

**Before the Zoning Administrator in and for the  
County of Monterey, State of California**

In the matter of the application of:

**EPISCOPAL CHURCH IN THE DIOCESE/SPRINT  
(PLN170734)**

**RESOLUTION NO. 18 – 033**

Resolution by the Monterey County Zoning  
Administrator:

- 1) Finding the project categorically exempt per section 15303 of the California Environmentally Quality Act; and
- 2) Approving a Use Permit to allow the installation of a 50-foot high communications monopole with eight (8) antennas (6 panel antennas, 1 microwave antenna & 1 satellite antenna), all associated transmission cables, outdoor cabinets, and a 30 x 30 square foot fencing perimeter.

[PLN170734, Episcopal Church in the Diocese  
(Precision Site Development d/b/a Sprint, 65000  
Jolon Road, Lockwood, South County Area Plan  
(APN: 215-011-003-000 & 201-021-003-000)]

**REVISED  
July 2, 2018**

**(This resolution  
supersedes the previous  
resolution mailed on  
June 15, 2018)**

**The Episcopal Church in the Diocese (Precision Site Development d/b/a Sprint) application (PLN170734) came on for public hearing before the Monterey County Zoning Administrator on June 14, 2018. Having considered all the written and documentary evidence, the administrative record, the staff report, oral testimony, and other evidence presented, the Zoning Administrator finds and decides as follows:**

**FINDINGS AND EVIDENCE**

1.       **FINDING:**       **PROJECT DESCRIPTION** – The proposed project is a Use Permit to allow the installation of a 50-foot high communications monopole with eight (8) antennas (6 panel antennas, 1 microwave antenna & 1 satellite antenna), all associated transmission cables, outdoor cabinets, and a 30 x 30 square foot fencing perimeter.  
  
          **EVIDENCE:**       The application, project plans, and related support materials submitted by the project applicant to Monterey County RMA-Planning for the proposed development found in Project File PLN170734.
  
2.       **FINDING:**       **CONSISTENCY** – The Project, as conditioned, is consistent with the applicable plans and policies which designate this area as appropriate for development.  
  
          **EVIDENCE:**    a) During the course of review of this application, the project has been reviewed for consistency with the text, policies, and regulations in:
  - the 2010 Monterey County General Plan;
  - South County Area Plan;
  - Monterey County Zoning Ordinance (Title 21);

No conflicts were found to exist. No communications were received during the course of review of the project indicating any inconsistencies with the text, policies, and regulations in these documents.

- b) The property is located at 65000 Jolon Road (Assessor's Parcel Number 215-011-003-000), South County Area Plan. The parcel is zoned Public/Quasi-Public, which allows wireless communication facilities with a Use Permit pursuant to Section 21.64.310. Therefore, the project is an allowed land use for this site.
- c) The parcel has two permanent buildings on the southern side of the parcel, both are part of the Saint Luke Episcopal Church. The church has been designated as a historic structure. However, the proposed monopole and associated equipment will be approximately 150'-200' northwest of the existing buildings. Additionally, the site has been previously developed with other modern structures that remove any concern about historical context of the parcel. The addition of the cell tower will not impact operations of the church and will not have any significant adverse impact on surrounding properties.
- d) The project has been sited and designed to meet the requirements for wireless communications facilities specified in Monterey County Code Section 21.64.310 (see Finding 7).
- e) The project planner conducted a site inspection on May 15, 2018 to verify that the project on the subject parcel conforms to the plans listed above.
- f) The project was not referred to the South County Land Use Advisory Committee (LUAC) for review. Based on the LUAC Procedure guidelines adopted by the Monterey County Board of Supervisors, this application did not warrant referral to the LUAC because the proposed project does not require CEQA review (i.e. did not require an initial study); the project does not involve a lot line adjustment with conflicts; the project did not include a variance; and the project is not solely a Design Approval subject to the review of the Zoning Administrator or Planning Commission.
- g) The application, project plans, and related support materials submitted by the project applicant to Monterey County RMA-Planning for the proposed development found in Project File PLN170734.

3. **FINDING:** **SITE SUITABILITY** – The site is physically suitable for the use proposed.

- EVIDENCE:**
- a) The project has been reviewed for site suitability by the following departments and agencies: RMA- Planning, State Responsibility Fire Protection Area, RMA-Public Works, RMA-Environmental Services, Environmental Health Bureau, and Water Resources Agency. There has been no indication from these departments/agencies that the site is not suitable for the proposed development. Conditions recommended have been incorporated.
  - b) The following reports have been prepared:
    - *“Geotechnical Investigation Report” (LIB180150) prepared by MID Pacific Engineering, Inc., Sacramento, CA, January 19, 2018.*

- “Tree Resource Assessment” (LIB180148) prepared by Frank Ono, Urban Forester, Pacific Grove, CA, December 18, 2017.
- “Phase I Environmental Site Assessment” (LIB180151) prepared by Ramaker & Associates, Inc., Sauk City, Wisconsin, January 9, 2018.

The above-mentioned technical reports by outside consultants indicated that there are no physical or environmental constraints that would indicate that the site is not suitable for the use proposed. County staff has independently reviewed these reports and concurs with their conclusions.

- c) Staff conducted a site inspection on May 15, 2018 to verify that the site is suitable for this use.
- d) The application, project plans, and related support materials submitted by the project applicant to the Monterey County RMA - Planning for the proposed development found in Project File PLN170734.

4. **FINDING:** **HEALTH AND SAFETY** - The establishment, maintenance, or operation of the project applied for will not under the circumstances of this particular case be detrimental to the health, safety, peace, morals, comfort, and general welfare of persons residing or working in the neighborhood of such proposed use, or be detrimental or injurious to property and improvements in the neighborhood or to the general welfare of the County.

- EVIDENCE:**
- a) The project was reviewed by RMA - Planning, State Responsibility Fire Protection Area, RMA - Public Works, Environmental Health Bureau, and Water Resources Agency. The respective agencies have recommended conditions, where appropriate, to ensure that the project will not have an adverse effect on the health, safety, and welfare of persons either residing or working in the neighborhood.
  - b) Necessary public facilities are available. No additional facilities are required for this use.
  - c) A Radio-Frequency Electromagnetic (RF-EME) Modeling Report was prepared for the project. The RF-EME report indicated that there are no physical or environmental impacts resulting from radio frequency emissions that would be detrimental to public health and safety. This report is consistent with applicable requirements of the Federal Communications Commission (FCC).
  - d) Staff conducted a site inspection on May 15, 2018 to verify that the site is suitable for this use.
  - e) The application, project plans, and related support materials submitted by the project applicant to the Monterey County RMA - Planning for the proposed development found in Project File PLN170734.

5. **FINDING:** **NO VIOLATIONS** - The subject property is in compliance with all rules and regulations pertaining to zoning uses, subdivision, and any other applicable provisions of the County’s zoning ordinance. No violations exist on the property.

- EVIDENCE:**
- a) Staff reviewed Monterey County RMA - Planning and Building Services Department records and is not aware of any violations existing on subject property.
  - b) Staff conducted a site inspection on May 15, 2018 and researched County records to assess if any violation exists on the subject property.
  - c) The application, plans and supporting materials submitted by the project applicant to Monterey County RMA-Planning for the proposed development are found in Project File PLN170734.

6. **FINDING:** **CEQA (Exempt):** - The project is categorically exempt from environmental review and no unusual circumstances were identified to exist for the proposed project.

- EVIDENCE:**
- a) California Environmental Quality Act (CEQA) Guidelines Section 15303, categorically exempts the construction and location of new, small facilities or structures.
  - b) The project involves the installation of a 50-foot high communications monopole with eight (8) antennas (6 panel antennas, 1 microwave antenna & 1 satellite antenna), all associated transmission cables, outdoor cabinets, and a 30 x 30 square foot fencing perimeter.
  - c) No adverse environmental effects were identified during staff review of the development application during a site visit on May 15, 2018.
  - d) None of the exceptions under CEQA Guidelines Section 15300.2 apply to this project. The proposed project will not result in cumulative impacts of successive projects of the same type in the same place, is not located within or near a scenic highway, road, or corridor, is not located on a hazardous waste site, and does not involve any change to a historical resource.
  - e) The application, project plans, and related support materials submitted by the project applicant to Monterey County RMA-Planning for the proposed development found in Project File PLN170734.

7. **FINDING** **WIRELESS COMMUNICATIONS FACILITIES** – The development of the proposed wireless communications facility will not significantly affect any designated public viewing area, scenic corridor, or any identified environmentally sensitive area or resources. The site is adequate for the proposed development of the wireless communications facility, and the applicant has demonstrated that it is the most adequate for the provision of services as required by the Federal Communications Commission (FCC). The proposed wireless communication facility complies with all applicable requirements of Monterey County Code (MCC) Section 21.64.310. The subject property on which the wireless communication facility is to be built is in compliance with all rules and regulations pertaining to zoning uses, subdivisions, and any other applicable provisions of MCC, and that all zoning violation abatement costs, if any, have been paid. The proposed telecommunication facility will not create a hazard for aircraft in flight.

- EVIDENCE:**
- a) The project consists of the installation of a 50-foot high communications monopole with eight (8) antennas (6 panel antennas, 1 microwave antenna & 1 satellite antenna), all associated transmission

cables, outdoor cabinets, and a 30 x 30 square foot fencing perimeter. The site is located at 65000 Jolon Road, Lockwood. There are two (2) privately owned parcels in the location where Sprint is trying to place a site, and both are owned by the Episcopal Diocese of El Camino Real. They own parcel number 215-011-003-000 which is where the proposed site is located, and parcel number 201-021-003-000. The church would only allow Sprint to locate on the one parcel as proposed. The surrounding parcels are owned by the US Government. However, the US Government is not open to any new towers on this land, which is why this site is selected.

- b) Pursuant to the requirements in MCC Section 21.64.310(C)(5) the County analyzed potential visual impacts which could result from the placement of the facility, and finds that the proposed facility will not create a significant visual impact from adjacent properties or roadways. The subject property is not in a designated Visually Sensitive area pursuant to MCC Title 21 (Zoning Ordinance). The proposed facility will be visible from adjacent properties and not from Hwy 101, but the facility will blend with the visual character of the area. Additionally, conditions have been incorporated that require the monopole to be painted brown to blend with the existing natural landscape, which will help filter its presence, that would reduce the visual impacts in the event of technological advances, and that would require removal and restoration of the site in case of termination of use (Condition Nos. 13, 8, and 10).
- c) The project is consistent with MCC Chapter 21.86, Airport Approach Zoning, and does not require review by the Monterey County Airport Land Use Commission. This project does not affect any aircraft zones identified in MCC Section 21.86.050, and the proposed height is within the limitations outlined in MCC Section 21.86.060.
- d) The project does not penetrate a FAR Part 77 Imaginary Surface. The project site is located approximately 21 miles from the Mesa Del Rey Airport, the nearest public use airport. If deemed necessary by the FCC, warning lights would be located on top of the structure to prevent conflict with any aircraft when visibility is limited.
- e) The project planner reviewed the project application materials and plans, as well as the County's GIS database, to verify that the project on the subject parcel conforms to the plans listed above and that the site is suitable for this use. The application, plans, and supporting materials submitted by the project applicant to Monterey County RMA-Planning for the proposed development are found in Project File PLN170734.

