COMMUNICATIONS TOWER BIOLOGICAL SITE EVALUATION FORM

1. Location (Provide maps if possible): 2715 Giffen Ave., Santa Rosa, CA 95404
   State: CA
   County: Sonoma
   Latitude/Longitude/GPS Grid: N 38° 25' 03.04" W 122° 45' 02.20"

2. Elevation above mean sea level: 112-ft AMSL

3. Will the equipment be co-located on an existing FCC licensed tower or other existing structure (building, water tank, etc)? Y/N NO If yes, type of structure: N/A

4. If yes, will the compound be expanded: No
   If yes, will the tower be extended: No

5. If No, provide proposed specifications for the proposed tower:
   Height: 80-ft (85-ft AGL overall with appurtenances)
   Construction Type (lattice, monopole, etc.): monopole
   Guyed-Wire? NO Bands: N/A Total No. Wires: 0
   Lightning (Security and Aviation): anticipated to be an unlit structure

6. Area of tower footprint in acres or square feet:
   Proposed 25-ft x 100-ft fenced tower compound lease area: 2,500-ft^2 (~0.057 -acres)
   Proposed 6-ft wide x ~ 970-ft long fiber/utility easement and 6-ft by ~480-ft electrical/utility easement: ~ 8,700-ft^2 (~0.20-acres)
   Total area: ~ 11,200-ft^2 (~0.257 -acres)

7. Length and width of access road in feet: N/A

8. General description of terrain (mountains, rolling hills, flat, flat to undulating, etc.). Photographs of the site and surrounding area are beneficial: Recently cleared land within a commercial/industrial property and parking lot.

9. Meteorological conditions (incidence of fog, low ceilings, rain, etc.): November 3, 2022; Sunny, Clear Skies

10. Soil Type(s): According to the USDA Web Soil Survey of Sonoma County, CA, the soils of the subject property are identified as Clear Lake clay, ponded, 0 to 2 percent slopes. Clear Lake soils are described as poorly drained, found in basin floors, and formed from alluvium derived from igneous and sedimentary rock. A typical Clear Lake soil profile consists of clay from 0 to 52-inches and clay loam from 53 to 72-inches below ground surface (BGS).

11. Habitat types and land use on and adjacent to the site:

Habitat Type:	Acreage:	% of Total:
Cleared/urban	~0.257-acres	100%

    Adjacent land use: institutional/commercial land, and parking lot/road.

12. Dominant vegetative species in each habitat type:
    The area was observed to be a cleared grass/landscaped area.

13. Average diameter breast height of dominant tree species in forested areas: NA

14. Will construction at this site cause fragmentation of a larger block of habitat into two or more smaller blocks? Y/N NO If yes, describe: N/A

15. Is evidence of bird roosts or rookeries present? Y/N NO If yes, describe: N/A

16. Distance to nearest wetland area (forested swamp, marsh, riparian, marine, etc.), and coastline, if applicable: According to the USFWS Wetland Mapper, the closest wetland area is a freshwater riverine system located approximately 1,200-ft south of the proposed tower centerline.

17. Distance to nearest telecommunications tower: According to the FCC-ASR online registration search, the nearest registered tower is located approximately 1.10-miles northeast of the proposed tower centerline.

18. Potential for co-location of antennas on existing towers or other structures: Unknown

19. Have measures been incorporated for minimizing impacts to migratory birds? Y/N YES If yes, describe: The proposed tower is less than 200-ft AGL, is monopine in design, does not utilize guy wires, and is anticipated to be an unlit structure, minimizing the impact to migratory birds. The tower is not located on a mountaintop or in any other area known to exhibit frequent foggy conditions.

    Has an evaluation been made to determine if the proposed facility may affect listed or proposed endangered or threatened species or their habitats as required by FCC regulations at 47 CFR 1.1307(a)(3)? Y/N YES If yes, present findings: During the on-site investigation, TEP observed no occurrences of State or Federally Listed Threatened or Endangered Species for Sonoma County. Given that the action area is located in a cleared areas within an industrial/commercial park and the lack of suitable habitat, it is the opinion of TEP that the proposed action **no effect** on federally or state listed species.

20. Additional information required:

    Review of the USFWS – Sonoma County – Sacramento Fish And Wildlife Office Official Species List (Project Code: 2023-0026089) dated December 16, 2022 for the project indicated the possible presence of eight (8) federally endangered species: California Tiger Salamander (*Ambystoma californiense*), California Freshwater Shrimp (*Syncaris pacifica*), Burke's Goldfields (*Lasthenia burkei*), Clara Hunt's Milk-vetch (*Astragalus clarianus*), Sebastopol Meadowfoam (*Limnanthes vinculans*), Showy Indian Clover (*Trifolium amoenum*), Sonoma Sunshine (*Blennosperma bakeri*), and White Sedge (C*arex albida*); three (3) federally threatened species: California Red-legged Frog (*Rana draytonii*), Green Sea Turtle (*Chelonia mydas*), and Northern Spotted Owl (*Strix occidentalis caurina*); and one (1) candidate species: monarch butterfly (*Danaus plexippus*). The site inspection performed on November 3, 2022 consisted of a pedestrian inspection of the proposed action area and immediate vicinity for indications of the presence of federally listed species and/or their critical habitats and preferred/suitable habitats, as described by the USFWS.

    Further, according to the USFWS – Trust Resources List, officially designated critical habitats for California Tiger Salamander (*Ambystoma californiense*) is on, or in the vicinity of the proposed action area. According to the USFWS, primary constituent elements (PCEs) essential to the conservation of a protected species are used in the determination of which areas are designated critical habitat. These PCEs include but are not limited to: space for individual/population growth, food, water,

air, light, minerals, or other nutritional or physiological requirements, cover for shelter, sites for breeding or child rearing, and habitats that are protected from disturbance or are representative of the historical/geographical/ecological distributions of the protected species.

At the time of inspection on November 3, 2022, the area in the vicinity of the proposed action area consisted of a cleared/landscaped areas located in an industrial/commercial park.

Summary of effects on federally endangered species:

California Tiger Salamander (*Ambystoma californiense*): According to the USFWS, the California tiger salamander is a large, stocky salamander with a broad, rounded snout. Their small eyes, which have black irises, protrude from their heads. Males are typically larger than females. California tiger salamanders require access to both aquatic and upland habitat throughout their life cycle. They use standing bodies of fresh water, like ponds, vernal pools and other ephemeral or permanent water bodies for breeding. These bodies of water must hold water for a minimum of 12 weeks to support the salamander larvae development. According to the USFWS IPaC List for this site, critical habitat for California Tiger Salamander exists on or in the vicinity of the proposed action area. For California tiger salamander (CTS), the PCEs essential to the conservation of the species are as follows: (1) Standing bodies of fresh water (including natural and manmade (e.g., stock)) ponds, vernal pools, and other ephemeral or permanent water bodies which typically support inundation during winter rains and hold water for a minimum of 12 weeks in a year of average rainfall; (2) Upland habitats adjacent and accessible to and from breeding ponds that contain small mammal burrows or other underground habitat that CTS depend upon for food, shelter, and protection from the elements and predation; (3) Accessible upland dispersal habitat between occupied locations that allow for movement between such sites. Based on the extent of existing disturbance in the vicinity of the proposed action area and distance to aquatic resources, it is the opinion of TEP that no suitable habitat exists within the limits of disturbance. Additionally, it is the opinion of TEP that no PCEs are present within the vicinity of the proposed action area. For this reason, it is the opinion of TEP that the proposed action will have **no effect** on the California Tiger Salamander and will have **no effect** on the designated critical habitat for the California Tiger Salamander.

California Freshwater Shrimp (*Syncaris pacifica*): According to the USFWS, the California freshwater shrimp reaches a maximum length of 1.96 inches (50 millimeters), and females are generally larger than males. Juveniles and males appear translucent to nearly transparent while mature females are often brown with a tan stripe down its back. The California freshwater shrimp is readily distinguished from other shrimp species that are found in California by the tiny tufts of hair-like structures on the claws of the first and second pairs of legs. Females range in size between 1.38 to 1.96 inches (35 to 50 millimeters) in length. Males range in size from 1.18 to 1.38 inches (30 to 35 millimeters) in length. The California freshwater shrimp is found in low elevation, low gradient, freshwater streams in Marin, Napa and Sonoma counties, California. The shrimp typically shelters near the edges of stream pools and under stream banks, exposed root material, or submerged leafy branches. Based on the lack of suitable habitat and distance to aquatic resources, it is the opinion of TEP that the proposed action will have **no effect** on the California Freshwater Shrimp.

Burke's Goldfields (*Lasthenia burkei*): According to the California Department of Fish and Wildlife, Burke’s goldfields are a small annual herb that grows in vernal pools and swales. Most occurrences have been found in the Santa Rosa Plain area of Sonoma County, but population records also exist from Napa, Lake, and Mendocino Counties. Based on lack of suitable habitat and distance to aquatic resources, it tis the opinion of TEP that the proposed action will have **no effect** on the Burke's Goldfields.

Clara Hunt's Milk-vetch (*Astragalus clarianus*): According to the California Department of Fish and Wildlife, Clara Hunt's Milk-vetch has been found in grasslands and in openings of blue oak/manzanita

woodland. The plants have been found on thin, rocky clay soils that are derived from volcanic or serpentine substrates. Based on the urban nature of the project area and lack of suitable habitat, it is the opinion of TEP that the proposed action will have **no effect** on the Clara Hunt's Milk-vetch.

Sebastopol Meadowfoam (*Limnanthes vinculans*): According to the California Department of Fish and Wildlife, Sebastopol meadowfoam occurs naturally in Sonoma and Napa Counties with most populations located in the central and southern portions of the Santa Rosa Plain near the City of Santa Rosa. Sebastopol meadowfoam is a small annual plant with white flowers that appear April through May. The Sebastopol Meadowfoam is found in vernal pools. Based on lack of suitable habitat and distance to aquatic resources, it is the opinion of TEP that the proposed action will have **no effect** on the Sebastopol Meadowfoam.

