



AT&T  
Mobility



Know what's below.  
Call before you dig.

SITE NAME: NSB-CO.BDN\_ADD\_4591\_COL02148\_Peyton

SITE NUMBER: COL02148

FA NUMBER: 12871723  
PROJECT NUMBER: 3755A0HK10  
USID: 274070

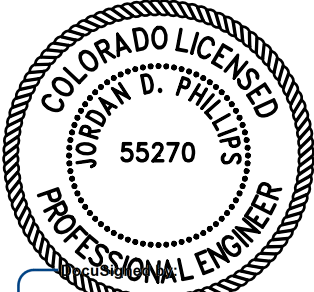
PACE NUMBER: MRUTH029076  
AT&T SITE ADDRESS: 12960 N Peyton Hwy  
Peyton, CO 80831

STRUCTURE TYPE: 119'-0" Monopole  
PROJECT TYPE: New Site Build  
PROJECTS: LTE 1C 2C 3C 4C 5C 6C

Prepared by:  
**NEXIUS**  
NEXIUS SOLUTIONS, INC.  
2595 North Dallas Parkway  
Suite 300  
Frisco, TX 75034

Client:  
  
**AT&T**  
Mobility  
161 Inverness Dr W, 2nd Floor  
Englewood, Colorado 80112

FOR CONSTRUCTION



*Jordan Phillips*  
DATE SIGNED: 10/15/20  
PE License Renewal: 10/31/21



*Jack T. Phipps*  
DATE SIGNED: 10/15/20  
PE License Renewal: 10/31/21

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SUBMITTALS

REV	DATE	DESCRIPTION	BY
C	03/20/20	FOR REVIEW	RA
D	04/16/20	FOR REVIEW	RA
0	04/22/20	FINAL CD	RA
1	08/24/20	REVISED CD	RA
2	10/15/20	REVISED CD	RA

SITE INFORMATION:  
SITE NAME: NSB-CO.BDN\_ADD\_4591\_COL02148\_Peyton  
SITE NUMBER: COL02148  
FA LOCATION CODE: 12871723  
PACE ID: MRUTH029076  
ADDRESS: 12960 N Peyton Hwy  
Peyton, CO 80831

PROJECTS: LTE 1C 2C 3C 4C 5C 6C

DRAWN BY: RA  
DATE: 01/02/20

CHECKED BY: RA  
DATE: 10/15/20

SHEET TITLE: TITLE SHEET

SHEET NUMBER: T-1

VICINITY MAP



DRIVING DIRECTIONS

FROM AT&T OFFICE:

- GET ON I-25 S IN CENTENNIAL FROM INVERNESS BLVD AND E DRY CREEK RD
- HEAD NORTHEAST TOWARD INVERNESS DR W
- TURN LEFT TOWARD INVERNESS BLVD
- TURN RIGHT ONTO INVERNESS BLVD
- TURN LEFT AT THE 1ST CROSS STREET ONTO INVERNESS DR W
- USE THE LEFT LANE TO TURN LEFT ONTO E DRY CREEK RD
- USE THE LEFT 2 LANES TO TURN LEFT TO MERGE ONTO I-25 S
- FOLLOW I-25 S TO S COUNTY LINE RD/PALMER DIVIDE RD IN DOUGLAS COUNTY. TAKE EXIT 163 FROM I-25 S
- MERGE ONTO I-25 S
- TAKE EXIT 163 FOR COUNTY LINE RD TOWARD PALMER LAKE
- CONTINUE ON S COUNTY LINE RD/PALMER DIVIDE RD TO YOUR DESTINATION IN PEYTON
- TURN LEFT ONTO S COUNTY LINE RD/PALMER DIVIDE RD
- TURN RIGHT ONTO CO-83 S
- TURN LEFT ONTO HODGEN RD
- TURN RIGHT ONTO EASTONVILLE RD
- TURN LEFT ONTO MURPHY RD
- TURN RIGHT ONTO PEYTON HWY
- TURN LEFT TO STAY ON PEYTON HWY
- TURN RIGHT

CODE COMPLIANCE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH CURRENT EDITIONS OF THE FOLLOWING APPLICABLE CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES.

- 2018 INTERNATIONAL BUILDING CODE
- 2020 NATIONAL ELECTRICAL CODE
- ADOPTED CITY/COUNTY ORDINANCES
- ALL CODES SUBJECT TO LOCAL JURISDICTION REQUIREMENTS

THESE DRAWINGS ARE DESIGNED TO THE LATEST CODES. THEY ALSO MEET THE ADOPTED CODE REQUIREMENTS OF THE JURISDICTION.

SHEET INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
LS-1	LAND SURVEY
LS-2	LAND SURVEY
C-1	SITE PLAN
C-2	ENLARGED SITE PLAN
C-3	ANTENNA PLAN AND MOUNT
C-4	TOWER ELEVATION
C-5	ICE BRIDGE DETAILS
C-6	GENERATOR DETAILS
C-7	WUC DETAILS
C-8	EQUIPMENT DETAILS (1 OF 5)
C-9	EQUIPMENT DETAILS (2 OF 5)
C-10	EQUIPMENT DETAILS (3 OF 5)
C-11	EQUIPMENT DETAILS (4 OF 5)
C-12	EQUIPMENT DETAILS (5 OF 5)
C-13	ICE SHIELD DETAILS (1 OF 2)
C-14	ICE SHIELD DETAILS (2 OF 2)
C-15	WUC PLATFORM DETAILS
S-1	GENERATOR FOUNDATION DETAILS
E-1	ELECTRICAL NOTES
E-2	POWER PANEL SCHEDULE
E-3	ELECTRICAL DETAILS
E-4	SERVICE RACK DETAILS
G-1	GROUNDING PLAN AND DETAILS
G-2	ANTENNA GROUNDING DETAILS
G-3	ANTENNA GROUNDING DETAILS
G-4	GROUNDING DETAILS
GN-1	GENERAL NOTES

APPROVALS

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND MAY IMPOSE CHANGES OR MODIFICATIONS.

NEXIUS LEASING/SITE ACQUISITION:

DATE:

NEXIUS A&E:

DATE:

NEXIUS CM:

DATE:

AT&T CM:

DATE:

AT&T RF:

DATE:

SITE INFORMATION

SITE NAME:	NSB-CO.BDN_ADD_4591_COL02148_Peyton
SITE NUMBER:	COL02148
FA LOCATION CODE:	12871723
ADDRESS:	12960 N Peyton Hwy
CITY, STATE ZIP:	PEYTON, CO 80831
COUNTY:	EL PASO
LATITUDE:	39.016900°
LONGITUDE:	-104.482000°
GROUND ELEVATION:	6855' A.M.S.L.
STRUCTURE TYPE:	MONOPOLE
STRUCTURE HEIGHT:	99'-0" A.G.L. W/ 20'-0" EXTENSION (119'-0" A.G.L.)
APPLICANT:	AT&T MOBILITY 161 Inverness Dr W, 2nd Floor Englewood, Colorado 80112
SITE ACQUISITION:	NEXIUS SOLUTIONS, INC. 7025 S FULTON ST, SUITE 100 CENTENNIAL, CO 80112
A&E SERVICES:	NEXIUS SOLUTIONS, INC. 2595 DALLAS PKWY FRISCO, TX 75034 (972) 581-9888
POWER PROVIDER:	MVEA
TELCO PROVIDER:	TBD
TOWER OWNER:	AMERICAN TOWER CORPORATION
JURISDICTION:	EL PASO COUNTY
PARCEL #:	3207000007
PARCEL OWNER:	LONGHORN ACRES LAND & CATTLE LLC
ZONING DESIGNATION:	A-35: AGRICULTURAL

SCOPE OF WORK

THE PURPOSE OF THIS PROJECT IS AS FOLLOWS:  
TOWER SCOPE OF WORK:

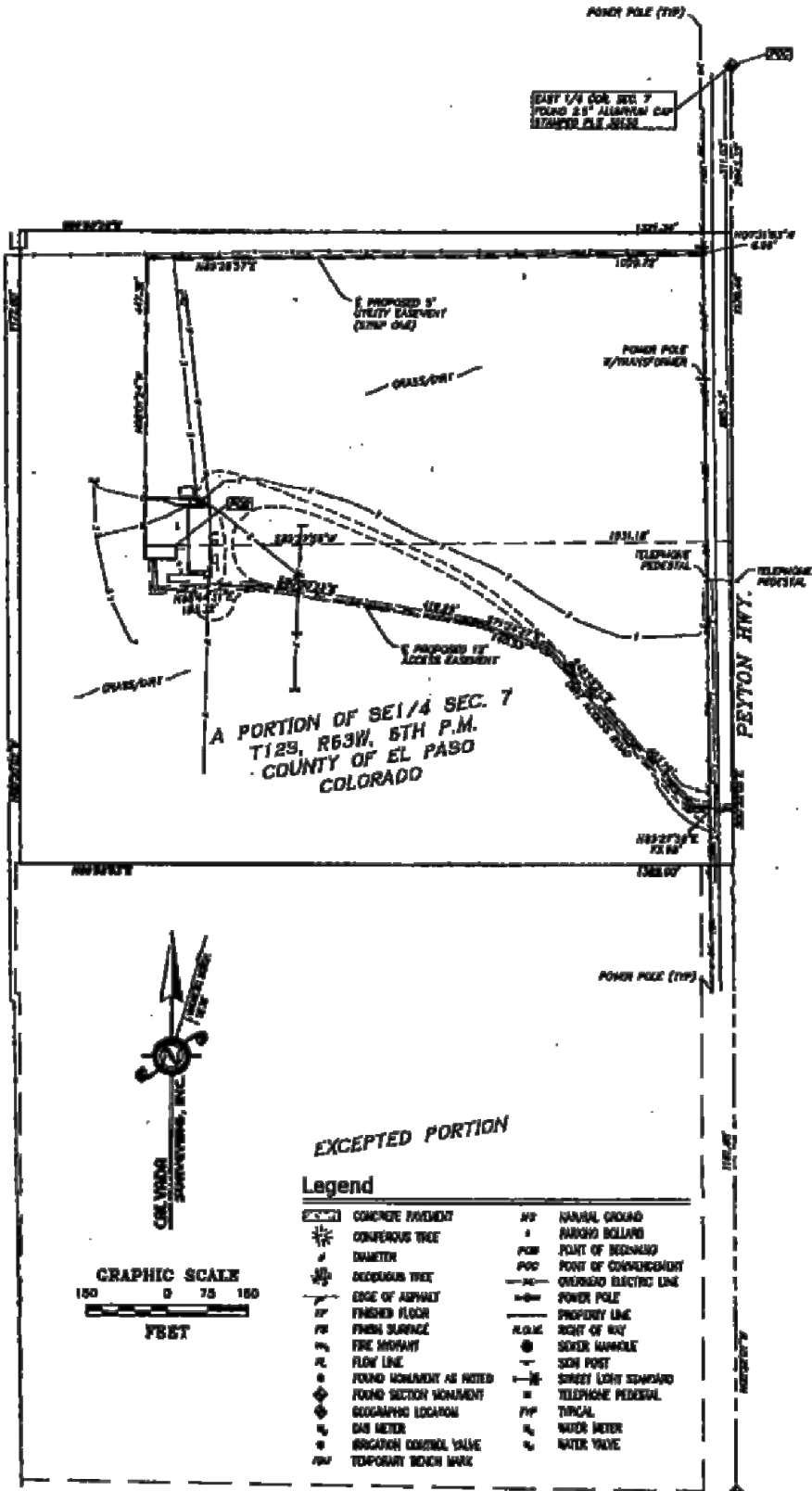
GROUND SCOPE OF WORK:

- INSTALLATION OF (6) PANEL ANTENNAS
  - INSTALLATION OF (4) SECTOR MOUNTS
  - INSTALLATION OF (3) SQUIDS
  - INSTALLATION OF (9) RRHs
  - INSTALLATION OF (6) DC POWER TRUNKS
  - INSTALLATION OF (3) FIBER TRUNKS
  - 20'-0" EXTENSION OF MONOPOLE (BY OTHERS)
  - INSTALLATION OF (2) EW63 WAVEGUIDES
  - INSTALLATION OF (1) 6'-0" MICROWAVE DISH @65'-0" AGL
  - INSTALLATION OF (2) RM-DM-6 MONOPOLE MOUNTS
  - INSTALLATION OF (1) 6'-0" ICE SHIELD
- INSTALLATION OF H-FRAME MOUNTED ON FENCE
  - INSTALLATION OF WALK UP TO CABINET (WUC)
  - INSTALLATION OF (2) DC12s
  - INSTALLATION OF (1) PTLC
  - INSTALLATION OF 30KW GENERATOR
  - INSTALLATION OF (1) CONCRETE PAD
  - INSTALLATION OF ICE BRIDGE
  - INSTALLATION OF (1) WUC PLATFORM

GENERAL NOTES

THE FACILITY IN UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE. POTABLE WATER OR TRASH DISPOSAL IS NOT REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

Boundary Detail  
Scale: 1" = 150'



Geographic Coordinates as Shown

NAD83 DATUM LATITUDE 38°01'00.69"N LONGITUDE 104°28'59.37"W

Date of Survey

MARCH 30, 2010

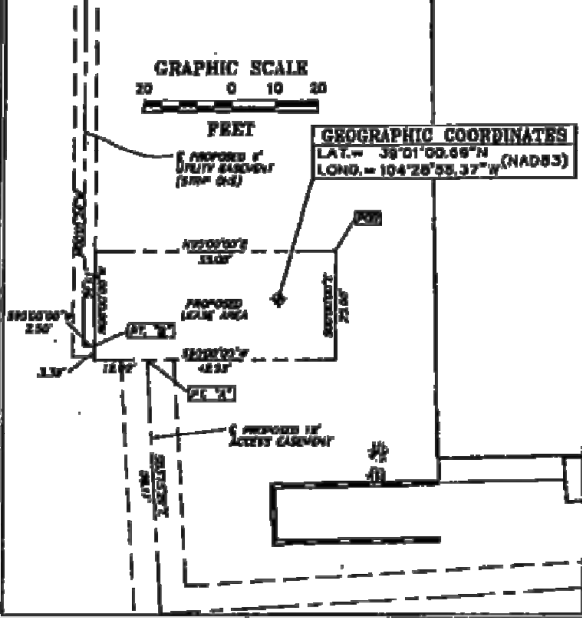
Basis of Bearings

THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (DMS), CLASSIFICATION: NATIONAL GEODETIC ACCURACY STANDARD, TWO, 5.0 on + 1:10,000

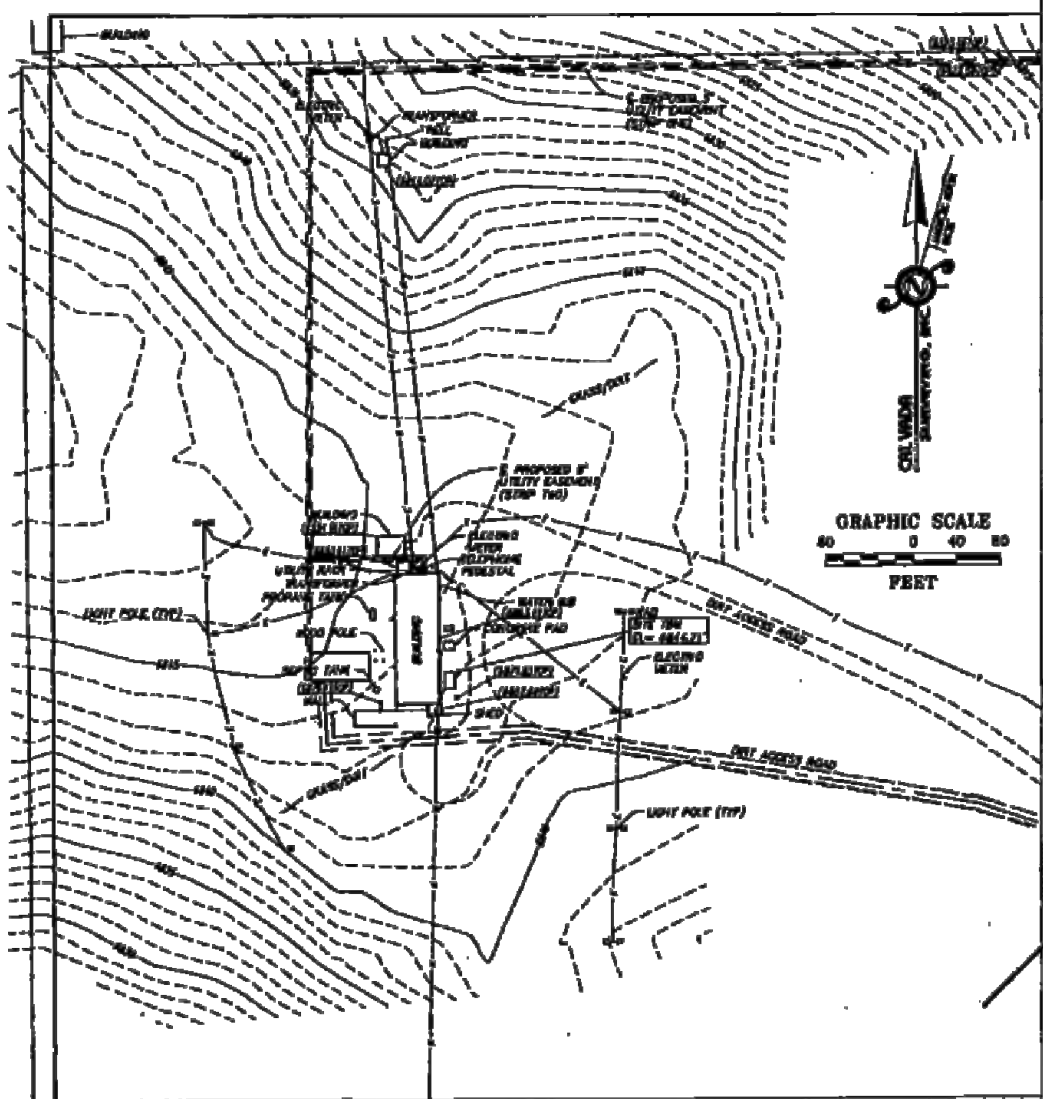
Bench Mark

NAD83 CONTROL POINT "CHUCK", ELEVATION = 7138 FEET (QAD 84)

Lease Detail  
Scale: 1" = 20'



Site Detail  
Scale: 1" = 80'



Title Report

PREPARED BY FRANK BAUGH, INC.  
ORDER NO: 1001008  
OFFICIAL DATE: OCTOBER 18, 2011

Legal Description

A PORTION OF THE SOUTH HALF OF SECTION 7, TOWNSHIP 12 SOUTH, RANGE 63 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO ALSO BEING A PORTION OF THAT TRACT RECORDED MAY 13, 1978 IN BOOK 2028 AT PAGE 158 OF THE RECORDS OF SAID COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTHEAST CORNER OF SAID SECTION 7, SAID POINT OF BEGINNING ALSO BEING THE MOST EASTERLY, SOUTHEAST CORNER OF "LAUNCH PAD ESTATES" AS RECORDED IN PLAT BOOK 5-5 AT PAGE 58 OF THE RECORDS OF SAID COUNTY, (THE FOLLOWING TWO (2) COURSES ARE ALONG THE NORTHERLY AND EASTERLY BOUNDARY OF SAID "LAUNCH PAD ESTATES"); (1) THENCE NORTH 88 DEGREES 40 MINUTES 02 SECONDS WEST, A DISTANCE OF 1302.05 FEET; (2) THENCE NORTH 00 DEGREES 00 MINUTES 20 SECONDS WEST, A DISTANCE OF 1302.81 FEET; THENCE SOUTH 89 DEGREES 32 MINUTES 48 SECONDS EAST, A DISTANCE OF 1301.34 FEET; THENCE SOUTH 00 DEGREES 00 MINUTES 20 SECONDS EAST, A DISTANCE OF 1301.34 FEET ALONG THE EAST LINE OF SAID SECTION 7 TO THE POINT OF BEGINNING, EXCEPT THAT PORTION PLATTED TO LONGHORN ACRES SUBDIVISION, COUNTY OF EL PASO, STATE OF COLORADO.

Assessor's Parcel No.

387000007

Easements

TO MEMORANDUM OF OPTION AND LAND LEASE AGREEMENT BY AND BETWEEN LONGHORN ACRES (LHA) & CATTLE LLC, A COLORADO LIMITED LIABILITY COMPANY AND VENTURE WIRELESS (VW) LLC D/B/A VENTURE WIRELESS, RECORDED JULY 21, 2010 AT RECEPTION NO. 210098004, (OPTION SUBJECT PROPERTY AND IS SUBJECT TO BIDDING).

Lease Area/Access & Utility Easements

LEASE AREA

BEING A LEASE AREA WITHIN A PORTION OF THE SOUTHEAST QUARTER OF SECTION 7, TOWNSHIP 12 SOUTH, RANGE 63 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCED AT THE EAST QUARTER CORNER OF SAID SECTION 7, THENCE ALONG THE EAST LINE OF SAID SECTION 7, 800.34 FEET; THENCE SOUTH 89°32'48", 1051.18 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 89°32'48", 2500 FEET; THENCE SOUTH 89°32'48", 42.06 FEET TO A POINT HEREINAFTER REFERRED TO AS POINT "A"; THENCE CONTINUING SOUTH 89°32'48", 12.02 FEET; THENCE SOUTH 89°32'48", 3.38 FEET TO A POINT HEREINAFTER REFERRED TO AS POINT "B"; THENCE CONTINUING SOUTH 89°32'48", 21.81 FEET; THENCE SOUTH 89°32'48", 65.00 FEET TO THE POINT OF BEGINNING.

CONTAINING 1275 SQ. FT. OR GREATER ACRES MORE OR LESS.

ACCESS EASEMENT

BEING A STRIP OF LAND 12.00 FEET IN WIDTH WITHIN A PORTION OF THE SOUTHEAST QUARTER OF SECTION 7, TOWNSHIP 12 SOUTH, RANGE 63 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, BEING 6.00 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CONTIGUOUS:

BEGINNING AT POINT "A" AS DESCRIBED ABOVE, THENCE SOUTH 89°32'48", 58.11 FEET; THENCE SOUTH 89°32'48", 1051.18 FEET; THENCE SOUTH 89°32'48", 419.29 FEET; THENCE SOUTH 89°32'48", 1051.18 FEET; THENCE SOUTH 89°32'48", 403.19 FEET; THENCE SOUTH 89°32'48", 71.88 FEET TO THE END OF SAID STRIP OF LAND.

UTILITY EASEMENTS

BEING TWO STRIPS OF LAND 3.00 FEET IN WIDTH WITHIN A PORTION OF THE SOUTHEAST QUARTER OF SECTION 7, TOWNSHIP 12 SOUTH, RANGE 63 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, BEING 2.50 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CONTIGUOUS:

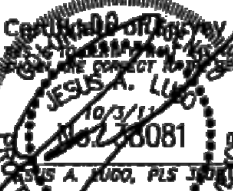
(STRIP ONE)

BEGINNING AT POINT "B" AS DESCRIBED ABOVE, THENCE SOUTH 89°32'48", 1051.18 FEET TO A POINT HEREINAFTER REFERRED TO AS POINT "C"; THENCE CONTINUING SOUTH 89°32'48", 419.29 FEET; THENCE SOUTH 89°32'48", 1051.18 FEET; THENCE SOUTH 89°32'48", 403.19 FEET; THENCE SOUTH 89°32'48", 71.88 FEET TO THE END OF SAID STRIP OF LAND.

(STRIP TWO)

BEGINNING AT POINT "B" AS DESCRIBED ABOVE, THENCE SOUTH 89°32'48", 1051.18 FEET; THENCE SOUTH 89°32'48", 419.29 FEET; THENCE SOUTH 89°32'48", 1051.18 FEET; THENCE SOUTH 89°32'48", 403.19 FEET; THENCE SOUTH 89°32'48", 71.88 FEET TO THE END OF SAID STRIP OF LAND.

BOUNDARIES OF SAID STRIPS OF LAND ARE TO BE LINED AND/OR SURVEYED TO PREVENT GAPS AND/OR OVERLAPS.



