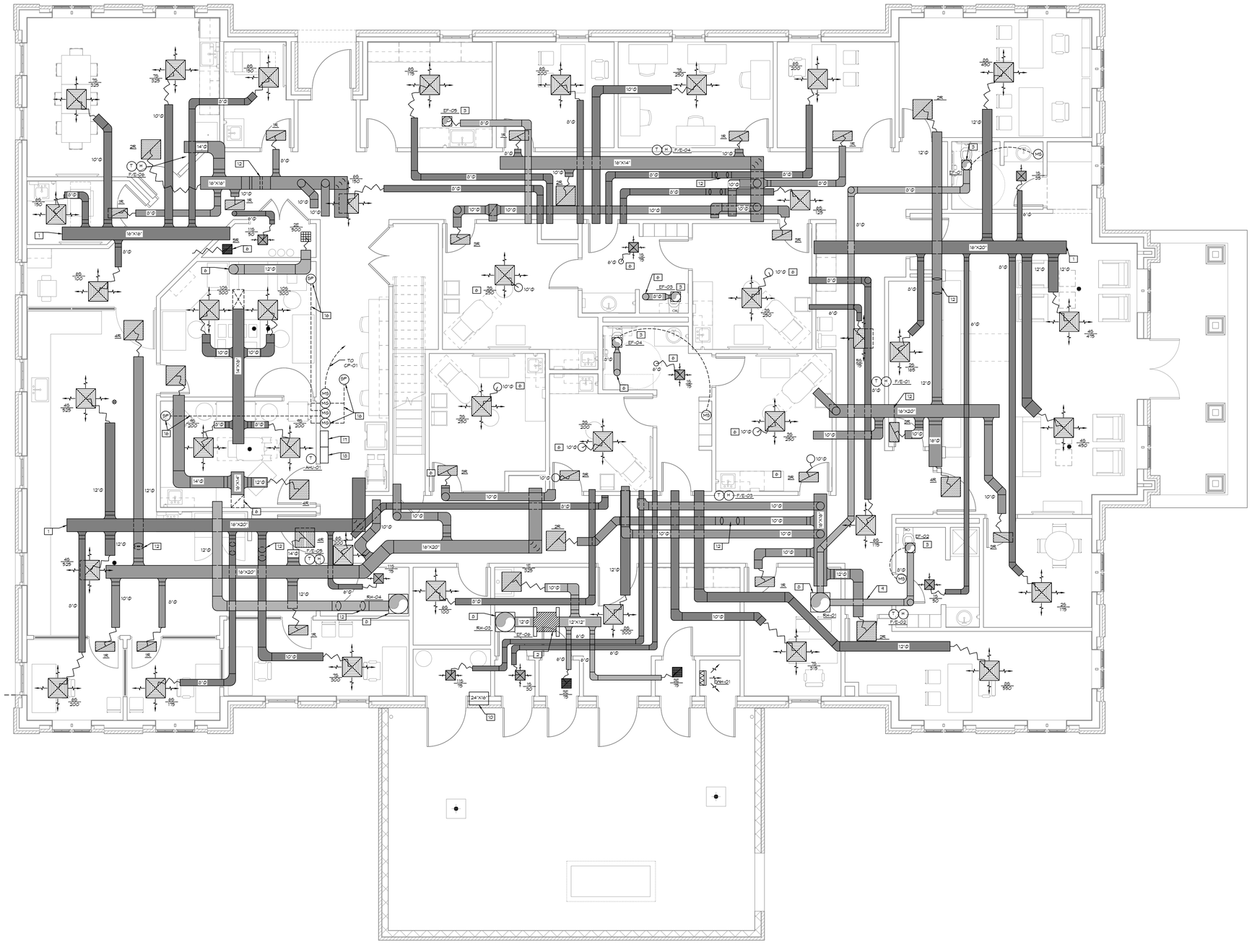

1 MECHANICAL PLAN FIRST FLOOR
SCALE: 3/16" = 1'-0"

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

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#	DESCRIPTION	REVISIONS	DATE

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SLIDELL, LA 70458

JOB No:	2513	DATE:	05-16-2025
DRAWN BY:	CKD	CHECKED BY:	BAM

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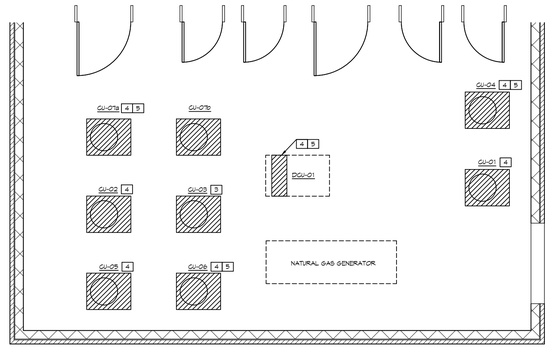
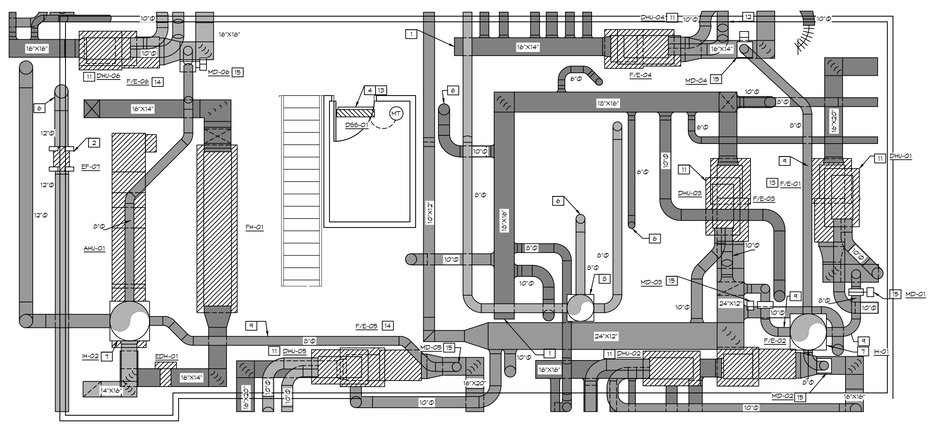
SHEET TITLE:
MECHANICAL PLAN FIRST FLOOR

DRAWING NUMBER:
M1

SHEET No: 37 of 52



2 MECHANICAL PLAN OUTDOOR
SCALE: 3/16" = 1'-0"



3 MECHANICAL PLAN MEZZANINE
SCALE: 3/16" = 1'-0"

SPECIFIC HVAC NOTES

1. CONTRACTOR SHALL EXTEND SUPPLY AIR TRUNK DUCT MINIMUM 24" BEYOND LAST BRANCH DUCT TAKEOFF.
2. INLINE FAN MOUNTED ABOVE CEILING. SEE DETAIL FOR CLARITY.
3. CEILING MOUNTED EXHAUST FAN. SEE DETAIL FOR CLARITY.
4. PROVIDE AND INSTALL MANUFACTURER'S RECOMMENDED SIZE AND CONFIGURATION REFRIGERANT PIPING ROUTED CONCEALED BETWEEN INDOOR EVAPORATOR COIL AND MATCHING CONDENSING UNIT.
5. TYPICAL CONDENSING UNIT MOUNTED ON CONCRETE PAD. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCES.
6. TYPICAL DUCTWORK ROUTED UP/DOWN TO FLOOR ABOVE/BELOW. SIZE AS INDICATED ON PLANS. PROVIDE BOXOUTS IN FLOOR SLABS OF ADEQUATE SIZE TO ACCOMMODATE DUCTWORK INSULATION REQUIREMENTS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR.
7. OUTSIDE AIR DUCT ROUTED UP THROUGH ROOF TO INTAKE HOOD. SEE SCHEDULE AND DETAIL FOR MORE INFORMATION.
8. EXHAUST AIR DUCT ROUTED UP THROUGH ROOF TO RELIEF CAP. SEE SCHEDULE AND DETAIL FOR MORE INFORMATION.
9. TYPICAL OUTSIDE AIR INTAKE DUCT ROUTED FROM ROOF INTAKE HOOD TO HVAC EQUIPMENT AS INDICATED
10. TWO (2) EACH VENTILATION LOUVERS (SIZE AS INDICATED) EQUAL TO GREENHECK MODEL ESD-403 WITH FULL SIZE SLEEVE THROUGH WALL. PROVIDE WITH SCREEN AND KYNAR FINISH. MOUNT ONE LOUVER WITH BOTTOM AT ±12" A.F.F. AND ONE WITH BOTTOM OF LOUVER AT ±8'-0" A.F.F. VERIFY COLOR AND LOCATION WITH ARCHITECT.
11. DUCTED DEHUMIDIFIER MOUNTED HIGH IN SPACE. SEE DETAIL FOR CLARITY.
12. ROLL DUCTWORK UP/DOWN UTILIZING MAXIMUM 45 DEGREE ELBOWS AS REQUIRED TO AVOID CONFLICT.
13. TYPICAL WALL MOUNTED DUCTLESS HEAT PUMP UNIT MOUNTED HIGH ON WALL OVER DOOR. SEE DETAIL FOR CLARITY.
14. TYPICAL FURNACE/EVAPORATOR. SEE DETAIL.
15. PROVIDE TWO POSITION MOTORIZED DAMPER WITH 24V. ACTUATOR. INTERLOCK DAMPER ACTUATOR TO OPEN UPON ENERGIZATION OF BLOWER MOTOR.
16. INSTALL MAGNEHELIC GAUGES (0-0.25"W.C.) AS INDICATED ON WALL IN CORRIDOR. INSTALL IN DOOR OF CONTROL PANEL ENCLOSURE FOR NEAT APPEARANCE AND TO ALLOW ACCESS TO SAMPLING TUBE CONNECTIONS. THREE (3) REQUIRED. COORDINATE LOCATION WITH OTHER WALL INSTALLATION THIS AREA. ADVANCED LAB 135 IS POSITIVE WITH RESPECT TO ALL ADJACENT ROOMS. ADVANCED PROCEDURE IS NEGATIVE WITH RESPECT TO ADVANCED LAB BUT POSITIVE WITH RESPECT TO CORRIDOR. INSTALL SAMPLING PORTS IN CEILING AND CONNECT TO BOTH HIGH AND LOW PRESSURE PORTS WITH INTERCONNECTING TUBING. CONCEAL TUBING IN WALL AT MAGNEHELIC GAUGES.
17. INSTALL HVAC ALARM ANNUCIATION PANEL/LIGHT FOR AHU-01 ON WALL. COORDINATE LOCATION WITH OTHER WALL INSTALLATION THIS AREA.
18. INSTALL FILTER HOUSING UV LAMP ALARM/MONITORING PANEL ON WALL. COORDINATE LOCATION WITH OTHER WALL INSTALLATION THIS AREA.

GENERAL HVAC NOTES

1. CONCEALED DUCTWORK TO BE GALVANIZED SHEET METAL WRAPED WITH FIBROUS GLASS DUCT WRAP WITH FSK VAPOR BARRIER, MIN R-6. INSTALLED PER SMACNA STANDARDS. DUCT WORK IMMEDIATELY DOWNSTREAM FROM AHU SHALL BE LINED FOR SOUND ATTENUATION.
2. EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED PER SMACNA STANDARDS.
3. ROUND FLEXIBLE DUCT TO BE UL-181, CLASS 1, AIR DUCT MATERIALS.
4. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
5. IN ALL SYSTEMS OVER 2000 CFM AND LESS THAN 15,000 CFM, SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72E IN THE RETURN DUCT DOWNSTREAM OF THE AIR HANDLING UNIT AND ALL FILTERS TO AUTOMATICALLY STOP THE FAN.
6. PROVIDE UL LISTED 125 °F FIRESTAT IN RETURN AIR OF EACH SYSTEM UNDER 2000 CFM TO SHUT DOWN THE FAN IN THE EVENT OF FIRE.
7. PROVIDE UL RATED FIRE DAMPERS WHERE REQUIRED AT ALL DUCT PENETRATIONS OF FIRE-RATED ASSEMBLIES AND WHERE REQUIRED BY CODE, INCLUDING OUTSIDE AIR INTAKES AND EXHAUST FANS.
8. CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
9. ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOWS PER PLANS.
10. ALL THERMOSTATS TO BE AUTOMATIC CHANGEOVER WITH HEAT SWITCH.
11. EXHAUST FAN SHALL BE CONTROLLED BY A SWITCH ON THE WALL IN THE SAME LOCATION AS LIGHT SWITCH(S). PROVIDE BACK DRAFT DAMPER.
12. PROVIDE AND INSTALL WATER PROOF GRILLE VENT IN PROPER ROOF LOCATION FOR PLUMBING FIXTURE EXHAUST.
13. ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS AT THE REGISTER.
14. LOCATE OUTDOOR UNITS AS SHOWN ON ARCHITECTURAL DRAWINGS.
15. REFRIGERANT LINES SHALL BE SIZED BY UNIT MANUFACTURER AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
16. FRESH AIR SHALL BE SUPPLIED TO EACH AIR HANDLER THROUGH EXTERIOR WALL DUCT SUPPLIED WITH A CONTROL DAMPER.
17. ALL ELECTRICAL, MECHANICAL, AND PLUMBING PENETRATING FIRE WALLS 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-E8-14).
18. ALL MECHANICAL SYMBOLS ARE DRAWN DIAGRAMMATICALLY, CONTRACTOR TO VERIFY WITH OWNER LOCATIONS OF VENTS, DAMPERS, REGISTERS, ETC.
19. FLEXIBLE DUCTWORK LENGTH NOT TO EXCEED 12'-0".
20. REFER TO REFLECTED CEILING PLAN FOR FINAL GRILLE AND DIFFUSER LOCATIONS AND COORDINATE AS REQUIRED.
21. FINAL LOCATION OF TEMPERATURE CONTROLS TO BE COORDINATED WITH OWNER AT JOB SITE.
22. PROVIDE AND INSTALL SMOKE DETECTORS AS APPROVED BY LOCAL AHJS. PLACE NEAR R/A AND S/A OPENINGS OF AHU AND PROVIDE, WITH ACCESS PANEL, WIRING BY ELECTRICAL CONTRACTOR.
23. FRESH AIR INTAKES ARE REQUIRED TO HAVE MOTORIZED OR GRAVITY DAMPERS TO SHUT OFF WHEN SYSTEM IS NOT RUNNING.
24. PROVIDE BIRD SCREENS AT ALL EXTERIOR MECHANICAL PENETRATIONS.
25. COORDINATE WALL MOUNTED THERMOSTAT LOCATIONS WITH ALL OWNER FURNISHED ITEMS EITHER WALL MOUNTED OR FLOOR MOUNTED AGAINST PARTITIONS. REFER TO ARCHITECTURAL DRAWINGS.
26. PROVIDE MIN 18 GA GALVANIZED SHEET METAL TO BLANK-OFF GABLE VENTS WHERE INTAKE/EXHAUST DUCTS OCCUR.

