

OVERALL SITE PLAN

PLANS PREPARED FOR:



PLANS PREPARED BY:

ENGINEERING LICENSE:
 STATE OF COLORADO
 STATE CERTIFICATE OF AUTHORIZATION #20041302439
 ENGINEER: MLO MICHAEL L. OWENS 43062 STRUCTURAL/CIVIL SC
 TMS TERRANCE M. SUPER 36490 ELECTRICAL E
 SDK SHELTON D. KEISLING 49643 ELECTRICAL E

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SUBMITTALS				
DESCRIPTION	DATE	BY	REV	
ISSUED FOR LE REVIEW	12/05/17	HEE	A	
REISSUED FOR LE REVIEW	12/06/17	HEE	B	

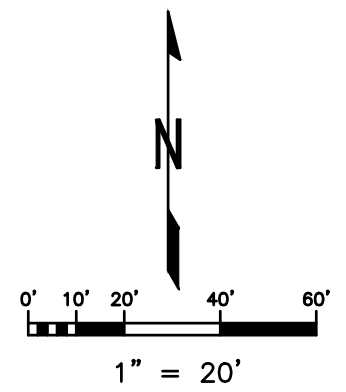
SITE NAME:
RON COX FIELD

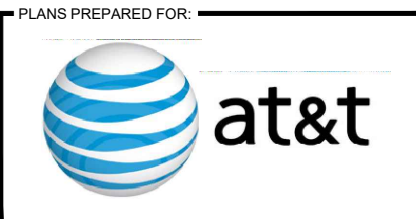
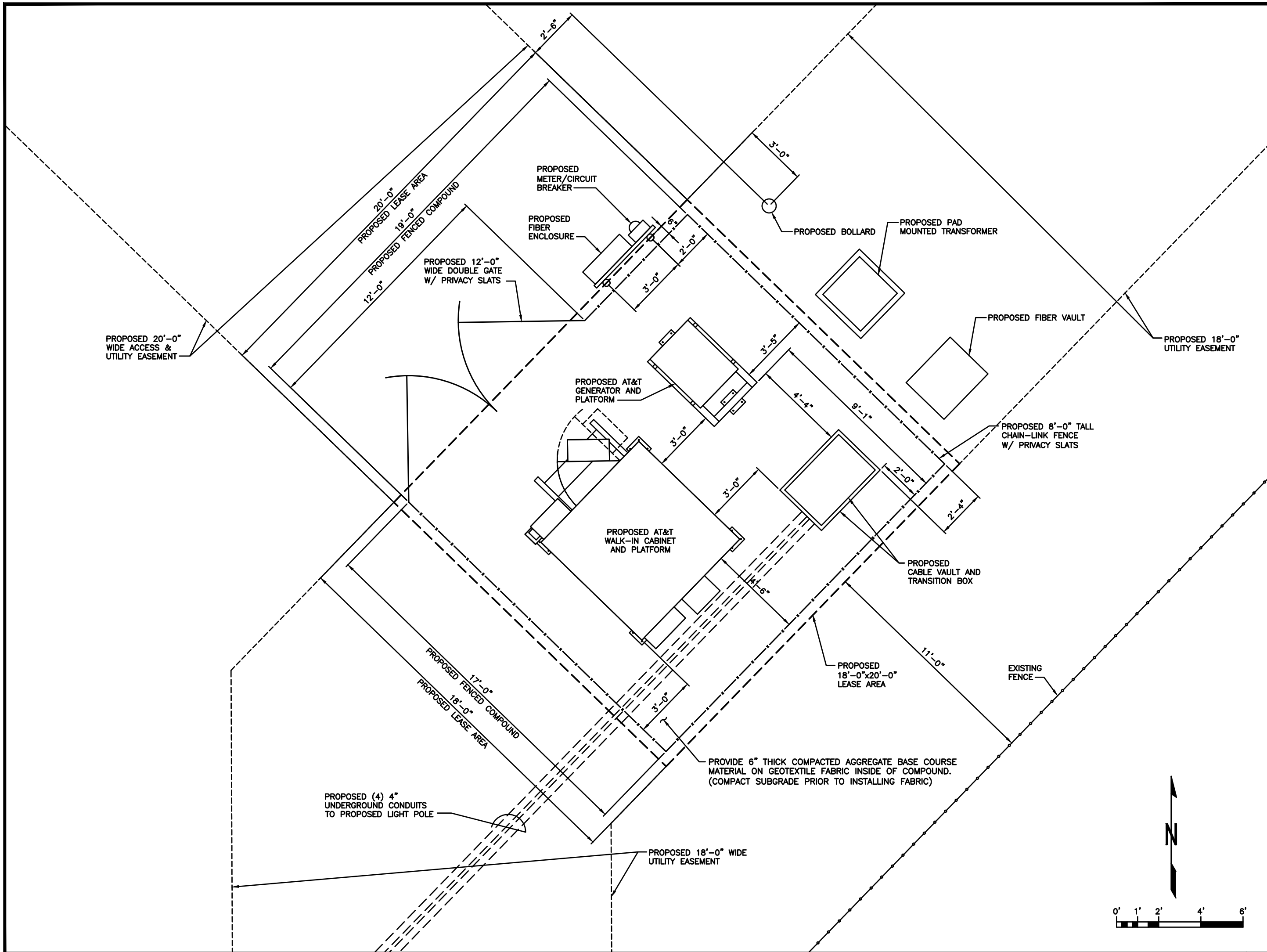
SITE NUMBER:
COU5344

