

**GENERAL INFORMATION**

1. THIS UNSTAFFED AND RESTRICTED EQUIPMENT SITE, WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNALS FOR THE PURPOSE OF PROVIDING PUBLIC CELLULAR SERVICE.
2. T-MOBILE CERTIFIES THAT THIS WIRELESS EQUIPMENT FACILITY WILL BE SERVICED ONLY BY CARRIER EMPLOYEES AND THE WORK ASSOCIATED WITH ANY EQUIPMENT CANNOT BE PERFORMED BY HANDICAPPED PERSONS. THIS FACILITY WILL BE FREQUENTED ONLY BY SERVICE PERSONNEL FOR REPAIR PURPOSES. PURSUANT TO THE AMERICANS WITH DISABILITIES ACT (ADA), APPENDIX B SECTION 4.11 (5) (b), THIS FACILITY IS EXEMPT FROM THAT ACT.
3. NO POTABLE WATER SUPPLY IS TO BE PROVIDED AT THIS LOCATION.
4. NO WASTE WATER OR SOLID WASTE WILL BE GENERATED AT THIS LOCATION.
5. T-MOBILE MAINTENANCE CREW (ONE PERSON) WILL MAKE AN AVERAGE OF ONE TRIP PER MONTH AT ONE HOUR PER TRIP.



**DEFERRED SUBMITTALS:**  
DRAWINGS, CALCULATIONS AND PRODUCT DATA FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS SHALL BE SUBMITTED TO THE EOR FOR APPROVAL PRIOR TO SUBMITTING TO THE BUILDING DEPARTMENT FOR REVIEW AND PRIOR TO FABRICATION.

City of Kirkland  
Reviewed by:  
Thomas Hoque, PCO  
Todd Anderson, FIRE



PLANS PREPARED BY:  
**CORNERSTONE ENGINEERING, INC.**  
16928 WOODINVILLE-REDMOND RD NE, SUITE 210  
WOODINVILLE, WA 98072  
PHONE: 425.487.1732  
WWW.CORNERSTONE-ENGR.COM

PROJECT INFO:  
SE03314B  
TOTEM LOCKE  
12504 116TH AVENUE NE  
KIRKLAND, WA 98034  
KING COUNTY

ISSUED FOR:  
**CONSTRUCTION**

REV. DATE ISSUED FOR BY:

1	08-10-20	REVISED RFDS	JRF
0	08-05-20	FINAL	DMO
A	06-15-20	PRELIMINARY	DMO

DRAWN BY: CHK.: APV.:  
DMO MWO MWO

CURRENT ISSUE DATE:  
**08-10-20**

LICENSURE:

JURISDICTIONAL APPROVAL:  
**CITY OF KIRKLAND  
REVIEWED BY TCHAN  
10/26/2020**

PROPRIETARY INFORMATION:  
DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS AND OMISSIONS. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY PROHIBITED.

DRAWING TITLE:  
**TITLE SHEET**

DRAWING NUMBER:  
**T-1 1**  
CEI JOB NUMBER: ANCHOR 20-06029

A SEPARATE ELECTRICAL PERMIT IS REQUIRED.

SITE NAME:

**TOTEM LOCKE**

SITE NUMBER:

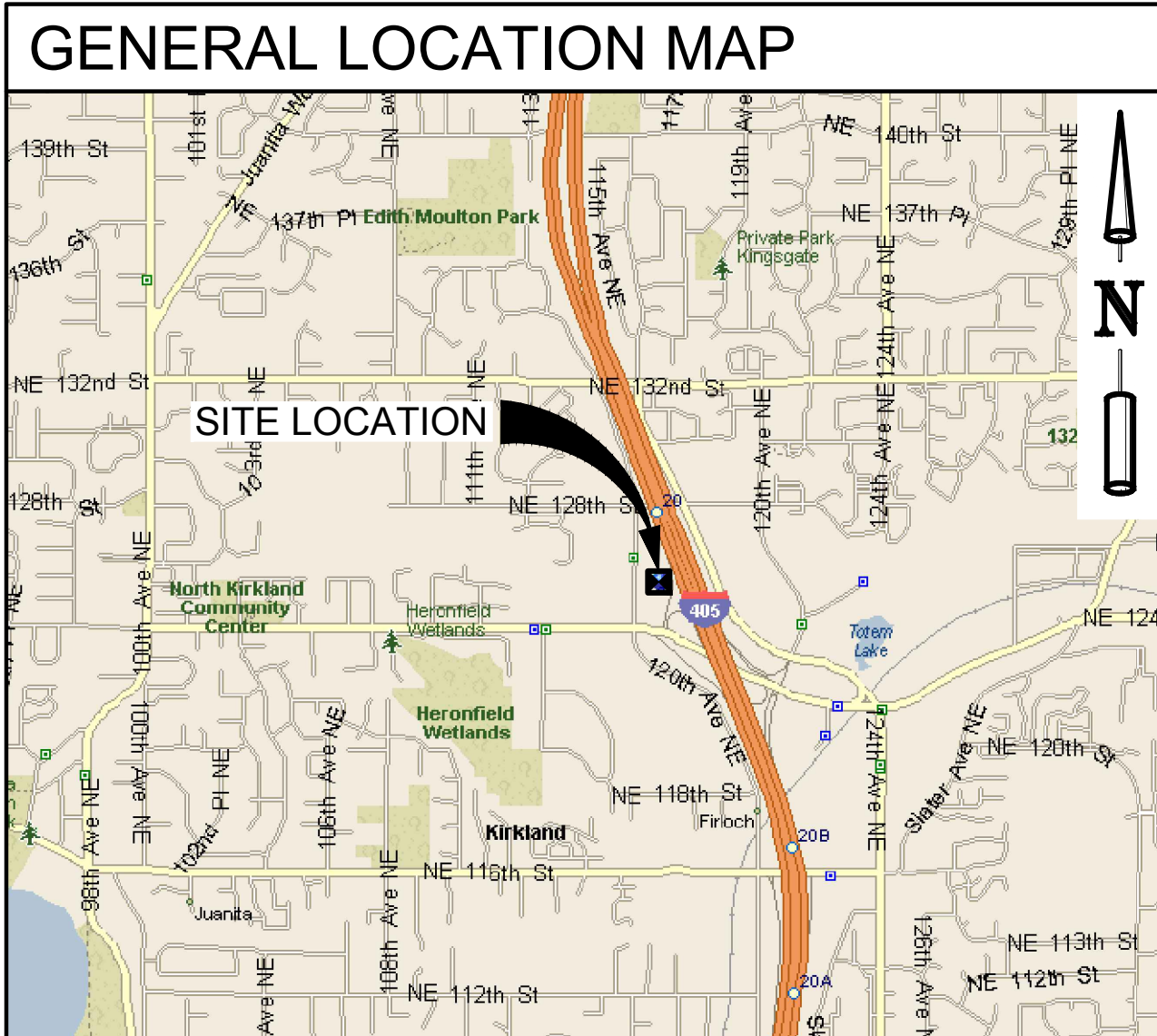
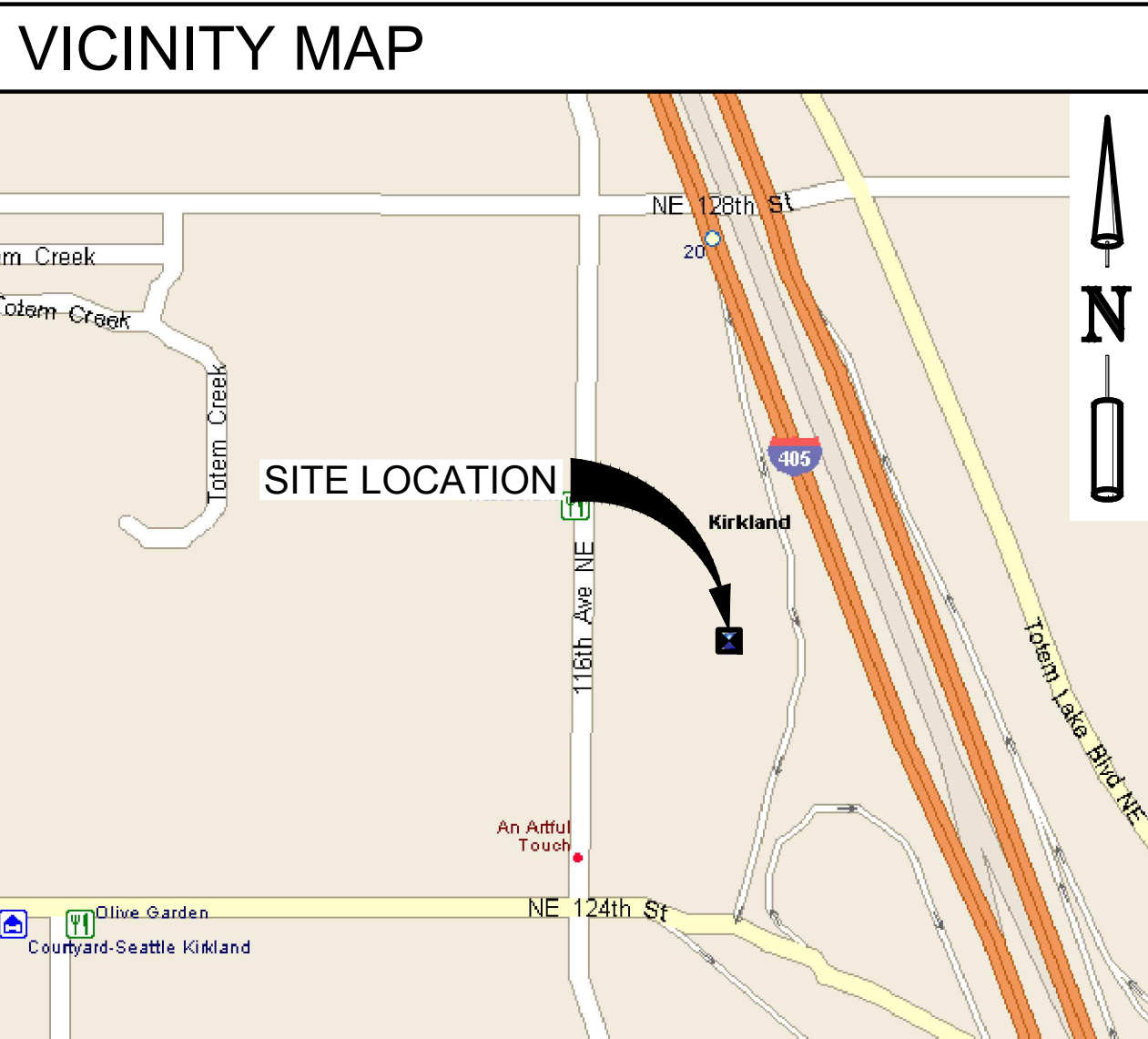
**SE03314B**

PROJECT:  
ANCHOR / L600

LOCATION:

12504 116TH AVENUE NE. KIRKLAND, WA 98034

ALL Welding:  
Is required to be done by a WABO certified welder and have Special Inspections by a WABO certified Inspection Agency or Be done in a WABO certified fabrication shop.  
Have either the special inspection report or the WABO fabrication shop certification available on site for the Building Inspector.



**PROJECT TEAM**

**APPLICANT:**  
T-MOBILE  
19807 NORTH CREEK PARKWAY  
BOTHELL, WA 98011

**PROJECT ENGINEER:**  
CORNERSTONE ENGINEERING, INC.  
16928 WOODINVILLE-REDMOND RD N.E.  
STE 210  
WOODINVILLE, WA 98072  
MARK W OLSON, P.E.  
(425) 487-1732

**PROJECT CONSULTANT:**  
RYKA CONSULTING  
5628 AIRPORT WAY S., STE 112  
SEATTLE, WA 98108  
(206) 523-1941

**PROPERTY OWNER:**  
NORSCOT ENTERPRISES, LLC  
12504 116TH AVE NE  
KIRKLAND, WA 98034

**PROJECT MANAGER:**  
JESSICA PIERCE  
(206) 523-1941  
jpierce@rykaconsulting.com

**CONSTRUCTION MANAGER:**  
SEBASTIAN LEW  
(206) 523-1941  
slew@rykaconsulting.com

**SITE ACQUISITION:**  
KELLER HIGBEE  
(206) 523-1941  
khigbee@rykaconsulting.com

**PERMITTING:**  
CHRISTINE CONTRERAS  
(206) 523-1941  
ccontreras@rykaconsulting.com

**APPROVAL/SIGN OFF OF DRAWINGS**

CONSULTANT	DATE	SIGNATURE
PROJECT LEAD		
CONSTRUCTION MANAGER		
SITE ACQUISITION		
LANDLORD'S REPRESENTATIVE		
CARRIER	DATE	SIGNATURE
DEVELOPMENT MANAGER		
PROJECT MANAGER		
RF ENGINEER		
OPERATIONS MANAGER		
CONSTRUCTION MANAGER		
REGULATORY REVIEW		

REVIEWERS SHALL CLEARLY PLACE INITIALS ADJACENT TO EACH REDLINE NOTE AS DRAWINGS ARE BEING REDLINED

**DRIVING DIRECTIONS**

FROM T-MOBILE BOTHELL, WA OFFICE:  
DEPART SOUTH ON N CREEK PKWY  
TURN RIGHT ONTO NE 195TH ST  
NORTHCREEK CHEVRON ON THE CORNER  
TAKE RAMP LEFT FOR I-405 S  
TOLL ROAD  
TAKE RAMP LEFT AND FOLLOW SIGNS FOR NE 128TH ST  
TOLL ROAD  
TURN RIGHT ONTO NE 128TH ST, AND THEN IMMEDIATELY TURN LEFT ONTO 116TH AVE NE  
ARRIVE AT 116TH AVE NE, BEHIND McDONALDS  
47.712553, -122.185344

**LEGAL DESCRIPTION**

POR OF SW 1/4 OF NW 1/4 LY WLY OF PSH NO 1 SLY OF LN BEG AT PT 644.68 FT N OF SW COR OF SUBD TH S 85-13-30 E 157.40 FT TH S 54-19-00 E TO ELY LN & N OF LN RNG S 88-02-09 E FR PT 376.07 FT N OF SW COR OF SUBD LESS CO RD LESS BAAP ON W LN THOF N 01-57-51 E 401.07 FT & S 88-02-09 E 42 FT FR SW COR OF SD SUBD TH N 01-57-51 E 186 FT TH S 88-02-09 E 155.22 FT TH S 53-03-39 E 83.86 FT TH S 01-57-51 W 137.93 FT TH N 88-02-09 W 223.93 FT TO BEG. PER KING COUNTY ASSESSOR RECORDS

**PROJECT INFORMATION**

**CODE INFORMATION:**  
ZONING CLASSIFICATION: TL 6B  
BUILDING CODE: IBC 2015  
CONSTRUCTION TYPE: V-B  
OCCUPANCY: GROUP U  
JURISDICTION: CITY OF KIRKLAND, WA  
PROPOSED BUILDING USE: TELECOMM

**PARCEL NUMBER:**  
282605-9096

**AREA OF PARCEL:**  
±0.54 ACRES

**PROJECT AREA:**  
±135.0 SQ FT (EQUIPMENT AREA)

**NEW IMPERVIOUS AREA:**  
0 SQ. FT.

**SITE LOCATION (BASED ON NAD 83):**  
LATITUDE: 47° 42' 45.19" N (47.712553)  
LONGITUDE: 122° 11' 07.24" W (-122.185344)  
TOP OF STRUCTURE: 24.0' (TOP OF BUILDING)  
BASE OF STRUCTURE: 127.3' AMSL 1-A REPORT 4/17

**GENERAL INFORMATION:**  
1. PARKING REQUIREMENTS ARE UNCHANGED. (NON ASSIGNED TECH PARKING)  
2. TRAFFIC IS UNAFFECTED.

**DRAWING INDEX**

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T-1	TITLE SHEET
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A-1.2	EXISTING & PROPOSED EQUIPMENT PLANS
A-1.3	ANTENNA PLANS & SCHEDULES
A-2	EXISTING & PROPOSED NORTH ELEVATIONS
A-3	DETAIL SHEET
A-3.1	DETAIL SHEET
A-3.2	DETAIL SHEET
A-3.3	DETAIL SHEET
A-3.4	DETAIL SHEET
RF-1	RF DETAILS
RF-1.1	RF DETAILS
E-1	SCHEMATIC GROUNDING PLAN & DETAILS
E-1.1	ELECTRICAL DIAGRAMS
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S-1	STRUCTURAL NOTES (BY OTHERS)
S-2	ANTENNA FRAMING PLANS (BY OTHERS)
S-3	STRUCTURAL DETAILS (BY OTHERS)

**PROJECT DESCRIPTION**

**ANTENNA (ROOFTOP) WORK:**

**REMOVE:**

- (ALL) 7/8"Ø COAX LINES
- (12) AWS/PCS DIPLEXERS (6 PER SECTOR)
- (2) FRIG RRU'S
- (2) FHFB RRU'S
- (2) COVP UNITS
- (2) HCS 1.0 HYBRID CABLES
- (1) ROOFTOP EQUIPMENT PLATFORM

**REPLACE:**

- (2) HEX ANTENNAS W/ (2) OCTOPORT ANTENNAS

**ADD:**

- (2) AEHC RRU'S
- (2) AHLOA RRU'S
- (2) AHFIG RRU'S
- (2) HCS 2.0 HYBRID CABLES W/ PENDANTS
- (1) 6'x6'x10' TALL FRP ANTENNA / EQUIPMENT ENCLOSURE (ALPHA SECTOR)

**EQUIPMENT (GROUND) WORK:**

**REMOVE:**

- (1) PURCELL POWER CABINET
- (1) NOKIA ULTRASITE CABINET
- (1) FCOA CABINET
- (2) POWER/TELCO CABINETS
- (1) COVP UNIT
- ALL UNUSED FLEXI SYSTEM MODULES

**REPLACE:**

- (1) CSR 7210 ROUTER W/ (1) CSR IXRe ROUTER
- 100 AMP SERVICE W/ 200 AMP SERVICE (PER SEPARATE SCOPE OF WORK UNDER SEPARATE ELECTRICAL PERMIT)

**ADD:**

- (ALL) NEW FLEXI SYSTEM MODULES PER LATEST RFDS
- (1) HPL3 POWER CABINET
- (1) HPL3 BATTERY CABINET
- (2) HCS 2.0 JUNCTION BOX
- (1) AAV CUBE
- (1) LED SERVICE LIGHT W/ 4 HR TIMER
- (1) EQUIPMENT H-FRAME
- (1) 200 AMP PPC PANEL

**REMAIN:**

- (1) FSMF BASEBAND UNIT (RE-USED)
- (1) GPS ANTENNA

PER RFDS VERSION: 5.0 - 08/07/2020 - 8:59:45 AM  
PROJECT TYPE: ANCHOR

GENERAL NOTES:

- 1. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE...
2. PRIOR TO THE SUBMISSION OF BIDS, CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE TO FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT...
3. THE ARCHITECTS/ENGINEERS HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK...
4. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS...
5. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S/VENDOR'S SPECIFICATIONS...
6. ALL WORK PERFORMED ON THE PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES...
7. GENERAL CONTRACTOR SHALL PROVIDE, AT THE PROJECT SITE, A FULL SET OF CONSTRUCTION DOCUMENTS UPDATED WITH THE LATEST REVISIONS AND ADDENDA...
8. THE STRUCTURAL COMPONENTS OF ADJACENT CONSTRUCTION OR FACILITIES ARE NOT TO BE ALTERED BY THIS CONSTRUCTION PROJECT...
9. SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL APPROVED MATERIALS...
10. CONTRACTOR TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE...
11. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION...
12. CONTRACTOR SHALL KEEP GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION...
13. THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED...
14. THE CONTRACTOR SHALL PERFORM WORK DURING OWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS...
15. THE CONTRACTOR SHALL PROVIDE THE CLIENT PROPER INSURANCE CERTIFICATES NAMING CLIENT AS ADDITIONAL INSURED, AND CLIENT PROOF OF LICENSE(S) AND PE & PD INSURANCE...
16. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL INSPECTIONS...
17. CAUTION! CALL BEFORE YOU DIG! BURIED UTILITIES EXIST IN THE AREA AND UTILITY INFORMATION SHOWN MAY NOT BE COMPLETE...
18. CONTRACTOR TO DOCUMENT ALL WORK PERFORMED WITH PHOTOGRAPHS AND SUBMIT TO CLIENT ALONG WITH REDLINED CONSTRUCTION SET...
19. CONTRACTOR TO DOCUMENT ALL CHANGES MADE IN THE FIELD BY MARKING UP (REDLINING) THE APPROVED CONSTRUCTION SET...
20. FOR COLLOCATION SITES: CONTACT TOWER OWNER REPRESENTATIVE FOR PARTICIPATION IN BID WALK...
21. GENERAL CONTRACTOR IS TO COORDINATE ALL POWER INSTALLATION WITH POWER COMPANY AS REQUIRED...
22. ANY SUBSTITUTIONS OF MATERIALS AND/OR EQUIPMENT, MUST BE APPROVED BY CLIENT CONSTRUCTION MANAGER...
23. IN THE CASE OF ROOFTOP SOLUTIONS FOR EQUIPMENT AND/OR ANTENNA FRAMES WHERE PENETRATIONS OF EXISTING ROOFING MATERIALS OCCUR...
24. IN THE CASE OF ROOFTOP SOLUTIONS WITH THE INSTALLATION OF ANTENNAS WITHIN CONCEALED (SHROUDED) SUPPORT FRAMES OR TRIPODS...
25. IN THE CASE OF ROOFTOP SOLUTIONS FOR EQUIPMENT AND/OR ANTENNA FRAMES WHERE ANCHORING TO A CONCRETE ROOF SLAB IS REQUIRED...

26. GENERAL & SUB CONTRACTORS SHALL USE STAINLESS STEEL METAL LOCKING TIES FOR ALL CABLE TRAY TIE DOWNS AND ALL OTHER GENERAL TIE DOWNS (WHERE APPLICABLE) PLASTIC ZIP TIES SHALL NOT BE PERMITTED FOR USE ON CLIENT PROJECTS...

DESIGN CRITERIA:

THE STRUCTURAL DESIGN OF THIS PROJECT IS IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE WITH WASHINGTON STATE BUILDING CODE AMENDMENTS (2015 IBC)

DESIGN LOADS:

DESIGN DATA FOR THE CITY OF KIRKLAND, WA:

Table with 3 columns: Load Type, Value, and Units. Includes -ROOF SNOW LOAD (25 psf), -BASIC WIND SPEED (110 MPH), and -WIND EXPOSURE (B).

CODE COMPLIANCE:

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

Table with 2 columns: Code Type and Reference. Lists BUILDING/DWELLING CODE (2015 IBC, 2015 IRC), STRUCTURAL CODE (2015 IBC), MECHANICAL CODE (2015 IMC), ELECTRICAL CODE (2017 NEC), and FIRE/LIFE SAFETY CODE (2015 IFC).

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2015 IBC BUILDING CODE.

CONCRETE NOTES:

Table with 4 columns: TYPE OF CONSTRUCTION, 28 DAY STRENGTHS (fc), W/C RATIO, and MINIMUM CEMENT CONTENT PER CUBIC YARD. Lists slabs on grade, structural concrete, and concrete walls.

CEMENT SHALL BE ASTM C150, PORTLAND CEMENT TYPE II U.N.O.

- 2. THE GENERAL CONTRACTOR SHALL SUPERVISE AND BE RESPONSIBLE FOR THE METHODS AND PROCEDURES OF CONCRETE PLACEMENT.
3. ALL CONCRETE WITH SURFACES EXPOSED TO STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT...
4. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, fy=60,000 PSI...
5. REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 315 AND 318...
6. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.
7. SPIRAL REINFORCEMENT SHALL BE PLAIN WIRE CONFORMING TO ASTM A615, GRADE 60...
8. NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED...
11. BARS SHALL BE SUPPORTED ON CHAIRS OR DOBBIE BRICKS.
12. ANCHOR BOLTS TO CONFORM TO ASTM A307.
13. NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER...
14. ALL EXPANSION ANCHORS TO BE HILTI BRAND...

STRUCTURAL STEEL NOTES:

- 1. SHOP DRAWINGS FOR STRUCTURAL STEEL SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW PRIOR TO FABRICATION.
2. STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION (INCLUDING FIELD WELDING, HIGH STRENGTH FIELD BOLTING, EXPANSION BOLTS, AND THREADED EXPANSION ANCHORS) SHALL BE BASED ON THE A.I.S.I. "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" LATEST EDITION...
3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
TYPE OF MEMBER
A. WIDE FLANGE SHAPE
B. OTHER SHAPE, PLATES AND ROD
C. PIPE COLUMNS
D. STRUCTURAL TUBING
E. ANCHOR BOLTS
F. CONNECTION BOLTS
4. ALL MATERIAL TO BE HOT DIPPED GALVANIZED AFTER FABRICATION PER A123/A123M-13.
5. ALL WELDING SHALL BE IN CONFORMANCE WITH A.I.S.I. AND AWS STANDARDS...
6. COLD-FORMED STEEL FRAMING MEMBERS SHALL BE OF THE SHAPE, SIZE, AND GAGE SHOWN ON THE PLANS...
7. BOLTED CONNECTIONS SHALL USE BEARING TYPE ASTM A325 BOLTS...
8. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A307 BOLTS...
9. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE DESIGN & CONSTRUCTION SPECIFICATION...
11. TOUCH UP ALL FIELD DRILLING AND WELDING WITH 2 COATS OF GALVACON (ZINC RICH PAINT) OR APPROVED EQUAL.

TOWER/POLE NOTES:

- 1. VERIFICATION THAT THE PROPOSED TOWER/POLE CAN SUPPORT THE PROPOSED ANTENNA LOADING IS TO BE DONE BY OTHERS.
2. PROVIDE SUPPORTS FOR THE ANTENNA COAX CABLES TO THE ELEVATION OF ALL INITIAL AND FUTURE ANTENNAS...

ABBREVIATED ROOFTOP SAFETY PROCEDURES (WHEN APPLICABLE):

(AS PER "ACCIDENT PREVENTION PROGRAM" - BY PERMISSION OF WREN CONSTRUCTION, INC. - 03/01/99)

FALL PROTECTION METHODS AND EQUIPMENT ROOF TOP INSTALLATIONS

- 1. FOR WORK BEING PERFORMED WITHIN 25' OF AN UNPROTECTED ROOF EDGE, THE CONSTRUCTION SUPERVISOR SHALL DESIGNATE A TRAINED SAFETY MONITOR TO OBSERVE THE MOVEMENTS AND ACTIVITIES OF THE CONSTRUCTION WORKERS.
2. SAFETY MONITOR SHALL WARN CONSTRUCTION WORKERS OF HAZARDS (I.E., BACKING UP TOWARD A ROOF EDGE, ETC.) OR UNSAFE ACTIVITIES...
3. CONSTRUCTION INVOLVING WORKERS TO APPROACH WITHIN 6' OR LESS OF AN UNPROTECTED ROOF EDGE, REQUIRES WORKERS TO USE SAFETY LINE.
4. SAFETY LINE SHALL BE MINIMUM 1/2" DIAMETER NYLON, WITH A NOMINAL TENSILE STRENGTH OF 5400 LBS.
5. SAFETY LINE SHALL BE ATTACHED TO A SUBSTANTIAL MEMBER OF THE STRUCTURE.
6. SAFETY LINE LENGTH SHALL BE SET ALLOWING CONSTRUCTION WORKER TO REACH EDGE OF ROOF, BUT NOT BEYOND.
7. SAFETY BELTS SHALL BE WORN BY ALL CONSTRUCTION WORKERS.
8. MONTHLY SAFETY INSPECTION AND MAINTENANCE OF THE FALL PROTECTION EQUIPMENT SHALL OCCUR BY THE SAFETY COMMITTEE REPRESENTATIVES...

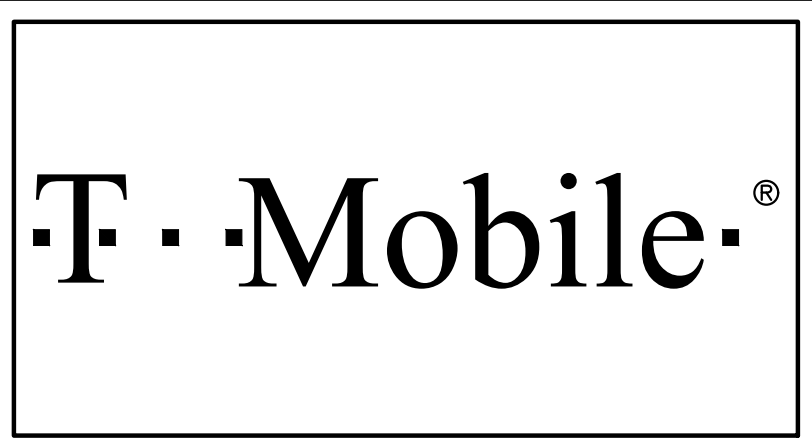
REFER TO ROOFTOP WORK AREA SAFETY PROTOCOL NATIONAL ASSOCIATION OF TOWER ERECTORS 2000 PUBLICATION

REFERENCED OSHA REGULATION/STANDARDS SHALL BE REVIEWED BY TOWER ERECTORS, EQUIPMENT INSTALLERS, AND TOWER/ROOF TOP CONTRACTORS/SUBCONTRACTORS
29 CFR 1926.500 - SCOPE, APPLICATION, AND DEFINITIONS
29 CFR 1926.501 - DUTY TO HAVE FALL PROTECTION
19 CFR 1926.502 - FALL PROTECTION SYSTEMS CRITERIA AND PRACTICES

CALL TWO WORKING DAYS BEFORE YOU DIG! 811 NATIONAL UTILITIES UNDERGROUND LOCATE SAFETY PRECAUTION SHALL BE IMPLEMENTED BY CONTRACTORS AT ALL TRENCHING IN ACCORDANCE WITH CURRENT OSHA STANDARDS...

SYMBOLS AND ABBREVIATIONS

Table with 4 columns: Symbol, Description, Symbol, Description. Lists symbols for air conditioning, building, ceiling, double diameter, gauge, horizontal, inch, info, insulation, interior, international building code, pounds, plate, centerline, existing, detail number, sheet number, chain-link fence, wood fence, telephone, power, ground wire, coaxial cable, maximum, mechanical, metal, manufacture, manager, minimum, miscellaneous, not applicable, not in contract, near side, not to scale, on center, outside diameter, over head, radius, required, room, rough opening, schedule, sheet, similar, specification, square foot, stainless steel, steel, structural standard, square foot, square inch, suspended, thick, through, tinne, top of, top of steel, typical, unless noted otherwise, vertical, verify in field, with, without, water proof.



PLANS PREPARED BY:

CORNERSTONE ENGINEERING, INC. 16928 WOODINVILLE-REDMOND RD NE, SUITE 210 WOODINVILLE, WA 98072 PHONE: 425.487.1732 WWW.CORNERSTONE-ENGR.COM

PROJECT INFO:

SE03314B TOTEM LOCKE 12504 116TH AVENUE NE KIRKLAND, WA 98034 KING COUNTY

ISSUED FOR:

CONSTRUCTION

REV: DATE: ISSUED FOR: BY:

Table with 4 columns: Revision Symbol, Date, Issued For, By. Shows revisions 1, 0, and A.

DRAWN BY: CHK.: APV.:

Table with 3 columns: DMO, MWO, MWO

CURRENT ISSUE DATE:

08-10-20

LICENSURE:

Professional Engineer Seal for Mark Wesley, State of Washington, License No. 32204, Registered Professional Engineer, expires 8-10-2020.

JURISDICTIONAL APPROVAL:

CITY OF KIRKLAND REVIEWED BY TCHAN 10/26/2020

PROPRIETARY INFORMATION:

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DRAWING TITLE:

GENERAL NOTES

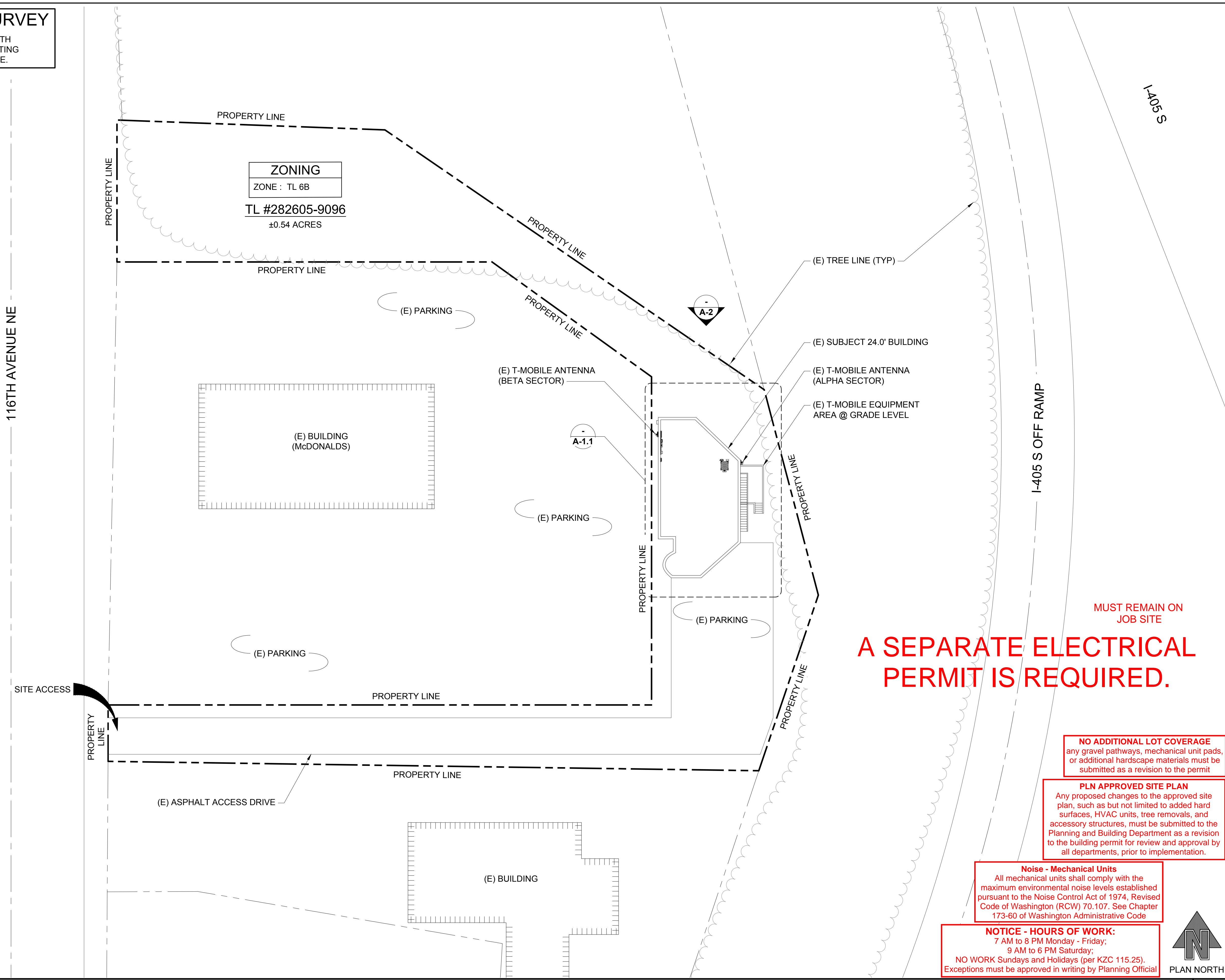
DRAWING NUMBER:

G-1 1 CEI JOB NUMBER: ANCHOR 20-06029

**THIS IS NOT A SURVEY**

ALL INFORMATION AND TRUE NORTH HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND ARE APPROXIMATE.

116TH AVENUE NE



I-405 S

I-405 S OFF RAMP

**ZONING**  
ZONE : TL 6B  
TL #282605-9096  
±0.54 ACRES

A-1.1

A-2

**A SEPARATE ELECTRICAL PERMIT IS REQUIRED.**

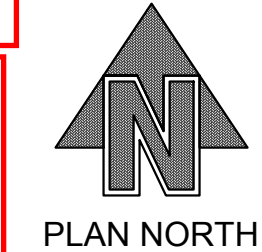
MUST REMAIN ON JOB SITE

**NO ADDITIONAL LOT COVERAGE**  
any gravel pathways, mechanical unit pads, or additional hardscape materials must be submitted as a revision to the permit

**PLN APPROVED SITE PLAN**  
Any proposed changes to the approved site plan, such as but not limited to added hard surfaces, HVAC units, tree removals, and accessory structures, must be submitted to the Planning and Building Department as a revision to the building permit for review and approval by all departments, prior to implementation.

