

RFID#: 5598258  
 USID #: 325383  
 FA #: 15974413  
 5G NR 1SR CBAND  
 PTN#: 3705A17VVX  
 PACE#: MRSFR099951  
 LTE 5C  
 PTN#: 3705A17VQ5  
 PACE#: MRSFR09897  
 BWE TOWER TOP  
 PTN#: 3705A17VRD  
 PACE#: MRSFR099943  
 LTE 2C  
 PTN#: 3705A17VN7  
 PACE#: MRSFR099878  
 LTE 3C  
 PTN#: 3705A17VP4  
 PACE#: MRSFR099900

5G NR 1SR CBAND  
 PTN#: 3705A17VVS  
 PACE#: MRSFR099950  
 5G NR 1DR-2  
 PTN#: 3705A17VNX  
 PACE#: MRSFR099939  
 LTE1C CELL SITE  
 REPLACEMENT  
 PTN#: 3705A16SA2  
 PACE#: MRSFR097542  
 LTE 4C  
 PTN#: 3705A17VPY  
 PACE#: MRSFR099927



City of Santa Rosa  
 Received on August 15, 2024  
 Planning & Economic  
 Development Department

SITE NUMBER: CCL05865  
 SITE NAME: ROUND BARN  
 SITE TYPE: ROOFTOP/OUTDOOR CABINETS  
 ADDRESS: 3562 ROUND BARN CIRCLE  
 SANTA ROSA, CA 95403

PROJECT DESCRIPTION

INSTALLATION OF AN UNMANNED TELECOMMUNICATIONS FACILITY, CONSISTING OF THE FOLLOWING:

ANTENNA SOW:

- INSTALL (4) QD4612-3D PANEL ANTENNAS, TYP. 1 PER SECTOR
- INSTALL (4) AIR6419 B77G PANEL ANTENNAS, TYP. 1 PER SECTOR
- INSTALL (4) AIR6449 B77D PANEL ANTENNAS, TYP. 1 PER SECTOR
- INSTALL (4) QD4616-7 PANEL ANTENNAS, TYP. 1 PER SECTOR
- INSTALL (4) RRU8 8843 B2/B66A NEAR ANTENNAS, TYP. 1 PER SECTOR
- INSTALL (4) RRU8 4449 B5/B12 NEAR ANTENNAS, TYP. 1 PER SECTOR
- INSTALL (4) RRU8 4426 B66 NEAR ANTENNAS, TYP. 1 PER SECTOR
- INSTALL (4) RRU8 4478 B14 NEAR ANTENNAS, TYP. 1 PER SECTOR
- INSTALL (4) RRU8 4415 B30 NEAR ANTENNAS, TYP. 1 PER SECTOR
- INSTALL (4) DC9 SURGE SUPPRESSORS NEAR ANTENNAS, TYP. 1 PER SECTOR
- INSTALL (4) NEW RRU BACK TO BACK MOUNTS, TYP. 1 PER SECTOR
- INSTALL (2) NEW 16'-0"x15'-0" FRP SCREENS
- INSTALL (1) NEW 28'-4"x8'-11"x22'-3"x31'-0"x22'-3"x26'-11"x17'-0"x12'-3"x11'-4" FRP SCREENING
- INSTALL (12) NEW #6 AWG DC POWER TRUNKS WITHIN NEW CABLE TRAY
- INSTALL (4) NEW FIBER TRUNKS WITHIN NEW CABLE TRAY
- INSTALL (8) NEW 2"Ø CONDUITS FOR POWER/FIBER CABLES TO ANTENNAS
- INSTALL (4) NEW 1"Ø CONDUITS FOR GROUNDING

EQUIPMENT SOW:

- REMOVE (3) (E) 16'-0" SECTION OF MECHANICAL SCREENING & REPLACE WITH FRP PANELS
- INSTALL (1) NEW 20'X12' EQUIPMENT PLATFORM
- INSTALL (1) NEW SUB METER
- INSTALL (1) NEW DISCONNECT SWITCH ON NEW H-FRAME
- INSTALL (1) NEW VERTIV 512 DCPD ON EQUIPMENT PLATFORM
- INSTALL (1) RECTIFIERS WITHIN NEW DCPD
- INSTALL (3) STRINGS OF 190AH BATTERIES WITHIN NEW DCPD CABINET
- INSTALL (1) NEW VERTIV BATTERY CABINET ON EQUIPMENT PLATFORM
- INSTALL (4) STRINGS OF 190AH BATTERIES WITHIN NEW BATTERY CABINET
- INSTALL (2) NEW H-FRAME MOUNTED ON EQUIPMENT PLATFORM
- INSTALL (1) NEW DC50 SURGE SUPPRESSOR BOX MOUNTED ON NEW H-FRAME
- INSTALL (1) NEW GPS UNIT MOUNTED ON NEW H-FRAME
- INSTALL (1) NEW 200 AMP PPC MOUNTED ON NEW H-FRAME
- INSTALL (1) NEW CIENA AND (1) HOFFMAN BOX ON NEW H-FRAME
- INSTALL (1) NEW GENPLUG AT GRADE
- INSTALL (1) NEW FIRE EXTINGUISHER
- INSTALL (1) NEW PURCELL FLX-42 CABINET
- INSTALL (2) 6651 BBU AND (1) SIAD WITHIN NEW PURCELL CABINET
- INSTALL (1) 2"Ø POWER, (1) 2"Ø FOR GENPLUG, (1) 1.5"Ø GROUNDING & 2"Ø FIBER CONDUITS ROUTED FROM UTILITY POC'S LOCATED AT FIRST FLOOR OF BUILDING TO STACKED IUD ROOMS LEADING TO ROOFTOP

APPLICANT:  
  
 5001 EXECUTIVE PARKWAY  
 SAN RAMON, CA 94583

VENDOR:  
  
 P. MARSHALL & ASSOCIATES  
 A CENTERLINE COMMUNICATIONS COMPANY  
 1000 HOLCOMB WOODS PKWY, STE. 210  
 ROSWELL, GA 30076  
 OFFICE: (678) 280-2325

SITE INFORMATION:  
**CCL05865**  
 ROUND BARN  
 3562 ROUND BARN CIRCLE  
 SANTA ROSA, CA 95403

REV	DATE	DESCRIPTION	INT.	SMR	SMR	SMR	AP	BH	NW3
A	12/12/23	ISSUED FOR 90%ZDS							
B	01/10/24	ISSUED FOR 95%ZDS							
C	03/19/24	REV. 95%ZDS (NEW RFDS)							
0	03/21/24	100%ZDS							
1	04/23/24	REVISED 100%ZDS							
2	08/05/24	REVISED 100%ZDS							

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PROFESSIONAL STAMP:  
 It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document

SHEET TITLE:  
**T-1**

SHEET NAME:  
**TITLE SHEET**

PROJECT TEAM

APPLICANT / LESSEE:  
 AT&T  
 5001 EXECUTIVE PARKWAY  
 SAN RAMON, CA 94583

A&E MANAGER:  
 P.MARSHALL & ASSOCIATES, LLC (PM&A)  
 CONTACT: STEVEN M. RAMON  
 EMAIL: SRAMON@PMASS.COM

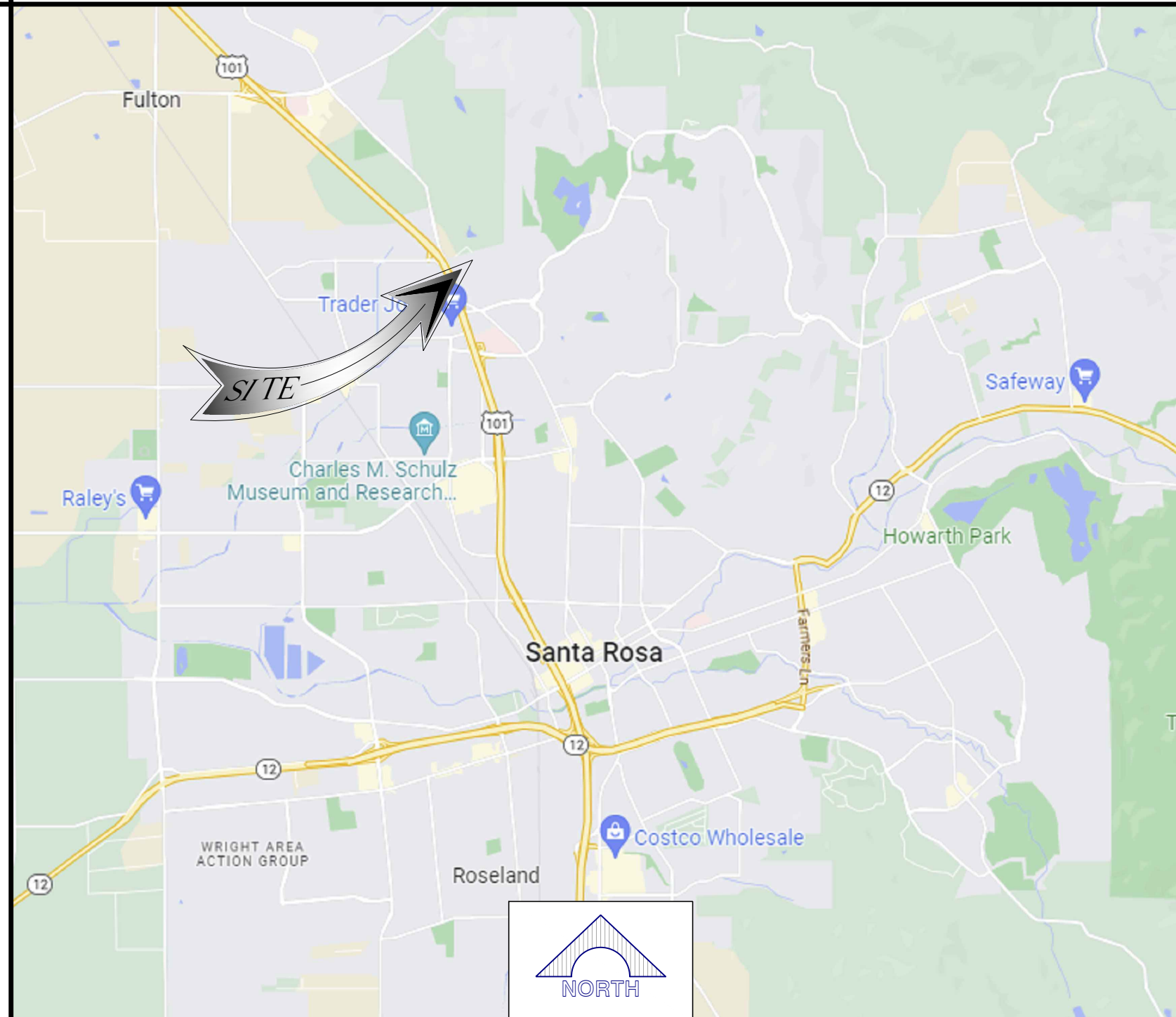
PLANNING MANAGER:  
 CENTERLINE COMMUNICATIONS  
 contact: PAMELA NOBEL  
 email: pnobel@clinelc.com  
 ph: (707) 486-7252

RFDS VERSION: 1.0  
 DATE CREATED: 01/25/2023  
 DATE UPDATED: 03/05/2024

SITE ACQUISITION MANAGER:  
 CENTERLINE COMMUNICATIONS  
 CONTACT: AARON DE LA O  
 EMAIL: adelao@clinelc.com  
 CELL: (916) 792-8686

RF ENGINEER:  
 CONTACT: AHMAD WAQAS  
 FIELD COORDINATOR  
 EMAIL: AW564B@ATT.COM  
 PH: (571) 352-9871

VICINITY MAP



CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND 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.

- CALIFORNIA BUILDING STANDARDS CODE: 2022 TRIENNIAL EDITION OF TITLE 24, WITH AN EFFECTIVE DATE OF JANUARY 1, 2023.  
 PART 1 - CALIFORNIA ADMINISTRATIVE CODE  
 PART 2 - CALIFORNIA BUILDING CODE, BASED ON THE 2021 INTERNATIONAL BUILDING CODE  
 PART 2.5 - CALIFORNIA RESIDENTIAL CODE, BASED ON THE 2021 INTERNATIONAL RESIDENTIAL CODE  
 PART 3 - CALIFORNIA ELECTRICAL CODE, BASED ON THE 2020 NATIONAL ELECTRICAL CODE  
 PART 4 - CALIFORNIA MECHANICAL CODE, BASED ON THE 2021 UNIFORM MECHANICAL CODE  
 PART 5 - CALIFORNIA PLUMBING CODE, BASED ON THE 2021 UNIFORM PLUMBING CODE  
 PART 6 - CALIFORNIA ENERGY CODE  
 PART 7 - VACANT  
 PART 8 - CALIFORNIA HISTORICAL BUILDING CODE  
 PART 9 - CALIFORNIA FIRE CODE, BASED ON THE 2021 INTERNATIONAL FIRE CODE  
 PART 10 - CALIFORNIA EXISTING BUILDING CODE, BASED ON THE 2021 INTERNATIONAL EXISTING BUILDING CODE  
 PART 11 - CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSC; ALSO KNOWN AS CALGREEN)  
 PART 12 - CALIFORNIA REFERENCED STANDARDS CODE
- ANSI/TIA-222 (REV H)
- 2021 NFPA 101, LIFE SAFETY CODE
- 2022 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE
- 2022 NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

SITE INFORMATION

PROPERTY OWNER:  
 FOUNTAIN GROVE EXECUTIVE CENTER LLC  
 316 CALIFORNIA AVENUE SUITE 350  
 RENO, NV 89509

POWER AGENCY:  
 TBD  
 PH: TBD  
 TELEPHONE AGENCY:  
 AT&T

JURISDICTION: CITY OF SANTA ROSA  
 A.P.N.: 173-020-050  
 CURRENT ZONING: PD 72-001-RC  
 EXISTING USE: MULTIUSE  
 PROPOSED USE: MULTIUSE, COMMUNICATIONS FACILITY  
 LATITUDE (NAD 83): 38.480202  
 LONGITUDE (NAD 83): -122.730917

ACCESSIBILITY REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. ACCESSIBILITY IS NOT REQUIRED PER CFC2022, SECTION 1207 (LIMITED ACCESS SPACE)

GENERAL CONTRACTOR NOTES

DO NOT SCALE DRAWINGS

THESE PLANS ARE FORMATTED TO BE FULL SIZE AT 24" X 36". CONTRACTORS SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME.

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

STATEMENTS

STRUCTURAL ANALYSIS IS NOT WITHIN THE SCOPE OF WORK CONTAINED IN THIS DRAWINGS SET. FOR ANALYSIS OF EXISTING AND/OR PROPOSED COMPONENTS, REFER TO STRUCTURAL ANALYSIS PROVIDED UNDER SEPARATE COVER.

ANTENNA MOUNT ANALYSIS IS NOT WITHIN THE SCOPE OF WORK CONTAINED IN THIS DRAWING SET. FOR ANALYSIS OF MOUNT TO SUPPORT EXISTING AND/OR PROPOSED COMPONENTS, REFER TO ANTENNA MOUNT STRUCTURAL ANALYSIS PROVIDED UNDER SEPARATE COVER.

DRIVING DIRECTIONS

FROM: AT&T CORPORATE OFFICES  
 5005 EXECUTIVE PKWY  
 SAN RAMON, CA 94583

TO: 3562 ROUND BARN CIRCLE  
 SANTA ROSA, CA 95403



GENERAL CONSTRUCTION NOTES:

- PLANS ARE INTENDED TO BE DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC / UBC'S REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, LIGHT FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
- REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT / ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT / ENGINEER.
- THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
- DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
- ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT / ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
- CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT / ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT / ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
- ANY DRAIN AND/OR FIELD TILE ENCOUNTERED / DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT / ENGINEER AT COMPLETION OF PROJECT.
- ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.

