

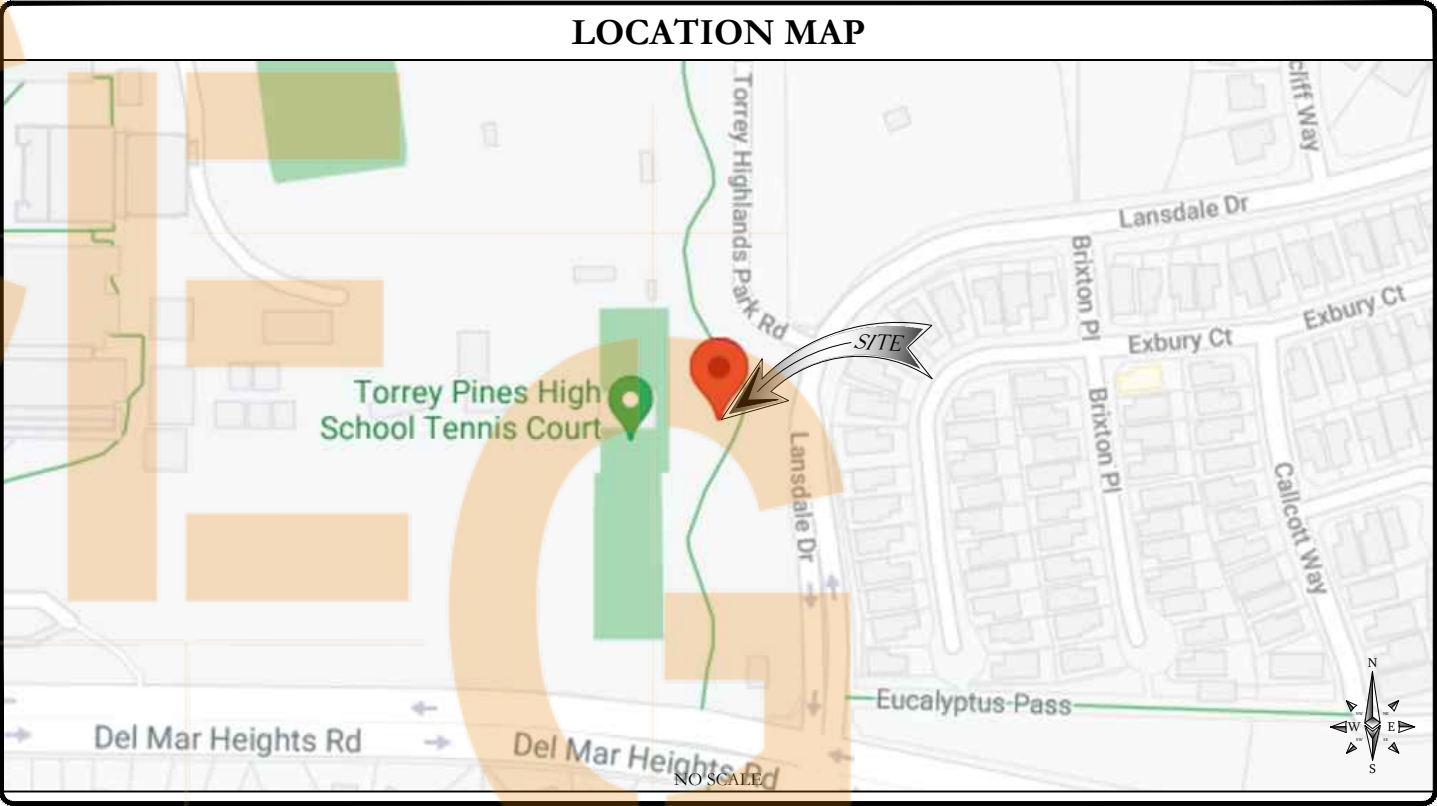


AT&T SITE NAME: DEL MAR
AT&T FA CODE: 10086254
AT&T PACE NUMBER: MRSDL037157
AT&T PROJECT: 5G NR UPGRADE

BUSINESS UNIT #: 814567
SITE ADDRESS: 3710 DEL MAR HEIGHTS ROAD
COUNTY: SAN DIEGO
SITE TYPE: MONOPOLE
TOWER HEIGHT: 95'-0"

SITE INFORMATION	
CROWN CASTLE USA INC. SITE NAME:	DEL MAR
SITE ADDRESS:	3710 DEL MAR HEIGHTS ROAD SAN DIEGO, CA 92649: 92130
COUNTY:	SAN DIEGO
MAP/PARCEL #:	098-090-69
AREA OF CONSTRUCTION:	EXISTING
LATTITUDE:	32.958011°
LONGITUDE:	-117.221781°
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	±371' AMSL
CURRENT ZONING:	TBD
JURISDICTION:	DIVISION OF STATE ARCHITECT
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	SCHOOL GARDEN GROVE UNIFIED DISTRICT TBD
TOWER OWNER:	CROWN CASTLE USA,INC 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	AT&T TOWER ASSET GROUP 7337 TRADE STREET SAN DIEGO, CA 92121
ELECTRIC PROVIDER:	----
TELCO PROVIDER:	----

DRAWING INDEX	
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A-2	ENLARGED SITE PLAN
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A-6	ELEVATIONS
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A-8	RF CABLING DIAGRAM
A-9	GROUNDING DETAILS
ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR FULL SIZE. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.	
CALL CALIFORNIA ONE CALL 811/(800) 422-4133 CALL 3 WORKING DAYS BEFORE YOU DIG!	



PROJECT TEAM	
A&E FIRM:	
CROWN CASTLE USA INC. DISTRICT CONTACTS:	200 SPECTRUM CENTER DRIVE, SUITE 1700 & 1800 IRVINE, CA 92618 CHRISTOPHER VOSS - PROJECT MANAGER CHRISTOPHER.VOSS@CROWNCastle.COM ---- - CONSTRUCTION MANAGER ----

PROJECT DESCRIPTION
THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.
TOWER SCOPE OF WORK: <ul style="list-style-type: none">REMOVE (3) EXISTING 7750 ANTENNASREMOVE (3) EXISTING ERICSSON TMASINSTALL (3) NEW AIR6449 N77 ANTENNAS
GROUND SCOPE OF WORK: <ul style="list-style-type: none">NONE
NOTES: <ol style="list-style-type: none">TOWER DOES NOT HAVE CLIMBING FACILITIES. MANLIFT REQUIRED FOR ELEVATED WORK.ALL NEW EQUIPMENT TO BE PAINTED TO MATCH EXISTINGPRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER.

APPLICABLE CODES/REFERENCE DOCUMENTS	
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:	
PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2020* 2019 California Administrative Code (CAC), Part 1, Title 24 CCR* 2019 California Building Code (CBC), Part 2, Title 24 CCR (2018 International Building Code, Vol. 1 & 2, and 2016 California amendments) 2019 California Electrical Code (CEC), Part 3, Title 24 CCR (2017 National Electrical Code and 2019 California Amendments) 2019 California Mechanical Code (CMC), Part 4, Title 24 CCR (2018 IAPMO Uniform Mechanical Code and 2019 California amendments) 2019 California Plumbing Code (CPC), Part 5, Title 24 CCR (2018 IAPMO Uniform Plumbing Code and 2019 California amendments) 2019 California Energy Code (CEC), Part 6, Title 24 CCR 2019 California Fire Code (CFC), Part 9, Title 24 CCR (2018 International Fire Code and 2019 California Amendments) 2019 California Existing Building Code (CEBC), Part 10, Title 24 CCR (2018 International Existing Building Code and 2019 California Amendments) 2019 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR 2019 California Referenced Standards Code, Part 12, Title 24 CCR Title 19 CCR, Public Safety, State Fire Marshal Regulations PARTIAL LIST OF APPLICABLE STANDARDS NFPA 13 - Standard for the Installation of Sprinkler Systems (CA amended).....2016 Edition NFPA 72 - National Fire Alarm and Signaling Code (CA amended).....2016 Edition	
REFERENCE DOCUMENTS: STRUCTURAL ANALYSIS: ---- DATED: ---- MOUNT ANALYSIS: ---- DATED: ---- RFDS REVISION: 1.0 DATED: 04/03/2019 ORDER ID: 568896 REVISION: 0	

7337 TRADE STREET
SAN DIEGO, CA 92121

200 SPECTRUM CENTER DRIVE,
SUITE 1700 & 1800
IRVINE, CA 92618

DRAWN BY: SA

CHECKED BY: VB

A	08/20/2021	90% CD'S FOR REVIEW	RDL
REV	DATE	DESCRIPTION	BY

THIS DOCUMENT IS PRELIMINARY IN NATURE AND IS NOT A FINAL, SIGNED AND SEALED DOCUMENT

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.

DSA #:

