



ATTACHMENT A - Exhibit B - Project Plans

FIRSTNET/AT&T SITE ID: CCL05539
FIRSTNET/AT&T SITE NAME: ALVARADO ST & CALLAWAY ST
FA LOCATION CODE: 15521709
USID: 314957
PACE #: MRSFR077581

PSTC SITE #: CANC-SLEAN01
SITE ADDRESS: 440 PERALTA AVENUE
COUNTY: SAN LEANDRO, CA 94577
SITE TYPE: ALAMEDA
TOWER HEIGHT: MONOPINE
80'-0"

1903 WRIGHT PLACE, SUITE 140
CARLSBAD, CA 92008

5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

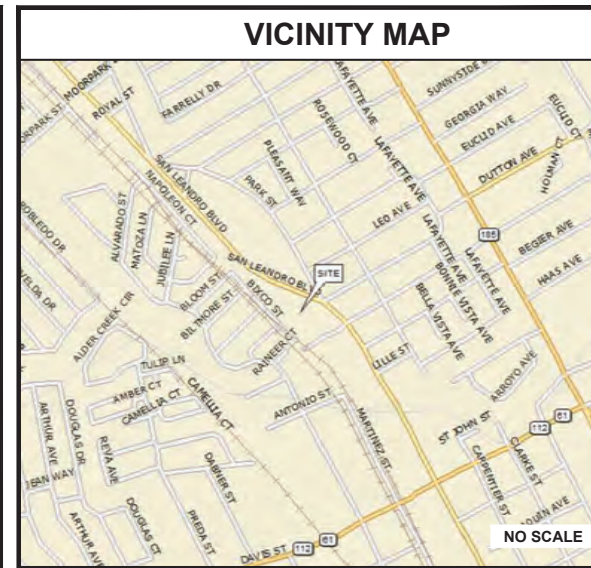
TOWER ENGINEERING PROFESSIONALS
 4710 E ELWOOD ST, STE 9
 PHOENIX, AZ 85040
 OFFICE: (480) 285-0036
 www.tepgroup.net

FIRSTNET/AT&T ID: CCL05539
ALVARADO ST & CALLAWAY ST
PSTC #: CANC-SLEAN01
440 PERALTA
440 PERALTA AVENUE
SAN LEANDRO, CA 94577
(ALAMEDA COUNTY)
PROPOSED 80'-0"
MONOPINE TOWER

SITE INFORMATION	
PSTC SITE NAME:	440 PERALTA
SITE ADDRESS:	440 PERALTA AVENUE SAN LEANDRO, CA 94577
COUNTY:	ALAMEDA
MAP/PARCEL #:	75-225-1-4
AREA OF CONSTRUCTION:	1,225 SQ FT
LATITUDE:	N 37° 43' 41.56" (37.728211°)
LONGITUDE:	W 122° 09' 56.26" (-122.165657°)
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	47±
CURRENT ZONING:	DA-2
JURISDICTION:	CITY OF SAN LEANDRO
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	V-B
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	LEE, DONALD R & JO A TRS 10217 BUCKMEADOWS DRIVE OAKLAND, CA 95361
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:	AT&T

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SHEET #	SHEET DESCRIPTION	REV
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LS-1	SITE SURVEY	O
LS-2	SITE SURVEY	O
LS-3	NOTES	O
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C-1.2	EXISTING SITE PLAN	H
C-1.3	PROPOSED SITE PLAN	H
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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.



DIRECTIONS FROM 5005 EXECUTIVE DRIVE: TURN RIGHT ONTO EXECUTIVE PARKWAY AND KEEP LEFT. TURN LEFT ONTO CAMINO RAMON AND KEEP LEFT. TURN LEFT ONTO NORRIS CANYON ROAD. STAY ON NORRIS CANYON ROAD UNTIL IT ENDS, TURNING LEFT ONTO CROW CANYON ROAD. STAY ON CROW CANYON ROAD UNTIL YOU REACH EAST CASTRO VALLEY BOULEVARD AND TURN LEFT. TURN RIGHT ONTO I-580 TOWARD OAKLAND. TAKE EXIT 30 FOR FOOTHILL BOULEVARD / MCARTHUR BOULEVARD. TURN LEFT ONTO LEWIS AVENUE AND TURN RIGHT ONCE YOU REACH DUTTON AVENUE. STAY ON DUTTON AVENUE AND CONTINUE ONTO BEST AVENUE. TURN RIGHT ONTO SAN LEANDRO BOULEVARD AND TAKE AN IMMEDIATE LEFT INTO THE PARKING LOT FOR SAN LEANDRO ELECTRIC SUPPLY. SITE IS IN THE BACK OF THE PARKING LOT ON THE SOUTHWEST CORNER OF THE PROPERTY.

PROJECT TEAM	
PUBLIC SAFETY TOWERS, LLC CONTACT:	1903 WRIGHT PLACE, SUITE 140 CARLSBAD, CA 92008 STEPHANIE VANDERVEEN S.VANDERVEEN@PSTCTOWERS.COM (661) 755-1471
TEP PROJECT TEAM:	TOWER ENGINEERING PROFESSIONALS 4710 E ELWOOD ST, STE 9 PHOENIX, AZ 85040
SITE ACQUISITION CONTACT:	CAROL KINCHELOE CKINCHELOE@TEPGROUP.NET (231) 409-5439
CIVIL ENGINEER:	STEPHEN BUNTING, PE SBUNTING@TEPGROUP.NET (919) 661-3530
ELECTRICAL ENGINEER:	MARK QUAKENBUSH, PE MQUAKENBUSH@TEPGROUP.NET (919) 661-6351
AT&T PROJECT TEAM:	
RF ENGINEER:	ANTHONY CRUZ AC8314@ATT.COM

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	<ul style="list-style-type: none"> • INSTALL (1) 80'-0" MONOPINE TOWER • INSTALL (12) ANTENNAS ON (9) MOUNTS • INSTALL (18) RADIOS • INSTALL (3) DC9 FIBER SQUIDS • INSTALL (9) DC POWER TRUNKS • INSTALL (3) FIBER TRUNKS • INSTALL (3) SECTOR MOUNTS
GROUND SCOPE OF WORK	<ul style="list-style-type: none"> • INSTALL 33'-0"x33'-0" CMU WALLED COMPOUND • INSTALL (1) 600A GUTTER • INSTALL (1) 200A METER • INSTALL (1) 17'-7"x10'-4" CONCRETE PAD • INSTALL (1) WALK-UP-CABINET (WUC) • INSTALL (1) 30 KW DIESEL GENERATOR • INSTALL (1) GROUND LEVEL DC50 SPD • INSTALL (1) 200A PTLT WITH CAMLOC • INSTALL (1) 30"x30"x12" HOFFMAN BOX WITH CIENA ABOVE • INSTALL (1) 50"x52" CONCRETE PAD FOR PRIMARY TRANSFORMER • INSTALL (8) BATTERIES
HAZARDOUS MATERIALS	<ul style="list-style-type: none"> • ELECTROLYTE IN BATTERIES (DETAILS ON C-6)

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	2022 CBC/2021 IBC
MECHANICAL	2022 CMC/2021 UMC
ELECTRICAL	2022 CEC/2020 NEC
STRUCTURAL	EIA/TIA-222-H
REFERENCE DOCUMENTS:	
RFDS VERSION: 1.02 DATE UPDATED: 10/19/2022	
CALL CALIFORNIA ONE CALL (800) 227-2600 CALL 3 WORKING DAYS BEFORE YOU DIG!	

ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	QA
D	12-09-22	550	ZONING	HMM
E	01-10-23	550	ZONING	HMM
F	06-03-23	CAM	ZONING	HMM
G	11-16-23	SJA	ZONING	HMM
H	07-18-24	GSM	ZONING	HMM

SEAL:

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: T-1
REVISION: H

TEP #: 314190.336174

PROJECT NOTES:

- ALL REFERENCES MADE TO OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED PUBLIC SAFETY TOWERS, LLC OR ITS DESIGNATED REPRESENTATIVE.
- 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.
- THE STRUCTURE SHALL BE DESIGNED IN ACCORDANCE WITH ANSI/TIA-222-H AND CONFORM TO THE REQUIREMENTS OF THE 2022 CALIFORNIA BUILDING CODE.
- WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE 2022 CALIFORNIA BUILDING CODE.
- 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.
- ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTION SHALL BE FOLLOWED EXACTLY AND SHALL SUPERSEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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 SHALL BE REWORKED OR REPLACED.
- 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.
- 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.

- ANY BUILDINGS ON THIS SITE ARE INTENDED TO SHELTER EQUIPMENT WHICH WILL ONLY BE PERIODICALLY MAINTAINED AND ARE NOT INTENDED FOR HUMAN OCCUPANCY.
- TEMPORARY FACILITIES FOR PROTECTION OF TOOLS AND EQUIPMENT SHALL CONFORM TO LOCAL REGULATIONS AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- 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.
- THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITY SERVICES TO VERIFY LOCATIONS OF EXISTING UTILITIES AND REQUIREMENTS FOR NEW UTILITY CONNECTIONS PRIOR TO EXCAVATING.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL PROVIDE DAILY UPDATES IN THE FORM OF WRITTEN NOTIFICATION VIA EMAIL OR APP PHOTOS TO THE BOINGO CONSTRUCTION MANAGER.

UTILITY NOTES:

- 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.
- ALL UTILITY RELATED WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE UTILITY REQUIREMENTS. FIELD TO VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL CONTACT UTILITIES AND LOCATOR SERVICE A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE TRENCHING AND CONDUITS AS SHOWN OR AS REQUIRED BY LOCAL UTILITY.
- NO PENETRATIONS TO THE TOWER FOUNDATION OF ANY KIND.



PUBLIC SAFETY TOWERS
COMPANY

1903 WRIGHT PLACE, SUITE 140
CARLSBAD, CA 92008



AT&T

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440 PERALTA


440 PERALTA AVENUE
SAN LEANDRO, CA 94577
(ALAMEDA COUNTY)

PROPOSED 80'-0"
MONOPINE TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
D	12-09-22	SSO	ZONING	HMM
E	01-10-23	SSO	ZONING	HMM
F	06-03-23	CAM	ZONING	HMM
G	11-16-23	SJA	ZONING	HMM
H	07-18-24	GSM	ZONING	HMM

SEAL:



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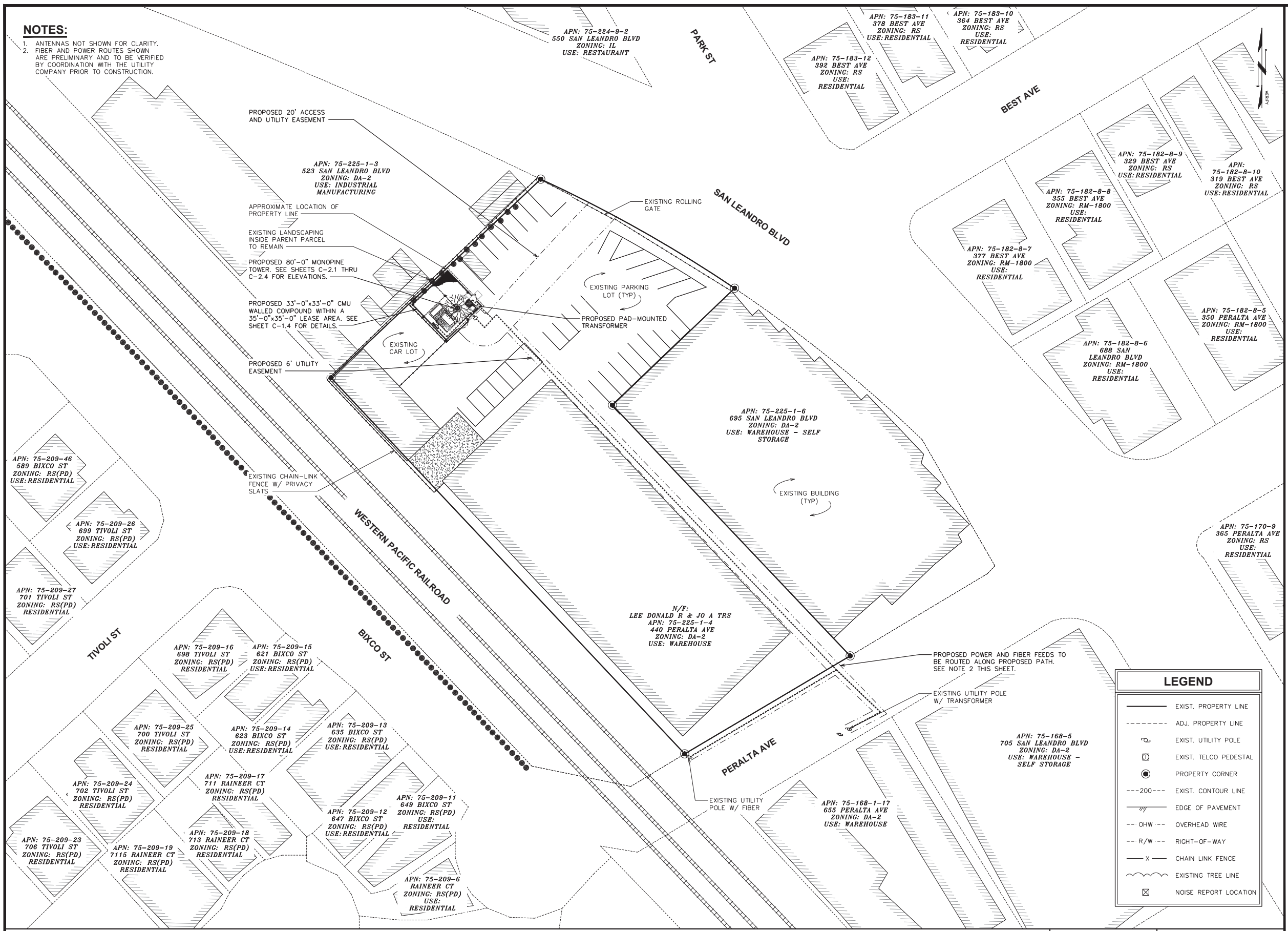
SHEET TITLE:

GENERAL NOTES

SHEET NUMBER: **GN-1** **REVISION:** **H**

TEP #: 314190.336174

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.



