

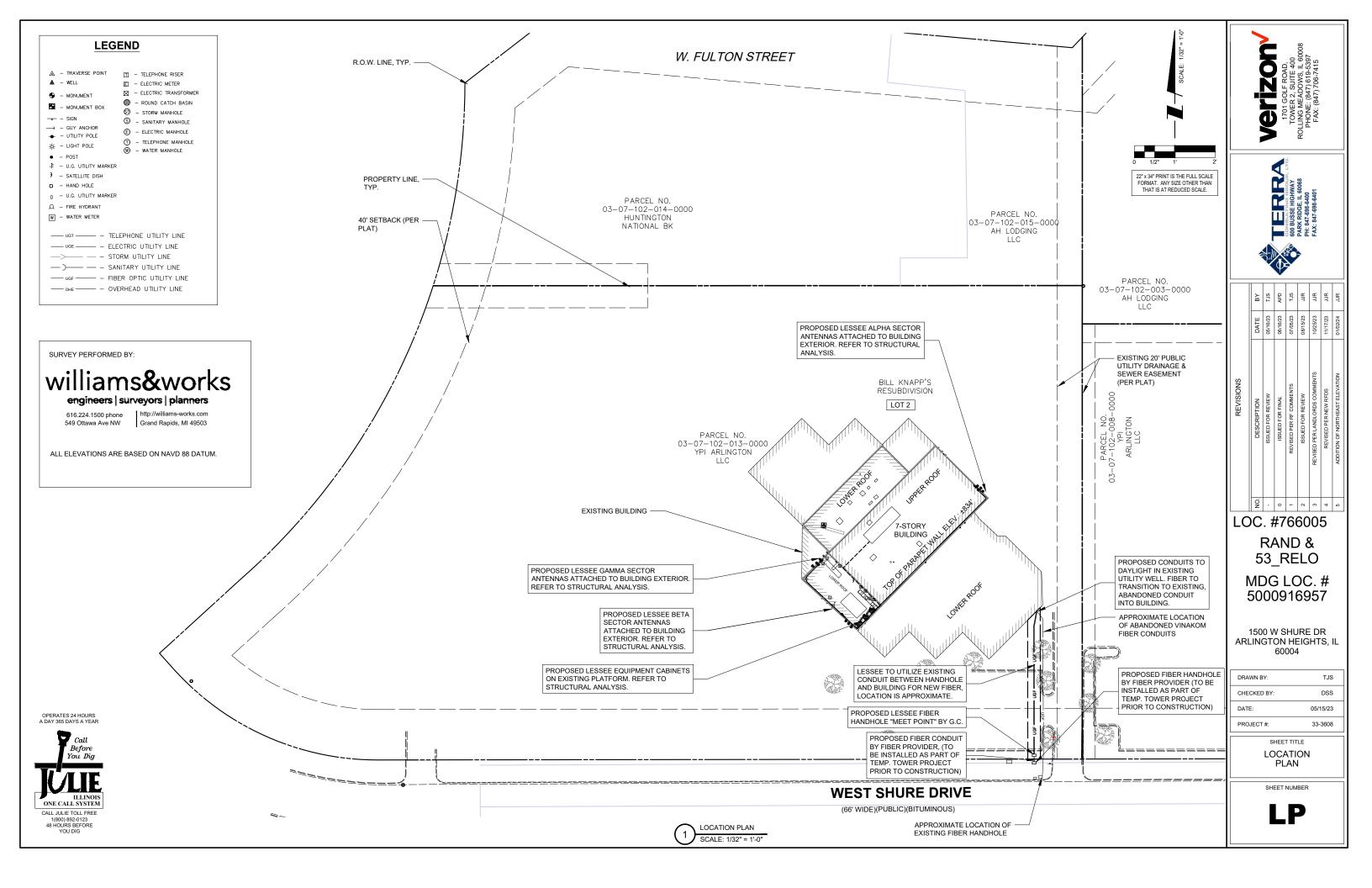
MDG LOCATION NUMBER: 5000916957 **LOCATION NUMBER: 766005** SITE NAME: RAND & 53_RELO 1500 W SHURE DR **ARLINGTON HEIGHTS, IL 60004**

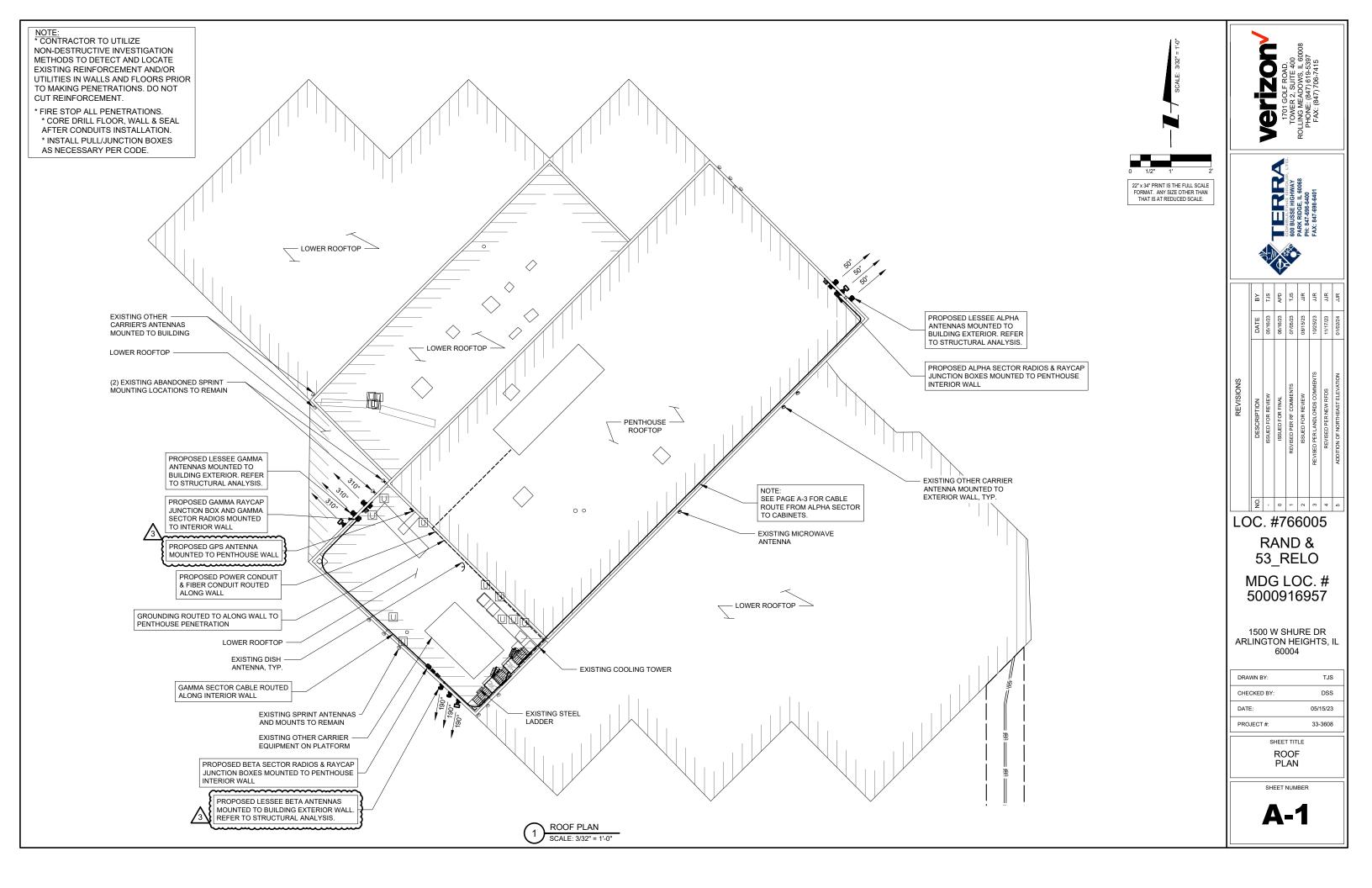
ANT-1 SITE ELEVATION ANT-1A SITE ELEVATION ANT-1 ANT-ANTENNA INFORMA ANT-2A EQUIPMENT INFORMATION ANTENNA INFORMATION ANT-2B ANTENNA LAYOUT PLAN ANT-3 ANT-4 SITE DETAILS STRUCTURAL PLAN AND DETAILS S-1 ANTENNA & EQUIPMENT MOUNTING DETAILS S-2 E-1 OVERALL UTILITY ROUTING PLAN (AT ROOF LEVEL) E-1A PARTIAL UTILITY ROUTING PLAN E-2 GROUNDING PLAN E-3 ELECTRICAL AND GROUNDING DETAILS E-4 E-5 PLATFORM LIGHTING PLAN SINGLE LINE DIAGRAM & PANEL SCHEDULE SP-1 SPECIFICATIONS SP-2 SPECIFICATIONS P-1 **BUILDING PHOTOS** PS-1 SITE SURVEY REDS (BY OTHERS)

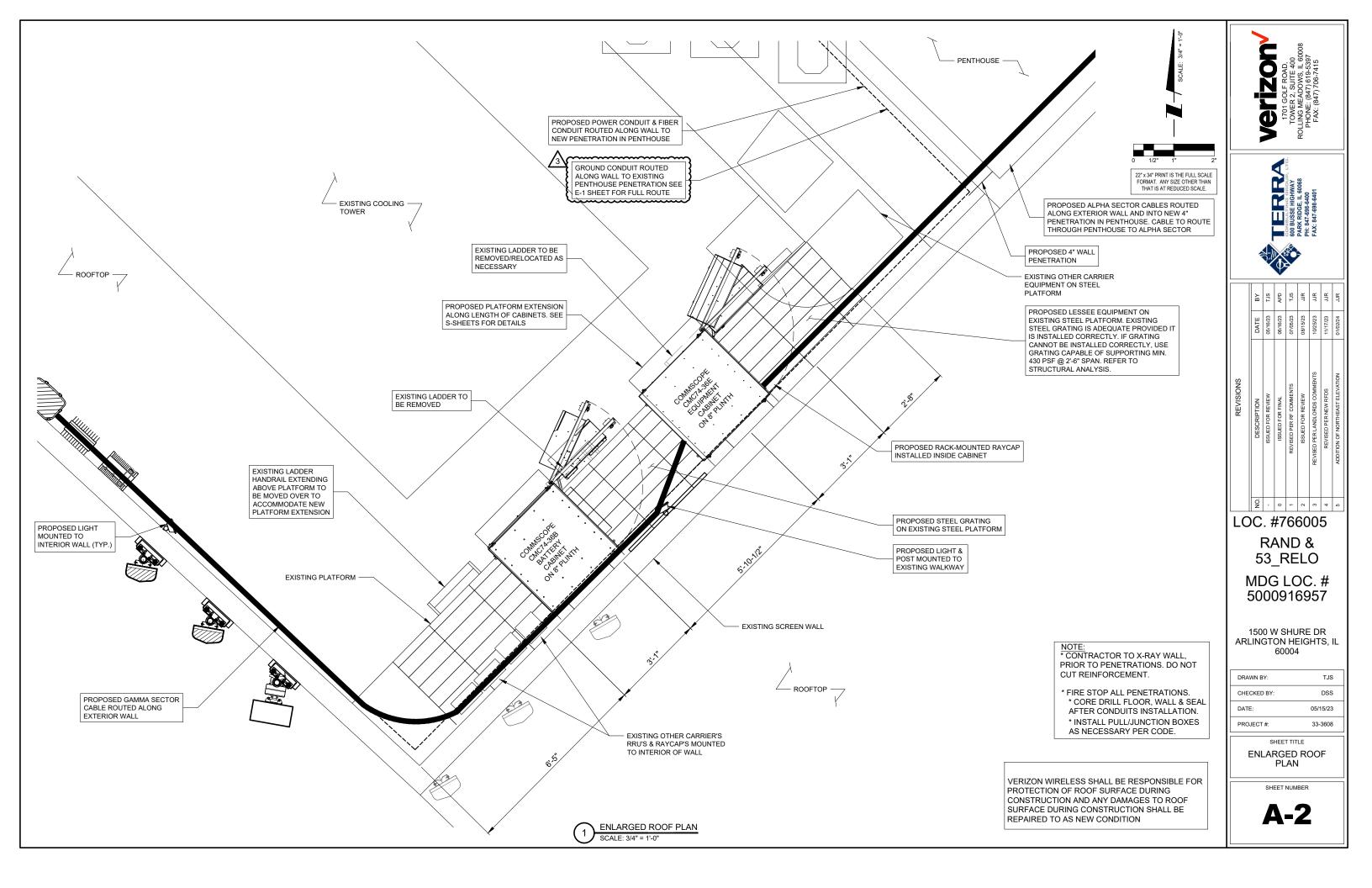
OPERATES 24 HOURS A DAY 365 DAYS A YEA

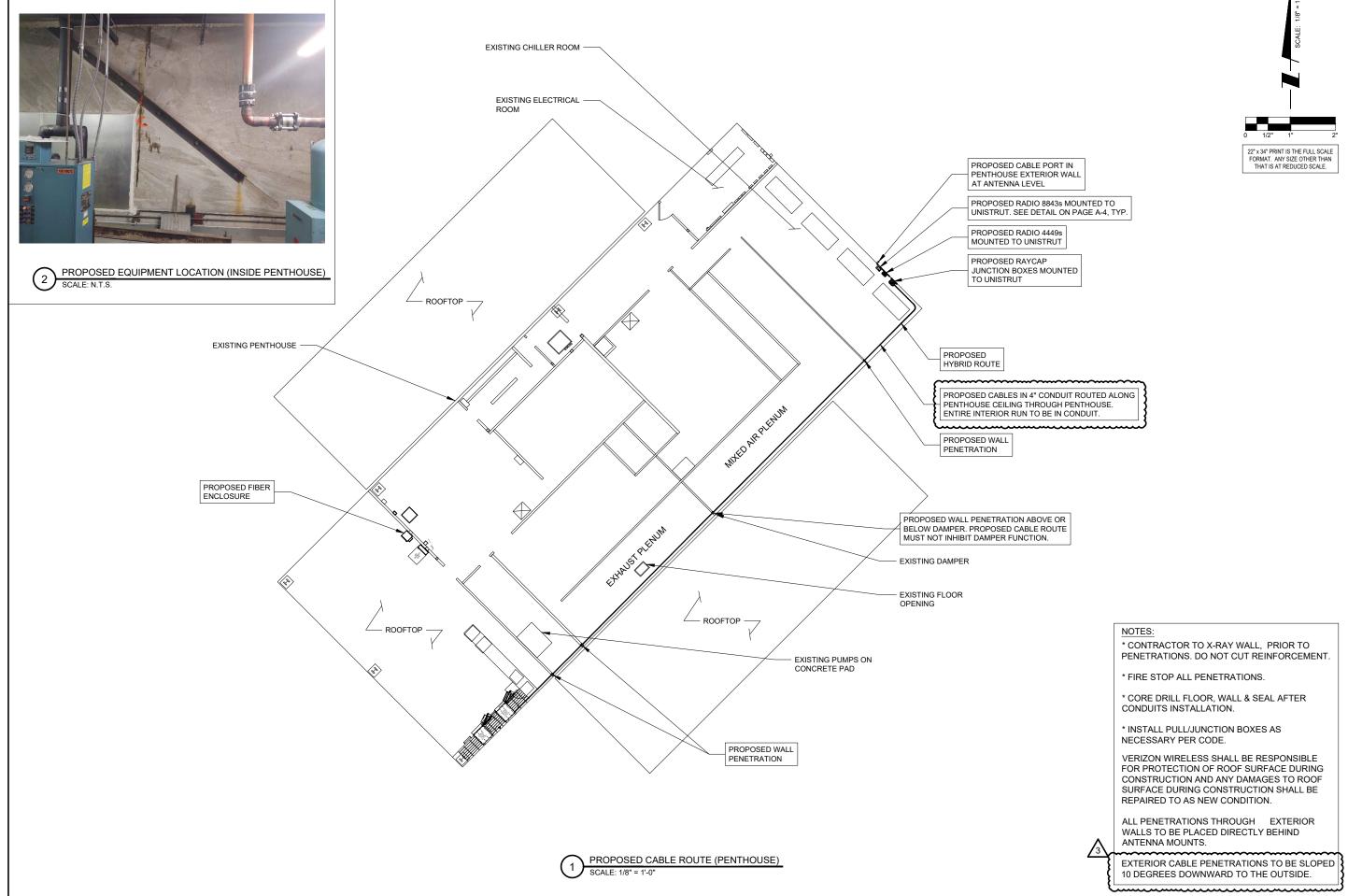


PROJECT TYPE verizon PROPOSED ANTENNAS AND EQUIPMENT PLATFORM INSTALLATION ON EXISTING BUILDING. **PROJECT INFORMATION** LATITUDE: 42° 08' 15.09" N (FROM 1A) LONGITUDE: 88° 00' 02.62" W (FROM 1A) 03-07-102-008-0000, 03-07-102-013-0000 ERRA FIBER: TRANSPORT BY OTHERS VILLAGE OF ARLINGTON HEIGHTS M-1 LIGHT MANUFACTURING DISTRICT PHONE: (260) 894-4145 EX. 2235 EMAIL: KHARTSOUGH@ERSWIRELESS.COM DRAWING INDEX REVISION 1,3,4 g 1,3 LOC. #766005 RAND & 53 RELO MDG LOC. # 5000916957 1.4 1.4 1500 W SHURE DR ARLINGTON HEIGHTS, IL 60004 1,3 3 1.3 DRAWN BY TJS 3 CHECKED BY DSS 3 05/15/23 DATE PROJECT #: 33-3608 SHEET TITLE TITLE SHEET 22" x 34" IS FULL SCALE. 11" x 17" IS HALF SCALE. **ATTACHMENTS** SHEET NUMBER 1-1

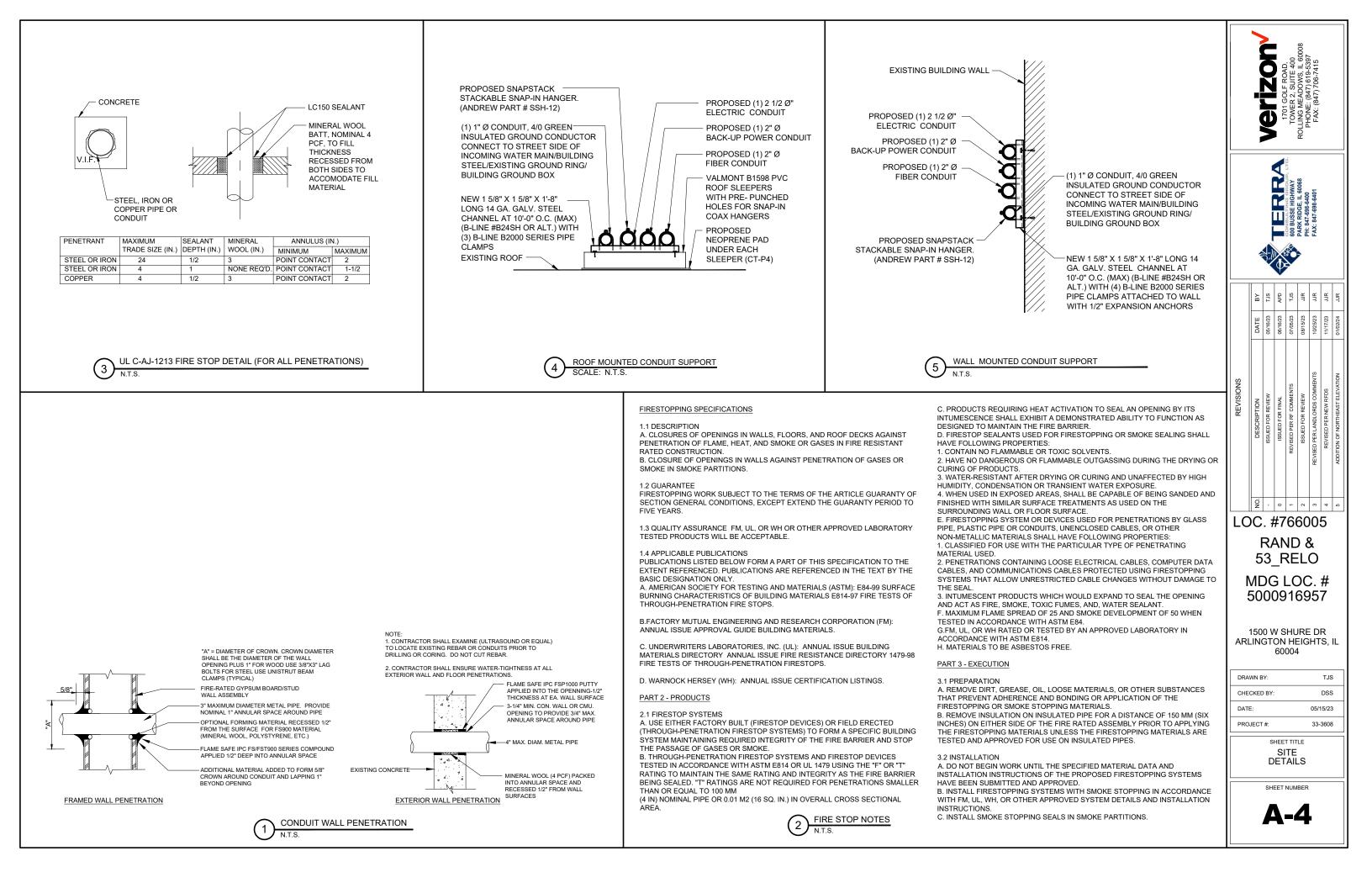


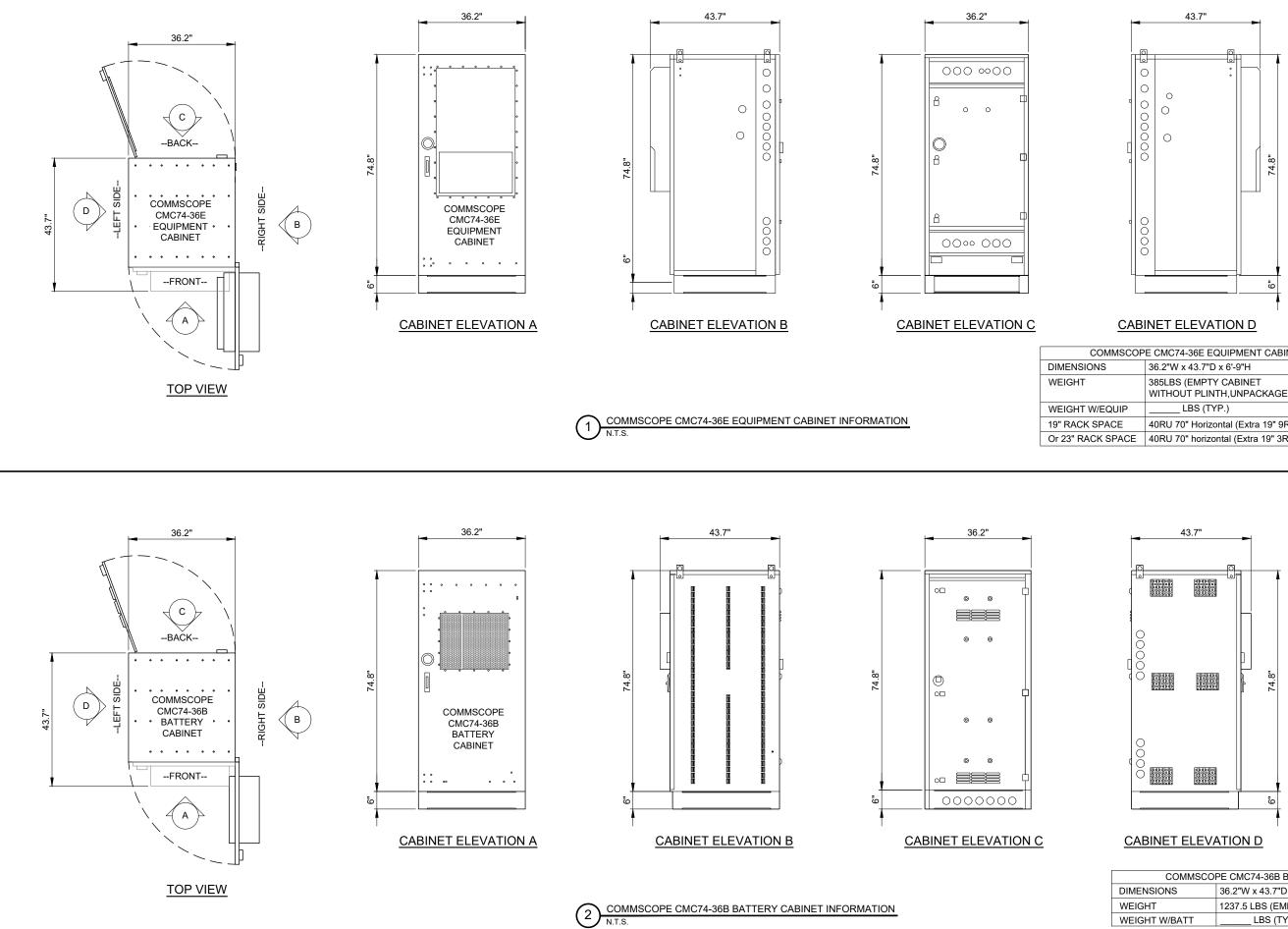






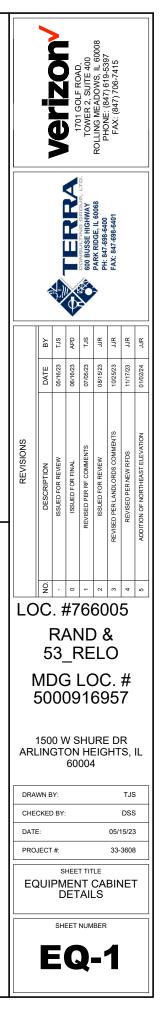
								-	_	_
	SCALE: 1/8" = 1-0"				1701 GOLE BOAD	TOWER 2, SUITE 400	ROLLING MEADOWS, IL 60008 PHONE: (847) 640 5307	FAX: (847) 706-7415		
ГО , Т	0 1/2" 1" 2" 22" x 3" PRINT IS THE FULL SCALE FORMAT. ANY SIZE OTHER THAN THAT IS AT REDUCED SCALE.		ŧ			600 BUSSE HIGHWAY	PARK RIDGE, IL 60068 PH: 847-698-6400	FAX: 847-698-6401		
			BΥ	TJS	APD	TJS	ЯЩ	JJR	JJR	al.
			DATE	05/16/23	06/16/23	07/05/23	08/15/23	10/25/23	11/17/23	01/02/24
	LONG	REVISIONS	DESCRIPTION	ISSUED FOR REVIEW	ISSUED FOR FINAL	REVISED PER RF COMMENTS 0	ISSUED FOR REVIEW	REVISED PER LANDLORDS COMMENTS	REVISED PER NEW RFDS	
			Ö		0	-	2	e	4	LC.
		LC	ا 5	R/ 3_	۹۲ F_	NE Re) (EL	8 0		
	NOTES: * CONTRACTOR TO X-RAY WALL, PRIOR TO PENETRATIONS. DO NOT CUT REINFORCEMENT.	Į	ИЕ 50	00	99	1	69	95	7	
	* FIRE STOP ALL PENETRATIONS.	ARI	150 _IN(ON		EIG			IL
	* CORE DRILL FLOOR, WALL & SEAL AFTER CONDUITS INSTALLATION.	DRA	WN E	BY:					TJS	3
	* INSTALL PULL/JUNCTION BOXES AS	CHE	CKEE	D BY:	:				DSS	3
	NECESSARY PER CODE. VERIZON WIRELESS SHALL BE RESPONSIBLE	DATE		· #:					15/23 3608	
	FOR PROTECTION OF ROOF SURFACE DURING CONSTRUCTION AND ANY DAMAGES TO ROOF SURFACE DURING CONSTRUCTION SHALL BE REPAIRED TO AS NEW CONDITION.			s PR	HEE OF	209	SEI			
	ALL PENETRATIONS THROUGH EXTERIOR WALLS TO BE PLACED DIRECTLY BEHIND ANTENNA MOUNTS.			SH	EET	NUN	IBER			
Į	EXTERIOR CABLE PENETRATIONS TO BE SLOPED 10 DEGREES DOWNWARD TO THE OUTSIDE.			ļ		-	3			

