



TOWN OF JACKSON PLANNING & BUILDING DEPARTMENT

TRANSMITTAL MEMO

Town of Jackson

- Public Works/Engineering
- Building
- Title Company
- Town Attorney
- Police

Joint Town/County

- Parks and Recreation
- Pathways
- Joint Housing Dept

Teton County

- Planning Division

- Engineer
- Surveyor- *Nelson*
- Assessor
- Clerk and Recorder
- Road and Levee

State of Wyoming

- Teton Conservation
- WYDOT
- TC School District #1
- Game and Fish
- DEQ

Federal Agencies

- Army Corp of Engineers

Utility Providers

- Qwest
- Lower Valley Energy
- Bresnan Communications

Special Districts

- START
- Jackson Hole Fire/EMS
- Irrigation Company

Date: April 28, 2023	REQUESTS:
Item #: P23-083	The applicant is submitting a request for a Basic Use Permit to modify existing wireless communication facility located at 160 S Millward Ave. legally known as LOTS 7,8,9,10 WORT-2 (PARKING GARAGE), PIDN: 22-41-16-33-1-08-003
Planner: Katelyn Page	For questions, please call Katelyn Page at 307-733-0440, x1302 or email to the address shown below. Thank you.
Phone: 307-733-0440 ext. 1302	
Email: kpage@jacksonwy.gov	
Owner Town of Jackson 150 E Pearl Ave. Jackson, WY 83001	
Applicant: Verizon / Elevation Companies 4610 S Ulster St. STE 150 Denver, CO 80237	
Please respond by: May 12, 2023 (Sufficiency) May 18, 2023 (with Comments)	

Owner

Town of Jackson
150 E Pearl Ave.
Jackson, WY 83001

Applicant:

Verizon / Elevation Companies
4610 S Ulster St. STE 150
Denver, CO 80237

The applicant is submitting a request for a Basic Use Permit to modify existing wireless communication facility located at 160 S Millward Ave. legally known as LOTS 7,8,9,10 WORT-2 (PARKING GARAGE), PIDN: 22-41-16-33-1-08-003

For questions, please call Katelyn Page at 307-733-0440, x1302 or email to the address shown below. Thank you.

RESPONSE: For Departments not using Trak-it, please send responses via email to:
alangley@jacksonwy.gov



PLANNING PERMIT APPLICATION
Planning & Building Department

150 E Pearl Ave. | ph: (307) 733-0440
P.O. Box 1687 | www.townofjackson.com
Jackson, WY 83001

For Office Use Only

Fees Paid _____

Date & Time Received _____

Application #s _____

Please note: Applications received after 3 PM will be processed the next business day.

PROJECT.

Name/Description: _____

Physical Address: _____

Lot, Subdivision: _____ PIDN: _____

PROPERTY OWNER.

Name: _____ Phone: _____

Mailing Address: _____ ZIP: _____

E-mail: _____

APPLICANT/AGENT.

Name: _____ Phone: _____

Mailing Address: _____ ZIP: _____

E-mail: _____

DESIGNATED PRIMARY CONTACT.

_____ Property Owner _____ Applicant/Agent

TYPE OF APPLICATION. Please check all that apply; review the type of application at www.townofjackson.com/200/Planning

Use Permit

Basic Use

Conditional Use

Special Use

Relief from the LDRs

Administrative Adjustment

Variance

Beneficial Use Determination

Appeal of an Admin. Decision

Physical Development

Sketch Plan

Development Plan

Design Review

Subdivision/Development Option

Subdivision Plat

Boundary Adjustment (replat)

Boundary Adjustment (no plat)

Development Option Plan

Interpretations

Formal Interpretation

Zoning Compliance Verification

Amendments to the LDRs

LDR Text Amendment

Map Amendment

Miscellaneous

Other: _____

Environmental Analysis

PRE-SUBMITTAL STEPS. To see if pre-submittal steps apply to you, go to www.townofjackson.com/200/Planning and select the relevant application type for requirements. Please submit all required pre-submittal steps with application.

Pre-application Conference #: _____ Environmental Analysis #: _____
Original Permit #: _____ Date of Neighborhood Meeting: _____

SUBMITTAL REQUIREMENTS. Please ensure all submittal requirements are included. The Planning Department will not hold or process incomplete applications. Partial or incomplete applications will be returned to the applicant. Go to www.townofjackson.com/200/Planning and select the relevant application type for submittal requirements.

Have you attached the following?

Application Fee. Fees are cumulative. Go to www.townofjackson.com/200/Planning and select the relevant application type for the fees.

Notarized Letter of Authorization. A notarized letter of consent from the landowner is required if the applicant is not the owner, or if an agent is applying on behalf of the landowner. Please see the Letter of Authorization template at <http://www.townofjackson.com/DocumentCenter/View/845/LetterOfAuthorization-PDF>.

Response to Submittal Requirements. The submittal requirements can be found on the TOJ website for the specific application. If a pre-application conference is required, the submittal requirements will be provided to applicant at the conference. The submittal requirements are at www.townofjackson.com/200/Planning under the relevant application type.

Note: Information provided by the applicant or other review agencies during the planning process may identify other requirements that were not evident at the time of application submittal or a Pre-Application Conference, if held. Staff may request additional materials during review as needed to determine compliance with the LDRs.

Under penalty of perjury, I hereby certify that I have read this application and associated checklists and state that, to the best of my knowledge, all information submitted in this request is true and correct. I agree to comply with all county and state laws relating to the subject matter of this application, and hereby authorize representatives of Teton County to enter upon the above-mentioned property during normal business hours, after making a reasonable effort to contact the owner/applicant prior to entering.



Signature of Property Owner or Authorized Applicant/Agent

_____ Date

Name Printed

_____ Title



4/27/2023

To: Katelyn S. Page

Transmitted via email to Planning@jacksonwy.gov

RE: Verizon Wireless Macro Site Located at: 160 S Millward St Jackson, WY 83001

To Whom It May Concern,

We write to inform you that Verizon Wireless has performed a radio frequency (RF) compliance pre-construction evaluation for the above-noted proposed site and based on the result of the evaluation, the site will be compliant with FCC Guidelines.

The FCC has established safety rules relating to potential RF exposure from cell sites. The rules are codified at 47 C.F.R § 1.1310. The FCC provides guidance on how to ensure compliance with its rules in the FCC Office of Engineering and Technology Bulletin 65 (available at

https://transition.fcc.gov/Bureaus/Engineering_Technology/Documents/bulletins/oet65/oet65.pdf). The FCC

developed the RF standards, known as Maximum Permissible Exposure (MPE) limits, in consultation with numerous other federal agencies, including the Environmental Protection Agency, the Food and Drug Administration, and the Occupational Safety and Health Administration. The FCC provides information about the safety of radio frequency (RF) emissions from cell towers on its website at:

<https://www.fcc.gov/engineering-technology/electromagnetic-compatibility-division/radio-frequency-safety/faq/rf-safety>.

Please refer to the FCC Office of Engineering and Technology Bulletin 65 and the attached Verizon Wireless RF Brochure for information on RF exposure guidelines, RF safety, and landlord responsibilities. Questions related to compliance with federal regulations should be directed to

VZWRFCCompliance@VerizonWireless.com.

Please contact your local Verizon Wireless resource below if you have additional site-specific questions.

Contact Email	Emergency Contact Phone
vzw.mountain.rfsp@verizon.com	800-264-6620

Sincerely,

Jennifer Sedillo

Manager-RF System Design, Verizon

Verizon Wireless 60-Day Eligible Facility Request

Modification of Existing Wireless

Base Station

Request Date: 4/27/23

Jurisdiction: *The Town of Jackson*

Departments: *Town of Jackson Planning Department*

Site Address: *160 S Millward St. Jackson, WY 83001*

Verizon Wireless Contact: *Chris Kennard, Elevation Wireless, (303)913-7527, chris.kennard@elevationcompanies.com*

This document serves as Verizon Wireless's eligible facilities request to modify an existing wireless base station at the above-referenced site address. This eligible facilities request must be approved administratively under Section 6409 of the federal Spectrum Act and Federal Communications Commission ("FCC") rules. Review by the Town of Jackson is limited to determining whether the proposed modification qualifies as an eligible facilities request that does not substantially change the physical dimensions of the wireless base station. All permits necessary to commence construction must be approved within 60 days of the request date set forth above, subject to tolling for incompleteness.

For this request, Verizon Wireless attaches the following applications for all the permits required by the Town of Jackson to commence construction of the modification:

- *Planning Permit Application - BUP*

Verizon Wireless submits the application fees in the amount of \$601 with this application by check or electronic payment.

Project Description

The existing wireless facility owned by *Town of Jackson* was originally permitted through Building Department permit # B17-0607 issued by the Town of Jackson. As currently installed, the facility consists of: *8 Roof mounted antennas, and 12 RRU's*

To accommodate new wireless technologies, Verizon Wireless proposes to *remove the 12 existing RRU's and 4 OVP's. Verizon Wireless will add 3 antennas, 8 RRU's and 4 OVP's*. No additional changes are proposed for the modification.

FCC Rules for Eligible Facilities Requests

The Spectrum Act states that “a State or local government may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station.”¹ An “eligible facilities request” is defined to include any collocation, removal, or replacement of existing equipment.²

The FCC adopted rules providing legally binding guidance on key terms of the Spectrum Act, notably defining “substantial change” with the six thresholds described below.³ The FCC requires that qualifying eligible facilities requests be approved within 60 days, subject to tolling for incompleteness.⁴ The 60-day period begins when an applicant takes the first procedural step required by a local government, and submits written documentation.⁵ The only submittal documents a local government can require are those relevant to determining if a proposed modification qualifies as an eligible facilities request.⁶ If a local government does not render a decision within the 60-day period, an eligible facilities request can be deemed granted by operation of law.⁷

The Proposed Modification Does Not Constitute a “Substantial Change”

Below are the FCC’s six “substantial change” thresholds for a wireless base station,⁸ each followed by an explanation that the proposed modification does not exceed that threshold.

- 1) It increases the height of the structure by more than 10% or more than ten feet, whichever is greater.

The proposed modifications will not increase the height of the existing facility. Please reference page C-4 of the drawings.

- 2) It involves adding an appurtenance to the body of the structure that would protrude from the edge of the structure by more than six feet.

The proposed modifications will not protrude more than 6' from the edge of structure. Please reference page C-2 and C-3 of the drawings.

- 3) It involves the installation of more than the standard number of new equipment cabinets for the technology involved, but not to exceed four;

or, it involves installation of any new equipment cabinets on the ground if there are no pre-existing ground cabinets associated with the structure, or else involves installation of ground cabinets that are more than 10% larger in height or overall volume than any other ground cabinets associated with the structure.

There will not be any new equipment cabinets installed. Verizon will be utilizing existing equipment cabinets. Please reference page C-5 of the drawings.

- 4) It entails any excavation or deployment of transmission equipment outside of the current site by more than 30 feet in any direction. The site boundary from which 30 feet is measured excludes any access or utility easements currently related to the site. The “site” is as defined at 47 C.F.R. § 1.6100(b)(6).

No excavation is required for this modification.

- 5) Would defeat the concealment elements of the eligible support structure.

The proposed modifications will not defeat the concealment elements. Please reference page C-2 and C-3.

- 6) Does not comply with conditions associated with the siting approval of the construction or modification of the existing facility, unless the non-compliance is due only to a change in height, width, etc., that does not exceed the first four thresholds.

There are no prior conditions of approval that would render the modification to be non-compliant, aside from any conditions that would be preempted by the first four “substantial change” thresholds.

Verizon Wireless is providing a radio frequency exposure compliance report prepared by Jennifer Sedillo that confirms that the facility, as modified, will continue to comply with the FCC’s radio frequency exposure limits.

In sum, the modification clearly qualifies as an “eligible facilities request” under the Spectrum Act and FCC rules, because it does not exceed any of the thresholds such that it would “substantially change” the physical dimensions of the existing wireless base station. Failure to process this eligible facilities request and approve all necessary permits within 60 days may result in the request being deemed granted by operation of law.

¹ 47 U.S.C. § 1455(a)(1).

² 47 U.S.C. § 1455(a)(2).

³ See Report and Order FCC 14-153, 29 FCC Rcd. 12865 (FCC October 17, 2014); *see also* Report and Order FCC 20-153, 85 FR 78005 (FCC October 27, 2020).

⁴ See 47 C.F.R. § 1.6100(c)(2), (3).

⁵ Declaratory Ruling 20-75, 35 FCC Rcd 5977, ¶ 16 (FCC June 9, 2020).

⁶ See 47 C.F.R. § 1.6100(c)(1).

⁷ See 47 C.F.R. § 1.6100(c)(4).

⁸ See 47 C.F.R. § 1.6100(b)(7).

RECORDING REQUESTED BY
AND WHEN RECORDED RETURN TO:
Sherman & Howard L.L.C.
633 17th Street, Suite 3000
Denver, Colorado 80202
Attn: Eileen Lynch
Re: WY3 Cutthroat

GRANTOR: TOWN OF JACKSON ET AL
GRANTEE: TOWN OF JACKSON ET AL
Doc 0933232 Filed At 11:59 ON 08/07/17
Sherry L. Daigle Teton County Clerk fees: 153.00
By Mary Smith Deputy

(Space above this line for recorder's use)

MEMORANDUM OF BUILDING AND ROOFTOP LEASE AGREEMENT

This Memorandum of BUILDING AND ROOFTOP LEASE AGREEMENT is made this 7th day of August, 2017, between the Town of Jackson, a Wyoming Municipal Corporation, hereinafter referred to as "LESSOR," and Cellular Inc. Network Corporation d/b/a Verizon Wireless, with offices located at 180 Washington Valley Road, Bedminster, New Jersey 07921, hereinafter referred to as "LESSEE." LESSOR and LESSEE are at times collectively referred to hereinafter as the "Parties" or individually as a "Party."

1. LESSOR and LESSEE entered into a Building and Rooftop Lease Agreement (the "Agreement") on August 7, 2017 for an initial term of five (5) years, commencing on the Commencement Date. The Agreement shall automatically be extended for four (4) additional five (5) year terms unless the LESSEE terminates it at the end of the then current term by giving the LESSOR written notice of the intent to terminate at least three (3) months prior to the end of the then current term.

2. In accordance with the Agreement, LESSOR hereby grant to LESSEE the right to install, maintain and operate communication facility, antennas, enclosures and cabinets and related equipment (collectively the "Wireless Communication Facility") (hereinafter "Permitted Use") in and/or upon that certain building or facility owned, leased or controlled by LESSOR at 160 S. Millward Street, Jackson, Wyoming (the "Property"). The Property is legally described on Exhibit "A" attached hereto and made a part hereof. LESSEE'S Wireless Communication Facility will be installed on a portion of the Property totaling seven hundred and twenty-one square feet of space, including sixty-four (64) square feet of space in the equipment room in the elevator lobby located on the fourth (4th) floor and six hundred and fifty-seven (657) square feet of space located behind a five (5) foot screenwall on the roof of the elevator penthouse, together with access, utilities and related appurtenances thereto (collectively, the "Premises").

3. The Commencement Date of the Agreement, of which this is a Memorandum, is based upon the first day of the month after LESSEE begins installation of LESSEE's Wireless Communication Facility.

4. The terms, covenants and provisions of the Agreement, the terms of which are hereby incorporated by reference into this Memorandum, shall extend to and be binding upon the respective executors, administrators, heirs, successors and assigns of LESSOR and LESSEE.

Site Name: WY3 Cutthroat
096005.119/Memorandum of Building and Rooftop Lease Agreement
Active/45236843.1

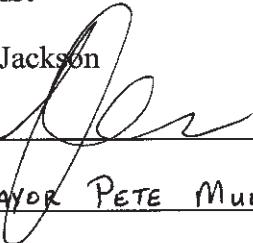
Released	
Indexed	✓
Abstracted	✓
Scanned	

WY3 Cutthroat

IN WITNESS WHEREOF, LESSOR and LESSEE have caused this Memorandum to be duly executed on the date first written hereinabove.

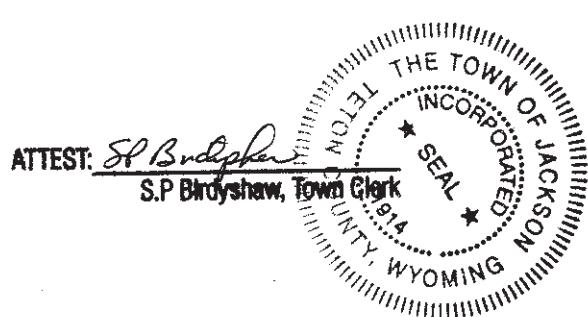
LESSORS:

Town of Jackson

By: 

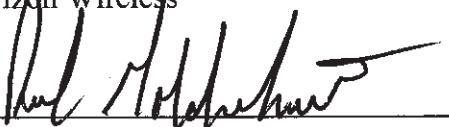
Its: Mayor PETE MULDOON

Date: 8-7-2017



LESSEE:

Cellular Inc. Network Corporation
d/b/a Verizon Wireless

By: 

Rick Goldschmidt

Its: Director Network Field Engineering

Date: 7/1/17

WY3 Cutthroat

STATE OF WYOMING)
COUNTY OF TETON)

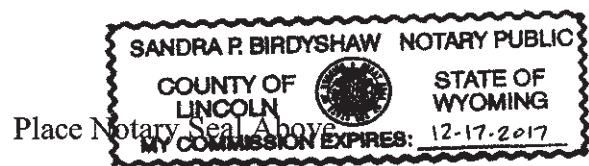
ACKNOWLEDGEMENT

The foregoing instrument was acknowledged before me this 7 day of August,
2017 by Pete Muldoon, as Mayor of the Town of Jackson.

WITNESS my hand and official seal.

Sandra Birdy
Notary Public

My Commission Expires: 12-17-2017



STATE OF Colorado)
COUNTY OF Arapahoe)

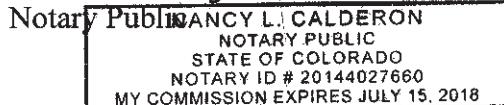
ACKNOWLEDGEMENT

The foregoing instrument was acknowledged before me this 21st day of July,
2017 by Rick Goldschmidt, as Director Network Field Engineering Cellular Inc. Network
Corporation.

WITNESS my hand and official seal.

Mary L. Calderon

My Commission Expires: July 15, 2018



Place Notary Seal Above

WY3 Cutthroat

EXHIBIT A

Lots 7, 8, 9 and 10 of Block 2 of the Second Wort Addition to the Town of Jackson, Teton County, Wyoming, according to that plat recorded September 28, 1940 as Plat No. 129.