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STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

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JOB No:	2513
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DRAWN BY:	CKD
CHECKED BY:	BAM

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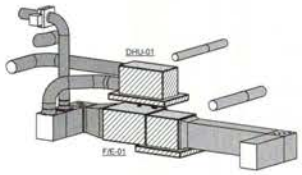
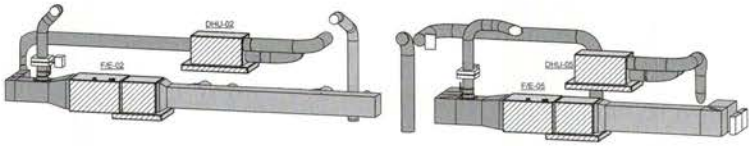
SHEET TITLE:
MECHANICAL PLAN, MEZZANINE

DRAWING NUMBER:
M1.1

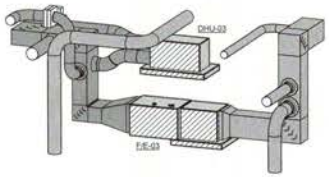
SHEET No: 38 of 52



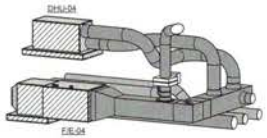
1 M2.0 3D View at F/E-01



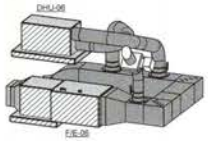
2 M2.0 3D View at F/E-02-05



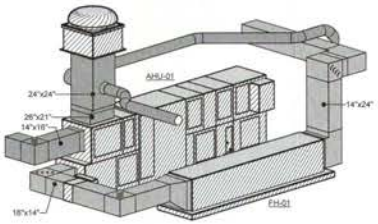
3 M2.0 3D View at F/E-03



4 M2.0 3D View at F/E-04



5 M2.0 3D View at F/E-06



6 M2.0 3D View at FH-01 and AHU-01

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JOB No:	2813	DATE:	05-16-2025
DRAWN BY:	CJD	CHECKED BY:	BAM

SHEET TITLE:
MECHANICAL SECTIONS

DRAWING NUMBER:
M2

SHEET No: 34 of 52

AIR HANDLING UNIT

MARK	TOTAL DESIGN CFM	EXT. S.P. IN. W.G.	OUTSIDE AIR C.F.M. OCCUPIED MIN.	OUTSIDE AIR C.F.M. OCCUPIED MAX.	OUTSIDE AIR C.F.M. UNOCCUPIED MIN.	FAN DATA FAN QTY.	FAN DATA DRIVE TYPE	FAN DATA FAN HP	ELECTRICAL DATA ELECTRICAL SERVICE	ELECTRICAL DATA DESICCANT WHEEL SERVICE	ELECTRICAL DATA UVC EMITTER SERVICE
AHU-01	1,000	3.25	300	300	300	1	DIRECT	3	208V.,3ph	208V.,1ph	120V.,1ph

MARK	COOLING CAPACITY TOTAL MBH	SENS. MBH	E.A.T. °F D.B.	E.A.T. °F W.B.	L.A.T. °F D.B.	L.A.T. °F W.B.	MAX. A.P.D. IN. W.G.	MAX. COIL F.V., F.P.M.	MIN. ROWS	MAX. FIN SPACING	REFRIGERANT TYPE	NUMBER OF CIRCUITS
AHU-01	50.0	30.0	78.2	69.3	53.0	52.8	0.40	400	8	172	R-410A	2

MARK	DESICCANT WHEEL PERFORMANCE E.A.T. °F DB	E.A.T. °F WB	L.A.T. °F DB	L.A.T. °F HR	MAX. A.P.D. IN. W.G.
AHU-01	83.0	72.0	58.6	48.6	1.5

MARK	PRE-FILTERS FUNCTION	TYPE	DEPTH (INCHES)	MERV RATING	INITIAL A.P.D. (IN. W.G.)	D.F.A. (IN. W.G.)	MAX. F.V. (FT/MIN.)	FINAL FILTERS FUNCTION	TYPE	DEPTH (INCHES)	MERV RATING	INITIAL A.P.D. (IN. W.G.)	D.F.A. (IN. W.G.)	MAX. F.V. (FT/MIN.)	BASIS OF DESIGN
AHU-01	PRE	DISP.	4	8	0.25	0.35	450	FINAL	DISP.	12	15	0.35	0.5	450	TRANE PERFORMANCE CLIMATE CHANGER WITH CDQ DESICCANT WHEEL

COMPARABLE PRODUCTS:
TRANE, YORK, McQUAY

GENERAL NOTES:

1. ALL RATINGS ARE AT SPECIFIED DESIGN DAY, CFM AND EXTERNAL STATIC PRESSURE CONDITIONS.
2. SEE DETAILS AND SCHEMATICS FOR ADDITIONAL INFORMATION.
3. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
4. SEE VARIABLE FREQUENCY DRIVE SCHEDULE FOR MORE INFORMATION.
5. ALL ACCESS DOORS SHALL BE CONFIGURED TO BE HELD CLOSED AGAINST NORMAL OPERATING PRESSURES. (I.E. OPEN INWARD ON POSITIVE PRESSURE AND OUTWARD ON NEGATIVE PRESSURE.

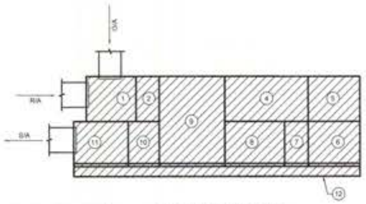
FEATURES/ACCESSORIES:

1. PROVIDE PREMIUM EFFICIENCY MOTORS RATED FOR INVERTER DUTY.
2. FOR UNITS WITH VARIABLE SPEED DRIVES, PROVIDE SUBMITTAL DATA FOR BOTH THE OPERATING AND DESIGN TOTAL STATIC PRESSURE. BELTS/PULLEYS TO BE PROVIDED BASED UPON DESIGN TOTAL STATIC PRESSURE.
3. PROVIDE STAINLESS STEEL SLOPED DRAIN PANS FOR COOLING COILS.

ROOF HOOD SCHEDULE

MARK	NECK SIZE	MAX. A.P.D. IN.W.G.	CFM	BASIS OF DESIGN	FEATURES/ ACCESSORIES [1]
RH-01	8"x8"	0.05	200	GREENHECK MODEL GRSR	1, 2
RH-02	12"x12"	0.05	400	GREENHECK MODEL GRSR	1, 2
RH-03	12"x12"	0.05	475	GREENHECK MODEL GRSR	1, 2
RH-04	12"x12"	0.05	500	GREENHECK MODEL GRSR	1, 2
IH-01	18"x18"	0.035	775	GREENHECK MODEL GRSI	1, 2
IH-02	24"x24"	0.035	1,200	GREENHECK MODEL GRSI	1, 2

[1] FEATURES/ACCESSORIES:
1. BIRDSCREEN
2. PROVIDE FACTORY KYNAR FINISH (COLOR SELECTION BY ARCHITECT)



AHU-01 SCHEMATIC

MODULE DESCRIPTION:
1. AIR MIXING/ACCESS SECTION WITH BACK RETURN AIR AND TOP OUTSIDE AIR OPENINGS. OUTSIDE AIR OPENING TO INCLUDE AIR FLOW MEASURING STATION
2. PRE-FILTER SECTION
3. COOLING COIL SECTION WITH UV LIGHTS
4. ACCESS SECTION
5. SUPPLY FAN SECTION
6. TURNING SECTION
7. COOLING COIL SECTION WITH UV LIGHTS
8. ACCESS SECTION
9. DESICCANT WHEEL SECTION WITH WHEEL BYPASS MOTORIZED DAMPERS
10. FINAL FILTER SECTION
11. DISCHARGE PLENUM WITH ACCESS
12. RAIL SYSTEM

FAN SCHEDULE

MARK	TYPE [1]	CONTROL SEQ. [2]	OPERATING CFM	S.P. in W.G.	R.P.M.	MAX. SONES	MOTOR DATA H.P.	MOTOR DATA B.H.P.	MOTOR DATA WATTS	ELEC. SERVICE	DRIVE	BASIS OF DESIGN	NOTES [3]
EF-01	A	B	100	0.5	817	2.8	-	-	128	120V.,1ph	DIRECT	GREENHECK MODEL SP-B150	1,2,3,4,6,7
EF-02	A	B	100	0.5	817	2.8	-	-	128	120V.,1ph	DIRECT	GREENHECK MODEL SP-B150	1,2,3,4,6,7
EF-03	A	B	100	0.5	817	2.8	-	-	128	120V.,1ph	DIRECT	GREENHECK MODEL SP-B150	1,2,3,4,6,7
EF-04	A	B	100	0.5	817	2.8	-	-	128	120V.,1ph	DIRECT	GREENHECK MODEL SP-B150	1,2,3,4,6,7
EF-05	A	D	200	0.5	1064	3.8	-	-	135	120V.,1ph	DIRECT	GREENHECK MODEL SP-A200	1,2,3,6,7
EF-06	B	A	470	0.5	1382	10	1/4	0.13	-	120V.,1ph	DIRECT	GREENHECK MODEL SQ-95-VG	1,2,3,5,8
EF-07	B	C	500	0.5	1411	10	1/4	0.14	-	120V.,1ph	DIRECT	GREENHECK MODEL SQ-95-VG	1,2,3,5,8

COMPARABLE PRODUCTS:
GREENHECK, COOK, PENN-BARRY

[1] TYPE:
A. CEILING CABINET TYPE
B. ABOVE CEILING INLINE TYPE

[2] CONTROL SEQUENCE:
A. EXHAUST FAN SHALL BE INTERLOCKED WITH AHU-01 OPERATION TO RUN CONTINUOUSLY BY AHU-01 CONTROL PANEL.
B. EXHAUST FAN SHALL BE CONTROLLED BY WALL MOUNTED PASSIVE INFRARED MOTION SENSOR MOUNTED AT 48" A.F.F. ADJUST SENSOR TO REMAIN ON FOR 20 MINUTES AFTER ACTIVATION.
C. EXHAUST FAN SHALL BE CONTROLLED TO RUN CONTINUOUSLY VIA TIME SCHEDULE CONTROL.
D. EXHAUST FAN SHALL BE INTERLOCKED WITH F/E-04 OPERATION TO RUN CONTINUOUSLY.

[3] NOTES: PROVIDE THE FOLLOWING MANUFACTURER'S ACCESSORIES:
1. UL AND AMCA RATING
2. FACTORY MOUNTED & WIRED DISCONNECT
3. BACKDRAFT DAMPER
4. WALL MOUNTED MOTION DETECTOR
5. ECM MOTOR WITH MOTOR MOUNTED POTENTIOMETER
6. FACTORY MOUNTED & WIRED SOLID STATE SPEED CONTROLLER
7. ALUMINUM GRILLE
8. NEOPRENE VIBRATION ISOLATION HANGING KIT

AIR TERMINALS SCHEDULE

MARK	TYPE	C.F.M. RANGE	NECK SIZE	FACE SIZE	DEFLECTION	V.D.*	FACTORY INSULATION**	BASIS OF DESIGN	NOTES
1s	GYP. CEILING MOUNTED SQUARE PLAQUE S/A DIFFUSER	25-100	6"Ø	12"x12"	AS INDIC.	NO	YES	PRICE MODEL SPD	1
2s	GYP. CEILING MOUNTED SQUARE PLAQUE S/A DIFFUSER	75-225	8"Ø	20"x20"	AS INDIC.	NO	YES	PRICE MODEL SPD	1
3s	GYP. CEILING MOUNTED SQUARE PLAQUE S/A DIFFUSER	200-375	10"Ø	20"x20"	AS INDIC.	NO	YES	PRICE MODEL SPD	1
4s	GYP. CEILING MOUNTED SQUARE PLAQUE S/A DIFFUSER	350-550	12"Ø	24"x24"	AS INDIC.	NO	YES	PRICE MODEL SPD	1
5s	L.A.T. CEILING MOUNTED SQUARE PLAQUE S/A DIFFUSER	25-100	6"Ø	24"x24"	AS INDIC.	NO	YES	PRICE MODEL SPD	
6s	L.A.T. CEILING MOUNTED SQUARE PLAQUE S/A DIFFUSER	75-225	8"Ø	24"x24"	AS INDIC.	NO	YES	PRICE MODEL SPD	
7s	L.A.T. CEILING MOUNTED SQUARE PLAQUE S/A DIFFUSER	200-375	10"Ø	24"x24"	AS INDIC.	NO	YES	PRICE MODEL SPD	
8s	L.A.T. CEILING MOUNTED SQUARE PLAQUE S/A DIFFUSER	350-550	12"Ø	24"x24"	AS INDIC.	NO	YES	PRICE MODEL SPD	
9s	GYP. CEILING MOUNTED HIGH CAPACITY S/A DIFFUSER	175-250	8"Ø	24"x24"	2-WAY	NO	YES	PRICE MODEL HCF	1
10s	GYP. CEILING MOUNTED HIGH CAPACITY S/A DIFFUSER	250-450	10"Ø	24"x24"	2-WAY	NO	YES	PRICE MODEL HCF	1
11s	GYP. CEILING MOUNTED SQUARE PLAQUE S/A DIFFUSER WITH CRD	25-100	6"Ø	12"x12"	AS INDIC.	NO	YES	PRICE MODEL SPD	1, 3
1r	L.A.T. CEILING MOUNTED CUBE CORE R/A GRILLE	0-600	22"x10"	24"x12"	0°	NO	NO	PRICE MODEL 80	2
2r	L.A.T. CEILING MOUNTED CUBE CORE R/A GRILLE	700-1600	22"x22"	24"x24"	0°	NO	NO	PRICE MODEL 80	2
3r	GYP. CEILING MOUNTED CUBE CORE R/A GRILLE	0-600	22"x10"	24"x12"	0°	NO	NO	PRICE MODEL 80	1, 2
4r	GYP. CEILING MOUNTED CUBE CORE R/A GRILLE	700-1600	22"x22"	24"x24"	0°	NO	NO	PRICE MODEL 80	1, 2
5r	GYP. CEILING MOUNTED CUBE CORE R/A GRILLE WITH CRD	25-100	10"x10"	12"x12"	0°	NO	NO	PRICE MODEL 80	1, 2, 3
1e	L.A.T. CEILING MOUNTED CUBE CORE E/A REGISTER	0-450	12"x12"	24"x24"	0°	YES	NO	PRICE MODEL 80-D	2
2e	GYP. CEILING MOUNTED CUBE CORE E/A GRILLE WITH CRD	25-100	10"x10"	12"x12"	0°	NO	NO	PRICE MODEL 80	1, 2, 3
3e	GYP. CEILING MOUNTED CUBE CORE E/A GRILLE	25-100	10"x10"	12"x12"	0°	YES	NO	PRICE MODEL 80-D	1, 2

* V.D. - VOLUME DAMPER (FACTORY ACCESSORY)
** AIR DISTRIBUTION DEVICES WHERE NOTED TO INCLUDE FACTORY INSULATION ON REAR OF DEVICE

COMPARABLE PRODUCTS:
PRICE, TITUS, METALAIRE

NOTES:
1. PROVIDE WITH PLASTER RING FOR LAY-IN MOUNTING INSTALLATION INTO GYP CEILING.
2. PROVIDE WITH SQUARE TO ROUND ADAPTER. SEE PLANS FOR ROUND DUCT SIZE.
3. PROVIDE WITH UL LISTED CEILING RADIATION DAMPER AND INSULATION BLANKET FOR DIFFUSER BACKPAN. INSTALL PER MANUFACTURER'S INSTALLATION REQUIREMENTS TO MEET UL LISTING.

FURNACE WITH DX COOLING SCHEDULE

MARK	TYPE	TOTAL C.F.M.	O.A. C.F.M.	E.S.P. IN. W.G.	HEATING DATA FUEL	INPUT MBHR	OUTPUT MBHR	MIN. NO. STAGES	DX COOLING CAPACITY MAX. A.P.D. IN. W.G.	E.A.T. °F D.B.	E.A.T. °F W.B.	TOTAL MBHR	SENS. MBHR	ELECTRICAL DATA SERVICE	FAN H.P.	BASIS OF DESIGN FURNACE	BASIS OF DESIGN EVAPORATOR	MATCHED TO
F/E-01	HORZ	1800	200	0.9	N. GAS	120	116	2	0.35	80	67	59	41.6	120V.,1ph	1	TRANE MODEL S9V2D120	TRANE MODEL 4TXCD010	CU-01
F/E-02	HORZ	1400	200	0.9	N. GAS	100	97	2	0.35	80	67	46	32.5	120V.,1ph	3/4	TRANE MODEL S9V2C100	TRANE MODEL 4TXCD008	CU-02
F/E-03	HORZ	1800	225	0.9	N. GAS	120	116	2	0.35	80	67	59	41.6	120V.,1ph	1	TRANE MODEL S9V2D120	TRANE MODEL 4TXCD010	CU-03
F/E-04	HORZ	1100	150	0.9	N. GAS	60	58.2	2	0.35	80	67	35	24.7	120V.,1ph	1/2	TRANE MODEL S9V2B060	TRANE MODEL 4TXCB003	CU-04
F/E-05	HORZ	1800	200	0.9	N. GAS	120	116	2	0.35	80	67	59	41.6	120V.,1ph	1	TRANE MODEL S9V2D120	TRANE MODEL 4TXCD010	CU-05
F/E-06	HORZ	1400	200	0.9	N. GAS	100	97	2	0.35	80	67	46	32.5	120V.,1ph	3/4	TRANE MODEL S9V2C100	TRANE MODEL 4TXCD008	CU-06

COMPARABLE PRODUCTS:
LENNOX, TRANE, CARRIER, YORK, RUUD/RHEEM

NOTES:
1. REFRIGERANT PIPE SIZE SHALL BE AS PER MANUFACTURER'S RECOMENDATION TO PROVIDE SCHEDULED MINIMUM COOLING CAPACITY AND MAXIMUM EQUIPMENT LIFE.
2. PROVIDE ONE POINT ELECTRICAL CONNECTIONS FOR ALL INDOOR UNITS.

MOTOR STARTER SCHEDULE

SERVING	HP OF EACH LOAD	ELECTRICAL CHARACTERISTICS	BASIS OF DESIGN	NOTES [1]
EF-05	135 watts	120V.,1ph	FRANKLIN CONTROLS MODEL BAS-1P	1, 2, 3
EF-06	1/4	120V.,1ph	FRANKLIN CONTROLS MODEL BAS-1P	1, 2, 3
EF-07	1/4	120V.,1ph	FRANKLIN CONTROLS MODEL BAS-1P	1, 2, 3

[1] NOTES
1. COORDINATE CONTROL CONTACTOR REQUIREMENTS WITH ENERGY MANAGEMENT SYSTEM (EMS) TO ACHIEVE SPECIFIED SEQUENCE OF OPERATIONS.
2. MOUNT STARTER WITHIN 10' OF EQUIPMENT SERVED. COORDINATE IN FIELD SPECIFIC LOCATION.
3. COMBINATION MOTOR STARTER/DISCONNECT.

FILTER HOUSING SCHEDULE

MARK	LOCATION	C.F.M.	SERVES	INT. S.P. (in. w.g.)	BASIS OF DESIGN (NO SUBSTITUTIONS ALLOWED)	FEATURES/ ACCESSORIES
FH-01	MECH. MEZZ.	1000	AHU-01	1.5	LIFEAIRE SYSTEMS MODEL AIRE 1000	1, 2, 3

FEATURES/ACCESSORIES:
1. INDOOR APPLICATION WITH TOP ACCESS TO UV LAMPS.
2. SIDE ACCESS FILTER DOORS.
3. UNIT MOUNTED ON MEZZANINE PLATFORM.