7.       **FINDING:**           **APPEALABILITY** - The decision on this project may be appealed to the Planning Commission.
- EVIDENCE:**           Section 21.80.040 of the Monterey County Zoning Ordinance (Title 21) states that the proposed project is appealable to the Planning Commission.

## DECISION

**NOW, THEREFORE**, based on the above findings and evidence, the Zoning Administrator does hereby:

1. Find the project is a small structure, which qualifies for a Class 3 Categorical Exemption per Section 15303 of the CEQA Guidelines and does not meet any of the exceptions under Section 15300.2;
2. Approve a Use Permit to allow the installation of a 50-foot high communications monopole with eight (8) antennas (6 panel antennas, 1 microwave antenna & 1 satellite antenna), all associated transmission cables, outdoor cabinets, and a 30 x 30 square foot fencing perimeter, in general conformance with the attached sketch and subject to the conditions, both being attached hereto and incorporated herein by reference.

**PASSED AND ADOPTED** this 14th day of June, 2018.



\_\_\_\_\_  
Mike Novo, Zoning Administrator

COPY OF THIS DECISION MAILED TO APPLICANT ON **JUN 15 2018**

THIS APPLICATION IS APPEALABLE TO THE PLANNING COMMISSION.

IF ANYONE WISHES TO APPEAL THIS DECISION, AN APPEAL FORM MUST BE COMPLETED AND SUBMITTED TO THE SECRETARY OF THE PLANNING COMMISSION ALONG WITH THE APPROPRIATE FILING FEE ON OR BEFORE **JUN 25 2018**

This decision, if this is the final administrative decision, is subject to judicial review pursuant to California Code of Civil Procedure Sections 1094.5 and 1094.6. Any Petition for Writ of Mandate must be filed with the Court no later than the 90th day following the date on which this decision becomes final.

### NOTES

1. You will need a building permit and must comply with the Monterey County Building Ordinance in every respect.

Additionally, the Zoning Ordinance provides that no building permit shall be issued, nor any use conducted, otherwise than in accordance with the conditions and terms of the permit granted or until ten days after the mailing of notice of the granting of the permit by the appropriate authority, or after granting of the permit by the Board of Supervisors in the event of appeal.

Do not start any construction or occupy any building until you have obtained the necessary permits and use clearances from Monterey County RMA-Planning and RMA-Building Services Department office in Salinas.

2. This permit expires 3 years after the above date of granting thereof unless construction or use is started within this period.

Form Rev. 5-14-2014

# Monterey County RMA Planning

## Conditions of Approval/Implementation Plan/Mitigation Monitoring and Reporting Plan

PLN170734

### 1. PD001(A) SPECIFIC USES ONLY (WIRELESS COMMUNICATION FACILITIES)

**Responsible Department:** RMA-Planning

**Condition/Mitigation Monitoring Measure:** This Use Permit (PLN170734) allows for the installation of a wireless communications facility consisting of a 50-foot high monopole with eight (8) antennas, all associated transmission cables; outdoor cabinets, and 6' tall fenced perimeter. The property is located at 65000 Jolon Road, Jolon (Assessor's Parcel Number 215-011-003-000), South County Area Plan. This permit was approved in accordance with County ordinances and land use regulations subject to the following terms and conditions. The term "applicant" or "owner/applicant" as used in these conditions means Applicant\* and its successors and assigns. Neither the uses nor the construction allowed by this permit shall commence unless and until all of the conditions of this permit are met to the satisfaction of the Director of the RMA - Planning. Any use or construction not in substantial conformance with the terms and conditions of this permit is a violation of County regulations and may result in modification or revocation of this permit and subsequent legal action. No use or construction other than that specified by this permit is allowed unless additional permits are approved by the appropriate authorities. To the extent that the County has delegated any condition compliance or mitigation monitoring to the Monterey County Water Resources Agency, the Water Resources Agency shall provide all information requested by the County and the County shall bear ultimate responsibility to ensure that conditions and mitigation measures are properly fulfilled. (RMA - Planning)

**Compliance or Monitoring Action to be Performed:** The Applicant (Applicant\*) and its successors and assigns shall adhere to conditions and uses specified in the permit on an ongoing basis unless otherwise stated.

## 2. PD002 - NOTICE PERMIT APPROVAL

**Responsible Department:** RMA-Planning

**Condition/Mitigation Monitoring Measure:** The applicant shall record a Permit Approval Notice. This notice shall state:

"A Use Permit (Resolution Number 18-033) for the installation of a wireless communications facility consisting of a 50-foot high monopole with eight (8) antennas, all associated transmission cables; outdoor cabinets, and 6' tall fenced perimeter was approved by Zoning Administrator for Assessor's Parcel Number 215-011-003-000 & 201-021-003-000 on June 14th, 2018. The permit was granted subject to 14 conditions of approval which run with the land. A copy of the permit is on file with Monterey County RMA - Planning."

Proof of recordation of this notice shall be furnished to the Director of RMA - Planning prior to issuance of grading and building permits, Certificates of Compliance, or commencement of use, whichever occurs first and as applicable. (RMA - Planning)

**Compliance or Monitoring Action to be Performed:** Prior to the issuance of grading and building permits, certificates of compliance, or commencement of use, whichever occurs first and as applicable, the Owner/Applicant shall provide proof of recordation of this notice to the RMA - Planning.

## 3. PD039(A) - WIRELESS INDEMNIFICATION

**Responsible Department:** RMA-Planning

**Condition/Mitigation Monitoring Measure:** The applicant agrees as a condition and in consideration of the approval of the permit to enter into an indemnification agreement with the County whereby the applicant agrees to defend, indemnify, and hold harmless the County, its officers, agents and employees from actions or claims of any description brought on account of any injury or damages sustained by any person or property resulting from the issuance of the permit and conduct of the activities authorized under said permit. Applicant shall obtain the permission of the owner on which the wireless communication facility is located to allow the recordation of said indemnification agreement, and the applicant shall cause said indemnification agreement to be recorded by the County Recorder as a prerequisite to the issuance of the building and/or grading permit. The County shall promptly notify the applicant of any such claim, action, or proceeding and the County shall cooperate fully in the defense thereof. The County may, at its sole discretion, participate in the defense of such action, but such participation shall not relieve applicant of its obligations under this condition. (RMA - Planning)

**Compliance or Monitoring Action to be Performed:** Prior to the issuance of grading or building permits, the Owner/Applicant shall submit signed and notarized Indemnification Agreement to the Director of RMA-Planning for review and signature by the County.

Prior to the issuance of grading or building permits, the Owner/Applicant shall submit proof of recordation of the Indemnification Agreement, as outlined, to RMA-Planning.

#### 4. PD006(A) - CONDITION COMPLIANCE FEE

**Responsible Department:** RMA-Planning

**Condition/Mitigation Monitoring Measure:** The Owner/Applicant shall pay the Condition Compliance fee, as set forth in the fee schedule adopted by the Board of Supervisors, for the staff time required to satisfy conditions of approval. The fee in effect at the time of payment shall be paid prior to clearing any conditions of approval.

**Compliance or Monitoring Action to be Performed:** Prior to clearance of conditions, the Owner/Applicant shall pay the Condition Compliance fee, as set forth in the fee schedule adopted by the Board of Supervisors.

#### 5. PD003(A) - CULTURAL RESOURCES NEGATIVE ARCHAEOLOGICAL REPORT

**Responsible Department:** RMA-Planning

**Condition/Mitigation Monitoring Measure:** If, during the course of construction, cultural, archaeological, historical or paleontological resources are uncovered at the site (surface or subsurface resources) work shall be halted immediately within 50 meters (165 feet) of the find until a qualified professional archaeologist can evaluate it. Monterey County RMA - Planning and a qualified archaeologist (i.e., an archaeologist registered with the Register of Professional Archaeologists) shall be immediately contacted by the responsible individual present on-site. When contacted, the project planner and the archaeologist shall immediately visit the site to determine the extent of the resources and to develop proper mitigation measures required for recovery.  
(RMA - Planning)

**Compliance or Monitoring Action to be Performed:** The Owner/Applicant shall adhere to this condition on an on-going basis.

Prior to the issuance of grading or building permits and/or prior to the recordation of the final/parcel map, whichever occurs first, the Owner/Applicant shall include requirements of this condition as a note on all grading and building plans. The note shall state "Stop work within 50 meters (165 feet) of uncovered resource and contact Monterey County RMA - Planning and a qualified archaeologist immediately if cultural, archaeological, historical or paleontological resources are uncovered."

When contacted, the project planner and the archaeologist shall immediately visit the site to determine the extent of the resources and to develop proper mitigation measures required for the discovery.

## 6. PD041 - HEIGHT VERIFICATION

**Responsible Department:** RMA-Planning

**Condition/Mitigation Monitoring Measure:** The applicant shall have a benchmark placed upon the property and identify the benchmark on the building plans. The benchmark shall remain visible on-site until final building inspection. The applicant shall provide evidence from a licensed civil engineer or surveyor to the Director of RMA - Building Services for review and approval, that the height of the structure(s) from the benchmark is consistent with what was approved on the building permit associated with this project. (RMA - Planning and RMA - Building Services)

**Compliance or Monitoring Action to be Performed:** Prior to the issuance of grading or building permits, the Owner/Applicant shall have a benchmark placed upon the property and identify the benchmark on the building plans. The benchmark shall remain visible onsite until final building inspection.

Prior to the foundation pre-pour inspection, the Owner/Applicant shall provide evidence from a licensed civil engineer or surveyor, to the Director of RMA- Building Services for review and approval, that the height of first finished floor from the benchmark is consistent with what was approved on the building permit.

Prior to the final inspection, the Owner/Applicant/Engineer shall provide evidence from a licensed civil engineer or surveyor, to the Director of RMA- Building Services for review and approval, that the height of the structure(s) from the benchmark is consistent with what was approved on the building permit.

## 7. PD032(A) - PERMIT EXPIRATION

**Responsible Department:** RMA-Planning

**Condition/Mitigation Monitoring Measure:** The permit shall be granted for a time period of 3 years, to expire on June 14, 2021 unless use of the property or actual construction has begun within this period. (RMA-Planning)

**Compliance or Monitoring Action to be Performed:** Prior to the expiration date stated in the condition, the Owner/Applicant shall obtain a valid grading or building permit and/or commence the authorized use to the satisfaction of the RMA-Director of Planning. Any request for extension must be received by RMA-Planning at least 30 days prior to the expiration date.

