

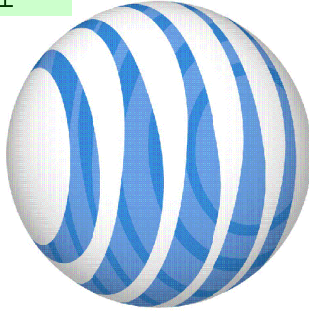
CONSTRUCTION DRAWING

☐ LTE 1C ☒ LTE 5C FN

☐ LTE 2C ☒ LTE 6C FN

☐ LTE 3C ☐ 4TXRX

☐ LTE 4C



Add correct address on each page - 15640 Highway 94 per enumerations comment

at&t

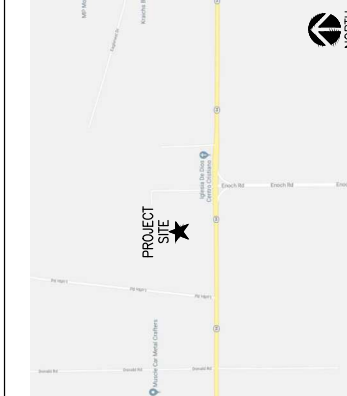
DRIVING DIRECTIONS

- FROM: INVERNESS DRIVE WEST  
ENGLEWOOD, CO 80122
1. DEPART SOUTHEAST ON INVERNESS DR W
  2. TURN LEFT ONTO S JAMICA ST
  3. TAKE RAMP LEFT AND FOLLOW SIGNS FOR E-470/TOLLWAY/NORTH
  4. ROAD RESTRICTED AT YOUR PLANNED TRAVEL TIME
  5. AT EXIT 5 TAKE RAMP RIGHT AND FOLLOW SIGNS FOR CO-83 SOUTH
  6. PASS CONDO/77-ELEVATOR
  7. TURN LEFT ONTO CO-86 / E HIGHWAY 86
  8. TURN LEFT ONTO CO-86 / E HIGHWAY 86
  9. PASS SHELL ON THE LEFT IN 8.4 MI
  10. TURN RIGHT ONTO COUNTY ROAD 17
  11. KEEP STRAIGHT ONTO COUNTY ROAD 17-21
  12. ROAD NAME CHANGES TO COUNTY ROAD 21
  13. ROAD LEFT ONTO COUNTY ROAD 106
  14. TURN LEFT ONTO N ELBERT RD
  15. ROAD NAME CHANGES TO CO-217 / ELBERT RD
  16. TURN RIGHT ONTO US-24 / E US HIGHWAY 24
  17. TURN LEFT ONTO STAPLETON DR
  18. TURN LEFT ONTO CO-94
  19. ARRIVE AT 15642 HIGHWAY 94

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE AND SHALL NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.

VICINITY MAP



AT&T SITE NAME  
SCHREIVER AFB  
AT&T SITE NUMBER

COL02065

AT&T PACE ID

MRUTH035610

MRUTH035586

AT&T FA NUMBER

10099187

SITE ADDRESS

15642 HIGHWAY 94

COLORADO SPRINGS, CO 80930

STRUCTURE TYPE

MONOPOLE

PROJECT DESCRIPTION

- AT&T PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATION FACILITY BASED ON RFDS 3130541 REV 2.00:
- REMOVE & REPLACE (6) PANEL ANTENNAS
  - REMOVE AND REPLACE (3) RRHS
  - INSTALL (3) NEW RRHS
  - INSTALL (1) NEW RRH COLLAR MOUNT
  - INSTALL (1) NEW NOKIA 590R (ASIK C-1) F5M4 BBV [REQ.20975]
  - INSTALL (4) EA. NEW RECIPIERS [NEQ.15930] FOR REVISED TOTAL OF (13) TO SATISFY N-1.
  - REMOVE (1) 9412 elohide CABINET
  - INSTALL (1) EA. NEW -49VDC PURCELL FL21-2520 CABINET [CCQ.18306] & TRANSFER ALL COMPONENTS FROM 9412 CABINET.
  - REMOVE (24) EXISTING GNB M12V155FT BATTERIES FROM SITE
  - INSTALL (24) NEW GNB 512V107 BATTERIES FOR 6 STRINGS OF 170AH FOR A TOTAL OF 4.13 HOURS
  - INSTALL (2) 50A BREAKERS FOR F5M4, (3) 50A BREAKERS FOR THE ALUBA & (3) 25A BREAKERS FOR THE ANCA
  - INSTALL (1) VERIVIT POWER REGULATOR

SITE PHOTO



PROJECT TEAM

**md7** **INFINIGY** **ENGINEERING, PLLC**  
2500 W. HIGGINS RD., SUITE 500  
HOFFMAN ESTATES, IL 60169  
OFFICE # (847) 648-4068

**PROJECT MANAGER** **ENGINEER**

PROJECT NOTES

- NOTES:
- HANDICAP ACCESS REQUIREMENTS ARE NOT REQUIRED.
  - FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.
  - THIS FACILITY SHALL MEET OR EXCEED ALL FAA AND FCC REGULATORY REQUIREMENTS.
- MOUNT ANALYSIS BY:  
VENDOR: INFINIGY  
DATE: 11-06-2019
- STRUCTURAL ANALYSIS BY:  
VENDOR: SSA  
DATE: 02-27-2020
- 811**  
Know what's below.  
Call before you dig.  
www.call811.com

PROJECT SUMMARY

AT&T SITE NAME: SCHREIVER AFB  
AT&T SITE #: COL02065  
AT&T FA SITE #: 10099187  
RFDS ID: 3130541, REV 2.00  
SITE ADDRESS: 15642 HIGHWAY 94  
COLORADO SPRINGS, CO 80930  
COUNTY: EL PASO  
LATITUDE: 38° 50' 21.4" N (NAD 83)  
LONGITUDE: 104° 32' 13.6" W (NAD 83)  
PROJECT MANAGER: MD7  
10590 W OCEAN AIR DR., STE. 300  
SAN DIEGO, CA 92130  
CONTACT: HALEE PERUCCI  
(658) 799-7886  
APPLICANT: AT&T MOBILITY  
188 INVERNESS DRIVE WEST  
ENGLEWOOD, CO 80112  
ENGINEER: INFINIGY ENGINEERING, PLLC  
2500 W. HIGGINS RD., SUITE 500  
HOFFMAN ESTATES, IL 60169  
CONTACT: NANCY HERNANDEZ  
(847) 648-4068  
SITE ACQUISITION  
CONTACT: RAYMOND TAYLOR  
(720) 220-8854  
CONSTRUCTION  
MANAGER: DEREK BINK  
(775) 750-5818  
BUILDING CODE: 1. INTERNATIONAL BUILDING CODE (2018 IBC)  
2. TIA-EIA-222-G OR LATEST EDITION  
3. 2017 NFPA 780 - LIGHTNING PROTECTION CODE  
4. ANY OTHER NATIONAL OR LOCAL APPLICABLE CODES, MOST RECENT EDITIONS  
5. COUNTY ORDINANCES  
6. LOCAL BUILDING CODE  
7. CITY/COUNTY ORDINANCES  
ELECTRIC CODE: 2017 NATIONAL ELECTRIC CODE OR LATEST EDITION

SHEET INDEX

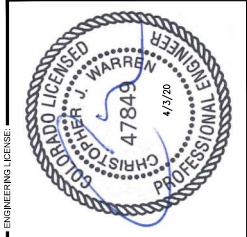
NO.	DESCRIPTION
T-1	TITLE SHEET
GN-1	GENERAL NOTES
GN-2	GENERAL NOTES
P-1	PARCEL PLAN
C-1	SITE PLAN
C-1.1	ENLARGED SITE PLAN
C-2	EXISTING EQUIPMENT LAYOUT
C-2.1	PROPOSED EQUIPMENT LAYOUT
C-2.2	EQUIPMENT PHOTOS
C-3	NORTH ELEVATION
C-4	SOUTH ELEVATION
C-5	WEST ELEVATION
C-6	ANTENNA LAYOUTS & LOADING CHART
D-1	EQUIPMENT DETAILS
D-2	EQUIPMENT DETAILS
E-1	DC SCHEMATIC DIAGRAM
G-1	GROUNDING SCHEMATIC DIAGRAM
G-2	GROUNDING DETAILS
RF-1	PLUMBING DIAGRAM



**INFINIGY** **ENGINEERING, PLLC**  
2500 W. HIGGINS RD., SUITE 500  
HOFFMAN ESTATES, IL 60169  
OFFICE # (847) 648-4068

**PROJECT MANAGER**  
JOS NUNEZ: 671-63

**md7**  
10590 W OCEAN AIR DRIVE, SUITE 300  
SAN DIEGO, CA 92130  
ENGINEERING LICENSE



DRAWING NOTICE  
THESE DOCUMENTS ARE CONFIDENTIAL AND NOT BE LOANED, REPRODUCED, COPIED, REDISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF AT&T.

