

MESA & FILLMORE

COL02018

10148708



at&t

LTE-4C/5C/4T4R

MONOPINE

LEGAL DESCRIPTION

LOT 1 BLK 1 UPPER MESA SUB FIL NO 1 COLO SPGS

ENGINEERING

2009 INTERNATIONAL BLDG. CODE OR LATEST ADOPTED EDITION
2014 NATIONAL ELECTRIC CODE OR LATEST ADOPTED EDITION
2011 PIKE'S PEAK REGIONAL BUILDING CODE
TIA/EIA-222-G OR LATEST EDITION

GENERAL NOTES

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 DRAINAGE. NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

SITE INFORMATION

PROPERTY OWNER: CITY OF COLORADO SPRINGS
ADDRESS: 30 SOUTH NEVADA AVENUE
COLORADO SPRINGS, CO 80903

TOWER OWNER: CITY OF COLORADO SPRINGS

PAGE ID: MRUTH024798, MRUTH024874,
MRUTH024772

COUNTY: EL PASO

LATITUDE (NAD 83): 38° 52' 17.35" N

LONGITUDE (NAD 83): 104° 51' 40.43" W

ZONING JURISDICTION: COLORADO SPRINGS

ZONING DISTRICT: PF

PARCEL NUMBER: 7335302063

OCCUPANCY GROUP: U

CONSTRUCTION TYPE: V-B

POWER COMPANY: XCEL ENERGY

TELEPHONE COMPANY: CENTURYLINK

SITE ACQUISITION MANAGER: HEATHER KURTH

(303) 264-0522

CONSTRUCTION MANAGER: JOHN VAUGHAN

(720) 412-4989

RF ENGINEER: DAVID BLACK

(303) 643-3719

CONTACT INFORMATION

ENGINEER: BLACK & VEATCH CORPORATION
4600 SOUTH SYRACUSE STREET, SUITE 800
DENVER, CO 80237

CONTACT: CHRISTINE A. MALONE

PHONE: (720) 834-4420

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF THE INSTALLATION AND OPERATION OF ANTENNAS AND ASSOCIATED EQUIPMENT FOR THE AT&T WIRELESS TELECOMMUNICATIONS NETWORK.

- A. INSTALL (1) PROPOSED MONOPINE
- B. REMOVE (6) EXISTING ANTENNAS
- C. INSTALL (6) PROPOSED 8' ANTENNAS
- D. RELOCATE (3) EXISTING 12.2"x6.1"x25.2" (700MHz) RRHS
- E. INSTALL (3) PROPOSED 13.1"x7.87"x21.6" (B14 700MHz) RRHS
- F. REMOVE (3) EXISTING 1900 RRHS
- G. INSTALL (3) PROPOSED 11.97"x7.18"x21.2" (B25 1900MHz PCS) RRHS
- H. INSTALL (3) PROPOSED 11.8"x7.2"x25.8" (B66A 2100MHz AWS) RRHS
- I. RELOCATE (3) EXISTING 12.0"x8.7"x31.5" (2350MHz WCS) RRHS
- J. RELOCATE (3) EXISTING 11"x31.25" DC SURGE SUPPRESSOR
- K. INSTALL (4) PROPOSED 6" UNDERGROUND CONDUITS AND (2) PROPOSED 3" UNDERGROUND CONDUITS
- L. INSTALL (1) PROPOSED 50KW GENERATOR WITH FUEL TANK ON NEW 10'x4' CONCRETE PAD(S)

T-MOBILE: INSTALL (3) PROPOSED ANTENNAS @ 86'-0" AGL
INSTALL (2) PROPOSED 6" UNDERGROUND CONDUITS
OTHER CARRIER: FUTURE ANTENNAS @ 76'-0" CL
FUTURE UNDERGROUND CONDUITS
FUTURE CONCRETE PAD WITH GROUND EQUIPMENT

AT&T WILL CONSIDER CO-LOCATION PROPOSALS FROM OTHER COMMERCIAL RADIO PROVIDERS WITH AN INTEREST IN THIS FACILITY.

DRAWING INDEX

SHEET NO.	SHEET TITLE
1 OF 12	TITLE SHEET
2 OF 12	SITE AERIAL VICINITY
3 OF 12	EXISTING SITE PLAN
4 OF 12	PROPOSED SITE PLAN
5 OF 12	EXISTING AND PROPOSED EQUIPMENT LAYOUTS
6 OF 12	EXISTING AND PROPOSED SITE ELEVATIONS
7 OF 12	EXISTING AND PROPOSED SITE ELEVATIONS
8 OF 12	EXISTING AND PROPOSED SITE ELEVATIONS
9 OF 12	PROPOSED ENLARGED NORTHWEST ELEVATION
10 OF 12	EXISTING AND PROPOSED SITE ELEVATIONS
11 OF 12	ANTENNA LAYOUTS
12 OF 12	LEGEND AND ABBREVIATIONS

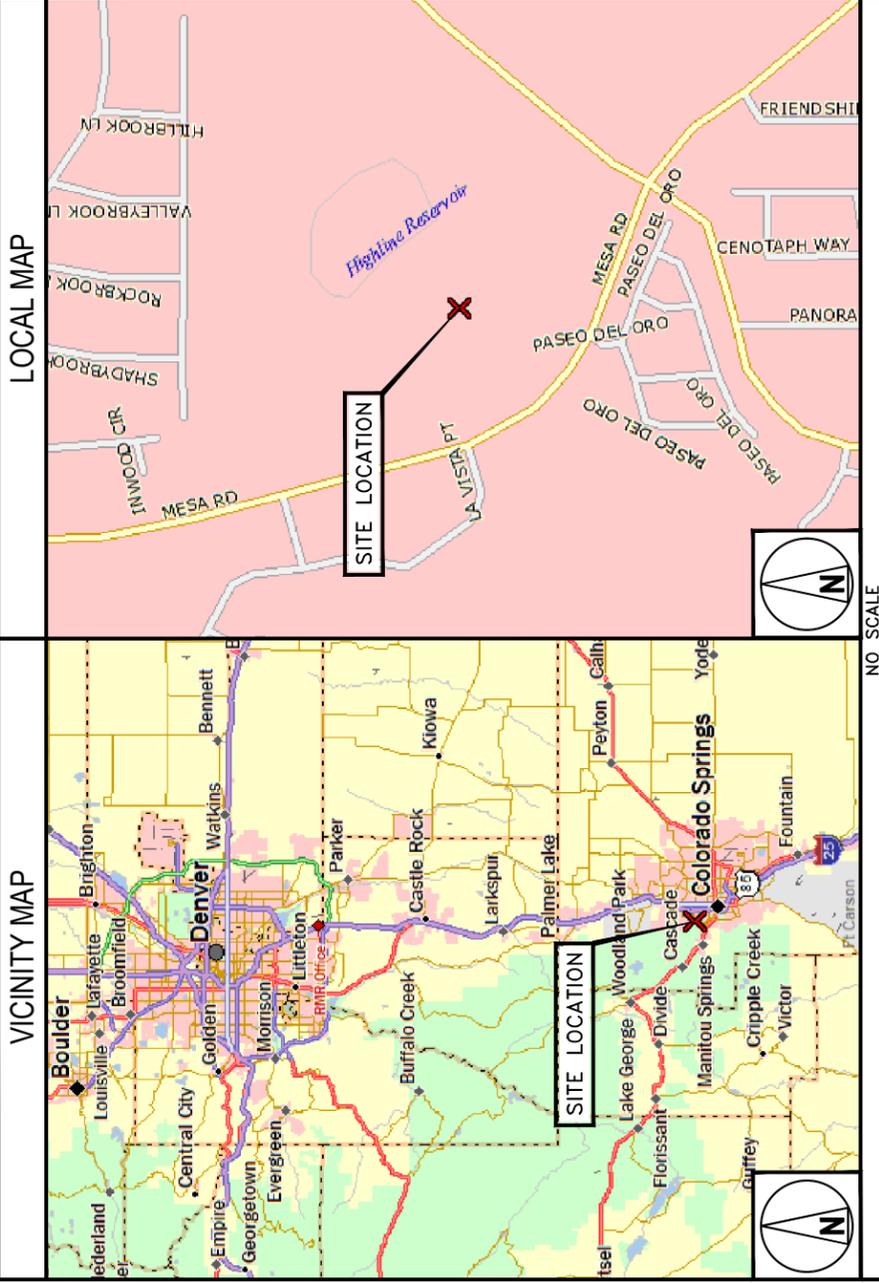
11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED

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.



UNDERGROUND SERVICE ALERT
UTILITY NOTIFICATION CENTER OF COLORADO
(800) 922-1987
WWW.UNCC.ORG

3 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION



DRIVING DIRECTIONS

DIRECTIONS FROM AT&T OFFICE:
HEAD SOUTH TOWARD INVERNESS DRIVE WEST. TURN WEST ONTO E DRY CREEK ROAD. TURN SOUTH ONTO I-25 S (US 87) RAMP. EXIT AT 145, KEEP SOUTH ONTO W FILLMORE ST RAMP. TURN WEST/SOUTH WEST ONTO W FILLMORE STREET. TURN WEST/NORTH WEST ONTO MESA ROAD.