APPLICABLE CODES, REGULATIONS AND STANDARDS:

- SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.
- THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
- SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
  - AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
  - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, 15TH EDITION
  - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
  - INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT.
  - IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
  - TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS TELCORDIA GR-63 NETWORK
  - EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
  - TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
  - TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
  - TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS
  - ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS
  - FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

A.B. ABOVE  
 ABV. ABOVE  
 ACCA ADD'L  
 ADD'L ABOVE FINISHED FLOOR  
 A.F.F. ABOVE FINISHED GRADE  
 A.F.G. ALUM.  
 ALUM. ALT.  
 ALT. ANT.  
 ANT. APPRX.  
 APPRX. ARCH.  
 ARCH. AWG.  
 AWG. BLDG.  
 BLDG. BLK.  
 BLK. BLKG.  
 BLKG. BM.  
 BM. B.N.  
 B.N. BTCW.  
 BTCW. B.O.F.  
 B.O.F. B/U  
 B/U CAB.  
 CAB. CANT.  
 CANT. C.I.P.  
 C.I.P. CLG.  
 CLG. CLR.  
 CLR. COL.  
 COL. CONC.  
 CONC. CONN.  
 CONN. CONST.  
 CONST. CONT.  
 CONT. d  
 DBL. DBL.  
 DBL. DEPT.  
 DEPT. D.F.  
 D.F. DIA.  
 DIA. DIAG.  
 DIAG. DIM.  
 DIM. DWG.  
 DWG. DWL.  
 DWL. EA.  
 EA. EL.  
 EL. ELEC.  
 ELEC. ELEV.  
 ELEV. EMT.  
 EMT. E.N.  
 E.N. ENG.  
 ENG. EQ.  
 EQ. EXP.  
 EXP. EXST.(E)  
 EXST.(E) EXT.  
 EXT. FAB.  
 FAB. F.F.  
 F.F. F.G.  
 F.G. FIN.  
 FIN. FLR.  
 FLR.

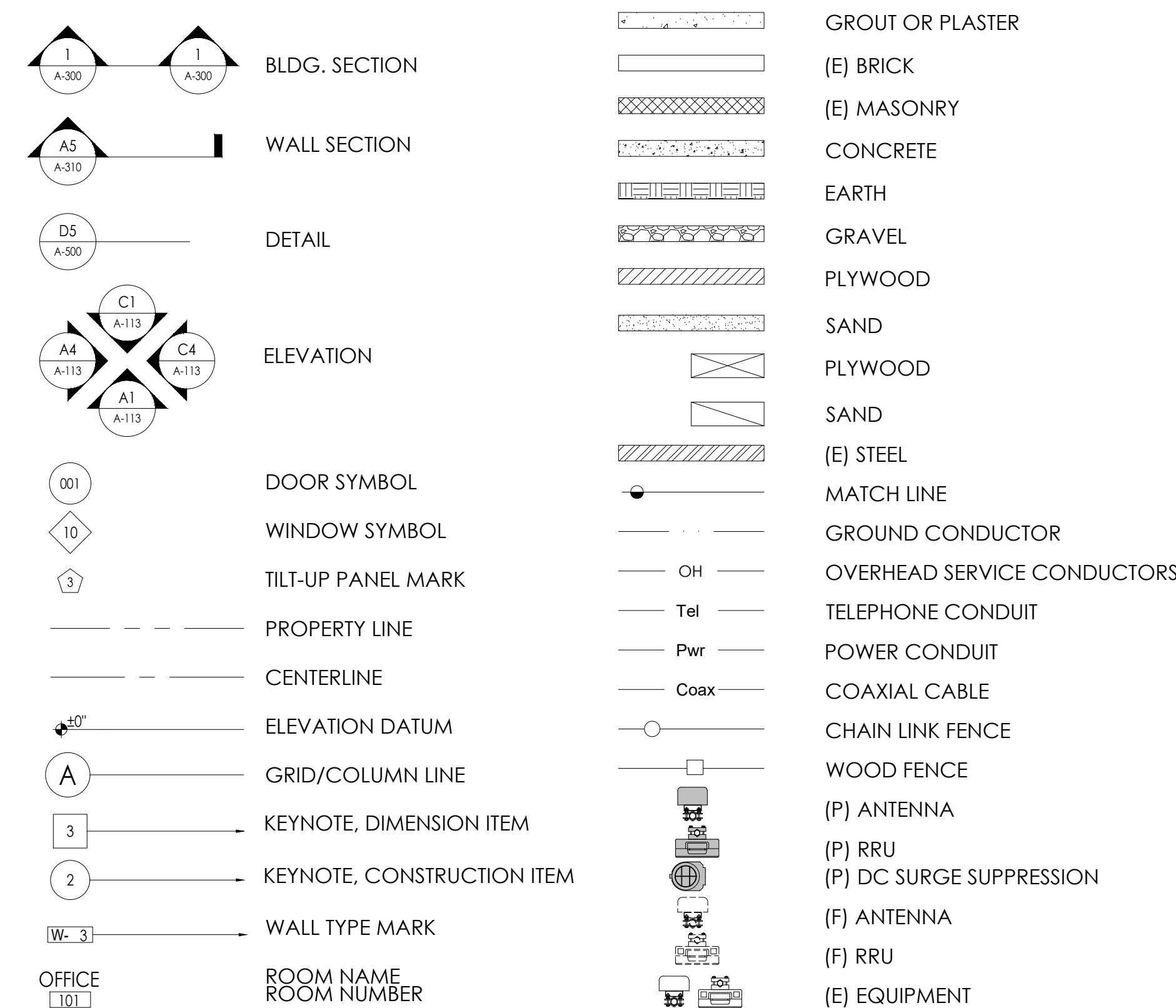
ANCHOR BOLT  
 ABOVE ANTENNA  
 ANTENNA CABLE COVER ASSEMBLY  
 ADDITIONAL ABOVE FINISHED FLOOR  
 ABOVE FINISHED GRADE ALUMINUM  
 ALUMINUM ALTERNATE  
 ALTERNATE ANTENNA  
 ANTENNA APPROXIMATE(LY)  
 APPROXIMATE(LY) ARCHITECT(JURAL)  
 ARCHITECT(JURAL) AMERICAN WIRE GAUGE  
 AMERICAN WIRE GAUGE BUILDING  
 BUILDING BLOCK BLOCKING  
 BLOCKING BEAM  
 BEAM BOUNDARY NAILING  
 BOUNDARY NAILING BARE TINNED COPPER WIRE  
 BARE TINNED COPPER WIRE BOTTOM OF FOOTING  
 BOTTOM OF FOOTING BACK-UP CABINET  
 BACK-UP CABINET CABINET  
 CABINET CANTILEVER(ED)  
 CANTILEVER(ED) CAST IN PLACE  
 CAST IN PLACE CEILING  
 CEILING CLEAR  
 CLEAR COLUMN  
 COLUMN CONCRETE  
 CONCRETE CONNECTION(OR)  
 CONNECTION(OR) CONSTRUCTION  
 CONSTRUCTION CONTINUOUS  
 CONTINUOUS PENNY (NAILS)  
 PENNY (NAILS) DOUBLE  
 DOUBLE DEPARTMENT  
 DEPARTMENT DOUGLAS FIR  
 DOUGLAS FIR DIAMETER  
 DIAMETER DIAGONAL  
 DIAGONAL DIMENSION  
 DIMENSION DRAWING(S)  
 DRAWING(S) DOWEL(S)  
 DOWEL(S) EA.  
 EA. ELEVATION  
 ELEVATION ELECTRICAL  
 ELECTRICAL ELEVATOR  
 ELEVATOR ELECTRICAL METALLIC TUBING  
 ELECTRICAL METALLIC TUBING EDGE NAIL  
 EDGE NAIL ENGINEER  
 ENGINEER EQUAL  
 EQUAL EXPANSION  
 EXPANSION EXISTING  
 EXISTING EXTERIOR  
 EXTERIOR FABRICATION(OR)  
 FABRICATION(OR) FINISH FLOOR  
 FINISH FLOOR FINISH GRADE  
 FINISH GRADE FINISH(ED)  
 FINISH(ED) FLOOR  
 FLOOR

FDN. FOUNDATION  
 F.O.C. FACE OF CONCRETE  
 FACE OF CONCRETE F.O.M.  
 F.O.M. FACE OF MASONRY  
 FACE OF MASONRY F.O.S.  
 F.O.S. FACE OF STUD  
 FACE OF STUD F.O.W.  
 F.O.W. FACE OF WALL  
 FACE OF WALL F.S.  
 F.S. FINISH SURFACE  
 FINISH SURFACE FT.( ' )  
 ( ' ) FOOT (FEET)  
 FOOT (FEET) FTG.  
 FTG. FOOTING  
 FOOTING G.  
 G. GROWTH (CABINET)  
 GROWTH (CABINET) GA.  
 GA. GAUGE  
 GAUGE GI.  
 GI. GALVANIZE(D)  
 GALVANIZE(D) G.F.I.  
 G.F.I. GROUND FAULT CIRCUIT  
 GROUND FAULT CIRCUIT INTERRUPTER  
 INTERRUPTER GLB. (GLU-LAM)  
 (GLU-LAM) GLUE LAMINATED BEAM  
 GLUE LAMINATED BEAM GPS  
 GPS GLOBAL POSITIONING SYSTEM  
 GLOBAL POSITIONING SYSTEM GRND.  
 GRND. GROUND  
 GROUND HDR.  
 HDR. HEADER  
 HEADER HGR.  
 HGR. HANGER  
 HANGER HT.  
 HT. HEIGHT  
 HEIGHT I.CGB.  
 I.CGB. ISOLATED COPPER GROUND BUS  
 ISOLATED COPPER GROUND BUS IN. ( " )  
 ( " ) INCH(ES)  
 INCH(ES) INT.  
 INT. INTERIOR  
 INTERIOR LB.(#)  
 (#) POUND(S)  
 POUND(S) L.B.  
 L.B. LAG BOLTS  
 LAG BOLTS L.F.  
 L.F. LINEAR FEET (FOOT)  
 LINEAR FEET (FOOT) L.  
 L. LONG(ITUDINAL)  
 LONG(ITUDINAL) MAS.  
 MAS. MASONRY  
 MASONRY MAX.  
 MAX. MAXIMUM  
 MAXIMUM M.B.  
 M.B. MACHINE BOLT  
 MACHINE BOLT MECH.  
 MECH. MECHANICAL  
 MECHANICAL MFR.  
 MFR. MANUFACTURER  
 MANUFACTURER MIN.  
 MIN. MINIMUM  
 MINIMUM MISC.  
 MISC. MISCELLANEOUS  
 MISCELLANEOUS MTL.  
 MTL. METAL  
 METAL (N)  
 (N) NEW  
 NEW NO.(#)  
 (#) NUMBER  
 NUMBER N.T.S.  
 N.T.S. NOT TO SCALE  
 NOT TO SCALE O.C.  
 O.C. ON CENTER  
 ON CENTER OPNG.  
 OPNG. OPENING  
 OPENING P/C  
 P/C PRECAST CONCRETE  
 PRECAST CONCRETE PCS  
 PCS PERSONAL COMMUNICATION  
 PERSONAL COMMUNICATION PLY.  
 PLY. PLYWOOD  
 PLYWOOD PPC  
 PPC POWER PROTECTION CABINET  
 POWER PROTECTION CABINET PRC  
 PRC PRIMARY RADIO CABINET  
 PRIMARY RADIO CABINET P.S.F.  
 P.S.F. POUNDS PER SQUARE FOOT  
 POUNDS PER SQUARE FOOT P.S.I.  
 P.S.I. POUNDS PER SQUARE INCH  
 POUNDS PER SQUARE INCH P.T.  
 P.T. PRESSURE TREATED  
 PRESSURE TREATED PWR.  
 PWR. POWER (CABINET)  
 POWER (CABINET) QTY.  
 QTY. QUANTITY  
 QUANTITY RAD.(R)  
 (R) RADIUS  
 RADIUS REF.  
 REF. REFERENCE  
 REFERENCE REINF.  
 REINF. REINFORCEMENT(ING)  
 REINFORCEMENT(ING) REQ'D/  
 REQ'D/ REQUIRED  
 REQUIRED RGS.  
 RGS. RIGID GALVANIZED STEEL  
 RIGID GALVANIZED STEEL

ABBREVIATIONS:

SCH. SCHEDULE  
 SHT. SHEET  
 SIM. SIMILAR  
 SPEC. SPECIFICATIONS  
 SQ. SQUARE  
 S.S. STAINLESS STEEL  
 STD. STANDARD  
 STL. STEEL  
 STRUC. STRUCTURAL  
 TEMP. TEMPORARY  
 THK. THICK(NESS)  
 T.N. TOE NAIL  
 T.O.A. TOP OF ANTENNA  
 T.O.C. TOP OF CURB  
 T.O.F. TOP OF FOUNDATION  
 T.O.P. TOP OF PLATE (PARAPET)  
 T.O.S. TOP OF STEEL  
 T.O.W. TOP OF WALL  
 TYP. TYPICAL  
 U.G. UNDER GROUND  
 U.L. UNDERWRITERS LABORATORY  
 U.N.O. UNLESS NOTED OTHERWISE  
 V.I.F. VERIFY IN FIELD  
 W WITH  
 W/W WITH  
 WD. WOOD  
 W.P. WEATHERPROOF  
 WT. WEIGHT  
 © CENTERLINE  
 P PLATE, PROPERTY LINE

SYMBOLS LEGEND:



APPLICANT:  
  
 5001 EXECUTIVE PARKWAY  
 SAN RAMON, CA 94583

VENDOR:  
  
**P. MARSHALL & ASSOCIATES**  
 A CENTERLINE COMMUNICATIONS COMPANY  
 1000 HOLCOMB WOODS PKWY, STE 210  
 ROSWELL, GA 30076  
 OFFICE: (678) 280-2325

SITE INFORMATION:  
**CCL05865**  
 ROUND BARN  
 3562 ROUND BARN CIRCLE  
 SANTA ROSA, CA 95403

DESIGN RECORD:

REV	DATE	DESCRIPTION	INT.	SMR	SMR	SMR	AP	BH	NW3
A	12/12/23	ISSUED FOR 90%ZDS							
B	01/10/24	ISSUED FOR 95%ZDS							
C	03/19/24	REV. 95%ZDS (NEW RFDS)							
0	03/21/24	100%ZDS							
1	04/23/24	REVISED 100%ZDS							
2	08/05/24	REVISED 100%ZDS							

PROFESSIONAL STAMP:  
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SHEET TITLE:  
**GN-1**

SHEET NAME:  
**GENERAL NOTES**

COMPLIANCE WITH CFC 2022 SECTION 1207 - OUTDOOR BATTERY SYSTEMS

**1207.4 GENERAL INSTALLATIONS REQUIREMENTS**

**1207.4.1 ELECTRICAL DISCONNECTS:**

IN ACCORDANCE WITH SECTION 1207.4.1, THE ESS IS UNDER THE EXCLUSIVE CONTROL OF A COMMUNICATIONS FACILITY AND WILL HAVE ELECTRICAL DISCONNECT SIGNAGE IN ACCORDANCE WITH NFPA 76. SEE EMERGENCY SHUT DOWN AND BACK UP BATTERY DISCONNECT SIGNAGE ON SITE SIGNAGE SHEET IN THIS DRAWING SET.

**1207.4.2 WORKING CLEARANCES:**

IN ACCORDANCE WITH SECTION 1207.4.2, THE ESS WILL MAINTAIN PROPER WORKING CLEARANCES AS PRESCRIBED BY THE CALIFORNIA ELECTRICAL CODE AND THE MANUFACTURER'S INSTRUCTIONS.

