

TILLMAN INFRASTRUCTURE

TILLMAN OPP NUMBER: TI-OPP-29018
SITE NAME: WHITEWATER
SITE ADDRESS: 1002 S JANESVILLE STREET
WHITEWATER, WI 53190
PARCEL ID: WUP 00341
FA#: 11655718

CONSTRUCTION APPROVAL	
TILLMAN SITE ACQUISITION MANAGER: _____	DATE: _____
TILLMAN CONSTRUCTION MANAGER: _____	DATE: _____
RF PROJECT MANAGER: _____	DATE: _____
PROJECT MANAGER: _____	DATE: _____



WESTCHESTER SERVICES LLC
 WI FIRM 4897-11
 604 FOX GLEN
 BARRINGTON, IL 60010
 PHONE: 847-277-0070
 EMAIL: AE@Westchesterservices.com

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

DRAWN BY:	DWM
CHECKED BY:	MC

REV	DATE	DESCRIPTION
A	03/04/24	PRELIMINARY CD
B	03/06/24	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

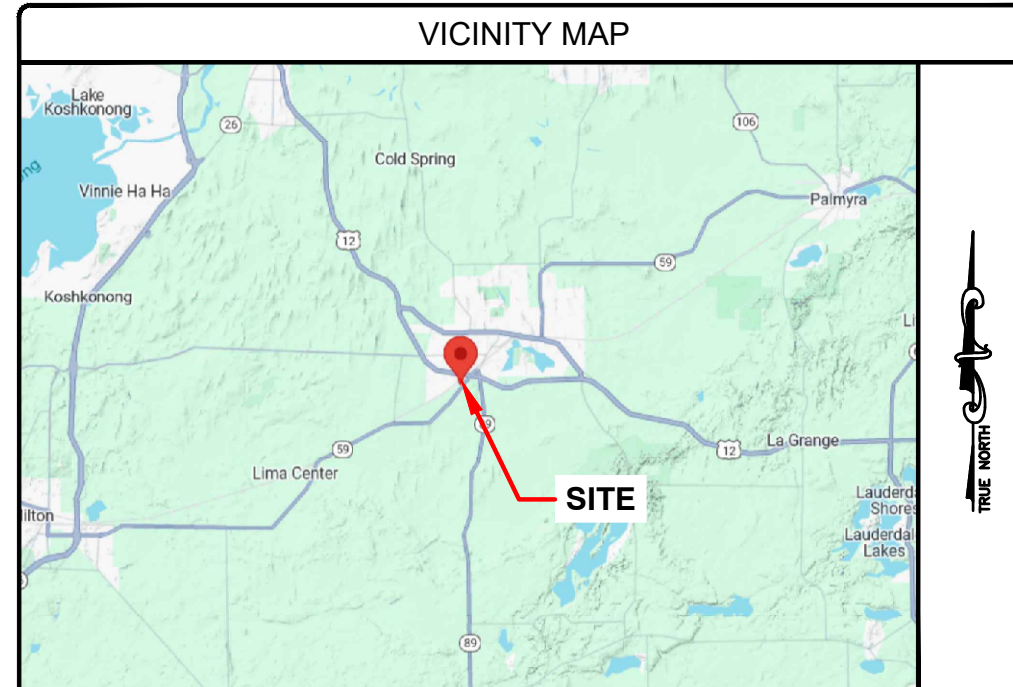
TILLMAN OPP# TI-OPP-29018
SITE NAME: WHITEWATER
SITE ADDRESS:
1002 S JANESVILLE STREET
WHITEWATER, WI 53190
FA#: 11655718
FAA STUDY #: 2024-AGL-2388OE

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

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.

SITE INFORMATION	
SITE ADDRESS:	1002 S JANESVILLE STREET WHITEWATER, WI 53190
LATITUDE (NAD 83):	42°49'08.8617" N (42.81912825)
LONGITUDE (NADV 88):	88°45'13.7991" W (-88.75383307)
GROUND ELEVATION:	850.37' (AMSL)
FAA STUDY #:	2024-AGL-2388-OE
JURISDICTION:	THE CITY OF WHITEWATER
JURISDICTION CONTACT:	GREG NOLL 312 W WHITEWATER STREET, WHITEWATER, WI 53190 920-675-9062 municipalzoningandinspection@gmail.com
PARCEL/MAP NUMBER:	WUP 00341
LANDLORD OWNER:	HATCHETT ENTERPRISES LLC 262-215-7990
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 PHONE NUMBER: 800-714-7777
FIBER SUPPLIER:	TBD PHONE NUMBER: TBD



DRIVING DIRECTIONS

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.

<ul style="list-style-type: none"> 2023 WISCONSIN STATE BUILDING CODE 2023 WISCONSIN STATE ELECTRICAL CODE 2023 WISCONSIN STATE MECHANICAL CODE 2023 WISCONSIN STATE 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 	<ul style="list-style-type: none"> TIA 607 INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEERING 81 IEEE C2 NATIONAL ELECTRIC SAFETY CODE LATEST EDITION TELECORDIA GR-1275
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DRAWING INDEX

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B-1	SITE SURVEY
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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
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.

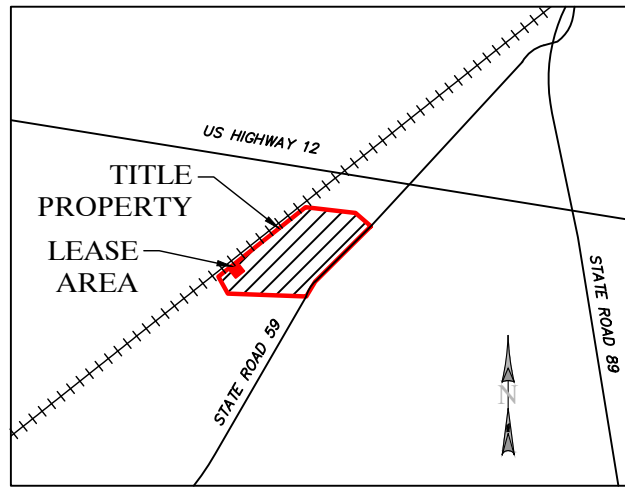
SCOPE OF WORK

THIS PROJECT CONSISTS OF :

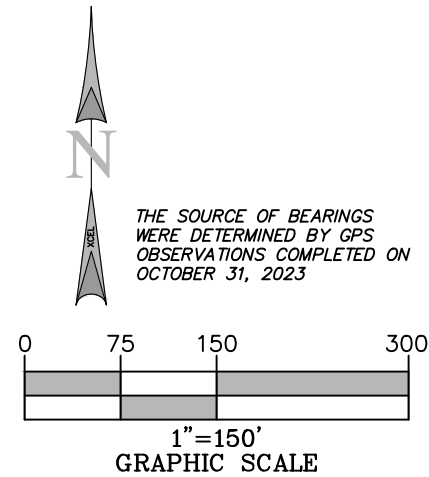
- CONSTRUCTION OF A NEW UNMANNED TELECOMMUNICATIONS FACILITY
- SITE WORK: NEW TOWER, UNMANNED EQUIPMENT CABINET ON PLATFORM, AND UTILITY INSTALLATIONS

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



VICINITY MAP
NOT TO SCALE



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), WISCONSIN COUNTY SYSTEMS: WALWORTH COUNTY, US FOOT.
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 AUGUST 10, 2023, BEING FILE/COMMITMENT NO. TIL-159404-C, FOR THE SUBJECT PROPERTY, TO DETERMINE THE IMPACTS OF EXISTING TITLE EXCEPTIONS.

*** FAA COORDINATE POINT**

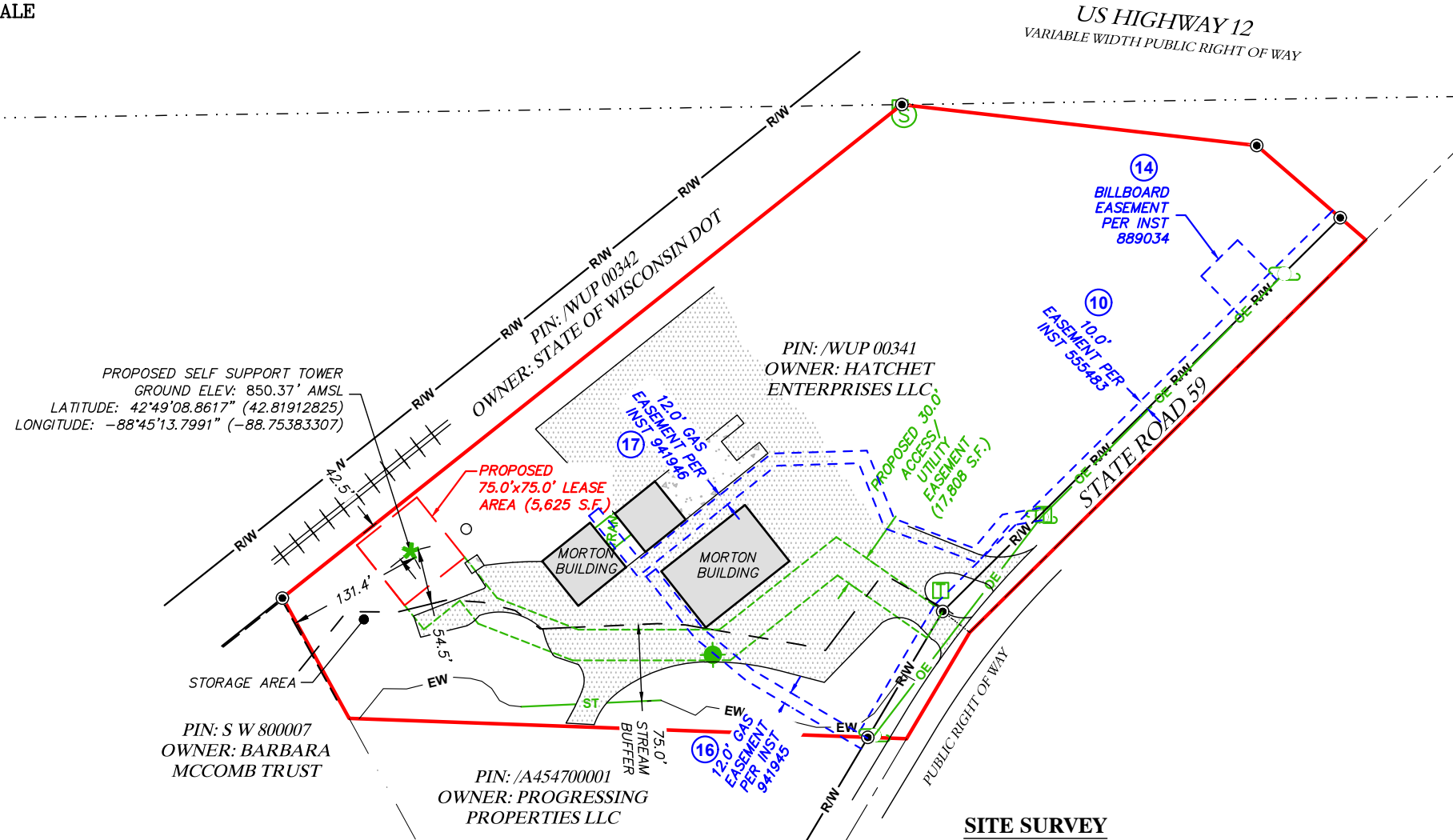
NAD 83
LATITUDE: 42°49'08.8617" (42.81912825)
LONGITUDE: -88°45'13.7991" (-88.75383307)
NAVD88
ELEVATIONS: 850.37± AMSL

TEMPORARY BENCHMARK

LATITUDE: 42°49'07.8707" (42.81885298)
LONGITUDE: -88°45'09.8384" (-88.75273289)
ELEVATION: 845.76'
LOCATION: SET IRON ROD

LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- LEASE LINE
- ACCESS/UTILITY EASEMENT
- RIGHT OF WAY LINE
- SURVEY TIE LINE
- CONTOURS
- STREAM BUFFER
- EASEMENT LINE
- EXISTING STREAM CENTERLINE
- BUILDING
- MISC. FENCE
- STORM DRAIN LINE
- OVERHEAD ELECTRIC LINE CENTERLINE
- BENCHMARK
- FOUND MONUMENT
- UTILITY POLE
- TELEPHONE PEDESTAL
- SANITARY MANHOLE
- TRANSFORMER
- POINT OF BEGINNING
- POINT OF COMMENCEMENT
- CENTERLINE OF TOWER LOCATION
- MEASURED & RECORD
- S.F.



SITE 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 J. Kuehl
FEBRUARY 5, 2024

DAN J. KUEHL
LICENSE NUMBER 3104-8
MY LICENSE RENEWAL DATE IS JANUARY 31, 2026
SHEETS COVERED BY THIS SEAL B-1, B-1.1, B-1.2, AND B-1.3

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
120 10TH AVENUE EAST, SUITE 3
MILAN, IL 61264
(O) 309-787-9988
(F) 309-756-5540
(E) XCEL@XCELCONSULTANTSINC.COM

XCEL PROJECT NUMBER: 234903

SITE SURVEY

REV.	DATE	DESCRIPTION

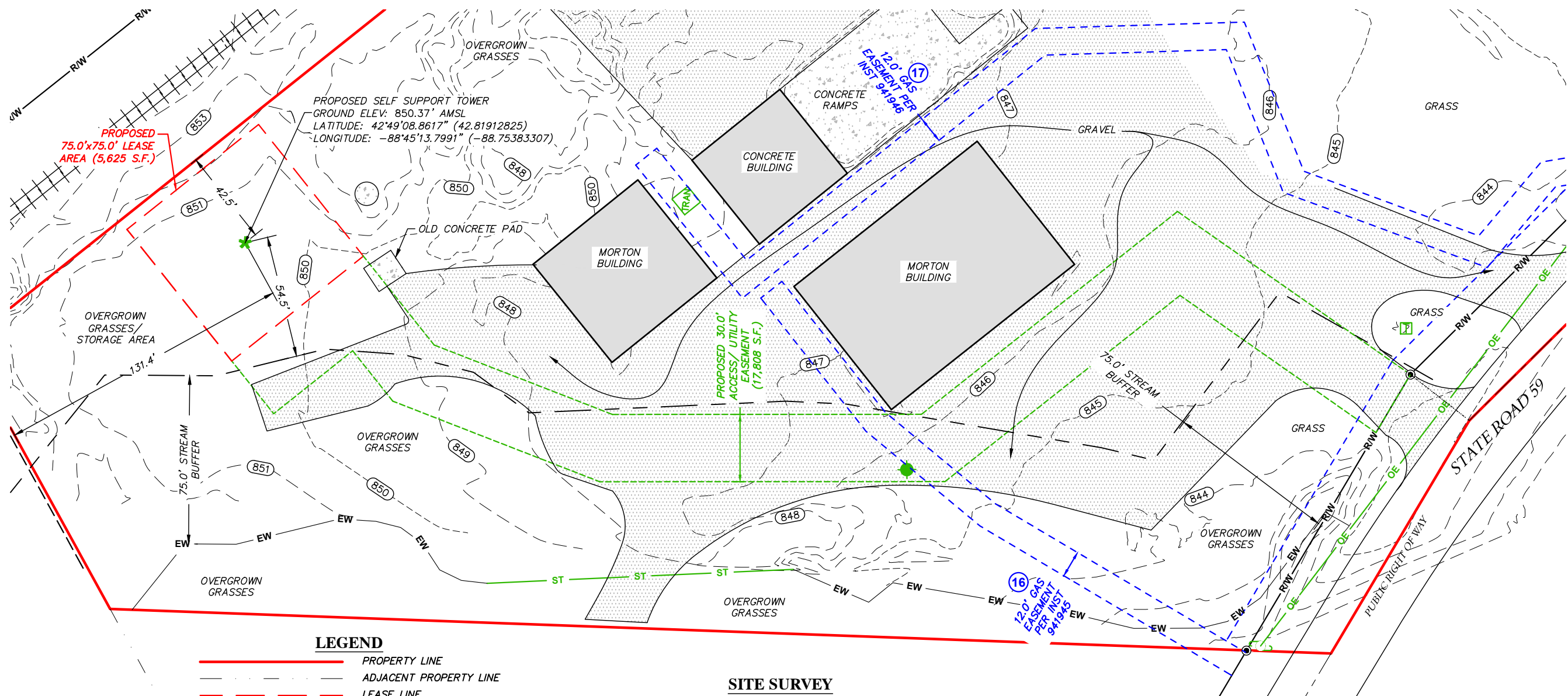
SITE INFORMATION:
WHITewater
1002 S JANESVILLE STREET
WHITewater, WI 53190
WALWORTH COUNTY
TAX PARCEL NUMBER:
/WUP 00341
PROPERTY OWNER:
HATCHETT ENTERPRISES LLC
1002 S JANESVILLE STREET
WHITewater, WI 53190

SITE NUMBER:
TI-OPP-29018

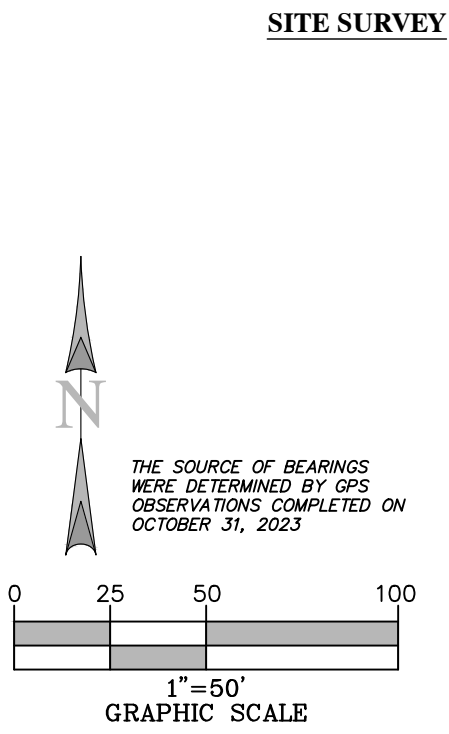
DRAWN BY: KJM
CHECKED BY: BCH
SURVEY DATE: 10/31/2023
PLAT DATE: XX

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

SHEET NUMBER:
B-1



- LEGEND**
- PROPERTY LINE
 - - - ADJACENT PROPERTY LINE
 - - - - LEASE LINE
 - - - - ACCESS/UTILITY EASEMENT
 - RW — RIGHT OF WAY LINE
 - - - - SURVEY TIE LINE
 - - - - CONTOURS
 - - - - STREAM BUFFER
 - - - - EASEMENT LINE
 - EW — EXISTING STREAM CENTERLINE
 - BUILDING
 - - - - MISC. FENCE
 - ST — STORM DRAIN LINE
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 - BENCHMARK
 - FOUND MONUMENT
 - UTILITY POLE
 - TELEPHONE PEDESTAL
 - SANITARY MANHOLE
 - TRANSFORMER
 - POB POINT OF BEGINNING
 - POC POINT OF COMMENCEMENT
 - * (M&R) CENTERLINE OF TOWER LOCATION
 - * S.F. MEASURED & RECORD SQUARE FEET



*** FAA COORDINATE POINT**
NAD 83
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BARRINGTON, IL 60010
TELEPHONE: 847.277.0070
FAX : 847.277.0080
ae@westchesterservices.com

PREPARED FOR:
TILLMAN INFRASTRUCTURE

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XCEL PROJECT NUMBER: 234903

SITE SURVEY

REV.	DATE	DESCRIPTION

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1002 S JANESVILLE STREET
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/WUP 00341
PROPERTY OWNER:
HATCHETT ENTERPRISES LLC
1002 S JANESVILLE STREET
WHITWATER, WI 53190

SITE NUMBER:
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DRAWN BY: KJM
CHECKED BY: BCH
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PLAT DATE: XX

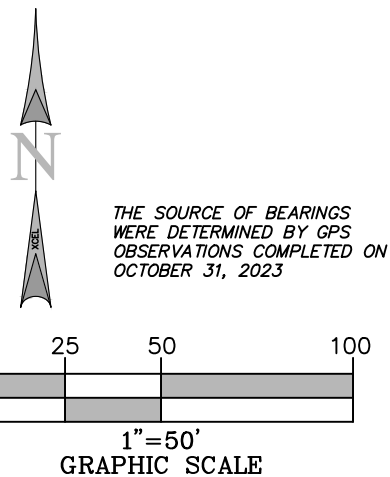
SHEET TITLE:
SITE SURVEY
THIS DOES NOT REPRESENT A
BOUNDARY SURVEY OF THE
PARENT PARCEL

SHEET NUMBER:
B-1.1



AERIAL SURVEY

AERIAL PER XCEL FLOWN DRONE ON OCTOBER 31, 2023



LEGEND

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



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
 FEBRUARY 5, 2024
 DAN J. KUEHL
 LICENSE NUMBER 3104-8
 MY LICENSE RENEWAL DATE IS JANUARY 31, 2026
 SHEETS COVERED BY THIS SEAL B-1, B-1.1, B-1.2, AND B-1.3

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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XCEL PROJECT NUMBER: 234903

SITE SURVEY

REV.	DATE	DESCRIPTION

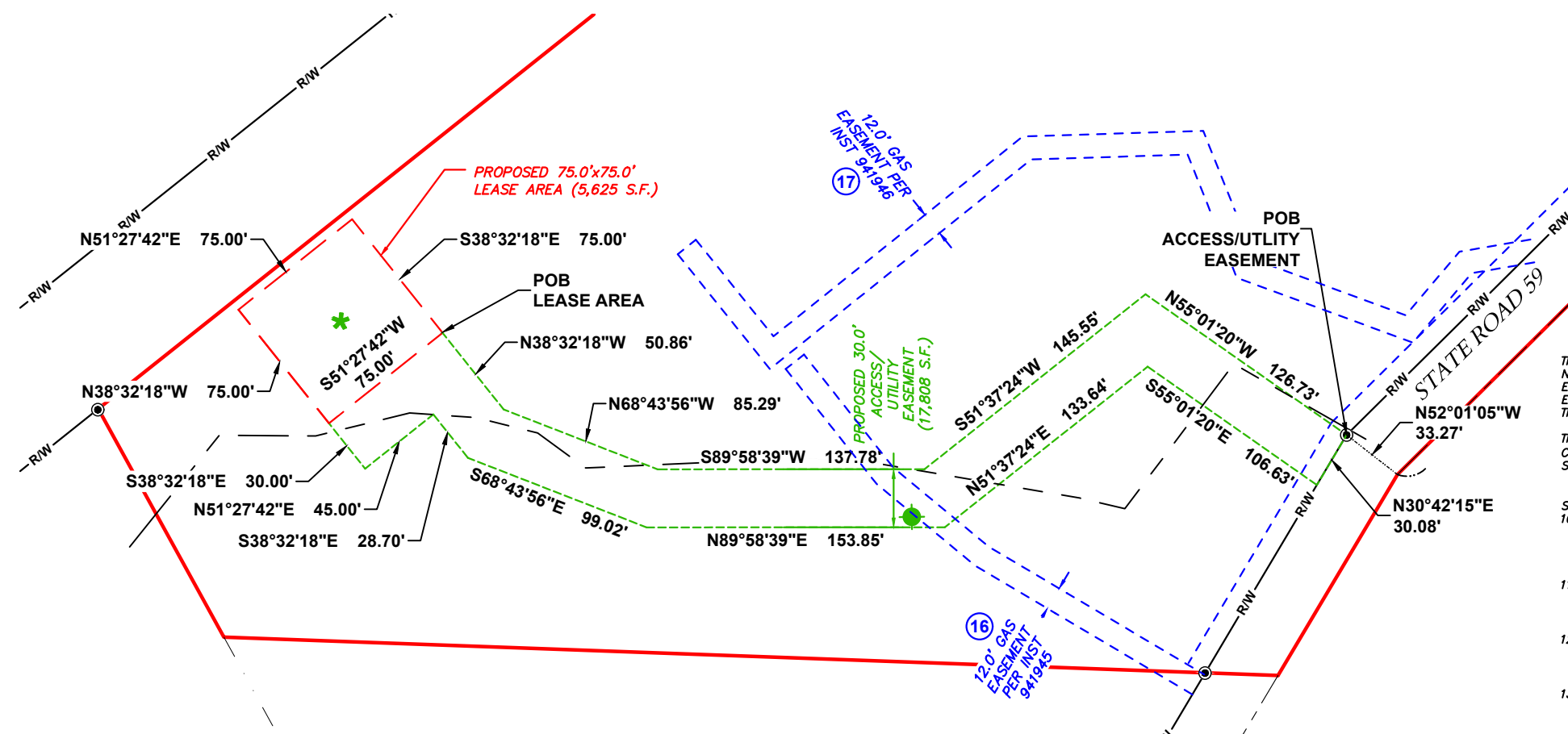
SITE INFORMATION:
WHITEWATER
 1002 S JANESVILLE STREET
 WHITEWATER, WI 53190
 WALWORTH COUNTY
 TAX PARCEL NUMBER:
 /WUP 00341
 PROPERTY OWNER:
 HATCHETT ENTERPRISES LLC
 1002 S JANESVILLE STREET
 WHITEWATER, WI 53190

SITE NUMBER:
 TI-OPP-29018

DRAWN BY: KJM
 CHECKED BY: BCH
 SURVEY DATE: 10/31/2023
 PLAT DATE: XX

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

SHEET NUMBER:
B-1.2



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, IMPLIED 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 AUGUST 10, 2023, BEING FILE/COMMITMENT NO. TIL-159404-C, FOR THE SUBJECT PROPERTY, TO DETERMINE THE IMPACTS OF EXISTING TITLE EXCEPTIONS.

SURVEY MATTERS OR EASEMENTS LISTED IN SCHEDULE 'B':
 10. EASEMENT BETWEEN NATIONAL DISTILLERS AND CHEMICAL CORP.; AND WISCONSIN ELECTRIC POWER COMPANY AND WISCONSIN TELEPHONE COMPANY, DATED NOVEMBER 14, 1963 AND RECORDED DECEMBER 11, 1963 IN (BOOK) 599 (PAGE) 643 (INSTRUMENT) 555483, IN WALWORTH COUNTY, WISCONSIN. LIES ON PROPERTY - AS SHOWN.

11. PUBLIC SANITARY SEWER MAIN AND WATER MAIN EASEMENT BETWEEN S.M. HOLDINGS, LLP; AND HOFFMANN LANDS, LTD., DATED JUNE 4, 2003 AND RECORDED JULY 11, 2003 IN (PAGE) 1279 (INSTRUMENT) 0565278, IN WALWORTH COUNTY, WISCONSIN. DOES NOT LIE ON SUBJECT PROPERTY.

12. ANY AND ALL MATTERS DISCLOSED ON THE MAP ENTITLED "TRANSPORTATION PROJECT PLAT NO: 3140-02-20-4.03" DATED FEBRUARY 26, 2009 AND RECORDED MARCH 5, 2009 IN (BOOK) D (PAGE) 150, (INSTRUMENT) 756802 IN WALWORTH COUNTY, WISCONSIN. NOTHING TO PLOT.

13. NOTICE OF LIS PENDENS BETWEEN STATE OF WISCONSIN, COUNTY OF WALWORTH AND MOUNTAIN WEST OF WISCONSIN, LLC, A MONTANA LIMITED LIABILITY COMPANY, DATED JUNE 9, 2009 AND RECORDED JUNE 11, 2009 IN (INSTRUMENT) 765659, IN WALWORTH COUNTY, WISCONSIN. AFFECTED BY A(N) AWARD OF DAMAGES BETWEEN STATE OF WISCONSIN, DEPARTMENT OF TRANSPORTATION AND MOUNTAIN WEST OF WISCONSIN, LLC, A MONTANA LIMITED LIABILITY COMPANY; MOUNTAIN WEST BANK, N.A., DATED JULY 2, 2009 AND RECORDED JULY 6, 2009 IN (INSTRUMENT) 767729, IN WALWORTH COUNTY, WISCONSIN. NOTHING TO PLOT.

14. GRANT OF EASEMENT BETWEEN MOUNTAIN WEST BANK, NA; AND TLC PROPERTIES, INC., A LOUISIANA CORPORATION, DATED JULY 21, 2014 AND RECORDED JULY 31, 2014 IN (INSTRUMENT) 889034, IN WALWORTH COUNTY, WISCONSIN. LIES ON PROPERTY - AS SHOWN.

15. ANY AND ALL MATTERS DISCLOSED ON THE MAP ENTITLED "CERTIFIED SURVEY MAP NO. 4547" DATED JULY 14, 2014 AND RECORDED SEPTEMBER 3, 2014 IN (BOOK) 29 (PAGE) 352, (INSTRUMENT) 890758 IN WALWORTH COUNTY, WISCONSIN. NOT ON SUBJECT PROPERTY - NOTHING TO PLOT.

16. DISTRIBUTION EASEMENT GAS BETWEEN PROGRESSING PROPERTIES, LLC; AND WISCONSIN ELECTRIC POWER COMPANY, A WISCONSIN CORPORATION DOING BUSINESS AS WE ENERGIES, DATED OCTOBER 7, 2016 AND RECORDED FEBRUARY 23, 2017 IN (INSTRUMENT) 941945, IN WALWORTH COUNTY, WISCONSIN. LIES ON PROPERTY - CROSSES PROPOSED ACCESS/UTILITY EASEMENT- AS SHOWN.

17. DISTRIBUTION EASEMENT UNDERGROUND BETWEEN PROGRESSING PROPERTIES, LLC; AND WISCONSIN ELECTRIC POWER COMPANY, A WISCONSIN CORPORATION DOING BUSINESS AS WE ENERGIES, DATED OCTOBER 7, 2016 AND RECORDED FEBRUARY 23, 2017 IN (INSTRUMENT) 941946, IN WALWORTH COUNTY, WISCONSIN. LIES ON PROPERTY - AS SHOWN.

