



T-MOBILE SITE ID: PH30920A
 T-MOBILE SITE NAME: GRANITE REEF CHURCH

SITE ADDRESS: 4425 N. GRANITE REEF RD.
 SCOTTSDALE, AZ 85251
 COUNTY: MARICOPA
 JURISDICTION: CITY OF SCOTTSDALE

PROJECT ID: ANCHOR
 STRUCTURE TYPE: STEALTH MONUMENT STRUCTURE HEIGHT: 45 '-0"

CARRIER

1330 W. SOUTHERN AVE., SUITE A-102
 TEMPE, AZ. 85282

CLIENT

8502 E. VIA DE VENTURA
 SUITE 220
 SCOTTSDALE, AZ 85258
 TEL: (480) 878-4875
 FAX: (410) 263-5470

PLANS PREPARED BY

40 W BASELINE ROAD, SUITE 115
 TEMPE, AZ 85283

SEAL

SITE INFORMATION	
LATITUDE:	39.50100° N
LONGITUDE:	-111.90000°
LAT./LONG. TYPE:	NAD 83
GROUND ELEVATION:	1246.0' AMSL
APN #:	173-57-114D
AREA OF CONSTRUCTION:	EXISTING
ZONING/JURISDICTION:	CITY OF SCOTTSDALE
CURRENT ZONING:	R1-7
EXISTING USE: FACILITY	UNMANNED TELECOMMUNICATIONS
COUNTY:	MARICOPA COUNTY
HANDICAP REQUIREMENTS:	FACILITY IS UNMANNED AND NOT FOR FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED.

ISSUED FOR: 100% SUBMITTAL	
SHEET INDEX	
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C-1	SITE PLAN
C-2	EXISTING & NEW GROUND EQUIPMENT LAYOUT
C-3	EXISTING & NEW ANTENNA LAYOUT
C-4	EXISTING & NEW ELEVATIONS
D-1	DETAILS
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E-1	ELECTRICAL GENERAL NOTES
E-2	ONE-LINE / PANEL SCHEDULE
E-3	GROUNDING PLAN
E-4	GROUNDING DETAILS

PROJECT TEAM

APPLICANT/CLIENT
 T-MOBILE
 1330 W. SOUTHERN AVE, STE. A-102
 TEMPE, AZ 85282

T-MOBILE PROJECT MANAGER:
 CONTACT: KEVIN BRANTLEY
 PHONE: 602-570-0006
 KEVIN.BRANTLEY@T-MOBILE.COM

CONSTRUCTION MANAGEMENT:
 SMARTLINK, LLC
 8502 E. VIA DE VENTURA, SUITE 220
 SCOTTSDALE, AZ 85258
 CONTACT: SCOTT FARBER
 PHONE: (480) 280-3455
 SCOTT.FARBBER@SMARTLINKLLC.COM

ENGINEERING SERVICES:
 COM-EX CONSULTANTS
 40 WEST BASELINE ROAD, SUITE 115
 TEMPE, AZ 85283
 CONTACT: KEVIN BARLAY
 PHONE: (480) 245-5988

PROPERTY OWNER:
 SCOTTSDALE CONG. UNITED CHURCH CHRIST
 4425 N GRANITE REEF RD.
 SCOTTSDALE, AZ 85251

LOCATION MAP

FROM T-MOBILE OFFICE LOCATED AT: 1330 W. SOUTHERN AVE, TEMPE AZ 85282: DEPART 2625 S. PLAZA DR, TEMPE, AZ 85282 ON S. PLAZA DR (SOUTH), HEAD EAST ON W SOUTHERN AVE. TURN RIGHT ONTO S MILL AVE. MERGE ONTO US-60 E. TAKE EXIST 176B TO MERGE ONTO AZ-101 LOOP N. TAKE EXIT 47 FOR INDIAN SCHOOL RD. TURN LEFT ONTO E INDIAN SCHOOL RD. TURN RIGHT ONTO N GRANITE REEF RD. FOLLOW 0.4 MILES TO SITE ON RIGHT.