161 INVERNESS DRIVE WEST
2ND FLOOR
ENGLEWOOD, CO 80112



BLACK & VEATCH

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SUITE 800
DENVER, COLORADO 80237

PROJECT/PHASE NO: 129051/3097

DRAWN BY: BDU

CHECKED BY: NCP

RFDS: 2.00 (11/17/17)

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C	06/25/18	CLIENT SCOPE CHANGE
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A	05/16/18	ISSUED FOR REVIEW

NOT TO BE USED FOR CONSTRUCTION

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MESA & FILLMORE
COL02018
2715 MESA ROAD
COLORADO SPRINGS, CO 80904
LTE - 4C/5C/4T4R
FILE# CPC CM1 18-00105

SHEET TITLE

TITLE SHEET

SHEET NUMBER

1 OF 12

FIGURE 1



161 INVERNESS DRIVE WEST
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SHEET TITLE
SITE AERIAL
VICINITY

SHEET NUMBER
2 OF 12



EXISTING AT&T
EQUIPMENT SHELTER
EXISTING WATER TANK
PROPOSED MONOPINE



SITE AERIAL VICINITY

1



FIGURE 1



161 INVERNESS DRIVE WEST
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LTE - 4C/5C/4T4R
FILE# CPC CM1 18-00105

SHEET TITLE
EXISTING
SITE PLAN

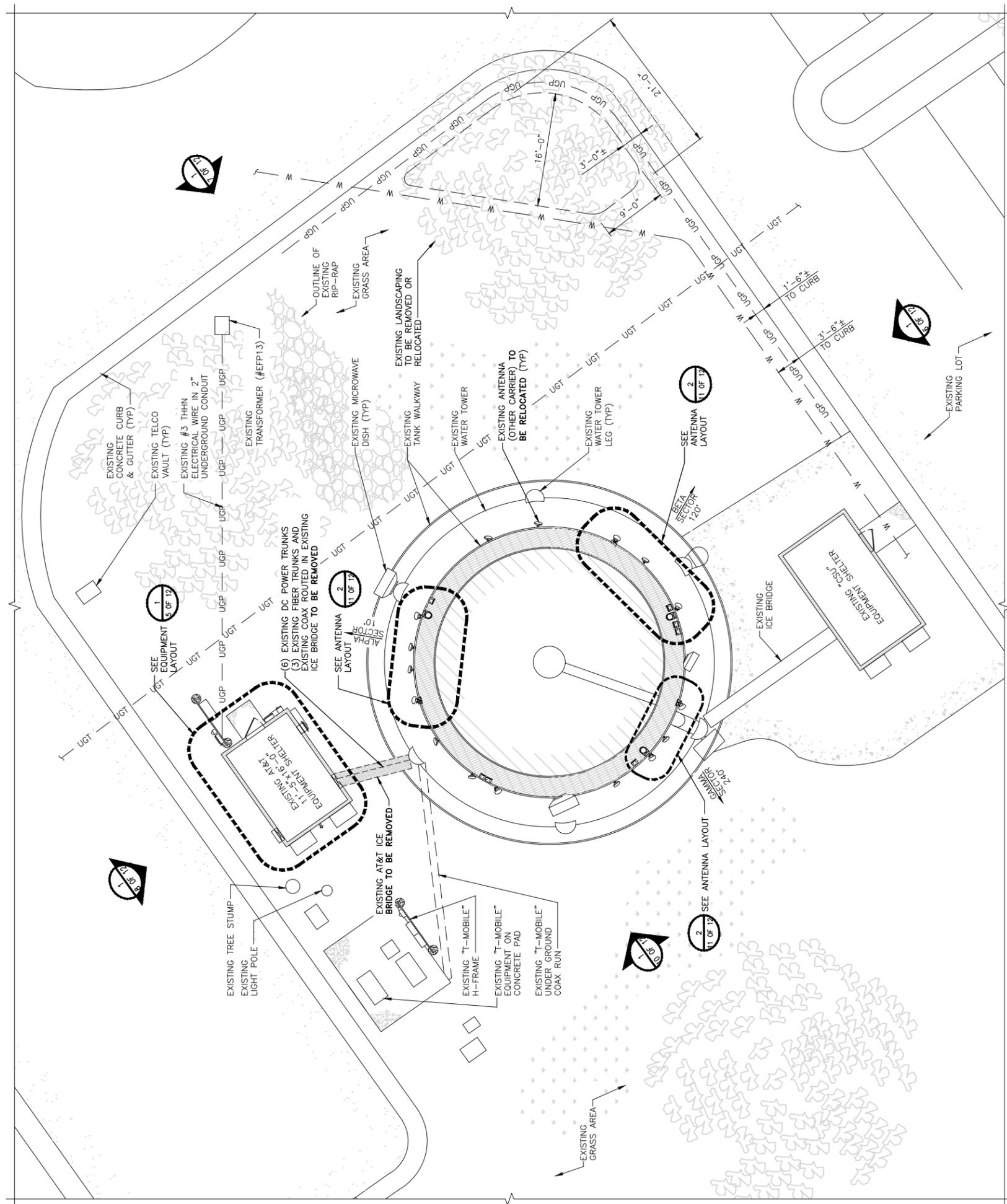
SHEET NUMBER
3 OF 12

NOTE

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

LEGEND

— W — UNDERGROUND WATER
— UGP — UNDERGROUND POWER
— UGT — UNDERGROUND TELCO/FIBER



EXISTING SITE PLAN



FIGURE 1



161 INVERNESS DRIVE WEST
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FILE# CPC CM1 18-00105

SHEET TITLE
PROPOSED
SITE PLAN

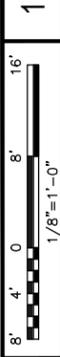
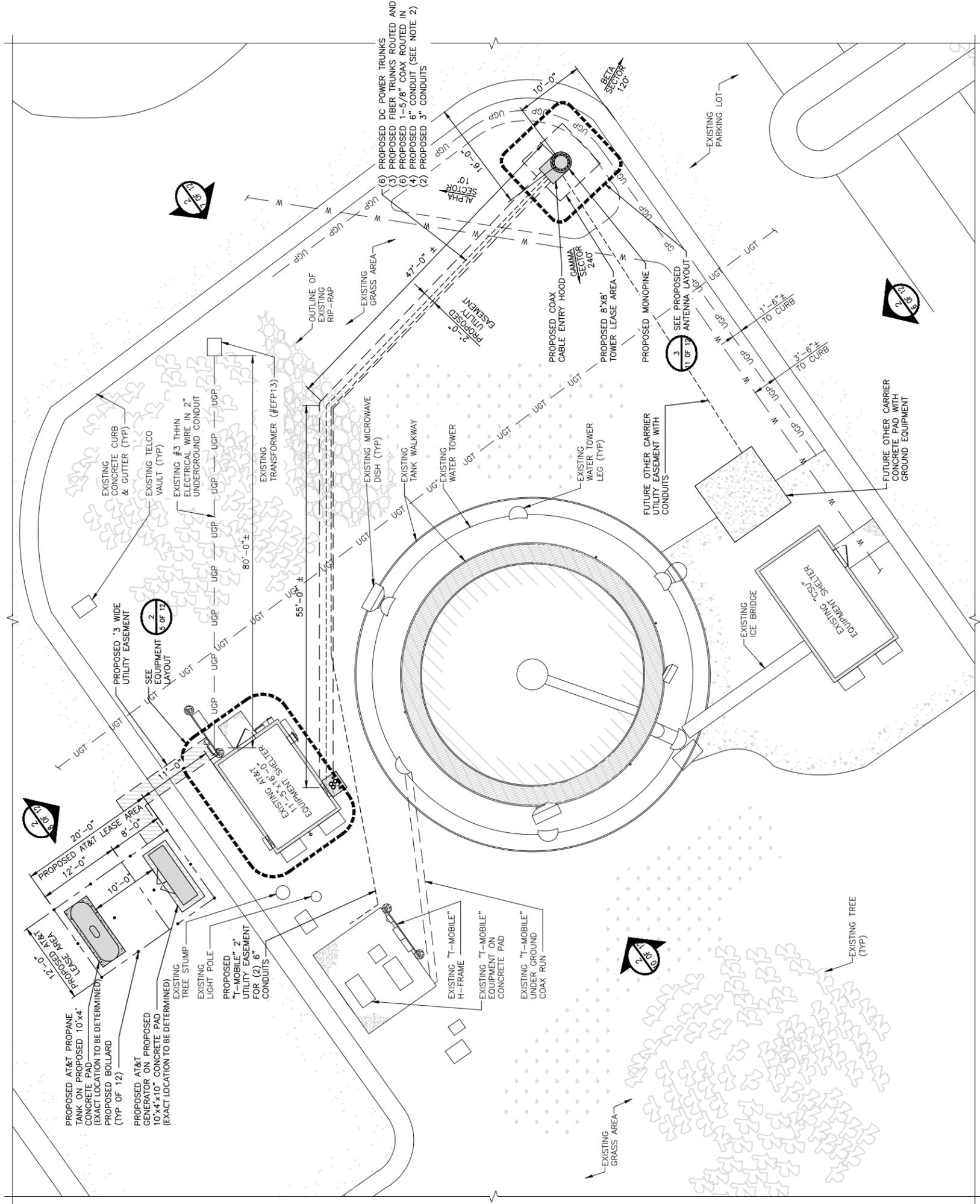
SHEET NUMBER
4 OF 12

NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. CONTRACTOR TO REPLACE RIP-RAP AFTER THE PROPOSED CONDUIT IS INSTALLED. THE DEPTH OF BURY FOR THE PROPOSED CONDUIT SHALL BE MEASURED FROM THE TOP OF THE SOIL BENEATH THE RIP-RAP, NOT THE TOP OF THE RIP-RAP ITSELF.

