

ONE LINE DIAGRAM
SCALE: N.T.S.

PANEL SCHEDULE

PANEL LOCATION: NEW MDP BUILDING MALL EXTERIOR NEAR A/C UNITS
FEEDER SOURCE: CLESD

VOLTAGE ENCLOSURE: 208/120V, 1000A, 80, 4N, MLD SURFACE MOUNTED A/C EQUIPMENT GND BAR 80 0 TYPE 80 LOAD CENTER

CKT NO	THHN WIRE SIZE	LOAD DESCRIPTION	LOCATION	BREAKER AMP	POLE	LOAD (KVA)	AS	BS	CS	DS	BREAKER AMP	POLE	LOAD DESCRIPTION	LOCATION	THHN WIRE SIZE	CKT NO
1																3
3		EXISTING MDP		800	3								NEW PANEL LPD			4
5																5
4		EXISTING PANEL LPA		225	3											10
11																12

SOLID NEUTRAL NEUTRAL WIRE (N)

TOTAL CONNECTED LOAD (KVA) = 444

GROUND BUS GROUND WIRE (G)

AS = 444 BS = 444 CS = 444 DS = 444

PANEL SCHEDULES
SCALE: N.T.S.

PANEL SCHEDULE

PANEL LOCATION: LPD
FEEDER SOURCE: MDP

VOLTAGE ENCLOSURE: 208/120V, 400A, 80, 4N, MLD FLUSH MOUNTED A/C EQUIPMENT GND BAR 80 0 TYPE 80 LOAD CENTER

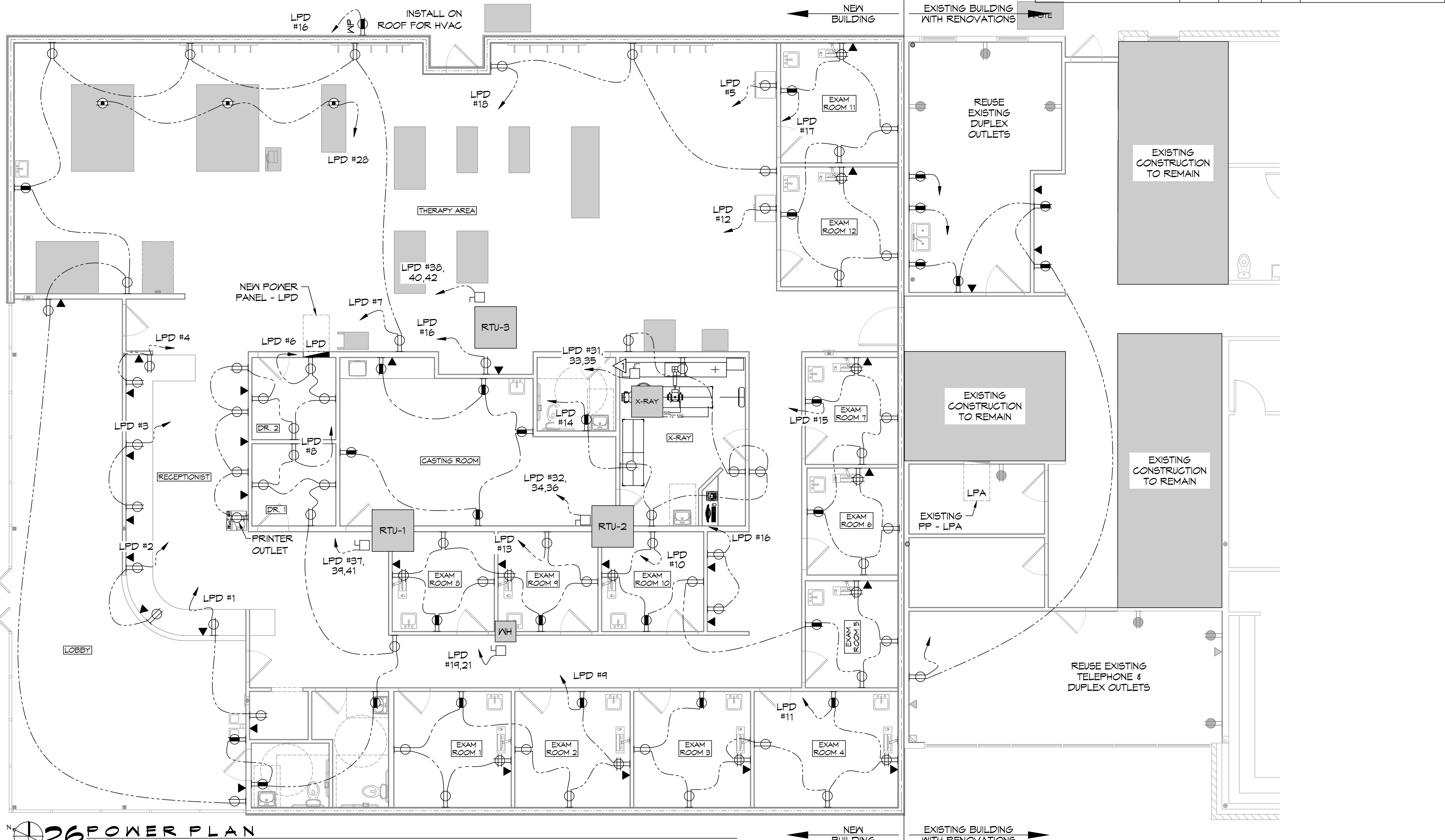
CKT NO	THHN WIRE SIZE	LOAD DESCRIPTION	LOCATION	BREAKER AMP	POLE	LOAD (KVA)	AS	BS	CS	DS	BREAKER AMP	POLE	LOAD DESCRIPTION	LOCATION	THHN WIRE SIZE	CKT NO