AT&T
SD0461
BU# 814567
DEL MAR
3710 DEL MAR HEIGHTS ROAD
SAN DIEGO, CA 92649: 92130

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

ABBREVIATIONS

A.B.	—ANCHOR BOLT(S)	L.L.V.	—LONG LEG VERTICAL
A.B.C.	—AGGREGATE BASE COURSE	LOC.	—LOCATION
A/C	—AIR CONDITIONING	LT.—LGT.	—LIGHT
A.C.I.	—AMERICAN CONCRETE INSTITUTE	L.W.H.	—LIGHT WEIGHT CONCRETE
ADDN'L.	—ADDITIONAL	MACH.	—MACHINE
ADJ.	—ADJUSTABLE	MAS.	—MASONRY
A.F.F.	—ABOVE FINISH FLOOR	MAT'L	—MATERIAL
A.I.S.C.	—AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MAX.	—MAXIMUM
A.M.S.L.	—ABOVE MEAN SEA LEVEL	M.B.	—MACHINE BOLT
APPROX.	—APPROXIMATE	MECH.	—MECHANICAL
ARCH'T.	—ARCHITECT OR ARCHITECTURAL DOCUMENTS	MEMB.	—MEMBRANE
A.S.T.A.	—AMERICAN SOCIETY FOR TESTING AND MATERIALS	MEZZ.	—MEZZANINE
A.W.U.	—AMERICAN WIRE GAUGE	MFR.	—MANUFACTURER
A.W.S.	—AMERICAN WELDING SOCIETY	MGR.	—MANAGER
AVG.	—AVERAGE	MID.	—MIDDLE
BLDG.	—BUILDING	MIN.	—MINIMUM
BLK.	—BLOCK	MISC.	—MISCELLANEOUS
BM.	—BEAM	M.O.	—MASONRY OPENING
BOT. OR B.	—BOTTOM	M.O.E. (POL)	—MODULES OF ELASTICITY
BRG.	—BEARING	M.P.E.	—MECHANICAL, PLUMBING, ELECTRICAL
BRK.	—BRICK	MTL	—METAL
BTWN.	—BETWEEN	N. OR NO.—NORTH	
B.W.	—BUTT WELD	N.A.	—NOT APPLICAL
CALCS.	—CALCULATIONS	N.A.A.M.M.	—NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS
CANT.	—CANTILEVER	N.F.	—NEAR FACE
C—C.	—CENTER TO CENTER	N.I.C.	—NOT IN CONTRACT
CEIL. OR CLG.	—CEILING	NO. OR #	—NUMBER
C.I.P.	—CAST IN PLACE	N.S.	—NEAR SIDE
C.J.	—CONTROL JOINT OR CONSTRUCTION JOINT	N.—S.	—NORTH — SOUTH
C.L.	—CHAIN LINK FENCE	N.T.S.	—NOT TO SCALE
CL. OR CLR.	—CLEAR	O.C. OR O/C	—ON CENTER
C.M.U.	—CONCRETE MASONRY UNIT	O.D.	—OUTSIDE DIAMETER
C.	—CENTER LINE	O.F.	—OUTSIDE FACE
CLOS.	—CLOSURE	O.H.	—OVERHANG
CLR.	—CLEAR	OPNG.	—OPENING
COL.	—COLUMN	OPP.	—OPPOSITE
CONC.	—CONCRETE	OPP. HD.	—OPPOSITE HAND
CONN.	—CONNECTION	P.C.I.	—PRESTRESSED CONCRETE INSTITUTE
CONSTR.	—CONSTRUCTION	P.C. OR P/C	—PRECAST
CONT.	—CONTINUE OR CONTINUOUS	P.C.F.	—POUNDS PER CUBIC FOOT
CONTR.	—CONTRACTOR	PEN.	—PENETRATION
CTR. OR CNTR.	—CENTER	P	—PLATE
CTR'D	—CENTERED	PERP.	—PERPENDICULAR
DBL.	—DOUBLE	P.L.	—PROPERTY LINE
DEPR.	—DEPRESSION	P.L.F.	—POUNDS PER LINEAL FOOT
DET. OR DTL.	—DETAIL	PLYWD.	—PLYWOOD
DIA. OR Ø	—DIAMETER	PLYWD.P.	—PANEL POINT OR PARTIAL PENETRATION
DIAG.	—DIAGONAL	PR.	—PAIR
DIM.	—DIMENSION	PRELIM.	—PRELIMINARY
D.L.	—DEAD LOAD	PROJ.	—PROJECT
DN.	—DOWN	PROP.	—PROPERTY
DP.	—DEEP OR DEPTH	P.S.I.	—POUNDS PER SQUARE INCH
DWG.	—DRAWING(S)	P.T.	—PRESSURE TREATED
DWL.	—DOWEL	R. OR RAD.	—RADIUS
EA.	—EACH	R.	—RISER (STAIR)
E.F.	—EACH FACE	REINF.	—REINFORCED OR REINFORCING
E.J.	—EXPANSION JOINT	REQ'D.	—REQUIRED
E. OR ELECT'L.	—ELECTRICAL	RM.	—ROOM
EL. OR ELEV.	—ELEVATION	R.O.	—ROUGH OPENING
ENGR.	—ENGINEER	S. OR SO.—SOUTH	
EF.	—EQUAL	S (IN)	—SECTION MODULES
EQUIP.	—EQUIPMENT	SCHED.	—SCHEDULE
E.S.	—EACH SIDE	SECT.	—SECTION
E.W.	—EACH WAY	S.G.C.	—SAND, GRAVEL, COBBLES SOIL LAYER
E—W.	—EAST — WEST	SHTHG.	—SHEATHING
EXC.	—EXCAVATE	SH. OR SHT.	—SHEET
EXIST.	—EXISTING	SIM.	—SIMILAR
EXP.	—EXPANSION	S.L.H.	—SHORT LEG HORIZONTAL
EXT.	—EXTERIOR	S.L.V.	—SLEEVE OR SHORT LEG VERTICAL
FAB.	—FABRICATE	S.J.I.	—STEEL JOIST INSTITUTE
FND.	—FOUNDATION	S.J.G.	—SLAB ON GRADE
F.F.	—FAR FACE	SP. OR SPCS	—SPACES
FIN.	—FINISH	SPCG.	—SPACING
FLG.	—FLANGE	SPEC.	—SPECIFICATION
FLR.	—FLOOR	SQ.	—SQUARE
FLUOR.	—FLUORESCENT	S.S.	—STAINLESS STEEL
F.O.M.	—FACE OF MASONRY	STD.	—STANDARD
FRMG.	—FRAMING	STIFF.	—STIFFENER
F.S.	—FAR SIDE	STL.	—STEEL
FT.	—FOOT — FEET	STRUCT.	—STRUCTURE OR STRUCTURAL
FTG.	—FOOTING	SUSP.	—SUSPENDED
F.W.	—FILLET WELD	SUSP.V.	—SHEET VINYL
FY.	—YIELD STRESS OF STEEL	SYMM.	—SYMMETRICAL
GA.	—GAGE OR GAUGE	T.	—TOP OR TREAD (STAIR)
GALV.	—GALVANIZED	T. & B.	—TOP AND BOTTOM
G.C. OR GEN. CONTR.	—GENERAL CONTRACTOR	T. & G.	—TONGUE AND GROOVE
GLU—LAM	—GLUE LAMINATED	THK.	—THICK OR THICKNESS
GR. OR GRD.	—GRADE	THK'ND.	—THICKENED
GRND.	—GROUND	THRU.	—THROUGH
G.S.A.	—GENERAL STRUCTURAL NOTES	T.L.	—TOTAL LOAD
G.S.B.	—GYPSUM WALL BOARD	TNND.	—TINNED
GYP. BD.	—GYPSUM BOARD	T.O.C.	—TOP OF CONCRETE
H.A.S.	—HEADED ANCHOR STUD	T.O.M.	—TOP OF MASONRY
HARD'WD.	—HARDWOOD	TOPG.	—TOPPING
HORIZ.—HOR.	—HORIZONTAL	T.O.S.	—TOP OF STEEL
HR.	—HOUR	TR.	—TRUSS
H.S.	—HIGH STRENGTH	U.B.C.	—UNIFORM BUILDING CODE
HT.	—HEIGHT	U.N.O.	—UNLESS NOTED OTHERWISE
HVAC	—HEATING, VENTING, AND AIR CONDITIONING	TYP.	—VERTICAL
I. (IN)	—MOMENT OF INERTIA	V.I.F.	—VERIFY IN FIELD
I.C.B.O.	—INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS	V.T.	—VINYL TILE
I.D.	—INSIDE DIAMETER	W.	—WEST
I.F.	—INSIDE FACE	W/O	—WITH
IN.	—INCH	WIN.	—WINDOW
INCL.	—INCLUDE	W/O	—WITHOUT
INFO.	—INFORMATION	WD.	—WOOD
INSUL.	—INSULATION	WT. OR WGT.	—WEIGHT
INT.	—INTERIOR	W.W.F. OR W.W.M.	—WELDED WIRE FABRIC
JT.	—JOINT	X—BRACE	—CROSS BRACING
K	—KIP = 1000 LBS.	X—STRONG	—EXTRA STRONG
LB. OR #	—POUND(S)	XX—STRONG	—DOUBLE EXTRA STRONG
LG.	—LONG		
L.L.	—LIVE LOAD		
L.L.H.	—LONG LEG HORIZONTAL		

TITLE—24 PART I OUTLINE REQUIREMENTS

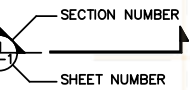
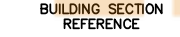




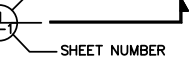



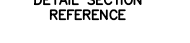

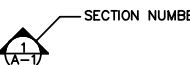

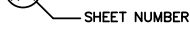



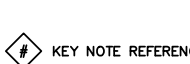

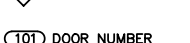

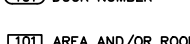

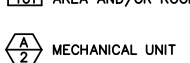





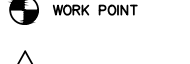

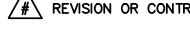







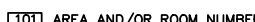







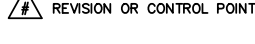






● DUTIES OF THE ARCHITECT, STRUCTURAL ENGINEER, OR PROFESSIONAL ENGINEER	TITLE—24 PART I	4—341
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INSPECTION CLASSIFICATION NOTE:

AN INSPECTOR OF RECORD (IOR) SHALL BE APPROVED BY THE DSA DISTRICT ENGINEER AND SHALL CONFORM TO THE CLASSIFICATION CRITERIA AS PROVIDED IN INTERPRETATION OF REGULATIONS (IR) A-7, DATED REVISED 07-17-13.

THE PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE PROJECT. ALL WORK SHALL BE INSPECTED BY A PROJECT INSPECTOR WHO IS APPROVED BY THE DIVISION OF THE STATE ARCHITECT. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. AND CONFORM TO CLASSIFICATION IR (A-7), DATED REVISED 07-17-13, CLASS 3 PROJECT.

SYMBOLS

	SECTION NUMBER		BUILDING SECTION REFERENCE
	SHEET NUMBER		DETAIL NUMBER
	DETAIL REFERENCE		SHEET NUMBER
	SECTION NUMBER		MASONRY
	SHEET NUMBER		BRICK
	DETAIL SECTION REFERENCE		CONCRETE
	SECTION NUMBER		EARTH
	SHEET NUMBER		STEEL
	DETAIL SECTION REFERENCE		GRAVEL
	SECTION NUMBER		CENTER LINE
	SHEET NUMBER		PROPERTY LINE
	DETAIL SECTION REFERENCE		LEASE LINE
	SECTION NUMBER		EASEMENT LINE
	SHEET NUMBER		RIGHT—OF—WAY
	DETAIL SECTION REFERENCE		CHAIN LINK FENCE
	SECTION NUMBER		WOOD FENCE
	SHEET NUMBER		SILT FENCE
	DETAIL SECTION REFERENCE		BELOW GRADE ELECTRIC
	KEY NOTE REFERENCE		BELOW GRADE TELEPHONE
	DOOR NUMBER		OVERHEAD ELECTRIC/TELEPHONE
	AREA AND/OR ROOM NUMBER		OVERHEAD TELEPHONE
	MECHANICAL UNIT		OVERHEAD ELECTRIC
	UTILITY POLE		CONTOUR
	WORK POINT		TREE PROTECTION FENCE
	REVISION OR CONTROL POINT		TREE LINE
	(REFERENCE POINT) (ELEVATION)		TREES, SHRUBS, BUSHES
	ELEVATION REFERENCE		SANITARY SEWER LINE
			WATER LINE
			NATURAL GAS LINE

SUPPLEMENTARY CONDITIONS:

- ALL WORK SHALL COMPLY WITH 2019 TITLE 24, C.C.R., PARTS 1-6, 9, AND 12
- TITLE 24, PARTS 1-5 MUST BE KEPT ON TE SITE DURING CONSTRUCTION
- SUBSTITUTIONS AFFECTING DDSA REGULATED ITEMS WILL BE CONSIDERED AS CHANGES TO APPROVED PLANS OR SPECIFICATIONS. THEY ARE TO BE TREATED AS ADDENDA OR CHANGE ORDERS, AND WILL REQUIRE DSA'S APPROVAL PRIOR TO FABRICATION AND INSTALLATION. (SEC. 4-338(C), PART 1, AND IR A-6)
- ADDENDA MUST BE STAMPED AND SIGNED BY A/E ON RECORD AND DELEGATED DESIGN PROFESSIONAL WHEN APPLICABLE, AND APPROVED BY DSA.(SEC. 4-338 (SEC. 4-338(b), PART I)
- CONSTRUCTION CHANGE DIRECTIVES MUST BE SIGNED BY A/E OF RECORD DELEGATED DESIGN PROFESSIONAL AND APPROVED BY DSA.
- CHANGE ORDERS AND SUPPLEMENTARY DRAWINGS MUST BE STAMPED AND SIGNED BY A/E OR RECORD AND DELEGATED DESIGN PROFESSIONAL WHEN APPLICABLE SIGNED BY OWNER, AND APPROVED BY DSA. (SEC. 4-338(c), PART I)
- A PROJECT INSPECTOR AND TESTING LAB WHEN REQUIRED MUST BE EMPLOYED BY THE OWNER AND APPROVED BY A/E OR RECORD, STRUCTURAL ENGINEER WHEN APPLICABLE, AND DSA. (SEC. 4-341(d), PART I)
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPERATE SET OF PLANS AND SPECIFICATIONS DETAILINGS AND SPECIFYING THE REQUIRES WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)
- ALL WORK SHALL CONFORM TO EDITION 2019 EDITION TITLE, CALIFORNIA CODE OF REGULATIONS (CCR)
- A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES FOR THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. CLASS 3.
- A DSA ACCEPTED TESTING LABRATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER), SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

NOTES:

- Fabrication and installation of deferred submittal items shall not be started until contractor's drawings, specifications, and engineering calculations for the actual systems to be installed have been accepted and signed by the architect or structural engineer and approved by the DSA. List deferred submittal items for this project.
- Changes to the approved drawings and specifications shall be made by an addendum or a construction changed document (CCD) approved by the Division of the State Architect, as required by Section 4-338, Part 1, Title 24, CCR.
- Grading plans, drainage improvements, road and access requirements and environmental health considerations shall comply with all local ordinances.

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

(Application No. _____ File No. _____)

☐ The drawings or sheets listed:

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for :

- coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. (Title 24, Part 1, Section 4 -317 (b))

I find that: ☐ All drawings or sheets listed on the cover or index sheet ☐ This drawing or page

☐ is/are in general conformance with the project design, and ☐ has/have been coordinated with the project plans and specifications.

Signature _____ Date _____ Print Name _____
Architect or Engineer designated to be in general responsible charge License Number _____ Expiration Date _____



7337 TRADE STREET
SAN DIEGO, CA 92121



200 SPECTRUM CENTER DRIVE,
SUITE 1700 & 1800
IRVINE, CA 92618

DRAWN BY: SA

CHECKED BY: VB

A	08/20/2021	90% CD'S FOR REVIEW	RDL
REV	DATE	DESCRIPTION	BY

**THIS DOCUMENT IS
PRELIMINARY IN
NATURE AND IS NOT
A FINAL, SIGNED AND
SEALED DOCUMENT**

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.

