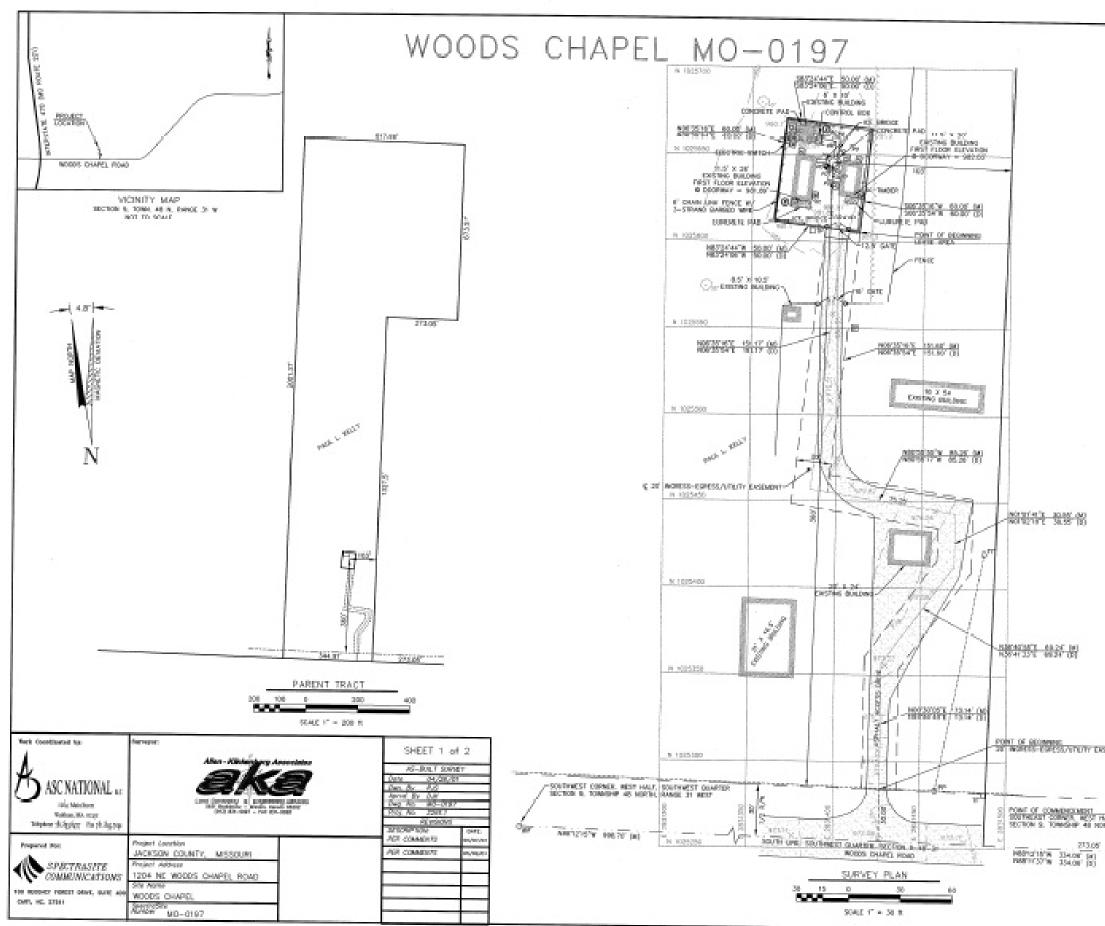
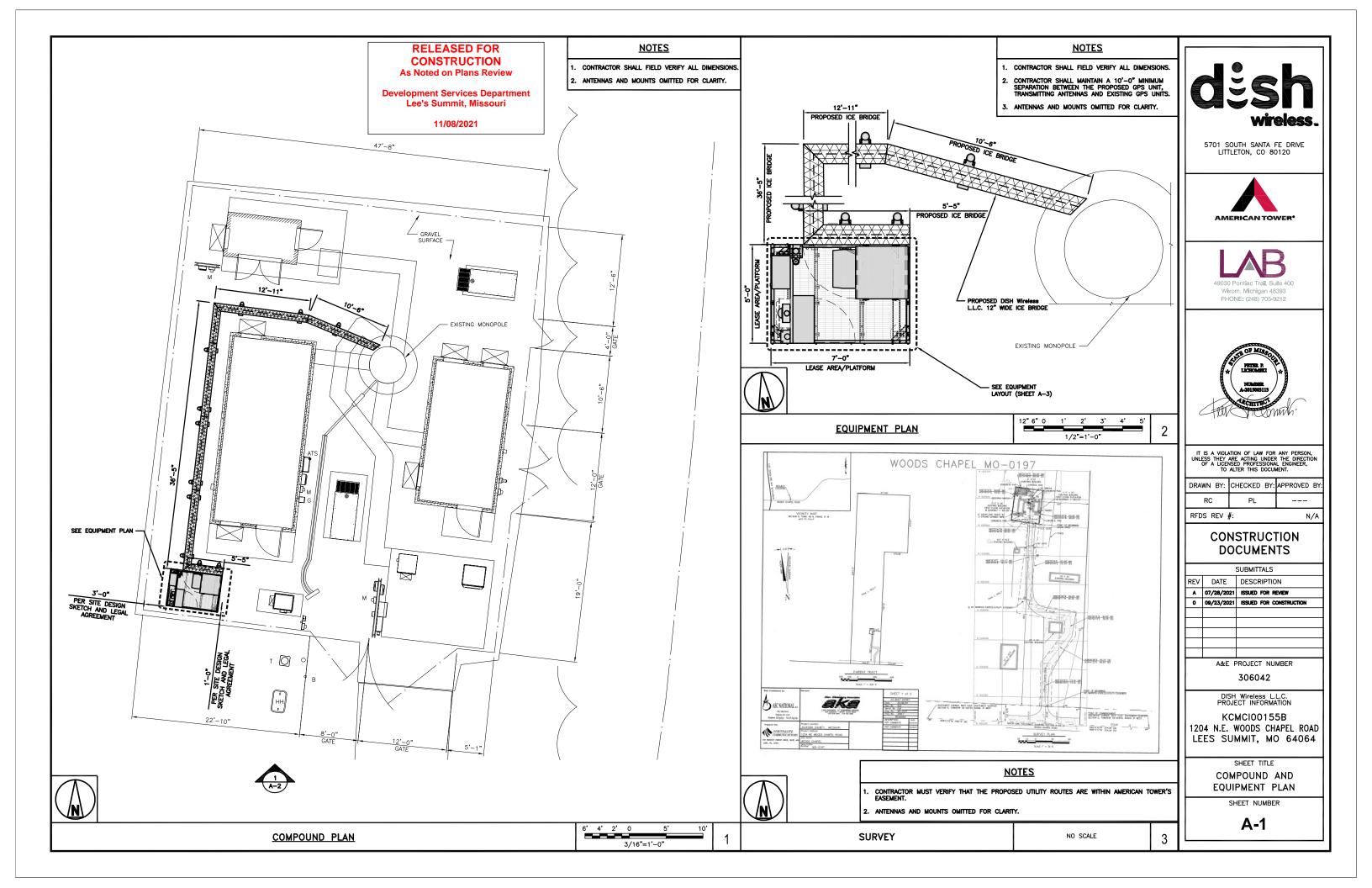
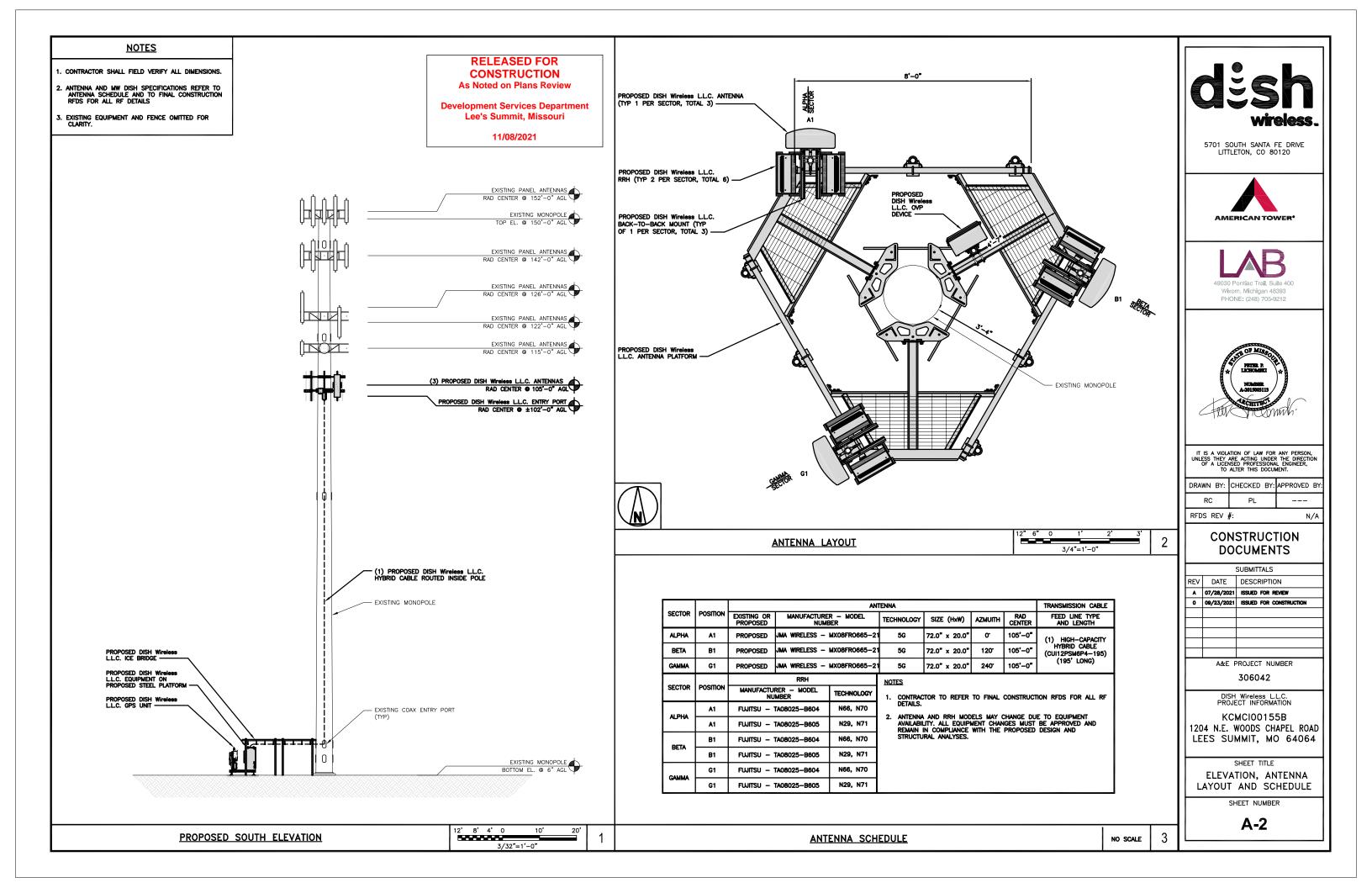
	RELEASED FOR CONSTRUCTION	SITE INF	ORMATION	
	As Noted on Plans Review Development Services Department	PROPERTY OWNER: ADDRESS:	PAUL L KELLEY TRUST 1204 N.E. WOODS CHAPEL ROAD LEES SUMMIT — MO — 64064	
	Lee's Summit, Missouri	TOWER TYPE:	MONOPOLE	тоw
	11/08/2021	TOWER CO SITE ID:	306042	
	SCOPE OF WORK	TOWER APP NUMBER:	13683130_D2	SITE
	THIS IS NOT AN ALL INCLUSIVE LIST. CONTRACTOR SHALL UTILIZE SPECIFIED EQUIPMENT PART OR ENGINEER APPROVED EQUIVALENT. CONTRACTOR SHALL VERIFY ALL NEEDED EQUIPMENT TO PROVIDE A FUNCTIONAL SITE.	COUNTY:	JACKSON	
wireless	THE PROVED EQUIVALENT. CONTRACTOR STALL VENT ALL NEEDED EQUIPMENT TO PROVIDE A FUNCTIONAL STE. THE PROVECT GENERALLY CONTRACTOR STALL VENT ALL NEEDED EQUIPMENT TO PROVIDE A FUNCTIONAL STE. TOWER SCOPE OF WORK:	LATITUDE (NAD 83):	38 58 59.570 N 38.98321389	
	INSTALL (3) PROPOSED PANEL ANTENNAS (1 PER SECTOR) INSTALL (1) PROPOSED ANTENNA PLATFORM INSTALL PROPOSED JUMPERS	LONGITUDE (NAD 83):	94 [•] 21 [°] 0.230 [°] W -94.35006389	
DISH Wireless L.L.C. SITE ID:	INSTALL (6) PROPOSED RRUS (2 PER SECTOR) INSTALL (1) PROPOSED OVER VOLTAGE PROTECTION DEVICE (OVP) INSTALL (1) PROPOSED HYBRID CABLE	ZONING JURISDICTION:	PRAIRIE, MISSOURI CITY OF LEE'S SUMMIT	SITE
KCMCI00155B	GROUND SCOPE OF WORK: • INSTALL (1) PROPOSED METAL PLATFORM	PARCEL NUMBER:	43-600-03-11-00-0-00-000	
DISH Wireless L.L.C. SITE ADDRESS:	INSTALL (1) PROPOSED ICE BRIDGE INSTALL (1) PROPOSED PPC CABINET INSTALL (1) PROPOSED EQUIPMENT CABINET	OCCUPANCY GROUP:	U	CON
1204 N.E. WOODS CHAPEL ROAD	INSTALL (1) PROPOSED POWER CONDUIT INSTALL (1) PROPOSED TELCO CONDUIT INSTALL (1) PROPOSED TELCO-FIBER BOX	CONSTRUCTION TYPE:	II—В	RF
LEES SUMMIT, MO 64064	INSTALL (1) PROPOSED GPS UNIT INSTALL (1) PROPOSED GPS UNIT INSTALL (1) PROPOSED SAFETY SWITCH (IF REQUIRED) INSTALL (1) PROPOSED FIBER NID (IF REQUIRED)	POWER COMPANY:	KANSAS CITY POWER & LIGHT	r
