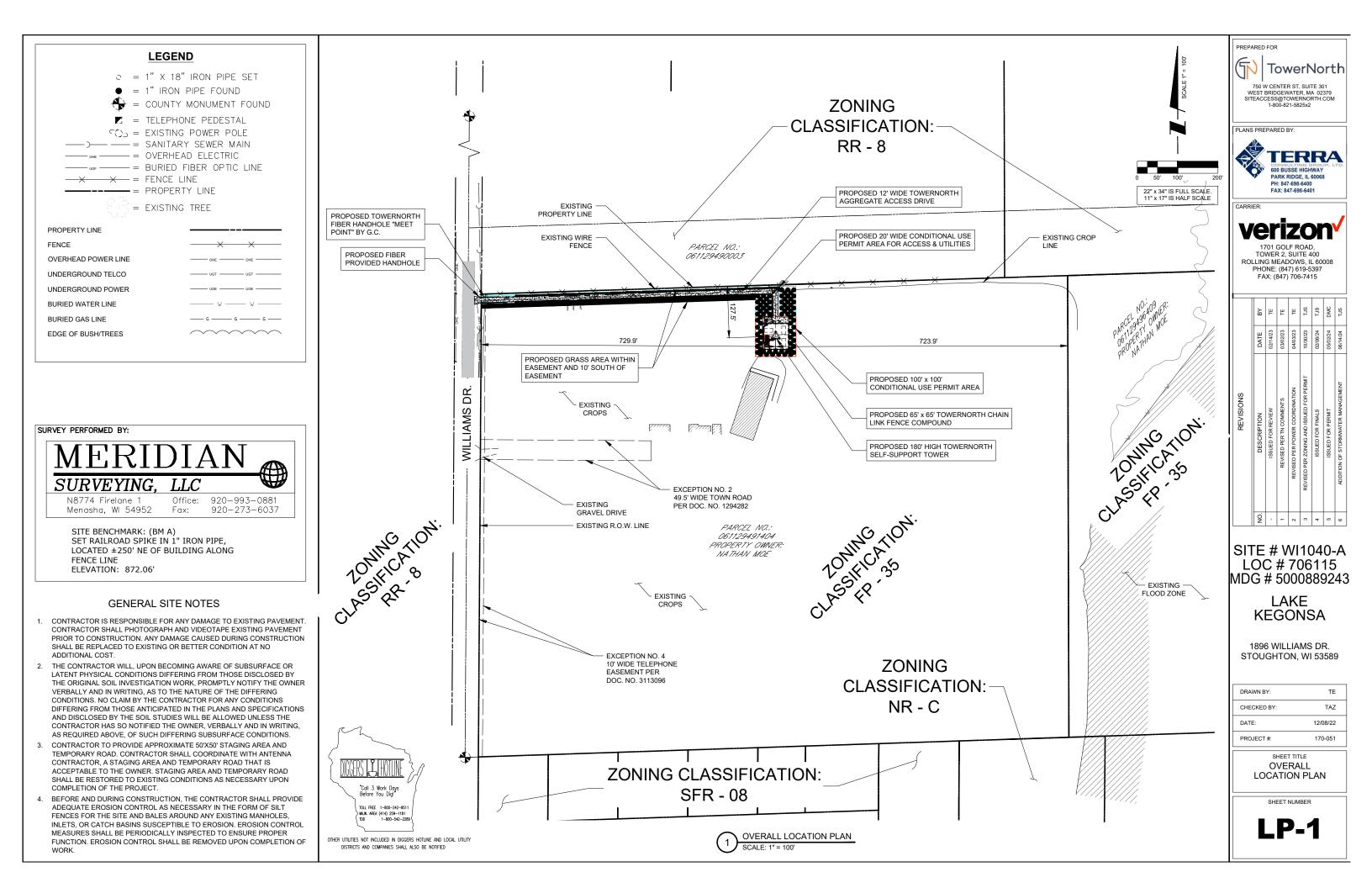
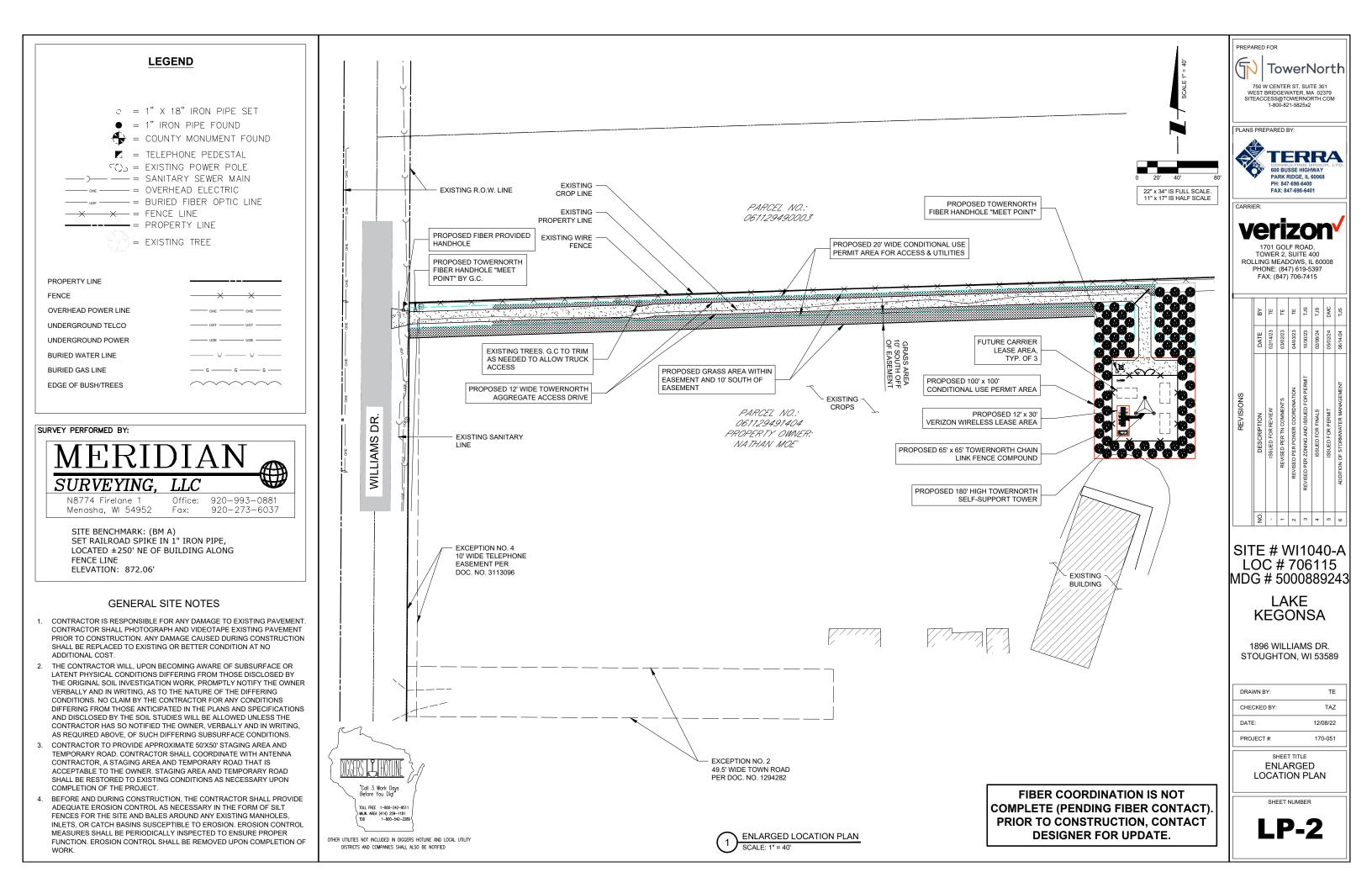
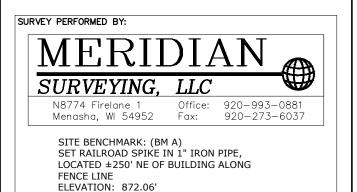
CONSULTANT TEAM	PROJECT TYPE		VICINITY MAP	N.T.S. 🕥		PROJECT INFORMATION		PREPARED FOR	
PROJECT TERRA CONSULTING GROUP, LTD. CONSULTANT: 600 BUSSE HIGHWAY	PROPOSED VERIZON WIRELESS ANTENNAS TO BE MOUNT				ZONING:	FP-35 GENERAL FARMLAND PRESERVATION		Towe	erNorth
PARK RIDGE, IL 60068 (847) 698-6400	SELF SUPPORT TOWER WITH PROPOSED 11'-0" x 4'-0" EQU CONCRETE PAD AT BASE.	JIPMENT ON	e e e e e e e e e e e e e e e e e e e		OCCUPAN	NCY: UNINHABITED		750 W CENTER ST WEST BRIDGEWATE	
SURVEYOR: MERIDIAN SURVEYING, LLC N8774 FIRELANE 1	SITE COORDINATES:		A LEAST AND A LEAS		PERMITTI JURISDIC			SITEACCESS@TOWE 1-800-821-58	
MENASHA, WI 54952 (920) 993-0881	LATITUDE: 42° 57' 02.18" N (1A CERTIFICATION)				E911 ADD			PLANS PREPARED BY:	
	LONGITUDE: 89° 13' 05.52" W (1A CERTIFICATION) ELEVATION: ±881.0' (1A)			C.	TOWER C	WNER: TOWERNORTH DEVELOPMENT, LLC 750 W CENTER STREET, SUITE 301 W BRIDGEWATER, MA 02379			GE, IL 60068
			BU SHITT		CONTACT	: LIZ RUTKOWSKI EMAIL: LRUTKOWSKI@TOWERNORTH.COM PHONE: 401-533-1679		FAX: 847-69	
					PROPERT	Y OWNER: NATHAN M MOE (608) 843-9733		veriz	'nn'
LANDLORD:			KEGONSA RD		POWER P	MOEENTERPRISES210@GMAIL.COM ROVIDER: STOUGHTON ELECTRIC UTILITY		1701 GOLF F	
LEASING:			REGULAR RU		1 OWER	SCOTT ADLER 608-877-7416 SADLER@STOUGHTONUTILITIES.COM		TOWER 2, SU ROLLING MEADOV PHONE: (847) 6	WS, IL 60008
CONSTRUCTION:			ALICE CIR.		TELCO PF			FAX: (847) 70	
<u></u>]	1				SHEET	DRAWING INDEX	REVISION		
		7.	REVISED PROPOSED TREE HEIGHT	07/05/24 AMW	T-1	TITLE SHEET	2,3,4,5,6	B E E E E E E	SLT DMC
		-	ISSUED FOR REVIEW	XX/XX/XX XXX	LP-1 LP-2	OVERALL LOCATION PLAN ENLARGED LOCATION PLAN	3,6 1.6	ATE /14/23 /02/23	/30/23 /06/24 /02/24
		-	ISSUED FOR REVIEW	XX/XX/XX XXX	LP-3	AERIAL EXHIBIT	3		02 02 10
			GENERATOR TYPE: DIESEL	/5	C-1 C-2	ENGINEERING SITE PLAN SITE GRADING PLAN (SHEET 1 OF 2)	-		⊢
			MAKE: GENERAC MODEL #: SD030-1PE-190JT:		C-2A C-2B	SITE GRADING PLAN (SHEET 2 OF 2) EROSION CONTROL PLAN (SHEET 1 OF 2)		S NOI	R PERMI
			GEN-GENSE I -WP-30KW	/-DSL-1PH-190G-AHJ-TANK	Č C-2C	EROSION CONTROL PLAN (SHEET 2 OF 2)	5,6	SION SION RENTS	JED FOF
	V		-		C-2D C-3	EROSION CONTROL DETAILS FENCE DETAILS	المديم	REV DR REVI IN COM	ND ISSU
			erizon		C-4 C-5	SITE DETAILS CONSTRUCTION NOTES	-	DESCR SUED FC	SUED F
Tanan	La sub-la				C-6 L-1	SITE SIGNAGE LANDSCAPE PLAN	- 3,6,7	ISED PI ISS	IS IS
TowerN	ΙΟΓΤΠ				ANT-1	SITE ELEVATION	-	L L L L L L L L L L L L L L L L L L L	ADDIT
			1701 GOLF ROAD, TOWER 2, SUITE 400		E-1 E-2	ELECTRICAL NOTES UTILITY ROUTING PLAN	- 1,6		
750 W CENTER ST			ROLLING MEADOWS, ILLINOIS 60008		E-2A E-3	ENLARGED UTILITY ROUTING PLAN H-FRAME DETAILS	1	2 2	0 2 4 3
WEST BRIDGEWATE PHONE: (844) 748-8878	•	PHO	NE: (847) 619-5397 FAX: (847) 706-74	15	E-4	SINGLE LINE DIAGRAM & TRENCH DETAILS	-		<u> </u>
SITEACCESS@TOWE		LOC	CATION NUMBER: 70611	5	E-5 E-6	SITE GROUNDING PLAN GROUNDING DETAILS	6	SITE # WI	
1-800-821-58			CATION NUMBER: 50008	802/3	EX-1 VW LP	PHOTO EXHIBIT LOCATION PLAN	- 6	LOC # 7 MDG # 500	06115
	IVIL				VW C-1 VW C-2	ENGINEERING SITE PLAN SITE GRADING PLAN	6		
		SIII	E NAME: LAKE KEGONS	A	VW C-3	EQUIPMENT PAD FOUNDATION PLAN	-	LAK KEGO	
					VW C-4 VW A-1	GENERATOR FOUNDATION DETAILS SITE ELEVATION & ANTENNA LAYOUT	-	REGUI	NSA
					VW A-2 VW A-2A	ANTENNA INFORMATION ANTENNA INFORMATION	-	1896 WILLIA	AMS DR.
	SITE NAME: LAK		EGUNSA		VW A-3	SITE DETAILS	-	STOUGHTON	, WI 53589
		. \\///		1 111111	VW A-3A VW A-4	ANTENNA MOUNTING DETAILS SITE DETAILS	3		
	SITE NUMBER	: VVI1	040-A	DMSIA	VW B-1 VW B-2	EQUIPMENT PAD PLAN & NOTES EQUIPMENT PAD ELEVATIONS	3	DRAWN BY:	TE
1 pm					VW E-1	UTILITY ROUTING PLAN	6	CHECKED BY:	TAZ 12/08/22
				AMANN DE	VW E-1A VW E-1B	UTILITY RISER DIAGRAMS GENERATOR UTILITY ROUTING PLAN	-	PROJECT #:	12/08/22
BICGERS LI HOTLINE	1896 WILLI	AIVI2		RIDGE	VW E-1C VW E-2	GENERATOR SINGLE LINE DIAGRAM & ALARM WIRING ELECTRICAL AND GROUNDING NOTES		SHEET TI	
"Call 3 Work Days	STOUGHTON		53580	Ling and And	VW E-3 VW E-4	ELECTRICAL DETAILS SITE GROUNDING PLAN	-	TITLE SH	
Before You Dig!" TOLL FREE 1-800-242-8511	STUDGITU	N, VVI	00000	ALENGININ	VW E-5	GROUNDING DETAILS	-		
MUIX. AREA (414) 225-1181 TD0 1-800-542-2289				470574	VW E-6 VW EX-1	GROUNDING DETAILS		SHEET NUM	ИBER
OTHER UTILITES NOT INCLUDED IN DIGGERS HOTLINE AND LOCAL UTILITY DISTRICTS AND COMPANIES SHALL ALSO BE NOTIFIED			1/1	Der.	<u> </u>	ATTACHMENTS		T -	1
UISTRUIS MAU VUMPARES SINUL ALSU DE RUTIFIEU					1 - 3	SITE SURVEY RFDS (BY OTHERS)	-	∥∎■	
								11	,





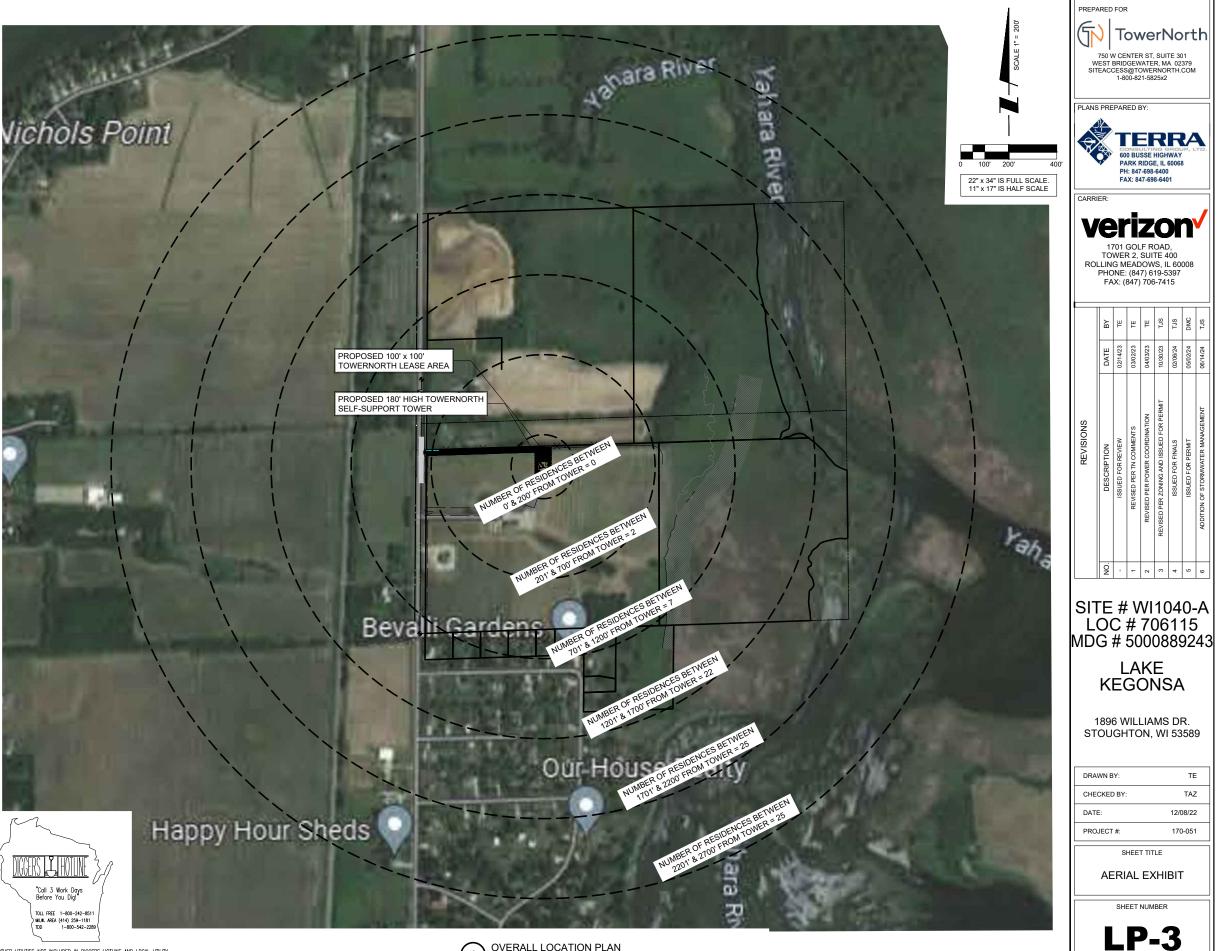
LEGEND

LEGEI	
• = 1" IRON	" IRON PIPE SET PIPE FOUND MONUMENT FOUND
۲۵۵ = EXISTING 	RY SEWER MAIN AD ELECTRIC FIBER OPTIC LINE LINE
EXISTING	G TREE
PROPERTY LINE	
FENCE	——————————————————————————————————————
OVERHEAD POWER LINE	OHE
UNDERGROUND TELCO	UGT UGT
UNDERGROUND POWER	UGE UGE
BURIED WATER LINE	W W
BURIED GAS LINE	G G G
EDGE OF BUSH/TREES	

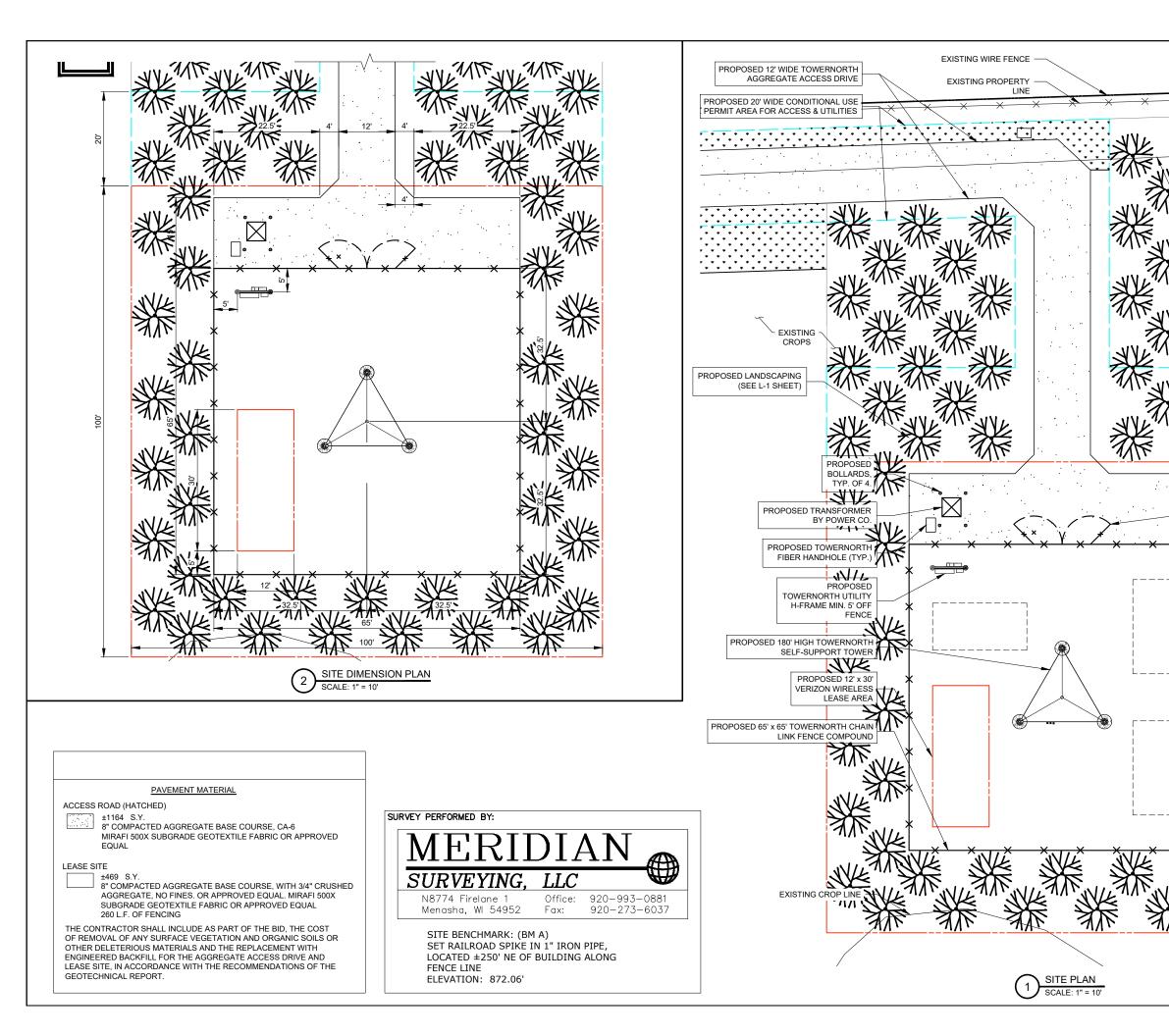


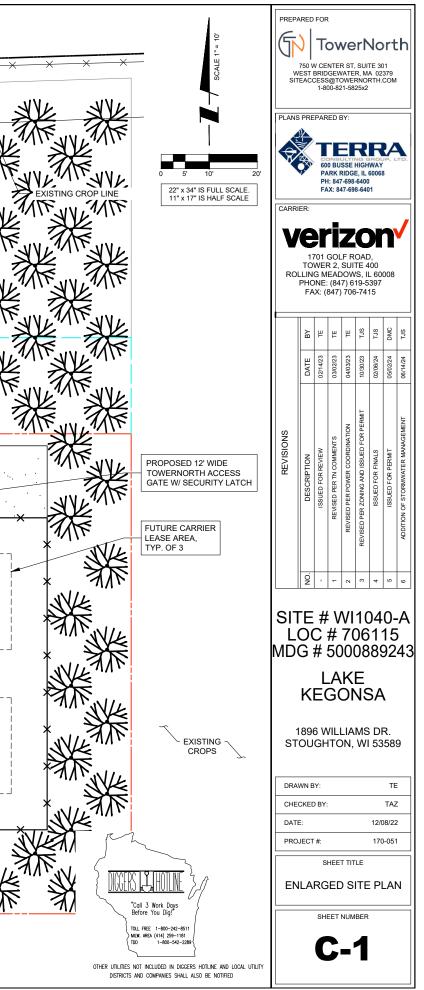
GENERAL SITE NOTES

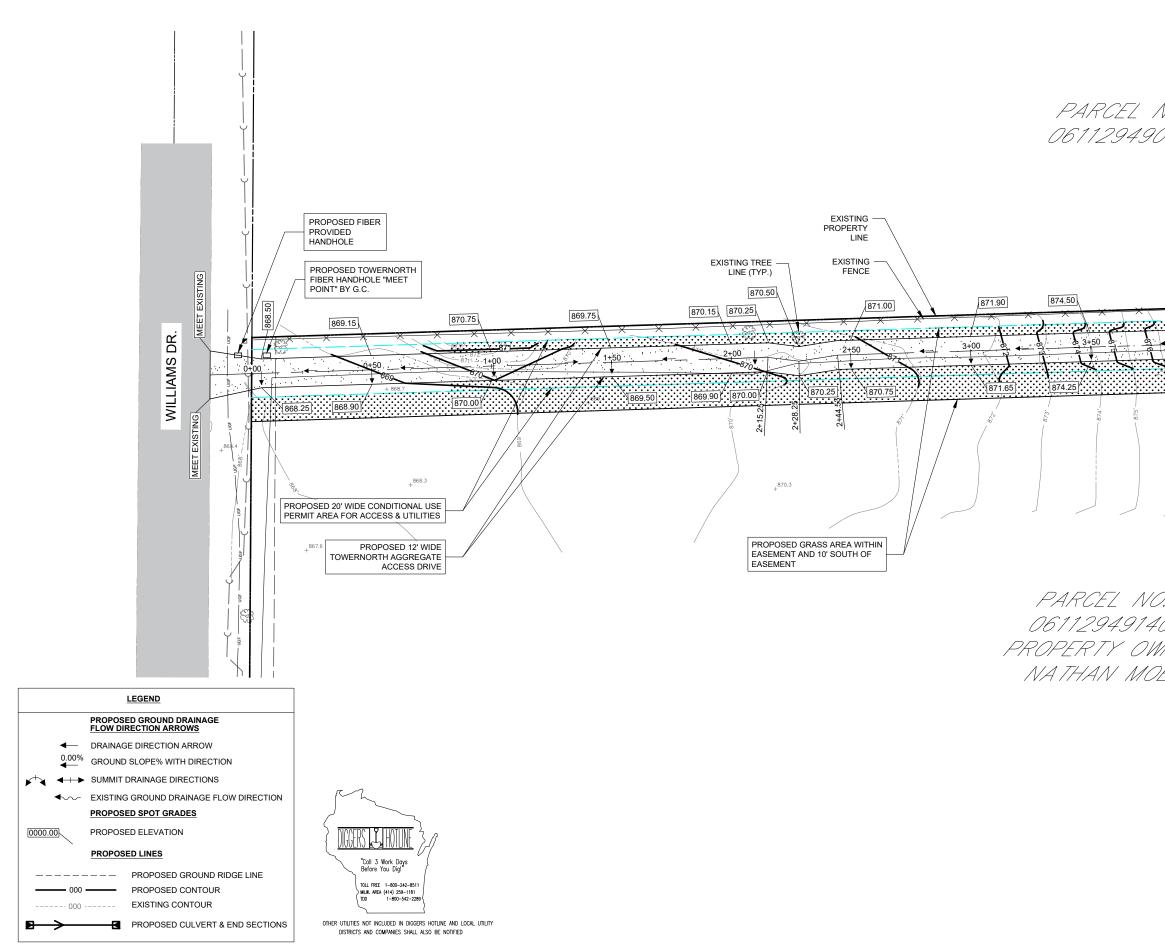
- 1. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING PAVEMENT. CONTRACTOR SHALL PHOTOGRAPH AND VIDEOTAPE EXISTING PAVEMENT PRIOR TO CONSTRUCTION. ANY DAMAGE CAUSED DURING CONSTRUCTION SHALL BE REPLACED TO EXISTING OR BETTER CONDITION AT NO ADDITIONAL COST.
- 2. THE CONTRACTOR WILL, UPON BECOMING AWARE OF SUBSURFACE OR LATENT PHYSICAL CONDITIONS DIFFERING FROM THOSE DISCLOSED BY THE ORIGINAL SOIL INVESTIGATION WORK, PROMPTLY NOTIFY THE OWNER VERBALLY AND IN WRITING, AS TO THE NATURE OF THE DIFFERING CONDITIONS. NO CLAIM BY THE CONTRACTOR FOR ANY CONDITIONS DIFFERING FROM THOSE ANTICIPATED IN THE PLANS AND SPECIFICATIONS AND DISCLOSED BY THE SOIL STUDIES WILL BE ALLOWED UNLESS THE CONTRACTOR HAS SO NOTIFIED THE OWNER, VERBALLY AND IN WRITING, AS REQUIRED ABOVE, OF SUCH DIFFERING SUBSURFACE CONDITIONS.
- 3. CONTRACTOR TO PROVIDE APPROXIMATE 50'X50' STAGING AREA AND TEMPORARY ROAD. CONTRACTOR SHALL COORDINATE WITH ANTENNA CONTRACTOR, A STAGING AREA AND TEMPORARY ROAD THAT IS ACCEPTABLE TO THE OWNER. STAGING AREA AND TEMPORARY ROAD SHALL BE RESTORED TO EXISTING CONDITIONS AS NECESSARY UPON COMPLETION OF THE PROJECT.
- 4. BEFORE AND DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ADEQUATE EROSION CONTROL AS NECESSARY IN THE FORM OF SILT FENCES FOR THE SITE AND BALES AROUND ANY EXISTING MANHOLES, INLETS, OR CATCH BASINS SUSCEPTIBLE TO EROSION. EROSION CONTROL MEASURES SHALL BE PERIODICALLY INSPECTED TO ENSURE PROPER FUNCTION. EROSION CONTROL SHALL BE REMOVED UPON COMPLETION OF WORK.