## 8. PD039(B) - WIRELESS REDUCE VISUAL IMPACTS

**Responsible Department:** RMA-Planning

**Condition/Mitigation Monitoring Measure:** The applicant shall agree in writing that if future technological advances allow for reducing the visual impacts of the telecommunication facility, the applicant shall make modifications to the facility accordingly to reduce the visual impact as part of the facility's normal replacement schedule. (RMA - Planning)

**Compliance or Monitoring Action to be Performed:** Prior to the issuance of grading or building permits, the Owner/Applicant shall submit, in writing, a declaration agreeing to comply with the terms of this condition RMA - Planning for review and approval.

## 9. PD039(C) - WIRELESS CO-LOCATION

**Responsible Department:** RMA-Planning

**Condition/Mitigation Monitoring Measure:** The applicant and/or successors assigns shall encourage co-location by other wireless carriers on this tower assuming appropriate permits are approved for co-location. Any expansion or additions of microwave dishes, antennas and/or similar appurtenances located on the monopole, which are not approved pursuant to this permit, are not allowed unless the appropriate authority approves additional permits or waivers. In any case, the overall height of the pole shall not exceed the specified height. (RMA - Planning)

**Compliance or Monitoring Action to be Performed:** On an on-going basis, the Owner/Applicant shall encourage co-location by other wireless carriers on this tower assuming appropriate permits are approved for co-location. The overall height of the pole shall not exceed 50 feet.

## 10. PD039(D) - WIRELESS REMOVAL

**Responsible Department:** RMA-Planning

**Condition/Mitigation Monitoring Measure:** If the applicant abandons the facility or terminates the use, the applicant shall remove the monopole, panel antennas, and equipment shelter. Upon such termination or abandonment, the applicant shall enter into a site restoration agreement subject to the approval of the Director of RMA - Planning and County Counsel. The site shall be restored to its natural state within six (6) months of the termination of use or abandonment of the site.  
(RMA - Planning)

**Compliance or Monitoring Action to be Performed:** Prior to abandoning the facility or terminating the use, the Owner/Applicant shall submit a site restoration agreement to RMA - Planning subject to the approval of the RMA - Director of Planning and County Counsel.

Within 6 months of termination of use or abandonment of the site, the Owner Applicant shall restore the site to its natural state.

## 11. PD039(E) - WIRELESS EMISSION

**Responsible Department:** RMA-Planning

**Condition/Mitigation Monitoring Measure:** The facility must comply with Federal Communications Commission (FCC) emission standards. If the facility is in violation of FCC emission standards, the Director of RMA - Planning shall set a public hearing before the Appropriate Authority whereupon the appropriate authority may, upon a finding based on substantial evidence that the facility is in violation of the then existing FCC emission standards, revoke the permit or modify the conditions of the permit. (RMA - Planning)

**Compliance or Monitoring Action to be Performed:** Prior to commencement of use and on an on-going basis, the Owner/Applicant shall submit documentation demonstrating compliance with the FCC emission standards to the Director of RMA-Planning for review and approval.

On an on-going basis, if the facility is in violation of FCC emission standards, the Director of RMA-Planning shall set a public hearing before the Appropriate Authority to consider revocation or modification of the permit.

## 12. PD011 - TREE AND ROOT PROTECTION

**Responsible Department:** RMA-Planning

**Condition/Mitigation Monitoring Measure:** Trees which are located close to construction site(s) shall be protected from inadvertent damage from construction equipment by fencing off the canopy driplines and/or critical root zones (whichever is greater) with protective materials, wrapping trunks with protective materials, avoiding fill of any type against the base of the trunks and avoiding an increase in soil depth at the feeding zone or drip-line of the retained trees. Said protection, approved by certified arborist, shall be demonstrated prior to issuance of building permits subject to the approval of RMA - Director of Planning. If there is any potential for damage, all work must stop in the area and a report, with mitigation measures, shall be submitted by certified arborist. Should any additional trees not included in this permit be harmed, during grading or construction activities, in such a way where removal is required, the owner/applicant shall obtain required permits. (RMA - Planning)

**Compliance or Monitoring Action to be Performed:** Prior to issuance of grading and/or building permits, the Owner/Applicant shall submit evidence of tree protection to RMA - Planning for review and approval.

During construction, the Owner/Applicant/Arborist shall submit on-going evidence that tree protection measures are in place through out grading and construction phases. If damage is possible, submit an interim report prepared by a certified arborist.

Prior to final inspection, the Owner/Applicant shall submit photos of the trees on the property to RMA-Planning after construction to document that tree protection has been successful or if follow-up remediation or additional permits are required.

## 13. MONOPOLE PAINT

**Responsible Department:** RMA-Planning

**Condition/Mitigation Monitoring Measure:** The proposed monopole will be painted brown to blend with the existing natural landscape, which will help filter its presence from the historic property.

**Compliance or Monitoring Action to be Performed:** Prior to the final building inspection, Applicant/Agent shall submit photos showing evidence of the painted (brown) monopole.  
RMA-Planning

## 14. NO SUBSURFACE CONSTRUCTION WITHIN 25'

**Responsible Department:** RMA-Planning

**Condition/Mitigation Monitoring Measure:** No subsurface construction should occur within 25 feet of the fence line defining the historic cemetery.

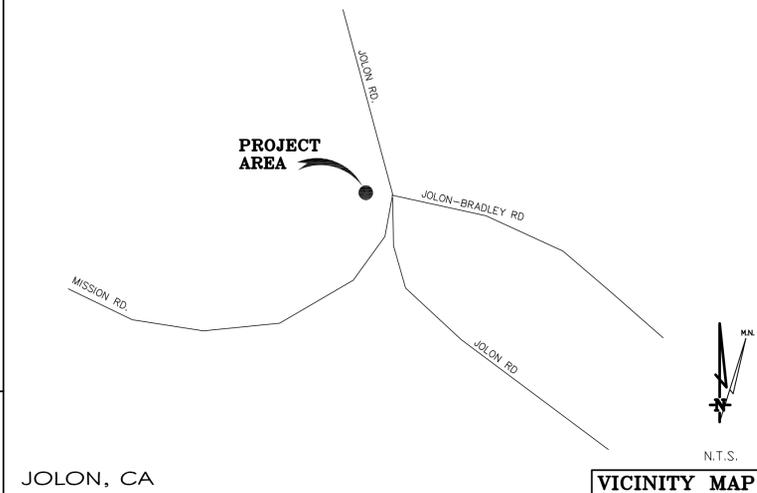
**Compliance or Monitoring Action to be Performed:** Prior to the issuance of grading or building permits and/or prior to the recordation of the final/parcel map, whichever occurs first, the Owner/Applicant shall include requirements of this condition as a note on all grading and building plans.  
RMA-Planning



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

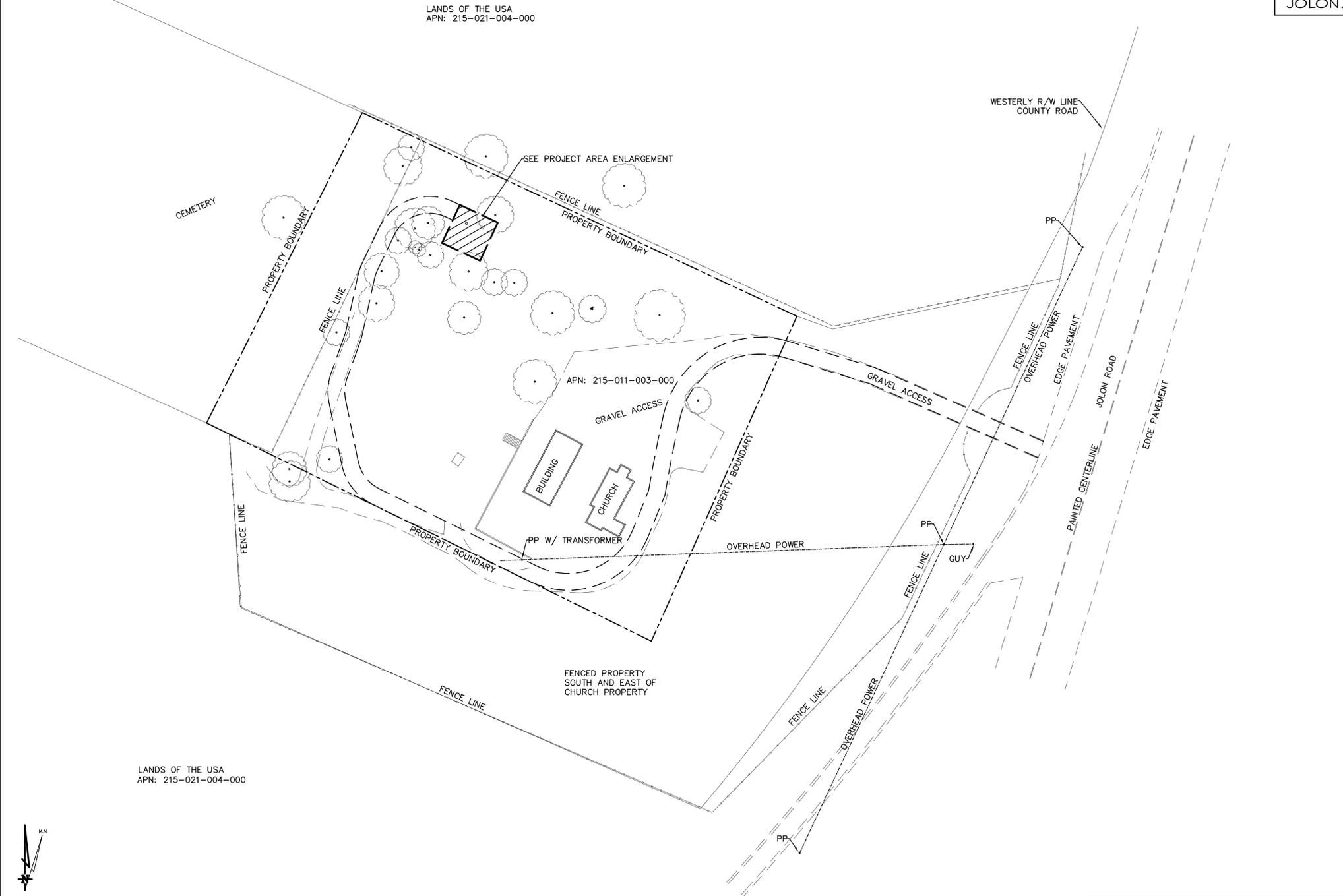
THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE, ARE THE EXCLUSIVE PROPERTY OF GEIL ENGINEERING AND THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE AND CARRIER FOR WHICH THEY ARE PREPARED. REUSE, REPRODUCTION OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED EXCEPT BY WRITTEN PERMISSION FROM GEIL ENGINEERING TITLE TO THESE PLANS AND/OR SPECIFICATIONS SHALL REMAIN WITH GEIL ENGINEERING WITHOUT PREJUDICE AND VISUAL CONTACT WITH THEM SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