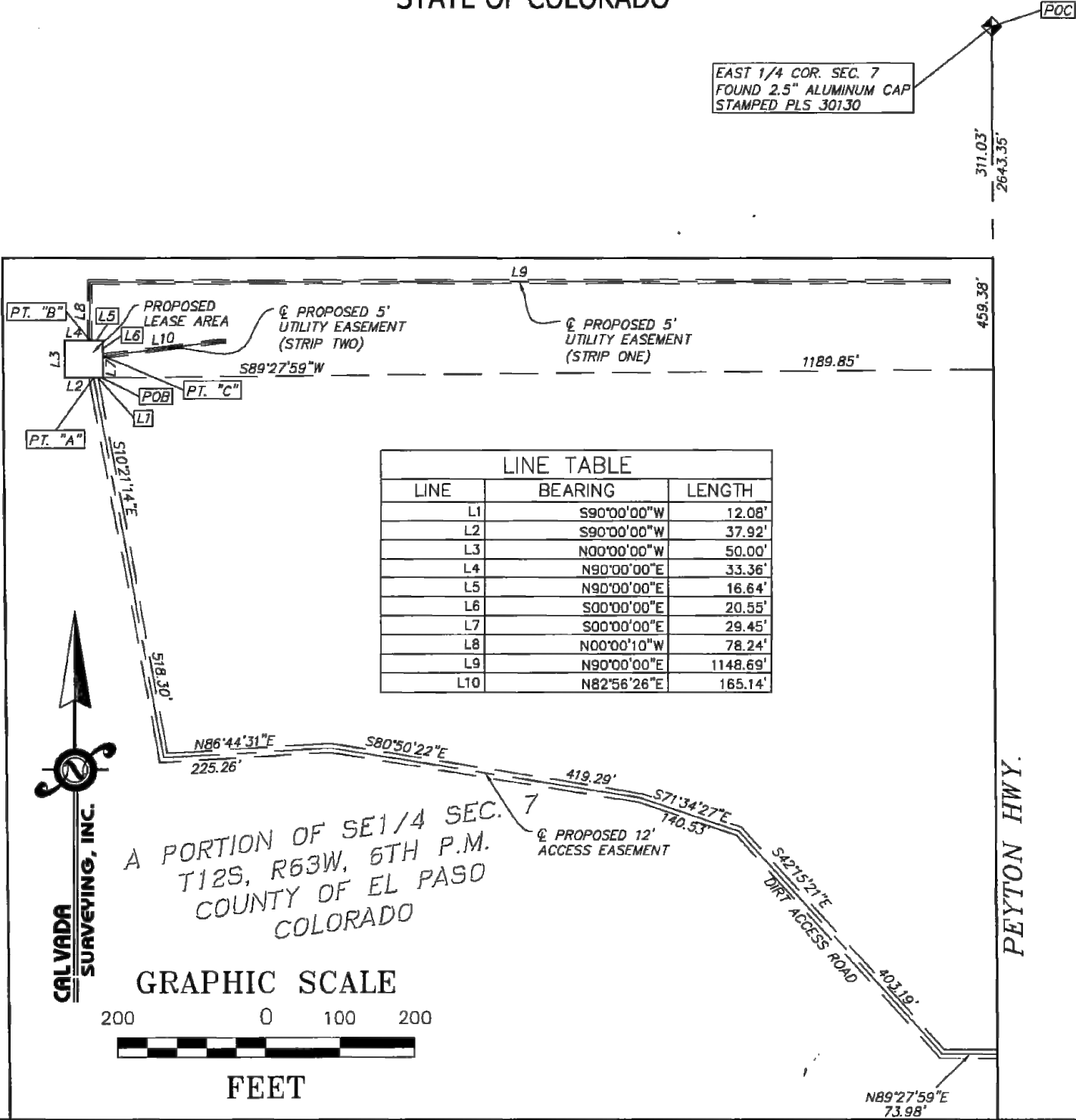
THIS SURVEY DOES NOT REPRESENT A BOUNDARY SURVEY OF THE LAND'S PROPERTY.

CSPEYTON

12500 PEYTON HWY.  
PEYTON, CO. 80801  
COUNTY OF EL PASO  
TOPOGRAPHIC  
SURVEY

LS1

LEASE EXHIBIT  
PORTION SE1/4, SECTION 7  
T12S, R63W, 6TH P.M.  
COUNTY OF EL PASO  
STATE OF COLORADO

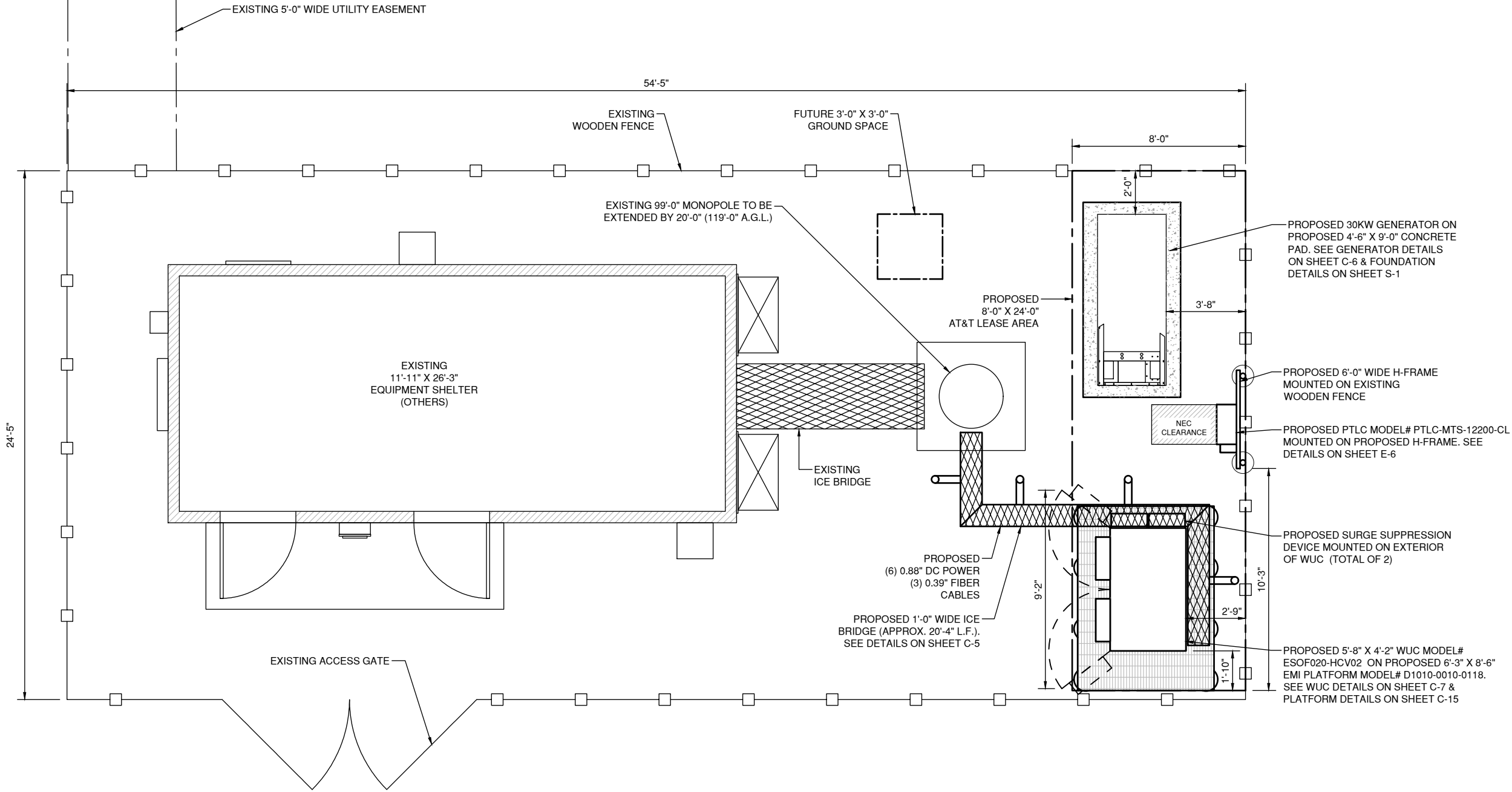


Last Saved On: 4-08-10 At: 11:22am As: N:\Projects\2010 Projects\10101-CSP PEYTON\dwg\10101-EXHIBIT CSP PEYTON Br. iustin

CSP PEYTON	12950 PEYTON HWY. PEYTON, CO. 80831 COUNTY OF EL PASO
SHEET 1 OF 1	
JOB NO. 10101 DATE: 4/8/10 SCALE: 1" = 200'	

# C-1





1 ENLARGED SITE PLAN  
SCALE: 3/16" = 1'-0"



PREPARED BY:

n e x i u s

NEXIUS SOLUTIONS, INC.  
2595 NORTH DALLAS PARKWAY  
SUITE 300  
FRISCO, TX 75034

CLIENT:



AT&T

Mobility

161 INVERNESS DR W, 2ND FLOOR  
ENGLEWOOD, COLORADO 80112

FOR CONSTRUCTION



DATE SIGNED: 10/15/20  
PE LICENSE RENEWAL: 10/31/21

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PACE ID:  
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ADDRESS:  
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PROJECTS:

LTE 1C 2C 3C 4C 5C 6C

DRAWN BY: RA	DATE: 01/02/20
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SHEET TITLE:  
ENLARGED SITE PLAN

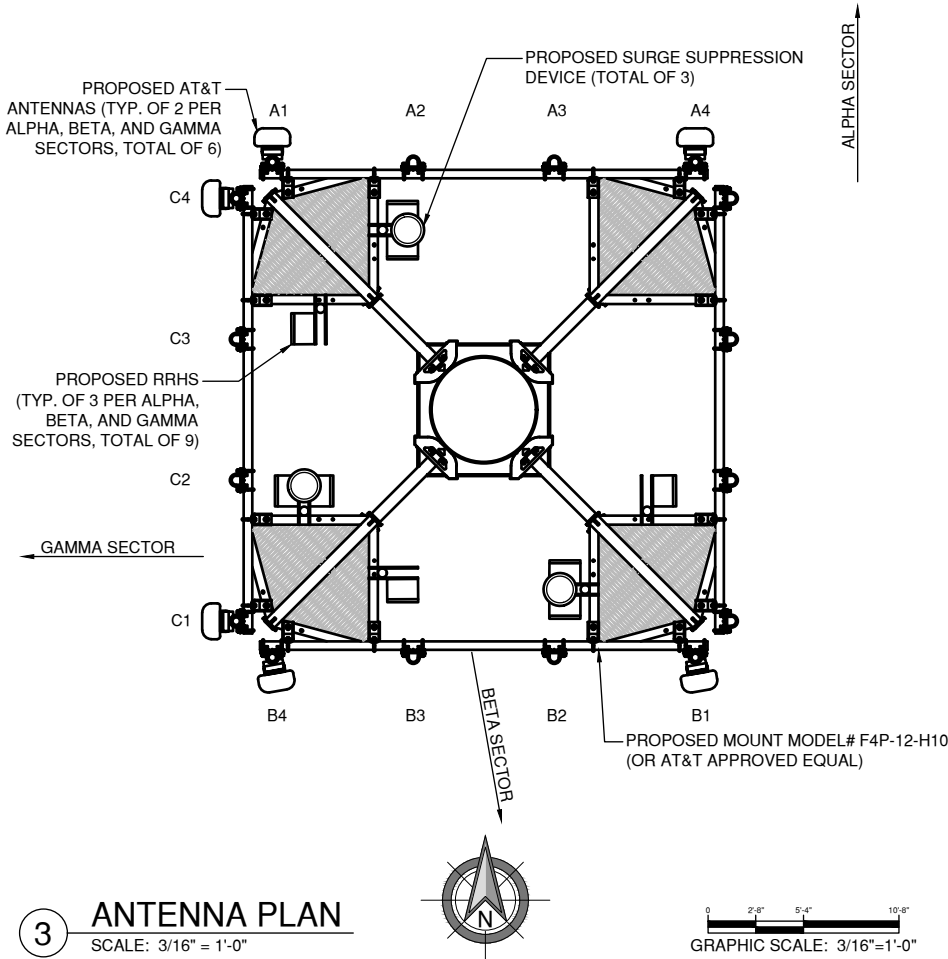
SHEET NUMBER:

C-2

PROPOSED								
SECTOR	ANTENNA POSITION	MODEL	TOP OF ANTENNA (AGL)	AZIMUTH	CABLES	RRH	SQUID	OTHER EQUIPMENT
ALPHA	A1	TPA65R-BU8D *	119'-0"	TBD	(6) 0.88" DC POWER (3) 0.39" FIBER (2) EW63	(1) NOKIA AHFIB * (1) NOKIA AHCA * (1) NOKIA AHLBA *	(3) DC9-48-60-24-8C-EV	(1) USX6-6W-6GR @65'-0" AGL (1) RM-DM-6 MONOPOLE MOUNT (1) 6'-0" ICE SHIELD
	A2	N/A						
	A3	N/A						
	A4	TPA65R-BU8D *						
BETA	B1	TPA65R-BU8D *	119'-0"	TBD	(6) 0.88" DC POWER (3) 0.39" FIBER (2) EW63	(1) NOKIA AHFIB * (1) NOKIA AHCA * (1) NOKIA AHLBA *	(3) DC9-48-60-24-8C-EV	(1) USX6-6W-6GR @65'-0" AGL (1) RM-DM-6 MONOPOLE MOUNT (1) 6'-0" ICE SHIELD
	B2	N/A						
	B3	N/A						
	B4	TPA65R-BU8D *						
GAMMA	C1	TPA65R-BU8D *	119'-0"	TBD	(6) 0.88" DC POWER (3) 0.39" FIBER (2) EW63	(1) NOKIA AHFIB * (1) NOKIA AHCA * (1) NOKIA AHLBA *	(3) DC9-48-60-24-8C-EV	(1) USX6-6W-6GR @65'-0" AGL (1) RM-DM-6 MONOPOLE MOUNT (1) 6'-0" ICE SHIELD
	C2	N/A						
	C3	N/A						
	C4	TPA65R-BU8D *						

NOTE:  
\* OR SIMILAR  
CONSTRUCTION NOTE:  
GC TO REFER TO RFDS FOR ANTENNA POSITION, ACCURATE AZIMUTH AND TIP AGL

1 RF SCHEDULE

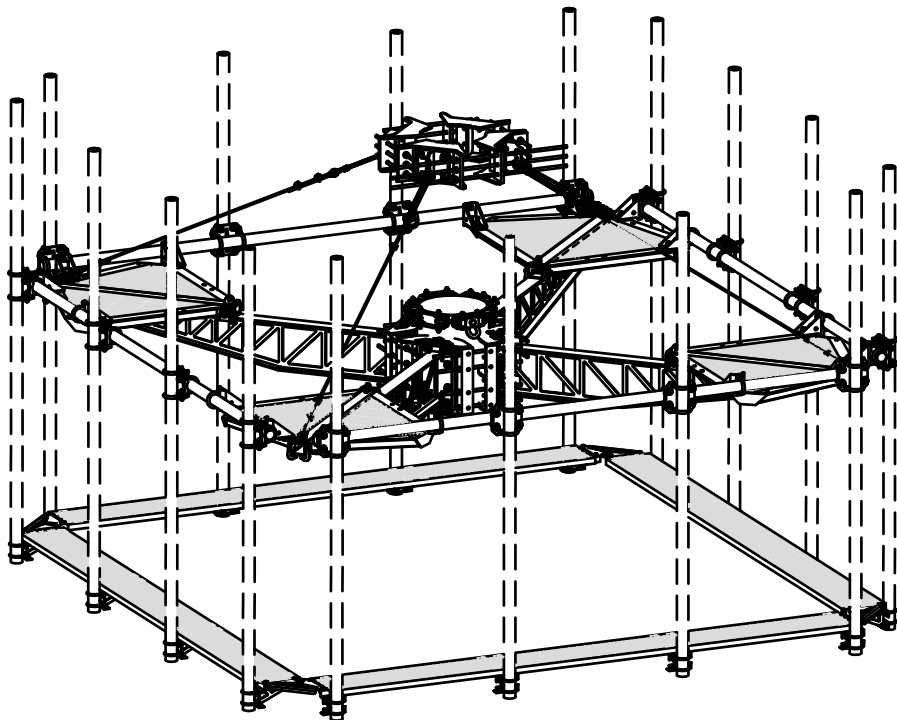


3 ANTENNA PLAN  
SCALE: 3/16" = 1'-0"

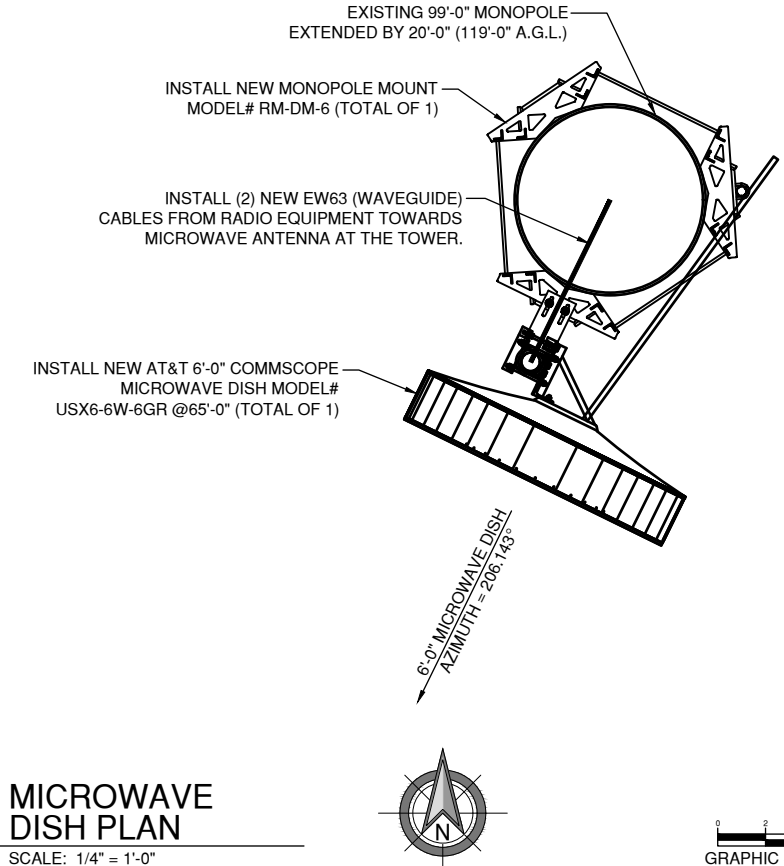
- NOTE:
- CONTRACTOR TO REFER TO FINAL RFDS FOR ALL RF DETAILS.
  - RET CABLE TO BE RUN TO 1ST CARRIER LTE RRH, AND DAISY CHAINED TO ALL ACTIVE SECTOR ANTENNAS.
  - REFER TO GENERAL NOTES FOR ANTENNA MOUNTING INFORMATION.
  - CONTRACTOR TO REFER TO RFDS FOR CROSS-SECTOR REDUNDANCY REQUIREMENTS.
  - DO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

NOTE:  
PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY THAT A STRUCTURE AND MOUNT ANALYSIS, DEPICTING THE LOADING SHOWN, HAS TO BE PERFORMED AND SHOWS A "PASS" OR "ACCEPTABLE" RATING. UNDER NO CIRCUMSTANCE WHAT SO EVER SHALL THE PROPOSED EQUIPMENT BE INSTALLED WITHOUT SAID STRUCTURAL ANALYSIS. IF SAID STRUCTURAL ANALYSIS REQUIRES THAT THE STRUCTURE AND/OR MOUNT BE MODIFIED, SUCH MODIFICATIONS SHALL BE COMPLETED PRIOR TO INSTALLATION OF THE PROPOSED EQUIPMENT.

MODEL# F4P-12-H10  
(OR AT&T APPROVED EQUAL)



4 ANTENNA MOUNT  
SCALE: N.T.S



2 MICROWAVE DISH PLAN  
SCALE: 1/4" = 1'-0"

PREPARED BY:

nexus

NEXIUS SOLUTIONS, INC.  
2595 NORTH DALLAS PARKWAY  
SUITE 300  
FRISCO, TX 75034

CLIENT:

AT&T  
Mobility  
161 INVERNESS DR W, 2ND FLOOR  
ENGLEWOOD, COLORADO 80112

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LTE 1C 2C 3C 4C 5C 6C	
DRAWN BY:	DATE:
RA	01/02/20
CHECKED BY:	DATE:
RA	10/15/20

SHEET TITLE: ANTENNA  
PLAN AND MOUNT  
SHEET NUMBER:

C-3

TOP OF  
EXISTING ANTENNAS (BY OTHERS)  
ELEV: 100'-0" A.G.L.

TOP OF EXISTING MONOPOLE  
ELEV: 99'-0" A.G.L.

C.L. OF  
EXISTING MW DISH (BY OTHERS)  
ELEV: 90'-0" A.G.L.

EXISTING 99'-0" MONOPOLE TO BE  
EXTENDED BY 20'-0" (119'-0" A.G.L.)

TOP OF EXISTING ICE SHIELD (BY OTHERS)  
ELEV: 30'-0" A.G.L.

C.L. OF EXISTING MW DISH (BY OTHERS)  
ELEV: 26'-0" A.G.L.

C.L. OF EXISTING MONOPOLE PORT  
ELEV: 7'-0" A.G.L.

EXISTING GRADE  
ELEV: 0'-0" A.G.L.

# 1 EXISTING TOWER ELEVATION

SCALE: 1/16" = 1'-0"

GRAPHIC SCALE: 1/16"=1'-0"

NOTE:  
CRANE HEIGHT: 140'-0" A.G.L.

TOP OF  
PROPOSED AT&T ANTENNAS  
ELEV: 119'-0" A.G.L.

TOP OF  
PROPOSED MONOPOLE EXTENSION  
ELEV: 119'-0" A.G.L.

TOP OF  
EXISTING ANTENNAS (BY OTHERS)  
ELEV: 100'-0" A.G.L.

TOP OF EXISTING MONOPOLE  
ELEV: 99'-0" A.G.L.

C.L. OF  
EXISTING MW DISH (BY OTHERS)  
ELEV: 90'-0" A.G.L.

C.L. OF  
PROPOSED AT&T MW DISH  
ELEV: 65'-0" A.G.L.

TOP OF EXISTING ICE SHIELD (BY OTHERS)  
ELEV: 30'-0" A.G.L.

C.L. OF EXISTING MW DISH (BY OTHERS)  
ELEV: 26'-0" A.G.L.

C.L. OF EXISTING MONOPOLE PORT  
ELEV: 7'-0" A.G.L.

EXISTING GRADE  
ELEV: 0'-0" A.G.L.

# 2 PROPOSED TOWER ELEVATION

SCALE: 1/16" = 1'-0"

GRAPHIC SCALE: 1/16"=1'-0"

NOTE:  
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, PRIOR TO THE ONSET OF CONSTRUCTION, THAT THE SUPPORTING STRUCTURE(S) AND MOUNTING SYSTEM(S) HAVE BEEN DEEMED STRUCTURALLY ADEQUATE BY A LICENSED PROFESSIONAL ENGINEER TO SUPPORT THE EXISTING AND PROPOSED EQUIPMENT AND ASSOCIATED CONSTRUCTION LOADS, INCLUDING BUT NOT LIMITED TO THOSE DEPICTED, HEREIN. THE CONTRACTOR SHALL ASSUME THE FULL-LIABILITY AND RISK ASSOCIATED WITH THE INSTALLATION OF THE PROPOSED EQUIPMENT AND/OR APPURTENANCES IF PERFORMED WITHOUT SAID PASSING STRUCTURAL ANALYSIS OR EVALUATION. IF THE RESULT OF THE ANALYSIS REQUIRES THE STRUCTURE BE STRENGTHENED OR MODIFIED; SUCH MODIFICATIONS SHALL BE PROPERLY INSTALLED AND COMPLETED PRIOR TO THE ONSET OF CONSTRUCTION.

PROPOSED SURGE SUPPRESSION  
DEVICE (TOTAL OF 3)

PROPOSED AT&T ANTENNAS (TYP.  
OF 2 PER ALPHA, BETA, AND GAMMA  
SECTORS, TOTAL OF 6)

PROPOSED MOUNT MODEL# F4P-12-H10  
(OR AT&T APPROVED EQUAL)

11'-0"

INSTALL (1) NEW ICE SHIELD MODEL# ISMD6  
ABOVE PROPOSED AT&T MICROWAVE DISH, ONTO  
(1) NEW MONOPOLE MOUNT MODEL# RM-DM-6.  
SEE DETAILS ON SHEET C-11, C-13 & C-14

INSTALL (1) NEW AT&T 6'-0" COMMSCOPE  
MICROWAVE DISH MODEL# USX6-6W-6GR @65'-0"  
ON (1) NEW MONOPOLE MOUNT MODEL# RM-DM-6

EXISTING 99'-0" MONOPOLE  
EXTENDED BY 20'-0" (119'-0" A.G.L.)

