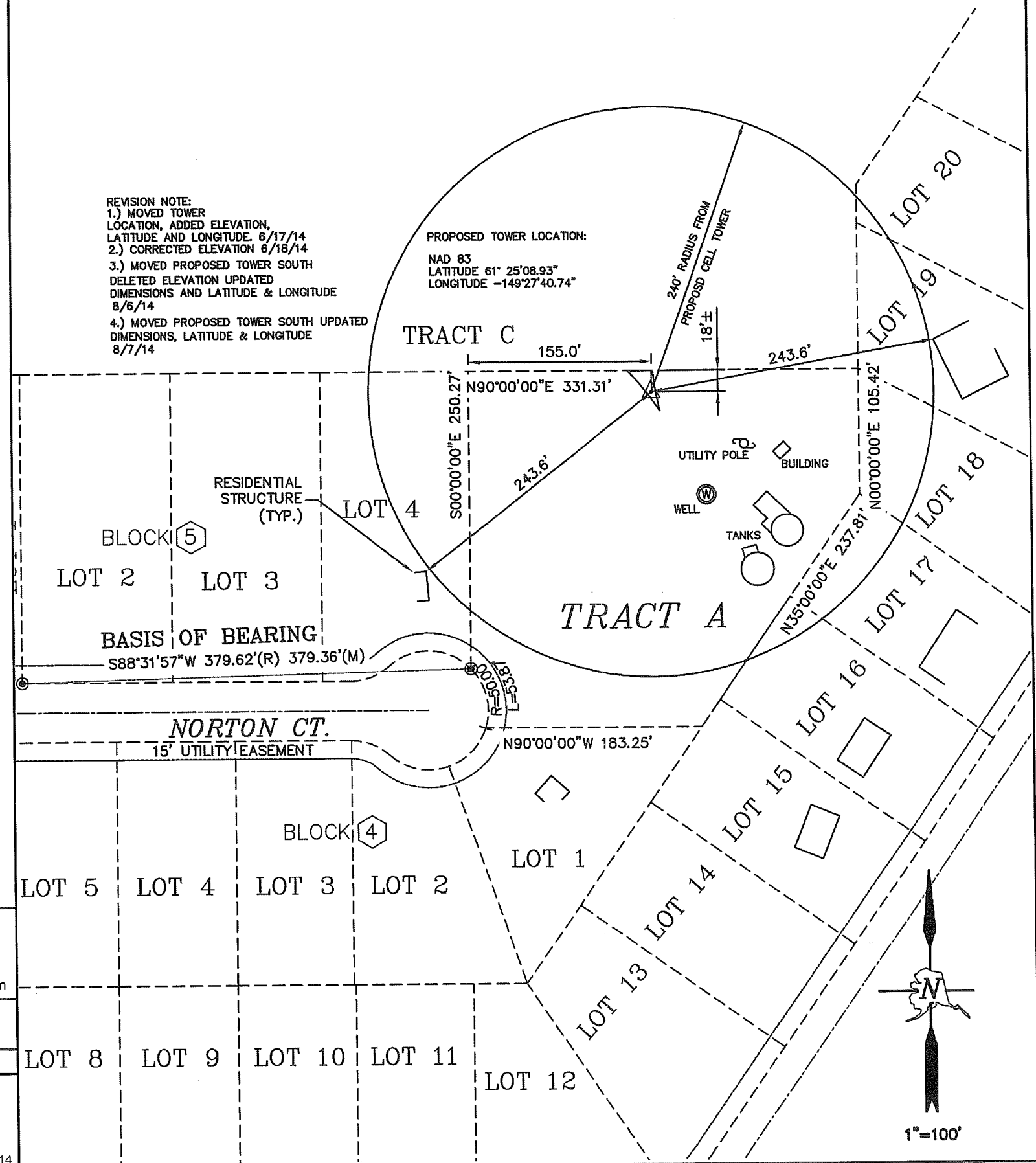


NOTES:

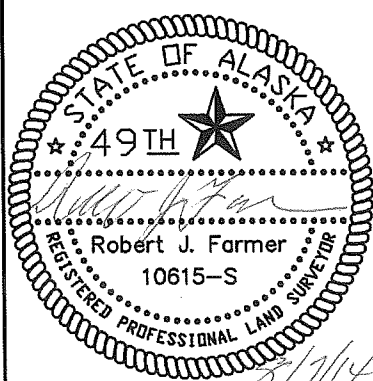
1. ALL PARCEL DIMENSIONS ARE RECORD UNLESS NOTED OTHERWISE
2. THE PURPOSE OF THIS SURVEY IS TO VERIFY FEASIBILITY OF A PROPOSED CELL TOWER. THIS SURVEY DOES NOT DEPICT ALL IMPROVEMENTS LOCATED ON THIS PARCEL.
3. IT IS THE USERS RESPONSIBILITY TO DETERMINE THE EXISTENCE OF ANY EASEMENTS, COVENANTS, OR RESTRICTIONS WHICH DO NOT APPEAR ON THE RECORDED PLAT.
4. THIS DOCUMENT DOES NOT CONSTITUTE A BOUNDARY SURVEY AND IS SUBJECT TO ANY INACCURACIES THAT A SUBSEQUENT BOUNDARY SURVEY MAY DISCLOSE
5. THIS SURVEY PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT.

REVISION NOTE:
 1.) MOVED TOWER LOCATION, ADDED ELEVATION, LATITUDE AND LONGITUDE, 6/17/14
 2.) CORRECTED ELEVATION 6/18/14
 3.) MOVED PROPOSED TOWER SOUTH DELETED ELEVATION UPDATED DIMENSIONS AND LATITUDE & LONGITUDE 8/6/14
 4.) MOVED PROPOSED TOWER SOUTH UPDATED DIMENSIONS, LATITUDE & LONGITUDE 8/7/14

PROPOSED TOWER LOCATION:
 NAD 83
 LATITUDE 61° 25'08.93"
 LONGITUDE -149°27'40.74"



LEGEND:
 (M)=MEASURED DATA
 (R)=RECORD DATA PER NORTH WOODS SUBDIVISION PLAT #79-245
 △=PROPOSED TOWER
 TYP=TYPICAL



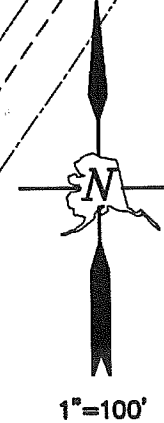
NORTON COURT SITE SURVEY

ARE
 Engineers : Planners : Surveyors

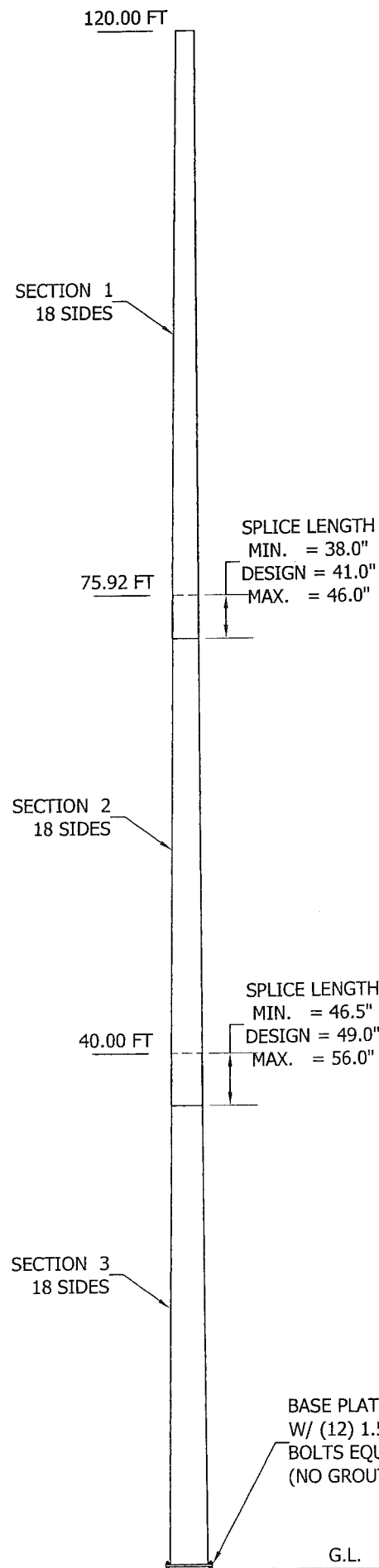
ALASKA RIM ENGINEERING, INC.
 9131 E. FRONTAGE ROAD, SUITE 1
 PH: (907)745-0222 : FAX: (907)746-0222
 EMAIL: akrim@alaskarim.com : WEB: www.alaskarim.com

WO: 1400405	FB:14-07
PAGE: 1 of 1	
SCALE: 1"=100'	FILE: 1400405SP

I HEREBY CERTIFY THAT A SITE SURVEY WAS PERFORMED UNDER MY DIRECTION ON THE FOLLOWING DESCRIBED PROPERTY: NORTH WOODS SUBDIVISION, TRACT A, PLAT No. 79-195, REFILED AS 79-245, ANCHORAGE RECORDING DISTRICT, ANCHORAGE, ALASKA. SURVEYED ON THE 3rd OF JUNE, 2014.