DATE OF SURVEY: 05-24-17  
 SURVEYED BY OR UNDER DIRECTION OF: KENNETH D. GEIL, R.C.E. 14803  
 LOCATED IN THE COUNTY OF MONTEREY, STATE OF CALIFORNIA  
 BEARINGS SHOWN ARE BASED UPON MONUMENTS FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY.  
 ELEVATIONS SHOWN ON THIS PLAN ARE BASED UPON U.S.G.S. N.A.V.D. 88 DATUM. ABOVE MEAN SEA LEVEL UNLESS OTHERWISE NOTED.  
 N.G.V.D. 1929 CORRECTION: SUBTRACT 2.94' FROM ELEVATIONS SHOWN.  
 CONTOUR INTERVAL: 1'  
 ASSESSOR'S PARCEL NUMBER: 215-011-003-000  
 OWNER(S): EPISCOPAL CHURCH IN THE DIOCESE  
 PO BOX 689  
 SALINAS, CA 93902



DEPT		APPROVED		DATE	
ARC	RE				
RF	INT				
EE\IN	OPS				
EE\OUT					

Surveyor  
**GEIL ENGINEERING**  
 ENGINEERING • SURVEYING • PLANNING  
 1226 HIGH STREET  
 AUBURN, CALIFORNIA 95603  
 Phone: (530) 885-0426  
 Fax: (530) 823-1309



**Lease Area Description**  
 All that certain lease area being a portion of that certain parcel of land described in deed filed for record at Book 1504, Page 552, Official Records of Monterey County, being located in the County of Monterey, State of California, being more particularly described as follows:

Commencing at a 1/2" open iron pipe set at the Northwesterly corner of the above referenced parcel, said pipe being shown on that certain survey by Lee MacGowan for St. Luke's Church dated 4/14/1987; thence from said point of commencement South 46°43'56" East 95.71 feet the True Point of Beginning; thence from said point of beginning South 64°59'04" East 30.00 feet; thence South 25°00'56" West 30.00 feet; thence North 64°59'04" West 30.00 feet; thence North 25°00'56" East 30.00 feet to the point of beginning.

Together with a non-exclusive license for access and utility purposes twelve feet in width the centerline of which is described as follows; beginning at a point which bears South 25°00'56" West 6.00 feet from the most Northerly corner of the above described lease area and running thence North 65°00'00" West 5.42 feet; thence though a tangent curve to the left having a radius of 34.00 feet through an arc distance of 53.05 feet; thence tangent to the last curve South 25°36'24" West 27.63 feet; thence though a tangent curve to the left having a radius of 34.00 feet through an arc distance of 7.89 feet; thence tangent to the last curve South 12°18'27" West 40.79 feet; thence though a tangent curve to the right having a radius of 22.00 feet through an arc distance of 2.74 feet; thence tangent to the last curve South 19°26'54" West 10.65 feet; thence South 19°50'12" West 18.52 feet; thence though a tangent curve to the left having a radius of 34.00 feet through an arc distance of 18.67 feet; thence tangent to the last curve South 11°37'24" East 44.96 feet; thence though a tangent curve to the left having a radius of 34.00 feet through an arc distance of 31.07 feet; thence tangent to the last curve South 63°58'29" East 125.79 feet; thence though a tangent curve to the left having a radius of 56.00 feet through an arc distance of 91.85 feet; thence tangent to the last curve North 22°03'15" East 30.72 feet; thence North 11°06'24" East 53.37 feet; thence though a tangent curve to the right having a radius of 65.00 feet through an arc distance of 108.67 feet; thence tangent to the last curve South 73°06'19" East 64.08 feet; thence South 66°23'58" East 131.5 feet more or less to the public right of way more commonly known as Jolon Road.

Geil Engineering  
 Engineering • Surveying • Planning  
 1226 High Street  
 Auburn, California 95603-5015  
 Phone: (530) 885-0426 • Fax: (530) 823-1309

SPRINT  
 Project Number/Name: SF68XCCKB / St. Luke's Episcopal Church

Project Site Location: 65500 Jolon Road  
 Jolon, CA 93928  
 Monterey County

Date of Observation: 05-24-17

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

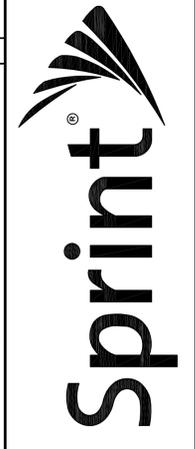
Type of Antenna Mount: Proposed Monopole

Coordinates  
 Latitude: N 35° 58' 18.56" (NAD83) N 35° 58' 18.68" (NAD27)  
 Longitude: W 121° 10' 38.64" (NAD83) W 121° 10' 34.92" (NAD27)

ELEVATION of Ground at Structure (NAVD88) 1015.5" AMSL

CERTIFICATION: I, the undersigned, do hereby certify elevation listed above is based on a field survey done under my supervision and that the accuracy of those elevations meet or exceed 1-A Standards as defined in the FAA ASAC Information Sheet 91.003, and that they are true and accurate to the best of my knowledge and belief.

Kenneth D. Geil California RCE 14803



**SF68XCCKB**  
**ST. LUKES EPISCOPAL CHURCH**  
 65500 JOLON ROAD  
 JOLON, CA 93928  
 PLOT PLAN AND  
 SITE TOPOGRAPHY

REVISIONS	REV	DATE	DESCRIPTION
05-25-17	N. ROND		PRELIMINARY DRAWING
07-05-17	N. ROND		LEASE AREA PLACED
08-21-17	N. ROND		EASEMENT TO LICENSE
05-27-18	1/3		rev. address

Sheet  
**C-1**

SCALE 1" = 40'

**OVERALL PROJECT AREA**

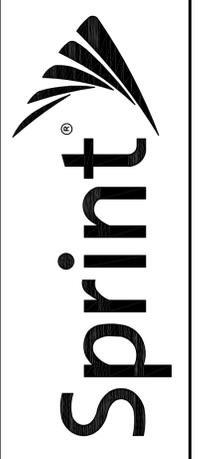
APN: 215-021-004-000

APN: 215-011-003-000

APN: 215-021-004-000

DEPT	APPROVED	DATE
A&C		
RE		
RF		
INT		
EE\IN		
OPS		
EE\OUT		

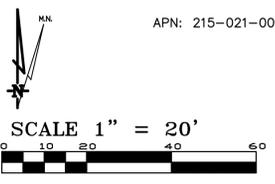
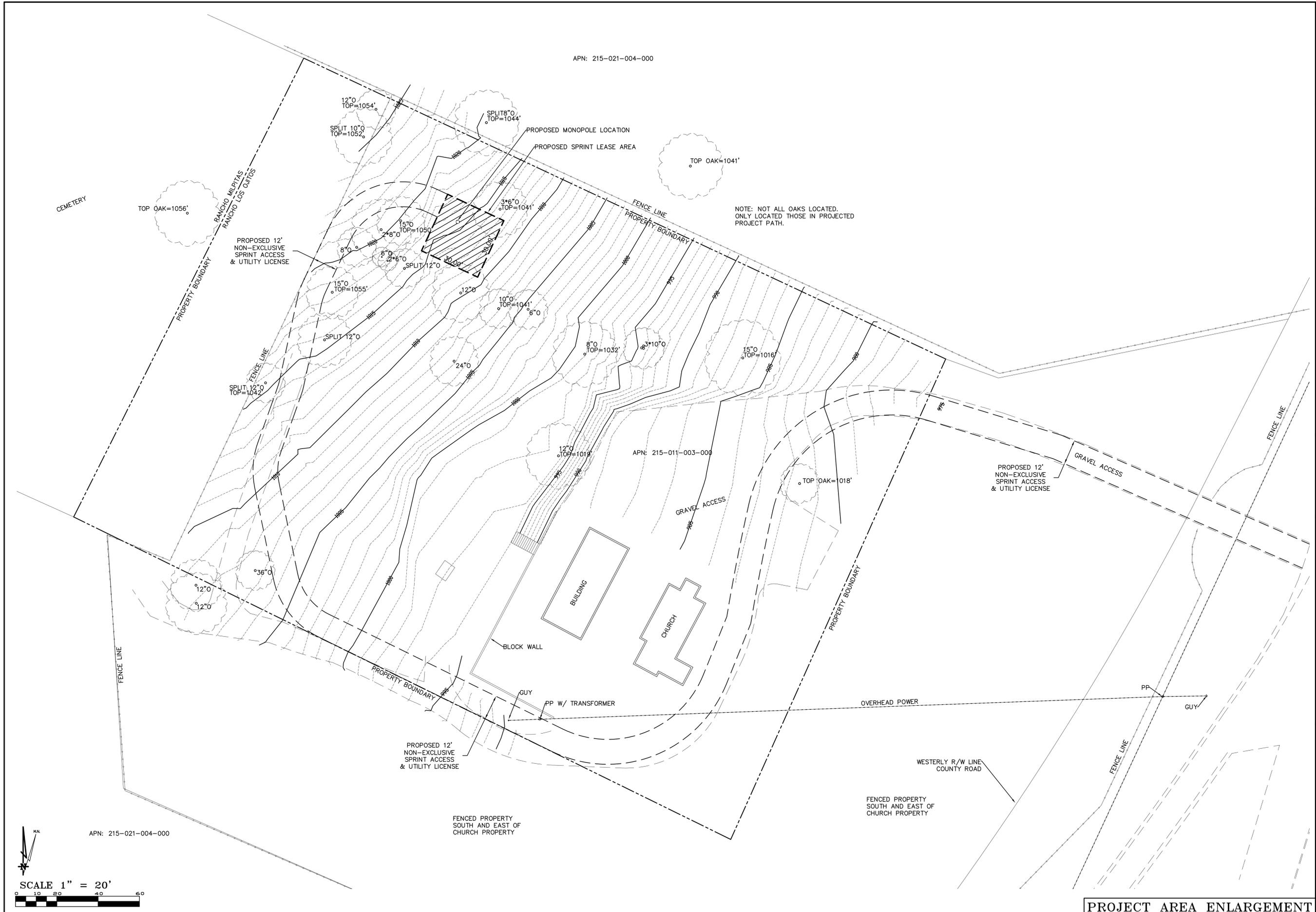
Surveyor  
**GEIL ENGINEERING**  
 ENGINEERING • SURVEYING • PLANNING  
 1228 HIGH STREET  
 AUBURN, CALIFORNIA 96905  
 Phone: (530) 885-0486  
 Fax: (530) 885-0488