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CUTTHROAT VZW SITE UPGRADES SITE MODIFICATION REQUEST

SITE ADDRESS

160 S MILLWARD ST
JACKSON, WY 83001

PROJECT TEAM

Kimley»Horn KIMLEY HORN AND ASSOCIATES, INC.
4582 SOUTH ULSTER ST, SUITE 1500
DENVER, CO 80237
ATTN: MATT FLECK - (720) 647-6159

verizon[®] VERIZON WIRELESS
9656 S PROSPERITY RD
WEST JORDAN, UT 84081

VERIZON CONSTRUCTION:
CONSTRUCTION ENGINEER
CLIFF HIEB
CLIFFORD.HIEBJR@VERIZONWIRELESS.COM

VERIZON RF ENGINEER:
BENJAMIN FLOYD
BENJAMIN.FLOYD@VERIZONWIRELESS.COM

VERIZON REAL ESTATE:
PAIGE GARDINER
PAIGE.GARDINER@VERIZONWIRELESS.COM

SITE ACQ. AGENT - FOR VZW
ELEVATION WIRELESS
CHRIS KENNARD
CHRIS.KENNARD@ELEVATIONCOMPANIES.COM

PROJECT INFORMATION

SITE NAME: CUTTHROAT
JURISDICTION: JACKSON, WY
OCCUPANCY: B-UNMANNED
TOP OF ANTENNA: 56'-7"
TOP OF BUILDING HEIGHT: 56'-7" (T.O. STEALTH BUILDING EXTENSION)
NUMBER OF STORIES: N/A
GROSS BUILDING AREA: N/A
OCCUPANT LOAD: 2 / UNMANNED
BUILDING CODE: IBC 2021 WITH LOCAL AMENDMENTS
ELEVATION: (NAVD 88) 6234'
DESIGN WIND SPEED: 99 MPH

CONTRACTOR PMI REQUIREMENTS

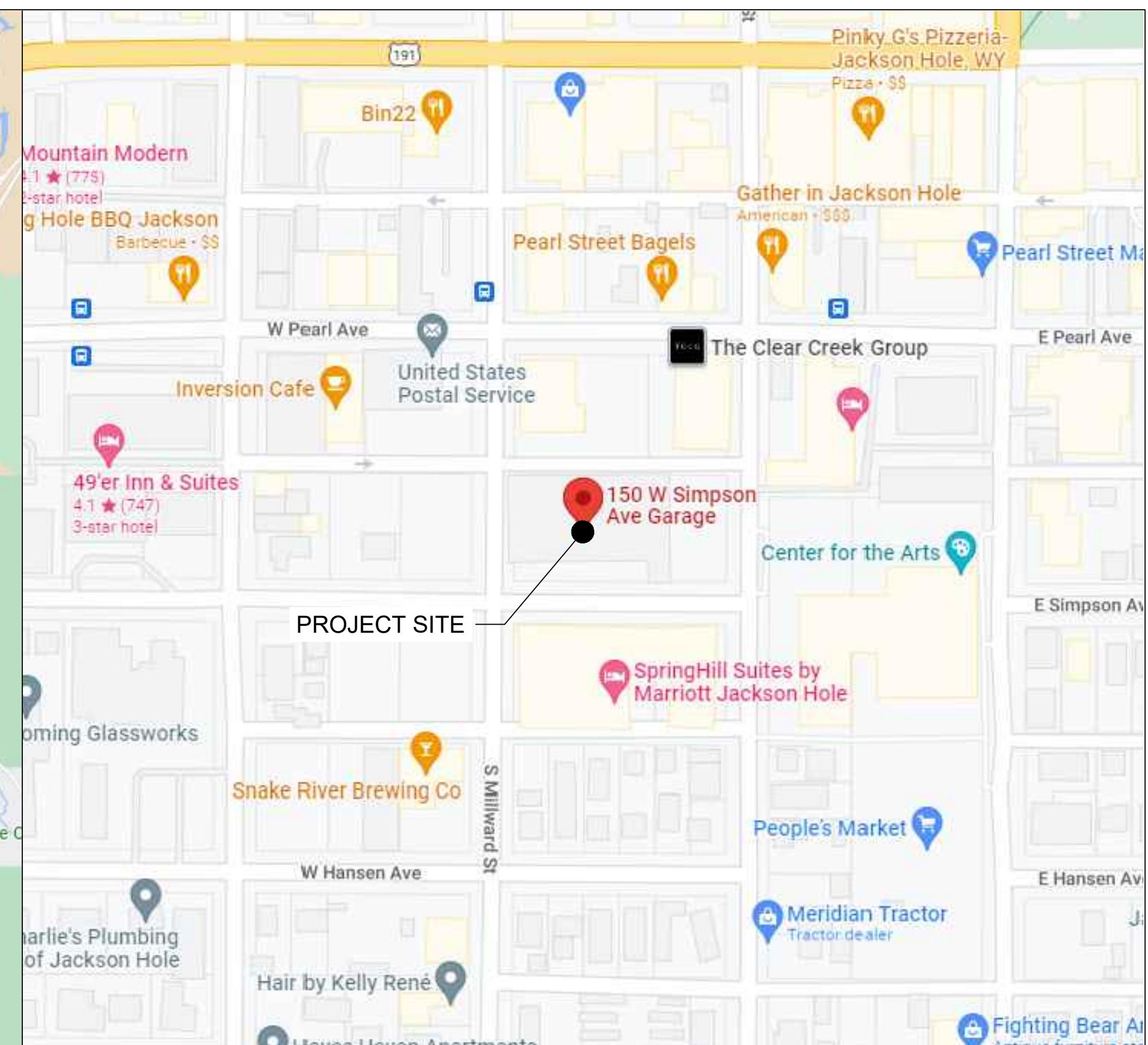
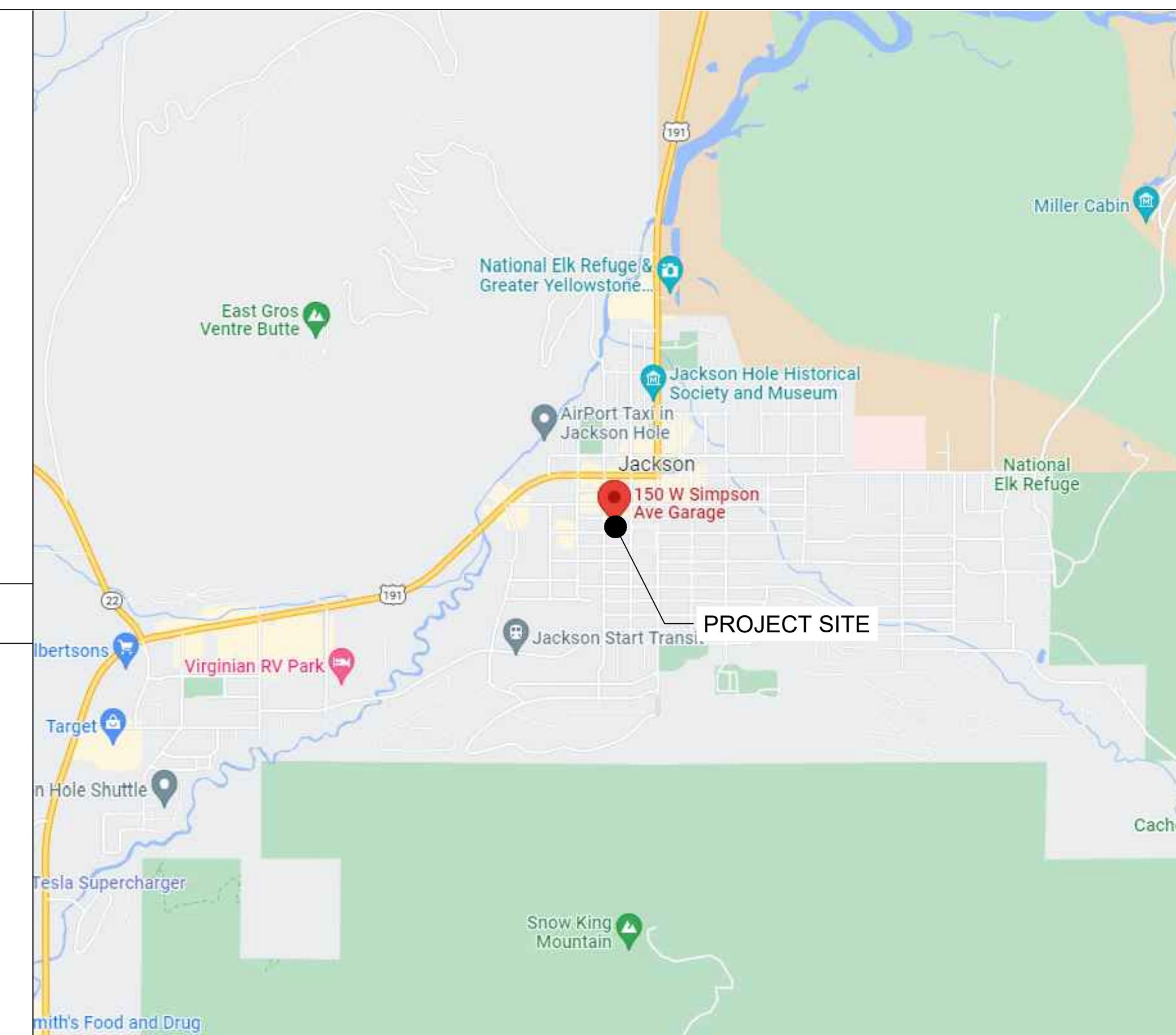
PMI DOCUMENTATION: MOUNT-SUPPORT@KIMLEY-HORN.COM
PROJECT NUMBER: 16948673
VERIZON LOCATION CODE (PSLC): 273596
*** PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT

MOUNT MODIFICATION REQUIRED

YES

VERIZON APPROVED VENDORS

* REFER TO MOUNT MODIFICATION DRAWINGS



REGIONAL MAP

VICINITY MAP

SHEET INDEX

NAME	DESCRIPTION
T-1	TITLE SHEET
N-1	GENERAL NOTES I
N-2	GENERAL NOTES II
C-1	SITE PLAN
C-2	ENLARGED SITE PLAN
C-3	ENLARGED SITE PLAN
C-4	PROPOSED ELEVATION PLAN

C-5	EQUIPMENT ROOM PLAN
C-6	EME PLAN
C-7	CABLE DIAGRAM
C-8	ANTENNA & CABLE SCHEDULE
C-9	MOUNTING DETAILS
C-10	GROUNDING DETAILS
C-11	GROUNDING DETAILS
C-12	LOW PIM MOUNTING DETAILS
C-13	MOUNTING DETAILS
C-14	EXISTING SECTOR PHOTOS

PMI-1	PMI REPORT REQUIREMENTS
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CODE ANALYSIS

FIRE SAFETY CODE: IFC 2021
BUILDING CODE: IBC 2021 WITH LOCAL AMENDMENTS
USE GROUP: U-UTILITY
ELECTRICAL CODE: NEC 2020
CONSTRUCTION TYPE: IIB

PROJECT SUMMARY

THIS PROJECT CONSISTS OF A SITE IMPROVEMENTS/MODIFICATION FOR A WIRELESS FACILITY SITE FOR VERIZON WIRELESS. ALL WORK INCLUDES:

TO BE REMOVED:

- (12)-RADIOS
- (4)-3315 OVPS

TO BE INSTALLED:

- (3)-AIR6449 ANTENNAS
- (4)-4449 RADIOS
- (4)-8843 RADIOS
- (1)-6648 BBU
- (4)-6627 OVPS

REFERENCED DOCUMENTS:

RFDS: 07/20/2022 EME: 03/16/2023 MACRO CALC: XX/XX/XXXX
MA: 12/22/2022 SOL: 12/22/2022

VERIFY THE MOST CURRENT DOCUMENTS PRIOR TO CONSTRUCTION

ANTENNA AND EQUIPMENT PAINT SPECIFICATION REQUIRED

NO

DRIVING DIRECTIONS

- START FROM 9656 S PROSPERITY ROAD
- HEAD SOUTH TOWARD 6200 W/S PROSPERITY RD
- TURN LEFT ONTO 6200 W/S PROSPERITY RD
- TURN RIGHT ONTO UT-48 E
- USE THE LEFT 2 LANES TO TURN LEFT ONTO UT-85/MOUNTAIN VIEW CORRIDOR/N MOUNTAIN VV
- TAKE THE RAMP ONTO UT-201 E
- MERGE ONTO UT-201 E
- TAKE EXIT 15B TO MERGE ONTO I-215 N
- KEEP RIGHT TO STAY ON I-215 N, MERGE ONTO I-15 N
- USE THE RIGHT 2 LANES TO TAKE THE I-15 N EXIT TOWARD POCATELLO
- TAKE EXIT 44 TOWARD I-15 BUS/MCCAMMON
- TURN RIGHT ONTO E JENSEN RD
- TURN LEFT ONTO STATE ST
- TURN RIGHT ONTO E PRICE RD
- TURN RIGHT ONTO US-30 E
- TURN LEFT ONTO S 3RD ST E
- TURN RIGHT AT THE 1ST CROSS STREET ONTO ID-34 E/E HOOVER AVE
- TURN LEFT ONTO STATE LINE RD/STATE LINE CO RD 114
- TURN RIGHT ONTO CREAMERY RD
- TURN LEFT ONTO US-89 N
- TURN RIGHT ONTO US-26 E/US-89 N
- AT THE TRAFFIC CIRCLE, TAKE THE 2ND EXIT ONTO US-189 N/US-191 N/US-26 E/US-89 N
- TURN RIGHT ONTO W PEARL AVE
- TURN RIGHT ONTO S MILLWARD ST
- SITE WILL BE ON THE LEFT AFTER 259 FT



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9656 SOUTH PROSPERITY ROAD, WEST JORDAN, UTAH 84088

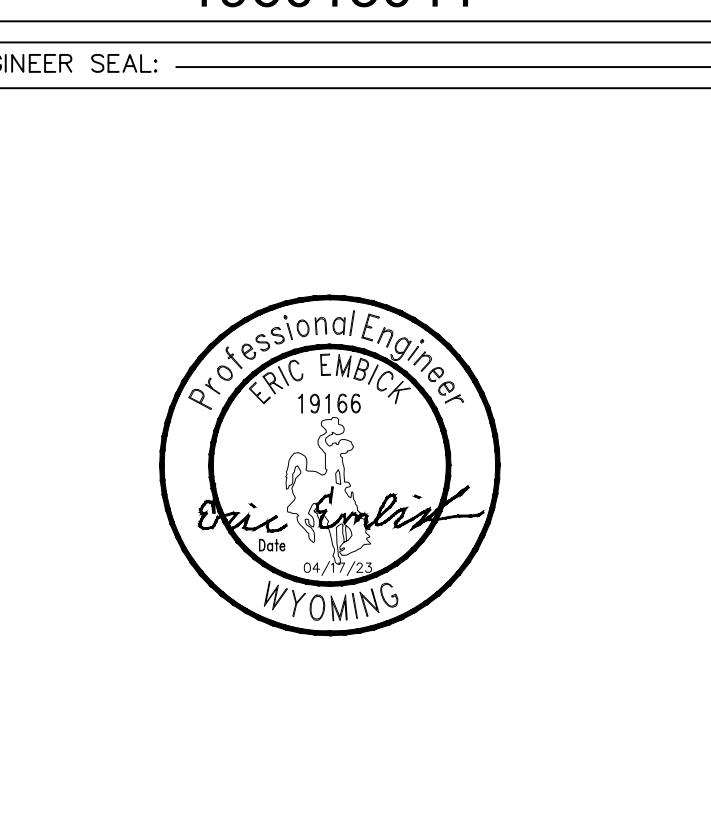
Kimley»Horn

4582 S ULSTER ST. #1500
DENVER, CO 80237
PHONE (303) 228-2300
WWW.KIMLEY-HORN.COM

REV: ____ DATE: ____ DESCRIPTION: ____ BY: ____

MAK MFF

KHA PROJECT NUMBER: 196015041



CUTTHROAT

160 S MILLWARD ST
JACKSON, WY 83001
TETON COUNTY

SHEET TITLE: ____

TITLE SHEET

SHEET NUMBER: T-1

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
GENERAL CONTRACTOR
CONTRACTOR: (CONSTRUCTION)
OWNER – VERIZON
2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND VERIZON PROJECT SPECIFICATIONS.
3. GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL BE FAMILIAR WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR BEING FAMILIAR WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
5. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. PLANS ARE NOT TO BE SCALLED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING.
10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
11. GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
12. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
13. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. CONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
14. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
15. CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
16. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
17. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
18. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
19. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
20. THE GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OT 2-A:10-B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
21. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.

STRUCTURAL STEEL NOTES:

1. DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/TIA-222 OR APPLICABLE LOCAL CODES.
2. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS NOTED OTHERWISE.
3. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS NOTED OTHERWISE.
4. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
5. ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH LOCK NUTS, DOUBLE NUTS AND SHALL BE TORQUED TO MANUFACTURER'S RECOMMENDATIONS.
6. CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND GROUNDING.
7. PRIOR TO SETTING ANTENNA AZIMUTHS AND DOWNTILTS, ANTENNA CONTRACTOR SHALL CHECK THE ANTENNA MOUNT FOR TIGHTNESS AND ENSURE THAT THEY ARE PLUMB, ANTENNA AZIMUTHS SHALL BE SET FROM TRUE NORTH.

CODES:

1. AT A MINIMUM, ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - A. IBC 2021 VERSION OF THE INTERNATIONAL BUILDING CODE.
 - B. NEC 2020 VERSION OF THE NATIONAL ELECTRIC CODE.
 - C. FOR VERIZON STANDARDS USE NETWORK STANDARD VERIZON GUIDELINES.
 - D. AMERICAN CONCRETE INSTITUTE, ACI 318-19, STANDARD BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
 - E. AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC 9TH EDITION, MANUAL OF STEEL CONSTRUCTION.
 - F. AMERICAN WELDING SOCIETY, AWS D1.1 2002 EDITION, STRUCTURAL WELDING CODE.
 - G. STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS: ANSI/TIA-222-H-2017
 - H. FIRE SAFETY CODE/IFC 2021

COAXIAL CABLE NOTES:

1. TYPES AND SIZES OF THE ANTENNA CABLE ARE BASED ON ESTIMATED LENGTHS. PRIOR TO ORDERING CABLE, CONTRACTOR SHALL VERIFY ACTUAL LENGTH BASED ON CONSTRUCTION LAYOUT AND NOTIFY THE PROJECT MANAGER IF ACTUAL LENGTHS EXCEED ESTIMATED LENGTHS.
2. TYPES AND SIZES OF THE ANTENNA CABLE ARE BASED ON ESTIMATED LENGTHS. PRIOR TO ORDERING CABLE, CONTRACTOR SHALL VERIFY ACTUAL LENGTH BASED ON CONSTRUCTION LAYOUT AND NOTIFY THE PROJECT MANAGER IF ACTUAL LENGTHS EXCEED ESTIMATED LENGTHS.
3. CONTRACTOR SHALL VERIFY THE DOWN-TILT OF EACH ANTENNA WITH A DIGITAL LEVEL.
4. ALL COAXIAL CABLE SHALL BE SECURED TO THE DESIGNED SUPPORT STRUCTURE, IN AN APPROVED MANNER, AT DISTANCES NOT TO EXCEED 4'-0" OC.
5. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS REGARDING BOTH THE INSTALLATION AND GROUNDING OF ALL COAXIAL CABLES, CONNECTORS, ANTENNAS, AND ALL OTHER EQUIPMENT.
6. CONTRACTOR SHALL WEATHERPROOF ALL ANTENNA CONNECTORS WITH SELF AMALGAMATING TAPE.

GENERAL CABLE & EQUIPMENT NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ANTENNA, TMAS, DIPLEXERS, AND COAX CONFIGURATION, MAKE AND MODELS PRIOR TO INSTALLATION.
2. ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
3. CONTRACTOR SHALL REFER TO THE STRUCTURAL ANALYSIS / DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION / ROUTING.
4. ALL OUTDOOR RF CONNECTORS/CONNECTIONS SHALL BE WEATHERPROOFED, EXCEPT THE RET CONNECTORS, USING BUTYL TAPE AFTER INSTALLATION AND FINAL CONNECTIONS ARE MADE. BUTYL TAPE SHALL HAVE A MINIMUM OF ONE-HALF TAPE WIDTH OVERLAP ON EACH TURN AND EACH LAYER SHALL BE WRAPPED THREE TIMES. WEATHERPROOFING SHALL BE SMOOTH WITHOUT BUCKLING. BUTYL BLEEDING IS NOT ALLOWED.
5. IF REQUIRED TO PAINT ANTENNAS AND/OR COAX:
 - A. TEMPERATURE SHALL BE ABOVE 50° F.
 - B. PAINT COLOR MUST BE APPROVED BY BUILDING OWNER/LANDLORD.
 - C. FOR REGULATED TOWERS, FAA/FCC APPROVED PAINT IS REQUIRED.
 - D. DO NOT PAINT OVER COLOR CODING OR ON EQUIPMENT MODEL NUMBERS.
6. ALL PROPOSED GROUND BAR DOWNLEADS ARE TO BE TERMINATED TO THE EXISTING ADJACENT GROUND BAR DOWNLEADS A MINIMUM DISTANCE OF 4'-0" BELOW GROUND BAR. TERMINATIONS MAY BE EXOTHERMIC OR COMPRESSION.
7. ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATION & RECOMMENDATIONS.