SITE ADDRESS:
S. 8TH AVE & E. SOUTHERN ST. BRIGHTON, CO 80601

SHEET DESCRIPTION:
OVERALL SITE PLAN

SSC # _____ SHEET NUMBER:
A-1.0





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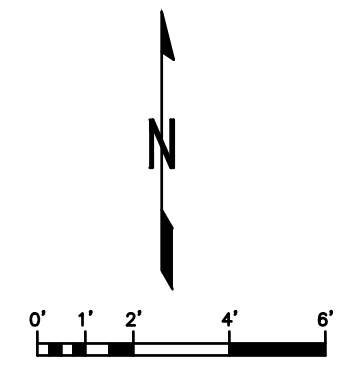
SHEET DESCRIPTION:

**ENLARGED SITE PLAN
 (COMPOUND)**

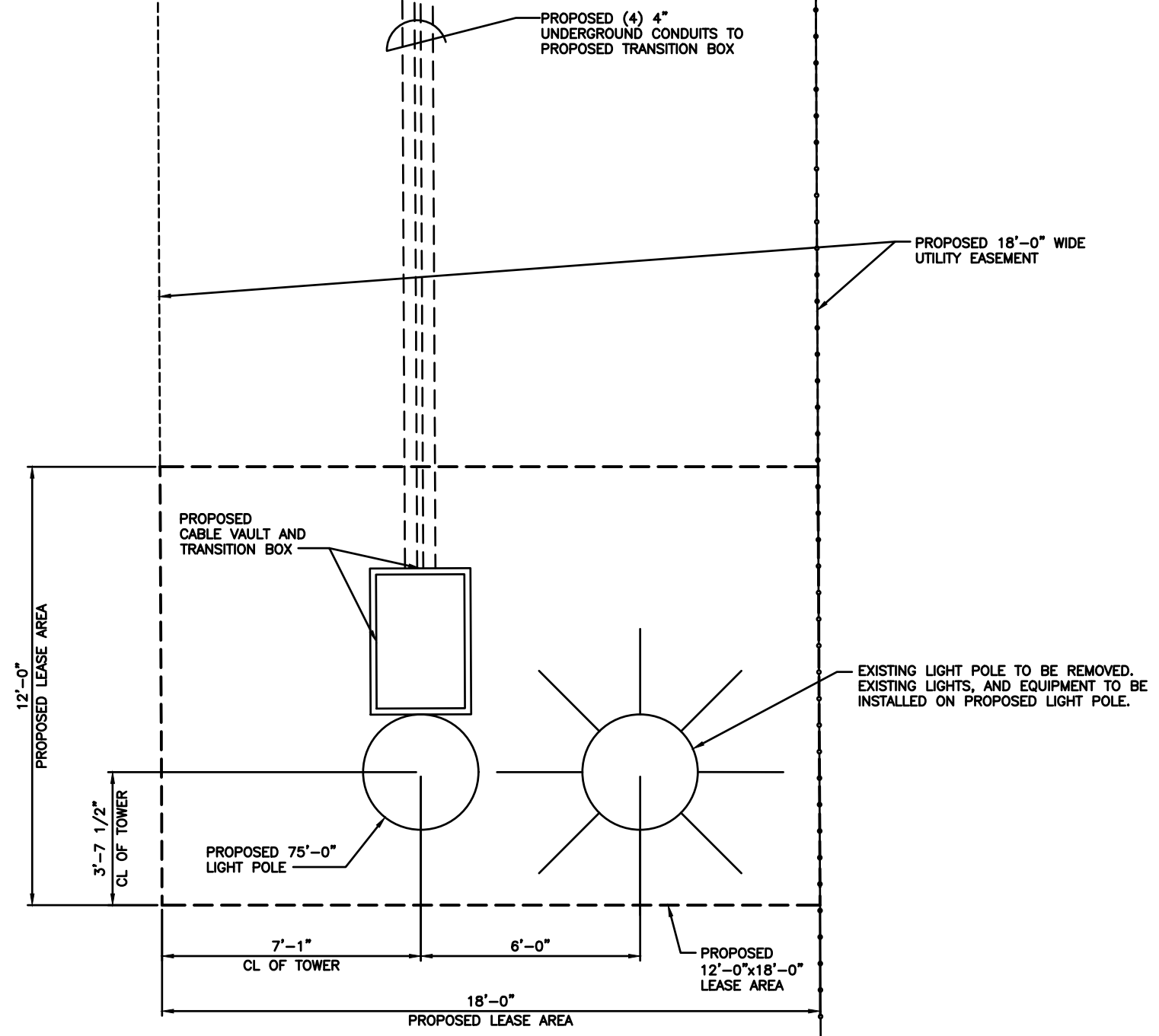
SSC #:

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A-1.1



ENLARGED SITE PLAN



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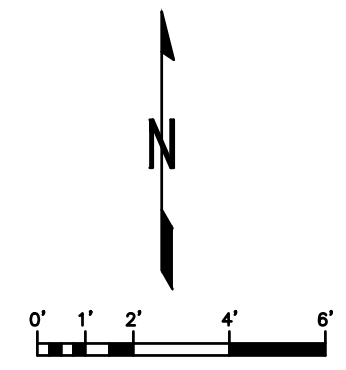
**S. 8TH AVE & E.
SOUTHERN ST.
BRIGHTON, CO 80601**

SHEET DESCRIPTION:

**ENLARGED SITE PLAN
(TOWER)**

SSC # _____ SHEET NUMBER:

A-1.2



1. CONTRACTOR TO REFER TO FINAL RFDS FOR ALL RF DETAILS
2. RET CABLE TO BE RUN TO 1ST CARRIER LTE RRH, AND DAISY CHAINED TO ALL ACTIVE SECTOR ANTENNAS
3. REFER TO GENERAL NOTES FOR ANTENNA MOUNTING INFORMATION
4. DO NOT EXCEED 15' WIRE LENGTH FROM SURGE SUPPRESSOR TO RRH
5. MAINTAIN MINIMUM SEPARATION BETWEEN ALL EQUIPMENT

SECTOR	TYPE	TECHNOLOGY	SQUID NO.
A1	NEW	LTE	S1
A2	NEW	LTE	S1
A3	NEW	LTE	S1
A4	NEW	LTE	S1
B1	NEW	LTE	S2
B2	NEW	LTE	S2
B3	NEW	LTE	S2
B4	NEW	LTE	S2
C1	NEW	LTE	S3
C2	NEW	LTE	S3
C3	NEW	LTE	S3
C4	NEW	LTE	S3