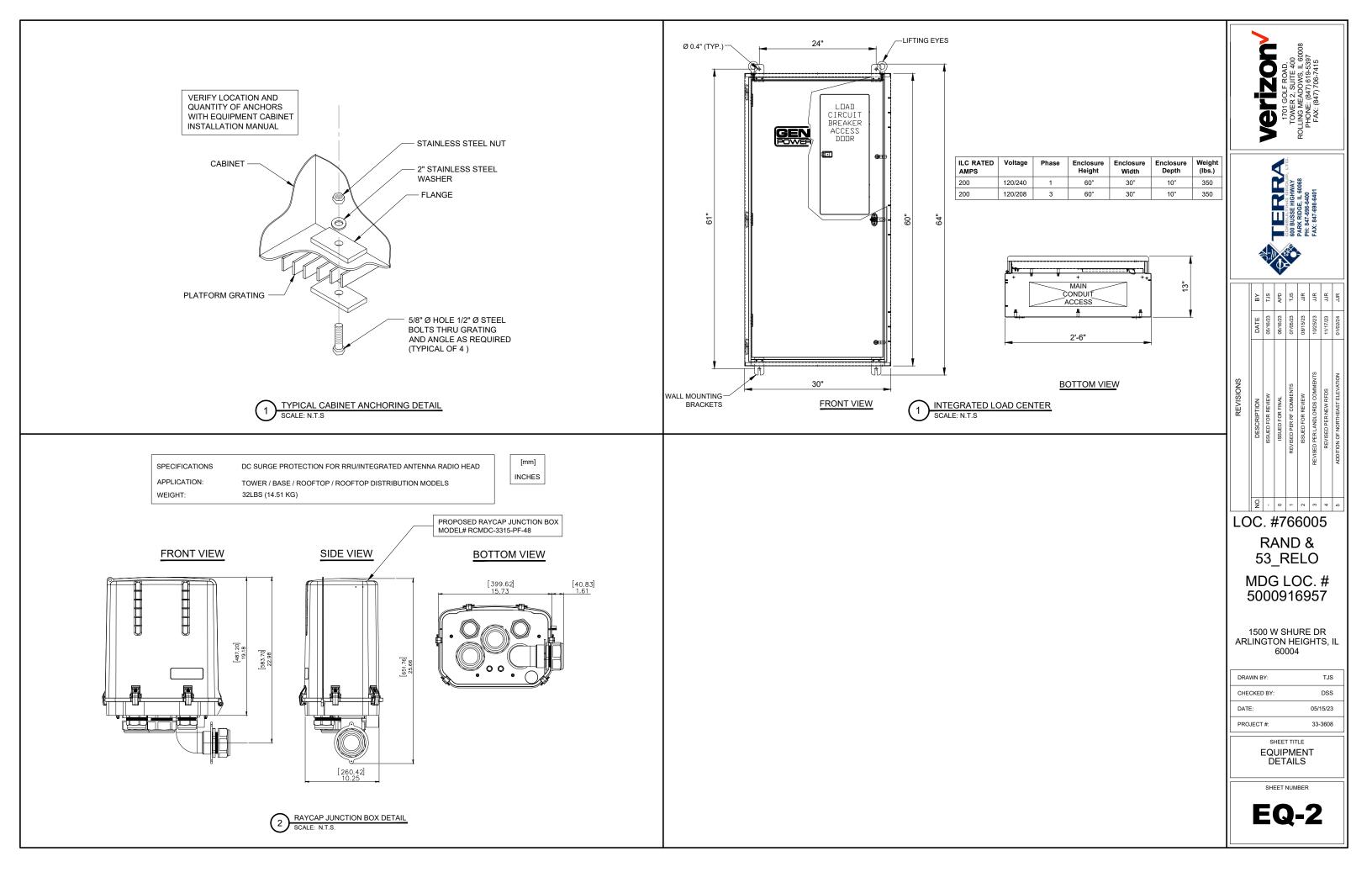


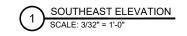


E CMC74-36E EQUIPMENT CABINET
36.2"W x 43.7"D x 6'-9"H
385LBS (EMPTY CABINET WITHOUT PLINTH,UNPACKAGED)
LBS (TYP.)
40RU 70" Horizontal (Extra 19" 9RU vertical RHS)
40RU 70" horizontal (Extra 19" 3RU vertical RHS)

COMMSCO	PE CMC74-36B BATTERY CABINET
NSIONS	36.2"W x 43.7"D x 6'-9"H
iHT	1237.5 LBS (EMPTY)
HT W/BATT	LBS (TYP.)

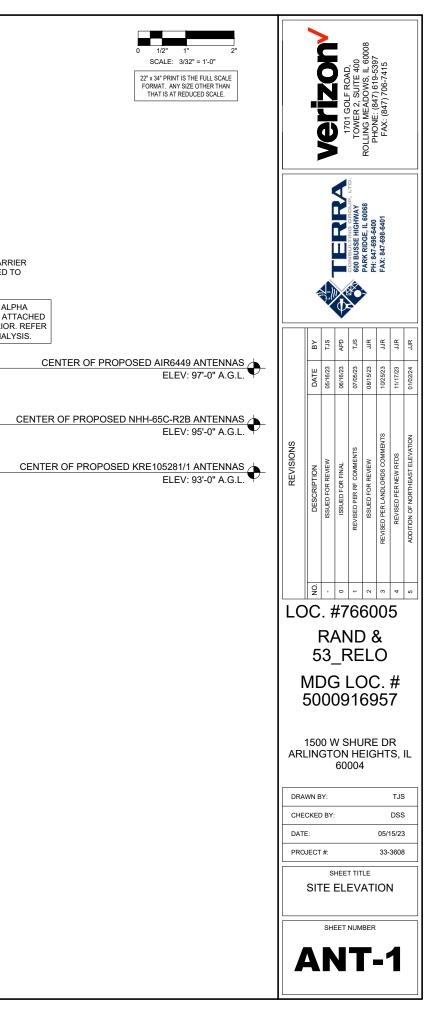


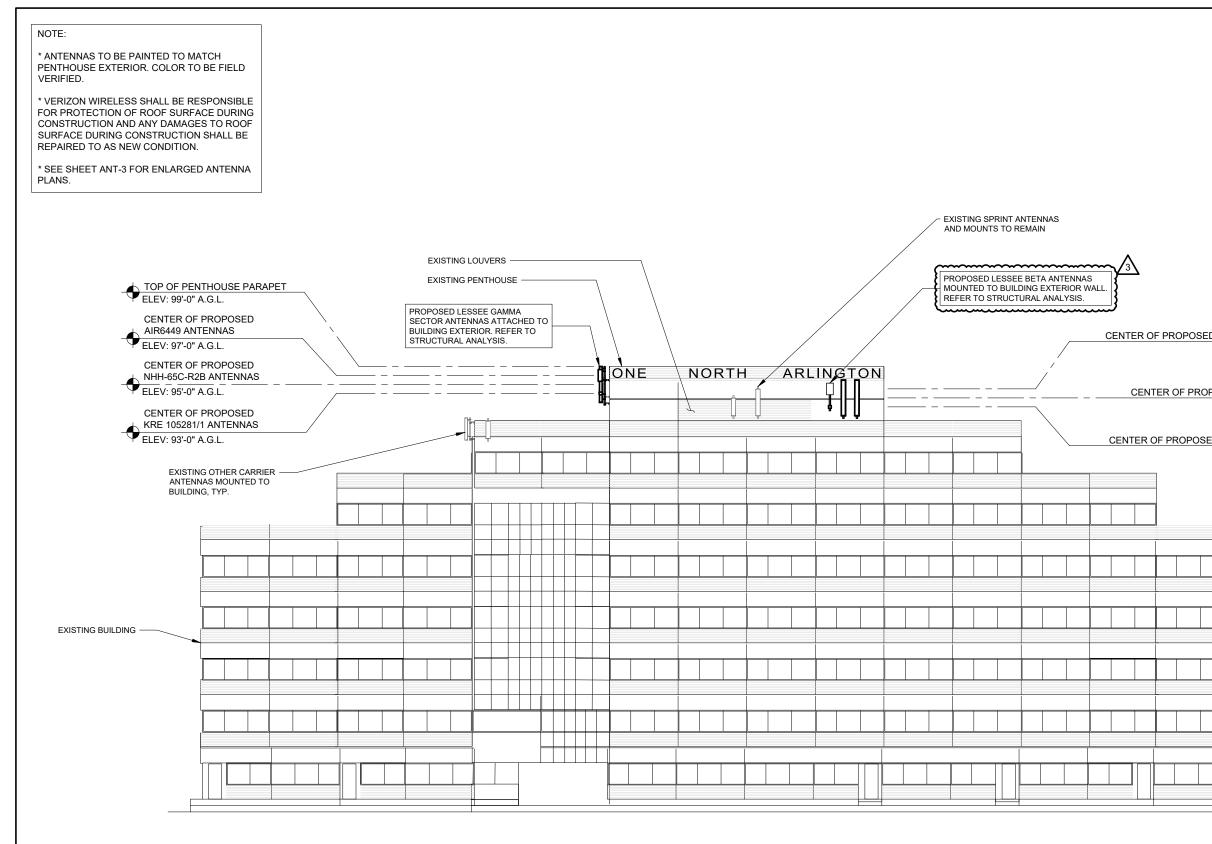




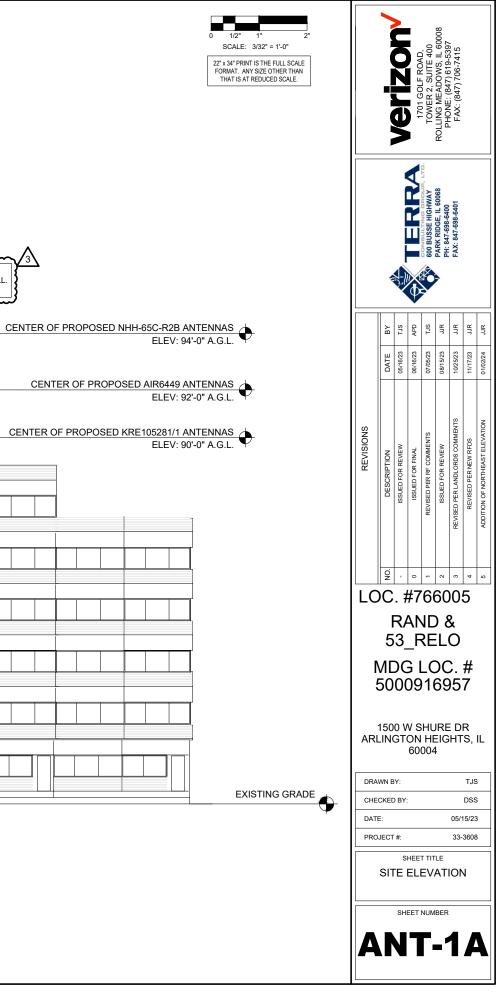
* ANTENNAS TO BE PAINTED TO MATCH PENTHOUSE EXTERIOR. COLOR TO BE FIELD VERIFIED.							
* VERIZON WIRELESS SHALL BE RESPONSIBLE FOR PROTECTION OF ROOF SURFACE DURING CONSTRUCTION AND ANY DAMAGES TO ROOF SURFACE DURING CONSTRUCTION SHALL BE REPAIRED TO AS NEW CONDITION.							
* SEE SHEET ANT-3 FOR ENLARGED ANTENNA PLANS.							
	EXISTING OTHER DISH ANTENNA						
PROPOSED LESSEE BETA SECTOR ANTENNAS ATTACHED TO BUILDING EXTERIOR. REFER TO STRUCTURAL ANALYSIS.	EXISTING PENTH	OUSE					EXISTING OTHER CAF ANTENNAS MOUNTED BUILDING PROPOSED LESSEE A
TOP OF PENTHOUSE PARAPET ELEV: 99'-0" A.G.L.							SECTOR ANTENNAS A TO BUILDING EXTERIO TO STRUCTURAL ANA
CENTER OF PROPOSED							
AIR6449 ANTENNAS ELEV: 94'-0" A.G.L. CENTER OF PROPOSED	1					 	/
•• ••<	h				н н		
CENTER OF PROPOSED	7			Ŧ	Û _		
• KRE 105281/1 ANTENNAS ELEV: 90'-0" A.G.L.							
TOP OF ROOF ELEV: 86'-0" A.G.L.							
EXISTING SPRINT ANTENNAS							
TO BE REMOVED. EXISTING MOUNTS TO BE REUSED.							
EXISTING BUILDING							
$\mathbf{\nabla}$							

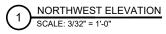
NOTE:





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





PROPOSED LESSEE ALPHA SECTOR ANTENNAS ATTACHED TO BUILDING EXTERIOR. REFER TO STRUCTURAL ANALYSIS.	EXISTING SPRINT MOUNTS
TOP OF PENTHOUSE PARAPET ELEV: 99'-0" A.G.L. CENTER OF PROPOSED AIR6449 ANTENNAS ELEV: 97'-0" A.G.L.	EXISTING OTHER CARRIER ANTENNAS MOUNTED TO BUILDING, TYP.
CENTER OF PROPOSED NHH-65C-R2B ANTENNAS ELEV: 95'-0" A.G.L. CENTER OF PROPOSED	ONE NORTH ARLINGTON
KRE 105281/1 ANTENNAS ELEV: 93'-0" A.G.L. TOP OF ROOF ELEV: 86'-0" A.G.L.	
EXISTING BUILDING	
EXISTING GRADE	

* VERIZON WIRELESS SHALL BE RESPONSIBLE FOR PROTECTION OF ROOF SURFACE DURING CONSTRUCTION AND ANY DAMAGES TO ROOF SURFACE DURING CONSTRUCTION SHALL BE REPAIRED TO AS NEW CONDITION. * SEE SHEET ANT-3 FOR ENLARGED ANTENNA PLANS.

* ANTENNAS TO BE PAINTED TO MATCH PENTHOUSE EXTERIOR. COLOR TO BE FIELD VERIFIED.

NOTE:

A		PRC	DAT		AR			_ •			REVISIONS					
	SIT	JECT		WN E		50 150	ME		⊫ž)C	Ö	DESCRIPTION	DATE	ΒY			
						0 V)(R/			ISSUED FOR REVIEW	05/16/23	TJS			
EET	HEE ELI			:	ON	vs		41	∣∘ ¥7		ISSUED FOR FINAL	06/16/23	APD	Ø	ERKA	1701 GOLE ROAD
						HL	LC		⊡ ′6।	REVI	REVISED PER RF COMMENTS	07/05/23	TJS	*	600 BUSSE HIGHWAY	TOWER 2, SUITE 400
					EIG	JRE)(_∼ 60	-	ISSUED FOR REVIEW	08/15/23	JUR	•	PARK RIDGE, IL 60068 PH: 847-698-6400	ROLLING MEADOWS, IL 60008 PHONE: (847) 610-5307
	101	33-	05/			ED).)()	REVISED	REVISED PER LANDLORDS COMMENTS	10/25/23	JJR		FAX: 847-698-6401	FAX: (847) 706-7415
	N	3608	15/23	TJS DSS		R		-	⊡ 5	RE	REVISED PER NEW RFDS	11/17/23	JJR			
3		3			IL				ŝ	ADDITION	ADDITION OF NORTHEAST ELEVATION	01/02/24	JJR			

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

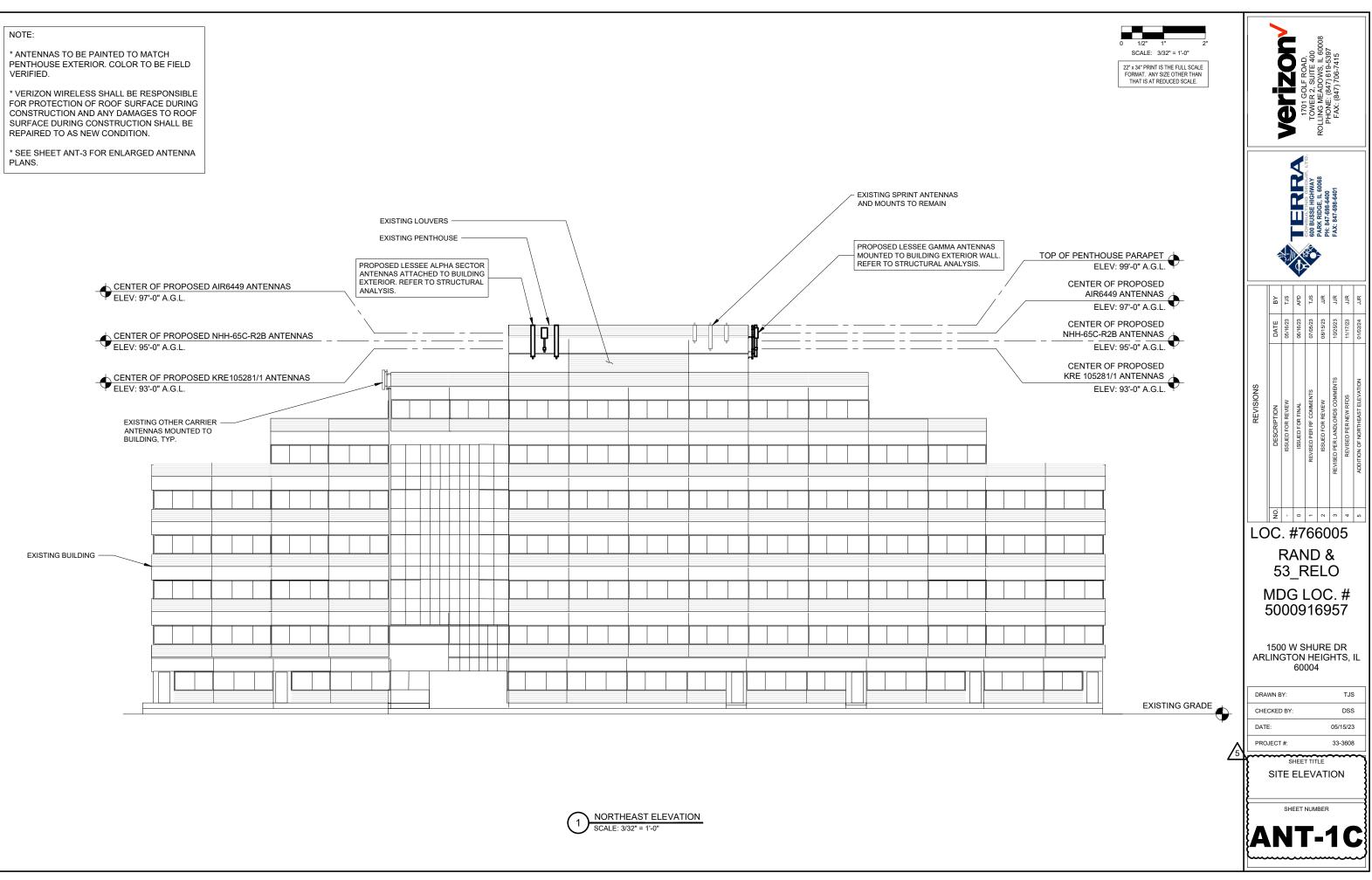
22" x 34" PRINT IS THE FULL SCALE FORMAT. ANY SIZE OTHER THAN THAT IS AT REDUCED SCALE.



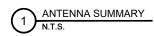
TER OF PROPOSED NHH-65C-R2B ANTENNAS ELEV: 97'-0" A.G.L.

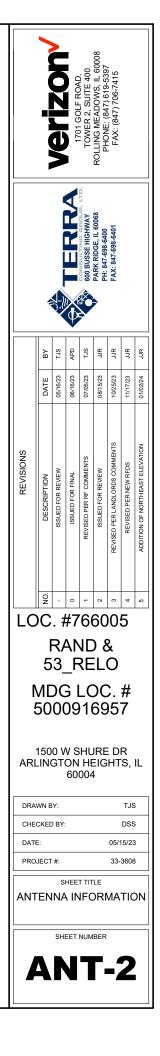
CENTER OF PROPOSED AIR6449 ANTENNAS ELEV: 95'-0" A.G.L.

ITER OF PROPOSED KRE105281/1 ANTENNAS ELEV: 93'-0" A.G.L.