RF CONNECTOR REQUIREMENTS:

1. ALL RF CONNECTIONS SHALL BE TIGHTENED BY A TORQUE WRENCH.
2. ALL RF CONNECTIONS, GROUNDING HARDWARE AND ANTENNA HARDWARE SHALL HAVE A TORQUE MARK INSTALLED IN A CONTINUOUS STRAIGHT LINE FROM BOTH SIDES OF THE CONNECTION.
 - A. RF CONNECTION BOTH SIDES OF THE CONNECTOR.
 - B. GROUNDING AND ANTENNA HARDWARE ON THE NUT SIDE STARTING FROM THE THREADS TO THE SOLID SURFACE. EXAMPLE OF SOLID SURFACE: GROUND BAR, ANTENNA BRACKET METAL.
3. ALL 8M ANTENNA HARDWARE SHALL BE TIGHTENED TO 9 LB-FT (12 NM).
4. ALL 12M ANTENNA HARDWARE SHALL BE TIGHTENED TO 43 LB-FT (58 NM).
5. ALL GROUNDING HARDWARE SHALL BE TIGHTENED UNTIL THE LOCK WASHER COLLAPSES AND THE GROUNDING HARDWARE IS NO LONGER LOOSE.
6. ALL DIN TYPE CONNECTIONS SHALL BE TIGHTENED TO 18-22 LB-FT (24.4 – 29.8 NM).
7. ALL N TYPE CONNECTIONS SHALL BE TIGHTENED TO 15-20 LB-IN (1.7 – 2.3 NM)

ABBREVIATIONS LIST:

VZW – VERIZON WIRELESS
FCC – FEDERAL COMMUNICATIONS COMMISSION
POC – POINT OF CONNECTION
RF – RADIO FREQUENCY
R.O.W. – RIGHT OF WAY
E.O.P. – EDGE OF PAVEMENT
NEC – NATIONAL ELECTRIC CODE
TIA – TELECOMMUNICATIONS INDUSTRY ASSOCIATION
A – AMPS
V – VOLTS
PVC – POLYVINYL CHLORIDE

COLOR STANDARDS

GRAY #1 (E) EASEMENT		ORANGE FIBER	
PURPLE (P) LEASE AREA		TAN ANTENNAS	
BLUE GRAY ACCESS/UTILITY		RED PENETRATIONS	
BLUE #1 HYBRID CABLES/COAX		UMBER (P) UTILITY EASEMENT	
BLUE #2 RRHs		GRAY #2 WALL HATCH	
GREEN DC POWER		GRAY #3 EXISTING	

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REV: _____ DATE: _____ DESCRIPTION: _____ BY: _____

DRAWN BY: **MAK** CHECKED BY: **MFF**

KHA PROJECT NUMBER: **196015041**

ENGINEER SEAL:



PROJECT INFORMATION:

CUTTHROAT

160 S MILLWARD ST
JACKSON, WY 83001
TETON COUNTY

SHEET TITLE:

GENERAL NOTES I

SHEET NUMBER:

N-1

DEMOLITION:

- EXISTING WORK SITE CONDITIONS TO REMAIN SHALL BE PROTECTED FROM DAMAGE, WORK DAMAGED BY CONTRACTOR SHALL BE REPAIRED TO MATCH EXISTING WORK.
- AT THE END OF EACH WORK DAY AND DURING INCLEMENT WEATHER, CLOSE ALL EXTERIOR OPENINGS WITH WEATHERPROOF COVER.
- DEMOLITION SHALL BE CONTROLLED TO PREVENT THE SPREAD OF DUST. REMOVE DEBRIS AND RUBBISH FROM THE SITE DAILY. DO NOT ALLOW DEBRIS AND TRASH TO ACCUMULATE ON SITE.
- INSPECTIONS: REQUIRED BUILDING INSPECTORS SHALL BE ARRANGED NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS. UNLESS OTHERWISE SPECIFIED BY JURISDICTION.
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. ALL DISTURBED LANDSCAPING SHALL BE REPLACED, RESERVED, AND REGROWN TO MATCH THE ORIGINAL CONDITIONS. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER RUBBISH SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.

GROUNDING NOTES:

- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRIC CODE.
- ALL GROUNDING DEVICES SHALL BE UL APPROVED OR LISTED FOR THEIR INTENDED USE.
- ALL WIRES SHALL BE AWG THHN/THWN COPPER UNLESS NOTED OTHERWISE.
- GROUND WIRES SHALL BE #2 AWG BARE SOLID COPPER UNLESS NOTED OTHERWISE.
- GROUNDING CONNECTIONS SHALL BE EXOTHERMIC (CADWELDS) TO GROUND RODS, GROUND RING WIRE, AND FENCE POSTS UNLESS NOTED OTHERWISE. CLEAN SURFACES TO SHINY METAL WHERE GROUND WIRES ARE CADWELDED TO GALVANIZED SURFACES, SPRAY CADWELD WITH GALVANIZED PAINT.
- 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 ANTI-OXIDANT COATING.
- GROUND CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 8" RADIUS.
- 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 APPROVED EQUAL.
- PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION APPLY APPROPRIATE ANTI-OXIDATION PAINT.

RACEWAY NOTES:

- CONDUIT AND CONDUIT FITTINGS SHALL MEET ANSI AND NEC STANDARDS FOR MATERIALS AND WORKMANSHIP AND SHALL BE UL LISTED.
 - RIGID STEEL CONDUIT (FOR ALL ABOVE GRADE WORK) SHALL CONFORM TO ANSI C80-1 AND THE REQUIREMENTS OF NEC PARAGRAPH 346 AND BE STANDARD WEIGHT, MILD RIGID STEEL, HOT DIP GALVANIZED WITH INSIDE AND OUTSIDE FINISHED WITH A PROTECTIVE ZINC COATING COUPLING, ELBOWS AND BENDS SHALL MEET THESE SAME REQUIREMENTS. FITTINGS SHALL BE OF THE GALVANIZED IRON OR STEEL THREADED TYPE.
 - PVC CONDUIT (FOR UNDERGROUND WORK) SHALL CONFORM TO UL STANDARD 651-89 AND THE REQUIREMENTS OF NEC. PARAGRAPH 347. CONDUIT SHALL BE HEAVY WALL TYPE, SCHEDULE 80, AND SUNLIGHT RESISTANT. FITTINGS SHALL BE OF THE UNTHEREADED SOLVENT CEMENT TYPE.
 - EMT CONDUIT (FOR USE BEHIND WALLS OR ABOVE SUSPENDED CEILINGS ONLY), ELECTRIC METALLIC TUBING SHALL CONFORM TO ANSI C80.3 AND THE REQUIREMENTS OF NEC, PARAGRAPH 348 AND BE PROTECTED ON EXTERIOR WITH A ZINC COATING AND ON INTERIOR SURFACES WITH EITHER A ZINC COATING OR LACQUER ENAMEL. FITTINGS SHALL BE ZINC COATED STEEL. MINIMUM CONDUIT SIZE SHALL BE 3/4 INCH, SIZES NOT SHOWN ON DRAWINGS SHALL BE PER NEC.
- ALL SPARE CONDUITS SHALL HAVE A METALLIC OR MULL TAPE.
- CONDUIT SUPPORTS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AND IN ACCORDANCE WITH THE NEC.

HOLES, SLEEVES AND OPENINGS:

- PROVIDE ALL HOLES, SLEEVES, AND OPENINGS REQUIRED FOR THE COMPLETION OF WORK AND RESTORE ALL SURFACES DAMAGED TO MATCH EXISTING AND SURROUNDING SURFACES. MAINTAIN INTEGRITY FOR ALL FIRE AND SMOKE RATED BARRIERS USING APPROVED FIRE STOPPING SYSTEMS.
- WHEN CUTTING HOLES, SLEEVES, AND OPENINGS CONTRACTOR SHALL NOT CUT, DAMAGE OR DISTURB STRUCTURAL ELEMENT OR REINFORCING STEEL UNLESS APPROVED IN WRITING BY THE PROJECTS STRUCTURAL ENGINEER.
- CONDUIT PENETRATIONS CORE DRILLING HOLES SHALL BE SIZED SO THAT AN ANNULAR SPACE OF NOT LESS THAN 1/4 INCH AND NOT MORE THAN 1 INCH IS LEFT AROUND THE CONDUIT, PIPE, ETC. WHEN OPENINGS ARE CUT IN LIEU OF CORE DRILLED, PROVIDE SLEEVE IN ROUGH OPENING. SIZE SLEEVES TO PROVIDE AN ANNULAR SPACE OF NOT LESS THAN 1/4 INCH AND NOT MORE THAN 1 INCH AROUND THE CONDUIT, PIPE, ETC. PATCH AROUND THE SLEEVE TO MATCH SURROUNDING SURFACES.

CONDUCTOR NOTES:

- ALL POWER, CONTROL AND COMMUNICATION WIRING SHALL MEET REQUIRED NEMA-RATINGS, ASTM, UL, AND NEC STANDARDS FOR MATERIAL AND WORKMANSHIP UNLESS OTHERWISE SPECIFIED.
 - SERVICE ENTRANCE CONDUCTORS SHALL BE COPPER, 200 VOLT, SUNLIGHT RESISTANT, SUITABLE FOR WET LOCATIONS, TYPE USE-2. THE GROUNDED NEUTRAL CONDUCTOR SHALL BE IDENTIFIED WHITE MARKING AT EACH TERMINATION.
 - CONDUCTORS FOR FEEDER AND BRANCH CIRCUITS SHALL COPPER 200 VOLT, TYPE THHN/THWN WITH A MINIMUM SIZE OF #12 AWG.
- ALL CONDUCTOR ACCESSORIES INCLUDING CONNECTORS, INSULATING MATERIALS, SUPPORT GRIPS, MARKER AND CABLE SHALL BE FURNISHED AND INSTALLED. THE SUPPLIERS INSTALLATION INSTRUCTIONS SHALL BE OBTAINED FOR CABLE ACCESSORIES. INSTRUCTIONS SHALL BE IN THE POSSESSION OF THE CRAFTSMAN INSTALLING THE ACCESSORIES AND SHALL BE AVAILABLE TO THE COMPANY FOR REFERENCE.
- TERMINAL CONNECTORS FOR CONDUCTORS SMALLER THAN 8 AWG SHALL BE COMPRESSION TYPE CONNECTORS SIZED FOR THE CONDUCTOR AND THE TERMINAL. THE CONNECTORS SHALL BE CONSTRUCTED OF FINE GRADE HIGH CONDUCTIVITY COPPER IN ACCORDANCE WITH QQ-C-576 AND SHALL BE TIN-PLATED IN ACCORDANCE WITH MIL-T-10727. INTERIOR SURFACE OF THE CONNECTOR WIRE BARREL SHALL SERRATED, AND THE EXTERIOR SURFACE OF THE CONNECTOR BARREL SHALL BE PROVIDED WITH CRIMP GUIDES.
- TERMINAL CONNECTORS FOR CONDUCTORS 8 AWG AND LARGER SHALL BE PRESSURE OR BOLTED CLAMP TYPE, BURNDY QUIKLUK, ARILOG OR ACCEPTABLE EQUAL; OR COMPRESSION TYPE; BURNDY TYPE YAV OFR YA (LONG BARREL), PANDUIT TYPE LCA OR LCC, OR ACCEPTABLE EQUAL. ACCEPTABLE CONNECTORS INCLUDED WITH COMPANY-FURNISHED EQUIPMENT MAY BE USED.
- TERMINATION PROVISIONS OF EQUIPMENT FOR CIRCUITS RATED 100 AMPERES OR LESS, OR MARKED FOR NOS. 14 THROUGH 1 CONDUCTORS, SHALL BE USED ONLY FOR CONDUCTORS RATED 60 DEG. C (140 DEG F). CONDUCTORS WITH HIGHER TEMPERATURE SHALL BE PERMITTED, PROVIDED THE AMPACITY OF EACH CONDUCTOR IS DETERMINED BASED ON THE 60 DEG.C (140 DEG.F) AMPACITY CONDUCTOR SIZE USED.
- TERMINATION PROVISIONS OF EQUIPMENT FOR CIRCUITS RATED AMPERES, OR MARKED FOR CONDUCTORS LARGER THAN:
 - SHALL BE USED ONLY FOR CONDUCTORS RATED 75 DEG.C (167 DEG.F). CONDUCTORS WITH HIGH TEMPERATURE RATINGS SHALL BE PERMITTED, PROVIDED THE AMPACITY OF EACH CONDUCTOR IS DETERMINED BASE ON THE 75 DEG.C (167 DEG.F) AMPACITY CONDUCTOR SIZE USED.
- ALL 600 VOLT OR LESS WIRING, WHERE COMPRESSION TYPE CONNECTORS ARE USED, SHALL BE INSULATED WITH AT LEAST ONE TURN OF "SCOTCHFILL" 200 AMP ELECTRICAL INSULATING PUTTY THEN COVERED WITH TWO HALF TURNS OF TAPE SIMILAR TO 3M COMPANY'S "33 PLUS" (33+) PLASTIC TAPE OR 88 OUTDOOR.
- THE ELECTRICAL SERVICE TO THE SITE SHALL BE GROUNDED AT THE SERVICE DISCONNECTING MEANS REQUIRED IN ARTICLE 250 OF NATIONAL ELECTRICAL CODE, IN ACCORDANCE AND ANY LOCAL CODE.
- ALL UNDERGROUND (BELOW GRADE) GROUNDING CONNECTIONS SHALL BE MADE BY THE CADWELD PROCESS (MECHANICAL LUG ATTACHMENTS BELOW GRADE ARE NOT ACCEPTABLE). CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE SPLICES (TEES, XS, ETC.) ALL MATERIALS USED (MOLDS, WELDING METAL, TOOLS, ETC.) SHALL BE CADWELD AND INSTALLED PER MANUFACTURER'S RECOMMENDATION AND PROCEDURES.

HANGERS AND SUPPORT:

- MATERIALS: ALL HANGERS, SUPPORTS, FASTENERS, AND HARDWARE SHALL BE ZINC COATED OR OF EQUIVALENT CORROSION RESISTANCE BY TREATMENT OR INHERENT PROPERTY, AND SHALL BE MANUFACTURED PRODUCTS DESIGNED FOR THE APPLICATION. PRODUCTS & MATERIALS FOR OUTDOOR USE SHALL BE HOT DIP GALVANIZED.
- TYPES: HANGERS, STRAPS, RISER SUPPORTS, CLAMPS, U-CHANNEL, THREADED RODS, ETC. AS INDICATED OR REQUIRED.
- INSTALLATION: RIGIDLY SUPPORT AND SECURE ALL MATERIALS, RACEWAY AND EQUIPMENT TO BUILDING STRUCTURE USING HANGERS, SUPPORTS AND FASTENERS SUITABLE FOR THE USE, MATERIALS AND LOADS ENCOUNTERED, PROVIDE ALL NECESSARY HARDWARE, PROVIDE CONDUIT SUPPORTS AT MAXIMUM 5 FT. O.C.
- OVERHEAD MOUNTING: ATTACH OVERHEAD MOUNTED EQUIPMENT TO STRUCTURAL FRAMEWORK OR SUPPORTING METAL FRAMEWORK.
- WALL MOUNTING: SUPPORT WALL MOUNTED EQUIPMENT BY MASONRY, CONCRETE BLOCK, METAL FRAMING OR SUB-FRAMING.
- EXTERIOR WALLS: MOUNT ALL EQUIPMENT LOCATED ON THE INTERIOR OF EXTERIOR BUILDING WALLS AT LEAST ONE INCH AWAY FROM WALL SURFACE, USING SUITABLE SPACERS.
- STRUCTURAL MEMBERS: DO NOT CUT, DRILL OR WELD ANY STRUCTURAL MEMBER EXCEPT SPECIFICALLY APPROVED BY THE ENGINEER.
- INDEPENDENT SUPPORT: DO NOT SUPPORT MATERIALS OR EQUIPMENT FROM OTHER EQUIPMENT, PIPING, DUCTWORK OR SUPPORTS.

HANGERS AND SUPPORT (CONTINUED):

- RACEWAY SUPPORTS: RIGIDLY SUPPORT ALL RACEWAY WITH MAXIMUM SPACING PER NEC. AND SO AS TO PREVENT DISTORTION OF ALIGNMENT DURING PULLING OPERATION, USE APPROVED HANGERS, CLAMPS AND STRAPS FOR INDIVIDUAL RUNS. DO NOT USE PERFORATED STRAPS OR TIE WIRES. WHERE MULTIPLE PARALLEL RACEWAYS ARE TO RUN TOGETHER, USE TRAPEZE TYPE HANGER ARRANGEMENT MADE FROM U-CHANNEL AND ACCESSORIES. SUSPENDED FOR FUTURE INSTALLATION OF ADDITIONAL RACEWAYS, RIGIDLY ANCHOR VERTICAL CONDUITS SERVING FLOOR MOUNTED OR "ISLAND" TYPE EQUIPMENT MOUNTED AWAY FROM WALLS WITH METAL BRACKET OR RIGID STEEL CONDUIT EXTENSION SECURED TO FLOOR.
- MISCELLANEOUS SUPPORTS: PROVIDE ANY ADDITIONAL STRUCTURAL SUPPORT STEEL BRACKETS, ANGLES, FASTENERS, AND HARDWARE AS REQUIRED TO ADEQUATELY SUPPORT ALL ELECTRICAL MATERIALS AND EQUIPMENT.
- ONE HOLE STRAPS SHALL NOT BE USED FOR CONDUITS LARGER THAN 3/4 INCH.

verizon

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PHONE (303) 228-2300
WWW.KIMLEY-HORN.COM

PLANS PREPARED BY: _____

REV: _____ DATE: _____ DESCRIPTION: _____ BY: _____

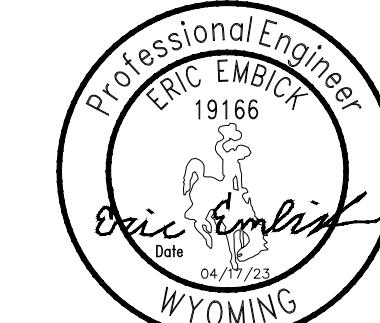
0	04/17/23	FINAL	MAK
B	02/03/23	REVISED	STR
A	12/21/22	CUTTHROAT PRELIM CDs	MAK

DRAWN BY: _____ CHECKED BY: _____

MAK MFF

KHA PROJECT NUMBER: 196015041

ENGINEER SEAL:



PROJECT INFORMATION:

CUTTHROAT

160 S MILLWARD ST
JACKSON, WY 83001
TETON COUNTY

SHEET TITLE: GENERAL NOTES II

SHEET NUMBER: _____

N-2

verizon

9656 SOUTH PROSPERITY ROAD, WEST JORDAN, UTAH 84088

PLANS PREPARED BY:
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REV: _____ DATE: _____ DESCRIPTION: _____ BY: _____

0	04/17/23	FINAL	MAK
B	02/03/23	REVISED	STR
A	12/21/22	CUTTHROAT PRELIM CDs	MAK

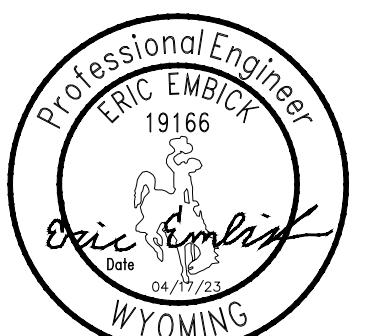
DRAWN BY: _____ CHECKED BY: _____

MAK **MFF**

KHA PROJECT NUMBER: _____

196015041

ENGINEER SEAL: _____



PROJECT INFORMATION: _____

CUTTHROAT
160 S MILLWARD ST
JACKSON, WY 83001
TETON COUNTY

SHEET TITLE: _____

SITE PLAN

SHEET NUMBER: _____

C-1

NOTE:
ALL INFORMATION SHOWN ON PLANS IS RE-CREATED
FROM EXISTING CONSTRUCTION DRAWINGS PROVIDED
TO KIMLEY-HORN BY VERIZON. AS SUCH, WE DO NOT
GUARANTEE THE ACCURACY OF ALL INFORMATION
PRESENTED. ALL INFORMATION MUST BE
FIELD-VERIFIED BY THE CONTRACTOR PRIOR TO AND
DURING CONSTRUCTION. IF ANY DISCREPANCIES ARISE,
CONTACT KIMLEY-HORN IMMEDIATELY.