NOTES

1. ALL MAIN CABLES WILL BE GROUNDED W/ COAXIAL CABLE GROUNDING KITS AT:
 - A. THE ANTENNA LEVEL
 - B. MID LEVEL IF TOWER IS OVER 200'
 - C. BASE OF TOWER PRIOR TO TURNING HORIZONTAL.
 - D. OUTSIDE THE EQUIPMENT SHELTER AT ENTRY PORT.
 - E. INSIDE THE EQUIPMENT SHELTER AT THE ENTRY PORT.
2. ALL PROPOSED GROUNDING BAR DOWNLEADS ARE TO BE TERMINATED TO THE EXISTING ADJACENT GROUNDING BAR DOWNLEADS A MINIMUM DISTANCE OF 4'-0" BELOW GROUNDING BAR. TERMINATIONS MAY BE EXOTHERMIC OR COMPRESSION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ANTENNA AND THE COAX CONFIGURATION, MAKE AND MODELS, PRIOR TO INSTALLATION.
4. ANTENNA CONTRACTOR SHALL FURNISH AND INSTALL A 12'-6" ANTENNA SECTOR MOUNT, INCLUDING ALL HARDWARE.
5. ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER TOWER MANUFACTURER'S STANDARD DETAILS.
6. THE EXISTING TOWER IS CURRENTLY BEING ANALYZED BY OTHERS TO DETERMINE ITS STRUCTURAL CAPACITY TO CARRY THE PROPOSED NEW EQUIPMENT. THESE DRAWINGS HAVE BEEN CREATED BASED ON THE ASSUMPTION THE STRUCTURAL ANALYSIS WILL SHOW THAT THE TOWER HAS SUFFICIENT CAPACITY TO SUPPORT THE PROPOSED NEW LOADS. INSTALLATION OF THE COAX AND ANTENNAS SHALL NOT COMMENCE UNTIL AN APPROVED STRUCTURAL ANALYSIS HAS BEEN RECEIVED BY THE OWNER OR AT&T.
7. CONTRACTOR SHALL REFERENCE THE TOWER STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION/ROUTING.

