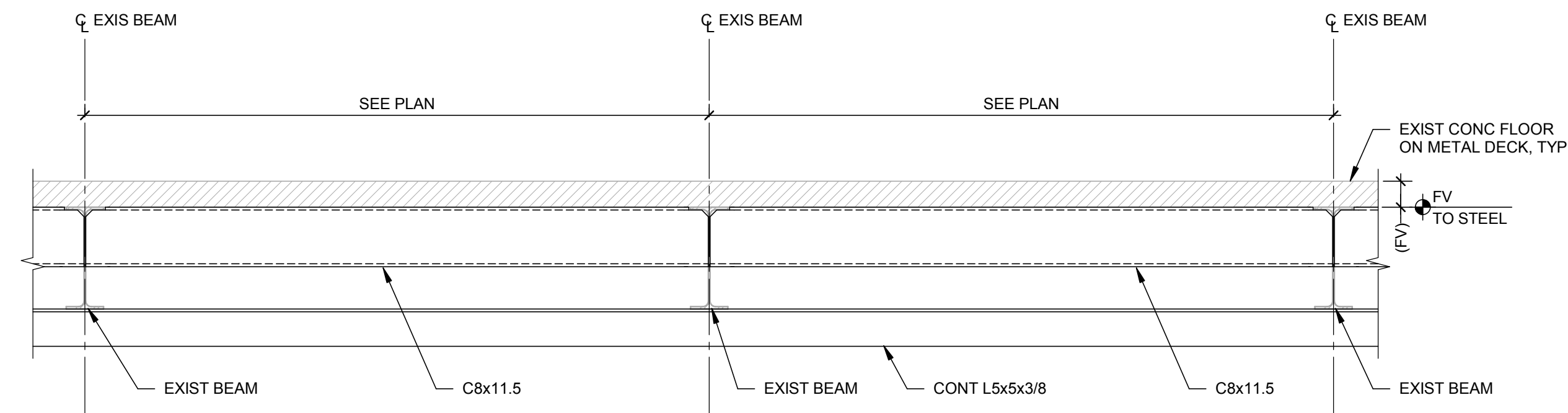


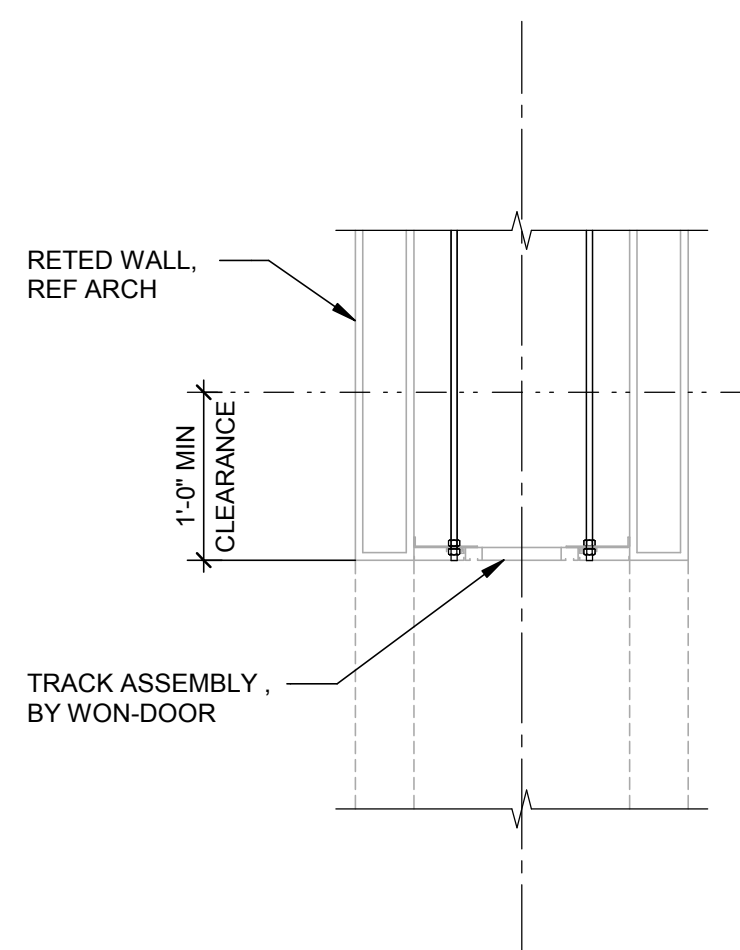
4 TYPICAL BRACING ANGLE CONNECTION

3/4" = 1'-0"