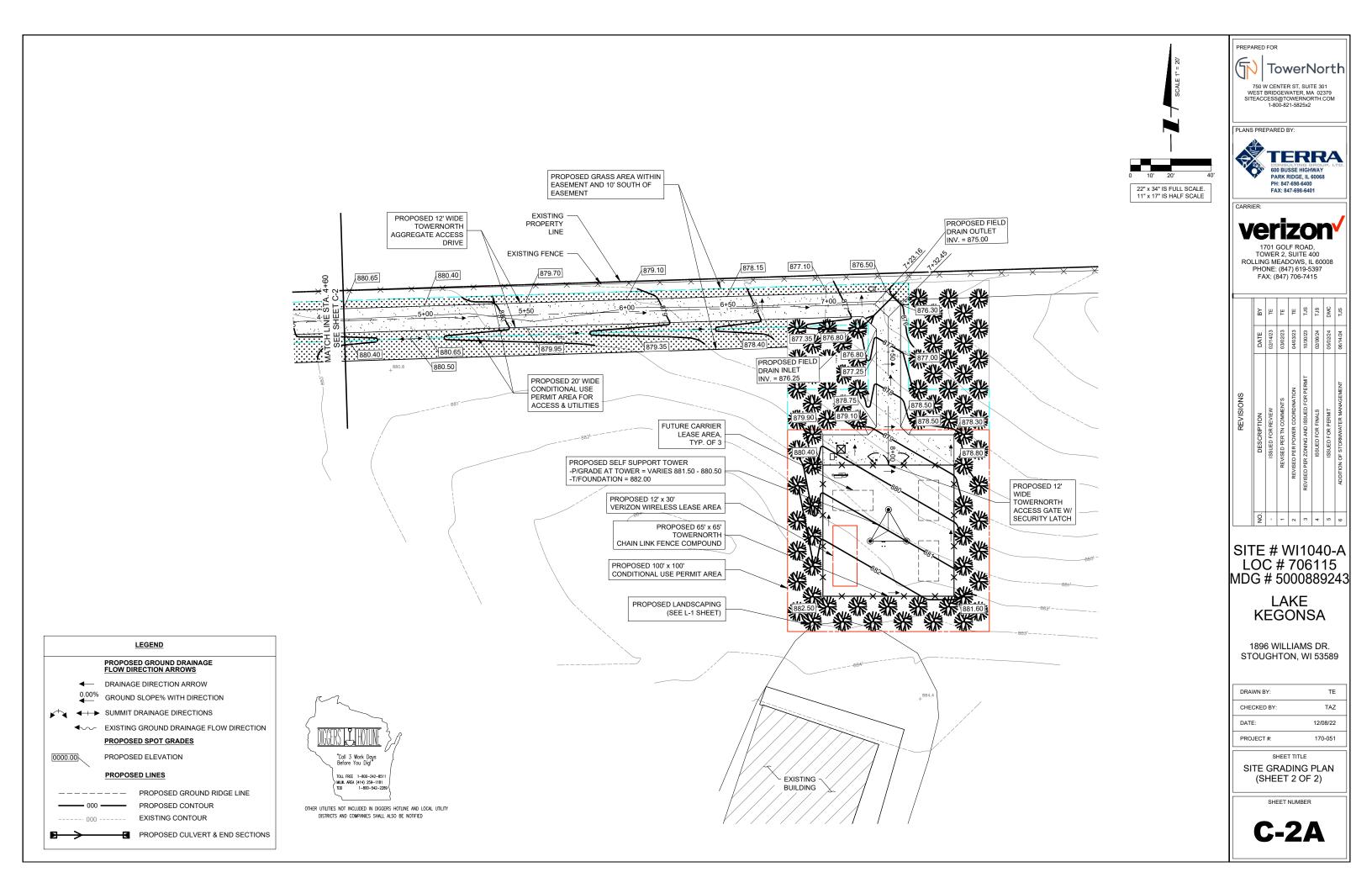
OTHER UTILITIES NOT INCLUDED IN DIGGERS HOTLINE AND LOCAL UTILITY DISTRICTS AND COMPANIES SHALL ALSO BE NOTIFIED 0VERALL LOCATION PLAN SCALE: 1" = 200'

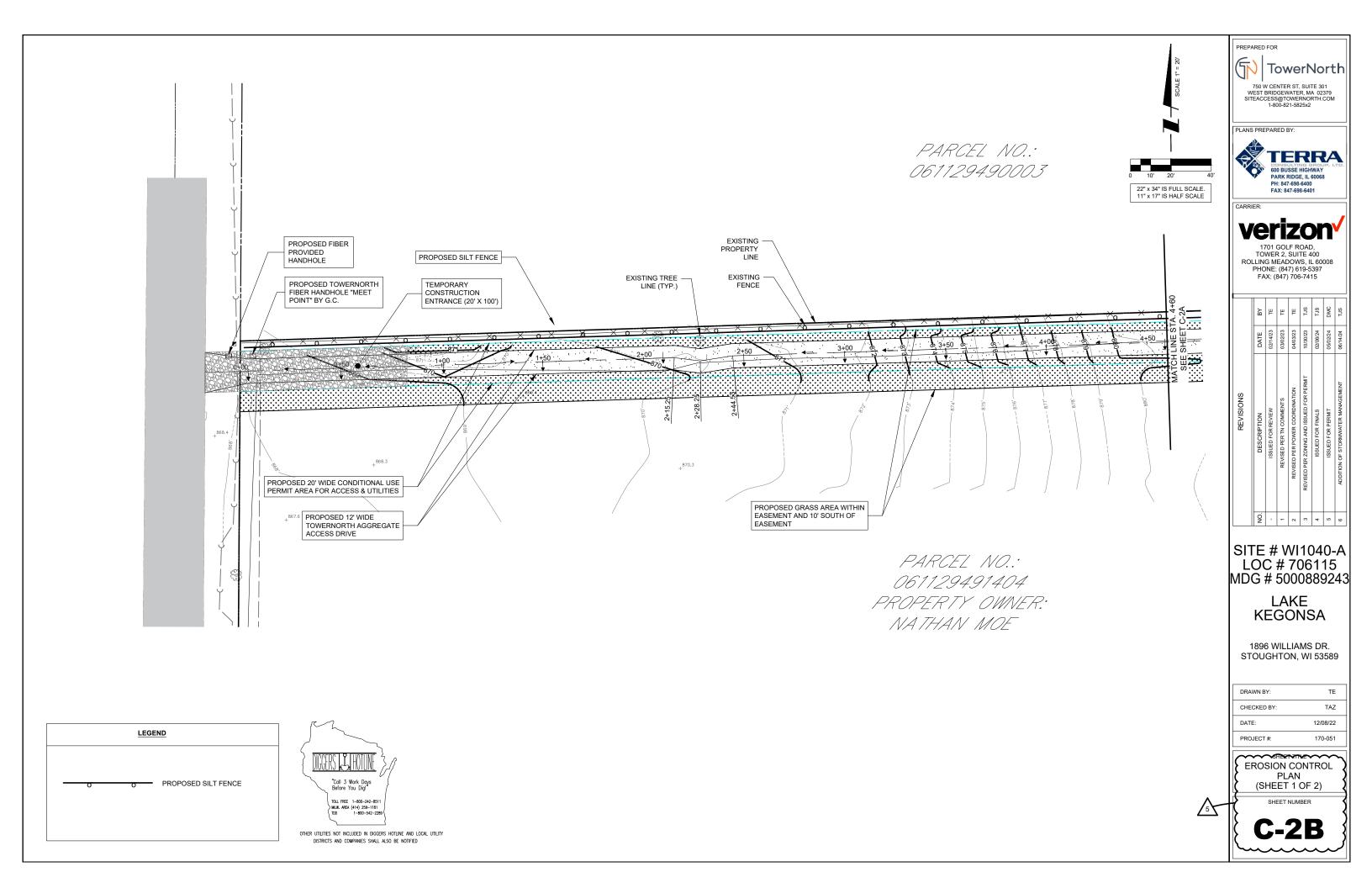


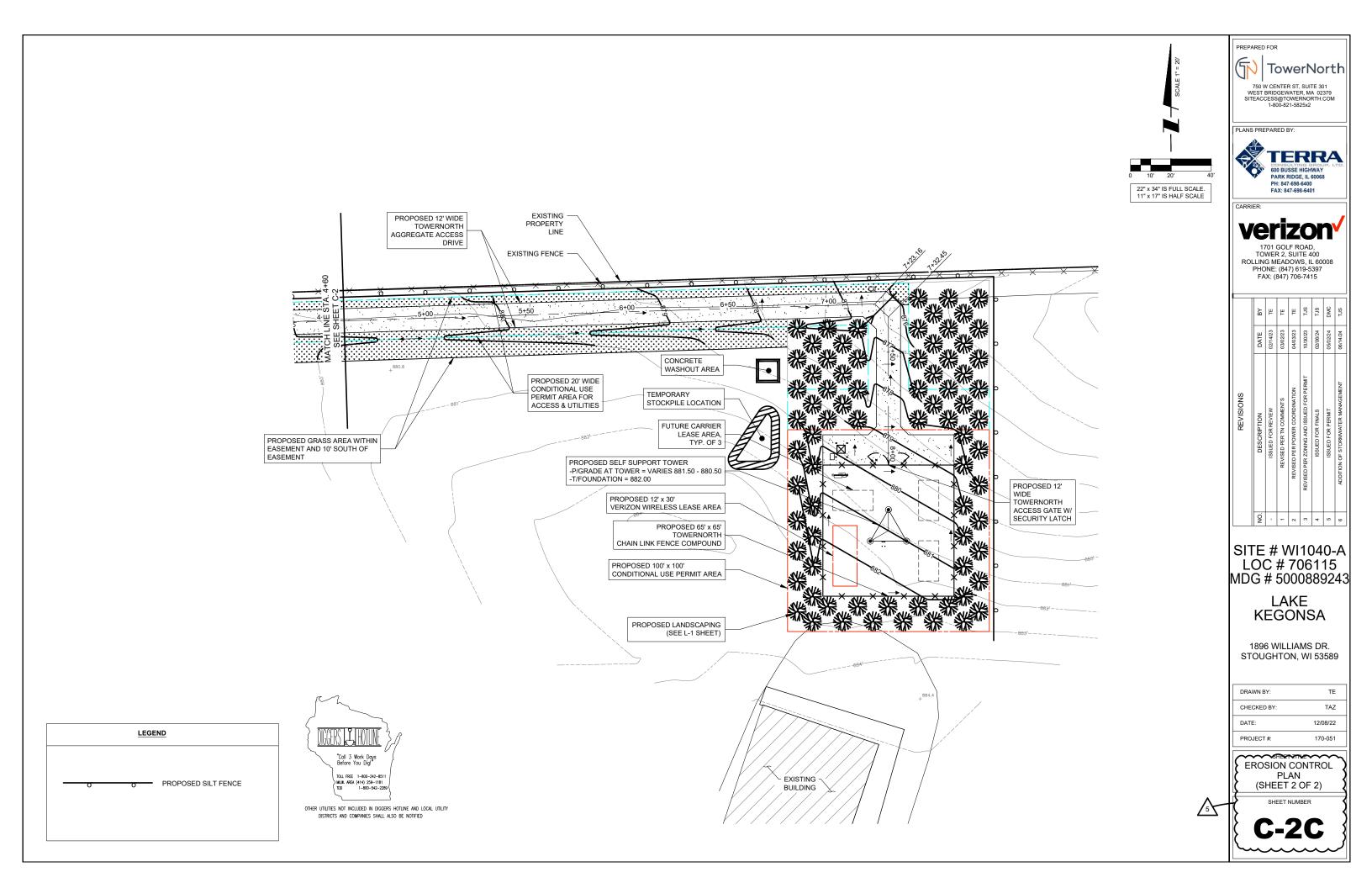


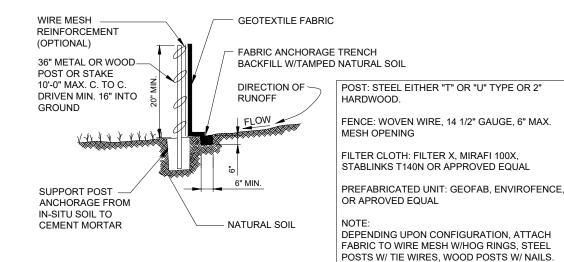


	SCALE 1" = 20'	PREP.	ARED			R ST, /ATE	r, m Rnoi	TE 30 A 02	01 379	
N O: 1003	0 10' 20' 40' 22" x 34" IS FULL SCALE. 11" x 17" IS HALF SCALE	PLANS		60 PA PH	0 BU 0 RK F	SSE RIDGI 7-698	HIGH E, IL 0 -6400 8-640	6006		
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877.75	50 + 4 + 90		BY	₽	Ľ	₽	TJS	TJS	DMC	TJS
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GEOTEXTILE PARAMETERS PROPERTY MINIMUM VALUE (a) TEST METHOD GRAB STRENGTH 180 LBS ASTM D-4632-91 PUNCTURE STRENGTH 75 LBS. ASTM D-4833-88 BURST STRENGTH 290 LBS. ASTM D-3786 ASTM D-4571-87 TRAPEZOIDAL TEAR 50 LBS.

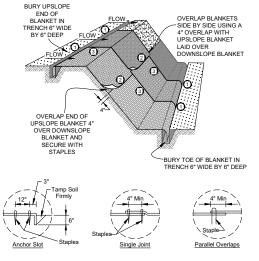
(a) ALL VALUES REPRESENT MINIMUM ROLL VALUES

NOTES:

THE FABRIC SHOULD BE PLACED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. INTERSECTIONS OF SHEETS MUST BE SOWN OR SUFFICIENTLY OVERLAPPED (AT LEAST 24 INCHES) OR AS SPECIFIED BY THE MANUFACTURER). THE GEOTEXTILE SHEETS SHOULD ALSO BE PLACED TAUT TO REDUCE WRINKLES OR FOLDS. CARE MUST BE EXERCISED TO PREVENT PHYSICAL DAMAGE OF THE GEOTEXTILE PRIOR TO, DURING AND AFTER INSTALLATION. UTILITIES SHOULD BE INSTALLED BEFORE PLACING THE FABRIC.

EROSION CONTROL SILT FENCE DETAIL





DETAIL 1 DETAIL 2

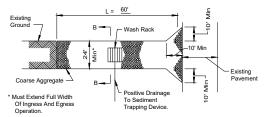


DETAIL 3

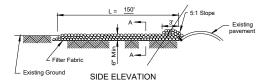
NOTES

- Staples shall be placed in a diamond pattern at 2 per s.y. for stiched blankets. Non-stiched shall use 4 staples per s.y. of material. This equates to 200 staples with stiched blanket and 400 staples with non-stiched blanket per 100 s.y. of material.
- 2. Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
- 3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
- 4. All anchor slots shall be stapled at approximately 12" intervals

EROSION CONTROL BLANKET INSTALLATION DETAILS (IF APPLICABLE)



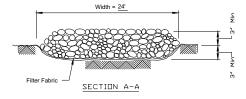
PLAN VIEW



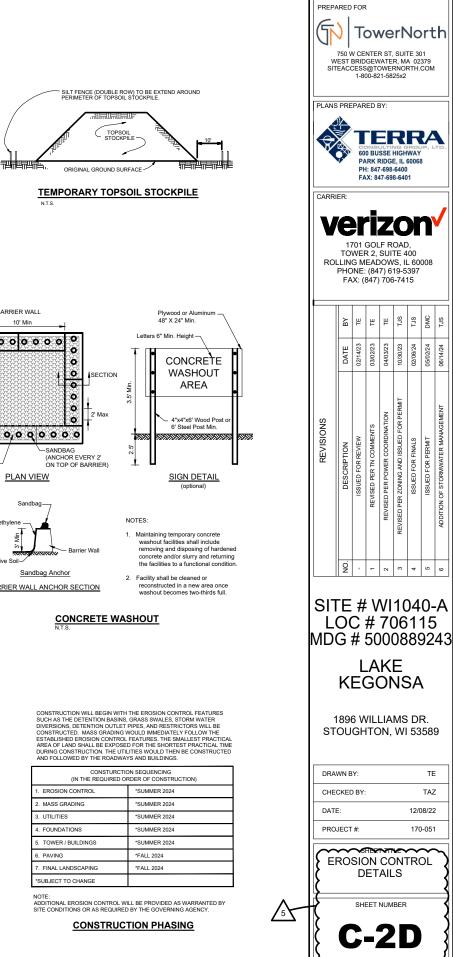
NOTES

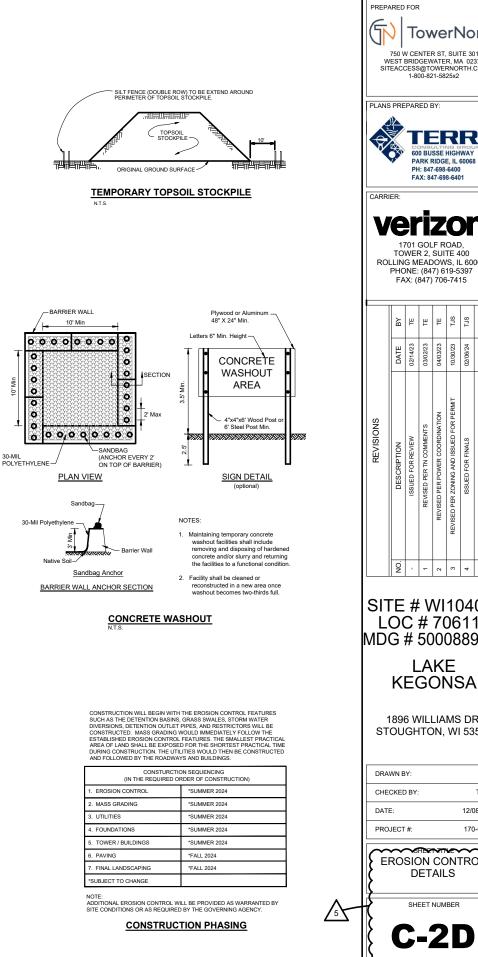
- NOTES: 1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock. 2. Rock or redaimed concrete shall meet one of the following IDOT coarse aggregate gradiation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class II composition

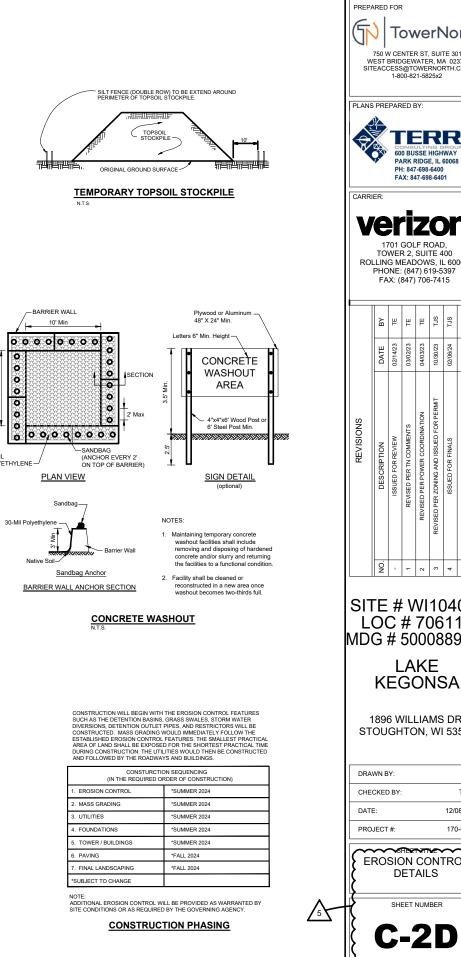
- and Class III compaction. 3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications. 4. If wash racks are used they shall be installed according to the manufacturer's specifications.

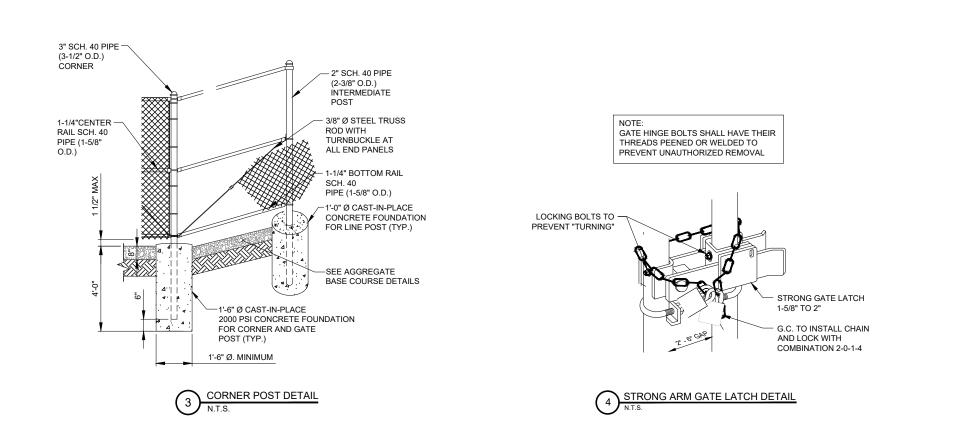


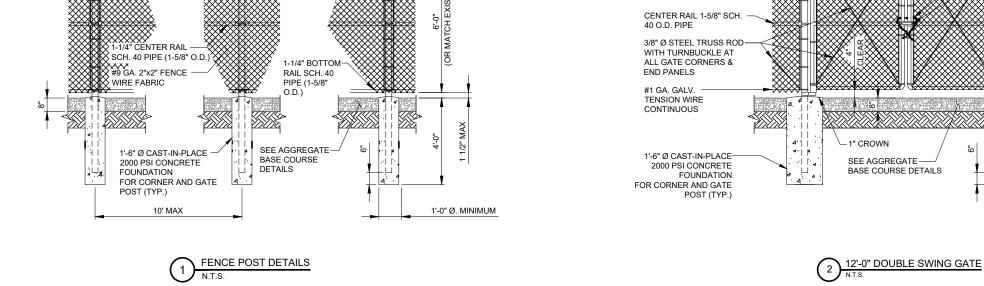
CONSTRUCTION ENTRANCE

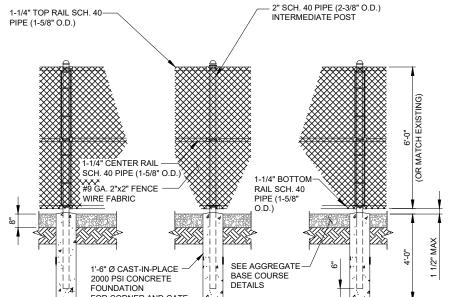


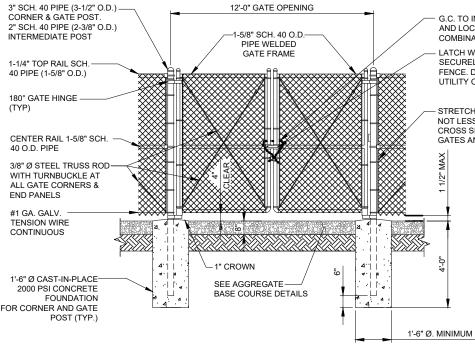












G.C. TO INSTALL CHAIN AND LOCK WITH COMBINATION 2-0-1-4

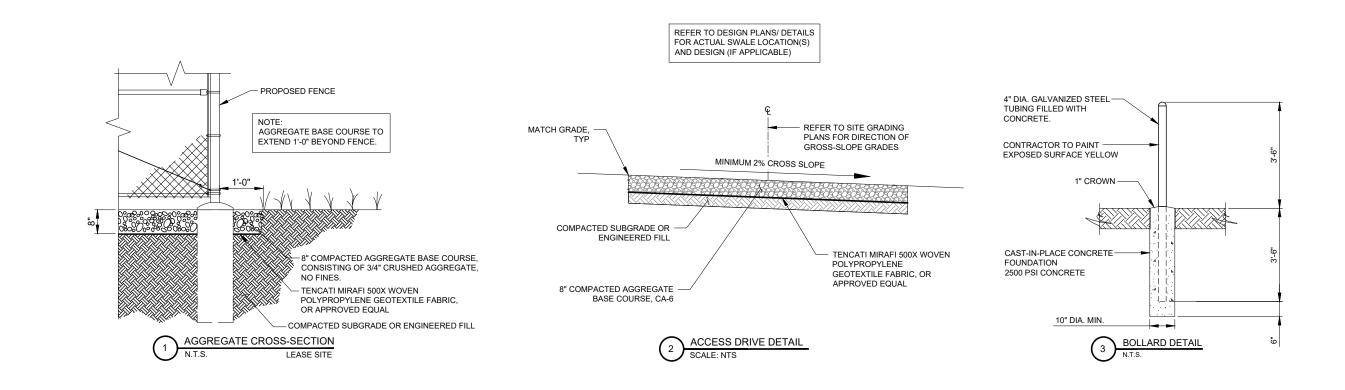
- LATCH WITH CHAIN SECURELY FASTENED TO FENCE. DOUBLE LOCK FOR UTILITY CO. ACCESS

STRETCHER BAR, FULL HEIGHT, NOT LESS THAN 3/16" x 3/4" MIN. CROSS SECTION ALL ALL GATES AND CORNER POST



OTHER UTILITIES NOT INCLUDED IN DIGGERS HOTLINE AND LOCAL UTILITY DISTRICTS AND COMPANIES SHALL ALSO BE NOTIFIED

	PRE		OV NTE GEV S@T(00-82	R ST. VATE 21-58 3Y: SSE RIDG 7-698 47-69	, SUI R, M RNO 25x2 HIGH E, IL -6400 8-640	TE 3(A 02 RTH.	JP, L			
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REVISIONS	DESCRIPTION	ISSUED FOR REVIEW	REVISED PER TN COMMENTS	REVISED PER POWER COORDINATION	REVISED PER ZONING AND ISSUED FOR PERMIT	ISSUED FOR FINALS	ISSUED FOR PERMIT	ADDITION OF STORMWATER MANAGEMENT		
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SITE # WI1040-A LOC # 706115 MDG # 5000889243 LAKE KEGONSA										
DRAWN BY: TE CHECKED BY: TAZ DATE: 12/08/22										
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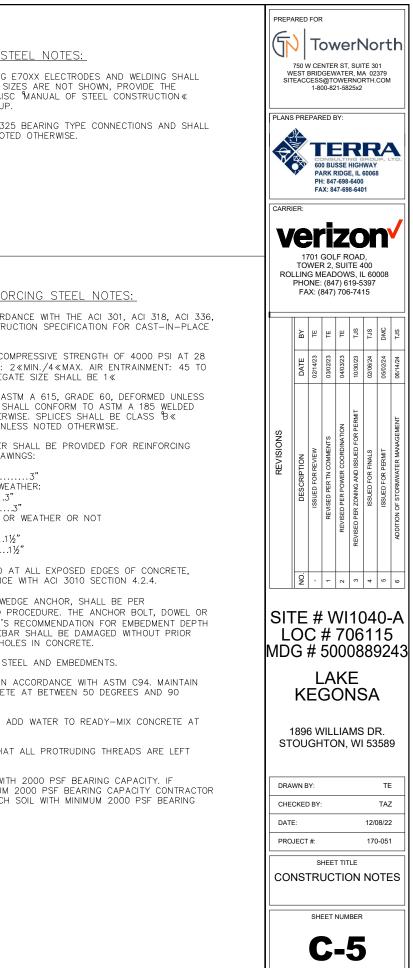




OTHER UTILITIES NOT INCLUDED IN DIGGERS HOTLINE AND LOCAL UTILITY DISTRICTS AND COMPANIES SHALL ALSO BE NOTIFIED

PREPA		FOF								
750 W CENTER ST, SUITE 301 WEST BRIDGEWATER. MA 02379										
WEST BRIDGEWATER, MA 02379 SITEACCESS@TOWERNORTH.COM 1-800-821-5825x2										
PLANS PREPARED BY:										
TERRA CONBULTING GROUP, LTD. 600 BUSSE HIGHWAY										
		PH	1: 847	RIDG 7-698 47-69	-6400)	3			
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	GENERAL NOTES:		SITE WORK GENERAL NOTES:		STRUCTURAL STEE
	FOR THE PURPOSE OF THE CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY: CONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION) TOWER OWNER – TOWERNORTH DEVELOPMENT, LLC PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY		THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION. 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 ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATION OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY	1.	ALL WELDING SHALL BE PERFORMED USING E70 CONFORM TO AISC. WHERE FILLET WELD SIZES MINIMUM SIZE PER TABLE J2.4 IN THE AISC M PAINTED SURFACES SHALL BE TOUCHED UP. BOLTED CONNECTIONS SHALL BE ASTM A325 BE HAVE MINIMUM OF TWO BOLTS UNLESS NOTED (
	DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND		 D) TRENCHING & EXCAVATION. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH 		
5.	APPLICABLE REGULATIONS. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.	6.	THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF OWNER AND/OR LOCAL UTILITIES. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.	1.	CONCRETE AND REINFORCII ALL CONCRETE WORK SHALL BE IN ACCORDANC ASTM A184 AND THE DESIGN AND CONSTRUCTIO CONCRETE.
6. 7.	THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY		THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER EQUIPMENT AND TOWER AREAS. NOFILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.	2.	ALL CONCRETE SHALL HAVE A MINIMUM COMPR DAYS, UNLESS NOTED OTHERWISE, SLUMP: 2«M 6% BY VOLUME. MAXIMUM COARSE AGGREGATE
8.	THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE ENGINEER. CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER, FIBER, AND GROUNDING CABLES AS SHOWN ON THE POWER & GROUNDING DRAWINGS.	9.	THE SUB GRADE UNDER THE PROPOSED EQUIPMENT PAD SHALL BE COMPACTED TO 95% PROCTOR AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED	3.	REINFORCING STEEL SHALL CONFORM TO ASTM NOTED OTHERWISE. WELDED WIRE FABRIC SHALL STEEL. WIRE FABRIC UNLESS NOTED OTHERWISE. AND ALL HOOKS SHALL BE STANDARD, UNLESS THE FOLLOWING MINIMUM CONCRETE COVER SHA
9.	THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS		BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.		STEEL UNLESS SHOWN OTHERWISE ON DRAWING CONCRETE CAST AGAINST EARTH CONCRETE EXPOSED TO EARTH OR WEATHE #6 AND LARGER
11.	CONTRACTOR SHALL LEGALLT AND FROFENET DISPOSE OF ALL SCRAF MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.		CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.		#5 AND SMALLER & WWF
	ASPECTS OF THE CONSTRUCTION SCOPE OF THIS DRAWING TO ENSURE HE IS FAMILIAR AND UNDERSTANDS ALL REQUIREMENTS AND INTENT OF EACH ACTIVITY. THE GENERAL CONTRACTOR MUST VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE STARTING WORK. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND SHALL BE RESOLVED BEFORE PROCEEDING				A CHAMFER OF 3/4° SHALL BE PROVIDED AT A UNLESS NOTED OTHERWISE. IN ACCORDANCE WI INSTALLATION OF CONCRETE EXPANSION/WEDGE MANUFACTURER'S WRITTEN RECOMMENDED PROC ROD SHALL CONFORM TO MANUFACTURER'S REC
14.	WITH THE WORK. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES. IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETE INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORMWORK, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL ORDINANCES, TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR				OR AS SHOWN ON THE DRAWINGS. NO REBAR S CONTRACTOR APPROVAL WHEN DRILLING HOLES WELDING IS PROHIBITED ON REINFORCING STEEL ALL CONCRETE SHALL BE READY-MIXED IN ACC TEMPERATURE OF CAST IN PLACE CONCRETE A
15.	SAME. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES. THE CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS, AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.				DEGREES. DO NOT USE RETEMPERED CONCRETE, OR ADD THE JOBSITE. FOUNDATION INSTALLER SHALL INSURE THAT AL CLEAN AND FREE OF CONCRETE.
16.	CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.			11.	FOUNDATION DESIGN IS BASED ON SOIL WITH 20 EXISTING SOIL DOES NOT HAVE A MINIMUM 200 SHALL EXTEND PERIMETER BEAM TO REACH SOI CAPACITY.



