



The City of
OKLAHOMA CITY

**CERTIFICATE OF APPROVAL
DOWNTOWN DESIGN REVIEW DISTRICT
DTCA-24-00026**

Applicant:
Matthew Emigh
Mastec
1351 Irving Park Rd
Itasca, IL 60143

Owner:
Martin Herman
NE CS FNC Hotel, LLC/FNC Security,
120 N Robinson Ave
Oklahoma City, OK 73102

On 5/22/2024, the Planning Department staff received your application for a Certificate of Approval. In accordance with §59-7200 of the Oklahoma City Municipal Code, also known as the Downtown Zoning Ordinance, staff of the Oklahoma City Planning Department has reviewed in detail the application for **120 N Robinson Ave**. Staff has determined that the following is in conformance with the provisions of the Ordinance:

1) Remove and add roof mounted telecommunications equipment.

Note: All items are elective unless construction is started.

All twelve (12) attachments must remain together for this document to be valid. Work must be completed within two years of the date of the original approval and must be performed exactly as shown on approved plans.

Approved:	Effective:	Expires:
05/28/2024	06/12/2024	05/28/2026

Note: Work may not commence until after the mandatory 10-working day appeal period starting from the date of approval.

Upon completion of your project, please contact the Planning Department (405-297-1624) for final Special Zoning inspection.

Attest:

A handwritten signature in black ink that reads "Laura Griggs".

Laura Griggs, AICP, Senior Planner
Secretary, Downtown Design Review Committee

Your project may require a permit. Please check with the Plan Review section of the Development Services Department, 8th Floor, 420 W Main St (405-297-2525), for details. To obtain a permit, please submit the Certificate of Approval with the original attachments stamped "approved."



AT&T

Mobility

SITE NAME: DOWNTOWN OKC
 SITE ID: OKL01058
 FA LOCATION CODE: 10006195
 PROJECT: LTE-5G NR RADIO
 TOWER NUMBER: N/A
 PACE ID: MROAR038346 / MROAR048331 / MROAR040137
 IWM JOB: WSOAR0020743 / WSOAR0006405 / WSOAR0007204
 ADDRESS: 120 NORTH ROBINSON AVENUE,
 OKLAHOMA CITY, OK 73102
 TOWER INFO: 185'-0" BUILDING-SIDE MOUNT
 SITE COORDINATES: 35.468318° / -97.515443°

MasTec
 Network Solutions
 1151 SE CARY PARKWAY,
 SUITE 101 CARY, NC 27518

AT&T
 Mobility
 1700 CANTRELL ROAD,
 LITTLE ROCK, AR 72223



DATE SIGNED: 03/22/24

MASTEC NETWORK SOLUTIONS OKLAHOMA FIRM
 NO. 7792 FIRM REGISTRATION RENEWAL
 06/30/2024
 PE LICENSE RENEWAL 10/31/2024

MASTEC NETWORK SOLUTIONS IS REGISTERED IN OK

FOR CONSTRUCTION

SUBMITTALS

REV	DATE	DESCRIPTION	BY
A	10/30/23	CD FOR REVIEW	MM
B	12/15/23	PER REDLINE	MM
C	12/18/23	PER REDLINE	MM
D	03/22/24	FINAL CD	CH

SITE INFORMATION:
 SITE NAME: DOWNTOWN OKC
 SITE NUMBER: OKL01058
 SITE ADDRESS: 120 NORTH ROBINSON AVENUE
 OKLAHOMA CITY, OK 73102
 SITE COORDINATES: 35.468318° / -97.515443°

SHEET TITLE: TITLE SHEET
 SHEET NUMBER: T-1

RECEIVED
 MAY 22 2024
 PLANNING DEPARTMENT

SITE INFORMATION

SITE NAME:	DOWNTOWN OKC
SITE ID:	OKL01058
FA LOCATION CODE:	10006195
ADDRESS:	120 NORTH ROBINSON AVENUE
CITY, STATE ZIP:	OKLAHOMA CITY, OK 73102
COUNTY:	OKLAHOMA
LATITUDE:	35.468318°
LONGITUDE:	-97.515443°
GROUND ELEVATION:	1199'± AMSL
STRUCTURE TYPE:	BUILDING-SIDE MOUNT
STRUCTURE HEIGHT:	185'-0" A.G.L (ABOVE GROUND LEVEL)
RAD CENTER:	178'-0" A.G.L
APPLICANT:	AT&T MOBILITY 17000 CANTRELL ROAD, STEVEN B. LAMBERT, sl5279@att.com LITTLE ROCK, AR 72223
SITE ACQUISITION:	LYNETTE GILBERT - SENIOR SITE ACQUISITION MANAGER M: 847-909-8124 LYNETTE.GILBERT@MASTEC.COM
A&E SERVICES:	MASTEC NETWORK SOLUTIONS. 1151 SE CARY PARKWAY, SUITE 101 CARY, NC 27518 - (972) 581-9888
STRUCTURE OWNER:	1ST NATIONAL CENTER

VICINITY MAP



SHEET INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
C-1	SITE PHOTOS
C-2	COMPOUND PLAN
C-3	SHELTER PLAN
C-4	STRUCTURE ELEVATIONS
C-5	ENLARGED ANTENNA PLAN
C-6	RF SCHEDULE
E-1	RRH BREAKER SCHEDULE
EQ-1	EQUIPMENT DETAILS
GN-1	GENERAL NOTES
EN-1	ELECTRICAL NOTES

SCOPE OF WORK

- ALPHA, BETA, GAMMA:
- ADD (3) NEW AIR6449 N77D AND (3) NEW AIR6419 N77G ON POS3 MOUNTED ABOVE EACH OTHER STACKED.
 - REMOVE (3) EXISTING RRUS-11 B5.

POWER:

- USE EXISTING SQUIDS, TRUNKS AND RAYCAPS.
- ADD (3) DC9, (2) 6AWG DC, (1) 4AWG DC AND (3) 24 PAIR FIBER
- EXISTING NETSURE 512 - 48V DC POWER PLANT

NO CHANGES TO THE AC POWER SYSTEM

DESIGN REVIEW
CERTIFICATE OF APPROVAL
 CA# DICA-24-00026

Approval Date: 05/28/2024

Expiration Date: 05/28/2026

Revised Date: / /

Items: Approved By: lg

With: Condition(s) / Variance

Page 1 of 12

ONE CALL



Know what's below.
Call before you dig.

TO OBTAIN LOCATION OF PARTICIPANTS
 UNDERGROUND FACILITIES BEFORE
 YOU DIG IN OKLAHOMA, CONTACT
 CALL OKIE
 TOLL FREE: 1-800-522-6543 OR
 www.callokie.com

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

APPLICABLE CODES

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH CURRENT EDITIONS OF THE FOLLOWING APPLICABLE CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES.

- 2018 INTERNATIONAL BUILDING CODE
- 2020 NATIONAL ELECTRIC CODE

THESE DRAWINGS ARE DESIGNED TO THE LATEST CODES. THEY ALSO MEET THE ADOPTED CODE REQUIREMENTS OF THE JURISDICTION.

DESIGN REVIEW

CERTIFICATE OF APPROVAL

CA# **17CA-24-00026**

Approval Date: **05/28/2024**

Expiration Date: **05/28/2026**

Revised Date: _____

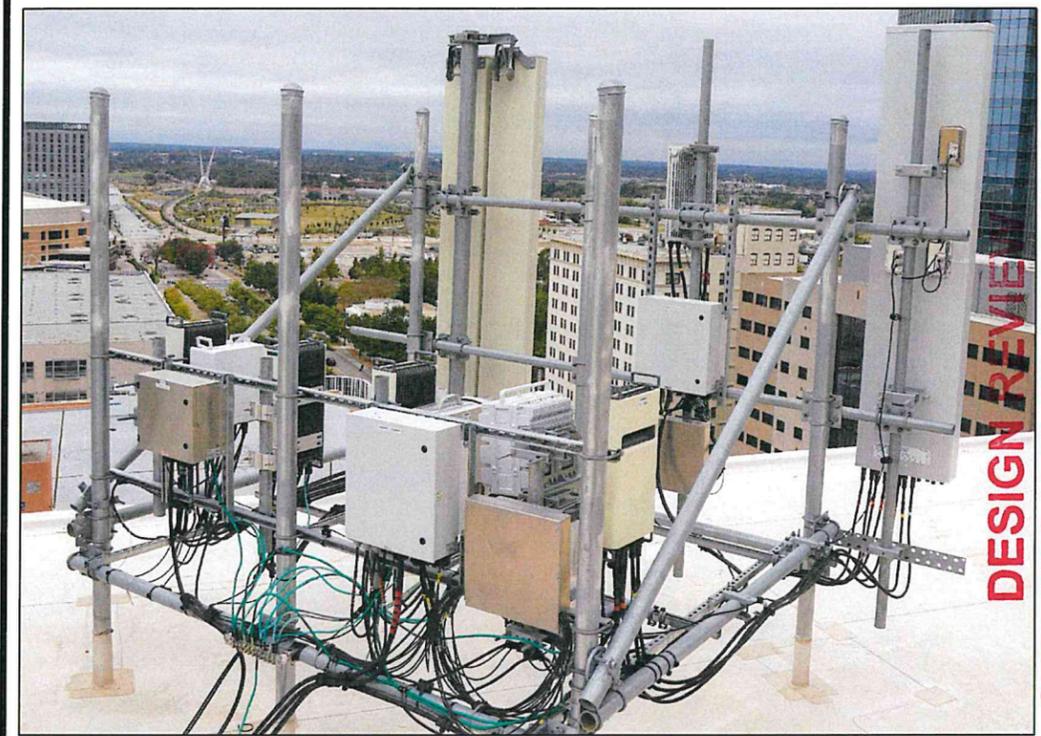
Approved By: *[Signature]*

With: **Condition(s) / Variance**

DATE SIGNED: **03/22/24**

MASTEC NETWORK SOLUTIONS OKLAHOMA FIRM
 NO. 7792 FIRM REGISTRATION RENEWAL
 06/30/2024
 FE LICENSE RENEWAL 10/31/2024

PLANNING DEPARTMENT



FOR CONSTRUCTION

SUBMITTALS

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A	10/30/23	CD FOR REVIEW	MN
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SITE INFORMATION

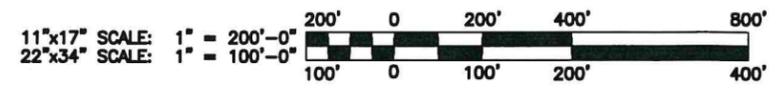
SITE NAME: **DOWNTOWN OKC**

SITE NUMBER: **OKL01058**

SITE ADDRESS: **120 NORTH ROBINSON AVENUE
 OKLAHOMA CITY, OK 73102**

SITE COORDINATES: **35.468318° / -97.515443°**

① **OVERALL SITE PLAN**
 SCALE: 1:100



② **STRUCTURE PHOTO**
 SCALE: N.T.S.

