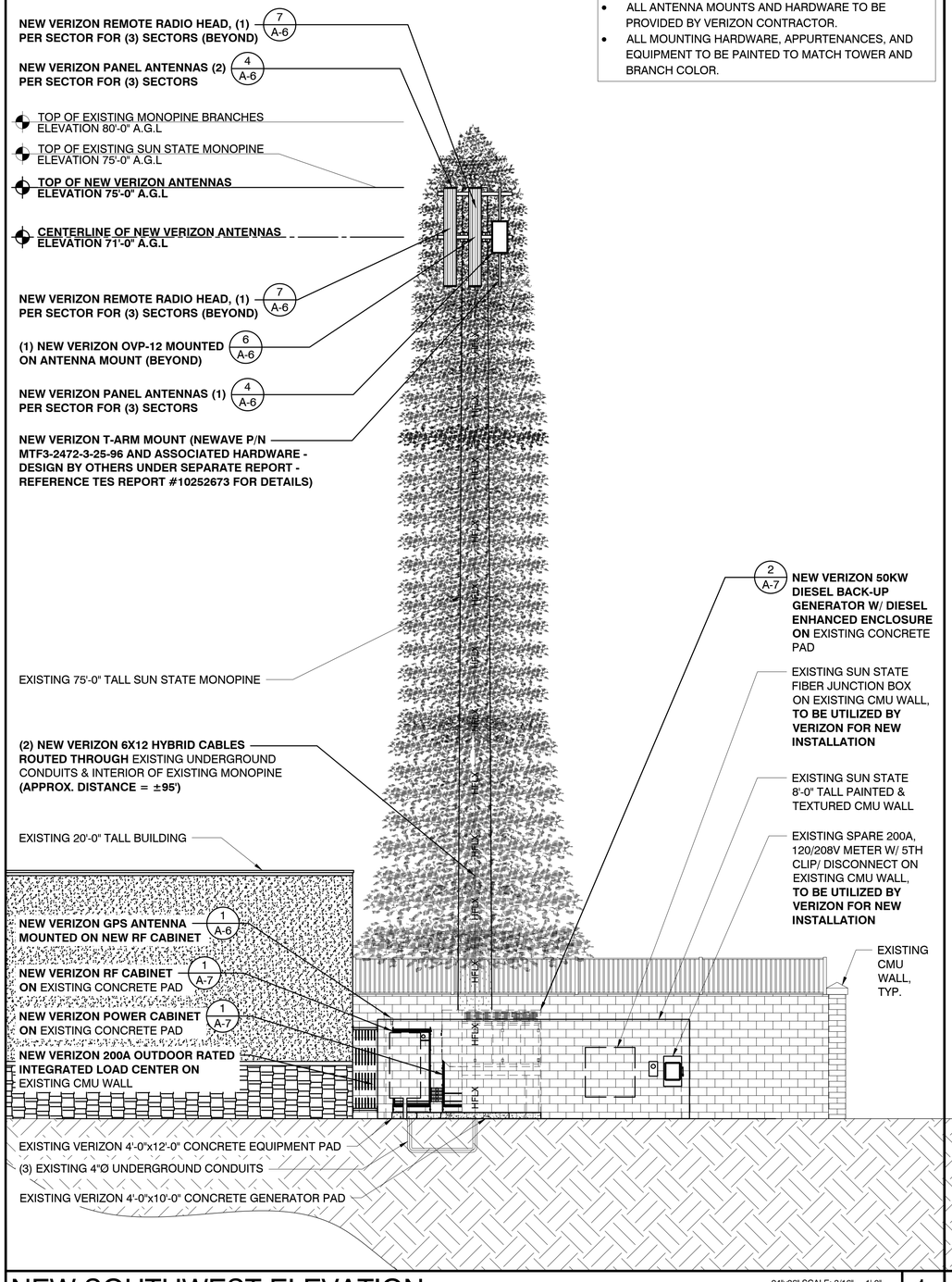
*MONOPINE NOTE:
- ANTENNAS TO BE ENCLOSED IN RF FRIENDLY SOCKS, TO BE PROVIDED BY VERIZON CONTRACTORS.
- ALL ANTENNA MOUNTS AND HARDWARE TO BE PROVIDED BY VERIZON CONTRACTOR.
- ALL MOUNTING HARDWARE, APPURTENANCES, AND EQUIPMENT TO BE PAINTED TO MATCH TOWER AND BRANCH COLOR.

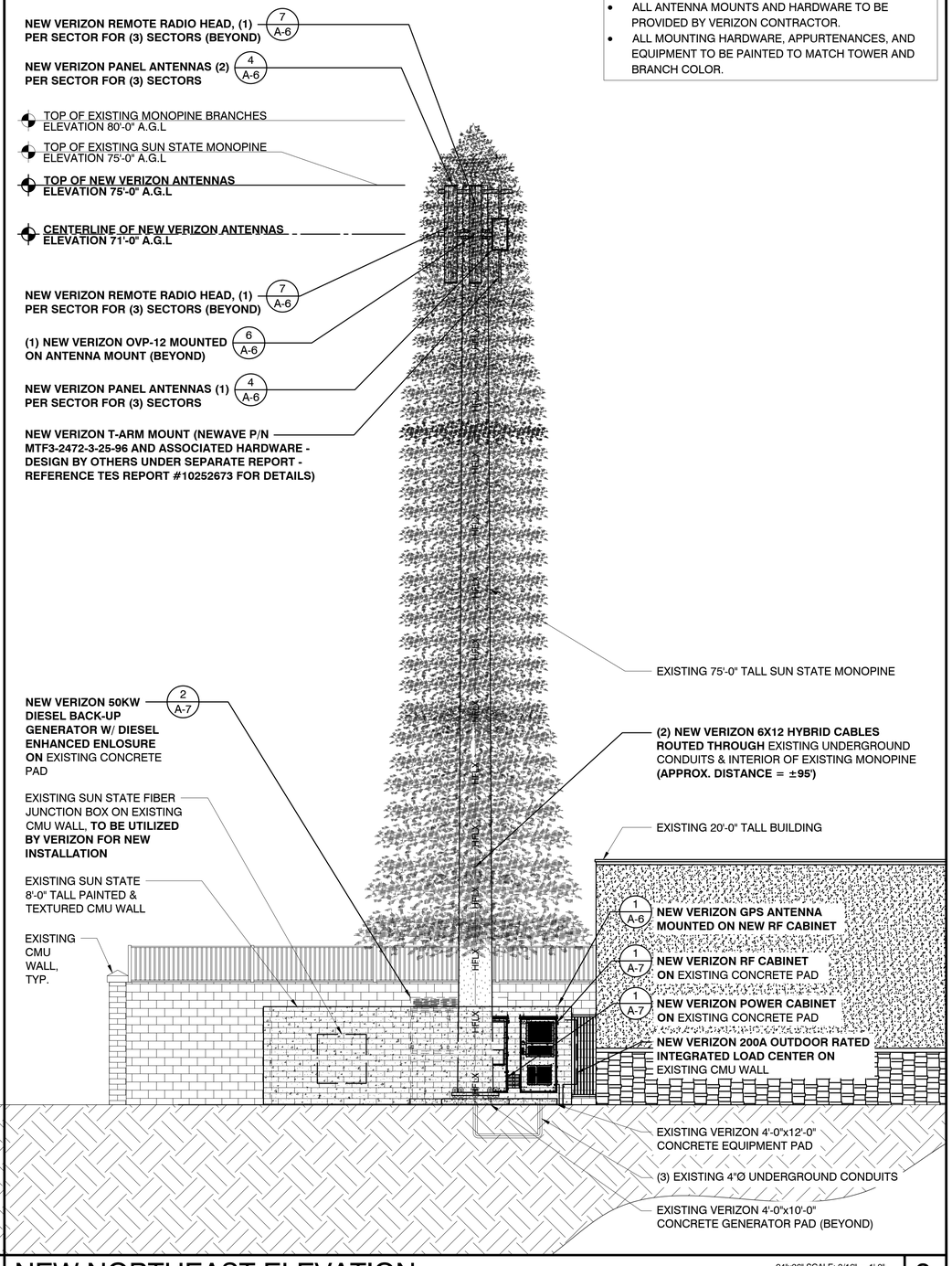


NEW SOUTHWEST ELEVATION

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

1

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- ALL MOUNTING HARDWARE, APPURTENANCES, AND EQUIPMENT TO BE PAINTED TO MATCH TOWER AND BRANCH COLOR.



