

GENERAL NOTES:

1. ALL REFERENCES TO TOWER OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED ATLAS TOWER 1, LLC OR IT'S 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 MICHIGAN.
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, 2015 EDITION.
4. WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2015 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 ENSURE 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 ON THE PROPERTY IS RESTRICTED AND CONTROLLED. THE CONTRACTORS SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY INCLUDING MATERIALS DELIVERY AND ACCESS WITH PROPERTY OWNER. ADDITIONALLY, THE GATE(S) MUST BE CLOSED AND LOCKED EACH TIME THE CONTRACTORS ENTER THE PROPERTY, GATE(S) MUST REMAIN CLOSED DURING ALL WORK. WHEN CONTRACTORS LEAVE THE PROPERTY THE GATE(S) MUST BE SECURED WITH THE LOCKS, THE GATE CABLE MUST BE LOCKED, AND THE PYLON MUST BE PLACED IN THE CENTER OF THE CABLE.
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 IT 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 SHALL EXERCISE EXTREME CAUTION IN DIGGING, DRILLING, EXCAVATING, ETC. ON THE PROPERTY. ESPECIALLY SENSITIVE IS WORK IN AND NEAR THE 10' WIDE UTILITY EASEMENT AND BUILDINGS. THERE IS EXISTING INFRASTRUCTURE IN THIS AREA (UNDERGROUND UTILITIES, POWER LINES, WATER LINES, PUMPS, PIPES, WIRES, CISTERNS, IRRIGATION, PITS, DITCHES, DRAINAGE STRUCTURES, ETC.). THE PROPERTY OWNER MUST BE NOTIFIED IN ADVANCE OF ALL SUCH WORK AND MAY BE ON SITE FOR SUCH WORK. THE CONTRACTOR IS REQUIRED TO MAINTAIN AND PROTECT ALL EXISTING INFRASTRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE BY FAILURE TO MAINTAIN THE EXISTING INFRASTRUCTURE IN OPERABLE CONDITION. THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL EXISTING INFRASTRUCTURE AND ADDED STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTED BY THE TOWER OWNER AND THE PROPERTY OWNER.
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:

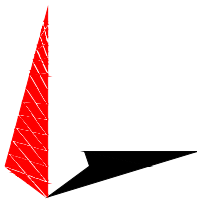
1. THE FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATION FOR MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN, 9TH EDITION.
2. UNLESS OTHERWISE NOTED, ALL STURCTURAL ELEMENTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - A. STRUCTURAL STEEL, ASTM DESIGNATION A36 OR A992 GR50.
 - 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 SPECIFICATIONS FOR MANUAL OF STEEL CONSTRUCTION, 14TH EDITION.
4. HOLES SHALL NOT BE FLAME CUT THRU STEEL UNLESS APPROVED BY THE ENGINEER.
5. HOT-DIP GALVANIZE ALL ITEMS ULESS 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 THICH PASTED 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 AN/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 AND ANCHOR 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.

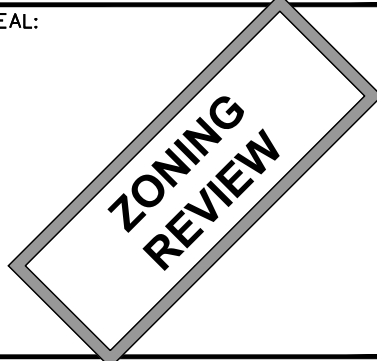
PROJECT INFORMATION:
LAKE LEELANAU - PRICE
 E DUCK LAKE RD
 LAKE LEELANAU, MI 49653
 (LEELANAU COUNTY)

PLANS PREPARED FOR:

 Office: (888) 609-9596

PLANS PREPARED FOR:

 3002 BLUFF ST, SUITE 300
 BOULDER, CO 80302
 Office: (888) 609-9596

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
 500 E. 84TH AVE, SUITE C10
 THORNTON, CO 80229
 OFFICE: (303) 566-9914
 www.tepgroup.net

SEAL:


0	08-17-23	ZONING
REV	DATE	ISSUED FOR:

DRAWN BY: AUW CHECKED BY: KES

SHEET TITLE:
GENERAL NOTES

SHEET NUMBER: **N-1** REVISION: **0**
 TEP#:333146.874797


NOTE:

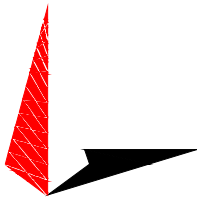
SITE LAYOUT WAS PREPARED USING AERIAL IMAGERY FROM GOOGLE EARTH AND GIS INFORMATION FROM LEELANAU COUNTY. FOR CORRECTIVE ACTION PLEASE CONTACT TOWER ENGINEERING PROFESSIONALS.


PROJECT INFORMATION:
LAKE LEELANAU - PRICE
 E DUCK LAKE RD
 LAKE LEELANAU, MI 49653
 (LEELANAU COUNTY)

PLANS PREPARED FOR:

 Office: (888) 609-9596

PLANS PREPARED FOR:

 USA • INTERNATIONAL
 3002 BLUFF ST, SUITE 300
 BOULDER, CO 80302
 Office: (888) 609-9596

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
 500 E. 84TH AVE, SUITE C10
 THORNTON, CO 80229
 OFFICE: (303) 566-9914
 www.tepgroup.net

SEAL:



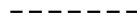










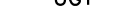









0	08-17-23	ZONING
REV	DATE	ISSUED FOR:

DRAWN BY: AUW | CHECKED BY: KES

SHEET TITLE:
AREA PLAN

SHEET NUMBER: **Z-1** | REVISION: **0**
 TEP#: 333146.874797

LEGEND

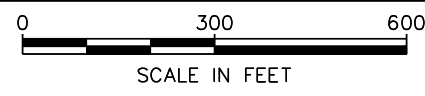
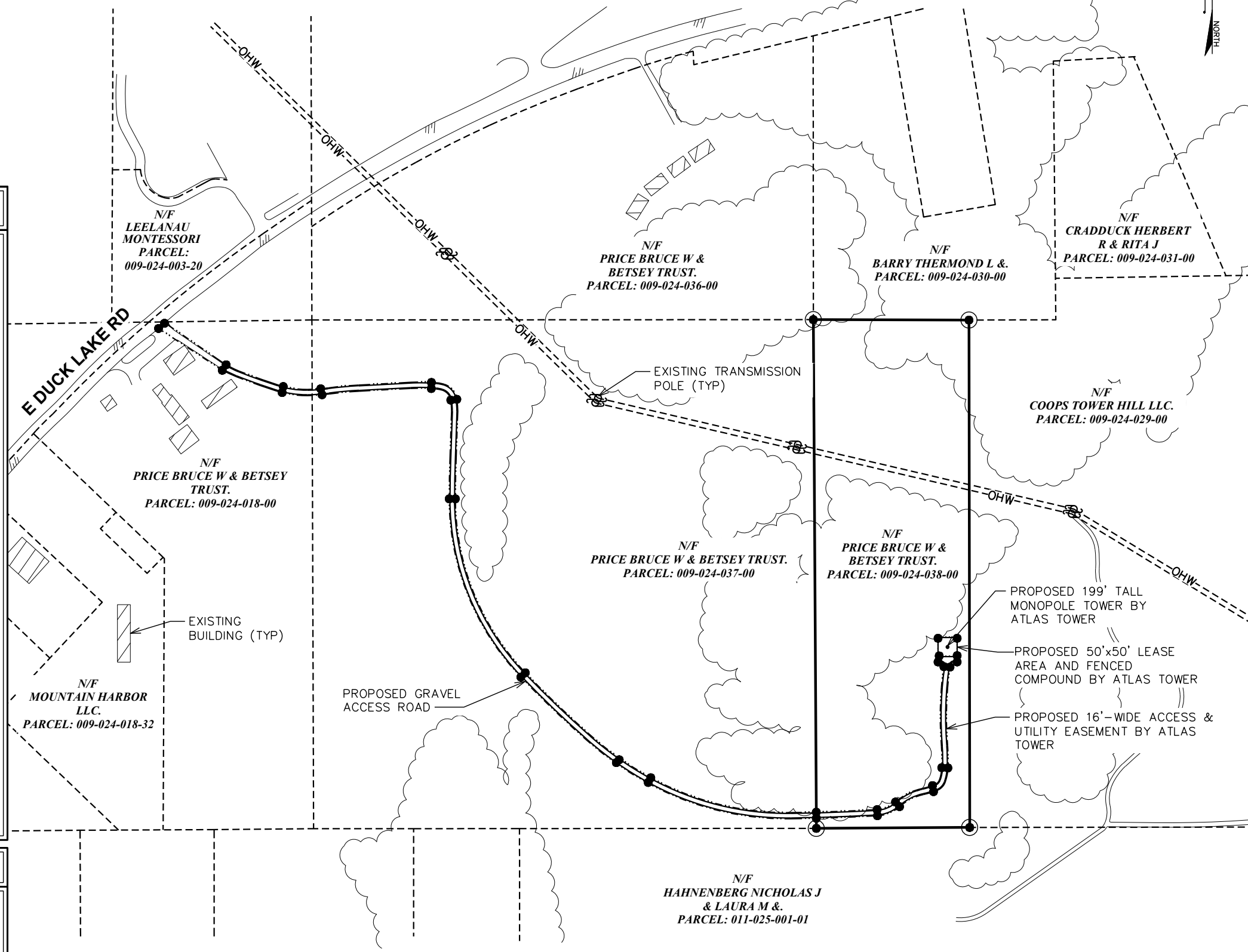
-  EXIST. PROPERTY LINE
-  ADJ. PROPERTY LINE
-  PROPERTY CORNER
-  EXIST. UTILITY POLE
-  TRAFFIC SIGNAL
-  TRANSFORMER
-  RIGHT-OF-WAY
-  OVERHEAD WIRE
-  UNDERGROUND WIRE
-  UNDERGROUND GAS
-  UNDERGROUND FIBER
-  UNDERGROUND TELCO
-  WATER PIPE
-  EDGE OF PAVEMENT
-  LEASE AREA/EASMENT CORNER
-  LIGHT POLE
-  FIRE HYDRANT
-  ELECTRICAL PULL BOX
-  IRRIGATION CONTROL VALVE
-  GAS METER
-  WATER METER
-  WATER VALVE

SITE COORDINATES

LATITUDE: N 44° 58' 58.836" (NAD '83)
 LONGITUDE: W 85° 41' 49.848" (NAD '83)

AREA PLAN

SCALE: 1" = 300'





PROPERTY LINE

PROPERTY LINE

PROPOSED 50'x50' LEASE AREA
AND FENCED COMPOUND BY ATLAS.
SEE DETAILS ON SHEET Z-3.

PROPOSED 199'-TALL
MONOPOLE TOWER BY ATLAS.
SEE ELEVATION ON SHEET Z-4.

346'-2"±

32'-2"±

57'-2"±

PROPOSED 12'-WIDE
GRAVEL ACCESS DRIVE.

PROPOSED 16'-WIDE ACCESS &
UTILITY EASEMENT BY ATLAS.

NOTE:

SITE LAYOUT WAS PREPARED USING
AERIAL IMAGERY FROM GOOGLE EARTH
AND GIS INFORMATION FROM LEELANAU
COUNTY. FOR CORRECTIVE ACTION
PLEASE CONTACT TOWER ENGINEERING
PROFESSIONALS.