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 MAY 22 2024

SHEET TITLE: **OVERALL SITE PLAN**

SHEET NUMBER: **C-1**

CLIENT:



1700 CANTRELL ROAD,
LITTLE ROCK, AR 72223



DATE SIGNED:
03/22/24

MASTEC NETWORK SOLUTIONS OKLAHOMA FIRM
NO. 7782 FIRM REGISTRATION RENEWAL
06/30/2024
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SITE INFORMATION:

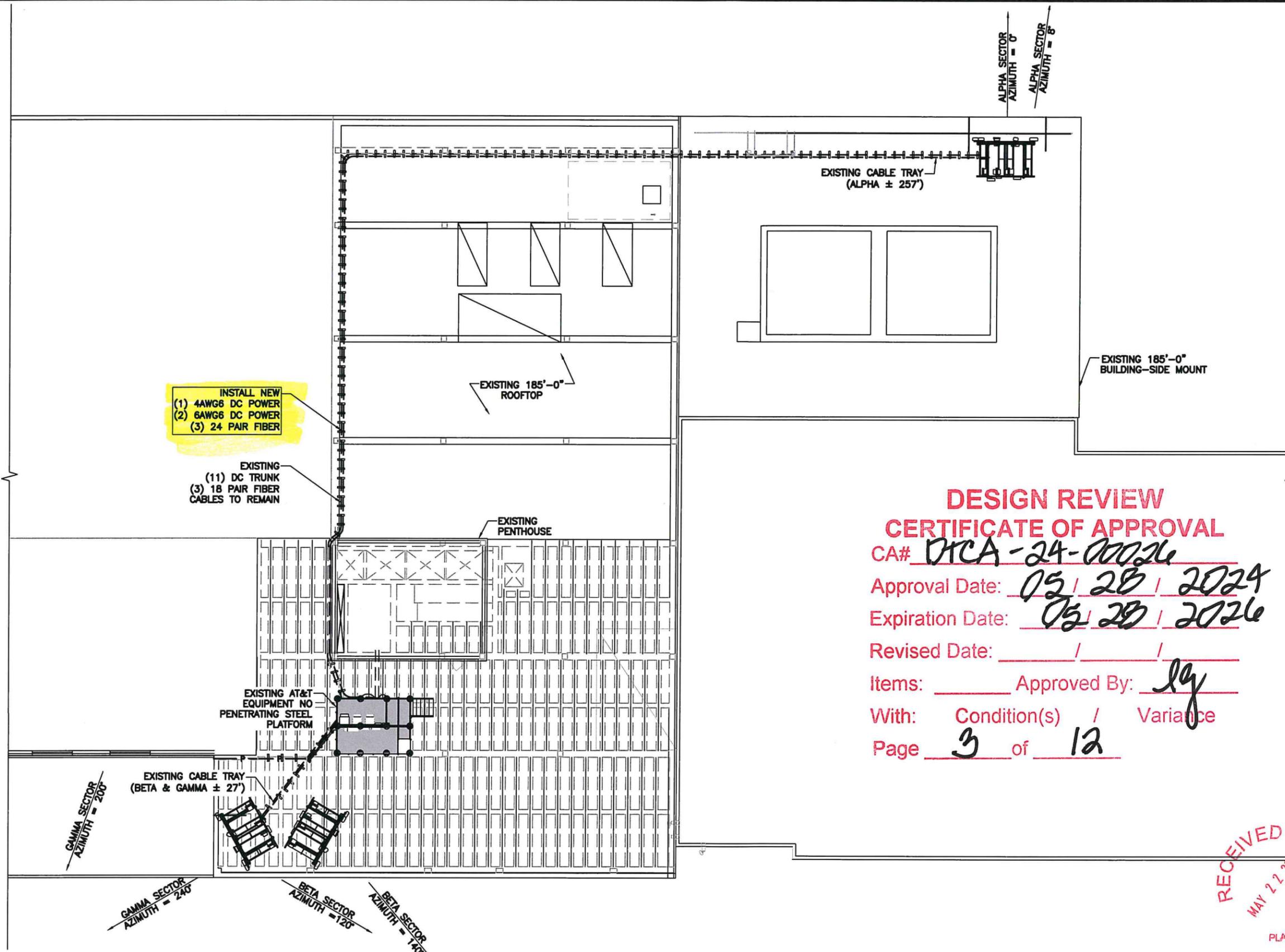
SITE NAME:
DOWNTOWN OKC
SITE NUMBER:
OKL01058
SITE ADDRESS:
**120 NORTH ROBINSON AVENUE
OKLAHOMA CITY, OK 73102**
SITE COORDINATES:
35.468318° / -97.515443°

SHEET TITLE:

COMPOUND PLAN

SHEET NUMBER:

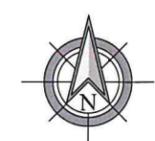
C-2



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Page 3 of 12

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1 DETAILED SITE PLAN
SCALE: 3/32" = 1'-0"



11"x17" SCALE: 3/64" = 1'-0"
22"x34" SCALE: 3/32" = 1'-0"
0 10'-8" 21'-4" 22'-8"
0 5'-4" 10'-8" 21'-4"

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 Page 4 of 12

PREPARED BY
MasTec
 Network Solutions
 1151 SE CARY PARKWAY,
 SUITE 101 CARY, NC 27518

CLIENT

 1700 CANTRELL ROAD,
 LITTLE ROCK, AR 72223



DATE SIGNED:
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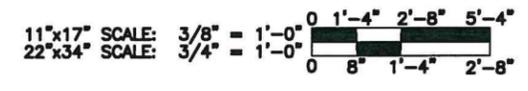
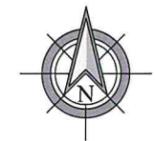
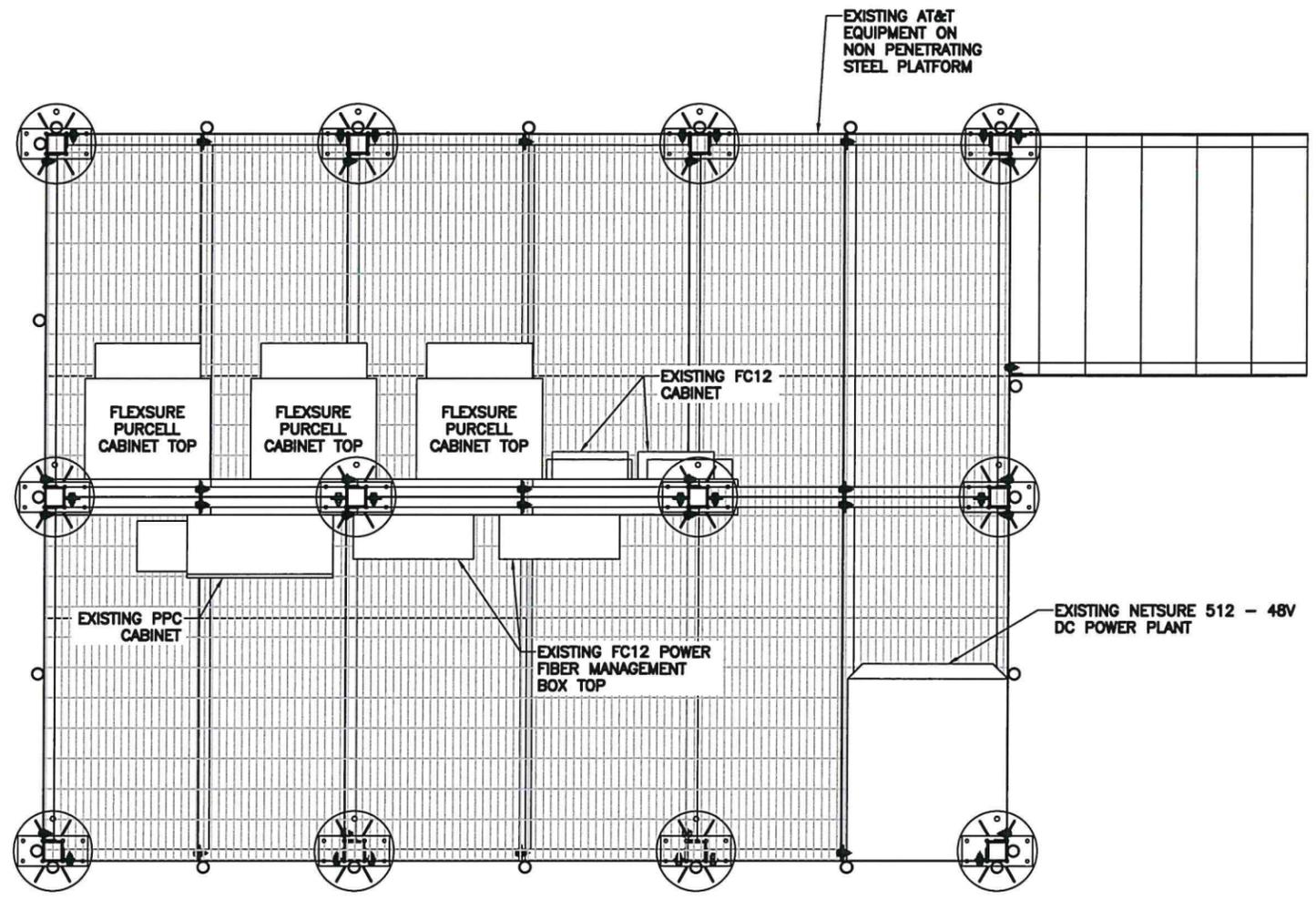
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 SITE NUMBER
OKL01058
 SITE ADDRESS
**120 NORTH ROBINSON AVENUE
 OKLAHOMA CITY, OK 73102**
 SITE COORDINATES
35.468318° / -97.515443°