DSA #:

AT&T
SD0461
BU# 814567
DEL MAR
3710 DEL MAR HEIGHTS ROAD
SAN DIEGO, CA 92649: 92130

SHEET TITLE
GENERAL NOTES

SHEET NUMBER

T-2

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

1. NOTICE TO PROCEED-- NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN CASTLE USA INC. NOC AT 800-788-7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.
2. "LOOK UP" - CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT:
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 CROWN CASTLE USA INC. 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.
4. 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 CROWN CASTLE USA INC. STANDARD CED--STD--10253, 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).
5. ALL SITE WORK TO COMPLY WITH OAS--STD--10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE" AND LATEST VERSION OF ANSI/TIA--1019--A--2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
6. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
7. 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.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
10. 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.
11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
13. 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 CONTRACTOR, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES.
14. 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.
15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
17. 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.
18. 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.
19. 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.
20. 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.
21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
22. 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.

GREENFIELD 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' H. 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).

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION
CARRIER: AT&T
TOWER OWNER: CROWN CASTLE USA INC.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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 CROWN CASTLE.
7. 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.
8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
9. 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 CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL 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 CROWN CASTLE USA INC.
13. 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.
14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

APWA UNIFORM COLOR CODE:

WHITE	PROPOSED EXCAVATION
PINK	TEMPORARY SURVEY MARKINGS
RED	ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES
YELLOW	GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS
ORANGE	COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS
BLUE	POTABLE WATER
PURPLE	RECLAIMED WATER, IRRIGATION, AND SLURRY LINES
GREEN	SEWERS AND DRAIN LINES

CONDUCTOR COLOR CODE		
SYSTEM	CONDUCTOR	COLOR
120/240V, 1Ø	A PHASE	BLACK
	B PHASE	RED
	NEUTRAL	WHITE
	GROUND	GREEN
120/208V, 3Ø	A PHASE	BLACK
	B PHASE	RED
	C PHASE	BLUE
	NEUTRAL	WHITE
277/480V, 3Ø	GROUND	GREEN
	A PHASE	BROWN
	B PHASE	ORANGE OR PURPLE
	C PHASE	YELLOW
DC VOLTAGE	NEUTRAL	GREY
	GROUND	GREEN
	POS (+)	RED**
	NEG (-)	BLACK**

* SEE NEC 210.5(C)(1) AND (2)
** POLARITY MARKED AT TERMINATION

ABBREVIATIONS (CONTINUED):

ANT	ANTENNA
(E)	EXISTING
FIF	FACILITY INTERFACE FRAME
GEN	GENERATOR
GPS	GLOBAL POSITIONING SYSTEM
OSM	GLOBAL SYSTEM FOR MOBILE
LTE	LONG TERM EVOLUTION
MGB	MASTER GROUND BAR
MW	MICROWAVE
(N)	NEW
NEC	NATIONAL ELECTRIC CODE
(P)	PROPOSED
PP	POWER PLANT
QTY	QUANTITY
RECT	RECTIFIER
RBS	RADIO BASE STATION
RET	REMOTE ELECTRIC TILT
RDFS	RADIO FREQUENCY DATA SHEET
RRH	REMOTE RADIO HEAD
RRU	REMOTE RADIO UNIT
SIAD	SMART INTEGRATED DEVICE
TMA	TOWER MOUNTED AMPLIFIER
UMTS	UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM

STATEMENT OF SPECIAL INSPECTIONS:

- THE FOLLOWING SPECIAL INSPECTIONS, WHERE APPLICABLE, SHALL BE REQUIRED PER CHAPTER 17 OF THE 2019 CBC.
- SPECIAL INSPECTION OF FIELD WELDING WHERE PERMITTED (PERIODIC OR CONTINUOUS AS REQUIRED BY THE 2019 CBC).
 - PERIODIC SPECIAL INSPECTION OF PLACEMENT OF REINFORCING STEEL.
 - CONTINUOUS SPECIAL INSPECTION OF CONCRETE PLACEMENT.

SPECIAL INSPECTION NOT REQUIRED FOR WORK OF A MINOR NATURE OR AS WARRANTED BY CONDITIONS IN THE JURISDICTION AS APPROVED BY THE BUILDING OFFICIAL. THUS, INSPECTION ITEMS ABOVE MAY BE WAIVED AS DEEMED APPROPRIATE BY THE BUILDING OFFICIAL.

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2. 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.
4. 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.
 - 4.2. 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. VERIFYIFY 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 GOVERNMENT JURISDICTION.
5. 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.
6. 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).
7. PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
8. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
9. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN--2, XHHW, XHHW--2, THW, THW--2, RHW, OR RHW--2 INSULATION UNLESS OTHERWISE SPECIFIED.
10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN--2, XHHW, XHHW--2, THW, THW--2, RHW, OR RHW--2 INSULATION UNLESS OTHERWISE SPECIFIED.
11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI--CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
12. 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.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP--STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT) OR METAL--CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
18. LIQUID--TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID--TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION--TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE NEC.
21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECIMATE WIREWAY).
22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
23. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON--PERFORATED STRAPS AND HANGERS. EXPLOSIVE 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. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY--COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR BETTER) FOR EXTERIOR LOCATIONS.
25. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY--COATED OR NON--CORRODING; SHALL MEET OR 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. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC. BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
29. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "AT&T".
30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.



7337 TRADE STREET
SAN DIEGO, CA 92121



200 SPECTRUM CENTER DRIVE,
SUITE 1700 & 1800
IRVINE, CA 92618

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CHECKED BY: VB

A	08/20/2021	90% CD'S FOR REVIEW	RDL	
REV	DATE	DESCRIPTION	BY	

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DSA #:

AT&T
SD0461
BU# 814567
DEL MAR

3710 DEL MAR HEIGHTS ROAD
SAN DIEGO, CA 92649: 92130

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
T-3

NOTES:

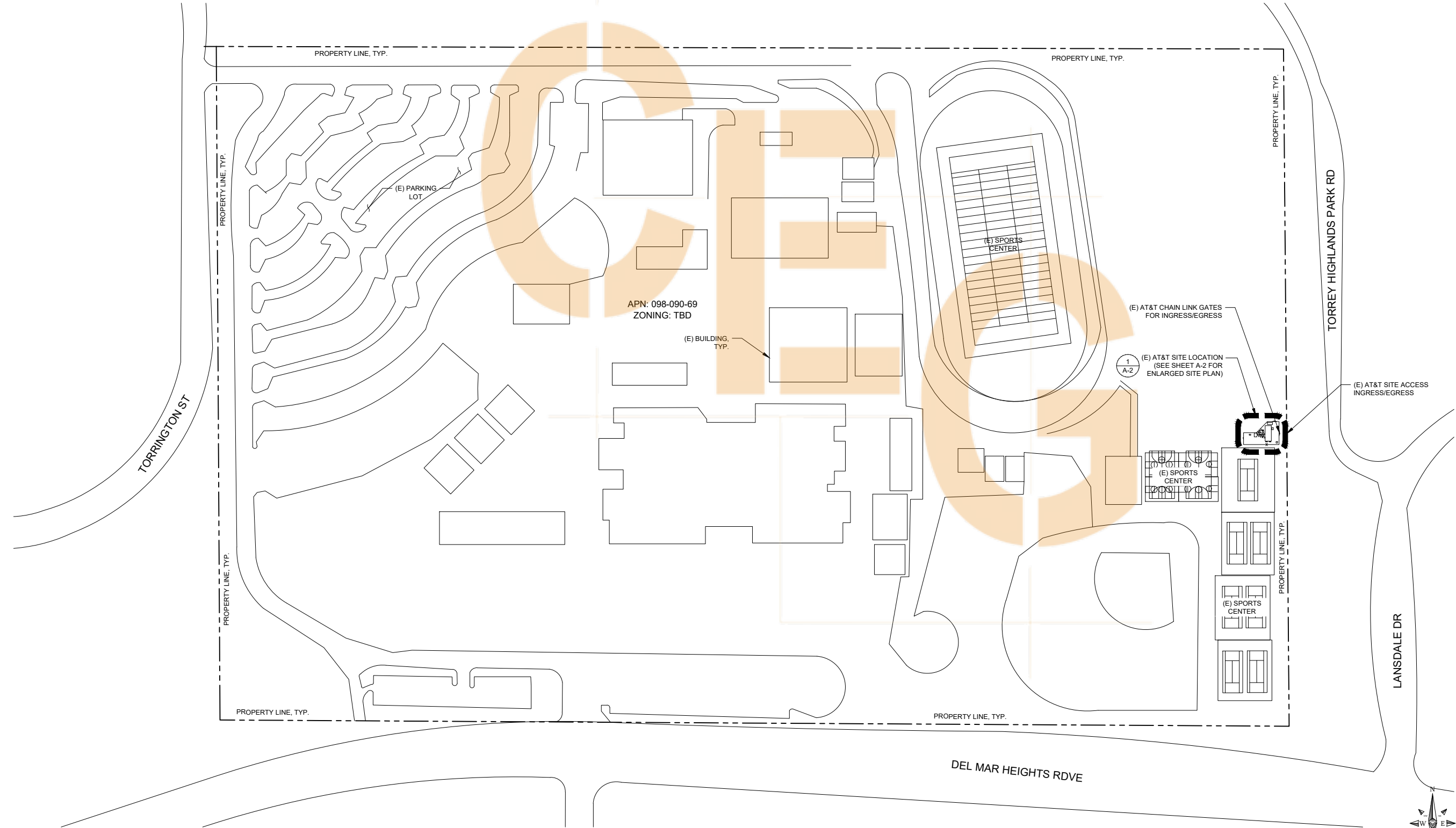
1. THE WIRELESS COMMUNICATION FACILITY COMPLIES WITH FEDERAL STANDARDS FOR RADIO FREQUENCY IN ACCORDANCE WITH THE TELECOMMUNICATION ACT OF 1996 AND SUBSEQUENT AMENDMENTS AND ANY OTHER REQUIREMENTS IMPOSED BY STATE OR FEDERAL REGULATORY AGENCIES.
2. NO EXISTING PARKING STALLS ARE BEING ADDED OR REMOVED AS PART OF THE NEW INSTALLATION.
3. THESE DRAWINGS WERE PRODUCED WITHOUT THE BENEFIT OF A CURRENT LAND SURVEY. ALL PROPERTY LINES, EASEMENTS, SETBACKS, AND EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION.

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DSA APPLICATION NO. HISTORY			
DSA APPL. NO.	DATE PERMITTED	DATE CERTIFIED	

PENDING





7337 TRADE STREET
SAN DIEGO, CA 92121



200 SPECTRUM CENTER DRIVE,
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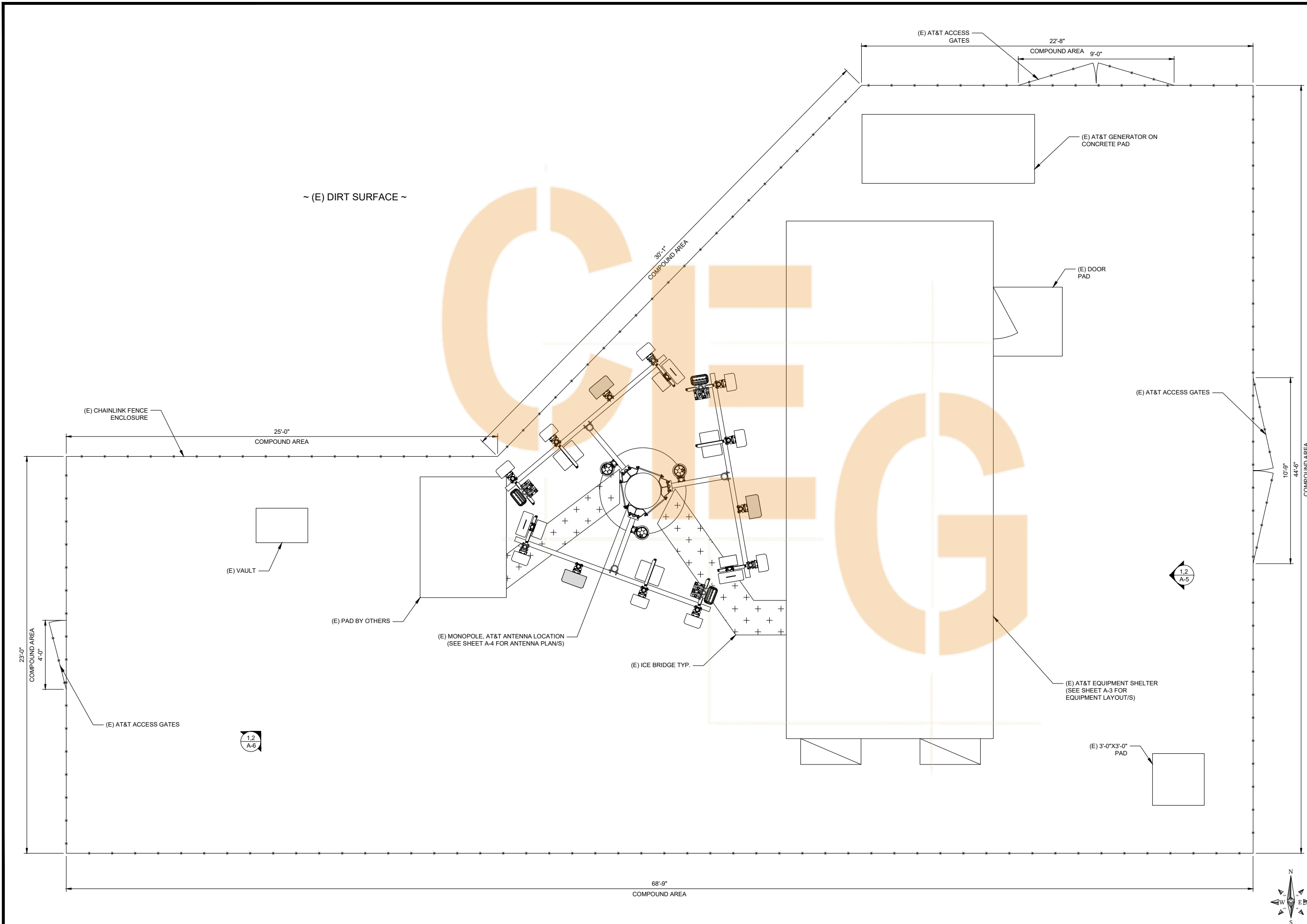
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SAN DIEGO, CA 92649: 92130

SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
A-1





ENLARGED SITE PLAN

24"x36" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/16" = 1'-0"


7337 TRADE STREET
SAN DIEGO, CA 92121


200 SPECTRUM CENTER DRIVE,
SUITE 1700 & 1800
IRVINE, CA 92618

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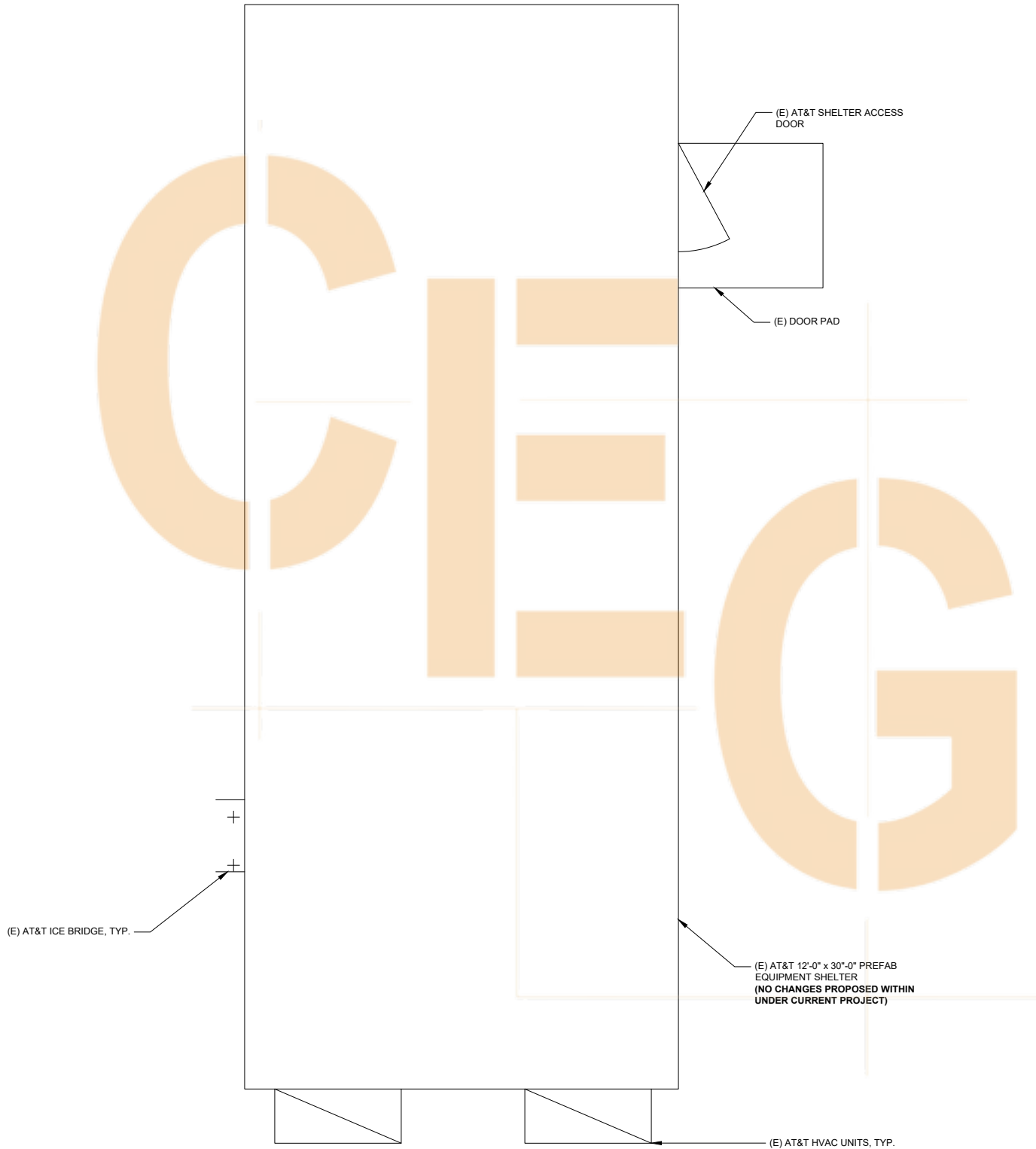
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SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
A-2

NOTE:
EQUIPMENT LAYOUT INSIDE SHELTER NOT
SHOWN FOR CLARITY AS THERE ARE NO
PROPOSED CHANGES WITH THIS EQUIPMENT.





AT&T
7337 TRADE STREET
SAN DIEGO, CA 92121



CROWN CASTLE
200 SPECTRUM CENTER DRIVE,
SUITE 1700 & 1800
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BU# 814567
DEL MAR
3710 DEL MAR HEIGHTS ROAD
SAN DIEGO, CA 92649: 92130

SHEET TITLE

EQUIPMENT LAYOUT

SHEET NUMBER

A-3



	POS.	TECH.	ANTENNA MAKE		RAD CENTER	AZIMUTH	RADIO MODEL	TMA	DIPLEXER OR FILTER	FEEDER TYPE	FEEDER LENGTH	*HCS
SECTOR A	A1	LTE	KATHREIN 800-10964 K	55"x11.85"x7.1"	95°-0"	80°	(1) 4449 B5/B12 (1) RRUS-32 B2	-	-	FIBER	±10'	
	A2	LTE 5G	**POWERWAVE 7750	55"x11"x4"	95°-0"	80°	-	** (1) ERICSSON TMA	-	FIBER	±119'	
	A3	LTE 5G	KATHREIN 800-10964 K	55"x11.85"x7.1"	95°-0"	80°	(1) RRUS-32 B66A (1) 4478 B14	-	-	FIBER	-	
	A4	LTE UMTS	KATHREIN 800-10964 K	55"x11.85"x7.1"	95°-0"	80°	(1) RRUS-32 B30	-	(1) WCS-IMFQ-AMT	COAX FIBER	-	
SECTOR B	B1	LTE	KATHREIN 800-10964 K	55"x11.85"x7.1"	95°-0"	200°	(1) 4449 B5/B12 (1) RRUS-32 B2	-	-	FIBER	±10'	
	B2	LTE 5G	**POWERWAVE 7750	55"x11"x4"	95°-0"	200°	-	** (1) ERICSSON TMA	-	FIBER	±119'	
	B3	LTE 5G	KATHREIN 800-10964 K	55"x11.85"x7.1"	95°-0"	200°	(1) RRUS-32 B66A (1) 4478 B14	-	-	FIBER	-	
	B4	LTE UMTS	KATHREIN 800-10964 K	55"x11.85"x7.1"	95°-0"	200°	(1) RRUS-32 B30	-	(1) WCS-IMFQ-AMT	COAX FIBER	-	
SECTOR C	C1	LTE	KATHREIN 800-10964 K	55"x11.85"x7.1"	95°-0"	320°	(1) 4449 B5/B12 (1) RRUS-32 B2	-	-	FIBER	±10'	
	C2	LTE 5G	**POWERWAVE 7750	55"x11"x4"	95°-0"	320°	-	** (1) ERICSSON TMA	-	FIBER	±119'	
	C3	LTE 5G	KATHREIN 800-10964 K	55"x11.85"x7.1"	95°-0"	320°	(1) RRUS-32 B66A (1) 4478 B14	-	-	FIBER	-	
	C4	LTE UMTS	KATHREIN 800-10964 K	55"x11.85"x7.1"	95°-0"	320°	(1) RRUS-32 B30	-	(1) WCS-IMFQ-AMT	COAX FIBER	-	* DENOTES SHARED CABLES
(12) TOTAL ANTENNAS: (9) TO REMAIN (3) TO BE REMOVED				(15) TOTAL RRUS ON TOWER (15) TO REMAIN (0) TO BE REMOVED				* DENOTES GROUND LOCATION ** DENOTES EQUIPMENT TO BE REMOVED				

	POS.	TECH.	ANTENNA MAKE		RAD CENTER	AZIMUTH	RADIO MODEL	TMA	DIPLEXER OR FILTER	FEEDER TYPE	FEEDER LENGTH	*HCS
SECTOR A	A1	LTE-OFF	KATHREIN 800-10964 K	55"x11.85"x7.1"	95°-0"	80°	(1) 4449 B5/B12 (1) RRUS-32 B2	-	-	FIBER	±10'	
	A2	5G	ERICSSON AIR6449 N77	31"x15.9"x8.7"	95°-0"	80°	-	-	-	FIBER	±123'	
	A3	LTE 5G	KATHREIN 800-10964 K	55"x11.85"x7.1"	95°-0"	80°	(1) RRUS-32 B66A (1) 4478 B14	-	-	FIBER	-	
	A4	LTE UMTS	KATHREIN 800-10964 K	55"x11.85"x7.1"	95°-0"	80°	(1) RRUS-32 B30	-	(1) WCS-IMFQ-AMT	COAX FIBER	-	
SECTOR B	B1	LTE-OFF	KATHREIN 800-10964 K	55"x11.85"x7.1"	95°-0"	200°	(1) 4449 B5/B12 (1) RRUS-32 B2	-	-	FIBER	±10'	
	B2	5G	ERICSSON AIR6449 N77	31"x15.9"x8.7"	95°-0"	200°	-	-	-	FIBER	±123'	
	B3	LTE 5G	KATHREIN 800-10964 K	55"x11.85"x7.1"	95°-0"	200°	(1) RRUS-32 B66A (1) 4478 B14	-	-	FIBER	-	
	B4	LTE UMTS	KATHREIN 800-10964 K	55"x11.85"x7.1"	95°-0"	200°	(1) RRUS-32 B30	-	(1) WCS-IMFQ-AMT	COAX FIBER	-	
SECTOR C	C1	LTE-OFF	KATHREIN 800-10964 K	55"x11.85"x7.1"	95°-0"	320°	(1) 4449 B5/B12 (1) RRUS-32 B2	-	-	FIBER	±10'	
	C2	5G	ERICSSON AIR6449 N77	31"x15.9"x8.7"	95°-0"	320°	-	-	-	FIBER	±123'	
	C3	LTE 5G	KATHREIN 800-10964 K	55"x11.85"x7.1"	95°-0"	320°	(1) RRUS-32 B66A (1) 4478 B14	-	-	FIBER	-	
	C4	LTE UMTS	KATHREIN 800-10964 K	55"x11.85"x7.1"	95°-0"	320°	(1) RRUS-32 B30	-	(1) WCS-IMFQ-AMT	COAX FIBER	-	* DENOTES SHARED CABLES
(12) TOTAL ANTENNAS				(15) TOTAL RRUS ON TOWER				* DENOTES GROUND LOCATION				

NOTE:
(E) ANTENNA AZIMUTHS ARE ESTIMATED AND ARE TO BE VERIFIED BY RF.