G.C. TO PROVIDE AND INSTALL ALL SIGNS UNLESS OTHERWISE NOTED.

8"

APPLICABLE TO ALL: THICKNESS IS .063" THICK AND THE MATERIAL IS ALUMINUM LOGO STANDARD: MKTG_TOWERNORTH_LOGO_VS01.0_05-15-2024 BRAND GUIDELINES: MKTG_TOWERNORTH_BRAND_GUIDELINES_VS01.0_05-15-2024



12"

FCC REGISTRATION SIGN

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



14"

AUTHORIZED PERSONNEL SIGN WHITE/BLACK/RED BACKGROUND, WHITE/ BLACK LETTERING. MOUNTING: GATE QUANTITY: 1 WHEN AN ENTRANCE TO THE ACCESS ROAD INCLUDES A GATE, QUANTITY SHOULD BE 2.



On this tower: Radio frequency (RF) fields near some antennas *may exceed* the FCC Occupational Exposure Limits. Personnel should be trained and use a personal RF monitor when working.

14"

10"

RFE CAUTION SIGN

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



18"

TOWERNORTH SIGN WHITE/BLACK BACKGROUND, BLUE LETTERING (see standards.

12"

MOUNTING LOCATION: GATE QUANTITY: 1 WHERE AN ENTRANCE TO THE ACCESS ROAD INCLUDES A GATE, QUANTITY SHOULD BE 2.

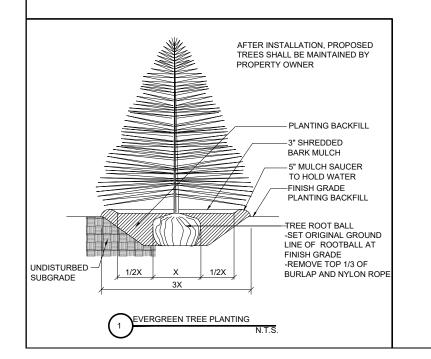
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PLANS PREPARED BY: TERREA CONBULTING GROUP, LTD. 600 BUSSE HIGHWAY PARK RIDGE, IL 60068 PH: 847-698-6401 FAX: 847-698-6401											
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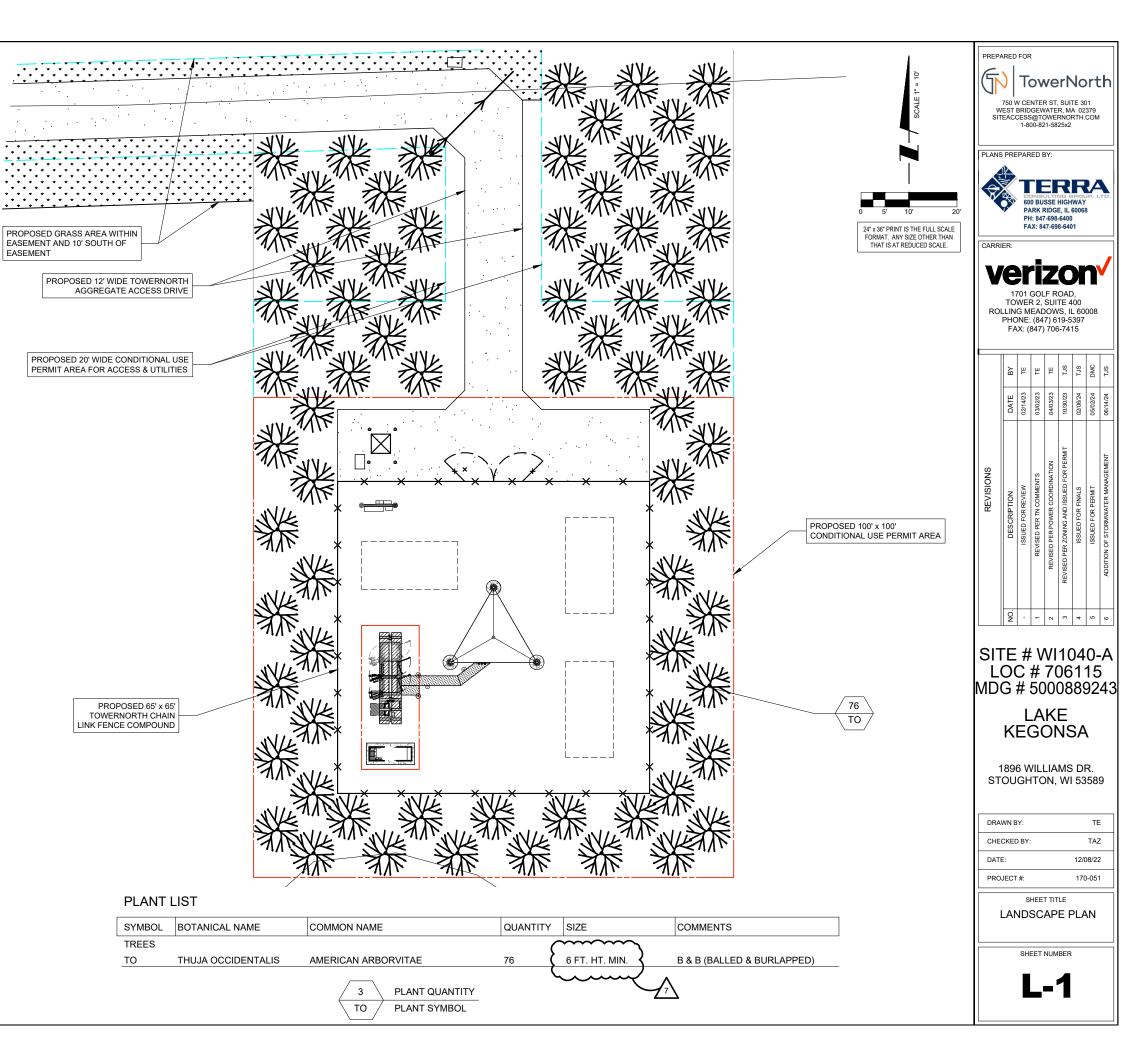
GENERAL LANDSCAPE NOTES

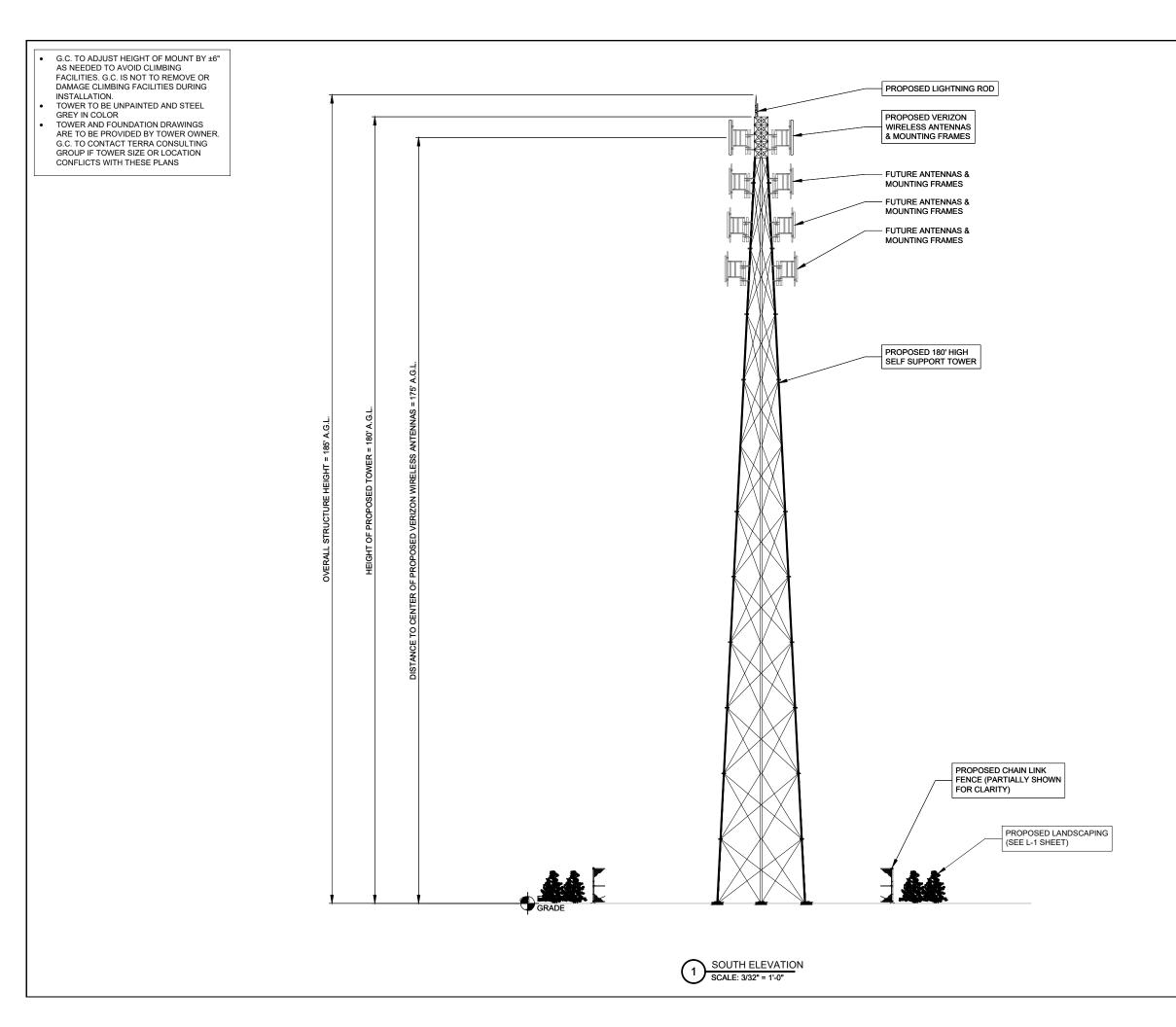
- 1. PRUNE NEWLY INSTALLED SHRUBS. WORK SHALL BE DONE BY EXPERIENCED PERSONNEL TO THE ACCEPTED HORTICULTURAL AND ARBORICULTURAL STANDARDS. PRUNING SHALL RESULT IN A LOOSE OUTLINE CONFORMING TO THE GENERAL SHAPE OF THE SHRUB TYPE. DO NOT USE HEDGE SHEARS.
- 2. ALL PLANTING STOCK SHALL BE NURSERY-GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE. PLANTS SHALL BE FREE OF DISEASE, INSECTS EGGS, LARVAE AND DEFECTS SUCH AS KNOTS, SUN-SCALD, INJURIES, ABRASIONS OR DISFIGUREMENT. THEY SHALL HAVE SOUND, HEALTHY VIGOROUS AND UNIFORM GROWTH TYPICAL OF THE SPECIES AND VARIETY, WELL-FORMED, FREE FROM IRREGULARITIES, WITH THE MINIMUM QUALITY AND SIZE CONFORMING TO AMERICAN STANDARD FOR NURSERY STOCK.
- 3. GUARANTEE: WARRANT ALL PLANT MATERIAL TO BE TRUE TO BOTANICAL NAME AND SPECIFIED SIZE. AFTER COMPLETION OF PLANTING, ALL PLANT MATERIALS SHALL BE WARRANTED AGAINST DEFECTS, INCLUDING DEATH AND UNSATISFACTORY GROWTH FOR A WARRANTY PERIOD OF ONE YEAR. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR DEFECTS RESULTING FROM NEGLECT ABUSE, DAMAGE BY OTHERS, OR UNUSUAL PHENOMENA OR INCIDENTS BEYOND THE CONTRACTORS CONTROL WHICH RESULT FROM NATURAL CAUSES SUCH AS FLOODS STORMS, FIRES OR VANDALISM. REPLACEMENTS: DURING THE WARANTY PERIOD, REPLACE ONE TIME, AT NO

ADDITIONAL COST TO THE OWNER, PLANT MATERIALS THAT ARE DEAD, OR IN THE OPINION OF THE LANDSCAPE ARCHITECT, IN AN UNHEALTHY OR UNSIGHTLY CONDITION. REJECTED PLANT MATERIALS SHALL BE REMOVED FROM THE SITE AT CONTRACTOR'S EXPENSE. REPLACEMENTS ARE TO BE MADE NO LATER THAN THE SUBSEQUENT PLANTING SEASON. RESTORE AREAS DISTURBED BY REPLACEMENT OPERATIONS.

- 4. MULCHING SHALL BE DONE WITHIN 48 HOURS AFTER PLANTING. MULCH SHRUB BEDS TO A UNIFORM DEPTH OF THREE INCHES. MULCH SHALL BE CLEAN COMPOSTED PINE BARK MULCH FREE OF FOREIGN MATERIAL AND LARGE PIECES OVER THREE INCHES LONG. DO NOT MULCH TREE AND SHRUB PLANTING PITS.
- 5. TOPSOIL SHALL CONSIST OF FERTILE FRIABLE NATURAL LOAM, CONTAINING A LIBERAL AMOUNT OF HUMUS AND SHALL BE SUBJECT TO INSPECTION AND APPROVAL. IT SHALL BE FREE OF ADMIXTURES OF SUBSOIL AND FREE OF CRAB GRASS, ROOTS, STICKS AND OTHER EXTRANEOUS MATTER, AND SHALL NOT BE USED FOR PLANTING OPERATIONS WHILE IN A FROZEN OR MUDDY CONDITIONS.
- 6. REPAIR ALL TURF AREAS BY SEEDING. SEEDING INSTALLATION SHALL BE EXECUTED ONLY AFTER ALL FINISH GRADING HAS BEEN COMPLETED. NO SEEDING WORK SHALL BE DONE PAST SEPTEMBER 15, UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE. SEED: SEED MIX SHALL MATCH EXISTING TURF, OR BE A 50/50 MIX OF CERTIFIED IMPROVED BLEND OF BLUEGRASS AND CERTIFIED IMPROVED PERENNIAL RYE. MIX SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO PLANTING. SEEDING SHALL BE APPLIED AT A MINIMUM RATE OF 120 POUNDS PER ACRE. FUTERRA BLANKET, OR EQUAL, SHALL BE USED FOR EROSION CONTROL MULCH WHERE NECESSARY IN LIEU OF HYDRO MULCH.







22" x 34" PRINT IS THE FULL SCALE FORMAT. ANY SIZE OTHER THAN THAT IS AT REDUCED SCALE. PLANS PREPARED BY: VEST BRIDGEWATER, MA 02379 SITEACCESS@TOWERNORTH.COM 1-800-821-5825x2 PLANS PREPARED BY: VEST BRIDGEWATER, MA 02379 SITEACCESS@TOWERNORTH.COM 1-800-821-5825x2 PLANS PREPARED BY: VEST BRIDGEWATER, MA 02379 PLANS PREPARED BY: VEST BRIDGEWATER, MA 02379 SITEACCESS@TOWERNORTH.COM 1-800-821-5825x2 PLANS PREPARED BY: VEST BRIDGEWATER, MA 02379 PARK RIDGE, IL 60068 PH: 847-698-6400 FAX: 847-698-6401 CARRIER: VEST SUBJECTIVE CONSTRUCTION OF COMPLY VIDI GOLF ROAD, TOWER 2, SUITE 400 ROOLLING MEADOWS, IL 60008 PHONE: (847) 706-7415 X X X X X X X X X X X X X X Y Y Y Y Y Y Y Y Y Y Y Y <
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Verizon 1701 GOLF ROAD, TOWER 2, SUITE 400 ROLLING MEADOWS, IL 60008 PHONE: (847) 619-5397 FAX: (847) 706-7415 AB H AB H B
TOWER 2, SUITE 400 ROLLING MEADOWS, IL 60008 PHONE: (847) 706-7415 FAX: (847) 706-7415
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ELECTRICAL INSTALLATION NOTES

- 1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES
- ALL ELECTRICAL EQUIPMENT AND ACCESSORIES SHALL BE U.L. APPROVED OR LISTED. 2.
- CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED. 3
- WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC. 4
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
- 6. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- 7. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, ½ INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NE & OSHA.
- 8. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (IE., PANELBOARD AND CIRCUIT ID'S).
- 9. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
- 10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V. OIL RESISTANT THHN OR THWN-2 OR XHHW-2, STRANDED COPPER CABLE RATED FOR 90'C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- 11. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE USE-2 CABLE (314 AWG OR LARGER), 600 V. OIL RESISTANT RHW-2 OR XHHW-2, STRANDED COPPER CABLE RATED FOR 90'C (WET AND DRY) OPERATION: WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
- 12. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 90'C.
- 13. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
- 14. ELECTRICAL METALLIC TUBING (EMT) OR RIGID METALLIC CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- 15. ELECTRICAL METALLIC TUBING (EMT) OR RIGID METALLIC CONDUIT (RMC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- 16. RIGID NON-METALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR IN ARES OF HEAVY VEHICLE TRAFFIC, GALVANIZED RIGID CONDUIT SHALL BE USED.
- 17. ALL OUTDOOR EXPOSED CONDUIT SHALL BE RMC AND SHALL BE SUPPORTED ADEQUATELY.
- 18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT LTMC) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED. LFMC SHALL CONFORM TO NEC ARTICLE 350.
- 19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
- 20. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
- 21. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- 22. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS
- 23. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- 24. NON-METALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- 25. CONTRACTOR SHALL APPLY FOR ELECTRICAL SERVICE AS SOON AS POSSIBLE AND COORDINATE REQUIREMENTS. SERVICE ROUTING. AND METER SOCKET TYPE WITH LOCAL POWER COMPANY.

ELECTRICAL INSTALLATION NOTES (CONT.)

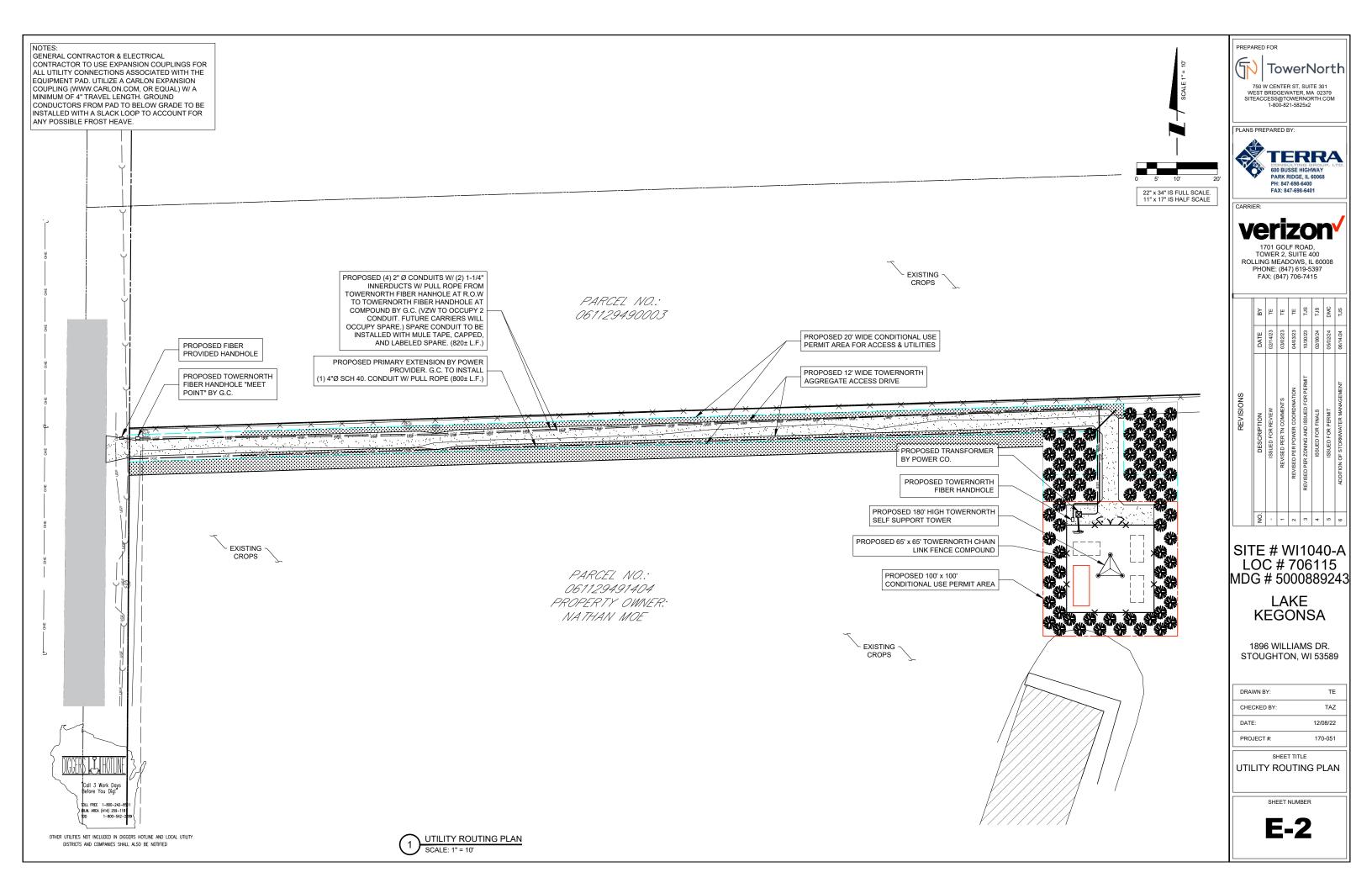
- 26. CONTRACTOR SHALL APPLY FOR TELEPHONE SERVICE AS SOON AS POSSIBLE AND COORE ROUTING WITH TELEPHONE COMPANY.
- 27. CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY PERMIT FEES, AND SCHEDULE INSPECTION
- 28. ALL SAFETY SWITCHES SHALL BE NEMA 1 FOR INDOOR, NEMA 3R FOR OUTDOOR, UL LIST TYPE, WITH RK1 FUSES. FUSES SHALL HAVE AN AIR OF 200K AND SHALL HAVE A LIMITIN DRAWINGS. EQUIPMENT AND ACCESSORIES SHALL BE RATED FOR 75 DEGREES CELSIUS OF
- 29. ALL LOAD CENTERS SHALL BE 42 SPACE UNLESS NOTED OTHERWISE, NEMA 1 FOR INDOO WITH CONVERTIBLE MAINS, UL LISTED 22K IA OR HIGHER SCCR, WITH 22K AIR BREAKERS SHALL BE RATED FOR 75 DEGREES CELSIUS OR HIGHER. BREAKERS SHALL HAVE A LIMITI DRAWINGS.
- 30. CONTRACTOR SHALL LABEL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC 110.16 AN
- 31. CONTRACTOR SHALL VERIFY THAT THE MAIN BONDING JUMPER AND GROUNDING ELECTROL PROPERLY AT SERVICE ENTRANCE.
- 32. CONTRACTOR SHALL SEAL AROUND ALL CONDUIT PENETRATIONS TO PREVENT MOISTURE INFESTATIONS
- 33. DURING TRENCH BACK-FILLING FOR EACH UNDERGROUND ELECTRICAL, TELEPHONE, SIGNA PROVIDE A CONTINUOUS UNDERGROUND WARNING TAPE TWELVE INCHES BELOW FINISHED