	INSTALL (1) PROPOSED METER SOCKET	TELEPHONE COMPANY:	AT&T	
MISSOURI - CODE OF COMPLIANCE	SITE PHOTO]	DIREC	
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES			LEE'S SUMMIT MUNICIPAL VARD NE DOUGLAS ST, BEAR	
MECHANICAL 2018 IMC ELECTRICAL 2017 NEC		I-470 N / MO-291 N TOWARD FLEMING PARK TURN LEFT ONTO NE L	NORTH AND HEAD TOWARD IN , AT EXIT 12, HEAD RIGHT C , TURN RIGHT ONTO NE WOO AKEWOOD WAY, KEEP STRAIG CHAPEL ROAD LEES SUMMIT,	on the ODS CH/ Ght to
SHEET INDEX			VICINI	TY M
SHEET NO. SHEET TITLE	And there and the second second	29	100-00	-
T-1 TITLE SHEET		1	169	
A-0 PARCEL PLAN A-1 COMPOUND AND EQUIPMENT PLAN		May	69 Liberty	
A-2 ELEVATION, ANTENNA LAYOUT AND SCHEDULE A-3 EQUIPMENT PLATFORM AND H-FRAME DETAILS			Gladstone	21
A-4 EQUIPMENT DETAILS A-5 EQUIPMENT DETAILS		9		
A-6 EQUIPMENT DETAILS	MISSOURI ONE CALL SYSTEM		IE CAL	-
E-1 ELECTRICAL/FIBER ROUTE PLAN AND NOTES E-2 ELECTRICAL DETAILS	UTILITY NOTIFICATION CENTER OF MISSOURI (800) 344-7483 WWW.MO1CALL.COM		Isas City Blue	1
E-3 ELECTRICAL ONE-LINE, FAULT CALCS & PANEL SCHEDULE	CALL 2 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION		291	
G-1 GROUNDING PLANS AND NOTES G-2 GROUNDING DETAILS G-3 GROUNDING DETAILS	GENERAL NOTES	33 Shawnee Prairie Village	Raytown	Blue
RF-1 RF CABLE COLOR CODE	THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON	Overland Park Lenexa	100	
GN-1 LEGEND AND ABBREVIATIONS	FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE. NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.	Leawood		
GN-2 GENERAL NOTES GN-3 GENERAL NOTES	THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL		Grandview	
GN-4 GENERAL NOTES	COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).		Belton	e.V.
	11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED		Raymore	Pleasant
	CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON THE JOB SITE, AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.		40	T.
		NO SCALE		

