



COUNTY OF MENDOCINO
DEPARTMENT OF PLANNING AND BUILDING SERVICES

860 NORTH BUSH STREET · UKIAH · CALIFORNIA · 95482
120 WEST FIR STREET · FT. BRAGG · CALIFORNIA · 95437

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

November 23, 2020

Environmental Health - Ukiah/Fort Bragg
Building Inspection - Ukiah
Redwood Valley MAC

Little Lake Fire Protection District
Redwood Valley/Calpella Fire District
Air Quality Management

CALFIRE - Prevention
Redwood Valley Rancheria
Sherwood Valley Band of Pomo Indians

CASE#: AP 2020-0042
DATE FILED: 10/16/2020
OWNER: GOLDEN RULE CHURCH ASSOCIATION
APPLICANT: T-MOBILE WEST LLC
AGENT: SYNERGY/ LYNDA MCCLUNG

REQUEST: Install one (1) 25KW diesel generator with tank on a concrete slab and one (1) automatic transfer switch inside existing chain link fence enclosure.

LOCATION: 5 miles northwest of Redwood Valley town center, 1.2 miles east of Highway 101, 1.4 miles south of its intersection with Black Bart Drive (CR370); Located at 16111 N Highway 101, Willits; APN: 106-150-03.

ENVIRONMENTAL DETERMINATION: Categorically Exempt

SUPERVISORIAL DISTRICT: 5

STAFF PLANNER: CHEVON HOLMES

RESPONSE DUE DATE: December 7, 2020

PROJECT INFORMATION CAN BE FOUND AT:

https://www.mendocinocounty.org/government/planning-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_2020-0042

OWNER: GOLDEN RULE CHURCH ASSOCIATION

APPLICANT: T-Mobile West LLC

AGENT: Lynda McClung (Synergy, a Division of Advantage Engineers)

REQUEST: Install one (1) 25KW diesel generator with tank on a concrete slab and one (1) automatic transfer switch inside existing chain link fence enclosure.

LOCATION: 5 miles northwest of Redwood Valley town center, 1.2 miles east of Highway 101, 1.4 miles south of its intersection with Black Bart Drive (CR370); Located at 16111 N Highway 101, Wilits; APN 106-150-03.

APN/S: 1061503400

PARCEL SIZE: 4,800 square foot leased area of 316± acre parcel

GENERAL PLAN: Rangeland 160 acre minimum (RL160)

ZONING: Rangeland 160 acre minimum (RL:160)

EXISTING USES: Wireless Communicati

SUPERVISORIAL DISTRICT: 5 (Williams)

RELATED CASES:

PARCEL DEVELOPMENT:

Certificate of Compliance #CC 1992-0007 and Boundary Line Adjustment #B 2001-0110 created the parcel's current configuration.

USE PERMIT(S):

Use Permit #U 2001-0006 was issued to Edge Wireless (now AT&T Mobility) for a 140 foot tall tower supporting up to 9 panel antennas and up to 4 microwave dishes. The permit also included a 12 foot by 16 foot by 10 foot equipment shelter.

Use Permit Modification #UM 6-2001/2004 was approved by the Planning Commission on September 2, 2004 allowing Edge Wireless, (now AT&T Mobility) and U.S. Cellular to add 8 microwave dishes, measuring 3 to 6 feet in diameter, to the existing 140 foot tall tower.

Use Permit Modification #UM 6-2001/2009 was approved by the Planning Commission on October 15, 2009 permitting T-Mobile to add 3 panel antennas and one microwave dish to the 140 foot tall tower.

Use Permit Modification #UM 6-2001/2012 was approved by the Planning Commission on July 19, 2012 permitting Verizon Wireless to add 3 microwave dishes to an existing 140 foot tall tower. The permit also includes a 192 square foot equipment shelter, a backup generator, and a 500 gallon propane storage tank.

ADMINISTRATIVE PERMITS:

#AP 2015-0002 Administrative Permit for installation of three (3) eight (8) foot tall panel antennas, three (3) Remote Radio Units (RRU) and three (3) diplexers at the 130 foot level of an existing 140 foot tall tower.

	<u>ADJACENT GENERAL PLAN</u>	<u>ADJACENT ZONING</u>	<u>ADJACENT LOT SIZES</u>	<u>ADJACENT USES</u>
NORTH:	Open Space (OS)	Open Space (OS)	157 & 200± Acres	Open Space
EAST:	Public Space (PS) & Rangeland (RL)	Public Facility (PF) & Rangeland (RL)	6 & 347± Acres	Rangeland
SOUTH:	Rangeland (RL)	Rangeland (RL:160)	249 & 200 & 217± Acres	Rangeland
WEST:	Rangeland (RL)	Rangeland (RL:160)	146± Acres	Rangeland

REFERRAL AGENCIES

LOCAL

- Air Quality Management District
- Building Division (Ukiah)
- Environmental Health (EH)
- Redwood Valley MAC
- Little Lake Fire Protection District

- Redwood Valley/ Calpella Fire District

STATE

- CALFIRE (Land Use)

TRIBAL

- Redwood Valley Rancheria
- Sherwood Valley Band of Pomo Indians

ADDITIONAL INFORMATION: The subject host parcel lies within the perimeter of the burn area from 2017 Complex fires.

STAFF PLANNER: CHEVON HOLMES

DATE: 11/23/2020

ENVIRONMENTAL DATA

1. MAC:

GIS

Redwood Valley Municipal Advisory Council

2. FIRE HAZARD SEVERITY ZONE:

CALFIRE FRAP maps/GIS

Very High & High Fire Severity

3. FIRE RESPONSIBILITY AREA:

CALFIRE FRAP maps/GIS

State Responsibility Area (SRA)

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

MAYMEN-WOODIN-ETSEL

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

N/A

12. EARTHQUAKE FAULT ZONE:

Earthquake Fault Zone Maps; GIS

YES

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

NO

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

NO

3. If the project is commercial, industrial or institutional, complete the following:

Estimated employees per shift: 2-3

Estimated shifts per day: 1

Type of loading facilities proposed: Install generator, concrete pad, and automatic transfer switch

4. Will the proposed project be phased? Yes No If yes, explain your plans for phasing:

5. Will vegetation be removed on areas other than the building sites and roads? Yes No Explain:

6. Will the project involve the use or disposal of potentially hazardous materials such as toxic substances, flammables, or explosives? Yes No If yes, explain:

Installing diesel fueled generator.

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

	Number	Size
Number of covered spaces	<u>N/A</u>	<u> </u>
Number of uncovered spaces	<u>N/A</u>	<u> </u>
Number of standard spaces	<u>N/A</u>	<u> </u>
Number of handicapped spaces	<u>N/A</u>	<u> </u>
Existing Number of Spaces	<u>N/A</u>	
Proposed Additional Spaces	<u>N/A</u>	
Total	<u>N/A</u>	

8. Is any road construction or grading planned? Yes No If yes, grading and drainage plans may be required. Also, describe the terrain to be traversed (e.g., steep, moderate slope, flat, etc.).

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

- A. Amount of cut N/A cubic yards
- B. Amount of fill N/A cubic yards
- C. Maximum height of fill slope N/A feet
- D. Maximum height of cut slope N/A feet
- E. Amount of import or export N/A cubic yards
- F. Location of borrow or disposal site N/A

10. Does the project involve sand removal, mining or gravel extraction? Yes No
 If yes, detailed extraction, reclamation and monitoring plans may be required?

11. Will the proposed development convert land currently or previously used for agriculture to another use?
 Yes No
 If yes, how many acres will be converted? _____ acres. An agricultural economic feasibility study may be required.

12. Will the development provide public or private recreational opportunities? Yes No
 If yes, explain below:

13. Is the proposed development visible from State Highway 1 or other scenic route? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	14. Is the proposed development visible from a park, beach or other recreational area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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15. Does the development involve diking, filling, dredging or placing structures in open coastal water, wetlands, estuaries or lakes?

Diking : Yes No
 Filling: Yes No
 Dredging: Yes No

Placement of structures in:
 open coastal waters
 wetlands
 estuaries
 lakes

If so, amount of material to be dredged or filled? _____ cubic yards.
 Location of dredged material disposal site? _____

Has a U.S. Army Corps of Engineers permit been applied for? Yes No

16. Will there be any exterior lighting? Yes No If yes, describe below and identify the location of all exterior lighting on the plot plan and building plans.

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

A. Electricity:
 Utility Company (service exists to the parcel)
 Utility Company (requires extension of service to site: _____ feet _____ miles)
 On Site Generation - Specify: _____

B. Gas:
 Utility Company/Tank
 On Site Generation - Specify: _____
 None

C. Telephone: Yes No

18. What will be the method of sewage disposal?
 Community sewage system - Specify supplier _____
 Septic Tank
 Other - Specify: N/A _____

19. What will be the domestic water source:
 Community water system - Specify supplier _____
 Well
 Spring
 Other - Specify: N/A _____

20. Are there any associated projects and/or adjacent properties under your ownership?
 Yes No If yes, explain (e.g., 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

22. Describe the location of the site in terms of readily identifiable landmarks (e.g., mailboxes, mile posts, street intersections, etc.):
This location is in a isolated area surrounded by trees.

23. Are there existing structures on the property? Yes No
If yes, describe below, and identify the use of each structure on the plot plan or tentative map if the proposal is for a subdivision.
There is an existing T-Mobile lattice tower and equipment cabinet. The proposed generator will be located next to the
equipment cabinet, enclosed behind the existing chain link fence and wall.

24. Will any existing structures be demolished or removed? Yes No
If yes, describe the type of development to be demolished or removed, including the relocation site, if applicable.

25. Project Height. Maximum height of existing structures _____ feet. Maximum height of proposed structures ~⁸ _____ feet.