REVISIONS	DESCRIPTION	DATE	BY	REV
ISSUED FOR CONSTRUCTION		04/03/20	CDP	0
REVISED/ISSUED FOR REVIEW		11/27/19	CDP	1
REVISED/ISSUED FOR REVIEW		11/27/19	CDP	2
REVISED/ISSUED FOR REVIEW		11/27/19	CDP	3
ISSUED FOR REVIEW		10/29/19	CDP	A

AT&T SITE NAME:  
**SCHREIVER AFB**

AT&T FA NUMBER:  
**COL02065**

AT&T FA NUMBER:  
**10099187**

SITE ADDRESS:  
**15642 HIGHWAY 94  
COLORADO SPRINGS, CO 80930**

SHEET DESCRIPTION:  
**TITLE SHEET**

SHEET NUMBER:  
**T-1**

Add PCD File #

GENERAL CONSTRUCTION NOTES.

1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
- OWNER - AT&T - CONTRACTOR (CONSTRUCTION)
2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS
3. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS, GENERAL CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A GUIDE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, INCLUDING BUT NOT LIMITED TO, CITY, COUNTY, AND STATE PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS REQUIRED TO SUE AND DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH WORK.
4. SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
5. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATE EQUIPMENT TO THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK UNDER THIS CONTRACT.
6. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL PERSONS AND PROPERTY DURING THE CONSTRUCTION OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, INCLUDING BUT NOT LIMITED TO, CITY, COUNTY, AND STATE PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS REQUIRED TO SUE AND DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH WORK.
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22. SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

ELECTRICAL NOTES.

1. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER AS SOON AS POSSIBLE. CONTRACTOR SHALL NOT PROCEED WITH THE WORK UNTIL THE CONSTRUCTION MANAGER HAS PROVIDED THE CORRECTIVE ACTIONS TO BE TAKEN.
2. CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL EXISTING CONDITIONS OF ELECTRICAL EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE SUBMITTING OF HIS BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR FROM THE OBLIGATION OF PROVIDING A COMPLETE AND WORKING SYSTEM.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE CITY AND COUNTY OF COLORADO. CONTRACTOR SHALL HAVE JURISDICTION AND SHALL INCLUDE BUT NOT BE LIMITED TO:
- A. UL - UNDERWRITERS LABORATORIES
  - B. NFPA - NATIONAL FIRE PROTECTION ASSOCIATION
  - C. NATIONAL FIRE CODES
  - D. NFPA - NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
  - E. NSB - STANDARD BUILDING CODE

4. DO NOT SCALE ELECTRICAL DRAWINGS. REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFIRM WITH CONSTRUCTION MANAGER ANY SIZES AND LOCATIONS WHEN NEEDED.
5. EXISTING SERVICES CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING SERVICES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING SERVICES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING SERVICES.
6. CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS, AND TESTING. CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING EQUIPMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING SERVICES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING SERVICES.
7. SPECIFICATIONS INDICATES THAT THE CONTRACTOR SHALL FINISH AND INSTALL.
8. CONTRACTOR SHALL COMPLY WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING SERVICES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING SERVICES.
9. WORKMAN WIRE SIZE SHALL BE #12 AWG, NOT INCLUDING CONDUIT WORK, UNLESS NOTED OTHERWISE. ALL CONDUITS SHALL BE COPPER WITH THIN INSULATION.
10. ALL WIRING SHALL BE PROTECTED FROM DRY LOCATIONS. CAST ALUMINUM SHALL BE USED IN ALL LOCATIONS. SPECIAL ENCLLOSURES FOR OTHER CLASSIFIED AREAS.
11. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING SERVICES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING SERVICES.
12. ALL ITEMS FOR COMPLETE ELECTRICAL SYSTEM AND PROVIDE WORKING ORDER.
13. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING SERVICES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING SERVICES.
14. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING SERVICES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING SERVICES.
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31. TELEPHONE SERVICES. CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH PULL STRINGS AS INDICATED ON DRAWINGS.
32. ELECTRICAL AND TELCO RACEWAYS TO BE BURIED A MINIMUM OF 2' DEPTH. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING SERVICES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING SERVICES.
33. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING SERVICES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING SERVICES.
34. ALL BOLTS SHALL BE STAINLESS STEEL.


GROUNDING NOTES:

1. COMPRESSION CONNECTIONS (2), 2" A-BARE TINED SOLD COPPER CONDUITS AND ANTI-OXIDANT COMPOUND BEFORE MOUNTING. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING SERVICES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING SERVICES.
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FOUNDATION, EXCAVATION, & BACKFILL NOTES:


1. ALL VERTICAL GRADED SLOPES SHALL BE A MAXIMUM OF 3 HORIZONTAL TO 1 VERTICAL.
2. ALL EXCAVATIONS PREPARED FOR PLACEMENT OF CONCRETE SHALL BE UNDISTURBED SOILS. SUBSTANTIALLY HORIZONTAL AND FREE FROM ANY LOOSE, UNSUITABLE MATERIAL OR FROZEN SOILS, AND WITHOUT THE NEED FOR SHORING OR BRACING. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING SERVICES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING SERVICES.
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PLANS PREPARED FOR:




at&t

PLANS PREPARED BY:



INFINIGY8  
ENGINEERING, PLLC

PROJECT MANAGER:



mch

10590 W. OCEAN AIR DRIVE, SUITE 300  
SAN DIEGO, CA 92130

47849  
4/3/20  
CHARTERED PROFESSIONAL ENGINEER

DESCRIPTION

DATE

BY

REVIEW

ISSUED FOR CONSTRUCTION

04/03/20

DJP

0

REVISED/ISSUED FOR REVIEW

11/27/19

DJP

1

REVISED/ISSUED FOR REVIEW

11/27/19

DJP

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REVISED/ISSUED FOR REVIEW

11/27/19

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11/27/19

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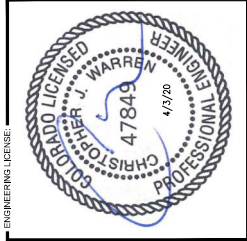
100





PLANS PREPARED FOR:  
**INFINIGY8**  
ENGINEERING, PLLC  
2650 W. HICKENSE RD, SUITE 500  
HOFFMAN ESTATES, IL 60169  
Office # (847) 648-4088

PROJECT MANAGER:  
**mdh**  
10580 W. OCEAN AIR DRIVE, SUITE 300  
SAN DIEGO, CA 92150  
ENGINEERING LICENSE:



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4	REVISED/ISSUED FOR REVIEW	11/07/20	CDP	3
5	ISSUED FOR REVIEW	10/07/19	CDP	A