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

PROJECT SCOPE OF WORK:

TOWER WORK:

- INSTALL (3) ANTENNAS
- REMOVE (3) EXISTING ANTENNAS
- REMOVE (6) REMOTE RADIO UNITS (RRU'S)
- INSTALL (3) REMOTE RADIO UNITS (RRU'S)
- INSTALL (2) 15' HCS 2.0 TRUNK
- REMOVE (1) COMBINED OVER VOLTAGE PROTECTION UNIT (COVP)

GROUND WORK:

- INSTALL (2) 15' HCS 2.0 TRUNK
- REMOVE (1) COMBINED OVER VOLTAGE PROTECTION UNIT (COVP)
- INSTALL HCS2.0 J-BOX
- SWAP EXISTING SSC WITH PURCELL HPL3 600A DC PLANT
- SWAP ALL EXISTING & AUXILIARY TO HPL3 AND BATTERY CAB

REFERENCE DOCUMENTS

DESIGN PACKAGE BASED ON THE RFDS, REVISION: (2) DATED 06/10/2020

APPLICABLE CODES

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:

CODE TYPE	CODE
BUILDING	2018 IBC
MECHANICAL	2018 IMC
ELECTRICAL	2017 NEC

ALL APPLICABLE LOCAL AMENDMENTS

APPROVALS

APPROVAL	SIGNATURE	DATE
T-MOBILE MANAGER:	_____	_____
CONSULTING PROJ. MGR:	_____	_____
PROPERTY OWNER:	_____	_____
REAL ESTATE:	_____	_____

NO. DATE DESCRIPTION

A	07/16/20	ISSUE FOR REVIEW
B	07/23/20	CLIENT COMMENTS
O	09/02/20	SUBMITTAL

PROJECT INFORMATION

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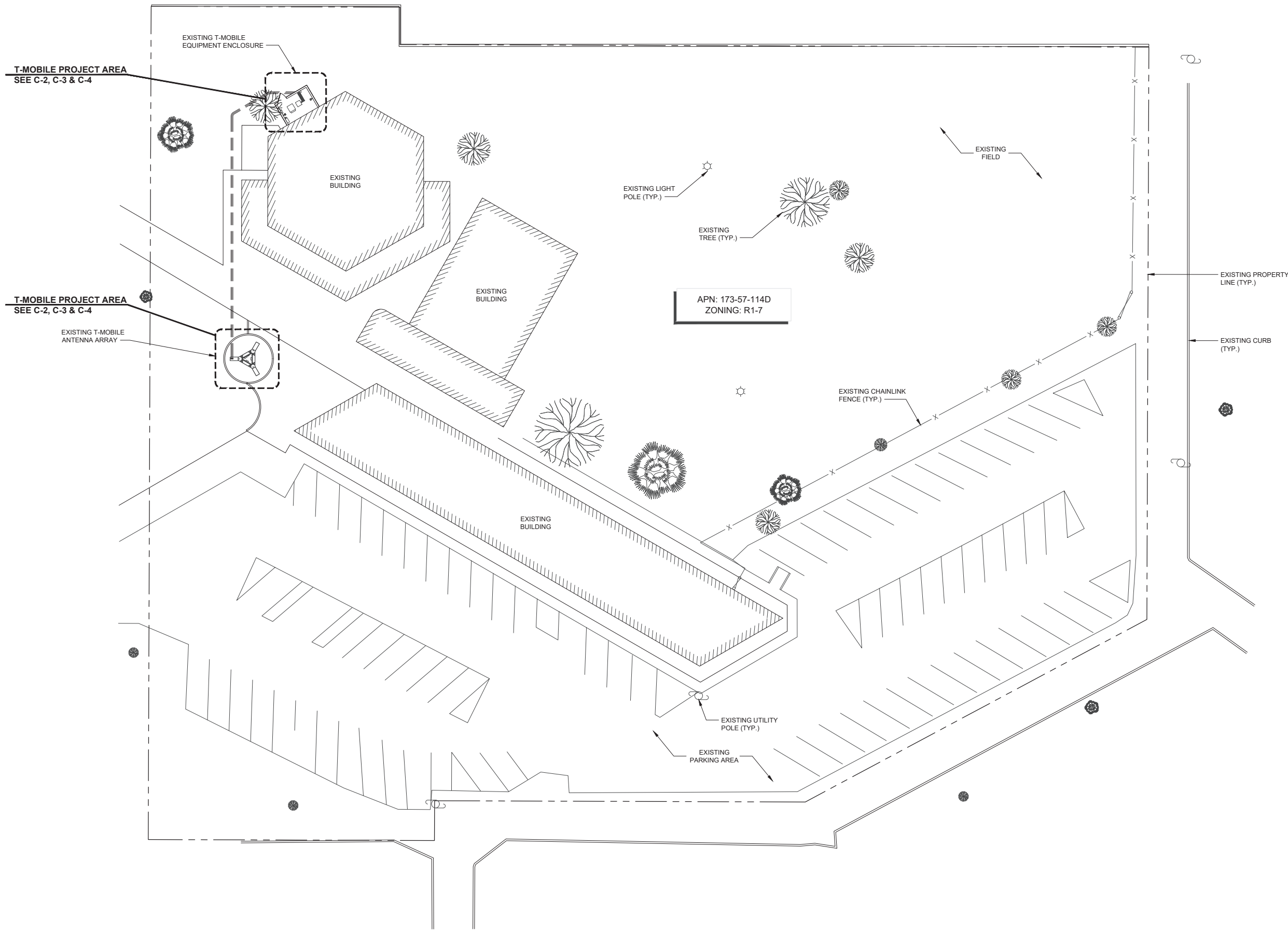
SHEET TITLE