**SF68XC5KB**  
**ST. LUKES EPISCOPAL CHURCH**  
 65500 JOLON ROAD  
 JOLON, CA 95928  
 PLOT PLAN AND  
 SITE TOPOGRAPHY

Sheet

C-2



PROJECT AREA ENLARGEMENT

REV	DATE	DESCRIPTION
C	06/22/18	100% ZD SUBMITTAL
B	03/22/18	100% ZD SUBMITTAL
A	08/21/17	90% ZD SUBMITTAL

06/22/2018

100% ZD



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SF68XCSKB

ST. LUKE'S EPISCOPAL CHURCH

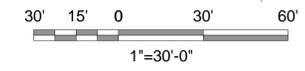
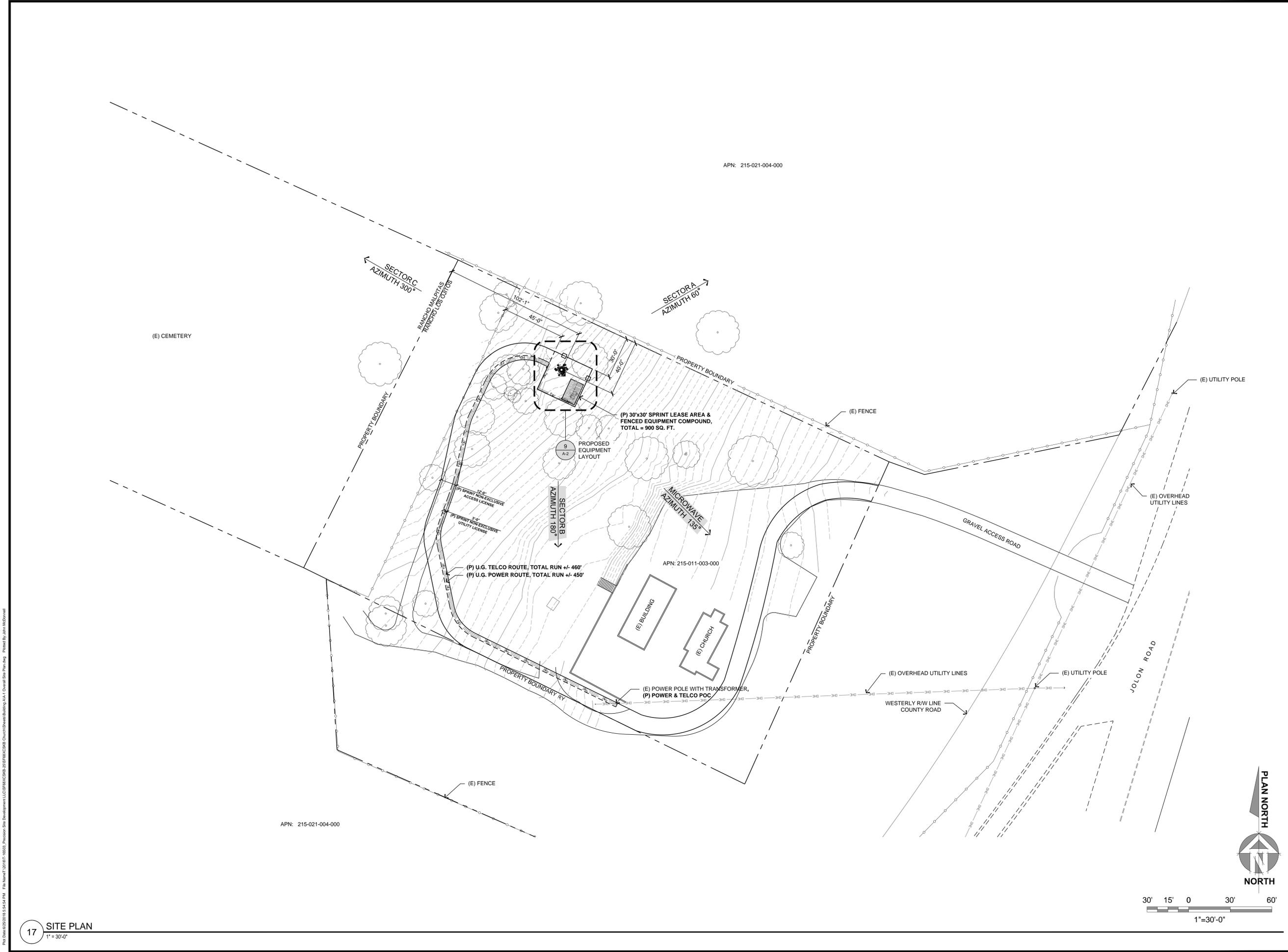
65500 JOLON ROAD  
 JOLON, CA 93928

SHEET TITLE

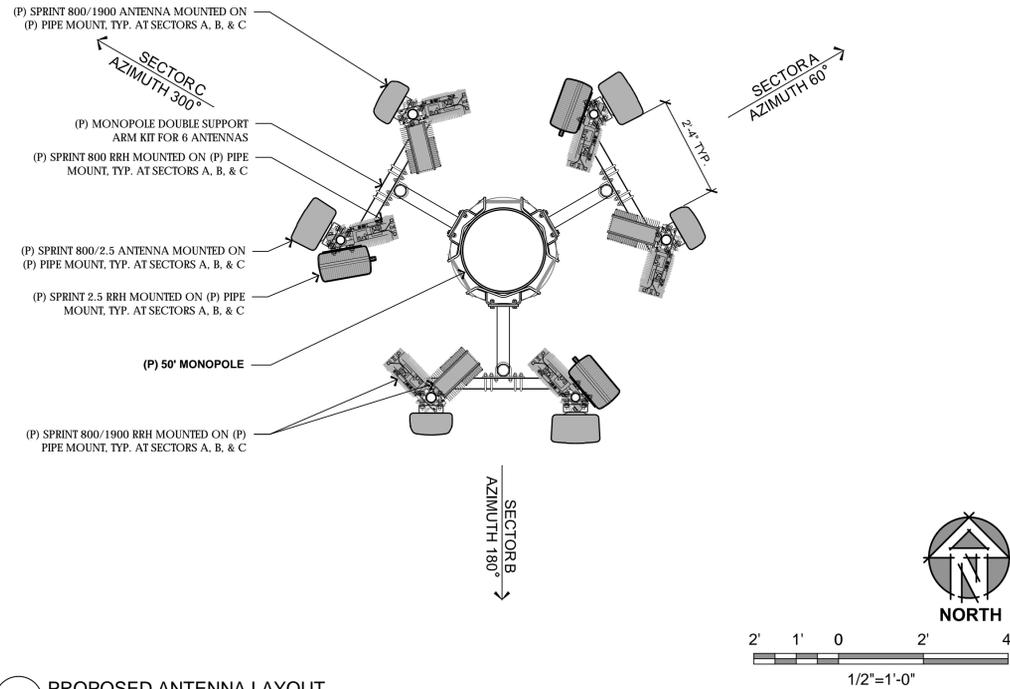
OVERALL SITE PLAN

SHEET NUMBER

**A-1**



Plot Date: 06/22/2018 5:54:54 PM File Name: 2018061603\_Precision Site Development - LLS (SF68XCSKB) - Church/Power/Building A-1 Overall Site Plan.dwg Plotted By: john.mcdonnell



19 PROPOSED ANTENNA LAYOUT  
1/2" = 1'-0"

ACRONYM LEGEND

BBU:	BATTERY BACKUP UNIT
CAB:	CABINET
CDMA:	CODE DIVISION MULTIPLE ACCESS
CMU:	CONCRETE MASONRY UNIT
(E):	EXISTING
GND:	GROUND
GPS:	GLOBAL POSITIONING SYSTEM
HVAC:	HEATING VENTILATION AIR CONDITIONING
HYB:	HYBRID LINE
MMBS:	MULTI MODAL BASE STATION
(N):	NEW
(P):	PROPOSED
PPC:	POWER PROTECTION UNIT
PRI:	LEGACY PRIMARY CABINET
PWR:	POWER
RAD:	RADIATION CENTER
RET:	REMOTE ELECTRICAL TILT
RF:	RADIO FREQUENCY
RFI:	REINFORCED FIBERGLASS PANEL
RRU:	REMOTE RADIO UNIT
TEL:	TELCO
HFC:	HYDROGEN FUEL CELL
HSM:	HYDROGEN STORAGE MODULE

GRAPHICS LEGEND

ICE BRIDGE:	
CABLE TRAY:	
WALL/PARTITION:	
FENCE:	
WOOD/IRON FENCE:	
LEASE AREA:	
POWER:	
TELCO:	
HYBRID:	

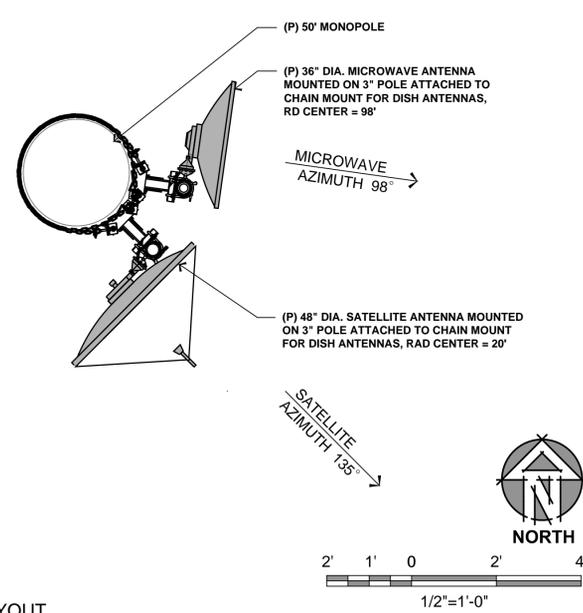
ANTENNA SCHEDULE

SECTOR	ANTENNA MODEL NO.	AZIMUTH	RAD CENTER	HYBRID	LENGTH	
A L P H A	A1	KMW ET-X-TS-70-15-62-18JR-RD	0°	52'-4"	(1)	+/- 155'-0"
	A2	COMMSCOPE DT465B-2XR	0°	52'-4"		
B E T A	B1	KMW ET-X-TS-70-15-62-18JR-RD	120°	52'-4"	(1)	+/- 155'-0"
	B2	COMMSCOPE DT465B-2XR	120°	52'-4"		
C A P P A	C1	KMW ET-X-TS-70-15-62-18JR-RD	240°	52'-4"	(1)	+/- 155'-0"
	C2	COMMSCOPE DT465B-2XR	240°	52'-4"		