AT&T SITE NAME:  
**SCHREIVER AFB**

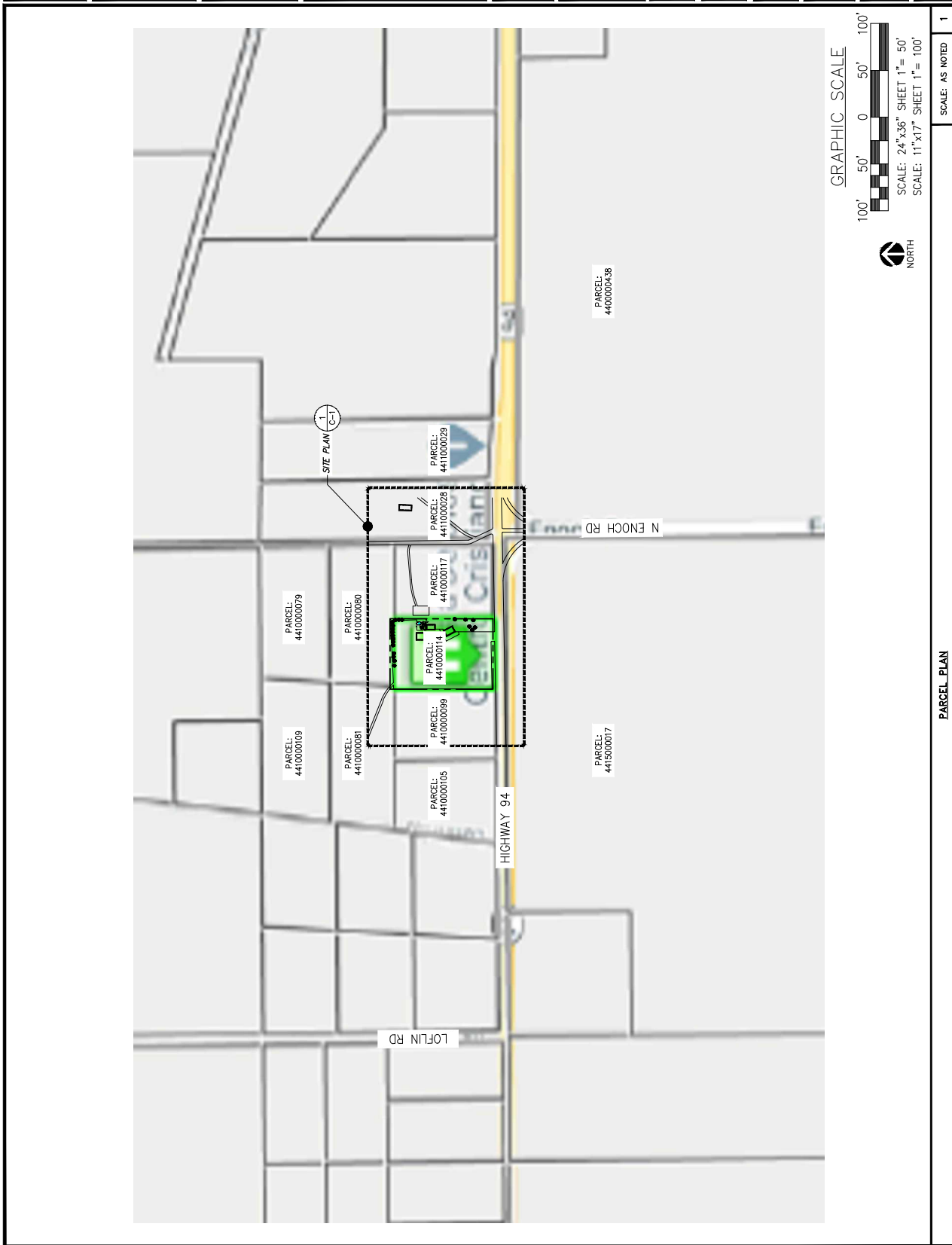
AT&T SITE NUMBER:  
**COL02065**

AT&T FA NUMBER:  
**10099187**

SITE ADDRESS:  
**15642 HIGHWAY 94  
COLORADO SPRINGS, CO 80930**

SHEET DESCRIPTION:  
**PARCEL PLAN**

SHEET NUMBER:  
**P-1**





**INFINIGY<sup>2</sup>**  
**ENGINEERING, PLLC**  
2500 W. HIGGINS RD, SUITE 500  
HOFFMAN ESTATES, IL 60169  
Office # (847) 648-4068

JOB NUMBER: 674-003

**mpw**

10590 W. OCEAN AIR DRIVE, SUITE 300  
SAN DIEGO, CA 92130



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	REVISED/ISSUED FOR REVIEW	11/27/19	CAP	B
	REVISED/ISSUED FOR REVIEW	11/26/19	CAP	C
	ISSUED FOR REVIEW	10/18/19	CAP	A

AT&amp;T SITE NAME:

SCHREIVER AFB

AT&amp;T SITE NUMBER:

COL02065

AT&amp;T CARRIER NUMBER:

10099187

SITE ADDRESS: \_\_\_\_\_

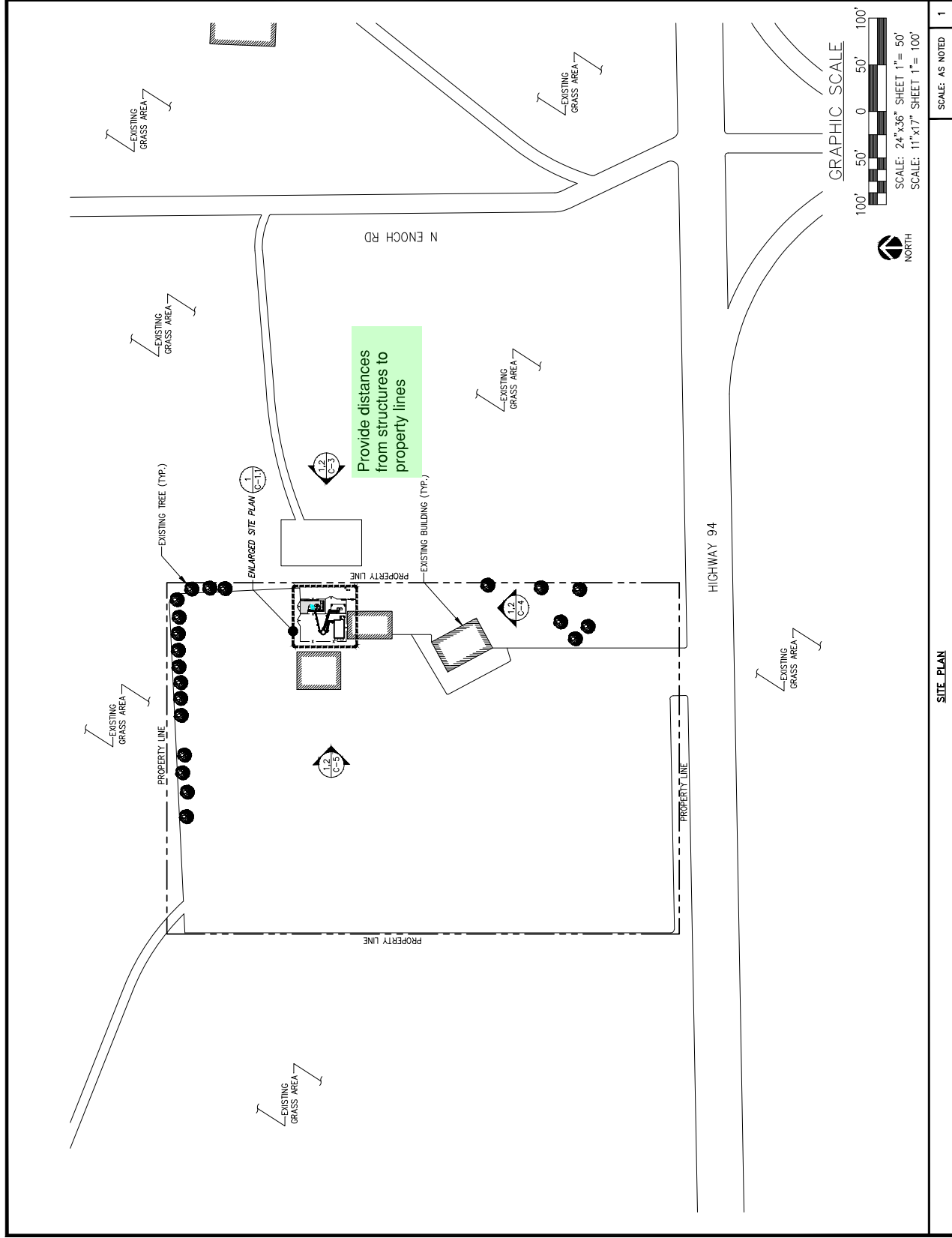
15642 HIGHWAY 94  
COLORADO SPRINGS, CO 80906

SHEET DESCRIPTION

## SITE PLAN

SHEET NUMBER: -

15







PLANNING PREPARED BY:

**INFINIGY&**  
ENGINEERING, PLLC

**JOB NUMBER: 674--003**



10590 W. OCEAN AIR DRIVE, SUITE 300  
SAN DIEGO, CA 92130



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	REVISED/ISSUED FOR REVIEW	11/27/19	CAP	C
	REVISED/ISSUED FOR REVIEW	11/26/19	CAP	B
	ISSUED FOR REVIEW	10/18/19	CAP	A

SCHREIVER AFB

COL02065

10099187

SITE ADDRESS: 15642 HIGHWAY 94  
COLORADO SPRINGS, CO 80931

**SHEET DESCRIPTION:**

**EXISTING EQUIPMENT  
LAYOUT**

NUMBER: **C-2**

## DC POWER PLANT, RECTIFIERS & CONVERTERS:

1. PASSES RECTIFIER CAPACITY N+1; EXISTING EMERSON O.D. NETSURE 512 -48V DOPP (NEQ.19341) IS EQUIPPED WITH (9) EA. 2 KW HE -48VDC RECTIFIERS (NEQ.19330).
2. PASSES CONVERTER CAPACITY; EXISTING EMERSON 512 -48V DOPP IS EQUIPPED WITH (5) EA. HE 1.5 KW -48VDC+24VDC CONVERTER MODULES (NEQ.19929). ONLY (3) REQUIRED FOR N+1.