PROPOSED  
(6) 3/4" DC POWER  
(3) 3/8" FIBER  
(4) 2 1/4" INNER DUCT  
CABLES

PROPOSED  
ICE BRIDGE

PROPOSED 5'-8" X 4'-2"  
WUC MODEL#  
ESOF020-HCV02.  
SEE WUC DETAILS ON  
SHEET C-7

9'-0"  
MIN

PREPARED BY:

n e x i u s

NEXIUS SOLUTIONS, INC.  
2595 NORTH DALLAS PARKWAY  
SUITE 300  
FRISCO, TX 75034

CLIENT:



161 INVERNESS DR W, 2ND FLOOR  
ENGLEWOOD, COLORADO 80112

FOR CONSTRUCTION



DATE SIGNED: 10/15/20  
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2	10/15/20	REVISED CD	RA

SITE INFORMATION:

SITE NAME:  
NSB-CO.BDN\_ADD\_4591\_COL02148\_PeyTON

SITE NUMBER:  
COL02148

FA LOCATION CODE:  
12871723

PAGE ID:  
MRUTH029076

ADDRESS:  
12960 N PEYTON HWY  
PEYTON, CO 80831

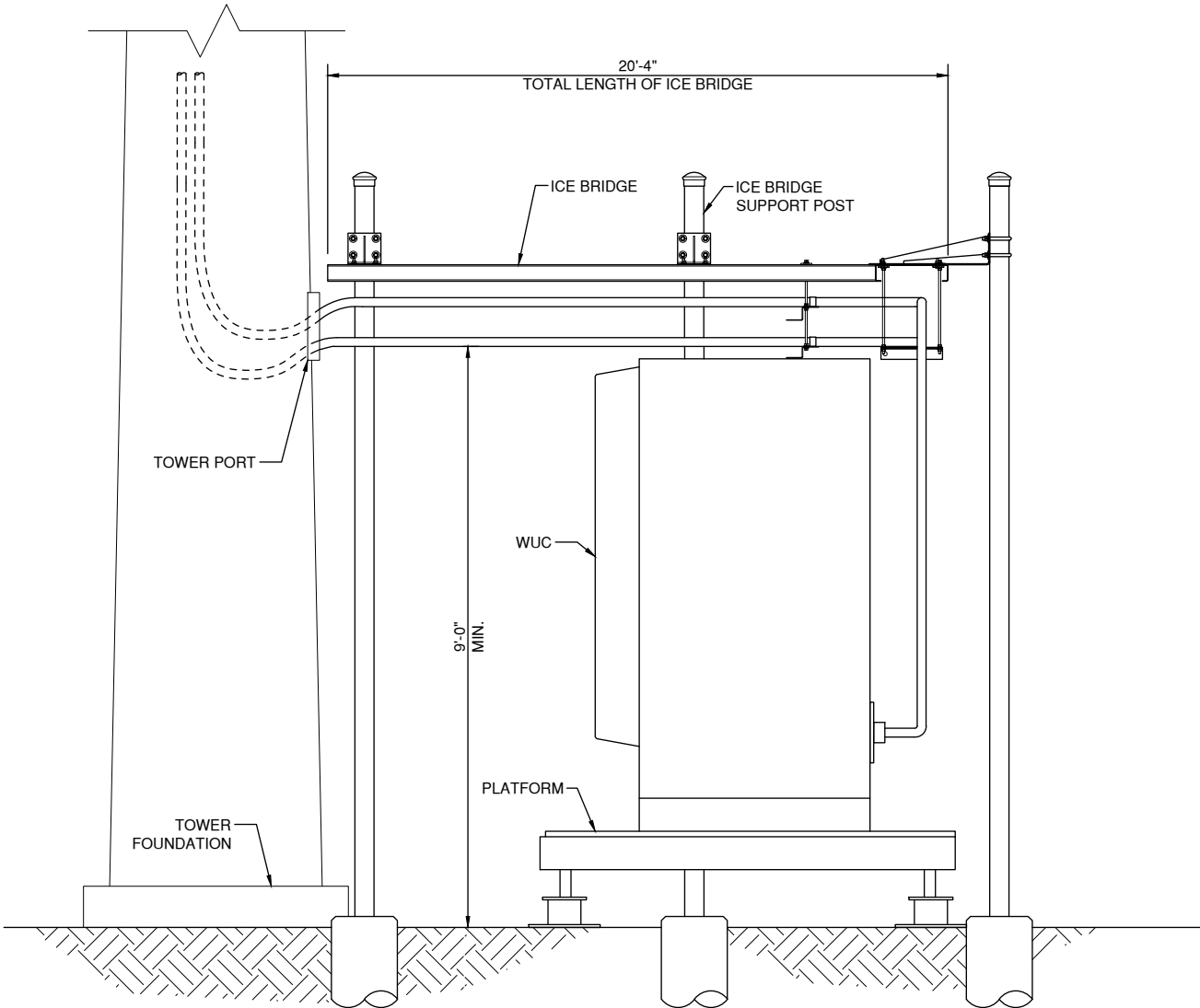
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DRAWN BY: RA	DATE: 01/02/20
CHECKED BY: RA	DATE: 10/15/20

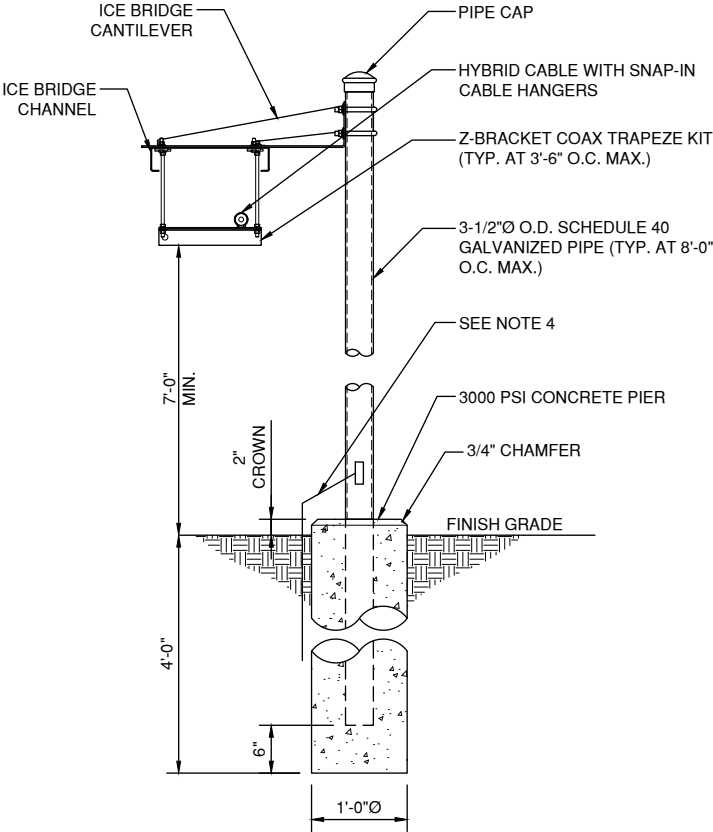
SHEET TITLE:  
**TOWER ELEVATION**

SHEET NUMBER:

C-4



1 ICE BRIDGE DETAIL  
SCALE: NTS



2 ICE BRIDGE  
SUPPORT POST DETAIL  
SCALE: NTS

NOTE:

1. ALL PARTS SHOWN ARE FROM SITE PRO, OR APPROVED EQUAL.
2. ALL STRUCTURAL STEEL & BOLTS ARE TO BE HOT DIPPED/RIGID GALVANIZED OR STAINLESS STEEL.
3. ALL BOLTS TO BE FURNISHED W/ WASHERS & NUTS.
4. #2 AWG SOLID TINNED COPPER WIRE IN 5/16" FLEXIBLE STEEL CONDUIT, CRIMPED EVERY 6" TO 8" WITH CORROSION INHIBITOR. SILICONE SEAL AT OPENING. ATTACH GROUND WIRE TO GROUNDING SYSTEM.

PREPARED BY:

**nexus**

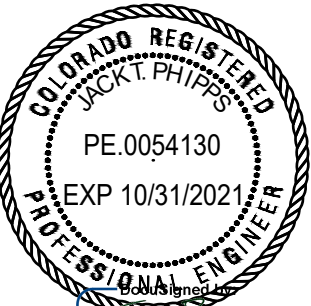
NEXIUS SOLUTIONS, INC.  
2595 NORTH DALLAS PARKWAY  
SUITE 300  
FRISCO, TX 75034

CLIENT:



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ENGLEWOOD, COLORADO 80112

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PROJECTS:	
LTE 1C 2C 3C 4C 5C 6C	
DRAWN BY:	DATE:
RA	01/02/20
CHECKED BY:	DATE:
RA	10/15/20

SHEET TITLE:  
**ICE BRIDGE DETAILS**  
SHEET NUMBER:

**C-5**



SD030 | 2.2L | 30 kW  
INDUSTRIAL DIESEL GENERATOR SET  
EPA Certified Stationary Emergency



Standby Power Rating  
30 kW, 38 kVA, 60 Hz

Prime Power Rating\*  
27 kW, 34 kVA, 60 Hz

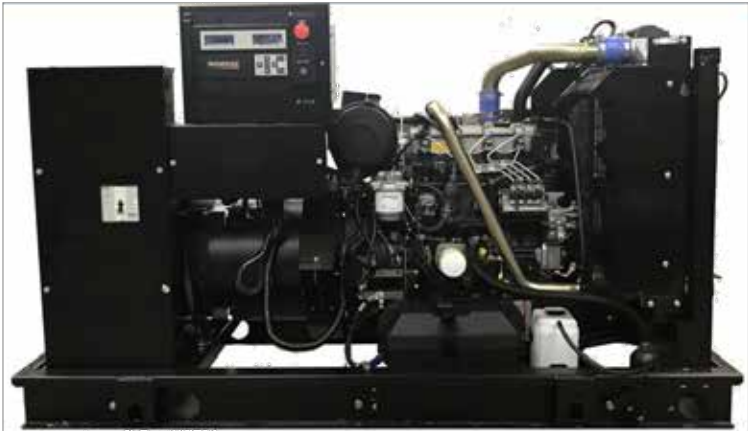


Image used for illustration purposes only

Codes and Standards

Not all codes and standards apply to all configurations. Contact factory for details.

- UL2200, UL508, UL489, UL142
- CSA C22.2
- BS5514 and DIN 6271
- SAE J1349
- NFPA 37, 70, 99, 110
- NEC700, 701, 702, 708
- ISO 3046, 7637, 8528, 9001
- NEMA ICS10, MG1, 250, ICS6, AB1
- ANSI C62.41

Powering Ahead

For over 50 years, Generac has provided innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

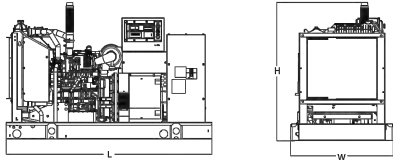
Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

SD030 | 2.2L | 30 kW  
INDUSTRIAL DIESEL GENERATOR SET  
EPA Certified Stationary Emergency

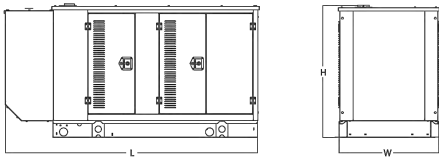


DIMENSIONS AND WEIGHTS\*



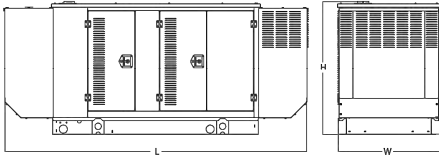
OPEN SET (Includes Exhaust Flex)

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	-	76.0 (1,930) x 37.4 (950) x 44.8 (1,138)	1,641 (745)
19	54 (204)	76.0 (1,930) x 37.4 (950) x 57.8 (1,468)	2,121 (963)
47	132 (501)	76.0 (1,930) x 37.4 (950) x 69.8 (1,773)	2,351 (1,067)
75	211 (799)	76.0 (1,930) x 37.4 (950) x 81.8 (2,078)	2,560 (1,162)
107	300 (1,136)	92.9 (2,360) x 37.4 (950) x 81.8 (2,078)	2,623 (1,190)



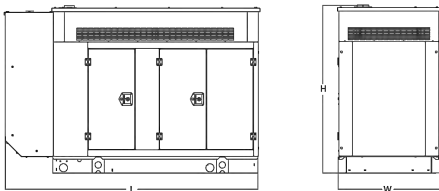
WEATHER PROTECTED ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)	
			Enclosure Only	
No Tank	-	94.8 (2,409) x 38.0 (965) x 49.5 (1,258)	Steel	Aluminum
19	54 (204)	94.8 (2,409) x 38.0 (965) x 62.5 (1,588)	372 (170)	241 (110)
47	132 (501)	94.8 (2,409) x 38.0 (965) x 74.5 (1,893)		
75	211 (799)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)		
107	300 (1,136)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)		



LEVEL 1 ACOUSTIC ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)	
			Enclosure Only	
No Tank	-	112.5 (2,857) x 38.0 (965) x 49.5 (1,258)	Steel	Aluminum
19	54 (204)	112.5 (2,857) x 38.0 (965) x 62.5 (1,582)	505 (230)	338 (154)
47	132 (501)	112.5 (2,857) x 38.0 (965) x 74.5 (1,893)		
75	211 (799)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)		
107	300 (1,136)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)		



LEVEL 2 ACOUSTIC ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)	
			Enclosure Only	
No Tank	-	94.8 (2,407) x 38.0 (965) x 61.1 (1,551)	Steel	Aluminum
19	54 (204)	94.8 (2,407) x 38.0 (965) x 74.1 (1,881)	510 (232)	341 (155)
47	132 (501)	94.8 (2,407) x 38.0 (965) x 86.1 (2,186)		
75	211 (799)	94.8 (2,407) x 38.0 (965) x 98.1 (2,491)		
107	300 (1,136)	94.8 (2,407) x 38.0 (965) x 98.1 (2,491)		

\* All measurements are approximate and for estimation purposes only. Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.

PREPARED BY:

n e x i u s

NEXIUS SOLUTIONS, INC.  
2595 NORTH DALLAS PARKWAY  
SUITE 300  
FRISCO, TX 75034

CLIENT:



FOR CONSTRUCTION



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FA LOCATION CODE:  
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PACE ID:  
MRUTH029076  
ADDRESS:  
12960 N PEYTON HWY  
PEYTON, CO 80831

PROJECTS:	
LTE 1C 2C 3C 4C 5C 6C	
DRAWN BY: RA	DATE: 01/02/20
CHECKED BY: RA	DATE: 10/15/20

SHEET TITLE:  
GENERATOR DETAILS  
SHEET NUMBER:

C-6



# ESOF020-HCV02

## 2-Bay Walk Upto Cabinet (WUC)

### Product Features

- Sealed Multi-bay Equipment and Power Compartment
- Sealed Battery Compartment
- Corrosion Resistant Aluminum enclosure
- Thermo-siphon HEX cooling
- R6 Thermal Insulation Material
- Attachment Rails for AC Load Center
- Rear Access Hatches
- Optional Dual GPS Antenna Mount



Smarter. Greener. Together.

www.deltaww.com



Specifications

Model	ESOF020-HCV02 Walk Upto Cabinet (WUC)
1. General	
System cooling capacity	2.5kW Equip Heat Load with Equip Inlet <55C @ 46C ambient
Dimensions (W x H x D)	68W" x 42"D (50" including HEX) x 80"H (add 6" plinth)
Protection class	NEMA4
Door latches	3 point latches (can be pad locked)
Ground bar	2ea 10-positions
Lifting Mechanism	4 lifting brackets
Equipment Compartment	Bay 1 – 23", 19RU for DC Power System and PDU Bay 2 – 23", 44RU for equipment
Battery Compartment	Shelves for 3 strings batteries, designed for: GNB Marathon M12V180FT Energys SBS190F Energys SBS170F
Weight	1860 lbs (Batteries, Power System and Load Equipment excluded)
Materials:	Enclosure Aluminum AL5052, Inner frames Galvanized steel
Finish	Powder Paint RAL7032
Safety	cULus LISTED pending
2. Environment	
Operating temperature	-40°C to +50°C (-40°F to +122°F)
Storage temperature	-40°C to +75°C (-40°F to +158°F)
Acoustics	65 dBA @ 40C equipment inlet, 75 dBA @ 55C equipment inlet
Humidity (relative)	95%, non-condensing (Max.)
3. Thermal management	
Cooling system	Equipment compartment: 2 200W/"K Thermosiphon HEX
Heating system	Equipment compartment: 2 1500W DC heaters Battery compartment: 1 1500W DC heater
4. Equipment	
Arranged for third-party equipment:	AC Load Center (not provided) DC Power System (not provided) Batteries (not provided)
Cable Entry:	
AC Cable	(2) Trade Size 2" ports
Bottom Cable	Arranged for (3) Roxtec EzEntry 24/24 multi-port (not provided) Arranged for (3) Roxtec EzEntry 16/16 multi-port (not provided)
Lower Rear	(4) Trade Size 3" ports
Upper Rear	Arranged for (1) Valmont E575 port kit (not provided)
5. Optional Items	
Optional items	NEQ.20115 – Dual GPS Antenna Mast Kit (Delta 3798100742-S) NEQ.20114 – Wave Guide Top Plate (Valmont E575)
6. Ordering information	
System	NEQ.20212– Cabinet 2-Bay 2-HEX (Delta ESOF020-HCV02)

Delta Group Website:  
www.deltaww.com

Product Website:  
www.deltapowersolutions.com

United States of America & Canada  
Delta Electronics (USA) Inc.  
2925 E. Plano Parkway  
Plano, Texas 75074

Sales  
Bryan Kearse  
Office 919-767-3836  
Cell 919-800-7107  
Bryan.Kearse@deltaww.com

Hari Subramanian  
Cell 214-415-4977  
Hari.Subramanian@deltaww.com

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Field Support  
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(877-335-8208 option 3)  
DEUSTPS.Support@deltaww.com

Installation Services  
DEUSTPS.Services@deltaww.com

Orders  
DEUSTPS.Orders@deltaww.com

Sales  
DEUSTPS.Sales@deltaww.com

RMA  
DEUSTPS.RMA@deltaww.com

\*All specifications are subject to change without prior notice.

PREPARED BY:

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2595 NORTH DALLAS PARKWAY  
SUITE 300  
FRISCO, TX 75034

CLIENT:



AT&T  
Mobility

161 INVERNESS DR W, 2ND FLOOR  
ENGLEWOOD, COLORADO 80112

FOR CONSTRUCTION



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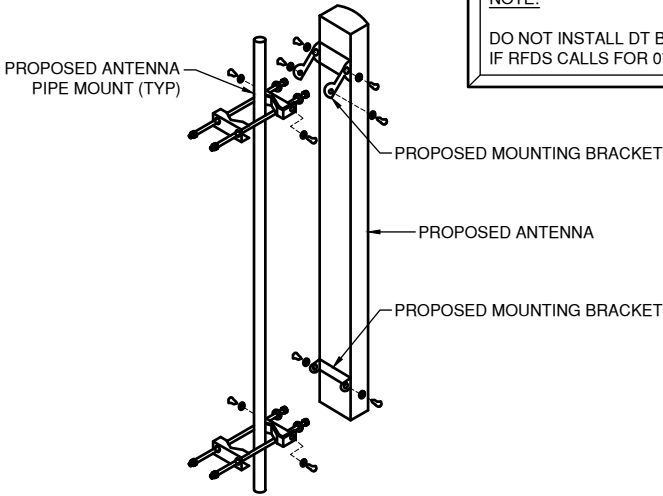
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DRAWN BY: RA	DATE: 01/02/20
CHECKED BY: RA	DATE: 10/15/20

SHEET TITLE:  
WUC DETAILS

SHEET NUMBER:



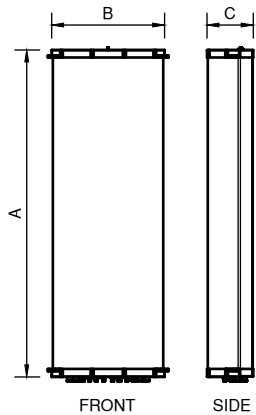


NOTE:

DO NOT INSTALL DT BRACKETS  
IF RFDS CALLS FOR 0" MDT.

### 1 ANTENNA MOUNTING DETAIL

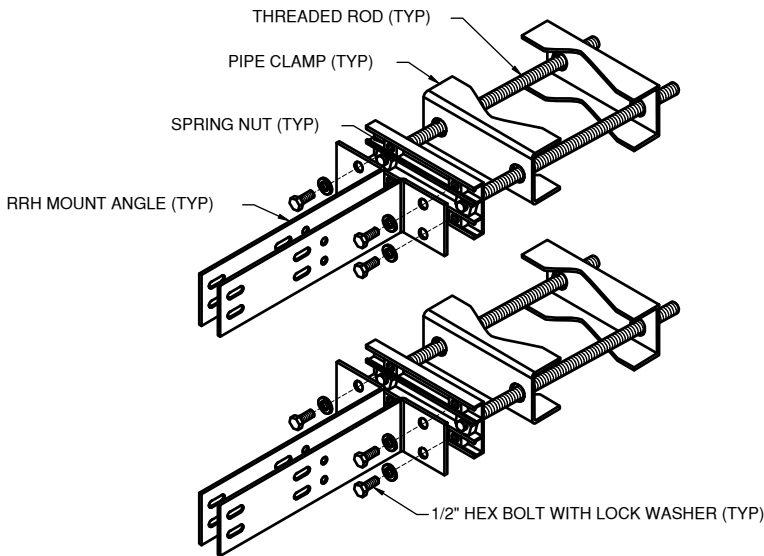
SCALE: N.T.S



### 2 ANTENNA DETAIL

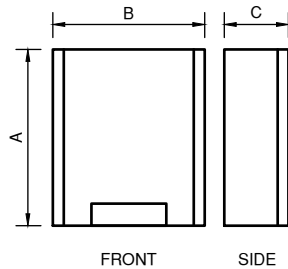
SCALE: N.T.S

ANTENNA SPECIFICATIONS				
MODEL	LENGTH (A)	WIDTH (B)	DEPTH (C)	WEIGHT (lb)
CCI - TPA65R-BU8D	96.0"	21"	7.8"	87.5



### 3 RRU MOUNTING DETAIL

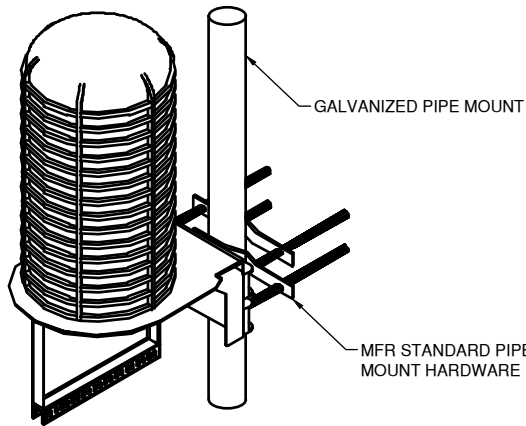
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### 4 RRU DETAIL

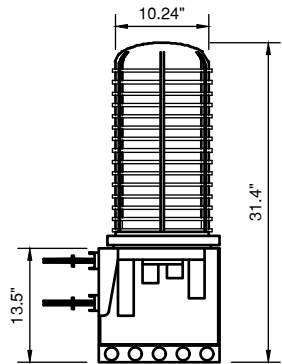
SCALE: N.T.S

RADIO SPECIFICATIONS				
MODEL	LENGTH (A)	WIDTH (B)	DEPTH (C)	WEIGHT (lb)
NOKIA - AHFIB	28.7"	15.4"	9.4"	88.2
NOKIA - AHLBA	28.7"	15.4"	9.4"	101.4
NOKIA - AHCA	13.3"	11.6"	6.5"	35.3



### 5 SQUID MOUNTING DETAIL

SCALE: N.T.S



### 6 SQUID DETAIL

SCALE: N.T.S

DC9-48-60-24-8C-EV						
NOMINAL OPERATING VOLTAGE	NOMINAL DISCHARGE CURRENT	MAXIMUM IMPULSE CURRENT	MAXIMUM CONTINUOUS OPERATING VOLTAGE	VOLTAGE PROTECTION RATING	WIND LOADING	TOTAL WEIGHT (LB)
48 VDC	20 kA 8/20μ	12.5 kA 10/350μ	60 VDC	330 V	150 MPH SUSTAINED (105.7 LBS) 195 MPH GUST (213.6 LBS)	26.2

### EW63



EW63, HELIAX® Standard Elliptical Waveguide, 5.925–7.125 GHz, black PE jacket

#### Product Classification

Brand HELIAX®  
Product Type Elliptical waveguide

#### Construction Materials

Jacket Material PE  
Conductor Material Corrugated copper  
Jacket Color Black

#### Dimensions

Cable Volume 855.0 L/km | 9.2 ft³/kft  
Cable Weight 0.76 kg/m | 0.51 lb/ft  
Diameter Over Jacket (E Plane) 51.10 mm | 2.01 in  
Diameter Over Jacket (H Plane) 29.50 mm | 1.16 in