26. Gross floor area of existing structures 150 square feet (including covered parking and accessory buildings). Gross floor area of proposed structures 47 square feet (including covered parking and accessory buildings).

27. Lot area (within property lines): 197 square feet acres.

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.
The area is isolated surrounded by trees. There is an existing telecommunications facility.

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.
The area is isolated, there are no residential or commercial properties near it.

30. Indicate the surrounding land uses:

	North	East	South	West
Vacant				
Residential Agricultural				
Commercial Industrial				
Institutional Timberland				
Other	RL	RL	RL	RL

CERTIFICATION AND SITE VIEW AUTHORIZATION- SUBMIT ONLY ONE COPY

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.

Lynda McClung

9/28/2020

Owner/Authorized Agent

Date

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

AUTHORIZATION OF AGENT

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

****See Project Overview and Owner Authorization**

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
Lynda McClung Synergy, a division of Advantage Engineers LLC		
Mailing Address	Mailing Address	Mailing Address
7543 Woodley Avenue Van Nuys, CA 91406		

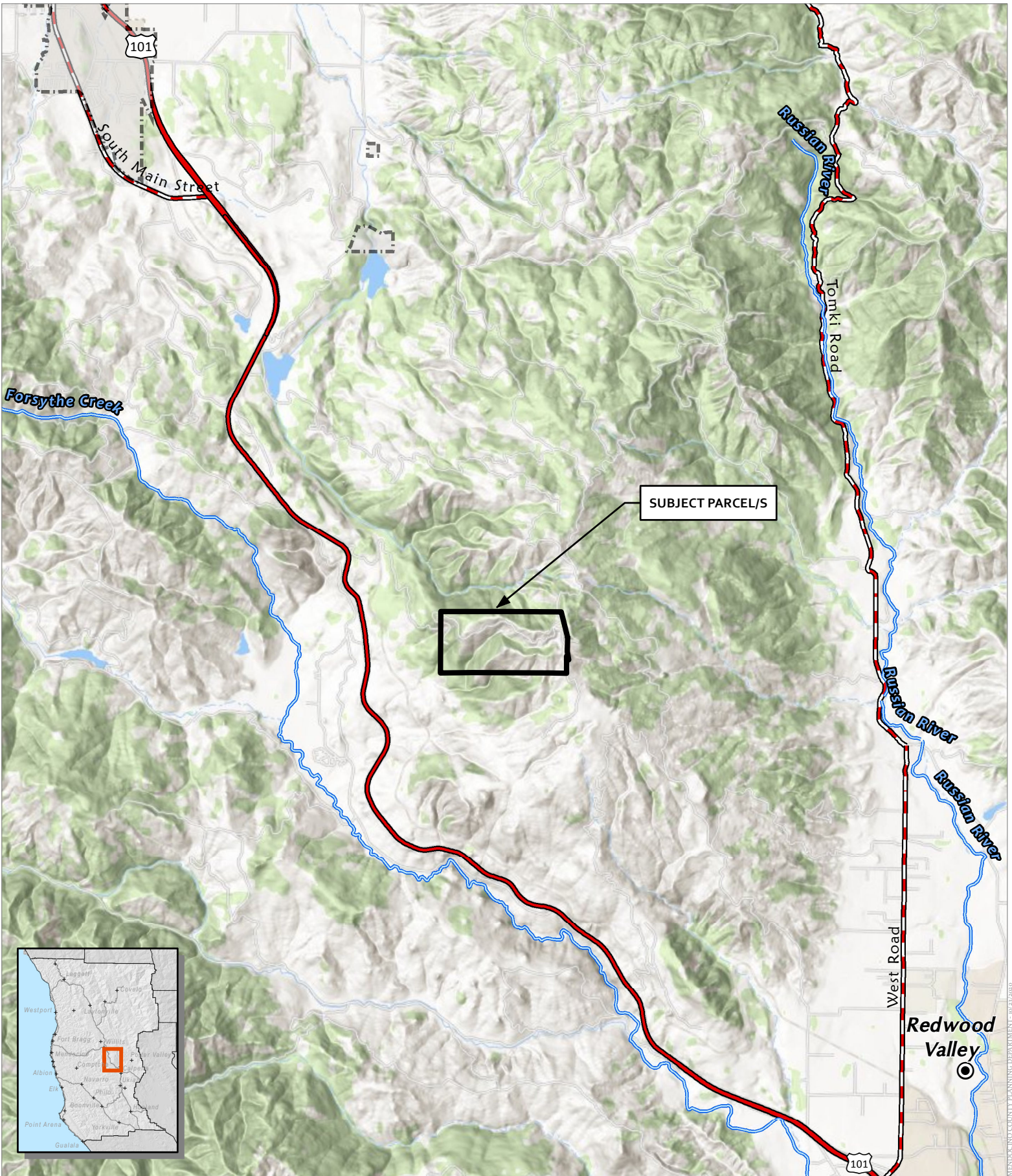
INDEMNIFICATION AND HOLD HARMLESS

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.

Applicant: Lynda McClung Date: 9/28/2020

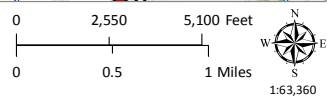


SUBJECT PARCEL/S



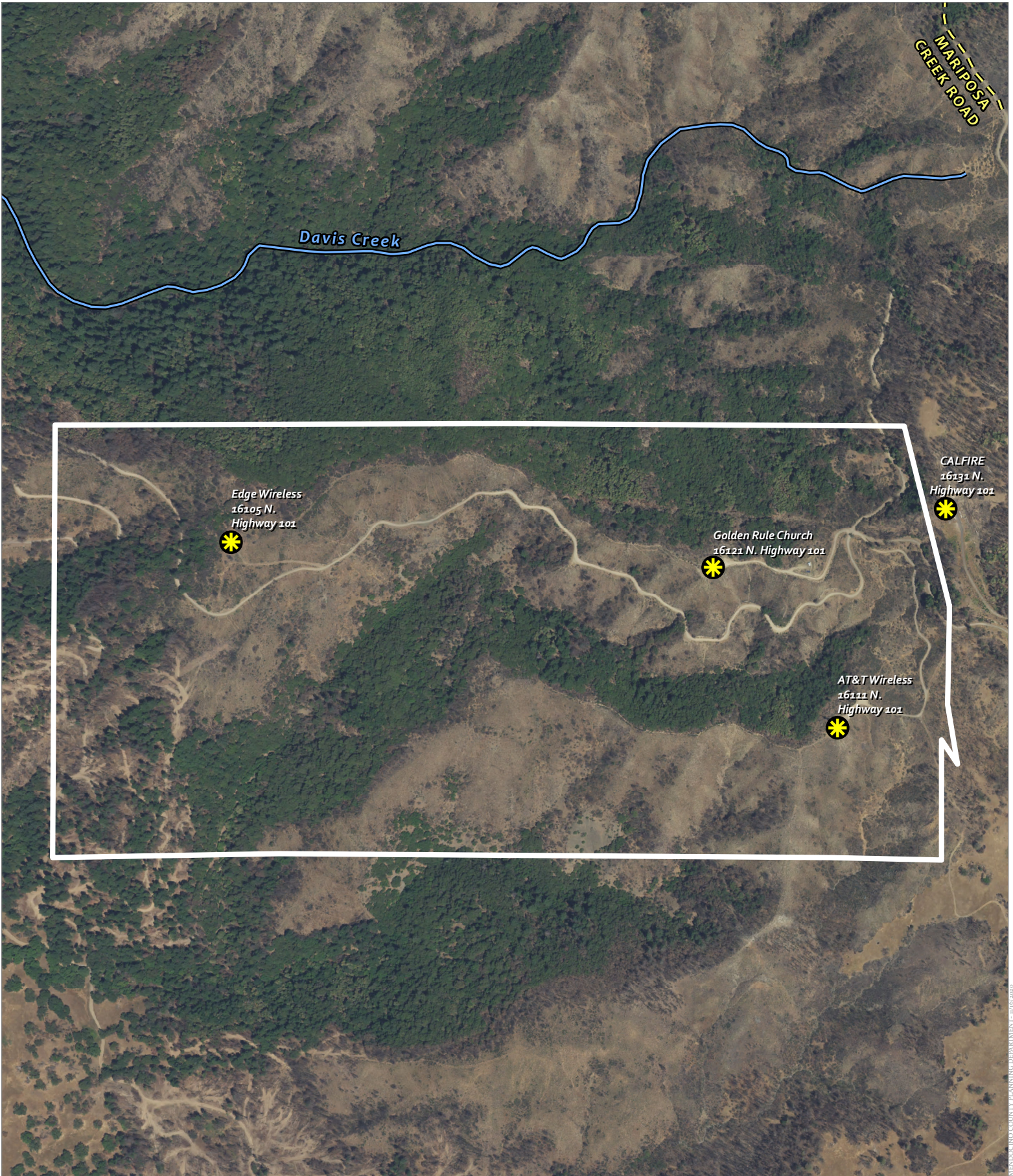
CASE: AP 2020-0042
 OWNER: Golden Rule Church Assn.
 APN: 106-150-34
 APLCT: T-Mobile West, LLC
 AGENT: Lynda McClung
 ADDRESS: 16105 N. Hwy. 101, Willits

- Major Towns & Places
- City Limits
- Major Rivers
- Highways
- Major Roads




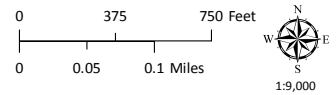
LOCATION MAP

MENDOCINO COUNTY PLANNING DEPARTMENT - 10/23/2020



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ADDRESS: 16105 N. Hwy. 101, Willits