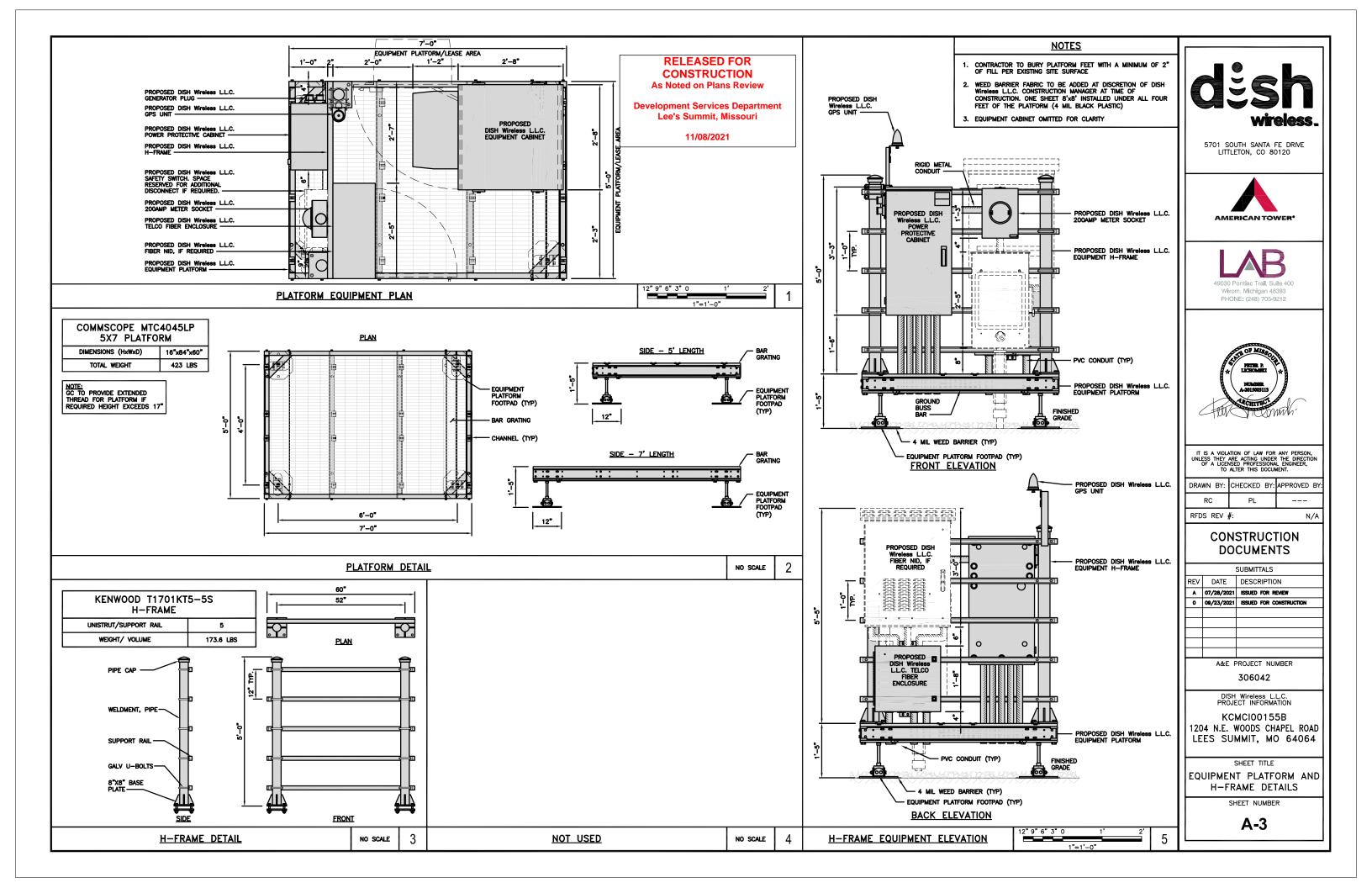


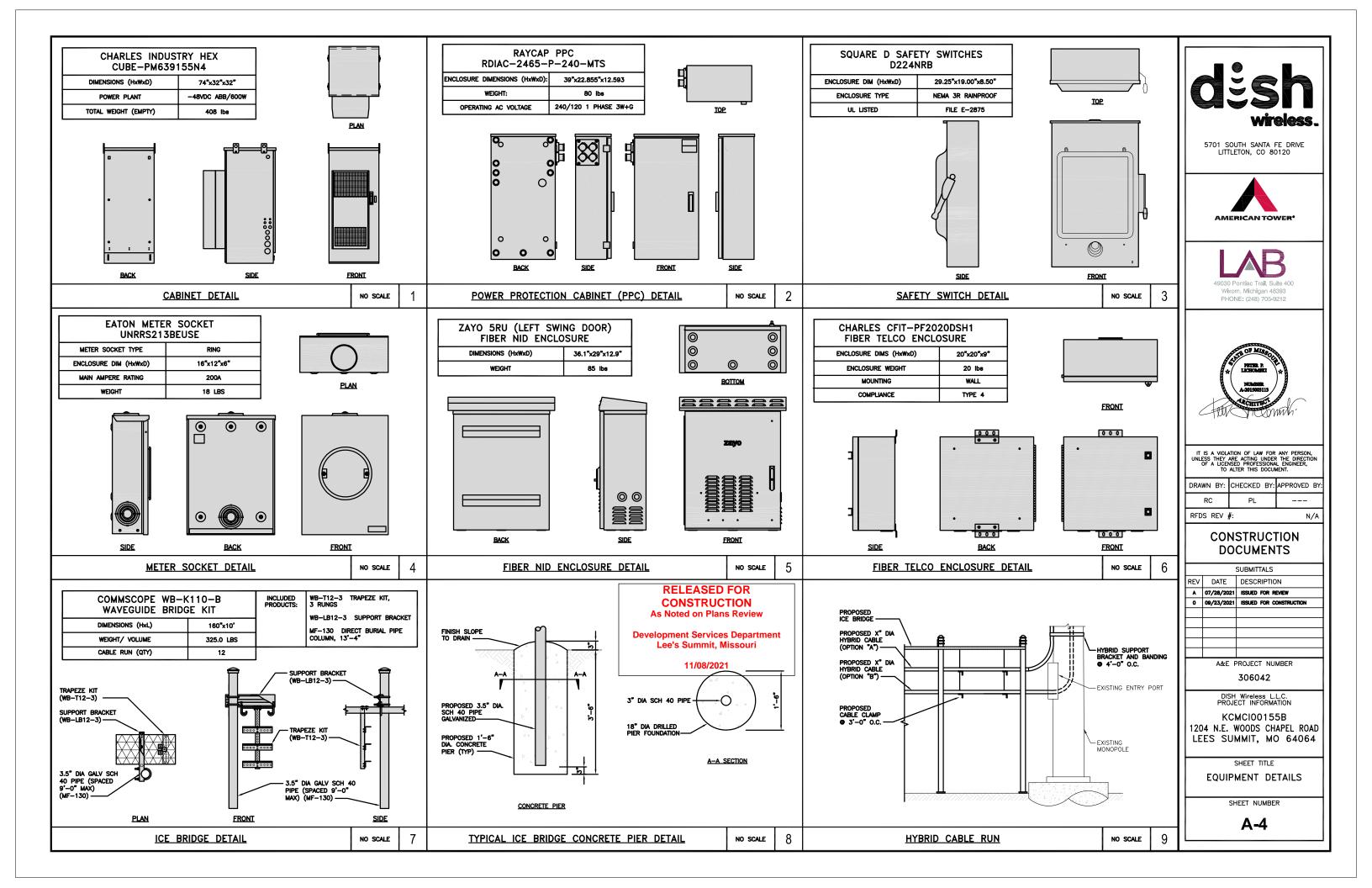


	RELEASED FOR CONSTRUCTION As Noted on Plans Review Development Services Department Lee's Summit, Missouri
	11/08/2021
8097	
7. SOUTHWEST CLIMPTON	
A. BANKE 31 MEST	
-V	SHEET TITLE
	PARCEL PLAN
	SHEET NUMBER

