COUNTY OF MENDOCINO
DEPARTMENT OF PLANNING AND BUILDING SERVICES
860 NORTH BUSH STREET · UKIAH · CALIFORNIA · 95482
752 SOUTH FRANKLIN STREET · FT. BRAGG · CALIFORNIA · 95437

JULIA KROG, DIRECTOR
TELEPHONE: 707-234-6650
FAX: 707-463-5709
FB PHONE: 707-964-5379
FB FAX: 707-961-2427
pbs@mendocinocounty.gov
www.mendocinocounty.org/pbs

November 19, 2025

Department of Transportation
Environmental Health - Ukiah
Building Inspection - Ukiah
Assessor
Air Quality Management

Department of Forestry/ CalFire
-Land Use
Cloverdale Rancheria
Cahto Tribe

Redwood Valley Rancheria
Sherwood Valley Band of Pomo Indians
Round Valley Tribe
Little Lake Fire District

CASE#: AP_2025-0026
DATE FILED: 10/23/2025
OWNER: MATHIEU ANDRE
APPLICANT: Verizon Wireless C/O Complete Wireless Consulting
AGENT: Matt Moore
REQUEST: Administrative Permit to authorize an eligible facilities request for modifications to an existing wireless communication facility that includes the installation of twelve (12) antennas and the necessary ground equipment consisting of two equipment cabinets and a 30kw diesel generator at an existing wireless facility and within a fenced lease area.
ENVIRONMENTAL DETERMINATION: Categorically Exempt
LOCATION: 11.8± miles northwest of Willits City center, lying on the east side of Sherwood Road (CR 311), 2.7± miles south of its intersection with US 101, located at 35601 Sherwood Road, Willits, CA (APN: 036-110-01).
SUPERVISORIAL DISTRICT: 3
STAFF PLANNER: Marco Rodriguez
RESPONSE DUE DATE: December 03, 2025

PROJECT INFORMATION CAN BE FOUND AT:
www.mendocinocounty.org
Select "Government" from the drop-down; then locate Planning and Building Services/Public Agency Referrals.

Mendocino County Planning & Building Services is soliciting your input, which will be used in staff analysis and forwarded to the appropriate public hearing. You are invited to comment on any aspect of the proposed project(s). Please convey any requirements or conditions your agency requires for project compliance to the project coordinator at the above address, or submit your comments by email to pbs@mendocinocounty.org. Please note the case number and name of the project coordinator with all correspondence to this department.

We have reviewed the above application and recommend the following (please check one):

☐ No comment at this time.

☐ Recommend conditional approval (attached).

☐ Applicant to submit additional information (attach items needed, or contact the applicant directly, copying Planning and Building Services in any correspondence you may have with the applicant)

☐ Recommend denial (Attach reasons for recommending denial).

☐ Recommend preparation of an Environmental Impact Report (attach reasons why an EIR should be required).

☐ Other comments (attach as necessary).

REVIEWED BY:

Signature _____ Department _____ Date _____

CASE: AP_2025-0026

OWNER: MATHIEU ANDRE

APPLICANT: Verizon Wireless C/O Complete Wireless Consulting

AGENT: Matt Moore

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APN/S: 036-110-01

PARCEL SIZE: 370±

GENERAL PLAN: Rangeland 160 Acre Minimum (RL:160)

ZONING: Rangeland 160 Acre Minimum (RL:160)

EXISTING USES: Wireless Communication Facility, Residential/Agricultural/Commercial

DISTRICT: 3 (Haschak)

RELATED CASES: UM_2004-0004(Add nine (9) panel antennas); UM_2009-0011(Cell Tower); UM_2011-0005(Cell tower modification); AP_2014-0015(Cell tower modification); AP_2014-0029(Antenna); V_1997-0004(Cell tower height); AP_2018-0059(Replace antenna); BU_2009-0536(Addition to existing cell tower); BU_2015-0075(Replace antennas on existing cell tower); BU_2015-0089 (Remove and replace antennas); UR_2019-0007 (Cell Tower Use Permit Renewal); AP_2019-0044 (Replace three (3) existing dual antennas with three (3) new octo antennas; adding three (3) new radio units; and adding one (1) new microwave dish); AP_2020-0038 (Install one (1) Generac™ 25 kW diesel generator on a new 4’ 7” by 10’ 3” concrete slab along with a 240 gallon diesel fuel belly tank and including the installation of one automatic transfer switch and an 18 lb. portable fire extinguisher); BU_2021-0285 (Backup Generator); AP_2022-0020 (Replace six existing antennas with six new antennas that are slightly larger along with replacing one existing equipment cabinet with two new cabinets along with other appurtenant equipment); BU_2022-0964 (replace 6 antennas, install radios, other repairs cell site) AP 2022-0037 (install new equipment); BU_2022-0015 (install three (3) antennas, along with ancillary equipment and cabling); BP_2024-0195 (install a Starlink Dish); AP_2025-0001 (replace microwave dish with a larger unit and the addition of associated equipment); BP_2025-0273 (replace microwave dish with a larger unit and the addition of associated equipment).

REFERRAL AGENCIES

LOCAL
- ☒ Air Quality Management District
- ☒ Assessor’s Office
- ☒ Building Division (Ukiah)
- ☒ Department of Transportation (DOT)
- ☒ Environmental Health (EH)
- ☒ Little Lake Fire District

STATE
- ☒ CALFIRE (Land Use)

TRIBAL
- ☒ Cloverdale Rancheria
- ☒ Cahto tribe
- ☒ Redwood Valley Rancheria
- ☒ Sherwood Valley Band of Pomo Indians
- ☒ Round Valley Tribe

ADDITIONAL INFORMATION: Project site directly adjacent to Maacama Fault Zone**.**

STAFF PLANNER: MARCO RODRIGUEZ **DATE:** 11/19/2025

ENVIRONMENTAL DATA

1. MAC:
GIS
N/A

2. FIRE HAZARD SEVERITY ZONE:
CALFIRE FRAP maps/GIS
HIGH

3. FIRE RESPONSIBILITY AREA:
CALFIRE FRAP maps/GIS
CalFire/Little Lake Fire Protection District

4. FARMLAND CLASSIFICATION:
GIS
Grazing Land (G)

5. FLOOD ZONE CLASSIFICATION:
FEMA Flood Insurance Rate Maps (FIRM)
No

6. COASTAL GROUNDWATER RESOURCE AREA:
Coastal Groundwater Study/GIS
N/A

7. SOIL CLASSIFICATION:
Mendocino County Soils Study Eastern/Western Part
N/A

8. PYGMY VEGETATION OR PYGMY CAPABLE SOIL:
LCP maps, Pygmy Soils Maps; GIS
No

9. WILLIAMSON ACT CONTRACT:
GIS/Mendocino County Assessor's Office
No

10. TIMBER PRODUCTION ZONE:
GIS
No

11. WETLANDS CLASSIFICATION:
GIS
None

12. EARTHQUAKE FAULT ZONE:
Earthquake Fault Zone Maps; GIS
Yes – Maacama

13. AIRPORT LAND USE PLANNING AREA:
Airport Land Use Plan; GIS
No

14. SUPERFUND/BROWNFIELD/HAZMAT SITE:
GIS; General Plan 3-11
No

15. NATURAL DIVERSITY DATABASE:
CA Dept. of Fish & Wildlife Rarefind Database/GIS
None

16. STATE FOREST/PARK/RECREATION AREA ADJACENT:
GIS; General Plan 3-10
No

17. LANDSLIDE HAZARD:
Hazards and Landslides Map; GIS; Policy RM-61; General Plan 4-44
No

18. WATER EFFICIENT LANDSCAPE REQUIRED:
Policy RM-7; General Plan 4-34
No

19. WILD AND SCENIC RIVER:
www.rivers.gov (Eel Only); GIS
No

20. SPECIFIC PLAN/SPECIAL PLAN AREA:
Various Adopted Specific Plan Areas; GIS
No

21. STATE CLEARINGHOUSE REQUIRED:
Policy
No

22. OAK WOODLAND AREA:
USDA
No

23. HARBOR DISTRICT:
Sec. 20.512
N/A

PLANNING & BUILDING SERVICES

CASE NO:	
DATE FILED:	
FEE:	
RECEIPT NO:	
RECEIVED BY:	

Office Use Only

APPLICATION FORM

APPLICANT:

Name: Verizon Wireless C/O Complete Wireless Consul Phone: (916) 247-3047

Mailing Address: 2009 V Street ATTN: Matt Moore

City: Sacramento State/Zip: CA 95834 Email: MMoore@completewireless.net

PROPERTY OWNER:

Name: US Cellular Phone:

Mailing Address: 8410 West Bryn Mawr Avenue

City: Chicago State/Zip: IL 60631 Email: paul.mason@uscellular.com

AGENT:

Name: Matt Moore Phone: 916-247-3047

Mailing Address: 2009 V Street

City: Sacramento State/Zip: CA/95818 Email: Mmoore@completewireless.net

ASSESSOR'S PARCEL NUMBER/S: 036-110-01

PROPERTY ADDRESS: 35601 Sherwood Road, Willits, CA 95490

TYPE OF APPLICATION:

- ☒ Administrative Permit
- ☐ Agricultural Preserve: New Contract
- ☐ Agricultural Preserve: Cancellation
- ☐ Agricultural Preserve: Rescind & ReEnter
- ☐ Airport Land Use
- ☐ Development Review
- ☐ Exception
- ☐ Flood Hazard Development Permit
- ☐ General Plan Amendment
- ☐ Land Division – Minor
- ☐ Land Division – Major
- ☐ Land Division – Parcel
- ☐ Land Division – Re-Subdivision
- ☐ Modification of Conditions
- ☐ Reversion to Acreage
- ☐ Rezoning
- ☐ Use Permit – Cottage
- ☐ Use Permit – Minor
- ☐ Use Permit – Major
- ☐ Use Permit – Modification
- ☐ Variance
- ☐ Other

I certify that the information submitted with this application is true and accurate.

Signature of Applicant/Agent	*Date*	*Signature of Owner*	*Date*
	10/30/25	Please see attached LOA	

Form Ver. 071421

SITE AND PROJECT DESCRIPTION QUESTIONNAIRE

The purpose of this questionnaire is to relate information concerning your application to the Department of Planning and Building Services and other agencies who will be reviewing your project proposal. Please remember that the clearer picture that you give us of your project and the site, the easier it will be to promptly process your application. Please answer all questions. Those questions which do not pertain to your project please indicate "Not applicable" or "N/A".

THE PROJECT

1. Describe your project. Include secondary improvements such as wells, septic systems, grading, vegetation removal, roads, etc. If the proposal is for cancellation of a Williamson Act contract, please specify a proposed alternative use for the land.

This is a proposal to install twelve (12) antennas and the necessary ground on an existing 153'-1" tall wireless facility that is located at the above-referenced address. The antennas will be placed at a centerlines of 142'-7" and 139'-7" meaning that the overall height of the tower will not be increased, and the necessary ground equipment, consisting of two equipment cabinets and a 30kw diesel generator, which will all be placed within the existing wireless compound.

2. Structures/Lot Coverage	**NO. OF UNITS**		**SQUARE FOOTAGE**		
	EXISTING	**PROPOSED**	**EXISTING**	**PROPOSED**	**TOTAL**
☐ Single Family ☐ Mobile Home ☐ Duplex ☐ Multifamily ☒ Other: ☐ Other:					10,000 sqft wireless lease area, not to be expanded.
GRAND TOTAL (Equal to gross area of Parcel):					

3. Is the project commercial, industrial, or institutional? If yes, complete item 3. If no, skip to item 4.

Estimated No. of Employees per shift: N/A

Estimated No. of shifts per day: N/A

Type of loading facilities proposed: N/A

4. Will the project be phased? (Work being done over separate periods of time)

☒ **NO** ☐ **YES** If yes, explain your plans for phasing:

5. Will vegetation be removed on areas other than the building sites and roads?

☒ **NO** ☐ **YES** If yes, explain:

6. Will the project involve the use or disposal of potentially hazardous materials such as toxic substances, flammables, or explosives?

☐ **NO** ☒ **YES** If yes, explain:

A diesel fuel tank with a 147 gallon capacity is also being proposed.

7. How much off-street parking will be provided?

	Number	Size
No. of covered spaces:		
No. of uncovered spaces:		
No. of standard spaces:		
No. of accessible spaces:		
Existing no. of spaces:		
Proposed additional spaces:		
Total:		

8. Is any road construction or grading planned? If yes, grading and drainage plans may be required.

☒ **NO** ☐ **YES** Also, please describe the terrain to be traversed. (e.g., steep, moderate slope, flat, etc.)

9. For grading or road construction, complete the following:

Amount of cut: _____ cubic yards

Amount of fill: _____ cubic yards

Max. height of fill slope: _____ feet

Max. height of cut slope: _____ feet

Amount of import/export: _____ cubic yards

Location of borrow or disposal site: _____

10. Does the project involve sand removal, mining or gravel extraction? If yes, detailed extraction, reclamation and monitoring plans may be required.

■ **NO** ☐ **YES**

11. Will the proposed development convert land currently or previously used for agriculture to another use?

■ **NO** ☐ **YES**

12. Will the development provide public or private recreation opportunities?

■ **NO** ☐ **YES** If yes, explain how:

_____

_____

_____

_____

13. Is the proposed development visible from State Route 1 or other scenic route?

■ **NO** ☐ **YES**

14. Is the proposed development visible from a park, beach or other recreational area?

■ **NO** ☐ **YES**

15. Does the development involve diking, filling, dredging or placing structures in open coastal water, wetlands, estuaries or lakes?

Diking: ■ NO ☐ YES
Filling: ☐ NO ☐ YES
Dredging: ☐ NO ☐ YES
Structures: ☐ Open Coastal Waters ☐ Wetlands ☐ Estuaries ☐ Lakes

If so, what is the amount of material to be dredged/filled?: _____ cubic yards

Location of dredged material disposal site?: _____

Has a U.S. Army Corps of Engineers permit been applied for? ☐ NO ☐ YES

16. Will there be any exterior lighting?

■ **NO** ☐ **YES** If yes, describe below and identify the location of all exterior lighting on the plot and building plans.

_____

_____

_____

_____

17. Utilities will be supplied to the site as follows:

Electricity: ☐ Utility Company (service exists to parcel)
☐ Utility Company (requires extension of service to site): _____ feet _____ miles
■ On Site Generation – Specify:

Gas: ☐ Utility Company/Tank
☐ On Site Generation – Specify:
■ None

Telephone: ☐ NO ☐ YES

18. What will be the method of sewage disposal?

☐ Community Sewage System (specify supplier):_____

☐ Septic Tank

☐ Other (specify):_____

19. What will be the domestic water source:

☐ Community Water System (specify supplier): _____

☐ Well

☐ Spring

☐ Other (specify): _____

20. Are there any associated projects and/or adjacent properties under your ownership?

☒ **NO** ☐ **YES** If yes, list below (Assessor's Parcel Number, address, etc.)

21. List and describe any other related permits and other public approval required for this project, including those required by other County departments, city, regional, State and Federal agencies:

Building Permit approval will also be required.

22. Describe the location of the site in terms of readily identifiable landmarks: (e.g., mailboxes, mile posts, street intersections, etc.)

23. Are there existing structures on the property? If yes and the proposal is for a subdivision, describe below and identify the use of each structure on the plot plan or tentative map.

☐ **NO** ☒ **YES**

24. Will any existing structure be demolished or removed? If yes, describe the type of development to be demolished or removed, including the relocation site, if applicable.

☒ **NO** ☐ **YES**

25. What is the maximum height of all structures?

Existing: 151'-7" feet
Proposed: 148'-9" feet

26. What is the gross floor areas of all structures, including covered parking and accessory buildings?

Existing: 10,000 square feet
Proposed: 10,000 square feet

27. What is the total lot area within property lines?

Total Lot Area: TBD ■ acres ☐ square feet

28. Briefly describe the project site as it exists before the project, including information on existing structures and their uses, slopes, soil stability, plants and animals, and any cultural, historical or scenic aspects. Attach any photographs of the site that you feel would be helpful:

On-site conditions will not be impacted by this proposal.

29. Briefly describe the surrounding properties, including information on plants, animals and any cultural, historic or scenic aspects. Indicate the type of land use (use chart below) and its general intensity. Attach any photographs of the vicinity that you feel would be helpful.

Surrounding properties are all heavily forested an fall within the rangelands designation.

30. Indicate the surrounding land uses:

	Vacant	Residential	Agriculture	Commercial	Industrial	Public Facility	Timberland	Other
North:	☐	☐	☐	☐	☐	☐	☐	☑
East:	☐	☐	☐	☐	☐	☐	☐	☑
South:	☐	☐	☐	☐	☐	☐	☐	☑
West:	☐	☐	☐	☐	☐	☐	☐	☑

CERTIFICATION AND SITE VIEW AUTHORIZATION

1. I hereby certify that I have read this completed application and that, to the best of my knowledge, the information in this application, and all attached appendices and exhibits, is complete and correct. I understand that the failure to provide any requested information or any misstatements submitted in support of the application shall be grounds for either refusing to accept this application, for denying the permit, for suspending or revoking a permit issued on the basis of such misrepresentations, or for seeking of such further relief as may seem proper to the County.

2. I hereby grant permission for County Planning and Building Services staff and hearing bodies to enter upon and site view the premises for which this application is made in order to obtain information necessary for the preparation of required reports and render its decision.



Owner/Authorized Agent — Date: 10/20/2025

NOTE: IF SIGNED BY AGENT, OWNER MUST SIGN BELOW.

AUTHORIZATION OF AGENT

I hereby authorize Matthew Moore to act as my representative and to bind me in all matters concerning this application.

Please see the attached Letter of Authorization — Date: 10/20/2025

Owner — Date

MAIL DIRECTION

To facilitate proper handling of this application, please indicate the names and mailing addresses of individuals to whom you wish correspondence and/or staff reports mailed if different from those identified on Page 1 of the application form.

Name	**Name**	**Name**
Mailing Address	**Mailing Address**	**Mailing Address**

Indemnification And Hold Harmless

ORDINANCE NO. 3780, adopted by the Board of Supervisors on June 4, 1991, requires applicants for discretionary land use approvals, to sign the following Indemnification Agreement. Failure to sign this agreement will result in the application being considered incomplete and withheld from further processing.

Indemnification Agreement

As part of this application, applicant agrees to defend, indemnify, release and hold harmless the County of Mendocino, its agents, officers, attorneys, employees, boards and commissions, as more particularly set forth in Mendocino County Code Section 1.04.120, from any claim, action or proceeding brought against any of the foregoing individuals or entities, the purpose of which is to attack, set aside, void or annul the approval of this application or adoption of the environmental document which accompanies it. The indemnification shall include, but not be limited to, damages, costs, expenses, attorney fees or expert witness fees that may be asserted by any person or entity, including the applicant, arising out of or in connection with the approval of this application, whether or not there is concurrent, passive or active negligence on the part of the County, its agents, officers, attorneys, employees, boards and commissions.

10/20/2025	Cellco Partnership d/b/a Verizon Wireless, c/o Complete Wireless Consulting, Inc.
Date	Applicant

COUNTY OF MENDOCINO
DEPARTMENT OF PLANNING & BUILDING SVCS.

860 NORTH BUSH STREET • UKIAH, CALIFORNIA 95482
120 WEST FIR STREET • FORT BRAGG, CALIFORNIA 95437

JULIA KROG, DIRECTOR
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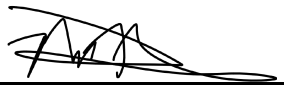
ACKNOWLEDGEMENT OF DEPOSIT/HOURLY FEE

By signing below, the applicant acknowledges that the staff at Planning and Building Services has discussed the potential for collection of a deposit fee for the projects listed below (as adopted by the Board of Supervisors Resolution No.'s 11-072, 16-150, 18-122, 19-170, 21-194 and 23-190)

1. Division of Land Project
2. General Plan Project
3. Coastal Project
4. Zoning Project
5. Administrative Project
6. Cannabis Project
7. Private Road Naming

Once an application has been submitted and the processing costs approach 80% of the application fee, additional staff processing time will be billed at ***$98.00/hour***. Staff will notify the applicant/owner that a deposit equal to 50% of the initial filing fee is required for further processing, and more than one deposit may be required depending on the complexity of the project and the staff time necessary to complete application processing.

I acknowledge that I was advised of the deposit fee for continued processing after the initial application fee has been expended.



Applicant Signature

10/20/2025
Date

OFFICE USE ONLY:

_____
Project or Permit Number

Verizon Wireless 60-Day Eligible Facility Request
Modification of Existing Wireless
Tower not in the Right-of-Way

Request Date: October 20, 2025

Jurisdiction: Mendocino County

Departments: Planning and Building Department

Site Address: 35601 Sherwood Road

Verizon Wireless Contact: Matt Moore, Complete Wireless Consulting, Inc.,

mmoore@completewireless.net, (916) 247-3047

This document serves as Verizon Wireless's eligible facilities request to modify an existing wireless tower 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 County 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 tower. 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 County to commence construction of the modification:

1. Planning Administrative Use Permit
2. Building permit

Verizon Wireless hereby requests that the County immediately provide a quote of application fees and payment options, which Verizon Wireless will pay promptly. Any delay by the County in quoting application fees or providing payment options will not toll today's commencement of the 60-day period.

Verizon Wireless's proposed facility will provide wireless communications services, including personal wireless services, to its customers in Mendocino County, as well as fixed wireless services for communication with other Verizon Wireless facilities, using frequencies licensed from the FCC. Antenna and equipment specifications, effective radiated power (ERP), and FCC compliance are described in the accompanying radio frequency compliance report by EBI consulting.

Project Description

Please note that this is a proposal to install ground and tower equipment on an existing facility that is located at the above-referenced address. The existing compound contains a

153'-1" lattice tower with existing wireless antennas at centerlines of 128'and 117', an equipment shelter, two backup generators, an equipment pad and a propane tank.

In order to maintain service in this area, Verizon Wireless proposes install new antennas on the existing lattice tower at a centerline of roughly 142'-7" and 139'-7" above ground level. Verizon is also proposing to install a 30kw backup diesel generator, two additional cabinets, all to be placed within the existing wireless compound. No additional changes are proposed for the modification and there will be no change to the overall height of the structure.

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 tower not in the right-of-way,[8] each followed by an explanation that the proposed modification does not exceed that threshold.

1) It increases the height of the tower by more than 10% or by the height of one additional antenna array with separation from the nearest existing antenna not to exceed twenty feet, whichever is greater.

   Verizon does not propose to increase the height of the facility. Please see the A-3.1 sheet of the attached site plans for additional details.

2) It involves adding an appurtenance to the body of the tower that would protrude from the edge of the tower more than twenty feet, or more than the width of the tower structure at the level of the appurtenance, whichever is greater.

Verizon's proposed antennas will be installed on temporary mounts attached directly to the lattice tower and will not extend more than 20' from the structure. Please see the A-3.1 sheet of the attached site plans for additional details.

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

Verizon is proposing to add two equipment cabinets, a backup generator, and a fuel tank. This does not exceed four cabinets, even if the generator is counted as a cabinet, and therefore complies with this requirement. Please see the A-1.1 sheet of the attached site plans for additional details.

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).

Verizon's proposed new equipment is contained within the existing US Cellular fenced compound and therefore complies with this requirement. Please see the A-.1 sheet of the attached site plans for additional details.

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

The existing facility consists of a 153'-1" tall lattice tower, and Verizon is not seeking to change this design or increase the height of the tower. Please see the A-3.1 sheet of the attached site plans for additional details.

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.

This proposal complies with all pre-existing conditions as required for an Eligible Facilities Request.

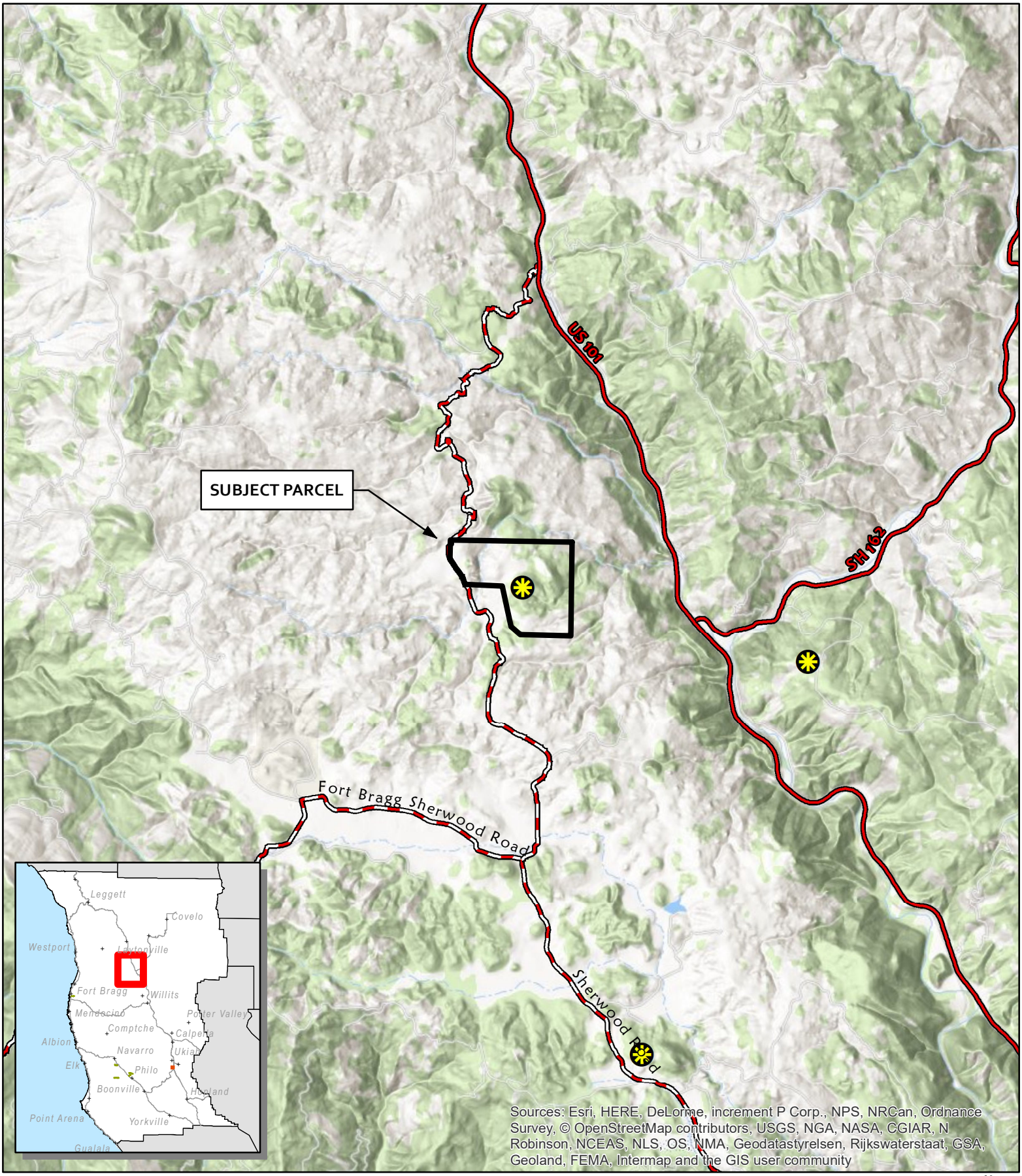
Verizon Wireless is providing a radio frequency exposure compliance report prepared by EBI Consulting that confirms that the temporary facility, as modified, will continue to comply with the FCC's radio frequency exposure limits.

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 tower.

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.

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[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 FCC 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).



Sources: Esri, HERE, DeLorme, increment P Corp., NPS, NRCan, Ordnance Survey, © OpenStreetMap contributors, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

CASE: AP 2025-0026
OWNER: Verizon Wireless
APN: 036-110-01
APLCT: US Cellular
AGENT: Matt Moore
ADDRESS: 35601 Sherwood Rd.

Highways
Major Roads
Approved Wireless Sites

0 2,800 5,600 Feet
0 0.5 1 Miles

N W E S

1:63,360

LOCATION

THIS MAP AND DATA ARE PROVIDED WITHOUT WARRANTY OF ANY KIND.
DO NOT USE THIS MAP TO DETERMINE LEGAL PROPERTY BOUNDARIES



CASE: AP 2025-0026
OWNER: Verizon Wireless
APN: 036-110-01
APLCT: US Cellular
AGENT: Matt Moore
ADDRESS: 35601 Sherwood Rd.

Public Roads

Approved Wireless Sites

0 380 760 Feet
0 0.05 0.1 Miles

N W E S

1:8,365.71

AERIAL IMAGERY

THIS MAP AND DATA ARE PROVIDED WITHOUT WARRANTY OF ANY KIND.
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verizon

REDWING TRAIL

35601 SHERWOOD ROAD, WILLITS, CA 95490
MDG LOCATION ID: 5000968098
PROJECT ID: 17393310

PROJECT DESCRIPTION

A (N) VERIZON WIRELESS COLOCATION TO (E) UNMANNED TELECOMMUNICATION FACILITY CONSISTING OF INSTALLING:

- (N) LEASE AREA W/ (N) GROUND MOUNTED CABINET INSIDE (E) US CELLULAR COMPOUND & (N) UTILITIES TO (N) SITE LOCATION
- (N) ANTENNAS & ANTENNA EQUIPMENT ON (E) LATTICE TOWER

PROJECT INFORMATION

SITE NAME:	REDWING TRAIL
MDG LOCATION ID:	5000968098
COUNTY:	MENDOCINO COUNTY
JURISDICTION:	MENDOCINO COUNTY
APN:	036-110-01
SITE ADDRESS:	35601 SHERWOOD ROAD WILLITS, CA 95490
CURRENT ZONING:	RL (RANGE LANDS)
CONSTRUCTION TYPE:	V-B
OCCUPANCY TYPE:	U (UNMANNED COMMUNICATIONS FACILITY)
POWER:	PG&E
LATITUDE:	N 39° 33' 32.1778" NAD 83 N 39.55893828° NAD 83
LONGITUDE:	W 123° 27' 20.5584" NAD 83 W 123.45571067° NAD 83
GROUND ELEVATION:	2466' AMSL

PROPERTY OWNER:	MATHIEU ANDRE 1/4 18135 SWEETWOOD CT. HIDDEN VALLEY LK, CA 95467
APPLICANT:	VERIZON WIRELESS 2770 SHADELANDS DR, BLDG 11 WALNUT CREEK, CA 94598
TOWER OWNER:	US CELLULAR 8410 WEST BRYN MAWR AVE CHICAGO, IL 60631
SITE ACQUISITION COMPANY:	COMPLETE WIRELESS CONSULTING 2009 V STREET SACRAMENTO, CA 95818
LEASING CONTACT:	ATTN: KIM LE (916) 747-2314 KLE@COMPLETEWIRELESS.NET
ZONING CONTACT:	ATTN: MATTHEW MOORE (916)-247-3047 MMOORE@COMPLETEWIRELESS.NET
CONSTRUCTION CONTACT:	ATTN: SEAN WALLIN (916) 591-8574 SWALLIN@COMPLETEWIRELESS.NET

DESIGN CRITERIA

RISK CATEGORY: II	ROOF LIVE LOAD: N/A	FLOOR LIVE LOAD: N/A	ALLOW SOIL BEARING: N/A
WIND EXPOSURE: C	DESIGN WIND SPEED: 92 MPH	GROUND ELEVATION: 2,465'	TOPOGRAPHIC CATEGORY: I
SEISMIC SITE CLASS: D	SEISMIC DESIGN CATEGORY: D	SEISMIC COMPONENT I_P: 1.0	a_p: 1.0 R_P: 2.5
S_{DS}: 1.896	S_{D1}: N/A	S_S: 2.37	S_1: 0.921

TESTS AND SPECIAL INSPECTIONS

STREAMLINE ENGINEERING & DESIGN, INC. DOES NOT REQUIRE ANY STRUCTURAL OBSERVATION OR SPECIAL INSPECTION OF ANY STRUCTURAL COMPONENT ABOVE & BEYOND WHAT IS LISTED BELOW UNLESS OTHERWISE REQUIRED BY JURISDICTION.