CONDENSING UNIT SCHEDULE

MARK	COOLING CAPACITY OUTDOOR Db. °F	TOTAL MBHR	MIN. S.E.E.R.	ELECTRICAL SERVICE	MCA	MOCP	BASIS OF DESIGN	MATCHED TO
CU-01	95	59	14.95	208V.,1ph	32	50	TRANE MODEL 4TTR6061	F/E-01
CU-02	95	46	14.95	208V.,1ph	26	40	TRANE MODEL 4TTR6049	F/E-02
CU-03	95	59	14.95	208V.,1ph	32	50	TRANE MODEL 4TTR6061	F/E-03
CU-04	95	35	14.95	208V.,1ph	18	30	TRANE MODEL 4TTR6036	F/E-04
CU-05	95	59	14.95	208V.,1ph	32	50	TRANE MODEL 4TTR6061	F/E-05
CU-06	95	46	14.95	208V.,1ph	26	40	TRANE MODEL 4TTR6049	F/E-06
CU-07A	95	30	14.95	208V.,1ph	17	25	TRANE MODEL 4TTR6030	AHU-01
CU-07B	95	30	14.95	208V.,1ph	17	25	TRANE MODEL 4TTR6030	AHU-01

COMPARABLE PRODUCTS:
LENNOX, TRANE, CARRIER, YORK

NOTES:
1. ALL UNITS TO BE PROVIDED WITH HIGH/LOW PRESSURE SWITCHES, HARD SHUTOFF KIT, LIQUID LINE FILTER DRYER AND WARRANTY AS SPECIFIED.
2. ALL UNITS SHALL BE PROVIDED WITH HEAVY DUTY FACTORY COIL GUARD. SEE MECHANICAL SPECIFICATIONS FOR CLARITY.
3. REFRIGERANT PIPE SIZE SHALL BE AS PER MANUFACTURER'S RECOMMENDATION TO PROVIDE SCHEDULED MINIMUM COOLING CAPACITY AND MAXIMUM EQUIPMENT LIFE.
4. PROVIDE LOW AMBIENT CONTROLS/CAPABILITY.

ELECTRIC DUCT HEATERS SCHEDULE

MARK	DUCT SIZE	SYSTEM	CFM	MAX. A.P.D. in. w.g.	E.A.T., °F	ELECTRICAL DATA SERVICE	KW	NO. OF STAGES	BASIS OF DESIGN	NOTES
EDH-01	16"x14"	AHU-01	1,000	0.05	60.6	208V.,1ph	18	MOD. SCR	GREENHECK MODEL IDHC	1,2,3

NOTES:
1. CONTRACTOR SHALL VERIFY DUCT SIZES WITH ACTUAL CONDITIONS.
2. PROVIDE WITH MODULATING SCR CONTROL. SEE SPECIFICATION FOR CONTROL SEQUENCE.
3. PROVIDE ALL UNITS WITH INTEGRAL CIRCUIT BREAKER/DISCONNECT SWITCH, SEQUENCE PANEL, AIR PROVING SAFETY CONTROLS, INTERLOCK RELAY AND HIGH SAFETY CONTROLS SET AT 120°F, ADJUSTABLE.

DUCTLESS SPLIT SYSTEM (OUTDOOR SECTION) SCHEDULE

MARK	COOLING CAPACITY OUTDOOR D.B., °F	TOTAL MBHR	MIN. S.E.E.R.	HEATING CAPACITY TOTAL REVERSE CYCLE, M.B.H.*	HSPF	MAXIMUM REFRIGERANT PIPE LENGTH (FT.)	ELECTRICAL SERVICE	BASIS OF DESIGN	MATCHED TO
DCU-01	95	17.1	15	18	8.2	98	208V.,1ph	DAIKIN MODEL RXN18NMVJU	DSS-01

*BASED ON 47 °F D.B. OUTSIDE AND 70 °F D.B. INDOOR ENTERING COIL TEMPERATURE

COMPARABLE PRODUCTS:
MITSUBISHI, DAIKIN, LG

NOTES:
1. REFRIGERANT PIPE SIZE SHALL BE AS PER MANUFACTURER'S RECOMMENDATION TO PROVIDE SCHEDULED MINIMUM COOLING CAPACITY AND MAXIMUM EQUIPMENT LIFE.
2. PROVIDE LOW AMBIENT CONTROLS/CAPABILITY.
3. ALL UNITS TO BE PROVIDED WITH HIGH/LOW PRESSURE SWITCHES, HARD SHUTOFF KIT, LIQUID LINE FILTER DRYER AND WARRANTY AS SPECIFIED.
4. SEE SPECIFICATIONS FOR WARRANTY INFORMATION.
5. PROVIDE WITH INVERTER DUTY OR VARIABLE SPEED COMPRESSOR.

DEHUMIDIFIER UNIT SCHEDULE

MARK	MATCHED SYSTEM	C.F.M.	PINTS/24 HRS. @ 80 DEG. F / 60%RH	ELECTRICAL DATA SERVICE	AMPS	BASIS OF DESIGN	NOTES
DH-01	F/E-01	350	155	120V.,1ph	8	ULTRA-AIRE MODEL XT155H	1,2,3,4
DH-02	F/E-02	350	155	120V.,1ph	8	ULTRA-AIRE MODEL XT155H	1,2,3,4
DH-03	F/E-03	350	155	120V.,1ph	8	ULTRA-AIRE MODEL XT155H	1,2,3,4
DH-04	F/E-04	150	105	120V.,1ph	4.5	ULTRA-AIRE MODEL XT105H	1,2,3,4
DH-05	F/E-05	350	155	120V.,1ph	8	ULTRA-AIRE MODEL XT155H	1,2,3,4
DH-06	F/E-06	350	155	120V.,1ph	8	ULTRA-AIRE MODEL XT155H	1,2,3,4

NOTES:
1. PROVIDE WITH HARD DRAIN CONNECTION AND 6' CORD WITH PLUG.
2. PROVIDE WITH REPLACEABLE FILTERS (MERV 11).
3. PROVIDE WITH BUILT-IN AUTOMATIC CONTROLS AND FACTORY DEHUMIDISTAT (FOR FIELD MOUNTING).
4. PROVIDE WITH DUCT COLLARS FOR REMOTE MOUNTING/INSTALLATION.

DUCTLESS SPLIT SYSTEM (INDOOR SECTION) SCHEDULE

MARK	TYPE	TOTAL C.F.M.	HEATING CAPACITY INDOOR D.B., °F	OUTDOOR D.B., °F	TOT. REV. CYCLE M.B.H.	COOLING CAPACITY ENT. COND. D.B.	ENT. COND. D.B.	TOTAL MBHR	ELECTRICAL SERVICE	BASIS OF DESIGN	FEATURES/ ACCESSORIES	MATCHED TO
DSS-01	WALL	700	70	47	18	80	67	17.1	208V.,1ph	DAIKIN MODEL FTXN18NMVJU	1, 2	DCU-01

*BASED ON 47 °F D.B. OUTSIDE AND 70 °F D.B. INDOOR ENTERING COIL

COMPARABLE PRODUCTS:
MITSUBISHI, DAIKIN, LG

FEATURES/ACCESSORIES:
1. PROVIDE WITH HARD WIRED WALL MOUNTED THERMOSTAT.
2. MANUFACTURER'S INTEGRAL HIGH LIFT (MINIMUM 5 FEET) CONDENSATE PUMP.

ELECTRIC WALL HEATER SCHEDULE

MARK	C.F.M.	E.A.T. °F	MINIMUM B.T.U.H.	ELECTRICAL DATA SERVICE	HTG. ELEM. KW	HP	MANUFACTURER AND MODEL	NOTES
EWH-01	225	50	10,200	208V.,1ph	3	1/8	MARKEL SERIES 3450	1, 2

NOTES:
1. PROVIDE WITH INTEGRAL THERMOSTAT AND TAMPERPROOF THERMOSTAT COVER PLATE.
2. HEATER TO BE SURFACE MOUNTED. MOUNT WHERE DIRECTED BY ARCHITECT.

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Chief Engineer: Brian Mistich, PE
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Slidell, LA 70458

REVISIONS
| DESCRIPTION | DATE

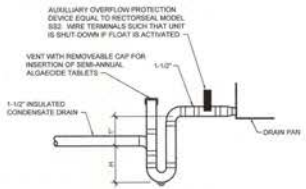
SEAL:
STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
PROFESSIONAL ENGINEER

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

JOB No:	2515	DATE:	05-16-2025
DRAWN BY:	CAD	CHECKED BY:	BAM

SHEET TITLE:
MECHANICAL SCHEDULES

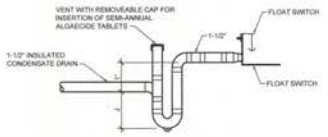
DRAWING NUMBER:
M3



H=1/2"+TOTAL UNIT STATIC PRESSURE

BLOW THRU CONDENSATE DRAIN PIPING

N.T.S.



H=1/2"+TOTAL UNIT STATIC PRESSURE

BLOW THRU CONDENSATE DRAIN PIPING

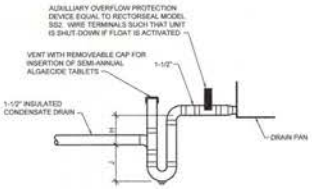
N.T.S.

GENERAL HVAC NOTES:

1. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT THE SPECIFIED HVAC SYSTEM BE PROVIDED COMPLETE WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS AND COMPLETELY COORDINATED WITH ALL OTHER CRAFTS AND DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE IN STRICT CONFORMANCE. ANY ADDITIONAL MATERIALS AND/OR LABOR REQUIRED TO CONFORM WITH ALL APPLICABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS, SHALL BE FURNISHED COMPLETE AND WITHOUT ADDITIONAL COST TO THE CONTRACT.
2. THE LOCATION OF ALL AIR DISTRIBUTION DEVICES TO BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. COORDINATE LOCATION OF DUCTWORK IN ALL AREAS TO MATCH CEILING GRID/LIGHT FIXTURES WHILE MAXIMIZING CEILING HEIGHT SCHEDULED ON ARCHITECTURAL PLANS.
3. COORDINATE LOCATION OF ALL OUTDOOR AIR INTAKES FOR HVAC SYSTEMS AND MAINTAIN MINIMUM 25'-0" DISTANCE TO FLUES, VENTS, EXHAUST FANS, ETC.
4. SIDEWALL AND DRYWALL CONSTRUCTION AIR DISTRIBUTION DEVICES MOUNTINGS IN SAME ROOM SHALL BE UNIFORM AND SYMMETRICAL AS APPROVED BY ARCHITECT.
5. IT IS ESSENTIAL THAT ALL EXTERIOR WALL DEVICES (FANS, CAPS, BRICK VENTS, ETC.) BE INSTALLED SYMMETRICALLY AND PER ARCHITECT'S PLANS. VERIFY INSTALLATION REQUIREMENTS WITH ARCHITECT IN ALL CASES.
6. DUCTWORK AND OTHER MECHANICAL OPENINGS THROUGH MASONRY WALLS SHALL BE REINFORCED/SUPPORTED AS DETAILED ON STRUCTURAL DRAWINGS. MECHANICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR THE LOCATIONS AND SIZES OF THESE PENETRATIONS MAKING ALLOWANCES FOR INSULATION, FIRE DAMPERS, PIPING SLEEVES, ETC.

LEGEND - HVAC

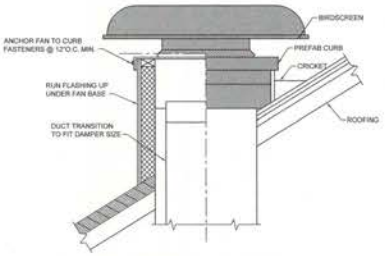
MARK	DESCRIPTION
OR	TYPICAL SUPPLY AIR DIFFUSER (SHADING/ARROWS INDICATES AIR FLOW THROW DIRECTION)
OR	TYPICAL EXHAUST OR RETURN AIR REGISTER
OR	TYPICAL RECTANGULAR TO ROUND DUCT TRANSITION
	TYPICAL DUCTWORK INCREASER / REDUCER
OR	TYPICAL ROUND DUCT BELLMOUTH TAKEOFF ADAPTER WITH VOLUME DAMPER
OR	TYPICAL ROUND DUCT BELLMOUTH TAKEOFF ADAPTER
OR	TYPICAL RECTANGULAR TO RECTANGULAR TAKEOFF ADAPTER WITH VOLUME DAMPER AND EXTRACTOR
OR	TYPICAL ADJUSTABLE LOCKING QUADRANT VOLUME DAMPER
MD OR	MOTORIZED DAMPER
	WHEN PRINTED IN COLOR, SUPPLY DUCTWORK BY BLUE COLOR. RETURN/TRANSFER DUCTWORK INDICATED BY RED COLOR AND EXHAUST DUCTWORK INDICATED BY GREEN COLOR. WHEN PRINTED IN GRAYSCALE, ALL DUCTWORK APPEARS THE SAME AND INDICATION OF DUCTWORK TYPE IS DETERMINED BY EQUIPMENT/GRILLES SERVED (SEE OTHER LEGENDS FOR MORE INFORMATION).
24"x14"	RECTANGULAR DUCT WITH SIZE LISTED. THE "x" DENOTES RECTANGULAR DUCT. (THE FIRST NUMBER INDICATES DUCT WIDTH PARALLEL TO VIEW WHILE THE SECOND NUMBER INDICATES DEPTH PERPENDICULAR TO VIEW). SEE PLANS AND SPECIFICATIONS FOR DUCT CONSTRUCTION REQUIREMENTS.
14"Ø	ROUND DUCT WITH SIZE LISTED. THE "Ø" DENOTES ROUND DUCT. SEE PLANS AND SPECIFICATIONS FOR DUCT CONSTRUCTION REQUIREMENTS
T	AUTOMATIC COOLING/HEATING CHANGEOVER PROGRAMMABLE THERMOSTAT MOUNTED AT 48" A.F.F. BEHIND CLEAR "BERKO" LOCKING TAMPER RESISTANT COVER
H	HIGH HUMIDITY SENSOR MOUNTED AT 84" A.F.F. BEHIND WHITE "KENALL" TAMPER PROOF COVER
ST	MANUFACTURER'S AUTOMATIC CHANGEOVER THERMOSTAT MOUNTED AT 48" A.F.F.
MS	MANUFACTURER'S WALL MOUNTED PASSIVE INFRARED MOTION SENSOR MOUNTED ADJACENT TO LIGHT SWITCH
SP	CEILING MOUNTED AIR PRESSURE SAMPLING PORT
M	WALL MOUNTED MAGNEHELIC GAUGE
	TYPICAL AIR FOIL TURNING VANES
AFD OR AFD	AUTOMATIC FIRE DAMPER WITH DUCT ACCESS DOOR
S/A	SUPPLY AIR
R/A	RETURN AIR
E/A	EXHAUST AIR
S.D.	SPLITTER DAMPER
C.R.D	CEILING RADIATION DAMPER WITH THERMAL BLANKET
B.Q.	LOCKING QUADRANT BALANCING DAMPER
MD	MOTORIZED DAMPER
ISD	DUCT MOUNTED SMOKE DETECTOR
B.D.D	BACKDRAFT DAMPER
	1 HOUR FIRE RATED PARTITION (VERIFY WITH ARCHITECTURAL DRAWINGS)



H=1"+TOTAL UNIT STATIC PRESSURE
J=1/2"*H

DRAW THRU CONDENSATE DRAIN PIPING

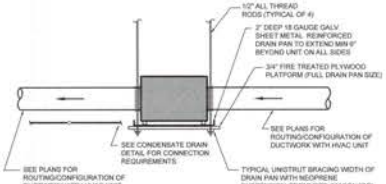
N.T.S.



ROOFTOP INTAKE/RELIEF HOOD DETAIL

N.T.S.

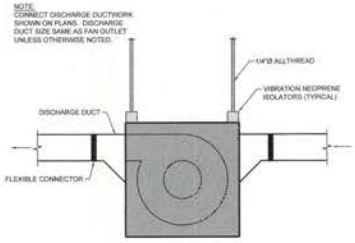
NOTE:
1. PROVIDE SLOPED ROOF CURB IF REQUIRED TO MAINTAIN TOP OF CURB LEVEL.
2. PROVIDE MANUFACTURER'S KYNAR FINISH. COLOR BY ARCHITECT.



SELF-CONTAINED DEHUMIDIFIER DETAIL

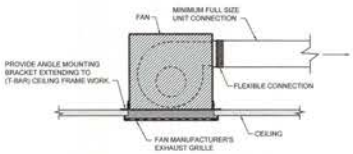
N.T.S.

NOTES:
1. CONTRACTOR SHALL PROVIDE FLOAT SWITCH INSIDE DRAIN PAN TO DE-ENERGIZE UNIT WHEN ACTIVATED.



INLINE ABOVE CEILING EXHAUST FAN DETAIL

N.T.S.



CEILING MOUNTED EXHAUST FAN DETAIL

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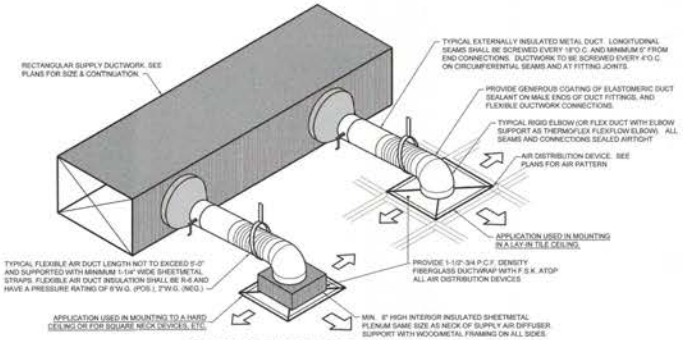

ROUND NECK DIFFUSER DETAIL

N.T.S.