 Wireless Sites



AERIAL IMAGERY

MENDOCINO COUNTY PLANNING DEPARTMENT - 10/10/2020

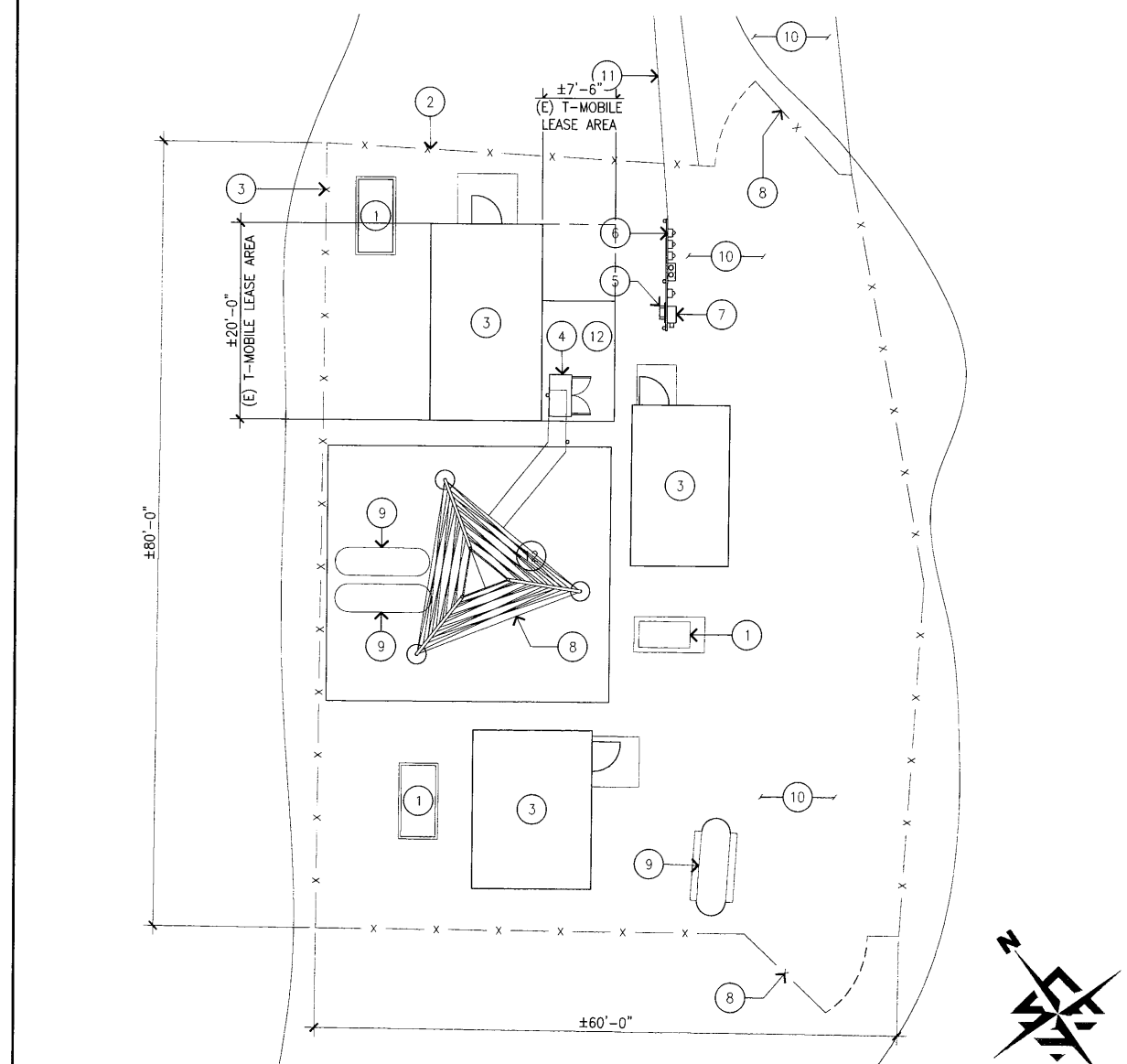
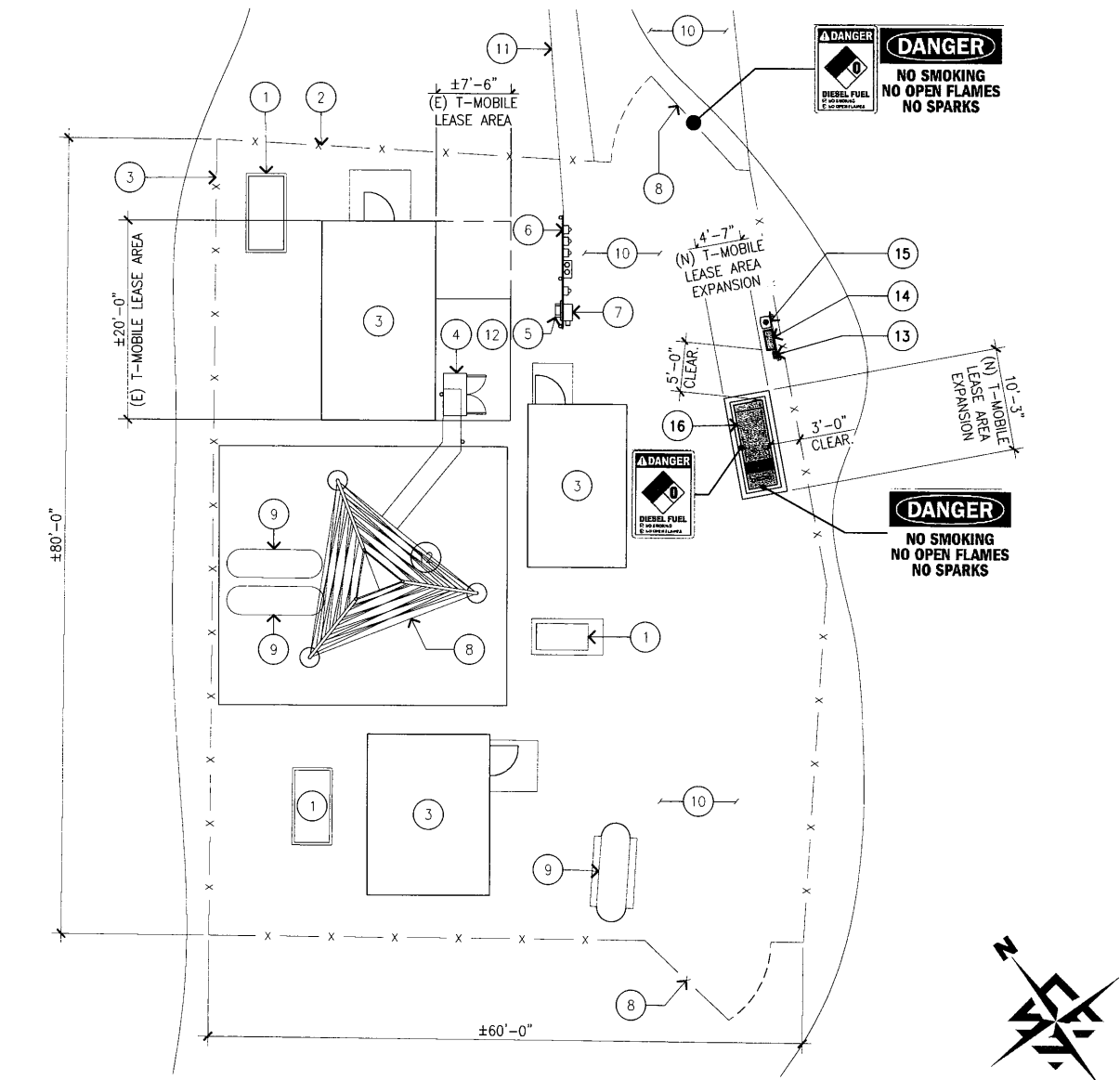
KEYNOTES:

- 1 (E) GENERATOR ON (E) CONCRETE PAD
- 2 (E) ±6'-0" TALL CHAIN LINK FENCE
- 3 (E) SHELTER UNIT
- 4 (E) T-MOBILE T-MOBILE EQUIPMENT CABINET ON (E) CONCRETE PAD
- 5 (E) T-MOBILE FIBER CIENA AND PULL BOX BELOW
- 6 (E) T-MOBILE 200A METER, TYP.
- 7 (E) T-MOBILE PPC
- 8 (E) LATTICE TOWER WITH ANTENNAS ABOVE
- 9 (E) PROPANE TANK
- 10 (E) GRAVEL
- 11 (E) OVERHEAD LINES
- 12 (E) CONCRETE PAD
- 13 (N) T-MOBILE DISCONNECT SWITCH ON (N) H-FRAME $\frac{4}{D-1}$
- 14 (N) T-MOBILE ATS ON (N) H-FRAME $\frac{4}{D-1}$
- 15 (N) PORTABLE FIRE EXTINGUISHER WITH 18 LBS CAPACITY B:C RATING INSTALLED INSIDE APPROVED RED CABINET ON (N) H-FRAME $\frac{4}{D-1}$
- 16 (N) T-MOBILE GENERAC 25 KW DIESEL GENERATOR WITH TANK ON (N) CONCRETE SLAB $\frac{1,2}{D-1}$ $\frac{3}{D-1}$

FIRE DEPARTMENT NOTES:

1. AT NO TIME WILL ANY FLAMMABLE OR COMBUSTIBLE LIQUID (e.g. PETROLEUM GASOLINE, DIESEL, OR SIMILAR) WILL BE STORED ON SITE.
2. PROVIDE PORTABLE FIRE EXTINGUISHER WITH 18 LBS CAPACITY AND A B:C RATING. EXTINGUISHER WILL BE PROVIDED IS SUFFICIENT.
3. THE AREA NEEDS TO BE CLEAR OF WEEDS, GRASS, BRUSH, TRASH AND ANY OTHER COMBUSTIBLE MATERIALS WITH A MINIMUM OF TEN (10) FEET IN ALL DIRECTIONS FROM GENERATOR.