Aug/19/2014 3:24:34 PM
w:\Engineering\Work\0211351\211351.dwg



DESIGN LOAD		
DESIGN WIND LOAD PER ANSI/TIA-222-G USING THE FOLLOWING DESIGN CRITERIA: BASIC WIND SPEED (NO ICE): 130 MPH ULTIMATE WIND SPEED PER ASCE 7-10 BASIC WIND SPEED (W/ ICE): 60 MPH DESIGN ICE THICKNESS: 0.25" STRUCTURE CLASS: II EXPOSURE CATEGORY: B TOPOGRAPHIC CATEGORY: 1 EARTHQUAKE SPECTRAL RESPONSE ACCELERATION, S _s : 1.50 THIS POLE IS DESIGNED TO SUPPORT THE FOLLOWING LOADS:		
ELEVATION (FT)	ANTENNA LOAD	LINE SIZE
118.0	(6)APX16DWV-16DWVS-E-A20 PANELS & (3)RRUS ON A 12 FT. LOW PROFILE MOUNT WITH TOP RAILS	(24)1-1/4 in.
108.0	(6)APX16DWV-16DWVS-E-A20 PANELS & (3)RRUS ON A 12 FT. LOW PROFILE MOUNT WITH TOP RAILS	(24)1-1/4 in.
99.0	(1)2 FT. STANDARD DISH [0]	(1)1/2 in.
89.0	(6)APX16DWV-16DWVS-E-A20 PANELS & (3)RRUS ON A 12 FT. LOW PROFILE MOUNT WITH TOP RAILS	(24)1-1/4 in.
83.0	(1)2 FT. STANDARD DISH [0]	(1)1/2 in.

SEE STRESS ANALYSIS FOR A COMPLETE LISTING OF ALL LOADS ON STRUCTURE.

BASE PLATE 2.000" X 45.500" Round
W/ (12) 1.500" DIA. X 74" LONG ANCHOR
BOLTS EQUALLY SPACED ON 41.750" B.C.
(NO GROUT REQUIRED.)

MAXIMUM FACTORED REACTIONS	
DOWNLOAD =	31.0 KIPS
SHEAR =	14.0 KIPS
O.T.M =	1257.4 FT-KIPS

GENERAL NOTES

- ROHN PRODUCTS POLE DESIGNS CONFORM TO ANSI/TIA-222-G UNLESS OTHERWISE SPECIFIED UNDER POLE DESIGN LOADING.
- THE DESIGN LOADING CRITERIA INDICATED HAS BEEN PROVIDED TO ROHN. THE DESIGN LOADING CRITERIA HAS BEEN ASSUMED TO BE BASED ON SITE-SPECIFIC DATA IN ACCORDANCE WITH ANSI/TIA-222-G AND MUST BE VERIFIED BY OTHERS PRIOR TO INSTALLATION.
- ANTENNAS AND LINES LISTED IN POLE DESIGN LOADING TABLE ARE PROVIDED BY OTHERS UNLESS OTHERWISE SPECIFIED.
- POLE MEMBER DESIGN DOES NOT INCLUDE STRESSES DUE TO ERECTION SINCE ERECTION EQUIPMENT AND CONDITIONS ARE UNKNOWN. DESIGN ASSUMES COMPETENT AND QUALIFIED PERSONNEL WILL ERECT THE POLE.
- WORK SHALL BE IN ACCORDANCE WITH ANSI/TIA-222-G, "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES".
- FIELD CONNECTIONS SHALL BE BOLTED. NO FIELD WELDS SHALL BE ALLOWED.
- STRUCTURAL BOLTS SHALL CONFORM TO ASTM A-325, EXCEPT WHERE NOTED
- A NUT LOCKING DEVICE SHALL BE PROVIDED FOR ALL STRUCTURAL BOLTS ON THE POLE.
- STRUCTURAL STEEL AND CONNECTION BOLTS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION, IN ACCORDANCE WITH ANSI/TIA-222-G.
- ALL HIGH STRENGTH BOLTS ARE TO BE TIGHTENED TO A "SNUGTIGHT" CONDITION AS DEFINED IN THE JUNE 23, 2000, AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". NO OTHER MINIMUM BOLT TENSION OR TORQUE VALUES ARE REQUIRED.
- PURCHASER SHALL VERIFY THE INSTALLATION IS IN CONFORMANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR OBSTRUCTION MARKING AND LIGHTING.
- TOLERANCE ON POLE STEEL HEIGHT IS EQUAL TO PLUS 1% OR MINUS 1/2%.
- DESIGN ASSUMES THAT, AS A MINIMUM, MAINTENANCE AND INSPECTION WILL BE PERFORMED OVER THE LIFE OF THE STRUCTURE IN ACCORDANCE WITH ANSI/TIA-222-G.
- DESIGN ASSUMES LEVEL GRADE AT POLE SITE.
- FOUNDATIONS SHALL BE DESIGNED TO SUPPORT THE REACTIONS SHOWN FOR THE CONDITIONS EXISTING AT THE SITE.
- DESIGN ASSUMES ALL PANEL ANTENNAS WITH MOUNTS ARE MOUNTED SYMMETRICALLY.
- DESIGN ASSUMES ALL TRANSMISSION LINES ARE ROUTED INTERNALLY.
- POLE SHAFT CONFORMS TO ASTM A572 GRADE 65. POLE BASE PLATE STEEL CONFORMS TO ASTM A572 GRADE 50. POLE ANCHOR BOLTS CONFORM TO ASTM F1554 GRADE 105.

SECTION SCHEDULE						
SEC.	LENGTH (FT)	DIAMETER (IN)		WALL THICK (IN)	F _y (KSI)	WEIGHT (KIPS)
		BOT.	TOP			
1	47.50	25.855	18.000	0.1875	65.0	2.251
2	40.00	31.357	24.743	0.1875	65.0	2.427
3	40.00	36.750	30.136	0.2500	65.0	4.075

FOR POLYGONAL POLES, DIAMETER IS MEASURED ACROSS FLATS

FILE NO. 211351				
REVISIONS				
REV.	DESCRIPTION	DWN	CHK	APP
 PO BOX 5999 PEORIA, IL 61601-5999 TOLL FREE 800-727-ROHN				
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.				
ALASKA WIRELESS NETWORK 120' TAPERED STEEL POLE DESIGN NORTON COURT, AK				
DWN:	DWG	CHK'D:	HA	DATE: Aug/19/2014
ENGR:	HA	SHEET #:		
PRJ. ENGR:	DWG	PRJ. MANG'R:		
DRAWING NO: 211351-01-D1				REV: 0

