

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.

TILLMAN

INFRASTRUCTURE

TILLMAN OPP NUMBER: TI-OPP-23028
SITE NAME: STRITZEL RENTAL
SITE ADDRESS: 312 ELKHORN ROAD
WHITEWATER, WI 53190
PID: A91900003
FA# : 15887152

SCAN FOR DRIVING DIRECTIONS



SITE INFORMATION

SITE ADDRESS: 312 ELKHORN ROAD
WHITEWATER, WI 53190

LATITUDE (NAD 83): 42°49'50.10234" (42.83056204)
LONGITUDE (NAD 83): -88°42'39.2480" (-88.71090223)

GROUND ELEVATION: 829.94' (AMSL)

JURISDICTION: CITY OF WHITEWATER

JURISDICTION CONTACT: CHRIS BENNETT
EMAIL: CBENNETT@WHITEWATER-WI.GOV
262-473-0142

PARCEL/MAP NUMBER: A91900003

PARCEL OWNER: STRITZEL RENTAL PROPERTIES LLC
TBD

TOWER OWNER: TILLMAN INFRASTRUCTURE
152 W. 57TH STREET
NEW YORK, NEW YORK 10019

STRUCTURE TYPE: SELF SUPPORT TOWER

STRUCTURE HEIGHT: 195'-0" (AGL)

POWER SUPPLIER: WE ENERGIES
800-242-9137

FIBER SUPPLIER: TBD
TBD

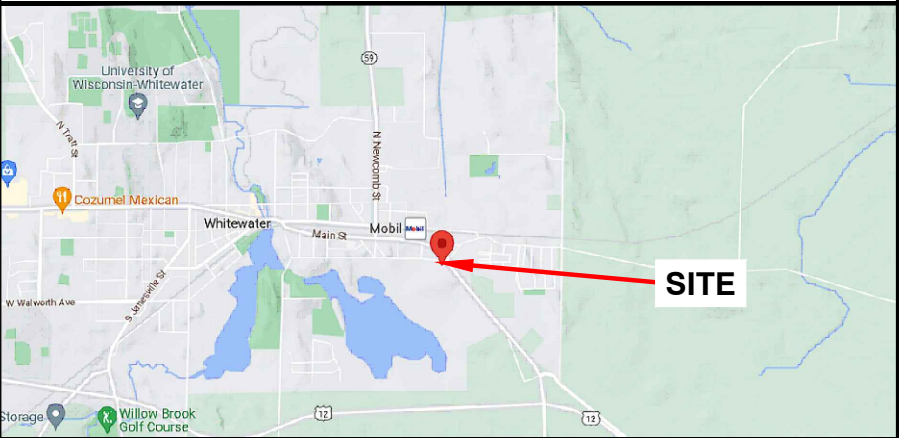
PROJECT TEAM

APPLICANT: TILLMAN INFRASTRUCTURE
152 W. 57TH STREET
NEW YORK, NEW YORK 10019

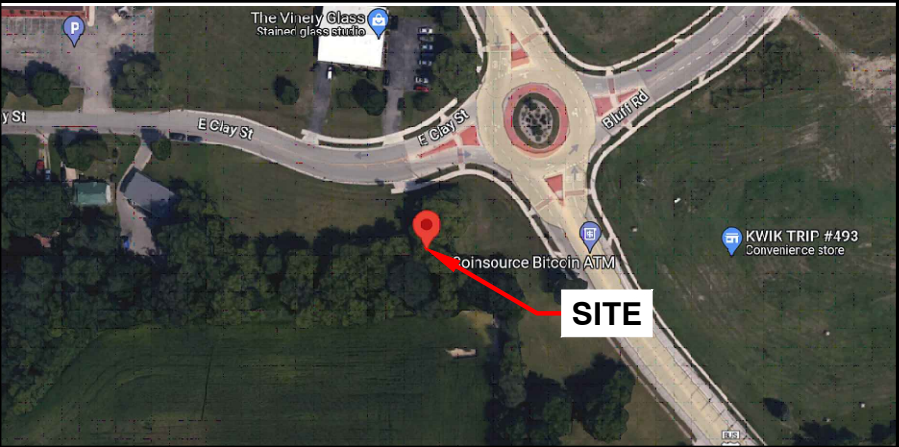
PROJECT MANAGEMENT FIRM: LCC TELECOM SERVICES
10700 HIGGINS ROAD, SUITE 240
ROSEMONT, IL 60018
(847) 608-6300

ARCHITECT ENGINEERING: JOHN M. BANKS
604 FOX GLEN
BARRINGTON, IL 60010
CONTACT: JOHN M. BANKS
PHONE: (847) 277-0070
EMAIL: JBANKS@WESTCHESTERSERVICES.COM

VICINITY MAP



LOCATION MAP



CODE COMPLIANCE

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 CODES.

- 2023 WISCONSIN STATE BUILDING CODE
- 2023 WISCONSIN STATE ELECTRICAL CODE
- 2023 WISCONSIN STATE MECHANICAL CODE
- 2023 WISCONSIN UNIFORM PLUMBING CODE
- 2023 WISCONSIN STATE FIRE CODE
- AMERICAN CONCRETE INSTITUTE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- MANUAL OF STEEL CONSTRUCTION 13TH EDITION
- ANSI/TIA-222-H
- TIA 607
- INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEERING 81
- IEEE C2 NATIONAL ELECTRIC SAFETY CODE
- LATEST EDITION
- TELECordia GR-1275

DRAWING INDEX

- T-1 TITLE SHEET
- B-1 SITE SURVEY
- C-1 OVERALL SITE PLAN
- C-2 ENLARGED SITE PLAN
- C-3 ELEVATION
- C-4 CONSTRUCTION DETAILS
- C-5 FENCE DETAILS
- C-5.1 FENCE DETAILS
- C-6 SITE SIGNAGE
- C-7 GRADING PLAN
- C-8 EROSION CONTROL DETAILS
- C-9 LANDSCAPE PLAN
- E-1 UTILITY PLAN
- E-2 ENLARGED UTILITY PLAN
- E-3 ELECTRICAL DIAGRAM
- G-1 GROUNDING PLAN & DETAILS
- G-2 GROUNDING PLAN AND RISER DIAGRAM

DRAWING SCALE

THESE DRAWINGS ARE SCALED TO FULL SIZE AT 22"x34" AND HALF SIZE AT 11"x17". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE DESIGNER / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICE TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION.

SCOPE OF WORK

- THIS PROJECT CONSISTS OF :
- CONSTRUCTION OF A NEW UNMANNED TELECOMMUNICATIONS FACILITY
 - SITE WORK: NEW TOWER, UNMANNED EQUIPMENT CABINET ON PLATFORM, AND UTILITY INSTALLATIONS



Know what's below.
Call before you dig.

TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN, CALL LOCAL STATE ONE CALL
TOLL FREE: 1-800-242-8511 OR
www.diggershotline.com

WISCONSIN STATUTE
REQUIRES MIN OF 2
WORKING DAYS NOTICE
BEFORE YOU EXCAVATE

TILLMAN
INFRASTRUCTURE

LCC
TELECOM SERVICES

JOHN M. BANKS
ARCHITECT
604 FOX GLEN
BARRINGTON, IL 60010
TELEPHONE: 847-277-0070
FAX : 847-277-0080
EMAIL: JBANKS@WESTCHESTERSERVICES.COM

WESTCHESTER
SERVICES LLC

604 FOX GLEN
BARRINGTON, IL 60010
PHONE: 847-277-0070
EMAIL: AE@Westchesterservices.com

DRAWN BY: DWM

CHECKED BY: MC

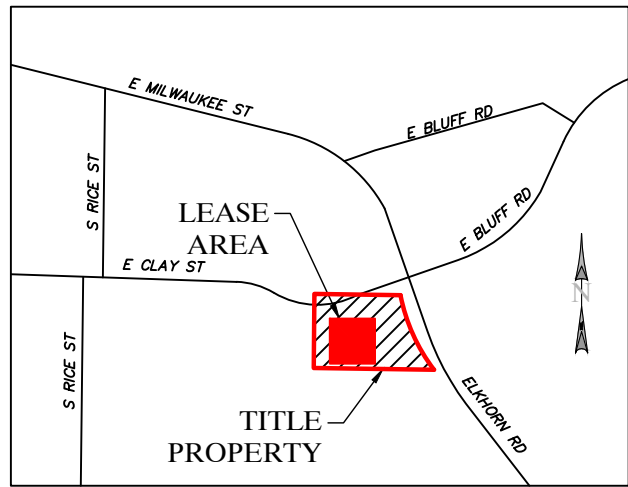
REV	DATE	DESCRIPTION
A	08/29/23	PRELIMINARY CD

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF WISCONSIN

TILLMAN OPP# TI-OPP-23028
FA# : 15887152
SITE NAME: STRITZEL RENTAL
SITE ADDRESS: 312 ELKHORN ROAD
WHITEWATER, WI 53190

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1



VICINITY MAP
NOT TO SCALE

* FAA COORDINATE POINT

NAD 83
LATITUDE: 42°49'50.10234" (42.83056204)
LONGITUDE: -88°42'39.2480" (-88.71090223)
NAVD88
ELEVATIONS: 829.94'± AMSL

TEMPORARY BENCHMARK

LATITUDE: 42°49'50.7028" (42.83075077)
LONGITUDE: -88°42'39.6899" (-88.71102498)
ELEVATION: 832.784'
LOCATION: CUT 'X' IN SIDEWALK

GLOBAL POSITIONING SYSTEMS NOTE

1. RANDOM TRAVERSE CONTROL MONUMENTS WERE SET USING GPS METHODS. A PORTION OF THE TOPOGRAPHY AND FOUND BOUNDARY MONUMENTS WERE ALSO LOCATED USING GPS METHODS.
2. THE TYPE OF GPS UTILIZES AS NETWORK ADJUSTED REAL TIME KINEMATIC (TOPCON VRS NETWORK), NAD 83 WISCONSIN STATE PLANE (SOUTH).
3. TOPCON HIPER SR RECEIVERS WERE USED TO PERFORM THE SURVEY.

GENERAL NOTES

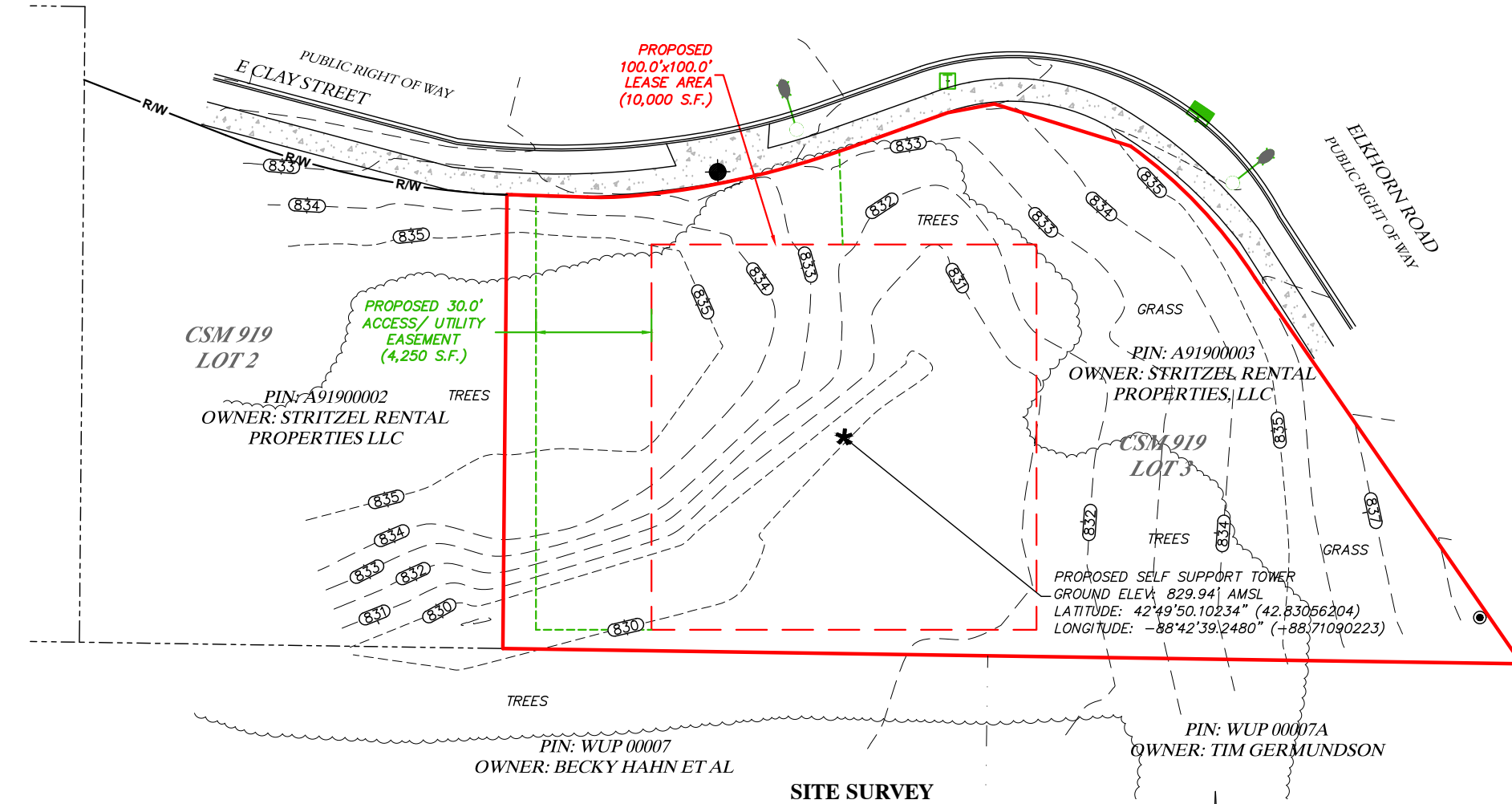
NO SEARCH OF PUBLIC RECORDS HAS BEEN COMPLETED BY XCEL CONSULTANTS TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE PARENT PARCEL.

THIS SURVEY IS FOR THE PROPOSED LEASE AREA AND THE PROPOSED EASEMENTS ONLY, AND ONLY A PARTIAL BOUNDARY SURVEY OF THE PARENT PARCEL HAS BEEN PERFORMED.

THIS PLAT IS NOT INTENDED FOR LAND TRANSFER.

THIS PROPERTY IS SUBJECT TO ANY RECORDED EASEMENTS AND/OR RIGHTS OF WAY SHOWN HEREON OR NOT.

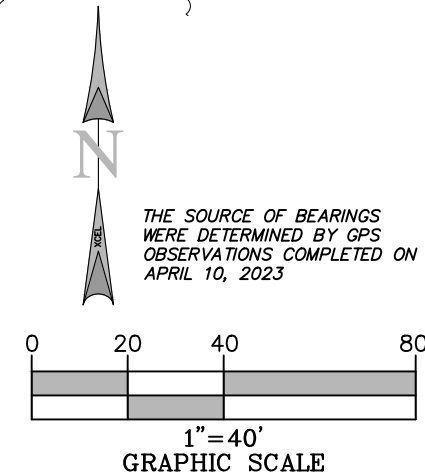
THIS SURVEY WAS COMPLETED WITH THE AID OF TITLE WORK PREPARED BY WESTCOR LAND TITLE INSURANCE COMPANY, COMMITMENT DATE OF MARCH 10, 2023, BEING COMMITMENT NO. TIL-149417-C, FOR THE SUBJECT PROPERTY, TO DETERMINE THE IMPACTS OF EXISTING TITLE EXCEPTIONS.



SITE SURVEY

LEGEND

	PROPERTY LINE
	ADJACENT PROPERTY LINE
	LEASE LINE
	ACCESS/UTILITY EASEMENT
	RIGHT OF WAY LINE
	CONTOURS
	BENCHMARK
	FOUND MONUMENT
	STREET LIGHT
	TELEPHONE PEDESTAL
	STORM DRAIN INLET
	POINT OF BEGINNING
	POINT OF COMMENCEMENT
	CENTERLINE OF TOWER LOCATION
	MEASURED & RECORD
	SQUARE FEET



I, DAN J. KUEHL, A WISCONSIN PROFESSIONAL LAND SURVEYOR, CERTIFY THAT THE INFORMATION SHOWN HEREON WAS COMPILED USING DATA FROM AN ACTUAL FIELD SURVEY MADE UNDER MY DIRECT SUPERVISION AND THAT THE FIELD SURVEY AND THE COMPILATION OF INFORMATION SHOWN HEREIN WERE CONDUCTED IN ACCORDANCE WITH THE WISCONSIN MINIMUM STANDARDS OF PRACTICE.

Dan J. Kuehl
JUNE 12, 2023

DAN J. KUEHL
LICENSE NUMBER 3104-8
MY LICENSE RENEWAL DATE IS JANUARY 31, 2024
SHEETS COVERED BY THIS SEAL B-1, B-1.1, AND B-1.2

PREPARED FOR:
WESTCHESTER SERVICES LLC
604 FOX GLEN
BARRINGTON, IL 60010
TELEPHONE: 847.277.0070
FAX : 847.277.0080
ae@westchesterservices.com

PREPARED FOR:
TILLMAN INFRASTRUCTURE

SURVEYED BY:
XCEL Consultants
8300 42ND STREET WEST
ROCK ISLAND, IL 61201
(O) 309-787-9988
(F) 309-756-5540
(E) XCEL@XCELCONSULTANTSINC.COM

XCEL PROJECT NUMBER: 234614

SITE SURVEY		
REV.	DATE	DESCRIPTION
A	6/12/23	FINAL ISSUE WITH TITLE

SITE INFORMATION:
STRITZEL RENTAL

312 ELKHORN ROAD
WHITEWATER, WI 53190
WALWORTH COUNTY

TAX PARCEL NUMBER:
A91900003

PROPERTY OWNER:
STRITZEL RENTAL PROPERTIES LLC
530 S JANESVILLE AVE
WHITEWATER, WI 53190

SITE NUMBER:
TI-OPP-23028

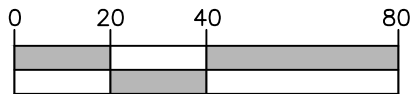
DRAWN BY: KJM
CHECKED BY: BCH
SURVEY DATE: 4/10/2023
PLAT DATE: 6/12/2023

SHEET TITLE:
SITE SURVEY
THIS DOES NOT REPRESENT A
BOUNDARY SURVEY OF THE
PARENT PARCEL

SHEET NUMBER:
B-1



THE SOURCE OF BEARINGS
WERE DETERMINED BY GPS
OBSERVATIONS COMPLETED ON
APRIL 10, 2023

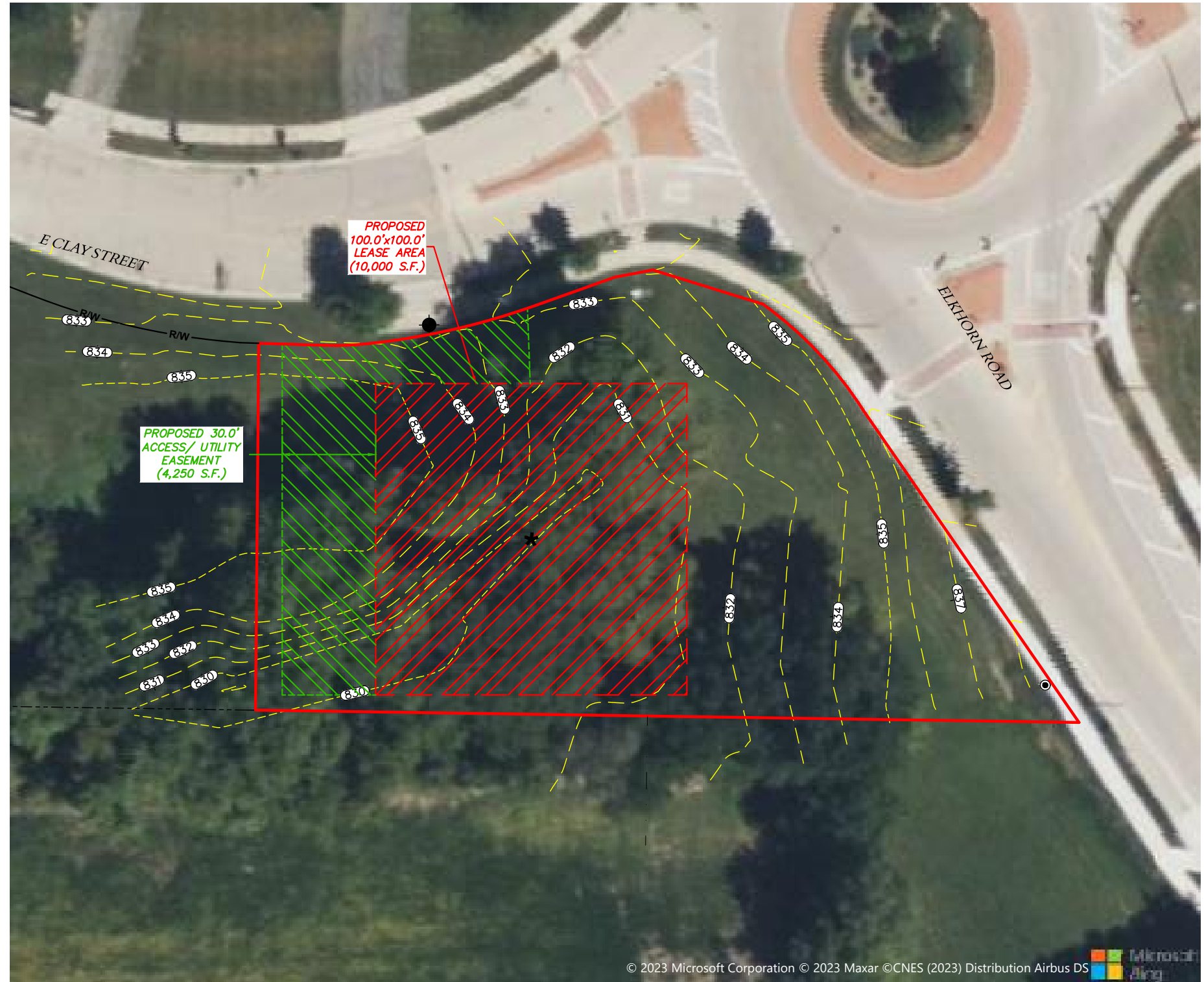


1"=40'
GRAPHIC SCALE

AERIAL PER MICROSOFT BING
MAPS ON APRIL 12, 2013

LEGEND

- PROPERTY LINE
- LEASE AREA
- ACCESS/UTILITY EASEMENT
- CONTOURS
- CENTERLINE OF TOWER LOCATION



AERIAL SURVEY



I, DAN J. KUEHL, A WISCONSIN PROFESSIONAL LAND SURVEYOR, CERTIFY
THAT THE INFORMATION SHOWN HEREON WAS COMPILED USING DATA FROM
AN ACTUAL FIELD SURVEY MADE UNDER MY DIRECT SUPERVISION AND THAT
THE FIELD SURVEY AND THE COMPILATION OF INFORMATION SHOWN HEREIN
WERE CONDUCTED IN ACCORDANCE WITH THE WISCONSIN MINIMUM STANDARDS
OF PRACTICE.

Dan Kuehl

JUNE 12, 2023

DAN J. KUEHL
LICENSE NUMBER 3104-8
MY LICENSE RENEWAL DATE IS JANUARY 31, 2024
SHEETS COVERED BY THIS SEAL B-1, B-1.1, AND B-1.2

PREPARED FOR:

WESTCHESTER
SERVICES LLC
604 FOX GLEN
BARRINGTON, IL 60010
TELEPHONE: 847.277.0070
FAX : 847.277.0080
ae@westchesterservices.com

PREPARED FOR:

TILLMAN
INFRASTRUCTURE

SURVEYED BY:

XCEL
Consultants
8300 42ND STREET WEST
ROCK ISLAND, IL 61201
(O) 309-787-9988
(F) 309-756-5540
(E) XCEL@XCELCONSULTANTSINC.COM

XCEL PROJECT NUMBER: 234614

SITE SURVEY

REV.	DATE	DESCRIPTION
A	6/12/23	FINAL ISSUE WITH TITLE

SITE INFORMATION:

STRITZEL RENTAL

312 ELKHORN ROAD
WHITEWATER, WI 53190
WALWORTH COUNTY

TAX PARCEL NUMBER:
A91900003

PROPERTY OWNER:
STRITZEL RENTAL PROPERTIES LLC
530 S JANESVILLE AVE
WHITEWATER, WI 53190

SITE NUMBER:

TI-OPP-23028

DRAWN BY: KJM
CHECKED BY: BCH
SURVEY DATE: 4/10/2023
PLAT DATE: 6/12/2023

SHEET TITLE:

SITE SURVEY

THIS DOES NOT REPRESENT A
BOUNDARY SURVEY OF THE
PARENT PARCEL

SHEET NUMBER:

B-1.1

REPORT OF TITLE:

THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY XCEL CONSULTANTS, INC. AND AS SUCH WE ARE NOT RESPONSIBLE FOR THE INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENT OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, UNRECORDED EASEMENT, AUGMENTING EASEMENT, IMPLIES OR PRESCRIPTIVE EASEMENTS, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.

THIS SURVEY WAS COMPLETED WITH THE AID OF TITLE WORK PREPARED BY WESTCOR LAND TITLE INSURANCE COMPANY, COMMITMENT DATE OF MARCH 10, 2023, BEING COMMITMENT NO. TIL-149417-C, FOR THE SUBJECT PROPERTY, TO DETERMINE THE IMPACTS OF EXISTING TITLE EXCEPTIONS.

SURVEY MATTERS OR EASEMENTS LISTED IN SCHEDULE 'B':

11. ANY AND ALL MATTERS DISCLOSED ON THE MAP ENTITLED "SURVEY MAP" DATED FEBRUARY 28, 1979 AND RECORDED APRIL 9, 1979 IN (BOOK) 4 (PAGE) 152, (INSTRUMENT) 46392 IN WALWORTH COUNTY, WISCONSIN. REFERS TO PARENT TRACT - NOTHING TO PLOI
12. ANY AND ALL MATTERS DISCLOSED ON THE MAP ENTITLED "PLAT" DATED JANUARY 6, 2016 AND RECORDED JANUARY 7, 2016 IN (BOOK) D (PAGE) 191, (INSTRUMENT) 918305 IN WALWORTH COUNTY, WISCONSIN. REFERS TO PARENT TRACT - NOTHING TO PLOI

PARENT PARCEL, LEGAL DESCRIPTION
(NOT FIELD SURVEYED) PER TITLE

THE FOLLOWING DESCRIBED REAL ESTATE, TOGETHER WITH THE RENTS, PROFITS, FIXTURES AND OTHER APPURTENANT INTERESTS, IN WALWORTH COUNTY, STATE OF WISCONSIN:

LOT 3, CERTIFIED SURVEY NO. 919, RECORDED IN VOL. 4 CS, PAGE 152, WALWORTH COUNTY REGISTER OF DEEDS, BEING PART OF THE SE ¼ SW ¼ OF SECTION 3, T4N, R15E, CITY OF WHITEWATER, WISCONSIN. EXCEPT PARCEL CONVEYED FOR STREET PURPOSES AS CONTAINED IN DEED RECORDED AS DOCUMENT NO. 710998. FURTHER EXCEPTING A PARCEL CONVEYED TO THE STATE OF WISCONSIN FOR HIGHWAY PURPOSES AS CONTAINED IN PARCEL 22 IN TPP 3110-02-21-4.03.

PARCEL ID: /A 91900003

THIS BEING THE SAME PROPERTY CONVEYED TO STRITZEL RENTAL PROPERTIES, LLC, AN UNDIVIDED 1/4 INTEREST IN A DEED FROM TERRENCE L. STRITZEL, DATED 12/30/2016 AND RECORDED 1/3/2017 AS INSTRUMENT NO. 939063.

FURTHER BEING DESCRIBED IN:
THIS BEING THE SAME PROPERTY CONVEYED TO STRITZEL RENTAL PROPERTIES, LLC, AN UNDIVIDED 1/4 INTEREST IN A DEED FROM DANIEL J. STRITZEL, DATED 12/30/2016 AND RECORDED 1/3/2017 AS INSTRUMENT NO.939062.

FURTHER BEING DESCRIBED IN:
THIS BEING THE SAME PROPERTY CONVEYED TO STRITZEL RENTAL PROPERTIES, LLC, AN UNDIVIDED 1/4 INTEREST IN A DEED FROM STEVEN J. STRITZEL, DATED 12/30/2016 AND RECORDED 1/3/2017 AS INSTRUMENT NO.939061.

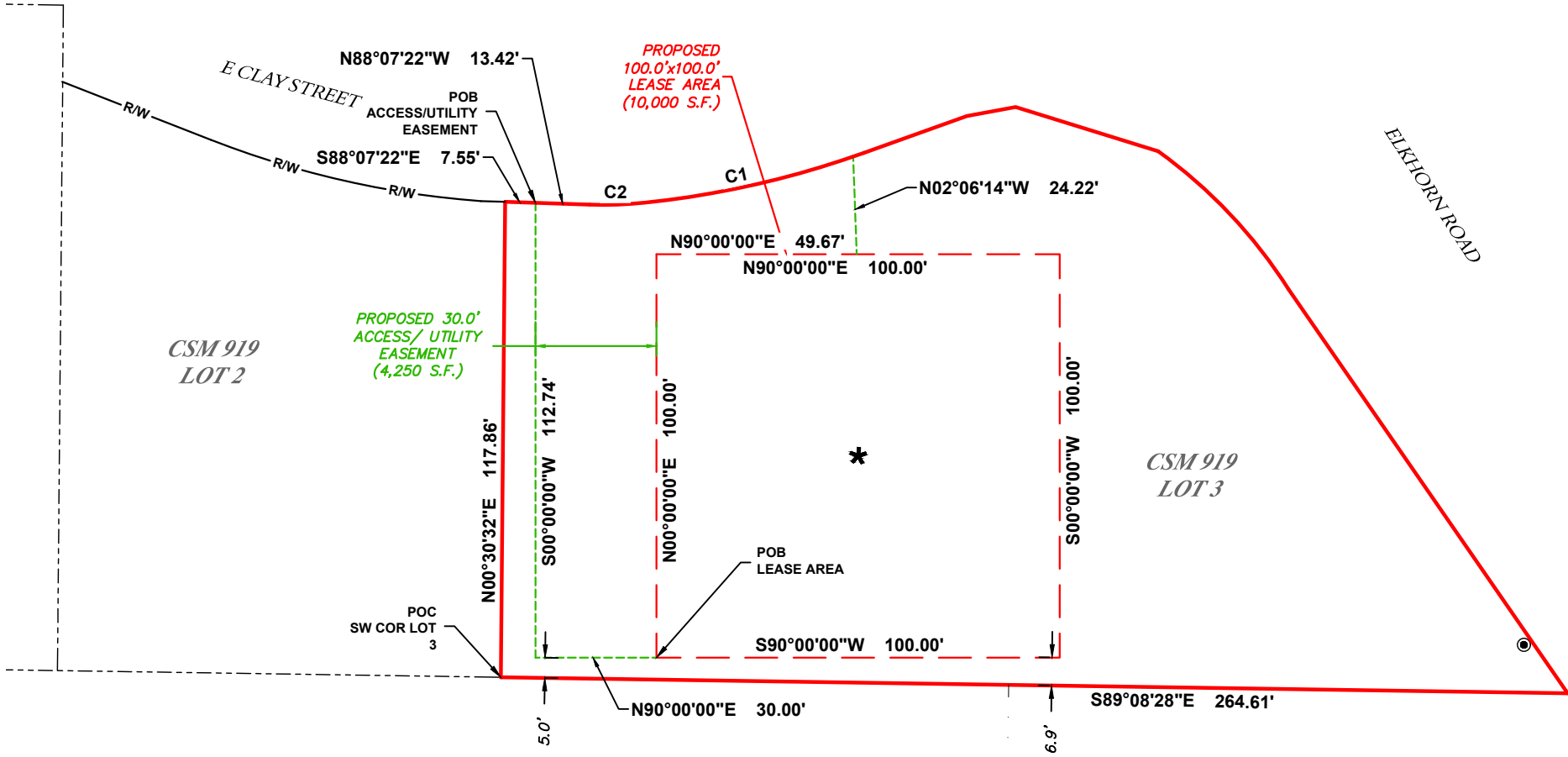
FURTHER BEING DESCRIBED IN:
THIS BEING THE SAME PROPERTY CONVEYED TO STRITZEL RENTAL PROPERTIES, LLC, AN UNDIVIDED 1/4 INTEREST IN A DEED FROM JANICE R STRITZEL, DATED 12/30/2016 AND RECORDED 1/3/2017 AS INSTRUMENT NO.939060.

