

NOTE: SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS

- ### FIRE ALARM SYSTEM NOTES

1. FIRE ALARM SYSTEM TO BE DESIGN-BUILD BY ELECTRICAL CONTRACTOR. FIRE ALARM PLANS FOR THIS PROJECT TO BE SUBMITTED UNDER A DEFERRED SUBMITTAL. THE ELECTRICAL CONTRACTOR SHALL OBTAIN THE SERVICES OF A NICEET FIRE ALARM LEVEL III CERTIFIED ENGINEER REGISTERED IN ARKANSAS TO PRODUCE FIRE ALARM PLANS AND DOCUMENTATION SPECIFIC TO THE LOCAL AHJ, INCLUDING, BUT NOT LIMITED TO, EQUIPMENT SELECTION AND SPECIFICATIONS, VOLTAGE DROP CALCULATIONS, CIRCUITING, INTERCONNECTION WITH OTHER BUILDING SYSTEMS AS NECESSARY FOR A COMPLETE AND OPERABLE FIRE ALARM SYSTEM. THE FINAL PLANS SHALL BE SEALED AND SIGNED AND SHALL BE SUBMITTED TO THE FIRE AUTHORITY HAVING JURISDICTION FOR REVIEW.
2. ONCE PLANS HAVE BEEN REVIEWED AND ACCEPTED BY THE FIRE AUTHORITY HAVING JURISDICTION, THE ELECTRICAL CONTRACTOR SHALL THEN OBTAIN THE SERVICES OF A LICENSED AND EXPERIENCED FIRE ALARM CONTRACTOR TO FURNISH AND INSTALL THE FIRE ALARM SYSTEM PER THE COMPLETED AND APPROVED FIRE ALARM PLANS. THE FINAL INSTALLED SYSTEM SHALL BE A COMPLETE AND OPERABLE SYSTEM AND BE INSPECTED BY THE LOCAL AUTHORITY HAVING JURISDICTION.



1. HEIGHTS SHOWN ARE TYPICAL TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
2. WHERE ANY DEVICES ARE INDICATED TO BE ABOVE DOORS, DEVICE SHALL BE CENTERED BETWEEN TOP OF DOOR TRIM AND CEILING LINE.
3. ALL DEVICES INDICATED TO BE INSTALLED AT DIFFERENT MOUNTING HEIGHTS AND LOCATED WITHIN ONE STUD SPACE FROM EACH OTHER SHALL ALIGN VERTICALLY, ON THE SAME SIDE OF THE STUD, WHERE WALL MOUNTED TELEPHONES OCCUR OVER LIGHT SWITCHES, VOLUME CONTROLS, ETC. OFFSET ONE STUD SPACE.
4. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE.

SCALE: NOT TO SCALE



1. THIS DETAIL IS PROVIDED AS SUPPLEMENTARY INFORMATION. THE CONTRACTOR SHALL PROVIDE AN ELECTRICAL GROUNDING SYSTEM THAT MEETS ARTICLE 250 OF THE NEC. ALL GROUNDING ELECTRODE CONDUCTORS SHALL BE SIZED PER TABLE 250.66. WHERE THIS DETAIL AND THE CONSTRUCTION DOCUMENTS EXCEED ARTICLE 250 THE CONTRACTOR SHALL PROVIDE THE MORE STRINGENT REQUIREMENTS DETAILED IN THESE DOCUMENTS IN LIEU OF ARTICLE 250 OF THE NEC. GROUNDING TO BE WITHIN 5' OF THE ENTRANCE TO THE BUILDING

SCALE: NOT TO SCALE



1. THE GROUNDING ELECTRODE CONDUCTOR CONNECTION POINT IS NOT NECESSARILY A PHYSICAL CONNECTION. IT IS PROVIDED TO ILLUSTRATE THE INTERCONNECTION OF THE GROUNDING ELECTRODE SYSTEM. IT COULD, FOR EXAMPLE, BE THE WATER PIPE.
2. NEC REFERENCES ARE FROM 2020 NATIONAL ELECTRIC CODE.
3. BONDS SHALL BE MECHANICAL TYPE. INTERIOR BONDS MAY BE EXOTHERMIC.
4. BOND SIZE SHALL MATCH CONDUCTORS SHOWN ON FEEDER SCHEDULE.
5. GROUND CONDUCTORS SHALL BE STRANDED COPPER INSULATED CABLE, U.N.O.
6. GROUNDING SHALL BE WITHIN 5' OF THE BUILDING ENTRANCE.