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SEAL:

ZONING
DO NOT USE FOR CONSTRUCTION

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SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
C-1.1

REVISION:
H

TEP #: 314190.336174

LEGEND

	EXIST. PROPERTY LINE
	ADJ. PROPERTY LINE
	EXIST. UTILITY POLE
	EXIST. TELCO PEDESTAL
	PROPERTY CORNER
	EXIST. CONTOUR LINE
	EDGE OF PAVEMENT
	OVERHEAD WIRE
	RIGHT-OF-WAY
	CHAIN LINK FENCE
	EXISTING TREE LINE
	NOISE REPORT LOCATION

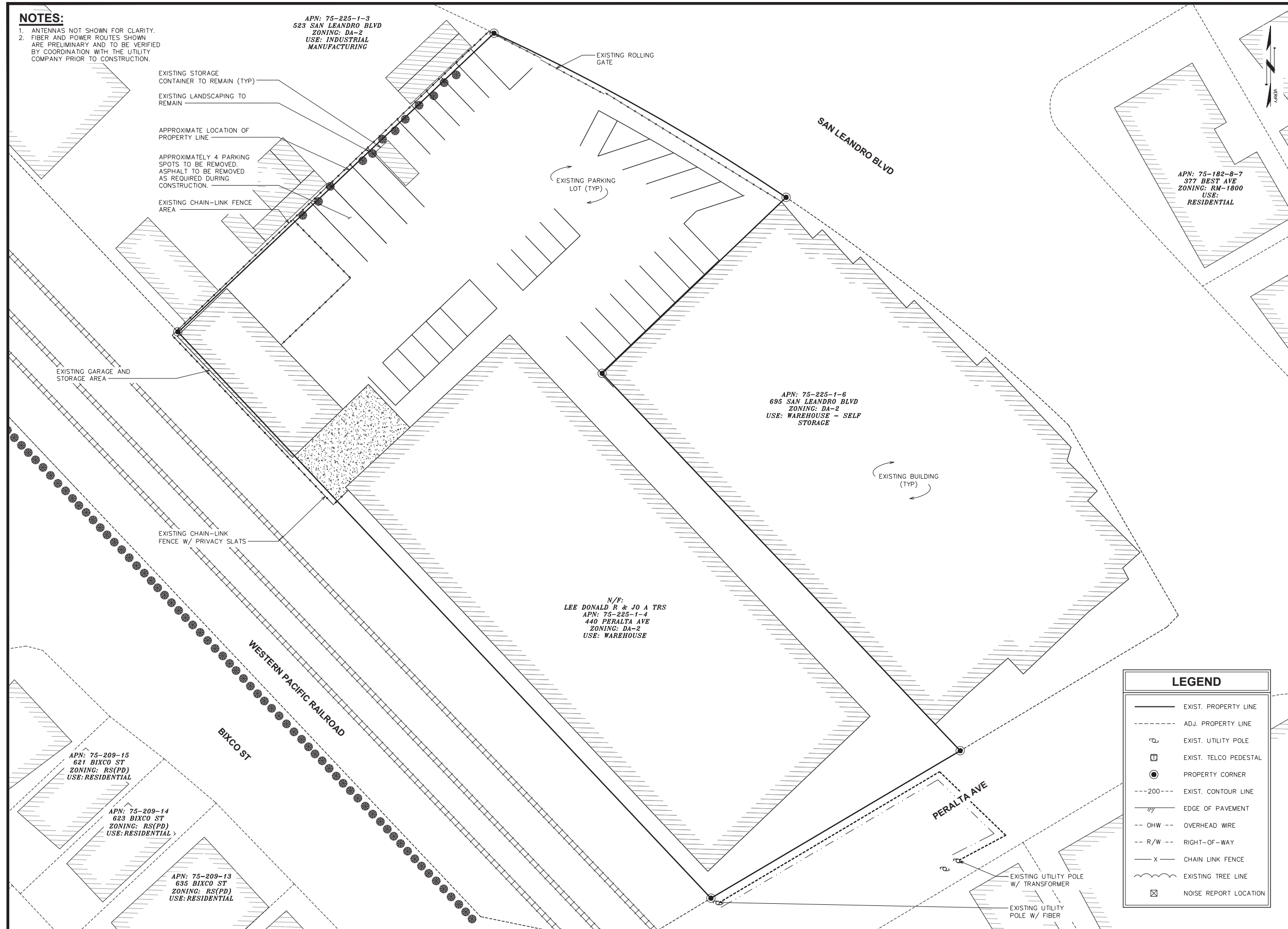
1 OVERALL SITE PLAN

SCALE: 1" = 30' (24x36)
 SCALE: 1" = 60' (11x17)
 0 30 60
 SCALE IN FEET

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APN: 75-225-1-3
523 SAN LEANDRO BLVD
ZONING: DA-2
USE: INDUSTRIAL
MANUFACTURING



EXISTING GARAGE AND STORAGE AREA

EXISTING STORAGE CONTAINER TO REMAIN (TYP)
EXISTING LANDSCAPING TO REMAIN

APPROXIMATE LOCATION OF PROPERTY LINE

APPROXIMATELY 4 PARKING SPOTS TO BE REMOVED. ASPHALT TO BE REMOVED AS REQUIRED DURING CONSTRUCTION.

EXISTING CHAIN-LINK FENCE AREA

EXISTING CHAIN-LINK FENCE W/ PRIVACY SLATS

EXISTING ROLLING GATE

EXISTING PARKING LOT (TYP)

SAN LEANDRO BLVD

APN: 75-225-1-6
695 SAN LEANDRO BLVD
ZONING: DA-2
USE: WAREHOUSE - SELF STORAGE

EXISTING BUILDING (TYP)

N/F:
LEE DONALD R & JO A TRS
APN: 75-225-1-4
440 PERALTA AVE
ZONING: DA-2
USE: WAREHOUSE

WESTERN PACIFIC RAILROAD
BIXCO ST

PERALTA AVE

APN: 75-209-15
621 BIXCO ST
ZONING: RS(PD)
USE: RESIDENTIAL

APN: 75-209-14
623 BIXCO ST
ZONING: RS(PD)
USE: RESIDENTIAL

APN: 75-209-13
635 BIXCO ST
ZONING: RS(PD)
USE: RESIDENTIAL

EXISTING UTILITY POLE W/ TRANSFORMER

EXISTING UTILITY POLE W/ FIBER

LEGEND

- EXIST. PROPERTY LINE
- - - ADJ. PROPERTY LINE
- ⊙ EXIST. UTILITY POLE
- ⊕ EXIST. TELCO PEDESTAL
- PROPERTY CORNER
- - -200- - - EXIST. CONTOUR LINE
- /// EDGE OF PAVEMENT
- - OHW - - OVERHEAD WIRE
- - R/W - - RIGHT-OF-WAY
- x - CHAIN LINK FENCE
- ~ EXISTING TREE LINE
- ⊠ NOISE REPORT LOCATION

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SHEET TITLE:
EXISTING SITE PLAN

SHEET NUMBER: **C-1.2** REVISION: **H**

TEP #: 314190.336174

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APN: 75-225-1-3
 523 SAN LEANDRO BLVD
 ZONING: DA-2
 USE: INDUSTRIAL MANUFACTURING

APN: 75-182-8-7
 377 BEST AVE
 ZONING: RM-1800
 USE: RESIDENTIAL

APN: 75-225-1-6
 695 SAN LEANDRO BLVD
 ZONING: DA-2
 USE: WAREHOUSE - SELF STORAGE

N/F:
 LEE DONALD R & JO A TRS
 APN: 75-225-1-4
 440 PERALTA AVE
 ZONING: DA-2
 USE: WAREHOUSE

APN: 75-209-15
 621 BIXCO ST
 ZONING: RS(PD)
 USE: RESIDENTIAL

APN: 75-209-14
 623 BIXCO ST
 ZONING: RS(PD)
 USE: RESIDENTIAL

APN: 75-209-13
 635 BIXCO ST
 ZONING: RS(PD)
 USE: RESIDENTIAL

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SEAL:

ZONING
DO NOT USE FOR CONSTRUCTION

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SHEET TITLE:
FINAL SITE PLAN

SHEET NUMBER:
C-1.3

REVISION:
H

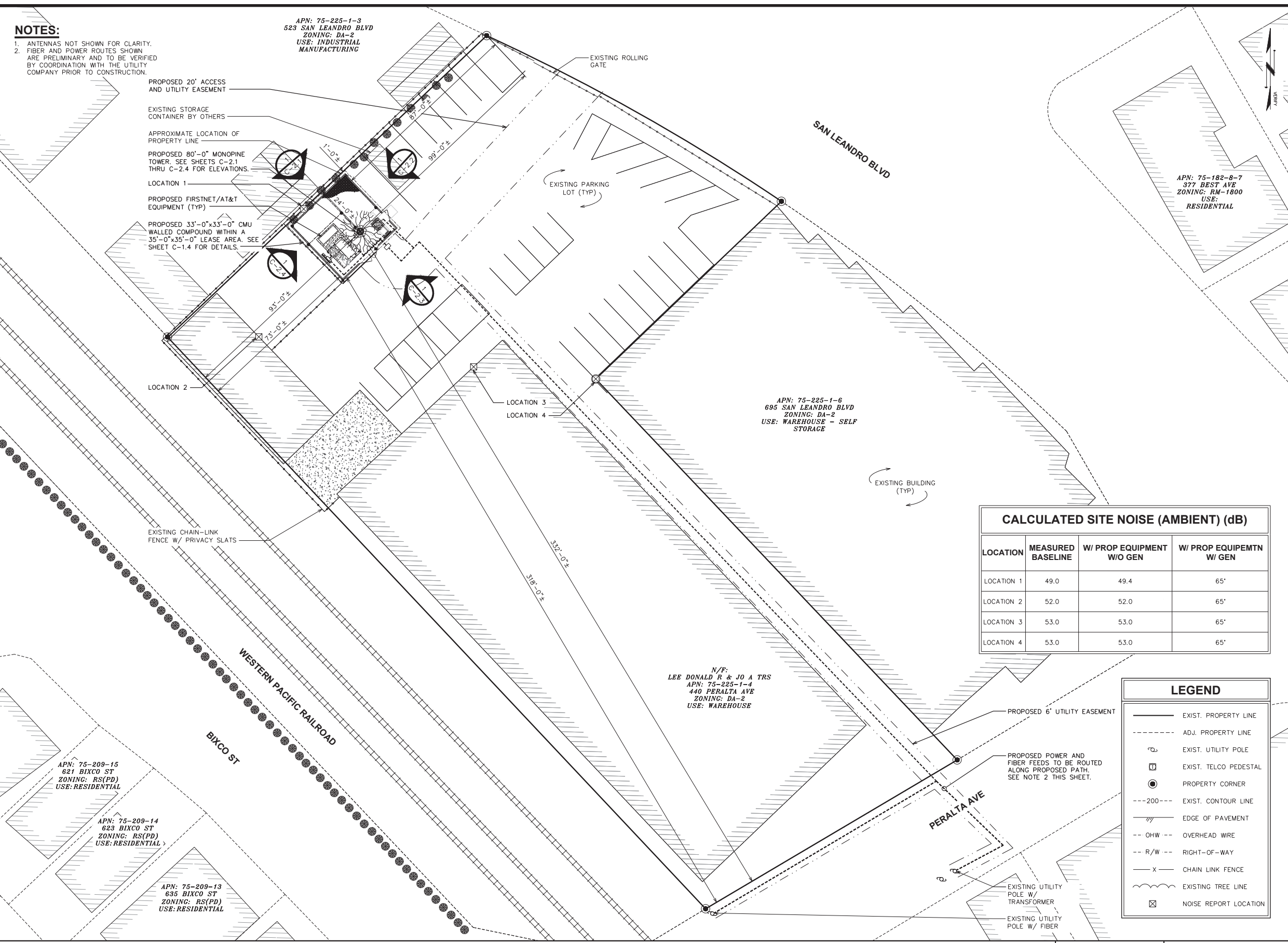
TEP #: 314190.336174

CALCULATED SITE NOISE (AMBIENT) (dB)

LOCATION	MEASURED BASELINE	W/ PROP EQUIPMENT W/O GEN	W/ PROP EQUIPMTN W/ GEN
LOCATION 1	49.0	49.4	65'
LOCATION 2	52.0	52.0	65'
LOCATION 3	53.0	53.0	65'
LOCATION 4	53.0	53.0	65'

LEGEND

	EXIST. PROPERTY LINE
	ADJ. PROPERTY LINE
	EXIST. UTILITY POLE
	EXIST. TELCO PEDESTAL
	PROPERTY CORNER
	EXIST. CONTOUR LINE
	EDGE OF PAVEMENT
	OHW -- OVERHEAD WIRE
	R/W -- RIGHT-OF-WAY
	CHAIN LINK FENCE
	EXISTING TREE LINE
	NOISE REPORT LOCATION



1 FINAL OVERALL SITE PLAN

SCALE: 1" = 20' (24x36)
 SCALE: 1" = 40' (11x17)
 SCALE IN FEET

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.
4. NO ADDITIONAL LIGHTING PROPOSED FOR TOWER OR COMPOUND APART FROM PROPOSED WORKLIGHT ON H-FRAME.
5. LANDSCAPING NOT SHOWN ON THIS SHEET FOR CLARITY. REFER TO SHEETS C-1.3 AND C-2.1-4 FOR LANDSCAPING DETAILS.

PROPOSED PLANTER WITH TRELIS CONTAINING LIVING VINES FOR SCREENING ALONG NORTHEASTERN COMPOUND WALL

PROPOSED GRAVEL WITHIN COMPOUND

PROPOSED CABLE DOG HOUSE

PROPOSED LEASE AREA FOR FUTURE CARRIERS (TYP OF 2)

PROPOSED FIRSTNET/AT&T 106'x38'x84" GENERATOR

PROPOSED 435 SQ. FT FIRSTNET/AT&T LEASE AREA

PROPOSED 33'-0"x33'-0" CMU WALLED COMPOUND

PROPOSED 35'-0"x35'-0" PSTC LEASE AREA

PROPOSED ACCESS GATE TO MEET NEC CLEARANCES IF STEP-DOWN TRANSFORMER IS REQUIRED BY PG&E

PROPOSED PG&E 50"x52" PAD MOUNTED TRANSFORMER IF DEEMED NECESSARY BY PG&E ESTIMATION. TRANSFORMER TO BE INSTALLED BY PG&E. PAD TO BE INSTALLED BY APPLICANT.

REQUIRED 36" NEC CLEARANCE (TYP)

PROPOSED H-FRAME WITH 600A GUTTER AND 200A METER

REQUIRED FIBER HANDHOLE

PROPOSED FIBER ROUTE FROM PROPOSED HANDHOLE TO PROPOSED FIBER BOX

PROPOSED POWER ROUTE FROM PROPOSED METER TO PROPOSED WALK-UP-CABINET

PROPOSED 80'-0" MONOPINE TOWER. SEE SHEETS C-2.1 THROUGH C-2.4 FOR ELEVATIONS.

PROPOSED FIRSTNET/AT&T CABLES TO BE ROUTED UNDERGROUND TO DOG HOUSE

PROPOSED SIGNAGE

PROPOSED 12'-0" WIDE ACCESS GATE

PROPOSED FIRSTNET/AT&T 200A PTLC WITH CAMLOC

PROPOSED FIRSTNET/AT&T EQUIPMENT INSIDE WUC: (8) BATTERIES

PROPOSED FIRSTNET/AT&T 102"x75" WALK-UP-CABINET (WUC)

PROPOSED FIRSTNET/AT&T GPS ANTENNA

PROPOSED KEYBOX TO BE INSTALLED FOR ACCESS TO COMPOUND

PROPOSED 17'-7"x10'-4" FIRSTNET/AT&T CONCRETE PAD

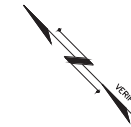
PROPOSED FIRSTNET/AT&T GROUND LEVEL 40"x52.24"x9" DC50 SPD

PROPOSED FIBER ROUTE FROM PROPOSED FIBER BOX TO PROPOSED WALK-UP-CABINET

PROPOSED FIRSTNET/AT&T 30"x30"x12" HOFFMAN BOX WITH CIENA ON PROPOSED H-FRAME

PROPOSED FIRSTNET/AT&T WORKLIGHT

PROPOSED FIRE EXTINGUISHER. SEE SHEET C-7 FOR DETAILS.



