# City of Plainwell

Brad Keeler, Mayor Lori Steele, Mayor Pro Tem Todd Overhuel, Council Member Roger Keeney, Council Member Randy Wisnaski, Council Member



"The Island City"

Department of Administration Services 211 N. Main Street Plainwell, Michigan 49080 Phone: 269-685-6821 Fax: 269-685-7282 Web Page Address: www.plainwell.org

# Agenda

# Planning Commission City Hall Council Chambers November 01, 2023 6:30 Pm

- 1. Call to Order
- 2. Pledge of Allegiance
- 3. Roll Call
- 4. Approval of Minutes: 10/18/2023 Planning Meeting
- 5. Chairman's Report
- 6. Public Comment
- 7. New Business:
  - A. Public Hearing: ORDINANCE NO. 397 Amendment Site Plan Review process for R-2 District and CBD District
  - B. Site Plan Review Cell Tower at 950 Industry Parkway
- 8. Old Business: None
- 9. Reports and Communications:
  - a. Council minutes 10/09/23
- 10. Public Comments
- 11. Staff Comments
- 12. Commissioners/Council Comments
- 13. Adjournment

# CITY OF PLAINWELL MINUTES Planning Commission Wednesday, October 18, 2023

- 1. Call to Order at 6:30 pm by Colingsworth
- 2. Pledge of Allegiance was given by all present.
- <u>Roll Call</u>: Present: Rachel Collingsworth, Lori Steele, Jay Lawson, Stephen Bennett, Jim Higgs Excused: Gary Sausaman
- 4. <u>Approval of Minutes:</u> 10/04/2023 Motion to approve minutes and place on file was made by Lawson and seconded by Bennett. All in favor vote. Motion passed.
- 5. <u>Chairperson's Report:</u> None
- 6. <u>New Business:</u>

# Motion to close the regular meeting was made by Higgs and seconded by Steele. Motion to open the Public Hearing was made by Lawson and seconded by Higgs at 6:32 pm

A. Public Hearing: Special Use Permit for a Cell Tower at 950 Industrial Parkway. Jason Riggs from Vertical Bridge was in attendance.

No Public in attendance nor were any comments sent to the City Clerk. Discussion on the project: Higgs asked many questions regarding the size, shape, and construction of the tower. Bennett asked why Plainwell, Riggs responded it was driven by T-Mobile, the tower has the ability to add more antennas to service other cell providers and improve service in downtown Plainwell.

Motion to close the public hearing was made by Higgs and seconded by Steele, all in favor of closing the meeting at 6:45 p.m.

Higgs motioned to approve the Special Use Permit for Vertical Bridge at the location of 950 Industrial Parkway to move to City Council for final approval. Seconded by Lawson. All in favor vote. Motion Carried.

- 7. Old Business: None
- 8. <u>Reports and Communications:</u> 09/25/2023 were reviewed and placed on file.
- 9. <u>Public Comments:</u> None
- 10. <u>Staff Comments:</u> Siegel, Community Development Manager provided an update on the new businesses opening in November.
- <u>Commissioner Comments</u>: Higgs inquired about the 610/640 Jersey St. property for sale now. Lawson inquired about an ordinance the city has for downtown property.
- 12. Adjournment: Colingsworth adjourned the meeting at 6:51 p.m.

Minutes submitted by Denise Siegel, Community Development Manager

# CITY OF PLAINWELL ALLEGAN COUNTY, MICHIGAN

## **ORDINANCE NO. 397**

AN ORDINANCE TO AMEND CHAPTER 53 "ZONING" OF THE CITY OF PLAINWELL CODE OF ORDINANCES; TO AMEND SECTION 53-18 "SITE PLAN REVIEW" TO MODIFY SITE PLAN REQUIREMENTS IN THE R-2 DISTRICT; AND TO AMEND SECTION 53-46 "SITE PLAN REVIEW" TO MODIFY SITE PLAN REQUIREMENTS IN THE CBD DISTRICT.

CITY OF PLAINWELL, ALLEGAN COUNTY, MICHIGAN, ORDAINS:

<u>Section 1. Amendment of Sec. 53-18.</u> Sec. 53-18 of Chapter 53, "Zoning" of the City of Plainwell Code of Ordinances is amended to read in its entirety as follows:

## Sec. 53-18. SITE PLAN REVIEW.

For all uses permitted in an R-2 District, a site plan <u>for a special land use</u> shall be <u>subject</u> to review and approval <u>submitted and no building permit shall be issued until by</u> the City Council <u>after has approved the site plan after receiving</u> recommendation from the City Planning Commission in accordance with the provisions of this section. A site plan for a use permitted by right shall be approved administratively by the City Manager or designee or by the Planning Commission, consistent with the regulation and standards set forth in this section. In addition to the criteria set forth herein, <u>a the Planning Commission shall not recommend the approval of any</u> multiple-family dwelling site plan <del>which does not shall not be approved unless it meets</del> the following criteria.

- A. All site plans shall show two means of ingress and egress to the project to permit adequate circulation for safety equipment; except that, for projects under ten acres, one boulevard entranceway may be sufficient.
- B. In all multiple projects over 25 dwelling units, parking shall not be allowed along the main circulation drive.
- C. All townhouse units must include an individual outdoor paved patio area not less than 100 square feet in area.
- D. There shall be no more than seven townhouses in any one attached row.
- E. An apartment house shall not exceed 200 feet in length.
- F. Townhouse units with attached garages may not include the space in front of the garage door as part of the parking requirement. Townhouse units with attached garages may reduce their parking requirements to one and one-half spaces per dwelling unit.

<u>Section 2. Amendment of Sec. 53-46.</u> Sec. 53-46 of Chapter 53, "Zoning" of the City of Plainwell Code of Ordinances is amended to read in its entirety as follows:

# Sec. 53-46. SITE PLAN REVIEW.

For all uses permitted in the CBD District, a site plan for a special land use shall be subject to review and approval submitted and no building permit shall be issued untilby the City Council after receiving ahas approved the site plan after a recommendation from the City Planning Commission in accordance with the provisions of this section.is code. A site plan for a use permitted by right shall be approved administratively by the City Manager or designee or by the Planning Commission, consistent with the regulation and standards set forth in this section.

<u>Section 3. Severability and Captions.</u> This Ordinance and the various parts, sections, subsections, sentences, phrases and clauses thereof are hereby declared severable. If any part, section, subsection, sentence, phrase, or clause is adjudged unconstitutional or invalid by a court of competent jurisdiction, the remainder of this Ordinance shall not be affected thereby. The captions included at the beginning of each Section are for convenience only and shall not be considered a part of this Ordinance.

<u>Section 4. Repeal.</u> Any existing ordinance or resolution that is inconsistent or conflicts with this Ordinance is hereby repealed to the extent of any such conflict or inconsistency.

<u>Section 5. Effective Date.</u> This Ordinance is ordered to take effect eight (8) days following publication of adoption in the *Union Enterprise*, a newspaper having general circulation in the City, under the provisions of 2006 Public Act 110, except as may be extended under the provisions of such Act.

ROLL CALL VOTE:

YES:

NO:

Declared adopted on:

Brad Keeler, Mayor

Ginger J Leonard, Clerk

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: 1. 2018 INTERNATIONAL BUILDING CODE 2. 2017 NATIONAL ELECTRIC CODE 3. 2018 NFPA101 LIFE SAFETY CODE 4. 2018 IFC 5. AMERICAN CONCRETE INSTITUTE 6. AMERICAN INSTITUTE OF STEEL CONSTRUCTION 7. MANUAL OF STEEL CONSTRUCTION, 13TH EDITION 8. ANSI/TIA/EIA-222-G 9. TIA 607 10. INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 81 11. IEEE C2 NATIONAL ELECTRIC SAFETY CODE, LATEST EDITION 12. TELECORDIA GR-1275 13. ANSI/T 311 14. UNIFORM MECHANICAL CODE 15. UNIFORM MECHANICAL CODE 16. LOCAL BUILDING CODE 17. CITY/COUNTY ORDINANCES 18. STATE BUILDING CODE





ROPOSED 50'x50' LEASE AREA WITH A 45'x45' FENCED COMPOUND. PROPOSED 195' MONOPOLE TOWER WITH (6) ANTENNAS, (3) AHLOA'S, (3) AHFIG'S & (2) HYBRID CABLES.

**PROJECT DESCRIPTION** 



VICINITY MAP

verticalbridge

750 PARK OF COMMERCE DRIVE, SUITE 200 BOCA RATON. FL 33487

# VERTICAL BRIDGE: US-MI-5300 KENYON T-MOBILE: GS02483B

SITE ADDRESS 950 INDUSTRIAL PARKWAY PLAINWELL, MI 49080 ALLEGAN COUNTY LATITUDE: 42° 26' 48.45" (42.4467904) N LONGITUDE: 85° 37' 32.44" (-85.6256771) W

MUNICIPALITY: **ALLEGAN COUNTY** 

STATE: MICHIGAN

TOWER TYPE: MONOPOLE

TOWER HEIGHT: 195' (199' TO HIGHEST APPURTENANCE)

NUMBER OF CARRIERS: 0 EXISTING, 1 PROPOSED

USE: **PROPOSED TELECOMMUNICATIONS TOWER** AND UNMANNED EQUIPMENT

811

Know what's below. Call before you dig.

CONSULTANT

FORTUNE WIRELESS 5511 WEST 79TH STREET INDIANAPOLIS, IN 46278 PHONE: (317) 532-1374 ATTN.: DAVID KASPER

PROJECT SUMMARY

DEVELOPER VB BTS, LLC 750 PARK OF COMMERCE DRIVE, STE 200 BOCA RATON, FL 33487 PHONE: (630) 946-7741 ATTN: DANIEL KALINA T-MOBILE 6215 MORENCI TRAIL INDIANAPOLIS, IN 46268 PHONE: (317) 347-7083 ATTN: MELISSA MORENO

POWER COMPANY **CONSUMERS ENERGY** PHONE: (888) 450-9143 CONTACT: EMAIL:

TELEPHONE COMPANY **REFERENCE ONLY** AT&T

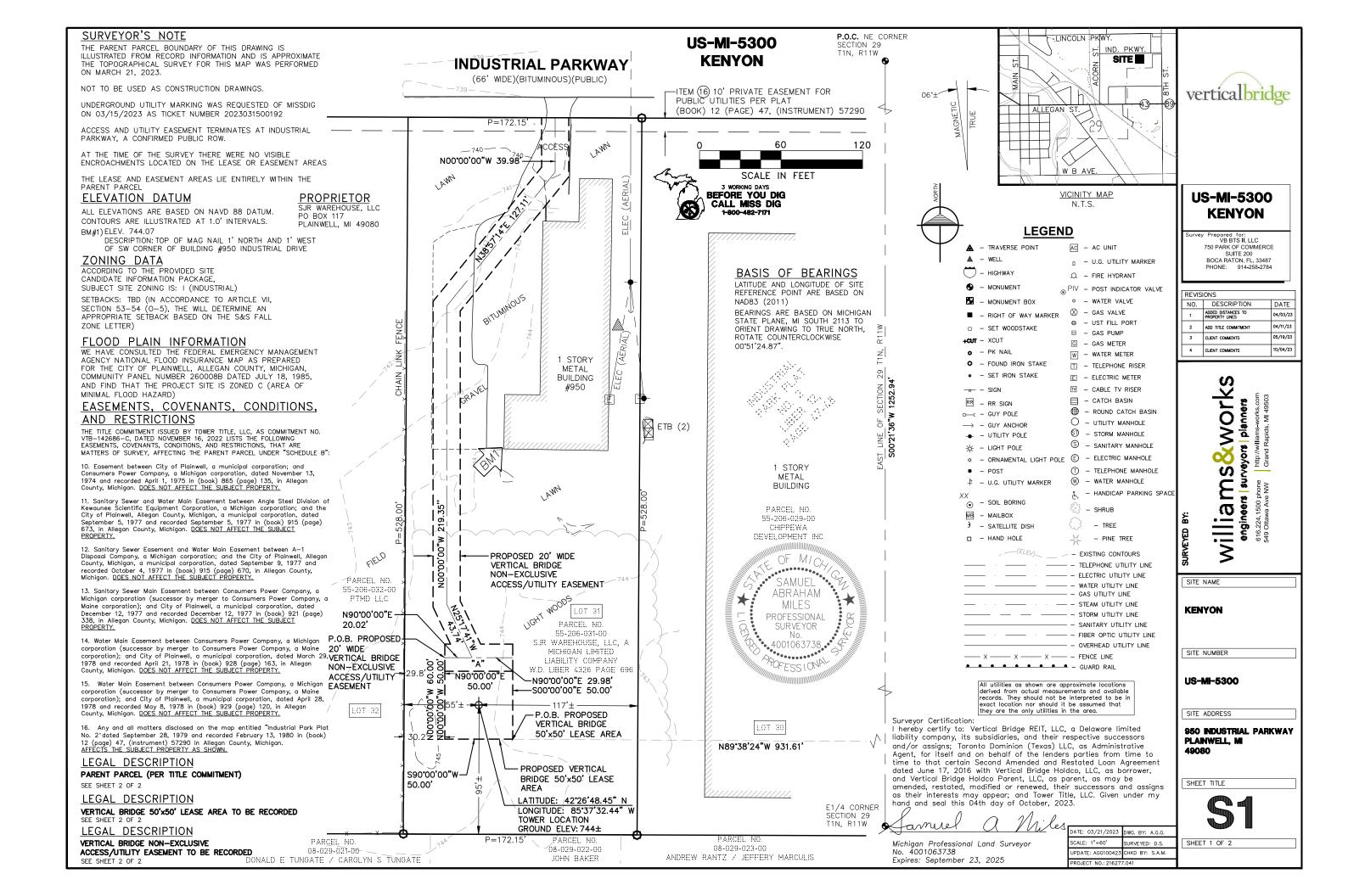
PROPERTY OWNER SJR WAREHOUSE, LLC PO BOX 117 PLAINWELL, MI 49080 PHONE: (269) 998-5034 ATTN .: JON RIDDERMAN

CONTACTS

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	-	SITE SURVEY
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		FLAINVVELL
		(269) 685-6821 CITY CLERK

PERMIT INFO

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### SURVEYOR'S NOTE

ILLUSTRATED FROM RECORD INFORMATION AND IS APPROXIMATE

THE TOPOGRAPHICAL SURVEY FOR THIS MAP WAS PERFORMED ON MARCH 21, 2023.