NOTE:
CONTRACTOR TO FIELD VERIFY THE EXISTING SLAB IS 5" THICK PRIOR TO ENGAGING IN WORK AND INFORM THE ENGINEER OF RECORD IN WRITING.



(N) EQUIPMENT LAYOUT PLAN

SCALE: 1/8"=1'-0" 0 2' 5' 10' 15'

2

(E) EQUIPMENT LAYOUT PLAN

SCALE: 1/8"=1'-0" 0 2' 5' 10' 15'

1

T-Mobile
Stick Together
1855 GATEWAY BLVD., SUITE 900
CONCORD, CA 94520

PROJECT INFORMATION:
(HARDENING NATIONAL - 25KW DIESEL)
**SF40958A
LAUGHLIN**
16111 N HIGHWAY 101,
WILLITS, CA 95490
MENDOCINO COUNTY

CURRENT ISSUE DATE:
09/20/20

ISSUED FOR:
CONSTRUCTION

REV.	DATE	DESCRIPTION	BY
A	05/08/20	90% CD, ISSUED FOR REVIEW	VHB
B	09/20/20	100% CD	VJA

PLANS PREPARED BY:
Synergy
a division of advantage engineers
7543 Woodley Ave., #201, Van Nuys, CA 91406
Office: (818) 840-0808 Fax: (818) 840-0708

CONSULTANT:
Synergy
a division of advantage engineers
7543 Woodley Ave., #201, Van Nuys, CA 91406
Office: (818) 840-0808 Fax: (818) 840-0708

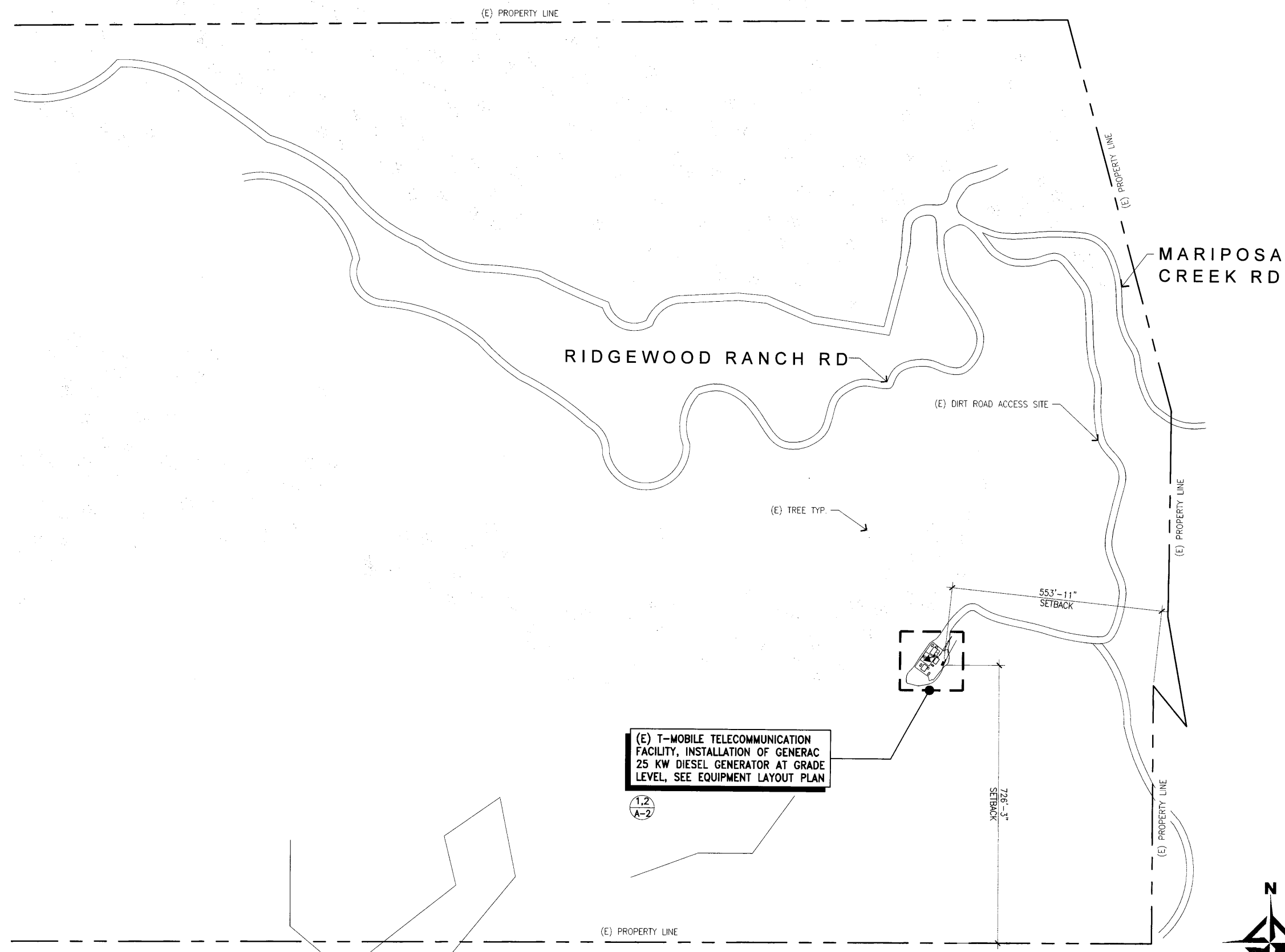
DRAWN BY: VHB
CHK.: SYNERGY
APV.: AB

LICENSURE:

SHEET TITLE:
EQUIPMENT LAYOUT PLAN

SHEET NUMBER: **A-2** REVISION: **B**
SF40958A

NOTE:
 THESE DRAWINGS HAVE BEEN CREATED BY INFORMATION GATHERED FROM
 (E) AS-BUILTS PROVIDED BY T-MOBILE AND WITHOUT A SURVEY. PLEASE
 VERIFY IN FIELD ALL DIMENSIONS, LENGTHS, PROPERTY LINES AND
 CONDUIT RUNS.



(E) T-MOBILE TELECOMMUNICATION
 FACILITY, INSTALLATION OF GENERAC
 25 KW DIESEL GENERATOR AT GRADE
 LEVEL, SEE EQUIPMENT LAYOUT PLAN

1,2
 A-2



OVERALL SITE PLAN

SCALE: 1"=100'-0"
 0 50' 100' 200'

T-Mobile
 Stick Together
 1855 GATEWAY BLVD., SUITE 900
 CONCORD, CA 94520

PROJECT INFORMATION:
 (HARDENING NATIONAL - 25KW DIESEL)
SF40958A
LAUGHLIN
 16111 N HIGHWAY 101,
 WILLITS, CA 95490
 MENDOCINO COUNTY

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CONSULTANT:

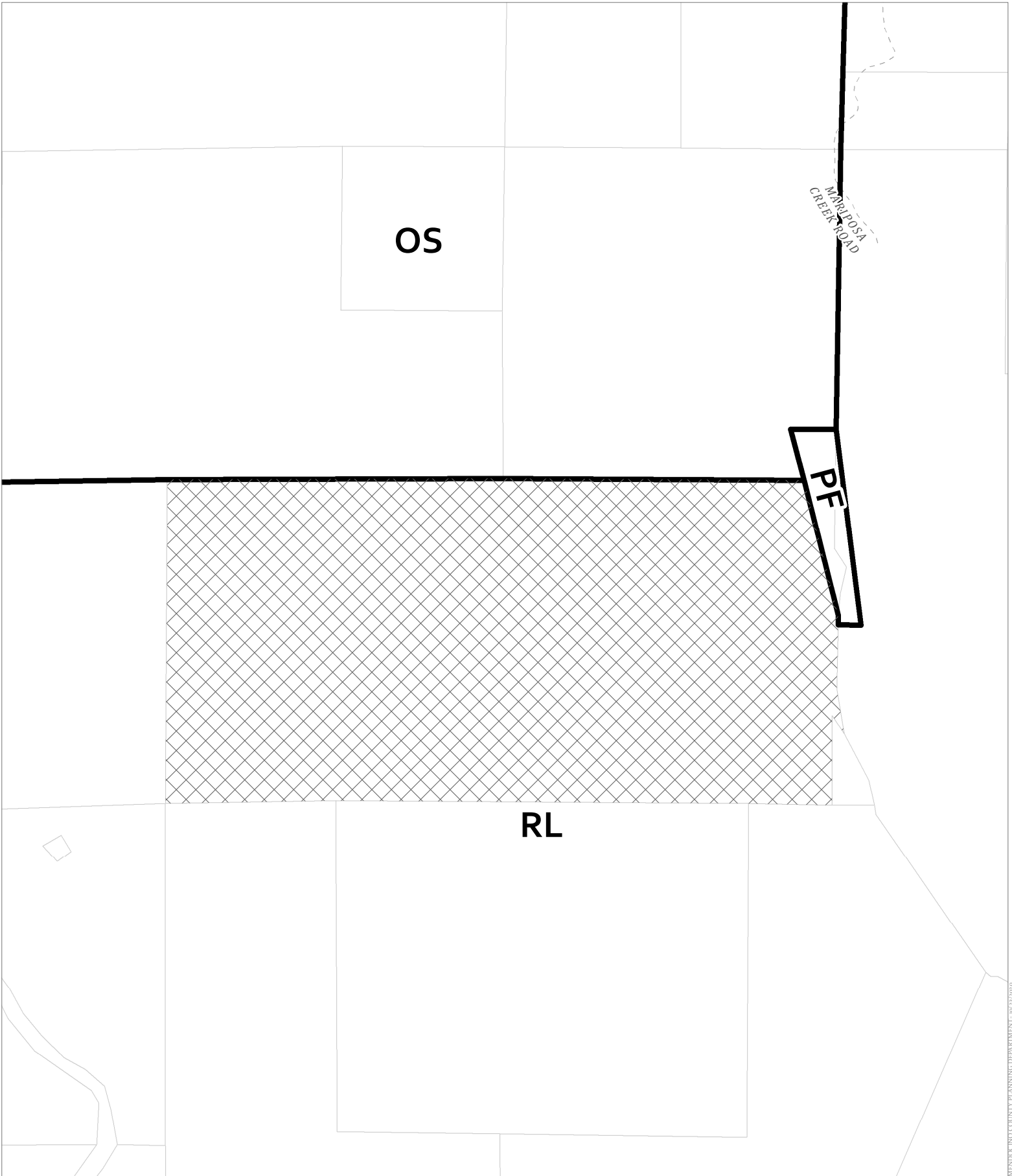
 a division of advantage engineers
 7543 Woodley Ave., #201, Van Nuys, CA 91406
 Office: (818) 840-0808 Fax: (818) 840-0708