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

AT&T
 5005 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

FIRSTNET/AT&T ID: CCL05539
ALVARADO ST & CALLAWAY ST
PSTC #: CANC-SLEAN01
440 PERALTA
440 PERALTA AVENUE
SAN LEANDRO, CA 94577
(ALAMEDA COUNTY)
PROPOSED 80'-0" MONOPINE TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
D	12-09-22	550	ZONING	HMM
E	01-10-23	550	ZONING	HMM
F	06-03-23	CAM	ZONING	HMM
G	11-16-23	SJA	ZONING	HMM
H	07-18-24	GSM	ZONING	HMM

SEAL:

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SHEET TITLE:
COMPOUND LAYOUT

SHEET NUMBER:
C-1.4

REVISION:
H

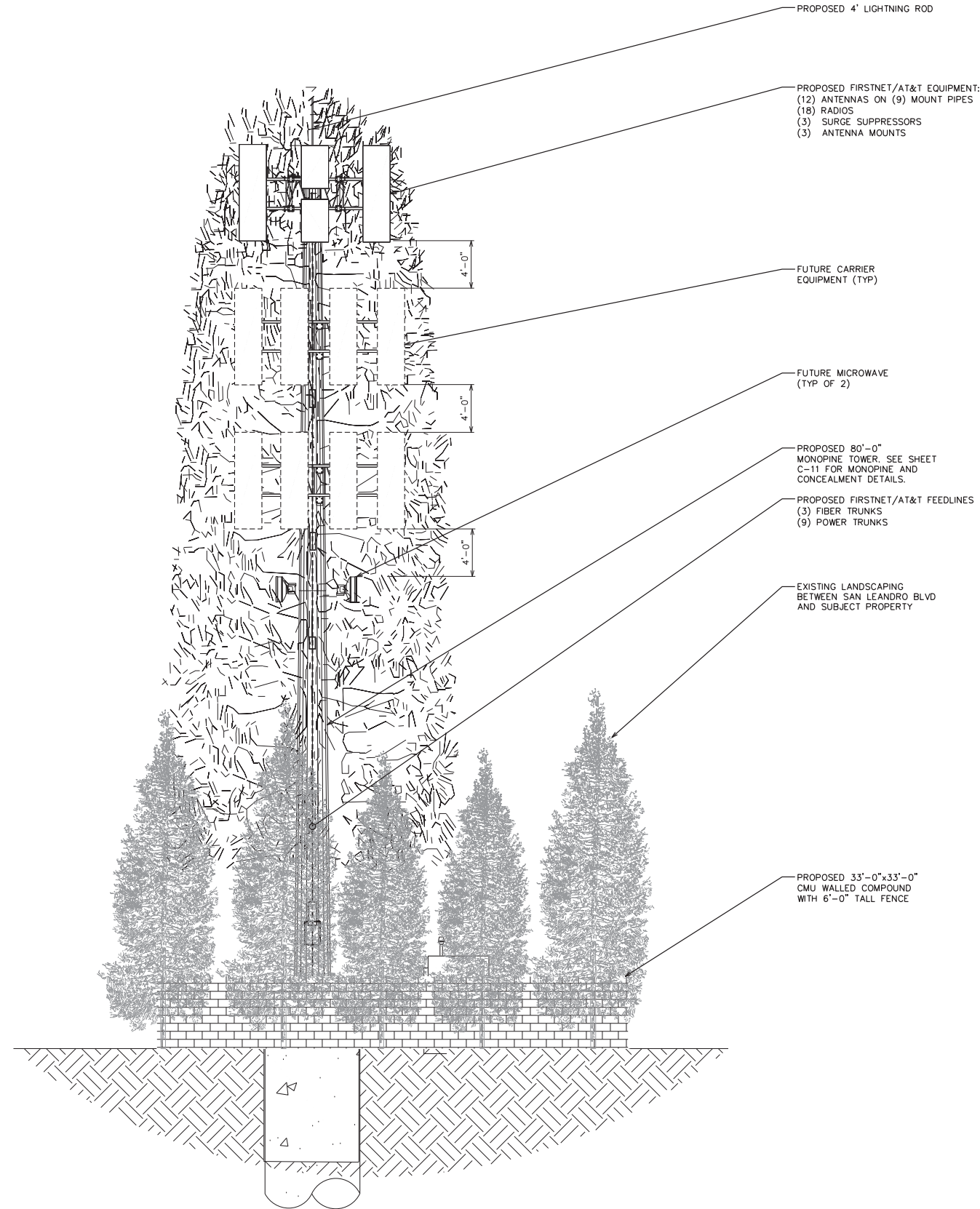
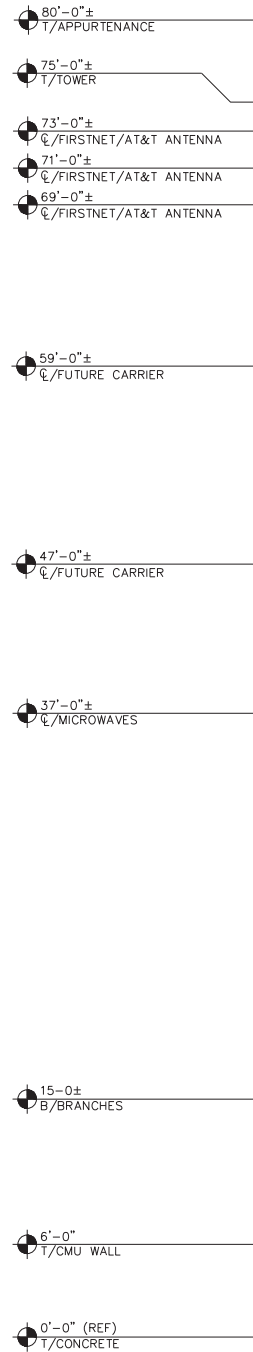
TEP #: 314190.336174

1 FINAL COMPOUND LAYOUT

SCALE: 3/8" = 1'-0" (24x36)
 SCALE: 1/8" = 1'-0" (11x17)
 0 2 4
 SCALE IN FEET

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.



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440 PERALTA

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SAN LEANDRO, CA 94577
(ALAMEDA COUNTY)

PROPOSED 80'-0" MONOPINE TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
D	12-09-22	SSO	ZONING	HMM
E	01-10-23	SSO	ZONING	HMM
F	06-03-23	CAM	ZONING	HMM
G	11-16-23	SJA	ZONING	HMM
H	07-18-24	GSM	ZONING	HMM

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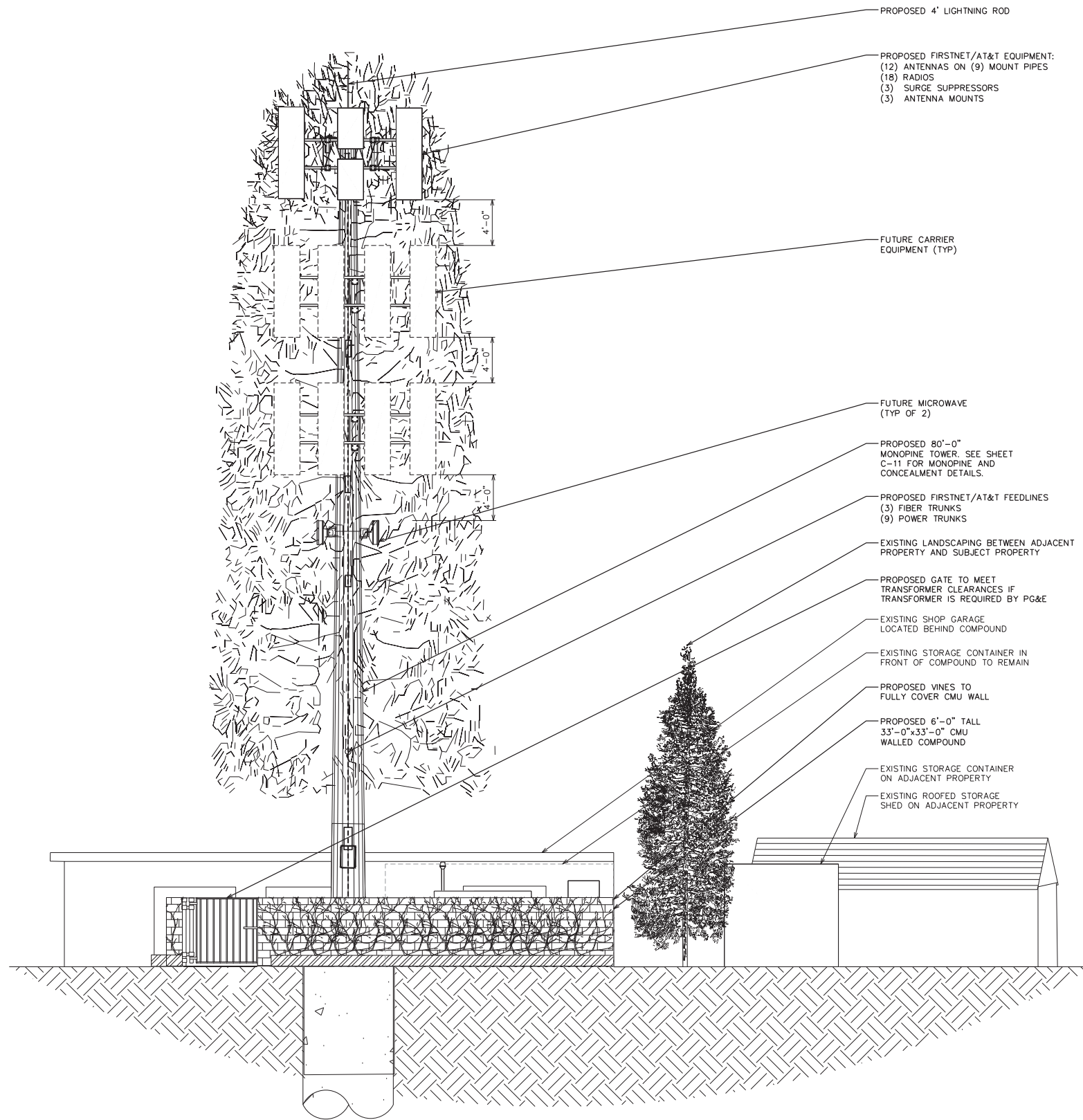
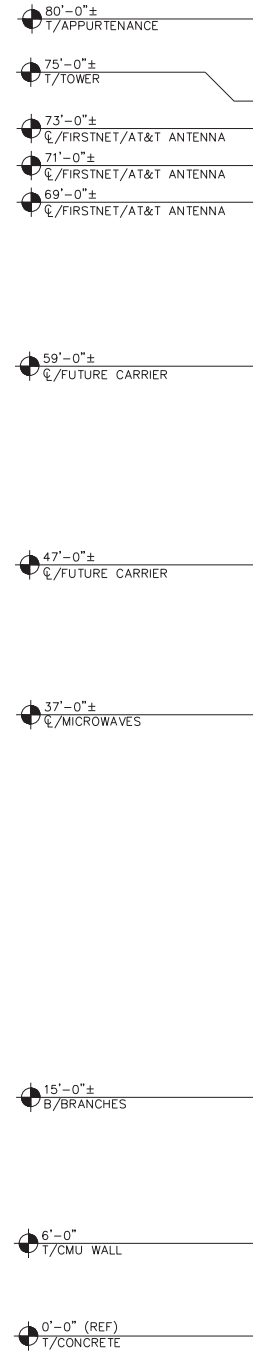
SHEET TITLE:
FINAL NORTHWEST (BIXCO ST) ELEVATION

SHEET NUMBER: **C-2.1** **REVISION:** **H**

TEP #: 314190.336174

NOTES:

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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.



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440 PERALTA

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SAN LEANDRO, CA 94577
(ALAMEDA COUNTY)

PROPOSED 80'-0" MONOPINE TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
D	12-09-22	SSO	ZONING	HMM
E	01-10-23	SSO	ZONING	HMM
F	06-03-23	CAM	ZONING	HMM
G	11-16-23	SJA	ZONING	HMM
H	07-18-24	GSM	ZONING	HMM

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SHEET TITLE:
FINAL NORTHEAST
(SAN LEANDRO BLVD)
ELEVATION

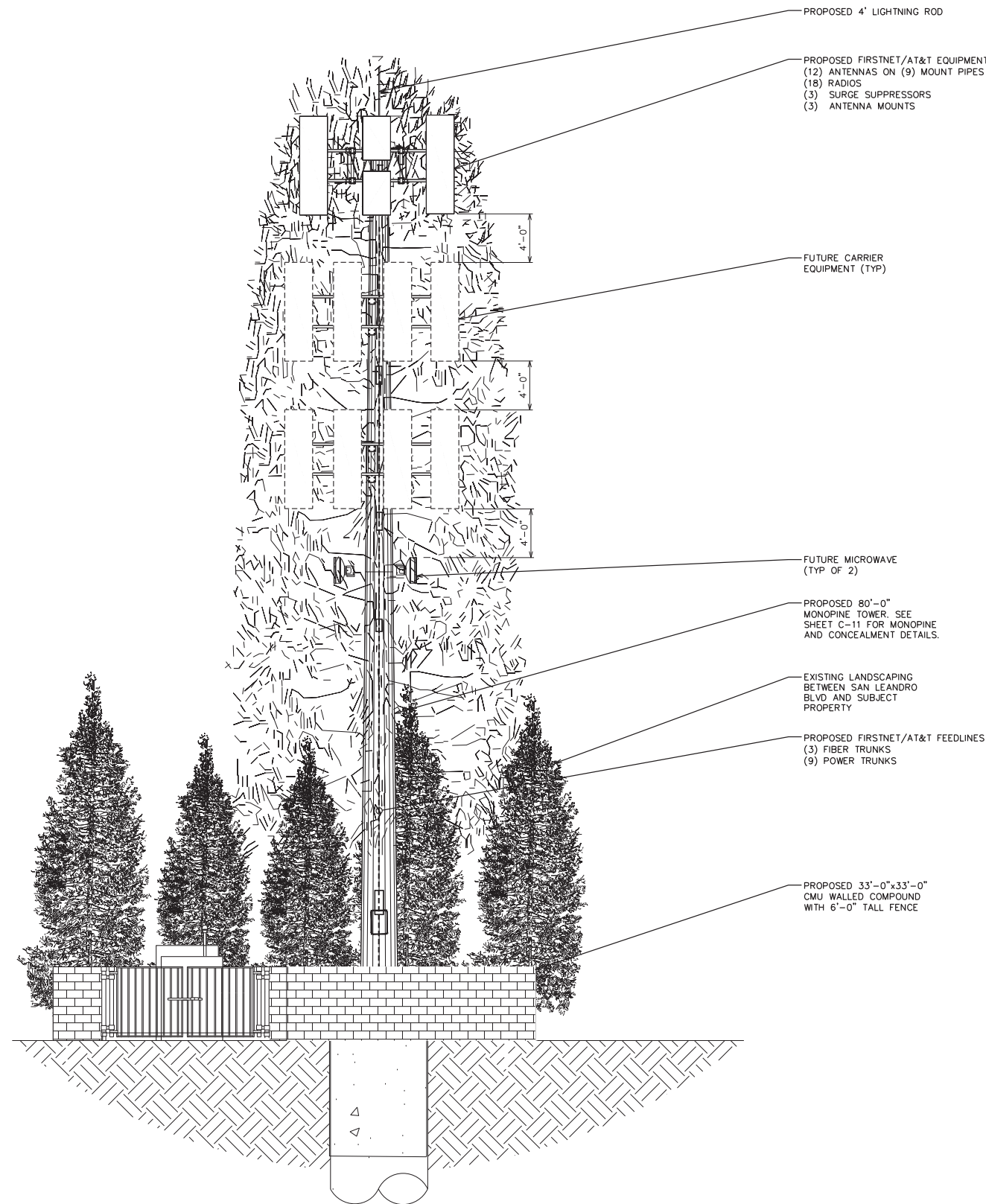
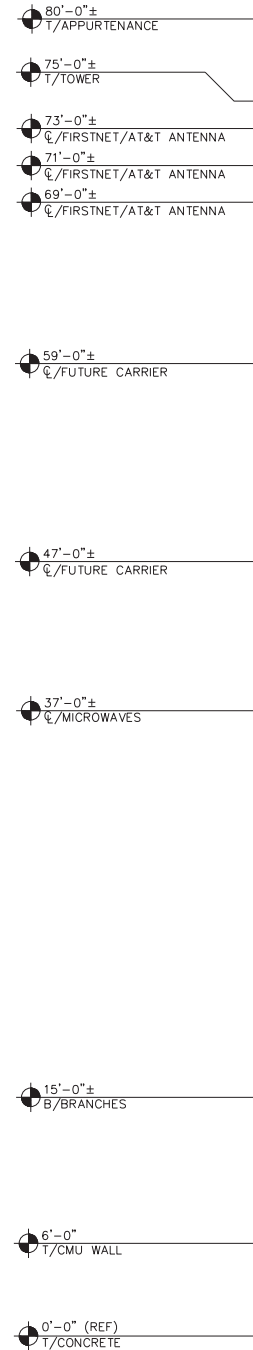
SHEET NUMBER:
C-2.2

REVISION:
H

TEP #: 314190.336174

NOTES:

1. PROPOSED CABLES TO BE ROUTED PER SPECIFICATIONS OF PASSING STRUCTURAL ANALYSIS.
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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.