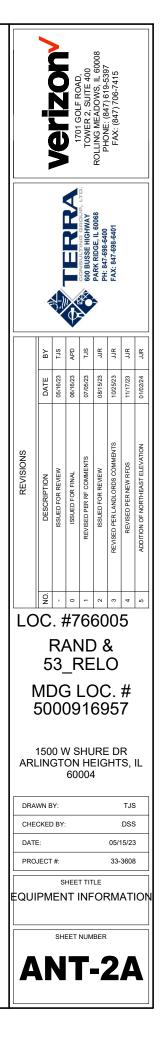
Added																
700	850	1900	AWS	CBRS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID	
LTE	LTE 5G	LTE	LTE			COMMSCOPE	NHH-65C-R2B	95	99	50(0001) 50(01)		false	PHYSICAL		00000001900056293	
LTE	LTE 5G	LTE	LTE			COMMSCOPE	NHH-65C-R2B	96	100	190(0002) 190(02) 310(0003) 310(03)		false	PHYSICAL	4	00000001900056293	
				LTE		ERICSSON INC	KRE105281/1	93	93.3	50(19)		false	PHYSICAL	1	1900055217	
				LTE		ERICSSON INC	KRE105281/1	94	94.3	190(20) 310(21)		false	PHYSICAL	2	1900055217	
					5G	ERICSSON INC	KRD901206/11	97	98.3	50(0001)		false	PHYSICAL	1	1900068484	
					5G	ERICSSON INC	KRD901206/11	98	99.3	190(0002) 310(0003)		false	PHYSICAL	2	1900068484	
Remove	d															
700		1900	AWS	CBRS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID	
				00110	1 0000			Conteninie				10114	mon rype	auditury		
									No	lata available.						
Retaine	4															
700		1900	AWS	CBRS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID	
									No.	lata available.						
								Added: 12								
								Added: 12	nen	noved: 0	Re	etained: 0				
								Added: 12	i ci	noved: 0	Re	etained: 0				
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								Adued: 12		oved: 0	Re	ttained: 0				
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								A0006: 12		oved: 0	Re	ttained: 0				
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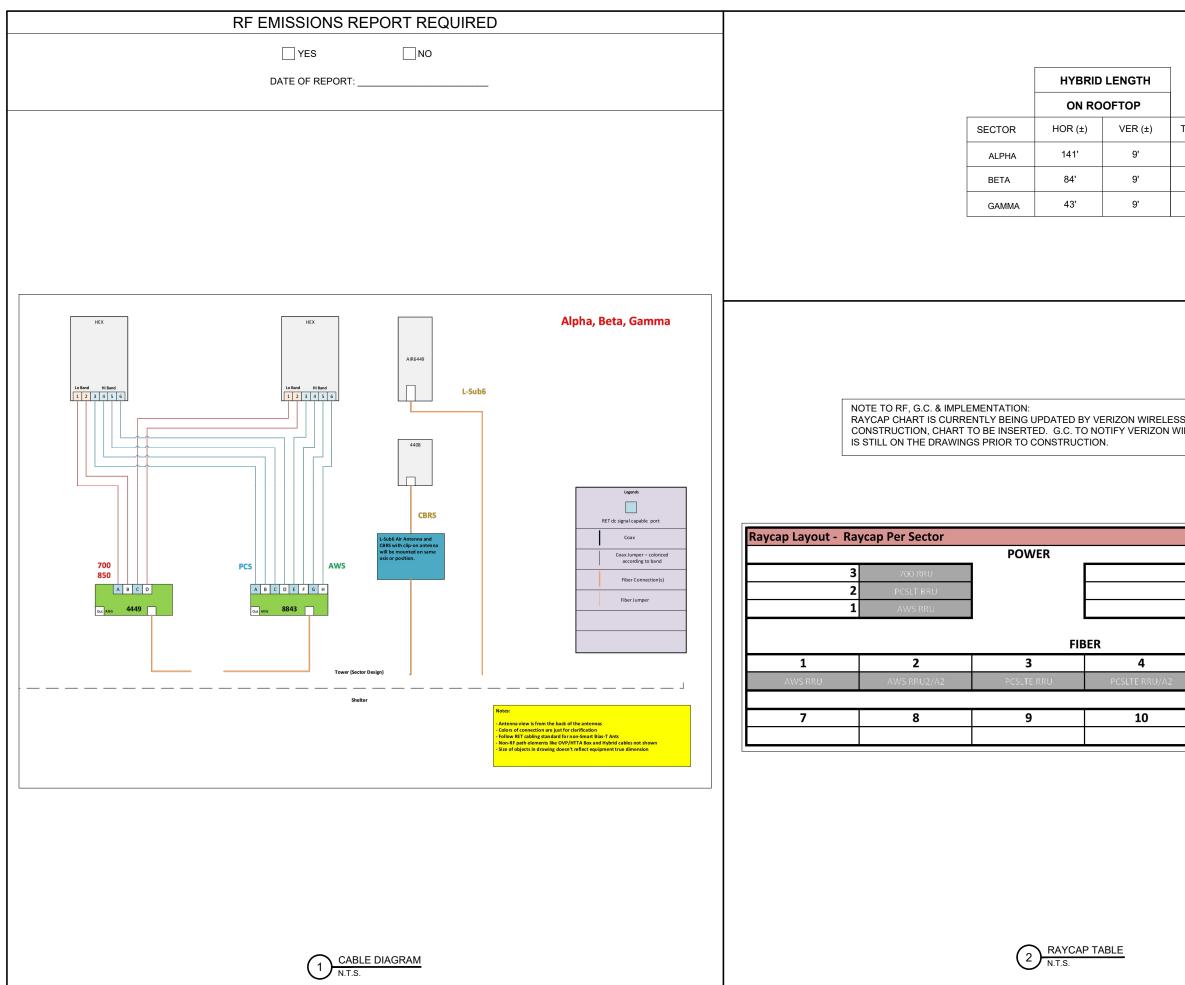




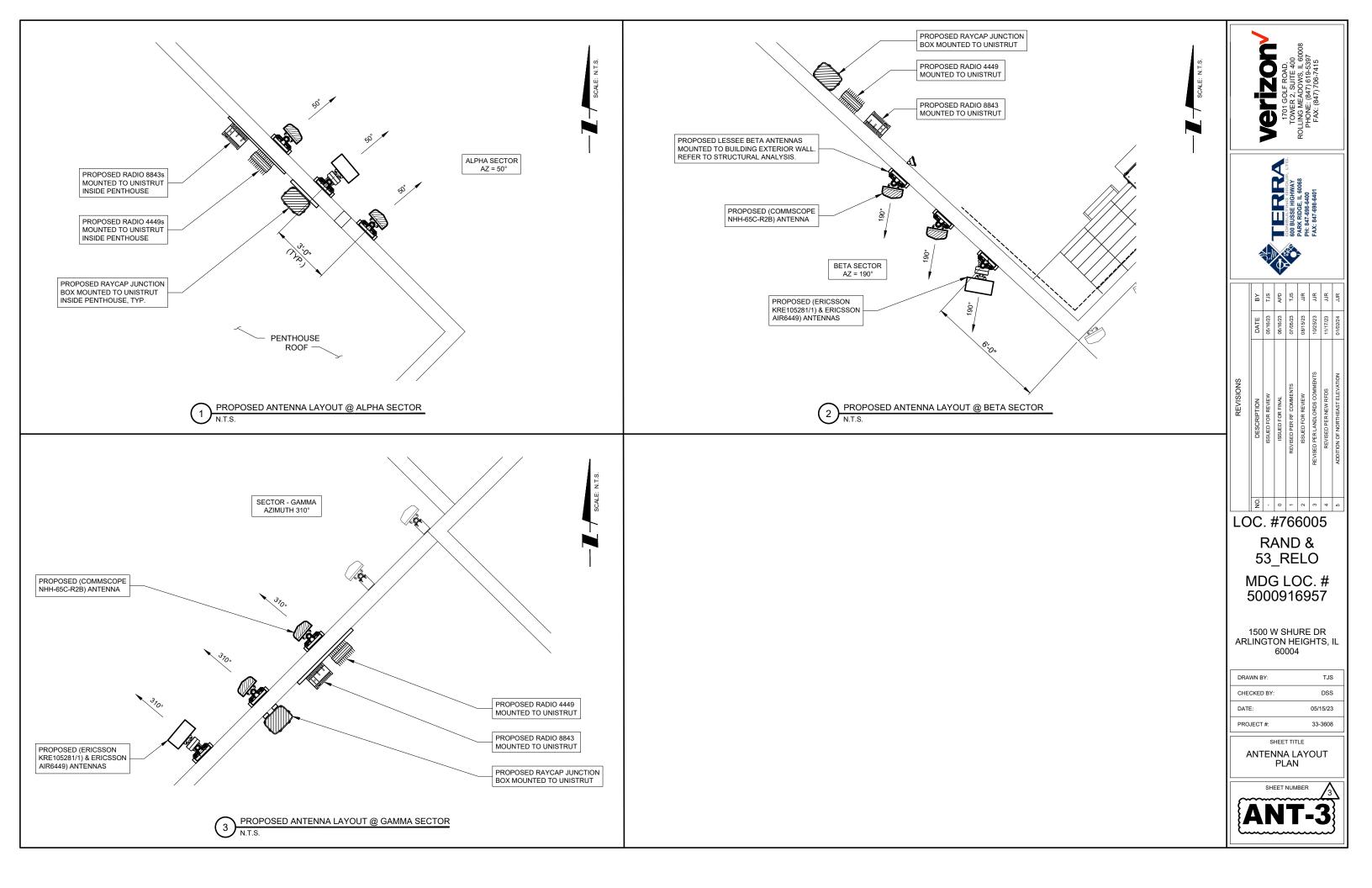


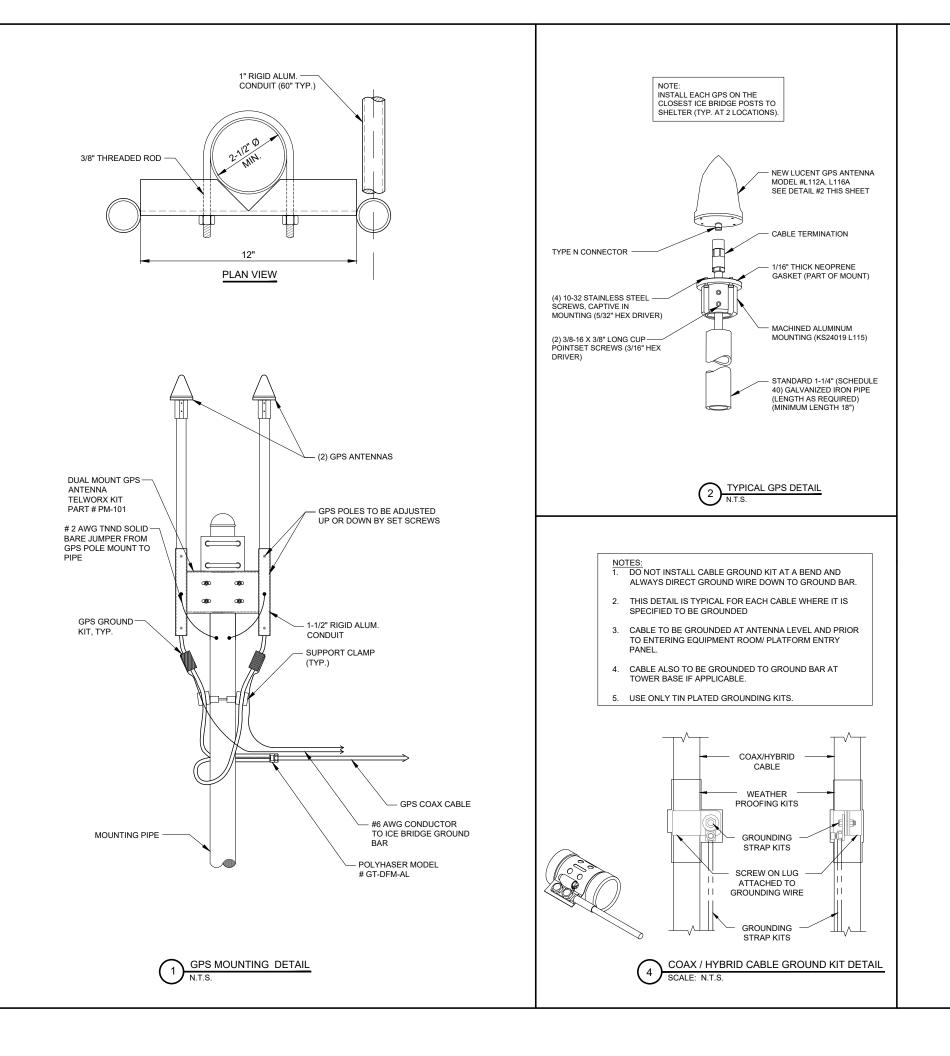
									Equipment	Summary					
Added															
Equipment Type	Location	700	850	1900	AWS	CBRS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID	
RRU	Tower	LTE	LTE 5G					ERICSSON INC	KRC161749/1			PHYSICAL	3	1900068756	
RRU	Tower						5G	ERICSSON INC	KRD901206/11			PHYSICAL	3	1900068484	
RRU	Tower					LTE		ERICSSON INC	KRC161746/1			PHYSICAL		1900068745	
RRU	Tower			LTE	LTE			ERICSSON INC	KRC161707/2			PHYSICAL	3	1900068904	
Power Plants	Ground (Outdoor)							ABB	109163473			PHYSICAL	6	00000001900436	
Power Plants	Ground (Outdoor)							COMMSCOPE	760237263			PHYSICAL	2	00000001900063	
Shelter/Cabinets	Ground (Outdoor)							CHARLES INDUSTRIES LTD	760250058			PHYSICAL	1	1900393048	
Shelter/Cabinets	Ground (Outdoor)							COMMSCOPE	760250933			PHYSICAL	2	00000001900063	
Power Plants	Ground (Outdoor)							ABB POWER ELECTRONICS INCDBA GE ENERGY	760242451			PHYSICAL	1	1900452342	
Power Plants	Ground (Outdoor)							ABB POWER ELECTRONICS INCDBA GE ENERGY	760242451			PHYSICAL	1	1900073751	
Power Plants	Ground (Outdoor)							ABB POWER ELECTRONICS INCDBA GE ENERGY	760242451			PHYSICAL	2	1900153743	
Power Plants	Ground (Outdoor)							ABB POWER ELECTRONICS INCDBA GE ENERGY	760242451			PHYSICAL	1	1900153449	
Power Plants	Ground (Outdoor)							ABB POWER ELECTRONICS INCDBA GE ENERGY	760242451			PHYSICAL	1	1900153751	
Alarm	Ground (Outdoor)							ASENTRIA	1900070746			PHYSICAL	1	1900070746	
Alarm	Ground (Outdoor)							ASENTRIA	1900076600			PHYSICAL	1	1900076600	
Alarm	Ground (Outdoor)							ASENTRIA	1900076812			PHYSICAL	1	1900076812	
Alarm	Tower							RAYCAPINC-001	3315-ALM-RS485			PHYSICAL	3	00000001900070	
Alarm	Ground (Outdoor)							ASENTRIA	S3406CRANCAB1			PHYSICAL	1	00000001900077	
BBU	Ground (Outdoor)							Ericsson	KDU1370015/11			PHYSICAL	1	00000001900081	
BBU	Ground (Outdoor)							Ericsson	KDU137848/11			PHYSICAL	1	00000001900185	
Battery	Ground							COMMSCOPE	760250540			PHYSICAL	1	00000001900064	
Cell Site	(Outdoor) Ground							NOKIAOFAME-	3HE15386AA			PHYSICAL		00000001900182	
Routers	(Outdoor)							001 COMMSCOPET-							
Hybrid Cable	Tower							001	HFT1206-24SV4-xxxG			PHYSICAL			
OVP Box	(Outdoor)							RAYCAP	1900410978			PHYSICAL	2	1900410978	
OVP Box	Shelter							RAYCAP	3315-ALM-RS485			PHYSICAL	3	00000001900070	
OVP Box	Tower							RAYCAPINC-001	RVZDC-3315-PF-48		1-5/8 inch	PHYSICAL	3	00000001900422	
OVP Box	Ground (Outdoor)							RAYCAP	RVZDC-4520-RM-48			PHYSICAL	2	00000001900410	
Other	Ground (Outdoor)							COMMSCOPE	760246443			PHYSICAL	1	00000001900005	
Upconverter	Ground (Outdoor)							JOHNMEZZAL- 002	PB-PSU-COV-BB			PHYSICAL	2	00000001900400	
Shelter/Cabinets	Ground (Outdoor)							COMMSCOPE	SK-BSP-STDV-FIU			PHYSICAL	4	00000001900078	
Upconverter	Ground (Outdoor)							JOHNMEZZAL- 002	PB-19-SYS-16-BB			PHYSICAL	1	00000001900400	
Upconverter	Ground (Outdoor)							JOHNMEZZAL- 002	PB-PSU-162-BB			PHYSICAL	6	00000001900400	
Removed	Location	700	850	1900	AWS	CBRS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID	
Removed Equipment Type												•••			
	Location								No data av	ailable.					
	Locution								No data av	ailable.					

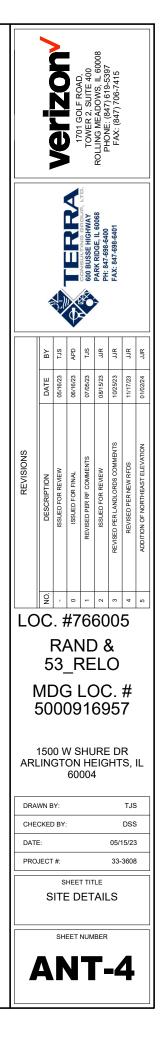


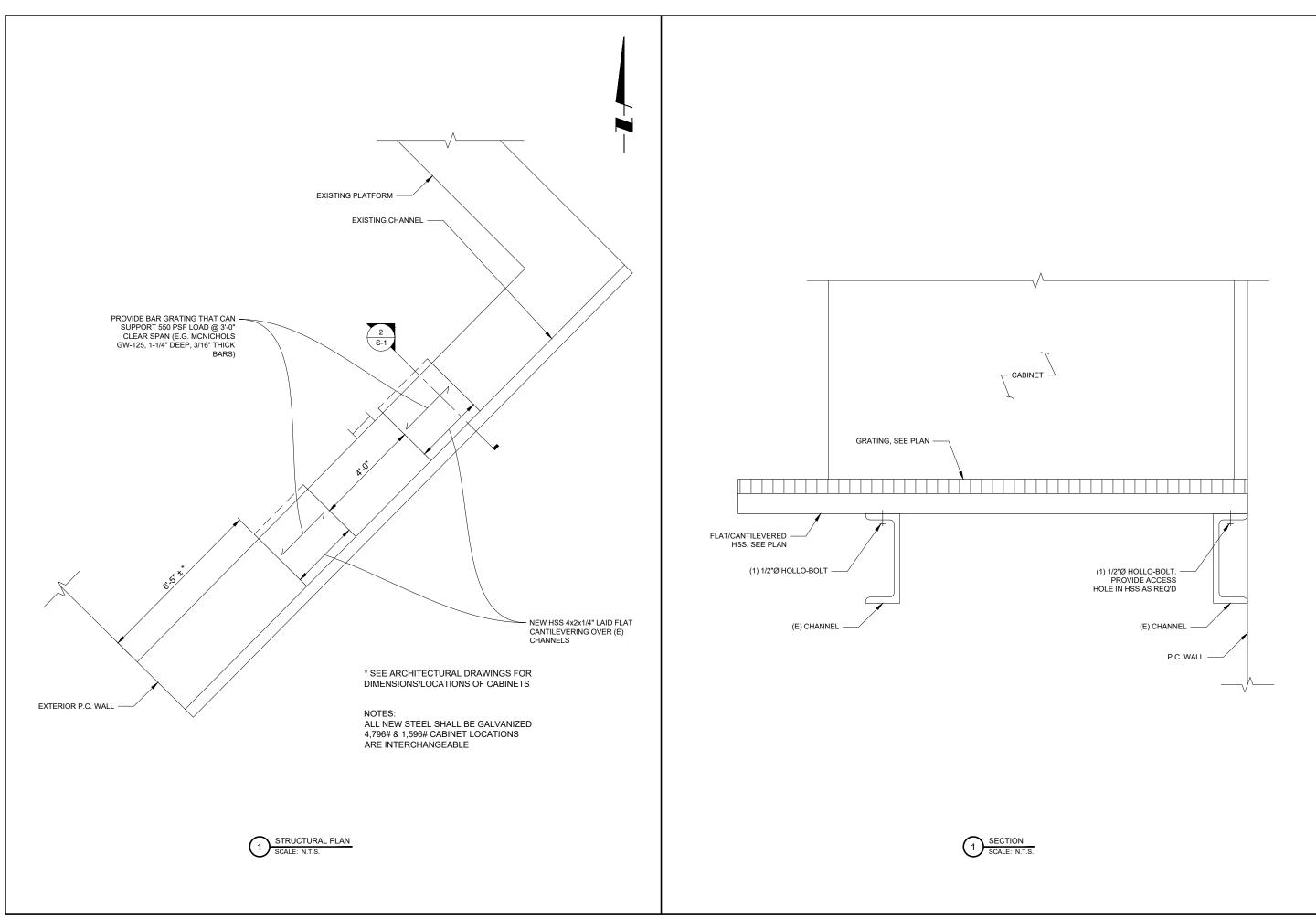


TOTAL (±) 150'	TOWER 2, SUITE 400 ROLINIG MADOWS, IL 60008 ROLINIG (847) 706-7415 FAX: (847) 706-7415
93' 52'	EXAMPLE THE REAL FOR THE STATE OF THE STATE
	BY TJS APD APD APD APD JJR JJR
	DATE 05/16/23 05/16/23 05/16/23 07/05/23 07/05/23 10/25/23 10/25/23 10/25/23 01/17/23 07/02/24 07/02/24
SS. PRIOR TO FINAL AND VIRELESS IF THIS NOTE	REVISIONS DESCRIPTION DESCRIPTION ISSUED FOR REVIEW ISSUED FOR REVIEW ISSUED FOR REVIEW REVISED PER NEW REVS REVISED PER NEW REPS ADDITION OF NORTHEAST ELEVATION
6 700 RRU2/A2 5 PCSLT RBU2/A2	0 · 0 · 8 · 8 · 9
4 AWS RRU2/A2 5 6 700 RRU 700 RRU/A2 11 12	LOC. #766005 RAND & 53_RELO MDG LOC. # 5000916957 1500 W SHURE DR ARLINGTON HEIGHTS, IL 60004 DRAWN BY: TJS CHECKED BY: DSS DATE: 05/15/23 PROJECT #: 33-3608 SHEET TITLE
	ANTENNA INFORMATION SHEET NUMBER ANT-2B