#### Electrical Specifications

Operating Frequency Band 5.925 – 7.125 GHz  
eTE11 Mode Cutoff 4.001 GHz  
Group Delay at Frequency 126 ns/100 ft @ 6.775 GHz | 413 ns/100 m @ 6.775 GHz

#### Environmental Specifications

Installation Temperature -40 °C to +60 °C (-40 °F to +140 °F)  
Operating Temperature -55 °C to +85 °C (-67 °F to +185 °F)  
Storage Temperature -70 °C to +85 °C (-94 °F to +185 °F)

#### Mechanical Specifications

Maximum Twist 3.00 °/m | 1.00 °/ft  
Minimum Bend Radius, Multiple Bends (E Plane) 260.00 mm | 10.00 in  
Minimum Bend Radius, Multiple Bends (H Plane) 740.00 mm | 29.00 in  
Minimum Bend Radius, Single Bend (E Plane) 180.00 mm | 7.00 in  
Minimum Bend Radius, Single Bend (H Plane) 510.00 mm | 20.00 in

#### Note

Performance Note Values typical, unless otherwise stated

page 1 of 2  
September 20, 2019

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COMMScope®

### EW63

#### Standard Conditions

Attenuation, Ambient Temperature 24 °C | 75 °F  
Average Power, Ambient Temperature 40 °C | 104 °F  
Average Power, Temperature Rise 42 °C | 76 °F

#### Return Loss/VSWR

Frequency Band 5.925–7.125 GHz  
VSWR 1.15  
Return Loss (dB) 23.10

\* VSWR/Return Loss indicated is for lengths up to 300 ft (91.4 m)

\* VSWR/Return Loss is guaranteed for factory-fit and typical for field-fit assemblies

\* Custom length performance: Call 828-324-2200 or 1-800-982-1708 (toll free), or your local CommScope representative

#### Attenuation

Frequency (GHz)	Attenuation (dB/100 ft)	Attenuation (dB/100 m)	Average Power (kW)	Group Velocity %
5.9	1.487	4.878	4.45	73.8
6.1	1.446	4.745	4.575	75.7
6.3	1.412	4.632	4.687	77.4
6.5	1.383	4.537	4.784	79
6.7	1.359	4.458	4.869	80.3
6.9	1.338	4.39	4.944	81.6
7.1	1.32	4.332	5.011	82.7

#### Regulatory Compliance/Certifications

Agency  
RoHS 2011/65/EU  
ISO 9001:2015  
China RoHS SJ/T 11364-2014  
Classification  
Compliant  
Designed, manufactured and/or distributed under this quality management system  
Below Maximum Concentration Value (MCV)



### 7 HELIAX ELLIPTICAL WAVEGUIDE

SCALE: N.T.S

PREPARED BY:

nexus

NEXIUS SOLUTIONS, INC.  
2595 NORTH DALLAS PARKWAY  
SUITE 300  
FRISCO, TX 75034

CLIENT:



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1	08/24/20	REVISED CD	RA
2	10/15/20	REVISED CD	RA

#### SITE INFORMATION:

SITE NAME:  
NSB-CO.BDN\_ADD\_4591\_COL02148\_Peyton  
SITE NUMBER:  
COL02148  
FA LOCATION CODE:  
12871723  
PACE ID:  
MRUTH029076  
ADDRESS:  
12960 N PEYTON HWY  
PEYTON, CO 80831

#### PROJECTS:

LTE 1C 2C 3C 4C 5C 6C

DRAWN BY: RA	DATE: 01/02/20
CHECKED BY: RA	DATE: 10/15/20

SHEET TITLE:  
EQUIPMENT DETAILS (1 OF 5)

SHEET NUMBER:

C-8

USX6-6W-6GR



1.8m | 6ft Sentinel® Ultra High Performance, Super High XPD Antenna, dual-polarized, 5.925 – 7.125 GHz, grey, CPR137G flange

Product Classification

Brand	Sentinel®
Product Type	Microwave antenna

General Specifications

Antenna Type	USX - Sentinel® Ultra High Performance, Super High XPD Antenna, dual-polarized
Diameter, nominal	1.8 m   6 ft
Packing	Standard pack
Radome Color	Gray
Radome Material	Fabric
Reflector Construction	One-piece reflector
Antenna Input	CPR137G
Antenna Color	Gray
Antenna Type	USX - Sentinel® Ultra High Performance, Super High XPD Antenna, dual-polarized
Diameter, nominal	1.8 m   6 ft
Polarization	Dual

Electrical Specifications

Operating Frequency Band	5.925 – 7.125 GHz
Beamwidth, Horizontal	1.8 °
Beamwidth, Vertical	1.8 °
Boresite Cross Polarization Discrimination (XPD)	40 dB
Cross Polarization Discrimination (XPD) Electrical Compliance	ETSI EN 302217 XPD Category 3
Electrical Compliance	ACMA FX03_6b, 6p7b   ETSI 302 217 Class 4   IC 3059A   IC 3064A   US FCC Part 101A
Front-to-Back Ratio	76 dB
Gain, Low Band	38.3 dBi
Gain, Mid Band	38.8 dBi
Gain, Top Band	39.3 dBi
Operating Frequency Band	5.925 – 7.125 GHz

USX6-6W-6GR

Radiation Pattern Envelope Reference (RPE)	7373
Return Loss	26.0 dB
VSWR	1.10

Electrical Specifications (Band 2)

Beamwidth, Horizontal	2.0 °
Beamwidth, Vertical	2.0 °
Gain, Mid Band	38.4 dBi
Operating Frequency Band	5.725 – 5.850 GHz

Mechanical Specifications

Fine Azimuth Adjustment	±15°
Fine Elevation Adjustment	±5°
Mounting Pipe Diameter	115 mm–120 mm   4.5 in–4.7 in
Net Weight	90 kg   198 lb
Side Struts, Included	1
Side Struts, Optional	1
Wind Velocity Operational	180 km/h   112 mph
Wind Velocity Survival Rating	200 km/h   124 mph

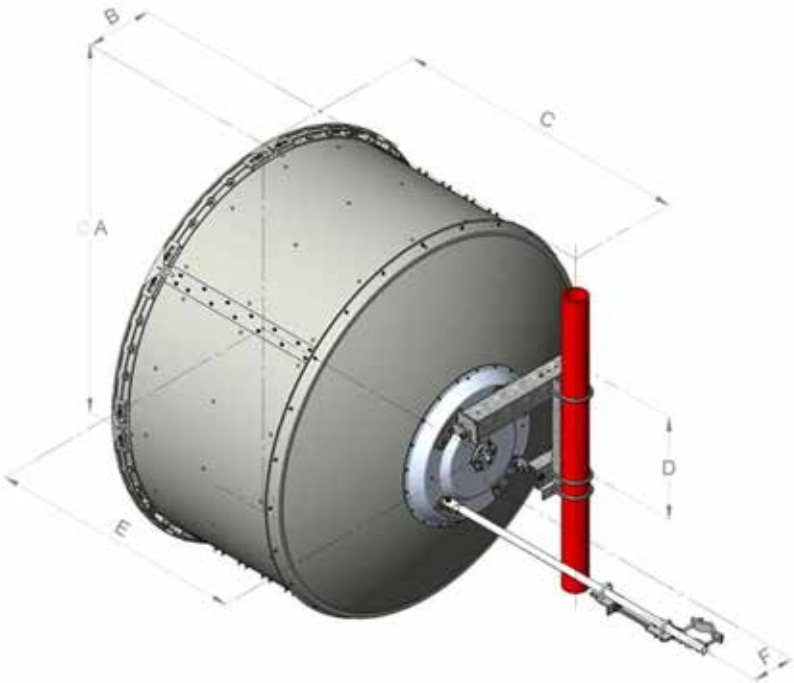
Wind Forces At Wind Velocity Survival Rating

Angle α for MT Max	-130 °
Axial Force (FA)	6960 N   1565 lbf
Force on Inboard Strut Side	6187 N   1391 lbf
Side Force (FS)	2049 N   461 lbf
Twisting Moment (MT)	4948 N-m   3649 ft lb
Weight with 1/2 in (12 mm) Radial Ice	291 kg   642 lb
Zcg with 1/2 in (12 mm) Radial Ice	689 mm   27 in
Zcg without Ice	498 mm   20 in



USX6-6W-6GR

Antenna Dimensions And Mounting Information

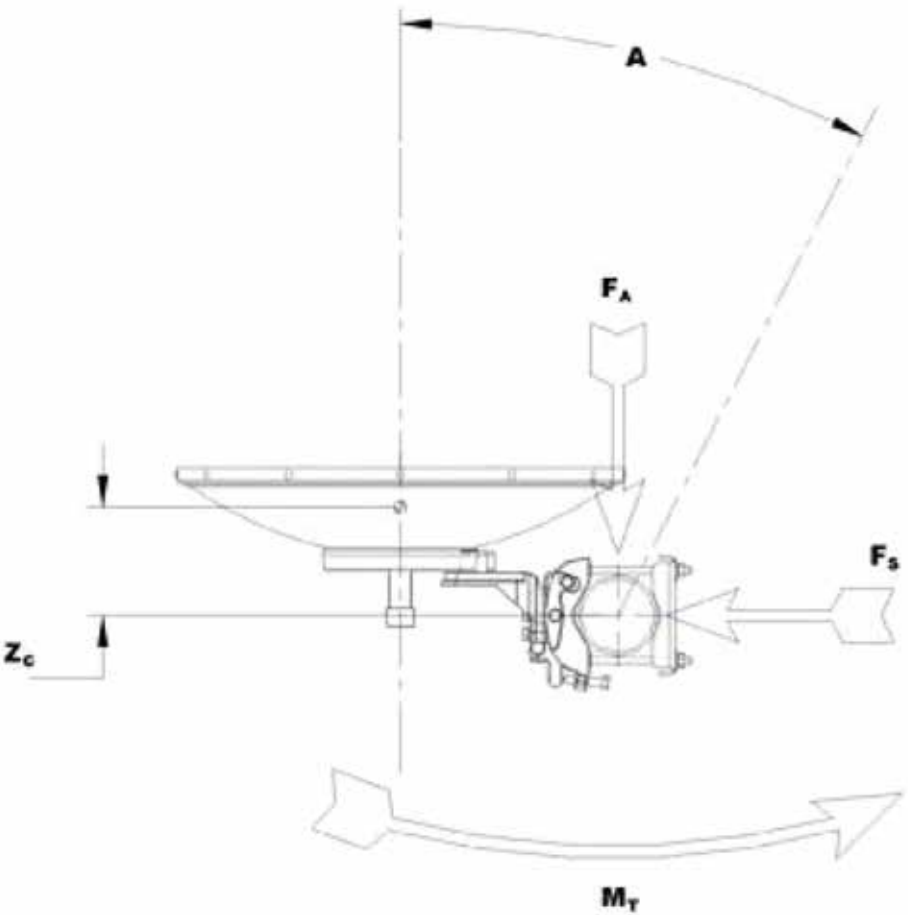


Dimensions in inches (mm)						
Antenna size, ft (m)	A	B	C	D	E	F
6 (1.8)	74.8 (1899)	13.4 (340)	59.8 (1520)	20.9 (530)	51.8 (1315)	8.4 (214)

Regulatory Compliance/Certifications

USX6-6W-6GR

Wind Forces At Wind Velocity Survival Rating Image

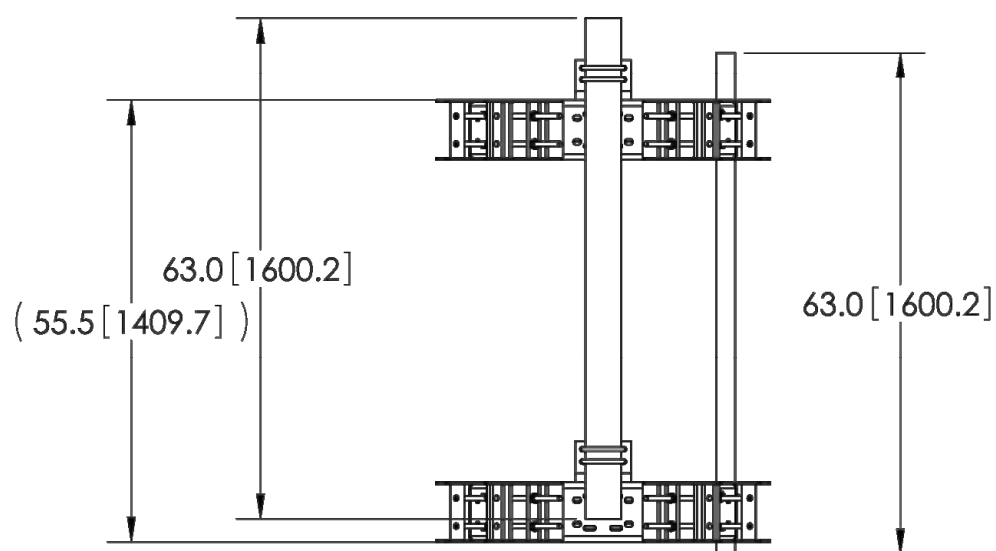
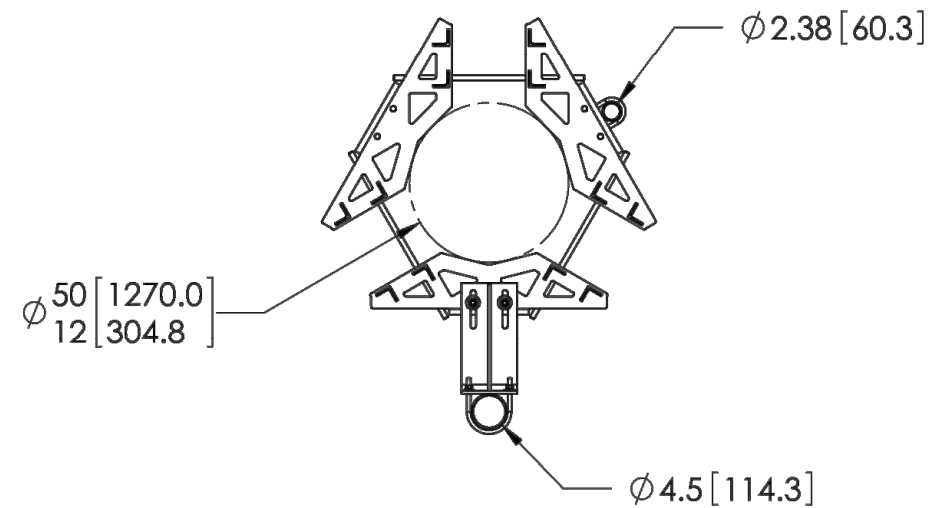


Packed Dimensions

Gross Weight, Packed Antenna	150.0 kg   330.7 lb
Height	2110.0 mm   83.1 in
Length	2000.0 mm   78.7 in
Volume	2.5 m³
Width	600.0 mm   23.6 in

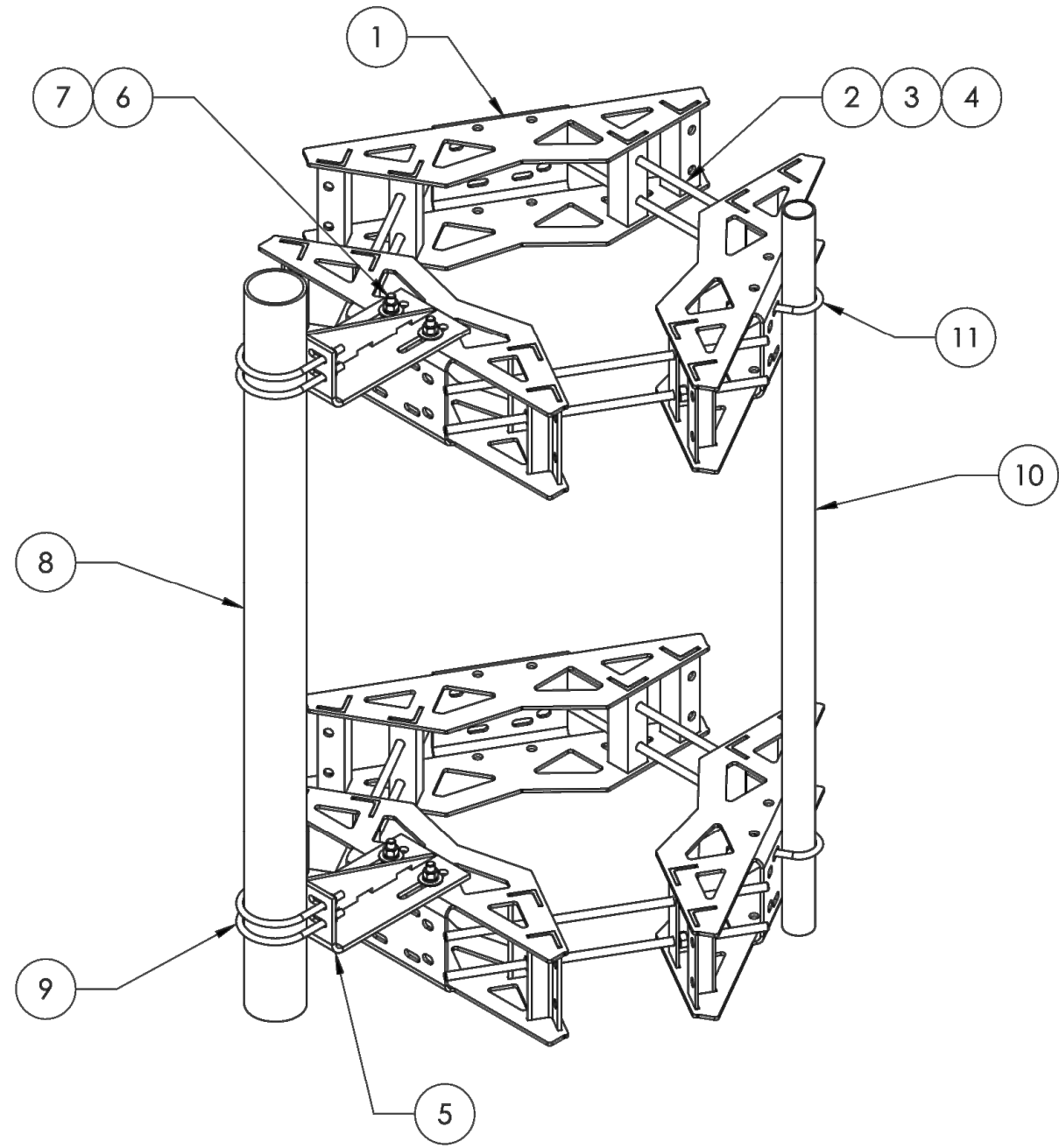
ITEM	PART NO.	DESCRIPTION	QTY.	WEIGHT
1	MTC328601	10-50 RRU Mount Weldment	6	29.99 LBS
2	MT-382-24	5/8" X 24" GALV THREADED ROD	12	2.07 LBS
3	GWL-05	5/8" GALV LOCK WASHER	24	0.03 LBS
4	GN05A	5/8" GALV HEX NUT (A194 2H)	24	0.12 LBS
5	MTC315902	14" L-Bracket	2	15.46 LBS
6	GB-0520A	5/8" X 2" GALV BOLT KIT (A325)	4	0.27 LBS
7	GWF-05	5/8" GALV FLAT WASHER	4	0.03 LBS
8	MT-653-63	4.5" O.D. PLAIN END PIPE	1	56.35 LBS
9	GUB-4456	1/2" X 4-5/8" X 6-1/2" GALV U-BOLT	4	0.91 LBS
10	MT-650-63	Ø 2.375" OD x 63" PIPE	1	19.08 LBS
11	GUB-4240	1/2" X 2-1/2" X 4" GALV U-BOLT	2	0.56 LBS
12	MT38240	5/8" X 40" GALV THREADED ROD	12	3.46 LBS

NOT SHOWN



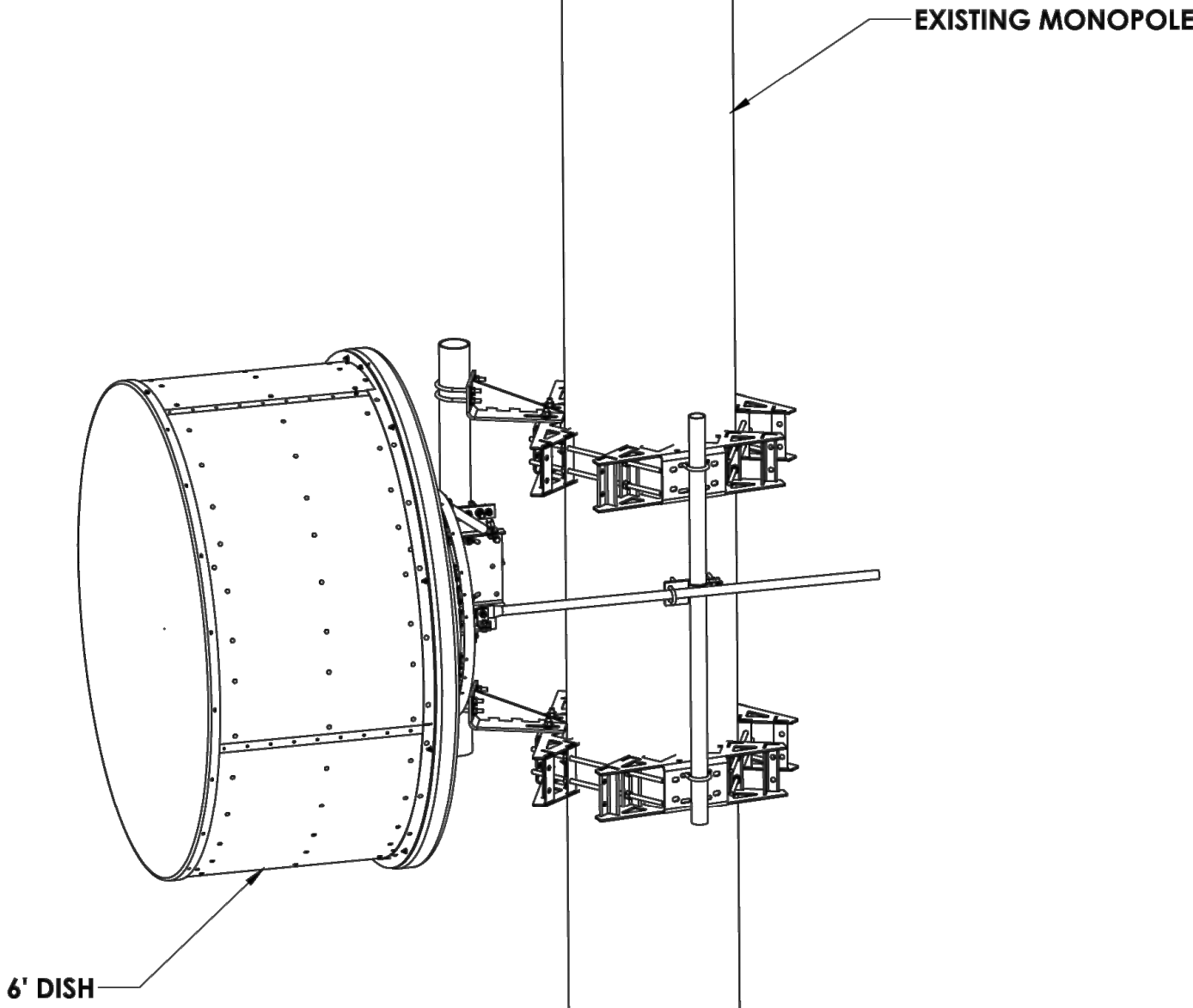
- NOTES:
1. ALL METRIC DIMENSIONS ARE IN BRACKETS.
  2. FITS MONOPOLES 12"–50" OD.
  3. MT38240 USED FOR 30"–50" POLE ODs.