SHEET TITLE
SHELTER PLAN

SHEET NUMBER
C-3



① SHELTER SITE PLAN
 SCALE: 3/4" = 1'-0"

**DESIGN REVIEW
CERTIFICATE OF APPROVAL**

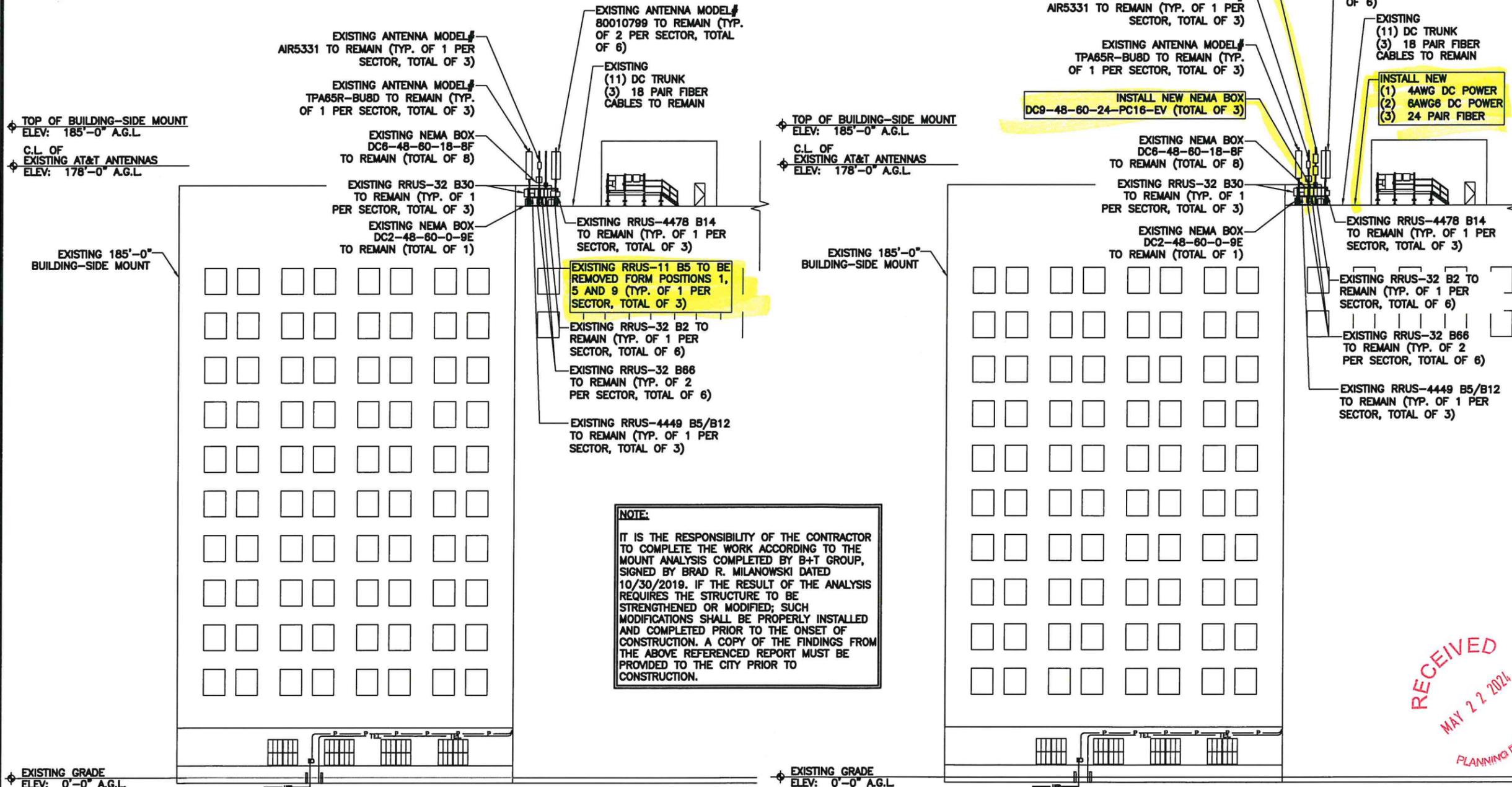
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 With: Condition(s) / Variance
 Page 5 of 12

PREPARED BY
MasTec
 Network Solutions
 1151 SE CARY PARKWAY,
 SUITE 101 CARY, NC 27518

CLIENT

 1700 CANTRELL ROAD,
 LITTLE ROCK, AR 72223

REGISTERED PROFESSIONAL ENGINEER
 RAPHAEEL MOHAMED
 22288
 OKLAHOMA
 DATE SIGNED: 03/22/24
 MASTEC NETWORK SOLUTIONS OKLAHOMA FIRM NO. 7792 FIRM REGISTRATION RENEWAL 06/30/2024
 PE LICENSE RENEWAL 10/31/2024



NOTE:
 IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE WORK ACCORDING TO THE MOUNT ANALYSIS COMPLETED BY B+T GROUP, SIGNED BY BRAD R. MILANOWSKI DATED 10/30/2019. IF THE RESULT OF THE ANALYSIS REQUIRES THE STRUCTURE TO BE STRENGTHENED OR MODIFIED; SUCH MODIFICATIONS SHALL BE PROPERLY INSTALLED AND COMPLETED PRIOR TO THE ONSET OF CONSTRUCTION. A COPY OF THE FINDINGS FROM THE ABOVE REFERENCED REPORT MUST BE PROVIDED TO THE CITY PRIOR TO CONSTRUCTION.

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① TOWER ELEVATION (EXISTING) SCALE: 1/16" = 1'-0" 11"x17" SCALE: 1/32" = 1'-0" 22"x34" SCALE: 1/16" = 1'-0"

② TOWER ELEVATION (PROPOSED) SCALE: 1/16" = 1'-0" 11"x17" SCALE: 1/32" = 1'-0" 22"x34" SCALE: 1/16" = 1'-0"

FOR CONSTRUCTION

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 SITE COORDINATES: 35.468318° / -97.515443°

SHEET TITLE: STRUCTURE ELEVATIONS
 SHEET NUMBER: C-4



DATE SIGNED:
03/22/24

MASTECC NETWORK SOLUTIONS OKLAHOMA FIRM
NO. 7792 FIRM REGISTRATION RENEWAL
06/30/2024
PE LICENSE RENEWAL 10/31/2024

MASTECC NETWORK SOLUTIONS IS REGISTERED IN OK

FOR CONSTRUCTION

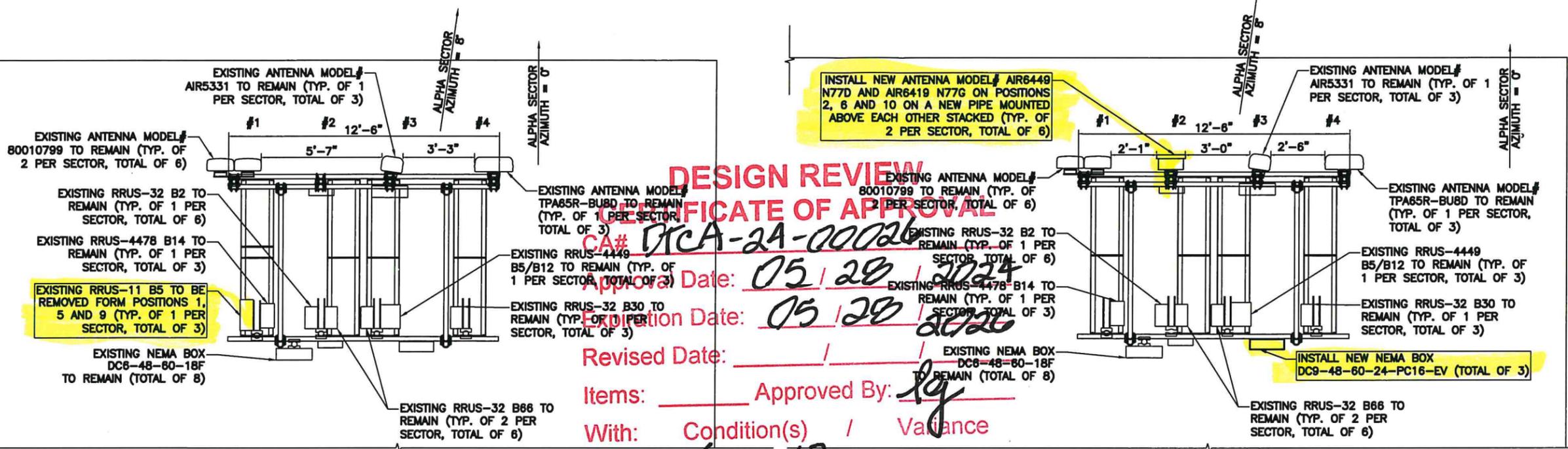
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SITE NUMBER: OKL01058
SITE ADDRESS: 120 NORTH ROBINSON AVENUE
OKLAHOMA CITY, OK 73102
SITE COORDINATES: 35.468318° / -97.515443°