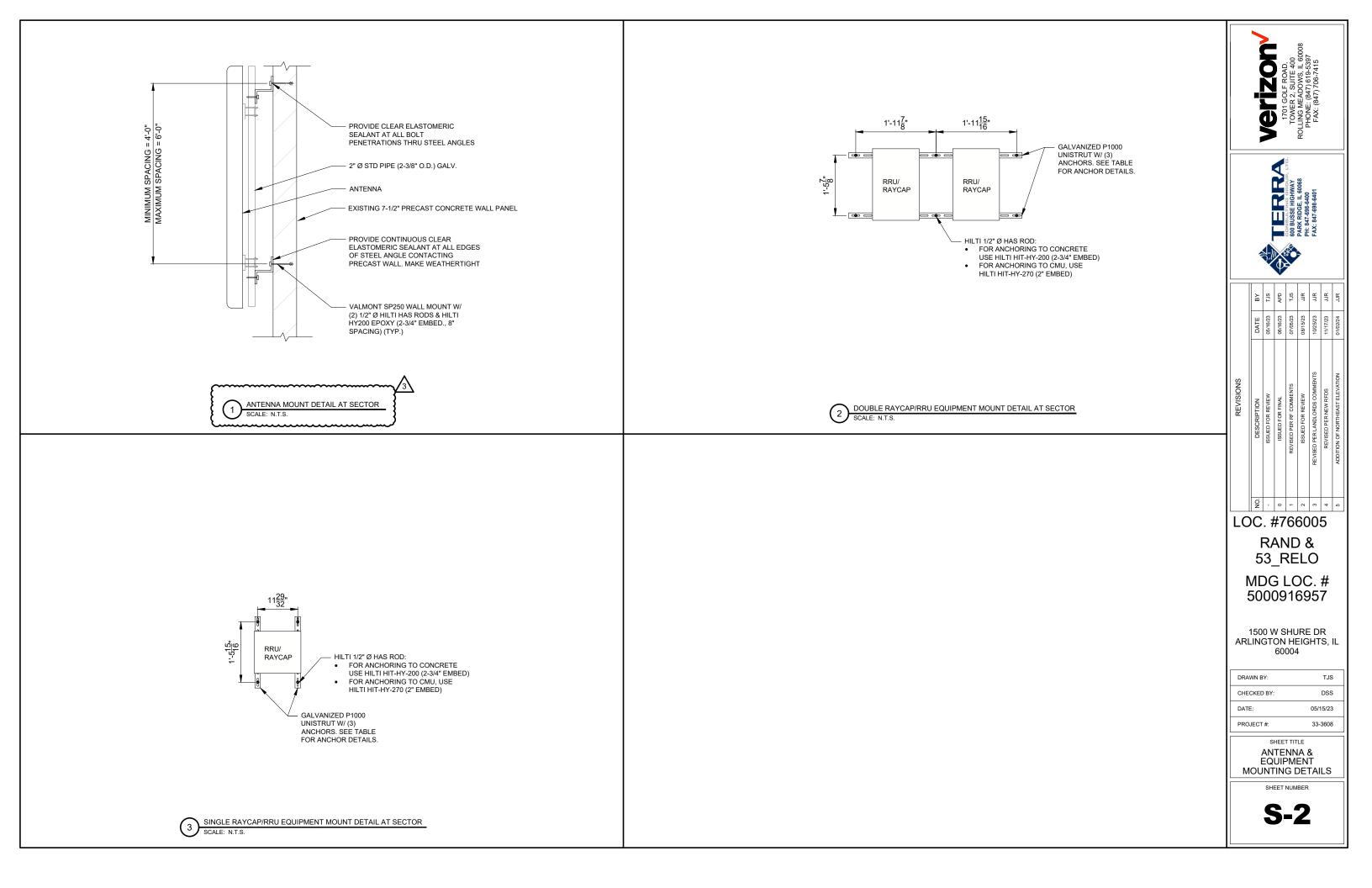


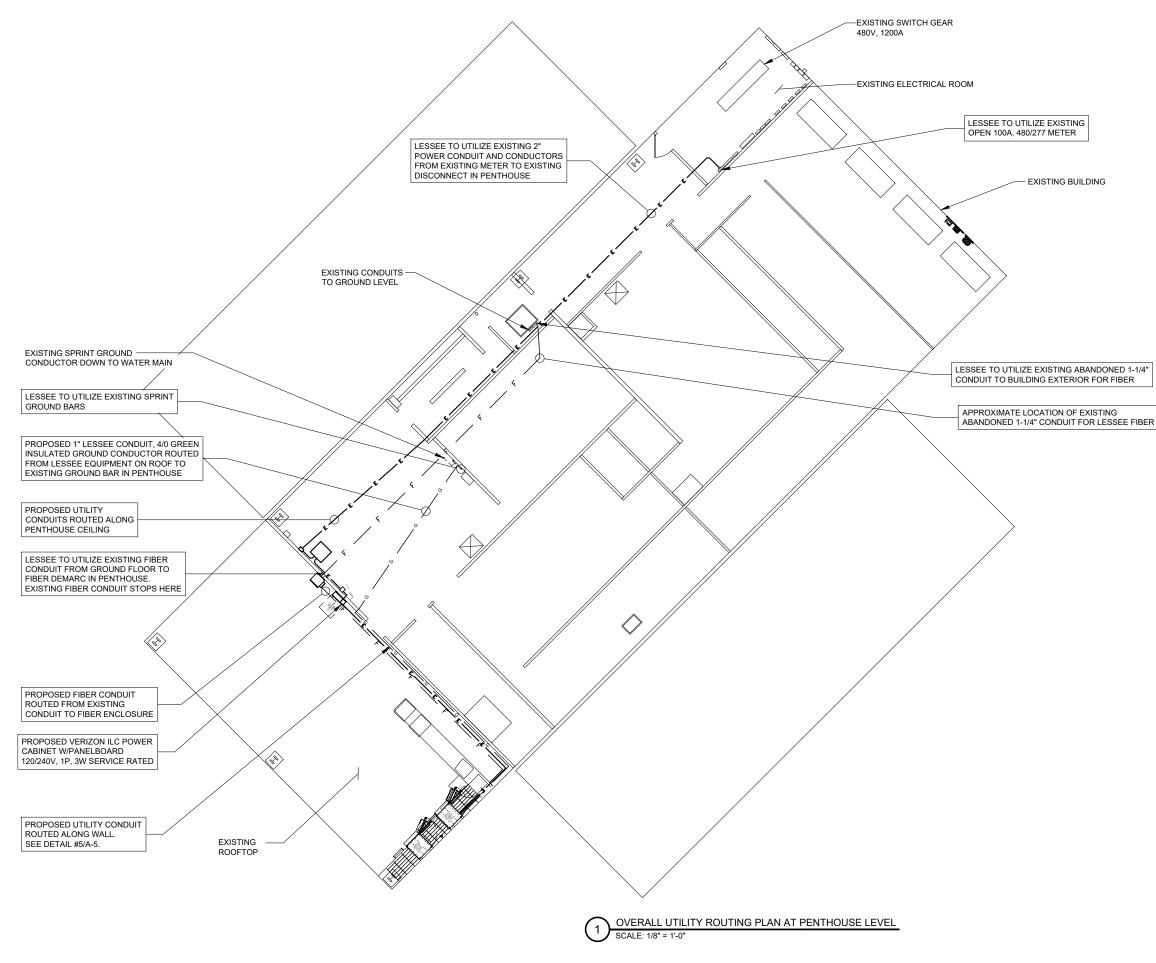






				TOWER 2, SUITE 400	ROLLING MEADOWS, IL 60008	FAX: (847) 706-7415						
	¢			600 BUSSE HIGHWAY	PARK RIDGE, IL 60068 PH: 847-698-6400	FAX: 847-698-6401						
	BY	SLT	APD	TJS	JUR	JJR	JJR	JJR				
	DATE	05/16/23	06/16/23	07/05/23	08/15/23	10/25/23	11/17/23	01/02/24				
REVISIONS	DESCRIPTION	ISSUED FOR REVIEW	ISSUED FOR FINAL	REVISED PER RF COMMENTS	ISSUED FOR REVIEW	REVISED PER LANDLORDS COMMENTS	REVISED PER NEW RFDS	ADDITION OF NORTHEAST ELEVATION				
<u>Ň</u> · O + N W 4 N												
į	5 VIE 50	R/ 3 <u>-</u> 0(0)	99 v s on	RE LC)1(3 0 2. 95	7 R	IL				
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DATI	CKEE) BY	:			05/	DSS 15/23					
	JECT TR A	s UC	HEE TL DD	JR/	۱ L	PL/	3608 AN	3				
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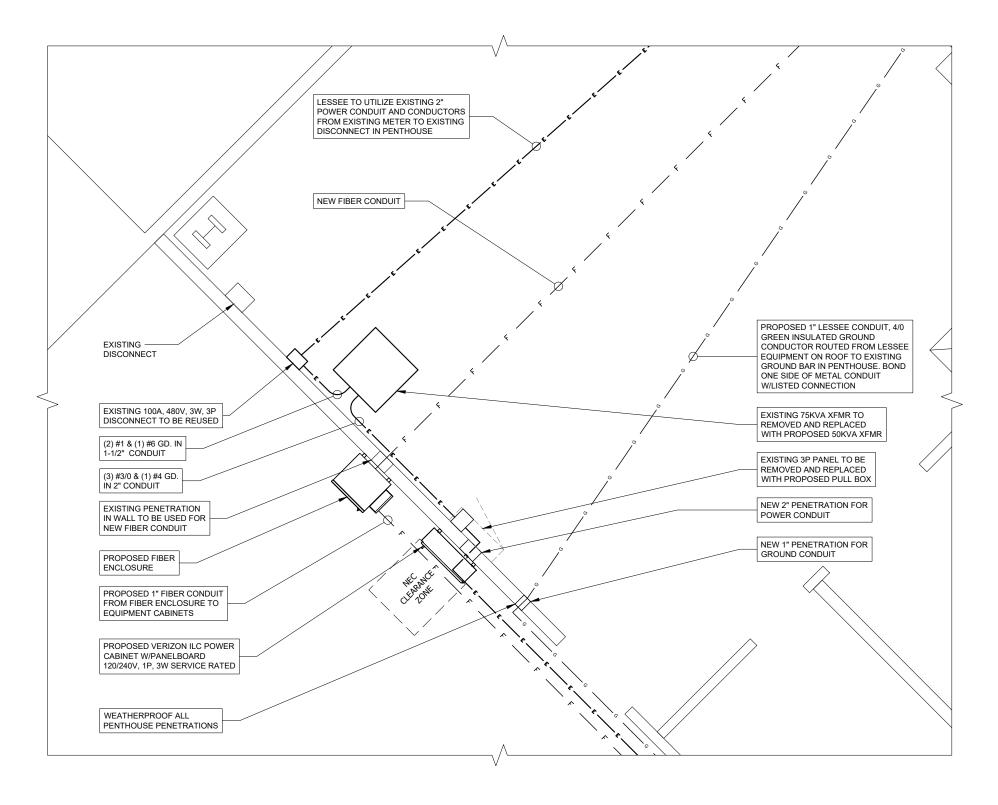




				TOWER 2, SUITE 400	ROLLING MEADOWS, IL 60008	FAX: (847) 706-7415		
	¢			600 BUSSE HIGHWAY	PARK RIDGE, IL 60068 PH: 847-698-6400	FAX: 847-698-6401		
	ВΥ	TJS	APD	TJS	JUR	JJR	JJR	8
	DATE	05/16/23	06/16/23	07/05/23	08/15/23	10/25/23	11/17/23	01/02/24
REVISIONS	DESCRIPTION	ISSUED FOR REVIEW	ISSUED FOR FINAL	REVISED PER RF COMMENTS	ISSUED FOR REVIEW	REVISED PER LANDLORDS COMMENTS	REVISED PER NEW RFDS	ADDITION OF NORTHEAST FI EVATION
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ARI	150 _IN(0 V GT	ON	HL HE	EIG	E D HT	R S,	IL
DRA CHE			:				TJS DSS	
DATE						05/1	15/23	
PRO	JECT	#:				33-	3608	3
	OV R	ER OU	AL	١G	JTI PL	AN.		
	~	SH				~	<u>/</u> 3	7

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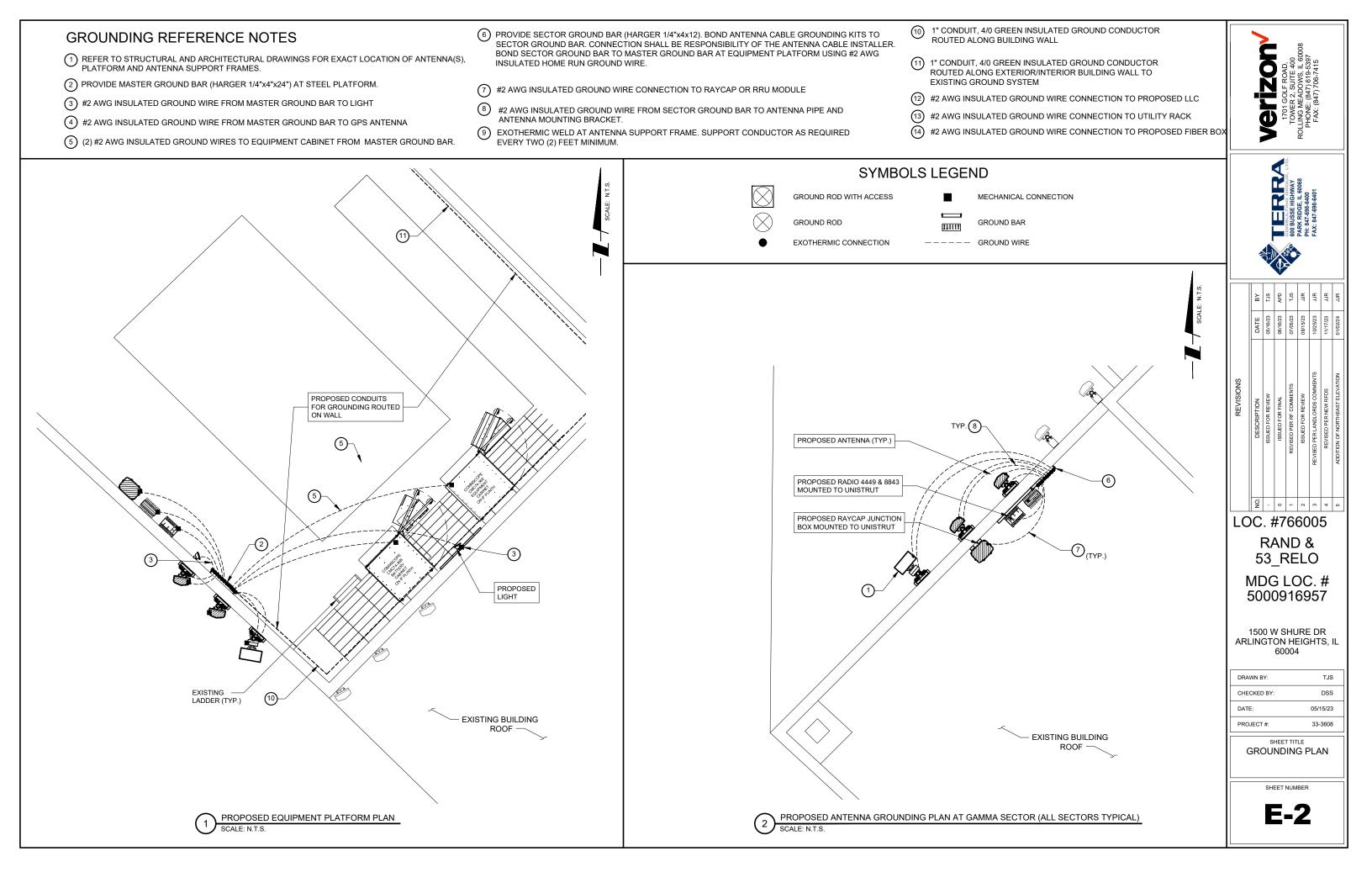
NOTE: CONTRACTOR TO FIREPROOF ALL PENETRATIONS. SEE DETAILS ON SHEET A-5

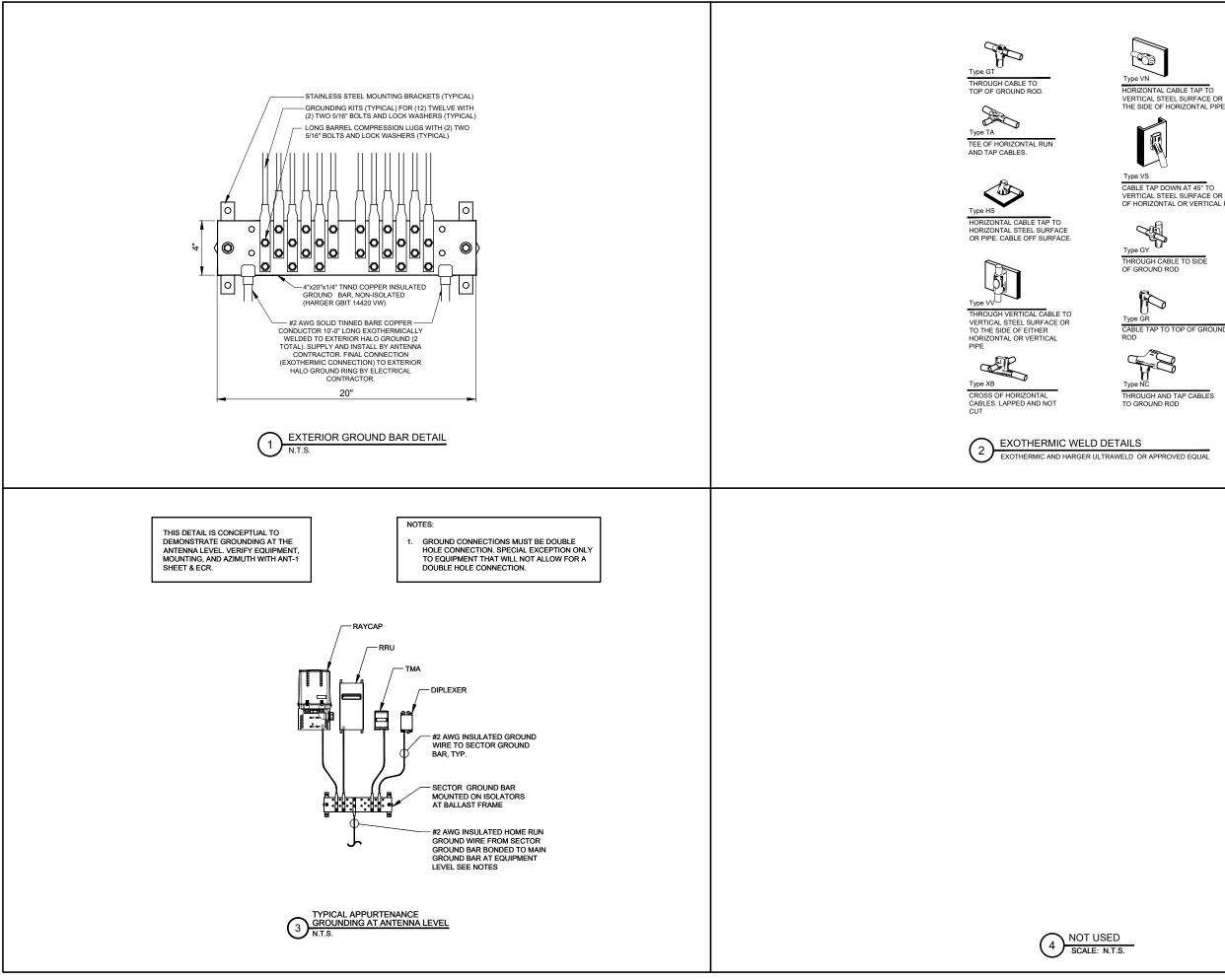


1 PARTIAL UTILITY ROUTING PLAN AT PENTHOUSE LEVEL SCALE: 1/2" = 1'-0"

				TOWER 2, SUITE 400	ROLLING MEADOWS, IL 60008 PHONE: (847) 640-5307	FAX: (847) 706-7415						
	4			600 BUSSE HIGHWAY	PARK RIDGE, IL 60068 PH: 847-698-6400	FAX: 847-698-6401						
	BY	TJS	APD	TJS	JIR	JJR	JJR	JJR				
	DATE	05/16/23	06/16/23	07/05/23	08/15/23	10/25/23	11/17/23	01/02/24				
REVISIONS	DESCRIPTION	ISSUED FOR REVIEW	ISSUED FOR FINAL	REVISED PER RF COMMENTS	ISSUED FOR REVIEW	REVISED PER LANDLORDS COMMENTS	REVISED PER NEW RFDS	ADDITION OF NORTHEAST ELEVATION				
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NOTE: CONTRACTOR TO FIREPROOF ALL PENETRATIONS. SEE DETAILS ON SHEET A-5



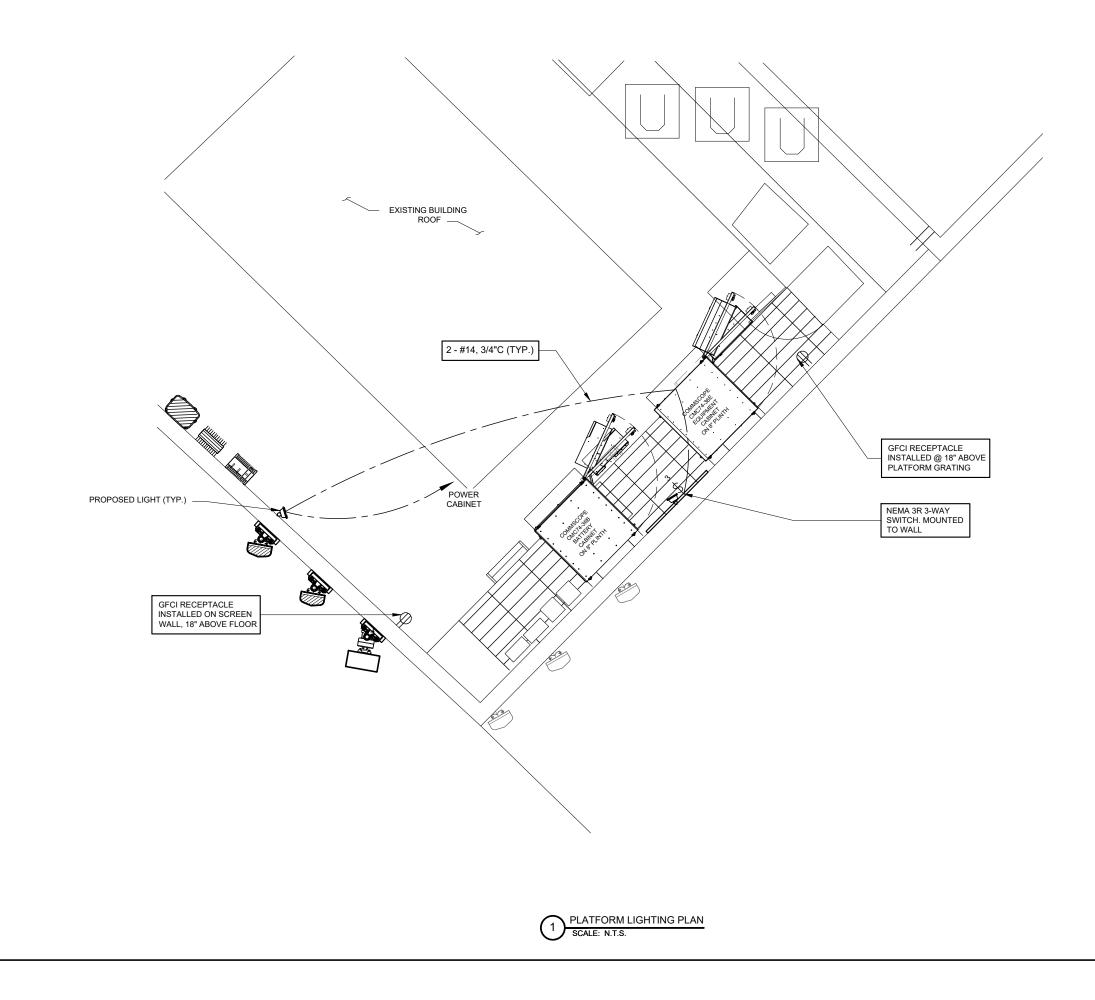


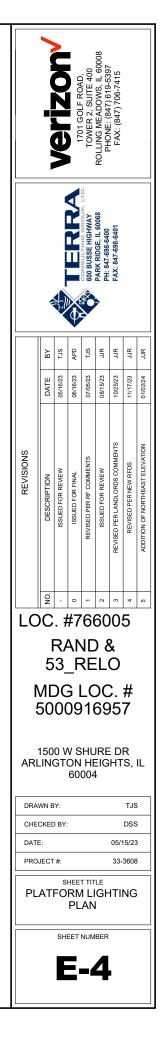
				TOWER 2, SUITE 400	ROLLING MEADOWS, IL 60008	FAX: (847) 706-7415			
	4			600 BUSSE HIGHWAY	PARK RIDGE, IL 60068 PH: 847-698.6400	FAX: 847-698-6401			
	BΥ	TJS	APD	TJS	JUR	JJR	JJR	JJR	
	DATE	05/16/23	06/16/23	07/05/23	08/15/23	10/25/23	11/17/23	01/02/24	
REVISIONS	DESCRIPTION	ISSUED FOR REVIEW	ISSUED FOR FINAL	REVISED PER RF COMMENTS	ISSUED FOR REVIEW	REVISED PER LANDLORDS COMMENTS	REVISED PER NEW RFDS	ADDITION OF NORTHEAST ELEVATION	
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PRO		F#:					3608		
SHEET TITLE ELECTRICAL & GROUNDING DETAILS									
				NUM					
1									

CABLE TAP DOWN AT 45° TO VERTICAL STEEL SURFACE OR SIDE OF HORIZONTAL OR VERTICAL PIPE.

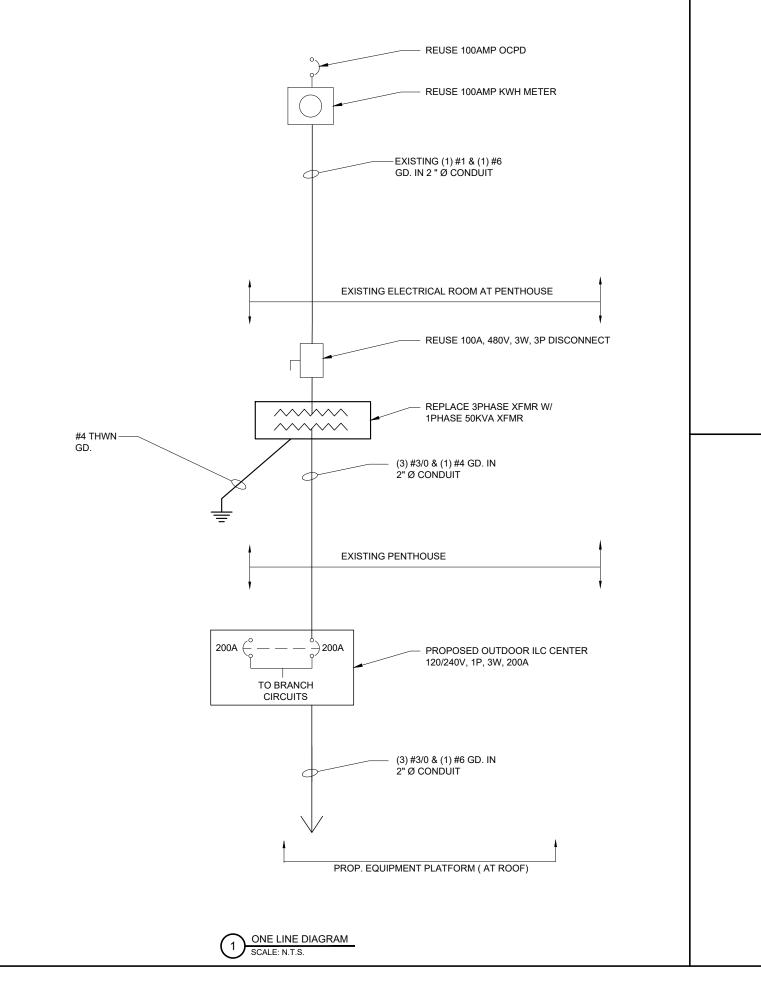
CABLE TAP TO TOP OF GROUND

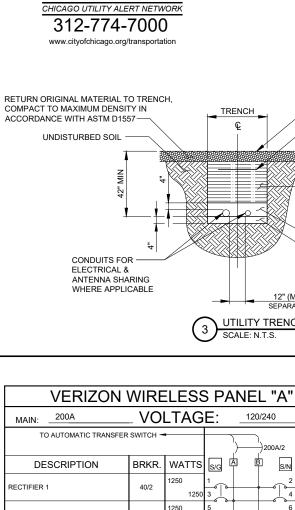
THROUGH AND TAP CABLES



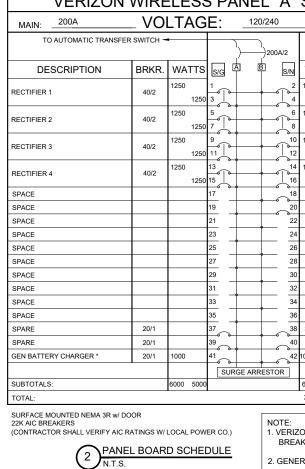


SCALE: N.T.S.





DIGGER



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	1			I PLACE OF COMPACTED SAND.			- 7	6	Ş	400	, IL 6(415		
	2	. в		DUITS 42" BELOW GRADE OR 6" OST LINE, WHICHEVER IS				N		TOWER 2, SUITE 400	LING MEADOWS, IL 60	FAX: (847) 706-7415		
	3	. S	EPARATIC	IZE, TYPE, QUANTITY AND N DIMENSION TO BE VERIFIED L UTILITY COMPANY ENTS					1204	TOWER	PHONE: (847) 640-5307	FAX: (8		
	_	Al C(ND BASE	SURFACE COARSE MATERIAL COARSE TO ORIGINAL I AFTER INSTALLATION OF GRADE SURFACE TO LEVEL.						GROUP, LTD. HWAY	L 60068	401		
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THE CONSTRUCTION DOCUMENT DRAWINGS ARE INTERRELATED. WHEN PERFORMING THE WORK, EACH CONTRACTOR MUST REFER TO ALL DRAWINGS. COORDINATION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

DIVISION 1: GENERAL REQUIREMENTS

SECTION 01700 - PROJECT CLOSEOUT

- PART 1 GENERAL
- A. OBTAIN AND SUBMIT RELEASES ENABLING THE OWNER UNRESTRICTED USE OF THE WORK AND ACCESS TO SERVICES AND UTILITIES; INCLUDE OCCUPANCY PERMITS. OPERATING CERTIFICATES AND SIMILAR RELEASES
- B. SUBMIT RECORD DRAWINGS, DAMAGE OR SETTLEMENT SURVEY, PROPERTY SURVEY, AND SIMILAR FINAL RECORD INFORMATION.
- C. COMPLETE FINAL CLEAN UP REQUIREMENTS. TOUCH UP AND OTHERWISE REPAIR AND RESTORE MARRED EXPOSED FINISHES.