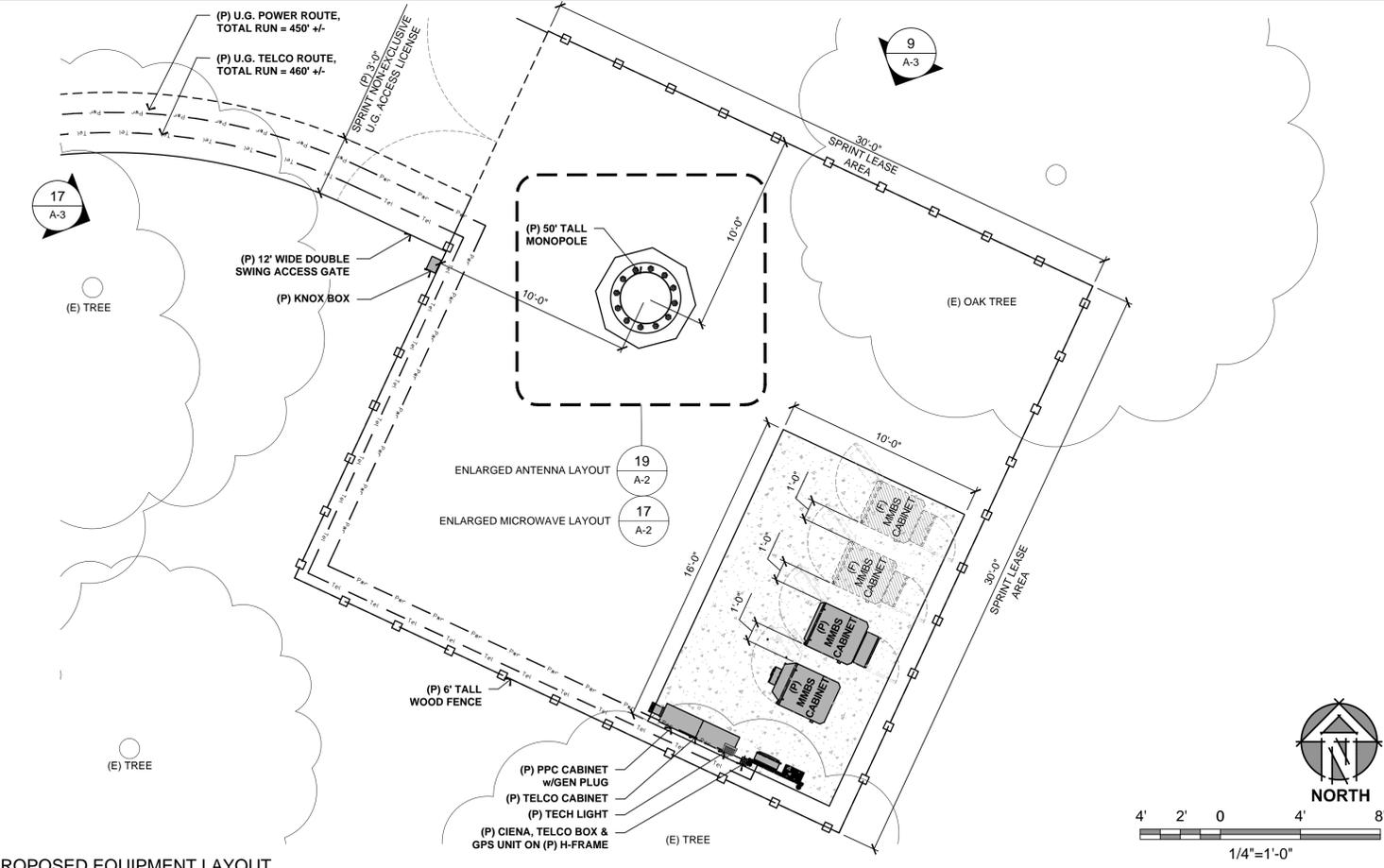
12 ANTENNA SCHEDULE  
1/2" = 1'-0"

NOTES

- CONDUIT ROUTING IS DIAGRAMMATICALLY SHOWN ON PLANS AND ARE ONLY APPROXIMATIONS. THE EXACT LOCATION AND ROUTING SHALL BE FIELD VERIFIED.
- ALL ELECTRICAL EQUIPMENT AND CONTROLLING DEVICES SHALL BE PROVIDED WITH LAMI COLD NAMEPLATES, INDICATING THE CIRCUITS ORIGIN AND ALL EQUIPMENT TERMINATIONS
- CONTRACTOR SHALL SUPPLY BREAKERS, CONDUITS AND CIRCUIT CONDUCTORS, AS REQUIRED FOR A COMPLETED SYSTEM AND SHALL BE IN COMPLIANCE WITH MANUFACTURER SPECIFICATIONS.



17 PROPOSED SATELLITE & MICROWAVE LAYOUT  
1/2" = 1'-0"



9 PROPOSED EQUIPMENT LAYOUT  
1/4" = 1'-0"

**Sprint**  
12657 Alcosta Blvd., Suite 300  
San Ramon, CA 94583

**PRECISION**  
1524 RAINBOW TROUT STREET  
ROSEVILLE, CA 95747

**Borges**  
ARCHITECTURAL GROUP  
borgesarch.com  
1478 STONE POINT DRIVE, SUITE 350  
ROSEVILLE CA 95661  
916 782 7200 TEL  
916 773 3037 FAX

PROJECT NO: T-16503-25  
DRAWN BY: D.A.G.  
CHECKED BY: B.K.W.

REV	DATE	DESCRIPTION
C	06/22/18	100% ZD SUBMITTAL
B	03/22/18	100% ZD SUBMITTAL
A	08/21/17	90% ZD SUBMITTAL

06/22/2018  
100% ZD

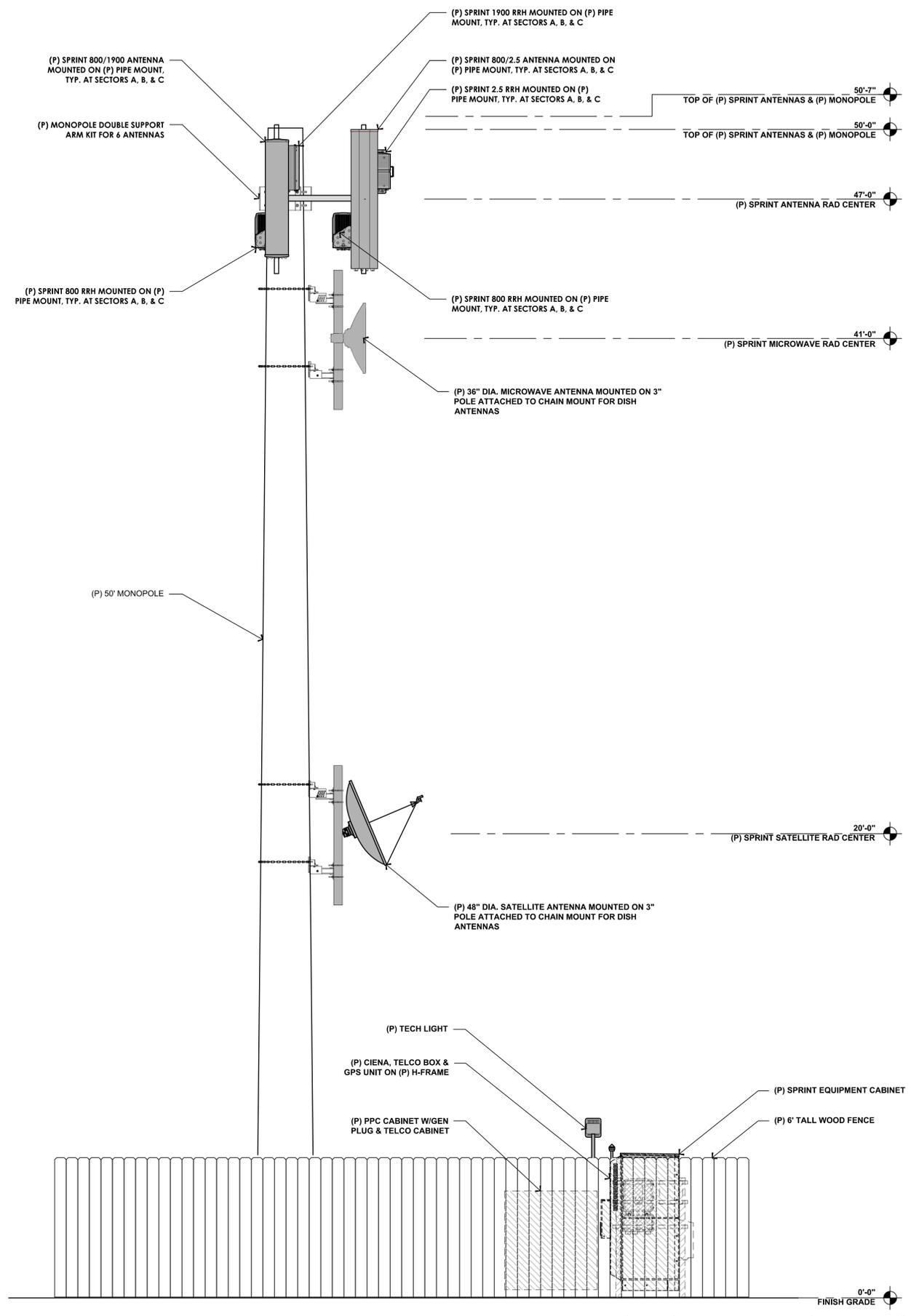
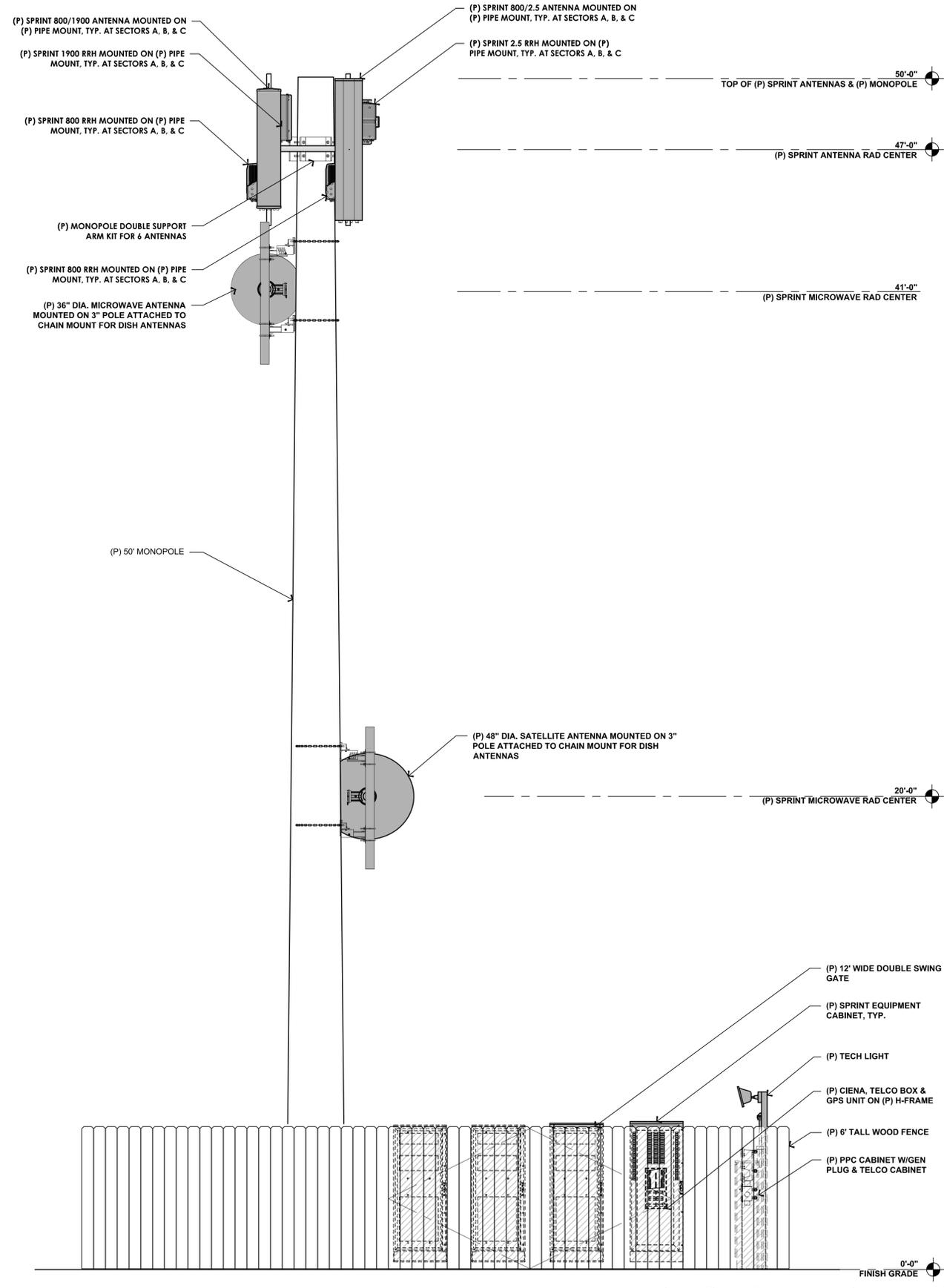
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65500 JOLON ROAD  
JOLON, CA 93928