SITE PLAN

SCALE: 1" = 40'



PROJECT INFORMATION:
**LAKE
LEELANAU - PRICE**
E DUCK LAKE RD
LAKE LEELANAU, MI 49653
(LEELANAU COUNTY)

PLANS PREPARED FOR:
WiBlue Inc.
Office: (888) 609-9596

PLANS PREPARED FOR:
**ATLAS
TOWER**
USA - INTERNATIONAL
3002 BLUFF ST, SUITE 300
BOULDER, CO 80302
Office: (888) 609-9596

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
500 E. 84TH AVE, SUITE C10
THORNTON, CO 80229
OFFICE: (303) 566-9914
www.tepgroup.net

SEAL:
**ZONING
REVIEW**

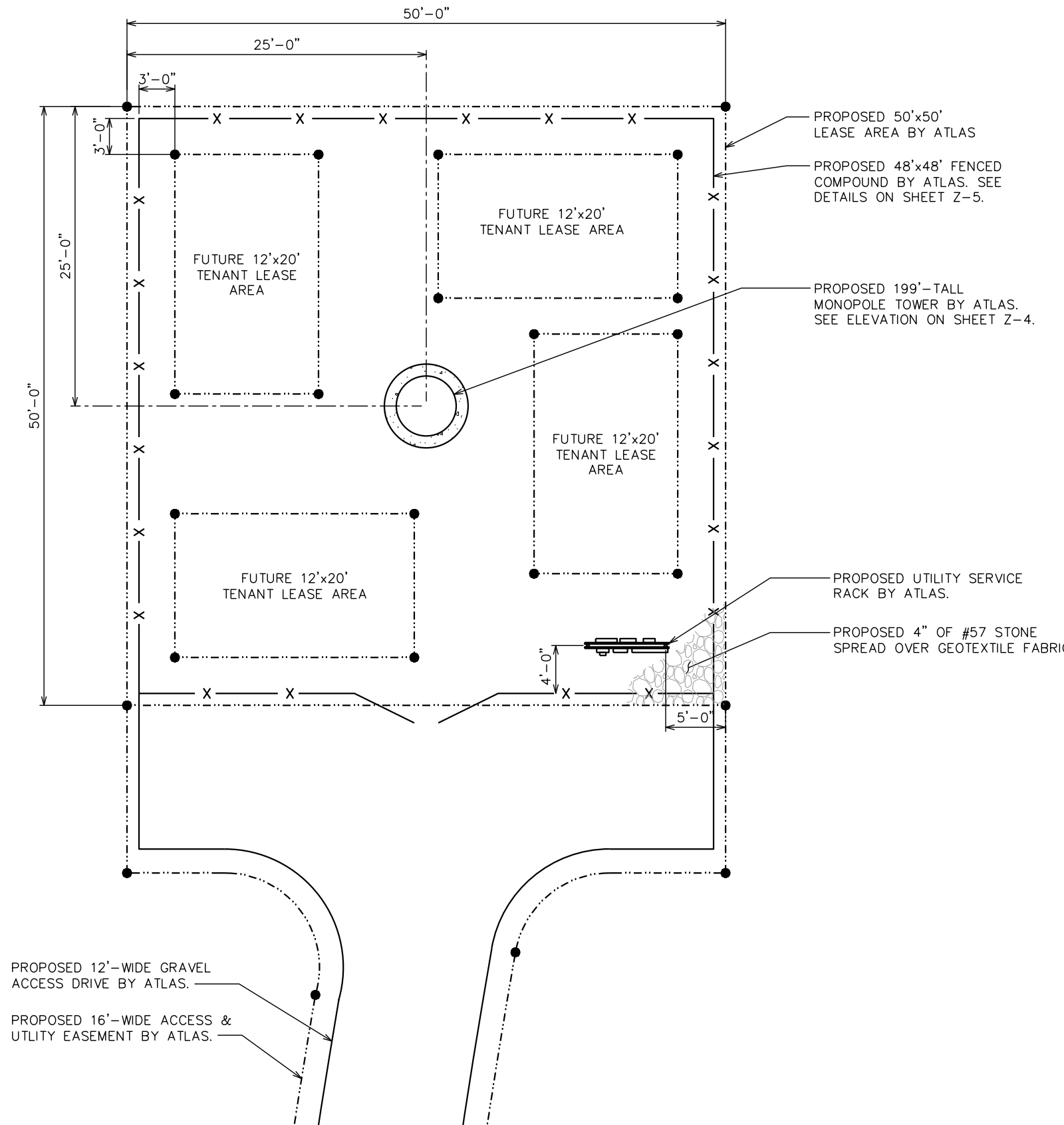
0	08-17-23	ZONING
REV	DATE	ISSUED FOR:

DRAWN BY: AUW CHECKED BY: KES

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
Z-2

REVISION:
0
TEP#: 333146.874797



PROPERTY LINE

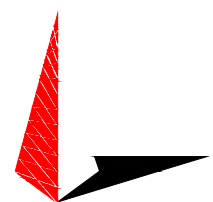
PROJECT INFORMATION:
LAKE LEELANAU - PRICE
 E DUCK LAKE RD
 LAKE LEELANAU, MI 49653
 (LEELANAU COUNTY)

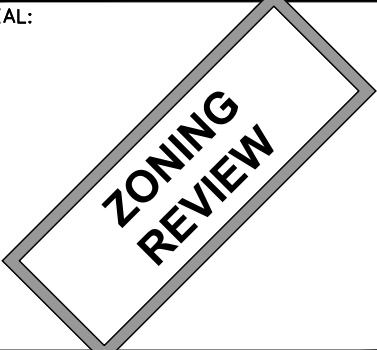
PLANS PREPARED FOR:

 Office: (888) 609-9596

PLANS PREPARED FOR:

 3002 BLUFF ST, SUITE 300
 BOULDER, CO 80302
 Office: (888) 609-9596

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
 500 E. 84TH AVE, SUITE C10
 THORNTON, CO 80229
 OFFICE: (303) 566-9914
 www.tepgroup.net

SEAL:


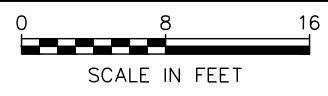
0	08-17-23	ZONING
REV	DATE	ISSUED FOR:

DRAWN BY: AUW | CHECKED BY: KES

SHEET TITLE:
COMPOUND DETAIL

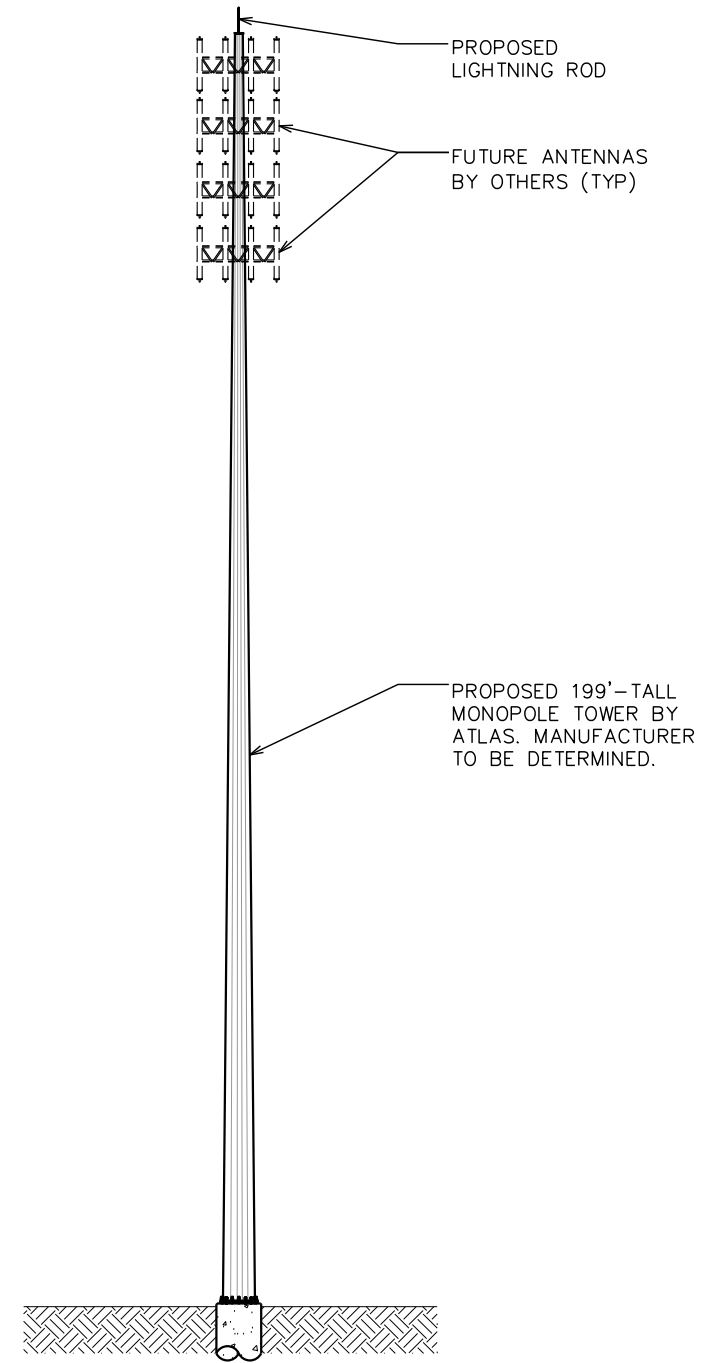
SHEET NUMBER: **Z-3** | REVISION: **0**
 TEP#: 333146.874797