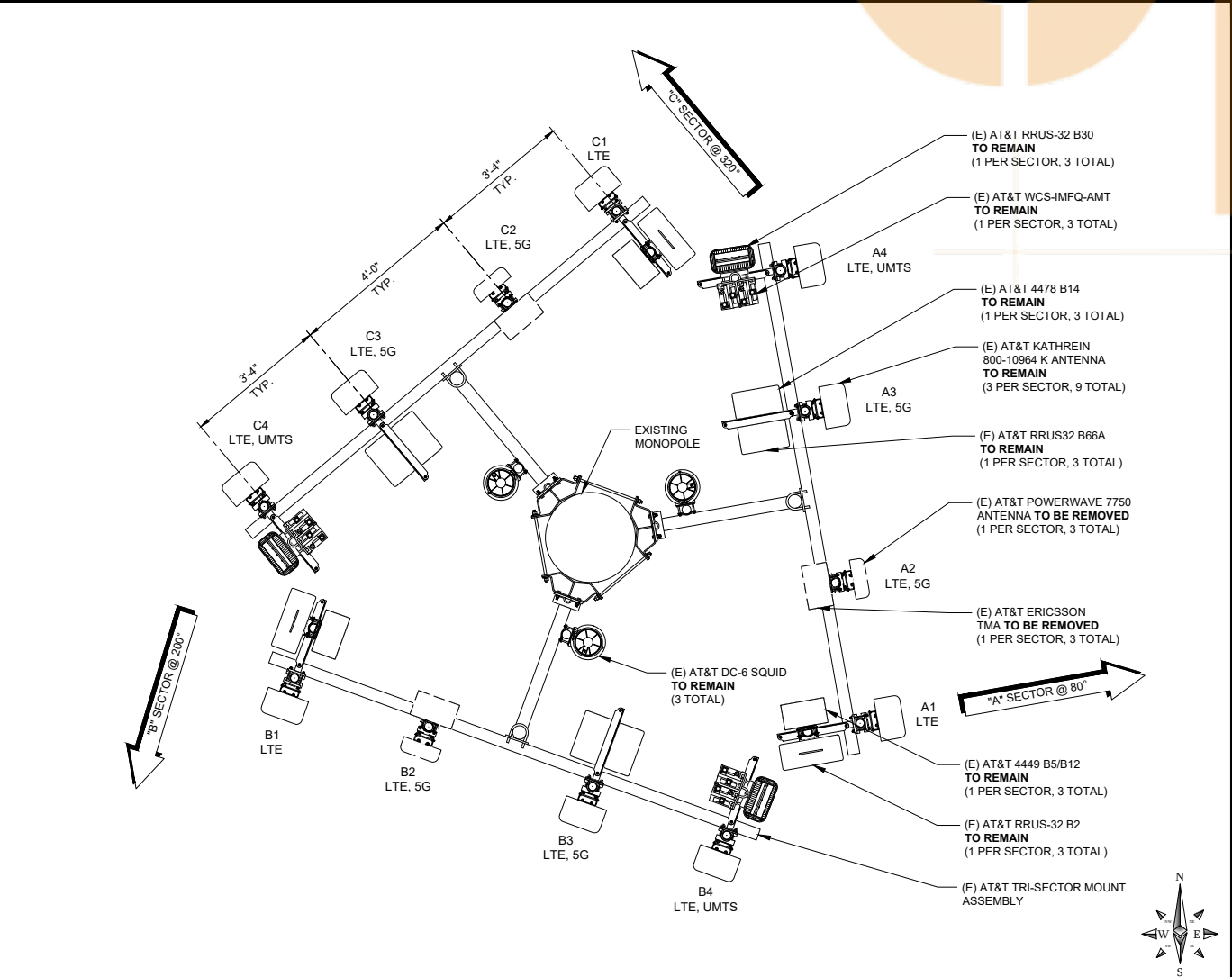
- NOTES TO CONTRACTOR:
- IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THE GENERAL EQUIPMENT FIELD CONDITIONS AS SHOWN ON THESE PLANS. IF ANY DISCREPANCIES ARE FOUND, THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE CARRIER, ARCHITECT/ENGINEER, AND ANY OTHERS LISTED ON T-1 PROJECT TEAM CONTACTS PROVIDED.
 - CONTRACTOR IS TO REFER TO T-MOBILE'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDs) PRIOR TO CONSTRUCTION
 - CABLE LENGTHS WERE DETERMINED BASED ON VISUAL INSPECTION DURING SITE-WALK. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK
 - CONTRACTOR TO VERIFY PORTS HAVE SUFFICIENT ROOM FINAL STRUCTURAL DESIGN, ANALYSIS AND APPROVAL PROVIDED BY OTHERS. CONTRACTOR TO VERIFY EQUIPMENT INSTALLED IS PER FINAL STRUCTURAL ANALYSIS :
 - BY: DATED:
 - FINAL MOUNT DESIGN, ANALYSIS, AND APPROVAL PROVIDED BY OTHERS. CONTRACTOR TO VERIFY EQUIPMENT INSTALLED IS PER FINAL ANTENNA MOUNT ANALYSIS: BY: DATED:

EXISTING ANTENNA & EQUIPMENT SCHEDULE

3

FINAL ANTENNA & EQUIPMENT SCHEDULE

4

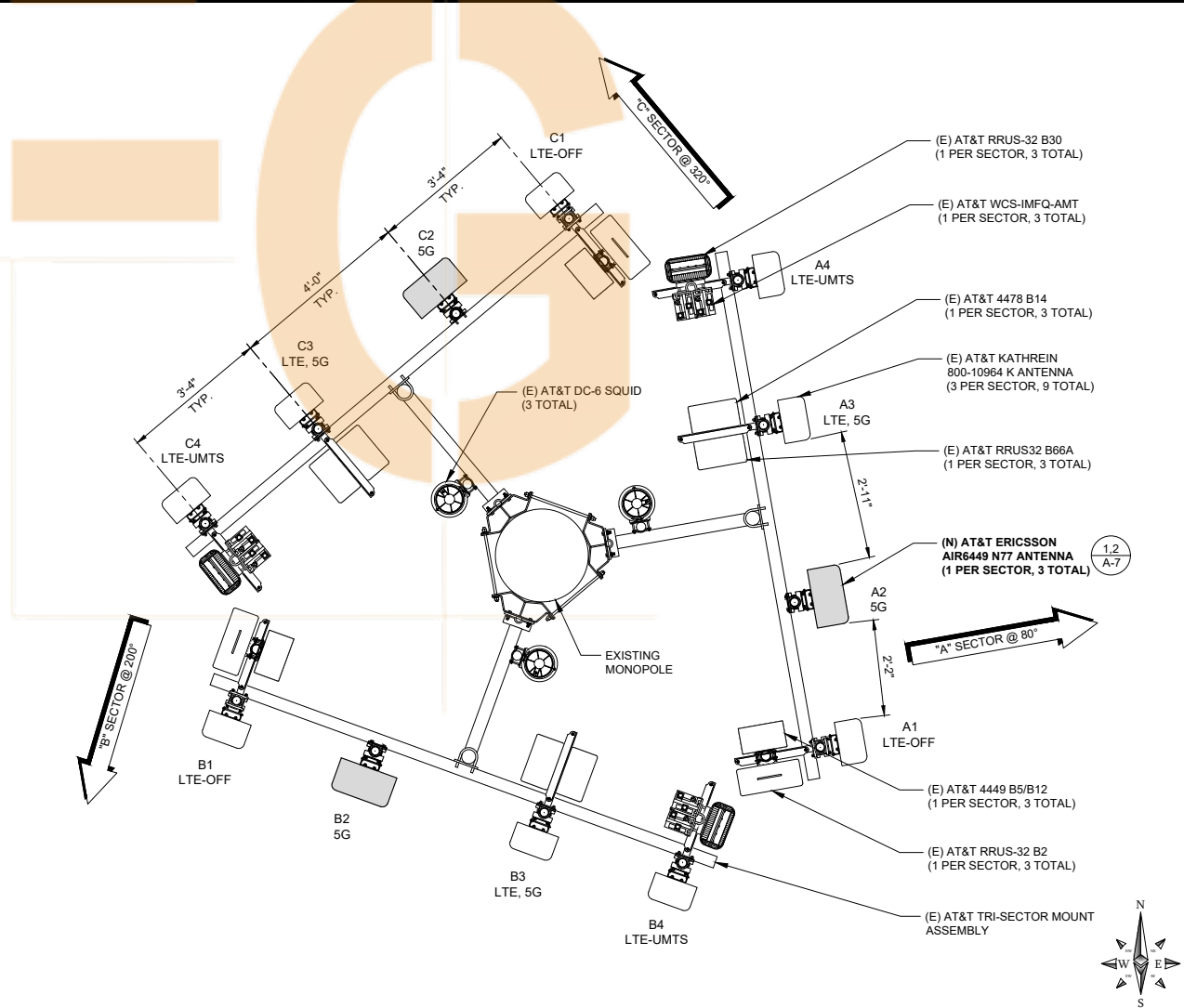


EXISTING ANTENNA PLAN

24"x36" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"

1

NEW ANTENNA PLAN



24"x36" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"

2



7337 TRADE STREET
SAN DIEGO, CA 92121



200 SPECTRUM CENTER DRIVE,
SUITE 1700 & 1800
IRVINE, CA 92618

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CHECKED BY: VB

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REV	DATE	DESCRIPTION	BY

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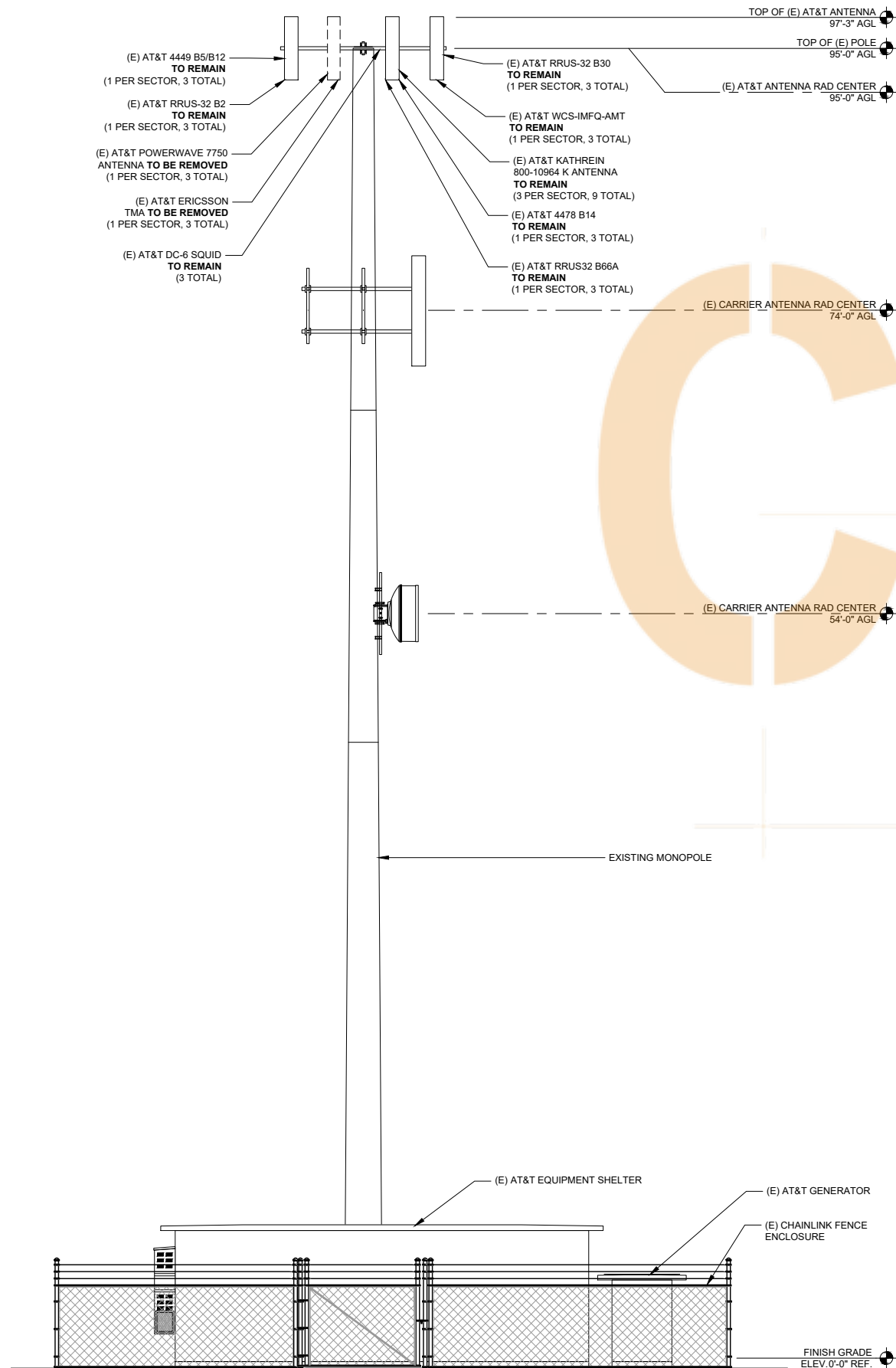
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3710 DEL MAR HEIGHTS ROAD
SAN DIEGO, CA 92649: 92130