DETAIL NOTES - GROUNDING DETAIL

- 1 SIZE PER TABLE 250-66 UP TO 1100 KCMIL. SIZE TO 12.5% OF FEEDERS WHEN OVER 1100 KCMIL. MAIN BONDING JUMPER FOR SERVICES GREATER THAN 1000A, PROVIDED WITH SERVICE ENTRANCE SWITCHGEAR ARE ACCEPTABLE.
- 2 SIZE PER TABLE 250-122. ASSUMES MAIN DEVICE RATING IS EQUAL TO FEEDER SIZE.
- 3 SIZE PER TABLE 250-66.

SCALE: NOT TO SCALE

Sheet Number	Sheet Title
E1.0	ELECTRICAL COVER SHEET
E1.1	SINGLE LINE & SCHEDULES
E1.2	SCHEDULES
E2.0	POWER PLAN
E2.1	LIGHTING PLAN
E3.0	COMCHECK

DESIGN CODES

- 2021 INTERNATIONAL BUILDING CODE (IBC)
- 2014 ARKANSAS ENERGY CONSERVATION CODE (AEECC
(2009 IECC)
- 2018 ARKANSAS PLUMBING CODE (APC)
- 2021 ARKANSAS MECHANICAL CODE (AMC)
- 2021 ARKANSAS FIRE CODE (AFC)
- 2018 ARKANSAS FUEL & GAS CODE (AFGC)
- 2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
- 2020 NATIONAL ELECTRIC CODE (NEC)
- - SECTION 517 - PATIENT CARE FACILITY