**Noise - Mechanical Units**  
All mechanical units shall comply with the maximum environmental noise levels established pursuant to the Noise Control Act of 1974, Revised Code of Washington (RCW) 70.107. See Chapter 173-60 of Washington Administrative Code

**NOTICE - HOURS OF WORK:**  
7 AM to 8 PM Monday - Friday;  
9 AM to 6 PM Saturday;  
NO WORK Sundays and Holidays (per KZC 115.25).  
Exceptions must be approved in writing by Planning Official



**T-Mobile®**

PLANS PREPARED BY:

**CORNERSTONE ENGINEERING, INC.**  
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CURRENT ISSUE DATE:

**08-10-20**

LICENSURE:

**Mesley**  
MCK WESLEY  
STATE OF WASH  
32204  
REGISTERED  
PROFESSIONAL ENGINEER  
8-10-2020

JURISDICTIONAL APPROVAL:

**CITY OF KIRKLAND**  
REVIEWED BY TCHAN  
10/26/2020

PROPRIETARY INFORMATION:

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DRAWING TITLE:

**SITE PLAN**

DRAWING NUMBER:

**A-1 1**

CEI JOB NUMBER: ANCHOR 20-06029

**SITE PLAN**

22x34 SCALE: 1" = 20'-0"

11x17 SCALE: 1" = 40'-0"

1

PLANS PREPARED BY:



16928 WOODINVILLE-REDMOND RD NE, SUITE 210  
WOODINVILLE, WA 98072  
PHONE: 425.487.1732  
WWW.CORNERSTONE-ENGR.COM

PROJECT INFO:

SE03314B

TOTEM LOCKE

12504 116TH AVENUE NE  
KIRKLAND, WA 98034  
KING COUNTY

ISSUED FOR:

CONSTRUCTION

REV: DATE: ISSUED FOR: BY:

REV	DATE	ISSUED FOR	BY
1	08-10-20	REVISED RFDS	JRF
0	08-05-20	FINAL	DMO
A	06-15-20	PRELIMINARY	DMO

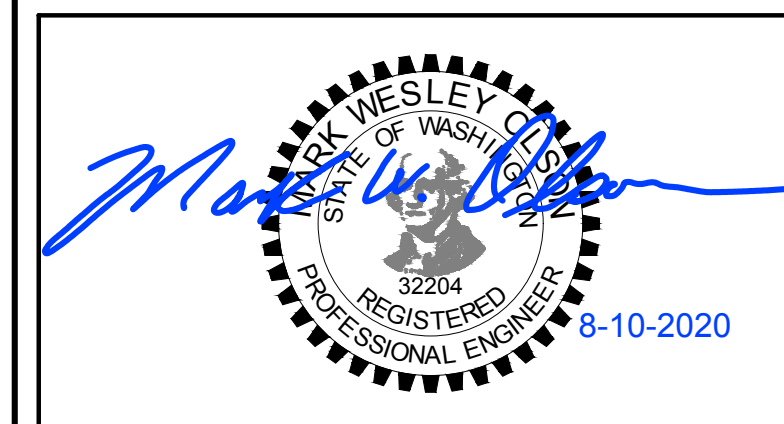
DRAWN BY: CHK.: APV.:

DMO MWO MWO

CURRENT ISSUE DATE:

08-10-20

LICENSURE:



JURISDICTIONAL APPROVAL:

CITY OF KIRKLAND  
REVIEWED BY TCHAN  
10/26/2020

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DRAWING TITLE:

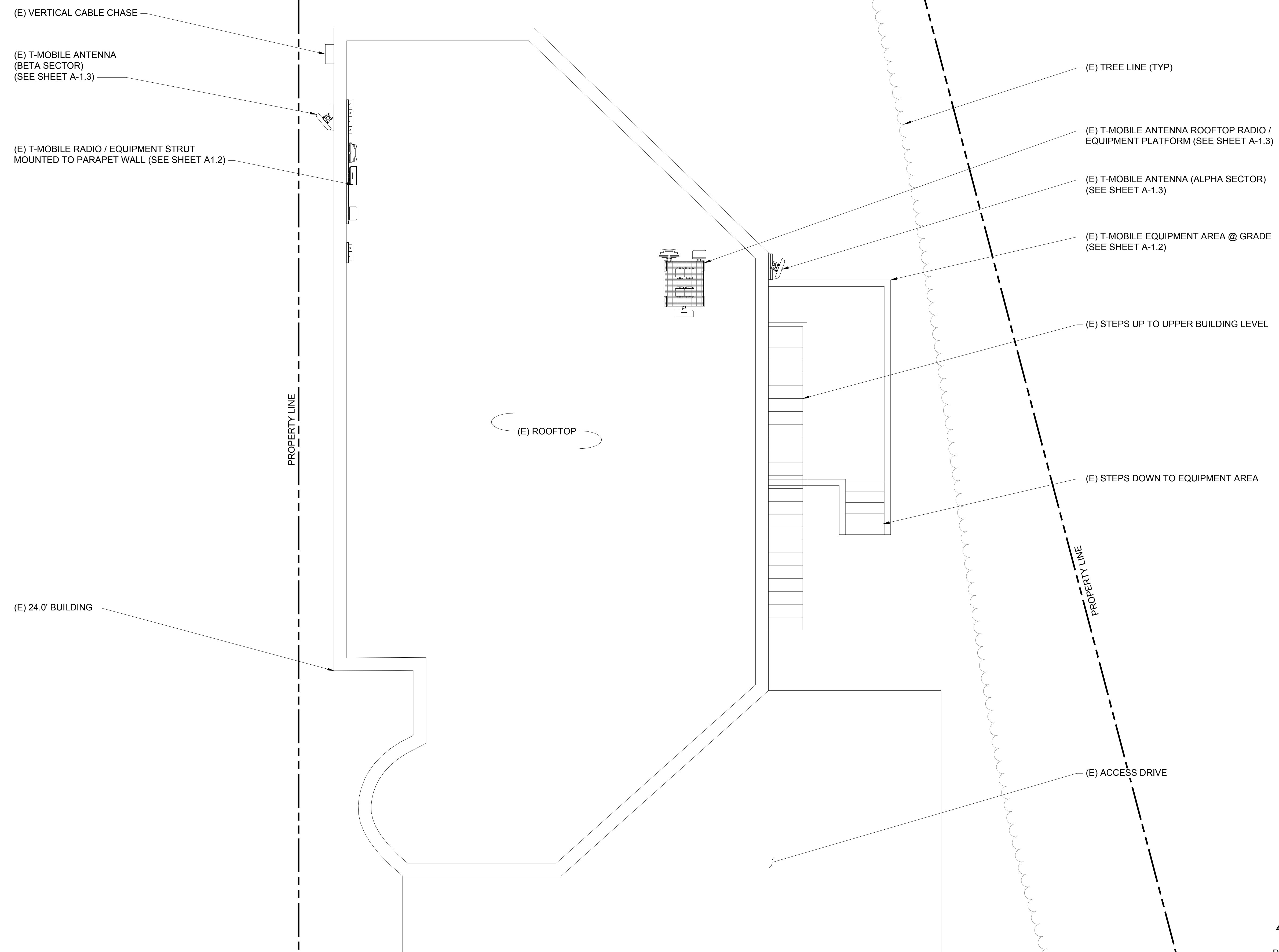
EXISTING ENLARGED SITE PLAN

DRAWING NUMBER:

A-1.1 1

CEI JOB NUMBER: ANCHOR 20-06029

**NOTE:**  
• SEE A-1.3 FOR ANTENNA PLANS  
• SEE A-1.2 FOR EQUIPMENT PLANS  
• LADDER REQ'D FOR ROOFTOP ACCESS



EXISTING ENLARGED SITE PLAN

22x34 SCALE: 1/4" = 1'-0" | 11x17 SCALE: 1/8" = 1'-0"



1

PLANS PREPARED BY:



16928 WOODINVILLE-REDMOND RD NE, SUITE 210  
WOODINVILLE, WA 98072  
PHONE: 425.487.1732  
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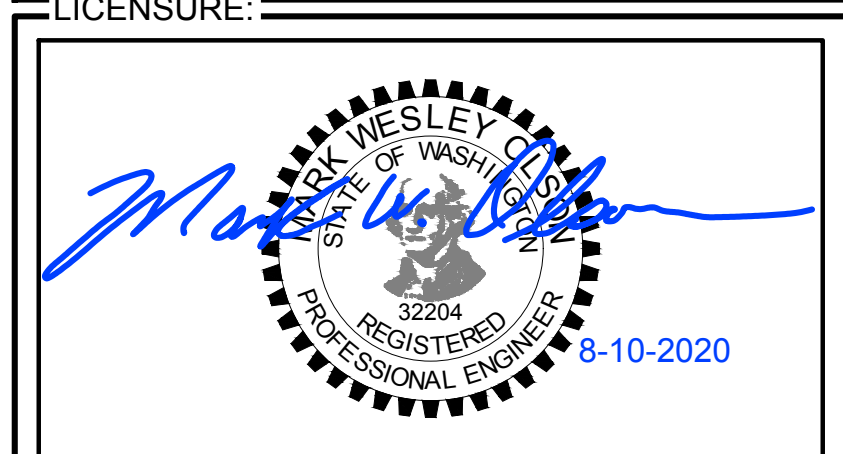
DRAWN BY: CHK.: APV.:

DMO	MWO	MWO
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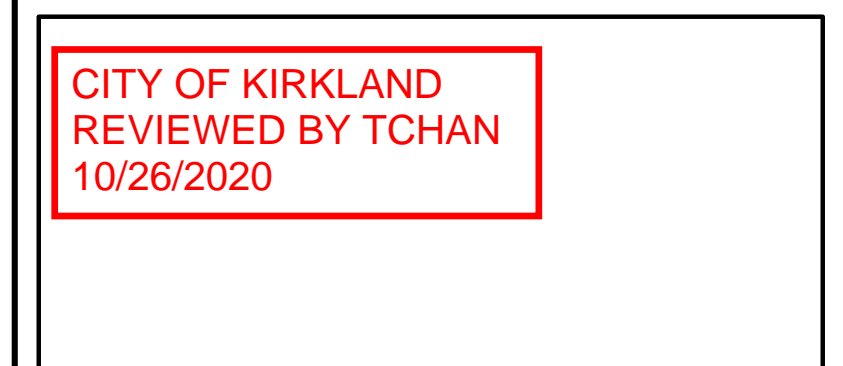
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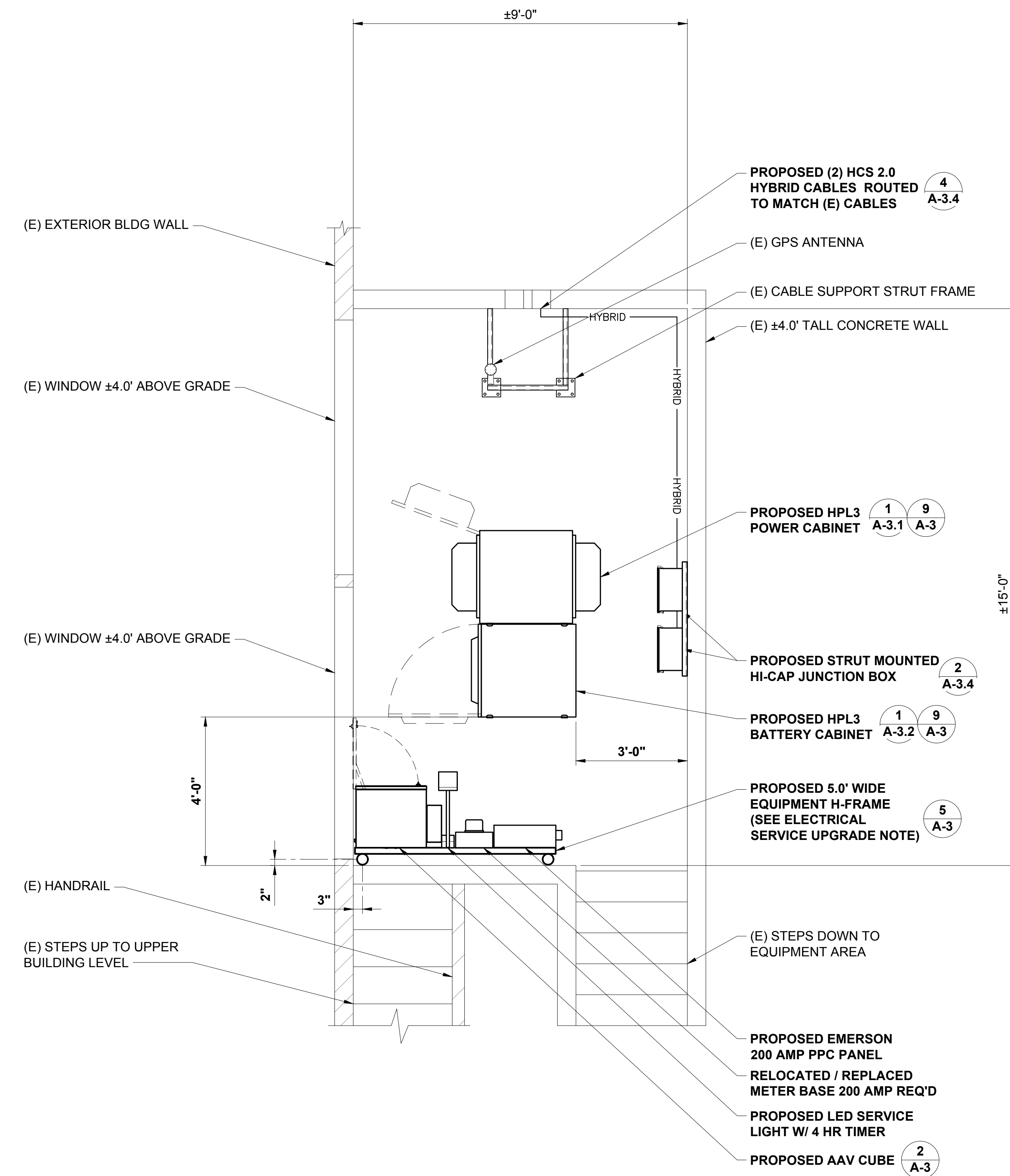
DRAWING TITLE:

EXISTING & PROPOSED EQUIPMENT PLANS

DRAWING NUMBER:

A-1.2 1

CEI JOB NUMBER: ANCHOR 20-06029



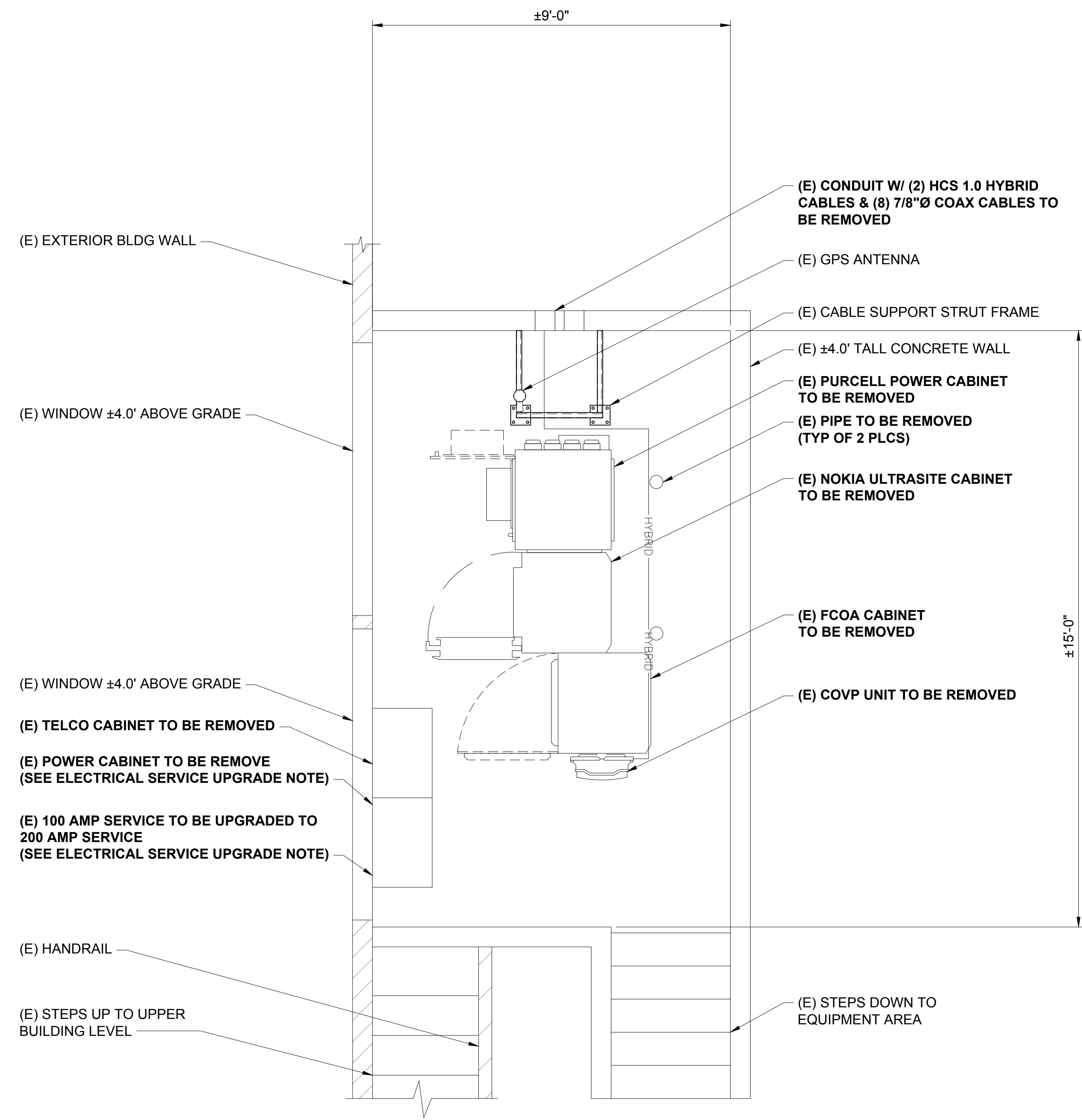
**ELECTRICAL SERVICE UPGRADE NOTE:**  
1. UPGRADE EXISTING A/C SERVICE PER SEPARATE ELECTRICAL SCOPE OF WORK AS REQUIRED UNDER SEPARATE ELECTRICAL PERMIT

**A SEPARATE ELECTRICAL PERMIT IS REQUIRED.**

**PROPOSED BASEBAND RADIO NOTE:**  
1. INSTALL ALL NEW BASEBAND RADIO UNITS, SUBMODULES & SUBRACKS AS REQ'D PER THE LATEST RFDS IN NEW HPL3 CABINET  
2. FAN REVERSAL IS REQ'D ON THE BACK OF THE RE-USED (E) FSMF MODULE U2100/G1900) & MOUNTED IN NEW HPL3 CABINET



**PROPOSED EQUIPMENT PLAN**  
22x34 SCALE: 1/2" = 1'-0" | 11x17 SCALE: 1/4" = 1'-0" | 2



**EXISTING BASEBAND RADIO NOTE:**  
1. REMOVE ALL BASEBAND RADIO UNITS, SUBMODULES & SUBRACKS FROM (E) CABINETS AS REQUIRED PER THE LATEST RFDS



**EXISTING EQUIPMENT PLAN**  
22x34 SCALE: 1/2" = 1'-0" | 11x17 SCALE: 1/4" = 1'-0" | 1

RF DATA SHEET									
SECTOR	COLOR	# OF ANTENNAS	ANTENNA VENDOR	ANTENNA MODEL	AZIMUTH (TN)	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	RAD CENTER	HCS 2.0 HYBRID CABLE LENGTH
ALPHA (S-1)	RED	1	COMMSCOPE	FFVV-65B-R3-V1	110°	0°	0°	29.8' AGL	±100'
BETA (S-2)	GREEN	1	COMMSCOPE	FFVV-65B-R3-V1	230°	0°	0°	20.0' AGL	±75'

HCS 2.0 HYBRID CABLES				
SECTOR	HYBRID CABLE	TRUNK LENGTH	JUMPER LENGTH	# OF JUMPERS
ALPHA (S-1)	(2) HCS 2.0	(1) ±100'	±30'	(3)
BETA (S-2)	(2) HCS 2.0	(1) 75'	±30'	(3)

RFDS	
SITE NUMBER	SE03314B
SITE NAME	TOTEM LOCKE
PROJECT TYPE	ANCHOR
RFDS VERSION	5.0 - 8/07/2020 - 8:59:45 AM

RADIOS @ ANTENNAS			
RADIO	# OF RADIOS	TECHNOLOGY	LOCATION
AHOLA	(2)	L700/L600/N600	NEAR ANTENNAS
AHFIG	(2)	U21/L21/L19/G9	NEAR ANTENNAS
AEHC	(1)	2.5 GHz	29.8' LEVEL
AEHC	(1)	2.5 GHz	25.5' LEVEL

MISC. EQUIPMENT			
MODULE	# OF MODULES	TECHNOLOGY	LOCATION
CSR IXRe	(1)	-	POWER CABINET
RECTIFIER	AS REQ'D	-	POWER CABINET
BREAKERS	AS REQ'D	-	POWER CABINET
PENDANT	(2)	HCS 2.0	NEAR ANTENNAS
JUNCTION BOX	(2)	HCS 2.0	GROUND EQUIP.

MODULES / RADIOS @ EQUIPMENT			
MODULE	# OF MODULES	TECHNOLOGY	LOCATION
BASEBAND	ALL	PER RFDS	HPL3 CABINET
(E) FSMF	(1)	U2100/G1900	HPL3 CABINET



PLANS PREPARED BY:



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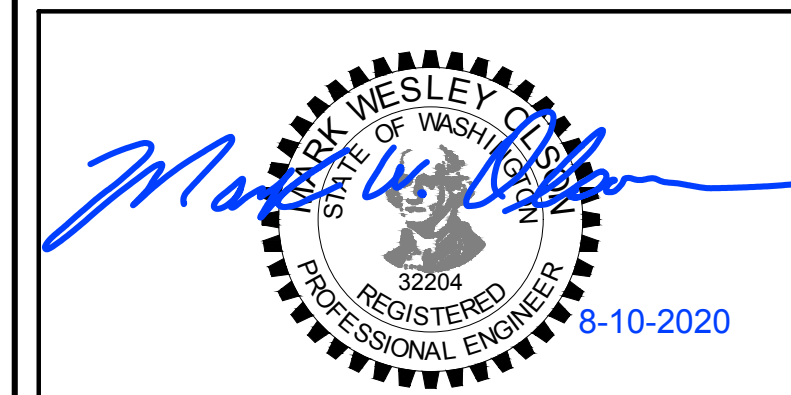
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DRAWN BY: CHK.: APV.:  
DMO MWO MWO

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JURISDICTIONAL APPROVAL:

CITY OF KIRKLAND  
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DRAWING TITLE:

ANTENNA PLANS & SCHEDULES

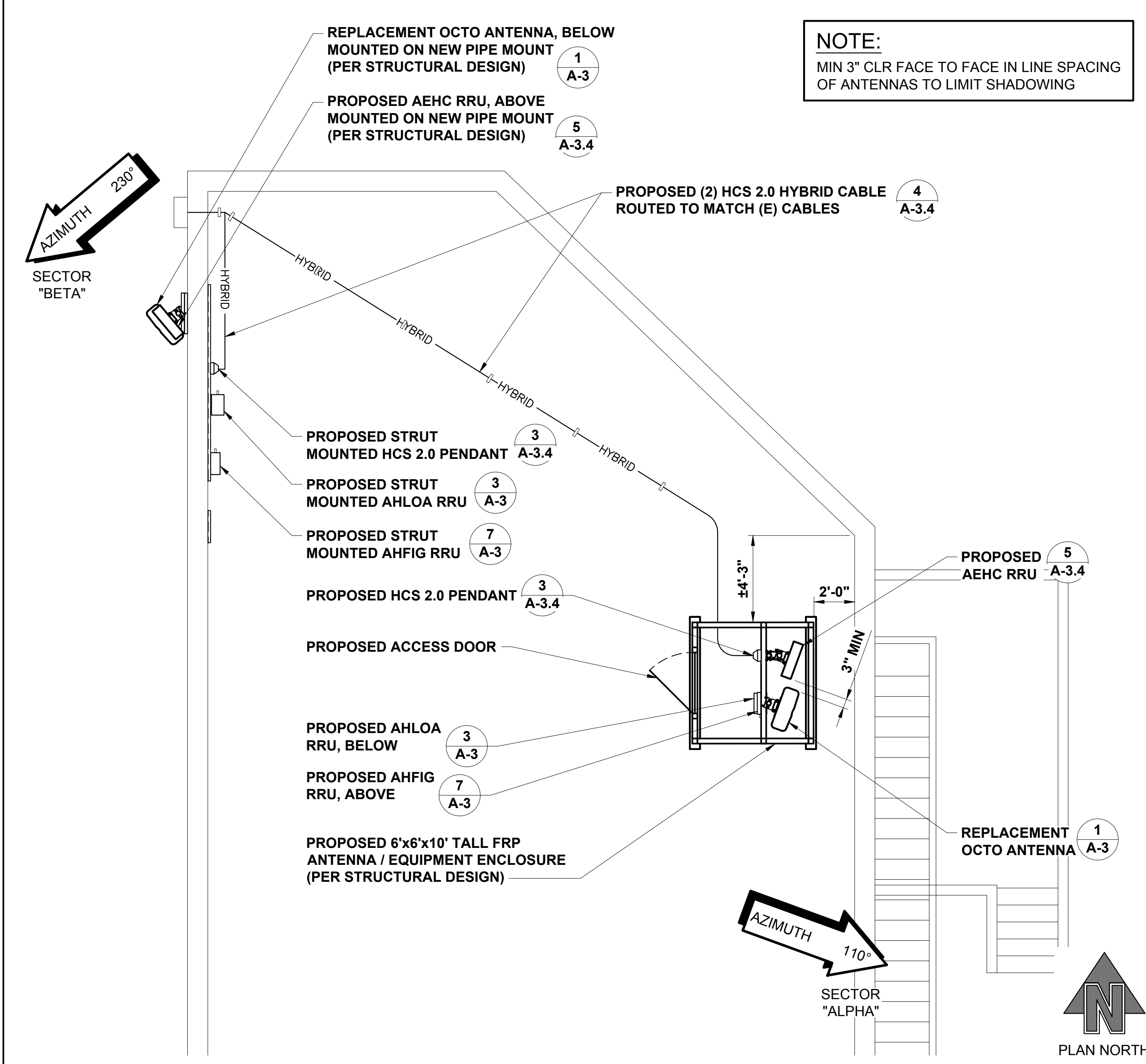
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A-1.3 1

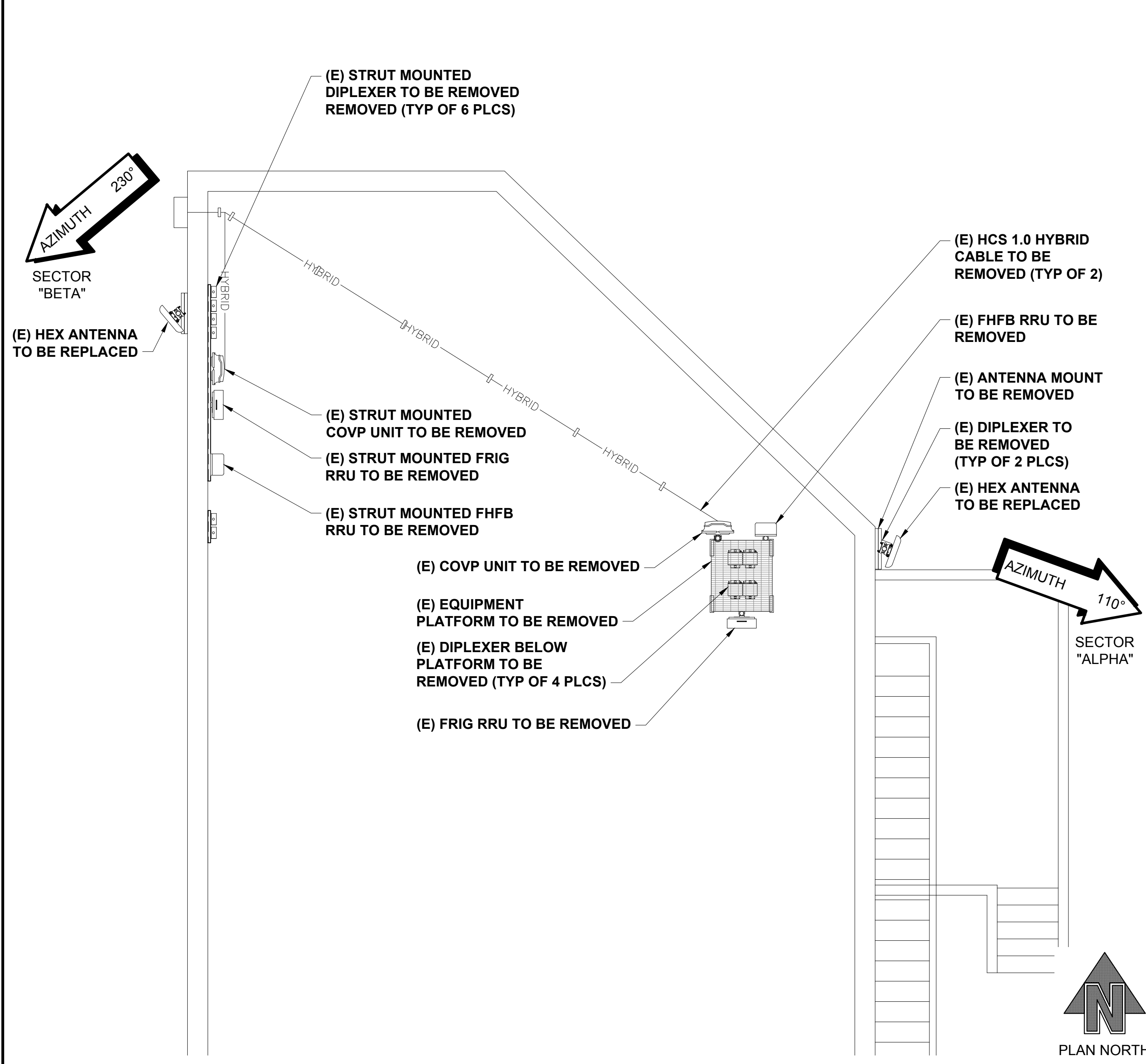
CEI JOB NUMBER: ANCHOR 20-06029

RF DATA SHEET 22x34 SCALE: NTS 11x17 SCALE: NTS 11

RADIOS & SYSTEM MODULES SCHEDULE 22x34 SCALE: NTS 11x17 SCALE: NTS 9

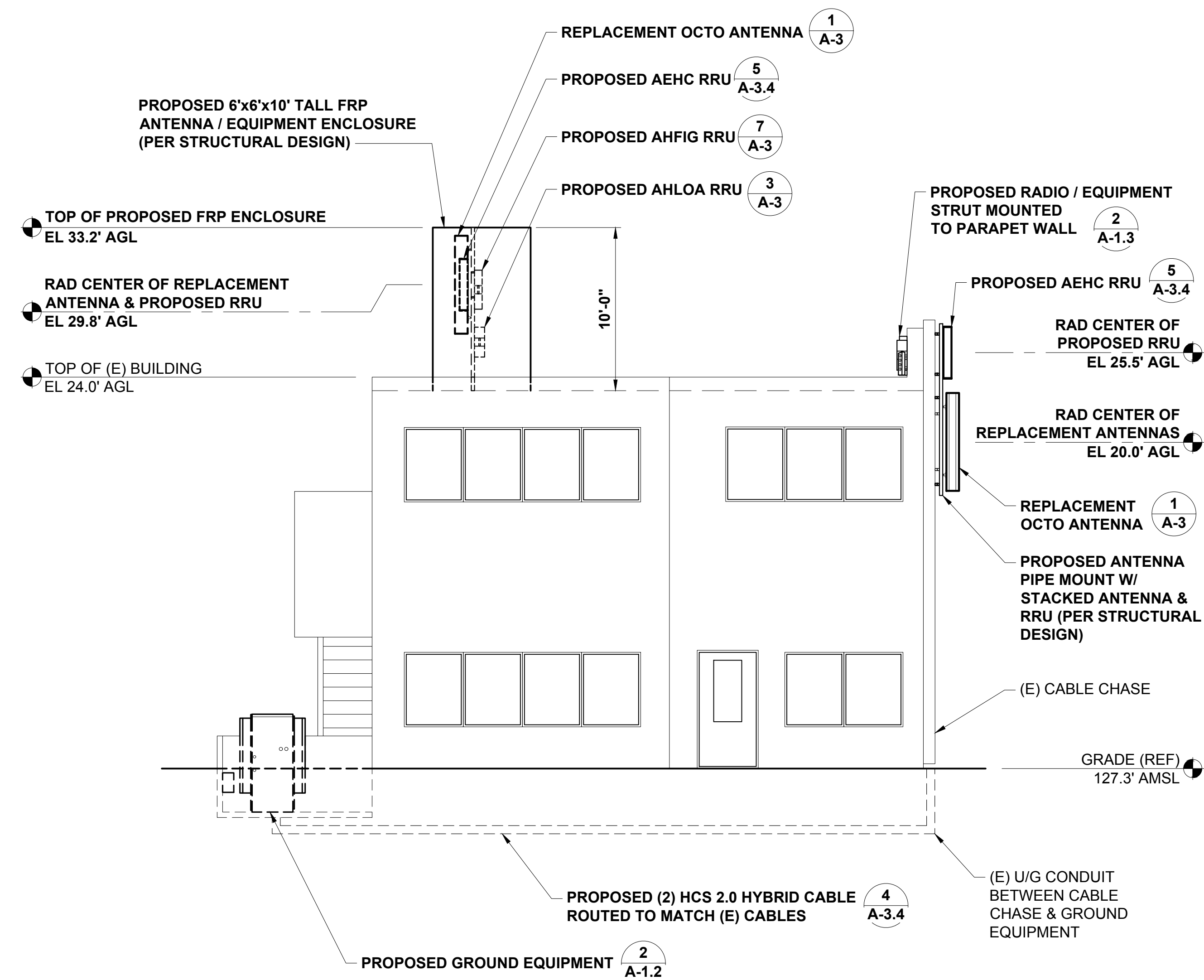


PROPOSED ANTENNA PLAN 22x34 SCALE: 1/4" = 1'-0" 11x17 SCALE: 1/8" = 1'-0" 3



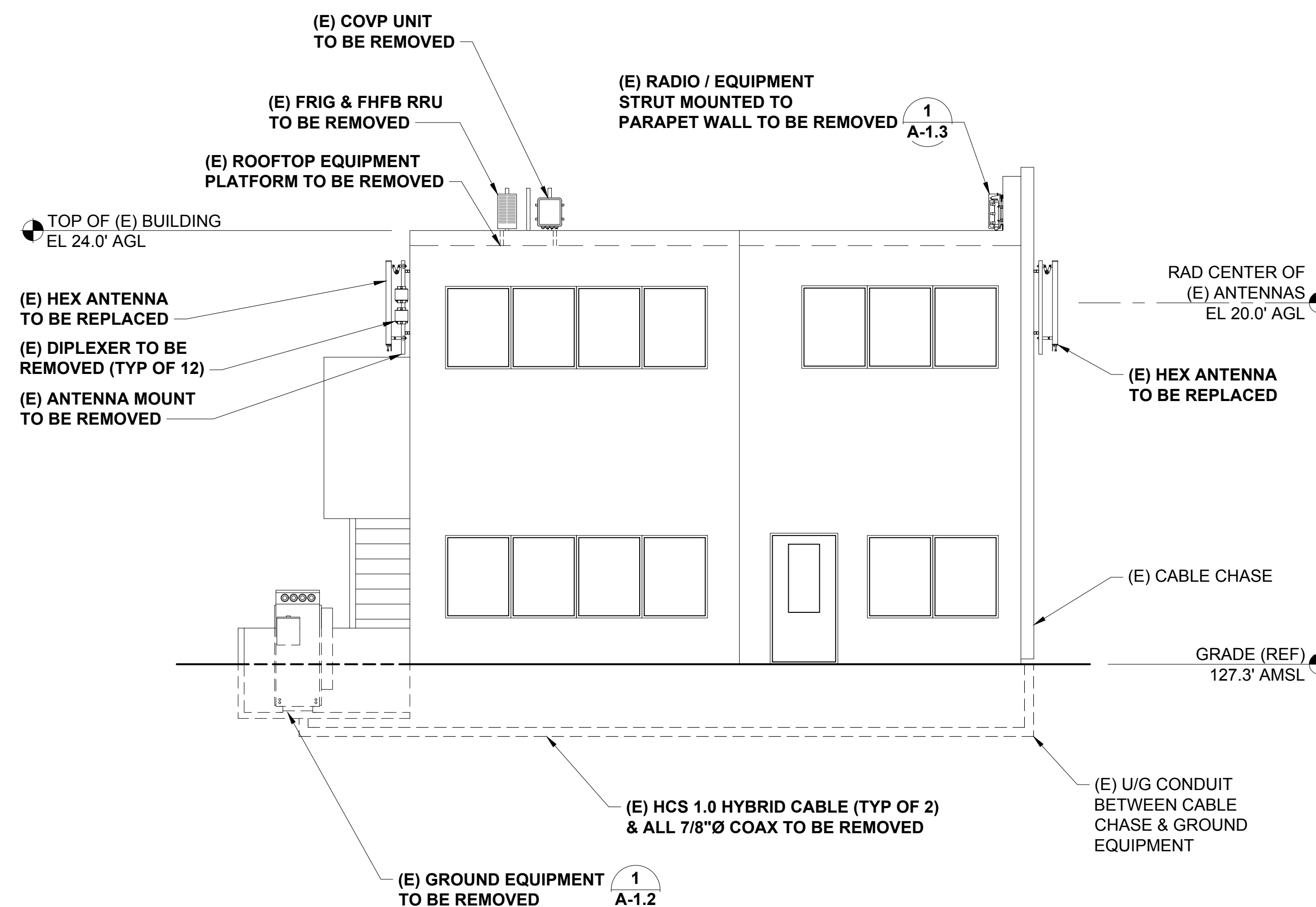
EXISTING ANTENNA PLAN 22x34 SCALE: 1/4" = 1'-0" 11x17 SCALE: 1/8" = 1'-0" 1

**NOTE:**  
 1. ALL PROPOSED ANTENNAS/EQUIPMENT & ATTACHMENTS SHALL BE PAINTED TO MATCH EXISTING ON-SITE CONDITIONS.



**PROPOSED NORTH ELEVATION**

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



**EXISTING NORTH ELEVATION**

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



PLANS PREPARED BY:



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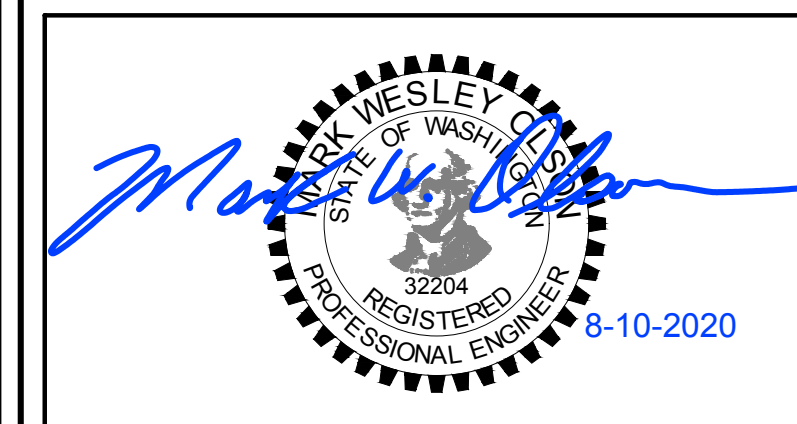
DRAWN BY: CHK.: APV.:

