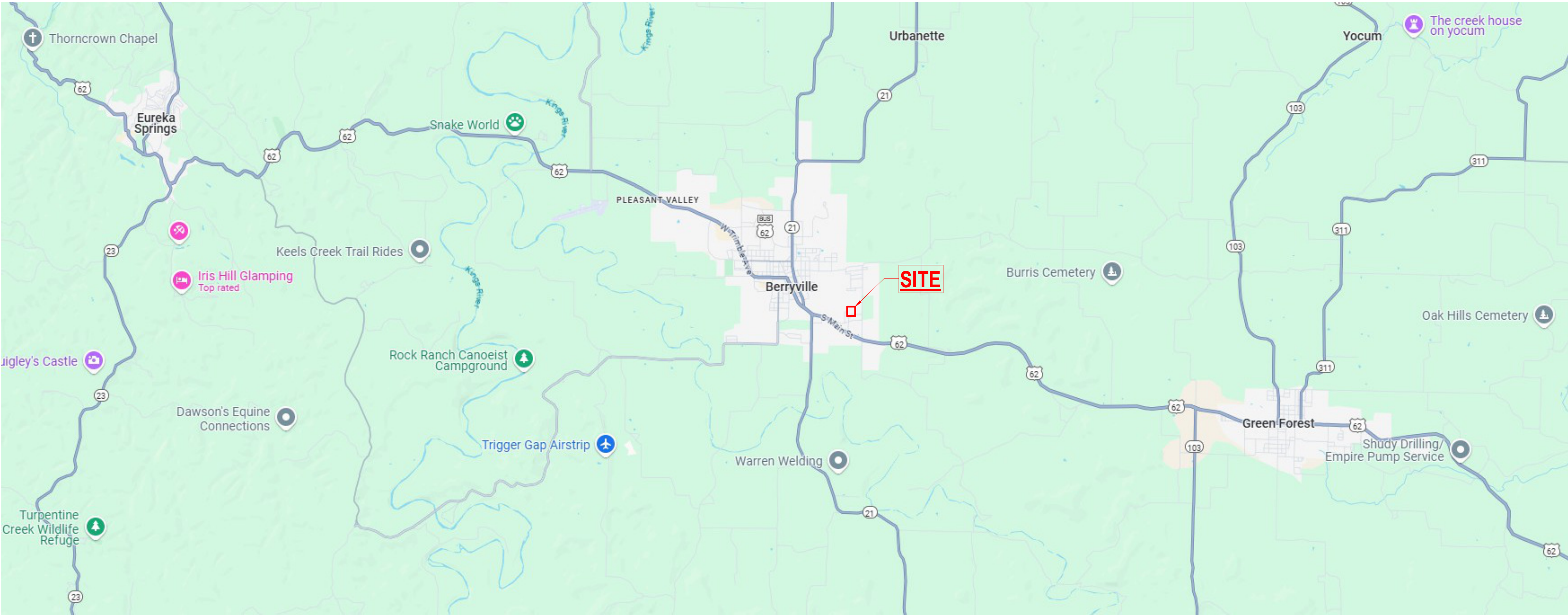


CONSTRUCTION DOCUMENTS		
Revisions		
No.	Date	Description
1	07-28-2025	ADD 001
2	07-06-2026	CCD 001

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Notes	
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Project Number	2025-020
Issue Date	07-14-2025
Sheet Title	TITLE SHEET
Sheet Number	G-001

MERCY HOSPITAL BERRYVILLE

RTU-11 REPLACEMENT



INDEX OF DRAWINGS

SHEET NUMBER	SHEET NAME	ISSUE DATE	REVISION	REVISION DATE
G-001	TITLE SHEET	07-14-2025	ADD 001	07-28-2025
G-101	INTERIM RISK MEASURE REFERENCE	07-14-2025	~	~
ME001	MECHANICAL / ELECTRICAL LEGEND AND SYMBOLS	07-14-2025	ADD 001	07-28-2025
MD101	DEMOLITION AND CEILING PLANS	07-14-2025	CCD 001	07-06-2026
ME101	ENLARGED MED SURG FLOOR PLAN	07-14-2025	CCD 001	07-06-2026
ME102	ENLARGED ROOF PLAN	07-14-2025	ADD 001	07-28-2025
M-501	DETAILS	07-14-2025	~	~
M-502	DETAILS	07-14-2025	~	~
M-601	MECHANICAL SCHEDULES	07-14-2025	ADD 001	07-28-2025
M-701	MECHANICAL CONTROLS	07-14-2025	ADD 001	07-28-2025

CONSTRUCTION DOCUMENTS

July 14, 2025

CLIENT:

Mercy Hospital Berryville
214 Carter Street
Berryville, AR 72616

DESIGN TEAM:

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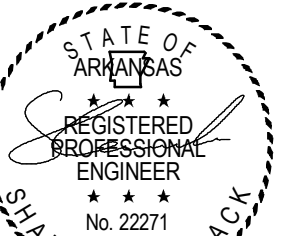
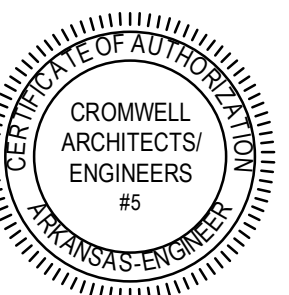
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Issue Date 2025-020
07-14-2025

Sheet Title _____

DETAILS

Sheet Number _____

M-502

ROOF TOP UNIT (W/ GAS HEAT)																																						
MARK	SERVES	MAX. SUPPLY CFM	DESIGN SUPPLY CFM	MIN. SUPPLY CFM	RETURN CFM	O/A CFM	COOLING CAPACITY (MBH)				SUPPLY FAN			PRE-FILTER	FINAL FILTER	RELIEF FAN				HEATING		HOT GAS REHEAT		CONDENSING UNIT				AMBIENT TEMP (°F)	ELECTRICAL				IEER	WEIGHT* (LBS)	BASIS OF DESIGN	NOTES		
							TOTAL	SENSIBLE	MIXED AIR DB (°F) WB (°F)		TYPE	HP	ESP (IN. WG)			TYPE	HP	CFM	ESP (IN. WG)	FUEL	STEPS	INPUT (MBH)	OUTPUT (MBH)	MBH	TEMP. RISE (°F)	CONDENSER FAN			COMPRESSOR		MCA	MOCp					VOLTS	Ø
RTU-11	MED. SURG.	3,600	3,200	1,800	1,400	1,800	182.8	123.0	86.0	69.5	DDP	3.0	0.95	MERV-8	MERV-14	DDP	1.0	1,800	0.20	NG	10	293	235	72.9	25	NO. 2	TYPE PROP	NO. 2	TYPE SCROLL	100.0	90	110	208	3	15.5	2,600	AAON RNA-015	1,2

NOTES:

1.	ROOFTOP MOUNTED SINGLE ZONE VAV PACKAGED UNIT WITH MANUFACTURER STANDARD FINISH. PROVIDE WITH MANUFACTURER'S INSULATED CURB, MODULATING HOT-GAS REHEAT, LOW-AMBIENT KIT, STAINLESS STEEL HEAT EXCHANGER, MULTI-POSITION OUTDOOR AIR DAMPER, Bacnet / MSTP FACTORY CONTROLLER, AND OUTSIDE AIR HOODS W/ MESH FILTER.
2.	INSTALL THREE LAYERS OF OVERLAPPING 1/2" GYPSUM BOARD ON INTERIOR FACE OF THE ROOFTOP CURB SUPPORT FOR SOUND DAMPENING.
*	INCLUDES CURB WEIGHT

AIR DEVICE				KEY NO. IF MORE THAN ONE MARK NECK SIZE CFM 210 8	
MARK	TYPE	DESCRIPTION	SIZE	BASIS OF DESIGN	NOTES
A	SUPPLY	SQUARE PLAQUE	24"x24"	TITUS OMNI-AA	1
B	RETURN	PERFORATED	24"x24"	TITUS PAR-AA	2

NOTES:

1. SQUARE PANEL FACE FOR NOMINAL 24"x24" LAY-IN CEILING. ALUMINUM CONSTRUCTION, WHITE FINISH, PROVIDE MANUFACTURER'S BACKPAN INSULATION BLANKET.
2. PERFORATED SCREEN WITH 3/16" DIAMETER HOLES ON 1/4" STAGGERED CENTERS FOR LAY-IN CEILING. ALUMINUM CONSTRUCTION, WHITE FINISH, PROVIDE SQUARE TO ROUND TRANSITION. PROVIDE MANUFACTURER'S BACKPAN INSULATION BLANKET.