1000

1. NO PERMANENT STANDBY GENERATOR

**DATE RECEIVED:**

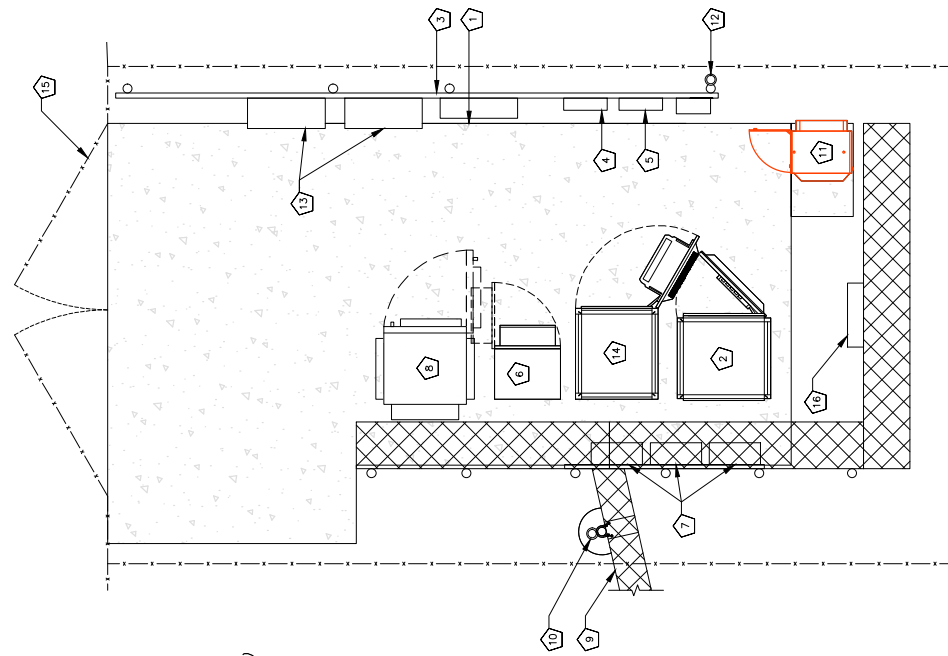
1. PASSES BATTERY RESERVE CAPACITY @ 6.02 HRS; EXISTING EMERSON 512-48V DOPP [NEQ. 19341] AND -48VDC NET/EXTEND FLEX BATTERY CABINET [NEQ. 15918] HAVE A COLLECTIVE TOTAL OF (24) GNB M12V155F BATTERIES [NEQ. 12090] i.e. (6) 155 AH STRINGS EACH CONFIGURED @ -48VDC NOMINAL

HVAC.

- 1 HVAC TONNAGE CAPACITY N/A: OUTDOOR CABINETS

ELECTRICAL SERVICE:

1. PASSES 120/240VAC 200A (48KW) ELECTRICAL SERVICE:  
ESTIMATED @ 23.43 KVA (98A per phase)



4' 2' 0 2' 2'

SCALE: 24"x36" SHEET 1"= 2'

SCALE: 12"x18" SHEET 1"= 4'

CODED DRAWING NOTES:

- |    |   |
|----|---|
| 1  | EXISTING CONCRETE PAD   |
| 2  | EXISTING EMERSON OUTDOOR POWER PLANT<br><i>(REMOVE #4) EXISTING MW2V55FT BATTERIES FROM SITE</i>  |
| 3  | EXISTING H-FRAME  |
| 4  | EXISTING AC LOAD CENTER   |
| 5  | EXISTING GENERATOR RECEPACLE  |
| 6  | EXISTING PURCELL EQUIPMENT CABINET  |
| 7  | EXISTING DC12 SURGE SUPPRESSORS ON EXISTING H-FRAME   |
| 8  | EXISTING OUTDOOR UNITS NODE B   |
| 9  | EXISTING ICE BRIDGE   |
| 10 | EXISTING GPS ANTENNA  |
| 11 | <i>EXISTING 9412 BBU CABINET TO BE REMOVED</i>  |
| 12 | EXISTING LTE GPS ANTENNA  |
| 13 | EXISTING HOFFMAN BOX  |
| 14 | EXISTING EMERSON BATTERY CABINET<br><i>(REMOVE #20) EXISTING ONE MW2V55FT BATTERIES FROM SITE</i> |
| 15 | EXISTING DOUBLE SWING ACCESS GATE   |
| 16 | EXISTING FIBER SLACK BOX  |

## EXISTING EQUIPMENT LAYOUT

SCALE: AS NOTED

**Summary:**

**DC POWER PLANT, RECTIFIERS & CONVERTERS:**

1. FAILS RECTIFIER CAPACITY; EXISTING EMERSON O.D. NETSURE 512 -48V DCPP [NEQ.19341] IS EQUIPPED WITH (9) EA. 2 KW HE -48VDC RECTIFIERS. INSTALL (4) EA. NEW RECTIFIERS [NEQ.15930] FOR A REVISED TOTAL OF (13) TO SATISFY N+1.

2. PASSES CONVERTER CAPACITY; EXISTING EMERSON 512 -48V DCPD IS EQUIPPED WITH (5) EA. HE 1.5 KW -48VDC/+24VDC CONVERTER MODULES [REQ.15929]. ONLY (4) REQUIRED FOR N+1.

**GENERATOR:**

1. NO PERMANENT STANDBY GENERATOR

- BATTERIES:
1. FAILS BATTERY RESERVE CAPACITY @ 3.49 HRS; EXISTING EMERSON 512-48V DCPP [NRCQ 19341] AND 48VDC NETEXTEND FLEX BATTERY CABINET [NED 15918]. REMOVE THE BATTERIES. INSTALL (6) NEW 170ah BATTERIES TO HAVE A COLLECTIVE TOTAL OF (24) GNB MARATHON S12V170 BATTERIES I.e. (6) 170 Ahr STRINGS EACH CONFIGURED @ 48VDC NOMINAL FOR 4.13 hrs of backup

**HVAC:**

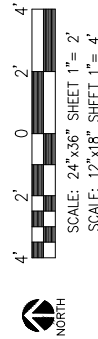
1. HVAC TONNAGE CAPACITY N/A: OUTDOOR CABINETS:

ELECTRICAL SERVICE:

1. PASSES 120/240VAC 200A (48KW) ELECTRICAL SERVICE; MAXIMUM TOTAL CONNECTED LOAD ESTIMATED @ 29.92 KVA (125A per phase).

Flex 21 Purcell required. (1) Vertiv Power Regulator  
1. NOKIA 5G NR (ASIK C-1) FSM4 BBU [CEQ.20975].

1. **NOKIA 5G NR (ASiK C-1) FSM4 BBU**
2. Breakers needed for:
  - o 5G NR Asik C1 - (2) 50 Amp Breakers
  - o AHLBA RRH - (3) 50 Amp Breakers
  - o AHCA RRH - (3) 25 Amp Breakers



SCALE: AS NOTED	1
-----------------	---

ANS PREPARED BY: **INFINIGY<sup>®</sup>**  
**ENGINEERING, PLLC**  
2500 W. HIGGINS RD., SUITE 500  
HOFFMAN ESTATES, IL 60169  
Office # (847) 648-4068

**PROJECT MANAGER:**  **10590 W. OCEAN AIR DRIVE, SUITE 300  
SAN DIEGO, CA 92130**



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	SD/ISSUED FOR REVIEW	02/27/20	CAP	
	SD/ISSUED FOR REVIEW	11/27/19	CAP	
	SD/ISSUED FOR REVIEW	11/26/19	CAP	
	ED FOR REVIEW	10/18/19	CAP	

SCHREIVER AFB

COL02065

10099187

15642 HIGHWAY 94  
COLORADO SPRINGS CO 80921

**PROPOSED EQUIPMENT**

HEET NUMBER: 001

PLANS PREPARED FOR:



PLANS PREPARED BY:

**INFINIGY8**  
ENGINEERING, PLLC  
2650 W. HOGAN RD, SUITE 500  
HOFFMAN ESTATES, IL 60169  
Office # (847) 648-4068

PROJECT NUMBER:

**md7**

10590 W. OCEAN AIR DRIVE, SUITE 300  
SAN DIEGO, CA 92150

ENGINEERING LICENSE:



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REVISED/ISSUED FOR REVIEW	11/07/19	CDP	2
REVISED/ISSUED FOR REVIEW	11/07/19	CDP	3
ISSUED FOR REVIEW	10/07/19	CDP	A

AT&T SITE NAME:

SCHREIVER AFB

AT&T SITE NUMBER:

COL02065

AT&T TPA NUMBER:

10099187

SITE ADDRESS:

15642 HIGHWAY 94  
COLORADO SPRINGS, CO 80930

SHEET DESCRIPTION:

EQUIPMENT PHOTOS

SHEET NUMBER:

C-2.2



DIPLEXER

NO SCALE

1



BATTERY CABINET

NO SCALE

2



HOFFMAN BOX

NO SCALE

3



9412 BBU CABINET

NO SCALE

4



UNITS CABINET

NO SCALE

5



DC POWER PLANT

NO SCALE

6

PLANS PREPARED FOR:



PLANS PREPARED BY:

**INFINIGY8  
ENGINEERING, PLLC**  
2650 W. HOGAN RD, SUITE 500  
HOFFMAN ESTATES, IL 60169  
Office # (847) 648-4088

PROJECT NUMBER:

**JOB NUMBER: 671-63**

**mdh**  
10580 W. OCEAN AIR DRIVE, SUITE 300  
SAN DIEGO, CA 92150

ENGINEERING LICENSE:



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REVISED/ISSUED FOR REVIEW	11/27/19	CDP	2
REVISED/ISSUED FOR REVIEW	11/26/19	CDP	B
ISSUED FOR REVIEW	10/15/19	CDP	A

AT&T SITE NAME:

**SCHREIVER AFB**

AT&T SITE NUMBER:

**COL02065**

AT&T TFA NUMBER:

**10099187**

SITE ADDRESS:

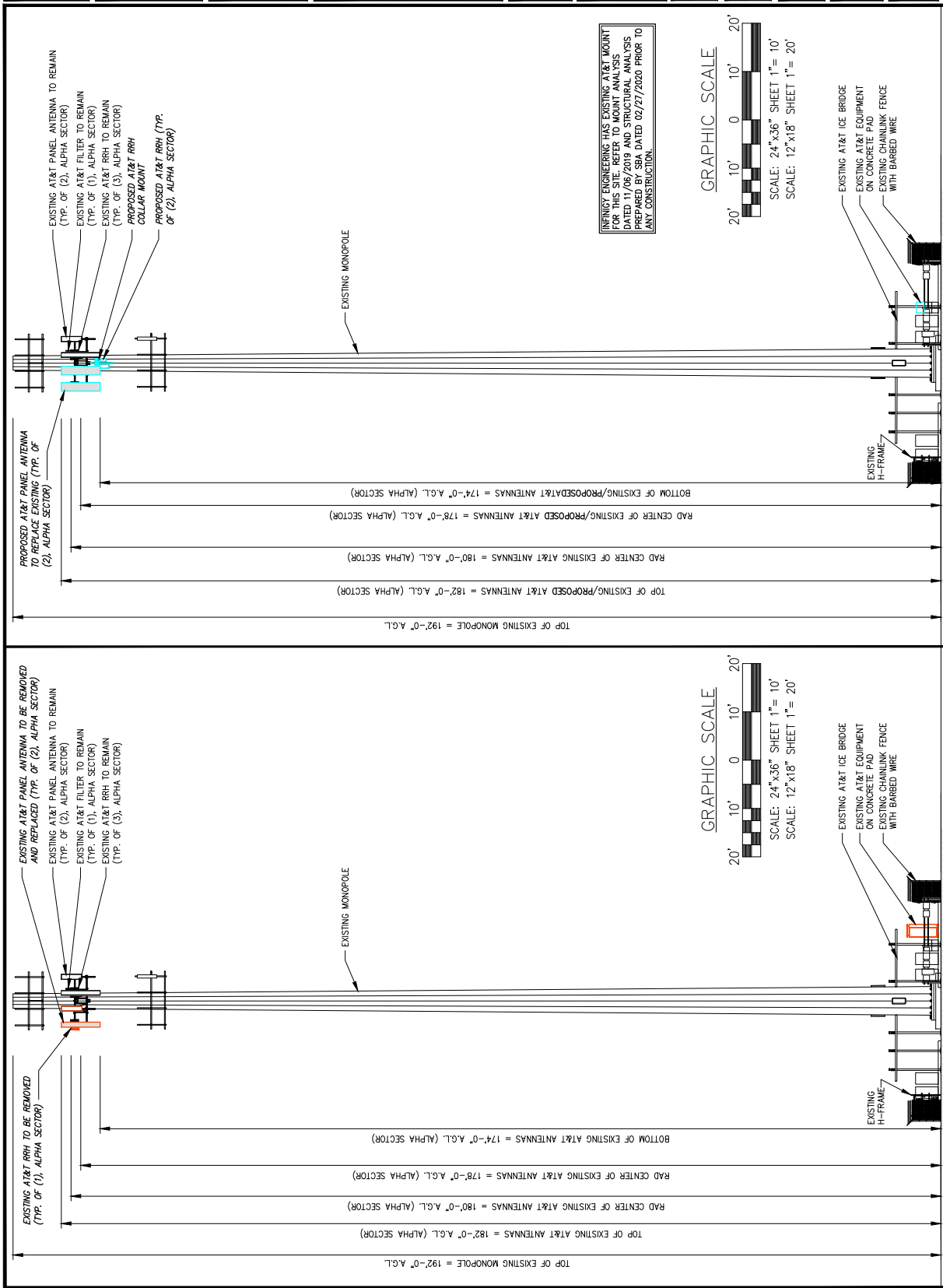
**15642 HIGHWAY 94  
COLORADO SPRINGS, CO 80930**

SHEET DESCRIPTION:

**EAST  
ELEVATION**

SHEET NUMBER:

**C-3**



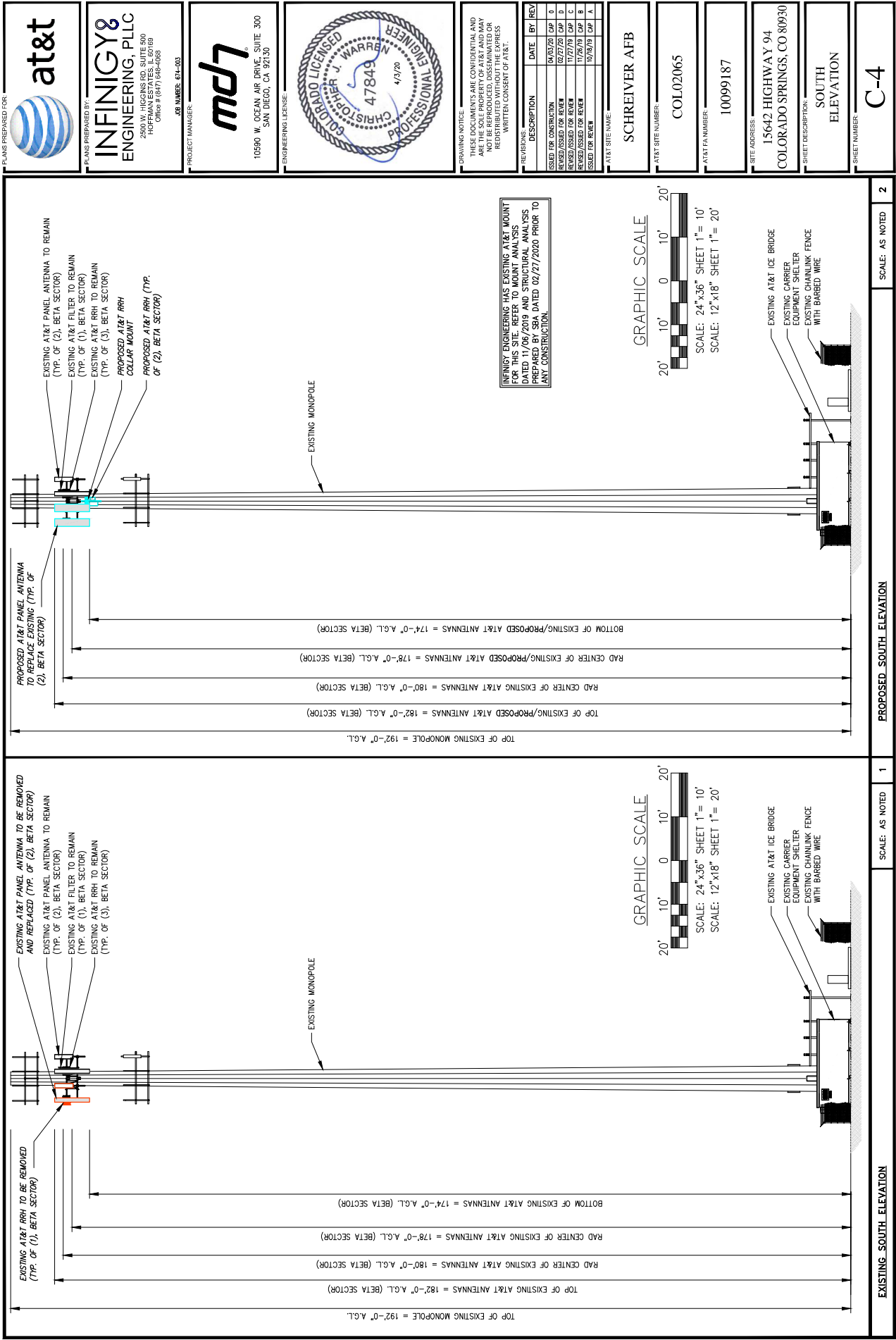
SCALE: AS NOTED

PROPOSED EAST ELEVATION

SCALE: AS NOTED

EXISTING EAST ELEVATION

2



PLANS PREPARED FOR:

PLANS PREPARED BY:

2650 W. HOGANES RD, SUITE 500  
HOFFMAN ESTATES, IL 60169  
Office # (847) 648-4088

PROJECT MANAGER:

10560 W. OCEAN AIR DRIVE, SUITE 300  
SAN DIEGO, CA 92150

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5	REVISED/ISSUED FOR REVIEW	11/27/20	CDP	4
6	ISSUED FOR REVIEW	10/26/21	CDP	A

AT&T SITE NAME:

SCHREIVER AFB

AT&T SITE NUMBER:

COL02065

AT&T TFA NUMBER:

10099187

SITE ADDRESS:

15642 HIGHWAY 94  
COLORADO SPRINGS, CO 80930

SHEET DESCRIPTION:

SOUTH ELEVATION

SHEET NUMBER:

C-4



**INFINIGY8**  
ENGINEERING, PLLC

2500 W. HIGGINS RD. SUITE 500  
HOFFMAN ESTATES, IL 60169  
Office # (847) 648-4088

**JOB NUMBER: 674--003**

**mpw**

10590 W. OCEAN AIR DRIVE, SUITE 300  
SAN DIEGO, CA 92130

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	REVISED/ISSUED FOR REVIEW	11/26/19	CAP	B
	ISSUED FOR REVIEW	10/16/19	CAP	A

AT&amp;T SITE NAME:

SCHREIVER AFB

AT&amp;T SITE NUMBER:

COL02065

## AT&T CANADA

10099187

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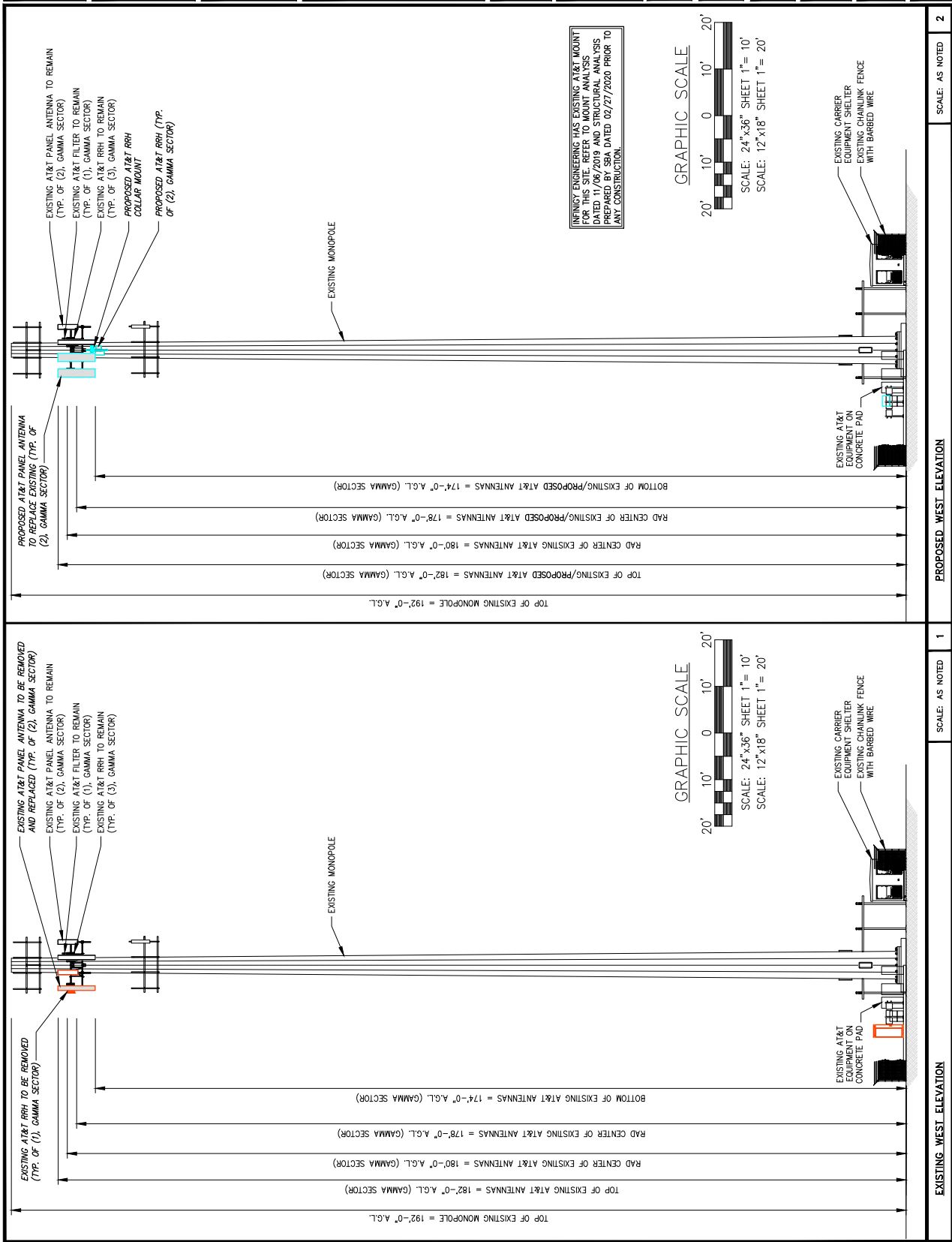
15642 HIGHWAY 94  
COLORADO SPRINGS, CO 80930

**SHEET DESCRIPTION:** —

WEST  
ELEVATION

SHEET NUMBER: -

50





**INFINIGY<sup>2</sup>**  
ENGINEERING, PLLC  
2500 W. HIGGINS RD., SUITE 500  
HOFFMAN ESTATES, IL 60169  
Office # (847) 648-0068

**md7**  
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	RENEWED/ISSUED FOR REVIEW	02/27/20	CAP	C
	RENEWED/ISSUED FOR REVIEW	11/27/19	CAP	D
	RENEWED/ISSUED FOR REVIEW	11/26/19	CAP	B
	ISSUED FOR REVIEW	10/18/19	CAP	A

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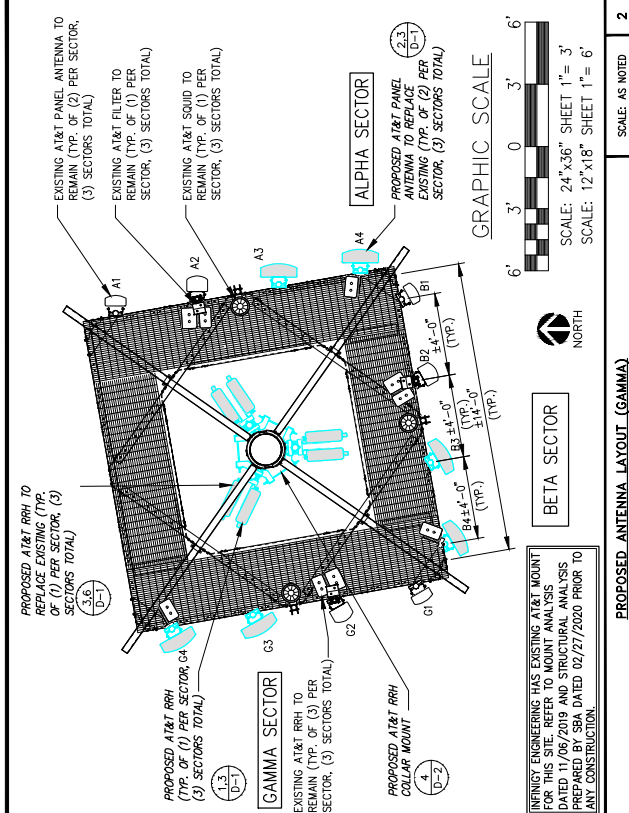
COL02065

AT&T FA NUMBER: 10099187

SITE ADDRESS: 15642 HIGHWAY Y 94  
COLORADO SPRINGS, CO 80930

## ANTENNA LAYOUTS & LOADING CHART

C-6



### PROPOSED ANTENNA LAYOUT (GAMMA)

CABLE INVENTORY		
CABLE TYPE	CABLE AMOUNT	CABLE LENGTH
3	FIBER	±230'
3	2" INNERDUCT	±230'
6	DC LINES	±230'
6	LDPS-50A_850	±300'