SHEET TITLE
**ANTENNA PLANS AND
EQUIPMENT SCHEDULES**

SHEET NUMBER

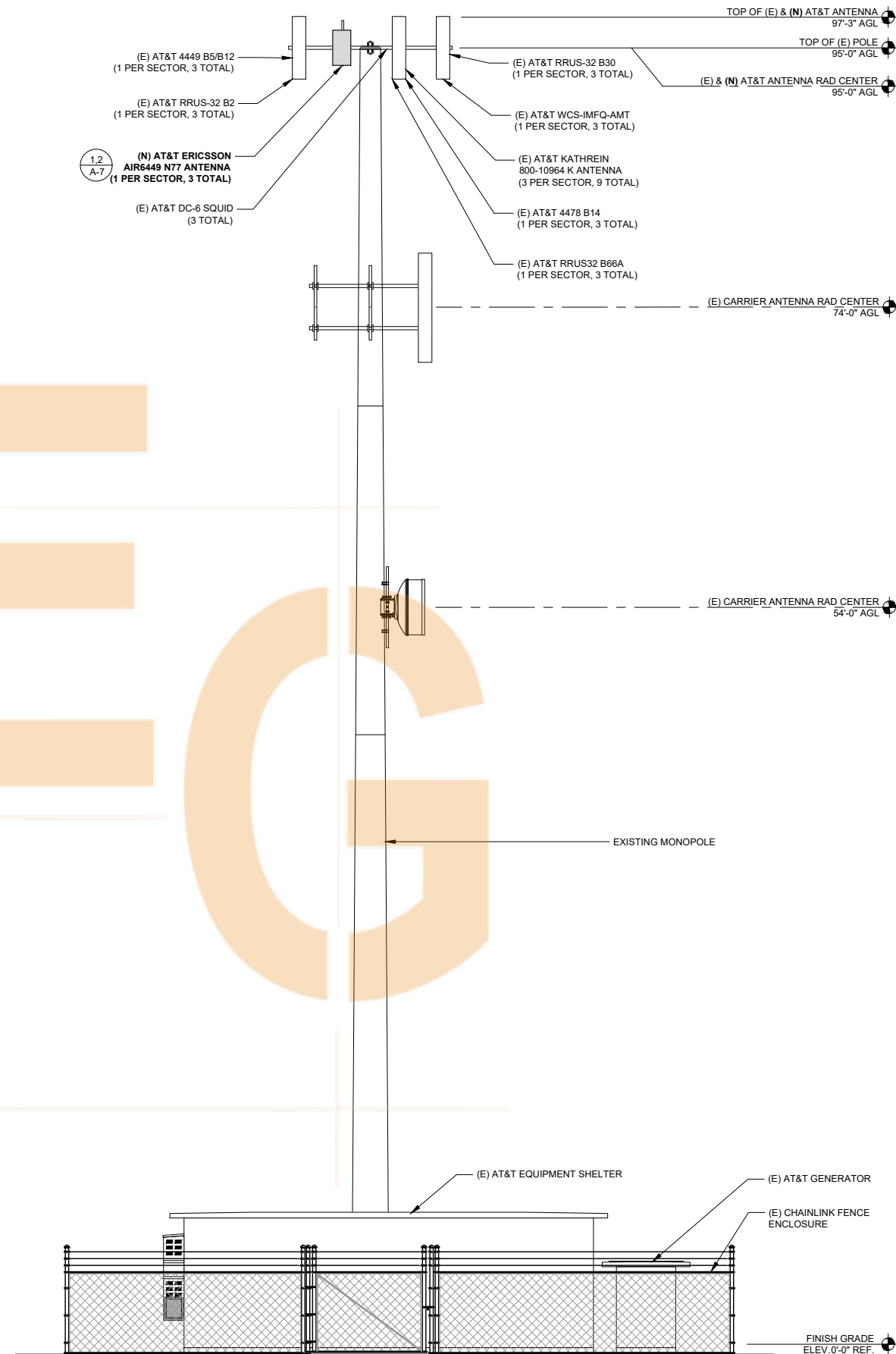
A-4



EXISTING EAST ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"

1



NEW EAST ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"

2



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SAN DIEGO, CA 92121



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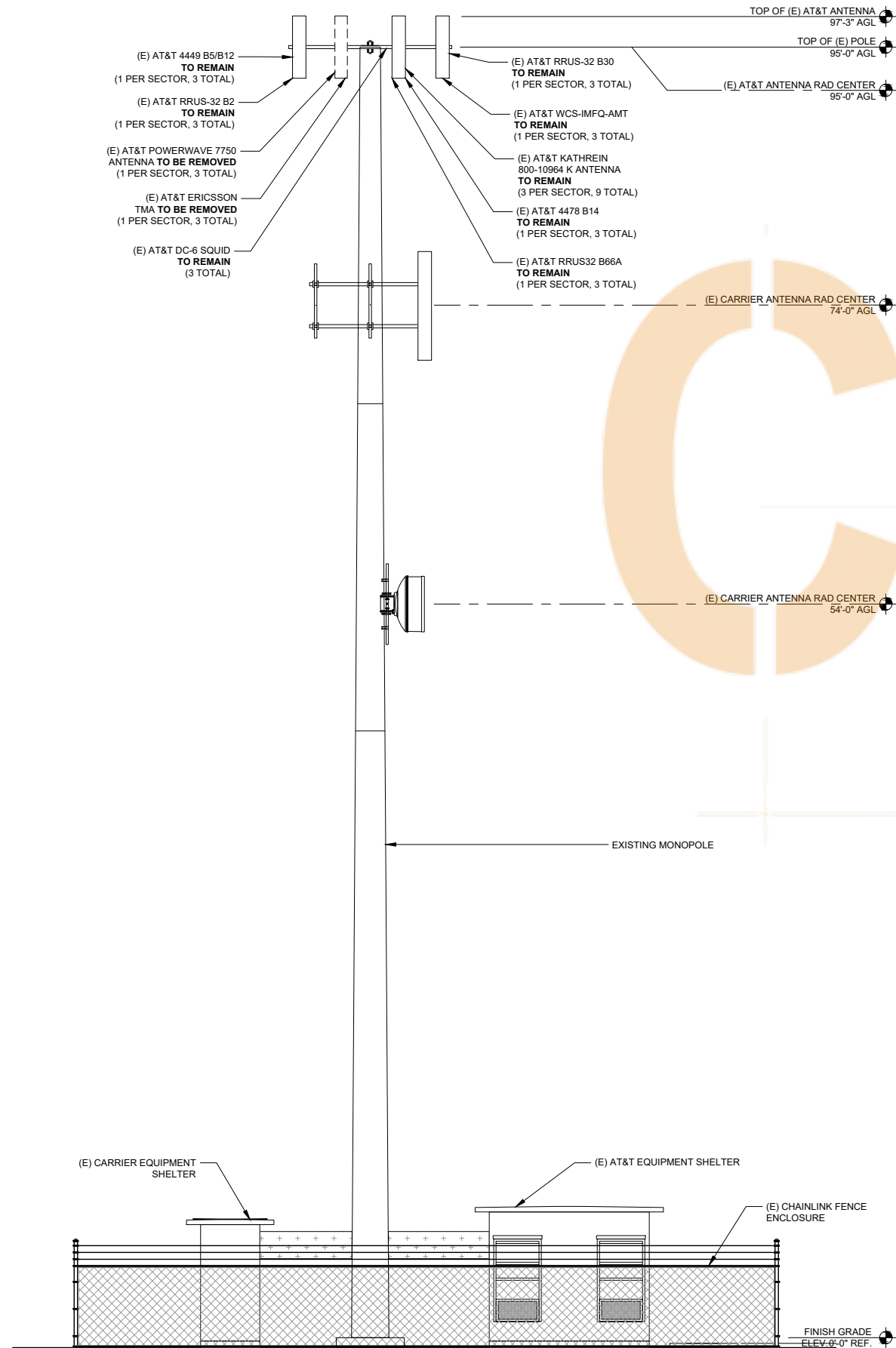
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SHEET TITLE
ELEVATIONS

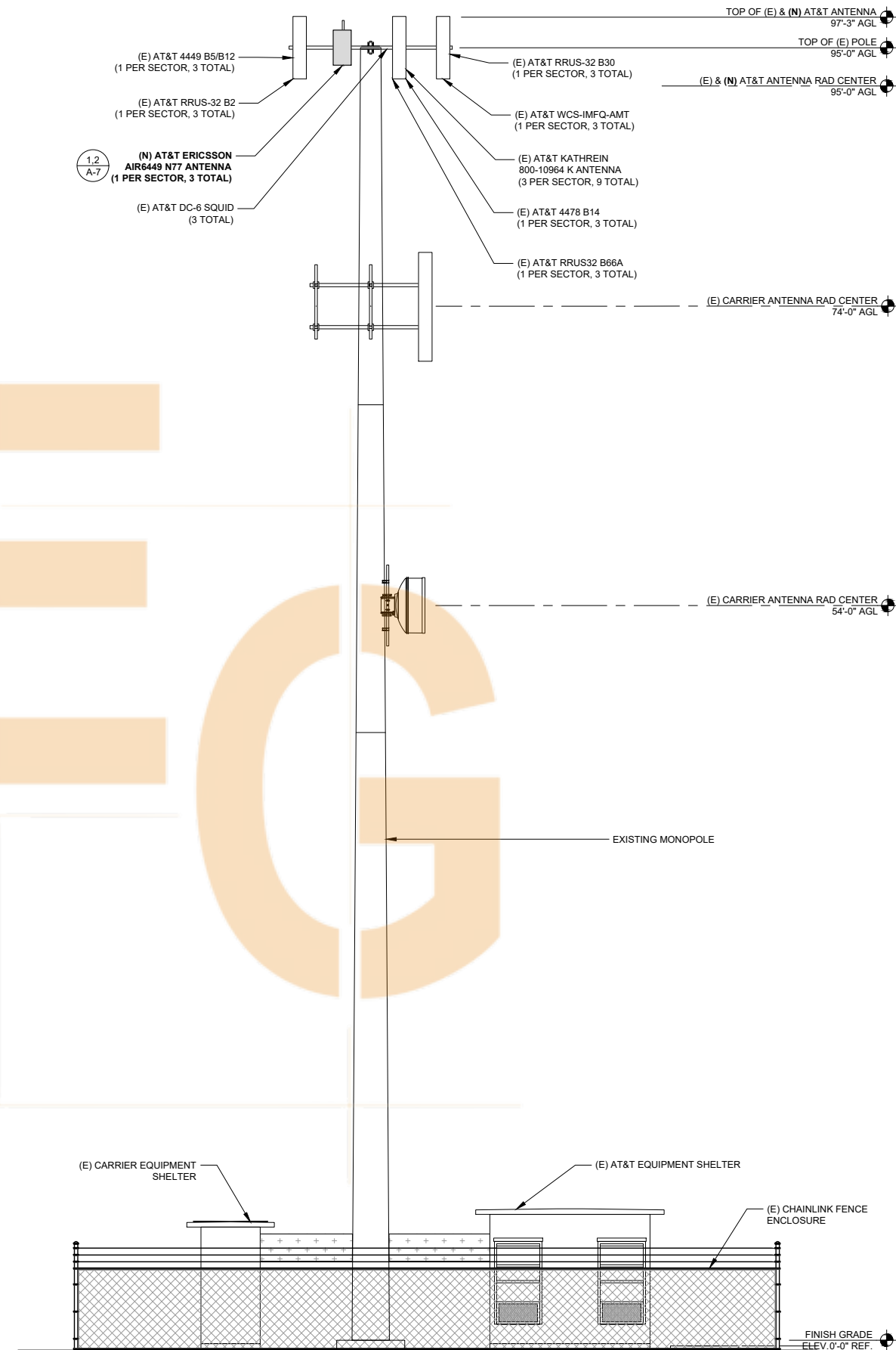
SHEET NUMBER
A-5



EXISTING SOUTHWEST ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"