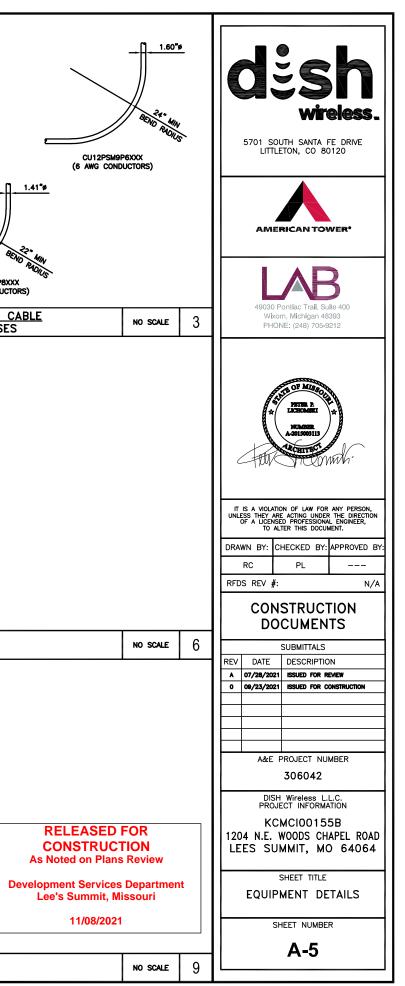


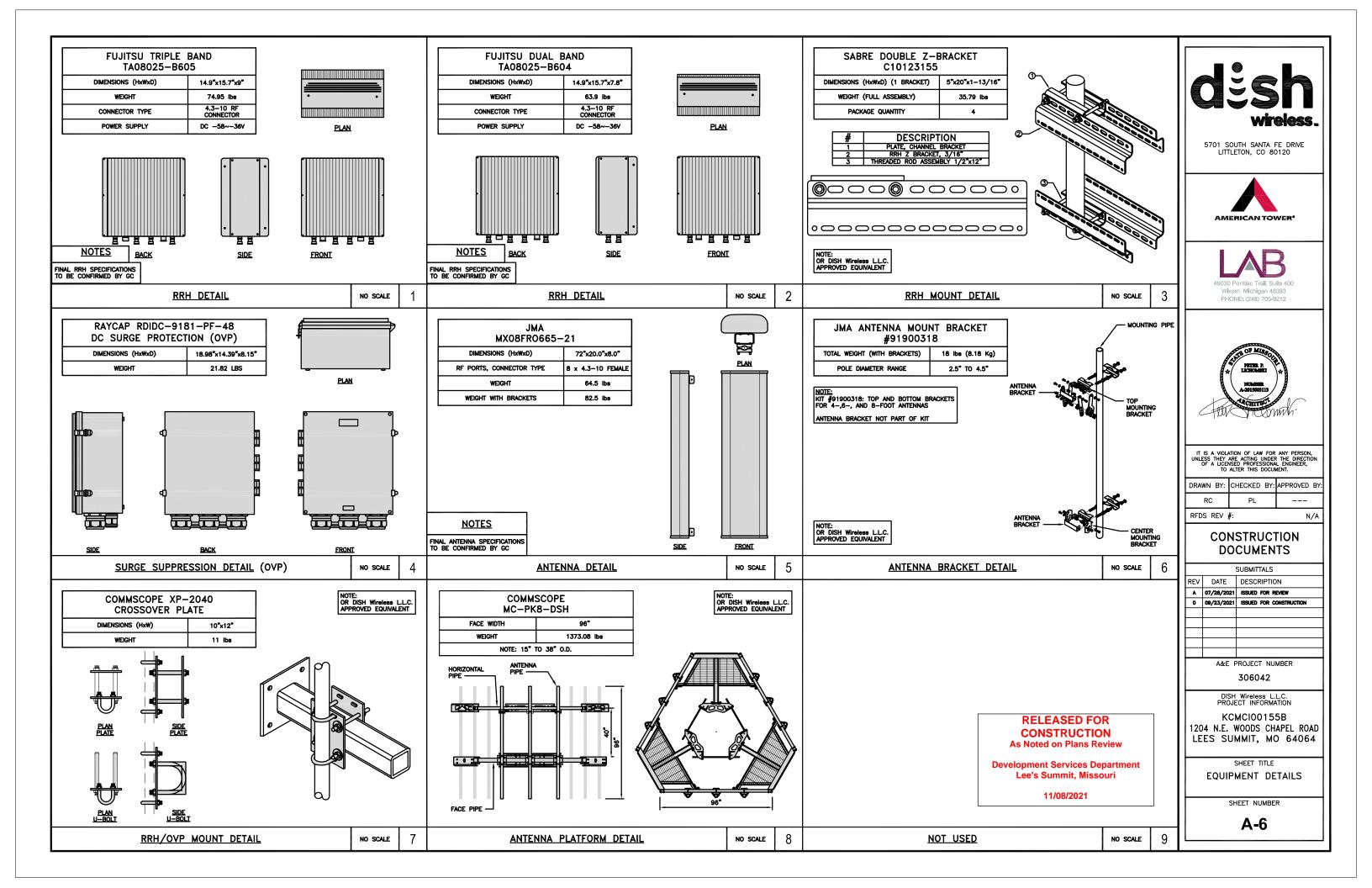


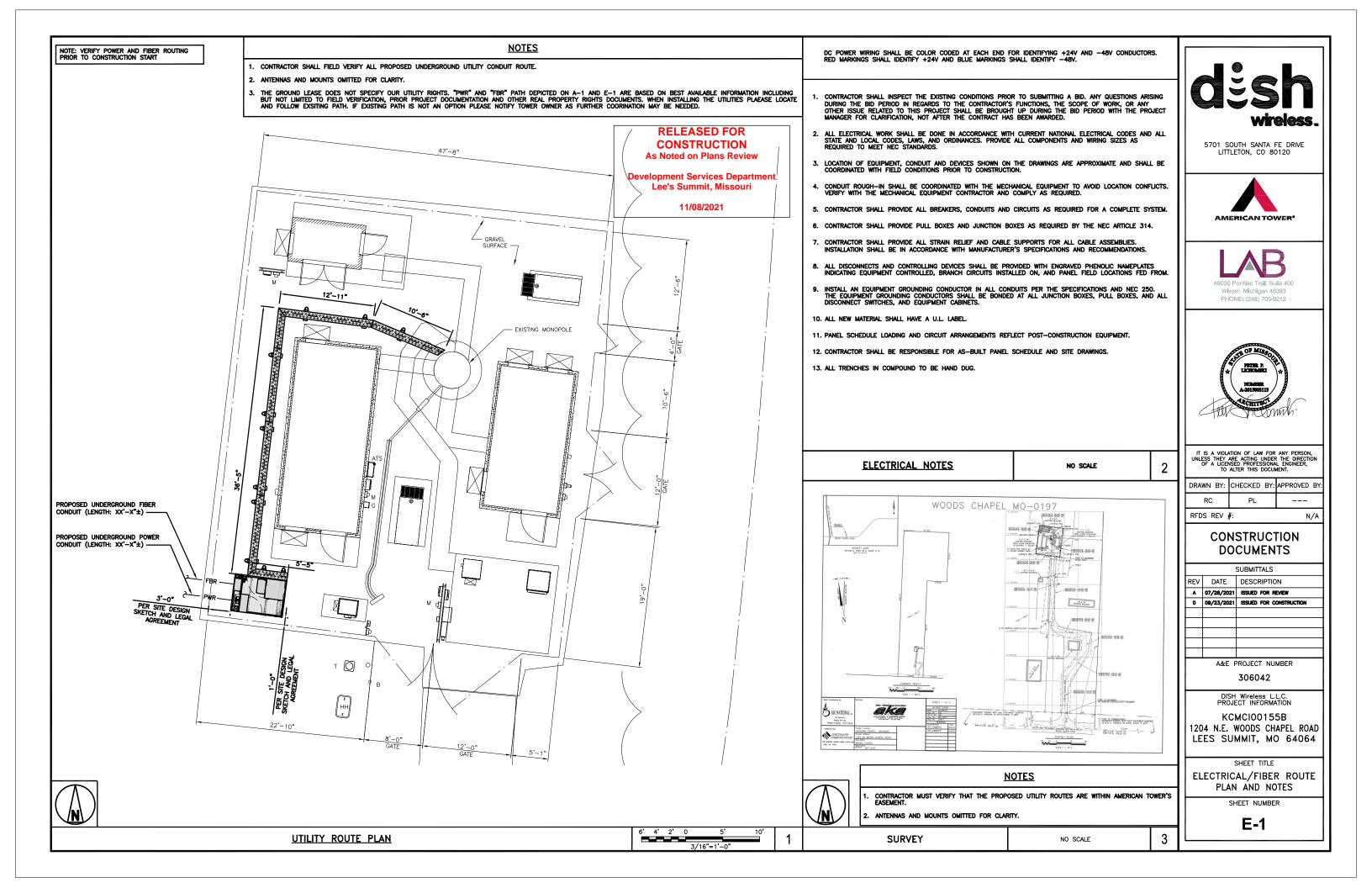


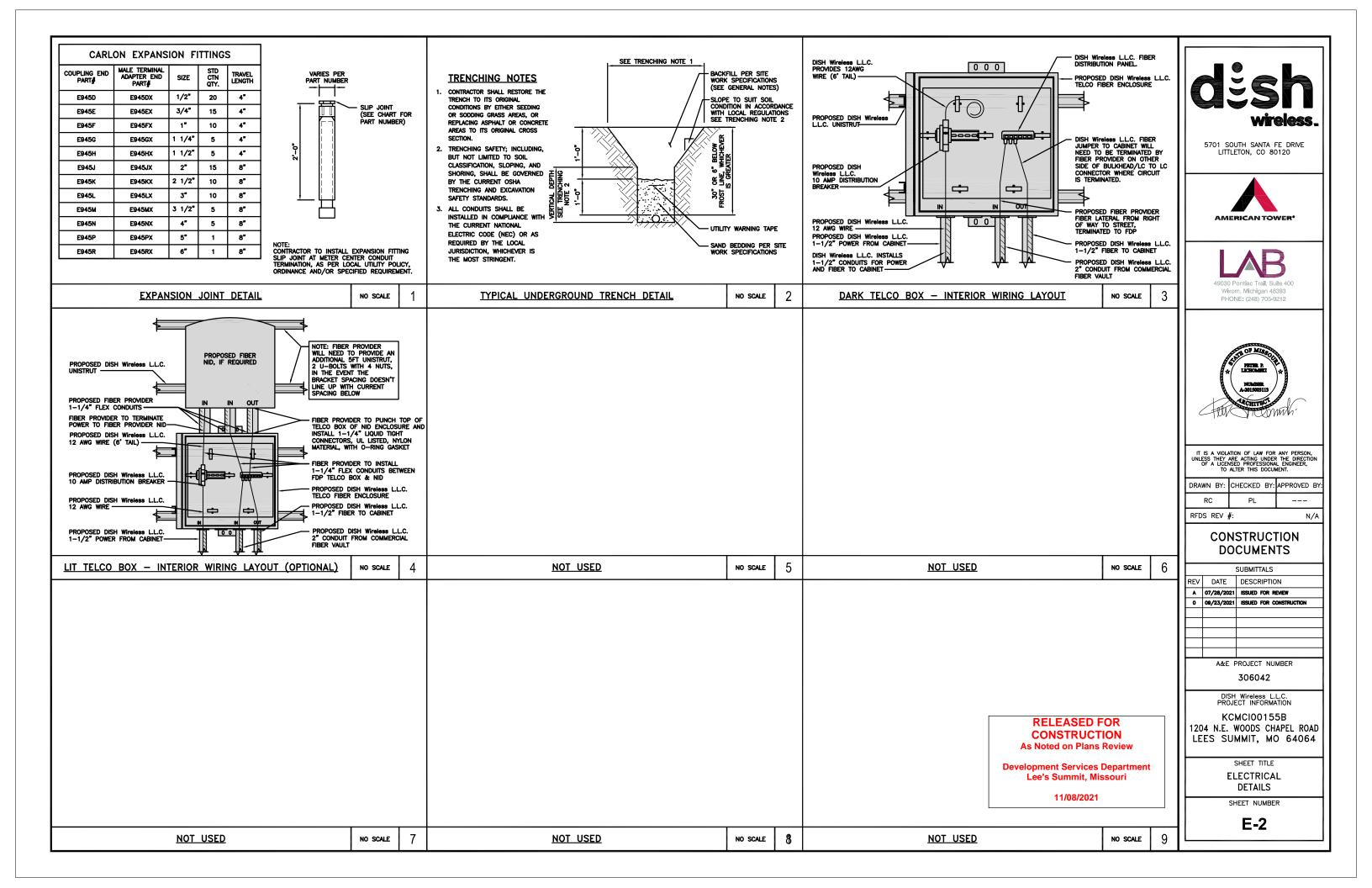


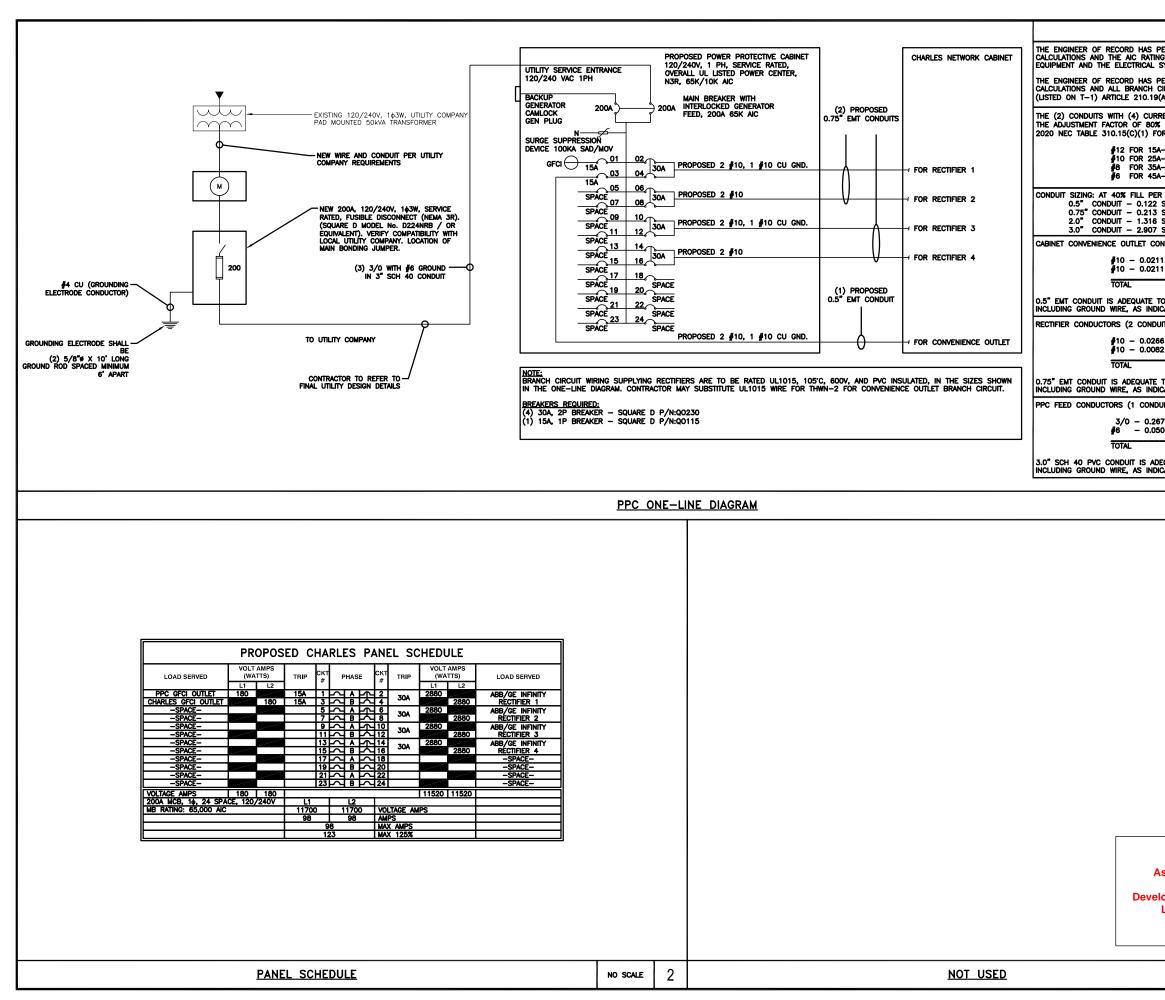
PCTEL GPSGL-TMG-SPI-40NCB DIMENSIONS (DIAXH) MM/INCH 3.1*X7.25 WEIGHT W/ACCESSORIES 075 lbs CONNECTOR N-FEMAL FREQUENCY RANGE 1590 ± 300			MINIMUM OF 75% OR 270' IN ANY DIRECTION GPS C C C C C C C C C C C C C C C C C C C			CU12PSM6P4XXX (4 AWG CONDUCTORS)
<u>GPS DETAI</u>	NO SCALE	1	GPS MINIMUM SKY VIEW REQUIREMENTS	NO SCALE	2	CABLES UNLIMITED HYBRID CA MINIMUM BEND RADIUSES
NOT USED	NO SCALE	4	NOT USED	NO SCALE	5	NOT USED
						D
NOT USED	NO SCALE	7	NOT USED	NO SCALE	8	NOT USED
L	I		1	1		1