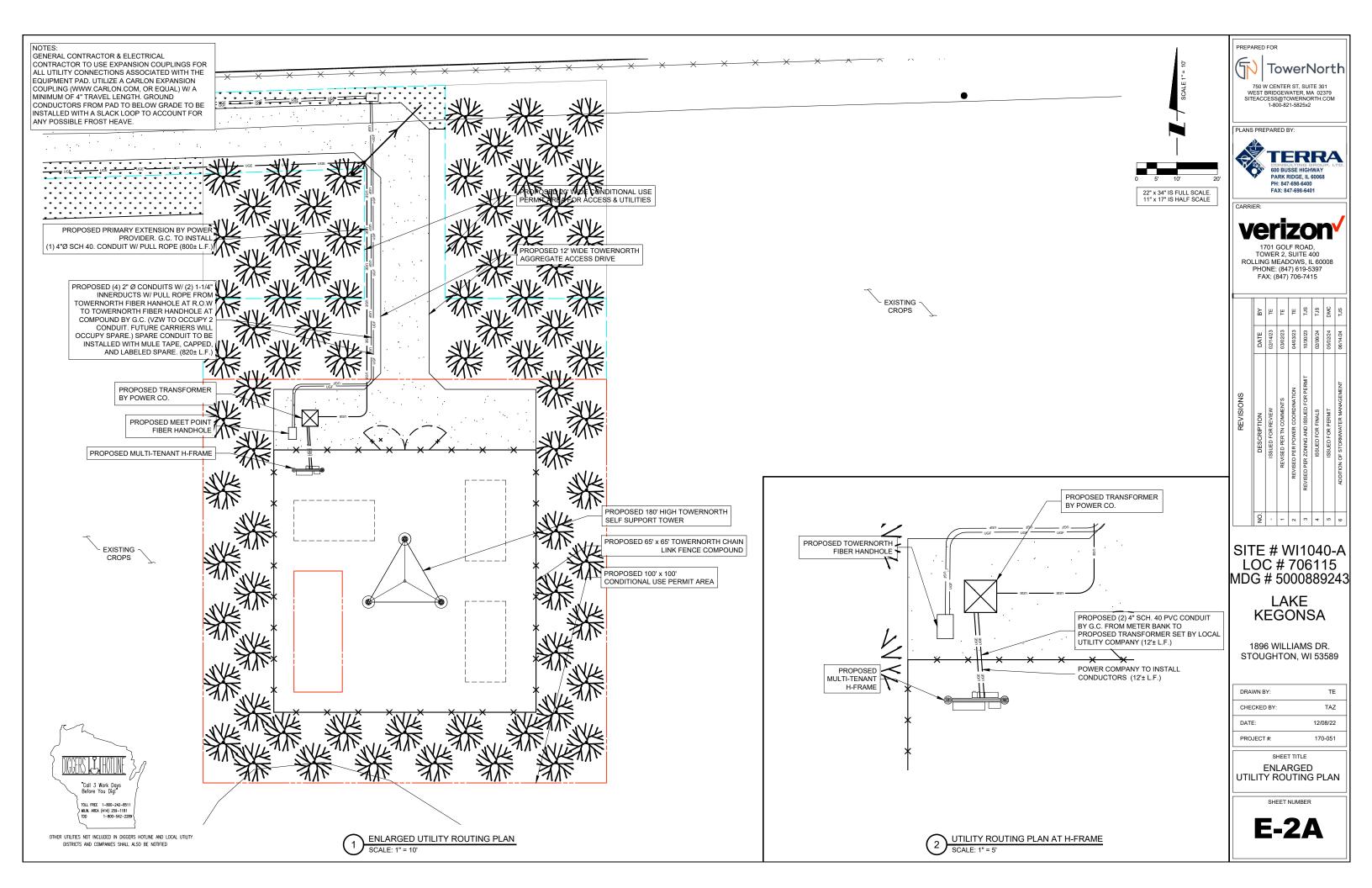
GROUNDING NOTES

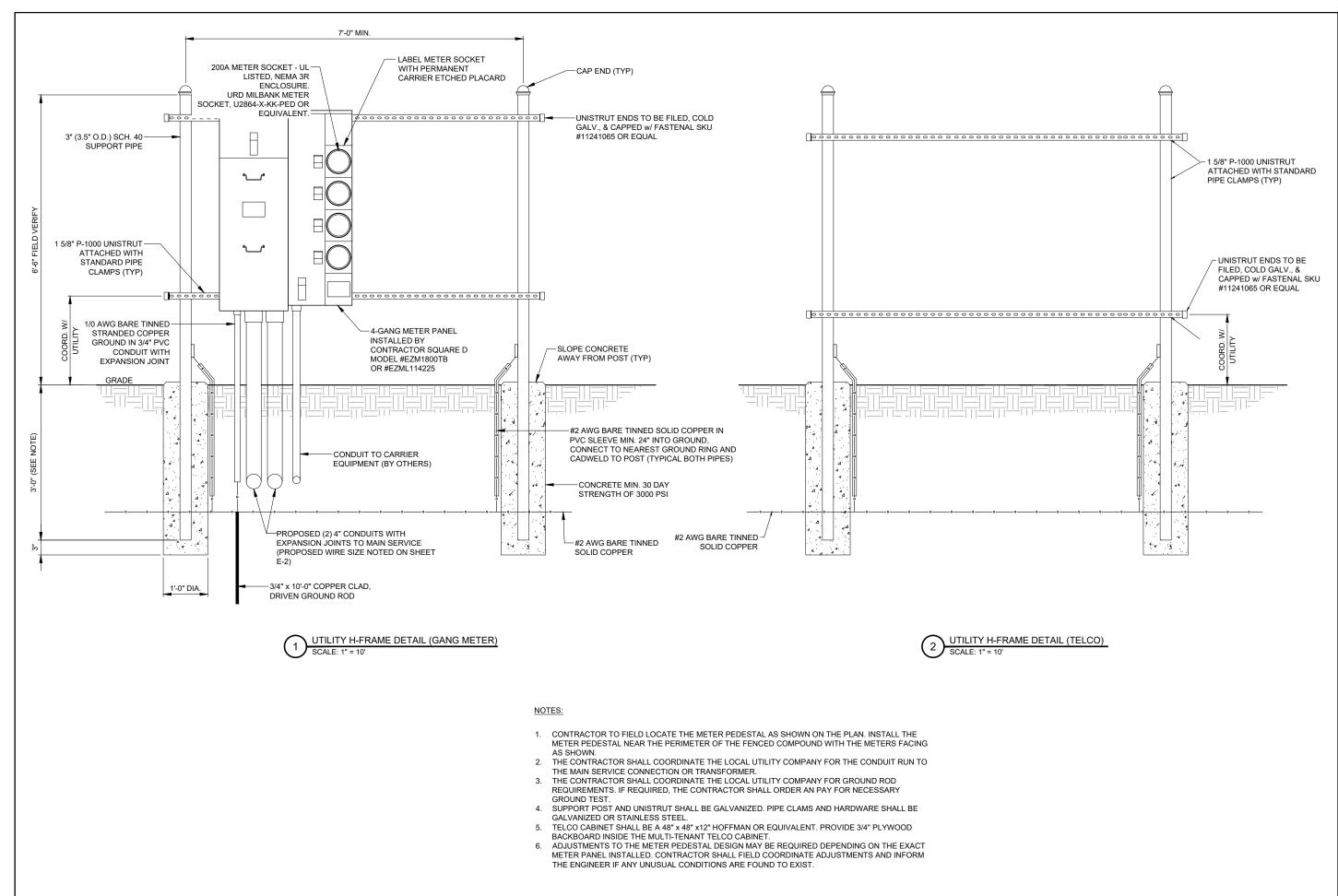
- 1. ALL GROUNDING CONNECTIONS SHALL BE MADE USING EXOTHERMIC WELDING PROCESS (C. THAT MAY BE MECHANICALLY FASTENED. ALL LUGS SHALL BE TWO HOLE, LONG BARREL NOTED
- 2. ALL GROUND PLATES SHALL BE INSTALLED AT 30' BELOW GRADE PER MANUFACTURER'S CONDUCTORS SHALL BE 30' BELOW GRADE.
- 3. ALL GROUND CONDUCTORS SHALL BE MIN. #2 AWG SOLID TINNED COPPER WIRE BARE. EQUIPMENT GROUND CONDUCTORS SHALL BE MIN. #6 GREEN INSULATED, UNLESS OTHERWISE NOTED.
- 4. GROUND PLATES FOR GROUND RING SHALL BE LOCATED 5'-0' APART.
- 5. ANY METAL OBJECT WITHIN 6 FEET OF THE TOWER OR EQUIPMENT GROUND RING SHALL BE BONDED DIRECTLY TO THE RING.
- 6. THE MINIMUM BENDING RADIUS FOR ALL GROUNDING CONDUCTORS #6 AWG OR LARGER SHALL BE 247.
- 7. ALL ABOVE GRADE GROUND CONDUCTORS SHALL BE ROUTED DOWNWARD TOWARD EARTH AND HORIZONTAL ONLY WHERE NECESSARY.
- 8. ALL CONDUCTORS SHALL BE ROUTED SUCH THAT THERE ARE NO INCLUSIVE ANGLES OF LESS THAN 90 DEGREES.
- 9. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A RECOMMENDED TEST RESULT OF 5 OHMS OR LESS.
- 10. ALL GROUNDING SHALL COMPLY WITH THE N.E.C. AND NFPA 780, "LIGHTING PROTECTION CODE".
- 11. ALL GROUNDING COMPONENTS SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR.
- 12. ANY METAL CONDUIT MOUNTED ON THE TOWER SHALL BE BONDED TO THE TOWER AT EACH END.
- 13. ALL EXPOSED GROUNDING SHALL BE IN NON-METALLIC FLEX CONDUIT AND SECURED AS NECESSARY.
- 14. WHEN BONDING TO EQUIPMENT, REMOVE PAINT TO BARE STEEL AND PROTECT WITH A COATING OF NO-OX.
- 15. APPROVED ANTIOXIDANT COATINGS SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- 16. BOND ICE BRIDGE SECTIONS TOGETHER EXOTHERMICALLY OR WITH 2 HOLE LUGS. BOND ICE BRIDGE TO SUPPORT POSTS.

DINATE REQUIREMENTS AND SERVICE
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DR, NEMA 3R FOR OUTDOOR, MCB 6, BREAKERS AND LOAD CENTER ING RATING AS SPECIFIED ON THESE
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CAD WELD OR EQUAL) EXCEPT FOR EQUIPMENT TYPE, FOR COPPER, UNLESS OTHERWISE
SPECIFICATIONS. UNDERGROUND GROUNDING

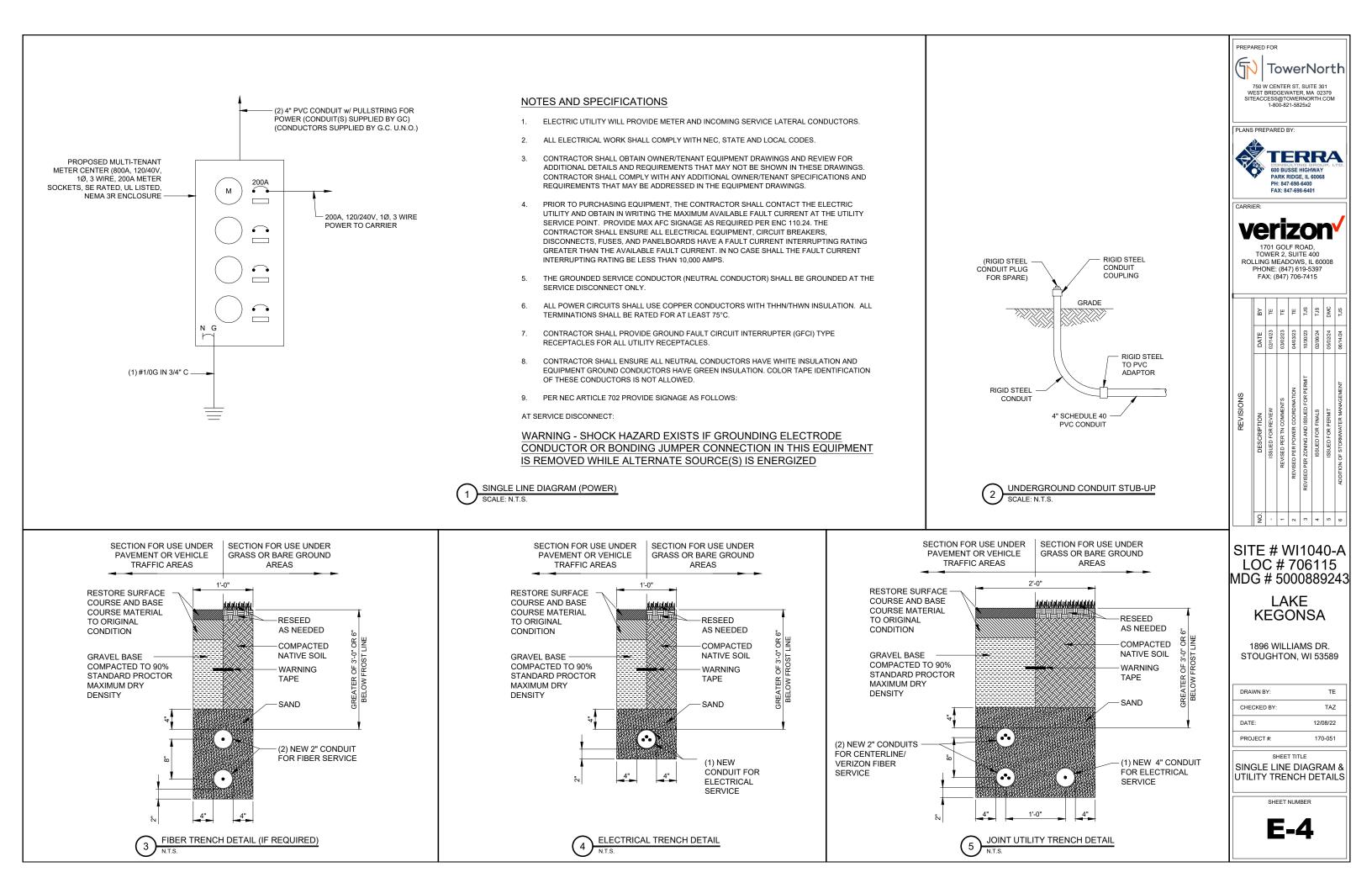
PREPARED FOR TowerNorth 750 W CENTER ST, SUITE 301 WEST BRIDGEWATER, MA 02379 SITEACCESS@TOWERNORTH.COM 1-800-821-5825x2 PLANS PREPARED BY:										
TERREAL CONBULTING GROUP, LTD. 600 BUSSE HIGHWAY PARK RIDGE, IL 60068 PH: 847-698-6400 FAX: 847-698-6401										
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SITE # WI1040-A LOC # 706115 MDG # 5000889243 LAKE KEGONSA 1896 WILLIAMS DR. STOUGHTON, WI 53589										
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TYPICAL KEYED GROUNDING NOTES (-)

- 1 #2 AWG TNND SOLID BARE COPPER CONDUCTOR 42" BELOW GRADE (TYPICAL) MINIMUM 24" BENDING RADIUS
- 2) 5/8" x 10' COPPER CLAD GROUND ROD
- (3) GROUND ALL CORNER POSTS WITH MECHANICAL PIPE CONNECTORS
- PERIPHERAL GROUND RING SHOULD BE INSTALLED 1'-2' INSIDE THE FERFIERAL GROUND RATE GROUND RING SHOULD BE INSTALLED A
 MINIMUM TWO FEET OFF OF ANY STRUCTURE
- 5) 5/8"Ø 10' LONG COPPERCLAD GROUND ROD WITH INSPECTION WELL, TOP OF GROUND ROD MAX 24" BURY, SEE DETAIL SHEET E-5.
- (6) INSPECTION WELL (TYP.)
- BOND TOWER TO GROUND SYSTEM WITH CADWELD TYPE VS, 7 BOND TOWER 4 LOCATIONS
- (8) GATE JUMPERS SEE DETAIL ON SHEET E-6

PROVIDE AN EXTERNAL #2 TNNCOATED GROUND LEAD FROM GROUND RING

- 9 ALL METAL CABINETS ON UTILITY BACKBOARD (TELCO, ELEXTRIC, BREAKER PANELS, METER RACKS, JUNCTION BOXES, ETC.) SLEEVED IN CONDUIT FRO JUST BELOW GRADE TO SAND CABINETS USING BURNDY TYPE 2 LONG BAR LUGS WITH NO-OK OR COPPER SHIELD
- (10) ELECTRIC METER AND ELECTRIC SERVICE GROUNDING COORDINATE ALTERNATE WITH PM
- (11) 24" x 30" x 24" FIBER OPTIC HAND HOLE

(12) MAINTAIN TWO FOOT DISTANCE OFF OF STRUCTURES.

- 13 GROUND CHAIN LINK FENCE (TYPICAL) EXOTHERMIC CONNECTION (TYPE VS) GROUND FENCE POSTS WITHIN 6 FEET OF PLATFORM AND 25 FEET OF TOWER.
- (14) PROPOSED TOWER GROUND RING

LEGEND:

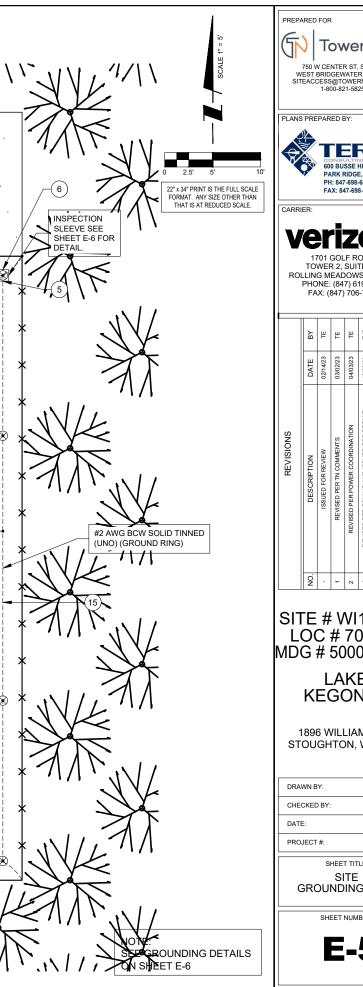
- (15) PROPOSED COMPOUND GROUND RING
- (16) EACH TOWER FOUNDATION TO HAVE AT LEAST ONE ANCHOR BOLT BONDED TO TOWER GROUND RING WITH #2 TINNED SOLID COPPER CONDUCTOR
- (17) IF MAT FOUNDATION IS INSTALLED, GROUND RODS ARE TO BE INSTALLED HORIZONTALLY.

NOTES:

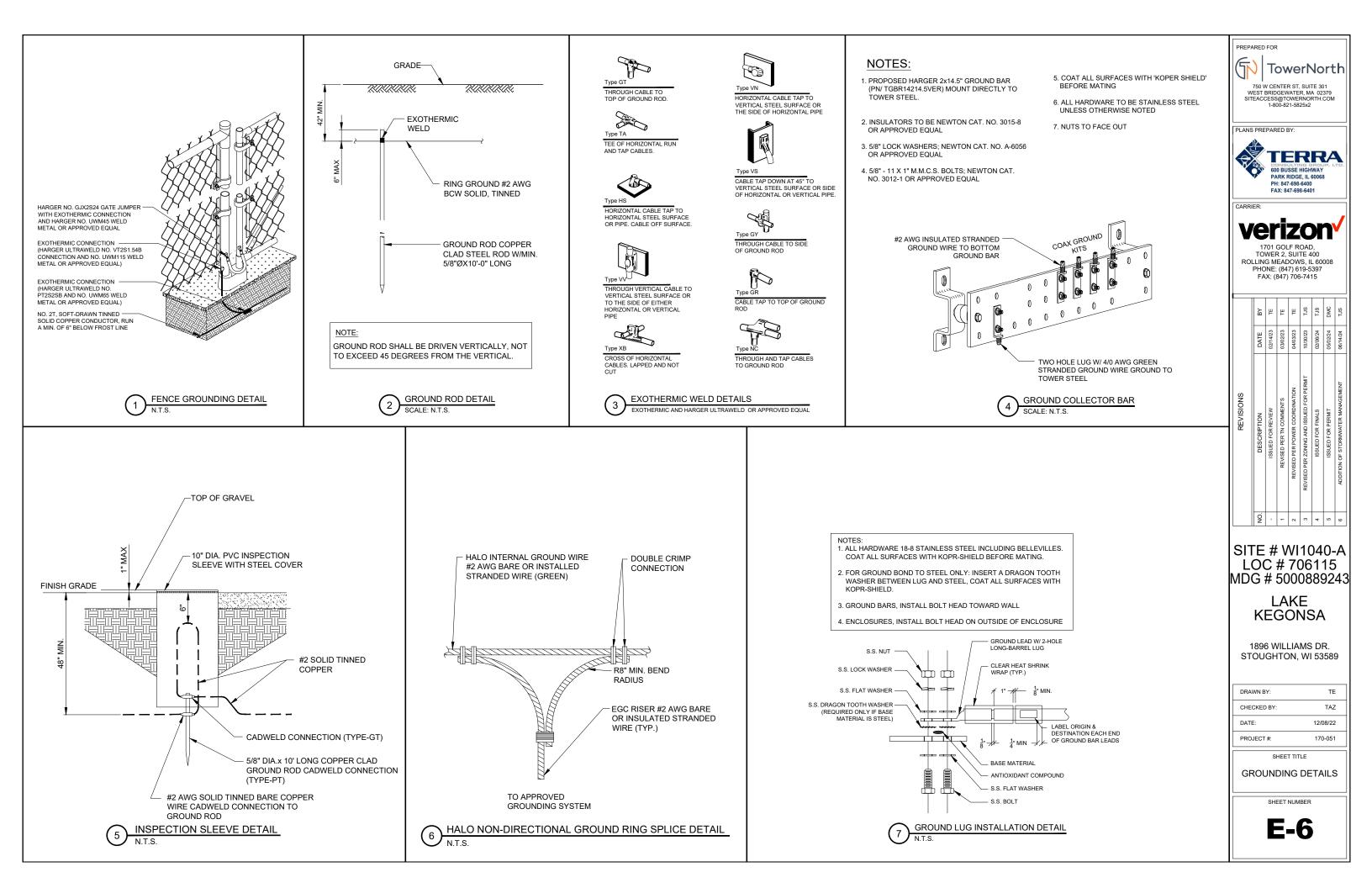
- 1. CONTRACTOR TO INSTALL GROUND RODS AS NEEDED TO PROVIDE RECOMMENDED RESISTIVITY. REFER TO ELECTRICAL AND GROUNDING NOTES ON SHEET E-1.
- 2. CONTRACTOR TO INSTALL HANDHOLES AS NECESSARY PER LOCAL UTILI REQUIREMENTS.
- 3. ALL GROUNDING CONDUCTORS ARE #2 AWG SOLID TINNED COPPER WIR BARE, UNLESS NOTED OTHERWISE.

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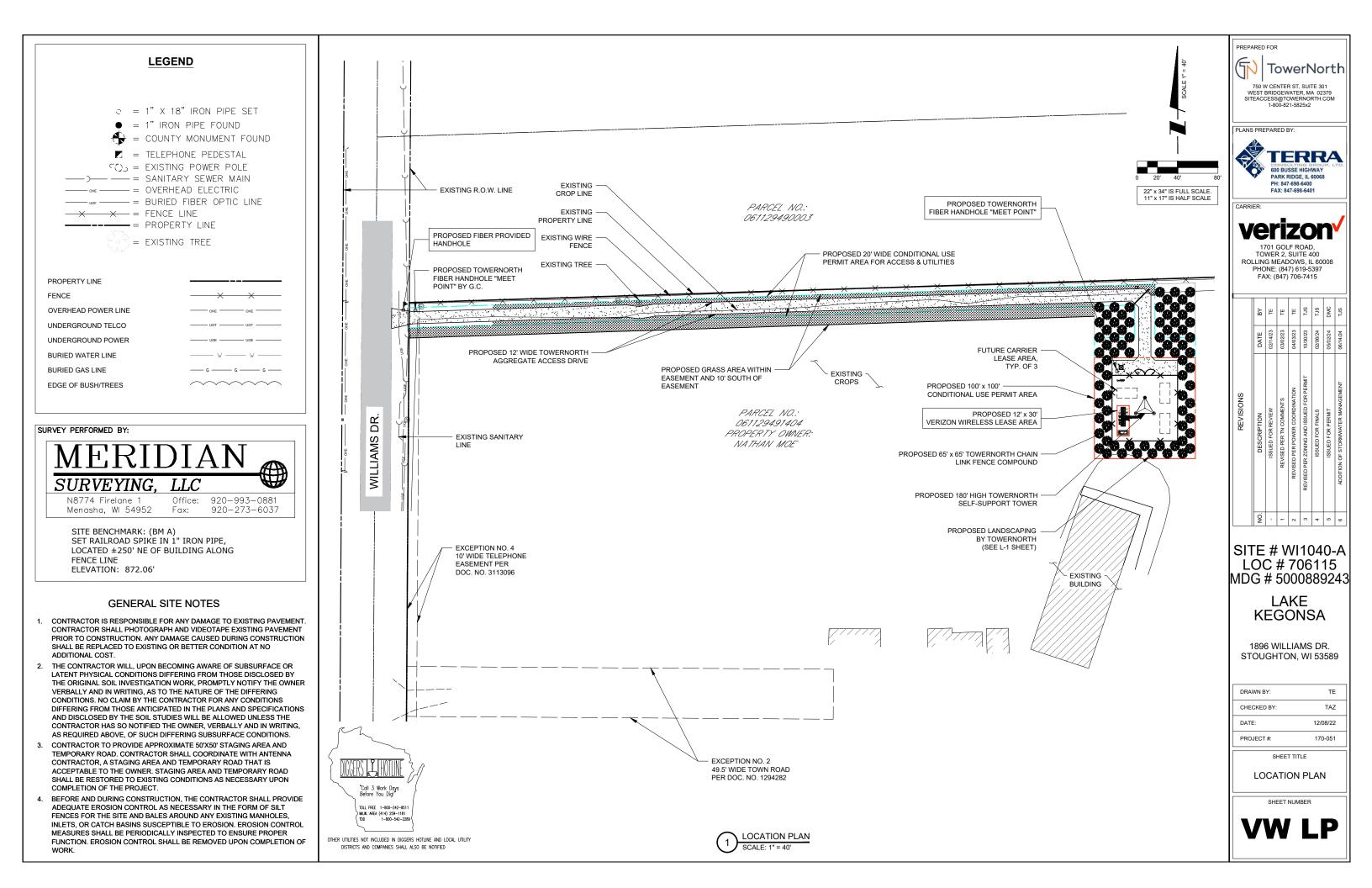
c=>	GROUND BAR OR ARRESTOR BAR	<u>_</u> D	SPARE GROUND LEAD
\otimes	5/8"Ø x 10'-0" GROUND ROD		MECHANICAL CONNECTION
\otimes	GROUND SYSTEM TEST WELL		- EXISTING GROUNDING
٠	CADWELD OR APPROVED CONNECTION		- NEW GROUNDING

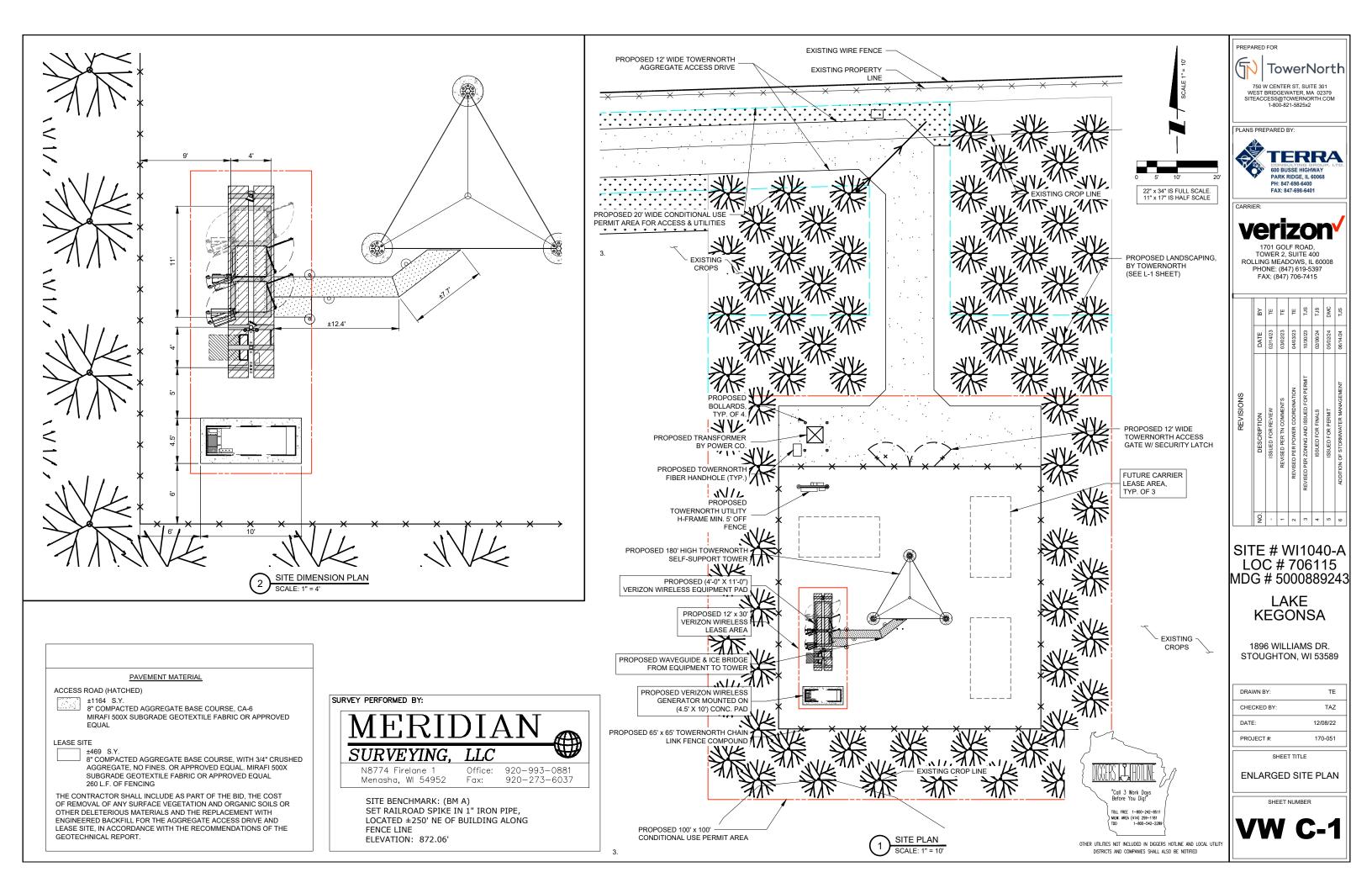


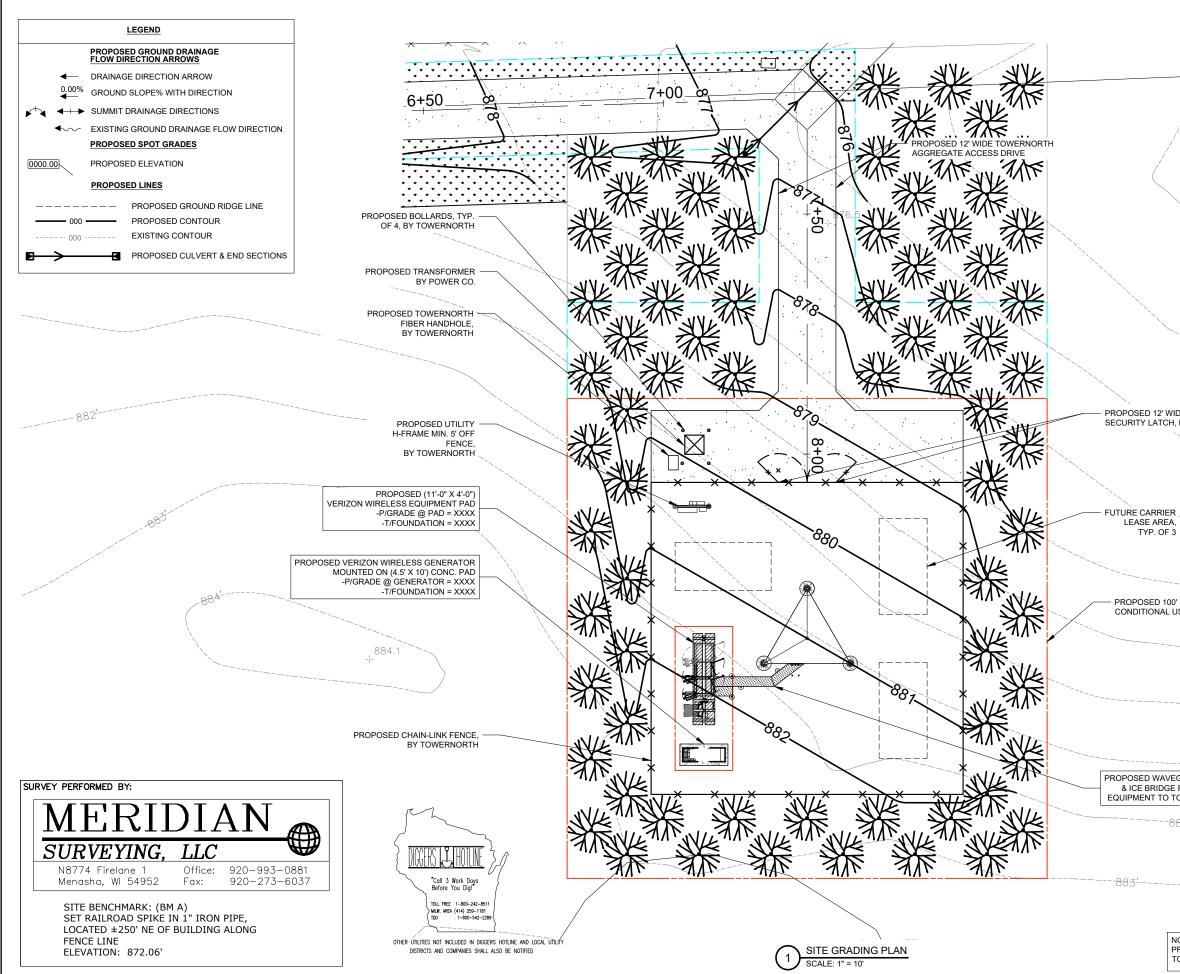
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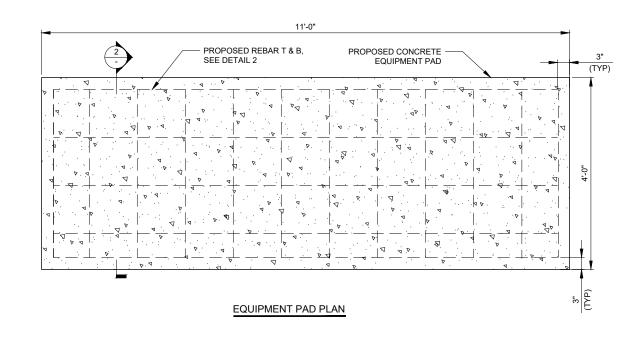