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440 PERALTA

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SAN LEANDRO, CA 94577
(ALAMEDA COUNTY)

PROPOSED 80'-0" MONOPINE TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
D	12-09-22	SSO	ZONING	HMM
E	01-10-23	SSO	ZONING	HMM
F	06-03-23	CAM	ZONING	HMM
G	11-16-23	SJA	ZONING	HMM
H	07-18-24	GSM	ZONING	HMM

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SHEET TITLE:
FINAL SOUTHEAST (PERALTA AVE) ELEVATION

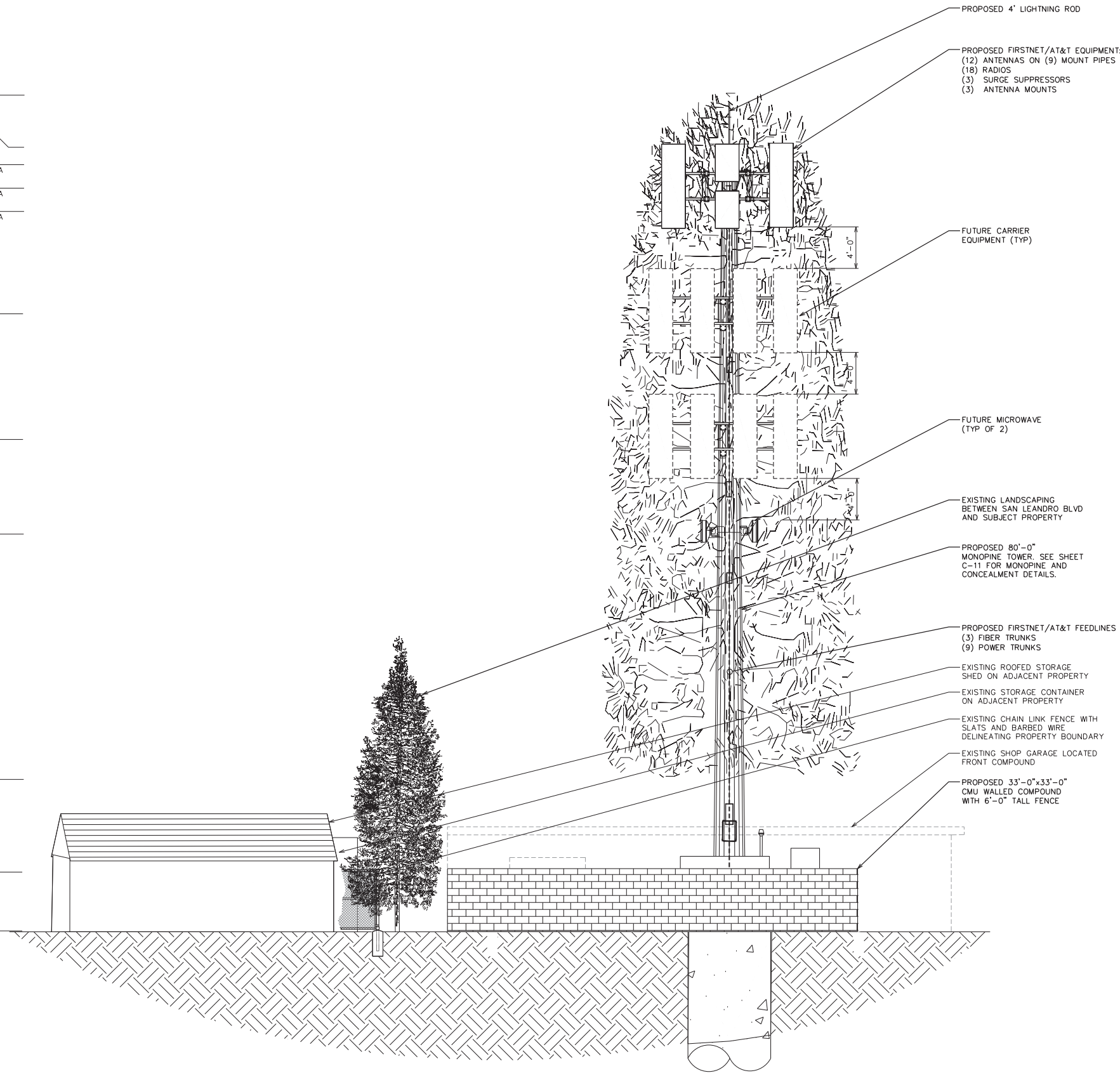
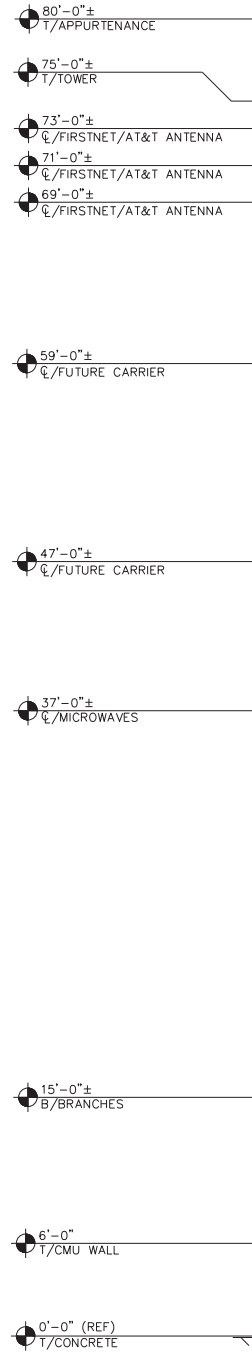
SHEET NUMBER:
C-2.3

REVISION:
H

TEP #: 314190.336174

NOTES:

- PROPOSED CABLES TO BE ROUTED PER SPECIFICATIONS OF PASSING STRUCTURAL ANALYSIS.
- 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.
- 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.
- COMPOUND WALL AND TOWER WOULD HAVE LITTLE TO NO VISIBILITY FROM BIXCO ST GIVEN THE SCREENING OF EXISTING TREES, OVERHEAD RAIL, AND EXISTING BUILDINGS.



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PSTC #: CANC-SLEAN01
440 PERALTA

440 PERALTA AVENUE
SAN LEANDRO, CA 94577
(ALAMEDA COUNTY)

PROPOSED 80'-0" MONOPINE TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
D	12-09-22	550	ZONING	HMM
E	01-10-23	550	ZONING	HMM
F	06-03-23	CAM	ZONING	HMM
G	11-16-23	5JA	ZONING	HMM
H	07-18-24	GSM	ZONING	HMM

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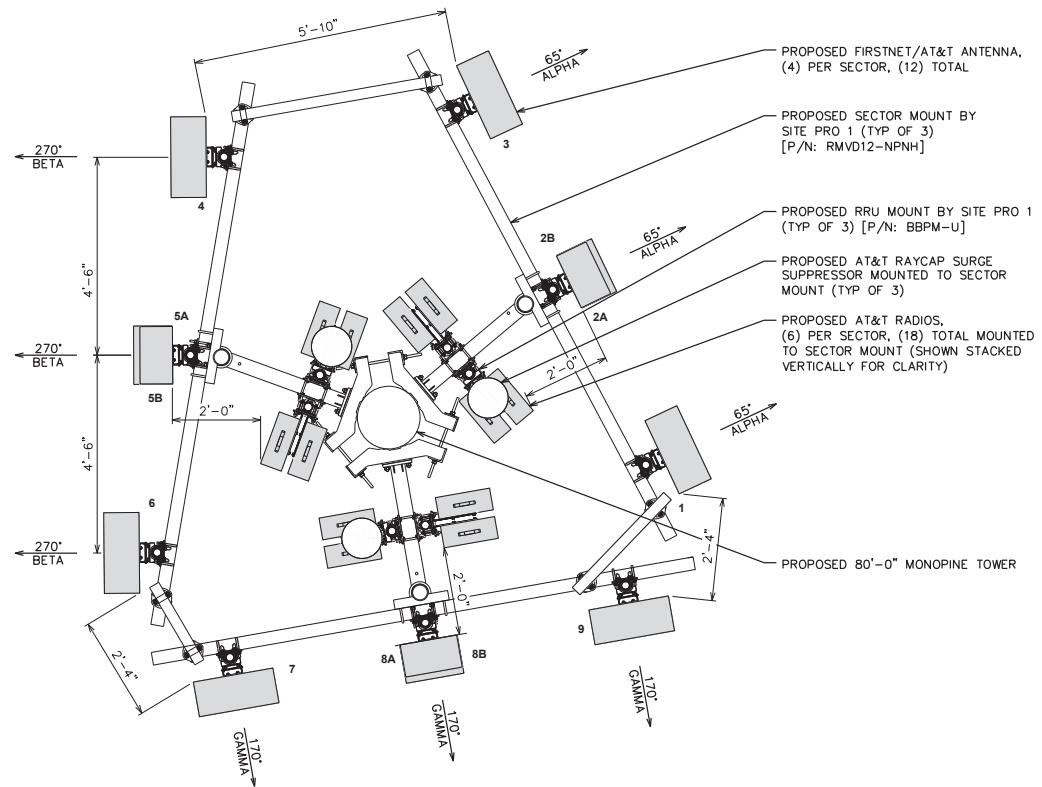
SHEET TITLE:
FINAL SOUTHWEST ELEVATION

SHEET NUMBER:
C-2.4

REVISION:
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TEP #: 314190.336174

NOTE:
TEP DID NOT ANALYZE THE PROPOSED MOUNT SHOWN.



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(ALAMEDA COUNTY)

PROPOSED 80'-0" MONOPINE TOWER

1 FINAL ANTENNA LAYOUT

SCALE: 1/2" = 1'-0" (24x36)
SCALE: 1/4" = 1'-0" (11x17)
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 (QD6612-3D)	☉ @ 71'-0"±	65°	(9) DC POWER TRUNKS (3) FIBER TRUNKS	121'±	(1) RADIO 4449 B5/B12 (1) RADIO 8843 B2/B66A (1) RADIO 4478 B14 (1) RADIO 2012 B29 (1) RADIO 4415 B30 (1) DC9-48-60-24-8C-EV (1) RADIO 4426 B66 (FUTURE)
ALPHA	2A	ERICSSON (AIR6449 B77D)	☉ @ 69'-0"±	65°			
ALPHA	2B	ERICSSON (AIR6419 B77C)	☉ @ 73'-0"±	65°			
ALPHA	3	QUINTEL (QD6616-7)	☉ @ 71'-0"±	65°			
BETA	4	QUINTEL (QD6612-3D)	☉ @ 71'-0"±	270°			
BETA	5A	ERICSSON (AIR6449 B77D)	☉ @ 69'-0"±	270°			
BETA	5B	ERICSSON (AIR6419 B77C)	☉ @ 73'-0"±	270°			
BETA	6	QUINTEL (QD6616-7)	☉ @ 71'-0"±	270°			
GAMMA	7	QUINTEL (QD6612-3D)	☉ @ 71'-0"±	170°			
GAMMA	8A	ERICSSON (AIR6449 B77D)	☉ @ 69'-0"±	170°	(1) RADIO 4449 B5/B12 (1) RADIO 8843 B2/B66A (1) RADIO 4478 B14 (1) RADIO 2012 B29 (1) RADIO 4415 B30 (1) DC9-48-60-24-8C-EV (1) RADIO 4426 B66 (FUTURE)		
GAMMA	8B	ERICSSON (AIR6419 B77C)	☉ @ 73'-0"±	170°			
GAMMA	9	QUINTEL (QD6616-7)	☉ @ 71'-0"±	170°			

*EQUIPMENT IS PRELIMINARY AND SUBJECT TO CHANGE

2 FINAL ANTENNA SCHEDULE

SCALE: N.T.S.

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
D	12-09-22	SSO	ZONING	HMM
E	01-10-23	SSO	ZONING	HMM
F	08-03-23	CAM	ZONING	HMM
G	11-16-23	SJA	ZONING	HMM
H	07-18-24	GSM	ZONING	HMM

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SHEET TITLE:
FINAL ANTENNA LAYOUT & SCHEDULE

SHEET NUMBER: **C-3** **REVISION:** **H**

TEP #: 314190.336174

2.2 System Configuration

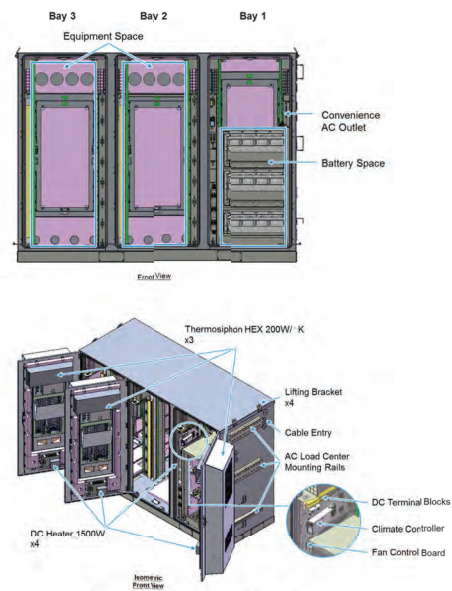


Figure 2-2 Multi-Bay Cabinet (Front View)

2.3 Cabinet Specifications

The cabinet is arranged for installation of a Delta or third-party AC Load Center and front access DC Power System. Table 2-1 below contains the input power specifications.