220 W PEARL AVE
OWNER: TOWN OF JACKSON
APN: 22-41-16-33-1-07-001

160 W PEARL AVE
OWNER: JN ONE, LLC
APN: 22-41-16-33-1-54-002

120 W PEARL AVE
OWNER: JN ONE LLC
APN: 22-41-16-33-1-54-001

165 S MILLWARD ST
OWNER: PUB VIEW, LLC
APN: 22-41-16-33-1-07-008

S MILLWARD STREET

EXISTING GARAGE
160 S MILLWARD ST
OWNER: TOWN OF JACKSON
APN: 22-41-16-33-1-08-003

175 S GLENWOOD ST
OWNER: ARTS
DISTRICT WEST, LLC
APN: 22-41-16-33-1-08-004

EXISTING ALLEY

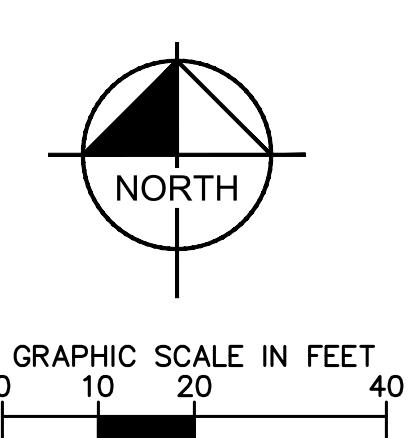
W SIMPSON AVENUE



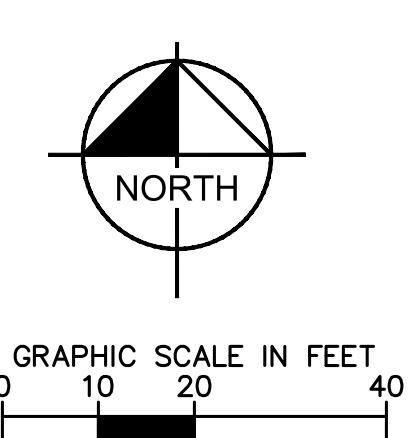
235 S MILLWARD ST
OWNER: PUBVIEW, LLC
APN: 22-41-16-33-1-11-001

150 W SIMPSON AVE
OWNER: TOWN OF JACKSON
APN: 22-41-16-33-1-10-003

SITE PLAN
1
C-1
SCALE: 1" = 20'
SCALE BASED ON 24"X36" ONLY



GRAPHIC SCALE IN FEET
0 10 20 30 40



NORTH

verizon

9656 SOUTH PROSPERITY ROAD, WEST JORDAN, UTAH 84088

PLANS PREPARED BY:
Kimley»Horn

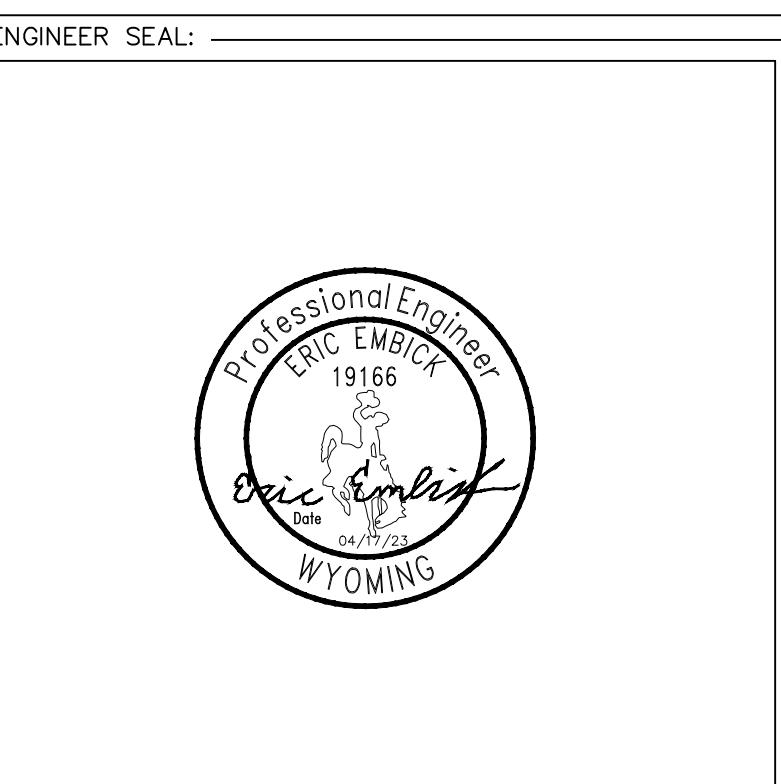
4582 S ULMER ST. #1500
DENVER, CO 80237
PHONE (303) 228-2300
WWW.KIMLEY-HORN.COM

REV:	DATE:	DESCRIPTION:	BY:

0 04/17/23 FINAL MAK
B 02/03/23 REVISED STR
A 12/21/22 CUTTHROAT PRELIM CDs MAK

DRAWN BY: **MAK** CHECKED BY: **MFF**

KHA PROJECT NUMBER: **196015041**

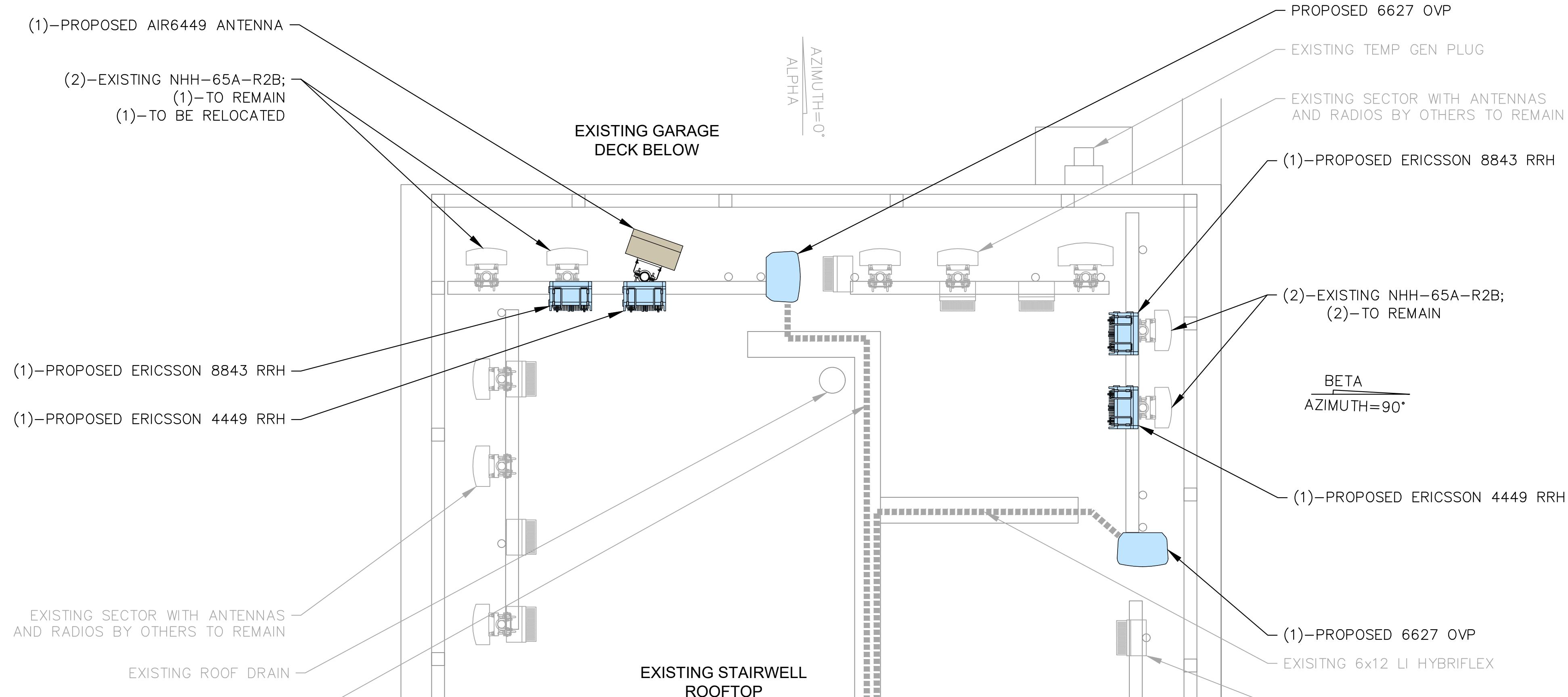


PROJECT INFORMATION:

CUTTHROAT
160 S MILLWARD ST
JACKSON, WY 83001
TETON COUNTY

SHEET TITLE: **ENLARGED SITE PLAN**

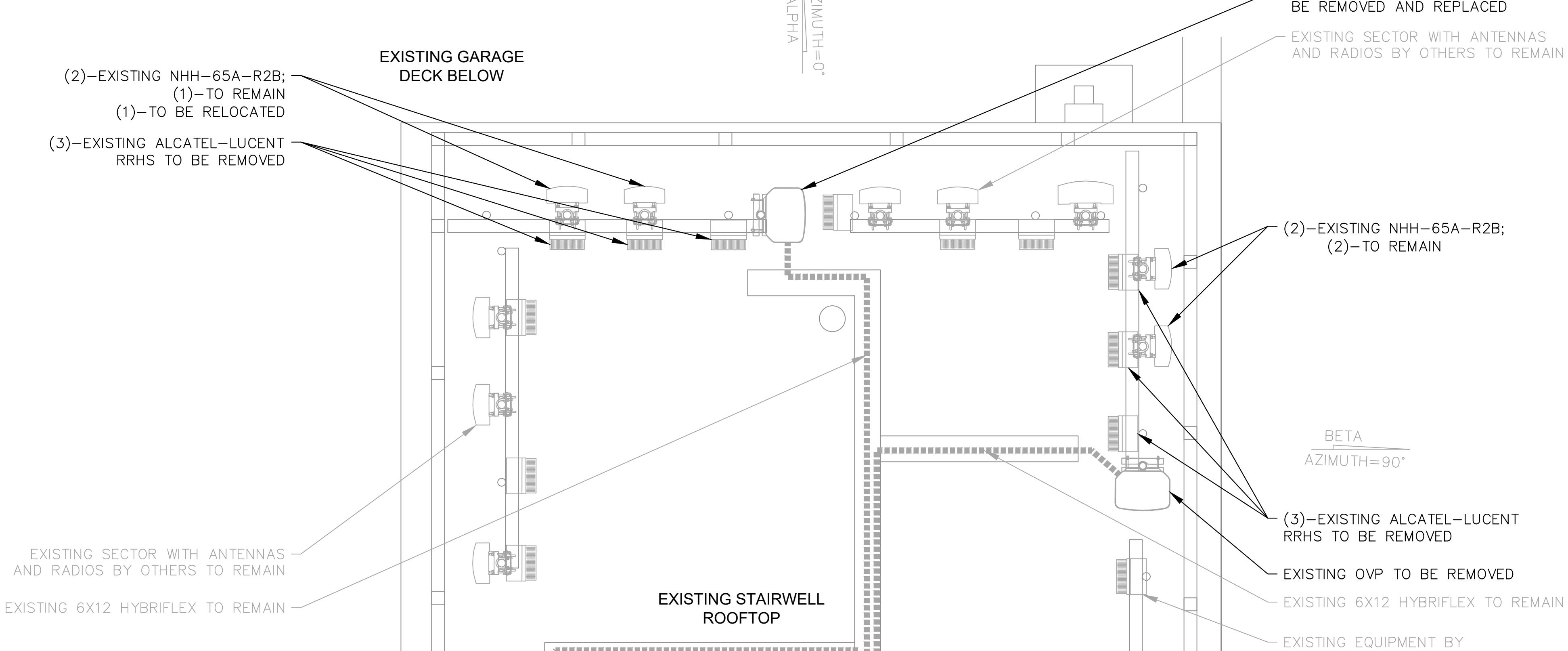
SHEET NUMBER: **C-2**



ENLARGED SITE PLAN (ALPHA AND BETA) PROPOSED

1
C-2

SCALE: 1" = 2'
SCALE BASED ON 24"X36" ONLY

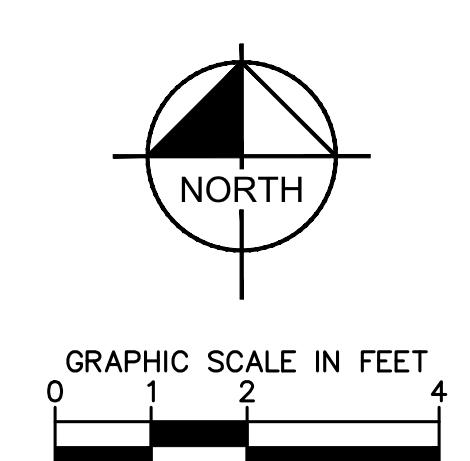


ENLARGED SITE PLAN (ALPHA AND BETA) EXISTING

2
C-2

SCALE: 1" = 2'
SCALE BASED ON 24"X36" ONLY

NOTE:
ALL EXISTING CABLE, RADIO, AND ANTENNA ATTACHMENT
HARDWARE TO BE REPLACED WITH CONCEALFAB LOW-PIM
EQUIVALENTS.



verizon

9656 SOUTH PROSPERITY ROAD, WEST JORDAN, UTAH 84088

PLANS PREPARED BY:
Kimley»Horn

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DENVER, CO 80237
PHONE (303) 228-2300
WWW.KIMLEY-HORN.COM

REV:	DATE:	DESCRIPTION:	BY:

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A 12/21/22 CUTTHROAT PRELIM CDs MAK

DRAWN BY: **MAK** CHECKED BY: **MFF**

KHA PROJECT NUMBER: **196015041**

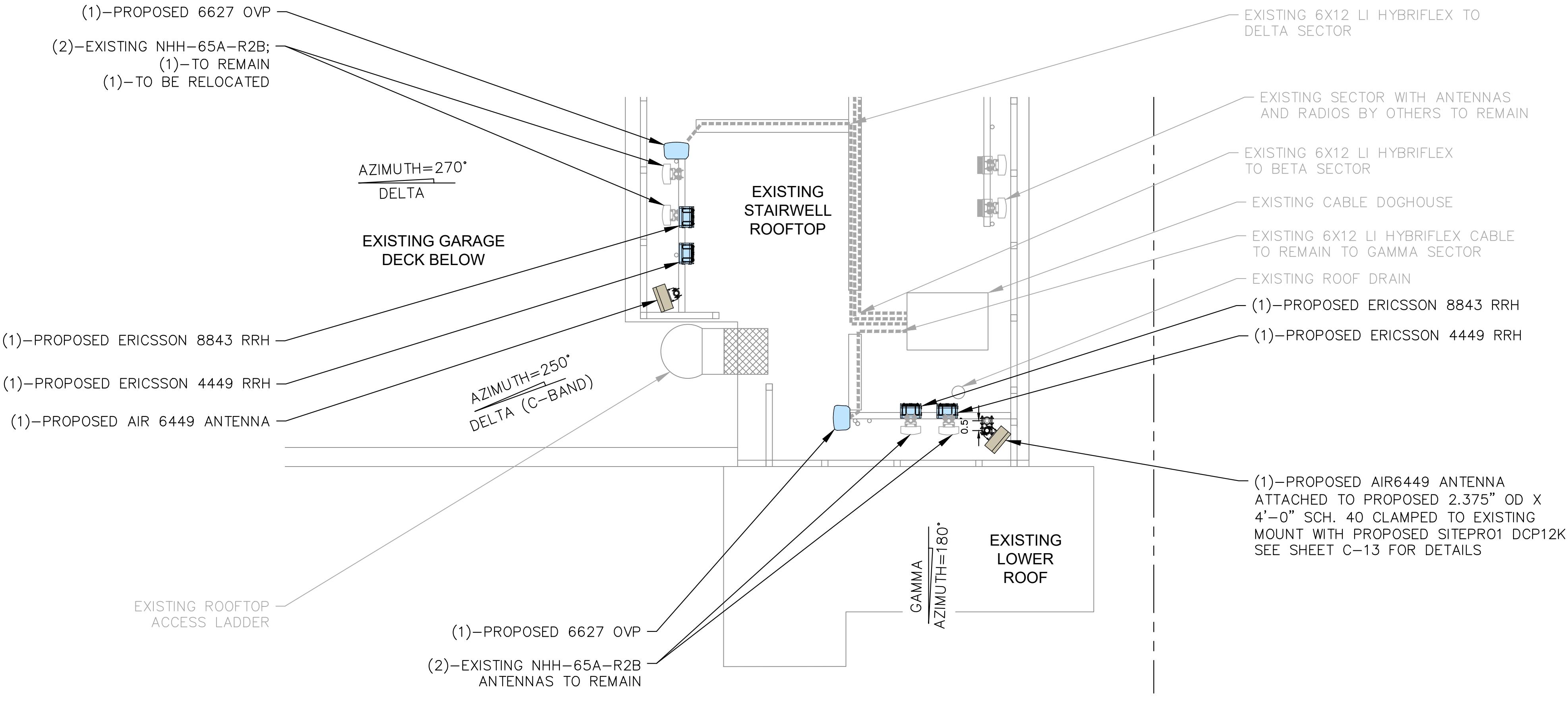
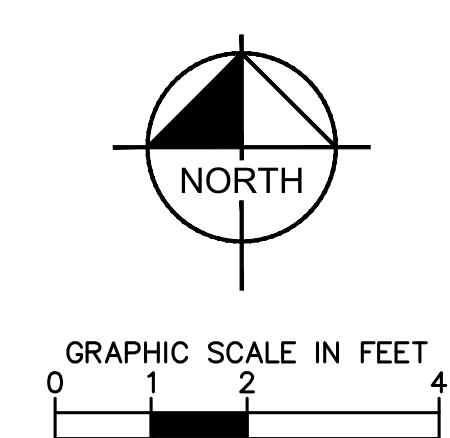


PROJECT INFORMATION:

CUTTHROAT
160 S MILLWARD ST
JACKSON, WY 83001
TETON COUNTY

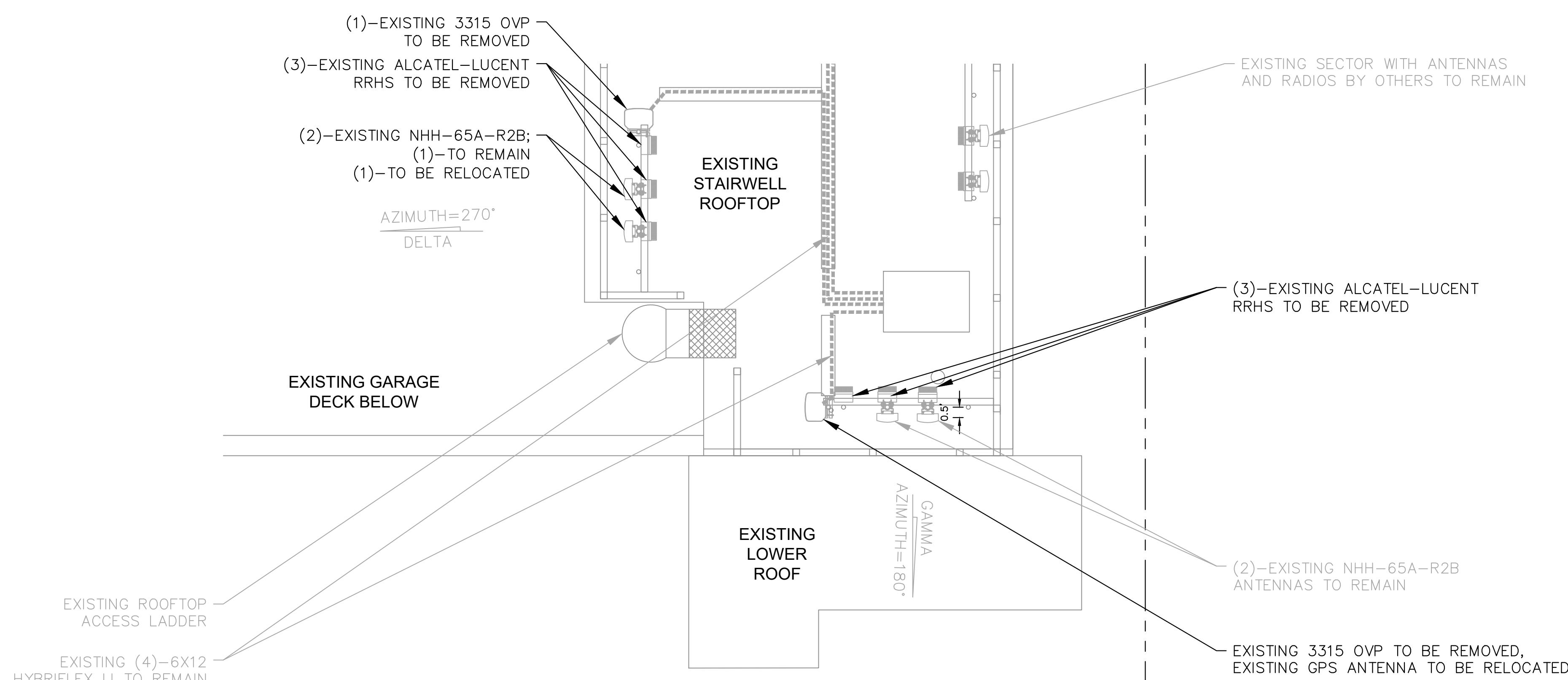
SHEET TITLE: **ENLARGED SITE PLAN**

SHEET NUMBER: **C-3**



ENLARGED SITE PLAN (GAMMA AND DELTA) PROPOSED

SCALE: 1" = 2'
SCALE BASED ON 24"X36" ONLY



ENLARGED SITE PLAN (GAMMA AND DELTA) EXISTING

SCALE: 1" = 2'
SCALE BASED ON 24"X36" ONLY

NOTE:
ALL EXISTING CABLE, RADIO, AND ANTENNA ATTACHMENT
HARDWARE TO BE REPLACED WITH CONCEALFAB LOW-PIM
EQUIVALENTS.