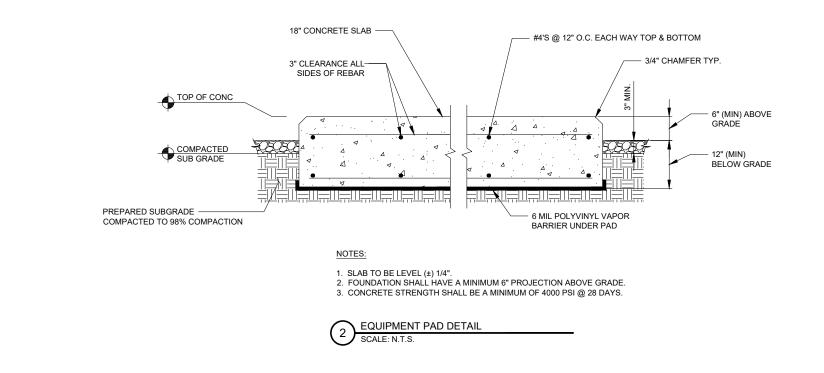




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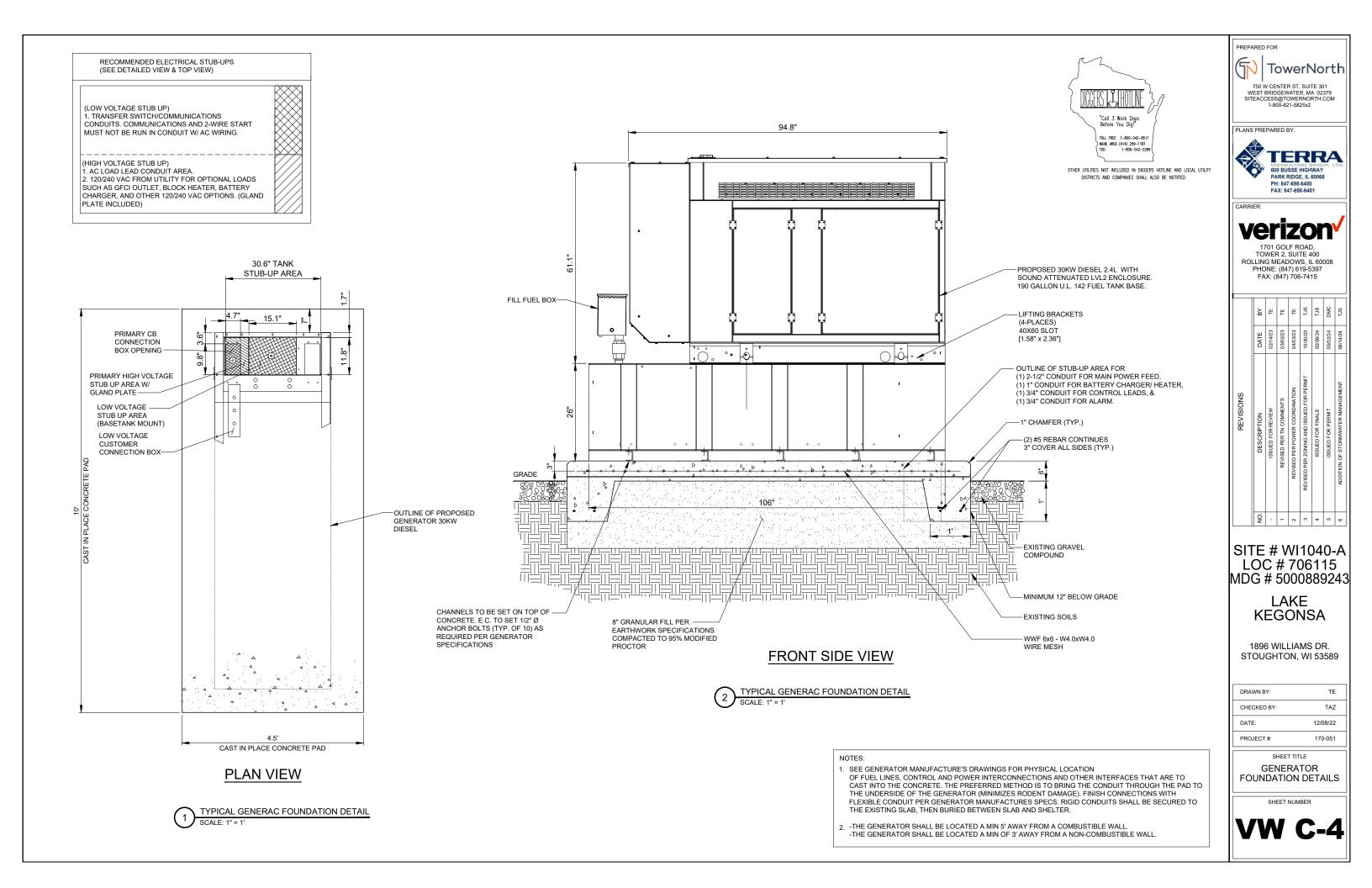


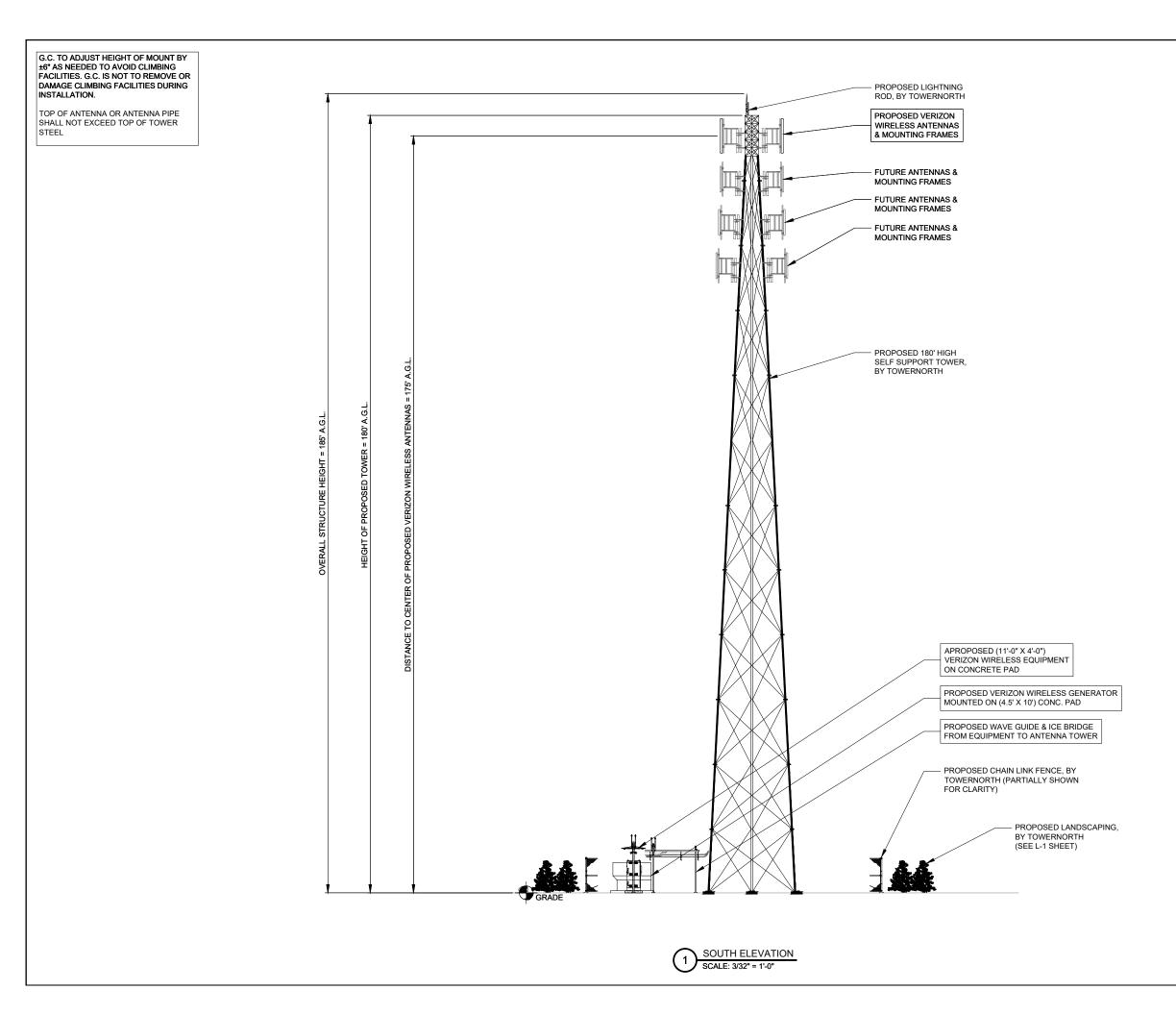


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OTHER UTILITIES NOT INCLUDED IN DIGGERS HOTLINE AND LOCAL UTILITY DISTRICTS AND COMPANIES SHALL ALSO BE NOTIFIED

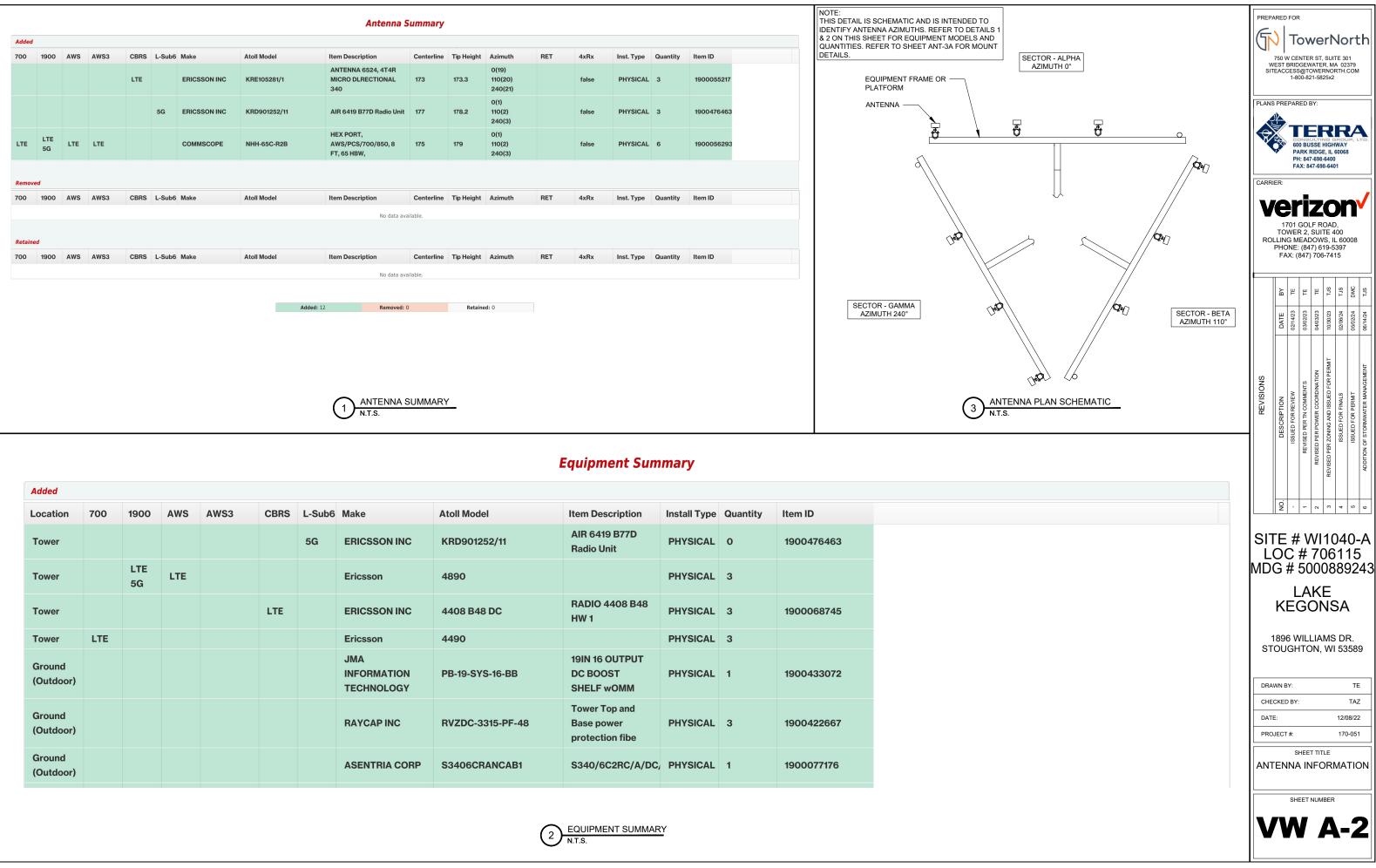




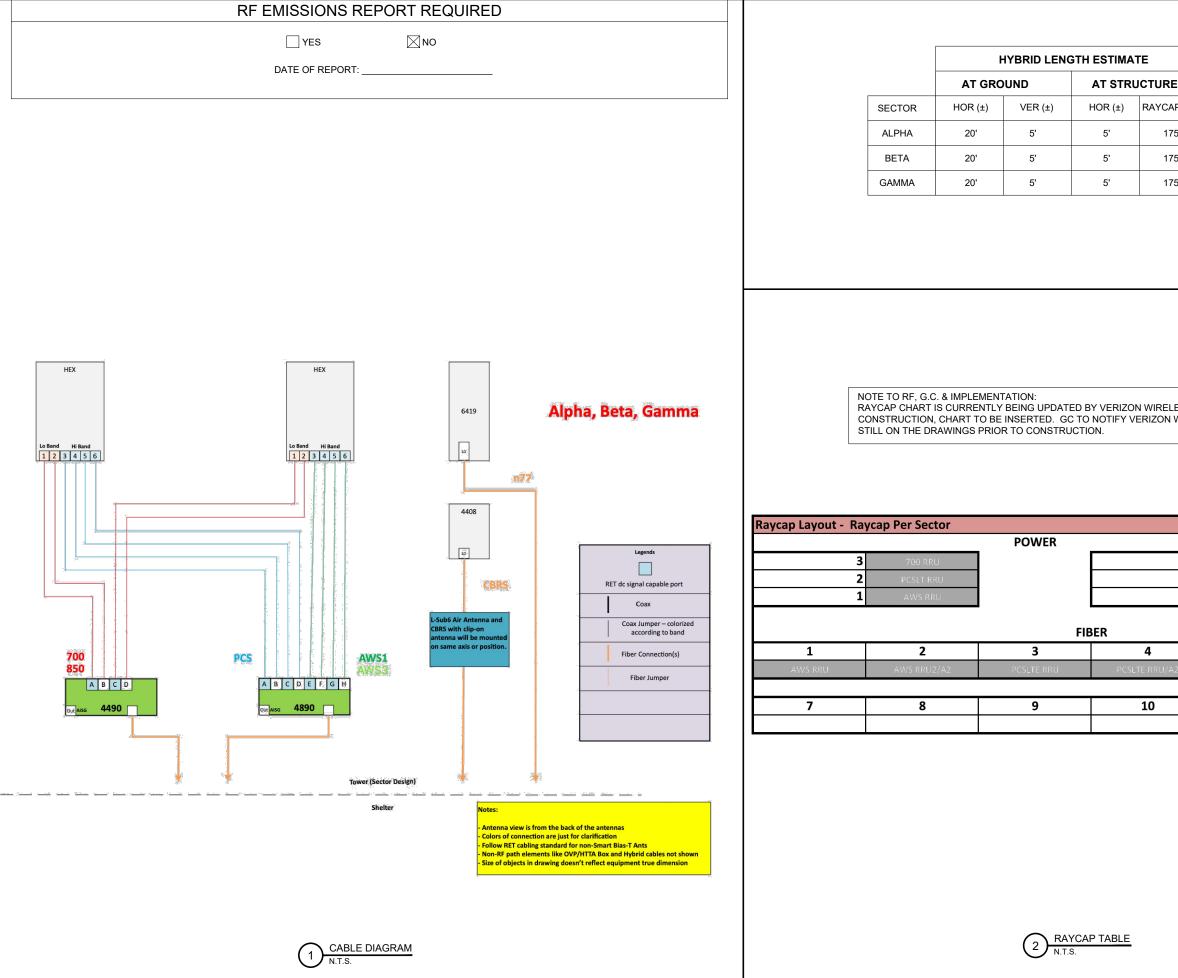
PREPARED FOR TowerNorth 750 W CENTER ST, SUITE 301 WEST BRIDGEWATER, MA 02379 SITEACCESS@TOWERNORTH.COM 1-800-821-5825x2 PLANS PREPARED BY: TERRA 600 BUSSE HIGHWAY PARK RIDGE, IL 60068 PH: 847-698-6400 FAX: 847-698-6401 CARRIER verizon 1701 GOLF ROAD, TOWER 2, SUITE 400 ROLLING MEADOWS, IL 60008 PHONE: (847) 619-5397 FAX: (847) 706-7415 Ī REVISIONS COORDII ISSUED I FINALS ION ≣VIE/ AND Ο<u>Ν</u> · Γ Ν ω 4 ω φ SITE # WI1040-A LOC # 706115 MDG # 5000889243 LAKE **KEGONSA** 1896 WILLIAMS DR. STOUGHTON, WI 53589 DRAWN BY: ΤE CHECKED BY: TAZ DATE: 12/08/22 PROJECT #: 170-051 SHEET TITLE SITE ELEVATION & ANTENNA LAYOUT SHEET NUMBER **VW A-1**

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

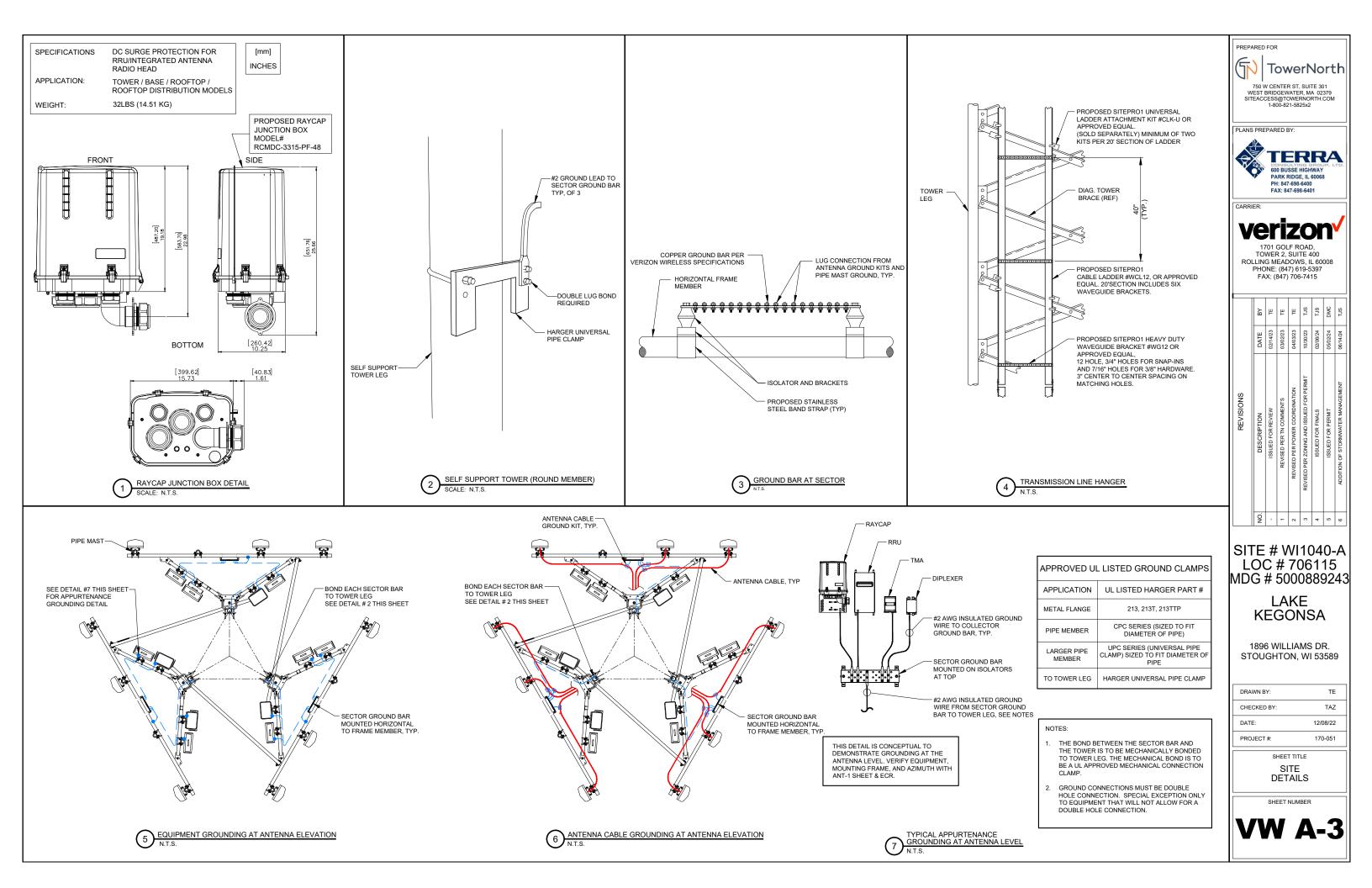
22" x 34" PRINT IS THE FULL SCALE FORMAT. ANY SIZE OTHER THAN THAT IS AT REDUCED SCALE.

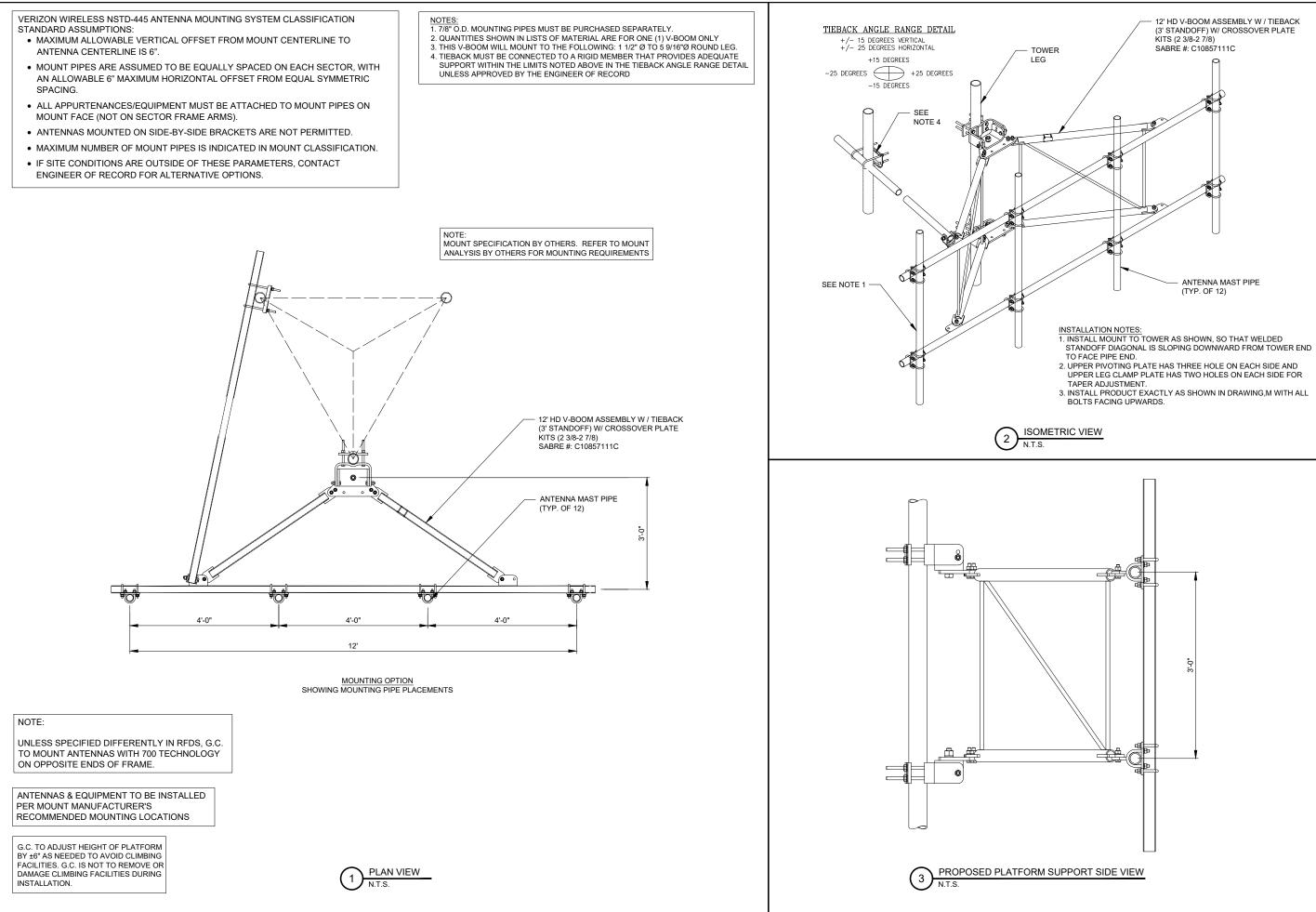


Location	700	1900	AWS	AWS3	CBRS	L-Sub6	Make	Atoll Model	Item Description	Install Type	Quantity	Item ID
Tower						5G	ERICSSON INC	KRD901252/11	AIR 6419 B77D Radio Unit	PHYSICAL	0	1900476463
Tower		LTE 5G	LTE				Ericsson	4890		PHYSICAL	3	
Tower					LTE		ERICSSON INC	4408 B48 DC	RADIO 4408 B48 HW 1	PHYSICAL	3	1900068745
Tower	LTE						Ericsson	4490		PHYSICAL	3	
Ground (Outdoor)							JMA INFORMATION TECHNOLOGY	PB-19-SYS-16-BB	19IN 16 OUTPUT DC BOOST SHELF wOMM	PHYSICAL	1	1900433072
Ground (Outdoor)							RAYCAP INC	RVZDC-3315-PF-48	Tower Top and Base power protection fibe	PHYSICAL	3	1900422667
Ground (Outdoor)							ASENTRIA CORP	S3406CRANCAB1	S340/6C2RC/A/DC,	PHYSICAL	1	1900077176