PROPOSED LEASE AREA:

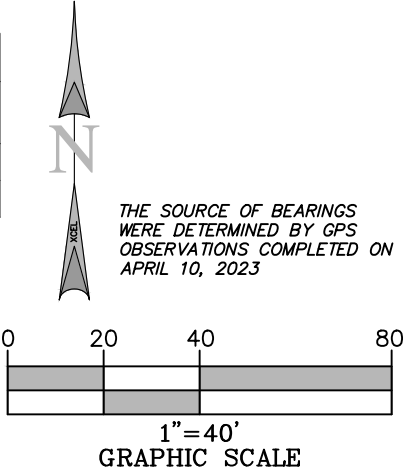
A PART OF LOT 3, CERTIFIED SURVEY NO. 919, RECORDED IN VOL. 4 CS, PAGE 152, WALWORTH COUNTY REGISTER OF DEEDS, CITY OF WHITEWATER, WALWORTH COUNTY, WISCONSIN, MORE PARTICULARLY DESCRIBED AS: COMMENCING AT THE SW CORNER OF SAID LOT 3; THENCE N00°30'32"E, ALONG THE WEST LINE OF SAID LOT 3, 117.86 FEET TO THE SOUTH LINE OF E. CLAY STREET; THENCE S88°07'22"E, ALONG THE SAID SOUTH LINE OF E. CLAY STREET, 7.55 FEET; THENCE S00°00'00"W, 112.74 FEET; THENCE N90°00'00"E, 30.00 FEET TO THE POINT OF BEGINNING FOR THE LEASE AREA HEREIN INTENDED TO BE DESCRIBED; THENCE N00°00'00"E, 100.00 FEET; THENCE N90°00'00"E, 100.00 FEET; THENCE S00°00'00"W, 100.00 FEET; THENCE S90°00'00"W, 100.00 FEET TO THE POINT OF BEGINNING, CONTAINING 10,000 SQUARE FEET.

PROPOSED ACCESS/UTILITY EASEMENT:

A PART OF LOT 3, CERTIFIED SURVEY NO. 919, RECORDED IN VOL. 4 CS, PAGE 152, WALWORTH COUNTY REGISTER OF DEEDS, CITY OF WHITEWATER, WALWORTH COUNTY, WISCONSIN, MORE PARTICULARLY DESCRIBED AS: COMMENCING AT THE SW CORNER OF SAID LOT 3; THENCE N00°30'32"E, ALONG THE WEST LINE OF SAID LOT 3, 117.86 FEET TO THE SOUTH LINE OF E. CLAY STREET; THENCE S88°07'22"E, ALONG THE SAID SOUTH LINE OF E. CLAY STREET, 7.55 FEET TO THE POINT OF BEGINNING FOR THE EASEMENT AREA HEREIN INTENDED TO BE DESCRIBED; THENCE S00°00'00"W, 112.74 FEET; THENCE N90°00'00"E, 30.00 FEET; THENCE N00°00'00"E, 100.00 FEET; THENCE N90°00'00"E, 49.67 FEET; THENCE N02°06'14"W, 24.22 FEET TO THE SAID SOUTH LINE OF E. CLAY STREET; THENCE S00°00'00"W, 100.00 FEET; THENCE S90°00'00"W, 100.00 FEET TO THE POINT OF BEGINNING, CONTAINING 4,250 SQUARE FEET.



CURVE TABLE					
CURVE	RADIUS	LENGTH	DELTA	CHORD BEARING	CHORD LENGTH
C1	231.50'	52.95'	013°06'15"	S77°31'49"W	52.83'
C2	103.00'	13.80'	007°40'36"	S87°55'13"W	13.79'



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Dan J. Kuehl
JUNE 12, 2023
DAN J. KUEHL
LICENSE NUMBER 3104-8
MY LICENSE RENEWAL DATE IS JANUARY 31, 2024
SHEETS COVERED BY THIS SEAL B-1, B-1.1, AND B-1.2

PREPARED FOR:

WESTCHESTER
SERVICES LLC
604 FOX GLEN
BARRINGTON, IL 60010
TELEPHONE: 847.277.0070
FAX : 847.277.0080
ae@westchesterservices.com

PREPARED FOR:

TILLMAN
INFRASTRUCTURE

SURVEYED BY:

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8300 42ND STREET WEST
ROCK ISLAND, IL 61201
(O) 309-787-9988
(F) 309-756-5540
(E) XCEL@XCELCONSULTANTSINC.COM

XCEL PROJECT NUMBER: 234614

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A	6/12/23	FINAL ISSUE WITH TITLE

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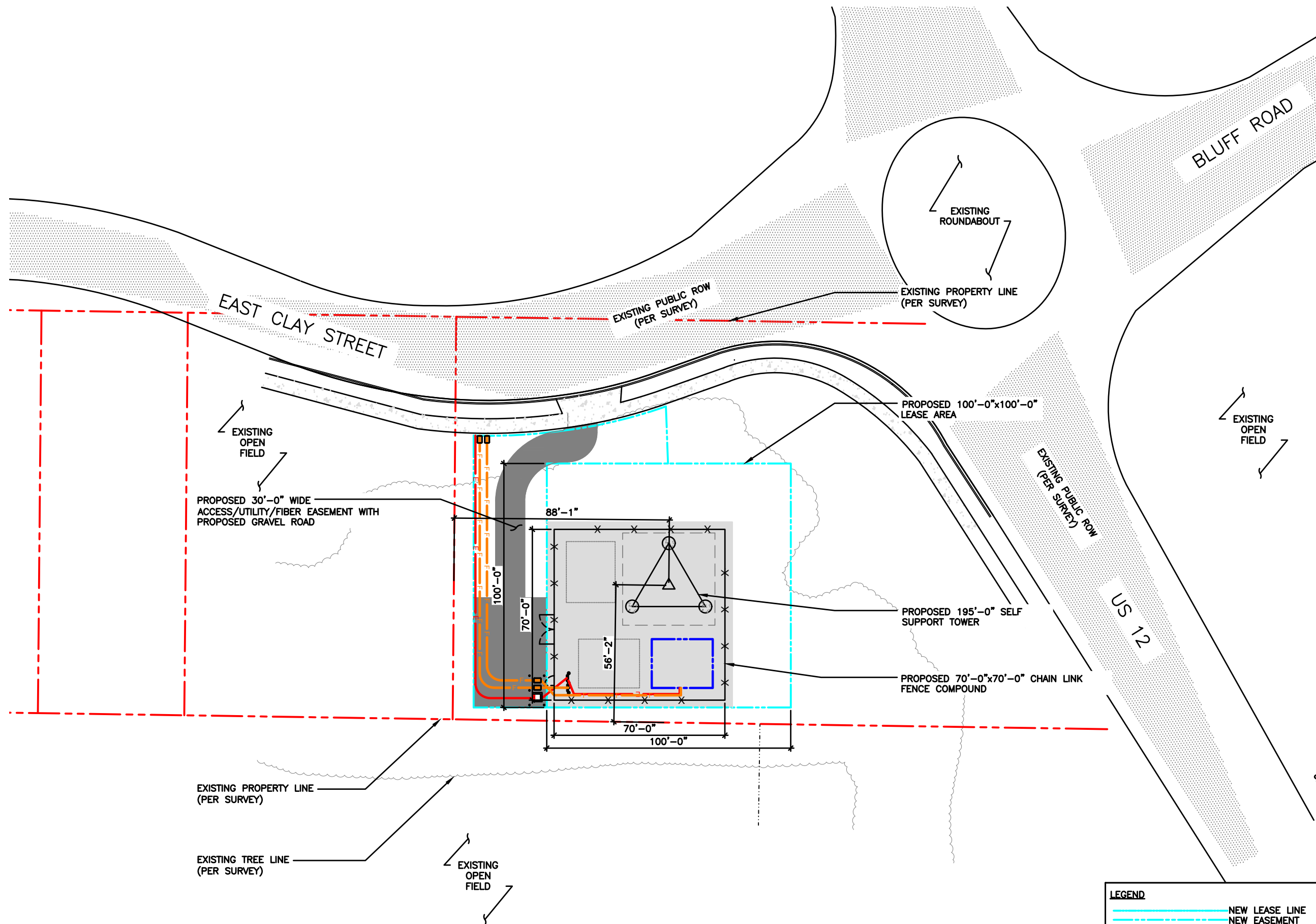
SHEET TITLE:

SITE SURVEY

THIS DOES NOT REPRESENT A
BOUNDARY SURVEY OF THE
PARENT PARCEL

SHEET NUMBER:
B-1.2

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OVERALL SITE PLAN

SCALE: 1" = 20'-0" (24x36)
(OR) 1/2" = 20'-0" (11x17)

1

TILLMAN
INFRASTRUCTURE

LCC
TELECOM SERVICES

JOHN M. BANKS
ARCHITECT

604 FOX GLEN
BARRINGTON, IL 60010
TELEPHONE: 847-277-0070
FAX : 847-277-0080
EMAIL: JBANKS@WESTCHESTERSERVICES.COM

WESTCHESTER
SERVICES LLC

604 FOX GLEN
BARRINGTON, IL 60010
PHONE: 847-277-0070
EMAIL: AE@Westchesterservices.com

DRAWN BY: DWM

CHECKED BY: MC

REV	DATE	DESCRIPTION
A	08/29/23	PRELIMINARY CD

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF WISCONSIN

TILLMAN OPP# TI-OPP-23028
FA# : 15887152
SITE NAME:
STRITZEL RENTAL
SITE ADDRESS:
312 ELKHORN ROAD
WHITEWATER, WI 53190

SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
C-1

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GENERAL NOTES

1. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS.
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITIES COMPANY OR OTHER PUBLIC AUTHORITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
4. THE CONTRACTOR SHALL NOTIFY THE TILLMAN CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK. MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.
6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
8. CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES AND NOTIFY UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION AT PRIOR TO EXCAVATION AT SITE.
9. ANY UNDERGROUND UTILITIES OR STRUCTURES THAT EXIST BENEATH THE PROJECT AREA, CONTRACTOR MUST LOCATE IT AND CONTACT THE APPLICANT & THE OWNER'S REPRESENTATIVE.
10. NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
11. THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
12. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
13. POWER TO THE FACILITY WILL BE MONITORED BY A SEPARATE METER.
14. THERE ARE NO COMMERCIAL SIGNS NEW FOR THIS INSTALLATION.
15. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
16. THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
MAXIMUM SOIL LIFTS:
JUMPING JACK - 3"
CROWS FOOT TRENCH ROLLER - 6"
HOE OPERATED VIBRATORY PLATE - 8"
WHEELED VIBRATORY SOIL COMPACTOR - 12"
*LIFT HEIGHTS MAY NEED TO BE ADJUSTED DEPENDING ON SOIL TYPES AND MOISTURE CONTENT.
17. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY UTILITY OWNER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES.
18. THE AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITY SHALL BE GRADED AND RESTORED PER CODE/LANDLORD REQUIREMENTS (REFER TO GRADING PLAN).
19. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL, AND COORDINATED WITH THE MUNICIPALITY.
20. UTILITY WARNING TAPE SHALL BE PLACED ABOVE ALL NEW CONDUITS AT MAX 18" DEPTH BELOW GRADE.

NEW UNDERGROUND FIBER CONDUIT FROM NEW UTILITY H-FRAME TO ROW SEE E-1 FOR DETAILS

NEW UNDERGROUND ELECTRICAL SERVICE FROM NEW UTILITY H-FRAME TO ROW SEE E-1 FOR DETAILS

NEW 30'-0" WIDE ACCESS/ FIBER/ UTILITY EASEMENT WITH GRAVEL ACCESS ROAD

NEW 70'-0"x70'-0" CHAIN LINK FENCE COMPOUND. 6' TALL WITH 1' BARBED WIRE, TOTAL 7' TALL

NEW 12'-0" DOUBLE SWING ACCESS GATE

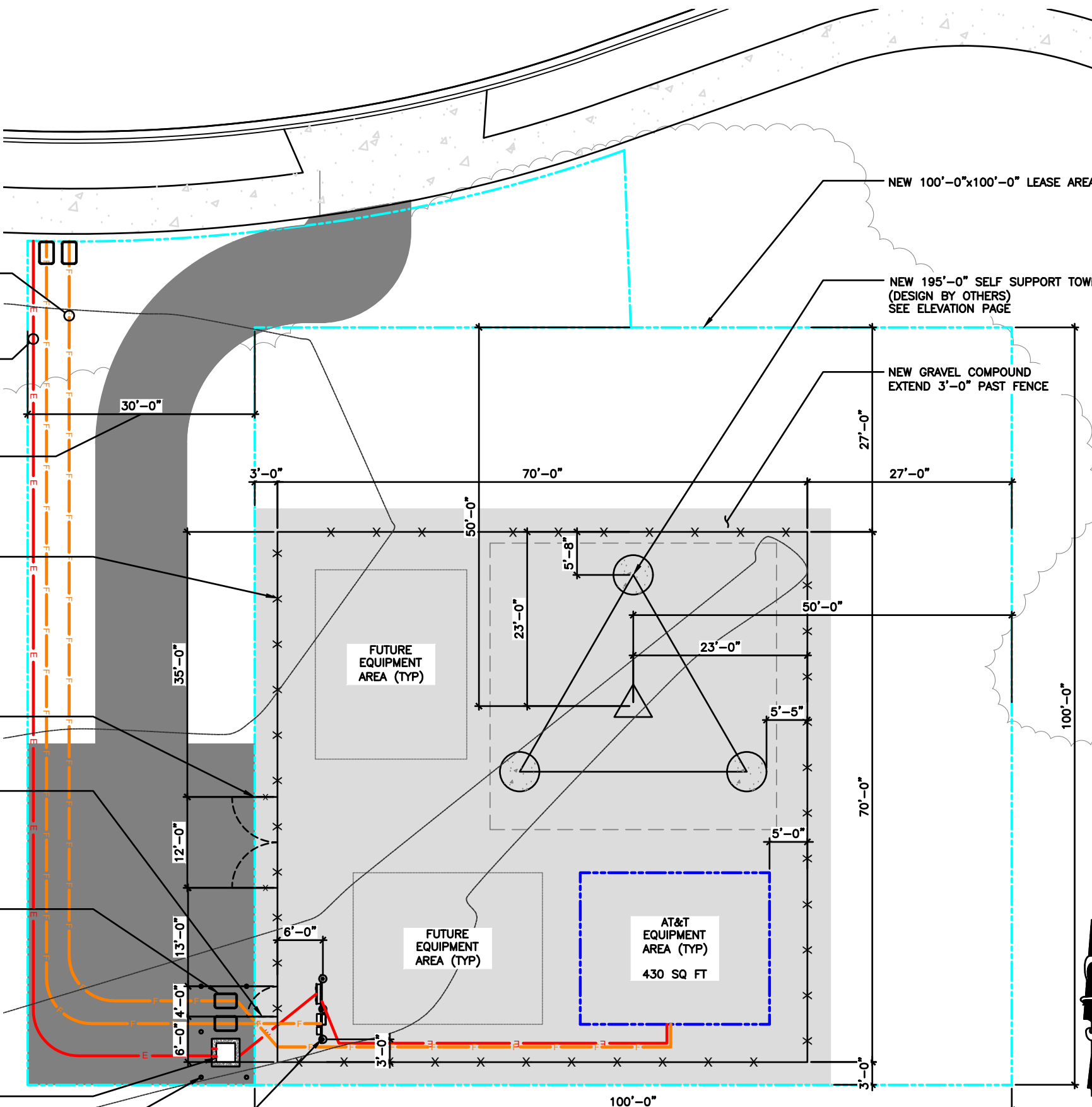
NEW 4'-0" SINGLE SWING ACCESS GATE IN FRONT OF UTILITY H-FRAME

NEW LABELED FIBER HANDHOLE (BY TILLMAN CONTRACTOR)

NEW UTILITY TRANSFORMER BY POWER COMPANY

NEW FENCE POST MARKER (3'-0" O.C. & 6'-0" A.G.L.)

NEW MULTI-TENANT 4 GANG METER BANK ON NEW COMPOUND UTILITY H-FRAME



NOTE:
CONTRACTOR TO CLEAR AND GRUB EXISTING VEGETATION AND REMOVE TREES AS NEEDED WITHIN NEW LEASE AREA AND 10' AROUND ENTIRE LEASE AREA, ENSURE ALL OVERHANGING LIMBS OF BRANCHES ARE REMOVED AS WELL.

LEGEND	
	NEW LEASE LINE
	NEW EASEMENT
	NEW FENCE
	EXISTING FENCE
	EXISTING PAVEMENT
	EXISTING PROPERTY LINE

0 2' 4' 8' SCALE: 1/8" = 1'-0" (24x36)
(OR) 1/16" = 1'-0" (11x17)



TILLMAN
INFRASTRUCTURE

LCC
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DRAWN BY: DWM

CHECKED BY: MC

REV	DATE	DESCRIPTION
A	08/29/23	PRELIMINARY CD

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TILLMAN OPP# TI-OPP-23028
FA# : 15887152
SITE NAME:
STRITZEL RENTAL
SITE ADDRESS:
312 ELKHORN ROAD
WHITEWATER, WI 53190

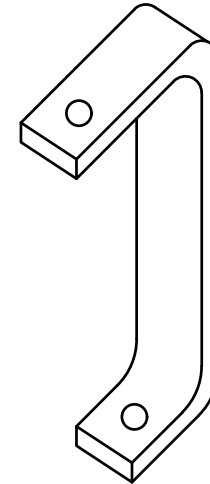
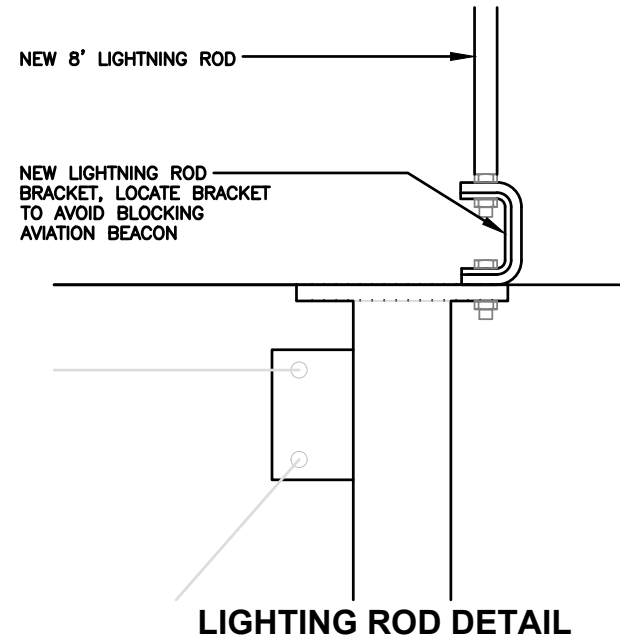
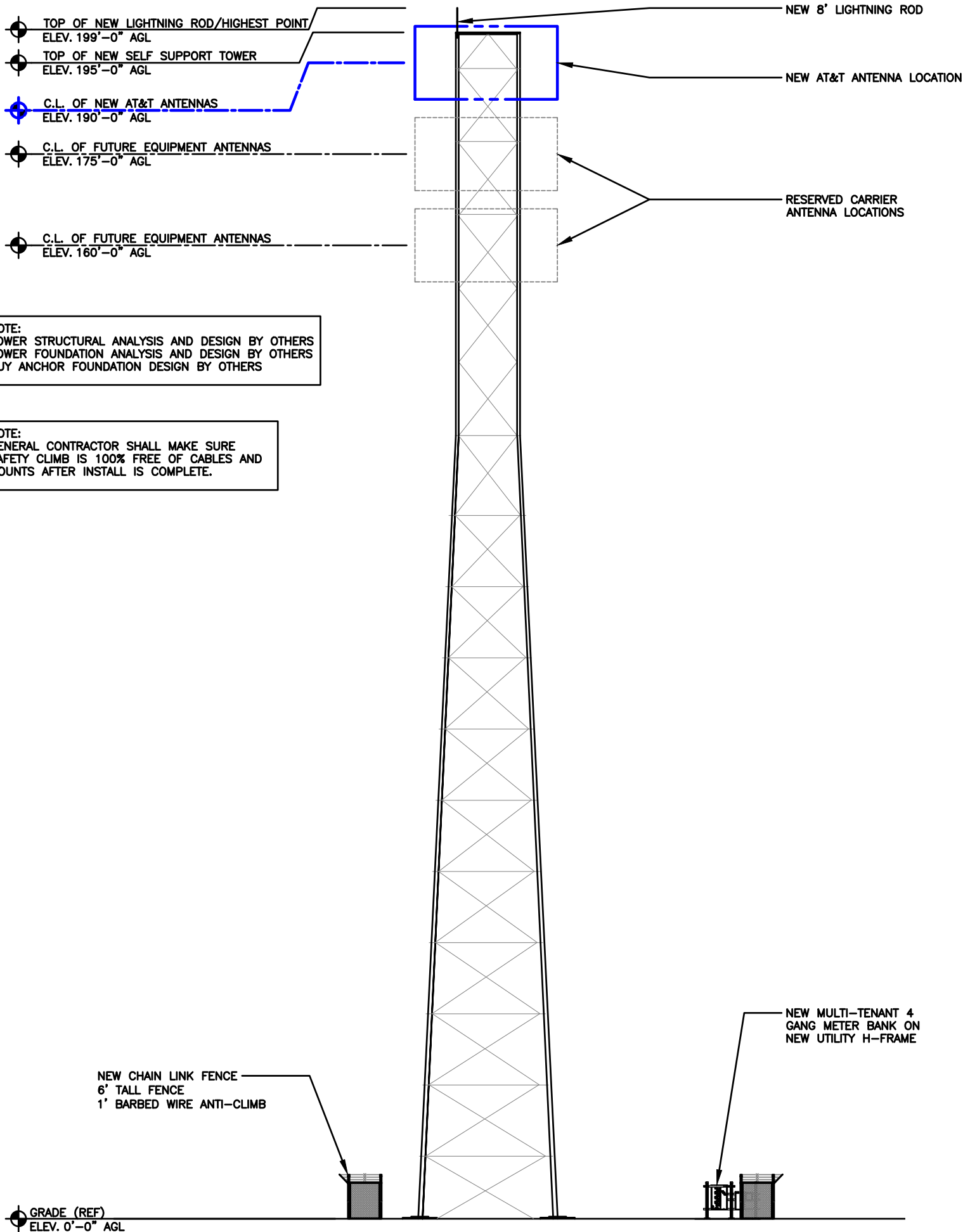
SHEET TITLE
ENLARGED
SITE PLAN

SHEET NUMBER
C-2

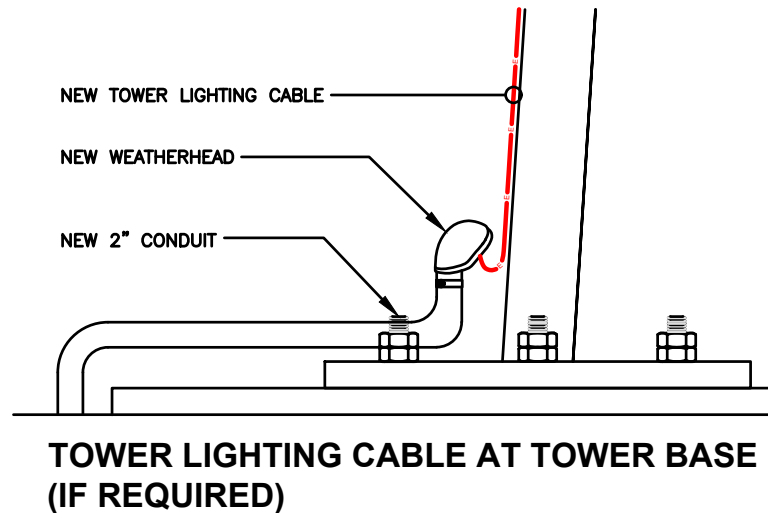
ENLARGED SITE PLAN

1

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LIGHTNING ROD BRACKET



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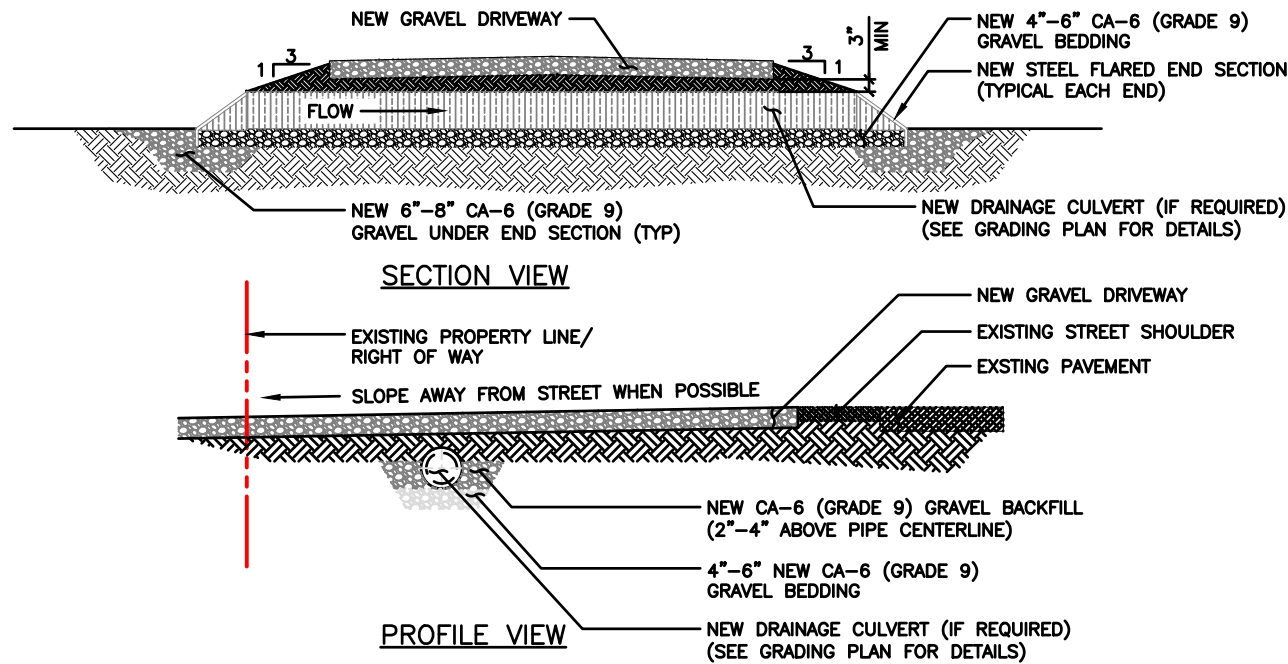
SHEET TITLE
ELEVATION

SHEET NUMBER
C-3

ELEVATION

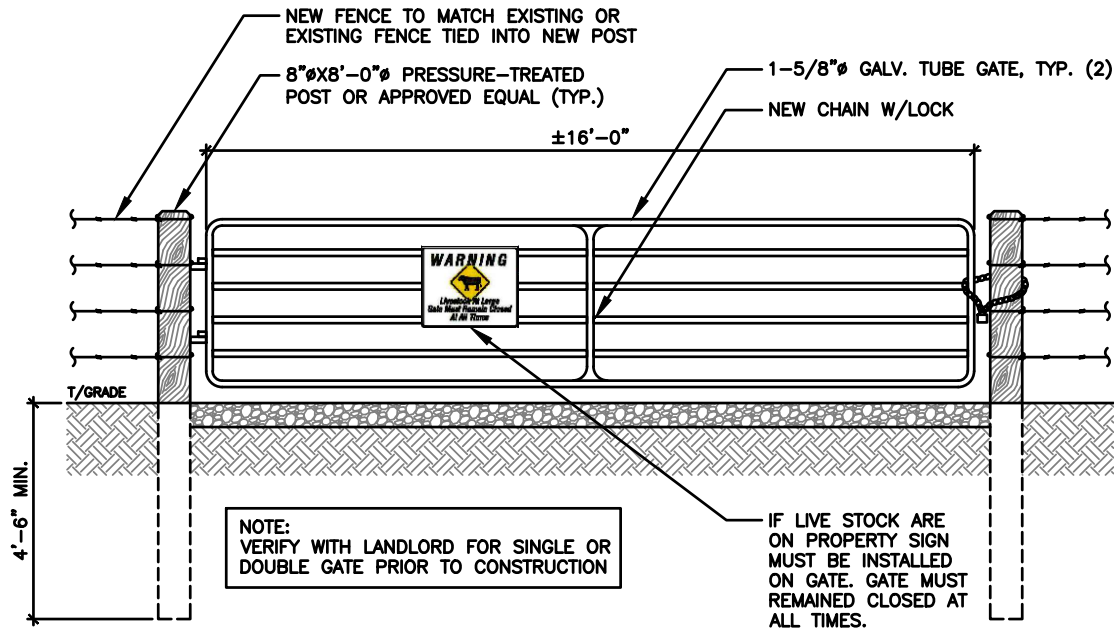
SCALE
N.T.S. **1**

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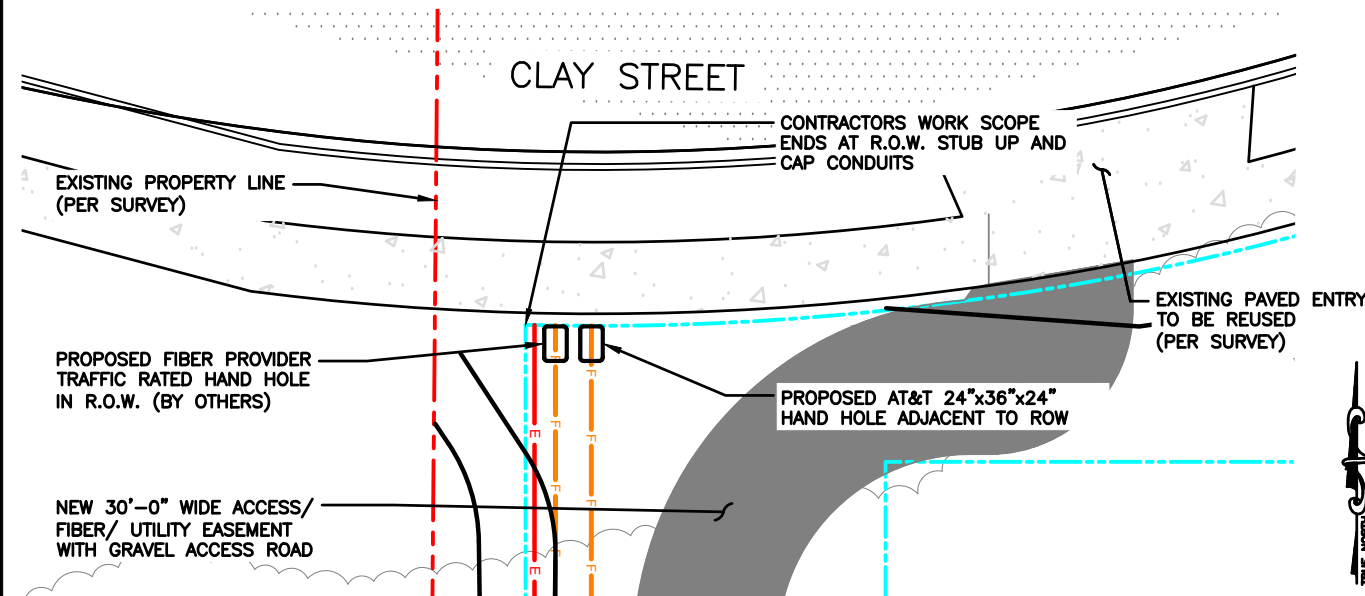
CULVERT DETAIL (IF REQUIRED)