PROPOSED LEASE AREA:

A PART OF THE N1/2 OF THE SW1/4 OF SECTION 8, TOWN 4 NORTH, RANGE 15 EAST, WITHIN THE CITY OF WHITEWATER, WALWORTH COUNTY, WISCONSIN, MORE PARTICULARLY DESCRIBED AS: COMMENCING AT THE NW CORNER OF THE SAID SW1/4 OF SECTION 8; THENCE S89°09'35"W, ALONG THE NORTH LINE OF THE SAID SW1/4, 619.57 FEET TO THE CENTER LINE OF STATE ROAD 59; THENCE S45°15'35"W, ALONG THE SAID CENTER LINE, 744.62 FEET; THENCE N52°01'05"W, 33.27 FEET TO THE WEST LINE OF SAID STATE ROAD 59; THENCE N55°01'20"W, 126.73 FEET; THENCE S51°37'24"W, 145.55 FEET; THENCE S89°58'39"W, 137.78 FEET; THENCE N68°43'56"W, 85.29 FEET; THENCE N38°32'18"W, 50.86 FEET TO THE POINT OF BEGINNING FOR THE LEASE AREA HEREIN INTENDED TO BE DESCRIBED; THENCE S51°27'42"W, 75.00 FEET; THENCE N38°32'18"W, 75.00 FEET; THENCE N51°27'42"E, 75.00 FEET; THENCE S38°32'18"E, 75.00 FEET TO THE POINT OF BEGINNING, CONTAINING 5,625 SQUARE FEET.

PROPOSED ACCESS/UTILITY EASEMENT:

A PART OF THE N1/2 OF THE SW1/4 OF SECTION 8, TOWN 4 NORTH, RANGE 15 EAST, WITHIN THE CITY OF WHITEWATER, WALWORTH COUNTY, WISCONSIN, MORE PARTICULARLY DESCRIBED AS: COMMENCING AT THE NW CORNER OF THE SAID SW1/4 OF SECTION 8; THENCE S89°09'35"W, ALONG THE NORTH LINE OF THE SAID SW1/4, 619.57 FEET TO THE CENTER LINE OF STATE ROAD 59; THENCE S45°15'35"W, ALONG THE SAID CENTER LINE, 744.62 FEET; THENCE N52°01'05"W, 33.27 FEET TO THE WEST LINE OF SAID STATE ROAD 59 AND BEING THE POINT OF BEGINNING FOR THE EASEMENT HEREIN INTENDED TO BE DESCRIBED; THENCE N55°01'20"W, 126.73 FEET; THENCE S51°37'24"W, 145.55 FEET; THENCE S89°58'39"W, 137.78 FEET; THENCE N68°43'56"W, 85.29 FEET; THENCE N38°32'18"W, 50.86 FEET TO THE SE CORNER OF THE PROPOSED LEASE AREA; THENCE S51°27'42"W, ALONG THE SOUTHEASTERLY LINE OF PROPOSED LEASE AREA, 75.00 FEET; THENCE S38°32'18"E, 30.00 FEET; THENCE N51°27'42"E, 45.00 FEET; THENCE S38°32'18"E, 28.70 FEET; THENCE S68°43'56"E, 99.02 FEET; THENCE N89°58'39"E, 153.85 FEET; THENCE N51°37'24"E, 133.64 FEET; THENCE S55°01'20"E, 106.63 FEET TO THE SAID WEST LINE OF STATE ROAD 59; THENCE N30°42'15"E, ALONG THE SAID WEST LINE OF STATE ROAD 59, 30.08 FEET TO THE POINT OF BEGINNING, CONTAINING 17,808 SQUARE FEET.

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: PARCEL 1:

A PARCEL OF LAND LOCATED IN THE SOUTHWEST 1/4 OF SECTION 8, TOWN 4 NORTH, RANGE 15 EAST OF THE CITY OF WHITEWATER, WALWORTH COUNTY, WISCONSIN, DESCRIBED AS FOLLOWS, TO-WIT: COMMENCING AT THE MIDDLE 1/4 SECTION CORNER OF SAID SECTION 8; THENCE WEST ALONG THE EAST-WEST 1/4 SECTION LINE 619.72 FEET TO THE CENTER LINE OF STATE TRUNK HIGHWAY NO. 59, WHICH POINT IS THE PLACE OF BEGINNING; THENCE SOUTH 43° 35' WEST ALONG THE CENTER LINE OF SAID HIGHWAY 743.72 FEET; THENCE SOUTH 28° 59' WEST ALONG THE CENTERLINE OF SAID HIGHWAY 664.31 FEET; THENCE NORTH 30° 29' WEST 690.20 FEET TO THE SOUTHERLY LINE OF THE C.M. ST. P. & P. RAILROAD RIGHT OF WAY; THENCE NORTH 49° 41' EAST ALONG THE RAILROAD RIGHT OF WAY 774.72 FEET TO THE EAST-WEST 1/4 SECTION LINE OF SAID SECTION 8; THENCE EAST ALONG SAID LINE 594.31 FEET TO THE PLACE OF BEGINNING.

ALSO A TRIANGULAR-SHAPED PARCEL OF LAND LOCATED IN THE NORTHWEST 1/4 OF SECTION 8, TOWN 4 NORTH, RANGE 15 EAST OF THE CITY OF WHITEWATER, WALWORTH COUNTY, WISCONSIN, DESCRIBED AS FOLLOWS, TO-WIT:

COMMENCING AT THE MIDDLE 1/4 SECTION CORNER OF SAID SECTION 8; THENCE WEST ALONG THE EAST-WEST 1/4 SECTION LINE 1214.03 FEET TO THE SOUTHERLY LINE OF THE C. M. ST. P. & P. RAILROAD RIGHT OF WAY; WHICH POINT IS THE PLACE OF BEGINNING; THENCE EAST ALONG SAID EAST-WEST 1/4 SECTION LINE 291.155 FEET TO A POINT; THENCE NORTHWESTERLY TO A POINT ON THE SOUTHERLY LINE OF SAID RAILROAD RIGHT OF WAY WHICH POINT IS 200 FEET NORTHEASTERLY, AS MEASURED ALONG THE SOUTHERLY LINE OF SAID RAILROAD RIGHT OF WAY, FROM THE PLACE OF BEGINNING HEREOF; THENCE SOUTH 49° 47' WEST ALONG THE SOUTHERLY LINE OF SAID RAILROAD RIGHT OF WAY 200 FEET TO THE PLACE OF BEGINNING.

EXCEPTING THEREFROM A TRIANGULAR-SHAPED PARCEL OF LAND LOCATED IN THE SOUTHWEST 1/4 OF SECTION 8, TOWN 4 NORTH, RANGE 15 EAST OF THE CITY OF WHITEWATER, WALWORTH COUNTY, WISCONSIN, DESCRIBED AS FOLLOWS, TO-WIT: COMMENCING AT THE MIDDLE 1/4 SECTION CORNER OF SAID SECTION 8; THENCE WEST ALONG THE EAST-WEST 1/4 SECTION LINE 619.72 FEET TO THE CENTER LINE OF STATE TRUNK HIGHWAY NO. 59, WHICH POINT IS THE PLACE OF BEGINNING; THENCE WEST ALONG SAID EAST-WEST 1/4 SECTION LINE 297.155 FEET TO A POINT; THENCE SOUTHEASTERLY TO A POINT ON THE CENTER LINE OF SAID STATE TRUNK HIGHWAY NO. 59 WHICH POINT IS 200 FEET SOUTHWESTERLY, AS MEASURED ALONG THE CENTER LINE OF SAID HIGHWAY, FROM THE PLACE OF BEGINNING HEREOF; THENCE NORTH 43° 35' EAST ALONG THE CENTER LINE OF SAID HIGHWAY 200 FEET TO THE PLACE OF BEGINNING.

FURTHER EXCEPTING LANDS CONVEYED TO THE STATE OF WISCONSIN BY DEED RECORDED AUGUST 28, 2001, AS DOCUMENT NO. 481415.

FURTHER EXCEPTING LANDS CONVEYED TO THE STATE OF WISCONSIN, DEPARTMENT OF TRANSPORTATION UNDER AN AWARD OF DAMAGES RECORDED JULY 6, 2009, AS DOCUMENT NO. 767729.

FURTHER EXCEPTING ALL THAT PORTION THEREOF AS IS SET FORTH IN CERTIFIED SURVEY MAP NO. 4547 RECORDED IN VOLUME 29 OF CERTIFIED SURVEYS ON PAGE 352 AS DOCUMENT NO. 890758, BEING A CERTIFIED SURVEY MAP OF PART OF THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 AND THE NORTHEAST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 8, TOWN 4 NORTH, RANGE 15 EAST, CITY OF WHITEWATER, WALWORTH COUNTY, WISCONSIN.

PARCEL ID: /WUP 00341

THIS BEING THE SAME PROPERTY CONVEYED TO HATCHETT ENTERPRISES, LLC, A WISCONSIN LIMITED LIABILITY COMPANY FROM PROGRESSING PROPERTIES, LLC, A WISCONSIN LIMITED LIABILITY COMPANY IN A DEED DATED MAY 2, 2022 AND RECORDED MAY 4, 2022 AS INSTRUMENT NO. 1061224, IN WALWORTH COUNTY, WI.



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
 DAN J. KUEHL
 FEBRUARY 5, 2024

DAN J. KUEHL
 LICENSE NUMBER 3104-8
 MY LICENSE RENEWAL DATE IS JANUARY 31, 2026
 SHEETS COVERED BY THIS SEAL B-1, B-1.1, B-1.2, AND B-1.3

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
 120 10TH AVENUE EAST, SUITE 3
 MILWAUKEE, IL 61264
 (C) 308-787-9988
 (F) 308-756-5540
 (E) XCEL@XCELCONSULTANTSINC.COM

XCEL PROJECT NUMBER: 234903

SITE SURVEY

REV.	DATE	DESCRIPTION

SITE INFORMATION:

WHITEWATER
 1002 S JANESVILLE STREET
 WHITEWATER, WI 53190
 WALWORTH COUNTY
 TAX PARCEL NUMBER:
 /WUP 00341
 PROPERTY OWNER:
 HATCHETT ENTERPRISES LLC
 1002 S JANESVILLE STREET
 WHITEWATER, WI 53190

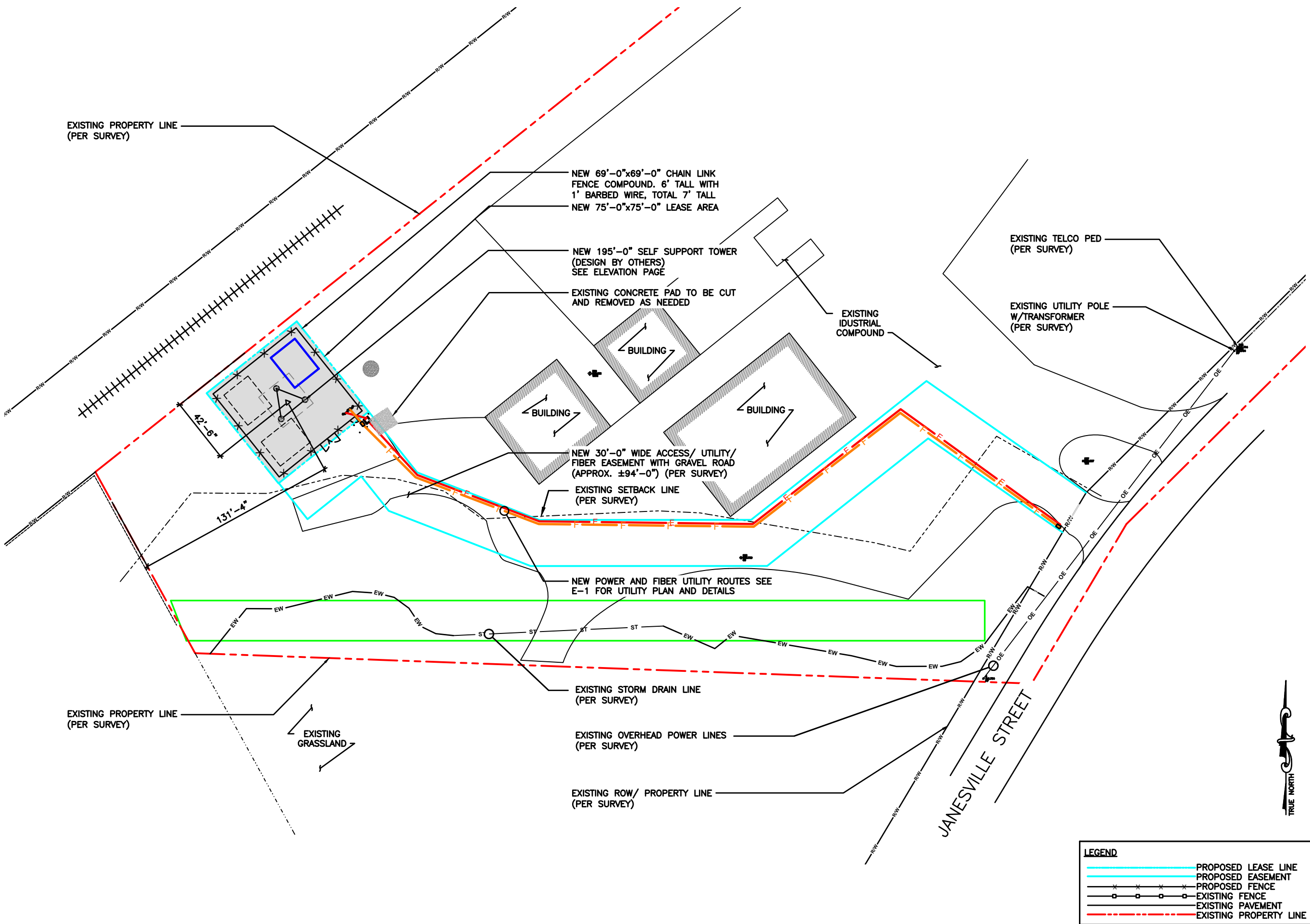
SITE NUMBER:
 TI-OPP-29018

DRAWN BY: KJM
 CHECKED BY: BCH
 SURVEY DATE: 10/31/2023
 PLAT DATE: XX

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

SHEET NUMBER:
B-1.3

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LEGEND	
—	PROPOSED LEASE LINE
---	PROPOSED EASEMENT
x x x x	PROPOSED FENCE
-o-o-o-	EXISTING FENCE
---	EXISTING PAVEMENT
- - - -	EXISTING PROPERTY LINE

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

OVERALL SITE PLAN



WI FIRM 4897-11
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BARRINGTON, IL 60010
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JOHN M. BANKS
ARCHITECT
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TELEPHONE: 847-277-0070
FAX : 847-277-0080
EMAIL : JBANKS@WESTCHESTERSERVICES.COM

DRAWN BY: DWM
CHECKED BY: MC

REV	DATE	DESCRIPTION
A	03/04/24	PRELIMINARY CD
B	03/06/24	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-20018
SITE NAME: WHITWATER
SITE ADDRESS:
1002 S JANESVILLE STREET
WHITWATER, WI 53190
FA#: 11655718
FAA STUDY #: 2024-AGL-23880E

SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
C-1



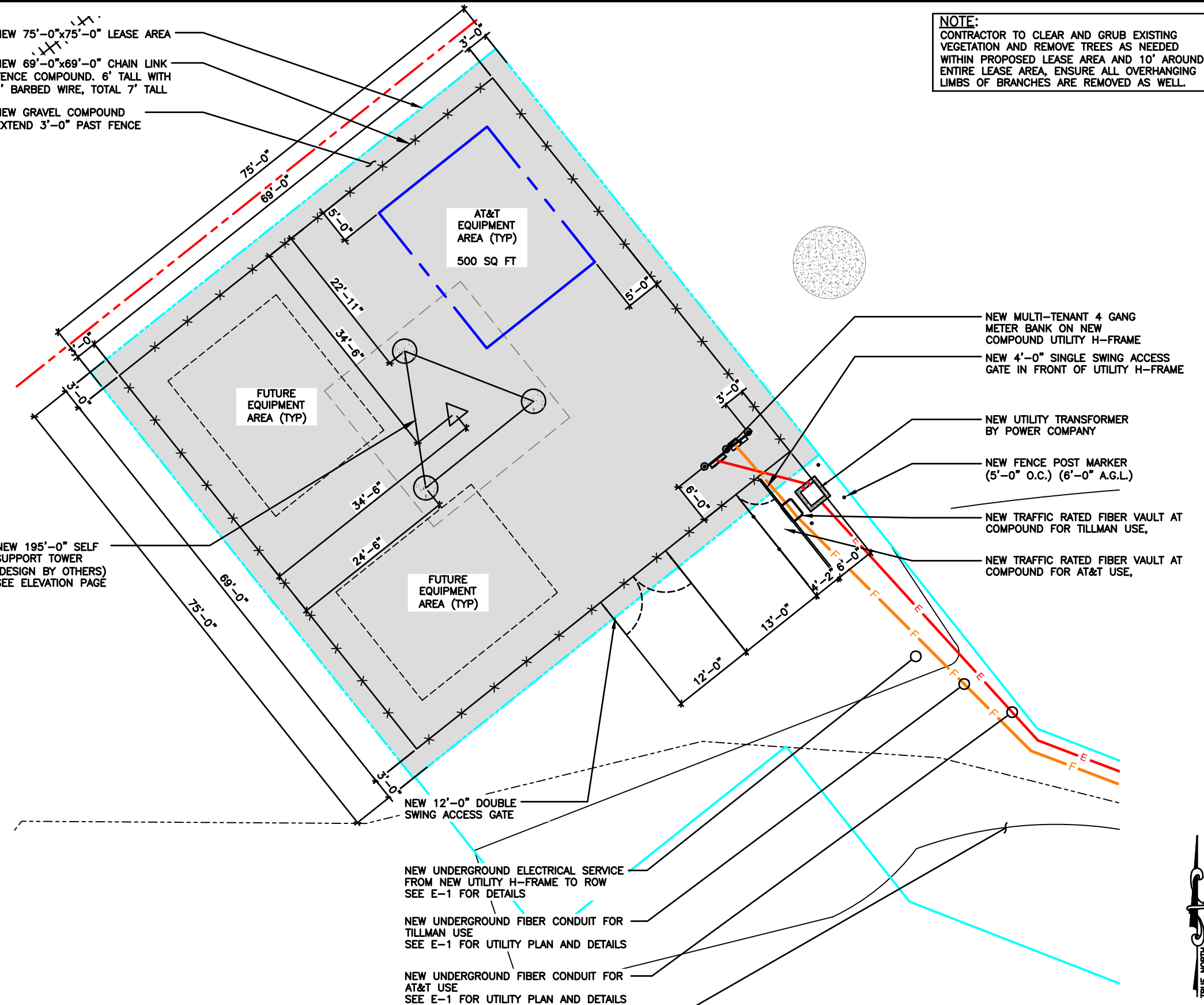
GENERAL NOTES

- ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITIES COMPANY OR OTHER PUBLIC AUTHORITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
- 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.
- 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.
- 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.
- 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.
- CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES AND NOTIFY UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION AT PRIOR TO EXCAVATION AT SITE.
- ANY UNDERGROUND UTILITIES OR STRUCTURES THAT EXIST BENEATH THE PROJECT AREA, CONTRACTOR MUST LOCATE IT AND CONTACT THE APPLICANT & THE OWNER'S REPRESENTATIVE.
- NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
- THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
- THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
- POWER TO THE FACILITY WILL BE MONITORED BY A SEPARATE METER.
- THERE ARE NO COMMERCIAL SIGNS PROPOSED FOR THIS INSTALLATION.
- 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.
- 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.
- 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.
- THE AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITY SHALL BE GRADED AND RESTORED PER CODE/LANDLORD REQUIREMENTS (REFER TO GRADING PLAN).
- 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.
- UTILITY WARNING TAPE SHALL BE PLACED ABOVE ALL NEW CONDUITS AT MAX 18" DEPTH BELOW GRADE.

NEW 75'-0"x75'-0" LEASE AREA
 NEW 69'-0"x69'-0" CHAIN LINK FENCE COMPOUND. 6' TALL WITH 1' BARBED WIRE, TOTAL 7' TALL
 NEW GRAVEL COMPOUND EXTEND 3'-0" PAST FENCE

NEW 195'-0" SELF SUPPORT TOWER (DESIGN BY OTHERS) SEE ELEVATION PAGE

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



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)



WI FIRM 4897-11
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DRAWN BY: DWM
 CHECKED BY: MC

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TILLMAN OPP# TI-OPP-29018
 SITE NAME: WHITEWATER
 SITE ADDRESS:
 1002 S JANESVILLE STREET
 WHITEWATER, WI 53190
 FA#: 11655718
 FAA STUDY #: 2024-AGL-23880E

SHEET TITLE
ENLARGED SITE PLAN

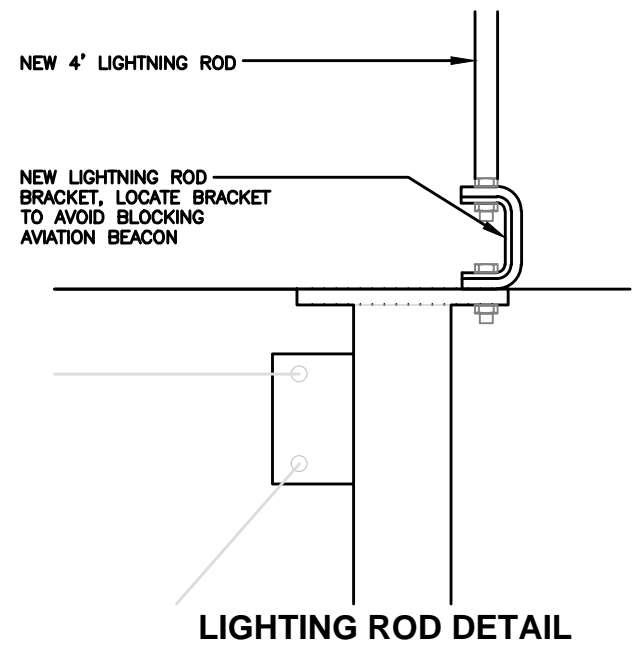
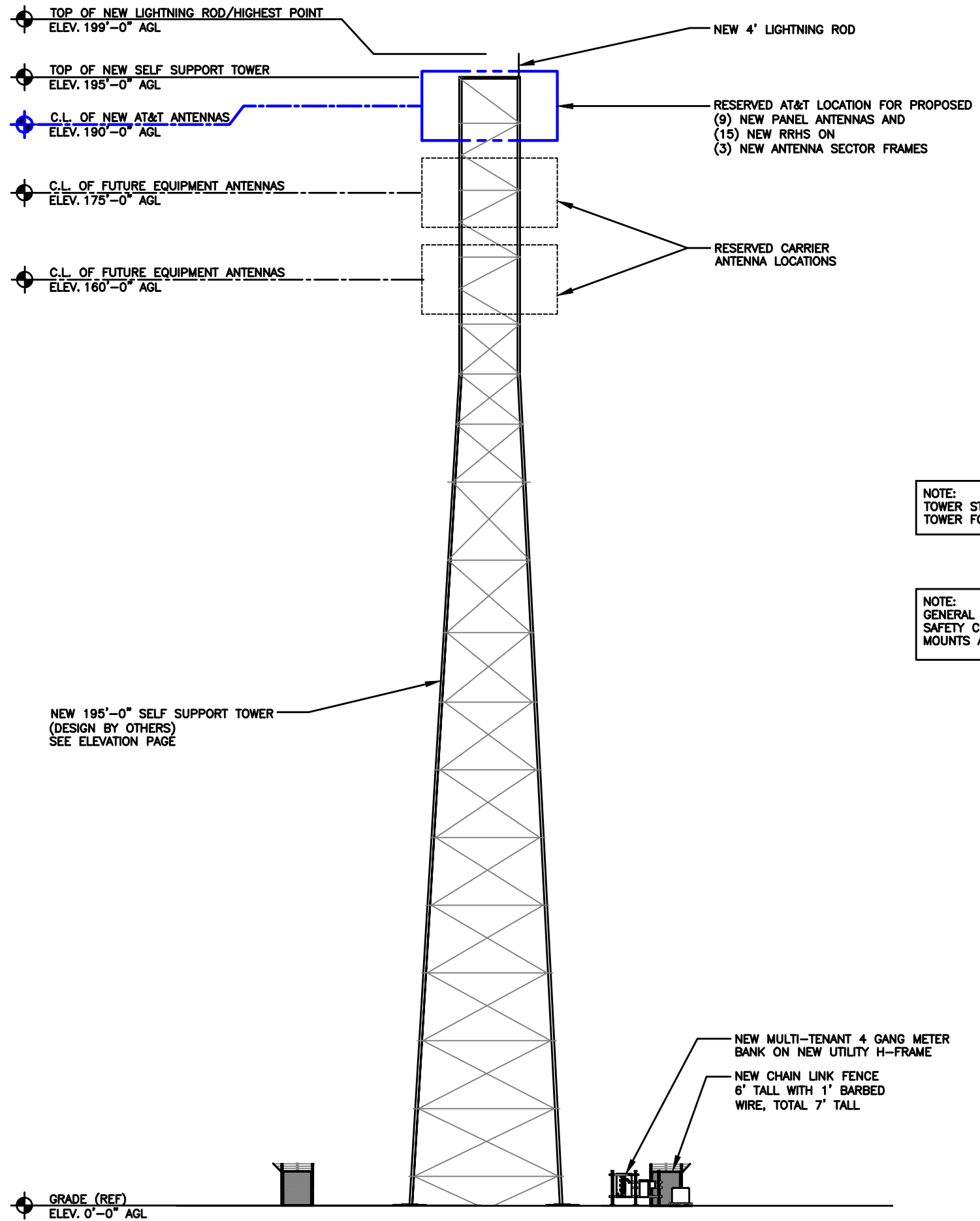
SHEET NUMBER
C-2

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ENLARGED SITE PLAN

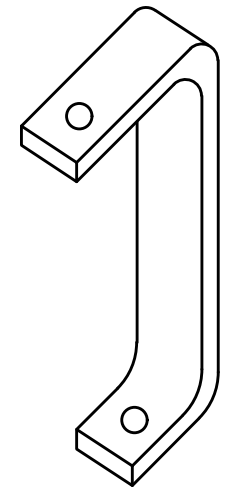


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NOTE:
 TOWER STRUCTURAL ANALYSIS AND DESIGN BY OTHERS
 TOWER FOUNDATION ANALYSIS AND DESIGN BY OTHERS

NOTE:
 GENERAL CONTRACTOR SHALL MAKE SURE
 SAFETY CLIMB IS 100% FREE OF CABLES AND
 MOUNTS AFTER INSTALL IS COMPLETE.