LEGEND

- W UNDERGROUND WATER
- UGP UNDERGROUND POWER
- UGT UNDERGROUND TELCO/FIBER



PROPOSED SITE PLAN

1



FIGURE 1



161 INVERNESS DRIVE WEST
2ND FLOOR
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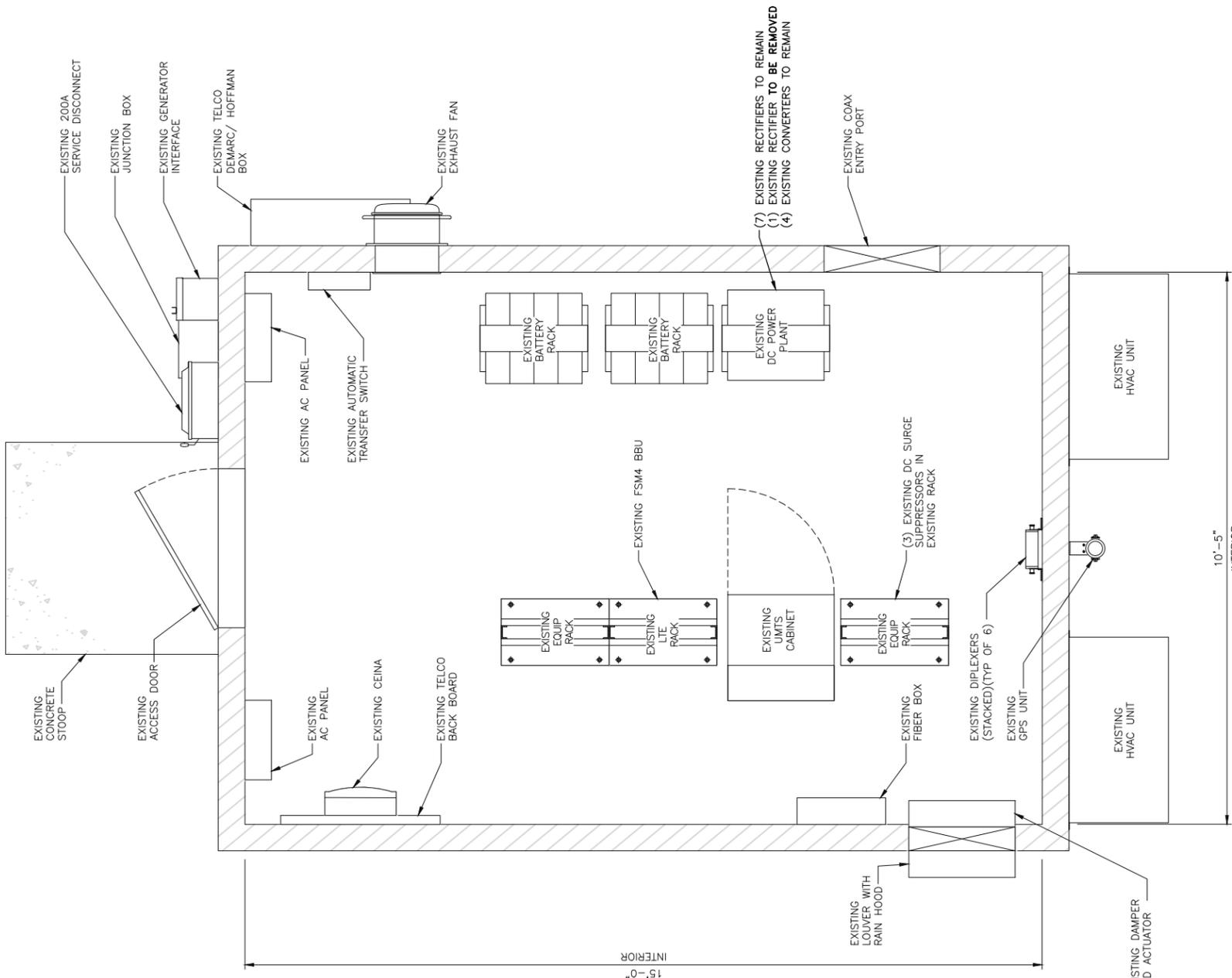
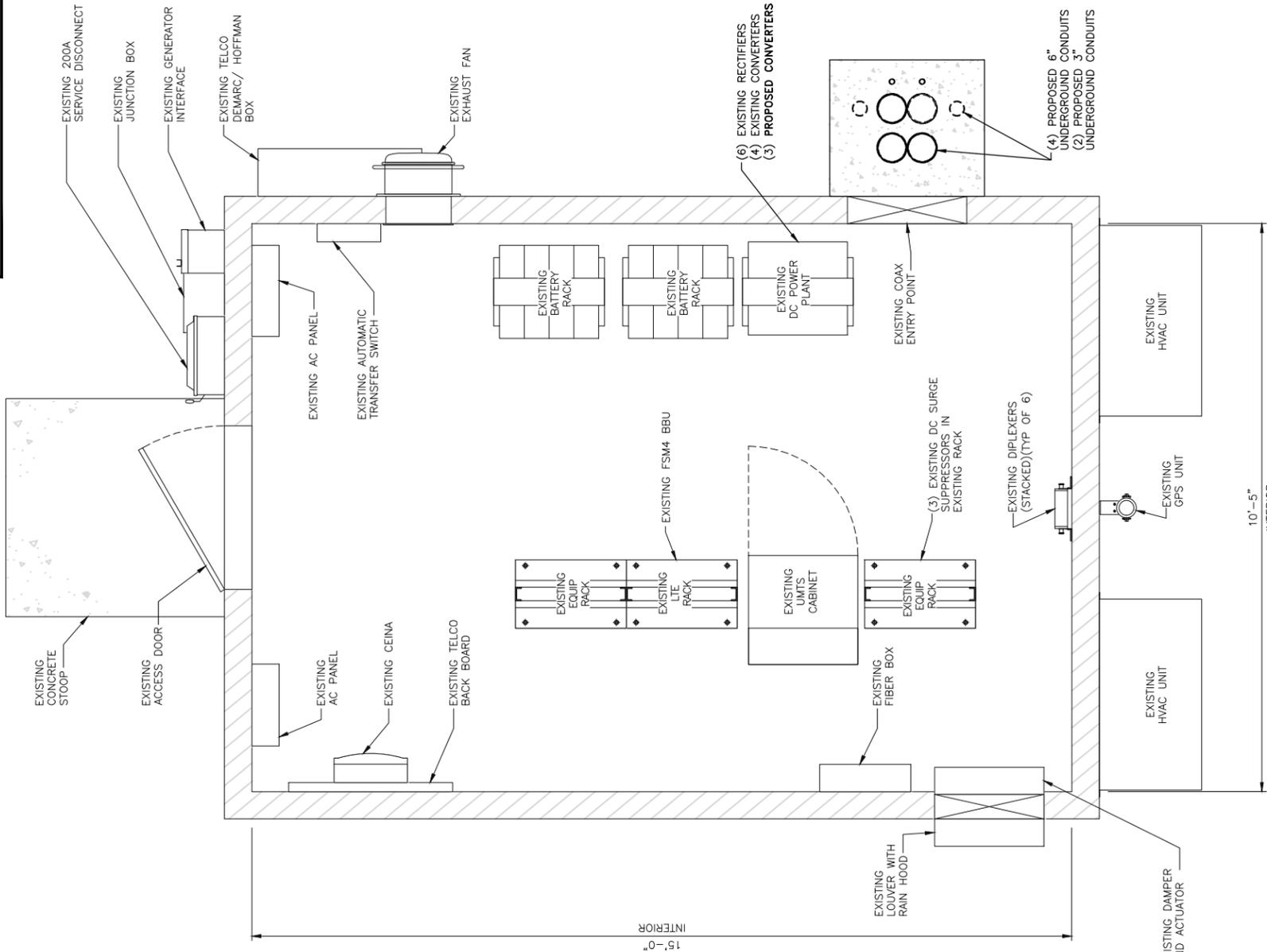
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LTE - 4C/5C/4T4R
FILE# CPC CM1 18-00105

SHEET TITLE
EXISTING AND PROPOSED
EQUIPMENT LAYOUTS

SHEET NUMBER
5 OF 12

NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. CONTRACTOR TO SUPPLY ACID SPILL NEUTRALIZATION PILLOWS IN ACCORDANCE WITH 2012 NFPA 76.



12" 6" 0" 1" 2" 3" 4" 5"
1/2"=1'-0"

AT&T PROPOSED EQUIPMENT LAYOUT

12" 6" 0" 1" 2" 3"
3/4"=1'-0"