DRAWN BY: VHB CHK.: SYNERGY APV.: AB


LICENSURE:

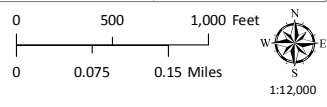
SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER: **A-1** REVISION: **B**
 SF40958A

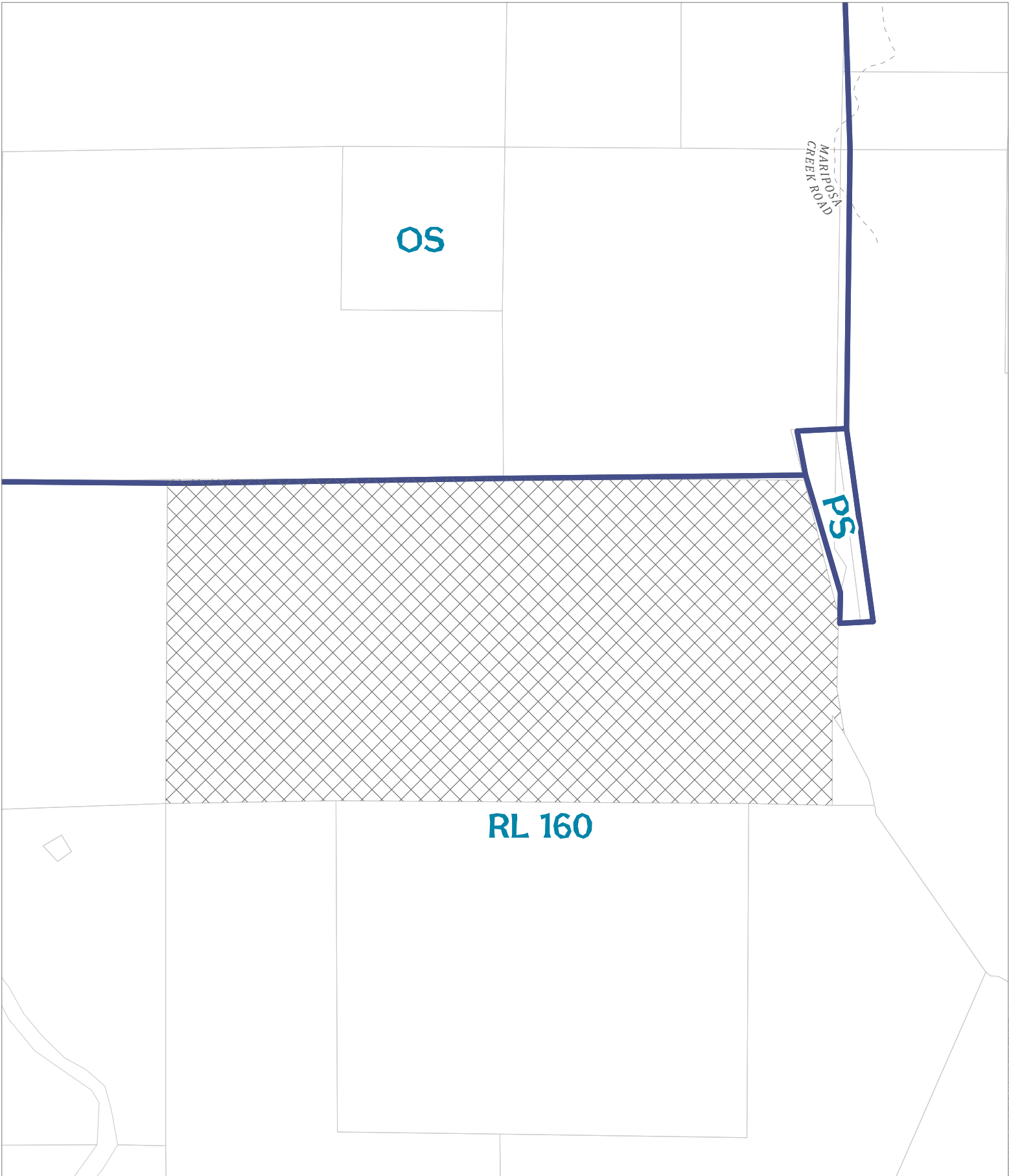


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-  Zoning Districts
-  Assessors Parcels

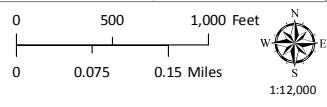


ZONING DISPLAY MAP

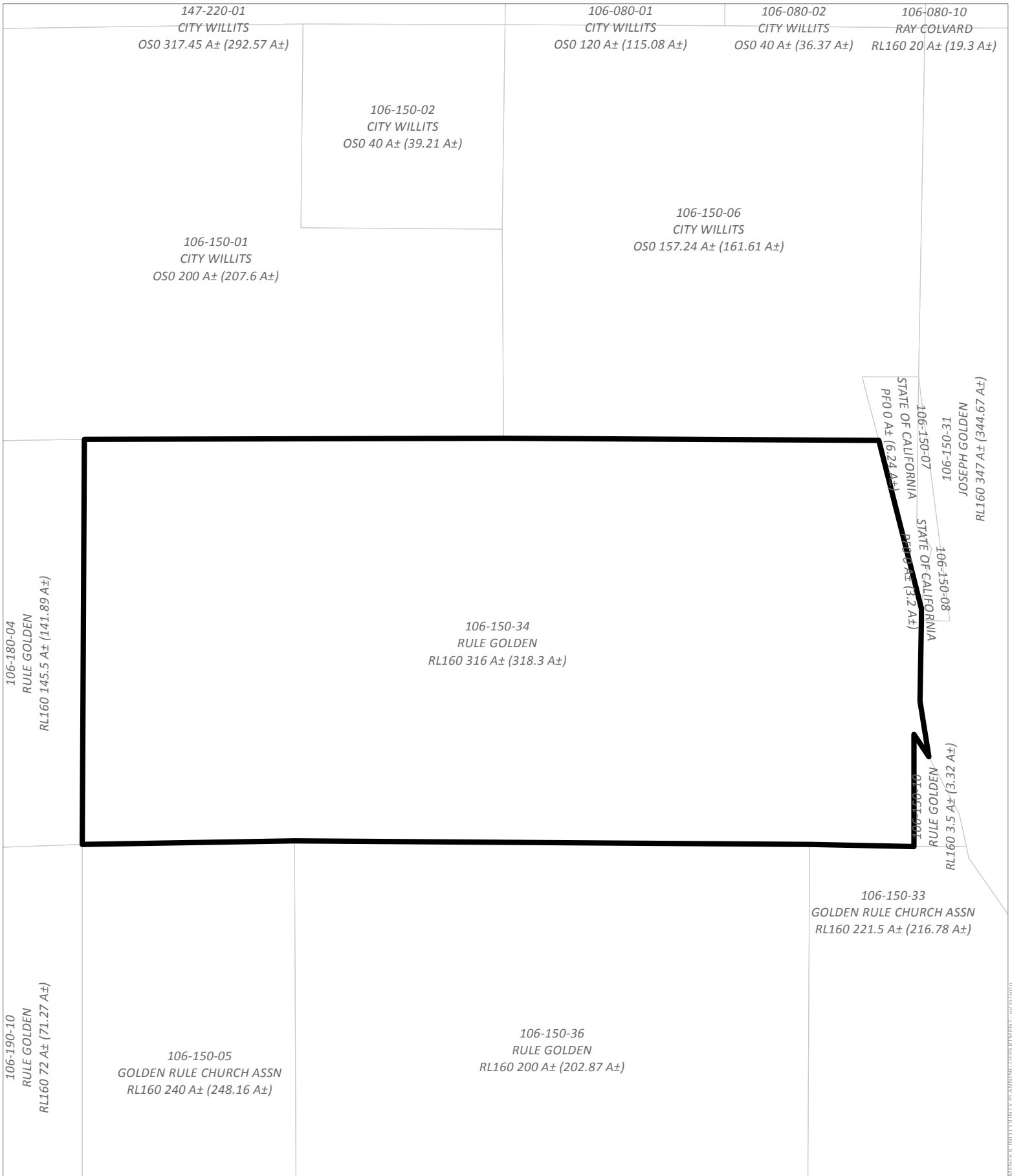


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-  General Plan Classes
-  Assessors Parcels

