

Plotted: 9/14/2026 8:43 AM (XXX) File: tiny home sage memorial.gamada.az_electrical.dwg

VOLTAGE DROP SCHEDULE							
120V BRANCH CIRCUITS: MAXIMUM CIRCUIT LENGTH: 3% MAX VOLTAGE DROP							
		WIRE GAUGE					
		#12	#10	#8	#6	#4	#3
BRANCH CIRCUIT WATTAGE	3840	N/A	N/A	69	110	174	220
	3500	N/A	N/A	76	120	191	242
	3250	N/A	N/A	82	130	206	--
	3000	N/A	N/A	88	140	223	--
	2880	N/A	58	92	146	233	--
	2500	N/A	66	106	169	268	--
	2250	N/A	74	118	187	298	--
	1920	54	87	138	220	--	--
	1800	58	92	148	234	--	--
	1500	70	111	177	281	--	--
	1200	87	139	221	--	--	--
	1000	105	167	266	--	--	--
	700	150	238	--	--	--	--

VOLTAGE DROP SCHEDULE							
208V/1Ø BRANCH CIRCUITS: MAXIMUM CIRCUIT LENGTH: 3% MAX VOLTAGE DROP							
		WIRE GAUGE					
		#12	#10	#8	#6	#4	#3
BRANCH CIRCUIT WATTAGE	8320	N/A	N/A	96	152	241	--
	7488	N/A	N/A	106	169	269	--
	6656	N/A	N/A	120	190	302	--
	5764	N/A	N/A	138	220	--	--
	4992	N/A	100	160	253	--	--
	4160	N/A	120	192	304	--	--
	3328	94	150	240	--	--	--
	2080	151	251	--	--	--	--
	1456	216	--	--	--	--	--

VOLTAGE DROP SCHEDULE							
208V/3Ø BRANCH CIRCUITS: MAXIMUM CIRCUIT LENGTH: 3% MAX VOLTAGE DROP							
		WIRE GAUGE					
		#12	#10	#8	#6	#4	#3/Ø
BRANCH CIRCUIT WATTAGE	36000	N/A	N/A	N/A	N/A	N/A	452
	14411	N/A	N/A	111	176	280	--
	11528	N/A	N/A	138	220	--	--
	9727	N/A	N/A	164	260	--	--
	8646	N/A	116	185	292	--	--
	7205	N/A	139	222	--	--	--
	5764	109	174	277	--	--	--
	4323	146	232	--	--	--	--
	3602	175	279	--	--	--	--
	2882	219	--	--	--	--	--

VOLTAGE DROP NOTES

- A. THE CONDUCTORS FOR FEEDER AND BRANCH CIRCUITS COMBINED SHALL BE SIZED FOR A MAXIMUM OF (5) PERCENT VOLTAGE DROP TOTAL.
- B. THE VOLTAGE DROP OF THE SERVICE FEEDERS SHALL NOT EXCEED (2) PERCENT. (CONTRACTOR TO VERIFY FEEDER LENGTH IN FIELD. UPSIZE FEEDER CONDUCTOR SIZE AS NEEDED, KEEP VOLTAGE DROP BELOW (2) PERCENT.)
- C. THE VOLTAGE DROP OF ANY BRANCH CIRCUIT SHALL NOT EXCEED (3) PERCENT.
- D. CONTRACTOR TO DETERMINE THE LENGTH OF RUN AND THE CONNECTED LOAD FOR EACH BRANCH CIRCUIT. USING THE VOLTAGE DROP SCHEDULES IN THIS DETAIL, THE CONTRACTOR SHALL DETERMINE THE SIZE OF THE BRANCH CIRCUIT CONDUCTOR IS ADEQUATE FOR A VOLTAGE DROP LESS THAN THE MAXIMUM (3) PERCENT. CONTRACTOR TO UP-SIZE THE BRANCH CIRCUIT CONDUCTORS AS NEEDED TO ADJUST FOR VOLTAGE DROP.

1 VOLTAGE DROP SCHEDULE AND NOTE NO SCALE

ELECTRICAL DEMOLITION GENERAL NOTES (WHEN APPLICABLE):

- REFERENCE ARCHITECTURAL DRAWINGS FOR FULL EXTENT OF DEMOLITION WORK AND PHASING. NOTIFY ARCHITECT, ENGINEER AND OWNER, AS APPLICABLE, OF ANY CONFLICTS OR DISCREPANCIES BETWEEN DRAWINGS AND JOB SITE CONDITIONS PRIOR TO SUBMITTING BID.
- COORDINATE DEMOLITION AND REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AND LIGHTING SYSTEMS WITH ARCHITECTURAL PHASING DRAWING AND OWNER TO ALLOW NECESSARY SYSTEMS TO REMAIN OPERATIONAL DURING CONSTRUCTION. (NOTE: NOT ALL EXISTING/DEMOLISHED EQUIPMENT, LIGHT FIXTURES, DEVICES OR RACEWAYS WILL BE SHOWN ON THE DRAWINGS). COORDINATE ELECTRICAL REQUIREMENTS FOR REMODELED/RENOVATED SPACES WITH THE OWNER.
- AVOID DAMAGING FACILITIES, INCLUDING EQUIPMENT, LIGHT FIXTURES AND DEVICES THAT ARE EXISTING TO REMAIN, NEW OR REUSED. REPAIR ALL DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO THE OWNER.
- DISPOSE OF ALL ELECTRICAL EQUIPMENT, LIGHT FIXTURES, AND DEVICES SHOWN TO BE REMOVED, UNLESS NOTED OTHERWISE. COORDINATE WITH THE OWNER THE ITEMS TO BE SALVAGED, AND THE LOCATION FOR STORAGE. AVOID DAMAGING SALVAGED ITEMS DURING DEMOLITION WORK AND DURING TRANSPORT TO OWNER'S DESIGNATED STORAGE LOCATION.
- WHERE ALTERATION OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, RACEWAYS OR WIRING DEVICES AFFECTS EXISTING SURFACES/FINISHES: REPAIR/PAINT AFFECTED SURFACE TO MATCH EXISTING ADJACENT SURFACE IN ACCORDANCE WITH OWNER REQUIREMENTS. MAINTAIN FIRE RATING OF ALL FLOORS/WALLS/CEILING'S THAT ARE RATED.
- WHERE DEMOLITION WORK INTERRUPTS ELECTRICAL CONTINUITY OF CIRCUITS THAT ARE TO REMAIN IN USE, PROVIDE NECESSARY DEVICES AND RELATED CIRCUITRY TO MAINTAIN ELECTRICAL CONTINUITY IN ACCORDANCE WITH OWNER REQUIREMENTS. RE-CIRCUIT REUSED ELECTRICAL EQUIPMENT, LIGHT FIXTURES AND WIRING DEVICES PREVIOUSLY POWERED FROM DEMOLISHED EQUIPMENT TO NEW OR TEMPORARY EQUIPMENT AS NEEDED.
- COORDINATE DISCONNECTION OF POWER TO EQUIPMENT BEING DEMOLISHED/REMOVED/RELOCATED WITH OTHER TRADES PRIOR TO START OF WORK. ALL ELECTRICAL EQUIPMENT, LIGHT FIXTURES, RACEWAYS, WIRING DEVICES AND RELATED CIRCUITRY NOT BEING REUSED SHALL BE REMOVED IN ALL ACCESSIBLE AREAS AND IN FLOORS/WALLS/CEILING'S THAT ARE TO BE REMOVED, UNLESS NOTED OTHERWISE. AS ALLOWED BY OWNER, UNUSED ELECTRICAL EQUIPMENT, RACEWAYS AND RELATED CIRCUITRY THAT ARE INACCESSIBLE MAY BE ABANDONED IN PLACE AND SHALL BE PERMANENTLY DISCONNECTED FROM ALL POWER SOURCES, INSULATED FROM CONTACT WITH OTHER LIVE ELECTRICAL WIRING/DEVICES, AND IDENTIFIED AT THE TERMINATIONS AS NO LONGER BEING IN SERVICE.
- LOW VOLTAGE CABLES/WIRING NOT BEING REUSED SHALL BE REMOVED UNLESS IDENTIFIED FOR FUTURE USE. COORDINATE REQUIREMENTS WITH OWNER. CARE SHOULD BE TAKEN DURING THE REMOVAL PROCESS TO PROTECT THE EXISTING REUSED CABLES/WIRING FROM DAMAGE.

ELECTRICAL GENERAL NOTES :

- EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT ACTUAL "AS-BUILT" CONDITIONS. VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BID. COORDINATE NEW AND DEMOLITION WORK WITH ALL OTHER TRADES AND EXISTING CONDITIONS.
- NOTIFY ARCHITECT, ENGINEER AND OWNER, AS APPLICABLE, IF ANY DANGEROUS CONDITIONS EXIST ON JOB SITE BEFORE ANY DEMOLITION OR REMOVAL WORK BEGINS.
- COORDINATE ANY NECESSARY POWER OUTAGES WITH THE LANDLORD AND OWNER AND MAKE EVERY ATTEMPT TO SCHEDULE DURING NON-BUSINESS OR OFF-PEAK BUSINESS HOURS TO MINIMIZE DISRUPTION TO BUSINESS OPERATIONS. REQUESTS FOR ELECTRICAL SHUTDOWNS OF THE LANDLORD'S EQUIPMENT SHALL BE BROUGHT IN WRITING TO THE ATTENTION OF THE LANDLORD AT LEAST 7 DAYS IN ADVANCE. SHUTDOWNS SHALL NOT BE PERFORMED WITHOUT WRITTEN APPROVAL FROM THE LANDLORD.
- ALL ROOF PENETRATIONS, FLOOR CHASING OR CORE DRILLING SHALL REQUIRE THE SPECIFIC APPROVAL OF THE LANDLORD AND OWNER. ALL WORK IN COMMON AREAS, SHAFTS OR OTHER OWNER SPACES MUST BE SPECIFICALLY REVIEWED AND APPROVED BY THE LANDLORD PRIOR TO ANY WORK BEING PERFORMED. MINIMIZE DISTURBANCE TO OTHER BUILDING TENANTS.
- FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL: EXISTING ELECTRICAL EQUIPMENT AND CIRCUITRY MAY BE REUSED IF IN GOOD CONDITION AND NEW DESIGN REQUIREMENTS CAN BE MET; OTHERWISE REPLACE.
- FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL: REPAIR OR REPLACE ANY EXISTING DAMAGED OR RECALLED ELECTRICAL EQUIPMENT, LIGHT FIXTURES, WIRING DEVICES AND RELATED CIRCUITRY AND RESTORE ALL ELECTRICAL SYSTEMS TO PROPER WORKING ORDER. THE FINAL ELECTRICAL INSTALLATION SHALL BE FREE FROM ELECTRICAL DEFECTS TO THE SATISFACTION OF THE AHJ, OWNER, ARCHITECT AND ENGINEER.
- FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL: VERIFY CONDITION AND AGE OF EXISTING REUSED ELECTRICAL EQUIPMENT, LIGHT FIXTURES, CIRCUIT BREAKERS, FUSES, CONDUIT, SWITCHES AND RELATED WIRING. NOTIFY OWNER OF ANY ELECTRICAL EQUIPMENT, LIGHT FIXTURES AND WIRING AGED BEYOND ITS USEFUL LIFE AND REPLACE AS DIRECTED. THE MAXIMUM EXPECTED USEFUL LIFE SHALL NOT EXCEED THE FOLLOWING: (AS DATED FROM THE POINT OF MANUFACTURE), UNLESS APPROVED BY THE ENGINEER, MANUFACTURER AND OWNER: 20 YEARS FOR CIRCUIT BREAKERS, GENERATOR/UPS SYSTEMS AND LIGHT FIXTURES, 30 YEARS FOR TRANSFORMERS AND PANELBOARDS, 40 YEARS FOR SWITCH-BOARDS AND OTHER ELECTRICAL EQUIPMENT.
- FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL: ELECTRICAL EQUIPMENT SHALL BE LOCATED SO THAT THE CODE REQUIRED MINIMUM WORKING CLEARANCE AND DEDICATED ELECTRICAL SPACE ARE MAINTAINED. EXISTING EQUIPMENT NOT MEETING CURRENT CODE CLEARANCE REQUIREMENTS MAY REMAIN IF ALLOWED TO REMAIN BY THE AHJ, ENGINEER AND OWNER.