**1207.4.4 SEISMIC AND STRUCTURAL DESIGN:**

IN ACCORDANCE WITH SECTION 1207.4.4, THE ESS WILL NOT EXCEED THE FLOOR LOADING LIMITATION OF THE BUILDING, REFERENCE PASSING STRUCTURAL ANALYSIS REPORT UNDER SEPARATE COVER.

**1207.4.5 VEHICLE IMPACT PROTECTION:**

THE ESS CABINETS ARE LOCATED IN AN UNOCCUPIED AND UNMANNED OUTDOOR TELECOMMUNICATIONS FACILITY AND IS NOT SUBJECT TO IMPACT BY VEHICLES. SHOULD THE ESS BE SUBJECT TO POTENTIAL IMPACT BY VEHICLES, IMPACT PROTECTION SHALL BE IN PLACE IN ACCORDANCE WITH SECTION 312.

**1207.4.6 COMBUSTIBLE STORAGE:**

IN ACCORDANCE WITH SECTION 1207.4.6, NO COMBUSTIBLE MATERIALS WILL BE STORED WITHIN 3' OF THE BATTERY CABINETS.

**1207.4.7 TOXIC AND HIGHLY TOXIC GASES:**

THE ESS BATTERY CABINET IS LOCATED OUTDOORS AND IS NATURALLY VENTILATED, NO EXHAUST SYSTEM IS REQUIRED.

**1207.4.8 SIGNAGE:**

IN ACCORDANCE WITH SECTION 1207.4.8, HAZARD SIGNAGE WILL BE PLACED AT THE BATTERY STORAGE SYSTEM INDICATING "DANGER", "LEAD ACID BATTERIES", "CORROSIVE LIQUIDS", ENERGIZED ELECTRICAL CIRCUITS", "NO SMOKING". SEE SITE SIGNAGE SHEET IN THIS DRAWING SET.

**1207.4.9 SECURITY OF INSTALLATIONS:**

IN ACCORDANCE WITH SECTION 1207.4.9, THE BATTERY CABINETS AND ENCLOSURES WILL BE LOCKED AND SECURED AGAINST UNAUTHORIZED ENTRY.

**1207.4.10 OCCUPIED WORK CENTERS:**

THE TELECOMMUNICATIONS FACILITY AND IT'S ESS IS UNMANNED AND NOT OCCUPIED BY ANY PERSONNEL OTHER THAN THOSE DIRECTLY INVOLVED IN ITS MAINTENANCE.

**1207.4.11 OPEN RACK INSTALLATIONS:**

THE TELECOMMUNICATIONS FACILITY/CABINETS ARE LOCKED AND ONLY AUTHORIZED PERSONNEL HAVE ACCESS TO THE FACILITY AND ESS.

**1207.4.12 WALK-IN UNITS:**

WALK-IN UNITS SHALL BE ENTERED ONLY FOR INSPECTION, MAINTENANCE AND REPAIR OF ESS UNITS AND ANCILLARY EQUIPMENT, AND ARE NOT OCCUPIED FOR ANY OTHER PURPOSES.

**1207.8.3 CLEARANCE TO EXPOSURES:**

IN ACCORDANCE WITH SECTION 1207.8.3, THE ESS IS IN A WEATHERPROOF ENCLOSURE CONSTRUCTED OF NONCOMBUSTIBLE MATERIALS AND IS AT LEAST 10' FROM ANY LOT LINES, PUBLIC WAYS, BUILDINGS, STORED COMBUSTIBLE MATERIALS, HAZARDOUS MATERIALS, HIGH-PILED STOCK, OR OTHER EXPOSURE HAZARDS.

**1207.5.5 FIRE SUPPRESSION SYSTEMS**

THE ESS IS FOR A LEAD-ACID BATTERY SYSTEMS UNDER THE EXCLUSIVE CONTROL OF A COMMUNICATIONS UTILITY THAT OPERATE AT LESS THAN 50 VAC AND 60 VDC. ADDITIONALLY, THE ESS IS LOCATED OUTDOORS AND DOES NOT REQUIRE AN AUTOMATIC FIRE SUPPRESSION SYSTEM.

**1207.5.5.1 WATER-REACTIVE SYSTEMS:**

THE ESS IS A VALVE REGULATED LEAD ACID (VRLA) BATTERY SYSTEM THAT DOES NOT UTILIZE WATER-REACTIVE MATERIALS.

**1207.5.2 MAXIMUM ALLOWABLE QUANTITIES:**

THE ESS IS A VALVE REGULATED LEAD ACID (VRLA) BATTERY SYSTEM AND PER TABLE 1207.5 THE MAXIMUM ALLOWABLE QUANTITY IS "UNLIMITED".

**1207.5.8 MEANS OF EGRESS SEPARATION:**

IN ACCORDANCE WITH SECTION 1207.5.8, THE ESS IS LOCATED A MINIMUM OF 10' AWAY FROM ANY MEANS OF EGRESS AND DOES NOT OBSTRUCT OR IMPEDE SAFE EGRESS UNDER FIRE CONDITIONS.

**1207.5.1 SIZE AND SEPARATION:**

PER EXCEPTION 1 IN SECTION 1207.5.1, THE ESS IS A LEAD-ACID BATTERY SYSTEM WHICH IS UNDER THE EXCLUSIVE CONTROL OF A COMMUNICATIONS UTILITY AND IS IN COMPLIANCE WITH NFPA 76.

**1207.6.1 EXHAUST VENTILATION:**

THE CABINETS CONTAINING BATTERIES ARE OUTDOORS AND MEET VENTILATION REQUIREMENTS. THE ESS IS ALSO UNDER THE EXCLUSIVE CONTROL OF A COMMUNICATIONS UTILITY AND IS UNDER THE 1,000 GALLON THRESHOLD NOTED IN SECTION 1207.6.2.3.

**1207.6.2 SPILL CONTROL AND NEUTRALIZATION:**

IN COMPLIANCE WITH SECTION 1207.6.2 OF THE 2022 CALIFORNIA FIRE CODE, A SPILL CONTAINMENT SYSTEM KIT WILL BE STORED AT THE LEASE AREA. THE ESS IS ALSO UNDER THE EXCLUSIVE CONTROL OF A COMMUNICATIONS UTILITY AND IS UNDER THE 1,000 GALLON THRESHOLD NOTED IN SECTION 1207.6.2.3.

**1207.6.2.1 SPILL CONTROL:**

THE ESS IS STORED IN CABINETS WHICH COME EQUIPPED WITH SPILL CONTROL TRAYS WHICH ARE CAPABLE OF CONTAINING MORE THAN THE SINGLE LARGEST BATTERY OR VESSEL STORED IN THE CABINET. THE ESS IS ALSO UNDER THE EXCLUSIVE CONTROL OF A COMMUNICATIONS UTILITY AND IS UNDER THE 1,000 GALLON THRESHOLD NOTED IN SECTION 1207.6.2.3.

**1207.6.2.2 NEUTRALIZATION:**

SEE RESPONSE FOR SECTION 1207.6.2 ABOVE, A SPILL CONTAINMENT SYSTEM KIT WILL BE STORED AT THE LEASE AREA. THE ESS IS ALSO UNDER THE EXCLUSIVE CONTROL OF A COMMUNICATIONS UTILITY AND IS UNDER THE 1,000 GALLON THRESHOLD NOTED IN SECTION 1207.6.2.3.

**1207.6.4 SAFETY CAPS:**

IN ACCORDANCE WITH SECTION 1207.6.4, THE PROPOSED BATTERIES SHALL BE EQUIPPED WITH SELF-RESEALING FLAME ARRESTING CAPS.

**1207.6.5 THERMAL RUNAWAY:**

IN ACCORDANCE WITH SECTION 1207.6.5, THE CABINETS CONTAINING BATTERIES SHALL CONTAIN THERMAL RUNAWAY MANAGEMENT.

**1207.5.7 VEGETATION CONTROL:**

IN ACCORDANCE WITH SECTION 1207.5.7, THE OUTDOOR ESS SHALL BE CLEARED OF COMBUSTIBLE VEGETATION AREAS WITHIN 10' ON EACH SIDE OF THE OUTDOOR ESS CABINETS. EXCEPTION FOR SINGLE SPECIMENS OF TREES, SHRUBBERY OR CULTIVATED GROUND COVER SUCH AS GREEN GRASS, IVY, SUCCULENTS OR SIMILAR PLANTS USED AS GROUND COVER PROVIDED THAT THEY DO NOT FORM A MEANS OF READILY TRANSMITTING FIRE.

Container	5-Gallon D.O.T.	20-Gallon D.O.T.	Lockable Rolling Cart with Organizers	55-Gallon D.O.T.
<b>ENVIRGUARD</b> Global Compliance Solutions				
Tyvek body coveralls	1	2	2	2
Headgear/face shield	1	2	2	2
Goggles	1	2	2	2
Rubber Gloves	1	2	2	2
pH test Kit	1	1	1	1
Duct Tape	1	1	1	1
Absorbent wipes	10	20	15	20
Hazmat disposal bags	2	2	2	3
Disposable respirator	1	2	2	2
Emergency response guidebook	1	1	1	1
NeutraSorb	5 lbs.	10 lbs.	5 lbs.	(4x) 10 lbs.
Neutralizing & absorbing Pads	3	3	5	6
SOCs		2		7
Scoop		1	1	1
Brush		1 brush	1	1 broom with collapsible handle
pH7			1 qt. bottle	16 oz. bottle.
Squeezegee				1 with collapsible handle

Spill Clean-Up Kits    Neutralizing Products    Cabinet Kits

**5-Gallon Spill Clean-up Kit**

**Kit Includes**

- 5-Gallon D.O.T. container
- 1 pair of Tyvek body coveralls
- 1 headgear/face shield
- 1 pair of goggles
- 1 pair of rubber gloves
- 1 roll of duct tape, 1 pH test kit
- 3 neutralizing & absorbing pads
- 10 absorbent wipes
- 2 hazmat disposal bags
- 1 disposable respirator
- 1 emergency response guidebook
- 5 lbs. NeutraSorb (acid absorbent & neutralizer)



**Part Number**

- SCK-5 - Also available for NiCd (SCK-5-K) applications

**Regulations In Compliance With**

- Fire Codes
- Building Codes
- OSHA 1920.178

**Specifications**

- Height: 14.5"
- Diameter: 11.25"

APPLICANT:

5001 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583

VENDOR:

**P. MARSHALL & ASSOCIATES**  
A CENTERLINE COMMUNICATIONS COMPANY  
1000 HOLCOMB WOODS PKWY, STE 210  
ROSWELL, GA 30076  
OFFICE: (678) 280-2325

SITE INFORMATION:

**CCL05865**

ROUND BARN

3562 ROUND BARN CIRCLE  
SANTA ROSA, CA 95403

DESIGN RECORD:

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2	08/05/24	REVISED 100%ZDS							

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SHEET TITLE:

**GN-2**

SHEET NAME:

**CFC 2022 SECTION 1207 COMPLIANCE**



VICINITY MAP

8. An easement for SUCH POLES, AERIAL WIRES, CABLES and incidental purposes, recorded OCTOBER 23, 1986 as INSTRUMENT NO. 1986-86595 of Official Records. In Favor of: PACIFIC GAS AND ELECTRIC COMPANY, A CALIFORNIA CORPORATION

12. The terms, provisions and easement(s) contained in the document entitled "DECLARATION OF RECIPROCAL EASEMENT AGREEMENT" recorded SEPTEMBER 01, 2004 as INSTRUMENT NO. 2004135156 of Official Records.

6. An easement shown or dedicated on the map filed or recorded as BOOK 347, PAGES 48-49 of MAPS For: EMERGENCY VEHICLE ACCESS, SEWER and incidental purposes.

FOUNTAINGROVE EXECUTIVE CENTER LLC  
173-020-050

SEE SHEET C-2

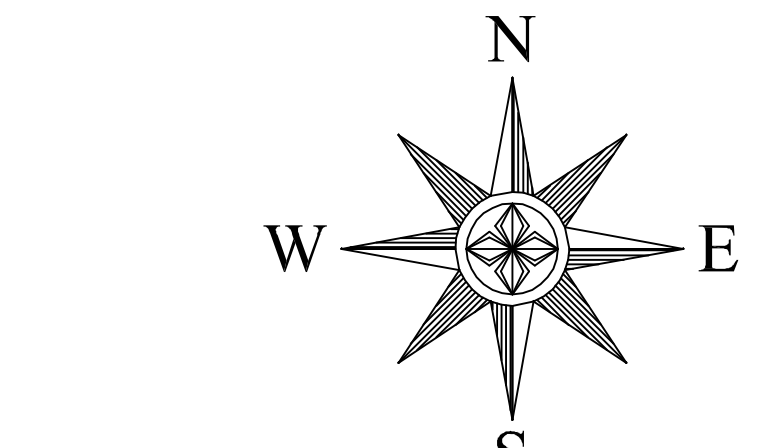
11. An easement for PRIVATE STORM DRAIN and incidental purposes, recorded MARCH 22, 2004 as INSTRUMENT NO. 2004038658 of Official Records. In Favor of: BILLA ENTERPRISES, LLC, A CALIFORNIA LIMITED LIABILITY COMPANY

9. An easement shown or dedicated on the Map as referred to in the legal description For: PUBLIC UTILITY, TEMPORARY ACCESS, SEWER, STORM DRAIN, SIDEWALK, PRIVATE SIDEWALK, PRIVATE STORM DRAIN, 7.5', 10' AND 15' UNNAMED EASEMENT and incidental purposes.

173-020-014

RESIDENTIAL BUILDING

ROUND BARN CIRCLE



OVERALL VIEW

30 SCALE

**PROPERTY INFORMATION**

OWNER: FOUNTAININGROVE EXECUTIVE CENTER LLC  
ADDRESS: 316 CALIFORNIA AVENUE STE 350 RENO, NV 89509  
SITE: ROUND BARN 3562 ROUND BARN CIRCLE SANTA ROSA, CA 95403

ASSESSOR'S PARCEL NUMBER: 173-020-050  
EXISTING GROUND ELEVATION: SE BUILDING CORNER=222.8' AMSL

**SURVEYOR'S NOTES**

ALL EASEMENTS CONTAINED IN SAID TITLE REPORT AFFECTING THE IMMEDIATE AREA SURROUNDING THE LEASE HAVE BEEN PLOTTED. SURVEYOR HAS NOT PERFORMED A SEARCH OF PUBLIC RECORDS TO DETERMINE ANY DEFECT IN TITLE ISSUED. THE BOUNDARY SHOWN HEREON IS PLOTTED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTY.

**UTILITY NOTES**

SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT U.S.A. AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/ OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

**LESSOR'S LEGAL DESCRIPTION**

ALL THAT CERTAIN REAL PROPERTY SITUATE IN THE COUNTY OF SONOMA, STATE OF CALIFORNIA. RECORDED: 2007 FM 173-020-010 & 013 PER PER 06-003.

**BENCHMARK**

ELEVATION ESTABLISHED FROM GPS DERIVED ORTHOMETRIC HEIGHTS, APPLYING GEOID 99 SEPARATIONS, CONSTRAINING TO NGS CONTROL STATION 'LUTZ' ELEVATION=450.0' (NAVD88)

**BASIS OF BEARING**

BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM STATE PLANE COORDINATE ZONE 2, DETERMINED BY GPS OBSERVATIONS.

**TITLE REPORT**

TITLE REPORT WAS PROVIDED BY FIRST AMERICAN TITLE INSURANCE COMPANY, ORDER NO: 5026900-7041707, DATED, JUNE 26, 2024.