## CABLE INVENTORY

ANTENNA SCHEDULE						
SECTOR	POSITION	ANTENNA	TECHNOLOGY	840 CENTER (QTY/TYPER)	TMA/SOLID/DUPLEXER/FILTER (QTY/TYPER)	
ALPHA	1	(E) POWERWAVE P65-15-XLIH-RR	UMTS 850/1900	180°-0°	--	--
ALPHA	2	(E) XWV EP60-654I-B18	LTE AWS/WCS	178°-0°	(E) 1/RRH425-WCS-4R (E) 1/B66A RRR4X45-4R	(E) (1) WCS-WFO-AMT
ALPHA	3	(N) CO TP465P-BUBDA-K	LTE 850, 50 850	178°-0°	(N) 1/AHCA	--
ALPHA	4	(N) CO TP465P-BUBDA-K	LTE 700/1900	178°-0°	1/AHBA (AT ANTENNA) (E) 1/B25 RRR4X30-4R	(E) (1) DC6-48-60-18-5F
BETA	1	(E) POWERWAVE P65-15-XLIH-RR	UMTS 850/1900	180°-0°	--	--
BETA	2	(E) XWV EP60-654I-B18	LTE AWS/WCS	178°-0°	(E) 1/RRH425-WCS-4R (E) 1/B66A RRR4X45-4R	(E) (1) WCS-WFO-AMT
BETA	3	(N) CO TP465P-BUBDA-K	LTE 850, 50 850	178°-0°	(N) 1/AHCA	(E) (1) DC6-48-60-18-5F
BETA	4	(N) CO TP465P-BUBDA-K	LTE 700/1900	178°-0°	1/AHBA (AT ANTENNA) (E) 1/B25 RRR4X30-4R	--
GAMMA	1	(E) POWERWAVE P65-15-XLIH-RR	UMTS 850/1900	180°-0°	--	--
GAMMA	2	(E) XWV EP60-654I-B18	LTE AWS/WCS	178°-0°	(E) 1/RRH425-WCS-4R (E) 1/B66A RRR4X45-4R	(E) (1) WCS-WFO-AMT
GAMMA	3	(N) CO TP465P-BUBDA-K	LTE 850, 50 850	178°-0°	(N) 1/AHCA	(E) (1) DC6-48-60-18-5F
GAMMA	4	(N) CO TP465P-BUBDA-K	LTE 700/1900	178°-0°	1/AHBA (AT ANTENNA) (E) 1/B25 RRR4X30-4R	--

## ANTENNA SCHEDULE

### LOADING CHART

1. INFORMATION BASED ON PROVIDED RFDS CURRENT AT THE TIME DRAWINGS WERE ISSUED. CONTRACTOR SHALL BE CONSTRUCTION ON FINAL APPROVED RFDS IN CASE OF CONFLICT, FINAL APPROVED RFDS SUPERSEDES THIS INFORMATION.
2. SEE RFDS FOR EXISTING AND PROPOSED ANTENNA MODEL/DIMENSIONS/AZIMUTHS/RAID CENTERS/TILTS.
3. CONTRACTOR TO VERIFY REQUIRED CABLE LENGTHS FOR EACH ANTENNA.
4. CONTRACTOR TO REMOVE UNUSED GSM COAX CABLES AS NECESSARY TO ACCOMMODATE PROPOSED DC & FIBER TRUNKS.



PLANS PREPARED FOR:



PLANS PREPARED BY:

**INFINIGY8**  
ENGINEERING, PLLC  
2500 WINTERGARDEN, SUITE 500  
WINTERGARDEN, FL 32789  
Office # (847) 648-4068

PROJECT MANAGER:

JS# NUMBER: 674-003



10590 W. OCEAN AIR DRIVE, SUITE 300  
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3	REDESIGNED/ISSUED FOR REVIEW	07/27/20	CLP	0
4	REDESIGNED/ISSUED FOR REVIEW	11/12/20	CLP	0
5	ISSUED FOR REVIEW	10/16/19	CLP	0

SCHREIVER AFB

AT&T SITE NUMBER:

COL02065

AT&T FA NUMBER:

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SITE ADDRESS:

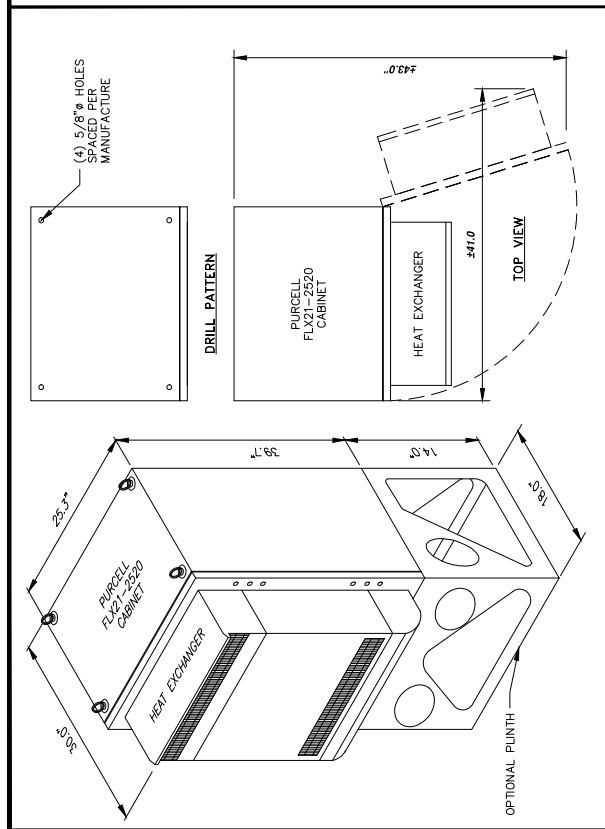
15642 HIGHWAY 94  
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SHEET DESCRIPTION:

EQUIPMENT DETAILS

SHEET NUMBER:

D-2

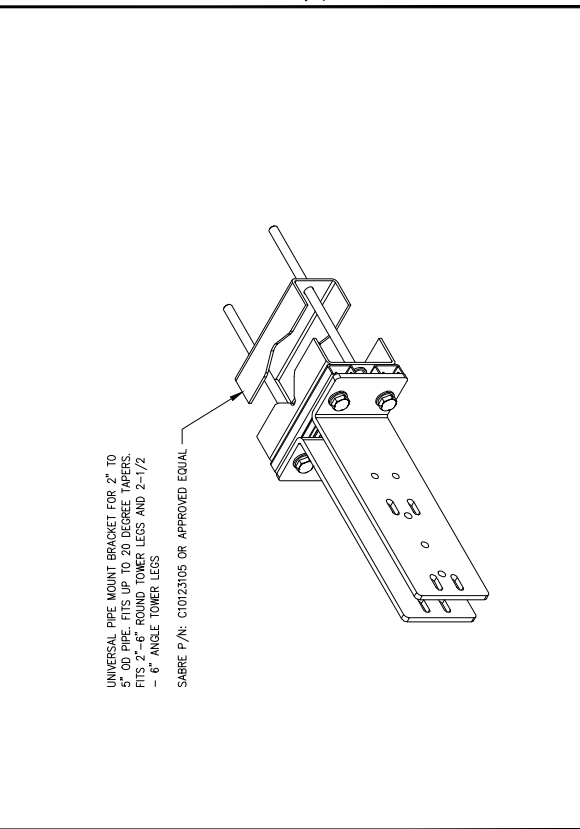


PURCELL CABINET DETAIL

NO SCALE

RECTIFIER SPECIFICATIONS

NO SCALE

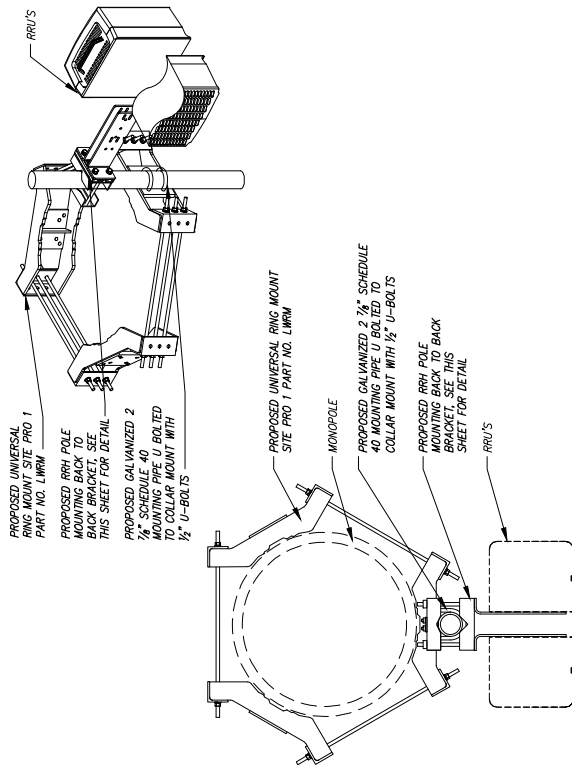


BACK TO BACK MOUNT DETAIL

NO SCALE

RRH MOUNT DETAIL

NO SCALE



PROPOSED UNIVERSAL RING MOUNT SITE PRO 1 PART NO. LRMW

PROPOSED RRH POLE MOUNTING BACK TO BACK BRACKET. SEE THIS SHEET FOR DETAIL

PROPOSED GALVANIZED 2 1/2" SCHEDULE 40 MOUNTING PIPE U-BOLTED TO COLLAR MOUNT WITH 1/2" U-BOLTS

PROPOSED UNIVERSAL RING MOUNT SITE PRO 1 PART NO. LRMW

MONOPOLE

PROPOSED GALVANIZED 2 1/2" SCHEDULE 40 MOUNTING PIPE U-BOLTED TO COLLAR MOUNT WITH 1/2" U-BOLTS

PROPOSED RRH POLE MOUNTING BACK TO BACK BRACKET. SEE THIS SHEET FOR DETAIL

RRH'S

PLANS PREPARED FOR:



PLANS PREPARED BY:

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PROJECT MANAGER:  
JOB NUMBER: 674-603