2 JOIST BRACING

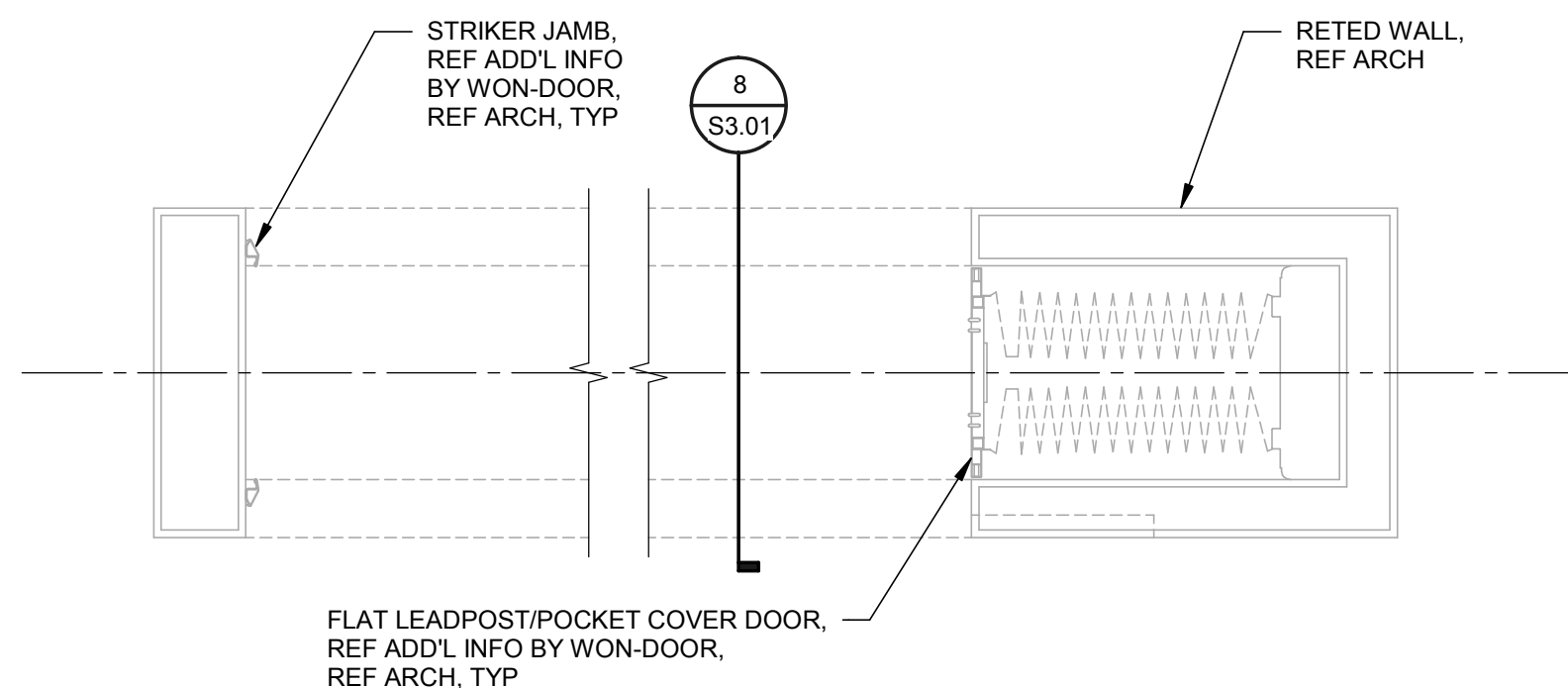
3/4" = 1'-0"



SEE DETAIL 9 AND 10/S3.01 FOR CONNECTING TO STRUCTURE ABOVE.