COAXIAL ANTENNA CABLE NOTES

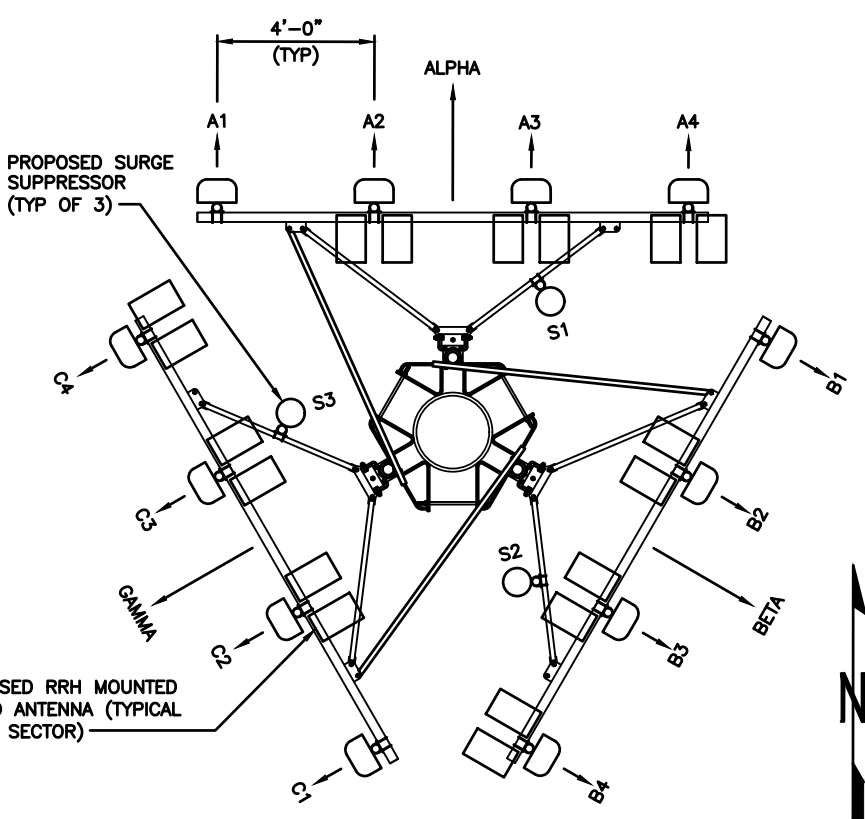
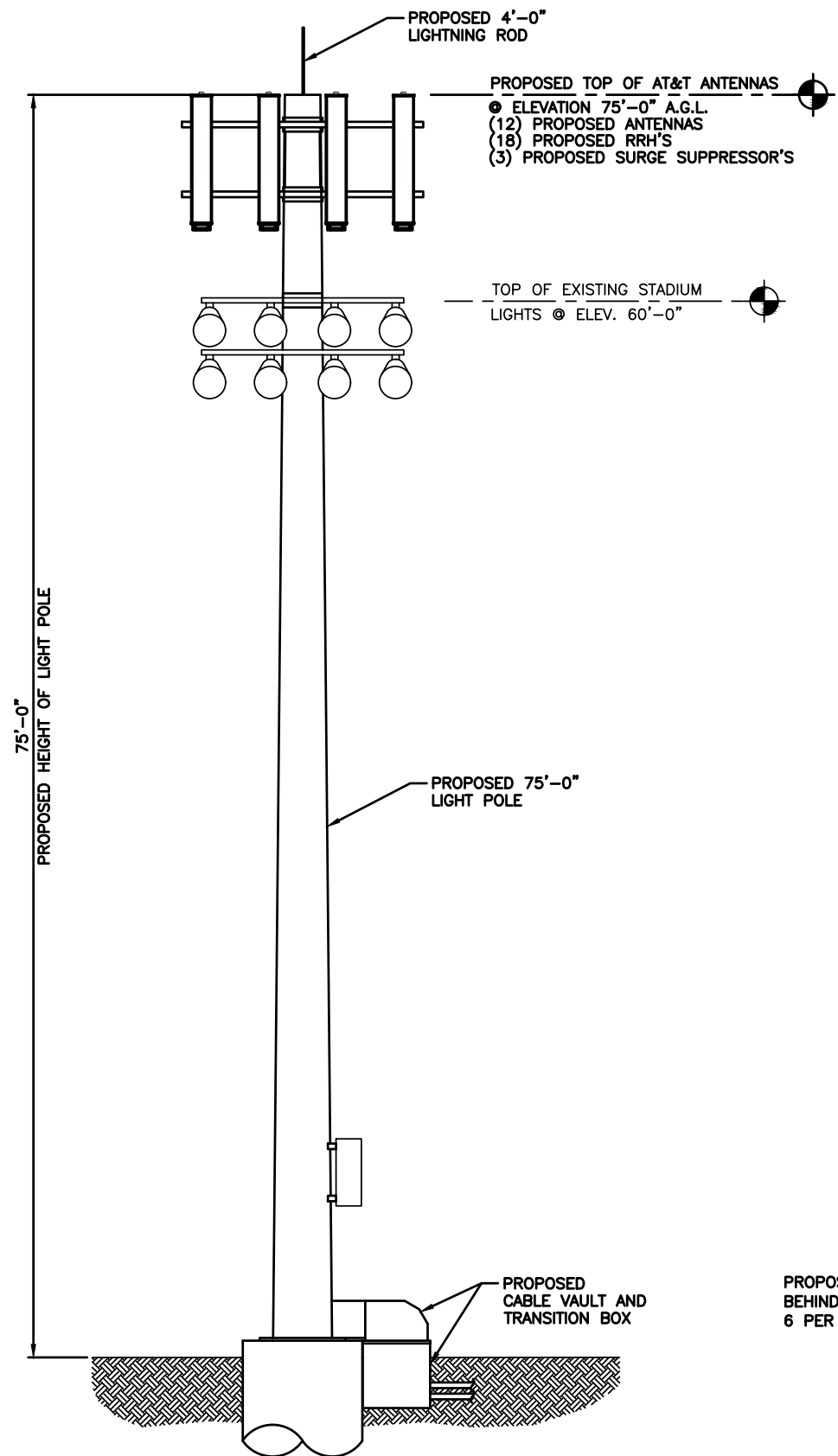
1. TYPES AND SIZES OF THE ANTENNA CABLE ARE BASED ON ESTIMATED LENGTHS. PRIOR TO ORDERING CABLE, SUBCONTRACTOR SHALL VERIFY ACTUAL LENGTH BASED ON CONSTRUCTION LAYOUT AND NOTIFY THE PROJECT MANAGER IF ACTUAL LENGTHS EXCEED ESTIMATED LENGTHS.
2. CONTRACTOR SHALL VERIFY THE DOWN-TILT OF EACH ANTENNA WITH A DIGITAL LEVEL
3. CONTRACTOR TO CONFIRM COAX COLOR CODING PRIOR TO CONSTRUCTION. REFER TO "ANTENNA SYSTEM LABELING STANDARD" ND-00027 REFER TO THE LATEST VERSION.
4. ALL JUMPERS TO THE ANTENNAS FROM THE MAIN TRANSMISSION LINE WILL BE 1/2" DIA. LDF AND SHALL NOT EXCEED 6'-0".
5. ALL COAXIAL CABLE WILL BE SECURED TO THE DESIGNED SUPPORT STRUCTURE, IN AN APPROVED MANNER, AT DISTANCES NOT TO EXCEED 4'-0" OC.
6. CONTRACTOR MUST FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS REGARDING BOTH THE INSTALLATION AND GROUNDING OF ALL COAXIAL CABLES, CONNECTORS, ANTENNAS, AND ALL OTHER EQUIPMENT.
7. WEATHERPROOF ALL ANTENNA CONNECTORS WITH SELF AMALGAMATING TAPE. WEATHERPROOFING SHALL BE COMPLETED IN STRICT ACCORDANCE WITH AT&T STANDARDS.