SCALE
N.T.S. 6



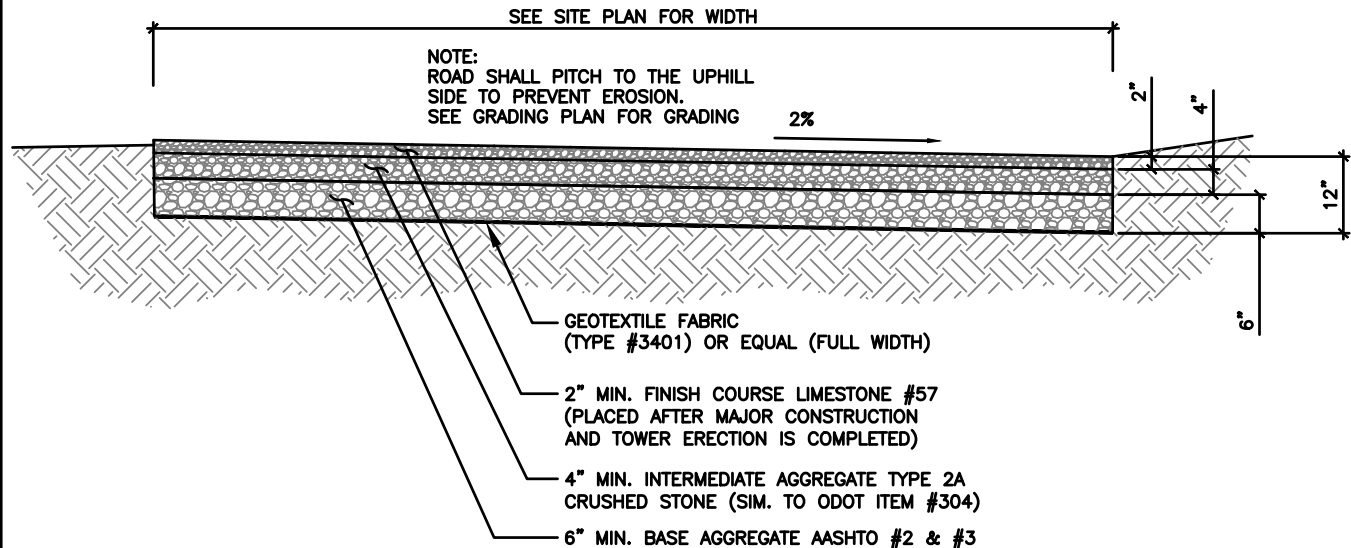
CATTLE/ STREET GATE DETAIL (IF REQUIRED)

SCALE
N.T.S. 5



ACCESS DRIVEWAY @ STREET DETAIL

SCALE
N.T.S. 4



ACCESS DRIVE DETAIL

SCALE
N.T.S. 3

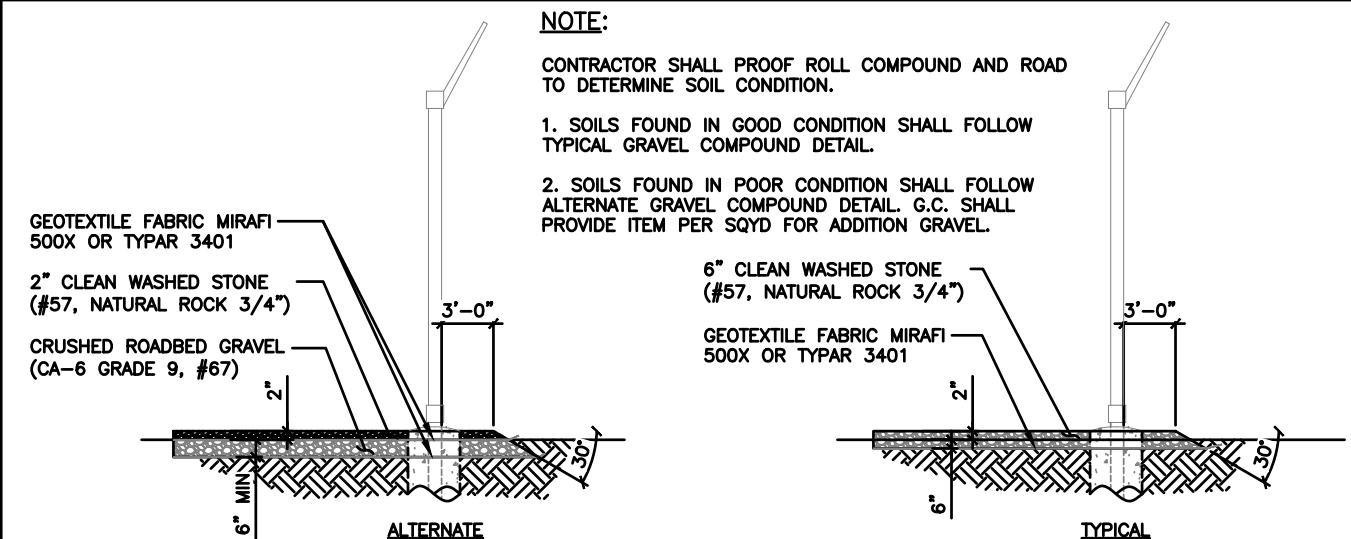
ASPHALT APRON- (IF REQUIRED)
8" OF 304 AGGREGATE STONE (2 LIFTS)
4" OF 404 BITUMINOUS ASPHALT (2 LIFTS)

CONCRETE APRON- (IF REQUIRED)
CLASS C CONCRETE IS REQUIRED FROM EDGE OF PAVEMENT TO R/W. THE SLAB MUST BE 5" THICK. ONE INCH EXPANSION MATERIAL REQUIRED AGAINST ANY EXISTING CONCRETE. NO MORE THAN 2% CALCIUM CHLORIDE ADDED TO MIX. NO MORE THAN 2 GALLONS OF WATER PER CUBIC YARD ADDED TO MIX AT THE BEGINNING OF LOAD. NO WATER SPRAY ON MIX AFTER MATERIAL IS PLACED IN FORMS. NO MORE THAN A 5" SLUMP IN THE CONCRETE MIX.

NOTE:
TILLMAN GC TO VERIFY WITH DRIVEWAY PERMIT/JURISDICTION

DRIVEWAY/ CULVERT NOTES

SCALE
N.T.S. 2



GRAVEL COMPOUND DETAIL

SCALE
N.T.S. 1

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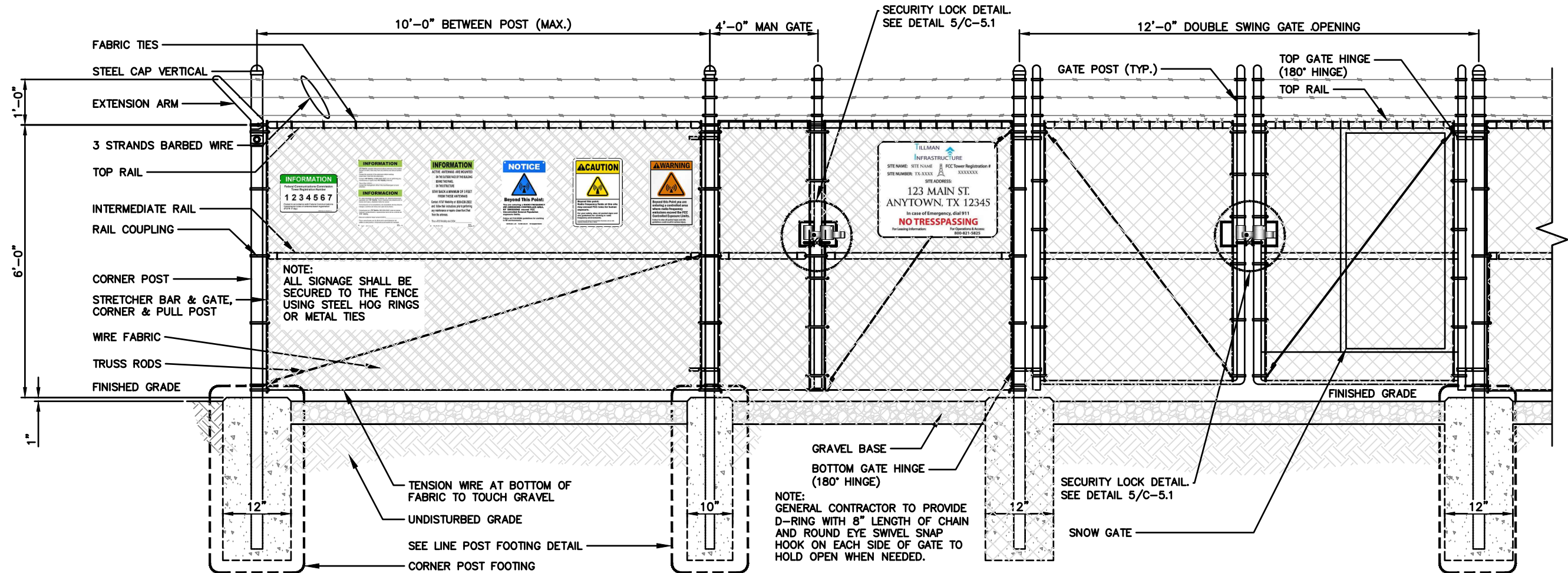
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SHEET TITLE
CONSTRUCTION
DETAILS

SHEET NUMBER
C-4

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COMPOUND FENCING DETAIL

SCALE
N.T.S. 2

NOT USED

SCALE
N.T.S. 1

TILLMAN
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SHEET TITLE
FENCE
DETAILS

SHEET NUMBER
C-5

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WOVEN WIRE FENCE NOTES:

(INSTALL FENCING PER ASTM F-567)
(SWING GATES PER ASTM F-900)

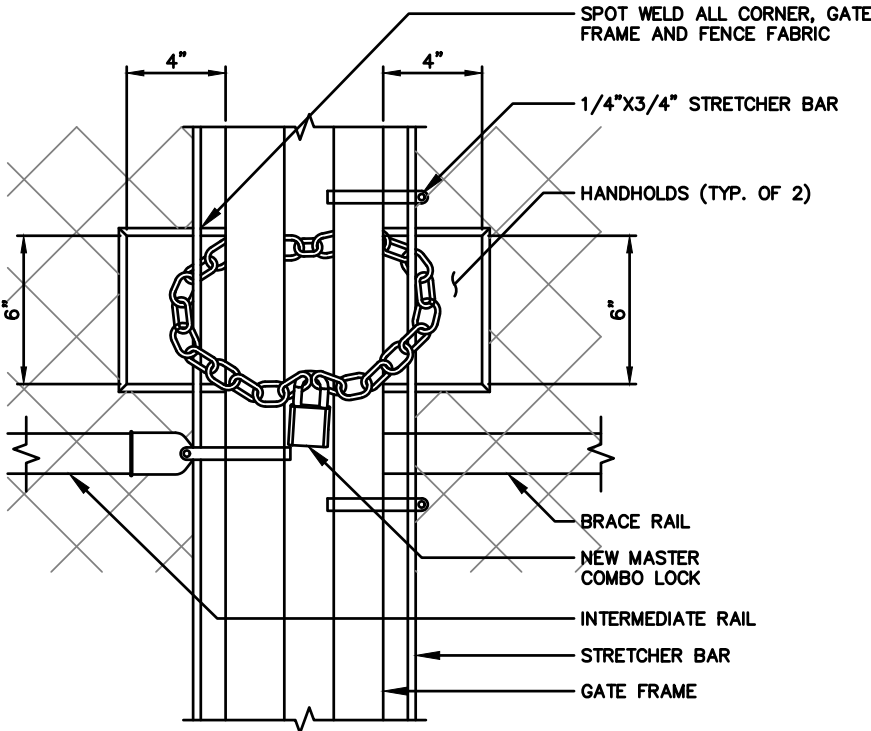
1. GATE POSTS, CORNER, TERMINAL OR PULL POSTS SHALL BE 2 7/8" DIA. SCHEDULE 40 FOR GATE WIDTHS UP THROUGH 6 FEET OR 12 FEET FOR DOUBLE SWING GATE PER ASTM-F1083.
2. LINE POSTS: 2 3/8" DIA. SCHEDULE 40 PIPE PER ASTM-F1083
3. GATE FRAME: 1 1/2" DIA. SCHEDULE 40 PIPE PER ASTM-F1083
4. TOP RAIL AND BRACE RAIL: 1 1/4" SCHEDULE 40 PIPE PER ASTM-F1083
5. FABRIC: 9 GA. CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A392 CLASS 1
6. TIE WIRE: MINIMUM 11 GA. GALVANIZED STEEL. INSTALL A SINGLE WRAP TIE WIRE AT POSTS AND RAILS AT MAX. 24" INTERVALS. INSTALL HOG RINGS ON TENSION WIRE AT 24" INTERVALS
7. TENSION WIRE: 7 GA. GALVANIZED STEEL
8. BARBED WIRE: 3 STRANDS OF DOUBLE STRAND 12-1/2 GAUGE TWISTED WIRE, 4 POINT BARBS SPACED ON APPROXIMATELY 5" CENTERS
9. LOCAL ORDINANCE FORR BARB WIRE PERMIT SHALL GOVERN INSTALLATION
10. HEIGHT = 6' VERTICAL + 1' BARBED WIRE VERTICAL DIMENSION
11. ALL WORK SHALL CONFORM WITH THE PROJECT SPECIFICATIONS

FENCING NOTES

SCALE
N.T.S.

3

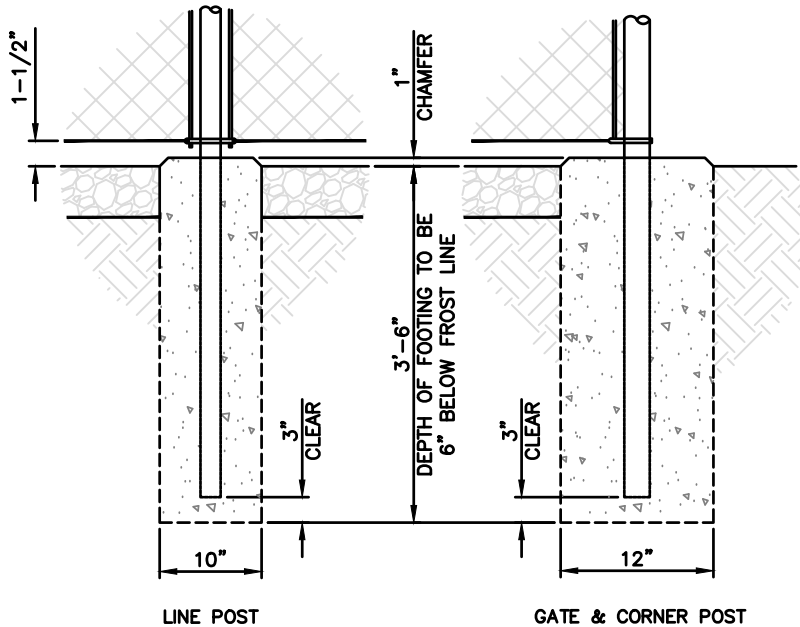
NOTE:
GENERAL CONTRACTOR TO PROVIDE
(2) NEW LOCKS FOR MAIN GATE
AND MAIN GATE. COORDINATE
COMBINATION WITH TILLMAN
CONSTRUCTION MANAGER.



STRONGHOLD LATCH DETAIL

SCALE
N.T.S.

5



POST FOOTING DETAIL

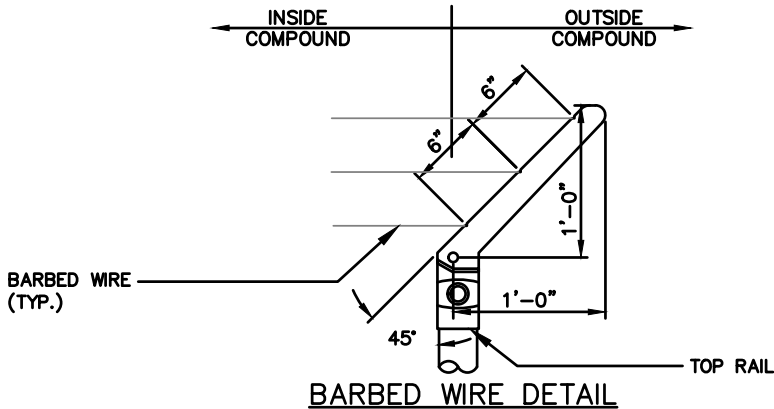
SCALE
N.T.S.

2

NOT USED

SCALE
N.T.S.

4



DETAILS

SCALE
N.T.S.

1

TILLMAN
INFRASTRUCTURE

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SHEET TITLE
FENCE
DETAILS

SHEET NUMBER
C-5.1

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TILLMAN
INFRASTRUCTURE

SITE NAME: SITE NAME
SITE NUMBER: TX-XXXX
SITE ADDRESS:
123 MAIN ST.
ANYTOWN, TX 12345
In case of Emergency, dial 911
NO TRESSPASSING
For Leasing Information:
For Operations & Access:
800-821-5825

FCC Tower Registration #
XXXXXXX

SIGNAGE NOTES:

1. SIGNS SHALL BE FABRICATED FROM CORROSION RESISTANT PRESSED METAL & PAINTED WITH LONG LASTING UV RESISTANT COATING.
2. SIGNS (EXCEPT WHERE NOTED OTHERWISE) SHALL BE MOUNTED TO THE TOWER, GATE & FENCE USING A MINIMUM OF 9 GAUGE ALUMINUM WIRE, HOG RINGS (FENCE) OR BRACKETS, WHERE NECESSARY. BRACKETS SHALL BE OF SIMILAR METAL AS THE STRUCTURE TO AVOID GALVANIC CORROSION.
3. ADDITIONAL E911 ADDRESS & FCC REGISTRATION SIGNS SHALL BE MOUNTED AT EACH ACCESS ROAD GATE LEADING TO THE COMPOUND AS WELL AS THE COMPOUND GATE ITSELF.
4. SIGNS NEED NOT BE PLACED IF ACCURATE AND APPROPRIATE SIGNAGE ALREADY EXISTS.

INFORMATION

Federal Communications Commission
Tower Registration Number
1 2 3 4 5 6 7
Posted in accordance with Federal Communications
Commission rules on antenna tower registration
47CFR 17.4(g).

WHITE/GREEN BACKGROUND, WHITE/BLACK LETTERING
MOUNTING LOCATION: GATE & BASE OF TOWER
QUANTITY: 2

INFORMATION

ACTIVE ANTENNAS ARE MOUNTED

- ☐ ON THE OUTSIDE FACE OF THIS BUILDING
- ☐ BEHIND THIS PANEL
- ☐ ON THIS STRUCTURE

STAY BACK A MINIMUM OF 3 FEET
FROM THESE ANTENNAS

Contact AT&T Mobility at 800-638-2822
and follow their instructions prior to performing
any maintenance or repairs closer than 3 feet
from the antennas.

This is AT&T Mobility site USID#

WHITE/GREEN BACKGROUND, WHITE/BLACK LETTERING
MOUNTING LOCATION: GATE & BASE OF TOWER
QUANTITY: 2

PROPERTY OF TILLMAN INFRASTRUCTURE

SCALE
N.T.S.

7

FCC REGISTRATION SIGN

SCALE
N.T.S.

6

RF EXPOSURE INFORMATION SIGN

SCALE
N.T.S.

5

INFORMATION

AT&T Mobility operates telecommunications antennas at this location. Remain at least 3 feet away from any antenna and obey all posted signs.
Contact the owner(s) of the antenna(s) before working closer than 3 feet from the antenna(s).
Contact AT&T Mobility at 800-638-2822 prior to performing any maintenance or repairs near AT&T Mobility antennas.
This is Site USID #
Contact the management office if this door/hatch/gate is found unlocked.

INFORMACION

En esta propiedad se ubican antenas de telecomunicaciones operadas por AT&T Mobility. Favor mantener una distancia de no menos de 3 pies y obedecer todos los avisos
Comuníquese con el propietario o los propietarios de las antes de trabajar o caminar de menos de 3 pies de la antena
Comuníquese con AT&T Mobility 800-638-2822 antes de realizar cualquier mantenimiento o reparaciones cerca de las antenas de AT&T Mobility.
Esta es la estación base numero USID #
Favor comunicarse con la oficina de la administración del edificio si esta puerta o compuerta se encuentra sin candado

WHITE/GREEN BACKGROUND, WHITE/BLACK LETTERING
MOUNTING LOCATION: GATE & BASE OF TOWER
QUANTITY: 2

NOTICE

Beyond This Point:

You are entering a RADIO FREQUENCY (RF) EMISSIONS CONTROLLED AREA. RF EMISSIONS exceed FCC Uncontrolled General Population exposure limits.
Follow all FCC/OSHA guidelines for working in RF environments.

WHITE/BLUE BACKGROUND, WHITE/BLACK LETTERING
MOUNTING LOCATION: GATE & BASE OF TOWER
QUANTITY: 1

CAUTION

Beyond this point:
Radio frequency fields at this site may exceed FCC rules for human exposure.
For your safety, obey all posted signs and site guidelines for working in radio frequency environments.

WHITE/YELLOW BACKGROUND, WHITE/BLACK LETTERING
MOUNTING LOCATION: GATE & BASE OF TOWER
QUANTITY: 1

WARNING

Beyond this Point you are entering a controlled area where radio frequency emissions exceed the FCC Controlled Exposure Limits.
Failure to obey all posted signs and site guidelines could result in serious injury.

WHITE/ORANGE BACKGROUND, WHITE/BLACK LETTERING
MOUNTING LOCATION: GATE & BASE OF TOWER
QUANTITY: 1

TILLMAN
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SHEET TITLE
SITE SIGNAGE

SHEET NUMBER
C-6

RF EXPOSURE INFORMATION SIGN

SCALE
N.T.S.

4

RF EXPOSURE NOTICE SIGN

SCALE
N.T.S.

3

RF EXPOSURE CAUTION SIGN

SCALE
N.T.S.

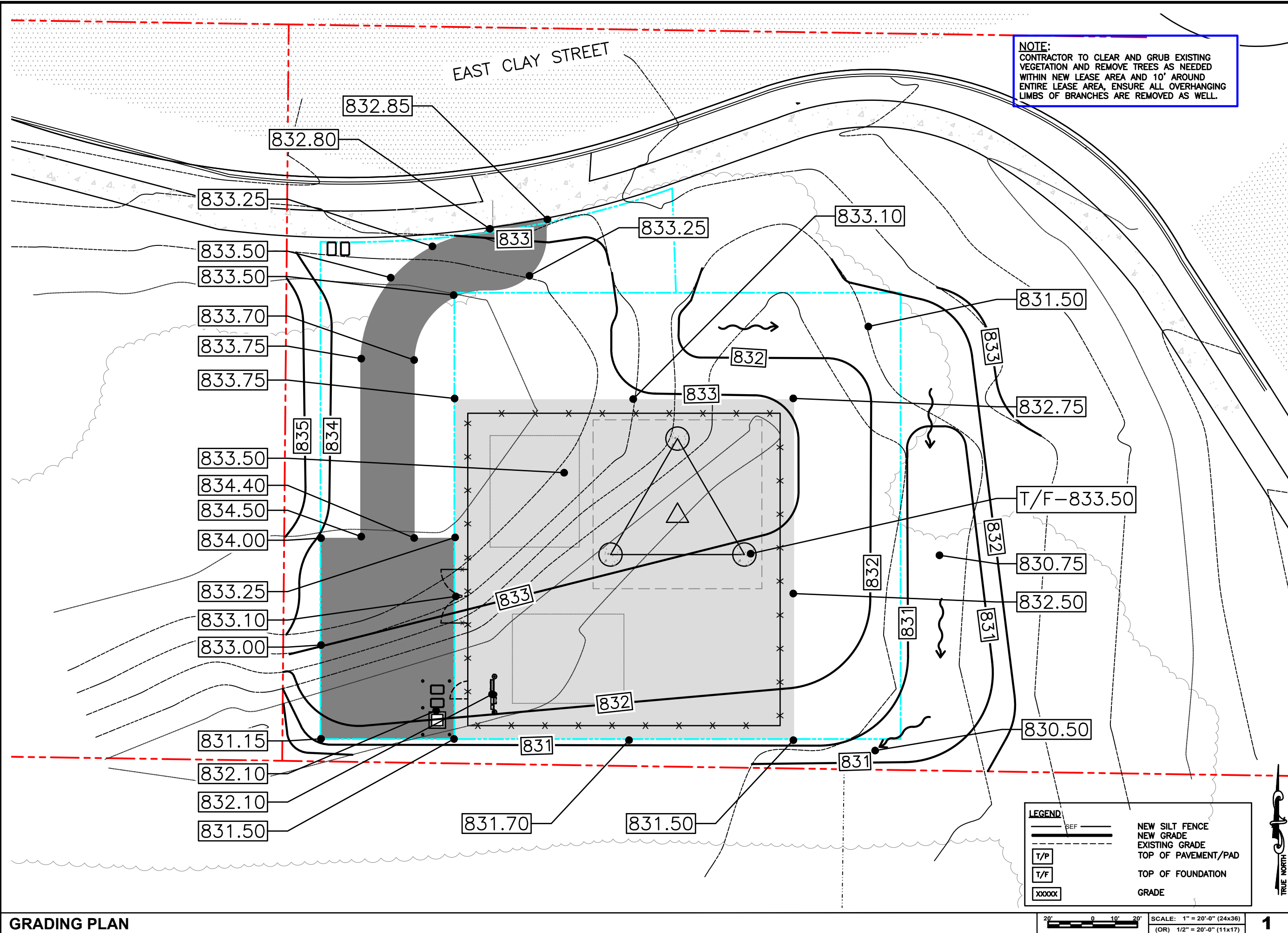
2

RF EXPOSURE WARNING SIGN

SCALE
N.T.S.