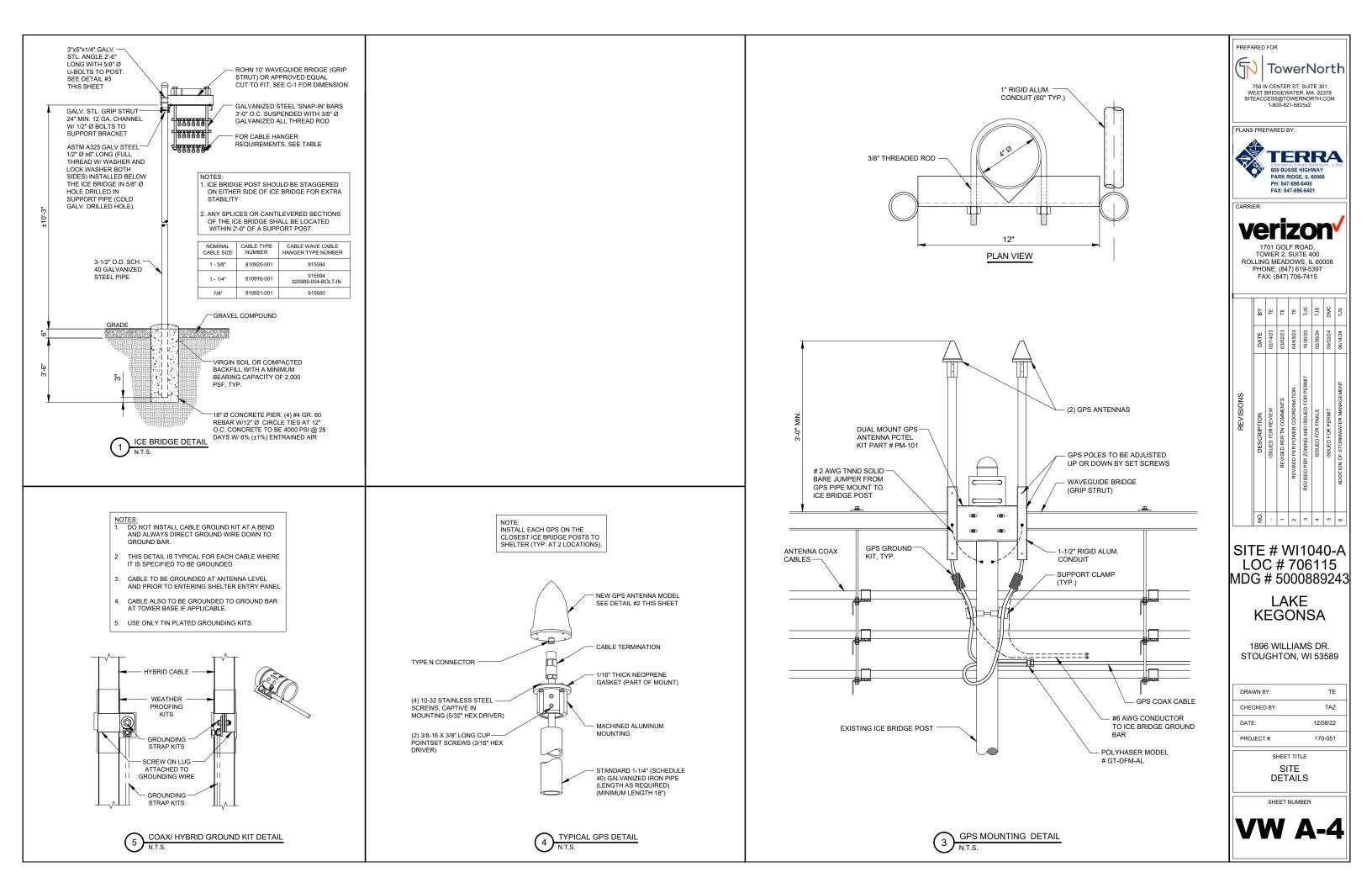


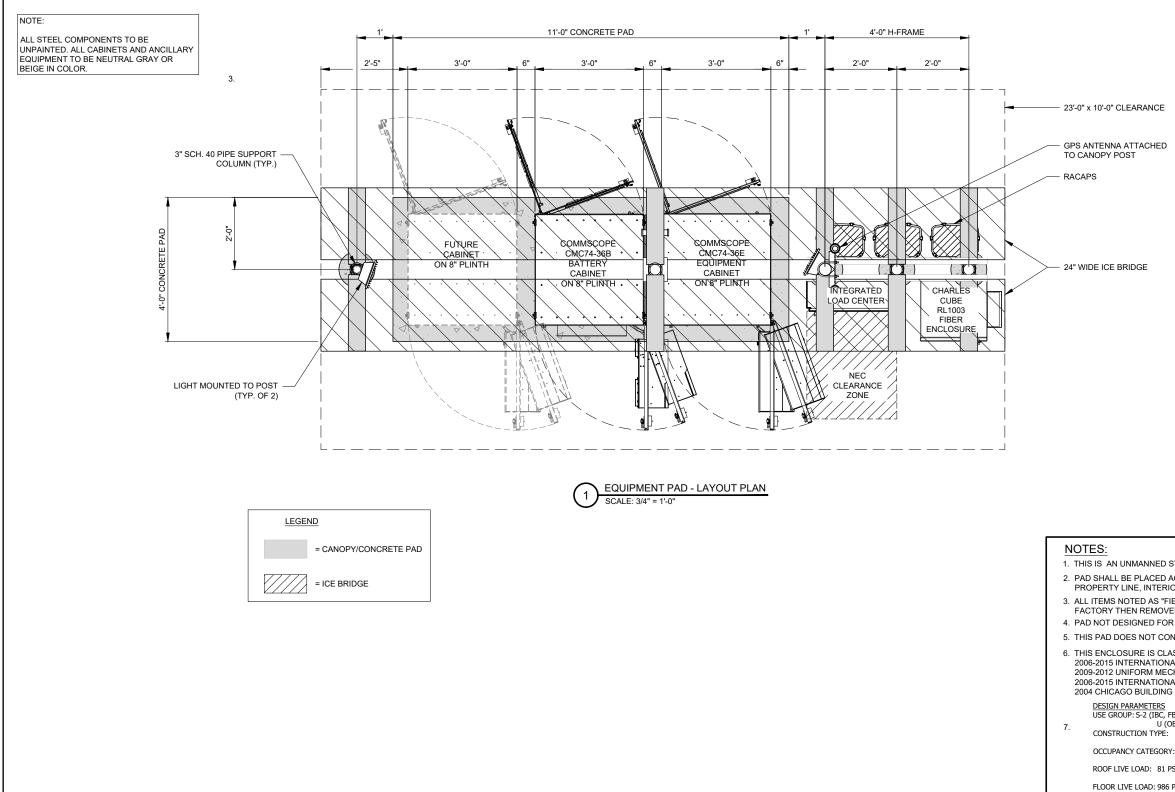
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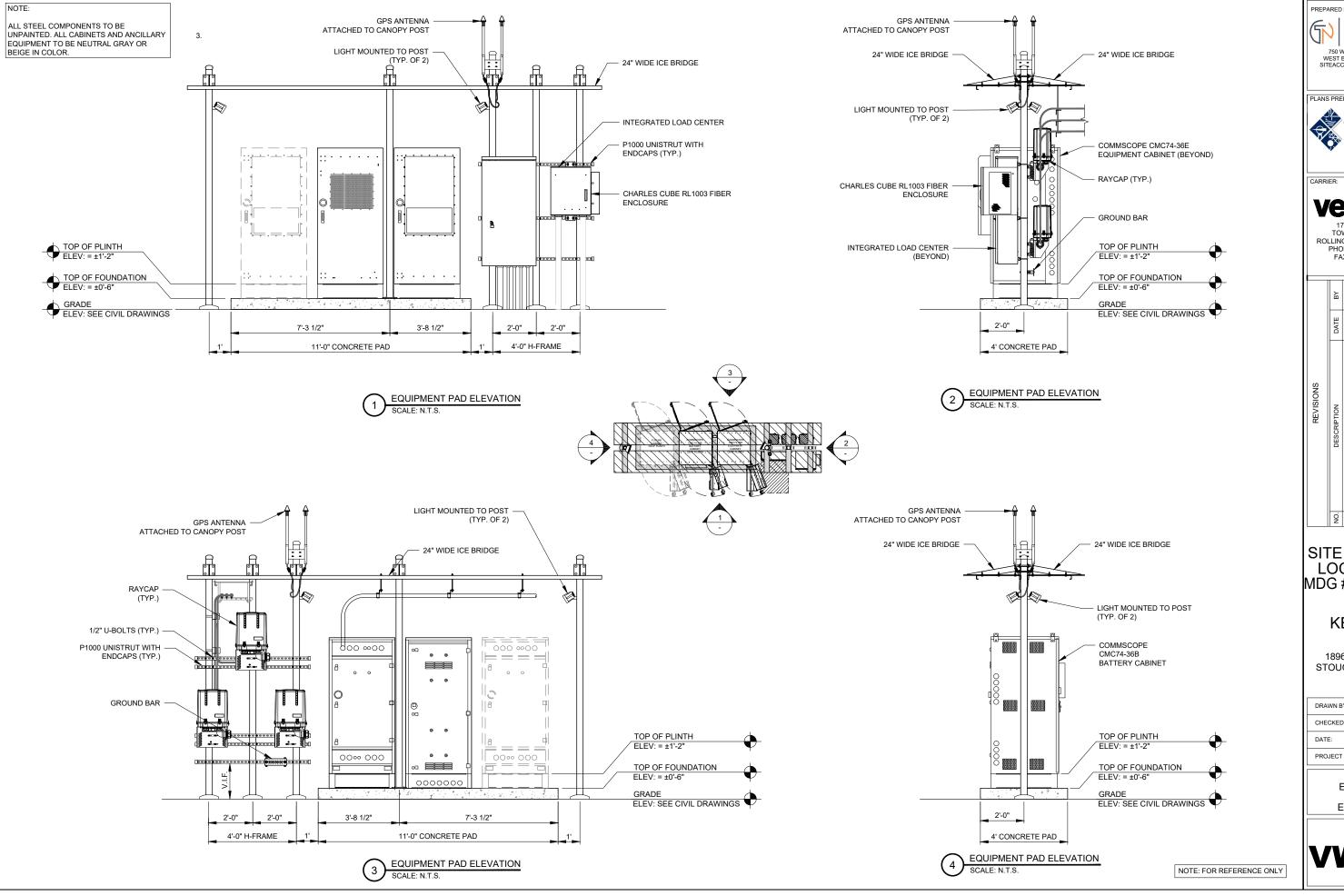
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750 W CENTER ST, SUITE 301 WEST BRIDGEWATER, MA 02379 SITEACCESS@TOWERNORTH.COM 1-800-821-5825x2												
PLANS PREPARED BY:												
TERRA CONSULTING GROUP, LTD. 600 BUSSE HIGHWAY												
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TOWER 2, SUITE 400 ROLLING MEADOWS, IL 60008 PHONE: (847) 619-5397 FAX: (847) 706-7415												
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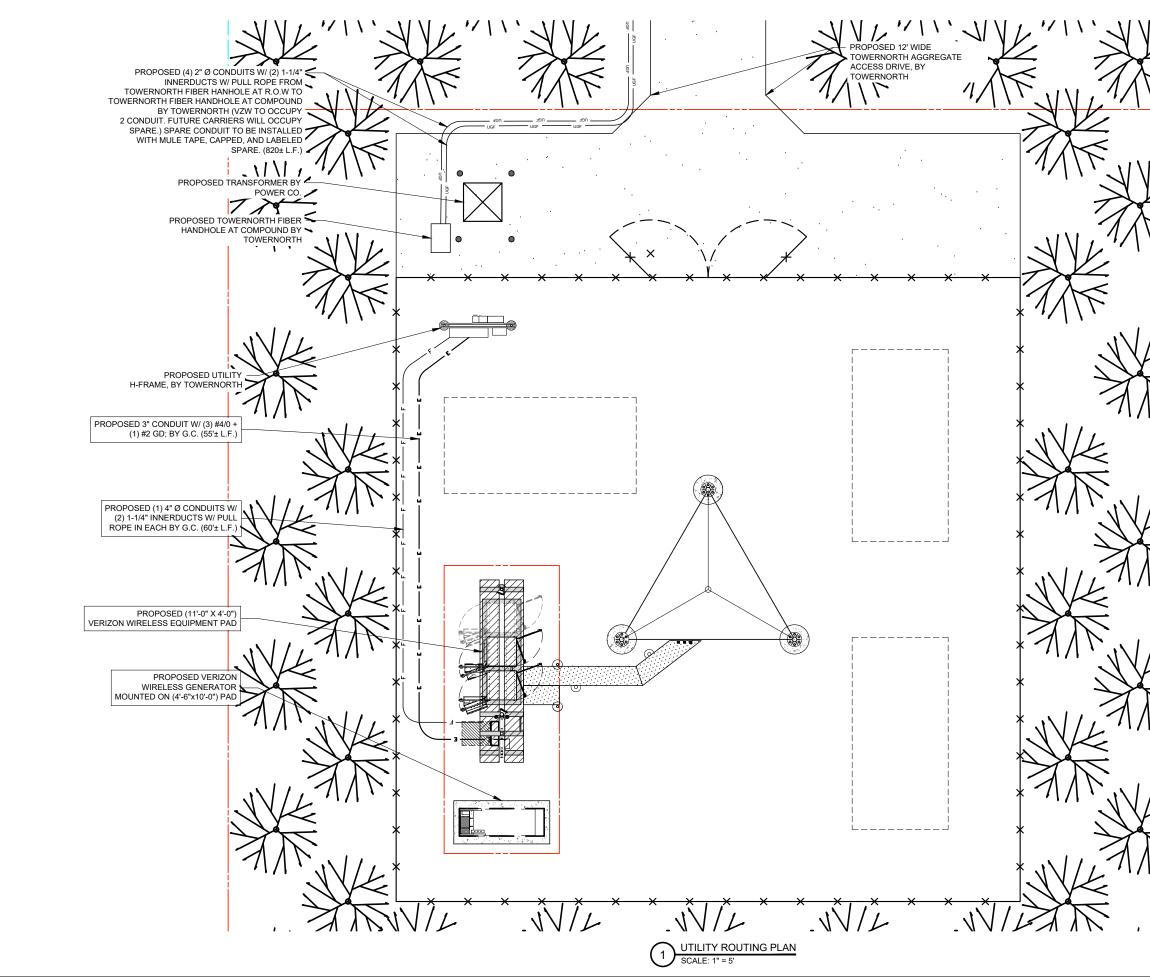


- GROUND SNOW LOAD: WIND SPEED: 150 M
- SEISMIC ZONE FOR SBC 8 SEISMIC DESIGN CATEGO
- BULLET RESISTANCE LEV CONCRETE fc: 5000 CONCRETE UNIT WEIGHT
- 8. CONCRETE PAD AND ASS SEPARATE CONTRACT. E HEREIN IS PROVIDED FOF MANUFACTURER'S AVAIL ELECTRICAL DRAWINGS F

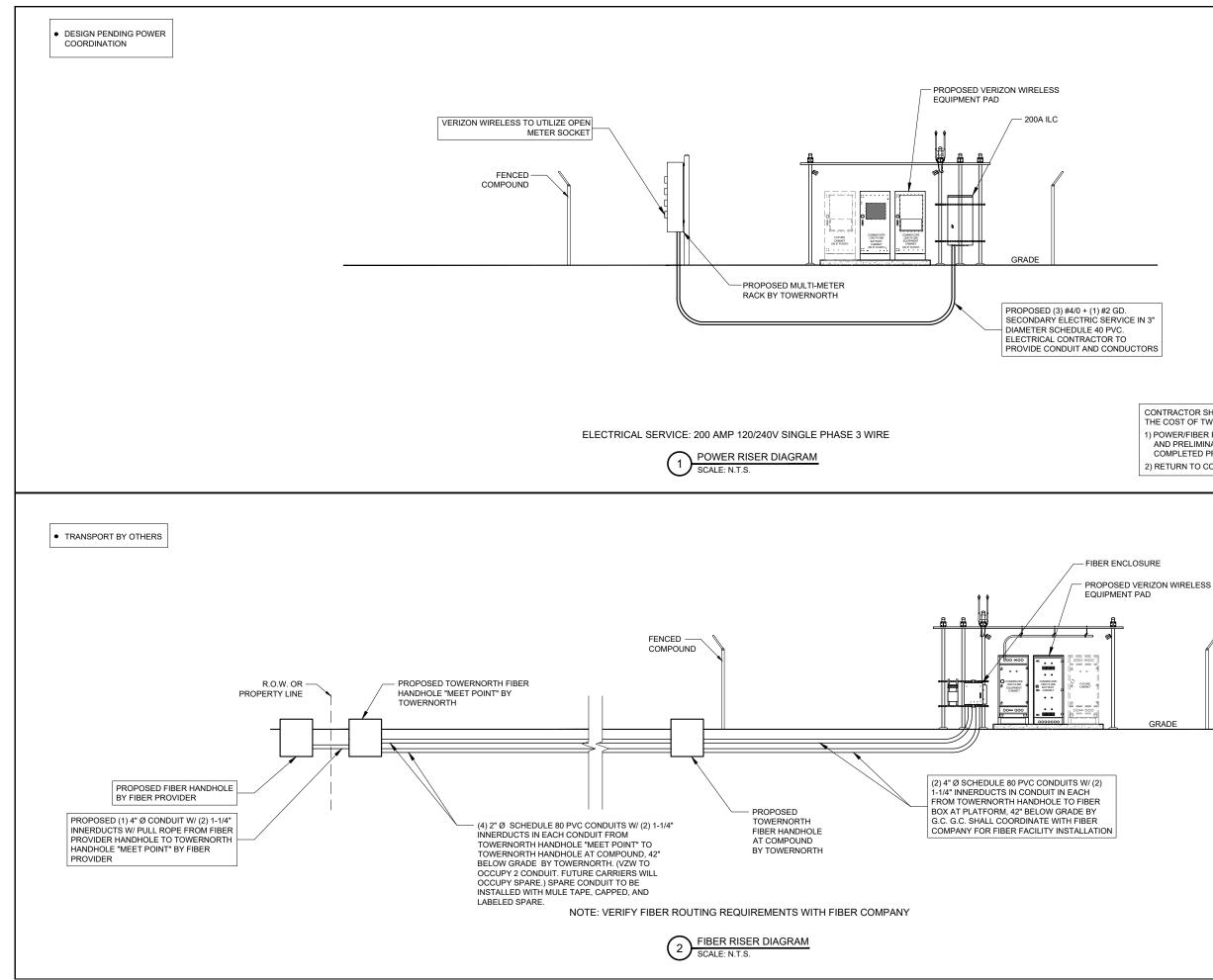
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TERRA CONSULTING GROUP, LTD. 600 BUSSE HIGHWAY													
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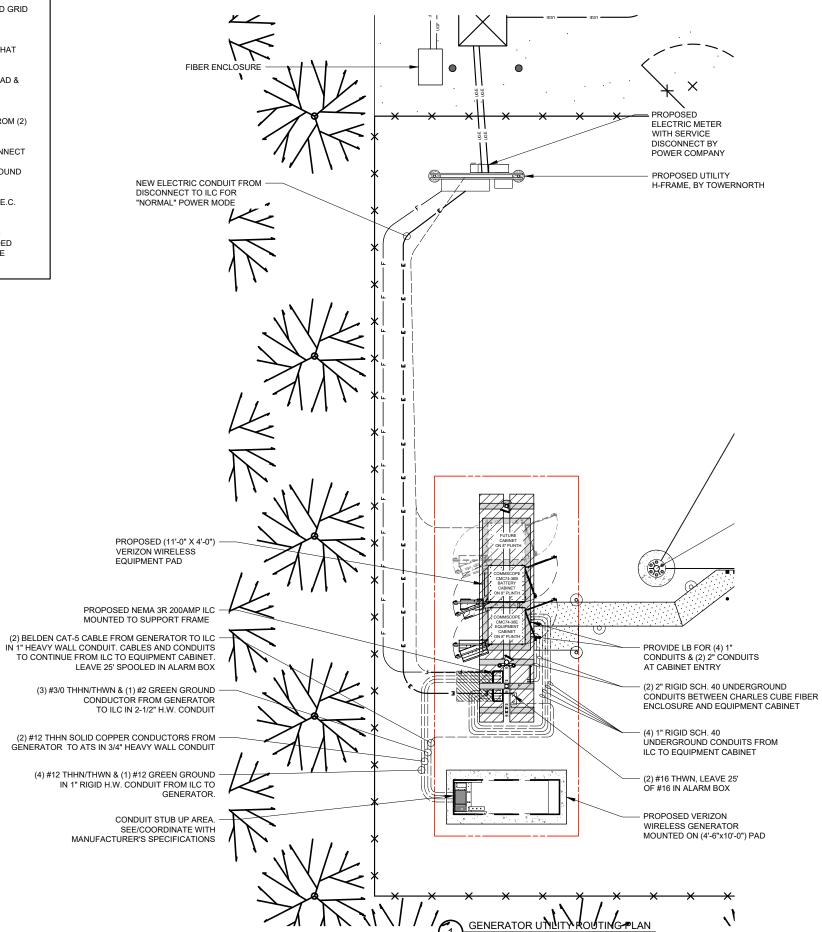
PREPARED FOR TOWERNORTH. TSO W CENTER ST. SUITE 301 WEST BRIDGEWATER, MA 02379 SITEACCESS@TOWERNORTH.COM 1-800-821-592542 PLANS PREPARED BY: WEST SPREPARED BY: WEST SPREPARED BY: WEST SPREPARED BY: WEST SPREPARED BY: TOTI GOLF ROAD, TOTI GOLF ROAD,													
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CONTRACTOR SHALL BUILD INTO THE PRICE OF THE BID THE COST OF TWO (2) MOBILIZATIONS:

1) POWER/FIBER PERMIT PULLED PRIOR TO BUILDING PERMIT AND PRELIMINARY WORK (SMART JACK ON A STICK, ETC) COMPLETED PRIOR TO GENERAL CONSTRUCTION 2) RETURN TO COMPLETE GENERAL ELECTRICAL CONSTRUCTION

NOTES:

- 1) SEE DETAILS ON EXISTING GROUND GRID AND GENERATOR GROUND GRID FOR REQUIRED GROUNDING SYSTEM.
- 2) NEW AUTOMATIC TRANSFER SWITCH, INSTALLED AND WIRED BY E.C. CONNECT EXTERNAL GROUND LUG AND GROUNDING CONDUCTOR THAT WAS REMOVED FROM MANUAL TRANSFER SWITCH.
- 3) E.C. MUST LOCATE GROUND GRID INSTALLED FOR NEW EQUIPMENT PAD & PROVIDE THE ATTACHMENT OF THE GENERATOR GROUND TO THE EQUIPMENT GRID FOR SINGLE POINT GROUNDING.
- 4) E.C. TO EXTEND #2 TINNED SOLID COPPER GROUND CONDUCTORS FROM (2) LOCATIONS ON GENERATOR FRAME (SEE MANUFACTURERS RECOMMENDATIONS) PROVIDE GROUND LUGS ON GENERATOR AS REQUIRED. EXTEND #1/0 STRANDED GROUND CONDUCTOR AND CONNECT TO COPPER CLAD GROUND RODS VIA HEAVY DUTY EXOTHERMIC TERMINATIONS AND THEN EXTENDED AND ATTACH TO BUILDING GROUND GRID VIA EXOTHERMIC TERMINATIONS.
- 5) NEW GENERATOR FURNISHED BY LESSEE. INSTALLED AND WIRED BY E.C. DELIVERED AND SET BY CONTRACTOR
- 6) E.C. MUST MONITOR DC POWER WHEN ON BATTERY BACK-UP DURING PORTIONS OF CONSTRUCTION. IF LEVEL FALLS BELOW RECOMMENDED LEVEL 2256 DC, E.C. MUST TURN ON THE MAIN POWER. THE CELL SITE CANNOT GO OFF LINE AT ANYTIME.

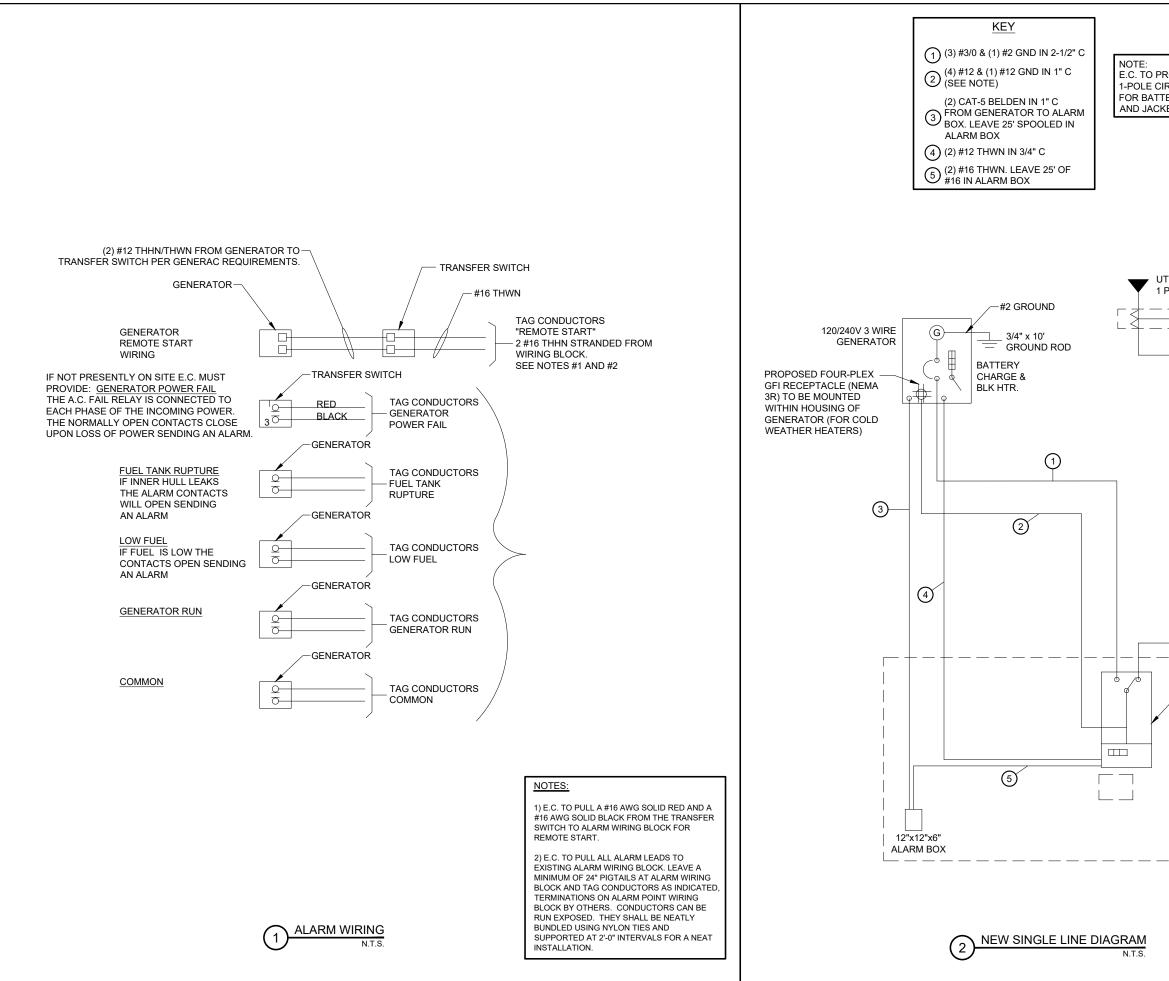


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ELECTRICAL INSTALLATION NOTES

- 1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS THE NATIONAL ELECTRICAL CODE (N.E.C.), AND ALL APPLICABLE LOCAL CODES.
- 2. WIRING RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE N.E.C.
- 3. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE N.E.C.
- 4. CABLES SHALL NOT BE ROUTED THROUGH LADDER CABLE TRAY RUNGS.
- 5. EACH END OF EVERY POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH N.E.C. & OSHA
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PLASTIC TAPE PER COLOR SCHEDULE, ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E. PANEL BOARD AND CIRCUIT ID'S).
- 7. PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
- 8. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- 10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE NOTED.
- 11. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER) 600 V, OIL RESISTANT THHN OR THHN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR LOCATION USED, UNLESS OTHERWISE SPECIFIED.
- 12. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE)
- 13. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND N.E.C.
- 14. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- 16. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
- 17. RIGID NONMETALLIC CONDUIT(I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED; IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- 18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- 19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREWS FITTINGS ARE NOT ACCEPTABLE.
- 20. CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA. UL. ANSI/IEEE. AND N.E.C.
- 21. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL) AND RATED NEMA 1 (OR BETTER).
- 22. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1(OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS

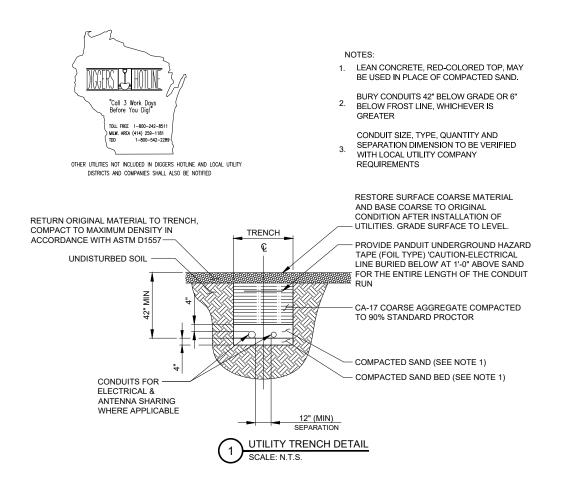
- METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NI BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- 24. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BET
- 25. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FR CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PAN
- 26. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, C DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STAND, SAFEGUARD AGAINST LIFE AND PROPERTY

GROUNDING NOTES

- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIG AND AC POWER GES'S) SHALL BE BONDED TOGETHER BELOW GRADE, BY TWO OR BONDING CONDUCTORS IN ACCORDANCE WITH THE N.E.C.
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHA INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST R LESS.
- THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUND DAMAGE TO THE CONDUIT & PROVIDE TESTING RESULTS.
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONT BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG CO APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- 5. METAL RACEWAY SHALL NOT BE USED AS THE N.E.C. REQUIRED EQUIPMENT GROU STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDAN SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPM
- CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BA CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
- 7. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USE CONNECTIONS.
- 9. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOI CAN BE ADEQUATELY SUPPORTED.
- 10. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW (
- ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR & EXTERIOR) SHALL BE FOR PRESS CRIMPS.
- 12. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD
- 13. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOL AND THE TOWER GROUND BAR.
- APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE U COMPRESSION AND BOLTED GROUND CONNECTIONS, IF REQUIRED BY EQUIPMENT INSTRUCTIONS (NEC 110-3 (B)).
- 15. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RES
- 16. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND S BONDED TOT HE GROUND RING, IN ACCORDANCE WITH THE N.E.C.
- BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND WIRES WITH (1) #2 AV COPPER GROUND CONDUCTOR.
- 18. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE COM METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLO REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE SUED. WHERE CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.

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PH: 847-698-6400 FAX: 847-698-6401														
CARRIER:														
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1701 GOLF ROAD, TOWER 2, SUITE 400														
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(CONTRACTOR SHALL VERIFY AIC RATINGS W/ LOCAL POWER CO.)