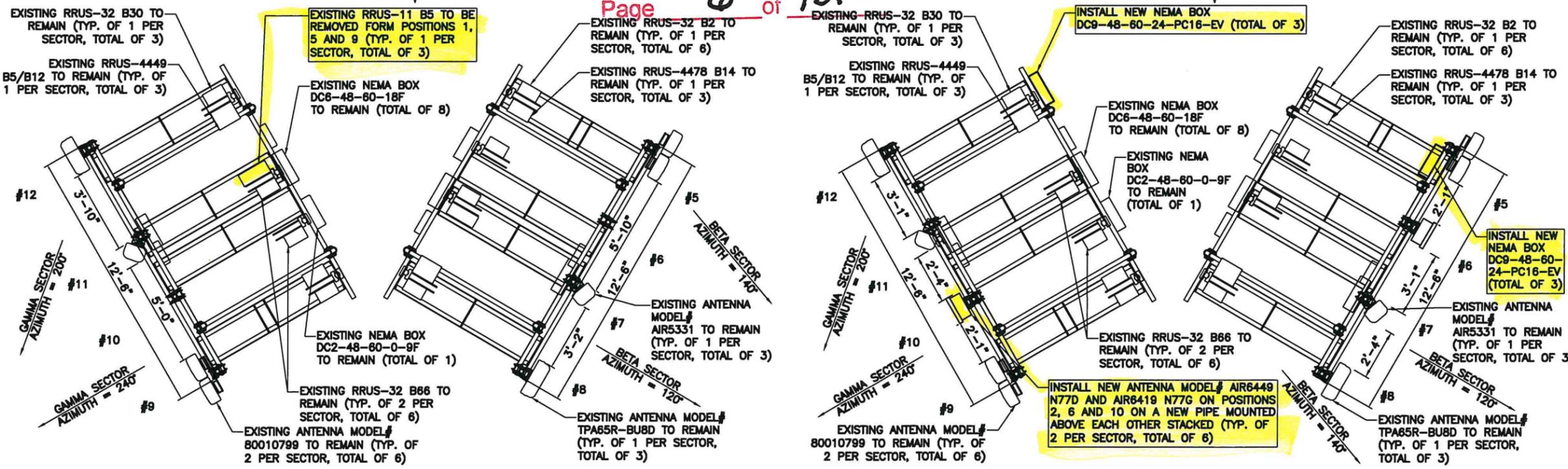
SHEET TITLE: ENLARGED ANTENNA PLAN

SHEET NUMBER: C-5



DESIGN REVIEW
CERTIFICATE OF APPROVAL
CA# DCA-24-00026
Approval Date: 05/28/2024
Expiration Date: 05/28/2026
Revised Date: / /
Items: Approved By: [Signature]
With: Condition(s) / Variance

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① ANTENNA PLAN (EXISTING)
SCALE: 3/8" = 1'-0"

11"x17" SCALE: 3/16" = 1'-0"
22"x34" SCALE: 3/8" = 1'-0"

② ANTENNA PLAN (PROPOSED)
SCALE: 3/8" = 1'-0"

11"x17" SCALE: 3/16" = 1'-0"
22"x34" SCALE: 3/8" = 1'-0"



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**DESIGN REVIEW
CERTIFICATE OF APPROVAL**

CA# DCA-24-00026

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Revised Date: / /

THE DESIGN SHOWN ON THESE DRAWINGS IS BASED ON INFORMATION GATHERED FROM AT&T RFDS AT&T RFDS V2021_1.00 DATED 04/11/2023.

PREPARED BY: **MasTec Network Solutions**
1151 SE CARY PARKWAY, SUITE 101 CARY, NC 27518

CLIENT: **AT&T Mobility**
1700 CANTRELL ROAD, LITTLE ROCK, AR 72223



DATE SIGNED: 03/22/24
MASTEC NETWORK SOLUTIONS OKLAHOMA FIRM NO. 7792 FIRM REGISTRATION RENEWAL 06/30/2024 PE LICENSE RENEWAL 10/31/2024

SECTOR	ANTENNA TECHNOLOGY	ANTENNA POSITION	MODEL	RAD CENTER (AGL)	EXISTING						
					Items: AZIMUTH	COAX CABLES	OTHER CABLES	TMA'S	TOWER DIPLEXERS	RRU'S	OTHER DEVICES
ALPHA	LTE-700 / 1900 / AWS / UMTS-850	#1	(2) 80010799	178'-0"	0°	N/A	(4) DC TRUNK (1) 18 PAIR FIBER	N/A	N/A	(1) RRUS-11 B5 (1) 4478 B14 (1) RRUS-32 B2 (2) RRUS-32 B66	(3) DC6-48-60-18-8F
	N/A	#2	N/A								
	5G-CBAND	#3	(1) AIR5331								
	LTE-700 / 850 / WCS	#4	(1) TPA65R-BU8D								
BETA	LTE-700 / 1900 / AWS / UMTS-850	#5	(2) 80010799	178'-0"	120°	N/A	(3) DC TRUNK (1) 18 PAIR FIBER	N/A	N/A	(1) RRUS-11 B5 (1) 4478 B14 (1) RRUS-32 B2 (2) RRUS-32 B66	(2) DC6-48-60-18-8F (1) DC2-48-60-0-9E
	N/A	#6	N/A								
	5G-CBAND	#7	(1) AIR5331								
	LTE-700 / 850 / WCS	#8	(1) TPA65R-BU8D								
GAMMA	LTE-700 / 1900 / AWS / UMTS-850	#9	(2) 80010799	178'-0"	240°	N/A	(4) DC TRUNK (1) 18 PAIR FIBER	N/A	N/A	(1) RRUS-11 B5 (1) 4478 B14 (1) RRUS-32 B2 (2) RRUS-32 B66	(3) DC6-48-60-18-8F
	N/A	#10	N/A								
	5G-CBAND	#11	(1) AIR5331								
	LTE-700 / 850 / WCS	#12	(1) TPA65R-BU8D								

SECTOR	ANTENNA TECHNOLOGY	ANTENNA POSITION	MODEL	RAD CENTER (AGL)	AZIMUTH	PROPOSED					
						COAX CABLES	OTHER CABLES	TMA'S	TOWER DIPLEXERS	RRU'S	OTHER DEVICES
ALPHA	LTE-700 / 1900 / AWS	#1	(2) 80010799	178'-0"	0°	N/A	(4) DC TRUNK (1) 4AWG DC POWER (1) 18 PAIR FIBER (1) 24 PAIR FIBER	N/A	N/A	(1) 4478 B14 (1) RRUS-32 B2 (2) RRUS-32 B66	(3) DC6-48-60-18-8F (1) DC9-48-60-24-PC16-EV
	5G-CBAND	#2	(1) AIR6449 N77D (1) AIR6419 N77G								
	5G-CBAND	#3	(1) AIR5331								
	LTE-700 / 850 / WCS	#4	(1) TPA65R-BU8D								
BETA	LTE-700 / 1900 / AWS	#5	(2) 80010799	178'-0"	120°	N/A	(3) DC TRUNK (1) 6AWG6 DC POWER (1) 18 PAIR FIBER (1) 24 PAIR FIBER	N/A	N/A	(1) 4478 B14 (1) RRUS-32 B2 (2) RRUS-32 B66	(2) DC6-48-60-18-8F (1) DC2-48-60-0-9E (1) DC9-48-60-24-PC16-EV
	5G-CBAND	#6	(1) AIR6449 N77D (1) AIR6419 N77G								
	5G-CBAND	#7	(1) AIR5331								
	LTE-700 / 850 / WCS	#8	(1) TPA65R-BU8D								
GAMMA	LTE-700 / 1900 / AWS	#9	(2) 80010799	178'-0"	240°	N/A	(4) DC TRUNK (1) 6AWG6 DC POWER (1) 18 PAIR FIBER (1) 24 PAIR FIBER	N/A	N/A	(1) 4478 B14 (1) RRUS-32 B2 (2) RRUS-32 B66	(3) DC6-48-60-18-8F (1) DC9-48-60-24-PC16-EV
	5G-CBAND	#10	(1) AIR6449 N77D (1) AIR6419 N77G								
	5G-CBAND	#11	(1) AIR5331								
	LTE-700 / 850 / WCS	#12	(1) TPA65R-BU8D								

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SITE INFORMATION:

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SITE NUMBER: **OKL01058**
SITE ADDRESS: **120 NORTH ROBINSON AVENUE
OKLAHOMA CITY, OK 73102**
SITE COORDINATES: **35.468318° / -97.515443°**

SHEET TITLE: **RF SCHEDULE**

SHEET NUMBER: **C-6**

RECEIVED
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- NOTES:**
1. LABEL BREAKERS WITH THE FOLLOWING INFORMATION: SECTOR, FREQUENCY, TECHNOLOGY, AMPERAGE PER ATT-TP-76300.
 2. THESE ARE THE BREAKERS SIZE FOR THE RADIOS AT THE TIME OF THE DRAWINGS. YOU MUST VERIFY THE BREAKER SIZE WITH ATT-CEM-18002.
 3. USE THE BREAKER TYPE THAT MATCHES THE POWER PLANT MANUFACTURER, NO EXCEPTIONS.

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MasTec
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 1151 SE CARY PARKWAY,
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CLIENT

 1700 CANTRELL ROAD,
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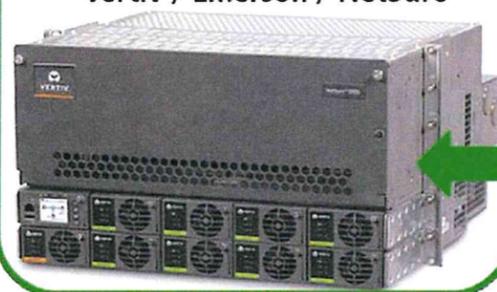
RRH BREAKER SCHEDULE							
RRH MANUFACTURER	RRH MODEL	BREAKER SIZE	DC POWER CONSUPTION	BREAKER AT&T ITEM #			BREAKER QUANTITY
				VERTIV/EMERSON	ARGUS	INFINITY / GE CRITICAL POWER	
				WHITE HANDLE	MID TRIP	TRIPPED	
ERICSSON	AIR 6449 B77D	50 AMP	1,280 W	NEQ.00710	NEQ.10366	NEQ.13054	3
ERICSSON	AIR 6419 B77G	45 AMP	1,250 W	NEQ.00710	NEQ.10366	NEQ.13054	3



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Power Plant Circuit Breakers