AT&T EXISTING EQUIPMENT LAYOUT

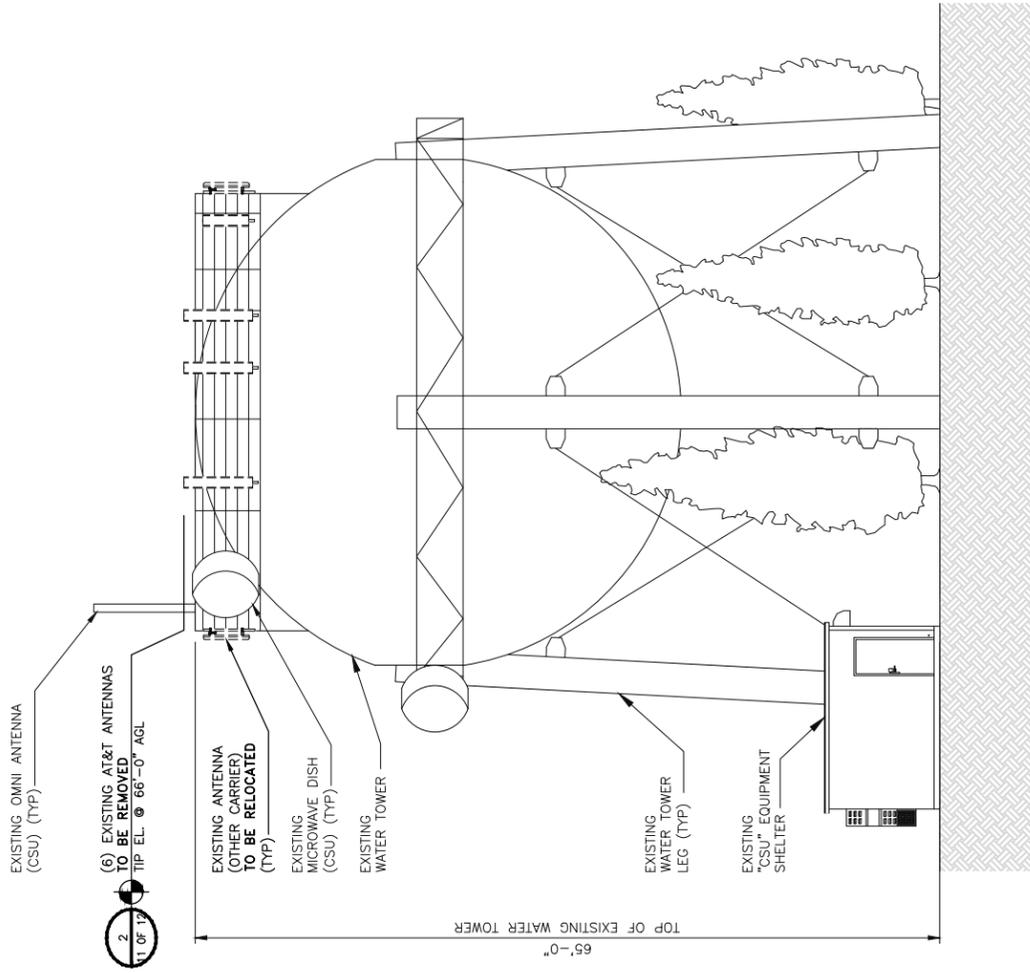
1

2

FIGURE 1

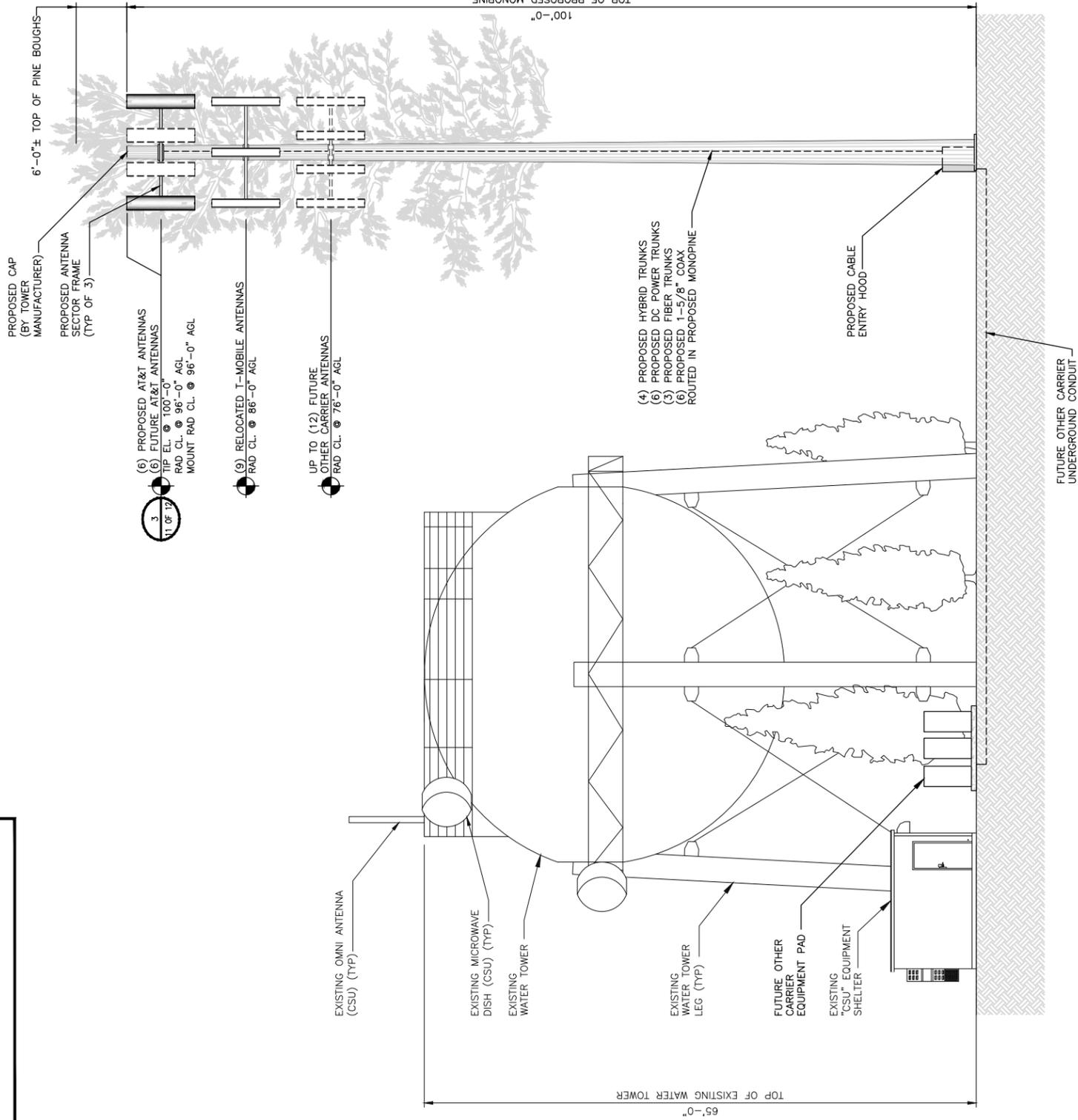
NOTE
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

- NOTES**
1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
 2. PROPOSED TOWER EQUIPMENT TO BE PAINTED TO MATCH TOWER FOLIAGE.
 3. TOWER IS PAINTED AND CLADDED ACCORDING TO MANUFACTURER'S REQUIREMENTS AND SPECIFICATIONS.
 4. AT&T WILL CONSIDER CO-LOCATION PROPOSALS FROM OTHER COMMERCIAL RADIO PROVIDERS WITH AN INTEREST IN THIS FACILITY.



EXISTING_SOUTHEAST_ELEVATION

1



PROPOSED_SOUTHEAST_ELEVATION

2



161 INVERNESS DRIVE WEST
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BLACK & VEATCH

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SHEET TITLE
EXISTING AND PROPOSED
SITE ELEVATIONS

SHEET NUMBER
6 OF 12

FIGURE 1



161 INVERNESS DRIVE WEST
2ND FLOOR
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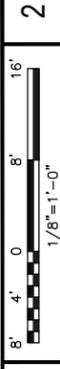
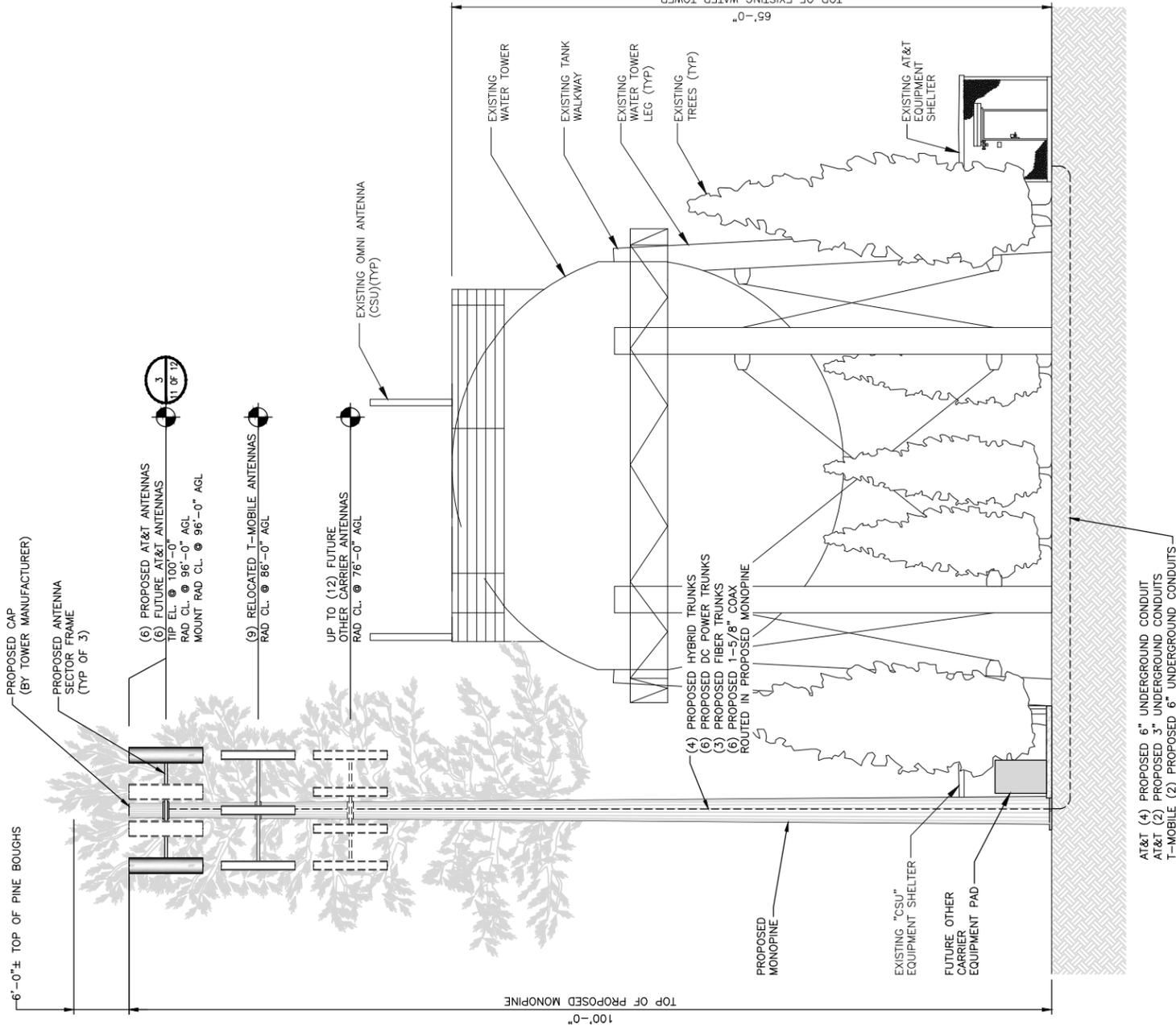
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SHEET TITLE
EXISTING AND PROPOSED
SITE ELEVATIONS