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TILLMAN OPP# TI-OPP-20018
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 SITE ADDRESS:
 1002 S JANESVILLE STREET
 WHITEWATER, WI 53190
 FA#: 11655718
 FAA STUDY #: 2024-AGL-23880E

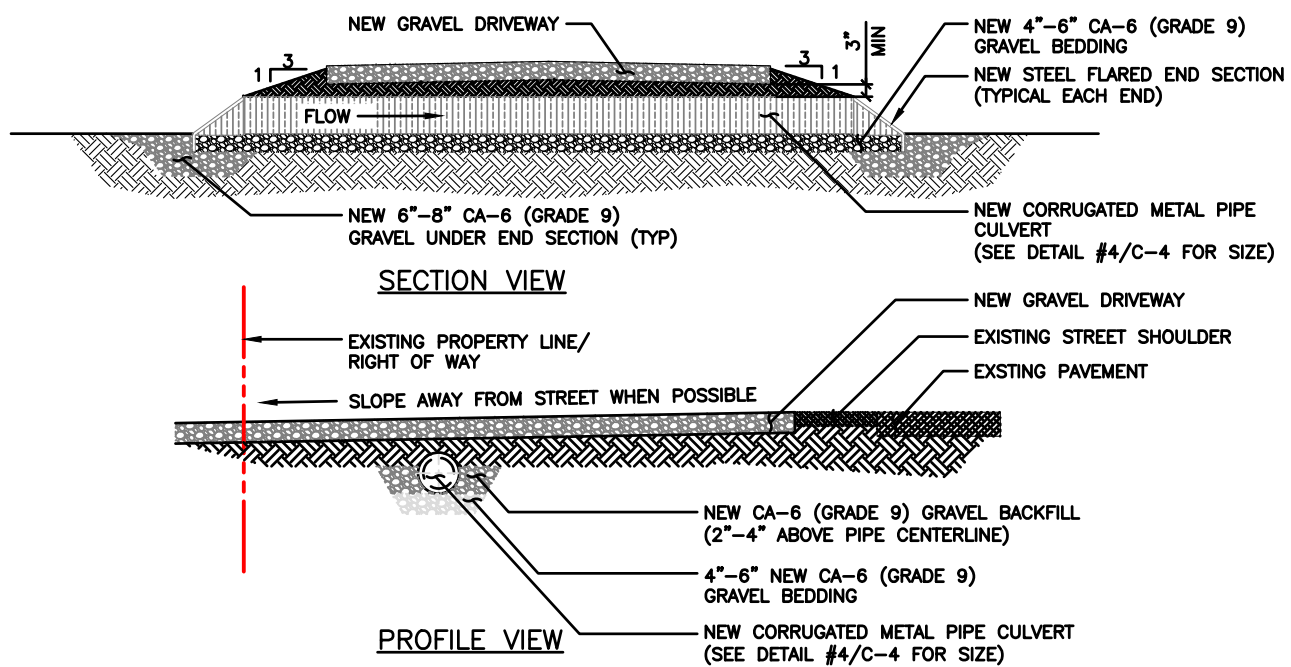
SHEET TITLE
ELEVATION

SHEET NUMBER
C-3

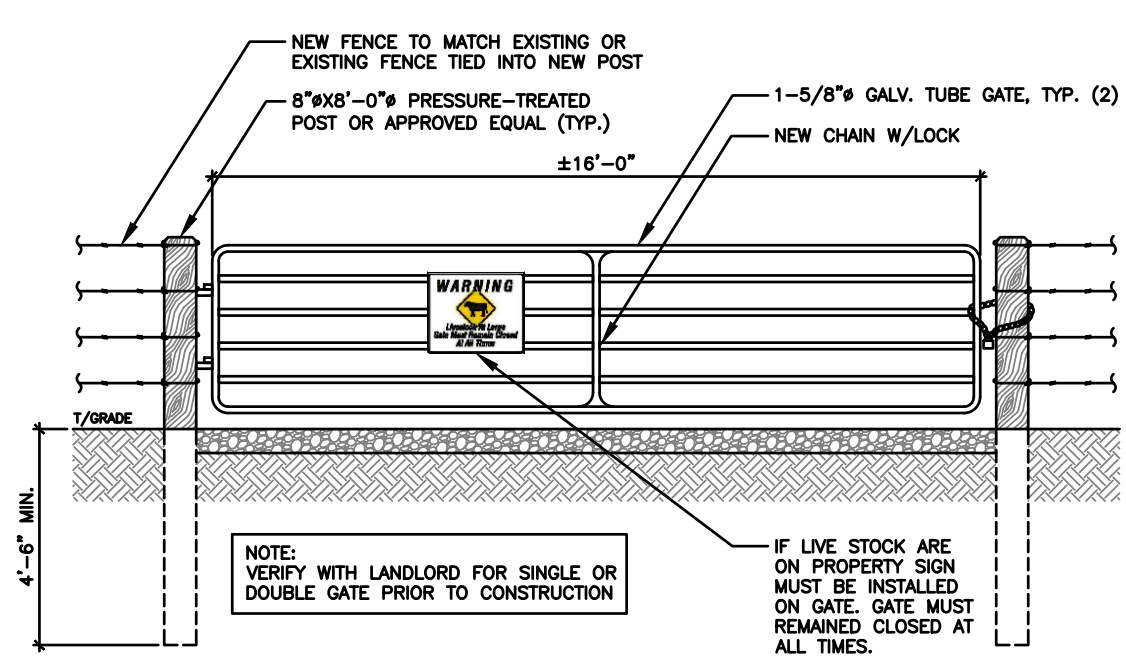
ELEVATION

SCALE
 N.T.S. 1

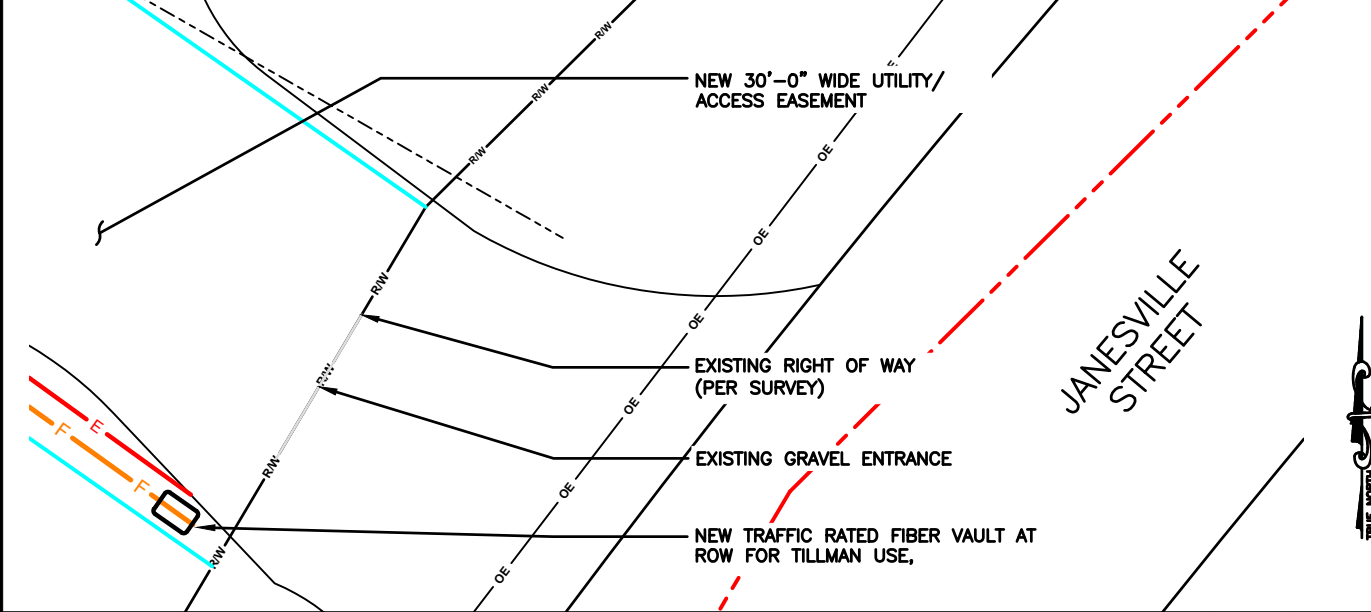
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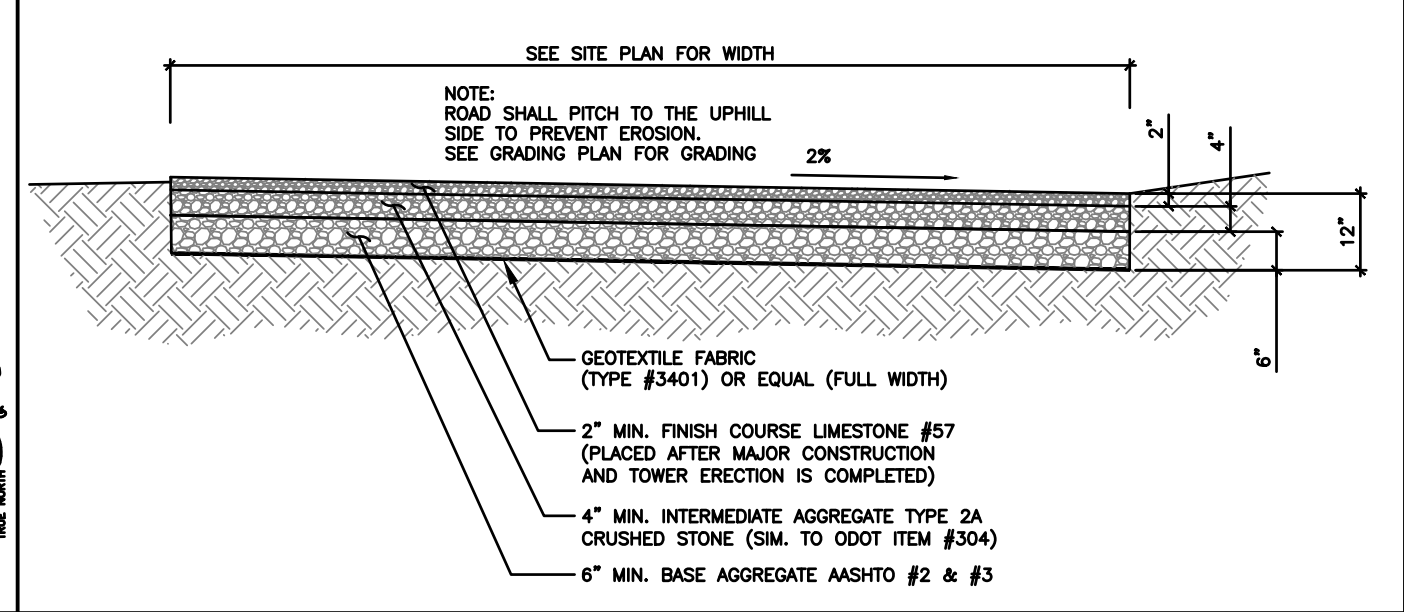
CULVERT DETAIL (IF REQUIRED) SCALE N.T.S. **6**



CATTLE/ STREET GATE DETAIL (IF REQUIRED) SCALE N.T.S. **5**



ACCESS DRIVEWAY @ STREET DETAIL SCALE N.T.S. **4**



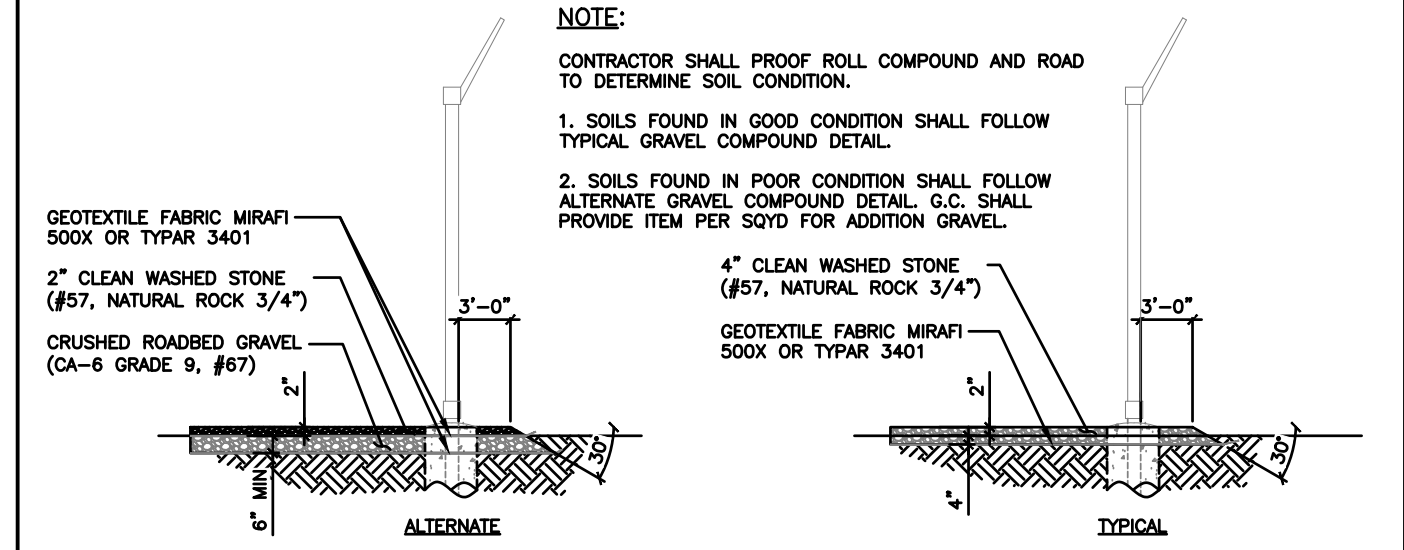
ACCESS DRIVE DETAIL SCALE N.T.S. **3**

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

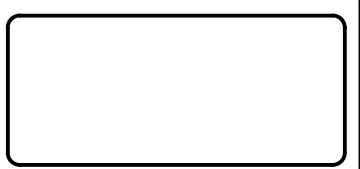
CONCRETE APRON- (IF REQUIRED)
 CLASS C CONCRETE IS REQUIRED FROM EDGE OF PAVEMENT TO R/W. THE SLAB MUST BE 5" THICK. ONE INCH EXPANSION MATERIAL REQUIRED AGAINST ANY EXISTING CONCRETE. NO MORE THAN 2% CALCIUM CHLORIDE ADDED TO MIX. NO MORE THAN 2 GALLONS OF WATER PER CUBIC YARD ADDED TO MIX AT THE BEGINNING 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 APRON NOTES SCALE N.T.S. **2**



GRAVEL COMPOUND DETAIL SCALE N.T.S. **1**



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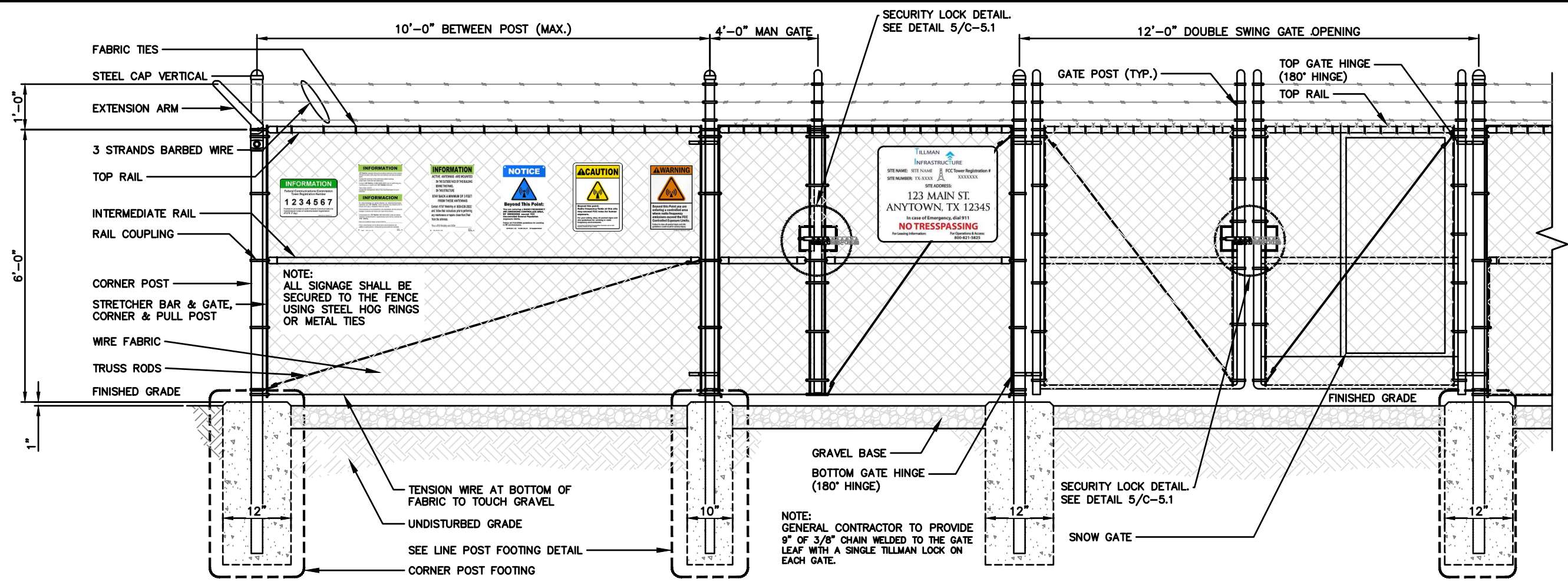
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TILLMAN OPP# TI-OPP-20018
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 1002 S JAMESVILLE STREET
 WHITEWATER, WI 53190
 FA#: 11655718
 FAA STUDY #: 2024-AGL-23880E

SHEET TITLE
CONSTRUCTION DETAILS

SHEET NUMBER
C-4

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COMPOUND FENCING DETAIL

SCALE
N.T.S. **2**



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DRAWN BY: **DWM**
 CHECKED BY: **MC**

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TILLMAN OPP# **TI-OPP-20018**
 SITE NAME: **WHITWATER**
 SITE ADDRESS:
 1002 S JANESVILLE STREET
 WHITWATER, WI 53190
 FA#: 11655718
 FAA STUDY #: 2024-AGL-23880E

SHEET TITLE
FENCE DETAILS

SHEET NUMBER
C-5

NOT USED

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

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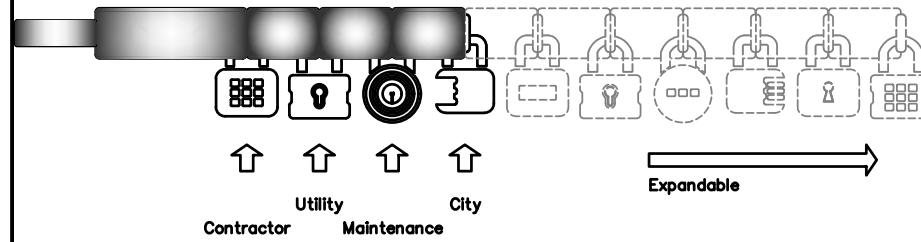
WOVEN WIRE FENCE NOTES:

(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

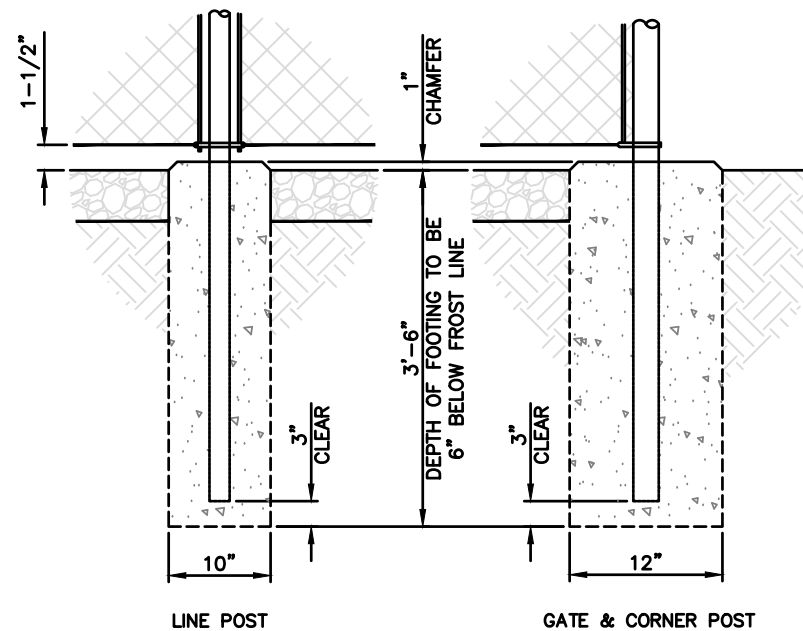
NOTE:
GENERAL CONTRACTOR TO PROVIDE (2) NEW LOCKS FOR MAIN GATE AND MAN GATE. COORDINATE COMBINATION WITH TILLMAN CONSTRUCTION MANAGER.

TILLMAN STANDARD REQUIRES 9" OF 3/8" CHAIN WELDED TO GATE LEAF WITH A SINGLE TILLMAN LOCK ON EACH GATE.



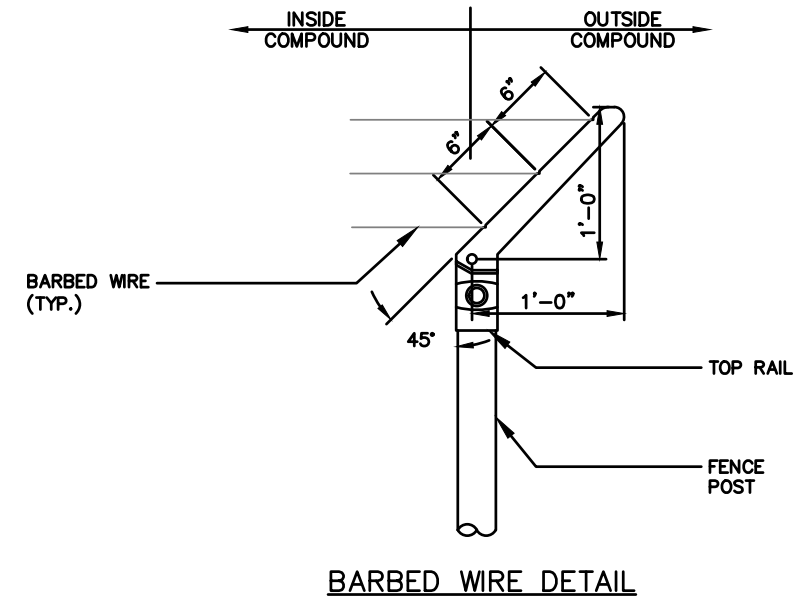
STYMIE LOCKING SYSTEM DETAIL

SCALE
N.T.S. **5**



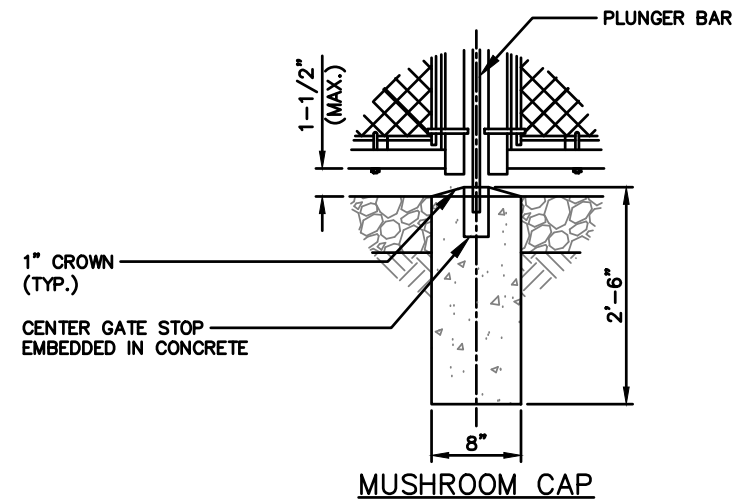
POST FOOTING DETAIL

SCALE
N.T.S. **2**



ANTI-CLIMB BARBED WIRE DETAIL

SCALE
N.T.S. **4**



GATE STOP DETAILS

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

FENCING NOTES

SCALE
N.T.S. **3**



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 FAX : 847-277-0080
 EMAIL : JBANKS@WESTCHESTERSERVICES.COM

DRAWN BY: **DWM**
 CHECKED BY: **MC**

REV	DATE	DESCRIPTION
A	03/04/24	PRELIMINARY CD
B	03/06/24	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-20018**
 SITE NAME: **WHITWATER**
 SITE ADDRESS:
1002 S JANESVILLE STREET
WHITWATER, WI 53190
 FA#: **11655718**
 FAA STUDY #: **2024-AGL-23880E**

SHEET TITLE
FENCE DETAILS

SHEET NUMBER
C-5.1

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WHITE BACKGROUND, RED/BLACK LETTERING
 MOUNTING LOCATION: SHELTER OR TENANT IMPROVEMENT ROOM DOOR.
 IF OUTDOOR CABINET SITE PLACE ON END CABINET CLOSEST TO SITE ACCESS POINT.
 PLACE ON GENERATOR.
 QUANTITY: 1 TO 2

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.

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



WI FIRM 4897-11
 604 FOX GLEN
 BARRINGTON, IL 60010
 PHONE: 847-277-0070
 EMAIL: AE@westchesterservices.com

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 SITE ADDRESS:
 1002 S JANESVILLE STREET
 WHITEWATER, WI 53190
 FAX: 11655718
 FAA STUDY #: 2024-AGL-23880E

SHEET TITLE
SITE SIGNAGE

SHEET NUMBER
C-6

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**

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

RF EXPOSURE INFORMATION SIGN

SCALE N.T.S. **4**

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

RF EXPOSURE NOTICE SIGN

SCALE N.T.S. **3**

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

RF EXPOSURE CAUTION SIGN

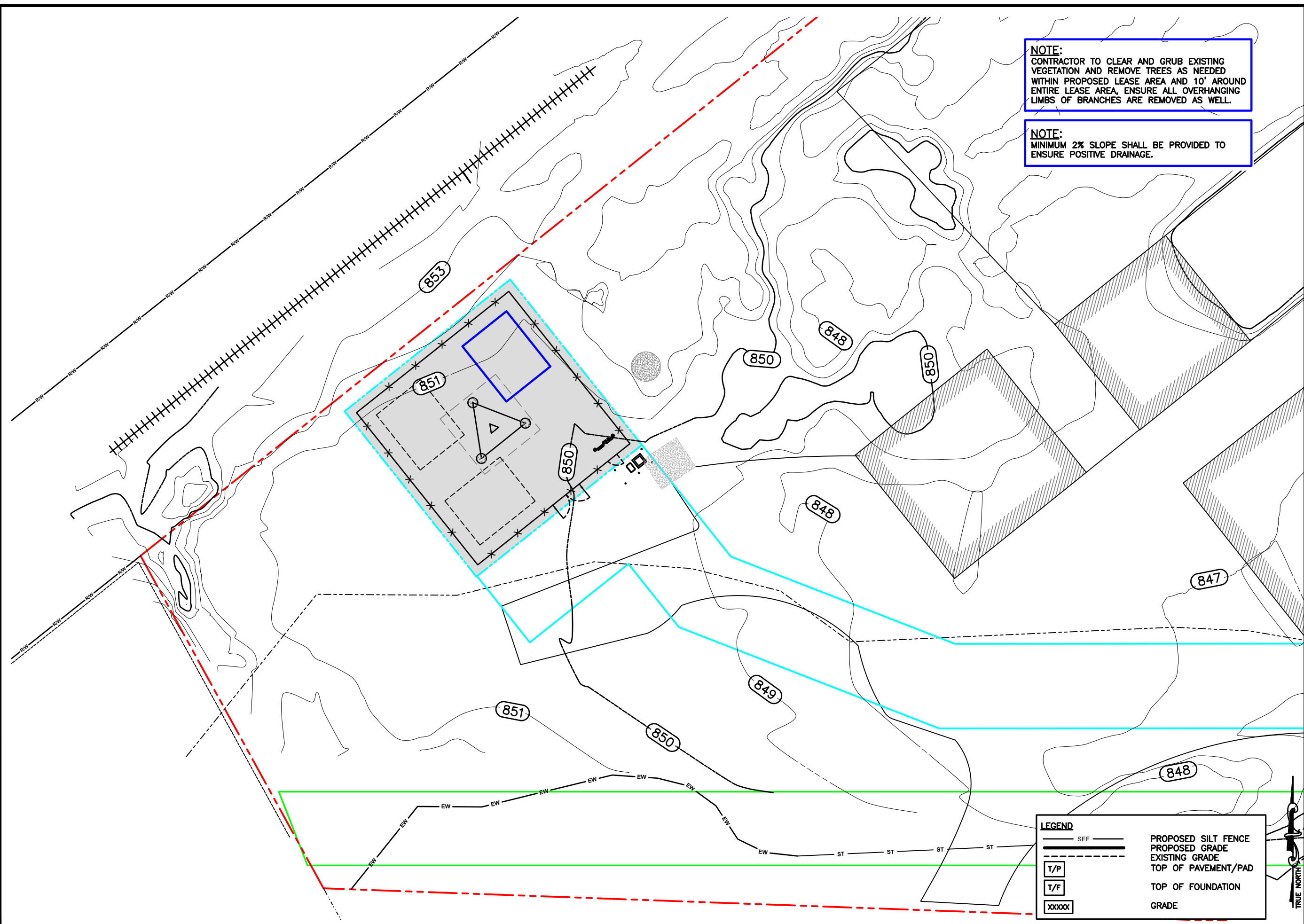
SCALE N.T.S. **2**

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

RF EXPOSURE WARNING SIGN

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

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

NOTE:
MINIMUM 2% SLOPE SHALL BE PROVIDED TO ENSURE POSITIVE DRAINAGE.



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FA#: 11655718
FAA STUDY #: 2024-AGL-23880E

SHEET TITLE
GRADING PLAN

SHEET NUMBER
C-7

LEGEND

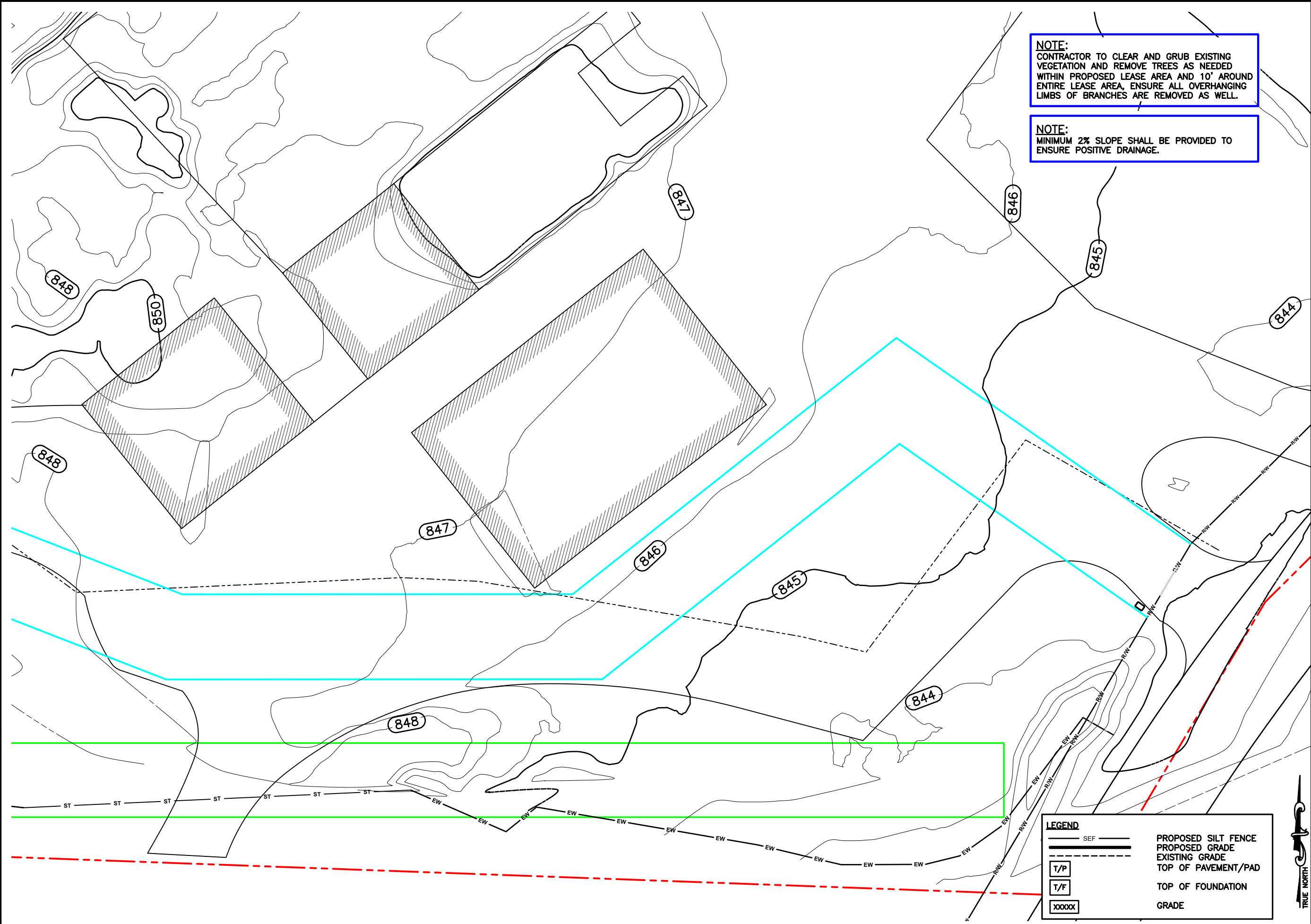
	PROPOSED SILT FENCE
	PROPOSED GRADE
	EXISTING GRADE
	TOP OF PAVEMENT/PAD
	TOP OF FOUNDATION
	GRADE

0 4' 8' 16'
SCALE: 1/16" = 1'-0" (24x36)
(OR) 1/32" = 1'-0" (11x17)

GRADING PLAN

1

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NOTE:
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WHITEWATER, WI 53190
FA#: 11655718
FAA STUDY #: 2024-AGL-23880E

