FILE NAME: J:\- Hospitals - Medical - Dental\2513 - Postive Steps Fertility McMath\Current Drawings to Use\E6 - Electrical legend.dwg PLOT DATE & TIME: Friday, May 16, 2025 2:53:14 PM

GENERAL NOTES

1. ALL EQUIPMENT AND DEVICES ARE TO BE FLUSH MOUNTED UNLESS OTHERWISE NOTED.
2. DEVICES NOTED AS "GFI" SHALL BE GROUND FAULT CIRCUIT INTERRUPTING DEVICES.
3. DEVICES NOTED AS "WP" SHALL BE WEATHERPROOF WHILE-IN-USE.
4. DEVICES NOTED AS "DL" SHALL BE RATED FOR DAMP LOCATION.
5. DEVICES NOTED AS "NL" SHALL BE NIGHT LIGHTS. PROVIDE UNSWITCHED POWER TO FIXTURE.
6. DEVICES NOTED AS "WG" SHALL BE PROVIDED AND INSTALLED WITH A WIRE GUARD.
7. DEVICES NOTED AS "TR" SHALL BE TAMPER RESISTANT.
8. PROVIDE UNSWITCHED POWER TO EMERGENCY BATTERY PACKS.

LUMINARIES (SEE LIGHT FIXTURE SCHEDULE)

NOTE: THE NUMBER INSIDE THE CIRCLE IS THE CURRENT NUMBER. THE LETTER BESIDE THE SYMBOL IS THE FIXTURE TYPE DESCRIBED IN THE LIGHT FIXTURE SCHEDULE.

- 2'X2' RECESSED FIXTURE
- 2'X4' RECESSED FIXTURE
- 1'X4' RECESSED FIXTURE
- 2'X2' RECESSED EMERGENCY FIXTURE
- 2'X4' RECESSED EMERGENCY FIXTURE
- 1'X4' RECESSED EMERGENCY FIXTURE
- 2'X2' RECESSED LIGHT FIXTURE WITH EMERGENCY AND NORMAL CIRCUITRY
- 2'X4' RECESSED LIGHT FIXTURE WITH EMERGENCY AND NORMAL CIRCUITRY
- SURFACE MOUNTED OR SUSPENDED FIXTURE
- SURFACE MOUNTED OR SUSPENDED EMERGENCY FIXTURE.
- RECESSED CEILING FIXTURE
- RECESSED EMERGENCY CEILING FIXTURE.
- PENDANT MOUNT FIXTURE
- CEILING MOUNTED EXIT SIGN. PROVIDE CHEVRONS AS INDICATED BY ARROWS.
- EXIT SIGN WITH EMERGENCY LIGHTING
- WALL MOUNTED EXIT SIGN. PROVIDE CHEVRONS AS INDICATED BY ARROWS.
- EMERGENCY LIGHTING.
- WALL MOUNTED FIXTURE
- WALL MOUNTED LINEAR FIXTURE
- WALL MOUNTED EMERGENCY LINEAR FIXTURE
- SITE ARM MOUNT POLE LIGHT FIXTURE
- SITE POLE TOP LIGHT FIXTURE
- SURFACE MOUNTED TRACK AND TRACK LIGHTING FEATURE
- CEILING FAN
- WALLWASH OR SPOT LIGHT FIXTURE
- IN-GRADE MOUNTED FIXTURE

MISCELLANEOUS

- C — CONTRACTOR
- PE — PHOTOCELL
- CEILING MOUNTED JUNCTION BOX
- WALL MOUNTED JUNCTION BOX
- FLEXIBLE CONNECTION TO EQUIPMENT