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Chief Engineer: Brian Mistich, PE
Lic. No. 20187
Date: 05-16-2022
51490L LA 70458

#	DESCRIPTION	DATE

REVISIONS

SEAL:

STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 20187
PROFESSIONAL ENGINEER

NEW MEDICAL OFFICE
DIANA OAK HARBOR REAL ESTATE LLC

340 OAK HARBOR BLVD
SLIDELL, LA 70460

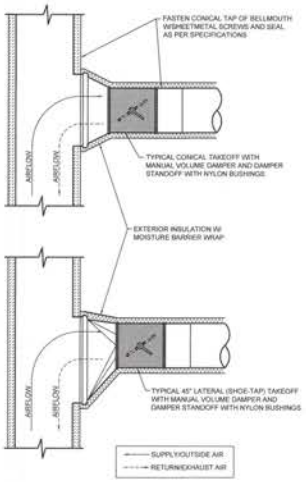
JOB No:	2813
DATE:	05-16-2022
DRAWN BY:	CJC
CHECKED BY:	BAM

SHEET TITLE:
MECHANICAL LEGEND AND DETAILS

DRAWING NUMBER:

M4

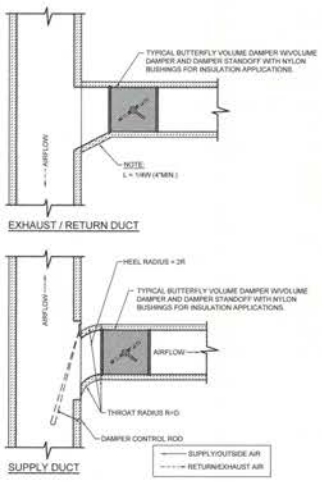
SHEET No: 41 of 52



TYPICAL LOW PRESSURE RECTANGULAR TO ROUND DUCT TAKEOFF DETAIL

N.T.S.

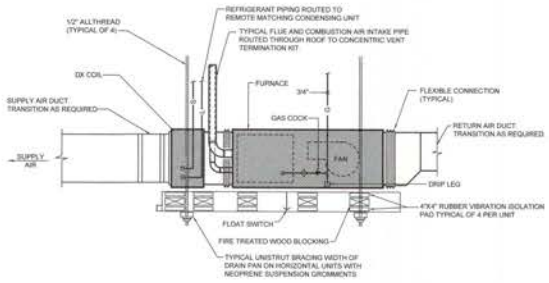
NOTE:
TAKE-OFF FITTINGS SHALL BE FACTORY FABRICATED SPIN-IN TYPE. NO DOVETAIL FIELD JOINTS OR FITTINGS ARE ALLOWED.



TYPICAL LOW PRESSURE RECTANGULAR TO RECTANGULAR DUCT TAKEOFF DETAIL

N.T.S.

NOTE:
TAKE-OFF FITTINGS SHALL BE FACTORY FABRICATED SPIN-IN TYPE. NO DOVETAIL FIELD JOINTS OR FITTINGS ARE ALLOWED.



HORIZONTAL GAS FURNACE W/ DX COOLING DETAIL

N.T.S.

NOTES:
1. CONTRACTOR SHALL PROVIDE FLOAT SWITCH INSIDE DRAIN PAN TO DE-ENERGIZE UNIT WHEN ACTIVATED.

DAMMON ENGINEERING, INC.
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Slidell, LA 70458

REVISIONS

#	DESCRIPTION	DATE

SEAL:

NEW MEDICAL OFFICE
DIANA OAK HARBOR REAL ESTATE LLC

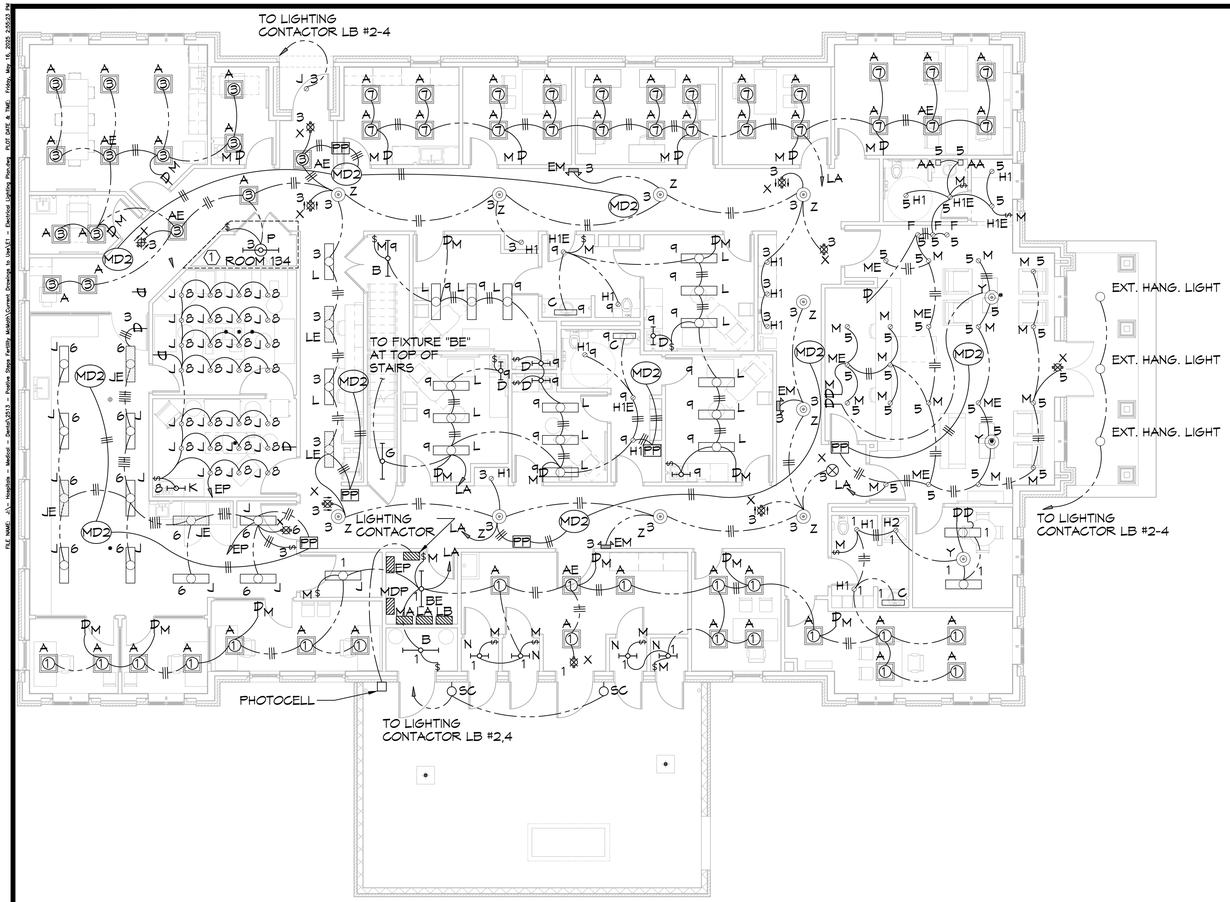
342 OAK HARBOR BLVD
SLIDELL, LA 70458

JOB No:	2813	DATE:	05-16-2025
DRAWN BY:	CJD	CHECKED BY:	BAM

SHEET TITLE:
MECHANICAL DETAILS

DRAWING NUMBER:
M4.1

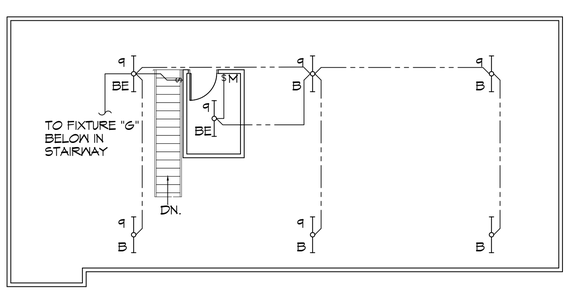
SHEET No: 42 of 52



1 LIGHTING PLAN

SCALE: 3/16"=1'-0"

FIRST FLOOR



2 LIGHTING PLAN- MEZZANINE

SCALE: 3/16"=1'-0"

SECOND FLOOR

ADDITIONAL LIGHTING NOTES

MARK	DESCRIPTION
1	USE GRS CONDUITS AND PROVIDE EXPLOSION PROOF FITTING FOR ALL CONNECTIONS IN GAS TANK STORAGE 134.

GENERAL LIGHTING NOTES

1. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, AND LOCAL CODES, RULES, REGULATIONS, AND REQUIREMENTS OF THE SERVICE UTILITY COMPANY.

2. GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF ANY CONFLICTS OCCUR BETWEEN LIGHTING AND ANY OTHER TRADE. DO NOT PROCEED WITH INSTALLATION IN THAT AREA UNTIL CONFLICT HAS BEEN RESOLVED TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.

3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING INSTRUCTIONS FOR ALL LIGHT FIXTURES. NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES BETWEEN THESE PLANS AND THE ARCHITECTURAL PLANS RELATING TO QUANTITY, TYPE AND LOCATION OF DEVICES AND/OR FIXTURES.

4. WHEN SPECIFIC LIGHT FIXTURE HAS BEEN SPECIFIED IN THE FIXTURE SCHEDULE, ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE ASSEMBLY INCLUSIVE ALL PARTS AND HARDWARE TO INSURE PROPER FUNCTIONING FIXTURE.

5. ALL CONDUCTORS SHALL BE A MINIMUM OF #12 AWG UNLESS NOTED OTHERWISE.

6. ALL 120V RUNS LONGER THAN 60 FEET SHALL BE #10 AWG AND 277V RUNS LONGER THAN 150 FEET SHALL BE #10 AWG UNLESS NOTED OTHERWISE.

7. ALL CONDUCTORS SHALL BE COPPER.

8. WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT WIRE SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS OTHERWISE NOTED.

9. MOUNTED LIGHT SWITCHES 48" AFF UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.

10. WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE. ALL GANGED SWITCHES SHALL HAVE A COMMON SEAMLESS FACEPLATE. EACH MULTI-GANGED BOX SHALL BE NO MORE THAN SIX (6) SWITCHES WIDE. WHERE MORE THAN SIX (6) SWITCHES ARE SHOWN AT ONE (1) LOCATION, ADDITIONAL MULTI-GANGED BOXES SHALL BE STACKED VERTICALLY AND THE WIDTH OF THE MULTI-GANGS SHALL BE AS EVEN AS POSSIBLE.

11. MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION. MINIMUM SIZE CONDUIT SHALL BE ¾" ELECTRICAL METALLIC TUBING (EMT) FOR INTERIOR USE, ¾" RIGID ALUMINUM FOR EXTERIOR USE ABOVE GRADE AND 1" SCHEDULE 40 PVC, BURIED A MINIMUM OF 18" FOR NON-VEHICLUAR TRAFFIC AREAS, FOR CONDUITS BELOW GRADE . EMT SHALL BE USED WITH METAL STUD CONSTRUCTION AND ALL ASSEMBLY OCCUPANCIES. INTERIOR FITTINGS SHALL BE CAST WHERE EXPOSED ON WALLS, AND EXTERIOR FITTINGS SHALL BE CAST BOXES WITH NEMA 3R COVER(S).

12. DROP/SUSPENDED CEILINGS - ALL WIRING ABOVE DROP/SUSPENDED CEILINGS SHALL BE PROTECTED FROM PHYSICAL DAMAGE WITH EMT, IN METAL STUD CONSTRUCTION, OR SCHEDULE 40 PVC, IN WOOD FRAME CONSTRUCTION. 6 FT LENGTH OF MC CABLE FOR EQUIPMENT WHIP(S) IS ALLOWED ABOVE DROPPED CEILING FROM A J-BOX TO LIGHT FIXTURES.

13. EACH DIMMER SWITCH SHALL HAVE A WATTAGE RATING 25% HIGHER THAN THE TOTAL WATTAGE OF AL LIGHTS TO BE CONTROLLED BY THE DIMMER. DIMMER SIZES 600, 1000, 1500, AND 2000 WATTS, LUTRON NOVA T-STAR. WHERE SWITCHES ARE GANGED WITH DIMMERS, THE SWITCHES SHALL ALSO BE LUTRON NOVA T-STAR. FLUORESCENT AND LOW VOLTAGE DIMMERS SHALL BE LUTRON NOVA T-STAR.

14. ALL EMERGENCY EXIT LIGHT FIXTURES SHALL HAVE 90 MINUTE BATTERY BACKUP WITH INTEGRAL TEST BUTTON AND SHALL BURN CONTINUOUSLY.

15. ALL FLUORESCENT FIXTURES THAT UTILIZE DOUBLE-ENDED LAMPS AND CONTAIN BALLASTS SHALL BE PROVIDED WITH A DISCONNECTING MEANS IN ACCORDANCE WITH NEC 410.73G.

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

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#	DESCRIPTION	DATE

REVISIONS

SEAL:

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NEW MEDICAL OFFICE
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JOB No:	2513
DATE:	05-16-2025
DRAWN BY:	TNT
CHECKED BY:	CKD

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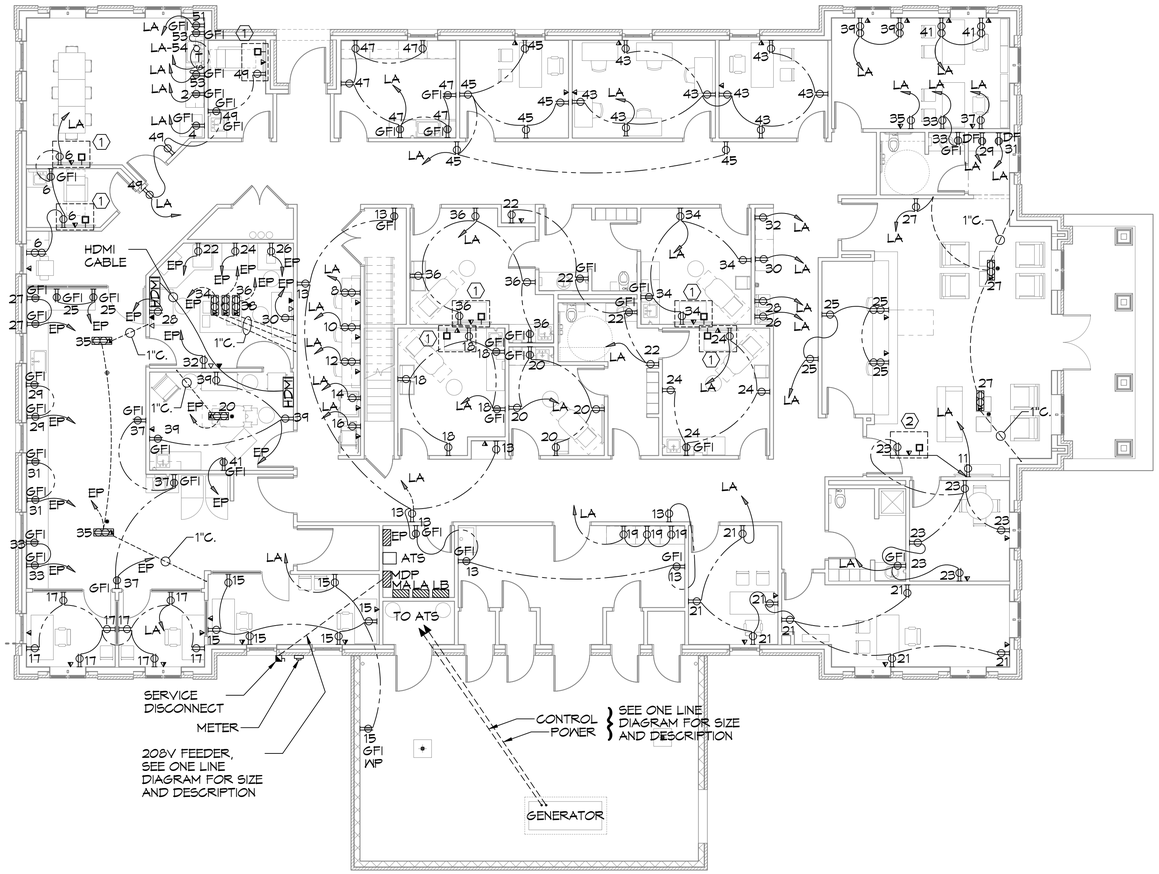
SHEET TITLE:
FIRST FLOOR
SECOND FLOOR
LIGHTING PLAN

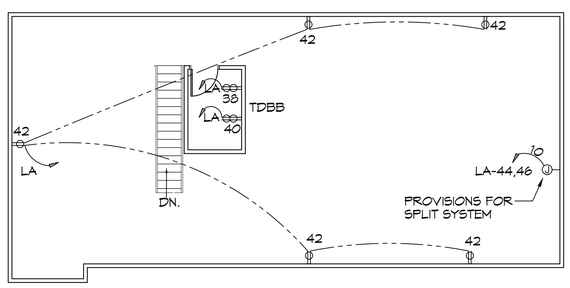
DRAWING NUMBER:
E1

SHEET No: 47 of 52



3 POWER PLAN
SCALE: 1/8"=1'-0"

FIRST FLOOR



4 POWER PLAN- MEZZANINE
SCALE: 1/8"=1'-0"

SECOND FLOOR

ADDITIONAL POWER NOTES

MARK	DESCRIPTION
A.	INDIVIDUAL UPS FOR LAB EQUIPMENT PROVIDED BY OTHERS.
(1)	VERIFY MOUNTING WITH ARCHITECT PRIOR TO ROUGH-IN.
(2)	MOUNT 60" A.F.F.