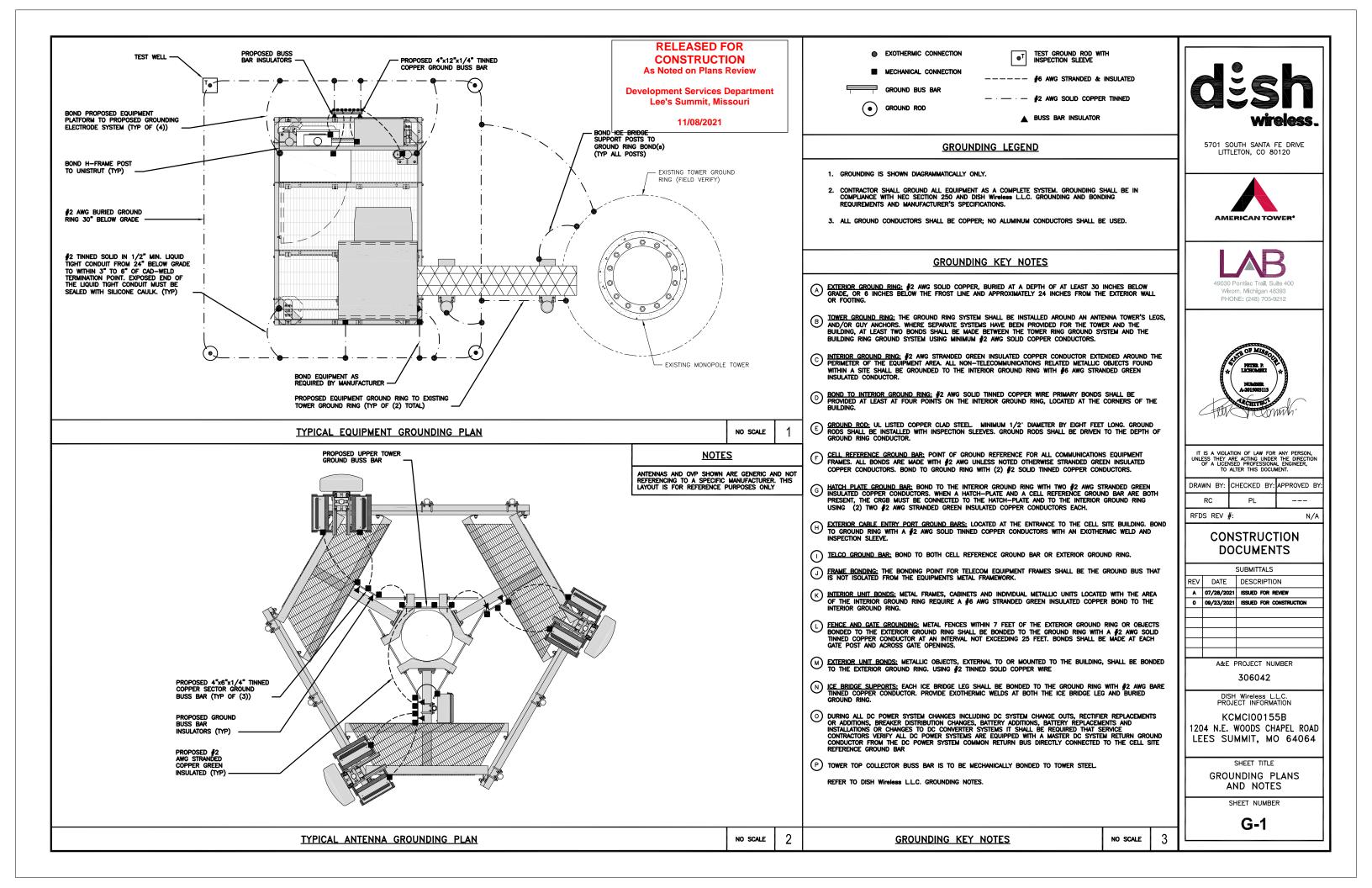


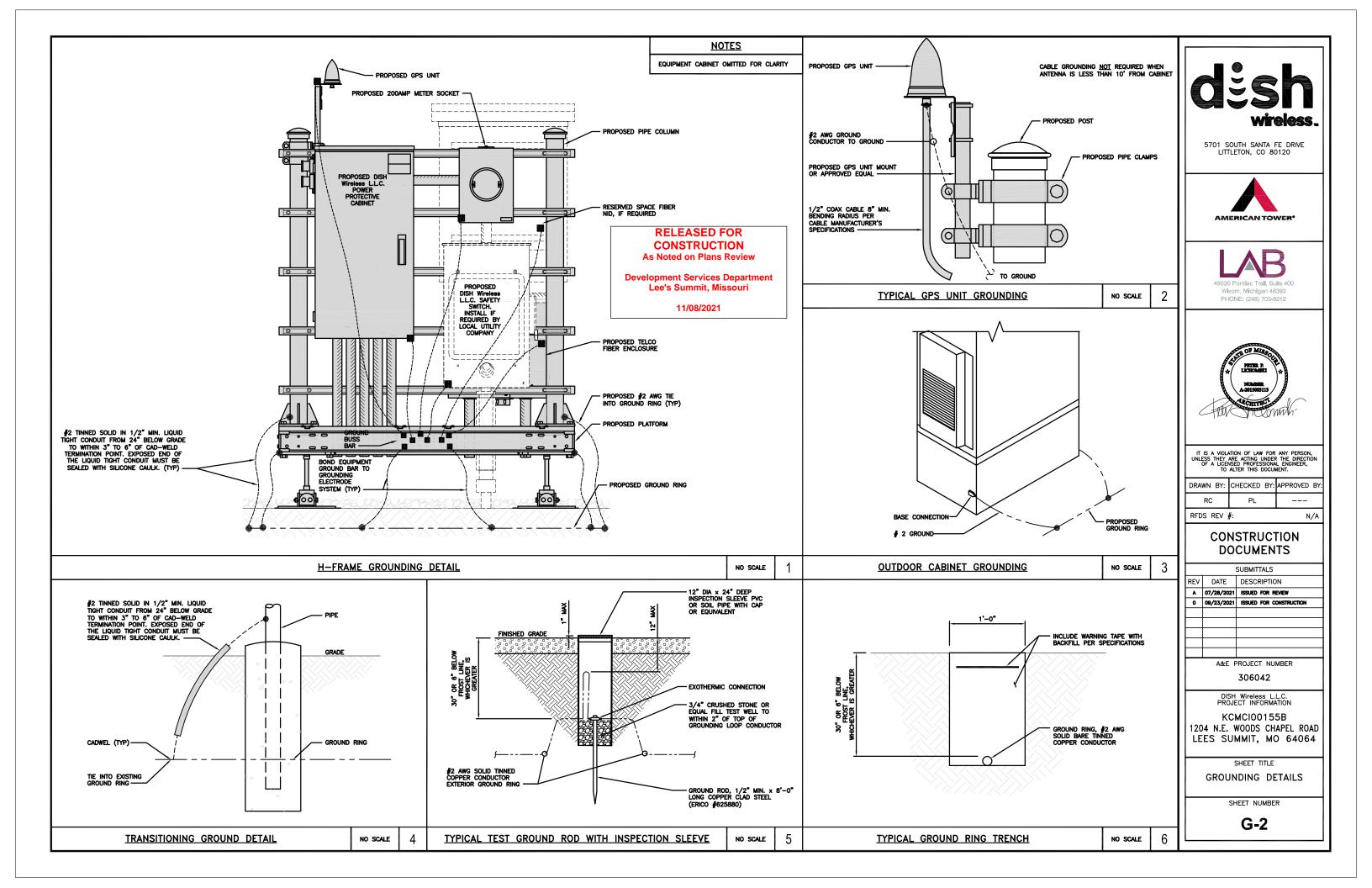






<u>NOTES</u>					
PERFORMED ALL REQUIRED SH INGS FOR EACH DEVICE IS ADE . SYSTEM.		ect the	.		
PERFORMED ALL REQUIRED VO CIRCUIT AND FEEDERS COMPL' 9(A)(1) FPN NO. 4.	LTAGE DROP Y WITH THE NEC			isn	
RRENT CARRYING CONDUCTORS)% PER 2014/17 NEC TABLE 3 FOR UL1015 WIRE.					wireless.
5A-20A/1P BREAKER: 0.8 x 3 5A-30A/2P BREAKER: 0.8 x 4 5A-40A/2P BREAKER: 0.8 x 5 5A-60A/2P BREAKER: 0.8 x 7	0A = 32.0A 5A = 44.0A				JTH SANTA FE DRIVE ETON, CO 80120
ER NEC CHAPTER 9, TABLE 4, 2 SQ. IN AREA 3 SQ. IN AREA 6 SQ. IN AREA 7 SQ. IN AREA 7 SQ. IN AREA	ARTICLE 358.				
CONDUCTORS (1 CONDUIT): USI	NG THWN-2, CU			AMEI	RICAN TOWER [®]
211 SQ. IN X 2 = 0.0422 SQ. 211 SQ. IN X 1 = 0.0211 SQ.				_	
= 0.0633 SQ.				l.	AR
TO HANDLE THE TOTAL OF (3) DICATED ABOVE.	WIRES,				rontiac Trail, Suite 400
DUITS): USING UL1015, CU.	IN				m, Michigan 48393 NE: (248) 705-9212
266 SQ. IN X 4 = 0.1064 SQ. 082 SQ. IN X 1 = 0.0082 SQ.	IN <bare gro<="" td=""><td>UND</td><td></td><td></td><td></td></bare>	UND			
= 0.1146 SQ. E TO HANDLE THE TOTAL OF (
DICATED ABOVE.				Å	TH OF MISSOL
IDUIT): USING THWN, CU. 2679 SQ. IN X 3 = 0.8037 SC				(*	PRIME P.
0507 SQ. IN X 1 = 0.0507 SQ = 0.8544 SQ	Q. IN <ground< td=""><td></td><td></td><td></td><td>MILACHER A-2015003113</td></ground<>				MILACHER A-2015003113
= 0.8544 SU ADEQUATE TO HANDLE THE TOTA DICATED ABOVE.		5,	6	HUR	Million Mark
	NO SCALE	1		IS A VIOLATIO	ON OF LAW FOR ANY PERSON, E ACTING UNDER THE DIRECTION D PROFESSIONAL ENGINEER,
					TER THIS DOCUMENT.
				WN BY: CI	PL
				S REV #:	N/A
				"	STRUCTION
					CUMENTS
					SUBMITTALS
			REV	DATE	
			A 0	07/28/2021 09/23/2021	ISSUED FOR REVIEW ISSUED FOR CONSTRUCTION
				٨٥-٢ ٢	PROJECT NUMBER
				ACCE H	306042
				DISH	Wireless L.L.C.
				PROJE	MCI00155B
RELEASED FOR CONSTRUCTION As Noted on Plans Rev	N			4 N.E. \	WOODS CHAPEL ROAD MMIT, MO 64064
elopment Services Dep Lee's Summit, Misso	partment			CTRICAL	SHEET TITLE ONE-LINE, FAULT PANEL SCHEDULE
11/08/2021					IEET NUMBER
11/00/2021		J			E-3
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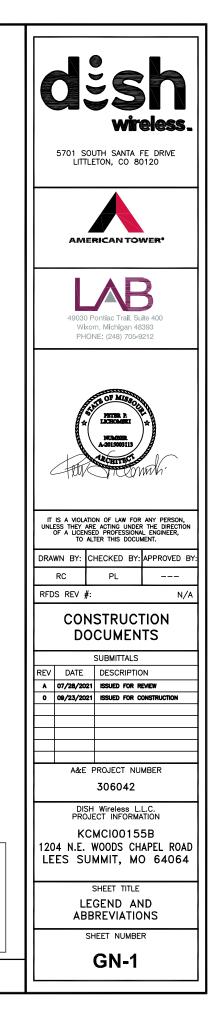


TYPICAL DROUNDING NOTES vs soul: 1 TYPICAL EXTERIOR TWO HOLE LUG vs soul: 2 TYPICAL INTERIOR TWO HOLE LUG vs soul: 3 Umage: Constrained of the souli of th	 EXOTHERMIC WELD (2) TWO,	TOOTHED EXTERIOR TWO-HOLE SHERINK UV BUTT U CONNECTORS RATED CONNECT 3/8" DIA x1 1/2" S/S NUT S/S LOCK WASHER S/S FLAT WASHER S/S FLAT WASHER	CTOR INSULATION TO P AGAINST THE CTOR BARREL	TOOTHED BARREL, REQUIRED FOR SHRINK BUTT UP AGAI ALL INTEROR TWO-HOLE CONNECTOR B 3/8" DIA x1 1/2" S/S NUT S/S LOCK WASHER S/S FLAT WASHER S/S FLAT WASHER	BARREL	STOL SOUTH SANTA FE DRIVE LITTLETON, CO 80120
WILL HEARD OF JOINT WARDER (PR) WILL HEARD OF JOINT WARD OF JOINT	TYPICAL GROUNDING NOTES NO SCALE 1	TYPICAL EXTERIOR TWO HOLE LUG	NO SCALE 2	TYPICAL INTERIOR TWO HOLE LUG	scale 3	
REV ATE DESCRIPTION 4 9792/921 Base Ten Example 5 9792/921 Base Ten Example 5 9792/921 Base Ten Example 6 9792/921 Base Ten Example 6 9792/921 Base Ten Example 7 9792/921 Base Ten Example 8 7<701	TO BE VISIBLE (TYP) S/S SPLIT WASHER (TYP) S/S FLAT WASHER (TYP) 2 HOLE LONG BARREL TINNED SOLID COPPER LUG (TYP) TIN COATED SOLID COPPER BUS BAR COPPER BUS BAR COPPER BUS BAR					IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT. DRAWN BY: CHECKED BY: APPROVED BY: RC PL RFDS REV #: N/A CONSTRUCTION
RELEASED FOR CONSTRUCTION As locad on Plans Review Image: Second monotone image: Second mon	LUG DETAIL NO SCALE 4	<u>NOT_USED</u>	no scale 5	NOT USED NO S	scale 6	SUBMITTALS
				CONSTRUCTION As Noted on Plans Review Development Services Departn Lee's Summit, Missouri		A 07/28/2021 ISSUED FOR REVEW 0 09/23/2021 ISSUED FOR CONSTRUCTION A ISSUED FOR CONSTRUCTION A&E PROJECT NUMBER 306042 DISH Wireless L.L.C. PROJECT INFORMATION KCMCI00155B 1204 N.E. WOODS CHAPEL ROAD LEES SUMMIT, MO 64064 SHEET TITLE GROUNDING DETAILS SHEET NUMBER SHEET NUMBER