PROVIDE COMPLETE TESTING AND INSPECTIONS IN ACCORDANCE WITH THE CBC, CHAPTER 17 AS NOTED BELOW:

1. POST INSTALLED ANCHORS IN ACCORDANCE WITH CURRENT ICC REPORTS FOR THE SPECIFIED ANCHORAGES.

VICINITY MAP



CODE COMPLIANCE

ALL WORK & MATERIALS SHALL BE PERFORMED & INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

2022 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, VOLUMES 1&2, TITLE 24 C.C.R.
(2021 INTERNATIONAL BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
(2021 UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
(2021 UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2022 CITY OF SAN FRANCISCO FIRE CODE
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
2021 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
ANSI/EIA-TIA-222-H

ALONG WITH ANY OTHER APPLICABLE LOCAL & STATE LAWS AND REGULATIONS

DISABLED ACCESS REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. DISABLED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE BUILDING CODE, TITLE 24 PART 2, SECTION 11B-203.5

SHEET INDEX

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E-1.3	GROUNDING PLAN & DETAILS	-

Issued For:

REDWING TRAIL

35601 SHERWOOD ROAD
WILLITS, CA 95490

PREPARED FOR

verizon
2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

COMPLETE
Wireless Consulting, Inc.

MDG LOCATION ID:	5000968098
PROJECT ID:	17393310
DRAWN BY:	FS
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
3	10/15/25	CD 100%	J.Z.
2	09/23/25	CLIENT REV	S.D.
1	09/05/25	CD 95%	S.D.
0	06/13/25	CD 90%	S.D.

Licensee:

REGISTERED PROFESSIONAL ENGINEER
JAMES R. SPORE
S6336
STRUCTURAL
STATE OF CALIFORNIA

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

ENGINEER:

Streamline Engineering and Design, Inc.
3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

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SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1.1

PROJECT GENERAL NOTES

1. THIS FACILITY IS AN UNOCCUPIED WIRELESS TELECOMMUNICATION FACILITY.
2. PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE.
3. THE SCOPE OF WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
4. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, AND CONFIRM THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PAY FOR PERMIT FEES, AND TO OBTAIN SAID PERMITS AND TO COORDINATE INSPECTIONS.
6. THE CONTRACTOR SHALL RECEIVE, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
7. CALL BEFORE YOU DIG. CONTRACTOR IS REQUIRED TO CALL 811 (NATIONWIDE "CALL BEFORE YOU DIG" HOTLINE) AT LEAST 72 HOURS BEFORE DIGGING.
8. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
9. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. CONTRACTOR SHALL ALSO COORDINATE ALL PORTIONS OF THE WORK UNDER THE CONTRACT; INCLUDING CONTACT AND COORDINATION WITH THE CONSTRUCTION MANAGER AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE.
10. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, GALVANIZED SURFACES, ETC., AND UPON COMPLETION OF WORK, REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF THE PROJECT MANAGER.
11. KEEP GENERAL AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS AND RUBBISH. REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
12. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED, OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
13. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND ALL OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK SHALL BE PROTECTED AT ALL TIMES.
14. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
15. THE CONTRACTOR SHALL PROVIDE A TOILET FACILITY DURING ALL PHASES OF CONSTRUCTION.
16. SUFFICIENT MONUMENTATION WAS NOT RECOVERED TO ESTABLISH THE POSITION OF THE BOUNDARY LINES SHOWN HEREON. THE BOUNDARY REPRESENTED ON THIS MAP IS BASED ON COMPILED RECORD DATA AND BEST FIT ONTO EXISTING IMPROVEMENTS. IT IS POSSIBLE FOR THE LOCATION OF THE SUBJECT PROPERTY TO SHIFT FROM THE PLACEMENT SHOWN HEREON WITH ADDITIONAL FIELD WORK AND RESEARCH. THEREFORE ANY SPATIAL REFERENCE MADE OR SHOWN BETWEEN THE RELATIONSHIP OF THE BOUNDARY LINES SHOWN HEREON AND EXISTING GROUND FEATURES, EASEMENTS OR LEASE AREA IS INTENDED TO BE APPROXIMATE AND IS SUBJECT TO VERIFICATION BY RESOLVING THE POSITION OF THE BOUNDARY LINES.
17. THE CONTRACTOR TO VERIFY THE LATEST/CURRENT RF DESIGN.
18. WHERE APPLICABLE, CONTRACTOR SHALL PROVIDE SEPARATE PLANS, SPECIFICATIONS, FEES AND PERMITS FOR ANY REVISION TO ANY FIRE SPRINKLER AND/OR ALARM SYSTEM ON THE PREMISES AS MAY BE NEEDED TO COMPLETE THE WORK DEPICTED HEREIN, USING A LICENSED SUBCONTRACTOR FOR ALL SUCH WORK.

CONCRETE CORE/DRILLING NOTES

1. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED OR POST-TENSIONED REINFORCED CONCRETE (MILD REINFORCED), USE CARE & CAUTION TO AVOID CUTTING OR DAMAGING THE (E) REINFORCING BARS. WHEN INSTALLING ANCHORS INTO (E) PRE-STRESSED OR POST-TENSIONED CONCRETE LOCATE THE PRE-STRESSED OR POST-TENSIONED TENDONS BY USING A NON-DESTRUCTIVE METHOD, SUCH AS X-RAY, AT POINT OF PENETRATION, PRIOR TO INSTALLATION. EXERCISE EXTREME CARE & CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF TWO INCHES BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.
2. WHEN CORING EXISTING REINFORCED CONCRETE OF ANY CONSTRUCTION TYPE (PRE-STRESSED, POST-TENSIONED OR MILD REINFORCED), LOCATE THE EXISTING REINFORCING BY USING A NON-DESTRUCTIVE METHOD, SUCH AS X-RAY, PRIOR TO CORING. EXERCISE EXTREME CARE & CAUTION TO AVOID CUTTING OR DAMAGING ANY REINFORCING DURING CORING. MAINTAIN A MINIMUM CLEARANCE OF TWO INCHES BETWEEN REINFORCEMENT AND THE CORE. THE MAXIMUM SIZE OF ANY CORE IS TO BE 6" DIAMETER AND THE MINIMUM SPACING BETWEEN CORES IS TO BE TWICE THE CORE DIAMETER (I.E. 12" SPACING FOR A 6" DIAMETER CORE).
3. INSPECTOR IS TO BE PRESENT DURING ALL CORE DRILLING OPERATIONS TO VERIFY THAT NO REINFORCING CABLES, TENDONS, OR REBAR HAVE BEEN CUT. (SEE NOTE 5 BELOW)
4. THE INSPECTOR SHALL SUBMIT A WRITTEN REPORT TO THE OWNER.
5. THE INSPECTIONS INDICATED IN NOTES 3 AND 4 ABOVE ARE NOT REQUIRED FOR A CONCRETE FILL OVER METAL DECK APPLICATION WHERE INDICATED ON THE CONSTRUCTION DRAWINGS.

CONSTRUCTION NOTES

1. EXISTING BUILDING CONSTRUCTION CONDITIONS INDICATED ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO PROCEEDING WITH CONSTRUCTION OR ORDERING OF MATERIALS. IF EXISTING CONDITIONS DO NOT ALLOW FOR DETAILS OF CONSTRUCTION AS SHOWN ON THESE DRAWINGS, NOTIFY ENGINEER OF RECORD FOR RESOLUTION PRIOR TO PROCEEDING. CONTRACTOR SHALL EXPOSE AND REVIEW EXISTING CONDITIONS IN A TIMELY MANNER SUCH THAT ALTERNATE DESIGNS OR DETAILS, IF REQUIRED, MAY BE GENERATED WITHOUT DELAY TO THE PROJECT.
2. DURING CONSTRUCTION, THE CONTRACTOR SHALL NOT ALTER, DAMAGE OR REMOVE ANY PART OF THE EXISTING STRUCTURE UNLESS SPECIFICALLY DETAILED ON THESE DRAWINGS.
3. THE INTENT OF THESE DRAWINGS IS THAT THE WORK OF THE ADDITION, ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH THE 2022 CBC. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2022 CBC, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE PREPARED AND SUBMITTED TO AND APPROVED BY THE BUILDING DEPARTMENT PRIOR TO PROCEEDING WITH THE WORK.
4. ALL WORK AND MATERIALS SHOWN ARE NEW UNLESS INDICATED AS EXISTING (E).
5. IT MAY BE NECESSARY TO REMOVE ARCHITECTURAL FINISHES, PLUMBING PIPES AND FIXTURES, ELECTRICAL CONDUIT, FIXTURES, PANELS, BOXES, TELEPHONE OR FIRE ALARM WIRING AND FIXTURES OR OTHER NON-STRUCTURAL ITEMS TO INSTALL STRUCTURAL WORK AND MATERIALS SHOWN ON THESE DRAWINGS. SUCH ITEMS SHALL BE REMOVED, REPAIRED AND/OR REPLACED TO MATCH PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTORS EXPENSE.
6. ALL WEATHER PROOFING. INCLUDING BUT NOT LIMITED TO TORCH DOWN, CAULKING, Z-FLASHING OR ANY OTHER MATERIAL THAT MAY BE ALTERED DURING INSTALLATION SHALL BE REPAIRED REPLACED AND/OR MODIFIED TO ENSURE THE BUILDING AT THE INSTALLATION SITE IS WEATHER PROOF.
7. ANY PROPOSED SUBSTITUTIONS FOR STRUCTURAL MEMBERS, HARDWARE, ANCHOR TYPES, OR DETAILING INDICATED IN THESE DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ORDERING MATERIALS. SUCH REVIEW SHALL BE BILLED ON A TIME AND MATERIALS BASIS TO THE CONTRACTOR WITH NO GUARANTEE THAT THE SUBSTITUTION WILL BE ALLOWED.
8. CONTRACTOR SHALL ENSURE ALL ROOF AREAS HAVE POSITIVE SLOPE TO ALL EXISTING ROOF DRAINS. PROVIDE ADDITIONAL CRICKETS OR BUILD UP ROOFING AS REQUIRED TO PROVIDE POSITIVE DRAINAGE AROUND ALL NEW CONSTRUCTION INCLUDING ANY CURBS, SLEEPERS, SUPPORT BASES, ETC.

CONCRETE NOTES

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-19. CONCRETE MIX DESIGN SHALL BE REVIEWED BY AN INDEPENDENT TESTING LABORATORY AND SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW.
2. CONTRACTOR SHALL VERIFY SITE CONDITIONS & ALL DIMENSIONS PRIOR TO STARTING WORK. NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES FOR RESOLUTION PRIOR TO PROCEEDING.
3. ALL CONCRETE SHALL BE A MINIMUM 5 SACK MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.
4. CEMENT SHALL CONFORM TO ASTM C150, TYPE II.
5. CONCRETE AGGREGATES SHALL CONFORM TO ASTM C33.
6. ALL REINFORCING STEEL SHALL BE GRADE 60 AND CONFORM TO ASTM A615 UNLESS OTHERWISE NOTED. SEE PLAN FOR SIZE AND PLACEMENT.
7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064.
8. REINFORCING STEEL SHALL BE FABRICATED ACCORDING TO "MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION".
9. MINIMUM LAP SPLICE SHALL BE 56 BAR DIAMETERS UNLESS OTHERWISE NOTED.
10. MINIMUM BEND DIAMETER SHALL BE 6 BAR DIAMETERS UNLESS OTHERWISE NOTED.
11. MINIMUM REINFORCING COVERAGE IS 3" UNLESS OTHERWISE NOTED.
12. CONCRETE SHALL BE PLACED AGAINST FIRM UNDISTURBED NON EXPANSIVE SOIL AT DEPTH SHOWN. WHERE OTHER CONDITIONS ARE ENCOUNTERED DURING EXCAVATION THE ENGINEER SHALL BE NOTIFIED AND REMEDIAL MEASURES PRESCRIBED PRIOR TO PROCEEDING WITH WORK.
13. BOTTOM OF ALL FOOTING TRENCHES SHALL BE CLEAN AND LEVEL. REMOVE ALL DEBRIS BEFORE PLACING ANY CONCRETE.
14. ALL ANCHOR BOLTS & THREADED ROD SHALL BE ASTM F1554, GR.36 MINIMUM UNLESS OTHERWISE NOTED, NEW, & WITHOUT SIGNIFICANT RUST.
15. A ¾" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE UNLESS OTHERWISE NOTED.
16. REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE SECURELY POSITIONED BEFORE PLACING CONCRETE.
17. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY MOTORIZED VIBRATORY MEANS AND THOROUGHLY WORKED AROUND REINFORCEMENT, EMBEDDED ITEMS AND INTO CORNERS OF FORMS.

TRENCHING NOTES

1. CALL BEFORE YOU DIG. CONTRACTOR IS REQUIRED TO CALL 811 (NATIONWIDE "CALL BEFORE YOU DIG" HOTLINE) AT LEAST 72 HOURS BEFORE DIGGING.
2. VERIFY ALL TRENCHING REQUIREMENTS WITH SERVING UTILITIES.
3. RESTORE GRADE TO ORIGINAL CONDITION OR BETTER.
4. RETURN FILL TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM STANDARDS.
5. RESTORE CUT CONCRETE OR ASPHALT TO ORIGINAL CONDITION OR BETTER.

At all services & grounding trenches, provide " WARNING" tape at 12" below grade.

CALL "CALL BEFORE YOU DIG" 811

NATIONWIDE UNDERGROUND SERVICE ALERT

STRUCTURAL STEEL NOTES

1. ALL STEEL CONSTRUCTION INCLUDING FABRICATION, ERECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE 2016 AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2022 CBC.
2. ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) & WT (TEE) SHAPES TO BE ASTM A992 (F_Y=50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HSS) SHALL BE ASTM A500 GRADE C (F_Y=50,000 PSI FOR RECT HSS & F_Y=46,000 PSI FOR ROUND HSS PER AISC MANUAL TABLE 2-4) ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F_Y=35,000 PSI)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.
3. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES UNLESS OTHERWISE NOTED AND SHALL CONFORM TO AISC & AWS D1.4. WHERE FILLET WELD SIZES ARE NOT SHOWN PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC SPECIFICATION. PAINTED SURFACES SHALL BE TOUCHED UP.
4. ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
5. HIGH STRENGTH BOLTS SHALL BE GALVANIZED ASTM F3125/F3125M GRADE A325 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS.
6. HIGH STRENGTH BOLT NUTS SHALL BE ASTM A563/A563M AND WASHERS SHALL BE ASTM F436/ F436M.
7. THREADED RODS SHALL BE ASTM F1554, GR 36 U.O.N. BOLTED CONNECTIONS SHALL BE BEARING TYPE.
8. ALL HOLES FOR BOLTED CONNECTIONS SHALL BE 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE. HOLES FOR ANCHOR BOLTS IN BASE PLATES MAY BE AISC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDENED HOT DIPPED GALVANIZED WASHERS.
9. ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HOT DIP GALVANIZED PER ASTM A123 AFTER FABRICATION & PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED & PAINTED.
10. ALL FIELD FABRICATED GALVANIZED STEEL THAT IS CUT, GROUND, DRILLED, WELDED OR DAMAGED SHALL BE TREATED WITH "ZINC RICH" COLD GALVANIZING SPRAY OR COATING. NO RAW STEEL SHALL BE EXPOSED.
11. AT ALL WEB STIFFENER PLATES LEAVE ¾"ø (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.
12. U-BOLTS AT ANTENNA & RRU MOUNT TO BE GALVANIZED SAE J429, GRADE 2 WITH J995 NUTS U.O.N.
13. ALL STRUT MEMBERS USED IN EXTERIOR APPLICATIONS SHALL BE HOT DIPPED GALVANIZED PER ASTM A123 OR ASTM A153.
14. ALL STAINLESS STEEL BOLTED CONNECTIONS SHALL BE ASTM F593-17 ALLOY GROUP 1 OR 2 AND STAINLESS STEEL NUTS SHALL BE ASTM F594-09 (2015).

EXPANSION & EPOXY ANCHORS

1. EXPANSION AND EPOXY ANCHORS SHALL BE IN CONFORMANCE WITH ALL REQUIREMENTS OF THE 2022 CALIFORNIA BUILDING CODE (CBC).
2. ALL ANCHORS PROVIDED SHALL BE INCLUDED IN EVALUATION REPORTS OF THE INTERNATIONAL CODE COUNCIL (ICC), AND SHALL BE EVALUATED FOR 2021 IBC MINIMUM REQUIREMENTS IN THE ICC REPORT
3. CONCRETE EXPANSION ANCHORS SHALL BE KWIK BOLT TZ2 BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-4266 OR APPROVED EQUIVALENT.
4. CMU EXPANSION ANCHORS SHALL BE KWIK BOLT TZ2 BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-4561 OR APPROVED EQUIVALENT. ANCHORS SHALL BE INSTALLED A MINIMUM OF 1⅜" FROM ANY VERTICAL MORTAR JOINT TYPICAL. ANCHORS TO BE SPACED 8 INCHES ON CENTER MINIMUM AND LIMITED TO ONE ANCHOR PER CELL.
5. CONCRETE ADHESIVE EPOXY ANCHORS SHALL BE HIT RE-500 V3 BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-3814 OR APPROVED EQUIVALENT.
6. GROUT FILLED CMU ADHESIVE EPOXY ANCHORS SHALL BE HIT-HY 200 V3 BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-4878 OR APPROVED EQUIVALENT.
7. INSTALL EXPANSION AND EPOXY ANCHORS WITH SPECIAL INSPECTION IN ACCORDANCE WITH THE 2022 CBC, TABLE 1705.3, AND ALL REQUIREMENTS OF THE MANUFACTURER'S ICC APPROVAL AND THESE DRAWINGS.
8. EXPANSION ANCHORS SHALL BE 304/316 STAINLESS STEEL U.O.N. EPOXY ANCHOR THREADED ROD SHALL BE ASTM F593 CW1 (316) (¼" TO ⅝") OR F593 CW2 (316) (¾" TO 1½") STAINLESS STEEL U.O.N.
9. LOCATE AND AVOID REINFORCEMENT AND OTHER EMBEDDED ITEMS WHEN INSTALLING ANCHORS, TYPICAL. SEE CONCRETE CORE DRILLING NOTES FOR ADDITIONAL INFORMATION.
10. THE SPECIAL INSPECTOR MUST MAKE PERIODIC INSPECTIONS DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE AND DIMENSIONS, CONCRETE MEMBER THICKNESS, ANCHOR SPACING, EDGE DISTANCES, TIGHTENING TORQUE, HOLE DIAMETER, DEPTH AND CLEANLINESS, ANCHOR EMBEDMENT AND ADHERENCE TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. SEE NOTE 11 BELOW FOR FREQUENCY OF INSPECTIONS.
11. 50% OF ALL ANCHORS, INCLUDING ALTERNATE BOLTS IN A GROUP OF ANCHORS, SHALL BE INSPECTED PER NOTE 10 ABOVE AND TORQUE TESTED PER THE ICC REPORT TEST VALUES NOTED BELOW:

KB TZ2:

CONCRETE TORQUE TEST VALUES:
⅜"=30 FT LB ½"=40 FT LB ⅝"=60 FT LB ¾"=125 FT LB

CMU TORQUE TEST VALUES:
⅜"=15 FT LB ½"=25 FT LB ⅝"=35 FT LB ¾"=50 FT LB

EPOXY ANCHOR:

CONCRETE TORQUE TEST VALUES:
½"=30 FT LB
(CONCRETE TENSION TEST VALUES TO BE DETERMINED AS NEEDED. A RFI WILL BE ISSUED IF NEEDED DURING CONSTRUCTION TO ESTABLISH THE REQUIRED TENSION TEST VALUES)

Issued For:

REDWING TRAIL

35601 SHERWOOD ROAD
WILLITS, CA 95490

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

COMPLETE Wireless Consulting, Inc.

MDG LOCATION ID:	5000968098
PROJECT ID:	17393310
DRAWN BY:	FS
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
3	10/15/25	CD 100%	J.Z.
2	09/23/25	CLIENT REV	S.D.
1	09/05/25	CD 95%	S.D.
0	06/13/25	CD 90%	S.D.

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ENGINEER:

Streamline Engineering and Design Inc.
3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevyn Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

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SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

T-1.2

SIGNAGE AND STRIPING INFORMATION

1. THE FOLLOWING INFORMATION IS A GUIDELINE WITH RESPECT TO PREVAILING STANDARDS LIMITING HUMAN EXPOSURE TO RADIO FREQUENCY ENERGY AND SHOULD BE USED AS SUCH. IF THE SITE'S EMF REPORT OR ANY LOCAL, STATE OR FEDERAL GUIDELINES OR REGULATION SHOULD BE IN CONFLICT WITH ANY PART OF THESE NOTES OR PLANS, THE MORE RESTRICTIVE GUIDELINE OR REGULATION SHALL BE FOLLOWED AND OVERRIDE THE LESSER.

2. THE PUBLIC LIMIT OF RF EXPOSURE ALLOWED BY VERIZON WIRELESS IS 1mWcm^2 AND THE OCCUPATIONAL LIMIT OF RF EXPOSURE ALLOWED BY VERIZON WIRELESS IS 5mWcm^2

3. IF THE BOTTOM OF THE ANTENNA IS MOUNTED (8) EIGHT FEET ABOVE THE GROUND OR ROOF LINE OF THE PERSONAL COMMUNICATION SYSTEM (PCS) AND DOES NOT EXCEED THE PUBLIC LIMIT OF RF EXPOSURE LIMIT THEN NO STRIPING OR BARRICADES SHOULD BE NEEDED.

4. IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR CANNOT BE LOCKED OR THERE IS AN EXISTING FIRE EGRESS), THEN BOTH BARRICADES AND STRIPING WILL BE NEEDED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING WILL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER THE CONSTRUCTION OF THE SITE. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.

5. IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS NOT EXCEEDED AND THE AREA IS NOT PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR IS LOCKED), THEN JUST STRIPING OUT TO THE PUBLIC LIMIT WILL BE NEEDED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE STRIPING WILL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER THE CONSTRUCTION OF THE SITE. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH STRIPING.

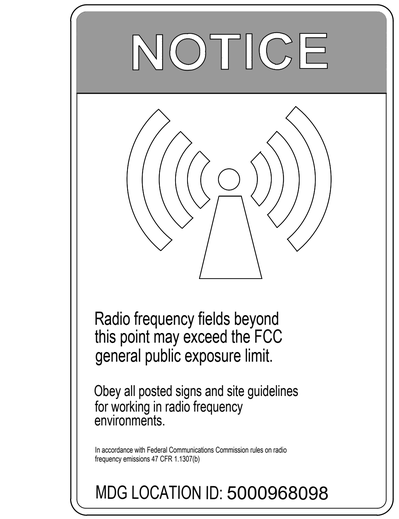
6. ALL TRANSMIT ANTENNAS REQUIRE A (3) THREE LANGUAGE WARNING SIGN WRITTEN IN ENGLISH, SPANISH, AND CHINESE. THIS SIGN WILL BE PROVIDED TO THE CONTRACTOR BY THE VERIZON WIRELESS CONSTRUCTION MANAGER AT THE TIME OF CONSTRUCTION. THE LARGER SIGN SHALL BE PLACED AT ALL ROOF ACCESS LOCATIONS AND ON ALL BARRICADES IN PLAIN SIGHT AND THE SMALLER SIGN SHALL BE PLACED ON THE ANTENNAS THEMSELVES OR ON THE OUTSIDE OF THE ANTENNA ENCLOSURES IN A MANNER THAT IS EASILY SEEN BY ANY PERSON ON THE ROOF. WARNING SIGNS SHALL COMPLY WITH ANSI C95.2 COLOR, SYMBOL, AND CONTENT CONVENTIONS. ALL SIGNS WILL HAVE VERIZON WIRELESS'S NAME AND THE COMPANY CONTACT INFORMATION (e.g. TELEPHONE NUMBER) TO ARRANGE FOR ACCESS TO THE RESTRICTED AREAS. THIS TELEPHONE NUMBER WILL BE PROVIDED TO THE CONTRACTOR BY THE VERIZON WIRELESS CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION.

7. PHOTOS OF ALL STRIPING, BARRICADES, AND SIGNAGE WILL BE PART OF THE CONTRACTORS CLOSE OUT PACKAGE AND WILL BE TURNED INTO THE VERIZON WIRELESS CONSTRUCTION PROJECT MANAGER AT THE END OF CONSTRUCTION. STRIPING SHALL BE DONE WITH FADE RESISTANT YELLOW SAFETY PAINT IN A CROSS HATCH PATTERN. ALL BARRICADES SHALL BE MADE OF AN RF FRIENDLY MATERIAL SO THAT THEY DO NOT BLOCK OR INTERFERE WITH THE OPERATION OF THE SITE AND SHALL BE PAINTED WITH FADE RESISTANT YELLOW SAFETY PAINT. THE CONTRACTOR SHALL PROVIDE ALL RF FRIENDLY BARRICADES NEEDED AND SHALL PROVIDE THE VERIZON WIRELESS CONSTRUCTION PROJECT MANAGER WITH A DETAILED SHOP DRAWING OF EACH BARRICADE.

8. ALL REQUIRED SIGNAGE WILL BE INSTALLED AS NEEDED AND FIELD VERIFIED.



1 TYPICAL ADDRESS SIGN DETAIL (@ LEASE AREA ACCESS DOOR)



2 TYPICAL CAUTION SIGN

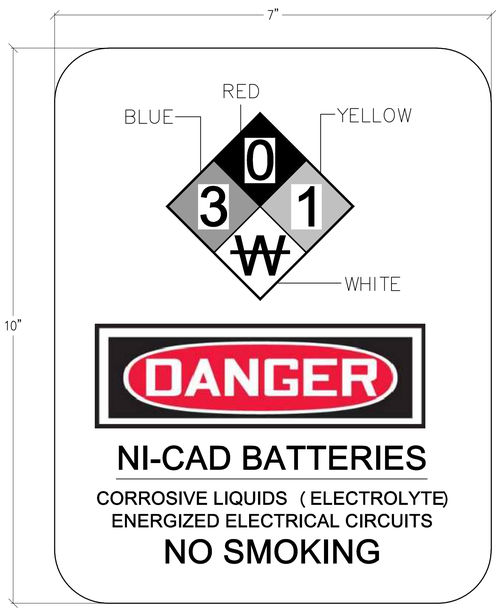
NOTE: SIGN TO BE PERMANENTLY MOUNTED AT ANTENNA LOCATIONS.



3 TYPICAL HAZARD SIGN



4 TYPICAL HAZARD SIGN



5 BATTERY SIGN

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PREPARED FOR

verizon

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WALNUT CREEK, CA 94598

Vendor:

COMPLETE Wireless Consulting, Inc.

MDG LOCATION ID:	5000968098
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CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

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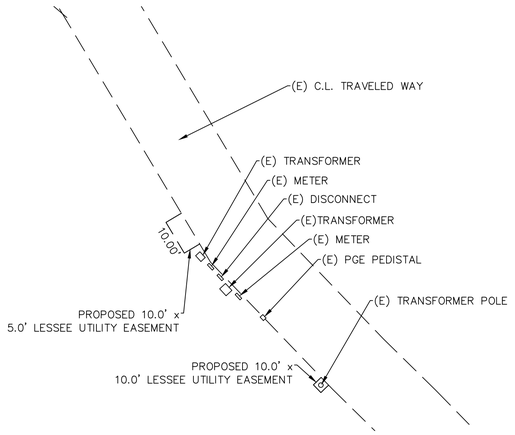
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SHEET TITLE:

SIGNAGE DETAILS

SHEET NUMBER:

T-1.3



SCALE 1" = 20'

UTILITY DETAIL

Project Name: Redwing Trail

Project Site Location: 35601 Sherwood Road
Willits, CA 95490
Mendocino County

Parcel Number: 036-110-01

Date of Observation: 04-02-25

Equipment/Procedure Used to Obtain Coordinates: Trimble Pathfinder GeoXT post processed with Pathfinder Office software.

Type of Antenna Mount: Existing lattice Tower

Coordinates
Latitude: N 39°33'32.12" (NAD83) N 39°33'32.55" (NAD27)
Longitude: W 123°27'20.73" (NAD83) W 123°27'16.68" (NAD27)

Latitude: N 39.558922° (NAD83) N 39.559041° (NAD27)
Longitude: W 123.455758° (NAD83) W 123.454634° (NAD27)

ELEVATION of Ground at Structure (NAVD88) 2466' AMSL
Height of Structure: 150' AGL

DATE OF SURVEY: 04-02-25

SURVEYED BY OR UNDER DIRECTION OF: KENNETH D. GEIL, R.C.E. 14803

LOCATED IN THE COUNTY OF MENDOCINO, STATE OF CALIFORNIA

BEARINGS SHOWN ARE BASED UPON MONUMENTS FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY.

ELEVATIONS SHOWN ON THIS PLAN ARE BASED UPON U.S.G.S. N.A.V.D. 88 DATUM. ABOVE MEAN SEA LEVEL UNLESS OTHERWISE NOTED.

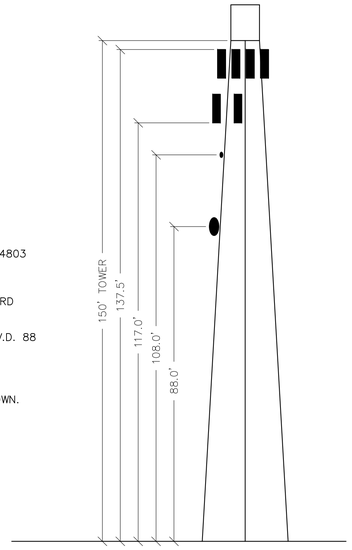
FEMA FIRM ZONE "X" PER FIRM 06045C0900F DATED 06/02/2011.

N.G.V.D. 1929 CORRECTION: SUBTRACT 3.10' FROM ELEVATIONS SHOWN.

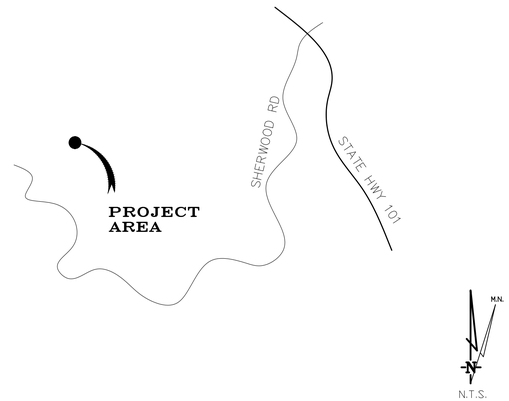
CONTOUR INTERVAL: 1 FT.