GENERAL POWER NOTES

1. 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 OR APPROVAL WHERE REQUIRED. ELECTRICAL CONTRACTOR SHALL VERIFY ALL WIRE AND CONDUIT SIZES FOR MECHANICAL EQUIPMENT TO BE INSTALLED.
2. ALL MATERIALS FURNISHED SHALL BE NEW AND SHALL BE U.L. LISTED.
3. 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.
4. PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE INCOMING ELECTRICAL SERVICE WITH UTILITY COMPANY AND INCLUDE IN HIS BID ALL CHARGES AND FEES INCURRED IN MODIFICATIONS.
7. ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE GENERAL CONTRACTOR.
8. ELECTRICAL CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, PLASTER, PARTITIONS, WALLS, 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.
9. 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.
10. MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION.
11. MINIMUM SIZE CONDUIT SHALL BE ¾" ELECTRICAL METALLIC TUBING (EMT) FOR INTERIOR USE, ¾" RIGID ALUMINUM FOR EXTERIOR USE ABOVE GRADE AND 1" SCHEDULE 40 PVC, BURIED A MINIMUM OF 18" FOR NON-VEHICLUAR TRAFFIC AREAS, AND 3 FT IN VEHICULAR TRAFFIC AREAS . EMT SHALL BE USED WITH METAL STUD CONSTRUCTION AND ALL ASSEMBLY OCCUPANCIES. 6 FT LENGTH MC CABLE IS ALLOWED ABOVE DROPPED CEILING.
12. INTERIOR FITTINGS SHALL BE CAST WHERE EXPOSED ON WALLS, AND EXTERIOR FITTINGS SHALL BE CAST BOXES WITH NEMA 3R COVER(S).
13. CONTRACTOR SHALL INSTALL WIRING AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
14. ALL 120V RUNS LONGER THAN 60 FEET SHALL BE #10 AWG AND 277V RUNS LONGER THAN 150 FEET SHALL BE #10 AWG UNLESS NOTED OTHERWISE.
15. 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 A KITCHEN AREA SHALL HAVE GROUND FAULT PROTECTION.
16. BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:250-69, NFPR 250-23, 250-71 & 250-72.
17. GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-23b.
18. FUSES SHALL BE ITT CLASS K5, 250 VOLT, 200,000 AMP INTERRUPTING CAP.
19. 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.
20. 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.
21. 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.)
22. VERIFY ELECTRICAL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.
23. TYPES NM AND NMC CABLES SHALL NOT BE PERMITTED TO BE EXPOSED IN DROPPED OR SUSPENDED CEILINGS.

THIS WORK SHALL MEET ALL ELECTRICAL CODES

1. 2020 NATIONAL ELECTRICAL CODE
2. NFPA 70
3. 2021 IECC ENERGY CODE

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

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#	DESCRIPTION	DATE

REVISIONS

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STATE OF LOUISIANA
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JOB No:	2513	DATE:	05-16-2025
DRAWN BY:	GKD	CHECKED BY:	BAM

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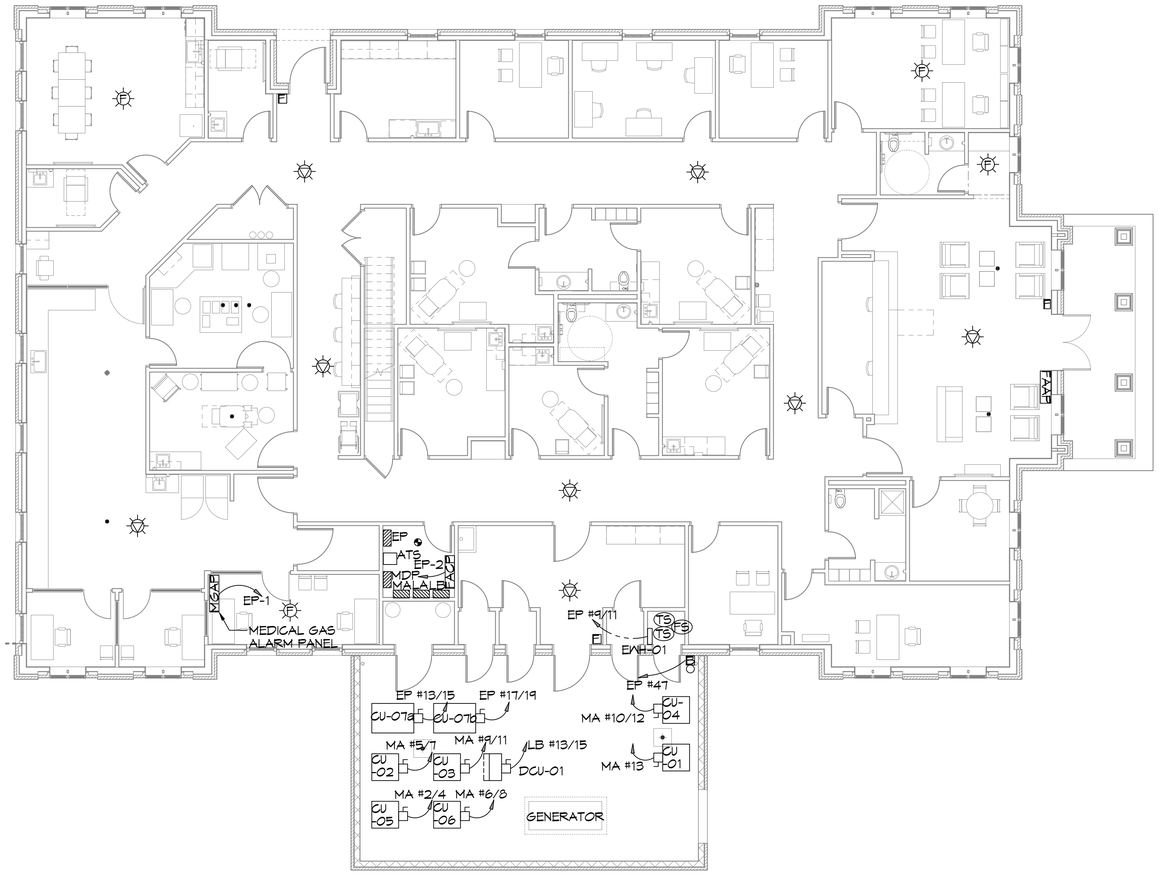
SHEET TITLE:
FIRST FLOOR
SECOND FLOOR
POWER PLAN

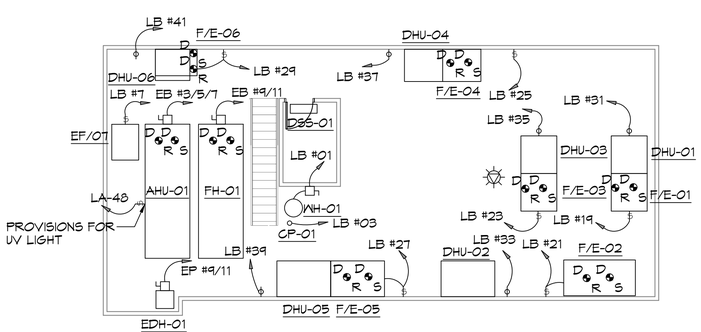
DRAWING NUMBER:
E2



5 AUXILIARY PLAN

SCALE: 1/8"=1'-0"

FIRST FLOOR



6 AUXILIARY PLAN- MEZZANINE

SCALE: 1/8"=1'-0"

SECOND FLOOR

MECHANICAL EQUIPMENT CONNECTIONS SCHEDULE

MARK	VOLTAGE	PANEL	CIRCUITRY	LOCAL DISCONNECT	REMARKS
AHU-01	208V3Φ	EP	3#12, #12(G), 1/2"C.	30/3I	
CU-01	208V1Φ	MA	2#8, #10(G), 3/4"C.	60/2/3R	
CU-02	208V1Φ	MA	2#10, #10(G), 3/4"c.	30/2/3R	
CU-03	208V1Φ	MA	2#8, #10(G), 3/4"C.	60/2/3R	
CU-04	208V1Φ	MA	2#12, #12(G), 1/2"C.	30/2/3R	
CU-05	208V1Φ	MA	2#8, #10(G), 3/4"C.	60/2/3R	
CU-06	208V1Φ	MA	2#10, #10(G), 3/4"C.	30/2/3R	
CU-07a	208V1Φ	EP	2#10, #10(G), 3/4"C.	30/2/3R	
CU-07b	208V1Φ	EP	2#10, #10(G), 3/4"C.	30/2/3R	
DCU-01	208V1Φ	MDP	2#12, #12(G), 1/2"C.	30/2/3R	INTERLOCKED WITH DSS-01
DSS-01	208V1Φ	MDP	2#12, #12(G), 1/2"C.	TWO POLE SWITCH (S^{2P})	INTERLOCKED WITH DCU-01
F/E-01	120V, 1Φ	LB	2#10, #10(G), 3/4"C.	MOTOR RATED SWITCH (S^{T})	
F/E-02	120V, 1Φ	LB	2#10, #10(G), 3/4"C.	MOTOR RATED SWITCH (S^{T})	
F/E-03	120V, 1Φ	LB	2#10, #10(G), 3/4"C.	MOTOR RATED SWITCH (S^{T})	
F/E-04	120V, 1Φ	LB	2#12, #12(G), 1/2"C.	MOTOR RATED SWITCH (S^{T})	
F/E-05	120V, 1Φ	LB	2#10, #10(G), 3/4"C.	MOTOR RATED SWITCH (S^{T})	
F/E-06	120V, 1Φ	LB	2#10, #10(G), 3/4"C.	MOTOR RATED SWITCH (S^{T})	
DH-01	120V,1Φ	LB	2#12,#12(G), 1/2"C.	NEMA 5-20R	
DH-02	120V,1Φ	LB	2#12,#12(G), 1/2"C.	NEMA 5-20R	
DH-03	120V,1Φ	LB	2#12,#12(G), 1/2"C.	NEMA 5-20R	
DH-04	120V,1Φ	LB	2#12,#12(G), 1/2"C.	NEMA 5-20R	
DH-05	120V,1Φ	LB	2#12,#12(G), 1/2"C.	NEMA 5-20R	
DH-06	120V,1Φ	LB	2#12,#12(G), 1/2"C.	NEMA 5-20R	
EXH-01	208V, 1Φ	MA	2#12,#12(G), 1/2"C.	TWO POLE SWITCH (S^{2P})	
EF-01	120V, 1Φ	LA	2#12,#12(G), 1/2"C.	PROVIDED WITH EQUIPMENT	INTERLOCKED WITH LIGHTS
EF-02	120V, 1Φ	LA	2#12,#12(G), 1/2"C.	PROVIDED WITH EQUIPMENT	INTERLOCKED WITH LIGHTS
EF-03	120V, 1Φ	LA	2#12,#12(G), 1/2"C.	PROVIDED WITH EQUIPMENT	INTERLOCKED WITH LIGHTS
EF-04	120V, 1Φ	LA	2#12,#12(G), 1/2"C.	PROVIDED WITH EQUIPMENT	INTERLOCKED WITH LIGHTS
EF-05	120V, 1Φ	EP	2#12,#12(G), 1/2"C.	PROVIDED WITH EQUIPMENT	INTERLOCKED WITH AHU-01
EF-06	120V, 1Φ	EP	2#12,#12(G), 1/2"C.	PROVIDED WITH EQUIPMENT	INTERLOCKED WITH AHU-01
EF-07	120V, 1Φ	LB	2#12,#12(G), 1/2"C.	PROVIDED WITH EQUIPMENT	INTERLOCKED WITH EMS SYSTEM
FH-01	208V, 1Φ	EP	2#12,#12(G), 1/2"C.	TWO POLE SWITCH (S^{2P})	INTERLOCKED WITH EMS SYSTEM
EDH-01	208V, 1Φ	EP	2#1, #6(G), 1-1/4"C.	100/2/1	
CP-01	120V, 1Φ	LB	2#12, #12(G), 1/2"C.	30/1/1	
WH-01	120V, 1Φ	LB	2#12, #12(G), 1/2"C.	5-20R	

GENERAL NOTE 1: PRIOR TO SUBMITTING ELECTRICAL EQUIPMENT BROCHURES, THE CONTRACTOR SHALL VERIFY LOCATION, ACTUAL EQUIPMENT SUBMITTAL DATA AND ADJUST EQUIPMENT SERVICES ACCORDINGLY.

NOTE A: CORD AND PLUG PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

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#	DESCRIPTION	DATE

SEAL:

STATE OF LOUISIANA
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License No. 30187
PROFESSIONAL ENGINEER

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

JOB No: 2513
DATE: 05-16-2025
DRAWN BY: GCD
CHECKED BY: BAM

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SHEET TITLE:
FIRST FLOOR
SECOND FLOOR
AUXILIARY PLAN

DRAWING NUMBER:
E3

SHEET No: 49 of 52

FILE NAME: J:\- Hospitals - Medical - Dental\2513 - Postive Steps Fertility McMath\Current Drawings to Use\E4 - Electrical Panel.dwg PLOT DATE & TIME: Friday, May 16, 2025 2:54:03 PM

PANEL SCHEDULE

PANEL: MDP
LOCATION: ELECTRICAL EQUIPMENT ROOM
FEEDER SOURCE: CLECO
INTERRUPTING RATING: 20 KAIC
VOLTAGE: 208/120V, 400A, 3Φ, 4 WIRE
ENCLOSURE: SURFACE MOUNTED W/ EQUIPMENT GND BAR SQ D I-LINE PANELBOARD

CKT NO	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT NO
1		PANEL "MA"	125	3	9800	13200	3	225	PANEL "LA"		2
3					9600	15400					4
5					8600	14600					6
7		AUTOMATIC TRANSFER SWITCH FOR PANEL "EP"	200	3	15800	8400	3	225	PANEL "LB"		8
9					15200	8700					10
11					12400	7400					12
13		SPARE	200	3	0	0	3	225	SPARE		14
15					0	0					16
17					0	0					18

SOLID NEUTRAL NEUTRAL WIRE (W) | TOTAL CONNECTED LOAD (VA) = 139100 | GROUND BUS GROUND WIRE (G)
AΦ = 47200 | BΦ = 48900 | CΦ = 43000

PANEL SCHEDULE

PANEL: MA
LOCATION: ELECTRICAL EQUIPMENT ROOM
FEEDER SOURCE: MDP #1/3/5
INTERRUPTING RATING: 20 KAIC
VOLTAGE: 208/120V, 200A, 3Φ, 4 WIRE
ENCLOSURE: SURFACE MOUNTED W/ EQUIPMENT GND BAR SQ D TYPE QO LOAD CENTER

CKT NO	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT NO
1		CU-1	50	2	2700	2700	2	50	CU-5		2
3					2700	2700					4
5		CU-2	40	2	2200	2200	2	40	CU-6		6
7					2200	2200					8
9		CU-3	50	2	2700	1500	2	30	CU-4		10
11					2700	1500					12
13		SPARE	30	2	0	0	2	30	SPARE		14
15					0	0					16
17											18
19		SPARE	40	2	0	0	2	40	SPARE		20
21					0	0					22
23		SPARE	50	2	0	0	2	50	SPARE		24
					0	0					

SOLID NEUTRAL NEUTRAL WIRE (W) | TOTAL CONNECTED LOAD (VA) = 28000 | GROUND BUS GROUND WIRE (G)
AΦ = 9800 | BΦ = 9600 | CΦ = 8600

PANEL SCHEDULE

PANEL: LA
LOCATION: ELECTRICAL EQUIPMENT ROOM
FEEDER SOURCE: MDP #2/4/6
INTERRUPTING RATING: 20 KAIC
VOLTAGE: 208/120V, 225A, 3Φ, 4 WIRE
ENCLOSURE: FLUSH MOUNTED W/ EQUIPMENT GND BAR SQ D TYPE QO LOAD CENTER