VENTILATION SCHEDULE																						
ROOM	ROOM TYPE	AREA (SF)	CEILING HEIGHT (FT)	VOLUME (CF)	SERVED BY	CODE REQUIREMENTS						DESIGN				ROOM DESIGN SUMMER (DB°F / WB°F)	ROOM DESIGN WINTER (DB°F / WB°F)	OSA DESIGN SUMMER (DB°F / WB°F)	OSA DESIGN WINTER (DB°F / WB°F)	NOTES		
						AC/H	OUTSIDE AIR AC/H	AIR FLOW MOVEMENT	SUPPLY (CFM)	OUTSIDE AIR (CFM)	EXHAUST (CFM)	FINAL FILTRATION	SUPPLY (CFM)	RETURN (CFM)	OUTSIDE AIR (CFM)						EXHAUST (CFM)	FINAL FILTRATION
C-0104 CORRIDOR (MED SURG)	PATIENT CORRIDOR	2,610	10	26,100	RTU-11	2	-	-	870	0	0	MERV-14	2,800	1,250	1,400	0	MERV-14	72 / 60	72 / 60	95.1 / 74.2	10.9 / 9.0	1
045 MED ROOM	MEDICATION ROOM	225	10	2,250	RTU-11	4	2	OUT	150	75	0	MERV-8	200	150	100	0	MERV-14	72 / 60	72 / 60	95.1 / 74.2	10.9 / 9.0	-

NOTES: 1. EXCESS SUPPLY AIR IS USED FOR EXHAUST MAKEUP TO PATIENT BATHROOMS. SUITE PRESSURIZATION WILL BE MONITORED AND CONTROLLED BY RETURN FAN IN AIR SUPPLY UNIT.

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479.320.2741

Project

**MERCY HOSPITAL BERRYVILLE
RTU - 11 REPLACEMENT**
214 CARTER STREET, BERRYVILLE, AR 72616

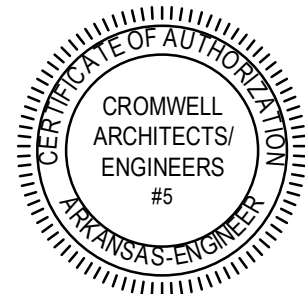
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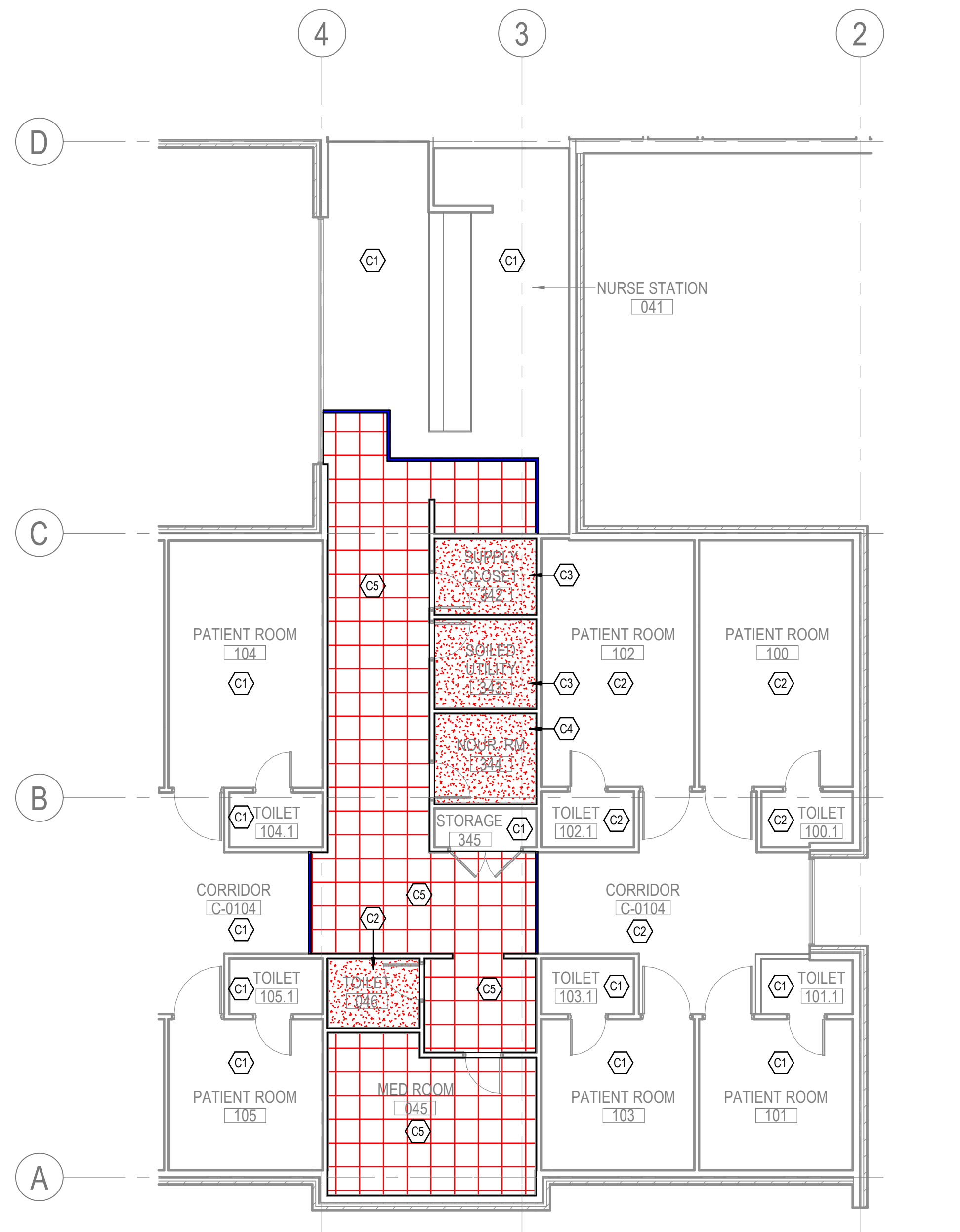
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Sheet Title