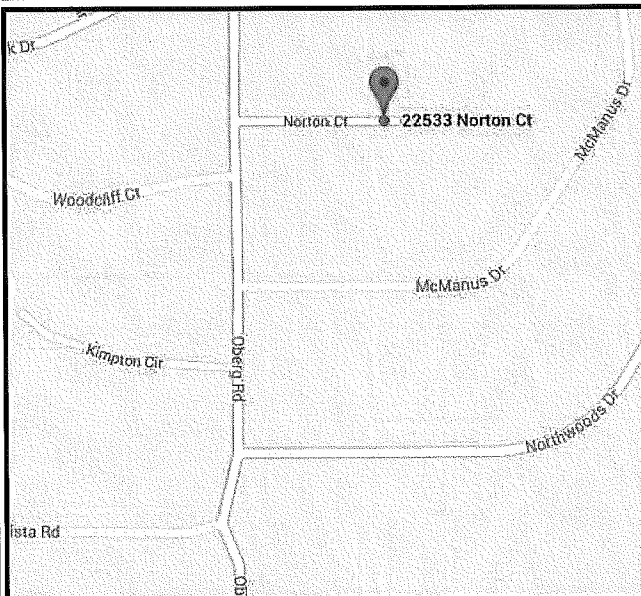
SITE NAME : NORTON COURT
PROJECT DESCRIPTION: NEW SITE BUILD
TOWER TYPE: 120' MONOPOLE
SITE ADDRESS: 22533 NORTON COURT
(e911 ADDRESS TBD) CHUGIAK, AK 99567
(ANCHORAGE BOROUGH)
JURISDICTION: ANCHORAGE BOROUGH
AREA OF CONSTRUCTION: 1,600 SQ. FEET
LEGAL DESCRIPTION: T15N, R1W, S4, SEWARD
MERIDIAN SW
PARCEL ID#: 03504014

PROJECT INFORMATION

LATITUDE N 61° 25' 08.99" (NAD '83)*
LONGITUDE W 149° 27' 40.79" (NAD '83)*
GROUND ELEVATION: 290.8 FEET (NAD '88)*

* INFORMATION PROVIDED BY ALASKA RIM ENGINEERING, INC. IN THE FORM OF A SURVEY DATED JUNE 18, 2014

TOWER COORDINATES



LOCATION MAP

FROM ANCHORAGE, TRAVEL NE ON AK-1 FOR APPROX. 20MI. TAKE THE EXIT TOWARD PETERS CREEK AND TURN LEFT ONTO VOYLES BLVD. TAKE THE 2ND LEFT ONTO BILL STEPHENS DR/GLENWAY DR. CONTINUE ONTO GLENNWAY DR AND TRAVEL 0.2MI. CONTINUE ONTO OBERG RD AND TRAVEL 1.0MI. TURN RIGHT ONTO NORTON CT. SITE DRIVEWAY IS AT THE END OF THE CT. ON THE LEFT.

DRIVING DIRECTIONS

PROJECT INFORMATION:



SITE NAME: NORTON COURT

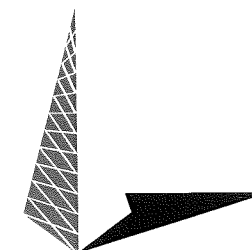
**22533 NORTON COURT
CHUGIAK, AK 99567
(ANCHORAGE BOROUGH)**

PLANS PREPARED FOR:



2000 E 88TH AVE.
ANCHORAGE, AK 99507
(907) 258-0050

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603
OFFICE: (919) 661-6351
www.tepgroup.net

REV	DATE	ISSUED FOR:
4	08-07-14	ZONING
3	08-06-14	ZONING
2	08-05-14	ZONING
1	08-04-14	ZONING
0	07-30-14	ZONING

DRAWN BY: CWA **CHECKED BY:** NMC

TOWER OWNER:

NAME: ALASKA WIRELESS NETWORK, LLC
ADDRESS: 6831 ARCTIC BLVD.
CITY, STATE, ZIP: ANCHORAGE, AK 99518
CONTACT: CYNTHIA COUGHLIN
PHONE: (907) 727-5533

SITE PROJECT MANAGER:

NAME: MARSH CREEK LLC
ADDRESS: 2000 E. 88TH AVE
CITY, STATE, ZIP: ANCHORAGE, AK 99507
CONTACT: LOUIS MANKA
PHONE: (907) 258-0050

CIVIL ENGINEER:

NAME: TOWER ENGINEERING PROFESSIONALS
ADDRESS: 326 TRYON ROAD
CITY, STATE, ZIP: RALEIGH, NC 27603
CONTACT: ANDREW T. HALDANE, P.E.
PHONE: (919) 661-6351

ELECTRICAL ENGINEER:

NAME: TOWER ENGINEERING PROFESSIONALS
ADDRESS: 326 TRYON ROAD
CITY, STATE, ZIP: RALEIGH, NC 27603
CONTACT: ANDREW T. HALDANE, P.E.
PHONE: (919) 661-6351

ORIGINAL SURVEYOR:

NAME: ALASKA RIM ENGINEERING, INC.
ADDRESS: 9131 E. FRONTAGE ROAD
STE 1
CITY, STATE, ZIP: PALMER, AK 99645
CONTACT: ROBERT J. FARMER, PLS
PHONE: (907) 745-0222

LAND OWNER:

NAME: AWWU
ADDRESS: 300 ARCTIC BLVD.
CITY, STATE, ZIP: ANCHORAGE, AK 99503
PHONE: (907) 564-2762

CONTACT INFORMATION

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING:

- INTERNATIONAL BUILDING CODE (2009 EDITION)
- INTERNATIONAL CODE COUNCIL
- ANSI/TIA/EIA-222-G
- ALASKA ADMINISTRATIVE CODE, TITLE 8, CH 70
- LOCAL BUILDING CODE (NO ADOPTED CODE)
- CITY/COUNTY ORDINANCES

CODE COMPLIANCE

UTILITIES:

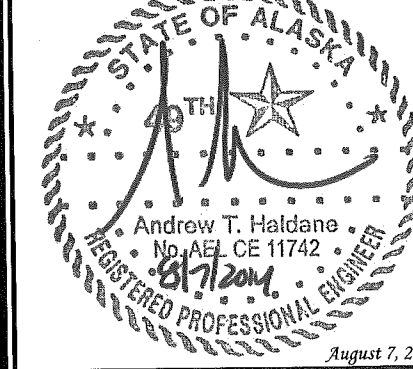
POWER COMPANY: MATANUSKA ELECTRIC ASSN.
CONTACT: MAIN OFFICE
PHONE: (907) 563-2161
METER # NEAR SITE: UNKNOWN

PHONE COMPANY:

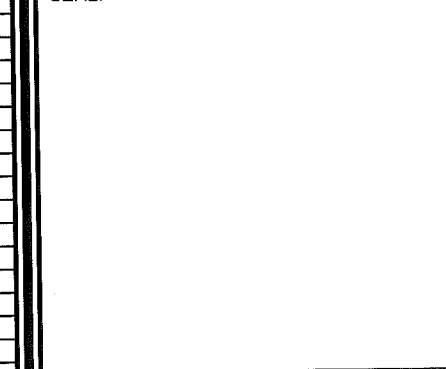
AWN OFFICE
CONTACT:
PHONE: (907) 727-5533
PED. # NEAR SITE: UNKNOWN

SHEET	DESCRIPTION	REV
T1	TITLE SHEET	4
N1	GENERAL NOTES	4
C1	SITE PLAN	4
C2	COMPOUND DETAIL	4
C3	TOWER ELEVATION	4
C4	FENCE DETAILS	4
L1	LANDSCAPING PLAN	4

SEAL:



SEAL:



SHEET NUMBER: T-1 **REVISION:** 4
TEP #56128.22080

INDEX OF SHEETS


GENERAL NOTES:

1. ALL REFERENCES TO OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED ALASKA WIRELESS NETWORK, OR ITS DESIGNATED REPRESENTATIVE.
2. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE OF ALASKA.
3. STRUCTURE IS DESIGNED IN ACCORDANCE WITH ANSI/TIA/EIA-222-G, 2005, FOR A 90 MPH 3-SECOND GUST WIND LOAD. THIS CONFORMS TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2009 EDITION.
4. WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2009 EDITION.
5. UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.
6. ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERCEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
7. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND IT'S COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
8. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATIONS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE PROCEDURES.
9. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
11. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE RESIDENT LEASING AGENT FOR APPROVAL.
12. BILL OF MATERIALS AND PART NUMBERS LISTED ON CONSTRUCTION DRAWINGS ARE INTENDED TO AID CONTRACTOR. CONTRACTOR SHALL VERIFY PARTS AND QUANTITIES WITH MANUFACTURER PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
13. ALL PERMITS THAT MUST BE OBTAINED ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
14. 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) ENGINEER.
15. THE CONTRACTOR SHALL REWORK (DRY, SCARIFY, ETC.) ALL MATERIAL NOT SUITABLE FOR SUBGRADE IN ITS PRESENT STATE. AFTER REWORKING, IF THE MATERIAL REMAINS UNSUITABLE, THE CONTRACTOR SHALL UNDERCUT THIS MATERIAL AND REPLACE WITH APPROVED MATERIAL. ALL SUBGRADES SHALL BE PROOFROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO PAVING. ANY SOFTER MATERIAL SHALL BE REWORKED OR REPLACED.
16. THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL PIPES, DITCHES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO MAINTAIN DRAINAGE STRUCTURE IN OPERABLE CONDITION.
17. ALL MATERIALS AND WORKMANSHIP SHALL BE WARRANTED FOR ONE YEAR FROM ACCEPTANCE DATE.
18. ALL BUILDING DIMENSIONS SHALL BE VERIFIED WITH THE PLANS (LATEST REVISION) PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE DISCOVERED. THE OWNER SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.

STRUCTURAL STEEL NOTES:


1. THE FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS AND MANUAL OF STEEL CONSTRUCTION, 13TH EDITION.
2. UNLESS OTHERWISE NOTED, ALL STRUCTURAL ELEMENTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - A. STRUCTURAL STEEL, ASTM DESIGNATION A36 OR A992.
 - B. ALL BOLTS, ASTM A325 TYPE I GALVANIZED HIGH STRENGTH BOLTS.
 - C. ALL NUTS, ASTM A563 CARBON AND ALLOY STEEL NUTS.
 - D. ALL WASHERS, ASTM F436 HARDENED STEEL WASHERS.
3. ALL CONNECTIONS NOT FULLY DETAILED ON THESE PLANS SHALL BE DETAILED BY THE STEEL FABRICATOR IN ACCORDANCE WITH AISC SPECIFICATION AND MANUAL OF STEEL CONSTRUCTION, 13TH EDITION
4. HOLES SHALL NOT BE FLAME CUT THRU STEEL UNLESS APPROVED BY THE ENGINEER.
5. HOT-DIP GALVANIZE ALL ITEMS UNLESS OTHERWISE NOTED, AFTER FABRICATION WHERE PRACTICABLE. GALVANIZING: ASTM A123, ASTM, A153/A153M OR ASTM A653/A653M, G90, AS APPLICABLE.
6. REPAIR DAMAGED SURFACES WITH GALVANIZING REPAIR METHOD AND PAINT CONFORMING TO ASTM A780 OR BY APPLICATION OF STICK OR THICK PASTE MATERIAL SPECIFICALLY DESIGNED FOR REPAIR OF GALVANIZING. CLEAN AREAS TO BE REPAIRED AND REMOVE SLAG FROM WELDS. HEAT SURFACES TO WHICH STICK OR PASTE MATERIAL IS APPLIED, WITH A TORCH TO A TEMPERATURE SUFFICIENT TO MELT THE METALLICS IN STICK OR PASTED; SPREAD MOLTEN MATERIAL UNIFORMLY OVER SURFACES TO BE COATED AND WIPE OFF EXCESS MATERIAL.
7. A NUT LOCKING DEVICE SHALL BE INSTALLED ON ALL PROPOSED AND/OR REPLACED BOLTS.
8. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH TO EXCLUDE THE THREADS FROM THE SHEAR PLANE.
9. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT BE AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
10. ALL ASSEMBLY BOLTS ARE TO BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED IN SECTION 8.1 OF THE AISC, "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", DATED JUNE 30, 2004.
11. FLAT WASHERS ARE TO BE INSTALLED WITH BOLTS OVER SLOTTED HOLES.
12. DO NOT OVER TORQUE ASSEMBLY BOLTS. GALVANIZING ON BOLTS, NUTS, AND STEEL PARTS ;MAY ACT AS A LUBRICANT, THUS OVER TIGHTENING MAY OCCUR AND MAY CAUSE BOLTS TO CRACK AND SNAP OFF.
13. PAL NUTS ARE TO BE INSTALLED AFTER NUTS ARE TIGHT AND WITH EDGE LIP OUT. PAL NUTS ARE NOT REQUIRED WHEN SELF-LOCKING NUTS ARE PROVIDED.
14. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
15. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) D1.1-2010 STRUCTURAL WELDING CODE - STEEL.

PLANS PREPARED FOR:



MARSHCREEK
2000 E. 88TH AVENUE
ANCHORAGE, AK 99507

PLANS PREPARED FOR:



AWN
Alaska Wireless Network
6831 ARCTIC BLVD
ANCHORAGE, AK 99518

PROJECT INFORMATION:

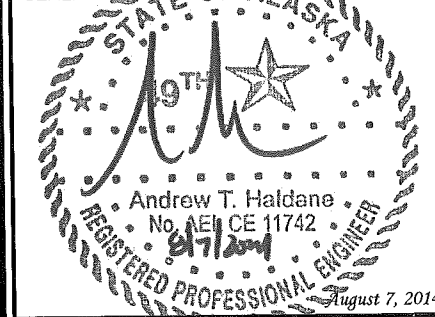
NORTON COURT
22533 NORTON COURT
CHUGIAK, AK 99567
(ANCHORAGE BOROUGH)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:



4	08-07-14	ZONING
3	08-06-14	ZONING
REV	DATE	ISSUED FOR:

DRAWN BY: KES CHECKED BY: NMC

SHEET TITLE:
GENERAL NOTES

SHEET NUMBER: N-1	REVISION: 4 TEP #56128.22080
-----------------------------	---

SITE COORDINATES

LATITUDE: N 61° 25' 08.99" (NAD '83)
 LONGITUDE: W 149° 27' 40.79" (NAD '83)
 GROUND ELEVATION: 290.8' (NAD '88)