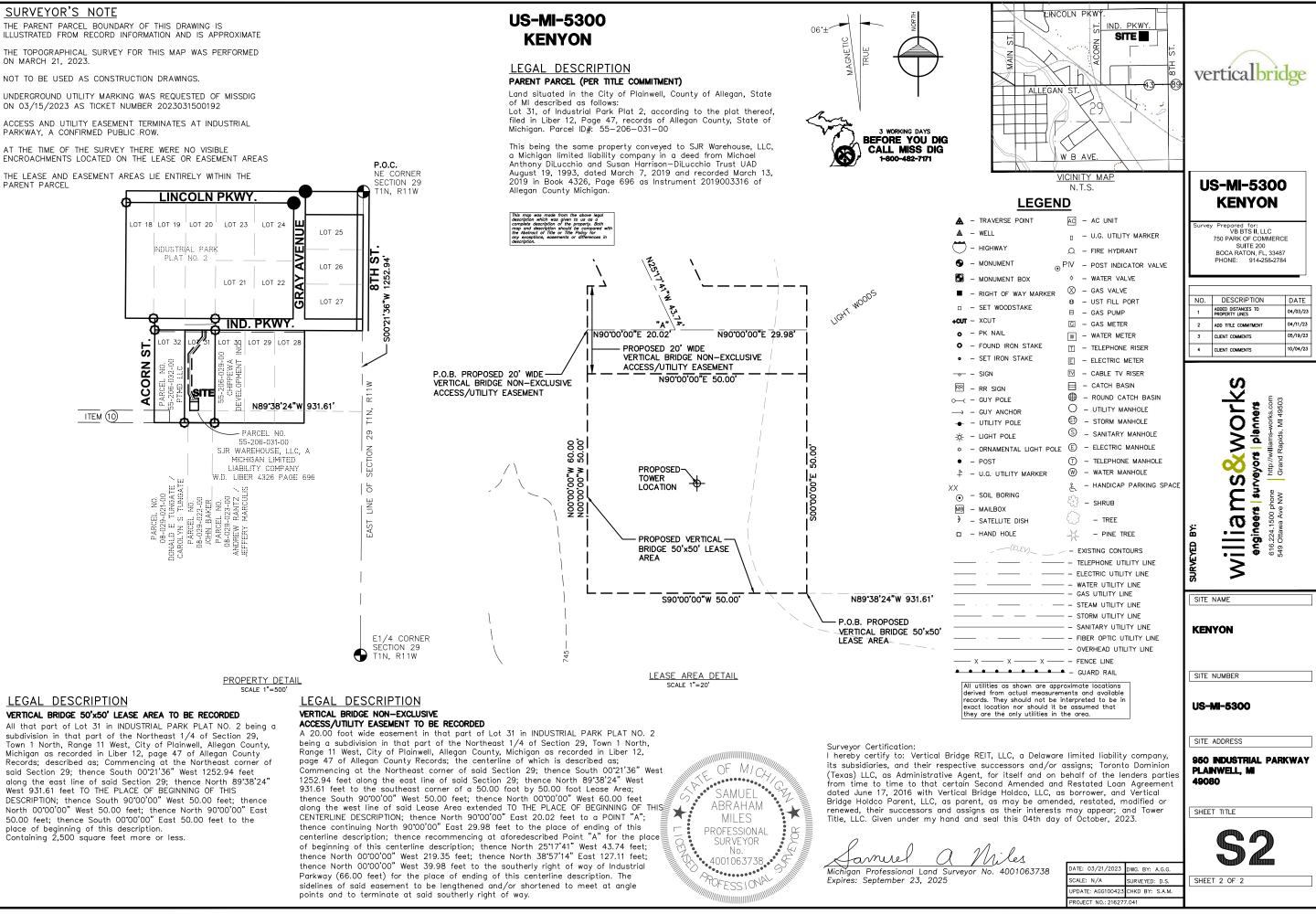
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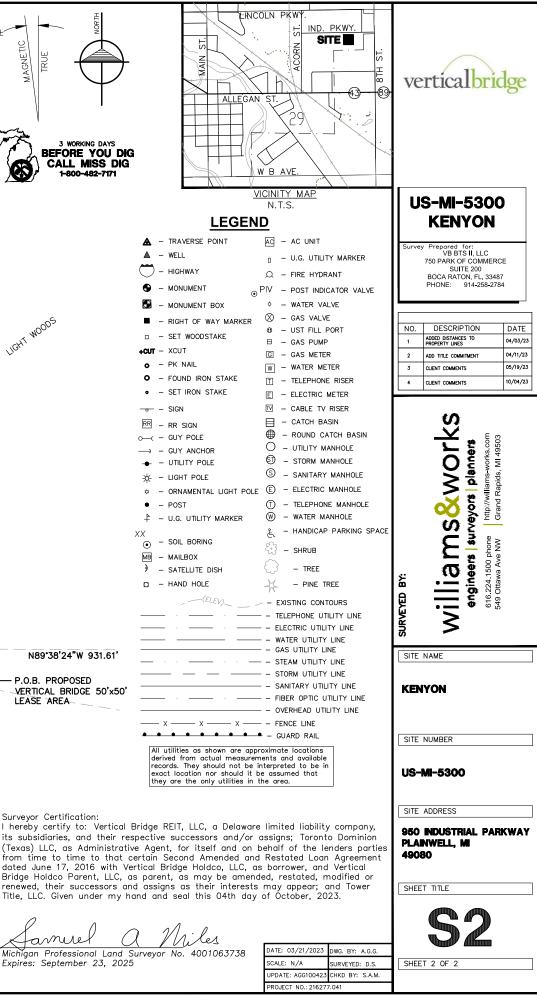
ACCESS AND UTILITY EASEMENT TERMINATES AT INDUSTRIAL PARKWAY, A CONFIRMED PUBLIC ROW.

# ENCROACHMENTS LOCATED ON THE LEASE OR EASEMENT AREAS

### THE LEASE AND EASEMENT AREAS LIE ENTIRELY WITHIN THE PARENT PARCEL

# **KENYON**





1. T C U 2. A E F C V V 3. A 4. If R 5. A	HE CONTRACTOR SHALL CONTACT UTILITY I CONSTRUCTION. CONTRACTOR IS TO POT HO ITILITY LOCATES ARE CORRECT. LL EXISTING ACTIVE SEWER, WATER, GAS, NCOUNTERED IN THE WORK, SHALL BE PR OR THE PROPER EXECUTION OF THE WORK CONTRACTOR. EXTREME CAUTION SHOULD B HEN EXCAVATING OR DRILLING PIERS ARO LL SITE WORK SHALL BE AS INDICATED OF F NECESSARY, RUBBISH, STUMPS, DEBRIS, EMOVED FROM THE SITE AND DISPOSED O LL EXISTING INACTIVE SEWER, WATER, GAS	NOTECTED AT ALL TIMES AND WHERE REQUIRED K, SHALL BE RELOCATED AS DIRECTED BY IE USED BY THE CONTRACTOR/SUBCONTRACTOR UND OR NEAR UTILITIES. N THE DRAWINGS AND PROJECT SPECIFICATIONS. STICKS, STONES AND OTHER REFUSE SHALL BE IF LEGALLY. , ELECTRIC AND OTHER UTILITIES, WHICH	STRUCTURAL STEEL NOTES:       DETAIL       2 (N-1)         1. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.       2. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.         3. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4"ø) CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.         4. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8"ø ASTM A307 BOLTS UNLESS NOTED OTHERWISE.         5. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO	GENERAL NOTES:       DETAIL       4         1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHAL CONTRACTOR-       GENERAL CONTRACTOR         SUBCONTRACTOR-       GENERAL CONTRACTOR         SUBCONTRACTOR-       SUBCONTRACTOR         OWNER-       VERTICAL BRIDGE         OEM-       ORIGINAL EQUIPMENT MANUFACTURER         2. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTOR SHALL VISIT THE CELL SITE FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAI ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY F         SHALL BE BROUGHT TO THE ATTENTION OF OWNER.       3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE AL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULA LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFROMMANCE OF TH ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTICH
6. T 5. T 6. T 8. N 9. T 10. T 5 11. C E C	LUGGED OR OTHERWISE DISCONTINUED AT XECUTION OF THE WORK, SUBJECT TO THI OCAL UTILITIES. THE OWNER SHALL PROVIDE SITE SIGNAGE PECIFICATION FOR SITE SIGNAGE (TO BE II HE SITE SHALL BE GRADED TO CAUSE SU QUIPMENT AND TOWER AREAS. TO FILL OR EMBANKMENT MATERIAL SHALL IATERIALS, SNOW OR ICE SHALL NOT BE P THE SUB GRADE SHALL BE COMPACTED AN O FINISHED SURFACE APPLICATION. THE AREAS OF THE OWNERS PROPERTY DIS THE TOWER, EQUIPMENT OR DRIVEWAY, SHA TABILIZED TO PREVENT EROSION AS SPECI CONTRACTOR SHALL MINIMIZE DISTURBANCE ROSION CONTROL MEASURES, IF REQUIRED CONFORMANCE WITH THE LOCAL GUIDELINES	NSTALLED BY CONTRACTOR). RFACE WATER TO FLOW AWAY FROM THE BTS BE PLACED ON FROZEN GROUND. FROZEN PLACED IN ANY FILL OR EMBANKMENT. D BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR STURBED BY THE WORK AND NOT COVERED BY ALL BE GRADED TO A UNIFORM SLOPE, AND IFIED ON THE PROJECT SPECIFICATIONS. TO EXISTING SITE DURING CONSTRUCTION. D DURING CONSTRUCTION, SHALL BE IN	<ul> <li>MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.</li> <li><u>CONCRETE AND REINFORCING STEEL NOTES:</u> <u>DETAIL</u> (3) (SN-)</li> <li>ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.</li> <li>ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. SLAB FOUNDATION DESIGN ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.</li> <li>REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, U.N.O.</li> <li>THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE. SPLICES SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:</li> <li>CONCRETE CAST AGAINST EARTH</li></ul>	<ul> <li>ALL WORK CARNEL COMPLY WITH ALL APPLICABLE MONICIPAL AND OTICOMENTY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND AF REGULATIONS.</li> <li>4. DRAWINGS PROVIDED WERE DESIGNED AND SCALED TO 11×17 FORMAT.</li> <li>5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EC APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS IND THE DRAWINGS.</li> <li>6. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.</li> <li>7. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAW CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY TH</li> <li>8. CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOWER AND T1 CAI GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DR</li> <li>9. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.</li> <li>10. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS S COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY.</li> <li>11. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.</li> <li>12. CONSTRUCTION SHALL COMPLY WITH VERTICAL BRIDGE MASTER SPECIFICATION THESE DRAWINGS WHERE A CONFLICT EXISTS IT IS CONTRACTORS RESPONSIB NOTIFY OWNER.</li> <li>13. NOTHING CONTAINED IN THESE DRAWINGS SHALL CREATE ANY CONTRACTORAL BRIDGE.</li> <li>14. CONTRACTOR SHALL HOLD HARMLESS VERTICAL BRIDGE AND ITS REPRESENT/</li> </ul>
AGL BTS (E) MIN. N.T.S REF F.B.D.R T.B.D.R T.B.C EGR AWGB EGCW SIAD GEN RBS	REFERENCE RADIO FREQUENCY D. TO BE DETERMINED	SYMBOLS:         S/G       SOLID GROUND BUSS BAR         S/N       SOLID NEUTRAL BUSS BAR         SUPPLEMENTAL GROUND CONDUCTOR         2-POLE THERMAL-MAGNETIC CIRCUIT BREAKER         SINGLE-POLE THERMAL-MAGNETIC CIRCUIT BREAKER         CHEMICAL GROUND ROD         DISCONNECT SWITCH         METER         EXOTHERMIC WELD (CADWELD) (UNLESS OTHERWISE NOTED)         MECHANICAL WELD         S/8" × 10'-0" COPPER CLAD STEEL GROUND ROD         S/8" × 10'-0" COPPER CLAD STEEL GROUND ROD WITH INSPECTION SLEEVE         GROUND ROD WITH INSPECTION SLEEVE	SLAB AND WALLS	<ul> <li>FROM ALL SUITS, ACTIONS, OR CLAIMS OF ANY KIND BROUGHT ABOUT AS A OF ANY INJURIES OR DAMAGES SUSTAINED BY PERSON(S) OR PROPERTY DUF CONSTRUCTION OF THIS PROJECT.</li> <li>15. CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPI ALL SAFETY PRECAUTIONS AND PROGRAMS FOR ANY AND ALL PERSONS, INC SUBCONTRACTORS, ON SITE AS REQUIRED BY CURRENT OSHA STANDARDS; IN BUT NOT LIMITED TO <ul> <li>A) PERSONAL PROTECTIVE &amp; LIFE SAVING EQUIPMENT</li> <li>B) SIGNS, SIGNALS, &amp; BARRICADES</li> <li>C) TOOLS – HAND &amp; POWER</li> <li>D) ELECTRICAL</li> <li>E) FALL PROTECTIVE</li> <li>E) LECTRICAL</li> <li>E) FALL PROTECTION</li> <li>F) EXCAVATIONS</li> <li>G) CONCRETE &amp; MASONRY CONSTRUCTION</li> <li>H) STEEL ERECTION</li> <li>J) POWER TRANSMISSION &amp; DISTRIBUTION</li> <li>J) CRANES &amp; DERRICKS IN CONSTRUCTION.</li> </ul> </li> <li>1. THE ENGINEER SHALL BE RESPONSIBLE FOR PROVIDING ALL TIME BASIS.</li> <li>2. THE CONTRACTOR SHALL TOPSOIL AND SEED ALL DISTURBED</li> <li>3. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA MAY VARY FROM THE LOCATION NO SUBCITATED. IN PARTICULAR, THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE SHOWN AN IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GRE WORK, 48 HOURS BEFORE YOU DIG, DRILL, OR BLAST, CALL</li> <li>4. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY COND THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SEPLANS WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER</li> </ul>

ALL APPLY: TE TO AN BE FOUND H ALL LL ATIONS AND HE WORK. TILITY APPLICABLE QUIPMENT, DICATED ON WITH WINGS, THE THE OWNER. ABLES, RAWINGS. SUCH AS ONS AND BILITY TO TATIVES RING THE PERVISING CLUDING INCLUDING FIELD LAYOUT ON A ONE D AREAS. , ABOVEGROUND STRUCTURES EA, EXACT LOCATION OF WHICH , THE CONTRACTOR IS WARNED H PIPELINES, SUBSURFACE WN OR MAY NOT BE SHOWN; REAT CARE IN EXECUTING ANY 1 811. 811. DITIONS THAT VARY FROM HALL NOT VARY FROM THE



#### ELECTRICAL INSTALLATION NOTES



- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
- 2. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
- 3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
- 4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
- 5. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- 6. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PLASTIC TAPE PER COLOR SCHEDULE. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (I.E. PANEL BOARD AND CIRCUIT ID'S).
- 8. PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
- 9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- 10. POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET & DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.
- 11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.
- 12. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION WITH OUTER JACKET LISTED OR LABELED FOR THE LOCATION USED UNLESS OTHERWISE SPECIFIED.
- 13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75' C (90' C IF AVAILABLE).
- 14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E. RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT) OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- 17. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
- RIGID NONMETALLIC CONDUIT (I.E. RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- 19. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- 20. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
- 21. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- 22. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER).