NEW NORTHEAST ELEVATION

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

2

PREPARED FOR:
verizon
6955 W. MORELOS PL., CHANDLER, AZ 85226
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FAX: (480) 777-4391

CONSULTING FIRM
PINNACLE CONSULTING, INC
Site Acquisition | Engineering | Construction
1426 NORTH MARVIN STREET # 101
GILBERT, AZ 85233

PROJECT NO:	AZ5 OASIS GOLF CLUB
DRAWN BY:	M.G.
CHECKED BY:	KF

REV	DATE	DESCRIPTION	BY
A	04/22/24	ISSUED FOR REVIEW	M.G.
0	05/13/24	ISSUED FOR PERMIT	CDA
1	05/23/24	ISSUED FOR PERMIT	M.G.
2	06/13/24	ISSUED FOR PERMIT	M.G.
3	08/06/24	ISSUED FOR PERMIT	JC
4	09/30/24	ISSUED FOR PERMIT	CDA
5	10/16/24	ISSUED FOR PERMIT	CS

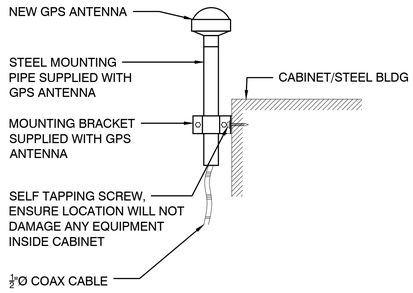
Registered Professional Engineer (Civil)
6312
KYLE A. FORTIN
10/17/24
ARIZONA, U.S.A.
EXPIRES: 03-31-2025

AZ5 OASIS GOLF CLUB

5242 E HUNT HWY
FLORENCE, AZ 85132
PINAL COUNTY

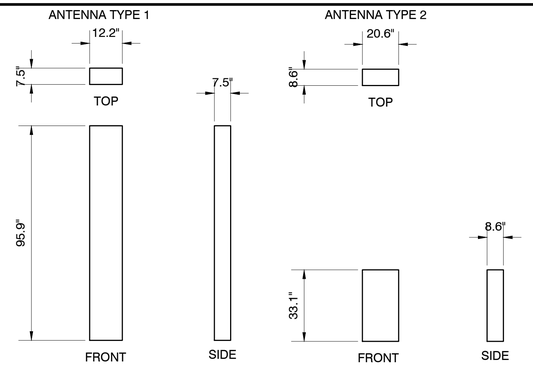
SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-5



GPS DETAIL

SCALE: NTS | 1

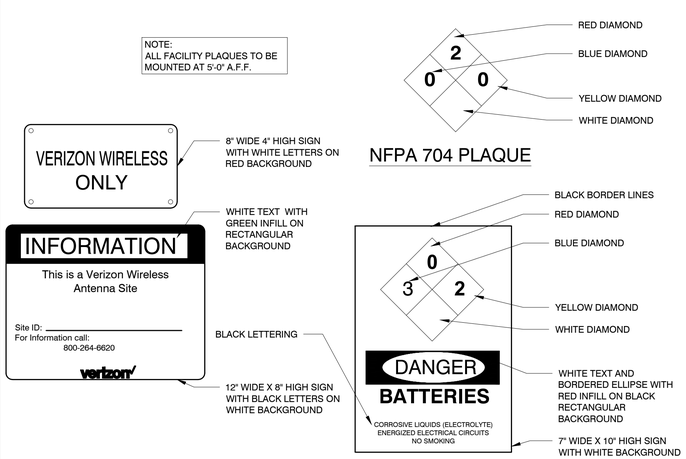


NEW ANTENNA SPECIFICATIONS

DESCRIPTION	HEIGHT	WIDTH	DEPTH	ANTENNA ONLY WEIGHT	ANTENNA W/MOUNTING BRACKET KIT WEIGHT
PANEL ANTENNA #1	95.9"	12.2"	7.5"	59.0 LBS.	±85 LBS.
PANEL ANTENNA #2	33.1"	20.6"	8.6"	104 LBS.	±125 LBS.

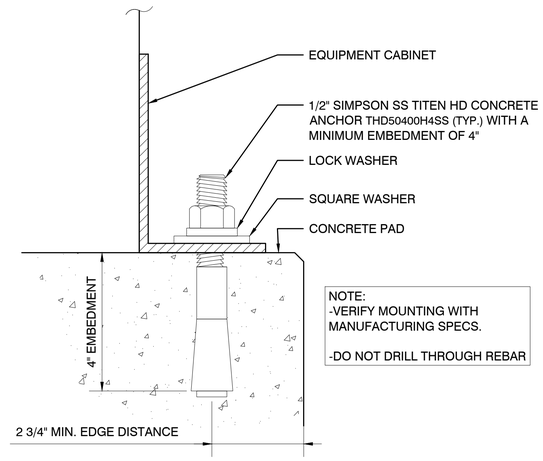
ANTENNA DETAIL

SCALE: NTS | 4



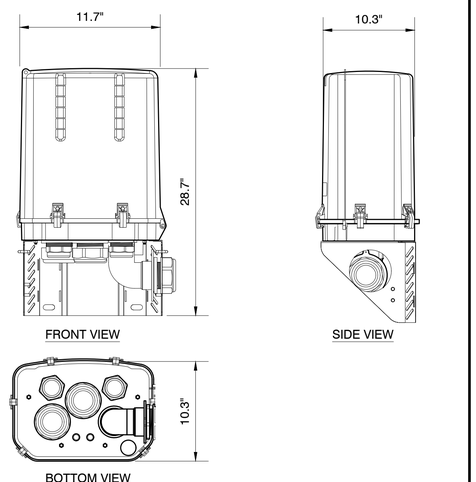
EMERGENCY PLAQUE DETAIL

SCALE: NTS | 5



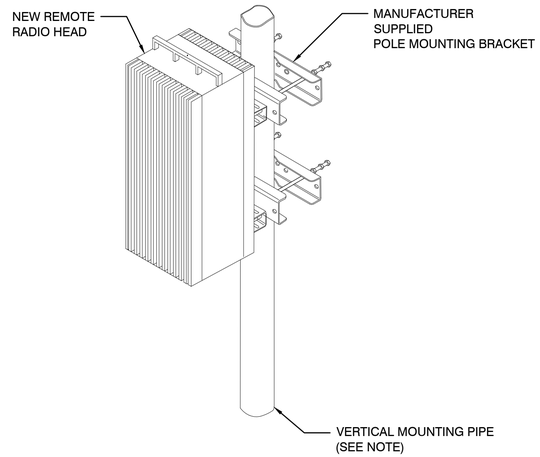
BOLT DOWN DETAIL

SCALE: NTS | 2



OVP-12 DETAIL

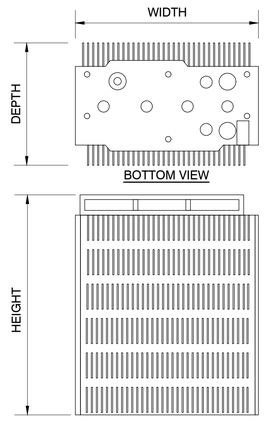
SCALE: NTS | 6



NOTES:
1. CONTRACTOR TO UTILIZE EXISTING ANTENNA MOUNTING PIPE UNLESS FIELD CONDITIONS WARRANT USE OF NEW VERTICAL MOUNTING PIPE.

RRH MOUNTING DETAIL

SCALE: NTS | 3



RRH SCHEDULE

TECHNOLOGY	BAND	BAND #	TX PWR	MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT W/MOUNT
LTE/5G	700/850 MHz	B5/B13	4X60W	RADIO 4490	20.6"	15.7"	7.0"	68.4 LBS.
LTE	1900/AWS	B2/B66	4X60W	RADIO 4890	20.6"	15.7"	7.2"	69.5 LBS.

RRH DETAIL

SCALE: NTS | 7

PREPARED FOR:

verizon

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Registered Professional Engineer (Civil)
Certificate No.
68312
KYLE A. FORTIN
Date Signed 10/17/24
ARIZONA, U.S.A.
EXPIRES: 03-31-2025

AZ5 OASIS GOLF CLUB

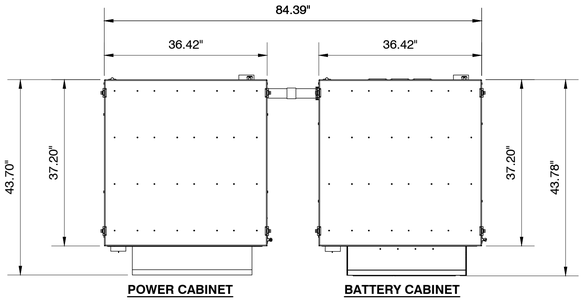
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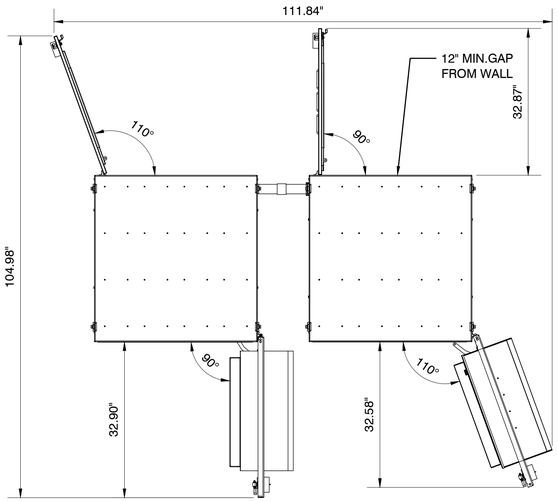
DETAILS