CKT NO	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT NO
1	#12	LIGHTS (ELEC, OFFICE, STO, DIRTY UTILITY, CONSULT)	20	1	1100	200	1	20	RECEPT (CONFERENCE/BREAK)	#12	2
3	#12	LIGHTS (CORRIDOR, VITALS, PHLEBOTOMY)	20	1	1100	800	1	20	RECEPT (CONFERENCE/BREAK REFRIGERATOR)	#12	4
5	#12	LIGHTS (WAITING, RECEPT, RR,OFFICE, CONSULT)	20	1	800	700	1	20	RECEPT (CONFERENCE/BREAK, COLL, PHLEB.)	#12	6
7	#12	LIGHTS (OFFICE, CONSULT)	20	1	700	400	1	20	RECEPT (NURSE STATION)	#12	8
9	#12	LIGHTS (EXAM ROOM, RR)	20	1	1400	400	1	20	RECEPT (NURSE STATION)	#12	10
11	#12	RECEPT (WAITING ROOM, COFFEE MAKER)	20	1	1400	400	1	20	RECEPT (NURSE STATION)	#12	12
13	#12	RECEPT (ELEC, DIRTY UTILITY, CORRIDOR)	20	1	1400	200	1	20	RECEPT (NURSE STATION)	#12	14
15	#12	RECEPT (OFFICE)	20	1	1100	200	1	20	RECEPT (NURSE STATION)	#12	16
17	#12	RECEPT (OFFICE)	20	1	1400	900	1	20	RECEPT (EXAM 3)	#12	18
19	#12	RECEPT (DIRTY UTILITY)	20	1	500	700	1	20	RECEPT (EXAM 4)	#12	20
21	#12	RECEPT (CONSULT. OFFICE)	20	1	1400	700	1	20	RECEPT (PATIENT RR, CORRIDOR)	#12	22
23	#12	RECEPT (STAFF, RR, FINANCIAL COUNSELING)	20	1	1100	700	1	20	RECEPT (EXAM 5)	#12	24
25	#12	RECEPT (RECEPTION)	20	1	1100	200	1	20	RECEPT (VITALS)	#12	26
27	#12	RECEPT (WAITING)	20	1	900	200	1	20	RECEPT (VITALS)	#12	28
29	#12	RECEPT (DRINKING FOUNTAIN)	20	1	500	200	1	20	RECEPT (VITALS)	#12	30
31	#12	RECEPT (DRINKING FOUNTAIN)	20	1	500	200	1	20	RECEPT (VITALS)	#12	32
33	#12	RECEPT (NURSING OFFICE)	20	1	400	700	1	20	RECEPT (EXAM 1)	#12	34
35	#12	RECEPT (NURSING OFFICE)	20	1	1000	900	1	20	RECEPT (EXAM 2)	#12	36
37	#12	RECEPT (NURSING OFFICE)	20	1	1000	400	1	20	RECEPT, DATA (MEZZANINE)	#12	38
39	#12	RECEPT (NURSING OFFICE)	20	1	700	400	1	20	RECEPT, DATA (MEZZANINE)	#12	40
41	#12	RECEPT (NURSING OFFICE)	20	1	700	700	1	20	RECEPT, (MECHANICAL MEZZANINE)	#12	42
43	#12	RECEPT (NURSING OFFICE)	20	1	1400	2500	2	30	PROVISION FOR SPLIT SYSTEM (MECHANICAL MEZZANINE)	#10	44
45	#12	RECEPT (OFFICE, CORRIDOR)	20	1	1100	2500					46
47	#12	RECEPT (CLEAN UTILITY)	20	1	1100		1	20	SPARE		48
49	#12	RECEPT (COLLECTION, CONF/BREAK, CORRIDOR)	20	1	700		1	20	SPARE		50
51	#12	RECEPT (CONFERENCE/BREAK, DISHWASHER)	20	1	1400		1	20	SPARE		52
53	#12	RECEPT (CONFERENCE/BREAK)	20	1	400	1700	1	20	CONFERENCE/BREAK 108 - DISPOSAL	#12	54

SOLID NEUTRAL NEUTRAL WIRE (W) | TOTAL CONNECTED LOAD (VA) = 43200 | GROUND BUS GROUND WIRE (G)
AΦ = 13200 | BΦ = 15400 | CΦ = 14600

PANEL SCHEDULE

PANEL: LB
LOCATION: ELECTRICAL EQUIPMENT ROOM
FEEDER SOURCE: MDP #2/4/6
INTERRUPTING RATING: 20 KAIC
VOLTAGE: 208/120V, 225A, 3Φ, 4 WIRE
ENCLOSURE: FLUSH MOUNTED W/ EQUIPMENT GND BAR SQ D TYPE QO LOAD CENTER

CKT NO	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT NO
1	#12	WH-01, MECHANICAL MEZZANINE	20	1	1000	1000	1	20	LIGHTS, PARKING LOT	#12	2
3	#12	CP-01, MECHANICAL MEZZANINE	15	1	500	100	1	20	LIGHTS, EXTERIOR	#12	4
5		SPARE	20	1		300	1	20	LIGHTING CONTACTOR "C1"	#12	6
7	#12	EF-07, EQUIPMENT MEZZANINE	15	1	700		1	20	SPARE		8
9	#12	EWH-01	20	2	1500		1	20	SPARE		10
11					1500		1	20	SPARE		12
13	#12	DCU-01 ANS DSS-01	20	2	1000		1	20	SPARE		14
15					1000		1	20	SPARE		16
17		SPARE	20	1			1	20	SPARE		18
19	#10	F/E-01, EQUIPMENT MEZZANINE	30	1	1900		1	20	SPARE		20
21	#10	F/E-02 EQUIPMENT MEZZANINE	25	1	1700		1	20	SPARE		22
23	#10	F/E-03, EQUIPMENT MEZZANINE	30	1	1900		1	20	SPARE		24
25	#12	F/E-04, EQUIPMENT MEZZANINE	20	1	1200		1	20	SPARE		26
27	#10	F/E-05, EQUIPMENT MEZZANINE	30	1	1900		1	20	SPARE		28
29	#10	F/E-06 EQUIPMENT MEZZANINE	25	1	1700		1	20	SPARE		30
31	#12	DH-01, EQUIPMENT MEZZANINE	20	1	1000		1	20	SPARE		32
33	#12	DH-02, EQUIPMENT MEZZANINE	20	1	1000		1	20	SPARE		34
35	#12	DH-03, EQUIPMENT MEZZANINE	20	1	1000		1	20	SPARE		36
37	#12	DH-04, EQUIPMENT MEZZANINE	20	1	600		1	20	SPARE		38
39	#12	DH-05, EQUIPMENT MEZZANINE	20	1	1000		1	20	SPARE		40
41	#12	DH-06, EQUIPMENT MEZZANINE	20	1	1000		1	20	SPARE		42
43		SPARE	20	1			1	20	SPARE		44
45		SPARE	20	1			1	20	SPARE		46
47		SPARE	20	1			1	20	SPARE		48
49		SPARE	20	1			1	20	SPARE		50
51		SPARE	20	1			1	20	SPARE		52
53		SPARE	20	1			1	20	SPARE		54

SOLID NEUTRAL NEUTRAL WIRE (W) | TOTAL CONNECTED LOAD (VA) = 24500 | GROUND BUS GROUND WIRE (G)
AΦ = 8400 | BΦ = 8700 | CΦ = 7400

PANEL SCHEDULE

PANEL: EP
LOCATION: ELECTRICAL EQUIPMENT ROOM
FEEDER SOURCE: MDP #2/4/6
INTERRUPTING RATING: 20 KAIC
VOLTAGE: 208/120V, 225A, 3Φ, 4 WIRE
ENCLOSURE: FLUSH MOUNTED W/ EQUIPMENT GND BAR SQ D TYPE QO LOAD CENTER

CKT NO	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT NO
1	#12	MEDICAL GAS ALARM PANEL	20	2	300	300	1	20	FACP	#12	2
3					1900		1	20	SPARE		4
5	#12	AHU-1	20	3	1900	1700	1	20	LIGHTS, PRIMARY LAB	#12	6
7					1900	1100	1	20	LIGHTS, ADVANCED LAB, PROCEDURE	#12	8
9	#12	FH-01	20	2	1500	100	1	15	EF-05	#12	10
11					1500	700	1	15	EF-06	#12	12
13							1	20	SPARE		14
15						1400	2	25	CU-07a	#10	16
17	#10	CU-07b	25	2	1400	1400					18
19					1400	500	1	20	PATIENT TABLE, PROCEDURE	#12	20
21		SPARE	20	1		500	1	20	NIKON MICROSCOPE ADVANCED LAB	#12	22
23	#12	PROVISIONS FOR UV LIGHT ON AHU-01	20	1	200	500	1	20	OLYMPUS MICROSCOPE ADVANCED LAB	#12	24
25	#12	RECEPT, PRIMARY LAB	20	1	400	500	1	20	FULL SIZE INCUBATOR ADVANCED LAB	#12	26
27	#12	RECEPT, PRIMARY LAB	20	1	400	500	1	20	6' WORK STATION ADVANCED LAB	#12	28
29	#12	RECEPT, PRIMARY LAB	20	1	400	500	1	20	4' WORK STATION ADVANCED LAB	#12	30
31	#12	RECEPT, PRIMARY LAB	20	1	400	500	1	20	4' WORK STATION ADVANCED LAB	#12	32
33	#12	RECEPT, PRIMARY LAB	20	1	400	500	1	20	MINC BENCH TOP INCUBATOR ADVANCED LAB	#12	34
35	#12	RECEPT, FLOOR BOX, PRIMARY LAB	20	1	700	500	1	20	MINC BENCH TOP INCUBATOR ADVANCED LAB	#12	36
37	#12	RECEPT, PRIMARY LAB	20	1	500	500	1	20	MINC BENCH TOP INCUBATOR ADVANCED LAB	#12	38
39	#12	RECEPT, PROCEDURE	20	1	500		1	20	SPARE		40
41	#12	RECEPT, PROCEDURE	20	1	500		1	20	SPARE		42
43	#1	EDH-01	100	2	7500		1	20	SPARE		44
45					7500		1	20	SPARE		46
47	#12	FIRE ALARM BELL	20	1	500		1	20	SPARE		48
49		SPARE	20	1			1	20	SPARE		50
51		SPARE	20	1			1	20	SPARE		52
53		SPARE	20	1			1	20	SPARE		54

SOLID NEUTRAL NEUTRAL WIRE (W) | TOTAL CONNECTED LOAD (VA) = 43400 | GROUND BUS GROUND WIRE (G)
AΦ = 15800 | BΦ = 15200 | CΦ = 12400

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

DAMMON
ENGINEERING, INC.
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REVISIONS
#	DESCRIPTION	DATE

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

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

JOB No: 2513 | DATE: 05-16-2025
DRAWN BY: CKD | CHECKED BY: BAM

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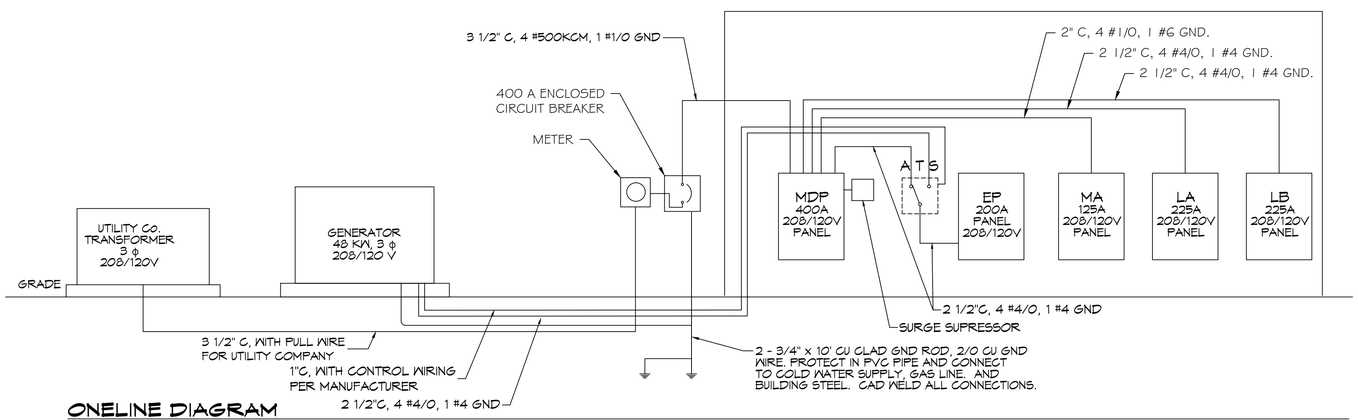
SHEET TITLE:
POWER PANELS

DRAWING NUMBER:
E4

POWER COMPANY:	CLECO				
PROJECT NAME:	DOCTOR'S OFFICE				
PROJECT ADDRESS:	500 OAK HARBOR BLVD				
CITY TOWN:	SLIDELL, LOUISIANA 70458				
INTENDED USER:	DOCTOR'S OFFICE				
REQUIRED SERVICE:	208/120 VOLTS	3 PHASE	4 WIRE		
SERV ENTR SIZE:	400 AMPS				
HVAC TONNAGE:	29 TONS				
LARGEST MOTOR:	HP	NOTE: MOTORS ABOVE 20 HP MAY REQUIRE REDUCED VOLTAGE STARTING AND ARE NEVER RECOMMENDED FOR USE WITH 240/120V, 1 PH, 3 W SERVICE			
TOTAL BUILDING SQUARE FOOTAGE:	8205 S.F.				
INDIVIDUAL UNIT SQUARE FOOTAGE:	0 S.F.				
INDIVIDUAL UNIT DESIGNATION:	N/A	(MULT OCCUPANCY)			

LOAD SOURCE	1ΦKVA	3ΦKVA	OR	1ΦKW	3ΦKW
BUILDING LIGHTING		9.0			
ELECTRIC WATER HEATING		3.0			
HEAT PUMPS		0.0			
SUPPLEMENTAL HEAT SYSTEMS		0.0			
AIR COND CONDENSING UNITS		33.6			
ELEC HEATING (PRIMARY) AHU'S		15.0			
COOKING		N/A			
REFRIGERATION		1.0			
RECEPTACLES (STANDARD)		33.6			
RECEPTACLES (COMPUTER)		1.0			
TOTAL MOTORS (EXCLUDE HVAC)		N/A			
EXTERIOR LIGHTING		1.1			
MISCELLANEOUS - CEILING FANS		16.0			
OTHER		25.0			
TOTAL CONNECTED LOAD	0.0	139.1		0.0	0.0



ONELINE DIAGRAM

SCALE: 1/4"=1'-0"

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

DAMMON ENGINEERING, INC.
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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

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

JOB No:	2513
DATE:	05-16-2025
DRAWN BY:	CKD
CHECKED BY:	BAM

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SHEET TITLE:
ONE LINE DIAGRAM

DRAWING NUMBER:
E5

SHEET No: 51 of 52

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.
- 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.
- 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-1-**-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

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

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REVISIONS

#	DESCRIPTION	DATE

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NEW MEDICAL OFFICE
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540 OAK HARBOR BLVD
SLIDELL, LA 70458

JOB No: 2513 DATE: 05-16-2025
DRAWN BY: CKD CHECKED BY: BAM

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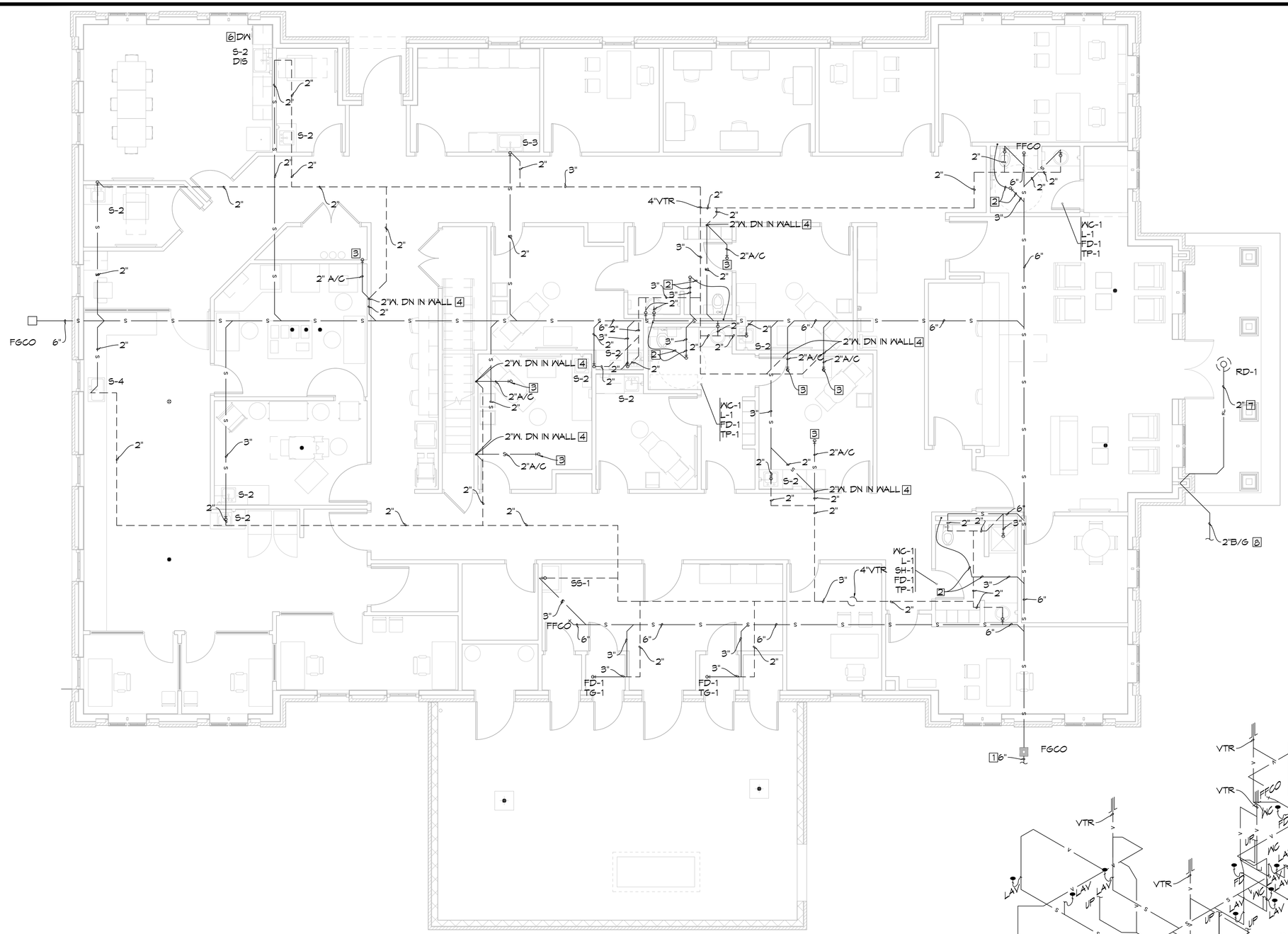
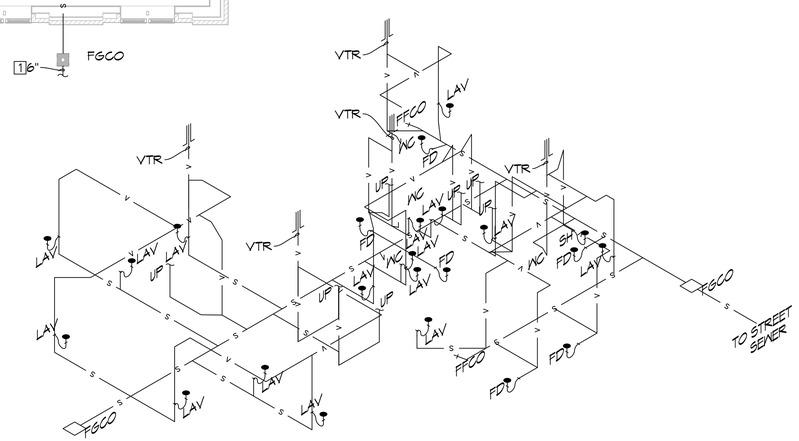
SHEET TITLE:
ELECTRICAL LEGEND