**SURVEY DATE**

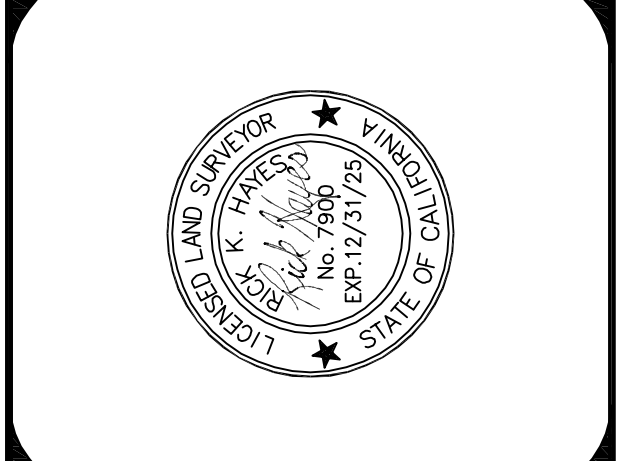
1/12/23

**LEGEND**

- |        |                      |   |                        |
|--------|----------------------|---|------------------------|
| P.O.B. | POINT OF BEGINNING   | ⊠ | WATER CONTROL VALVE    |
| PAR    | PARAPET              | ⊠ | FIRE HYDRANT           |
| GR     | GROUND SHOT          | ⊠ | GUY CONDUCTOR          |
| EP     | EDGE OF PAVEMENT     | ⊠ | FOUND AS NOTED         |
| DWY    | ACCESS DRIVEWAY      | ⊠ | POWER POLE             |
| PS     | PARKING SPACE        | ⊠ | LIGHT                  |
| SW     | SIDEWALK             | ⊠ | ELECTRICAL TRANSFORMER |
| DI     | DRAIN INLET          | ⊠ | AIR CONDITIONING UNIT  |
| SCRN   | SCREEN CLEAN OUT     | ⊠ | TELEPHONE PEDESTAL     |
| SSCO   | SEWER CLEAN OUT      | ⊠ | TELEPHONE VAULT        |
| WW     | WINDOW WASHER MOUNT  | ⊠ | TELEPHONE MANHOLE      |
| ⊠      | GEODETIC COORDINATES | ⊠ | GAS VALVE              |
| ⊠      | SPOT ELEVATION       | ⊠ | GAS METER              |
| ⊠      | DISH ANTENNA         | ⊠ | PROPERTY LINE          |
|        |                      | ⊠ | CHAINLINK FENCE        |

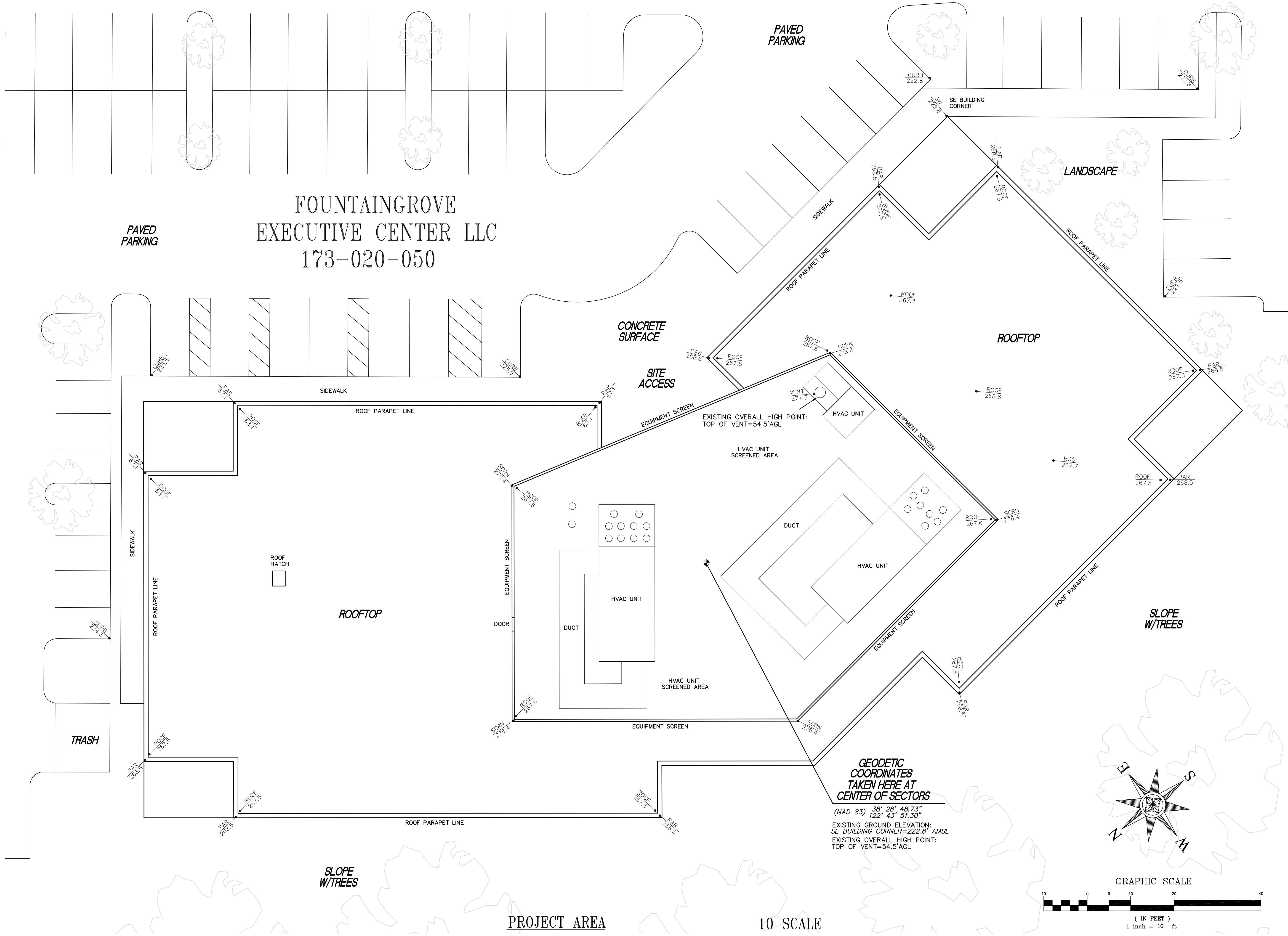
DATE	DESCRIPTION	REV.
1/12/2023	SITE PLAN	
5/04/2024	TITLE EASEMENT REVIEW	
7/29/2024	TITLE REPORT DATE	

**HAYES**  
Land Surveying  
And Mapping  
2520 MADRIGAN COURT  
CONCORD, CA 94518



**at&t**  
2600 CAMINO RAMON  
4TH FLOOR, WEST WING  
SAN RAMON, CA 94583

**TOPOGRAPHIC SURVEY EXISTING CONDITIONS**  
C-1  
SHEET 1 of 2



**ISSUE STATUS**

REV.	DESCRIPTION	DATE
1	SITE PLAN	1/12/2023
2	TITLE EASEMENT REVIEW	5/04/2024
3	TITLE REPORT DATE	7/29/2024

**HAYES**  
Land Surveying  
And Mapping  
2820 MARICAN COURT  
CONCORD, CA 94518



**at&t**

2600 CAMINO RAMON  
4TH FLOOR, WEST WING  
SAN RAMON, CA 94583

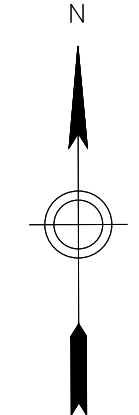
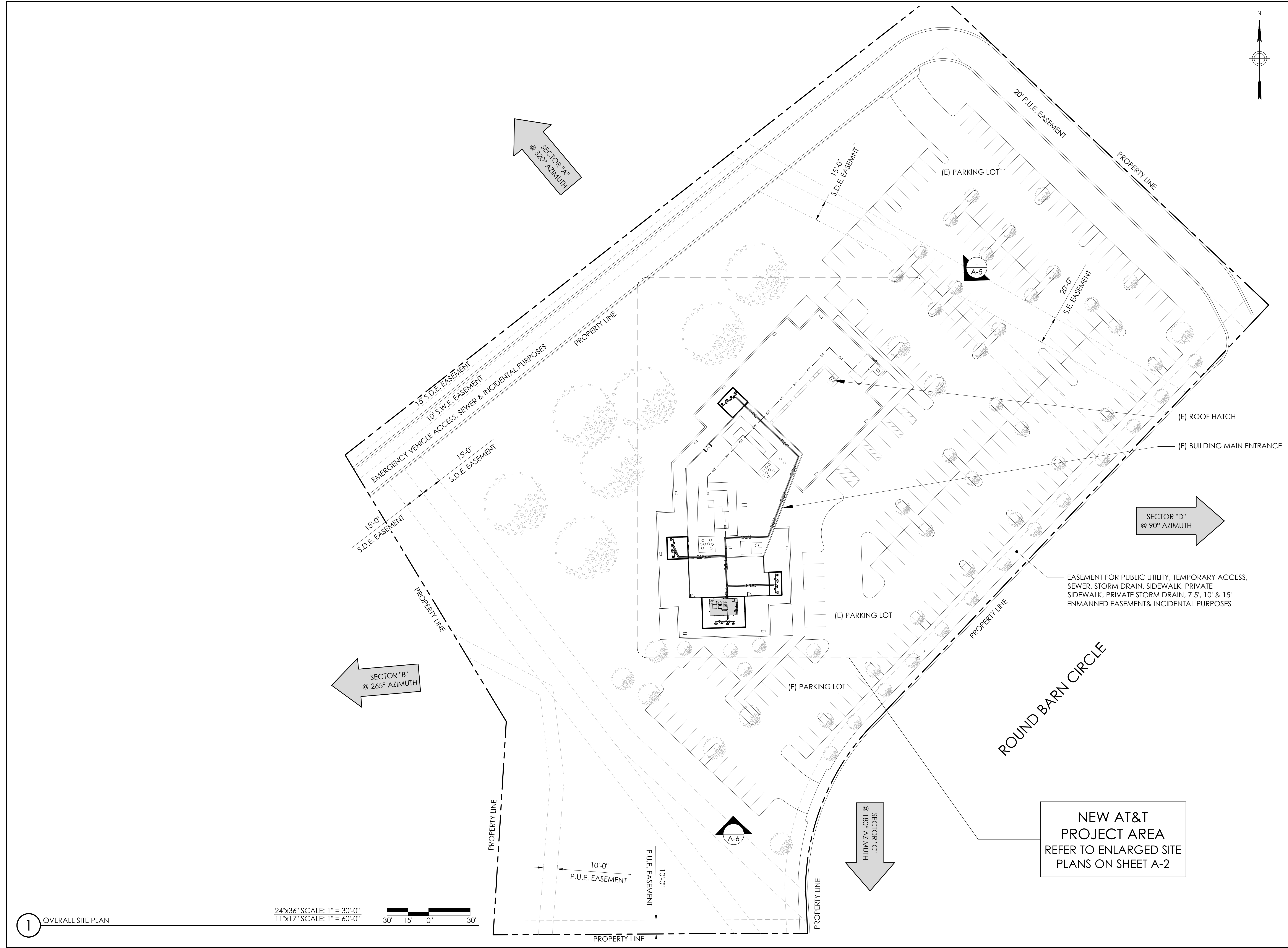
**TOPOGRAPHIC SURVEY  
EXISTING CONDITIONS**

CCL05865


ROUND BARN  
3562 ROUND BARN CIRCLE  
SANTA ROSA, CA 95403

**C-2**

**SHEET 2 of 2**



APPLICANT:



5001 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583

VENDOR:



**P. MARSHALL & ASSOCIATES**  
A CENTERLINE COMMUNICATIONS COMPANY  
1000 HOLCOMB WOODS PKWY, STE 210  
ROSWELL, GA 30076  
OFFICE: (678) 280-2325

SITE INFORMATION:

**CCL05865**

**ROUND BARN**

3562 ROUND BARN CIRCLE  
SANTA ROSA, CA 95403

DESIGN RECORD:

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B	01/10/24	ISSUED FOR 95%ZDS							
C	03/19/24	REV. 95%ZDS (NEW RFD'S)							
0	03/21/24	100%ZDS							
1	04/23/24	REVISED 100%ZDS							
2	08/05/24	REVISED 100%ZDS							

PROFESSIONAL STAMP:

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SHEET TITLE:

**A-1**

SHEET NAME:

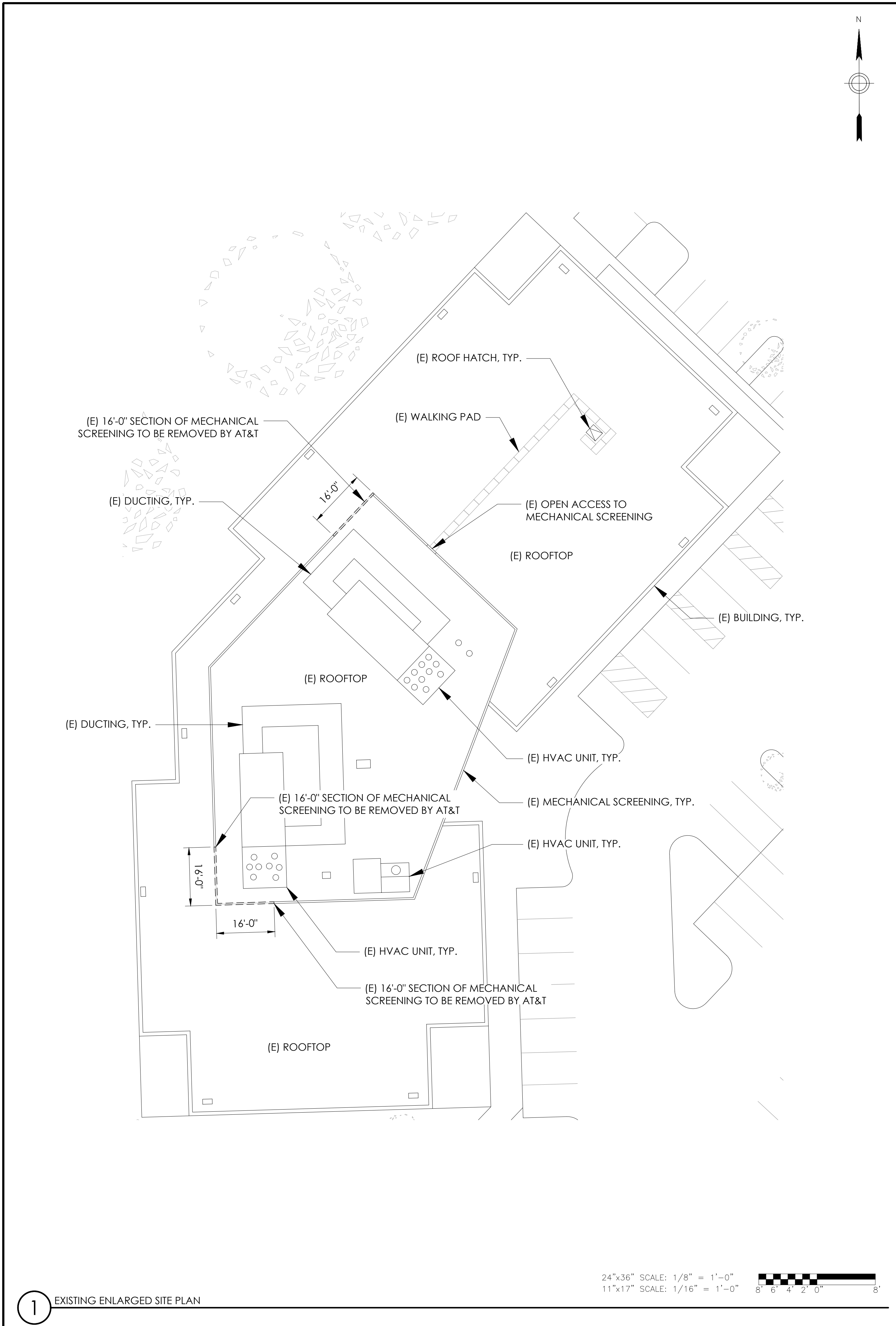
**OVERALL SITE PLAN**

1 OVERALL SITE PLAN

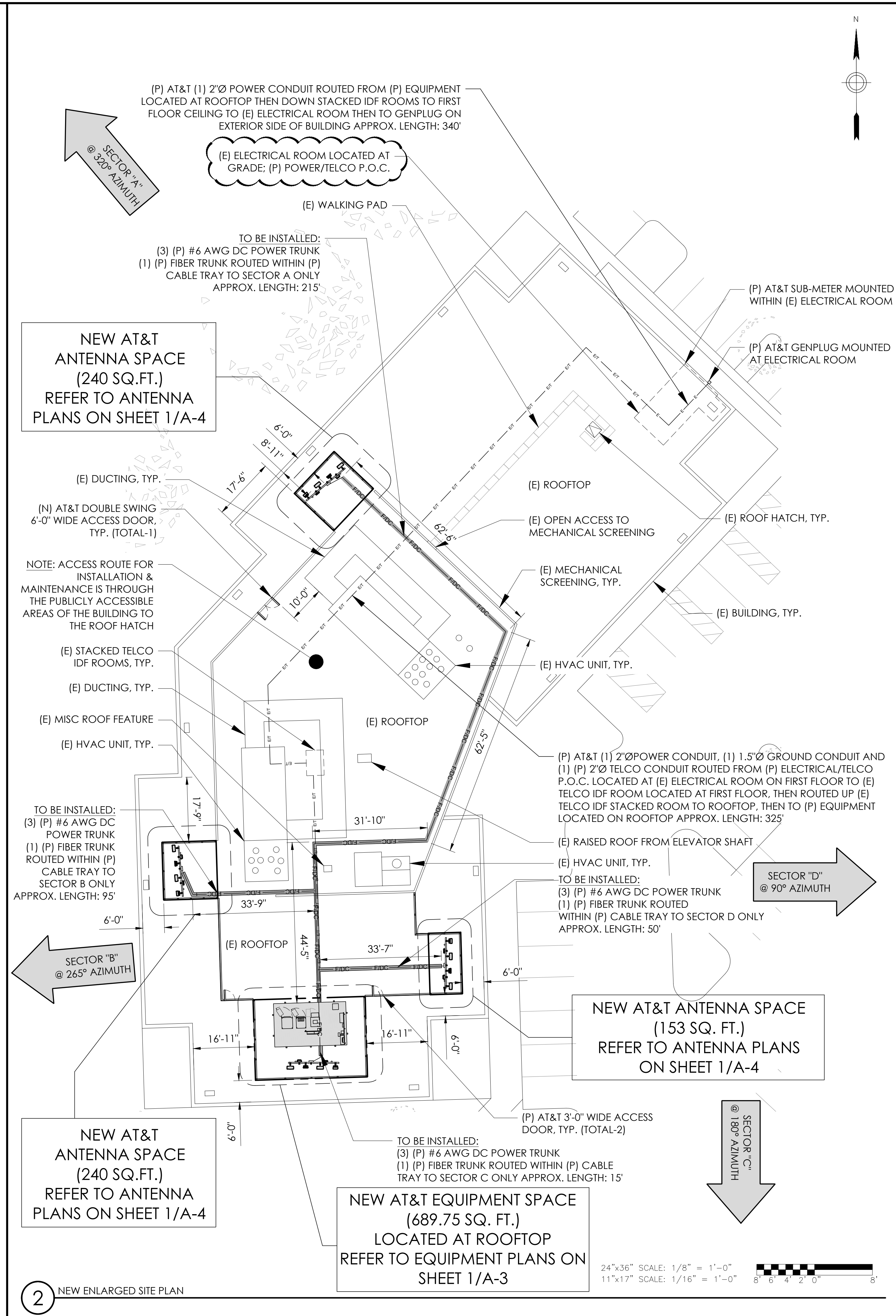
24"x36" SCALE: 1" = 30'-0"  
11"x17" SCALE: 1" = 60'-0"



NEW AT&T  
PROJECT AREA  
REFER TO ENLARGED SITE  
PLANS ON SHEET A-2



1 EXISTING ENLARGED SITE PLAN



2 NEW ENLARGED SITE PLAN

**APPLICANT:**

5001 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583

**VENDOR:**

**P. MARSHALL & ASSOCIATES**  
A CENTERLINE COMMUNICATIONS COMPANY  
1000 HOLCOMB WOODS PKWY. STE. 210  
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**SITE INFORMATION:**

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**ROUND BARN**

3562 ROUND BARN CIRCLE  
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**DESIGN RECORD:**

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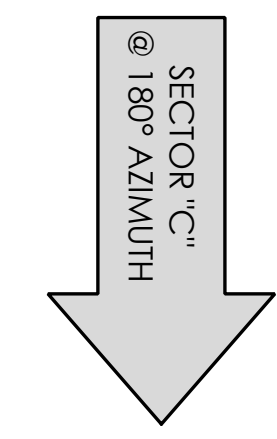
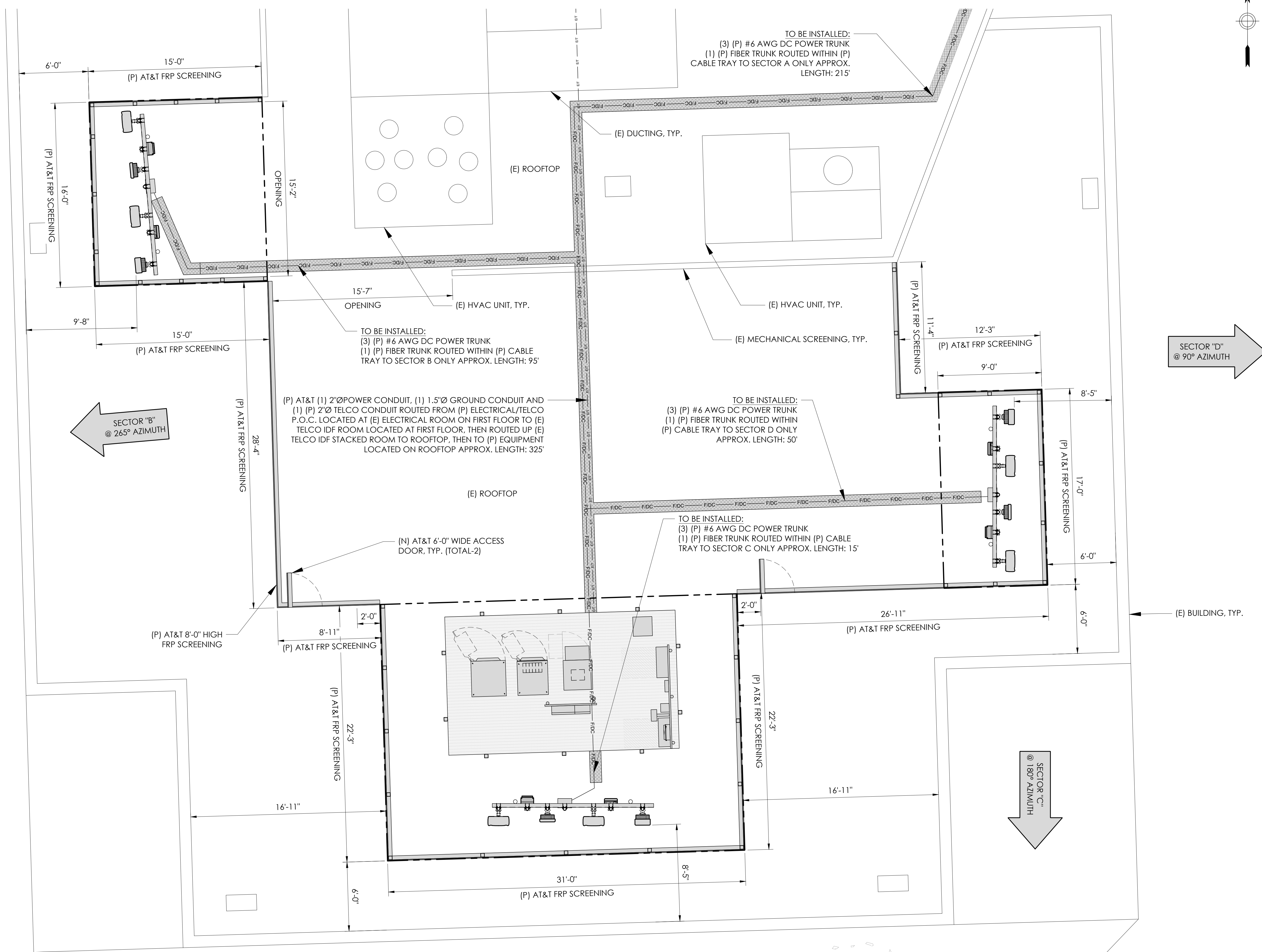
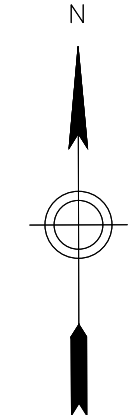
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**SHEET TITLE:**

**A-2**

**SHEET NAME:**

**ENLARGED SITE PLANS**



APPLICANT:



5001 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583

VENDOR:



**P. MARSHALL & ASSOCIATES**  
A CENTERLINE COMMUNICATIONS COMPANY  
1000 HOLCOMB WOODS PKWY, STE 210  
ROSWELL, GA 30076  
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SITE INFORMATION:

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**ROUND BARN**

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0	03/21/24	100%ZDS	AP
1	04/23/24	REVISED 100%ZDS	BH
2	08/05/24	REVISED 100%ZDS	MM3

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SHEET TITLE:

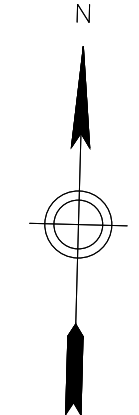
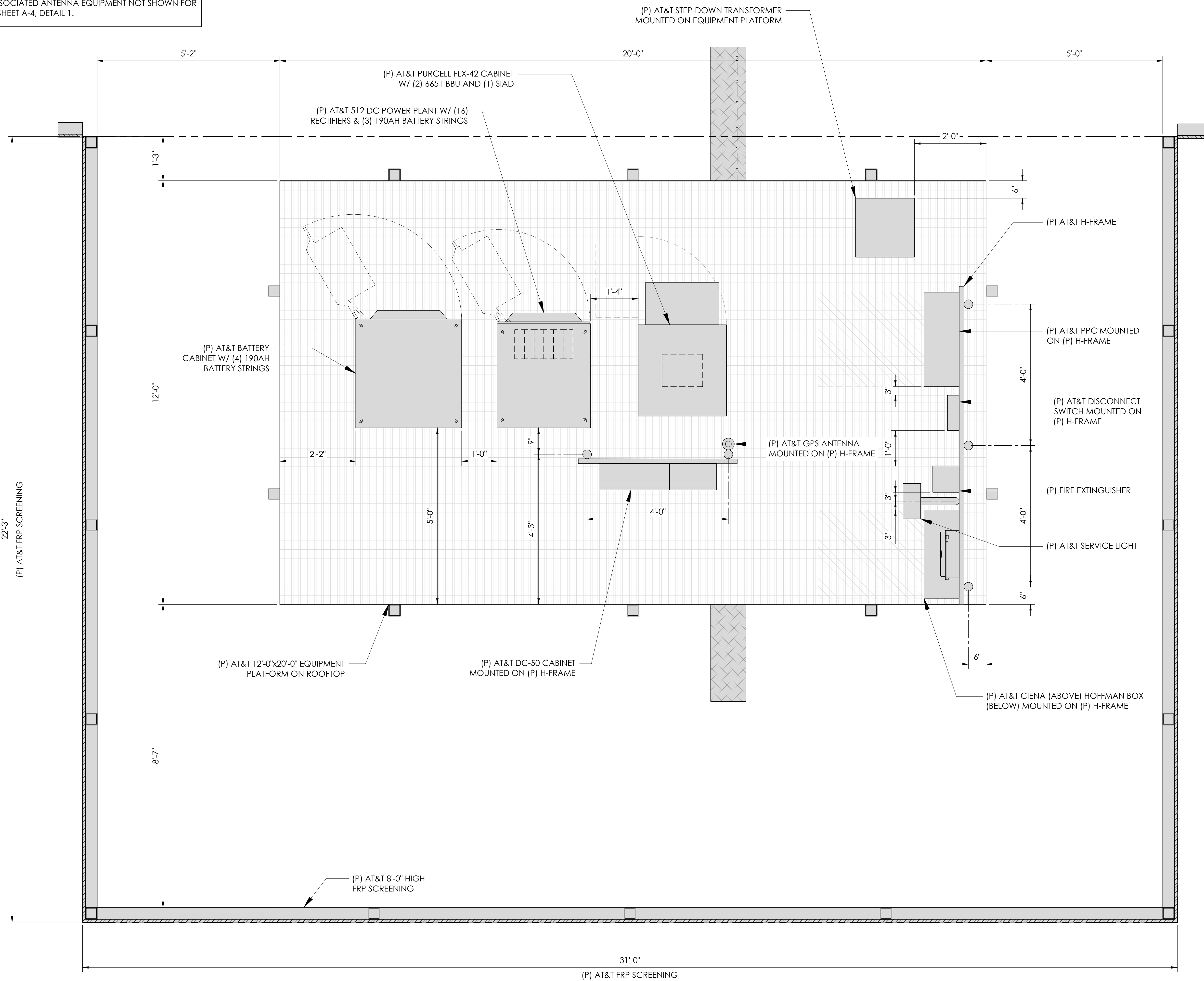
**A-2.1**


SHEET NAME:

**ENLARGED ROOFTOP PLAN**



NOTE:  
 (P) ANTENNAS & ASSOCIATED ANTENNA EQUIPMENT NOT SHOWN FOR CLARITY. REFER TO SHEET A-4, DETAIL 1.