ASSESSOR'S PARCEL NUMBER: 036-110-01

LANDLORD(S): US CELLULAR
8410 WEST BRYN MAWR AVE
CHICAGO, IL 60631



SCALE 1" = 20'

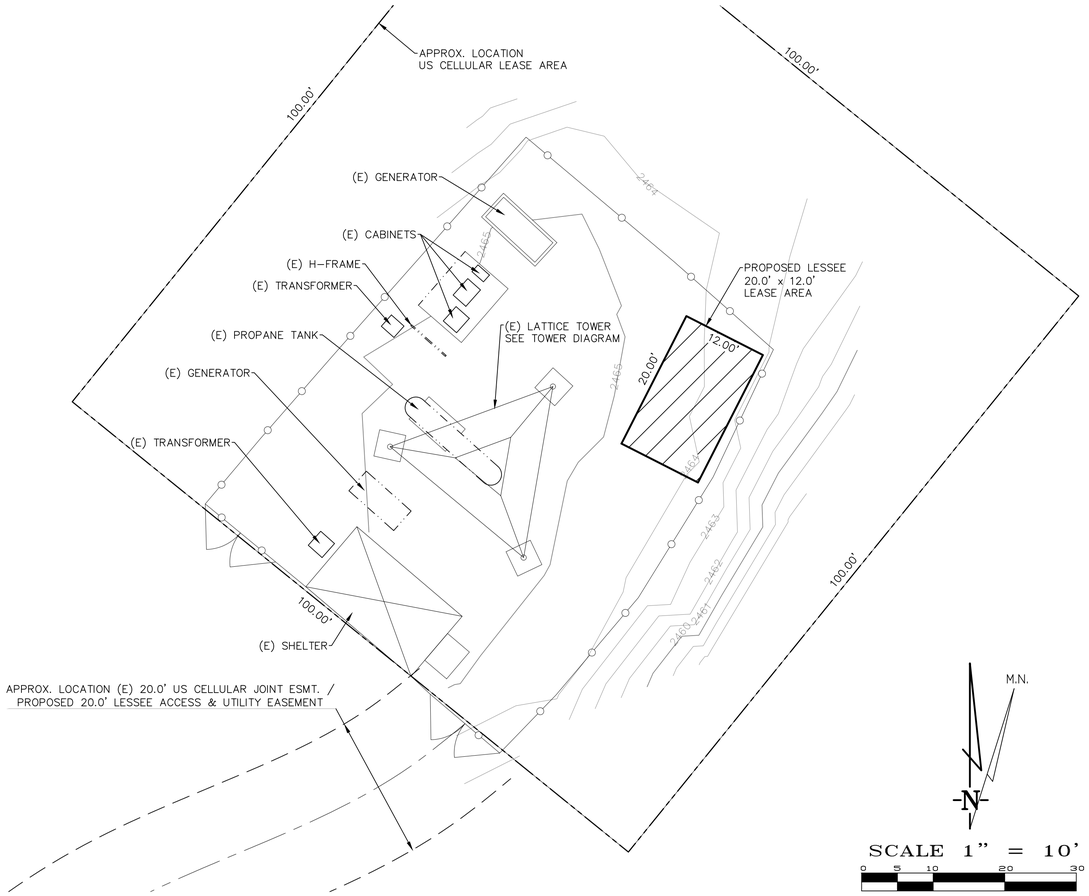


Willits, CA

VICINITY MAP

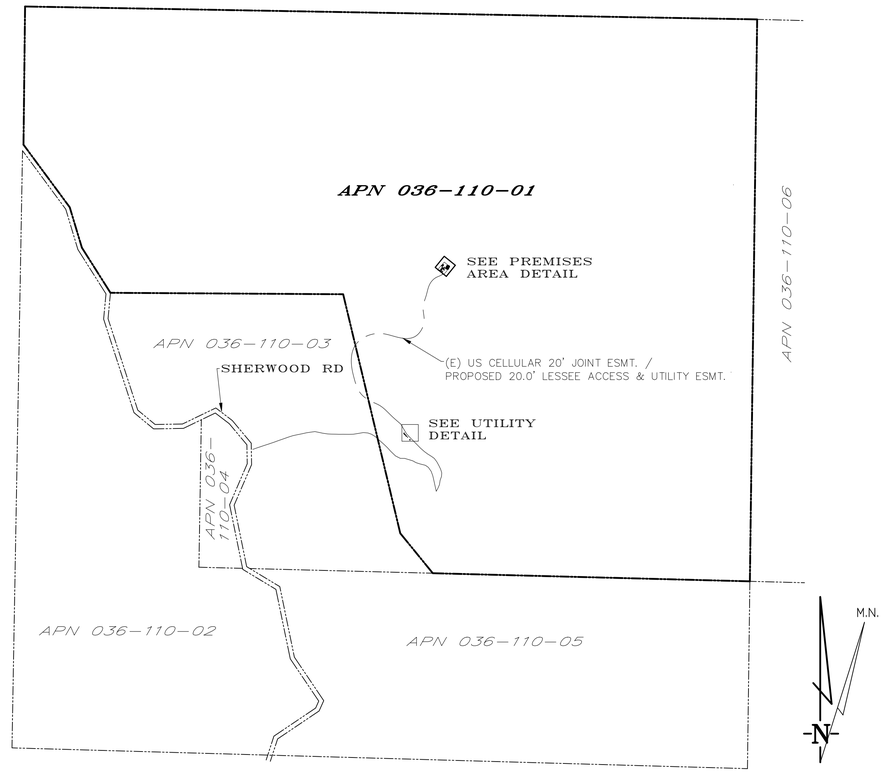
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BOUNDARY SHOWN IS BASED ON MONUMENTATION FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY LINES AND EASEMENTS BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION FOUND DURING THE FIELD SURVEY. NO EASEMENTS WERE RESEARCHED OR PLOTTED. PROPERTY LINES AND LINES OF TITLE WERE NOT INVESTIGATED NOR SURVEYED. NO PROPERTY MONUMENTS WERE SET.



SCALE 1" = 10'

PREMISES AREA DETAIL



SCALE 1" = 500'

OVERALL PROJECT AREA

Geil Engineering and Surveying
1226 Jan Ave
Auburn, California 95603-8015
phone: 530-885-0426

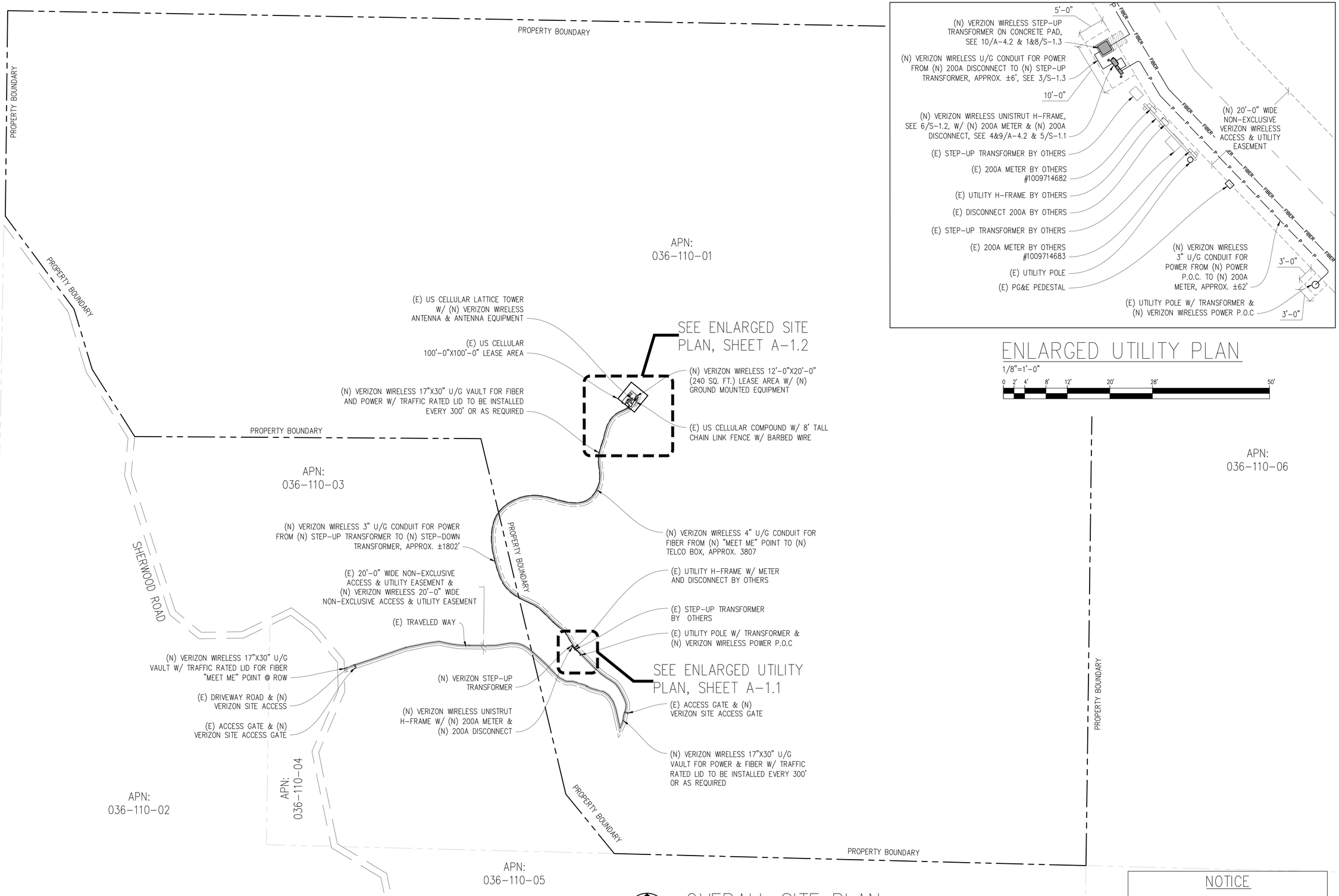
verizon

Redwing Trail
35601 Sherwood Road
Willits, CA 95490

PLOT PLAN AND
SITE TOPOGRAPHY

REVISIONS		
04-10-25	Preliminary Drawing	DG
06-03-25	rev. lease area	DG
09-08-25	esmts. added	DG

Sheet
C-1



OVERALL SITE PLAN

1"=200'-0"

0 100' 200' 400' 600' 1,000'

ENLARGED UTILITY PLAN

1/8"=1'-0"

0 2' 4' 8' 12' 20' 28' 50'

NOTICE

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Issued For:

REDWING TRAIL

35601 SHERWOOD ROAD
WILLITS, CA 95490

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

COMPLETE
Wireless Consulting, Inc.

MDG LOCATION ID:	5000968098
PROJECT ID:	17393310
DRAWN BY:	FS
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

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S6336
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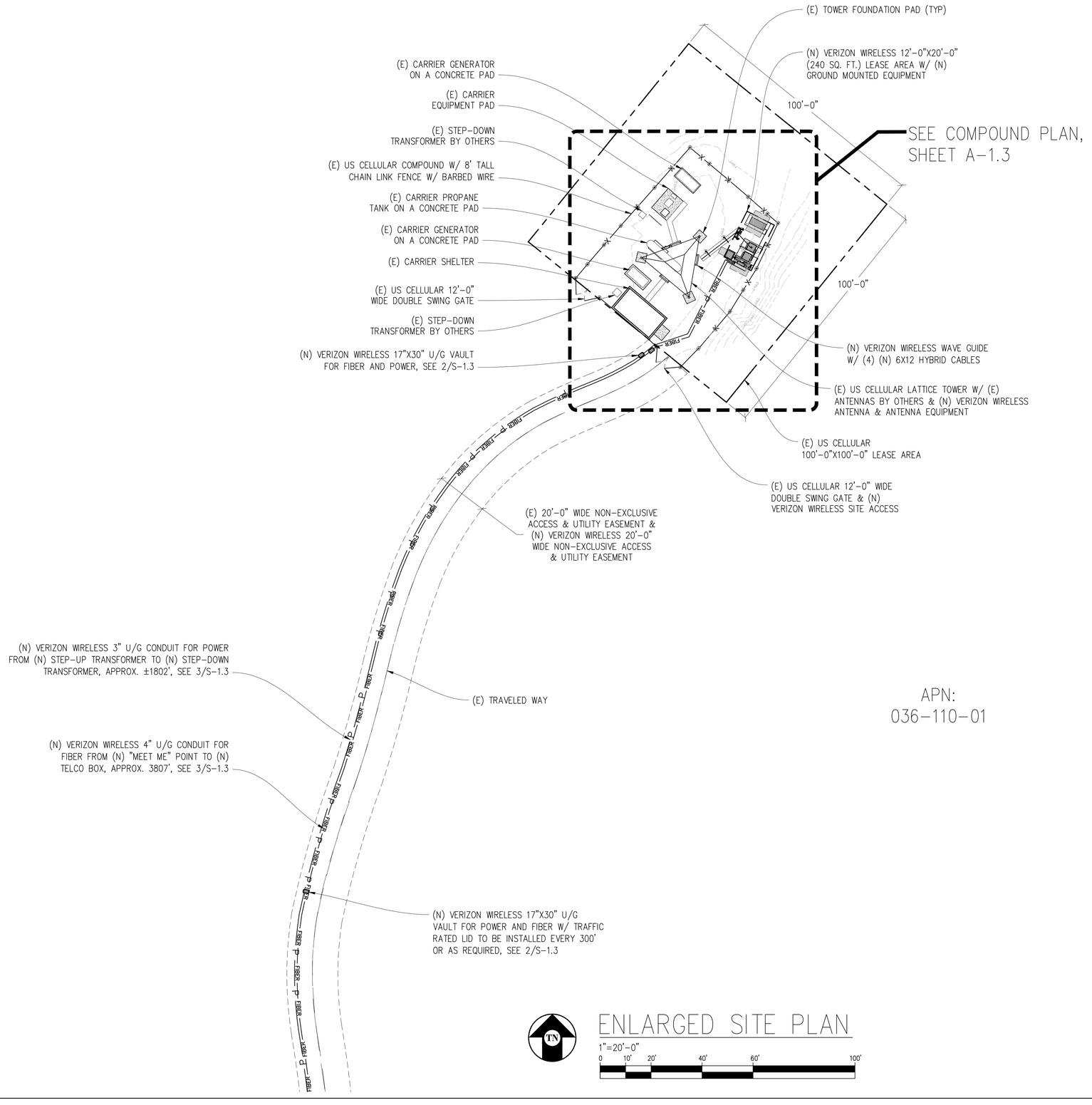
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SHEET TITLE:

OVERALL
SITE PLAN

SHEET NUMBER:

A-1.1



APN:
036-110-01

ENLARGED SITE PLAN

1"=20'-0"

0 10' 20' 40' 60' 100'

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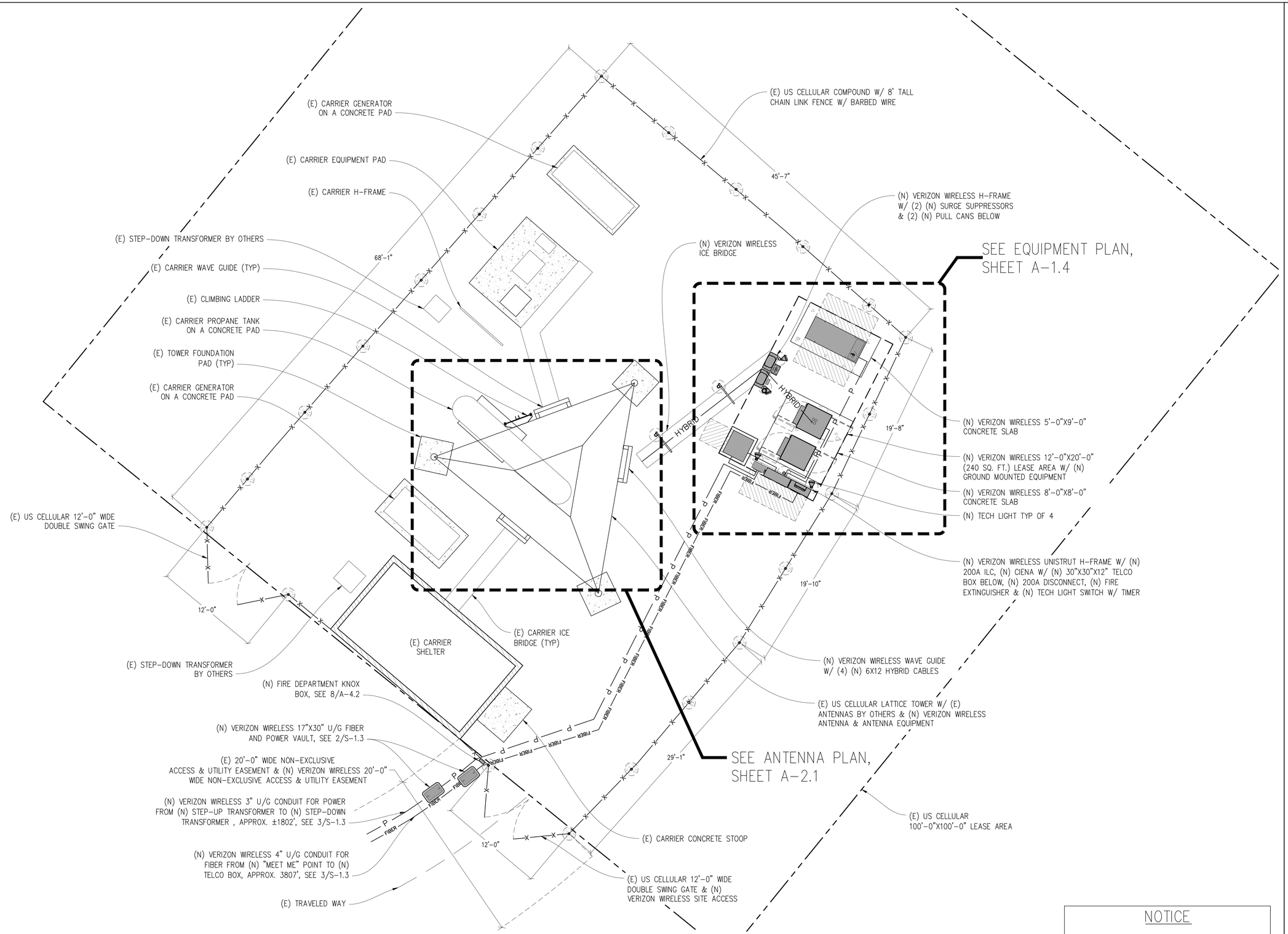
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SHEET TITLE:

ENLARGED SITE PLAN

SHEET NUMBER:

A-1.2



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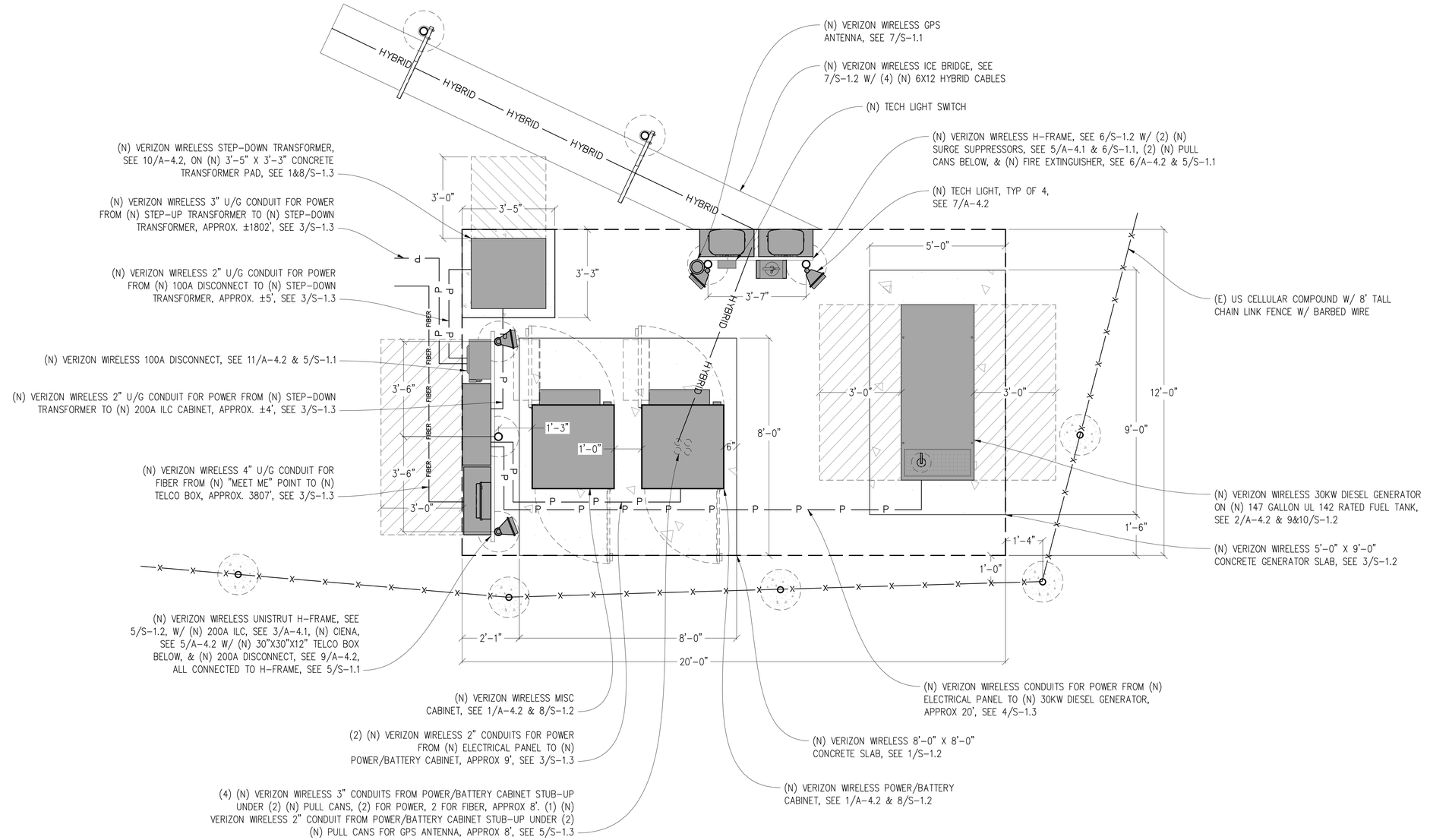
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SHEET TITLE:

COMPOUND PLAN

SHEET NUMBER:

A-1.3



EQUIPMENT PLAN

½"=1'-0"

0 6" 1' 2' 3' 5' 7' 10'

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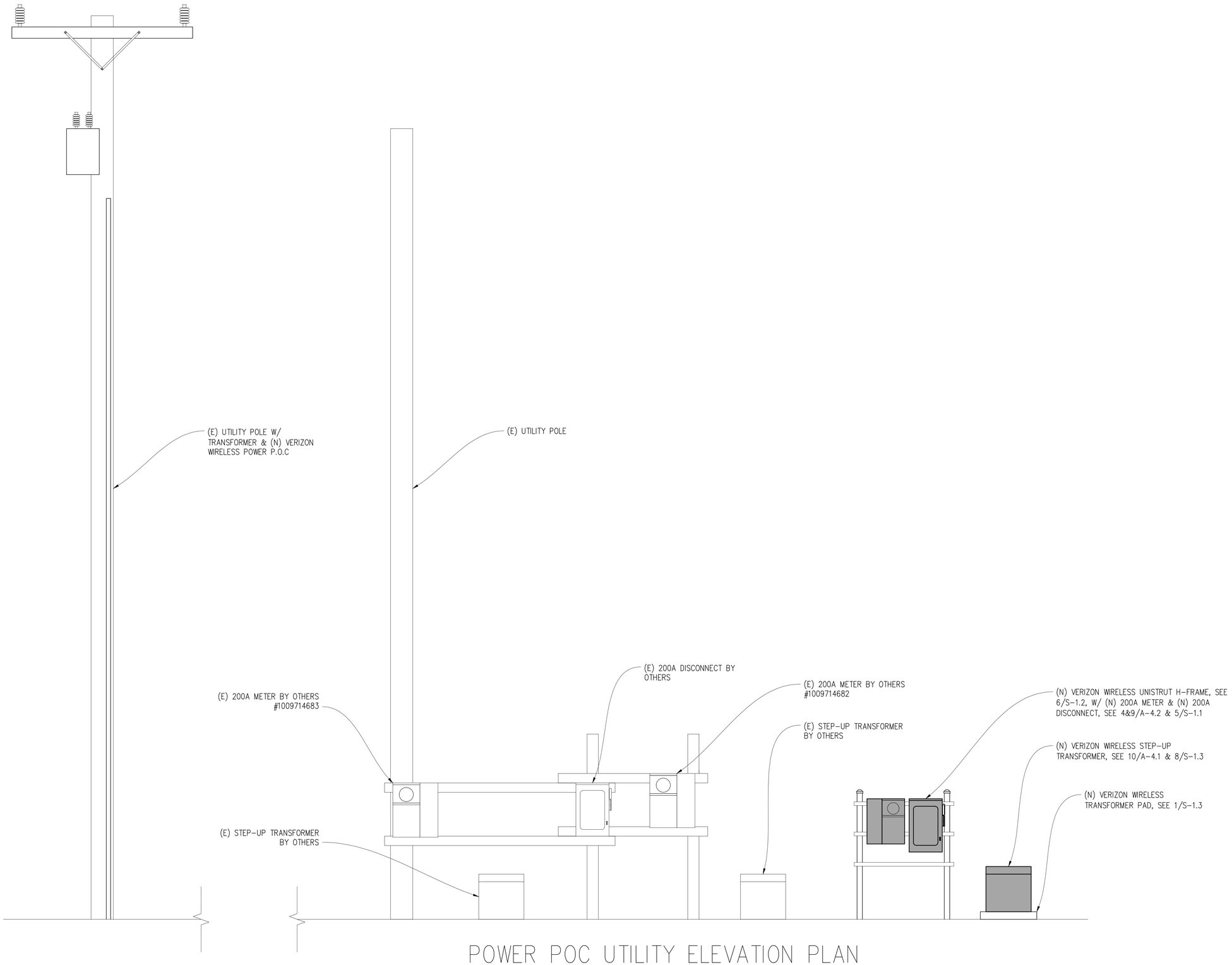
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SHEET TITLE:

EQUIPMENT PLAN

SHEET NUMBER:

A-1.4



POWER POC UTILITY ELEVATION PLAN

½"=1'-0"

0 6" 1' 2' 3' 5' 7' 10'

Issued For:

REDWING TRAIL

35601 SHERWOOD ROAD
WILLITS, CA 95490

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

COMPLETE
Wireless Consulting, Inc.

MDG LOCATION ID:	5000968098
PROJECT ID:	17393310
DRAWN BY:	FS
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
3	10/15/25	CD 100%	J.Z.
2	09/23/25	CLIENT REV	S.D.
1	09/05/25	CD 95%	S.D.
0	06/13/25	CD 90%	S.D.

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JAMES R. SPORE
S6336
STRUCTURAL
STATE OF CALIFORNIA

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Streamline Engineering and Design, Inc.
3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

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SHEET TITLE:

POWER POC UTILITY ELEVATION PLAN

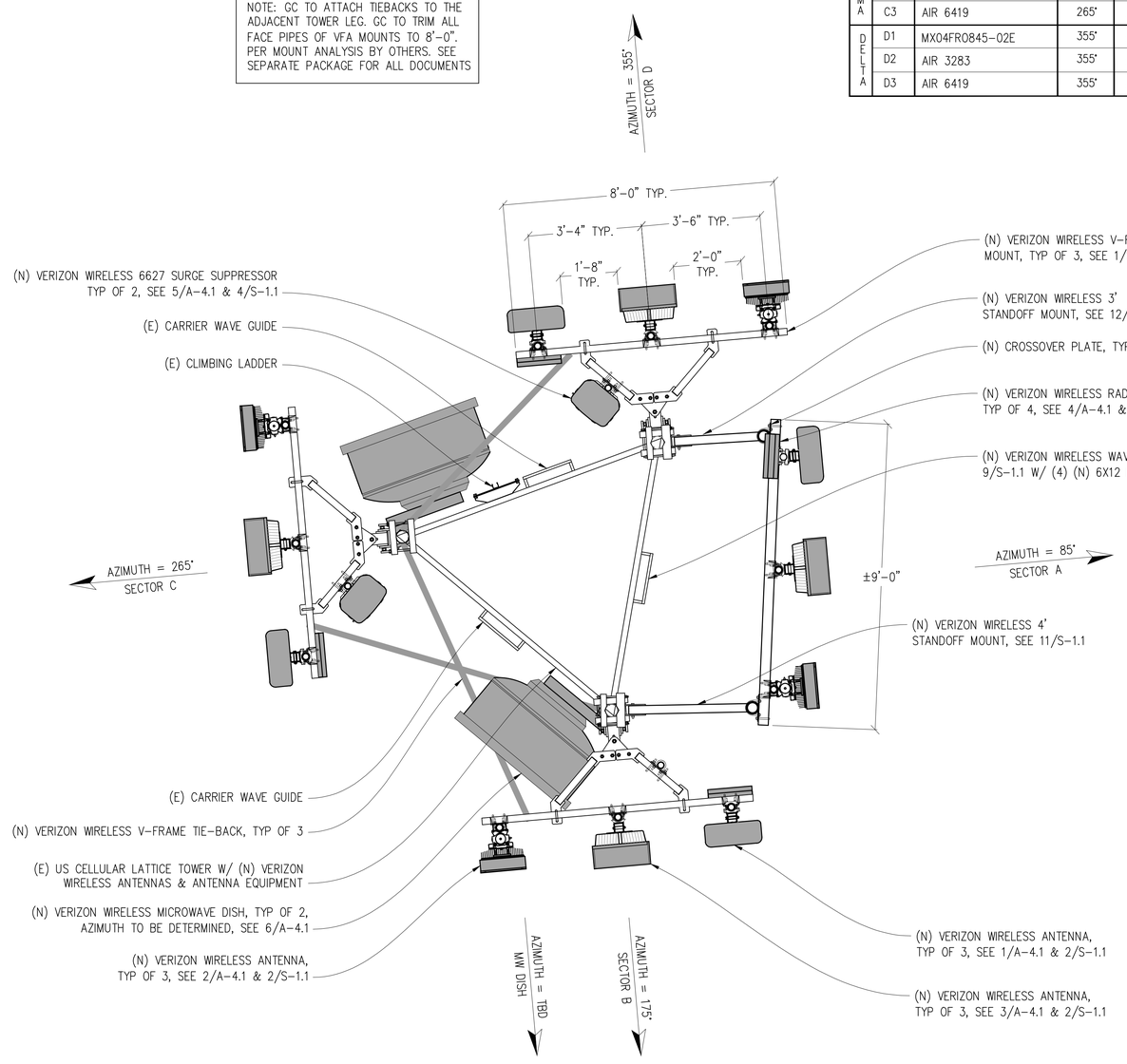
SHEET NUMBER:

A-1.5

(N) RF SCHEDULE (PRELIMINARY & SUBJECT TO CHANGE)

SECTOR		ANTENNA MODEL NO.	AZIMUTH	CENTERLINE	RRU NO'S & MODEL #	# OF HYBRID CABLES	LENGTH OF CABLES	SURGE SUPPRESSOR
ALPHA	A1	MX04FR0845-02E	85°	±142'-7"	(1) 4490	SHARED	–	SHARED
	A2	AIR 3283	85°	±142'-7"	INTEGRATED	2	±136	(1) 6627
	A3	AIR 6419	85°	±142'-7"	INTEGRATED	SHARED	–	SHARED
BETA	B1	MX04FR0845-02E	175°	±142'-7"	(1) 4490	SHARED	–	SHARED
	B2	AIR 3283	175°	±142'-7"	INTEGRATED	2	±136	(1) 6627
	B3	AIR 6419	175°	±142'-7"	INTEGRATED	SHARED	–	SHARED
GAMMA	C1	MX04FR0845-02E	265°	±142'-7"	(1) 4490	SHARED	–	SHARED
	C2	AIR 3283	265°	±142'-7"	INTEGRATED	SHARED	–	SHARED
	C3	AIR 6419	265°	±142'-7"	INTEGRATED	SHARED	–	SHARED
DELTA	D1	MX04FR0845-02E	355°	±142'-7"	(1) 4490	SHARED	–	SHARED
	D2	AIR 3283	355°	±142'-7"	INTEGRATED	SHARED	–	SHARED
	D3	AIR 6419	355°	±142'-7"	INTEGRATED	SHARED	–	SHARED

NOTE: GC TO ATTACH TIEBACKS TO THE ADJACENT TOWER LEG. GC TO TRIM ALL FACE PIPES OF VFA MOUNTS TO 8'-0". PER MOUNT ANALYSIS BY OTHERS. SEE SEPARATE PACKAGE FOR ALL DOCUMENTS



ANTENNA PLAN

½"=1'-0"

0 6" 1' 2' 3' 5' 7' 10'

NOTE:

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WILLITS, CA 95490

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

COMPLETE Wireless Consulting, Inc.