SWITCHES

- $ — SINGLE-POLE, SINGLE-THROW SWITCH. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.
- 2P$ — DOUBLE-POLE, SINGLE-THROW, 30 AMP SWITCH. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.
- 3$ — THREE-WAY SWITCH. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.
- 3 — LED/FLUROSCENT THREE WAY DIMMER. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.
- LED/FLUROSCENT DIMMER. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.
- M$ — AUTOMATIC WALL SWITCH. SENSORSWITCH #WSD-PDT OR APPROVED EQUAL. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.
- M — AUTOMATIC WALL SWITCH WITH INTEGRAL 0-10V DIMMER. LUTRON #MS-Z101 OR APPROVED EQUAL. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.
- MD2 — PASSIVE INFRARED AND UNTRASONIC DUAL TECHNOLOGY OCCUPANCY SENSOR WITH A 28' RADIAL COVERAGE. CEILING MOUNTED. SENSORSWITCH #CM-PDT-10 OR APPROVED EQUAL.
- PP — POWER PACK MOUNTED ABOVE CEILING. SENSORSWITCH #PP20 OR APPROVED EQUAL.

FIRE ALARM SYSTEM

- F — MANUAL PULL STATION. MOUNT AT 48"A.F.F. TO CENTERLINE OF BOX
- SMOKE DETECTOR
- T — THERMAL DETECTOR
- D R — DUCT SMOKE DETECTOR IN RETURN DUCT
- D S — DUCT SMOKE DETECTOR IN SUPPLY DUCT
- FACP — FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- FS — FLOW SWITCH
- TS — TAMPER SWITCH
- FIRE ALARM HORN AND STROBE MOUNTED ON THE CEILING TO A FLUSH MOUNTED BOX
- F — FIRE ALARM STROBE MOUNTED ON THE CEILING TO A FLUSH MOUNTED BOX

RECEPTACLES

- DUPLEX RECEPTACLE, NEMA 5-20R, MOUNTED 18" A.F.F. TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE
- DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, ONE COVER PLATE, MOUNTED 18" A.F.F. TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE
- DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, ONE COVER PLATE MOUNTED WITH BOTTOM OF BOX 2" ABOVE COUNTER WITH BACKSPLASH, AND 6" ABOVE COUNTER WITHOUT BACKSPLASH. WHERE RECEPTACLE IS SHOWN IN AN AREA WITH NO COUNTER, MOUNT AT 45"A.F.F. TO CENTERLINE OF BOX.
- DUPLEX RECEPTACLE, NEMA 5-20R, MOUNTED WITH BOTTOM OF BOX 2" ABOVE COUNTER WITH BACKSPLASH, AND 6" ABOVE COUNTER WITHOUT BACKSPLASH. WHERE RECEPTACLE IS SHOWN IN AN AREA WITH NO COUNTER, MOUNT AT 45"A.F.F. TO CENTERLINE OF BOX.
- DF — DUPLEX RECEPTACLE, NEMA 5-20R, FOR DRINKING FOUNTAIN FED FROM GFCI BREAKER. MOUNTED IN ACCORDANCE WITH MANUFACTURER'S ROUGH-IN REQUIREMENTS. VERIFY CONNECTION TYPE PRIOR TO BID. PROVIDE PROPER EQUIPMENT FOR CONNECTION TYPE REQUIRED.
- SINGLE RECEPTACLE, NEMA 14-50R, PROVIDE 6' CORD AND MATCHING PLUG WHERE REQUIRED. MOUNTING DETERMINED BY NEC FOR TYPE OF EQUIPMENT BEING CONNECTED.
- SINGLE RECEPTACLE, NEMA 6-30R, MOUNTED 18" A.F.F. TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
- DUPLEX RECEPTACLE, NEMA 5-20R, MOUNTED FLUSH IN CEILING UNLESS NOTED OTHERWISE.