SHEET NUMBER

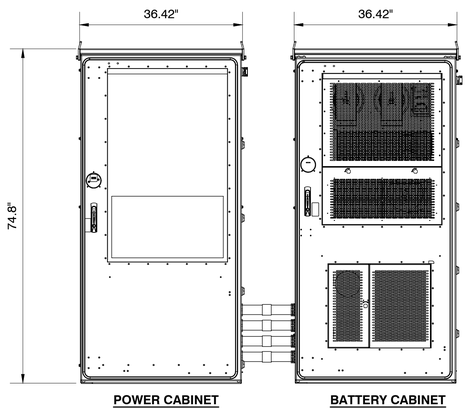
A-6



PLAN VIEW



PLAN VIEW - OPEN

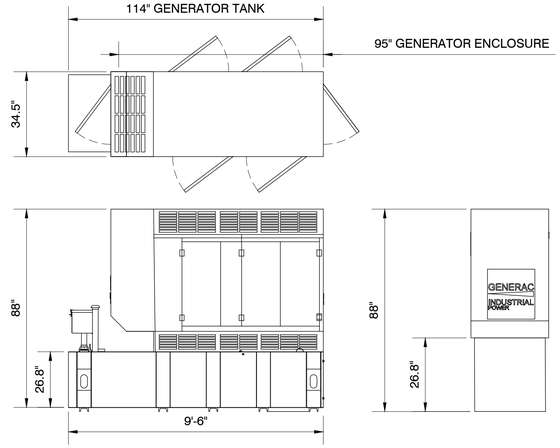


FRONT ELEVATION

CABINET DETAILS

SCALE: NTS | 1

50KW GENERATOR WITH LEVEL 2 SOUND ENCLOSURE			
DIMENSIONS	TANK CAPACITY	WEIGHT(EMPTY)	WEIGHT W/FUEL
114"LX88"HX34.5"W	211 GAL	3438 LBS	5350 LBS



GENERATOR DETAIL

SCALE: NTS | 2

NOT USED

SCALE: NTS | 3

PREPARED FOR:

verizon

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CONSULTING FIRM

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Registered Professional Engineer (Civil)
68312
KYLE A. FORTIN
10/17/24
Date Signed
ARIZONA, U.S.A.
EXPIRES: 03-31-2025

AZ5 OASIS GOLF CLUB

5242 E HUNT HWY
FLORENCE, AZ 85132
PINAL COUNTY

SHEET TITLE

DETAILS

SHEET NUMBER

A-7

ELECTRICAL SPECIFICATIONS

1. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
2. CONTRACTOR SHALL PERFORM ALL VERIFICATION OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
3. HEIGHTS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.
4. THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
5. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, J-B0X, SWITCH BOX, ETC., IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.)
6. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
7. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA & NBFU
8. CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY AND LOCAL CODES AND O.S.H.A.
9. CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS
10. COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
11. ALL CONDUIT ONLY (C.O.) SHALL HAVE A PULL WIRE OR ROPE.
12. PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
13. ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
14. USE T-TAP CONNECTIONS ON ALL MULTI-CIRCUITS WITH COMMON NEUTRAL CONDUCTOR FOR LIGHTING FIXTURE.
15. ALL CONDUCTORS SHALL BE COPPER.
16. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
17. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES AND DRAWINGS.
18. PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
19. IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES.
20. LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.
21. PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH IBC SECTION 714.
22. RECEPTACLES SHALL BE 20 AMPERE, 125 VOLT A.C., WHITE AS REQUIRED BY THE ARCHITECT OR APPROVED EQUAL.
23. WALL SWITCHES SHALL BE SINGLE-POLE, HUBBELL #1201 OR EQUIVALENT, WHITE AS REQUIRED BY THE ARCHITECT.
24. PLASTIC PLATES FOR ALL SWITCHES, RECEPTACLES, TELEPHONE AND BLANKED OUTLETS, SHALL HAVE ENGRAVED LETTERING WHERE INDICATED ON THE DRAWINGS. WEATHERPROOF RECEPTACLES SHALL HAVE RACO #800, 1/2" RAISED WORK COVERS.
25. WIRE AND CABLE CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM, NO BX OR ROMEX CABLE IS PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS.
26. GROUNDING CONDUCTORS SHALL BE SOLID TINNED COPPER AND ANNEALED #2.
27. GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 10' LONG. COPPERWELD OR APPROVED EQUAL.
28. METER SOCKET AMPERES, VOLTAGE, NUMBER OF PHASES SHALL BE AS NOTED ON THE DRAWINGS. MANUFACTURED BY SQUARE D COMPANY OR APPROVED EQUAL.
29. ALL MATERIALS SHALL BE U.L. LISTED.
30. CONDUIT:
    a. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
    b. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
    c. 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 IN EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.
    d. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE.
31. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS.
32. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
33. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS TO BE PAID BY CONTRACTOR.