TITLE SHEET

JURISDICTION APPROVAL

SHEET NUMBER

T-1



CARRIER

T-Mobile
 1330 W. SOUTHERN AVE., SUITE A-102
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CLIENT

smartlink

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COM-EX Consultants

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SEAL

Registered Professional Engineer (Civil)
 CERTIFICATE NO. 51689
 SAMUEL EDUARDO GONZALEZ
 9/2/20
 Date Signed
 ARIZONA, U.S.A.
Samuel E. Gonzalez
 EXPIRES: 12/31/2021

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SHEET TITLE

SITE PLAN

JURISDICTION APPROVAL

SHEET NUMBER

C-1

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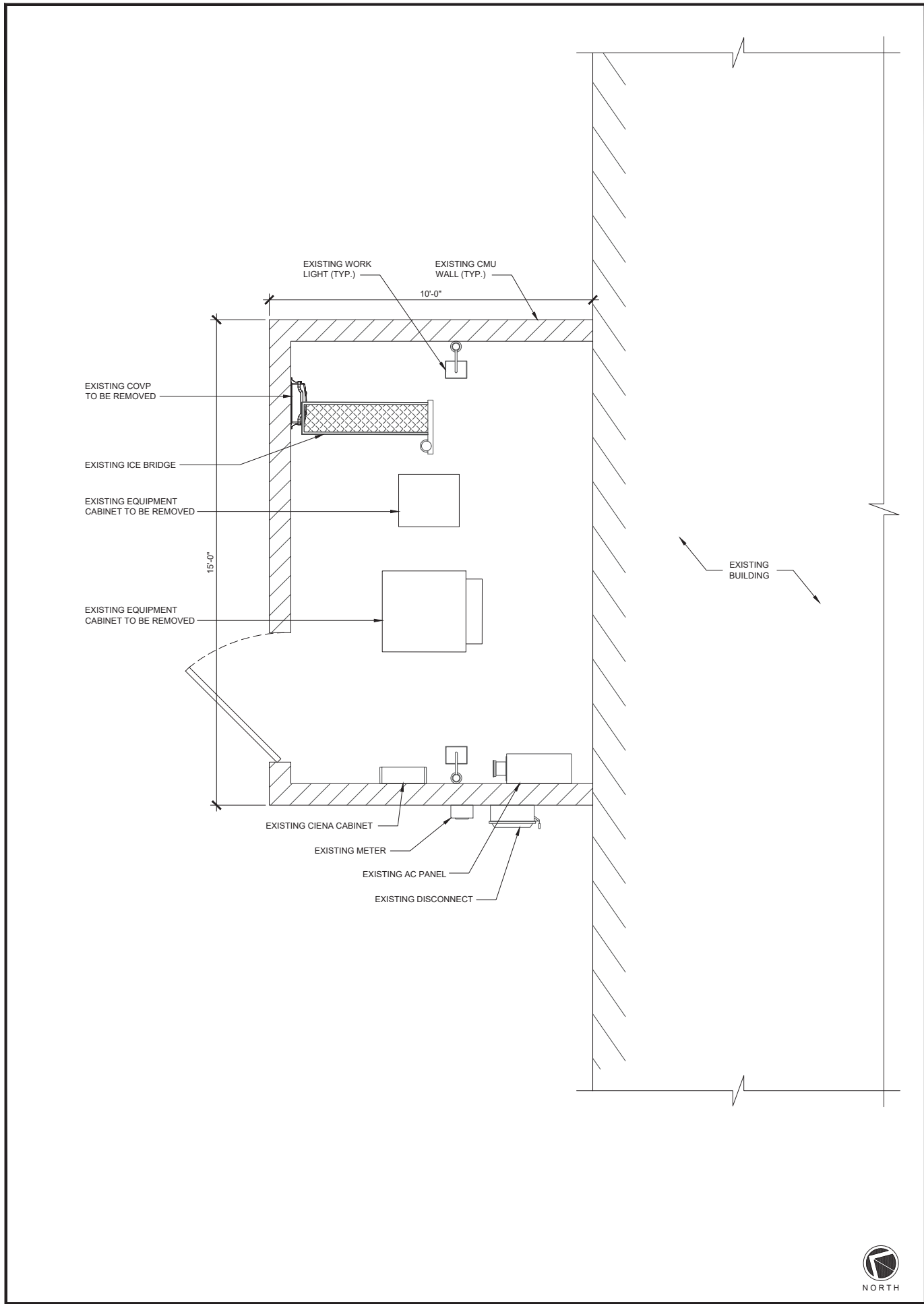
SHEET TITLE