SHEET TITLE
GRADING PLAN

SHEET NUMBER
C-7.1

LEGEND

	PROPOSED SILT FENCE
	PROPOSED GRADE
	EXISTING GRADE
	TOP OF PAVEMENT/PAD
	TOP OF FOUNDATION
	GRADE

0 4' 8' 16' SCALE: 1/16" = 1'-0" (24x36)
(OR) 1/32" = 1'-0" (11x17)

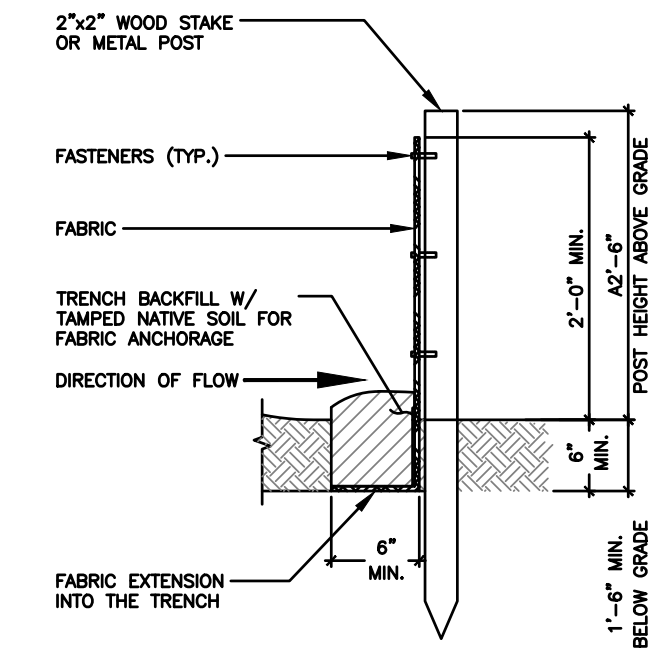
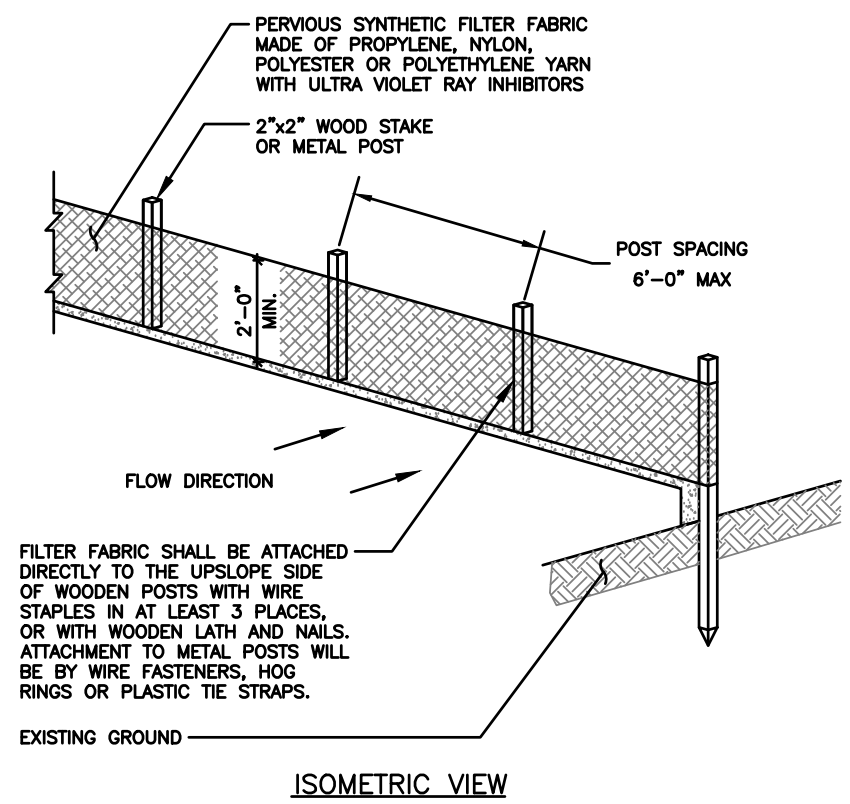


GRADING PLAN

1

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- 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.
- 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
- SOIL EROSION CONTROL MEASURES SHALL BE INCLUDED IN CONTRACTOR BID AND PRICING
- THE ENTIRE SITE SHALL BE GRADED SO THAT NO STORM WATER RUNOFF AND LIKEWISE SOIL SEDIMENT CAN FLOW UNRESTRICTED FROM THE SITE
- ALL INLETS, STRUCTURES, PIPES, SWALES, AND ROADS SHALL BE KEPT CLEAN AND FREE OF DIRT AND SILT
- MAINTAIN SOIL EROSION CONTROL MEASURES THROUGH THE DURATION OF THIS PROJECT
- SEDIMENT DEPOSITS SHALL BE REMOVED WHEN REACHING ONE HALF THE HEIGHT OF THE BARRIER
- ALL SOIL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED EARTH HAS BEEN PAVED OR VEGETATED
- 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
- 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
- FINAL RESTORATION SHALL BE COMPLETED PRIOR TO CLOSEOUT, PROVIDING 6" OF TOPSOIL RAKED TO A UNIFORM SURFACE.
- SOIL EROSION CONTROL MEASURES SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN PROJECT IS COMPLETED

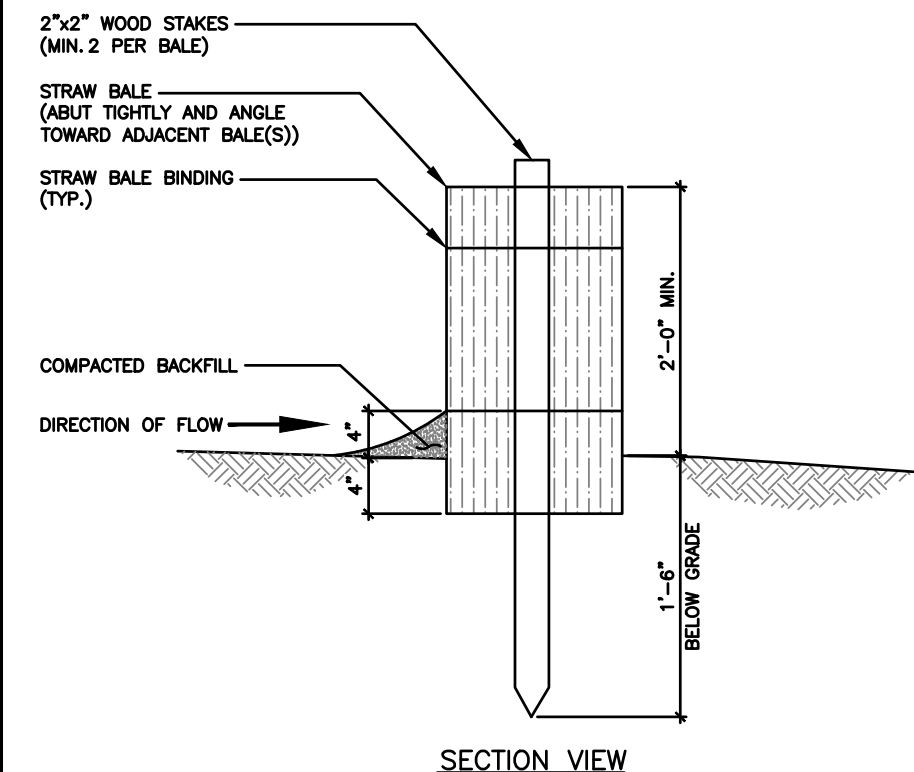


SOIL EROSION & SEDIMENT CONTROL NOTES

SCALE N.T.S. 4

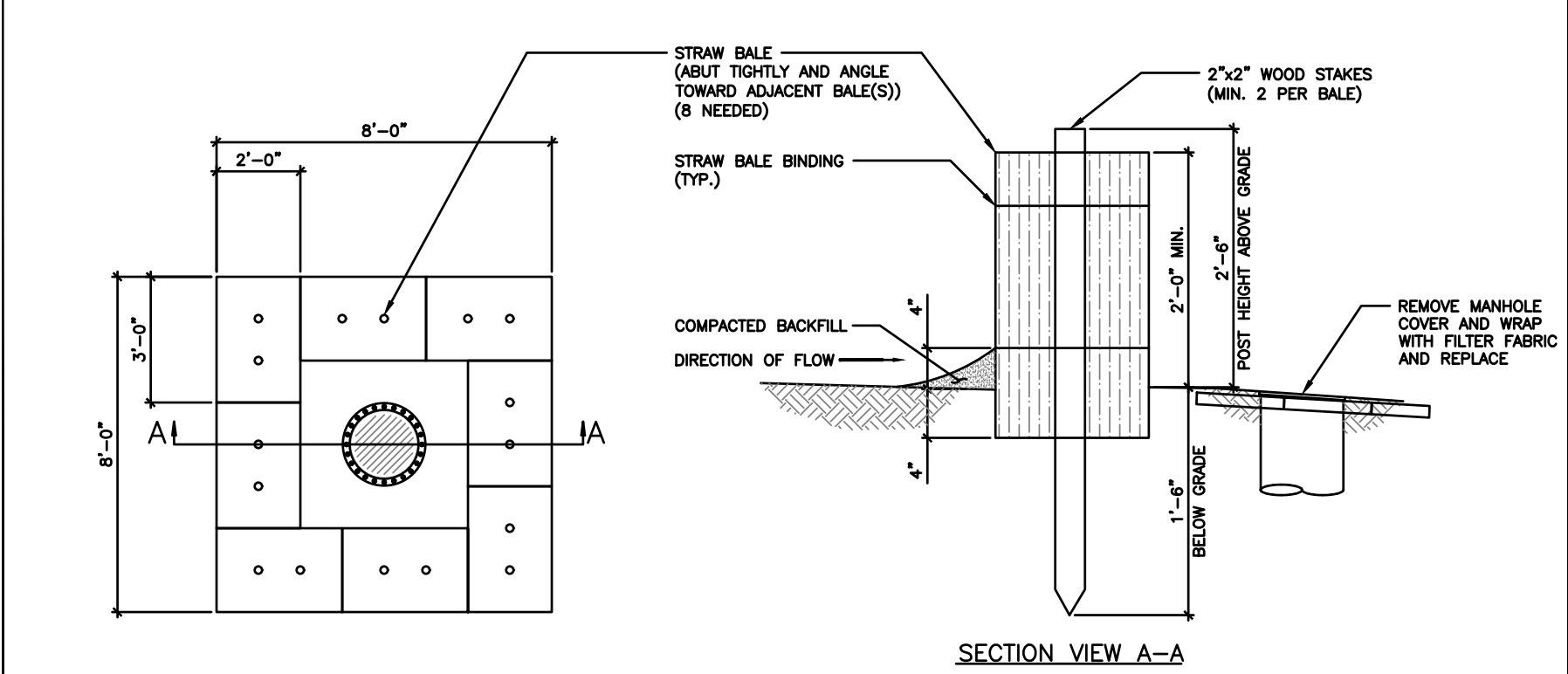
EROSION CONTROL - SILT FENCE

SCALE N.T.S. 2



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



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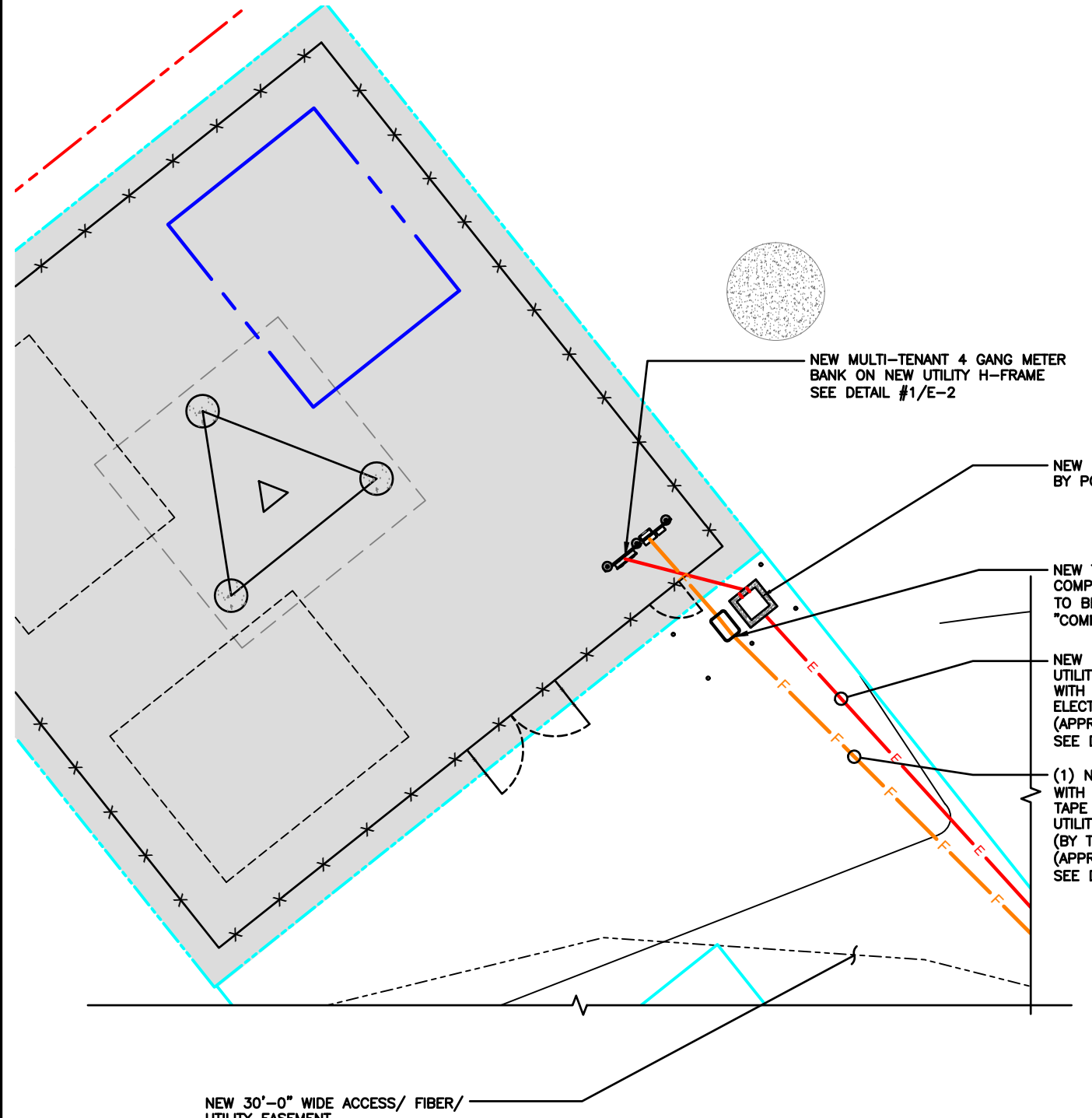
SHEET TITLE
EROSION CONTROL
DETAILS

SHEET NUMBER
C-8

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NOTE:
 FIBER HANDHOLE REQUIRED EVERY 500' MAXIMUM.
 POWER HANDHOLE REQUIRED EVERY 300' MAXIMUM.
 GENERAL CONTRACTOR SHALL VERIFY AND CONFIRM
 ADDITIONAL REQUIREMENTS WITH LOCAL JURISDICTION
 PRIOR TO INSTALLATION.

NOTE:
 EXACT SOURCE AND ROUTING OF POWER AND FIBER
 TO BE DETERMINED UPON COORDINATION WITH POWER
 AND FIBER COMPANIES. GENERAL CONTRACTOR TO
 CONFIRM & OBTAIN COPY OF THE UTILITY
 COORDINATION WITH TILLMAN CONSTRUCTION MANAGER
 PRIOR TO INSTALLATION



NEW MULTI-TENANT 4 GANG METER
 BANK ON NEW UTILITY H-FRAME
 SEE DETAIL #1/E-2

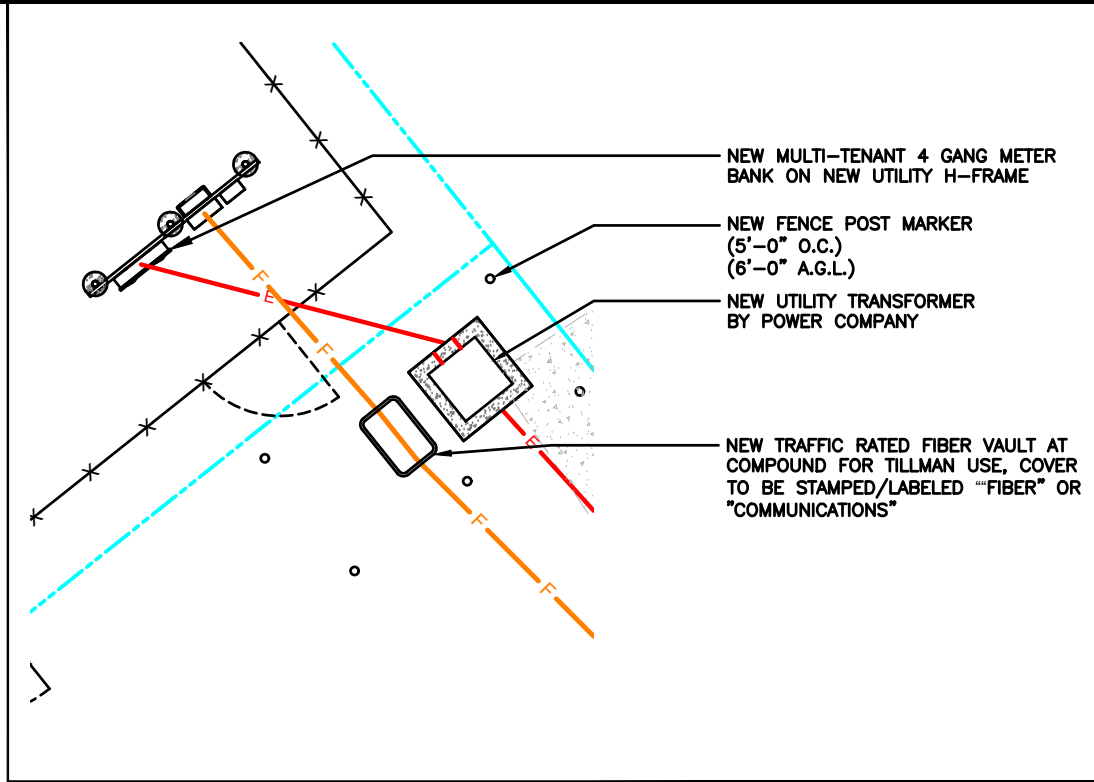
NEW UTILITY TRANSFORMER
 BY POWER COMPANY

NEW TRAFFIC RATED FIBER VAULT AT
 COMPOUND FOR TILLMAN USE, COVER
 TO BE STAMPED/LABELED "FIBER" OR
 "COMMUNICATIONS"

NEW ELECTRICAL SERVICE FROM NEW
 UTILITY H-FRAME TO ROW, COORDINATE
 WITH LOCAL UTILITY COMPANY FOR
 ELECTRICAL SERVICE REQUIREMENTS
 (APPROX. ±580')
 SEE DETAIL #2/E-3

(1) NEW 4" UNDERGROUND CONDUITS
 WITH (3) 1-1/4" INNERDUCT AND MULE
 TAPE FOR NEW FIBER SERVICE FROM
 UTILITY H-FRAME TO HAND HOLE AT ROW
 (BY TILLMAN CONTRACTOR)
 (APPROX. ±575')
 SEE DETAIL #2/E-3

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

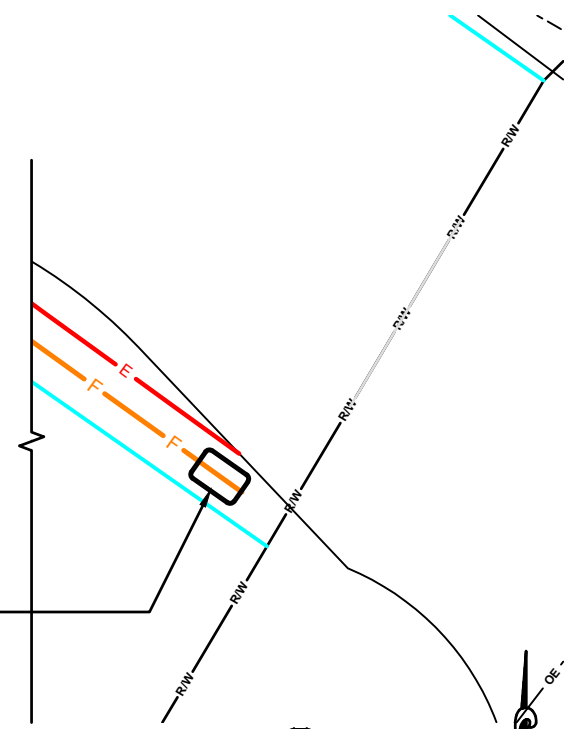


ENLARGED VIEW OF H-FRAME

SCALE
 N.T.S. **2**

FIBER ROUTE FROM THE ROW TO COMPOUND SHALL
 BE OWNED BY TILLMAN AND VAULTS SHALL BE
 LABELED "FIBER" OR "TELECOMMUNICATIONS" TO AVOID
 CONFUSION BETWEEN CARRIERS AND PROVIDERS.
 A SECOND CONDUIT CAN BE PROVIDED FROM ROW
 MMP TO CARRIER LEASE AREA BY CARRIER

NEW TRAFFIC RATED FIBER VAULT
 AT ROW FOR TILLMAN USE, COVER
 TO BE STAMPED/LABELED "FIBER"
 OR "COMMUNICATIONS"



Know what's below.
 Call before you dig.



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

1

UTILITY PLAN



WESTCHESTER SERVICES LLC
 WI FIRM 4897-11
 604 FOX GLEN
 BARRINGTON, IL 60010
 PHONE: 847-277-0070
 EMAIL: AE@Westchesterservices.com

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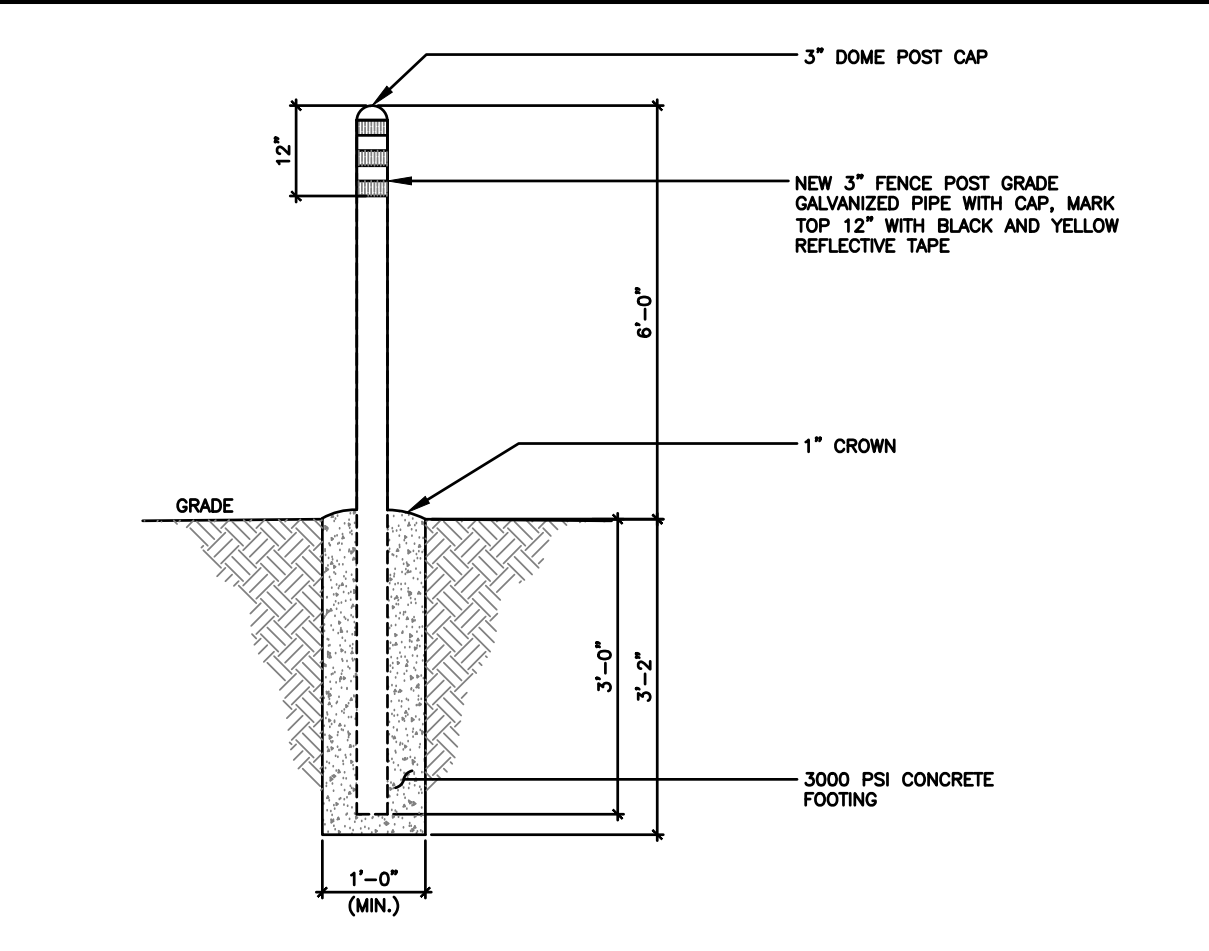
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SHEET TITLE
UTILITY PLAN

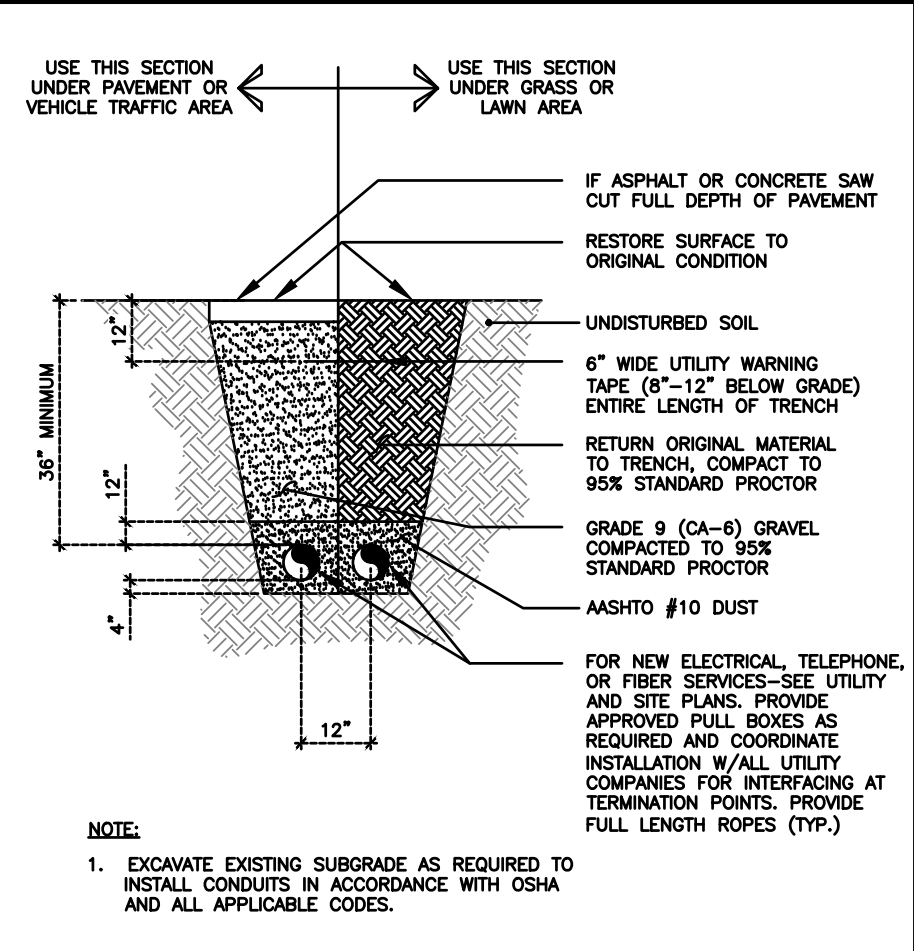
SHEET NUMBER
E-1

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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 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.