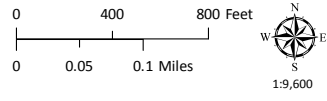


GENERAL PLAN CLASSIFICATIONS



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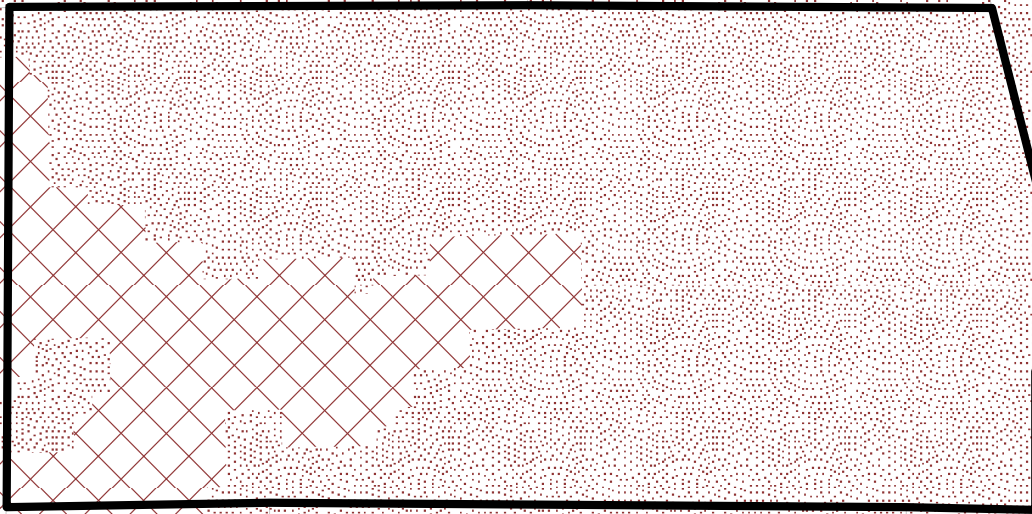
 Assessor's Parcels



ADJACENT PARCELS

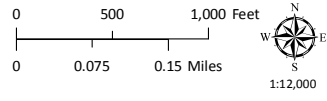
**LITTLE LAKE
FIRE PROTECTION
DISTRICT**

**REDWOOD
VALLEY/CALPELLA FIRE
PROTECTION DISTRICT**



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-  Very High Fire Hazard
-  Assessors Parcels
-  High Fire Hazard
-  County Fire Districts



REPUBLIC COUNTY PLANNING DEPARTMENT - 06/23/2020

RD025 | 25kW
INDUSTRIAL DIESEL GENERATOR SET

GENERAC INDUSTRIAL

Model Numbers
25kW: G0071920

Standby Power Rating
25 kW, 31.25 kVA, 60 Hz

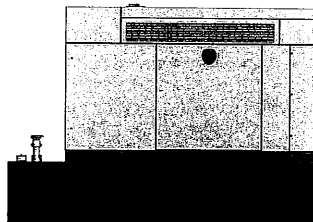


Image used for illustration purposes only.

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

- UL2200, UL489, UL142
- CSA C22.2
- BS5514 and DIN 6271
- SAE J1349
- NFPA 37, 70, 99
- ISO 3046, 8528, 9001
- NEMA ICS1, ICS10, MG1, 250, ICS6, AB1
- ANSI/IEEE C62.41

POWERING AHEAD

For over 50 years, Generac has led the industry with innovative design and superior manufacturing. Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac's gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application. Generac searched globally to ensure the most reliable engines power our generators. We chose only engines that have already been proven in heavy-duty industrial application under adverse conditions.

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

SPEC SHEET

RD025 | 25kW
INDUSTRIAL DIESEL GENERATOR SET

GENERAC INDUSTRIAL

STANDARD FEATURES

- ENGINE SYSTEM**
- Block Heater
 - Oil Drain Extension
 - Fan Guard
 - Factory Filled Oil and Coolant
- GENERATOR SET**
- Sound Attenuated Aluminum Enclosure
 - Internal Genset Vibration Isolation
 - Separation of Circuits - High/Low Voltage
 - Wrapped Exhaust Piping
 - Standard Factory Testing
 - Ready to Accept Full Load in < 10 Seconds
 - External Emergency Stop Push Button
- ENCLOSURE**
- Lockable Doors - Keyed Lock with Padlock Hasp
 - Rust Proof Hardware
 - RhinoCoat™ Textured Polyester Powder Coat
- Electrical System**
- Battery
 - Battery Charging Alternator
 - Battery Cables
 - Battery Tray
 - Rubber-Booted Engine Electrical Connections
 - Solenoid Activated Starter Motor
 - Smart Battery Charger
 - Battery Disconnect
- ALTERNATOR SYSTEM**
- 2/3 Pitch
 - Skewed Stator
 - Sealed Bearings
 - Low Temperature Rise < 120°C
 - Low THD < 5%
- Cooling System**
- Closed Coolant Recovery System
 - Factory-Installed Radiator
 - 50/50 Ethylene Glycol Antifreeze
 - Radiator Drain Extension
 - Can Operate at up to 122°F (50°C) Ambient Temperature
- Fuel System**
- Primary Fuel Filter
 - Stainless Steel Fuel Lines
- FUEL TANK**
- 48 Minimum Hour Run Time
 - UL142 Listed
 - Lockable Fuel Cap

CONTROL SYSTEM



- Evolution™ Controller**
- Two-Line Plain Text LCD Display
 - Programmable Start Delay Between 10-30Seconds
 - 10 Second Engine Start Sequence
 - 5 Second Engine Warm Up
 - 1 Minute Engine Cool-Down
 - Starter Lock-Out
 - Smart Battery Charger
 - Automatic Voltage Regulation with Over and Under Protection
 - Automatic Low Oil Pressure Shutdown
 - Over-speed Shutdown
 - High Temperature Shutdown
 - Overcrank Protection
 - Safety Fused
 - Failure to Transfer Protection
 - Low Battery Protection
 - 50 Event Run Log
 - Future Set Capable Exciter
 - Incorrect Wiring Protection
 - Internal Fault Protection
- Common External Fault Capability**
- Governor Failure Protection
 - 0802 Diagnostic Port
- Alarms**
- Door Open
 - Fuel Level
 - 90% Fuel
 - 50% Low Fuel
 - 10% Shutdown
 - Generator Raming
 - Ret in Auto
 - Common Shutdown

OPTIONAL SHIPPED LOOSE AND FIELD INSTALL KITS

- GENERATOR SET**
- Paint Kit
 - Scheduled Maintenance Kit
- FUEL TANK**
- Fuel Fill Drop Tube
 - Spill Box
 - 90% Fuel Audible Alarm
 - Tank Risers
 - Spill Box Drainback Kit
 - Vent Extension Support Kit
 - Overflow Prevention Valve

SPEC SHEET

RD025 | 25kW
INDUSTRIAL DIESEL GENERATOR SET

GENERAC INDUSTRIAL

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General		Cooling System	
Make	Perkins	Cooling System Type	Pre-Lubed Self-Sealing
EPA Emission Compliance	Substantive Emergency	Fan Type	Pusher
Cylinder #	4	Fan Speed (RPM)	1,980
Type	In-Line	Fan Diameter - mm (in)	16.0 (457.2)
Displacement - m (L)	133.2 (2,216)		
Bore - in (mm)	3.30 (84.0)	Fuel System	
Stroke - in (mm)	3.94 (100.0)	Fuel Type	Ultra Low Sulfur Diesel Fuel
Compression Ratio	23.3:1	Fuel Specification	ASTM
Intake Air Method	Turbocharged Aftercooled	Fuel Pump Type	Mechanical Engine Driven Gear
Piston Type	Aluminum Alloy	Injector Type	Mechanical
Crankshaft Type	Cast Iron OHF	Fuel Supply Line mm (in)	7.94 (0.311) ID
Engine Block Type	Aluminum	Fuel Return Line mm (in)	4.76 (0.19) ID
		Fuel Filter (microns)	25
Engine Governing		Engine Electrical System	
Governor	Electronic	System Voltage	12 VDC
Frequency Regulation (Steady State)	±0.2%	Battery Charger Alternator	Standard
		Battery Size	Group 77F
Lubrication System		Battery Voltage	12 VDC
Oil Pump Type	Gear	Ground Polarity	Negative
Oil Filter Type	Full Flow Spin-On Canister		
Crankcase Capacity - L (qt)	10.6 (11.2)		

ALTERNATOR SPECIFICATIONS

Standard Model	Generac	Standard Excitation	Direct
Poles	4	Rectifier	Sealed Ball
Field Type	Resistor	Coil/Type	Flexible Disc
Insulation Class - Motor	F	Performance Short Circuit Test	Yes
Insulation Class - Stator	H	Voltage Regulator Type	Full Digital
Total Harmonic Distortion	<5%	Request Accuracy (Steady State)	± 1.0%
Telephone Interference Factor (TIF)	<50		

SPEC SHEET

RD025 | 25kW
INDUSTRIAL DIESEL GENERATOR SET

GENERAC INDUSTRIAL

OPERATING DATA

POWER RATINGS

Standby	Single-Phase 120/240 VAC @ 1 Ø/1	25 kW	Amps: 104	Circuit Breaker Size Amps: 125
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MOTOR STARTING CAPABILITIES (kVA)

kVA vs. Voltage Dip at 30%	120/240 V, Single-Phase at 0.4pf	160 Amps
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FUEL CONSUMPTION RATES*

Percent Load	Diesel (gal/hr)
25%	0.85 (3.2)
50%	1.28 (4.8)
75%	1.65 (6.2)
100%	2.10 (7.9)

* Fuel usage includes most accessories but does not include: 1) 100% load, 2) 100% load, 3) 100% load.