DRAWING NUMBER:
E6



1 PLUMBING DRAIN, WASTE, AND VENT PLAN
SCALE: 3/16"= 1'-0"



2 PLUMBING RISER
SCALE: 3/16" = 1'-0"

SPECIFIC DRAIN, WASTE, AND VENT NOTES

(SEE GENERAL PLUMBING NOTES FOR MORE INFORMATION)

1. TYPICAL SERVICE PIPING BELOW GRADE AT APPROXIMATELY THIS LOCATION. SEE CIVIL PLAN FOR CONTINUATION.
2. 1/2" TYPE "K" SOFT COPPER TRAP PRIMER AND 3" WASTE BELOW SLAB/FLOOR.
3. 1-1/2" INSULATED TRAPPED WASTE RECEPTOR ABOVE CEILING EXTENDED UP THROUGH MEZZANINE FLOOR ABOVE TO RECEIVE COOLING COIL CONDENSATE DRAIN INSULATE ALL PIPING INCLUDING VENT/WASTE PIPING IN WALL TO SLAB ON GRADE.
4. INSULATE CONDENSATE DRAIN AND/OR SANITARY WASTE PIPING, INCLUDING TRAP AND SANITARY WASTE PIPING IN APPLICATIONS WHERE CONDENSATE FROM AIR CONDITIONING UNITS AND/OR DEHUMIDIFIERS DISCHARGE. INSULATION SHALL EXTEND CONTINUOUS TO SLAB ON GRADE PENETRATION. INSULATE PER SPECIFICATIONS FOR CONDENSATE DRAIN PIPING.
5. EXTEND CONDENSATE DRAIN PIPING TO TRAPPED WASTE RECEPTOR AS INDICATED. HORIZONTAL MAINS TO BE 1-1/4" SIZE WITH MINIMUM 3/4" SIZE CONNECTIONS TO INDIVIDUAL UNITS.
6. CONNECT 1" DRAIN FOR DISHWASHERS TO SINK.
7. TYPICAL INSULATED RAIN LEADER PIPING ROUTED UP TO ROOF DRAIN.
8. TYPICAL RAIN LEADER PIPING ROUTED BELOW FINISHED GRADE AT APPROXIMATELY THIS LOCATION. SEE ARCHITECTURAL/CIVIL SITE PLAN FOR INVERTS AND CONTINUATION.

ALL SANITARY SEWER ARE DIAGRAMMATICALLY DRAWN FOR CLARITY.

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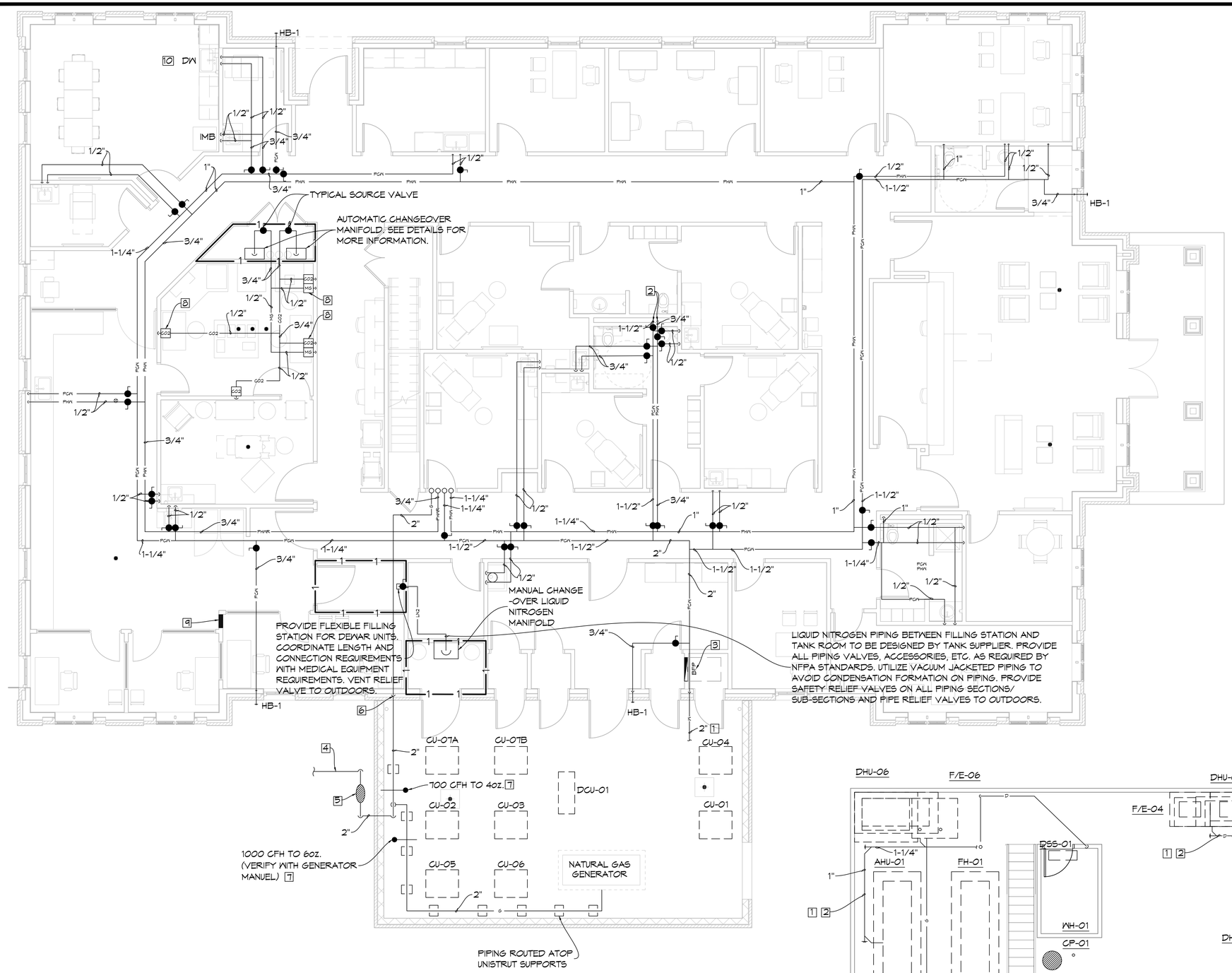
SHEET TITLE:
PLUMBING DRAIN, WASTE, AND VENT PLAN

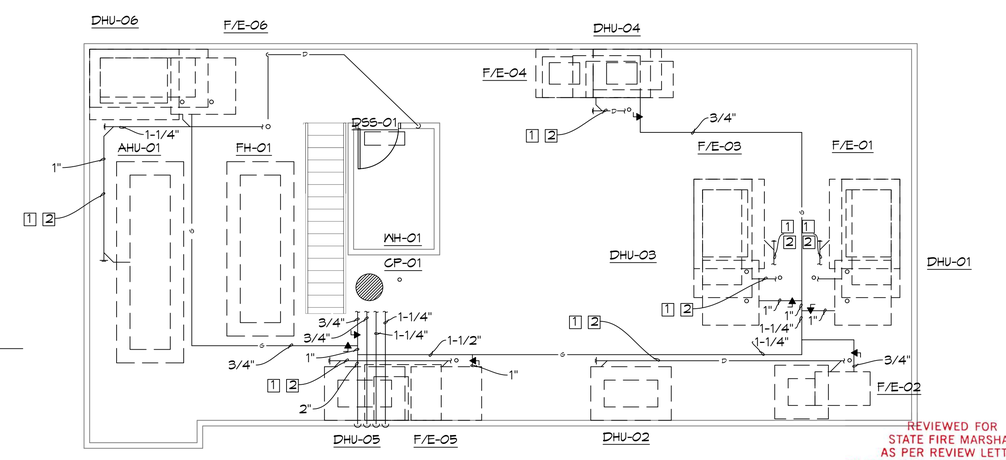
DRAWING NUMBER:
P1

SHEET No: 43 of 52

FILE NAME: J:\-TemplDwg - Medical - Dental\2513 - Pearlina Stage Facility Medical\Current Drawings to Use\P1 - Plumbing Drain, Waste and Vent.dwg PLOT DATE & TIME: Friday, May 16, 2025 3:48:28 PM



3 FIRST LEVEL WATER AND GAS PLAN
SCALE: 3/16"= 1'-0"



4 MEZZANINE WATER AND GAS PLAN
SCALE: 3/16" = 1'-0"

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

SPECIFIC WATER, GAS AND LABORATORY GAS NOTES

(SEE GENERAL PLUMBING NOTES FOR MORE INFORMATION)

1. TYPICAL SERVICE PIPING BELOW GRADE AT APPROXIMATELY THIS LOCATION. SEE CIVIL PLAN FOR CONTINUATION.
2. EXTEND NEW FILL SIZE WATER HEADER PIPING HORIZONTALLY IN PLUMBING CHASES WITH BRANCH PIPING TO SERVE INDIVIDUAL FIXTURES SIZED PER PLUMBING FIXTURE ROUGH-IN SCHEDULE AND INCLUDING WATER HAMMER ARRESTERS.
3. REDUCED PRESSURE BACKFLOW PREVENTER MOUNTED AT ±60" A.F.F. WITH DRAIN TO OUTDOORS TO SPLASH BLOCK. SEE DETAIL.
4. TYPICAL NEW GAS SERVICE PIPING ROUTED BELOW GRADE. VERIFY/COORDINATE WITH LOCAL SERVING UTILITY COMPANY. ALL COST AND COORDINATION SHALL BE BY THIS CONTRACTOR.
5. GAS METER/REGULATOR PROVIDED BY SERVING UTILITY COMPANY. COST AND COORDINATION SHALL BE BY THIS CONTRACTOR. REGULATE 1700 CFH TO 2 PSI.
6. LOW PRESSURE GAS PIPING (SIZE AS INDICATED) ROUTED UP IN EXTERIOR WALL AT APPROXIMATELY THIS LOCATION.
7. GAS REGULATOR. CAPACITY AND PRESSURES AS INDICATED. SEE DETAIL FOR PIPING REQUIREMENTS.
8. TYPICAL MEDICAL GAS WALL OUTLET. SEE PLAN FOR TYPE. COORDINATE ROUGH-IN LOCATION AND CONNECTION TYPE REQUIREMENT WITH LABORATORY EQUIPMENT SUPPLIER.
9. LABORATORY GAS ALARM PANEL MOUNTED ON WALL AT ±54" A.F.F. VERIFY MOUNTING LOCATION WITH ARCHITECT.
10. CONNECT 1/2" HW FOR DISHWASHER TO SINK.

SPECIFIC MEZZANINE PLUMBING NOTES

(SEE GENERAL PLUMBING NOTES FOR MORE INFORMATION)

1. INSULATE CONDENSATE DRAIN AND/OR SANITARY WASTE PIPING, INCLUDING TRAP AND SANITARY WASTE PIPING IN APPLICATIONS WHERE CONDENSATE FROM AIR CONDITIONING UNITS AND/OR DEHUMIDIFIERS DISCHARGE. INSULATION SHALL EXTEND FROM ORIGIN POINT OF COLD CONDENSATE AND EXTEND CONTINUOUS TO SLAB ON GRADE PENETRATION. INSULATE PER SPECIFICATIONS FOR CONDENSATE DRAIN PIPING.
2. EXTEND CONDENSATE DRAIN PIPING TO TRAPPED WASTE RECEPTOR AS INDICATED HORIZONTAL MAINS TO BE 1-1/4" SIZE WITH MINIMUM 3/4" SIZE CONNECTIONS TO INDIVIDUAL UNITS.

ALL SANITARY SEWER ARE DIAGRAMMATICALLY DRAWN FOR CLARITY.

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#	DESCRIPTION	DATE

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JOB No: 2513 | DATE: 05-16-2025
DRAWN BY: CAD | CHECKED BY: AMS

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SHEET TITLE:
PLUMBING WATER AND GAS PLAN

DRAWING NUMBER:
P1.1

SHEET No: 44 of 52

LEGEND - PLUMBING

MARK	DESCRIPTION
W	NEW SITE WATER SERVICE PIPING
F	NEW SITE FIRE PROTECTION WATER PIPING
MPG	NEW MEDIUM PRESSURE GAS PIPING
GSP	NEW GAS SERVICE PIPING (BY SERVING UTILITY)
G	NEW LOW PRESSURE GAS PIPING
RL	NEW RAIN LEADER PIPING
	NEW SANITARY VENT PIPING
SS	NEW SANITARY WASTE PIPING
HPCW	NEW DOMESTIC COLD WATER PIPING
HW	NEW DOMESTIC HOT WATER PIPING (120°F)
HWR	NEW DOMESTIC RECIRCULATING HOT WATER PIPING (120°F)
C	NEW CONDENSATE DRAIN PIPING
SL	NEW REFRIGERANT SUCTION AND LIQUID PIPING
MG	NEW MIXED GAS PIPING
CO2	NEW CARBON DIOXIDE PIPING
LN2	NEW LIQUID NITROGEN PIPING
	FULL PORT BALL VALVE (LEAD-FREE)
	CIRCUIT-SETTER TYPE MANUAL BALANCING VALVE
	GAS COCK
	SHUTOFF VALVE IN DROP
	UNION
	CHECK VALVE
	TYPICAL FINISHED GRADE CLEANOUT
	PRESSURE REDUCING VALVE
	THERMOMETER WITH WELL
	PRESSURE GAUGE AND COCK
HB	HOSE BIBB
WCO	WALL CLEANOUT
BFP	BACKFLOW PREVENTER
FD	FLOOR DRAIN
HW	HOT WATER
CW	COLD WATER
W	WASTE
V	VENT
A/C	ABOVE CEILING
B/S	BELOW SLAB
B/F	BELOW FLOOR
A/G	ABOVE FINISHED GRADE
B/G	BELOW FINISH GRADE
I/W	IN WALL
DN	DOWN
FFCO	FINISH FLOOR CLEANOUT
FGCO	FINISH GRADE CLEANOUT
VTR	VENT THRU ROOF
AFF	ABOVE FINISHED FLOOR
CO	CLEANOUT
RD	ROOF DRAIN
TP	TRAP PRIMER BELOW SLAB/FLOOR
	1 HOUR FIRE RATED PARTITION (VERIFY WITH ARCHITECTURAL DRAWINGS)

GENERAL PLUMBING NOTES:

1. PROVIDE AND INSTALL ALL PLUMBING PIPING, FIXTURES, TRIM, AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND FUNCTIONAL PLUMBING SYSTEM. CONTRACTOR SHALL VERIFY WITH ARCHITECT AND DRAWINGS, WHICH PLUMBING INSTALLATIONS ARE DESIGNATED FOR ADA ACCESSIBILITY. ALL SUCH FIXTURE INSTALLATIONS SHALL INCLUDE ALL INSTALLATION ACCESSORIES, MOUNTING/LIP HEIGHT, CONTROL OFFSET, SIZE AND ACCESSIBILITY AS REQUIRED BY LATEST EDITION OF AMERICANS WITH DISABILITIES ACT (ADA) AND LOCAL GOVERNING AUTHORITIES.
2. ALL PLUMBING VENTS, WHERE NOTED VENT UP (V. UP), SHALL BE COMBINED WITHIN WALL OR ABOVE CEILING CONCEALED AREAS, WHERE FEASIBLE, SO AS TO MINIMIZE ROOF PENETRATIONS. CONTRACTOR SHALL COORDINATE LOCATION OF ROOF PLUMBING AND FLUE VENTS SUCH THAT ALL VENTS ARE MINIMUM 25 FEET FROM ANY VENTILATION INTAKE DEVICES. ALL ROOF PENETRATIONS, VENTS, FLUES, ETC., SHALL BE MADE ON BACK SIDE OF ROOF AS CAN BE COORDINATED WITH ARCHITECT. ALL FLUES AND VENTS EXPOSED ABOVE ROOF SHALL BE FIELD PAINTED COLOR BY ARCHITECT.
3. ALL DRAINAGE, VENT AND WATER PIPING SHALL BE CONCEALED INSIDE WALLS AND PIPE CHASES OR ABOVE CEILINGS, EXCEPT AS OTHERWISE NOTED AND AT APPROPRIATE EQUIPMENT FINAL CONNECTIONS. HOLD ALL PIPING ABOVE CEILINGS AS HIGH AS POSSIBLE AND COORDINATE WITH OTHER CRAFTS.
4. COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL TRADES. PIPE ROUTING SHOWN IS DIAGRAMMATIC. PROVIDE ALL OFFSETS, ETC., TO AVOID INTERFERENCES WITH STRUCTURAL MEMBERS, EQUIPMENT, PIPING, DUCTWORK, LIGHTS, CONDUIT, ETC.
5. VERIFY/COORDINATE PIPE SIZES AND CONNECTIONS WITH "PLUMBING FIXTURE ROUGH-IN SCHEDULE" FOR WASTE, VENT AND WATER PIPING ROUGH-IN SIZES NOT CLEARLY SHOWN ON PLANS OR IN RISER DIAGRAMS, ETC. CONTACT PROFESSIONAL SHOULD QUESTIONS OR CONFLICTS ARISE. PROVIDE AND INSTALL ROUGH-IN, FINAL CONNECTIONS AND INSTALLATION APPURTENANCES AS RECOMMENDED BY APPLIANCE AND/OR EQUIPMENT MANUFACTURER FOR DISHWASHERS, ICE MAKERS, AND MACHINES, WASHERS, DRYERS, ETC. VERIFY LOCATION ON ARCHITECTURAL DRAWINGS AND CONNECTION REQUIREMENTS FROM APPROVED BROCHURES OF THE EQUIPMENT AND/OR APPLIANCES MANUFACTURER.
6. COORDINATE SLOPE OF ALL DRAINAGE AND VENT PIPING BELOW GRADE AT INVERT ELEVATIONS INDICATED. CONSISTENTLY SLOPE ALL OTHER PIPING, NOT INDICATED, AS REQUIRED BY PLUMBING CODE APPLICABLE TO THIS PROJECT BUT IN NO CASE LESS THAN 1%.
7. ALL VERTICAL RISERS TO FLOOR DRAINS AND FLOOR MOUNTED SINKS SHALL BE MAXIMUM 18" LONG.
8. ALL ABOVE GRADE HORIZONTAL DRAINAGE AND VENT PIPING ROUTING SHALL BE COORDINATED WITH OTHER CRAFTS AND STRUCTURAL/ARCHITECTURAL DRAWINGS. CONSISTENTLY SLOPE ALL PIPING, NOT INDICATED WITH ELEVATIONS, AS REQUIRED BY PLUMBING CODE APPLICABLE TO THIS PROJECT BUT IN NO CASE LESS THAN 1%.
9. WHEN SLEEVES, PIPES, CONDUITS, ETC. PENETRATE GRADE BEAMS OR TIE BEAMS THE CONTRACTOR SHALL INCREASE THE DEPTH OF THE PENETRATED BEAM BY NO LESS THAN TWICE THE DIAMETER OF THE PENETRATION FOR A DISTANCE OF 4'-0" CENTERED ON THE PENETRATION. WHERE THE PENETRATION INTERRUPTS REINFORCING STEEL, AN EQUAL NUMBER OF LIKE SIZE REINFORCING BARS SHALL BE BENT UNDER THE PENETRATION AND LAP SPLICED 30 BAR DIAMETERS ON EACH SIDE. CONCRETE COVER REQUIREMENTS ON ALL SIDES SHALL BE THE SAME AS SHOWN FOR THE UN-MODIFIED GRADE BEAM OR TIE BEAM. SEE STRUCTURAL DRAWINGS FOR FURTHER SPECIFICS. ETC. PROVIDE NEW SCHEDULE 40 PVC PIPE SLEEVE A MIN. TWO SIZES LARGER THAN CARRIER PIPE AT ALL SUCH CROSSINGS. TO EXTEND MIN. 9" PAST FOUNDATION ON BOTH ENDS. PROVIDE DAKUM AND SEALANT IN ANNULAR SPACE OF SLEEVES AND WATER PROOF ON ALL BUILDING PERIMETER AND INTERIOR FOOTING AND GRADE BEAM APPLICATIONS.
10. ALL CLEANOUTS IN SANITARY, STORM AND CONDENSATE DRAIN PIPING SHALL BE FULL PIPE SIZE UP TO 4" AND SHALL BE 4" SIZE ON 6" AND LARGER PIPING.
11. ROUTE ALL HORIZONTAL INSULATED DOMESTIC WATER PIPING UNDER ATTIC INSULATION WHERE ATTIC INSULATION OCCURS.

MISCELLANEOUS POWER CONNECTIONS SCHEDULE

MARK	DESIGNATION	INTERACTION REQUIRED	POWER REQUIREMENTS	REMARKS
DSL	DISPOSAL	ELECTRICAL	120v., 1ph, (3/4 HP)	IN-SINK-ERATOR 3/4 HP (EVOLUTION COMPACT)

PLUMBING FIXTURE SCHEDULE

MARK	ADA REQ'D	DESCRIPTION	ROUGH-IN REQUIREMENTS					FLOOR MTND CARRIER REQ'D
			WASTE	VENT	120 °F HW	CW	TEM PERED	
WC-1	YES	WATER CLOSET - FLOOR MOUNTED FLUSH VALVE	4"	2"-4"	-	1"	-	YES
L-1	YES	LAVATORY - OVAL COUNTER MOUNTED (UNDER-COUNTER)	2"	1-1/2"	1/2"	1/2"	-	NO
S-1	NO	SINK - SINGLE COMPARTMENT, STAINLESS STEEL, SELF-RIMMING (BREAK ROOM)	2"	1-1/2"	1/2"	1/2"	-	NO
S-2	NO	SINK - SINGLE COMPARTMENT, STAINLESS STEEL, SELF-RIMMING (EXAM HANDWASH)	2"	1-1/2"	1/2"	1/2"	-	NO
S-3	NO	SINK - SINGLE COMPARTMENT, STAINLESS STEEL, SELF-RIMMING (CLEAN UTILITY)	2"	1-1/2"	1/2"	1/2"	-	NO
S-4	NO	SINK - SINGLE COMPARTMENT, STAINLESS STEEL, SELF-RIMMING (ANDROLOGY - LARGE)	2"	1-1/2"	1/2"	1/2"	-	NO
SS-1	NO	SERVICE SINK - FLOOR MOUNTED TERRAZZO CORNER TYPE	3"	1-1/2"	1/2"	1/2"	-	NO
SH-1	YES	SHOWER FITTINGS AND DRAIN	2"	1-1/2"	1/2"	1/2"	-	NO
EDF-1	YES	ELECTRIC DRINKING FOUNTAIN - WALL MOUNTED TYPE (DUAL HEIGHT)	2"	1-1/2"	-	1/2"	-	YES
HB-1	NO	HOSE BIBB - NON-FREEZE TYPE IN LOCKING BOX	-	-	-	3/4"	-	NO
TP-1	NO	TRAP PRIMER - CONNECT TO FLUSH VALVE ASSEMBLY	-	-	-	1/2"	-	NO
TG-1	NO	TRAP GUARD	-	-	-	-	-	NO
IMB	NO	ICE MAKER WITH TYPE "K" COPPER WATER LINE	-	-	-	1/2"	-	NO
DW	NO	DISHWASHER CONNECTIONS	1"	-	1/2"	-	-	NO
FD-1	NO	FLOOR DRAIN - GENERAL DRAINAGE IN TOILET, DIRTY LINEN, AND TRASH AREAS	3"	1-1/2"	-	-	-	NO
RD-1	NO	ROOF DRAIN (SEE PLAN FOR SIZE)	-	-	-	-	-	NO

CIRCULATING PUMP SCHEDULE

MARK	LOCATION	SYSTEM [1]	CIRCULATING FLUIDS					% EFF.	TYPE [2]	ELECTRICAL DATA			BASIS OF DESIGN
			FLUID	G.P.M.	PUMP HEAD FT. FLUID	TEMP., °F	SP. GR.			NOM. HP.	SERVICE	R.P.M.	
CP-01	WH-01	A	WATER	3	20	90-200	1	-	A	1/12	120V.,1ph	2650	BELL & GOSSETT MODEL PL-30B

[1] SYSTEM
A. DOMESTIC HOT WATER RECIRCULATING

[2] TYPE
A. INLINE - LOW LEAD BRONZE OR STAINLESS STEEL

COMPARABLE PRODUCTS:
BELL AND GOSSETT, PACO, TACO

DOMESTIC WATER HEATER SCHEDULE

MARK	FUEL	STORAGE CAP., GAL.	RECOVERY G.P.H. AT 80 °F RISE	INPUT M/BHR	ELECTRICAL SERVICE	BASIS OF DESIGN	NOTES
WH-01	N. GAS	50	138	76	120V., 1ph	A.O.SMITH MODEL BTX-80	1, 2, 3, 4

NOTES:
1. PROVIDE PIPING, VALVES AND ACCESSORIES PER DETAILS.
2. PROVIDE RECIRCULATING PUMP AND PIPING PER DETAIL.
3. PROVIDE WITH MANUFACTURER'S CONCENTRIC VENT TERMINATION KIT.
4. PROVIDE WITH MANUFACTURER CONDENSATE NEUTRALIZATION KIT.

MOTOR STARTER SCHEDULE

SERVING	HP OF EACH LOAD	ELECTRICAL CHARACTERISTICS	BASIS OF DESIGN	NOTES [1]
CP-01	1/12	120V.,1ph	FRANKLIN CONTROLS MODEL BAS-1P	1, 2, 3

[1] NOTES
1. COORDINATE CONTROL CONTACTOR REQUIREMENTS WITH ENERGY MANAGEMENT SYSTEM (EMS) TO ACHIEVE SPECIFIED SEQUENCE OF OPERATIONS.
2. MOUNT STARTER WITHIN 10' OF EQUIPMENT SERVED. COORDINATE IN FIELD SPECIFIC LOCATION.
3. COMBINATION MOTOR STARTER/DISCONNECT.

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

DAMMON ENGINEERING, INC.
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#	DESCRIPTION	DATE

REVISIONS

SEAL:

STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 20187
PROFESSIONAL ENGINEER

NEW MEDICAL OFFICE
DIANA OAK HARBOR REAL ESTATE LLC
340 OAK HARBOR BLVD
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JOB No:	2513	DATE:	05-16-2025
DRAWN BY:	CKD	CHECKED BY:	BAM

SHEET TITLE:
PLUMBING SCHEDULES

DRAWING NUMBER:
P2

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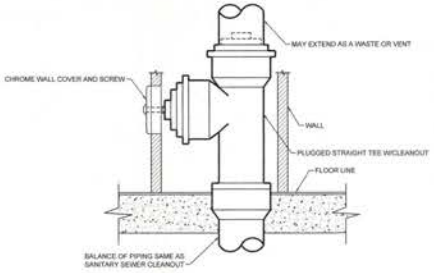
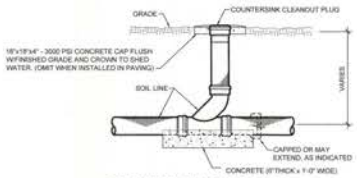


WALL CLEANOUT DETAIL

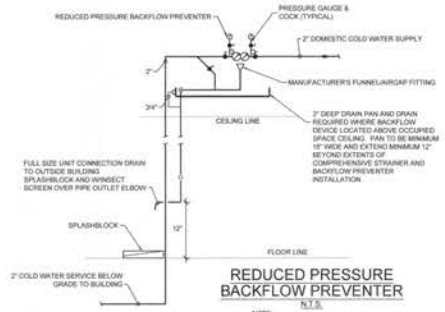
N.T.S.

NOTE:
EXAMPLE SHOWN IS CAST IRON. PVC/DWV EXAMPLE SIMILAR.



ONE-WAY FLUSH GRADE CLEANOUT DETAIL

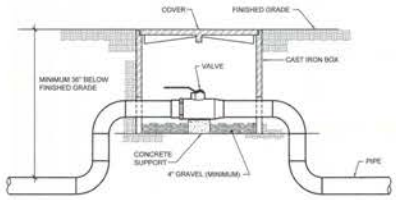
N.T.S.



REDUCED PRESSURE BACKFLOW PREVENTER

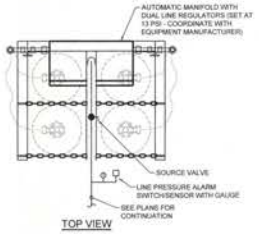
N.T.S.

NOTE:
INSULATED WATER PIPING AND DRAIN PIPING CONCEALED IN WALL.

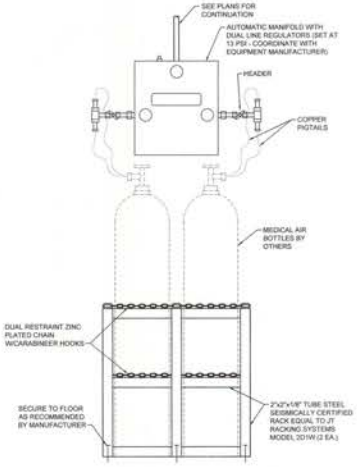


TYPICAL VALVE BOX DETAIL

N.T.S.



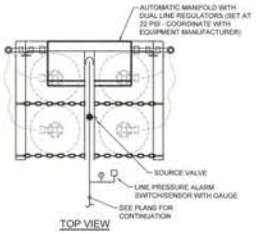
TOP VIEW



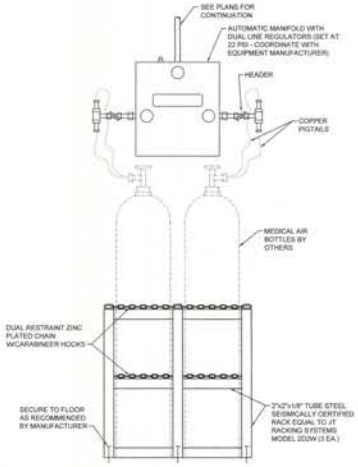
FRONT VIEW

CARBON DIOXIDE MANIFOLD DETAIL

N.T.S.



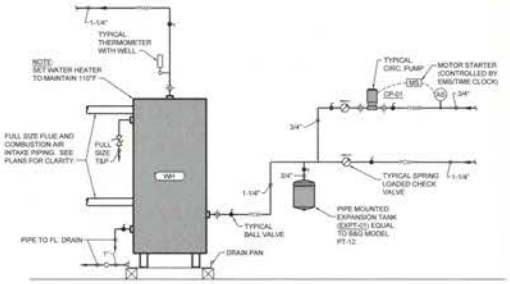
TOP VIEW



FRONT VIEW

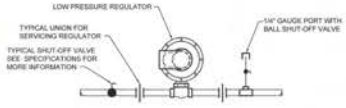
MIXED GAS MANIFOLD DETAIL (89%NIT, 6%CO2, 5% OXY)

N.T.S.



WATER HEATER (WH-01) DETAIL

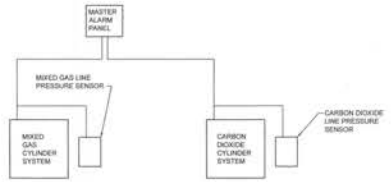
N.T.S.



GAS REGULATOR DETAIL

N.T.S.

NOTES:
1. PROVIDE VENT TO OUTDOORS FOR ALL REGULATORS LOCATED INSIDE BUILDING.
2. SEE PLANS FOR PIPE SIZES.
3. SEE REGULATOR SCHEDULE FOR INLET PRESSURE, OUTLET PRESSURE AND MBH (CFH) REQUIREMENTS.



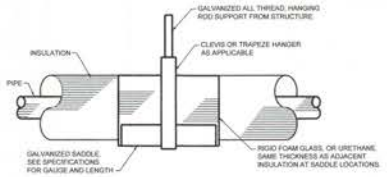
ALARMS REQUIRED:
1. LOW MIXED GAS LINE PRESSURE
2. HIGH MIXED GAS LINE PRESSURE
3. RESERVE IN USE
4. SPARE PAIRS QUANTITY - 2

ALARMS REQUIRED:
1. LOW CARBON DIOXIDE LINE PRESSURE
2. HIGH CARBON DIOXIDE LINE PRESSURE
3. RESERVE IN USE
4. SPARE PAIRS QUANTITY - 2

LABORATORY GAS ALARM WIRING SCHEMATIC

N.T.S.

NOTES:
1. EACH LINE REPRESENTS CONDUIT/WIRE FROM EQUIPMENT TO MEDICAL GAS ALARM PANEL.
2. EACH MASTER ALARM PANEL SHALL BE WIRED INDIVIDUALLY BACK TO SOURCE EQUIPMENT AS SHOWN.
3. EACH INDIVIDUAL ALARM REQUIRES ONE PAIR OF WIRES EACH.
4. SPARES LISTED UNDER ALARMS INDICATES QUANTITY OF EXTRA PAIRS OF WIRES TO BE INSTALLED FOR FUTURE.
5. ALL WIRING SHALL BE 18 GA. INDIVIDUALLY SHIELDED PAIRS WHICH ARE ALSO SHIELDED ON OVERALL BUNDLE OF PAIRS
8. ALL WIRING SHALL BE ROUTED IN CONDUIT PER DIV. 26 REQUIREMENTS



HORIZONTAL PIPE INSULATION AND HANGING DETAIL

N.T.S.

NOTE: UNINSULATED GAS PIPING SIMILAR

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