SHEET TITLE  
ENLARGED EQUIPMENT PLANS

SHEET NUMBER  
**A-2**

Plot Date: 06/22/2018 10:50:03 PM File Name: 20180611\_16001\_Precision\_Site\_Development\_LLC@SF68XCSKB-Church@Building\_A-2\_Equipment\_Plans.dwg Plotted By: John Macdonald



9 PROPOSED SOUTHWEST ELEVATION  
3/8" = 1'-0"

17 PROPOSED NORTHWEST ELEVATION  
3/8" = 1'-0"

**Sprint**  
12657 Alcolta Blvd., Suite 300  
San Ramon, CA 94583

**PRECISION**  
1524 RAINBOW TROUT STREET  
ROSEVILLE, CA 95747

**Borges**  
borgesarch.com  
1478 STONE POINT DRIVE, SUITE 350  
ROSEVILLE CA 95661  
916 782 7200 TEL  
916 773 3037 FAX

PROJECT NO: T-16503-25  
DRAWN BY: D.A.G.  
CHECKED BY: B.K.W.

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A	08/21/17	90% ZD SUBMITTAL

REV	DATE	DESCRIPTION
C	06/22/18	100% ZD SUBMITTAL
B	03/22/18	100% ZD SUBMITTAL
A	08/21/17	90% ZD SUBMITTAL

06/22/2018  
100% ZD

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SF68XCSKB  
ST. LUKE'S EPISCOPAL CHURCH  
65500 JOLON ROAD  
JOLON, CA 93928

SHEET TITLE  
ELEVATIONS

SHEET NUMBER  
**A-3**



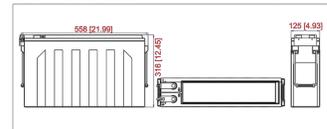
stored energy solutions for a demanding world



Model: 12NDT190

The Acme T range of front access VRLA batteries has been specifically designed for applications using 19" and 23" cabinets, especially telecoms. Reliability is assured with the patented post seal and a state-of-the-art design developed to comply with the latest IEC, British and Telcordia standards. A 12+ years design life and centralised venting system add to the suitability and flexibility of this superior range.

Dimensions-mm (inch)



Specifications

Battery Model	12NDT190
Nominal Voltage	12V
Rated Capacity	190Ah (10 hour rate) to 1.80V/cell @ 25°C (77°F)
Typical Weight	60.5kg
Internal Resistance	Approx 3.98mΩ
Temperature Ranges	Operation (maximum): -40°C to 50°C (-40°F to 122°F) Operation (recommended): 15°C to 25°C (59°F to 77°F) Storage: -20°C to 40°C (-4°F to 104°F)
Float Voltage	2.25V/cell @ 25°C (77°F)
Recommended Maximum Charging Current Limit	47.5A
Equalize and Cycle Service	2.35V-2.40V/cell @ 25°C (77°F)
Self Discharge	The residual capacity is above 90% after 90 days storage (25°C/77°F)
Terminal	M6 Female
Terminal Hardware Torque	8 ± 1.0Nm
Container Material	ABS (V0 optional)

Constant Current Discharge Characteristics Units: Amperes (25°C, 77°F)

Current (A)	1.60V	1.67V	1.70V	1.75V	1.80V	1.83V	1.85V	1.85V
Capacity (Ah)	532	498	480	456	410	374	355	339
Time (h)	334	328	322	308	283	265	252	239
Capacity (Ah)	220	216	213	205	193	184	179	173
Time (h)	162	161	160	157	150	144	138	133
Capacity (Ah)	132	131	130	129	125	122	119	116
Time (h)	76.4	75.7	75.4	74.7	73.2	71.6	69.4	67.4
Capacity (Ah)	84.2	83.6	83.3	82.6	80.9	79.4	77.2	75.2
Time (h)	30.7	30.4	30.3	30.0	29.5	28.7	28.4	28.0
Capacity (Ah)	24.3	24.1	24.0	23.8	23.6	23.3	23.0	22.8
Time (h)	19.5	19.4	19.3	19.1	18.9	18.6	18.3	18.1
Capacity (Ah)	16.8	16.7	16.6	16.5	16.2	16.0	15.8	15.6
Time (h)	10.5	10.4	10.3	10.2	10.0	9.8	9.6	9.4
Capacity (Ah)	8.72	8.60	8.50	8.40	8.20	8.00	7.80	7.60
Time (h)	8.72	8.60	8.50	8.40	8.20	8.00	7.80	7.60

Discharge Data with Constant Power Units: Watts per cell (25°C, 77°F)

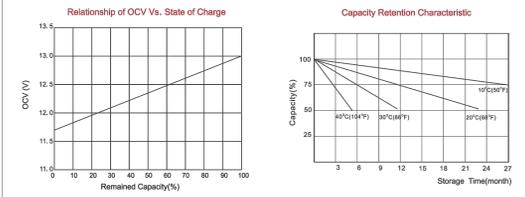
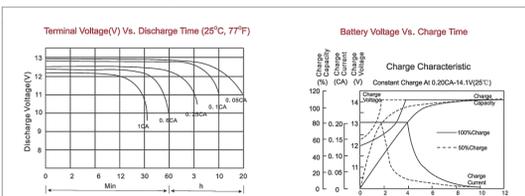
Power (W)	1.60V	1.67V	1.70V	1.75V	1.80V	1.83V	1.85V
Capacity (Ah)	928	877	846	781	718	697	683
Time (h)	616	600	588	566	535	507	483
Capacity (Ah)	305	315	314	309	300	291	285
Time (h)	269	268	267	263	256	249	244
Capacity (Ah)	159	159	158	157	154	150	147
Time (h)	113	113	112	112	110	108	105
Capacity (Ah)	88.1	87.8	87.6	87.1	86.0	85.0	83.9
Time (h)	74.2	73.9	73.6	73.1	72.1	71.0	69.8
Capacity (Ah)	63.1	62.9	62.8	62.5	61.6	60.8	60.6
Time (h)	48.5	48.3	48.2	47.9	47.6	47.4	47.1
Capacity (Ah)	36.0	35.9	35.8	35.7	35.5	35.3	35.0
Time (h)	22.1	21.9	21.8	21.5	21.2	21.0	20.7
Capacity (Ah)	18.4	18.3	18.3	18.2	18.2	18.1	18.0
Time (h)	18.4	18.3	18.3	18.2	18.2	18.1	18.0

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stored energy solutions for a demanding world



Model: 12NDT190



Charging Procedures

Application	Charge Voltage (V/Cell)			Max. Charge Current	Final Discharge Voltage V/Cell	1.80	1.70	1.55	1.30
	Temperature	Set Point	Allowable Range						
Cycle	25°C	2.40	2.35-2.40	0.25C	1.80	1.70	1.55	1.30	
Standby	25°C	2.25	2.23-2.27						

NARADA POWER SOURCE CO., LTD. 9F, Building A, No. 50 Jingguan Road, Hangzhou, China  
Tel: +86-571-56975980 Fax: +86-571-56975955  
Website: www.naradabattery.com E-mail: intl@narada.biz



12NDT190-03A-BN (Ver. 03 July 2012). Subject to revision without prior notice. E & O.E.