Item	Specification/Function
AC Input Range	
AC Input Voltage	1W+N+FG 100-120V _{AC}
AC Input Current (maximum)	12A (Max.)
AC Input Frequency	50/60Hz
DC Input Range	
DC Input Voltage	40 - 60V _{DC} (54V typical)
DC Input Current Rating	224A (max)
Battery Section	
Battery Trays	(3) Trays arranged for -48V battery strings, designed for: GNB Marathon M12V180FT Energys SBS190F Energys SBS170F
Climate Control	
Control & Supervisor Unit	Delta controller
Cooling	(3) 200W/K Thermosiphon HEX Cooling Capacity 9.1kW Maintains equipment inlet <65°C with exterior ambient <46°C
Heating	(4) 1500W DC Heaters
Environmental	
Operating Temperature	-40°C to +46°C (-40°F to +115°F)
Storage Temperature	-40°C to +75°C (-40°F to +167°F)
Relative Humidity	>-95% Relative Humidity, Non-Condensing
Altitude	-100 feet to +10,000 feet
Acoustic noise	≤ 65dBA @ +40°C equipment inlet
Protection Class	IP55 (EN 60529) NEBS III (GR-487)

2.4 Dimensions and Weight

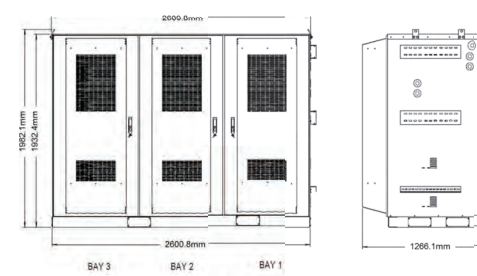


Figure 2-3 Cabinet Dimensions

Item	Specification/Function
Dimensions	2600.8W x 1932.4H x 1266.1D mm (102"W x 72"H x 49.5"D + 4" plinth)
Weight	2270* lbs. (* Batteries, Power System and Load Equipment excluded)

3.6 Cabinet Installation

Use the following steps to install the cabinet.

Step 1 Use the provided Template to mark anchor hole locations.

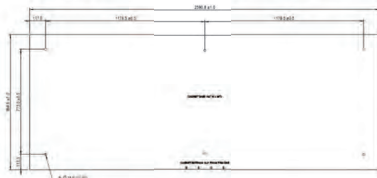


Figure 3-11 Mounting Template

Step 2 Drill anchor holes per specifications from the anchor manufacturer.

Step 3 Install anchors per instructions from the anchor manufacturer.



Figure 3-12 Insert anchors

Step 4 Place the pad separator (not provided) on the concrete pad aligned with the mounting holes. (A pad separator provides separation between the concrete pad and the base of the cabinet to prevent corrosion of the cabinet metal.)

Step 5 Mount the cabinet to the concrete pad with anchor bolts, lock washers and flat washers (not provided) per instructions from the anchor manufacturer.

Step 6 Close and secure hinged anchor access covers.

3.8 AC Load Center Installation

The cabinet provides mounting rails for AC Load Center mounting and corresponding cable entry ports for wiring from the AC Load Center into the cabinet. Follow Load Center requirements for installation.

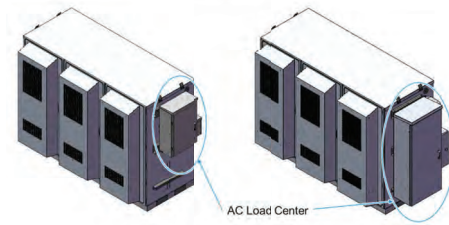


Figure 3-16 Cabinet with AC Load Center

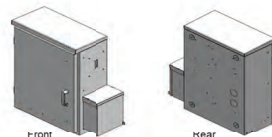


Figure 3-17 AC Load Center - MTS

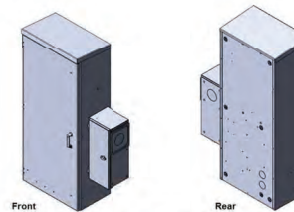


Figure 3-18 AC Load Center - ATS



Note The cabinet provides mounting rails and AC cable entry ports arranged for mounting of Intersect PTL-C-MTS-12200-CL or equivalent AC Load Center. An AC Load Center and related fittings are not provided with the cabinet and must be provided as integration or site materials.

Use the following steps to install the Load Center on the cabinet:

- Step 1 Provide suitable sealed fittings from the AC Load Center for entry into the Cabinet. Install on the Load Center before installing the Load Center onto the Cabinet. Delta recommends using Size 2" x 4" long outdoor rated pipe nipples and sealing conduit nuts (not provided).
- Step 2 Provide Intersect PTL-C-MTS-12200-CL or equivalent AC Load Center. Secure the Load Center to mounting rails per Load Center vendor instructions.
- Step 3 Secure and seal fittings from the AC Load Center into entry ports on the cabinet.
- Step 4 Confirm the Site Utility and Load Center Main AC input breakers are in the 'off' position.
- Step 5 Connect Site Utility 2W+N+G to the Load Center per Load Center vendor instructions, NEC, and local codes.



Note Detailed AC Load Center position planning should include future equipment additions and changes.

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(ALAMEDA COUNTY)
PROPOSED 80'-0" MONOPINE TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
D	12-09-22	SSO	ZONING	HMM
E	01-10-23	SSO	ZONING	HMM
F	06-03-23	CAM	ZONING	HMM
G	11-16-23	SJA	ZONING	HMM
H	07-18-24	GSM	ZONING	HMM

SEAL:

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SHEET TITLE:
WALK-UP-CABINET DETAILS

SHEET NUMBER: **C-4** **REVISION:** **H**

TEP #: 314190.336174

NOTES:

- 1. DETAILS SHOWN WERE PROVIDED BY OTHERS AND ARE NOT CARRIED UNDER SIGNATURE AND SEAL OF TOWER ENGINEERING PROFESSIONALS ENGINEERING SERVICES AND/OR ITS ENGINEERS
- 2. REFER TO MANUFACTURER'S INSTALLATION SPECIFICATIONS FOR FURTHER DETAILS ON INSTALLATION OF EXTENSION KIT.
- 3. INSTALL EXHAUST VENT EXTENSION AS REQUIRED TO PROVIDE 12" CLEARANCE FROM GROUND LEVEL IN ACCORDANCE WITH WASHINGTON STATE CODE.
- 4. FOR OVERFILL AND SPILL PROTECTION GENERATOR INCLUDES AN OVERFILL VALVE, A 5 GALLON SPILL BOX, AND A 5 GALLON SPILL BOX RETURN HOSE.

SD030 | 2.2L | 30 KW
INDUSTRIAL DIESEL GENERATOR SET



Standby Power Rating
30 kW, 38 kVA, 60 Hz

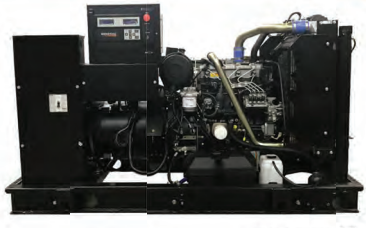
Prime Power Rating*
27 kW, 34 kVA, 60 Hz



Codes and Standards

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

- UL2000, UL6200, UL1236, UL489, UL142
- CSA C22.2, ULC S601
- BSS514 and DIN 6271
- SAE J1349
- NFPA 37, 70, 99, 110
- NEC700, 701, 702, 708
- ISO 3046, 7637, 8528, 9001
- NEMA ICS10, MG1, 250, ICS66, A1
- ANSI C62.41



Powering Ahead

For over 60 years, Generac has provided innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac generates a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse conditions.

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

SD030 | 2.2L | 30 KW
INDUSTRIAL DIESEL GENERATOR SET



APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

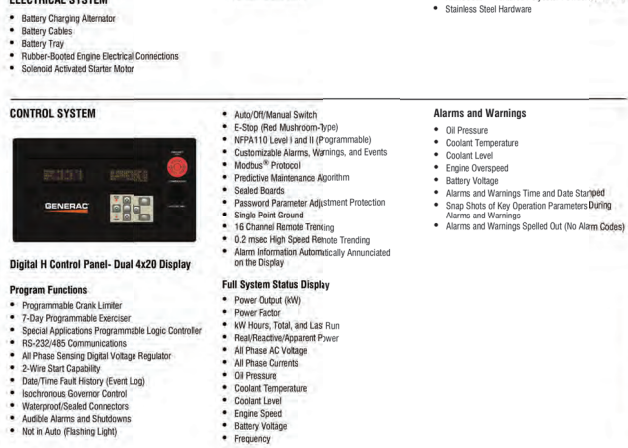
Table with engine specifications including General, Cooling System, Fuel System, Engine Governing, Lubrication System, and Alternator Specifications.

SD030 | 2.2L | 30 KW
INDUSTRIAL DIESEL GENERATOR SET



STANDARD FEATURES

- ENGINE SYSTEM**
 - Oil Drain Extension
 - Air Cleaner
 - Level 1 Fan and Belt Guards (Open Set Only)
 - Stainless Steel Flexible Exhaust Connection
 - Factory Filled Oil and Coolant
 - Radiator Duct Adapter (Open Set Only)
 - Critical Silence (Enclosed Unit Only)
 - Engine Coolant Heater
- FUEL SYSTEM**
 - Fuel Lockoff Solenoid
 - Primary Fuel Filter
- COOLING SYSTEM**
 - Closed Coolant Recovery System
 - UV/Ozone Resistant Hoses
 - Factory-installed Radiator
 - Radiator Drain Extension
 - 50/50 Ethylene Glycol Antifreeze
- ELECTRICAL SYSTEM**
 - Battery Charging Alternator
 - Battery Cables
 - Battery Tray
 - Rubber-Booted Engine Electrical Connections
 - Solenoid Activated Starter Motor
- CONTROL SYSTEM**
 - Auto/Off/Manual Switch
 - E-Stop (Red Mushroom-Type)
 - NFPA110 Level I and II (Programmable)
 - Customizable Alarms, Warnings, and Events
 - Modbus® Protocol
 - Predictive Maintenance Algorithm
 - Sealed Boards
 - Password Parameter Adjustment Protection
 - Single Power Ground
 - 16 Channel Remote Trending
 - 0.2 msec High Speed Remote Trending
 - Alarm Information Automatically Announced on the Display
- Alarms and Warnings**
 - Oil Pressure
 - Coolant Temperature
 - Coolant Level
 - Engine Overspeed
 - Battery Voltage
 - Alarms and Warnings Time and Date Stamped
 - Snap Shots of Key Operational Parameters During Alarms and Warnings
 - Alarms and Warnings Spelled Out (No Alarm Codes)



Program Functions:

- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- All Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability
- Over-Time Fault History (Event Log)
- Isynchronous Governor Control
- Waterproof/Sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)

SD030 | 2.2L | 30 KW
INDUSTRIAL DIESEL GENERATOR SET



OPERATING DATA

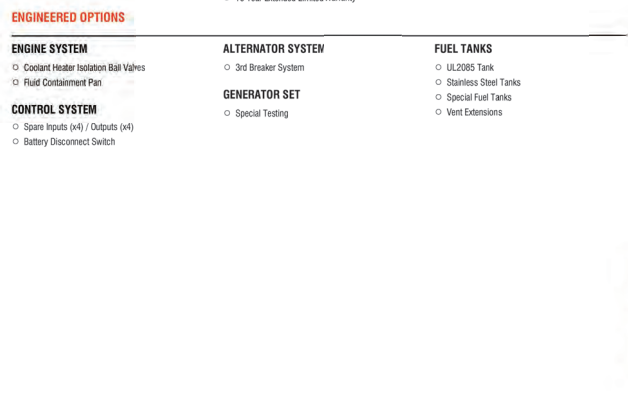
Table with operating data including Motor Starting Capabilities (skVA), Fuel Consumption Rates, and Cooling specifications.

SD030 | 2.2L | 30 KW
INDUSTRIAL DIESEL GENERATOR SET



CONFIGURABLE OPTIONS

- ENGINE SYSTEM**
 - Oil Heater
 - Critical Silence (Open Set Only)
 - Radiator Stone Guard
 - Level 1 Fan and Belt Guards (Enclosed Unit Only)
- FUEL SYSTEM**
 - NPT Flexible Fuel Line
- ELECTRICAL SYSTEM**
 - 10A, UL Listed Battery Charger
 - Battery Warmer
- ALTERNATOR SYSTEM**
 - Alternator Upsizing
 - Air-Conditioning Heater
 - Tropical Coating
 - Permanent Magnet Excitation
- GENERATOR SET**
 - Extended Factory Testing
 - 8 Position Load Center
 - Pad Vibration Isolation
- ENGINEERED OPTIONS**
 - Coolant Heater Isolation Ball Valves
 - Rust Containment Pan
- CONTROL SYSTEM**
 - Spare Inputs (v4) / Outputs (v4)
 - Battery Disconnect Switch
- CIRCUIT BREAKER OPTIONS**
 - Main Line Circuit Breaker
 - 2nd Main Line Circuit Breaker
 - Short Trip and Auxiliary Contact
 - Electronic Trip Breakers
- ENCLOSURE**
 - Weather Protected Enclosure
 - Level 1 Sound Attenuator
 - Level 2 Sound Attenuator with Motorized Dampers
 - Steel Enclosure
 - Aluminum Enclosure
 - Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
 - A/C/DC Enclosure Lighting Kit
 - Door Open Alarm Switch
 - Enclosure Heater
 - Damper Alarm Contacts
- CONTROL SYSTEM**
 - NFPA 110 Compliant 21-Light Remote Annunciator
 - Remote Relay Assembly (R or 1R)
 - Oil Temperature Indication and Alarm
 - Remote E-Stop (Break Glass-Type, Surface Mount)
 - Remote E-Stop (Red Mushroom-Type, Surface Mount)
 - Remote E-Stop (Red Mushroom-Type, Flush Mount)
 - Ground Fault Annunciation
 - 120V GFCI and 240V Outlets
 - Remote Communication - Modem
 - 10A Engine Run Relay
- FUEL TANKS (Size On Last Page)**
 - 8 in (203.2 mm) Fill Extension
 - 13 in (330.2 mm) Fill Extension
 - 19 in (482.6 mm) Fill Extension
 - Overfill Protection Valve
 - 5 Gallon Spill Box Return Hose
 - 5 Gallon Spill Box
 - Tank Risers
 - Fuel Level Switch and Alarm
 - 12" Vent System
 - Fire Rated Stainless Steel Fuel Hose
- WARRANTY (Standby Bases Only)**
 - 2 Year Extended Limited Warranty
 - 5 Year Limited Warranty
 - 5 Year Extended Limited Warranty
 - 7 Year Extended Limited Warranty
 - 10 Year Extended Limited Warranty



SD030 | 2.2L | 30 KW
INDUSTRIAL DIESEL GENERATOR SET



DIMENSIONS AND WEIGHTS*

Table with dimensions and weights for open set, weather protected enclosure, level 1 sound attenuated enclosure, and level 2 sound attenuated enclosure.

PROPOSED 30 KW GENERATOR WITH 190 GALLON TANK AND LEVEL 2 AC声 ENCLOSURE

* All dimensions are approximate and based on standard options only. Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.

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

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TOWER ENGINEERING PROFESSIONALS
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PHOENIX, AZ 85040
OFFICE: (480) 285-0036
www.tepgroup.net

FIRSTNET/AT&T ID: CCL05539
ALVARADO ST & CALLAWAY ST
PSTC #: CANC-SLEAN01
440 PERALTA
440 PERALTA AVENUE
SAN LEANDRO, CA 94577
(ALAMEDA COUNTY)
PROPOSED 80'-0"
MONOPINE TOWER

Table with 5 columns: REV, DATE, DRWN, DESCRIPTION, QA

SEAL:
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SHEET TITLE:
GENERATOR DETAILS

SHEET NUMBER: C-5
REVISION: H

TEP #: 314190.336174



PowerSafe®
SBS Front Terminal
Telecommunications **NEBS™ Certified**

Battery Range Summary

The PowerSafe® SBS® Front Terminal battery further extends the technical leadership of PowerSafe SBS battery product line: not only do PowerSafe SBS Front Terminal monoblocs retain the benefits typically associated with Thin Plate Pure Lead (TPPL) Technology such as long life, high energy density, superior shelf life, etc., they also deliver exceptional cyclic performance in both float and fast charge applications, even in the hottest and harshest operating environments.