GROUND EQUIPMENT LAYOUT

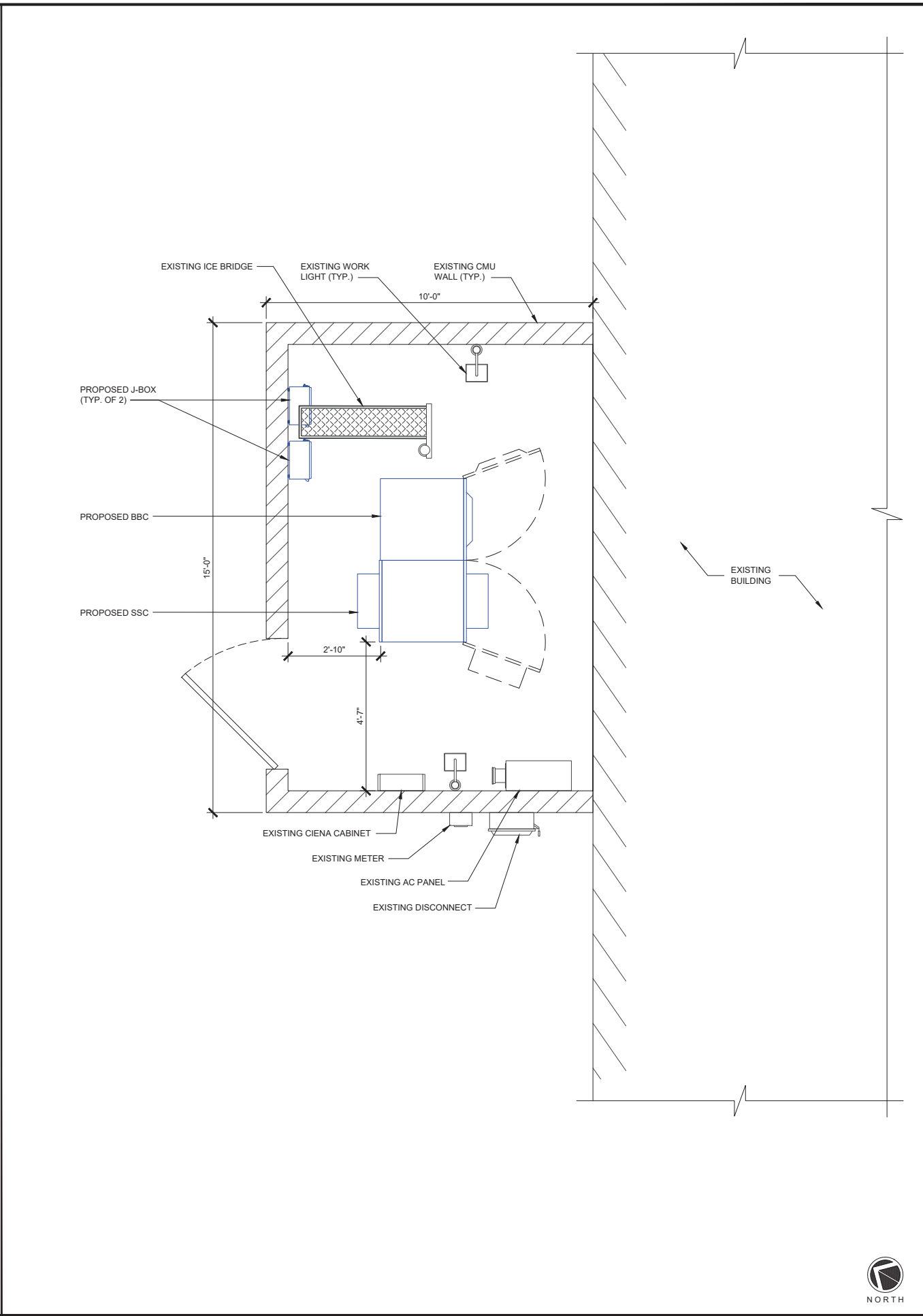
JURISDICTION APPROVAL

SHEET NUMBER

C-2



EXISTING GROUND EQUIPMENT LAYOUT




NEW GROUND EQUIPMENT LAYOUT

- NOTES:**
- CONTRACTOR TO REFERENCE T-MOBILE ISSUED RFDS AND GIVE PRECEDENCE TO INFORMATION PROVIDED IN RFDS OVER INFORMATION PROVIDED IN THIS TABLE
 - VERIFY LOADING WITH PASSING STRUCTURAL ANALYSIS PRIOR TO CONSTRUCTION
 - IF STRUCTURAL ANALYSIS AND RFDS DO NOT MATCH, CONTRACTOR IS TO CONTACT T-MOBILE IMMEDIATELY

SECTOR	POSITION (VIEW FROM REAR)	ANTENNA				RADIO			DIPLEXER			TMA		SURGE PROTECTION		CABLES			
		TECH	STATUS	AZIMUTH	C.L. (A.G.L.)	QTY.	STATUS/ MODEL	LOCATION	QTY.	STATUS	LOCATION	QTY.	STATUS	QTY.	STATUS	QTY.	STATUS/ TYPE	SIZE	LENGTH
ALPHA	1	L2500/N2500	(N)	90°	42'	1	-	-	-	-	-	-	-	1	(N)	1	(N)	1-1/2"	225'
ALPHA	2	U1900/L2100/L1900/ G1900/LAWS3	(E)	90°	42'	1	(N)	TOWER	-	-	-	-	-	-	-	1	-	-	-
BETA	1	L2500/N2500	(N)	210°	42'	1	-	-	-	-	-	-	-	-	-	1	(N)	1-1/2"	225'
BETA	2	U1900/L2100/L1900/ G1900/LAWS3	(E)	210°	42'	1	(N)	TOWER	-	-	-	-	-	-	-	1	-	-	-
GAMMA	1	L2500/N2500	(N)	330°	42'	1	-	-	-	-	-	-	-	-	-	1	(N)	1-1/2"	225'
GAMMA	2	U1900/L2100/L1900/ G1900/LAWS3	(E)	330°	42'	1	(N)	TOWER	-	-	-	-	-	-	-	1	-	-	-