Showy Indian Clover (*Trifolium amoenum*): According to the encyclopedia.com, Showy Indian clover, Trifolium amoenum, a member of the pea family (Fabaceae or Leguminosae), is hairy, erect, and grows to a height of 4-27 in (10-68.5 cm). The leaves are pinnately compound, widely obovate, and 0.8-1.2 in (2-3 cm) long. The flowers, purple with white tips, are 0.5-0.6 in (1-1.5 cm) long and occur in dense, round or ovoid heads that are 0.8-1.2 in (2-3 cm) long. Showy Indian clover has been found historically at elevations up to 1,020 ft (311 m) in a variety of habitats that include low wet swales, grasslands, and grassy hillsides. Based on the lack of suitable habitat and the urban nature of the project area, it is the opinion of TEP that the proposed action will have **no effect** on the Showy Indian Clover.

Sonoma Sunshine (*Blennosperma bakeri*): According to the California Department of Fish and Wildlife, Sonoma sunshine occurs naturally in Sonoma County, and is found in vernal pools and wet grasslands in the Sonoma Valley and the Santa Rosa Plain. Based on lack of suitable habitat and distance to aquatic resources, it is the opinion of TEP that the proposed action will have **no effect** on the Sonoma Sunshine.

White Sedge (*Carex albida*): The white sedge grows in coastal marshes and sphagnum bogs. Carex albida is a loosely tufted perennial herb in the sedge family (Cyperaceae). The stems are triangular, 1.3-2 ft (39-60 cm), erect, and longer than the leaves. The leaves are flat and 1-2 in (3-5 cm) wide with closed sheaths. The inflorescence consists of four to seven ovoid or obovoid to oblong spikelets 0.3-0.7 in (8-18 mm) long. The achenes (fruits) are three-sided when mature. The sacs (perigynia) surrounding the achenes are light green to yellow-green when mature and 0.1-0.2 in (3-4.5 mm) long. Several traits distinguish C. albida from other closely related sedges. Carex albida has inflorescences with staminate flowers above the pistillate flowers (especially on the terminal inflorescence), lateral spikelets, and leaves that are shorter than the stems and 0.1-0.2 in (3-5 mm) wide. Some individuals of *Carex lemmonii* resemble C. albida, but differ primarily in perigynia and fruit size. Based on the Based on lack of habitat and distance to aquatic resource, it is the opinion of TEP that the proposed action will have **no effect** on the White Sedge.

Summary of effects on federally threatened species:

California Red-legged Frog (*Rana draytonii*): According to the National Wildlife Federation, The California red-legged frog's back and head can range from red to brown or gray. Its back and the top of its legs are covered in small black spots and large dark blotches. Typically the frog's face has a dark mask and a light-colored stripe above the jaw that extends to the shoulder. The frog also has folds running down the side of its back, rough skin, and partially webbed toes. These frogs like slow-moving or standing deep ponds, pools, and streams. Tall vegetation, like grasses, cattails, and shrubs provide protection from predators and the sun, as these frogs cannot tolerate excessive heat. Based on the distance to an aquatic resources and lack of suitable habitat, it is the opinion of TEP that the proposed action will have **no effect** on the California Red-legged Frog.

Green Sea Turtle (*Chelonia mydas*): According to NOAA, The green sea turtle is the largest hard-shelled sea turtle. They are unique among sea turtles in that they are herbivores, eating mostly seagrasses and

algae. This diet is what gives their fat a greenish color (not their shells), which is where their name comes from. They nest in over 80 countries and live in the coastal areas of more than 140 countries. Historically, green turtles were exploited for their fat, meat and eggs, causing global population declines. Green turtles are found worldwide primarily in subtropical and temperate regions of the Atlantic, Pacific, and Indian Oceans, and in the Mediterranean Sea. In U.S. Atlantic and Gulf of Mexico waters, green turtles are found in inshore and nearshore waters from Texas to Maine, the U.S. Virgin Islands, and Puerto Rico. Based on lack of habitat and distance to aquatic resource, it is the opinion of TEP that the proposed action will have **no effect** on the Green Sea Turtle.

Northern Spotted Owl (*Strix occidentalis caurina*): According to the USFWS, the Northern Spotted Owl is found in forested areas dominated by evergreen trees. Northern spotted owls are nocturnal perch-and-pounce predators that capture prey with their claws. They primarily eat small forest mammals, like flying squirrels, woodrats, voles and mice. Based on the lack of suitable habitat and the urban nature of the project area, it is the opinion of TEP that the proposed action will have **no effect** on the Northern Spotted Owl.

Summary of effects on State listed species:

According to the California Department of Fish and Wildlife, there are one-hundred and thirty-seven (137) state endangered plant species, twenty-one (21) state threatened plant species, fifty-three (53) state endangered animal species, and forty-three (43) state listed threatened animal species. During the site inspection the action area was located in a commercia/industrial park. Portions of the action area were occupied by asphalt drives and the proposed tower compound was located in a cleared area. Based on the lack of suitable habitat found and given the current land use of the action area, it is the opinion of TEP that the proposed action will have **no effect** on state protected species.

Further, TEP also utilized the California Natural Diversity Database BIOS online portal to identify state-listed species known to occur within Santa Rosa, CA Topographic Quadrangle. According to this list, five (5) state endangered species: coho salmon (*Oncorhynchus kisutch*), Sonoma sunshine (*Blennosperma bakeri*), burkes goldfields (*Lasthenia burkei*), Clara Hunt's milk-vetch (*Astragalus claranus*), and the sebastopol meadowfoam (*Limnanthes vinculans),* two (2) state candidate endangered species: crotch bumble bee (*Bombus crotchii*) and westerns bumble bee (*Bombus occidentalis*), and one (1) state threatened species: California tiger salamander (*Ambystoma californiense*) are possibly occurring within the Santa Rosa, CA Topographic Quadrangle. During the site inspection, no occurrences of any state-listed plant or animal species were observed and the proposed action area consisted of a cleared areas located in an industrial/commercial park and an existing paved parking lot. Based on the lack of suitable habitat found within the proposed action area, and the extent of existing human disturbance in the vicinity of the proposed action area, it is the opinion of TEP that the proposed action will have **no effect** on state protected species.

Minimizing Impacts to Migratory Birds protected under the MBTA:

The following siting and construction details were implemented in an attempt to comply with the recommendations of the Memorandum of Understanding, directed by the President of the U.S. under the Executive Order 13186, for minimizing impacts to migratory birds protected under the Migratory Bird Treaty Act and the USFWS Interim Guidelines for Recommendations on Communications Tower Siting, Construction, Operation, and Decommissioning. The proposed tower is less than 200-ft AGL, monopole in design, will not utilize guy wires, and is anticipated to be an unlit structure, minimizing the impacts to migratory birds. The tower will also not be located on a mountaintop or in area with high incidence of fog. With regards to the Bald Eagle & Golden Eagle Protection Act, no occurrences were associated with the proposed action area and no active nests were observed in the vicinity of the proposed action area at the time of inspection.

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
Phone: (916) 414-6600 Fax: (916) 414-6713

In Reply Refer To: December 16, 2022
Project Code: 2023-0026089
Project Name: CANC-SROSA01

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)

(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see https://www.fws.gov/birds/policies-and-regulations.php.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
(916) 414-6600

Project Summary

Project Code: 2023-0026089
Project Name: CANC-SROSA01
Project Type: Communication Tower New Construction
Project Description: Proposed communications tower structure construction
Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@38.417666999999994,-122.74828903055567,14z

Counties: Sonoma County, California

Endangered Species Act Species

There is a total of 12 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Birds

NAME	STATUS
Northern Spotted Owl *Strix occidentalis caurina* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/1123	Threatened

Reptiles

NAME	STATUS
Green Sea Turtle *Chelonia mydas* Population: East Pacific DPS No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6199	Threatened

Amphibians

NAME	STATUS
California Red-legged Frog *Rana draytonii* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2891	Threatened
California Tiger Salamander *Ambystoma californiense* Population: U.S.A. (CA - Sonoma County) There is **final** critical habitat for this species. Your location overlaps the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2076	Endangered

Insects

NAME	STATUS
Monarch Butterfly *Danaus plexippus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

Crustaceans

NAME	STATUS
California Freshwater Shrimp *Syncaris pacifica* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/7903	Endangered

Flowering Plants

NAME	STATUS
Burke's Goldfields *Lasthenia burkei* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4338	Endangered
Clara Hunt's Milk-vetch *Astragalus clarianus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3300	Endangered
Sebastopol Meadowfoam *Limnanthes vinculans* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/404	Endangered
Showy Indian Clover *Trifolium amoenum* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6459	Endangered
Sonoma Sunshine *Blennosperma bakeri* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1260	Endangered
White Sedge *Carex albida* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3063	Endangered

Critical habitats

There is 1 critical habitat wholly or partially within your project area under this office's jurisdiction.