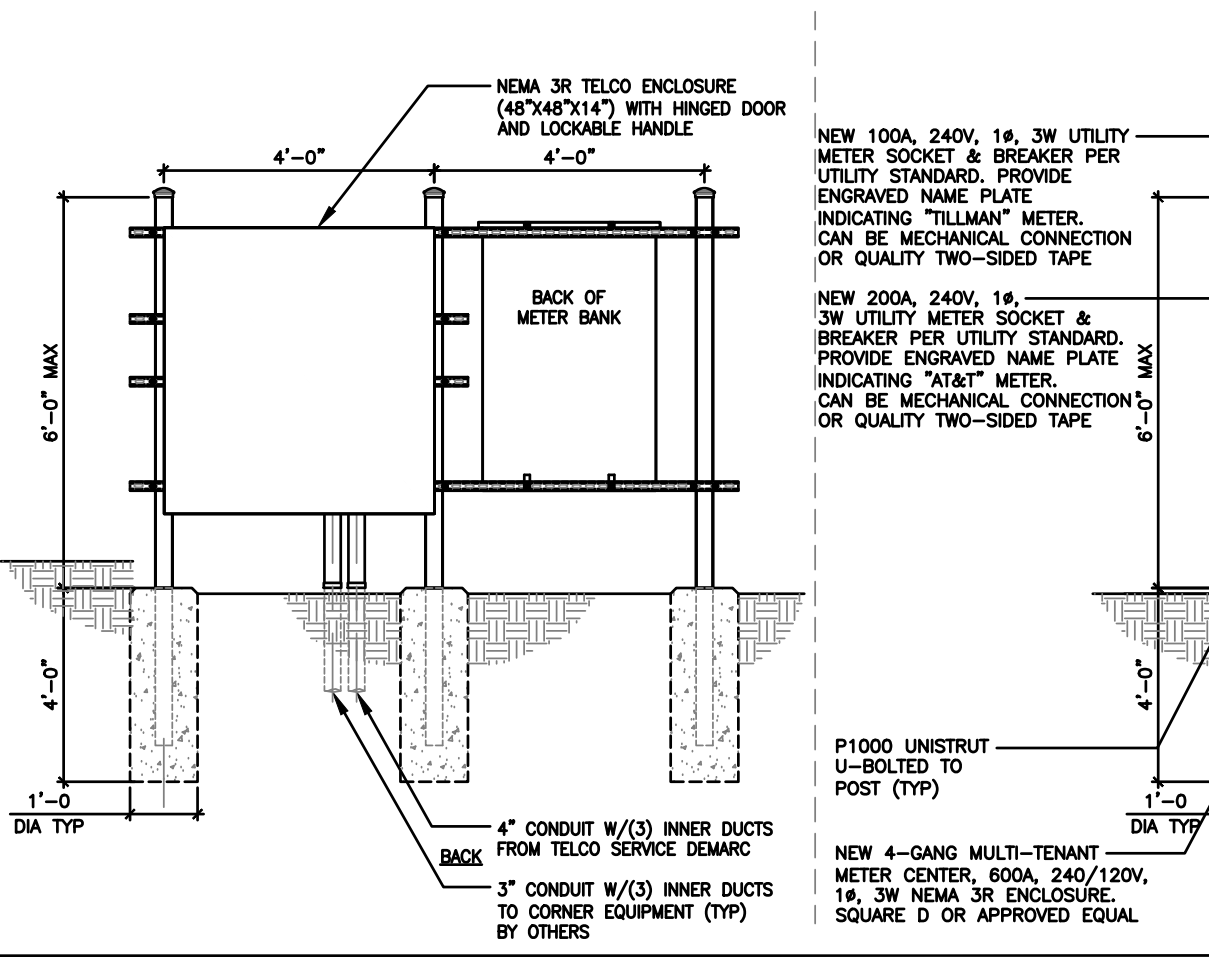


FENCE POST MARKER DETAIL SCALE N.T.S. **3**

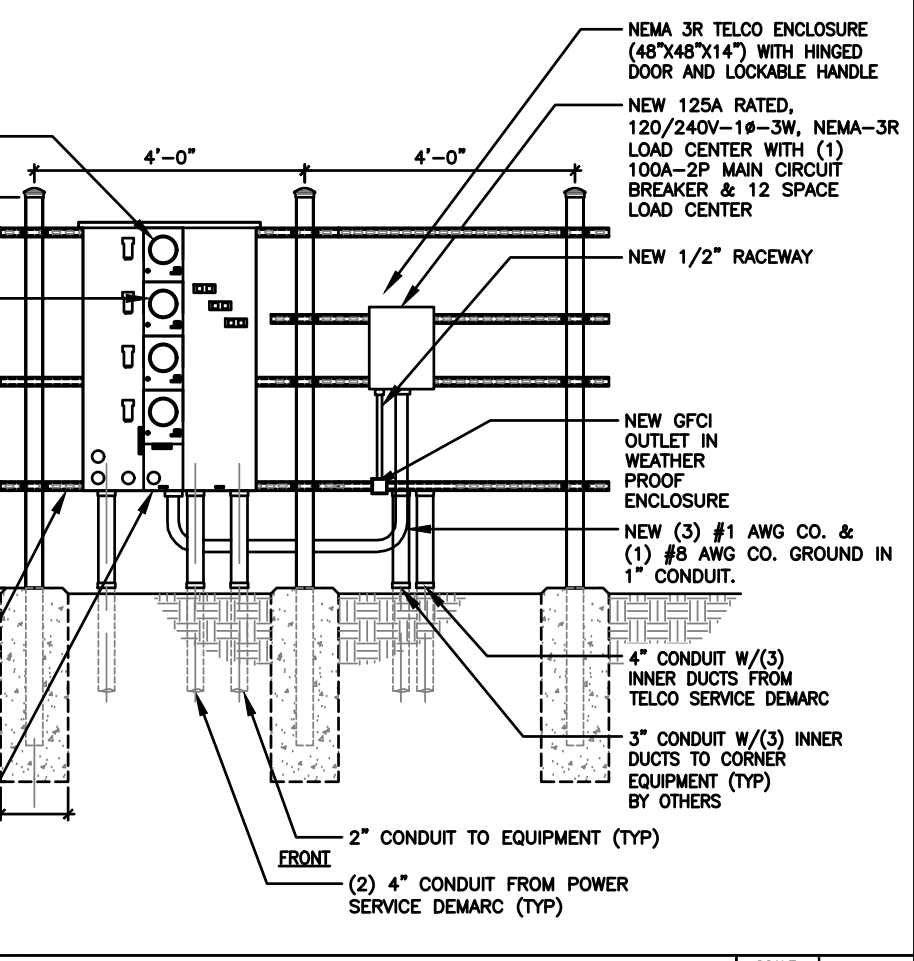


TYPICAL TRENCH DETAIL SCALE N.T.S. **2**

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.



UTILITY FRAME DETAIL SCALE N.T.S. **4**



ENLARGED UTILITY PLAN SCALE N.T.S. **1**

ELECTRICAL NOTES **4**



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DRAWN BY: DWM
CHECKED BY: MC

REV	DATE	DESCRIPTION
A	03/04/24	PRELIMINARY CD
B	03/06/24	PRELIMINARY CD

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TILLMAN OPP# TI-OPP-29018
SITE NAME: WHITEWATER
SITE ADDRESS:
1002 S JANESVILLE STREET
WHITEWATER, WI 53190
FA# 11655718
FAA STUDY #: 2024-AGL-23880E

SHEET TITLE
ENLARGED UTILITY PLAN

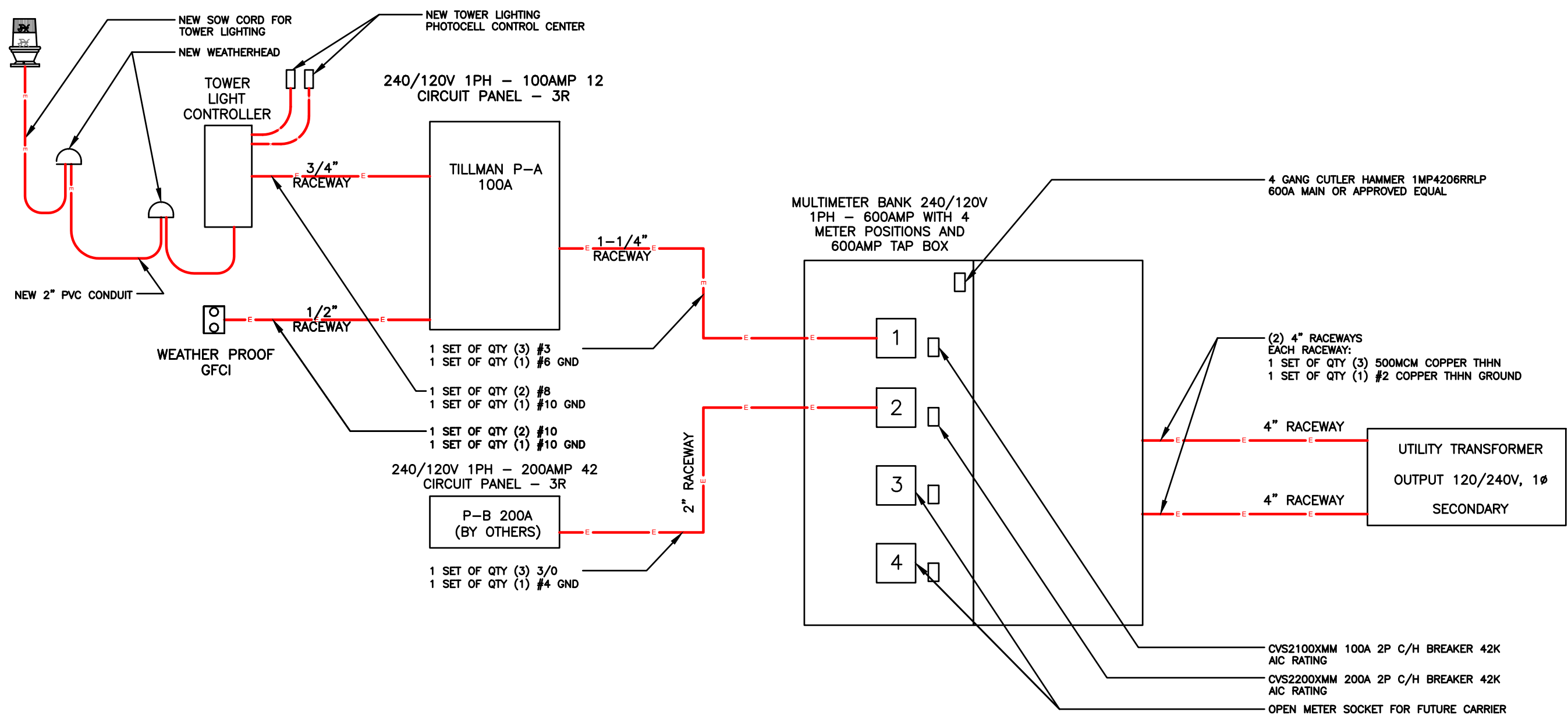
SHEET NUMBER
E-2

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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			
DESCRIPTION	QTY.	UNIT V.A.	A	B														PHASE	A	B
1	GFCI RECEPTACLES	1	600	600	BLK		X		10	10	20									
3	TOWER LIGHT	1	1600	1600	RED	X			8	10	20									
5	TOWER LIGHT	1	1600	1600	BLK	X			8	10	20									
7	SPARE	1			RED															
9	SPARE	1			BLK															
11	SPARE	1			RED															
SUBTOTAL CONTINUOUS			1600	1600																
SUBTOTAL NON-CONTINUOUS			600	-																
SUBTOTAL CONTINUOUS															TOTAL AMPS CONTINUOUS x 1.25			4000		
SUBTOTAL NON-CONTINUOUS															TOTAL AMPS NON-CONTINUOUS			600		
SUBTOTAL SUB-PANEL															TOTAL AMPS SUB-PANEL			4600		
PANEL DESIGNATION: ELECTRICAL PANEL (PA)												TOTAL KVA		4.60						
MAIN LUGS: N/A			MAIN BREAKER: 100 AMP			BRANCH BREAKER TYPE: SIEMENS - BL												TOTAL AMPS		19.16
VOLTAGE: 120/240			CYCLE: 60			PHASE: 1			WIRES: 3			MAIN COPPER BUS: 100 AMPS			NEUTRAL: 100 AMPS					

TILLMAN P - A PANEL SCHEDULE

2



ELECTRICAL SINGLE LINE DIAGRAM

1



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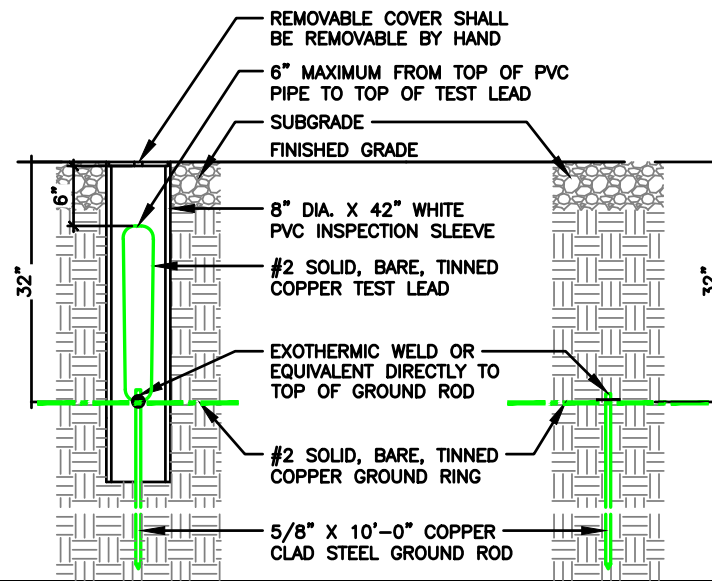
TILLMAN OPP# TI-OPP-20018
SITE NAME: WHITEWATER
SITE ADDRESS:
1002 S JANESVILLE STREET
WHITEWATER, WI 53190
FA#: 11655718
FAA STUDY #: 2024-AGL-23880E

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 AT&T 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 LIQUID TIGHT CONDUITS, A MINIMUM 6" ABOVE AND BELOW GRADE/ GRAVEL SURFACE.
- 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.



GROUND WELL, ROD, AND TEST WELL DETAIL

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

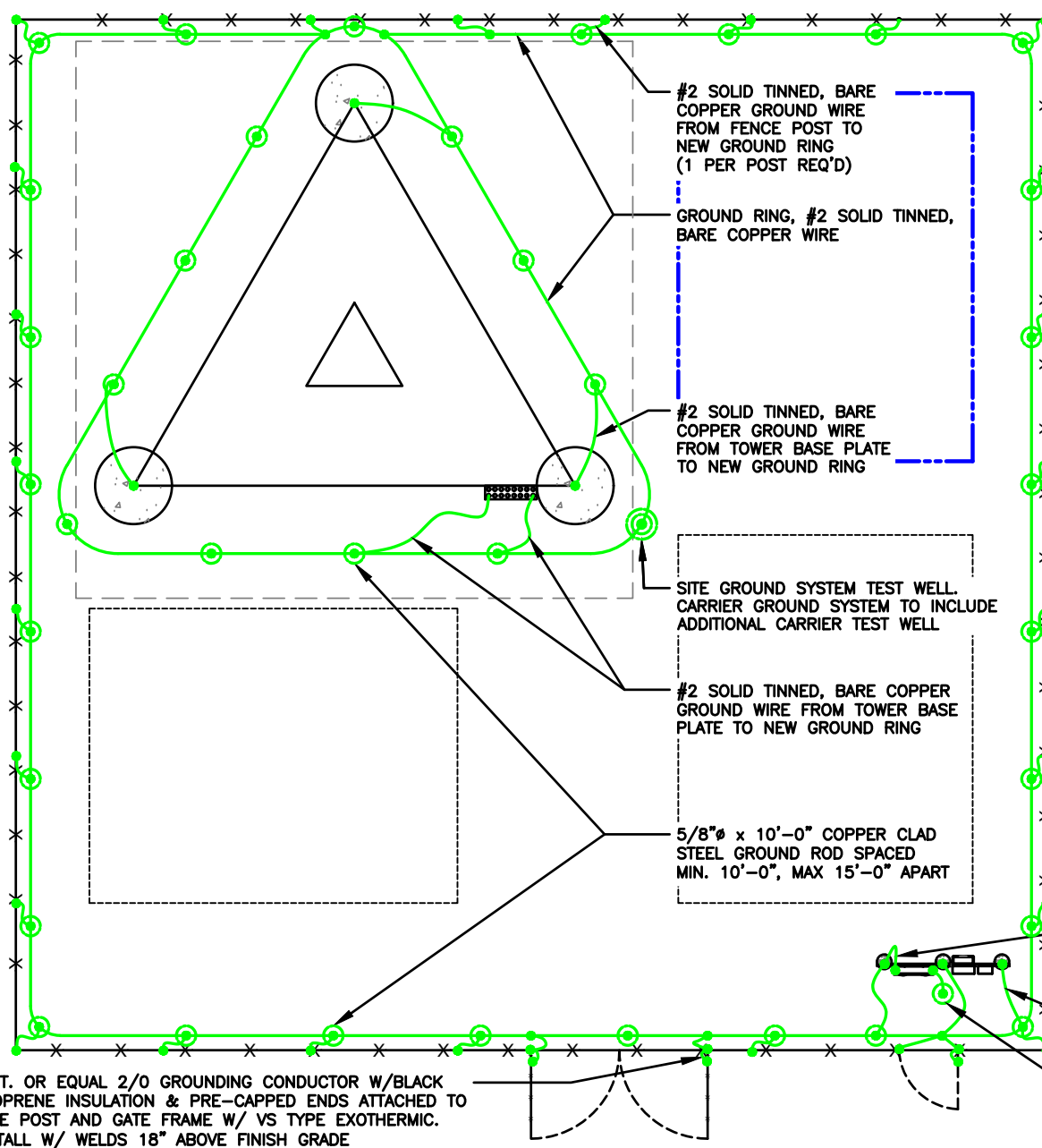
NOTE:
GROUND RODS MAY BE COPPER CLAD STEEL OR SOLID COPPER

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

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
- 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.

A.L.T. OR EQUAL 2/0 GROUNDING CONDUCTOR W/BLACK NEOPRENE INSULATION & PRE-CAPPED ENDS ATTACHED TO GATE POST AND GATE FRAME W/ VS TYPE EXOTHERMIC. INSTALL W/ WELDS 18" ABOVE FINISH GRADE

GROUNDING NOTES SCALE N.T.S. **3**

GROUNDING PLAN AND DETAILS

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

TILLMAN INFRASTRUCTURE

LCC TELECOM SERVICES

WESTCHESTER SERVICES LLC
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TILLMAN OPP# **TI-OPP-29018**
SITE NAME: **WHITWATER**
SITE ADDRESS:
1002 S JANESVILLE STREET
WHITWATER, WI 53190
FA#: **11655718**
FAA STUDY #: **2024-AGL-23880E**

GROUNDING PLAN & DETAILS

SHEET NUMBER
G-1

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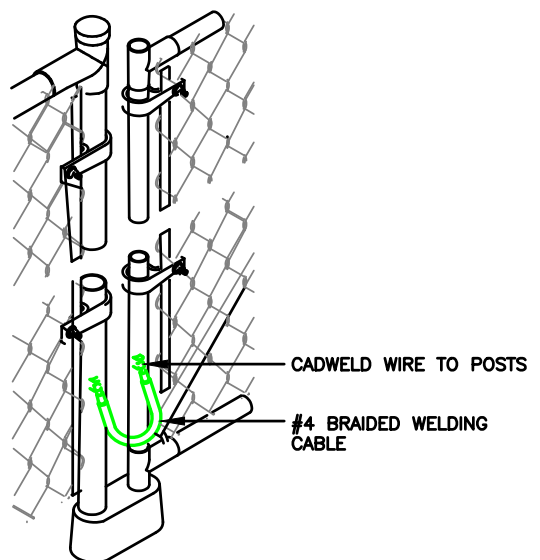
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SHEET TITLE
GROUNDING PLAN & RISER DIAGRAM

SHEET NUMBER
G-2

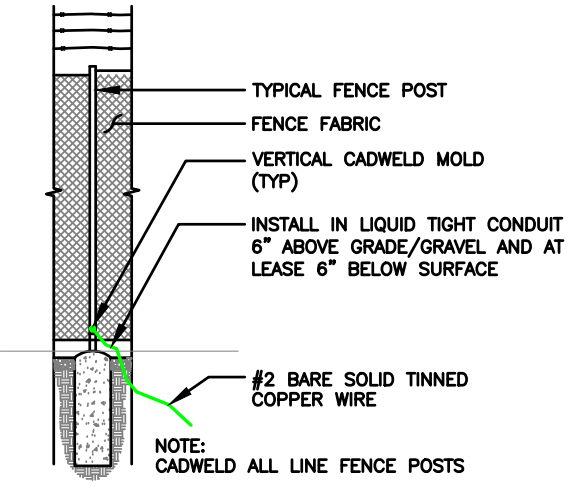
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N.T.S. **2**



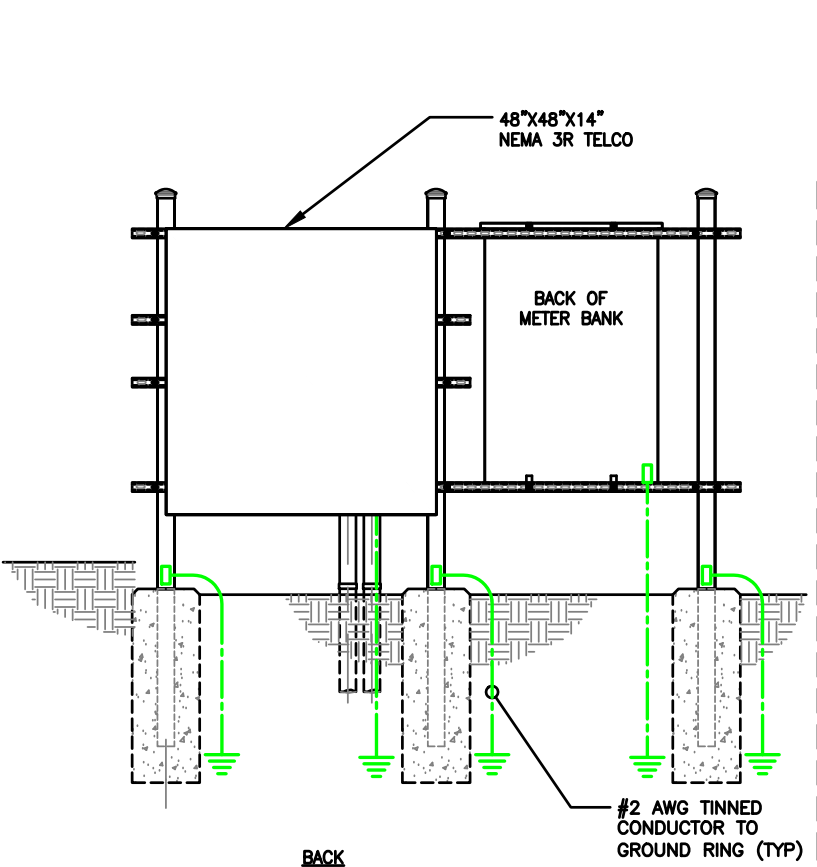
GATE GROUNDING DETAIL

SCALE
N.T.S. **4**



TYPICAL FENCE POST GROUNDING

SCALE
N.T.S. **3**

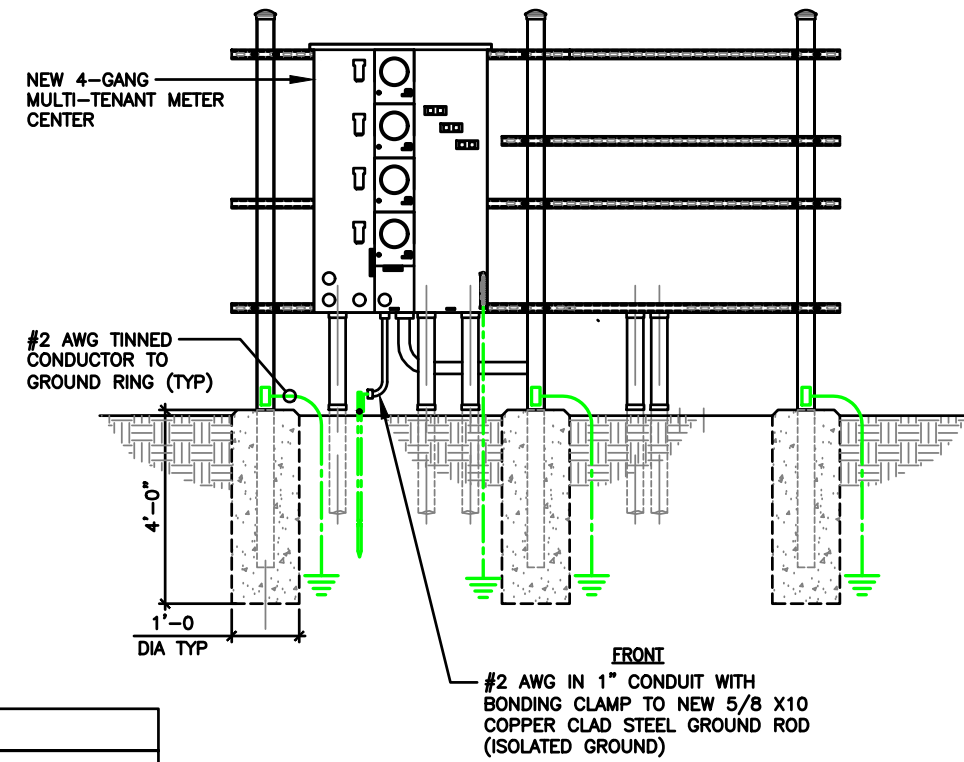


GROUNDING LEGEND

	MECHANICAL CONNECTION		PROPOSED GROUND WIRING
	COMPRESSION FITTING CONNECTION		EXISTING GROUND WIRING
	EXOTHERMIC WELD CONNECTION		TINNED COPPER GROUND BAR
	5/8\"/>		
	5/8\"/>		
	CGB		COLLECTOR GROUND BAR
	MGB		MAIN GROUND BAR

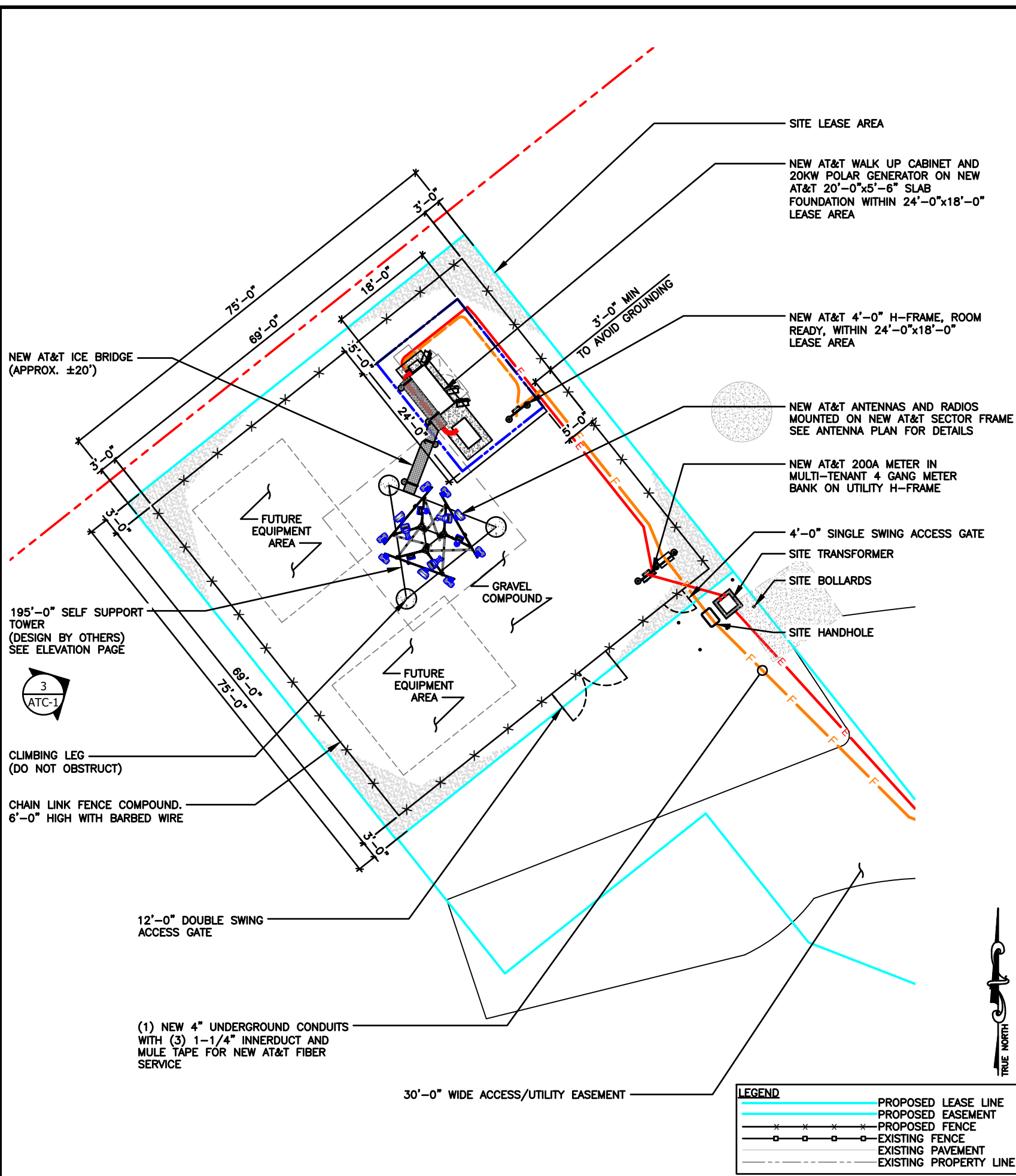
H-FRAME GROUNDING

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

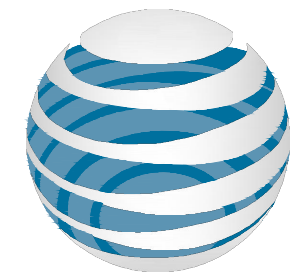


NOTE:
2 BOLT MECHANICAL LUG CONNECTION AT ALL EQUIPMENT GROUND POINT. ADD NON OX COMPOUND

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ENLARGED SITE PLAN



AT&T

AT&T SITE NUMBER: WI2696
AT&T SITE NAME: WHITEWATER
FA CODE: 11655718
SITE ADDRESS: 1002 S JANESVILLE STREET
WHITEWATER, WI 53190
TILLMAN SITE # TI-OPP-29018

SITE INFORMATION

SITE ADDRESS:	1002 S JANESVILLE STREET WHITEWATER, WI 53190	LANDLORD OWNER:	HATCHETT ENTERPRISES LLC 1002 S JANESVILLE STREET WHITEWATER, WI 53190
LATITUDE (NAD 83):	42°49'08.8617"N (42.81912825°)	TOWER OWNER:	TILLMAN INFRASTRUCTURE 152 W. 57TH STREET NEW YORK, NEW YORK 10011
LONGITUDE (NAD 88):	88°45'13.7991"W (-88.75383307°)	STRUCTURE TYPE:	SELF SUPPORT TOWER
GROUND ELEVATION:	850.37' (AMSL)	STRUCTURE HEIGHT:	195'-0" (AGL)
JURISDICTION:	THE CITY OF WHITEWATER	TILLMAN SITE #:	TI-OPP-29018
ZONING:	N/A		
PARCEL/MAP NUMBER:	WUP 00341		

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 AND 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-4	RRH, ANTENNA AND EQUIPMENT SPECIFICATIONS
AT-E-1	ENLARGED UTILITY PLAN
AT-E-2	ELECTRICAL PANEL SCHEDULE, DIAGRAM AND NOTES
AT-E-3	DC/FIBER SYSTEM DIAGRAM
AT-E-4	DC WIRING DIAGRAM
AT-G-1	GROUNDING PLAN AND 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 STATE PLUMBING CODE
- 2023 WISCONSIN STATE FIRE CODE
- AMERICAN CONCRETE INSTITUTE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- MANUAL OF STEEL CONSTRUCTION 13TH EDITION
- ANSII/TIA-222-H
- TIA 607
- INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEERING 81
- IEEE C2 NATIONAL ELECTRIC SAFETY CODE LATEST EDITION
- TELECORDIA GR-1275