GENERAL ELECTRICAL NOTES

1. THE ELECTRICAL INSTALLATION WORK SHALL COMPLY WITH ALL LOCAL, STATE AND NATIONAL CODES, LAWS AND ORDINANCES APPLICABLE TO ELECTRICAL WORK.
2. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND VERIFY EXISTING CONDITIONS BEFORE BIDDING AND SHALL INCLUDE IN HIS BID THE NECESSARY COSTS TO CONSTRUCT THIS PROJECT IN ACCORDANCE WITH INTENT OF THE ELECTRICAL DRAWINGS, SPECIFICATIONS, AND ALL APPLICABLE CODES.
3. ALL MATERIAL AND EQUIPMENT FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE NEW, FREE FROM DEFECTS AND SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER OR HIS REPRESENTATIVE. SHOULD ANY TROUBLE DEVELOP DURING THIS PERIOD DUE TO FAULTY WORKMANSHIP, MATERIAL OR EQUIPMENT, THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIAL AND LABOR TO CORRECT THE TROUBLE WITHOUT COST TO THE OWNER.
4. ALL WORK TO BE EXECUTED IN WORKMANLIKE MANNER AND SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED.
5. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES.
6. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING RELATED TO ELECTRICAL WORK, UNLESS NOTED OTHERWISE AND COORDINATED WITH THE GENERAL CONTRACTOR.
7. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH CIVIL AND ARCHITECTURAL PLANS. THE REQUIREMENTS OF ALL EQUIPMENT ACTUALLY BEING INSTALLED SHALL BE VERIFIED PRIOR TO INSTALLING THE ELECTRICAL WORK.
8. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER TYPE "THWN" #12, & #10 SOLID, #8 AND LARGER STRANDED.
9. ON COMPLETION OF THE WORK, THE INSTALLATION SHALL BE FREE FROM GROUNDS AND SHORT CIRCUITS.
10. ELECTRICAL CONTRACTOR SHALL FURNISH AS-BUILT DRAWINGS TO THE ARCHITECT AND CUSTOMER UPON COMPLETION OF THE JOB.
11. ELECTRICAL WORK SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED, INCLUDING BUT NOT LIMITED, TO COMPLETE ELECTRICAL SYSTEMS POWER AND LIGHTING, TELEPHONE CONDUIT SYSTEM, SIGNAL SYSTEMS, PANEL BOARD(S), CONTROL WIRING, GROUNDING, CONDUIT ONLY SYSTEMS, ETC., AS INDICATED ON ELECTRICAL DRAWINGS AND/OR REQUIRED BY GOVERNING CODES.
12. RACEWAYS SHALL BE: RIGID STEEL CONDUIT: HOT - DIP GALVANIZED HEAVY WALL AS MANUFACTURED BY REPUBLIC, TRIANGLE OR EQUAL, RIGID POLYVINYL CHLORIDE CONDUIT (PVC); HEAVY WALLS SCHEDULE 40 AS MANUFACTURED BY CARLON ELECTRICAL, VISQEEN OR EQUAL. ELECTRICAL METALLIC TUBING (EMT): ZINC-COATED THIN WALL AS MANUFACTURED BY TRIANGLE, REPUBLIC OR EQUAL.
13. FUSE TYPE SHALL BE BUSSMANN OR EQUAL FUSE.
14. PROVIDE ENGRAVED PLASTIC LABELS TO IDENTIFY ALL PANEL BOARDS, XFMRS., DISTRIBUTION PANELS, DISCONNECT SWITCHES, AND TRANSFER SWITCHES. LABELS SHALL READ IN THIS FASHION "A" 208Y/120V 3~, 4W, 225A, CKT. BKR OR FUSES TYPE AND SIZES.
15. E.C. SHALL VERIFY AND TEST GROUND TO SOURCE TO A MAXIMUM OF 5 OHMS. IF THE GROUND TEST DOES NOT ACHIEVE THE 5 OHMS OR LESS, E.C. SHALL BE RESPONSIBLE FOR PROVIDING THE NECESSARY CONDUCTORS AND GROUND RODS TO ACHIEVE 5 OHMS MAXIMUM.
16. BEFORE SUBMITTING BID, VERIFY EXISTING SITE CONDITIONS, ELECTRICAL SERVICE REQUIREMENTS AND THE EXACT SERVING UTILITY POINTS OF CONNECTION.
17. THE ELECTRICAL CONTRACTOR (E.C.) SHALL FURNISH AND PAY FOR ALL PERMITS AND RELATED FEES.
18. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL ELECTRICAL MATERIALS, EQUIPMENT AND WORK, SHOWN ON THESE PLANS ARE TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
19. E.C. SHALL FURNISH AND INSTALL ALL SWITCHES, CONDUITS, WIRES, BOXES, LIGHT FIXTURES (INCLUDING LAMPS), SERVICE DEVICES, RECEPTACLES, SWITCHBOARDS AND PANEL BOARDS, ETC. REQUIRED FOR A COMPLETE AND OPERATING ELECTRICAL SYSTEM.
20. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL/LOCATION INFORMATION RELATING TO THE ELECTRICAL DRAWINGS.
21. ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGES AND HORSEPOWER RATINGS OF ALL MECHANICAL EQUIPMENT.
22. PRIOR TO INSTALLING ANY ELECTRICAL WORK, THE ELECTRICAL CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND REQUIREMENTS ON THE JOB AND BY REFERENCE TO ARCHITECTURE, MECHANICAL AND EQUIPMENT SUPPLIERS DRAWINGS. SHOULD THERE BE ANY QUESTION OR PROBLEM CONCERNING THE NECESSARY PROVISIONS TO BE MADE, PROPER DIRECTIONS SHALL BE OBTAINED BEFORE PROCEEDING WITH ANY WORK.
23. OUTLET AND JUNCTION BOXES SHALL BE SIZED PER CODE FOR THE QUANTITY OF WIRES THEY CONTAIN. SEE ARTICLE 370 OF N.E.C. PROVIDE ADDITIONAL BOXES AND EXTENSION RINGS AS REQUIRED.
24. ELECTRICAL CONTRACTOR SHALL COMPLY WITH CABLE BENDING RADIUS REQUIREMENTS PER CABLE MANUFACTURERS' S SPECIFICATION.
25. CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMMATIC, NOT INDICATING THE ROUTING REQUIRED. THE CONTRACTOR SHALL ROUTE CONDUITS AS REQUIRED BY THE CONDITIONS OF INSTALLATION.
26. ALL EQUIPMENT PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL BE LISTED AND LABELED BY A NATIONALLY-RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, FOR THE CONDITIONS OF THE INSTALLATION.
27. PLANS MAY INDICATE THE NUMBER OF PHASE NEUTRAL, AND GROUND CONDUCTORS WHERE MORE THAN THREE CONDUCTORS ARE TO BE INSTALLED IN A CONDUIT(THREE OR LESS CONDUCTORS ARE NOT SHOWN). ADDITIONAL CONDUCTORS REQUIRED FOR CONTROL SHALL BE INCLUDED EVEN IF NOT EXPLICITLY SHOWN.
28. WHERE SIZE IS NOT SHOWN ON THE DRAWINGS, CIRCUITS SHALL CONSIST OF #12 PHASE AND GROUNDED (NEUTRAL CONDUCTORS) AND A #12 CU GROUND IN A 3/4" CONDUIT.
29. UNLESS SPECIFICALLY NOTED OTHERWISE, THE ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL UTILIZATION EQUIPMENT SHOWN ON THE DRAWINGS. VERIFY THE TYPE OF FINAL CONNECTION AND PROVIDE APPROPRIATE WIRING METHOD.
30. PRIOR TO TRENCHING IN ANY AREA THE CONTRACTOR SHALL CONTACT ELECTRICAL, COMMUNICATIONS/DATA, CABLE T.V., GAS, AND WATER UTILITY PROVIDERS (BLUE STAKE) AND HAVE ALL UTILITIES IN THE AREA IDENTIFIED. IN ADDITION, THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A SUBCONTRACTOR SPECIALIZING IN THE LOCATION OF UNDERGROUND STRUCTURES TO IDENTIFY AND OBSTACLES IN THE PATH OF TRENCHING (PRIOR TO COMMENCING WORK). DAMAGE TO ANY UNDERGROUND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
31. UTILITY COORDINATION
    a. THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF DRAWINGS TO ELECTRICAL AND TELCO UTILITIES WITHIN ONE WEEK OF NOTICE TO PROCEED.
    b. THE CONTRACTOR SHALL NOT TRENCH OR INSTALL CONDUITS (ON THE UTILITY OR LOAD SIDE) TO THE S.E.S, THE UTILITY TRANSFORMER (PRIMARY OR SECONDARY), OR TO THE UTILITY CONNECTION POINT BEFORE RECEIVING A FINAL DESIGN FROM THE UTILITY.
    c. THE CONTRACTOR SHALL NOT INSTALL EQUIPMENT PADS FOR THE SES OR ANY UTILITY EQUIPMENT (TRANSFORMERS, SWITCHING CABINETS, ETC.) PRIOR TO RECEIPT OF FINAL PLANS FROM THE UTILITY.
    d. THE CONTRACTOR SHALL NOT BE COMPENSATED FOR ADDITIONAL WORK REQUIRED TO MEET THE REQUIREMENTS OF THE UTILITY WHICH IS THE RESULT OF PROCEEDING PRIOR TO RECEIPT OF A FINAL UTILITY DESIGN.
32. SERIES RATING NOTES:TO ENSURE THAT EACH PROTECTIVE DEVICE WHICH IS DEPENDENT ON ANOTHER DEVICE WILL INTERRUPT THE AVAILABLE SHORT CIRCUIT AT THE LOCATION WHERE IT IS INSTALLED, IT MUST MEET THE FOLLOWING REQUIREMENTS:
    a. SWITCHBOARD COMPONENTS, INCLUDING OVER CURRENT PROTECTIVE DEVICES, SHALL BE FULLY RATED FOR THE AVAILABLE FAULT CURRENT SHOWN.
    b. PROVIDE IDENTIFICATION AT THE ENCLOSURE OF PANEL BOARDS WHERE BREAKERS ARE APPLIED IN SERIES COMBINATION, STATING: "CAUTION - SERIES RATED SYSTEM. _____ AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED." CONTRACTOR TO FILL IN BLANK WITH AVAILABLE FAULT CURRENT AS SHOWN ON THE SINGLE-LINE DIAGRAM.
    c. PER NEC ARTICLE 110-22 (2005), PROVIDE IDENTIFICATION AT EACH DISCONNECTING MEANS FEEDING DOWNSTREAM DEVICES APPLIED IN SERIES COMBINATION, STATING: "CAUTION - SERIES COMBINATION SYSTEM RATED _____AMPERES. IDENTIFIED REPLACEMENT COMPONENT REQUIRED." CONTRACTOR TO FILL IN BLANK WITH AVAILABLE FAULT CURRENT AS SHOWN ON THE SINGLE-LINE DIAGRAM.
    d. AIC RATING SHOWN AT PANEL BOARDS IS MINIMUM RATING FOR OVERCURRENT PROTECTIVE DEVICES. EACH DEVICE SHALL BE FULLY-RATED OR SERIES RATED WITH UPSTREAM DEVICE AT AFC AS SHOWN ON THE SINGLE-LINE DIAGRAM.
    e. NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE DESIGN ELECTRICAL ENGINEER AND THE ELECTRICAL INSPECTOR.
    f. THE TOTAL MOTOR LOAD CONNECTED BETWEEN SERIES RATED DEVICES DOES NOT EXCEED 1% OF THE INTERRUPTING RATING OF THE DOWNSTREAM DEVICE.

CODE INFORMATION:

2017 NEC, 2018 IECC. ALL SYSTEM SHALL BE IN COMPLIANCE WITH ABOVE CODES AS ADOPTED BY THE CITY OF FLORENCE, AZ.

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JOB NO: 2024-071
DFT: JW
DSN: CM
CHK: CS

PREPARED FOR:

verizon

6955 W. MORELOS PL., CHANDLER, AZ 85226
PHONE: (480) 777-4360
FAX: (480) 777-4391

CONSULTING FIRM

PINNACLE CONSULTING, INC
Site Acquisition | Engineering | Construction

1426 NORTH MARVIN STREET # 101
GILBERT, AZ 85233

PROJECT NO:	AZ5 OASIS GOLF CLUB
DRAWN BY:	M.G.
CHECKED BY:	KF

REV	DATE	DESCRIPTION	BY
A	04/22/24	ISSUED FOR REVIEW	M.G.
0	05/13/24	ISSUED FOR PERMIT	CDA

Registered Professional Engineer
CHRIS L. SARMIENTO
27677
05/23/24
Date Signed
ARIZONA, U.S.A.
EXPIRES 03/31/2027