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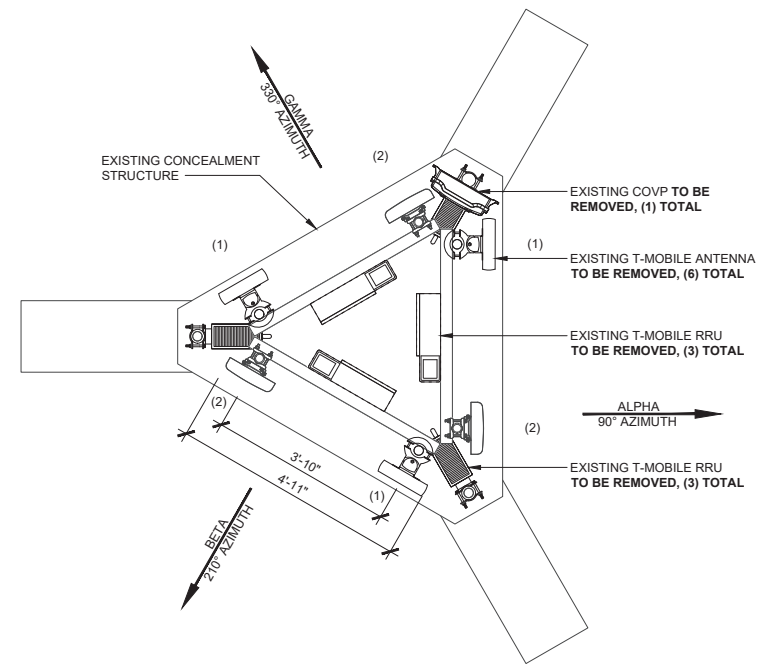
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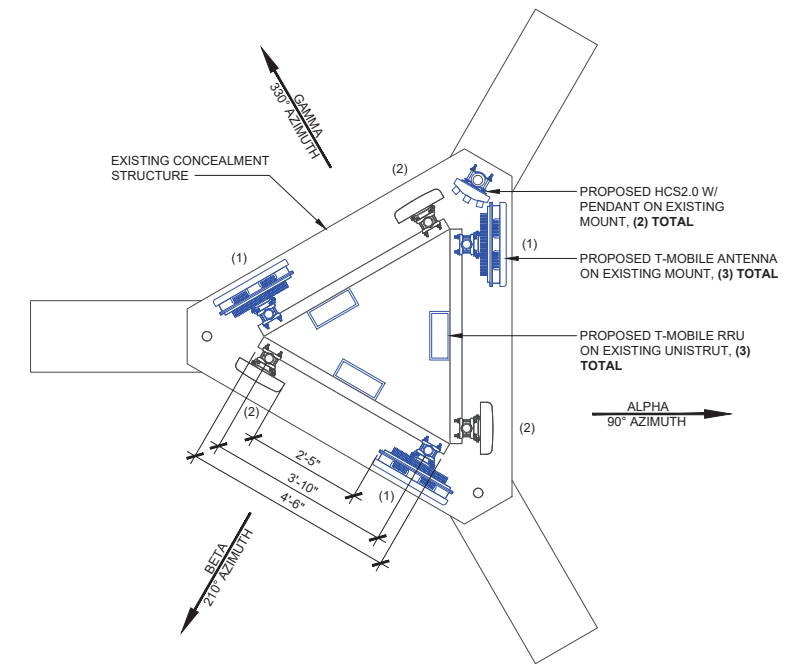


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FINAL ANTENNA SCHEDULE




NOTE:
DIMENSIONS ARE SAME FOR ALL SECTORS