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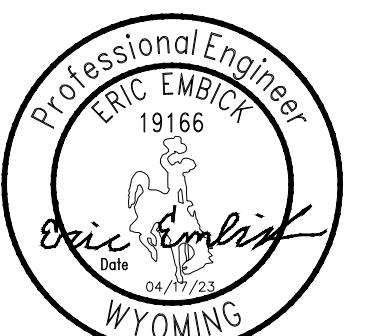
PLANS PREPARED BY: _____

REV: _____ DATE: _____ DESCRIPTION: _____ BY: _____
0 04/17/23 FINAL MAK
B 02/03/23 REVISED STR
A 12/21/22 CUTTHROAT PRELIM CDs MAK

DRAWN BY: _____ CHECKED BY: _____
MAK MFF

KHA PROJECT NUMBER: _____
196015041

ENGINEER SEAL: _____



PROJECT INFORMATION: _____

CUTTHROAT

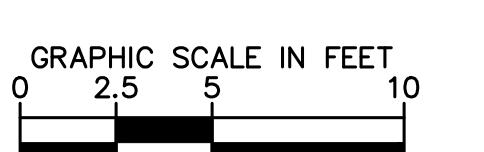
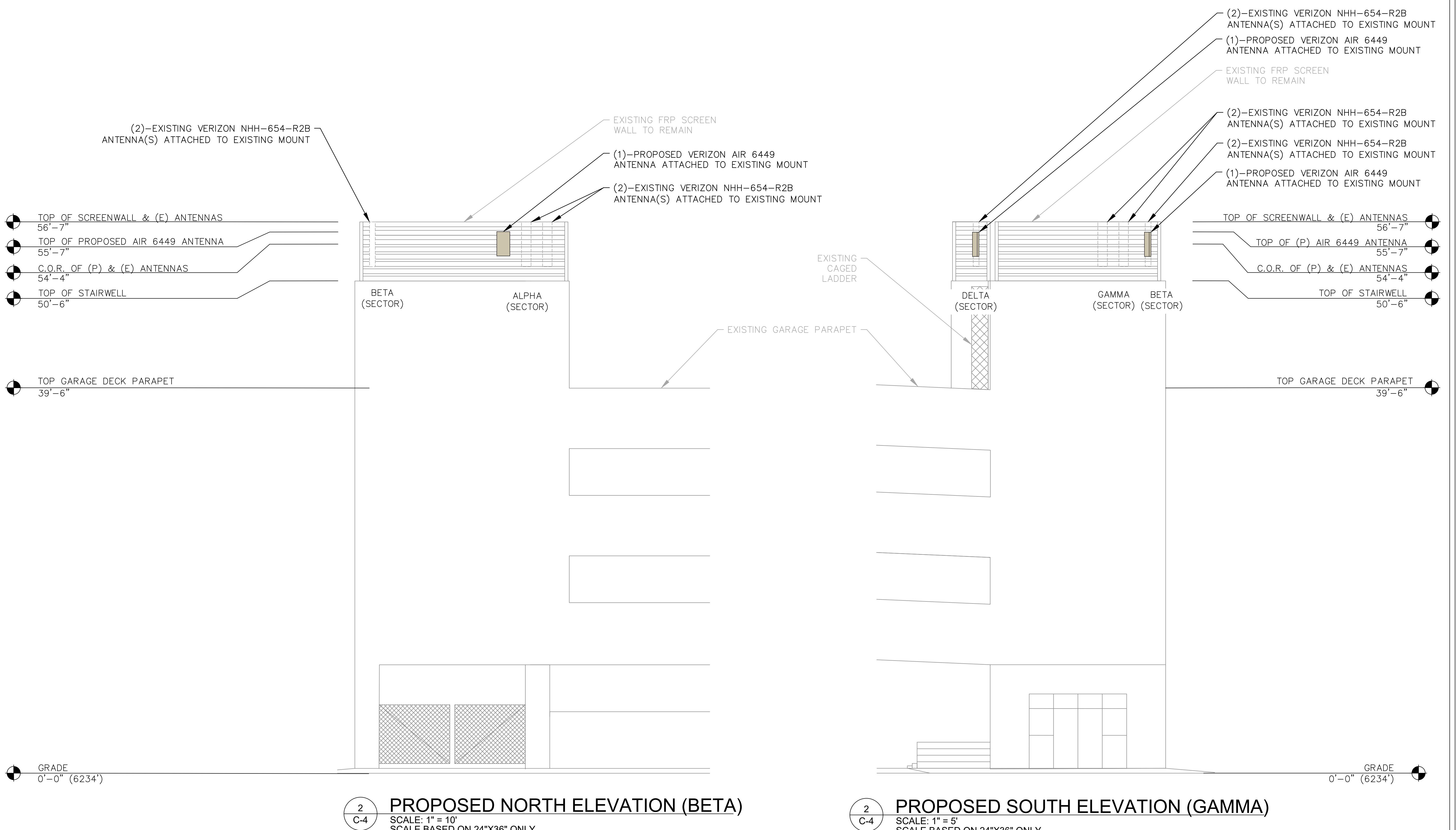
160 S MILLWARD ST
JACKSON, WY 83001
TETON COUNTY

SHEET TITLE: _____

PROPOSED ELEVATION PLAN

SHEET NUMBER: _____

C-4



verizon

9656 SOUTH PROSPERITY ROAD, WEST JORDAN, UTAH 84088

PLANS PREPARED BY: **Kimley»Horn**

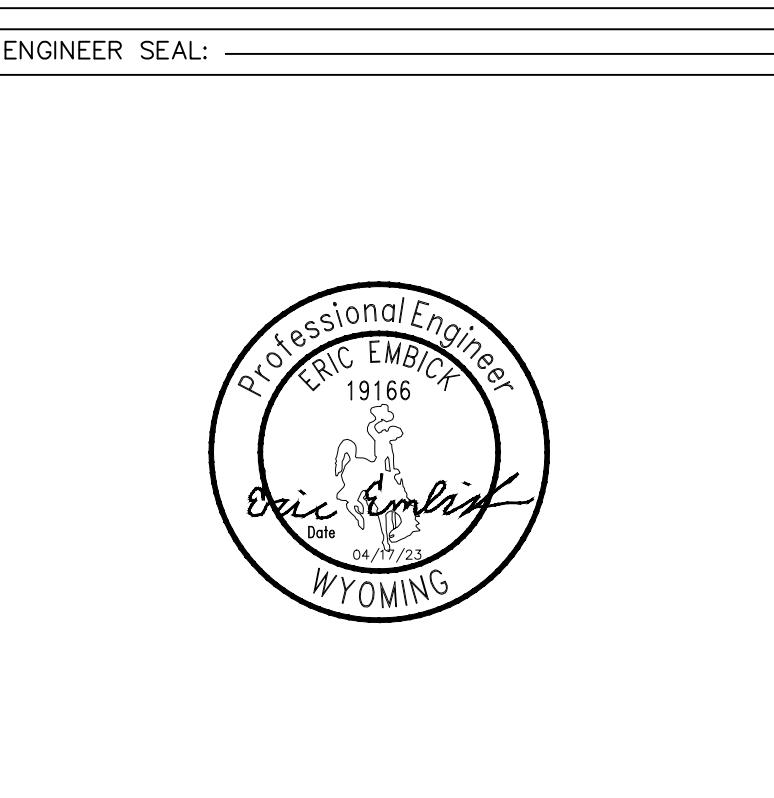
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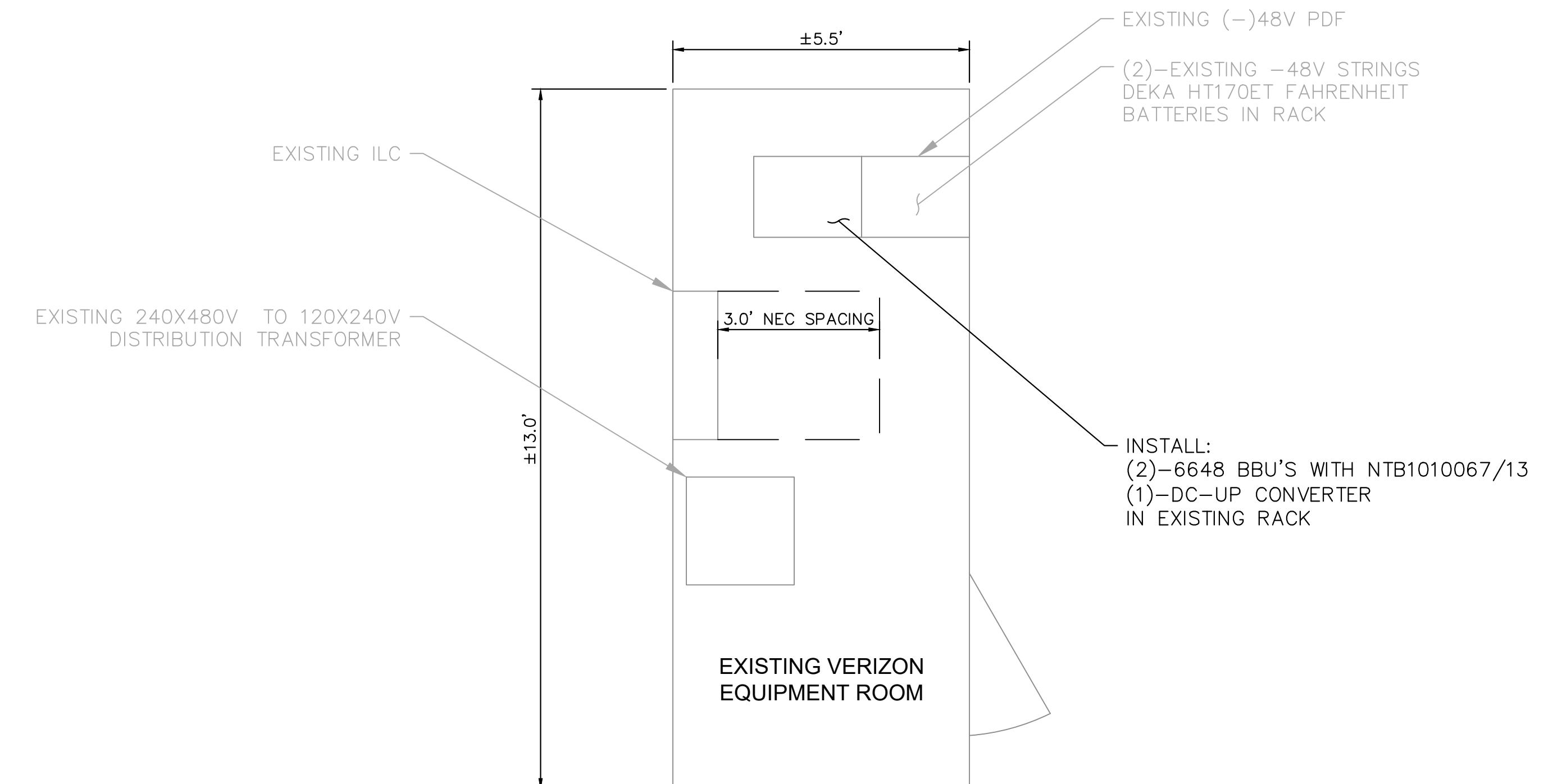
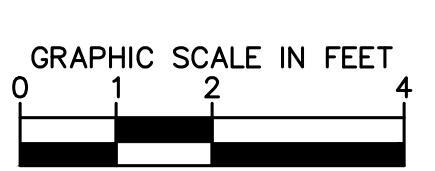
DRAWN BY: **MAK** CHECKED BY: **MFF**

KHA PROJECT NUMBER: **196015041**



PROJECT INFORMATION:
CUTTHROAT
160 S MILLWARD ST
JACKSON, WY 83001
TETON COUNTY

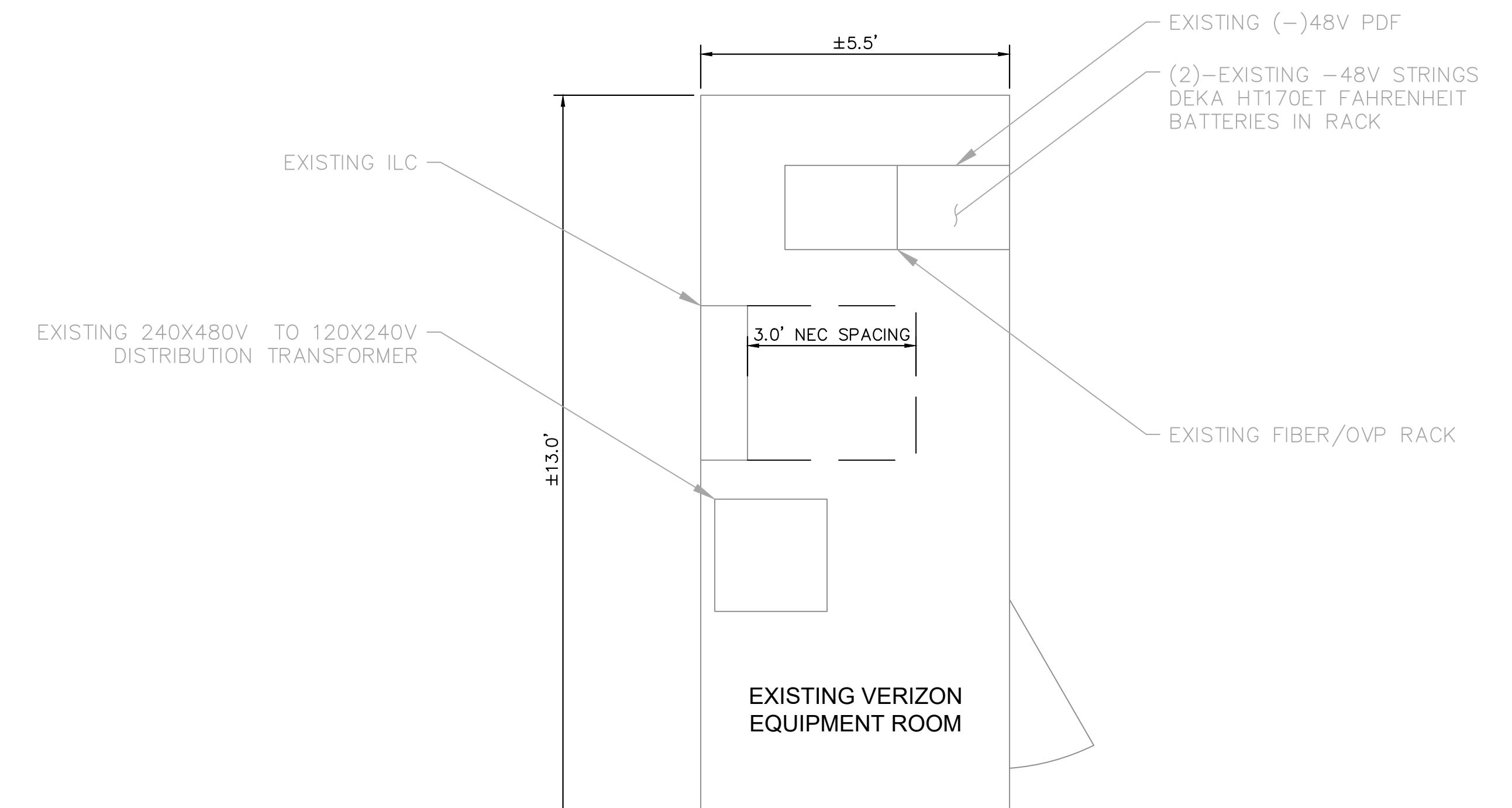
SHEET TITLE: **EQUIPMENT ROOM PLAN**
SHEET NUMBER: **C-5**



PROPOSED EQUIPMENT ROOM

1
C-5

SCALE: 1" = 2'
SCALE BASED ON 24"X36" ONLY



EXISTING EQUIPMENT ROOM

2
C-5

SCALE: 1" = 2'
SCALE BASED ON 24"X36" ONLY

0	04/17/23	FINAL	MAK
B	02/03/23	REVISED	STR
A	12/21/22	CUTTHROAT PRELIM CDs	MAK

DRAWN BY: _____ CHECKED BY: _____

MAK **MFF**

KHA PROJECT NUMBER: **196015041**

ENGINEER SEAL: _____

FOR REFERENCE ONLY

PROJECT INFORMATION:

CUTTHROAT

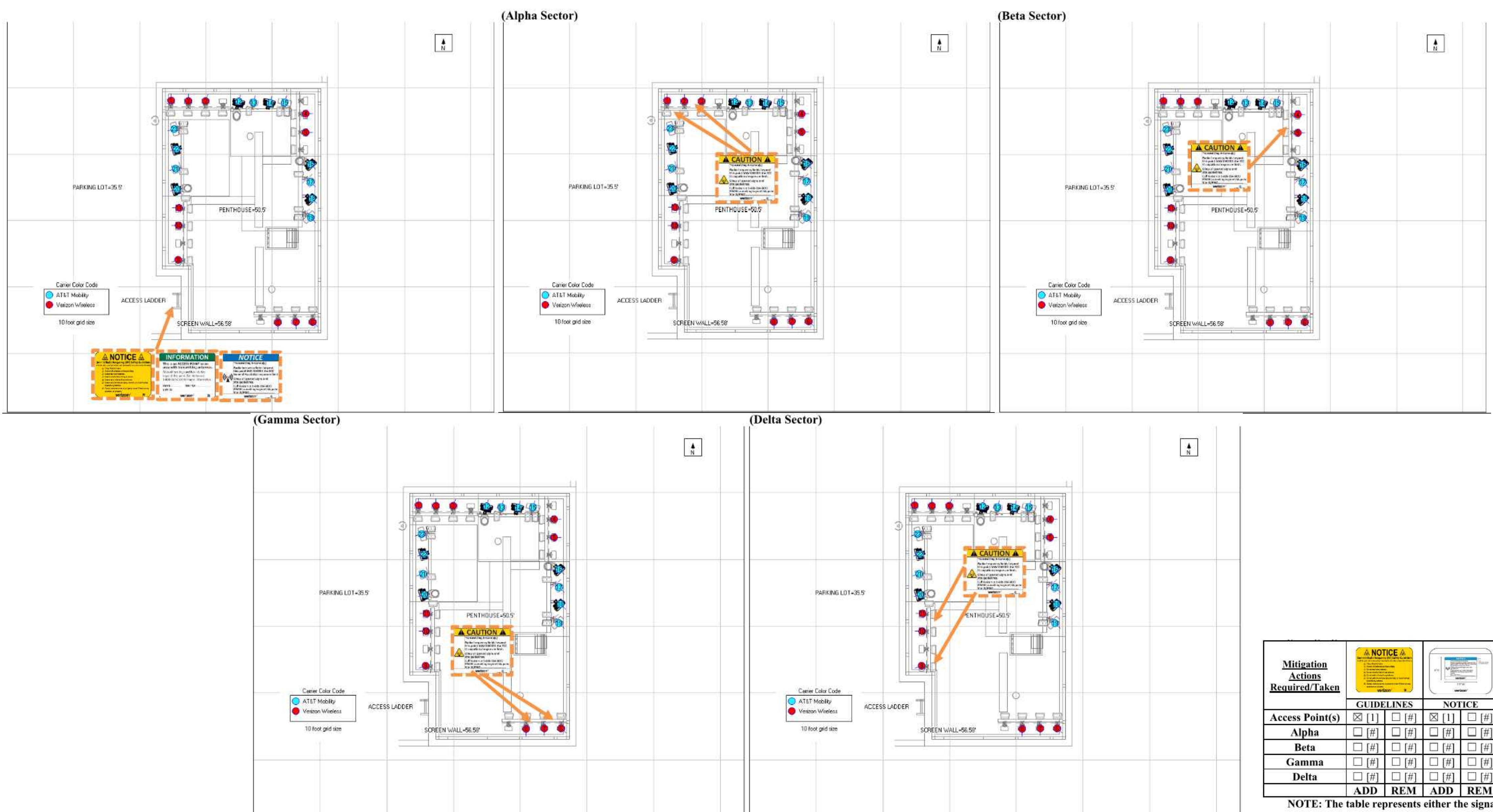
160 S MILLWARD ST
JACKSON, WY 83001
TETON COUNTY

SHEET TITLE: _____

EME PLAN

SHEET NUMBER: _____

C-6



Mitigation Actions Required/Taken	NOTICE		GUIDELINES		NOTICE		CAUTION		WARNING		INFORMATION		NO CARRIER		BARRIER/MARKER	
	GUIDELINES	NOTICE	NOTICE	CAUTION	WARNING	INFORMATION	NO CARRIER	BARRIER/MARKER								
Access Point(s)	<input checked="" type="checkbox"/> [1]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [1]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [1]	<input type="checkbox"/> [#]	N/A								
Alpha	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	N/A	
Beta	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [1]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	N/A	
Gamma	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	N/A	
Delta	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	N/A	
	ADD	REM	ADD	REM	ADD	REM	ADD	REM	ADD	REM	ADD	REM	ADD	REM	ADD ONLY	

NOTE: The table represents either the signage/barriers installed / removed OR items required by the market (if mitigation is not installed by consultant/vendor).

SPECIAL MITIGATION INSTRUCTIONS															
Items to be Installed								Access: Install NOC, Guidelines, and Notice signs at access ladder.							
Alpha: Install [2] Caution signs behind the antennas visible from all approaches.								Beta: Install [1] Caution sign behind the antennas visible from all approaches.							
Gamma: Install [2] Caution signs behind the antennas visible from all approaches.								Delta: Install [2] Caution signs behind the antennas visible from all approaches.							

1 C-6 EME SIGNAGE PLAN

SCALE: N.T.S.

2 C-6 EME SIGNAGE DETAIL

SCALE: N.T.S.