ELECTRICAL SUPPLEMENTAL SPECIFICATIONS:

- PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS, AS APPLICABLE. REVIEW THE LANDLORD CRITERIA, GENERAL NOTES, OTHER TRADE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMITTING BID.
- ALL WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES AS WELL AS APPLICABLE INDUSTRY STANDARDS. ALL EQUIPMENT SHALL BEAR LABELS FOR THE USE INTENDED BY AN AHJ ACCEPTED NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL), SUCH AS UL OR ETL. THE FINAL ELECTRICAL INSTALLATION OF THE FACILITY OCCUPIED BY OWNER SHALL BE FREE FROM ELECTRICAL DEFECTS TO THE SATISFACTION OF THE AHJ, OWNER, ARCHITECT AND ENGINEER.
- COORDINATE FINAL LOCATION AND INSTALLATION REQUIREMENTS OF ALL LIGHT FIXTURES, ELECTRICAL EQUIPMENT AND ELECTRICAL DEVICES WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS AND OTHER TRADES PRIOR TO ROUGH-IN. PROVIDE ALL NECESSARY DEVICES, CORDS, PLUGS, DISCONNECTS AND FINAL CONNECTIONS TO ELECTRICAL EQUIPMENT FOR PROPER OPERATION IN ACCORDANCE WITH CODE, OWNER AND MANUFACTURER REQUIREMENTS.
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC/SCHEMATIC IN NATURE AND REPRESENT THE GENERAL SCOPE OF WORK. IT IS NOT WITHIN THE SCOPE OF THE ELECTRICAL DRAWINGS TO SHOW ALL NECESSARY RACEWAY ROUTING, BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF EQUIPMENT AND WIRING DEVICES WITH OTHER TRADES PRIOR TO INSTALLATION AND INSTALL ALL WORK TO CONFORM TO THE OWNER REQUIREMENTS.
- ALL CONDUCTOR AND CONDUIT LENGTHS SHOWN IN THESE DESIGN DOCUMENTS ARE INTENDED SOLELY FOR USE IN THE DESIGN CALCULATIONS BY THE DESIGN PROFESSIONAL, UNLESS NOTED OTHERWISE. LENGTHS SHOWN SHALL NOT BE USED TO ASSIST IN THE BIDDING TAKEOFF PROCESS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MATERIAL QUANTITIES REQUIRED TO BID AND CONSTRUCT THE COMPLETE PROJECT.
- PROVIDE PROPER FIRE PROOFING AND SEALANT FOR PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. THE FIRE STOPPING METHOD, MATERIAL AND ITS APPLICATION SHALL BE NRTL LISTED, CODE COMPLIANT AND APPROVED BY AHJ.
- FOR CAST-IN-PLACE CONCRETE, TILT-UP WALLS, PRECAST OR SIMILAR PRE-ENGINEERED WALL SYSTEMS: COORDINATE THE FINAL LOCATION OF ALL ELECTRICAL DEVICES, RACEWAYS, LIGHT FIXTURES AND PENETRATIONS WITH ARCHITECT, WALL SUPPLIER AND OTHER TRADES PRIOR TO WALL CONSTRUCTION. CONDUIT/RACEWAY IMBEDDED IN CONCRETE WALLS SHALL BE SCHEDULE 80 PVC OR LFMC. OTHER TYPES MAY BE ALLOWED IF APPROVED BY WALL SYSTEM MANUFACTURER AND ENGINEER.
- ALL APPLICABLE SWITCHES, RECEPTACLES, OUTLETS, AND CONTROLS SHALL BE PLACED AT HEIGHTS THAT ARE IN ACCORDANCE WITH ADA ACCESSIBILITY GUIDELINES.
- WIRING DEVICES ADJACENT TO EACH OTHER SHALL BE INSTALLED UNDER A SINGLE COVER PLATE, UNO.
- WIRING DEVICES SHOWN BACK-TO-BACK ON A COMMON WALL SHALL BE OFFSET A MINIMUM OF 12" HORIZONTALLY TO REDUCE SOUND TRANSMISSION BETWEEN ROOMS, UNO.
- ALL WP OUTLET BOX HOODS SHALL BE "EXTRA-DUTY" AND "WHILE-IN-USE COVER" TYPE. OUTLET BOX HOODS SHALL BE LOW PROFILE WHEREVER PRACTICABLE, UNLESS NOTED OTHERWISE. THE USE OF LARGE BUBBLE COVERS SHALL BE AVOIDED ON THE EXTERIOR OF THE BUILDING OR BEHIND EQUIPMENT IN ORDER TO PREVENT DAMAGE TO THE COVER AND TO ALLOW THE EQUIPMENT TO BE LOCATED CLOSE TO THE WALL.
- ALL SINGLE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS INSTALLED IN LOCATIONS REQUIRED BY CODE (THIS INCLUDES BATHROOMS, KITCHENS/FOOD PREP AREAS, GARAGES, EXTERIOR LOCATIONS AND RECEPTACLES WITHIN 6 FEET OF A SINK), SHALL BE PROVIDED GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL PER N.E.C. 210.8 AND INSTALLED IN ACCORDANCE WITH N.E.C. 240.24. ALTERNATIVELY, A GFCI CIRCUIT BREAKER CAN BE INSTALLED GFCI RECEPTACLES SHALL BE INSTALLED IN ACCESSIBLE AND SHALL NOT BE LOCATED BEHIND STATIONARY EQUIPMENT. GFCI PROTECTION MAY BE VIA A GFCI CIRCUIT BREAKER OR GFCI RECEPTACLE, UNLESS NOTED OTHERWISE. WHERE NECESSARY, GFCI PROTECTION MAY BE ACHIEVED VIA A BLANK FACE GFCI DEVICE LOCATED IN A READILY ACCESSIBLE LOCATION NEAR RECEPTACLE BEING PROTECTED. FOR DOWNSTREAM WIRING DEVICES LOCATED ON THE SAME BRANCH CIRCUIT, THE GFCI PROTECTION MAY BE PROVIDED FOR BY A SINGLE UPSTREAM DEVICE IF ALL PROTECTED DEVICES ARE LABELED PER CODE.)
- PROVIDE TAMPER-RESISTANT (TR) TYPE RECEPTACLES AT ALL CODE REQUIRED LOCATIONS AND AT LOCATIONS WHERE RECEPTACLES ARE MOUNTED LESS THAN 5'-6" AFF AND ARE EASILY ACCESSIBLE BY CHILDREN, UNLESS NOTED OTHERWISE.
- FLEXIBLE CONDUIT IS ONLY PERMITTED WHERE SPECIFICALLY ALLOWED IN THE CONSTRUCTION DOCUMENTS, WHERE CONCEALED FROM VIEW OR EXPOSED FINAL CONNECTIONS TO LIGHT FIXTURES AND EQUIPMENT IN LENGTHS OF 6'-0" OR LESS.
- ALL EMPTY CONDUIT/RACEWAY SHALL BE INSTALLED WITH PULL STRINGS. TERMINATE CONDUIT STUB-UP WITH A NYLON BUSHING.
- EXPOSED CONDUIT/RACEWAY SHALL BE PAINTED TO MATCH ADJACENT SURFACE, UNLESS NOTED OTHERWISE. COORDINATE REQUIREMENTS WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.

- CONDUITS/RACEWAYS SHALL BE CONCEALED FROM VIEW WHEREVER PRACTICABLE, UNLESS NOTED OTHERWISE. ROUTE CONDUITS SERVING ROOFTOP EQUIPMENT CONCEALED INSIDE EQUIPMENT CURB AND MINIMIZE ROOF PENETRATIONS AND EXTERIOR CONDUIT RUNS WHERE PRACTICABLE. SUPPORT RACEWAY FROM STRUCTURE, NOT ROOF DECK. MAINTAIN 2" MIN SPACING FROM BOTTOM OF ROOF DECK TO PREVENT ROOFING SCREWS FROM PENETRATING RACEWAY. DO NOT ROUTE CONDUITS ACROSS SKYLIGHTS, ACCESS PANELS, HATCHED TILES, HVAC DIFFUSERS, OR EQUIPMENT WORKING CLEARANCE SPACE. ROUTE ALL EXPOSED NON-FLEXIBLE CONDUITS TIGHT TO STRUCTURE, PARALLEL TO BUILDING LINES AND IN STRUT OR CABLEPIPE TRAY WHERE PRACTICABLE. INSTALL CONDUITS FLUMB/LEVEL WHERE EXPOSED TO VIEW. COORDINATE RACEWAY ROUTING AND INSTALLATION WITH OTHER TRADES PRIOR TO ROUGH-IN.
- WHERE PRACTICABLE, ALL UNDER-FLOOR/UNDER-GROUND CONDUITS/RACEWAY SHALL BE INSTALLED A MINIMUM OF 24" BELOW BOTTOM OF SLAB/PAVING/GRADE, UNLESS NOTED OTHERWISE. NOTE: THE DESIGN INTENT FOR INSTALLING ELECTRICAL CIRCUITRY AT THIS DEPTH IS TO PROTECT THE ELECTRICAL CIRCUITRY FROM DAMAGE DUE TO FUTURE WORK.
- PROVIDE LABEL AT EACH RECEPTACLE COVER PLATE WITH THE RESPECTIVE "NLB0-CKT#" DESIGNATION. COORDINATE LABEL REQUIREMENTS WITH THE OWNER PRIOR TO INSTALLATION. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.
- MULTIWIRE BRANCH CIRCUITS ARE NOT ALLOWED, UNLESS NOTED OTHERWISE.
- PROVIDE INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR ALL CIRCUITS, UNLESS NOTED OTHERWISE.
- IF CONTRACTOR IS RESPONSIBLE FOR INSTALLING UTILITY TRANSFORMER PAD (FOR NEW UTILITY TRANSFORMER) REFER TO SERVING UTILITY'S GREEN BOOK FOR INSTALLATION REQUIREMENTS AND COORDINATE TRANSFORMER INSTALLATION WITH UTILITY COMPANY.

SPECIAL SYSTEMS SUPPLEMENTAL SPECIFICATIONS:

- PROVIDE NECESSARY BOXES, CONDUIT AND MAKE FINAL CONNECTIONS TO TEMPERATURE CONTROL DEVICES PER MANUFACTURER'S RECOMMENDATIONS. THIS INCLUDES BUT IS NOT LIMITED TO: MAIN CONTROL PANELS, THERMOSTATS, HUMIDISTATS, AC SOLENOIDS, HEAT RECLAIM WIRING, AHJ CONTROL WIRING, DUCT FURNACE CONTROL WIRING, TIMERS, AND SIMILAR CONTROLS. PROVIDE CONDUIT FOR ALL WIRING WITHIN WALLS. PROVIDE CONTROL AND INTERLOCK WIRING WHEN NOT PROVIDED BY OTHER TRADES. COORDINATE REQUIREMENTS WITH EQUIPMENT SUPPLIERS AND OTHER TRADES PRIOR TO ROUGH-IN.
- PROVIDE LINE VOLTAGE WIRING AND MAKE FINAL CONNECTIONS TO ALL DUCT-MOUNTED SMOKE DETECTORS, FIRES/SMOKE AND SMOKE DAMPERS WHERE APPLICABLE. COORDINATE REQUIREMENTS WITH OTHER TRADES PRIOR TO INSTALLATION.
- DEVICES MOUNTED ON ACOUSTICAL TILE CEILING'S SHALL BE CENTERED ON THE TILE, UNO.
- PROVIDE BOX AND 3/4" CONDUIT FROM EACH THERMOSTAT LOCATION TO MECHANICAL EQUIPMENT, (FLUSH MOUNT BOX WHEREVER PRACTICABLE), COORDINATE LOCATION OF ALL THERMOSTAT BOXES WITH MECHANICAL/CONTROLS CONTRACTOR AND OWNER PRIOR TO ROUGH-IN.
- PROVIDE BOXES AND CONDUITS FOR THE FIRE PROTECTION SYSTEM LOW VOLTAGE WIRING AS REQUIRED. THIS INCLUDES EXPOSED WIRING LESS THAN 96" AFF. AT A MINIMUM, PROVIDE 3/4" CONDUIT, UNLESS NOTED OTHERWISE. COORDINATE REQUIREMENTS AND LOCATIONS WITH SYSTEM INSTALLER AND FIRE ALARM SPECIFICATIONS.
- AT A MINIMUM, PROVIDE EXTRA DEEP, DOUBLE GANG COMMUNICATION OUTLET BOXES, (FLUSH MOUNTED WHEREVER PRACTICABLE), WITH SINGLE-GANG PLASTER RING AND 1" CONDUIT STUBBED-UP CONCEALED TO ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE. PROVIDE SURFACE MOUNTED DATA BOXES WITHIN CABINETRY, AND SELECT OTHER LOCATIONS AS INDICATED ON THE DRAWINGS. COORDINATE TELEPHONE/DATA BOX AND CONDUIT LOCATIONS AND SIZES WITH OWNER AND OTHER TRADES PRIOR TO ROUGH-IN.
- PROVIDE NYLON BUSHINGS FOR ALL COMMUNICATIONS AND LOW VOLTAGE WIRING CONDUITS AND SLEEVES, UNLESS NOTED OTHERWISE.
- ALL COMMUNICATIONS AND LOW VOLTAGE WIRING CONDUIT SHALL BE INSTALLED WITH AN ACCESSIBLE PULLBOX BETWEEN EVERY 180 DEGREE CHANGE IN DIRECTION AND AT 100' INTERVALS OF CONTINUOUS RUNS.
- MINIMUM BEND RADIUS FOR COMMUNICATIONS CONDUIT IS 6 TIMES THE INSIDE DIAMETER FOR CONDUITS 2" IN DIAMETER AND SMALLER AND 10 TIMES THE INSIDE DIAMETER FOR CONDUITS GREATER THAN 2" IN DIAMETER, UNLESS NOTED OTHERWISE.
- LOW VOLTAGE COMMUNICATION, ENERGY MANAGEMENT, SOUND SYSTEM, SECURITY AND RELATED WIRING IS TO BE PERFORMED BY OTHERS UNDER A SEPARATE CONTRACT, UNLESS NOTED OTHERWISE. PROVIDE BOXES AND CONDUIT IN FINISHED AND RATED FLOORS/WALLS/CEILING'S TO ACCESSIBLE LOCATIONS FOR ALL LOW VOLTAGE WIRING. PROVIDE ALL LINE VOLTAGE CIRCUITRY (120V AND HIGHER) TO OWNER FURNISHED EQUIPMENT AND LOW VOLTAGE STEP-DOWN TRANSFORMERS AS REQUIRED. COORDINATE ELECTRICAL REQUIREMENTS AND LOCATIONS WITH SYSTEM INSTALLER AND OWNER.
- ALL LOW VOLTAGE CLASS 2 OR 3 WIRING NOT IN CONDUIT SHALL BE PLENUM RATED WHERE APPLICABLE.
- LOW VOLTAGE CABLE SHEATH LABELS AND RELATED MANUFACTURER INFO SHALL REMAIN APPARENT IN ALL EXPOSED APPLICATIONS. PROTECT ALL EXPOSED CABLING FROM PAINTING AND OVERSPRAY (INCLUDES CABLE NOT ROUTED IN CONDUIT AND THAT IS IN CABLE TRAY).
- CABLES SHALL BE ROUTED THROUGH THE BUILDING CABLE TRAY/RACEWAY SYSTEM, UNLESS NOTED OTHERWISE. EXPOSED CABLING SHALL NOT BE ROUTED IN AREAS EXPOSED TO STRUCTURE UNLESS SPECIFICALLY PERMITTED BY THE OWNER. IN AREAS WHERE EXPOSED CABLES ARE ALLOWED, IT SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER IN ACCORDANCE WITH THE OWNER'S REQUIREMENTS. WHERE REQUIRED, PROVIDE CONDUIT TO ROUTE LOW VOLTAGE CABLING TO THE CABLE TRAY OR NEAREST ACCESSIBLE CEILING SPACE.
- CONDUITS FOR COMMUNICATIONS OUTLETS SERVING ELEVATOR EQUIPMENT ROOMS, FACP, AND SIMILAR CRITICAL EQUIPMENT AS DESIGNATED BY THE OWNER SHALL BE CONTINUOUS ("HOMERUN") FROM OUTLET TO SERVING COMMUNICATIONS ROOM.