COMPOUND DETAIL
 SCALE: 3/32" = 1'-0"



- 203'-0"±
T/LIGHTNING ROD
- 199'-0"
T/TOWER
- 194'-0"±
☉/FUTURE ANTENNAS
- 184'-0"±
☉/FUTURE ANTENNAS
- 174'-0"±
☉/FUTURE ANTENNAS
- 164'-0"±
☉/FUTURE ANTENNAS

0'-0" (REF)
T/GRADE



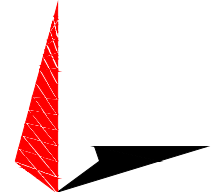
NOTES:

1. TOWER TO REMAIN GALVANIZED COLOR.
2. TOWER SHALL BE LIT ONLY IF REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION.
3. PROPOSED COAX ROUTED UP TOWER USING WAVEGUIDE LADDER.
4. TOWER TO INCLUDE SAFETY CABLE. DO NOT INCLUDE SAFETY CLIMB MECHANISM.
5. TOWER EQUIPMENT LOADING AND CENTERLINES ARE SHOWN FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE.

PROJECT INFORMATION:
LAKE LEELANAU - PRICE
E DUCK LAKE RD
LAKE LEELANAU, MI 49653
(LEELANAU COUNTY)

PLANS PREPARED FOR:
WiBlue Inc.
Office: (888) 609-9596

PLANS PREPARED FOR:
ATLAS TOWER
USA • INTERNATIONAL
3002 BLUFF ST, SUITE 300
BOULDER, CO 80302
Office: (888) 609-9596

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
500 E. 84TH AVE, SUITE C10
THORNTON, CO 80229
OFFICE: (303) 566-9914
www.tepgroup.net

SEAL:
ZONING REVIEW

0	08-17-23	ZONING
REV	DATE	ISSUED FOR:

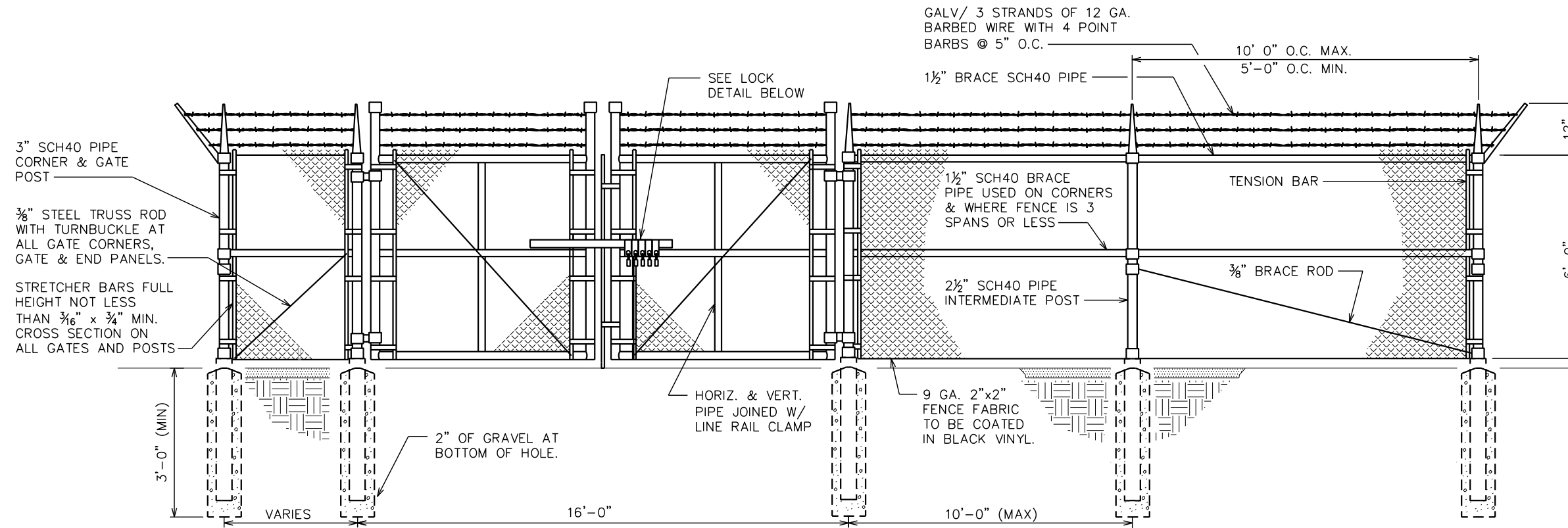
DRAWN BY: AUW CHECKED BY: KES

SHEET TITLE:
TOWER ELEVATION

SHEET NUMBER: **Z-4** REVISION: **0**
TEP#: 333146.874797

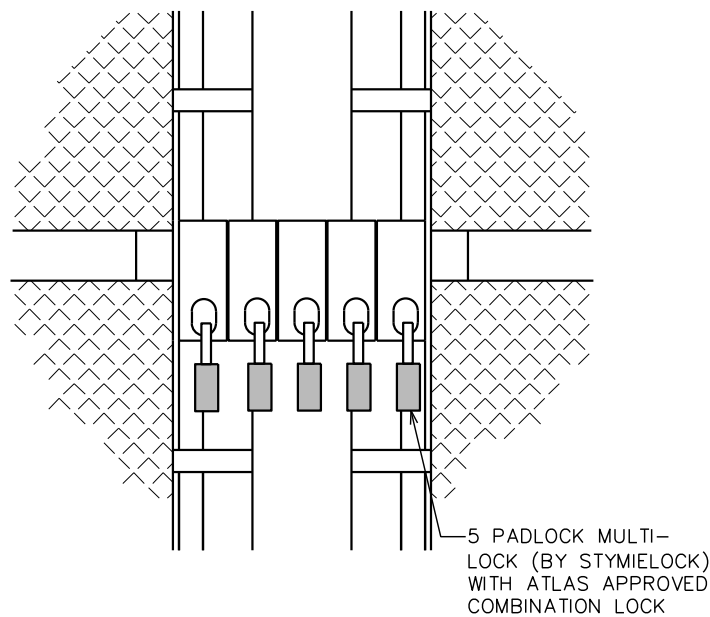
TOWER ELEVATION
SCALE: 1" = 30'





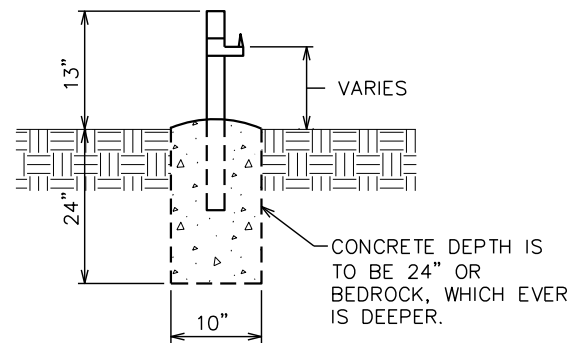
TYPICAL FENCE ELEVATION

SCALE: N.T.S.