MECHANICAL SCHEDULES

Sheet Number

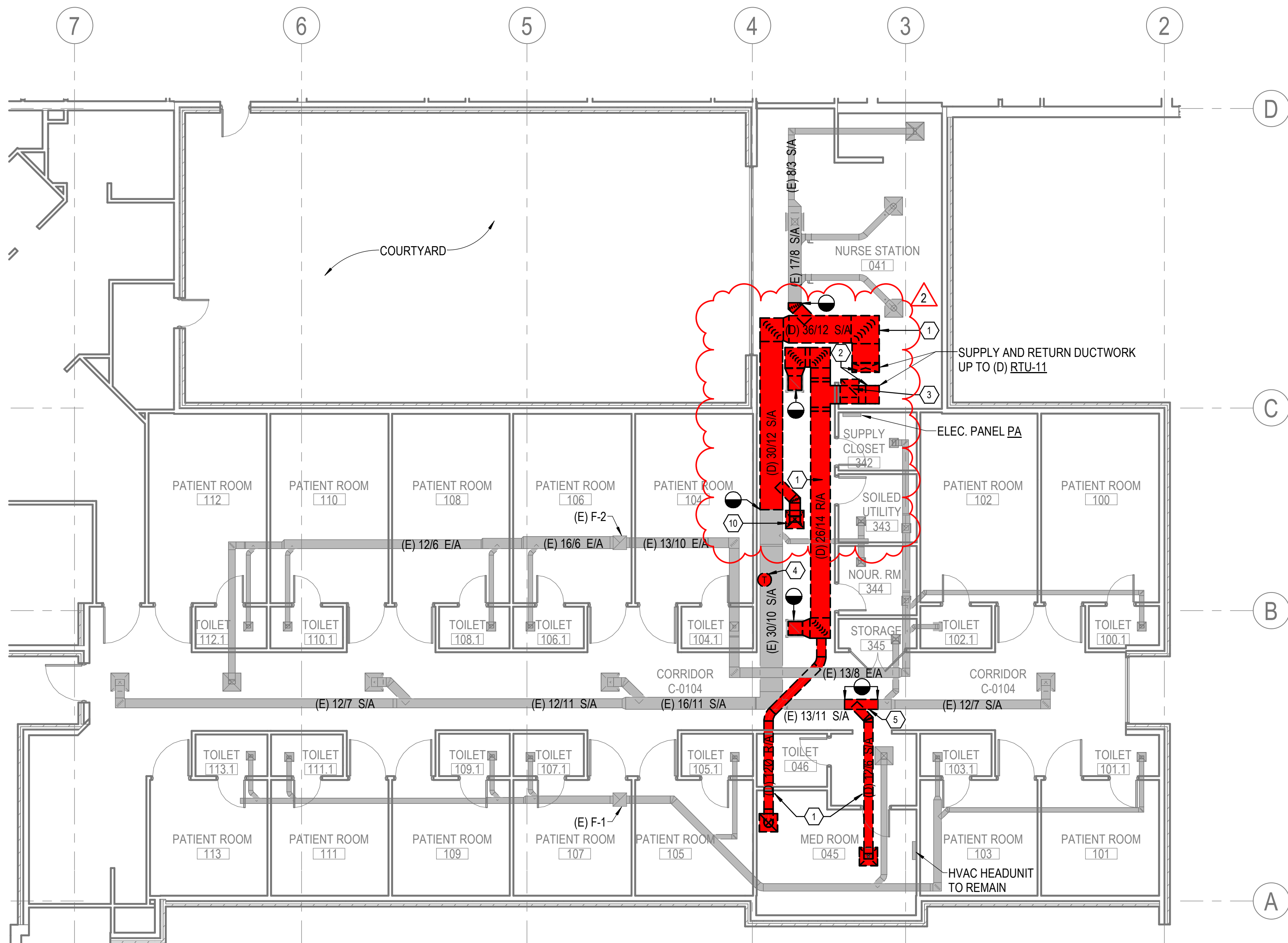
M-601



3 ENLARGED MED SURG CEILING PLAN
1/8" = 1'-0" 0 8 16 32 NORTH

CEILING WORK KEYED NOTES

- C1 NO CEILING WORK EXPECTED - CEILING TO REMAIN. REPAIR ANY DAMAGE RESULTANT OF CONSTRUCTION ACTIVITIES TO MATCH EXISTING.
- C2 CEILING MODIFICATIONS MAY BE REQUIRED TO FACILITATE ABOVE CEILING CHANGES. FIELD VERIFY EXTENT OF REQUIRED CHANGES AND COORDINATE WITH OWNER FOR SCOPE OF CEILING REMOVAL/MODIFICATION.
- C3 DEMOLISH ENTIRETY OF CEILING TO FACILITATE CONSTRUCTION ACTIVITIES. INSTALL REPLACEMENT CEILING MATCHING EXISTING AND REINSTALL ALL CEILING DEVICES IN THEIR ORIGINAL LOCATIONS (INCLUDING, BUT NOT LIMITED TO: LIGHTS, AIR DEVICES, FIRE ALARMS, SPRINKLER HEADS, ACCESS HATCHES, ETC). FINISH AND PAINT TO MATCH EXISTING.
- C4 DEMOLITION AND REPLACEMENT OF EXISTING CEILING MAY BE REQUIRED DURING STRUCTURAL STEEL MODIFICATIONS FOR NEW HVAC UNIT. CEILING MAY REMAIN AS-IS IF NO WORK IS REQUIRED ABOVE CEILING - FIELD VERIFY.
- C5 DROP CEILING WITHIN WORK AREA TO BE REMOVED. CONTRACTOR TO CAREFULLY REMOVE EXISTING CEILING TILES AND CEILING DEVICES (INCLUDING, BUT NOT LIMITED TO: LIGHTS, AIR DEVICES, FIRE ALARMS, SPRINKLER HEADS, ACCESS HATCHES, ETC). CEILING TILES SHALL BE STORED IN OWNER PROVIDED STORAGE SPACE. DEMOLISH CEILING T-BAR TO FACILITATE NEW CONSTRUCTION - FIELD VERIFY EXTENT OF DEMOLITION REQUIRED. UPON COMPLETION OF ABOVE-CEILING WORK, THE CONTRACTOR SHALL INSTALL NEW T-BAR TO MATCH EXISTING AND REINSTALL CEILING TILES AND CEILING DEVICES IN THEIR ORIGINAL LOCATION. THE OWNER SHALL PROVIDE REPLACEMENT CEILING TILES AS NEEDED TO REPLACE DAMAGED OR BROKEN TILES.



1 MED SURG DEMOLITION PLAN
1/8" = 1'-0" 0 8 16 32 NORTH



2 ROOF DEMOLITION PLAN
1/8" = 1'-0" 0 8 16 32 NORTH

GENERAL NOTES

1. REFER TO SHEET ME001 FOR MECHANICAL NOTES, ABBREVIATIONS, AND LEGEND SYMBOLS.

KEYED NOTES

- 1 REMOVE DUCTWORK AND INSULATION TO LOCATION INDICATED. PREPARE DUCTWORK CONNECTION TO BE REUSED FOR CONNECTION IN NEW WORK. FIELD VERIFY ACTUAL ROUTING AND CONNECTION POINT.
- 2 DEMOLISH DUCTWORK, INSULATION, AND DUCT TRANSITION UP TO (D)RTU-11. DEMOLISH EXISTING THERMOSTAT.
- 3 DEMOLISH CEILING AIR DEVICE AND DUCTWORK BACK TO LOCATION INDICATED.
- 4 DEMOLISH WALL MOUNTED THERMOSTAT AND THERMOSTAT WIRE BACK TO UNIT.
- 5 DEMOLISH PORTION OF RECTANGULAR SUPPLY DUCTWORK AND PREPARE REMAINING DUCTWORK FOR RECONNECTION IN NEW WORK.
- 6 DISCONNECT (D)RTU-11 FROM DUCTWORK, ELECTRICAL, AND GAS UTILITIES AND REMOVE UNIT FROM CURB FOR SCRAP. CAP EXISTING CURB WATER TIGHT.
- 7 DEMOLISH EXISTING 1" NG PIPING BACK TO 2" MAIN. REMOVE ANY UNUSED ROOFTOP GAS SUPPORTS SERVING (D)RTU-11.
- 8 DISCONNECT ELECTRIC CONNECTION TO (D)RTU-11. REMOVE EXISTING CONDUIT, CONDUCTORS, AND DISCONNECT SWITCH BACK TO PANEL PA FROM WHICH IT WAS SERVED.
- 9 EXISTING SANITARY VENT TO BE RELOCATED IN NEW WORK. FIELD VERIFY EXACT LOCATION AND TOTAL QUANTITY. DEMOLISH VENT PIPING AND SEAL ROOF SURFACE WATERTIGHT. SEE NEW WORK FOR NEW LOCATION. REFER ME102.
- 10 REMOVE EXISTING SUPPLY AIR DEVICE AND STORE FOR REINSTALLATION IN NEW LOCATION IN NEW WORK.