AZ5 OASIS GOLF CLUB

5242 E HUNT HWY
FLORENCE, AZ 85132
PINAL COUNTY

SHEET TITLE

ELECTRICAL NOTES

SHEET NUMBER

E-1

WIRE & CONDUIT

———	CONDUIT CONCEALED IN WALLS OR ABOVE CEILING W/ 2 #12, #12 GND, 3/4" C., UNLESS NOTED OTHERWISE.
- - - - - - -	CONDUIT ROUTED UNDER FLOOR OR BELOW GRADE W/ 2 #12, #12 GRD, 3/4" C., UNLESS NOTED OTHERWISE.
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	INDICATES A PHASE CONDUCTOR INDICATES A GROUNDED (NEUTRAL) CONDUCTOR INDICATES AN EQUIPMENT GROUNDING CONDUCTOR INDICATES AN ISOLATED GROUND CONDUCTOR (SAME SIZE AS EQUIPMENT GROUNDING CONDUCTOR)
	GROUND LEAD COILED ABOVE SLAB

ELECTRICAL SYMBOLS

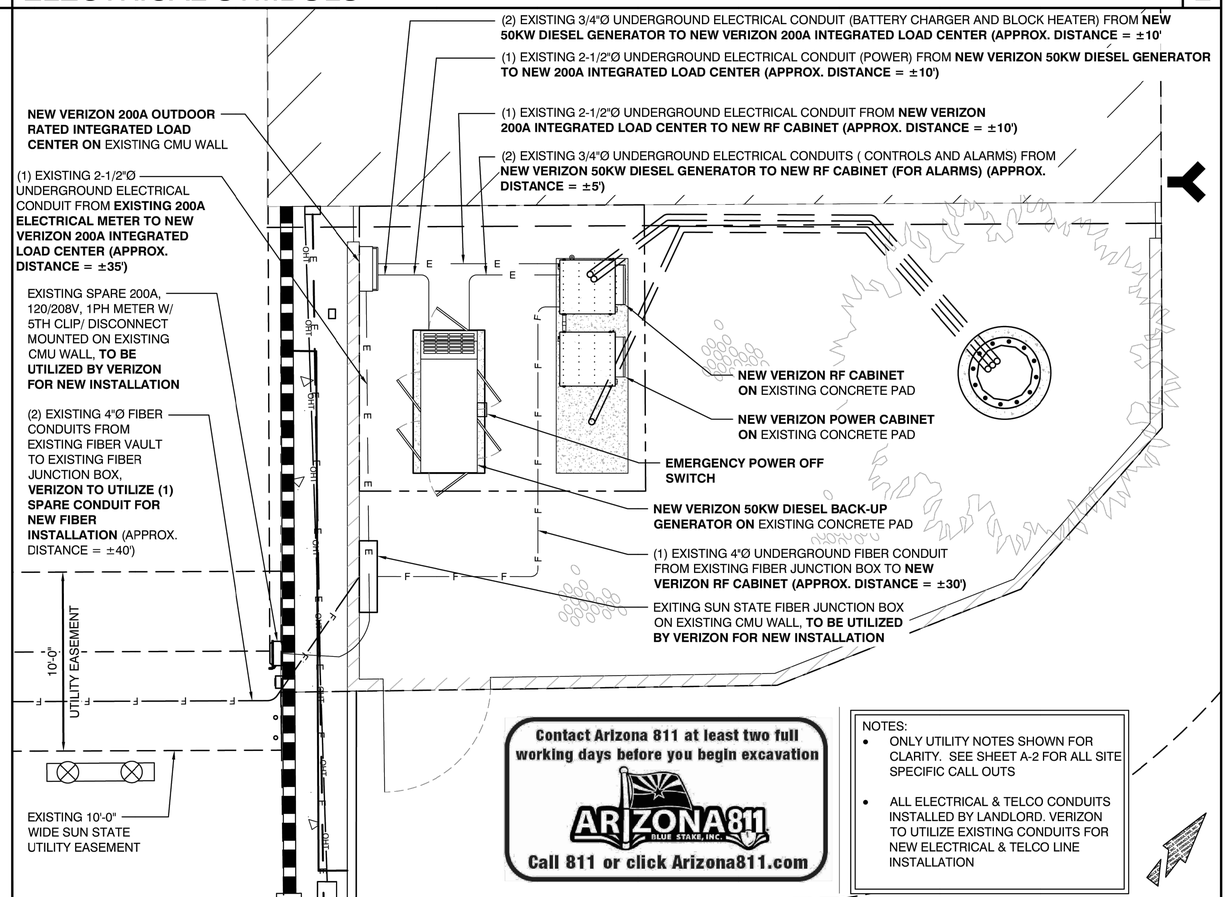
	TEST WELL/GROUND ROD
	GROUND ROD - 5/8" x 10' COPPER CLAD
	CADWELD CONNECTION
	MECHANICAL CONNECTION
	GROUNDING WIRE
	GROUND BAR
	SURGE SUPPRESSOR GROUND BAR
	FUSED DISCONNECT SWITCH
M	METER AND MAIN BREAKER
	MANUAL XFR SWITCH AND GEN. RECPT.
GPS	GPS ANTENNA
TMG	TELCO BOARD
- - - - - - -	ELECTRICAL POWER
———	T-1 LINE
	SURFACE MOUNTED PANEL BOARD

1-LINE DIAGRAM

	CIRCUIT BREAKER, FIXED MOUNTED.
	CIRCUIT BREAKER, DRAWOUT MOUNTING.
	FUSIBLE SWITCH. SIZE AS INDICATED ON DRAWINGS.
	DISTRIBUTION TRANSFORMER
	CURRENT TRANSFORMER
M	METERING DEVICE
	PANELBOARD, MAIN LUG ONLY
	PANELBOARD, MAIN CIRCUIT BREAKER
	TRANSFER SWITCH - MANUAL OR AUTOMATIC

NOT USED 1

ELECTRICAL SYMBOLS 2



Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA811 BLUE STAKE, INC.

Call 811 or click Arizona811.com

NOTES:
- ONLY UTILITY NOTES SHOWN FOR CLARITY. SEE SHEET A-2 FOR ALL SITE SPECIFIC CALL OUTS
- ALL ELECTRICAL & TELCO CONDUITS INSTALLED BY LANDLORD. VERIZON TO UTILIZE EXISTING CONDUITS FOR NEW ELECTRICAL & TELCO LINE INSTALLATION

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DFT: JW
DSN: CM
JOB NO: 2024-071
CHK: CS

NOT USED 3

POWER PLAN 4

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

PREPARED FOR:

verizon

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PROJECT NO:	AZ5 OASIS GOLF CLUB
DRAWN BY:	M.G.
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AZ5 OASIS GOLF CLUB

5242 E HUNT HWY
FLORENCE, AZ 85132
PINAL COUNTY

SHEET TITLE

ELECTRICAL DETAILS

SHEET NUMBER

E-2

Power Company: APS

Submit drawings to Utility Company representative as required in the General Notes included in the Electrical Drawings. Pre construction meeting required before any work starts.

CALL TWO WORKING DAYS BEFORE YOU DIG
263-1100
INSIDE MARICOPA COUNTY
1-800-STAKE-IT
OUTSIDE MARICOPA COUNTY

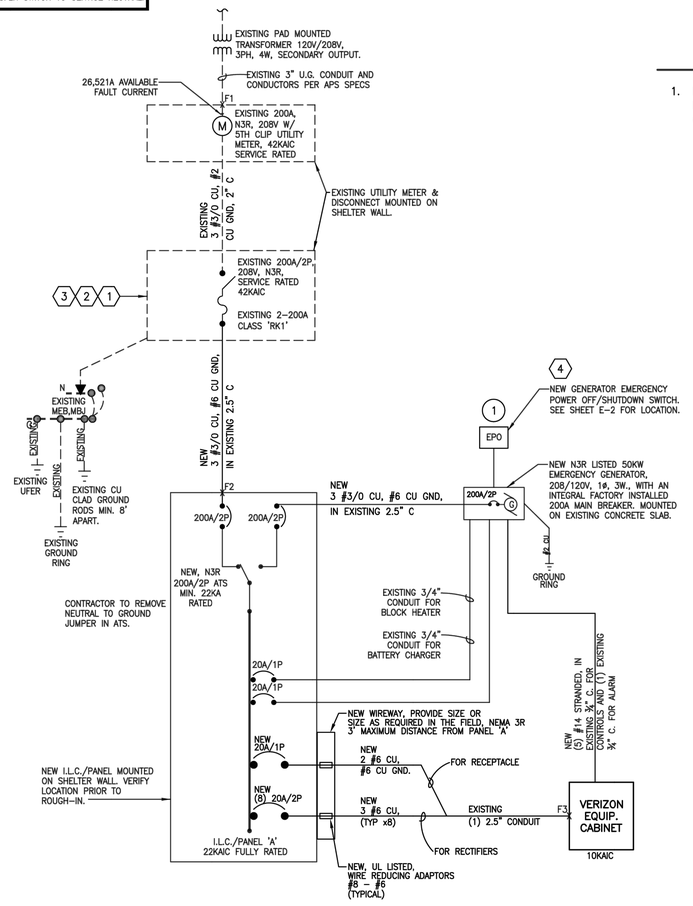
NOTE:
ALL WIRES SHALL BE COPPER THWN WIRE OR XHHW UNLESS NOTED OTHERWISE.