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WI FIRM 4897-11

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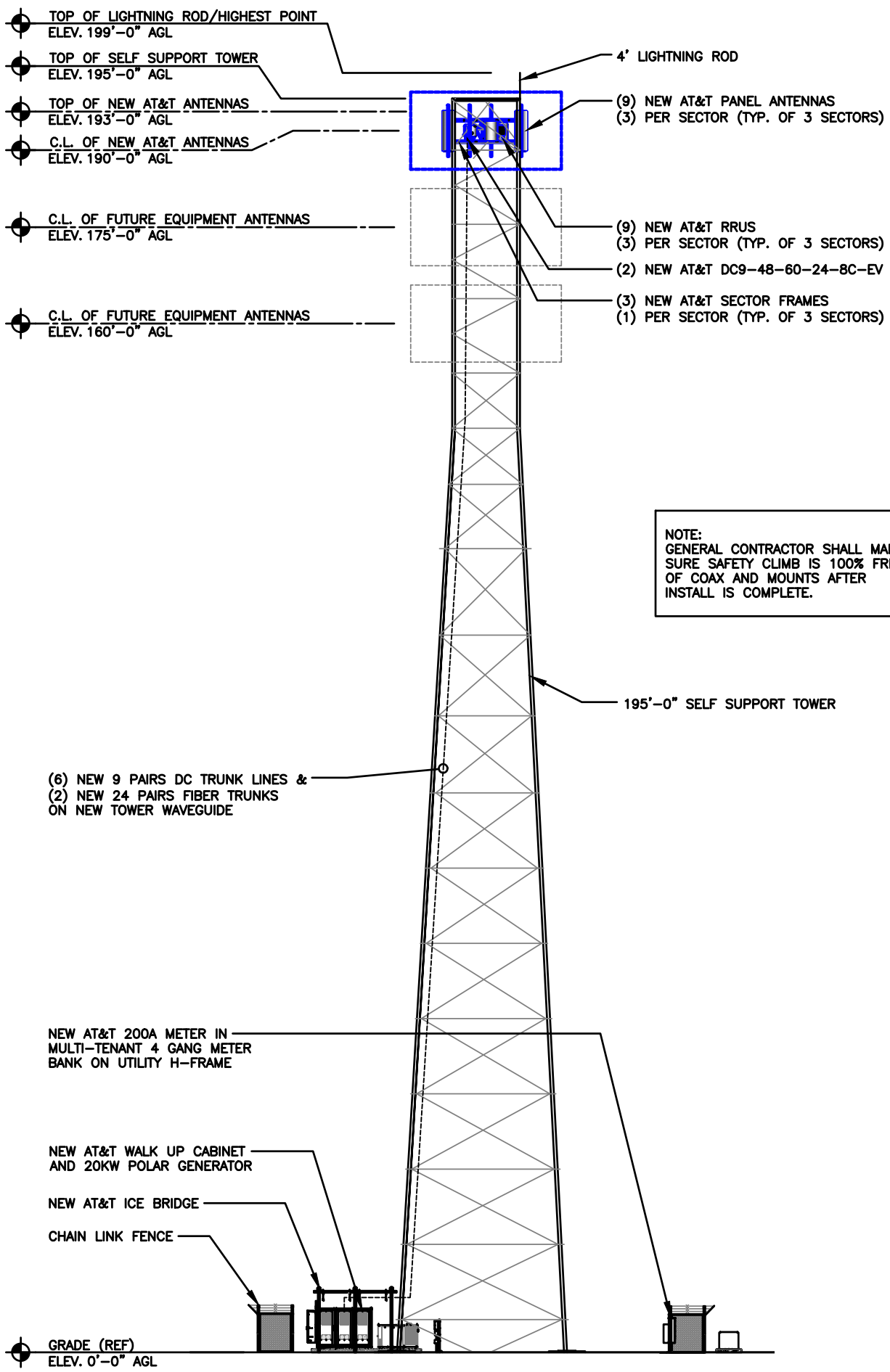
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SHEET TITLE
TITLE SHEET & OVERALL SITE PLAN

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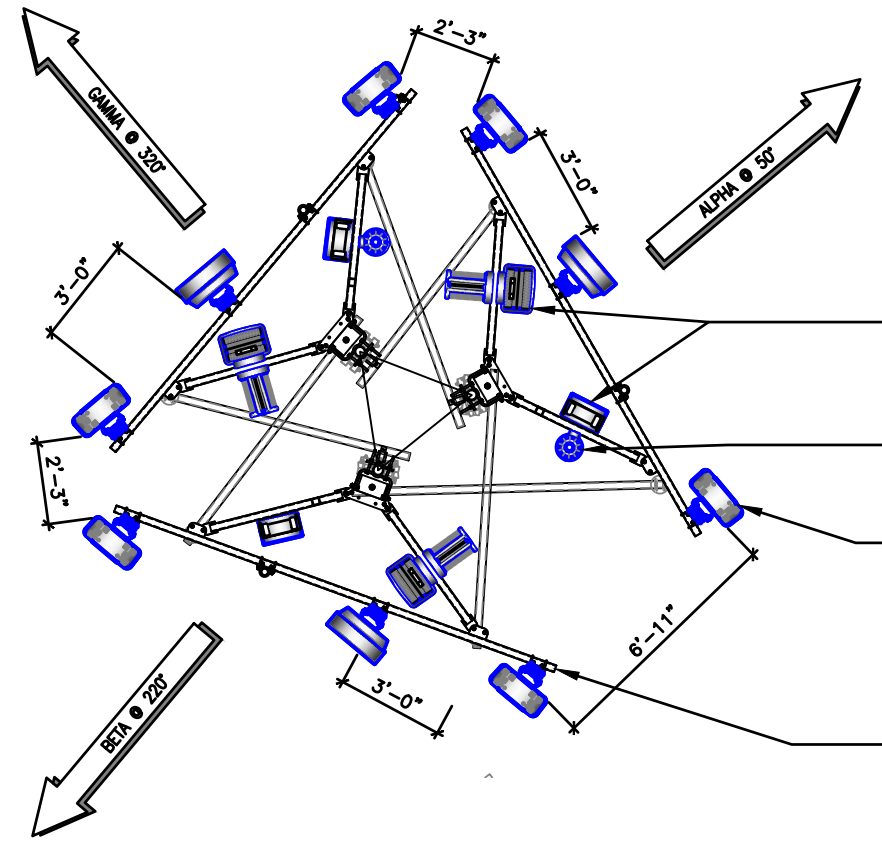


NOTE:
GENERAL CONTRACTOR SHALL MAKE SURE SAFETY CLIMB IS 100% FREE OF COAX AND MOUNTS AFTER INSTALL IS COMPLETE.

ELEVATION

SCALE N.T.S. **3**

ANTENNA LAYOUT (SELF SUPPORT)



NOTE:
ALL RADIOS MUST BE INSTALLED ON ANTENNA SECTOR FRAME ARM. DO NOT INSTALL DIRECTLY BEHIND ANTENNA.

(9) NEW AT&T RRUS (3) PER SECTOR (TYP. OF 3 SECTORS) SEE DETAIL #5, #6 & #7/AT-C-4

(2) NEW AT&T DC9-48-60-24-8C-EV RAYCAP SEE DETAIL #1/AT-C-4

(9) NEW AT&T PANEL ANTENNAS (3) PER SECTOR (TYP. OF 3 SECTORS) SEE DETAIL #3/AT-C-2

(3) NEW AT&T SECTOR FRAMES (1) PER SECTOR (TYP. OF 3 SECTORS) SEE DETAIL #1/AT-C-3

TRUE NORTH

ANTENNA AND RRH SCHEDULE BASED ON AT&T RFDS DATED: 04/24/23

SECTOR	ANTENNA	TECH	ANTENNA @ HEIGHT	AZIMUTH	RRU MODEL
ALPHA	COMMSCOPE ANTENNAS NNH4-65B-R6H4	LTE 700 5G 850 LTE 1900 5G 1900 5G AWS LTE AWS	190'-0"±	50°	RRUS 4449 B5/B12 RRUS 8843 B2/B66A
	ERICSSON AIR 6449 B77D	5G CBAND	190'-0"±	50°	-
	EMPTY	-	-	-	-
BETA	COMMSCOPE ANTENNAS NNH4-65B-R6H4	LTE 700	190'-0"±	50°	RRUS 4478 B14
	COMMSCOPE ANTENNAS NNH4-65B-R6H4	LTE 700 5G 850 LTE 1900 5G 1900 5G AWS LTE AWS	190'-0"±	220°	RRUS 4449 B5/B12 RRUS 8843 B2/B66A
	ERICSSON AIR 6449 B77D	5G CBAND	190'-0"±	220°	-
GAMMA	COMMSCOPE ANTENNAS NNH4-65B-R6H4	-	190'-0"±	220°	RRUS 4478 B14
	COMMSCOPE ANTENNAS NNH4-65B-R6H4	LTE 700 5G 850 LTE 1900 5G 1900 5G AWS LTE AWS	190'-0"±	320°	RRUS 4449 B5/B12 RRUS 8843 B2/B66A
	ERICSSON AIR 6449 B77D	5G CBAND	190'-0"±	320°	-
	EMPTY	-	-	-	-
	COMMSCOPE ANTENNAS NNH4-65B-R6H4	-	190'-0"±	320°	RRUS 4478 B14

CABLE COUNT

QUANTITY	CABLE TYPE
6	6 CONDUCTOR (3 PR) 3/4" DC CABLE
2	36 FIBER (24 PR) 10MM FIBER
2	DC9 SQUIDS

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A	03/04/24	PRELIMINARY CD
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EXPIRE DATE: 06/30/25

AT&T SITE # W12696
AT&T SITE NAME: WHITEWATER
FA # 11655718
SITE ADDRESS:
1002 S JANESVILLE STREET
WHITEWATER, WI 53190
FAA STUDY #: 2024-AGL-23880E

SHEET TITLE
ELEVATION, ANT.
PLAN & SCHEDULE

SHEET NUMBER
AT-C-1

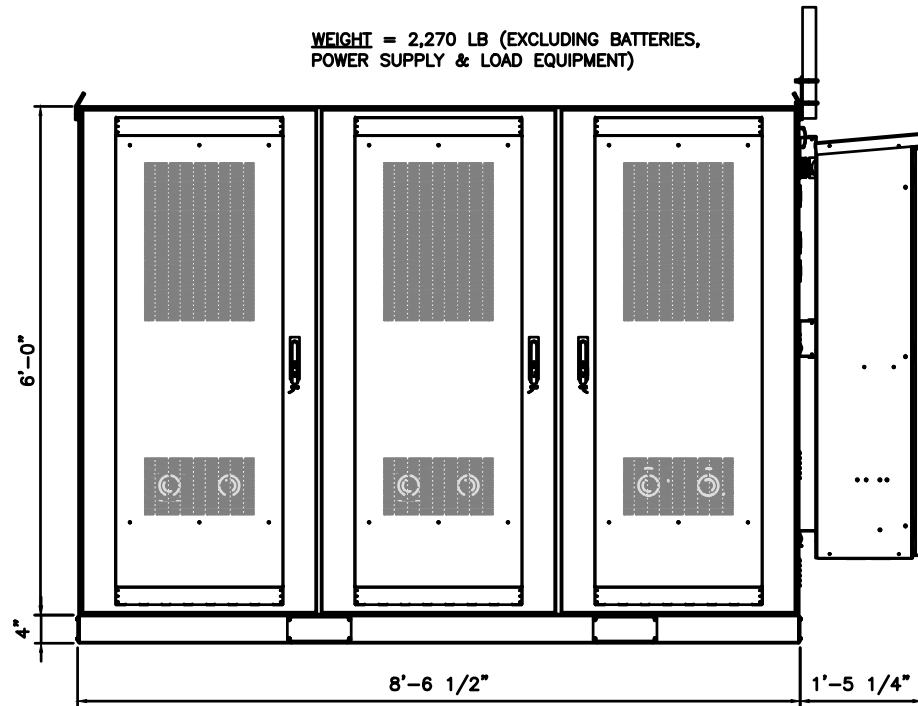
ANTENNA AND RRH SCHEDULE

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

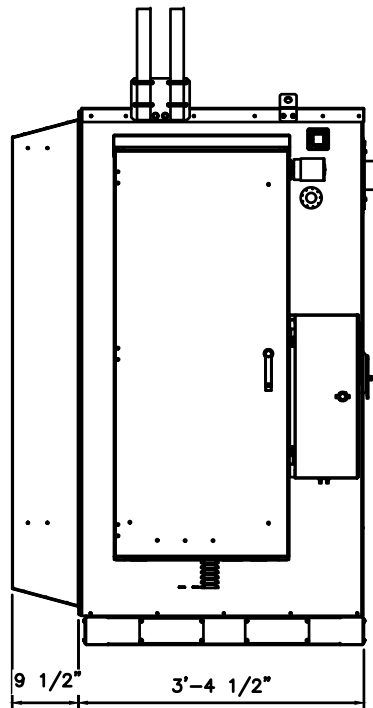


DRAWN BY: DWM
CHECKED BY: MC

WEIGHT = 2,270 LB (EXCLUDING BATTERIES, POWER SUPPLY & LOAD EQUIPMENT)



FRONT VIEW



SIDE VIEW

NOTE:
ALL CONDUIT FROM BELOW GRADE TO ABOVE GRADE
MUST INCLUDE FROST SLEEVES TO PREVENT FROST
DAMAGE TO CONDUIT OR EQUIPMENT.

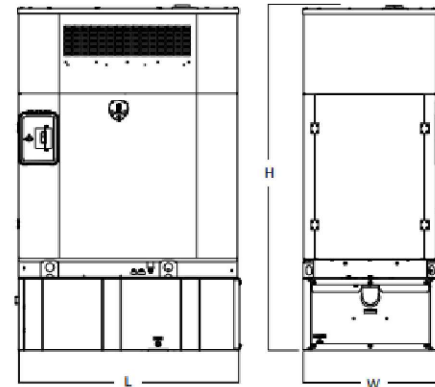
SDC020 | 2.2L | 20 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency



DIMENSIONS AND WEIGHTS*



COMPACT VARIANT

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	-	56.0 (1,422) x 34.5 (876) x 68.9 (1,749)	1,465 (664)
31.9	51 (193)	56.0 (1,422) x 34.5 (876) x 87.3 (2,215)	1,914 (868)
64.4	103 (390)	56.0 (1,422) x 34.5 (876) x 99.1 (2,515)	2,090 (948)

GENERAC 20KW NEQ.53187

OPERATING DATA

POWER RATINGS

	Standby
Single-Phase 120/240 VAC @1.0pf	20 kW, 20 kVA Amps: 83
Three-Phase 120/208 VAC @0.8pf	20 kW, 25 kVA Amps: 70
Three-Phase 120/240 VAC @0.8pf	20 kW, 25 kVA Amps: 60
Three-Phase 277/480 VAC @0.8pf	20 kW, 25 kVA Amps: 30

MOTOR STARTING CAPABILITIES (skVA)

skVA vs. Voltage Dip					
120/240 VAC 1Ø	30%	277/480 VAC 3Ø	30%	208/240 VAC 3Ø	30%
A0035044N26	50	K0035124Y26	68	K0035124Y26	50

FUEL CONSUMPTION RATES*

Fuel Pump Lift- ft (m)	Diesel - gph (Lph)	
	Percent Load	Standby
3 (1)	25%	0.6 (2.1)
	50%	0.9 (3.5)
	75%	1.3 (4.8)
	100%	1.6 (6.2)
Total Fuel Pump Flow (Combustion + Return) - gph (Lph)	16.6 (63)	

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

	Standby
Air Flow (Fan Air Flow Across Radiator) - Compact	cfm (m³/min) 1,653 (46.8)
Coolant Flow	gpm (Lpm) 15.5 (58.7)
Coolant System Capacity	gal (L) 4.2 (16.0)
Heat Rejection to Coolant	BTU/hr (kW) 76,090 (22.3)
Inlet Air	cfm (m³/min) 1,714 (48.5)
Maximum Operating Ambient Temperature	°F (°C) 120 (50)
Maximum Operating Ambient Temperature (Before Derate)	See Bulletin No. 0199280SSD
Maximum Additional Radiator Backpressure	in H ₂ O (kPa) 0.5 (0.12)

COMBUSTION AIR REQUIREMENTS

Standby	
Flow at Rated Power - cfm (m³/min)	61.4 (1.7)

ENGINE

	Standby
Rated Engine Speed	RPM 1,800
Horsepower at Rated kW**	hp 32.5
Piston Speed	ft/min (m/min) 1,182 (360)
BMEP	psi (kPa) 105.8 (729.4)

EXHAUST

	Standby
Exhaust Flow (Rated Output)	cfm (m³/min) 160.4 (4.5)
Maximum Allowable Backpressure	inHg (kPa) 40.9 (138.5)
Exhaust Temperature (Rated Output)	°F (°C) 950 (510)

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.



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DRAWN BY: DWM

CHECKED BY: MC

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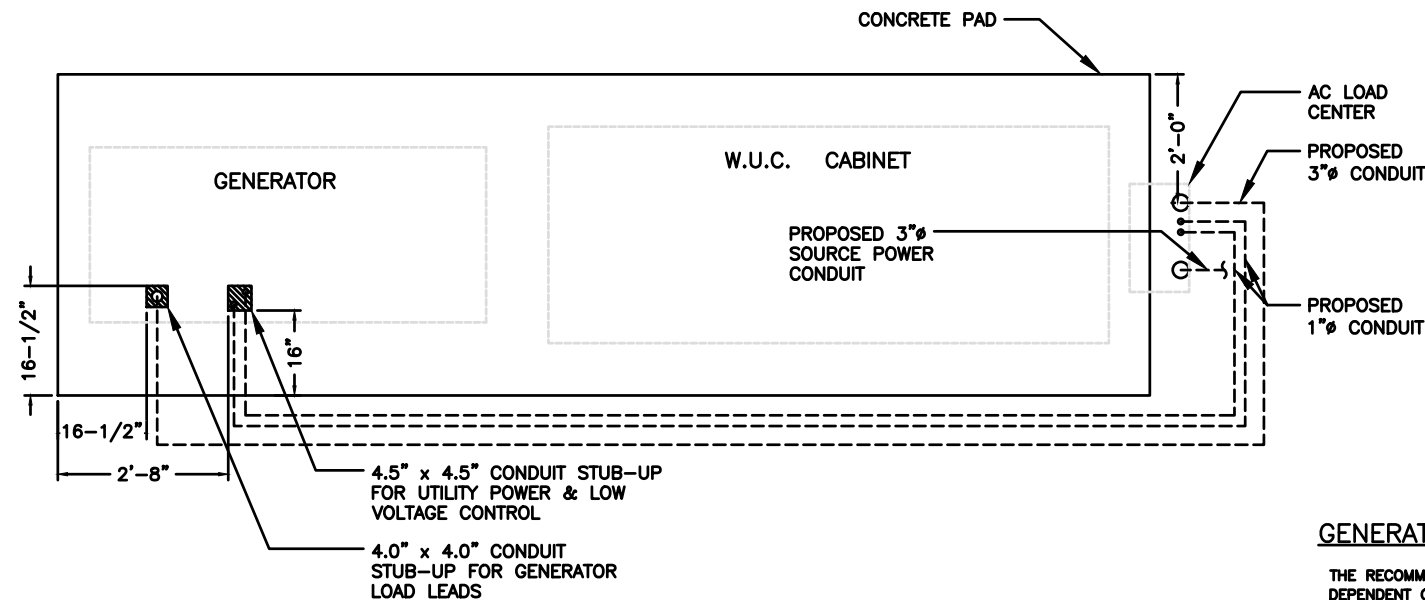
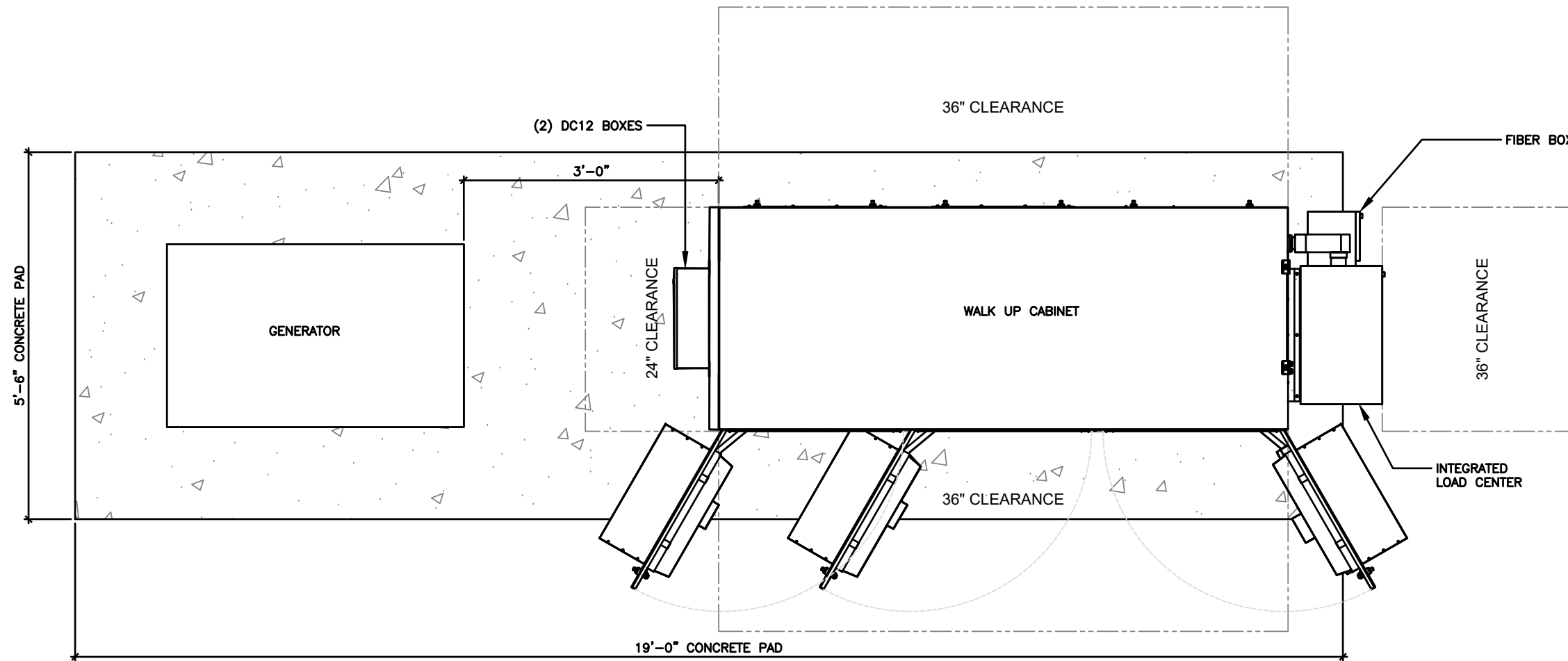
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WHITEWATER, WI 53190
FAA STUDY #: 2024-AGL-23880E

SHEET TITLE
**WALK UP CABINET
PAD DETAILS**

SHEET NUMBER
AT-C-2

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NOTE:
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GENERATOR INSTALLATION GUIDELINES:

- 1) EXHAUST IS AIMED AWAY FROM OR PARALLEL TO THE STRUCTURE.
- 2) EXHAUST IS NOT DIRECTED AT PLAY AREAS, PATIOS OR OTHER AREAS WHERE PEOPLE CONGREGATE.
- 3) THE NEAREST WINDOW, VENT, DOOR OR SIMILAR STRUCTURE OPENING IS AT LEAST 5 FEET FROM THE EXHAUST END OF THE SET.
- 4) SET HAS PROPER OFFSET FROM STRUCTURE.
- 5) WINDOWS & DOORS ON ADJACENT WALLS ARE CLOSED.
- 6) FURNACE AND OTHER SIMILAR INTAKES ARE AT LEAST 10 FEET FROM EXHAUST END OF SET.
- 7) 12" THICK CONCRETE PAD EXTENDING 6" BEYOND GENSET ON ALL SIDES.
- 8) WEED BARRIER & GRAVEL BED TO EXTEND 4 FT. FROM EXHAUST OUTLET. NO PLANTS, SHRUBS OR OTHER COMBUSTIBLES ALLOWED IN GRAVEL AREA.
- 9) SENSITIVE PLANTS, PATIO FURNITURE, ETC. ARE AT LEAST 8 FEET FROM EXHAUST END OF SET.
- 10) REFER TO OWNERS MANUAL FOR OTHER INSTALLATION CONSTRAINTS.

GENERATOR NOTES:

THE RECOMMENDED DISTANCE FROM A STRUCTURE IS DEPENDENT ON STATE AND LOCAL CODES. NFPA 37 (STANDARDS FOR THE INSTALLATION AND USE OF STATIONARY COMBUSTION ENGINES AND GAS TURBINES) STATES THIS DISTANCE SHOULD BE AT LEAST 5 FEET FROM A COMBUSTIBLE MATERIAL. FOR IN STALLATIONS NEAR NON-COMBUSTIBLE MATERIAL BE SURE TO LEAVE A MINIMUM DISTANCE OF 3 FEET TO ENSURE PROPER GENERATOR COOLING.



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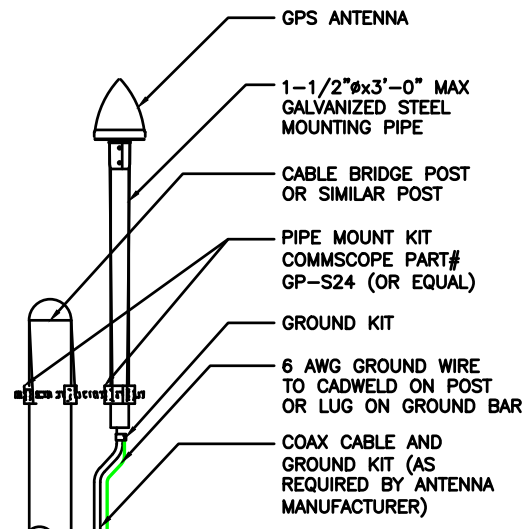
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FAA STUDY #: 2024-AGL-23880E

SHEET TITLE
WALK UP CABINET
PAD DETAILS

SHEET NUMBER
AT-C-2.1

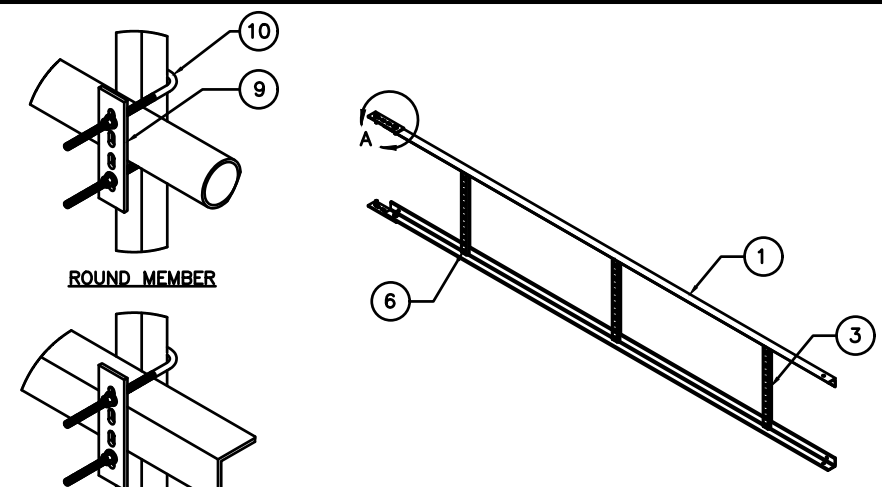
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GPS ANTENNA DETAIL

SCALE
N.T.S.

5

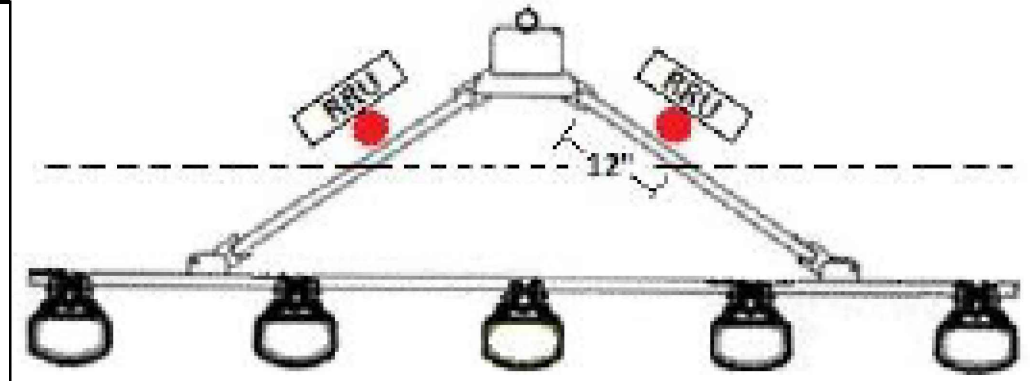


ITEM	PART NO.	DESCRIPTION	QTY.	WEIGHT
1	CL20.01	20" ANGLE SIDE RAIL	2	49.38 LBS
2	CL0620UH	HARDWARE KIT (ITEMS 3-10)	1	-
3	CL06R.01	20" LADDER RUNG	6	1.69 LBS
4	CL20H	HARDWARE KIT (ITEMS 5-7)	1	-
5	HKCLU.02	BACKING PLATE	2	0.95 LBS
6	GB-03145	3/8" X 1-1/2" GALV BOLT KIT	16	0.07 LBS
7	GWF-03	3/8" GALV 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

CABLE LADDER DETAIL SABRE # C20128021DP

SCALE
N.T.S.