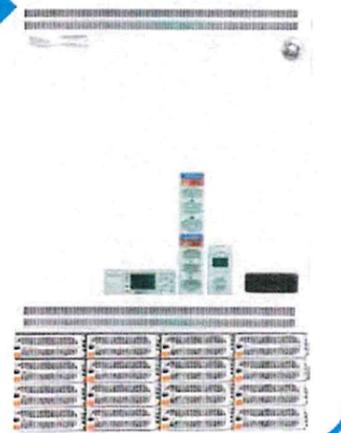
White Handle
Vertiv / Emerson / NetSure



MID TRIP
Argus / Alpha Technologies / Cordex



TRIPPED
GE Critical Power / Infinity / Lineage / Galaxy Pulsar



Manufacturer #	AT&T Item #	AMP	Power Plant Manufacturer
102276	NEQ.00706	15A	Vertiv/Emerson
102277	NEQ.00866	20A	Vertiv/Emerson
102278	NEQ.00702	25A	Vertiv/Emerson
102279	NEQ.00708	30A	Vertiv/Emerson
102282	NEQ.00710	50A	Vertiv/Emerson
470-304-10	NEQ.10359	15A	Argus
470-305-10	NEQ.10360	20A	Argus
470-306-10	NEQ.10361	25A	Argus
470-307-10	NEQ.10362	30A	Argus
470-311-10	NEQ.10366	50A	Argus
CC109143871	NEQ.13049	15A	Infinity/GE Critical Power
CC109143888	NEQ.13050	20A	Infinity/GE Critical Power
CC109143896	NEQ.13051	25A	Infinity/GE Critical Power
CC109144236	NEQ.13052	30A	Infinity/GE Critical Power
CC109144244	NEQ.13054	50A	Infinity/GE Critical Power

MASTEC NETWORK SOLUTIONS IS REGISTERED IN OK

FOR CONSTRUCTION

SUBMITTALS

REV	DATE	DESCRIPTION	BY
A	10/30/23	CD FOR REVIEW	MM
B	12/15/23	PER REDLINE	MM
C	12/19/23	PER REDLINE	MM
D	03/22/24	FINAL CD	CH

SITE INFORMATION

SITE NAME:
DOWNTOWN OKC

SITE NUMBER:
OKL01058

SITE ADDRESS:
**120 NORTH ROBINSON AVENUE
OKLAHOMA CITY, OK 73102**

SITE COORDINATES:
35.468318° / -97.515443°

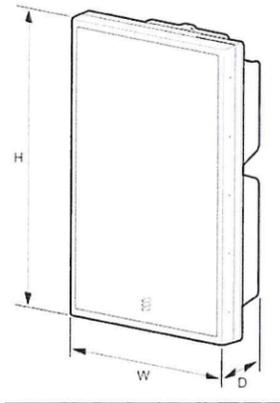
SUBMIT TITLE

RRH BREAKER SCHEDULE

SUBMIT NUMBER

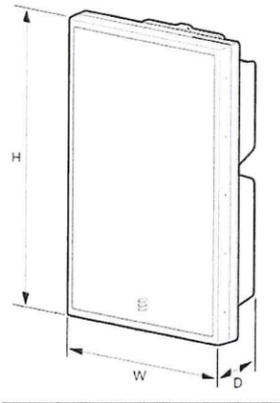
E-1

RECEIVED
MAY 22 2024
PLANNING DEPARTMENT



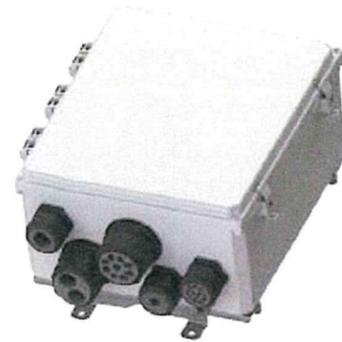
ERICSSON AIR6449 B77D	
DIMENSIONS (HxWxD)	30.4"x15.9"x8.1"
WEIGHT	81.6 lbs.
ITEM NUMBER	CEQ.49083

① ANTENNA DETAILS
N.T.S.



ERICSSON AIR6419 B77G	
DIMENSIONS (HxWxD)	30.4"x15.9"x8.1"
WEIGHT	81.6 lbs.
ITEM NUMBER	CEQ.54110

② ANTENNA DETAILS
N.T.S.



RAYCAP DC9-48-60-24-PC18-EV	
DIMENSIONS (HxWxD)	16.57"x16.34"x 8.19"
WEIGHT	34.9 lbs.
ITEM NUMBER	CEQ.44864

③ SQUID DETAILS
N.T.S.

DESIGN REVIEW
CERTIFICATE OF APPROVAL
CA# DICA-24-00026
Approval Date: 05 / 28 / 2024
Expiration Date: 05 / 28 / 2026
Revised Date: / /
Items: Approved By: lg
With: Condition(s) / Variante
Page 9 of 12

RECEIVED
MAY 22 2024
PLANNING DEPARTMENT

MasTec
Network Solutions
1151 SE CARY PARKWAY,
SUITE 101 CARY, NC 27518

CLIENT
AT&T
Mobility
1700 CANTRELL ROAD,
LITTLE ROCK, AR 72223



DATE SIGNED: 03/22/24
MASTEC NETWORK SOLUTIONS OKLAHOMA FIRM
NO. 7792 FIRM REGISTRATION RENEWAL
08/30/2024
PE LICENSE RENEWAL 10/31/2024

MASTEC NETWORK SOLUTIONS IS REGISTERED IN OK

FOR CONSTRUCTION

SUBMITTALS			
REV	DATE	DESCRIPTION	BY
A	10/30/23	CD FOR REVIEW	MIN
B	12/15/23	PER REDLINE	MIN
C	12/19/23	PER REDLINE	MIN
D	03/22/24	FINAL CD	CH

SITE INFORMATION
SITE NAME: **DOWNTOWN OKC**
SITE NUMBER: **OKLD1058**
SITE ADDRESS: **120 NORTH ROBINSON AVENUE
OKLAHOMA CITY, OK 73102**
SITE COORDINATES: **35.468316° / -97.515443°**

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
EQ-1

GENERAL CONSTRUCTION

1. THIS IS AN UNMANNED TELECOMMUNICATION FACILITY AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS IS NOT REQUIRED. POTABLE WATER OR SANITARY SERVICE IS NOT REQUIRED. NO OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES REQUIRED.
2. ANY DEVIATION THAT DIFFERS SUBSTANTIALLY FROM WHAT IS SHOWN ON THE CONSTRUCTION DRAWINGS MUST BE APPROVED BY THE ENGINEER OF RECORD. NO CHANGES THAT ALTER THE CHARACTER OF THE WORK CAN BE MADE DURING CONSTRUCTION WITHOUT ISSUING A CHANGE ORDER.
3. PLANS IN THESE DRAWING MAY HAVE BEEN CREATED BASED ON INFORMATION GATHERED FROM PREVIOUS DRAWINGS, AERIAL PHOTOGRAPHY, GIS DATA AND OR ASSOR MAPS. PLANS IN THESE DRAWINGS ARE NOT TO BE USED AS A BOUNDARY SURVEY UNLESS SPECIFICALLY NOTED
4. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS
5. THE CLIMBING ACCESS, SAFETY CLUMB, CLIMBING LADDER, STEP RUNGS ETC. OR ANY PARTS THEREOF SHALL NOT BE IMPEDED, MODIFIED OR ALTERED IN ANYWAY.
6. ALL AZIMUTHS ARE TRUE NORTH. IF A MAGNETIC COMPASS IS USED MAGNETIC DECLINATION MUST BE TAKEN INTO ACCOUNT WHEN ALIGNING ANTENNAS AND ANTENNA MOUNTS.
7. GENERAL CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK. GENERAL CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
8. THE CONTRACTOR SHALL PREPARE A COMPLETE SET OF AS-BUILT DRAWINGS, DOCUMENT ALL CONDITIONS, AND CHANGES WHILE COMPLETING THIS CONTRACT. THE AS-BUILT DRAWINGS SHALL BE SUBMITTED AT COMPLETION OF THE PROJECT.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATING, DRAINING, TRENCHES, BACKFILLING, AND REMOVAL OF EXCESS DIRT.
10. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, ORDINANCES, AND ISSUE ALL APPROPRIATE NOTICES.
11. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS. THE PUBLICATIONS LISTED BELOW ARE PART OF THIS SPECIFICATION. EACH PUBLICATION SHALL BE THE LATEST REVISION AND ADDENDUM IN EFFECT ON THE DATE. THIS SPECIFICATION IS ISSUED FOR CONSTRUCTION UNLESS OTHERWISE NOTED. EXCEPT AS MODIFIED BY THE REQUIREMENT SPECIFIED HEREIN OR THE DETAILS OF THE DRAWINGS, WORK INCLUDED IN THIS SPECIFICATION SHALL CONFORM TO THE APPLICABLE PROVISION OF THESE PUBLICATIONS.
 - 11.1. ANSI/IEEE (AMERICAN NATIONAL STANDARDS INSTITUTE)
 - 11.2. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS)
 - 11.3. ICE (INSULATED CABLE ENGINEERS ASSOCIATION)
 - 11.4. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION)
 - 11.5. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)
 - 11.6. OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION)
 - 11.7. UL (UNDERWRITERS LABORATORIES. INC.)
 - 11.8. AT&T GROUNDING STANDARD ND-00071
 - 11.9. ATT-002-290-105 ANTENNA COLLOCATION GUIDELINES
12. PLANS ARE NOT TO BE SCALED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
13. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
14. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING.
15. CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
16. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFIRM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
17. GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
18. WORK SHALL BE DONE IN A PROFESSIONAL MANNER BY COMPETENT EXPERIENCED PERSONNEL IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE.
19. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. CONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
20. CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.

21. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
22. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
23. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
24. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
25. THE CONTRACTOR SHALL OBTAIN PERMITS, LICENSES, MAKE ALL DEPOSITS, AND PAY ALL FEES REQUIRED FOR THE CONSTRUCTION PERFORMANCE FOR THE WORK UNDER THIS SECTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
26. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
27. THE GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A TO 2-A:10-B:C.
28. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, COMMUNICATIONS, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. 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 SHALL INCLUDE BUT NOT BE LIMITED TO: FALL PROTECTION, CONFINED SPACE, ELECTRICAL SAFETY, AND TRENCHING / EXCAVATION.
29. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
30. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
31. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION.
32. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
33. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE.
34. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
35. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
36. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
37. CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
38. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
39. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST GROUNDING STANDARD.
40. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
41. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER.
42. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
43. ALL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

ANTENNA MOUNTING

1. DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/TIA-222 OR APPLICABLE LOCAL CODES.
2. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS NOTED OTHERWISE.
3. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS NOTED OTHERWISE.
4. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
5. ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH PROPER HARDWARE USING WASHERS, LOCK WASHERS, LOCK NUTS AND DOUBLE NUTS AS REQUIRED AND TORQUED TO MANUFACTURER'S RECOMMENDATIONS.
6. CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND GROUNDING.
7. PRIOR TO SETTING ANTENNA AZIMUTHS AND DOWNTILTS, ANTENNA CONTRACTOR SHALL CHECK THE ANTENNA MOUNT FOR TIGHTNESS AND ENSURE THAT THEY ARE

- PLUMB. ANTENNA AZIMUTHS SHALL BE SET FROM TRUE NORTH AND BE ORIENTED WITHIN +/- 5% AS DEFINED BY THE RFDS. ANTENNA DOWNTILTS SHALL BE WITHIN +/- 0.5% AS DEFINED BY THE RFDS. REFER TO ND-00246.
8. MAINTAIN A MINIMUM OF 3 FEET SEPARATION BETWEEN ALL ANTENNAS. IF 3 FEET IS NOT OBTAINABLE BETWEEN ANY OF THE ANTENNAS, NOTIFY GENERAL CONTRACTOR CM FOR FURTHER DIRECTION.

TORQUE REQUIREMENTS

1. ALL RF CONNECTIONS SHALL BE TIGHTENED WITH A TORQUE WRENCH AND A TORQUE MARK INDICATED ON BOTH SIDES OF THE CONNECTION.
2. ALL GROUNDING AND ANTENNA HARDWARE SHALL ALL BE TIGHTENED WITH A TORQUE WRENCH AND A TORQUE MARK INDICATED ON THE NUT SIDE STARTING FROM THE THREADS TO THE SOLID SURFACE. TORQUE TO THE FOLLOWING VALUES:
 - 2.1. ALL 5/16" ANTENNA HARDWARE TIGHTENED TO 9 FT-LBS.
 - 2.2. ALL 1/2" ANTENNA HARDWARE TIGHTENED TO 43 FT-LBS.
 - 2.3. ALL DIN-TYPE CONNECTIONS TIGHTENED TO 18-22 FT-LBS.
 - 2.4. ALL N-TYPE CONNECTIONS TIGHTENED TO 15-20 IN-LBS.

COAXIAL CABLE NOTES

1. TYPES AND SIZES OF THE ANTENNA CABLE ARE BASED ON ESTIMATED LENGTHS. PRIOR TO ORDERING CABLE, CONTRACTOR SHALL VERIFY ACTUAL LENGTH BASED ON CONSTRUCTION LAYOUT AND NOTIFY THE PROJECT MANAGER IF ACTUAL LENGTHS EXCEED ESTIMATED LENGTHS.
2. CONTRACTOR SHALL VERIFY THE DOWNTILTS OF EACH ANTENNA WITH A DIGITAL LEVEL.
3. CONTRACTOR SHALL CONFIRM COAX COLOR CODING PRIOR TO CONSTRUCTION. REFER TO "ANTENNA SYSTEM LABELING STANDARD" ND-00027 LATEST VERSION.
4. USE 1/2" COAX ON ANTENNAS UNLESS OTHERWISE SPECIFIED.
5. FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SEALANT TO PREVENT WATER INTRUSION.
6. ALL COAXIAL CABLE SHALL BE SECURED TO THE DESIGNED SUPPORT STRUCTURE, IN AN APPROVED MANNER, AT DISTANCES NOT TO EXCEED 4'-0".
7. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS REGARDING BOTH THE INSTALLATION AND GROUNDING OF ALL COAXIAL CABLES, CONNECTORS, ANTENNAS, AND ALL OTHER EQUIPMENT.
8. ALL OUTDOOR RF CONNECTIONS SHALL BE WEATHERPROOFED USING COLD SHRINK OR HEAT SHRINK ON ALL ANTENNA AND RADIO CONNECTIONS.

GENERAL CABLE AND EQUIPMENT NOTES

1. PRIOR TO INSTALLATION CONTRACTOR SHALL VERIFY MAKE AND MODEL OF ANTENNA, DIPLEXER, AND COAX CONFIGURATION.
2. ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
3. CONTRACTOR SHALL REFERENCE THE STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION/ROUTING.
4. IF REQUIRED TO PAINT ANTENNAS AND/OR COAX:
 - 4.1. TEMPERATURE SHALL BE ABOVE 50° F.
 - 4.2. PAINT COLOR MUST BE APPROVED BY BUILDING OWNER/LANDLORD.
 - 4.3. FOR REGULATED TOWERS, FAA/FCC APPROVED PAINT IS REQUIRED.
 - 4.4. DO NOT PAINT OVER COLOR CODING OR ON EQUIPMENT MODEL NUMBERS.
5. NO BOLT THREADS TO PROTRUDE MORE THAN 1-1/2".

**DESIGN REVIEW
CERTIFICATE OF APPROVAL**

CA# DTCA-24-00024
 Approval Date: 05/28/2024
 Expiration Date: 05/28/2024
 Revised Date: / /
 Items: Approved By: [Signature]
 With: Condition(s) / Variance
 Page 10 of 12

RECEIVED
MAY 22 2024
PLANNING DEPARTMENT



1151 SE CARY PARKWAY,
SUITE 101 CARY, NC 27518



1700 CANTRELL ROAD,
LITTLE ROCK, AR 72223



DATE SIGNED:
05/22/24

MASTEC NETWORK SOLUTIONS OKLAHOMA FIRM
NO. 7792 FIRM REGISTRATION RENEWAL
06/30/2024
PE LICENSE RENEWAL 10/31/2024

MASTEC NETWORK SOLUTIONS IS REGISTERED IN OK

FOR CONSTRUCTION

SUBMITTALS

REV	DATE	DESCRIPTION	BY
A	10/30/23	CD FOR REVIEW	MM
B	12/15/23	PER REDLINE	MM
C	12/18/23	PER REDLINE	MM
D	03/22/24	FINAL CD	CH

SITE INFORMATION:
 SITE NAME: **DOWNTOWN OKC**
 SITE NUMBER: **OKL01058**
 SITE ADDRESS: **120 NORTH ROBINSON AVENUE
OKLAHOMA CITY, OK 73102**
 SITE COORDINATES: **35.468318° / -97.515443°**

SHEET TITLE: **GENERAL NOTES**

SHEET NUMBER: **GN-1**

ELECTRICAL NOTES

- DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. DRAWING SHALL NOT BE SCALED TO DETERMINE DIMENSIONS.
- ALL ELECTRICAL EQUIPMENT UNDER THIS CONTRACT SHALL BE PROPERLY TESTED, ADJUSTED, AND ALIGNED BY THE CONTRACTOR
- THE CONTRACTOR SHALL FURNISH TO THE OWNER WITH CERTIFICATES OF A FINAL INSPECTION AND APPROVAL FROM THE INSPECTION AUTHORITIES HAVING JURISDICTION.
- ALL MATERIALS AND EQUIPMENT SHALL BE PROPERLY LISTED, NEW, AND FREE FROM DEFECTS.
- IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PERFORM A SHORT CIRCUIT ANALYSIS AND LABEL ALL DEVICE ACCORDING TO THE NATIONAL ELECTRICAL CODE. ALL OVER-CURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING EQUAL TO OR GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 10,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT.
- EXOTHERMIC WELDED CONNECTIONS SHALL BE PROVIDED IN KIT FORM AND SELECTED FOR THE SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND OTHER ITEMS TO BE CONNECTED.
- THE CONTRACTOR SHALL PROVIDE OTHER MATERIALS, THOUGH NOT SPECIFICALLY DESCRIBED, WHICH ARE REQUIRED FOR A COMPLETELY OPERATIONAL SYSTEM AND PROPER INSTALLATION OF THE WORK.
- PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY NEC.
- ALL PANEL DIRECTORIES SHALL BE MACHINE PRINTED.
- EQUIPMENT SHALL BE TIGHTLY COVERED AND PROTECTED AGAINST DIRT OR WATER, AND AGAINST CHEMICAL OR MECHANICAL INJURY DURING INSTALLATION AND CONSTRUCTION PERIODS.
- ALL ELECTRICAL EQUIPMENT SHALL BE ADJUSTED, ALIGNED AND TESTED BY THE CONTRACTOR AS REQUIRED TO PRODUCE THE INTENDED PERFORMANCE.
- INSTALL DISCONNECT SWITCHES LEVEL AND PLUMB. CONNECT TO WIRING SYSTEM AND GROUNDING SYSTEM AS INDICATED.