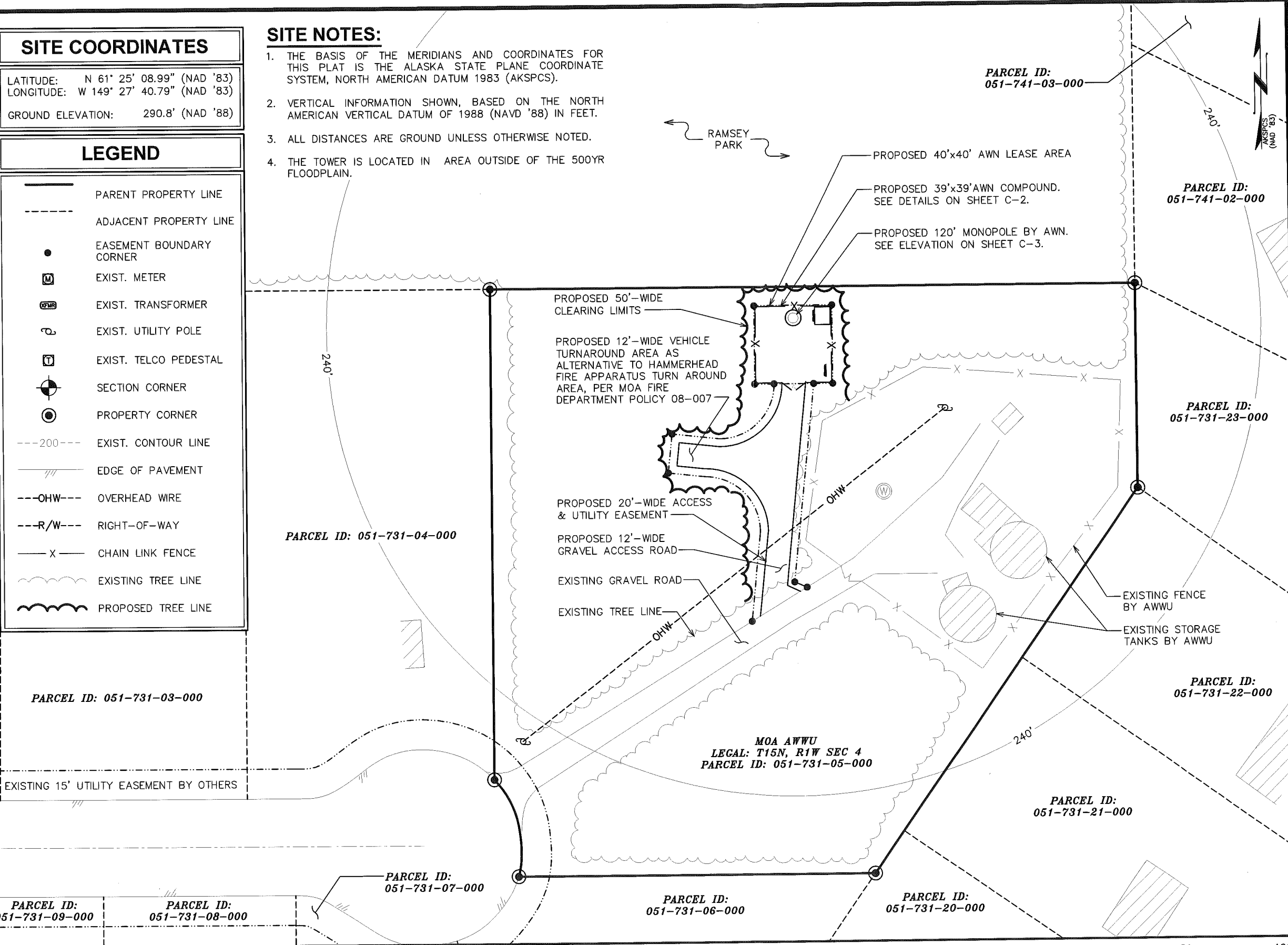
LEGEND

- PARENT PROPERTY LINE
- - - ADJACENT PROPERTY LINE
- EASEMENT BOUNDARY CORNER
- M EXIST. METER
- ⊕ EXIST. TRANSFORMER
- ⊕ EXIST. UTILITY POLE
- ⊕ EXIST. TELCO PEDESTAL
- ⊕ SECTION CORNER
- ⊕ PROPERTY CORNER
- - -200- - - EXIST. CONTOUR LINE
- ▨ EDGE OF PAVEMENT
- - -OHW- - - OVERHEAD WIRE
- - -R/W- - - RIGHT-OF-WAY
- X - CHAIN LINK FENCE
- ~ EXISTING TREE LINE
- ~ PROPOSED TREE LINE

SITE NOTES:

1. THE BASIS OF THE MERIDIANS AND COORDINATES FOR THIS PLAT IS THE ALASKA STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (AKSPCS).
2. VERTICAL INFORMATION SHOWN, BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88) IN FEET.
3. ALL DISTANCES ARE GROUND UNLESS OTHERWISE NOTED.
4. THE TOWER IS LOCATED IN AREA OUTSIDE OF THE 500YR FLOODPLAIN.

RAMSEY PARK



PARCEL ID: 051-741-03-000

PARCEL ID: 051-741-02-000

PARCEL ID: 051-731-23-000

PARCEL ID: 051-731-04-000

PARCEL ID: 051-731-03-000

PARCEL ID: 051-731-22-000

PARCEL ID: 051-731-21-000

PARCEL ID: 051-731-07-000

PARCEL ID: 051-731-06-000

PARCEL ID: 051-731-20-000

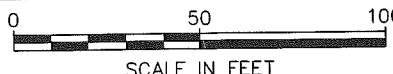
MOA AWWU
 LEGAL: T15N, R1W SEC 4
 PARCEL ID: 051-731-05-000

PARCEL ID: 051-731-09-000

PARCEL ID: 051-731-08-000

SITE PLAN

SCALE: 1" = 50'



PLANS PREPARED FOR:

2000 E. 88TH AVENUE
 ANCHORAGE, AK 99507

PLANS PREPARED FOR:

6831 ARCTIC BLVD
 ANCHORAGE, AK 99518

PROJECT INFORMATION:

NORTON COURT

22533 NORTON COURT
 CHUGIAK, AK 99567
 (ANCHORAGE BOROUGH)

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
 326 TRYON ROAD
 RALEIGH, NC 27603
 OFFICE: (919) 661-6351
 www.tepgroup.net

SEAL:

4	08-07-14	ZONING
3	08-06-14	ZONING
REV	DATE	ISSUED FOR:

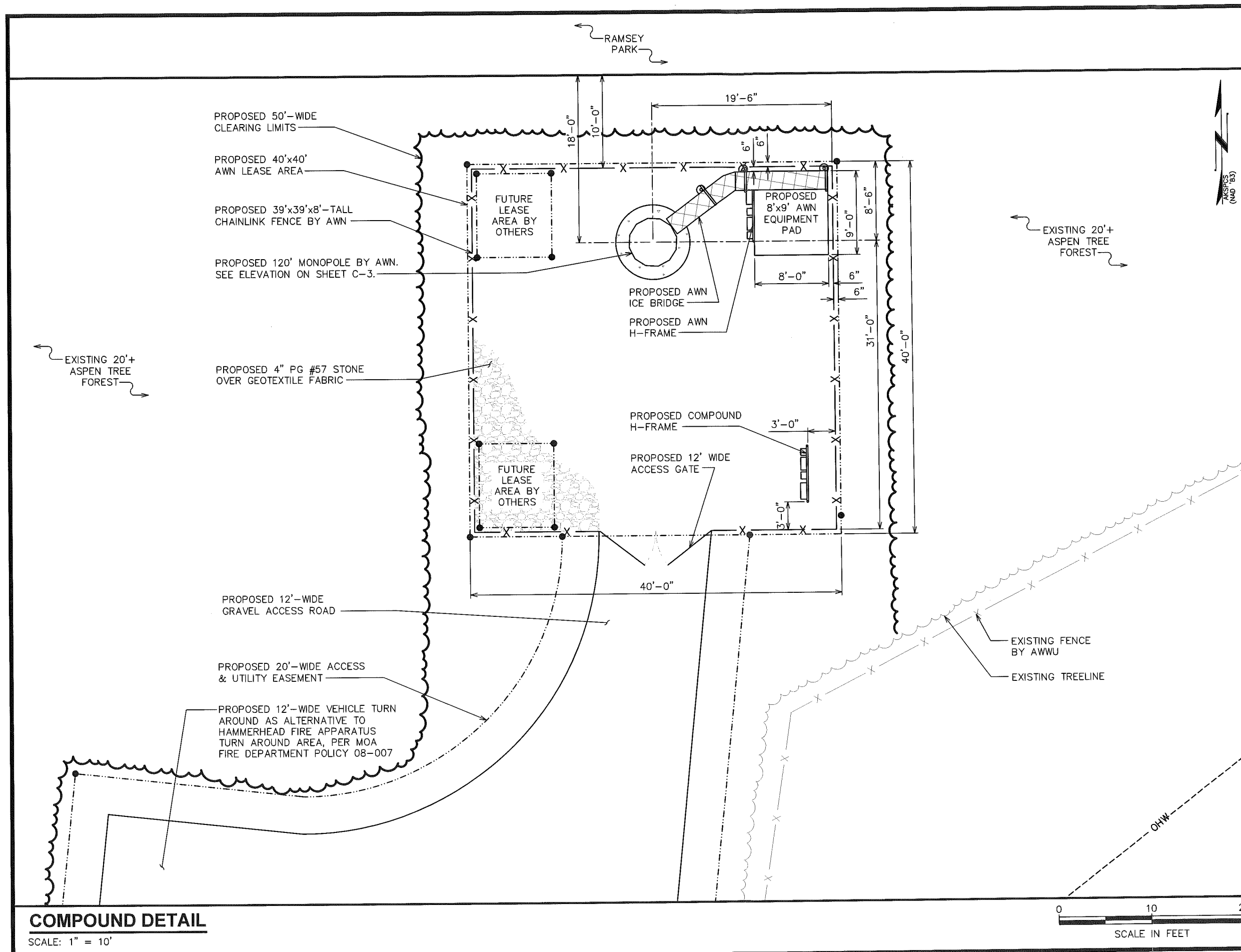
DRAWN BY: KES CHECKED BY: NMC

SHEET TITLE:

SITE PLAN

SHEET NUMBER: **C-1** REVISION: **4**

TEP #56128.22080



PLANS PREPARED FOR:

MARSHCREEK
2000 E. 88TH AVENUE
ANCHORAGE, AK 99507

PLANS PREPARED FOR:

AWN
Alaska Wireless Network
6831 ARCTIC BLVD
ANCHORAGE, AK 99518

PROJECT INFORMATION:

NORTON COURT
22533 NORTON COURT
CHUGIAK, AK 99567
(ANCHORAGE BOROUGH)

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:

STATE OF ALASKA
19TH
Andrew T. Haldane
No. AEL CE 11742
REGISTERED PROFESSIONAL ENGINEER
August 7, 2014

4	08-07-14	ZONING
3	08-06-14	ZONING
REV	DATE	ISSUED FOR:

DRAWN BY: KES CHECKED BY: NMC

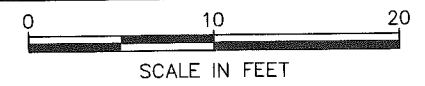
SHEET TITLE:

**COMPOUND
DETAIL**

SHEET NUMBER: **C-2** REVISION: **4**

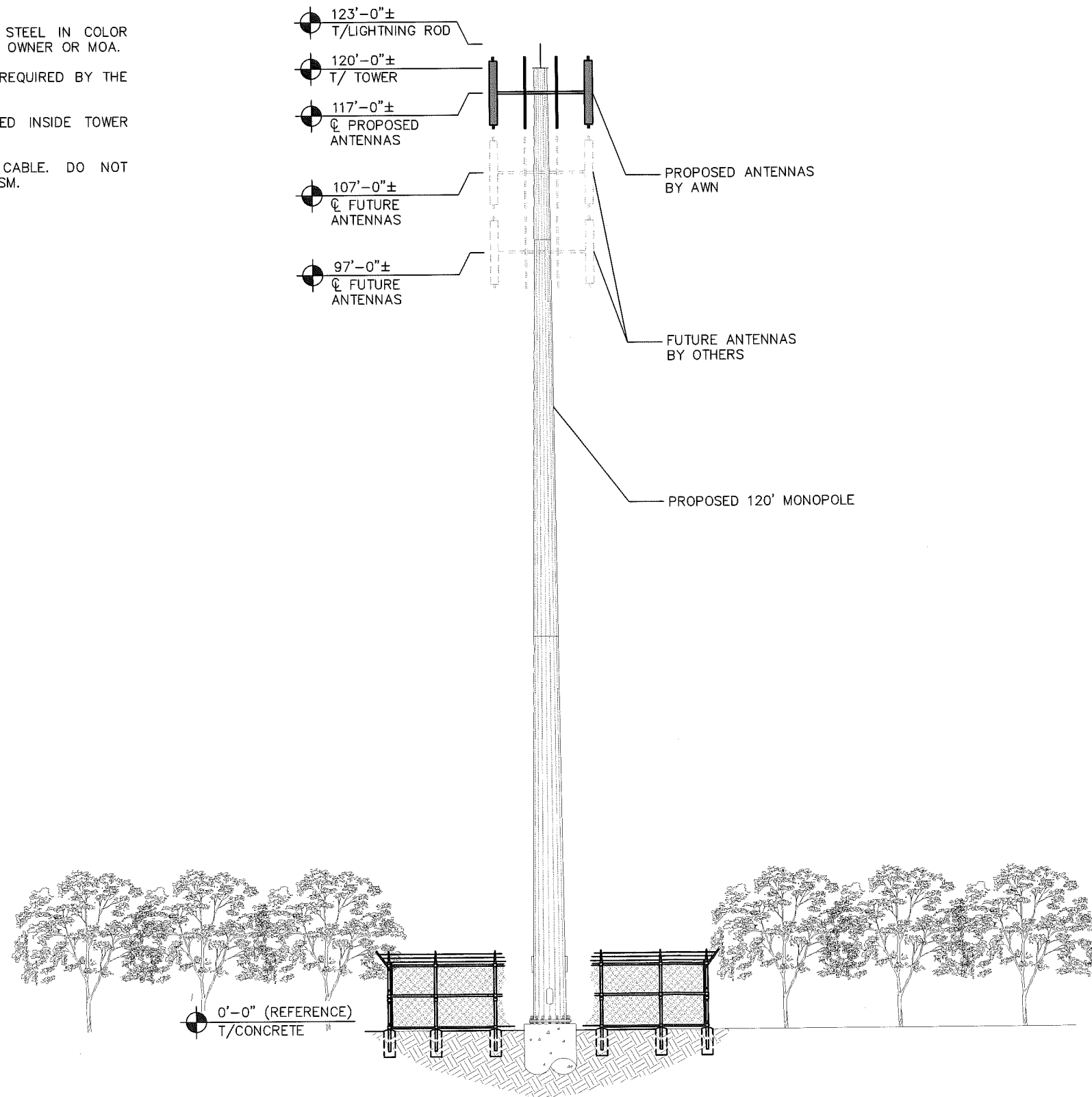
TEP #56128.22080

COMPOUND DETAIL
SCALE: 1" = 10'



NOTES:

1. TOWER SHALL BE GALVANIZED STEEL IN COLOR UNLESS OTHERWISE DIRECTED BY OWNER OR MOA.
2. TOWER SHALL BE LIT ONLY IF REQUIRED BY THE FAA.
3. PROPOSED COAX TO BE ROUTED INSIDE TOWER WITH HOISTING GRIPS.
4. TOWER TO INCLUDE SAFETY CABLE. DO NOT INCLUDE SAFETY CLIMB MECHANISM.



PLANS PREPARED FOR:

MARSHCREEK
 2000 E. 88TH AVENUE
 ANCHORAGE, AK 99507

PLANS PREPARED FOR:

AWN
 Alaska Wireless Network
 6831 ARCTIC BLVD
 ANCHORAGE, AK 99518

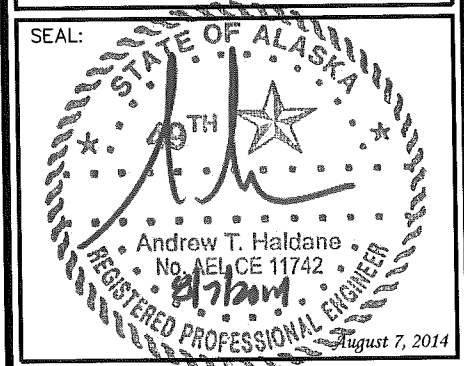
PROJECT INFORMATION:

NORTON COURT
 22533 NORTON COURT
 CHUGIAK, AK 99567
 (ANCHORAGE BOROUGH)

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
 326 TRYON ROAD
 RALEIGH, NC 27603
 OFFICE: (919) 661-6351
 www.tepgroup.net

SEAL:



4	08-07-14	ZONING
3	08-06-14	ZONING
REV	DATE	ISSUED FOR:

DRAWN BY: KES CHECKED BY: NMC

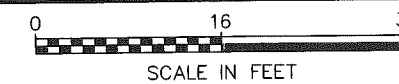
SHEET TITLE:

TOWER ELEVATION

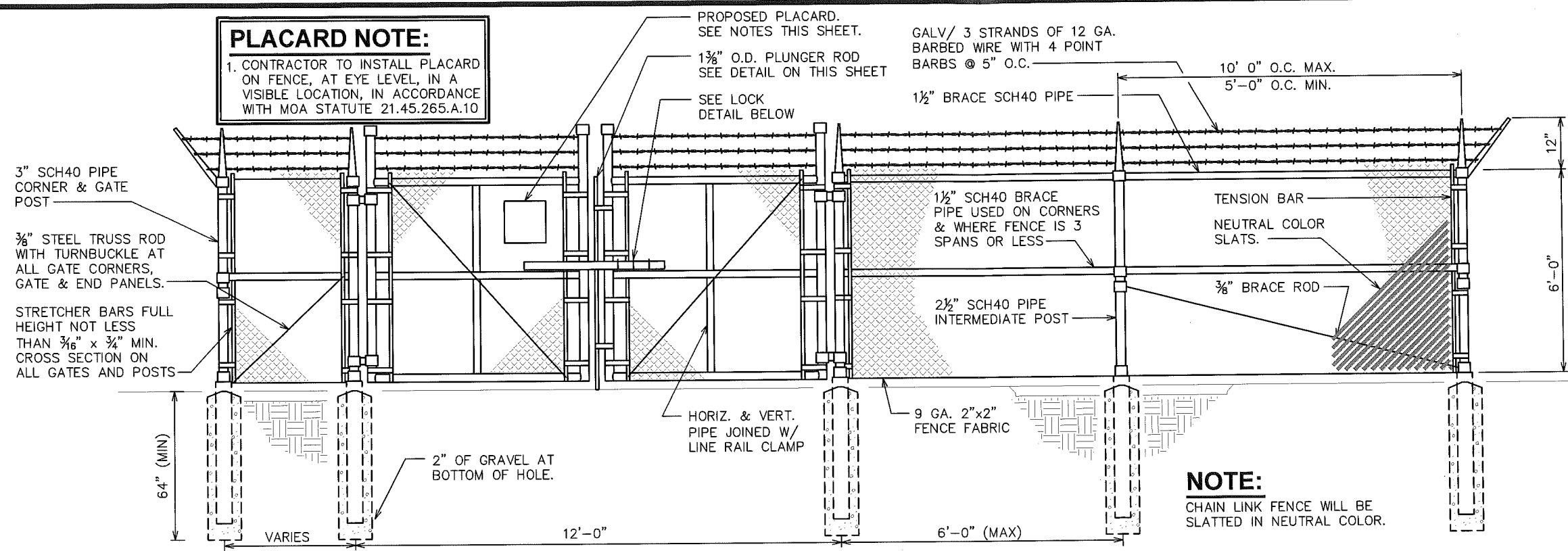
SHEET NUMBER:	REVISION:
C-3	4
	TEP #56128.22080

TOWER ELEVATION

SCALE: 1/8" = 1'-0"



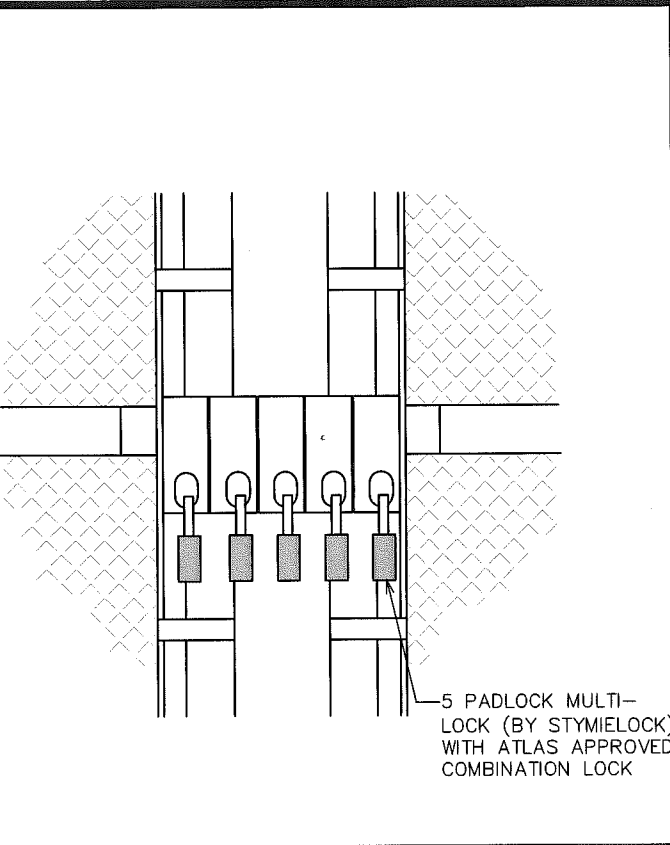
PLACARD NOTE:
 1. CONTRACTOR TO INSTALL PLACARD ON FENCE, AT EYE LEVEL, IN A VISIBLE LOCATION, IN ACCORDANCE WITH MOA STATUTE 21.45.265.A.10



NOTE:
 CHAIN LINK FENCE WILL BE SLATTED IN NEUTRAL COLOR.

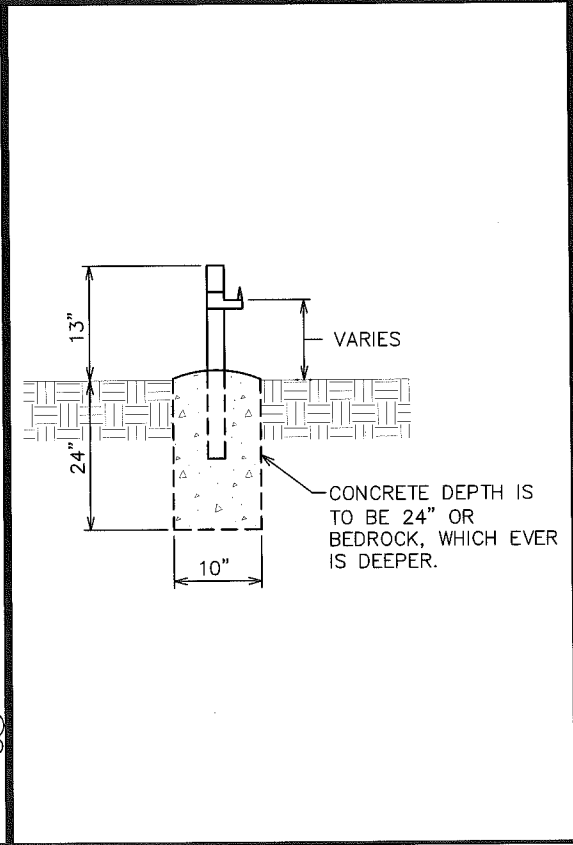
TYPICAL FENCE ELEVATION

SCALE: N.T.S.