RF JUMPER COLOR CODING		3/4" TAPE WIDTHS WITH 3/4" SPA	CING]		
LOW–BAND RRH – (600MHz N71 BASEBAND) + (850MHz N26 BAND) + (700MHz N29 BAND) – OPTIONAL PER MARKET	ALPHA RRH PORT 1 PORT 2 PORT 3 F + SLANT - SLANT + SLANT - RED RED RED RED	BETA RRH PORT 4 PORT 1 PORT 2 PORT 3 SLANT + SLANT - SLANT + SLANT RED BLUE BLUE BLUE	- SLANT + SLANT	CAMMA RRH PORT 2 PORT 3 PORT 4 - SLANT + SLANT - SLANT GREEN GREEN GREEN		LOW BANDS (N71+N26) OPTIONAL - (N29) ORANGE	
ADD FREQUENCY COLOR TO SECTOR BAND (CBRS WILL USE YELLOW BANDS)				ORANCE GREEN GREEN WHITE (-) PORT ORANCE ORANCE (-) PORT		CBRS TECH (3 GHz) YELLOW	
MID-BAND RRH – (AWS BANDS N66+N70)	RED RED RED PURPLE PURPLE RED	RED BLUE BLUE BLUE BLUE BLUE BLUE BLUE		GREEN GREEN GREEN	-	ALPHA SECTOR	BETA SECT BLUE
ADD FREQUENCY COLOR TO SECTOR BAND (CBRS WILL USE YELLOW BANDS)			PURPLE WHITE (-) PORT	WHITE (-) PORT PURPLE PURPLE WHITE (-) PORT		COLOR IDENTIFIER	
HYBRID/DISCREET CABLES	EXAMPLE 1 EXAMPLE 2	EXAMPLE 3					
INCLUDE SECTOR BANDS BEING SUPPORTED ALONG WITH FREQUENCY BANDS	RED RED BLUE	RED					
EXAMPLE 1 – HYBRID, OR DISCREET, SUPPORTS ALL SECTORS, BOTH LOW-BANDS AND MID-BANDS	GREEN	ORANGE PURPLE					
EXAMPLE 2 – HYBRID, OR DISCREET, SUPPORTS CBRS ONLY, ALL SECTORS	ORANGE YELLOW PURPLE						
FIBER JUMPERS TO RRHs	LOW BAND RRH HIGH BAND RRH	LOW BAND RRH HIGH BAND RRI	H LOW BAND RRH	HIGH BAND RRH	-		
LOW-BAND RRH FIBER CABLES HAVE SECTOR STRIPE ONLY	RED RED PURPLE	BLUE BLUE PURPLE	GREEN	GREEN PURPLE			
POWER CABLES TO RRHs	LOW BAND RRH HIGH BAND RRH	LOW BAND RRH HIGH BAND RRI	H LOW BAND RRH	HIGH BAND RRH	-		
LOW-BAND RRH POWER CABLES HAVE SECTOR STRIPE ONLY	RED RED	BLUE BLUE	GREEN	GREEN			
	PURPLE	PURPLE		PURPLE		<u>NOT USED</u>	
RET MOTORS AT ANTENNAS	ANTENNA 1 ANTENNA 1 LOW BAND/ HIGH BAND/	ANTENNA 1 ANTENNA 1 LOW BAND/ HIGH BAND/	ANTENNA 1 LOW BAND/	ANTENNA 1 HIGH BAND/	-		
	"IN" "IN" RED RED	"IN" "IN" BLUE BLUE PURPLE	"IN"	"IN" CREEN PURPLE			
MICROWAVE RADIO LINKS FO	RWARD AZIMUTH OF 0-120 DEGREES	FORWARD AZIMUTH OF 120-240 DEGREES	FORWARD AZIMUTH O	F 240-360 DEGREES	1		
LINKS WILL HAVE A 1.5-2 INCH WHITE WRAP WITH THE AZIMUTH COLOR OVERLAPPING IN THE MIDDLE. ADD ADDITIONAL SECTOR COLOR BANDS FOR EACH ADDITIONAL MW RADIO. MICROWAVE CABLES WILL REQUIRE P-TOUCH LABELS INSIDE THE CABINET TO IDENTIFY THE LOCAL AND REMOTE SITE ID'S	PRIMARY SECONDARY WHITE WHITE RED WHITE WHITE WHITE WHITE WHITE WHITE WHITE	PRIMARY SECONDARY WHITE WHITE BLUE BLUE WHITE WHITE BLUE WHITE	PRIMARY WHITE GREEN WHITE	SECONDARY WHITE GREEN WHITE GREEN WHITE			
				-	-		

	AWS (N66+N70+H-BLOCK) PURPLE		dish wireless.
	NEGATIVE SLANT PORT ON ANT/RRH WHITE		5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120
R	GAMMA SECTOR	-	AMERICAN TOWER*
	GREEN NO SCALE	2	49030 Pontiac Trail, Suite 400 Wkom, Michigan 48393 PHONE: (248) 705-9212
			T IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSE TO ALTER THIS DOCUMENT. DRAWN BY: CHECKED BY: APPROVED BY: RC PL RFDS REV #: N/A CONSTRUCTION
	NO SCALE	3	DOCUMENTS
_1			REV DATE DESCRIPTION A 07/28/2021 ISSUED FOR REVIEW 0 06/23/2021 ISSUED FOR CONSTRUCTION
	RELEASED FOR CONSTRUCTION As Noted on Plans Review		1204 N.E. WOODS CHAPEL ROAD LEES SUMMIT, MO 64064 SHEET TITLE RF
Dev	velopment Services Departme Lee's Summit, Missouri	ent	CABLE COLOR CODE
	11/08/2021		RF-1
	NO SCALE	4	

EXOTHERMIC CONNECTION	•	AB	ANCHOR BOLT	IN	INCH	
MECHANICAL CONNECTION	-	ABV AC	ABOVE ALTERNATING CURRENT	INT LB(S)	Interior Pound(s)	
BUSS BAR INSULATOR	—	ADDL	ADDITIONAL	LF	LINEAR FEET	
CHEMICAL ELECTROLYTIC GROUNDING SYSTEM	— 0	AFF AFG	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE	LTE	LONG TERM EVOLUTION	
TEST CHEMICAL ELECTROLYTIC GROUNDING SYSTE		AGL	ABOVE GROUND LEVEL	MAS MAX	MASONRY MAXIMUM	
EXOTHERMIC WITH INSPECTION SLEEVE		AIC	AMPERAGE INTERRUPTION CAPACITY	мв	MACHINE BOLT	
GROUNDING BAR		ALUM ALT	ALUMINUM ALTERNATE	MECH	MECHANICAL MANUFACTURER	
		ANT	ANTENNA	MGB	MASTER GROUND BAR	
GROUND ROD		APPROX ARCH	APPROXIMATE ARCHITECTURAL	MIN		
TEST GROUND ROD WITH INSPECTION SLEEVE	® ™	ATS	AUTOMATIC TRANSFER SWITCH	MISC MTL	MISCELLANEOUS METAL	
SINGLE POLE SWITCH	\$	AWG	AMERICAN WIRE GAUGE	MTS	MANUAL TRANSFER SWITCH	
	ж	BATT BLDG	BATTERY BUILDING	MW NEC	MICROWAVE NATIONAL ELECTRIC CODE	
DUPLEX RECEPTACLE	\oplus	BLK	BLOCK	NM	NEWTON METERS	
DUPLEX GFCI RECEPTACLE	B	BLKG BM	BLOCKING BEAM	NO.	NUMBER	
		BM	BARE TINNED COPPER CONDUCTOR	# NTS	NUMBER NOT TO SCALE	
FLUORESCENT LIGHTING FIXTURE	F	BOF	BOTTOM OF FOOTING	oc	ON-CENTER	
(2) TWO LAMPS 48-T8		CAB CANT	CABINET CANTILEVERED	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	
SMOKE DETECTION (DC)	SD	СНС	CHARGING	OPNG P/C	OPENING PRECAST CONCRETE	
	a	CLG	CEILING	PCS	PERSONAL COMMUNICATION SERVICES	
EMERGENCY LIGHTING (DC)		CLR COL	CLEAR COLUMN	PCU	PRIMARY CONTROL UNIT	
SECURITY LIGHT W/PHOTOCELL LITHONIA ALXW		СОММ	COMMON	PRC PP	PRIMARY RADIO CABINET POLARIZING PRESERVING	
LED-1-25A400/51K-SR4-120-PE-DDBTXD		CONC	CONCRETE CONSTRUCTION	PSF	POUNDS PER SQUARE FOOT	
CHAIN LINK FENCE	x x x x	DBL	DOUBLE	PSI PT	POUNDS PER SQUARE INCH PRESSURE TREATED	
WOOD/WROUGHT IRON FENCE		DC	DIRECT CURRENT	PWR	POWER CABINET	
WALL STRUCTURE		DEPT	DEPARTMENT DOUGLAS FIR	QTY	QUANTITY	
LEASE AREA		DIA	DIAMETER	RAD RECT	RADIUS RECTIFIER	
PROPERTY LINE (PL)		DIAG	DIAGONAL DIMENSION	REF	REFERENCE	
SETBACKS		DWG	DRAWING	REINF	REINFORCEMENT	
ICE BRIDGE		DWL	DOWEL	REQ'D RET	required Remote electric tilt	
CABLE TRAY		EA EC	EACH ELECTRICAL CONDUCTOR	RF	RADIO FREQUENCY	
WATER LINE	w w w w w	EL.	ELEVATION	RMC RRH	RIGID METALLIC CONDUIT REMOTE RADIO HEAD	
UNDERGROUND POWER	UGP UGP UGP UGP	ELEC	ELECTRICAL ELECTRICAL METALLIC TUBING	RRU	REMOTE RADIO UNIT	
UNDERGROUND TELCO	ugt ugt ugt ugt	ENG	ELECTRICAL METALLIC TUBING	RWY	RACEWAY	
OVERHEAD POWER	OHP OHP OHP	EQ	EQUAL	SCH SHT	Schedule Sheet	
OVERHEAD TELCO	онт онт онт	EXP EXT	EXPANSION EXTERIOR	SIAD	SMART INTEGRATED ACCESS DEVICE	
	UGT/P UGT/P UGT/P	EW	EACH WAY	SIM SPEC	SIMILAR SPECIFICATION	
		FAB	FABRICATION	SPEC	SPECIFICATION	
ABOVE GROUND POWER		FF FG	FINISH FLOOR FINISH GRADE	SS	STAINLESS STEEL	
ABOVE GROUND TELCO	AGT AGT AGT AGT	FIF	FACILITY INTERFACE FRAME	STD STL	STANDARD STEEL	
ABOVE GROUND TELCO/POWER	AGT/P AGT/P AGT/P	FIN	Finish(ED) Floor	TEMP	TEMPORARY	
WORKPOINT	W.P.	FLR FDN	FOUNDATION	ТНК	THICKNESS	
SECTION REFERENCE	xx x-x	FOC	FACE OF CONCRETE	TMA TN	TOWER MOUNTED AMPLIFIER TOE NAIL	
	X-X	FOM FOS	FACE OF MASONRY FACE OF STUD	TOA	TOP OF ANTENNA	
DETAIL REFERENCE		FOW	FACE OF WALL	TOC TOF	TOP OF CURB TOP OF FOUNDATION	
	\bigcirc	FS	FINISH SURFACE	TOP	TOP OF PLATE (PARAPET)	
		FT FTG	FOOT FOOTING	TOS	TOP OF STEEL	
		GA	GAUGE	TOW TVSS	TOP OF WALL TRANSIENT VOLTAGE SURGE SUPPRESSION	
		GEN GFCI	GENERATOR GROUND FAULT CIRCUIT INTERRUPTER	TYP	TYPICAL	
		GLB	GLUE LAMINATED BEAM	UG		
		GLV	GALVANIZED	UL UNO	UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE	г
		GPS GND	GLOBAL POSITIONING SYSTEM GROUND	UMTS	UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM	
		GSM	GLOBAL SYSTEM FOR MOBILE	UPS	UNITERRUPTIBLE POWER SYSTEM (DC POWER PLANT)	
		HDG	HOT DIPPED GALVANIZED	VIF W	VERIFIED IN FIELD WIDE	
		HDR HGR	HEADER HANGER		WITH	De
		HVAC	HEAT/VENTILATION/AIR CONDITIONING	WD	WOOD	
		HT IGR	HEIGHT INTERIOR GROUND RING	WP WT	WEATHERPROOF WEIGHT	
		IGK				