REVISIONS				
REV.	ZONE	DESCRIPTION	BY	DATE
A		INITIAL RELEASE	MSM	10/19/212



C-11

These drawings and specifications are the proprietary property of CommScope Inc. and may be used only for the specific purpose authorized in writing by CommScope Inc.	DRAWN BY: MSM	SHEET: 1 of 2	PART NUMBER: RM-DM-6
	CHECKED BY: TP	SCALE: NTS	DESCRIPTION: 6' Microwave 12"–50" Monopole Mount
	DATE: 10/19/12	MATERIAL: A36, A500	DRAWING TYPE: ASSEMBLY DRAWING
	REVISION: A	FINISH: GALV A123	<b>COMMScope®</b> Hickory, NC 28602 U.S.A.
REMOVE BURRS AND BREAK EDGES .005		WEIGHT: 363.62 LBS	
DO NOT SCALE THIS PRINT			



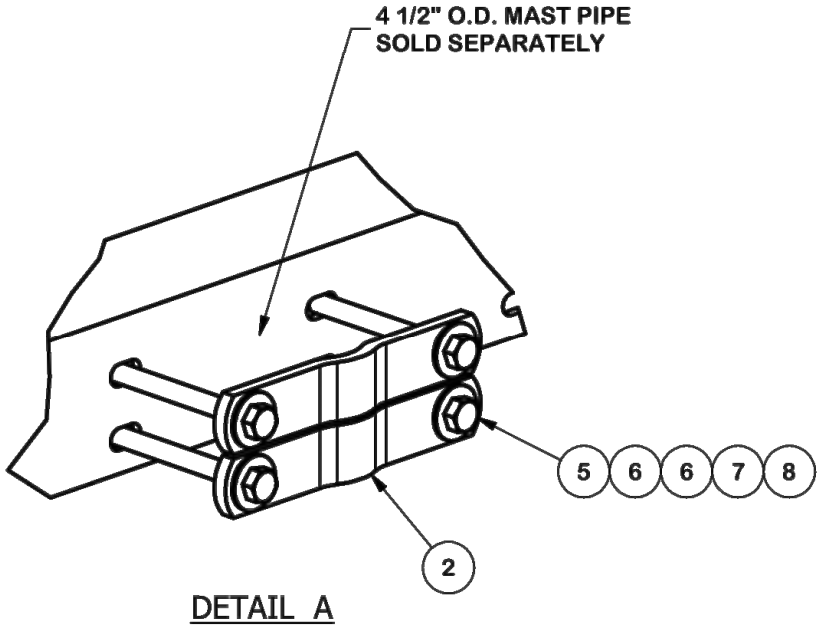
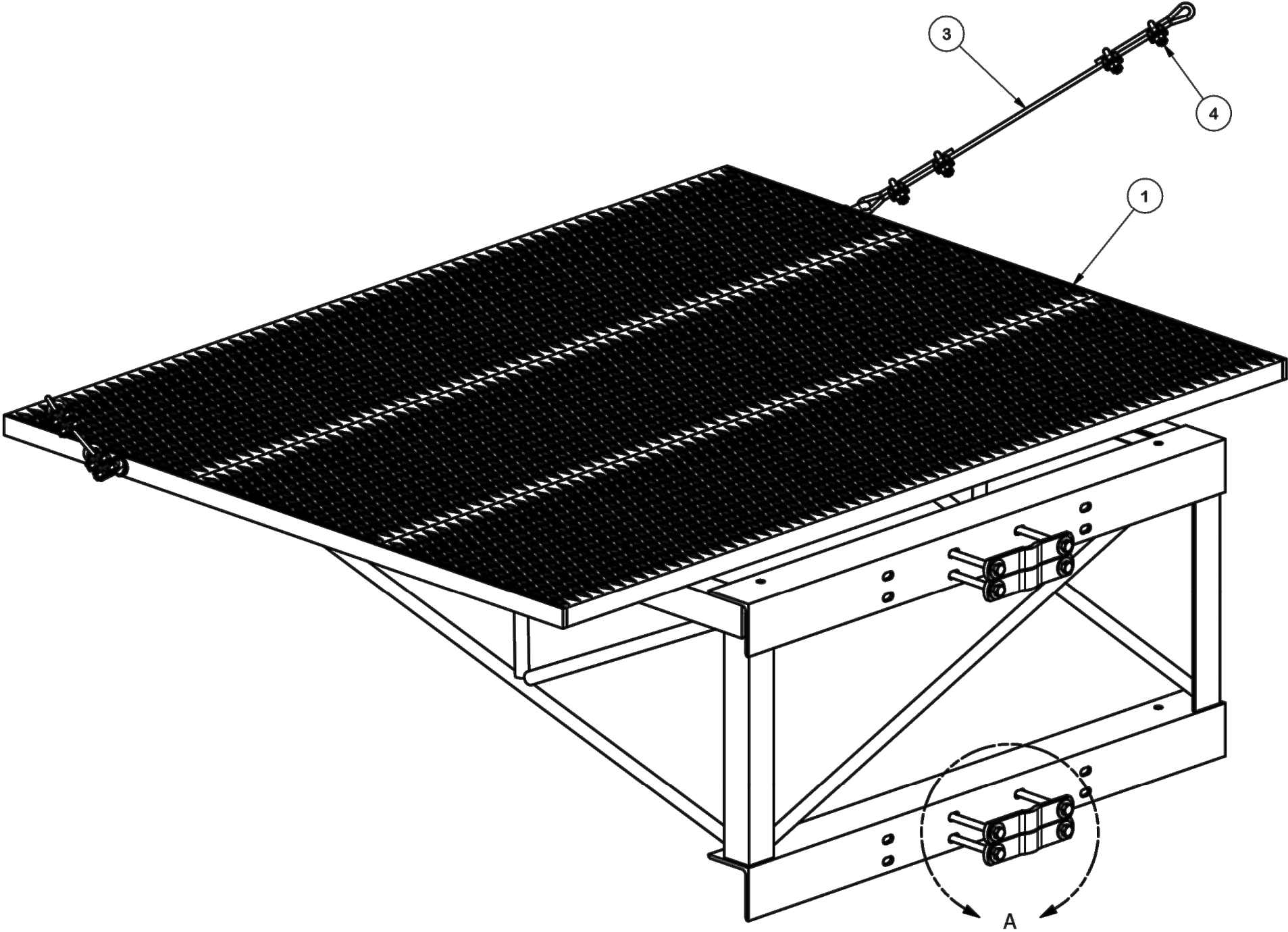
C-12

These drawings and specifications are the proprietary property of CommScope Inc. and may be used only for the specific purpose authorized in writing by CommScope Inc.	DRAWN BY: MSM	SHEET: 2 of 2	PART NUMBER: RM-DM-6
	CHECKED BY: TP	SCALE: NTS	DESCRIPTION: 6' Microwave 12"-50" Monopole Mount
	DATE: 10/19/12	MATERIAL: A36, A500	DRAWING TYPE: ASSEMBLY DRAWING
	REVISION: A	FINISH: GALV A123	<b>COMMScope®</b> Hickory, NC 28602 U.S.A.
	DO NOT SCALE THIS PRINT	WEIGHT: 363.62 LBS	

ALL DIMENSIONS ARE IN INCHES U.O.S.  
TOLERANCES UNLESS OTHERWISE SPECIFIED:  
.X = ± .12      ANGLES      ±2°  
.XX = ± .06      FRACTIONS      ±1/32  
.XXX = ± .03

REMOVE BURRS AND BREAK EDGES .005

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-109302	6' ICE SHIELD FOR DISHES WELDMENT - SITE PRO 1		291.75	291.75
2	4	X-104223	CLAMP (6-5/8" V-CLAMP) GALVANIZED		1.35	5.41
3	1	218751	5/16" GALV. EHS CABLE 7 WIRE (45' LENGTH)		12.00	12.00
4	8	320152-I	5/16" CABLE CLAMP		1.32	10.52
5	8	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD		0.41	3.28
6	16	G12FW	1/2" HDG USS FLATWASHER		0.03	0.54
7	8	G12LW	1/2" HDG LOCKWASHER		0.01	0.11
8	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
					TOTAL WT. #	322.43



C-13

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
SAWED, SHEARED AND GAS CUT EDGES ( $\pm 0.030''$ )  
DRILLED AND GAS CUT HOLES ( $\pm 0.030''$ ) - NO CONING OF HOLES  
LASER CUT EDGES AND HOLES ( $\pm 0.010''$ ) - NO CONING OF HOLES  
BENDS ARE  $\pm 1/2$  DEGREE  
ALL OTHER MACHINING ( $\pm 0.030''$ )  
ALL OTHER ASSEMBLY ( $\pm 0.060''$ )

PROPRIETARY NOTE:  
THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION		
6' ICE SHIELD FOR DISHES		

CPD NO. 4937	DRAWN BY RH18 4/20/2011	ENG. APPROVAL
CLASS 81	SUB 01	DRAWING USAGE CUSTOMER
		CHECKED BY BMC 10/28/2011

SITE PRO 1

A valmont COMPANY

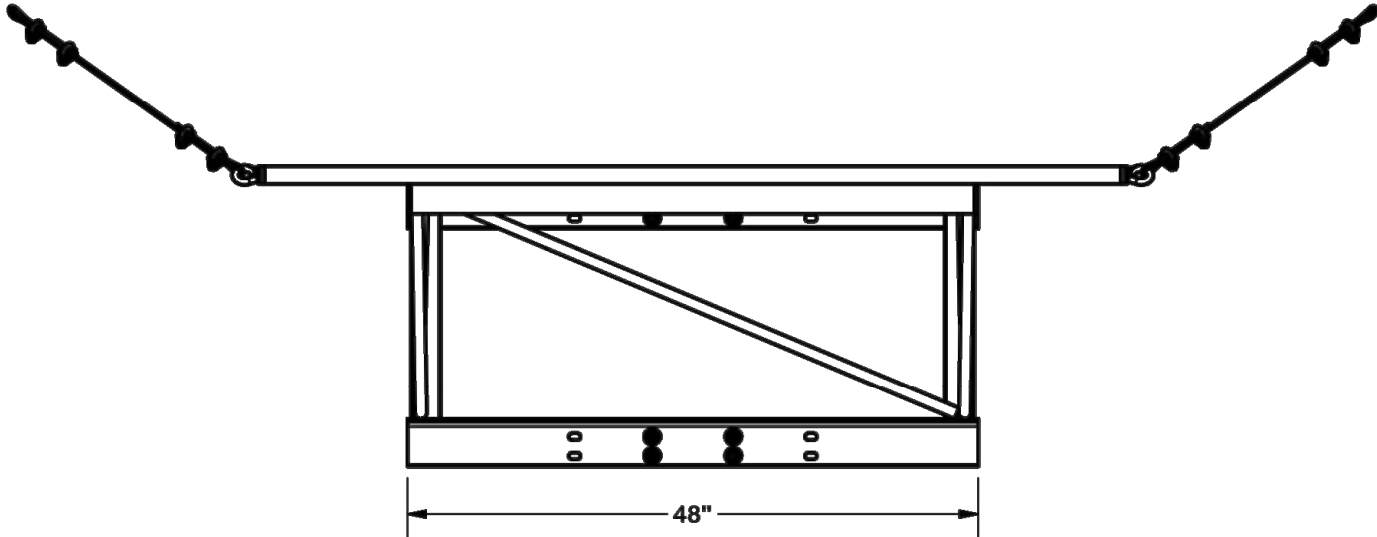
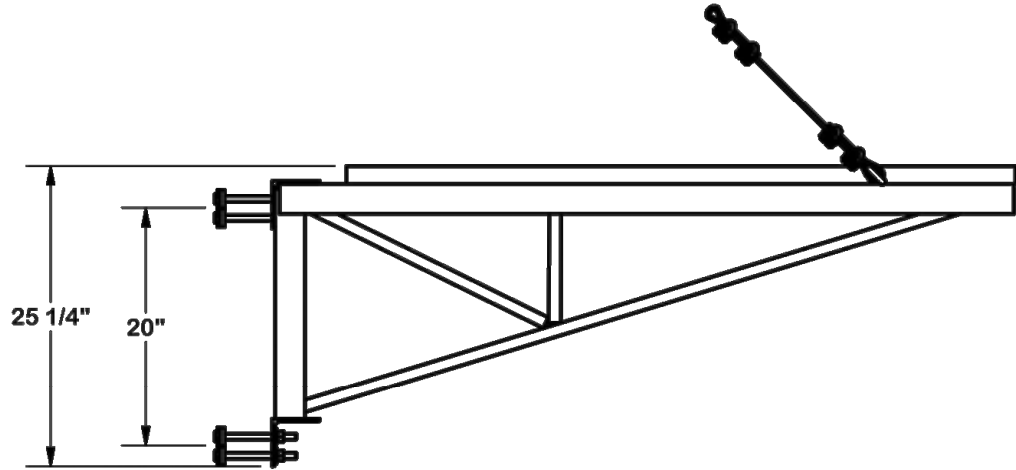
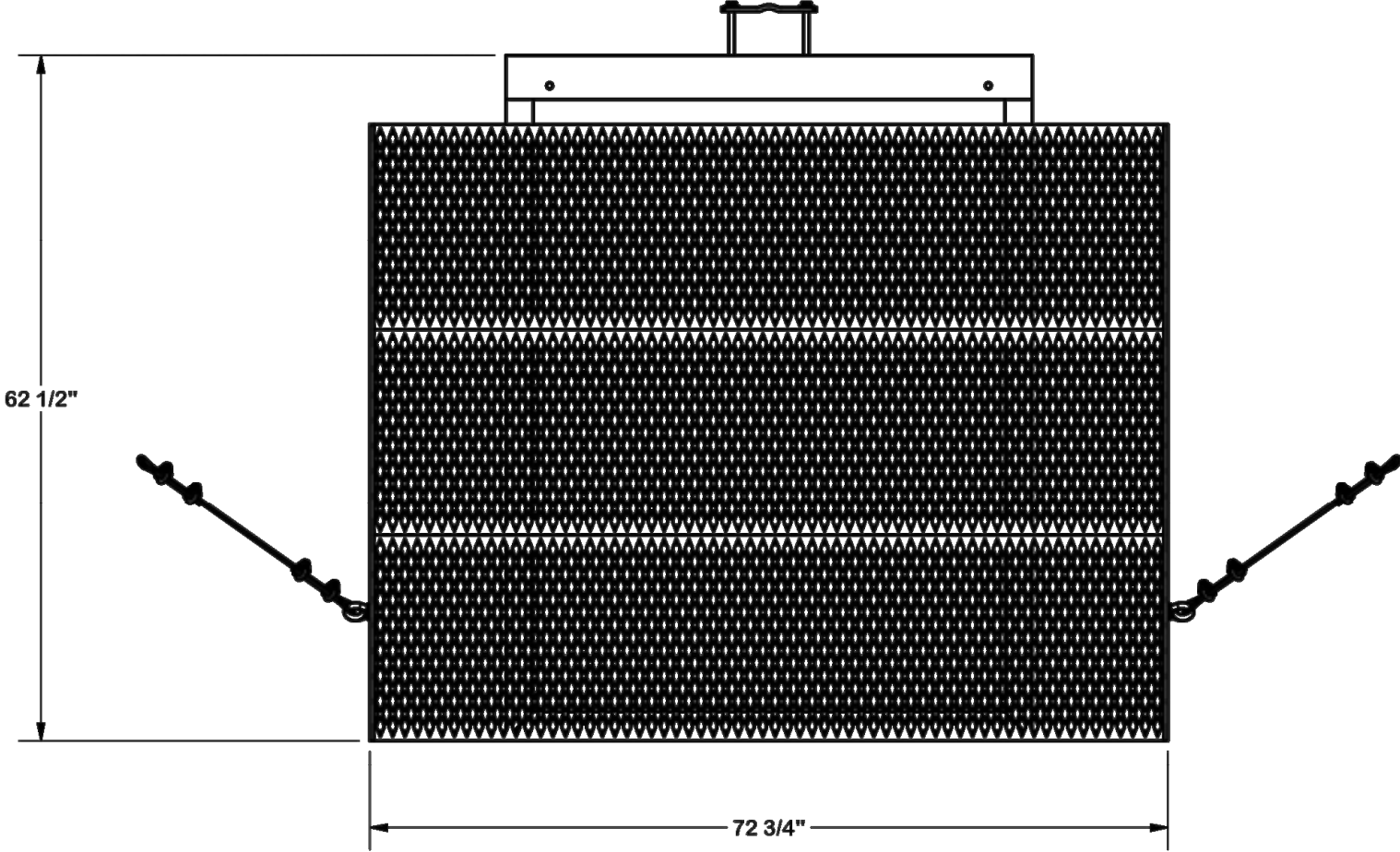
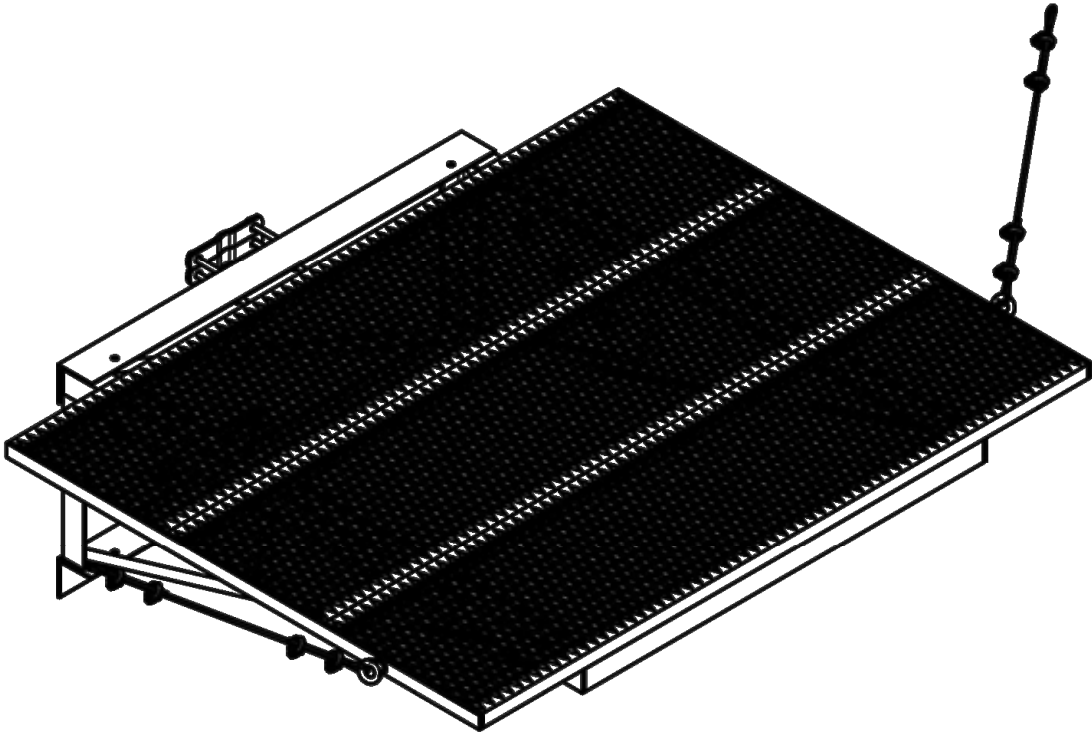
Locations:  
New York, NY  
Atlanta, GA  
Los Angeles, CA  
Plymouth, IN  
Salem, OR  
Dallas, TX

Engineering  
Support Team:  
1-888-753-7446

PART NO.  
ISMD6

DWG. NO.  
ISMD6





C-14

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
SAWED, SHEARED AND GAS CUT EDGES ( $\pm 0.030"$ )  
DRILLED AND GAS CUT HOLES ( $\pm 0.030"$ ) - NO CONING OF HOLES  
LASER CUT EDGES AND HOLES ( $\pm 0.010"$ ) - NO CONING OF HOLES  
BENDS ARE  $\pm 1/2$  DEGREE  
ALL OTHER MACHINING ( $\pm 0.030"$ )  
ALL OTHER ASSEMBLY ( $\pm 0.060"$ )

PROPRIETARY NOTE:  
THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION  
  
6' ICE SHIELD  
FOR DISHES

CPD NO. 4937		DRAWN BY RH18 4/20/2011	ENG. APPROVAL
CLASS 81	SUB 01	DRAWING USAGE CUSTOMER	CHECKED BY BMC 10/28/2011



Engineering  
Support Team:  
1-888-753-7446

Locations:  
New York, NY  
Atlanta, GA  
Los Angeles, CA  
Plymouth, IN  
Salem, OR  
Dallas, TX

A valmont COMPANY

PART NO.  ISMD6	2 OF 2 PAGE
DWG. NO.  ISMD6	

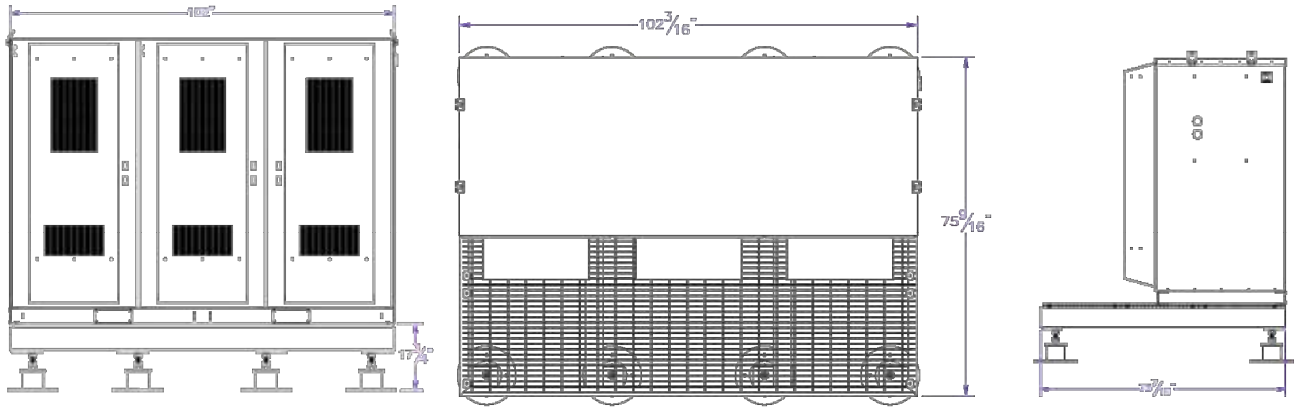
2-Bay, 3-Bay Walk Up to Cabinet (WUC) for AT&T  
Issue 2.2

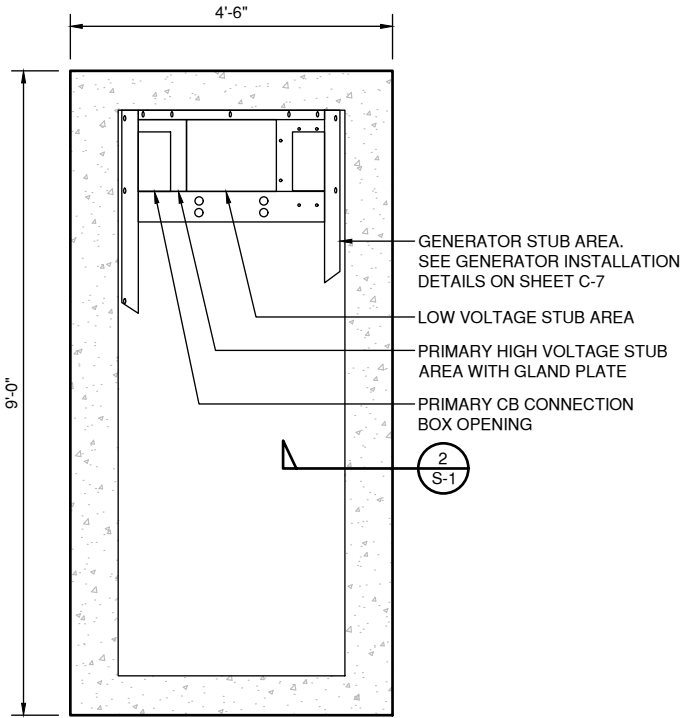


Step 3. Select Mounting Option

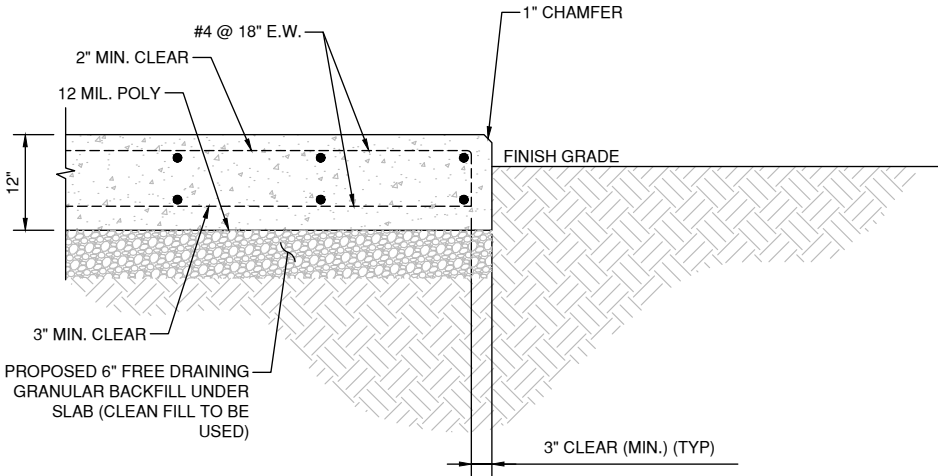
Select part number for mounting options from tables shown below. Please note that the mounting kit part numbers listed in the table below are not ordered from Delta but setup in AT&T's ordering system from a third party supplier (EMI).