Where conventional Valve Regulated Lead Acid (VRLA)/Absorbed Glass Mat (AGM) batteries struggle to cope with harsh conditions and frequent power outages, cutting edge (TPPL) technology makes PowerSafe 12V batteries the perfect solution for the challenging operating conditions of today's telecommunication networks.

PowerSafe SBS batteries are designed to high quality standards and a unique manufacturing methods means superior energy and power, high performance and proven reliability, there is no substitute to PowerSafe SBS Front Terminal batteries.

Features and Benefits

- Capacity range 31-190Ah
- 12V monobloc configurations
- Multiple string configurations available
- Two year shelf life
- SR4228 compliant
- Proven long service life
- High energy density and cycling capability



Publication No: US-SBSF-RS-004 - January 2014

Construction

- Robust positive plates are designed to prolong service life and enhance corrosion resistance
- Separators are low resistance microporous (AGM). The electrolyte is absorbed within the AGM, preventing acid spills in case of accidental damage
- Container and cover in flame retardant UL94-V0 material, highly resistant to shock and vibration
- Terminals are stainless steel front access with top access copper alloy insert. Top and front access terminations provide maximum conductivity
- Self-regulating one way pressure relief valves prevents ingress of atmospheric oxygen

Installation and Operation

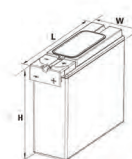
- Space efficient footprint
- VRLA design, reduces maintenance requirements
- Lifting handles for easy handling
- Greater than 10 year life expectancy in float service at 77°F (25°C)
- Increased active material surface area yields great cycling capability
- Operating temperature: -40°F (-40°C) to 122°F (50°C)
Recommended temperature: 68°F (20°C) to 86°F (30°C)

Standards

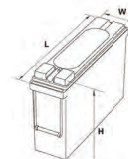
- Meets criteria for "non-spillable" batteries
- Complies with Telcordia® SR-4228, Network Equipment Building System (NEBS™) Criteria Levels
- The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified

General Specifications

Cell Type	Nominal Capacity (Ah)		Nominal Dimensions				Weight - Volumes			
	10 hr rate to 1.80Vpc @20°C	8 hr rate to 1.75Vpc @77°F	Length in	Length mm	Width in	Width mm	Height in	Height mm	Unpacked lbs	Unpacked kg
SBS B8F	31	31	11.9	303	3.8	97	6.3	159	22.7	10.3
SBS B10F	38	38	11.9	303	3.8	97	7.2	184	28.2	12.8
SBS B14F	62	62	11.9	303	3.8	97	10.4	264	42.0	19.1
SBS C11F	92	91	16.4	417	4.1	105	10.1	256	61.6	28.0
SBS 100F	100	100	15.6	395	4.3	108	11.3	287	71.9	32.6
SBS 112F	112	112	22.1	561	4.9	125	9.0	228	90.4	41.1
SBS 145F	145	145	17.9	455	3.8	173	9.4	238	105.0	47.7
SBS 165F	165	165	17.9	455	3.8	173	10.8	273	117.4	53.3
SBS 170F	170	170	22.1	561	4.9	125	11.1	283	115.7	52.5
SBS 190F	190	190	22.1	561	4.9	125	12.4	316	132.3	60.0



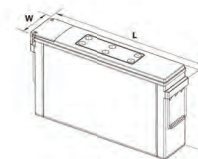
SBS B8F-B14F



SBS C11F



SBS 100F-112F



SBS 145F - 190F

MANUFACTURER:	ALPINE POWER SYSTEMS
MODEL:	POWERSAFE SBS 190F
BATTERY QTY.:	8 UNITS
TOTAL BATTERY KWH:	18.24
TOTAL BATTERY WEIGHT (KG/LBS):	480 / 1058.4
TOTAL ELECTROLYTE VOLUME (GAL):	18.72
TOTAL ELECTROLYTE WEIGHT (KG/LBS):	129.5 / 285.4



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CARLSBAD, CA 92008



5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



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FIRSTNET/AT&T ID: CCL05539
ALVARADO ST
& CALLAWAY ST

PSTC #: CANC-SLEAN01
440 PERALTA

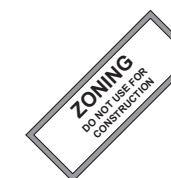
440 PERALTA AVENUE
SAN LEANDRO, CA 94577
(ALAMEDA COUNTY)

PROPOSED 80'-0"
MONOPINE TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
D	12-09-22	SSO	ZONING	HMM
E	01-10-23	SSO	ZONING	HMM
F	06-03-23	CAM	ZONING	HMM
G	11-16-23	SJA	ZONING	HMM
H	07-18-24	GSM	ZONING	HMM

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SHEET TITLE:

BATTERY DETAILS

SHEET NUMBER:

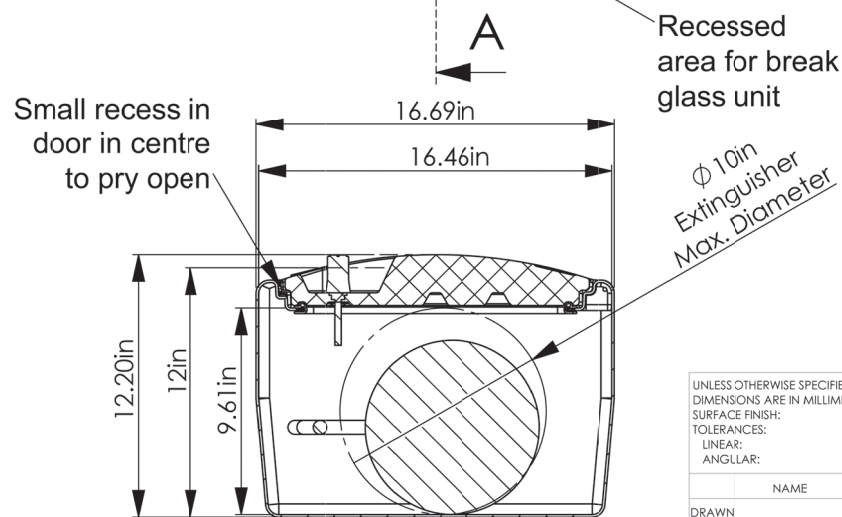
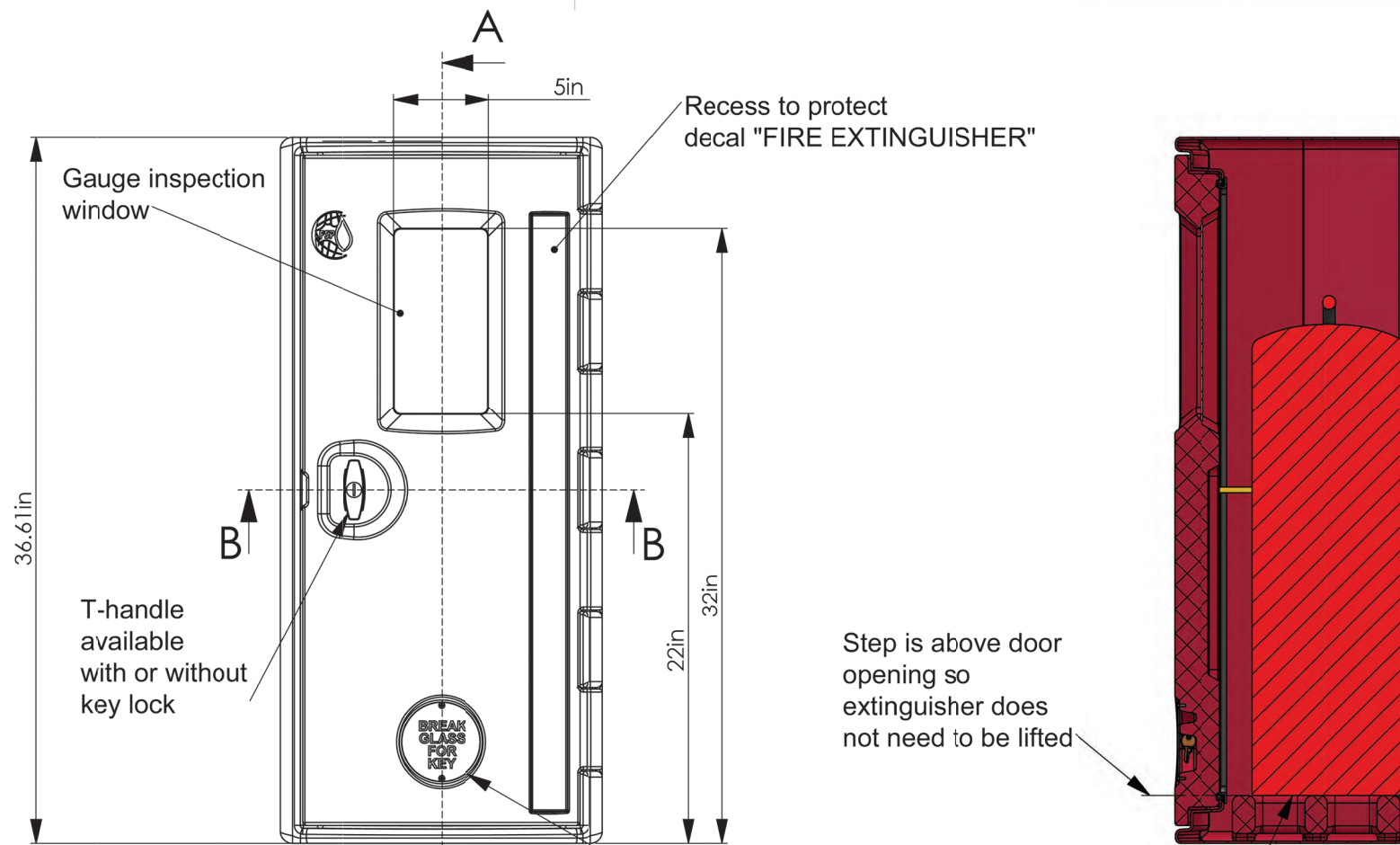
C-6

REVISION:

H

TEP #:

314190.336174



Step is above door opening so extinguisher does not need to be lifted

Fire extinguisher sits on step

SECTION A-A

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Fax: (409) 840-5545
info@ameraproducts.com

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SURFACE FINISH:
TOLERANCES:
LINEAR:
ANGULAR:

DEBUR AND
BREAK SHARP
EDGES



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NAME	SIGNATURE	DATE
DRAWN		
CHKD		
APPV'D		
MFG		
Q.A.		

TITLE:
CFE900 Fire Extinguisher Cabinet

DWG NO. **CFE900** A3

SCALE: 1:7 DO NOT SCALE DRAWING REVISION D SHEET 1 OF 1

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PHOENIX, AZ 85040
OFFICE: (480) 285-0036
www.tepgroup.net

FIRSTNET/AT&T ID: CCL05539
ALVARADO ST & CALLAWAY ST
PSTC #: CANC-SLEAN01
440 PERALTA
440 PERALTA AVENUE
SAN LEANDRO, CA 94577
(ALAMEDA COUNTY)
PROPOSED 80'-0" MONOPINE TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
D	12-09-22	SSO	ZONING	HMM
E	01-10-23	SSO	ZONING	HMM
F	06-03-23	CAM	ZONING	HMM
G	11-16-23	SJA	ZONING	HMM
H	07-18-24	GSM	ZONING	HMM

SEAL:

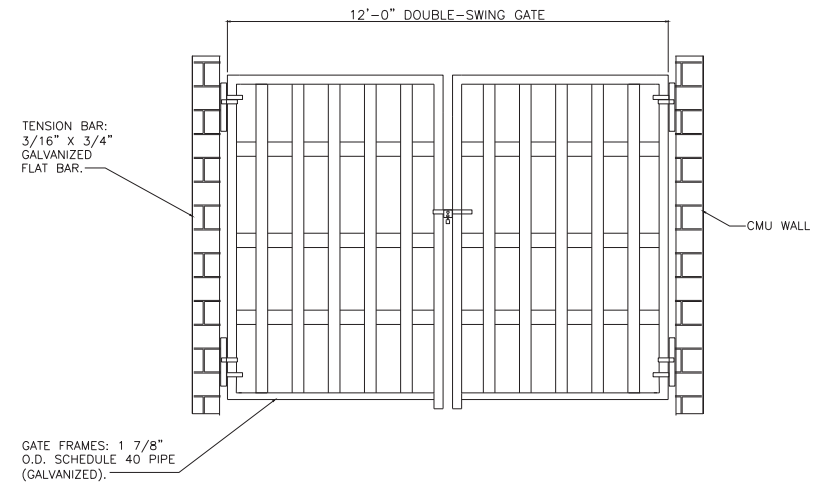
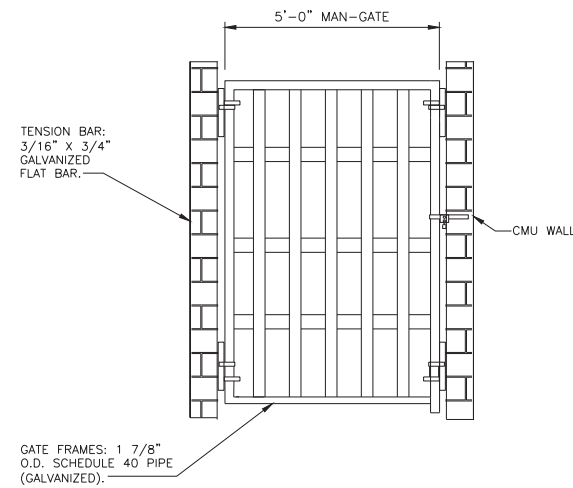
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SHEET TITLE:
FIRE EXTINGUISHER DETAIL