3

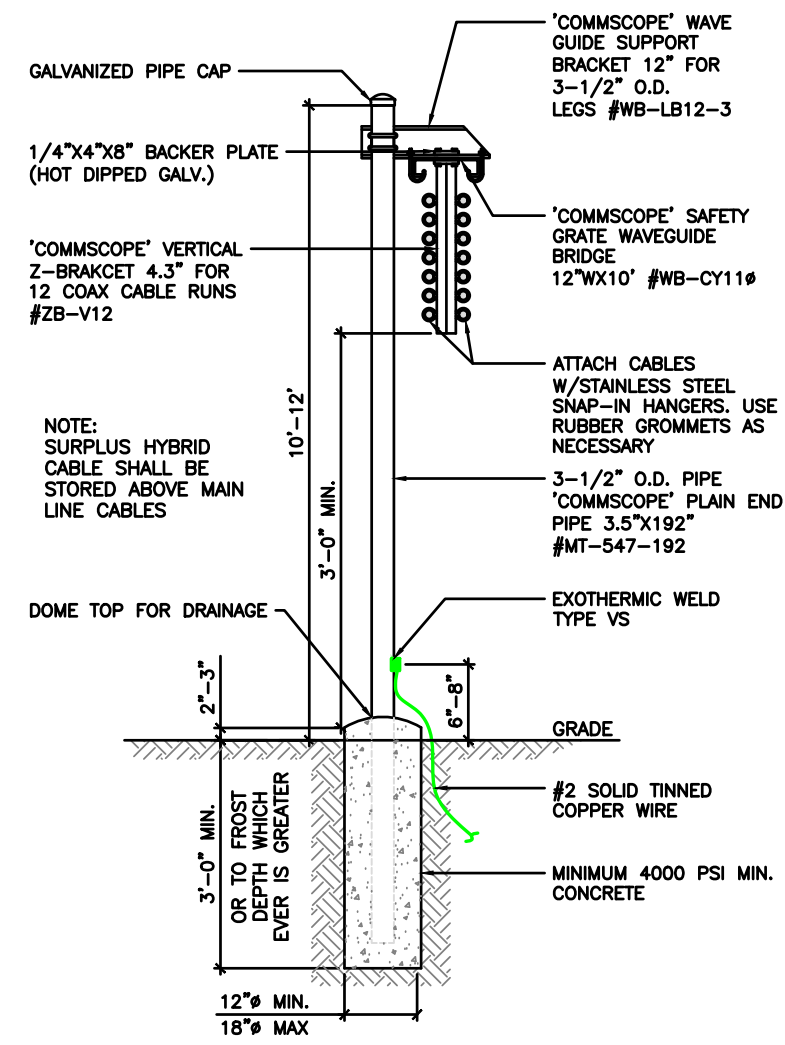


NOTE:
FIGURE 1: A SECTOR FRAME IS SHOWN WITH A MAST PIPE (RED) ATTACHED TO THE UPPER AND LOWER STANDOFF ARMS, USING CROSSOVER PLATES. THE MAST PIPE, USED AS AN RRU MOUNTING PIPE, IS WITHIN 12 INCHES OF THE CONNECTION POINT TO THE LEG (NOT TO SCALE). FOR MEASUREMENT PURPOSES, THE CONNECTION POINT IS CONSIDERED TO BEGIN WHERE THE STANDOFF ARM MEETS THE CONNECTION ASSEMBLY.

RRH MOUNTING DETAIL

SCALE
N.T.S.

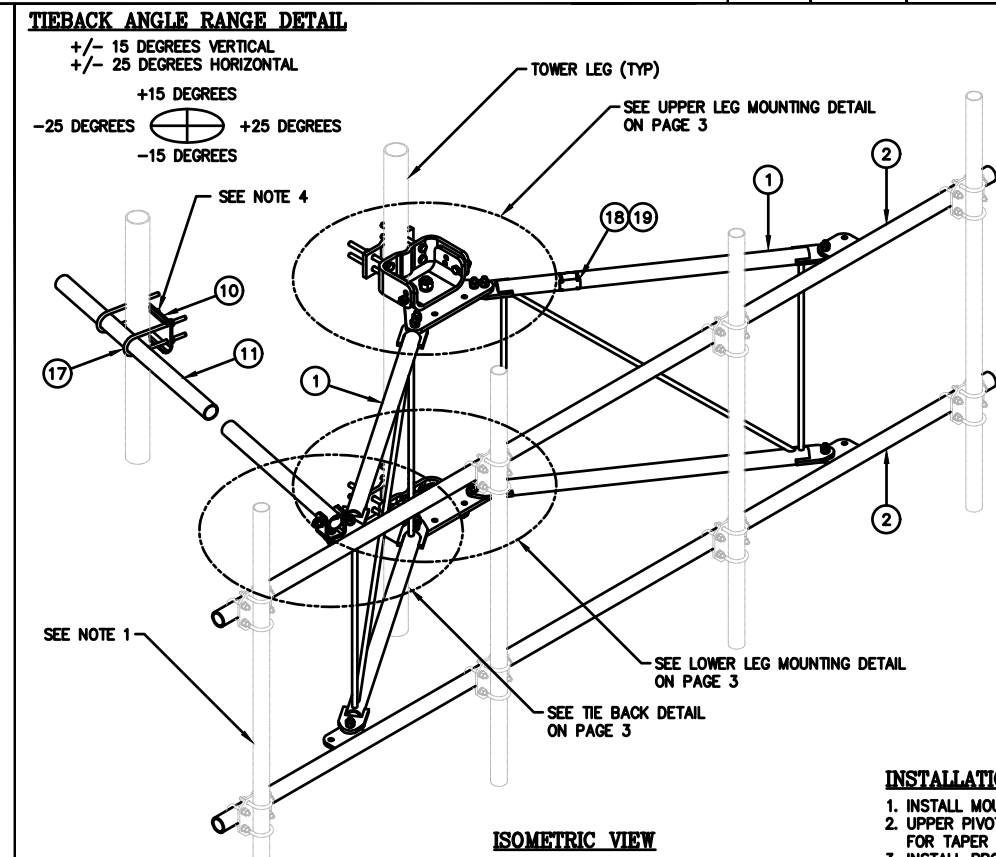
2



ICE BRIDGE DETAIL

SCALE
N.T.S.

4



NOTES:
1. MOUNTING PIPES & CROSSOVER PLATE KITS MUST BE PURCHASED SEPARATELY.
2. QUANTITIES SHOWN IN LISTS OF MATERIAL ARE FOR ONE (1) V-BOOM ONLY.
3. THIS V-BOOM WILL MOUNT TO THE FOLLOWING: 1 1/2" TO 5 9/16" ROUND LEG.
4. TIEBACK MUST BE CONNECTED TO A RIGID MEMBER THAT PROVIDES ADEQUATE SUPPORT WITHIN THE LIMITS NOTED ABOVE IN THE TIEBACK ANGLE RANGE DETAIL UNLESS APPROVED BY THE ENGINEER OF RECORD.

ANTENNA FRAME DETAIL (FOR REFERENCE ONLY)

C10857001C 12' HD V-BOOM ASSEMBLY W/TIEBACK				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	2	CW01222	WELDMENT, STANDOFF ARM	126
2.	2	CW01223	WELDMENT, FACE PIPE	147
3.	2	CS03109	PLATE, ROTATING	34
4.	1	CS03110	PLATE, PIVOTING (UPPER)	16
5.	1	CS03111	PLATE, LEG CLAMP (UPPER)	17
6.	1	CS03112	PLATE, PIVOTING (LOWER)	14
7.	1	CS03113	PLATE, LEG CLAMP (LOWER)	17
8.	2	CS03114	PLATE, LEG CLAMP (BACK)	14
9.	1	CS00098	PLATE, TIE BACK SWIVEL	3
10.	1	CS03285	PLATE, TIE BACK CLAMP	4
11.	1	CS03333	PIPE, TIE BACK	38
12.	2	C40026073	BOLT ASSEMBLY, 1" X 3 A325	4
13.	8	C40140004	BOLT ASSEMBLY, 5/8" X 8 A307	13
14.	1	C40026033	BOLT ASSEMBLY, 5/8" X 4 1/2 A325	1
15.	12	C40026025	BOLT ASSEMBLY, 5/8" X 2 1/2 A325	6
16.	5	C40026024	BOLT ASSEMBLY, 5/8" X 2 1/4 A325	3
17.	2	C40034183	U-BOLT ASSEMBLY, 1/2" X 2 15/16 C-C	3
18.	1	Z30992001	MOUNT CLASSIFICATION TAG C10857001C	1
19.	2	C40062103	STAINLESS STEEL SELF-LOCKING CABLE TIE	1
TOTAL WEIGHT				462

PACKAGING NOTE
CK00386 INCLUDES ITEMS 1, 3, 4, 5, 6, 7, 12 & 15 (8 QTY)
CK00387-HDW INCLUDES ITEMS 8, 9, 10, 13, 14, 15 (4 QTY), 16, 17, 18 & 19
CK00387-STL INCLUDES ITEMS 2 & 11

INSTALLATION NOTES:
1. INSTALL MOUNT TO TOWER AS SHOWN, SO THAT WELDED STANDOFF DIAGONAL IS SLOPING DOWNWARD FROM TOWER END TO FACE PIPE END.
2. UPPER PIVOTING PLATE (ITEM 4) HAS THREE HOLES ON EACH SIDE AND UPPER LEG CLAMP PLATE (ITEM 5) HAS TWO HOLES ON EACH SIDE FOR TAPER ADJUSTMENT.
3. INSTALL PRODUCT EXACTLY AS SHOWN IN DRAWING, WITH ALL BOLTS FACING UPWARDS.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:	
TOLERANCES: FRACTIONS ± 1/16"		TOLERANCES DO NOT APPLY TO RAW MATERIAL	
ANGLES ± 1/2 DEG.			
DECIMALS ± .010"			
Sabre Industries Towers and Poles			
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12' HD V-BOOM ASSEMBLY W/TIEBACK (3' STANDOFF) W/NO ANTENNA MOUNTING PIPES			
DATE	12/22/15	SIZE	B
DRAWN BY	WRF	DRAWING NO.	C10857001C
CHECKED BY	EK	REV	4
SCALE	None	PAGE	1 OF 3
SCALE	N.T.S.		1



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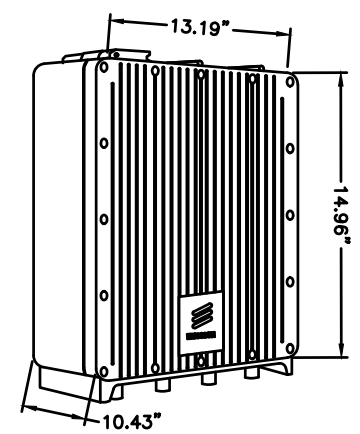
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WHITEWATER, WI 53190
FAA STUDY #: 2024-AGL-23880E

SHEET TITLE
CONSTRUCTION DETAILS

SHEET NUMBER
AT-C-3

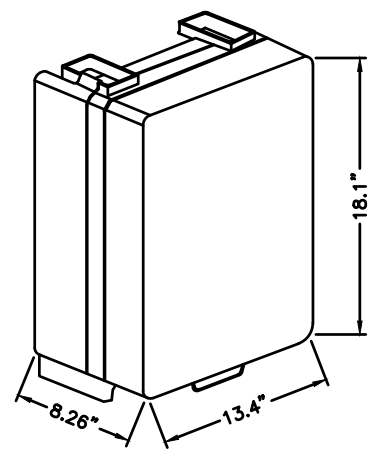
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MANUFACTURER: ERICSSON
 MODEL NO.: RRU5 4449 B5/B12
 WEIGHT: 73.0 LBS
 CONNECTOR TYPE: 4.3-10 FEMALE



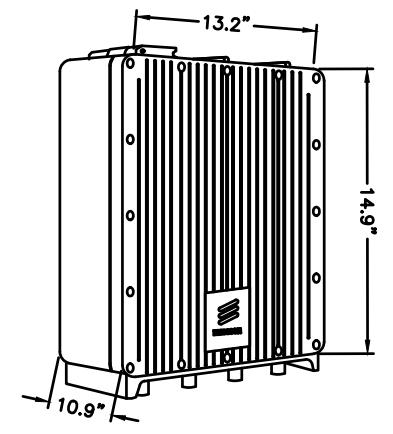
REMOTE RADIO HEAD DETAIL 7

MANUFACTURER: ERICSSON
 MODEL NO.: RRU5 4478 B14
 WEIGHT: 59.4 LBS
 CONNECTOR TYPE: 4.3-10 FEMALE



REMOTE RADIO HEAD DETAIL 6

MANUFACTURER: ERICSSON
 MODEL NO.: RRU5 8843 B2/B66a
 WEIGHT: 72.0 LBS
 CONNECTOR TYPE: 4.3-10 FEMALE



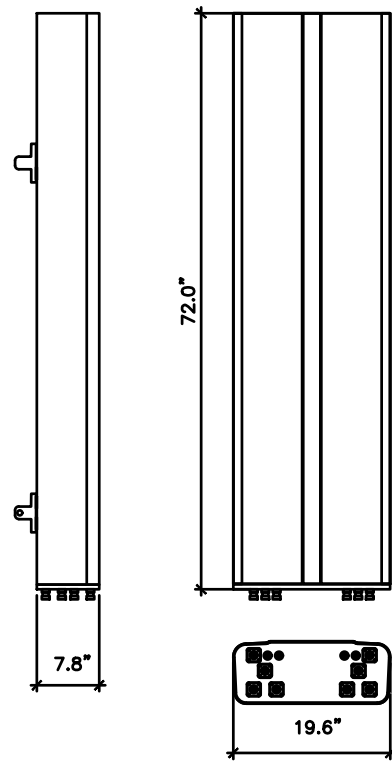
REMOTE RADIO HEAD DETAIL 5

GENERAL LABELING REQUIREMENTS

1. USE ENGRAVED PHENOLIC LABELS, P-TOUCH (OR EQUIVALENT) LABELS (MUST USE HEAVY ADHESIVE LABELS), OR OTHER MARKET APPROVED LABEL SYSTEM
2. OUTDOOR LABELS MUST BE RATED FOR UV EXPOSURE, BE FADE RESISTANT AND SUITED FOR OUTDOOR SERVICE (WATERPROOF)
3. LABEL TEXT
 - ARIAL FONT
 - MIN. WITH 1/2"
 - TEXT IS TO BE SINGLE LINE AND AS LARGE AS WILL FIT ON LABEL
4. P-TOUCH TYPE LABELS SHOULD BE "STRONG ADHESIVE" TYPE AND BE WHITE WITH BLACK TEXT
5. PHENOLIC LABELS NEED TO BE BLACK WITH ENGRAVED WHITE LETTERING
6. LABELS MUST BE PRINTED OR ENGRAVED NOT HANDWRITTEN

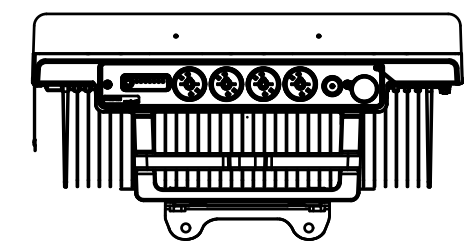
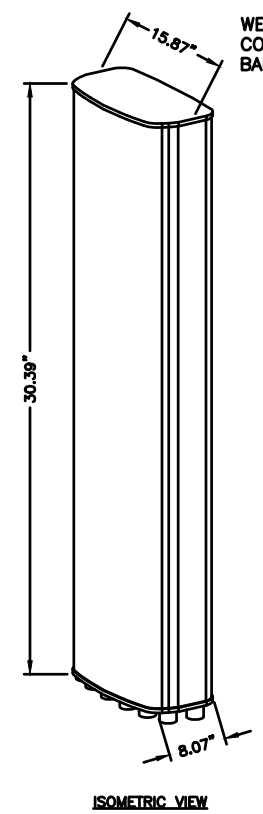
LABEL NOTES

COMMSCOPE ANTENNAS NNH4-65B-R6
 DIMENSIONS, HXWXD: 72.0"x19.6"x7.8"
 SURVIVAL WIND SPEED: >150 MPH
 WEIGHT, WITHOUT MOUNTING: 82.0 LBS. (37.2 kg)
 CONNECTOR POSITION: BOTTOM

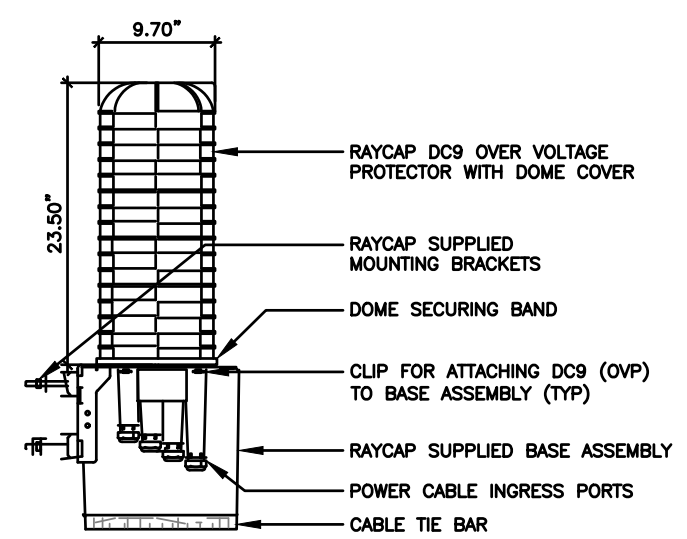


ANTENNA DETAIL 3

ERICSSON AIR ANTENNA 6449 B77D
 DIMENSIONS, HXWXD: 30.4"x15"x18"
 SURVIVAL WIND SPEED: >150 MPH
 WEIGHT, WITHOUT MOUNTING: 81.6 LBS.
 CONNECTOR POSITION: BOTTOM
 BAND: MULTI



C BAND ANTENNA DETAIL 2



RAYCAP DC9-48-60-24-8C-EV (SQUID) 1



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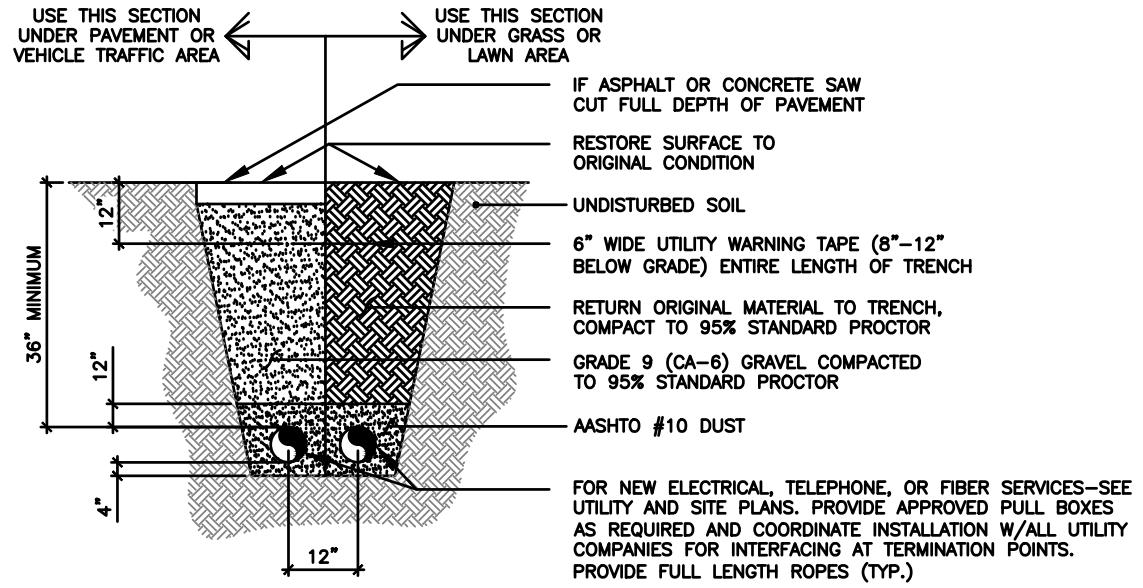
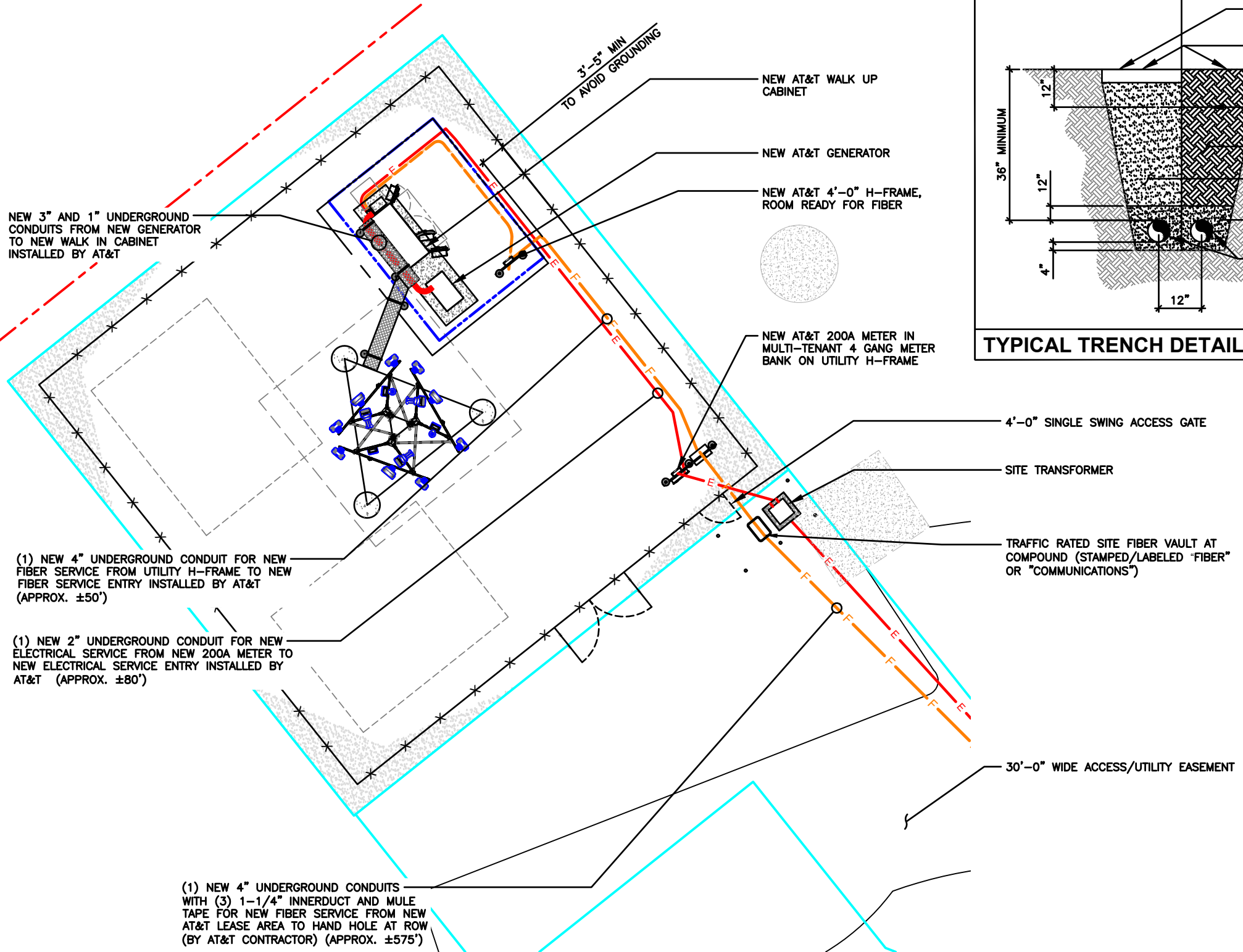
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 FAA STUDY #: 2024-AGL-23880E

SHEET TITLE
RRH, ANTENNA & EQUIPMENT SPECS.

SHEET NUMBER
AT-C-4

NOTE:
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TYPICAL TRENCH DETAIL

NOTE:
1. EXCAVATE EXISTING SUBGRADE AS REQUIRED TO INSTALL CONDUITS IN ACCORDANCE WITH OSHA AND ALL APPLICABLE CODES.

SCALE
N.T.S. **2**



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EXPIRE DATE: 06/30/25



Know what's below.
Call before you dig.

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)



SHEET TITLE
ENLARGED UTILITY PLAN

SHEET NUMBER
AT-E-1

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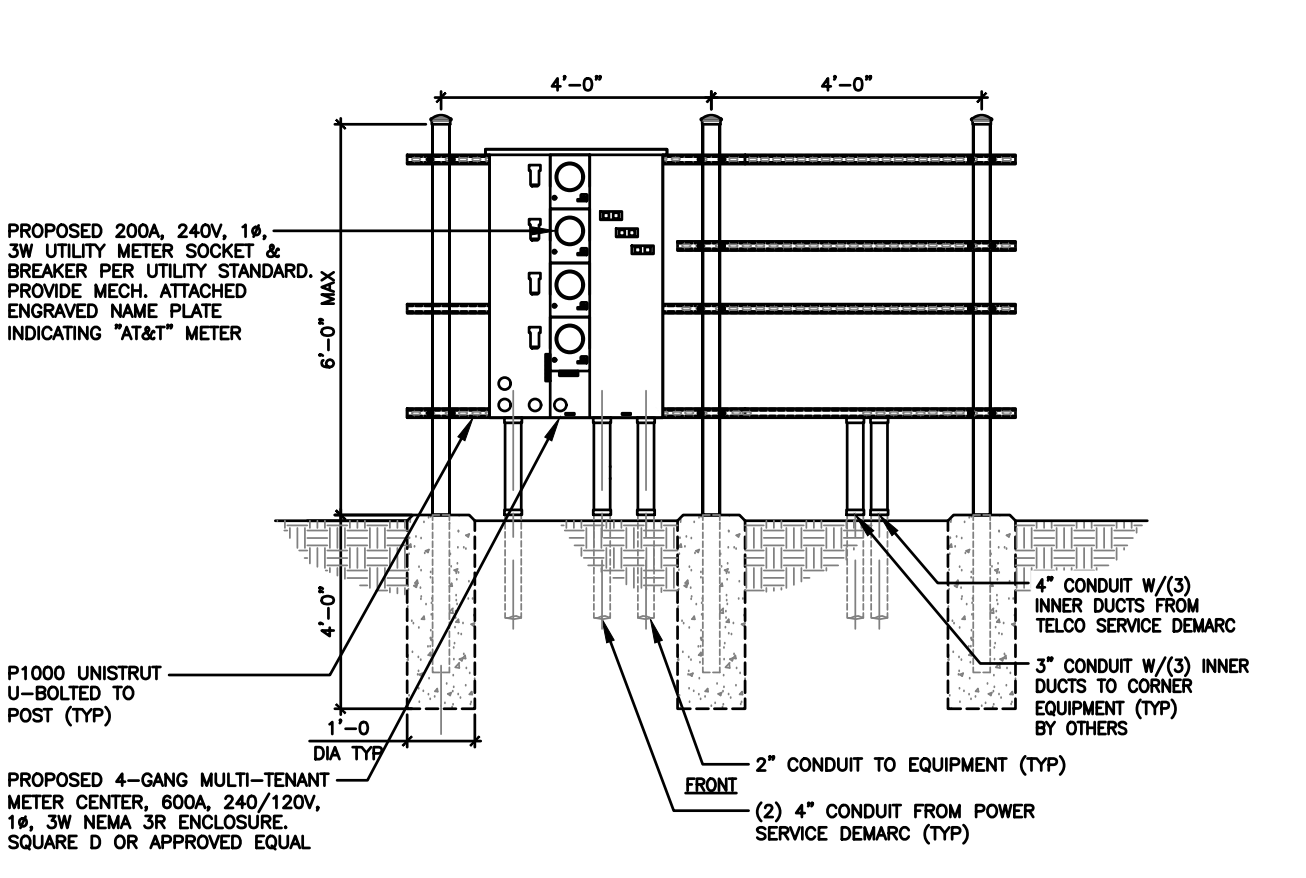
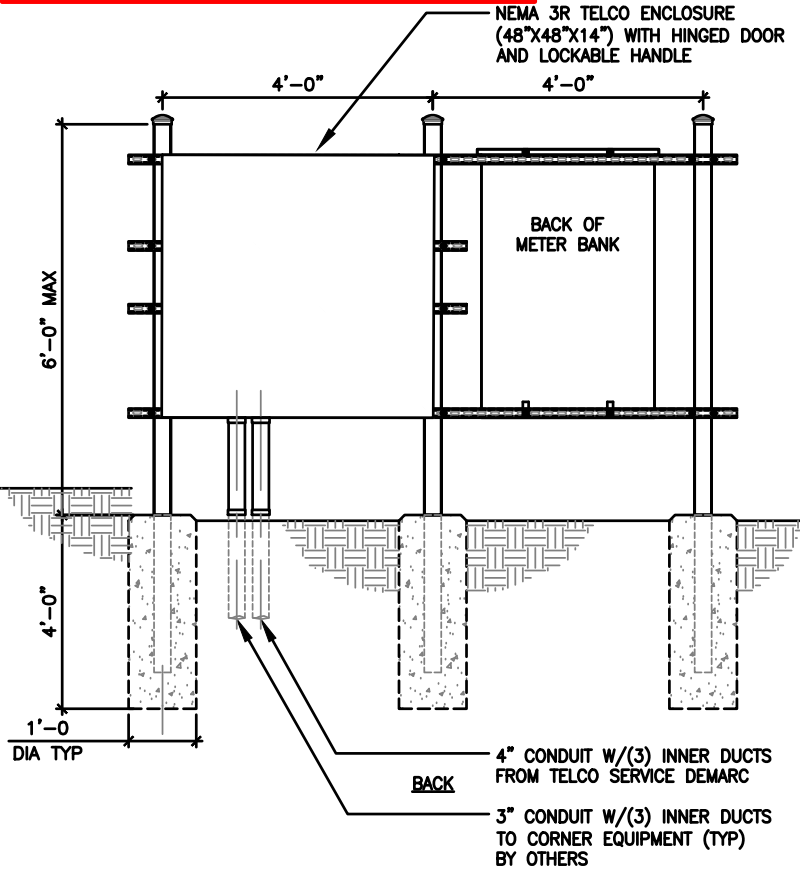
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1. SUBMITTAL OF BID INDICATES THAT THE CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
2. CONTRACTOR SHALL PERFORM ALL VERIFICATIONS, OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO ORDERING OF ANY 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 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														
			PHASE		WIRE COLOR	LOADS CONTINUOUS	LOADS NON-CONTINUOUS	LOADS SUB-PANEL	WIRE SIZE	GROUNDING WIRE SIZE	TRIP	PHASE		WIRE COLOR						LOADS CONTINUOUS	LOADS NON-CONTINUOUS	WIRE SIZE	GROUNDING WIRE SIZE	TRIP					
DESCRIPTION	QTY.	UNIT V.A.	A	B								A	B		UNIT V.A.	QTY.	DESCRIPTION												
1	RECTIFIER #1	1	1400	1400		BLK													RECTIFIER #5	2									
3		1	1400		1400	RED	X													4									
5	RECTIFIER #2	1	1400	1400		BLK													RECTIFIER #6	6									
7		1	1400		1400	RED	X													8									
9	RECTIFIER #3	1	1400	1400		BLK													RECTIFIER #7	10									
11		1	1400		1400	RED	X													12									
13	RECTIFIER #4	1	1400	1400		BLK													RECTIFIER #8	14									
15		1	1400		1400	RED	X													16									
17						BLK														18									
19						RED	X													20									
21	GFCI RECEPTACLES	1	180	360		BLK	X													22									
23	OPTIONAL FIBER BOX RECEPTACLE	1	180		180	RED	X													24									
25	BATTERY CHARGER	1	240	240		BLK	X													26									
27	SPARE					RED	X													28									
29	SPARE					BLK	X													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		TOTAL KVA		28.97												
PANEL DESIGNATION: ELECTRICAL PANEL (ITEM 2)																													
MAIN LUGS: N/A					MAIN BREAKER: 200 AMP					BRANCH BREAKER TYPE: SIEMENS - BL					TOTAL AMPS					120.72									
VOLTAGE: 120/240					CYCLE: 60					PHASE: 1					WIRES: 3					MAIN COPPER BUS: 200 AMPS					NEUTRAL: 200 AMPS				

AT&T P - B PANEL SCHEDULE

NOTE:
ALL CONDUIT FROM BELOW GRADE TO ABOVE GRADE MUST INCLUDE FROST SLEEVES TO PREVENT FROST DAMAGE TO CONDUIT OR EQUIPMENT.