1	12	OUTLETS		20	1	0.2					0.4	1	20	OUTLETS	12	2
3	12	OUTLETS		20	1	0.4					0.4	1	20	OUTLETS	12	4
5	12	PHYSICAL THERAPY HOT PAKS		20	1	1.9					1.4	1	20	OUTLETS	12	6
7	12	OUTLETS		20	1	1.4					1.4	1	20	OUTLETS	12	8
9	12	OUTLETS		20	1	1.4					1.4	1	20	OUTLETS	12	10
11	12	OUTLETS		20	1	1.4					0.9	1	20	PHYSICAL THERAPY ICE PAKS	12	12
13	12	OUTLETS		20	1	1.4					1.4	1	20	OUTLETS	12	14
15	12	OUTLETS		20	1	1.4					0.6	1	20	OUTLETS	12	16
17	12	OUTLETS		20	1	1.4					0.9	1	20	OUTLETS	12	18
19	12	OUTLETS		20	1	1.4					1	20		SPARE	20	20
21	10	WATER HEATER		30	1	2.3										23
23	#12	FRONT & REAR DOORS		20	1	1.4					1.3	1	20	LIGHTS	12	24
25	12	LIGHTS		20	1	1.1					1.3	1	20	LIGHTS	12	26
27		SPARE		20	1						0.9	1	20	PHYSICAL THERAPY EXERCISE TABLES	12	28
29		SPARE		20	1						1	20		SPARE	20	30
31																32
33		X-RAY POWER PANEL		125	3	13.3					3.5	3	40	HATCH BREAKER TO UNIT INSTALLED		34
35											0.4					36
37											0.4					38
39		HATCH BREAKER TO UNIT INSTALLED		80	3	6.4					6.4	3	60	HATCH BREAKER TO UNIT INSTALLED		40
41											6.4					42