COOLING

	Standby
Air Flow (Radiator and Alternator)	cfm (m ³ /min)
Coolant System Capacity	gal (l)
Temperature Deration	3% for every 5°C above 25°C or 1.7% for every 5°F over 77°F
Absolute Deration	1% for every 100 m above 915 or 3% for every 1,000 ft over 3,000 ft
Maximum Ambient Temperature Operating Range	°F (°C)
Maximum Radiator Backpressure	in H ₂ O

COMBUSTION AIR REQUIREMENTS

Flow at Rated Power	Standby
cfm (m ³ /min)	87.9 (2.5)

ENGINE

Standby	EXHAUST	Standby
Rated Engine Speed	RPM	1,800
Exhaust Flow (Rated Output)	cfm (m ³ /min)	268.4 (7.6)
Exhaust Temp (Rated Output - Post Silencers)	F (°C)	855 (463)

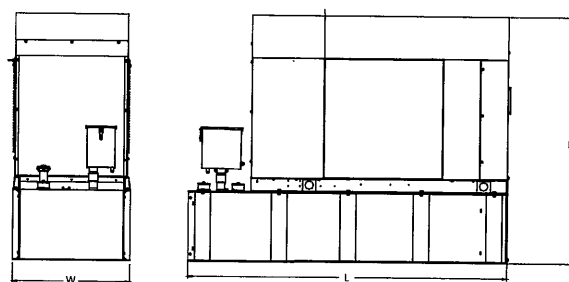
Deration - Deration of backflow corrector maximum ambient conditions. Deration factors may apply under specific site conditions. Please consult a Generac Power Systems Distributor for detailed details. All performance ratings in accordance with ISO 8528, BS5514, G0071920 and G06271 standards.

SPEC SHEET

RD025 | 25kW
INDUSTRIAL DIESEL GENERATOR SET

GENERAC INDUSTRIAL

DIMENSIONS AND WEIGHTS*



Weights and Dimensions

Unit Weight - lbs	Unit Weight with Skid - lbs	Dimensions (L x W x H) - in
2,946	2,984	103.4 x 35.0 x 91.7

25kW Fuel Consumption

Fuel Tank Gross Total Capacity	240
Fuel Tank Gross Usable Capacity	229
Fuel Tank Net Usable Capacity (48 Hours Based on Net Usable Capacity)	206
Run Hours 100% Load	98
Run Hours 75% Load	125
Run Hours 50% Load	161

Sound Emission Data

Rated Load Sound Output at 23ft - dB(A)	65
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* All measurements are appropriate and for illustration purposes only. Dimensions for illustration purposes only, not for scale.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.

SPEC SHEET

STATEMENT OF EXHAUST EMISSIONS
2018 PERKINS DIESEL FUELED GENERATOR

The measured emissions values provided here are proprietary to Generac and its authorized dealers. This information may only be disseminated upon request, to regulatory governmental bodies for emissions permitting purposes or to specifying organizations as submittal data when expressly required by project specifications, and shall remain confidential and not open to public viewing. This information is not intended for compilation or sales purposes and may not be used as such, nor may it be reproduced without the expressed written permission of Generac Power Systems, Inc. The data provided shall not be meant to include information made public by Generac.

Generator Model:	RD025	EPA Certificate Number:	JH3XL2.22TCC-003
KW Rating:	25	CARB Certificate Number:	Not Required
Engine Family:	JH3XL2.22TCC	SCAQMD CEP Number:	Not Required
Engine Model:	404D-22TAG	Emission Standard Category:	Tier 4 Interim
Rated Engine Power (BHP)*:	48.8	Certification Type:	Stationary Emergency CI (40 CFR Part 60 Subpart III)
Fuel Consumption (gal/hr)*:	2.77		
Aspiration:	Turbo/Aftercooled		
Rated RPM:	1800		

*Engine Power and Fuel Consumption are declared by the Engine Manufacturer of Record and the U.S. EPA.

Emissions based on engine power of specific Engine Model.
(These values are actual composite weighted exhaust emissions results over the EPA 5-mode test cycle.)

CO	NOx + NMHC	PM	Grams/kW-hr
0.72	5.08	0.116	
0.54	3.79	0.087	Grams/bhp-hr

- The stated values are actual exhaust emission test measurements obtained from an engine representative of the type described above.
- Values based on 5-mode testing are official data of record as submitted to regulatory agencies for certification purposes. Testing was conducted in accordance with prevailing EPA protocol, which is typically accepted by SCAQMD and other regional authorities.
- No emissions values provided above are to be construed as a guarantee of emission levels for any given Generac generator unit.
- Generac Power Systems, Inc. reserves the right to revise this information without prior notice.
- Control state and local regulatory agencies for specific permitting requirements.
- The emission performance data supplied by the equipment manufacturer is only one element required toward completion of the permitting and installation process. State and local regulations may vary on a case-by-case basis and local agencies must be consulted by the permit application/equipment owner prior to equipment purchase or installation. The data supplied herein by Generac Power Systems cannot be construed as a guarantee of installability of the generating set.

WARRANTY & CERTIFICATES



1855 GATEWAY BLVD., SUITE 900
CONCORD, CA 94520

PROJECT INFORMATION:
(HARDENING NATIONAL - 25KW DIESEL)

SF40958A
LAUGHLIN

16111 N HIGHWAY 101,
WILLITS, CA 95490
MENDOCINO COUNTY

CURRENT ISSUE DATE:

09/20/20

ISSUED FOR:

CONSTRUCTION

REV. DATE DESCRIPTION BY

A	05/08/20	90% CD, ISSUED FOR REVIEW	VHB
B	09/20/20	100% CD	VJA

PLANS PREPARED BY:



7543 Woodley Ave., #201, Van Nuys, CA 91406
Office: (818) 840-0808 Fax: (818) 840-0708

CONSULTANT:



7543 Woodley Ave., #201, Van Nuys, CA 91406
Office: (818) 840-0808 Fax: (818) 840-0708

DRAWN BY: CHK.: APV.:

VHB SYNERGY AB

LICENSURE:



SHEET TITLE:

GENERATOR SPECIFICATIONS

SHEET NUMBER: REVISION:

D-2

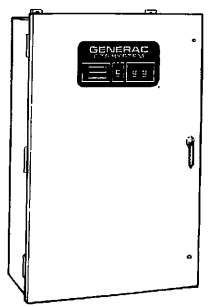
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SF40958A

GENERATOR SPECIFICATIONS

GENERAC INDUSTRIAL

100 - 400 Amps, 600 VAC Automatic Transfer Switches



- Standard time delay neutral will reduce switcher problems.
- Logic control with inphase monitor regulates switch functions and allows adjustable switch settings with LED indicators.
- Control switches located on the front of the door for ease of operation.
- All switches are UL 1008 listed and CSA certified.
- Electrically-operated, mechanically-held and interlocked main contacts with break before make design for fast, positive connections.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive with no derates.
- 2, 3, and 4 Pole 600 VAC contactors.
- 160 millisecond transfer time.

- ### Standard Features
- Single coil design, electrically operated and mechanically held
 - Programmable exerciser
 - SPDT auxiliary contacts
 - Main contacts are silver alloy to resist welding and sticking
 - Conformal coating protects all printed circuit boards
 - Indicating LEDs for switch position—Normal, Emergency, and Standby Operating
 - NEMA 1 enclosure with hinged door and key-locking handle
 - Three-position switch—Fast Test, Auto, Normal Test
 - Arc chutes on main contacts
- ### Optional Accessories
- NEMA 12 enclosure
 - NEMA 3R enclosure
 - NEMA 4 & 4X enclosure
 - Exterior AC meter package
 - Controls accessible through door in door design on NEMA type 3R and 4 enclosures - key lock provided on access door
 - 4-pole design for neutral isolation
 - Two (2) sets of auxiliary contacts
 - Preferred source selector switch
 - Manual 3 position selector switch
 - Remote automatic control circuit
 - Signal before transfer contacts
 - Return to normal timer bypass