### ELECTRICAL INSTALLATION NOTES (CONT.):

- 23. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND RATED NEMA 1 (OR BETTER) INDOORS OR NEMA 3R (OR BETTER) OUTDOORS.
- 24. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- 26. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- 27. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.
- 28. INSTALL PLASTIC LABEL ON THE METER CENTER IDENTIFYING SPECIFIC CARRIER.



KEYED NOTES: (SEE GROUNDING PLAN DIAGRAM - SHEET E-1)

- (1) TOWER GROUNDING: EXTEND #2 SOLID TINNED CU WIRE FROM BURIED GROUND RING TO EXISTING TOWER AND MAKE EXOTHERMIC CONNECTION.
- (2) <u>HATCH\_PLATE\_GROUND\_BAR:</u> EXTEND #2 SOLID TINNED CU WIRE FROM BURIED GROUND RING UP THROUGH 1/2" PVC SLEEVE INTO EQUIPMENT SHELTER FOR CONNECTION TO INTERIOR HALO GROUND RING. TYPICAL AT 4 BUILDING CORNERS.
- (3) <u>GROUNDING OF INTERNAL GROUND RING:</u> EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING THROUGH 1/2" DIA. PVC SLEEVE INTO EQUIPMENT SHELTER FOR CONNECTION TO INTERIOR HALO GROUND RING. TYPICAL AT (4) BUILDING CORNERS.
- 4 GROUND ROD: COPPER CLAD STEEL, 5/8"Ø TEN (10) FEET LONG.
- (5) ICE BRIDGE SUPPORT POST GROUNDING: EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING TO ALL ICE BRIDGE SUPPORT POSTS AND EXOTHERMICALLY WELD.
- (6) <u>FENCE GROUNDING:</u> IF FENCE IS WITHIN 6' OF GROUNDING RING, EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING TO FENCE CORNER POSTS AND EXCITLEMICALLY WELD. BOND INTERMEDIATE POST IF REQUIRED TO MAINTAIN 25' MAX. SPACING.
- D <u>Hvac grounding:</u> Extend #2 tinned cu wire form buried ground ring to the Hvac unit and make a mechanical connection.
- (8) <u>TOWER GROUNDING BAR:</u> EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING UP TO THE TOWER GROUND BAR AND MAKE A MECHANICAL CONNECTION. SECURE GROUND BAR DIRECTLY TO TOWER WITH ISOLATOR KIT USING STAINLESS STEEL MOUNTING MATERIAL.
- ③ <u>CELL REFERENCE GROUND BAR:</u> EXTEND (2) #2 TINNED CU WIRE FROM BURIED GROUND RING UP TO THE CELL REFERENCE GROUND BAR (INSIDE SHELTER) AND MAKE AN EXOTHERMIC WELD CONNECTION.
- TELCO GROUNDING BAR: EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING UP TO TELCO GROUND BAR (INSIDE SHELTER) AND MAKE AN EXOTHERMIC WELD CONNECTION.
- ATTENNA GROUND BAR: MOUNT GROUND BAR DIRECTLY TO TOWER AT TOP OF COAX RUNS. SECURE TO TOWER WITH ISOLATOR KIT USING STAINLESS STEEL MOUNTING MATERIAL.
- <u>ADD EXOTHERMICALLY WELD.</u>
   EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING TO GATE POSTS
   AND EXOTHERMICALLY WELD.
- ▲ <u>EXTERIOR GECI RECEPTACLE GROUNDING:</u> EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING TO THE EXTERIOR GECI RECEPTACLE AND MAKE A MECHANICAL CONNECTION.

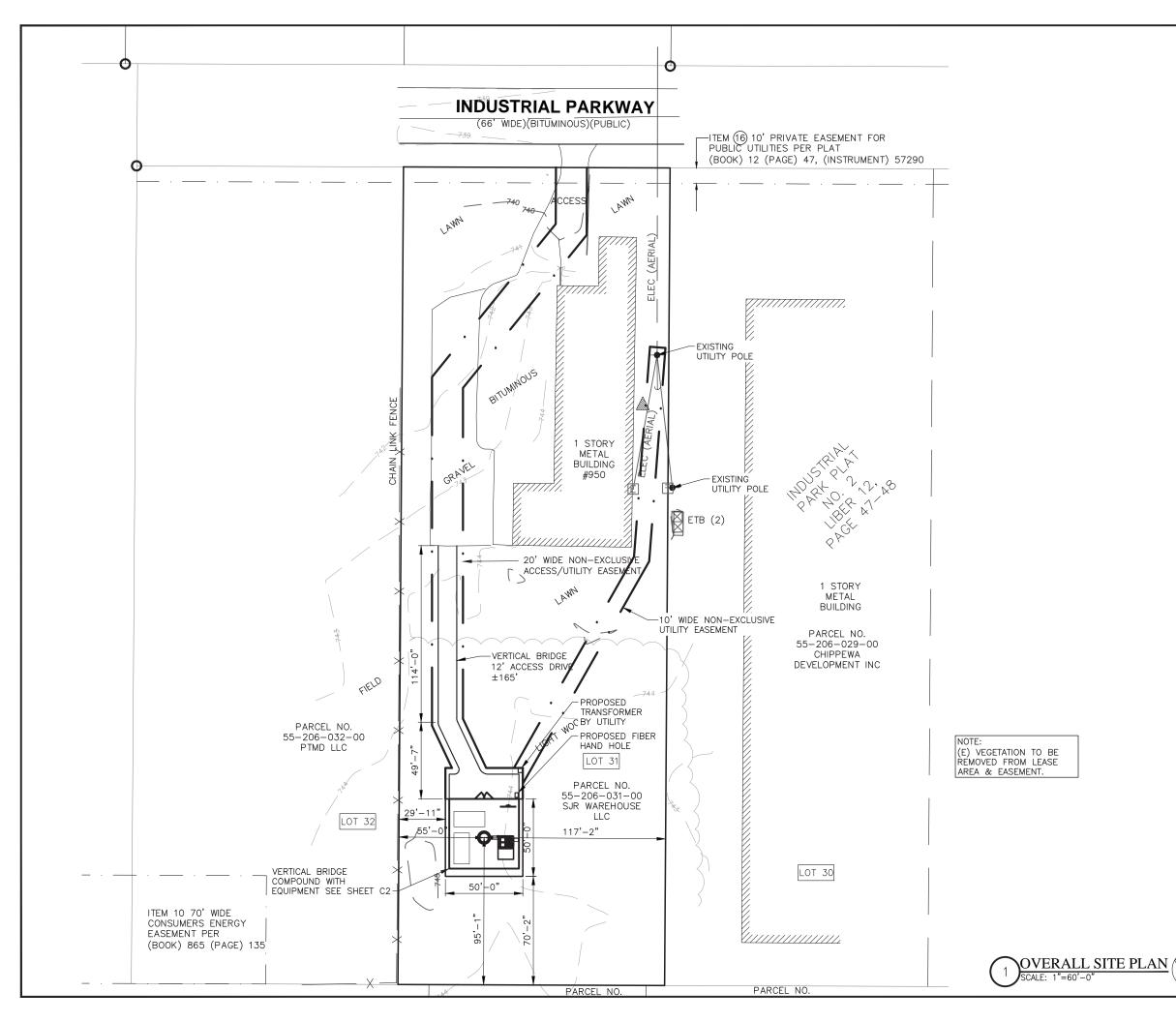
#### GREENFIELD GROUNDING NOTES:

- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 AWG SOLID TINNED COPPER FOR OUTDOOR BTS.
- 7. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
- 8. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
- 10. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- 11. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
- 12. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
- 13. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
- 14. APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- 15. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WIT A CORROSION RESISTANT MATERIAL.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- 17. BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
- 18. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS, WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT





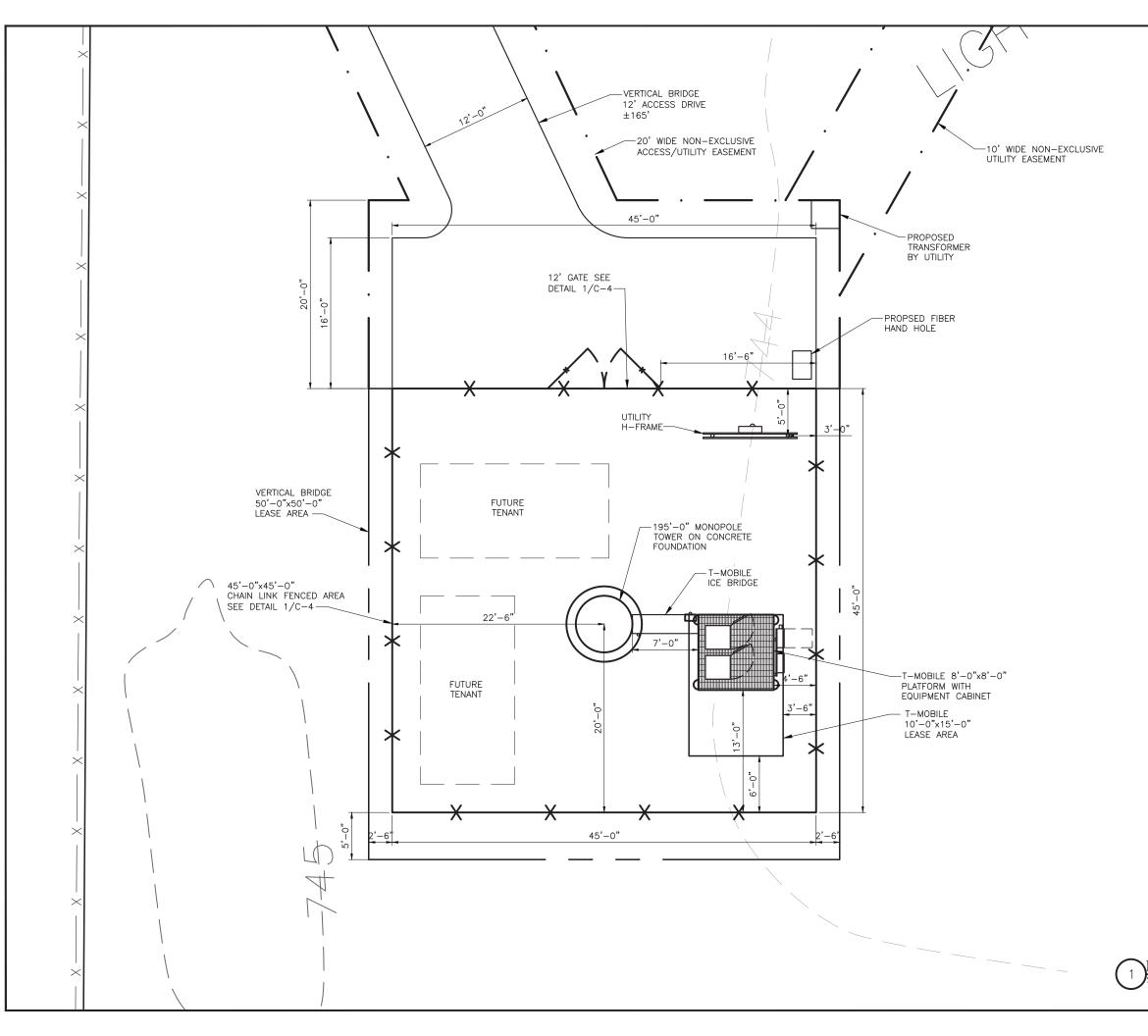
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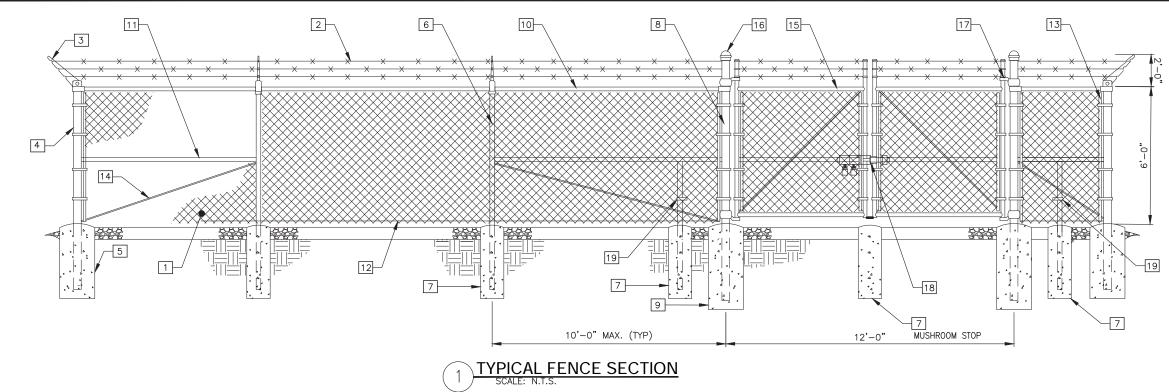


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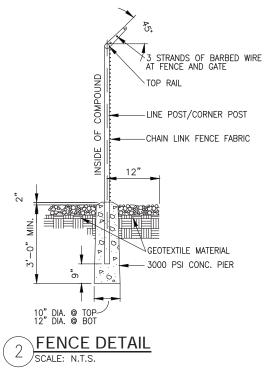


## **KEYNOTE LEGEND:**

- IFABRIC:6FT. HEIGHT, 9 GAUGE, 2" MESH, ASTMA392.
- 2 BARBED WIRE: 12 GAUGE WIRE, 4 POINT (3 RUNS), FINISH TO MATCH FABRIC, ASTM A121.
- 3 EXTENSION ARMS: STAMPED STEEL WITH MALLEABLE IRON BASE, FINISH TO MATCH FENCE FRAMEWORK, ASTM F626.
- [4] END AND CORNER POSTS: 3"Ø PIPE SCH. 40 (GALV.) ASTM F1083
- 5 CONCRETE FOUNDATION: 36"x12"ø (3000 PSI)
- 6 LINE POSTS: 2"Ø PIPE SCH. 40 (GALV.) ASTM F1083
- 7 CONCRETE FOUNDATION: 36"x10"ø (3000 PSI)
- 8 GATE POSTS: 4"Ø PIPE SCH. 40 (GALV.) ASTM F1083
- 9 CONCRETE FOUNDATION: 48"x12"¢ (3000 PSI)
- 10 TOP RAIL & BRACE RAIL: 1-1/2"Ø PIPE SCH. 40 (GALV.) ASTM F1083