MDG LOCATION ID:	5000968098
PROJECT ID:	17393310
DRAWN BY:	FS
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

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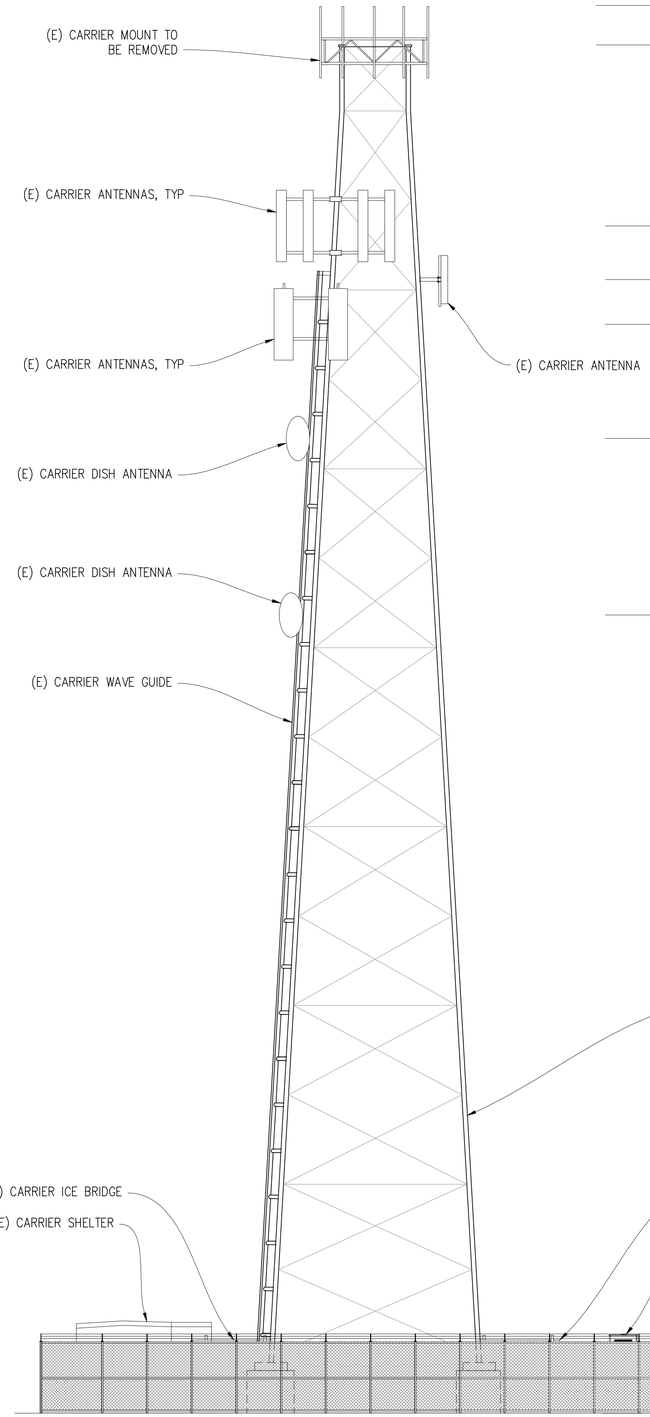
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SHEET TITLE:

ANTENNA PLAN

SHEET NUMBER:

A-2.1



(E) EAST ELEVATION

1/8"=1'-0"

0 2' 4' 8' 12' 20' 28' 50'

TOP OF (E) MOUNT / (E) OVERALL HEIGHT
±153'-1" ABOVE BASE OF TOWER (±157'-4" A.G.L.)

TOP OF (E) LATTICE TOWER
±148'-9" ABOVE BASE OF TOWER (±153'-0" A.G.L.)

TOP OF (N) VERIZON WIRELESS ENVELOPE
±147'-7" ABOVE BASE OF TOWER (±151'-11" A.G.L.)

TOP OF (N) VERIZON WIRELESS ANTENNAS
±146'-6" ABOVE BASE OF TOWER (±150'-10" A.G.L.)

CENTER OF (N) VERIZON WIRELESS ANTENNAS
±142'-7" ABOVE BASE OF TOWER (±146'-11" A.G.L.)

CENTER OF (N) VERIZON WIRELESS MW DISH
±139'-7" ABOVE BASE OF TOWER (±143'-11" A.G.L.)

BOTTOM OF (N) VERIZON WIRELESS ENVELOPE
±137'-7" ABOVE BASE OF TOWER (±141'-11" A.G.L.)

CENTER OF (E) CARRIER ANTENNAS
±128'-0" ABOVE BASE OF TOWER (±132'-4" A.G.L.)

CENTER OF (E) CARRIER ANTENNAS
±122'-0" ABOVE BASE OF TOWER (±126'-4" A.G.L.)

CENTER OF (E) CARRIER ANTENNAS
±117'-0" ABOVE BASE OF TOWER (±121'-4" A.G.L.)

CENTER OF (E) CARRIER DISH ANTENNA
±104'-3" ABOVE BASE OF TOWER (±108'-7" A.G.L.)

CENTER OF (E) CARRIER DISH ANTENNA
±84'-6" ABOVE BASE OF TOWER (±88'-10" A.G.L.)

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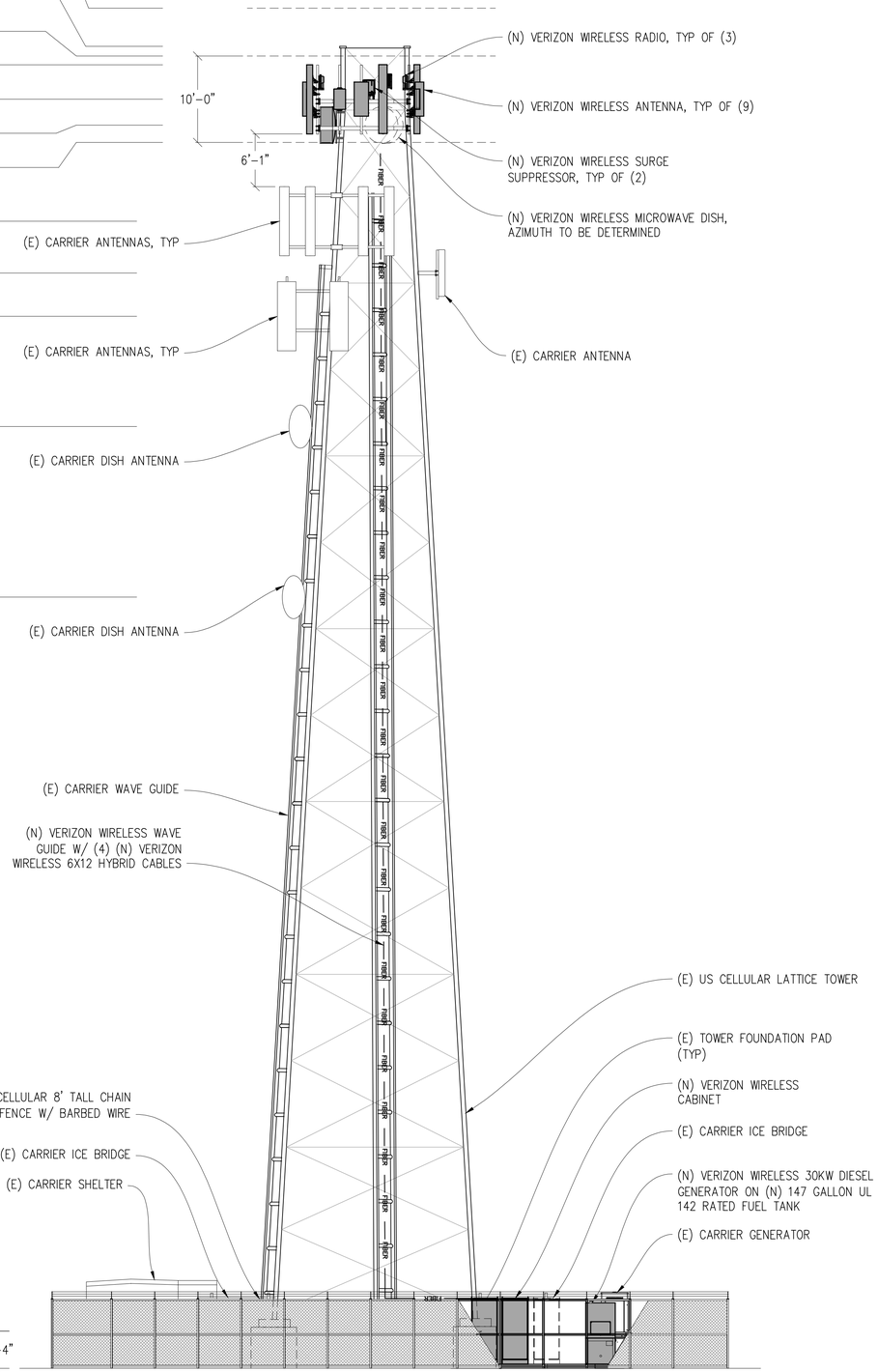
NOTE:

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TOP OF (E) CONCRETE PIER FOUNDATION & BASE OF TOWER
±0'-0" (2470.60' AMSL)

±4'-4"

(E) GRADE
2466.3' AMSL



(N) EAST ELEVATION

1/8"=1'-0"

0 2' 4' 8' 12' 20' 28' 50'

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PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
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Vendor:

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PROJECT ID:	17393310
DRAWN BY:	FS
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

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Contact: Kevin Sorensen Phone: 916-660-1530
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

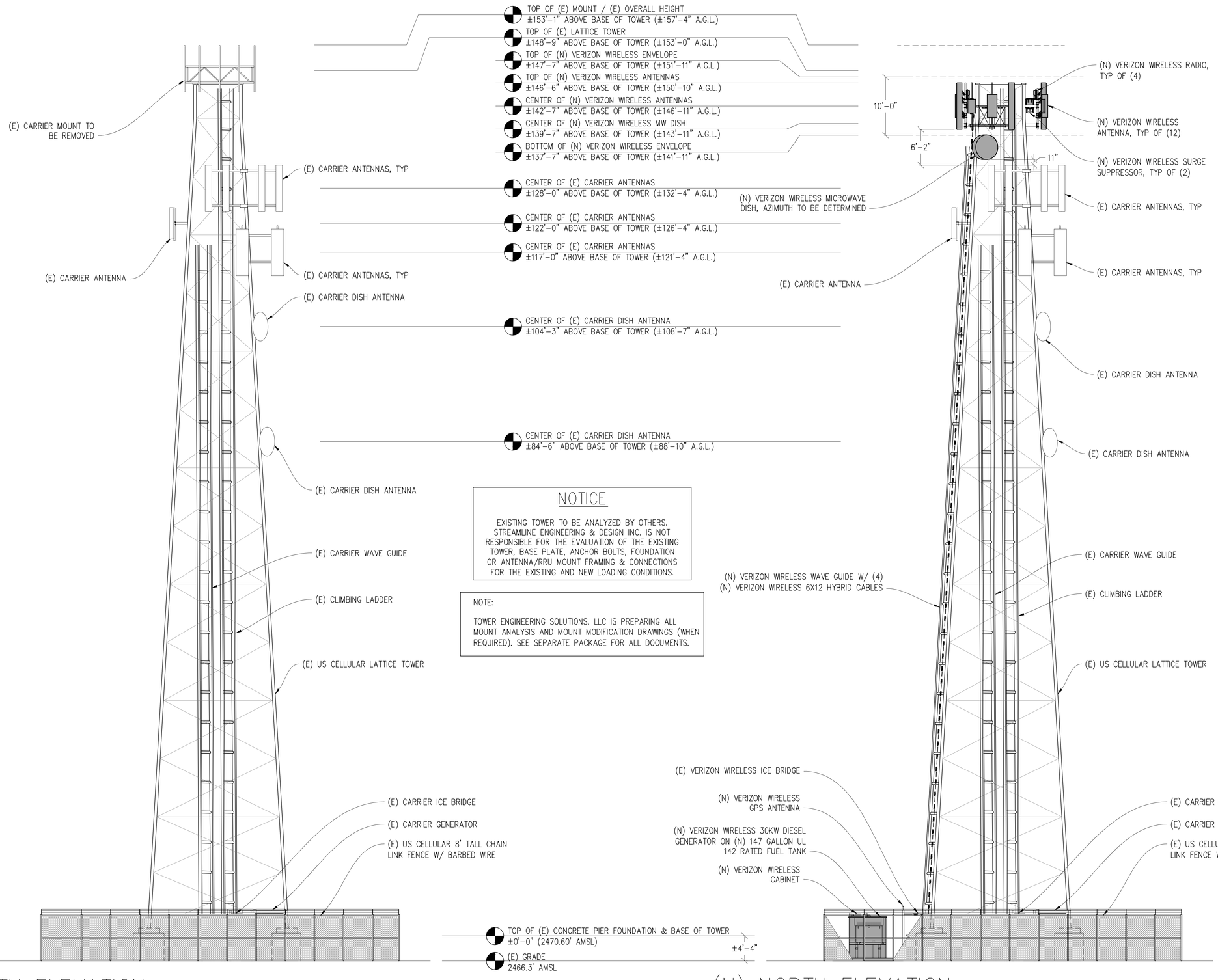
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SHEET TITLE:

ELEVATIONS

SHEET NUMBER:

A-3.1



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(E) NORTH ELEVATION

1/8"=1'-0"

0 2' 4' 8' 12' 20' 28' 50'

(N) NORTH ELEVATION

1/8"=1'-0"

0 2' 4' 8' 12' 20' 28' 50'

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WILLITS, CA 95490

PREPARED FOR

verizon

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WALNUT CREEK, CA 94598

Vendor:

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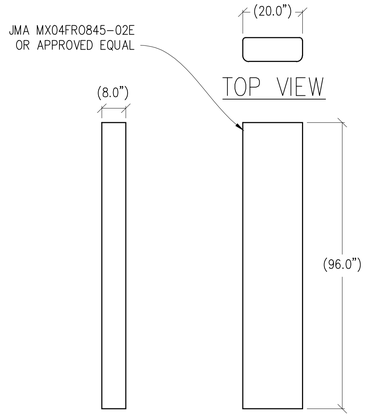
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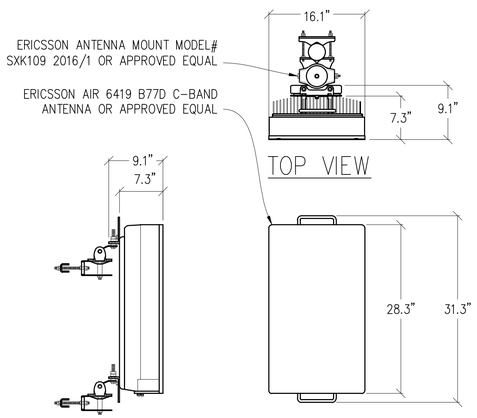
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A-3.2



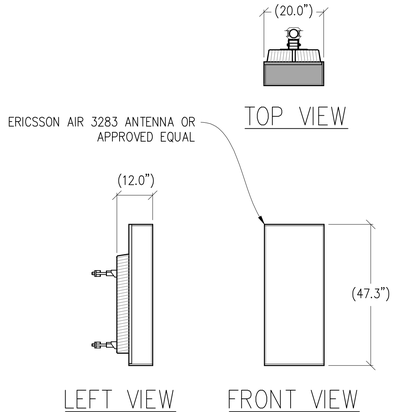
1 ANTENNA DETAIL

½"=1'-0" MAX WEIGHT: 74 LBS



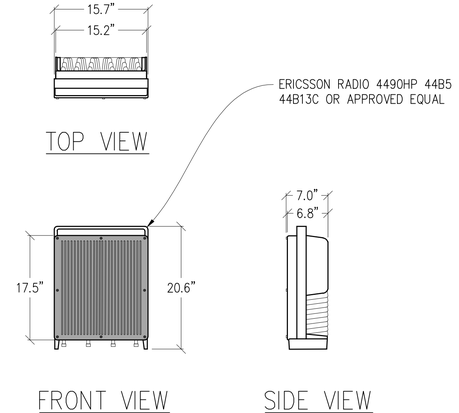
2 ANTENNA DETAIL

1"=1'-0" MAX WEIGHT: 64 LBS



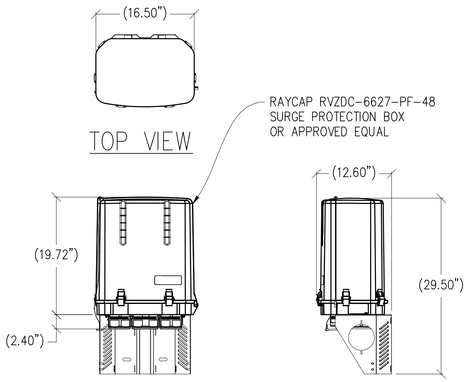
3 ANTENNA DETAIL

½"=1'-0" WEIGHT: 110 LBS



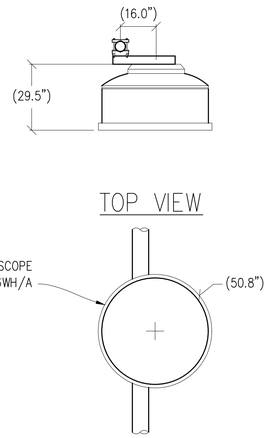
4 RADIO 4490HP DETAIL

1"=1'-0" MAX WEIGHT: 68.4 LBS



5 SURGE PROTECTION BOX

1"=1'-0" MAX WEIGHT: 32.0 LBS



6 MICROWAVE DETAIL

⅜"=1'-0" MAX WEIGHT: 71 LBS

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35601 SHERWOOD ROAD
WILLITS, CA 95490

PREPARED FOR

verizon

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WALNUT CREEK, CA 94598

Vendor:

COMPLETE Wireless Consulting, Inc.

MDG LOCATION ID:	5000968098
PROJECT ID:	17393310
DRAWN BY:	FS
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

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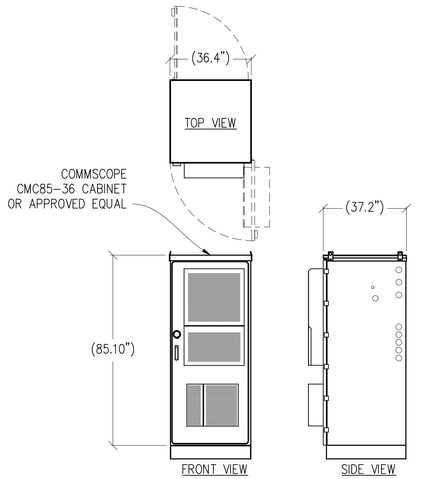
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DETAILS

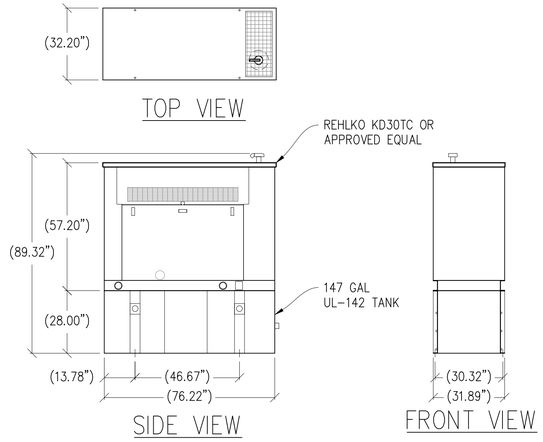
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A-4.1



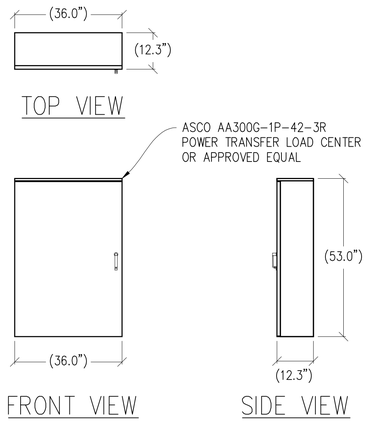
1 CABINET DETAIL

3/8"=1'-0" MAX WEIGHT: 1,861 LBS



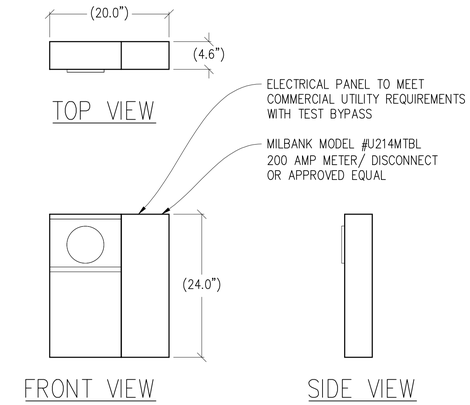
2 GENERATOR DETAIL

3/8"=1'-0" MAX FULL WEIGHT: 4,285 LBS



3 ILC CABINET DETAIL

1/2"=1'-0" MAX WEIGHT: 210 LBS



4 METER DETAIL

1"=1'-0"

5 CN 3931 DETAIL

1½"=1'-0" MAX WEIGHT: 28.6 LBS

6 FIRE EXTINGUISHER DETAIL

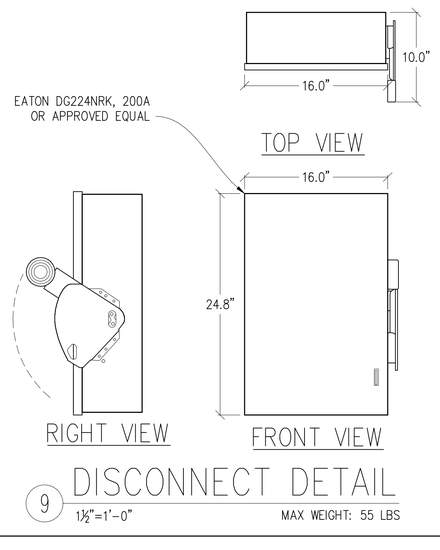
N.T.S.

7 TECH LIGHT DETAIL

1½"=1'-0"

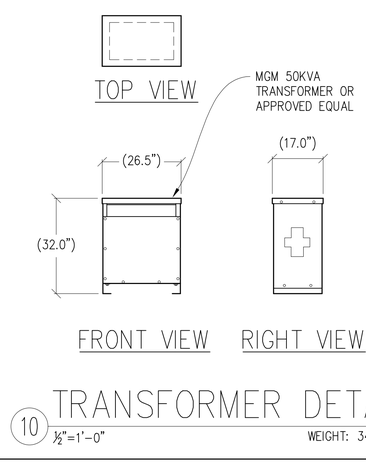
8 KNOX BOX

3"=1'-0" MAX WEIGHT: 9 LBS



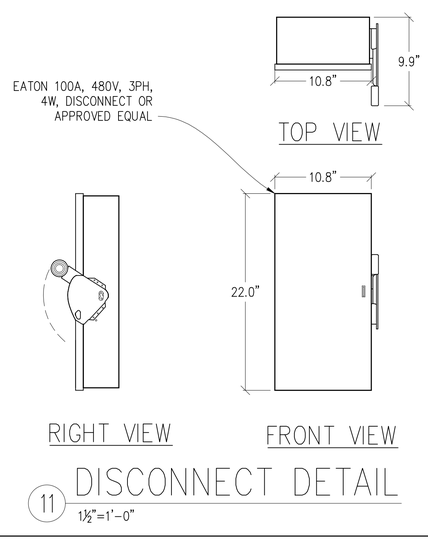
9 DISCONNECT DETAIL

1½"=1'-0" MAX WEIGHT: 55 LBS



10 TRANSFORMER DETAIL

½"=1'-0" WEIGHT: 345 LBS



11 DISCONNECT DETAIL

1½"=1'-0"

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SHEET TITLE:

DETAILS

SHEET NUMBER:

A-4.2

saft	T-210	REV A

P/N: 80-94890-02

Tel.X-Plus 180 (5x8 Cell Block) Environmental Overview



Change History

Rev.	Description of Changes	By	Date
-	Initial creation, sections drafted	HBO	09/27/2021
A	Edited and released	HBO	10/04/2021

Section 5- Specifications and Design Standards

Conforms with quality, safety, and environmental standards

Meets the highest international standards, including:

Electrical and performances
- IEC 60623 compliant– Secondary cells and batteries containing alkaline or other non-acid electrolytes – vented nickel-cadmium prismatic rechargeable single cell
- Telcordia GR-3020 compliant – Nickel-cadmium batteries in the outside plant
- NFC 15-100 compliant – Low-voltage electrical installations

Safety
- EN 50272-2/IEC 62485-2 –Safety requirements for secondary batteries and battery installations – Part 2: Stationary batteries
- UL 94 V0: UL standard for flammability safety of plastic materials for parts in devices and appliances testing
- UL 1989 – Safety for standby batteries certified by Intertek
- Telcordia – GR 63 NEBS level 3 – NEBS requirements for physical protection
- Telcordia – GR 1089 NEBS level 3 – Electromagnetic compatibility and electrical safety – generic criteria for network telecommunications equipment

Quality
- ISO 9001
- Saft world class continuous program

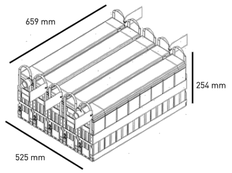
Environment
- Fully recyclable
  RoHS – Although batteries and accumulators are not within the scope of the RoHS directive, Saft has taken voluntary measures to ensure that the substances prohibited by RoHS are not present in the battery, except for the electro-chemical core
- REACH – The Saft Group has adopted internal procedures to ensure conformity with the European REACH (Registration, Evaluation, Authorization, and Restriction of Chemical Substances) Regulation

Section 1- Tel.X-Plus 180 Specifications

String Part Number: 80-94890-02

Dimensions per String:

Length	25.9 in	659 mm
Width	20.7 in	525 mm
Height	10.0 in	254 mm
Weight	365 lb	165.5 kg



String Nominal Capacity / Energy: 172 Ah / 8.2 kWh

Performance after 24-hour constant voltage float charge to 1.43VDC per cell at +25°C (+77°F) with a minimum charge current of 0.1 C_A Amp* down to various end of discharge voltages

End of Discharge Voltage (VDC/Cell)	Discharge rate hours (Amps)											
	0.25	0.5	1	2	3	4	5	8	10	12	18	24
1.00	360.0	290.0	178.0	90.0	60.0	45.1	36.2	22.8	18.5	15.6	10.7	8.3
1.05	330.0	252.0	170.0	87.0	58.5	44.0	35.3	22.3	18.0	15.1	10.3	7.95
1.10	287.5	225.0	155.0**	84.0	57.5	43.1	34.5	21.6	17.4	14.7	10.1	7.75
1.14	225.0	180.0	130.0	80.0	55.0	41.4	33.2	20.9	16.9	14.2	9.7	7.5

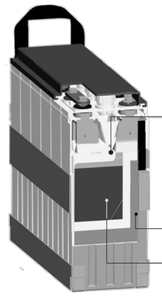
End of Discharge Voltage (VDC/Cell)	Discharge rate hours (Watts)											
	0.25	0.5	1	2	3	4	5	8	10	12	18	24
1.00	349.2	308.8	198.0	104.0	70.4	53.0	42.5	26.8	21.8	18.4	12.7	9.9
1.05	336.1	271.3	190.0	101.0	68.8	51.8	41.6	26.3	21.3	17.9	12.3	9.5
1.10	306.7	244.4	174.0**	98.0	67.8	50.9	40.8	25.6	20.7	17.4	12.0	9.3
1.14	248.8	204.1	147.0	94.0	65.2	49.0	39.4	24.8	20.1	16.9	11.7	9.0

* 0.1 C_AAmp for TLX+180 equates to 17.2Amps
** Derating factor for 1-hour discharge rate at +5°C (+41°F) to 1.1VDC/cell is 7.8%
Power cable selection: The selection of power cables used within the installation of Saft Batteries is a function of:
1- Installation location: dry, damp, or wet (as defined by the NEC code)
2- Maximum ambient operating temperature
3- Maximum sustained current (amperage) applied during charge or discharge
Follow standards mandated by the application such as GR347

Section 2- Metal and Electrolyte Calculations

Cadmium metal *(Weight per String)*	65.2 lb	29.57 kg
Nickel metal *(Weight per String)*	64.8 lb	29.39 kg
Cobalt metal *(Weight per String)*	6.0 lb	2.72 kg
Cadmium metal %	17.62%	
Nickel metal %	17.51%	
Cobalt metal %	1.62%	
Electrolyte %	23.9%	
Other Materials % *(Metal Connectors, Plastic, etc.)*	<40%	

Electrolyte Solution (bound and free) pounds per String	87.2 lb
Electrolyte Solution (bound and free) gallons per String	8.90 gallons



Electrolyte inside the cells is a water-based solution of 30% potassium hydroxide. Highly conductive, it remains liquid down to-40°C (-40°F).

The negative plate uses cadmium active mass to provide useful capacity.

The positive plate uses nickel active mass to provide useful capacity.

Section 3- Tel.X- Plus 180 Gassing

Op. type	VPC	T (°C / °F)	H_2 per cell (l/h)	H_2 per 40-cell string (l/h)	H_2(cfm x 10^{-4} X C8)	H_2(cfm x 10^{-4} X C8) per 40-cell string
Floating	1.45	+25 / +77	0.0000240	0.00096	0.00008	0.00328
Floating	1.45	+45 / +113	0.0013100	0.05240	0.00448	0.17931
Floating	1.45	+60 / +140	0.0102200	0.40880	0.03497	1.39890

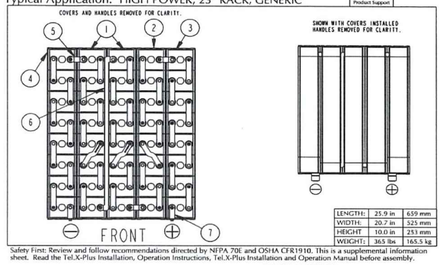
- During normal operation, hydrogen gas, oxygen gas, and water vapor are exhausted through the cell vent. Exhausted gases result in the electrolyte's water consumption.
- Gassing from electrolysis occurs mainly during overcharging and, to a lesser degree, during float charging. It will not occur during battery storage, normal discharging, or during the early re-charging stage (cell voltage must rise above 1.23 VDC for electrolysis to take place).
- During overcharging, electrolysis occurs with a fixed stoichiometry rate of 1 cm^3 of water consumed for every 3 Ah of overcharge. For every 1 cm^3 of water electrolyzed and exhausted, approximately 690 cm^3 of oxygen is generated on the positive electrodes and 1380 cm^3 of hydrogen on negative electrodes.

Section 4- Short Circuit

A battery's short circuit current is dependent on its state of charge and internal temperature.
- A fully charged Tel.X-Plus battery string can deliver a short circuit current in excess of 10 C_AA (i.e.: a 172 Ah Tel.X-Plus battery string can generate a short circuit current of 1720 Amps).
- Short circuit currents through an electrical conductor of any kind are high enough to melt metal and plastic. It is therefore important to your safety that all conductive jewelry or alike (rings, watches, bracelets, etc.) are removed before installing a battery.