NAME	STATUS
California Tiger Salamander *Ambystoma californiense* https://ecos.fws.gov/ecp/species/2076#crithab	Final

IPaC User Contact Information

Agency: Tower Engineering Professional
Name: Tucker Pridgen
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City: Raleigh
State: NC
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Element_Type	Scientific_Name	Common_Name	Element_Code	Federal_Status	State_Status	CDFW_Status	CA_Rare_Plant_Rank	Quad_Code	Quad_Name	Data_Status	Taxonomic_So
Animals - Amphibians	Ambystoma californiense pop. 3	California tiger salamander - Sonoma County DPS	AAAAA01183	Endangered	Threatened	WL	-	3812246	SANTA ROSA	Mapped and Unprocessed	Animals - Amphibians - Ambystomatidae Ambystoma californiense po 3
Animals - Amphibians	Dicamptodon ensatus	California giant salamander	AAAAH01020	None	None	SSC	-	3812246	SANTA ROSA	Mapped and Unprocessed	Animals - Amphibians - Dicamptodontid - Dicamptodon ensatus
Animals - Amphibians	Rana boylii pop. 1	foothill yellow-legged frog - north coast DPS	AAABH01051	None	None	SSC	-	3812246	SANTA ROSA	Mapped	Animals - Amphibians - Ranidae - Rana boylii pop. 1
Animals - Amphibians	Rana draytonii	California red-legged frog	AAABH01022	Threatened	None	SSC	-	3812246	SANTA ROSA	Mapped and Unprocessed	Animals - Amphibians - Ranidae - Rana draytonii
Animals - Amphibians	Taricha torosa	Coast Range newt	AAAAF02032	None	None	SSC	-	3812246	SANTA ROSA	Unprocessed	Animals - Amphibians - Salamandridae - Taricha torosa
Animals - Birds	Accipiter cooperii	Coopers hawk	ABNKC12040	None	None	WL	-	3812246	SANTA ROSA	Mapped and Unprocessed	Animals - Birds - Accipitridae - Accipiter cooper
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812246	SANTA ROSA	Mapped	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3812246	SANTA ROSA	Unprocessed	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Egretta thula	snowy egret	ABNGA06030	None	None	-	-	3812246	SANTA ROSA	Unprocessed	Animals - Birds - Ardeidae - Egretta thula
Animals - Birds	Nycticorax nycticorax	black-crowned night heron	ABNGA11010	None	None	-	-	3812246	SANTA ROSA	Unprocessed	Animals - Birds - Ardeidae - Nycticorax nycticorax
Animals - Birds	Falco peregrinus anatum	American peregrine falcon	ABNKD06071	Delisted	Delisted	FP	-	3812246	SANTA ROSA	Unprocessed	Animals - Birds - Falconidae - Falco peregrinus anatum
Animals - Birds	Coturnicops noveboracensis	yellow rail	ABNME01010	None	None	SSC	-	3812246	SANTA ROSA	Mapped	Animals - Birds - Rallidae - Coturnicops noveboracensis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812246	SANTA ROSA	Mapped and Unprocessed	Animals - Crustaceans - Chirocephalidae Linderiella occidentalis
Animals - Fish	Cottus gulosus	riffle sculpin	AFC4E02140	None	None	SSC	-	3812246	SANTA ROSA	Unprocessed	Animals - Fish - Cottidae - Cottus gulosus

Animals - Fish	Hesperoleucus venustus navarroensis	northern coastal roach	AFCJB19031	None	None	SSC	-	3812246	SANTA ROSA	Unprocessed	Animals - Fish - Cyprinidae - Hesperoleucus venustus navarroensis
Animals - Fish	Hysterocarpus traskii pomo	Russian River tule perch	AFCQK02011	None	None	SSC	-	3812246	SANTA ROSA	Unprocessed	Animals - Fish - Embiotocidae - Hysterocarpus traskii pomo
Animals - Fish	Entosphenus tridentatus	Pacific lamprey	AFBAA02100	None	None	SSC	-	3812246	SANTA ROSA	Unprocessed	Animals - Fish - Petromyzontidae - Entosphenus tridentatus
Animals - Fish	Oncorhynchus kisutch pop. 4	coho salmon - central California coast ESU	AFCHA02034	Endangered	Endangered	-	-	3812246	SANTA ROSA	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus kisutch pop. 4
Animals - Fish	Oncorhynchus mykiss irideus pop. 8	steelhead - central California coast DPS	AFCHA0209G	Threatened	None	-	-	3812246	SANTA ROSA	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus pop. 8
Animals - Fish	Oncorhynchus tshawytscha pop. 17	chinook salmon - California coastal ESU	AFCHA0205S	Threatened	None	-	-	3812246	SANTA ROSA	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha pop 17
Animals - Insects	Andrena blennospermatis	Blennosperma vernal pool andrenid bee	IIHYM35030	None	None	-	-	3812246	SANTA ROSA	Mapped	Animals - Insect - Andrenidae - Andrena blennospermatis
Animals - Insects	Bombus caliginosus	obscure bumble bee	IIHYM24380	None	None	-	-	3812246	SANTA ROSA	Mapped and Unprocessed	Animals - Insect - Apidae - Bombus caliginosus
Animals - Insects	Bombus crotchii	Crotch bumble bee	IIHYM24480	None	Candidate Endangered	-	-	3812246	SANTA ROSA	Unprocessed	Animals - Insect - Apidae - Bombus crotchii
Animals - Insects	Bombus occidentalis	western bumble bee	IIHYM24252	None	Candidate Endangered	-	-	3812246	SANTA ROSA	Mapped and Unprocessed	Animals - Insect - Apidae - Bombus occidentalis
Animals - Mammals	Neotoma fuscipes annectens	San Francisco dusky-footed woodrat	AMAFF08082	None	None	SSC	-	3812246	SANTA ROSA	Unprocessed	Animals - Mammals - Cricetidae - Neotoma fuscipes annectens
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3812246	SANTA ROSA	Unprocessed	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Antrozous pallidus	pallid bat	AMACC10010	None	None	SSC	-	3812246	SANTA ROSA	Unprocessed	Animals - Mammals - Vespertilionidae Antrozous pallidus

Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812246	SANTA ROSA	Mapped and Unprocessed	Animals - Reptil - Emydidae - Emys marmorat
Community - Terrestrial	Valley Needlegrass Grassland	Valley Needlegrass Grassland	CTT42110CA	None	None	-	-	3812246	SANTA ROSA	Mapped	Community - Terrestrial - Valle Needlegrass Grassland
Plants - Bryophytes	Triquetrella californica	coastal triquetrella	NBMUS7S010	None	None	-	1B.2	3812246	SANTA ROSA	Mapped	Plants - Bryophytes - Pottiaceae - Triquetrella californica
Plants - Vascular	Lomatium repostum	Napa lomatium	PDAPI1B1M0	None	None	-	1B.2	3812246	SANTA ROSA	Unprocessed	Plants - Vascula - Apiaceae - Lomatium repostum
Plants - Vascular	Balsamorhiza macrolepis	big-scale balsamroot	PDAST11061	None	None	-	1B.2	3812246	SANTA ROSA	Mapped	Plants - Vascula - Asteraceae - Balsamorhiza macrolepis
Plants - Vascular	Blennosperma bakeri	Sonoma sunshine	PDAST1A010	Endangered	Endangered	-	1B.1	3812246	SANTA ROSA	Mapped and Unprocessed	Plants - Vascula - Asteraceae - Blennosperma bakeri
Plants - Vascular	Hemizonia congesta ssp. congesta	congested-headed hayfield tarplant	PDAST4R065	None	None	-	1B.2	3812246	SANTA ROSA	Mapped	Plants - Vascula - Asteraceae - Hemizonia congesta ssp. congesta
Plants - Vascular	Lasthenia burkei	Burkes goldfields	PDAST5L010	Endangered	Endangered	-	1B.1	3812246	SANTA ROSA	Mapped	Plants - Vascula - Asteraceae - Lasthenia burke
Plants - Vascular	Layia septentrionalis	Colusa layia	PDAST5N0F0	None	None	-	1B.2	3812246	SANTA ROSA	Mapped	Plants - Vascula - Asteraceae - Layia septentrionalis
Plants - Vascular	Amsinckia lunaris	bent-flowered fiddleneck	PDBOR01070	None	None	-	1B.2	3812246	SANTA ROSA	Mapped	Plants - Vascula - Boraginaceae Amsinckia lunar
Plants - Vascular	Arctostaphylos stanfordiana ssp. decumbens	Rincon Ridge manzanita	PDERI041G4	None	None	-	1B.1	3812246	SANTA ROSA	Mapped and Unprocessed	Plants - Vascula - Ericaceae - Arctostaphylos stanfordiana ssp decumbens
Plants - Vascular	Amorpha californica var. napensis	Napa false indigo	PDFAB08012	None	None	-	1B.2	3812246	SANTA ROSA	Mapped and Unprocessed	Plants - Vascula - Fabaceae - Amorpha californica var. napensis
Plants - Vascular	Astragalus claranus	Clara Hunts milk-vetch	PDFAB0F240	Endangered	Endangered	-	1B.1	3812246	SANTA ROSA	Mapped and Unprocessed	Plants - Vascula - Fabaceae - Astragalus claranus
Plants - Vascular	Trifolium amoenum	two-fork clover	PDFAB40040	Endangered	None	-	1B.1	3812246	SANTA ROSA	Mapped	Plants - Vascula - Fabaceae - Trifolium amoenum

Plants - Vascular	Trifolium buckwestiorum	Santa Cruz clover	PDFAB402W0	None	None	-	1B.1	3812246	SANTA ROSA	Mapped	Plants - Vascula - Fabaceae - Trifolium buckwestiorum
Plants - Vascular	Trifolium hydrophilum	saline clover	PDFAB400R5	None	None	-	1B.2	3812246	SANTA ROSA	Mapped	Plants - Vascula - Fabaceae - Trifolium hydrophilum
Plants - Vascular	Monardella viridis	green monardella	PDLAM180Q2	None	None	-	4.3	3812246	SANTA ROSA	Unprocessed	Plants - Vascula - Lamiaceae - Monardella virid
Plants - Vascular	Calochortus uniflorus	pink star-tulip	PMLIL0D1F0	None	None	-	4.2	3812246	SANTA ROSA	Unprocessed	Plants - Vascula - Liliaceae - Calochortus uniflorus
Plants - Vascular	Fritillaria liliacea	fragrant fritillary	PMLIL0V0C0	None	None	-	1B.2	3812246	SANTA ROSA	Mapped	Plants - Vascula - Liliaceae - Fritillaria liliacea
Plants - Vascular	Limnanthes vinculans	Sebastopol meadowfoam	PDLIM02090	Endangered	Endangered	-	1B.1	3812246	SANTA ROSA	Mapped	Plants - Vascula - Limnanthaceae Limnanthes vinculans
Plants - Vascular	Leptosiphon aureus	bristly leptosiphon	PDPLM09010	None	None	-	4.2	3812246	SANTA ROSA	Unprocessed	Plants - Vascula - Polemoniacea - Leptosiphon aureus
Plants - Vascular	Leptosiphon jepsonii	Jepsons leptosiphon	PDPLM09140	None	None	-	1B.2	3812246	SANTA ROSA	Mapped and Unprocessed	Plants - Vascula - Polemoniacea - Leptosiphon jepsonii
Plants - Vascular	Navarretia leucocephala ssp. bakeri	Bakers navarretia	PDPLM0C0E1	None	None	-	1B.1	3812246	SANTA ROSA	Mapped	Plants - Vascula - Polemoniacea - Navarretia leucocephala ss bakeri
Plants - Vascular	Ranunculus lobbii	Lobbs aquatic buttercup	PDRAN0L1J0	None	None	-	4.2	3812246	SANTA ROSA	Unprocessed	Plants - Vascula - Ranunculacea - Ranunculus lobbii
Plants - Vascular	Ceanothus confusus	Rincon Ridge ceanothus	PDRHA04220	None	None	-	1B.1	3812246	SANTA ROSA	Mapped and Unprocessed	Plants - Vascula - Rhamnaceae - Ceanothus confusus
Plants - Vascular	Ceanothus divergens	Calistoga ceanothus	PDRHA04240	None	None	-	1B.2	3812246	SANTA ROSA	Mapped	Plants - Vascula - Rhamnaceae - Ceanothus divergens
Plants - Vascular	Ceanothus purpureus	holly-leaved ceanothus	PDRHA04160	None	None	-	1B.2	3812246	SANTA ROSA	Mapped	Plants - Vascula - Rhamnaceae - Ceanothus purpureus
Plants - Vascular	Ceanothus sonomensis	Sonoma ceanothus	PDRHA04420	None	None	-	1B.2	3812246	SANTA ROSA	Mapped	Plants - Vascula - Rhamnaceae - Ceanothus sonomensis
Plants - Vascular	Brodiaea leptandra	narrow-anthered brodiaea	PMLIL0C022	None	None	-	1B.2	3812246	SANTA ROSA	Mapped	Plants - Vascula - Themidaceae -