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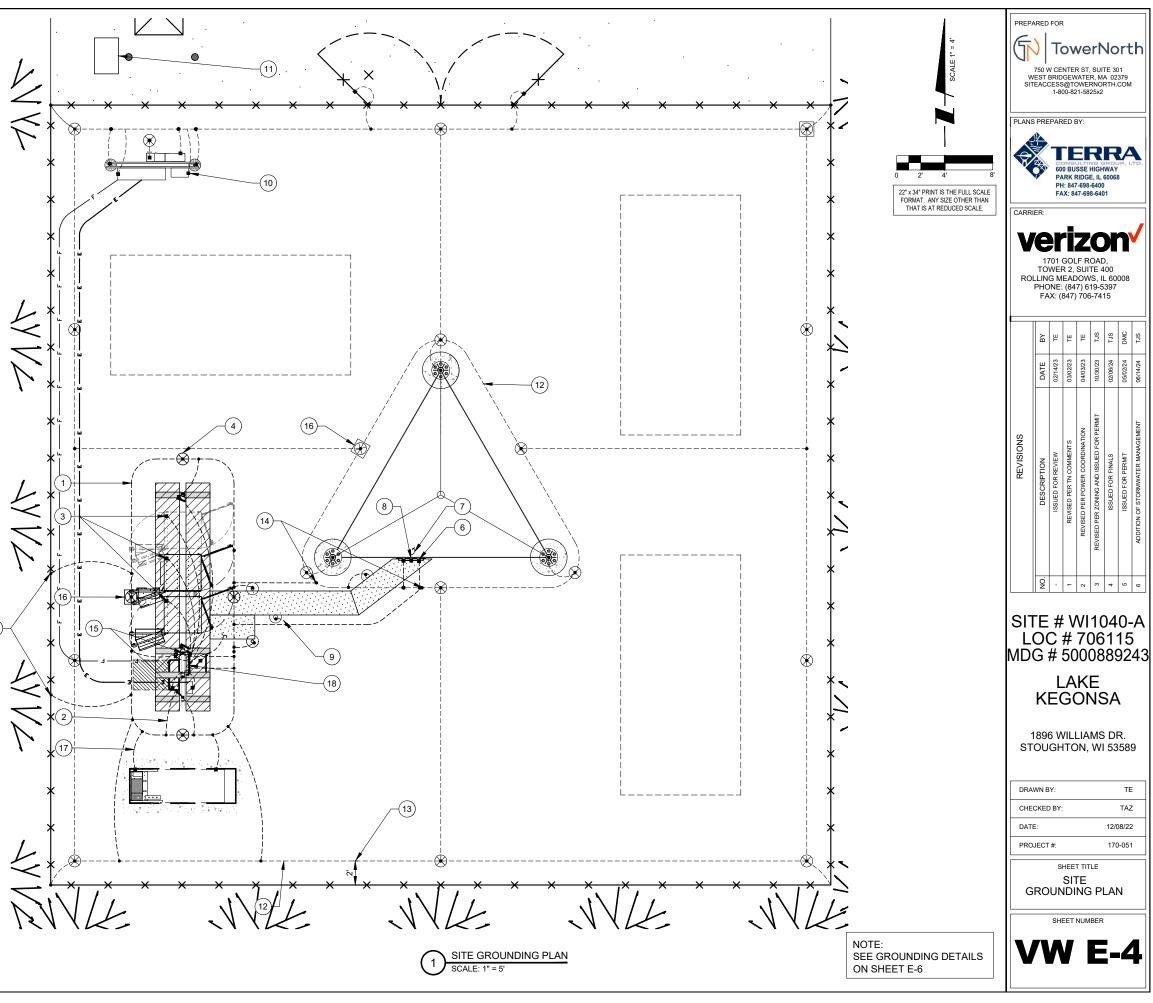
1. VERIZON WIRELESS EQUIPMENT ENGINEERING TO SUPPLY BREAKER FOR RADIO AND POWER CABINETS

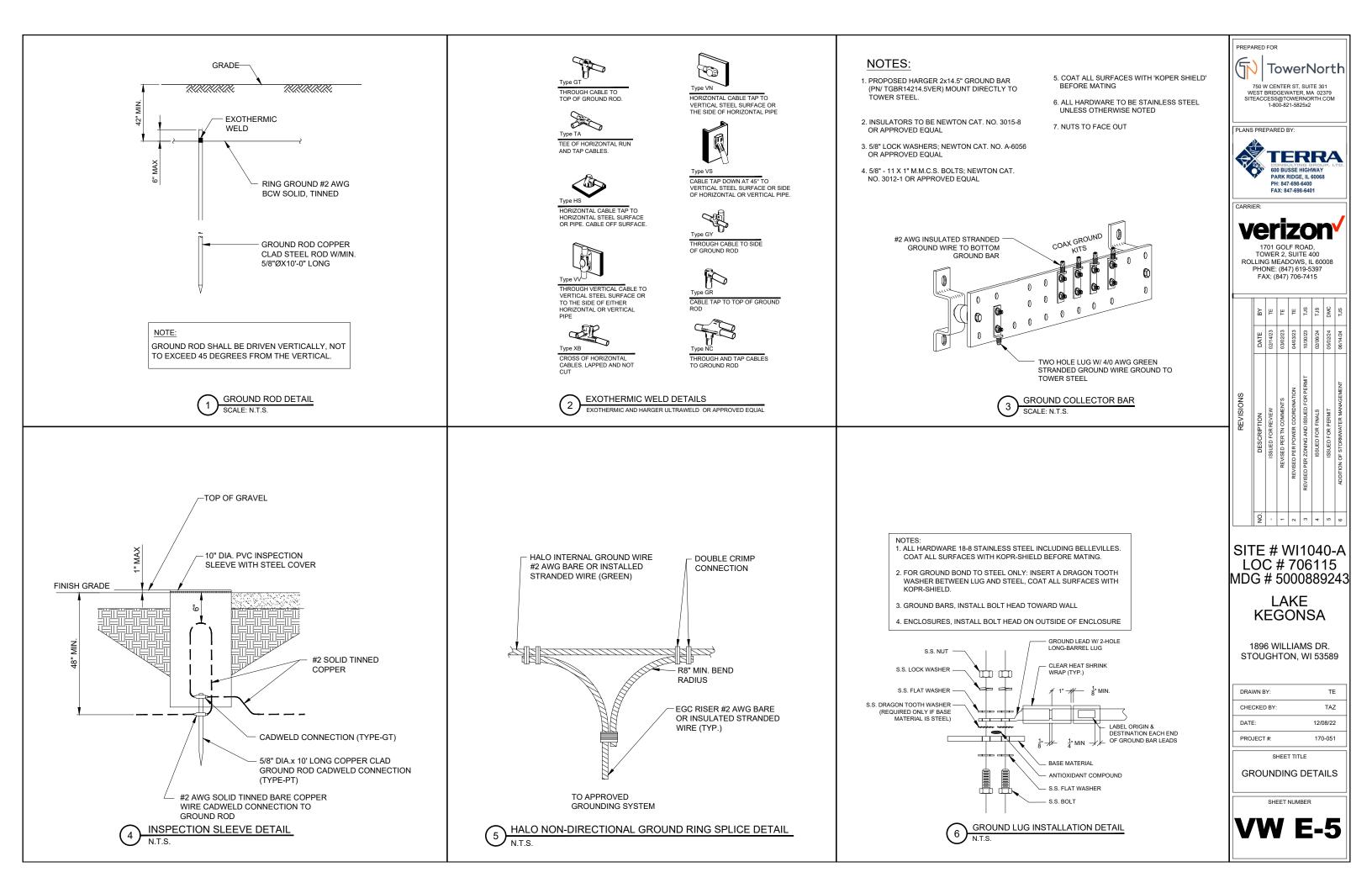
2. GENERAL CONTRACTOR TO SUPPLY BREAKERS NOTED WITH " * "

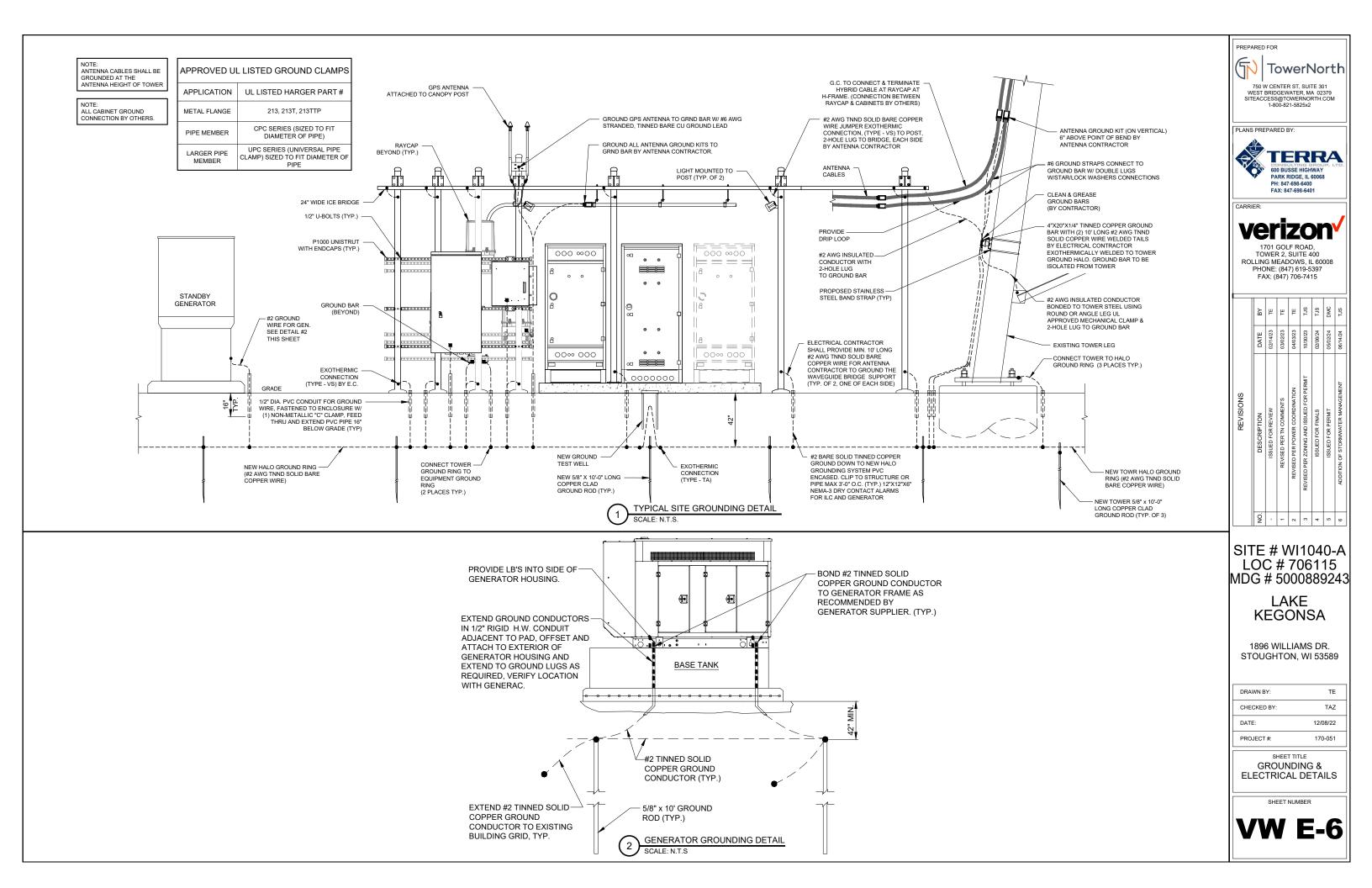
PREP	ARED	FOF	ł											
5	2	Т	ov	ve	٩r	٩c	ort	:h						
750 W CENTER ST, SUITE 301 WEST BRIDGEWATER MA 02379 SITEACCESS@TOWERNORTH.COM 1-800-821-5825x2 PLANS PREPARED BY:														
TERRA CONSULTING GROUP, LTD. 600 BUSSE HIGHWAY PARK RIDGE, IL 6008 DUI 947 698 6400														
PARK RIDGE, IL 60068 PH: 847-698-6400 FAX: 847-698-6401														
1701 GOLF ROAD, TOWER 2, SUITE 400 ROLLING MEADOWS, IL 60008														
					s	6	0							
	B	μ	۳ ۳	۳ ۳	SLT S	t TJS	t DMC	TJS						
	DATE DATE 02/14/23 03/02/23 04/03/23 10/30/23 10/30/23 06/14/24													
SN														
REVISIONS	NOI	EVIEW	REVISED PER TN COMMENTS	REVISED PER POWER COORDINATION	ISSUED F	-INALS	ERMIT	ADDITION OF STORMWATER MANAGEMENT						
R	DESCRIPTIO	SSUED FOR REVIEW	PER TN	R POWER	ING AND	SSUED FOR FINALS	SSUED FOR PERMIT	FORMWAI						
	ā	ISSI	REVISED	ISED PEF	PER ZON	ISSI	ISSI	ION OF ST						
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	E			rri 'Ail		L								
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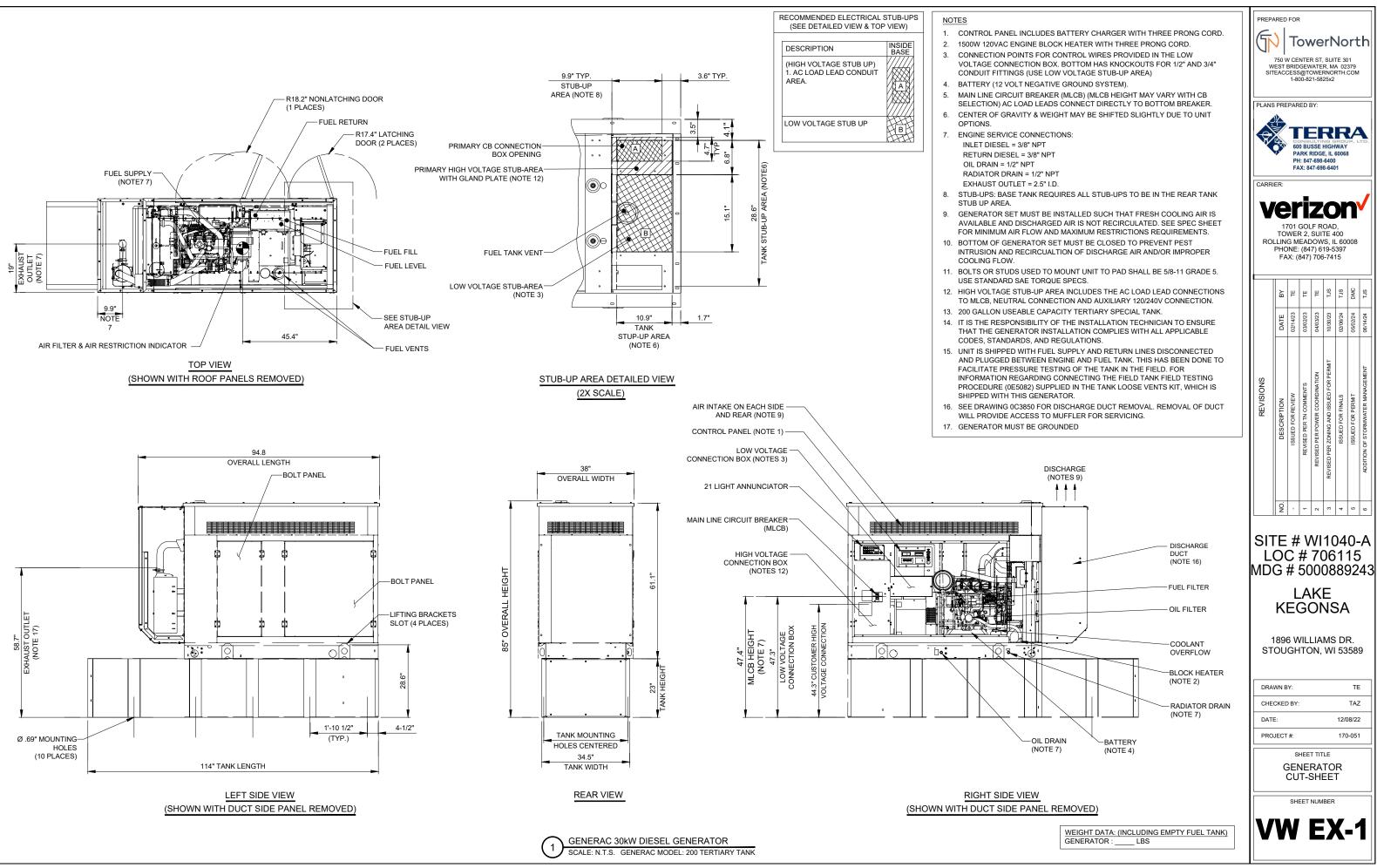
TYPICAL KEYED GROUNDING NOTES #2 AWG TNND SOLID BARE COPPER CONDUCTOR 42" BELOW GRADE (TYPICAL) MINIMUM 24" BENDING RADIUS (2) PLATFORM/PAD CORNER POST, STEEL COLUMN, STEEL BEAM & CANOPY GROUND (3) CABINET GROUND (4) 5/8" x 10' COPPER CLAD GROUND ROD GROUND CHAIN LINK FENCE (TYPICAL) EXOTHERMIC CONNECTION \triangle (5) GROUND FENCE POSTS WITHIN 6 FEET OF EQUIPMENT. GROUND COAXIAL ANTENNA CABLES TO GROUND BAR BY ANTENNA (6) CONTRACTOR TERMINATE CABLES 1'-0" FROM PLATFORM AND INSTALL LIGHTNING SURGE ARRESTORS ON EACH CABLE GROUND. (10 EXOTHERMICALLY WELD COPPER GROUND BAR TAIL TO HALO GROUND (7) RING (EXOTHERMIC CONNECTION TYPE TA) BY ANTENNA CONTRACTOR. FINAL CONNECTION BY ELECTRICAL CONTRACTOR. 4"X20"X1/4" TNND INSULATED COPPER GROUND BAR, NON ISOLATED WITH (8) 10.0' LONG #2 AWG TNND SOLID COPPER WIRE WELDED TAILS (HARGER GBIT 14420VW) (9) GROUND CABLE WAVEGUIDE BRIDGE (TYP.) BY ELECTRICAL CONTRACTOR. (10) VZW DISCONNECT AND ELECTRIC SERVICE GROUND TO GROUND ROD (11) 24" x 30" x 24" FIBER OPTIC HAND HOLE (12) PROPOSED TOWER OR COMPOUND GROUND RING BY CENTERLINE (V.I.F.) (13) MAINTAIN TWO FOOT DISTANCE OFF OF STRUCTURES. ۲ BOND EXISTING/ PROPOSED TOWER GROUND RING TO PROPOSED PLATFORM/PAD GROUND RING WITH #2 AWG TNND SOLID COPPER CONDUCTOR IN 2 LOCATIONS. 15 TWO #2 LEADS FROM THE EGR TO THE GROUND BAR AT UTILITY FRAME LOCATED ON PLATFORM/PAD CADWELD AT FOR THE SOUTH LOCATED ON PLATFORM/PAD. CADWELD AT EGR AND DOUBLE HOLE LUGS (16) ON PLATFORM/PAD. (16) COPPER CLAD GROUND ROD WITH INSPECTION WELL TOP OF GROUND ROD MAX 24" BURY. 200) × EXTEND GROUND CONDUCTORS IN 1/2" RIGID H.W. CONDUIT ADJACENT (17) TO PAD, OFFSET AND ATTACH TO EXTERIOR OF GENERATOR HOUSING AND EXTEND TO GROUND LUGS AS REQUIRED, VERIFY LOCATION WITH GENERAC (8) (14)(18) MGB MOUNTED ON H-FRAME. 6 (5)

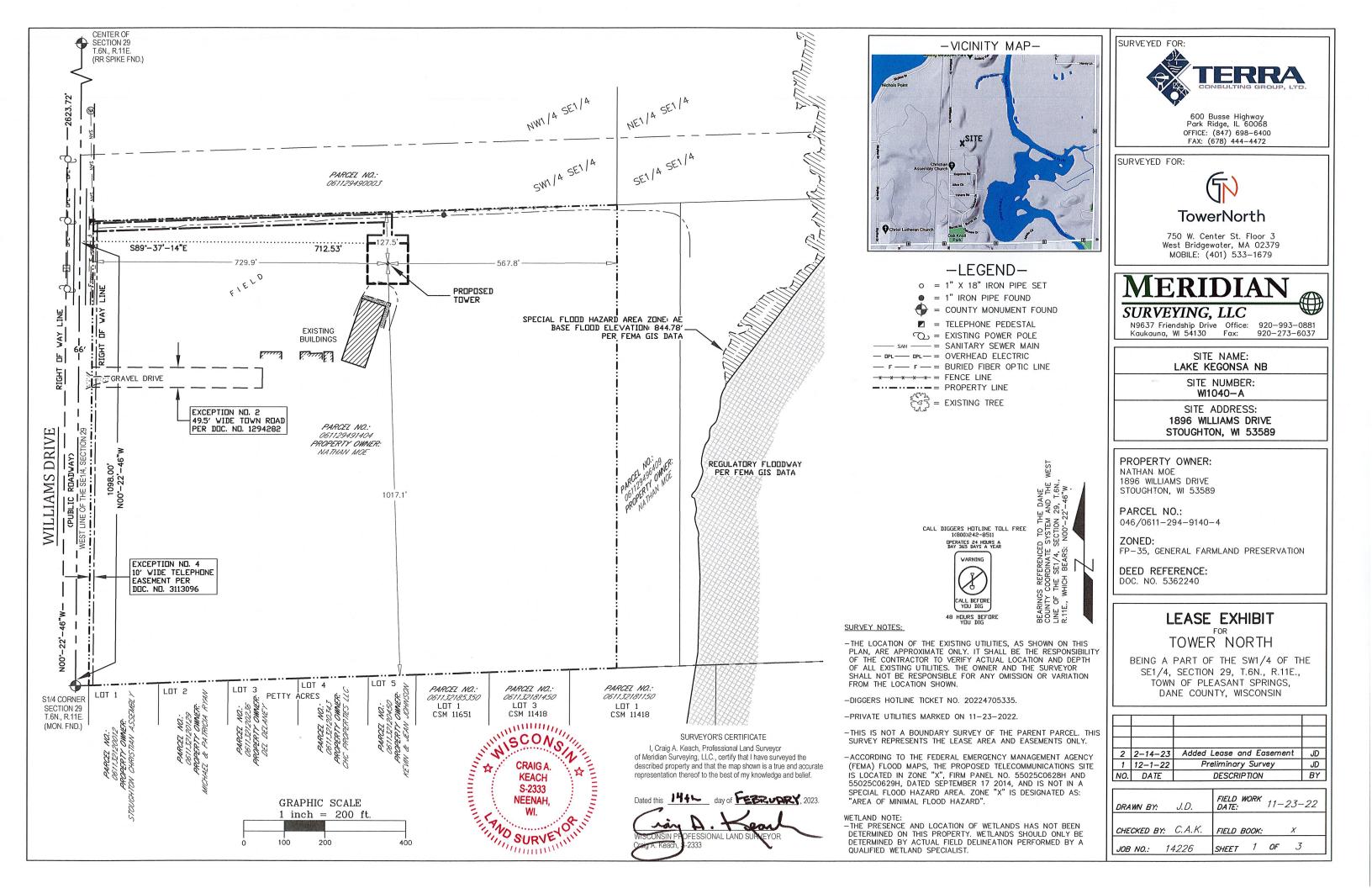
LEG	END:		
c=3	GROUND BAR OR ARRESTOR BAR	<u>_</u> 9	SPARE GROUND LEAD
\otimes	5/8"Ø x 10'-0" GROUND ROD		MECHANICAL CONNECTION
0	GROUND SYSTEM TEST WELL		- EXISTING GROUNDING
•	CADWELD OR APPROVED CONNECTION		- NEW GROUNDING

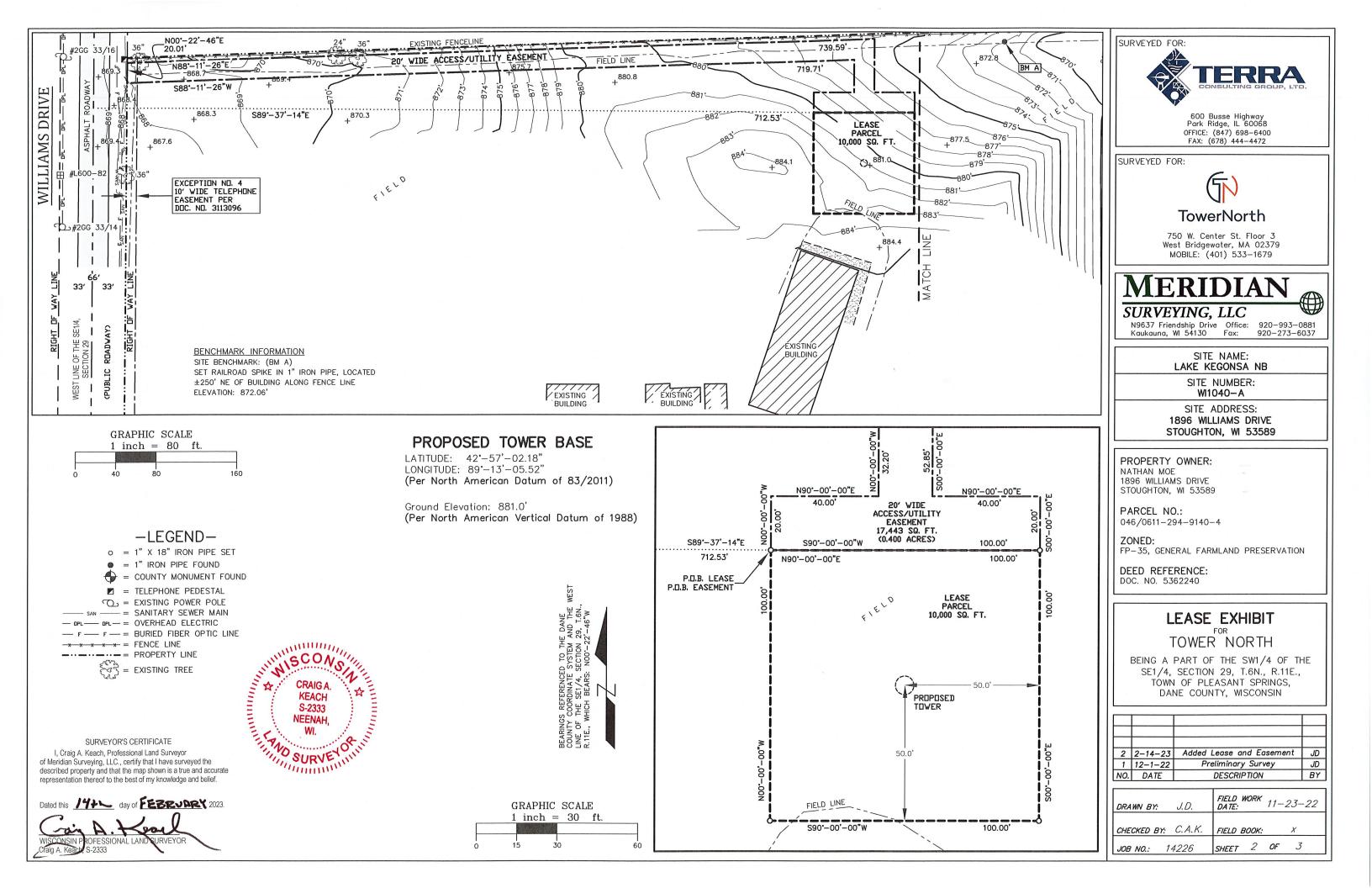












LEASE PARCEL

A PART OF THE SOUTHWEST QUARTER (SW1/4) OF THE SOUTHEAST QUARTER (SE1/4) OF SECTION TWENTY-NINE (29), TOWNSHIP SIX (6) NORTH, RANGE ELEVEN (11) EAST, TOWN OF PLEASANT SPRINGS, DANE COUNTY, WISCONSIN CONTAINING 10,000 SQUARE FEET (0.230 ACRES) OF LAND AND BEING DESCRIBED BY:

COMMENCING AT THE SOUTH QUARTER CORNER OF SAID SECTION 29; THENCE N00°-22'-46"W 1098.00 FEET ALONG THE WEST LINE OF THE SE1/4 OF SAID SECTION 29; THENCE S89°-37'-14"E 712.53 FEET TO THE POINT OF BEGINNING; THENCE N90°-00'-00"E 100.00 FEET; THENCE S00°-00'-00"E 100.00 FEET; THENCE S90°-00'-00"W 100.00 FEET; THENCE N00°-00'-00"W 100.00 FEET TO THE POINT OF BEGINNING; BEING SUBJECT TO ANY AND ALL EASEMENTS AND RESTRICTIONS OF RECORD.

20 FOOT WIDE ACCESS AND UTILITY EASEMENT

A PART OF THE SOUTHWEST QUARTER (SW1/4) OF THE SOUTHEAST QUARTER (SE1/4) OF SECTION TWENTY-NINE (29), TOWNSHIP SIX (6) NORTH, RANGE ELEVEN (11) EAST, TOWN OF PLEASANT SPRINGS, DANE COUNTY, WISCONSIN CONTAINING 17,443 SQUARE FEET (0.400 ACRES) OF LAND AND BEING DESCRIBED BY:

COMMENCING AT THE SOUTH QUARTER CORNER OF SAID SECTION 29; THENCE N00°-22'-46"W 1098.00 FEET ALONG THE WEST LINE OF THE SE1/4 OF SAID SECTION 29; THENCE S89°-37'-14"E 712.53 FEET TO THE POINT OF BEGINNING; THENCE N00°-00'-00"W 20.00 FEET; THENCE N90°-00'-00"E 40.00 FEET; THENCE N00°-00'-00"W 32.20 FEET; THENCE S88°-11'-26"W 719.71 FEET TO A POINT ON THE EAST RIGHT OF WAY LINE OF WILLIAMS DRIVE; THENCE N00°-22'-46"E 20.01 FEET ALONG SAID EAST RIGHT OF WAY LINE; THENCE N88°-11'-26"E 739.59 FEET; THENCE S00°-00'-00"E 52.85 FEET; THENCE N90°-00'-00"E 40.00 FEET; THENCE S00°-00'-00"E 20.00 FEET; THENCE S90°-00'-00"W 100.00 FEET TO THE POINT OF BEGINNING; BEING SUBJECT TO ANY AND ALL EASEMENTS AND RESTRICTIONS OF RECORD.

PARENT PARCEL

THE SOUTH HALF OF THE SOUTHEAST QUARTER OF SECTION 29, TOWNSHIP 6 NORTH, RANGE 11 EAST, EXCEPT THE NORTH 165 FEET THEREOF, TOWN OF PLEASANT SPRINGS, DANE COUNTY, WISCONSIN.

TITLE REPORT REVIEW

TITLE REPORT: BADGER TITLE COMPANY

COMMITMENT NO.: 2249790311

EFFECTIVE DATE: JANUARY 9, 2023

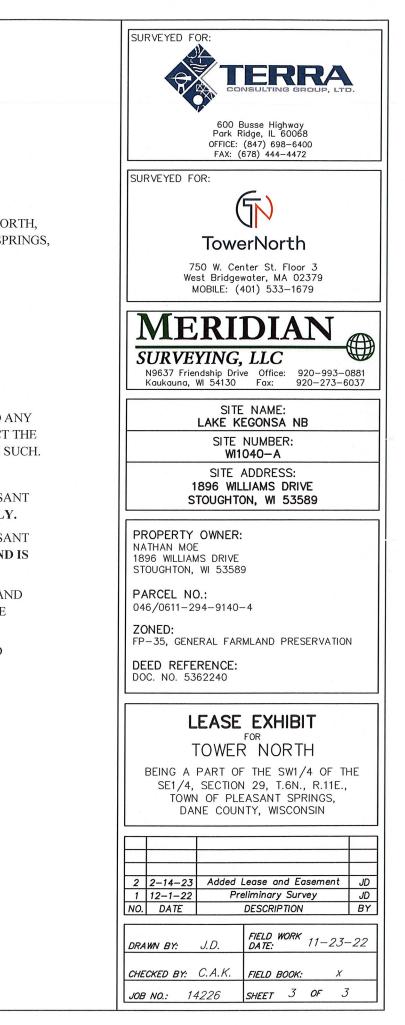
FEE SIMPLE TITLE VESTED IN: NATHAN M. MOE

NOTE: THE STATEMENT OF APPLICABILITY REFERS TO THE LEASE SITE AND ANY EASEMENTS PERTINENT THEREUNTO WHERE SPECIFIC ENCUMBRANCES AFFECT THE LEASED PREMISES AND/OR A PERTINENT EASEMENT, THEY ARE IDENTIFIED AS SUCH.