PART 2 - FINAL CLEANING

- 1. COMPLETE THE FOLLOWING CLEANING OPERATIONS BEFORE REQUESTING INSPECTION FOR CERTIFICATION OF COMPLETION
- a. CLEAN THE PROJECT SITE, YARD AND GROUNDS, IN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, INCLUDING LANDSCAPE DEVELOPMENT AREAS, OF RUBBISH, WASTE MATERIALS, LITTER AND FOREIGN SUBSTANCES. SWEEP PAVED AREAS BROOM CLEAN. REMOVE PETRO-CHEMICAL SPILLS STAINS AND OTHER FOREIGN DEPOSITS RAKE GROUNDS THAT ARE NEITHER PLANTED NOR PAVED, TO A SMOOTH EVEN-TEXTURED SURFACE
- b. REMOVE TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY AND SURPLUS MATERIAL FROM THE SITE
- c. REMOVE SNOW AND ICE TO PROVIDE SAFE ACCESS TO THE SITE AND EQUIPMENT ENCLOSURE.
- d. CLEAN EXPOSED EXTERIOR AND INTERIOR HARD-SURFACED FINISHES TO A DIRT-FREE CONDITION FREE OF STAINS FILMS AND SIMILAR FOREIGN SUBSTANCES. AVOID DISTURBING NATURAL WEATHERING OF EXTERIOR SURFACES.
- e. REMOVE DEBRIS FROM LIMITED ACCESS SPACES, INCLUDING ROOFS, EQUIPMENT ENCLOSURE, MANHOLES, AND SIMILAR SPACES
- f. TOUCH-UP AND OTHERWISE REPAIR AND RESTORE MARRED EXPOSED INISHES AND SURFACES. REPLACE FINISHES AND SURFACES THAT CAN NOT BE SATISFACTORILY REPAIRED OR RESTORED, OR THAT SHOW EVIDENCE OF REPAIR OR RESTORATION. DO NOT PAINT OVER "UL" AND SIMILAR LABELS. INCLUDING ELECTRICAL NAME PLATES.
- g. LEAVE THE PROJECT CLEAN AND READY FOR OCCUPANCY
- 2. REMOVAL OF PROTECTION: REMOVE TEMPORARY PROTECTION AND FACILITIES INSTALLED DURING CONSTRUCTION TO PROTECT PREVIOUSLY COMPLETED INSTALLATIONS DURING THE REMAINDER OF THE CONSTRUCTION PERIOD. **DIVISION 2: SITE WORK**

SECTION 02200 - EARTHWORK AND DRAINAGE

PART 1 - GENERAL

- 1. WORK INCLUDED: SEE SITE PLAN.
- 2. SEQUENCING
- a. CONSTRUCT TEMPORARY CONSTRUCTION AREA ALONG EAST FENCE LINE
- b. GRADE, SEED, FERTILIZE, AND MULCH ALL AREAS DISTURBED BY CONSTRUCTION (INCLUDING UNDERGROUND UTILITY EASEMENTS) IMMEDIATELY AFTER BRINGING LEASE AREA AND ACCESS DRIVE W TURNAROUND TO BASE COURSE ELEVATION, WATER TO ENSURE GROWTH

PART 2 - EXECUTION

1. INSPECTIONS: LOCAL BUILDING INSPECTORS SHALL BE NOTIFIED NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS, UNLESS OTHERWISE SPECIFIED BY JURISDICTION

2. PREPARATION

- a. CLEAR TREES, BRUSH AND DEBRIS FROM SITE AS REQUIRED.
- b. PRIOR TO OTHER EXCAVATION AND CONSTRUCTION, GRUB ORGANIC MATERIAL TO A MINIMUM OF SIX INCHES (6") BELOW GRADE.
- C. UNLESS OTHERWISE INSTRUCTED BY OWNER, TRANSPORT ALL REMOVED TREES, BRUSH AND DEBRIS FROM THE PROPERTY TO AN AUTHORIZED
- d. PRIOR TO PLACEMENT OF FILL OR BASE MATERIALS. ROLL THE SOIL
- e. WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED. LINE THE AREAS WITH STABILIZER MAT PRIOR TO PLACEMENT OF FILL OR BASE MATERIAL
- 3. INSTALLATION
- a. GRADE OR FILL THE SITE AS REQUIRED IN ORDER THAT UPON DISTRIBUTION OF SOILS, RESULTING FROM EXCAVATIONS, THE RESULTING GRADE WILL CORRESPOND WITH SAID SUB-BASE COURSE. ELEVATIONS ARE TO BE CALCULATED FROM BENCHMARK, FINISHED GRADES, OR INDICATED SLOPES
- b. CLEAR EXCESS SPOILS, IF ANY, FROM JOB SITE AND DO NOT SPREAD BEYOND THE LIMITS OF PROJECT AREA UNLESS AUTHORIZED BY PROJECT MANAGER AND AGREED TO BY LANDOWNER.
- c. AVOID CREATING DEPRESSIONS WHERE WATER MAY POND.
- d. THE CONTRACT SHALL INCLUDE GRADING, BANKING, AND DITCHING, UNLESS OTHERWISE INDICATED
- e. PLACE FILL OR STONE IN SIX INCH (6") MAXIMUM LIFTS, AND COMPACT BEFORE PLACING NEXT LIFT.
- f. THE TOP SURFACE COURSE, SHALL EXTEND A MINIMUM OF ONE FOOT (1') BEYOND THE SITE FENCE (UNLESS OTHERWISE NOTED) AND SHALL COVER THE AREA AS INDICATED.
- g. APPLY SEED, FERTILIZER, AND STRAW COVER TO ALL OTHER DISTURBED AREAS, DITCHES, AND DRAINAGE SWALES, NOT OTHERWISE RIPRAP.

- h. UNDER NO CIRCUMSTANCES WILL DITCHES, SWALES, OR CULVERTS BE PLACED SO THAT THEY DIRECT WATER TOWARDS. OR PERMIT STANDING WATER IMMEDIATELY ADJACENT TO SHELTER OR EQUIPMENT. IF DESIGNS OR ELEVATIONS ARE IN CONFLICT WITH THIS, ADVISE CONSTRUCTION MANAGER IMMEDIATELY.
- i. APPLY SEED, FERTILIZER, AND STRAW COVER TO ALL OTHER DISTURBED AREAS, DITCHES, AND DRAINAGE SWALES, NOT OTHERWISE RIPRAP.

- k. IN DITCHES WITH SLOPES GREATER THAN 10% MOUND DIVERSIONARY HEADWALLS IN THE DITCH AT CULVERT ENTRANCES. POSITION THE HEADWALL AT AN ANGLE NO GREATER THAN THAT 60° OFF THE DITCH LINE. RIPRAP THE UPSTREAM SIDE OF THE HEADWALL AS WELL AS THE DITCH FOR SIX FEET (6') ABOVE THE CULVERT ENTRANCE.
- I. APPLY SEED AND FERTILIZER TO SURFACE CONDITIONS WHICH WILL ENCOURAGE ROOTING. RAKE AREAS TO BE SEEDED TO EVEN THE SURFACE AND LOOSEN THE SOIL
- m. SOW SEED IN TWO DIRECTIONS IN TWICE THE QUANTITY RECOMMENDED BY THE SEED PRODUCER.
- n. ENSURE GROWTH OF SEEDED AND LANDSCAPED AREAS, BY WATERING, UP TO THE POINT OF RELEASE FROM THE CONTRACT. CONTINUE TO REWORK THE BARE AREAS UNTIL COMPLETE COVERAGE IS OBTAINED.
- 4. FIELD QUALITY CONTROL: COMPACT SOILS TO MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557. AREAS OF SETTLEMENT WILL BE EXCAVATED AND REFILLED AT CONTRACTOR'S EXPENSE. INDICATE PERCENTAGE OF COMPACTION ACHIEVED ON AS-BUILT DRAWINGS.
- 5. PROTECTION
 - a. PROTECT SEEDED AREAS FROM EROSION BY SPREADING STRAW TO A UNIFORM LOOSE DEPTH OF 1-2 INCHES, STAKE AND TIE DOWN AS REQUIRED. USE OF EROSION CONTROL MESH OR MULCH NET WILL BE AN ACCEPTABLE ALTERNATIVE.
 - b. PROTECT ALL EXPOSED AREAS AGAINST WASHOUTS AND SOIL EROSION. PLACE STRAW BALES AT THE INLET APPROACH TO ALL NEW OR EXISTING CULVERTS. WHERE THE SITE OR ROAD AREAS HAVE BEEN ELEVATED IMMEDIATELY ADJACENT TO THE RAIL LINE, STAKE EROSION CONTROL FABRIC FULL LENGTH IN THE SWALE TO PREVENT CONTAMINATION OF THE RAIL BALLAST. ALL EROSION CONTROL METHODS SHALL CONFORM TO APPLICABLE BUILDING CODE REQUIREMENTS
 - SECTION 02830 FENCING AND GATE(S)

PART 1 - GENERAL

- 1. WORK INCLUDED SEE PLAN FOR SITE AND LOCATION OF FENCE 2. QUALITY ASSURANCE
 - a. ALL STEEL MATERIALS UTILIZED IN CONJUNCTION WITH THIS SPECIFICATION WILL BE GALVANIZED OR STAINLESS STEEL, WEIGHT OF ZINC COATING ON THE FABRIC SHALL NOT BE LESS THAN 12 OUNCES PER SQUARE FOOT OF MATERIAL COVERED. POSTS SHALL BE HOT-DIPPED IN GRADE "E" ZINC, 18 OUNCES PER SQUARE FOOT.
- 3. SEQUENCING
- a. IF THE SITE AREA HAS BEEN BROUGHT UP TO SURFACE COURSE ELEVATION (PRIOR TO THE FENCE CONSTRUCTION), FENCE POST EXCAVATION SPOILS MUST BE CONTROLLED TO PRECLUDE CONTAMINATION OF SAID SURFACE COURSE
- 4. SUBMITTALS
- a. MANUFACTURER'S DESCRIPTIVE LITERATURE
- b. CERTIFICATE OR STATEMENT OF COMPLIANCE WITH THE SPECIFICATIONS.
- PART 2 PRODUCTS
- 1. FENCE MATERIAL
 - a. ALL FABRIC WIRE, RAILS, HARDWARE, AND OTHER STEEL MATERIALS SHALL BE HOT-DIPPED GALVANIZED.
 - b. FABRIC SHALL BE SEVEN-FOOT (7') HIGH OR TO MATCH EXISTING FENCE TWO-INCH CHAIN LINK MESH OF NO. 9 GAUGE (0.148") WIRE. THE FABRIC SHALL HAVE A KNUCKLED FINISH FOR THE TOP SELVAGES. FABRIC SHALL CONFORM TO THE SPECIFICATIONS OF ASTM A-392 CLASS 1.
- c. ALL POSTS SHALL BE SCHEDULE 40 MECHANICAL SERVICE PIPE AND SHALL BE TYPE 1 ASTM A-128 AND OF THE FOLLOWING DIAMETER
- i. LINE 2" SCHEDULE 40 (2 3/8" O.D.)
- ii. CORNER 3" SCHEDULE 40 (3 1/2" O.D.)
- iii.GATE 3" SCHEDULE 40 (3 1/2" O.D.)
- d. ALL TOP AND BRACE RAILS SHALL BE 1" DIAMETER SCHEDULE 40 MECHANICAL - SERVICE PIPE.
- e. GATE FRAMES AND BRACES SHALL BE 1.90 INCH DIAMETER SCHEDULE 40 MECHANICAL - SERVICE PIPE. FRAMES SHALL HAVE WELDED CORNERS.
- f. GATE FRAMES SHALL HAVE A FULL-HEIGHT VERTICAL BRACE, AND A FULL-WIDTH HORIZONTAL BRACE, SECURED IN PLACE BY USE OF GATE BRACE CLAMPS
- g. GATE HINGES SHALL BE MERCHANTS METAL MODEL 64386 HINGE ADAPTER WITH MODEL 6409, 188-DEGREE ATTACHMENT.
- h. A NO. 7 GAUGE ZINC COATED TENSION WIRE SHALL BE USED AT THE BOTTOM OF THE FABRIC, TERMINATED WITH BAND CLIPS AT CORNER AND GATE POSTS.
- i. A SIX-INCH BY 1/2-INCH DIAMETER EYEBOLT TO HOLD TENSION WIRE SHALL BE PLACED AT LINE POSTS.
- j. STRETCHER BARS SHALL BE 3/16-INCH BY 3/4-INCH OR HAVE EQUIVALENT CROSS-SECTIONAL AREA.
- k. ALL CORNER GATE AND PANELS SHALL HAVE A 3/8-INCH TRUSS ROD WITH TURNBUCKLES.
- I. ALL POST EXCEPT GATE POSTS SHALL HAVE A COMBINATION CAP AND BARBED WIRE SUPPORTING ARM, GATE POSTS SHALL HAVE A DOME CAP

- m. OTHER HARDWARE INCLUDES BUT MAY NOT BE LIMITED TO TIE CLIPS, BAND CLIPS, AND TENSION BAND CLIPS
- n. ALL CAPS SHALL BE MALLEABLE IRON, DOME OR ACORN SHAPED AS REQUIRED BY PIPE SIZE
- PART 3 EXECUTION
- 1. INSPECTION: TO CONFIRM PROPER DEPTH AND DIAMETER OF POST HOLE EXCAVATIONS. ALL POST HOLES WILL BE EXCAVATED AS PER CONSTRUCTION

DOCUMENTS. 2. INSTALLATION

PART 1 - GENERAL

2. INSPECTIONS

3. OUALITY ASSURANCE

REINFORCING STEEL

FINISH

1. REINFORCEMENT MATERIALS

318, ASTM A184.

2. CONCRETE MATERIALS

PART 2 - PRODUCTS

ACI 301 AND ASTM 318

ACI 318, AND ASTM A184.

CONCRETE INSTALLATION

301. ACI 318. AND ACI 117-90

BILLET STEEL BARS, PLAIN FINISH

SUPPORTS OR REINFORCING.

a. CEMENT: ASTM C150, PORTLAND TYPE

CONCRETE, FINISHING, AND CURING

- a. FOUNDATIONS SHALL HAVE A MINIMUM SIX INCH (6") CONCRETE COVER UNDER POST.
- b. ALL FENCE POSTS SHALL BE VERTICALLY PLUMB; ON QUARTER INCH (1/4")
- C AT CORNER POSTS GATE POSTS AND SIDES OF GATE FRAME FABRIC SHALL BE ATTACHED WITH STRETCHER AND TENSION BAND-CLIPS AT FIFTEEN (15) INCH INTERVALS.
- d. AT LINE POSTS, FABRIC SHALL BE ATTACHED WITH BAND-CLIPS AT FIFTEEN (15) INCH INTERVALS.
- e. FABRIC SHALL BE ATTACHED TO BRACE RAILS, TENSION WIRE AND TRUSS RODS WITH TIE-CLIPS AT TWO FOOT (2') INTERVALS
- f. A MAXIMUM GAP OF ONE INCH WILL BE PERMITTED BETWEEN TIE CHAIN LINE FABRIC AND THE FINAL GRADE
- g. GATE SHALL BE INSTALLED SO LOCKS ARE ACCESSIBLE FROM BOTH SIDES.
- h. GATE HINGE BOLTS SHALL HAVE THEIR THREADS PEENED OR WELDED TO
- PREVENT UNAUTHORIZED REMOVAL i. CONCRETE TO BE A MINIMUM OF 4,000 PSI AT 7 DAYS. CEMENT SHALL EXCEED ASTM C150, TYPE IIIA.
- 3. PROTECTION: UPON COMPLETION OF ERECTION, INSPECT FENCE MATERIAL AND PAINT FIELD CUTS OR GALVANIZING BREAKS WITH ZINC-BASED PAINT,
- COLOR TO MATCH THE GALVANIZED METAL. APPLICABLE STANDARDS

ASTM-A120 SPECIFICATION FOR PIPE, STEEL, BLACK AND HOT-DIPPED ZINC COATED (GALVANIZED) WELDED AND SEAMLESS, FOR ORDINARY USES.

- ASTM-A123 ZINC (HOT-DIP GALVANIZED) COATING ON IRON AND STEEL PRODUCTS. ASTM-A153 STANDARD SPECIFICATION FOR ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE. ASTM-A392 SPECIFICATION FOR ZINC-COATED STEEL CHAIN LINK FENCE FABRIC.
- ASTM-A491 SPECIFICATION FOR ALUMINUM-COATED STEEL CHAIN LINK FENCE FABRIC
- ASTM-A525 STANDARD SPECIFICATION FOR STEEL SHEET ZINC COATED (GALVANIZED) BY THE HOT-DIPPED PROCESS.
- ASTM-A570 SPECIFICATION FOR HOT-ROLLED CARBON STEEL SHEET AND STRIP. STRUCTURAL QUALITY.
- A.FEDERAL SPECIFICATION RR-F-191-FENCING, WIRE AND POST METAL (AND GATES, CHAIN LINK FENCE FABRIC, AND ACCESSORIES)

DIVISION 3: CONCRETE SECTION 03000 - BASIC CONCRETE MATERIALS AND METHODS

INSPECTIONS REQUIRED FOR HIS SCOPE OF WORK

48 HOURS IN ADVANCE OF CONCRETE POURS.

1. WORK INCLUDED: FORMWORK, REINFORCEMENT, ACCESSORIES, CAST-IN-PLACE

a. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING BUILDING DEPARTMENT

LESSEE'S CONSTRUCTION MANAGER PRIOR TO PLACEMENT OF CONCRETE.

c. THE LESSEE'S CONSTRUCTION MANAGER SHALL BE NOTIFIED NO LESS THAN

b. ALL REINFORCING STEEL SHALL BE INSPECTED AND APPROVED BY THE

a. CONSTRUCT AND ERECT CONCRETE FORMWORK IN ACCORDANCE WITH

c. PERFORM CAST-IN-PLACE CONCRETE WORK IN ACCORDANCE WITH ACI

d. OPEN FOUNDATION TRENCHES SHALL BE INSPECTED BY MES PRIOR TO

DRAWINGS FOR APPROVAL BY LESSEE CONSTRUCTION MANAGER/ENGINEER

MIX DESIGN INFORMATION SHEETS AND TWO (2) BLUELINE DRAWINGS FOR

a. REINFORCEMENT STEEL, ASTM A615, 60 ksi YIELD GRADE, DEFORMED

c. CHAIRS, BOLSTERS, BAR SUPPORTS, SPACERS. SIZED AND SHAPED FOR

d. FABRICATE CONCRETE REINFORCING IN ACCORDANCE WITH ACI 315, ACI

b. WELDED STEEL WIRE FABRIC ASTM A185 PLAIN TYPE IN FLAT SHEETS. PLAIN

THE SHOP DRAWING SHALL BE SUBMITTED IN THE FORM OF TWO (2) CONCRETE

4. SUBMITTALS: SUBMIT CONCRETE MIX AND REINFORCING STEEL SHOP

b. PERFORM CONCRETE REINFORCING WORK IN ACCORDANCE WITH ACI 301,

b. FINE AND COURSE AGGREGATES: ASTM C33 - MAXIMUM SIZE OF CONCRETE AGGREGATE SHALL NOT EXCEED: ONE INCH (1") SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR ONE-THIRD (1/3) CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING.

c. WATER: CLEAN AND NOT DETRIMENTAL TO CONCRETE

d. AIR ENTRAINING ADMIXTURE: ASTM C260

3. CONCRETE MIX

AS FOLLOWS

ii. SLUMP: 3 INCHES

OTHER INSERTS.

DISPLACEMENT.

3. PLACING CONCRETE

CONCRETE SURFACES.

4. CURING

PART 3 - EXECUTION

e. BONDING AGENT: LATEX EMULSION FOR BONDING NEW TO OLD CONCRETE AS MANUFACTURED BY DAYTON SUPERIOR.

f. NON-SHRINK GROUT: PREMIXED COMPOUND CONSISTING OF NONMETALLIC AGGREGATE. CEMENT, WATER REDUCING AND PLASTICISING AGENTS.

a. CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE A.C.I. REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE

b. MIX AND DELIVER CONCRETE IN ACCORDANCE WITH ASTM C94, ALT, 3 c. PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR LOCAL ANTICIPATED AGGRESSIVE ACTIONS THE DURABILITY REQUIREMENTS OF ACI 318 CHAPTER 4 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. PROVIDE CONCRETE

i. COMPRESSIVE STRENGTH: 4000 psi AT 7 DAYS. SEE SHEET 2-1 FOR CAISSON CONCRETE COMPRESSIVE STRENGTH

1. INSERTS, EMBEDDED COMPONENTS AND OPENINGS

a. THE CONSTRACTOR SHALL COORDINATE AND CROSS-CHECK ARCHITECTURAL, BUILDING & ELECTRICAL DRAWINGS FOR OPENINGS, SLEEVES, ANCHORS, HANGERS, AND OTHER ITEMS RELATED TO CONCRETE WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THE PROPER LOCATION BEFORE PLACING CONCRETE

b. PROVIDE FORMED OPENINGS WHERE REQUIRED FOR WORK TO BE EMBEDDED IN AND PASSING THROUGH CONCRETE MEMBERS. c. COORDINATE WORK OF OTHER SECTIONS IN FORMING AND SETTING OPENING, SLOTS, RECESSES, CHASES, SLEEVES, BOLTS, ANCHORS, AND

d. INSTALL CONRETE ACCESSORIES STRAIGHT, LEVEL AND PLUMB. 2. REINFORCEMENT PLACEMENT

a. PLACEMENT REINFORCEMENT, SUPPORTED AND SECURED AGAINST

b. ENSURE REINFORCING IS CLEAN, FREE OF LOOSE SCALE, DIRT, OR OTHER FOREIGN COATINGS

c. WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.

d. MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE THREE INCHES (3") UNLESS OTHERWISE NOTED.

e. CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REINFORCEMENT SHALL NOT EXCEED THREE INCHES (3") NOR BE LESS THAN TWO INCHES (2").

a. VIBRATE ALL CONCRETE.

b. ALL CONCRETE WORK SHALL ADHERE TO THE LATEST A.C.I. STANDARDS FOR WINTER POURING AND CURING PROCECURES IF SEASONAL CONDITIONS APPLY.

a. AFTER PLACEMENT, PROTECT CONCRETE FROM PREMATURE DRYING. b. MAINTAIN CONCRETE WITH MINIMAL MOISTURE LOSS AT RELATIVELY CONSTANT TEMPERATURE FOR A PERIOD NECESSARY FOR HYDRATION OF CEMENT AND HARDENING OF CONCRETE.

5. PROVIDE HAND RUBBED SMOOTH FINISH TO ALL EXPOSED VERTICAL FORMED

6. FIELD QUALITY CONTROL

a. SUBMIT THREE (3) CONCRETE TEST CYLINDERS - TAKEN FOR EVERY 15 CUBIC YARD OR LESS. SUBMIT CONCRETE TESTS TO THE PROJECT MANAGER IN ACCORDANCE WITH ASTM, C-31 AND C-39.

b. SUBMIT ONE (1) ADDITIONAL TEST CYLINDER - TAKEN DURING COLD WEATHER POURS, AND CURED ON JOB SITE UNDER SAME CONDITIONS AS CONCRETE IT REPRESENTS.

c. SUBMIT ONE (1) SLUMP TEST - TAKEN FOR EACH SET OF TEST CYLINDERS

7. DEFECTIVE CONCRETE: MODIFY OR REPLACE CONCRETE NOT CONFORMING TO REQUIRED LINES, DETAILS OR ELEVATIONS AT COST OF GC, AS DIRECTED BY ARCHITECT/ENGINEER.

				TOWER 2, SUITE 400	ROLLING MEADOWS, IL 60008 DHONE: (847) 640-5307	FAX: (847) 706-7415		
	4			600 BUSSE HIGHWAY	PARK RIDGE, IL 60068 PH: 847-698-6400	FAX: 847-698-6401		
	ΒY	SLT	APD	TJS	JUR	JJR	JJR	JJR
	DATE	05/16/23	06/16/23	07/05/23	08/15/23	10/25/23	11/17/23	01/02/24
REVISIONS	DESCRIPTION	ISSUED FOR REVIEW	ISSUED FOR FINAL	REVISED PER RF COMMENTS	ISSUED FOR REVIEW	REVISED PER LANDLORDS COMMENTS	REVISED PER NEW RFDS	ADDITION OF NORTHEAST ELEVATION
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DIVISION 5: METALS

SECTION 05000 - METALS PART 1 - GENERAL

- 1.
- SECTION INCLUDES: STRUCTURAL STEEL FRAMING MEMBERS, BASE PLATES, PLATES, BARS AND GROUTING UNDER BASE PLATES.
- SUBMITTALS: 2.
- SHOP DRAWINGS: INDICATE SIZES, SPACING, AND LOCATIONS OF STRUCTURAL MEMBERS, OPENINGS, CONNECTIONS, CAMBERS, LOADS, AND WELDED SECTIONS. QUALITY ASSURANCE
- A. FABRICATE STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
- B. PERFORM DESIGN UNDER DIRECT SUPERVISION OF A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE.

PART 2 - PRODUCTS

1.	MATE	RIALS:	
	В. С. D.	STRUCTURAL STEEL MEMBERS: STRUCTURAL TUBING: PIPE: BOLTS, NUTS, AND WASHERS: ANCHOR BOLTS: WELDING MATERIALS:	ASTM A572, GRADE 50 ASTM A500, GRADE B ASTM A53, TYPE E OR S, GRADE B ASTM A325 ASTM A307 AWS D1.1, TYPE REQUIRED FOR MATERIALS BEING WELDED
	G.	GROUT:	NON-SHRINK TYPE, PREMIXED COMPOUND CONSISTING OF NONMETALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING ADDITVES, CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 7000 psi AT 28 DAYS.
	н. L	SHOP AND TOUCH-UP PRIMER: TOUCH-UP PRIMER	SSPC 15, TYPE 1, RED OXIDE
		FOR GALV. SURFACES:	ZINC RICH TYPE

2. FABRICATION

- CONTINUOUSLY SEAL JOINTED MEMBERS BY CONTINUOUS WELDS. GRIND EXPOSED WELDS SMOOTH.
- FINISH:
- A. PREPARE STRUCTURAL COMPONENT SURFACES IN ACCORDANCE WITH SSPC SP-1 TO SP-10 PROCEDURES.
- B. STRUCTURAL STEEL MEMBERS SHALL BE HOT DIPPED GALVANIZED.