											Brodiaea leptandra

AT&T

FIRSTNET/AT&T SITE ID:	**CCU02094**	**PSTC SITE #:**	**CANC-SROSA01**
FIRSTNET/AT&T SITE NAME:	**SW SANTA ROSA**	**SITE ADDRESS:**	**2715 GIFFEN AVE SANTA ROSA, CA 95404**
FA LOCATION CODE:	**10547968**	**COUNTY:**	**SONOMA**
USID:	**TBD**	**SITE TYPE:**	**MONOPINE**
		TOWER HEIGHT:	**85'-0"**

SITE INFORMATION

PSTC SITE NAME:	CANC-CROSA01
SITE ADDRESS:	2715 GIFFEN AVE SANTA ROSA, CA 95404
COUNTY:	SONOMA
MAP/PARCEL #:	010-450-008
AREA OF CONSTRUCTION:	2,640 SQ FT
LATITUDE:	N 38° 25' 3.04" (38.417510°)
LONGITUDE:	W 122° 45' 2.20" (-122.750614°)
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	112'±
CURRENT ZONING:	COMMERCIAL
JURISDICTION:	SONOMA COUNTY
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	VB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	GIFFEN AVENUE PROPERTY LLC 1206 4TH ST SANTA ROSA, CA 95404
TOWER OWNER:	PUBLIC SAFETY TOWERS, LLC 1903 WRIGHT PLACE, SUITE 140 CARLSBAD, CA 92008
CARRIER/APPLICANT:	AT&T 5001 EXECUTIVE PKWY SAN RAMON, CA 94583
ELECTRIC PROVIDER:	PG&E
TELCO PROVIDER:	TBD

PROJECT TEAM

PUBLIC SAFETY TOWERS, LLC CONTACT:	1903 WRIGHT PLACE, SUITE 140 CARLSBAD, CA 92008 TANYA AVENA T.AVENA@PSTCTOWERS.COM (661) 755-1471
TEP PROJECT TEAM:	TOWER ENGINEERING PROFESSIONALS 4710 E ELWOOD ST, STE 9 PHOENIX, AZ 85040
SITE ACQUISITION CONTACT:	KARLA RICHARDS KMRICHARDS@TEPGROUP.NET (602) 418-6050
CIVIL ENGINEER:	DAN REIDENBACH, PE DAREIDENBACH@TEPGROUP.NET (480) 750-9062
ELECTRICAL ENGINEER:	MARK QUAKENBUSH, PE MQUAKENBUSH@TEPGROUP.NET (919) 661-6351
AT&T PROJECT TEAM:	
RF ENGINEER:	JAKE BALUYUT JB7714@ATT.COM

DRAWING INDEX

SHEET #	SHEET DESCRIPTION	REV
T-1	TITLE SHEET	A
GN-1	GENERAL NOTES	A
C-1.1	SITE PLAN	A
C-1.2	COMPOUND LAYOUT	A
C-2.1	FINAL SOUTH ELEVATION	A
C-2.2	FINAL NORTH ELEVATION	A
C-3	FINAL ANTENNA LAYOUT & SCHEDULE	A

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 24x36. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

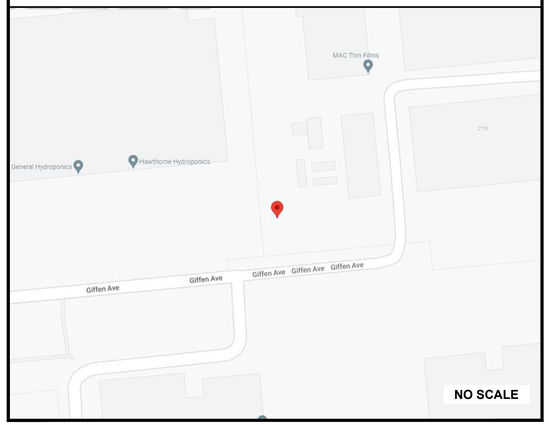
PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY IN THE AREA FOR EMERGENCY SERVICE AND WIRELESS CUSTOMERS.

TOWER SCOPE OF WORK
- INSTALL 85'-0" MONOPINE TOWER
- INSTALL (15) ANTENNAS ON (12) MOUNT PIPES
- INSTALL (18) RADIOS
- INSTALL (4) DC9 FIBER SQUIDS
- INSTALL (12) DC POWER TRUNKS
- INSTALL (4) FIBER TRUNKS
- INSTALL (3) SECTOR MOUNTS

GROUND SCOPE OF WORK
- INSTALL 25'-0"x100'-0" CHAIN LINK FENCED COMPOUND
- INSTALL GRAVEL DRIVEWAY
- INSTALL (1) 3-GANG METER BANK
- INSTALL (1) EQUIPMENT PLATFORM
- INSTALL (1) WALK-UP-CABINET (WUC)
- INSTALL (1) DIESEL GENERATOR
- INSTALL (1) ICE BRIDGE

LOCATION MAP



APPROVALS

AT&T (RF): _____
DATE: _____

AT&T OPERATIONS: _____
DATE: _____

SITE AQUISITION: _____
DATE: _____

CONSTRUCTION MANAGER: _____
DATE: _____

PROPERTY OWNER: _____
DATE: _____

ZONING: _____
DATE: _____

PROJECT MANAGER: _____
DATE: _____

DIRECTIONS FROM LOS ANGELES INTERNATIONAL AIRPORT:
HEAD WEST ON W CENTURY BLVD TOWARD VICKSBURG AVE. TURN RIGHT ONTO S SEPULVEDA BLVD. KEEP RIGHT TO STAY ON S SEPULVEDA BLVD. TURN RIGHT ONTO HOWARD HUGHES PKWY. MERGE WITH I-405 N. THE RIGHT 2 LANES TO TAKE THE RAMP ONTO I-405 N. MERGE WITH I-5 N. KEEP LEFT AT THE Y JUNCTION TO STAY ON I-5 N. KEEP LEFT TO STAY ON I-5 N. KEEP RIGHT AT THE Y JUNCTION TO STAY ON I-5 N, FOLLOW SIGNS FOR SAN FRANCISCO/SACRAMENTO. CONTINUE ONTO I-5 N. KEEP LEFT AT THE Y JUNCTION TO CONTINUE ON I-580 W, FOLLOW SIGNS FOR TRACY/SAN FRANCISCO. KEEP RIGHT AT THE Y JUNCTION TO STAY ON I-580 W, FOLLOW SIGNS FOR OAKLAND/SAN FRANCISCO. TAKE THE EXIT ONTO I-580 W/I-80 E TOWARD BERKELEY/SACRAMENTO. USE THE RIGHT 2 LANES TO TAKE EXIT 13B FOR I-580 TOWARD SAN RAFAEL/POINT RICHMOND. CONTINUE ONTO I-580 W. MERGE WITH US-101 N. TAKE EXIT 487 TOWARD YOLANDA AVE/HEARN AVE. USE THE LEFT LANE TO TURN LEFT ONTO SANTA ROSA AVE. USE THE LEFT 2 LANES TO TURN LEFT ONTO HEARN AVE. TURN RIGHT ONTO STONY POINT RD. TURN LEFT ONTO NORTHPOINT PKWY. TURN RIGHT ONTO LOMBARDI LN. TURN LEFT.

APPLICABLE CODES/REFERENCE DOCUMENTS

ALL WORK SHALL BE PERFORMED AND MATERIALS 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:

CODE TYPE	CODE
BUILDING	2019 CBC (2018 IBC)
MECHANICAL	2019 CMC (2018 UMC)
ELECTRICAL	2019 CEC (2017 NEC)

REFERENCE DOCUMENTS:

RFDS VERSION: PENDING
DATED: PENDING

811 Know what's below. Call before you dig.

CALL CALIFORNIA ONE CALL
(800) 227-2600
CALL 3 WORKING DAYS
BEFORE YOU DIG!

PUBLIC SAFETY TOWERS COMPANY
1903 WRIGHT PLACE, SUITE 140
CARLSBAD, CA 92008

AT&T
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

TOWER ENGINEERING PROFESSIONALS
4710 E ELWOOD ST, STE 9
PHOENIX, AZ 85040
OFFICE: (480) 285-0036
www.tepgroup.net

AT&T/FIRSTNET SITE ID:
CCU02094

PSTC #: CANC-SROSA01
SW SANTA ROSA
CORPORATE CENTER PKWY
& ROSELAND

2715 GIFFEN AVE
SANTA ROSA, CA 95404
(SONOMA COUNTY)

PROPOSED 85'-0"
MONOPOLE TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
A	10-03-22	KRS	ZONING	HMM

SEAL:

ZONING
DO NOT USE FOR CONSTRUCTION

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.