NOTE:
PRIOR TO RUNNING CONDUIT ROUTE – CONTRACTOR SHALL CONTACT THE VERIZON PROJECT MANAGER AND VERIFY THE EQUIPMENT CABINET LAYOUT CONFIGURATION AND ROUTE CONDUITS ACCORDINGLY.

NOTE:
PRE-CONSTRUCTION MEETING AND ELECTRICAL EASEMENT REQUIRED.

GENERATOR SHALL COMPLY WITH SECTION 445 OF THE 2017 NEC

GENERATOR NEUTRAL SHALL NOT BE BONDED TO FRAME. IT SHALL BE SOLIDLY CONNECTED THROUGH TRANSFER SWITCH TO SERVICE NEUTRAL.



ONE-LINE DIAGRAM
N.T.S.

1-PHASE, LINE-TO-LINE SHORT CIRCUIT CALCULATIONS BASED ON THE "POINT-BY-POINT" METHOD

I sca = Isc x M M = 1/(1 + f) Cable: f = 2 x L x I / C x E Xfmr: f = Ip sc x Vp x %Z/100000 x KVA / Is (sca) = Vp/Vs x M x Is

where:
I sc = the available short-circuit current, in amperes, at the beginning of the circuit.
L = the length of circuit to the fault, in feet.
C = the constant from Table C for the type of conductors and circuit arrangement. For parallel runs, multiply "C" value by the number of conductors per phase.
E = Line-to-line voltage or Line-to-ground voltage, where applicable.
Ip = primary current, in amperes.
Vp = primary line-to-line voltage of transformer, in volts.
Vs = secondary line-to-line voltage of transformer, in volts.
%Z = impedance of transformer.
* Use row "ca" for feeder cables; and row "xf" for transformers.

Fault Point	*	Description	Source Isc (amps)	Wire / Cable Size	No. of cond. per phase	Type of conduit	"C" value	E (volts)	L (length) in feet	XFMR. KVA	XFMR. %Z	Vp (volts)	Vs (volts)	f	M	I sca (amps)
F1	ca	SERVICE ENTRANCE	26521.00											0.00	1.00	26521.00
	xf	(PER APS CHARTS)												0.00	1.00	0.00
F2	ca	I.L.C./PANEL 'A'	26521.00	#3/0 CU	1	NON-MAG	13923	208	35					0.64	0.61	16161.00
	xf													0.00	1.00	0.00
F3	ca	EQUIPMENT CABINET	16161.00	#6 CU	1	NON-MAG	2430	208	10					0.64	0.61	9857.38
	xf													0.00	1.00	0.00

Note: The above calculations neglected motor short-circuit contributions. If significant, motor short-circuit contribution may be added to the transformer secondary short-circuit current value. A practical estimate of motor contribution is to multiply the total motor load in amperes by 4. Lengths are for calculations only. DO NOT USE for cost estimating or take-off purposes.

KEY NOTES (#)

1. PROVIDE EMERGENCY POWER OFF/SHUTDOWN SWITCH FOR GENERATOR LOCATED OUTSIDE THE GENERATOR ENCLOSURE, PER NEC 445.18 (B)(1) AND (B)(2).

NEW PLACARD NOTES ON S.E.S.
"CAUTION"
OPTIONAL 50KW, 120V/208V, 1PH, 3W DIESEL DRIVEN BACKUP GENERATOR FOR T-MOBILE ADJACENT TO EQUIPMENT CABINETS. (1)

NEW PLACARD NOTES ON DISCONNECT
"CAUTION"
GENERATOR IS GROUNDED AT THIS LOCATION. DO NOT REMOVE SYSTEM BOND JUMPER. (2)

NEW PLACARD NOTES AT SERVICE DISCONNECT
PER NEC ARTICLE 701.7(B) AND 702.2(B)
(AT SERVICE DISCONNECT PER THIS DRAWING).
WARNING: SHOCK HAZARD EXISTS IF GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE ALTERNATE SOURCE(S) IS ENERGIZED. (3)

CONTRACTOR TO REMOVE NEUTRAL TO GROUND JUMPER INSIDE AUTOMATIC TRANSFER SWITCH (ATS) AND ALSO REMOVE THE NEUTRAL CONNECTION TO THE GENERATOR FRAME. CONTRACTOR SHALL PROVIDE LABELING (AT THE GENERATOR) AS FOLLOWS:
PER NEC 445.11
"WARNING: THE GENERATOR IS CONFIGURED AS A NON-SEPARATELY DERIVED SYSTEM. THE GENERATOR NEUTRAL IS NOT BONDED TO THE GENERATOR FRAME." (4)

GENERATOR SHALL COMPLY WITH SECTION 445 OF THE 2017 NEC

GENERATOR NEUTRAL SHALL NOT BE BONDED TO FRAME. IT SHALL BE SOLIDLY CONNECTED THROUGH TRANSFER SWITCH TO SERVICE NEUTRAL.

PROVIDE APPROVED ARC-FLASH HAZARD WARNING ON ALL REQUIRED ELECTRICAL EQUIPMENT PER NEC 110.16

WARNING
Electric Arc Flash Hazard
Will cause severe injury or death
Wear proper protective equipment before opening or performing diagnostic measurements while energized. (See NFPA 70E)

ELECTRICAL CONTRACTOR SHALL PROVIDE LABELING OF THE AVAILABLE FAULT CURRENT FOR EACH PANEL AS NOTED, PER NEC 110.24.

NEW — EXISTING (1) 2.5" CONDUIT *

ELECTRICAL PANEL SCHEDULE

PANEL: A — 10KAIC FULLY RATED
VOLTAGE: 240 / 120 V 1ø,3W
MAINS: 200 A MCB
BUS: 200 A CU
LOCATION: PER PLAN
MOUNTING : SURFACE
NEMA RATING : N3R

LOAD DESCRIPTION	EMT COND	CU GRND	PHASE NEUT	CKT BRKR	CIR NO.	LOAD AMPS PHASE A	LOAD AMPS PHASE C	CIR NO.	CKT BRKR	PHASE NEUT	CU GRND	EMT COND	LOAD DESCRIPTION
MISC		6	6	20	1	12.0			20	12	12	3/4"	MISC
RECTIFIER #1						11.7		2					GEN. BLOCK HEATER
MISC			6	2	3		12.0		20	12	12	3/4"	MISC
CONT.							4.2	4					GEN. BATTERY CHARGER
MISC		6	6	20	5	12.0							BUSSED SPACE
RECTIFIER #2						0.0		6					
MISC			6	2	7		12.0						BUSSED SPACE
CONT.							0.0	8					
MISC		6	6	20	9	12.0							BUSSED SPACE
RECTIFIER #3						0.0		10					
MISC			6	2	11		12.0						BUSSED SPACE
CONT.							0.0	12					
MISC		6	6	20	13	12.0							BUSSED SPACE
RECTIFIER #4						0.0		14					
MISC			6	2	15		12.0						BUSSED SPACE
CONT.							0.0	16					
MISC		6	6	20	17	12.0							BUSSED SPACE
RECTIFIER #5						0.0		18					
MISC			6	2	19		12.0						BUSSED SPACE
CONT.							0.0	20					
MISC		6	6	20	21	12.0							BUSSED SPACE
RECTIFIER #6						0.0		22					
MISC			6	2	23		12.0						BUSSED SPACE
CONT.							0.0	24					
MISC		6	6	20	25	12.0							BUSSED SPACE
RECTIFIER #X7						0.0		26					
MISC			6	2	27		12.0						BUSSED SPACE
CONT.							0.0	28					
MISC		6	6	20	29	12.0							BUSSED SPACE
RECTIFIER #8						0.0		30					
MISC			6	2	31		12.0						BUSSED SPACE
CONT.							0.0	32					
RECEPTACLES		6	6	20	33	3.0							BUSSED SPACE
CABINET RECEPTACLE						0.0		34					
AMPS PER PHASE (CODE LOAD)						110.7	100.2						

CONTRACTOR TO INSTALL APPROVED HANDLE TIE ON ALL SHARED NEUTRAL CIRCUITS.

2 PHASE DEMAND (KVA)	
	0.0
	0.0
RECEPTACLES	360.0
	0.0
	0.0
MISCELLANEOUS	24948.0
	0.0
	0.0
	0.0
	0.0
	0.0
TOTAL VA	25308.0
25.3 KVA @ 240 V 1ø	
105.5 A @ 240 V 1ø	

SYMBOL LIST
(MCB) MAIN CIRCUIT BREAKER

CODE LOAD SUMMARY
PANEL 'A' @ 240V = 105.5A

* REFER TO SINGLE LINE DIAGRAM FOR MORE INFORMATION. #8 AWG CONDUCTORS ARE TO BE USED TO TERMINATE IN BREAKER. EXTEND #6 AWG FROM WIREWAY TO VERIZON CABINET UTILIZING UL LISTED WIRE REDUCERS. SEE ONE-LINE.