- 11 MIDDLE RAILS: 1-1/2"Ø PIPE SCH. 40 (GALV.) ASTM F1083
- I2
   BOTTOM TENSION WIRE: 0.177"Ø METALLIC-COATED

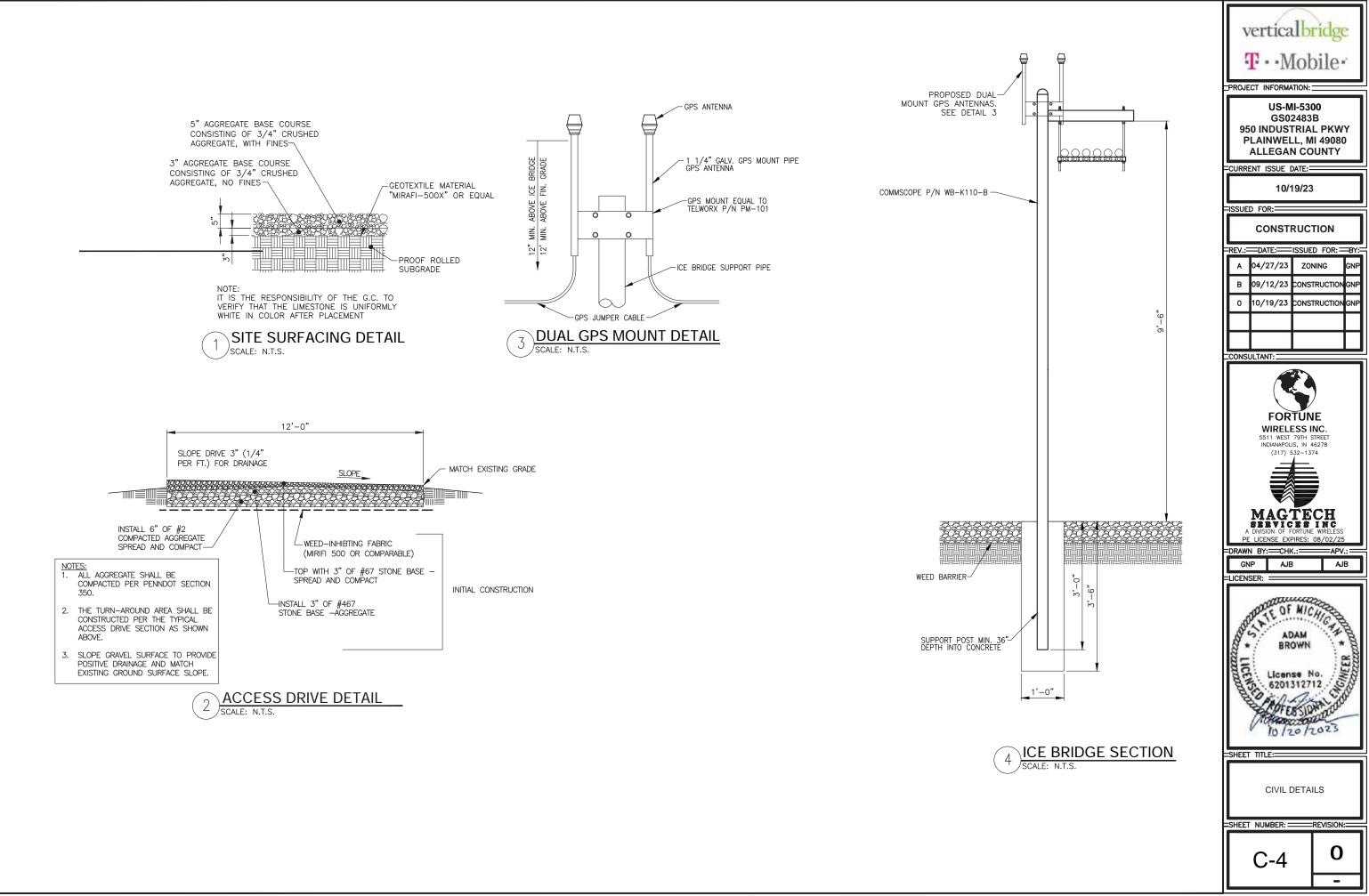
   STEEL (GALV.), MARCELLED, ASTM A824
- I3
   TENSION BARS: 3/16"x3/4", FULL HEIGHT OF FABRIC, FINISH TO MATCH FENCE FRAMEWORK.
- 14 TENSION ROD: 3/8"Ø WITH ADJ. TIGHTNER, FINISH TO MATCH FENCE FRAMEWORK.
- [15] GATE FRAME: 2"Ø SCH. 40 (GALV.) ASTM F1083
- 16 POST CAPS: PER POST DIAMETER.
- I7GATE HINGES: NON-LIFT-OFF TYPE, OFFSET TO<br/>PERMIT 180 DEGREE SWING.
- IB
   CONTRACTOR TO PROVIDE STYMIE LOCK OR APPROVED EQUIVALENT
- 19 DUCK BILL OPEN GATE HOLDER. VERIFY LOCATION IN FIELD BEFORE INSTALLATION



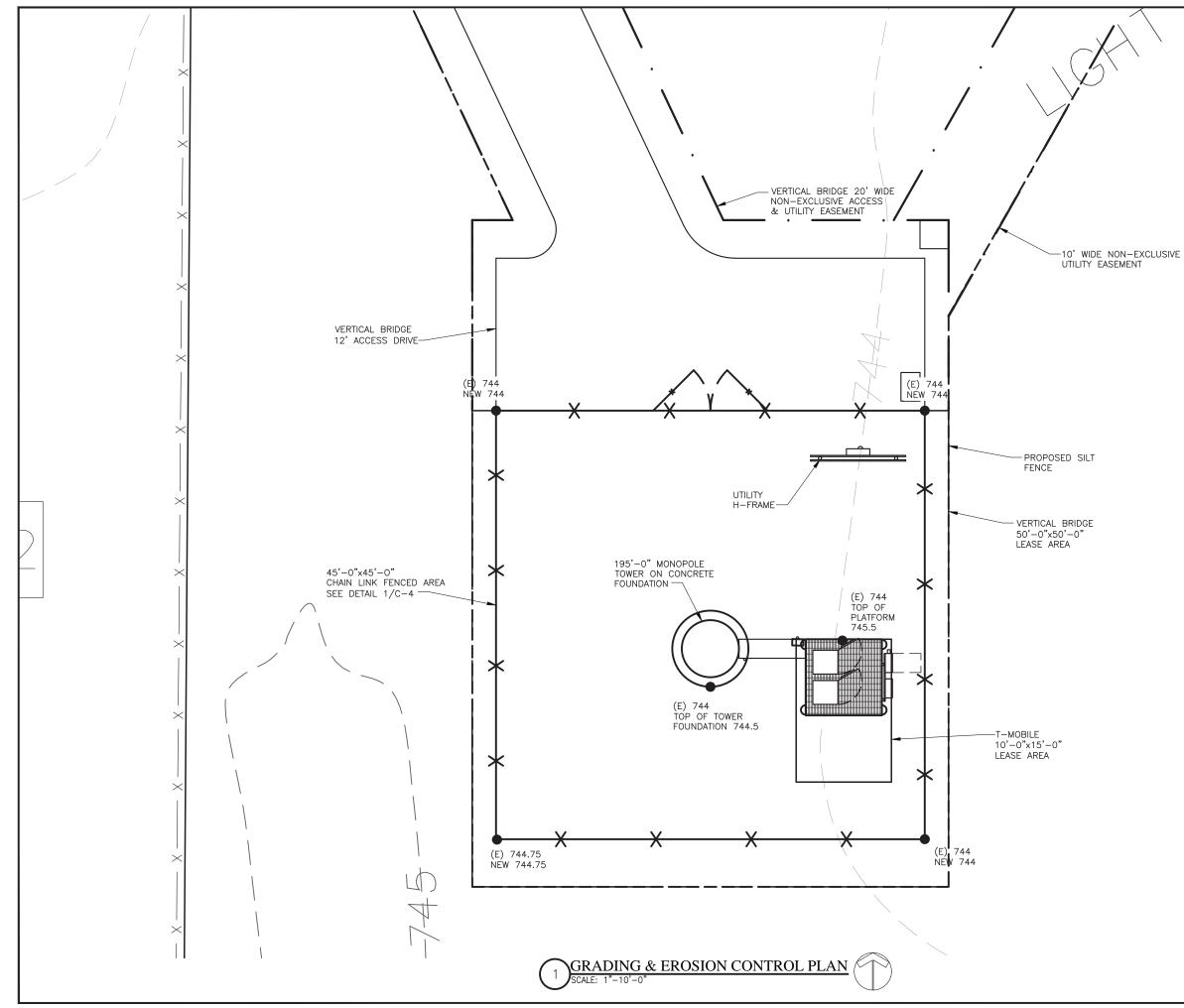
## FENCE NOTES:

- 1. REFER TO PROJECT SPECIFICATIONS FOR INFORMATION NOT SHOWN IN THE DRAWING.
- 2. FENCE FABRIC SHALL COMFORN TO CHAIN LINK FENCE MANUFACTURERS INSTITUTE (CLFMI) PRODUCT MANUAL.
- 3. INSTALL FENCE IN COMPLIANCE WITH ASTM F 567.
- 4. INSTALL SWING GATES IN COMPLIANCE WITH ASTM F 900.
- 5. DO NOT BEGIN INSTALLATION AND ERECTION BEFORE FINAL GRADING IS COMPLETED, UNLESS OTHERWISE PERMITTED. INSTALL FENCING ON BOUNDARY LINES INSIDE OF PROPERTY LINE ESTABLISHED BY SURVEY.
- 6. DRILL OR HAND-EXCAVATE (USING POST HOLE DIGGER) HOLES FOR POSTS TO DIAMETERS AND SPACINGS INDICATED, IN FIRM, UNDISTURBED OR COMPACTED SOIL. IF NOT INDICATED ON DRAWINGS, EXCAVATE HOLES FOR EACH POST TO MINIMUM DIAMETER RECOMMENDED BY FENCE MANUFACTURER, BUT NOT LESS THAN (4) TIMES LARGEST GROSS-SECTION OF POST.
- 7. REMOVE POST HOLE SPOILS FROM SITE. DO NOT SET SPOILS ON AGGREGATE WITHOUT ADEQUATE PROTECTION.
- 8. PROTECT PORTION OF POSTS ABOVE GROUND FROM CONCRETE SPLATTER. PLACE CONCRETE AROUND POSTS AND VIBRATE OR TAMP FOR CONSOLIDATION. CHECK EACH POST FOR VERTICAL AND TOP ALIGNMENT AND HOLD IN POSITION DURING PLACEMENT AND FINISHING OPERATIONS, UNLESS OTHERWISE SHOWN, EXTEND CONCRETE FOOTING 1 INCH ABOVE GRADE AND TROWEL TO A CROWN TO SHED WATER.
- 9. INSTALL BARBED WIRE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 10. APPLY FABRIC TO OUTSIDE OF FRAMEWORK.

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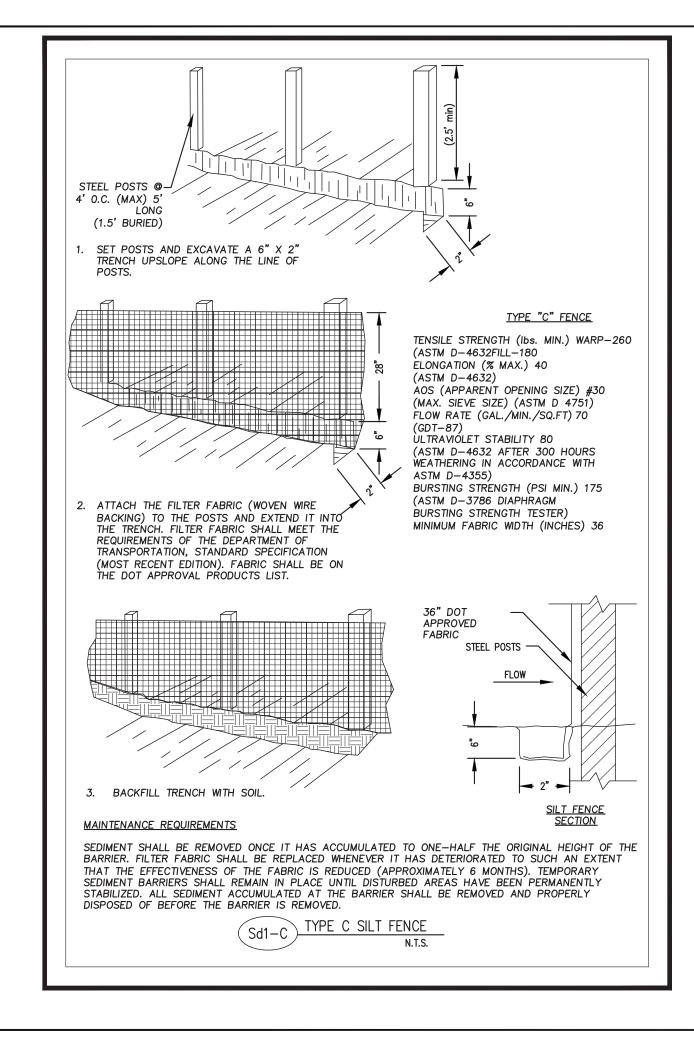