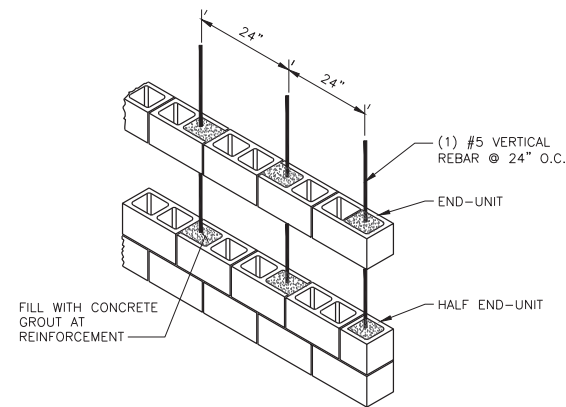
SHEET NUMBER: **C-7** REVISION: **H**

TEP #: 314190.336174

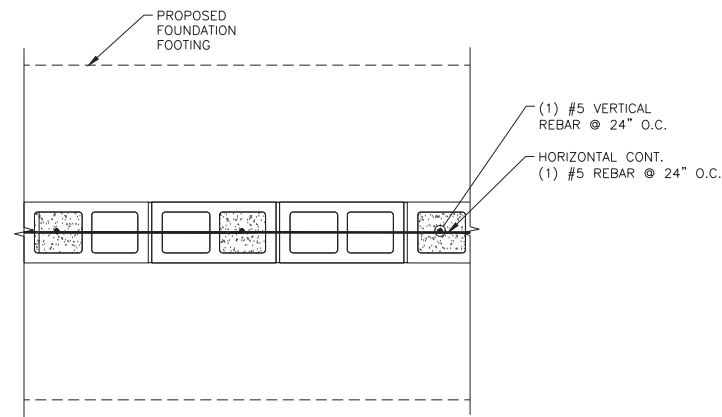


1 MAN-GATE DETAIL
SCALE: N.T.S.

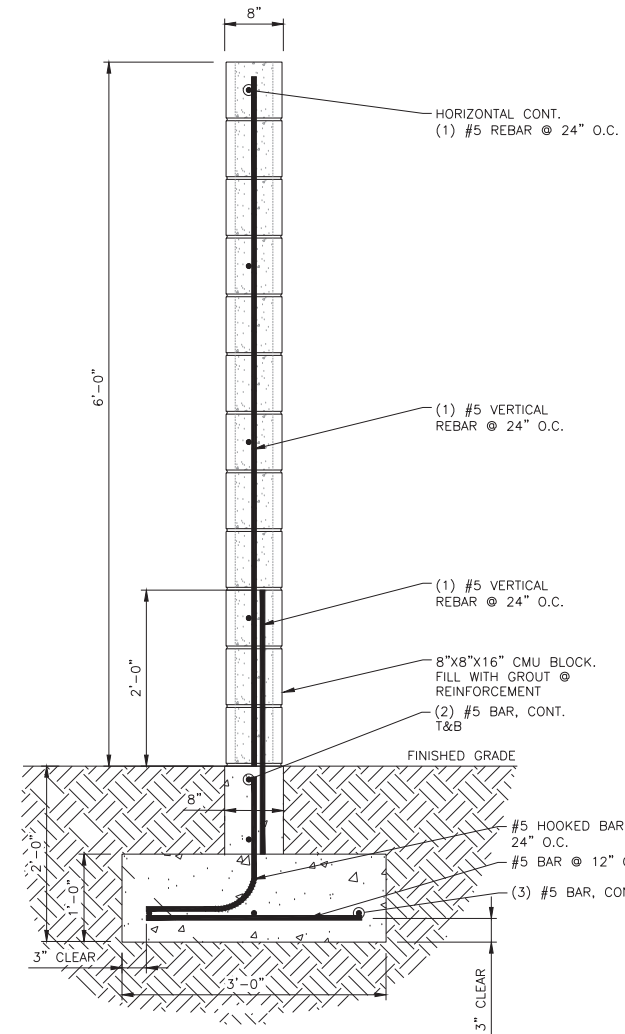
2 DOUBLE-SWING GATE DETAIL
SCALE: N.T.S.



3 TYPICAL CMU WALL GROUTING & REINFORCEMENT
SCALE: N.T.S.



4 TYPICAL CMU WALL PLAN
SCALE: N.T.S.



5 TYPICAL CMU WALL CROSS SECTION
SCALE: N.T.S.

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440 PERALTA

440 PERALTA AVENUE
SAN LEANDRO, CA 94577
(ALAMEDA COUNTY)

PROPOSED 80'-0"
MONOPINE TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
D	12-09-22	SSO	ZONING	HMM
E	01-10-23	SSO	ZONING	HMM
F	06-03-23	CAM	ZONING	HMM
G	11-16-23	SJA	ZONING	HMM
H	07-18-24	GSM	ZONING	HMM

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SHEET TITLE:
CMU WALL DETAILS

SHEET NUMBER: C-8
REVISION: H

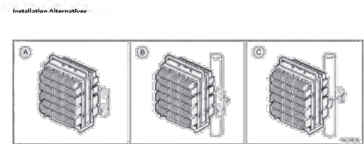
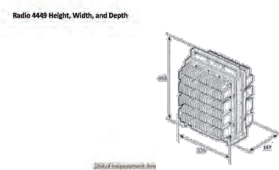
TEP #: 314190.336174

Optional installation equipment for wall and pole mount is available.

Installation

Technical specification for Radio 4449 B71 B 85A

FREQUENCY BANDS	
Bandwidth	B71 = B3A B71 = 45.0, 90.0, 135.0, 180.0 (15, 30, 45, 60 MHz) B5A = 45.0, 90.0, 135.0 (15, 30, 45 MHz)
HW CAPACITY	
Carrier capacity LTE	Max 6 carriers per port (CA) max 9 carriers per port (DL)
Carrier capacity NR	NR carrier up to 20 MHz (20)
CAI (CA)	Supported up to 4 carriers (CA) LTE carrier
NR (CA)	Up to 2 NR carriers up to 100 MHz (100) or 200 MHz (200) per port
INTERFACE SPECIFICATIONS	
External Antenna Line Device	RET 2.5 using DIN 8 (D) or the antenna port, AGO TMA & RET support
CPRI	2 x 2.5 Gbit/s or 1 x 5 Gbit/s (CPRI)
Optical interface	0
Maintenance interface	1
External alarm	2 using DIN 14 (S)
Fault ground	Chassis
MECHANICAL SPECIFICATIONS	
Weight	~ 34 kg
Volume	300 x 335 x 267 mm (HxWxD)
Dimensions	See drawing for details
Mounting	Wall, pole and rack mount (partial only)
ELECTRICAL SPECIFICATIONS	
Power supply	-48 VDC (3-wire)
ENVIRONMENTAL SPECIFICATIONS	
Normal operating temp.	-40°C to +55°C (partial at +40°C)
Environmental test	Compliant with MIL-STD-883C Class B
Partial cooling	Radio 4449 B71 B 85A is conduction cooled only, no fan module



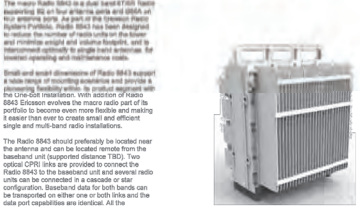
Installation Method/Description

A	Wall installation
B	Pole installation
C	Pole installation with single pole clamp

Installation Limitations

Ericsson does not recommend painting the radio as it may affect radio performance of the unit. Ericsson will apply limitations to the warranty and service contract if the radio is painted.

RADIO 8843 B2 B66A



The new Radio 8843 is a dual band 4G LTE radio supporting B2 on four global bands and B66A on two global bands. The radio is designed to reduce the number of radio units per site and reduce the number of antennas per site, while maintaining the same performance and coverage. The radio is designed to be a single band solution for dual band operation with dual band antennas.

The Radio 8843 should preferably be located near the antenna and can be located away from the antenna if the required distance is 100m. The radio is designed to be a single band solution for dual band operation with dual band antennas.

Technical Specification for Radio 8843 B2 B66A

FREQUENCY BANDS	
Bandwidth	B2 = B3A B66A = 45.0, 90.0, 135.0 (15, 30, 45 MHz)
HW CAPACITY	
Carrier capacity LTE	Max 6 carriers per port (CA) max 9 carriers per port (DL)
Carrier capacity NR	NR carrier up to 20 MHz (20)
CAI (CA)	Supported up to 4 carriers (CA) LTE carrier
NR (CA)	Up to 2 NR carriers up to 100 MHz (100) or 200 MHz (200) per port
INTERFACE SPECIFICATIONS	
External Antenna Line Device	RET 2.5 using DIN 8 (D) or the antenna port, AGO TMA & RET support
CPRI	2 x 2.5 Gbit/s or 1 x 5 Gbit/s (CPRI)
Optical interface	0
External alarm	2 using DIN 14 (S)
Fault ground	Chassis
MECHANICAL SPECIFICATIONS	
Weight	~ 34 kg
Volume	300 x 335 x 267 mm (HxWxD)
Dimensions	See drawing for details
Mounting	Wall, pole and rack mount (partial only)
ELECTRICAL SPECIFICATIONS	
Power supply	-48 VDC (3-wire)
ENVIRONMENTAL SPECIFICATIONS	
Normal operating temp.	-40°C to +55°C (partial at +40°C)
Environmental test	Compliant with MIL-STD-883C Class B
Partial cooling	Radio 8843 B2 B66A is conduction cooled only, no fan module

Technical Specification for Radio 2012 B29

Description	
Radio 2012 B29 Height (A) x Width (B) x Depth (C)	420 mm x 342 mm x 124 mm
Dimensions with Fan Unit (V2) (H)	
Radio 2012 B29 Height (A) x Width (B) x Depth (C)	420 mm x 342 mm x 124 mm
Dimensions with Fan Unit (V2) (H)	
Radio 2012 B29 Height (A) x Width (B) x Depth (C)	420 mm x 342 mm x 124 mm
Weight without Fan Unit	
Radio 2012 B29	17.6 kg
Radio 2012 B29	17.6 kg
Weight with Fan Unit (V2) (H)	
Radio 2012 B29	23.5 kg
Radio 2012 B29	18.9 kg
Radio 2012 B29	28.9 kg
Color	
Body	NCS 5.1002-B
Front	NCS 5.6902-B

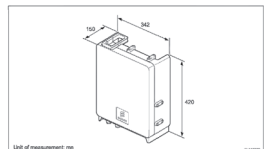


Figure 2 Radio 2012 Height, Width, and Depth without Fan Unit

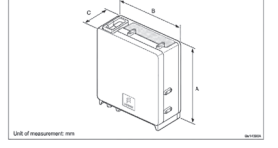


Figure 3 Radio 2012 Height, Width, and Depth with Fan Unit

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5005 EXECUTIVE PARKWAY
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PROPOSED 80'-0" MONOPINE TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
D	12-09-22	SSO	ZONING	HMM
E	01-10-23	SSO	ZONING	HMM
F	08-03-23	CAM	ZONING	HMM
G	11-16-23	SJA	ZONING	HMM
H	07-18-24	GSM	ZONING	HMM

SEAL:

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SHEET TITLE:
EQUIPMENT DETAILS

SHEET NUMBER:
C-10

REVISION:
H

TEP #: 314190.336174

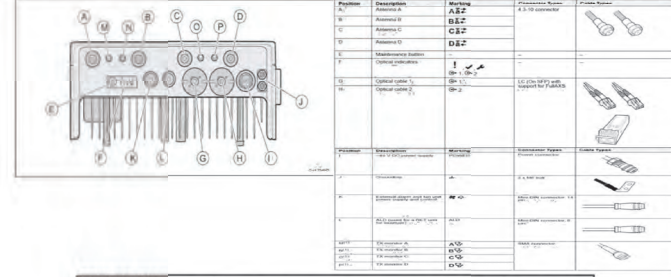
1 PROPOSED RRUS 4449 B5/B12 DETAIL
SCALE: N.T.S.

RRUS 4415 B30

- B30 A+B
- TX = 2350 - 2380 MHz
- RX = 2305 - 2315 MHz
- CPRI 2 ports x 2.5 Gbit/s @ 10.1 Gbps. Install 2 SFPs and connect 2 fiber pair to the RRUS 4415 during initial install.
- Only use Ericsson supplied and approved SFPs RDH1025025
- Ericsson SFP part numbers RDH112701 and RDH112702 for CPRI = 10Gb
- 2 antenna (2x) require
- Max wind load @ 50m/hic = 280N
- Breaker size = 25A, DC Power Consumption = 670 W (for dimensioning)
- 200mm horizontal separation required for side by side mounting
- 200mm separation required from antenna backplane to radio
- 400mm vertical outdoor separation required between 2 radios
- 500mm vertical separation between components
- Min. Max. DC cable size from squid to radio = 10.8 AWG
- Adaptor is required for 2-wire connection
- Shielded DC cable is required
- Ground cable size = 2AWG
- Dimensions (incl. handles, feet and sunshield, w/o fan unit)
- Height 18.5" (469 mm)
- Width 13.4" (342 mm)
- Depth 8.9" (225 mm)
- Weight, incl. mounting hardware = 45 lbs (21 kg)



RRUS 4415 B30 CONNECTION INTERFACES



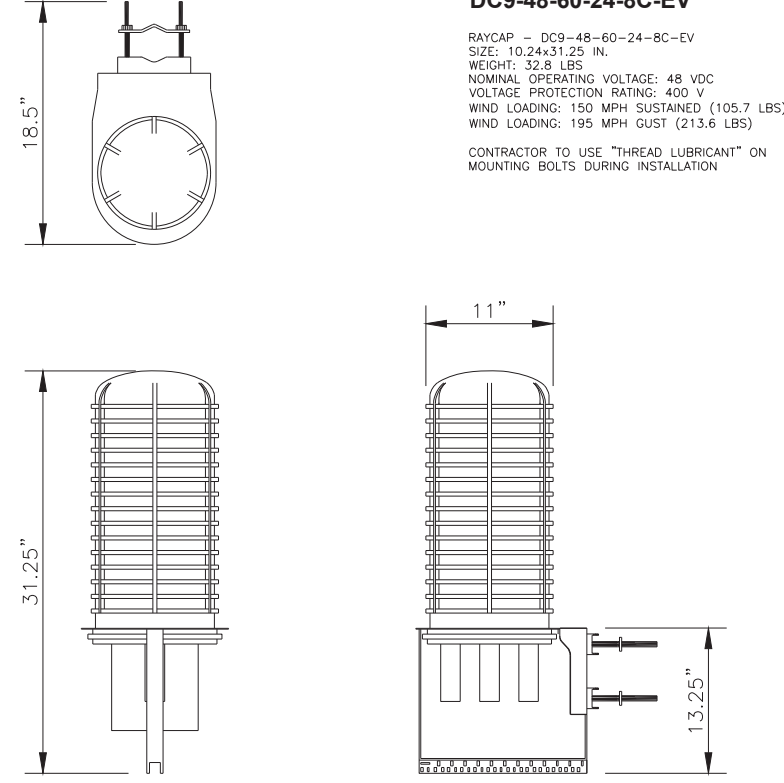
CPRI, RET/MSport, and ALD port caps have lanyards attached to the radio. DC and RF ports have protective caps to be removed when DC, RF connected to radio.