1

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TILLMAN
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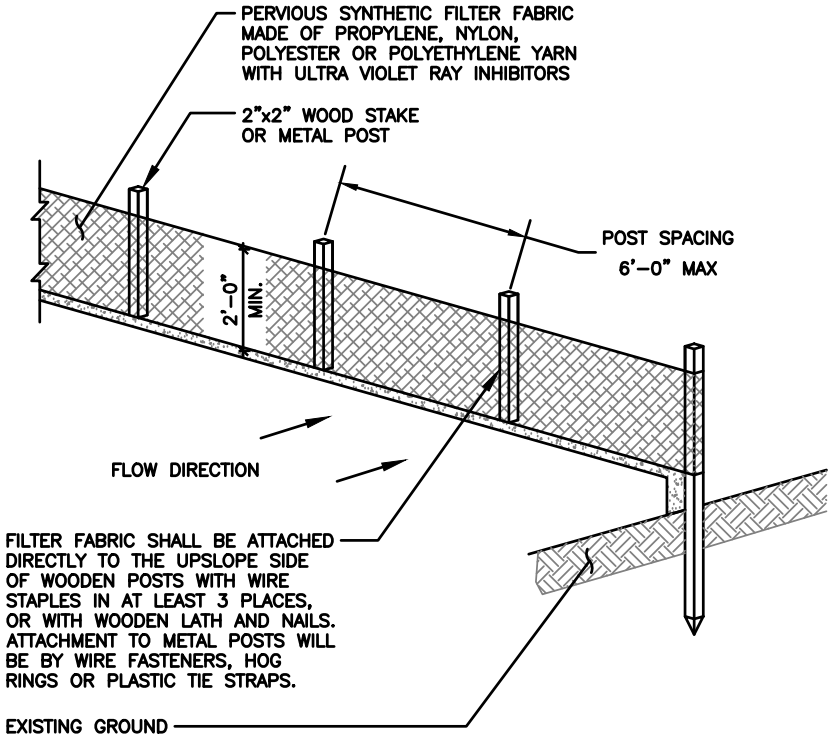
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FA# : 15887152
SITE NAME:
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SITE ADDRESS:
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WHITEWATER, WI 53190

SHEET TITLE
GRADING
PLAN

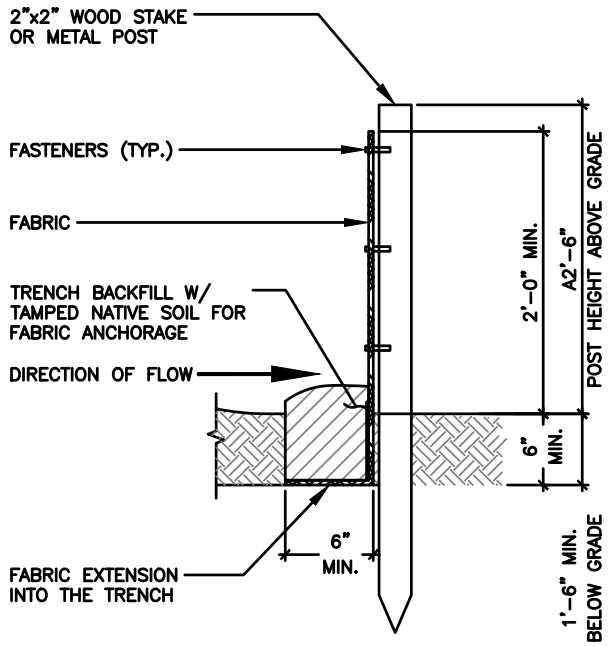
SHEET NUMBER
C-7

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1. ALL VEGETATIVE AND STRUCTURAL EROSION CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE APPLICABLE STATE ADOPTED "PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL" AND THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" OF THE STATE ENVIRONMENTAL PROTECTION AGENCY.
2. A SOIL EROSION CONTROL FENCE SHALL BE INSTALLED BEFORE DISTURBING THE GROUND AND SHALL BE PROVIDED AS SHOWN ON THE PLAN. THE CONDITION OF THE FENCE SHALL BE INSPECTED REGULARLY AND AFTER EVERY RAINSTORM THAT MIGHT PRODUCE RUNOFF. DAMAGED OR DETERIORATED ITEMS SHALL BE REPLACED AND MAINTAINED IN AN EFFECTIVE CONDITION
3. SOIL EROSION CONTROL MEASURES SHALL BE INCLUDED IN CONTRACTOR BID AND PRICING
4. THE ENTIRE SITE SHALL BE GRADED SO THAT NO STORM WATER RUNOFF AND LIKEWISE SOIL SEDIMENT CAN FLOW UNRESTRICTED FROM THE SITE
5. ALL INLETS, STRUCTURES, PIPES, SWALES, AND ROADS SHALL BE KEPT CLEAN AND FREE OF DIRT AND SILT
6. MAINTAIN SOIL EROSION CONTROL MEASURES THROUGH THE DURATION OF THIS PROJECT
7. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN REACHING ONE HALF THE HEIGHT OF THE BARRIER
8. ALL SOIL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED EARTH HAS BEEN PAVED OR VEGETATED
9. ANY EXCESS TOPSOIL THAT IS TO BE STOCKPILED FOR A PERIOD LONGER THAN 2 WEEKS SHALL BE PROTECTED BY EXCAVATING A TRENCH COMPLETELY AROUND THE STOCKPILE TO PREVENT THE ESCAPE OF SOIL MATERIAL THROUGH STORM WATER RUNOFF. STOCKPILES THAT ARE TO REMAIN LONGER THAN 14 DAYS SHALL BE SEEDED WITH AN APPROPRIATE GROUND COVER
10. TO PREVENT SOIL FROM LEAVING THE SITE ON CONSTRUCTION VEHICLE WHEELS, TEMPORARY GRAVEL ROADS AT WORK ENTRANCES SHALL BE CONSTRUCTED AND SHALL EXTEND INTO JOB SITE. THE EXISTING PAVEMENT SURFACES SHALL BE INSPECTED DAILY FOR SOIL DEBRIS AND SHALL BE CLEANED WHEN NECESSARY
11. REPLACE SOIL EROSION CONTROL MEASURES WITH SEED, SOD AND TOPSOIL AT THE COMPLETION OF THE PROJECT
12. SOIL EROSION CONTROL MEASURES SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN PROJECT IS COMPLETED



ISOMETRIC VIEW



SECTION VIEW

SOIL EROSION & SEDIMENT CONTROL NOTES

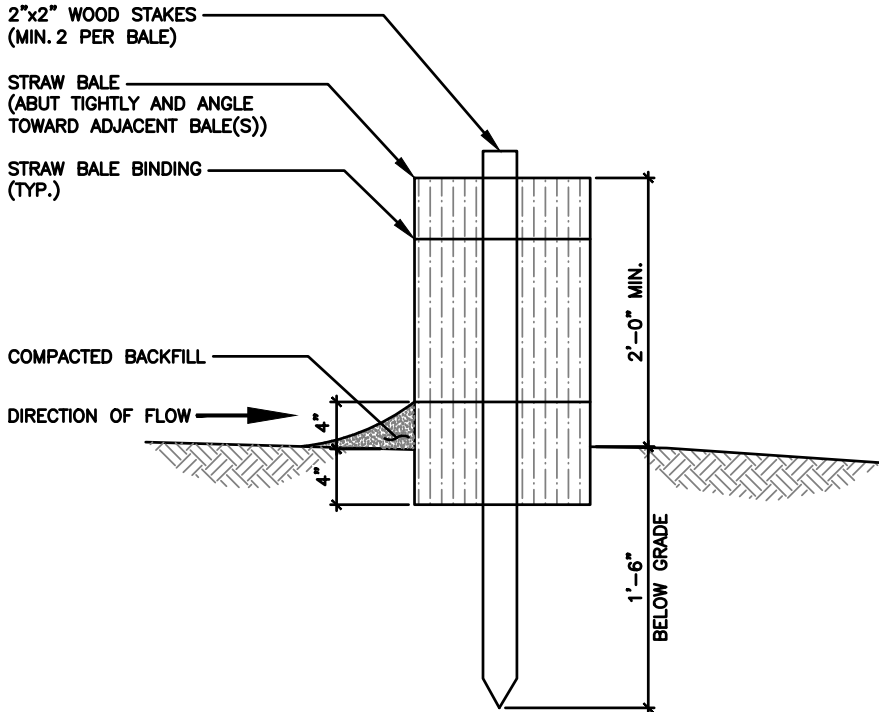
SCALE
N.T.S.

4

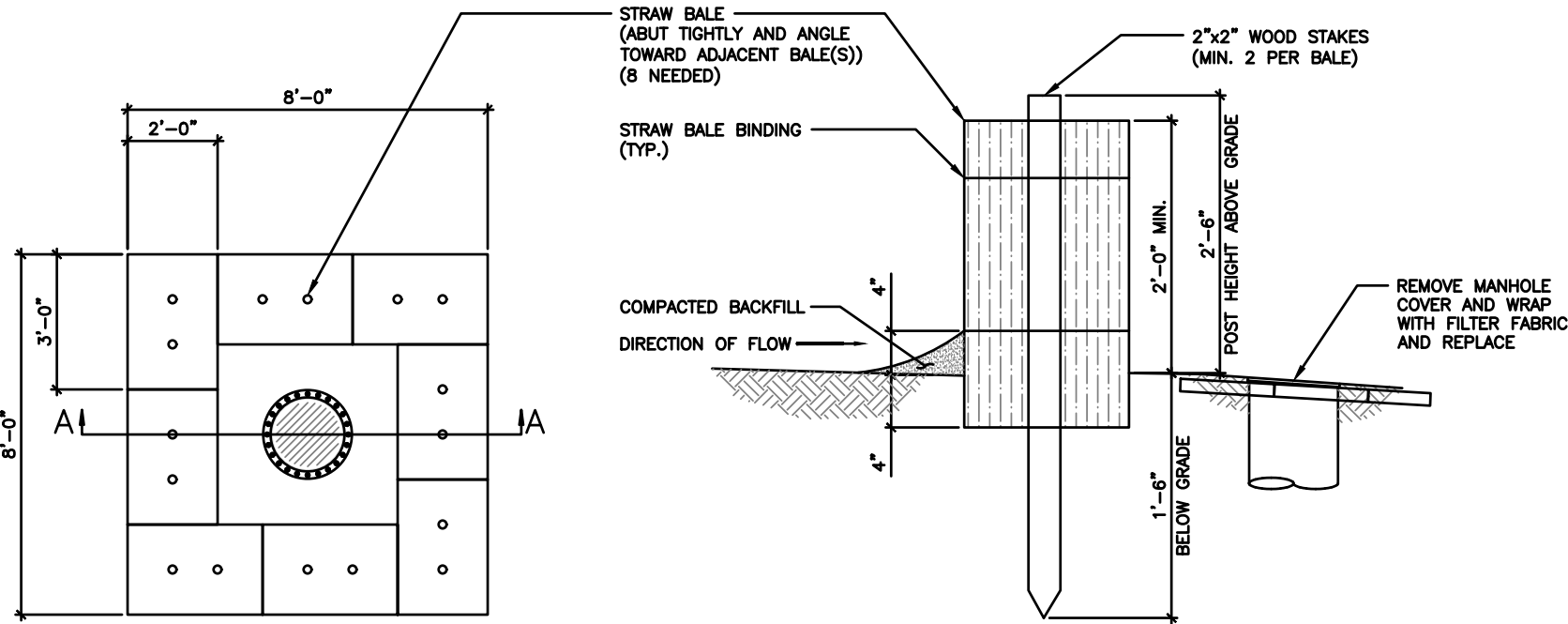
EROSION CONTROL - SILT FENCE

SCALE
N.T.S.

2



SECTION VIEW



SECTION VIEW A-A

EROSION CONTROL - STRAW BALE (OPTIONAL)

SCALE
N.T.S.

3

EROSION CONTROL - STRAW BALE AT STORM INLET MANHOLE (IF NEEDED SEE PLANS)

SCALE
N.T.S.

1

TILLMAN
INFRASTRUCTURE

LCC
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REV	DATE	DESCRIPTION
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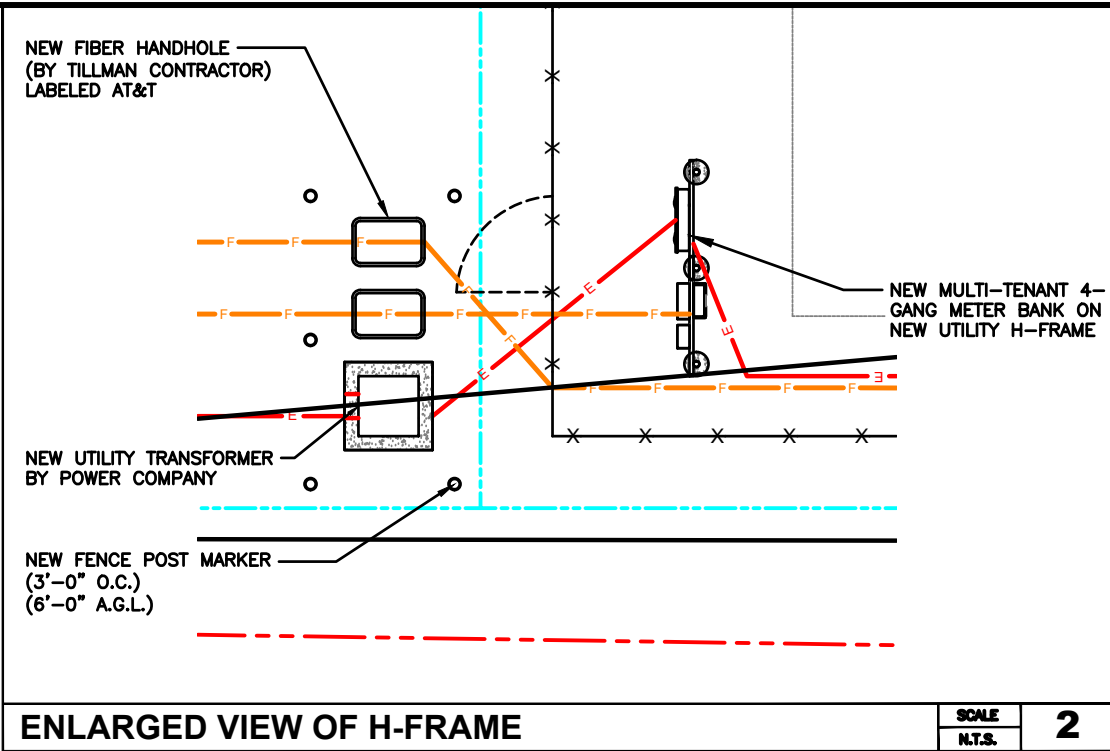
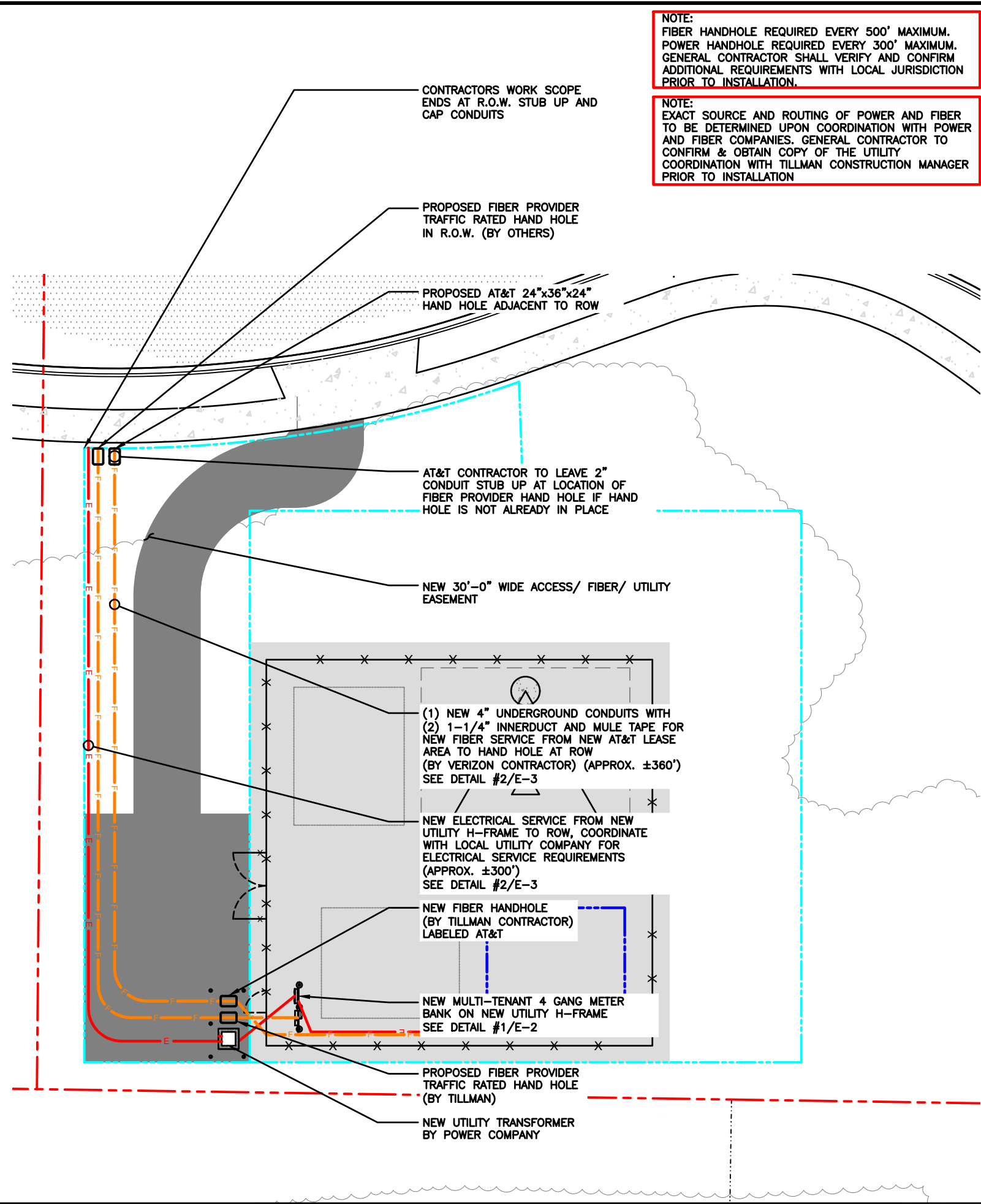
TILLMAN OPP# TI-OPP-23028
FA# : 15887152
SITE NAME:
STRITZEL RENTAL
SITE ADDRESS:
312 ELKHORN ROAD
WHITEWATER, WI 53190

SHEET TITLE
EROSION CONTROL
DETAILS

SHEET NUMBER

C-8

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Know what's below.
Call before you dig.



UTILITY PLAN

20' 0 10' 20' SCALE: 1" = 20'-0" (24x36)
(OR) 1/2" = 20'-0" (11x17)

1

TILLMAN
INFRASTRUCTURE

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SHEET TITLE
UTILITY PLAN

SHEET NUMBER
E-1

1. SUBMITTAL OF BID INDICATES THAT THE CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.

2. CONTRACTOR SHALL PERFORM ALL VERIFICATIONS, OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO ORDERING OF ANY EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE PROJECT MANAGER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.

3. VERIFY HEIGHTS WITH PROJECT MANAGER PRIOR TO INSTALLATION.

4. THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.

5. CONTRACTOR SHALL COORDINATE ALL WORK BETWEEN TRADES AND ALL OTHER SCHEDULING AND PROVISIONARY CIRCUMSTANCES SURROUNDING THE PROJECT.

6. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR COMPLETE AND FUNCTIONALLY OPERATING SYSTEMS ENERGIZED AND READY FOR USE THROUGHOUT AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.

7. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. ELECTRICAL MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORIES AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION OVER THE CONSTRUCTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH ALL CURRENT APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND NBFU. ALL MATERIALS AND EQUIPMENT SHALL BE APPROVED FOR THEIR INTENDED USE AND LOCATION.

8. ALL WORK SHALL COMPLY WITH ALL APPLICABLE GOVERNING STATE, COUNTY AND CITY CODES & OSHA, NFPA, NEC & ASHRAE REQUIREMENTS.

9. ENTIRE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE. ALL WORK, MATERIAL AND EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.

10. PROPERLY SEAL ALL PENETRATIONS. PROVIDE UL LISTED FIRE-STOPS WHERE PENETRATIONS ARE MADE THROUGH FIRE-RATED ASSEMBLIES. WATER-TIGHT USING SILICONE SEALANT.

11. DELIVER ALL BROCHURES, OPERATING MANUALS, CATALOGS AND SHOP DRAWINGS TO THE PROJECT MANAGER AT JOB COMPLETION. PROVIDE MAINTENANCE MANUALS FOR MECHANICAL EQUIPMENT. AFFIX MAINTENANCE LABELS TO MECHANICAL EQUIPMENT.

12. ALL CONDUCTORS SHALL BE COPPER. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG., UNLESS OTHERWISE NOTED. CONDUCTORS SHALL BE TYPE THHW, RATED IN ACCORDANCE WITH NEC 110-14(C).

13. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THE MAXIMUM INTERRUPTING CURRENT TO WHICH THEY MAY BE SUBJECTED.

14. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE; ARTICLES 250 & 810 AND THE UTILITY COMPANY STANDARDS.

15. CONDUIT:

A. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.

B. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.

C. LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE U.L. LISTED AND SHALL BE USED AT FINAL CONNECTIONS TO MECHANICAL EQUIPMENT & RECTIFIERS AND WHERE PERMITTED BY CODE. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL CONTAIN A FULL-SIZE GROUND CONDUCTOR.

D. CONDUIT RUNS SHALL BE SURFACE MOUNTED ON CEILINGS OR WALLS UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL RUN PARALLEL OR PERPENDICULAR TO WALLS, FLOOR, CEILING, OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH THE PROJECT MANAGER PRIOR TO INSTALLING.

E. PVC CONDUIT MAY BE PROVIDED ONLY WHERE SHOWN, OR IN UNDERGROUND INSTALLATIONS. PROVIDE UV-RESISTANT CONDUIT WHERE EXPOSED TO THE ATMOSPHERE. PROVIDE GROUND CONDUCTOR IN ALL PVC RUNS; EXCEPT WHERE PERMITTED BY CODE TO OMIT.

17. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS. BACKGROUND SHALL BE BLACK WITH WHITE LETTERS; EXCEPT AS REQUIRED BY CODE TO FOLLOW A DIFFERENT SCHEME.

18. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL OF POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE PROJECT MANAGER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE.

19. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION. LEGALLY DISPOSE OF ALL REMOVED, UNUSED AND EXCESS MATERIAL GENERATED BY THE WORK OF THIS CONTRACT. DELIVER ITEMS INDICATED ON THE DRAWINGS TO THE OWNER IN GOOD CONDITION. OBTAIN SIGNED RECEIPT UPON DELIVERY.

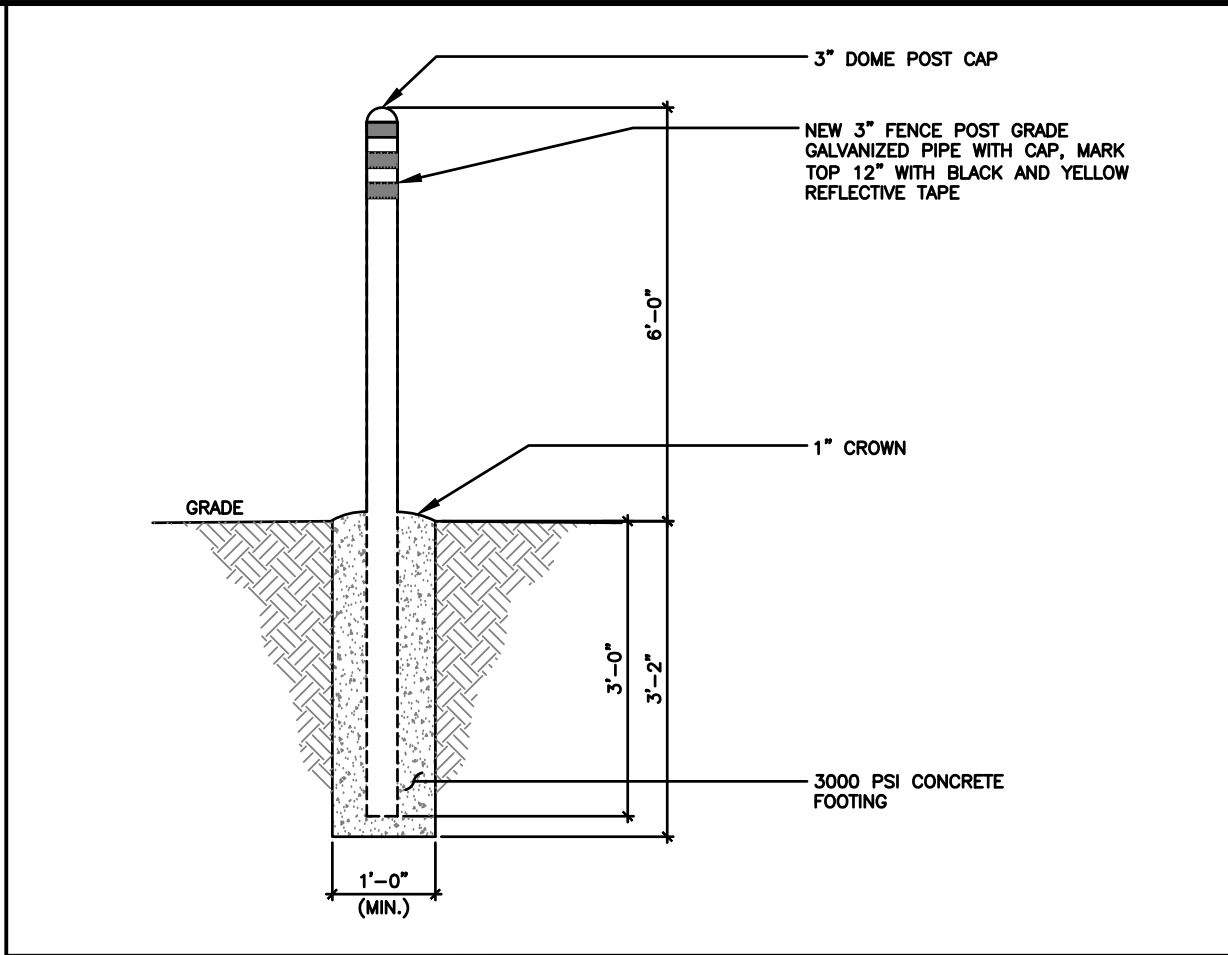
20. COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS SHALL BE PAID BY THE CONTRACTOR.

21. VERIFY ALL EXISTING CIRCUITRY PRIOR TO REMOVAL AND NEW WORK. MAINTAIN POWER TO ALL OTHER AREAS & CIRCUITS NOT SCHEDULED FOR REMOVAL.

22. RED LINED AS-BUILT PLANS SHALL BE PROVIDED TO THE CONSTRUCTION MANAGER.

ELECTRICAL NOTES

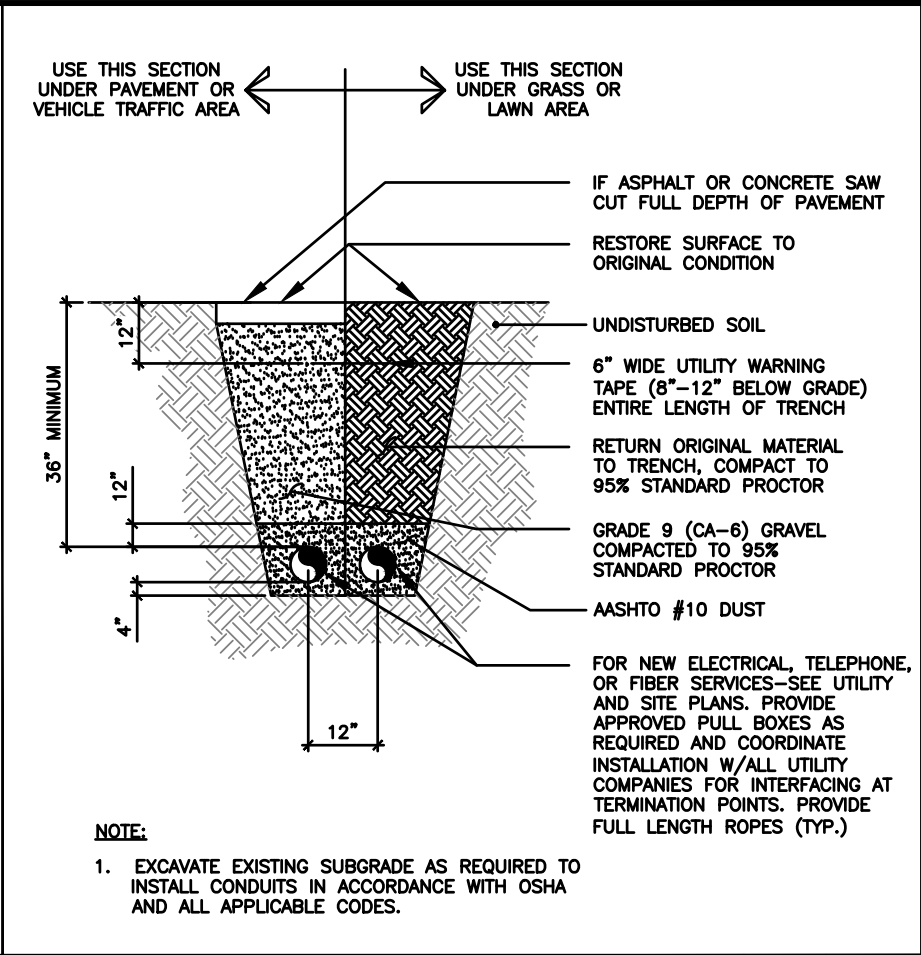
4



FENCE POST MARKER DETAIL

SCALE
N.T.S.

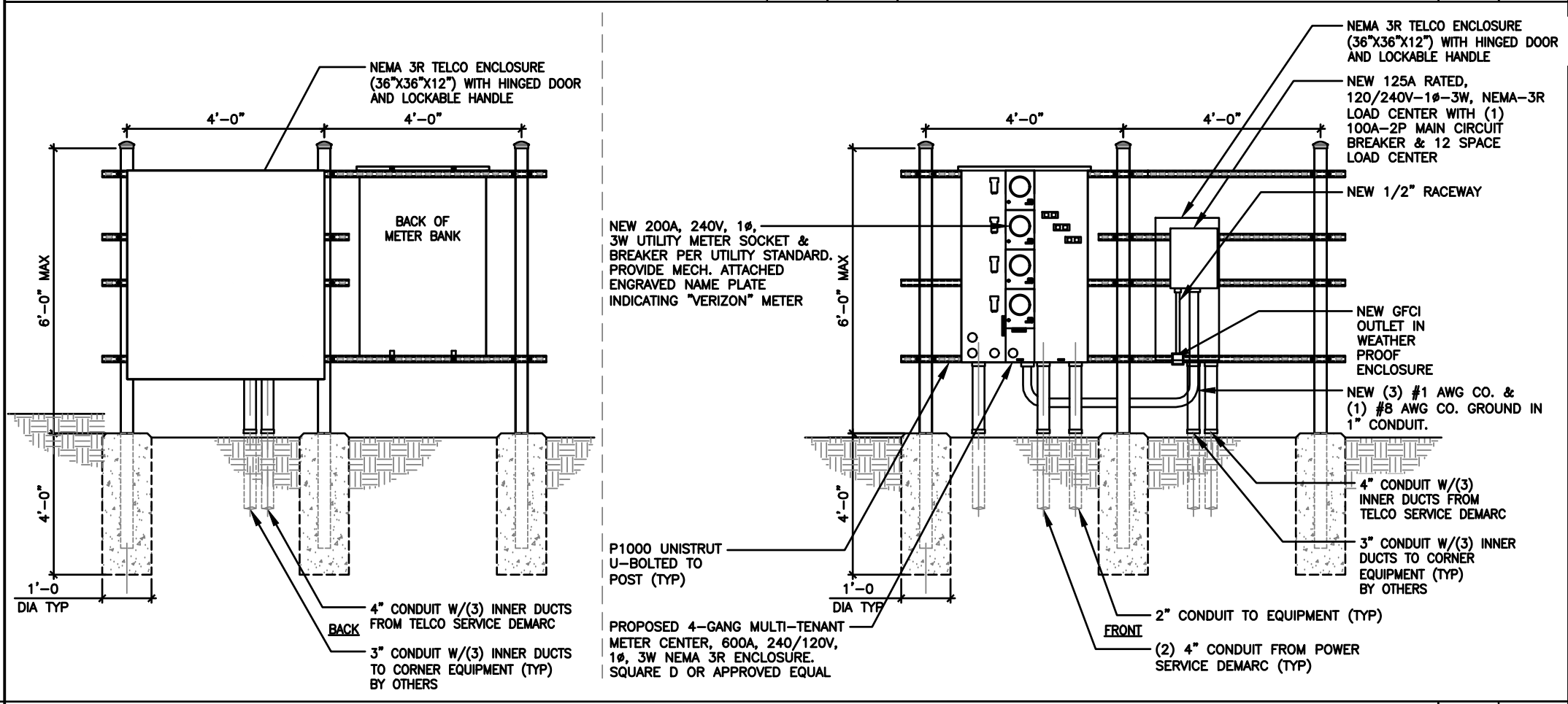
3



TYPICAL TRENCH DETAIL

SCALE
N.T.S.

2



UTILITY FRAME DETAIL

SCALE
N.T.S.