DMO MWO MWO

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DRAWING TITLE:

EXISTING & PROPOSED  
 NORTH ELEVATION

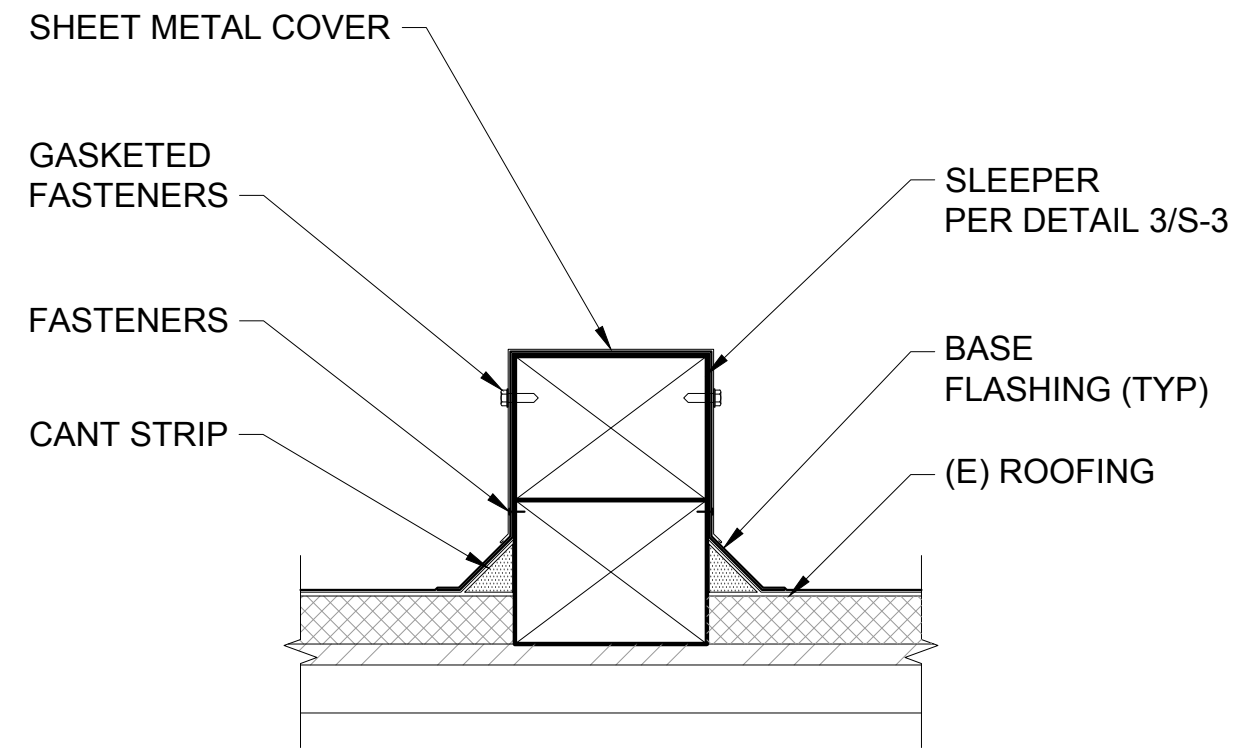
DRAWING NUMBER:

A-2

1

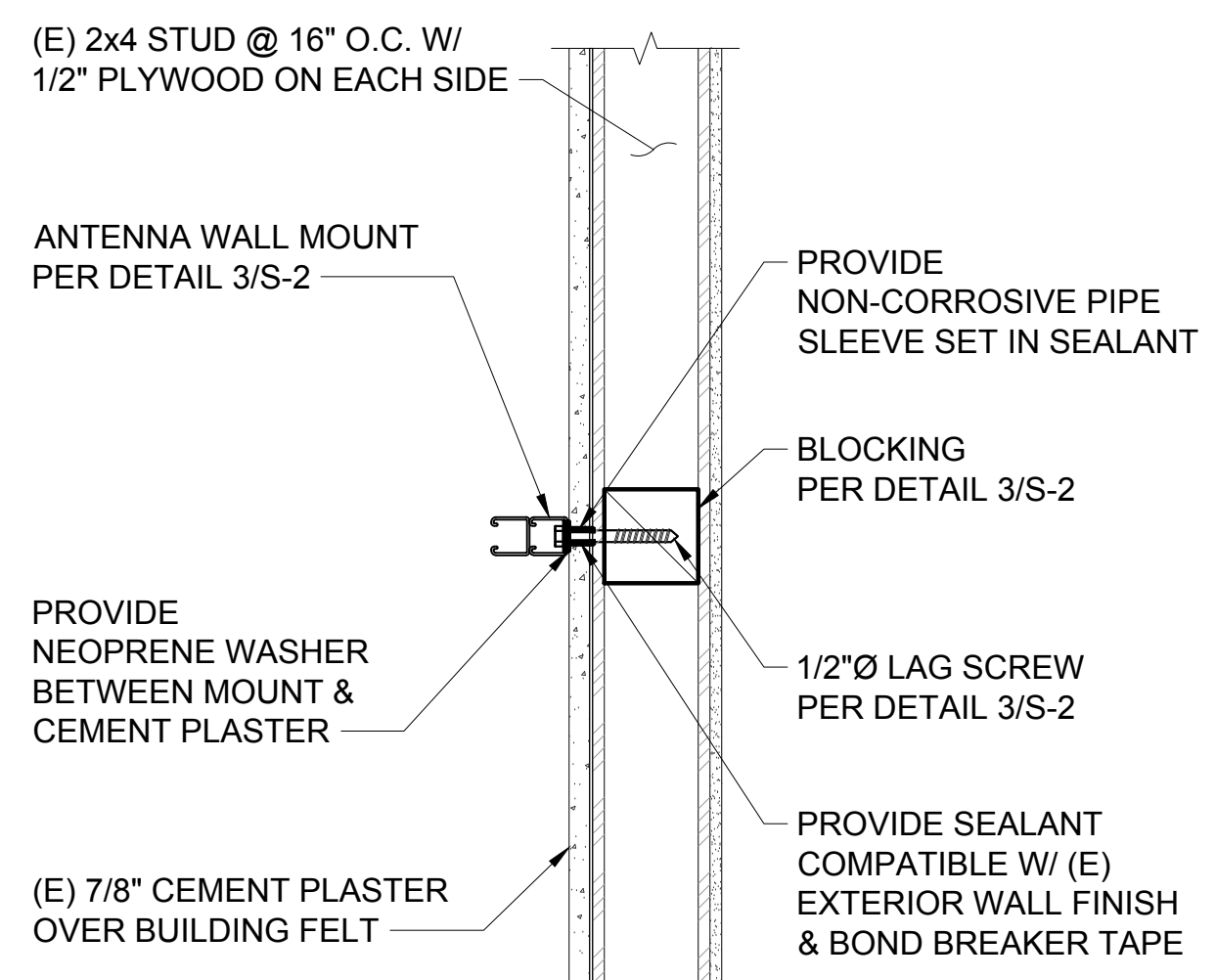
CEI JOB NUMBER: ANCHOR 20-06029

**NOTE:**  
CONTRACTOR TO PROVIDE  
WATERTIGHT SEAL AT SLEEPER  
BY WARRANTED ROOFER



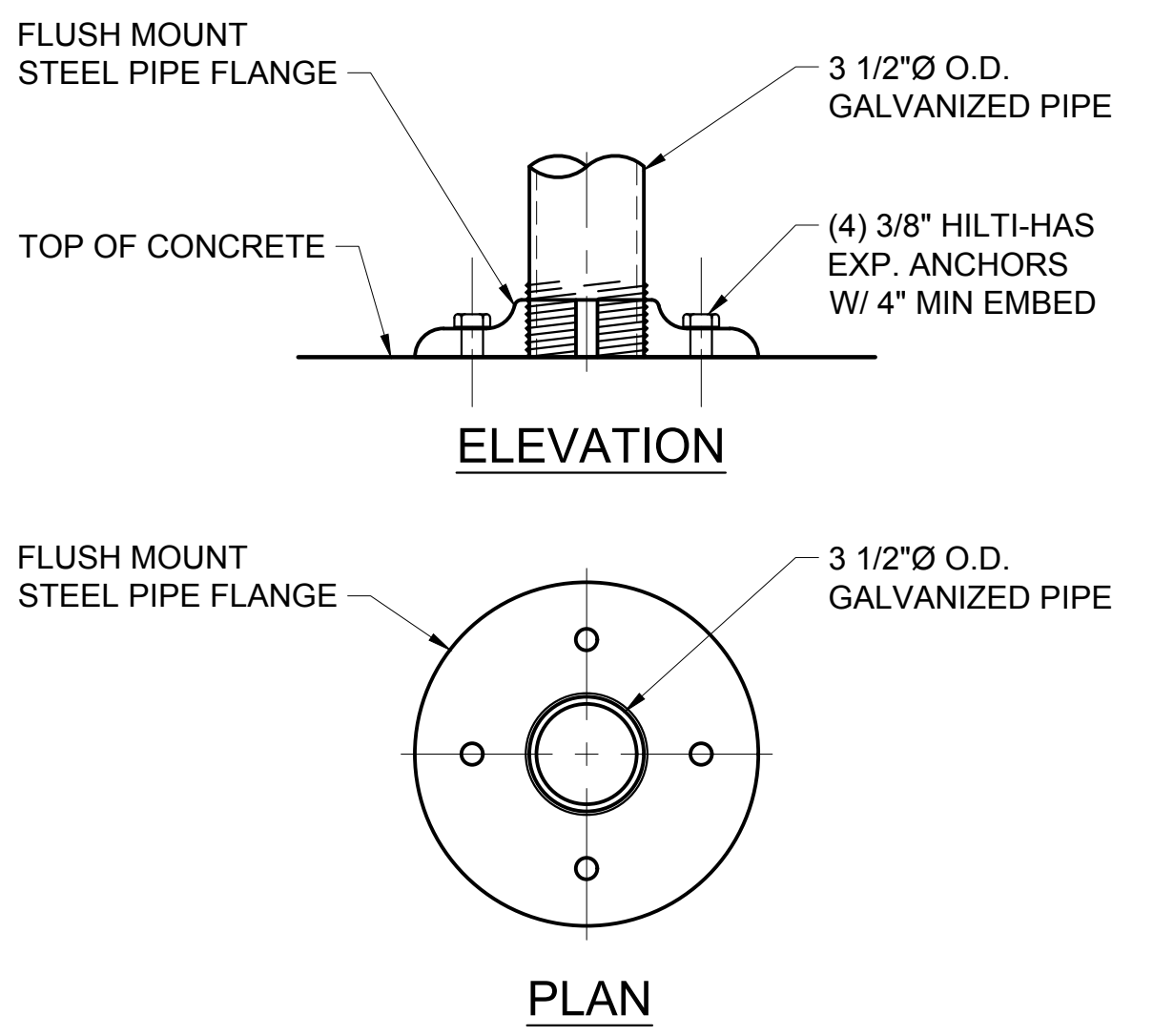
**SLEEPER FLASHING DETAIL (TYP)**

22x34 SCALE: 1 1/2" = 1'-0" 11x17 SCALE: 3/4" = 1'-0"



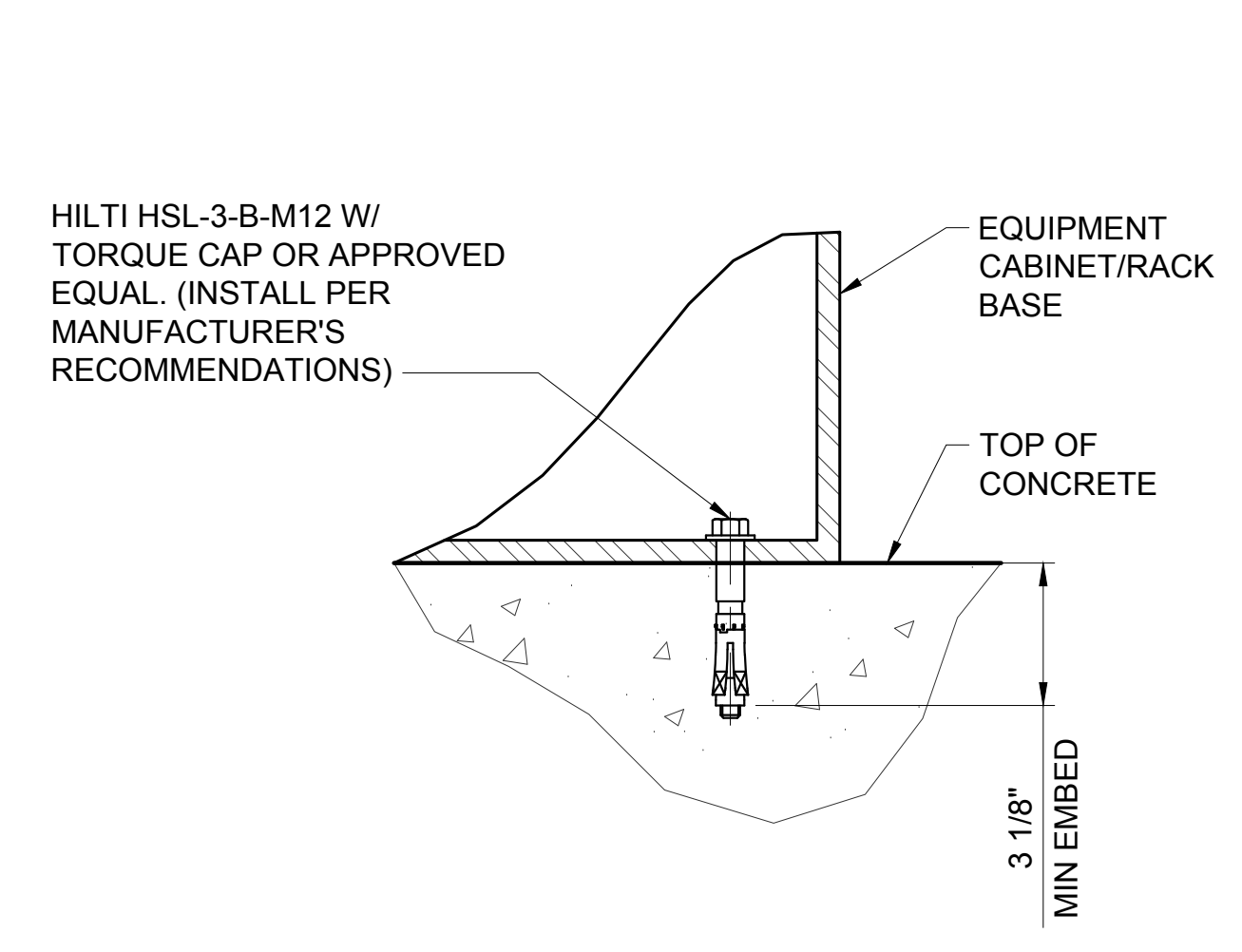
**WALL PENETRATION DETAIL (TYP)**

22x34 SCALE: 1 1/2" = 1'-0" 11x17 SCALE: 3/4" = 1'-0"



**H-FRAME ANCHORAGE**

22x34 SCALE: 3" = 1'-0" 11x17 SCALE: 1 1/2" = 1'-0"



**CABINET ANCHORAGE**

22x34 SCALE: 3" = 1'-0" 11x17 SCALE: 1 1/2" = 1'-0"

**T-Mobile**

PLANS PREPARED BY:  
**CORNERSTONE ENGINEERING, INC.**  
16928 WOODINVILLE-REDMOND RD NE, SUITE 210  
WOODINVILLE, WA 98072  
PHONE: 425.487.1732  
WWW.CORNERSTONE-ENGR.COM

PROJECT INFO:  
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DRAWN BY: **DMO** CHK.: **MWO** APV.: **MWO**

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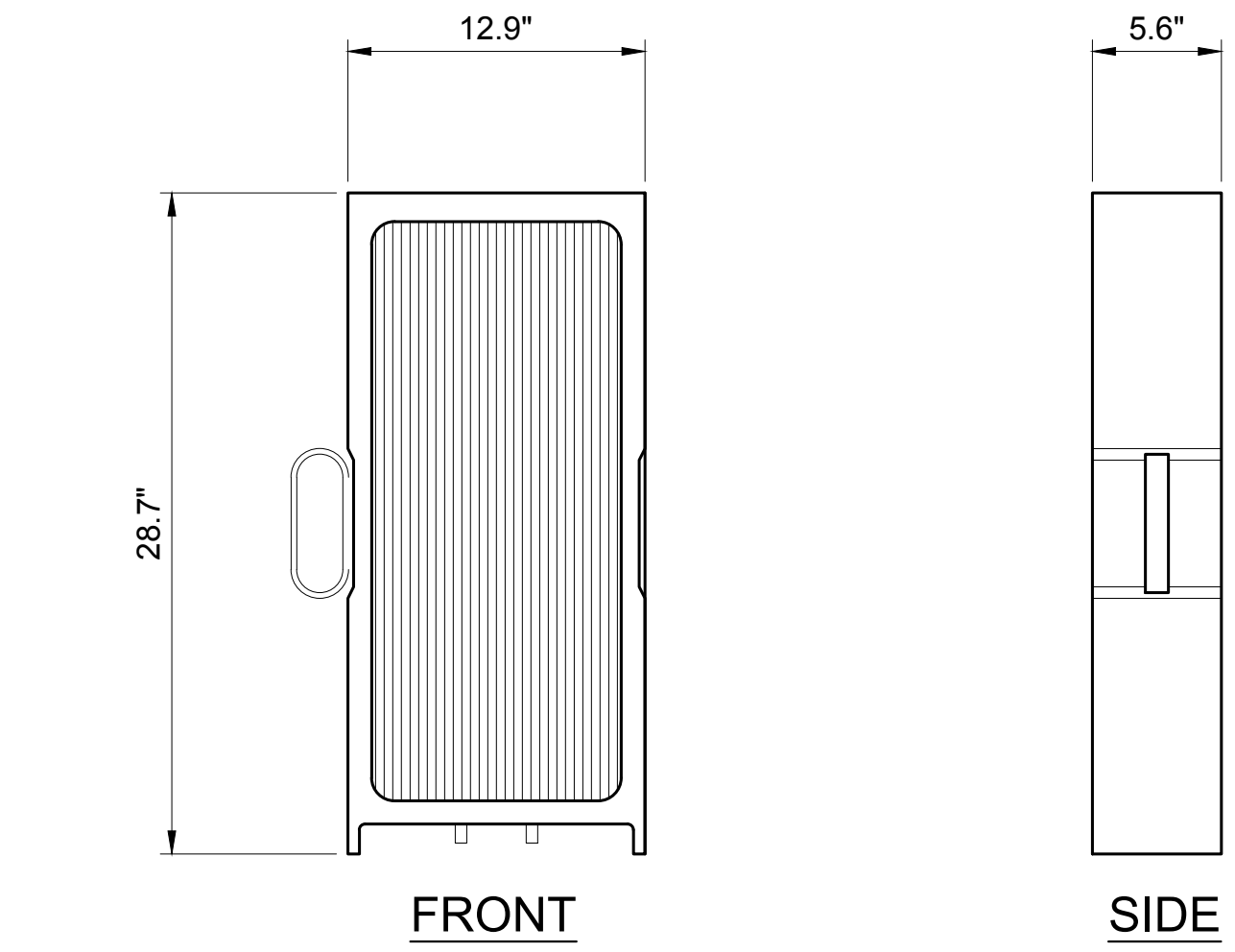
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JURISDICTIONAL APPROVAL:  
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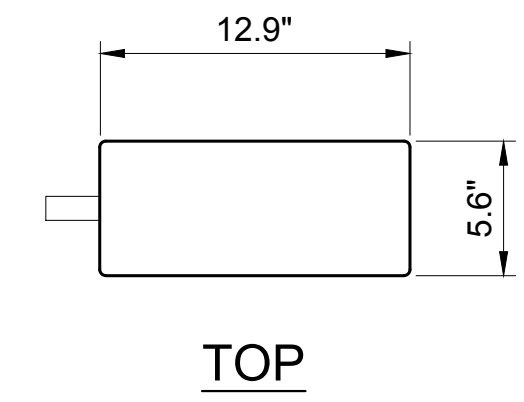
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DRAWING TITLE: **DETAIL SHEET**

DRAWING NUMBER:  
**A-3** | **1**  
CEI JOB NUMBER: **ANCHOR 20-06029**

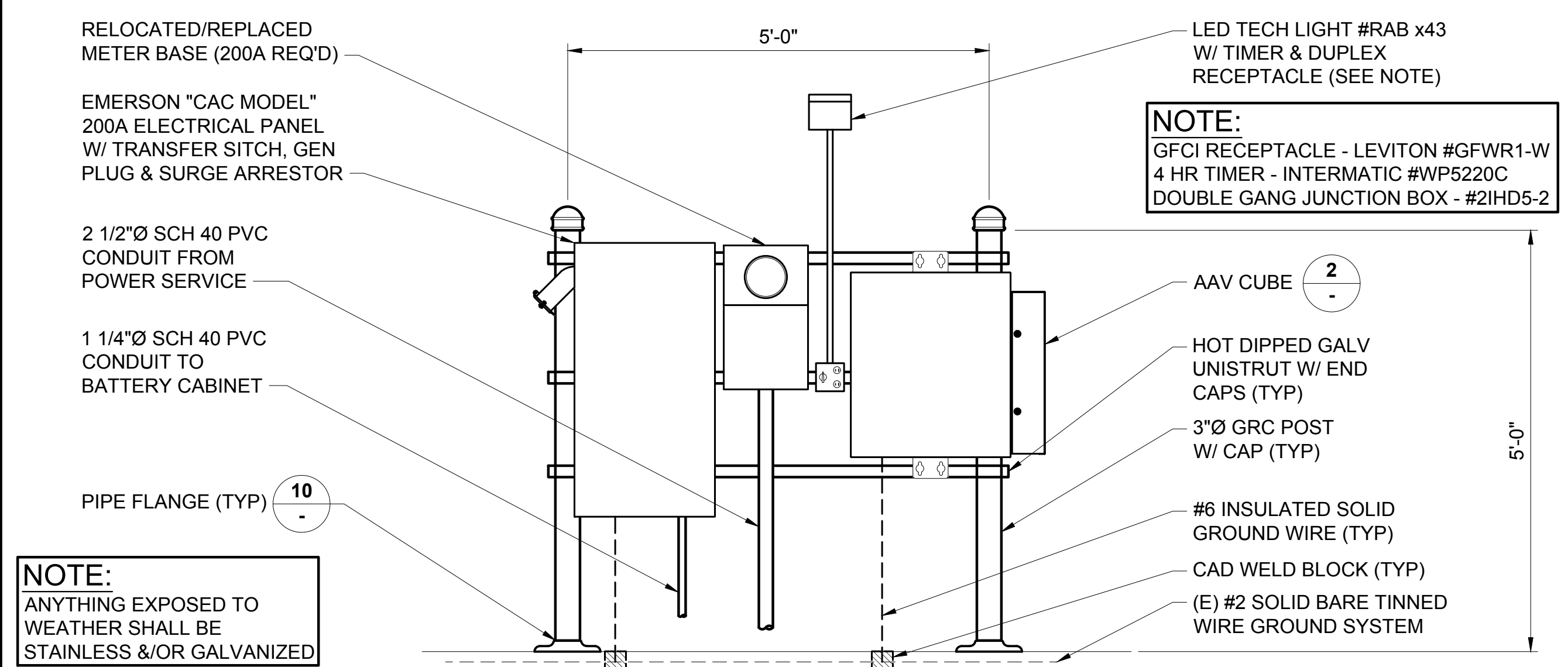


AHFIG RRU	
MANUFACTURER	NOKIA
MODEL	AHFIG 4T4R DUAL BAND RRH
HEIGHT	28.7" (W/ MOUNTING BRACKETS)
WIDTH	12.9"
DEPTH	15.6"
WEIGHT	70.5 lbs



**AHFIG RRU**

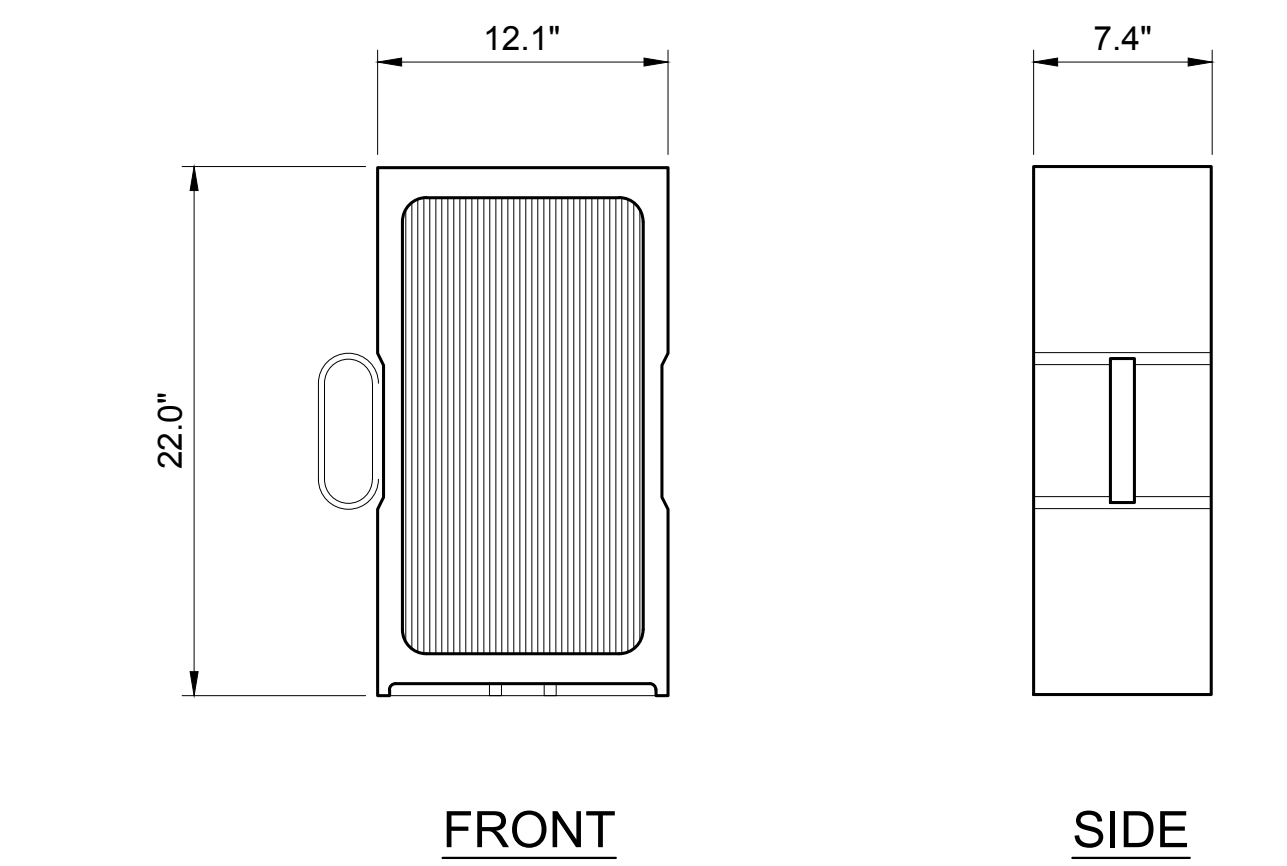
22x34 SCALE: 1 1/2" = 1'-0" 11x17 SCALE: 3/4" = 1'-0"



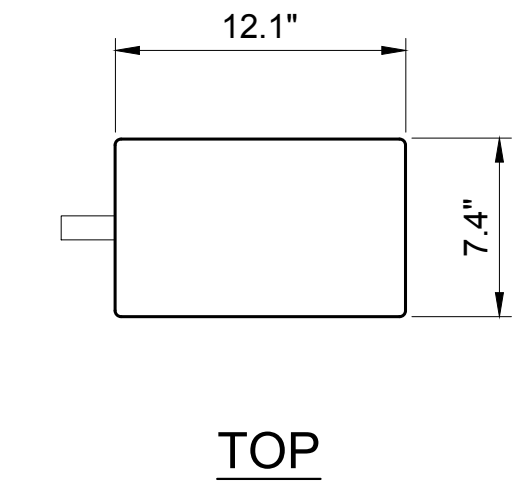
**NOTE:**  
ANYTHING EXPOSED TO WEATHER SHALL BE STAINLESS &/OR GALVANIZED

**H-FRAME**

22x34 SCALE: 3/4" = 1'-0" 11x17 SCALE: 3/8" = 1'-0"

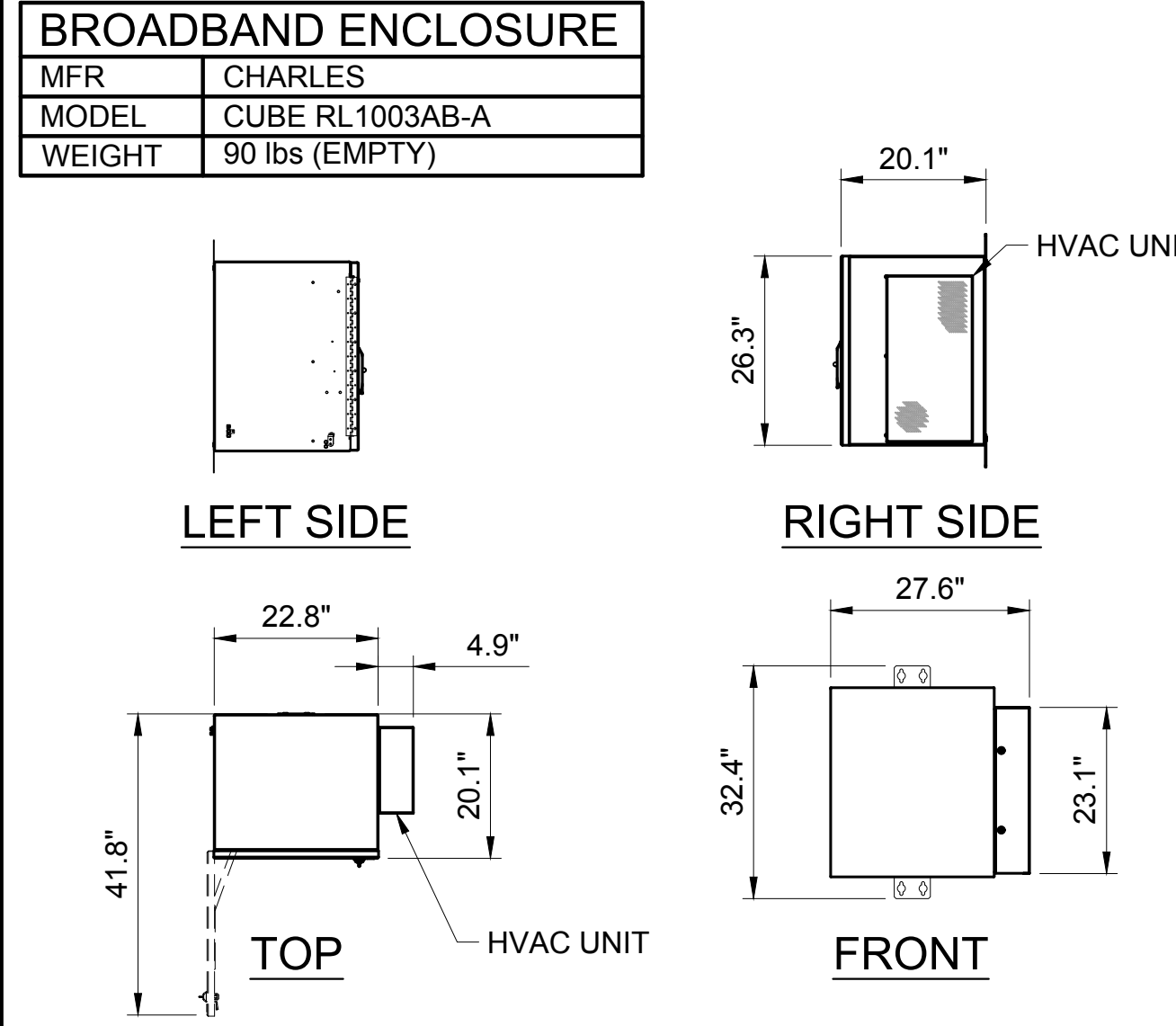


AHLOA RRU	
MANUFACTURER	NOKIA
MODEL	AHLOA 4T4R RRH
HEIGHT	22.0" (NO BRACKETS)
WIDTH	7.4"
DEPTH	12.1"
WEIGHT	83.8 lbs



**AHLOA RRU**

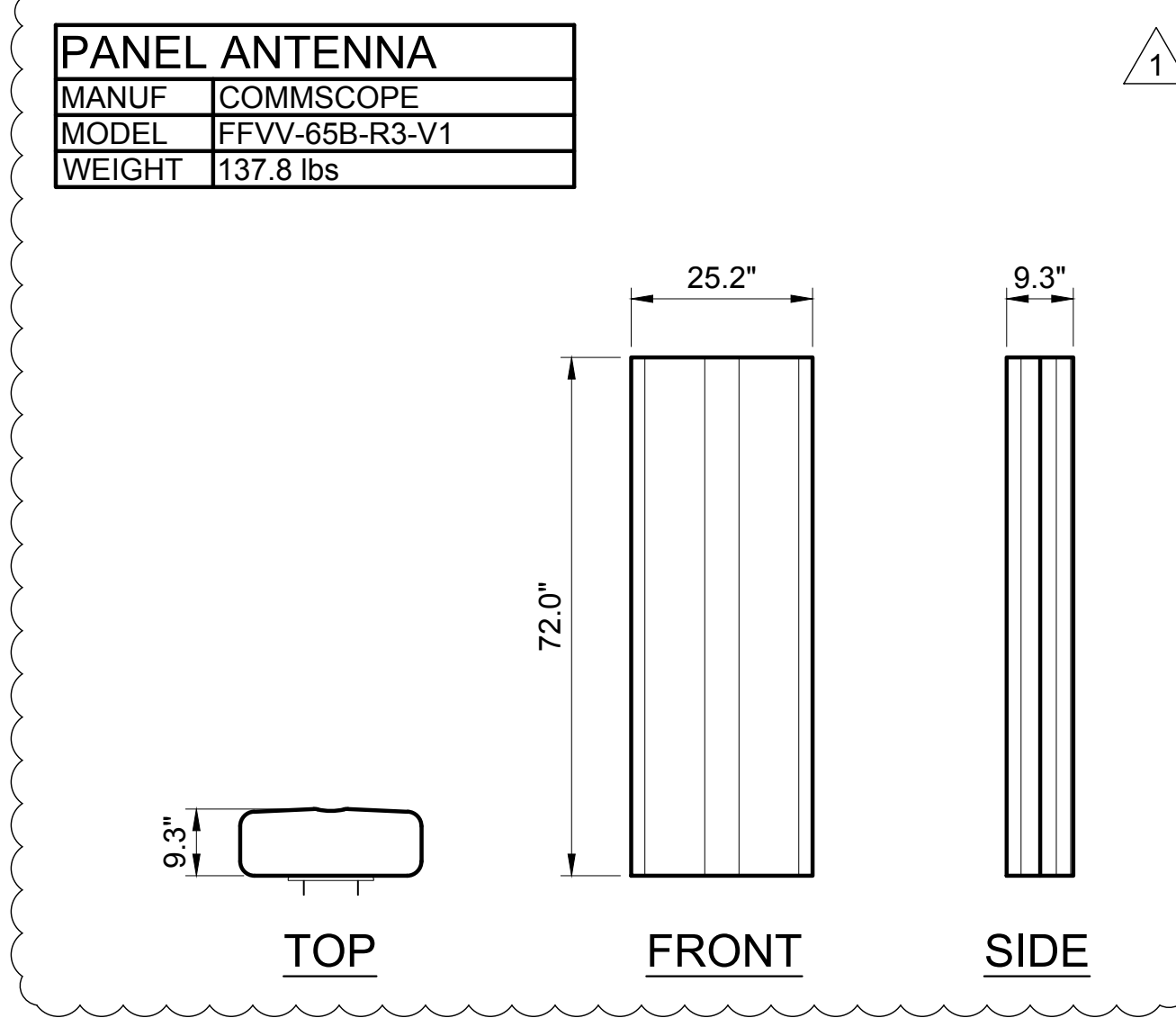
22x34 SCALE: 1 1/2" = 1'-0" 11x17 SCALE: 3/4" = 1'-0"



BROADBAND ENCLOSURE	
MFR	CHARLES
MODEL	CUBE RL1003AB-A
WEIGHT	90 lbs (EMPTY)