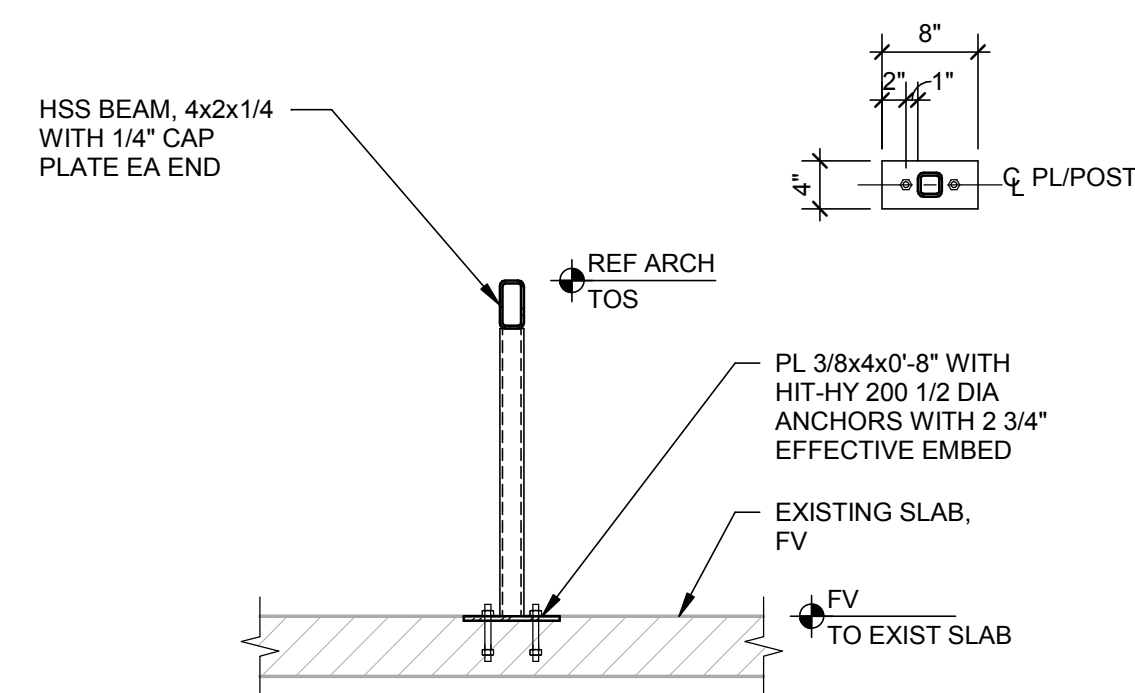
8 SECTION AT WON DOOR ASSEMBLY

3/4" = 1'-0"