1

TILLMAN

INFRASTRUCTURE

LCC

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FA# : 15887152

SITE NAME:

STRITZEL RENTAL

SITE ADDRESS:

312 ELKHORN ROAD

WHITEWATER, WI 53190

SHEET TITLE

ENLARGED

UTILITY PLAN

SHEET NUMBER

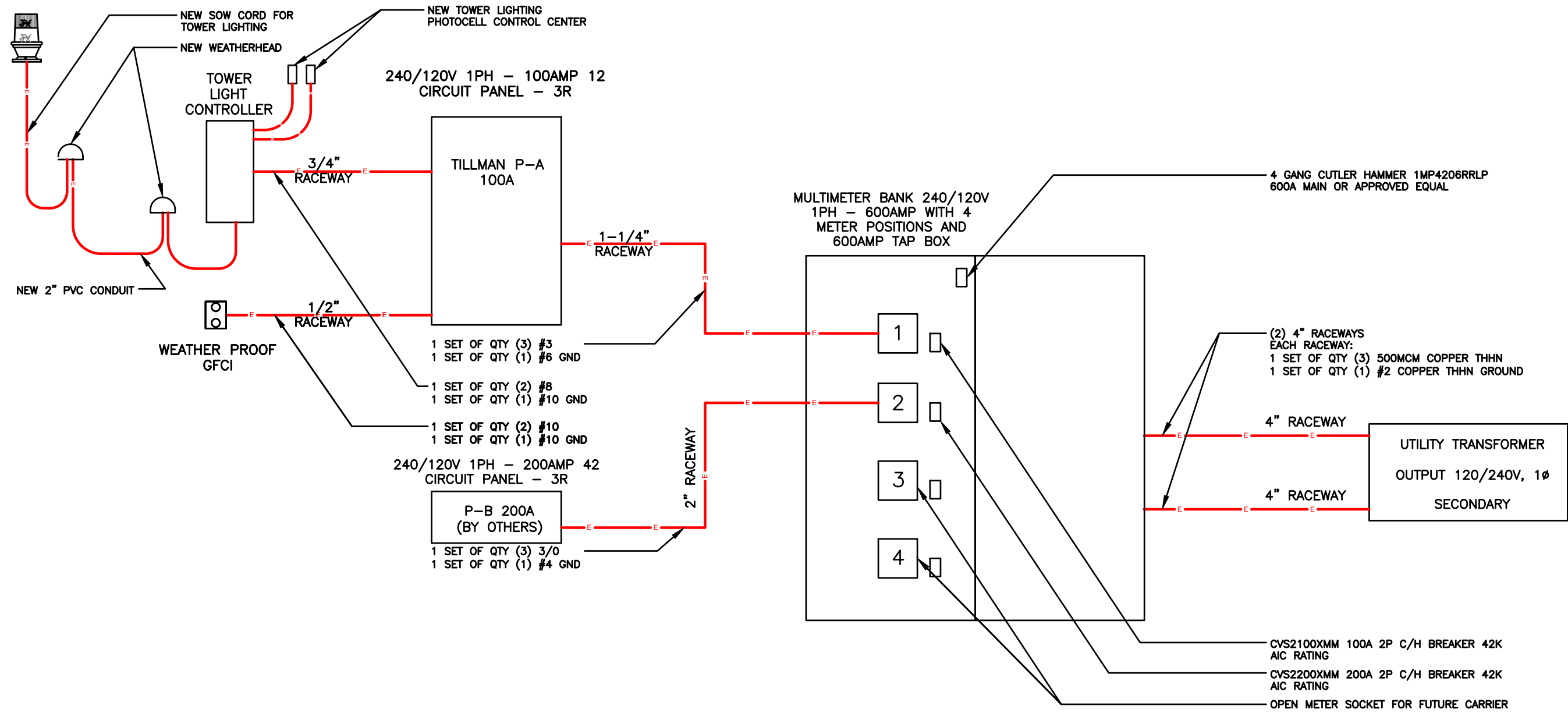
E-2

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METER POSITION 1 – TILLMAN LOAD CENTER (P-A)																									
LOAD				LOAD PER PHASE (VA)		WIRE COLOR	LOADS CONTINUOUS	LOADS NON-CONTINUOUS	LOADS SUB-PANEL	WIRE SIZE	GROUNDING WIRE SIZE	TRIP	TRIP	GROUNDING WIRE SIZE	WIRE SIZE	LOADS SUB-PANEL	LOADS NON-CONTINUOUS	LOADS CONTINUOUS	WIRE COLOR	LOAD PER PHASE (VA)	LOAD				
DESCRIPTION	QTY.	UNIT V.A.	PHASE		PHASE															UNIT V.A.	QTY.	DESCRIPTION			
			A	B	A																		B	A	B
1	GFCI RECEPTACLES	1	600	600		BLK		X		10	10	20							BLK			1	SPARE	2	
3	TOWER LIGHT	1	1600		1600	RED	X			8	10	20							RED			1	SPARE	4	
5	TOWER LIGHT	1	1600	1600		BLK	X			8	10	20							BLK			1	SPARE	6	
7	SPARE	1				RED													RED			1	SPARE	8	
9	SPARE	1				BLK													BLK			1	SPARE	10	
11	SPARE	1				RED													RED			1	SPARE	12	
		SUBTOTAL CONTINUOUS		1600	1600																	SUBTOTAL CONTINUOUS	TOTAL AMPS CONTINUOUS x 1.25		4000
		SUBTOTAL NON-CONTINUOUS		600	-															-	-	SUBTOTAL NON-CONTINUOUS	TOTAL AMPS NON-CONTINUOUS		600
																				-	-	SUBTOTAL SUB-PANEL	TOTAL AMPS SUB-PANEL		4600
PANEL DESIGNATION: ELECTRICAL PANEL (PA)																									
MAIN LUGS: N/A		MAIN BREAKER: 100 AMP														BRANCH BREAKER TYPE: SIEMENS – BL									
VOLTAGE: 120/240		CYCLE: 60		PHASE: 1		WIRES: 3		MAIN COPPER BUS: 100 AMPS				NEUTRAL: 100 AMPS								TOTAL KVA			4.60		
																				TOTAL AMPS			19.16		

TILLMAN P - A PANEL SCHEDULE

2



ELECTRICAL SINGLE LINE DIAGRAM

1



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SHEET TITLE
ELECTRICAL
DIAGRAM

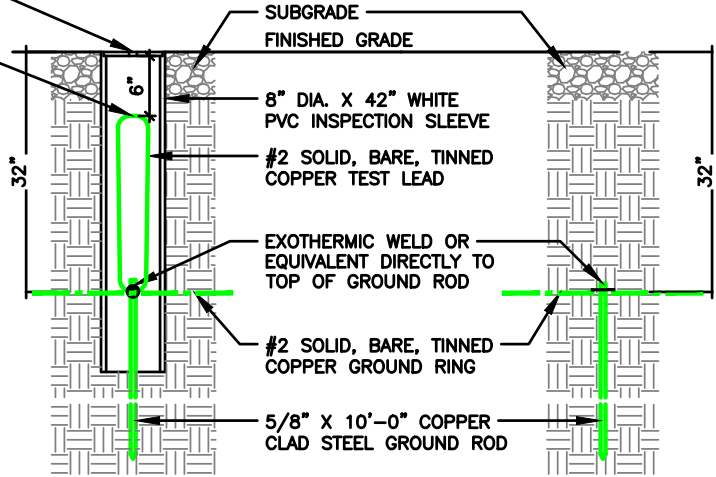
SHEET NUMBER
E-3

GROUNDING NOTES:

- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
- ALL WIRES SHALL BE AWG THHN/THWN COPPER UNLESS NOTED OTHERWISE.
- GROUNDING CONNECTIONS TO GROUND RODS, GROUND RING WIRE, TOWER BASE AND FENCE POSTS SHALL BE EXOTHERMIC ("CADWELDS") UNLESS NOTED OTHERWISE. CLEAN SURFACES TO SHINY METAL. WHERE GROUND WIRES ARE CADWELDED TO GALVANIZED SURFACES, SPRAY CADWELD WITH GALVANIZING PAINT.
- GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO-HOLE BRASS MECHANICAL CONNECTORS WITH STAINLESS STEEL HARDWARE (INCLUDING SCREW SET) CLEAN GROUND BAR TO SHINY METAL. AFTER MECHANICAL CONNECTION, TREAT WITH PROTECTIVE ANTIOXIDANT COATING.
- GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS.
- ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.
- INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE ("CADWELDS") TO ANTENNA MOUNTS AND GROUND RING. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LUGS.
- THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS POSITION ACCORDING TO GROUNDING PLAN. THE GROUND RODS SHALL BE 5/8"x10'-0" COPPER CLAD STEEL INTERCONNECTED WITH #2 BARE TINNED COPPER WIRE BURIED 36" BELOW GRADE. BURY GROUND RODS A MAXIMUM OF 15' APART, AND A MINIMUM OF 8' APART.
- IF ROCK IS ENCOUNTERED GROUND RODS SHALL BE PLACED AT AN OBLIQUE ANGLE NOT TO EXCEED 45°.
- EXOTHERMIC WELDS SHALL BE MADE IN ACCORDANCE WITH ERICO PRODUCTS BULLETIN A-AT.
- CONSTRUCTION OF GROUND RING AND CONNECTIONS TO EXISTING GROUND RING SYSTEM SHALL BE DOCUMENTED WITH PHOTOGRAPHS PRIOR TO BACKFILLING SITE. PROVIDE PHOTOS TO THE VERIZON WIRELESS CONSTRUCTION MANAGER.
- ALL GROUND LEADS EXCEPT THOSE TO THE EQUIPMENT ARE TO BE #2 BARE TINNED COPPER WIRE. ALL EXTERIOR GROUND BARS TINNED COPPER.
- PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LUBE INC.). PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUAL.
- ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRM TO TEST AND VERIFY THAT IMPEDANCE DOES NOT EXCEED FIVE OHMS TO GROUND BY MEANS OF "FALL OF POTENTIAL TEST". TEST SHALL BE WITNESSED BY A METROPCS REPRESENTATIVE, AND RECORDED ON THE "GROUND RESISTANCE TEST" FORM.
- WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, INSTALL WIRE IN 3/4" PVC SLEEVE, FROM 1' BELOW GRADE AND SEAL TOP WITH SILICONE MATERIAL.
- PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.
- ANY SITE WHERE THE EQUIPMENT (BTS, CABLE BRIDGE, PPC, GENERATOR, ETC.) IS LOCATED WITHIN 6 FEET OF METAL FENCING, THE GROUND RING SHALL BE BONDED TO THE NEAREST FENCE POST USING (3) RUNS OF #2 BARE TINNED COPPER WIRE.

REMOVABLE COVER SHALL BE REMOVABLE BY HAND

6" MAXIMUM FROM TOP OF PVC PIPE TO TOP OF TEST LEAD



NOTE:
A LARGER CONDUCTOR SHALL BE REQUIRED IN AREAS HIGHLY PRONE TO LIGHTNING AND/OR AREAS W/HIGHLY ACIDIC SOIL

NOTE:
GROUND RODS MAY BE COPPER CLAD STEEL OR SOLID COPPER

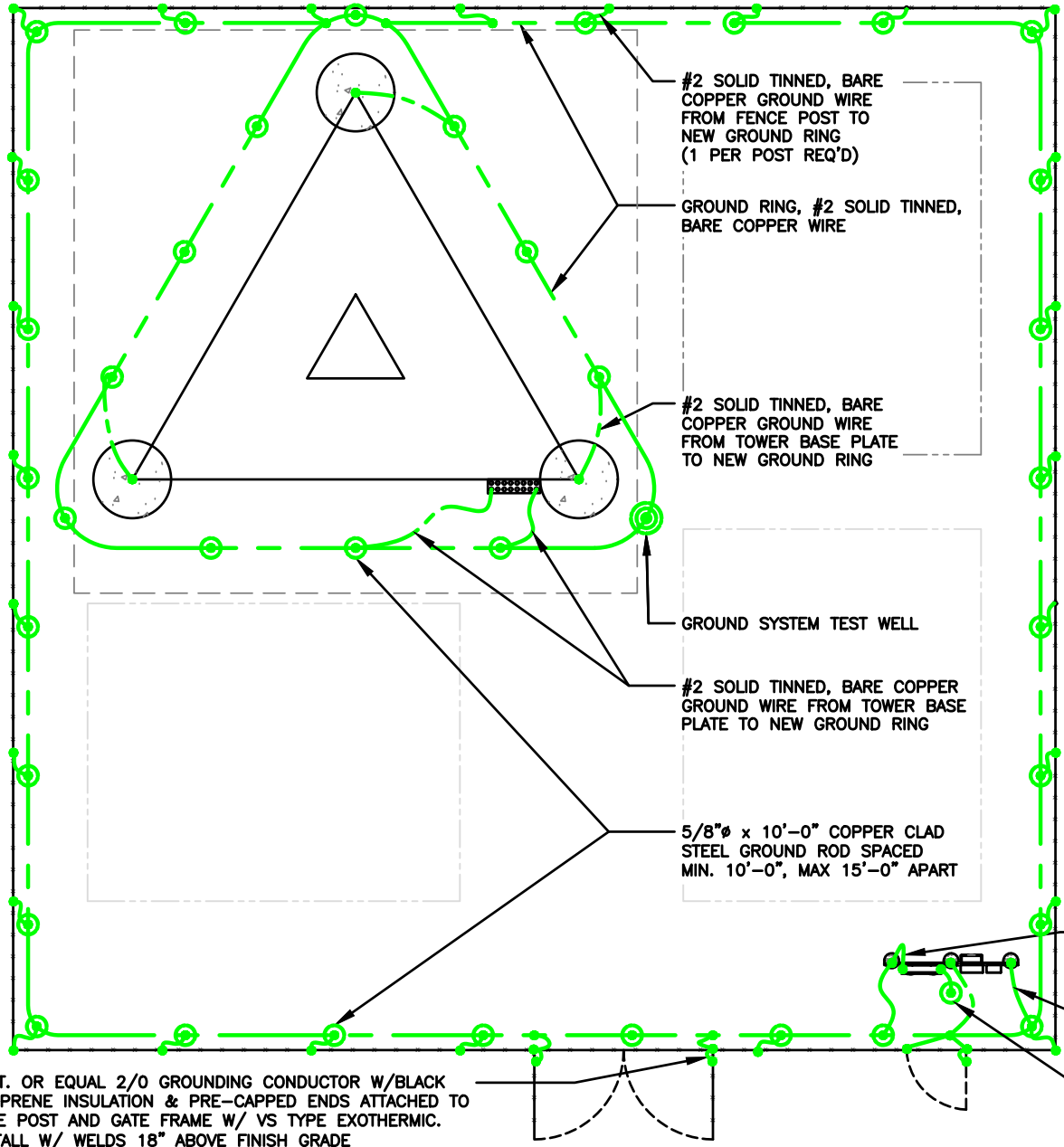
NOTE:
GROUND RODS SHALL HAVE A RECOMMENDED SPACING TWICE THE LENGTH OF THE ROD

NOTE:
SEE RESISTIVITY REPORT FOR VERIFICATION AS AVAILABLE

NOTE:
GROUND RODS INSTALLED WITHIN CLOSE PROXIMITY TO TOWER OR WHEN SOIL IS AT OR BELOW 2,000 OHM-CM, SHALL BE GALVANIZED TO PREVENT GALVANIC CORROSION OF TOWER

GROUND WELL, ROD, AND TEST WELL DETAIL

SCALE
N.T.S. 2



NOTE:
GROUNDING TO BE INSTALLED WITHIN 2'-0" OF FENCE LINE WHENEVER POSSIBLE

GROUNDING LEGEND

- MECHANICAL CONNECTION
- COMPRESSION FITTING CONNECTION
- EXOTHERMIC WELD CONNECTION
- 5/8"x10' COPPER-CLAD STEEL GROUND ROD
- 5/8"x10' COPPER-CLAD STEEL GROUND ROD WITH INSPECTION WELL
- NEW GROUND WIRING
- EXISTING GROUND WIRING
- TINNED COPPER GROUND BAR 1/4"x4"x12" OR 1/4"x4"x20"
- COLLECTOR GROUND BAR
- MAIN GROUND BAR

NOTE:
SEE COMPOUND PLAN FOR COMPOUND ORIENTATION, UTILITY H-FRAME, GATE AND TOWER LOCATION.

NOTE:
REFER TO SPECIFIC CARRIER EQUIPMENT GROUNDING PLAN FOR NEW CARRIER EQUIPMENT GROUNDING.

NOTE:
OBJECTIVE:
• RING AROUND TOWER WITH ALL TOWER LEGS GROUNDED, MONOPOLE SHALL HAVE AT LEAST TWO GROUNDS TO EARTH.
• CONNECTION TO FENCE POSTS AT ALL CORNERS OR CHANGES IN FENCE DIRECTION GREATER THE 45°.
• CONNECTIONS TO EACH SIDE OF ANY GATE POSTS.
• CONNECTIONS TO UTILITY H-FRAME.
• INSTALL ENOUGH GROUND RODS TO ENSURE 5 OHMS OR LESS RESISTANCE.

GROUNDING NOTES

SCALE
N.T.S. 3

GROUNDING PLAN AND DETAILS

SCALE
N.T.S. 1

TILLMAN
INFRASTRUCTURE

LCC
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SHEET TITLE
GROUNDING PLAN
& DETAILS

SHEET NUMBER
G-1

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TILLMAN
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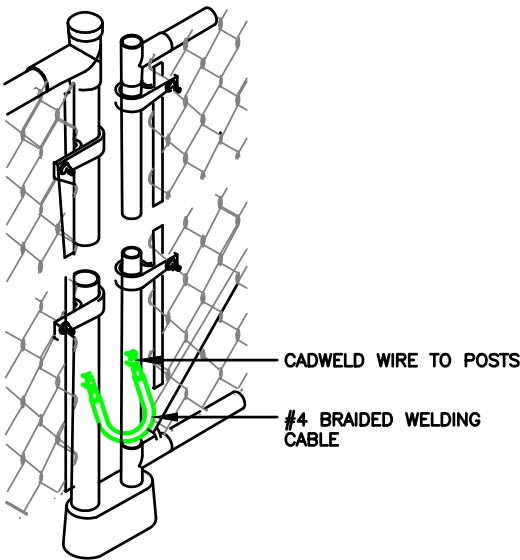
SHEET TITLE
GROUNDING PLAN
& RISER DIAGRAM

SHEET NUMBER
G-2

NOT USED

SCALE
N.T.S.

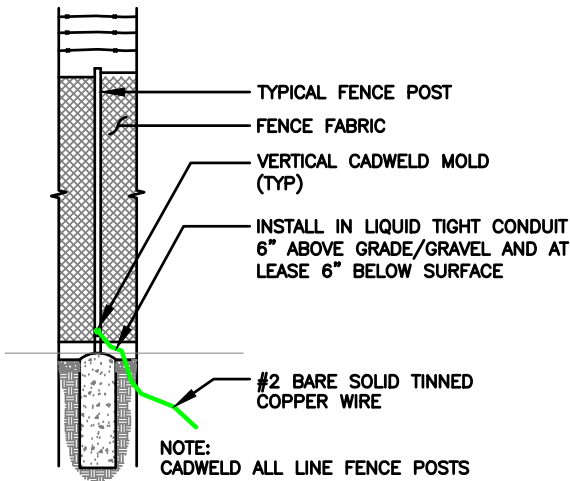
2



GATE GROUNDING DETAIL

SCALE
N.T.S.

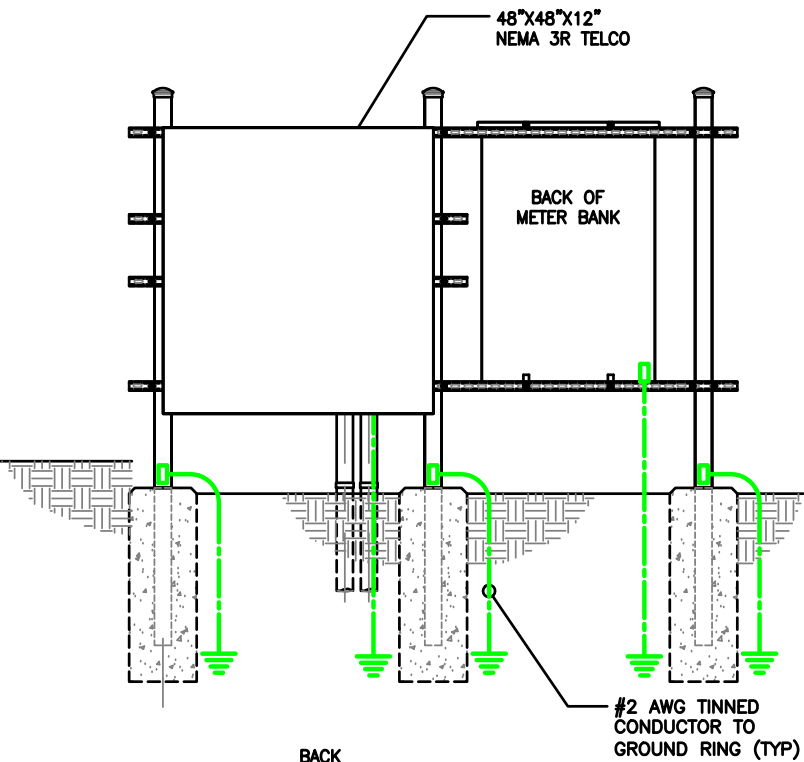
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TYPICAL FENCE POST GROUNDING

SCALE
N.T.S.

3



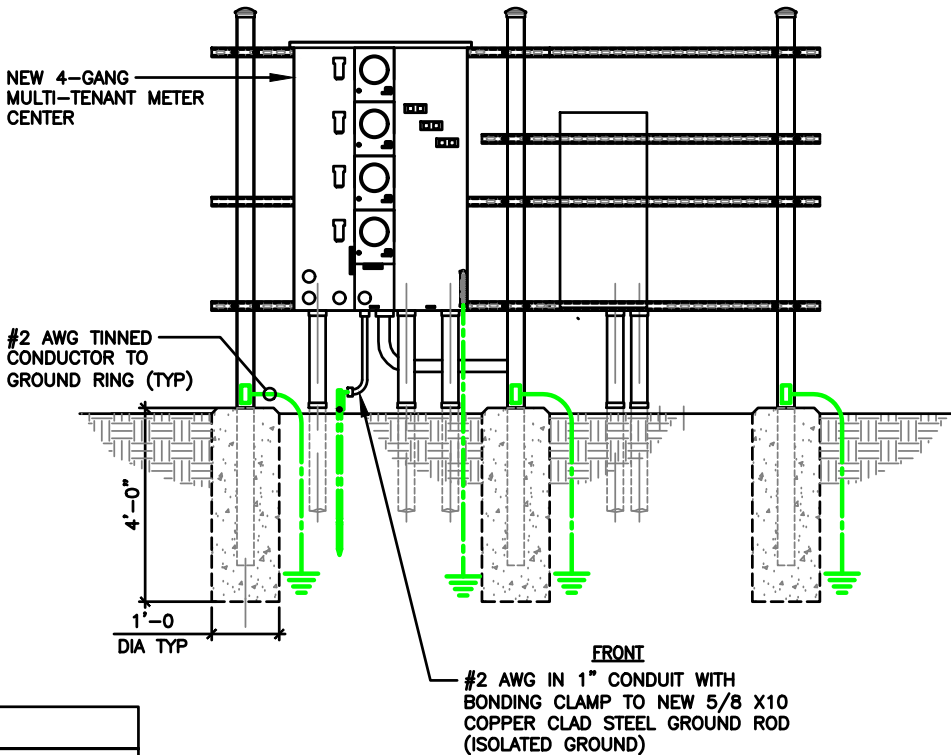
GROUNDING LEGEND

- | | | | |
|--|---|--|--|
| | MECHANICAL CONNECTION | | NEW GROUND WIRING |
| | COMPRESSION FITTING CONNECTION | | EXISTING GROUND WIRING |
| | EXOTHERMIC WELD CONNECTION | | TINNED COPPER GROUND BAR
1/4"x4"x12" OR 1/4"x4"x20" |
| | 5/8"x10' COPPER-CLAD STEEL GROUND ROD | | COLLECTOR GROUND BAR |
| | 5/8"x10' COPPER-CLAD STEEL GROUND ROD
WITH INSPECTION WELL | | MAIN GROUND BAR |

H-FRAME GROUNDING

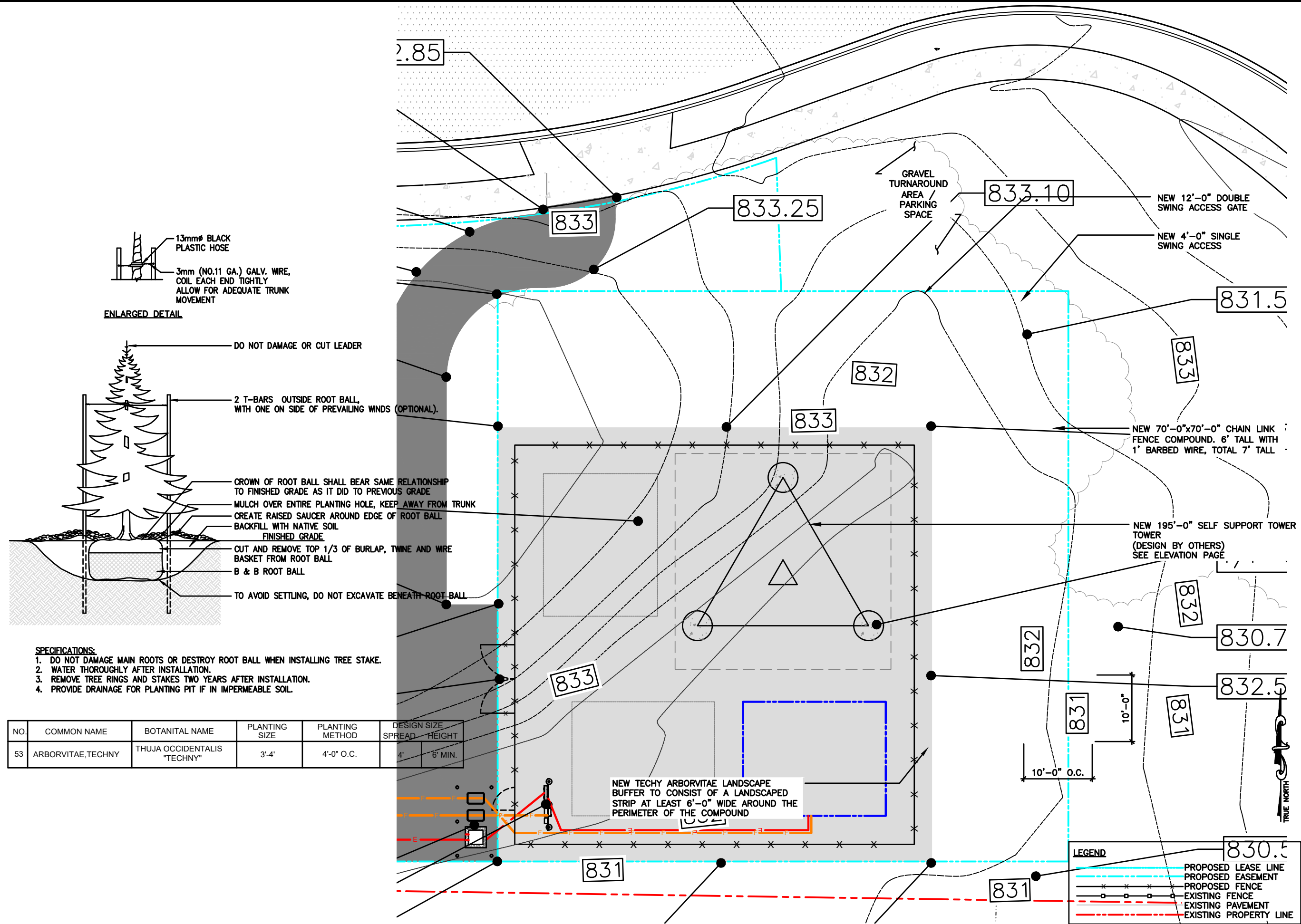
SCALE
N.T.S.

1



NOTE:

2 BOLT MECHANICAL LUG CONNECTION AT ALL EQUIPMENT
GROUND POINT: ADD NON OX COMPOUND




NO.	COMMON NAME	BOTANICAL NAME	PLANTING SIZE	PLANTING METHOD	DESIGN SIZE	
					SPREAD	HEIGHT
53	ARBORVITAE, TECHNY	THUJA OCCIDENTALIS "TECHNY"	3'-4'	4'-0" O.C.	4'	6' MIN.

SPECIFICATIONS:

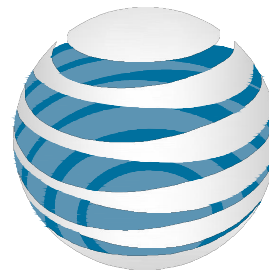
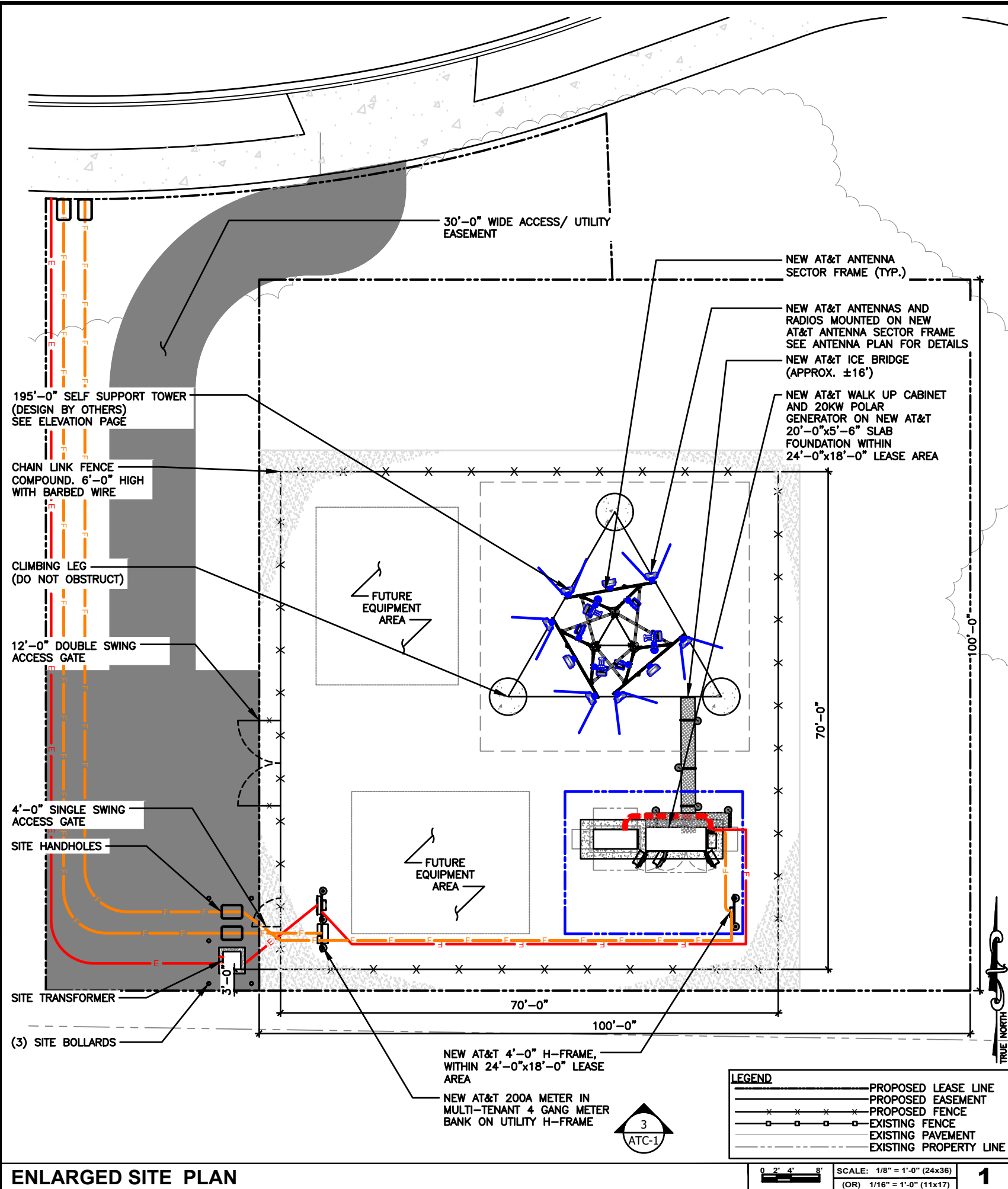
1. DO NOT DAMAGE MAIN ROOTS OR DESTROY ROOT BALL WHEN INSTALLING TREE STAKE.
2. WATER THOROUGHLY AFTER INSTALLATION.
3. REMOVE TREE RINGS AND STAKES TWO YEARS AFTER INSTALLATION.
4. PROVIDE DRAINAGE FOR PLANTING PIT IF IN IMPERMEABLE SOIL.