AT&T Part Number	EMI #	Product Picture
NEQ.20262	D1010-0010-0118 (Delta WUC Platform Gravity Mount)	





1  
GENERATOR  
FOUNDATION PLAN  
SCALE: 3/8" = 1'-0"



2  
GENERATOR  
FOUNDATION SECTION DETAILS  
SCALE: 1/2" = 1'-0"



CONCRETE:

- ALL CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 318-LATEST EDITION "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS CONTAINED HEREIN OR SHOWN ON THE DRAWINGS.
- ALL CONCRETE SHALL BE 150 PCF HARDROCK, MIXED PER ASTM C-94 AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28-DAYS.
- THE MAXIMUM SIZE AGGREGATE IN FOUNDATION AND MASS CONCRETE WORK SHALL BE 1-INCH. THE MAXIMUM SIZE AGGREGATE IN SLABS-ON-GRADE, WALLS, AND ALL OTHER CONCRETE SHALL BE 3/4-INCH.
- CEMENT SHALL CONFORM TO ASTM C-150, TYPE II, LOW-ALKALI. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C-33.
- ADMIXTURES AND COLORS (EXCEPT AS NOTED, HEREIN)) SHALL NOT BE USED UNLESS SUBSTANTIATING DATA IS SUBMITTED TO, AND ACCEPTED BY, THE ENGINEER AND ARCHITECT OF RECORD.
- CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY. THE MIX DESIGNS SHALL CONFORM TO IBC SECTION 1905, UNLESS OTHERWISE NOTED.
- ALL EXPOSED CONCRETE SHALL HAVE A SMOOTH FORM FINISH, USING B-B PLY-FORM, CLASS I, EXT-APA PLYWOOD.
- ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, AND INSERTS SHALL BE WELL-SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- NO CLAY BRICK OR POROUS MATERIAL SHALL BE USED TO SUPPORT FOUNDATION STEEL OFF THE GROUND. CONCRETE "DOBIES" ARE ACCEPTABLE.
- PROVIDE 3/4-INCH CHAMFER ON ALL EXPOSED CONCRETE CORNERS AND EDGES, UNLESS OTHERWISE NOTED.
- ALL REINFORCING BARS SHALL BE PROVIDED WITH THE FOLLOWING CONCRETE MINIMUM COVER:  
  
FOOTINGS CAST AGAINST EARTH: 3"  
  
FORMED CONCRETE EXPOSED  
TO EARTH OR WEATHER: 2"
- CONCRETE CURING TYPICALLY REQUIRED FOR 5 DAYS.
- COLD-WEATHER CONCRETE PRACTICES, AS SPECIFIED BY ACI, SHALL BE ADHERED TO (WHEN APPLICABLE).

REINFORCING STEEL:

- ALL REINFORCING STEEL SHALL BE PLACED IN CONFORMANCE WITH THE IBC AND THE "MANUAL OF STANDARD PRACTICE" BY THE CRSI, OR AS MODIFIED BY THE CONSTRUCTION DOCUMENTS.
- REINFORCING BARS SHALL CONFORM TO ASTM A-615, DEFORMED GRADE 60, EXCEPT #3 BARS MAY BE GRADE 40. REINFORCING BARS THAT ARE TO BE WELDED SHALL CONFORM TO ASTM A-706, DEFORMED GRADE 60.
- WELDING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH ASTM A-706 WITH LOW HYDROGEN ELECTRODES AND SHALL CONFORM TO IBC STANDARD 1901 AND STRUCTURAL WELDING CODE REINFORCING STEEL BY ANSI/AWS D1.4. MINIMUM TENSILE STRENGTH OF WELD METAL SHALL BE 90 KSI. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS.
- ALL REINFORCING BAR BENDS SHALL BE MADE "COLD", UNLESS OTHERWISE PERMITTED BY THE BUILDING OFFICIAL.
- PROVIDE #3 SPACER TIES AT 2'-6" ON CENTER IN ALL BEAMS AND FOOTINGS TO SECURE REINFORCING BARS IN-PLACE, UNLESS OTHERWISE NOTED.
- PIPING AND CONDUIT SHALL BE SO FABRICATED AND INSTALLED THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED.

FOUNDATION:

- SOIL REMOVAL AND RE-COMPACTION SHALL BE 90% COMPACTION (STANDARD PROCTOR).
- DESIGN SOIL PRESSURE:  
  
FOOTING TYPE: SPREAD FOOTING ALLOWABLE NET BEARING PRESSURE: 2000 PSF
- NO PIPES OR DUCTS SHALL BE PLACED IN FOUNDATIONS UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE ENGINEER.
- ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.
- THE CONTRACTOR SHALL DETERMINE THE LOCATION OF UTILITY SERVICES IN AREAS TO BE EXCAVATED BEFORE BEGINNING EXCAVATION. EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING. DAMAGE CAUSED AS A RESULT OF FAILING TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

PREPARED BY:

n e x i u s

NEXIUS SOLUTIONS, INC.  
2595 NORTH DALLAS PARKWAY  
SUITE 300  
FRISCO, TX 75034

CLIENT:



AT&T  
Mobility

161 INVERNESS DR W, 2ND FLOOR  
ENGLEWOOD, COLORADO 80112

FOR CONSTRUCTION



Designed by

Jordan Phillips

8718DC9510554AE...  
DATE SIGNED: 10/15/20  
PE LICENSE RENEWAL: 10/31/21

THIS DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF  
NEXIUS AND FOR THE EXCLUSIVE USE BY THE TITLE CLIENT.  
DUPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT  
OF THE CREATOR IS STRICTLY PROHIBITED.

SUBMITTALS

REV	DATE	DESCRIPTION	BY
C	03/20/20	FOR REVIEW	RA
D	04/16/20	FOR REVIEW	RA
0	04/22/20	FINAL CD	RA
1	08/24/20	REVISED CD	RA
2	10/15/20	REVISED CD	RA

SITE INFORMATION:

SITE NAME:  
NSB-CO.BDN\_ADD\_4591\_COL02148\_PeyTON  
SITE NUMBER:  
COL02148  
FA LOCATION CODE:  
12871723  
PACE ID:  
MRUTH029076  
ADDRESS:  
12960 N PEYTON HWY  
PEYTON, CO 80831

PROJECTS:

LTE 1C 2C 3C 4C 5C 6C

DRAWN BY: RA	DATE: 01/02/20
CHECKED BY: RA	DATE: 10/15/20

SHEET TITLE:  
GENERATOR FOUNDATION DETAILS

SHEET NUMBER:

S-1

# ELECTRICAL NOTES:

SCOPE:

1. SHALL INCLUDE ALL LABOR, MATERIALS AND APPLIANCES REQUIRED FOR THE FURNISHING, INSTALLING AND TESTING, COMPLETE AND READY FOR OPERATION OF ALL WORK SHOWN ON THE DRAWING AS SPECIFIED HEREIN:
- 1.1. ELECTRIC SERVICE

1.2. CONDUIT AND RACEWAY

1.3. CONDUCTORS

1.4. MISCELLANEOUS MATERIALS

1.5. TELEPHONE CONDUITS

1.6. LIGHTNING ARRESTING SYSTEM

CODES:

1. THE INSTALLATION SHALL COMPLY WITH ALL LAWS APPLYING TO ELECTRICAL INSTALLATION IN EFFECT WITH THE REGULATIONS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL SAFETY CODE AND THE ICC 2006, ADMINISTRATIVE RULES WITH THE NATIONAL ELECTRIC CODE, AND ALL LOCAL GOVERNING CODES AND ORDINANCES WITH THE REGULATION OF THE SERVING UTILITY COMPANY. ALL PERMITS REQUIRED SHALL BE OBTAINED AND, AFTER COMPLETION OF WORK, THE OWNER SHALL BE FURNISHED A CERTIFICATE OF FINAL INSPECTION AND APPROVAL.

MATERIALS:

1. MATERIALS TO BE NEW. USE OF USED OR SUB STANDARD MATERIAL IS NOT ACCEPTABLE. IN THE CASE OF EXISTING METERING EQUIPMENT OR PANELS, REQUIRED COMPONENTS SHALL BE NEW.

TESTING:

1. UPON COMPLETION OF THE INSTALLATION, OPERATE AND ADJUST ALL EQUIPMENT AND SYSTEMS TO MEET SPECIFIED PERFORMANCE REQUIREMENTS. ALL TESTING SHALL BE DONE BY QUALIFIED PERSONNEL.

GUARANTEE:

1. IN ADDITION TO THE GUARANTEE OF THE EQUIPMENT BY THE MANUFACTURER, EACH PIECE OF EQUIPMENT SPECIFIED HEREIN SHALL ALSO BE GUARANTEED FOR DEFECTS OF MATERIAL OR WORKMANSHIP OCCURRING DURING A PERIOD OF ONE (1) YEAR FROM FINAL ACCEPTANCE OF THE WORK BY THE OWNER. WITHOUT EXPENSE TO THE OWNER ALL WARRANTEE CERTIFICATES & GUARANTEES FURNISHED BY THE MANUFACTURERS SHALL BE TURNED OVER TO THE OWNER.

COORDINATION:

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE POWER AND TELEPHONE COMPANIES AND SHALL COMPLY WITH ALL SERVICE REQUIREMENTS OF EACH UTILITY COMPANY.

EXAMINATION OF SITE:

1. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL VISIT THE SITE OF THE JOB AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED ELECTRICAL INSTALLATION AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. FAILURE TO COMPLY WITH THE INTENT OF THIS PARAGRAPH WILL IN NO WAY RELIEVE THE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM OR SYSTEMS.

CUTTING, PATCHING AND EXCAVATION:

1. COORDINATION OF ALL SLEEVES, CHASES, ETC., WILL BE REQUIRED PRIOR TO THE CONSTRUCTION OF ANY PORTION OF THE WORK. ALL CUTTING AND PATCHING OF WALLS, PARTITIONS, FLOORS, AND CHASES IN CONCRETE, WOOD, STEEL OR MASONRY SHALL BE DONE AS PROVIDED ON THE DRAWINGS.
2. ALL NECESSARY EXCAVATIONS AND BACKFILLING INCIDENTAL TO THE WORK UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWING SHALL BE PROVIDED BY THIS CONTRACTOR.
3. SEAL ALL PENETRATION THROUGH WALL AND FLOORS WITH APPROVED GROUT.

EXTERIOR CONDUIT:

1. ALL EXPOSED CONDUIT SHALL BE NEATLY INSTALLED AND RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL ELEMENTS. SUPPORTS AND MOUNTING HARDWARE SHALL BE HOT DIPPED GALVANIZED STEEL.

2. ALL EXTERIOR PVC CONDUITS SHALL BE INSTALLED WITH FROST SLEEVES (8" OVERLAP)

RACEWAYS

1. ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL BE RIGID STEEL EMT, OR SCH40 PVC. AS INDICATED ON THE DRAWINGS.
2. WHERE INSTALLED ON EXTERIORS AND EXPOSED TO DAMAGE, ALL CONDUIT SHALL BE RIGID STEEL. ALUMINUM CONDUIT SHALL NOT BE ALLOWED.
3. CONCEALED CONDUIT IN WALLS OR INTERIOR SPACES ABOVE GRADE MAY BE EMT OR PVC.
4. UNDERGROUND CONDUITS SHALL BE RIGID STEEL OR SCHEDULE 80 PVC AS INDICATED ON THE DRAWINGS.
5. ALL CONDUIT RUNS SHALL USE APPROVED COUPLINGS AND CONNECTORS. PROVIDE INSULATED BUSHINGS FOR ALL CONDUIT TERMINATIONS. ALL CONDUIT RUNS IN A WET LOCATION SHALL HAVE WATERPROOF FITTINGS.
6. PROVIDE SUPPORTS FOR ALL CONDUITS IN ACCORDANCE WITH NEC REQUIREMENTS. ALL CONDUITS SHALL BE SIZED AS REQUIRED BY NEC.
7. BURIAL DEPTH OF ALL CONDUITS SHALL BE AS REQUIRED BY CODE FOR EACH SPECIFIC CONDUIT TYPE AND APPLICATION.
8. CONDUIT ROUTES ARE SCHEMATIC. CONTRACTOR SHALL FIELD VERIFY BEFORE BID. COORDINATE ROUTE WITH WIRELESS CARRIER AND BUILDING OWNER.

EQUIPMENT:

1. ALL DISCONNECT SWITCHES SHALL BE BREAKER TYPE.
2. CIRCUIT BREAKERS SHALL BE RATED TO WITHSTAND THE MAXIMUM AVAILABLE FAULT CURRENT AS DETERMINED BY THE LOCAL UTILITY. CONTRACTOR SHALL VERIFY MAXIMUM AVAILABLE FAULT CURRENT, AND COORDINATE INSTALLATION WITH THE LOCAL UTILITY BEFORE STARTING WORK.

CONDUCTORS:

1. FURNISH AND INSTALL CONDUCTORS CALLED FOR IN THE DRAWINGS. ALL CONDUCTORS SHALL HAVE TYPE THWN (MIN) (75 °C) INSULATION, RATED FOR 600 VOLTS.
2. ALL CONDUCTORS SHALL BE COPPER, THE USE OF ALUMINUM CONDUCTORS SHALL NOT BE ALLOWED. ALL CONDUCTORS SHALL BE UL LISTED AND SHALL BE PROVIDED AND INSTALLED AS FOLLOWS:

A. MINIMUM WIRE SIZE SHALL BE #12 AWG.

B. ALL CONDUCTORS SIZE #8 AND LARGER SHALL BE STRANDED. CONDUCTORS SIZED #10 AND SMALLER MAY BE SOLID OR STRANDED.

C. CONNECTION FOR #10 AWG AND SMALLER SHALL BE BY TWISTING TIGHT AND INSTALLING INSULATED PRESSURE OR WIRE NUT CONNECTIONS.

D. CONNECTION FOR #8 AWG AND LARGER SHALL BE BY USE OF STEEL CRIMP-ON SLEEVES WITH NYLON INSULATOR.
3. ALL CONDUCTORS SHALL BE CODED IN ACCORDANCE WITH NEC STANDARDS.
4. THE RACEWAY SYSTEM SHALL BE COMPLETE BEFORE INSTALLING CONDUCTORS.

PENETRATIONS:

1. CONTRACTOR SHALL COMPLY WITH UL PENETRATION DETAILS FOR PENETRATIONS OF ALL RATED WALLS, ROOF, ETC.

GROUNDING:

1. ALL ELECTRICAL NEUTRALS, RACEWAYS AND NON-CURRENT CARRYING PARTS OF ELECTRICAL EQUIPMENT AND ASSOCIATED ENCLOSURES SHALL BE GROUNDED IN ACCORDANCE WITH NEC ARTICLE 250. THIS SHALL INCLUDE NEUTRAL CONDUCTORS, CONDUITS, SUPPORTS, CABINETS, BOXES, GROUND BUSSES, ETC. THE NEUTRAL CONDUCTOR FOR EACH SYSTEM SHALL BE GROUNDED BY ONE POINT ONLY.
2. PROVIDE GROUND CONDUCTOR IN ALL RACEWAYS.
3. PROVIDE BONDING AND GROUND TO MEET NFPA 780 - LIGHTNING PROTECTION AS A MINIMUM.
4. PROVIDE GROUNDING SYSTEM AS INDICATED ON THE DRAWINGS, AS REQUIRED BY THE NATIONAL ELECTRIC CODE AND RADIO EQUIPMENT MANUFACTURER.

ABBREVIATIONS

- A - AMPERE
- AFG - ABOVE FINISHED GRADE
- ATS - AUTOMATIC TRANSFER SWITCH
- AWG - AMERICAN WIRE GAUGE
- BCW - BARE COPPER WIRE
- BFG - BELOW FINISHED GRADE
- BKR - BREAKER
- c - CONDUIT
- CKT - CIRCUIT
- DISC - DISCONNECT
- EGR - EXTERNAL GROUND RING
- EMT - ELECTRIC METALLIC TUBING
- FSC - FLEXIBLE STEEL CONDUIT
- GEN - GENERATOR
- GPS - GLOBAL POSITIONING SYSTEM
- GRD - GROUND
- IGB - ISOLATED GROUND BAR
- IGR - INTERIOR GROUND RING (HALO)
- KW - KILOWATTS
- NEC - NATIONAL ELECTRIC CODE
- PCS - PERSONAL COMMUNICATION SYSTEM
- PH - PHASE
- PNL - CAD WELD
- PNL - PANEL
- PNLBD - PANELBOARD
- PVC - SCH40 RIGID NON-METALLIC CONDUIT
- RGS - RIGID GALVANIZED STEEL CONDUIT
- SW - SWITCH
- TGB - TOWER GROUND BAR
- UL - UNDERWRITERS LABORATORIES
- V - VOLTAGE
- W - WATTS
- XFMR - TRANSFORMER
- XMTR - TRANSMITTER

LEGEND			
OVERHEAD ELECTRIC LINE	— OH/E —	— OH/E —	
UNDERGROUND ELECTRIC LINE	— UG/E —	— UG/E —	
OVERHEAD FIBER LINE	— OH/F —	— OH/F —	
UNDERGROUND FIBER LINE	— UG/F —	— UG/F —	
OVERHEAD TELEPHONE LINE	— OH/T —	— OH/T —	
UNDERGROUND TELEPHONE LINE	— UG/T —	— UG/T —	
ELECTRIC MANHOLE			ⓔ
UTILITY POLE			🔍
STREET LIGHT			💡

PREPARED BY:

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SUITE 300  
FRISCO, TX 75034

CLIENT:



AT&T

Mobility

161 INVERNESS DR W, 2ND FLOOR  
ENGLEWOOD, COLORADO 80112

FOR CONSTRUCTION



DATE SIGNED: 10/15/20  
PE LICENSE RENEWAL: 10/31/21

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SITE INFORMATION:

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NSB-CO.BDN\_ADD\_4591\_COL02148\_PeyTON

SITE NUMBER:  
COL02148

FA LOCATION CODE:  
12871723

PAGE ID:  
MRUTH029076

ADDRESS:  
12960 N PEYTON HWY  
PEYTON, CO 80831

PROJECTS:

LTE 1C 2C 3C 4C 5C 6C

DRAWN BY:	DATE:
RA	01/02/20
CHECKED BY:	DATE:
RA	10/15/20

SHEET TITLE:

ELECTRICAL NOTES

SHEET NUMBER:

E-1



PANEL SCHEDULE

Incoming Voltage 120/240V, 1ø, 60 HZ

200A, COPPER BUS, 10KAIC

1 PHASE 3 WIRE

		Circuit Breaker		LOAD	CONTINUOUS	PANEL LOAD					CONTINUOUS	LOAD	Circuit Breaker			
Circuit#	Description	SIZE	Poles	AMPS		A	B	KVA	A	B		AMPS	Poles	SIZE	Description	Circuit#
1	RECTIFIER #1	30	2	14.4	Y	2.2		4.3	2.2		Y	14.4	2	30	RECTIFIER #2	2
3				14.4	Y		2.2	4.3		2.2	Y	14.4				4
5	RECTIFIER #3	30	2	14.4	Y	2.2		4.3	2.2		Y	14.4	2	30	RECTIFIER #4	6
7				14.4	Y		2.2	4.3		2.2	Y	14.4				8
9	RECTIFIER #5	30	2	14.4	Y	2.2		4.3	2.2		Y	14.4	2	30	RECTIFIER #6	10
11				14.4	Y		2.2	4.3		2.2	Y	14.4				12
13	RECTIFIER #7	30	2	14.4	Y	2.2		2.2	0.0			0.0	2	30	RECTIFIER #8 / SPARE	14
15				14.4	Y		2.2	2.2		0.0		0.0				16
17	RECTIFIER #9 / SPARE	30	2			0.0		0.0	0.0			0.0	2	30	RECTIFIER #10 / SPARE	18
19							0.0	0.0		0.0		0.0				20
21	HEATER 1	20	1	12.5	N	1.5		1.5	0.0			0.0	1	20	EXTERIOR LIGHT	22
23	HEATER 2	20	1	12.5	N		1.5	1.5		0.0		0.0	1	20	DUPLEX RECPT	24
25	HEATER 1	20	1	12.5	N	1.5		1.7	0.2		N	1.7	1	20	THERMOSIPHON HEX 1	26
27	SPARE		1		N		0.0	0.2		0.2	N	1.7	1	20	THERMOSIPHON HEX 2	28
29	GFCI	20	1	3.0	N	0.4		0.6	0.2		Y	1.5	1	20	GENERATOR BLOCK HTR	30

TOTAL PHASE LOAD:	L1	18.9	KVA
	L2	16.8	KVA
TOTAL PANEL LOAD:		35.7	KVA
TOTAL PANEL LOAD:		148.6	AMPS

NOTES:

- ELECTRICAL SERVICE SHALL BE 200A, 120/240V, 10 3 WIRE.
- FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT, REFER TO VENDOR PRINTS PROVIDED BY EQUIPMENT SHELTER MANUFACTURER.
- SINGLE METER PROVIDED AND INSTALLED BY ELECTRIC UTILITY.
- POWER PANEL SCHEDULE FOR REFERENCE ONLY. CONTRACTOR TO REFER TO SHELTER SPECIFICATIONS FOR EXACT POWER LOADING.

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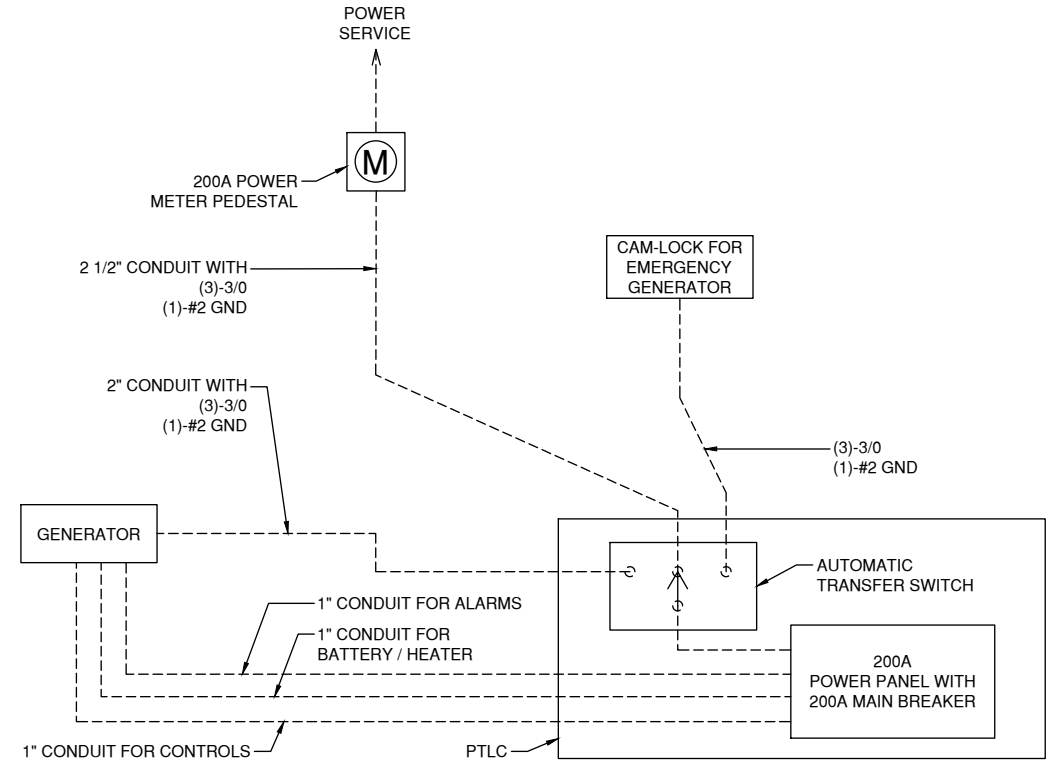
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PROJECTS: LTE 1C 2C 3C 4C 5C 6C	
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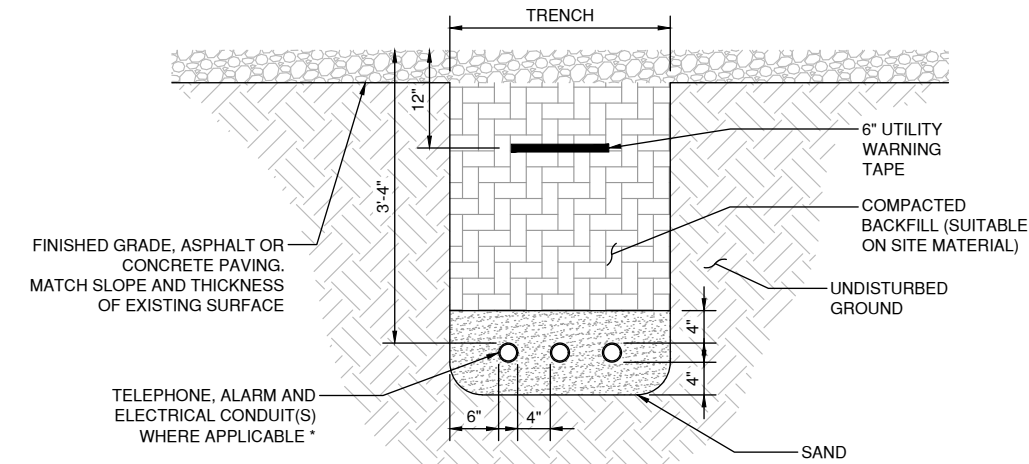
SHEET TITLE:  
POWER PANEL SCHEDULE  
SHEET NUMBER:

E-2



1 ONE-LINE DIAGRAM  
SCALE: N.T.S

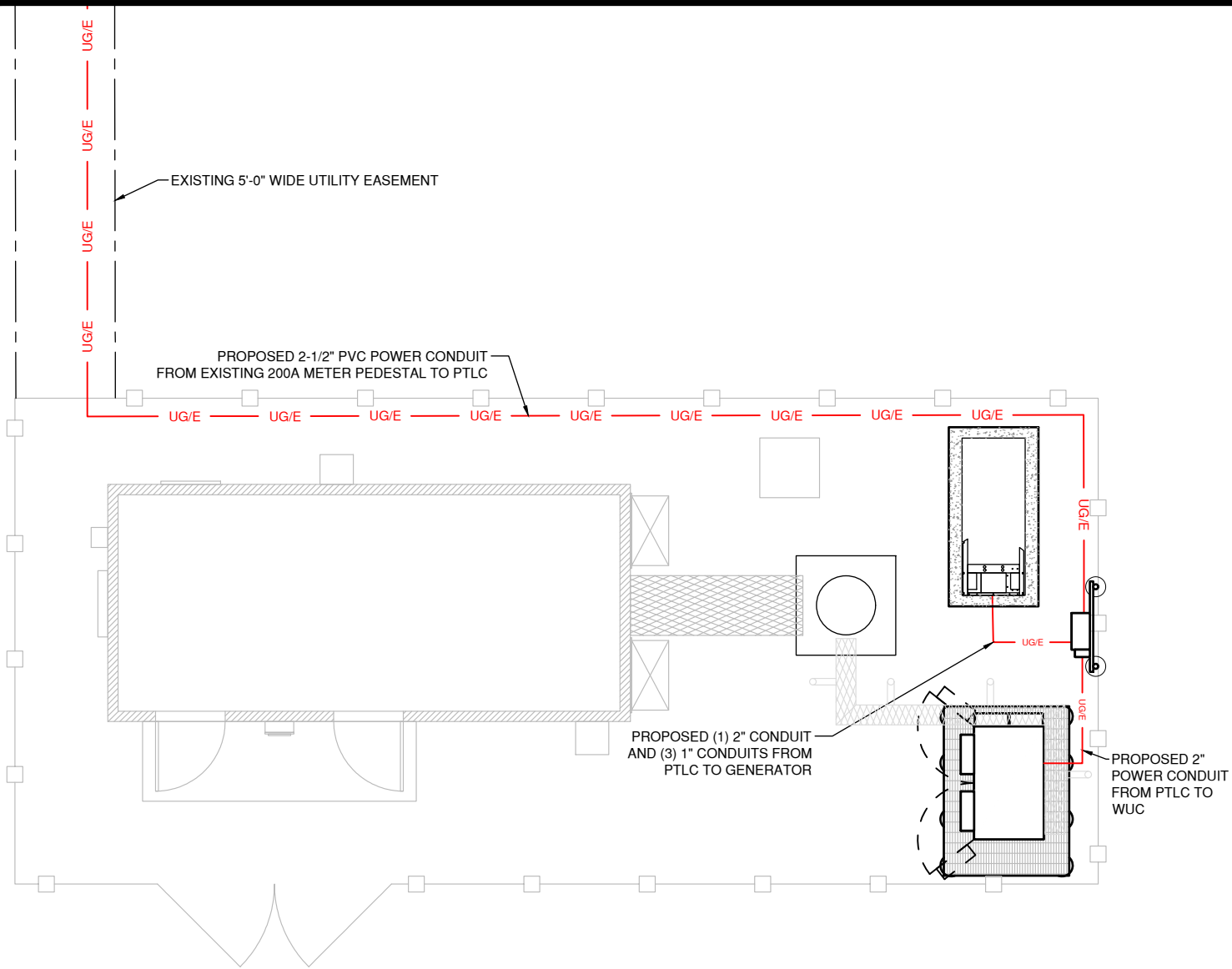
- NOTES:
1. ACTUAL SEPARATION OF CONDUITS TO BE DETERMINED BY SITE SPECIFIC REQUIREMENTS.
  2. PROVIDE PVC CONDUIT BELOW GRADE EXCEPT AS NOTED BELOW.
  3. PROVIDE RGS CONDUIT AND ELBOWS AT STUB UP LOCATIONS (I.E. SERVICE POLES, EQUIPMENT, ETC...)
  4. PROVIDE RGS CONDUIT FOR INSTALLATIONS BELOW PARKING LOTS AND ROADWAYS.
  5. SEPARATION DIMENSIONS TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS.



\* SEPARATION DIMENSIONS TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS.

2 UNDERGROUND CONDUIT TRENCH DETAIL  
SCALE: N.T.S

- NOTES:
1. ALL TELCO CONDUITS ARE TO BE STUBBED IN D-MARC LOCATION. ALL POWER CONDUITS ARE TO BE TERMINATED AT THE METER CENTER.
  2. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO TRENCHING.
  3. ANY DAMAGE CASED TO THE EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
  4. ALL CONDUITS SHALL BE INSTALLED PRIOR TO FINISH GRADING, GEOFABRIC, AND STONE INSTALLATION.
  5. CONTRACTOR SHALL INSTALL SWEEPS AT ALL CONDUIT DIRECTION CHANGES.



3 POWER AND TELCO PLAN  
SCALE: 1/8" = 1'-0"



GRAPHIC SCALE: 1/8"=1'-0"

PREPARED BY:

nexus

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PROJECTS:	
LTE 1C 2C 3C 4C 5C 6C	
DRAWN BY:	DATE:
RA	01/02/20
CHECKED BY:	DATE:
RA	10/15/20

SHEET TITLE:  
ELECTRICAL DETAILS  
SHEET NUMBER:

E-3

- NOTES:
1. REFER TO THE SITE LAYOUT PLAN FOR THE EXACT LOCATION OF THE H-FRAME

2. CONTRACTOR TO COORDINATE WITH ELECTRIC UTILITY FOR METER, METER CANISTER, METERING DEVICE AND WHO IS TO PROVIDE AND INSTALL EACH.

3. CONTRACTOR TO ENSURE METER RACK WORKING SPACES REQUIRED BY THE NEC (ART. 110.26), STATE, AND LOCAL CODES ARE MAINTAINED ON THE H-FRAME PRIOR TO INSTALLATION.

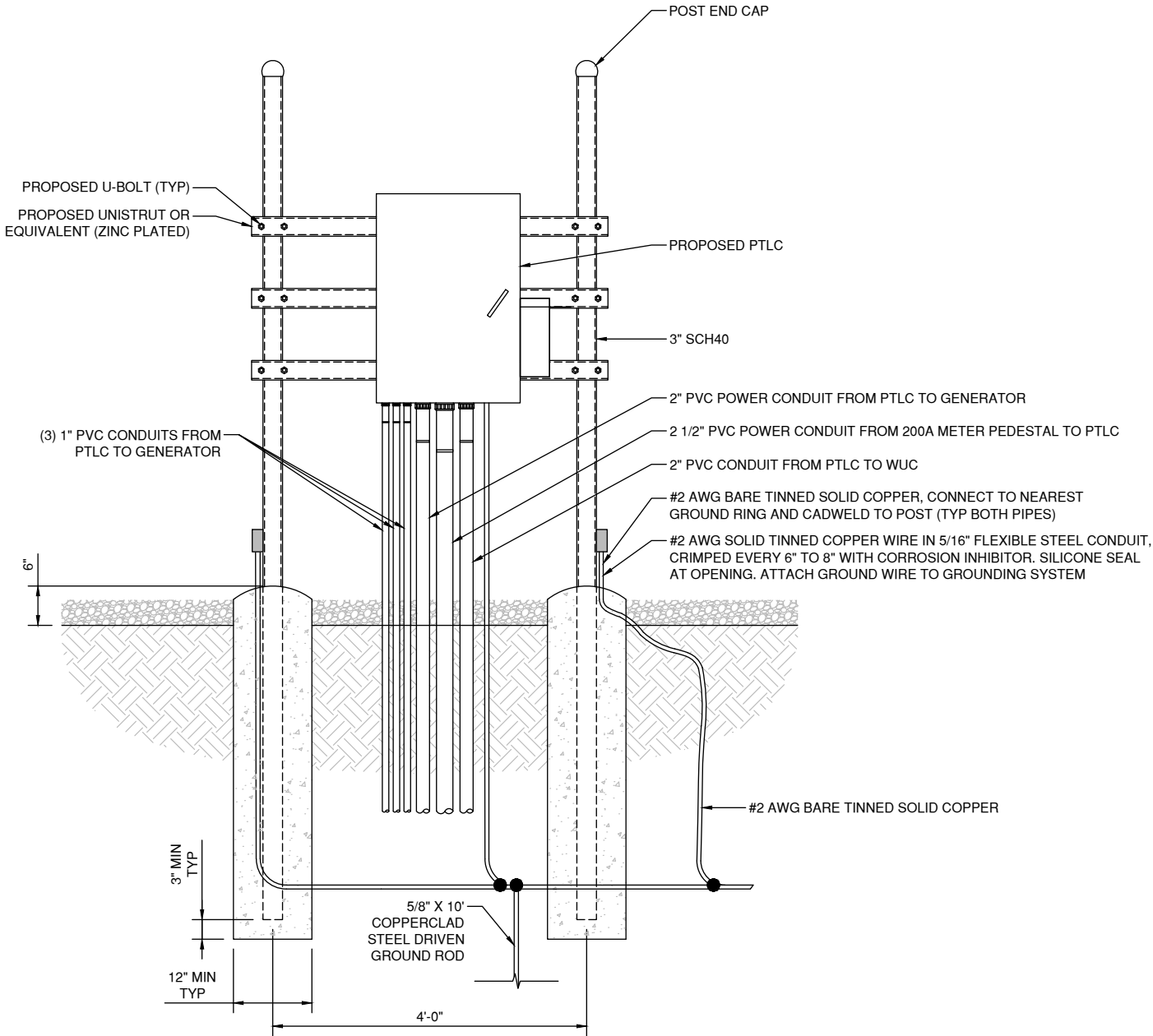
4. SHOW LOCATION (INCLUDING DIMENSIONS OF ALL CAPPED UNDERGROUND CONDUIT ON FINAL AS-BUILT DRAWINGS SUBMITTED TO OWNER.

5. COORDINATE EXACT LOCATION OF UNDERGROUND FEEDERS AND CIRCUITRY WITH THE OWNER.

6. CONTRACTOR SHALL COORDINATE EFFORTS WITH (LOCAL, ELECTRICAL) AUTHORITY HAVING JURISDICTION (AHJ) AND OTHER TRADES TO DETERMINE "FROST" LINE, AND TYPE(S) OF RACEWAYS REQUIRED FOR INSTALLATION.

7. BOND ALL ELECTRICAL EQUIPMENT TO RACK.

8. DIMENSIONS SHOWN ARE APPROXIMATE AND MAY BE ALTERED IN THE FIELD AS APPROVED BY OWNER TO BETTER SUIT ACTUAL CONDITIONS OR EQUIPMENT RECEIVED.



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LTE 1C 2C 3C 4C 5C 6C	
DRAWN BY:	DATE:
RA	01/02/20
CHECKED BY:	DATE:
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SHEET TITLE: SERVICE RACK DETAILS

SHEET NUMBER:

DRAWING NOTES:

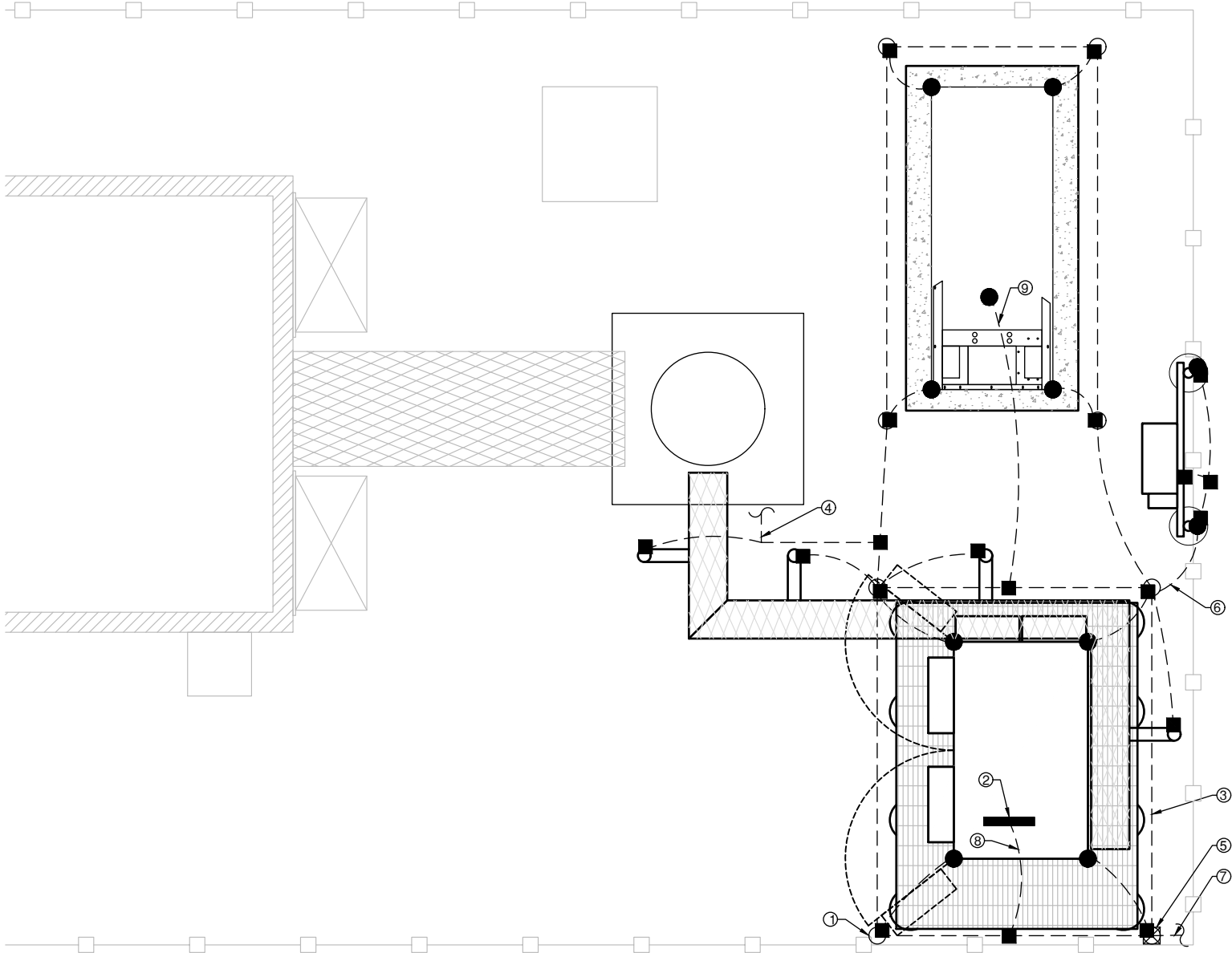
1. 5/8" x 8'-0" COPPER GROUND ROD (TYP).
2. CIGBE GROUND BAR.
3. PROPOSED SHELTER GROUND RING. #2 COPPER CONDUCTOR-BARE TINNED BURIED.
4. CAD WELD #2 BARE TINNED COPPER CONDUCTOR FROM ICE BRIDGE TO EXISTING TOWER GROUND RING. TOWER GROUND RING TO BE FIELD LOCATED.
5. PROPOSED INSPECTION WELL. SEE DETAIL ON THIS SHEET.
6. PROPOSED METER GROUNDED TO NEAREST GROUNDING ROD.
7. CAD WELD #2 BARE TINNED COPPER CONDUCTOR TO NEAREST FENCE GROUND ROD. FENCE GROUND ROD TO BE FIELD LOCATED.
8. CAD WELD FROM SHELTER GROUND RING TO SHELTER GROUND BAR
9. CAD WELD FROM SHELTER GROUND RING TO GENERATOR

GROUNDING NOTES:

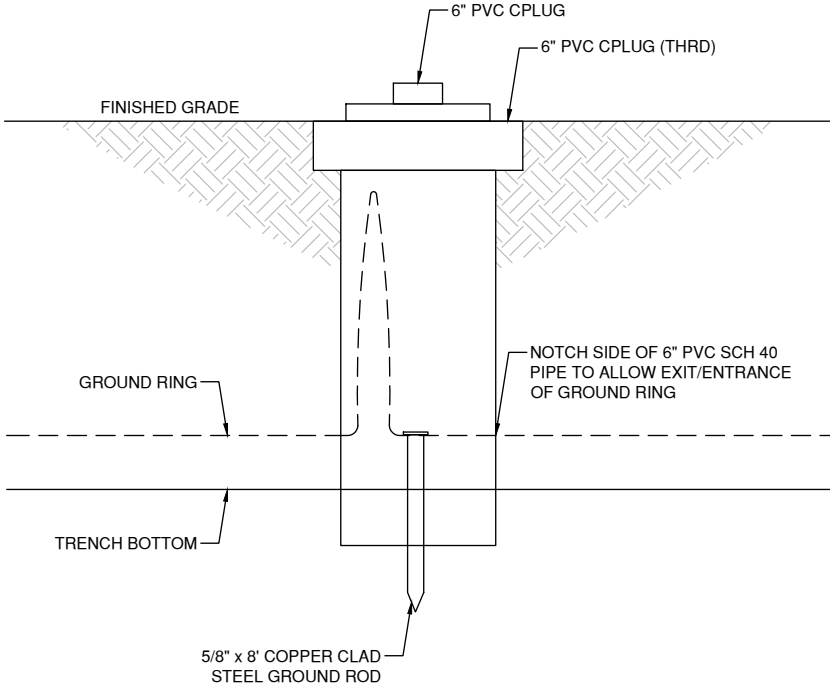
1. GROUNDING ELECTRODES SHALL BE CONNECTED IN A RING USING #2 SOLID CONDUCTOR. THE TOP OF THE GROUND RODS AND THE RING CONDUCTOR SHALL BE 50" (MIN) BELOW FINISHED GRADE. GROUNDING ELECTRODES SHALL BE DRIVEN ON 10'-0" CENTERS. (6'-0" MINIMUM; 16'-0" MAXIMUM).
2. BONDING OF THE GROUNDED CONDUCTOR (NEUTRAL) AND THE GROUNDING CONDUCTOR SHALL BE AT THE SERVICE DISCONNECTING MEANS. BONDING JUMPER SHALL BE INSTALLED PER NATIONAL ELECTRIC CODE, ARTICLE 250.30.
3. INTERIOR GROUND BARS ARE TO BE BARE COPPER. EXTERIOR GROUND BARS ARE TO BE TINNED OR GALVANIZED COPPER.

GROUNDING LEGEND:

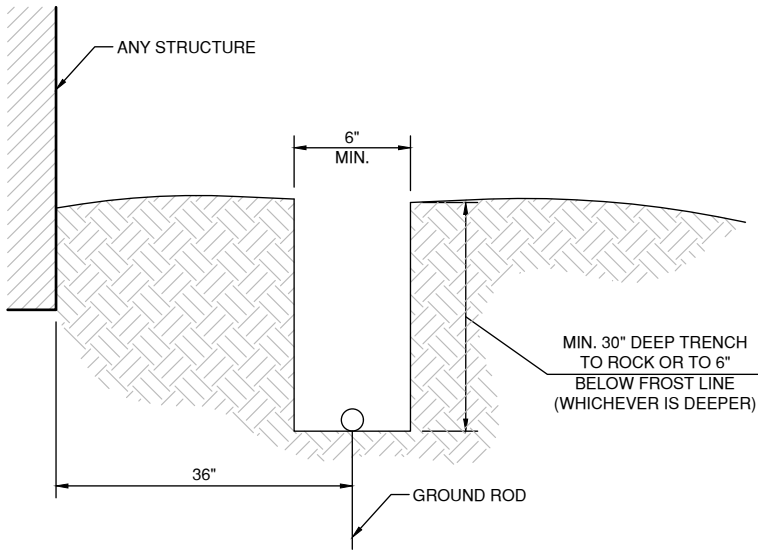
- GROUND ROD
- GROUNDING CONDUCTOR
- GROUND ROD WITH INSPECTION WELL
- GROUND BAR
- COMPRESSION FITTING CONNECTION
- EXOTHERMIC WELD CONNECTION



1 GROUNDING PLAN  
SCALE: 1/4" = 1'-0"



3 INSPECTION WELL DETAIL  
SCALE: N.T.S



2 TRENCH DETAIL  
SCALE: N.T.S

PREPARED BY:

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PROJECTS:  
LTE 1C 2C 3C 4C 5C 6C

DRAWN BY: RA	DATE: 01/02/20
CHECKED BY: RA	DATE: 10/15/20

SHEET TITLE: GROUNDING  
PLAN AND DETAILS  
SHEET NUMBER:

G-1



GROUNDING NOTES:

1. GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRIC CODE.

2. ALL GROUNDING SERVICES SHALL BE UL APPROVED OR LISTED FOR THEIR INTENDED USE.

3. ALL WIRES SHALL BE AWG THHN/THWN COPPER UNLESS NOTED OTHERWISE.

4. GROUNDING CONNECTION TO GROUND RODS, GROUND RING WIRE, TOWER BASE, AND FENCE POSTS SHALL BE EXOTHERMIC (CADWELDS) UNLESS NOTED OTHERWISE. CLEAN SURFACES TO SHINY METAL. WHERE GROUND WIRES ARE CADWELDED TO GALVANIZED SURFACES, SPRAY CADWELD WITH GALVANIZING PAINT.

5. GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO-HOLE BRASS MECHANICAL CONNECTORS WITH STAINLESS STEEL HARDWARE (INCLUDING SCREW SET) CLEAN GROUND BAR TO SHINY METAL. AFTER MECHANICAL CONNECTION, TREAT WITH PROTECTIVE ANTIOXIDANT COATING.

6. GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS.

7. ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.

8. INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER INSTALL WIRE FOR BELOW GRAD GROUNDING UNLESS OTHERWISE NOTED.

9. REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE (CADWELDS) TO ANTENNA MOUNTS AND GROUND TRAIN, REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LUGS.

10. THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS POSITION ACCORDING TO GROUND PLAN THE GROUND RODS SHALL BE 5/8"X10'-0" COPPER CLAD STEEL INTERCONNECTION WITH #2 BARE TINNED COPPER WIRE BURIED 36" BELOW GRADE. BURY GROUND RODS A MAXIMUM OF 15' APART, AND A MINIMUM OF 8' APART.
11. IF ROCK IS ENCOUNTERED GROUND RODS SHALL BE PLACED AT AN OBLIQUE ANGLE NOT TO EXCEED 45DEG.

12. EXOTHERMIC WELDS SHALL BE MADE IN ACCORDANCE WITH ERICO PRODUCTS BULLETIN A-AT.

13. CONSTRUCTION OF GROUND RING AND CONNECTIONS TO EXISTING GROUND RING SYSTEM SHALL BE DOCUMENTED WITH PHOTOGRAPHS PRIOR TO BACKFILLING SITE, PROVIDE PHOTOS TO THE CONSTRUCTION MANAGER.

14. ALL GROUND LEADS EXCEPT THOSE TO THE EQUIPMENT ARE TO BE #2 BARE TINNED COPPER WIRE. ALL EXTERIOR GROUND BARS WILL BE TINNED COPPER.

15. PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LUBE INC.). PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUAL.

16. ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRM TO TEST AND VERIFY THAT IMPEDANCE DOES NOT EXCEED FIVE OHMS TO GROUND BY MEANS OF "FALL OF POTENTIAL TEST". TEST SHALL BE WITNESSED BY AN AT&T REPRESENTATIVE AND RECORDED ON THE "GROUND RESISTANCE TEST" FORM.

17. WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, WIRE IN 3/4" PVC SLEEVE, FROM 1" BELOW GRADE AND SEAL TOP WITH SILICONE MATERIAL.

18. PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN SHINY METAL FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDATION PAINT.

19. ANY SITE WHERE THE EQUIPMENT (BTS, CABLE BRIDGE, PPC, GENERA TOR, ETC.) IS LOCATED WITHIN 6 FEET OF METAL FENCING, THE GROUND RING SHALL BE BONDED TO THE NEAREST FENCE POST USING (3) RUNS OF #2 BARE TINNED COPPER WIRE.