SHEET INDEX

SHEET	DESCRIPTION
E0.1	ELECTRICAL GENERAL NOTES
E0.2	ELECTRICAL SYMBOLS AND ABBREVIATIONS
E0.3	ELECTRICAL SPECIFICATIONS
E1.1	ELECTRICAL SITE PLAN
E2.1	BOXABL ELECTRICAL POWER PLAN (FOR REFERENCE)
E3.1	ELECTRICAL SINGLE LINE AND PANEL SCHEDULE

APPLICABLE ELECTRICAL CODES:

NOTE: PROJECT IS DESIGNED IN COMPLIANCE WITH THE FOLLOWING CODES. THIS IS NOT AN EXHAUSTIVE LIST. PROJECT SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS AND LOCAL REQUIREMENTS.

2015 INTERNATIONAL BUILDING CODE (IBC)
2014 INTERNATIONAL ELECTRIC CODE (IEC)
2015 INTERNATIONAL RESIDENTIAL CODE (IRC)



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MECHANICAL | ELECTRICAL | PLUMBING



Sage Memorial Hospital
NAVAJO HEALTH FOUNDATION

NHF - SAGE MEMORIAL HOSPITAL INC.
SP 264 & CEDAR HILLS ROAD
GANADO AZ 86505

PROJECT LOCATION

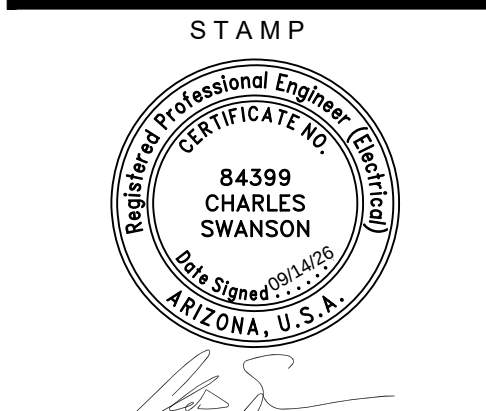
SAGE TINY HOME & RV PARK

15 UNIT - ELECTRICAL SERVICE
SAGE MEMORIAL HOSPITAL
GANADO AZ 86505

SHEET TITLE

ELECTRICAL GENERAL NOTES

STAMP



DATE SIGNED:
SHEETS BEARING THIS SEAL AND MY SIGNATURE
ARE AUTHENTICATED. RESPONSIBILITY FOR ALL
OLDER PLANS, SPECIFICATIONS OR INSTRUMENTS
ARE DISCLAIMED.

REVISIONS

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DATE
2026/09/11

PROJECT NUMBER
26-095

SHEET NUMBER

E0.1

Plotted: 9/14/2026 8:43 AM (XXX) File: tiny home sage memorial gamada az_electrical set.dwg

ELECTRICAL SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

STANDARD MOUNTING HEIGHTS

AUDIBLE APPLIANCES (CENTERLINE)	84"
ALARMS	48"
ANNUNCIATOR PANELS (DISPLAY)	60"
CONTROLS (TOP OF DEVICE)	48"
EXIT SIGNS (WALL MOUNTED)	80"
FIRE ALARM ANNUNCIATOR PANEL (DISPLAY)	60"
FIRE ALARM BELL (EXTERIOR) (CENTERLINE)	120"
FIRE ALARM CONTROL PANEL/UNIT (DISPLAY)	60"
INTERCOM (AREA ONLY)	30"
INTERCOMS (TOP OF DEVICE)	48"
PULL STATIONS (TOP OF DEVICE)	48"
PHOTOCELLS	144"
RECEPTACLES	16"
RECEPTACLES (EXTERIOR)	24"
RECEPTACLES (GARAGES)	24"
RECEPTACLES (POOLS)	27"
RECEPTACLES (ABOVE COUNTER)	+6" ABOVE BACKSPLASH/COUNTER, 40" MAX
RECEPTACLES IN EQUIPMENT ROOMS	44"
REMOTE INDICATING LIGHT (EQUIPMENT ROOMS)	48"
REMOTE INDICATING LIGHT (FINISHED AREAS)	CEILING
SAFETY SWITCHES (TOP OF DEVICE)	48"
STARTERS (TOP OF DEVICE)	48"
SWITCHES (TOP OF DEVICE)	44"
TELEPHONE, DATA OUTLETS	SAME AS ADJACENT DEVICE, UNO
TELEPHONE TERMINAL BOARD (BOTTOM)	REFER TO ARCH DRAWINGS
TELEVISION OUTLETS	84"
VISIBLE APPLIANCES (CENTERLINE)	84"

INSTALL OUTLET BOXES AT THE MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ABOVE, OR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS, ARE AFF OR AFG TO BOTTOM OF OUTLET BOX. UNO, ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.

ABBREVIATIONS

AF	AMPERE FUSE SIZE	MFR	MANUFACTURER
AFC	ABOVE FINISHED CEILING	MIN	MINIMUM
AFF	ABOVE FINISHED FLOOR	MLO	MAIN LUGS ONLY
AFG	ABOVE FINISHED GRADE	MV	MAGNETIC LOW-VOLTAGE
AHJ	AUTHORITY HAVING JURISDICTION	MOCP	MAXIMUM OVERCURRENT PROTECTION
AHU	AIR HANDLING UNIT	MTD	MOUNTED
AIC	AMPERE INTERRUPTING CAPACITY	NF	NOT APPLICABLE
AS	AMPERE SWITCH SIZE	NL	NIGHT LIGHT (24HR ON)
AT	AMPERE TRIP SETTING	NRTL	NATIONALLY RECOGNIZED TESTING LABORATORY (CSA, ETL, NSF, UL)
ATS	AUTOMATIC TRANSFER SWITCH	NTS	NOT TO SCALE
BAS	BUILDING AUTOMATION SYSTEM	OC	OCCUPANCY SENSOR
BKR	BREAKER	P	POLE
C	CONDUIT	PART	PARTIAL CIRCUIT
CAT	CATEGORY	PH0	PHASE
CATV	CABLE TELEVISION SYSTEM	PNL	PANEL
CCTV	CLOSED CIRCUIT TELEVISION	PNBD	PANELBOARD
CD	CANDELA	PROVIDE	FURNISH AND INSTALL
CKT	CIRCUIT	PT	POTENTIAL TRANSFORMER
CODE	APPLICABLE CODE ADOPTED BY JURISDICTION	QTY	QUANTITY
CT	CURRENT TRANSFORMER	R/REL	RELOCATE
CTC	CENTER	RCPT	RECEPTACLE
CVD	CUMULATIVE VOLTAGE DROP	RLA	RUNNING LOAD AMPS
D/DEMO	DEMOLITION	RTU	ROOFTOP UNIT
DPDT	DOUBLE-POLE, DOUBLE-THROW	SCCR	SHORT-CIRCUIT CURRENT RATING
DPST	DOUBLE-POLE, SINGLE-THROW	SD	SMOKE DUCT DETECTOR
E/ET/REX	EXISTING TO REMAIN	SPDT	SINGLE-POLE, SINGLE-THROW
EC	ELECTRICAL CONTRACTOR	SPST	SINGLE-POLE, SINGLE-THROW
EF	EXHAUST FAN	SSBJ	SUPPLY-SIDE BONDING JUMPER
EM	EMERGENCY	ST	SHUNT TRIP
EMS	ENERGY MANAGEMENT SYSTEM	SWBD	SWITCHBOARD
ELV	ELECTRONIC LOW-VOLTAGE	SWGR	SWITCHGEAR
EWC	ELECTRIC WATER COOLER	TB	TELECOMMUNICATIONS BONDING BACKBONE
FAAP	FIRE ALARM ANNUNCIATOR PANEL	TGB	TO BE DETERMINED TELECOMMUNICATIONS
FACP	FIRE ALARM CONTROL PANEL	TL	TELECOMMUNICATIONS MAIN
FCA	FAULT CURRENT AMPS AVAILABLE	TMGB	TELECOMMUNICATIONS MAIN
FCU	FAN COIL UNIT	TX/FMR	TRANSFORMER
FF	FINISHED FLOOR	TYP	TYPICAL
FLA	FULL LOAD AMPS	U/F	UNDERFLOOR
FLR	FLOOR	UG	UNDERGROUND
GC	GENERAL CONTRACTOR	UIS	UNDERSLAB
GEC	GROUNDING ELECTRODE CONDUCTOR	UH	UNIT HEATER
GES	GROUNDING ELECTRODE SYSTEM	UNO	UNLESS NOTED OTHERWISE
GFR	GROUND FAULT RELAY	UPS	UNINTERRUPTIBLE POWER SUPPLY
G	GROUND	VD	VOLTAGE DROP
IG	ISOLATED GROUND	VFD	VARIABLE FREQUENCY DRIVE
ISC	SHORT CIRCUIT CURRENT	VS	VACUANCY SENSOR
JB/J-BOX	JUNCTION BOX	W	WIRE
LF	LINEAR FEET	WI	WITH
LRA	LOCKED ROTOR AMPS	WP	WEATHER PROOF
LT/LTLS	LIGHTING/LIGHTS	WR	WEATHER RESISTANT
MAU	MAKE-UP AIR UNIT	WT	WATERTIGHT
MAX	MAXIMUM	XP	EXPLOSION-PROOF
MCA	MINIMUM CIRCUIT AMPACITY		
MCB	MAIN CIRCUIT BREAKER		
MCC	MOTOR CONTROL CENTER		

LINETYPE LEGEND

THROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.

EXISTING	NEW
DEMOLISH	FUTURE

ANNOTATION

	MECHANICAL OR FIRE PROTECTION PLAN NOTE CALLOUT
	PLUMBING PLAN NOTE CALLOUT
	ELECTRICAL OR FIRE ALARM PLAN NOTE CALLOUT
	TECHNOLOGY PLAN CALLOUT
	PLUMBING EQUIPMENT DESIGNATION. (CONTRACTOR FURNISHED AND INSTALLED). REFER TO PLUMBING FIXTURE OR EQUIPMENT SCHEDULES
	EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED).
	MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)
	CONNECTION POINT OF NEW WORK TO EXISTING
	DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
	SECTION CUT DESIGNATION

CIRCUITING & WIRING

	HOMERUN TO PANELBOARD. INFORMATION AT ARROWS ARE CIRCUIT NUMBERS AND PANELBOARD FOR TERMINATION. REFER TO PANELBOARD SCHEDULES FOR BRANCH CIRCUIT CONDUCTOR SIZES.
	INDICATES RELAY NUMBER
	CIRCUIT CONTINUATION OR PARTIAL CIRCUIT
	CONDUIT CONCEALED
	CONDUIT CONCEALED (EMERGENCY)
	CONDUIT IN UNDER FLOOR/GROUND CONSTRUCTION
	EXPOSED CONDUIT
	EXPOSED CONDUIT (EMERGENCY)
	FLEXIBLE CONDUIT
	LOW VOLTAGE CABLE (NOT ROUTED IN CONDUIT)
	CONDUIT TURNING DOWN
	CONDUIT TURNING UP
	CONNECTION POINT OR EQUIPMENT TERMINATION
	EQUIPMENT TERMINATION

CONDUCTOR TICK MARK LEGEND

WHERE TICK MARKS ARE SHOWN, THE FOLLOWING SHALL GOVERN:	
	SWITCHED HOT (PHASE) CONDUCTORS (SHOWN TRAILING NEUTRAL)
	NEUTRAL (GROUNDED) CONDUCTOR
	UNSWITCHED HOT (PHASE) CONDUCTORS (SHOWN LEADING NEUTRAL)
	NOTE: HASH MARKS INDICATE QUANTITY OF CONDUCTORS
	EQUIPMENT GROUNDING CONDUCTOR IN CONDUIT (GREEN INSULATION OR BARE)
	ISOLATED GROUNDING CONDUCTOR IN CONDUIT (GREEN INSULATION WITH YELLOW TRACER)

BRANCH CIRCUIT CONDUCTOR TABLE

WHERE TICK MARKS ARE NOT SHOWN, THE FOLLOWING SHALL GOVERN:			
# OF POLES	HOT (PHASE)*	NEUTRAL (GROUNDED)**	GROUNDING***
1P	(1)	(1) UNO	(1)
2P	(2)	(1) UNO	(1)
3P	(3)	(1) UNO	(1)

* PROVIDE ADDITIONAL CONDUCTORS THROUGH ENTIRE CIRCUIT (SWITCHED, UNSWITCHED/DEM, ETC.) AS INDICATED THROUGHOUT CONSTRUCTION DOCUMENTS AND AS REQUIRED FOR A COMPLETE AND WORKING SYSTEM.

** REFER TO SPECIFICATIONS FOR LIMITATIONS ON SHARING NEUTRAL (GROUNDED) CONDUCTORS. DO NOT CIRCUIT AS A MULTI-WIRE BRANCH CIRCUIT, UNO.

*** PROVIDE ADDITIONAL ISOLATED GROUNDING CONDUCTORS WHERE INDICATED.

REFER TO SPECIFICATIONS, PLANS, NOTES, WIRING AND CONTROL DIAGRAMS FOR ADDITIONAL CIRCUITING REQUIREMENTS.