LEGEND

PROPOSED LEASE LINE
PROPOSED EASEMENT
PROPOSED FENCE
EXISTING FENCE
EXISTING PAVEMENT
EXISTING PROPERTY LINE

	SCALE: 1/8" = 1'-0" (24x36) (OR) 1/16" = 1'-0" (11x17)
---	---

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AT&T

AT&T SITE NUMBER: TI-OPP-23028
AT&T SITE NAME: STRITZEL RENTAL
FA CODE: 15887152
SITE ADDRESS: 312 ELKHORN ROAD
WHITEWATER, WI 53190
TILLMAN SITE # TI-OPP-23028

SITE INFORMATION

SITE ADDRESS:	312 ELKHORN ROAD WHITEWATER, WI 53190	LANDLORD OWNER:	CITY OF ASHLEY PARCEL 011427400026 WHITEWATER, WI 53190
LATITUDE (NAD 83):	38°19'09.7530" N (42.83056204°)	TOWER OWNER:	TILLMAN INFRASTRUCTURE 152 W. 57TH STREET NEW YORK, NEW YORK 10019
LONGITUDE (NAD 83):	89°11'01.3798" W (-88.71090223°)	STRUCTURE TYPE:	SELF SUPPORT TOWER TOWER
GROUND ELEVATION:	829.94' (AMSL)	STRUCTURE HEIGHT:	195'-0" (AGL)
JURISDICTION:	CITY OF WHITEWATER	TILLMAN SITE #:	TI-OPP-23028
PARCEL/MAP NUMBER:	A91900003		

PROJECT TEAM

APPLICANT:	TILLMAN INFRASTRUCTURE 152 W. 57TH STREET NEW YORK, NEW YORK 10019
PROJECT MANAGEMENT FIRM:	LCC TELECOM SERVICES 10700 HIGGINS ROAD, SUITE 240 ROSEMONT, IL 60018 (847) 608-6300
ARCHITECT ENGINEERING:	JOHN M. BANKS 604 FOX GLEN BARRINGTON, IL 60010 CONTACT: JOHN M. BANKS PHONE: (847) 277-0070 EMAIL: JBANKS@WESTCHESTERSERVICES.COM

DRAWING INDEX

AT-T-1	TITLE SHEET & OVERALL SITE PLAN
AT-C-1	ELEVATION, ANTENNA PLAN & SCHEDULE
AT-C-2	WALK UP CABINET PAD DETAILS
AT-C-2.1	WALK UP CABINET PAD DETAILS
AT-C-3	CONSTRUCTION DETAILS
AT-C-3.1	CONSTRUCTION DETAILS
AT-C-3.2	CONSTRUCTION DETAILS
AT-C-4	RRH, ANTENNA & EQUIPMENT SPECIFICATIONS
AT-E-1	ENLARGED UTILITY PLAN
AT-E-2	ELECTRICAL PANEL SCHEDULE, DIAGRAM & NOTES
AT-E-3	DC/FIBER SYSTEM DIAGRAM
AT-E-4	DC WIRING DIAGRAM
AT-G-1	GROUNDING PLAN & RISER DIAGRAM
AT-G-2	GROUNDING DETAILS & NOTES

CODE COMPLIANCE

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 CODES.

- 2023 WISCONSIN STATE BUILDING CODE
- 2023 WISCONSIN STATE ELECTRICAL CODE
- 2023 WISCONSIN STATE MECHANICAL CODE
- 2023 WISCONSIN UNIFORM PLUMBING CODE
- 2023 WISCONSIN STATE FIRE CODE
- AMERICAN CONCRETE INSTITUTE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- MANUAL OF STEEL CONSTRUCTION 13TH EDITION
- ANSI/TIA-222-H
- TIA 607
- INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEERING 81
- IEEE C2 NATIONAL ELECTRIC SAFETY CODE
- LATEST EDITION
- TELECORDIA GR-1275

TILLMAN
INFRASTRUCTURE



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EMAIL: AE@Westchesterservices.com

DRAWN BY: DWM

CHECKED BY: MC

REV	DATE	DESCRIPTION
A	08/29/23	PRELIMINARY CD

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF WISCONSIN

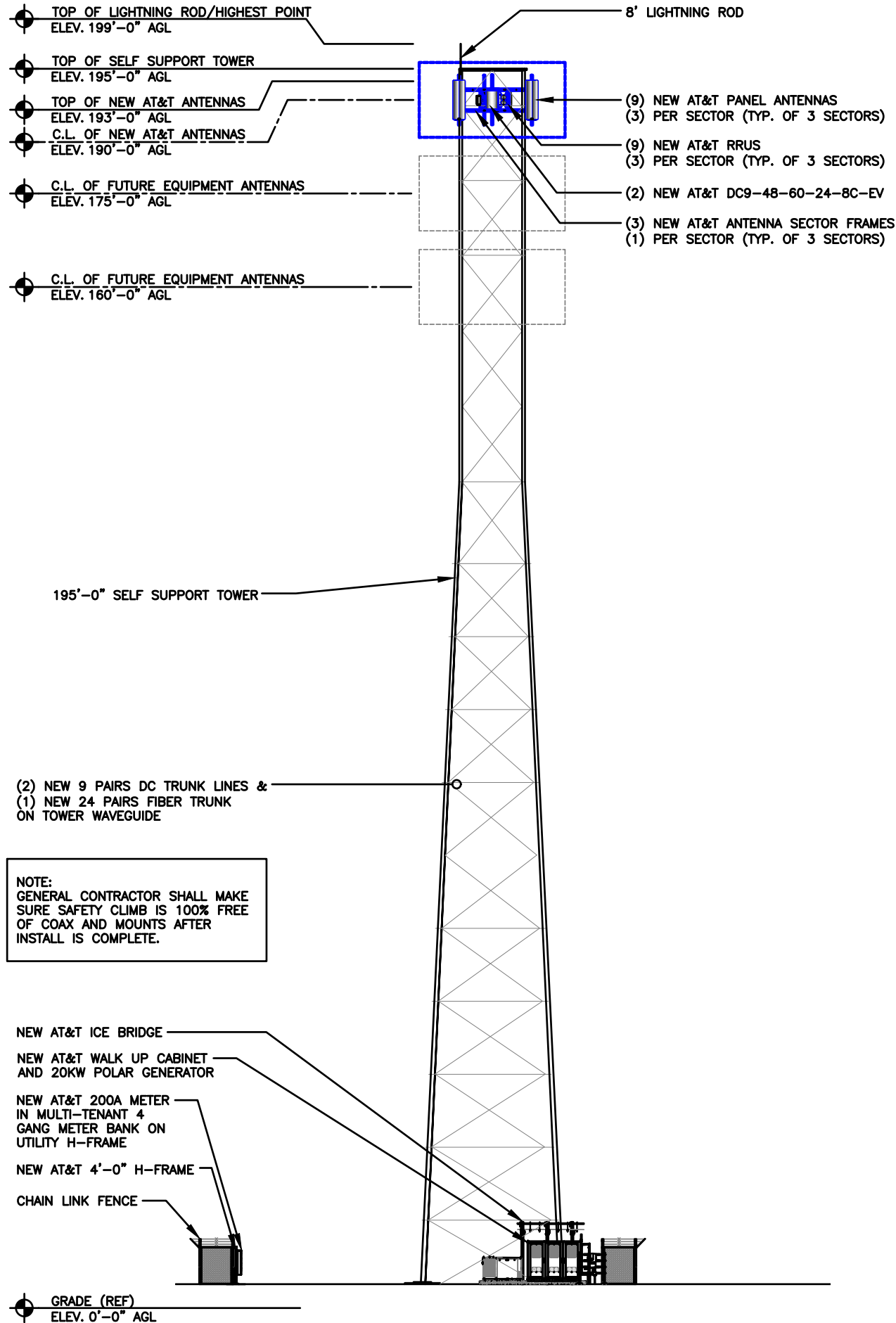
EXP. DATE: 11/30/24

AT&T SITE # TI-OPP-23028
AT&T SITE NAME: STRITZEL RENTAL
FA # 15887152
SITE ADDRESS:
312 ELKHORN ROAD
WHITEWATER, WI 53190

SHEET TITLE
TITLE SHEET & OVERALL SITE PLAN

SHEET NUMBER
AT-T-1

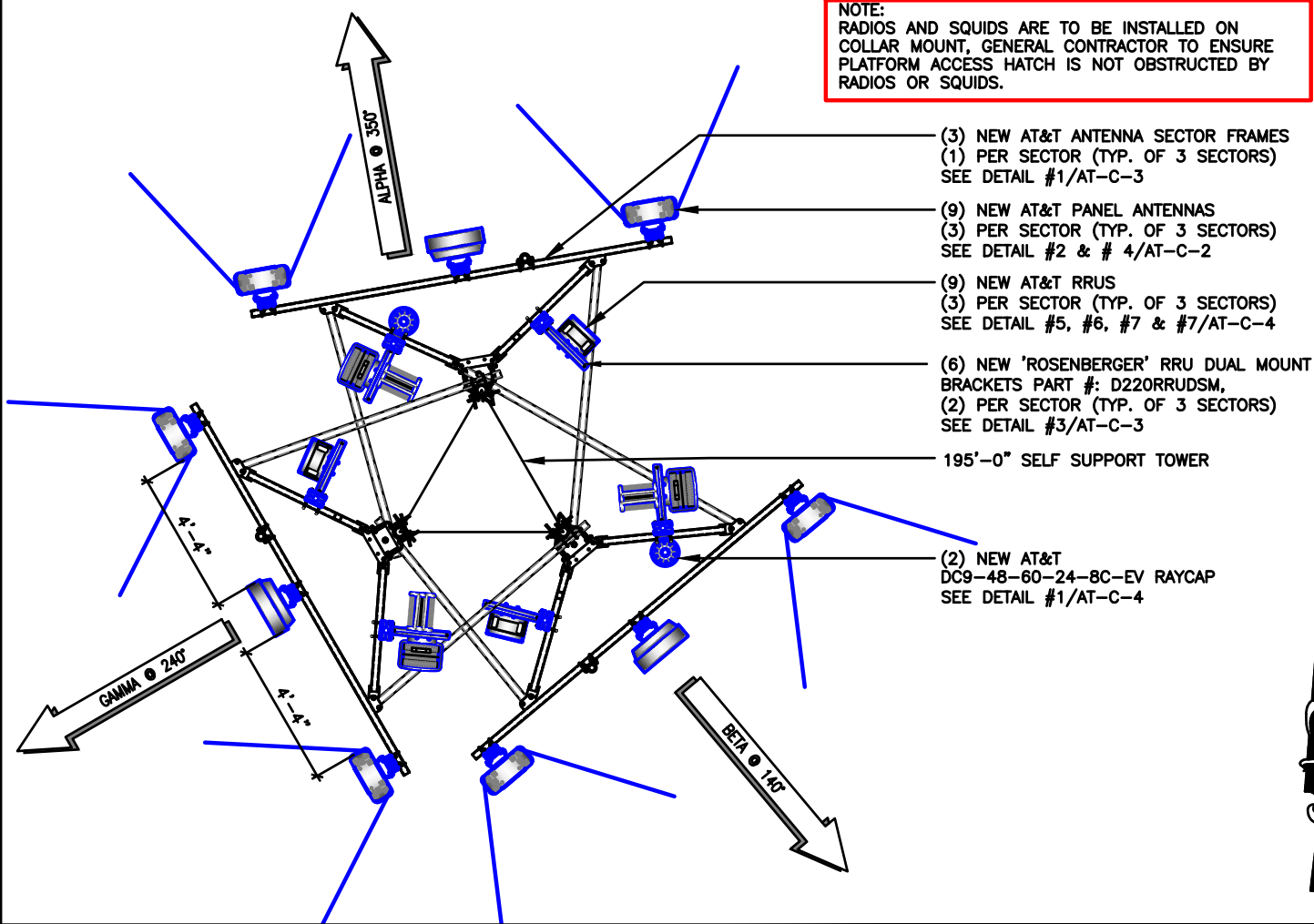
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ELEVATION

SCALE
N.T.S.

3



ANTENNA LAYOUT (SELF SUPPORT TOWER)

SCALE
N.T.S.

2

ANTENNA AND RRH SCHEDULE BASED ON AT&T RFDS DATED: 01/31/23						CABLE COUNT	
SECTOR	ANTENNA	TECH	ANTENNA H HEIGHT	AZIMUTH	RRU MODEL	QUANTITY	CABLE TYPE
ALPHA	COMMSCOPE ANTENNA NNH4-65B-R6H4	5G 850/ LTE 700 5G 1900/ LTE 1900 5G AWS/ LTE AWS	190'-0"±	350°	RRUS 4449 B5/B12 RRUS 8843 B2/B66A	2	4 CONDUCTOR (9 PR) 3/4" DC CABLE
	AIR6449 B77D	5G CBAND	190'-0"±	350°	-	1	36 FIBER (24 PR) 10MM FIBER
	-	-	-	-	-	2	DC9 SQUIDS
BETA	COMMSCOPE ANTENNA NNH4-65B-R6H4	LTE 700	190'-0"±	350°	RRUS 4478 B14		
	COMMSCOPE ANTENNA NNH4-65B-R6H4	5G 850/ LTE 700 5G 1900/ LTE 1900 5G AWS/ LTE AWS	190'-0"±	140°	RRUS 4449 B5/B12 RRUS 8843 B2/B66A		
	AIR6449 B77D	5G CBAND	190'-0"±	140°	-		
GAMMA	COMMSCOPE ANTENNA NNH4-65B-R6H4	LTE 700	190'-0"±	140°	RRUS 4478 B14		
	COMMSCOPE ANTENNA NNH4-65B-R6H4	5G 850/ LTE 700 5G 1900/ LTE 1900 5G AWS/ LTE AWS	190'-0"±	240°	RRUS 4449 B5/B12 RRUS 8843 B2/B66A		
	AIR6449 B77D	5G CBAND	190'-0"±	240°	-		
	COMMSCOPE ANTENNA NNH4-65B-R6H4	LTE 700	190'-0"±	240°	RRUS 4478 B14		

SCALE
N.T.S.

1

ANTENNA AND RRH SCHEDULE

TILLMAN
INFRASTRUCTURE



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CHECKED BY: MC

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EXP DATE: 11/30/24

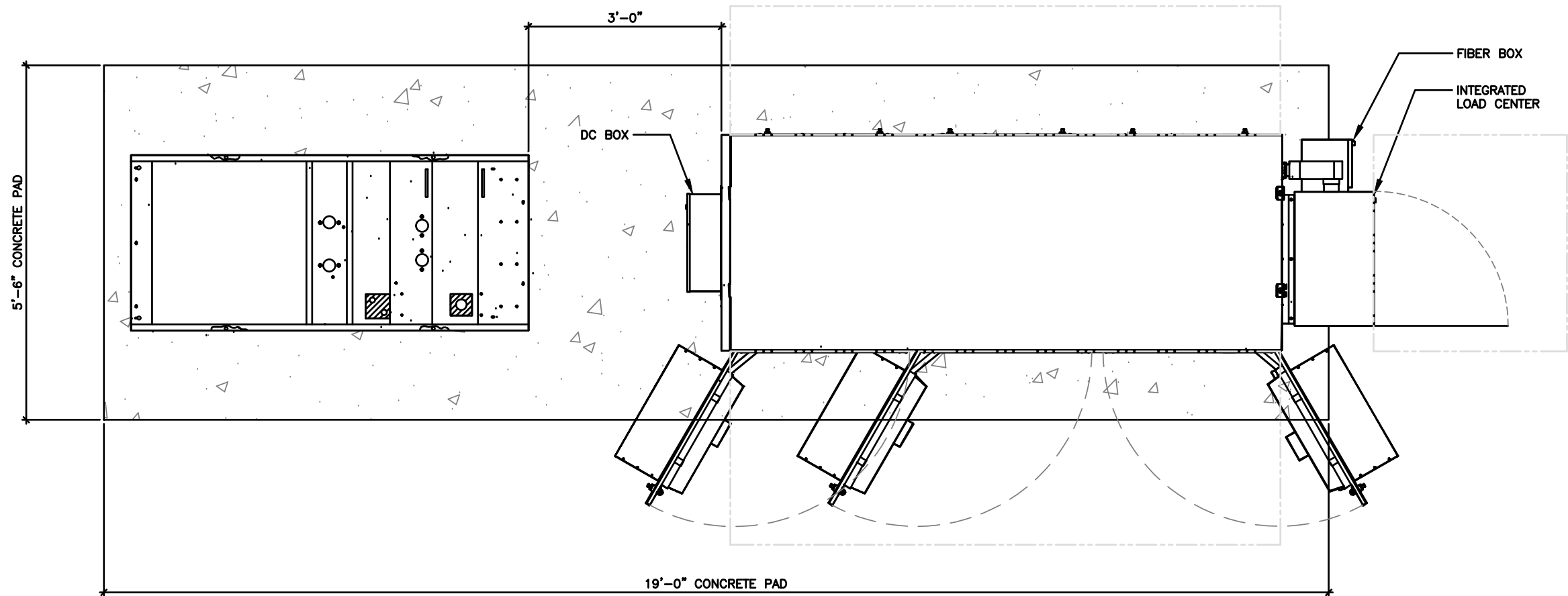
AT&T SITE# TI-OPP-23028
AT&T SITE NAME: STRITZEL RENTAL
FA # 15887152
SITE ADDRESS:
312 ELKHORN ROAD
WHITEWATER, WI 53190

SHEET TITLE
ELEVATION, ANT.
PLAN & SCHEDULE

SHEET NUMBER

AT-C-1

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AT&T EQUIPMENT LAYOUT

SCALE
N.T.S.

1

TILLMAN
INFRASTRUCTURE



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DRAWN BY: DWM
CHECKED BY: MC

REV	DATE	DESCRIPTION
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WHITEWATER, WI 53190

SHEET TITLE
WALK UP CABINET
PAD DETAILS

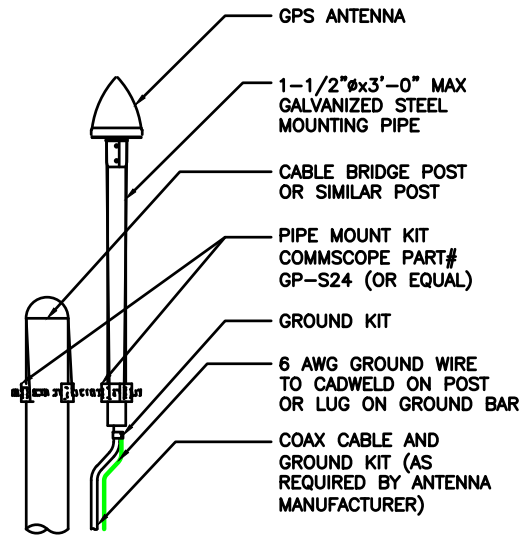
SHEET NUMBER
AT-C-2

SHEET NUMBER
AT-C-2.1



SCALE	1
N.T.S.	

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GPS ANTENNA DETAIL

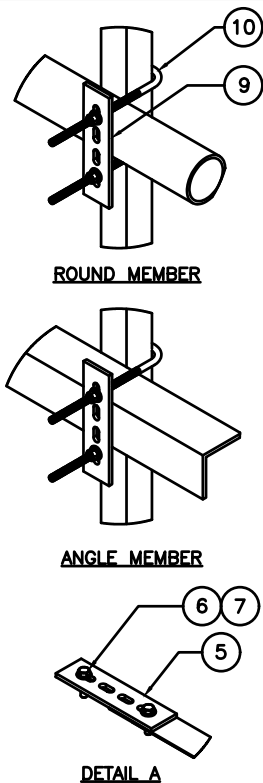
SCALE
N.T.S.

5

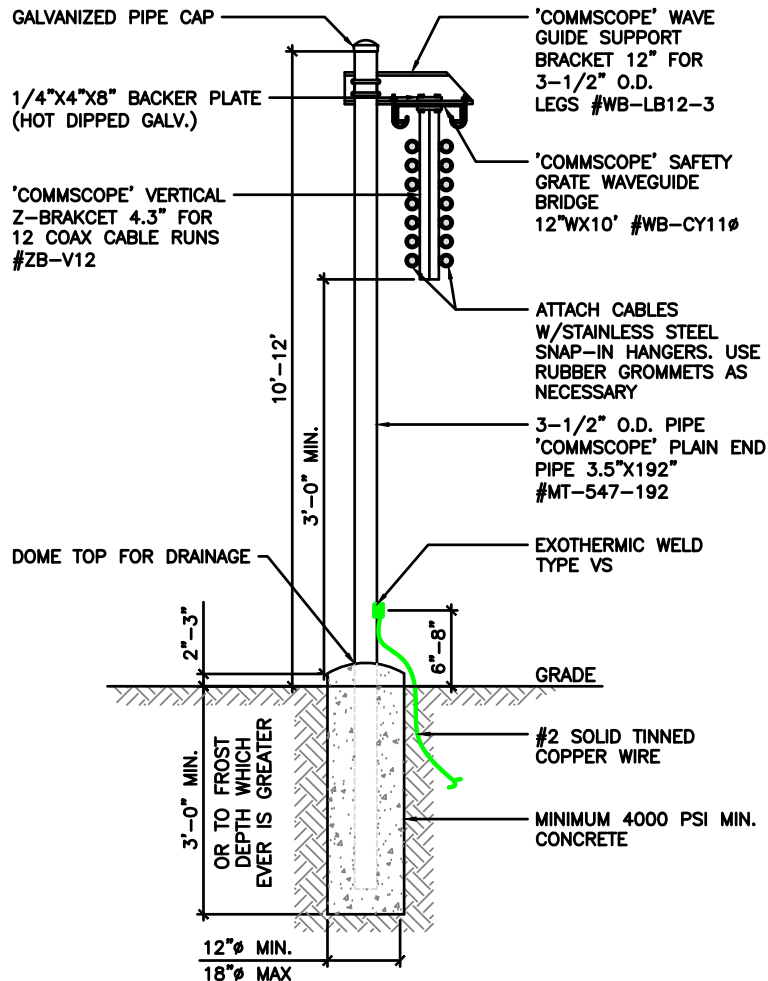
CABLE LADDER DETAIL

SCALE
N.T.S.

3



ITEM	PART NO.	DESCRIPTION	QTY.	WEIGHT
1	CL20.01	20' ANGLE SIDE RAIL	2	49.36 LBS
2	CL0620UH	HARDWARE KIT (ITEMS 3-10)	1	-
3	CL06R.01	20" LADDER RUNG	6	1.69 LBS
4	CL20H	HARDWARE KIT (ITEMS 5-7)	1	-
5	HKCLU.02	BACKING PLATE	2	0.95 LBS
6	GB-03145	3/8" X 1-1/2" GALV BOLT KIT	16	0.07 LBS
7	GW-03	3/8" GALV FLAT WASHER	4	0.01 LBS
8	HKCLU	LADDER HARDWARE KIT (ITEMS 9-10)	2	-
9	HKCLU.02	BACKING PLATE	4	0.95 LBS
10	JB-8K	8" GALV J-BOLT	8	0.36 LBS



ICE BRIDGE DETAIL

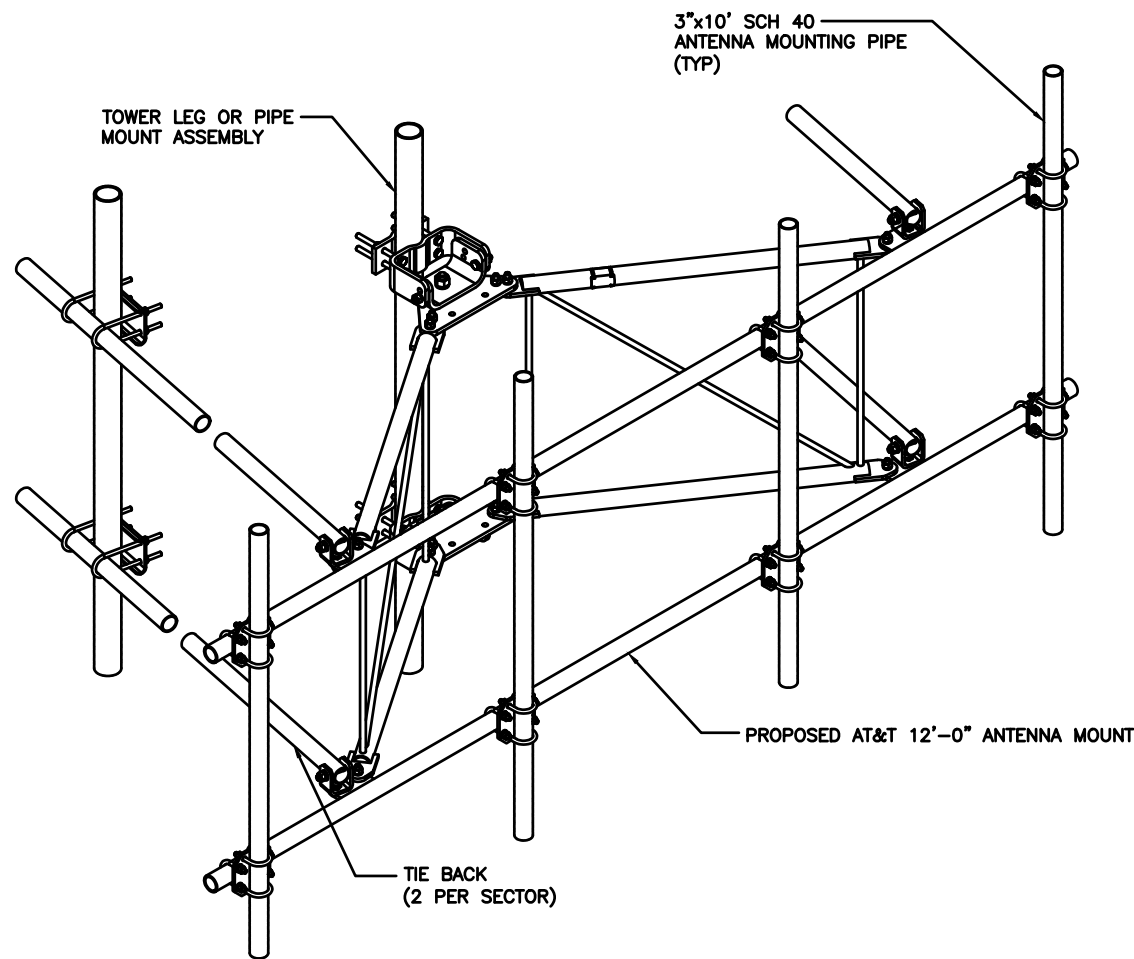
SCALE
N.T.S.

4

RRH MOUNTING DETAIL

SCALE
N.T.S.

2



ANTENNA FRAME DETAIL

SCALE
N.T.S.

1

APPROVED AT&T MOUNTS

MANUFACTURER	MODEL
ADVANCED TOWER	HEAVY WLL-3-NP
BETTER METAL	BVM-U12K-WLL-3
COMMSCOPE	SFG2CT-12-B3
CONNECT-IT WIRELESS	3-PVFM12-3-B
KENWOOD TELECOM	T1672KT12-3S
NEWAVE	ATV-312-3
ROHN PRODUCTS	(3) KY2016A12 (3) KY1995A
SABRE	C10857007C
VALMONT	VFA10-HD3T5NP

TILLMAN
INFRASTRUCTURE



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WHITEWATER, WI 53190

SHEET TITLE
CONSTRUCTION
DETAILS

SHEET NUMBER
AT-C-3

Technical drawings of the 1000 Series 3-Phase 480VAC Motor Control Center (MCC) showing front, side, and rear views with dimensions.