SCHEDULE B-II

- (1) CONVEYANCE OF LANDS FOR HIGHWAY PURPOSES TO THE TOWN OF PLEASANT SPRINGS DATED 11/26/1949 AND RECORDED AS DOC. 816385. DOES NOT APPLY.
- (2) CONVEYANCE OF LANDS FOR HIGHWAY PURPOSES TO THE TOWN OF PLEASANT SPRINGS DATED 6/22/1971 AND RECORDED AS DOC. 1294282. **DOES APPLY AND IS PLOTTED AND SHOWN.**
- (3) GRANT AGREEMENT REGARDING PRIVATE SEWAGE SYSTEM DATED 8/3/83 AND RECORDED AS DOC. 1793754. GRANT AND AGREEMENT REGARDING PRIVATE SEWER SYSTEM. **DOES APPLY BUT IS NOT A SURVEY RELATED MATTER.**
- (4) EASEMENT TO WISCONSIN BELL, INC. D/B/A AMERITECH WISCONSIN DATED 3/1/1999 AND RECORDED AS DOC. 3113096.GRANT OF EASEMENT FOR TRANSMISSION OF SIGNALS. **DOES APPLY AND IS PLOTTED AND SHOWN.**





fuze RFDS

MIDWEST > Upper Midwest > Illinois/Wisconsin > Wisconsin > Lake_Kegonsa_NB

RF Submit by: Parikh, Hemal - hemal.parikh@verizonwireless.com - 9/11/2023, 10:05:01 AM EE Submit by: Sullivan, Charity - charity.sullivan@verizonwireless.com - 1/22/2024, 12:27:05 PM

Project Details	Location Information						
FUZE Project ID: 16679409	Site ID: 617098737						
Project Name: Lake_Kegonsa_NB	E-NodeB ID:						
Project Alt Name: Lake_Kegonsa_NB	MDG Location ID: 5000889243						
Project Type: Initial Build	PSLC: 706115						
Modification Type:	Switch Name:						
Designed Sector Carrier 4G: 33	Tower Owner:						
Designed Sector Carrier 5G: 3	Tower Type: Self Support (Lattice Tower) Site Type: MACRO						
Additional Sector Carrier 4G: N/A							
Additional Sector Carrier 5G: N/A	Site Sub Type: TRADITIONAL						
FP Solution Type & Tech Type: MCR;4G_700,4G_AWS,4G_AWS3,4G_CBRS,4G_PCS,5	G_L- Street Address: 1896 Williams Dr						
Sub6-Prep,5G_PCS	City: Stoughton						
Carrier Aggregation: false	State: WI						
MPT Id:	Zip Code: 53589						
eCIP-0: false	County: Dane						
Suffix:	Latitude: 42.95060556 / 42° 57' 2.18" N						
	Longitude: -89.21808333 / 89° 13' 5.1" W						

								Antenna S	ummary								
Added																	
700	1900	AWS	AWS3	CBRS	L-Sub6	Make	Atoll Model	Item Description	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID	
				LTE		ERICSSON INC	KRE105281/1	ANTENNA 6524, 4T4R MICRO DLRECTIONAL 340	173	173.3	0(19) 110(20) 240(21)		false	PHYSICAL	3	1900055217	
					5G	ERICSSON INC	KRD901252/11	AIR 6419 B77D Radio Unit	177	178.2	0(1) 110(2) 240(3)		false	PHYSICAL	3	1900476463	
LTE	LTE 5G	LTE	LTE			COMMSCOPE	NHH-65C-R2B	HEX PORT, AWS/PCS/700/850, 8 FT, 65 HBW,	175	179	0(1) 110(2) 240(3)		false	PHYSICAL	6	1900056293	
Remove	d																
700	1900	AWS	AWS3	CBRS	L-Sub6	Make	Atoli Model	Item Description	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID	
								No data avai	lable.								
Retained	4																
700	1900	AWS	AWS3	CBRS	L-Sub6	Make	Atoll Model	Item Description	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID	
								No data avai	lable.								

 RFDS Project Scope:
 1/22/24 updated upconverter model # (cls)

 9/12/23 Updated hybrid size; RF recently updated radios/ant (cls)

 9/14/23 added cabinet BOM (cls)

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Ground (Outdoor)							JMA INFORMATION TECHNOLOGY	PB-PSU-162-BB	BOOST 2 CH 160
Ground (Outdoor)							JMA INFORMATION TECHNOLOGY	PB-PSU-COV-BB	SLOT BI COVER,
Tower							COMMSCOPET- 001	HFT1206-24SV4-xxxG	
Ground (Outdoor)							ABB LTDA	1600138837A	NES482 AC5H-P - INFINI
Tower							RAYCAPINC-001	3315-ALM-RS485	RETROP THE 60 BOX
Ground (Outdoor)							ASENTRIA CORP	5006-046	POWER KIT, PRE
Ground (Outdoor)							ERICSSON INC	KDU1370015/11	BASEB/ DIGITAL (SECUR
Ground (Outdoor)							LINEAGE POWER CORP	109142980	TEMPER
Ground (Outdoor)							LINEAGE POWER CORP	109157434	TEMPER PROBE 20FT
Removed									
Location	700	1900	AWS	AWS3	CBRS	L-Sub6	Make	Atoll Model	Item Des
									No da
Retained									
Location	700	1900	AWS	AWS3	CBRS	L-Sub6	Make	Atoll Model	Item Des
									No da

Equipment Summary

Added												
Location	700	1900	AWS	AWS3	CBRS	L-Sub6	Make	Atoll Model	Item Description	Install Type	Quantity	Item ID
Tower						5G	ERICSSON INC	KRD901252/11	AIR 6419 B77D Radio Unit	PHYSICAL	0	1900476463
Tower		LTE 5G	LTE				Ericsson	4890		PHYSICAL	3	
Tower					LTE		ERICSSON INC	4408 B48 DC	RADIO 4408 B48 HW 1	PHYSICAL	3	1900068745
Tower	LTE						Ericsson	4490		PHYSICAL	3	
Ground (Outdoor)							JMA INFORMATION TECHNOLOGY	PB-19-SYS-16-BB	19IN 16 OUTPUT DC BOOST SHELF wOMM	PHYSICAL	1	1900433072
Ground (Outdoor)							RAYCAP INC	RVZDC-3315-PF-48	Tower Top and Base power protection fibe	PHYSICAL	3	1900422667
Ground (Outdoor)							ASENTRIA CORP	S3406CRANCAB1	S340/6C2RC/A/DC,	PHYSICAL	1	1900077176
Ground (Outdoor)							LINEAGE POWER CORP	848817635	CA ALARM 50FT SYSTEMS W/ EXTERNAL DISTRB	PHYSICAL	1	1900153449
Ground (Outdoor)							GEMINI POWER SYSTEMS INC	109163473	NE075AC48ATEZ RECTIFIER 175 - 275VAC INP	PHYSICAL	6	1900436527
Ground (Outdoor)							ASENTRIA CORP	2060-115	S340 ALARM CABLE ACCESSORY	PHYSICAL	1	1900076812
Ground (Outdoor)							ASENTRIA CORP	2060-118	CUSTOM RJ45 ALARM CABLE 32FT	PHYSICAL	1	1900076600
Ground (Outdoor)							RAYCAP INC	3315-ALM-RS485	RETROFIT FOR THE 60VP DIST BOX	PHYSICAL	3	1900070685
Ground (Outdoor)							NOKIA INC	3HE16444AD	VzW 7250 IXR-E LRG GNSS DC R22.x	PHYSICAL	1	1900440007
Ground (Outdoor)							COMMSCOPE	760250651	CMC85-36, HVAC-4KW, HTR- 1KW, 3 STR, VRLA	PHYSICAL	1	1900064359
Ground (Outdoor)							ABB LTDA	848822321	THERMAL PROBE DAISY CHAIN CABLE	PHYSICAL	1	1900452342
Tower							RAYCAPINC-001	RVZDC-3315-PF-48	TOWER TOP AND BASE POWER PROTECTION FIBE	PHYSICAL	3	00000001900422

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Antenna Summary

Added: 12 Removed: 0 Retained: 0

Page 2 of 15

MODULE 00 A	PHYSICAL	6	1900400627
LANK PSU	PHYSICAL	2	1900400632
	PHYSICAL	3	
24-23- 9512-DC2E TY S	PHYSICAL	1	1900073751
FIT FOR VP DIST	PHYSICAL	3	00000001900070
WIRING	PHYSICAL	1	1900070746
AND 6648; . UNIT ITY LO	PHYSICAL	2	1900081641
RATURE	PHYSICAL	2	1900153743
CABLE	PHYSICAL	1	1900153751
scription	Install Type	Quantity	Item ID
ata available.			
cription	Install Type	Quantity	Item ID
ata available.			

Se	rvice	Info

AWS3 LTE	
AWS3 LIE	
	Secto
	Azimut
	Cell / ENode B I
	Antenna Mode
	Antenna Mak
	Antenna Centerline(F
	Mechanical Down-Tilt(Deg
	Electrical Down-Ti
	Tip Heigh
	Regulatory Powe
	DLEARFCM
	Channel Bandwidth(MH
	Total ERP (W
	TMA Mak
	TMA Mode
	BBU Mak
	BBU Mode
	Number of Tx, Rx Line
	Positio
	Transmitter I
	I ransmitter I Sourc
	Sourc

	PRIM	
01	02	03
0	110	240
NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B
COMMSCOPE	COMMSCOPE	COMMSCOPE
175	175	175
0	0	0
0	0	0
179	179	179
377.19	377.19	377.19
66936	66936	66936
10	10	10
2069.19	2069.19	2069.19
Ericsson	Ericsson	Ericsson
4890	4890	4890
4,4	4,4	4,4
15250547	15250552	15250539
ATOLL API	ATOLL API	ATOLL API

	RS 3 5 GHz
Sector	
Azimuth	
Cell / ENode B ID	
Antenna Model	
Antenna Make	
Antenna Centerline(Ft)	
Mechanical Down-Tilt(Deg.)	
Electrical Down-Tilt	
Tip Height	
Regulatory Power	
DLEARFCN	
Channel Bandwidth(MHz)	
Total ERP (W)	
TMA Make	
TMA Model	
RRU Make	
RRU Model	
Number of Tx, Rx Lines	
Position	
Transmitter Id	
Source	

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etary and Confidential. Not for disclosure outsi		
	e or venzon.	
ERICSSON	21	21
173	240	240
0		
9	KRE105281/1	KRE105281/1
173.3		
28.03	ERICSSON	ERICSSON
56090	173	173
10	0	0
38.44	9	9
50.44	173.3	173.3
	28.03	28.03
Ericsson	55990	55890
4408 B48 DC	10	10
4408 848 80	38.44	38.44
4,4	30.44	38.44
15251168		
ATOLL_API	Ericsson	Ericsson
	4408 B48 DC	4408 B48 DC
	4408 848 80	4400 040 0C
		4,4
	15251102	15251036
	ATOLL_API	ATOLL API

TE
Sector
Azimuth
Cell / ENode B ID
Antenna Model
Antenna Make
Antenna Centerline(Ft)
Mechanical Down-Tilt(Deg.)
Electrical Down-Tilt
Tip Height
Regulatory Power
DLEARFCN
Channel Bandwidth(MHz)
Total ERP (W)
TMA Make
TMA Model
RRU Make
RRU Model
Number of Tx, Rx Lines
Position
Transmitter Id
Source

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	PRIM	
19	19	19
0	0	0
KRE105281/1	KRE105281/1	KRE105281/1
ERICSSON	ERICSSON	ERICSSON
173	173	173
0	0	0
9	9	9
173.3	173.3	173.3
28.03	28.03	28.03
55790	56090	55990
10	10	10
38.44	38.44	38.44
38.44	38.44	38.44
Ericsson	Ericsson	Ericsson
4408 B48 DC	4408 B48 DC	4408 B48 DC
4,4	4,4	4400 840 80
15250968	15251166	15251100
ATOLL_API	ATOLL_API	ATOLL_API
19	20	20
0	110	110
KRE105281/1	KRE105281/1	KRE105281/1
ERICSSON	ERICSSON	ERICSSON
173	173	173
0	0	0
9	9	9
173.3	173.3	173.3
28.03	28.03	28.03
55890	55790	56090
10	10	10
38.44	38.44	38.44
Ericsson	Ericsson	Ericsson
4408 B48 DC	4408 B48 DC	4408 B48 DC
4,4	4,4	4,4
15251034	15250969	15251167
ATOLL_API	ATOLL_API	ATOLL_API
20	20	21
110	110	240
KRE105281/1	KRE105281/1	KRE105281/1
ERICSSON	ERICSSON	ERICSSON
173	173	173
0	0	0
9	9	9
173.3	173.3	173.3
28.03	28.03	28.03
55990	55890	55790
10	10	10
38.44	38.44	38.44
Ericsson	Ericsson	Ericsson
4408 B48 DC	4408 B48 DC	4408 B48 DC
4,4	4,4	4,4
	15251035	15250970
15251101		ATOLL API
ATOLL_API	ATOLL_API	
	ATOLL_API	
ATOLL_API	ATOLL_API	
ATOLL_API 21	ATOLL_API	

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	PRIM	
01	02	03
0	110	240
NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B
COMMSCOPE	COMMSCOPE	COMMSCOPE
175	175	175
0	0	0
0	0	0
179	179	179
149.82	149.82	149.82
5230	5230	5230
10	10	10
1348.34	1348.34	1348.34
Ericsson	Ericsson	Ericsson
4490	4490	4490
4,4	4,4	4,4
15250543	15250549	15250554
ATOLL API	ATOLL API	ATOLL API

Hz LTE		PRIM	
Sector	01	01	02
Azimuth	0	0	110
Cell / ENode B ID			
Antenna Model	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B
Antenna Make	COMMSCOPE	COMMSCOPE	COMMSCOPE
Antenna Centerline(Ft)	175	175	175
Mechanical Down-Tilt(Deg.)	0	0	0
Electrical Down-Tilt	0	0	0
Tip Height	179	179	179
Regulatory Power	251.46	754.38	251.46
DLEARFCN	875	975	875
Channel Bandwidth(MHz)	15	5	15
Total ERP (W) TMA Make	2069.19	2069.19	2069.19
TMA Model			
RRU Make	Ericsson	Ericsson	Ericsson
RRU Model	4890	4890	4890
Number of Tx, Rx Lines	4,4	4,4	4,4
Position			
Transmitter Id	15251414	15251417	15251415
Source	ATOLL_API	ATOLL_API	ATOLL_API
	02	03	03
	110	240	240
	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B
	COMMSCOPE	COMMSCOPE	COMMSCOPE
	175	175	175
	0	0	0
	0	0	0
	179	179	179
	754.38	251.46	754.38
	975	875	975
	5	15	5
	2069.19	2069.19	2069.19
	Ericsson	Ericsson	Ericsson
	4890	4890	4890
	4,4	4,4	4,4
	15251418	15251416	15251419
	ATOLL API	ATOLL API	ATOLL API
	ATOLL_API	ATOLL_API	ATOLL_API

900 MHz 5GNR	
Sector	
Azimuth	
Cell / ENode B ID	
Antenna Model	
Antenna Model	
Antenna Make	
Antenna Centerline(Ft)	
Mechanical Down-Tilt(Deg.)	
Electrical Down-Tilt	
Tip Height	
Regulatory Power	
DLEARFCN	
Channel Bandwidth(MHz)	
Total ERP (W)	
TMA Make	
TMA Model	
RRU Make	
RRU Model	
Number of Tx, Rx Lines	
Position	
Transmitter Id	
Source	
100 MHz LTE	
Sector	
Azimuth Cell / ENode B ID	
Antenna Model	
Antenna Make	
Antenna Centerline(Ft)	
Mechanical Down-Tilt(Deg.)	
Electrical Down-Tilt	
Tip Height	
Regulatory Power	
DLEARFCN	
Channel Bandwidth(MHz)	
Total ERP (W)	
TMA Make	
TMA Model	
RRU Make	
RRU Model	
Number of Tx, Rx Lines	
Position	
Transmitter Id	
Source	

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nL-Sub6		PRIM	
Sector	0001	0002	0003
Azimuth	0	110	240
Cell / ENode B ID			
Antenna Model	AIR6419	AIR6419	AIR6419
Antenna Make	Ericsson	Ericsson	Ericsson
Antenna Centerline(Ft)	177	177	177
Mechanical Down-Tilt(Deg.)	0	0	0
Electrical Down-Tilt	0	0	0
Tip Height	178.2	178.2	178.2
Regulatory Power	690.52	690.52	690.52
DLEARFCN	650006, 654652	650006, 654652	650006, 654652
Channel Bandwidth(MHz)	40,100	40,100	100,40
Total ERP (W)	27989.81	27989.81	27989.81
TMA Make			
TMA Model			
RRU Make	Ericsson	Ericsson	Ericsson
RRU Model	AIR6419	AIR6419	AIR6419
Number of Tx, Rx Lines	2,2	2,2	2,2
Position			
Transmitter Id	15250548	15250553	15250540
Source	ATOLL_API	ATOLL_API	ATOLL_API

Sector	Antenna Make	Antenna Model	Ant CL	Tip	Azimuth	Elec	Mech	Gain	Beam	Regulatory	Callsigns								
			Height AGL	Height	(TN)	Tilt	Tilt		Width	Power	700	850	1900	2100	28 GHz	31 GHz	39 GHz	CBRS	LSub6
20	ERICSSON	KRE105281/1	173	173.3	110	9	0	8.848	62	28.03								CBRS_CAL	
19	ERICSSON	KRE105281/1	173	173.3	0	9	0	8.848	62	28.03								CBRS_CAL	
21	ERICSSON	KRE105281/1	173	173.3	240	9	0	8.848	62	28.03								CBRS_CAL	
21	ERICSSON	KRE105281/1	173	173.3	240	9	0	8.848	62	28.03								CBRS_CAL	
03	COMMSCOPE	NHH-65C-R2B	175	179	240	0	0	15.218	66	377.19				WQGA717					
0002	COMMSCOPE	NHH-65C-R2B	175	179	110	0	0	15.218	66	251.46			KNLF240						
03	COMMSCOPE	NHH-65C-R2B	175	179	240	0	0	13.878	65	149.82	WQJQ691								
0002	Ericsson	AIR6419	177	178.2	110	0	0	23	102.65	690.52									WRNF7 WRNF7 WRNF7
1	COMMSCOPE	NHH-65C-R2B	175	179	0	0	0	15.218	66	377.19				WQVN981 WQVP249					
3	COMMSCOPE	NHH-65C-R2B	175	179	240	0	0	15.218	66	754.38			KNLH214						
20	ERICSSON	KRE105281/1	173	173.3	110	9	0	8.848	62	28.03								CBRS_CAL	
21	ERICSSON	KRE105281/1	173	173.3	240	9	0	8.848	62	28.03								CBRS_CAL	
0001	Ericsson	AIR6419	177	178.2	0	0	0	23	102.65										WRNF7 WRNF7 WRNF7 WRNF7 WRNF7
02	COMMSCOPE	NHH-65C-R2B	175	179	110	0	0	15.218	66	251.46			KNLF240						
0003	COMMSCOPE	NHH-65C-R2B	175	179	240	0	0	15.218	66	251.46			KNLF240						
02	COMMSCOPE	NHH-65C-R2B	175	179	110	0	0	13.878	65	149.82	WQJQ691								
20	ERICSSON	KRE105281/1	173	173.3	110	9	0	8.848	62	28.03								CBRS_CAL	
19	ERICSSON	KRE105281/1	173	173.3	0	9	0	8.848	62	28.03								CBRS_CAL	
01	COMMSCOPE	NHH-65C-R2B	175	179	0	0	0	15.218	66	251.46			KNLF240						
0003	Ericsson	AIR6419	177	178.2	240	0	0	23	102.65	690.52									WRNF7 WRNF7 WRNF7 WRNF7 WRNF7
0001	Ericsson	AIR6419	177	178.2	0	0	0	23	102.65	690.52									WRNF7 WRNF7 WRNF7
1	COMMSCOPE	NHH-65C-R2B	175	179	0	0	0	15.218	66	377.19				WQGA717					
)2	COMMSCOPE	NHH-65C-R2B	175	179	110	0	0	15.218	66	754.38			KNLH214						
!0	ERICSSON	KRE105281/1	173	173.3	110	9	0	8.848	62	28.03								CBRS_CAL	
9	ERICSSON	KRE105281/1	173	173.3	0	9	0	8.848	62	28.03								CBRS_CAL	
1	COMMSCOPE	NHH-65C-R2B	175	179	0	0	0	15.218	66	754.38			KNLH214						
2	COMMSCOPE	NHH-65C-R2B	175	179	110	0	0	15.218	66	377.19				WQVN981 WQVP249					

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	PRIM	
0001	0002	0003
0	110	240
NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2E
COMMSCOPE	COMMSCOPE	COMMSCOPE
175	175	175
0	0	0
0	0	0
179	179	179
251.46	251.46	251.46
875	875	875
15	15	15
2069.19	2069.19	2069.19
Ericsson	Ericsson	Ericsson
4890	4890	4890
4,4	4,4	4,4
15251414	15251415	15251416
ATOLL API	ATOLL API	ATOLL API
	PBIM	
01	02	03
0	110	240
ů.		240
NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2E
COMMSCOPE	COMMSCOPE	COMMSCOPE
175	175	175
0	0	0
0	0	0
179	179	179
377.19	377.19	377.19
2350	2350	2350
10	10	10
2069.19	2069.19	2069.19
Ericsson	Ericsson	Ericsson
4890	4890	4890
4,4	4,4	4,4
15250546	15250551	15250556

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0003	Ericsson	AIR6419	177	178.2	240	0	0	23	102.65	690.52						WRNF762 WRNF763 WRNF764
02	COMMSCOPE	NHH-65C-R2B	175	179	110	0	0	15.218	66	377.19			WQGA717			
01	COMMSCOPE	NHH-65C-R2B	175	179	0	0	0	13.878	65	149.82	WQJQ691					
19	ERICSSON	KRE105281/1	173	173.3	0	9	0	8.848	62	28.03					CBRS_CAL	
0002	Ericsson	AIR6419	177	178.2	110	0	0	23	102.65	690.52						WRNF758 WRNF759 WRNF760 WRNF761 WRNF762
0001	COMMSCOPE	NHH-65C-R2B	175	179	0	0	0	15.218	66	251.46		KNLF240				
03	COMMSCOPE	NHH-65C-R2B	175	179	240	0	0	15.218	66	251.46		KNLF240				
21	ERICSSON	KRE105281/1	173	173.3	240	9	0	8.848	62	28.03					CBRS_CAL	
03	COMMSCOPE	NHH-65C-R2B	175	179	240	0	0	15.218	66	377.19			WQVN981 WQVP249			

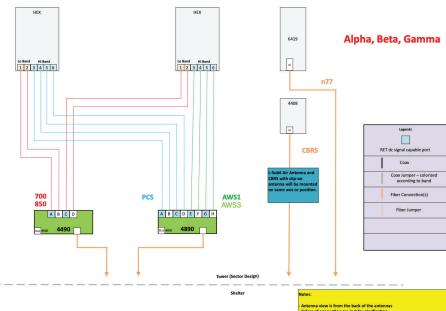
Callsign	Market	Radio Code	Market Number	Block	State	County	Licensee Name	Wholly Owned		Freq Range 1	Freq Range 2	Freq Range 3	Freq Range 4	Regulatory Power	Threshold (W)	POPs /Sq Mi	Status	Action	Approve for Insvc
CBRS_CALI	UNLICENSED	3.5 GHz	UNLICEN	UNLIC	UNLICI	Dane	UNLICENSED	UNLIC	UNLICEN	UNLICENSED- UNLICENSED	UNLICENSED- UNLICENSED	UNLICENSED- UNLICENSED	UNLICENSED- UNLICENSED	28.03	0	469.00	Active	added	No
WRHF329	Madison, WI	UU	PEA122	M4	55025	Dane	Cellco Partnership	Yes	100.000	37900.000- 38000.000	.000000	.000000	.000000		0	469.00	Active		Yes
WRNF758	Madison, WI	РМ	PEA122	A1	55025	Dane	Cellco Partnership	Yes	20.000	3700.000- 3720.000	.000000	.000000	.000000	690.52	1640	469.00	Active	added	Yes
WRNF759	Madison, WI	РМ	PEA122	A2	55025	Dane	Cellco Partnership	Yes	20.000	3720.000- 3740.000	.000000	.000000	.000000	690.52	1640	469.00	Active	added	Yes
WRHF332	Madison, WI	UU	PEA122	M7	55025	Dane	Cellco Partnership	Yes	100.000	38200.000- 38300.000	.000000	.000000	.000000		0	469.00	Active		Yes
WRNF764	Madison, WI	РМ	PEA122	B2	55025	Dane	Cellco Partnership	Yes	20.000	3820.000- 3840.000	.000000	.000000	.000000	690.52	1640	469.00	Active	added	Yes
KNLF240	Milwaukee	сw	MTA020	В	55025	Dane	Cellco Partnership	Yes	30.000	1870.000- 1885.000	1950.000- 1965.000	.000000	.000000	251.46	1640	469.00	Active	added	Yes
WRHF335	Madison, WI	UU	PEA122	N1	55025	Dane	Cellco Partnership	Yes	100.000	38600.000- 38700.000	.000000	.000000	.000000		0	469.00	Active		Yes
WRHF333	Madison, WI	UU	PEA122	M8	55025	Dane	Cellco Partnership	Yes	100.000	38300.000- 38400.000	.000000	.000000	.000000		0	469.00	Active		Yes
WRHF330	Madison, WI	UU	PEA122	M5	55025	Dane	Cellco Partnership	Yes	100.000	38000.000- 38100.000	.000000	.000000	.000000		0	469.00	Active		Yes
WQGA717	Great Lakes	AW	REA003	F	55025	Dane	Cellco Partnership	Yes	20.000	1745.000- 1755.000	2145.000- 2155.000	.000000	.000000	377.19	1640	469.00	Active	added	Yes
WRNF760	Madison, WI	РМ	PEA122	A3	55025	Dane	Cellco Partnership	Yes	20.000	3740.000- 3760.000	.000000	.000000	.000000	690.52	1640	469.00	Active	added	Yes
WQVN981	Madison, WI-IL-IA	AT	BEA104	н	55025	Dane	Cellco Partnership	Yes	10.000	1760.000- 1765.000	2160.000- 2165.000	.000000	.000000	377.19	1640	469.00	Active	added	Yes
WRHF328	Madison, WI	UU	PEA122	МЗ	55025	Dane	Cellco Partnership	Yes	100.000	37800.000- 37900.000	.000000	.000000	.000000		0	469.00	Active		Yes
WRNF761	Madison, WI	РМ	PEA122	A4	55025	Dane	Cellco Partnership	Yes	20.000	3760.000- 3780.000	.000000	.000000	.000000	690.52	1640	469.00	Active	added	Yes
WRNF762	Madison, WI	РМ	PEA122	A5	55025	Dane	Cellco Partnership	Yes	20.000	3780.000- 3800.000	.000000	.000000	.000000	690.52	1640	469.00	Active	added	Yes
WRHF326	Madison, WI	UU	PEA122	M10	55025	Dane	Cellco Partnership	Yes	100.000	38500.000- 38600.000	.000000	.000000	.000000		0	469.00	Active		Yes
WRHF331	Madison, WI	UU	PEA122	M6	55025	Dane	Cellco Partnership	Yes	100.000	38100.000- 38200.000	.000000	.000000	.000000		0	469.00	Active		Yes
WRHF325	Madison, WI	UU	PEA122	M1	55025	Dane	Cellco Partnership	Yes	100.000	37600.000- 37700.000	.000000	.000000	.000000		0	469.00	Active		Yes
KNLH214	Madison, WI	сw	BTA272	E	55025	Dane	AirTouch Cellular	Yes	10.000	1885.000- 1890.000	1965.000- 1970.000	.000000	.000000	754.38	1640	469.00	Active	added	Yes
WQVP249	Madison, WI	AT	CMA113	G	55025	Dane	Cellco Partnership	Yes	10.000	1755.000- 1760.000	2155.000- 2160.000	.000000	.000000	377.19	1640	469.00	Active	added	Yes
WQJQ691	Great Lakes	wu	REA003	с	55025	Dane	Cellco Partnership	Yes	22.000	746.000- 757.000	776.000- 787.000	.000000	.000000	149.82	1000	469.00	Active	added	Yes

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WRNF763	Madison, WI	РМ	PEA122	B1	55025	Dane	Cellco Partnership	Yes	20.000	3800.000- 3820.000	.000000	.000000	.000000	690.52	1640	469.00	Active	added	Yes
WRHF334	Madison, WI	UU	PEA122	M9	55025	Dane	Cellco Partnership	Yes	100.000	38400.000- 38500.000	.000000	.000000	.000000		0	469.00	Active		Yes
WREF949	C55025 - Dane, WI	UU	C55025	L1	55025	Dane	Cellco Partnership	Yes	425.000	27500.000- 27925.000	.000000	.000000	.000000		0	469.00	Active		Yes
WRHF327	Madison, WI	UU	PEA122	M2	55025	Dane	Cellco Partnership	Yes	100.000	37700.000- 37800.000	.000000	.000000	.000000		0	469.00	Active		Yes



Callsigns

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