RELEASED FOR CONSTRUCTION As Noted on Plans Review

Development Services Department Lee's Summit, Missouri

11/08/2021

SITE ACTIVITY REQUIREMENTS:

NOTICE TO PROCEED - NO WORK SHALL COMMENCE PRIOR TO CONTRACTOR RECEIVING A WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE DISH Wireless L.L.C. AND TOWER OWNER NOC & THE DISH Wireless L.L.C. AND TOWER OWNER CONSTRUCTION MANAGER.

"LOOK UP" - DISH Wireless L.L.C. AND TOWER OWNER SAFETY CLIMB REQUIREMENT: 2.

THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE. BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS. DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR DISH Wireless L.L.C. AND DISH Wireless L.L.C. AND TOWER OWNER POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.

3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.

ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND DISH WIreless L.L.C. AND TOWER OWNER STANDARDS, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA-322 (LATEST EDITION).

ALL SITE WORK TO COMPLY WITH DISH WIReless L.L.C. AND TOWER OWNER INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON DISH WIReless L.L.C. AND TOWER OWNER TOWER SITE AND LATEST VERSION OF ANSI/TIA-1019-A-2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."

IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY DISH Wireless L.L.C. AND TOWER OWNER PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.

ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES. REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES INCLUDING PRIVATE LOCATES SERVICES PRIOR TO THE START OF CONSTRUCTION.

ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.

ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND DISH PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.

CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF 12 THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.

ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF DISH Wireless L.L.C. AND TOWER OWNER, AND/OR LOCAL UTILITIES.

THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.

THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS. 15.

THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE 16 APPLICATION.

THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER. EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.

CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES, ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.

CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS AND RADIOS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

21 CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS

NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT 22 BE PLACED IN ANY FILL OR EMBANKMENT.

GENERAL NOTES:

1.FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:

CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION

CARRIER:DISH Wireless L.L.C.

TOWER OWNER: TOWER OWNER

THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.

THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.

NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.

SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.

PRIOR TO THE SUBMISSION OF BIDS. THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CARRIER POC AND TOWER OWNER.

ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND TOWER OWNER PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.

CONTRACTOR IS TO PERFORM A SITE INVESTIGATION, BEFORE SUBMITTING BIDS, TO DETERMINE THE BEST ROUTING OF ALL 11 CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.

12 THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF DISH Wireless L.L.C. AND TOWER OWNER

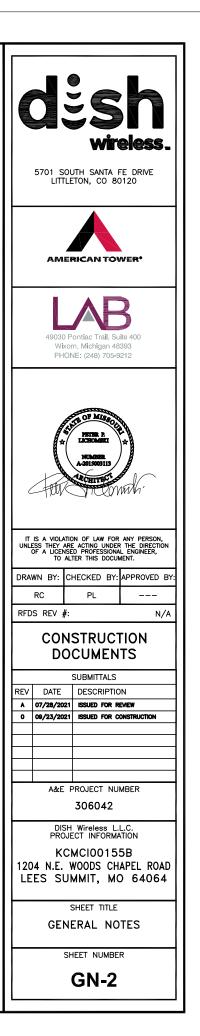
CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY RASIS



Development Services Department Lee's Summit, Missouri

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CONCRETE. FOUNDATIONS. AND REINFORCING STEEL:

ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.

UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 2. psf.

ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90'F AT TIME OF PLACEMENT.

CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45.

ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:

#4 BARS AND SMALLER 40 ksi

#5 BARS AND LARGER 60 ksi

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
- CONCRETE EXPOSED TO EARTH OR WEATHER:
- #6 BARS AND LARGER 2"
- #5 BARS AND SMALLER 1-1/2"
- · CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
- SLAB AND WALLS 3/4"
- BEAMS AND COLUMNS 1-1/2"

A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

ELECTRICAL INSTALLATION NOTES:

ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.

CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.

- 3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.

4.1. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.

ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.

EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.

ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).

PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS. 7.

8. TIE WRAPS ARE NOT ALLOWED.

ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.

SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.

POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS 11. OTHERWISE SPECIFIED.

POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.

ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND 13. BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75" C (90" C IF AVAILABLE).

RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND 14 NEC.

ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR 15. EXPOSED INDOOR LOCATIONS.

ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE 5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120 WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL). CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE AMERICAN TOWER EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET Wixom, Michigan 48393 PHONE: (248) 705-9212 METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR DISH Wireless L.L.C. AND THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "DISH Wireless L.L.C.". ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED. IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT. DRAWN BY: CHECKED BY: APPROVED BY RC ____ PL RFDS REV #: N/A CONSTRUCTION DOCUMENTS SUBMITTALS REV DATE DESCRIPTION A 07/28/2021 ISSUED FOR REVIEW 0 09/23/2021 ISSUED FOR CONSTRUCTION A&E PROJECT NUMBER 306042 DISH Wireless L.L.C. PROJECT INFORMATION KCMCI00155B 1204 N.E. WOODS CHAPEL ROAD LEES SUMMIT, MO 64064 **RELEASED FOR** CONSTRUCTION SHEET TITLE As Noted on Plans Review GENERAL NOTES **Development Services Department** SHEET NUMBER Lee's Summit, Missouri GN-3 11/08/2021

16. 17. GRADE PVC CONDUIT. 18. OCCURS OR FLEXIBILITY IS NEEDED. 19. SCREW FITTINGS ARE NOT ACCEPTABLE. 20. NEC. 21. (WIREMOLD SPECMATE WIREWAY). 22. 23. DEVICES (i.e. POWDER-ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES, CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS, ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE. 24 STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3 (OR BETTER) FOR EXTERIOR LOCATIONS. 25 EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS. 26 NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS. 27. TOWER OWNER BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS. 28 WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY. 29. 30.

GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.

2. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.

3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.

4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.

5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.

6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.

7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.

8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.

9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.

10. USE OF 90' BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45' BENDS CAN BE ADEQUATELY SUPPORTED.

11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.

12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.

13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.

14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.

15. APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.

16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.

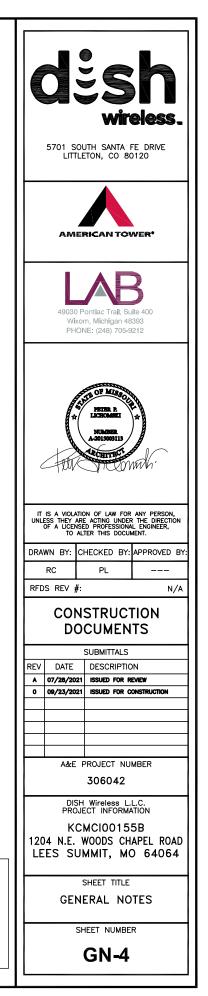
17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.

18. BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.

19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.

20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).

21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY). DO NOT ATTACH GROUNDING TO FIRE SPRINKLER SYSTEM PIPES.



RELEASED FOR CONSTRUCTION As Noted on Plans Review

Development Services Department Lee's Summit, Missouri

11/08/2021