ELECTRICAL NOTES

SCALE N.T.S. **4**

UTILITY FRAME DETAIL

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



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SCALE N.T.S. **2**

DRAWN BY: **DWM**
 CHECKED BY: **MC**

REV	DATE	DESCRIPTION
A	03/04/24	PRELIMINARY CD
B	03/06/24	PRELIMINARY CD

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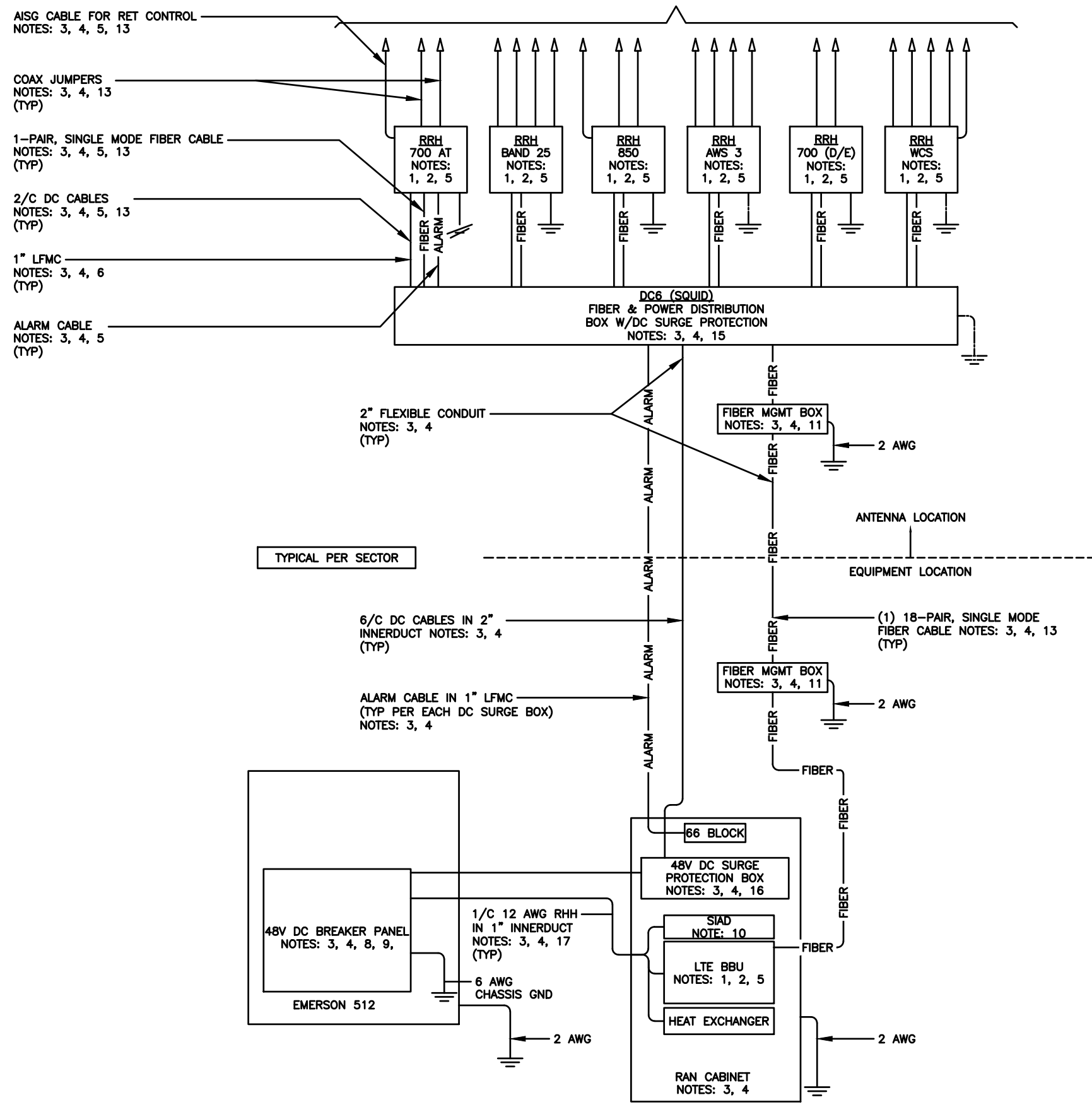
AT&T SITE # W12696
 AT&T SITE NAME: WHITEWATER
 FA # 11655718
 SITE ADDRESS:
 1002 S JANESVILLE STREET
 WHITEWATER, WI 53190
 FAA STUDY #: 2024-AGL-23880E

SHEET TITLE
ELECTRICAL SCHD., DIA & NOTES

SHEET NUMBER
AT-E-2

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TOWARDS ANTENNAS SEE RF DATA SHEET



NOTES:

1. FURNISHED BY OEM/AT&T.
2. INSTALLED BY OEM OR AS SCOPED BY MARKET.
3. FURNISHED BY OTHERS
4. INSTALLED BY OTHERS
5. FINAL CONNECTION BY OEM OR AS SCOPED BY MARKET.
6. OPEN END OF LFMC TO BE LEFT WEATHERPROOFED UNTIL TERMINATED.
7. DELETED.
8. BREAKERS SPECIFIED SOLD SEPERATELY.
9. BREAKERS TO BE TAGGED AND LOCKED OUT.
10. SIAD IS FURNISHED AND INSTALLED BY OTHERS AND INCLUDES POWER CONNECTIONS AND FIBER TO THE UNIT OR AS SCOPED BY MARKET. INSTALL 10 AWG CHASSIS GROUND, PROVIDE (2) 10A BREAKERS FROM A 24V DC POWER SOURCE OR (2) 5A BREAKERS FROM A 48V DC POWER SOURCE AND CONNECT USING MFR POWER CABLE WITH SPECIAL CONNECTOR.
11. FIBER MANAGEMENT BOX IS J-SOURCE MODEL 12126FM4SEC.
12. LEC TO FURNISH AND INSTALL NETWORK INTERFACE DEVICE.
13. LEAVE COILED AND PROTECTED UNTIL TERMINATED.
14. SEE DETAIL 1408 FOR DC POWER CABLE SIZES.
15. FIBER AND POWER DISTRIBUTION BOX 4/48V SURGE SHALL BE RAYCAP MODEL DC6-48-60-18-8F.
16. POWER DISTRIBUTION W/DC SURGE PROTECTION BOX SHALL BE RAYCAP MODEL DC6-48-60-0-18.
17. SINGLE-CONDUCTOR DC POWER CABLES SHALL BE TELCOFLEX OR KS24194, COPPER, UL LISTED RHH NON-HALOGEN, LOW SMOKE WITH BRAIDED COVER, TYPE TC (1/0 AND LARGER). UNLESS OTHERWISE NOTED, STRANDING SHALL BE CLASS B (TYPE III) FOR CABLES SIZES 14, 12 & 10 AWG AND CLASS 1 (TYPE IV) FOR SIZES 8 AWG AND LARGER. CABLES SHALL BE COLOR CODED RED FOR +24V, BLUE FOR -48V AND GRAY FOR 24V AND 48V RETURN CONDUCTORS. MULTI-CONDUCTOR DC POWER CABLES SHALL COPPER, CLASS B STRANDED WITH FLAME RETARDANT PVC JACKET, TYPE TC, UL LISTED FOR 90°C DRY/ 75°C WET INSTALLATION.
18. 10A FUSE FOR HEAT EXCHANGER FURNISHED AND INSTALLED BY OTHERS.
19. DELETED
20. GROUNDING WIRES SHALL BE COPPER, GREEN THHN/THWN UL LISTED FOR 90°C DRY/75°C WET INSTALLATION. MINIMUM SIZE IS 6 AWG UNLESS NOTED OTHERWISE.
21. RET CONTROL FROM THE RRH IS AN OPTIONAL METHOD OF CONNECTION. REFER TO RF DATA SHEET FOR APPLICABILITY.
22. DELETED.
23. FIBER AND POWER DISTRIBUTION BOX 4/48V SURGE SHALL BE RAYCAP MODEL DC6-48-60-0-1E.
24. FIBER MANAGEMENT BOX IS COMMSCOPE MODEL FB 18188.
25. FIBER AND POWER DISTRIBUTION BOX 4/48V SURGE SHALL BE RAYCAP MODEL DC12-48-60-0-25E.



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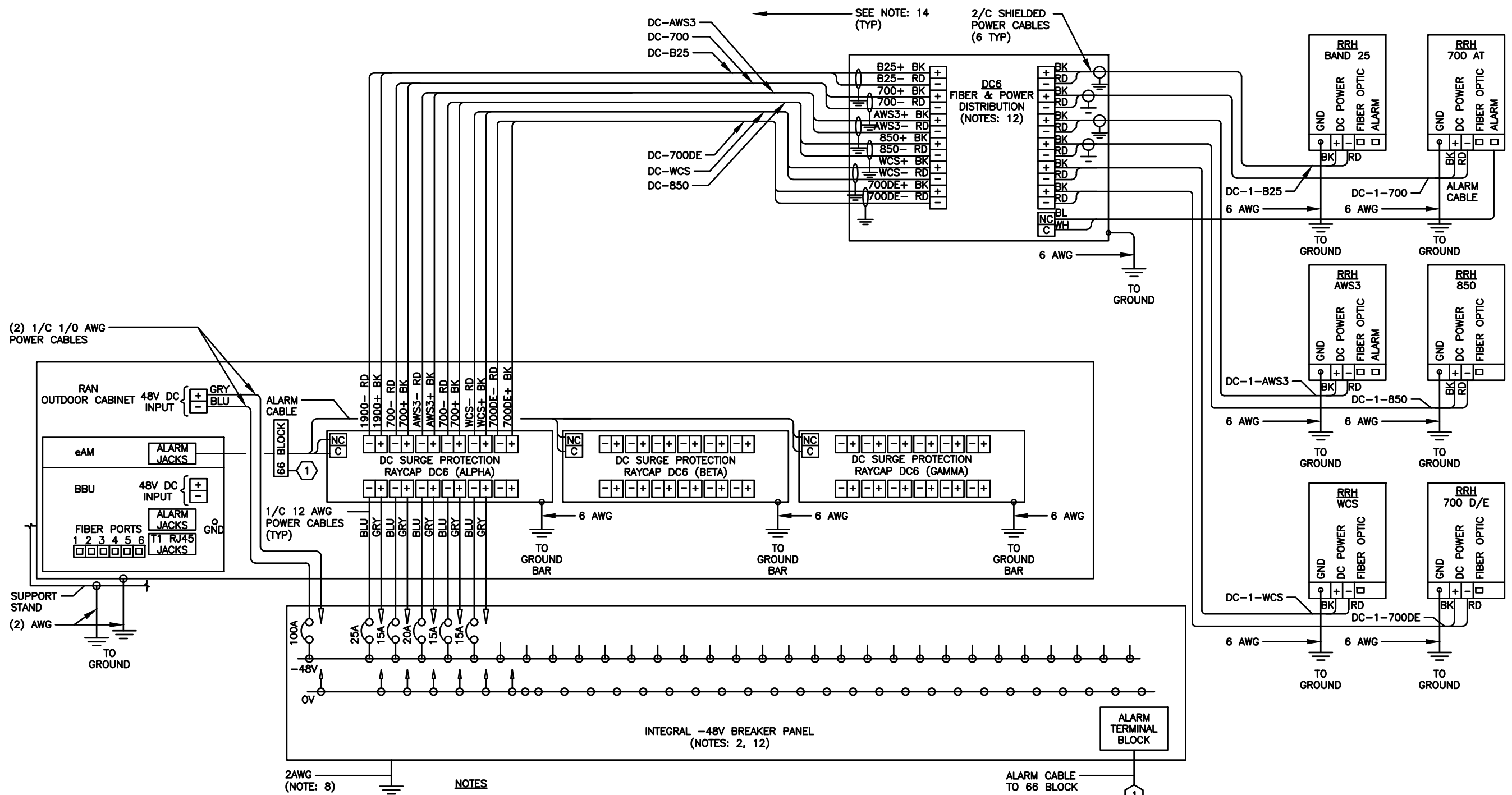
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SHEET TITLE
DC/FIBER SYSTEM DIAGRAM

SHEET NUMBER
AT-E-3

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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



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 WHITWATER, WI 53190
 FAA STUDY #: 2024-AGL-23880E

SHEET TITLE
DC WIRING DIAGRAM

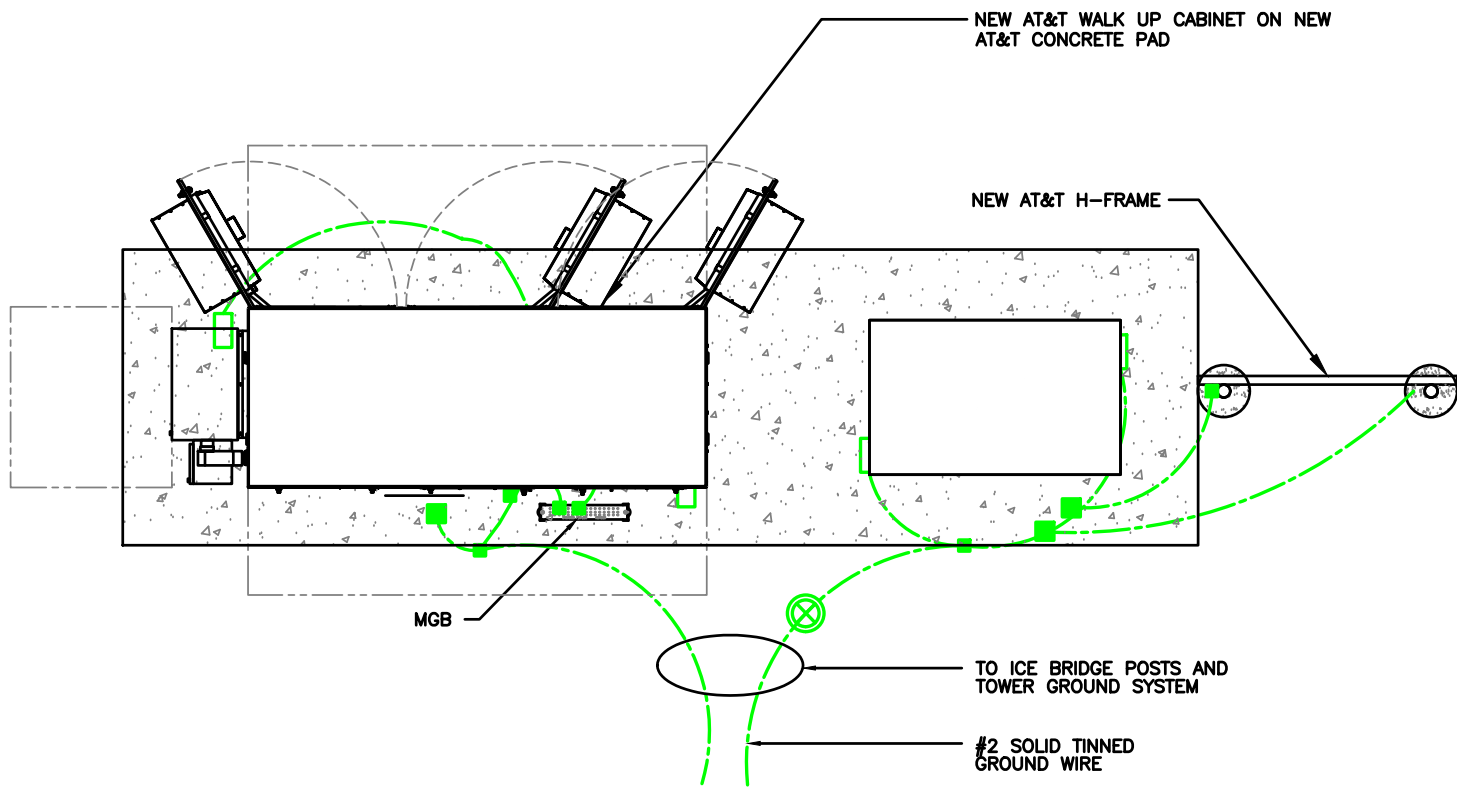
SHEET NUMBER
AT-E-4

DC WIRING DIAGRAM

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

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



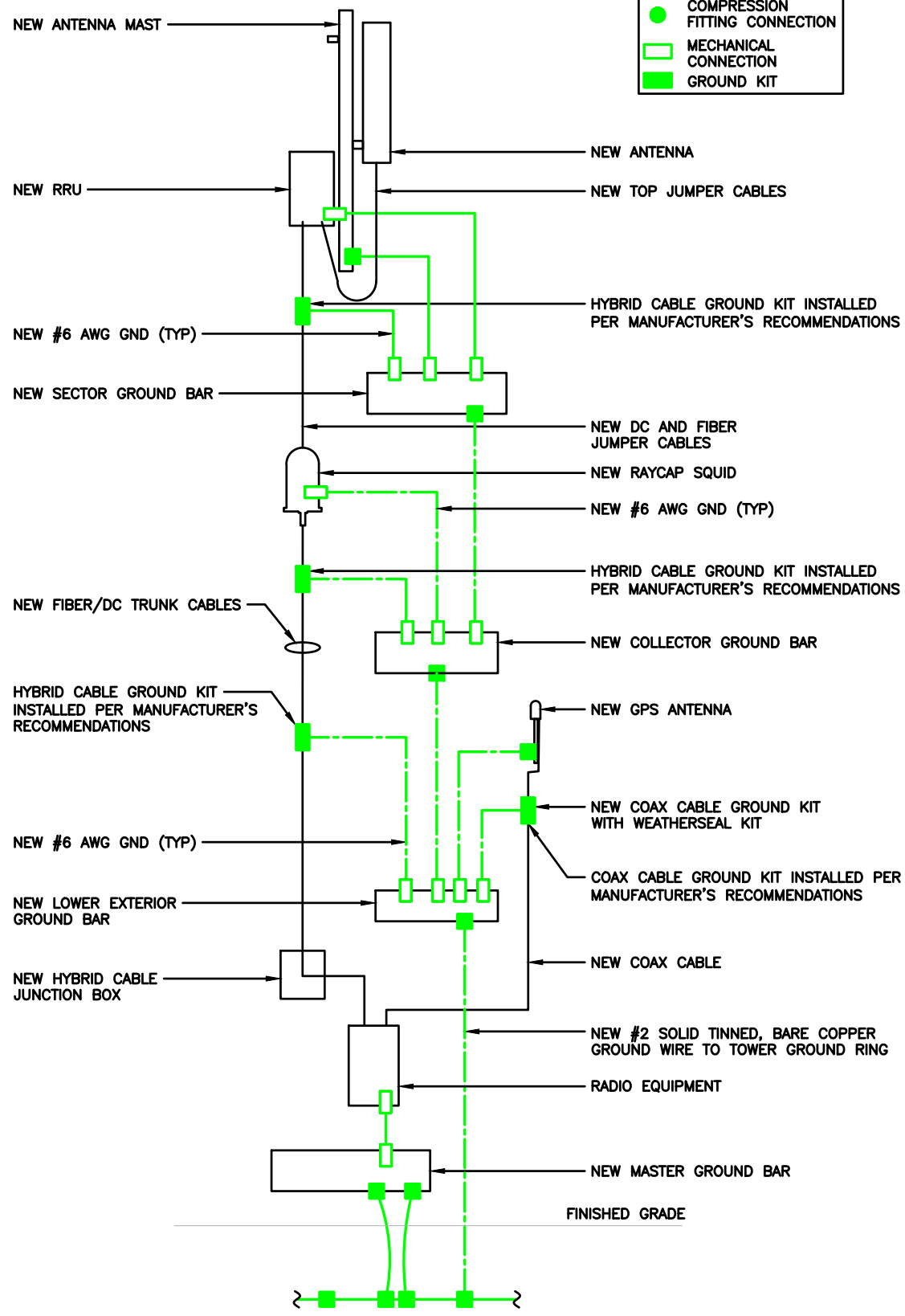
Know what's below.
Call before you dig.

GROUNDING PLAN

SCALE: N.T.S. **2**

NOTE:
GROUND LEAD INSIDE RUBBER GROMMET TO BE ATTACHED WITH X-CROSS ZIP TIES TO BRACKET. DO NOT USE SNAP-IN HANGERS AROUND GROUNDS.

LEGEND	
	EXOTHERMIC WELD CONNECTION
	COMPRESSION FITTING CONNECTION
	MECHANICAL CONNECTION
	GROUND KIT



RISER DIAGRAM

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



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WHITewater, WI 53190
FAA STUDY #: 2024-AGL-23880E

SHEET TITLE
GROUNDING PLAN & RISER DIAGRAM

SHEET NUMBER
AT-G-1

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 ANTI-OXIDANT 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 6" ABOVE AND BELOW GRADE/ GRAVEL 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.

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 OR (3) WRAPS OF TAPE AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT SO AS TO AVOID UNRAVELING.
- 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.

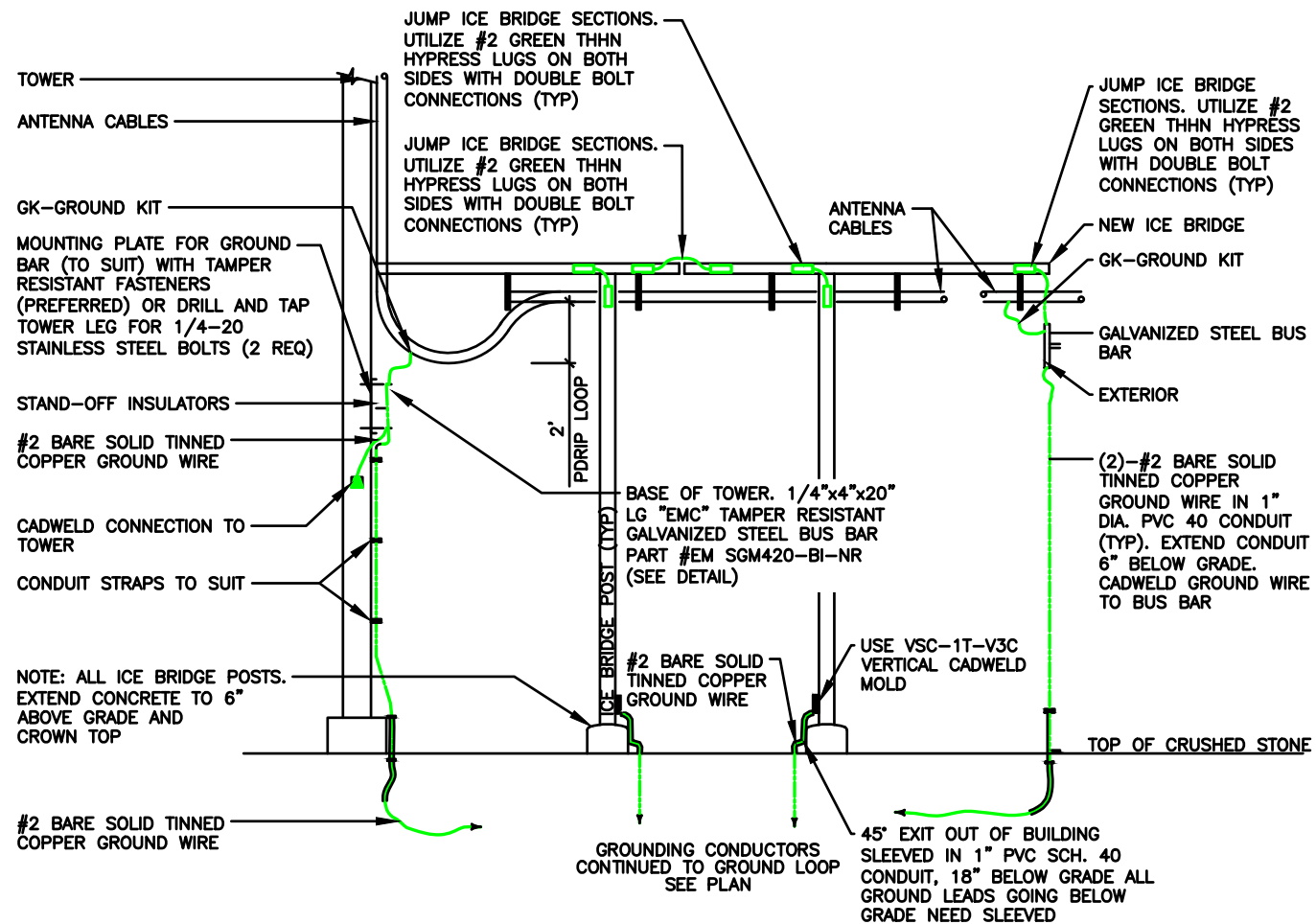
GROUNDING NOTES

SCALE N.T.S. **5**

CABLE COLOR CODING NOTES

SCALE N.T.S. **4**

COAXIAL GROUNDING AT ICE BRIDGE

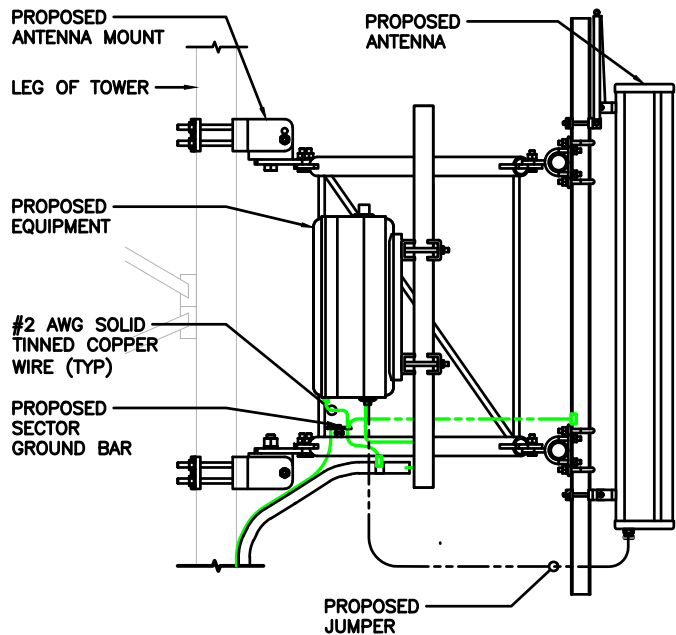


ANTENNA & CABLE GROUNDING

SCALE N.T.S. **3**

GROUND WELL, ROD, AND TEST WELL DETAIL

SCALE N.T.S. **2**



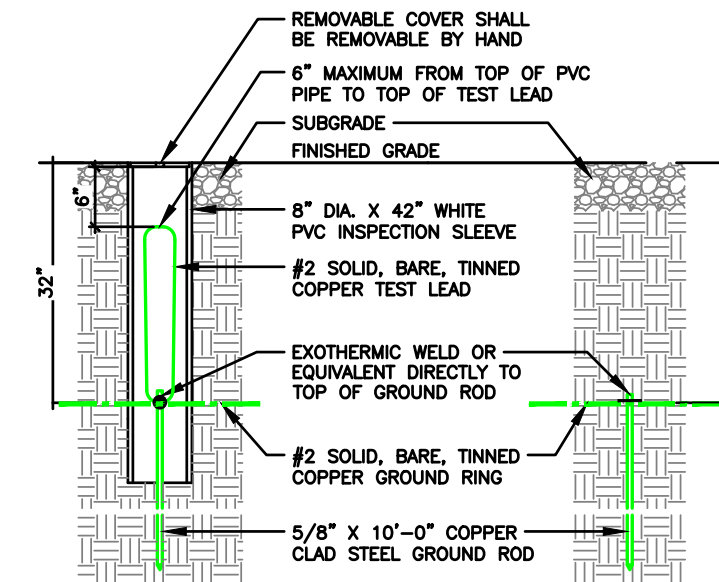
NOTE: SEE RESISTIVITY REPORT FOR VERIFICATION AS AVAILABLE

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



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DRAWN BY: DWM
CHECKED BY: MC

REV	DATE	DESCRIPTION
A	03/04/24	PRELIMINARY CD
B	03/06/24	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

EXPIRE DATE: 06/30/25

AT&T SITE # W12696
 AT&T SITE NAME: WHITWATER
 FA # 11655718
 SITE ADDRESS:
 1002 S JANESVILLE STREET
 WHITWATER, WI 53190
 FAA STUDY #: 2024-AGL-23880E

SHEET TITLE
 GROUNDING
 DETAILS & NOTES

SHEET NUMBER
AT-G-2

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