GROUNDING NOTES:

- ALL GROUNDING COMPONENTS SHALL BE TINNED AND GROUNDING CONDUCTOR SHALL BE 2 AWG BARE, SOLID, TINNED, COPPER. ABOVE GRADE GROUNDING CONDUCTORS SHALL BE STRANDED GREEN INSULATED WHERE NOTED.
- CONNECTORS SHALL BE HIGH-CONDUCTIVITY, HEAVY DUTY, LISTED AND LABELED AS GROUNDING CONNECTORS FOR THE MATERIALS USED. USE TWO-HOLE COMPRESSION LUGS WITH HEAT SHRINK FOR MECHANICAL CONNECTIONS.
- GROUND RODS SHALL BE COPPER-CLAD STEEL WITH HIGH-STRENGTH STEEL CORE AND ELECTROLYTIC-GRADE COPPER OUTER SHEATH, MOLTEN WELDED TO CORE, 5/8"x10'-0". ALL GROUNDING RODS SHALL BE INSTALLED WITH INSPECTION SLEEVES.
- ALL PROPOSED GROUND BAR DOWNLEADS ARE TO BE TERMINATED TO THE EXISTING ADJACENT GROUND BAR DOWNLEADS A MINIMUM DISTANCE OF 4'-0" BELOW GROUND BAR. TERMINATIONS MAY BE EXOTHERMIC OR COMPRESSION.
- INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS IN COMPLIANCE WITH THE SPECIFICATIONS AND NEC. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED AT ALL JUNCTION BOXES, PULLBOXES, DISCONNECT SWITCHES, STARTERS, AND EQUIPMENT CABINETS.
- ALL METALLIC PARTS OF ELECTRICAL EQUIPMENT WHICH DO NOT CARRY CURRENT SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING MANUFACTURER, AT&T GROUNDING STANDARD ND-00071, ND-00135, AND THE NATIONAL ELECTRICAL CODE.
- PROVIDE ELECTRICAL GROUNDING AND BONDING SYSTEM INDICATED WITH ASSEMBLY OF MATERIALS, INCLUDING GROUNDING ELECTRODES, BONDING JUMPERS AND ADDITIONAL ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
- ALL GROUNDING CONDUCTORS SHALL PROVIDE A STRAIGHT DOWNWARD PATH TO GROUND WITH GRADUAL BEND AS REQUIRED. GROUNDING CONDUCTORS SHALL NOT BE LOOPED OR SHARPLY BENT. ROUTE GROUNDING CONNECTIONS AND CONDUCTORS TO GROUND IN THE SHORTEST AND STRAIGHTEST PATHS POSSIBLE TO MINIMIZE TRANSIENT VOLTAGE RISES.
- BUILDINGS AND/OR NEW TOWERS GREATER THAN 75 FEET IN HEIGHT AND 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 AWG 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).
- TIGHTEN GROUNDING AND BONDING CONNECTORS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUES FOR CONNECTORS AND BOLTS. WHERE MANUFACTURER'S TORQUING REQUIREMENTS ARE NOT AVAILABLE, TIGHTEN CONNECTIONS TO COMPLY WITH TIGHTENING TORQUE VALUES SPECIFIED IN UL TO ASSURE PERMANENT AND EFFECTIVE GROUNDING.
- CONTRACTOR SHALL VERIFY THE LOCATIONS OF GROUNDING TIE-IN-POINTS TO THE EXISTING GROUNDING SYSTEM. ALL UNDERGROUND GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELD PROCESS AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- ALL GROUNDING CONNECTIONS SHALL BE INSPECTED FOR TIGHTNESS. EXOTHERMIC WELDED CONNECTIONS SHALL BE APPROVED BY THE INSPECTOR HAVING JURISDICTION BEFORE BEING PERMANENTLY CONCEALED.
- APPLY CORROSION-RESISTANCE FINISH TO FIELD CONNECTIONS AND PLACES

- WHERE FACTORY APPLIED PROTECTIVE COATINGS HAVE BEEN DESTROYED. USE KOPR-SHIELD ANTI-OXIDATION COMPOUND ON ALL COMPRESSION GROUNDING CONNECTIONS.
- A SEPARATE, CONTINUOUS, INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUITS.
 - BOND ALL INSULATED GROUNDING BUSHINGS WITH A BARE 6 AWG GROUNDING CONDUCTOR TO A GROUND BUS.
 - DIRECT BURIED GROUNDING CONDUCTORS SHALL BE INSTALLED AT A NOMINAL DEPTH OF 36" MINIMUM BELOW GRADE, OR 6" BELOW THE FROST LINE, USE THE GREATER OF THE TWO DISTANCES.
 - ALL GROUNDING CONDUCTORS EMBEDDED IN OR PENETRATING CONCRETE SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT.
 - THE INSTALLATION OF CHEMICAL ELECTROLYTIC GROUNDING SYSTEM IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. REMOVE SEALING TAPE FROM LEACHING AND BREATHER HOLES. INSTALL PROTECTIVE BOX FLUSH WITH GRADE.
 - DRIVE GROUND RODS UNTIL TOPS ARE A MINIMUM DISTANCE OF 36" DEPTH OR 6" BELOW FROST LINE, USING THE GREATER OF THE TWO DISTANCES.
 - IF COAX ON THE ICE BRIDGE IS MORE THAN 6 FT. FROM THE GROUNDING BAR AT THE BASE OF THE TOWER, A SECOND GROUNDING BAR WILL BE NEEDED AT THE END OF THE ICE BRIDGE, TO GROUND THE COAX CABLE GROUNDING KITS AND IN-LINE ARRESTERS.
 - CONTRACTOR SHALL REPAIR, AND/OR REPLACE, EXISTING GROUNDING SYSTEM COMPONENTS DAMAGED DURING CONSTRUCTION AT THE CONTRACTORS EXPENSE.

TESTING NOTES:

- CERTIFIED PERSONNEL USING CERTIFIED EQUIPMENT SHALL PERFORM REQUIRED TESTS AND SUBMIT WRITTEN TEST REPORTS UPON COMPLETION.
- WHEN MATERIAL AND/OR WORKMANSHIP IS FOUND NOT TO COMPLY WITH THE SPECIFIED REQUIREMENTS, THE NON-COMPLYING ITEMS SHALL BE REMOVED FROM THE PROJECT SITE AND REPLACED WITH ITEMS COMPLYING WITH THE SPECIFIED REQUIREMENTS PROMPTLY AFTER RECEIPT OF NOTICE FOR NON-COMPLIANCE.
- ALL FEEDERS SHALL HAVE INSULATION TESTED AFTER INSTALLATION, BEFORE CONNECTION TO DEVICES. THE CONDUCTORS SHALL TEST FREE FROM SHORT CIRCUITS AND GROUNDS. TESTING SHALL BE FOR ONE MINUTE USING 1000V DC. PROVIDE WRITTEN DOCUMENTATION FOR ALL TEST LISTED TO CONTRACTOR. PRIOR TO ENERGIZING CIRCUITRY, TEST WIRING DEVICES FOR ELECTRICAL CONTINUITY AND PROPER POLARITY CONNECTIONS.
- MEASURE AND RECORD VOLTAGES BETWEEN PHASES AND BETWEEN PHASE CONDUCTORS AND NEUTRALS. SUBMIT A REPORT OF MAXIMUM AND MINIMUM VOLTAGES.

**DESIGN REVIEW
CERTIFICATE OF APPROVAL**

CA# DICA-24-00026

Approval Date: 05/28/2024

Expiration Date: 05/29/2026

Revised Date: / /

Items: Approved By: lg

With: Condition(s) / Variance

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PREPARED BY
MasTec
Network Solutions
1151 SE CARY PARKWAY,
SUITE 101 CARY, NC 27518

CLIENT

1700 CANTRELL ROAD,
LITTLE ROCK, AR 72223

DATE SIGNED:
03/22/24
MASTEC NETWORK SOLUTIONS OKLAHOMA FIRM
NO. 7792 FIRM REGISTRATION RENEWAL
06/30/2024
PE LICENSE RENEWAL 10/31/2024
MASTEC NETWORK SOLUTIONS IS REGISTERED IN OK

FOR CONSTRUCTION

SUBMITTALS

REV	DATE	DESCRIPTION	BY
A	10/30/23	CD FOR REVIEW	MM
B	12/15/23	PER REDLINE	MM
C	12/19/23	PER REDLINE	MM
D	03/22/24	FINAL CD	CH

SITE INFORMATION
SITE NAME:
DOWNTOWN OKC
SITE NUMBER:
OKL01058
SITE ADDRESS:
**120 NORTH ROBINSON AVENUE
OKLAHOMA CITY, OK 73102**
SITE COORDINATES:
35.468318' / -97.515443'

SHEET TITLE
ELECTRICAL NOTES

SHEET NUMBER
EN-1

DESIGN REVIEW CERTIFICATE OF APPROVAL

CA# DCA-24-00026

Approval Date: 05/28/2024

Expiration Date: 05/28/2026

Revised Date: _____

Items: _____ Approved By: lg

With: Condition(s) / Variance

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SURVEY OF A LEASE SITE LYING WITHIN A PART OF
LOTS 21-31, BLOCK 22, ORIGINAL PLAT OF OKLAHOMA CITY,
OKLAHOMA COUNTY, OKLAHOMA
PROPERTY DESCRIPTION PER PREVIOUSLY RECORDED LEGAL

PARENT TRACT DESCRIPTION
Parcel 1:
(Center/West)
All of Lots 21 through 31, both inclusive, in Block 22, Original Plat of Oklahoma City, Oklahoma County, Oklahoma, as shown by the plat recorded in Book 1 of Plats, page 2,
and
(East)
Lots 32 through 36, both inclusive, in Block 22, Original Plat of Oklahoma City, Oklahoma County, Oklahoma, as shown by the plat recorded in Book 1 of Plats, Page 2, and part of the vacated alley east of Lot 34 and west of Lots 35 through 39, in Block 22, Original Plat of Oklahoma City, being more particularly described as follows:
BEGINNING at the Northeast corner of said Lot 34; THENCE North 90°00'00" East 10.00 feet to the centerline of the vacated alley; THENCE South 00°00'00" West and parallel to the East line of said Lot 34 and on the centerline of said alley a distance of 75.00 feet; THENCE North 90°00'00" East a distance of 10.00 feet to the Northwest corner of said Lot 36; THENCE South 00°00'00" West on the West line of said Lot 36 and 35 a distance of 65.00 feet to the Southwest corner of said Lot 35; THENCE North 90°00'00" West a distance of 20.00 feet to the Southeast corner of said Lot 34; THENCE North 00°00'00" East on the East line of said Lot 34 a distance of 140.00 feet to the point of beginning.

Parcel 2:
That certain portion of the buildings and improvements known as the "Center-West Building" and the "East Building", each being a part of what is known as the "First National Center" (i) which are located in the airspace above the alley that runs through Block 22, Original Plat of Oklahoma City, Oklahoma County, Oklahoma, from Robinson Avenue to Broadway Avenue (hereafter, the "East-West Alley"), to the extent the same extend to the south above the East-West Alley from Lots 28 through 35 of Block 22, Original Plat of Oklahoma City, Oklahoma County, Oklahoma, and (ii) the five supporting columns located on the North 2.45 feet of Lots 4, 5, 6, 7 and 8 in said Block 22, Original Plat of Oklahoma City, Oklahoma County, Oklahoma, and (iii) that portion of the Center-West Building and East Building which is located on the surface of the approximately North 7.27 feet of Lots 10, 11, 12 and 13 of Block 22, Original Plat of Oklahoma City, Oklahoma County, Oklahoma (the fee interest to the North 2.45 feet of Lots 4, 5, 6, 7 and 8 in said Block 22 and the fee interest to the North 7.27 feet of Lots 10, 11, 12 and 13 of said Block 22 is not included in this Parcel 2).