SHEET NUMBER
7 OF 12

NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. PROPOSED TOWER EQUIPMENT TO BE PAINTED TO MATCH TOWER FOLIAGE.
3. TOWER IS PAINTED AND CLADDED ACCORDING TO MANUFACTURER'S REQUIREMENTS AND SPECIFICATIONS.
4. AT&T WILL CONSIDER CO-LOCATION PROPOSALS FROM OTHER COMMERCIAL RADIO PROVIDERS WITH AN INTEREST IN THIS FACILITY.



PROPOSED NORTHEAST ELEVATION



EXISTING NORTHEAST ELEVATION

NOTE

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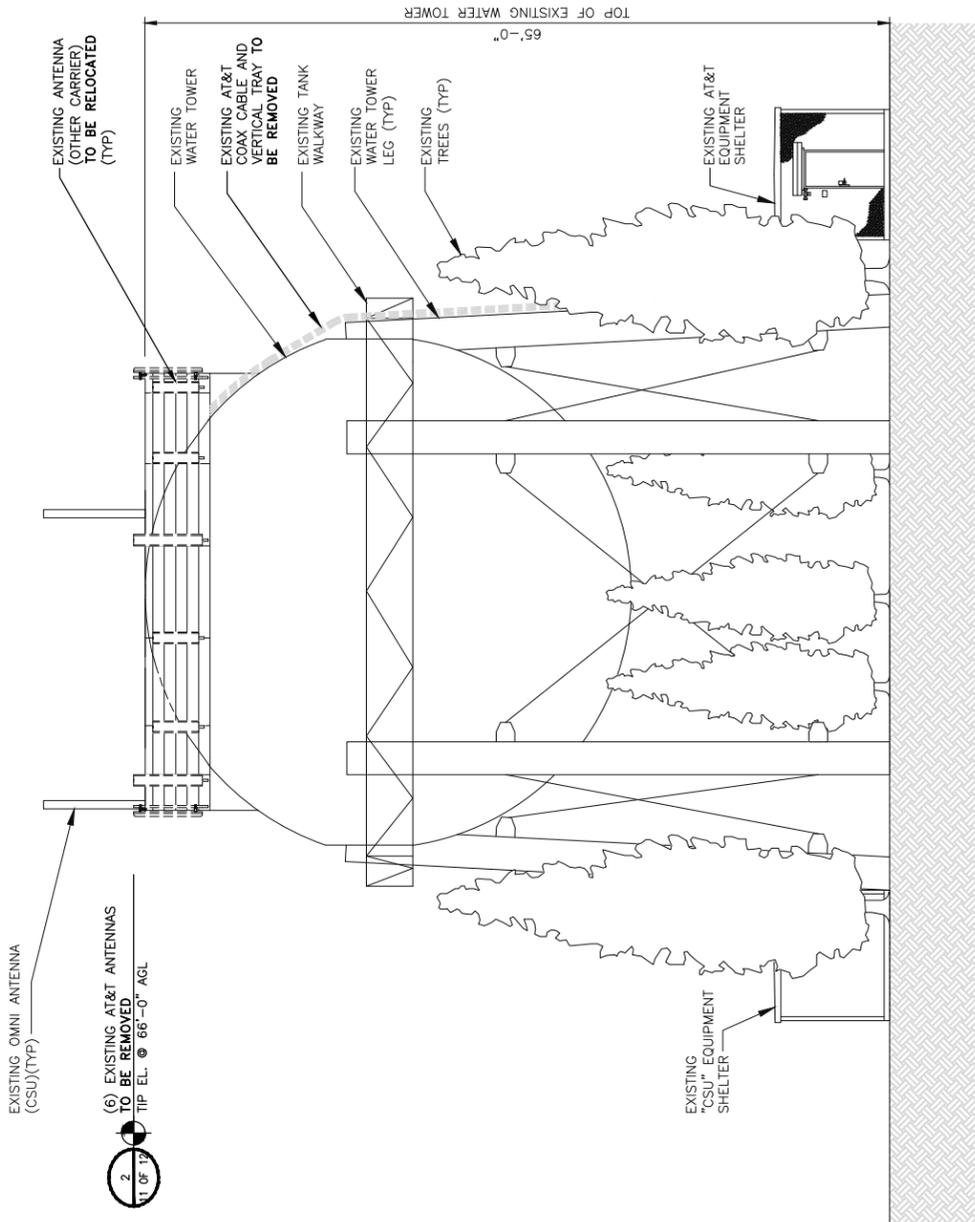


FIGURE 1



161 INVERNESS DRIVE WEST
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BLACK & VEATCH

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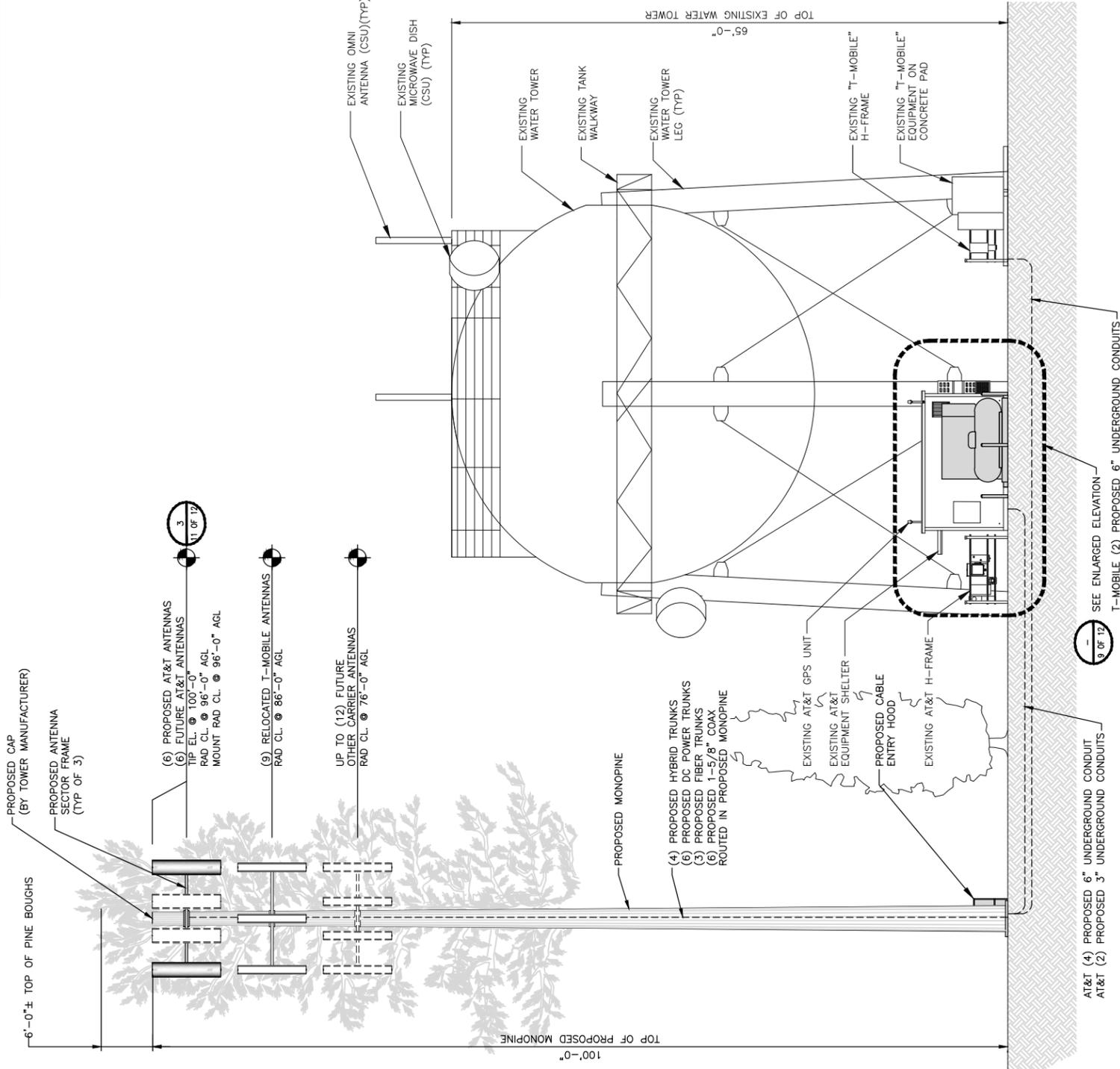
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SHEET TITLE
EXISTING AND PROPOSED
SITE ELEVATIONS