**AAV CUBE**

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



PANEL ANTENNA	
MANUF	COMMSCOPE
MODEL	FFV-65B-R3-V1
WEIGHT	137.8 lbs

**OCTOPORT PANEL ANTENNA**

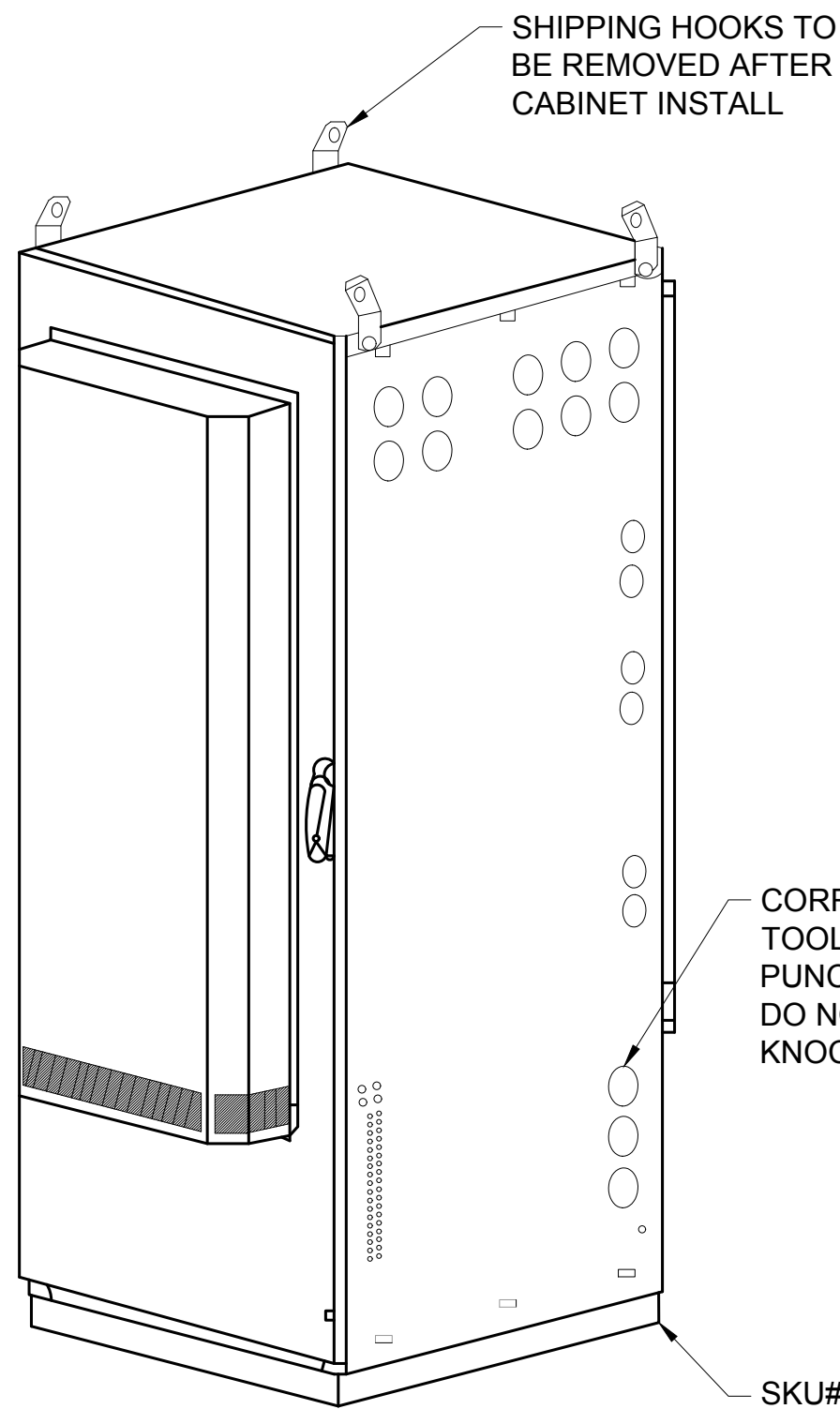
22x34 SCALE: 1/2" = 1'-0" 11x17 SCALE: 1/4" = 1'-0"



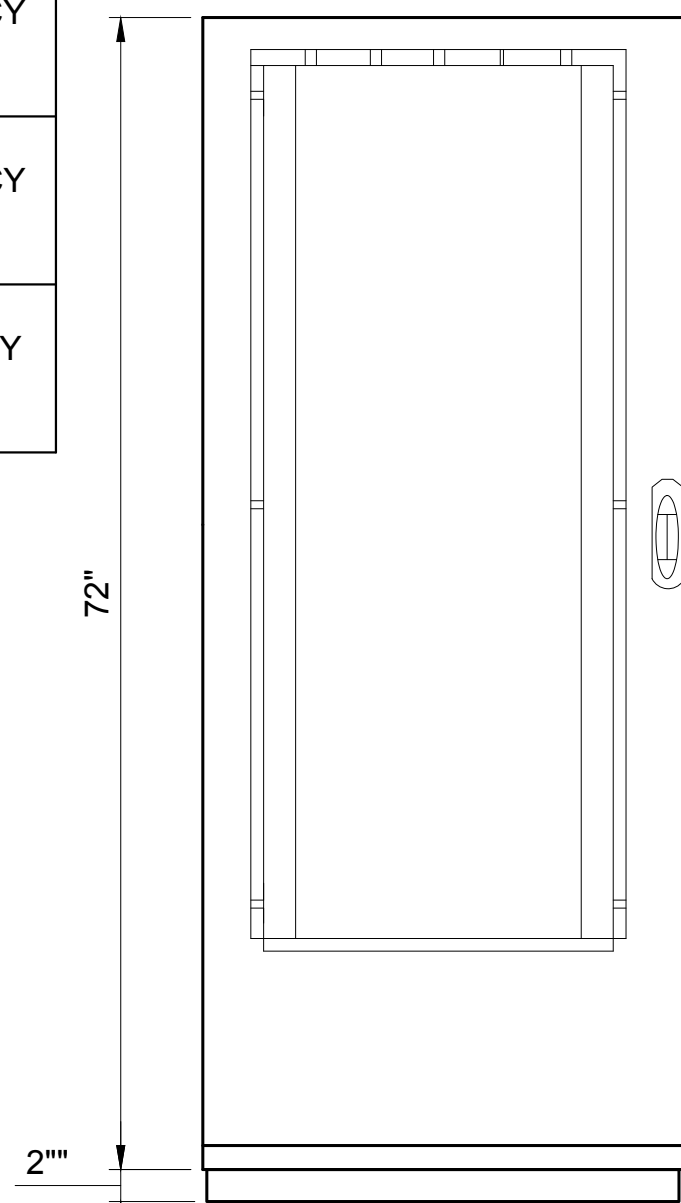
MANUFACTURE:	PURCELL SYSTEM INC
MODEL:	HPL3 600A DC CABINET
WEIGHT:	430lbs (W/O EQUIPMENT)
DIMENSIONS:	30.0"x48.0"x72.0"

NOTE:  
 • ADDITIONAL KNOCKOUTS MAY BE REQUIRED AND CAN BE DRILLED ON SITE AS NECESSARY. FOR CABINETS STARTING AT 501 THERE WILL BE A TOTAL OF (8) KNOCKOUTS (2) HORIZONTAL ROWS OF (4)

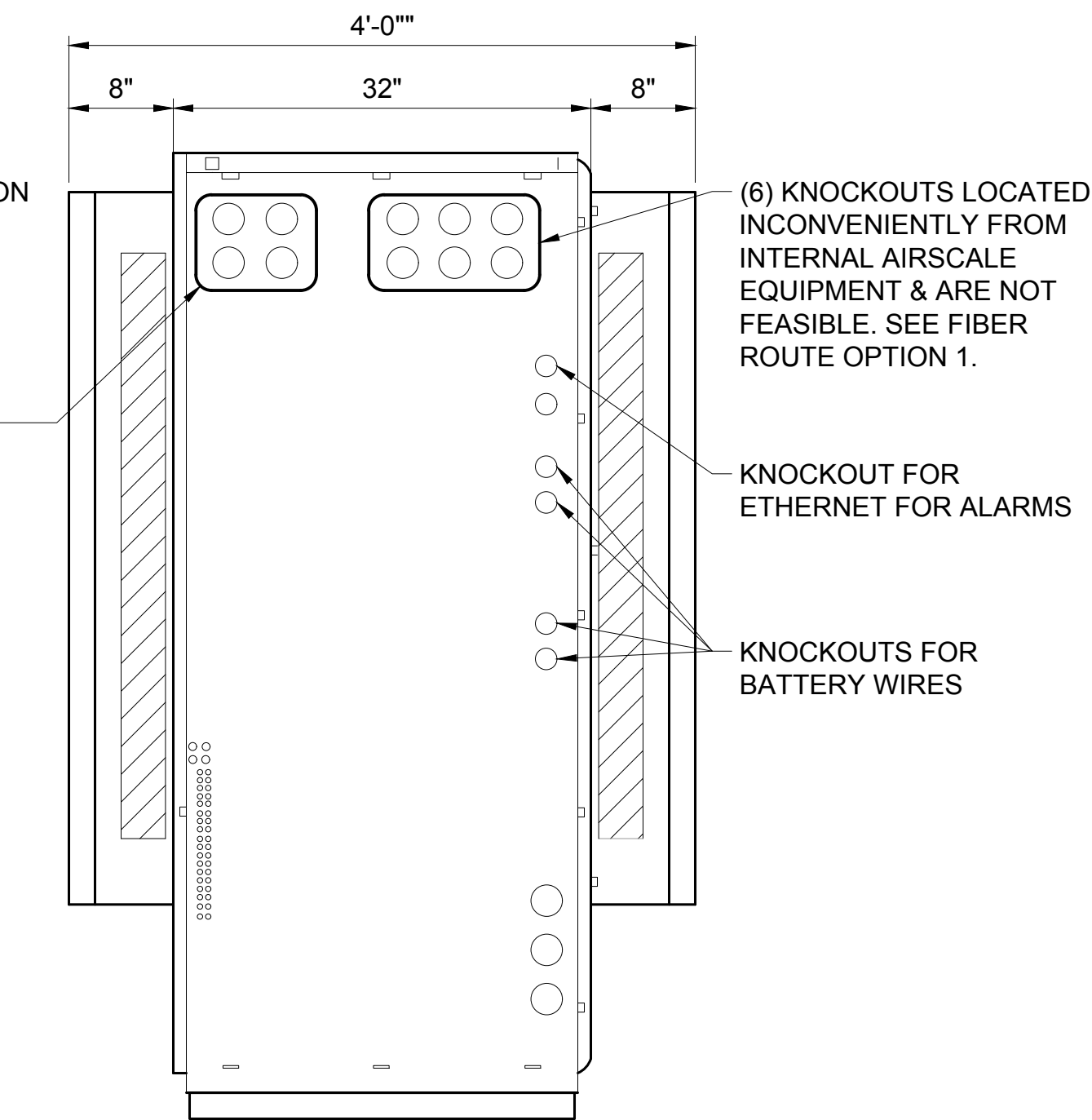
RACK ASSIGNMENT		
RACK	RU SLOT	DESCRIPTION
TOP	15	3RD AIRSCALE
	14	
	13	
	12	FIBER MUX
	11	
	10	2ND AIRSCALE
	9	
	8	FIBER MUX
	7	
	6	1ST AIRSCALE
5		
4	FIBER MUX	
3		
2	RECTIFIER SHELF	
1		
BOTTOM	16	AAV
	15	CSR
	14	4TH AIRSCALE
	13	
	12	FIBER MUX
	11	
	10	3RD LEGACY BBU
	9	
8	2ND LEGACY BBU	
7		
6	1ST LEGACY BBU	
5		
4		
3		
2		
1		



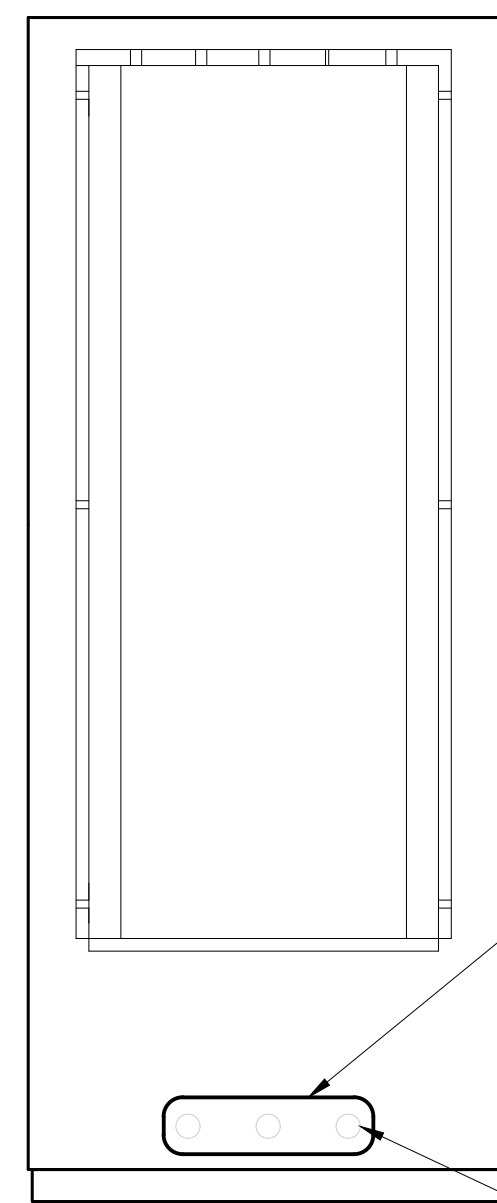
ISO VIEW



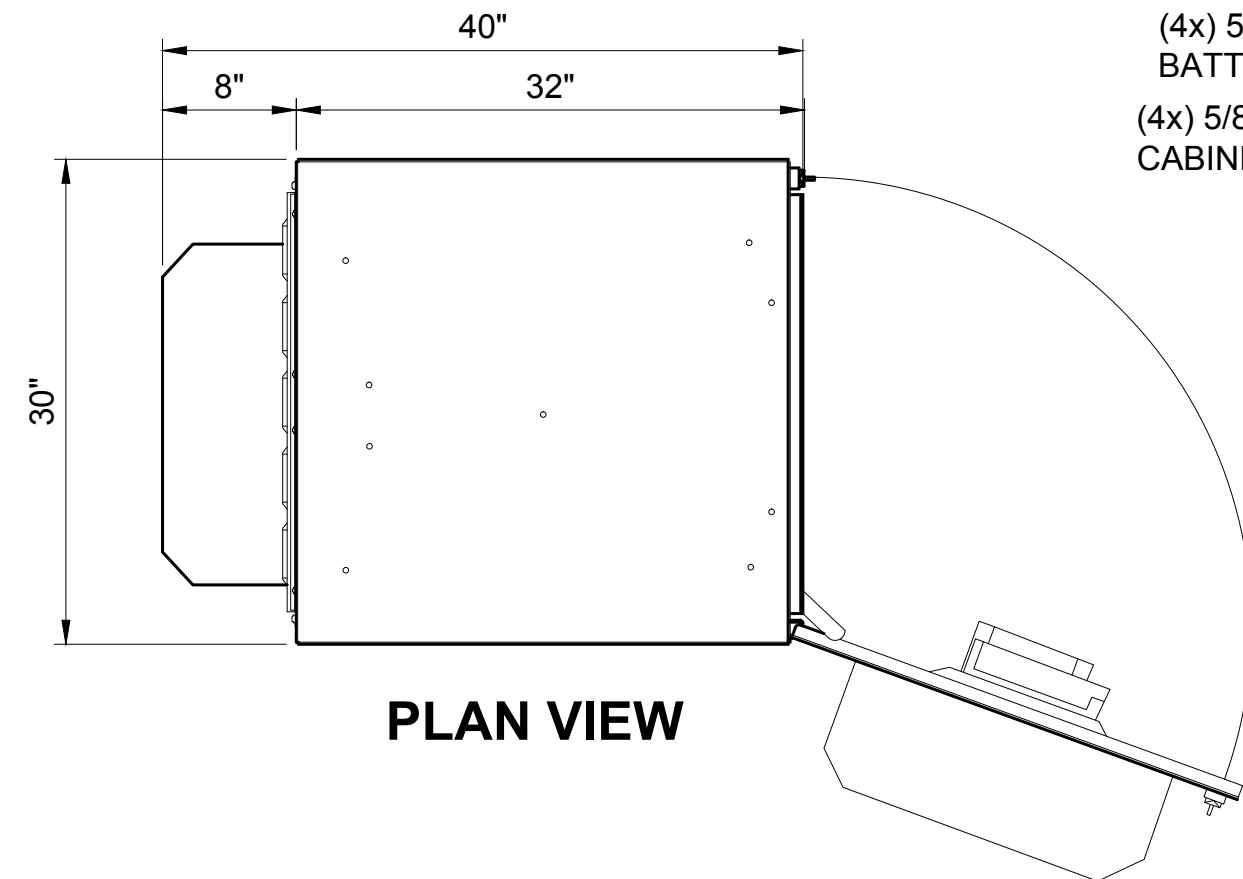
FRONT VIEW



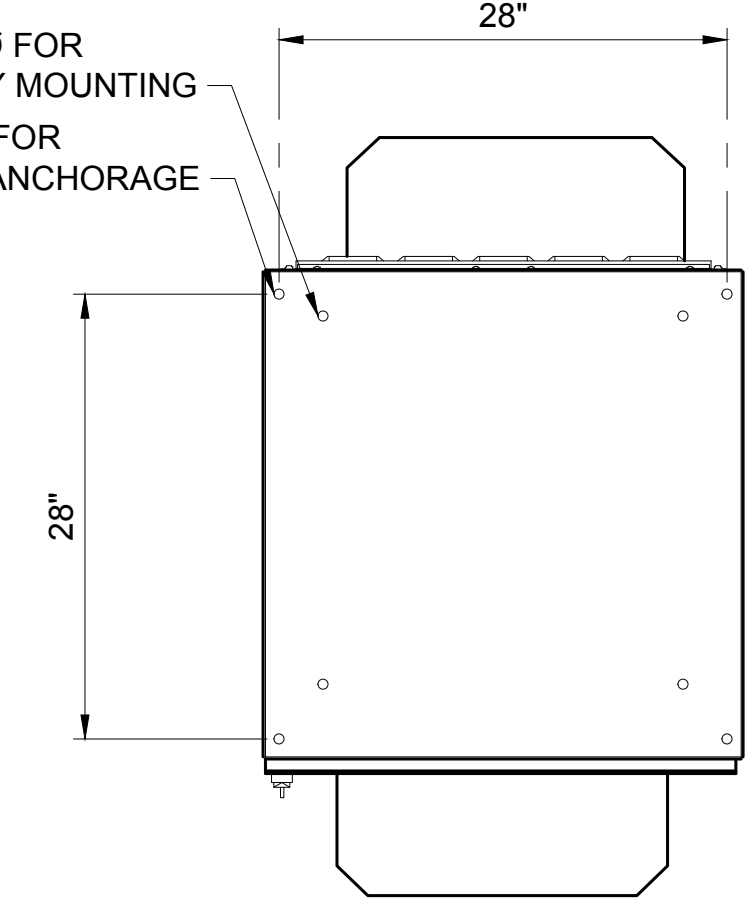
RIGHT VIEW



BACK VIEW



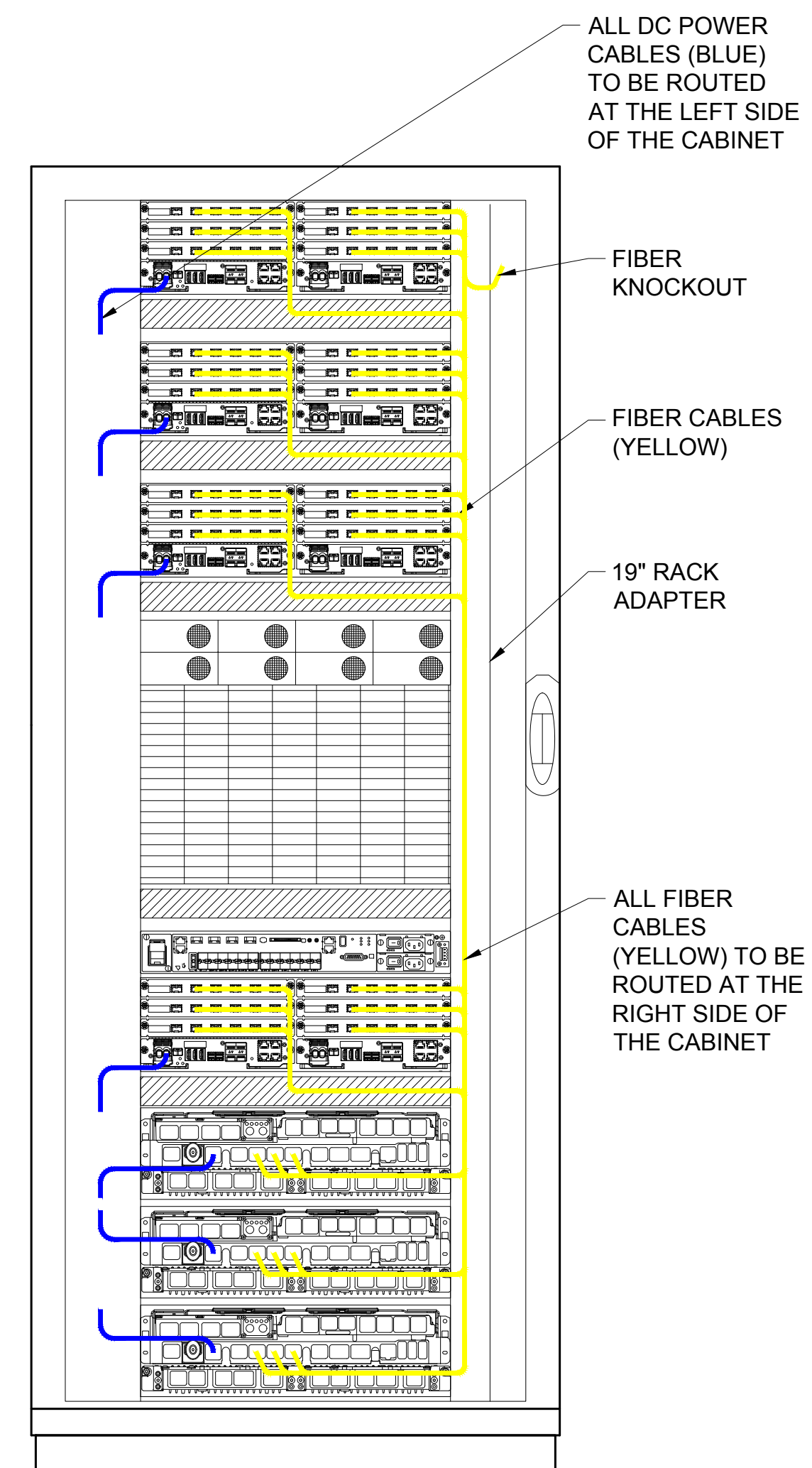
PLAN VIEW



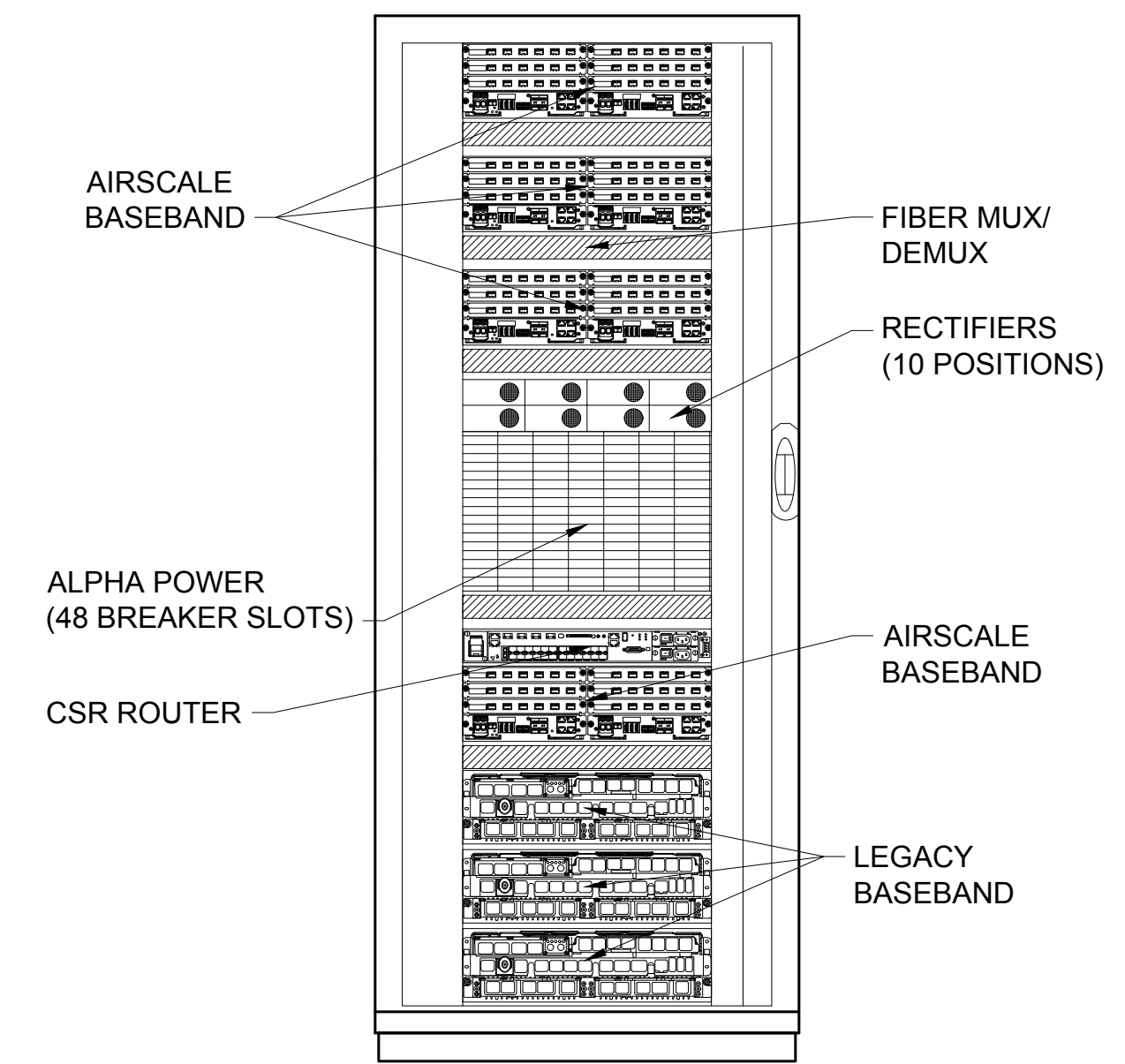
MOUNTING FOOTPRINT

SKU# 34038 PURCELL 2" PLINTH PLAN VIEW

SKU# 34038 PURCELL 2" PLINTH SIDE VIEW



INTERNAL ROUTING



FRONT VIEW (OPEN)

SKU#33965 - PURCELL HPL3 600A DC POWER CABINET DETAIL

22x34 SCALE: NTS | 11x17 SCALE: NTS

T-Mobile®

PLANS PREPARED BY:



16928 WOODINVILLE-REDMOND RD NE, SUITE 210  
 WOODINVILLE, WA 98072  
 PHONE: 425.487.1732  
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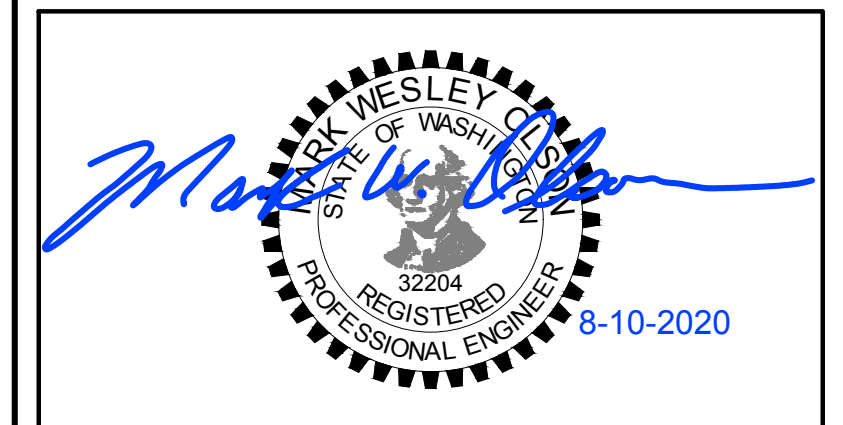
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 10/26/2020

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DRAWING TITLE:

DETAIL SHEET

DRAWING NUMBER:

A-3.1 | 1

CEI JOB NUMBER: ANCHOR 20-06029

MANUFACTURE:	PURCELL SYSTEM INC
MODEL:	HPL3 LARGE BATTERY CABINET
WEIGHT:	350lbs (W/O EQUIPMENT)
DIMENSIONS:	30.0"x31.6"x60.4"

**NOTE:**  
 • WIRES RUN THROUGH PROVIDED KNOCKOUT.  
 FOLLOW PROPER INSTALLATION OF GASKET  
 BEFORE MATING THE 2 CABINETS

**T-Mobile®**

PLANS PREPARED BY:  
  
 16928 WOODINVILLE-REDMOND RD NE, SUITE 210  
 WOODINVILLE, WA 98072  
 PHONE: 425.487.1732  
 WWW.CORNERSTONE-ENGR.COM


PROJECT INFO:  
 SE03314B  
 TOTEM LOCKE  
 12504 116TH AVENUE NE  
 KIRKLAND, WA 98034  
 KING COUNTY


ISSUED FOR:  
**CONSTRUCTION**

REV:	DATE:	ISSUED FOR:	BY:
1	08-10-20	REVISED RFDS	JRF
0	08-05-20	FINAL	DMO
A	06-15-20	PRELIMINARY	DMO

DRAWN BY: DMO    CHK.: MWO    APV.: MWO

CURRENT ISSUE DATE:  
 08-10-20

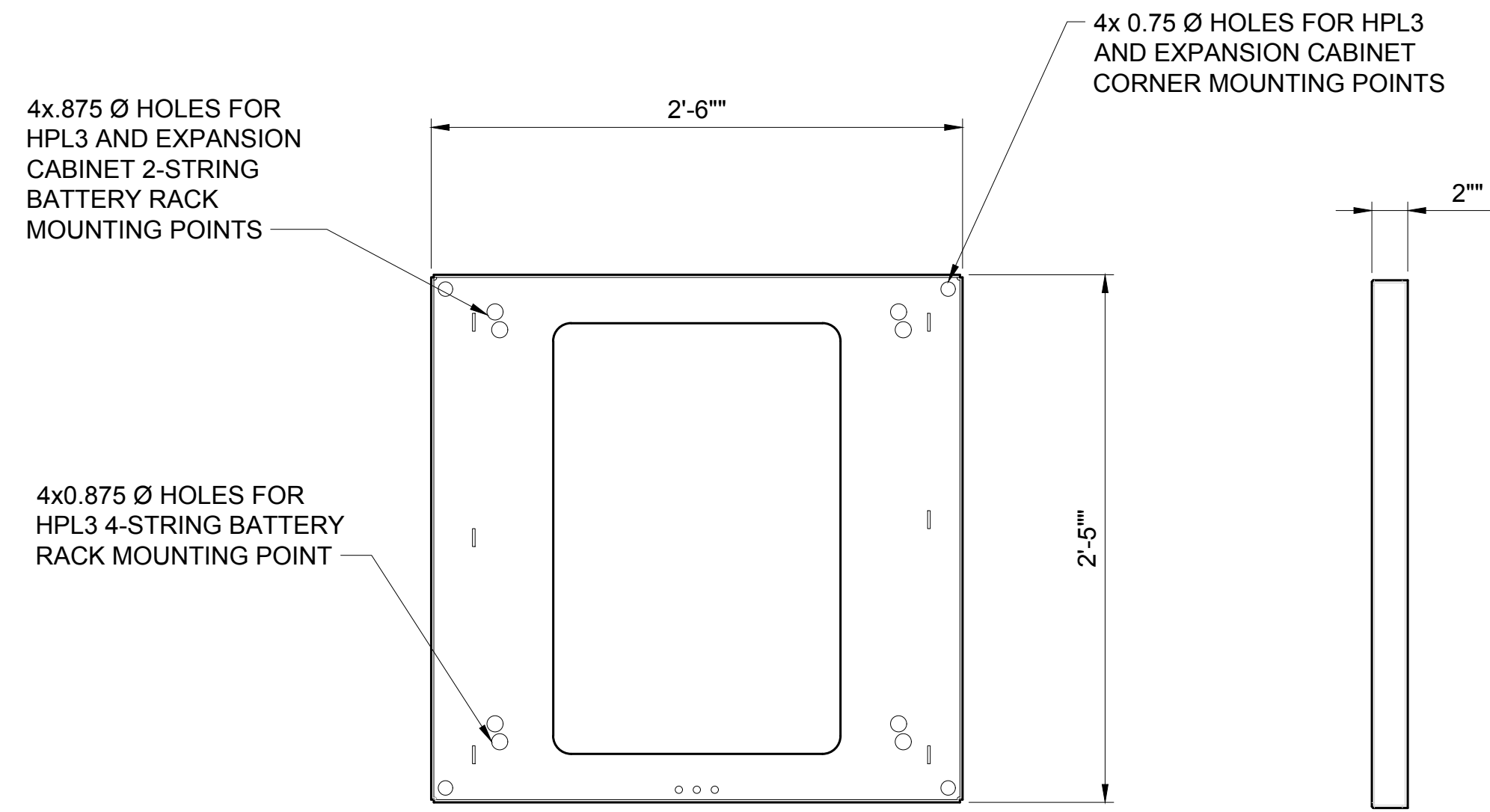
LICENSURE:  


JURISDICTIONAL APPROVAL:  


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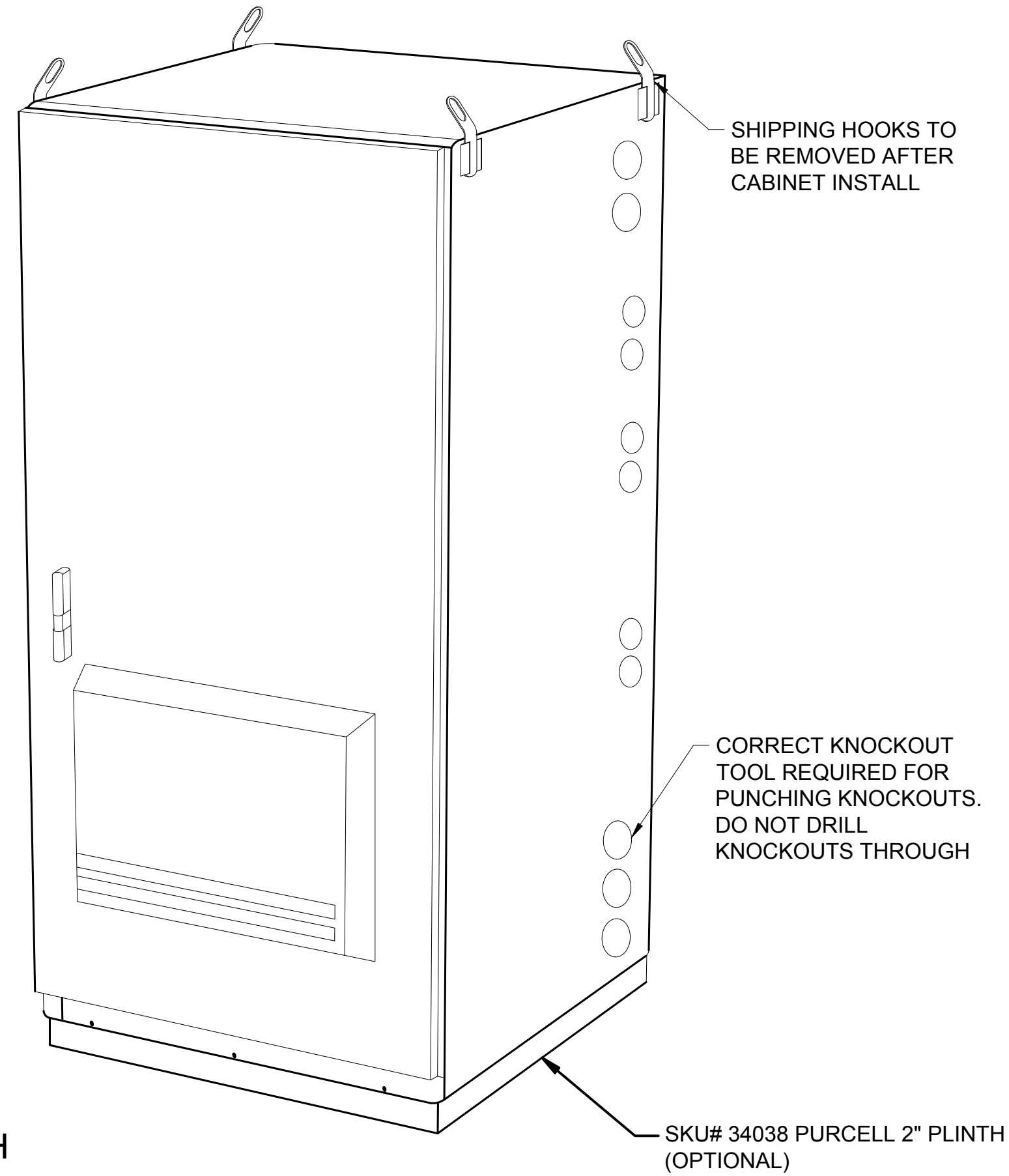
DRAWING TITLE:  
 DETAIL SHEET