Parcel 3:
All those certain easements appurtenant to Parcel 1 and Parcel 2 set forth in the instrument dated June 24, 1998 and recorded in Book 7342, Page 223, of the records of the County Clerk of Oklahoma County, Oklahoma, entitled "Grant of Terminable Easements".

Parcel 4:
All those certain easements appurtenant to a portion of Parcel 1 set forth in the instrument dated May 1, 1981 and recorded in Book 4926, Page 780, of the records of the County Clerk of Oklahoma County, Oklahoma, entitled "Reciprocal Easement Agreement".
(QUIT CLAIM DEED RECORDED IN INSTRUMENT # 2017011010042410, DEED RECORDS OF OKLAHOMA COUNTY, OKLAHOMA)

SURVEY OF A LEASE SITE LYING WITHIN A PART OF LOTS 21-31, BLOCK 22, ORIGINAL PLAT OF OKLAHOMA CITY, OKLAHOMA COUNTY, OKLAHOMA

LEASE SITE DESCRIPTION
A tract of land lying in and being part of Lots 29 through 34, both inclusive, Block 22, Original Plat of Oklahoma City, Oklahoma County, and being further described in Instruments Number 2017011010042410, Deed Records of Oklahoma County, Oklahoma; Said tract being more particularly described as follows:
Commencing at 16 Penny Nail found for the Northwest corner of Lot 21, said Block 22; Thence S 89°39'10" E on the North line of said Block 22, a distance of 369.13 feet to a point; Thence S 01°20'50" W perpendicular to said North line, a distance of 124.97 feet to a point; said point being the point of beginning; Thence S 01°18'50" W a distance of 12.00 feet to a point for corner; Thence N 88°41'10" W a distance of 17.50 feet to a point for corner; Thence N 01°18'50" E a distance of 12.00 feet to a point for corner; Thence S 88°41'10" E a distance of 17.50 feet to the point of beginning, containing 210.00 square feet or 0.005 acres, more or less.

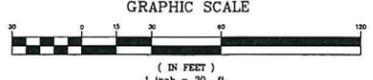
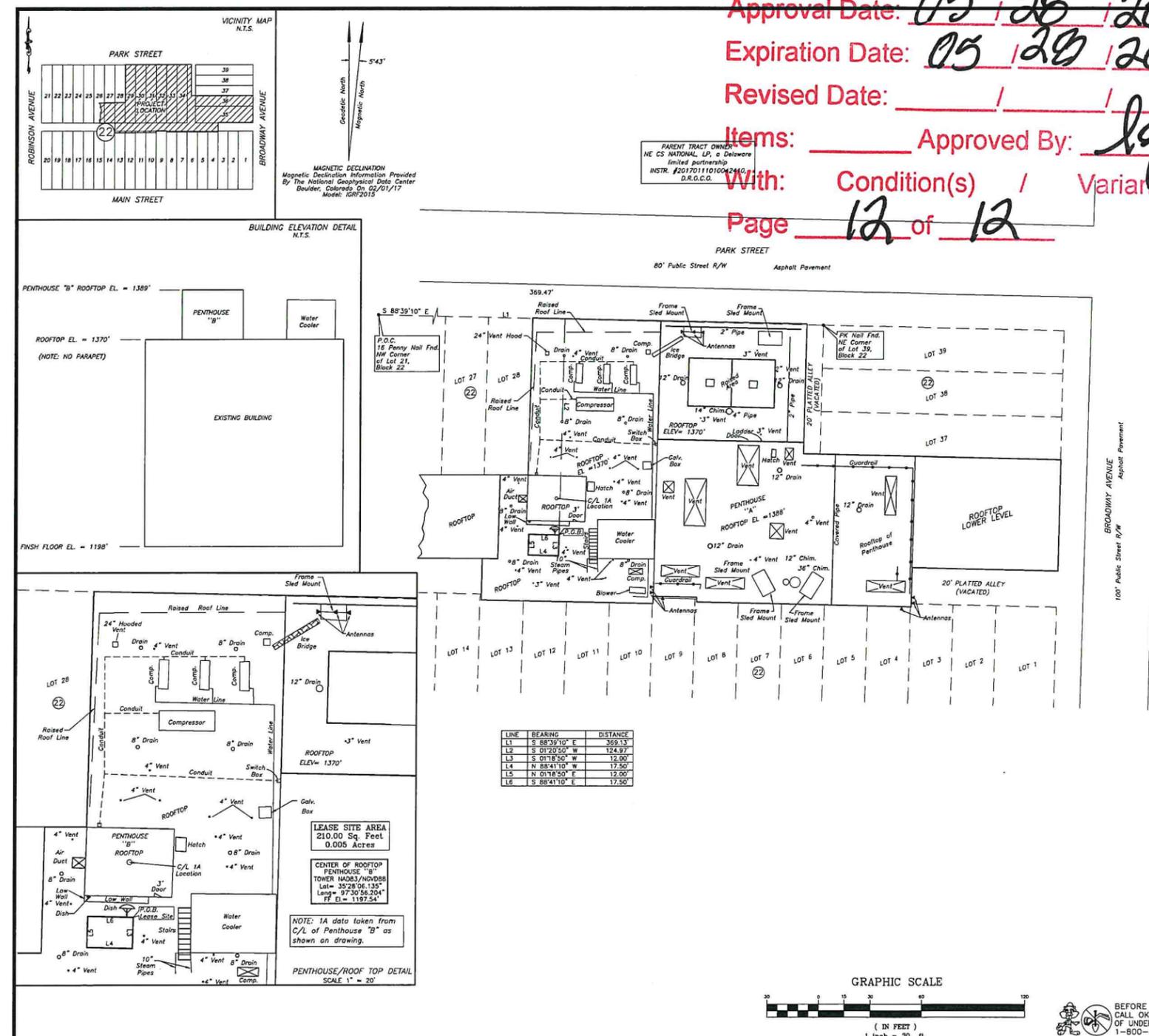
ACCESS NOTE: The Lessee has common access via the Parent Tract to the Public Right of Ways to the North and to the East.
UTILITY NOTE: The Lessee has common use of the utilities within the Parent Tract Boundary.

I, VIRGIL C. VAUGHN, a licensed Land Surveyor, certify that this survey meets the minimum standards of accuracy as set by the Oklahoma State Board of Registration of Land Surveyors.

Virgil C. Vaughn, L.S. #405 Date: 03-20-17



- NOTES CONCERNING SURVEY:**
- The surveyor was not provided with a Title Report nor was any further research or abstracting done by the surveyor.
 - Bearings shown hereon are based on the Oklahoma State Plane Coordinate System, North Zone, NAD83 Datum.
 - The elevations shown hereon are based on the NAVD83 Datum.
 - The latitude and longitude shown hereon are based on the NAD83 Datum and meet or exceed the minimum requirements for a FCC/FAA 1A survey which is defined as plus or minus 20 feet horizontal and plus or minus 3 feet vertical. This information was established and determined by GPS on 10/11/16.
 - The Lease Site shown on this survey DOES NOT lie within the 100 year Flood plain and is located within the Flood Zone "X" per the Federal Emergency Management Agency (FEMA) as shown on the Flood Insurance Rate Map (FIRM), Community Panel Number 40097C 0241E, which bears an effective date of September 16, 2011. Flood zone determination is made through graphic plotting only and no other responsibility is herein assumed for accuracy of the base flood elevation or flood zone areas shown on the FIRM.
 - This survey does not provide any determination concerning wetlands, fault lines, toxic waste or any other environmental issues. Such matters should be directed to an expert consultant.
 - There may be additional buried or underground utilities in the area which the surveyor is unaware of and no liability for such is assumed herein. OKLAHOMA ONE-CALL SYSTEM, INC. (1-800-522-6543)
 - THIS IS NOT A BOUNDARY SURVEY OF THE PARENT TRACT.



BEFORE YOU DIG !!!
CALL OKIE FOR LOCATION
OF UNDERGROUND UTILITIES.
1-800-522-6543

911 ADDRESS: TBD Bearings Based on O.S.P.C. Established by GPS on: 02/01/17
Datum: Horiz: NAD83 Oklahoma North Zone Vert: NAVD83

NO.	REVISION	DATE	BY	DATE SURVEYED:	DATE DRAFTED:	LEGEND	PREPARED BY:	PREPARED FOR:	SURVEY OF:	DRAWING NO.
1.	FINAL SURVEY ISSUED TO CLIENT.	02/20/17	GLH	02/01/17	02/03/17	☆ LIGHT POLE (U/G ELEC) ○ LIGHT POLE (O/H ELEC) T POWER POLE GUY LINE -O/H- OVERHEAD ELECTRIC -U/G- U/G ELECTRIC -W- WATER LINE W WATER METER W WATER VALVE	H&S SURVEYING, INC. Surveying and Telecommunication Company SERVING THE CENTRAL U.S. 201 N. BICKFORD, EL RENO, OK. 73036 PH: (405) 262-0249 - FAX: (405) 262-5107 CA 1600 (LS) EXPIRES: 6/30/17 HSSURVEYING1@AOL.COM		OK1058/DOWNTOWN OKC LOTS 13 AND 14, BLOCK 29, WHITAKER ADDITION MAYES COUNTY, OKLAHOMA	SV-1 SHEET 1 OF 1
2.	REVISE PARENT TRACT PER CLIENT.	3/30/17	GLH			-T- TELEPHONE LINE □ TELEPHONE PEDESTAL □ ELECTRIC PEDESTAL -X- FENCE LINE -S- STORM SEWER MANHOLE -D- STORM SEWER LINE ○ 1/2" IRON ROD WITH CAP SET ● IRON ROD FOUND				
2.	FINAL SURVEY RE-ISSUED TO CLIENT.	3/30/17	GLH							

RECEIVED
MAY 22 2024
PLANNING DEPARTMENT