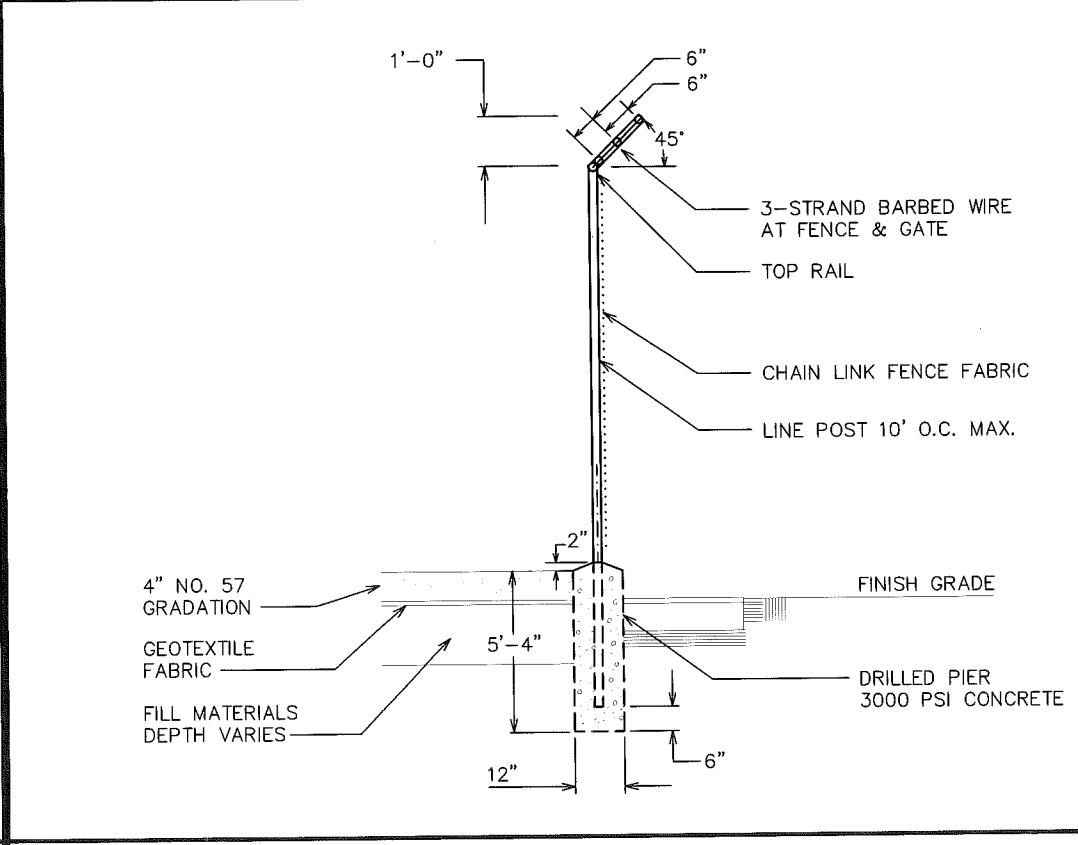
GATE LOCK DETAIL

SCALE: N.T.S.



GATE STOP/KEEPER DETAIL

SCALE: N.T.S.



FENCE / BARBED WIRE ARM DETAIL

SCALE: N.T.S.

PLANS PREPARED FOR:

 2000 E. 88TH AVENUE
 ANCHORAGE, AK 99507

PLANS PREPARED FOR:

 6831 ARCTIC BLVD
 ANCHORAGE, AK 99518

PROJECT INFORMATION:
NORTON COURT
 22533 NORTON COURT
 CHUGIAK, AK 99567
 (ANCHORAGE BOROUGH)

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
 326 TRYON ROAD
 RALEIGH, NC 27603
 OFFICE: (919) 661-6351
 www.tepgroup.net

SEAL:

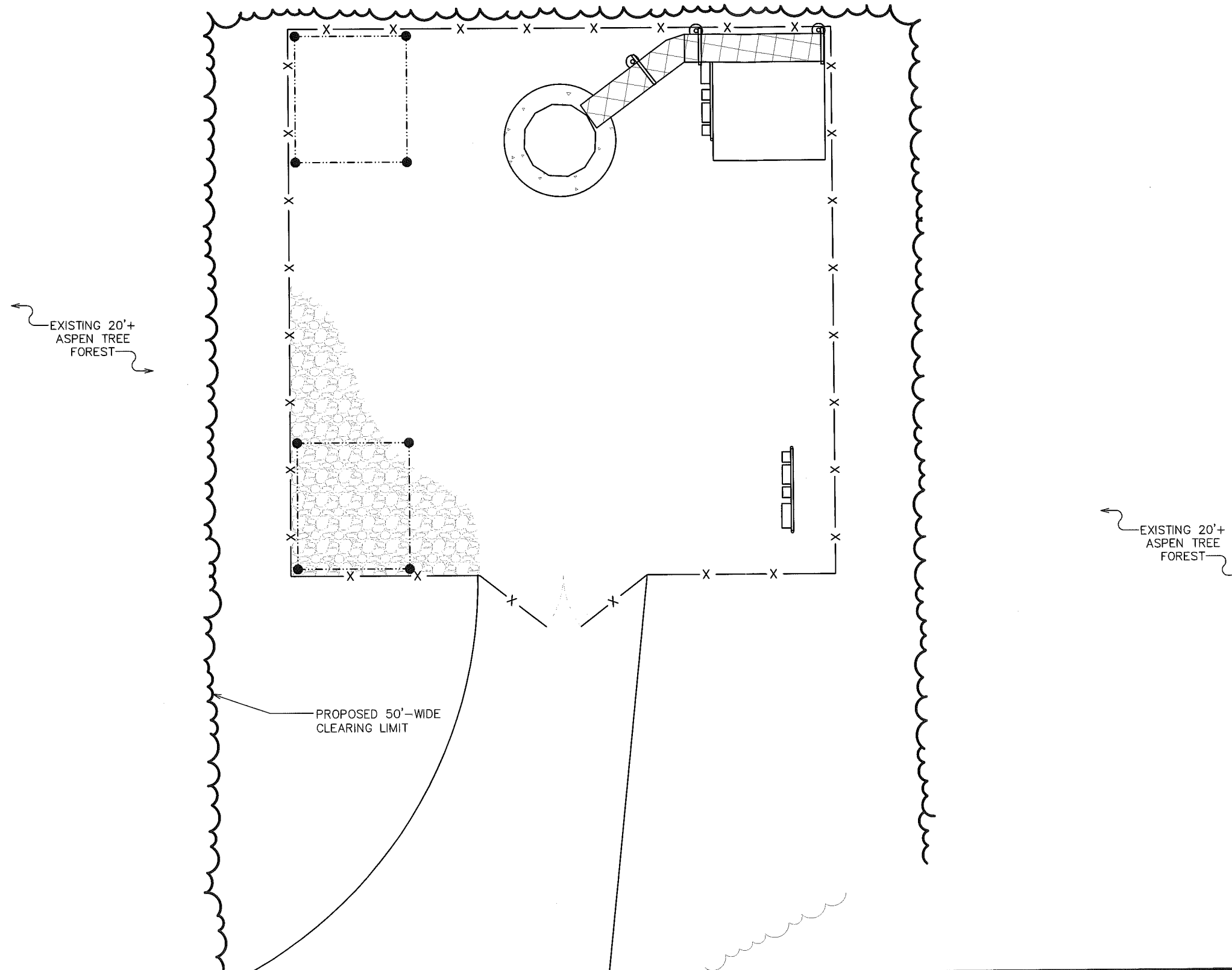
4	08-07-14	ZONING
3	08-06-14	ZONING
REV	DATE	ISSUED FOR:


DRAWN BY: CWA CHECKED BY: NMC


SHEET TITLE:
FENCE DETAILS

SHEET NUMBER: **C-4** REVISION: **4**
 TEP #56128.22080

NOTE:
 LANDSCAPING IS NOT REQUIRED DUE TO INABILITY
 TO SEE SITE FROM NEIGHBORING PARCEL OR ROAD.



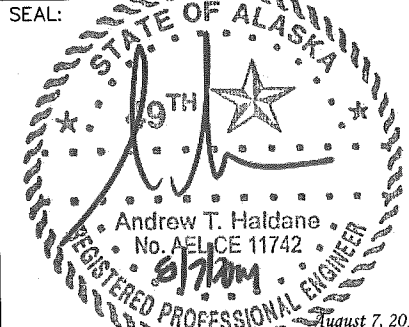
PLANS PREPARED FOR:
 **MARSHCREEK**
 2000 E. 88TH AVENUE
 ANCHORAGE, AK 99507

PLANS PREPARED FOR:
 **AWN**
 Alaska Wireless Network
 6831 ARCTIC BLVD
 ANCHORAGE, AK 99518

PROJECT INFORMATION:
NORTON COURT
 22533 NORTON COURT
 CHUGIAK, AK 99567
 (ANCHORAGE BOROUGH)

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
 326 TRYON ROAD
 RALEIGH, NC 27603
 OFFICE: (919) 661-6351
 www.tepgroup.net

SEAL:


4	08-07-14	ZONING
3	08-06-14	ZONING
REV	DATE	ISSUED FOR:

DRAWN BY: KES CHECKED BY: NMC

SHEET TITLE:
LANDSCAPING PLAN

SHEET NUMBER: **L-1** REVISION: **4**
 TEP #56128.22080

LANDSCAPING PLAN
 SCALE: 1/8" = 1'-0"

400 m

Map 1 - Drive Test Results

Categorized RSCP:A1		
■	-140,-115	(9) (0.24%)
■	-115,-105	(505) (13.48%)
■	-105,-95	(1836) (49%)
■	-95,-85	(777) (20.74%)
■	-85,-75	(412) (11%)
■	-75,0	(208) (5.55%)