LIGHTING

	LIGHT FIXTURE
	= LOWER CASE LETTER IS SWITCH IDENTIFIER
	= UPPER CASE LETTER INDICATES LIGHT FIXTURE TYPE
	= WALL MOUNT
	= ARROW INDICATES AIMING DIRECTION
	LIGHT FIXTURE CIRCUITED AS A NIGHT LIGHT (NL)
	EMERGENCY LIGHT FIXTURE WITH EMERGENCY LIGHTING BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE
	NIGHT LIGHT EMERGENCY LIGHT FIXTURE WITH EMERGENCY BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE
	LIGHT FIXTURE WITH DUAL BALLASTS CIRCUITED SEPARATELY (SHADING IMPLIES EMERGENCY LIGHT FIXTURE)
	LIGHTING TRACK (# INDICATES RELAY NUMBER)
	MIRROR LIGHTS
	EXTERIOR PARKING LOT LIGHT FIXTURE
	EXTERIOR PEDESTRIAN POST TOP LIGHT FIXTURE
	EXTERIOR LIT BOLLARD LIGHT FIXTURE
	EXIT SIGN - CEILING / WALL MOUNTED, ARROWS AS INDICATED, FACE HATCHED
	EMERGENCY LIGHTING UNIT EQUIPMENT WITH BATTERY PACK - CEILING/WALL MOUNTED
	AFEA (AREA FOR EVACUATION ASSISTANCE) SIGN - CEILING/WALL MOUNTED, ARROWS AS INDICATED

REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION.

POWER EQUIPMENT

	ELECTRICAL PANELBOARD (SURFACE OR FLUSH MOUNT)
	ELECTRICAL CABINET (SURFACE OR FLUSH MOUNT), TYPE AS NOTED
	PLYWOOD TERMINAL BOARD FOR TELEPHONE SYSTEM, UNO, SIZE AS NOTED
	SWITCHBOARD OR MOTOR CONTROL CENTER ON HOUSEKEEPING PAD
	ELECTRICAL DISTRIBUTION PANELBOARD
	TRANSFORMER
	DISCONNECT SWITCH - "2003/150/3R*" DENOTES AMPERES/POLE/FUSE/NEMA ENCLOSURE RATING, NF= NON-FUSED, CB= CIRCUIT BREAKER (200/0/CB), NO VALUE (2003/150) FOR NEMA ENCLOSURE MEANS STANDARD NEMA 1 RATING
	COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER "303/151/3R*" DENOTES AMPERES/POLE/FUSE/NEMA STARTER SIZE/NEMA ENCLOSURE RATING, NF= NON-FUSED, CB= CIRCUIT BREAKER (303/CB/1), NO VALUE (2003/150/1) FOR NEMA ENCLOSURE MEANS STANDARD NEMA 1 ENCLOSURE RATING
	MAGNETIC MOTOR STARTER, NEMA SIZE AS NOTED, 3-POLE, UNO
	VARIABLE FREQUENCY DRIVE
	INDICATING LIGHT
	EMERGENCY POWER OFF BUTTON
	STOP-START PUSH BUTTON CONTROL STATION
	HAND-OFF-AUTO PUSH BUTTON CONTROL STATION
	MUSHROOM-TYPE PUSH BUTTON
	OVERHEAD PADDLE FAN

BOXES, LIGHTING CONTROL & WIRING DEVICES

	SWTCH LETTER DESIGNATIONS AS FOLLOWS: BLANK = SINGLE POLE 2 = TWO POLE 3 = THREE-WAY 4 = FOUR-WAY D = DIMMER F = FAN SPEED CONTROL FH = FRACTIONAL HORSEPOWER MANUAL CONTROLLER IH = INTEGRAL HORSEPOWER MANUAL CONTROLLER K = KEYS LVW = LOW VOLTAGE / DIGITAL M = MANUAL MOTOR STARTER DISCONNECT OS# = OCCUPANCY SENSOR WP = WEATHER PROOF # OS#MV, P2, P3RL, P4, P4S OR P4RL = REFER TO LIGHTING CONTROL DEVICE SCHEDULE VCE = VACANCY SENSOR
	AUTOMATIC LOAD CONTROL RELAY
	BRANCH CIRCUIT TRANSFER SWITCH
	CONTACTOR (SIZE, COIL VOLTAGE AND NUMBER OF POLES AS INDICATED)
	TRACK-MOUNTED CURRENT LIMITER (## INDICATES AMPERAGE) PHOTOELECTRIC SWITCH
	TIME SWITCH
	LIGHTING CONTROLS PROCESSOR AND/OR EQUIPMENT
	VIVE HUB (SEE VIVE HUB DEVICE SCHEDULE FOR HUB TYPE & LIGHTING CONTROL DEVICE SCHEDULE FOR MODEL INFORMATION)
	POWER PACK (SEE LIGHTING CONTROL SCHEDULE FOR POWPAK SELECTION & LIGHTING CONTROL DEVICE SCHEDULE FOR MODEL INFORMATION)
	DAYLIGHT SENSOR (SEE LIGHTING CONTROL DEVICE SCHEDULE FOR MODEL INFORMATION)
	CEILING MOUNTED OCCUPANCY SENSOR (SEE LIGHTING CONTROL DEVICE SCHEDULE FOR MODEL INFORMATION)
	SIMPLEX RECEPTACLE - NEMA 5-20R, UNO
	DUPLEX RECEPTACLE - NEMA 5-20R, UNO
	DOUBLE DUPLEX RECEPTACLE - NEMA 5-20R, UNO
	SPECIAL RECEPTACLE - NEMA TYPE AS NOTED
	TWIST-LOCK TYPE RECEPTACLE
	BLANK FACE GFCI FEED THROUGH DEVICE
	GFCI TYPE RECEPTACLE*
	ISOLATED GROUND TYPE RECEPTACLE*
	EMERGENCY RECEPTACLE*
	RECEPTACLE INSTALLED ABOVE COUNTER OR BACKSPLASH*
	RECEPTACLE INSTALLED IN CEILING*
	RECEPTACLE INSTALLED IN FLOOR*
	RECEPTACLE INSTALLED VIA DROP CORD*
	ADDITIONAL RECEPTACLE LETTER DESIGNATIONS AS FOLLOWS: C = AUTOMATICALLY CONTROLLED CH = CLOCK HANGER TYPE G = RPT PROTECTED BY GFCI CIRCUIT BREAKER OR UPSTREAM GFCI DEVICE H = HORIZONTALLY MOUNTED S = MANUALLY SWITCHED SP / TVSS = SURGE PROTECTION TR = TAMPER RESISTANT TV = TELEVISION USB = USB/DUPLEX WP = WEATHER PROOF COVER WR = WEATHER RESISTANT
	MULTI-OUTLET ASSEMBLY
	TELEPHONE OUTLET
	DATA OUTLET
	MULTI-SERVICE OUTLET; TELEPHONE AND DATA
	MULTI-SERVICE POWER POLE WITH TELEPHONE, DATA AND POWER OUTLETS A = TYPE, REFER TO PLANS, SCHEDULES AND SPECIFICATIONS
	MULTI-SERVICE FLOOR BOX WITH TELEPHONE, DATA AND POWER OUTLETS A = TYPE, REFER TO PLANS, SCHEDULES AND SPECIFICATIONS
	POKE THROUGH, A = TYPE, REFER TO PLANS, SCHEDULES AND SPECIFICATIONS
	THERMOSTAT
	JUNCTION/OUTLET BOX
	SPEAKER
	WIRELESS ACCESS POINT

* SYMBOL DEMONSTRATED WITH DUPLEX RECEPTACLE, WHEN USED IN COMBINATION WITH OTHER DEVICES MEANING IS SIMILAR FOR THOSE DEVICE TYPES. REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR MORE INFORMATION.

ELECTRICAL ONE-LINE & RISER DIAGRAM

	SWITCH (RATING AS INDICATED)
	DRAWOUT CIRCUIT BREAKER (RATINGS AS INDICATED)
	FUSED SWITCH (RATING, POLES AND FUSE TYPE AS INDICATED)
	COMBINATION FUSED SWITCH/STARTER AND STARTER SIZE
	CIRCUIT BREAKER (RATINGS AS INDICATED)
	COMBINATION CIRCUIT BREAKER/STARTER AND STARTER SIZE
	PANELBOARD, SINGLE OR MULTI-SECTION (REFER TO SCHEDULES)
	ISOLATED POWER PANELBOARD W/ INTEGRAL TRANSFORMER (REFER TO SCHEDULES)
	TRANSFORMER (TYPE AND RATINGS AS INDICATED)
	SHIELDED TRANSFORMER (TYPE AND RATINGS AS INDICATED)
	AUTOMATIC TRANSFER SWITCH (RATINGS AS INDICATED)
	AUTOMATIC TRANSFER SWITCH WITH BYPASS (RATINGS AS INDICATED)
	GENERATOR (RATINGS AS INDICATED)
	NON-SEPARATELY DERIVED SOURCE OR SEPARATELY DERIVED SOURCE
	SWITCHGEAR, SWITCHBOARD AND/OR DISTRIBUTION PANELBOARD (TYPE, RATING, DEVICES AND ACCESSORIES AS INDICATED)
	COMBINATION DIGITAL VOLT METER/AMMETER
	CIRCUIT IDENTIFICATION (REFER TO CIRCUIT SCHEDULE)
	GROUND FAULT RELAY
	PHASE FAILURE RELAY
	KIRK-KEY INTERLOCK (# INDICATES KEY PAIR)
	SHUNT TRIP
	AMMETER (RANGE AS SPECIFIED OR REQUIRED)
	VOLTMETER (RANGE AS SPECIFIED OR REQUIRED)
	UTILITY METER (AS REQUIRED BY UTILITY)
	AMMETER SWITCH
	VOLTMETER SWITCH
	WATT-HOUR METER, "D" DENOTES DEMAND REGISTER, "15" DENOTES MINUTES OF DEMAND INTERVAL
	CURRENT TRANSFORMER RATING AS SPECIFIED OR REQUIRED
	POTENTIAL TRANSFORMER RATING AS SPECIFIED OR REQUIRED
	SURGE-PROTECTIVE DEVICE
	GROUND CONNECTION
	GROUND CONNECTION WITH TEST WELL
	GROUND ROD
	LIGHTNING ARRESTER
	CAPACITOR
	CONTACT (OPEN OR CLOSED)
	HEATER
	MOTOR
	BLOCK LOAD KW OR KVA
	FAULT POINT REFERENCED IN SHORT CIRCUIT CURRENT AND VOLTAGE DROP SPREADSHEET

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DESIGN
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MECHANICAL | ELECTRICAL | PLUMBING

Sage Memorial Hospital
NAVAJO HEALTH FOUNDATION

NHF - SAGE MEMORIAL HOSPITAL INC.
SR 264 & CEDAR HILLS ROAD
GANADO AZ 86505

SAGE TINY HOME & RV PARK

15 UNIT - ELECTRICAL SERVICE
SAGE MEMORIAL HOSPITAL
GANADO AZ 86505

ELECTRICAL SYMBOLS, LEGENDS AND ABBREVIATIONS

STAMP

84399
CHARLES
SWANSON
Professional Engineer
Arizona, U.S.A.

DATE SIGNED:
SHEETS BEARING THIS SEAL AND MY SIGNATURE
ARE AUTHENTICATED. RESPONSIBILITY FOR ALL
OLDER PLANS, SPECIFICATIONS OR INSTRUMENTS
ARE DISCLAIMED.

REVISIONS

DATE
2026/09/11
PROJECT NUMBER
26-095

SHEET NUMBER

E0.2

Plotted: 9/14/2026 8:43 AM (XXX) File: tiny home sage memorial ganado az, electrical set.dwg