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**MERCY HOSPITAL BERRYVILLE
RTU - 11 REPLACEMENT**
214 CARTER STREET, BERRYVILLE, AR 72616

Design Phase _____

CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description
1	07-28-2025	ADD 001
2	07-06-2026	CCD 001

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CROMWELL ARCHITECTS/ENGINEERS
#5

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 2277
07-14-2025

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DEMOLITION AND CEILING PLANS

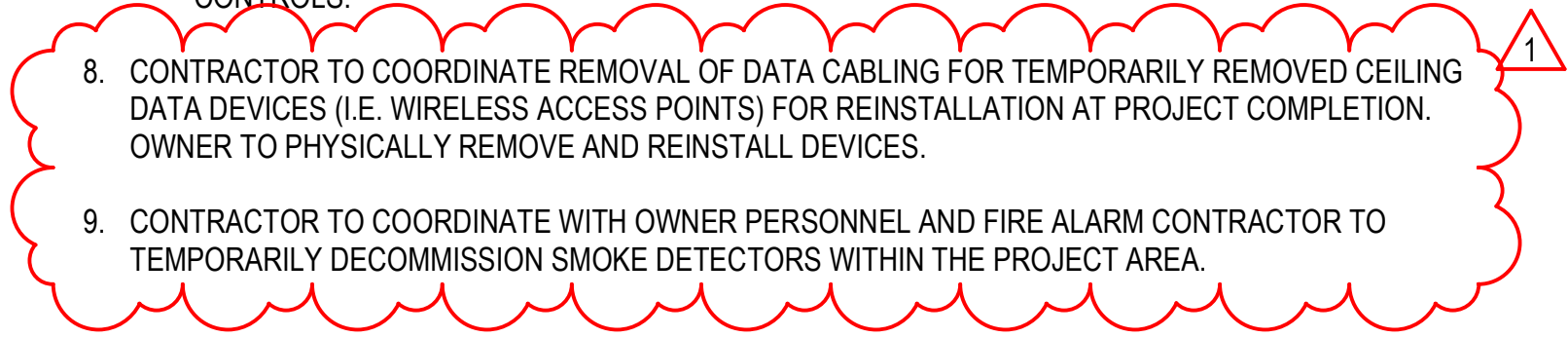
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MD101

ABBREVIATIONS				HVAC DUCTWORK LEGEND	
AFF	ABOVE FINISHED FLOOR	MBH	THOUSAND BTUs PER HOUR		SQUARE DUCT SIZE TAG (WIDTH x HEIGHT)
AHU	AIR HANDLING UNIT	MCA	MINIMUM CIRCUIT AMPS		OVAl DUCT SIZE TAG (WIDTH / HEIGHT)
BHP	BRAKE HORSE POWER	MOCP	MAXIMUM OVER CURRENT PROTECTION		ROUND DUCT SIZE TAG (DIAMETER)
BTU	BRITISH THERMAL UNIT	NC	NORMALLY CLOSED		EXISTING DUCT TAG
CFM	CUBIC FEET PER MINUTE	NO	NORMALLY OPENED		DUCT BEING DEMOLISHED
CV	CONSTANT VOLUME	NTS	NOT TO SCALE		SUPPLY AIR
CJ	CONDENSING UNIT	OA	OUTSIDE AIR		OUTSIDE AIR
DB	DRY BULB TEMPERATURE (°F)	PSI	POUNDS PER SQUARE INCH		RETURN AIR
DDC	DIRECT DIGITAL CONTROLS	PSIG	PSI GAUGE		EXHAUST AIR
DOAS	DEDICATED OUTSIDE AIR SYSTEM	PVC	POLYVINYL CHLORIDE PIPE		RECTANGULAR SUPPLY/OUTSIDE AIR DUCT RISE
DN	DOWN	RA	RETURN AIR		ROUND SUPPLY/OUTSIDE AIR DUCT RISE
EAT	ENTERING AIR TEMPERATURE	RH	RELATIVE HUMIDITY		RECTANGULAR RETURN AIR DUCT RISE
EF	EXHAUST FAN	RHC	REHEAT COIL		ROUND RETURN AIR DUCT RISE
ESP	EXTERNAL STATIC PRESSURE	R/L	REFRIGERANT LOAD AMPS		RECTANGULAR EXHAUST AIR DUCT RISE
EWT	ENTERING WATER TEMPERATURE	RPM	REVOLUTIONS PER MINUTE		ROUND EXHAUST AIR DUCT RISE
FCU	FAN COIL UNIT	RS/RL	REFRIGERANT SUCTION & LIQUID LINES		FLEXIBLE CONNECTION
FD	FIRE DAMPER	RTU	ROOFTOP AIR HANDLING UNIT		90° ELBOW W/ TURNING VANE
FLA	FULL LOAD AMPS	SA	SUPPLY AIR		90° BEND, ROUND DUCT
FPI	FINS PER INCH	SF	SUPPLY FAN		45° BEND, ROUND DUCT
FPM	FEET PER MINUTE	SP	STATIC PRESSURE		45° RECTANGULAR DUCT
GPM	GALLONS PER MINUTE	TSP	TOTAL STATIC PRESSURE		30° OR LESS FOR ALL SIMILAR FITTINGS
IV	INTAKE VENTILATOR	VAV	VARIABLE AIR VOLUME		RECTANGULAR TRANSITION
KW	KILOWATT	VRF	VARIABLE REFRIGERANT FLOW		RECTANGULAR TRANSITION
LAT	LEAVING AIR TEMPERATURE	VFD	VARIABLE FREQUENCY DRIVE		
LRA	LOCKED ROTOR AMPS	WB	WET BULB TEMPERATURE (°F)		
LWT	LEAVING WATER TEMPERATURE				
GENERAL MECHANICAL SYMBOLS					
	REVISION NUMBER SHOWN ON PLANS				
	POINT WHERE NEW CONNECTS TO EXISTING				
	DEMOLISH TO POINT INDICATED				
	NUMBER OF DETAIL ON SHEET NUMBER OF SHEET WHERE DETAIL APPEARS				
	KEYNOTE				
	<u>CONTINUATION SYMBOLS:</u>				
	ROUND DUCT				
	RECTANGULAR DUCT				
	<u>SPACE TAG:</u>				
	OFFICE → SPACE NAME				
	101 → SPACE NUMBER				
	100 SF → SPACE AREA				
	ITEM TO BE DEMOLISHED				
	AREA NOT IN CONTRACT				
HVAC ENERGY DESIGN CONDITIONS					
LOCATION:	BERRYVILLE, AR				
OUTDOOR SUMMER (0.4% OCCURRENCE):	95.1°F DB / 74.2°F WB				
OUTDOOR WINTER (99.4% OCCURRENCE):	10.9°F DB				
INSIDE SETPOINT SUMMER:	72°F DB / 60% MAX RH.				
INSIDE SETPOINT WINTER:	70°F DB				
MECHANICAL EQUIPMENT TAGS					
	RTU-XX → EQUIPMENT MARK ID				
	EVAV-XX → EQUIPMENT MARK ID				
	200 CFM → EQUIPMENT AIRFLOW				
	EVAV-XX → EQUIPMENT MARK ID				
MECHANICAL DATA DEVICES					
	MANUAL SWITCH				
	AHU-1				
	SENSOR INTERLOCK				
	SENSOR				
	THERMOSTAT				
	LOCKING COVER (OPTIONAL)				
HVAC DUCTWORK LEGEND					
	SQUARE DUCT SIZE TAG (WIDTH x HEIGHT)				
	OVAl DUCT SIZE TAG (WIDTH / HEIGHT)				
	ROUND DUCT SIZE TAG (DIAMETER)				
	EXISTING DUCT TAG				
	DUCT BEING DEMOLISHED				
	SUPPLY AIR				
	OUTSIDE AIR				
	RETURN AIR				
	EXHAUST AIR				
	DROP RECTANGULAR SUPPLY/OUTSIDE AIR DUCT RISE				
	DROP ROUND SUPPLY/OUTSIDE AIR DUCT RISE				
	DROP RECTANGULAR RETURN AIR DUCT RISE				
	DROP ROUND RETURN AIR DUCT RISE				
	DROP RECTANGULAR EXHAUST AIR DUCT RISE				
	DROP ROUND EXHAUST AIR DUCT RISE				
	FLEXIBLE CONNECTION				
	90° ELBOW W/ TURNING VANE				
	90° BEND, ROUND DUCT				
	45° BEND, ROUND DUCT				
	45° RECTANGULAR DUCT				
	30° OR LESS FOR ALL SIMILAR FITTINGS				
	RECTANGULAR TRANSITION				
	RECTANGULAR TRANSITION				
DUCT ACCESSORIES					
	FIRE DAMPER				
	SMOKE DAMPER				
	COMBINATION FIRE/SMOKE DAMPER				
	MANUAL BALANCING DAMPER				
	MOTORIZED DAMPER				
HVAC GRILLES/DIFFUSERS					
	SUPPLY DIFFUSER (SEE PLANS OR SCHEDULE FOR SIZES)				
	RETURN GRILLE (SEE PLANS OR SCHEDULE FOR SIZES)				
	EXHAUST GRILLE (SEE PLANS OR SCHEDULE FOR SIZES)				
MECHANICAL PHASING					
	NEW CONSTRUCTION MECHANICAL EQUIPMENT (TYPICAL TAG FOR ALL NEW CONSTRUCTION)				
	EXISTING MECHANICAL EQUIPMENT (TYPICAL FOR ALL EXISTING TAGS)				
	MECHANICAL EQUIPMENT FOR DEMOLITION (TYPICAL FOR ALL DEMOLITION TAGS)				
MECHANICAL SHEET SET NOTE					
* NOTE *					
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THE CONTAINED REFERENCE DRAWINGS.					