APPLICANT:  
  
 5001 EXECUTIVE PARKWAY  
 SAN RAMON, CA 94583

VENDOR:  
  
**P. MARSHALL & ASSOCIATES**  
 A CENTERLINE COMMUNICATIONS COMPANY  
 1000 HOLCOMB WOODS PKWY. STE. 210  
 ROSWELL, GA 30076  
 OFFICE: (678) 280-2325

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 SANTA ROSA, CA 95403

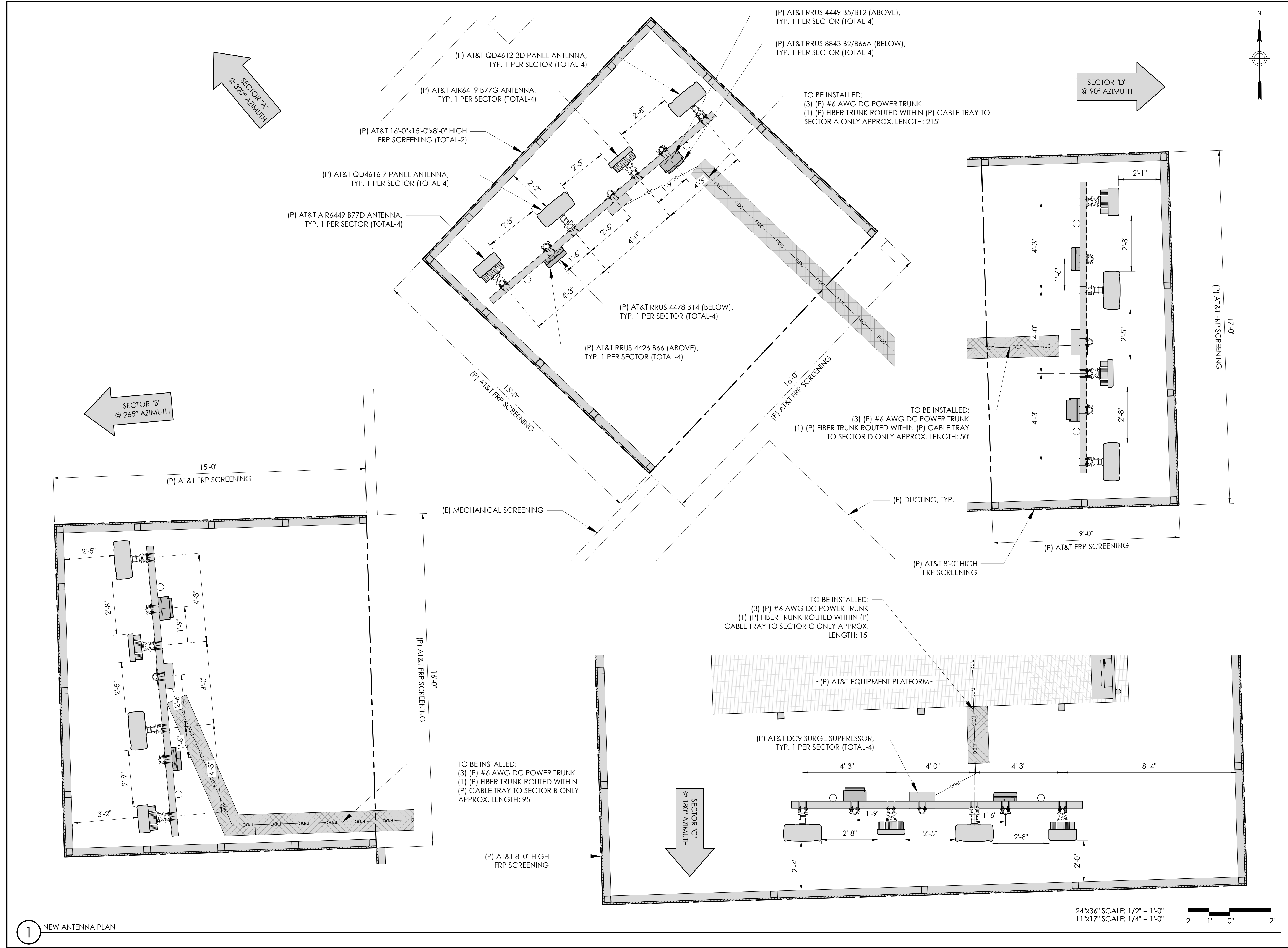
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2	08/05/24	REVISED 100%ZDS	NM/3


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SHEET TITLE:  
**A-3**

SHEET NAME:  
**NEW EQUIPMENT PLAN**



APPLICANT:



5001 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583

VENDOR:



**P. MARSHALL & ASSOCIATES**  
A CENTERLINE COMMUNICATIONS COMPANY  
1000 HOLCOMB WOODS PKWY, STE 210  
ROSWELL, GA 30076  
OFFICE: (678) 280-2325

SITE INFORMATION:

**CCL05865**

**ROUND BARN**

3562 ROUND BARN CIRCLE  
SANTA ROSA, CA 95403

DESIGN RECORD:

REV	DATE	DESCRIPTION	INT.	SMR	SMR	SMR	AP	BH	NW3
A	12/12/23	ISSUED FOR 90%ZDS							
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SHEET TITLE:

**A-4**

SHEET NAME:

**NEW ANTENNA PLAN**

NOTES TO CONTRACTOR:


1. CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.
2. CABLE LENGTHS WERE DETERMINED BASED ON VISUAL INSPECTION DURING SITE-WALK. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK.
3. CONTRACTOR TO VERIFY PORTS HAVE SUFFICIENT ROOM.

NOTE:

(E) ANTENNA AZIMUTHS ARE ESTIMATED AND ARE TO BE VERIFIED BY RF.

Position	Antenna		RRUS		Additional Antenna Location		Line Information	
	Type	Technology	Type	Location	Azimuth	Rad Center	Coax Cables	Power/Fiber
							Final	Final
<b>ALPHA</b>								
1	NNH4-45A-R6 COMMSCOPE	LTE 700 5G 850 LTE 1900 5G 1900 LTE AWS 5G AWS	(1) RRUS 4449 B5/B12 (1) RRUS 8843 B25/B66	TOP TOP	320	51'-0"	N/A	(3) #6 AWG DC POWER TRUNKS (1) FIBER TRUNK
2	AIR6419 B77G ERICSSON	5G DoD	N/A	N/A	320	52'-0"		
3	NNH4-45A-R6 COMMSCOPE	LTE WCS LTE FNET	(1) RRUS 4426 B66 (1) RRUS 4478 B14	TOP TOP	320	51'-0"		
4	AIR6449 B77D ERICSSON	5G CBAND	N/A	N/A	320	52'-0"		
<b>BETA</b>								
1	NNH4-45A-R6 COMMSCOPE	LTE 700 5G 850 LTE 1900 5G 1900 LTE AWS 5G AWS	(1) RRUS 4449 B5/B12 (1) RRUS 8843 B25/B66	TOP TOP	265	51'-0"	N/A	(3) #6 AWG DC POWER TRUNKS (1) FIBER TRUNK
2	AIR6419 B77G ERICSSON	5G DoD	N/A	N/A	265	52'-0"		
3	NNH4-45A-R6 COMMSCOPE	LTE WCS LTE FNET	(1) RRUS 4426 B66 (1) RRUS 4478 B14	TOP TOP	265	51'-0"		
4	AIR6449 B77D ERICSSON	5G CBAND	N/A	N/A	265	52'-0"		
<b>GAMMA</b>								
1	QD4612-3D QUINTEL	LTE 700 5G 850 LTE 1900 5G 1900 LTE AWS 5G AWS	(1) RRUS 4449 B5/B12 (1) RRUS 8843 B25/B66	TOP TOP	180	51'-0"	N/A	(3) #6 AWG DC POWER TRUNKS (1) FIBER TRUNK
2	AIR6419 B77G ERICSSON	5G DoD	N/A	N/A	180	52'-0"		
3	QD4616-7 QUINTEL	LTE WCS LTE FNET	(1) RRUS 4426 B66 (1) RRUS 4478 B14	TOP TOP	180	51'-0"		
4	AIR6449 B77D ERICSSON	5G CBAND	N/A	N/A	180	52'-0"		
<b>DELTA</b>								
1	QD4612-3D QUINTEL	LTE 700 5G 850 LTE 1900 5G 1900 LTE AWS 5G AWS	(1) RRUS 4449 B5/B12 (1) RRUS 8843 B25/B66	TOP TOP	90	51'-0"	N/A	(3) #6 AWG DC POWER TRUNKS (1) FIBER TRUNK
2	AIR6419 B77G ERICSSON	5G DoD	N/A	N/A	90	52'-0"		
3	QD4616-7 QUINTEL	LTE WCS LTE FNET	(1) RRUS 4426 B66 (1) RRUS 4478 B14	TOP TOP	90	51'-0"		
4	AIR6449 B77D ERICSSON	5G CBAND	N/A	N/A	90	52'-0"		

APPLICANT:



5001 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583

VENDOR:



**P. MARSHALL & ASSOCIATES**  
A CENTERLINE COMMUNICATIONS COMPANY  
1000 HOLCOMB WOODS PKWY, STE 210  
ROSWELL, GA 30076  
OFFICE: (678) 280-2325

SITE INFORMATION:

**CCL05865**

**ROUND BARN**

3562 ROUND BARN CIRCLE  
SANTA ROSA, CA 95403

DESIGN RECORD:

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SHEET TITLE:

**A-4.1**

SHEET NAME:

**NEW ANTENNA PLANS**



5001 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583



**CCL05865**

**ROUND BARN**

3562 ROUND BARN CIRCLE  
SANTA ROSA, CA 95403

APPLICANT:

VENDOR:

SITE INFORMATION:

DESIGN RECORD:

PROFESSIONAL STAMP:

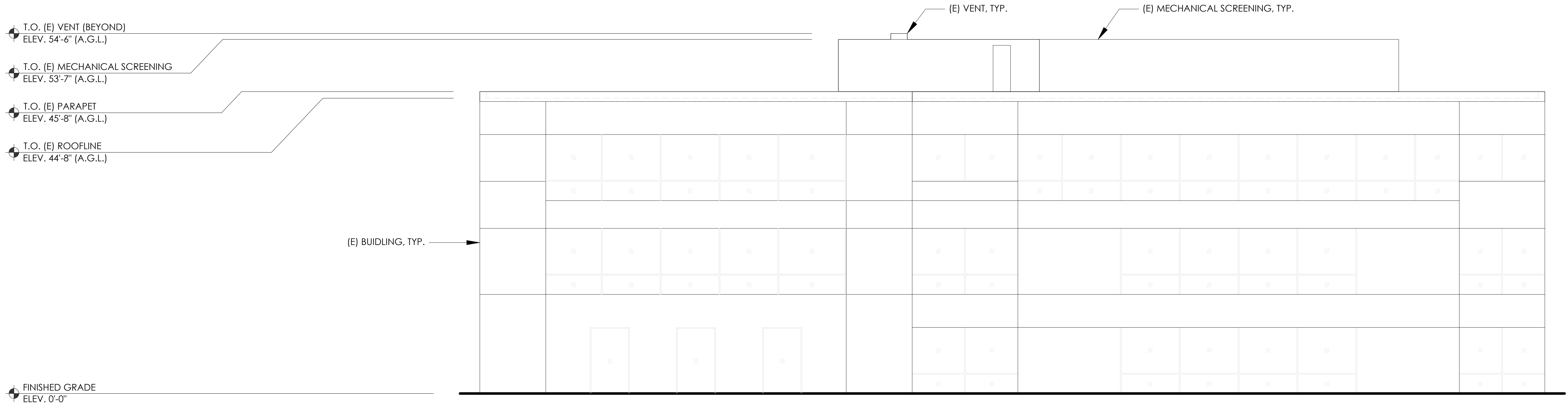
SHEET TITLE:

SHEET NAME:

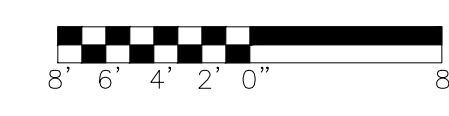
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**A-5**

**NORTH ELEVATIONS**

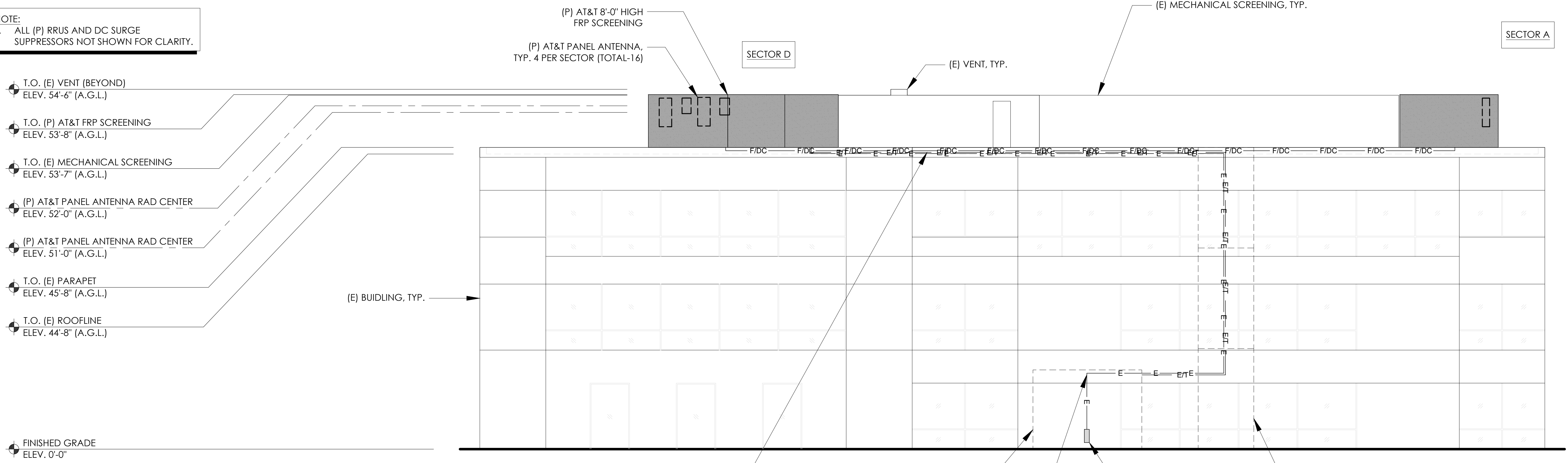


24"x36" SCALE: 1/8" = 1'-0"  
11"x17" SCALE: 1/16" = 1'-0"

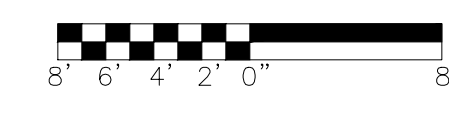


**1** EXISTING NORTH ELEVATION

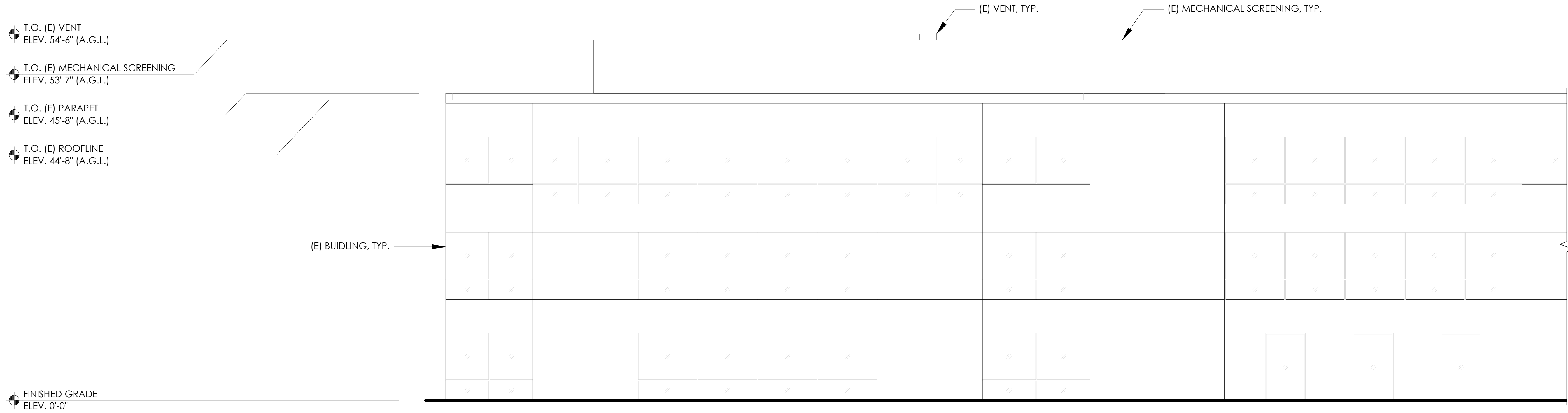
NOTE:  
1. ALL (P) RRUS AND DC SURGE SUPPRESSORS NOT SHOWN FOR CLARITY.