1



NEW SOUTHWEST ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"

2



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3710 DEL MAR HEIGHTS ROAD
SAN DIEGO, CA 92649: 92130

SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-6

NOT USED

24"x36" SCALE: NTS
11"x17" SCALE: NTS

5

NOT USED

24"x36" SCALE: NTS
11"x17" SCALE: NTS

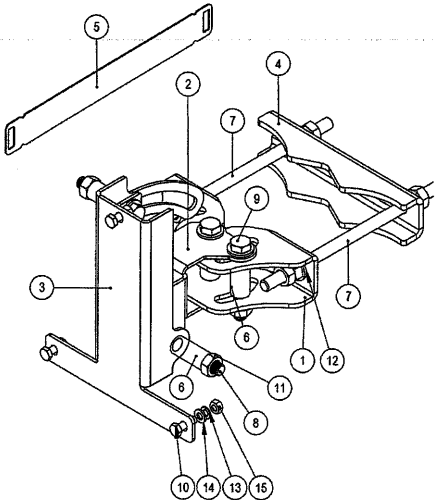
4

NOT USED

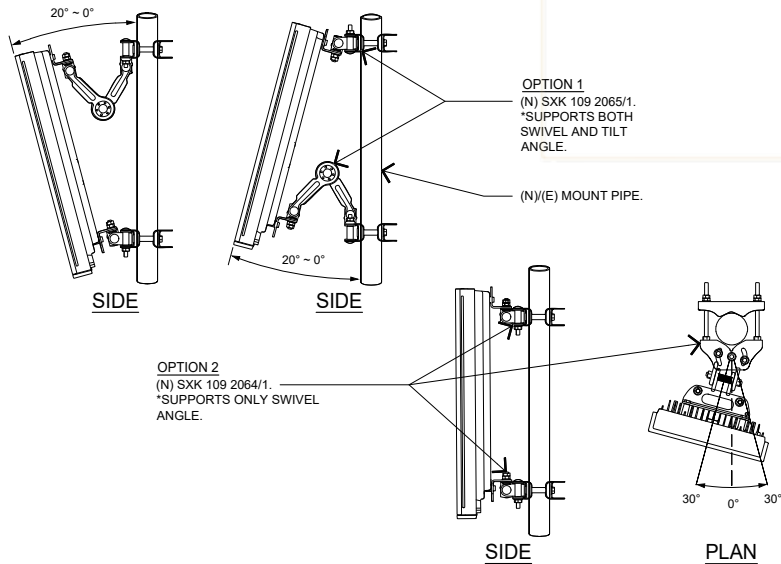
24"x36" SCALE: NTS
11"x17" SCALE: NTS

3

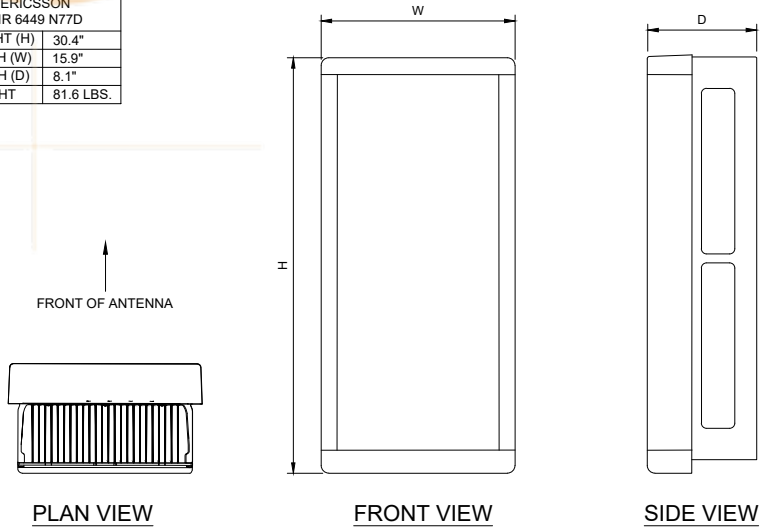
Package content SXX 109 2165/1 (MAFI 1241)



Pos	QTY.	Description
1	1	Clamp Azimuth
2	1	mRRU Azimuth part
3	1	mRRU tilt part
4	1	Clamp
5	1	Steel bandingplate
6	4	Spacer bushing
7	2	Threaded rod M10x200 mm FZV
8	2	Screw M10x60
9	2	Bolt M10x70
10	3	Bolt M6x20
11	14	Nut M10
12	10	Washer 10.5x22x2
13	3	Spring washer M6
14	3	Washer M6
15	3	Nut M6



ERICSSON AIR 6449 N77D	
HEIGHT (H)	30.4"
WIDTH (W)	15.9"
DEPTH (D)	8.1"
WEIGHT	81.6 LBS.



AIR ANTENNA MOUNTING

24"x36" SCALE: NTS
11"x17" SCALE: NTS

2

ERICSSON AIR6449 N77

24"x36" SCALE: NTS
11"x17" SCALE: NTS

1



7337 TRADE STREET
SAN DIEGO, CA 92121



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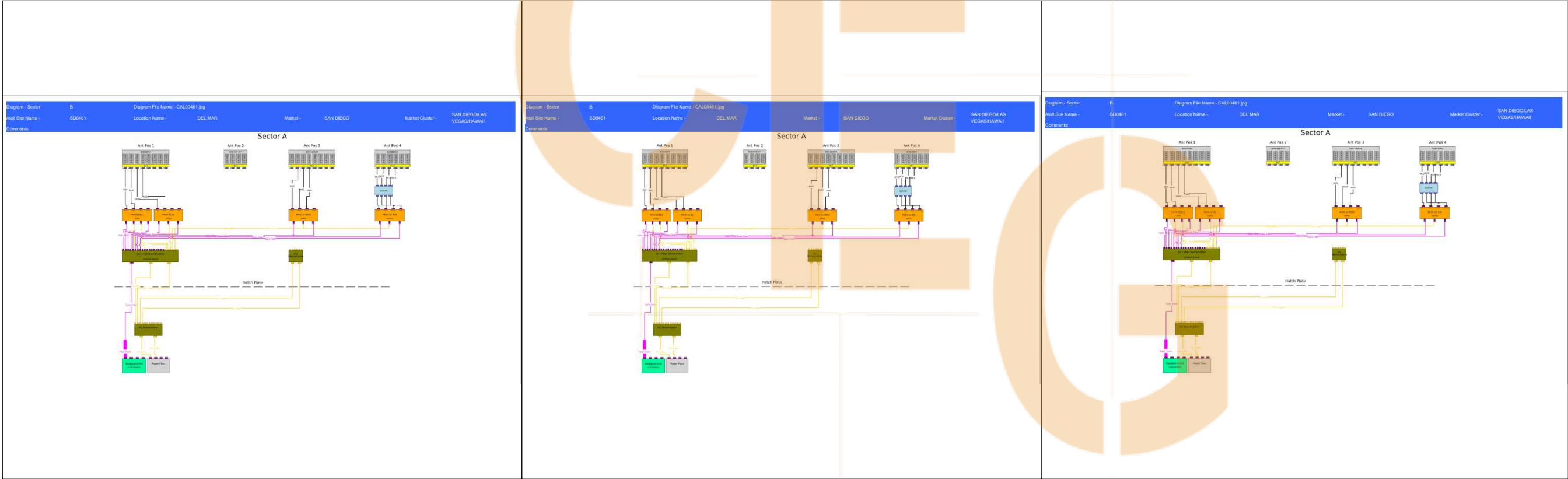
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DSA #:

AT&T
SD0461
BU# 814567
DEL MAR
3710 DEL MAR HEIGHTS ROAD
SAN DIEGO, CA 92649: 92130

SHEET TITLE
DETAILS

SHEET NUMBER
A-7





7337 TRADE STREET
SAN DIEGO, CA 92121



200 SPECTRUM CENTER DRIVE,
SUITE 1700 & 1800
IRVINE, CA 92618

DRAWN BY: SA
CHECKED BY: VB

REV	DATE	DESCRIPTION	BY
A	08/20/2021	90% CD'S FOR REVIEW	RDL

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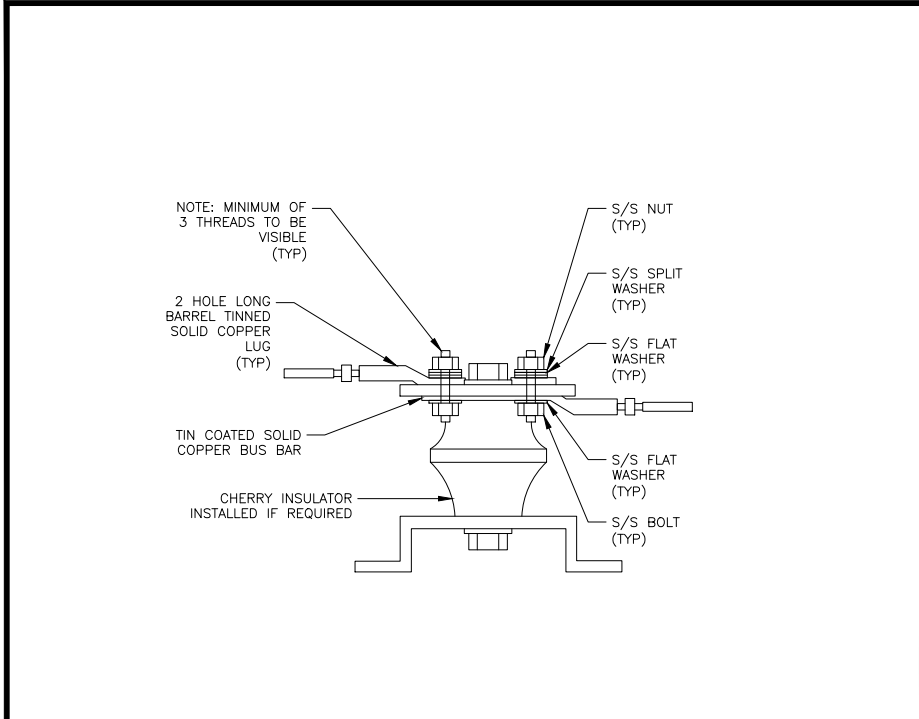
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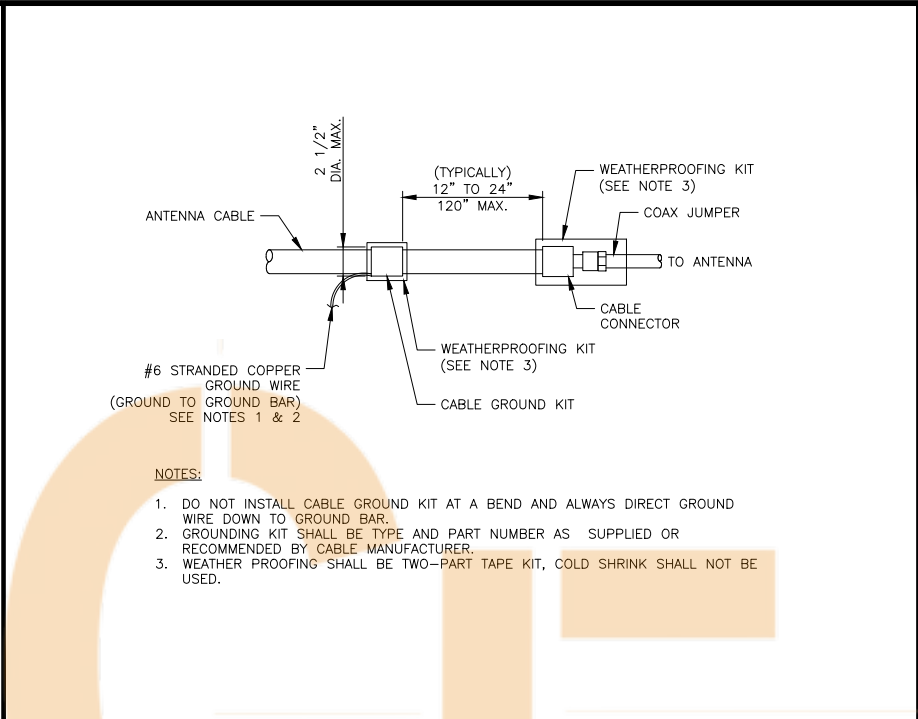
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SHEET TITLE
RF CABLING DIAGRAM