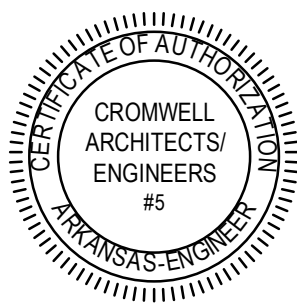
DEMOLITION NOTES

1. PROVIDE MODIFICATIONS TO NEW AND EXISTING SYSTEMS TO FACILITATE THE INSTALLATION AND INTERFACE OF NEW AND EXISTING SYSTEMS.
2. EXISTING SYSTEMS AND INFORMATION SHOWN ON THESE PLANS WERE DEVELOPED USING EXISTING BUILDING DRAWINGS AND SITE SURVEYS. CONTRACTOR SHALL VERIFY AT SITE ALL EXISTING SYSTEMS. REMOVE ALL PORTIONS OF PIPING SYSTEMS BEING REMOVED OR ABANDONED. TERMINATE EXISTING SYSTEMS ABOVE CEILINGS AND BELOW FLOOR SLABS IN A MANNER THAT WILL NOT CONFLICT WITH NEW WORK. CLOSELY COORDINATE NEW WORK WITH EXISTING SYSTEMS. PROVIDE OFFSETS IN EXISTING AND NEW SYSTEMS AS REQUIRED TO AVOID CONFLICTS.
3. COORDINATE AND SCHEDULE ALL CONNECTIONS TO EXISTING SYSTEMS AND SYSTEM SHUT-DOWNS WITH MAINTENANCE PERSONNEL.
4. EXISTING EQUIPMENT BEING REMOVED AND DESIGNATED TO REMAIN THE PROPERTY OF THE OWNER SHALL BE DELIVERED UPON REMOVAL TO LOCATION DESIGNATED BY OWNER. ALL OTHER SYSTEM COMPONENTS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
5. REMOVE AND RELOCATE SMALL CONDUIT, CABLE, PIPE, DUCT, CEILING HANGERS, ETC. AS NECESSARY TO ACHIEVE A COMPLETE INSTALLED MECHANICAL SYSTEM AS SHOWN ON DRAWINGS.
6. PATCH ALL WALLS, FLOORS, ROOFS AND CEILINGS TO MATCH EXISTING AND/OR NEW FINISHES FOR ALL OPENINGS CREATED BY DEMOLITION WORK OF EQUIPMENT AND HVAC SERVICE PENETRATIONS. REUSE OF EXISTING OPENINGS IS ENCOURAGED SO LONG AS IT IS ADVANTAGEOUS TO PROJECT SCHEDULE, COST, OR INTEGRITY.
7. CONTRACTOR SHALL SURVEY EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO:
 - * DUCT SIZES AND PENETRATION LOCATIONS.
 - * EQUIPMENT CONNECTIONS AND LOCATIONS.
 - * CONTROLS.
8. CONTRACTOR TO COORDINATE REMOVAL OF DATA CABLEING FOR TEMPORARILY REMOVED CEILING DATA DEVICES (I.E. WIRELESS ACCESS POINTS) FOR REINSTALLATION AT PROJECT COMPLETION. OWNER TO PHYSICALLY REMOVE AND REINSTALL DEVICES.
9. CONTRACTOR TO COORDINATE WITH OWNER PERSONNEL AND FIRE ALARM CONTRACTOR TO TEMPORARILY DECOMMISSION SMOKE DETECTORS WITHIN THE PROJECT AREA.



GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE 2021 EDITION OF THE "INTERNATIONAL MECHANICAL CODE", THE 2014 EDITION OF THE "ARKANSAS ENERGY CODE", NFPA 90A, NEC (NATIONAL ELECTRIC CODE), AND ALL CITY, STATE, AND LOCAL REQUIREMENTS.
2. ALL NEW EQUIPMENT SHALL BE EQUAL TO, OR EXCEED, THE PERFORMANCE AND CAPACITY OF THE SCHEDULED EQUIPMENT. THE OWNER AND ARCHITECT ENGINEER HOLD EXCLUSIVE RIGHT TO REJECT SUBSTITUTIONS FOR ANY REASON.
3. ALL DUCTWORK SHALL BE RIGID AND CONSTRUCTED FROM GALVANIZED STEEL IN CONFORMANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS," LATEST EDITION, AND BE INSULATED WITH 2" THICK GLASS FIBER WRAP.
4. U.L. LISTED FLEXIBLE DUCT RUN-OUTS MAY BE USED, BUT SHALL NOT EXCEED 5'-0" IN LENGTH. ALL FLEXIBLE DUCT TO BE PROPERLY SUPPORTED WITH NO KINKS OR HARD BENDS.
5. DUCTWORK TO BE COORDINATED WITH STRUCTURAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION, COMPONENTS AND SYSTEMS. ALL DUCTWORK THAT HAS TO BE OFFSET DUE TO AN OBSTRUCTION SHALL BE SLOPED WITH 2-30° ELBOWS UNLESS OTHERWISE NOTED.
6. CLOSELY COORDINATE LOCATIONS OF INSTALLED EQUIPMENT TO ACHIEVE THE GREATEST ACCESSIBILITY.
7. PROVIDE FLEXIBLE CONNECTIONS AT INLETS AND OUTLETS OF ALL AIR HANDLING UNIT(S).
8. ALL WALL-MOUNTED, OCCUPANT-CONTROLLED HVAC DEVICES, I.E., THERMOSTATS, HUMIDISTAT, CO2 CONTROLLERS, CONTROL PANELS, ETC., SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR. CONTROLS LOCATED IN PUBLIC AREAS SHALL HAVE CLEAR PLASTIC LOCKING COVERS.
9. COORDINATE WORK CLOSELY WITH CONTROL CONTRACTOR. PROVIDE ALL NECESSARY DUCT, PIPE TAPS, TEES, WELLS, CONTROL DAMPERS, AIR MEASURING STATIONS, AND OTHER ACCESSORIES REQUIRED BY CONTROL SYSTEM.
10. SLEEVE AND SEAL ALL PIPE AND DUCT PENETRATIONS THROUGH FIRE RATED AND NON-RATED SLABS AND PARTITIONS.
11. PROVIDE NECESSARY MODIFICATIONS TO EXISTING SYSTEMS TO FACILITATE THE INSTALLATION AND INTERFACE OF NEW AND EXISTING SYSTEMS.
12. THESE PLANS WERE DEVELOPED WITH THE USE OF EXISTING BUILDING UTILITY DRAWINGS DATED 1983, AND MAY BE OUTDATED. CONTRACTOR SHALL VERIFY AT SITE ALL EXISTING SYSTEMS AND REPORT DISCREPANCIES TO ARCHITECT ENGINEER.
13. REMOVE AND RELOCATE SMALL CONDUIT, CABLE, PIPE AND DUCT, PIPE AND CEILING HANGERS ETC. AS NECESSARY TO ACHIEVE A COMPLETE INSTALLED MECHANICAL SYSTEM AS SHOWN ON DRAWINGS.
14. MAINTAIN 25'-0" MINIMUM CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND ALL EXHAUST FANS, FLUES, PLUMBING VENTS, ETC. ALL PLUMBING VENTS WITHIN 25'-0" OF RTU-11 O/A INTAKE THAT ARE NOT CAPABLE OF BEING RELOCATED SHALL BE EQUIPPED WITH AIR ADMITTANCE VALVES. ALL PLUMBING VENTS WITHIN 10'-0" OF RTU-11 O/A INTAKE SHALL BE RELOCATED TO AT LEAST 10'-0" FROM THE O/A INTAKE AND SHALL BE EQUIPPED WITH AN AIR ADMITTANCE VALVES. ALL ABANDONED ROOF PENETRATIONS SHALL BE INFILLED AND MADE WATERTIGHT.
15. TESTING AND BALANCING SHALL BE PERFORMED BY A NEBB CERTIFIED PROFESSIONAL AND SHALL BE CONDUCTED IN ACCORDANCE WITH ASHRAE STANDARD 111 AND NEBB TAB PROCEDURES. A FINAL REPORT INDICATING COMPLIANCE WITH ALL OF ALL MEASURED AIRFLOWS MUST BE PROVIDED. ALL AIR DEVICES WITH AN INDICATED AIRFLOW SHALL BE RE-BALANCED UNLESS OTHERWISE NOTED. ALL DUCT SYSTEMS SHALL BE SEALED AND TESTED FOR AIR LEAKAGE PER SMACNA HVAC AIR DUCT LEAKAGE TEST. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
16. RTU-11 SERVES SPACES THAT ARE REQUIRED TO MAINTAIN A PRESSURE RELATIONSHIP WITH ADJACENT ROOMS. THE EXISTING PRESSURE RELATIONSHIP SHALL BE MAINTAINED UNLESS NOTED OTHERWISE.
17. NEW WORK IS TO BE COMPLETED ON AN EXISTING ROOF SURFACE. ALL WORK SHALL BE PERFORMED IN A MANNER THAT MAINTAINS THE EXISTING ROOF WARRANTY. COORDINATE ROOF WORK WITH OWNER. REFER ROOFING MODIFICATION SPECIFICATION FOR ALL REQUIREMENTS.
18. ALL ELECTRICAL DEVICES, WIRING, INSTALLATION, ETC. SHALL BE IN ACCORDANCE WITH NEC, NFPA, ADA, AND ALL APPLICABLE STATE LAWS AND CODES.
19. ALL WIRING SHALL BE IN CONDUITS. PROVIDE GROUND WIRE IN ALL CONDUITS. THE CONDUIT SHALL NOT BE USED AS GROUND. ALL CONDUIT USED IN DAMP LOCATIONS SHALL BE GALVANIZED RIGID CONDUIT (GRC) OR INTERMEDIATE METAL CONDUIT (IMC), USING ONLY THREADED COUPLINGS.
20. CONDUCTORS: SOFT-DRAWN COPPER WITH INSULATION OF 60-DEGREES C OR HIGHER FOR NO. 12 AND NO. 10 AND 75-DEGREES C OR HIGHER FOR NO. 8 AND LARGER. CONDUCTORS NO. 8 AND LARGER SHALL BE STRANDED. CONDUCTORS NO. 10 AND SMALLER SHALL BE SOLID.
21. CIRCUIT BREAKERS: MOLDED-CASE, QUICK-MAKE AND QUICK-BREAK THERMAL-MAGNETIC TYPE. BREAKERS SHALL HAVE A TRIP INDICATOR INDEPENDENT OF THE "ON" OR "OFF" POSITIONS. BREAKERS SHALL HAVE AN INTERRUPTING CAPACITY EQUAL TO THE PANEL BEING INSTALLED IN.
22. DISCONNECT SWITCHES: HEAVY-DUTY TYPE, QUICK-MAKE QUICK-BREAK OR AS SHOWN ON THE DRAWINGS. DISCONNECTS FOR MOTOR CIRCUITS SHALL BE MOTOR RATED. PROVIDE DISCONNECT SWITCHES IN NEEMA 1 ENCLOSURES, EXCEPT NEMA 3R OR NEMA 12 SHALL BE USED IN DAMP/WEAT LOCATIONS. PROVIDE OTHER ENCLOSURE RATINGS AS INDICATED. DISCONNECT SWITCHES SHALL HAVE A COVER INTERLOCK, WITH DEFEAT DEVICE, TO PREVENT UNAUTHORIZED PERSONNEL FROM OPENING THE DOOR WHEN THE SWITCH IS ON.
23. ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED IN ALL AREAS WHERE GRC OR IMC IS NOT REQUIRED BY THESE DRAWINGS OR THE NATIONAL ELECTRIC CODE. COUPLINGS AND CONNECTIONS SHALL BE COMPRESSION TYPE. IDENTIFIER TYPE FITTING SHALL NOT BE USED. FLEXIBLE STEEL CONDUIT SHALL BE USED TO CONNECT ALL MOTORS AND OTHER MOVING ELECTRICAL EQUIPMENT.
24. LABEL ALL NEW ROOFTOP EQUIPMENT WITH CIRCUIT AND PANEL LOCATION FEEDING EQUIPMENT. VERIFY EXISTING ROOFTOP SERVICE W/PGI RECEPTACES MEET THE NEC 210.63.25 RULIE. IF NECESSARY ADD ADDITIONAL W/PGI RECEPTACES NEAR NEW EQUIPMENT. EXTEND EXISTING RECEPTACLE CIRCUIT FOR NEW RECEPTACES