4 PROPOSED RRUS 4415 B30 DETAIL
SCALE: N.T.S.

2 PROPOSED RRUS 8843 B2/B66A DETAIL
SCALE: N.T.S.

RAYCAP
DC9-48-60-24-8C-EV

RAYCAP - DC9-48-60-24-8C-EV
SIZE: 10.24x31.25 IN.
WEIGHT: 32.8 LBS
NOMINAL OPERATING VOLTAGE: 48 VDC
VOLTAGE PROTECTION RATING: 400 V
WIND LOADING: 150 MPH SUSTAINED (105.7 LBS)
WIND LOADING: 195 MPH GUST (213.6 LBS)
CONTRACTOR TO USE "THREAD LUBRICANT" ON MOUNTING BOLTS DURING INSTALLATION



5 PROPOSED RAYCAP DETAIL
SCALE: N.T.S.

3 PROPOSED RRUS 2012 B29 DETAIL
SCALE: N.T.S.

6 NOT USED
SCALE: N.T.S.

LARSON MONO-PINE CAMOUFLAGE

MODERATE APPLICATIONS (>60 FT <100 FT HEIGHT)



65' 3.1 BPF (Premium) 70' 3.25 BPF (Aleppo Pine) 70' 3.25 BPF (Standard) 60' 3.1 BPF (Premium)

3 INNOVATORS OF CONCEALMENT SOLUTIONS

LARSON ANTENNA SOCKS AND SPECIALTY BRANCHES

ANTENNA + SOCK + BRANCHES

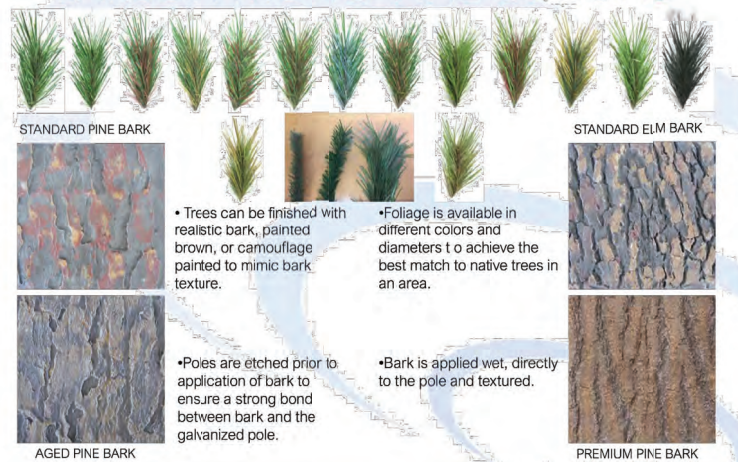


RF-friendly Larson Antenna Socks are vital to camouflage antennas within the canopy of the tree & the addition of Larson Antenna Branches can create complete concealment.

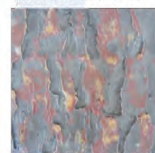
A combination of Larson antenna socks and branches creates a nearly invisible antenna array. Each of these trees is equipped with (9) six foot tall by one foot wide antennas at the top rad center.

6 INNOVATORS OF CONCEALMENT SOLUTIONS

LARSON MONO-PINE OPTIONS



STANDARD PINE BARK



• Trees can be finished with realistic bark, painted brown, or camouflage painted to mimic bark texture.

• Foliage is available in different colors and diameters to achieve the best match to native trees in an area.

STANDARD ELM BARK



• Poles are etched prior to application of bark to ensure a strong bond between bark and the galvanized pole.

• Bark is applied wet, directly to the pole and textured.

PREMIUM PINE BARK

INNOVATORS OF CONCEALMENT SOLUTIONS



Antenna Sock Installation Instructions

USE OF THIS DOCUMENT
This manual is intended to describe the installation of Larson® monopine, monoaleppo, and monoelm/elm antenna concealment socks. It is intended for users who are experienced and competent in the installation of these types of structures and is not intended as the only source of information. It is the user's responsibility to ensure that he has sufficient knowledge and experience and to use this manual as a supplement to this knowledge and experience only.

NOTE: These antenna socks are not intended to be installed around heat generating equipment. Integrated antennas or radios use the RRU sock assembly that includes the metal hoop assembly to facilitate air flow.

LIABILITY
It is the responsibility of the customer, installing contractor, and all personnel involved with the installation to comply with all applicable laws and safety regulations. Nothing in this manual shall suggest or imply anything to the contrary. All companies and personnel must have previous experience in erecting and rigging tower structures and telecommunication equipment.

Personal protective equipment (PPE) should be used to increase individual safety while performing potentially hazardous tasks. This may include safety glasses, hard hats, gloves, lab coats, respirators, or any equipment used to protect against injury or illness.

During construction activities above ground, protection against falls frequently must be considered. Fall arresting systems, which include lifelines, body harnesses, and other associated equipment, must be used at all times when working above ground.

Protection should also be provided from falling objects. Work areas, particularly above groundwork areas should be kept clear of material and debris and personnel and equipment on the ground should be kept clear of the fall zone and be protected against falling objects.

Protection should also be provided from radio frequency radiation. Ensure that any antennas will be working near are de-energized.

Revision 1 6/26/2024



EQUIPMENT LIST

Larson antenna sock kits consist of the following items:
• (2) Foliage antenna sock (various height, width, and foliage densities are available) use standard model naming convention below.
• (3) 48" zip ties per 6' long sock or (4) 48" zip ties per 8' long sock
• Installation sheet

LCAS-72PIN-SWSE			
Length	Foliage Type	Width	Density
22'2" Long	PM Pine Foliage	36" Standard Width (36")	SP Standard Foliage Density
28'6" Long	EM Elm Foliage	48" Wide Width (48")	HP Heavy Foliage Density

Revision 1 6/26/2024



ANTENNA SOCK INSTALL

1. Install the antennas in accordance with the manufacturer's instructions.
2. Paint exposed antenna surfaces (if permitted by the manufacturer) monopine and monoaleppo/elm should be painted 'Larson Base Brown' and monoelm/elm should be painted High-Tex SW6159, for optimum concealment. Larson recommends a flat outdoor water-based latex paint, see paint code in the photos below. This can be purchased at any local Sherwin Williams store.

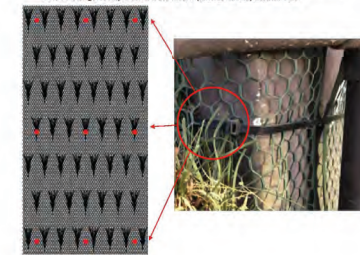


Revision 1 6/26/2024



3. Remove the antenna socks from the box and verify all items listed in the Equipment List section are present.

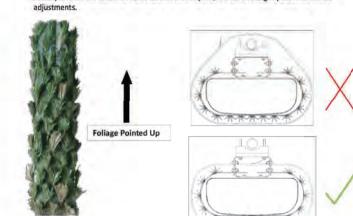
4. While the antenna sock is still on the ground, lace the 48" UV zip ties through the netting in the nine locations shown below. The vertical spacing of the zip ties should be 6" from the top, 6" from the bottom, and approximately 28"-30" apart so they are evenly spaced between the top and the bottom. Make sure that the zip tie is against the netting and not over the foliage. Example below is for a 6' x 3' (standard width) antenna sock.



Revision 1 6/26/2024



5. Raise the antenna sock to the antenna location, the antenna sock should be centered on the antenna both on the vertical and horizontal axes. The lower tufts of foliage should point skyward for correct orientation. Starting with the uppermost zip tie, wrap the antenna sock radially around the antenna. Cinch down on the zip tie, but leave it slightly loose for minor adjustments.



6. Move to the middle zip tie(s), wrap the antenna sock radially around the antenna. Cinch down on the zip tie, but leave it slightly loose for minor adjustments.
7. Repeat step 5 for the lowest zip tie.

Revision 1 6/26/2024



8. Verify that the antenna is completely concealed, adjust the antenna sock as needed to achieve the desired concealment. Snug tighten all of the zip ties, so that the antenna sock cannot move.

NOTE: If the antenna socks are longer or wider than the antenna, trim netting to fit OR use the extra netting by folding it over the top or sides of the antenna and lace the zip tie(s) through that section. Repeat steps 5-7.

INSTALLATION SUPPORT OR QUESTIONS

If any items are missing or defective, immediately call the Valmont Larson office at 520-294-3900 or email LarsonCamOrders@valmont.com. Please have the site location and site ID ready.

Revision 1 6/26/2024

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FIRSTNET/AT&T ID: CCL05539
ALVARADO ST & CALLAWAY ST
PSTC #: CANC-SLEAN01
440 PERALTA
440 PERALTA AVENUE
SAN LEANDRO, CA 94577
(ALAMEDA COUNTY)
PROPOSED 80'-0" MONOPINE TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
D	12-09-22	SSO	ZONING	HMM
E	01-10-23	SSO	ZONING	HMM
F	06-03-23	CAM	ZONING	HMM
G	11-16-23	SJA	ZONING	HMM
H	07-18-24	GSM	ZONING	HMM

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SHEET TITLE:
CONCEALMENT DETAILS

SHEET NUMBER: **C-11** REVISION: **H**

TEP #: 314190.336174



FIRSTNET/AT&T ID: CCL05539
 ALVARADO ST & CALLAWAY ST
 PSTC #: CANC-SLEAN01
 440 PERALTA
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 PROPOSED 80'-0"
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SHEET TITLE:
AC PANEL SCHEDULE

SHEET NUMBER: **E-1** REVISION: **H**

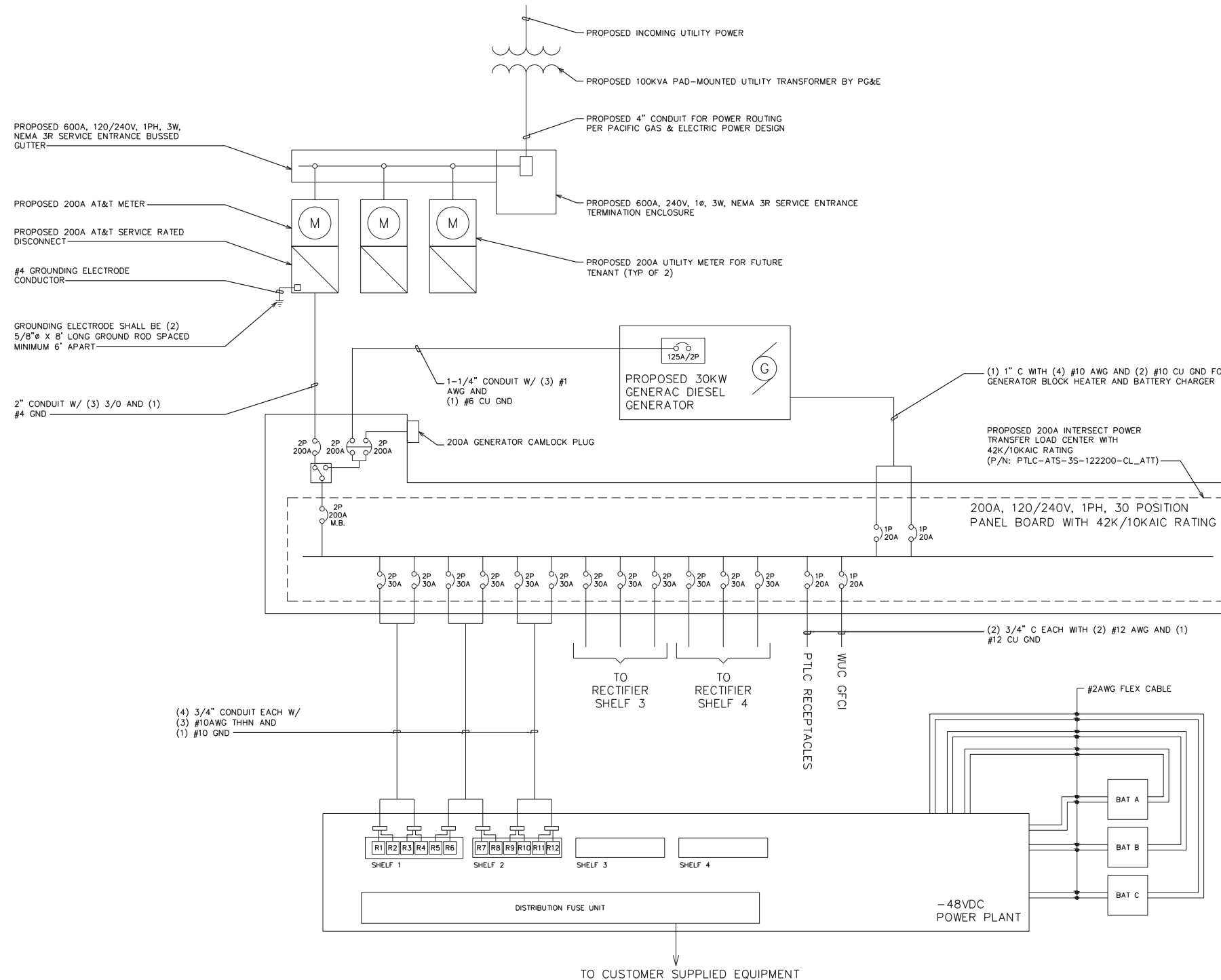
TEP #: 314190.336174

AC POWER PANEL A (PROPOSED)											
120/240 VOLTS, 1-PHASE, 3-WIRE, 200A											
MAIN BREAKER RATING (A) :				200		SYSTEM VOLTAGE (V) :				240	
DESCRIPTION	VA	c/nc	BKR	POSN	L1	L2	POSN	BKR	c/nc	VA	DESCRIPTION
RECTIFIERS #1 & 2	1410	c	30/2	1	2820		2	30/2	c	1410	RECTIFIERS #3 & 4
	1410	c		3		2820	4		c	1410	
RECTIFIERS #5 & 6	1410	c	30/2	5	2820		6	30/2	c	1410	RECTIFIERS #7 & 8
	1410	c		7		2820	8		c	1410	
RECTIFIERS #9 & 10	1410	c	30/2	9	2820		10	30/2	c	1410	RECTIFIERS #11 & 12
	1410	c		11		2820	12		c	1410	
SPARE / OFF	0	nc	30/2	13	0		14	30/2	nc	0	SPARE / OFF
	0	nc		15		0	16		nc	0	
SPARE / OFF	0	nc	30/2	17	0		18	30/2	nc	0	SPARE / OFF
	0	nc		19		0	20		nc	0	
SPARE / OFF	0	nc	30/2	21	0		22	30/2	nc	0	SPARE / OFF
	0	nc		23		0	24		nc	0	
BLANK				25	1000		26	20/1	nc	1000	*GEN BLOCK HEATER
BLANK				27		650	28	20/1	nc	650	*GEN BATT CHARGER
PTLC RECEPTACLES	720	nc	20/1	29	900		30	20/1	nc	180	WUC GFCI
PHASE TOTALS (VA):					10360	9110					
PHASE TOTALS (A):					86	76					
CURRENT PER PHASE W/ 125% Continuous Loads(A):					104	94	Amperes/phase cannot exceed main breaker rating				
PANEL TOTAL (VA):					19470		Legend: c = continuous, nc = non-continuous				
PANEL TOTAL W/ 125% Continuous Loads (VA):					23700						
TOTAL LOAD FOR GEN OPERATION:					17820		*Generator loads are not in operation while generator is running				

PROPOSED LOADING = 23.7 KVA

NOTES:

1. CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT WITH POWER COMPANY AND ENSURE ALL ELECTRICAL EQUIPMENT IS SUITABLE FOR AVAILABLE FAULT CURRENT.
2. CONTRACTOR SHALL COORDINATE UTILITY SERVICES WITH LOCAL UTILITY COMPANIES. VERIFY ALL REQUIREMENTS WITH UTILITY COMPANY STANDARDS.
3. ONE-LINE DIAGRAM IS FOR SCHEMATIC PURPOSES ONLY AND IS NOT INDICATIVE OF THE ACTUAL EQUIPMENT LAYOUT.
4. CONTRACTOR SHALL LABEL METER SOCKET WITH SERVICE OWNER NAMEPLATE WITH 1/2" HEIGHT MINIMUM LETTERS.
5. CONTRACTOR TO DETERMINE AVAILABLE FAULT CURRENT BEFORE ENERGIZING EQUIPMENT. THE AMOUNT OF AVAILABLE FAULT CURRENT SHALL BE MARKED ON THE SERVICE EQUIPMENT PER NEC 110.24.
6. CONTRACTOR WILL NOTIFY UTILITY COMPANY OF CHANGES IN ELECTRICAL LOAD.



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SHEET TITLE:
ONE-LINE DIAGRAM

SHEET NUMBER:
E-2

REVISION:
H

TEP #: 314190.336174