Note: There is a total of (26) current carrying conductors in a single conduit.
Adjustment factor of 45% per NEC Table 310.15(B)(3)(a) shall apply.
#6 for 20A/2P Breaker: 0.45 x 55A = 24.75A

CONDUIT SIZING: ASSUME 2.5" EMT
AT 40% FILL PER NEC 358, TABLE 4 – 2.343 SQ. IN AREA.
WIRES: USING THWN-2, CU. (INCLUDING GROUND)
#6 – 0.0507 SQ. IN X 27 = 1.3689 SQ. IN
TOTAL = 1.3689 SQ. IN
2.5" EMT CONDUIT AT 40% FILL PER NEC 358, TABLE 4 – 2.343 SQ. INCH AREA IS ADEQUATE TO HANDLE THE TOTAL OF (27) WIRES, INCLUDING GROUND WIRE, AS INDICATED ABOVE.

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aseiengineering.com o 602.287.0300 f 602.287.0600

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verizon
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A	04/22/24	ISSUED FOR REVIEW	M.G.
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Registered Professional Engineer
27677
CHRIS L. SARMIENTO
05/23/24
Date Signed
ARIZONA, U.S.A.
EXPIRES 03/31/2027

AZ5 OASIS GOLF CLUB
5242 E HUNT HWY
FLORENCE, AZ 85132
PINAL COUNTY

SHEET TITLE
ONE-LINE DIAGRAM, PANEL SCHEDULE, FAULT CALCS

SHEET NUMBER
E-3

C.O.	= CONDUIT ONLY	E.C.	= ELECTRIC CONTRACTOR
EMT.	= ELEC. METALLIC TUBING (THIN WALL)	G.C.	= GENERAL CONTRACTOR
PVC.	= SCHEDULE 40 PLASTIC CONDUIT	1P, 2P, & 3P	= SINGLE POLE, TWO , & THREE POLE
GRC.	= GALVANIZED RIGID CONDUIT	EGB	= EQUIPMENT GROUND BUS
FIXT.	= FIXTURE	MGB	= MAIN GROUND BUS
MTD.	= MOUNTED	AFC	= AVAILABLE FAULT CURRENT
W.A.	= WEATHERPROOF	CLF	= CURRENT LIMITING FUSE
U.O.N.	= UNLESS OTHERWISE NOTED	AWG	= AMERICAN WIRE GAUGE
G. OR GRD.	= GROUND	BCW	= BARE COPPER WIRE
N. OR NEUT.	= NEUTRAL	GPS	= GLOBAL POSITIONING SYSTEM
A. OR AMP.	= AMPERE	PCS	= PERSONAL COMMUNICATION SERVICE
KW.	= KILOWATTS	PPC	= POWER PROTECTION CABINET
W.	= WATTS	RWY	= RACEWAY
LV.	= LOW VOLTAGE	TYP.	= TYPICAL
~	= PHASE	RGS	= RIGID GALVANIZED STEEL
DEF	= DUAL ELEMENT FUSES	EMT	= ELECTRICAL METALLIC TUBING
DIA	= DIAMETER	DWG	= DRAWING
H.P. OR HP	= HORSEPOWER	IGR	= INTERIOR GROUND RING (HALO)
XFMR	= TRANSFORMER	CCA	= ANTENNA CABLE COVER ASSEMBLY
C.A.	= CIRCUIT BREAKER	BTS	= BASE TRANSMISSION SYSTEM
CKT.	= CIRCUIT	GEN	= GENERATOR
SW.	= SWITCH	GR	= GROWTH
MTS	= MANUAL TRANSFORMER SWITCH	BSCW	= BARE STRANDED COPPER WIRE
F.A.	= FIRE ALARM	ISCW	= INSULATED STRANDED COPPER WIRE
RECPT.	= RECEPTACLE		

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JOB NO: 2024-071

DFT: JW
DSN: CM
CHK: CS

ABBREVIATIONS

SCALE: NTS

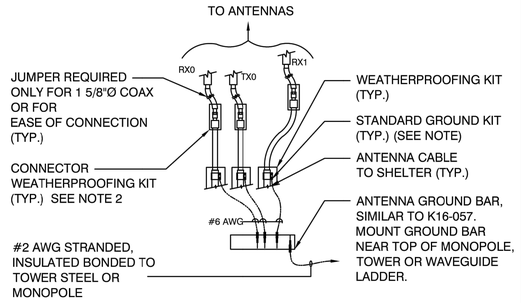
1

GROUNDING NOTES

1. ALL GROUNDING LEADS INSTALLED TO ENSURE A SMOOTH PATH TO COUNTERPOISE WITHOUT KINKS OR SHARP BENDS OR RETURN UPWARDS.
2. CONTRACTOR WILL UTILIZE THE "FALL OF POTENTIAL MEASUREMENT METHOD" PER NETA STANDARDS, UTILIZING THE AEMC-4500 MEASURING DEVICE OR APPROVED VERIZON EQUAL. ALL GROUND TESTING TO BE PERFORMED BEFORE CONNECTING TO POWER UTILITY GROUND AND PRIOR TO ANY BACKFILL OF GROUNDING TRENCHES. ELECTRICAL CONTRACTOR WILL PROVIDE A MINIMUM OF ONE (1) INSPECTION PORT FOR TESTING GROUNDING RESISTANCE. CONTRACTOR WILL INSTALL THE MINIMUM OF ONE (1) INSPECTION PORT FOR TESTING GROUNDING RESISTANCE, CONTRACTOR WILL INSTALL THE MINIMUM NUMBER OF GROUND RODS INDICATED, SEE GROUNDING PLAN FOR APPROX. LOCATIONS. CONTRACTOR WILL INSTALL ADDITIONAL GROUNDING AS REQUIRED TO ACHIEVE 5 OHMS OR LESS TO GROUND.
3. IT IS THE INTENT THAT AT NO TIME ARE THE GROUND LEADS TO BE INSTALLED BELOW THE SURFACE OF THOSE ARES DESIGNATED FOR FUTURE DISASSOCIATED PADS OR SHELTERS.
4. THE CONTRACTOR WILL DOCUMENT MEGGER TEST RESULTS, REDLINE THE DRAWINGS FOR THE LOCATION OF ALL UNDERGROUND GROUNDING COMPONENTS AND PHOTOGRAPH WITH A DIGITAL CAMERA THE ENTIRE NEWLY INSTALLED GROUNDING SYSTEM PRIOR TO BACKFILL OF ANY OPEN TRENCHES.
5. ANY EXCEPTIONS TO THIS BASIC GROUNDING DESIGN GUIDELINE, ROUTING DESIGN, OR MODIFICATIONS, WILL BE DOCUMENTED AND DIMENSIONED BY THE WAY OF RED LINE DRAWINGS. IT THE RESPONSIBILITY OF THE SELECTED CONTRACTOR TO ENSURE THE NEWLY INSTALLED GROUNDING SYSTEM MEETS THE VERIZON WIRELESS STANDARDS OF 5 OHMS OR LESS.

NOTES:

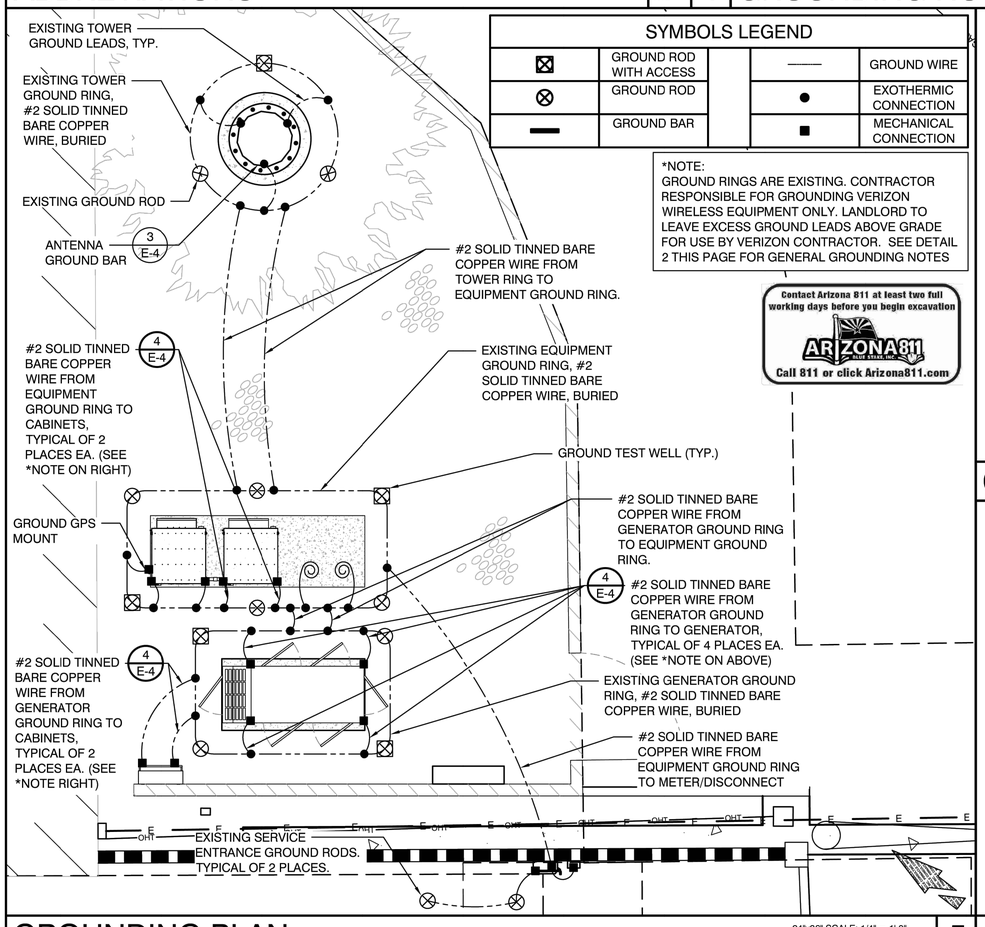
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE ANDREWS. (TYPE & PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.)