ELECTRICAL - SPECIFICATIONS (AS APPLICABLE)	
PART I - GENERAL	PART II - PRODUCTS & EXECUTION
1. CONDITIONS 1.1. FURNISH & INSTALL A COMPLETELY WIRED & OPERATIONAL ELECTRICAL SYSTEM AS SHOWN & SPECIFIED ON THE DRAWINGS HEREIN, INCLUDING BUT NOT LIMITED TO, THESE ITEMS: 1.1.1. LIGHTING FIXTURES AS INDICATED & SPECIFIED ON THE PLANS. 1.1.2. ELECTRICAL PANELS, SERVICING, CONDUITS, WIRING, ETC. FOR ALL OUTLETS & EQUIPMENT. 1.1.3. TELEPHONE OUTLETS & CONDUITS AS INDICATED. 2. RELATED WORK BY OTHERS 2.1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, TRENCH, & BACKFILL FOR A ELECTRICAL SERVICE ENTRANCE FROM THE MAIN SERVICE TO THE UTILITY POINT OF ELECTRICAL SERVICE. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ENTRANCE w/ THE SERVING UTILITY COMPANY. 2.2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, TRENCH, & BACKFILL FOR PRIMARY PHONE & CATV SERVICE FROM THE TELEPHONE TERMINAL BOARD OR CABINET TO THE PHONE COMPANY & CATV COMPANY POINT OF SERVICE. 3. CODES, REGULATIONS AND STANDARDS 3.1. THE INSTALLATION SHALL COMPLY w/ APPLICABLE LOCAL & STATE CODES, ORDINANCES, & THE REGULATIONS OF THE CURRENTLY ACCEPTED EDITION OF THE N.E.C., IT SHALL ALSO COMPLY w/ THE POWER, TELEPHONE, & CATV COMPANY FURNISHINGS REQUIREMENTS FOR THE INSTALLATION. 3.2. THE FOLLOWING INDUSTRY STANDARDS, SPECIFICATIONS, & CODES ARE MIN. REQUIREMENTS: 3.2.1. THE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION STANDARDS. 3.2.2. THE NATIONAL ELECTRICAL CODE, INCLUDING LOCAL AMENDMENTS. 3.2.3. U.L.'s INCORPORATED STANDARDS. 3.2.4. AMERICAN NATIONAL STANDARDS INSTITUTE. 4. INSPECTION OF SITE 4.1. PRIOR TO SUBMITTING A BID FOR ELECTRICAL WORK, THE CONTRACTOR SHALL VISIT THE PROPOSED SITE OF CONSTRUCTION & SHALL THOROUGHLY ACQUAINT HIMSELF (HERSELF) w/ EXISTING UTILITIES, & WORKING CONDITIONS TO BE ENCOUNTERED, ETC. ALLOWANCE WILL NOT BE MADE FOR NONCOMPLIANCE w/ THIS CONDITION AFTER BIDDING. 4.2. ELECTRICAL INSTALLATION SHALL MEET THE EXISTING CONDITIONS. 5. STORAGE AND HANDLING OF MATERIAL 5.1. DELIVER MATERIALS & EQUIPMENT TO THE PROJECT IN THE MANUFACTURER'S ORIGINAL, UNOPENED, LABELED CONTAINERS. PROTECT AGAINST MOISTURE, TAMPERING, OR DAMAGE FROM IMPROPER HANDLING & STORAGE. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO WORK OR MATERIALS UNTIL FINAL ACCEPTANCE BY THE OWNER, & SHALL MAKE GOOD w/o COST TO THE OWNER, ANY DAMAGE OR LOSS THAT MAY OCCUR DURING THIS PERIOD. 5.2. ARRANGE FOR TIMELY DELIVERY OF MATERIALS & EQUIPMENT TO THE JOB SITE IN ORDER TO MINIMIZE THE LENGTH OF TIME BETWEEN DELIVERY & INSTALLATION. 5.3. COVER & PROTECT ANY MATERIAL THAT MAY BE AFFECTED BY WEATHER WHILE IN TRANSIT OR STORED AT THE PROJECT SITE. ANY MATERIAL FOUND DEFECTIVE OR NOT INSTALLED IN ACCORDANCE w/ THE CONSTRUCTION DOCUMENTS MAY BE REJECTED BY THE ENGINEER. 6. CLEANUP 6.1. KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS, OR RUBBISH CAUSED BY EMPLOYEES OR WORK UNDER THIS DIVISION OF THE SPECIFICATIONS. AT THE COMPLETION OF THE WORK REMOVE ALL SURPLUS MATERIALS, TOOLS, ETC., & LEAVE THE PREMISES BROOM-CLEAN. 7. EXCAVATION 7.1. PERFORM ALL EXCAVATION & BACK FILLING REQUIRED FOR WORK PERFORMED UNDER THIS DIVISION OF THE SPECIFICATIONS. USE EXCAVATED MATERIALS FOR BACKFILL UNLESS OFF SITE MATERIALS ARE DEEMED NECESSARY. 8. DRAWINGS 8.1. THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT & LOCATIONS OF THE ELECTRICAL WORK. DATA PRESENTED ON THESE DRAWINGS ARE AS ACCURATE AS PLANNING CAN DETERMINE, BUT FIELD VERIFICATION OF ALL DIMENSIONS, LOCATIONS, LEVELS, ETC., TO SUIT FIELD CONDITIONS IS REQUIRED. REVIEW ALL ARCHITECTURAL, STRUCTURAL, & MECHANICAL DRAWINGS & ADJUST ALL WORK TO MEET THE REQUIREMENTS OF CONDITIONS SHOWN. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. DISCREPANCIES BETWEEN DIFFERENT PLANS, OR BETWEEN DRAWINGS & SPECIFICATIONS, OR REGULATIONS & CODES GOVERNING THE INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING BEFORE THE DATE OF BID OPENING. IF DISCREPANCIES ARE NOT REPORTED, THE CONTRACTOR SHALL BID THE GREATER QUANTITY OR BETTER QUALITY, & APPROPRIATE ADJUSTMENTS WILL BE MADE AFTER CONTRACT AWARD. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD MEASURE & CONFIRM MOUNTING HEIGHTS & LOCATION OF ELECTRICAL EQUIPMENT w/ RESPECT TO COUNTERS, RADIATION, ETC. DO NOT SCALE DISTANCES OFF THE ELECTRICAL DRAWINGS, USE ACTUAL BUILDING DIMENSIONS. 9. EXCAVATION, CUTTING & FITTING 9.1. PERFORM THE EXCAVATION, CUTTING, FITTING, REPAIRING, & FINISHING OF THE WORK NECESSARY FOR THE INSTALLATION OF THE EQUIPMENT OF THIS SECTION. HOWEVER, NO CUTTING OF THE WORK OF OTHER TRADES OR OF ANY STRUCTURAL MEMBERS SHALL BE DONE w/o THE CONSENT OF THE ARCHITECT. 10. COOPERATION w. OTHER CONTRACTORS 10.1. COOPERATE w/ THE OTHER TRADES SO THAT THE INSTALLATION OF THE ELECTRICAL OUTLETS & EQUIPMENT WILL BE PROPERLY COORDINATED TO AVOID CONFLICT w/ THE PIPING, DUCTWORK, STEEL, BEAMS, OR OTHER OBSTRUCTIONS. CAREFULLY CHECK LOCATIONS OF OUTLET BOXES & DETERMINE THAT THEY HAVE NOT BEEN DISTURBED DURING THE INSTALLATION OF OTHER TRADE MATERIALS. 10.2. COORDINATE THE LOCATION OF THE TRENCHES & CONDUITS FOR ELECTRICAL & TELEPHONE UTILITY SERVICES w/ THE GENERAL CONTRACTOR. 10.3. COORDINATE HVAC EQUIPMENT CONNECTION REQUIREMENTS w/ HVAC CONTRACTOR.	1. MATERIALS 1.1. ALL MATERIALS SHALL BE NEW & OF THE QUALITY SPECIFIED ON THE PLANS OR SPECIFICATIONS & MUST CARRY THE U.L.'s APPROVAL COVERING THE PURPOSE FOR WHICH THEY ARE USED & MEET ALL REQUIREMENTS OF CURRENT APPLICABLE CODES & REGULATIONS. 2. CONDUIT 2.1. ALL WIRING SHALL BE INSTALLED IN LISTED METALLIC CONDUIT EXCEPT AS PERMITTED BELOW: 2.1.1. GALVANIZED RIGID STEEL CONDUIT, w/ A 20 MIL PVC COATING WILL BE USED WHEN IN CONTACT w/ EARTH. 2.1.2. INTERMEDIATE METAL CONDUIT MAY BE USED IN INDOOR LOCATIONS NOT IN CONTACT w/ THE EARTH. 2.1.3. ELECTRICAL METALLIC TUBING MAY BE USED IN INDOOR LOCATIONS NOT IN CONTACT w/ EARTH, NOT IN CONCRETE SLABS OR WALLS & NOT SUBJECT TO DAMAGE. 2.1.4. PVC MAY BE USED IN OR BELOW CONCRETE & DIRECTLY BURIED IN EARTH. 2.1.5. FLEXIBLE STEEL CONDUIT SHALL BE USED FOR INDOOR FINAL CONNECTIONS TO EQUIPMENT IN LENGTHS NOT TO EXCEED 72". 2.1.6. LIQUID-TIGHT FLEXIBLE STEEL CONDUIT SHALL BE FOR OUTDOOR FINAL CONNECTIONS TO EQUIPMENT NOT TO EXCEED 36". 2.2. WHERE CONDUITS ENTER OUTLET BOXES, FIXTURES OR CABINETS, FIRMLY FASTEN w/ STEEL SET SCREW, COMPRESSION CONNECTORS, OR DOUBLE LOCKNUTS FOR GALVANIZED RIGID CONDUIT. ALL CONNECTIONS SHALL HAVE BUSHINGS OR INSULATED THROAT CONNECTORS. FIRMLY FASTEN CONDUIT TO THE BUILDING CONSTRUCTION. RUN EXPOSED CONDUIT PARALLEL TO THE BUILDING LINES, SUPPORTED BY APPROPRIATE HANGERS (UNISTRUT, T & B, APPLETON, OR EQUAL). 2.3. COVER METALLIC CONDUIT CONTACTING THE EARTH w/ POLYETHYLENE TAPED SPIRAL WRAPPED, 1/2 LAPPED TO PROVIDE 20 MIL THICKNESS. TAPE SHALL BE SCOTCH NO. 50 TAPE. CONDUITS & DUCTS NOT UNDER BUILDINGS & FEEDER DUCTS SHALL COMPLY w/ N.E.C. 300-5. MAKE JOINTS w/ COMPOUND WATERTIGHT. 2.4. FITTINGS & CONDUIT BODIES SHALL BE STEEL. NO DIECAST FITTINGS. 2.5. CONDUIT SIZES SHALL BE AS REQUIRED BY CODE & AS INDICATED OR SPECIFIED. 2.6. ALL EMPTY CONDUIT SYSTEMS SHALL HAVE A NYLON PULL STRING TO FACILITATE INSTALLATION OF FUTURE WIRE. 2.7. SCHEDULE 40 PVC CONDUIT SHALL BE PERMITTED UNDERGROUND w/ PROPER FITTINGS, ALL U.L. APPROVED & CEMENTED JOINTS. PENETRATIONS THROUGH FLOOR SLABS & BENDS GREATER THAN 22 DEGREES SHALL BE WRAPPED RIGID GALVANIZED STEEL ELBOWS. 2.8. CONDUITS & OUTLETS SHALL BE CONCEALED w/ THE BUILDING STRUCTURE, EXCEPT THAT CERTAIN MOTOR & LIGHTING FEEDER CONDUITS MAY BE RUN EXPOSED IN CERTAIN AREAS AS INDICATED ON THE DRAWINGS. CONDUITS SHOWN TO BE INSTALLED IN CABINETS, COUNTERS, & CASEWORK SHALL BE RUN AS DIRECTED BY THE ARCHITECT. 2.9. ALL CONDUIT SYSTEMS SHALL HAVE A CODE SIZED COPPER GROUND CONDUCTOR INCREASE CONDUIT SIZE AS REQUIRED. 2.10. CONDUIT PENETRATION THROUGH ROOF SHALL HAVE ROOF FLASHING w/ CAULK TYPE COUNTER FLASHING SLEEVE. INSTALLATION SHALL BE WATERTIGHT. 2.11. CONDUITS SHALL BE ROUTED SURFACE ON THE STRUCTURE, PARALLEL & PERPENDICULAR TO THE STRUCTURE. 3. OUTLET, PULL, & JUNCTION BOXES 3.1. EACH SWITCH, LIGHT, RECEPTACLE OR OTHER OUTLET SHALL BE PROVIDED w/ A CODE GAUGE, GALVANIZED STEEL OUTLET BOX. JUNCTION & PULL BOXES SHALL BE CODE GAUGE, GALVANIZED STEEL. OUTLET BOXES SHALL BE OF THE ONE PIECE, KNOCKOUT TYPE, IN GENERAL 4" SQUARE WITH PLASTER RING. PLASTER RINGS SHALL BE SET TO PROVIDE NOT MORE THAN 1/8" FROM WALL SURFACE TO RING. IN NO CASE SHALL PLASTER RING PROJECT BEYOND SURFACE OF WALL. SINGLE GANG RINGS SIMILAR TO STEEL CITY 52050 SHALL BE USED FOR 4" BOXES IN UNFINISHED BRICK NUMBER 180 BOXES MAY BE USED FOR UNFINISHED MASONRY FLUSH WALL OUTLETS. CENTER ALL OUTLET BOXES IN BLOCK COURSE. 3.2. BOXES INSTALLED IN POURED CEMENT FLOORS SHALL BE FLUSH TYPE CAST IRON OR STEEL w/ WATERTIGHT CASKETED COVERS. WHERE BOXES ARE INSTALLED IN FLOORS w/ TILE OR CARPET FLOOR COVERING, COVERS SHALL BE OF THE RECESSED TYPE TO ACCOMMODATE THE FLOOR COVERING. 3.3. BOXES INSTALLED FOR THE ALARM, COMPUTER, & SECURITY SYSTEM SHALL BE PROVIDED w/ APPROPRIATE COVER PLATES. 3.4. BOXES FOR TELEPHONE, COMPUTER, T.V., FIRE ALARM, SECURITY, & SIMILAR SYSTEMS SHALL BE MIN. 4" SQUARE AND 2-1/8" DEEP. 4. SWITCHBOARDS 4.1. SWITCHBOARDS SHALL BE PROVIDED w/ FULLY RATED COPPER OR ALUMINUM BUS. HORIZONTAL TAPERED BUSSING SHALL NOT BE ALLOWED. 4.2. ACCEPTABLE MANUFACTURERS - CUTLER HAMMER, SEIMENS, SQUARE D OR APPROVED EQUAL. 4.3. FACTORY ASSEMBLED DEAD FRONT, METAL ENCLOSED, & SELF-SUPPORTING SWITCHBOARD ASSEMBLY CONFORMING TO N.E.M.A. PB 2, U.L. 891, & COMPLETE FROM INCOMING LINE TERMINALS TO LOAD SIDE TERMINATIONS. 4.4. LINE & LOAD TERMINATIONS: ACCESSIBLE FROM ONLY THE FRONT OF THE SWITCHBOARD, SUITABLE FOR THE CONDUCTOR MATERIALS & NUMBER OF CONDUCTORS USED. 4.5. BUS CONNECTIONS: BOLTED, ACCESSIBLE FROM FRONT FOR MAINTENANCE. PROVIDE BELLEVILLE WASHERS FOR CONNECTION & PROPERLY TORQUE. 4.6. PROVIDE FULLY-RATED NEUTRAL BUS & FULLY RATED GROUND BUS MATCHING MATERIAL USED FOR MAIN BUS. 4.7. FUTURE PROVISIONS: FULLY EQUIP SPACES FOR FUTURE DEVICES w/ BUSSING & BUS CONNECTIONS. SUITABLY INSULATED & BRACED FOR SHORT CIRCUIT CURRENTS. CONTINUOUS CURRENT RATING AS INDICATED ON DRAWINGS. 5. PANELBOARDS 5.1. CIRCUIT BREAKER TYPE AS INDICATED ON DRAWINGS. U.N.O., ALL PANELS SHALL HAVE PANELBOARD TYPE CONSTRUCTION w/ BOLT-ON CIRCUITS. BREAKERS FOR 3PHASE PANELS. MANUFACTURERS SHALL BE GENERAL ELECTRIC, SQUARE D, SIEMENS, CUTLER-HAMMER OR EQUAL w/ VOLTAGE, SIZES, & RATINGS AS INDICATED ON DRAWINGS. 5.2. THE CIRCUIT BREAKERS SHALL BE OPERABLE IN ANY POSITION & BE REMOVABLE FROM THE FRONT OF THE PANELBOARD w/o DISTURBING ADJACENT UNITS. BRANCH BREAKERS SHALL BE OF SUCH DESIGN THAT COMBINATION OF SINGLE-P, DOUBLE-P, & TRIPLE-P BREAKERS CAN BE ASSEMBLED ON THE SAME PANEL. EACH BRANCH CIRCUIT SHALL BE CLEARLY NUMBERED. BRANCH & MAIN TERMINALS SHALL BE OF THE SOLDERLESS TYPE. HANDLE TIES TO FORM MULTI-POLE BREAKERS NOT ACCEPTABLE. 5.3. WIRE TERMINATION FOR PANELBOARDS & CIRCUIT BREAKERS SHALL BE LISTED AS SUITABLE FOR 75 DEGREES CELSIUS. 5.4. PROVIDE A TYPEWRITTEN CIRCUIT INDEX BEHIND CLEAR PLASTIC ON THE INSIDE OF THE DOOR. INFORMATION SHALL INCLUDE ROOM & TYPE LOAD SERVED. ALL CIRCUIT BREAKERS SHALL BE IDENTIFIED, INCLUDING SPARES. INDEX CARD FRAME SHALL BE METAL, SECURED TO DOOR. 5.5. WHERE PANELBOARDS ARE INSTALLED FLUSH w/ THE WALLS, EXTEND EMPTY CONDUITS FROM THE PANELBOARD TO AN ACCESSIBLE SPACE ABOVE OR BELOW. PROVIDE 3/4" (MIN. SIZE) CONDUIT FOR EVERY (3) THREE SINGLE SPARE CIRCUIT BREAKERS OR SPACE EQUIVALENT MULTI-POLE ARRANGEMENT, OR FRACTION THEREOF, BUT NOT LESS THAN (2) TWO CONDUITS FOR EACH PANEL. 