DRAWING NUMBER:  
**A-3.2**    **1**  
 CEI JOB NUMBER: ANCHOR 20-06029

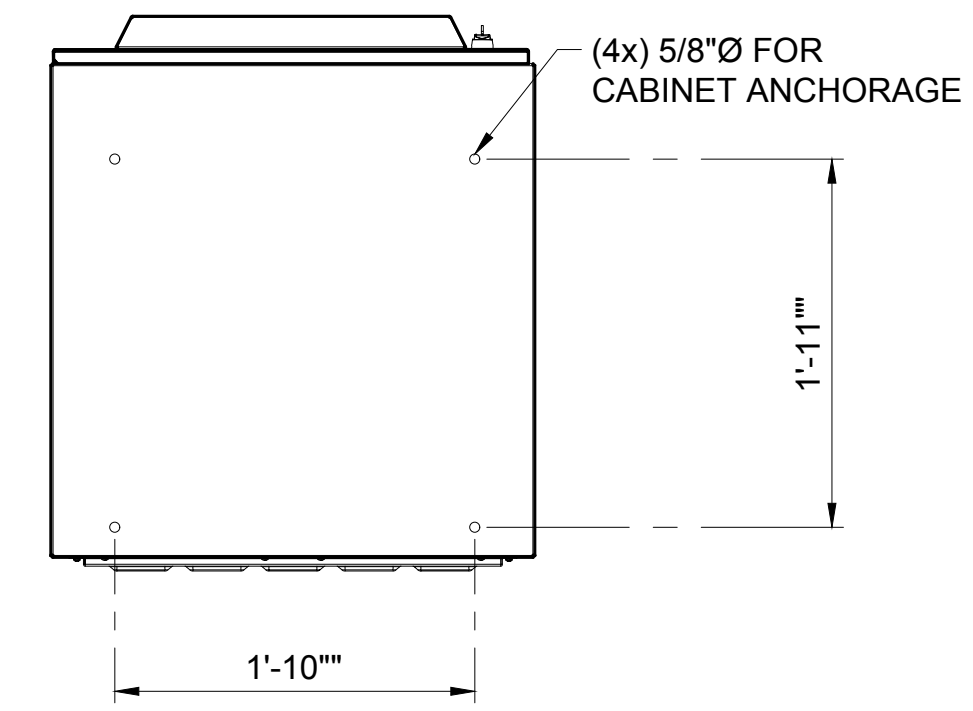


SKU# 34038 PURCELL 2" PLINTH  
 PLAN VIEW

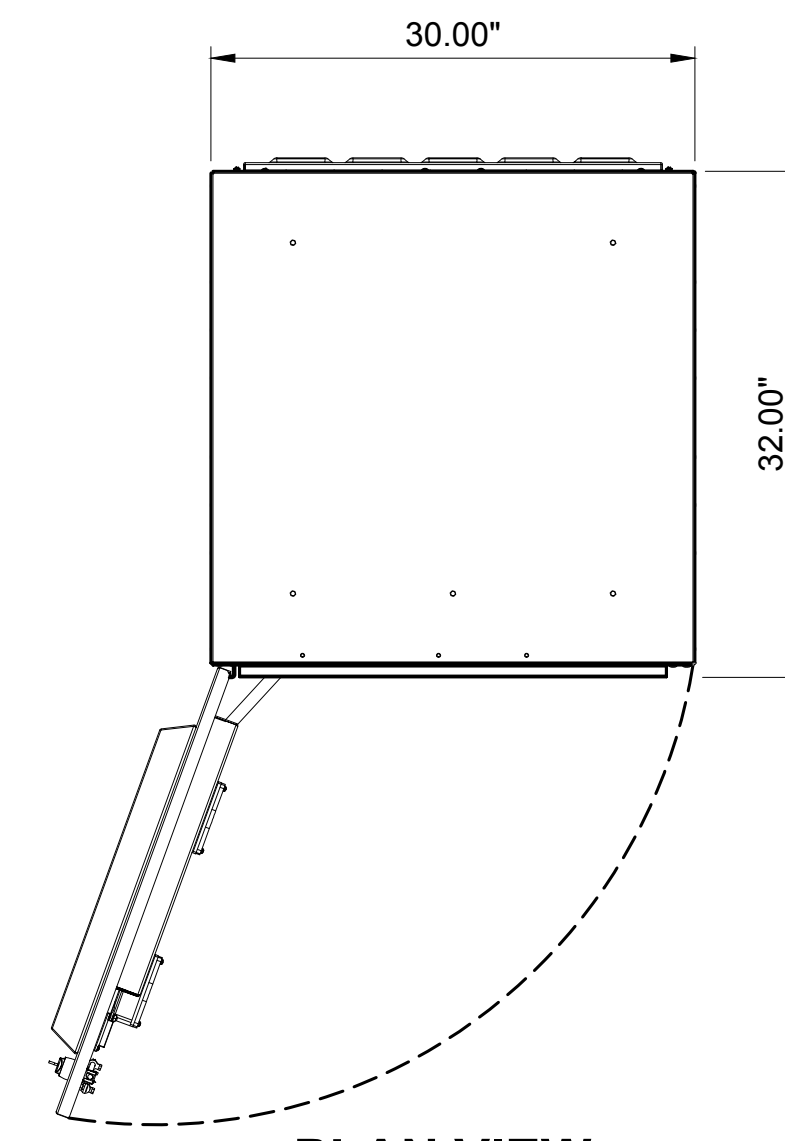
SKU# 34038 PURCELL 2" PLINTH  
 SIDE VIEW



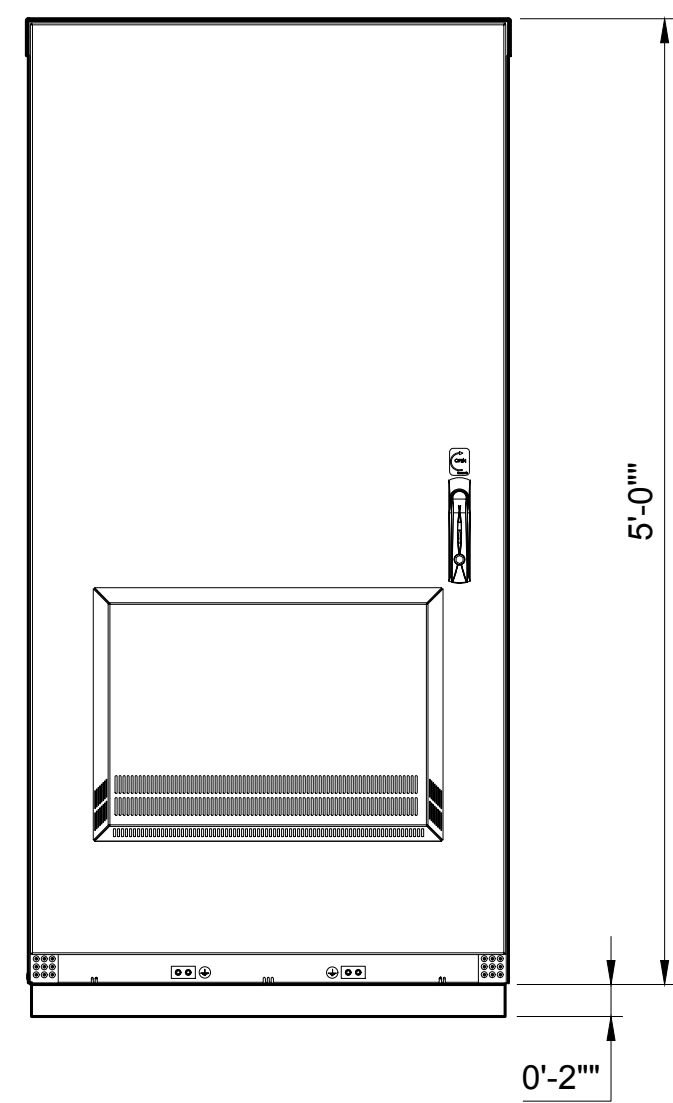
ISO VIEW



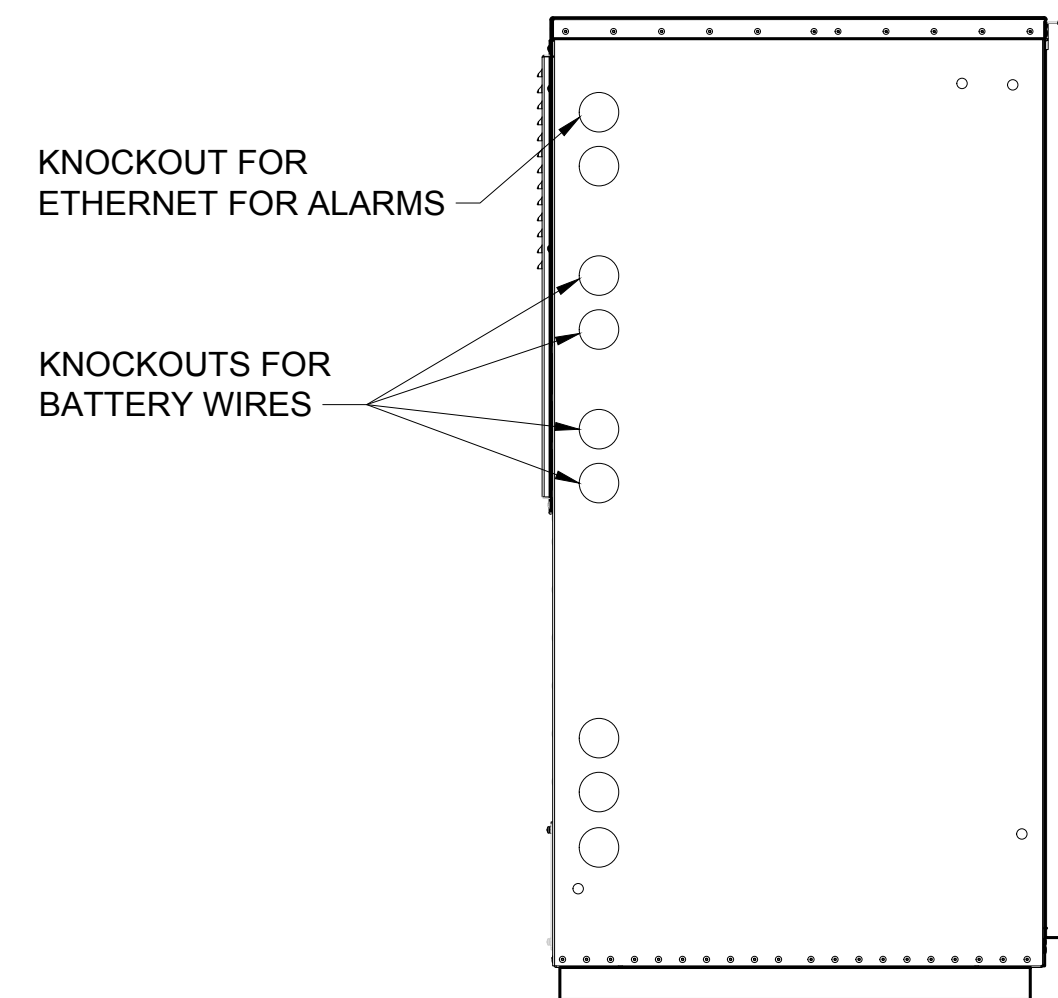
MOUNTING FOOTPRINT



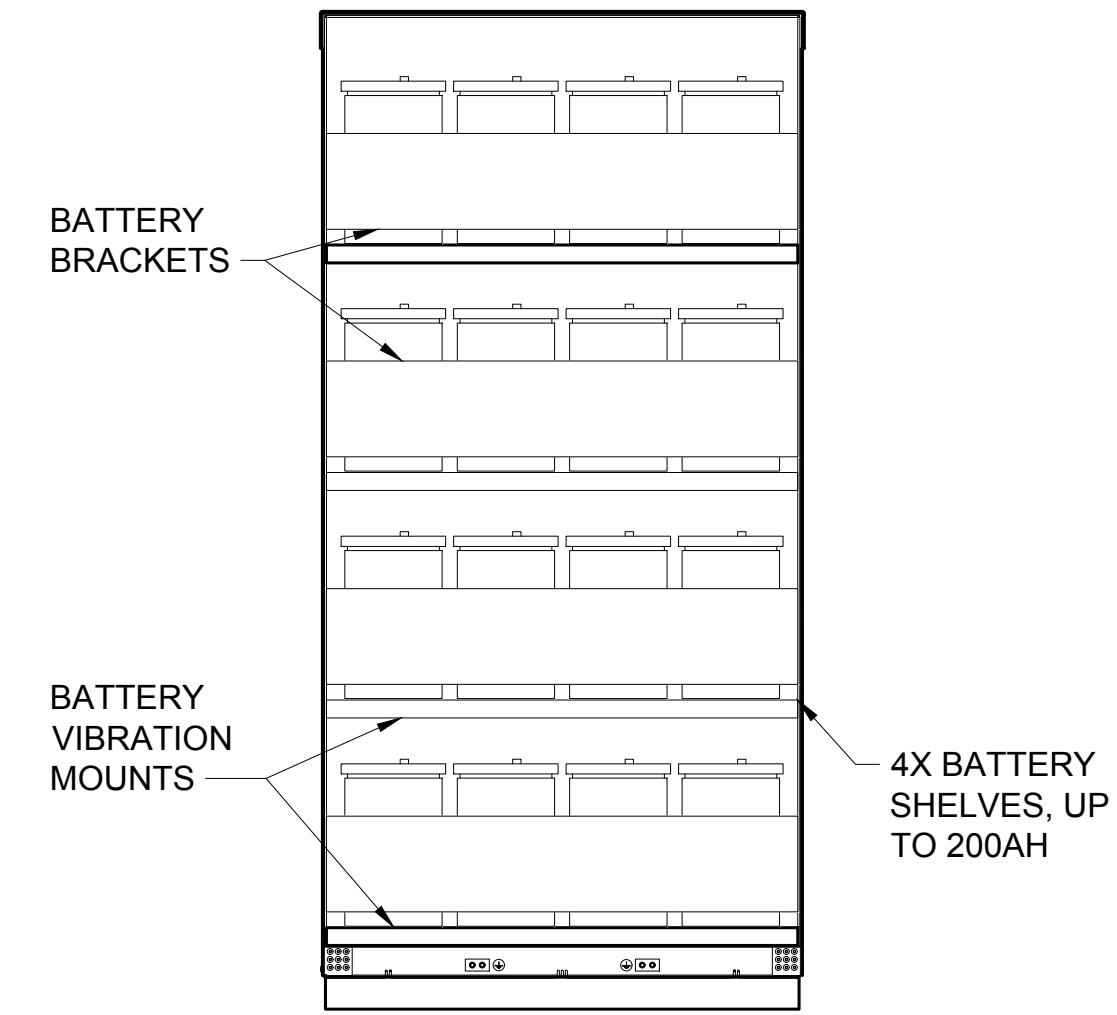
PLAN VIEW



FRONT VIEW

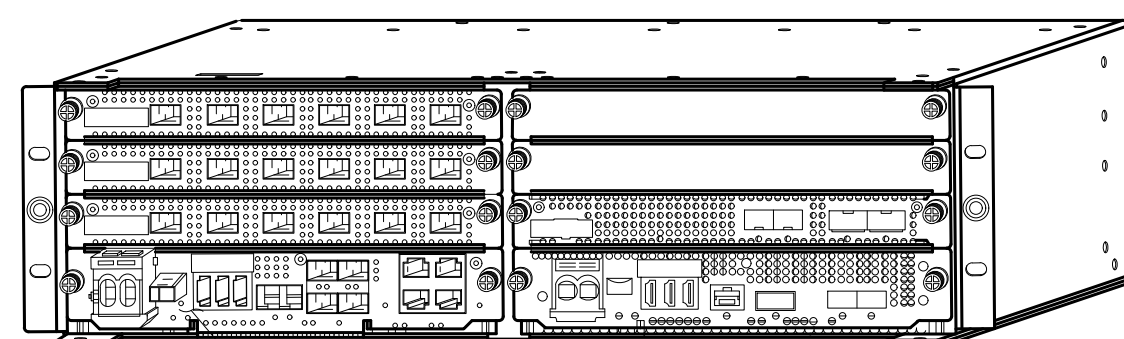
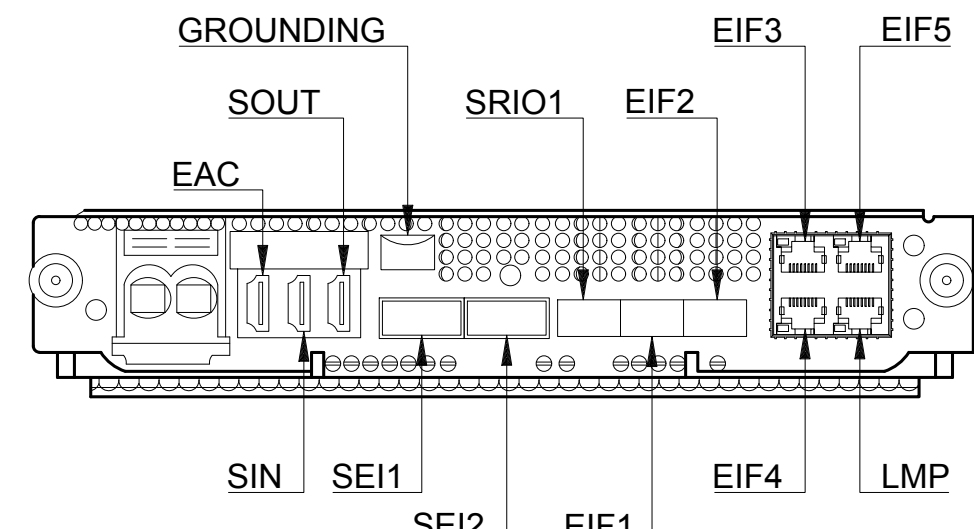
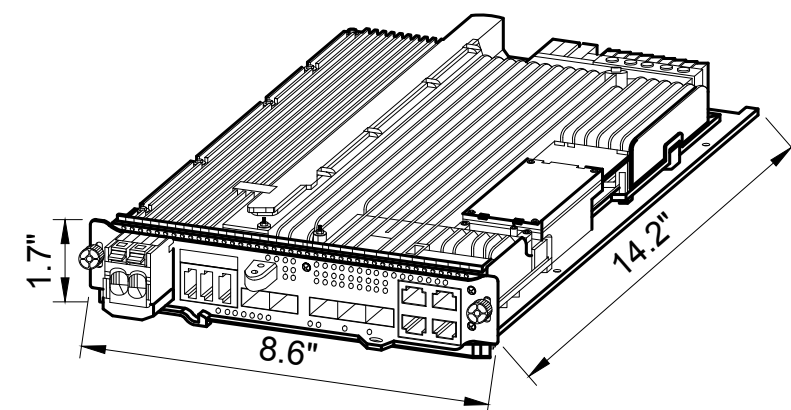


LEFT VIEW



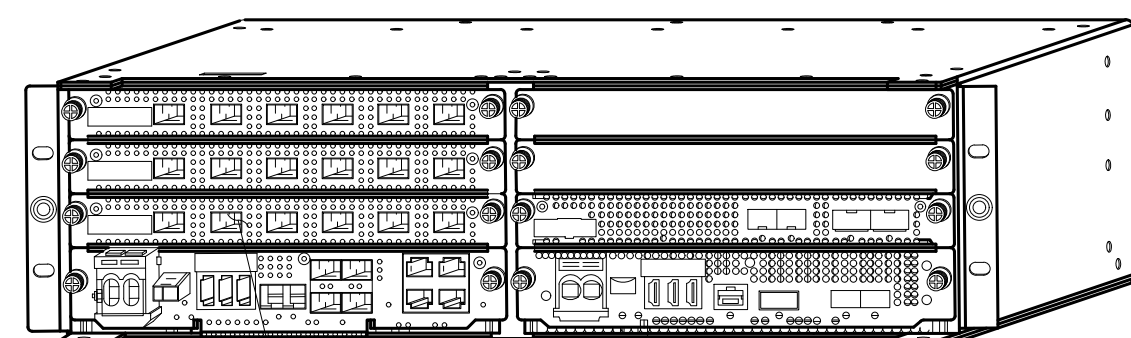
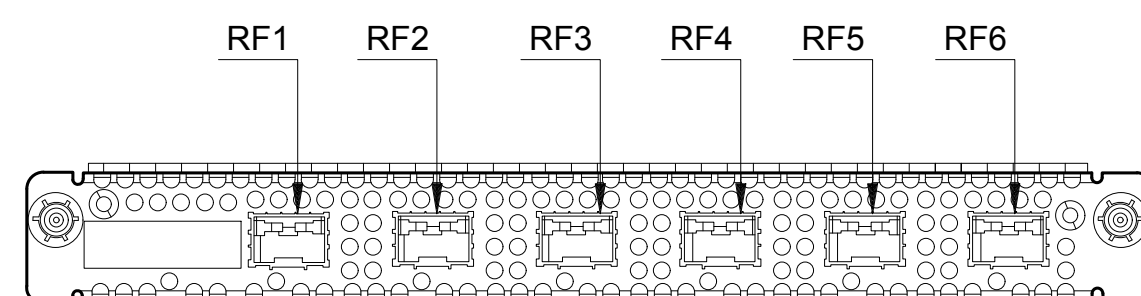
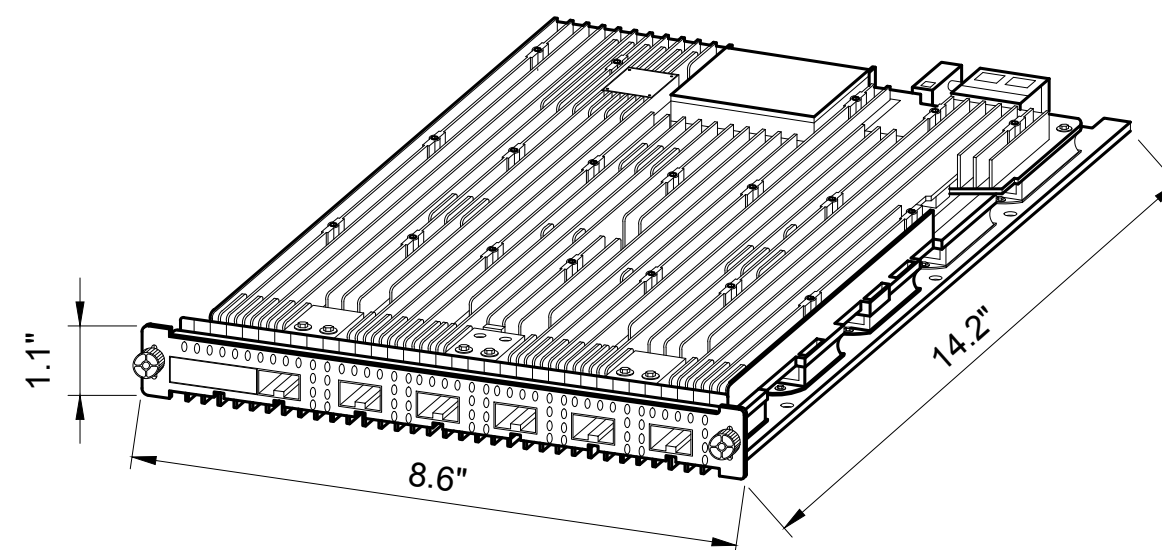
FRONT VIEW (OPEN)

MANUFACTURER:	NOKIA
MODEL:	ASIB
WEIGHT:	6.4 lbs
DIMENSIONS:	8.6"x14.2"x1.7"



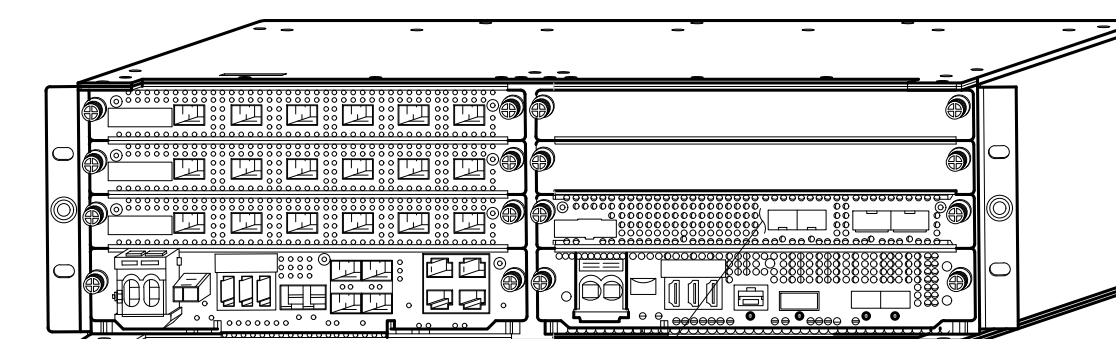
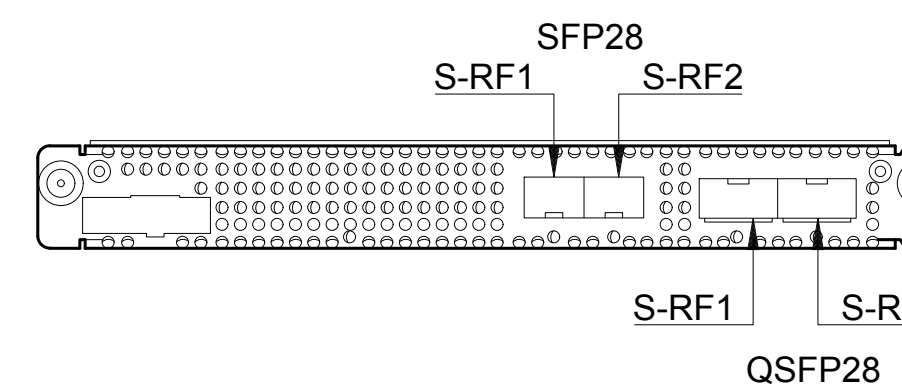
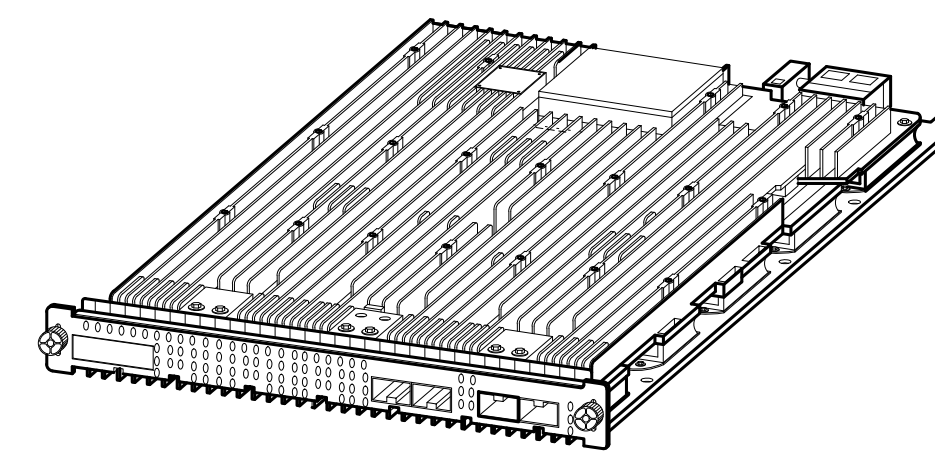
PROPOSED ASIB LOCATED WITHIN AMIA RACK

MANUFACTURER:	NOKIA
MODEL:	ABIA
WEIGHT:	4.6 lbs
DIMENSIONS:	8.6"x14.2"x1.1"



PROPOSED ABIA LOCATED WITHIN AMIA RACK

MANUFACTURER:	NOKIA
MODEL:	ABIL
WEIGHT:	4.4 lbs
DIMENSIONS:	8.6"x14.2"x1.1"

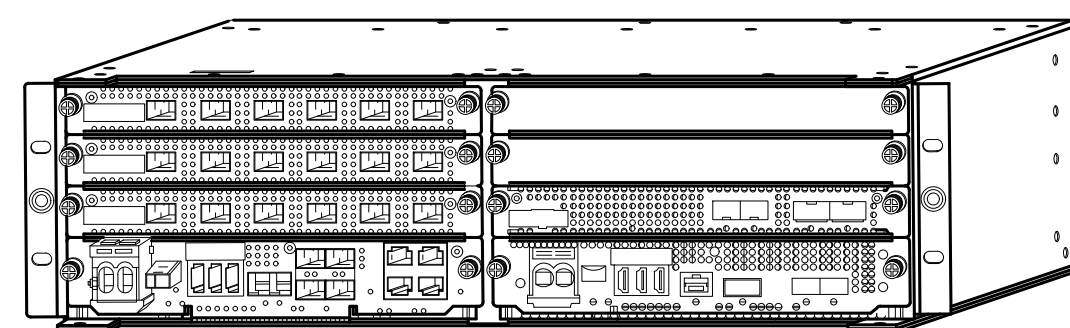
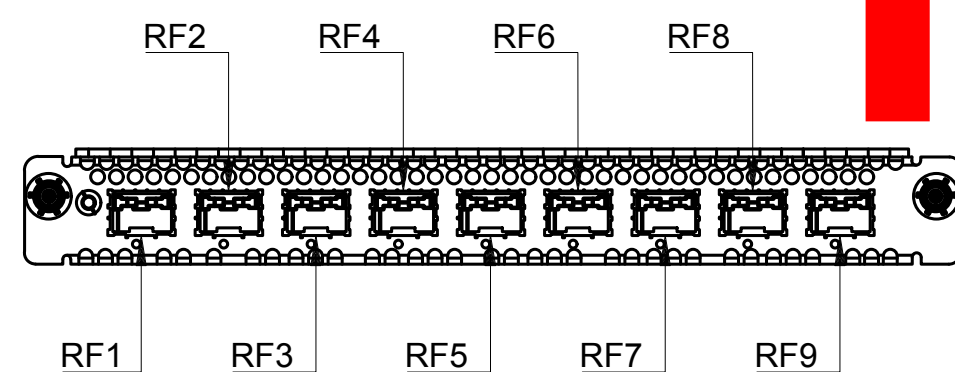
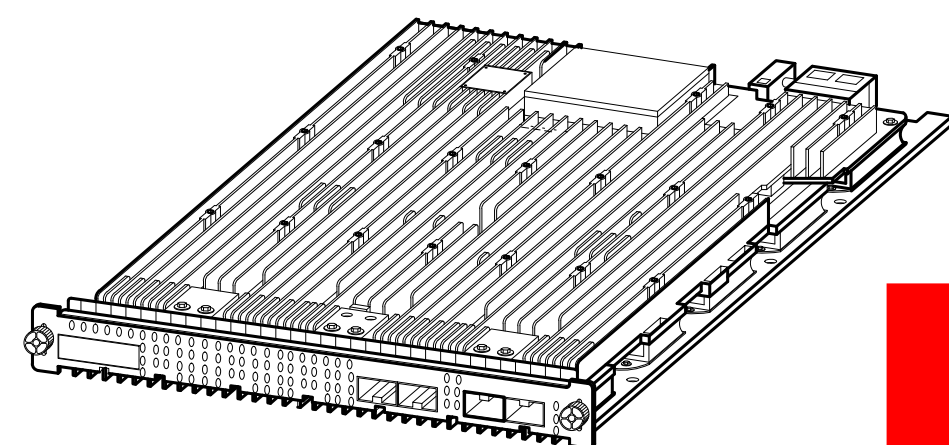


PROPOSED ABIL LOCATED WITHIN AMIA RACK

SKU# 34104 ASIB DETAIL

22x34 SCALE: NTS | 11x17 SCALE: NTS

MANUFACTURER:	NOKIA
MODEL:	ABIC
WEIGHT:	5.8 lbs
DIMENSIONS:	8.6"x14.2"x1.7"



SKU# 34103 - ABIC DETAIL

22x34 SCALE: NTS | 11x17 SCALE: NTS

SKU# 33388 - ABIA DETAIL

22x34 SCALE: NTS | 11x17 SCALE: NTS

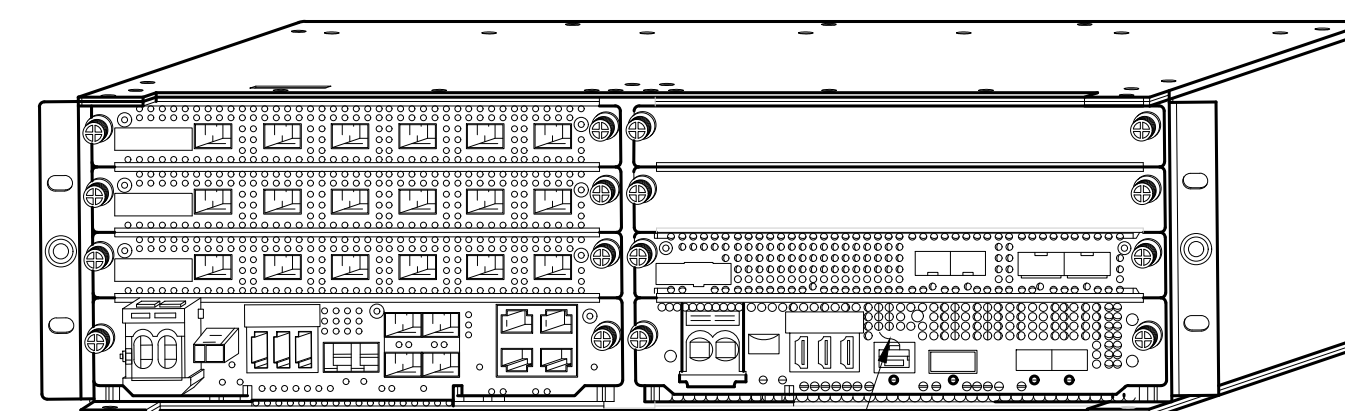
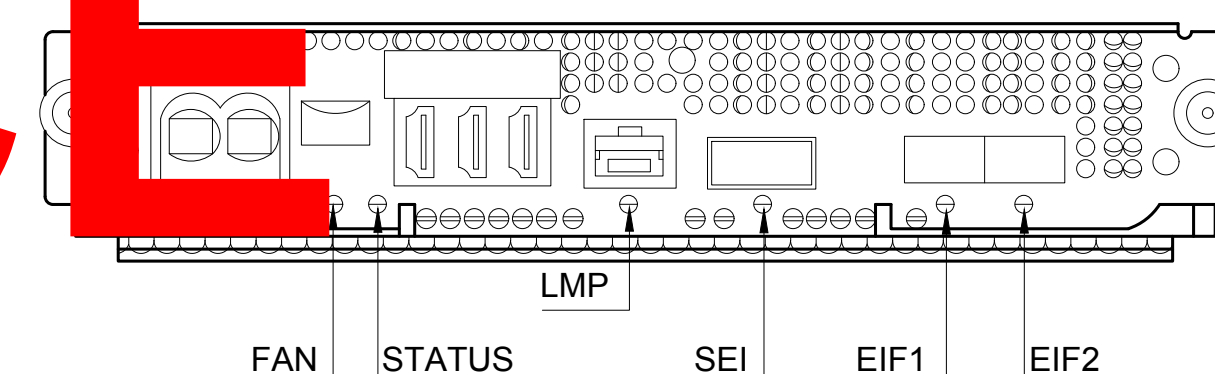
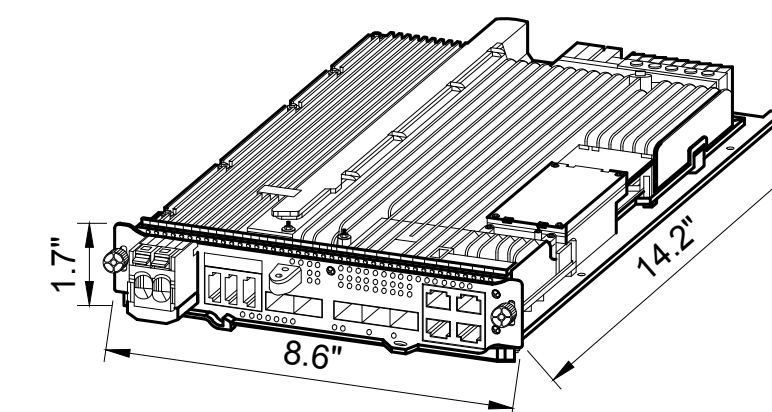
NOT USED

22x34 SCALE: NTS | 11x17 SCALE: NTS

SKU# 33617 - ABIL DETAIL

22x34 SCALE: NTS | 11x17 SCALE: NTS

MANUFACTURER:	NOKIA
MODEL:	ASIK
WEIGHT:	6.6 lbs
DIMENSIONS:	8.6"x14.2"x1.7"



PROPOSED ASIK LOCATED WITHIN AMIA RACK

SKU# 33615 - ASIK DETAIL

22x34 SCALE: NTS | 11x17 SCALE: NTS

**FOR REFERENCE ONLY**

T-Mobile®

PLANS PREPARED BY:



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PHONE: 425.487.1732  
WWW.CORNERSTONE-ENGR.COM

PROJECT INFO:

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TOTEM LOCKE

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KIRKLAND, WA 98034  
KING COUNTY

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CONSTRUCTION

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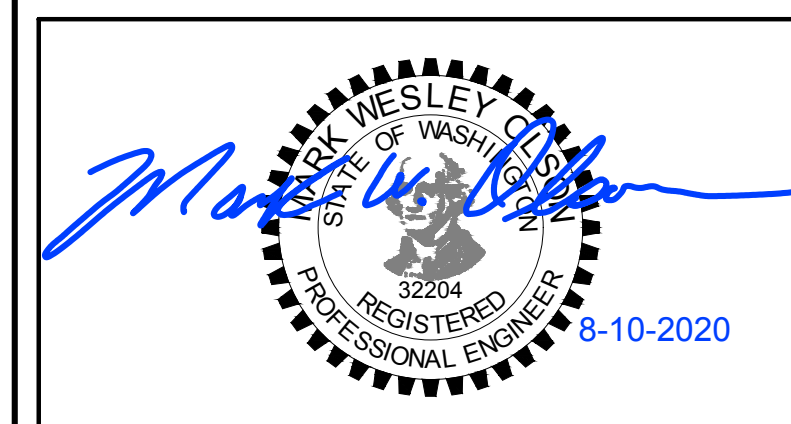
DRAWN BY: CHK.: APV.:

DMO	MWO	MWO
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CURRENT ISSUE DATE:

08-10-20

LICENSURE:



JURISDICTIONAL APPROVAL:

CITY OF KIRKLAND  
REVIEWED BY TCHAN  
10/26/2020

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DRAWING TITLE:

DETAIL SHEET

DRAWING NUMBER:

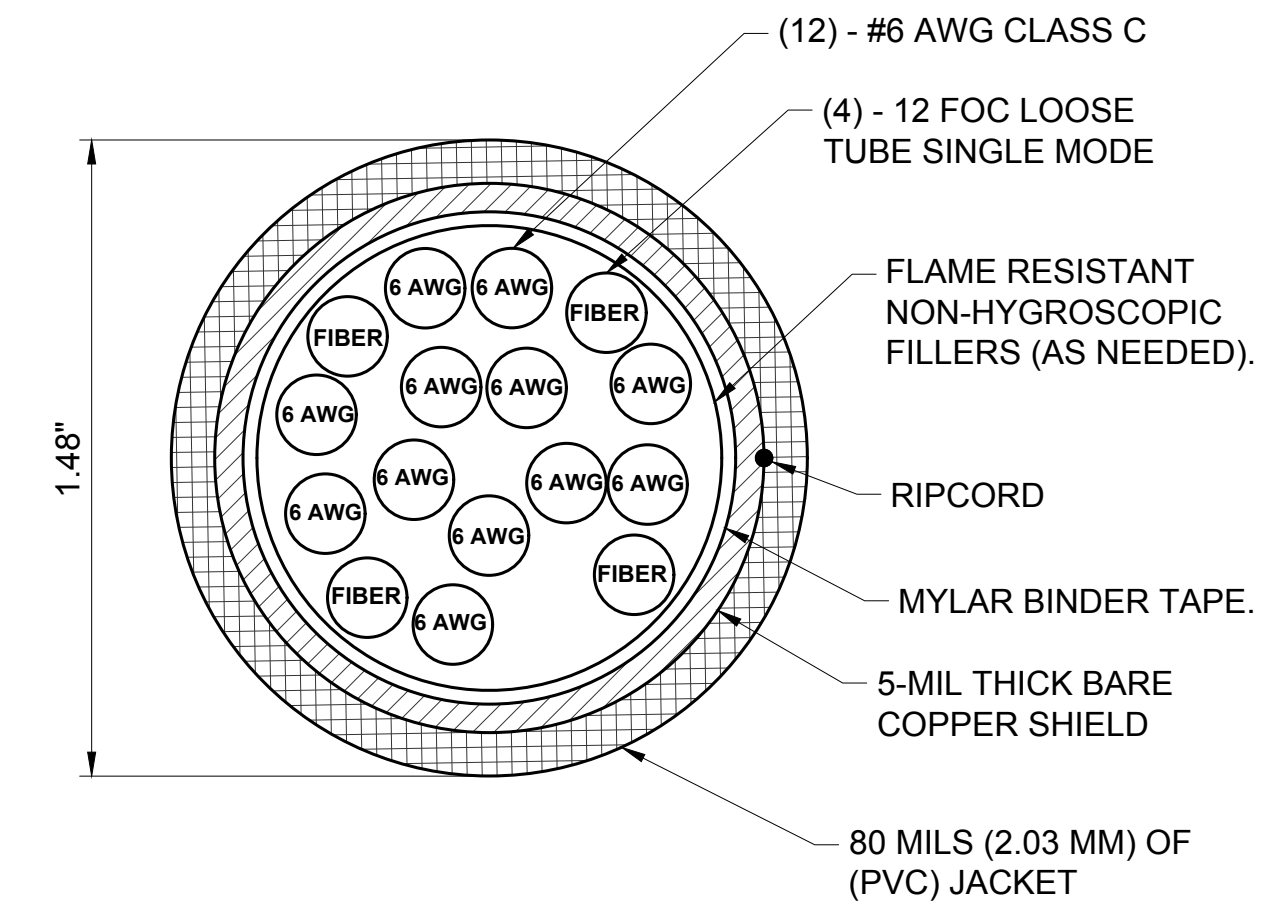
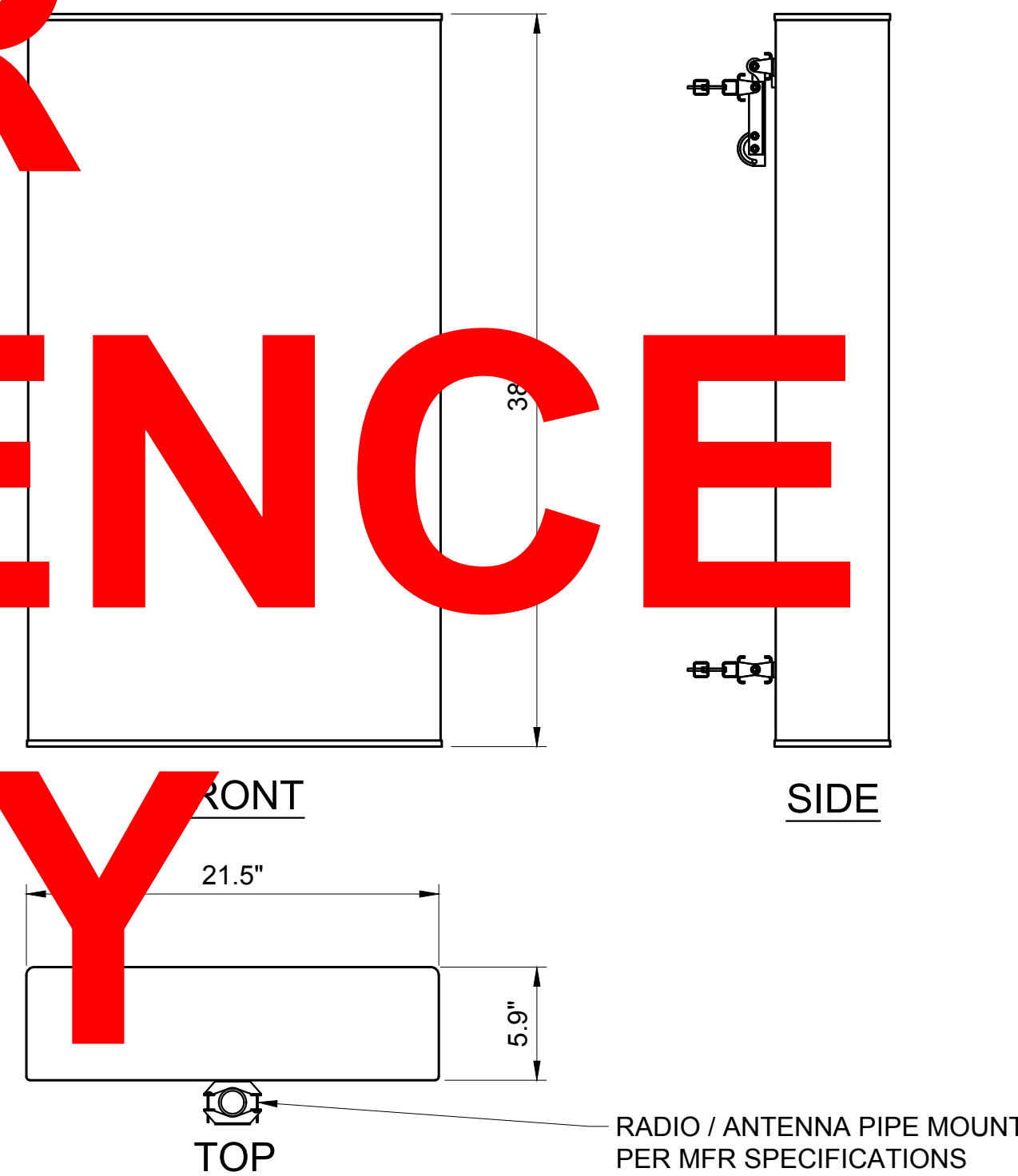
A-3.3

1

CEI JOB NUMBER: ANCHOR 20-06029

# FOR REFERENCE ONLY

MANUFACTURE:	NOKIA
MODEL:	AEHC 2.5GHz mMIMO RADIO
WEIGHT:	108.0 lbs
DIMENSIONS:	38.2"x21.5"x5.9"
MATERIAL DESCRIPTION:	NOKIA AIRSCALE MAA 64T64R 192AE B41 320W AEHC



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DRAWING TITLE:  
 DETAIL SHEET

DRAWING NUMBER:  
**A-3.4** | **1**  
 CEI JOB NUMBER: ANCHOR 20-06029

NOT USED  
 22x34 SCALE: NTS | 11x17 SCALE: NTS

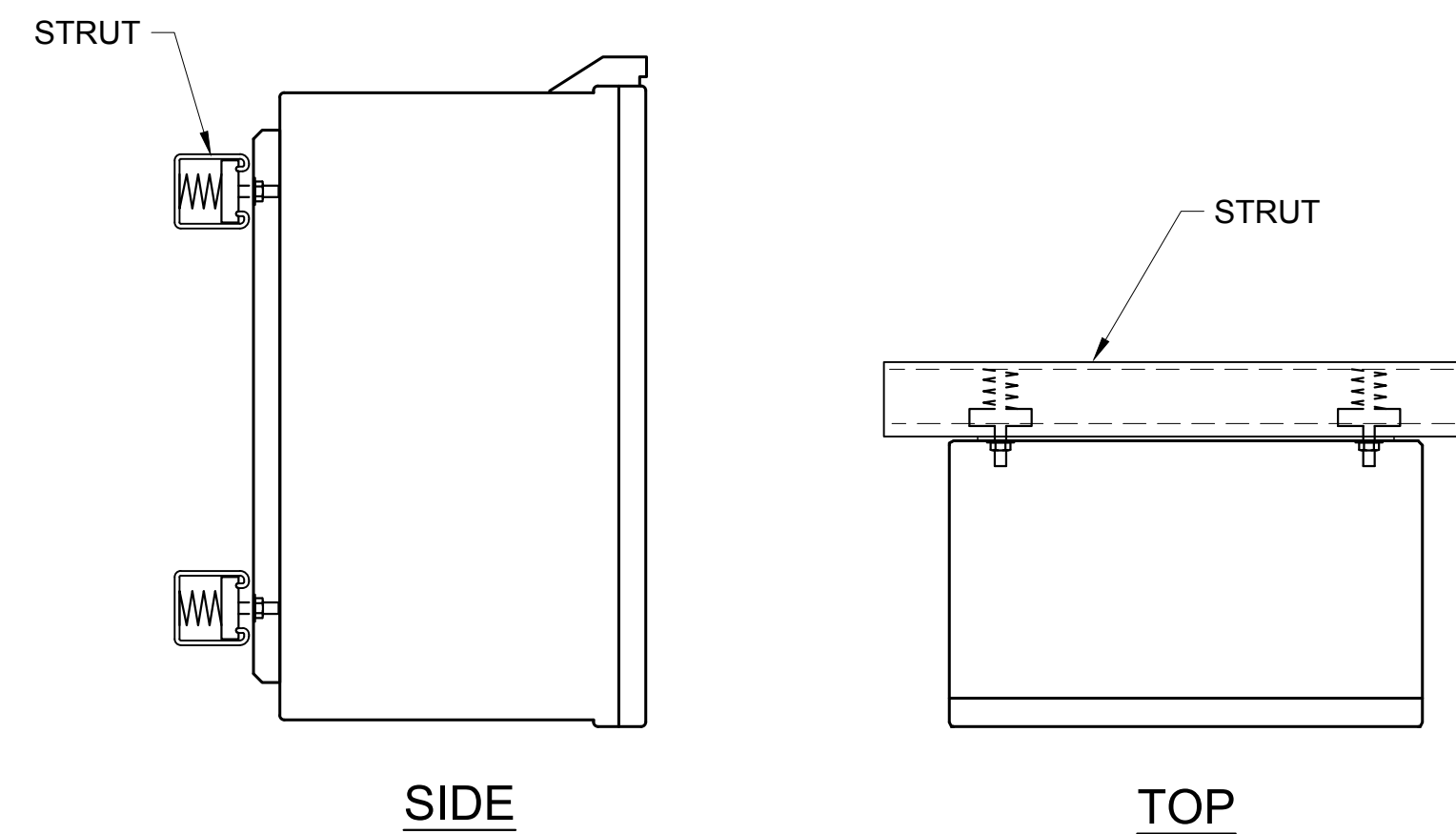
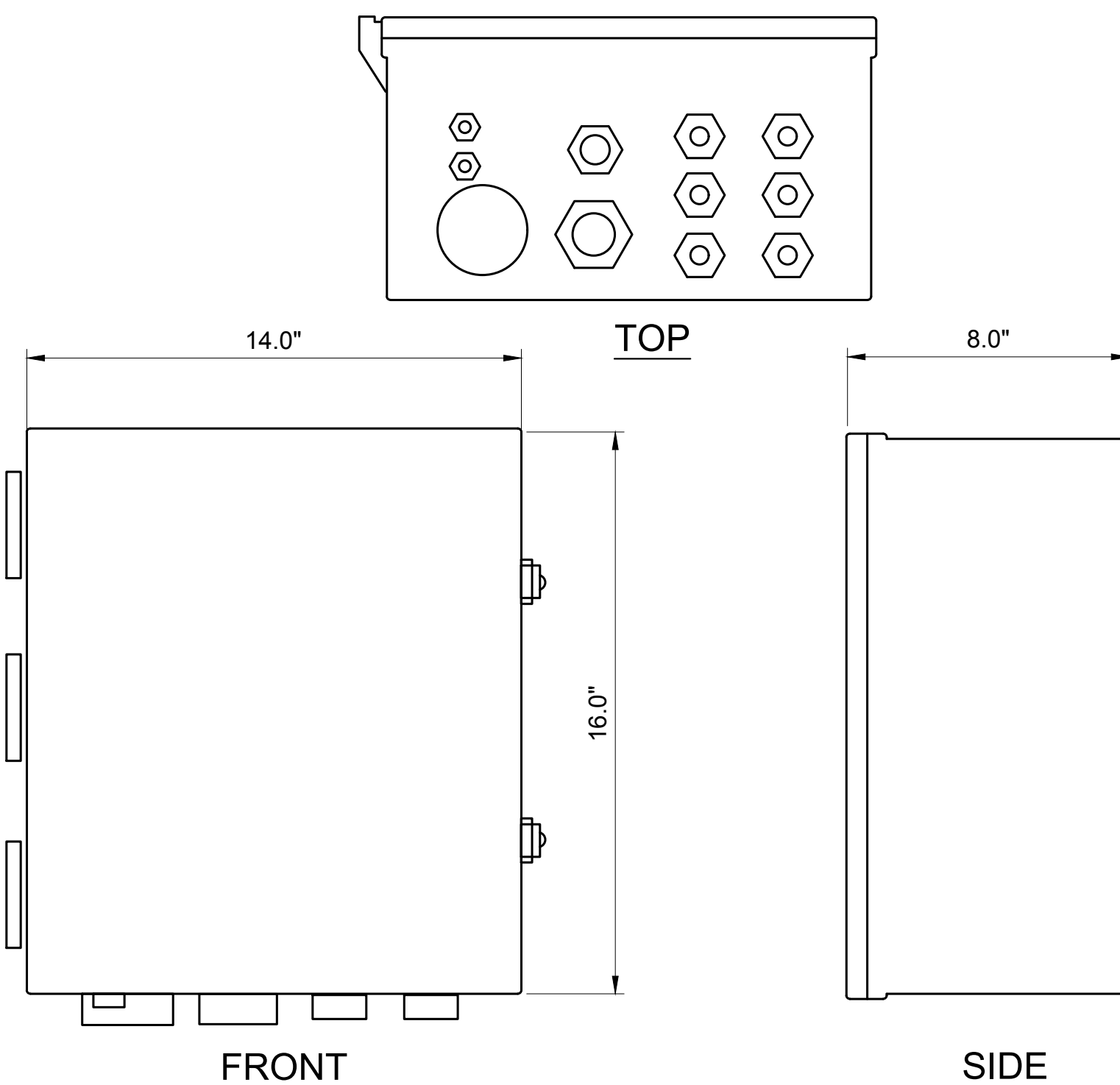
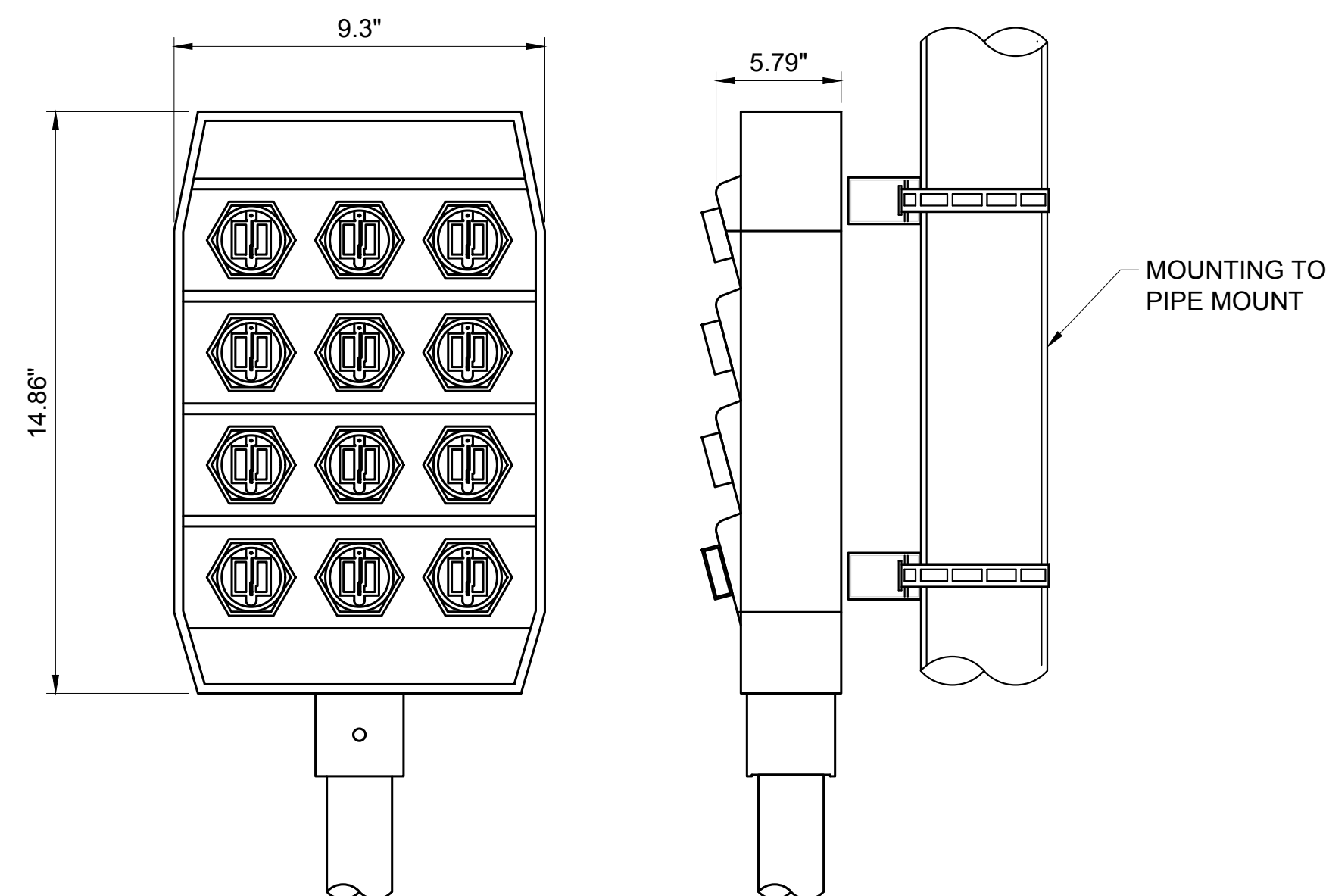
6 AEHC 475124A RRU DETAIL  
 22x34 SCALE: 1 1/2" = 1'-0" | 11x17 SCALE: 3/4" = 1'-0"

5 HCS 2.0 HYBRID CABLE DETAIL  
 22x34 SCALE: NTS | 11x17 SCALE: NTS

4  
 22x34 SCALE: NTS | 11x17 SCALE: NTS

MANUFACTURE:	ALLIANCE CORP.
MODEL:	ACFB05-HICAP-FULLASY-CRS
WEIGHT:	8.76 lbs
DIMENSIONS:	9.3"x14.86"x5.79"
MOUNTING KIT:	PROVIDED

MANUFACTURE:	COMMSCOPE
WEIGHT:	23.5 lbs
DIMENSIONS:	14.0"x16.0"x8.0"
MOUNTING KIT:	PROVIDED



HCS 2.0 PENDANT DETAIL  
 22x34 SCALE: NTS | 11x17 SCALE: NTS

3 HCS 2.0 JUNCTION BOX DETAIL  
 22x34 SCALE: NTS | 11x17 SCALE: NTS

2 HCS 2.0 JUNCTION BOX MOUNTING DETAIL  
 22x34 SCALE: NTS | 11x17 SCALE: NTS

1  
 22x34 SCALE: NTS | 11x17 SCALE: NTS

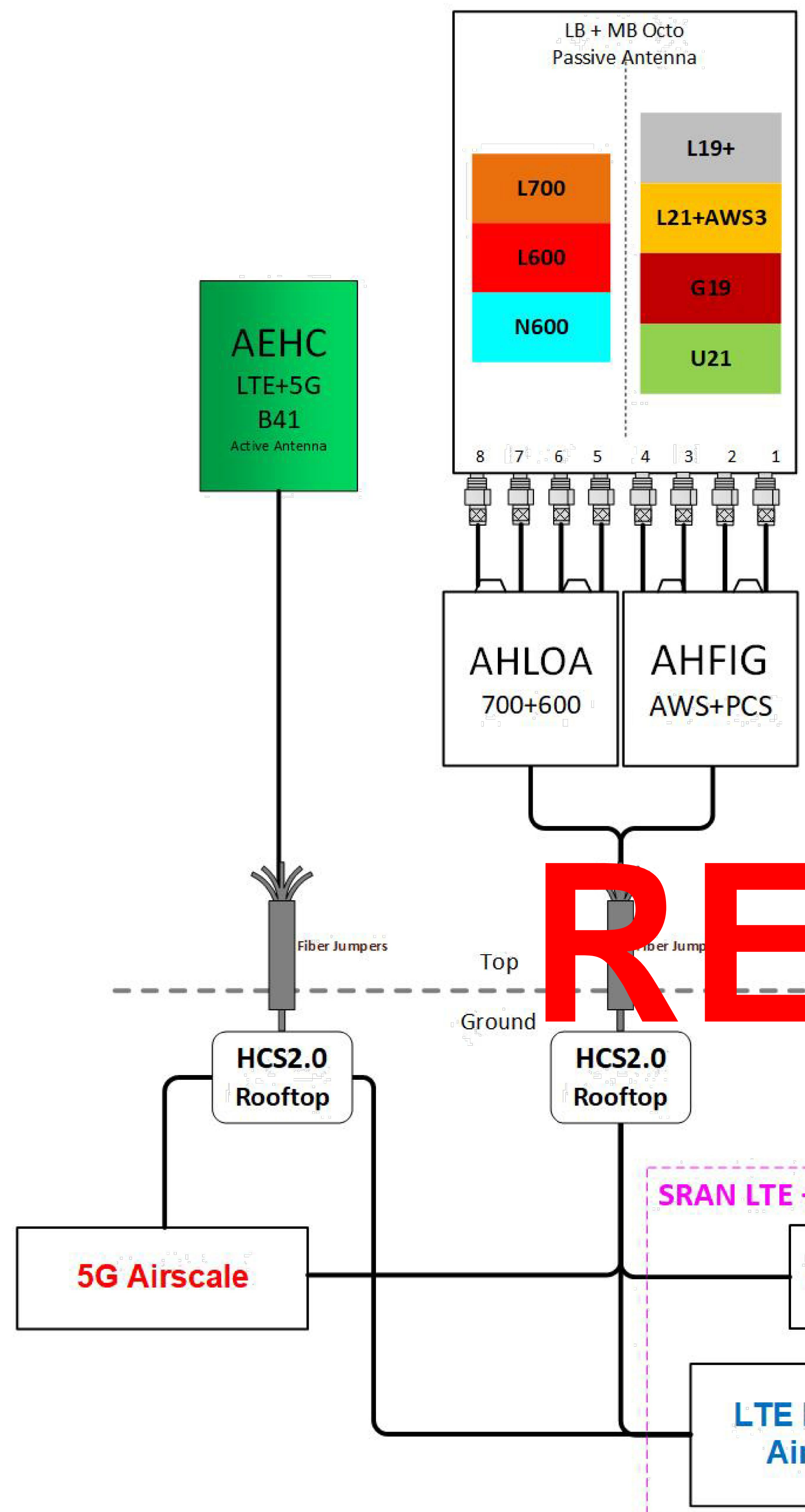
# Configuration 56792EZ\_SR\_U21

\* For 5G and LTE Airscale BB dimensioning refer to Fiber Port matrices.  
(Alpha, Beta & Gamma)

**FDD - Lowband**  
B12 (L700) – 5 MHz  
B71 (L600) – 10 MHz  
B71 (N600) – 10 MHz

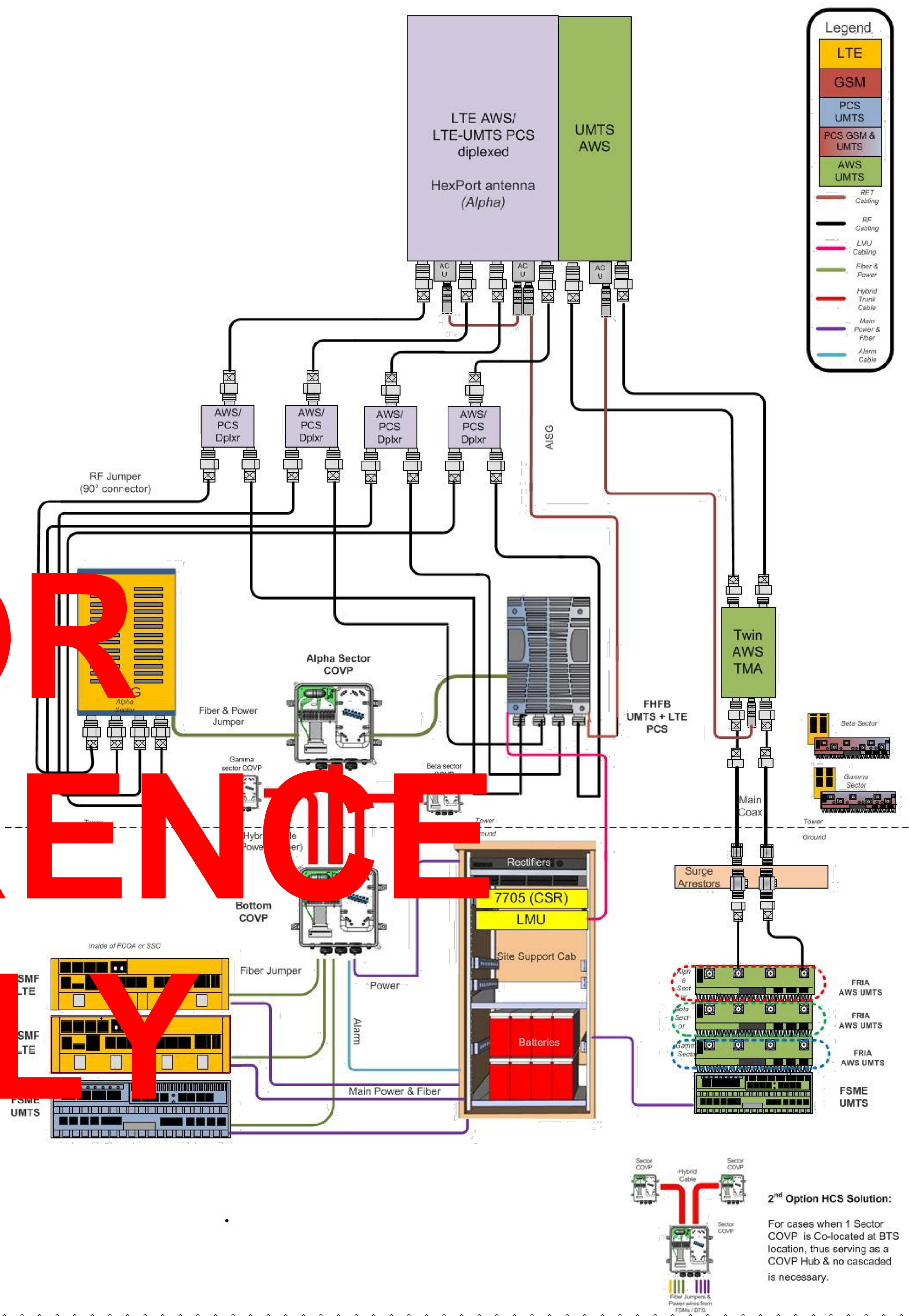
**FDD - Midband**  
B4 (L2100) – 20 MHz  
B2 (L1900) – 20 MHz  
B25 (L1900) – 20 MHz  
B66 (AWS3) – 5MHz  
SRAN – GSM PCS/UMTS  
AWS

**TDD - Band 41**  
L2.5 – 60 MHz  
N2.5 – 100 MHz



# Diplexing Option No. 2 NSN Configuration 92A\_1HP\_4Diplexers\_U2100 on Ground

(1 Sector of cabling shown for clarity)



**Legend**

- LTE
- GSM
- PCS UMTS
- PCS GSM & UMTS
- AWS UMTS

RET Cabling  
RF Cabling  
LMU Cabling  
Fiber & Power  
Hybrid Trunk Cable  
Main Power & Fiber  
Alarm Cable

FOR REFERENCE ONLY



PLANS PREPARED BY:  
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DMO MWO MWO  
CURRENT ISSUE DATE:  
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DRAWING TITLE:  
RF DETAILS

DRAWING NUMBER:  
RF-1 1  
CEI JOB NUMBER: ANCHOR 20-06029

PROPOSED ALL SECTORS  
22x34 SCALE: NTS | 11x17 SCALE: NTS

EXISTING ALL SECTORS  
22x34 SCALE: NTS | 11x17 SCALE: NTS

1

PLANS PREPARED BY:



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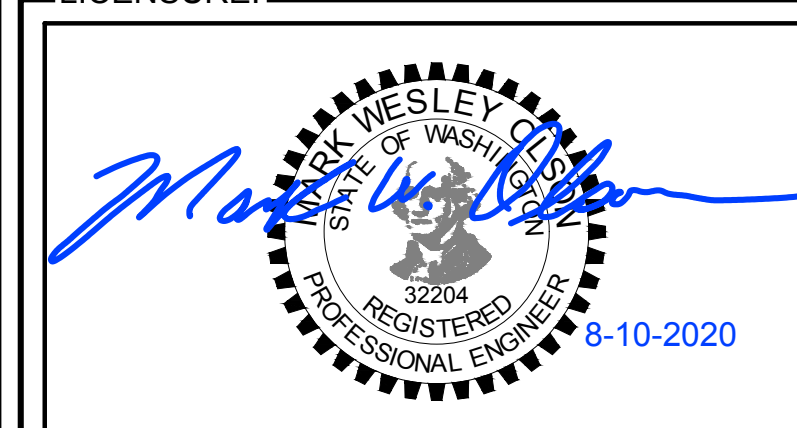
DRAWN BY: CHK.: APV.:

DMO	MWO	MWO
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DRAWING TITLE:

RF DETAILS

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RF-1.1 1

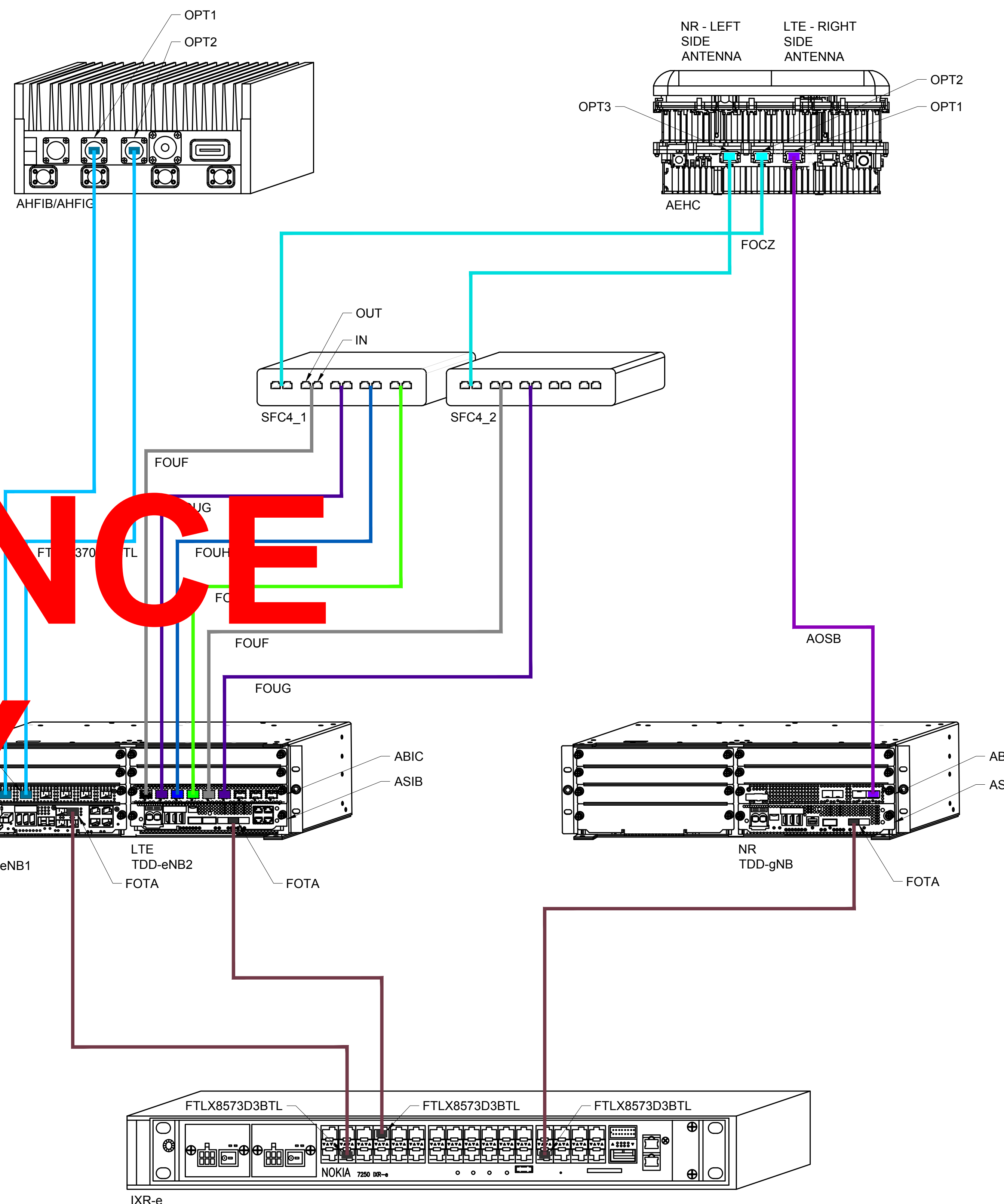
CEI JOB NUMBER: ANCHOR 20-06029

NOKIA ITEM CODE/SECTOR	PRODUCT NAME
474335A x 2	FOCZ QSFP+ 4x10 km SM
474385A x 2	FOUF SFP+ 10GBASE-LR 1271 nm CWDM 10 km SM
474386A x 2	FOUG SFP+ 10GBASE-LR 1291 nm CWDM 10 km SM
474387A x 1	FOUH SFP+ 10GBASE-LR 1311 nm CWDM 10 km SM
474388A x 1	FOUI SFP+ 10GBASE-LR 1331 nm CWDM 10 km SM
474829A x 2	AOSB QSFP28 SM 10 km LC
FTLX1370W4BTL x 4	SM SFP 1310 nm CPRI 9.8G 1.4km (CPRI)
473471A x 3	FOTA Optical SFP+ 10GBase-SR 850nm MM
FTLX8573D3BTL x 3	10Gb/s 850nm Multimode SFP+ Datacom Transceiver

NOTE:  
JDSU AND EXFO GEAR CAN BE USED TO READ WAVELENGTH ON THE SFPs.

**FOR REFERENCE ONLY**

- PORT CONNECTION ON THE ABIA MAY VARY AND ARE DESIGNATED AS RFx (x CAN BE 1-6)
- AHFIB/FIG IS THE SAME AS ABIA



PLANS PREPARED BY:



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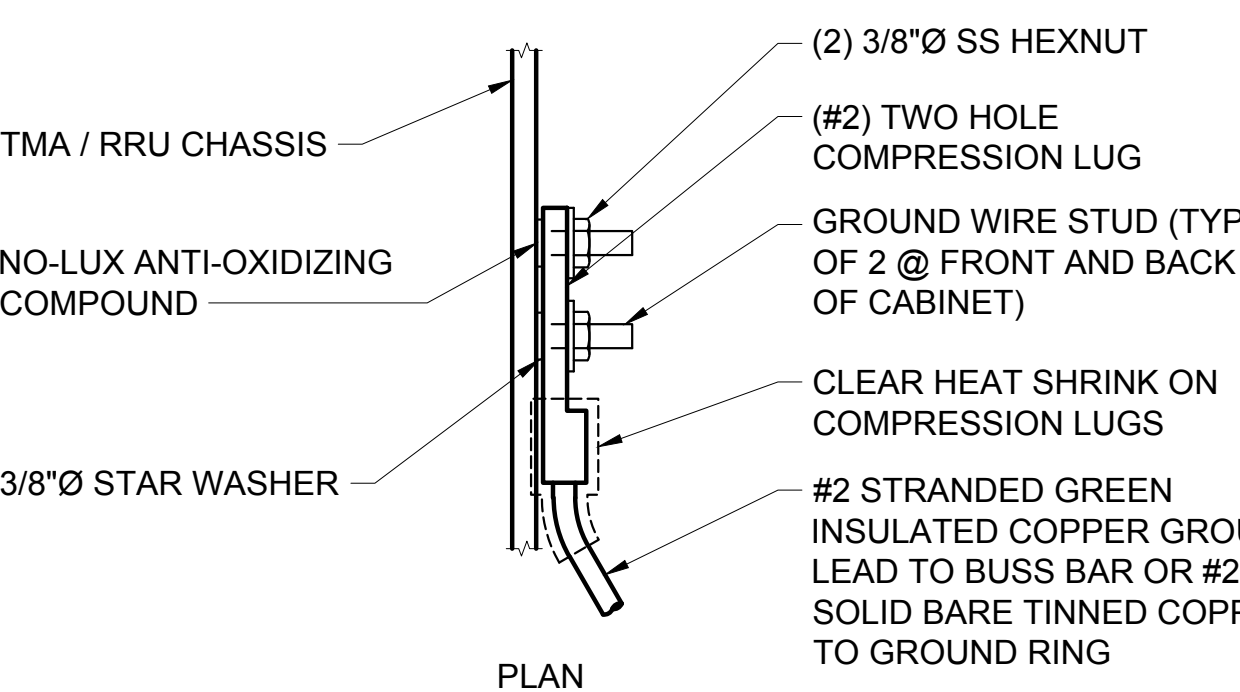
DRAWING TITLE:

SCHEMATIC GROUNDING  
PLAN & DETAILS

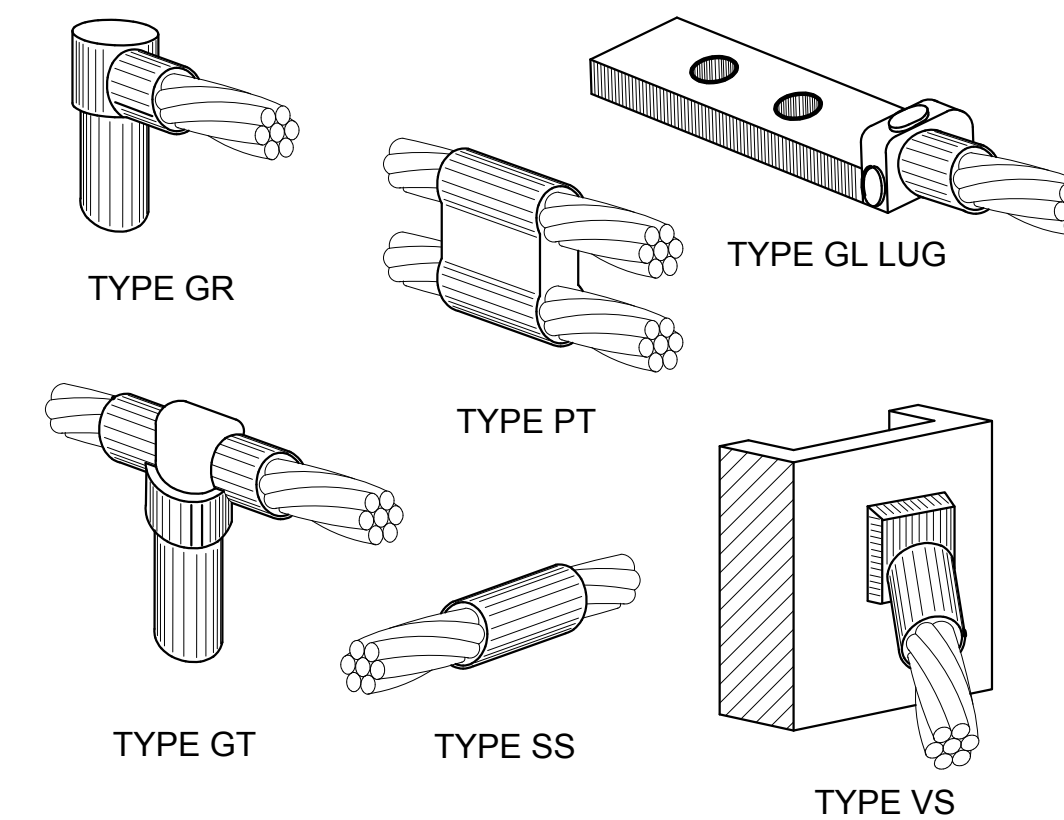
DRAWING NUMBER:

E-1 1

CEI JOB NUMBER: ANCHOR 20-06029



NOTE:  
FOR GROUNDING CONNECTIONS TO PAINTED CABINETS CHASSIS, GRIND OFF ALL ENAMEL COATINGS TO BARE METAL AT LUG CONTACT AREA PRIOR TO MAKING BOLTED LUG CONNECTION. APPLY NO-LUX TO ALL EXPOSED BARE METAL.