SHEET NUMBER
8 OF 12

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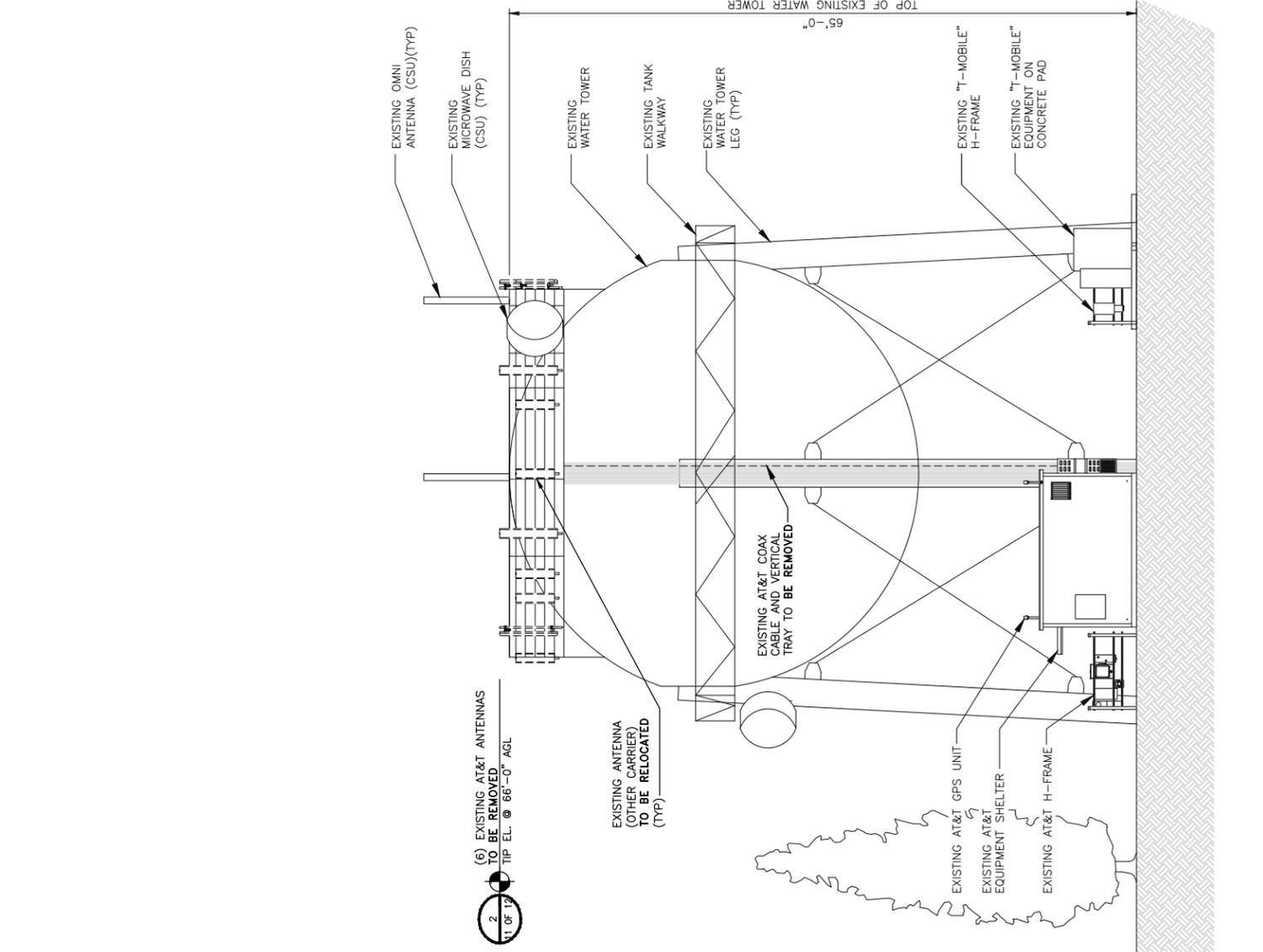
PROPOSED NORTHWEST ELEVATION

8' 4' 0 8' 16'
1/8"=1'-0"

2

NOTE

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.



EXISTING NORTHWEST ELEVATION

8' 4' 0 8' 16'
1/8"=1'-0"

1

FIGURE 1



161 INVERNESS DRIVE WEST
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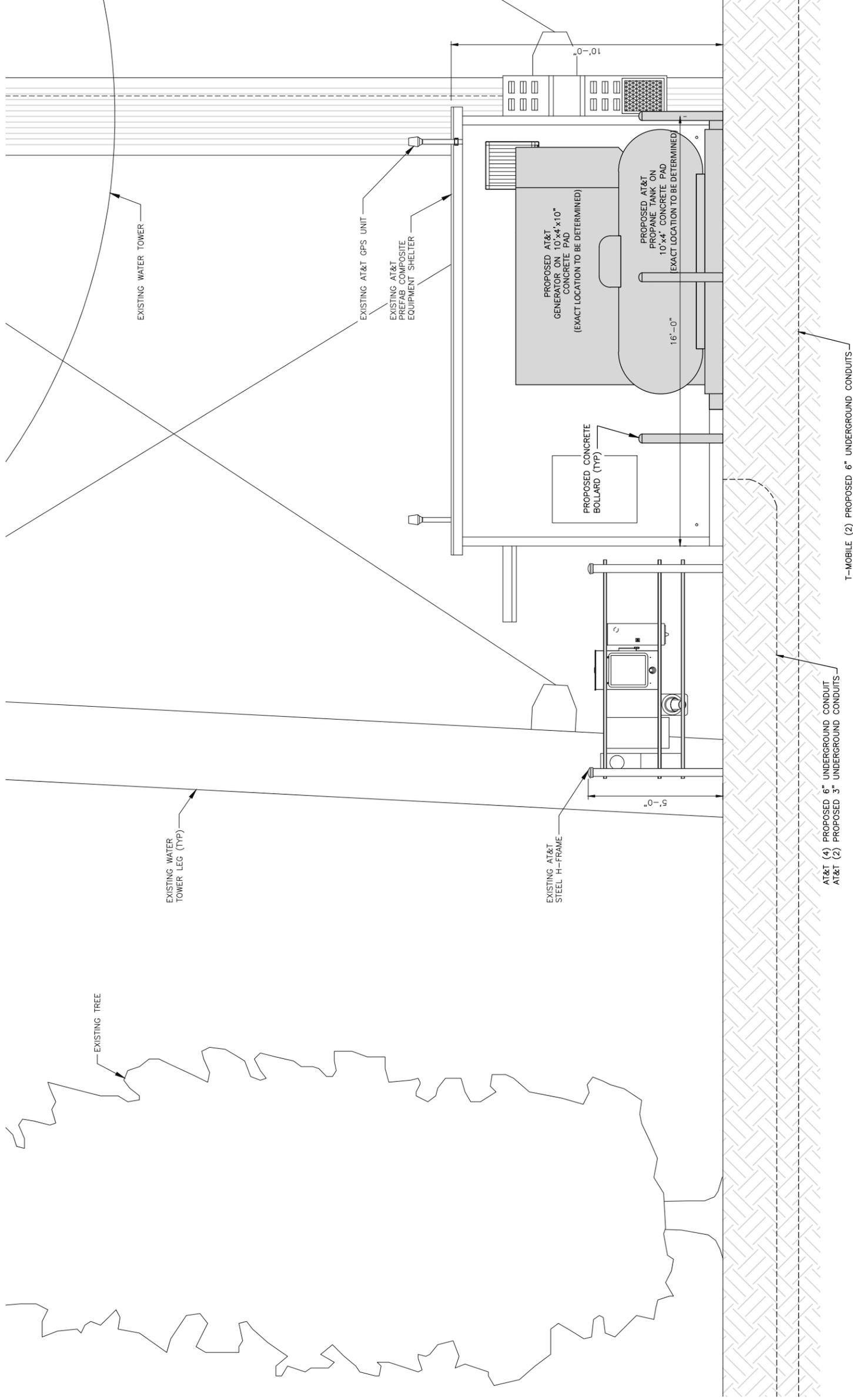
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SHEET TITLE
PROPOSED ENLARGED NORTHWEST ELEVATION