PART 3 - EXECUTION

- 1. EXAMINATION AND PREPARATION: VERIFY THAT THE FIELD CONDITIONS ARE ACCEPTABLE.
- 2. ERECTION:
 - ALLOW FOR ERECTION LOADS. PROVIDE TEMPORARY BRACING TO MAINTAIN FRAMING IN ALIGNMENT UNTIL COMPLETION OF ERECTION AND INSTALLATION OF PERMANENT BRIDGING AND BRACING.
 - B. FIELD WELD COMPONENTS INDICATED ON SHOP DRAWINGS.
- C. DO NOT FIELD CUT OR ALTER STRUCTURAL MEMBERS WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER.
- AFTER ERECTION, TOUCH-UP WELDS, ABRASIONS, AND SURFACES NOT SHOP PRIMED OR GALVANIZED WITH TOUCH-UP PRIMERS AS SPECIFIED UNDER SECTION 05000,-METALS, PART 2 PRODUCTS, H & I. SURFACES TO BE IN CONTACT D. WITH CONCRETE NOT INCLUDED.
- 3. FIELD QUALITY CONTROL
- FIELD INSPECTION OF MEMBERS, CONNECTIONS, WELDS AND TORQUING.

DIVISION 16: ELECTRICAL

- SECTION 16050 BASIC ELECTRICAL MATERIALS AND METHODS
- CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS PRIOR TO ORDERING THE ELECTRICAL EQUIPMENT AND STARTING THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT LISTING ANY DISCREPANCIES OR CONFLICTING INFORMATION OR CONFLICTING INFORMATION.
- ELECTRICAL PLANS, DETAILS AND DIAGRAMS ARE DIAGRAMMATIC ONLY. 2. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS OF ELECTRICAL EQUIPMENT WITH OWNER PRIOR TO INSTALLATION.
- EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, JUNCTION BOX, SWITCH BOX, ETC. THE TYPE OF TAGGING METHODS SHALL BE IN COMPLIANCE WITH 3. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (0.S.H.A.).
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN GOOD WORKING CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED "J" WHERE APPLICABLE. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, NBFU AND "UL" LISTED.
- ALL CONDUIT SHALL HAVE A PULL CORD. 5.
- PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING 6. ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
- ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY UBC, NEC AND ALL APPLICABLE CODES.
- PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
- PLASTIC PLATES FOR ALL SWITCHES, RECEPTACLES, TELEPHONE AND BLANKED OUTLETS SHALL HAVE ENGRAVED LETTERING WHERE INDICATED ON THE DRAWINGS. WEATHERPROOF RECEPTACLES SHALL HAVE SIERRA #WPD-8 LIFT COVERPLATES. 10.

- SECTION 16400 SERVICE AND DISTRIBUTION WIRE AND CABLE CONDUCTORS SHALL BE COPPER, 600V, TYPE THHN OR THWN, WITH A MIN. SIZE OF #12 AWG, COLOR CODED. ALL RECTIFIER DROPS SHALL BE STRANDED TO ACCEPT CRIMP CONNECTORS. ALL CHEMICAL GROUND RODS SHALL BE "UL" APPROVED. 2. METER SOCKET AMPERES, VOLTAGE, NUMBER OF PHASES SHALL BE AS NOTED ON THE DRAWINGS. MANUFACTURED BY MILBANK OR APPROVED EQUAL, AND SHALL BE UTILITY COMPANY APPROVED. CONDUIT: RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH GALVANIZED 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 WITH WARD POCCESS NO. 3 A. WITH HUNTS WRAP PROCESS NO. 3. B. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTING SHALL BE GLAND RING COMPRESSION TYPE. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. ALL FLEXIBLE CONDUITS SHALL HAVE С. FULL LENGTH GROUND WIRE. ALL UNDERGROUND CONDUIT SHALL BE AS NOTED ON THE DRAWINGS AT A MINIMUM DEPTH OF 42" BELOW GRADE. IT IS REQUIRED AND WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO NOTIFY J.J.L.I.E. AT 1-800-892-0123 OR OTHER SUCH NOTIFYING AGENCY FORTY-EIGHT (48) HOURS PRIOR TO DIGGING.
 - CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS ARE TO BE PAID BY THE CONTRACTOR.
 - ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS WITH WHITE ON BLUE BACKGROUND LETTERING (MINIMUM LETTER HEIGHT SHALL BE ONE FORTH INCH (1/4"). NAMEPLATES SHALL BE FASTENED WITH STAINLESS STEEL SCREWS, NOT ADHESIVE.
 - UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS BY AN INDEPENDENT TESTING SERVICE ENGAGED BY THE CONTRACTOR SHALL BE SUBMITTED FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
- 8. GROUNDING ELECTRODE SYSTEM
- A. PREPARATION
 - SURFACE PREPARATION SURFACE PREPARATION: ALL CONNECTIONS SHALL BE MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE FIELD INSPECTED AND MODIFIED TO ENSURE PROPER CONTACT. NO WASHERS ARE ALLOWED BETWEEN THE ITEMS BEING GROUNDED. ALL CONNECTIONS ARE TO HAVE A NON-OXIDIZING AGENT APPLIED PRIOR TO INSTALLATION.
 - GROUND BAR PREPARATION: 2. ALL COPPER GROUND BARS SHALL BE CLEANED, POLISHED AND A NON-OXIDIZING AGENT APPLIED. NO FINGERPRINTS OR DISCOLORED COPPER WILL BE PERMITTED.
 - SLEEVES:
 - ALL GROUNDING CONDUCTORS SHALL RUN THROUGH PVC SLEEVES WHEREVER CONDUCTORS RUN THROUGH WALLS, FLOORS OR CEILINGS. IF CONDUCTORS MUST RUN THROUGH EMT, BOTH ENDS OF CONDUIT SHALL BE GROUNDED. SEAL BOTH ENDS OF CONDUIT WITH SILICONE CAULK.
- B GROUND BARS
 - ALL GROUND BARS SHALL BE ONE FORTH INCH (1/4") THICK TINNED COPPER PLATE AND OF SIZE INDICATED ON DRAWINGS.
 - ALL CONNECTIONS TO THE GROUND BAR SHALL OBSERVE THE FOLLOWING SEQUENCE:

 - BOLT-HEAD 2-HOLE LUG
 - TINNED COPPER BUSS BAR STAR WASHER NUT
 - Ε.
- C. EXTERNAL CONNECTIONS
 - ALL BURIED GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC ALL BOILED GROUPDING CONNECTIONS SHALL BL MADE BI THE LADITLEMENT WELD PROCESS. CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE, SPLICES, TEE'S, CROSSES, ETC. ALL CABLE TO GROUND RODS, GROUND ROD SPLICES AND LIGHTNIG PROTECTION SYSTEMS ARE TO BE AS INDICATED. ALL MATERIALS USED (MOLDS, WELDING METAL, TOOLS, ETC.) SHALL BE BY "CADWELD" AND INSTALLED PER MANUFACTURER'S RECOMMENDED PROCEDURES.
 - ALL ABOVE GRADE GROUNDING AND BONDING CONDUCTORS SHALL BE CONNECTED BY TWO HOLE CRIMP TYPE (COMPRESSION) CONNECTIONS (EXCEPT FOR THE ACEG AND GROUND ROD) MECHANICAL CONNECTIONS, FITTINGS OR CONNECTIONS THAT DEPEND SOLELY ON SOLDER SHALL NOT BE USED. ALL CABLE TO CABLE CONNECTIONS SHALL BE HIGH PRESSURE DOUBLE CRIMP TYPE CONNECTIONS. CONNECTIONS TO STRUCTURAL STEEL SHALL BE EXOTHERMIC WELDS.
- D. GROUND RODS

ALL GROUND RODS SHALL BE 5/8-INCH DIAMETER X 10'-O" LONG "COPPERWELD" OR APPROVED EQUAL, OF THE NUMBER AND LOCATIONS INDICATED. GROUND RODS SHALL BE DRIVEN FULL LENGTH VERTICAL IN UNDISTURBED EARTH.

ALL GROUND CONDUCTORS SHALL BE STANDARD TINNED SOLID BARE COPPER ANNEALED, AND OF SIZE INDICATED ON DRAWINGS UNLESS NOTED OTHERWISE. F. LUGS

- LUGS SHALL BE 2-HOLE, LONG BARREL, STRAND COPPER UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS. LUGS SHALL BE THOMAS AND
- BETTS SERIES #548_ _BE OR EQUIVALENT EZE MON DIO

Α.	535 MCM DLO	54880BE
в.	262 MCM DLO	54872BE
С.	#1/0 DLO	54862BE
D.	#4/0 THWN AND BARE	54866BE
Ε.	#2∕O THWN	54862BE
F.	#2 THHN	54207BE
G.	#6 DLO	54205BE

- 2. WHEN THE DIRECTION OF THE CONDUCTOR MUST CHANGE, I SHALL BE DONE GRADUALLY. THE CURVATURE OF THE TURN SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING CHART: MINIMUM BENDING GROUNDING CONDUCTOR SIZE RADIUS TO INSIDE EDGE
- 6 INCHES NO. 6 AWG TO NO. 4 AWG NO. 2 AWG TO NO. 1/0 AWG 8 INCHES NO. 2/0 AWG TO 4/0 MCM 12 INCHES MCM TO 750 MCM 24 INCHES
- G. GROUND RING
 - THE EXTERNAL GROUND RING ENCIRCLING THE TOWER (IF APPLICABLE) AND BETWEEN THE EQUIPMENT SHELTER PLATFORM ANCHORS SHALL BE MINIMUM NO. 2. AW.G. SOLID TINNED BARE COPPER CONDUCTOR IN DIRECT CONTACT WITH THE EARTH AT THE DEPTH INDICATED ON THE DRAWINGS. CONDUCTOR CONDUCTOR BENDS SHALL HAVE A MINIMUM BENDING RADIUS OF EIGHT INCHES (8").
 - 2. ALL EXTERNAL GROUND RINGS ARE TO BE JOINED TOGETHER AND ALL CONNECTIONS MUST BE CADWELDED. NO LUGS OR CLAMPS WILL BE ACCEPTED
- H. FENCE/GATE

GROUND EACH GATE POST, CORNER POST AND GATE AS INDICATED ON DRAWING GROUND CONNECTIONS TO FENCE POSTS AND ALL OTHER CONNECTIONS FOR THE GROUND GRID SYSTEM SHALL BE MADE BY EXOTHERMIC WELD PROCESS, AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND PROCEDURES, AND SPRAYED WITH COLD-GALVANIZED PAINT.

- 9. I.E.E.E. FALL POTENTIAL TESTS
 - A. FOR RAW LAND SITE
 - GROUND TESTS SHALL BE PERFORMED AS INDICATED ON DRAWINGS. A BIDDLE GROUND OHMER OR THE METHOD OF USING TWO AUXILLARY GROUND RODS (AS DESCRIBED IN LE.E. STANDARDS NO. 81-1983, PART 1) MAY BE USED. THE LE.E. METHOD REQUIRES THE USE OF AN A.C. TEST CURRENT. THE AUXILLARY TEST RODS MUST BE SUFFICIENTLY FAR AWAY FROM THE ROD UNDER TEST SO THAT THE REGIONS IN WHICH THEIR RESISTANCE IS LOCALIZED DO NOT OVERLAP. THE TEST POINT WILL BE THE GROUND ROD AND WILL CONSIST OF THE THREE POINT FALL OF POTENTIAL MEGGER TEST METHOD, USING THE BIDDLE NULL-BALANCE FABTH TESTER (MEGGER TEST METHOD, USING THE BIDDLE NULL-BALANCE EARTH TESTER (MEGGER #250220-2 OR EQUIVALENT)
 - 2. CONTRACTOR TO CONDUCT GROUND RESISTANCE TEST IN THE FORMAT AS FOLLOWS:

B. EQUIPMENT PAD

- FIRST TEST SHALL BE WITH FOUR GROUND RODS INSTALLED, ONE AT EACH CORNER OF THE PAD BUT NOT CONNECTED TO THE MAIN GROUNDING BUS. FURNISH WIRE TO CONNECT (TEMPORARY CLAMP) ALL FOUR GROUND RODS TOGETHER TO MAKE A SYSTEM TEST AFTER EACH ROD IS INDIVIDUALLY TESTED. IF ANY INDIVIDUAL ROD TESTS 25 OHMS OR MORE, THE ELECTRICAL CONTRACTOR AND OWNER'S REPRESENTATIVE SHOULD BE NOTIFIED SO THAT THE ROD CAN BE DRIVEN DEEPER UNTIL ALL FOUR RODS HAVE A RESISTANCE OF 10 OHMS OR LESS ON A DRY DAY.
- SECOND TEST SHALL BE WITH THE GROUND RODS CONNECTED, WITH DRY SOIL AND WHEN NO STANDING WATER HAS BEEN PRESENT FOR THE PAST TEN (10) DAYS. THE MAXIMUM ALLOWABLE READING IS 5 OHMS TO GROUND. IF THE RESISTANCE OF THE ENTIRE SYSTEM EXCEEDS 2. 5 OHMS NOTIFY THE CONTRACTOR AND OWNER'S REPRESENTATIVE SO THAT ADDITIONAL AND/OR DEEPER RODS CAN BE INSTALLED

C. TOWER

- FIRST TEST SHALL BE WITH THREE GROUND RODS INSTALLED (MINIMUM), EQUALLY SPACED AROUND THE TOWER FOUNDATION, BUT NOT CONNECTED TO THE SHELTER PAD EXTERNAL GROUND RING. FURNISH WIRE TO CONNECT (TEMPORARY CLAMP) ALL THREE GROUND RODS TOGETHER TO MAKE A SYSTEM TEST AFTER EACH ROD IS INDIVIDUALITY TESTED. IF ANY INDIVIDUAL ROD TESTS 25 OHMS OR MORE, NOTIFY THE CONTRACTOR AND OWNER'S REPRESENTATIVE OF THE OFFICE AND DEPENDENT OF THE DEPENDENT OF THE OFFICE (1) DOES SO THAT THE ROD CAN BE DRIVEN DEEPER UNTIL ALL THREE (3) RODS HAVE A RESISTANCE OF 10 OHMS OR LESS ON A DRY DAY
- SECOND TEST SHALL BE WITH THE GROUND RODS CONNECTED, WITH DRY SOIL AND WHEN NO STANDING WATER HAS BEEN PRESENT FOR THE PAST TEN (10) DAYS, THE MAXIMUM ALLOWABLE READING IS 5 OHMS TO GROUND. IF THE RESISTANCE OF THE ENTIRE SYSTEM EXCEEDS 5 OHMS THE ELECTRICAL CONTRACTOR AND OWNER'S REPRESENTATIVE SHOULD BE NOTFIED SO THAT EITHER ADDITIONAL AND/OR DEEPER RODS CAN BE INSTALLED. 2.

D. EQUIPMENT PAD AND TOWER

- 1. AFTER THE EQUIPMENT PAD AND TOWER GROUND RESISTANCE TEST IS COMPLETED, CONTRACTOR SHALL THE EQUIPMENT PAD EXTERNAL GROUND RING AND TOWER EXTERNAL GROUND RING TOGETHER. AFTER FIRST AND SECOND TEST ALL CONNECTIONS MUST BE MADE USING EXOTHERMIC WELD. NO LUGS OR CLAMPS WILL BE ACCEPTED.
- AFTER ALL THE EXTERNAL GROUND RINGS ARE TIED TOGETHER, COMPLETE A MEGGER CHECK OF THE GROUND SYSTEM SHOULD BE DONE. THE MAXIMUM ALLOWABLE LEADING IS 5 OHMS TO GROUND.

10. GROUNDING RESISTANCE TEST REPORT

UPON COMPLETION OF THE TESTING FOR EACH SITE, A TEST REPORT SHOWING RESISTANCE IN OHMS WITH AUXILIARY POTENTIAL ELECTRODES AT 5 FEET AND 10 FEET INTERVALS UNTIL THE AVERAGE RESISTANCE STARTS INCREASING AND ALSO NOTE THAT 10-15 PHOTOS MUST BE TAKEN TO PROOF ENTIRE EXTERNAL GROUND RING SYSTEM BEFORE BACKFILL. TWO (2) SETS OF TEST DOCUMENTS ARE OF THE INDEPENDENT TESTING SERVICE TO BE BOUND AND SUBMITTED WITHIN ONE (1) WEEK OF WORK COMPLETION.

SECTION 16503 - POLES, POSTS, AND STANDARDS (SINGLE MAST AND SELF SUPPORTING TOWERS)

2. 5. TESTING

1.

C. GROUNDING:

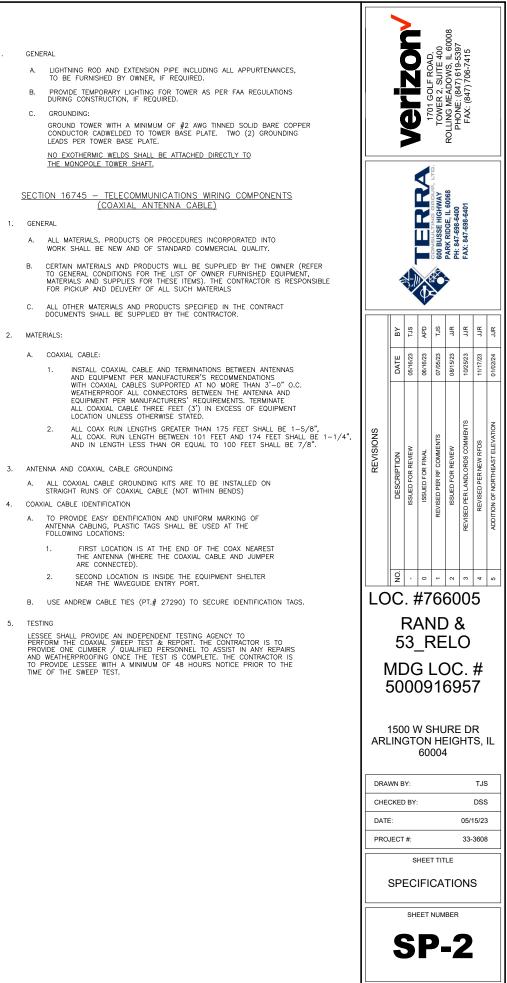
GENERAL

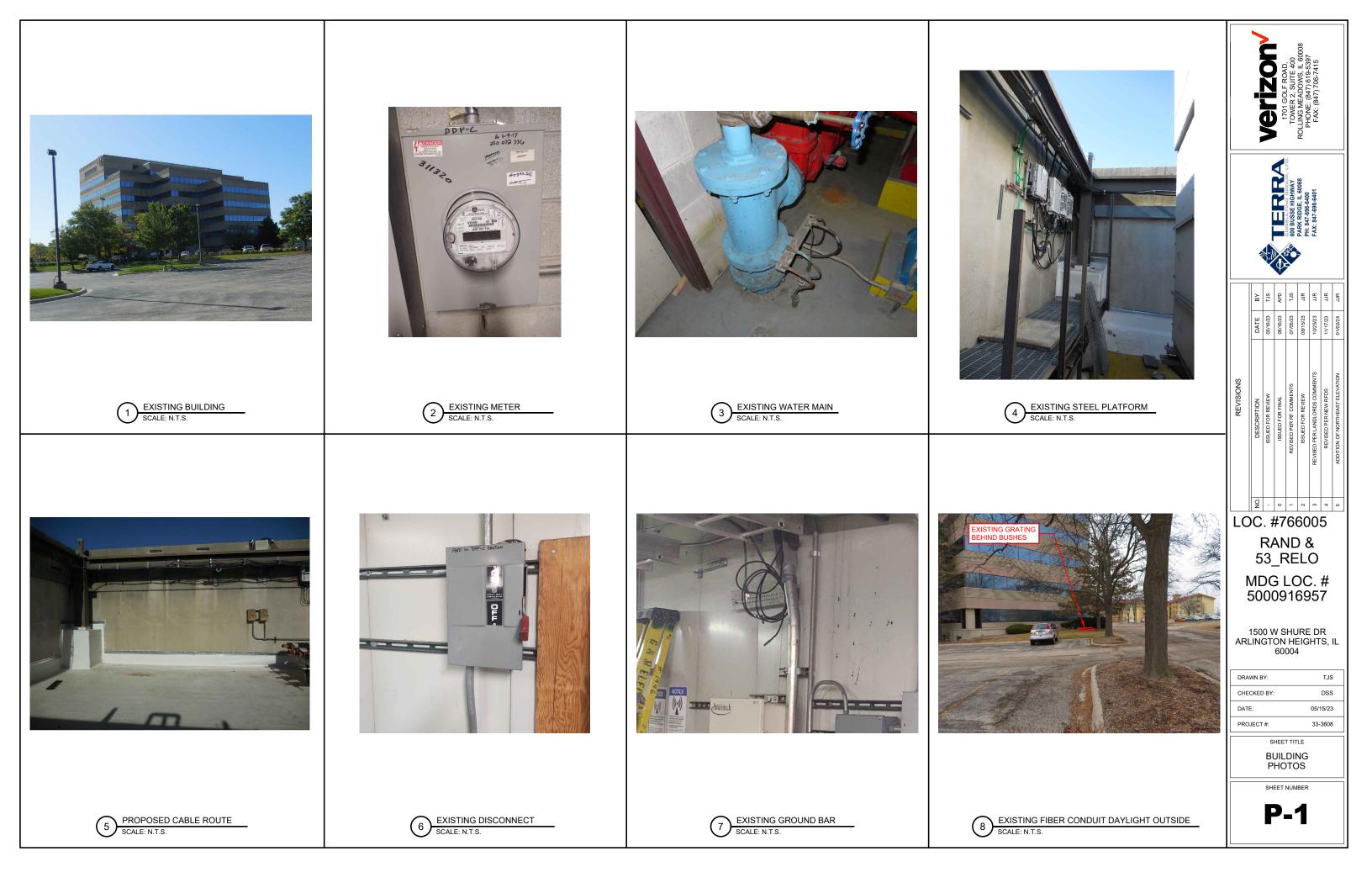
1.

GENERAL

- MATERIALS:
 - A. COAXIAL CABLE:

2.





SURVEYOR'S NOTE

THE PARENT PARCEL BOUNDARY OF THIS DRAWING IS ILLUSTRATED FROM RECORD INFORMATION AND IS APPROXIMATE.

THE TOPOGRAPHICAL SURVEY FOR THIS MAP WAS PERFORMED ON OCTOBER 29, 2019. NOT TO BE USED AS CONSTRUCTION DRAWINGS.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON NAVD 88 DATUM. CONTOURS ARE ILLUSTRATED AT 1.0' INTERVALS.

BASIS OF BEARINGS

LATITUDE AND LONGITUDE OF SITE REFERENCE POINT ARE BASED ON THE HARN (HIGH ACCURACY REFERENCE NETWORK) NAD83 (CORS 96) BEARINGS ARE BASED ON ILLINOIS STATE PLANE, IL EAST 1201 TO ORIENT DRAWING TO TRUE NORTH, ROTATE CLOCKWISE 0013/19-53".

EASEMENTS, COVENANTS, CONDITIONS, AND RESTRICTIONS

THE TITLE COMMITMENT ISSUED BY NEAR NORTH NATIONAL TITLE LLC, ISSUING AGENT FOR CHICAGO TITLE INSURANCE COMPANY, AS COMMITMENT NO. L1909132, DATED SEPTEMBER 17, 2019 LISTS THE FOLLOWING EASEMENTS, COVENANTS, CONDITIONS, AND RESTRICTIONS, THAT ARE MATTERS OF SURVEY, AFFECTING THE PARENT PARCEL UNDER "SCHEDULE B":

SEE SHEET 2

ZONING DATA

ACCORDING TO THE SITE CANDIDATE INFORMATION PACKAGE THIS SITE IS ZONED: M-1 (LICHT MANUFACTURING DISTRICT) SETBACKS: FRONT: N/A REAR: N/A SIDE: N/A

PROPRIETOR

YPI ARLINGTON LLC 12377 MERIT DR. #250 DALLAS, TX 75251-3201

FLOOD PLAIN INFORMATION WE HAVE CONSULTED THE FEDERAL EMERGENCY MANAGEMENT AGENCY NATIONAL FLOOD INSURANCE MAP AS PREPARED FOR THE VILLAGE OF ARLINGTON HEIGHTS, COOK COUNTY, ILLINOIS, COMMUNITY PANEL

MAP AS PREPARED FOR THE VILLAGE OF ARLINGTON HEIGHTS, COOK COUNTY, ILLINOIS, COMMUNITY PANEL NUMBER 17031C0044J DATED AUGUST 19, 2008, AND FIND THAT THE PROJECT SITE IS IN ZONE X (UNSHADED).

LEGAL DESCRIPTION

PARENT PARCEL

PARCEL 1: LOT 2 IN BILL KNAPP'S RESUBDIVISION ACCORDING TO THE PLAT THEREOF RECORDED JULY 12, 1983 AS DOCUMENT 26683318, BEING A RESUBDIVISION OF LOT 4 IN ARLINGTON INDUSTRIAL AND RESEARCH CENTER UNIT 12, BEING A SUBDIVISION IN PART OF THE NORTHWEST 1/4 OF SECTION 7, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, LLINDIS.