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SHEET TITLE

ANTENNA LAYOUT

JURISDICTION APPROVAL

SHEET NUMBER

C-3

EXISTING EQUIPMENT LAYOUT

22"x34" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"



2' 1' 0" 2'

1 NEW ANTENNA LAYOUT

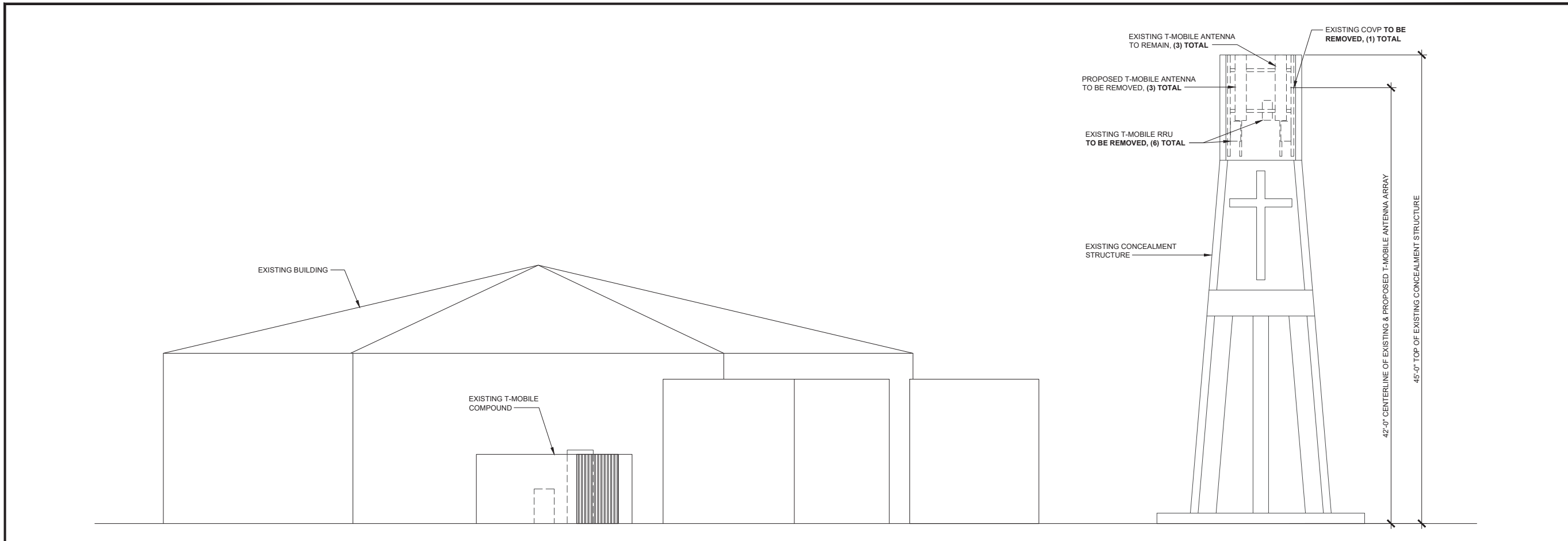
22"x34" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"