NOTE:  
CADWELD "TYPES" SHOWN ABOVE ARE EXAMPLES - CONSULT WITH PROJECT MANAGER FOR SPECIFIC TYPES OF CADWELDS TO BE USED FOR THIS PROJECT.

FOR REFERENCE ONLY

GROUND ATTACHMENT

22x34 SCALE: NTS 11x17 SCALE: NTS

NOT USED

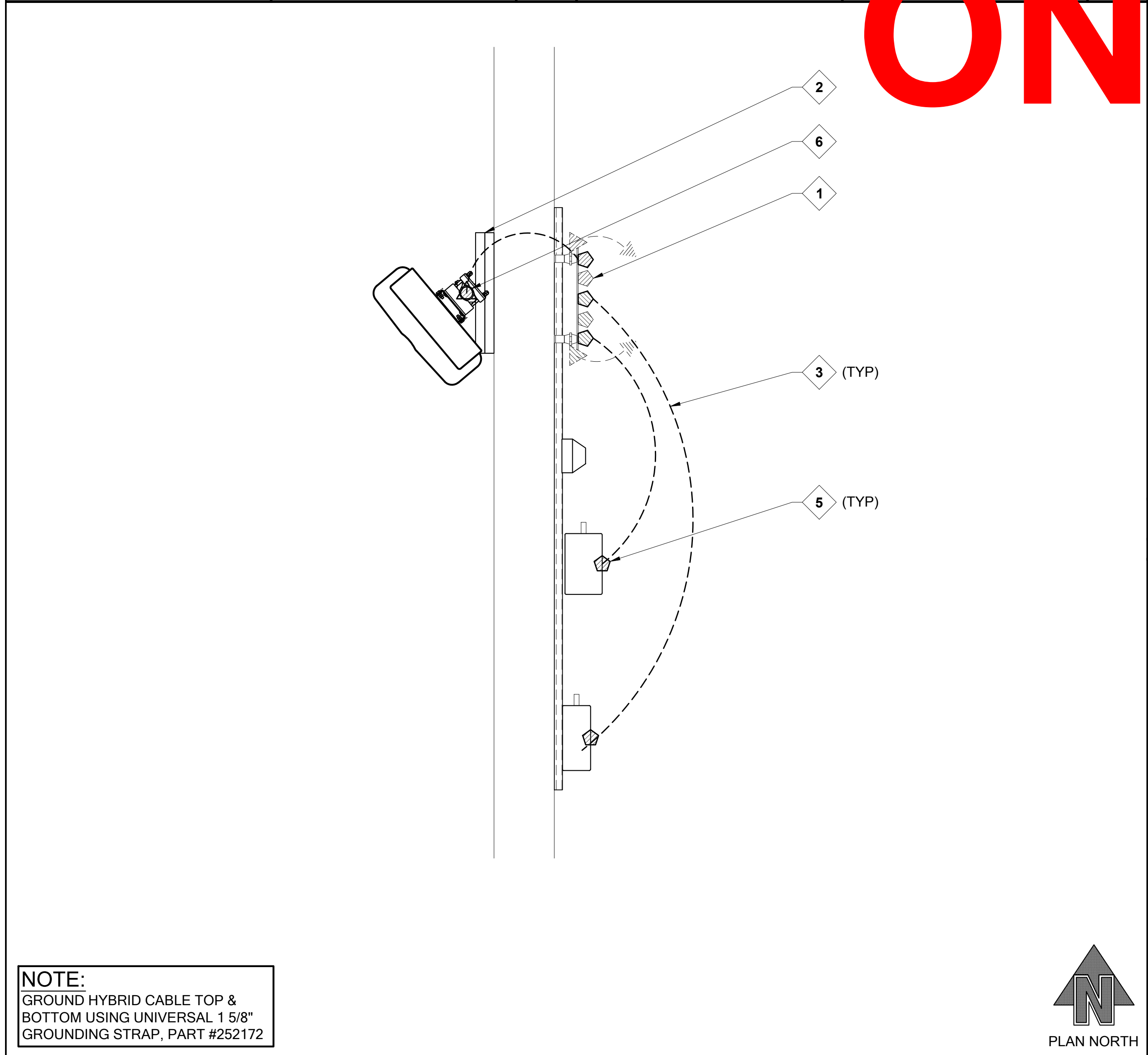
22x34 SCALE: NTS

NOT USED

22x34 SCALE: NTS

CADWELD CONNECTIONS

22x34 SCALE: NTS 11x17 SCALE: NTS



NOTE:  
GROUND HYBRID CABLE TOP & BOTTOM USING UNIVERSAL 1 5/8" GROUNDING STRAP, PART #252172

- 1. (E) GROUND ACCESSORY BUSS BAR, TYP.
- 2. (E) ANTENNA MOUNTING STRUCTURE.
- 3. PROPOSED #2 STRANDED GREEN INSULATED COPPER GROUND LEAD, TYP.
- 5. PROPOSED GROUND CONNECTION TO RRU. SEE 12/E-1.
- 6. PROPOSED CADWELD CONNECTION TO PIPE MAST. SEE 9/E-1.

KEYED NOTES

22x34 SCALE: NTS 11x17 SCALE: NTS

SYMBOL	DESCRIPTION
	MASTER GROUND BAR 1/4"x4"x24" COPPER
	ACCESSORY GROUND BAR 1/4"x4"x12" OR 1/4"x4"x20" COPPER
	GROUND INSPECTION WELL
	5/8"x8'-0" COPPER CLAD STEEL GROUND ROD
	COMPRESSION LUG/MECHANICAL CONNECTION
	CADWELD CONNECTION
	SIDE SPLICE CADWELD
	FIELD VERIFY & TIE INTO EXISTING GROUNDING

1. GROUNDING SHALL COMPLY WITH LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
2. MINIMUM BENDING RADIUS FOR GROUND CONDUCTOR IS 8".
3. NO SPLICES PERMITTED IN GROUND CONDUCTORS.
4. ALL GROUNDING CONNECTORS TO BE CLEAN AND FREE OF PAINT AT THEIR MATING SURFACES AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. USE PENETROX OR EQUIVALENT ANTIOXIDANT GREASE.
5. ALL GROUND BAR CONNECTIONS ARE TO BE 2 HOLE LUG COMPRESSION TYPE. STACKED CONNECTIONS ARE NOT ACCEPTABLE. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BAR WILL BE PERMITTED.
6. ENSURE ALL MECHANICAL CONNECTORS ARE TORQUED TO THE MANUFACTURER'S SPECIFIED VALUES.
7. MULTIPLE BONDS ON GROUND RODS TO BE SEPARATED BY AT LEAST 6".
8. MAXIMUM RESISTANCE OF THE COMPLETED GROUND SYSTEM SHALL NOT EXCEED A RESISTANCE OF 5 OHMS TO EARTH.
9. GROUND WIRES SHALL NOT BE INSTALLED THROUGH HOLES IN ANY METAL OBJECTS OR SUPPORTS; TO PRECLUDE ESTABLISHING A "CHOKE" POINT.
10. GROUND BARS SHALL NOT BE FIELD MODIFIED.
11. GROUND RING BURIAL DEPTH SHALL BE 30".
12. A CERTIFIED CONTRACTOR WILL MAKE ALL MEASUREMENTS REQUIRED TO TEST THE GROUNDING SYSTEM USING A MEGGER OR EQUIVALENT. THE ACCEPTABLE RESISTANCE MEASURED FOR THE GROUNDING SYSTEM WILL NOT EXCEED 5 OHMS RESISTANCE. THREE DISTANCES SHALL BE USED: 1 AT 100 FEET, 1 AT 70 FEET, AND 1 AT 35 FEET. THESE DISTANCES ARE SUBJECT TO A SITE BY SITE BASIS. T-MOBILE-WTS SHALL BE GIVEN 24 HOURS NOTICE. ALL COSTS ASSOCIATED WITH GROUND TESTING WILL BE AT THE EXPENSE OF THE CONTRACTOR.

TYPICAL SCHEMATIC GROUNDING PLAN

22x34 SCALE: 3/4" = 1'-0" 11x17 SCALE: 3/8" = 1'-0"

LEGEND

22x34 SCALE: NTS

GROUNDING NOTES

22x34 SCALE: NTS 11x17 SCALE: NTS

PLANS PREPARED BY:



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PROJECT INFO:

SE03314B

TOTEM LOCKE

12504 116TH AVENUE NE  
KIRKLAND, WA 98034  
KING COUNTY

ISSUED FOR:

CONSTRUCTION

REV: DATE: ISSUED FOR: BY:

1	08-10-20	REVISED RFDS	JRF
0	08-05-20	FINAL	DMO
A	06-15-20	PRELIMINARY	DMO

DRAWN BY: CHK.: APV.:

DMO	MWO	MWO
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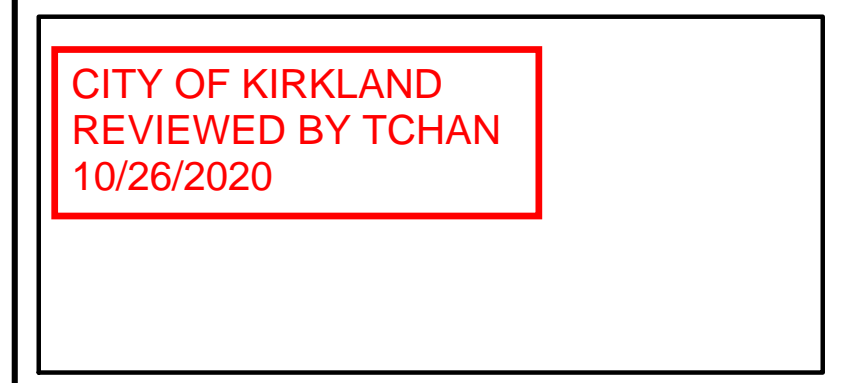
CURRENT ISSUE DATE:

08-10-20

LICENSURE:



JURISDICTIONAL APPROVAL:



PROPRIETARY INFORMATION:

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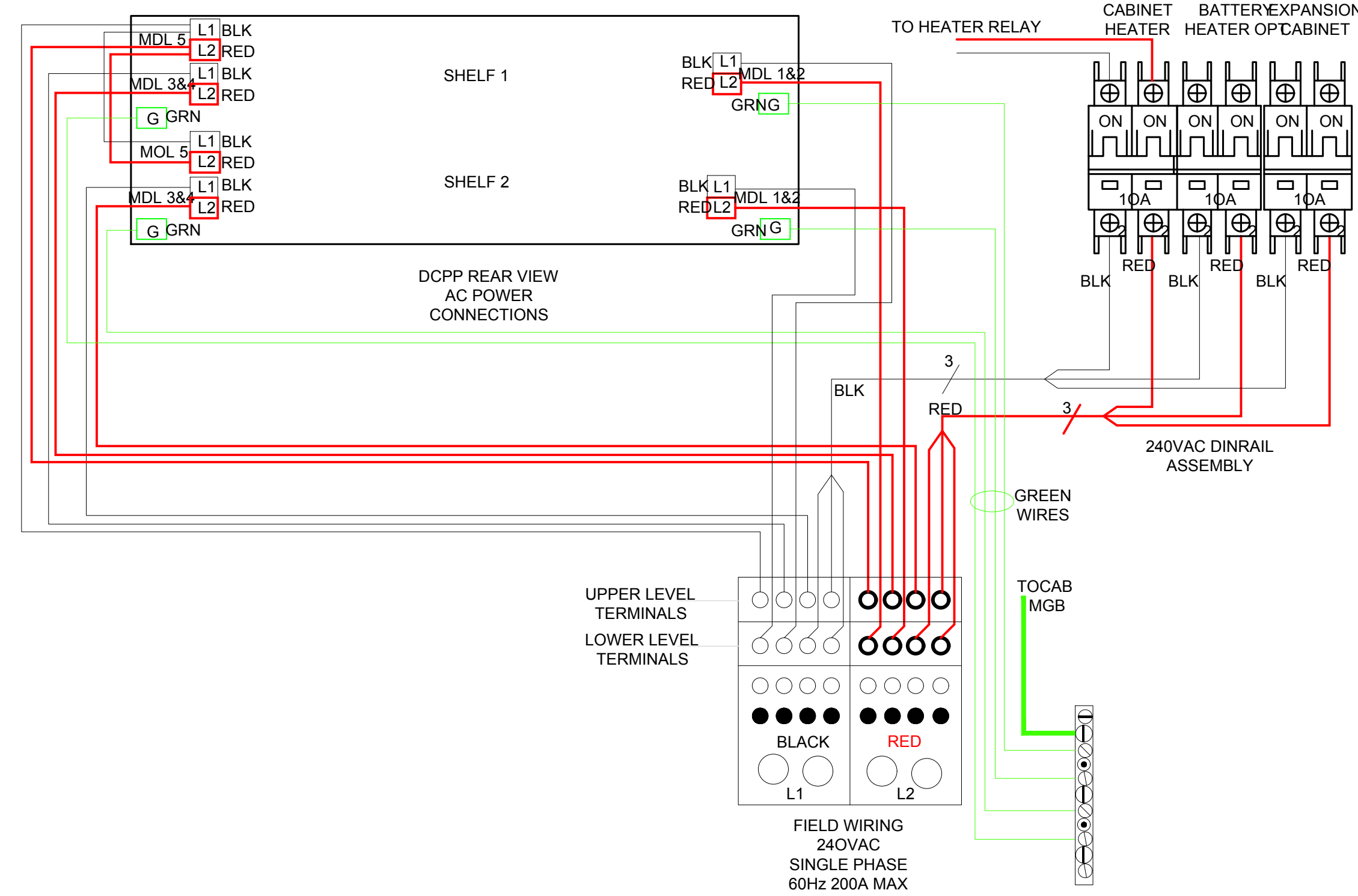
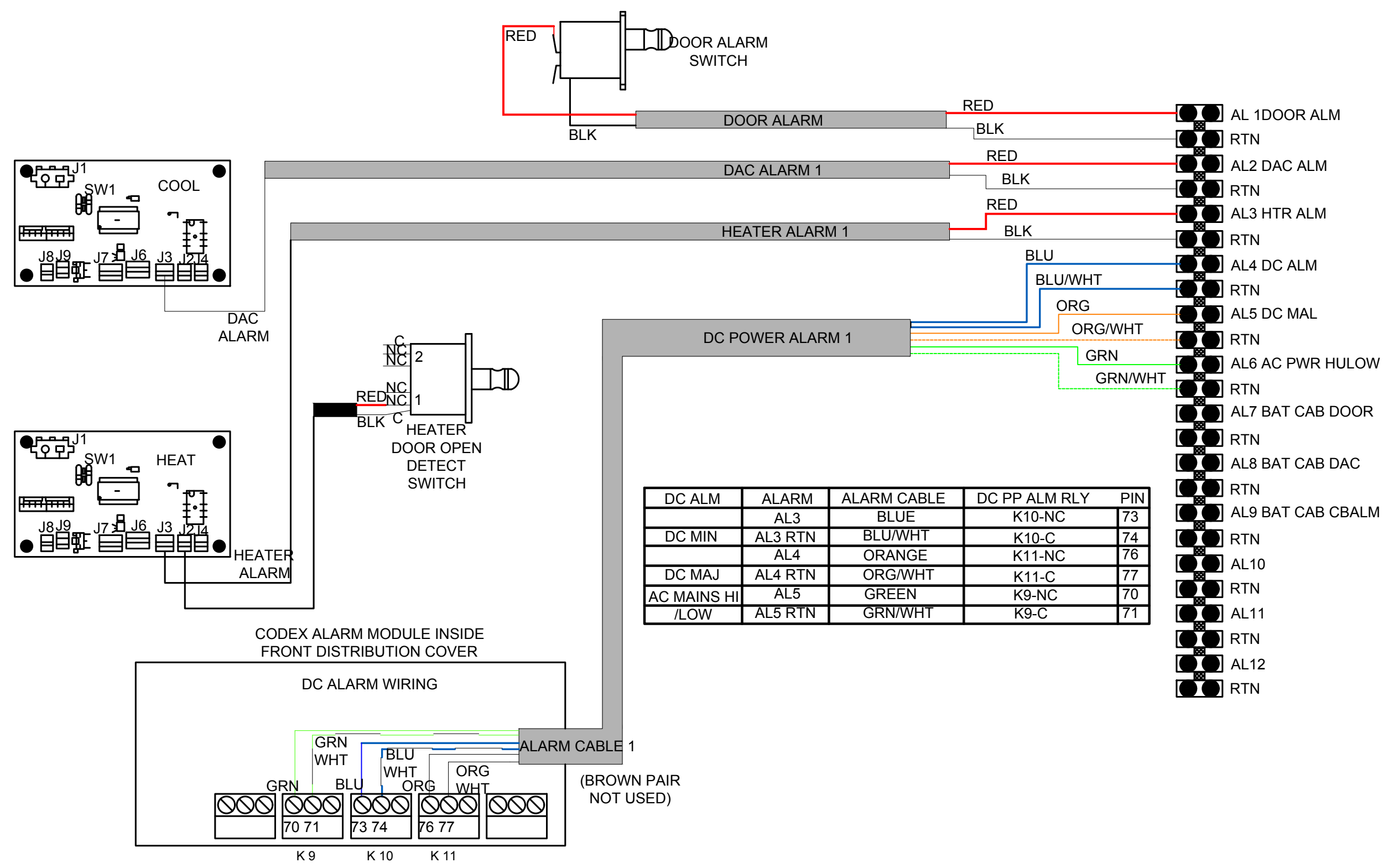
DRAWING TITLE:

ELECTRICAL DIAGRAMS

DRAWING NUMBER:

E-1.1 1

CEI JOB NUMBER: ANCHOR 20-06029



SKU# 33965 - ALARM WIRING DIAGRAM

22x34 SCALE: NTS

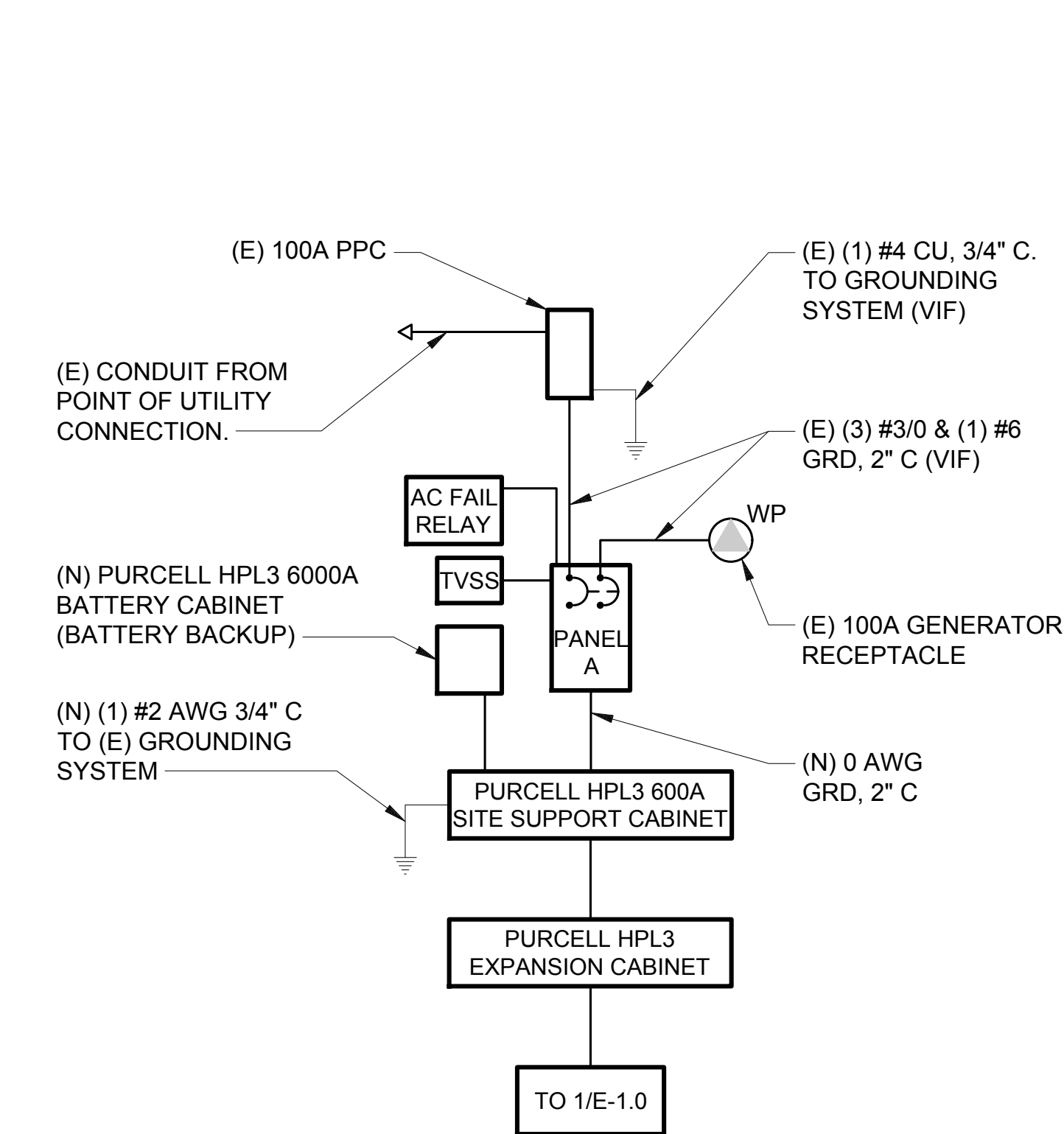
11x17 SCALE: NTS

4 SKU# 33965 - AC POWER WIRING DIAGRAM

22x34 SCALE: NTS

11x17 SCALE: NTS

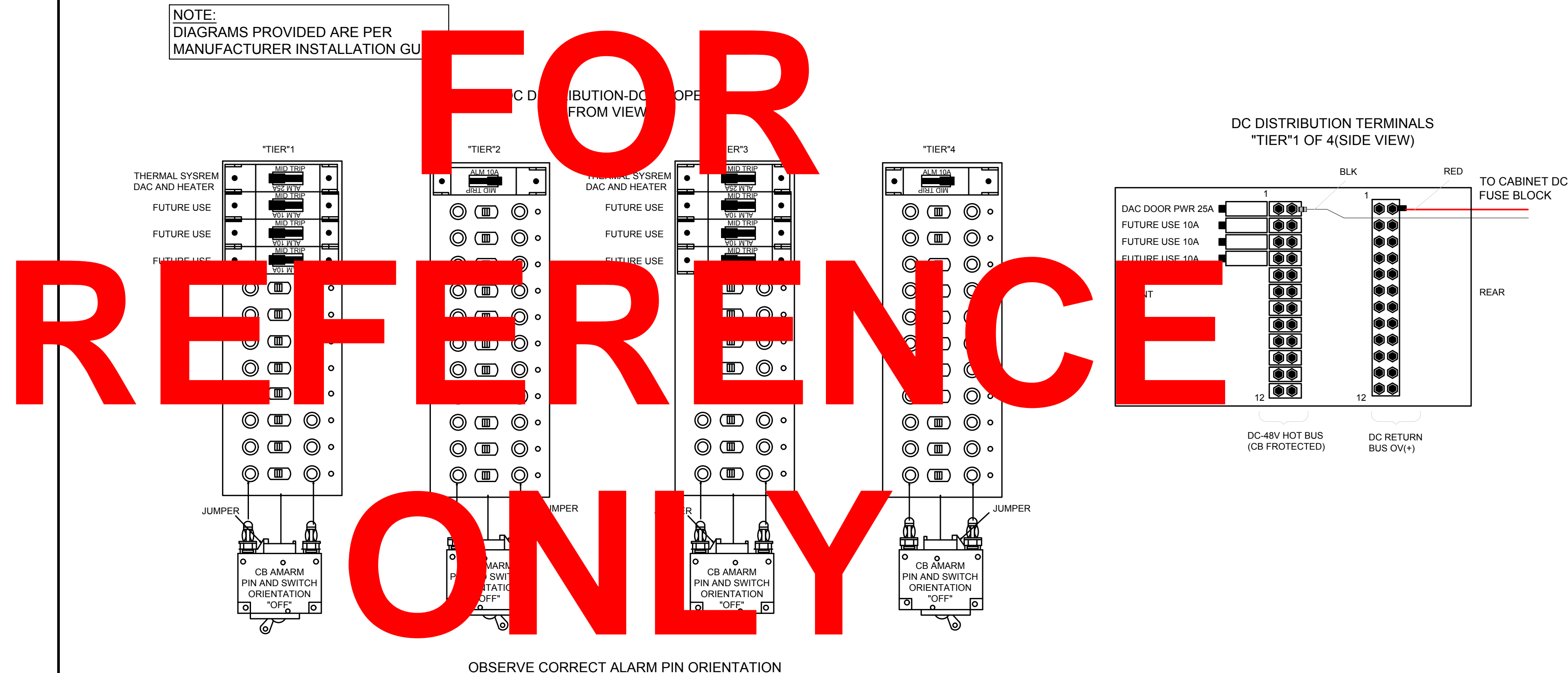
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SKU# 33965 - ONE-LINE DIAGRAM

22x34 SCALE: NTS

11x17 SCALE: NTS



2 SKU# 33965 - DC POWER WIRING DIAGRAM

22x34 SCALE: NTS

11x17 SCALE: NTS

1

CEI JOB NUMBER: ANCHOR 20-06029




ISSUED FOR: **CONSTRUCTION**

REV: DATE: ISSUED FOR: BY:

1	08-10-20	REVISED RFDS	JRF
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DRAWN BY: CHK.: APV.:  
 DMO MWO MWO

CURRENT ISSUE DATE: **08-10-20**

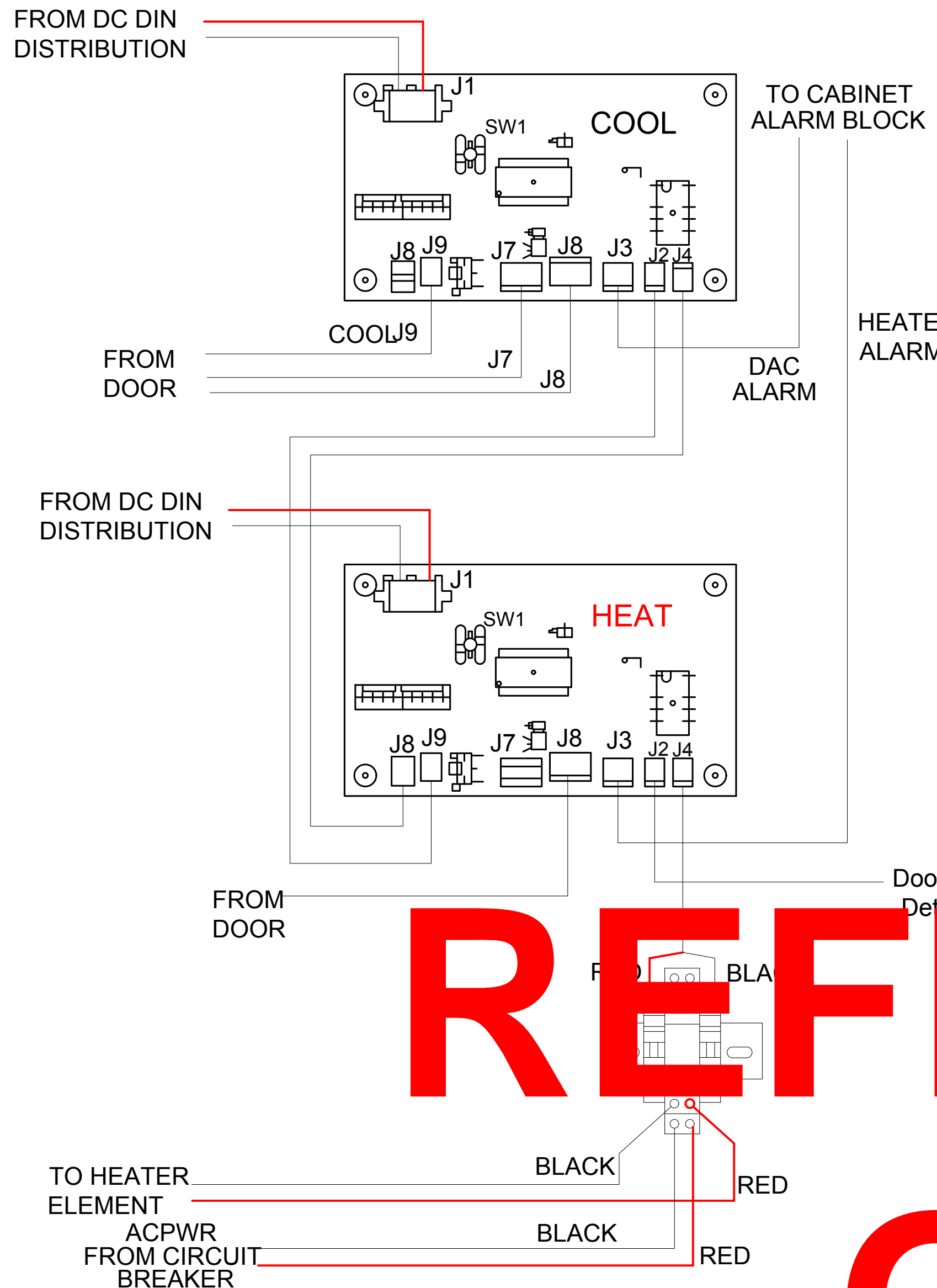
LICENSURE:  


JURISDICTIONAL APPROVAL:  
**CITY OF KIRKLAND**  
 REVIEWED BY TCHAN  
 10/26/2020

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DRAWING TITLE: **ELECTRICAL DIAGRAMS**

DRAWING NUMBER:  
**E-1.2** | **1**  
 CEI JOB NUMBER: ANCHOR 20-06029

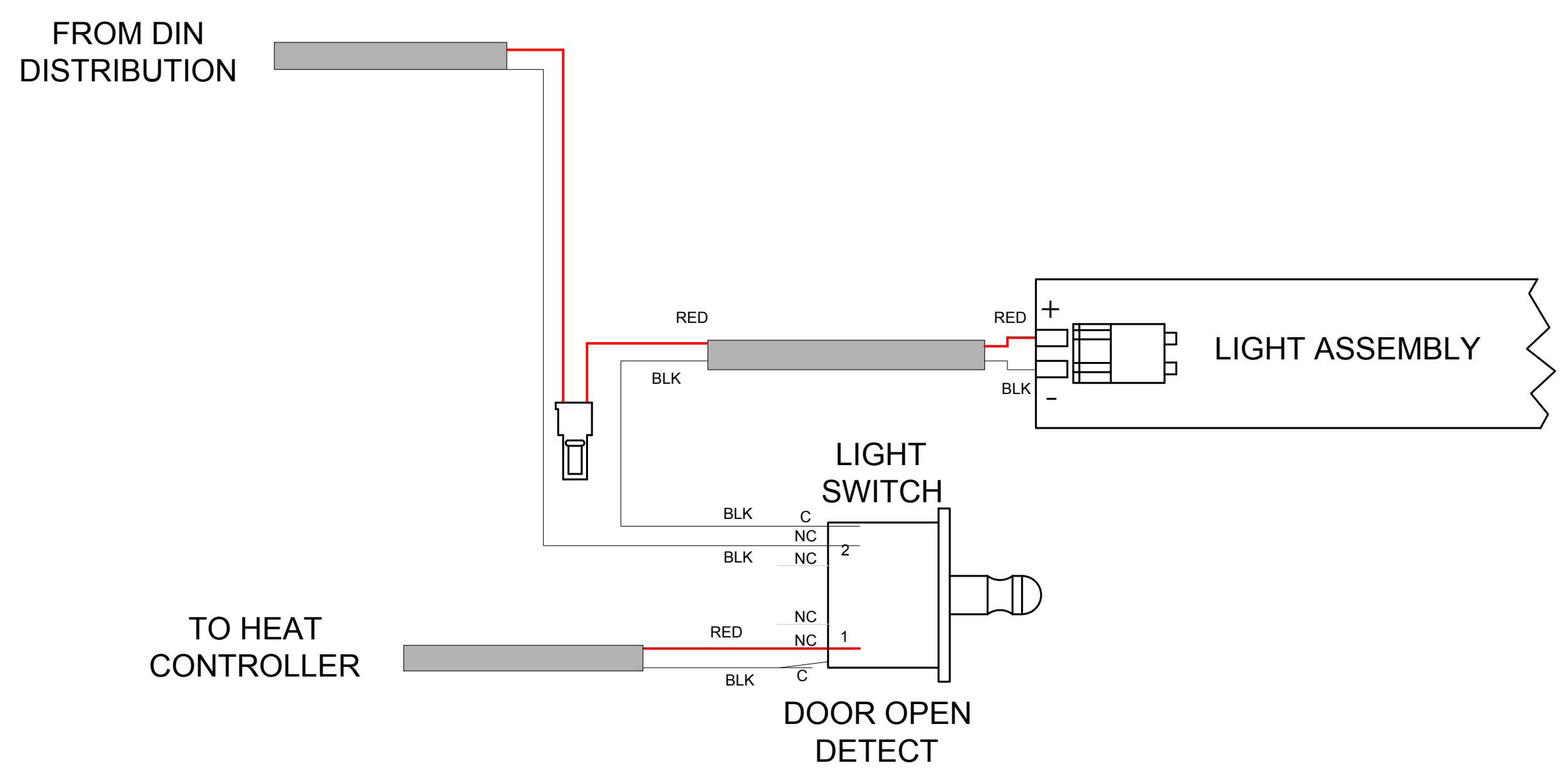


**DAC (COOLING) CONTROLLER**

COHN	FUNCTION
J1	PIWR IN
J8	DELTA T JUMPER
J9	OUTSIDE TEMPEATURE
J7	DACFAN (LOWER)
J6	DACFAN (UPPER)
J3	ALARM
J2	COOLING INHBIT
J4	HEAT REQUEST

**HEATER CONTROLLER**

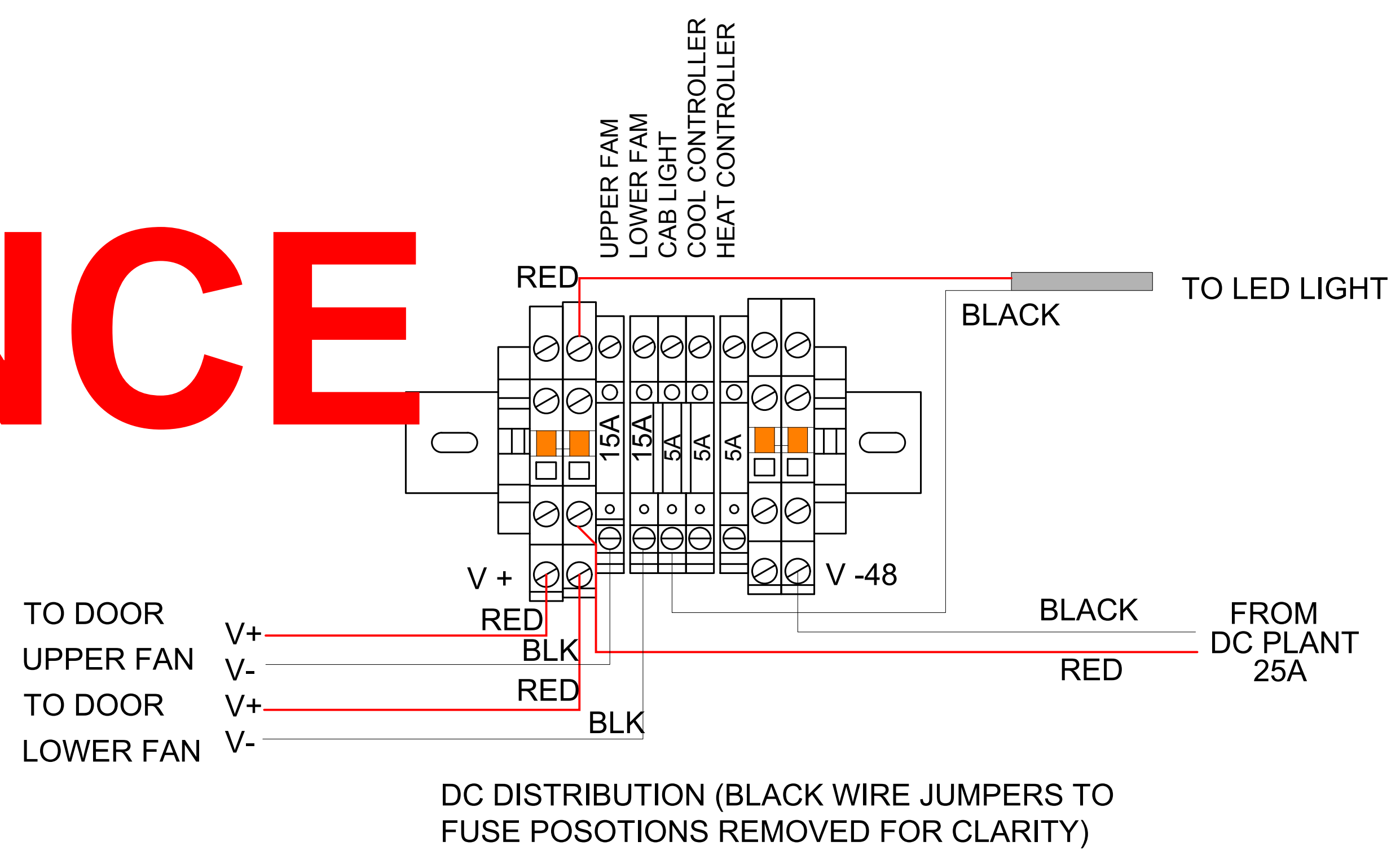
COHN	FUNCTION
J1	PIWR IN
J8	HEAT REQUEST
J9	COOLING INHBIT
J7	DELTA T JUMPER
J6	OUTSIDE TEMPERATURE
J3	ALARM
J2	DOOR SWITCH INPUT
J4	HEATER REALY CONTROL