5.6. PANELBOARDS TO BE PROVIDED w/ COPPER BUSSING ONLY. 5.7. LOAD CENTERS SHALL NOT BE ALLOWED U.N.O. 5.8. ALL NEW PANELBOARDS SHALL COMPLY w/ N.E.C ARTICLE 110.16. EQUIPMENT MANUFACTURER'S SHALL PROVIDE WARNING LABELS FOR ALL PANELBOARDS, GENERATORS, AUTOMATIC TRANSFER SWITCHES, ETC. TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE BEFORE EXAMINATION, ADJUSTMENT, SERVICE, OR MAINTENANCE OF THE EQUIPMENT. 6. WIRE 6.1. CONDUCTOR SIZES SHOWN ON THE DRAWINGS ARE BASED ON COPPER WIRE. U.N.O., ALL WIRE SHALL BE TYPE XHHW FOR FEEDERS OR BRANCH CIRCUITS LARGER THAN 4 AMERICAN WIRE GAUGE. TYPE THHN/THWN INSULATION FOR FEEDERS & BRANCH CIRCUITS 4 AMERICAN WIRE GAUGE & SMALLER. ALL BRANCH CIRCUIT WIRING SHALL BE COPPER. SERVICE & PANEL FEEDERS #1/0 & LARGER MAY BE ALUMINUM, PROVIDED THE CONDUCTOR SIZES ARE INCREASED FOR EQUAL OR GREATER AMPACITY & EQUAL OR LESS EQUIVALENT VOLTAGE DROP. INCREASE CONDUIT SIZE AS REQUIRED. THE WIRES SHALL BE MARKED w/ COLOR TO SIMPLIFY CIRCUIT IDENTIFICATION. U.N.O., BY LOCAL ORDINANCES GROUND WIRES SHALL BE GREEN, NEUTRAL WIRES SHALL BE 120V-WHITE, 277V-GRAY, & LIVE WIRES 208Y/120V & 120/240 SHALL BE BLACK (PHASE A), RED (PHASE B), & BLUE (PHASE C). FOR 480Y/277V CIRCUITS, THE COLOR CODE SHALL BE BROWN (PHASE A), ORANGE (PHASE B), & YELLOW (PHASE C). THE WIRE SHALL BE 12 AMERICAN WIRE GAUGE U.N.O. CIRCUIT SHALL BE LABELED IN EACH J-BOX. 6.2. WHERE ALUMINUM WIRE IS USED, ALUMINUM CONDUCTOR MATERIAL SHALL COMPLY w/ N.E.C. 310-14 & ALL CONNECTIONS & TERMINATIONS SHALL BE MACHINE COMPRESSION TYPE EQUAL TO BURNDY "HI PLUG" OR "MACADAPT", NO EXCEPTIONS. 6.3. NO WIRE SHALL BE INSTALLED IN THE CONDUIT SYSTEM UNTIL THE CONDUIT SYSTEM IS COMPLETE. USE MINERALAC NO. 100 OR EQUIVALENT AS A LUBRICANT TO FACILITATE THE INSTALLATION OF THE CONDUCTORS IN THE CONDUIT SYSTEM. 6.4. SPLICES IN EXTERIOR PULL BOXES & MANHOLES SHALL BE WEATHERPROOF USING "SCOTCHCAST" SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS & DUCTS w/ "DUCTSEAL" OR APPROVED EQUAL. 6.5. PROVIDE SOLID CONDUCTOR FOR 12 AMERICAN WIRE GAUGE & SMALLER. 7. WIRING DEVICES 7.1. WALL SWITCHES SHALL BE SPECIFICATION GRADE AC SILENT TYPE SWITCHES. 20A, 120/277 VOLT. 7.2. RECEPTACLES SHALL BE SPECIFICATION GRADE, DUPLEX TYPE, NEMA 5-20R, 20 AMPERE, 120 VOLT GROUNDED TYPE. SPECIAL APPLICATION RECEPTACLES SHALL BE INDICATED ON PLANS. MOUNT w/ THE GROUND DOWN. 7.3. DEVICE PLATES SHALL BE EQUAL TO SIERRA SMOOTH-LINE PLASTIC WALL PLATES. COLOR SHALL BE WHITE, U.N.O. 7.4. RECEPTACLES IN OUTDOOR & WET LOCATIONS SHALL BE INSTALLED w/ A HINGED OUTLET COVER/ENCLOSURE CLEARLY MARKED & U.L. LISTED SUITABLE FOR WET LOCATIONS WHILE IN USE, EQUAL TO TAYMAC SPECIFICATION GRADE. 8. LIGHTING FIXTURE 8.1. PROVIDE ALL LIGHTING FIXTURES, WIRED & CONNECTED. THE DRAWINGS INDICATE THE FIXTURES FOR EACH LOCATION. PROVIDE LAMPS FOR ALL FIXTURES. THE LAMPS SHALL BE BY THE SAME MANUFACTURER. VERIFY CEILING CONSTRUCTION BEFORE ORDERING RECESSED UNITS. PROVIDE PLASTER FRAMES & HANGERS AS REQUIRED, CEILING CONSTRUCTION, ARCHITECTURAL ACCESSORIES, VOLTAGE, & BALLASTS TO MEET THE EXISTING CONDITION. 9. SERVICE ENTRANCE SECTION 9.1. SERVICE ENTRANCE EQUIPMENT SHALL BE AS INDICATED ON THE DRAWINGS EQUIPMENT SHALL CARRY THE U.L. LABEL & CONFORM TO THE POWER COMPANY REGULATIONS. 9.2. SERVICE ENTRANCE EQUIPMENT SHALL BE PROVIDED w/ A FULLY RATED COPPER OR ALUMINUM BUS. HORIZONTALLY TAPERED BUSSING SHALL NOT BE ALLOWED. 10. SYSTEM GROUNDING 10.1. GROUNDING SHALL COMPLY w/ REQUIREMENTS OF ARTICLE 250. ALL EXPOSED NONCURRENT CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT, METALLIC RACEWAY SYSTEMS, METALLIC CABLE ARMOR, GROUNDING CONDUCTORS OF NONMETALLIC SHEATHED CABLES, GROUNDING CONDUCTORS IN NONMETALLIC RACEWAYS, & GROUNDED CONDUCTORS OF THE WIRING SYSTEMS SHALL BE GROUNDED. 10.2. GROUNDING CONDUCTOR (NEUTRAL) OF THE WIRING SYSTEM SHALL BE CONNECTED TO THE SYSTEM GROUNDING CONDUCTOR AT A SINGLE PLACE IN EACH SYSTEM BY REMOVABLE BONDING JUMPERS; SIZED ACCORDING TO THE APPLICABLE PROVISIONS OF THE N.E.C. THE GROUNDED CONDUCTOR (NEUTRAL) TO THE GROUNDING CONDUCTOR CONNECTION SHALL BE LOCATED IN THE ENCLOSURE FOR THE SYSTEM'S OVERCURRENT PROTECTION OR WHERE OTHERWISE INDICATED ON THE PLANS OR SPECIFICATIONS. 10.3. A GROUND BUS SEPARATE FROM THE NEUTRAL BUS SHALL BE PROVIDED IN ALL SWITCHBOARDS & PANELBOARDS. GROUND BUS SHALL BE TORQUED (CHECKED) PRIOR TO ENERGIZING EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. 10.4. GROUND BUSES & NEUTRAL BUSES IN ALL DISTRIBUTION PANELS, SWITCHBOARDS, PANELBOARDS, & THOSE PROVIDED IN ANY EQUIPMENT SHALL BE ISOLATED EXCEPT WHERE REQUIRED TO BE CONNECTED AS SPECIFIED ABOVE FOR THE SERVICE ENTRANCE & IN TRANSFORMER TERMINAL COMPARTMENTS. 10.5. WHEN INDICATED ON THE DRAWINGS, EQUIPMENT GROUNDING CONDUCTORS SHALL BE EXTENDED FROM THE GROUND BUS IN THE DISTRIBUTION EQUIPMENT TO THE RECEPTACLE, FIXTURE OR DEVICE LUGS WHERE THEY ARE PROVIDED. WHERE LUGS ARE NOT PROVIDED, EQUIPMENT GROUNDING CONDUCTORS SHALL BE CONNECTED TO EQUIPMENT ENCLOSURES. THE CONNECTIONS SHALL BE ARRANGED SUCH THAT REMOVAL OF THE RECEPTACLE, EQUIPMENT GROUND CONDUCTORS, OR GROUND JUMPERS FROM GROUND BUSING SHALL NOT AFFECT THE GROUND SYSTEM. 10.6. RACEWAYS MAY NOT BE USED AS A GROUNDING CONDUCTOR FOR POWER & LIGHTING CIRCUITS. ALL CONDUITS SHALL HAVE SEPARATE CODE SIZED GREEN GROUND WIRE INSTALLED IN THE CONDUIT TO INSURE A CONTINUOUS GROUNDING PATH. 10.7. IN INACCESSIBLE LOCATIONS, MAKE CONNECTIONS BY EXOTHERMIC WELD PROCESS. 10.8. IN ACCESSIBLE LOCATIONS, CONNECTIONS SHALL BE MADE w/ BOLTED THROUGH, APPROVED SOLDERLESS BRONZE GROUNDING DEVICES. 10.9. BOND TOGETHER METAL SIDING NOT ATTACHED TO GROUNDED STRUCTURE. 11. TELEPHONE SYSTEM 11.1. TELEPHONE WALL OUTLETS SHALL CONSIST OF STANDARD BOXES MOUNTED 18" ABOVE THE FLOOR U.N.O. CONNECT OUTLETS TO TELEPHONE TERMINAL w/ SEPARATE 3/4" CONDUIT U.N.O. ON DRAWINGS. PROVIDE A TERMINAL MOUNTING BOARD FOR THE INCOMING SERVICE CABLE. 12. LIGHTING CONTROL 12.1. FURNISH & INSTALL TIME SWITCHES, PHOTOCELLS, CONTACTORS & FULL LIGHTING CONTROL SYSTEMS AS REQUIRED FOR LIGHTING CONTROLS INDICATED ON THE DRAWINGS. 12.2. TIME SWITCHES SHALL BE EQUAL TO PARAGON, GENERAL ELECTRIC, TORK, OR INTERMATIC & SHALL HAVE SIZE & NUMBER OF POLES AS REQUIRED. 12.3. PHOTOCELLS SHALL BE EQUAL TO TORK OR INTERMATIC w/ VOLTAGE AS INDICATED. 13. LIGHTING INVERTER SYSTEM 13.1. LIGHTING INVERTERS SHALL HAVE A CENTRAL BATTERY AS EMERGENCY POWER SOURCE FOR EGRESS LIGHTING w/ SIZE & VOLTAGE AS INDICATED ON THE DRAWINGS. 13.2. ACCEPTABLE MANUFACTURES - DUAL-LITE, HUBBELL LIGHTING, LITHONIA LIGHTING EMERGENCY LIGHTING SYSTEMS, MCPHILBEN EMERGENCY LIGHTING OR APPROVED EQ. 13.3. UNIT SHALL AUTOMATICALLY SENSE LOSS OF NORMAL AC SUPPLY & USE A SOLID-STATE SWITCH TO TRANSFER LOADS. TRANSFER IN 0.004 SECOND OR LESS FROM NORMAL SUPPLY TO BATTERY-INVERTER SUPPLY. INVERTER SHALL BE COMPATIBLE w/ INCANDESCENT, MAGNETIC & ELECTRONIC FLUORESCENT BALLASTS, HIGH POWER FACTOR COMPACT FLUORESCENT, & HIGH INTENSITY DISCHARGE LAMP TYPES. 13.4. UNIT SHALL SUPPLY POWER TO OUTPUT CIRCUITS FROM A SINGLE, EXTERNAL, NORMAL SUPPLY SOURCE. UNIT AUTOMATICALLY TRANSFERS LOAD FROM NORMAL SOURCE TO INTERNAL BATTERY/INVERTER SOURCE. RETRANSFER TO NORMAL IS AUTOMATIC WHEN NORMAL POWER IS RESTORED. 13.5. UNIT SHALL COMPLY w/ NATIONAL FIRE PROTECTION AGENCY 70 & 101, & BE U.L. 924 LISTED. 13.6. UNIT SHALL SUSTAIN A FULL-CAPACITY OUTPUT FOR A MIN. OF 90 MINUTES. PROVIDE BATTERIES THAT ARE MAINTENANCE FREE. SEALED LEAD CALCIUM BATTERY w/ AN EXPECTED LIFE OF NO LESS THAN 10 YEARS. 13.7. UNIT SHALL CONTAIN GROUP DISPLAYS, INDICATIONS, & BASIC SYSTEM CONTROLS ON COMMON CONTROL PANEL ON FRONT OF CENTRAL BATTERY INVERTER ENCLOSURE. 13.8. ENCLOSURE SHALL BE STEEL, w/ HINGED LOCKABLE DOORS, SUITABLE FOR FLOOR MOUNTING. MANUFACTURER'S STANDARD CORROSION-RESISTANT FINISH. 14. UNINTERRUPTIBLE POWER SUPPLY (UPS) 14.1. UPS SHALL BE A CONTINUOUS DUTY, (3) THREE PHASE, ONLINE, SOLID STATE UNINTERRUPTIBLE POWER SUPPLY SYSTEM w/ SIZE & VOLT. AS INDICATED ON THE DRAWINGS. 14.2. ACCEPTABLE MANUFACTURERS: TOSHIBA INTERNATIONAL CORPORATION, MGE UPS SYSTEMS & MITSUBISHI. 14.3. UPS SHALL AUTOMATICALLY SENSE LOSS OF NORMAL AC POWER SUPPLY & CONVERT IT TO DC POWER. THE DC POWER IS THEN USED TO CHARGE THE BATTERY BANK WHILE PROVIDING CLEAN, DC POWER TO THE INVERTER CIRCUITRY. THE INVERTER WILL CONVERT DC POWER TO REGULATED AC POWER TO FEED THE LOAD. 14.4. UPON FAILURE OF COMMERCIAL AC POWER, THE UPS SHALL DERIVE POWER FROM THE BATTERY BANK & CONTINUE FEEDING THE LOAD w/ CLEAN, REGULATED AC POWER. THERE SHALL BE NO INTERRUPTION TO THE CRITICAL LOAD UPON FAILURE OR RESTORATION OF COMMERCIAL AC POWER. 14.5. UPON RESTORATION OF THE COMMERCIAL AC SOURCE, THE RECTIFIER/CHOPPER POWERS THE INVERTER WHILE SIMULTANEOUSLY RECHARGING THE BATTERY BANK. 14.6. UNIT SHALL COMPLY w/ NATIONAL FIRE PROTECTION AGENCY 70, AMERICAN NATIONAL STANDARDS INSTITUTE C62.41 (IEEE 587), INTERNATIONAL ORGANIZATION FOR STANDARDIZATION 9001, 14001 & BE U.L. 1778 LISTED. 14.7. THE UPS SHALL SUSTAIN A FULL-CAPACITY OUTPUT FOR A MIN. OF 40 MINUTES. PROVIDE BATTERIES THAT ARE MAINTENANCE FREE, ABSORBED GLASS MAT (AGM) w/ AN EXPECTED LIFE OF NO LESS THAN 10 YEARS. 14.8. UNIT SHALL CONTAIN GROUP DISPLAYS, INDICATIONS & BASIC SYSTEM CONTROLS ON COMMON CONTROL PANEL ON FRONT OF UPS ENCLOSURE. 14.9. ENCLOSURE SHALL BE STEEL, w/ HINGED LOCKABLE DOORS, SUITABLE FOR FLOOR MOUNTING. MANUFACTURER'S STANDARD CORROSION-RESISTANT FINISH. 14.10. UPS TO BE PROVIDED w/ AN EMERGENCY POWER OFF SWITCH TO TRIP OPEN THE UPS & BATTERY CIRCUIT BREAKERS. UPS SHALL CONTAIN A SERIAL DATA LINK TO ENABLE UPS TO INTERFACE TO A COMPUTER THAT WILL PROVIDE STATUS & DIAGNOSTIC INFORMATION. 14.11. UPS SHALL USE INSULATED-GATE BIPOLAR TRANSISTOR TECHNOLOGY FOR THE POWER INPUT SECTION. UPS SHALL NOT REQUIRE AN OVERSIZED GENERATOR TO MAINTAIN CONTINUOUS POWER TO EQUIPMENT. 15. GUARANTEE 15.1. IT IS GUARANTEED THAT ALL MATERIAL FURNISHED & ALL WORKMANSHIP PERFORMED FOR A PERIOD OF (1) ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF WORK. ANY DEFECTS DEVELOPING WITHIN THIS PERIOD, TRACEABLE TO MATERIAL FURNISHED AS A PART OF THIS SECTION OR WORKMANSHIP PERFORMED HEREUNDER, SHALL BE MADE GOOD AT NO EXPENSE TO THE OWNER. 16. SHOP DRAWINGS & APPROVALS 16.1. THE ITEMS SPECIFIED HEREIN & ON DRAWINGS ARE USED AS A STANDARD OF QUALITY. ANY MATERIALS OF EQUAL QUALITY & AESTHETIC VALUE WILL BE GIVEN CONSIDERATION AS A SUBSTITUTE FOR THE MATERIALS SPECIFIED. NO APPROVAL WILL BE GIVEN TO A SPECIFIC CATALOG NUMBER, MODEL, OR TYPE OF EQUIPMENT, PRIOR TO BIDDING. AFTER BIDDING, THE DECISION OF THE ARCHITECT &/or ENGINEER DETERMINING EQUAL MATERIALS WILL BE FINAL. 16.2. THE CONTRACTOR SHALL SUBMIT (7) SEVEN IDENTICAL BOUND SETS OF SHOP DRAWINGS ON THE FOLLOWING ITEMS: 16.2.1. LIGHTING FIXTURE CUTS & PERFORMANCE DATA. 16.2.2. OUTLINE DRAWINGS & DATA SHEETS OF EACH PANELBOARD & SWITCHBOARD. 16.2.3. OUTLINE DRAWINGS OF ALL SWITCHGEAR. 16.3. SUBMIT ITEMS AT ONE TIME IN A NEAT & ORDERLY MANNER WITHIN 15 DAYS OF AWARD OF CONTRACT. PARTIAL SUBMITTALS WILL NOT BE ACCEPTABLE. 17. RECORD & AS-BUILT DRAWINGS 17.1. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN A SET OF DRAWINGS AT THE JOB SITE FOR THE EXCLUSIVE PURPOSE OF MAINTAINING A RECORD OF ALL WORK INSTALLED & TO SHOW ANY DEVIATIONS FROM THE WORK INDICATED ON THE DRAWINGS. 17.2. AT THE COMPLETION OF THE PROJECT, ONE SET OF REPRODUCIBLE DRAWINGS, SHOWING ALL AS-BUILT CONDITIONS, SHALL BE DELIVERED TO THE OWNER FOR ACCEPTANCE PRIOR TO FINAL PAYMENT.