GATE LOCK DETAIL

SCALE: N.T.S.

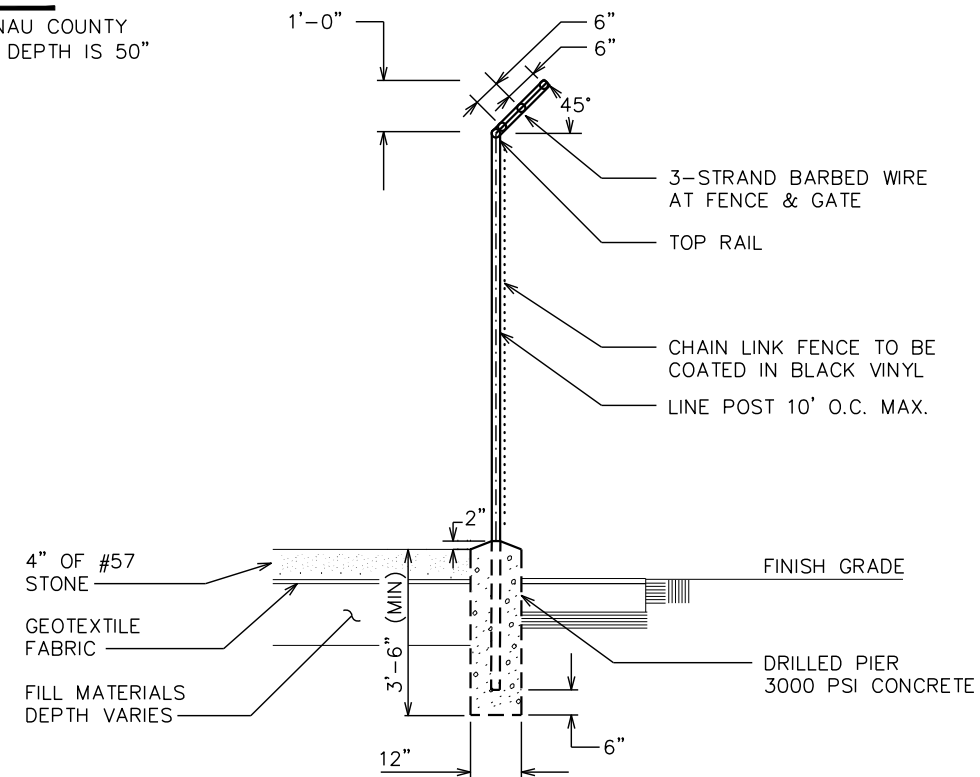


GATE STOP/KEEPER DETAIL

SCALE: N.T.S.

NOTE:

LEELANAU COUNTY FROST DEPTH IS 50"



FENCE / BARBED WIRE ARM DETAIL

SCALE: N.T.S.

PROJECT INFORMATION:
LAKE LEELANAU - PRICE
 E DUCK LAKE RD
 LAKE LEELANAU, MI 49653
 (LEELANAU COUNTY)

PLANS PREPARED FOR:

 Office: (888) 609-9596

PLANS PREPARED FOR:

 3002 BLUFF ST, SUITE 300
 BOULDER, CO 80302
 Office: (888) 609-9596

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
 500 E. 84TH AVE, SUITE C10
 THORNTON, CO 80229
 OFFICE: (303) 566-9914
 www.tepgroup.net

SEAL:

0	08-17-23	ZONING
REV	DATE	ISSUED FOR:

DRAWN BY: AUW CHECKED BY: KES

SHEET TITLE:
FENCE DETAILS

SHEET NUMBER: **Z-5** REVISION: **0**
 TEP#:333146.874797