24"x36" SCALE: 1/8" = 1'-0"  
11"x17" SCALE: 1/16" = 1'-0"

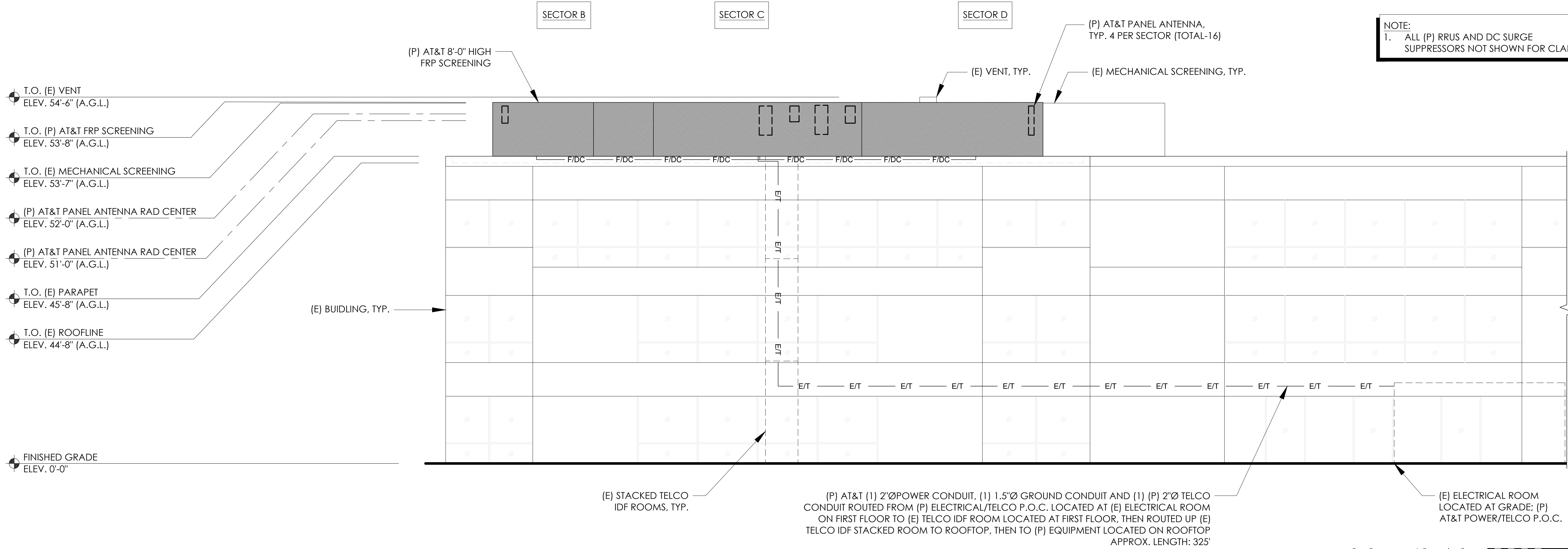


**2** NEW NORTH ELEVATION



1 EXISTING SOUTH ELEVATION

24"x36" SCALE: 1/8" = 1'-0"  
 11"x17" SCALE: 1/16" = 1'-0"  
 8" 6" 4" 2" 0" 8"



2 NEW SOUTH ELEVATION

24"x36" SCALE: 1/8" = 1'-0"  
 11"x17" SCALE: 1/16" = 1'-0"  
 8" 6" 4" 2" 0" 8"

NOTE:  
 1. ALL (P) RRS AND DC SURGE SUPPRESSORS NOT SHOWN FOR CLARITY.

APPLICANT:

5001 EXECUTIVE PARKWAY  
 SAN RAMON, CA 94583

VENDOR:

P. MARSHALL & ASSOCIATES  
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 1000 HOLCOMB WOODS PKWY, STE 210  
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**ROUND BARN**

3562 ROUND BARN CIRCLE  
 SANTA ROSA, CA 95403

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SHEET TITLE:

**A-6**

SHEET NAME:

**SOUTH ELEVATIONS**

**ELECTRICAL INSTALLATION METHODS:**

- THIS INSTALLATION SHALL COMPLY WITH THE CURRENTLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND WITH UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.
- INSTALL SUFFICIENT LENGTHS OF LFMC INCLUDING ALL CONDUIT FITTINGS (NUTS, REDUCING BUSHINGS, ELBOWS, COUPLINGS, ETC) NECESSARY FOR CONNECTION FROM IMC OR PVC CONDUIT TO THE INTERIOR OF THE BTS CABINET.
- POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG AND LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED.
- CUT, COIL AND TAPE A 3 FOOT PIGTAIL FROM END OF LFMC FOR TERMINATING BY BTS EQUIPMENT MANUFACTURER.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG AND LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION, LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS OR BELOW GRADE SHALL BE SINGLE CONDUCTOR #2 AWG SOLID, TINNED, COPPER CABLE.
- POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC. CABLE (#14 AWG AND LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B, STRANDED COPPER CABLE RATED FOR 90°C (WET OR DRY) OPERATION, WITH OUTER JACKET LISTED OR LABELED FOR THE LOCATION USED.
- CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- NEW RACEWAY OR CABLE TRAY SHALL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP STYLE, COMPRESSION, WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C.
- EACH END OF EVERY POWER, GROUNDING AND TI CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR CODED INSULATION OR ELECTRICAL TAPE. THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMINATED PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (PANELBOARD AND CIRCUIT IDENTIFICATION).
- ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- RIGID NONMETALLIC CONDUIT (PVC SCHEDULE 40 OR PVC SCHEDULE 80) SHALL BE USED UNDERGROUND, DIRECT BURIED IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- ALL CONDUIT RUN ABOVE GROUND OR EXPOSED SHALL BE EMT, LFMC, IMC OR RIGID STEEL.
- ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED FOR INDOOR AND ROOFTOP LOCATIONS.
- LIQUID TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED INDOORS AND OUTDOORS WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.

- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- CABINETS, BOXES AND WIREWAYS SHALL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
- THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC. THE SITE SPECIFIC LIGHTNING PROTECTION CODE AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
- ALL ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION SIZED IN ACCORDANCE WITH THE NEC SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- EACH INDOOR BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH SUPPLEMENTAL EQUIPMENT GROUND WIRES #6 OR LARGER.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
- SURFACES TO BE CONNECTED TO GROUND CONDUCTORS SHALL BE CLEANED TO A BRIGHT SURFACE AT ALL CONNECTIONS.
- EXPOSED GROUND CONNECTIONS SHALL BE MADE WITH COMPRESSION CONNECTORS WHICH ARE THEN BOLTED TO EQUIPMENT USING STAINLESS STEEL HARDWARE. INSTALLATION TORQUE SHALL BE PER MANUFACTURER'S REQUIREMENTS.
- DC POWER CABLES SHALL BE COBRA COP-FLEX 2000, FLEXIBLE CLASS B OR APPROVED EQUAL.

**PRODUCTS:**

- ALL MATERIALS SHALL BE NEW, CONFORMING WITH NEC, ANSI, NEMA, AND THEY SHALL BE U.L. LISTED AND LABELED.
- CONDUIT:
  - ELECTRICAL METALLIC TUBING SHALL U.L. LABEL, FITTINGS SHALL BE COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS AND ROOFTOPS.
  - FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.
  - CONDUIT RUNS MAY BE SURFACE MOUNTED IN CEILING OR WALLS UNLESS INDICATED OTHERWISE. CONDUIT INDICATED SHALL RUN PARALLEL OR AT RIGHT ANGLES TO CEILING, FLOOR OR BEAMS, VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH ARCHITECT PRIOR TO INSTALLING.
  - ALL UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE
  - ALL CONDUIT ONLY (C.O.) SHALL HAVE PULL ROPE.
  - CONDUITS RUN ON ROOFS SHALL BE INSTALLED ON DURA-BLOK ROOFTOP SUPPORTS BY COOPER B-LINE.
  - \*RIGID SHALL BE USED IN LOCATIONS OF POTENTIAL DAMAGE AND/OR CRUSH. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS, RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
- ALL WIRE AND CABLE SHALL BE COPPER, 600 VOLT, #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED. TYPE THHN INSULATION USED UNLESS CONDUCTORS INSTALLED IN CONDUIT EXPOSED TO WEATHER, IN WHICH CASE TYPE THWN INSULATION SHALL BE USED.
- PROVIDE GALVANIZED COATED STEEL BOXES AND ACCESSORIES SIZED PER CODE TO ACCOMMODATE ALL DEVICES AND WIRING.
- DUPLEX RECEPTACLES SHALL BE SPECIFICATION GRADE WITH WHITE FINISH (UNLESS NOTED BY ENGINEER), 20 AMP, 125 VOLT, THREE WIRE GROUNDING TYPE, NEMA 5-20R. MOUNT RECEPTACLE AT +12" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED ON DRAWINGS OR IN DETAILS. WEATHERPROOF RECEPTACLES SHALL BE GROUND FAULT INTERRUPTER TYPE WITH SIERRA #WPD-8 LIFT COVERPLATES.
- TOGGLE SWITCHES SHALL BE 20 AMP, 120 VOLT AC, SPECIFICATION GRADE WHITE (UNLESS NOTED OTHERWISE) FINISH. MOUNT SWITCHES AT +48" ABOVE FINISHED FLOOR.
- PANELBOARDS SHALL BE DEAD FRONT SAFETY TYPE WITH ANTI-BURN SOLDERLESS COMPRESSION APPROVED FOR COPPER CONDUCTORS, COPPER BUS BARS, FULL SIZED NEUTRAL BUS, GROUND BUS AND EQUIPPED WITH QUICK-MAKE QUICK-BREAK BOLT-IN TYPE THERMAL MAGNETIC CIRCUIT BREAKERS. MOUNT TOP OF THE PANELBOARDS AT 6'-3" ABOVE FINISHED FLOOR. PROVIDE TYPE WRITTEN CIRCUIT DIRECTORY.
- ALL CIRCUIT BREAKERS, MAGNETIC STARTERS AND OTHER ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.
- GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 10' LONG. COPPERWELD OR APPROVED EQUAL.

**GROUNDING NOTES:**

- ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS.
- ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
- GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
- ALL BELOW GRADE CONNECTIONS: EXOTHERMIC WELD TYPE, ABOVE GRADE CONNECTIONS: EXOTHERMIC WELD TYPE.
- GROUND RING SHALL BE LOCATED A MINIMUM OF 24" BELOW GRADE OR 6" MINIMUM BELOW THE FROST LINE.
- INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING, OR FENCE.
- EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY.
- GROUND BARS:
  - EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT THE BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
- ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
- OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
- GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).
- IF EQUIPMENT IS IN A C.L. FENCE ENCLOSURE, GROUND ONLY CORNER POSTS AND SUPPORT POSTS OF GATE. IF CHAIN LINK LID IS USED, THEN GROUND LID ALSO.
- GROUNDING AT PPC CABINET SHALL BE VERTICALLY INSTALLED.
- ALL GROUNDING FOR ANTENNAS SHALL BE CONNECTED SO THAT IT WILL BY-PASS MAIN BUSS BAR.
- ALL EMT RUNS SHALL BE GROUNDED AND HAVE A BUSHING, NO PVC ABOVE GROUND.
- USE SEPARATE HOLES FOR GROUNDING AT BUSS BAR. NO "DOUBLE-UP" OF LUGS.
- POWER AND TELCO CABINETS SHALL BE GROUNDED (BONDED) TOGETHER.
- NO LB'S ALLOWED ON GROUNDING.
- PROVIDE STAINLESS STEEL CLAMP AND BRASS TAGS ON COAX AT ANTENNAS AND DOGHOUSE.
- ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER SPECIFICATION.
- IF THE AC PANEL IN THE POWER CABINET IS WIRED AS SERVICE ENTRANCE, THE AC SERVICE GROUND CONDUCTOR SHALL BE CONNECTED TO GROUND ELECTRODE SYSTEM. WHEN THE AC PANEL IN THE POWER CABINET IS CONSIDERED A SUB-PANEL, THE GROUND WIRE SHALL BE INSTALLED IN THE AC POWER CONDUIT. THE INSTALLATION SHALL BE PER LOCAL AND NATIONAL ELECTRIC CODE (NFPA-70).
- EXOTHERMIC WELDING IS RECOMMENDED FOR GROUNDING CONNECTION WHERE PRACTICAL. OTHERWISE, THE CONNECTION SHALL BE MADE USING COMPRESSION TYPE-2 HOLES. LONG BARREL LUGS OR DOUBLE CRIMP CLAMP "C" CLAMP. THE COPPER CABLES SHALL BE COATED WITH ANTIOXIDANT (COPPER SHIELD) BEFORE MAKING THE CONNECTIONS. THE MANUFACTURER'S TORQUING RECOMMENDATIONS ON THE BOLT ASSEMBLY TO SECURE CONNECTIONS SHALL BE FOLLOWED.
- THE ANTENNA CABLES SHALL BE GROUNDED AT THE TOP AND BOTTOM OF THE VERTICAL RUN FOR LIGHTNING PROTECTION. THE ANTENNA CABLE SHIELD SHALL BE BONDED TO A COPPER GROUND BUSS AT THE LOWER MOST POINT OF A VERTICAL RUN JUST BEFORE IT BEGINS TO BEND TOWARD THE HORIZONTAL PLANE. WIRE RUNS TO GROUND SHALL BE KEPT AS STRAIGHT AND SHORT AS POSSIBLE. ANTENNA CABLE SHIELD SHALL BE GROUNDED JUST BEFORE ENTERING THE CELL CABINET. ANY ANTENNA CABLES OVER 200 FEET IN LENGTH SHALL ALSO BE EQUIPPED WITH ADDITIONAL GROUNDING AT MID-POINT.
- ALL GROUNDING CONDUCTORS INSIDE THE BUILDING SHALL BE RUN IN CONDUIT RACEWAY SYSTEM, AND SHALL BE INSTALLED

- AS STRAIGHT AS PRACTICAL WITH MINOR BENDS TO AVOID OBSTRUCTIONS. THE BENDING RADIUS OF ANY #2 GROUNDING CONDUCTOR IS 8". PVC RACEWAY MAY BE FLEXIBLE OR RIGID PER THE FIELD CONDITIONS. GROUNDING CONDUCTORS SHALL NOT MAKE CONTACT WITH ANY METALLIC CONDUITS, SURFACES OR EQUIPMENT.
- PROVIDE PVC SLEEVES WHERE GROUNDING CONDUCTORS PASS THROUGH THE BUILDING WALLS AND /OR CEILINGS.
- INSTALL GROUND BUSHINGS ON ALL METALLIC CONDUITS AND BOND TO THE EQUIPMENT GROUND BUSS IN THE PANEL BOARD.
- GROUND ANTENNA BASES, FRAMES, CABLE RACKS AND OTHER METALLIC COMPONENTS WITH #2 GROUNDING CONDUCTORS AND CONNECT TO INSULATED SURFACE MOUNTED GROUND BARS. CONNECTION DETAILS SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR GROUNDING.