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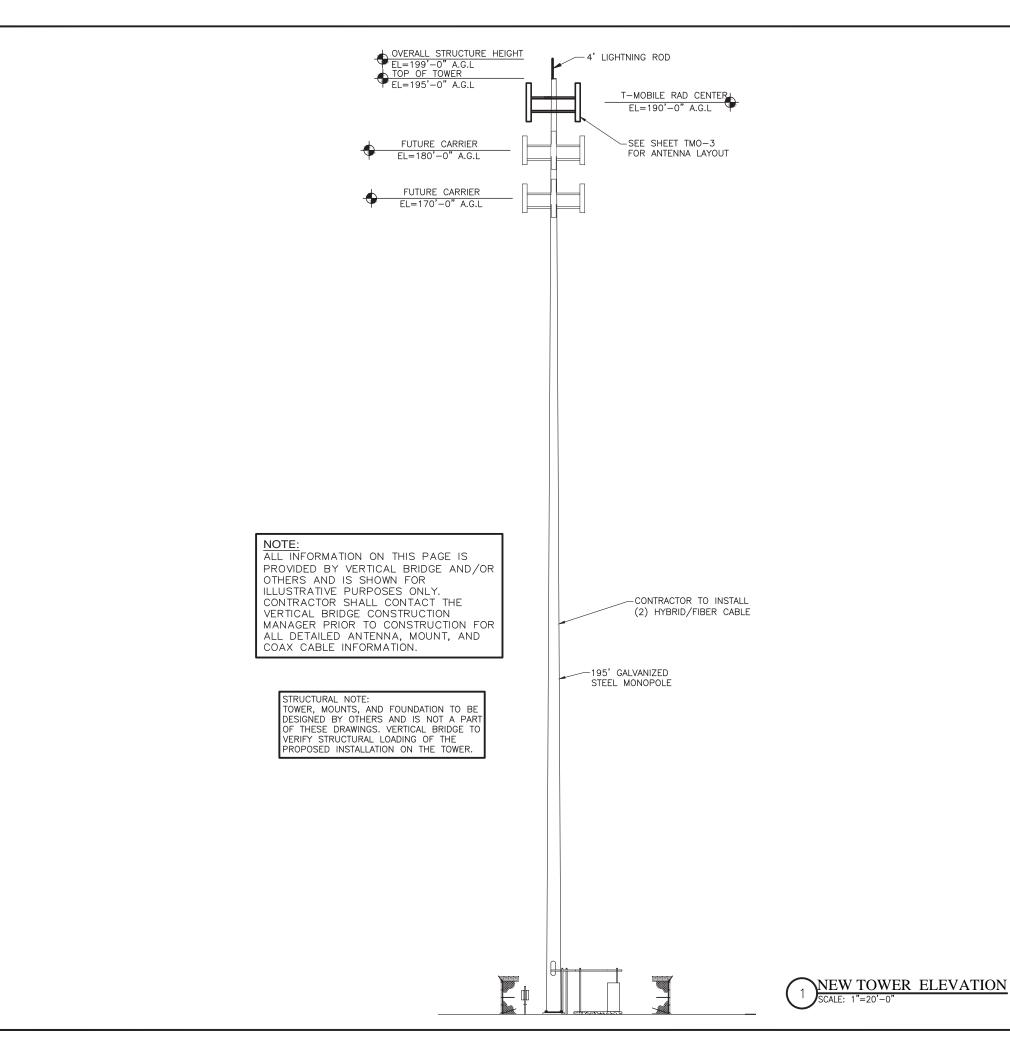


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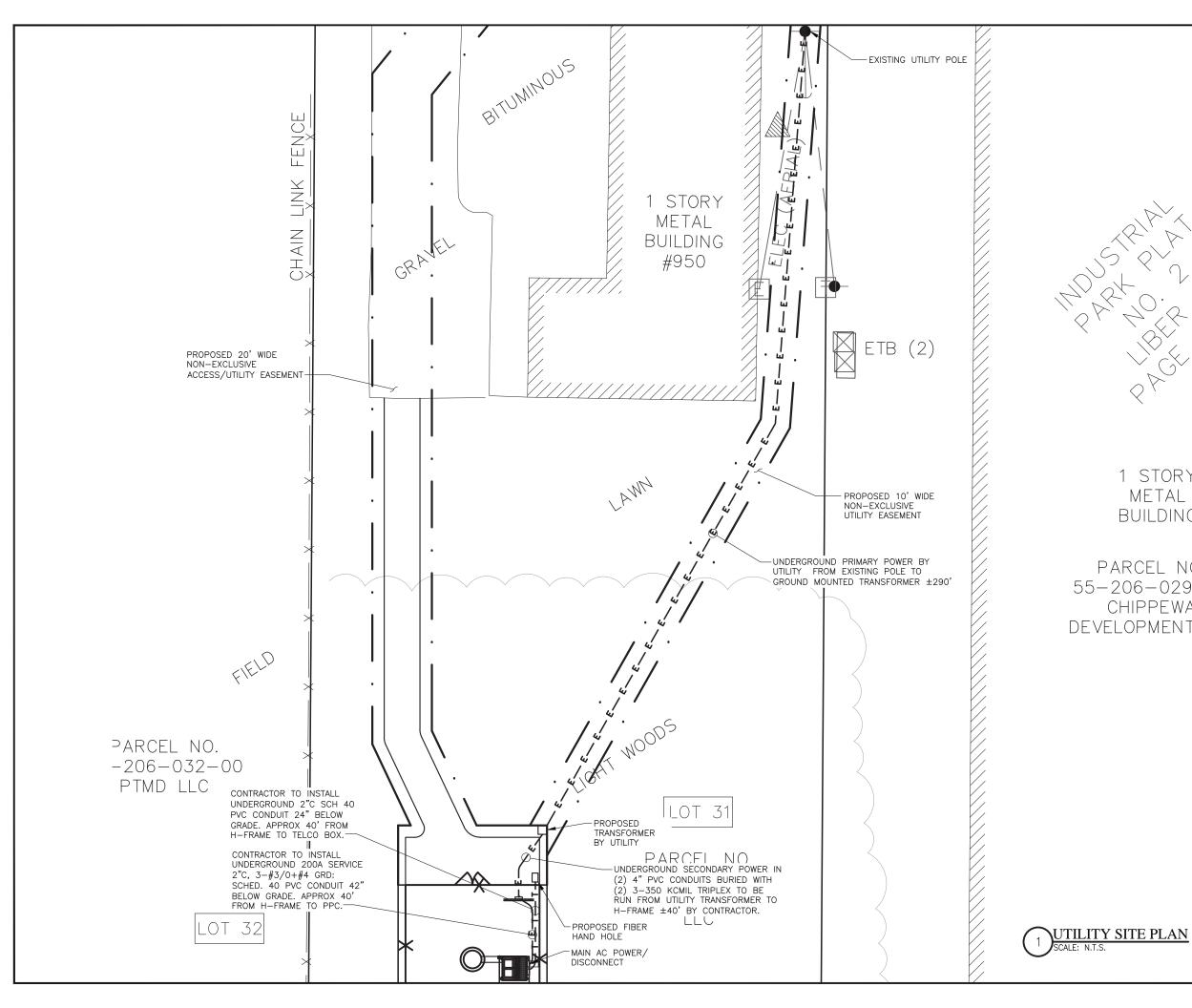


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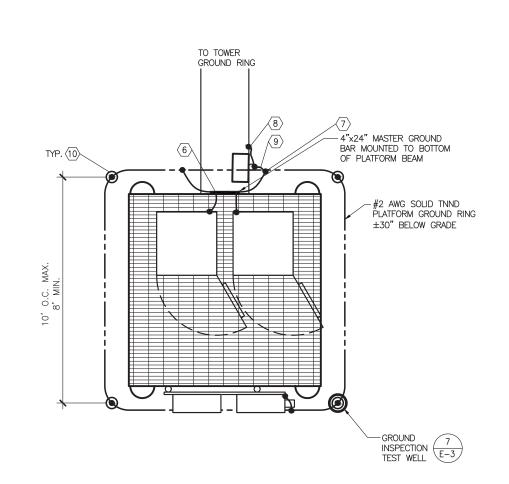




1 STORY METAL BUILDING

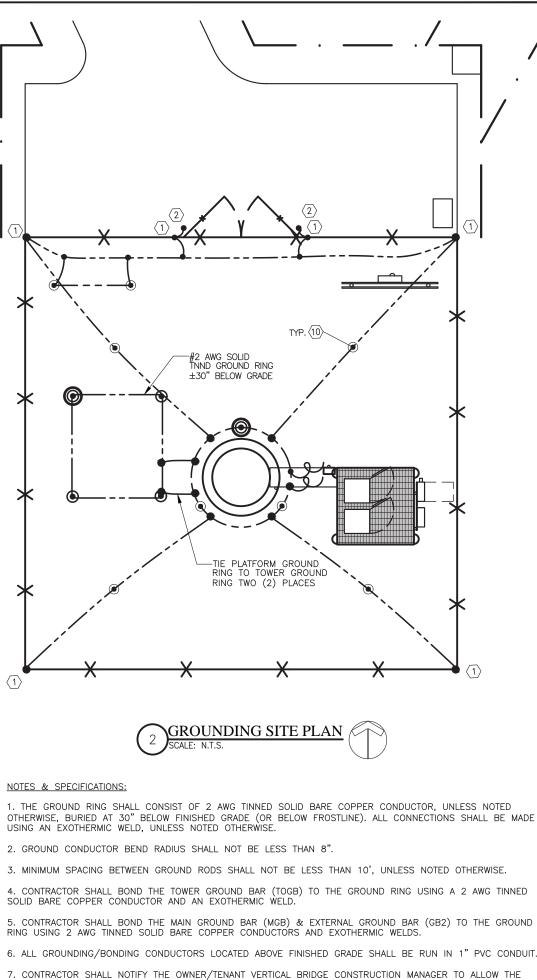
PARCEL NO. 55-206-029-00 CHIPPEWA DEVELOPMENT INC

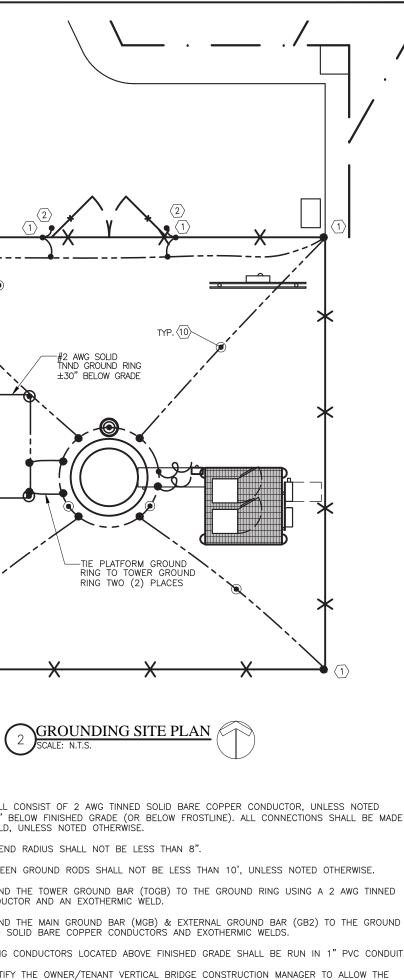






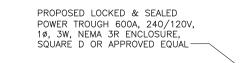
- (1) FENCE GROUND: E.C. TO FURNISH AND INSTALL #2 AWG BARE SOLID TNND COPPER GROUND WIRE AT FENCE POST. GROUND wire to be routed along fence post and cadwelded four (4) places, top rail, top and bottom of corner post, AND GROUND RING.
- (2) GATE GROUND: SIMILAR TO FENCE GROUND (FG), E.C. SHALL ALSO FURNISH AND INSTALL #2 BRAIDED GATE JUMPER WIRE BETWEEN THE GATE FRAME AND THE GATE POST. CONNECTIONS AT GATE FRAME AND GATE POST TO BE CADWELD.
- $\overline{(3)}$  Tower ground: e.c. to furnish and install two (2) #2 awg bare solid tind copper ground wires from base of tower or tower legs to tower ground ring. All connections to be cadweld.
- TOWER GROUND BAR: E.C. TO FURNISH AND INSTALL TWO (2) 20"x4"x1/4" TNND COPPER GROUND BARS ON THE TOWER. ONE TO BE LOCATED AT ANTENNA MOUNT ELEVATION (ATTACHED TO TOWER STEEL), THE OTHER AT THE BASE OF THE TOWER ADJACENT TO THE ICE BRIDGE (ISOLATED FROM TOWER STEEL).
- (5) TOWER COAX GROUND: E.C. TO FURNISH AND INSTALL TWO (2) #2 AWG BARE SOLID TNND COPPER GROUND WIRES FROM TOWER GROUND BAR (TGB) TO GROUND RING. ALL CONNECTIONS TO BE CADWELD.
- (6) PLATFORM MASTER GROUND BAR: G.C. FURNISHED AND INSTALLED 24"x4"x1/4" TNND COPPER GROUND BAR ON PLATFORM.
- PLATFORM MASTER GROUND BAR GROUND: E.C. TO EXTEND TWO (2) MANUFACTURER FURNISHED AND INSTALLED #2 AWG BARE SOLID TNND COPPER GROUND WIRES FROM THE MASTER GROUND BAR (MGB) TO GROUND RING. ALL CONNECTIONS TO BE CADWELD.
- (8) ICE BRIDGE CHANNEL GROUND: E.C. TO FURNISH AND INSTALL ONE (1) #2 AWG BARE SOLID TNND COPPER GROUND JUMPER WIRE FROM ICE BRIDGE CHANNEL TO ICE BRIDGE SUPPORT POST. ALL CONNECTIONS TO BE CADWELD.
- (9) ICE BRIDGE SUPPORT GROUND: E.C. TO FURNISH AND INSTALL ONE (1) #2 AWG BARE SOLID TNND COPPER GROUND WIRE FROM ICE BRIDGE SUPPORT POST TO GROUND RING. ALL CONNECTIONS TO BE CADWELD.
- (10) 5/8" DIA. x 10' LONG TNND COPPER CLAD STEEL GROUND ROD DRIVEN VERTICAL TOP OF ROD 30" MIN. BELOW GRADE. SPACING OF GROUND RODS 10' MAX. ALL CONNECTIONS TO BE CADWELD.

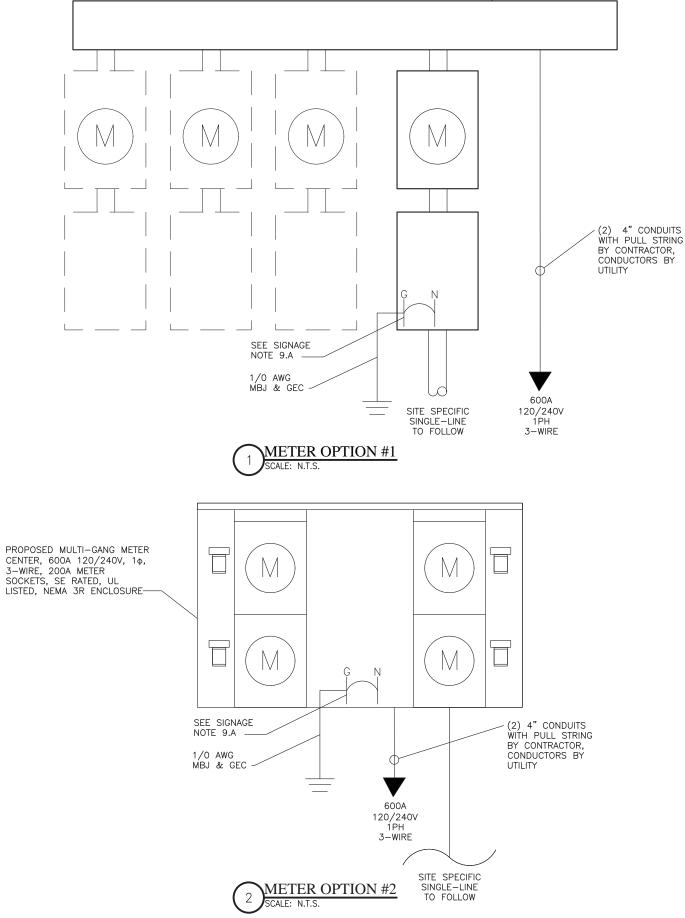




OWNER/TENANT VERTICAL BRIDGE CONSTRUCTION MANAGER TO INSPECT THE GROUNDING SYSTEM PRIOR TO **BACKEIÍ LING** 







NOTES & SPECIFICATIONS:

1. ELECTRIC UTILITY WILL PROVIDE METER AND INCOMING SERVICE LATERAL CONDUCTORS FOR PRIMARY SERVICE. SECONDARY SERVICE TO BE PROVIDED BY CONTRACTOR.