**SKU# 33965 - DC CABINET DOOR LIGHT POWER WIRING DIAGRAM** 3

22x34 SCALE: NTS | 11x17 SCALE: NTS

**FOR REFERENCE ONLY**



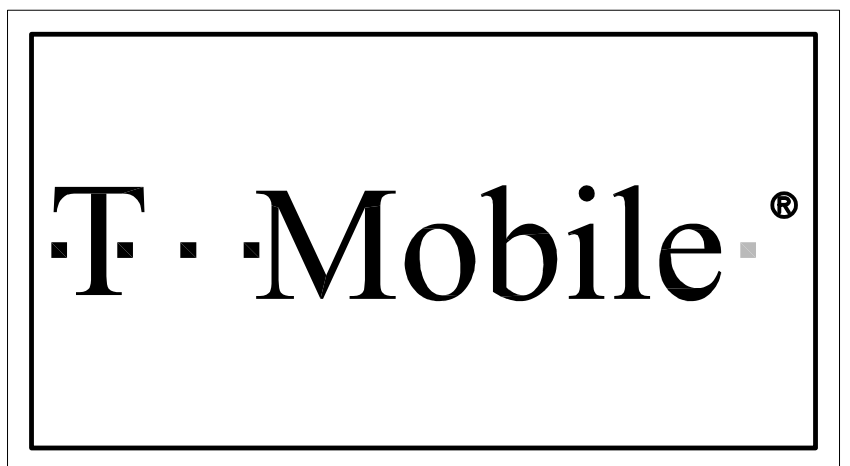
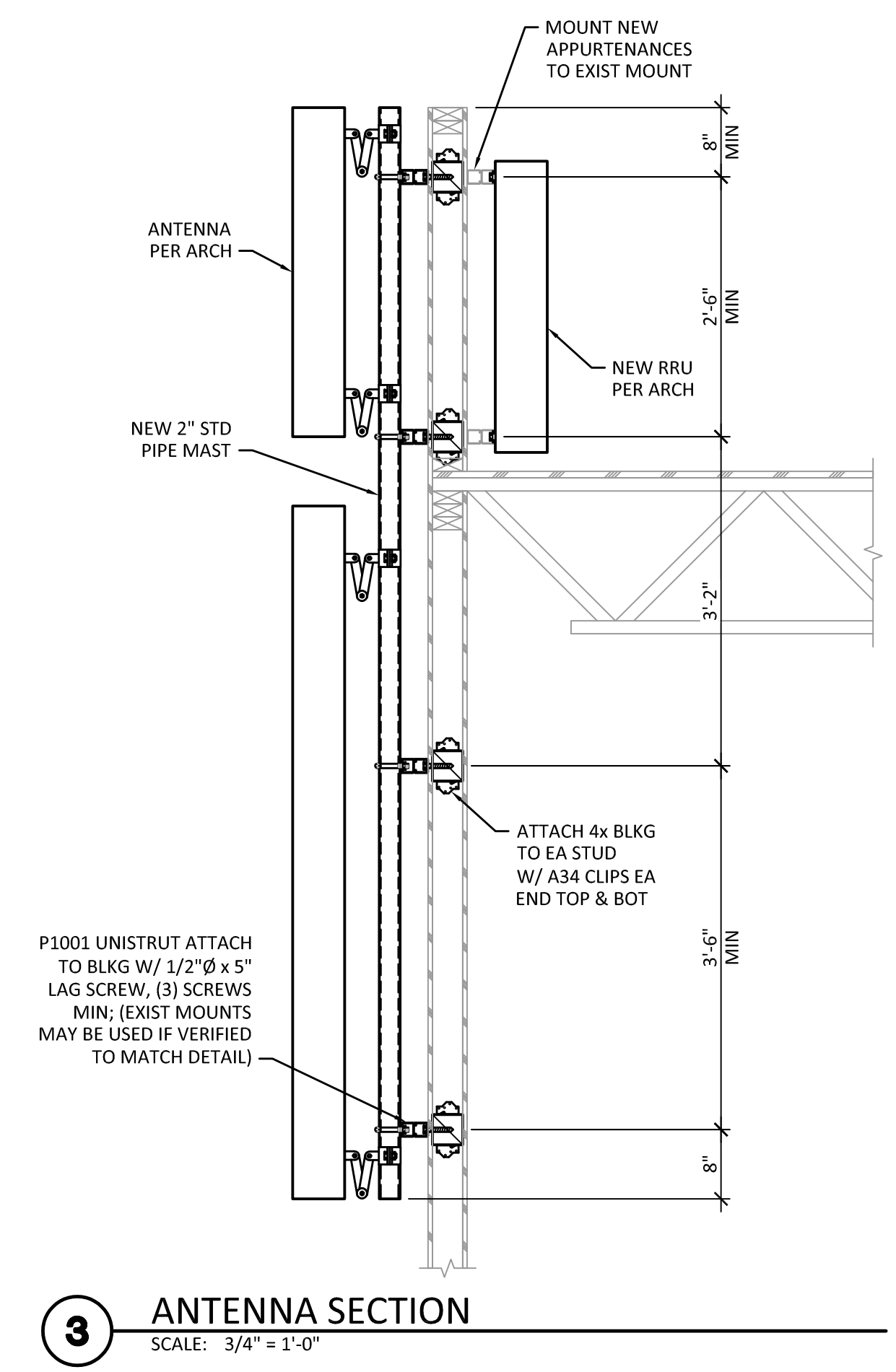
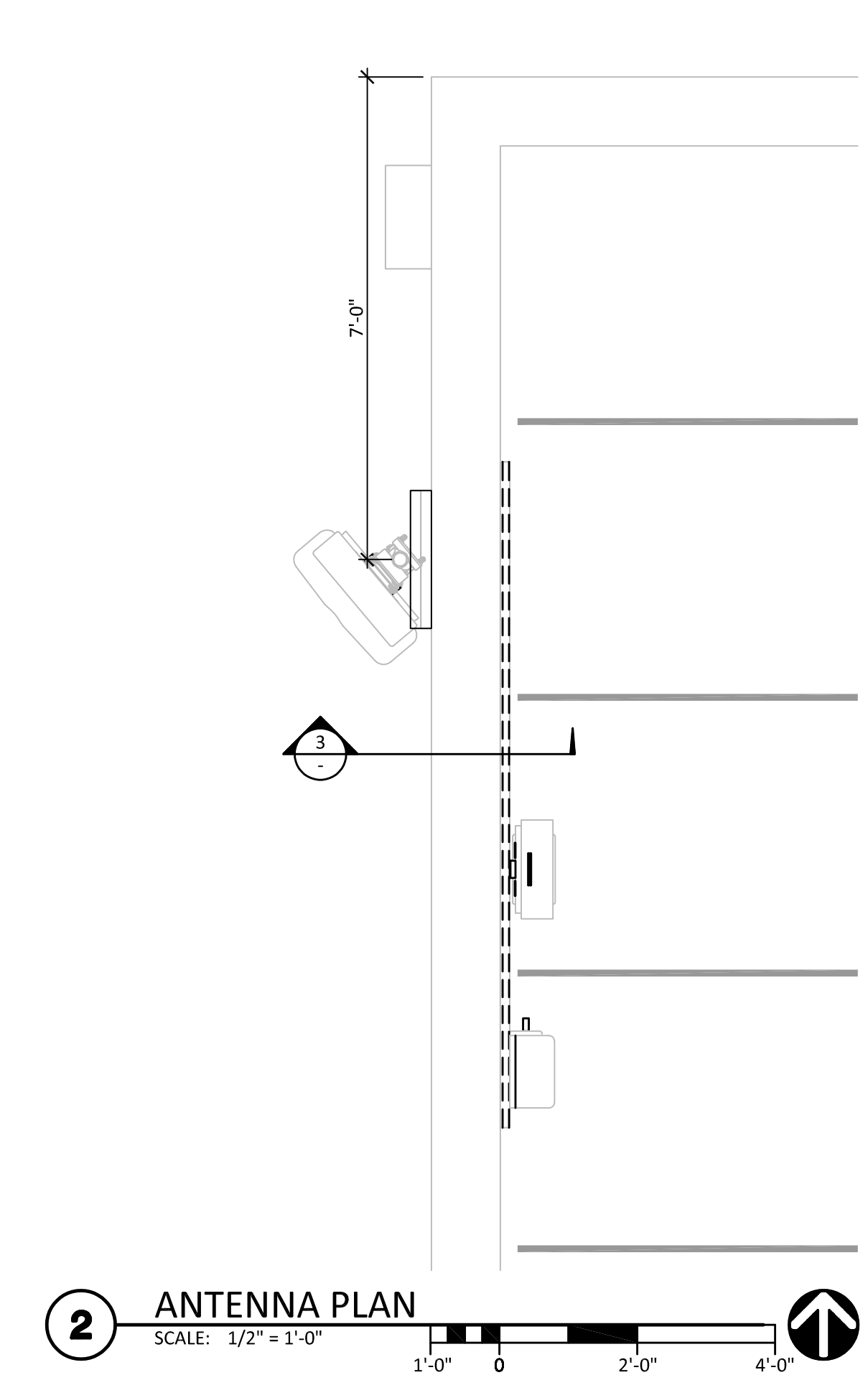
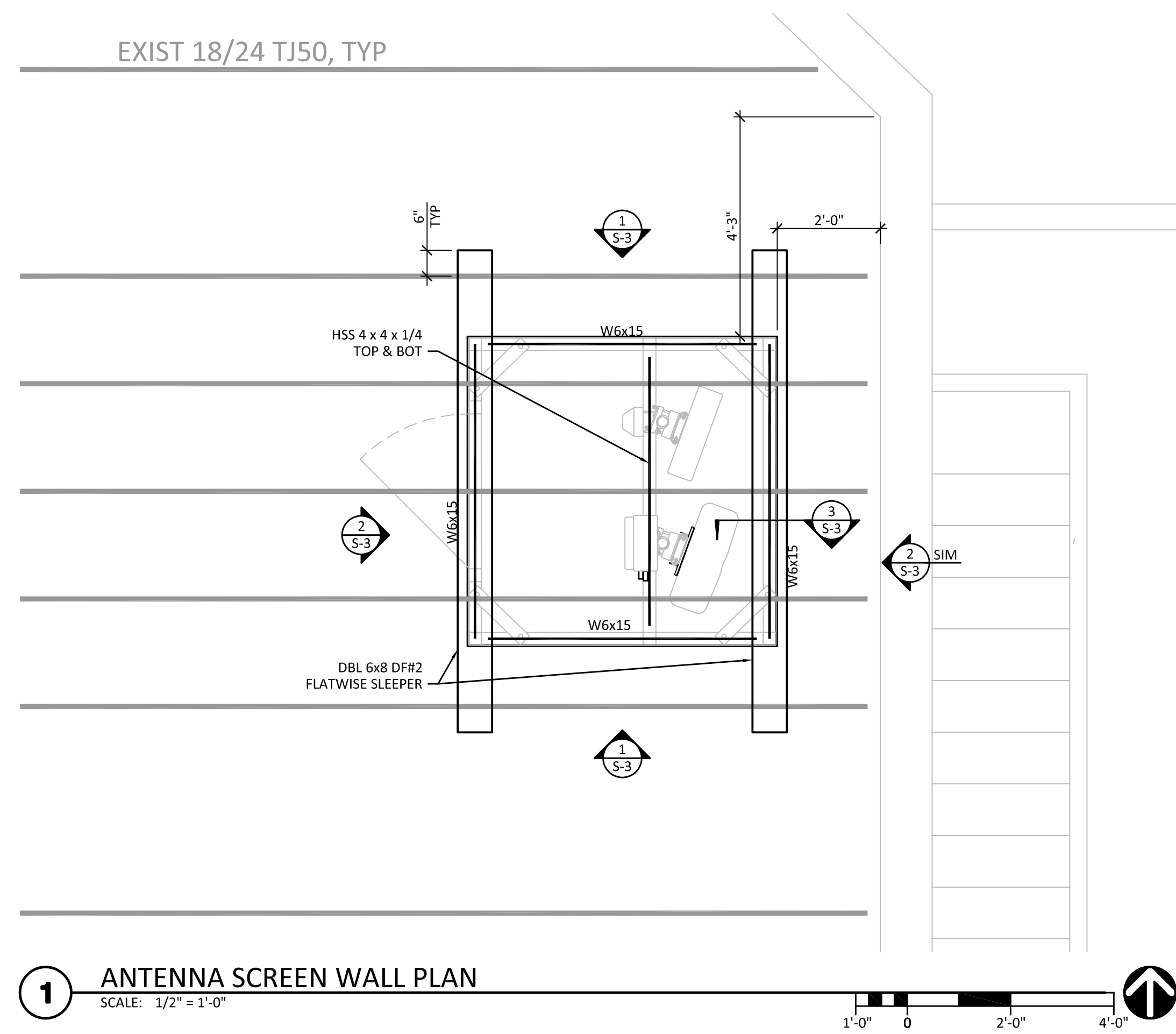
**SKU# 33965 - DC FUSE BLOCK WIRING DIAGRAM** 1

22x34 SCALE: NTS | 11x17 SCALE: NTS

**SKU# 33965 - DC HEATING AND COOLING WIRING DIAGRAM** 2

22x34 SCALE: NTS | 11x17 SCALE: NTS





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PHONE (425) 778-8500  
FAX (425) 778-5536

PROJECT INFO:

SE03314B

TOTEM LOCKE

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KIRKLAND, WA 98034  
KING COUNTY

ISSUED FOR:

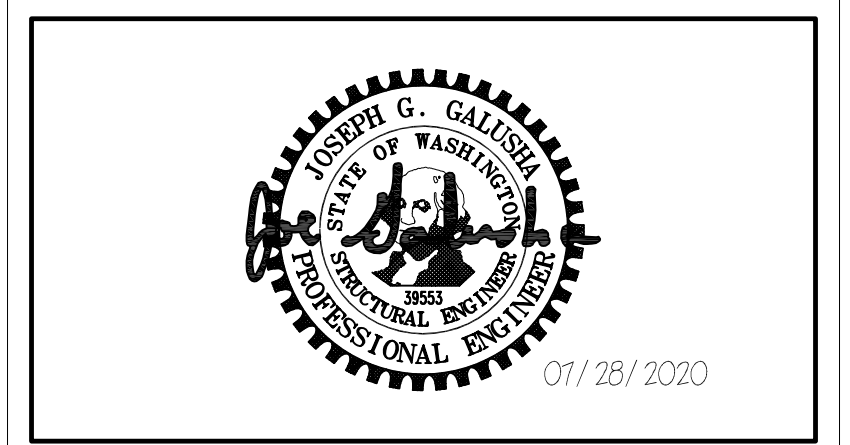
PERMIT SUBMITTAL

REV: - DATE: - ISSUED FOR: - BY:

07/28/20	PERMIT SUBMITTAL		CGP

DRAWN BY: JCP  
CHK: CGP  
APV.: DMT

CURRENT ISSUE DATE: 07/28/2020



JURISDICTIONAL APPROVAL:

CITY OF KIRKLAND  
REVIEWED BY TCHAN  
10/26/2020

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DRAWING TITLE:

ANTENNA FRAMING PLANS

DRAWING NUMBER:

S-2 0

CEI JOB NUMBER: ANCHOR 20-06029

PLANS PREPARED BY:



PROJECT INFO:

SE03314B

TOTEM LOCKE

12504 116TH AVENUE NE  
KIRKLAND, WA 98034  
KING COUNTY

ISSUED FOR:

PERMIT SUBMITTAL

REV: DATE: ISSUED FOR: BY:

07/28/20	PERMIT SUBMITTAL	CGP

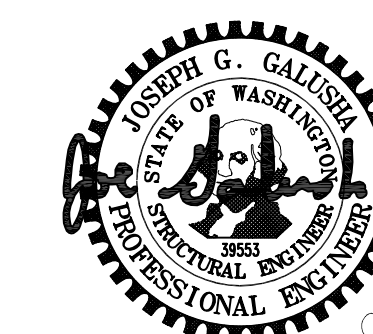
DRAWN BY: CHK.: APV.:

JCP CGP DMT

CURRENT ISSUE DATE:

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LICENSURE:



JURISDICTIONAL APPROVAL:

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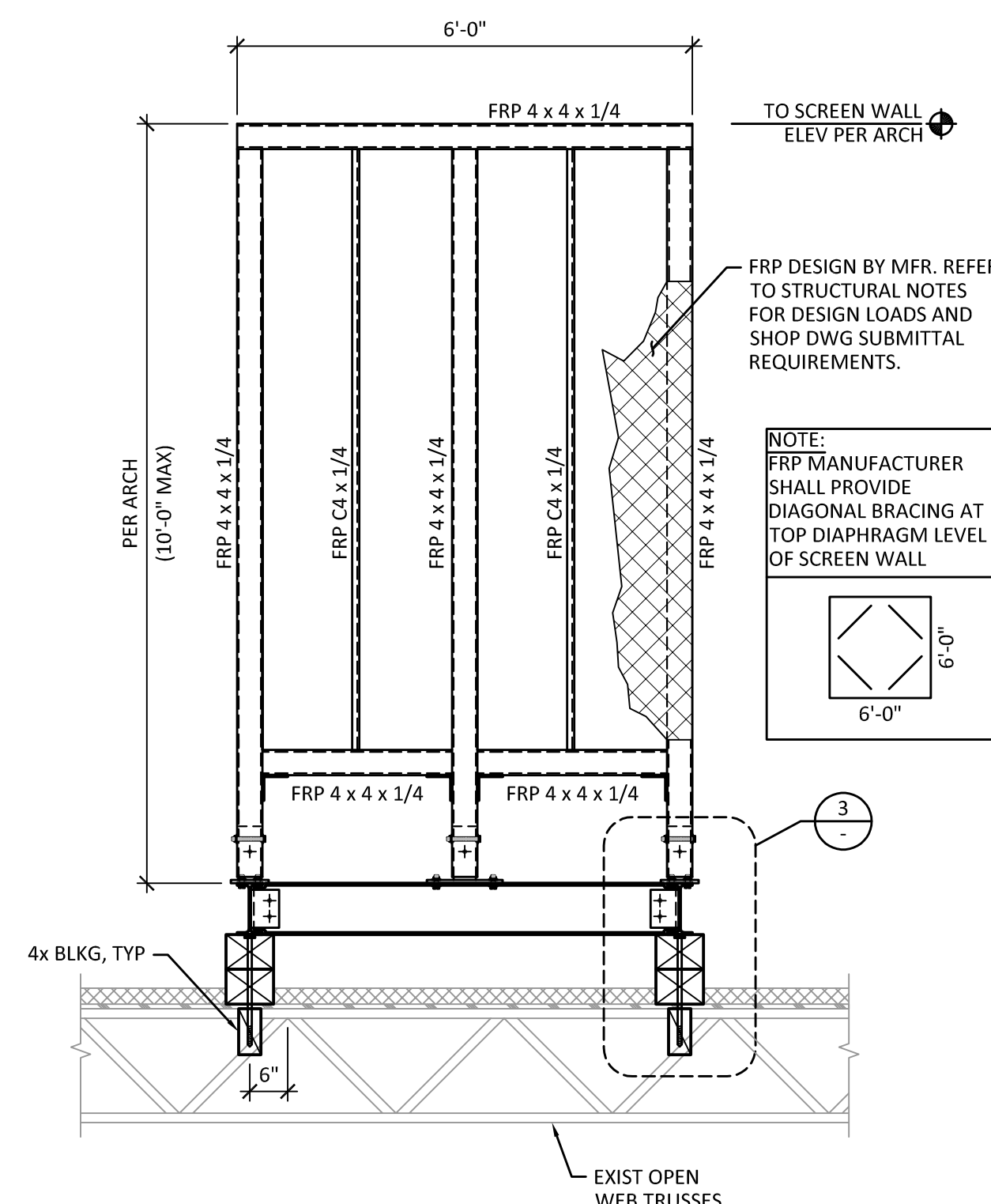
DRAWING TITLE:

STRUCTURAL DETAILS

DRAWING NUMBER:

S-3 0

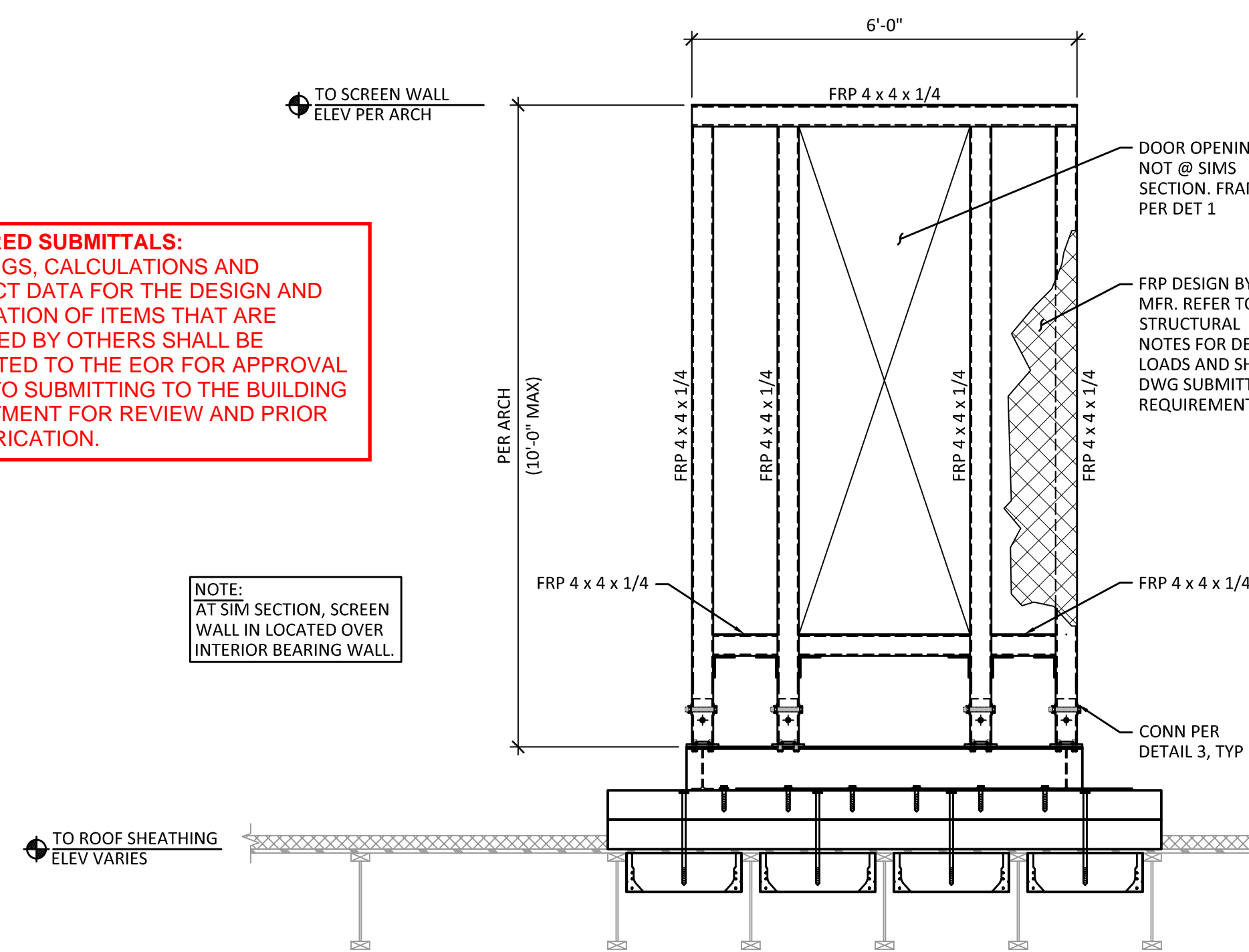
CEI JOB NUMBER: ANCHOR 20-06029



1 TYPICAL ELEVATION  
SCALE: 1/2" = 1'-0"

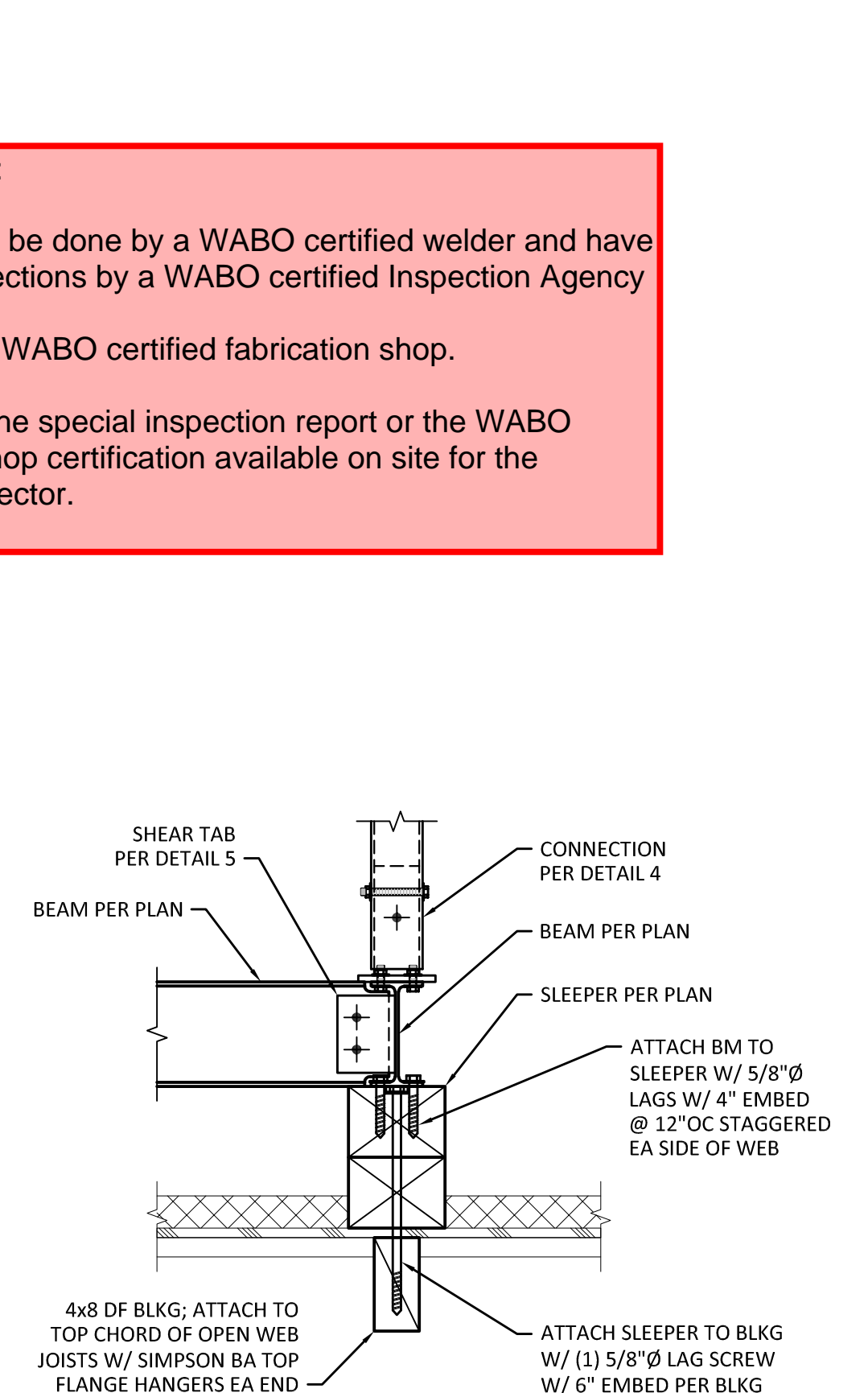
**DEFERRED SUBMITTALS:**  
DRAWINGS, CALCULATIONS AND PRODUCT DATA FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS SHALL BE SUBMITTED TO THE EOR FOR APPROVAL PRIOR TO SUBMITTING TO THE BUILDING DEPARTMENT FOR REVIEW AND PRIOR TO FABRICATION.

NOTE:  
AT SIM SECTION, SCREEN WALL IN LOCATED OVER INTERIOR BEARING WALL.

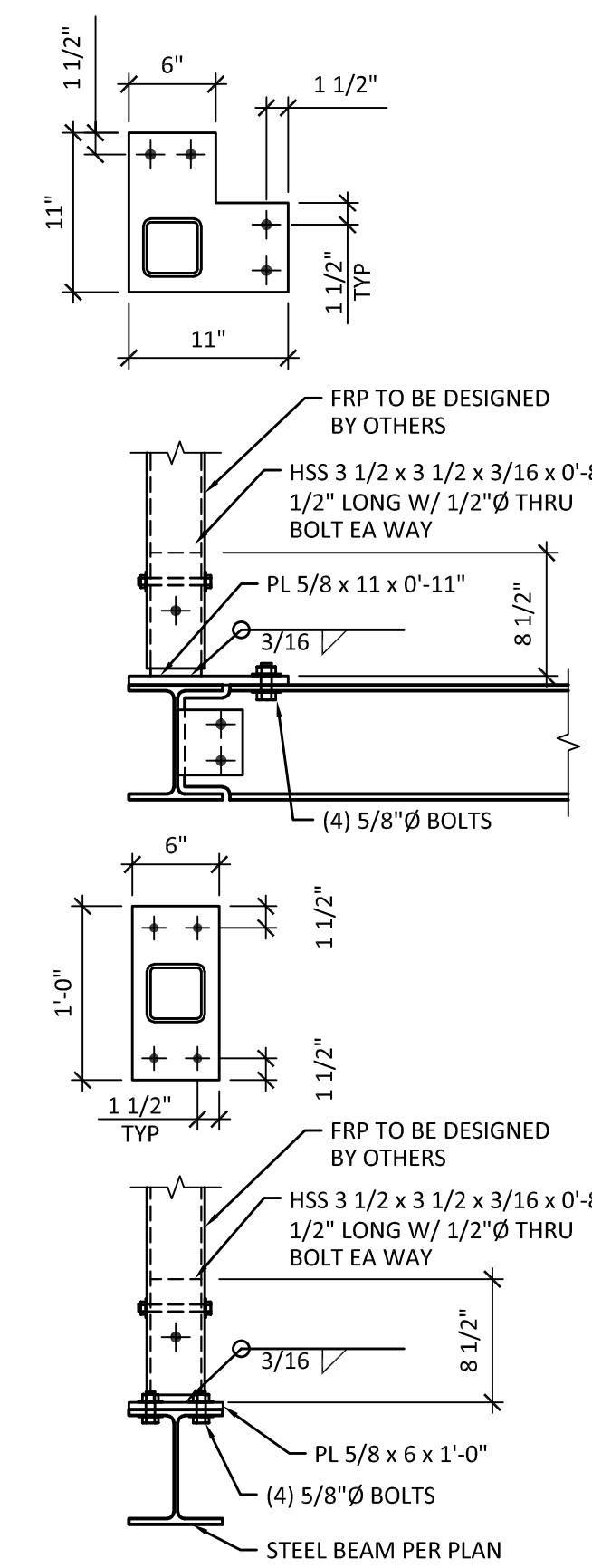


2 TYPICAL ELEVATION  
SCALE: 1/2" = 1'-0"

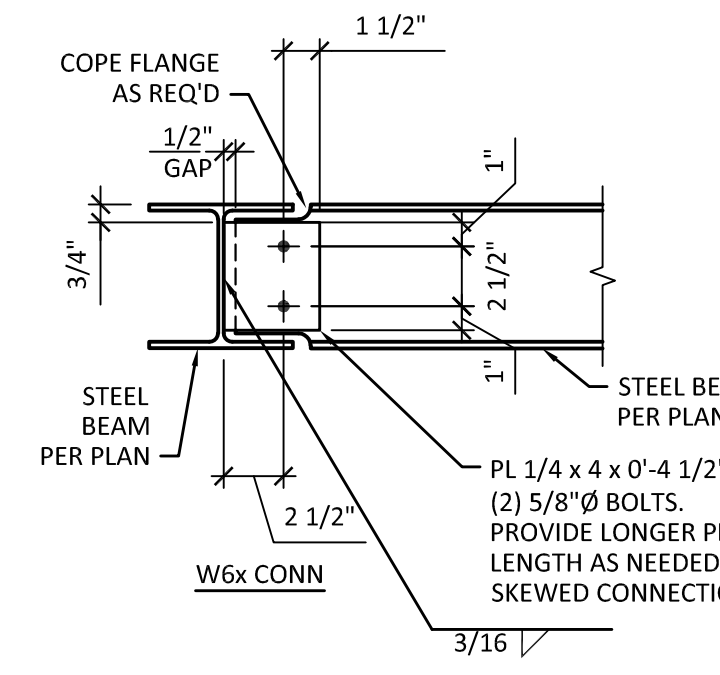
**ALL Welding:**  
Is required to be done by a WABO certified welder and have Special Inspections by a WABO certified Inspection Agency or Be done in a WABO certified fabrication shop.  
Have either the special inspection report or the WABO fabrication shop certification available on site for the Building Inspector.



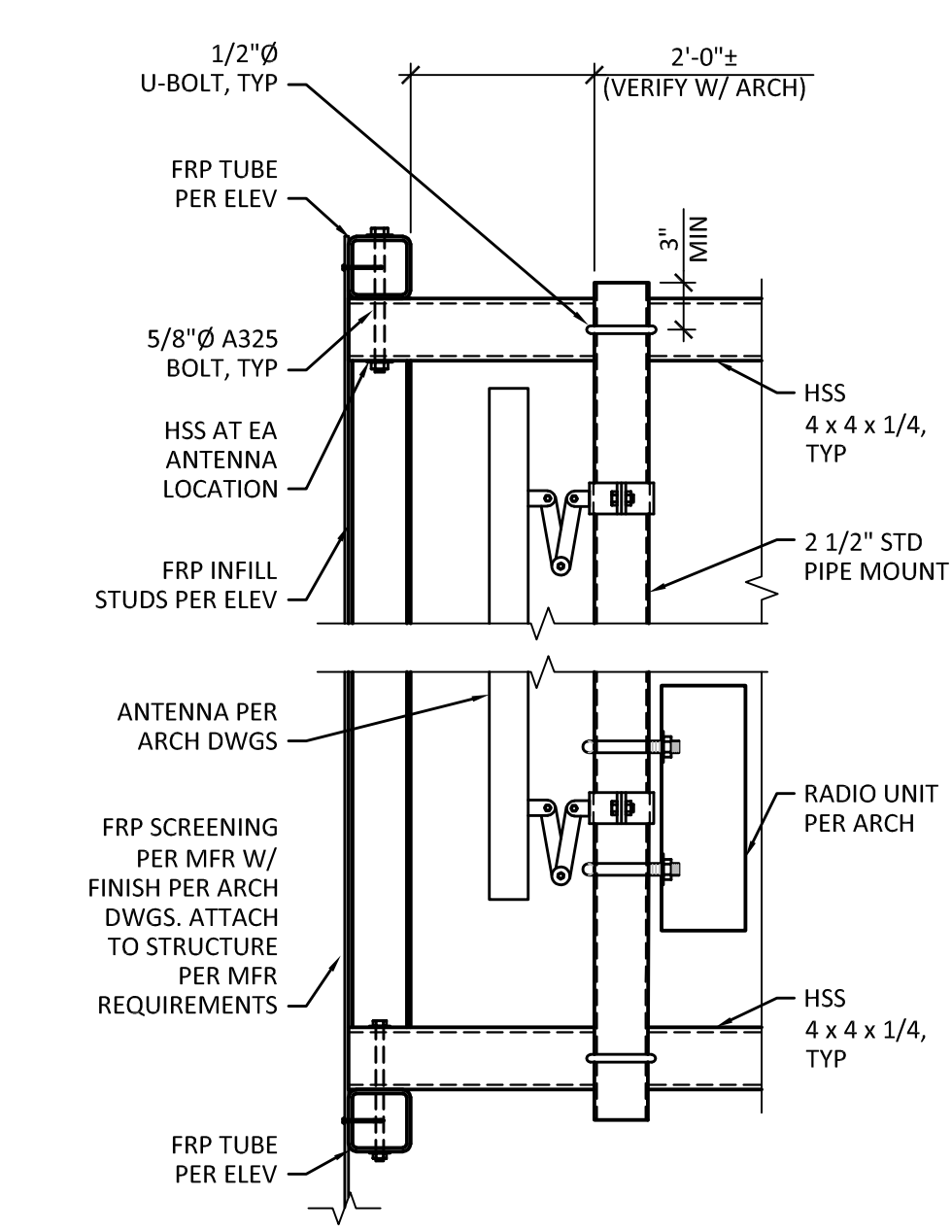
3 SECTION  
SCALE: 1" = 1'-0"



4 SECTION  
SCALE: 1" = 1'-0"



5 SHEAR PL CONN  
SCALE: 1 1/2" = 1'-0"



6 SECTION  
SCALE: 1" = 1'-0"