String Instruction Sheet 80-94890-02
Tel.X-Plus Ni-Cd Battery
Typical Application: HIGH POWER, 23" RACK, GENERIC

Product Support



Safety First: Review and follow recommendations directed by NFPA 70E and OSHA CFR1910. This is a supplemental information sheet. Read the Tel.X-Plus Installation, Operation Instructions, Tel.X-Plus Installation and Operation Manual before assembly.

PARTS LIST			
ITEM	CHK	PART No.	DESCRIPTION	QTY
1		80-04788-08	BLOCK TLX+180 8-CELL	2
2		80-04788-18	BLOCK TLX+180 8-CELL	1
3		80-04788-28	BLOCK TLX+180 8-CELL	1
4		80-04788-38	BLOCK TLX+180 8-CELL	1
5		80-03979-10	BUSBAR INTERBLOCK W/TUBING (TLX)	3
6		80-04807-01	CONNECTOR INTERBLOCK TLX180-8 W/POSY	1
7		80-04698-14	KIT ADAPTER TERMINAL FRT TLX180	1
8		80-03928-40	KIT INSTALLATION Tel.X-Plus	1

INSTALLATION KIT (not shown)			
CHK	PART No.	DESCRIPTION	QTY
	80-03541-02	LABEL - TLX+ 40-CELL, TCV DISABLED	1
	80-04383-01	LABELS NUMERICAL	1
	025544-001	CORROSION INHIBITOR	1
	025583-000	SCREW, M6 X 1.0, 10MM, SS	3
	100110	WASHER SPRING M6 AC	3
	22008	INSTALLATION AND OPERATION SHEET	1

SPECIAL INSTRUCTIONS:
1. Scan QR code for Product Support Document & Battery Installation video.
2. Prior to assembly, use the CHK colume in the parts list to assure all parts & kit parts have been received.
3. ● Indicates positive terminal.
⚠1 Use "labels numerical" provided to identify each cell of the battery string. Starting with battery string positive end as cell number one, subsequently serialize the cells following the electrical path result in numbering battery string negative end cell as #40.
⚠2 Measure OCV and record using IFO sheet.
⚠3 Use corrosion preventer (No-Ox) provided to lightly coat exposed metal at all terminal and lug connections.
⚠4 Torque value: 10.8 ± .5 Nm (96 ± 4 inlb) .
⚠5 After an electrical connection is made, reinstall block cover.
⚠6 Affix "label-57.2 VDC & TCV-disabled" labels onto or near the battery string and rectifier to inform that the float voltage should be set to 57.2 VDC and TCV should be disabled.

Saft America, Inc.
711 Gil Harbin Industrial Blvd
Valdosta,Georgia, 31601 - USA
Tel: 1(229) 247 2331
Fax: (229) 247 8486

www.saftbatteries.com

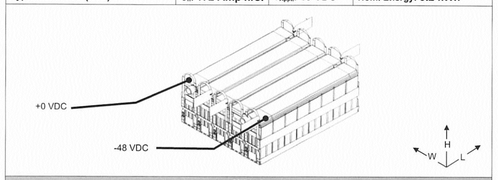
Doc. n° IO-80-94890-02
Revision: D Sheet 1 of 8
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TotalEnergies

Return to TOC

80-94890-02 Verizon

Type: TLX+180 (x40) | C_A: 172 Amp-hrs. | V_{Appl}: 48 VDC | Nom. Energy: 8.2 kWh



STRING			
Type	Saft P/N	String Dimensions (W x L x H)	(525 x 659 x 254) mm (20.67 x 25.94 x 10.00) inches
Battery String	80-94890-02		
Installation Kit	80-03928-40	String Weight	165.5 kg 365.0 lb
Bus bar	80-03979-10		
Connector Interblock w/ tubing	80-04807-01		
Kit Adapter Terminal Frt. TLX180	80-04698-14		

BLOCKS / MODULES				
Type	Saft P/N	Qty	Block Dimensions (W x L x H)	Block Weight
TLX 180-8	80-04788-08	2	(105 x 659 x 254) mm (4.13 x 25.94 x 10.00) inches	32.7 kg 72.1 lb
TLX 180-8	80-04788-18	1	(105 x 659 x 254) mm (4.13 x 25.94 x 10.00) inches	32.7 kg 72.1 lb
TLX 180-8	80-04788-28	1	(105 x 659 x 254) mm (4.13 x 25.94 x 10.00) inches	32.7 kg 72.1 lb
TLX 180-8	80-04788-38	1	(105 x 659 x 254) mm (4.13 x 25.94 x 10.00) inches	32.7 kg 72.1 lb

CELL				
Type	Saft P/N	Qty	CLEI	CPR
TLX+180	80-03832-01	40	PWHYAM8TRA	212341

Return to TOC

CFC CHAPTER 12 COMPLIANCE

TOTAL = 2 STRINGS X 8.256 kWh/STRING = 16.51 kWh

(SINCE LESS THAN 70kWh OF CAPACITY, CFC CHAPTER 1207, TABLE 1207.1.1, SECTIONS 1207.1.2–1207.11.10 NOT APPLICABLE)

BATTERY INFORMATION (BATTERY CAPACITY DATA–48V STRINGS)

BATTERY MODEL	TOTAL # OF STRINGS INSTALLED	AMP HOURS PER STRING	TOTAL VOLTS PER STRING	TOTAL kWh / # OF STRINGS x AMP HOURS PER STRING x VOLTS PER STRING / 1000
SAFT TLX+180 80–94890–02	2	172Ah	48V	2 x 172Ah x 48V/1000 = 16.51kWh < 70kWh

BATTERY DATA CHART

NEW BATTERIES

BATTERY TYPE: SAFT TLX+180 (80–94890–02)
NUMBER OF STRINGS: 2
WEIGHT: 87.2 LB/STRING X 2 = 174.4 LB
TOTAL KWH: 172AH X 48V X 2 / 1000 = 16.51 KWH

Issued For:

REDWING TRAIL

35601 SHERWOOD ROAD
WILLITS, CA 95490

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

COMPLETE Wireless Consulting, Inc.

MDG LOCATION ID:	5000968098
PROJECT ID:	17393310
DRAWN BY:	FS
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
3	10/15/25	CD 100%	J.Z.
2	09/23/25	CLIENT REV	S.D.
1	09/05/25	CD 95%	S.D.
0	06/13/25	CD 90%	S.D.

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ENGINEER:

Streamline Engineering and Design, Inc.
3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

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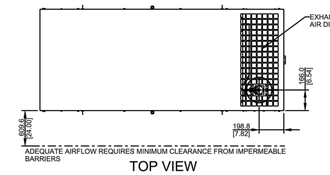
SHEET TITLE:

BATTERY SPECIFICATIONS

SHEET NUMBER:

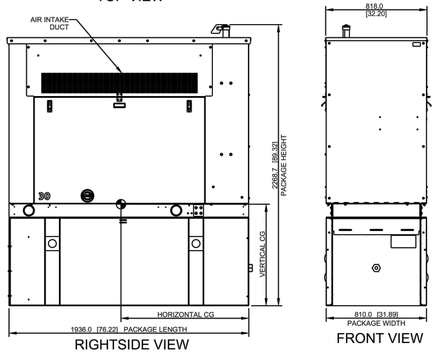
A-5.1

MODEL	ALTERNATOR	PACKAGE MAXIMUM WEIGHT (WET)	(HORIZONTAL CG) (WET)	(VERTICAL CG) (WET)	GENSET LENGTH
30	TAL042D	1050 KG [2315 LBS]	1032 [40.6]	819 [32.3]	1581 [62.3]



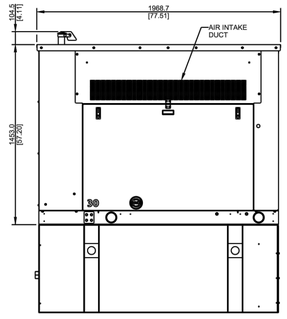
ADEQUATE AIRFLOW REQUIRES MINIMUM CLEARANCE FROM IMPERMEABLE BARRIERS

TOP VIEW

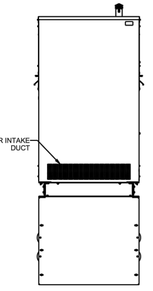


RIGHTSIDE VIEW

FRONT VIEW



LEFTSIDE VIEW



REAR VIEW

NOTE:
1.) DIMENSIONS IN [ ] ARE ENGLISH UNIT EQUIVALENTS.
2.) 6 AMP BATTERY CHARGER.
3.) 120VAC ENGINE BLOCK HEATER.
4.) 120VAC BATTERY HEATER.
5.) GENERATOR MUST BE GROUNDED.
6.) MUST ALLOW FREE FLOW OF DISCHARGE AIR AND EXHAUST.
7.) MUST ALLOW FREE FLOW OF INTAKE AIR.
8.) BASE TANK REQUIRES ALL STUB-UPS TO BE IN THE REAR TANK STUB-UP AREA.
9.) SEE TABLE ON SHEET 3 FOR SUBBASE FUEL TANK CAPACITY.
10.) TANK EQUIPPED WITH FIRE SAFETY VALVE ON FUEL SUPPLY LINE.
11.) IT IS THE RESPONSIBILITY OF THE INSTALLATION TECHNICIAN TO ENSURE THAT THE GENERATOR INSTALLATION COMPLIES WITH ALL APPLICABLE CODES, STANDARDS AND REGULATIONS.
12.) GENERATOR IS INSTALLED ON A UL-142 RATED DOUBLE WALL SUBBASE FUEL TANK.

REV	DATE	ON COMPOSITE DWGS, SEE PART NO. FOR REVISION LEVEL ☐ INDICATES PART NUMBERS AFFECTED BY LATEST DRAWING REVISION	BY
-	11MAR2024	RELEASE FOR PRODUCTION	PBG
A	10NOV2024	(D-8) CLEARANCE NOTE UPDATED, (B-4) 881.0 REMOVED, SEE SHEET 3	JBZ

DO NOT SCALE.
THIS ASSEMBLY OR PART MUST COMPLY WITH PEP-RML-001. REFERENCE CAD MODEL FOR UNSPECIFIED DIMENSIONS.

rehlko

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS IN MILLIMETERS GENERAL TOLERANCES: X.XX ±0.25, X.X ±1.0, ANGLES ±0° 30', BEND ANGLES ± 1°. SURFACE FINISH: MAX.

MAJOR ○ 0, CRITICAL ● 0, THIRD ANGLE PROJECTION

CHARACTERISTICS COMPLY WITH KPS-80022

SCALE: 0.05 SHEET SIZE: B SHEET: 1 OF 3

DRAWN: PBG DATE:

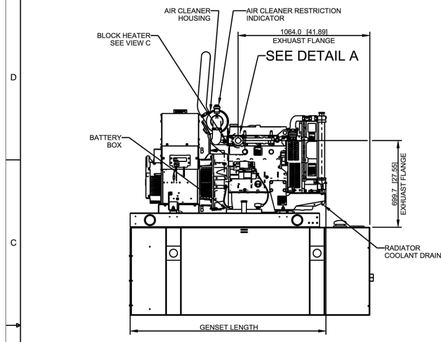
APPROVED: SEE PLM SYSTEM 11MAR2024

TITLE: DIMENSION PRINT

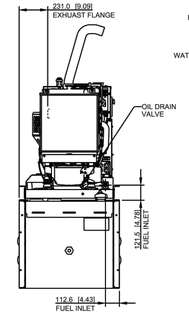
DWG NO.: ADV-10037

VERIZON
30KW KD30TC
ENCLOSURE WITH
STANDARD TANK

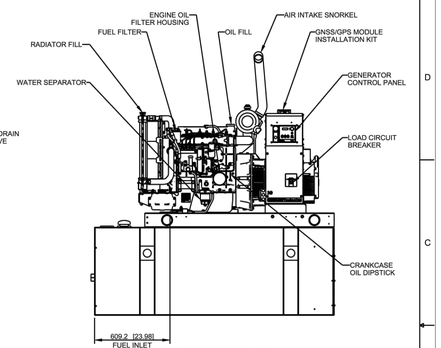
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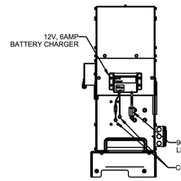
RIGHTSIDE VIEW

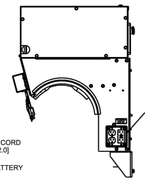


FRONT VIEW

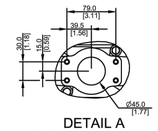


LEFTSIDE VIEW





SECTION B-B
BATTERY CHARGER
SCALE 0.08



DETAIL A
EXHAUST FLANGE
SCALE 0.25



VIEW C
BLOCK HEATER
SCALE 0.150

REV	DATE	ON COMPOSITE DWGS, SEE PART NO. FOR REVISION LEVEL ☐ INDICATES PART NUMBERS AFFECTED BY LATEST DRAWING REVISION	BY
-	11MAR2024	RELEASE FOR PRODUCTION	PBG
A	10NOV2024	SEE SHEETS 1 & 3	JBZ

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rehlko

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS IN MILLIMETERS GENERAL TOLERANCES: X.XX ±0.25, X.X ±1.0, ANGLES ±0° 30', BEND ANGLES ± 1°. SURFACE FINISH: MAX.

MAJOR ○ 0, CRITICAL ● 0, THIRD ANGLE PROJECTION

CHARACTERISTICS COMPLY WITH KPS-80022

SCALE: 0.05 SHEET SIZE: B SHEET: 2 OF 3

DRAWN: PBG DATE:

APPROVED: SEE PLM SYSTEM 11MAR2024

TITLE: DIMENSION PRINT

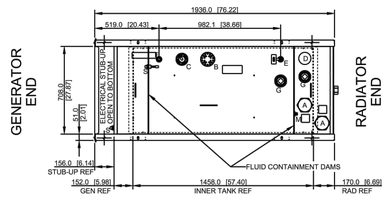
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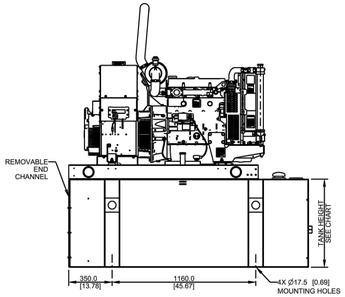
VERIZON
30KW KD30TC
ENCLOSURE WITH
STANDARD TANK

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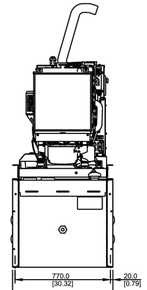
MODEL	TANK P/N	TANK HEIGHT	DESCIPTION	ASSY WEIGHT
30	10503026800-KA1	711.2 [28.00]	STANDARD TANK, 147 GAL	465 KG [1005 LBS]

TANK FITTINGS:
A. 3" NPT EMERGENCY VENT FITTING PER NFPA 30 WITH VENT CAPS (QTY 2).
B. 2" NPT WATER TIGHT FUEL FILL FITTING WITH LOCKABLE CAP AND 3" RISER.
C. 2" NPT FOR FUEL LEVEL SENDING UNIT WITH MECHANICAL INDICATOR NEEDLE.
D. 2" NPT NORMAL VENT FITTING WITH MUSHROOM VENT CAP AND 5" RISER.
E. 1/2" NPT FITTING FOR REMOVABLE ENGINE SUPPLY DIP TUBE (3/8" NPT FEMALE WITH CHECK & FIRE SAFETY VALVES AND LOCKOUT COVER).
F. 1/2" NPT ADDITIONAL FITTING FOR OPTIONAL ACCESSORY (INSTALL STEEL 1/2" NPT PIPE PLUG).
G. 2" NPT ADDITIONAL FITTING FOR OPTIONAL ACCESSORY (INSTALL STEEL 2" NPT PIPE PLUG) (QTY 2).
M. 1/2" NPT BASIN DRAIN (INSTALL STEEL 1/2" NPT PIPE PLUG)
S. 1/2" NPT FITTING FOR ENGINE FLUID CONTAINMENT BASIN FLOAT SWITCH (QTY 2).





RIGHTSIDE VIEW



FRONT VIEW

REV	DATE	ON COMPOSITE DWGS, SEE PART NO. FOR REVISION LEVEL ☐ INDICATES PART NUMBERS AFFECTED BY LATEST DRAWING REVISION	BY
-	11MAR2024	RELEASE FOR PRODUCTION	PBG
A	10NOV2024	(D-6) FLUID CONTAINMENT DAMS NOTE ADDED, SEE SHEET 1.	JBZ

DO NOT SCALE.
THIS ASSEMBLY OR PART MUST COMPLY WITH PEP-RML-001. REFERENCE CAD MODEL FOR UNSPECIFIED DIMENSIONS.

rehlko

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS IN MILLIMETERS GENERAL TOLERANCES: X.XX ±0.25, X.X ±1.0, ANGLES ±0° 30', BEND ANGLES ± 1°. SURFACE FINISH: MAX.

MAJOR ○ 0, CRITICAL ● 0, THIRD ANGLE PROJECTION

CHARACTERISTICS COMPLY WITH KPS-80022

SCALE: 0.05 SHEET SIZE: B SHEET: 3 OF 3

DRAWN: PBG DATE:

APPROVED: SEE PLM SYSTEM 11MAR2024

TITLE: DIMENSION PRINT

DWG NO.: ADV-10037

VERIZON
30KW KD30TC
ENCLOSURE WITH
STANDARD TANK

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KD30TC

60 HZ. DIESEL INDUSTRIAL GENERATOR SET
EMISSION DATA SHEET

ENGINE INFORMATION

Model:	S4S-Y361KGBE	Bore, mm (in.)	94 (3.70)
Nameplate BHP @ 1800 RPM:	46.4	Stroke, mm (in.)	120 (4.72)
Type:	4-Cycle, 4 Cyl., Inline	Displacement, L (cu. In.)	3.331 (203)
Aspiration:	Naturally Aspirated		
Compression Ratio:	22:1	EPA Family:	SMVXL03.3AAK
		EPA Certificate:	SMVXL03.3AAK-012

PERFORMANCE DATA:	
Engine bkW @ 1800 RPM	34.6
Fuel Consumption (Lph) @ 100% Load (Standby)	9.8
Exhaust Gas Flow (m³/min)	7.0
Exhaust Temperature (°C)	550

EXHAUST EMISSION DATA:	EPA D2 Cycle 5-mode Weighted
NMHC	0.10
CO2	754
NOx (Oxides of Nitrogen as NO_2)	6.63
CO (Carbon Monoxide)	0.50
PM (Particulate Matter)	0.26

Values are in g/kWh unless otherwise noted

TEST METHODS AND CONDITIONS

The emission data listed is measured from a laboratory test engine according to the test procedures of 40 CFR 89 or 40 CFR 1039, as applicable. The test engine is intended to represent nominal production hardware, and there is no guarantee that every production engine will have identical test results. Emission results may vary due to engine manufacturing tolerances, engine operating conditions, fuels used, alternate test methods, or other conditions.

Issued For:

REDWING TRAIL

35601 SHERWOOD ROAD
WILLITS, CA 95490

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

COMPLETE Wireless Consulting, Inc.

MDG LOCATION ID:	5000968098
PROJECT ID:	17393310
DRAWN BY:	FS
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
3	10/15/25	CD 100%	J.Z.
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Licensee:

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ENGINEER:

Streamline Engineering and Design, Inc.
3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

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SHEET TITLE:

GENERATOR SPECIFICATIONS

SHEET NUMBER:

A-5.2

Clay & Bailey Mfg. Co.

A CENTURY'S WORTH OF INNOVATION

367 Male Thread High Flow Emergency Vent for Aboveground Storage Tanks



367 HF

Features:

All Aluminum Construction is lightweight for easy handling and installation. Also, no rust issues from scratches or weathering. Buna-N O Ring provides a vapor resistant seal. Spring Actuated Vent assures accurate opening pressure. Pressure relief set at <0.5 PSI. Clay & Bailey vents can be used in a variety of Aboveground Storage Tank Equipment installations where reliable fuel handling petroleum equipment is required.

Part #	Size	Weight /lbs.
0367-03-30HF	3"	3
0367-03-40HF	4"	4
0367-03-50HF	5"	5
0367-03-60HF	6"	6
0367-03-80HF	8"	7

Airflow

Size	W/Screen	W/O Screen
3"	66,400 SCFH	71,750 SCFH
4"	114,800 SCFH	118,750 SCFH
5"	184,500 SCFH	200,250 SCFH
6"	237,000 SCFH	251,700 SCFH
8"	500,552 SCFH	556,539 SCFH

c UL US LISTED

Clay & Bailey emergency vents comply with various codes – Petroleum Equipment Institute PEI RP200; Underwriters Laboratories Inc. UL-142, UL-2085, UL-2244, UL-2583; Underwriters Laboratories of Canada ULC-S601; National Fire Protection Agency NFPA 30, NFPA 30A; American Petroleum Institute API 2000.

Patent# 8171955

10/2018

Clay & Bailey Mfg. Co.

A CENTURY'S WORTH OF INNOVATION

401

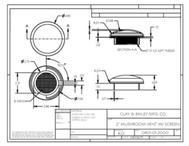
Mushroom Vent



401

Features:

Mushroom style free flow vent is made of cast iron with a 8 mesh galvanized screen. Domed vent top prevents tank contamination from entering vent lines. NPT thread is standard. Also available in galvanized. (Shown)



Cast iron Black

Part No.	Size	lbs	SCFH@ 2.5psi	A	B
0401-01-0750	3/4"	0.3	4,894	3/4"	1"
0401-01-1000	1"	0.5	8,711	1"	1 1/8"
0401-01-1250	1 1/4"	0.6	13,616	1 1/4"	1 1/2"
0401-01-1500	1 1/2"	0.7	19,532	1 1/2"	1 9/16"
0401-01-2000	2"	1.1	38,846	2"	1 11/16"
0401-01-4000	4"	2.5	54,873	4"	3"

Galvanized

Part No.	Size	lbs	2.5psi	A	B
0401-10-0750	3/4"	0.3	4,894	3/4"	1"
0401-10-1000	1"	0.5	8,711	1"	1 1/8"
0401-10-1250	1 1/4"	0.6	13,616	1 1/4"	1 1/2"
0401-10-1500	1 1/2"	0.7	19,532	1 1/2"	1 9/16"
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6401 E. 40th St., Kansas City, Mo. 64129 • 1-800-821-6583 • F: 816-924-3903 • www.claybailey.com

Rochester Sensors
Engineering Innovative Solutions

Adjustable Liquid-Level Gauges

Applications

The 6500 Series Senior gauges are de signed for use in low pres sure tanks 0-25 psig [0-1,7Bar] containing diesel fuel, gasoline, fuel oil and lubricating oils.

Used in many ap pli ca tions such as con struc tion equip ment, sta tion ary gen er a tors, boats, farm equip ment and home heat ing.gauges may be easily converted remote output by simply installing the R3D replacement dial and plug-in Hall Effect sender module.

General Information & Features

The 6500 Series Adjustable Senior gauges are avail able in gear-action mod els for top mounting.

The standard float is nitrile rubber. The gauge is mount ed to a mating Se nior flange 2 1/2" bolt circle [63,5mm] using four 1/4"-28 x 9/16" long bolts. The gasket is Buna-N

Models #	Mounting	Dial, sender or Switch Data	Support Length "S"
6580-0151	Top	500250¯379 Senior direct-reading fractional dial	3"
6540-00090		58805025479 (0-90 Ohms)	3"
6540-00252		5AVHS03213P (240-30 Ohms)	3-5/8"



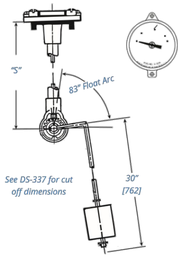
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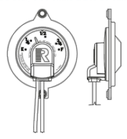
Manufacturing Worldwide

Rochester Sensors
Engineering Innovative Solutions

Direct reading gauge with 5002501379 dial



TwinSite® Dial, 0-90 ohms & 240-30 ohms



Parts #	Description	Ohms
588050254	Wire Leads	0-90
5AVHS03213P	Wire Leads	240-30

*General Specifications**

Accuracy
Accuracy depends upon proper gauge sizing. Senior dials ±7%, TwinSite® dials ±12%. Accuracy may be less depending upon tank shape. Accuracy may be less near full and empty. Accuracy may be less if tank is not level. This gauge is not to be used for filling. All accuracy estimates are expressed as a percent of full scale.

Temperature Range
-40°F to +158°F, -40°C to 70°C.

Humidity
Paint exposed portions of gauge, less dial, for marine applications.

Shock & Vibration
Suitable for mobile applications.

Power
0.5 watts maximum for TwinSite® versions.

Tank Pressure
Up to 25 psig [1,7 Bar]

Approvals
These direct indicating gauges are UL listed for flammable liquids. Some models UL recognized for marine service.

Note: For installation instructions see MS-501/502 (Mounting standards).

*Materials of Construction**

Head
Die cast aluminium.

Centershaft, Support Tube & Float Rod
Tempered aluminum.

Gears, Cross Stud & Bearings
Stainless Steel.

Drive Magnet
Alnico.

Gear Housing
Acetal plastic or aluminum.

Float
Nitrile rubber

Gasket
Buna-N, 0015-00004 or 0015-00079

Direct Reading Dial
Aluminum with polycarbonate crystal, hermetically sealed.

Side Reading Dial
Aluminum with polycarbonate crystal, hermetically sealed.

TwinSite® Sender
Polyamide.

Mounting Bolts
Zinc-plated steel ¼ "-28 x 9/16" long.

When ordering, specify:

1. Gauge model number.
2. Tank diameter and riser height.
3. Mounting location.
4. Ohm range on Twinsite® versions.
5. Preferred switch on switch gauges, if other than standard.
6. Any listed options or preferences.

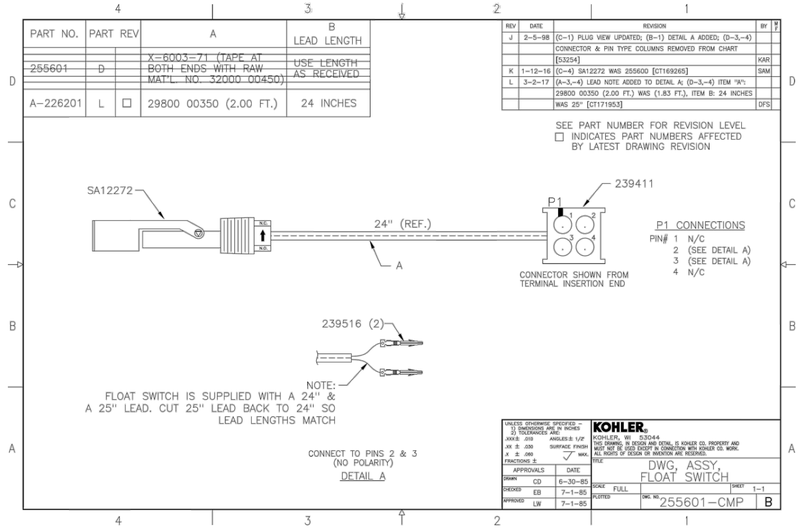
Note: Materials and specifications are subjected to change without notice. Pressure ratings subject to change due to temperature and other environmental considerations.

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REDWING TRAIL

35601 SHERWOOD ROAD
WILLITS, CA 95490

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

COMPLETE Wireless Consulting, Inc.