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	ABBREVIATIONS
	LIGHTING		WALL-COAXIAL CABLE OUTLET MTD 18" AFF. UON	A	AMPERES
	DOWN LIGHT		WALL-COMBINATION DUAL DATA COAXIAL OUTLET MTD 18", DATA	AC	ABOVE COUNTER
	DOWN LIGHT - SQUARE		OCCUPANCY SENSOR	AFCI	ARC-FAULT CIRCUIT INTERRUPTED
	WALL WASHER		PHOTOELECTRIC SENSOR	AF	AMPERE FRAME, AMPERE FUSE
	WALL MOUNTED FIXTURE		SINGLE POLE SWITCH, MTD 46" AFF, UON SUBSCRIPT INDICATES SWITCHING LEG	AFB	ABOVE FINISHED FLOOR
	WALL MOUNTED FIXTURE		TWO-POLE SWITCH	AFG	ABOVE FINISHED GRADE
	TRACK LIGHTING		THREE-WAY SWITCH	AIC	AMPERES INTERRUPTING CAPACITY
	SURFACE FIXTURE		FOUR-WAY SWITCH	ANN	ANNUNCIATOR
	RECESSED FIXTURE		DIMMER SWITCH	AT	AMPERE TRIP
	SHADING INDICATES EMERGENCY FIXTURE		PILOT LIGHT SWITCH	ATS	AUTOMATIC TRANSFER SWITCH
	CEILING MOUNTED EXIT SIGNS, SHADING INDICATES FACE(S) ARROW(S) AS INDICATED		KEY OPERATED SWITCH	AWG	AMERICAN WIRE GAUGE
	WALL MOUNTED EXIT SIGNS, SHADING INDICATES FACE(S) ARROW(S) AS INDICATED		LOW VOLTAGE SWITCH	C	CONDUIT
	EMERGENCY LIGHTING UNIT		MOTOR SWITCH	CATV	CABLE TELEVISION
	COMBINATION EXIT SIGN / EMERGENCY LIGHTING UNIT		MOMENTARY CONTACT SWITCH	CB	CIRCUIT BREAKER
	POLE MOUNTED FIXTURE		OCCUPANCY SENSOR SWITCH	CCTV	CLOSED CIRCUIT TELEVISION
	SURFACE MOUNTED PARKING GARAGE FIXTURE		THERMAL OVERLOAD SWITCH	E	EXISTING
	BULLET SPOTLIGHT		DISTRIBUTION / RACEWAY	EC	EMPTY CONDUIT
	BOLLARD TYPE FIXTURE		SWITCHGEAR / SWITCHBOARD	EM	EMERGENCY
	FIRE ALARM		BRANCH CIRCUIT PANELBOARD	EMT	ELECTRIC METALLIC TUBING
	SMOKE - CO DETECTOR		TRANSFORMER	EP	EXPLOSION PROOF
	ELECTROMAGNETIC DOOR HOLD OPEN		DISCONNECT	EPO	EMERGENCY POWER OFF
	SMOKE DETECTOR		ONE-LINE DIAGRAM	EWIC	ELECTRIC WATER COOLER
	THERMAL DETECTOR		TRANSFORMER (# = KVA)	FA	FIRE ALARM
	FIRE/SMOKE DAMPER		TRANSFORMER WITH GROUND SECONDARY, KVA SIZE & VOLTAGE RATIO AS NOTED	FACP	FIRE ALARM CONTROL PANEL
	FIRE DAMPER		DISCONNECT SWITCH	G	GROUND
	SMOKE DAMPER		FUSED DISCONNECT SWITCH, 3-POLE	GND	GROUND
	DEVICES		AUTOMATIC TRANSFER SWITCH	GFI	GROUND FAULT INTERRUPTER
	JUNCTION BOX		UTILITY METER	HOA	HAND / OFF / AUTOMATIC
	MOTOR		GROUND	IG	ISOLATED GROUND
	UON, GFI = GROUND FAULT INTERRUPTING, WALL-DUPLEX RECEPTACLE MTD 18" AFF, AFCI = ARC FAULT INTERRUPTING, USB = USB PORT		GENERATOR	IMC	INTERMEDIATE METAL CONDUIT
	FLOOR-DUPLEX RECEPTACLE, GFI = GROUND FAULT INTERRUPTING, AFCI = ARC FAULT INTERRUPTING		EQUIPMENT ENCLOSURE	ISC	SHORT CIRCUIT CURRENT
	CEILING-DUPLEX RECEPTACLE, GFI = GROUND FAULT INTERRUPTING, AFCI = ARC FAULT INTERRUPTING		SERVICE WEATHERHEAD	KAIC	KILO-AMPERES INTERRUPTING CAPACITY
	WALL-CONVENIENCE RECEPTACLE, SPLIT FLOOR-CONVENIENCE RECEPTACLE, SPLIT WIRED		SHORT CIRCUIT CURRENT AVAILABLE AT POINT INDICATED	KCMIL	THOUSAND CIRCULAR MILS
	WALL-TWO DUPLEX RECEPTACLES IN TWO WIRED		TRANSIENT VOLTAGE SURGE SUPPRESSOR	MAX	MAXIMUM
	FLOOR-TWO DUPLEX RECEPTACLES IN TWO GANG BOX		FEEDER SCHEDULE	MCB	MAIN CIRCUIT BREAKER
	GANG BOX		LOAD CENTER	MCC	MOTOR CONTROL CENTER
	CEILING-TWO DUPLEX RECEPTACLES IN TWO GANG BOX		LINE TYPES	MCM	THOUSAND CIRCULAR MILS
	WALL-SPECIAL PURPOSE RECEPTACLE, CONFIGURATION NOTED		BOLD LINES INDICATE NEW OR RELOCATED EQUIPMENT RELOCATED EQUIPMENT MAY INCLUDE "RL"	MTD	MOUNTED
	FLOOR MOUNTED COMBO POWER / DUAL DATA OUTLET		SCREENED LINES INDICATE EXISTING EQUIPMENT TO REMAIN	MDC	MAIN DISTRIBUTION CENTER
	WALL - DATA OUTLET MTD 18" AFF, UON		DASHED LINES INDICATE FUTURE	MIN	MINIMUM
	WALL - DUAL DATA, MTD 18" AFF, UON		SCREENED DASHED LINES INDICATES EQUIPMENT TO BE DEMOLISHED OR REMOVED	MLO	MAIN LUGS ONLY
				NEC	NATIONAL ELECTRICAL CODE
				N	NEW
				NC	NOT IN CONTRACT
				NL	NIGHT LIGHT
				NC	NORMALLY CLOSED
				NO	NORMALLY OPEN
				NTS	NOT TO SCALE
				OC	ON CENTER
				OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
				OFDI	OWNER FURNISHED, OWNER INSTALLED
				PC	PULLDOWN
				RGS	RIGID STEEL
				RL	RELOCATE

NOTE:

- 1 NOT ALL SYMBOLS ON THIS LEGEND ARE
NECESSARILY USED ON THIS PROJECT
2 ELEVATIONS INDICATED ON LEGEND ARE
UON



DYNAMIC MEP
CONSULTING ENGINEERS

303.421.3208 | info@dmce.com

Oz Orthodontics
33334 N Mana Ct, 3rd Floor, Fayetteville, AR 72703



REVISIONS		
#	Date	Description

DATE: 18 Aug 2026

PROJECT NO: 26085

DRAWN BY: JG / MAB

ISSUED FOR: Permit Set

E1.0