ANT. GROUND BAR DETAIL

SCALE: NTS

3



SYMBOLS LEGEND

⊠	GROUND ROD WITH ACCESS	——	GROUND WIRE
⊗	GROUND ROD	●	EXOTHERMIC CONNECTION
▬	GROUND BAR	■	MECHANICAL CONNECTION

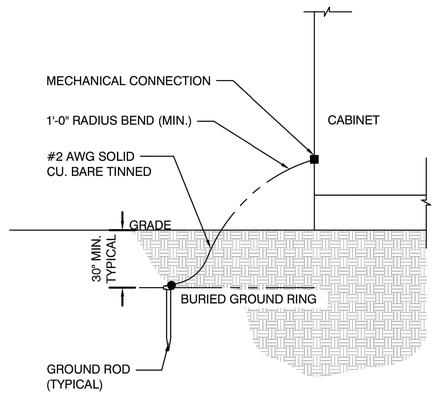
*NOTE:
GROUND RINGS ARE EXISTING. CONTRACTOR RESPONSIBLE FOR GROUNDING VERIZON WIRELESS EQUIPMENT ONLY. LANDLORD TO LEAVE EXCESS GROUND LEADS ABOVE GRADE FOR USE BY VERIZON CONTRACTOR. SEE DETAIL 2 THIS PAGE FOR GENERAL GROUNDING NOTES

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

GROUNDING PLAN

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

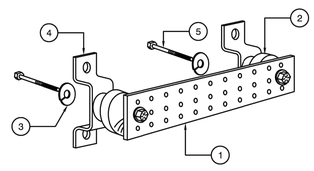
5



CABINET GROUND DETAIL

SCALE: NTS

4



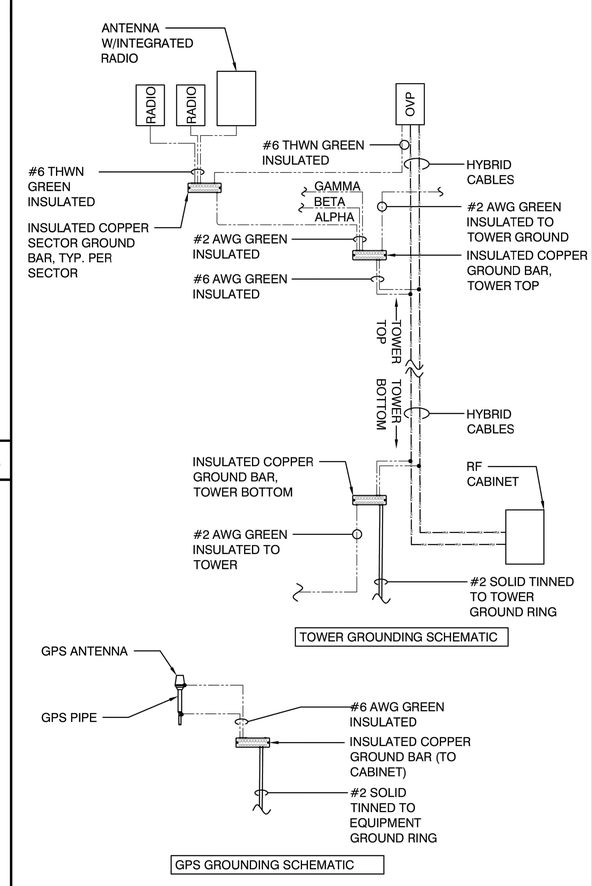
NOTES:

1) COPPER GROUND BAR OR APPROVED EQUAL, 1/4" x 4" X 12", HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
2) SPACERS AS REQUIRED
3) 5/8" LOCKWASHERS
4) WALL MOUNTING BRACKET
5) 5/8" -11 x 1" H.H.C.S. BOLTS
6) GROUND BAR TO BE PURCHASED FROM ROHN.

GROUND BAR DETAIL

SCALE: NTS

6



TOWER GROUNDING SCHEMATIC

GPS GROUNDING SCHEMATIC

GROUNDING SCHEMATIC

SCALE: NTS

7

PREPARED FOR:

verizon

6955 W. MORELOS PL., CHANDLER, AZ 85226
PHONE: (480) 777-4360
FAX: (480) 777-4391

CONSULTING FIRM

PINNACLE CONSULTING, INC
Site Acquisition | Engineering | Construction

1426 NORTH MARVIN STREET # 101
GILBERT, AZ 85233

PROJECT NO:	AZ5 OASIS GOLF CLUB
DRAWN BY:	M.G.
CHECKED BY:	KF

REV	DATE	DESCRIPTION	BY
A	04/22/24	ISSUED FOR REVIEW	M.G.
0	05/13/24	ISSUED FOR PERMIT	CDA

Registered Professional Engineer
CHRIS L. SARMIENTO
27677
05/23/24
ARIZONA, U.S.A.
EXPIRES 03/31/2027

AZ5 OASIS GOLF CLUB

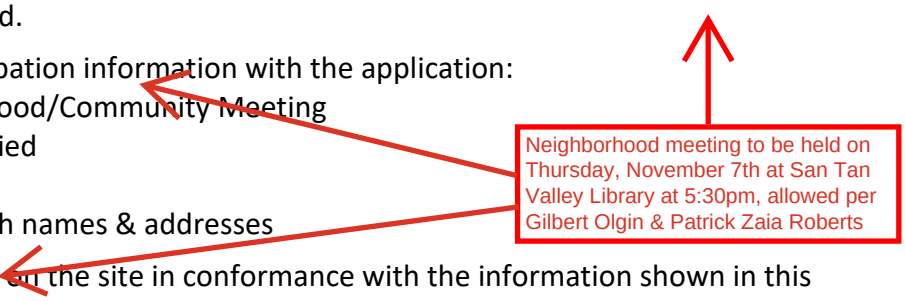
5242 E HUNT HWY
FLORENCE, AZ 85132
PINAL COUNTY

SHEET TITLE
GROUNDING PLAN AND GROUNDING DETAILS

SHEET NUMBER
E-4

Application Checklist:

- ☑ Submit a detailed site plan, at least 8½ X 11, but not larger than 11" X 17". The site plan must include the following:
  - Size and shape of parcel; property dimensions; north arrow
  - Adjacent streets; rights-of-way, easements and setbacks; indicate size; purpose and whether public or private
  - Location, size and use of all existing and proposed buildings; show setbacks from property boundary lines and between structures
  - Driveways and parking areas, show access, dimensions and surface material
  - Existing and proposed utilities, show location of lines, size and serving company
  - Any other information as may be applicable – landscaping, natural features i.e.: washes, excavation sites, etc.
- ☑ Submit the "Supporting Information" sheet (if applicable) and/or the "Submittal Checklist" for the requested action. Forms are in this packet.
- ☑ Submit a list of all property owners within 1200' of the subject property boundary showing name, mailing address and tax parcel numbers. This list must be obtained within the 30 days prior to application submission.
- ☑ Submit a map of the area with the 1200' boundary shown. (A Tax Assessor Parcel Map is acceptable).
- ☑ Submit the non-refundable filing fee according to the fee schedule shown on page 1 of the application. (The application is not considered filed until the fees are paid.)
- ☑ Submit a CD or Jump Drive which contains a copy of the application and narrative in PDF format.
- ☐ Hold a neighborhood/community meeting prior to application submittal:
  - Notify all property owners within 1200'
  - Hold the meeting within 5 miles of the subject property
  - Hold the meeting between 5:00pm and 9:00pm
  - Applicant will be required to notify any jurisdiction within three (3) miles of the subject site boundary and provide proof via letter or email correspondence of sent notification and any jurisdiction response received.
- ☐ Include neighborhood Public participation information with the application:
  - Copy of Notice of Neighborhood/Community Meeting
  - List of property owners notified
  - Meeting Minutes
  - Attendance sign-in sheet with names & addresses
- ☐ Install Broadcast Notification Sign(s) on the site in conformance with the information shown in this application.



Please feel free to compile all information into a separate Narrative

Please be aware that earth fissure maps are available online from the Arizona State Geologic Survey.