SOLID NEUTRAL NEUTRAL WIRE (N)

TOTAL CONNECTED LOAD (KVA) = 10.0

GROUND BUS GROUND WIRE (G)

AS = 40.9 BS = 30.2 CS = 34.3 DS = 34.3



26 POWER PLAN
SCALE: 3/16"=1'-0"

GENERAL POWER NOTES

- ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE GOVERNING ELECTRICAL CODE AND ALL OTHER INSPECTION DEPARTMENTS HAVING JURISDICTION. OBTAIN CERTIFICATES OF APPROVAL WHERE REQUIRED. ELECTRICAL CONTRACTOR SHALL VERIFY ALL WIRE AND CONDUIT SIZES FOR MECHANICAL EQUIPMENT TO BE INSTALLED.
- ALL MATERIALS FURNISHED SHALL BE NEW AND SHALL BE U.L. LISTED.
- THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION OF ALL LIGHTING FIXTURES, RECEPTACLES AND TELEPHONE OUTLETS, ETC. SHALL BE DETERMINED BY ACTUAL CONDITIONS IN THE FIELD.
- PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL COORDINATE INCOMING ELECTRICAL SERVICE WITH UTILITY COMPANY AND INCLUDE IN HIS BID ALL CHARGES AND FEES INCURRED IN MODIFICATIONS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE GENERAL CONTRACTOR.
- ELECTRICAL CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED CEILINGS, HUNG CEILINGS, PLASTER, PARTITIONS, ETC. AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT, AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS.
- PERFORM TEST REQUIRED BY THE OWNER OR THE ENGINEER IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARD OF THE IEEE AND THE NATIONAL ELECTRICAL CODE.
- MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION. MINIMUM SIZE CONDUIT SHALL BE 3/4" ELECTRICAL METALLIC TUBING (EMT) FOR INTERIOR USE, 3/4" SCHEDULE 80 PVC FOR EXTERIOR USE ABOVE GRADE AND 1" SCHEDULE 40 PVC FOR EXTERIOR USE BELOW GRADE, BURIED A MINIMUM OF 18" FOR NON-VEHICULAR TRAFFIC AREAS AND 36" IN VEHICULAR TRAFFIC AREAS. EMT SHALL BE USED WITH METAL STUD CONSTRUCTION AND ALL ASSEMBLY OCCUPANCIES. USE NMC IN WOOD CONSTRUCTION. 6 FT LENGTH MC CABLE IS ALLOWED ABOVE DROPPED CEILING. INTERIOR FITTINGS SHALL BE CAST WHERE EXPOSED ON WALLS, AND EXTERIOR FITTINGS SHALL BE CAST BOXES WITH NEMA 3R COVER(S).
- CONTRACTOR SHALL INSTALL WIRING, CIRCUIT BREAKERS AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
- ALL 120V RUNS LONGER THAN 60 FEET SHALL BE #10 AWG AND 2TTV RUNS LONGER THAN 150 FEET SHALL BE #10 AWG UNLESS NOTED OTHERWISE.
- INSTALL GROUND FAULT RECEPTACLES AT RECEPTACLE LOCATIONS WITHIN 5' OF SINKS OR LAVATORIES, AND AT EXTERIOR LOCATIONS. EXTERIOR RECEPTACLES SHALL ALSO BE WATERPROOF. ALL RECEPTACLES IN THE KITCHEN AREA SHALL HAVE GROUND FAULT PROTECTION.
- BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:250-63, NFPA 250-23, 250-11 & 250-12.
- GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-230.
- FUSES SHALL BE ITT CLASS K5, 250 VOLT, 200,000 AMP INTERRUPTING CAP.
- PROVIDE SERVICES OF A FIRE/SMOKE DETECTION AND ALARM COMPANY TO DESIGN AND INSTALL ALARM SYSTEM TO MEET REQUIREMENTS OF THE STATE FIRE MARSHALL AND THE FIRE DISTRICT.
- EXTERIOR LIGHTING SHALL BE SHADED OR INWARDLY DIRECTED IN SUCH A MANNER SO THAT NO DIRECT LIGHTING OR GLARE IS CAST BEYOND THE PROPERTY LINE. THE INTENSITY OF SUCH LIGHTING SHALL NOT EXCEED ONE FOOT CANDLE AS MEASURED AT THE ABUTTING PROPERTY LINE.
- ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATING FIRE PARTITIONS SHALL BE FIRE CAULKED. PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.
- VERIFY ELECTRICAL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.
- ALL BRANCH CIRCUITS SERVING PATIENT CARE AREAS SHALL PROVIDE AN EFFECTIVE GROUND-FAULT CURRENT PATH BY INSTALLATION IN A METAL RACEWAY SYSTEM OR A MEDICAL GRADE MC CABLE (NEC ART. 517.13(A & B)).

POWER LEGEND

- STANDARD 120V DUPLEX RECEPTACLE, 15' AFF (UNLESS OTHERWISE NOTED)
- FUSED DISCONNECT, FUSE PER MANUFACTURER'S RECOMMENDATIONS.
- DATA OUTLET
- EXISTING TELEPHONE OUTLET
- WATER HEATER - ATTIC
- 125A/3P ENCLOSED FUSIBLE DISCONNECT
- WEATHER-PROOF GFCI DUPLEX RECEPTACLE MOUNTED @ 30" AFF (UNLESS OTHERWISE NOTED)
- GFCI DUPLEX RECEPTACLE
- FLOOR MOUNTED RECEPTACLE
- STANDARD 120V QUAD RECEPTACLE @ 15' AFF (UNLESS OTHERWISE NOTED)
- EXISTING DUPLEX OUTLET
- HOME RUN

EQUIPMENT LIST

MK	EQUIPMENT	NOTES
A	MATRIX	
B	EXERCISE TABLE	
C	WEB SLIDE WORKOUT AREA	
D	E-STM CART	
E	PHYSICAL THERAPY TABLE	
F	ELLIPTICAL	
G	BIKE	
H	NURSTEP	
J	UBE	
K	SHUTTLE	
L	ICE PACK FREEZER	
M	HOT PAKS	
N	REBOUNDER	
O	COUNTER FOR HOT/COLD PKS	
P	STORAGE RACK	

DAMMON ENGINEERING, INC.
LOUISIANA & MISSISSIPPI

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1121 LA HWY 21
COVINGTON, LA 70439
JOB No: 2443
DATE: 6-15-2022
DRAWN BY: DDPD
CHECKED BY: [Signature]

REVISIONS

#	DESCRIPTION	DATE
1	Revised HVAC Placement	3/9/2022
2	Added Exam Rooms 12 & 13	4/6/2022
3	Revised Exam Rm's & X-Ray Layout	7/7/2022



NEW ADDITION

CONTASMOB

1121 LA HWY 21
COVINGTON, LA 70439
JOB No: 2443
DATE: 6-15-2022
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SHEET TITLE:
POWER PLAN AND PANEL SCHEDULE

DRAWING NUMBER:
E101

SHEET No: 16 of 19