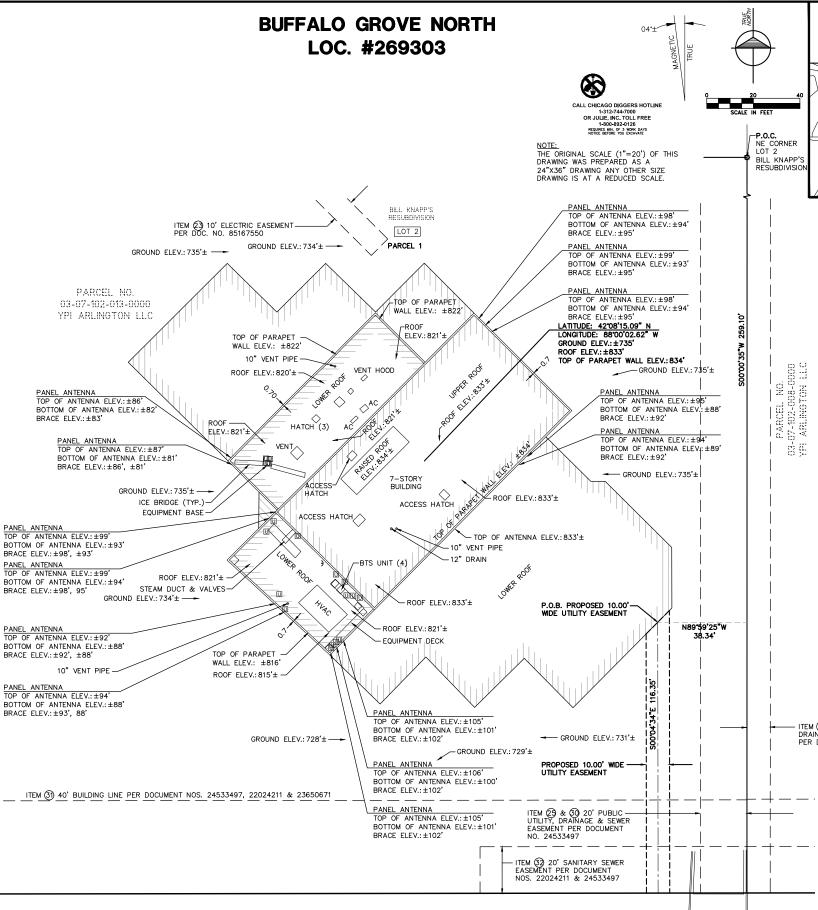
IN COOK COUNTY, LUNDIS. PARCEL 2: EASEMENT FOR THE BENEFIT OF PARCEL 1 AS CREATED BY EASEMENT ACREEMENT FOR THE BENEFIT OF PARCEL 1 AS CREATED BY EASEMENT ACREEMENT RECORDED JULY 12, 1983 AS DOCUMENT 26684378 FOR THE PURPOSE OF ACCESS OVER THE SOUTH 17.5 FEET OF THE WEST 170 FEET OF LOT 1 (AS MEASURED ALONG THE SOUTH LINE OF SAID LOT 1) IN BILL KNAPP'S RESUBDIVISION ACCORDING TO THE PLAT THEREOF RECORDED JULY 12, 1983 AS DOCUMENT 26683318, IN THE NORTHWEST 1/4 OF SECTION 7, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY LUNDIS

COOK COUNTY, ILLINOIS. PARCEL 3: LOT 3 IN ARLINGTON INDUSTRIAL AND RESEARCH CENTER UNIT 12, BEING A SUBDIVISION IN PART OF THE NORTHWEST 1/4 OF SECTION 7, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED JULY 13, 1978 AS DOCUMENT NO. 24533497, IN COOK COUNTY, ILLINOIS

This map was made from the above legal description which was given to us as a complete description of the property. Both map and description should be compared with
the Abstract of Title or Title Policy for any exceptions, easements or differences in description.

LEGAL DESCRIPTION PROPOSED 10.00' WDE UTILITY EASEMENT

A 20.00 foot wide easement in that part of Lot 2 of Bill Knapp's Resubdivision, being a part of Arlington Industrial & Research Center Unit 12, Lot 4, being a part of the Northwest 1/4 of Section 7. Town 49, Range 9, Cook County, Illinois, the centerline of which is described as; Commencing at a found iron at the northeast corner of said Lot 2; thence South 00700'35' West 259.10 feet along the easterly line of said Lot 2 thence; thence North 89:59'25' West 38.34 feet to a point on the southeasterly face of a 7-story building for THE PLACE OF BEGINNING OF THIS CENTERLINE DESCRIPTION; thence South 00704'34'' East 116.35 feet to the northerly right of way of West Shure Drive (66 feet wide) for the place of ending of this centerline description. The sidelines are to be lengthened and/or shortened to terminate at aforesaid 7-story building and at said northerly right of way.



WEST SHURE DRIVE

(66' WIDE)(PUBLIC)(BITUMINOUS)

	CHICAGO SMSA
	limited partnership
W SHURE RD.	BUFFALO
S CELLULAR DR.	GROVE NORTH LOC. #269303
<u></u>	
N.T.S. LEGEND	
▲ - TRAVERSE POINT 🔤 - AC UNIT ▲ - WELL n - U.G. UTILITY MARKER	Ph: 847/698-6400 Fax: 847/698-6401
- HIGHWAY	Project Manager: Tom Zimmermann
 MONUMENT PIV - POST INDICATOR VALVE MONUMENT BOX WATER VALVE 	REVISIONS NO. DESCRIPTION DATE
■ - RIGHT OF WAY MARKER ③ - GAS VALVE ④ - UST FILL PORT	1 FINALIZE 05/19/20
□ - SET WOODSTAKE = GAS PUMP +OUT - XCUT = GAS METER	2 ADDED TITLEWORK 06/11/20
OPK PK NAIL W - WATER METER	
O - FOUND IRON STAKE T - TELEPHONE RISER O - SET IRON STAKE E - ELECTRIC METER	
- SIGN 🛛 - ELECTRIC TRANSFORMER	
\mathbb{M} - RR SIGN \mathbb{M} - CABLE TV RISER $o \longrightarrow -$ - GUY POLE - CATCH BASIN \longrightarrow - GUY ANCHOR - ROUND CATCH BASIN \rightarrow - UTILITY POLE - UTILITY MANHOLE	williams&works
\rightarrow - GUY ANCHOR \oplus - ROUND CATCH BASIN \rightarrow - UTILITY POLE \bigcirc - UTILITY MANHOLE	engineers surveyors planners
A - LIGHT POLE OF - STORM MANHOLE	549 Ottawa Ave NW Grand Rapids, MI 49503
↓ - U.G. UTILITY MARKER ① - TELEPHONE MANHOLE GRR - GROUND ROD ⑦ - WATER MANHOLE	
المعالم المعالي معالي مع معالي معالي معا معالي معالي معالي معالي معالي	
● – SOIL BORING HIB – MAILBOX → SHRUB	
) - SATELLITE DISH - HAND HOLE - PINE TREE	
	NW NE
	INV INE
	SW SE
	7-42-9
	DATE: 10/29/19 DWG. BY: E.C.V.
	SCALE: 1"=20' SURVEYED: R.P./B.P
All utilities as shown are approximate locations	UPDATE: ECV061120 CHKD BY: S.A.M. PROJECT NO.: 211005.852
derived from actual measurements and available records. They should not be interpreted to be in exact location nor should it be assumed that	SITE NAME
they are the only utilities in the area.	
TEM (2) 10' PUBLIC UTILITY, DRAINAGE & SEWER EASEMENT, PER DOCUMENT NO. 24533499	BUFFALO GROVE NORTH
MILES 035-003984	LOCATION NUMBER
GRAND RAPIDS S MICHIGAN	LOC. #269303
- OF ILL CONTRACTOR	SITE ADDRESS
 I, Samuel A. Miles, do hereby certify that the drawing shown hereon is a correct representation of a survey performed at and under my direction. All dimensions shown are in feet and decimal parts thereof. 	1500 W SHURE DR. Arlington Height, IL 60004
Given under my hand and seal this 11th day of June,	
2020.	SHEET TITLE
Samuel a. Miles	
Samuel A. Miles Illinois Professional Land Surveyor No. 035.003984 Expires November 30, 2020	PS-1
Note: This certification only applies to improvements within the lease site and easements as shown hereon. ILLINOIS REGISTERED DESIGN FIRM UCENSE ENUMBER 184.007034 UCENSE EXPIRES: APRIL 30, 2021	SHEET 1 OF 2

SURVEYOR'S NOTE

THE PARENT PARCEL BOUNDARY OF THIS DRAWING IS ILLUSTRATED FROM RECORD INFORMATION AND IS APPROXIMATE.

THE TOPOGRAPHICAL SURVEY FOR THIS MAP WAS PERFORMED ON OCTOBER 29, 2019.

NOT TO BE USED AS CONSTRUCTION DRAWINGS.

EASEMENTS, COVENANTS, CONDITIONS, AND RESTRICTIONS

THE TITLE COMMITMENT ISSUED BY NEAR NORTH NATIONAL TITLE LLC, ISSUING AGENT FOR CHICAGO TITLE INSURANCE COMPANY, AS COMMITMENT NO. LI309132, DATED SEPTEMBER 17, 2019 LISTS THE FOLLOWING EASEMENTS, COVENANTS, CONDITIONS, AND RESTRICTIONS, THAT ARE MATTERS OF SURVEY, AFFECTING THE PARENT PARCEL UNDER "SCHEDULE B":

12. Memorandum of First Amendment to Site Lease Agreement recorded February 1, 2010 as document 1003203004 made by and between Emergency Service, Inc. and SprintCom, Inc

Note: No Original Memorandum instrument was previously recorded with the County of Cook to memorialize the Agreement. <u>AFFECTS THE SUBJECT PROPERTY:</u> LOCATION CANNOT BE DETERMINED FROM RECORD DOCUMENT.

13. Subordination Agreement - Lease dated July 27, 2017 and recorded October 6, 2017 as document 1727913077 made and executed among Emergency Service, Inc to Sprintcom, Inc; YPI Arlington, LLC and Royal Business Bank. Note: This document refers to 1003203004 the First Amendment to Site Lease Agreement. <u>AFFECTS THE SUBJECT PROPERTY BLANKET IN NATURE.</u>

14. Memorandum of Amendment No 3 to Site Lease Acknowledgement recorded June 15, 2018 as document number 1816649022 made by and between Emergence Radio and SprintCom, Inc. AFFECTS THE SUBJECT PROPERTY BLANKET IN NATURE.

16. Unrecorded lease made by One North Arlington, LLC in favor of Amcol International Corporation, fka American Colloid Company, dated September 29, 1986, demising a portion of the land, and all rights thereunder of the lessee and of any parson or party claiming by, through or under said lessee. <u>DOCUMENT NOT PROVIDED</u>.

17. Unrecorded lease made by One North Arlington, LLC, in favor of State Farm Automobile insurance company, dated December 31, 2003. DOCUMENT NOT PROVIDED.

18. Lease made by Emergency Service, Inc.., an Indiana corporation to Sprintcom, Inc., A Kansas corporation, dated October 21, 1998, a Memorandum of First Amendment to site lease acknowledgement which was recorded February 1, 2010 as document No. 1003203004, demising a portion of the land, which amendment extends the terms of the agreement for five years commencing November 1, 2008, with one additional 5 year renewal option, and all rights thereunder of, and all acts done or suffered thereunder Dustant ACTIONT DUE

lessee or by any party claiming by, through, or under said lessee. <u>AFFECTS THE</u> SUBJECT PROPERTY: LOCATION CANNOT BE DETERMINED FROM RECORD DOCUMENT.

19. Right, title and interest of Emergency Service, Inc., an Indiana corporation, in and to the land, as disclosed by their execution of the Memorandum of First Amendment to site lease acknowledgement recorded as document 1003203004, noted above, and of all parties claiming thereunder. <u>AFFECTS THE SUBJECT</u> <u>PROPERTY: LOCATION CANNOT BE DETERMINED FROM RECORD DOCUMENT.</u>

20. Note: the following item, while appearing on this commitment, is provided solely for your information. Assignment of parking agreement recorded June 22, 1988 as document 88272894 made by and between American National Bank and Trust Company, as trustee under trust number 62164 and North Arlington Towers Partnership relating to 17 parking spaces referred in in the parking agreement letter dated April 27, 1987 from Bill Knapp to Richard H. Levy for the use of Ronald J.. Benach, as agent. <u>BENEFITS THE SUBJECT PROPERTY WITH 17 PARKING SPACES ON LOT 1: LOCATION CANNOT BE DETERMINED FROM THE RECORD</u>

21. Reciprocal easement for an access road as set forth in the easement Agreement executed by and between LaSalle National Bank, as trustee under trust agreement dated August 24, 1977 known as trust number 53022 and Dundee Wilke Venture, an Illinois general partnership (beneficiary) and Bill Knapp's Properties, Inc., a Michigan corporation, recorded July 12, 1983 as document 26684378, and the terms and provisions relating thereto. Rights of the adjoinin owner or owners to the concurrent use of said easement. (Easement is 35 feet in even width, the centerline of which is described as Follows: beginning at the intersection of the a line common to lots 1 and 2 in Bill Knapp's Resubdivision, with the west line of said subdivision and running thence easterly along said common line, a distance of 170 feet to a point of termination. Said easement to intersect the west line of soid subdivision) <u>AFFECTS THE SUBJECT PROPERTY AS</u> SHOWN; SAME AS PARCEL 2.

22. Note: the following item, while appearing on this commitment/policy, is provided solely for your information. the following environmental disclosure document(s) for transfer of real property appear of record which include a description of the land insured or a part thereof: Document number: 90344744 date of recording: July 18, 1990 Document number: 90344745 recorded on July 18, 1990 Document number: 0010341579 recorded on April 26, 2001 AFFECTS THE SUBJECT PROPERTY BLANKET IN NATURE.

23. Easement in favor of the Illinois Bell Telephone Company and the Commonwealth Edison Company, and their respective successors and assigns, to install, operate and maintain all equipment necessary for the purpose of serving the land of other property, together with the right of access to sold equipment, and the provisions relating thereto contained in the grant recorded/filed as document no.85167550, affecting the north line of lot 2 as shown on Exhibit A attached. <u>AFFECTS THE SUBJECT PROPERTY AS SHOWN.</u>

24. Order establishing freeway and route location decision, both recorded Augus 29, 1962 as documents 18576703 and 18576704, respectively, purporting to give notice by the Department of Public Works and Buildings, Division of Highways, State of Illinois, of the intent of said body to establish a freeway on, over, across or contiguous to the land in a manner which will permit access between said freeway and abutting lands only at entrances provided for said purposes. (Affects underlying) AFFECTS THE SUBJECT PROPERTY.

25. We have examined the plat of Bill Knapp's Resubdivision, being a Resubdivision of Lot 4 in Arlington Industrial and Research Center Unit 12, being a subdivision in part of the northwest 1/4 of Section 7. Township 42 North, Range 11 East of the Third Principal Meridian, according to the plat therefore recorded July 13, 1978 as document 24533497, relative thereto, we note the following: (A) Easement over the land in favor of Northern Illinois Gas Company, its successors and assigns, for the installation, maintenance, relocation, renewa removal of gas mains and appurtenances thereto, as shown on the plat of resubdivision aforesaid recorded July 12, 1983 as document 26683318. (B) Easement over the land for the purpose of installing and maintaining all equipment necessary for the purpose of serving the subdivision and other land with telephone and electric service, together with right to overhang aerial service wires and also with right of access thereto, as granted to the the Illinois Bell Telephone Company, the Commonwealth Edison Company and Cablenet and as shown on the plat of resubdivision recorded July 12, 1983 as document 26683318.

-R=?

CONTINUED

(C) Reservation and grant of a non-exclusive access right to the Village of Arlington Heights and their respective successors and assigns for the installation, maintenance, relocation, renewal and removal of manholes, inlets, actch basins, sanitary lines and appurtenances, storm sewer lines and appurtenances, watermains and appurtenances, and all other equipment and appurtenances necessary for the purpose of providing the subdivision and adjoining property with sanitary, storm and water services, over, under and upon the land as shown on the plat of resubdivision aforesaid

(D) Easement over the north 17.5 feet of the west 170 feet, said 170 feet as measured on the north line of lot 2 for ingress and egress, construction, maintenance and upkeep as shown on plat of resubdivision aforesaid and as created by agreement recorded July 12, 1983 as document26684378. (E) Private sanitary sewer easement over the north 50 feet of the east 20 feet

(F) Drainage easement over the land as shown on plat of resubdivision aforesaid.

(Affects that part of lot 2 described as follows: beginning at the point of intersection of southeasterly line of Illinois Route 53 and the northerly line of southeasterly line of Illinois route 53 and the northerly line of Shure Drive being southeasterly line of himois route 33 and the northery line of shure bring being the point of beginning of this description; thence northeasterly along the southeasterly line of Illinois route 53, 35 feet; thence south to a point on the northerly line of Shure Drive 18.73 feet as measured on the northerly line of Shure Drive, southeasterly of the intersection of the southeasterly line of Illinois Route 53 and the north line of Shure Drive; thence northwesterly along the particulum of the form Drive the particular the particular the southeasterly along the northerly line of Shure Drive to the point of beginning.

(G) Easement to enter upon the land and other property reserved and granted to the Commonwealth Edison Company, the Illinois Bell Telephone Company and Cable Net, Inc, their successors and assigns, with right to cut, trim or remove trees and bushes and roots as may be reasonable required as shown on plat of subdivision

(H) A 20 foot public utilities, sewer and drainage easement as shown on the Plat of resubdivision aforesaid over the east line of lot 2 (Affects Parcel 1) AFFECTS THE SUBJECT PROPERTY AS SHOWN.

26. Easement over the land for the purpose of installing and maintaining all equipment necessary to serve the subdivision and other property with telephone equipment necessary to serve the subalvision and other property with telephone and electric service, together with the right to overhang aerial service wires and the right of access to such wires, as created by grant to the Illinois Bell Telephone Company and the Commonwealth Edison Company and their respective successors and assigns and as shown on plat of Arlington Industrial and Research Center Unit 12 recorded July 13, 1978 as document 24533497 (Affects Parcel 3) AFFECTS THE SUBJECT PROPERTY AS SHOWN.

27. 10 foot public utilities and drainage easement as shown on plat of resubdivision recorded as document 24533497 over west line of lot 3. (Affects Parcel 3) <u>AFFECTS THE SUBJECT PROPERTY AS SHOWN.</u>

CONTINUED

28. Easement to enter upon the land reserved and granted to the Commonwealth Edison Company, the Illinois Bell Telephone Company, Northern Illinois Gas Company, their respective successors and assigns, together with right to cut, trim or remove trees, bushes and roots as may be reasonably required as shown on the Plot of Arlington Industrial and Research Center Unit No. 6 recorded Auaust 22, 1972 as document 22024211. (Affects land underlying Parcel 3) PROVIDED DOCUMENT NOT LEGIBLE

29. Notice requirements for storm water detention recorded March 9, 1977 as document 23844485. <u>AFFECTS THE SUBJECT PROPERTY, BLANKET IN NATURE</u>.

30. 20 foot public utilities, sewer and drainage easement as shown on plat of resubdivision recorded as document 24533497 over the east line of lot 2. (Affects Parcel 1) AFFECTS THE SUBJECT PROPERTY AS SHOWN

31. A 40 foot building line over the south and westerly lines of lot 2 aforesaid and over the south line of lot 3 aforesaid as shown on plats of subdivision recorded as documents 24533497, 22024211 and 23650671 (Affects Parcels 1 and 3) AFFECTS THE SUBJECT PROPERTY AS SHOWN

32. A 20 foot sanitary sewer easement over part of the south line of lot 2 aforesaid and all of the south line of lot 3 aforesaid as shown on plats of subdivision recorded as documents 22024211 and 24533497. (Affects Parcels 1 and 3) <u>AFFECTS THE SUBJECT PROPERTY AS SHOWN</u>

33. A 15 foot sanitary sewer easement over the north 15 feet of lot 3 aforesaid as shown on plats of subdivision recorded as documents $23650671\ \text{and}$ 24533497 (Affects Parcel 3) AFFECTS THE SUBJECT PROPERTY AS SHOWN

34. Covenants, restrictions and agreements contained in unrecorded cross easement agreement and grant of license between Kohl-Fredericks Development Corp, as agent for the owner of property known as 1500 West Shure Drive, Dunhill Partners, owner of property known as 1530 West Shure Drive, and American Colloid Company as licensee. Licensee being a tenant of both properties. Either Kohl or Dunhill may revoke license at any time following 30 days notice. The license will automatically cease and be of no further force or effect with the participation of the second se effect upon the expiration of licensee's lease with either Kohl or Dunhill. DOCUMENT NOT PROVIDED.

35. Memorandum of License dated September 14, 2017 and recorded February 22, 2018 as document number 1805346069 entered into between YPI Arlington LLc and T-Mobile central LLC. <u>AFFECTS THE SUBJECT PROPERTY BLANKET IN NATURE.</u>

CALL CHICAGO DIGGERS HOTLINE 1-312-744-7000 OR JULIE, INC. TOLL FREE 1-800-892-0126

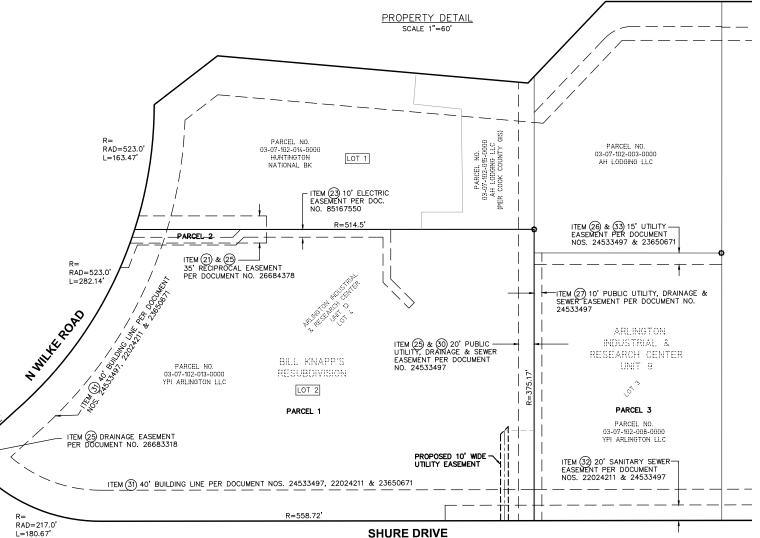
REQUIRES MIN. OF 3 WORK DAYS

 \otimes

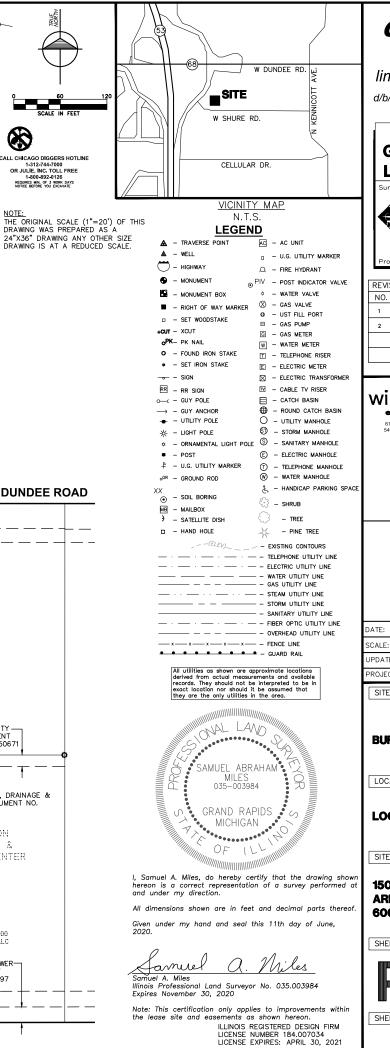
NOTE:

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W DUNDEE ROAD









fuze RFDS

MIDWEST > Upper Midwest > Illinois/Wisconsin > Northern IL > RAND&53_RELO

RF Submit by: Mcdaniel, Jessie - jessie.mcdaniel@verizonwireless.com - 11/8/2023, 7:58:56 AM EE Submit by: Tutt, Bradley - bradley.tutt@verizonwireless.com - 4/14/2023, 11:36:17 AM

Project Details	Location Information
FUZE Project ID: 17073197	Site ID: 617344184
Project Name: TRADITIONAL RELO	E-NodeB ID:
Project Alt Name: RAND&53_RELO LSub6 New Build	MDG Location ID: 5000916957
Project Type: Initial Build	PSLC: 766005
Modification Type:	Switch Name:
Designed Sector Carrier 4G: 26	Tower Owner:
Designed Sector Carrier 5G: 3	Tower Type: Rooftop
Additional Sector Carrier 4G: N/A	Site Type: MACRO
Additional Sector Carrier 5G: N/A	Site Sub Type: TRADITIONAL
FP Solution Type & Tech Type: MCR;4G_700,4G_850,4G_AWS,4G_CBRS,4G_PCS,5G	850,5G_L- Street Address: 1500 W Shure Drive
Sub6	City: Arlington Heights
Carrier Aggregation: false	State: IL
MPT Id:	Zip Code: 60004
eCIP-0: false	County: Cook
Suffix:	Latitude: 42.137539 / 42° 8' 15.1404" N
	Longitude: -88.000764 / 88° 0' 2.7504" W

Added															
700	850	1900	AWS	CBRS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
LTE	LTE 5G	LTE	LTE			COMMSCOPE	NHH-65C-R2B	95	99	50(0001) 50(01)		false	PHYSICAL	2	00000001900056293
LTE	LTE 5G	LTE	LTE			COMMSCOPE	NHH-65C-R2B	96	100	190(0002) 190(02) 310(0003) 310(03)		false	PHYSICAL	4	00000001900056293
				LTE		ERICSSON INC	KRE105281/1	93	93.3	50(19)		false	PHYSICAL	1	1900055217
				LTE		ERICSSON INC	KRE105281/1	94	94.3	190(20) 310(21)		false	PHYSICAL	2	1900055217
					5G	ERICSSON INC	KRD901206/11	97	98.3	50(0001)		false	PHYSICAL	1	1900068484
					5G	ERICSSON INC	KRD901206/11	98	99.3	190(0002) 310(0003)		false	PHYSICAL	2	1900068484
Remove	d														
700	850	1900	AWS	CBRS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
									No	data available.					
Retaine	4														
700	850	1900	AWS	CBRS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
									No	data available.					