SHEET NUMBER
9 OF 12

NOTE

NO CHANGES PROPOSED TO EXISTING EQUIPMENT SHELTER EXTERIOR



PROPOSED ENLARGED NORTHWEST ELEVATION

FIGURE 1

NOTE
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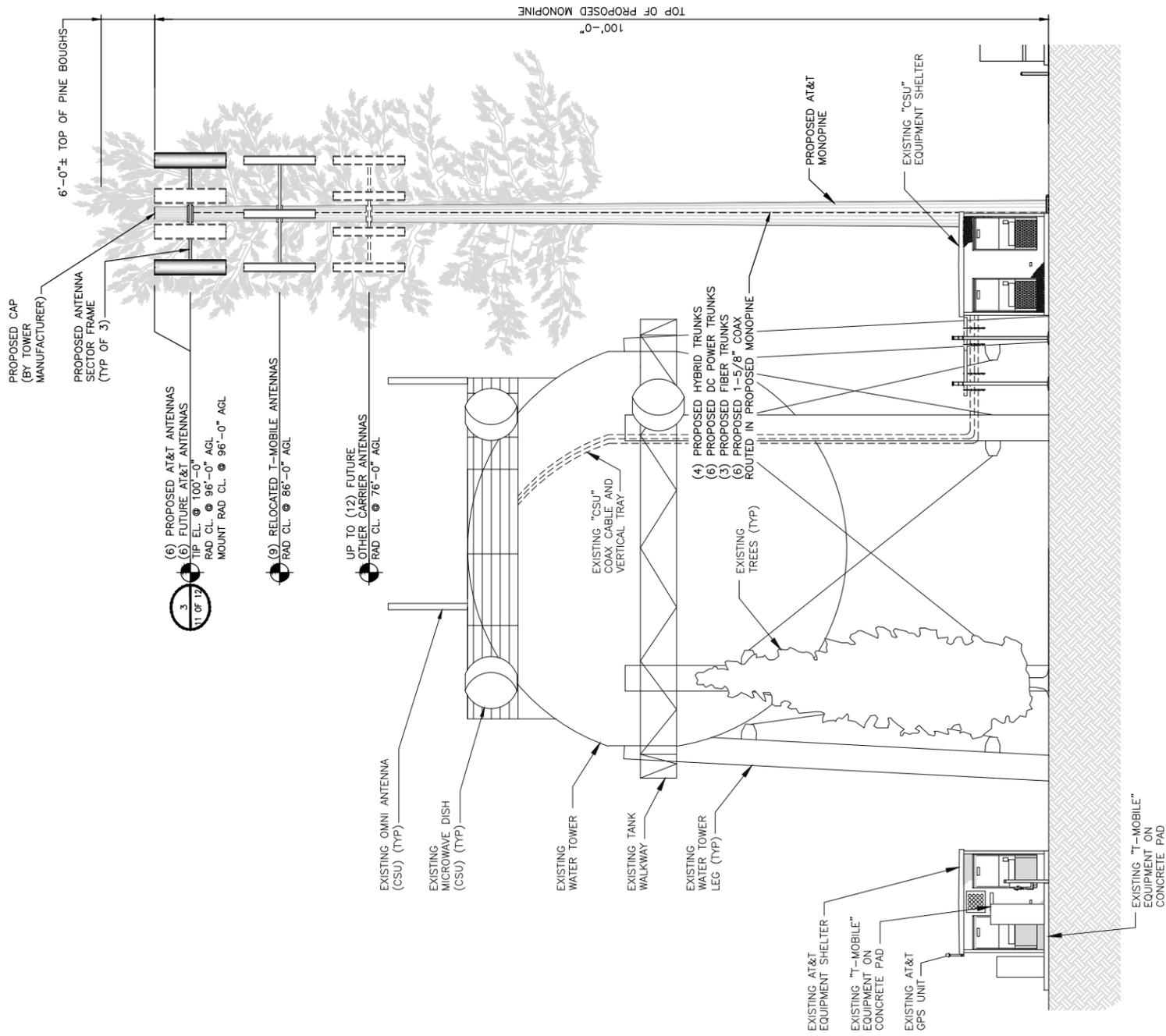
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SHEET TITLE
EXISTING AND PROPOSED SITE ELEVATIONS

SHEET NUMBER
10 OF 12



Scale: 1/8" = 1'-0"
0 8' 16'

PROPOSED SOUTHWEST ELEVATION

Scale: 1/8" = 1'-0"
0 8' 16'

EXISTING SOUTHWEST ELEVATION

1

FIGURE 1



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SHEET TITLE

AT&T ANTENNA LAYOUTS

SHEET NUMBER

11 OF 12

NOTES

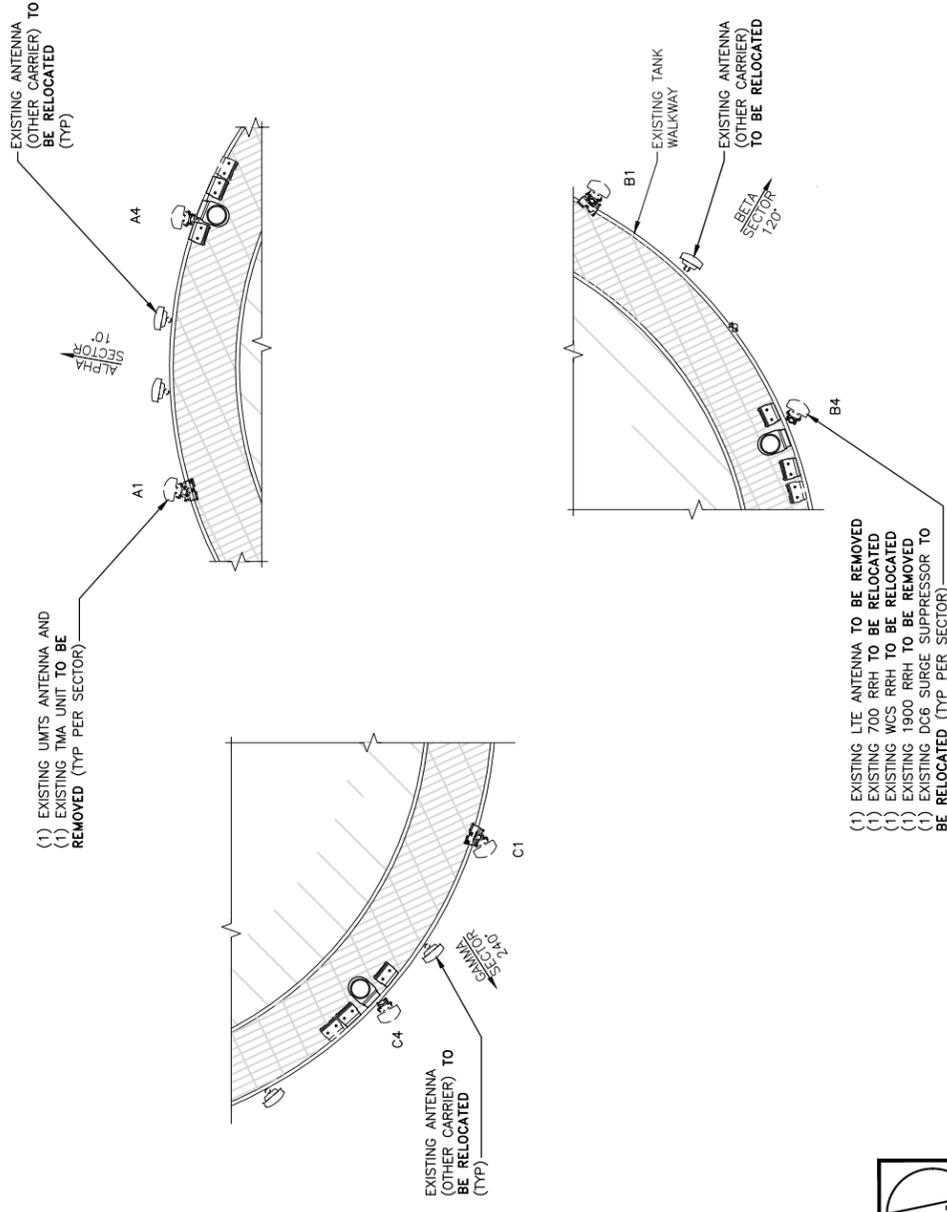
- CONTRACTOR TO REFER TO FINAL CONSTRUCTION RFDS FOR ALL RF DETAILS.
- ANTENNA OR RRH MODELS MAY CHANGE DUE TO EQUIPMENT AVAILABILITY. EQUIPMENT CHANGES MUST BE APPROVED BY AT&T. AND REMAIN IN COMPLIANCE WITH THE PROPOSED DESIGN AND STRUCTURAL ANALYSES.
- ALL EXISTING/ PROPOSED PANEL ANTENNAS SHALL BE CENTERED WITH THE PROPOSED MOUNT CENTERLINE; UP TO A +/- 6" VERTICAL TOLERANCE.

SECTOR	ANTENNA TYPE	TECHNOLOGY	TRANSMISSION CABLE		DC JUMPERS NEEDED	FIBER JUMPERS NEEDED
			QTY.	TYPE		
A1	PROPOSED ANTENNA	LIMITS 850/ LTE 700/WCS	2	1-5/8" COAX *SEE NOTE BELOW	YES	YES
A2	-	-	-	-	-	-
A3	-	-	-	-	-	-
A4	PROPOSED ANTENNA	LTE 700/1900/AWS	-	*SEE NOTE BELOW	YES	YES
B1	PROPOSED ANTENNA	LIMITS 850/ LTE 700/WCS	2	1-5/8" COAX *SEE NOTE BELOW	YES	YES
B2	-	-	-	-	-	-
B3	-	-	-	-	-	-
B4	PROPOSED ANTENNA	LTE 700/1900/AWS	-	*SEE NOTE BELOW	YES	YES
C1	PROPOSED ANTENNA	LIMITS 850/ LTE 700/WCS	2	1-5/8" COAX *SEE NOTE BELOW	YES	YES
C2	-	-	-	-	-	-
C3	-	-	-	-	-	-
C4	PROPOSED ANTENNA	LTE 700/1900/AWS	-	*SEE NOTE BELOW	YES	YES

*(6) PROPOSED DC POWER TRUNKS AND (3) PROPOSED FIBER TRUNKS SUPPLIES ALL LTE RADIOS

AT&T PROPOSED ANTENNA AND TRANSMISSION CABLE REQUIREMENT

NO SCALE 1



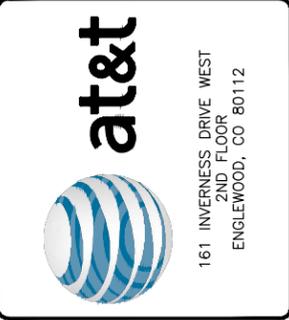
NO SCALE 2

AT&T EXISTING ANTENNA LAYOUT

AT&T PROPOSED ANTENNA LAYOUT

NO SCALE 3

FIGURE 1



161 INVERNESS DRIVE WEST
2ND FLOOR
ENGLEWOOD, CO 80112



4600 SOUTH SYRACUSE STREET
SUITE 800
DENVER, COLORADO 80237

PROJECT/PHASE NO:	129051/3097
DRAWN BY:	BDU
CHECKED BY:	NCP
RFDS:	2.00 (11/17/17)