Front View Dimensions:

- Overall Width: 110.3"
- Overall Height: 72.1"
- Door Width (each): 40.5"
- Door Height (each): 48.5"
- Base Width: 102.4"
- Base Height: 4"
- Door Swing: 17.2"

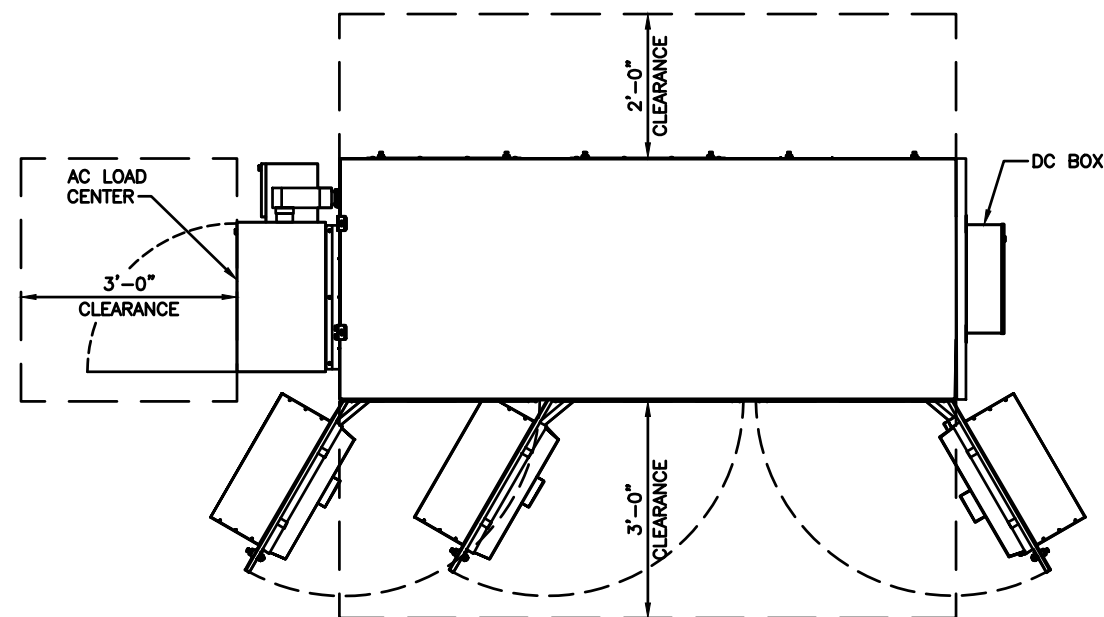
Side View Dimensions:

- Overall Width: 17.2"
- Overall Height: 72.1"
- Base Width: 102.4"
- Base Height: 4"

Rear View Dimensions:

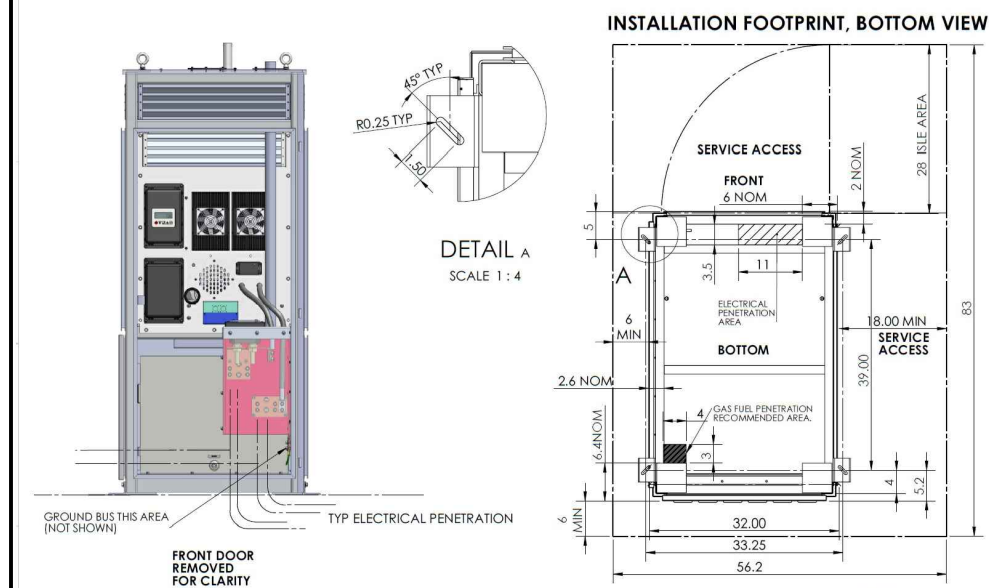
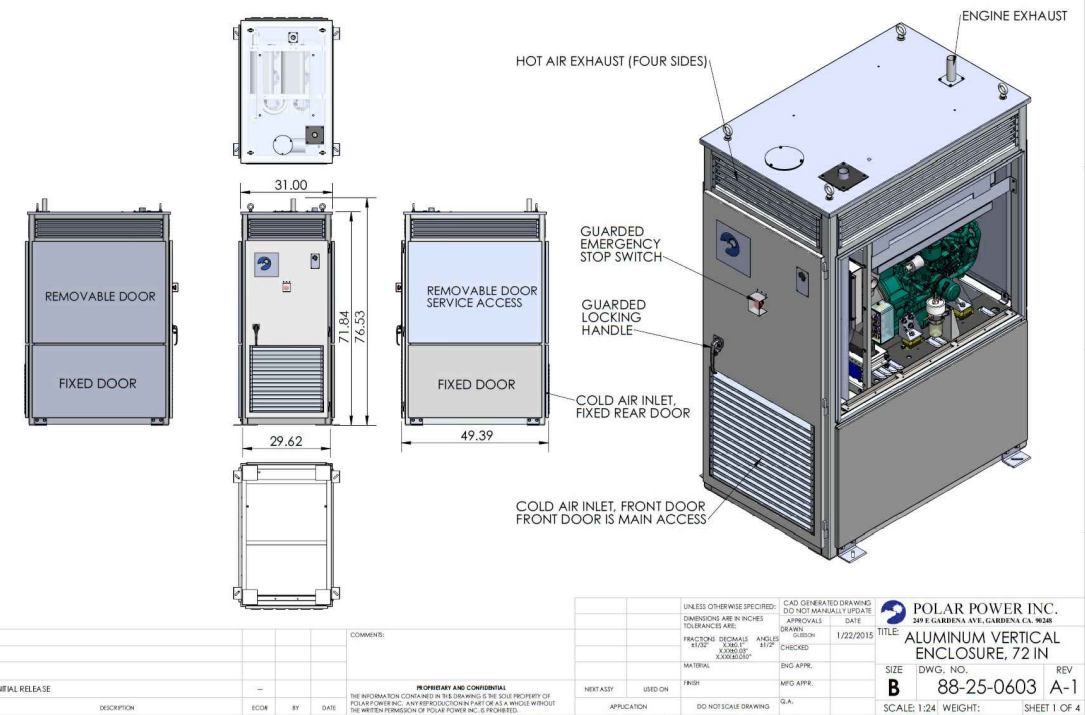
- Overall Width: 40.5"
- Overall Height: 72.1"
- Base Width: 40.5"
- Base Height: 4"

RIGHT VIEW



TOP VIEW

VENDOR:	DELTA
MODEL #:	ESOF030-HCU01
DIMENSIONS (HxWxD):	102.4" x 76.1" x 49.9"
WEIGHT:	2,270lbs
(EXCLUDING BATTERIES, POWER SUPPLY & LOAD EQUIPMENT)	



INSTALLATION FOOTPRINT, BOTTOM VIEW

DETAIL A
SCALE 1:4



POLAR POWER INC. 249 E GARDENA AVE, GARDENA CA 90248	
ALUMINUM VERTICAL ENCLOSURE, 72 IN	
DWG. NO. 88-25-0603	REV A-1
SCALE: 1/24 WEIGHT:	SHEET 1 OF 4

 POLAR POWER INC. 249 E. GARDENA AVE., GARDENA CA. 90248		
TITLE: ALUMINUM VERTICAL ENCLOSURE, 72 IN		
SIZE B	DWG. NO. 88-25-0603	REV A-1
SCALE: 1/24 WEIGHT:		SHEET 2 OF 4

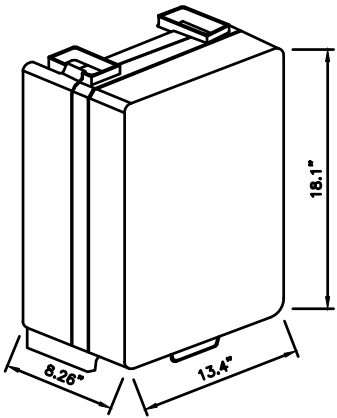
SCALE	2
N.T.S.	

20kW POLAR DC GENERATOR DETAIL

SCALE	1
N.T.S.	

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ERICSSON_RRH RRUS-4478 B14
DIMENSIONS, HXWXD: 18.1"x13.4"x8.26"
WEIGHT, WITHOUT MOUNTING: 59.4 LBS.
FREQ: 700
CONNECTORS: 4.3-10 FEMALE

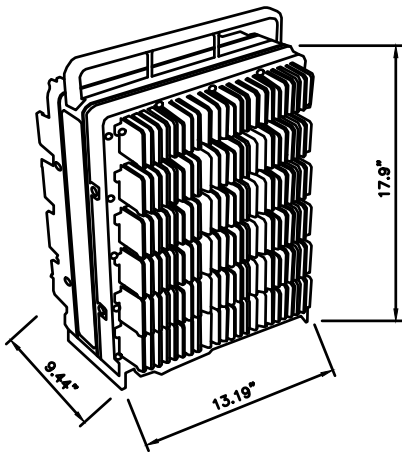


ISOMETRIC VIEW

REMOTE RADIO HEAD DETAIL

7

ERICSSON_RRH RRUS-4449 B5/B12
DIMENSIONS, HXWXD: 17.9"x13.19"x9.44"
WEIGHT, WITHOUT MOUNTING: 71 LBS.
FREQ: 700/850
CONNECTORS: 4.3-10 FEMALE



ISOMETRIC VIEW

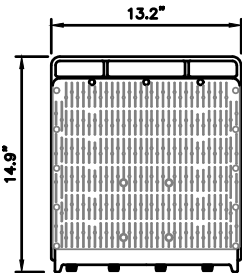
REMOTE RADIO HEAD DETAIL

6

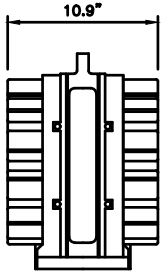
ERICSSON_RRH RRUS-8843 B2/B66
DIMENSIONS, HXWXD: 14.9"x13.2"x10.9"
WEIGHT, WITHOUT MOUNTING: 72 LBS.

NOTES:

1. GROUND EQUIPMENT AND MOUNTS PER MANUFACTURER'S RECOMMENDATIONS AND AT&T STANDARDS.
2. MOUNT EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
3. CONFIRM REQUIRED EQUIPMENT WITH LATEST RFDS.



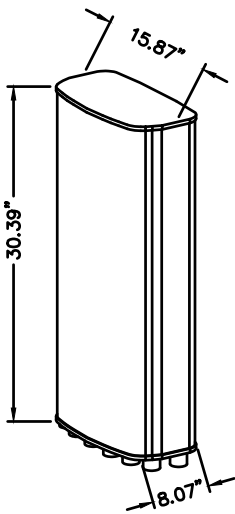
SIDE VIEW



SIDE VIEW

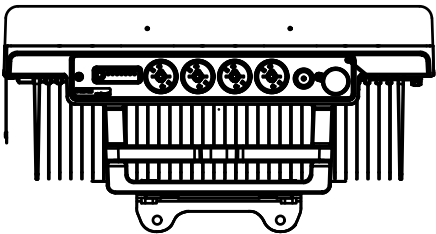
REMOTE RADIO HEAD DETAIL

5



ISOMETRIC VIEW

MANUFACTURER: ERICSSON
MODEL NO.: AIR 6449
WEIGHT: 81.6 LBS
BAND: MULTI-BAND
POLARIZATION: DUAL
FREQUENCIES: 3700-3980MHz



BOTTOM VIEW

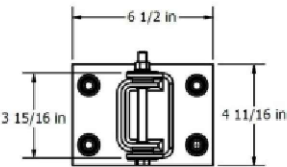
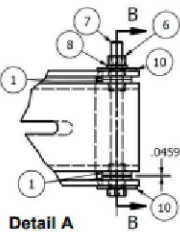
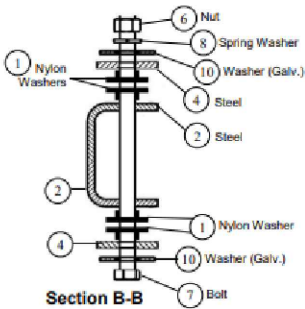
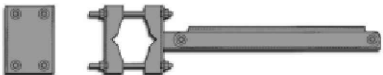
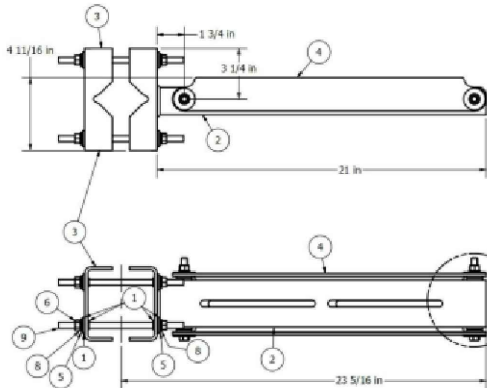
NOT USED

4

Product Installation

Rosenberger
Rosenberger Site Solutions, LLC

D220RRUDSM
DUAL RRU MOUNT



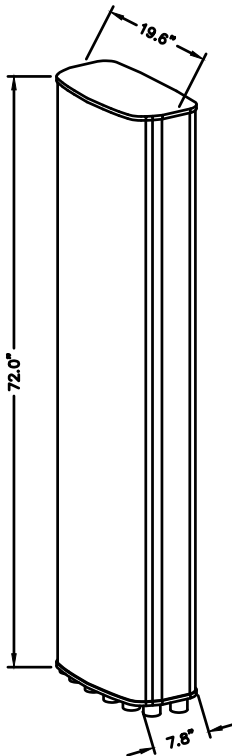
PARTS LIST			
ITEM	QUANTITY PER BRACKET	TOTAL QUANTITY REQUIRED *	DESCRIPTION
1	16	32	NYLON SHOULDER WASHER
2	1	2	MOUNTING ARM WELDMENT
3	1	2	BENT CLAMP PLATE
4	1	2	SWIVEL MOUNT PLATE
5	8	16	3/8" DIA. GALVANIZED WASHER
6	10	20	3/8" DIA. GALVANIZED NUT
7	2	4	3/8" DIA. X 5" LONG A-307 GRADE C GALVANIZED BOLT
8	10	20	3/8" DIA. GALVANIZED SPRING WASHER
9	4	8	3/8" DIA. X 8" LONG A-36 THREADED ROD
10	12	24	3/8" DIA. F436 GALVANIZED WASHER

* TWO BRACKETS ARE REQUIRED TO SUPPORT (2) RRU ASSEMBLIES

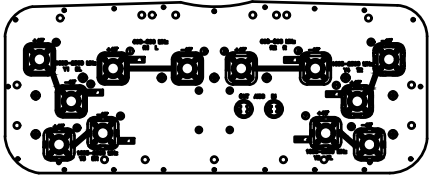
DUAL RRU MOUNTING DETAIL

3

MANUFACTURER: COMMSCOPE
MODEL NO.: NNH4-65B-R6
WEIGHT: 82 LBS
BAND: MULTI-BAND
POLARIZATION: DUAL
FREQUENCIES: 698-896MHz
1695-2360MHz
CONNECTOR: 12 X 4.3-10 DIN-F



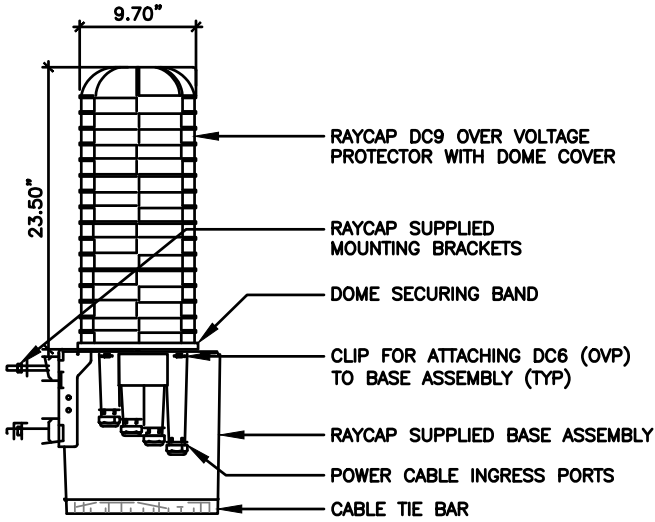
ISOMETRIC VIEW



BOTTOM VIEW

ANTENNA DETAIL

2



RAYCAP DC9-48-60-24-8C-EV (SQUID)

1

TILLMAN
INFRASTRUCTURE



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DRAWN BY: DWM
CHECKED BY: MC

REV	DATE	DESCRIPTION
A	08/29/23	PRELIMINARY CD

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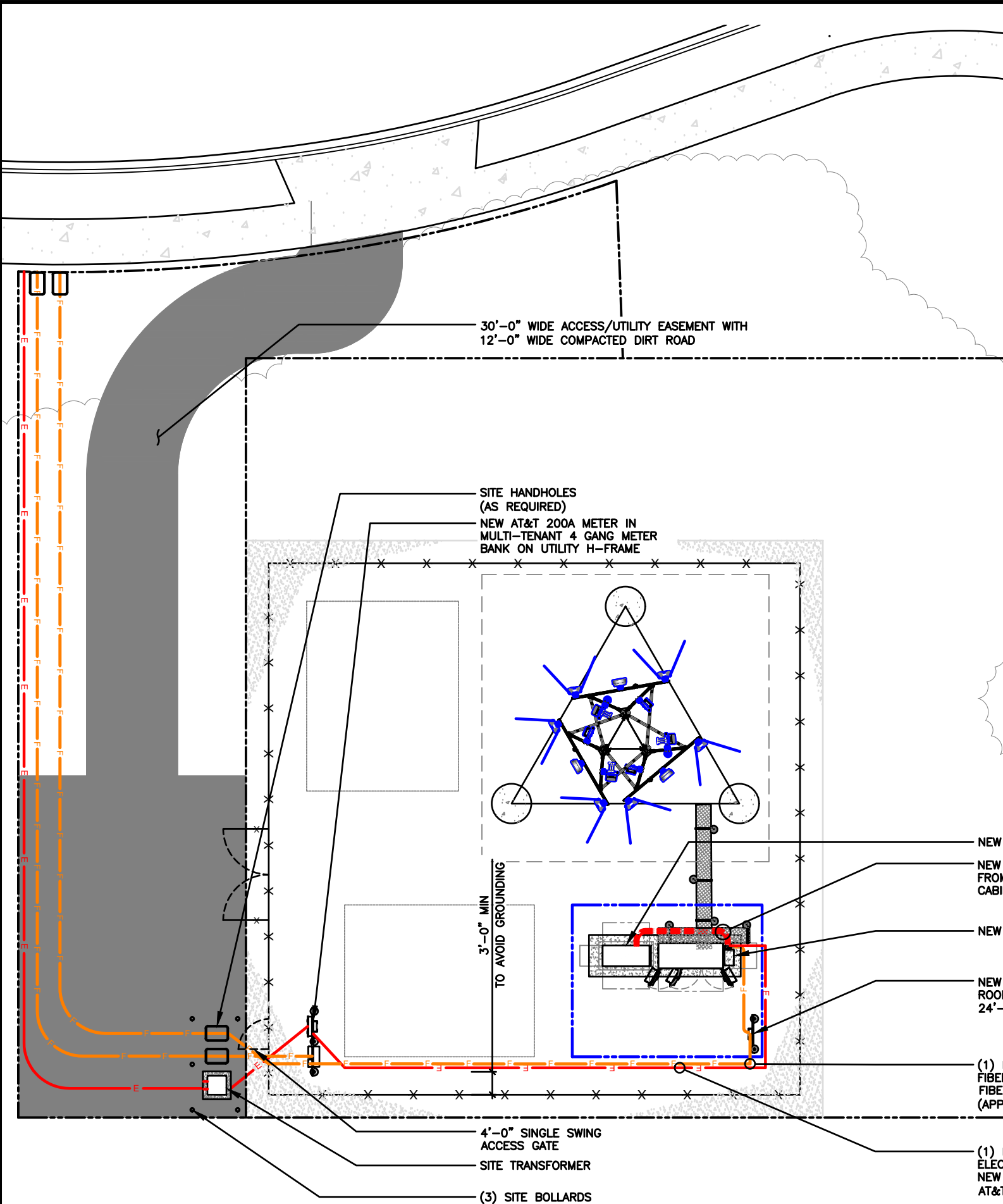
EXP DATE: 11/30/24

AT&T SITE# TI-OPP-23028
AT&T SITE NAME: STRITZEL RENTAL
FA # 15887152
SITE ADDRESS:
312 ELKHORN ROAD
WHITEWATER, WI 53190

SHEET TITLE
RRH, ANTENNA &
EQUIPMENT SPECS.

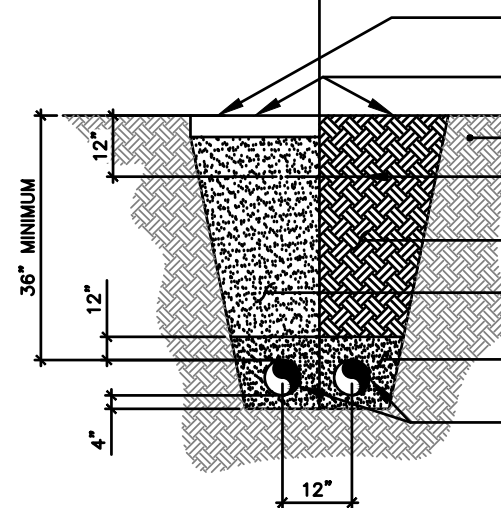
SHEET NUMBER
AT-C-4

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USE THIS SECTION
UNDER PAVEMENT OR
VEHICLE TRAFFIC AREA

USE THIS SECTION
UNDER GRASS OR
LAWN AREA



- IF ASPHALT OR CONCRETE SAW
CUT FULL DEPTH OF PAVEMENT
- RESTORE SURFACE TO
ORIGINAL CONDITION
- UNDISTURBED SOIL
- 6" WIDE UTILITY WARNING TAPE (8"-12"
BELOW GRADE) ENTIRE LENGTH OF TRENCH
- RETURN ORIGINAL MATERIAL TO TRENCH,
COMPACT TO 95% STANDARD PROCTOR
- GRADE 9 (CA-6) GRAVEL COMPACTED
TO 95% STANDARD PROCTOR
- AASHTO #10 DUST

FOR NEW ELECTRICAL, TELEPHONE, OR FIBER SERVICES-SEE
UTILITY AND SITE PLANS. PROVIDE APPROVED PULL BOXES
AS REQUIRED AND COORDINATE INSTALLATION W/ALL UTILITY
COMPANIES FOR INTERFACING AT TERMINATION POINTS.
PROVIDE FULL LENGTH ROPES (TYP.)

TYPICAL TRENCH DETAIL

SCALE
N.T.S. 2



Know what's below.
Call before you dig.

LEGEND

- PROPOSED LEASE LINE
- PROPOSED EASEMENT
- PROPOSED FENCE
- EXISTING FENCE
- EXISTING PAVEMENT
- EXISTING PROPERTY LINE

0 2' 4' 8' SCALE: 1/8" = 1'-0" (24x36)
(OR) 1/16" = 1'-0" (11x17)



TILLMAN
INFRASTRUCTURE



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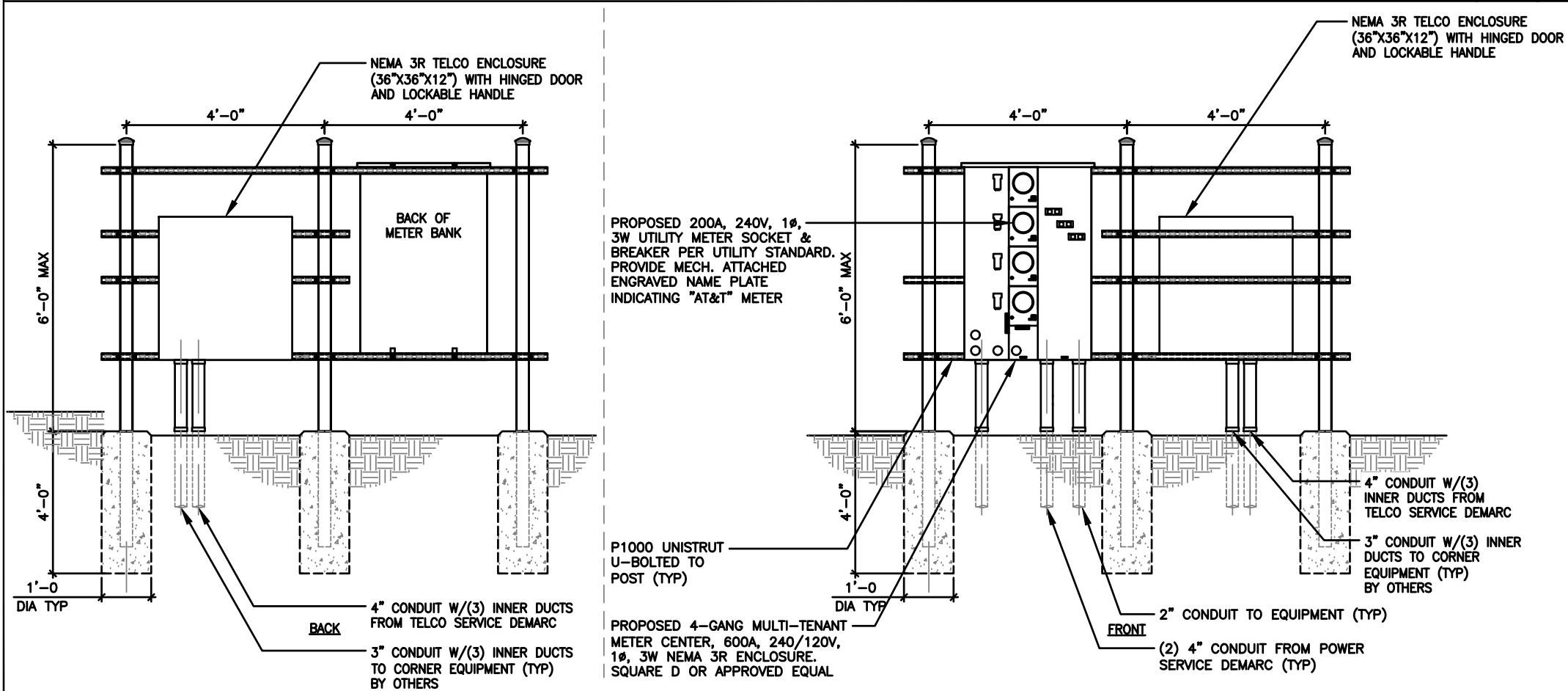
SHEET TITLE
ENLARGED
UTILITY PLAN

SHEET NUMBER
AT-E-1

1. SUBMITTAL OF BID INDICATES THAT THE CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
2. CONTRACTOR SHALL PERFORM ALL VERIFICATIONS, OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO ORDERING OF ANY EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE PROJECT MANAGER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
3. VERIFY HEIGHTS WITH PROJECT MANAGER PRIOR TO INSTALLATION.
4. THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
5. CONTRACTOR SHALL COORDINATE ALL WORK BETWEEN TRADES AND ALL OTHER SCHEDULING AND PROVISIONARY CIRCUMSTANCES SURROUNDING THE PROJECT.
6. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR COMPLETE AND FUNCTIONALLY OPERATING SYSTEMS ENERGIZED AND READY FOR USE THROUGHOUT AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
7. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. ELECTRICAL MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORIES AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION OVER THE CONSTRUCTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH ALL CURRENT APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND NBFU. ALL MATERIALS AND EQUIPMENT SHALL BE APPROVED FOR THEIR INTENDED USE AND LOCATION.
8. ALL WORK SHALL COMPLY WITH ALL APPLICABLE GOVERNING STATE, COUNTY AND CITY CODES AND OSHA, NFPA, NEC & ASHRAE REQUIREMENTS.
9. ENTIRE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE. ALL WORK, MATERIAL AND EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
10. PROPERLY SEAL ALL PENETRATIONS. PROVIDE UL LISTED FIRE-STOPS WHERE PENETRATIONS ARE MADE THROUGH FIRE-RATED ASSEMBLIES. WATER-TIGHT USING SILICONE SEALANT.
11. DELIVER ALL BROCHURES, OPERATING MANUALS, CATALOGS AND SHOP DRAWINGS TO THE PROJECT MANAGER AT JOB COMPLETION. PROVIDE MAINTENANCE MANUALS FOR MECHANICAL EQUIPMENT. AFFIX MAINTENANCE LABELS TO MECHANICAL EQUIPMENT.
12. ALL CONDUCTORS SHALL BE COPPER. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG., UNLESS OTHERWISE NOTED. CONDUCTORS SHALL BE TYPE THHW, RATED IN ACCORDANCE WITH NEC 110-14(C).
13. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM INTERRUPTING CURRENT TO WHICH THEY MAY BE SUBJECTED.
14. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE; ARTICLES 250 & 810 AND THE UTILITY COMPANY STANDARDS.
15. CONDUIT:
- A. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
- B. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
- C. LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE U.L. LISTED AND SHALL BE USED AT FINAL CONNECTIONS TO MECHANICAL EQUIPMENT & RECTIFIERS AND WHERE PERMITTED BY CODE. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL CONTAIN A FULL-SIZE GROUND CONDUCTOR.
- D. CONDUIT RUNS SHALL BE SURFACE MOUNTED ON CEILINGS OR WALLS UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL RUN PARALLEL OR PERPENDICULAR TO WALLS, FLOOR, CEILING, OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH THE PROJECT MANAGER PRIOR TO INSTALLING.
- E. PVC CONDUIT MAY BE PROVIDED ONLY WHERE SHOWN, OR IN UNDERGROUND INSTALLATIONS. PROVIDE UV-RESISTANT CONDUIT WHERE EXPOSED TO THE ATMOSPHERE. PROVIDE GROUND CONDUCTOR IN ALL PVC RUNS; EXCEPT WHERE PERMITTED BY CODE TO OMIT.
17. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS. BACKGROUND SHALL BE BLACK WITH WHITE LETTERS; EXCEPT AS REQUIRED BY CODE TO FOLLOW A DIFFERENT SCHEME.
18. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL OF POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE PROJECT MANAGER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE.
19. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION. LEGALLY DISPOSE OF ALL REMOVED, UNUSED AND EXCESS MATERIAL GENERATED BY THE WORK OF THIS CONTRACT. DELIVER ITEMS INDICATED ON THE DRAWINGS TO THE OWNER IN GOOD CONDITION. OBTAIN SIGNED RECEIPT UPON DELIVERY.
20. COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS SHALL BE PAID BY THE CONTRACTOR.
21. VERIFY ALL EXISTING CIRCUITRY PRIOR TO REMOVAL AND NEW WORK. MAINTAIN POWER TO ALL OTHER AREAS & CIRCUITS NOT SCHEDULED FOR REMOVAL.
22. RED LINED AS-BUILT PLANS SHALL BE PROVIDED TO THE CONSTRUCTION MANAGER.

METER POSITION 2 – AT&T INTEGRATED LOAD CENTER																												
LOAD				LOAD PER PHASE (VA)														LOAD PER PHASE (VA)				LOAD						
DESCRIPTION		QTY.	UNIT V.A.	PHASE		WIRE COLOR	LOADS CONTINUOUS	LOADS NON-CONTINUOUS	LOADS SUB-PANEL	WIRE SIZE	GROUNDING WIRE SIZE	TRIP	TRIP	GROUNDING WIRE SIZE	WIRE SIZE	LOADS SUB-PANEL	LOADS NON-CONTINUOUS	LOADS CONTINUOUS	WIRE COLOR	PHASE		UNIT V.A.	QTY.	DESCRIPTION				
				A	B															A	B							
1	RECTIFIER #1	1	1400	1400		BLK	X			8	(10)	40		(10)	8			X	BLK	1400		1400	1	RECTIFIER #5	2			
3		1	1400		1400	RED												RED		1400	1400	1	4					
5	RECTIFIER #2	1	1400	1400		BLK	X			8	(10)	40		(10)	8			X	BLK	1400		1400	1	RECTIFIER #6	6			
7		1	1400		1400	RED												RED		1400	1400	1	8					
9	RECTIFIER #3	1	1400	1400		BLK	X			8	(10)	40		(10)	8			X	BLK	1400		1400	1	RECTIFIER #7	10			
11		1	1400		1400	RED												RED		1400	1400	1	12					
13	RECTIFIER #4	1	1400	1400		BLK	X			8	(10)	40		(10)	8			X	BLK	1400		1400	1	RECTIFIER #8	14			
15		1	1400		1400	RED												RED		1400	1400	1	16					
17						BLK													BLK						18			
19						RED	X			12	12	20							RED						20			
21	GFCI RECEPTACLES	1	180	360		BLK	X			12	(12)	20							BLK						22			
23	OPTIONAL FIBER BOX RECEPTACLE	1	180		180	RED	X			12	12	20							RED						24			
25	BATTERY CHARGER	1	240	240		BLK	X			12	12	20							BLK						26			
27	SPARE					RED	X			12	12	20							RED						28			
29	SPARE					BLK	X			12	12	20							BLK						30			
			SUBTOTAL CONTINUOUS	6200	5780															5,600	5,600	SUBTOTAL CONTINUOUS	TOTAL AMPS CONTINUOUS x 1.25		28975			
			SUBTOTAL NON-CONTINUOUS	-	-															-	-	SUBTOTAL NON-CONTINUOUS	TOTAL AMPS NON-CONTINUOUS		-			
			SUBTOTAL SUB-PANEL	-	-															-	-	SUBTOTAL SUB-PANEL						
PANEL DESIGNATION: ELECTRICAL PANEL (ITEM 2)																												
MAIN LUGS: N/A		MAIN BREAKER: 200 AMP												BRANCH BREAKER TYPE: SIEMENS – BL												TOTAL KVA		28.97
VOLTAGE: 120/240		CYCLE: 60		PHASE: 1		WIRES: 3		MAIN COPPER BUS: 200 AMPS				NEUTRAL: 200 AMPS								TOTAL AMPS		120.72						

AT&T P - B PANEL SCHEDULE



UTILITY FRAME DETAIL

ELECTRICAL NOTES

SCALE
N.T.S.