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:	REVISION:
T-1	A

TEP #: 314201.336187

PROJECT NOTES:

1. ALL REFERENCES MADE TO OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED PUBLIC SAFETY TOWERS, LLC OR ITS DESIGNATED REPRESENTATIVE.

2. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN THE PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING TO HAVE SUFFICIENT EXPERIENCE AND ABILITY, IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE THE TOWER IS LOCATED.

3. THE STRUCTURE SHALL BE DESIGNED IN ACCORDANCE WITH ANSI/TIA-222-H AND CONFORM TO THE REQUIREMENTS OF THE 2019 CALIFORNIA BUILDING CODE.

4. WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE 2019 CALIFORNIA BUILDING CODE.

5. UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.

6. ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTION SHALL BE FOLLOWED EXACTLY AND SHALL SUPERSEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.

7. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.

8. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OF CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATION. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTIONS OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE PROCEDURES.

9. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK. RENTAL CHARGES, SAFETY, PROTECTION, AND MAINTENANCE OF RENTED EQUIPMENT SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

11. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE OWNER PROJECT MANAGER. THIS INCLUDES ALL SPECIFIC MILITARY INSTALLATION INSTRUCTIONS INCLUDING STAFF ACCESS AND GATE SPECIFIC INSTRUCTIONS.

12. BILL OF MATERIALS AND PART NUMBERS LISTED ON CONSTRUCTION DRAWINGS ARE INTENDED TO AID CONTRACTOR/OWNER. CONTRACTOR/OWNER SHALL VERIFY PARTS AND QUANTITIES WITH MANUFACTURER PRIOR TO BIDDING AND/OR ORDERING MATERIALS.

13. ALL PERMITS THAT MUST BE OBTAINED ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.

14. 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) ENGINEER AS WELL AS ANY REQUIRED NOTICES SPECIFIC TO THE MILITARY INSTITUTION.

15. THE CONTRACTOR SHALL REWORK (DRY, SCARIFY, ETC.) ALL MATERIAL NOT SUITABLE FOR SUBGRADE IN ITS PRESENT STATE. AFTER REWORKING, IF THE MATERIAL REMAINS UNSUITABLE, THE CONTRACTOR SHALL UNDERCUT THIS MATERIAL AND REPLACE WITH APPROVED MATERIAL. ALL SUBGRADES SHALL BE PROOFROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO PAVING. ANY SOFT MATERIALS HALL BE REWORKED OR REPLACED.

16. THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL PIPES, DITCHES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO MAINTAIN DRAINAGE STRUCTURE IN OPERABLE CONDITION.

17. THE OWNER OR OWNERS REPRESENTATIVE SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.

18. ANY BUILDINGS ON THIS SITE ARE INTENDED TO SHELTER EQUIPMENT WHICH WILL ONLY BE PERIODICALLY MAINTAINED AND ARE NOT INTENDED FOR HUMAN OCCUPANCY.

19. TEMPORARY FACILITIES FOR PROTECTION OF TOOLS AND EQUIPMENT SHALL CONFORM TO LOCAL REGULATIONS AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

20. THE CONTRACTOR AND ITS SUBCONTRACTORS SHALL CARRY LIABILITY INSURANCE IN THE AMOUNTS AND FORM IN ACCORDANCE WITH OWNER SPECIFICATIONS. CERTIFICATES DEMONSTRATING PROOF OF COVERAGE SHALL BE PROVIDED TO OWNER PRIOR TO THE START OF THE WORK ON THE PROJECT.

21. THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITY SERVICES TO VERIFY LOCATIONS OF EXISTING UTILITIES AND REQUIREMENTS FOR NEW UTILITY CONNECTIONS PRIOR TO EXCAVATING.

22. THE CONTRACTOR SHALL MAINTAIN THE JOB CLEAR OF TRASH AND DEBRIS. ALL WASTE MATERIALS SHALL BE REMOVED FROM THE SITE PRIOR TO THE SUBSTANTIAL COMPLETION AND PRIOR TO FINAL ACCEPTANCE. THE CONTRACTOR SHALL FURNISH ONE 55 GALLON BARREL OR EQUIVALENT, AND TRASH BAGS, AND SHALL REMOVE TRASH, DEBRIS, ETC., ON A DAILY BASIS.

23. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL CONDITIONS PRIOR TO SUBMITTING THE PROPOSAL. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS WITH THOSE AT THE SITE. ANY VARIATION WHICH REQUIRES PHYSICAL CHANGE SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER PROJECT ENGINEER FOR FACILITIES/CONSTRUCTION.

24. THE CONTRACTOR SHALL GUARANTEE THE WORK PERFORMED ON THE PROJECT BY THE CONTRACTOR AND ANY OR ALL OF THE SUBCONTRACTORS WHO PERFORMED WORK FOR THE CONTRACTOR ON THIS PROJECT. THE GUARANTEE SHALL BE FOR A FULL YEAR FOLLOWING ISSUANCE OF THE FINAL PAYMENT OF RETAINAGE. ALL MATERIALS AND WORKMANSHIP SHALL BE WARRANTED FOR ONE YEAR FROM ACCEPTANCE DATE.

25. THE CONTRACTOR SHALL PROVIDE DAILY UPDATES IN THE FORM OF WRITTEN NOTIFICATION VIA EMAIL OR APP PHOTOS TO THE BOINGO CONSTRUCTION MANAGER.

UTILITY NOTES:

1. APPLY FOR THE UTILITY SERVICE (ELECTRIC) NO LATER THAN THE NEXT BUSINESS DAY FOLLOWING AWARD OF CONTRACT. COORDINATE WITH THE ELECTRIC UTILITY COMPANY FOR EXACT TRANSFORMER LOCATION, METERING REQUIREMENTS, AND THE SERVICE ROUTING. COORDINATE WITH THE TELEPHONE UTILITY COMPANY FOR EXACT TELEPHONE REQUIREMENTS AND ROUTING OF SERVICE.

2. ALL UTILITY RELATED WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE UTILITY REQUIREMENTS. FIELD TO VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

3. THE CONTRACTOR SHALL CONTACT UTILITIES AND LOCATOR SERVICE A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION.

4. CONTRACTOR SHALL PROVIDE TRENCHING AND CONDUITS AS SHOWN OR AS REQUIRED BY LOCAL UTILITY.

5. NO PENETRATIONS TO THE TOWER FOUNDATION OF ANY KIND.

PUBLICSAFETYTOWERS COMPANY
1903 WRIGHT PLACE, SUITE 140
CARLSBAD, CA 92008

AT&T
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

TOWER ENGINEERING PROFESSIONALS
4710 E ELWOOD ST, STE 9
PHOENIX, AZ 85040
OFFICE: (480) 285-0036
www.tepgroup.net

AT&T/FIRSTNET SITE ID: CCU02094

PSTC #: CANC-SROSA01
SW SANTA ROSA CORPORATE CENTER PKWY & ROSELAND

2715 GIFFEN AVE
SANTA ROSA, CA 95404
(SONOMA COUNTY)

PROPOSED 85'-0" MONOPOLE TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
A	10-03-22	KRS	ZONING	HMM

SEAL:

ZONING
DO NOT USE FOR CONSTRUCTION

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SHEET TITLE:

GENERAL NOTES

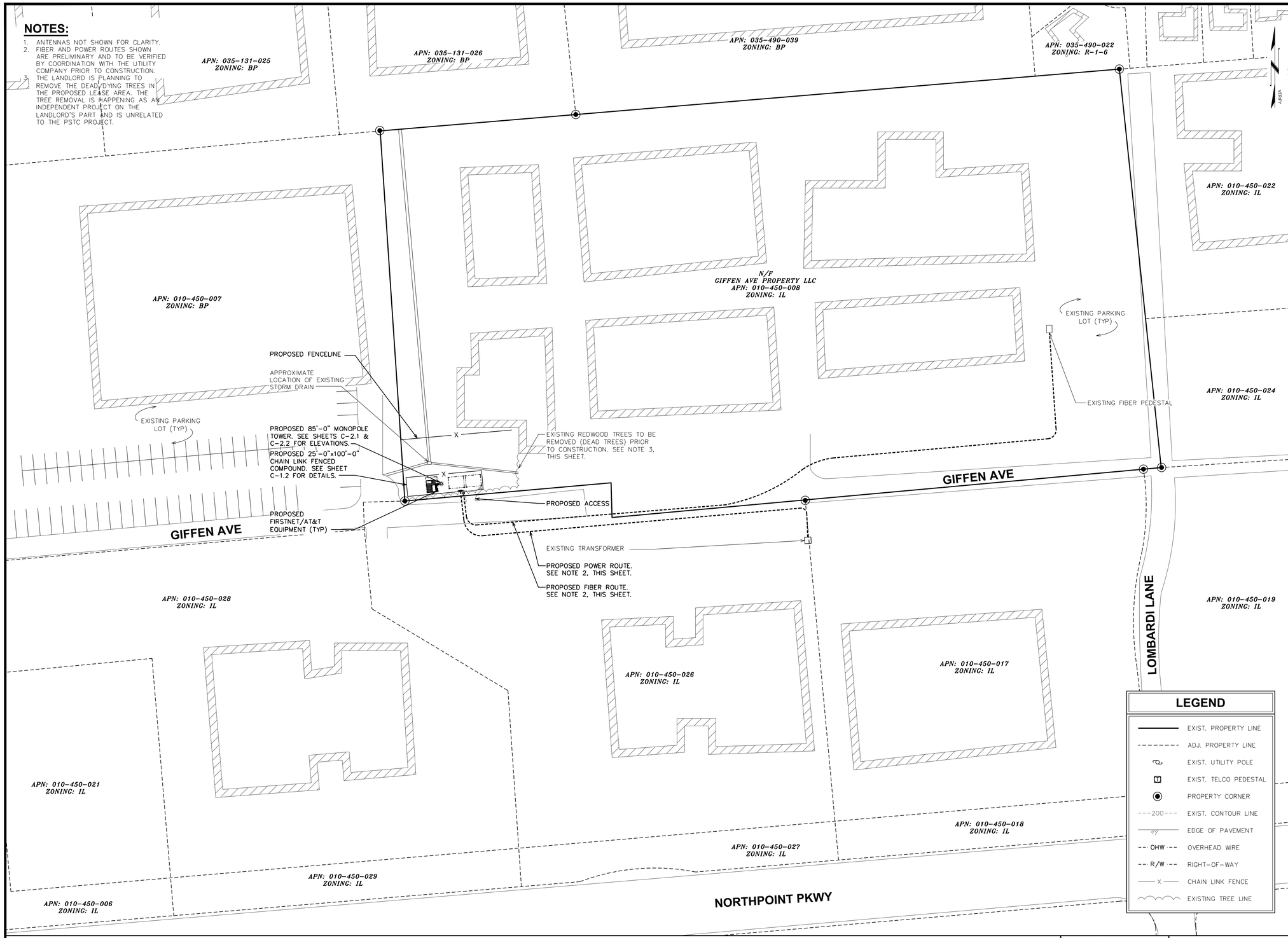
SHEET NUMBER: GN-1

REVISION: A

TEP #: 314201.336187

NOTES:

1. ANTENNAS NOT SHOWN FOR CLARITY.
2. FIBER AND POWER ROUTES SHOWN ARE PRELIMINARY AND TO BE VERIFIED BY COORDINATION WITH THE UTILITY COMPANY PRIOR TO CONSTRUCTION.
3. THE LANDLORD IS PLANNING TO REMOVE THE DEAD/DYING TREES IN THE PROPOSED LEASE AREA. THE TREE REMOVAL IS HAPPENING AS AN INDEPENDENT PROJECT ON THE LANDLORD'S PART AND IS UNRELATED TO THE PSTC PROJECT.



1 **EXISTING OVERALL SITE PLAN**

SCALE: 1" = 60' (24x36)
SCALE: 1" = 120' (11x17)

0 60 120
SCALE IN FEET

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SHEET TITLE:

SITE PLAN

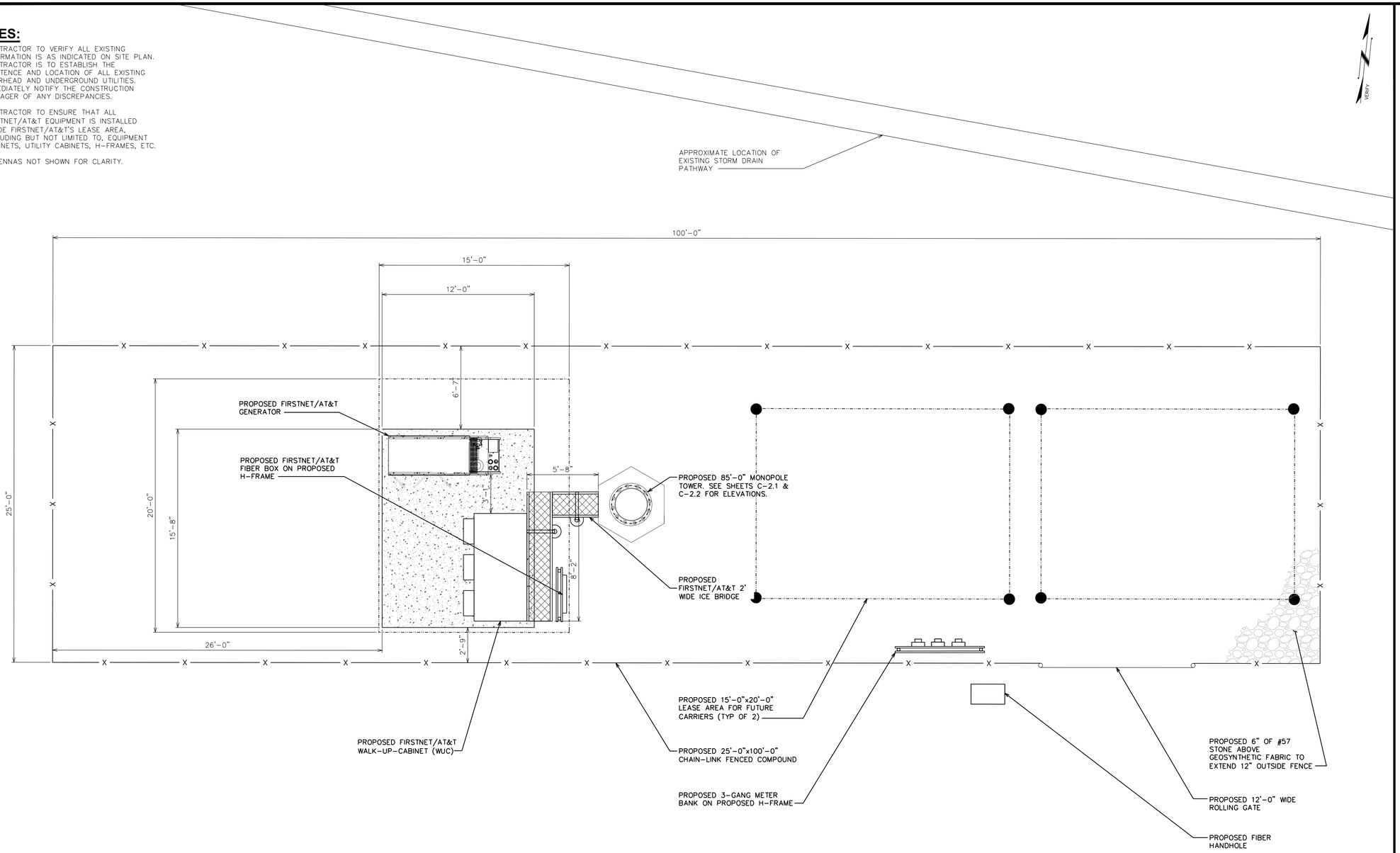
SHEET NUMBER: C-1.1

REVISION: A

TEP #: 314201.336187

NOTES:

1. CONTRACTOR TO VERIFY ALL EXISTING INFORMATION IS AS INDICATED ON SITE PLAN. CONTRACTOR IS TO ESTABLISH THE EXISTENCE AND LOCATION OF ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES. IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES.
2. CONTRACTOR TO ENSURE THAT ALL FIRSTNET/AT&T EQUIPMENT IS INSTALLED INSIDE FIRSTNET/AT&T'S LEASE AREA, INCLUDING BUT NOT LIMITED TO, EQUIPMENT CABINETS, UTILITY CABINETS, H-FRAMES, ETC.
3. ANTENNAS NOT SHOWN FOR CLARITY.



1 **FINAL COMPOUND DETAIL**

SCALE: ¼" = 1'-0" (24x36)
SCALE: ⅛" = 1'-0" (11x17)

0 4 8
SCALE IN FEET

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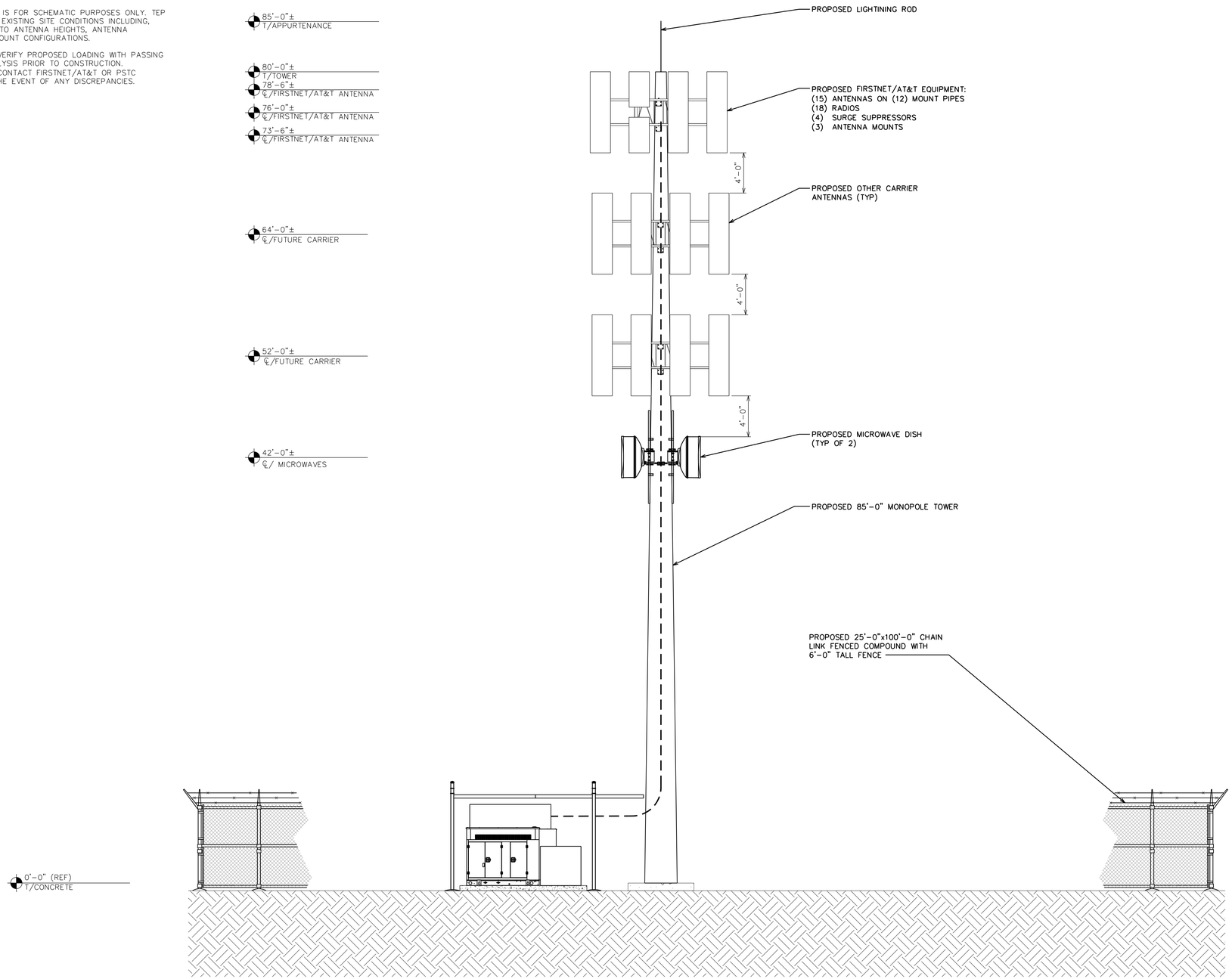
SHEET TITLE:
COMPOUND LAYOUT