CCTV SYSTEM

- CEILING MOUNTED CAMERA
- WALL MOUNTED CAMERA
- INSIDE CORNER MOUNTED CAMERA
- OUTSIDE CORNER MOUNTED CAMERA
- W — WALL MOUNTED MONITOR
- VM — DESK MOUNTED MONITOR

CONDUIT AND WIRING

- CONDUCTORS IN CONDUIT CONCEALED WITHIN WALL OR CEILING. TIC MARKS INDICATE NUMBER OF CONDUCTORS. THE EQUIPMENT GROUNDING CONDUCTOR IS NOT SHOWN, BUT SHALL BE PROVIDED. SIZE THE EQUIPMENT GROUNDING CONDUCTOR AND THE CONDUIT PER THE NEC. THE ABSENCE OF TIC MARKS SIGNIFIES THAT TWO CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED. FOR EXAMPLE, THE MARKINGS TO THE LEFT SIGNIFY THAT THREE CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED.
- 10 — THE TEXT INSIDE THE ARC INDICATES THE AWG SIZE OF THE CONDUCTORS THAT SHALL BE RUN IN THE CONDUIT. THE ABSENCE OF TEXT SIGNIFIES THAT THE CONDUCTORS SHOULD BE #12 AWG.
- CIRCUITRY RUN IN STRAIGHT LINE SEGMENTS SIGNIFIES EXPOSED SURFACE MOUNTED RACEWAY (SEE SPECIFICATIONS).
- CONDUCTORS IN CONDUIT CONCEALED BELOW GRADE OR FLOOR. TIC MARKS INDICATE NUMBER OF CONDUCTORS. THE EQUIPMENT GROUNDING CONDUCTOR IS NOT SHOWN, BUT SHALL BE PROVIDED. SIZE THE EQUIPMENT GROUNDING CONDUCTOR AND THE CONDUIT PER THE NEC. THE ABSENCE OF TIC MARKS SIGNIFIES THAT TWO CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED. THE MARKINGS TO THE LEFT SIGNIFY THAT THREE CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED.
- LA-1 — HOMERUN TO PANELBOARD. ARC DENOTES CONCEALED CIRCUITRY. TEXT DENOTES PANELBOEARD NAME WITH CIRCUIT NUMBER. DEVICES HAVING CIRCUIT NUMBERS LOCATED BESIDE THEM MAY NOT SHOW THE CIRCUIT NUMBERS AT THE HOMERUN ARROWS.
- LA-1 — PARTIAL HOMERUN TO PANELBOARD. COMBINE ALL PARTIAL HOMERUNS THAT ARE ON THE SAME CIRCUIT NUMBERS AT THE HOMERUN ARROWS.
- LOW VOLTAGE CONDUCTORS USED FOR MOTION DETECTOR CIRCUITRY. SEE MANUFACTURER'S RECOMMENDATIONS FOR CONDUCTOR REQUIREMENTS.

VOLTAGE DROP CHART FOR 20A, 1Φ CIRCUITS

VOLTAGE	CIRCUIT LENGTH	CONDUCTOR SIZE (AWG)
120	< 90'	#12
120	> 90'	#10
120	> 145'	#8
120	> 230'	#6
277	< 200'	#12
277	> 200'	#10
277	> 325'	#8
277	> 525'	#6

VOLTAGE DROP CHART NOTES:

1. CIRCUIT SIZES INDICATED ON THE DRAWINGS ARE MINIMUM REQUIREMENTS. REFER TO THIS CHART FOR UPSIZING CONDUCTORS AS NEEDED.
2. DO NOT CONNECT CONDUCTORS LARGER THAN #10 DIRECTLY TO A RECEPTACLE OR A SWITCH. PROVIDE A JUNCTION BOX TO DOWNSIZE THE CONDUCTOR TO #12 AT THE DEVICE.
3. FOR CIRCUITS LONGER THAN THOSE LISTED ABOVE, CONSULT WITH THE ENGINEER FOR CONDUCTOR SIZES.