4

SCALE
N.T.S.

1

TILLMAN
INFRASTRUCTURE



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FA # 15887152
SITE ADDRESS:
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SHEET TITLE
ELECTRICAL SCHD.,
DIA & NOTES

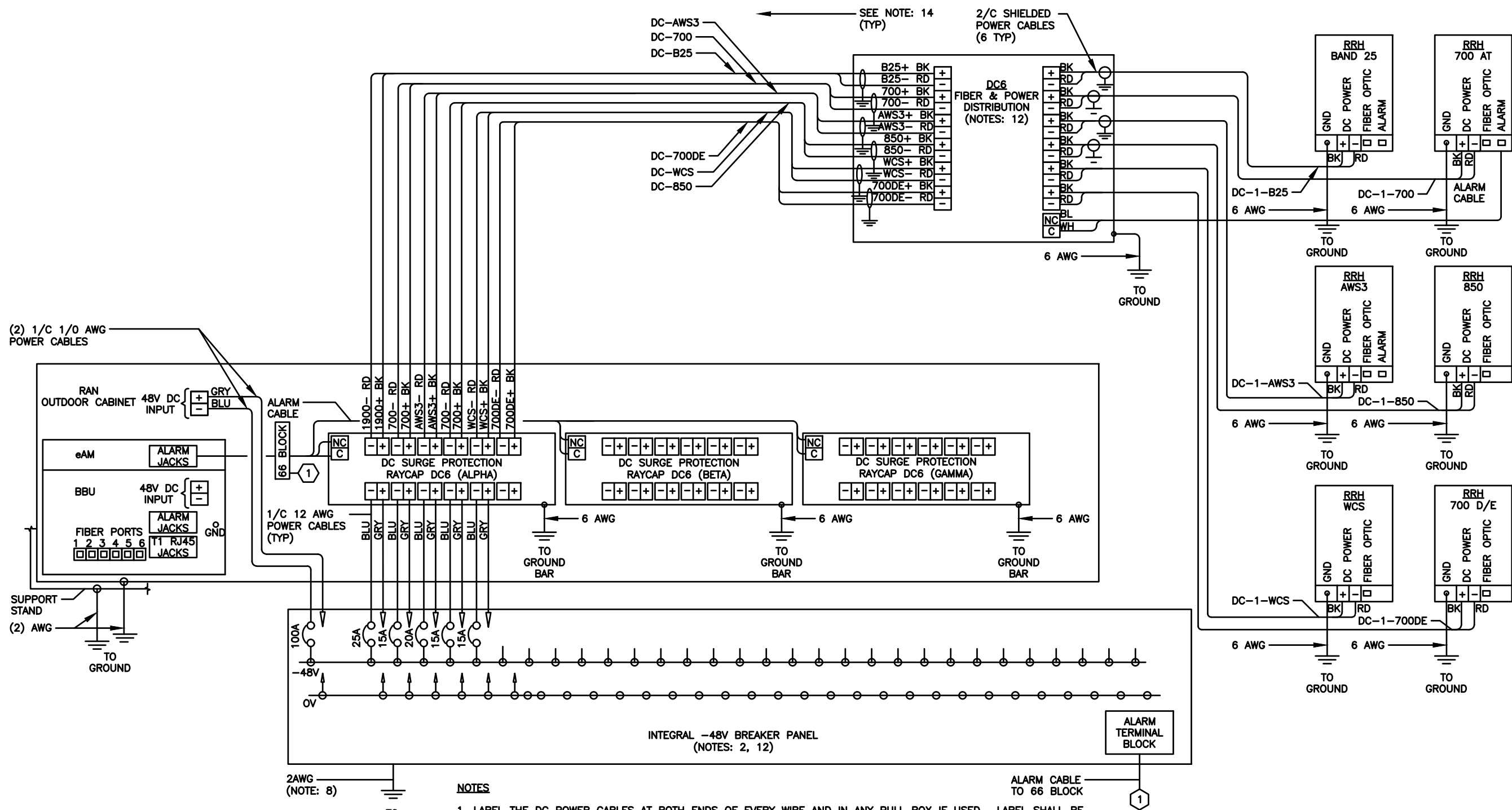
SHEET NUMBER

AT-E-2

SCALE	1
N.T.S.	



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- NOTES**
1. LABEL THE DC POWER CABLES AT BOTH ENDS OF EVERY WIRE AND IN ANY PULL BOX IF USED. LABEL SHALL BE DURABLE, SELF ADHESIVE, WRAPPED LONGITUDINALLY ALONG THE CABLE AND STATE THE SECTOR, FREQUENCY BAND AND POLARITY; I.E. "A-AWS+".
 2. INSTALL ON IN AUXILIARY EQUIPMENT CABINET.
 3. CABLE TERMINALS FOR +24V INPUT FEED A, FEED B AND REFERENCE GROUND SHALL BE 2-HOLE: 3/8" ON 1" CENTER.
 4. INSTALL CABLE TERMINALS FOR FEED A AND FEED B RETURN BACK-TO-BACK ON OPPOSITE SIDES OF PAD USING 1-HOLE 3/8" TERMINALS.
 5. CABLE TERMINALS FOR CHASSIS GROUND SHALL BE 2-HOLE, 1/4" ON 5/8" CENTER.
 6. WHEN DISTRIBUTION BOX IS NOT USED, INSTALL 3 RUNS OF (2) 2/C CABLES IN CONDUIT, 1 EACH FROM DC SURGE SHELF TO DC6s.
 7. A JUNCTION BOX IS REQUIRED WHEN FIBER OPTIC CABLES ARE INSTALLED IN CONDUIT AS SCOPED BY MARKET.
 8. CONVERTER REFERENCE GROUND IS NOT REQUIRED WHEN CONVERTER AND 24V DC POWER PLANT ARE ON THE SAME RACK OR ENCLOSURE.
 9. THE BARE GROUND WIRE OF EACH MULTI-CONDUCTOR CABLE AND DRAIN WIRE WHEN A SHIELDED CABLE IS USED, SHALL BE CONNECTED TO THE EQUIPMENT CABINET GROUND BAR.
 10. SEE ALARM BLOCK ASSIGNMENT DETAIL FOR ALARM CABLE CONNECTIONS.
 11. PROVIDE A JUNCTION BOX, AS SCOPED BY MARKET, TO COIL EXCESS DC POWER AND OPTICAL FIBER CABLES (FIBER CALES NOT SHOWN FOR CLARITY)
 12. NOTED EQUIPMENT MAY BE COMMON TO LTE AND UMTS SYSTEMS.
 13. CABLE GROUND WIRE AND SHIELD DRAIN WIRE TO BE LEFT UN-TERMINATED AT RRH.
 14. WHEN AN RRH IS USED INSTEAD OF AN AWS RRH CABLE, LABELS SHOULD REFLECT CORRECT FREQUENCY BAND.

TYPICAL PER SECTOR

SCALE
N.T.S. 1

TILLMAN
INFRASTRUCTURE



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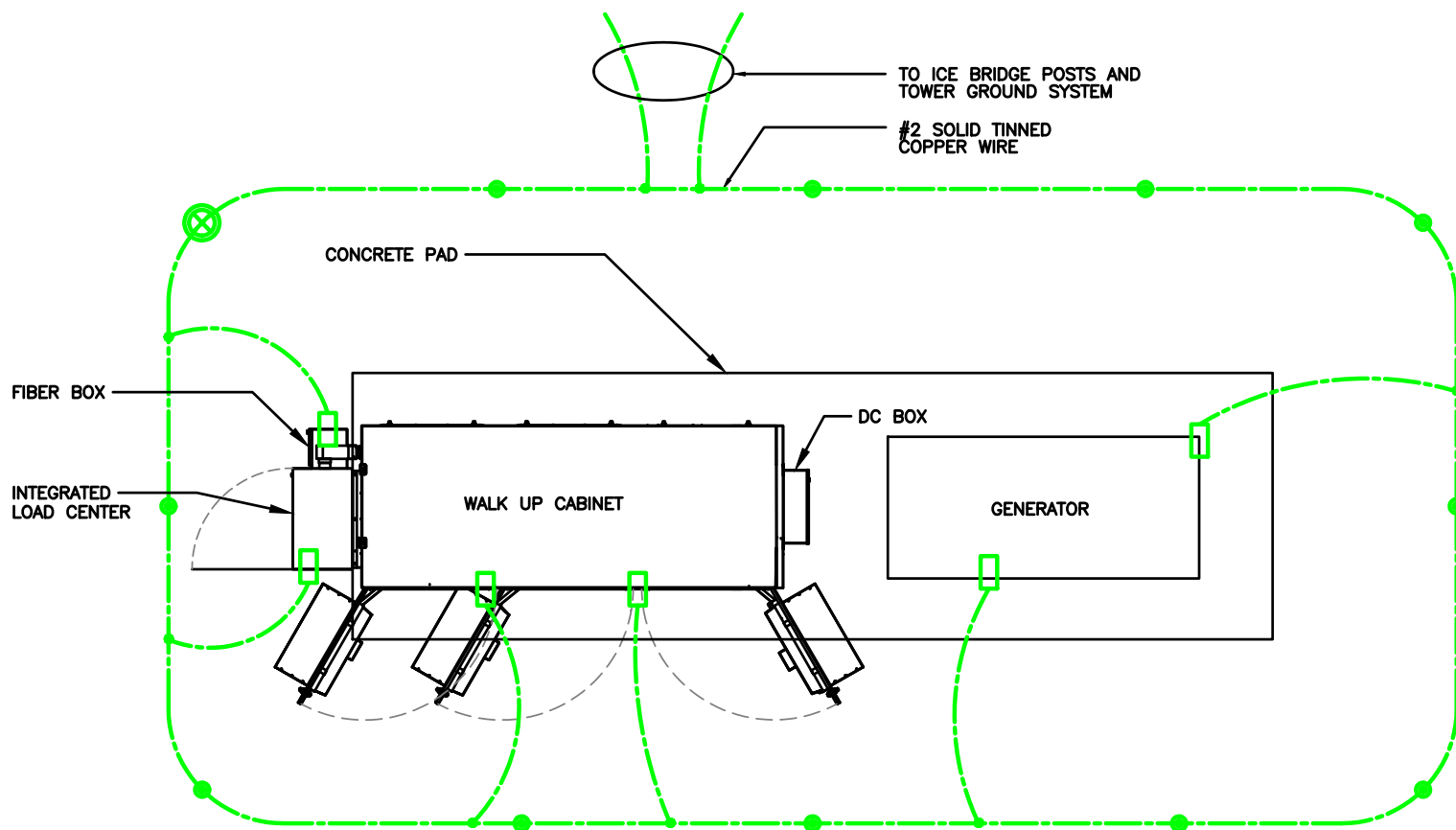
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SHEET TITLE
DC WIRING
DIAGRAM

SHEET NUMBER
AT-E-4

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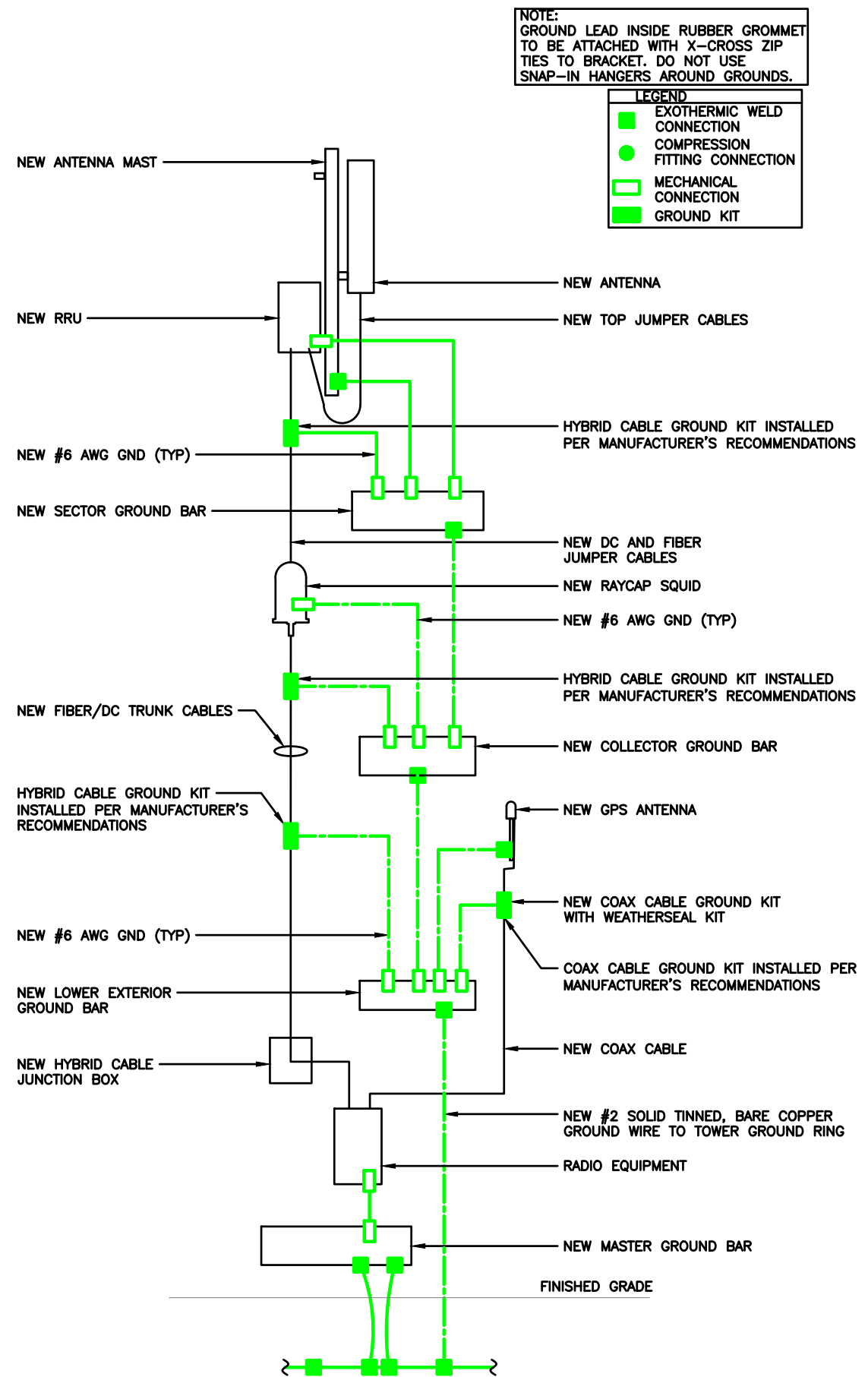
Know what's below.
Call before you dig.

GROUNDING PLAN

SCALE
N.T.S.

2

RISER DIAGRAM



SCALE
N.T.S.

1

TILLMAN
INFRASTRUCTURE



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SHEET TITLE
GROUNDING PLAN
& RISER DIAGRAM

SHEET NUMBER

AT-G-1

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GROUNDING NOTES:

- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
- ALL WIRES SHALL BE AWG THHN/THWN COPPER UNLESS NOTED OTHERWISE.
- GROUNDING CONNECTIONS TO GROUND RODS, GROUND RING WIRE, TOWER BASE AND FENCE POSTS SHALL BE EXOTHERMIC ("CADWELDS") UNLESS NOTED OTHERWISE. CLEAN SURFACES TO SHINY METAL. WHERE GROUND WIRES ARE CADWELDED TO GALVANIZED SURFACES, SPRAY CADWELD WITH GALVANIZING PAINT.
- GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO-HOLE BRASS MECHANICAL CONNECTORS WITH STAINLESS STEEL HARDWARE (INCLUDING SCREW SET) CLEAN GROUND BAR TO SHINY METAL. AFTER MECHANICAL CONNECTION, TREAT WITH PROTECTIVE ANTIOXIDANT COATING.
- GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS.
- ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.
- INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE ("CADWELDS") TO ANTENNA MOUNTS AND GROUND RING. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LUGS.
- THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS POSITION ACCORDING TO GROUNDING PLAN. THE GROUND RODS SHALL BE 5/8"x10'-0" COPPER CLAD STEEL INTERCONNECTED WITH #2 BARE TINNED COPPER WIRE BURIED 36" BELOW GRADE. BURY GROUND RODS A MAXIMUM OF 15' APART, AND A MINIMUM OF 8' APART.
- IF ROCK IS ENCOUNTERED GROUND RODS SHALL BE PLACED AT AN OBLIQUE ANGLE NOT TO EXCEED 45°.
- EXOTHERMIC WELDS SHALL BE MADE IN ACCORDANCE WITH ERICO PRODUCTS BULLETIN A-AT.
- CONSTRUCTION OF GROUND RING AND CONNECTIONS TO EXISTING GROUND RING SYSTEM SHALL BE DOCUMENTED WITH PHOTOGRAPHS PRIOR TO BACKFILLING SITE. PROVIDE PHOTOS TO THE VERIZON WIRELESS CONSTRUCTION MANAGER.
- ALL GROUND LEADS EXCEPT THOSE TO THE EQUIPMENT ARE TO BE #2 BARE TINNED COPPER WIRE. ALL EXTERIOR GROUND BARS TINNED COPPER.
- PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LUBE INC.). PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUAL.
- ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRM TO TEST AND VERIFY THAT IMPEDANCE DOES NOT EXCEED FIVE OHMS TO GROUND BY MEANS OF "FALL OF POTENTIAL TEST". TEST SHALL BE WITNESSED BY A METROPCS REPRESENTATIVE, AND RECORDED ON THE "GROUND RESISTANCE TEST" FORM.
- WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, INSTALL WIRE IN 3/4" PVC SLEEVE, FROM 1' BELOW GRADE AND SEAL TOP WITH SILICONE MATERIAL.
- PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.
- ANY SITE WHERE THE EQUIPMENT (BTS, CABLE BRIDGE, PPC, GENERATOR, ETC.) IS LOCATED WITHIN 6 FEET OF METAL FENCING, THE GROUND RING SHALL BE BONDED TO THE NEAREST FENCE POST USING (3) RUNS OF #2 BARE TINNED COPPER WIRE.

GROUNDING NOTES

SCALE
N.T.S.

5

CABLE COLOR CODING NOTES:

- SECTOR ORIENTATION/AZIMUTH WILL VARY FROM REGION AND IS SITE SPECIFIC. REFER TO RF REPORT FOR EACH SITE TO DETERMINE THE ANTENNA LOCATION AND FUNCTION OF EACH TOWER SECTOR FACE.
- THE ANTENNA SYSTEM CABLES SHALL BE LABELED WITH VINYL TAPE EXCEPT IN LOCATIONS WHERE ENVIRONMENTAL CONDITIONS CAUSE PHYSICAL DAMAGE, THEN PHYSICAL TAGS ARE PREFERRED.
- THE STANDARD IS BASED ON EIGHT COLORED TAPES - RED, BLUE, GREEN, YELLOW, ORANGE, BROWN, WHITE & VIOLET. THESE TAPES MUST BE 3/4" WIDE & UV RESISTANT SUCH AS SCOTCH 35 VINYL ELECTRICAL COLOR CODING TAPE AND SHOULD BE READILY AVAILABLE TO THE ELECTRICIAN OR SUBCONTRACTOR ON SITE.
- USING COLOR BANDS ON THE CABLES, MARK ALL RF CABLES BY SECTOR AND NUMBER AS SHOWN ON "CABLE MARKING COLOR CONVENTION TABLE".
- WHEN AN EXISTING COAXIAL LINE THAT IS INTENDED TO BE A SHARED LINE BETWEEN GSM/3G AND IS-136 TDMA IS ENCOUNTERED, THE SUBCONTRACTOR SHALL REMOVE THE EXISTING COLOR CODING SCHEME AND REPLACE IT WITH THE COLOR CODING AND TAGGING STANDARD THAT IS OUTLINED IN THE CURRENT VERSION OF ND-00027. IN THE ABSENCE OF AN EXISTING COLOR CODING TAGGING SCHEME, OR WHEN INSTALLING PROPOSED COAXIAL CABLES, THIS GUIDELINE SHALL BE IMPLEMENTED AT THAT SITE REGARDLESS OF TECHNOLOGY.
- ALL COLOR CODE TAPE SHALL BE 3M-35 AND SHALL BE A MINIMUM OF 3" WIDE AND SHALL HAVE A MINIMUM OF 3/4" OF SPACE IN BETWEEN EACH COLOR.
- ALL COLOR BANDS INSTALLED AT THE TOP OF TOWER SHALL BE A MINIMUM OF 3" WIDE AND SHALL HAVE A MINIMUM OF 3/4" OF SPACE IN BETWEEN EACH COLOR.
- ALL COLOR CODES SHALL BE INSTALLED AS TO ALIGN NEATLY WITH ONE ANOTHER FROM SIDE TO SIDE.
- IF EXISTING CABLES AT THE SITE ALREADY HAVE A COLOR CODING SCHEME AND THEY ARE NOT INTENDED TO BE REUSED OR SHARED WITH THE GSM TECHNOLOGY, THE EXISTING COLOR CODING SCHEME SHALL REMAIN UNTOUCHED.

CABLE MARKING TAGS:

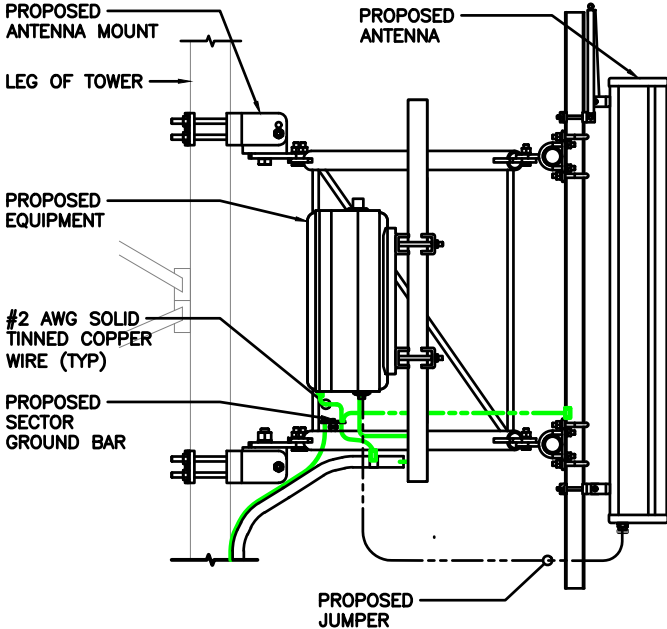
WHEN USING THE ALTERNATIVE LABELING METHOD, EACH RF CABLE SHALL BE IDENTIFIED WITH A METAL ID TAG MADE OF STAINLESS STEEL OR BRASS. THE TAG SHALL BE 1-1/2" IN DIAMETER WITH 1/4" STAMPED LETTERS AND NUMBERS INDICATING THE SECTOR, ANTENNA POSITION AND CABLE NUMBER. ID MARKING LOCATIONS SHOULD BE AS PER "CABLE MARKING LOCATIONS TABLE". THE TAG SHOULD BE ATTACHED WITH CORROSION PROOF WIRE AROUND THE CABLE AT THE SAME LOCATION AS DEFINED ABOVE. THE TAG SHOULD BE LABELED AS SHOWN ON THE "GSM AND UMTS LINE TAG" DETAIL.

CABLE MARKING LOCATIONS TABLE	
NO.	LOCATIONS
①	EACH JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS.
②	EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS AT THE TOP JUMPER CONNECTION AND WITH (1) SET OF 3/4" WIDE COLOR BANDS PRIOR TO ENTERING THE BTS OR SHELTER.
③	CABLE ENTRY PORT ON THE INTERIOR OF SHELTER.
④	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.
⑤	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.

CABLE COLOR CODING NOTES

SCALE
N.T.S.

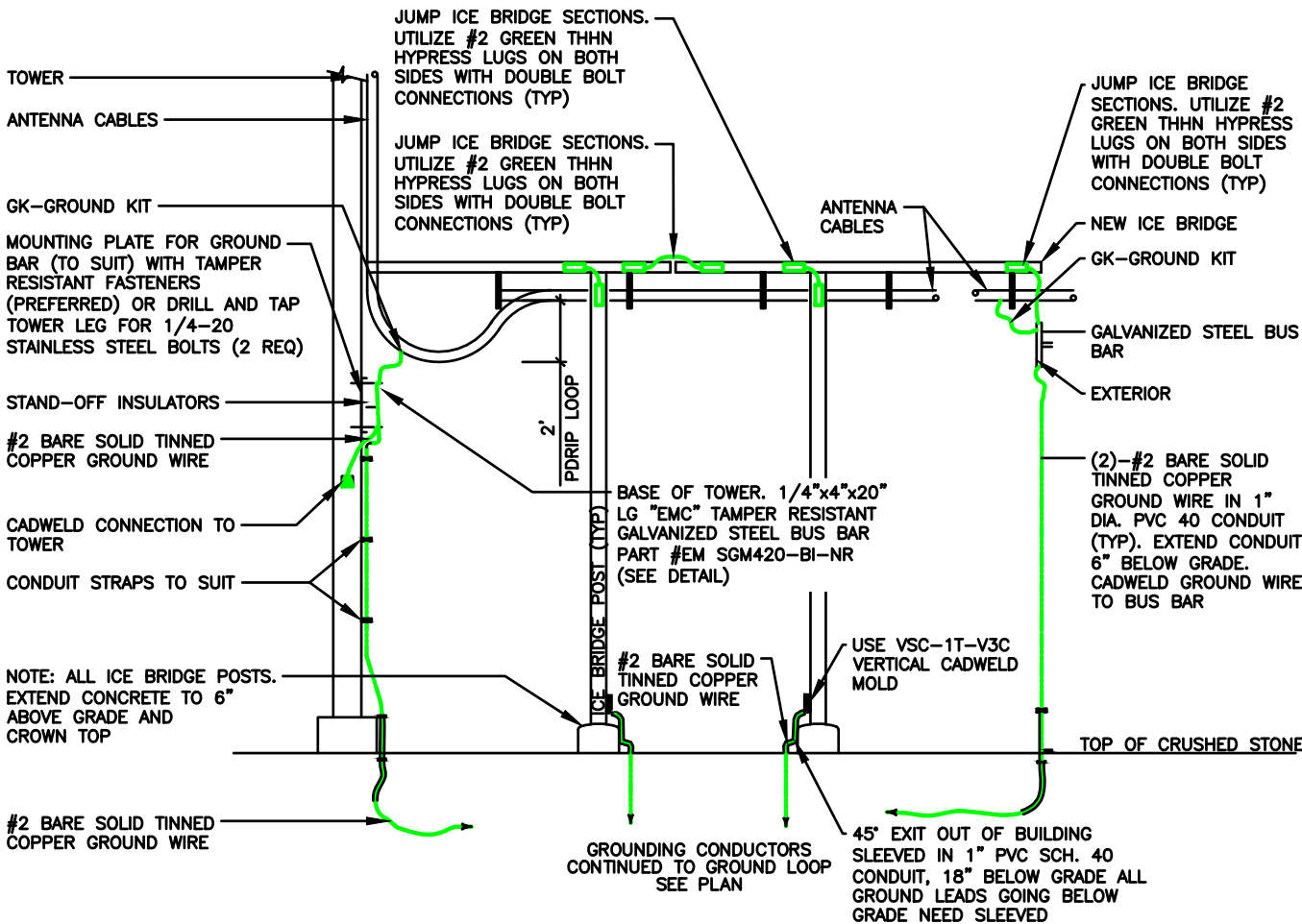
4



ANTENNA & CABLE GROUNDING

SCALE
N.T.S.

3



COAXIAL GROUNDING AT ICE BRIDGE

SCALE
N.T.S.

1

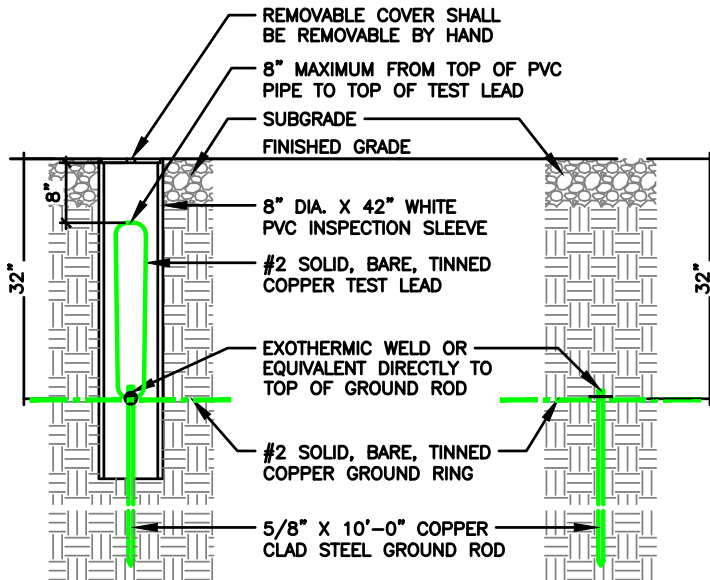
NOTE:
SEE RESISTIVITY REPORT FOR
VERIFICATION AS AVAILABLE

NOTE:
GROUND RODS MAY BE COPPER
CLAD STEEL OR SOLID COPPER

NOTE:
GROUND RODS SHALL HAVE A
RECOMMENDED SPACING TWICE
THE LENGTH OF THE ROD

NOTE:
A LARGER CONDUCTOR SHALL BE REQUIRED
IN AREAS HIGHLY PRONE TO LIGHTNING
AND/OR AREAS W/HIGHLY ACIDIC SOIL

NOTE:
GROUND RODS INSTALLED WITHIN CLOSE
PROXIMITY TO TOWER OR WHEN SOIL IS AT OR
BELOW 2,000 OHM-CM, SHALL BE GALVANIZED
TO PREVENT GALVANIC CORROSION OF TOWER



GROUND WELL, ROD, AND TEST WELL DETAIL

SCALE
N.T.S.

2

TILLMAN
INFRASTRUCTURE



LCC
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DRAWN BY: DWM

CHECKED BY: MC

REV	DATE	DESCRIPTION
A	08/29/23	PRELIMINARY CD

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF WISCONSIN

EXP DATE: 11/30/24

AT&T SITE# TI-OPP-23028
AT&T SITE NAME: STRITZEL RENTAL
FA # 15887152
SITE ADDRESS:
312 ELKHORN ROAD
WHITEWATER, WI 53190

SHEET TITLE
GROUNDING
DETAILS & NOTES

SHEET NUMBER

AT-G-2