ANTENNA MOUNTING NOTES

1. DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/NA-222 STANDARDS 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 OTHERWISE NOTED.
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 OTHERWISE NOTED.
4. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
5. ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH LOCK NUTS, DOUBLE NUTS AND SHALL BE TORQUED TO MANUFACTURER'S RECOMMENDATIONS.
6. ANTENNA CONTRACTOR SHALL ENSURE ALL ANTENNA MOUNTING PIPES ARE PLUMB AND LEVEL
7. MULTI PORT ANTENNAS: TERMINATE UNUSED ANTENNA PORTS WITH CONNECTOR CAP & WEATHERPROOF THOROUGHLY. JUMPERS FROM THE TMA'S MUST TERMINATE TO OPPOSITE POLARIZATION'S IN EACH SECTOR.
8. CONTRACTOR SHALL RECORD THE SERIAL #, SECTOR, AND POSITION OF EACH ACTUATOR INSTALLED AT THE ANTENNAS AND PROVIDE THE DOCUMENTATION TO AT&T.
9. CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND GROUNDING.

EQUIPMENT LIST

Existing or Proposed	Equipment Description	Qty	Number	Location
P	Alpha Sector Antennas	4	A1, A2, A3, A4	Sheet A-2.0
P	Beta Sector Antennas	4	B1, B2, B3, B4	Sheet A-2.0
P	Gamma Sector Antennas	4	C1, C2, C3, C4	Sheet A-2.0
P	Alpha Sector RRH	6	Quantity noted at each sector	Sheet A-2.0
P	Beta Sector RRH	6	Quantity noted at each sector	Sheet A-2.0
P	Gamma Sector RRH	6	Quantity noted at each sector	Sheet A-2.0
P	Surge Suppressors	3	Quantity noted at each sector (1 per sector)	Sheet A-2.0
P	Walk-In Cabinet	1	Quantity total of 1	Sheets A-1.0 & A-1.1
P	Walk-In Cabinet Platform	1	Quantity total of 1	Sheets A-1.0 & A-1.1
P	Generator	1	Quantity total of 1	Sheets A-1.0 & A-1.1
P	Generator Platform	1	Quantity total of 1	Sheets A-1.0 & A-1.1



NOTES:

- ANTENNA CONTRACTOR SHALL FURNISH & INSTALL (3) HEAVY 5 SITE PRO 1 VFA12-RRU AND (1) MSFAA MONOPOLE SECTOR FRAME ATTACHMENT ASSEMBLY WITH (4) 2 3/8" GALV. STEEL PIPES 8'-0" LONG WITH CROSSOVER PLATES WITH HARDWARE PER SECTOR OR APPROVED EQUAL.
- ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER TOWER MANUFACTURER'S STANDARD DETAILS.

ANTENNA LAYOUT

TOWER ELEVATION

TOWER ELEVATION AND ANTENNA LAYOUT

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TOWER ELEVATION & ANTENNA LAYOUT

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