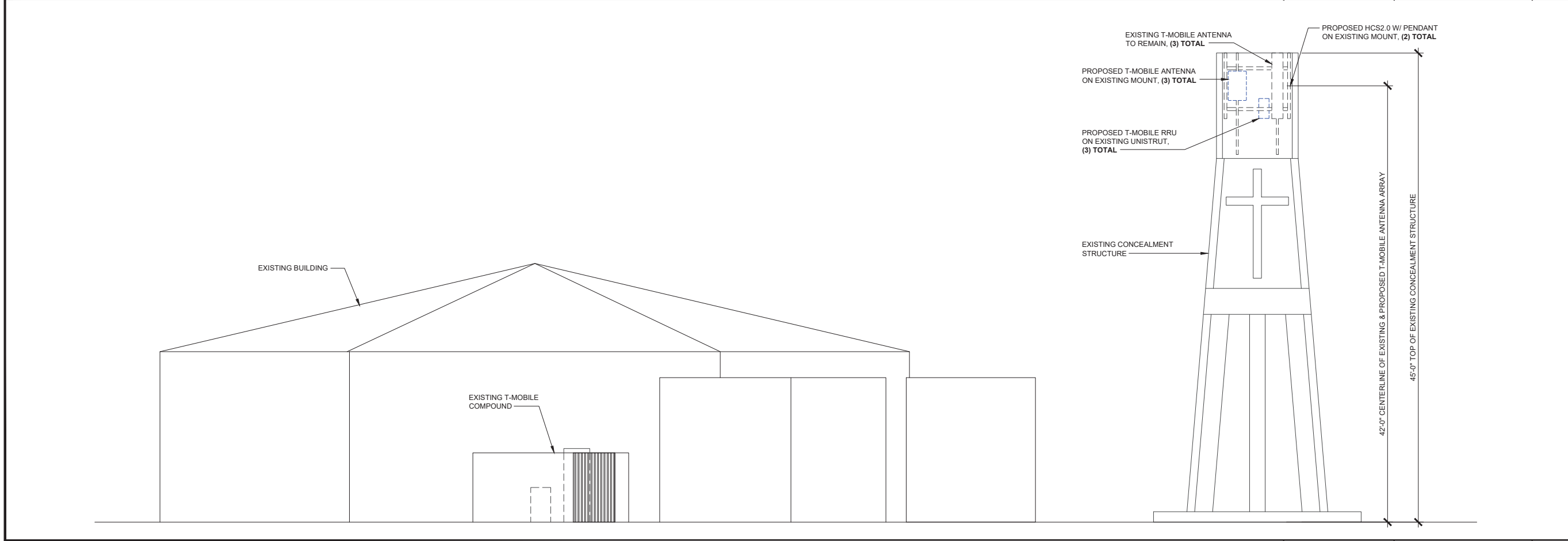
2' 1' 0" 2'

2

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EXISTING ELEVATION 22"x34" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0" 1



NEW ELEVATION 22"x34" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0" 2

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SHEET TITLE

ELEVATIONS

JURISDICTION APPROVAL

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C-4

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