2. ALL ELECTRICAL WORK SHALL COMPLY WITH NEC, STATE, AND LOCAL CODES.

3. CONTRACTOR SHALL OBTAIN OWNER/TENANT EQUIPMENT SHELTER DRAWINGS AND REVIEW FOR ADDITIONAL DETAILS AND REQUIREMENTS THAT MAY NOT BE SHOWN IN THESE DRAWINGS. CONTRACTOR SHALL COMPLY WITH ANY ADDITIONAL OWNER/TENANT SPECIFICATIONS AND REQUIREMENTS THAT MAY BE ADDRESSED IN THE EQUIPMENT DRAWINGS.

4. PRIOR TO PURCHASING EQUIPMENT, THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY AND OBTAIN IN WRITING THE MAXIMUM AVAILABLE FAULT CURRENT AT THE UTILITY SERVICE POINT. PROVIDE MAX AFC SIGNAGE AS REQUIRED PER NEC 110.24. THE CONTRACTOR SHALL ENSURE ALL ELECTRICAL EQUIPMENT, CIRCUIT BREAKERS, DISCONNECTS, FUSES, AND PANELBOARDS HAVE A FAULT CURRENT INTERRUPTING RATING GREATER THAN THE AVAILABLE FAULT CURRENT. THE FAULT CURRENT INTERRUPTING RATING SHALL BE GREATER THAN THE MAXIMUM AVAILABLE FAULT CURRENT. IN NO CASE SHALL THE FAULT CURRENT INTERRUPTING RATING BE LESS THAN 22,000 AMPS.

5. THE GROUNDED SERVICE CONDUCTOR (NEUTRAL CONDUCTOR) SHALL BE GROUNDED AT THE SERVICE DISCONNECT ONLY.

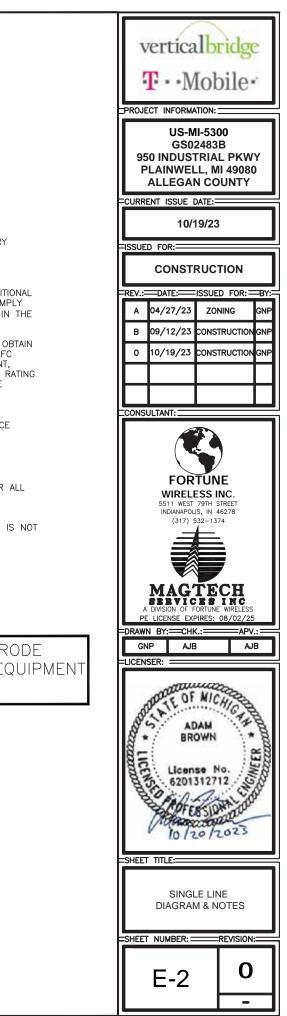
6. ALL EQUIPMENT CARRIER POWER CIRCUITS SHALL USE COPPER CONDUCTORS WITH THHN/THWN INSULATION. ALL TERMINATIONS SHALL BE RATED FOR AT LEAST 75 DEGREES C.

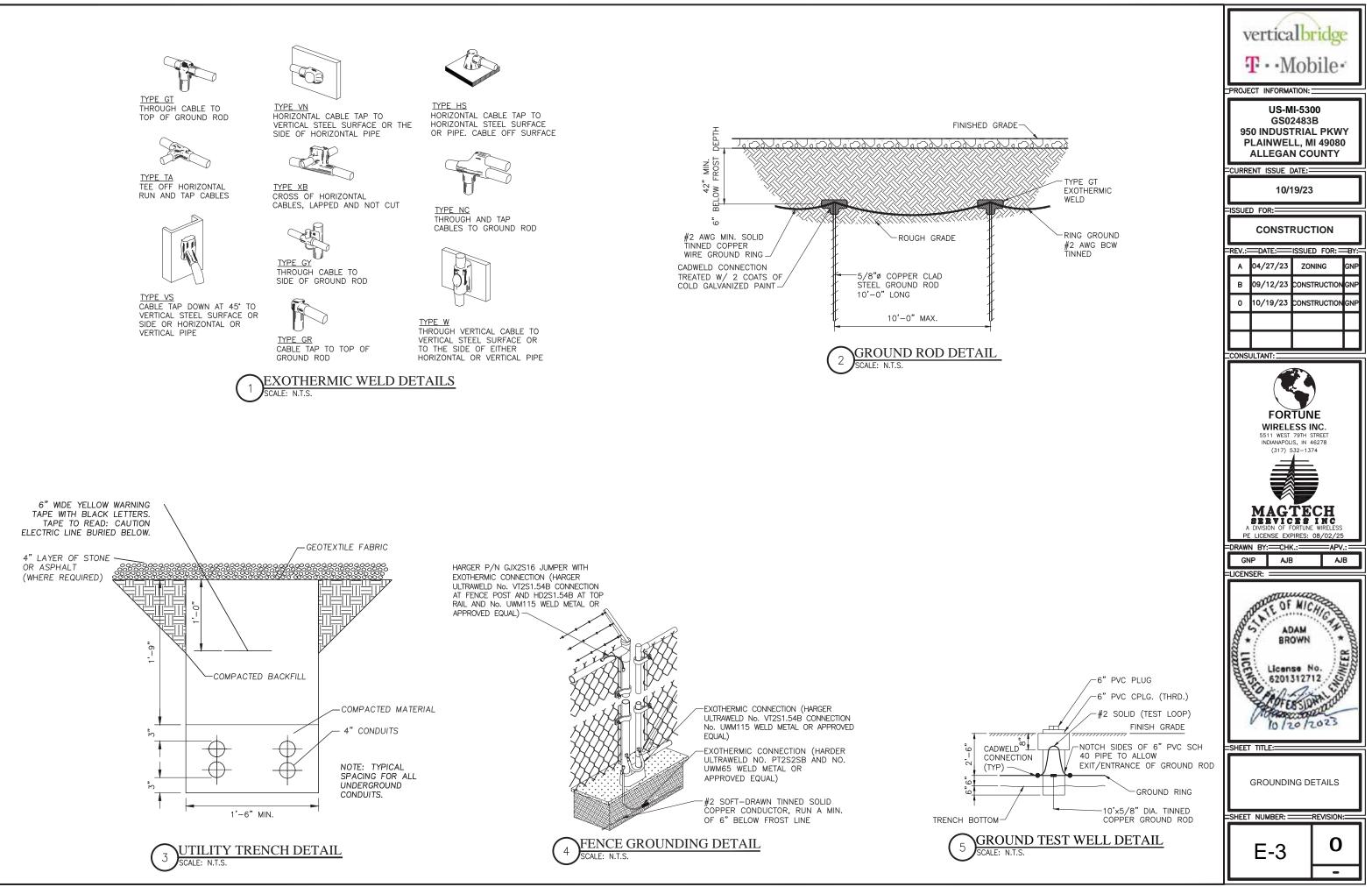
7. CONTRACTOR SHALL PROVIDE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLES FOR ALL UTILITY RECEPTACLES.

8. CONTRACTOR SHALL ENSURE ALL NEUTRAL CONDUCTORS HAVE WHITE INSULATION AND EQUIPMENT GROUND CONDUCTORS HAVE GREEN INSULATION. COLOR TAPE IDENTIFICATION OF THESE CONDUCTORS IS NOT ALLOWED.

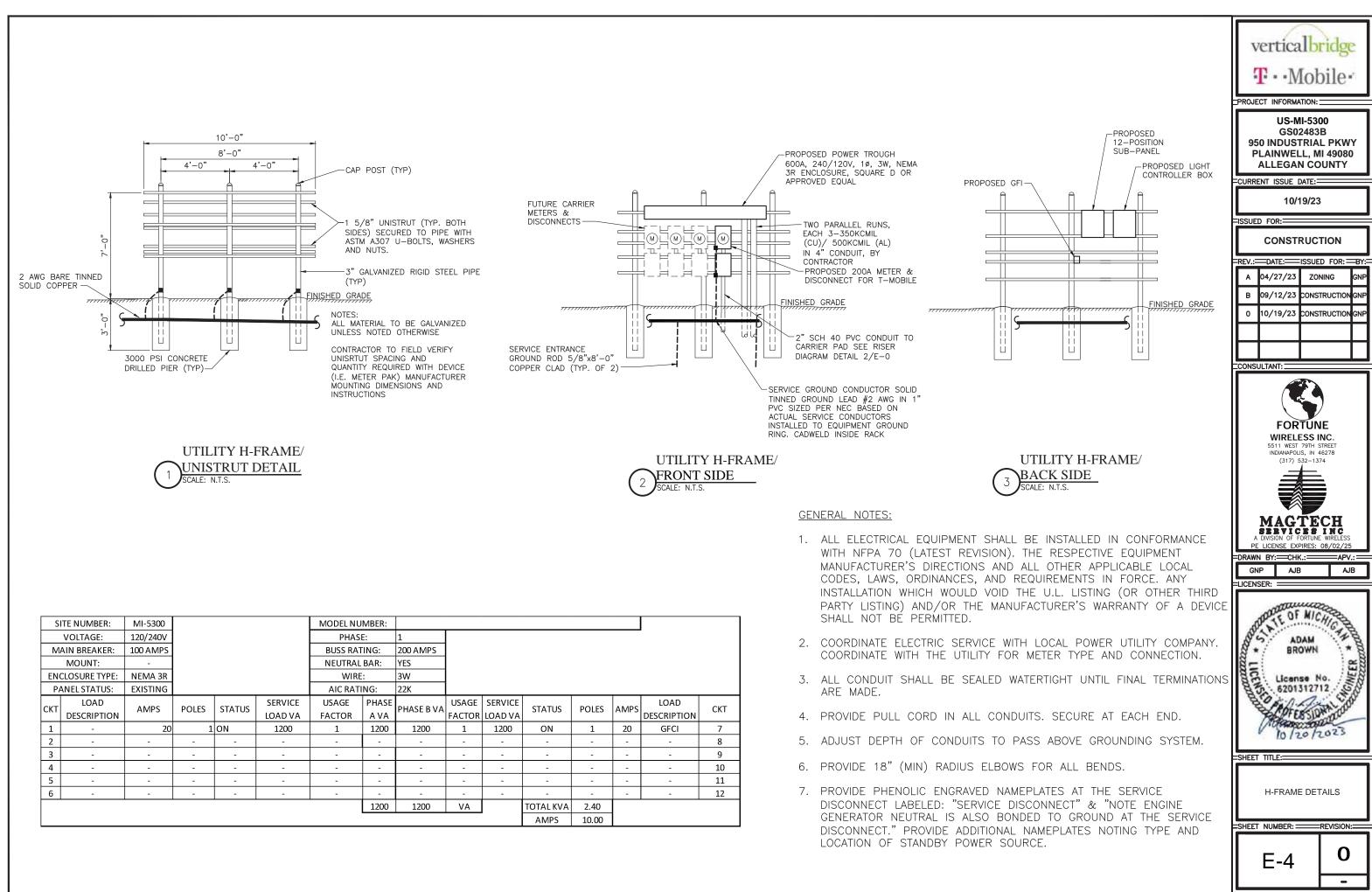
9. PER NEC ART 702 PROVIDE SIGNAGE AS FOLLOWS: A) AT SERVICE DISCONNECT

WARNING - SHOCK HAZARD EXISTS IF GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE ALTERNATE SOURCE(S) IS ENERGIZED.