MDG LOCATION ID:	5000968098
PROJECT ID:	17393310
DRAWN BY:	FS
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
3	10/15/25	CD 100%	J.Z.
2	09/23/25	CLIENT REV	S.D.
1	09/05/25	CD 95%	S.D.
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Contact: Kevin Sorensen, Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

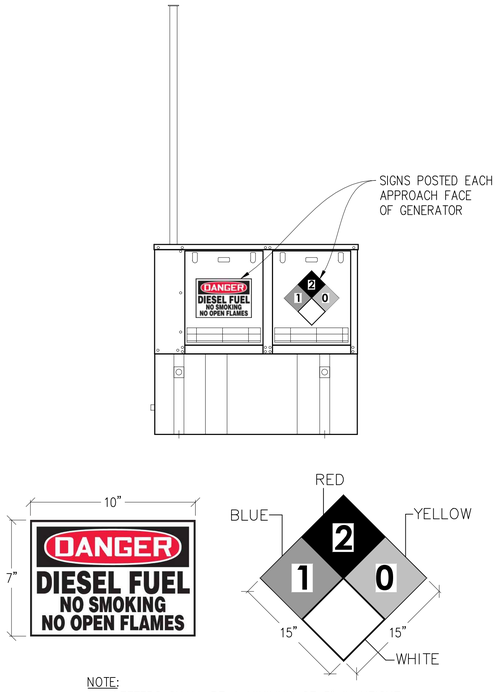
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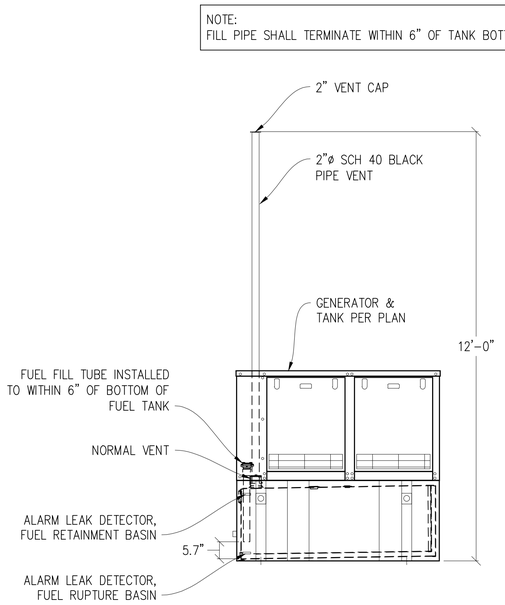
A-5.3



NOTE:
1. LETTERS SHALL BE A MINIMUM OF 3" IN HEIGHT
2. SIGN TO BE PLACED ON ALL SIDES OF GENERATOR
3. 10"x14" ALUMINUM NO SMOKING SIGN

1 GENERATOR SAFTEY SIGNAGE

NOT TO SCALE



2 GENERATOR VENT & FILL DETAIL

½"=1'-0"

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REDWING TRAIL

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verizon

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S6336
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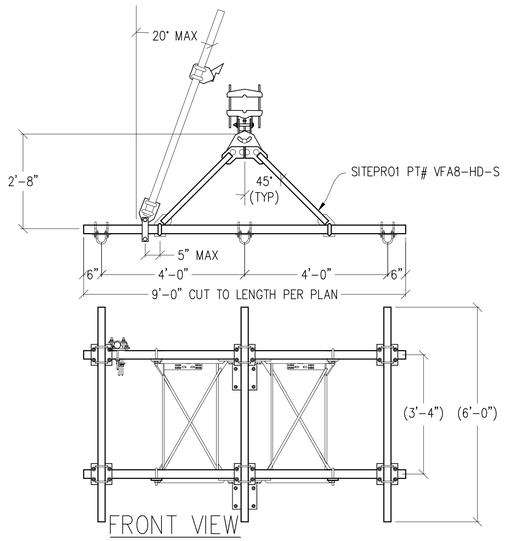
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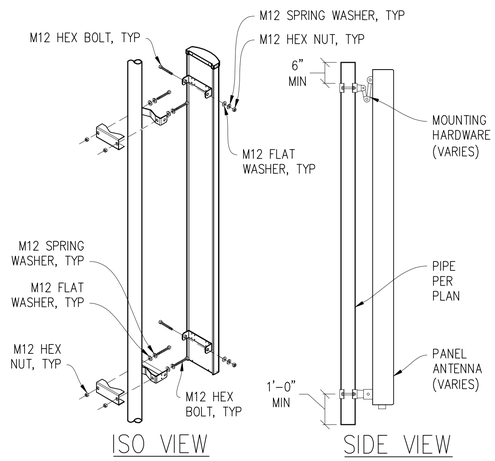
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A-5.4



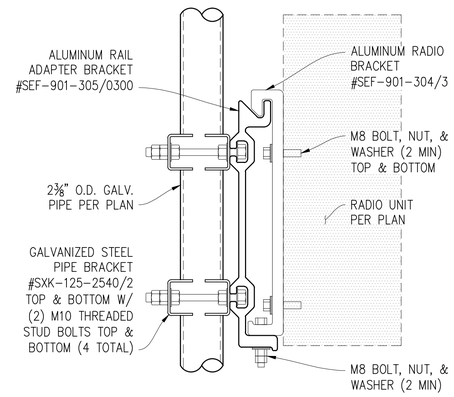
1 V-FRAME ASSEMBLY DETAIL

½"=1'-0"



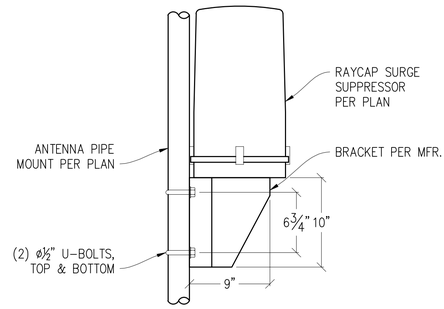
2 ANTENNA MOUNT

1"=1'-0"



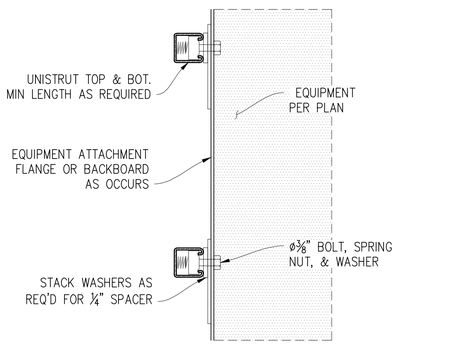
3 RADIO UNIT MOUNTING

3"=1'-0"



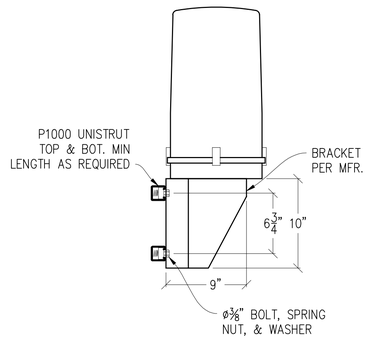
4 SURGE PIPE MOUNT

1½"=1'-0"



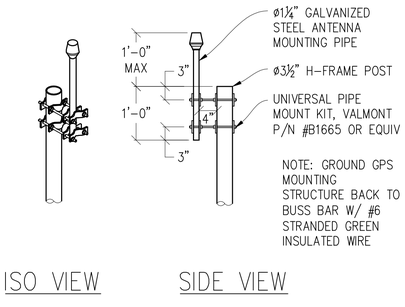
5 EQUIPMENT MOUNTING

3"=1'-0"



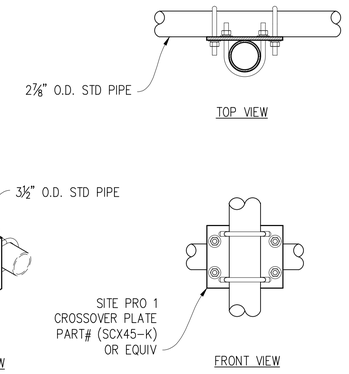
6 SURGE MOUNT

1½"=1'-0"



7 GPS MOUNT DETAIL

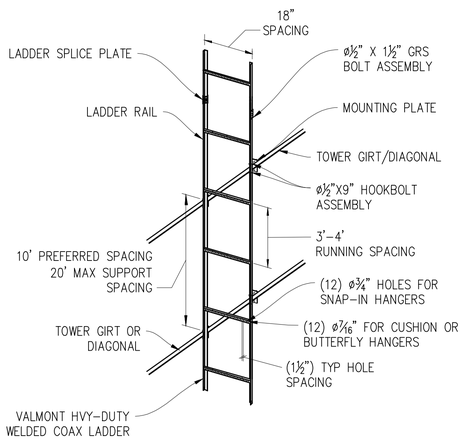
¾"=1'-0"



8 CROSSOVER PLATE

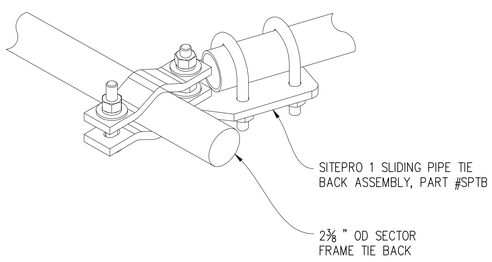
1½"=1'-0"

MAX WEIGHT: 9.92 LBS



9 CABLE LADDER TO TOWER

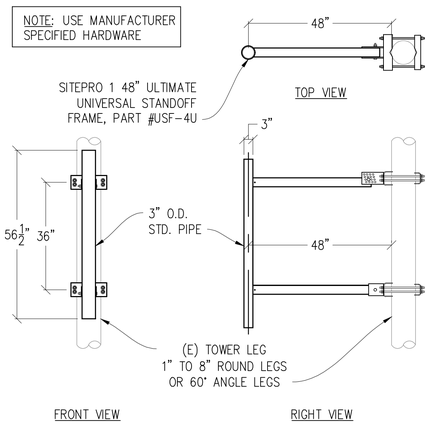
NOT TO SCALE



10 PIPE TIE BACK DETAIL

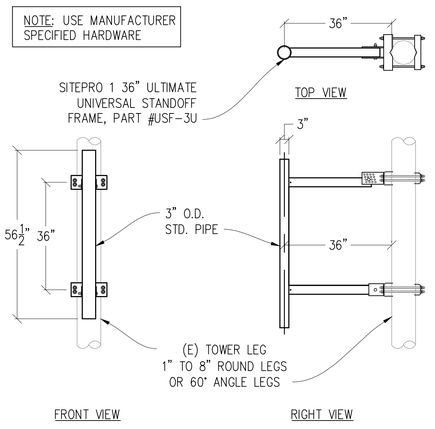
3"=1'-0"

WEIGHT: 88.49 LB



11 TOWER STANDOFF FRAME

½"=1'-0"



12 TOWER STANDOFF FRAME

½"=1'-0"

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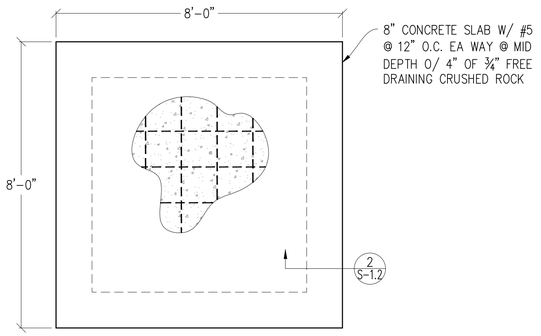
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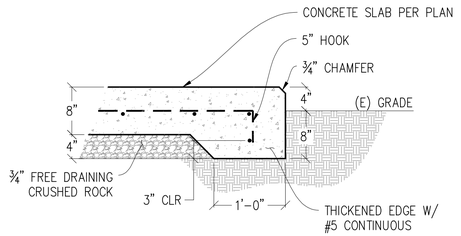
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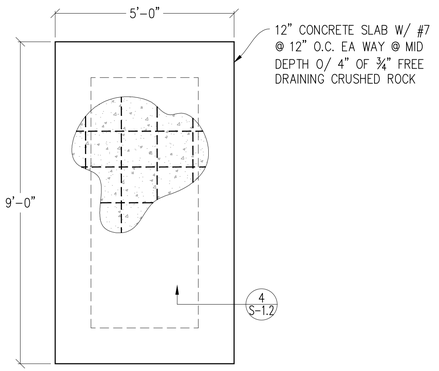
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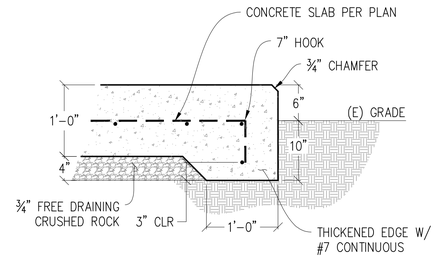
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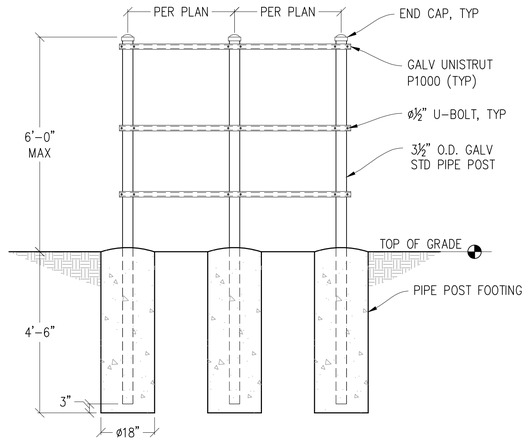






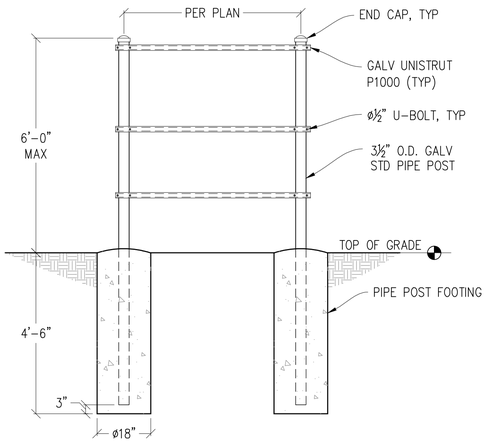
1 CONC. SLAB DETAIL

½"=1'-0"



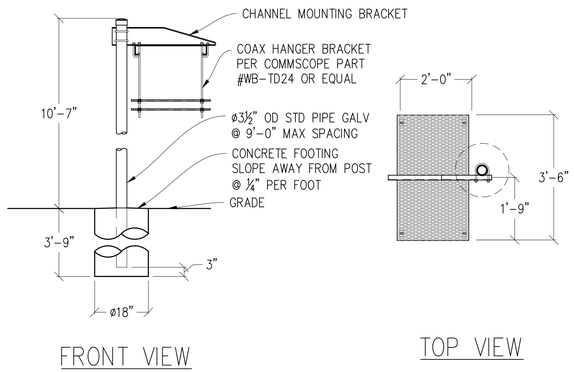
2 THICKENED EDGE SLAB

1"=1'-0"



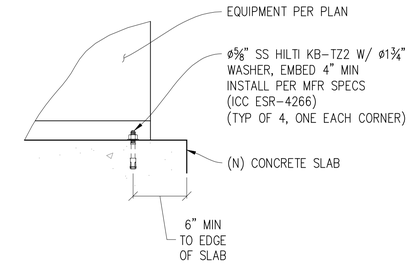
3 CONC. SLAB DETAIL

½"=1'-0"



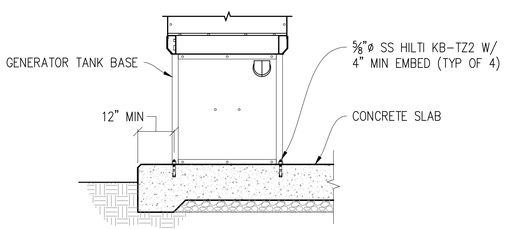
4 THICKENED EDGE SLAB

1"=1'-0"



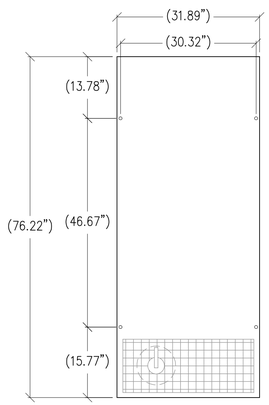
5 H-FRAME DETAIL

½"=1'-0"



6 H-FRAME DETAIL

½"=1'-0"



7 ICE BRIDGE DETAIL

½"=1'-0"

8 CABINET TO CONC

1½"=1'-0"

9 GENERATOR ANCHORAGE

½"=1'-0"

10 GENERATOR ANCHOR LOCATIONS

¾"=1'-0"

Issued For:

REDWING TRAIL

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WILLITS, CA 95490

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

COMPLETE Wireless Consulting, Inc.

MDG LOCATION ID:	5000968098
PROJECT ID:	17393310
DRAWN BY:	FS
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
3	10/15/25	CD 100%	J.Z.
2	09/23/25	CLIENT REV	S.D.
1	09/05/25	CD 95%	S.D.
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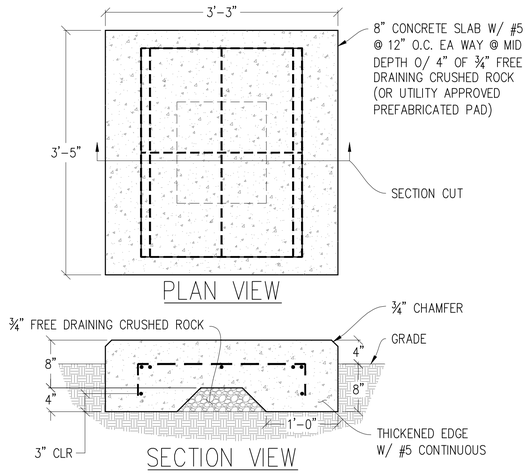
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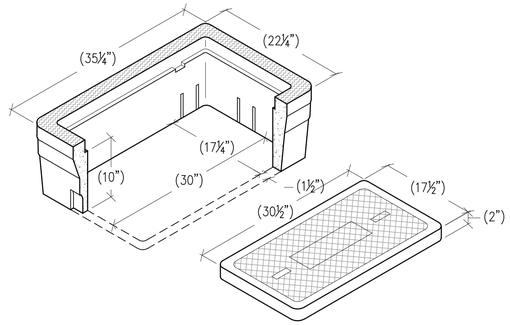
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S-1.2



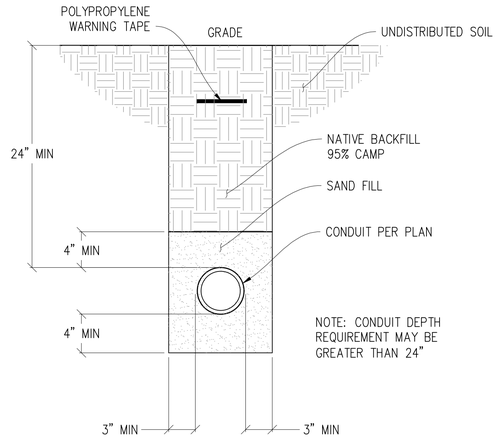
1 TRANSFORMER PAD DETAIL

1"=1'-0"



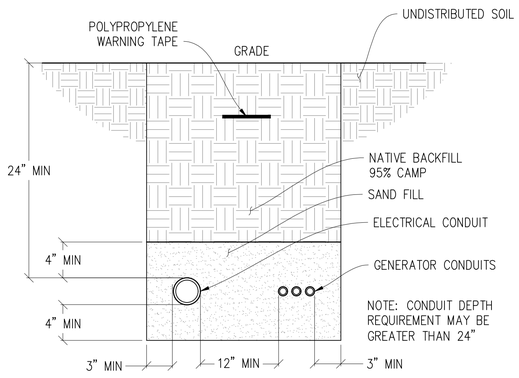
2 P36 SPLICE BOX

N.T.S. ½"=1'-0"



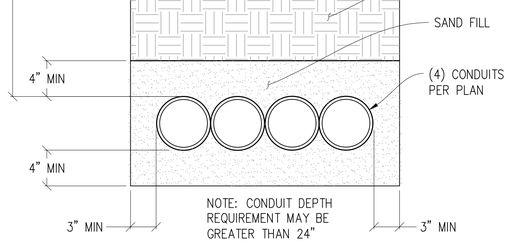
3 CONDUIT TRENCH DETAIL

1½"=1'-0"



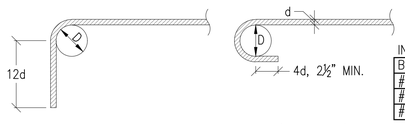
4 CONDUIT TRENCH DETAIL

1½"=1'-0"



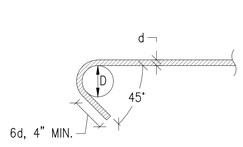
5 CONDUIT TRENCH DETAIL

1½"=1'-0"



TYPICAL (U.O.N)

INSIDE BEND DIAMETER	
BAR SIZE	D
#3 TO #8	6d
#9,#10,#11	8d
#14,#18	10d



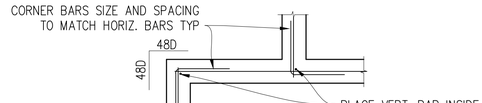
INSIDE BEND DIAMETER	
BAR SIZE	D
#3	1½"
#4	2"
#5	2½"

STIRRUPS & TIES

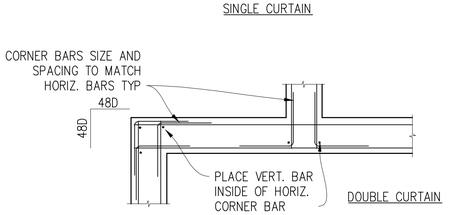
NOTE: ALL BARS BENT COLD– NO FIELD BENDING ALLOWED EXCEPT WHERE SPECIFICALLY SHOWN ON DRAWINGS

6 TYP. STD HOOKS & BEND IN REINF. STEEL

1½"=1'-0"



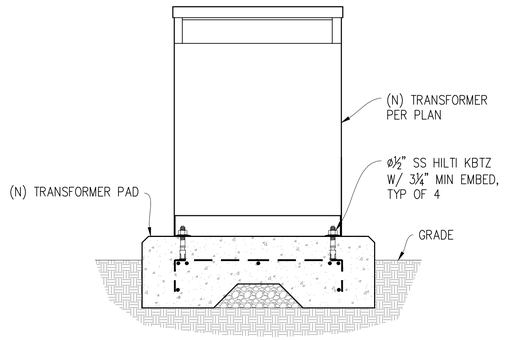
SINGLE CURTAIN



DOUBLE CURTAIN

7 TYPICAL FOUNDATION CORNER REINFORCING

½"=1'-0"



8 TRANSFORMER ANCHORAGE

1"=1'-0"

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REDWING TRAIL

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WILLITS, CA 95490

PREPARED FOR

verizon

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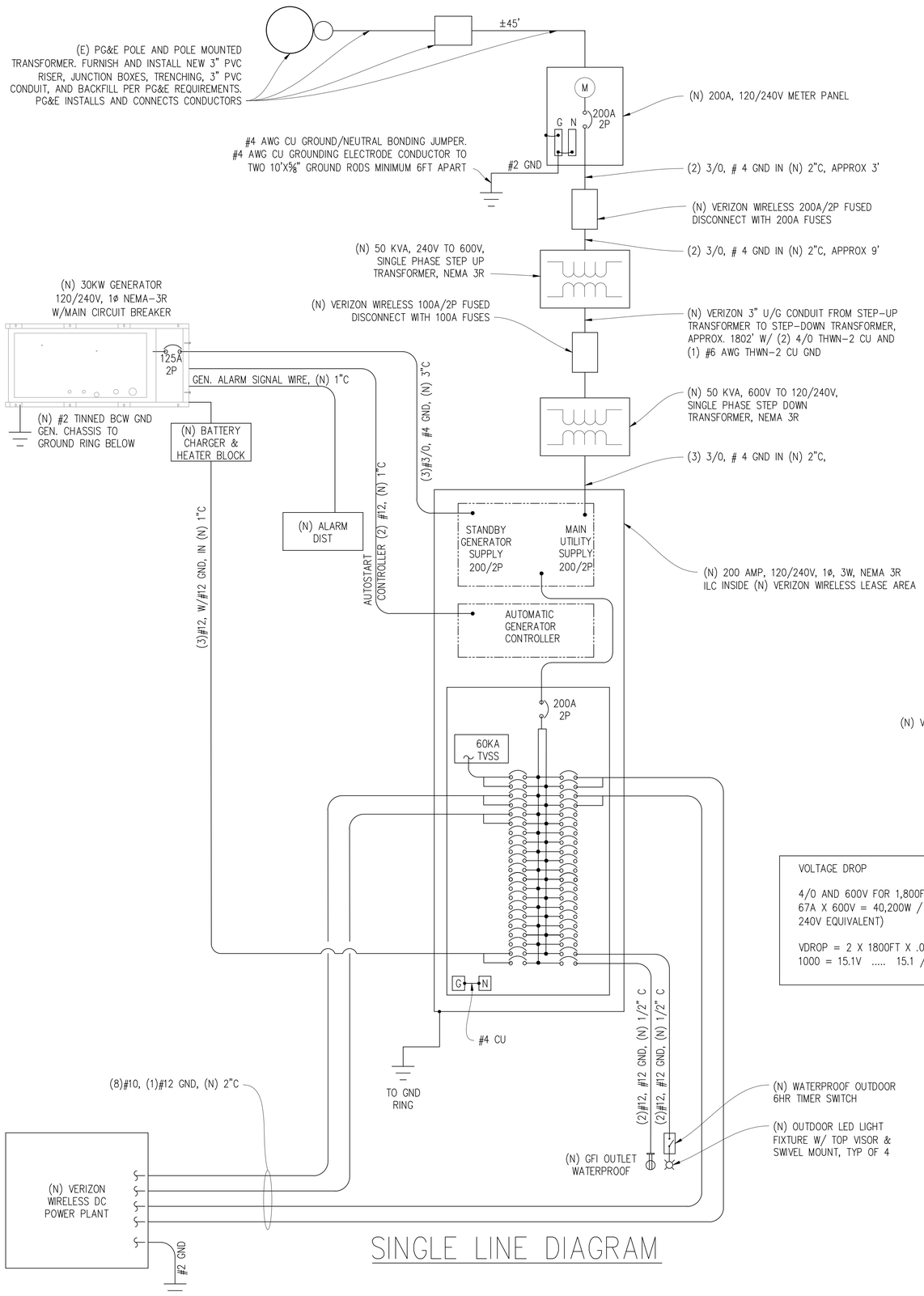
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SHEET TITLE:

STRUCTURAL DETAILS

SHEET NUMBER:

S-1.3



SINGLE LINE DIAGRAM

VOLTAGE DROP

4/0 AND 600V FOR 1,800FT WITH 67A (OR .... 67A X 600V = 40,200W / 240V = 167.5A AT 240V EQUIVALENT)

VDROP = 2 X 1800FT X .0626OHM X 67A / 1000 = 15.1V ..... 15.1 / 600 = 2.5%

ELECTRICAL NOTES

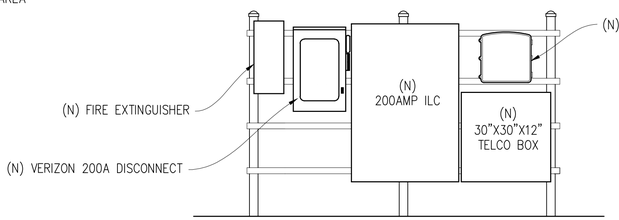
1. ALL ELECTRICAL WORK SHALL CONFORM TO THE 2022 CEC AS WELL AS ALL ADOPTED STANDARDS, APPLICABLE STATE AND LOCAL CODES.
2. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, CONDUCTORS, PULL BOXES, TRANSFORMER PADS, POLE RISERS, AND PERFORM ALL TRENCHING AND BACKFILLING REQUIRED IN THE PLANS.
3. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER PLAN SPECIFICATIONS.
4. ALL CIRCUIT BREAKERS, FUSES, AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTION RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED WITH A MINIMUM OF 10,000 A.I.C. OR AS REQUIRED.
5. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES.
6. ELECTRICAL WIRING SHALL BE COPPER #12 AWG MIN WITH TYPE THHN, THWN-2 OR THW-2, INSULATION RATED FOR 90°C DRY OR 70°C WET.
7. ALL OUTDOOR EQUIPMENT SHALL HAVE NEMA 3R ENCLOSURE.
8. ALL BURIED WIRE SHALL RUN THROUGH SCHEDULE 40 PVC CONDUIT UNLESS OTHERWISE NOTED.
9. A GROUND WIRE IS TO BE PULLED IN ALL CONDUITS.
10. WHERE ELECTRICAL WIRING OCCURS OUTSIDE A STRUCTURE AND HAS THE POTENTIAL FOR EXPOSURE TO WEATHER, WIRING SHALL BE IN WATERTIGHT GALVANIZED RIGID STEEL OR FLEXIBLE CONDUIT.
11. WHERE PLANS CALL FOR A NEW ELECTRICAL SERVICE, PRIOR TO SUBMITTING BID, CONTRACTOR SHALL VERIFY PLAN DETAILS WITH THE UTILITY'S SERVICE PLAN & REQ'MTS INCLUDING SERVICE VOLTAGE, METER LOCATION, MAIN DISCONNECTING MEANS, AND AIC REQ'MT, AND SHALL OBTAIN CLARIFICATION FROM THE PROJECT ENGINEER ON ANY DEVIATIONS FOUND IN THESE PLANS.
12. WHERE THESE PLANS SHOW A DC POWER PLANT, THE INSTALLATION OPERATING AT LESS THAN 50 VDC UNGROUNDED, 2-WIRE, SHALL COMPLY WITH ARTICLE 720, AS FOLLOWS:
    A. POWER PLANT SHALL BE SUPPLIED BY THE WIRELESS CARRIER AS A PULL-TAG ITEM AND INSTALLED BY THE CONTRACTOR.
    B. CONDUCTORS SHALL NOT BE SMALLER THAN #12 AWG COPPER MIN, CONDUCTORS FOR BRANCH CIRCUITS SUPPLYING MORE THAN ONE APPLIANCE SHALL BE 10 AWG CU MIN; CONTRACTOR SHALL SIZE CONDUCTORS BASED ON MFGR'S DATA FOR THE APPLIANCES SERVED.
    C. THERE ARE NO DC RECEPTACLES OR LUMINARIES ALLOWED ON THIS PROJECT. ALL CIRCUITS SHALL ORIGINATE AT AN INTEGRATED DOUBLE LUG TAP OR SOCKET TERMINATION ON AN INTEGRATED DC CIRCUIT BREAKER AT AN INDIVIDUAL RECTIFIER MODULE AND TERMINATE AT THE SPECIALIZED LUG ON THE RESPECTIVE APPLIANCE AS A SINGLE RUN OF WIRE WITHOUT SPLICES. ALL DC WIRING SHALL BE LABELED AT THE DC PLANT WITH THE APPLIANCE SERVED AND THE DC VOLTAGE.
    D. ALL CABLING SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER AND SUPPORTED BY BUILDING STRUCTURE, EG. (N) CABLE TRAY OVERHEAD, IN SUCH A MANNER THAT THE CABLE WILL NOT BE DAMAGED BY NORMAL USE.