SHEET NUMBER: C-1.2
REVISION: A

TEP #: 314201.336187

NOTES:

1. PROPOSED CABLES TO BE ROUTED PER SPECIFICATIONS OF PASSING STRUCTURAL ANALYSIS.
2. TOWER ELEVATION IS FOR SCHEMATIC PURPOSES ONLY. TEP DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO ANTENNA HEIGHTS, ANTENNA AZIMUTHS, AND MOUNT CONFIGURATIONS.
3. CONTRACTOR TO VERIFY PROPOSED LOADING WITH PASSING STRUCTURAL ANALYSIS PRIOR TO CONSTRUCTION. CONTRACTOR TO CONTACT FIRSTNET/AT&T OR PSTC IMMEDIATELY IN THE EVENT OF ANY DISCREPANCIES.



1 **FINAL SOUTH ELEVATION**

SCALE: 3/16" = 1'-0" (24x36)
SCALE: 3/32" = 1'-0" (11x17)

0 4 8
SCALE IN FEET

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SHEET TITLE:
FINAL SOUTH ELEVATION

SHEET NUMBER: C-2.1
REVISION: A

TEP #: 314201.336187

NOTES:

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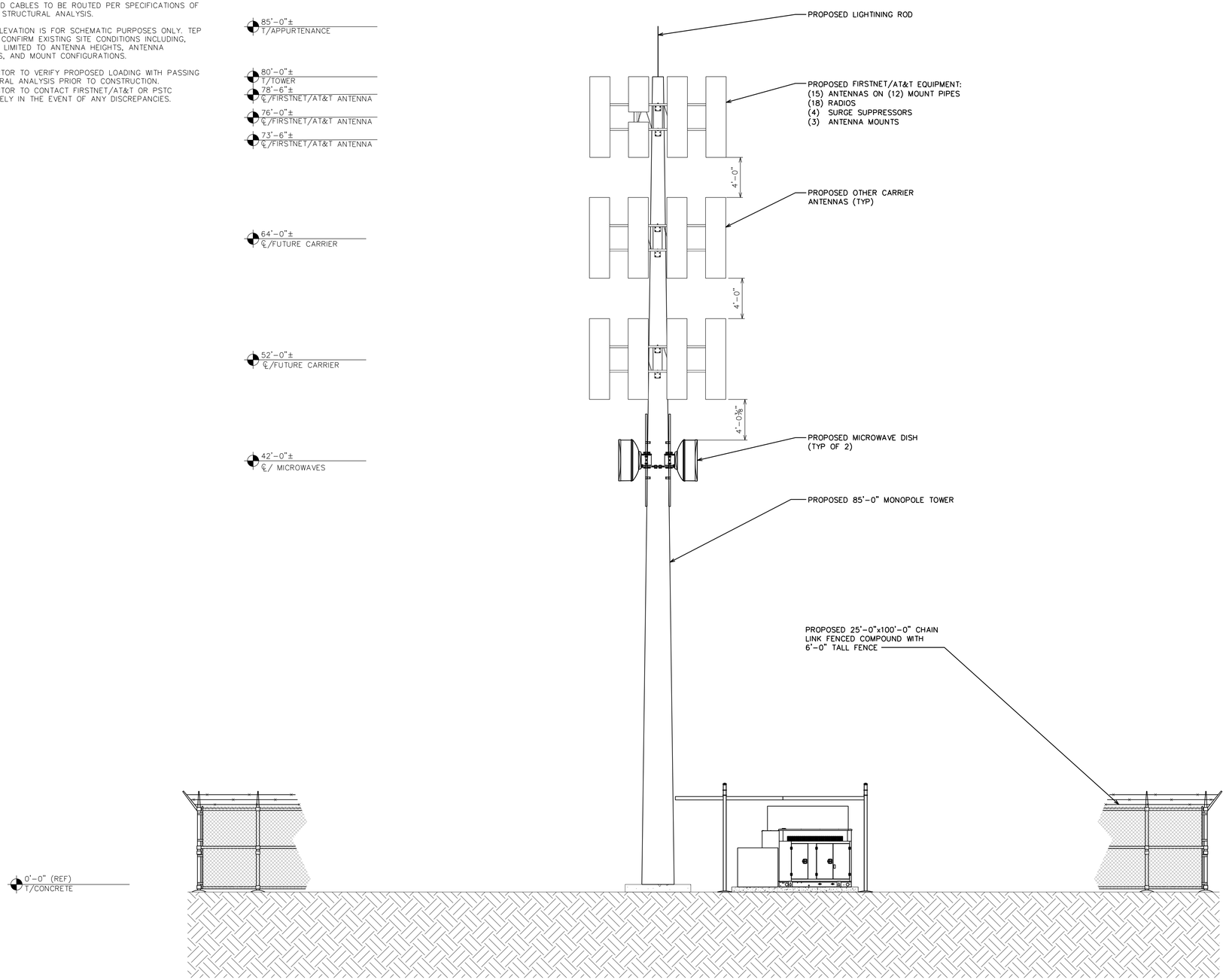

1 **FINAL NORTH ELEVATION**

SCALE: 3/16" = 1'-0" (24x36)
SCALE: 3/32" = 1'-0" (11x17)

0 4 8
SCALE IN FEET

PUBLICSAFETYTOWERS COMPANY
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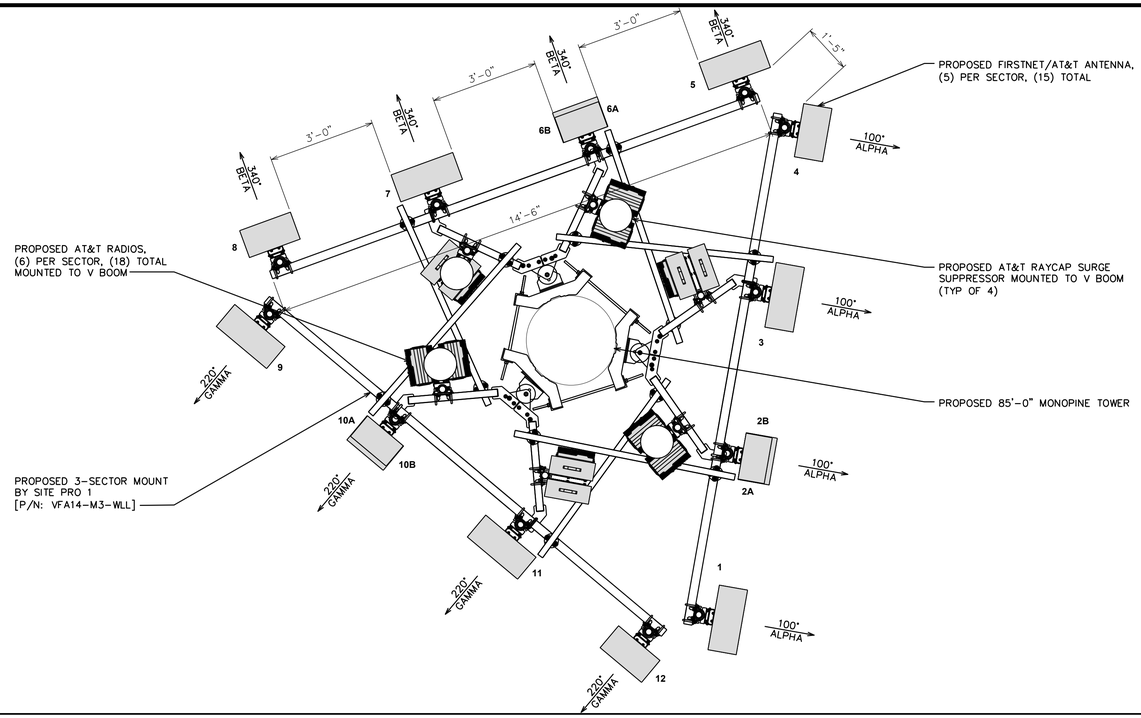
SHEET TITLE:
FINAL NORTH ELEVATION

SHEET NUMBER: C-2.2
REVISION: A

TEP #: 314201.336187

NOTE:
TEP DID NOT ANALYZE THE PROPOSED MOUNT SHOWN.