COMMUNICATIONS

- COMBINATION TELEPHONE/DATA OUTLET MOUNTED 18" A.F.F. TO CENTERLINE BOX UNLESS NOTED OTHERWISE.
- COMBINATION TELEPHONE/DATA OUTLET MOUNTED WITH BOTTOM OF BOX 2" ABOVE COUNTER WITH BACKSPLASH, AND 6" ABOVE COUNTER WITHOUT BACKSPLASH.
- TELEPHONE OUTLET MOUNTED 18" A.F.F. TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
- TELEPHONE OUTLET MOUNTED WITH BOTTOM OF BOX 2" ABOVE COUNTER WITH BACKSPLASH, AND 6" ABOVE COUNTER WITHOUT BACKSPLASH.
- DATA OUTLET MOUNTED 18" A.F.F. TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
- DATA OUTLET MOUNTED WITH BOTTOM OF BOX 2" ABOVE COUNTER WITH BACKSPLASH, AND 6" ABOVE COUNTER WITHOUT BACKSPLASH.
- COMBINATION TELEPHONE/DATA OUTLET MOUNTED IN A FLOOR BOX.
- DUPLEX RECEPTACLE, NEMA 5-20R AND A COMBINATION TELEPHONE/DATA OUTLET MOUNTED IN A FLOOR BOX.
- DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R AND A COMBINATION TELEPHONE/DATA OUTLET MOUNTED IN A FLOOR BOX.
- TELEVISION CABLE OUTLET MOUNTED 18" A.F.F. TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
- HDMI — HDMI CONNECTION. PROVIDE A SINGLE GANG BOX WITH A 1"C. STUBBED ABOVE THE ACCESSIBLE CEILING.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	PART NUMBER	LAMPS	MOUNTING	REMARKS
A	LITHONIA	2BLT2-40L-ADSM-MVOLT-EZ1-LP840-DGA22	LED, 39W 4209 LUMENS	RECESSED	WITH DRYWALL GRID ADAPTER
AE	LITHONIA	2BLT2-40L-ADSM-MVOLT-EZ1-LP840-EL14L-DGA22	LED, 39W 4209 LUMENS	RECESSED	WITH DRYWALL GRID ADAPTER AND 120V EMERGENCY BATTERY PACK.
B	LITHONIA	ZL1N-L48-SMR-3000LM-FST-MVOLT-40K-80CRI-WH	LED, 25W 3243 LUMENS	SURFACE	
BE	LITHONIA	ZL1N-L48-SMR-3000LM-FST-MVOLT-40K-80CRI-E7W-WH	LED, 25W 3243 LUMENS	SURFACE	WITH 120V EMERGENCY BATTERY PACK
C	LITHONIA	FMVCCL-24IN-MVOLT-40K-90CRI-BN	LED, 26W 1300 LUMENS	SURFACE	
D	LITHONIA	UCEL-36IN-40K-90CRI--WH	LED, 14.8W 1162 LUMENS	UNDER CABINET	
F	LITHONIA	LDN6-40/10-LW6-AR-LSS-MVOLT-EZ10	LED,12.75W 1082 LUMENS	RECESSED	
G	LITHONIA	WL4-40L-EZ1-LF840-MSD7-EL14L	LED, 39.5W 4124 LUMENS	WALL	WITH 120V EMERGENCY BATTERY PACK
H1	LITHONIA	LDN6-40/15-L06AR-LSS-MVOLT-EZ10	LED - 20.5W 1606 LUMENS	RECESSED	
H1E	LITHONIA	LDN6-40/15-L06AR-LSS-MVOLT-EZ10-EL	LED - 20.5W 1606 LUMENS	RECESSED	WITH 120V EMERGENCY BATTERY PACK
H2	LITHONIA	LDN6-40/15-L06AR-LSS-MVOLT-EZ10-WL	LED - 20.5W 1606 LUMENS	RECESSED	
J	KENALL	CSEFL 14-2-54-DCC-1-DV-PAF-H-U	(2) 54W, T5HO	RECESSED	
JE	KENALL	CSEFL 14-2-54-DCC-1-DV-PAF-H-U-EL	(2) 54W, T5HO	RECESSED	WITH 120V EMERGENCY BATTERY PACK
K	KENALL	MAUCSL-I-**-48-RS-120	(2) 28W, T5	UNDER CABINET	** COLOR BY ARCHITECT
L	LITHONIA	VTL4-48L-ADP-EZ1-LP840-DGA14	LED - 47W 4641 LUMENS	RECESSED	1X4 RECESSED FIXTURE WITH FLANGE KIT
LE	LITHONIA	VTL4-48L-ADP-EZ1-LP840-DGA14-EL14	LED - 47W 4641 LUMENS	RECESSED	1X4 RECESSED FIXTURE WITH FLANGE KIT. EITH 120V EMERGENCY BATTERY PACK.
M	LITHONIA	LDN6-40/20-L06AR-LSS-MVOLT-EZ10	LED - 35W 2143 LUMENS	RECESSED	
ME	LITHONIA	LDN6-40/20-L06AR-LSS-MVOLT-EZ10	LED - 35W 2143 LUMENS	RECESSED	WITH EMERGENCY BATTERY PACK
N	LITHONIA	ZL1N-L24-SMR-2500LM-FST-MVOLT-40K-80CRI-WH	LED, 19W 2315 LUMENS	SURFACE	
P	RIG-A-LIGHT	XP-50L-4-2L-U-50	LED - 46W LUMENS	SURFACE	
SA	LITHONIA	DSX1 LED-60C-700-40K-T4M-MVOLT-SPA-HS-DBLXD	LED - 131W 16238 LUMENS	POLE	POLE: SSS254G
SB	LITHONIA	LDN6-40/10-L06-AR-LS-MVOLT-EZ10-EL	LED, 12.75W 1082 LUMENS	RECESSED	RECESSED CAN
SC	LITHONIA	WST LED-P2-40K-VW-MVOLT-E7WH	LED, 25W 3512 LUMENS	WALL	ELECTRICAL WALL SCONCE
SD	FEISS	OL5411BK-LED	LED, 14W 1000 LUMENS	PENDANT	
X	LITHONIA	LQM-S-W-3-R-120/277-EL N	LED	UNIVERSAL	WITH 120V EMERGENCY BATTERY PACK
Y	CIRCA LIGHTING	TOB 5011AN-NP	LED - (2)15W 1650 LUMENS	PENDANT	FINISH - AN LIGHT BULB PART NUMBER:L15A19D2541K
Z	TECH LIGHTING	L-W-S	LED - (2)9W 850 LUMENS	SEMIRECESSED	LIGHT BULB PART NUMBER: L9A19D2541K
AA	CIRCA LIGHTING	BBL-2027BZ-L	LED - 9W 850 LUMENS	WALL	FINISH - PWT LIGHT BULB PART NUMBER: LED5E12B1130K