ELECTRICAL LABELING REQUIREMENTS

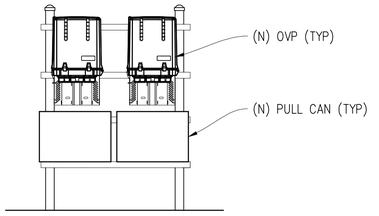
1. CONTRACTOR SHALL LABEL ALL ELECTRICAL DEVICES INSTALLED OR ALTERED PURSUANT TO THIS CONTRACT PER THE FOLLOWING. LABELS SHALL BE PERMANENT BLACK ON WHITE PEEL & STICK LABEL MAKER TYPE FOR ALL SWITCH & OUTLET PLATES, CONDUITS AND CEILING FIXTURES, AND SHALL BE PHENOLIC TAG TYPE FOR PANELS, XFMR's, PULL BOXES, ETC.; PHENOLIC TAGS SHALL BE RED IN COLOR WHERE BACKED UP BY GENERATOR
2. ALL PANELS, XFMR's AND PULL BOXES SHALL BE LABELED WITH DEVICE 'NAME', VOLTAGE(S), RATING FOR XFMR's, AND "FED FROM" DATA.
3. ALL SWITCH & OUTLET PLATES SHALL BE LABELED WITH "FED FROM" CIRCUIT DATA (PANEL NAME & CIRCUIT#); ALL GANG SWITCHES SHALL BEAR SWITCH NUMBERS BEGINNING W/#1 ON LEFT OF THE MAIN LIGHTING SWITCH FOR EACH ROOM FOR COORDINATION W/FIXTURE LABELS.
4. ALL (N) OR RETROFITTED LIGHTING FIXTURES SHALL BE LABELED WITH THE "FED FROM" DATA (SWITCH#)
5. ALL CONDUITS EXITING A PANEL BOARD SHALL BE LABELED "CIRCUIT(S) 'X'..." WHERE X IS/ARE THE BREAKER#(S). CONDUITS EXITING XFMR'S SHALL BE LABELED "FEEDER TO <PANEL, DEVICE>", E.G. "FEEDER TO PANEL <panel name>. CONDUITS ENTERING/EXITING A ROOM OR FLOOR SHALL BE LABELED AT THE ENTRY & EXIT (OR IN A SINGLE LOCATION IF OBVIOUS) W/"FED FROM..." & "TO PANEL/XFMR/..."DATA.
6. "FED FROM: DATA = <panel name> <brkr#> EG: "PANEL X/1,3,5")

ELECTRIC LEGEND

- M — METER
- CIRCUIT BREAKER
- SERVICE GROUND
- WIRED CONNECTION
- TIMER SWITCH, WATERPROOF
- OUTDOOR LIGHT
- GFI OUTLET, WATERPROOF



UTILITY ELEVATIONS



UTILITY ELEVATIONS

PANEL SCHEDULE

NAMEPLATE : PANEL A			SC LEVEL : 22,000				VOLTS: 120V/240V, 1ø		
LOCATION : OUTSIDE							BUS AMPS: 200A		
MOUNTING : H-FRAME							MAIN CB: 200A		
øA	øB		BKR AMP/ POLE	CIRCUIT NO		BKR AMP/ POLE		øA	øB
LOAD VA	LOAD VA	LOAD DESCRIPTION					LOAD DESCRIPTION	LOAD VA	LOAD VA
30		SURGE ARRESTOR	60/2	1	2	30/2	(N) DC POWER PLANT	2292	
	30	" "	" "	3	4	" "	" "		2292
2292		(N) DC POWER PLANT	30/2	5	6	30/2	" "	2292	
	2292	" "	" "	7	8	" "	" "		2292
2292		" "	30/2	9	10	–	BLANK		
	2292	" "	" "	11	12	–	" "		
		BLANK	–	13	14	–	" "		
		" "	–	15	16	–	" "		
		" "	–	17	18	–	" "		
		" "	–	19	20	–	" "		
		" "	–	21	22	–	" "		
		" "	–	23	24	–	" "		
		" "	–	25	26	–	" "		
		" "	–	27	28	–	" "		
		" "	–	29	30	–	" "		
		" "	–	31	32	–	" "		
		" "	–	33	34	–	" "		
		" "	–	35	36	–	" "		
		" "	–	37	38	–	" "		
1000		(N) GEN. HEATER	20/1	39	40	20/1	LIGHTS		300
	300	(N) GEN. BATTERY CHARGER	20/1	41	42	20/1	GFI RECEPTACLE	180	
5614	4914	PHASE TOTALS					PHASE TOTALS	4764	4884
TOTAL VA =	20176	TOTAL AMPS =	84						
TOTAL KVA =	20.18								

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WILLITS, CA 95490

PREPARED FOR

verizon

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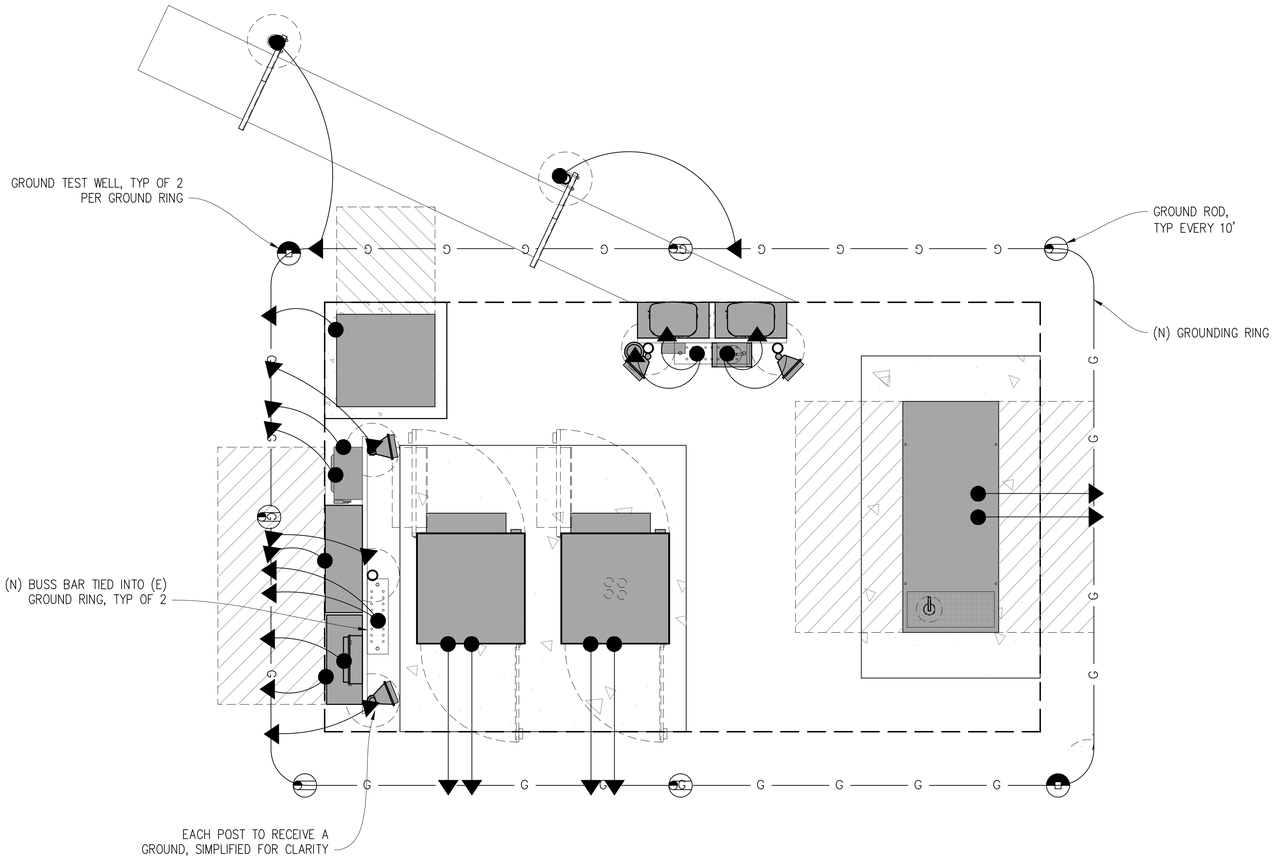
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SHEET TITLE:

ELECTRICAL PLAN

SHEET NUMBER:

E-1.1



TN

EQUIPMENT GROUNDING PLAN

½"=1'-0"

0 6" 1' 2' 3' 5' 7' 10'

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E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

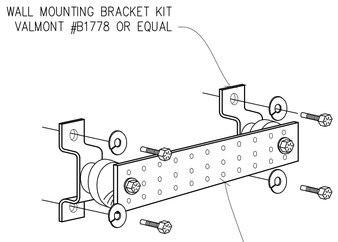
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SHEET TITLE:

GROUNDING PLAN

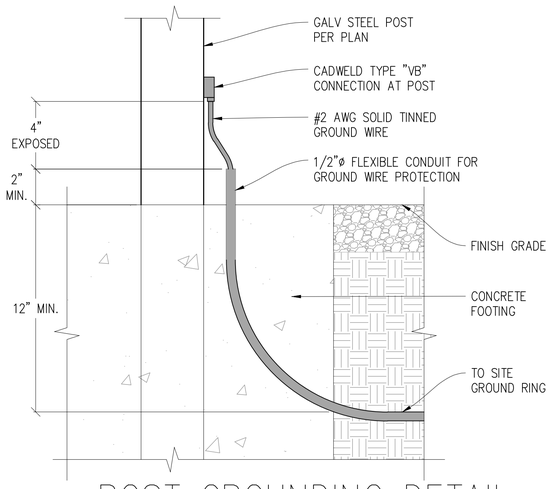
SHEET NUMBER:

E-1.2



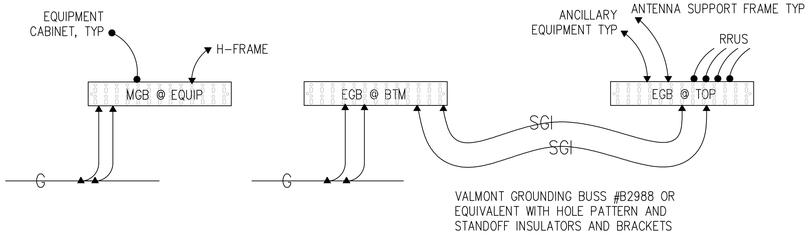
1 GROUND BUSS DETAIL

NOT TO SCALE



2 POST GROUNDING DETAIL

3"=1'-0"



GROUNDING LEGEND

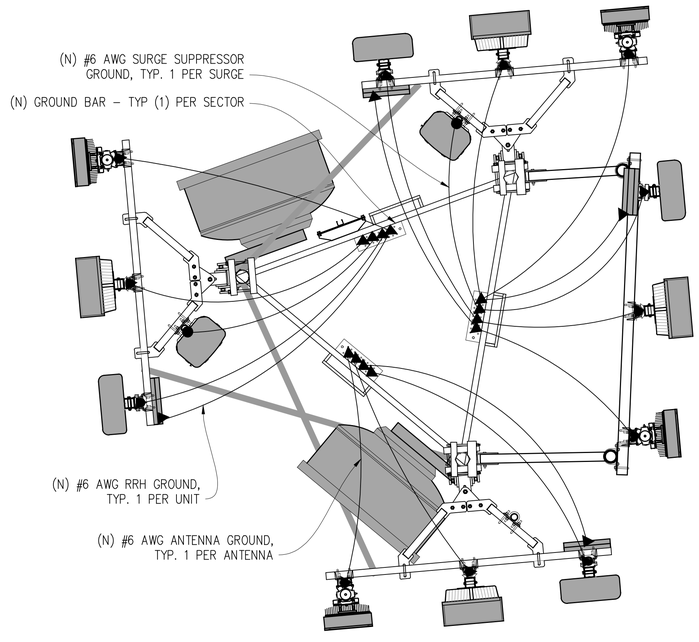
●	MECHANICAL CONNECTION
▼	EXOTHERMIC CADWELD
—●—	TYP. CADWELD INSPECTION WELL
—▮—	TYP ⅝" DIA. X 10'-0" LONG COPPER CLAD GROUND ROD @ 10' O.C. MAX & 18" MIN BELOW FINISH GRADE
◡	GATE GROUNDING STRAP
—G—	TYP #2 TINNED BCW UNDERGROUND GND RING @ 18" MIN BELOW FINISH GRADE
—SGI—	GROUND WIRE #2 STRANDED GREEN INSULATED WIRE

GROUNDING NOTES

1. GROUNDING SHALL COMPLY WITH CEC ARTICLE 250.
2. USE #2 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
3. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
4. EXPOSED GROUNDING CONNECTIONS SHALL BE MADE WITH BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR EXOTHERMIC WELDS AS SPECIFIED IN THE PLANS.
5. CONNECTIONS TO EQUIPMENT SHALL BE MADE USING STAINLESS STEEL HARDWARE.
6. APPLY BUTYL & ELECTRICAL TAPE OVER COLD SHRINK AT ALL LOCATIONS FOR WEATHER PROOFING OVER COAX GROUND KITS.
7. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS WITH STAR WASHERS AND NO-OX OR EQUIVALENT PLACED BETWEEN CONNECTOR AND GROUND BAR.
8. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLES. ALWAYS MAKE A 12" RADIUS BEND, HOWEVER, #6 WIRE CAN BE BENT AT A 6" RADIUS WHEN NECESSARY.
9. THE SYSTEM GROUND RESISTANCE MUST BE 10 OHMS OR LESS. TO ACHIEVE THIS LEVEL OF RESISTANCE THE CONTRACTOR SHALL PURSUE ONE OF THE FOLLOWING FOUR OPTIONS:

   A. CONNECT TO EXISTING GROUNDING SYSTEMS
   B. CONNECT TO BUILDING STEEL COLUMNS
   C. INSTALL A NEW GROUNDING SYSTEM

   UPON COMPLETION OF THE GROUNDING INSTALLATION THE CONTRACTOR SHALL EMPLOY AN OWNER APPROVED 3RD PARTY TO CONDUCT A "FALL OF POTENTIAL" TEST AND SUBMIT A REPORT OF SUCH TEST FOR APPROVAL TO EITHER THE OWNER OR CONSTRUCTION MANAGER.



ANTENNA GROUNDING PLAN

½"=1'-0"

0 6" 1' 2' 3' 5' 7' 10'

Issued For:

REDWING TRAIL

35601 SHERWOOD ROAD
WILLITS, CA 95490

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

COMPLETE
Wireless Consulting, Inc.

MDG LOCATION ID:	5000968098
PROJECT ID:	17393310
DRAWN BY:	FS
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
3	10/15/25	CD 100%	J.Z.
2	09/23/25	CLIENT REV	S.D.
1	09/05/25	CD 95%	S.D.
0	06/13/25	CD 90%	S.D.

Licensee:

REGISTERED PROFESSIONAL ENGINEER
RICHARD A. MALONE
9.25.25
No.15161
STATE OF CALIFORNIA

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

ENGINEER:

Streamline Engineering and Design, Inc.
3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

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SHEET TITLE:

GROUNDING
PLAN & DETAILS

SHEET NUMBER:

E-1.3

verizon

Redwing Trail
35601 Sherwood Road, Willits, CA
Photosims Produced on 8-24-2025



AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

Shot Point Map

Existing



Proposed



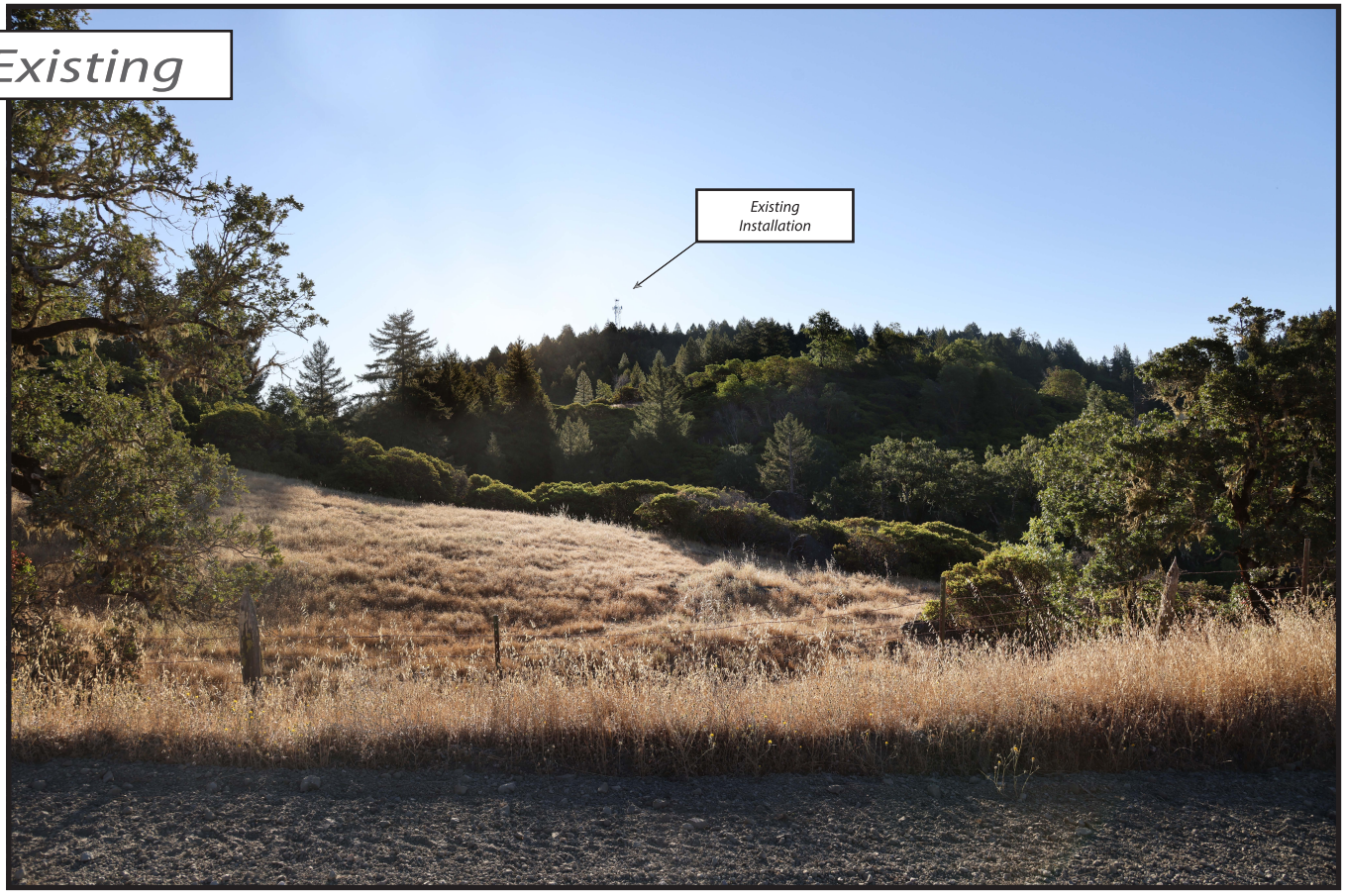
view from Sherwood Road looking northeast at site

verizon

Redwing Trail
35601 Sherwood Road, Willits, CA
Photosims Produced on 8-24-2025

AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

Existing



Proposed



view from Sherwood Road looking east at site

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Photo Simulation Solutions
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Existing



Proposed



view from Sherwood Road looking southeast at site

verizon

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Photosims Produced on 8-24-2025

AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

REDWING TRAIL COVERAGE MAP

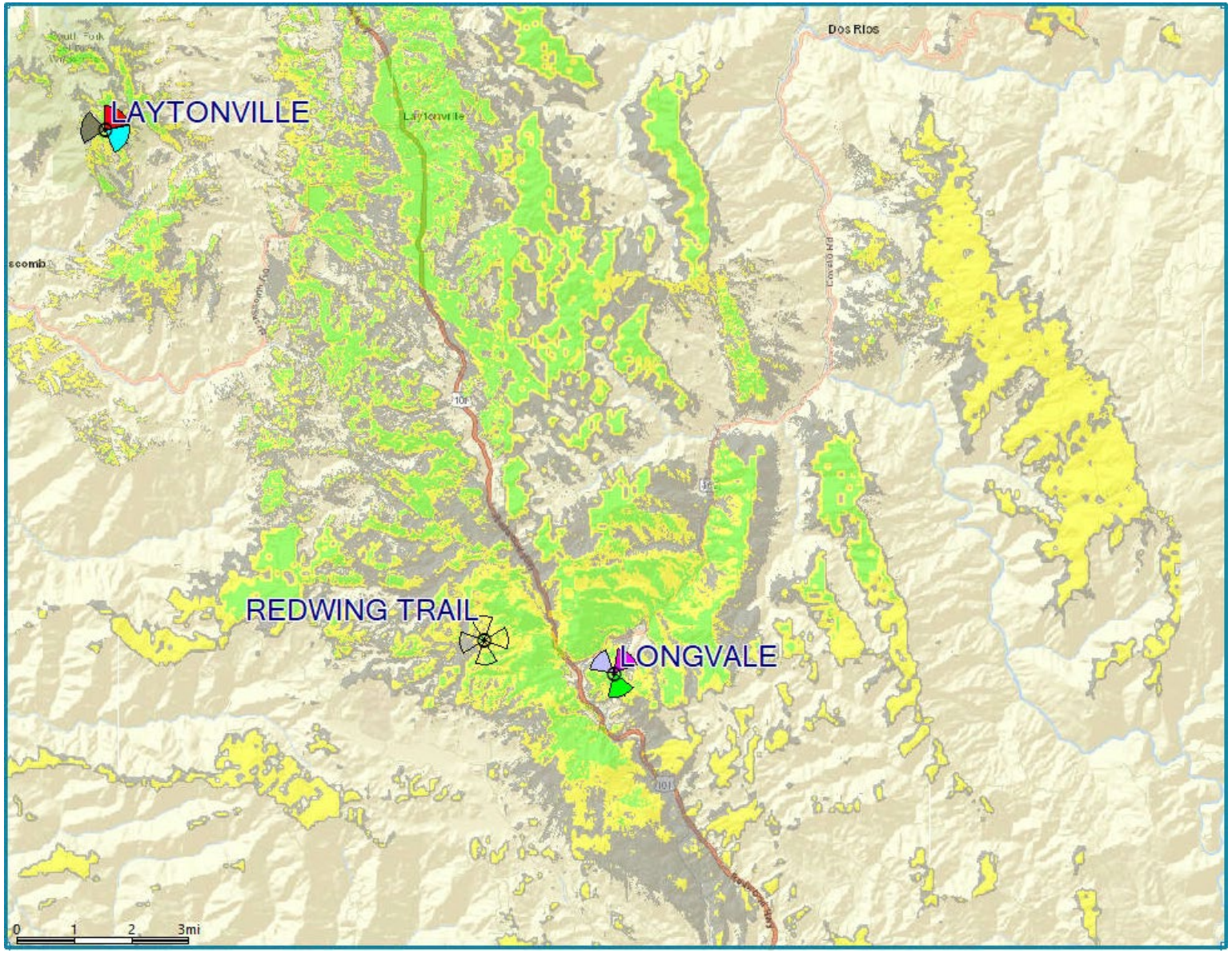
Coverage Objective: Proposed REDWING TRAIL in CA

Verizon Wireless proposes a new facility to address a significant service gap in Longvale and surrounding areas along HWY 101. Currently, the existing Verizon Wireless facilities in Longvale (2.3 miles southeast) and Laytonville (11 miles northwest) provide insufficient service to the area.

The Town of Longvale, an unincorporated area in Mendocino County, including the area north along HWY 101 rely heavily on these facilities, which have large coverage footprints due to their high elevation. However, high demand from a large number of network users has resulted in decreased service quality over a wide area. The proposed facility will provide reliable, enhanced service - including 5G C-Band - to improve user experience for residents and travelers along HWY 101. Additionally, the new facility will alleviate demand on the Laytonville facility, enabling it to better serve users near Shamrock Ranch and Sloan Road in Laytonville, CA. Ultimately, the improved service will benefit residents, workers, visitors, and emergency personnel.

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EXISTING 4G LTE 700 COVERAGE MAP: REDWING TRAIL CLUSTER



Proposed Site (Inactive)

Existing On-Air

>= Indoor (-85 dBm)

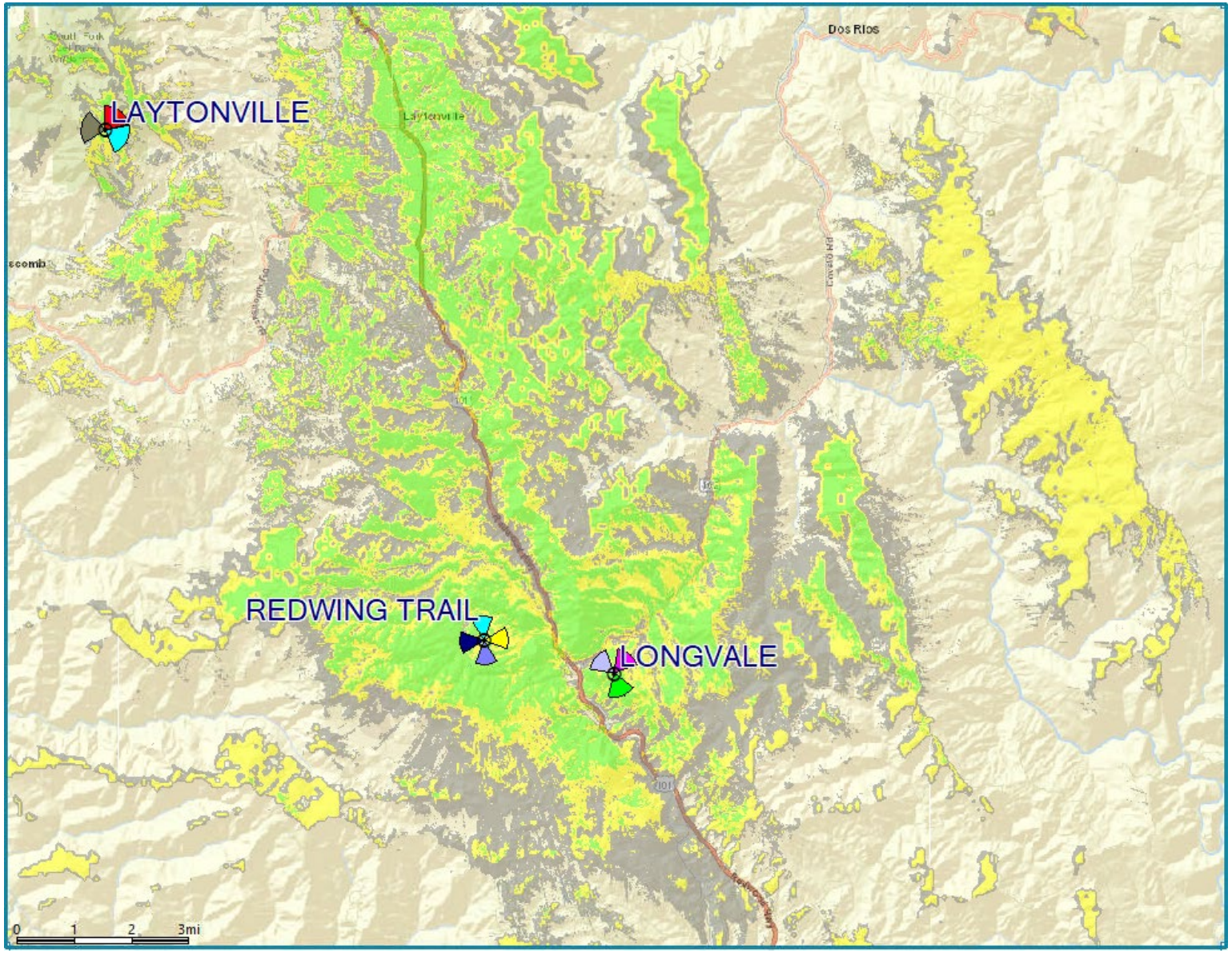
>= In-Vehicle (-95 dBm)

>= Outdoor (-105 dBm)

verizon

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PROPOSED 4G LTE 700 COVERAGE MAP: REDWING TRAIL CLUSTER



Proposed Site (Active)

Existing On-Air

>= Indoor (-85 dBm)

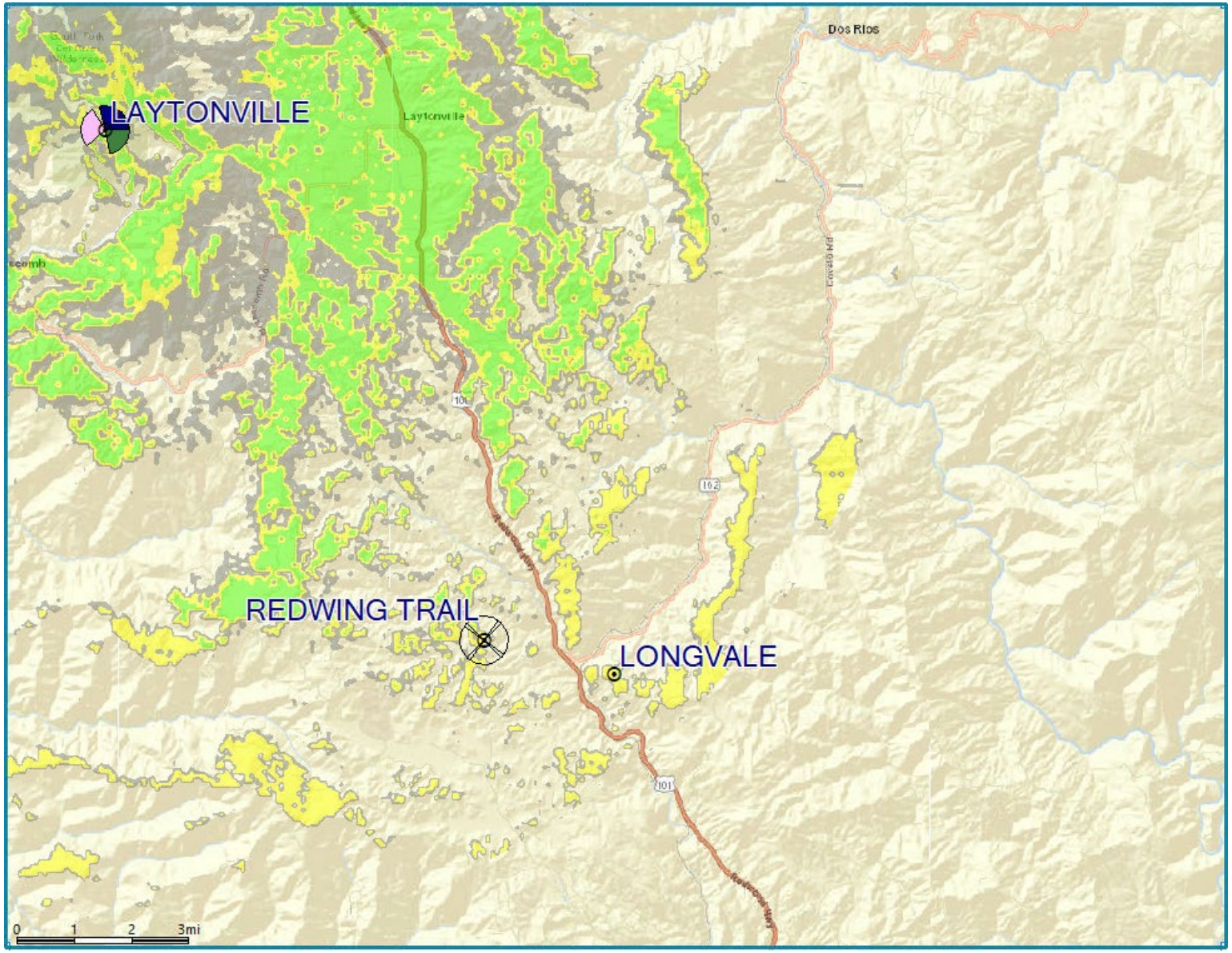
>= In-Vehicle (-95 dBm)

>= Outdoor (-105 dBm)

verizon

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EXISTING 5G LTE C-BAND COVERAGE MAP: REDWING TRAIL CLUSTER



No C-Band

Proposed Site (Inactive)

Existing On-Air

>= Indoor (-85 dBm)

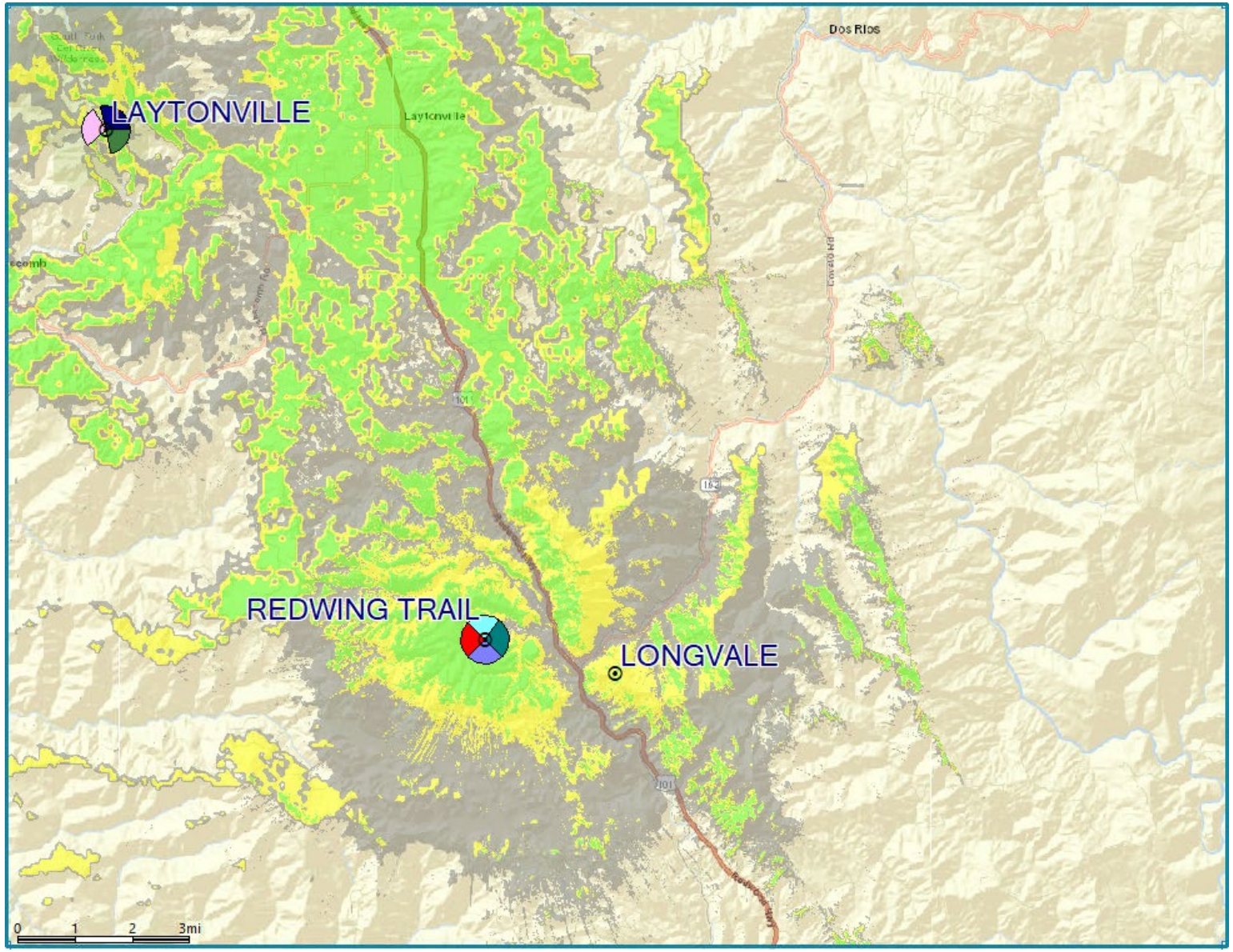
>= In-Vehicle (-95 dBm)

>= Outdoor (-105 dBm)

verizon

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PROPOSED 5G LTE C-BAND COVERAGE MAP: REDWING TRAIL CLUSTER



No C-Band

Proposed Site (Active)

Existing On-Air

>= Indoor (-85 dBm)

>= In-Vehicle (-95 dBm)

>= Outdoor (-105 dBm)

verizon

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Environmental Noise Assessment

Redwing Trail Verizon Cellular Facility

Willits (Mendocino County), California

BAC Job #2025-101

Prepared For:

Complete Wireless Consulting, Inc.