1 FINAL ANTENNA LAYOUT

SCALE: ½" = 1'-0" (24x36)
SCALE: ¼" = 1'-0" (11x17)
0 2 4
SCALE IN FEET

FINAL ANTENNA/FEEDLINE SCHEDULE

SECTOR	POS.	MANUFACTURER (MODEL #)	MOUNTING HEIGHT	AZIMUTH (TN)	CABLE SIZE	CABLE LENGTH	OVP/RRH/TMA/DIPLEXER [MODEL #]
ALPHA	1	QUINTEL (QD8612-3D)	℄ @ 76'-0"±	100°	(12) DC POWER TRUNKS (4) FIBER TRUNKS	156'±	(1) RADIO 4449 B5/B12 (2) RADIO 8843 B2/B66A (1) RADIO 4478 B14 (1) RADIO 2012 B29 (1) RADIO 4415 B30 (2) DC9-48-60-24-8C-EV
ALPHA	2A	ERICSSON (AIR6449 B77D)	℄ @ 76'-0"±	100°			
ALPHA	2B	ERICSSON (AIR6419 B77G)	℄ @ 76'-0"±	100°			
ALPHA	3	QUINTEL (QD8612-2)	℄ @ 76'-0"±	100°			
ALPHA	4	QUINTEL (QD868-2)	℄ @ 76'-0"±	100°			
BETA	5	QUINTEL (QD8612-3D)	℄ @ 76'-0"±	340°			(1) RADIO 4449 B5/B12 (2) RADIO 8843 B2/B66A (1) RADIO 4478 B14 (1) RADIO 2012 B29 (1) RADIO 4415 B30 (1) DC9-48-60-24-8C-EV
BETA	6A	ERICSSON (AIR6449 B77D)	℄ @ 76'-0"±	340°			
BETA	6B	ERICSSON (AIR6419 B77G)	℄ @ 76'-0"±	340°			
BETA	7	QUINTEL (QD8612-2)	℄ @ 76'-0"±	340°			
BETA	8	QUINTEL (QD868-2)	℄ @ 76'-0"±	340°			(1) RADIO 4449 B5/B12 (2) RADIO 8843 B2/B66A (1) RADIO 4478 B14 (1) RADIO 2012 B29 (1) RADIO 4415 B30 (1) DC9-48-60-24-8C-EV
GAMMA	9	QUINTEL (QD8612-3D)	℄ @ 76'-0"±	220°			
GAMMA	10A	ERICSSON (AIR6449 B77D)	℄ @ 76'-0"±	220°			
GAMMA	10B	ERICSSON (AIR6419 B77G)	℄ @ 76'-0"±	220°			
GAMMA	11	QUINTEL (QD8612-2)	℄ @ 76'-0"±	220°			
GAMMA	12	QUINTEL (QD868-2)	℄ @ 76'-0"±	220°			

2 FINAL ANTENNA SCHEDULE
SCALE: N.T.S.

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SHEET TITLE:
FINAL ANTENNA LAYOUT & SCHEDULE

SHEET NUMBER: C-3
REVISION: A

TEP #: 314201.336187

SITE PHOTOGRAPHS

1. **Photo facing north towards the parent property.**

2. **Photo facing northeast towards the parent property.**

3. Photo of underground utility vault.

4. Photo of shipment containers of unknown diameter.

U.S. Fish and Wildlife Service

National Wetlands Inventory

Wetlands

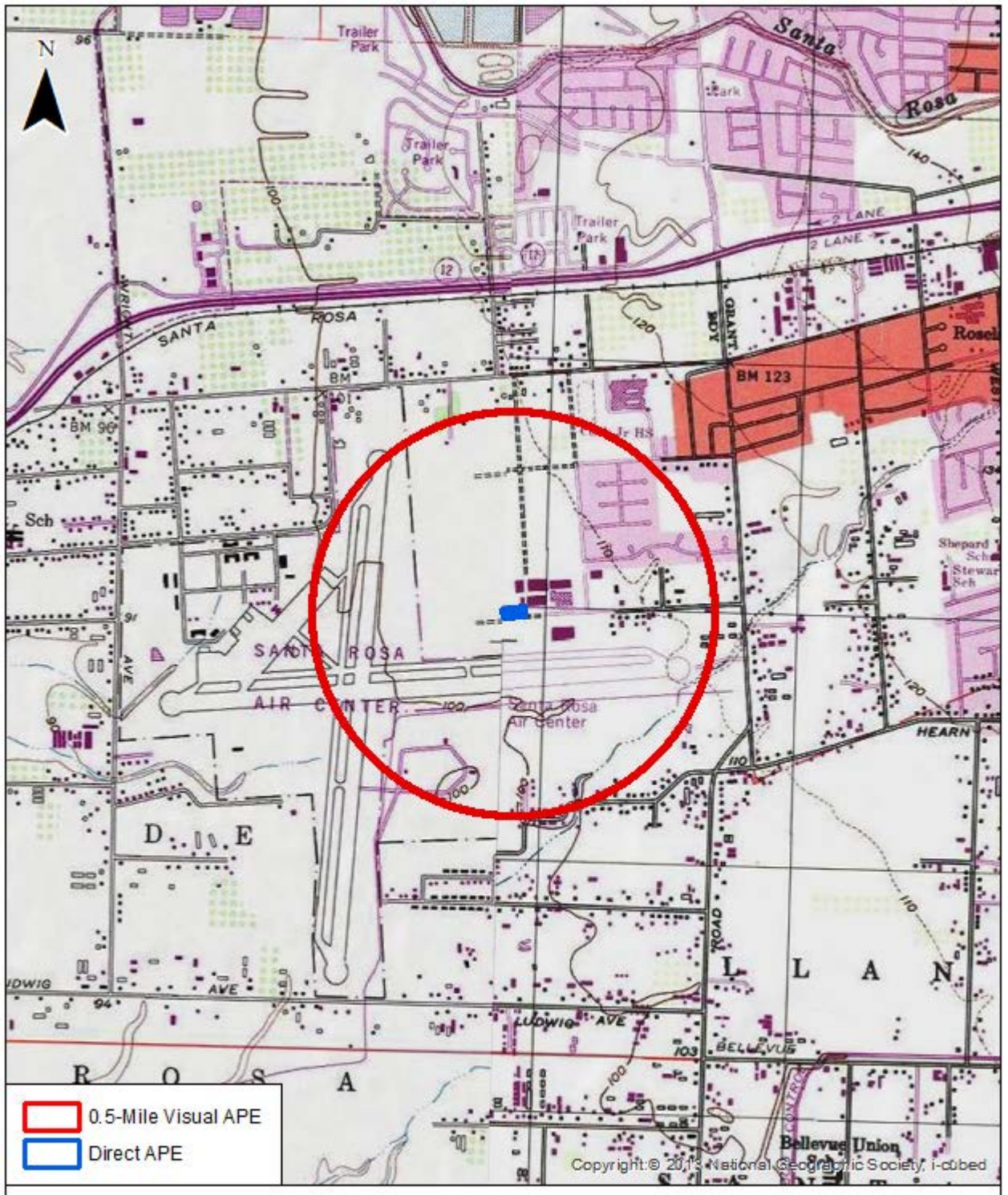
December 16, 2022

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

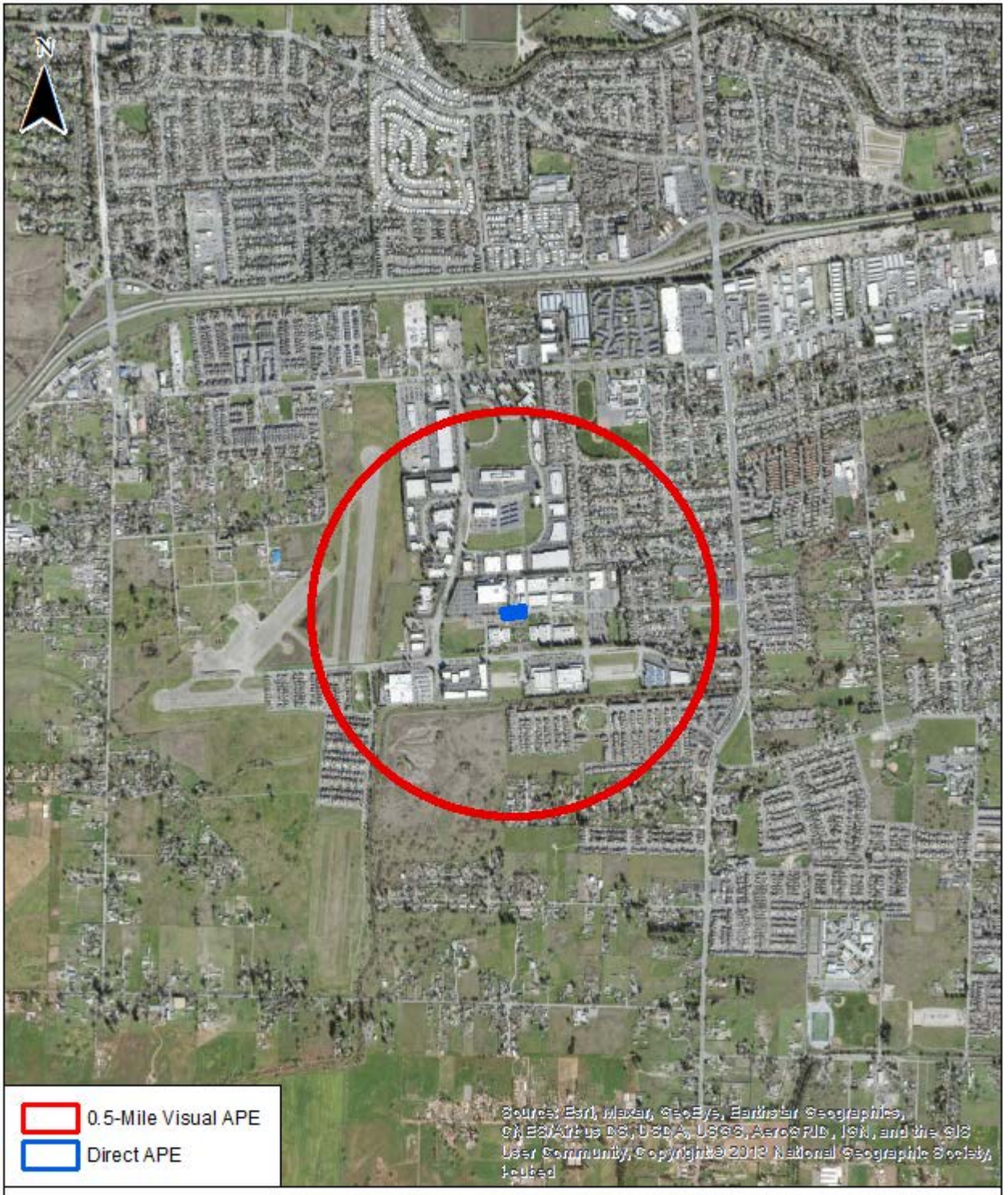
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper



0 0.25 0.5 1 Miles

SW SANTA ROSA Tower
Sonoma County, CA



0 0.25 0.5 1 Miles

SW SANTA ROSA Tower
Sonoma County, CA