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9656 SOUTH PROSPERITY ROAD, WEST JORDAN, UTAH 84088

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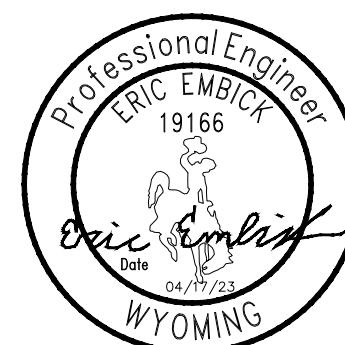
0	04/17/23	FINAL	MAK
B	02/03/23	REVISED	STR
A	12/21/22	CUTTHROAT PRELIM CDs	MAK

DRAWN BY: = CHECKED BY:

MAK **MFF**

KHA PROJECT NUMBER: =
196015041

ENGINEER SEAL:



PROJECT INFORMATION:

CUTTHROAT

160 S MILLWARD ST
JACKSON, WY 83001
TETON COUNTY

SHEET TITLE: =

ANTENNA & CABLE SCHEDULE

SHEET NUMBER: =

C-8

FINAL ANTENNA SCHEDULE*

ANTENNA SECTOR	ANTENNA POSITION	ANTENNA*	REMAIN/PROPOSED	LENGTH	WIDTH	DEPTH	WEIGHT (POUNDS)	HORIZONTAL DISTANCE ADJACENT BUILDING	VERTICAL DISTANCE FROM C.O.R. TO UPPER PARAPET	VERTICAL DISTANCE FROM C.O.R. TO GRADE	QTY.
ALPHA	1	NHH-65A-R2B	REMAIN	55.6"	11.8"	7.1"	35	138'	5'-1"	54'-4"	1
	2	NHH-65A-R2B	REMAIN	55.6"	11.8"	7.1"	35		5'-1"	54'-4"	1
	3	AIR 6449 PANEL/RADIO	PROPOSED	30.4"	15.9"	8.1"	88		5'-1"	54'-4"	1
	4	SPARE	—	—	—	—	—		—	—	N/A
BETA	1	NHH-65A-R2B	REMAIN	55.6"	11.8"	7.1"	35	20'	5'-1"	54'-4"	N/A
	2	NHH-65A-R2B	REMAIN	55.6"	11.8"	7.1"	35		5'-1"	54'-4"	1
	3	AIR 6449 PANEL/RADIO	PROPOSED	30.4"	15.9"	8.1"	88		5'-1"	54'-4"	1
	4	SPARE	—	—	—	—	—		—	—	N/A
GAMMA	1	SPARE	—	—	—	—	—	90'	—	—	N/A
	2	NHH-65A-R2B	REMAIN	55.6"	11.8"	7.1"	35		5'-1"	54'-4"	1
	3	NHH-65A-R2B	REMAIN	55.6"	11.8"	7.1"	35		5'-1"	54'-4"	1
	4	SPARE	—	—	—	—	—		—	—	N/A
DELTA	1	AIR 6449 PANEL/RADIO	PROPOSED	30.4"	15.9"	8.1"	88	330'	5'-1"	54'-4"	1
	2	SPARE	—	—	—	—	—		—	—	N/A
	3	NHH-65A-R2B	REMAIN	55.6"	11.8"	7.1"	35		5'-1"	54'-4"	1
	4	NHH-65A-R2B	REMAIN	55.6"	11.8"	7.1"	35		5'-1"	54'-4"	1

* REFER TO FINAL RFDS PRIOR TO CONSTRUCTION

ADDED CABLE SCHEDULE**

ANTENNA SECTOR	FROM	TO	SIZE	REMAIN/PROPOSED	QTY	LENGTH
ALPHA	OVP	4449 RRH	2X2Y HYBRID	PROPOSED	1	20'
	OVP	8843 RRH	2X2Y HYBRID	PROPOSED	1	20'
	OVP	AIR 6449 ANTENNA	1X3 HYBRID	PROPOSED	1	20'
	4449	NHH ANTENNA	1/2" JUMPER	PROPOSED	4	10'
	8843	NHH ANTENNA	1/2" JUMPER	PROPOSED	8	5'
BETA	OVP	4449 RRH	2X2Y HYBRID	PROPOSED	1	5'
	OVP	8843 RRH	2X2Y HYBRID	PROPOSED	1	10'
	GAMMA OVP	AIR 6449 ANTENNA	1X3 HYBRID	PROPOSED	1	10'
	4449	NHH ANTENNA	1/2" JUMPER	PROPOSED	4	10'
	8843	NHH ANTENNA	1/2" JUMPER	PROPOSED	8	5'
GAMMA	OVP	4449 RRH	2X2Y HYBRID	PROPOSED	1	30'
	OVP	8843 RRH	2X2Y HYBRID	PROPOSED	1	30'
	4449	NHH ANTENNA	1/2" JUMPER	PROPOSED	4	10'
	8843	NHH ANTENNA	1/2" JUMPER	PROPOSED	8	5'
	OVP	4449 RRH	2X2Y HYBRID	PROPOSED	1	5'
DELTA	OVP	8843 RRH	2X2Y HYBRID	PROPOSED	1	10'
	OVP	AIR 6449 ANTENNA	1X3 HYBRID	PROPOSED	1	10'
	4449	NHH ANTENNA	1/2" JUMPER	PROPOSED	4	10'
	8843	NHH ANTENNA	1/2" JUMPER	PROPOSED	8	5'

** QTY AND LENGTH PROVIDED TO HELP CONTRACTOR WITH ESTIMATION ONLY. FINAL LENGTH TO BE VERIFIED WITH FIELD MEASUREMENTS PRIOR TO ORDERING MATERIALS.

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9656 SOUTH PROSPERITY ROAD, WEST JORDAN, UTAH 84088

PLANS PREPARED BY: **Kimley»Horn**

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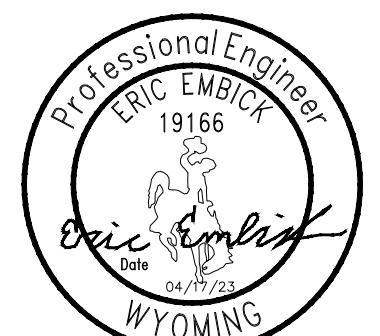
REV: ____ DATE: ____ DESCRIPTION: _____ BY: _____

O 04/17/23 FINAL MAK
B 02/03/23 REVISED STR
A 12/21/22 CUTTHROAT PRELIM CDs MAK

DRAWN BY: _____ CHECKED BY: _____
MAK **MFF**

KHA PROJECT NUMBER: **196015041**

ENGINEER SEAL:



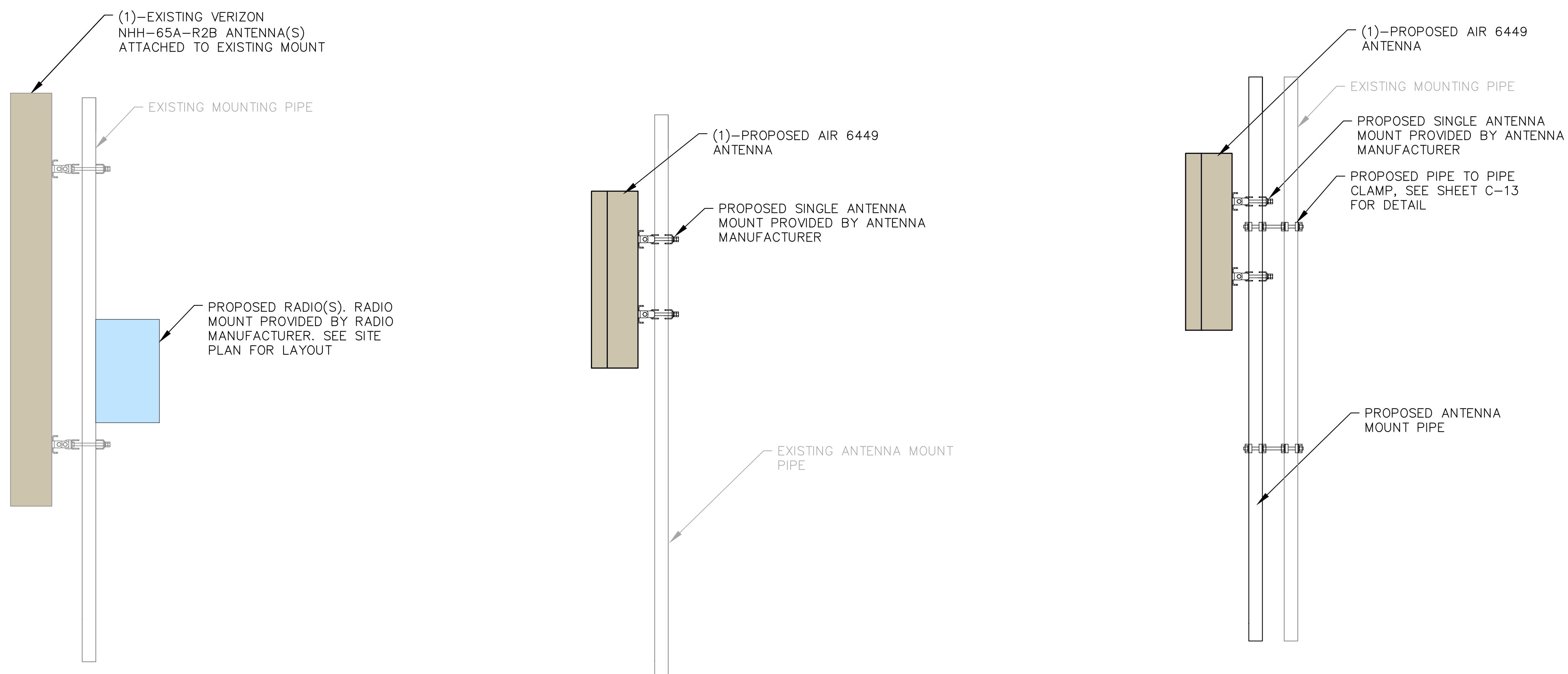
PROJECT INFORMATION:

CUTTHROAT

160 S MILLWARD ST
JACKSON, WY 83001
TETON COUNTY

SHEET TITLE: **MOUNTING DETAILS**

SHEET NUMBER: **C-9**



1
C-9

EXISTING VERIZON NHH-65A-R2B MOUNTING DETAIL
SCALE: 1" = 1'
SCALE BASED ON 24"X36" ONLY

2
C-9

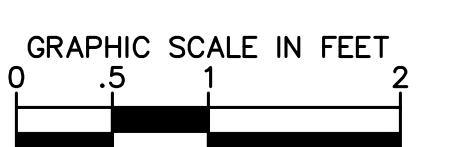
PROPOSED AIR 6449 MOUNTING (ALPHA/DELTA)
SCALE: 1" = 1'
SCALE BASED ON 24"X36" ONLY

3
C-9

PROPOSED AIR 6449 MOUNTING (BETA)
SCALE: 1" = 1'
SCALE BASED ON 24"X36" ONLY

NOTES:

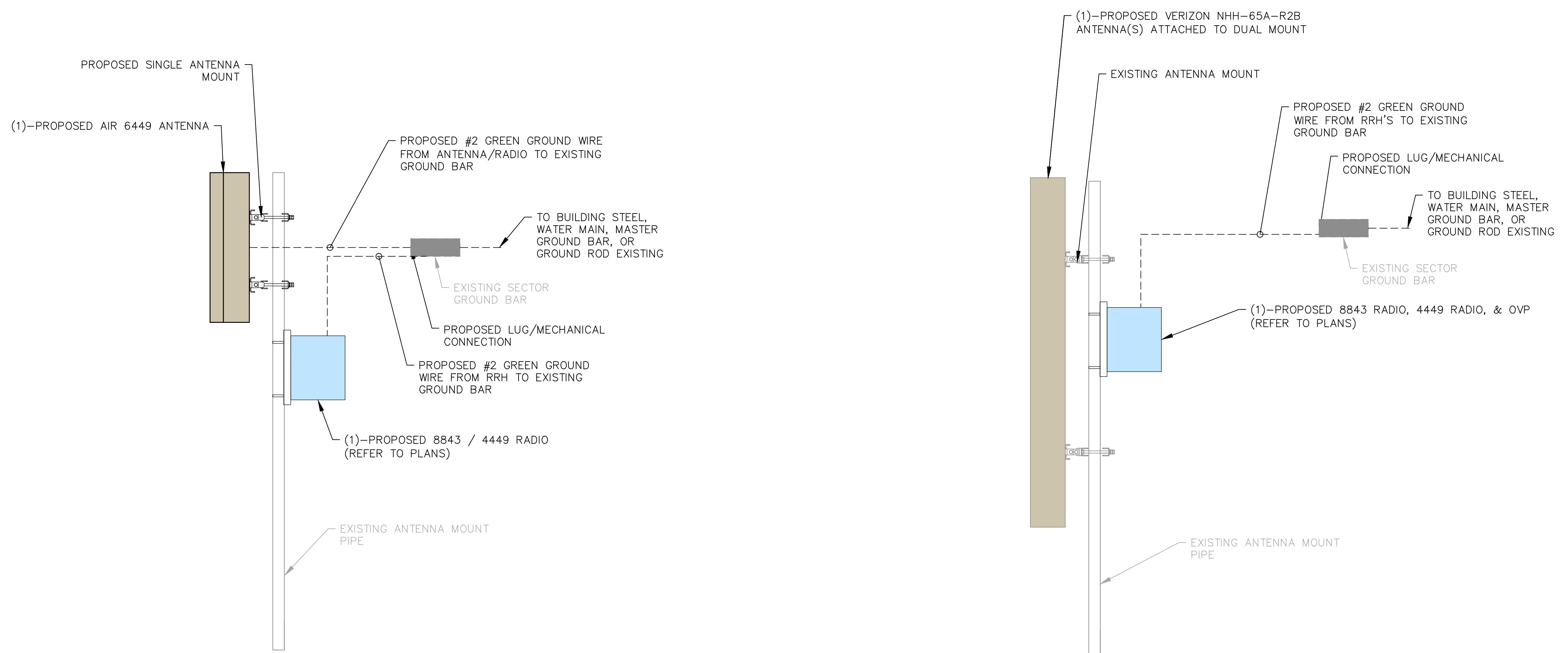
- MOUNTING DETAILS SHOWN FOR REFERENCE ONLY.



C-9

verizon✓

9656 SOUTH PROSPERITY ROAD, WEST JORDAN, UTAH 84088



1
C-10 **PROPOSED VERIZON AIR 6449 ANTENNA GROUNDING DETAIL**
SCALE: 1" = 1'
SCALE BASED ON 24"X36" ONLY

2
C-10 **PROPOSED VERIZON NHH-65A-R2B ANTENNA GROUNDING DETAIL**
SCALE: 1" = 1'
SCALE BASED ON 24"X36" ONLY

GRAPHIC SCALE IN FEET
0 .5 1 2

PLANS PREPARED BY: **Kimley»Horn**

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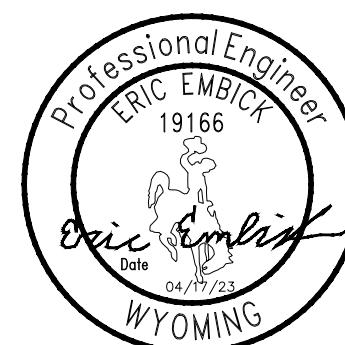
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B	02/03/23	REVISED
A	12/21/22	CUTTHROAT PRELIM CDs

DRAWN BY: **MAK** CHECKED BY: **MFF**

KHA PROJECT NUMBER: **196015041**

ENGINEER SEAL:



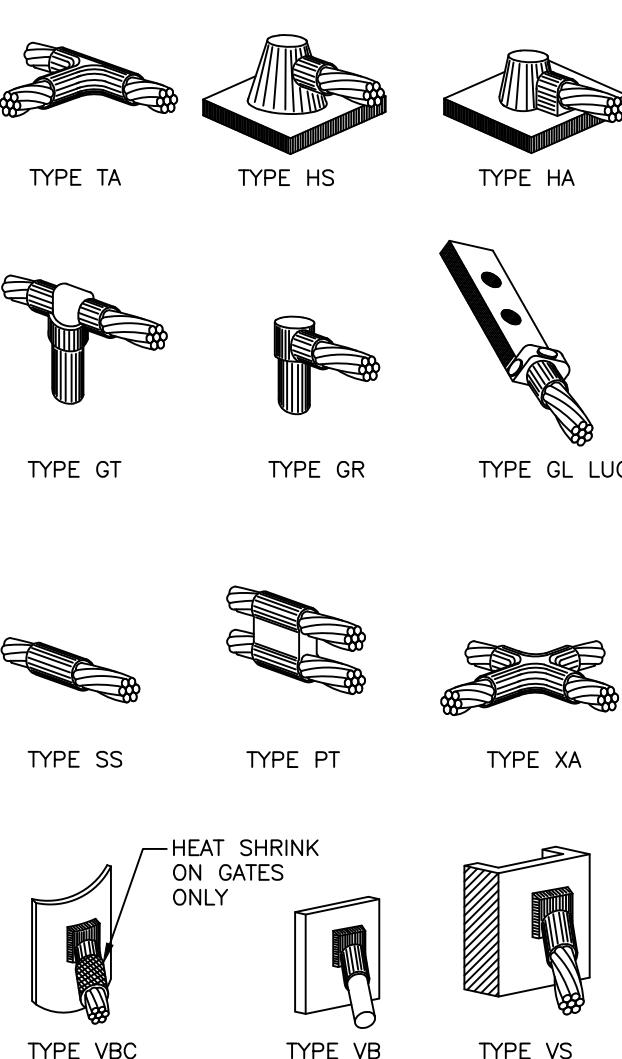
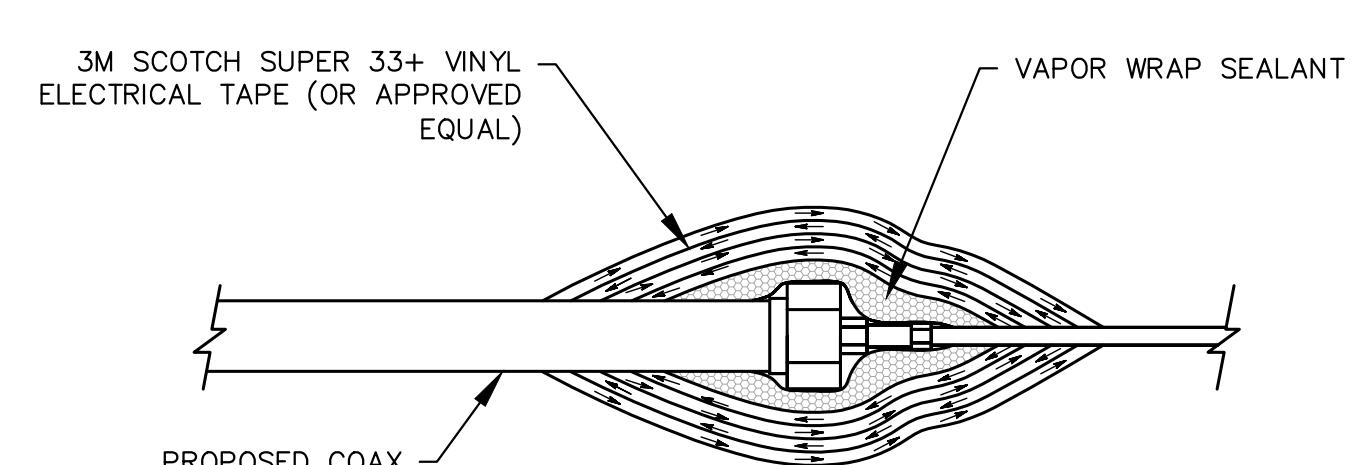
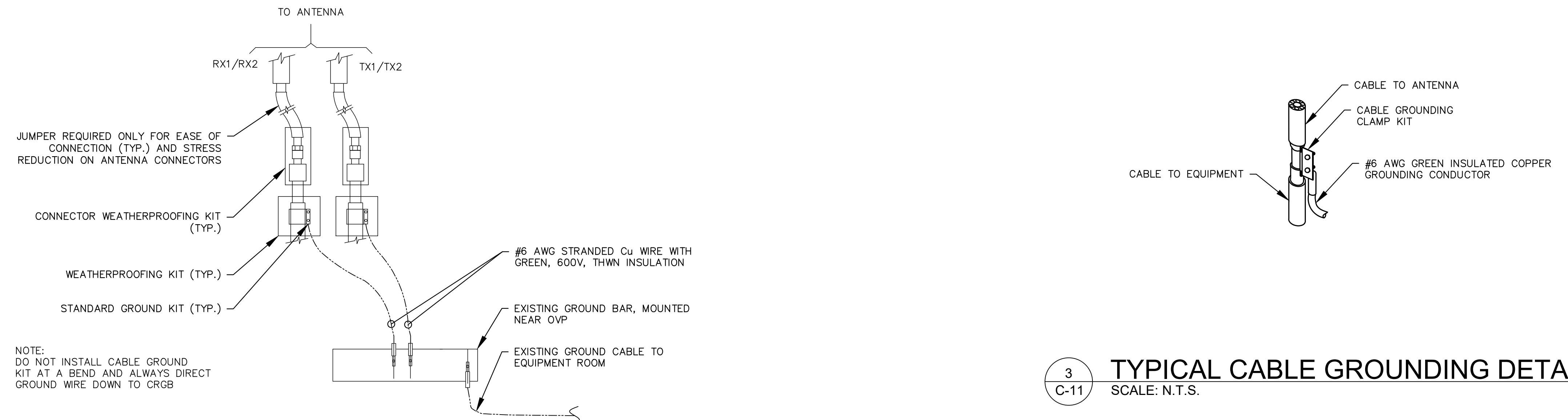
PROJECT INFORMATION:

CUTTHROAT
160 S MILLWARD ST
JACKSON, WY 83001
TETON COUNTY

SHEET TITLE: **GROUNDING DETAILS**

SHEET NUMBER:

C-10



NOTE:
1. CADWELD "TYPES" SHOWN ABOVE ARE EXAMPLES.
PROVIDE APPROPRIATE TYPES AS REQUIRED.