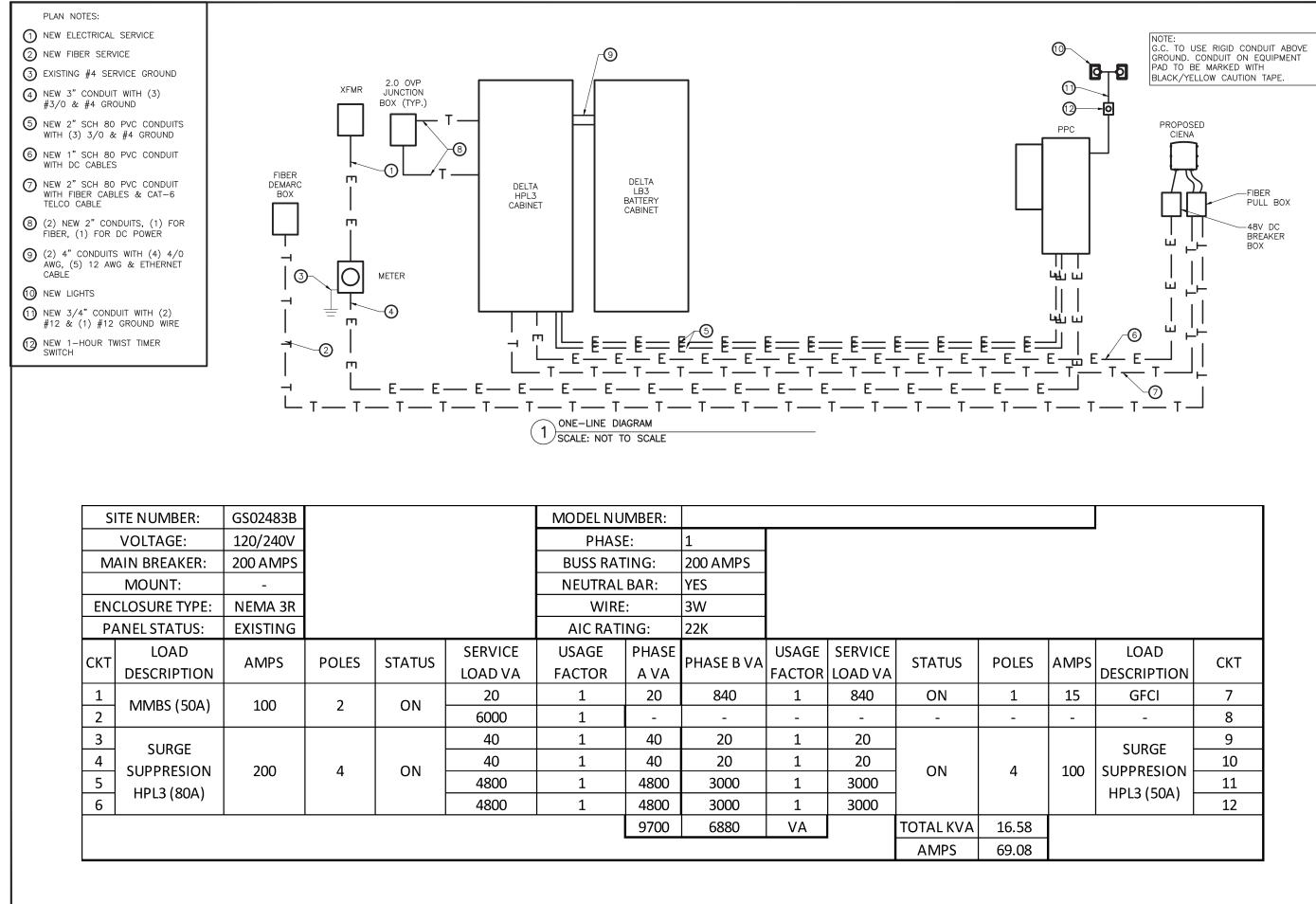




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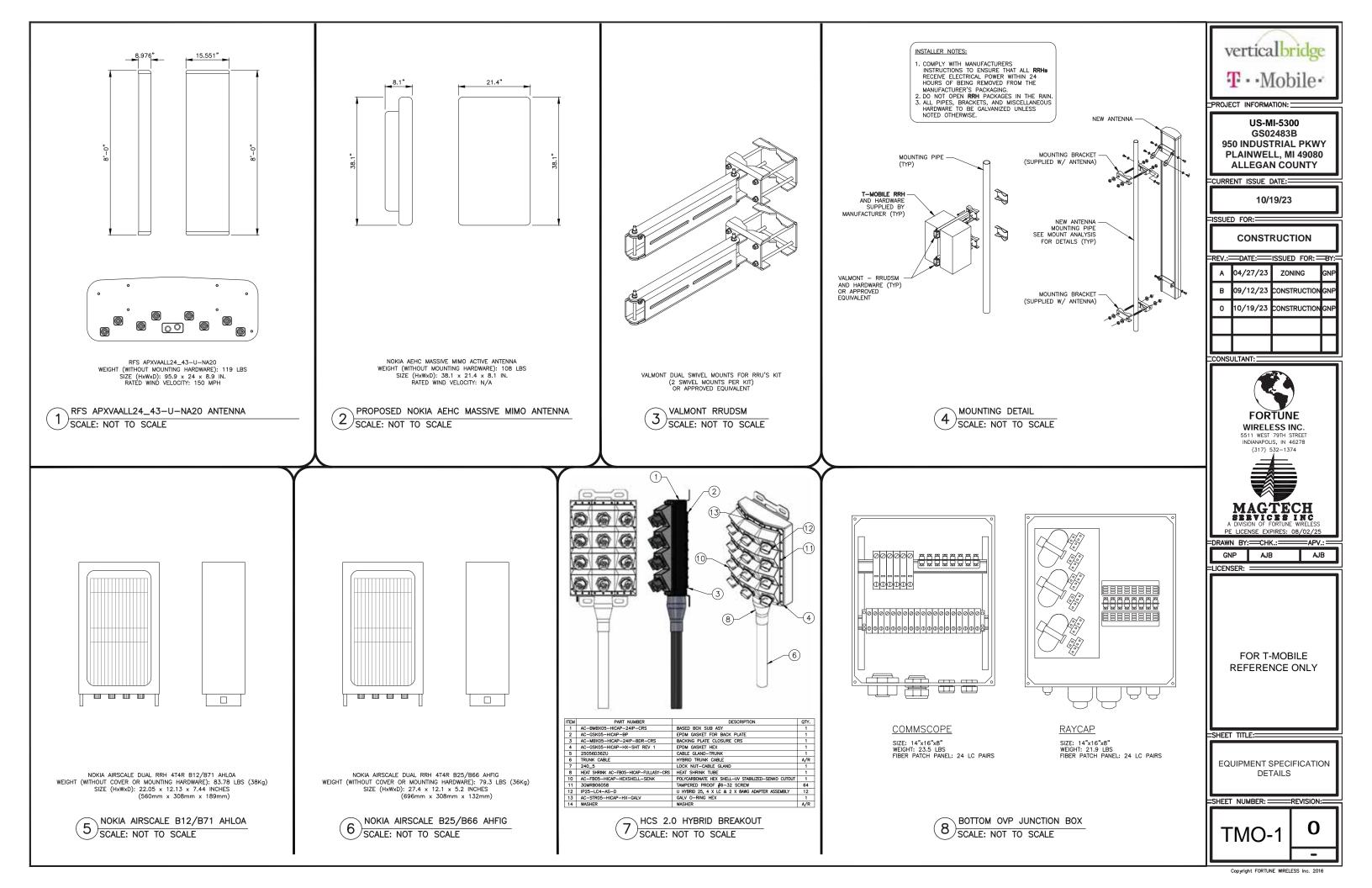
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PANEL SCHEDULE

2) SCALE: NOT TO SCALE





# DELTA HPL3 POWER CABINET SPECIFICATIONS SCALE: NOT TO SCALE



# Large Battery 3 Cabinet

### Product Features

Compact design for battery strings:

- · Direct air cooling solution
- Supports four strings of -48V VRLA batteries up to 210Ah
- 600A rated bus bar with 200A breaker per string
- Bulk Input / Output with ability to daisy chain cabinets
- Front to Front Air Flow
- · Corrosion resistant aluminum construction
- · Powder coated high gloss finish
- · Designed to meet GR-487

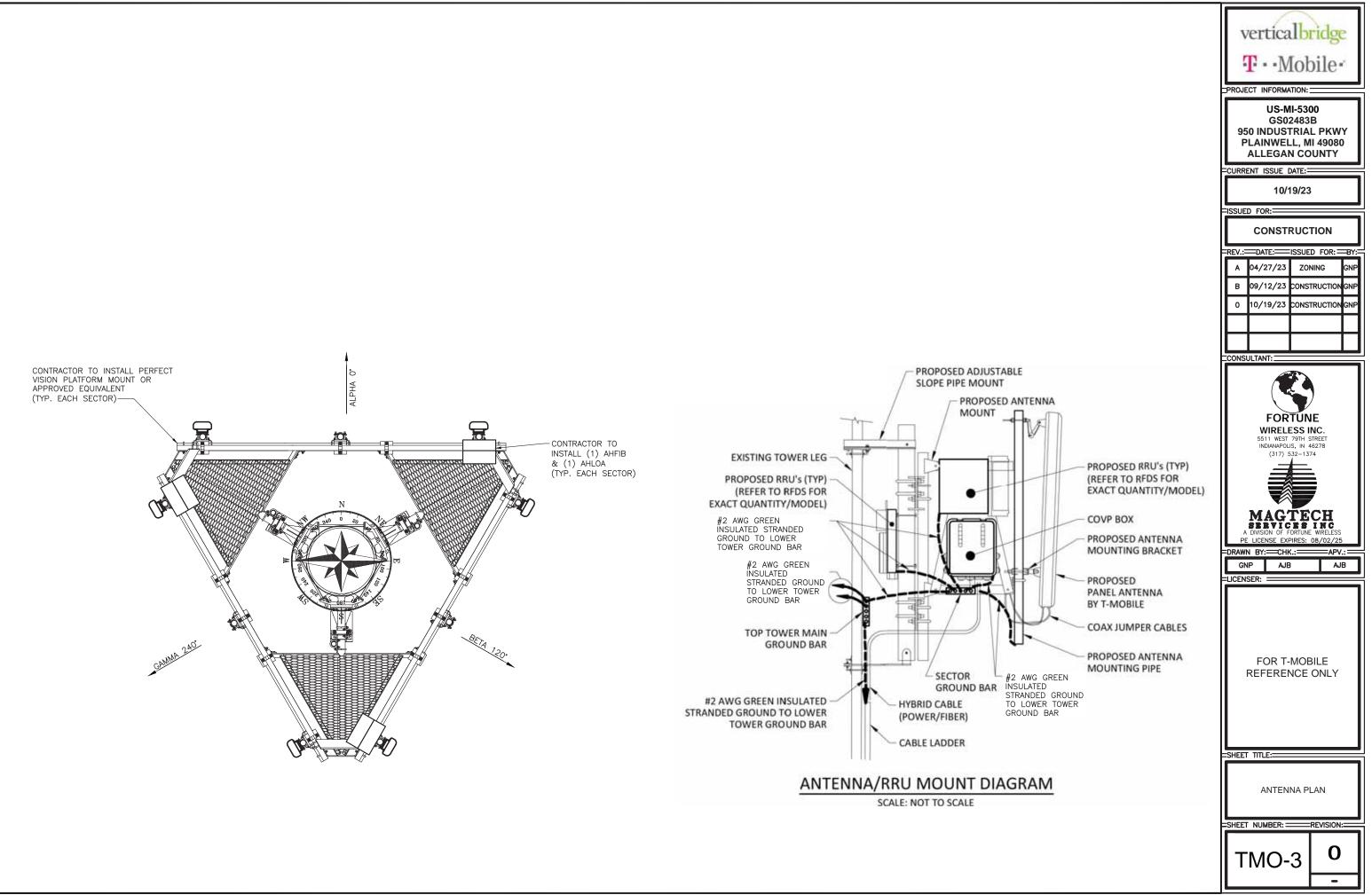
# Specifications

Model	LB3 (Large Battery 3 Cabinet)	Standard equipment
1. General		
Construction	Aluminium enclosure	
Dimensions	30 x 72 x 35 in. (381 x 1829x 889mm),	
(W x H x D)	Depth with Door; 41.2 in. (1047mm)	
Weight	~540 lbs (~245kg) (without batteries)	
Internal rack dimension	4 battery trays to support up to 4 strings 210Ah batteries	
Mounting options	Pad-mount, plinth option	
Finish	Polyester Power Paint (Tan)	
Safety	UL Listed , IEC / EN 60950	and the second se
2. Environment		Front Door:
Operating temperature	-40°C to +50°C (-40°F to +122°F) with solar load	
Protection class	IP55 designed to GR-487	5. Ordering information
Acoustics	65dBA	Cabinet
Humidity (relative)	95%, non-condensing (Max.)	Plinth, 6*
3. Thermal Manageme	nt	t minut o
Cooling Equipment:	Direct Air Cooling	DELTA LARGE BATTERY
Heating Equipment:	Forced air heating (1) 1000W AC heaters	(2)
		SCALE: NOT TO SCALE

	Knock-out plate on each upper side wall	1
Cable entry	Additional knockouts each side	1.0
Door latch	3 point latching, 5/16 nut driver tool, pad-locking capability	ST Small
Primary ground	10 double-hole ¼*-20 threaded holes on 5/8* center ground bar	1.2.23
ifting Ears	4 Lifting Tabs	1 1 1 1 2 5
linth	Optional 6" plinth available	((1))
	AC Load Center:	Sec. 10
	30A heater breaker	- 1A
	Left or Right side AC entry options	
	AC Surge Protection (option)	
	DC Load Center:	1.0
	600A bulk feed bus bar	
	(4) 200A bolt in battery breakers	
Standard equipment	(4) 2-hole lug landings, (2 output/2 input from second battery cabinet)	
	Temp Probes	
	Battery Trays:	
	(4) battery trays	
	(4) -48V battery strings (210Ah max each)	
	Connection kit:	
	(1) DC 10A Breaker supplied (install onto HPL3 Power Cabinet)	
	LED interior cabinet light	
	(2) DC powered Axial fans with (1) F5 Filters	
Front Door:	Door intrusion alarm	
	(1) 1000W AC powered heaters	
. Ordering informati	an	
Cabinet	ESOF015-ECV04 Large Battery 3 (LB3) Cabinet	
Plinth, 6*	37993318816900-S Plinth for V1/V2, HPL2, HPL3, LB2 and LB3	