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Notes _____

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MECHANICAL/ELECTRICAL LEGEND AND SYMBOLS

Sheet Number _____

ME001

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Project

MERCY HOSPITAL BERRYVILLE
RTU - 11 REPLACEMENT
214 CARTER STREET, BERRYVILLE, AR 72616

- ## KEYED NOTES
- ① FIELD VERIFY STATUS OF WALL ASSEMBLY AS SMOKE OR FIRE RATED AND REPORT FINDINGS TO ARCHITECT ENGINEER. ORIGINAL CONSTRUCTION DRAWINGS INDICATE WALL AS SMOKE RATED, BUT IT IS UNKNOWN IF WALLS HAVE SINCE BEEN DECOMMISSIONED. ALL PENETRATIONS IN RATED WALLS SHALL BE SEALED WITH INTUMESCENT CAULKING AND SHALL BE PROTECTED BY THE APPROPRIATE DAMPER TYPE. IF SMOKE DAMPERS ARE REQUIRED, POWER SHALL BE INSTALLED AND CONNECTED TO EMERGENCY SYSTEMS AS REQUIRED.
 - ② TRANSITION 36/14 RECTANGULAR DUCT UP TO NEW RTU-11 SUPPLY AIR CONNECTION WITH SMOOTH RADIUS FITTINGS.
 - ③ TRANSITION 24/16 RECTANGULAR DUCT UP TO NEW RTU-11 RETURN AIR CONNECTION WITH SMOOTH RADIUS FITTINGS.
 - ④ FIELD VERIFY ACTUAL RETURN DUCT ROUTING AND LOCATION.
 - ⑤ MEDICATION ROOM SHALL BE BALANCED TO BE POSITIVELY PRESSURIZED. ADJUST INDICATED RETURN AIRFLOW VALUE AS NEEDED IN THE FIELD TO MAINTAIN POSITIVE PRESSURE.
 - ⑥ INSTALL STRUCTURAL SUPPORT FRAMING PER EACH OPENING FOR RTU-11 SUPPORT BETWEEN EXISTING JOISTS. COORDINATE EXACT LOCATION AND SIZE OF FRAMING WITH RTU-11 CURB SUBMITTAL. FRAMING TO BE INSTALLED PER DETAIL 3 / M-502.
 - ⑦ INSTALL NEW DAMPER IN WALL.
 - ⑧ INSTALL NEW ELECTRICAL CONDUIT ABOVE THE CEILING CONNECTING NEW RTU-11 TO ELECTRICAL PANEL LC3. CONTRACTOR TO INSTALL (1) ADDITIONAL 3/4" EMT CONDUIT BETWEEN THE 341 ELECTRICAL ROOM AND THE 344 NOURISHMENT ROOM FOR FUTURE OWNER USE.
 - ⑨ EXISTING SPLIT A/C UNIT TO REMAIN IN OPERATION FOR ROOM TEMPERATURE CONTROL.
 - ⑩ DIVIDED FLOW BULL HEADED TEE FITTING WITH TURNING VANES.
 - ⑪ INSTALL RELOCATED AIR DEVICE IN CEILING IN NEW LOCATION.

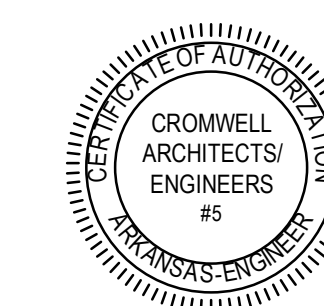
Design Phase

CONSTRUCTION DOCUMENTS

Revisions

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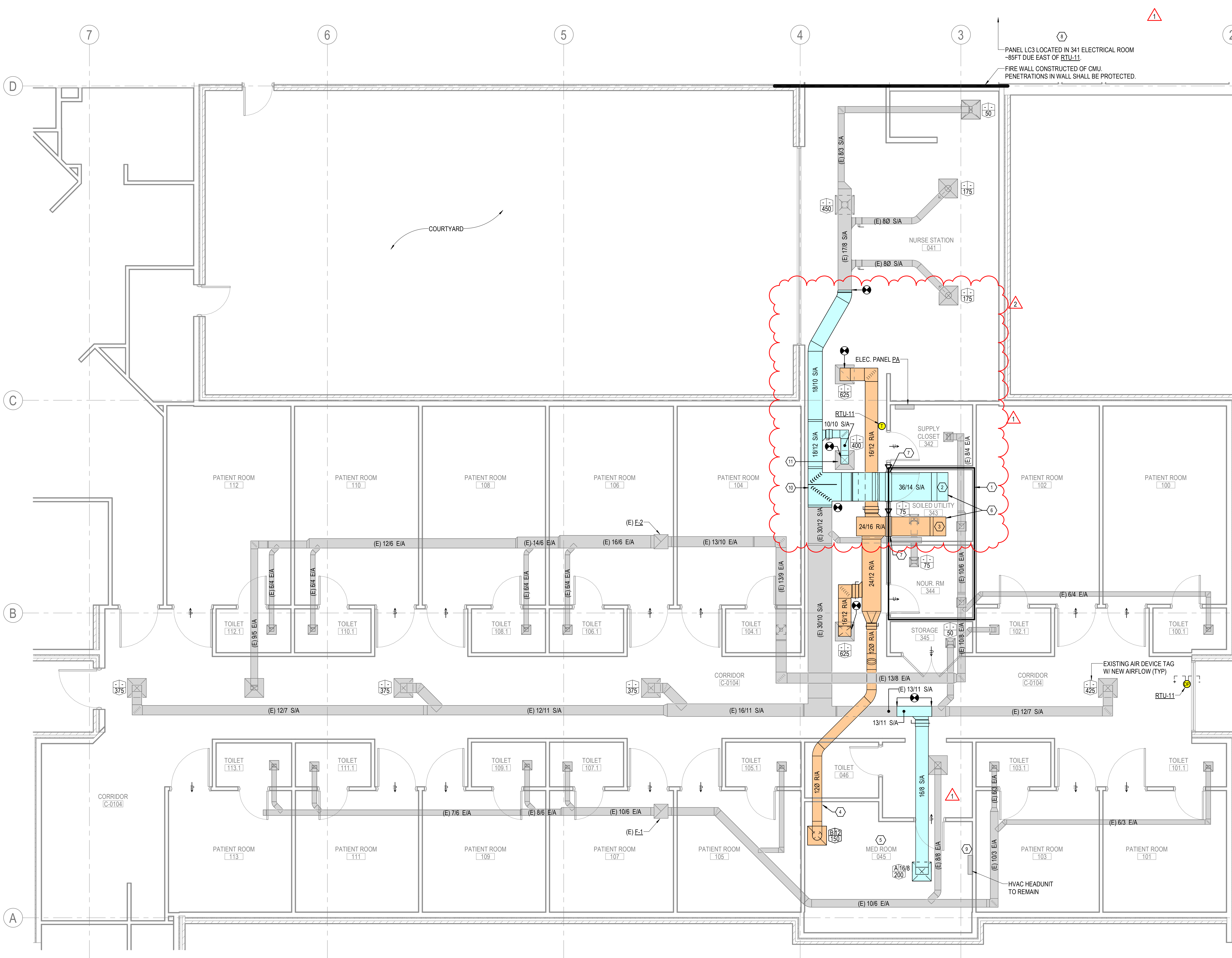
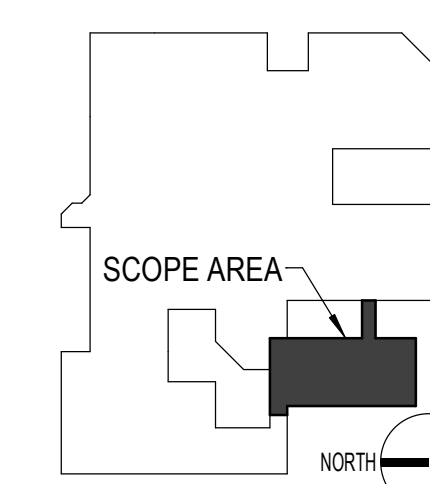
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Sheet Title