PREPARED BY:

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PEYTON, CO 80831

PROJECTS:

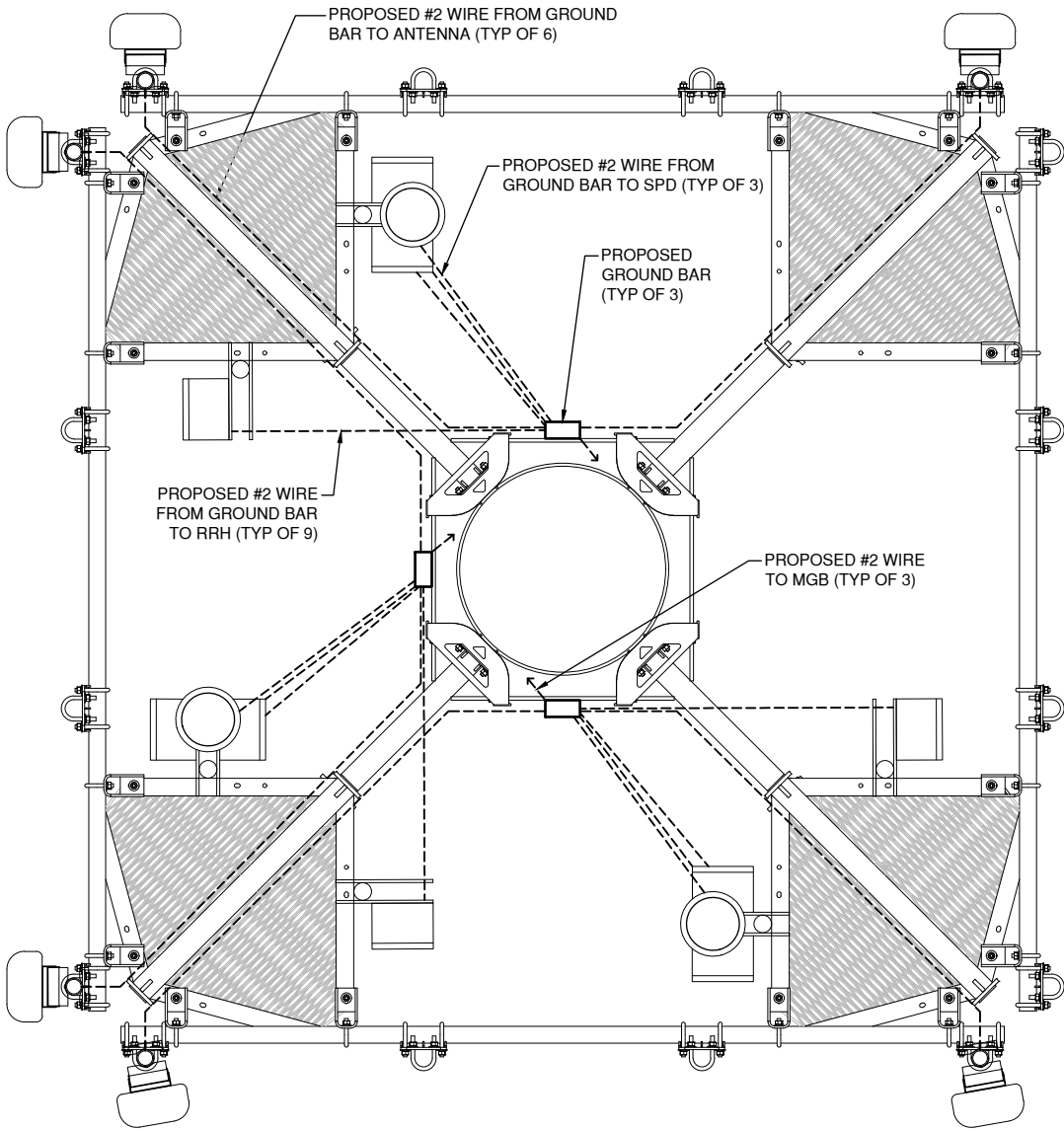
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DRAWN BY: RA	DATE: 01/02/20
CHECKED BY: RA	DATE: 10/15/20

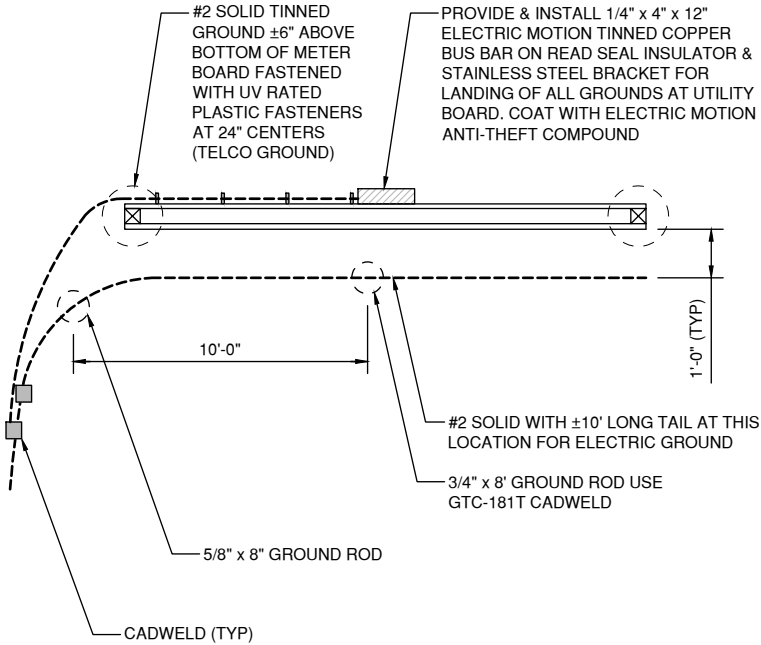
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GROUNDING DETAILS

SHEET NUMBER:

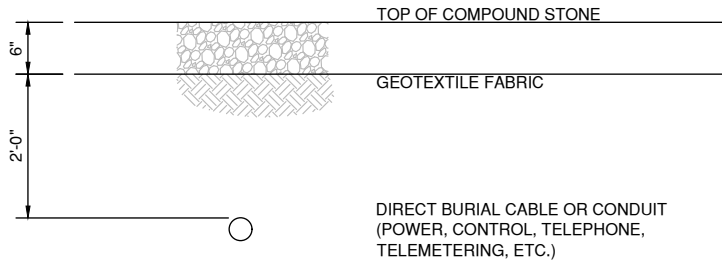
G-2







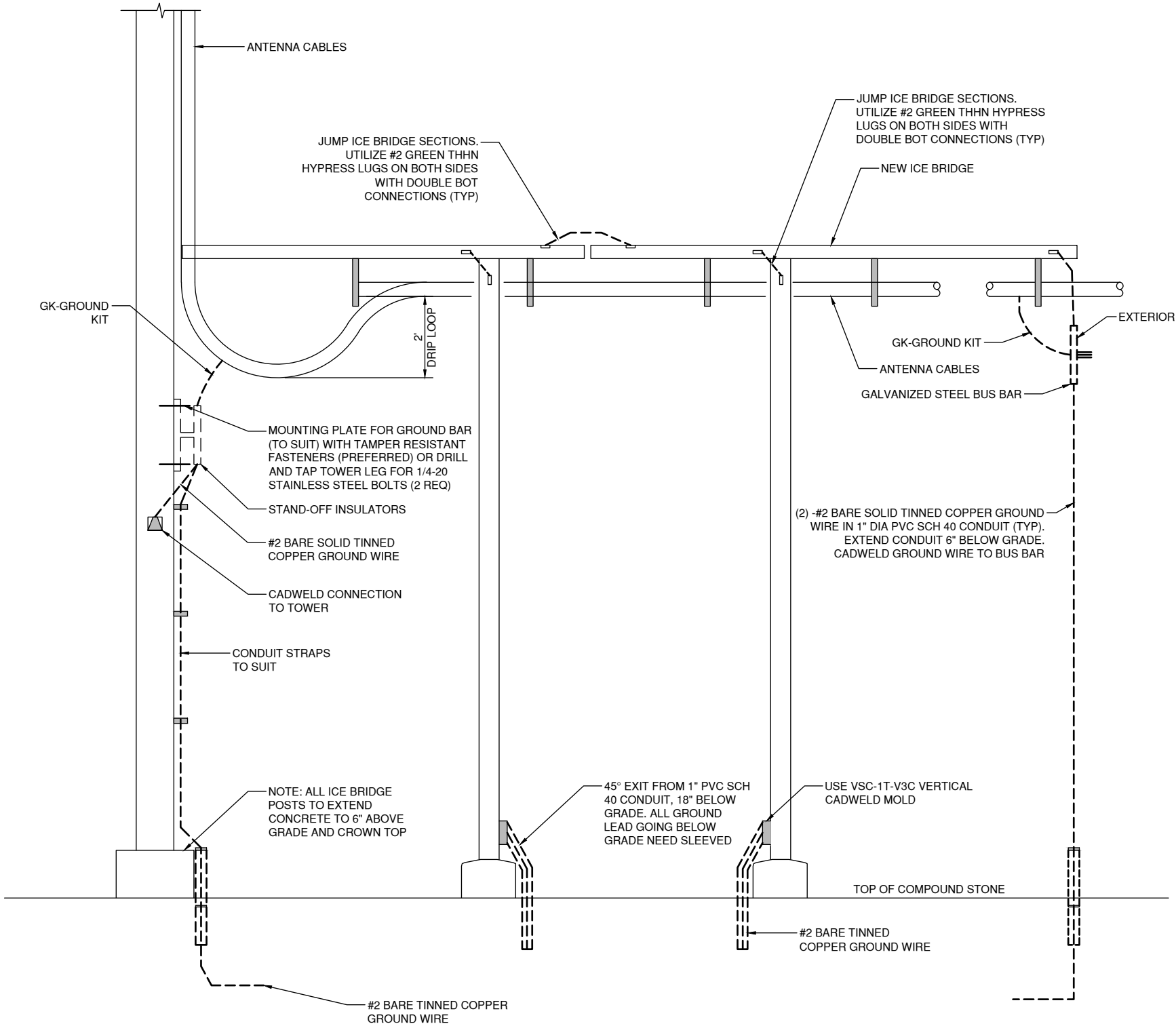
1 SERVICE RACK GROUNDING  
SCALE: N.T.S



- INSTALLATION:
1. THE TAPE SHALL BE LAID DIRECTLY ABOVE THE CABLE OR CONDUIT UNDER RIGID TYPE AND OIL MAT PAVEMENTS, AND DIRECTLY ON TOP OF THE COMPACTED EARTH SUB-GRADE IMMEDIATELY BEFORE RESTORING THE PAVEMENT.
  2. IN OPEN AREAS, THE TAPE SHALL BE LAID DURING THE BACKFILLING OPERATION ON SMOOTH, COMPACTED BACKFILL AT A DISTANCE OF 8' BELOW THE SURFACE OF THE AREA.
  3. THE ENDS OF THE TAPE SHALL BE LAPPED APPROX. 6 INCHES.
  4. TAPE SHALL BE THE COLOR AS INDICATED AND HAVE THE FOLLOWING MARKINGS:

RED	CAUTION
	BURIED ELECTRIC LINE BELOW
ORANGE	CAUTION
	BURIED TELEPHONE LINE BELOW

2 MARKER TAPE DETAIL  
SCALE: N.T.S



3 ICE BRIDGE GROUNDING  
SCALE: N.T.S

PREPARED BY:

n e x i u s

NEXIUS SOLUTIONS, INC.  
2595 NORTH DALLAS PARKWAY  
SUITE 300  
FRISCO, TX 75034

CLIENT:



AT&T  
Mobility

161 INVERNESS DR W, 2ND FLOOR  
ENGLEWOOD, COLORADO 80112

FOR CONSTRUCTION



DATE SIGNED: 10/15/20  
PE LICENSE RENEWAL: 10/31/21

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SITE INFORMATION:

SITE NAME:  
NSB-CO.BDN\_ADD\_4591\_COL02148\_PeyTON

SITE NUMBER:  
COL02148

FA LOCATION CODE:  
12871723

PAGE ID:  
MRUTH029076

ADDRESS:  
12960 N PEYTON HWY  
PEYTON, CO 80831

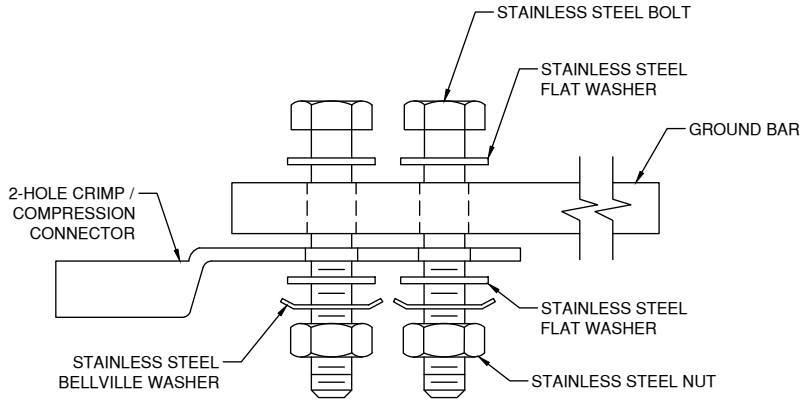
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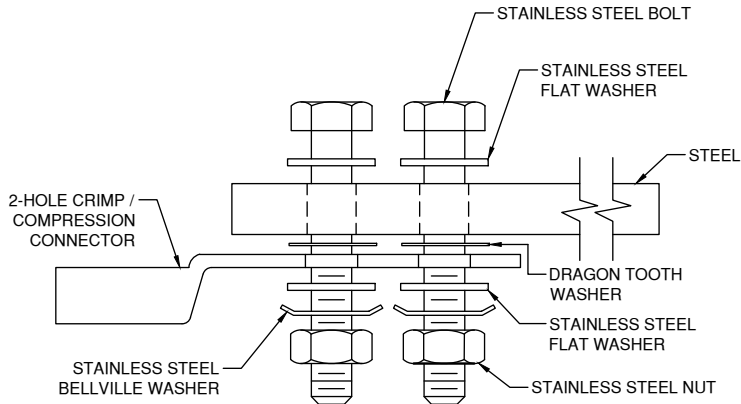
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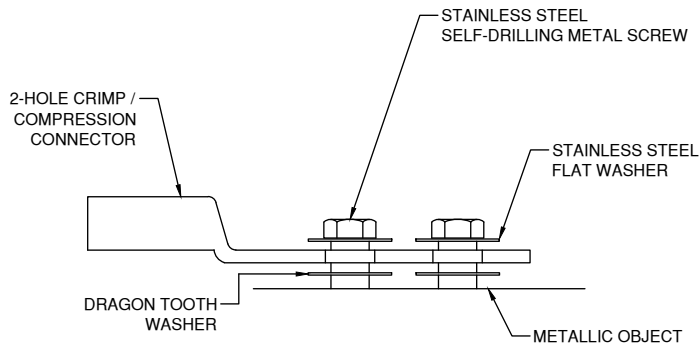
G-3



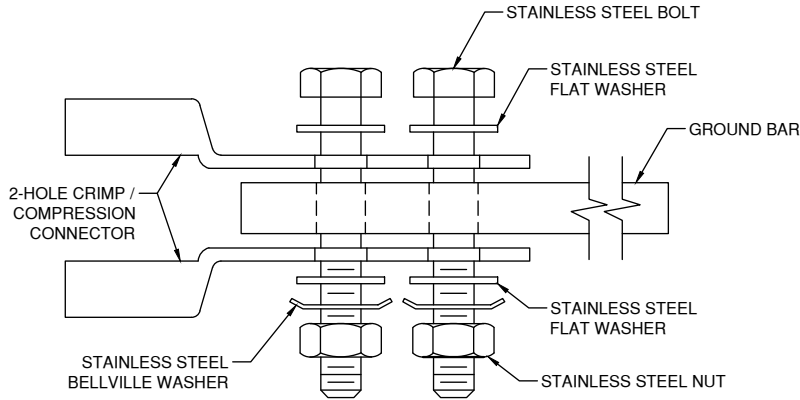
SINGLE CONNECTOR AT GROUND BARS



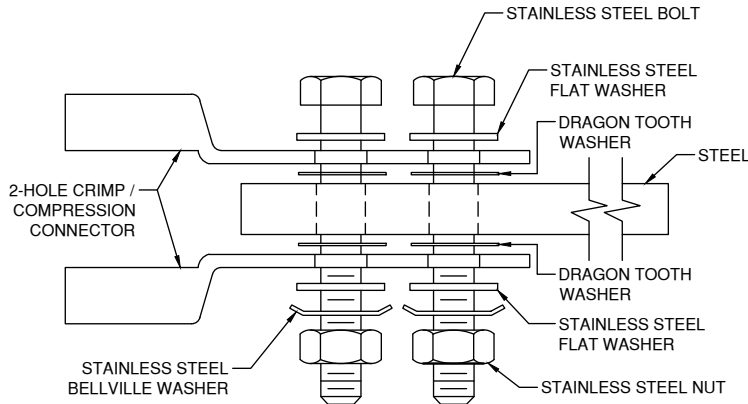
SINGLE CONNECTOR AT STEEL OBJECTS



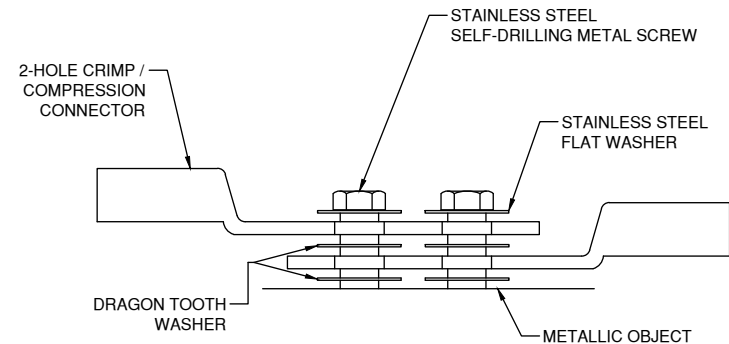
SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS



BACK TO BACK CONNECTOR AT GROUND BARS



BACK TO BACK CONNECTOR AT STEEL OBJECTS



BACK TO BACK CONNECTOR AT METALLIC/STEEL OBJECTS

NOTES

1. CHOOSE BOLT LENGTH TO ALLOW A MIN. OF THREE THREADS EXPOSED.
2. BURNISH MOUNTING SURFACE TO REMOVE PAINT IN THE AREA OF THE CONNECTOR.
3. APPLY ANTI-OXIDANT COMPOUND TO MATING SURFACE OF CONNECTOR AND WIPE OFF EXCESS COMPOUND.
4. APPLY CLEAR HEAT SHRINK OVER ENTIRE LENGTH OF LABEL FOR PROTECTION. (REFER TO CONDUCTOR LABELS SECTION).
5. INTERIOR GROUND BARS ARE TO BE BARE COPPER. EXTERIOR GROUND BARS ARE TO BE TINNED OR GALVANIZED COPPER.

PREPARED BY:

nexus

NEXIUS SOLUTIONS, INC.  
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SHEET TITLE:  
GROUNDING DETAILS

SHEET NUMBER:

G-4

## GENERAL NOTES:

- ALL REFERENCES TO OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED AT&T TOWERS, OR ITS DESIGNATED REPRESENTATIVE.
- ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE OF COLORADO.
- STRUCTURE IS DESIGNED IN ACCORDANCE WITH ANSL/TIA/EIA-222-G, 2005, FOR A 90 MPH 3-SECOND GUST WIND LOAD. THIS CONFORMS TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2012 EDITION.
- WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2012 EDITION.
- UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.
- ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERSEDE ANY CONFLICTING NOTES ENCLOSED.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
- ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATIONS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE PROCEDURES.
- ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
- ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE RESIDENT LEASING AGENT FOR APPROVAL.
- BILL OF MATERIALS AND PART NUMBERS LISTED ON CONSTRUCTION DRAWINGS ARE INTENDED TO AID CONTRACTOR. CONTRACTOR SHALL VERIFY PARTS AND QUANTITIES WITH MANUFACTURER PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
- ALL PERMITS THAT MUST BE OBTAINED ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
- 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) ENGINEER.
- THE CONTRACTOR SHALL REWORK (DRY, SCARIFY, ETC.) ALL MATERIAL NOT SUITABLE FOR SUB-GRADE IN ITS PRESENT STATE. AFTER REWORKING, IF THE MATERIAL REMAINS UNSUITABLE, THE CONTRACTOR SHALL UNDERCUT THIS MATERIAL AND REPLACE WITH APPROVED MATERIAL. ALL SUB-GRADES SHALL BE PROOF ROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO PAVING. ANY SOFTER MATERIAL SHALL BE REWORKED OR REPLACED.
- THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL PIPES, DITCHES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO MAINTAIN DRAINAGE STRUCTURE IN OPERABLE CONDITION.
- ALL MATERIALS AND WORKMANSHIP SHALL BE WARRANTED FOR ONE YEAR FROM ACCEPTANCE DATE.
- ALL BUILDING DIMENSIONS SHALL BE VERIFIED WITH THE PLANS (LATEST REV1SION) PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE DISCOVERED. THE OWNER SHALL ALWAYS HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE WHILE WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.

## STRUCTURAL NOTES:

- THE FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS AND MANUAL OF STEEL CONSTRUCTION, 14TH EDITION.
- UNLESS OTHERWISE NOTED, ALL STRUCTURAL ELEMENTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
  - STRUCTURAL STEEL, ASTM DESIGNATION A36 OR A992 GR50.
  - ALL BOLTS, ASTM A325 TYPE ASTM GALVANIZED HIGH STRENGTH BOLTS.
  - ALL NUTS, ASTM A563 CARBON AND ALLOY STEEL NUTS.
  - ALL WASHERS, ASTM F436 HARDENED STEEL WASHERS.
- ALL CONNECTIONS NOT FULLY DETAILED ON THESE PLANS SHALL BE DETAILED BY THE STEEL FABRICATOR IN ACCORDANCE WITH AISC SPECIFICATIONS AND MANUAL OF STEEL CONSTRUCTION, 14TH EDITION.
- HOLES SHALL NOT BE FLAME CUT THRU STEEL UNLESS APPROVED BY THE ENGINEER.
- HOT-DIP GALVANIZE ALL ITEMS UNLESS OTHERWISE NOTED, AFTER FABRICATION WHERE PRACTICABLE. GALVANIZING: ASTM A123, ASTM A153/A153M OR ASTM A653/A653M, G90, AS APPLICABLE.
- REPAIR DAMAGED SURFACES WITH GALVANIZING REPAIR METHOD AND PAINT CONFORMING TO ASTM A780 OR BY APPLICATION OF STICK OR THICK PASTE MATERIAL SPECIFICALLY DESIGNED FOR REPAIR OF GALVANIZING. CLEAN AREAS TO BE REPAIRED AND REMOVE SLAG FROM WELDS. HEAT SURFACES TO WHICH STICK OR PASTE MATERIAL IS APPLIED, WITH A TORCH TO A TEMPERATURE SUFFICIENT TO MELT THE METALLICS IN STICK OR PASTED; SPREAD MOLTEN MATERIAL UNIFORMLY OVER SURFACES TO BE COATED AND WIPE OFF EXCESS MATERIAL.
- A NUT LOCKING DEVICE SHALL BE INSTALLED ON ALL PROPOSED AND/OR REPLACED BOLTS.
- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH TO EXCLUDE THE THREADS FROM THE SHEAR PLANE.
- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT BE AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
- ALL ASSEMBLY BOLTS ARE TO BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED IN SECTION 8.1 OF THE AISC, "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", DATED JUNE 30, 2004.
- FLAT WASHERS ARE TO BE INSTALLED WITH BOLTS OVER SLOTTED HOLES.
- DO NOT OVER TORQUE ASSEMBLY BOLTS. GALVANIZING ON BOLTS, NUTS, AND STEEL PARTS; MAY ACT AS A LUBRICANT, THUS OVER TIGHTENING MAY OCCUR AND MAY CAUSE BOLTS TO CRACK AND SNAP OFF.
- PAL NUTS ARE TO BE INSTALLED AFTER NUTS ARE TIGHT AND WITH EDGE LIP OUT. PAL NUTS ARE NOT REQUIRED WHEN SELF-LOCKING NUTS ARE PROVIDED.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) D1.1-2010 STRUCTURAL WELDING CODE - STEEL.

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ENGLEWOOD, COLORADO 80112

FOR CONSTRUCTION



Designed by

Jordan Phillips

8718DC9510554AE...  
DATE SIGNED: 10/15/20  
PE LICENSE RENEWAL: 10/31/21

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GENERAL NOTES

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GN-1