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Sage Memorial Hospital
NAVAJO HEALTH FOUNDATION

NHF - SAGE MEMORIAL HOSPITAL INC.
SR 264 & CEDAR HILLS ROAD
GANADO AZ 86505

SAGE TINY HOME & RV PARK
15 UNIT - ELECTRICAL SERVICE
SAGE MEMORIAL HOSPITAL
GANADO AZ 86505

ELECTRICAL SPECIFICATIONS

PROJECT LOCATION

STAMP

DATE SIGNED:
SHEETS BEARING THIS SEAL AND NET SIGNATURE
ARE AUTHENTICATED. RESPONSIBILITY FOR ALL
OLDER PLANS, SPECIFICATIONS OR INSTRUMENTS
ARE DISCLAIMED.

REVISIONS

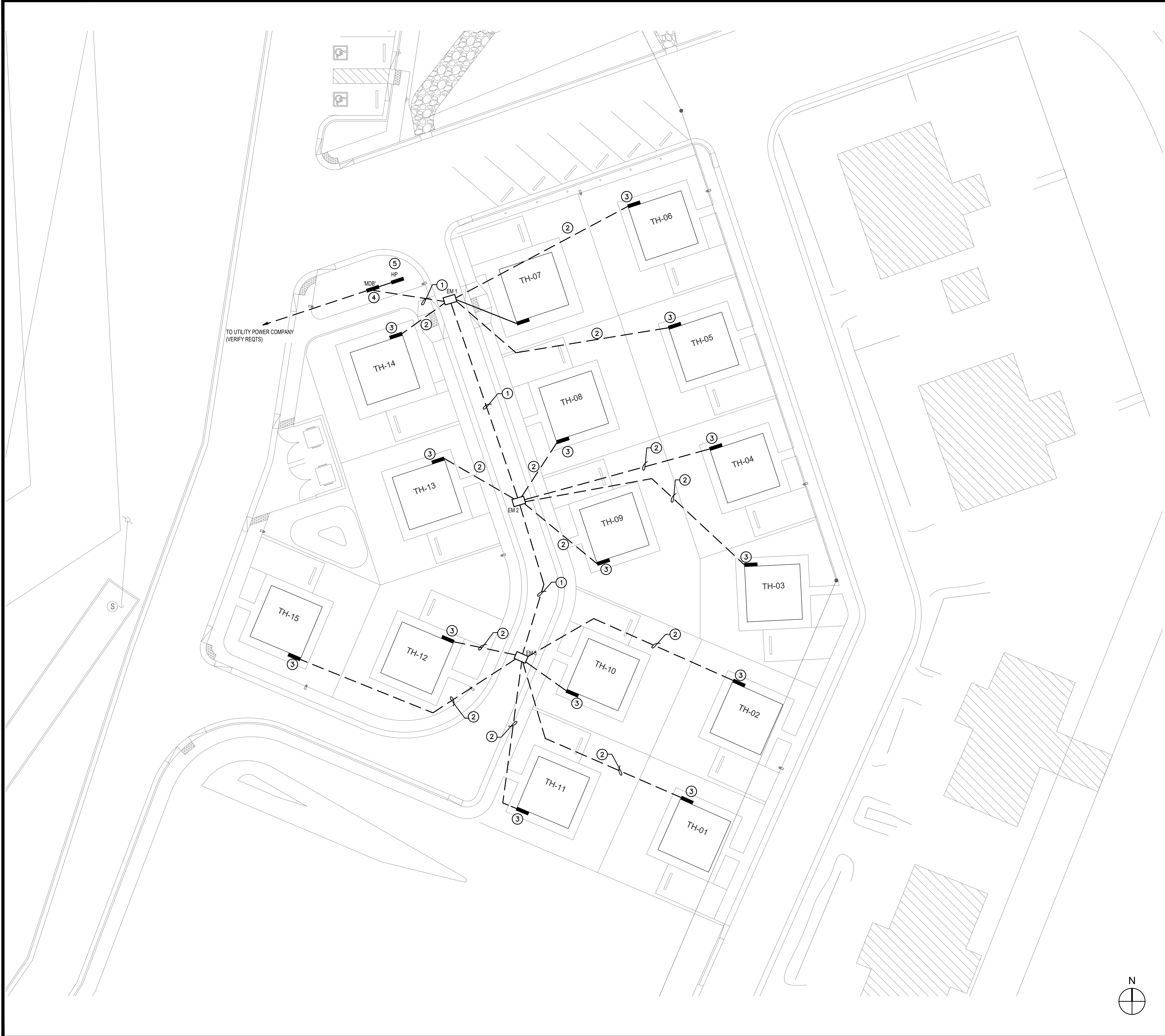
DATE
2026/09/11

PROJECT NUMBER
26-095

SHEET NUMBER

E0.3

Plotted: 9/14/2026 8:44 AM [XXX] File: tiny home sage memorial gamada az_electrical set.dwg



ELECTRICAL SITE PLAN

SCALE
1/16" = 1'-0"

1

GENERAL NOTES

- REFER TO E0.1 FOR ADDITIONAL GENERAL NOTES.
- FIELD VERIFY EXACT LOCATION & ELECTRICAL REQUIREMENTS OF ALL HVAC EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING RELATED ELECTRICAL EQUIPMENT.
- ALL CONDUIT FOR THE CATS (TELEPHONE) SHALL BE EMT - NO FLEX CONDUIT.
- COORDINATE ALL ROOF PENETRATIONS WITH THE LANDLORD. WRITTEN PERMISSION FROM THE LANDLORD SHALL BE RECEIVED PRIOR TO ANY WORK BEING PERFORMED. ALL ROOF PENETRATIONS TO BE BY LANDLORD'S CONTRACTOR AT TENANT'S ELECTRICAL CONTRACTOR'S EXPENSE.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL COMMUNICATION WIRING. ALL CABLING SHALL BE BLUE PLENUM RATED CAT5e. ALL CABLE & TERMINATION SHALL BE TESTED & LABELED AT BOTH ENDS. THE ELECTRICAL CONTRACTOR SHALL TERMINATE ALL WIRING AT OUTLET LOCATIONS ON PLANS & CONNECT ALL WIRING TO THE PATCH PANEL FOR ALL COMMUNICATIONS. THE OWNER WILL CONNECT PATCH PANEL TO SERVER.
- ALL COMMUNICATION OUTLETS SHALL HAVE A 1" CONDUIT STUB UP TO ACCESSIBLE CEILING SPACE FOR DATA WIRING. PROVIDE INSULATED BUSHING AT EACH CONDUIT END. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. CONNECT ALL CABLES INTO IT SPACE.
- ANY BRANCH CIRCUIT THAT SERVE NEW AIR COMPRESSORS, SHALL HAVE A "FULL SIZED" NEUTRAL CONDUCTOR (MATCHING THE CONDUCTOR SIZE OF THE CURRENT CARRYING CONDUCTORS INSTALLED).
- ALL UNDERGROUND CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH N.E.C. 300.5.
- ANY PROPOSED TRENCHING FOR ELECTRICAL CONDUITS SHOWN PLANS SHALL BE CONSIDERED AS SUGGESTED TRENCH ROUTING - CONTRACTOR TO ADJUST AS REQUIRED DUE TO SITE CONDITIONS. COORDINATE ROUTING OF ALL UNDERGROUND CONDUITS WITH STIZY'S CONSTRUCTION MANAGER PRIOR TO TRENCHING.
- RECEPTACLES SHALL BE PROTECTED W/ GFCI DEVICES (RECEPTACLE OR BREAKER) CONTRACTOR TO PROVIDE LOWEST COST SOLUTION. THIS IS TO BE DETERMINED AND VERIFIED BY ELECTRICAL CONTRACTOR. AS REQUIRED BY CURRENT ADOPTED NEC CODE & ANY LOCAL AMENDMENTS.