REV	DATE	DESCRIPTION
E	10/24/18	JURISDICTION COMMENTS
D	06/29/18	CLIENT SCOPE CHANGE
C	06/25/18	CLIENT SCOPE CHANGE
B	06/20/18	CLIENT SCOPE CHANGE
A	05/16/18	ISSUED FOR REVIEW

NOT TO BE USED FOR CONSTRUCTION

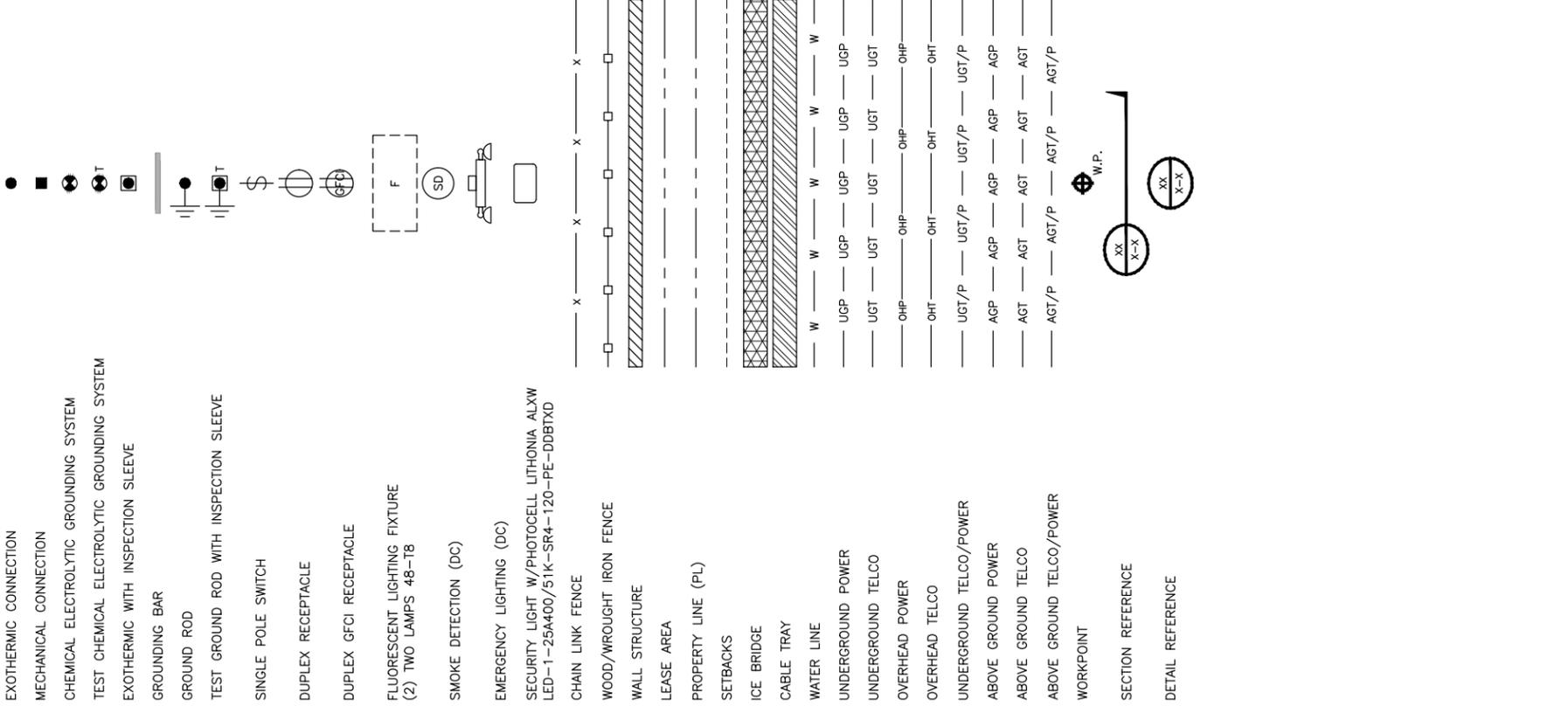
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

MESA & FILLMORE
COL02018
2715 MESA ROAD
COLORADO SPRINGS, CO 80904
LTE - 4C/5C/4T4R
FILE# CPC CM1 18-00105

SHEET TITLE
LEGEND AND ABBREVIATIONS

SHEET NUMBER
12 OF 12

AB	ANCHOR BOLT	IN	INCH
ABV	ABOVE	INT	INTERIOR
AC	ALTERNATING CURRENT	LB(S)	POUND(S)
ADDL	ADDITIONAL	LF	LINEAR FEET
AF	ABOVE FINISHED FLOOR	LTE	LONG TERM EVOLUTION
AFG	ABOVE FINISHED GRADE	MAS	MASONRY
AGL	ABOVE GROUND LEVEL	MAX	MAXIMUM
AIC	AMPERAGE INTERRUPTION CAPACITY	MB	MACHINE BOLT
ALUM	ALUMINUM	MECH	MECHANICAL
ALT	ALTERNATE	MFR	MANUFACTURER
ANT	ANTENNA	MGB	MASTER GROUND BAR
APPROX	APPROXIMATE	MIN	MINIMUM
ARCH	ARCHITECTURAL	MISC	MISCELLANEOUS
ATS	AUTOMATIC TRANSFER SWITCH	MTL	METAL
AWG	AMERICAN WIRE GAUGE	MTS	MANUAL TRANSFER SWITCH
BATT	BATTERY	MW	MICROWAVE
BLDG	BUILDING	NEC	NATIONAL ELECTRIC CODE
BLK	BLOCK	NM	NEWTON METERS
BLKG	BLOCKING	NO.	NUMBER
BM	BEAM	#	NOT TO SCALE
BTC	BARE TINNED COPPER CONDUCTOR	NTS	NOT TO SCALE
BOF	BOTTOM OF FOOTING	OC	ON-CENTER
CAB	CABINET	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
CANT	CANTILEVERED	OPNG	OPENING
CHG	CHARGING	P/C	PRECAST CONCRETE
CLG	CEILING	PCS	PERSONAL COMMUNICATION SERVICES
CLR	CLEAR	PCU	PRIMARY CONTROL UNIT
COL	COLUMN	PRC	PRIMARY RADIO CABINET
COMM	COMMON	PP	POLARIZING PRESERVING
CONC	CONCRETE	PSF	POUNDS PER SQUARE FOOT
CONSTR	CONSTRUCTION	PSI	POUNDS PER SQUARE INCH
DBL	DOUBLE	PT	PRESSURE TREATED
DC	DIRECT CURRENT	PWR	POWER CABINET
DEPT	DEPARTMENT	QTY	QUANTITY
DF	DOUGLAS FIR	RAD	RADIUS
DIA	DIAMETER	RECT	RECTIFIER
DIAG	DIAGONAL	REF	REFERENCE
DIM	DIMENSION	REINF	REINFORCEMENT
DWG	DRAWING	REQ'D	REQUIRED
DWL	DOWEL	RET	REMOTE ELECTRIC TILT
EA	EACH	RF	RADIO FREQUENCY
EC	ELECTRICAL CONDUCTOR	RMC	RIGID METALLIC CONDUIT
EL	ELEVATION	RRH	REMOTE RADIO HEAD
ELEC	ELECTRICAL	RRU	REMOTE RADIO UNIT
EMT	ELECTRICAL METALLIC TUBING	RWY	RACEWAY
ENG	ENGINEER	SCH	SCHEDULE
EQ	EQUAL	SHT	SHEET
EXP	EXPANSION	SIAD	SMART INTEGRATED ACCESS DEVICE
EXT	EXTERIOR	SIM	SIMILAR
EW	EACH WAY	SPEC	SPECIFICATION
FAB	FABRICATION	SQ	SQUARE
FF	FINISH FLOOR	SS	STAINLESS STEEL
FG	FINISH GRADE	STD	STANDARD
FIF	FACILITY INTERFACE FRAME	STL	STEEL
FIN	FINISH(ED)	TEMP	TEMPORARY
FLR	FLOOR	THK	THICKNESS
FDN	FOUNDATION	TMA	TOWER MOUNTED AMPLIFIER
FOC	FACE OF CONCRETE	TOA	TOP OF ANTENNA
FOM	FACE OF MASONRY	TOC	TOP OF CURB
FOS	FACE OF STUD	TOF	TOP OF FOUNDATION
FOW	FACE OF WALL	TOP	TOP OF PLATE (PARAPET)
FS	FINISH SURFACE	TOS	TOP OF STEEL
FT	FOOT	TOW	TOP OF WALL
FTG	FOOTING	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
GA	GAUGE	TYP	TYPICAL
GEN	GENERATOR	UG	UNDERGROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UL	UNDERWRITERS LABORATORY
GLB	GLUE LAMINATED BEAM	UNO	UNLESS NOTED OTHERWISE
GLV	GALVANIZED	UMTS	UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
GPS	GLOBAL POSITIONING SYSTEM	UPS	UNINTERRUPTIBLE POWER SYSTEM (DC POWER PLANT)
GND	GROUND	VIF	VERIFIED IN FIELD
GSM	GLOBAL SYSTEM FOR MOBILE	W	WIDE
HDG	HOT DIPPED GALVANIZED	W/	WITH
HDR	HEADER	WD	WOOD
HGR	HANGER	WP	WEATHERPROOF
HVAC	HEAT/VENTILATION/AIR CONDITIONING	WT	WEIGHT
HT	HEIGHT		
IGR	INTERIOR GROUND RING		



ABBREVIATIONS

LEGEND

FIGURE 1