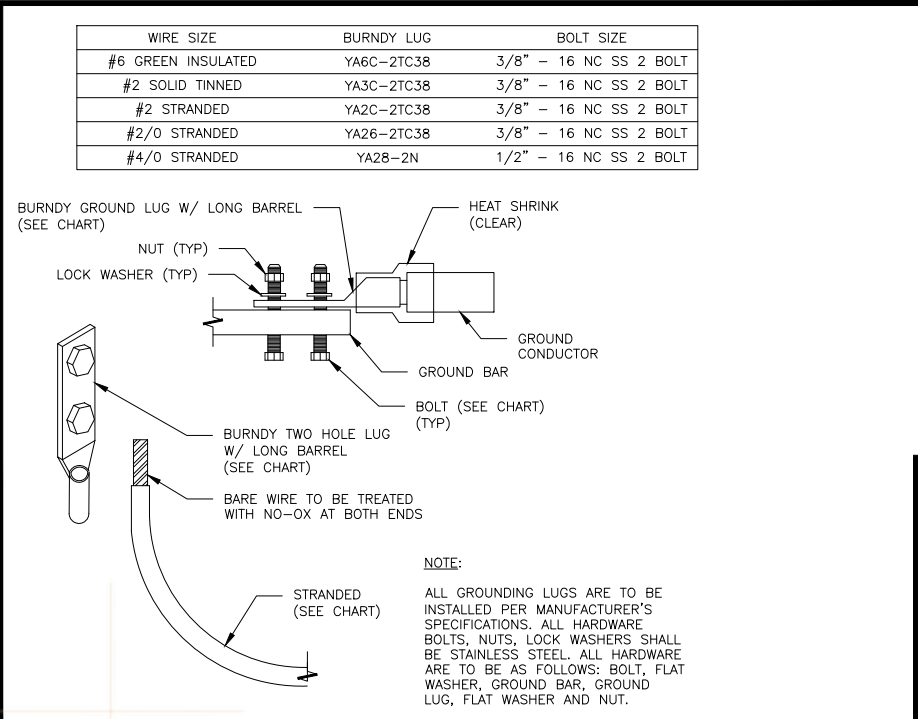
SHEET NUMBER
A-8



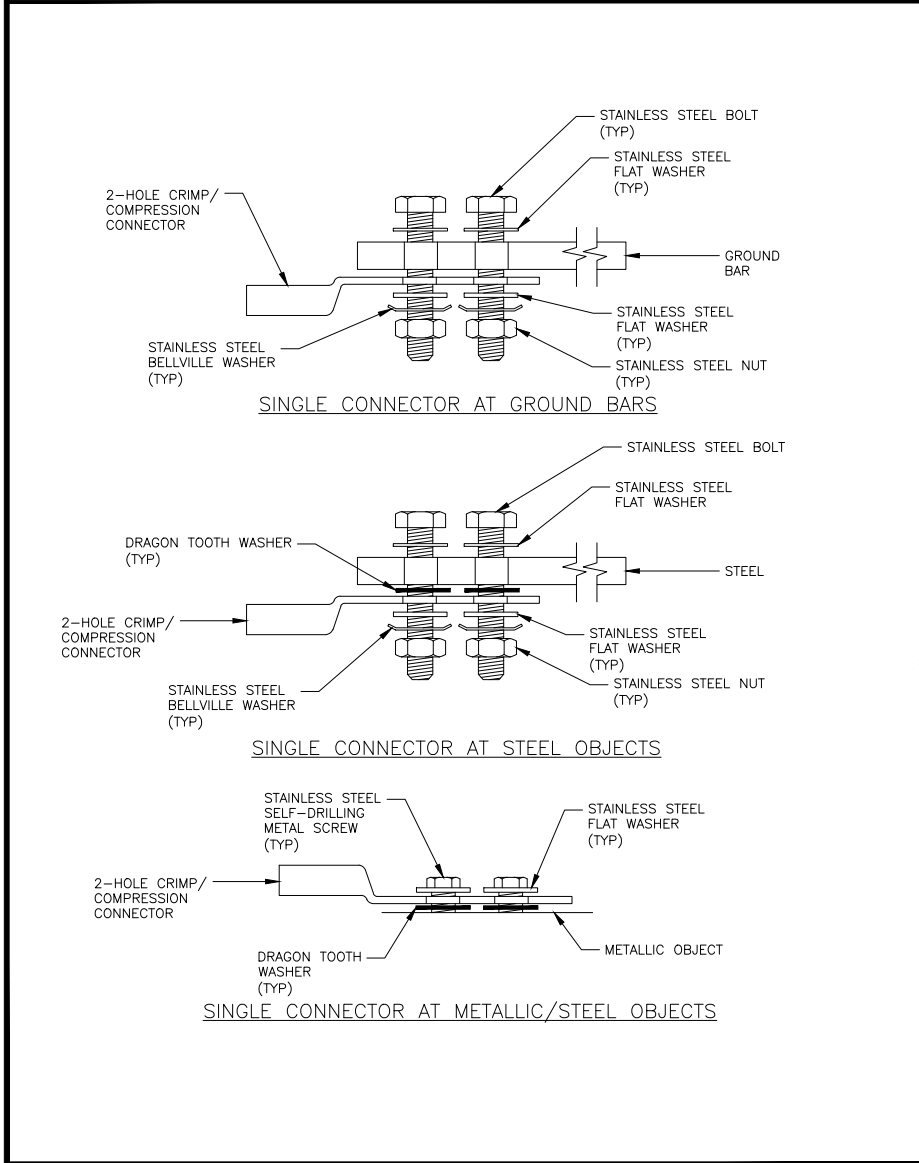
LUG DETAIL 24"x36" SCALE: NTS 11"x17" SCALE: NTS 8



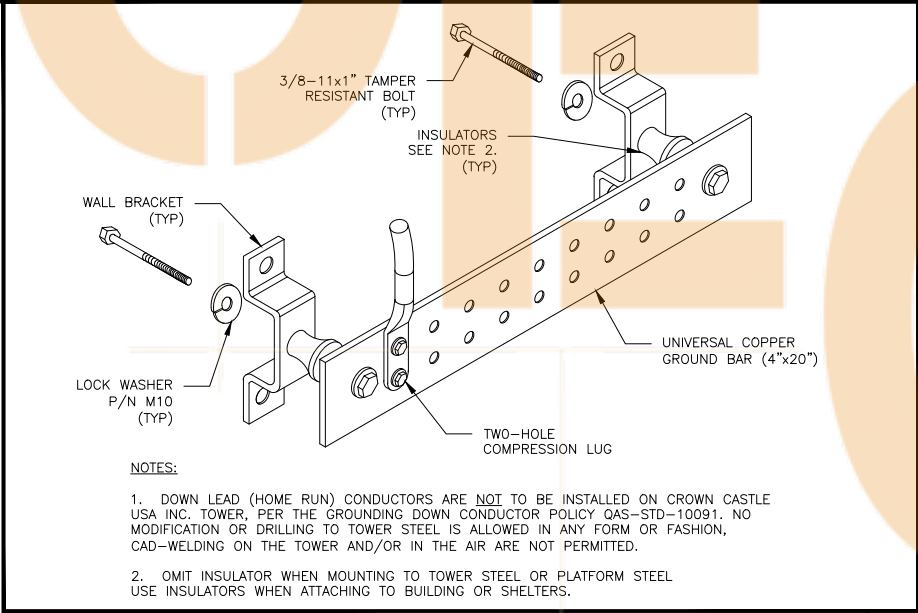
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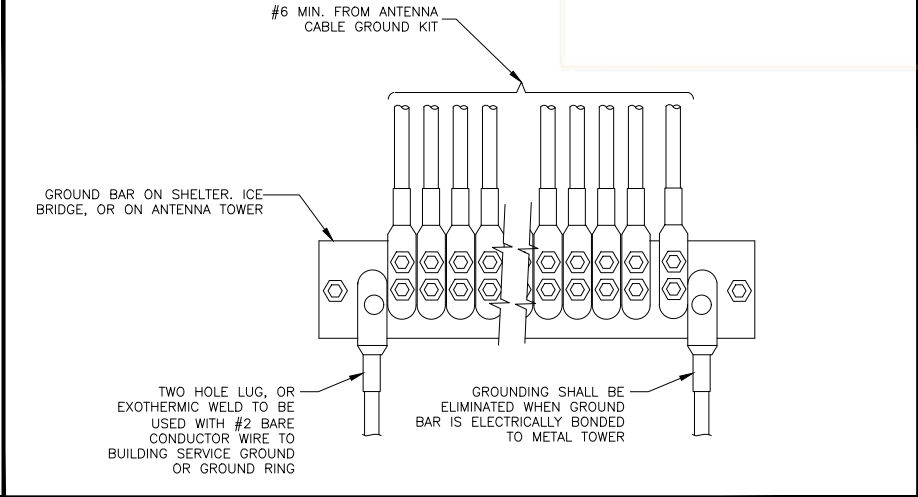
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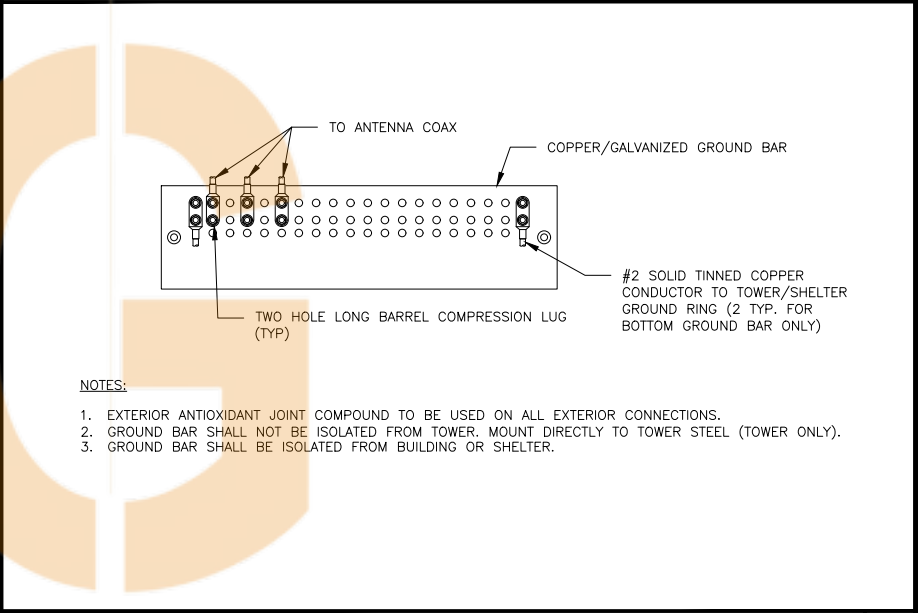
EXTERIOR CONNECTIONS DETAILS 24"x36" SCALE: NTS 11"x17" SCALE: NTS 7



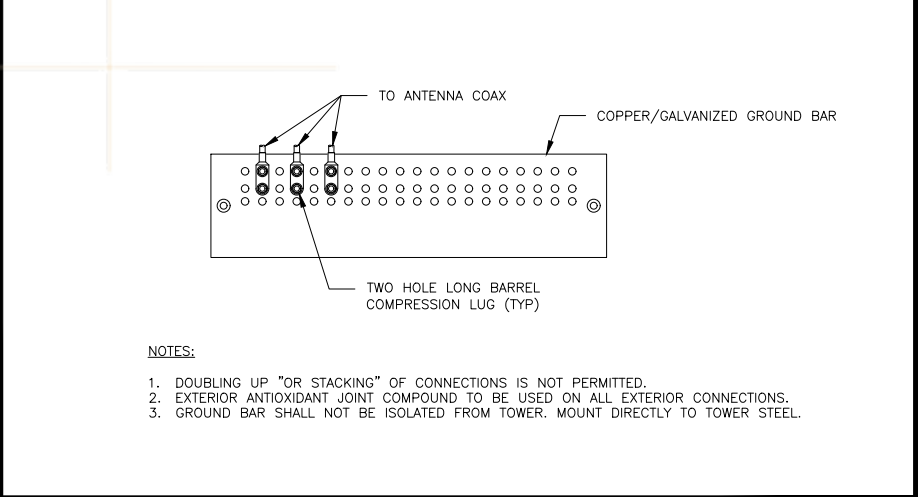
GROUND BAR DETAIL 24"x36" SCALE: NTS 11"x17" SCALE: NTS 5



GROUNDWIRE INSTALLATION 24"x36" SCALE: NTS 11"x17" SCALE: NTS 4



TOWER/SHELTER GROUND BAR DETAIL 24"x36" SCALE: NTS 11"x17" SCALE: NTS 2



ANTENNA GROUND BAR DETAIL 24"x36" SCALE: NTS 11"x17" SCALE: NTS 1



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SHEET TITLE
GROUNDING DETAILS

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A-9