KEYNOTES

- MAIN UTILITY DISTRIBUTION SERVICE DWELLING ELECTRICAL FEEDER (TYP)
- DWELLING UNIT SERVICE FEEDER (TYP) (1 1/2" C, 3/4" #6 GND. CU)
- CONNECT TO FACTORY INSTALLED UNIT DWELLING ELECTRICAL PANEL, 100A, 120/240V, 1PH, 3W, NEMA 3R (TYPICAL) REFER TO SHEET E2.1 FOR PRE-WIRED PANEL SCHEDULE AND SEE SINGLE LINE DIAGRAM
- MAIN MDB, 800A, 120/240V, 1PH, 3W, 65KAIC, NEMA 3R, COORDINATE EXACT LOCATION
- PANEL 'HP' (HOUSE PANEL) 100A, 120/240V, 1PH, 3W NEMA 3R COORDINATE EXACT LOCATION

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PROJECT
LOCATION

SAGE TINY HOME & RV PARK
15 UNIT - ELECTRICAL SERVICE
SAGE MEMORIAL HOSPITAL
GANADO AZ 86505

SHEET TITLE

ELECTRICAL SITE PLAN

STAMP

Registered Professional Engineer
CERTIFICATE NO.
84399
CHARLES
SWANSON
Exp. 09/15/2029
ARIZONA, U.S.A.

DATE SIGNED:
SHEETS BEARING THIS SEAL AND WET SIGNATURE
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OLDER PLANS, SPECIFICATIONS OR INSTRUMENTS
ARE DISCLAIMED.

REVISIONS

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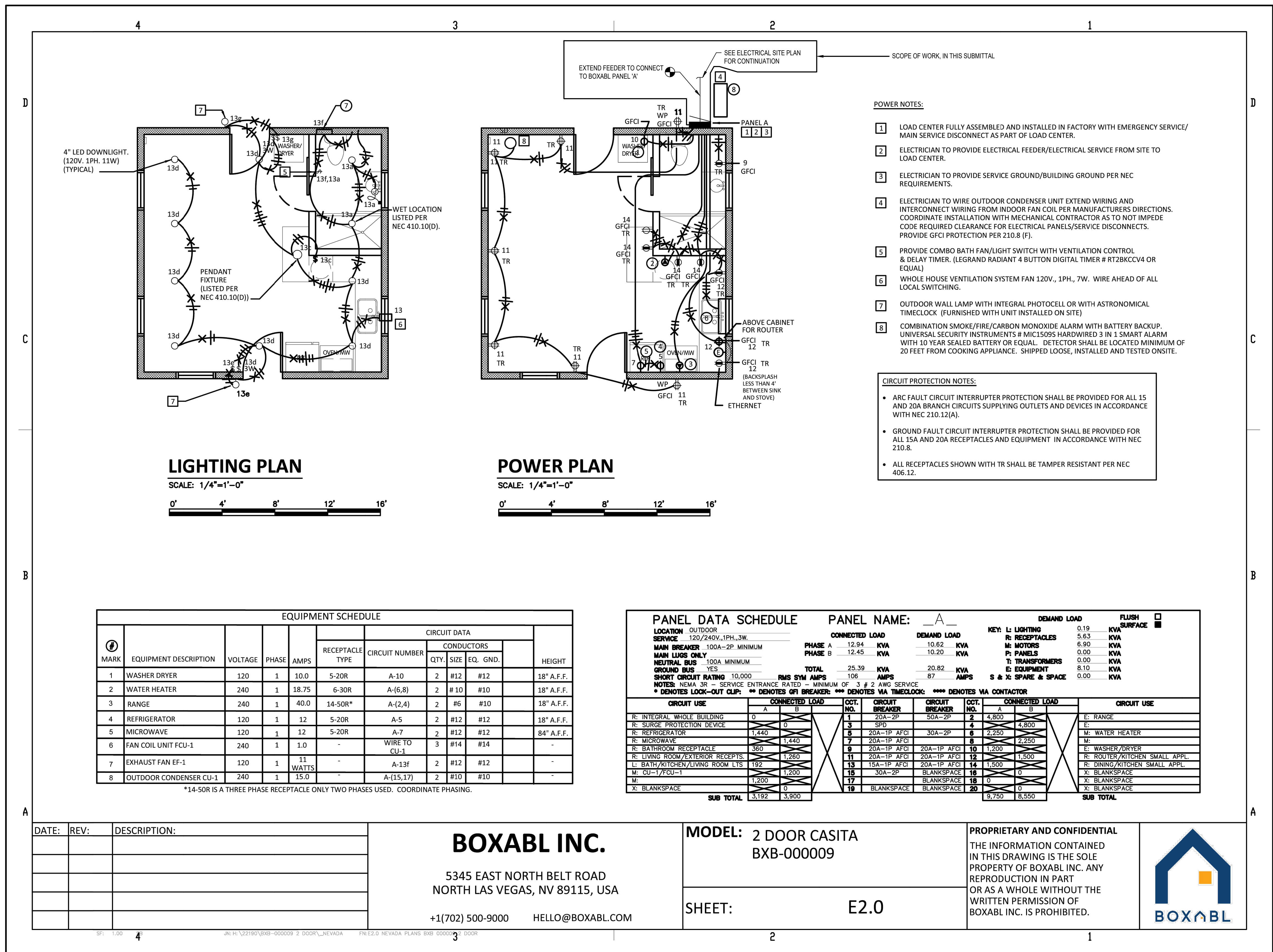
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DATE
2026/09/11

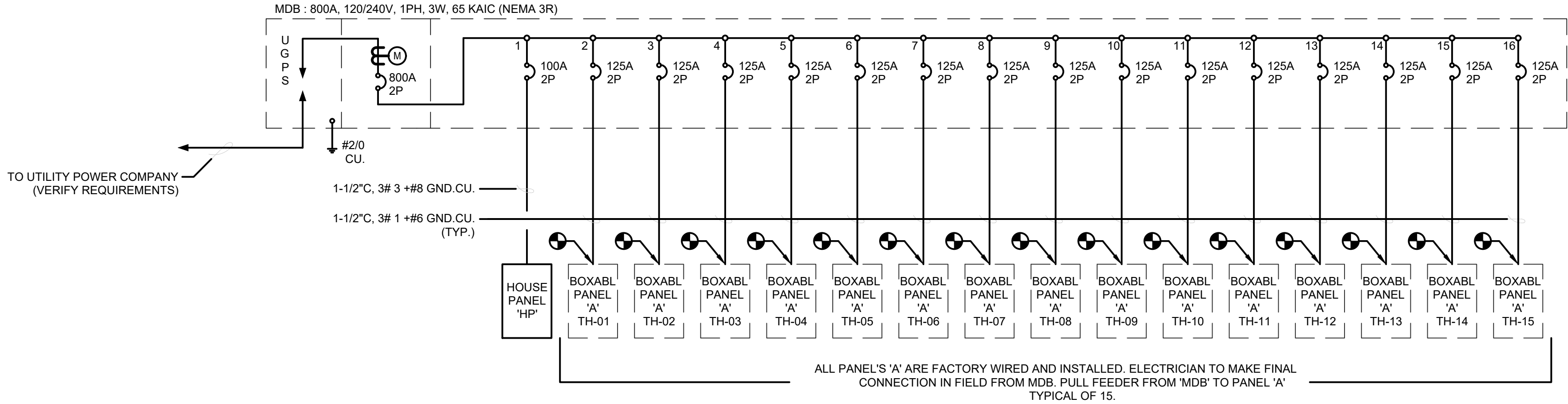
PROJECT NUMBER
26-095

SHEET NUMBER

E1.1



Plotted: 9/14/2026 8:43 AM [XXX] File: tiny home sage memorial gamada az_electrical set.dwg



1 ELECTRICAL SINGLE LINE DIAGRAM
SCALE: N.T.S.

PROJECT: SAGE MEMORIAL HOSPITAL - TINY HOME & RV PARK
SUBJECT: BUILDING LOAD SUMMARY

UNIT #	KVA	A	SERVICE AMP	NOTE
1	25.354	106	125A, 2P	
2	25.354	106	125A, 2P	
3	25.354	106	125A, 2P	
4	25.354	106	125A, 2P	
5	25.354	106	125A, 2P	
6	25.354	106	125A, 2P	
7	25.354	106	125A, 2P	
8	25.354	106	125A, 2P	
9	25.354	106	125A, 2P	
10	25.354	106	125A, 2P	
11	25.354	106	125A, 2P	
12	25.354	106	125A, 2P	
13	25.354	106	125A, 2P	
14	25.354	106	125A, 2P	
15	25.354	106	125A, 2P	
UNIT TOTAL LOAD	380.31			PER 2014 NEC TABLE 220.84 (36% X 15 UNIT) (380.31 X 0.36)
HOUSE LOAD	136.91			HOUSE PANEL HP
TOTAL LOAD	20		100A, 2P	AT 120/240V, 1PH, 3W
	156.91	717A		MISCELLANEOUS LOADS
	15			
TOTAL DEMAND LOAD	171.91	780	800, 2P	MAIN SERVICE AT 120/240V, 1PH, 3W

GENERAL NOTES

- FIELD VERIFY MINIMUM AIC RATINGS OF EXISTING ELECTRICAL EQUIPMENTS.
- ADJUST CIRCUITING ON PANELBOARDS AS REQUIRED TO MAINTAIN MAXIMUM 10% LOAD IMBALANCE.
- PROVIDE A COMPLETE TYPED DIRECTORY IN EACH PANELBOARD TO INCLUDE EXISTING LOADS TO REMAIN AS WELL AS NEW LOADS. DIRECTORY SHALL INDICATE EQUIPMENT NAME AND/OR ROOM NUMBER OF EQUIPMENT OR DEVICES FOR BOTH NEW AND EXISTING LOADS PER NEC 408.4.
- PANELBOARDS IDENTIFICATION LABEL SHALL INCLUDE THE NAME WHERE POWER SUPPLY ORIGINATES PER NEC 408.4.
- CIRCUIT BREAKERS SERVING FIRE ALARM SYSTEM PANELS AND POWER SUPPLIES SHALL BE IDENTIFIED AS FIRE ALARM, PROVIDED WITH LOCK ON DEVICE, AND HAVE A RED COLORED HANDLE OR PAINTED RED.
- FIELD VERIFY AVAILABLE FAULT CURRENT AT SERVICE ENTRANCE WITH UTILITY COMPANY PRIOR TO PROCUREMENT OF ELECTRICAL DISTRIBUTION EQUIPMENT AND VERIFY MINIMUM FAULT INTERRUPTING RATINGS OF MAIN SWITCHBOARD AND BRANCH PANELBOARD.
- ALL OVERCURRENT DEVICES IN AN INDIVIDUAL PIECE OF EQUIPMENT SHALL HAVE AN AIC RATING EQUAL TO THE OVERALL RATING OF THE EQUIPMENT.
- ALL TERMINATIONS AND ENCLOSURES SHALL BE RATED FOR USE WITH 75 DEGREE CELSIUS CONDUCTORS.
- ALL SERVICE ENTRANCE EQUIPMENT, SWITCHBOARDS, DISTRIBUTION BORARDS, AND PANELBOARDS RATED AT 400AMPS OR GREATER, SHALL BE PROVIDED WITH A MAIN OVERCURRENT DEVICE AND BUSSING RATED AT 100% CONTINUOUS OPERATION.
- ALL BRANCH OR FEEDER CIRCUIT OVER CURRENT DEVICES RATED AT 400AMPS OR HIGHER SHALL BE RATED FOR 100%



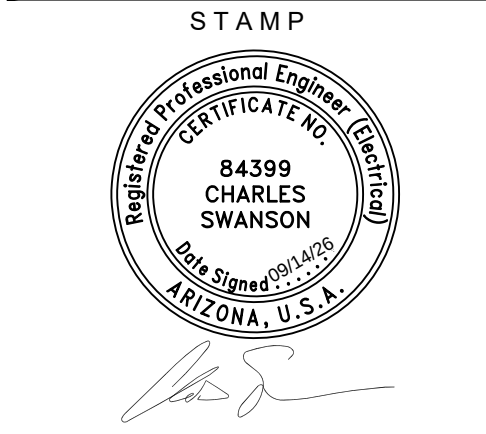
CARLOS RIVAS
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carlos@rivasdesignconsultants.com

MECHANICAL | ELECTRICAL | PLUMBING



PROJECT LOCATION
SAGE TINY HOME & RV PARK
15 UNIT - ELECTRICAL SERVICE
SAGE MEMORIAL HOSPITAL
GANADO AZ 86505

SHEET TITLE
ELECTRICAL SINGLE LINE AND PANEL SCHEDULE



DATE SIGNED:
SHEETS BEARING THIS SEAL AND WET SIGNATURE
ARE AUTHENTICATED. RESPONSIBILITY FOR ALL
OLDER PLANS, SPECIFICATIONS OR INSTRUMENTS
ARE DISCLAIMED.

REVISIONS

DATE
2026/09/11
PROJECT NUMBER
26-095

SHEET NUMBER

E3.1