GEAR

- ?/?/? F-? — FUSED DISCONNECT SWITCH. TEXT INDICATES AMPACITY/NUMBER OF POLES/ENCLOSURE TYPE; F-(RATING OF FUSES)
- ?/?/? — NON-FUSED DISCONNECT SWITCH. TEXT INDICATES AMPACITY/NUMBER OF POLES/ENCLOSURE TYPE.
- PANELBOARD
- W/E $ — LOCAL DISCONNECT PROVIDED WITH EQUIPMENT
- W/E — LOCAL DISCONNECT PROVIDED WITH EQUIPMENT

DAMMON ENGINEERING, INC.
LOUISIANA & MISSISSIPPI
www.dammonengineering.com
info@dammonengineering.com
PH: 985.649.5832
Chief Engineer: Brian Mistich, PE
554 Old Spanish Trail
Slidell, LA 70458

REVISIONS

#	DESCRIPTION	DATE

SEAL: STATE OF LOUISIANA — BRIAN A. MISTICH — License No. 30187 — PROFESSIONAL ENGINEER — BAM

NEW MEDICAL OFFICE
DIANA OAK HARBOR REAL ESTATE LLC
540 OAK HARBOR BLVD
SLIDELL, LA 70458

JOB No:	2513	DATE:	05-16-2025
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SHEET TITLE:
ELECTRICAL LEGEND

DRAWING NUMBER:
E6