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1	ISSUED FOR CONSTRUCTION	06/05/20	CDP	0
2	REVISED/ISSUED FOR REVIEW	07/27/19	CDP	1
3	REVISED/ISSUED FOR REVIEW	11/27/19	CDP	2
4	REVISED/ISSUED FOR REVIEW	11/26/19	CDP	3
5	ISSUED FOR REVIEW	10/16/19	CDP	4

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SHEET DESCRIPTION:

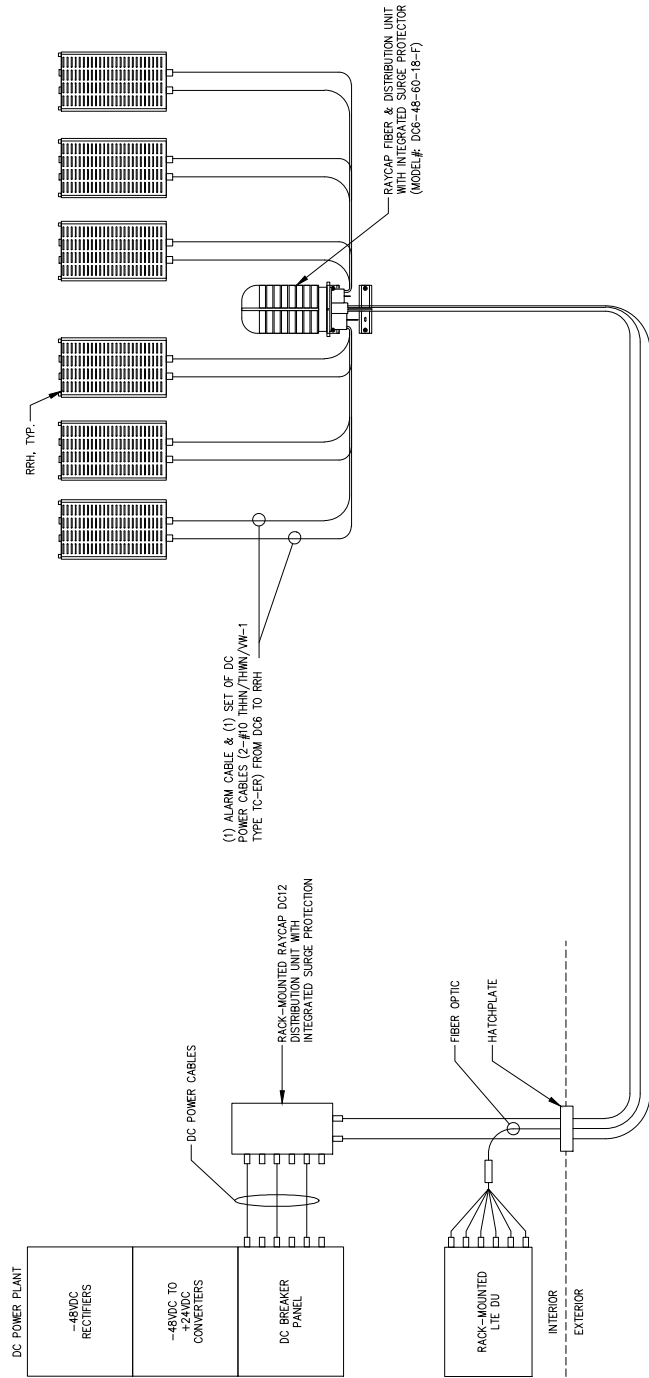
DC SCHEMATIC  
DIAGRAM

SHEET NUMBER:

E-1

NOTE:

1. DC POWER WIRING SHALL BE COLOR CODED AT EACH END FOR IDENTIFYING +24V AND -48V CONDUCTORS. RED MARKINGS SHALL IDENTIFY +24V AND BLUE MARKINGS SHALL IDENTIFY -48V. REFER TO ATT-002-290-701.
2. NON-LTE DC POWER WIRING SIZE 14AWG TO 10AWG SHALL BE TELCOFLEX L2. DC POWER WIRING 8AWG AND LARGER SHALL BE TELCOFLEX L2. ALL TELCOFLEX MUST BE L2 IF REPLACED.
3. LTE POWER WIRING SHALL BE IN ACCORDANCE WITH ATT-002-290-531.
4. DC ELECTRICAL LOAD DEMAND FOR PROPOSED ADDITIONS WERE INCLUDED IN PRIOR AC LOAD CALCULATIONS.
5. ALL UPGRADES TO EXISTING SERVICE IS RESPONSIBILITY OF THE OWNER.




DC SCHEMATIC DIAGRAM (TYP. OF 1 SECTOR, 3 SECTORS TOTAL)


NO SCALE

1


PLANS PREPARED FOR:




PLANS PREPARED BY:

  
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REVISED/ISSUED FOR REVIEW	07/27/19	CDP	1
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REVISED/ISSUED FOR REVIEW	11/26/19	CDP	B
ISSUED FOR REVIEW	10/16/19	CDP	A

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SHEET DESCRIPTION:

GROUNDING SCHEMATIC  
DIAGRAM

SHEET NUMBER:

G-1

LEGEND:

EXOTHERMIC

COMPRESSION TYPE CONNECTIONS

GROUNDING CONDUCTOR

INTERCONNECT TO ANTENNA GROUND LUG (IF APPLICABLE)

ANTENNA MOUNTS

#6 AWG CU INSULATED (TYP.)

LTE RRH

#6 AWG CU INSULATED (TYP.)

SECTOR GROUND BAR MOUNTED NEAR ANTENNAS (TYP. OF (3) SECTORS)

OTHER SECTORS

COLLECTOR GROUND BAR AT TOP OF TOWER

COAX GROUND KITS

GROUND TAILS

RAYCAP "SOLID" SURGE SUPPRESSOR

#6 AWG CU INSULATED (TYP.)

EXISTING GROUND BAR MOUNTED AT BASE OF TOWER

GROUND TAILS

#2 AWG CU

EXISTING TOWER GROUND RING

3/4"x10' GROUND ROD (TYP.)

NOT USED

NO SCALE

2



PLANS PREPARED BY:

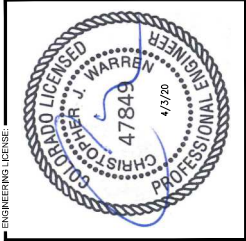
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DESCRIPTION				
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	REVISED/ISSUED FOR REVIEW	02/27/20	CAP	D
	REVISED/ISSUED FOR REVIEW	11/27/19	CAP	C
	REVISED/ISSUED FOR REVIEW	11/26/19	CAP	B
	ISSUED FOR REVIEW	10/16/19	CAP	A

AT&T SITE NAME: **SCHREIVER AFB**

AT&T SITE NUMBER: COL02065

AT&T FA NUMBER: 10099187

SITE ADDRESS: 15642 HIGHWAY 94  
COLORADO SPRINGS, CO 80930

**GROUNDING DETAILS**

SHEET NUMBER: **G-2**

WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED YA6C-2TC38	3/8" - 16 NC S 2 BOLT	
#2 AWG SOLID TINNED YA3C-2TC38	3/8" - 16 NC S 2 BOLT	
#2 AWG STRANDED YA2C-2TC38	3/8" - 16 NC S 2 BOLT	
#2/0 AWG STRANDED YA26-2TC38	3/8" - 16 NC S 2 BOLT	
#4/0 AWG STRANDED YA28-2N	1/2" - 16 NC S 2 BOLT	

**EXOTHERMIC WELD GROUNDING CONNECTIONS**

NOTE: ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.

2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

**CABLE GROUND KIT CONNECTION**

NOTE: DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.

1. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR AS SHOWN IN THE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

**GROUND KIT CONNECTION**

NOTE: DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.

1. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

**LUG DETAIL**

NOTE: MINIMUM OF 3 THREADS TO BE VISIBLE (TYP)

2 HOLE LONG BARREL TINNED SOLID COPPER LUG (TYP)

S/S SPLIT WASHER (TYP)

S/S FLAT WASHER (TYP)

TIN COATED SOLID COPPER BUS BAR

CHERRY INSULATOR INSTALLED IF REQUIRED

S/S BOLT (TYP)



PLANS PREPARED BY:

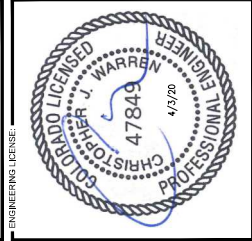
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	REVISED/ISSUED FOR REVIEW	11/27/19	CAP	C
	REVISED/ISSUED FOR REVIEW	11/26/19	CAP	B
	ISSUED FOR REVIEW	10/18/19	CAP	A

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AT&T SITE NUMBER: \_\_\_\_\_

AT&T FA NUMBER: 10099187

**SITE ADDRESS:**  
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SHEET DESCRIPTION: PLUMBING DIAGRAM

SHEET NUMBER: RF-1