WEATHERPROOFING DETAIL

CADWELD DETAIL

TYPICAL CABLE GROUNDING DETAIL

PLANS PREPARED BY:

Kimley»Horn

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DENVER, CO 80237
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REVISIONS:

O	04/17/23	FINAL	MAK
B	02/03/23	REVISED	STR
A	12/21/22	CUTTHROAT PRELIM CDs	MAK

DRAWN BY: **MAK** **CHECKED BY:** **MFF**

KHA PROJECT NUMBER: **196015041**

ENGINEER SEAL:



PROJECT INFORMATION:

CUTTHROAT
160 S MILLWARD ST
JACKSON, WY 83001
TETON COUNTY

GROUNDING DETAILS

SHEET NUMBER: **C-11**

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9656 SOUTH PROSPERITY ROAD, WEST JORDAN, UTAH 84088

PLANS PREPARED BY:
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4582 S ULSTER ST. #1500
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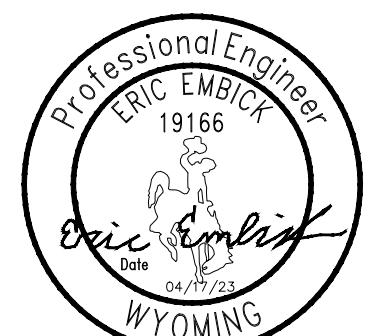
REV: ____ DATE: ____ DESCRIPTION: ____ BY: ____

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B 02/03/23 REVISED STR
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MAK **MFF**

KHA PROJECT NUMBER: **196015041**

ENGINEER SEAL:



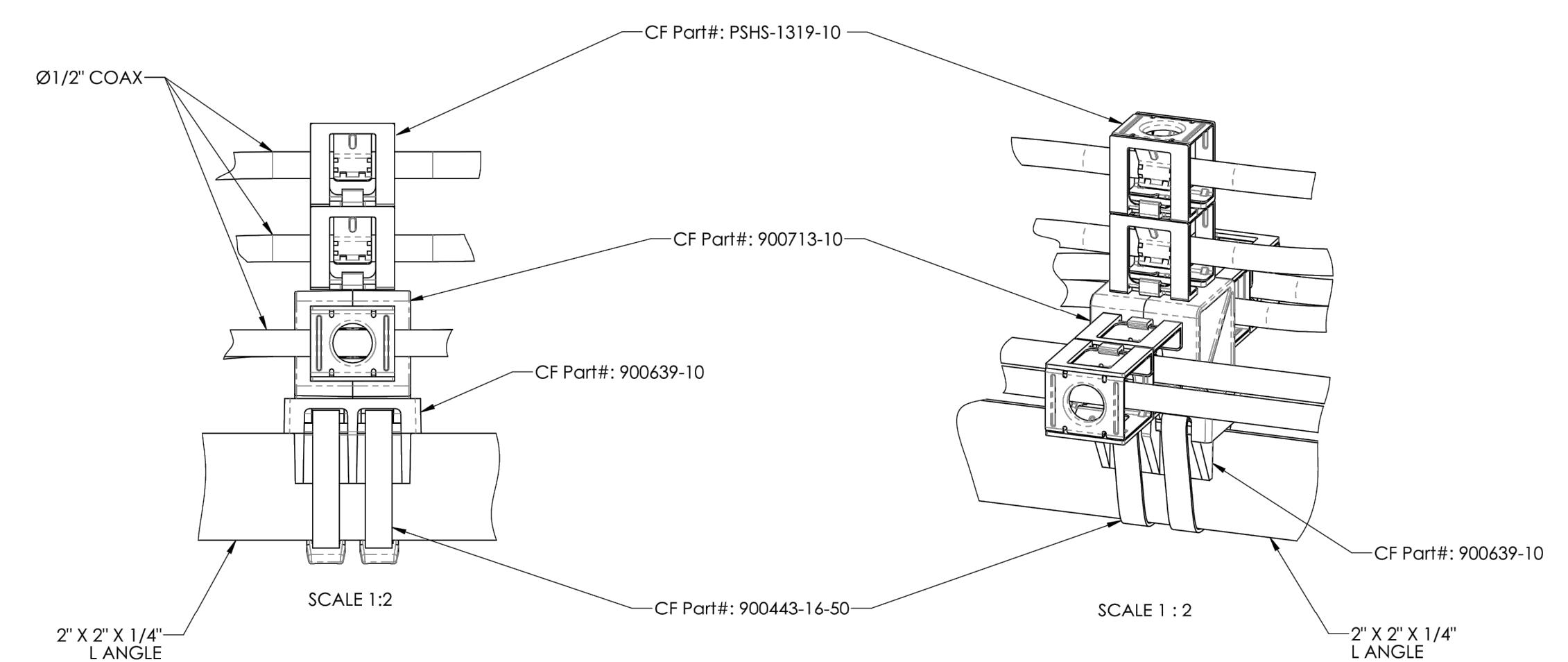
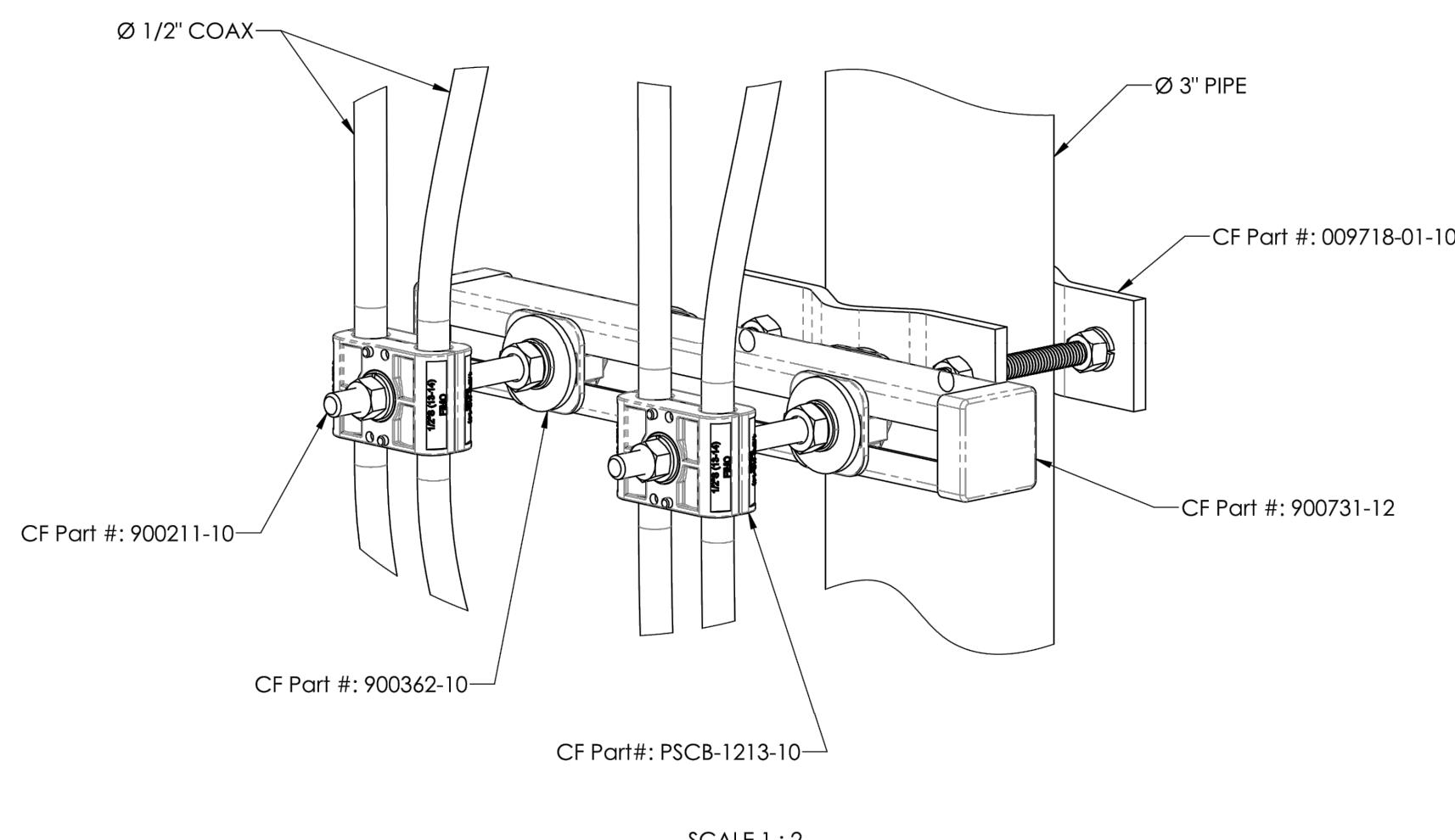
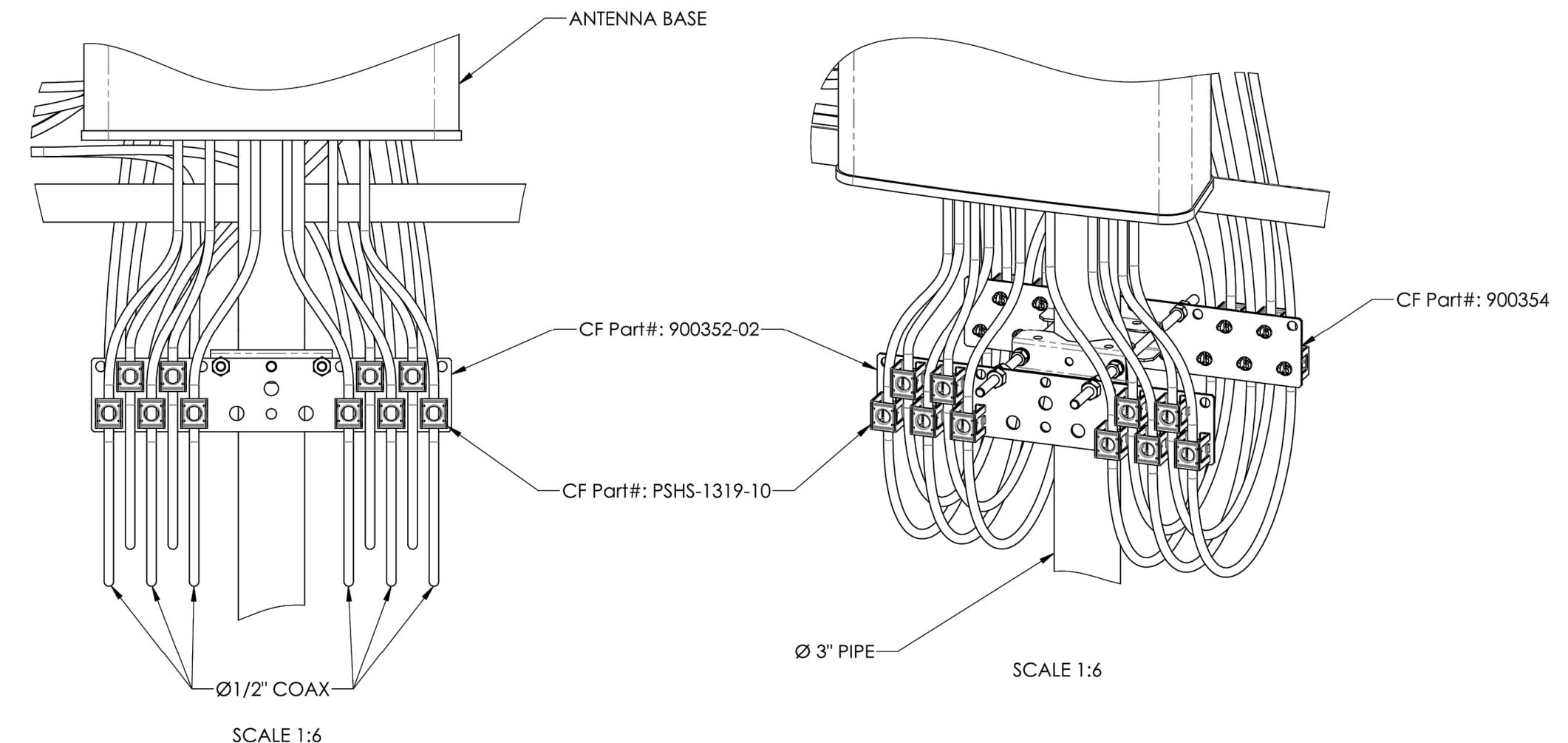
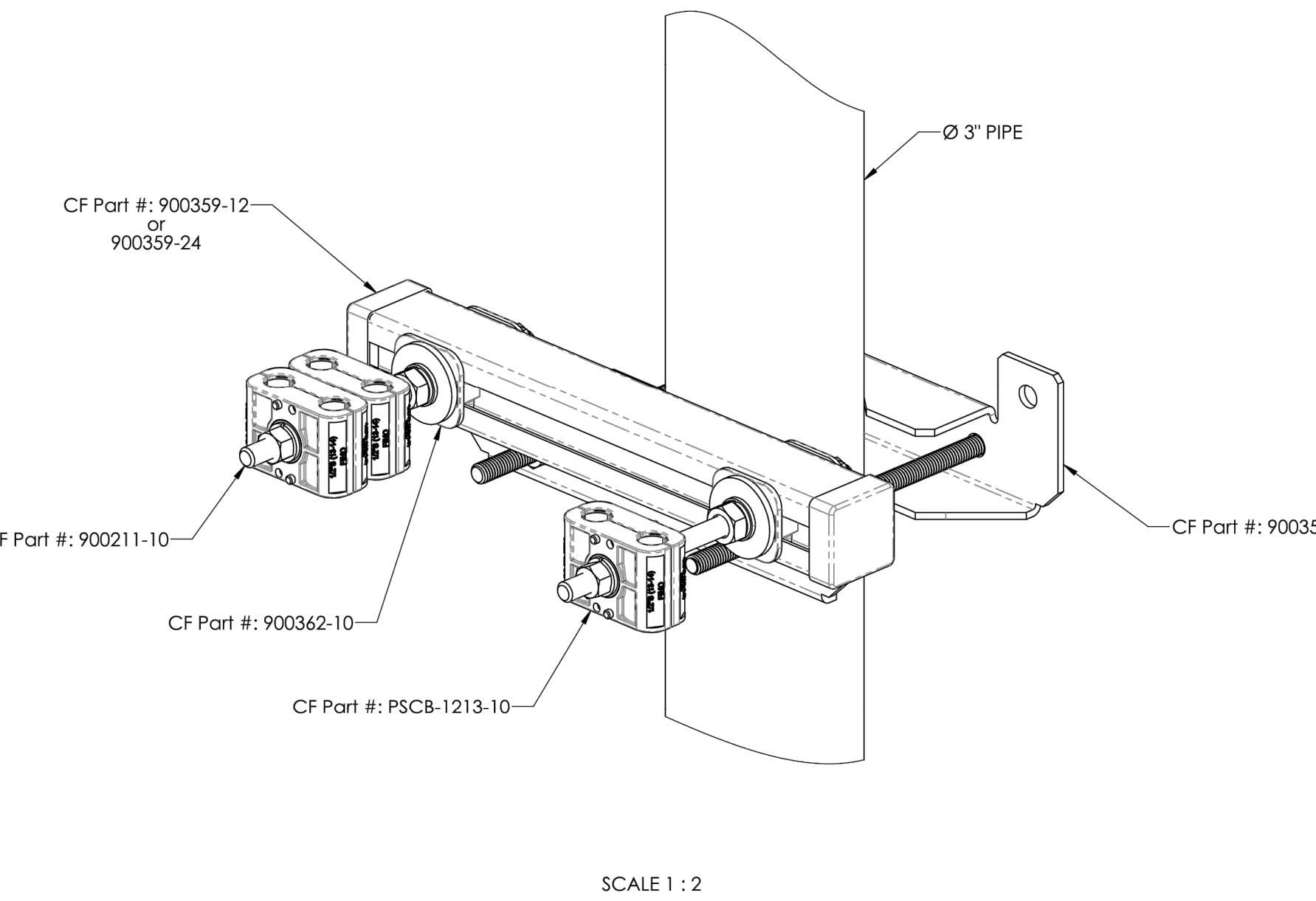
PROJECT INFORMATION:

CUTTHROAT

160 S MILLWARD ST
JACKSON, WY 83001
TETON COUNTY

SHEET TITLE: **LOW PIM MOUNTING DETAILS**

SHEET NUMBER: **C-12**



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9656 SOUTH PROSPERITY ROAD, WEST JORDAN, UTAH 84088

Kimley»Horn

4582 S ULSTER ST. #1500
DENVER, CO 80237
PHONE (303) 228-2300
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PLANS PREPARED BY: _____

REV: _____ DATE: _____ DESCRIPTION: _____ BY: _____

0 04/17/23 FINAL MAK

B 02/03/23 REVISED STR

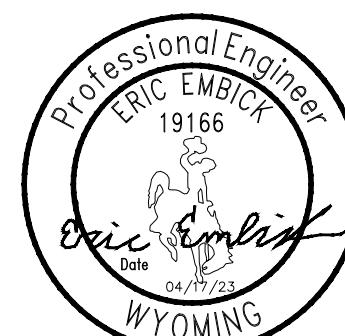
A 12/21/22 CUTTHROAT PRELIM CDs MAK

DRAWN BY: _____ CHECKED BY: _____

MAK MFF

KHA PROJECT NUMBER: 196015041

ENGINEER SEAL:



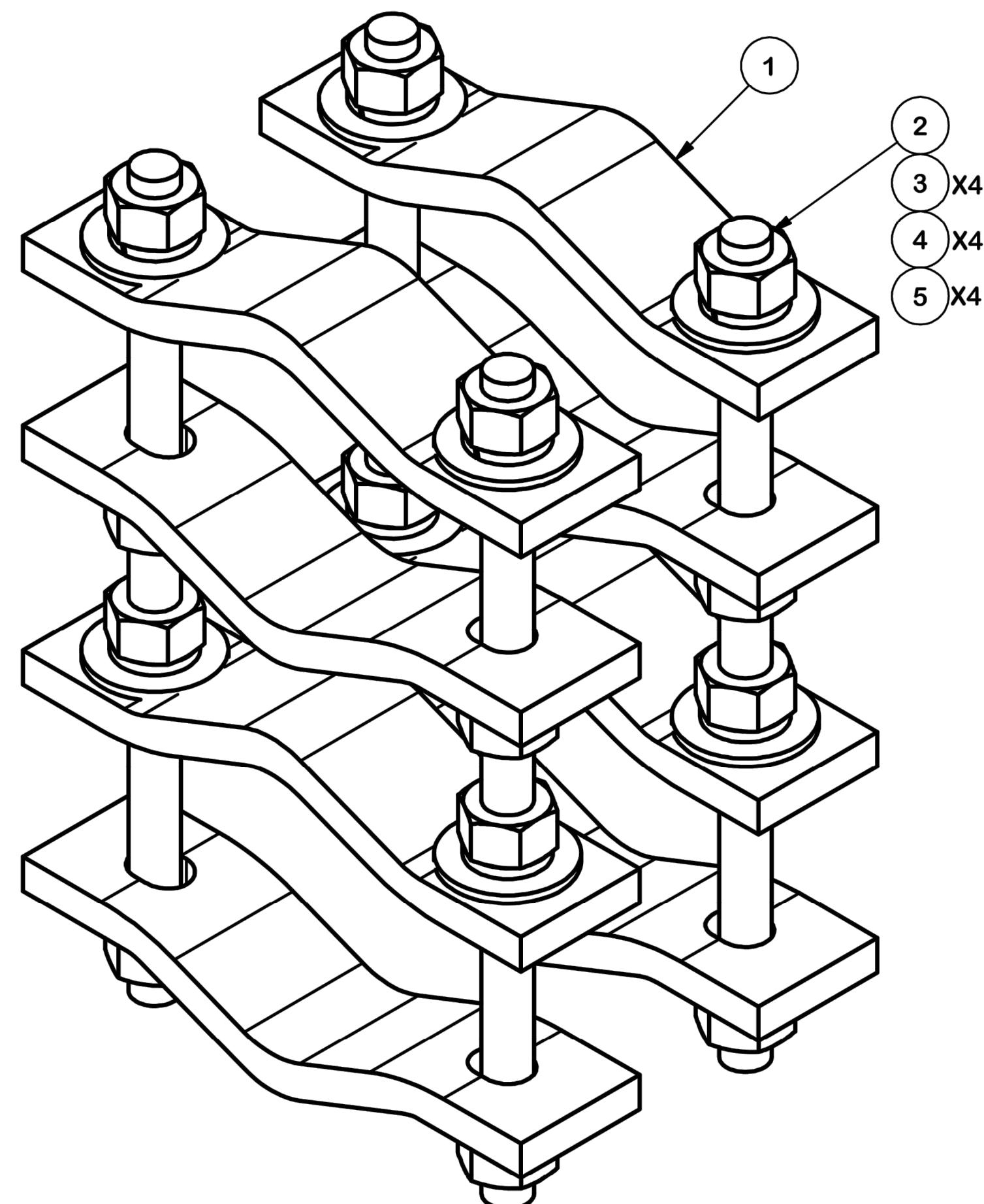
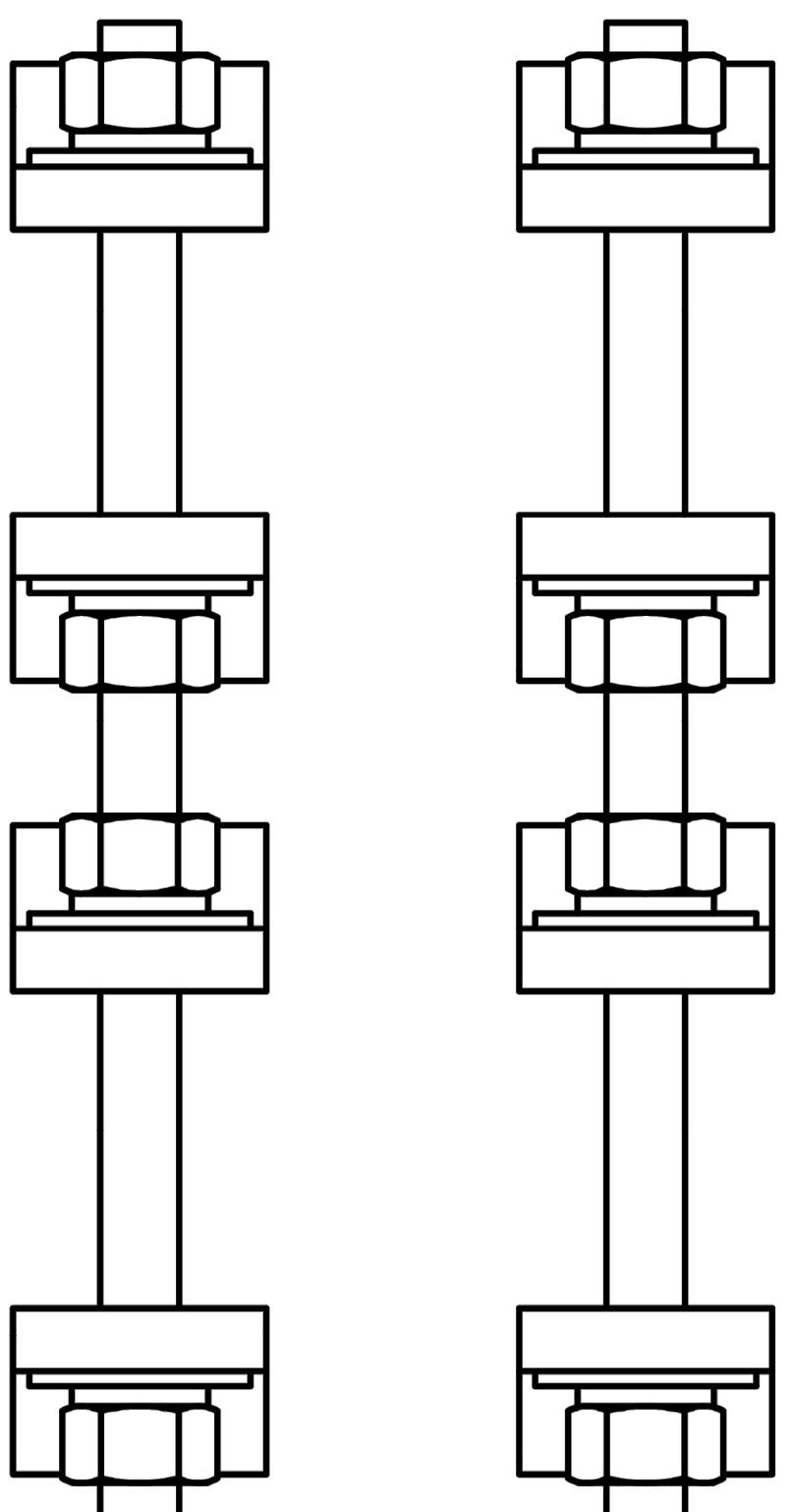
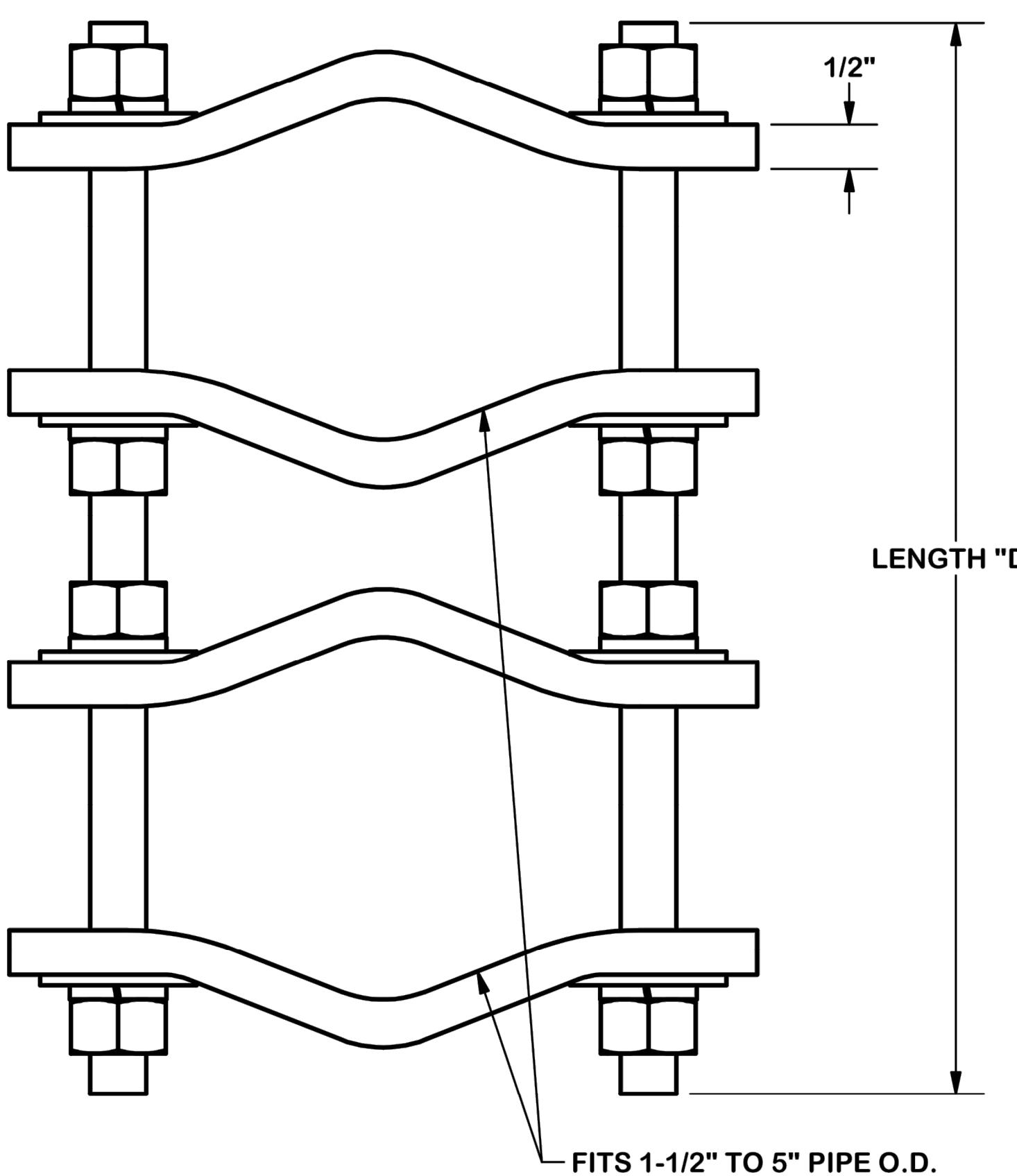
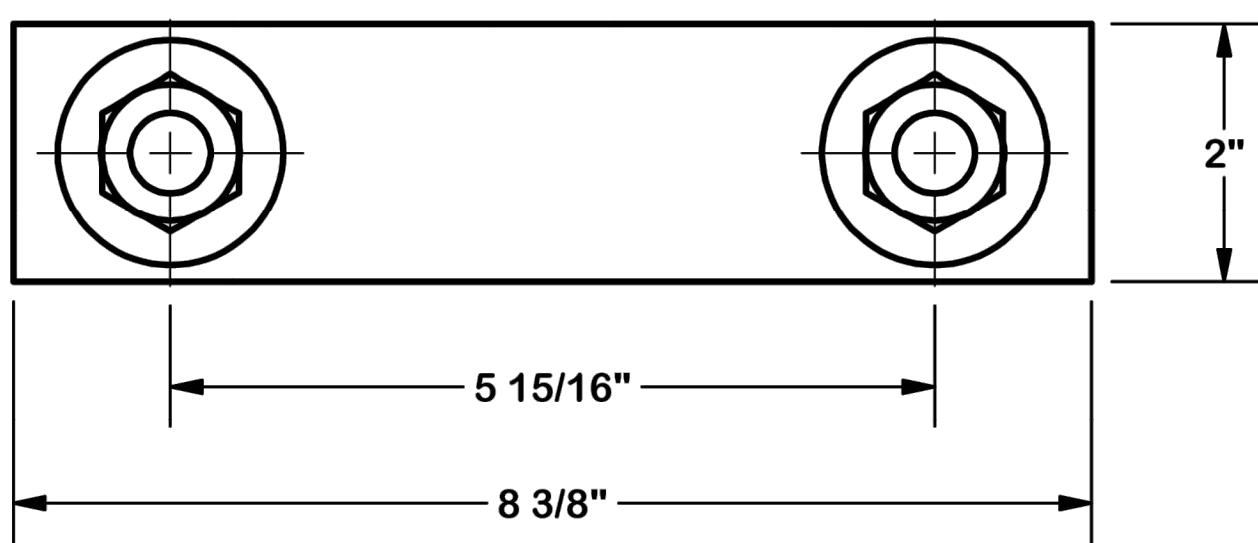
PROJECT INFORMATION:

CUTTHROAT

160 S MILLWARD ST
JACKSON, WY 83001
TETON COUNTY

SHEET TITLE: MOUNTING DETAILS

SHEET NUMBER: C-13



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	8	DCP	CLAMP HALF, 1/2" THICK, 8-3/8"		2.40	19.20
2	B	C	5/8" THREADED ROD	D	E	F
3	16	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	2.08
4	16	G58LW	5/8" HDG LOCKWASHER		0.03	0.42
5	16	G58FW	5/8" HDG USS FLATWASHER		0.07	1.13

VARIABLE PARTS TABLE						
ASSEMBLY "A"	QTY "B"	PART "C"	LENGTH "D"	UNIT WT. "E"	NET WT. "F"	TOTAL WEIGHT
DCP12K	4	G58R-12	12"	1.05	4.18	27.01
DCP18K	4	G58R-18	18"	1.57	6.27	29.10

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
PIPE TO PIPE CLAMP SET
1-1/2" TO 5" PIPE
1/2" THICK CLAMP

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

CPD NO. DRAWN BY
KC8 8/21/2012
ENG. APPROVAL
DRAWING USAGE
CUSTOMER
CHECKED BY
CEK 1/22/2013
PART NO.
DWG. NO.
SEE ASSEMBLY "A"
CLASS 81 SUB 01
PAGE 1 OF 1
DCPxK



1
C-14 **ALPHA SECTOR PHOTO**
SCALE: N.T.S.



2
C-14 **BETA SECTOR PHOTO**
SCALE: N.T.S.



3
C-14 **GAMMA SECTOR PHOTO**
SCALE: N.T.S.



4
C-14 **DELTA SECTOR PHOTO**
SCALE: N.T.S.

verizon

9656 SOUTH PROSPERITY ROAD, WEST JORDAN, UTAH 84088

PLANS PREPARED BY: **Kimley»Horn**

4582 S ULSTER ST. #1500
DENVER, CO 80237
PHONE (303) 228-2300
WWW.KIMLEY-HORN.COM

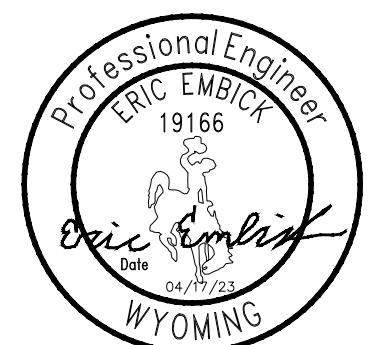
REV: ____ DATE: ____ DESCRIPTION: ____ BY: ____

0	04/17/23	FINAL	MAK
B	02/03/23	REVISED	STR
A	12/21/22	CUTTHROAT PRELIM CDs	MAK

DRAWN BY: **MAK** CHECKED BY: **MFF**

KHA PROJECT NUMBER: **196015041**

ENGINEER SEAL:



PROJECT INFORMATION:

CUTTHROAT
160 S MILLWARD ST
JACKSON, WY 83001
TETON COUNTY

SHEET TITLE: **EXISTING SECTOR**

PHOTOS

SHEET NUMBER: **C-14**

ROOFTOP POST MODIFICATION INSPECTION (PMI) REPORT REQUIREMENTS

DOCUMENTS AND PHOTOS REQUIRED FROM CONTRACTOR - ROOFTOP MOUNT MODIFICATIONS

PURPOSE:

THE PURPOSE OF THESE NOTES ARE SUCH THAT THE CONTRACT PROVIDES THE REQUESTED DOCUMENTATION THAT WILL ALLOW KIMLEY-HORN TO COMPLETE THE REQUIRED ROOFTOP MOUNT DESKTOP REVIEW OF THE POST MODIFICATION INSPECTION REPORT.

CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:

- 1.) CONTRACTOR IS RESPONSIBLE FOR PROVIDING PHOTOS AS NOTED BELOW TO VERIFY IF THE CONSTRUCTION WAS COMPLETED IN ACCORDANCE WITH THE MODIFICATION DRAWINGS.
- 2.) CONTRACTOR SHALL COMMUNICATE ANY INSTALLATION OR CONSTRUCTION ISSUES THAT IMPACT THE PERFORMANCE OF THE MOUNT, MOUNT MODIFICATIONS, AND ANY SAFETY ISSUES.

BASE REQUIREMENTS:

THE BASE REQUIREMENTS OF THE CONTRACTOR ARE AS FOLLOWS:

- 1.) IF INSTALLATION OF THE MODIFICATIONS MAY CAUSE DAMAGE TO ANY PORTION OF THE STRUCTURE, KIMLEY-HORN SHALL BE NOTIFIED PRIOR TO INSTALL. ANY REQUIRED PHOTOS BEYOND THE STANDARD LIST PROVIDED BELOW WILL BE INDICATED ON THE MODIFICATION DRAWINGS.
- 2.) PROVIDE "AS-BUILT DRAWINGS" NOTING ANY DEVIATIONS FROM THE MODIFICATION DRAWINGS, AND SHOWING CONTRACTOR'S NAME, PREPARER'S SIGNATURE, AND DATE. **NOTE:** IF LOADING DIFFERS THAT THAT SHOWN IN THE POST-MODIFICATION PASSING MOUNT ANALYSIS (MA), KIMLEY-HORN SHALL BE CONTACTED IMMEDIATELY.
- 3.) EACH PHOTO SHALL BE TIME- AND DATE-STAMPED
- 4.) PHOTOS SHALL BE HIGH-RESOLUTION (MINIMUM 1600 X 1200).
- 5.) THE PMI DOCUMENTS CAN BE UPLOADED TO THE FOLLOWING PORTAL:
<https://kimley-horn.securevdr.com/i/0ddb801f21149a79>

PHOTO REQUIREMENTS:

THE PHOTO REQUIREMENTS OF THE CONTRACT ARE AS FOLLOWS:

- 1.) PHOTOS TAKEN AT GROUND LEVEL SHOWING THE MOUNTS AT ROOF LEVEL.
- 2.) PHOTOS OF THE SIGNS SHOWING THE TOWER OWNER, SITE NAME, AND NUMBER (GENERALLY AT ROOFTOP LEVEL).
- 3.) PHOTOS OF THE MOUNT BEFORE AND AFTER INSTALLATION OF THE MODIFICATIONS; IF MOUNTS ARE AT DIFFERENT ELEVATIONS, PICTURES MUST BE PROVIDED FOR ALL ELEVATIONS THAT THE MODIFICATIONS WERE INSTALLED.
- 4.) PHOTOS SHOWING THE CLIMBING FACILITY AND SAFETY CLIMB IF PRESENT.
- 5.) PHOTOS SHOWING EACH INDIVIDUAL SECTOR AFTER INSTALLATION OF MODIFICATIONS. EACH ENTIRE SECTOR AREA MUST BE IN ONE PHOTO TO SHOW THE INTERCONNECTION OF MEMBERS.
 - 5.1.) THESE PHOTOS SHALL ALSO CERTIFY THAT THE PLACEMENT AND GEOMETRY OF THE EQUIPMENT ON THE MOUNT IS AS DEPICTED IN THE ANTENNA PLACEMENT DIAGRAM IN THIS FORM.
- 6.) PHOTOS THAT SHOW THE MODEL NUMBER OF EACH ANTENNA INSTALLED PER SECTOR/PLATFORM.
- 7.) PHOTOS OF EACH INSTALLED MODIFICATION PER THE MODIFICATION DRAWINGS; PHOTOS SHALL ALSO INCLUDE CONNECTION HARDWARE (U-BOLTS, BOLTS, NUTS, ALL-THREADED RODS, WELDS, ETC.)

MATERIAL CERTIFICATION REQUIREMENTS:

MATERIALS UTILIZED MUST BE AS SPECIFIED ON THE DRAWINGS OR AN EQUIVALENT VALIDATED BY KIMLEY-HORN.

YES NO - THE MATERIAL UTILIZED WAS AS SPECIFIED ON THE KIMLEY-HORN MOUNT MODIFICATION DRAWINGS

YES NO - THE MATERIAL UTILIZED WAS AN "EQUIVALENT" AND INCLUDED AS PART OF THE PMI ARE THE KIMLEY-HORN CERTIFICATION, INVOICES, OR SPECIFICATIONS VALIDATING ACCEPTANCE.

ANTENNA & EQUIPMENT PLACEMENT AND GEOMETRY CONFIRMATION:

THE CONTRACTOR CERTIFIES THAT THE PHOTOS SUPPORT AND THE EQUIPMENT ON THE MOUNT IS AS DEPICTED ON THE SKETCH AND TABLE INCLUDED IN THIS FORM AND WITH THE MOUNT ANALYSIS PROVIDED.

- OR -

THE CONTRACTOR NOTES THAT THE EQUIPMENT ON THE MOUNT IS NOT IN ACCORDANCE WITH THE SKETCH AND HAS NOTED THE DIFFERENCE BELOW AND PROVIDED PHOTO DOCUMENTATION OF ANY DISCREPANCIES.

COMMENTS:

SPECIAL INSTRUCTIONS/ VALIDATION AS REQUIRED FROM THE MA OR MOD DRAWINGS:

REQUEST:

RESPONSE:

CONTRACTOR CERTIFICATION:

COMPANY:

EMPLOYEE NAME:

CONTACT PHONE:

EMAIL:

DATE:

YES NO - CONTRACTOR CERTIFIES THAT THE STRUCTURE WAS NOT DAMAGED PRIOR TO OR DURING WORK.

YES NO - CONTRACTOR CERTIFIES NO NEW DAMAGE/OBSTRUCTIONS CREATED DURING THE CURRENT INSTALLATION.

YES NO - MODIFICATION WAS COMPLETED IN CONJUNCTION WITH THE EQUIPMENT CHANGE/INSTALLATION.

verizon

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Kimley»Horn

4582 S ULMER ST. #1500
DENVER, CO 80237
PHONE (303) 228-2300
WWW.KIMLEY-HORN.COM

PLANS PREPARED BY: _____

REV: _____ DATE: _____ DESCRIPTION: _____ BY: _____

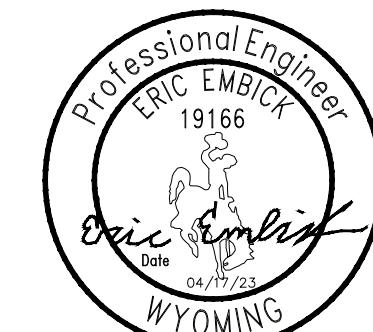
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DRAWN BY: _____ CHECKED BY: _____

MAK MFF

KHA PROJECT NUMBER: 196015041

ENGINEER SEAL:



PROJECT INFORMATION:

CUTTHROAT
160 S MILLWARD ST
JACKSON, WY 83001
TETON COUNTY

SHEET TITLE: PMI REPORT REQUIREMENTS

SHEET NUMBER: PMI-1