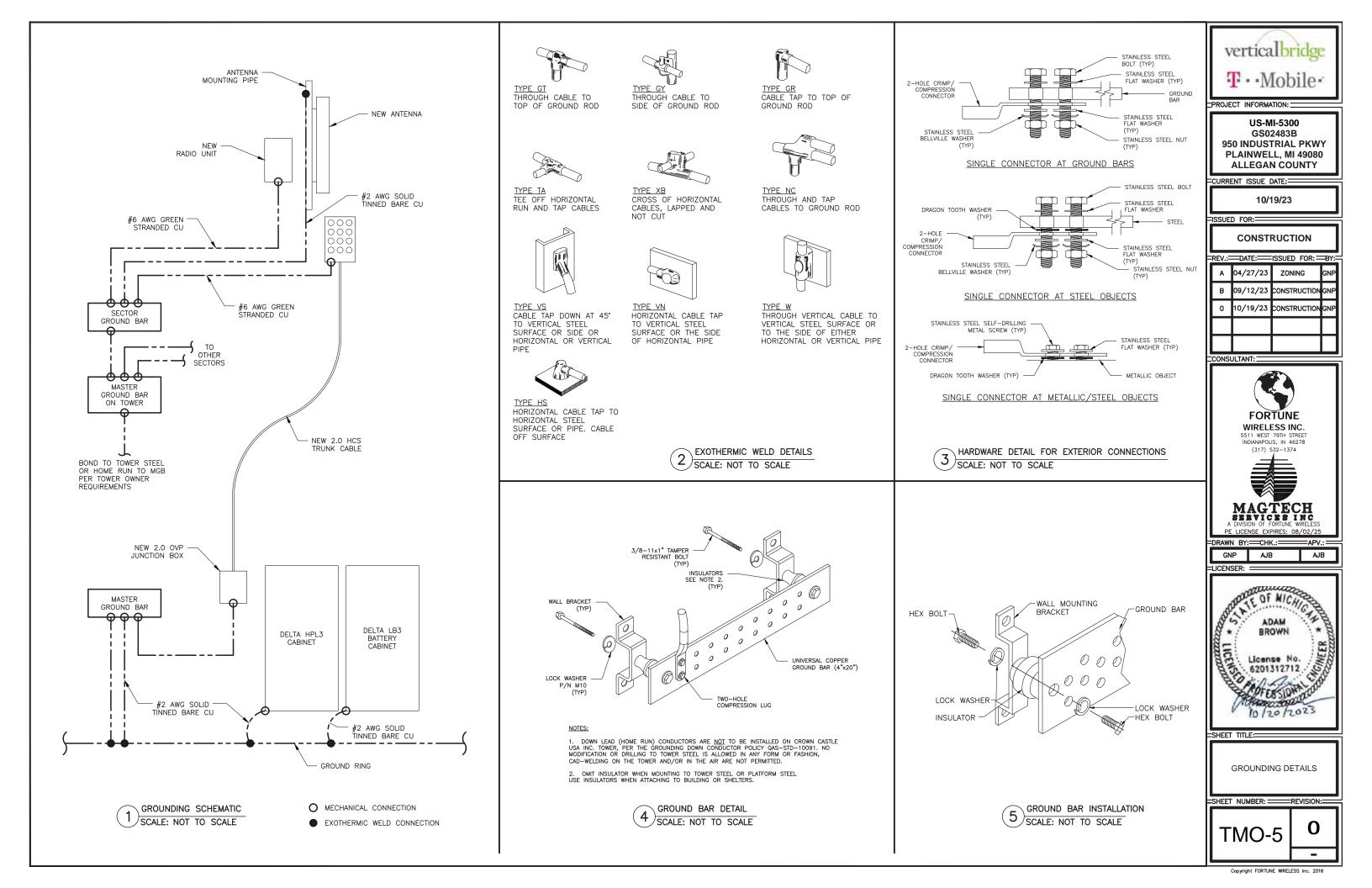


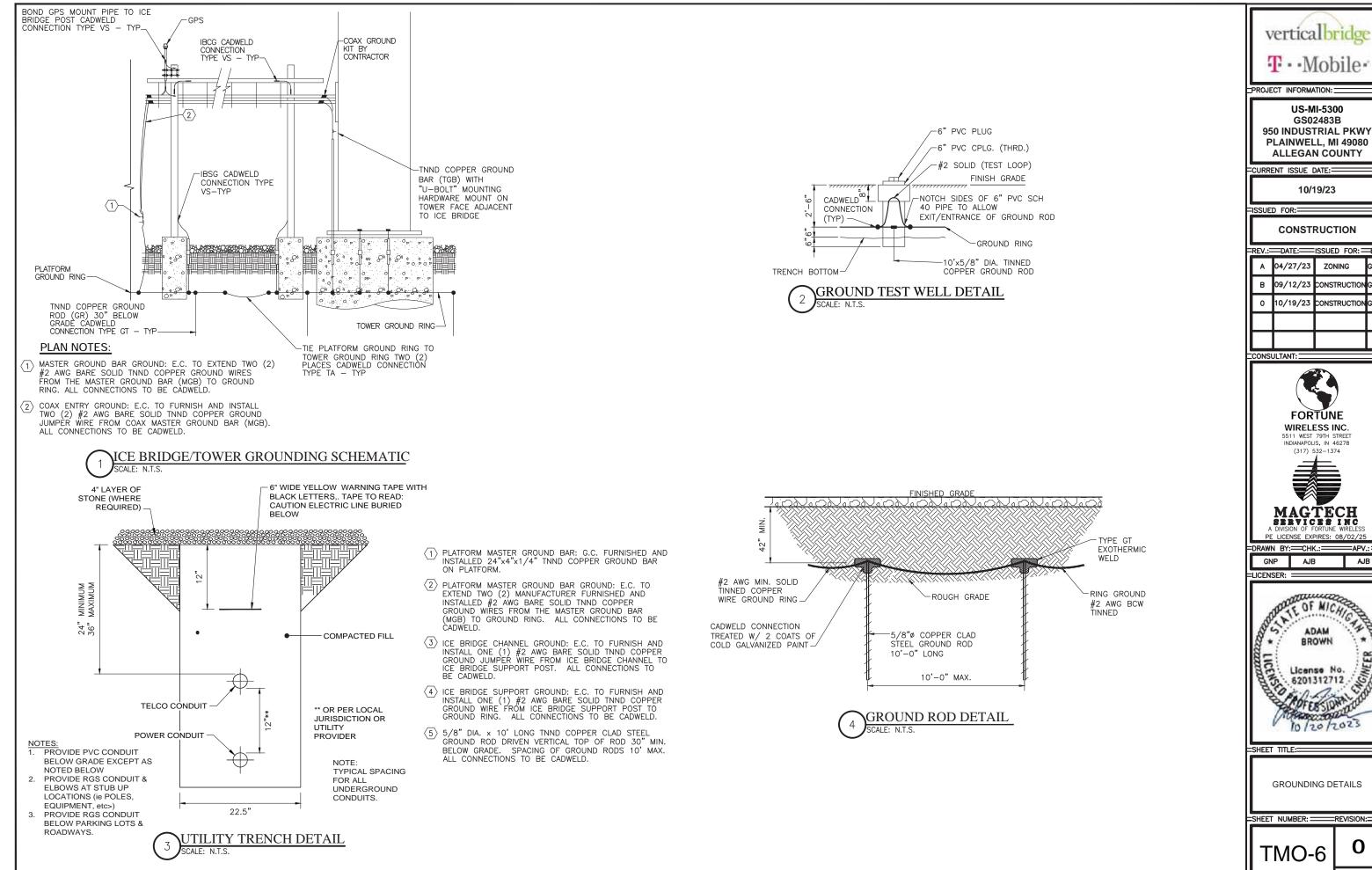
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SECTOR	ANTENNA MARK	ANTENNA MAKE/ NUMBER	MODEL	AZIMUTH (0° = NORTH)	RAD CENTER	RRU MODEL NUMBER	TOWER TOP COVP MODEL	ANTENNA CABLE DESCRIPTION	ANTENNA CABLE LENGTH
	A1	-		-	-	-			
ALPHA	A2	RFS APXVAALL24_43-U-NA20 (OCTO)         AEHC (ACTIVE ANTENNA - MASSIVE MIMO)         -		0°	190'-0"	(1) AHLOA / (1) AHFIG	- - -	(2) 1.58" HIGH CAPACITY HYBRID CABLE (NEW)	±225'
	A3			0°	190'-0"	-			
	-			-	-	-			
BETA -	B1	-		-	-	-			
	B2	RFS APXVAALL24_43-U-NA20 (OCTO)         AEHC (ACTIVE ANTENNA - MASSIVE MIMO)         -		120°	190'-0"	(1) AHLOA / (1) AHFIG			
	B3			120°	190'-0"	-			
	-			-	-	-			
	G1	-		-	-	-			
GAMMA	G2	RFS APXVAALL24_43-U-NA20	(OCTO)	240°	190'-0"	(1) AHLOA / (1) AHFIG			
	G3	AEHC (ACTIVE ANTENNA - M	, ,	240°	190'-0"	-			
	-	-	,		_	-			
	TOV		IARY						
	REMOVED QUANTITY		ADD QUANTITY	TOTAL QUANTITY					
-	-	PANEL ANTENNA	6	6					
-	-	HYBRID CABLE	2	2					
-		AHLOA	-	3					
-	-	AHFIG	-	3					
		NOTES							
	COLOR	CHART 1. A	NTENNA PORT N DOKING AT THE	BACK OF THE ANTENN		FROM RIGHT TO LEFT WHI WHEN LOOKING AT THE F			
DESIGNA		CHART 1. AL	NTENNA PORT N DOKING AT THE THE ANTENNAS EFER TO TABLE	BACK OF THE ANTENN ;) ON COLOR CODING DI	AS (FROM LEFT AGRAM FOR SEC	WHEN LOOKING AT THE F	FRONT		
DESIGNA	ΓΙΟΝ	CHART 1. AL COLOR 2. R SED 3. C	NTENNA PORT N DOKING AT THE THE ANTENNAS EFER TO TABLE ANDS SHALL MA DNTRACTOR SHA	BACK OF THE ANTENN ;) ON COLOR CODING DI ;CH THE PORT NUMBE	AS (FROM LEFT AGRAM FOR SEC R AS DETERMINE PECIFIC FIBER A	WHEN LOOKING AT THE F TOR COLOR. NUMBER OF ED BY NOTE #1. ND ANTENNA MATRIX FROM	FRONT COLOR		
		CHART COLOR RED GREEN 1. AL COLOR 2. R B. 3. C T. 4. U SI	NTENNA PORT N DOKING AT THE THE ANTENNAS FER TO TABLE ANDS SHALL MA DNTRACTOR SHA -MOBILE CONSTI PON COMPLETIO TE SPECIFIC FIE	BACK OF THE ANTENN DON COLOR CODING DI TCH THE PORT NUMBE LL REQUEST A SITE S VUCTION MANAGER PR OF SITE WORK, CON	AS (FROM LEFT AGRAM FOR SEC R AS DETERMINE PECIFIC FIBER AI OR TO CONSTRL ITRACTOR SHALL	WHEN LOOKING AT THE F TOR COLOR. NUMBER OF ED BY NOTE #1. ND ANTENNA MATRIX FROM	FRONT COLOR M THE ER THE		
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# MINUTES Plainwell City Council October 09, 2023

- 1. Mayor Keeler called the regular meeting to order at 7:00 PM in City Hall Council Chambers.
- 2. No invocation was given.
- 3. Pledge of Allegiance was given by all present.
- Roll Call: Present: Mayor Keeler, Councilmember Overhuel, Councilmember Wisnaski and Councilmember Keeney. Absent: Mayor Pro-Tem Steele A motion by Wisnaski, seconded by Overhuel, to excuse Mayor Pro-Tem Steele from the proceedings. On a voice vote, all voted in favor. Motion passed.
- 5. Approval of Minutes:

A motion by Keeney, seconded by Wisnaski, to accept and place on file the Council Minutes of the September 25, 2023 regular meeting. On a voice vote, all voted in favor. Motion passed.

- 6. Public Comment: None
- 7. Presentation:

# 2023 Chris Haas Volunteer of the Year Award

Community Development Manager Siegel read the letter nominating Gail Hill to receive this year's award. The Haas Family presented Gail Hill with the 2023 Chris Haas Volunteer of the Year Award for her various charitable and community endeavors which have supported and enriched the Plainwell community for many years. Gail exemplifies the characteristics that the Chris Haas Volunteer of the Year Award represents. Thank you, Gail, for all you do!

- 8. County Commissioner Report: None
- 9. A motion by Keeney, seconded by Overhuel, to approve the Agenda for the October 09, 2023 meeting as presented. On a voice vote, all voted in favor. Motion passed.
- 10. Mayor's Report: Mayor Keeler stated that the Mayor Pro Tem Steele and her husband are in his thoughts at this time. He stated that Dean's has closed for the season.
- 11. Recommendations and Reports:
  - A. Community Development Manager Siegel provided Council with the Planning Commission recommendation to approve the rezoning of property at 377 N. Main St.
     A motion by Overhuel, seconded by Keeney, to approve rezoning the property at 377 N. Main St. from CS community service to R1C residential. On a roll call vote, all in favor. Motion passed.

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 B. Community Development Manager Siegel discussed Planning Commission Resolution 23-01, Approval of the 2023-2027 Plainwell Master Plan.

A motion by Keeney, seconded by Wisnaski, to approve Planning Commission Resolution 23-01. On a roll call vote, all voted in favor. Motion passed.

- C. Superintendent Pond discussed proposals for Biannual Lift Station Cleaning. All proposals presented are 3-year contracts.
   A motion by Wisnaski, seconded by Keeney, to approve the 3-year contract with Plummers Environmental Services for \$85,352.82. On a roll call vote, all voted in favor. Motion passed.
- D. Superintendent Pond discussed proposals for Preventative Maintenance covering all City Generators. All proposals are 3-year contracts.

A motion by Overhuel, seconded by Wisnaski, to approve the 3-year contract with Cummins Sales and Service for \$29,530.44. On a roll call vote, all voted in favor. Motion passed.

12. Communications:

A motion by Keeney, seconded by Wisnaski, to accept and place on file the September 2023 Investment and Fund Balance Reports, and the draft October 04, 2023 Planning Commission Meeting Minutes. On a voice vote, all voted in favor. Motion passed.

13. Accounts Payable:

A motion by Wisnaski, seconded by Keeney, that the bills be allowed and orders drawn in the amount of \$184,194.35 for payment of same. On a roll call vote, all voted in favor. Motion passed.

- 14. Public Comments: None
- 15. Staff Comments:

Finance Director Kelley stated that the auditors are here through Thursday, and that the audit is going well.

Personnel Coordinator Kersten had nothing to report.

Superintendent Nieuwenhuis stated that loose leaf pick up began today and runs through November 19<sup>th</sup>.

Community Development Manager Siegel reported on the RFQ invite only luncheon happening on November 2<sup>nd</sup>, 2023 at noon. The event will bring developers and contractors together, and include a walkthrough of the old Paper Mill property. Plainwell is partnering with West Michigan Builder's Association and MEDC to bring awareness to this event. She discussed a grant through MEDC that she is working on, and gave an update on Ladies Night. The Farmer's Market has moved indoors.

Superintendent Pond shared that Thursday's rain was a good test of Plainwell's storm system. Normal pump station load is ~400k gallons, with the storm pushing output to ~1.8 million gallons. The DPW assisted is some areas where drainage was compromised.

Public Safety Director Callahan discussed the new DPS Rescue Boat, stating that performance in shallow water exceeded expectations. He stated that DPS assisted about 150 Gilkey Elementary students this morning by providing a safe travel route and guidance during their bike ride. He shared that Plainwell's Homecoming parade is this week, and offered prayers to Lori and her family.

City Clerk Leonard had nothing to report.

City Manager Lakamper stated that Taplin will begin chemical stripping work this week. He discussed the RFQ luncheon event. He provided a timeline for bidding on the Old Orchard project- bids will he accepted starting October 16<sup>th</sup>, 2023 and lasting through November 16<sup>th</sup>, 2023, with an anticipated start date of spring, 2024. He stated that water meter change out will begin in January, 2024. Residents will receive information with their upcoming water bills. An appointment will need to be scheduled, and someone will need to be at the residence during meter exchange. There will be some Saturday appointments available as well. The dam project is currently at a standstill. Quotes were sought from two Splash Pad providers. The cost of construction was estimated at 170k, with a yearly maintenance cost of ~10k. It was also noted that water run-off from the Splash Pad would need to be treated through the sewer system.

# 16. Council Comments:

Councilmembers are thinking of the Steele family at this time.

# 17. Adjournment:

A motion by Keeney, seconded by Wisnaski, to adjourn the meeting at 7:37 PM. On a voice vote, all voted in favor. Motion passed.

Minutes respectfully submitted by, Ginger J Leonard City Clerk MINUTES APPROVED BY CITY COUNCIL October 23, 2023

mard

Ginger J Leonard, City Clerk

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