MATERIAL SAFETY DATA SHEET

Jan. 20, 2015

SECTION 1: PRODUCTS AND MANUFACTURE  
Product: Valve Regulated Lead Acid Battery (VRLA Battery)  
Manufacturer: NARADA POWER SOURCE CO., LTD.  
72 Jingguan Road, Qingshan Town, Lin'an Economic Development Zone, Zhejiang, China 311305  
Tel: (+86-571) 56975980 Fax: (+86-571) 56975955  
Email: intl@narada.biz Website: www.naradabattery.com

SECTION 2: HAZARDOUS COMPONENTS

COMPONENTS	%WEIGHT	TLV	LD50 ORAL	LC50 INHALATION	LC50 CONTACT
Lead (Pb, PbO <sub>2</sub> , PbSO <sub>4</sub> )	About 70%	-	(500) mg/Kg	-	-
Sulfuric Acid DILUTED SULPHURIC ACID - H <sub>2</sub> SO <sub>4</sub>	About 20%	1 mg/m <sup>3</sup>	(2,140) mg/Kg	-	-
Fiberglass Separator	About 5%	-	-	-	-
ABS or PP	About 5%	-	-	-	-

SECTION 3: PHYSICAL DATA

COMPONENTS	DENSITY	MELTING POINT	SOLLUBILITY (H <sub>2</sub> O)	ODOR	APPEARANCE
Lead	11.34	327.4°C (Boiling)	None	None	Silver-Gray Metal
Lead Sulfate	6.2	1070°C (Boiling)	40 mg/l (15°C)	None	White Powder
Lead Dioxide	9.4	290°C (Boiling)	None	None	Brown Powder
Sulfuric Acid	About 1.3	About 114°C (Boiling)	100%	Acidic	Clear Colorless Liquid
Fiberglass Sep.	-	-	SLIGHT	TOXIC	WHITE FIBROUS GLASS
ABS or PP	-	-	NONE	NO ODOR	SOLID

SECTION 4: PROTECTION

EXPOSURE	PROTECTION	COMMENTS
SKIN	Rubber gloves, Apron, Safety shoes	Protective equipment must be worn if battery is cracked or otherwise damaged.
RESPIRATORY	Respirator (for lead)	A respirator should be worn during reclaim operations if the TLV exceeded.
EYES	Safety goggles, Face Shield	

SECTION 5: FLAMMABILITY DATA

COMPONENTS	FLASHPOINT	EXPLOSIVE LIMITS	COMMENTS
Lead	None	None	
Sulfuric Acid	None	None	
Hydrogen	259°C	4% - 74.2%	Sealed batteries can emit hydrogen only if over charged (float voltage > 2.4 VPC). The gas enters the air through the vent caps. To avoid the chance of a fire or explosion, keep sparks and other sources of ignition away from the battery. Extinguishing Media: Dry chemical, foam, CO <sub>2</sub> .
Fiberglass Sep.	-	-	Toxic vapors may be released. In case of fire: wear self-contained breathing apparatus.
478 Polystyrene	None	-	Temperatures over 300 °C (572°F) may release combustible gases. In case of fire: wear positive pressure self-contained breathing apparatus.

SECTION 6: REACTIVITY DATA

COMPONENT	Lead/lead compounds
STABILITY	Stable
INCOMPATIBILITY	Potassium, carbides, sulfides, peroxides, phosphorus, sulfur.
DECOMPOSITION PRODUCTS	Oxides of lead and sulfur.
CONDITIONS TO AVOID	High temperature, Sparks and other sources of ignition.
COMPONENT	Sulfuric Acid
STABILITY	Stable at all temperatures
POLYMERIZATION	Will not polymerize
INCOMPATIBILITY	Reactive metals, strong bases, most organic compounds
DECOMPOSITION	Sulfuric dioxide, trioxide, hydrogen sulfide, hydrogen

NARADA POWER SOURCE CO., LTD.  
72 Jingguan Road, Qingshan Town, Lin'an Economic Development Zone, Zhejiang, China 311305  
Tel: (+86-571) 56975980 Fax: (+86-571) 56975955  
Email: intl@narada.biz Website: www.naradabattery.com

MATERIAL SAFETY DATA SHEET

Jan. 20, 2015

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Manufacturer: NARADA POWER SOURCE CO., LTD.  
72 Jingguan Road, Qingshan Town, Lin'an Economic Development Zone, Zhejiang, China 311305  
Tel: (+86-571) 56975980 Fax: (+86-571) 56975955  
Email: intl@narada.biz Website: www.naradabattery.com

SECTION 2: HAZARDOUS COMPONENTS

COMPONENTS	%WEIGHT	TLV	LD50 ORAL	LC50 INHALATION	LC50 CONTACT
Lead (Pb, PbO <sub>2</sub> , PbSO <sub>4</sub> )	About 70%	-	(500) mg/Kg	-	-
Sulfuric Acid DILUTED SULPHURIC ACID - H <sub>2</sub> SO <sub>4</sub>	About 20%	1 mg/m <sup>3</sup>	(2,140) mg/Kg	-	-
Fiberglass Separator	About 5%	-	-	-	-
ABS or PP	About 5%	-	-	-	-

SECTION 3: PHYSICAL DATA

COMPONENTS	DENSITY	MELTING POINT	SOLLUBILITY (H <sub>2</sub> O)	ODOR	APPEARANCE
Lead	11.34	327.4°C (Boiling)	None	None	Silver-Gray Metal
Lead Sulfate	6.2	1070°C (Boiling)	40 mg/l (15°C)	None	White Powder
Lead Dioxide	9.4	290°C (Boiling)	None	None	Brown Powder
Sulfuric Acid	About 1.3	About 114°C (Boiling)	100%	Acidic	Clear Colorless Liquid
Fiberglass Sep.	-	-	SLIGHT	TOXIC	WHITE FIBROUS GLASS
ABS or PP	-	-	NONE	NO ODOR	SOLID

SECTION 4: PROTECTION

EXPOSURE	PROTECTION	COMMENTS
SKIN	Rubber gloves, Apron, Safety shoes	Protective equipment must be worn if battery is cracked or otherwise damaged.
RESPIRATORY	Respirator (for lead)	A respirator should be worn during reclaim operations if the TLV exceeded.
EYES	Safety goggles, Face Shield	

SECTION 5: FLAMMABILITY DATA

COMPONENTS	FLASHPOINT	EXPLOSIVE LIMITS	COMMENTS
Lead	None	None	
Sulfuric Acid	None	None	
Hydrogen	259°C	4% - 74.2%	Sealed batteries can emit hydrogen only if over charged (float voltage > 2.4 VPC). The gas enters the air through the vent caps. To avoid the chance of a fire or explosion, keep sparks and other sources of ignition away from the battery. Extinguishing Media: Dry chemical, foam, CO <sub>2</sub> .
Fiberglass Sep.	-	-	Toxic vapors may be released. In case of fire: wear self-contained breathing apparatus.
478 Polystyrene	None	-	Temperatures over 300 °C (572°F) may release combustible gases. In case of fire: wear positive pressure self-contained breathing apparatus.

SECTION 6: REACTIVITY DATA

COMPONENT	Lead/lead compounds
STABILITY	Stable
INCOMPATIBILITY	Potassium, carbides, sulfides, peroxides, phosphorus, sulfur.
DECOMPOSITION PRODUCTS	Oxides of lead and sulfur.
CONDITIONS TO AVOID	High temperature, Sparks and other sources of ignition.
COMPONENT	Sulfuric Acid
STABILITY	Stable at all temperatures
POLYMERIZATION	Will not polymerize
INCOMPATIBILITY	Reactive metals, strong bases, most organic compounds
DECOMPOSITION	Sulfuric dioxide, trioxide, hydrogen sulfide, hydrogen

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PROJECT NO: T-16503-25  
DRAWN BY: D.A.G.  
CHECKED BY: B.K.W.

REV	DATE	DESCRIPTION
C	06/22/18	100% ZD SUBMITTAL
B	03/22/18	100% ZD SUBMITTAL
A	08/21/17	90% ZD SUBMITTAL

06/22/2018  
100% ZD  
LICENSED ARCHITECT  
RICHARD SA BARNETT  
No. C11538  
Exp. 09-30-19  
STATE OF CALIFORNIA  
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SF68XCSKB  
ST. LUKE'S EPISCOPAL CHURCH  
65500 JOLON ROAD  
JOLON, CA 93928

SHEET TITLE  
BATTERY SPECIFICATIONS

SHEET NUMBER  
A-4.2



PRODUCTS	CONDITIONS TO AVOID
	Prohibit smoking, sparks, etc. from battery charging area. Avoid mixing acid with other chemicals.

SECTION 7: CONTROL MEASURES

- Store lead/acid batteries with adequate ventilation. Room ventilation is required for batteries utilized for standby power generation. Never recharge batteries in an unventilated, enclosed space.
- Do not remove vent caps. Follow shipping and handling instructions that are applicable to the battery type. To avoid damage to terminals and seals, do not double-stack industrial batteries.

STEPS TO TAKE IN CASE OF LEAKS OR SPILLS

If sulfuric acid is spilled from a battery, neutralize the acid with sodium bicarbonate (baking soda), sodium carbon (soda ash), or calcium oxide (lime).  
Flush the area with water discard to the sewage systems. Do not allow unneutralized acid into the sewage system.

WASTE DISPOSAL METHOD:

Neutralized acid may be flushed down the sewer. Spent batteries must be treated as hazardous waste and disposed of according to local state, and federal regulations. A copy of this material safety data must be supplied to any scrap dealer or secondary smelter with battery.

ELECTRICAL SAFETY

Due to the battery's low internal resistance and high power density. High levels of short circuit can be developed across the battery terminals. Do not rest tools or cables on the battery. Use insulated tools only.  
Follow all installation instruction and diagrams when installing or maintaining battery systems.

SECTION 8: HEALTH HAZARD DATA

LEAD: The toxic effects of lead are accumulative and slow to appear. It affects the kidneys, reproductive, and central nervous system.  
The symptoms of lead overexposure are anemia, vomiting, headache, stomach pain (lead colic), dizziness, loss of appetite, and muscle and joint pain. Exposure to lead from a battery most often occurs during lead reclaim operations through the breathing or ingestion of lead dusts and fumes.  
THIS DATA MUST BE PASSED TO ANY SCRAP OR SMELTER WHEN A BATTERY IS RESOLD.

SULFURIC ACID: Sulfuric acid is a strong corrosive. Contact with acid can cause severe burns on the skin and in the eyes. Ingestion of sulfuric acid will cause GI tract burns. Acid can be released if the battery case is damaged or if the vents are tampered with.

FIBERGLASS SEPARATOR: Fibrous glass is an irritant of the upper respiratory tract, skin and eyes. For exposure up to 10F/CC use MSA Comfort with type H filter. Above 10F/CC up to 50F/CC use Ultra-Twin with type H filter.

NTP or OSHA does not consider this product carcinogenic.

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SECTION 9: SULFURIC ACID PRECAUTIONS

INHALATION: Acid mist form formation process may cause respiratory irritation, remove from exposure and apply oxygen if breathing is difficult.  
SKIN CONTACT: Acid may cause irritation, burns or ulceration. Flush with plenty of soap and water, remove contaminated clothing, and see physician if contact area is large or if blisters form.  
EYE CONTACT: Acid may cause severe irritation, burns, cornea damage and blindness. Call physician immediately and flush with water until physician arrives.  
INGESTION: Acid may cause irritation of mouth, throat, esophagus and stomach. Call physician. If patient is conscious, flush mouth with water, have the patient drink milk or sodium bicarbonate solution.

DO NOT GIVE ANYTHING TO AN UNCONSCIOUS PERSON.

SECTION 10: TRANSPORTATION REGULATIONS

Acceptable modes of transportation: air, rail, road and water.  
Batteries must be protected so as to prevent short circuit and must be securely packed.

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