GENERAC INDUSTRIAL

GTS Control Systems

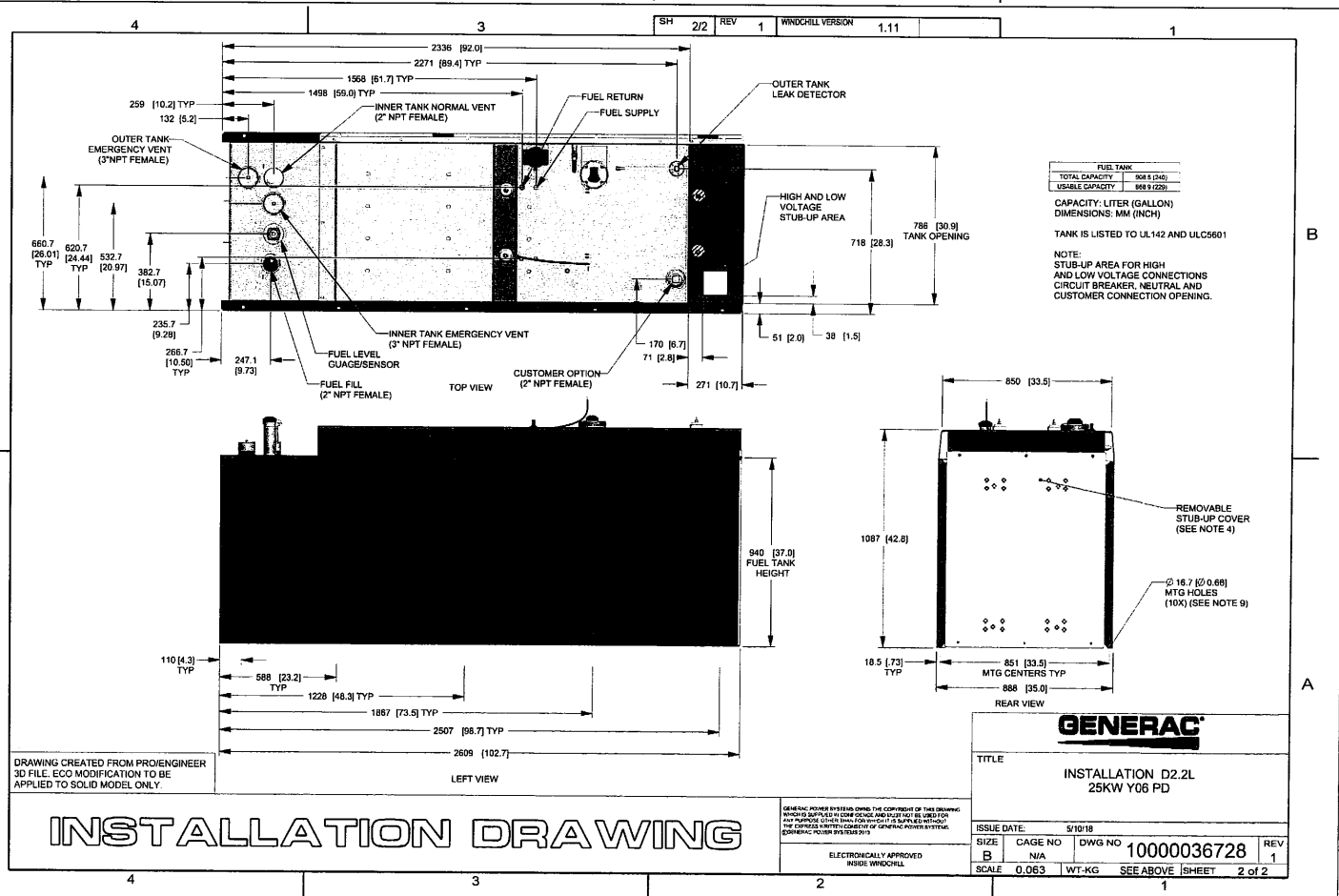
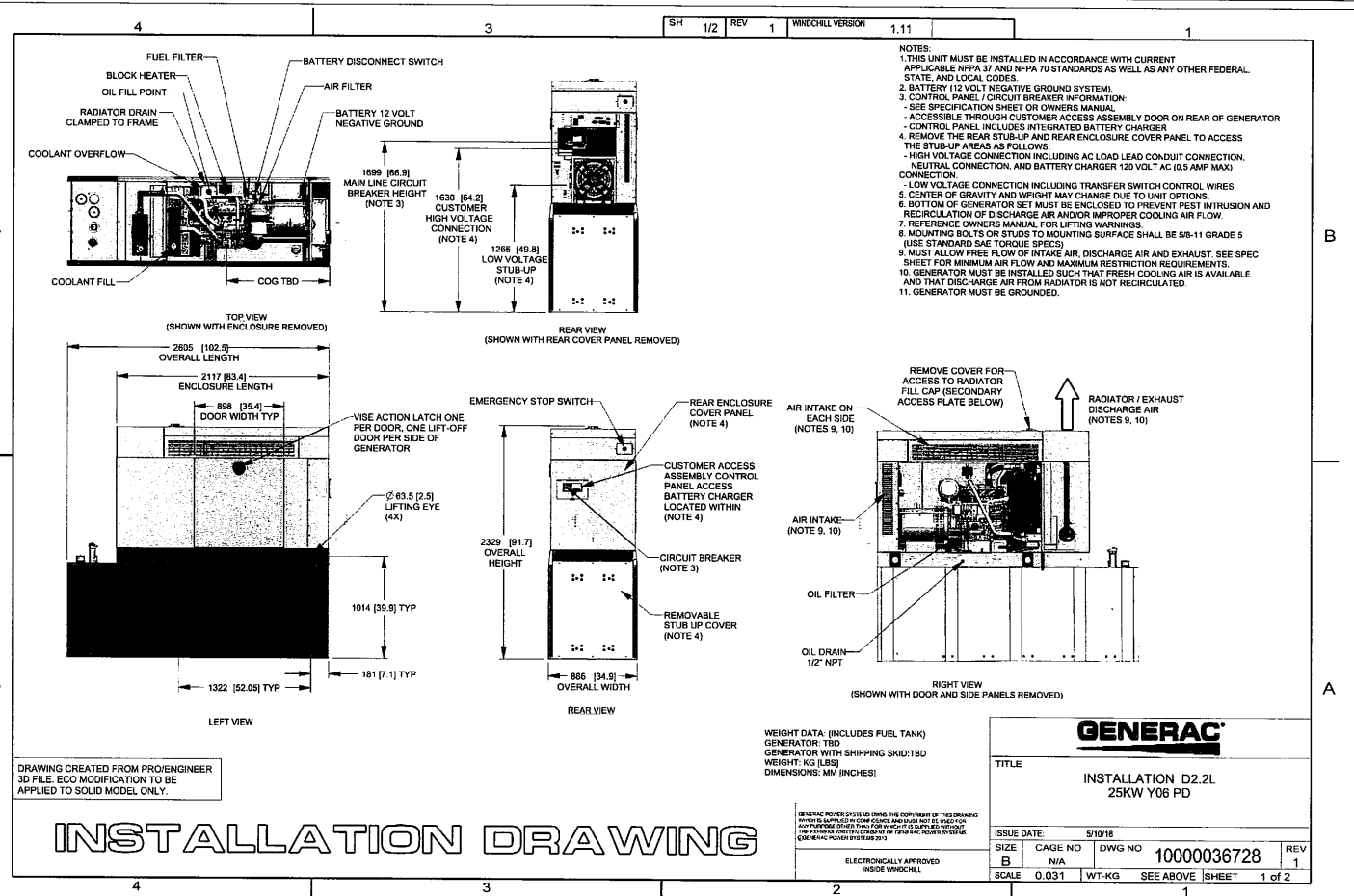
Utility Voltage Dropout	75-95% (Adj.)
Line Interrupt Pick-up	0.1-1.0 Sec. (Adj.)
Engine Minimum Run	5-30 Min. (Adj.)
Engine Warmup	5 Sec.-3 Min. (Adj.)
Return to Utility	1-30 Min. (Adj.)
Engine Cutdown	1-30 Min. (Adj.)
Standby Voltage	85-95% (Adj.)
Standby Frequency	80-90% (Adj.)
Time Delay Neutral	0.1-1.0 Sec. (Adj.)
Transfer on Exercise	On/Off Switch
Warmup Timer Bypass	On/Off Switch
Time Delay Neutral Bypass	On/Off Switch
Inphase Monitor	On/Off Switch

GTS Rated Amps	100	150	200	300	400
FUSE PROTECTED					
Maximum RMS Symmetrical Fault Current - Amps	200,000	200,000	200,000	200,000	200,000
Maximum Fuse Size - Amps	200	400	400	600	600
Fuse Class	J.T	J.T	J.T	J.T	J.T
CIRCUIT BREAKER PROTECTED (See separate sheet for specific circuit breakers)					
Maximum RMS Symmetrical Fault Current - Amps	14,000	25,000	25,000	35,000	35,000
Protective Device Continuous Rating (Max) - Amps	150	300	300	600	600

GTS Rated Amps	Voltage	Enclosure		Wall Mount		Enclosure Depth		Weight (lbs.)
		H	W	M1	M2	D1	D2	
100	All	36	24	18	37.5	12.7	10	180
150-200	120/240	36	24	18	37.5	12.7	10	185
150-200	277/480	48*	30*	24	49.5	14.8	12	265
150-200	600	48*	30*	24	49.5	14.8	12	265
300-400	120/240	36	24	18	37.5	12.7	10	245
300-400	120/208	36	24	18	37.5	12.7	10	245
300-400	277/480	48*	30*	24	49.5	14.8	12	325
300-400	600	48*	30*	24	49.5	14.8	12	325

GTS RATED AMPS	CONDUCTOR TERMINALS (1 USE PER POLE)	LUG WIRE RANGE	# LEGS	TERMINAL BAY*	LUG WIRE RANGE	GROUND LUG (1 PROVIDED)	LUG WIRE RANGE
150	2/0 - 14 AWG	2/0 - 14 AWG	4	300CM - 4 AWG	3/0 - 14 AWG	2/0 - 14 AWG	
200	300CM - 4 AWG	300CM - 4 AWG	4	300CM - 6 AWG	300CM - 6 AWG	300CM - 6 AWG	
300	400CM - 4 AWG	400CM - 4 AWG	4	300CM - 6 AWG	300CM - 6 AWG	300CM - 6 AWG	
400	600CM - 4 AWG	600CM - 4 AWG	4	600CM - 4 AWG	600CM - 4 AWG	600CM - 4 AWG	
	or 2 - (250CM - 1/0 AWG)	or 2 - (250CM - 1/0 AWG)		600CM - 1/0 AWG	600CM - 1/0 AWG	600CM - 1/0 AWG	
	or 2 - (250CM - 4 AWG)	or 2 - (250CM - 4 AWG)		600CM - 4 AWG	600CM - 4 AWG	600CM - 4 AWG	
	or 2 - (250CM - 1/0 AWG)	or 2 - (250CM - 1/0 AWG)		600CM - 1/0 AWG	600CM - 1/0 AWG	600CM - 1/0 AWG	

* Not included in GTS with switched neutral. ** Allowable wire range in brackets is for 2 wires per leg.
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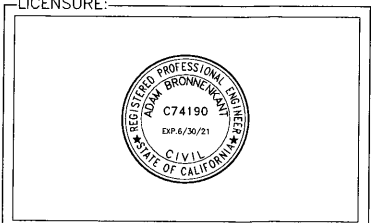
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B	09/20/20	100% CD	VJA

PLANS PREPARED BY:
 Synergy
 a division of advantage engineers
 7543 Woodley Ave., #201, Van Nuys, CA 91406
 Office: (818) 840-0808 Fax: (818) 840-0708

CONSULTANT:
 Synergy
 a division of advantage engineers
 7543 Woodley Ave., #201, Van Nuys, CA 91406
 Office: (818) 840-0808 Fax: (818) 840-0708

DRAWN BY: VHB CHK.: SYNERGY APV.: AB



SHEET TITLE:
SPECIFICATIONS

SHEET NUMBER: D-3 REVISION: B

SF40958A