Antenna Summary

Added: 12 Removed: 0 Retained: 0

RFDS Project Scope:

									Equipment	Summary				
Added														
Equipment Type	Location	700	850	1900	AWS	CBRS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
RRU	Tower	LTE	LTE 5G					ERICSSON INC	KRC161749/1			PHYSICAL	3	1900068756
RRU	Tower						5G	ERICSSON INC	KRD901206/11			PHYSICAL	3	1900068484
RRU	Tower					LTE		ERICSSON INC	KRC161746/1			PHYSICAL	3	1900068745
RRU	Tower			LTE	LTE			ERICSSON INC	KRC161707/2			PHYSICAL	3	1900068904
Power Plants	Ground (Outdoor)							ABB	109163473			PHYSICAL	6	00000001900436
Power Plants	Ground (Outdoor)							COMMSCOPE	760237263			PHYSICAL	2	00000001900063
Shelter/Cabinets	Ground (Outdoor)							CHARLES INDUSTRIES LTD	760250058			PHYSICAL	1	1900393048
Shelter/Cabinets	Ground (Outdoor)							COMMSCOPE	760250933			PHYSICAL	2	00000001900063
Power Plants	Ground (Outdoor)							ABB POWER ELECTRONICS INCDBA GE ENERGY	760242451			PHYSICAL	1	1900452342
Power Plants	Ground (Outdoor)							ABB POWER ELECTRONICS INCDBA GE ENERGY	760242451			PHYSICAL	1	1900073751
Power Plants	Ground (Outdoor)							ABB POWER ELECTRONICS INCDBA GE ENERGY	760242451			PHYSICAL	2	1900153743
Power Plants	Ground (Outdoor)							ABB POWER ELECTRONICS INCDBA GE ENERGY	760242451			PHYSICAL	1	1900153449
Power Plants	Ground (Outdoor)							ABB POWER ELECTRONICS INCDBA GE ENERGY	760242451			PHYSICAL	1	1900153751
Alarm	Ground (Outdoor)							ASENTRIA	1900070746			PHYSICAL	1	1900070746

ASENTRIA

PAYC

ACENTD

Ericsson

1900076600

3315-ALM-RS485

\$3406CRANCAB1

KDU1370015/11

PHYSICAL 1

PHYSICAL 3

PHYSICAL 1

PHYSICAL 1

PHYSICAL

190007660

1900076812

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0000

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BBU	Ground (Outdoor)							Ericsson	KDU137848/11			PHYSICAL	1	00000001900185
Battery	Ground (Outdoor)							COMMSCOPE	760250540			PHYSICAL	1	00000001900064
Cell Site Routers	Ground (Outdoor)							NOKIAOFAME- 001	3HE15386AA			PHYSICAL	1	00000001900182
Hybrid Cable	Tower							COMMSCOPET- 001	HFT1206-24SV4-xxxG			PHYSICAL	3	
OVP Box	Ground (Outdoor)							RAYCAP	1900410978			PHYSICAL	2	1900410978
OVP Box	Shelter							RAYCAP	3315-ALM-RS485			PHYSICAL	3	00000001900070
OVP Box	Tower							RAYCAPINC-001	RVZDC-3315-PF-48		1-5/8 inch	PHYSICAL	3	00000001900422
OVP Box	Ground (Outdoor)							RAYCAP	RVZDC-4520-RM-48			PHYSICAL	2	00000001900410
Other	Ground (Outdoor)							COMMSCOPE	760246443			PHYSICAL	1	00000001900009
Upconverter	Ground (Outdoor)							JOHNMEZZAL- 002	PB-PSU-COV-BB			PHYSICAL	2	00000001900400
Shelter/Cabinets	Ground (Outdoor)							COMMSCOPE	SK-BSP-STDV-FIU			PHYSICAL	4	00000001900078
Upconverter	Ground (Outdoor)							JOHNMEZZAL- 002	PB-19-SYS-16-BB			PHYSICAL	1	00000001900400
Upconverter	Ground (Outdoor)							JOHNMEZZAL- 002	PB-PSU-162-BB			PHYSICAL	6	00000001900400
Removed														
Equipment Type	Location	700	850	1900	AWS	CBRS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
									No data avi	allable.				
Retained														
Equipment Type	Location	700	850	1900	AWS	CBRS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
									No data ave	alable.				

Ground (Outdoor) Ground (Outdoor)

Tower

Ground (Outdoor)

Ground (Outdoor)

Proprietar

Page 2 of 13

	Service Info			203390 KRE105281/1	21 310	21 310	
		CAND			203390	203390	
Sector	19	19	19	ERICSSON	KRE105281/1	KRE105281/1	
Azimuth	50	50	50	94			
ENode B ID	203390	203390		0 8	ERICSSON 94	ERICSSON 94	
tenna Model	KRE105281/1	KRE105281/1	KRE105281/1		0	94	
					8	0	
denna Make	ERICSSON	ERICSSON	ERICSSON	28.03	94.3	94.3	
anterline(Ft)	93	93	93		28.03	28.03	
m-Tilt(Deg.)	0	0	0	10	55990	55890	
al Down-Tilt	8	8	8	38.44	10	10	
Tip Height atory Power	93.3	93.3	93.3		10		
DLEARFCN	28.03 55790	28.03 56090	28.03	Ericsson	38.44	38.44	
width(MHz)	10	10	10		Ericsson	Ericsson	
otal ERP (W)	38.44	38.44	38.44		4408 B48 DC	4408 B48 DC	
MA Make				15259292	4408 B48 DC 4,4	4408 848 DC 4,4	
TMA Model					4,4	4,4	
RU Make	Ericsson	Ericsson	Ericsson	ATOLL_API	15259289	15259286	
RU Model	4408 B48 DC	4408 B48 DC	4408 B48 DC		ATOLL_API	ATOLL_API	
Lines	4,4	4,4	4,4		ATOLL AN	ALOSE ALL	
sition							
itter Id	15259281	15259290	15259287				
Source	ATOLL_API	ATOLL_API	ATOLL_API				
	19	20	20				
	50	190	190				
	203390	203390	203390				
	KRE105281/1	KRE105281/1	KRE105281/1				
	01220202/2						
	ERICSSON	ERICSSON	ERICSSON				
	93	94					
	0	0					
	8	8	8				
	93.3	94.3	94.3				
	28.03	28.03	28.03				
	55890	55790	56090				
	10	10	10				
		38.44	38.44				
	38.44	30.44	30.44				
	Ericsson	Ericsson	Ericsson				
	4408 B48 DC	4408 B48 DC					
	4,4	4,4	4408 B48 DC 4,4				
	15259284	15259282	15259291				
	ATOLL_API	ATOLL_API	ATOLL_API				
	20	20	21				
	190	190	310				
	203390	203390	203390				
	KRE105281/1	KRE105281/1	KRE105281/1				
	ERICSSON	ERICSSON	ERICSSON				
	94	94	94				
	0	0	0				
	8 94.3	8 94.3	8 94.3				
	94.3 28.03	94.3					
	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				
	15259288	15259285	15259283				
	ATOLL_API	ATOLL_API	ATOLL_API				
	21						
	21 310						
	510						

		CAND	
Sector	01	02	03
	50	190	310
	203390	203390	203390
	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-F
	COMMSCOPE	COMMSCOPE	COMMS
	95	96	
	0	0	0
	4	2	
	99	100	10
	147.76	147.83	147.
	5230	5230	52
	10	10	1
	1329.84	1330.45	13
	Ericsson	Ericsson	Erk
	4449	4449	44
	4,4	4,4	4
	15258617	15258620	15258
	ATOLL API	ATOLL API	ATOL

LTE		CAND	
Sector	01	02	03
Azimuth	50	190	310
Cell / ENode B ID	203390	203390	203390
Antenna Model	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B
Antenna Make	COMMSCOPE	COMMSCOPE	COMMSCOPE
Antenna Centerline(Ft)	95	96	96
Mechanical Down-Tilt(Deg.)	0	0	0
Electrical Down-Tilt	4	2	2
Tip Height	99	100	100
Regulatory Power	382.66	382.66	382.66
DLEARFCN	2561	2561	2561
Channel Bandwidth(MHz)	10	10	10
Total ERP (W) TMA Make	860.99	860.99	860.99
TMA Model			
RRU Make	Ericsson	Ericsson	Ericsson
RRU Model	4449	4449	4449
Number of Tx, Rx Lines	4,4	4,4	4,4
Position			
Transmitter Id	15258614	15258615	15258616
Source	ATOLL_API	ATOLL_API	ATOLL_API
SGNR		CAND	
Sector	0001	0002	0003
Azimuth	50	190	310
Cell / ENode B ID	2039200	2039200	2039200
Antenna Model	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B
Antenna Make	COMMSCOPE	COMMSCOPE	COMMSCOPE
Antenna Centerline(Ft)	COMMSCOPE 95	COMMSCOPE 96	COMMSCOPE 96
Antenna Centerline(Ft)			
	95 0 4	96 0 2	96 0 2
Antenna Centerline(Ft) Mechanical Down-TilltDpg) Eliotteal Down-Till Tip Height	95 0 4 99	96 0 2 100	96 0 2 100
Antenna Centerline(FR) Mechanical Down-Titt Electrical Down-Titt Titt Height Regulatory Power	95 0 4 99 382.66	96 0 2 100 382.66	96 0 2 100 382.66
Antenna Centerline(Ft) Mechanical Down-TilltDpg) Eliotteal Down-Till Tip Height	95 0 4 99	96 0 2 100	96 0 2 100
Antenna Carkerling?) Mechanica Down TRID(bg.) Exectfail Down TRI Regulatory Power DELARFCN Channel BuckAFCN	95 0 4 99 382.66 2561 10	96 0 2 100 382.66 2561 10	96 0 2 100 382.66 2561 10
Antenna CantellinkiP) Machaida Deva TRIDugi D Barkov Talban Regulatory Perer SALAMPEN I Chand of Call Call PP (m)	95 0 4 99 382.66 2561	96 0 2 100 382.66 2561	96 0 2 100 382.66 2561
Antenna Cantelline(FI) Machanical Down 7(1) Bastatical Down 7(1) Regulated Down 7(1) Regulator Priver OLEARFOI Channal Encode(Mith) Trada CEP (9) Toda CEP (9) The Machania	95 0 9 32,266 2561 10 860,99	96 0 2 100 382.66 2561 10 860.99	96 0 2 100 382.66 2561 10 860.99
Antenna Canton (Int/P) Machaida (Den Tit/Pa) Barrow Tit/Pa) Regulatory Preser Control Execution (Internet Control Execution (Internet Tita Mate Tita Mate	95 0 9 302.64 2256 860.99 Ericsson	96 0 2 100 382,66 2561 10 860.99	96 0 2 100 382.66 2561 10 860.99 Ericsson
Antenna Cantolina(P) Machada Cantolina(P) To Haght To Haght RockLancer Channel Bandonish(R) That Antonish(R) That Antonish Fight Safet Fight Safet	95 0 0 3 2561 2561 30 860.99 EProcess	96 0 2 100 382,66 2561 10 860.99 Eficson 449	96 0 2 100 382.66 2561 0 860.99 Ericsson 4449
Actenue Cantelline(FI) Mechanical Deven (ER) Backton: Tat Height Regulatory Power DELEARFOI Channel Emotechnology of Touristic (ER) Tat Alakie Thi Alakie Thi Alakie Mithada Roll Mada	95 0 9 302.64 2256 860.99 Ericsson	96 0 2 100 382,66 2561 10 860.99	96 0 2 100 382.66 2561 10 860.99 Ericsson
Antenna Cantolina(P) Machada Cantolina(P) To Haght To Haght RockLancer Channel Bandonish(R) That Antonish(R) That Antonish Fight Safet Fight Safet	95 0 0 3 2561 2561 30 860.99 EProcess	96 0 2 100 382,66 2561 10 860.99 Eficson 449	96 0 2 100 382.66 2561 0 860.99 Ericsson 4449

		03
50	190	310
203390	203390	203390
NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B
COMMSCOPE	COMMSCOPE	COMMSCOPE
95	95	96
	0	0
2	i	2
99	100	100
		719.1
925	925	925
5	5	5
1972.42	1972.42	1972.42
Ericsson	Ericsson	Ericsson
8843	8843	8843
4.4	4.4	4,4
15258618	15258621	15258624
ATOLL_API	ATOLL_API	ATOLL_API
	CAND	
01	02	03
50	190	310
203390	203390	203390
NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B
COMMSCOPE	COMMSCOPE	COMMSCOPE
		96
0	0	0
2	i	2
99	100	100
		228.31
2050	2050	2050
20	20	20
2504.96	2504.96	2504.96
Ericsson	Ericsson	Ericsson
		8843
4,4	4,4	4,4
15258619	15258622	15258625
	99 0 2 99 102 123 5 1072.43 Eccasion 44 44 15355818 ATOLL,AN 9 107 107 107 107 107 107 107 107	30 30 301390 301390 301390 301390 301390 301390 301390 301390 301390 0 9 0 99 100 1133 1131 133 1132 133 1132 133 1132 133 1132 133 1132 134 13240 1353618 1553621 1353618 1553621 44.4 844 1353638 30339 20330 20330 20330 20330 20330 20330 20330 20330 20330 20330 20330 20330 20330 20330 20330 20330 20330 20330 20330 20330 20330 20330 20330 20330 20330 2030

b6		CAND	
Sector	0001	0002	0003
Azimuth	50	190	310
Cell / ENode B ID			
Antenna Model	AIR6449	AIR6449	AJR644
Antenna Make	Ericsson	Ericsson	Ericsson
Antenna Centerline(Ft)	97	98	98
Mechanical Down-Tilt(Deg.)	0	0	0
Electrical Down-Tilt	6	6	6
Tip Height	98.3	99.3	99.3
Regulatory Power	1365.07	1365.07	1365.07
EARFCN	648672	648672	648672
dwidth(MHz)	60	60	60
tal ERP (W)	23713.74	23713.74	23713.74
TMA Make			
A Model			
IU Make	Ericsson	Ericsson	Ericsson
RRU Model	AJR6449	AIR6449	AJR6449
nber of Tx, Rx Lines	2,2	2,2	2,2
Position			
Transmitter Id	15258626	15258627	1525862
Source	ATOLL API	ATOLL API	ATOLL A

Callsigns Per Antenna

						ansiy	iis rei	r Antenna											
Sector	Antenna Make	Antenna Model	Ant CL	Тір	Azimuth	Elec	Mech	Gain	Beam	Regulatory	Callsigns								
			Height AGL	Height	(TN)	Tilt	Tilt		Width	Power	700	850	1900	2100	28 GHz	31 GHz	39 GH		
0001	COMMSCOPE	NHH-65C-R2B	95	99	50	4	0	13.651	58.75	382.66 - PSD		KNKA200							
01	COMMSCOPE	NHH-65C-R2B	95	99	50	2	0	16.280001	65.25	228.31				WQGA952 WQGB264					
01	COMMSCOPE	NHH-65C-R2B	95	99	50	4	0	13.948	64.75	147.76	WQJQ691								
19	ERICSSON	KRE105281/1	93	93.3	50	8	0	8.848	62	28.03									
20	ERICSSON	KRE105281/1	94	94.3	190	8	0	8.848	62	28.03									
01	COMMSCOPE	NHH-65C-R2B	95	99	50	2	0	15.65	68.75	719.1			KNLF207						
01	COMMSCOPE	NHH-65C-R2B	95	99	50	4	0	13.651	58.75	382.66 - PSD		KNKA200							
03	COMMSCOPE	NHH-65C-R2B	96	100	310	2	0	13.495	58.5	382.66 - PSD		KNKA200							
19	ERICSSON	KRE105281/1	93	93.3	50	8	0	8.848	62	28.03									
19	ERICSSON	KRE105281/1	93	93.3	50	8	0	8.848	62	28.03									
0002	Ericsson	AIR6449	98	99.3	190	6	0	22.95	95	1365.07									
0002	COMMSCOPE	NHH-65C-R2B	96	100	190	2	0	13.495	58.5	382.66 - PSD		KNKA200							
20	ERICSSON	KRE105281/1	94	94.3	190	8	0	8.848	62	28.03									
0003	Ericsson	AIR6449	98	99.3	310	6	0	22.95	95	1365.07									
02	COMMSCOPE	NHH-65C-R2B	96	100	190	2	0	13.495	58.5	382.66 - PSD		KNKA200							
03	COMMSCOPE	NHH-65C-R2B	96	100	310	2	0	13.909	65.25	147.83	WQJQ691								
21	ERICSSON	KRE105281/1	94	94.3	310	8	0	8.848	62	28.03									
03	COMMSCOPE	NHH-65C-R2B	96	100	310	2	0	15.65	68.75	719.1			KNLF207						
21	ERICSSON	KRE105281/1	94	94.3	310	8	0	8.848	62	28.03									
21	ERICSSON	KRE105281/1	94	94.3	310	8	0	8.848	62	28.03									
0001	Ericsson	AIR6449	97	98.3	50	6	0	22.95	95	1365.07									
02	COMMSCOPE	NHH-65C-R2B	96	100	190	1	0	15.65	67.75	719.1			KNLF207						
03	COMMSCOPE	NHH-65C-R2B	96	100	310	2	0	16.280001	65.25	228.31				WQGA952 WQGB264					
02	COMMSCOPE	NHH-65C-R2B	96	100	190	2	0	13.909	65.25	147.83	WQJQ691								
0003	COMMSCOPE	NHH-65C-R2B	96	100	310	2	0	13.495	58.5	382.66 - PSD		KNKA200							
02	COMMSCOPE	NHH-65C-R2B	96	100	190	1	0	16.21	65.25	228.31				WQGA952 WQGB264					
19	ERICSSON	KRE105281/1	93	93.3	50	8	0	8.848	62	28.03									
20	ERICSSON	KRE105281/1	94	94.3	190	8	0	8.848	62	28.03									
20	ERICSSON	KRE105281/1	94	94.3	190	8	0	8.848	62	28.03									
21	ERICSSON	KRE105281/1	94	94.3	310	8	0	8.848	62	28.03									

										Callsigns									
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	Approved for Insvc
WRLD570	D17031 - Cook, IL	PL	D17031	0	17031	Cook	Verizon Wireless Network Procurement LP	Yes	100.000	3550.000- 3650.000	.000000	.000000	.000000	28.03	501	5580.63	Active	added	Yes
WQJQ691	Great Lakes	wu	REA003	с	17031	Cook	Cellco Partnership	Yes	22.000	746.000- 757.000	776.000- 787.000	.000000	.000000	147.83	1000	5580.63	Active	added	Yes
WRNE596	Chicago, IL	РМ	PEA003	Al	17031	Cook	Cellco Partnership	Yes	20.000	3700.000- 3720.000	.000000	.000000	.000000	868.59	1640	5580.63	Active	added	Yes
WRHD633	Chicago, IL	υu	PEA003	M2	17031	Cook	Celico Partnership	Yes	100.000	37700.000- 37800.000	.000000	.000000	.000000		0	5580.63	Active		Yes
WRHD638	Chicago, IL	υu	PEA003	M7	17031	Cook	Celico Partnership	Yes	100.000	38200.000- 38300.000	.000000	.000000	.000000		0	5580.63	Active		Yes
CBRS_CALL	UNLICENSED	3.5 GHz	UNLICE	UNLIC	UNLIC	Cook	UNLICENSED	UNLIC	UNLICEN	UNLICENSED- UNLICENSED	UNLICENSED- UNLICENSED	UNLICENSED- UNLICENSED	UNLICENSED- UNLICENSED	28.03	0	5580.63	Active	added	No
WRNE597	Chicago, IL	РМ	PEA003	A2	17031	Cook	Cellco Partnership	Yes	20.000	3720.000- 3740.000	.000000	.000000	.000000	868.59	1640	5580.63	Active	added	Yes
WRHD636	Chicago, IL	υu	PEA003	M5	17031	Cook	Celico Partnership	Yes	100.000	38000.000+ 38100.000	.000000	.000000	.000000		0	5580.63	Active		Yes
WRNE598	Chicago, IL	РМ	PEA003	A3	17031	Cook	Cellco Partnership	Yes	20.000	3740.000- 3760.000	.000000	.000000	.000000	868.59	1640	5580.63	Active	added	Yes
WRHD637	Chicago, IL	υu	PEA003	MG	17031	Cook	Celico Partnership	Yes	100.000	38100.000- 38200.000	.000000	.000000	.000000		0	5580.63	Active		Yes
WRNE602	Chicago, IL	РМ	PEA003	82	17031	Cook	Cellco Partnership	Yes	20.000	3820.000- 3840.000	.000000	.000000	.000000	369.01	1640	5580.63	Active	added	Yes
WRHD639	Chicago, IL	υυ	PEA003	M8	17031	Cook	Celico Partnership	Yes	100.000	38300.000- 38400.000	.000000	.000000	.000000		0	5580.63	Active		Yes
WQGB264	Chicago, IL	AW	СМА003	A	17031	Cook	Cellco Partnership	Yes	20.000	1710.000- 1720.000	2110.000- 2120.000	.000000	.000000	228.31	1640	5580.63	Active	added	Yes
KNLF207	Chicago	cw	MTA003	в	17031	Cook	Cellco Partnership	Yes	10.000	1880.000- 1885.000	1960.000- 1965.000	.000000	.000000	681.25	1640	5580.63	Active	added	Yes
WRLD569	D17031 - Cook, IL	PL	D17031	0	17031	Cook	Verizon Wireless Network Procurement LP	Yes	100.000	3550.000- 3650.000	.000000	.000000	.000000	28.03	501	5580.63	Active	added	Yes
WRHD634	Chicago, IL	υυ	PEA003	МЗ	17031	Cook	Celico Partnership	Yes	100.000	37800.000- 37900.000	.000000	.000000	.000000		0	5580.63	Active		Yes
WRLD571	D17031 - Cook, IL	PL	D17031	0	17031	Cook	Verizon Wireless Network Procurement LP	Yes	100.000	3550.000- 3650.000	.000000	.000000	.000000	28.03	501	5580.63	Active	added	Yes
WRNE603	Chicago, IL	РМ	PEA003	83	17031	Cook	Cellco Partnership	Yes	20.000	3840.000- 3860.000	.000000	.000000	.000000	369.01	1640	5580.63	Active	added	Yes
WRLD572	D17031 - Cook, IL	PL	D17031	0	17031	Cook	Verizon Wireless Network Procurement LP	Yes	100.000	3550.000+ 3650.000	.000000	.000000	.000000	28.03	501	5580.63	Active	added	Yes
WRNE600	Chicago, IL	РМ	PEA003	A5	17031	Cook	Cellco Partnership	Yes	20.000	3780.000+ 3800.000	.000000	.000000	.000000	868.59	1640	5580.63	Active	added	Yes

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WQGA952	Chicago-Gary- Kenosha, IL-IN-WI	AW	BEA064	в	17031	Cook	Cellco Partnership	Yes	20.000	1720.000- 1730.000	2120.000- 2130.000	.000000	.000000	228.31	1640	5580.63	Active	added	Yes
WRHD631	Chicago, IL	υυ	PEA003	M1	17031	Cook	Cellco Partnership	Yes	100.000	37600.000- 37700.000	.000000	.000000	.000000		0	5580.63	Active		Yes
WRBA756	Chicago, IL	υu	BTA078	L1	17031	Cook	Celico Partnership	Yes	75.000	27850.000- 27925.000	.000000	.000000	.000000		0	5580.63	Active		Yes
КNКА200	Chicago, IL	CL	CMA003	в	17031	Cook	Chicago SMSA LP	No	25.000	835.000- 845.000	880.000- 890.000	846.500- 849.000	891.500- 894.000	382.66 - PSD	400	5580.63	Active	added	Yes
WRBA757	Chicago, IL	υυ	BTA078	L2	17031	Cook	Cellco Partnership	Yes	125.000	27925.000- 28050.000	.000000	.000000	.000000		0	5580.63	Active		Yes
WRHD632	Chicago, IL	υu	PEA003	M10	17031	Cook	Celico Partnership	Yes	100.000	38500.000- 38600.000	.000000	.000000	.000000		0	5580.63	Active		Yes
WRHD640	Chicago, IL	υυ	PEA003	M9	17031	Cook	Celico Partnership	Yes	100.000	38400.000- 38500.000	.000000	.000000	.000000		0	5580.63	Active		Yes
WRHD635	Chicago, IL	υυ	PEA003	M4	17031	Cook	Cellco Partnership	Yes	100.000	37900.000- 38000.000	.000000	.000000	.000000		0	5580.63	Active		Yes
WRNE599	Chicago, IL	РМ	PEA003	A4	17031	Cook	Cellco Partnership	Yes	20.000	3760.000+ 3780.000	.000000	.000000	.000000	868.59	1640	5580.63	Active	added	Yes
WRNE601	Chicago, IL	РМ	PEA003	B1	17031	Cook	Cellco Partnership	Yes	20.000	3800.000- 3820.000	.000000	.000000	.000000	369.01	1640	5580.63	Active	added	Yes

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