Attn: Alliyah Muhammad
Project Coordinator
2009 V Street
Sacramento, CA 95818

Prepared By:

Bollard Acoustical Consultants, Inc.

Dario Gotchet
Principal Consultant
Board Elected Member, INCE-USA (ID#20964)

August 19, 2025

BOLLARD
Acoustical Consultants

Introduction

The Redwing Trail Verizon Wireless Unmanned Telecommunications Facility Project (project) proposes the installation of cellular equipment within a lease area located at 35601 Sherwood Road in Willits (Mendocino County), California (APN: 036-110-01). The proposed outdoor equipment cabinet cooling systems and an emergency standby diesel generator have been identified as the primary noise sources associated with the project. The project site location with aerial imagery is shown in Figure 1. The studied site drawings are dated June 13, 2025.

Bollard Acoustical Consultants, Inc. has been contracted by Complete Wireless Consulting, Inc. to complete an environmental noise assessment regarding the proposed project cellular equipment operations. Specifically, the following assessment addresses daily noise production and exposure associated with operation of the project outdoor equipment cabinets and emergency generator.

Please refer to Appendix A for definitions of acoustical terminology used in this report. Appendix B illustrates common noise levels associated with various sources.

Criteria for Acceptable Noise Exposure

Mendocino County General Plan

Chapter 3 (Development Element) of the Mendocino County General Plan establishes noise level standards for various land uses affected by non-transportation (stationary) noise sources, such as those proposed by the project. The noise level standards contained in the Development Element are presented below in Table 1.

Table 1
Exterior Noise Level Standards

Land Use Type	Time Period	Median Noise Level, L_{50} (dBA)[1]
Single-Family Homes and Duplexes	Daytime: 7 a.m. to 10 p.m.	60
	Nighttime: 10 p.m. to 7 a.m.	50
Multiple Residential 3 or More Units Per Building (Triplex +)	Daytime: 7 a.m. to 10 p.m.	60
	Nighttime: 10 p.m. to 7 a.m.	55

[1] Level not to be exceeded more than 30 minutes in any hour (i.e., median noise level descriptor, L50).

Source: Mendocino County General Plan, Development Element, Table 3-J (Revised 2020)

Project Noise Generation

As discussed previously, there are two project noise sources which are considered in this evaluation: the equipment cabinet cooling systems and the emergency generator. The evaluation of potential noise impacts associated with the operation of each noise source is evaluated separately as follows:



Legend

- Proposed Verizon Cellular Equipment Lease Area (Approximate)
- Existing Noise-Sensitive Receptor (Residence)

N

Scale (feet)

0 250 500

Redwing Trail Verizon Cellular Facility

Mendocino County, California

Proposed Cellular Facility Lease Area
& Nearest Off-Site Noise-Sensitive Receptor

Figure 1

BOLLARD
Acoustical Consultants

Equipment Cabinet Noise Sources and Reference Noise Levels

The project proposes the installation of two (2) equipment cabinets within the equipment lease area shown in Figure 1. Based on a review of the project site plans, the cabinets assumed for the project are as follows: one (1) Commscope CMC-85-36 power/battery cabinet and one (1) miscellaneous cabinet cooled by a McLean Model T-20 air conditioner. The cabinet reference noise levels are provided in Table 2. The manufacturer's noise level data specification sheets for the proposed equipment cabinets are provided as Appendix C.

Table 2
Reference Noise Level Data of Proposed Equipment Cabinets

Equipment	Number of Cabinets	Reference Noise Level (dB)	Reference Distance (ft)
Commscope CMC-85-36	1	60	5
McLean T-20	1	66	5
Note: Manufacturer specification sheets provided as Appendix C			

Generator Noise Source and Reference Noise Level

The project also proposes the installation of an emergency standby diesel generator within the lease area to maintain cellular service during emergency power outages. According to the project site plans, the generator proposed for installation at this site is a Kohler Model 30REOZK. According to the manufacturer sound level data sheets, provided as Appendix D, the reference sound pressure levels for proposed generator are 79 dB at 23 feet when equipped with a weather enclosure, and 65 dB at 23 feet when equipped with a sound enclosure. For this analysis, it is assumed that the project generator will be equipped with the manufacturer's sound enclosure, resulting in a reference sound pressure level of 65 dB at 23 feet.

The generator which is proposed at this site would only operate during emergencies (power outages) and brief daytime periods for periodic maintenance/lubrication. According to the project applicant, testing of the generator would occur twice per month, during daytime hours only, for a duration of approximately 15 minutes. The emergency generator would not operate at night, except during power outages. It is expected that nighttime operation of the project generator (i.e., during an emergency) would be exempt from the County's exterior noise exposure criteria due to the need for continuous cellular service provided by the project equipment.

Predicted Equipment Noise Exposure at Nearest Noise-Sensitive Receptor

The nearest existing noise-sensitive receptor (off project parcel) has been identified as a single-family residence located on APN: 036-110-03, as shown in Figure 1. Assuming standard spherical spreading loss (-6 dB per doubling of distance from a stationary noise source), project-equipment noise exposure at the nearest noise-sensitive receptor (residence) was calculated and the results of those calculations are presented in Table 3. Satisfaction with the County's noise level criteria at the closest noise-sensitive uses would ensure compliance and noise-sensitive uses located farther away.

Table 3
Predicted Equipment Noise Levels at Nearest Noise-Sensitive Receptor

Receptor[1]	Distance from Lease Area (ft)[2]	Predicted Equipment Noise Level, L_{50} (dB)	
		Cabinets	Generator
036-110-03 – Residence	1,600	<20	28

[1] Receptor location is shown in Figure 1.
[2] Distance scaled from equipment lease area to residence outdoor area (backyard) using the provided site plans and the Mendocino County GIS Viewer.

Source: BAC 2025

Because the proposed outdoor equipment cabinets could potentially be in operation continuously during nighttime hours, operation of the equipment cabinets would be subject to the Mendocino County General Plan exterior *nighttime* noise level standard of 50 dB L_{50} (Table 1). As indicated in Table 3, the predicted outdoor equipment cabinet noise level of less than 20 dB L_{50} at the closest existing noise-sensitive receptor (residence) would satisfy the applicable General Plan 50 dB L_{50} exterior nighttime noise level limit by a wide margin. As a result, no further consideration of noise mitigation measures would be warranted for this aspect of the project.

Because the project generator would only operate during daytime hours for brief periods required for testing and maintenance (i.e., approximately 15 minutes), and because generator noise is assumed to be exempt during emergency operations, noise from the generator would be subject to the Mendocino County General Plan exterior *daytime* noise level standard of 60 dB L_{50}. As shown in Table 3, the predicted generator noise level of 28 dB L_{50} at the closest existing noise-sensitive receptor (residence) would satisfy the applicable General Plan 60 dB L_{50} exterior daytime noise level standard by a wide margin. As a result, no further consideration of noise mitigation measures would be warranted for this aspect of the project.

Conclusion

Based on the equipment noise level data and analyses presented above, project-related equipment noise exposure is expected to satisfy the applicable Mendocino County General Plan noise level criteria at the closest existing noise-sensitive land uses. As a result, no further consideration of project equipment noise mitigation measures would be warranted for this project.

This concludes our environmental noise assessment for the proposed Redwing Trail Verizon Cellular Facility in Mendocino County, California. Please contact BAC at (530) 537-2328 or dariog@bacnoise.com with any questions or requests for additional information.

Appendix A
Acoustical Terminology

Acoustics The science of sound.

Ambient Noise The distinctive acoustical characteristics of a given space consisting of all noise sources audible at that location. In many cases, the term ambient is used to describe an existing or pre-project condition such as the setting in an environmental noise study.

Attenuation The reduction of an acoustic signal.

A-Weighting A frequency-response adjustment of a sound level meter that conditions the output signal to approximate human response.

Decibel or dB Fundamental unit of sound. A Bell is defined as the logarithm of the ratio of the sound pressure squared over the reference pressure squared. A Decibel is one-tenth of a Bell.

CNEL Community Noise Equivalent Level. Defined as the 24-hour average noise level with noise occurring during evening hours (7 - 10 p.m.) weighted by a factor of three and nighttime hours weighted by a factor of 10 prior to averaging.

Frequency The measure of the rapidity of alterations of a periodic signal, expressed in cycles per second or hertz.

IIC Impact Insulation Class (IIC): A single-number representation of a floor/ceiling partition's impact generated noise insulation performance. The field-measured version of this number is the FIIC.

L_{dn} Day/Night Average Sound Level. Similar to CNEL but with no evening weighting.

L_{eq} Equivalent or energy-averaged sound level.

L_{max} The highest root-mean-square (RMS) sound level measured over a given period of time.

Loudness A subjective term for the sensation of the magnitude of sound.

Masking The amount (or the process) by which the threshold of audibility is for one sound is raised by the presence of another (masking) sound.

Noise Unwanted sound.

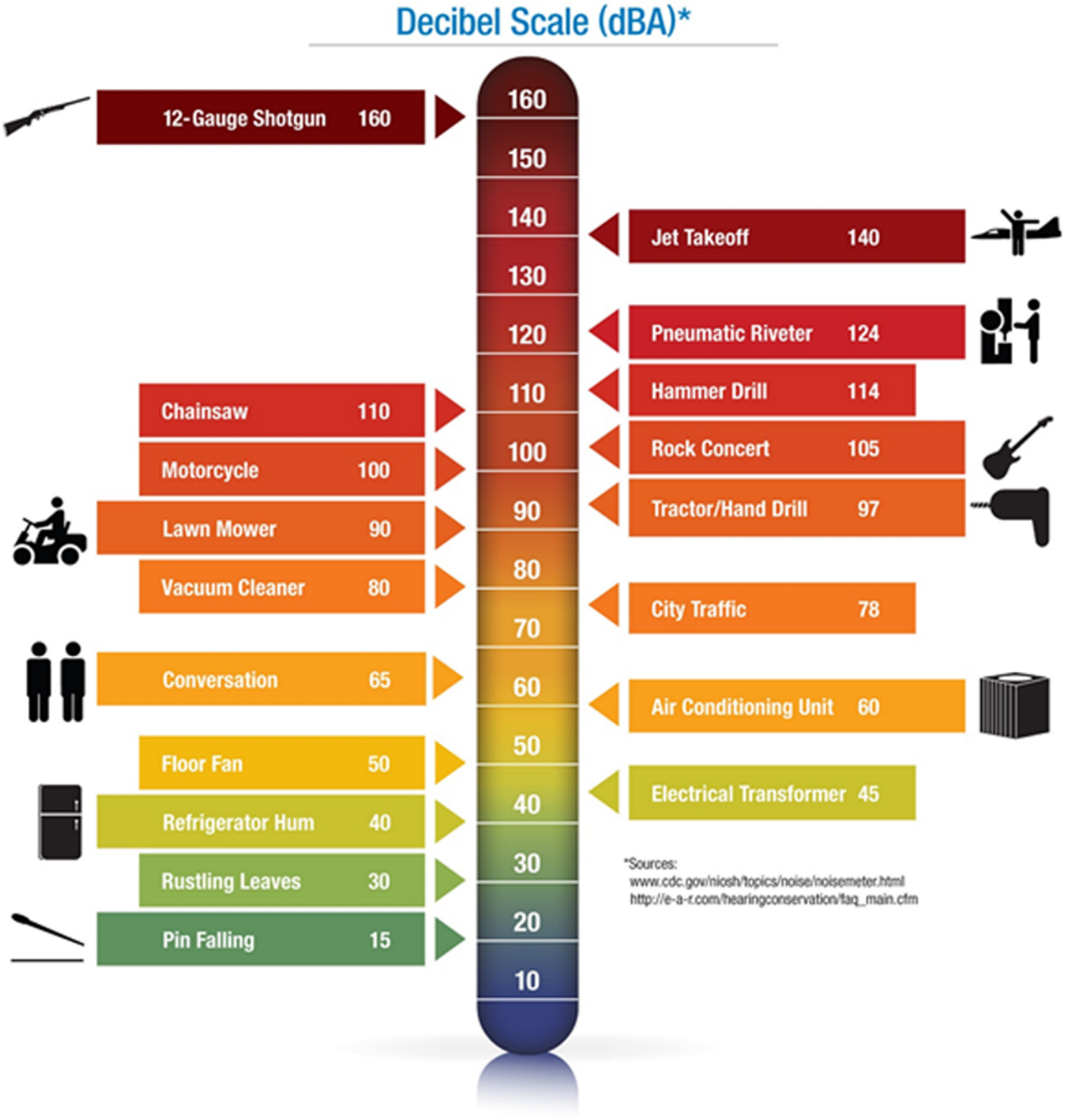
Peak Noise The level corresponding to the highest (not RMS) sound pressure measured over a given period of time. This term is often confused with the "Maximum" level, which is the highest RMS level.

RT_{60} The time it takes reverberant sound to decay by 60 dB once the source has been removed.

STC Sound Transmission Class (STC): A single-number representation of a partition's noise insulation performance. This number is based on laboratory-measured, 16-band (1/3-octave) transmission loss (TL) data of the subject partition. The field-measured version of this number is the FSTC.

Appendix B

Typical A-Weighted Sound Levels of Common Noise Sources



760250956 | CMC-85-36C



CMC-85, Equipment and Battery Cabinet NiCd, 3-String, 4 kW Air Conditioner, DC

The cabinet is designed to combine wireless telecom power equipment and NiCad batteries into one cabinet. Equipment ranges from DC power system, Fiber slack tray, cell site router and other servers equipped by customer. This cabinet provide mechanical and environmental protection for the equipment inside. Cooling of active equipment is achieved by DC rated 4100W Air Conditioner.

- Excellent Thermal Performance to be compatible with both Heat Exchanger andAir Conditioner.
- Provide enough space for the Power system and other network servers.
- Provide option for security/access control via Puck Lock system.
- Provide the flexible access for the cable entrance.
- Provide the flexible heater Solution for the cold ambient application.
- Provide the flexible configurations to give best in class maximum equipmentrack mounting space (Up to 35 total RU)
- Platform products to share many parts including plinth, solar shield, and hybridcable storage units.
- Excellent cable management system.

Product Classification

Regional Availability	Latin America | North America
Portfolio	CommScope®
Product Type	Macro cell site enclosure
Product Series	CMC

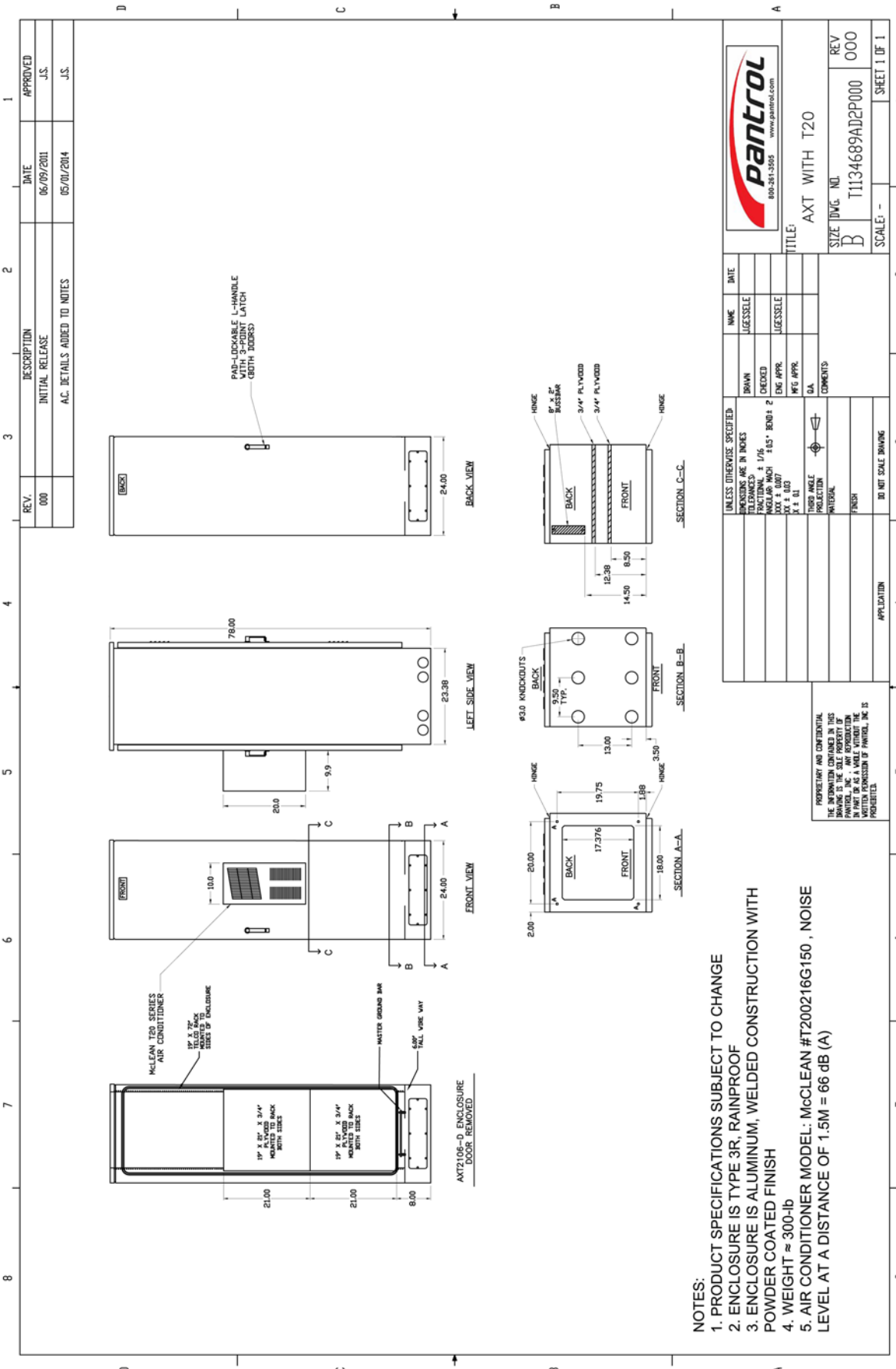
General Specifications

Access	Bottom: Power compartment | Rear Wall: Hybrid Cables | Side Wall: Power or other cables compartment
Alarm Type	Door open (both front and side doors) | HVAC alarms (including high temperature, failure) | Overheat | S2 module, 20P or standard and user defined alarms | Thermal probe
Batteries Supported	3 strings of Nicad batteries from Multiple OEM
Battery Storage	2 battery shelves for holding up to 3 Nicad battery strings
Cabinet Type	Baseband cabinet | Battery back-up cabinet | Transmission cabinet
Capacity	500W Heater built in Air Conditioner
Color	Light Gray (RAL 7035) | Others available at additional cost
Cooling	DC Rated 4100W Air Conditioner Or 420W/k Thermosiphon unit for equipment compartment
Door Security	Quarter turn lock, puck lock system for rear door | Swing handle, puck lock system for front door
Mounting	Mounts directly to steel dunnage with supplied ½" hardware | Mounts to concrete pad with customer supplied anchors | Optional 6" plinth
Noise Emission, maximum	60 dBA

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COMMSCOPE®

Appendix C-2


REV.
DESCRIPTION
DATE
APPROVED
000
INITIAL RELEASE
06/09/2011
J.S.
A.C. DETAILS ADDED TO NOTES
05/01/2014
J.S.
PAD-LOCKABLE L-HANDLE WITH 3-POINT LATCH (BOTH DOORS)
BACK
BACK VIEW
LEFT SIDE VIEW
FRONT
FRONT VIEW
McLEAN T20 SERIES AIR CONDITIONER
19" X 72" TELCO BACK MOUNTED TO SIDES OF ENCLOSURE
MASTER GROUND BAR
6.69" TALL VENT WAY
19" X 21" X 3/4" PLYWOOD MOUNTED TO BACK BOTH SIDES
AXT2106-D ENCLOSURE DOOR REMOVED
SECTION C-C
SECTION B-B
SECTION A-A
HINGE
8" X 2" BUSSBAR
3/4" PLYWOOD
Ø3.0 KNOCKOUTS
9.50 TYP.
17.376
UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ± 1/16
ANGULAR: MACH ± 0.5° BEND ± 2°
XXX ± 0.007
XX ± 0.03
X ± 0.1
THIRD ANGLE PROJECTION
MATERIAL
FINISH
APPLICATION
DRAWN
CHECKED
ENG. APPR.
MFG APPR.
Q.A.
COMMENTS:
NAME
DATE
LGESSELE
LGESSELE
DO NOT SCALE DRAWING
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800-361-3505
www.pantrol.com
TITLE:
AXT WITH T20
SIZE
B
DWG. NO.
T1134689AD2P000
REV
000
SCALE: -
SHEET 1 OF 1
NOTES:
1. PRODUCT SPECIFICATIONS SUBJECT TO CHANGE
2. ENCLOSURE IS TYPE 3R, RAINPROOF
3. ENCLOSURE IS ALUMINUM, WELDED CONSTRUCTION WITH POWDER COATED FINISH
4. WEIGHT ≈ 300-lb
5. AIR CONDITIONER MODEL: McCLEAN #T200216G150 , NOISE LEVEL AT A DISTANCE OF 1.5M = 66 dB (A)

Appendix D-1
Generator Sound Level Data

Weather Enclosure and Subbase Fuel Tank Specifications

Fuel Tank Capacity, L (gal.)	Est. Fuel Supply Hours at 60 Hz with Full Load, Nominal/Actual	Enclosure and Subbase Fuel Tank					Fuel Tank Height, mm (in.)	Sound Pressure Level at 60 Hz with Full Load, dB(A) §
		Max. Dimensions, mm (in.)			Max. Weight, kg (lb.) *			
		Length	Width ‡	Height	With Steel Enclosure	With Aluminum Enclosure		
15REOZK								
No Tank	0	1969 (77.5)	882 (34.7)	1327 (52.3)	585 (1290)	not available	0 (0)	77
301 (80)	48/53			1649 (64.9)	793 (1749)		432 (17)	
465 (123)	72/82			1852 (72.9)	851 (1876)		635 (25)	
15REOZK with IBC Seismic Certification and State Code Fuel Tank †								
330 (87)	48/58	2575 (101.4)	882 (34.7)	1573 (61.9)	932 (2055)	not available	356 (14)	77
476 (126)	72/84			1700 (66.9)	996 (2196)		483 (19)	
638 (168)	96/112			1827 (71.9)	1064 (2345)		610 (24)	
20REOZK								
No Tank	0	1969 (77.5)	882 (34.7)	1327 (52.3)	621 (1370)	not available	0 (0)	79
301 (80)	24/38			1649 (64.9)	829 (1829)		432 (17)	
465 (123)	48/58			1852 (72.9)	887 (1956)		635 (25)	
622 (164)	72/78			2030 (79.9)	936 (2065)		813 (32)	
20REOZK with IBC Seismic Certification and State Code Fuel Tank †								
330 (87)	24/41	2575 (101.4)	882 (34.7)	1573 (61.9)	968 (2135)	not available	356 (14)	79
476 (126)	48/60			1700 (66.9)	1032 (2276)		483 (19)	
638 (168)	72/80			1827 (71.9)	1100 (2425)		610 (24)	
838 (221)	96/105			1979 (77.9)	1181 (2605)		762 (30)	
30REOZK								
No Tank	0	1969 (77.5)	882 (34.7)	1327 (52.3)	680 (1500)	not available	0 (0)	79
301 (80)	24/30			1759 (69.3)	888 (1959)		432 (17)	
622 (164)	48/63			2140 (84.3)	995 (2195)		813 (32)	
791 (209)	72/80	2070 (81.5)		2241 (88.3)	1042 (2298)		914 (36)	
30REOZK with IBC Seismic Certification and State Code Fuel Tank †								
330 (87)	24/33	2575 (101.4)	882 (34.7)	1573 (61.9)	1027 (2265)	not available	356 (14)	79
638 (168)	48/64			1827 (71.9)	1159 (2555)		610 (24)	
838 (221)	72/85			1979 (77.9)	1240 (2735)		762 (30)	
1056 (279)	96/107			2241 (88.3)	1323 (2919)		914 (36)	
40REOZK								
No Tank	0	2320 (91.3)	1070 (42.1)	1465 (57.7)	1048 (2310)	not available	0 (0)	79
505 (133)	24/36			1838 (72.4)	1328 (2928)		483 (19)	
868 (229)	48/62			2142 (84.4)	1427 (3146)		787 (31)	
1043 (275)	72/74			2244 (88.4)	1464 (3228)		889 (35)	
40REOZK with IBC Seismic Certification and State Code Fuel Tank †								
541 (142)	24/38	2896 (114.0)	1070 (42.1)	1787 (70.4)	1514 (3337)	not available	432 (17)	79
898 (237)	48/64			2015 (79.4)	1647 (3631)		660 (26)	
1057 (279)	72/75			2117 (83.4)	1706 (3762)		762 (30)	
1520 (401)	96/108			2269 (89.4)	1825 (4024)		914 (36)	
50REOZK								
No Tank	0	2320 (91.3)	1070 (42.1)	1465 (57.7)	1063 (2344)	not available	0 (0)	79
505 (133)	24/29			1838 (72.4)	1343 (2962)		483 (19)	
868 (229)	48/50			2142 (84.4)	1442 (3180)		787 (31)	
1527 (403)	72/88	2896 (114.0)		2269 (89.4)	1585 (3496)		914 (36)	
50REOZK with IBC Seismic Certification and State Code Fuel Tank †								
541 (142)	24/31	2896 (114.0)	1070 (42.1)	1787 (70.4)	1529 (3371)	not available	432 (17)	79
898 (237)	48/52			2015 (79.4)	1662 (3665)		660 (26)	
1520 (401)	72/87			2269 (89.4)	1840 (4058)		914 (36)	
2028 (535)	96/116	4020 (158.3)			2041 (4500)			

Appendix D-2
Generator Sound Level Data

Weather Enclosure and Subbase Fuel Tank Specifications (continued)

Fuel Tank Capacity, L (gal)	Est. Fuel Supply Hours at 60 Hz with Full Load, Nominal/Actual	Enclosure and Subbase Fuel Tank					Fuel Tank Height, mm (in.)	Sound Pressure Level at 60 Hz with Full Load, dB(A) §
		Max. Dimensions, mm (in.)			Max. Weight, kg (lb.) *			
		Length	Width ‡	Height	With Steel Enclosure	With Aluminum Enclosure		
60REOZK								
No Tank	0	2320 (91.3)	1070 (42.1)	1465 (57.7)	1102 (2430)	not available	0 (0)	80
505 (133)	24/25			1838 (72.4)	1382 (3048)		483 (19)	
1043 (275)	48/51			2244 (88.4)	1518 (3348)		889 (35)	
1527 (403)	72/75	2896 (114.0)		2269 (89.4)	1624 (3582)		914 (36)	
60REOZK with IBC Seismic Certification and State Code Fuel Tank †								
541 (142)	24/26	2896 (114.0)	1070 (42.1)	1787 (70.4)	1568 (3457)	not available	432 (17)	80
1057 (279)	48/52			2117 (83.4)	1733 (3882)		762 (30)	
1520 (401)	72/74			2269 (89.4)	1852 (4144)		914 (36)	
2028 (535)	96/99	4020 (158.3)			2053 (4586)			

Note: Data in table is for reference only, refer to the respective ADV drawings for details.

* Max. weight includes the generator set (wet) using the largest alternator option, enclosure with acoustic insulation added, silencer, and tank (no fuel).

† State code fuel tank specifications (height and weight) do not include I-beam option.

‡ Width dimension shown includes rubber door stops.

§ Log average sound pressure level of 8 measured positions around the perimeter of the unit at a distance of 7 m (23 ft). Refer to TIB-114 for details.

Sound Enclosure and Subbase Fuel Tank Specifications

Fuel Tank Capacity, L (gal)	Est. Fuel Supply Hours at 60 Hz with Full Load, Nominal/Actual	Enclosure and Subbase Fuel Tank					Fuel Tank Height, mm (in.)	Sound Pressure Level at 60 Hz with Full Load, dB(A) §
		Max. Dimensions, mm (in.)			Max. Weight, kg (lb.) *			
		Length	Width ‡	Height	With Steel Enclosure	With Aluminum Enclosure		
15REOZK								
No Tank	0	1969 (77.5)	882 (34.7)	1327 (52.3)	594 (1310)	530 (1168)	0 (0)	64
301 (80)	48/53			1649 (64.9)	802 (1769)	738 (1627)	432 (17)	
465 (123)	72/82			1852 (72.9)	860 (1896)	796 (1754)	635 (25)	
15REOZK with IBC Seismic Certification and State Code Fuel Tank †								
330 (87)	48/58	2575 (101.4)	882 (34.7)	1573 (61.9)	941 (2075)	877 (1933)	356 (14)	64
476 (126)	72/84			1700 (66.9)	1005 (2216)	941 (2074)	483 (19)	
638 (168)	96/112			1827 (71.9)	1073 (2365)	1009 (2223)	610 (24)	
20REOZK								
No Tank	0	1969 (77.5)	882 (34.7)	1327 (52.3)	630 (1390)	566 (1248)	0 (0)	65
301 (80)	24/38			1649 (64.9)	838 (1849)	774 (1707)	432 (17)	
465 (123)	48/58			1852 (72.9)	896 (1976)	832 (1834)	635 (25)	
622 (164)	72/78			2030 (79.9)	945 (2085)	881 (1943)	813 (32)	
20REOZK with IBC Seismic Certification and State Code Fuel Tank †								
330 (87)	24/41	2575 (101.4)	882 (34.7)	1573 (61.9)	977 (2155)	913 (2013)	356 (14)	65
476 (126)	48/60			1700 (66.9)	1041 (2296)	977 (2154)	483 (19)	
638 (168)	72/80			1827 (71.9)	1109 (2445)	1045 (2303)	610 (24)	
838 (221)	96/105			1979 (77.9)	1190 (2625)	1126 (2483)	762 (30)	
30REOZK								
No Tank	0	1969 (77.5)	882 (34.7)	1327 (52.3)	689 (1520)	624 (1378)	0 (0)	65
301 (80)	24/30			1759 (69.3)	897 (1979)	832 (1837)	432 (17)	
622 (164)	48/63			2140 (84.3)	1004 (2215)	939 (2073)	813 (32)	
791 (209)	72/80	2070 (81.5)		2241 (88.3)	1051 (2318)	986 (2176)	914 (36)	
30REOZK with IBC Seismic Certification and State Code Fuel Tank †								
330 (87)	24/33	2575 (101.4)	882 (34.7)	1573 (61.9)	1036 (2285)	971 (2143)	356 (14)	65
638 (168)	48/64			1827 (71.9)	1168 (2575)	1103 (2433)	610 (24)	
838 (221)	72/85			1979 (77.9)	1249 (2755)	1184 (2613)	762 (30)	
1056 (279)	96/107			2241 (88.3)	1332 (2939)	1267 (2797)	914 (36)	
40REOZK								
No Tank	0	2320 (91.3)	1070 (42.1)	1465 (57.7)	1059 (2335)	957 (2110)	0 (0)	64
505 (133)	24/36			1838 (72.4)	1339 (2953)	1237 (2728)	483 (19)	
868 (229)	48/62			2142 (84.4)	1438 (3171)	1336 (2946)	787 (31)	
1043 (275)	72/74			2244 (89.4)	1475 (3253)	1373 (3028)	889 (35)	