ENLARGED MED SURG
FLOOR PLAN

Sheet Number

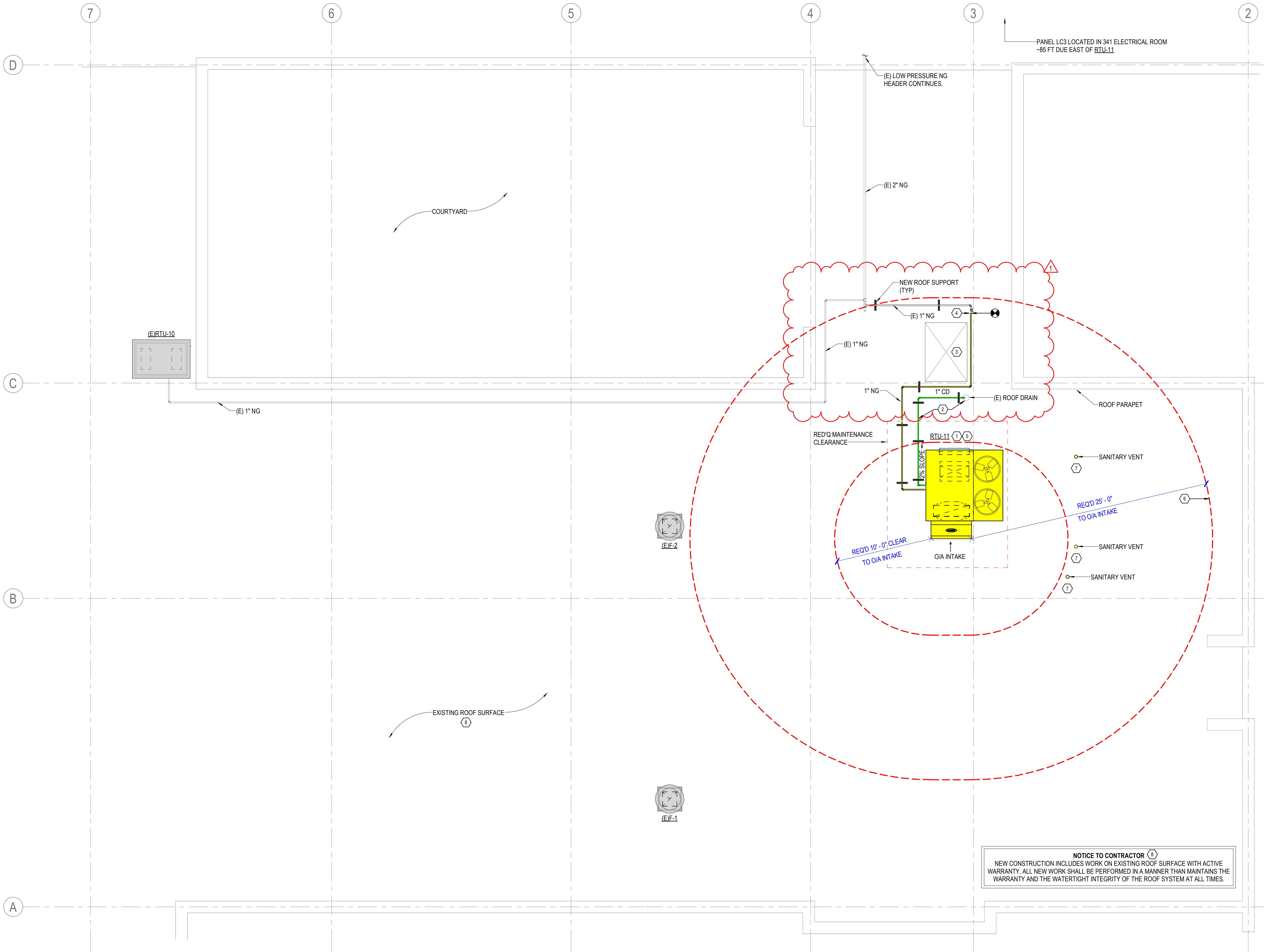
ME101



1 ENLARGED MED SURG FLOOR PLAN

1/4" = 1'-0"

NORTH



GENERAL NOTES

1. REFER TO SHEET ME001 FOR MECHANICAL NOTES, ABBREVIATIONS, AND LEGEND SYMBOLS.

KEYED NOTES

- 1 PROVIDE AND INSTALL NEW PACKAGED ROOFTOP AIR UNIT ON NEW MANUFACTURERS CURB. VERIFY ADDITIONAL STRUCTURAL SUPPORT HAS BEEN INSTALLED PRIOR TO INSTALLATION OF UNIT OR CURB. FLASH CURB AND SEAL ROOF PER DETAIL 4 / M-502 AND BELOW REQUIREMENTS. COORDINATE INSTALLATION OF THREE LAYERS OF OVERLAPPING 1/2" GYPSUM BOARD ON THE INTERIOR FACE OF THE ROOFTOP CURB SUPPORT PER UNIT SCHEDULE NOTE.
- 2 PROVIDE NEW, FULL CONNECTION SIZE PVC CONDENSATE DRAIN PIPING AND ROUTE DISCHARGE TO EXISTING ROOF DRAIN. PROVIDE UV RESISTANT COATING. INSTALL SUPPORTS 5'-0" O.C. MAXIMUM.
- 3 CAP ABANDONED CURB OPENING WATERTIGHT WITH 2" THICK RIGID INSULATED SHEET METAL. SEE "ROOFING SYSTEM MODIFICATION", THIS SHEET.
- 4 CONNECT NEW 1" NG PIPE TO EXISTING 1" NG TAP. GAS PIPING TO BE SCH. 40 BLACK STEEL WITH MALLEABLE IRON FITTINGS. SEE DETAILS 5 / M-502 & 2 / M-502 FOR RTU-11 CONNECTION AND PIPE SUPPORT.
- 5 PROVIDE 4#1, #6G IN 2" CONDUIT TO PANEL L3C LOCATED IN 341 ELECTRICAL ROOM. INSTALL (1) 110A, 3 POLE BREAKER IN EMPTY SPACES 38.40.42. PROVIDE 200A, 3 POLE, NEMA 3R DISCONNECT FOR NEW RTU UNIT. COORDINATE DISCONNECT LOCATION WITH MECHANICAL PRIOR TO ROUGH IN. ROUTE ALL CONDUITS WITHIN CURB AND UNDER CEILING TO ELECTRICAL ROOM. REFER ME101.
- 6 INSTALL AIR ADMITTANCE VENTS ON ALL SANITARY PLUMBING VENTS WITHIN 25'-0" OF THE O/A INTAKE FOR RTU-11 PER ASHRAE 170 SECTION 6.3.1.1. ESTIMATED (14) TOTAL VENTS. FIELD VERIFY QUANTITY AND LOCATIONS.
- 7 RELOCATED PLUMBING VENTS - REFER MD101. FIELD VERIFY FINAL LOCATION AND QUANTITY. MODIFY VENT PIPING BELOW ROOF DECK AS REQUIRED - NEW VENT PIPE MATERIAL TO MATCH EXISTING.
- 8 REFER TO SPECIFICATIONS FOR ROOFING REQUIREMENTS.

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RTU - 11 REPLACEMENT**
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Design Phase

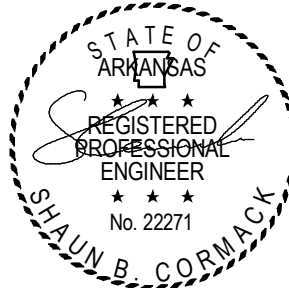
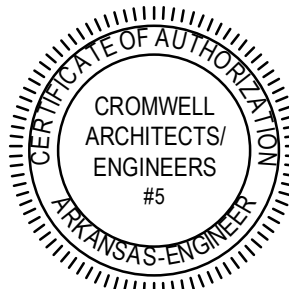
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1 07-28-2025 ADD 001

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ENLARGED ROOF PLAN

Sheet Number

ME102

1 ENLARGED ROOF PLAN
1/4" = 1'-0"