- ALL PROPOSED GROUNDING CONDUCTORS SHALL BE ROUTED AND CONNECTED TO THE MAIN GROUND BAR OR EXISTING GROUND RING.
- THE CONTRACTOR SHALL PROVIDE A COMPLETE, AND APPROVED GROUNDING SYSTEM INCLUDING ELECTRODES, ELECTRODE CONDUCTOR, BONDING CONDUCTORS, AND EQUIPMENT CONDUCTORS AS REQUIRED BY ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- CONDUITS CONNECTED TO EQUIPMENT AND DEVICES SHALL BE METALLICALLY JOINED TOGETHER TO PROVIDE EFFECTIVE ELECTRICAL CONTINUITY.
- FEEDERS AND BRANCH CIRCUIT WIRING INSTALLED IN A NONMETALLIC CONDUIT SHALL INCLUDE A CODE SIZED GROUNDING CONDUCTOR HAVING GREEN INSULATION. THE GROUND CONDUCTOR SHALL BE PROPERLY CONNECTED AT BOTH ENDS TO MAINTAIN ELECTRICAL CONTINUITY.
- REFER TO GROUND BUS DETAILS. PROVIDE NEW GROUND SYSTEM COMPLETE WITH CONDUCTORS, GROUND ROD AND DESCRIBED TERMINATIONS.
- ALL GROUNDING CONDUCTORS SHALL BE SOLID TINNED COPPER AND ANNEALED #2 UNLESS NOTED OTHERWISE.
- ALL NON-DIRECT BURIED TELEPHONE EQUIPMENT GROUND CONDUCTORS SHALL BE #2 STRANDED THHN (GREEN) INSULATION.
- ALL GROUND CONNECTIONS SHALL BE MADE WITH "HYGROUND" COMPRESSION SYSTEM BURNDY CONNECTORS EXCEPT WHERE NOTED OTHERWISE.
- PAINT AT ALL GROUND CONNECTIONS SHALL BE REMOVED.
- GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE OWNER FOR FUTURE INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE. SUBMIT TEST REPORTS AND FURNISH TO SMART SMR ONE COMPLETE SET OF PRINTS SHOWING "INSTALLED WORK".
- #2 STRANDED THHN WITH WATER CLAMPS AT EVERY 25' MOUNTED ON CONDUITS AT ROOFTOP LOCATIONS

APPLICANT:



5001 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583

VENDOR:



**P. MARSHALL & ASSOCIATES**  
A CENTERLINE COMMUNICATIONS COMPANY  
1000 HOLCOMB WOODS PKWY, STE 210  
ROSWELL, GA 30076  
OFFICE: (678) 280-2325

SITE INFORMATION:

**CCL05865**

**ROUND BARN**

3562 ROUND BARN CIRCLE  
SANTA ROSA, CA 95403

DESIGN RECORD:

REV	DATE	DESCRIPTION	INT.	SMR	SMR	SMR	AP	BH	NW3
A	12/12/23	ISSUED FOR 90%ZDS							
B	01/10/24	ISSUED FOR 95%ZDS							
C	03/19/24	REV. 95%ZDS (NEW RFDS)							
0	03/21/24	100%ZDS							
1	04/23/24	REVISED 100%ZDS							
2	08/05/24	REVISED 100%ZDS							

PROFESSIONAL STAMP:

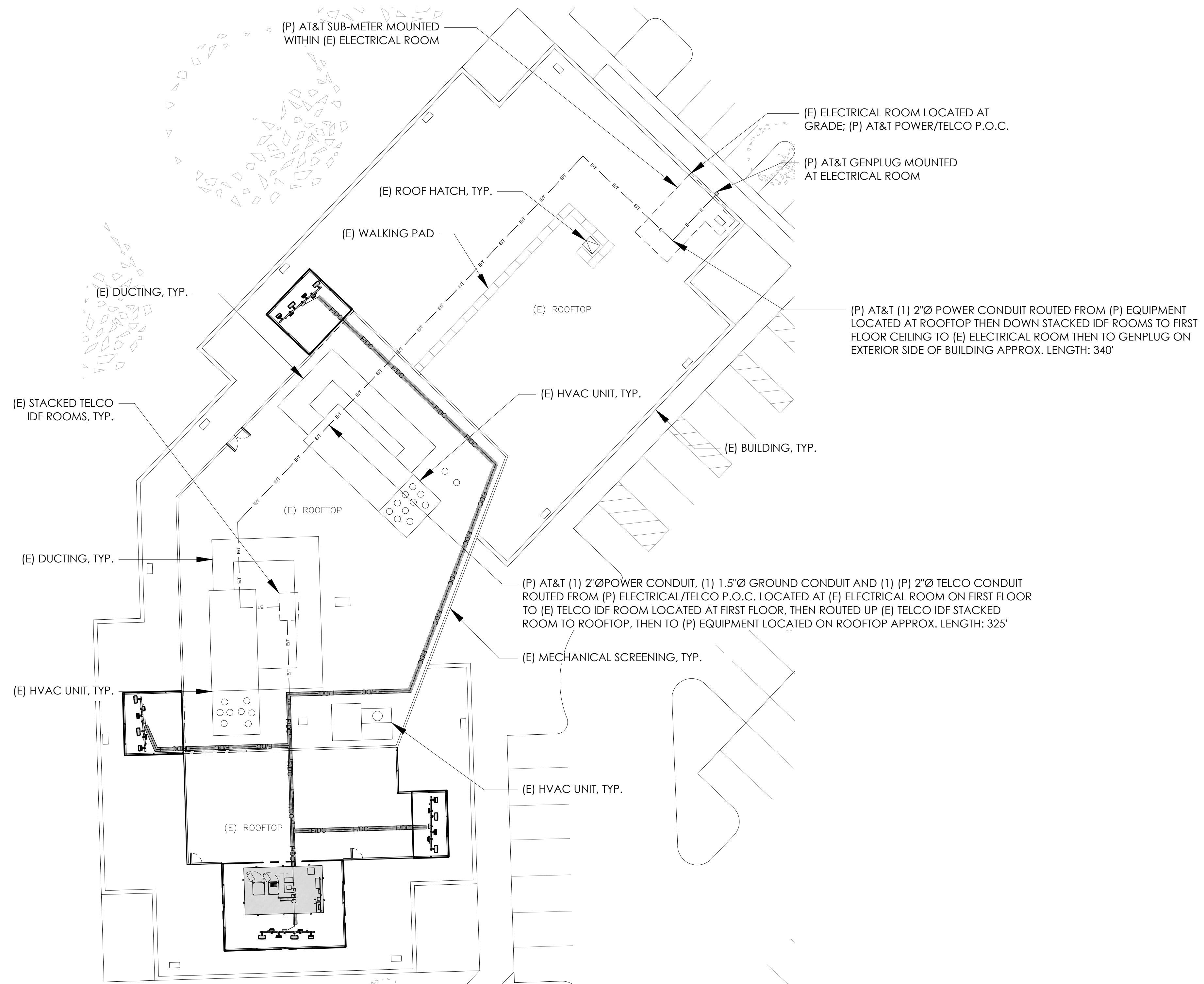
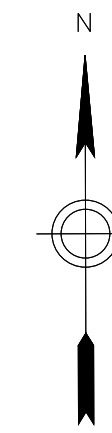
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SHEET TITLE:

**E-1**

SHEET NAME:

**ELECTRICAL & GROUNDING NOTES**



APPLICANT:  
  
 5001 EXECUTIVE PARKWAY  
 SAN RAMON, CA 94583

VENDOR:  
  
**P. MARSHALL & ASSOCIATES**  
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 1000 HOLCOMB WOODS PKWY, STE 210  
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SITE INFORMATION:  
**CCL05865**  
**ROUND BARN**  
 3562 ROUND BARN CIRCLE  
 SANTA ROSA, CA 95403

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0	03/21/24	100%ZDS	AP	
1	04/23/24	REVISED 100%ZDS	BH	
2	08/05/24	REVISED 100%ZDS	NM/3	

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SHEET TITLE:  
**E-2**

SHEET NAME:  
**ELECTRICAL SITE PLAN**

NOTES:

- ALL WORK TO CONFORM TO N.E.C., LATEST STATE ADOPTED EDITION.
- LABEL SERVICE DISCONNECT WITH A RED TAG.
- SWITCH LEG CONDUCTORS SHALL BE THE SAME COLOR AS CIRCUIT CONDUCTORS.
- PULL ONE GROUND CONDUCTOR PER FLEXIBLE NONMETALLIC CONDUIT. FOR ALL OTHER CIRCUITS PULL A SEPARATE CONDUCTOR.
- ALL GFCI RECEPTACLES TO HAVE A DEDICATED GROUND WIRE.
- EQUIPMENT TERMINATION LUGS AND CONDUCTORS ARE RATED AT A MINIMUM OF 75°C.
- LIGHTING IS DESIGNED AND INSTALLED BY SHELTER MANUFACTURER.

NOTE:  
ALL BREAKERS AND PANELS SHOWN ARE EXISTING UNLESS NOTED AS (P) NEW.

SEE SPECIFICATION FOR CONDUIT TYPE.

LEGEND:

MI = MECHANICAL INTERLOCK  
RU = RELAY TO MONITOR UTILITY POWER  
RG = RELAY TO MONITOR GENERATOR POWER

ABBREVIATIONS:

BCW BARE COPPER WIRE  
BTS BASE TRANSCIEVER STATION  
C CONDUIT  
(E) EXISTING  
EG EQUIPMENT GROUND  
(F) FUTURE  
FACP FIRE ALARM CONTROL PANEL  
GEN GENERATOR  
IG ISOLATED GROUND  
IMC INTERMEDIATE METAL CONDUIT  
LFMC LIQUID TIGHT FLEXIBLE METAL CONDUIT  
MCM MILLION CIRCULAR MILLS  
MI MECHANICAL INTERLOCK  
MP&S SEE MECHANICAL PLANS & SPECIFICATIONS  
(N) NEW  
NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION  
NL NIGHT LIGHT - FIXTURE TO BE UNSWITCHED  
PFB PROVISION FOR FUTURE BREAKER  
PVC POLYVINYL CHLORIDE CONDUIT  
(R) RELOCATE  
RG RELAY TO MONITOR GENERATOR POWER  
RU RELAY TO MONITOR UTILITY POWER  
TYP TYPICAL  
UON UNLESS OTHERWISE NOTED  
WP WEATHERPROOF  
GFCI GROUND FAULT CIRCUIT INTERRUPTER

NOTE: SYMBOLS INDICATED ABOVE MAY NOT NECESSARILY APPEAR AS PART OF THESE DRAWINGS IF NOT REQUIRED.

3

NOTES  
N.T.S.

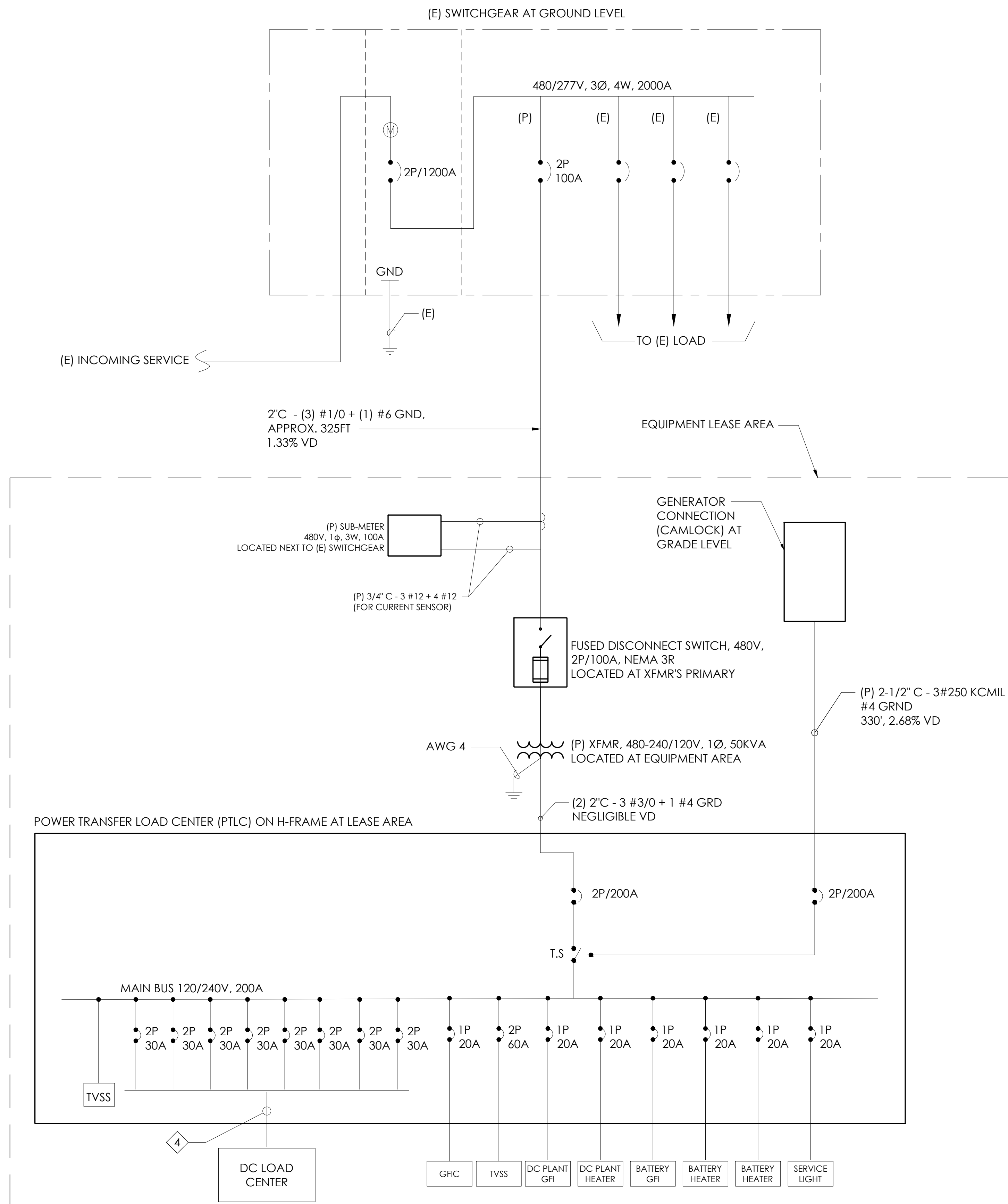
VOLT AMPS		DESCRIPTION		POLE		BKR		CKT		PANEL 'A'		DESCRIPTION		VOLT AMPS	
PHASE	PHASE														
A	B					A	B								
2150			VERTIV 512	2	30	1		2	30	2		2	VERTIV 512	2150	
	2150		RECTIFIERS 1&2									4	RECTIFIER 9&10		2150
2150			VERTIV 512	2	30	5		6		2		6	VERTIV 512	2150	
	2150		RECTIFIERS 3&4									8	RECTIFIERS 11&12		2150
2150			VERTIV 512	2	30	9		10	30	2		10	VERTIV 512	2150	
	2150		RECTIFIERS 5&6									12	RECTIFIERS 13&14		2150
2150			VERTIV 512	2	30	13		14	30	2		14	VERTIV 512	2150	
	2150		RECTIFIERS 7&8									16	RECTIFIERS 15&16		2150
180			VERTIV GFI	1	20	17		18	30	2		18	SURGE SUPPRESSOR		
	360		VERTIV BATTERY HEATER	1	20	19		20				20			
180			VERTIV GFI	1	20	21		22	20	1		22	SERVICE LIGHT	360	
	360		VERTIV BATTERY HEATER 1	1	20	23		24	20	1		24	GFI	180	
	360		VERTIV BATTERY HEATER 2	1	20	25		26				26			
						27		28				28			
						29		30				30			
						31		32				32			
						33		34				34			
						35		36				36			
						37		38				38			
						39		40				40			
						41		42				42			
9320	9320														8960 8780
PHASE A =		18280 VA		PHASE B =		18100 VA									
CONNECTED LOAD:		36380 VA													
CONNECTED AMPS:		152 A													

2

AC PANEL SCHEDULE  
N.T.S.

NOTES:

- IF A BACKUP GENERATOR OR ALTERNATE METHOD ARE NOT AN OPTION, INSURE BATTERY CABINET HAS MAX. AMOUNT ALLOWABLE BATTERIES INSTALLED PER CFC 608.1.
- CONTRACTOR TO PLACE EMERGENCY BACKUP INSTRUCTION ON ELECTRICAL PANEL.
- FOR GROUNDING SYSTEM SEE SHEET G-1.



1

SINGLE-LINE DIAGRAM (SLD)  
N.T.S.

APPLICANT:

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SHEET TITLE:

**E-3**

SHEET NAME:

**SINGLE LINE DIAGRAM AND PANEL SCHEDULE**