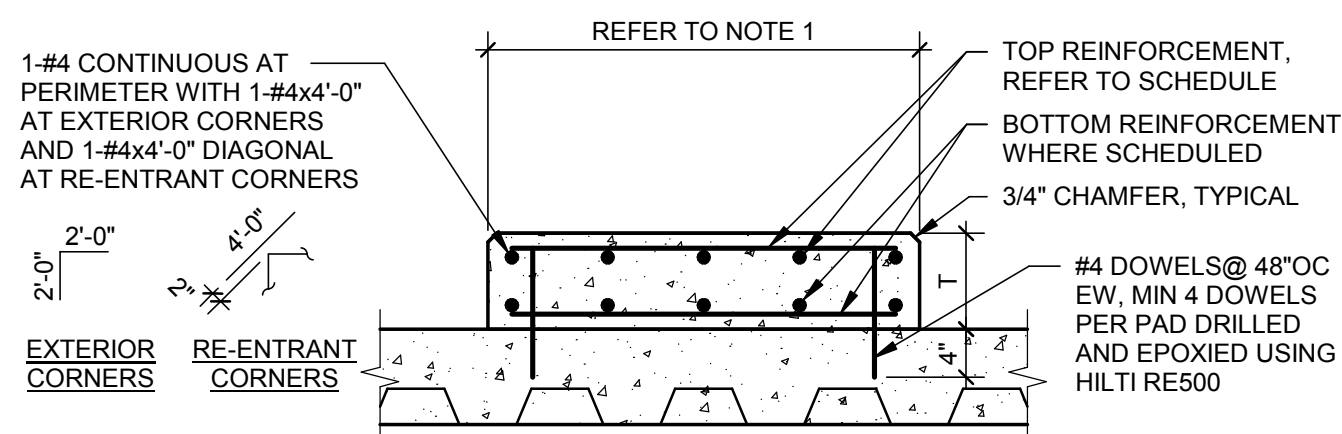
7 WON DOOR ASSEMBLY

3/4" = 1'-0"



12 SECTION

3/4" = 1'-0"

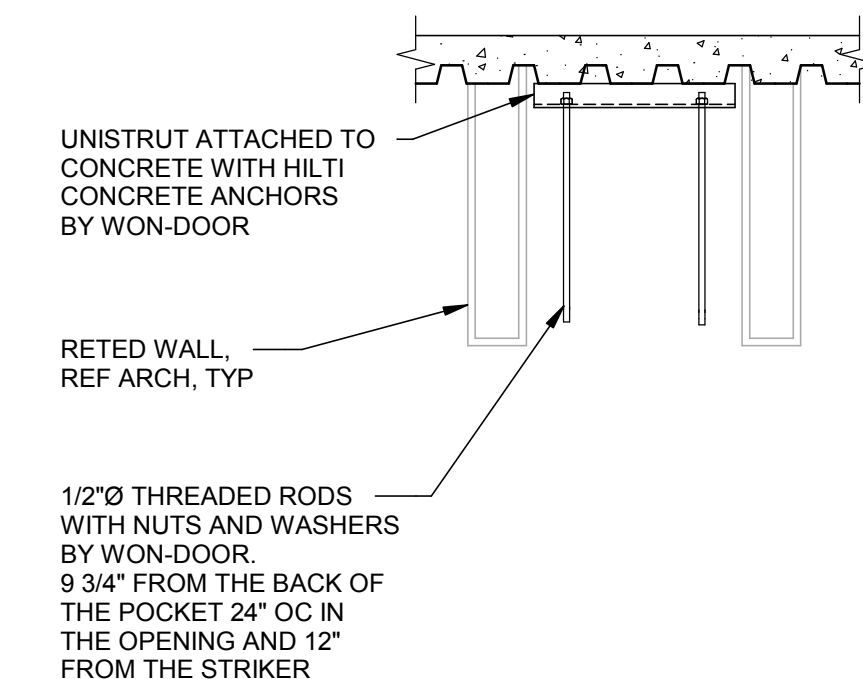


PAD THICKNESS	TOP REINFORCEMENT	BOTTOM REINFORCEMENT
T = 4"	WWR 4x4-W2.9xW2.9 OR #3@12" EACH WAY	NONE
4" < T ≤ 6"	WWR 4x4-W4xW4 OR #4@18" EACH WAY	NONE
6" < T ≤ 8"	WWR 4x4-W6xW6 OR #4@12" EACH WAY	NONE
8" < T ≤ 12"	#4@18" EACH WAY	#4@18" EACH WAY
12" < T ≤ 16"	#4@12" EACH WAY	#4@12" EACH WAY

- NOTES:
- REFER TO ARCHITECTURAL, STRUCTURAL OR MEP DRAWINGS FOR HOUSEKEEPING PAD PLAN DIMENSIONS AND THICKNESS (4" MINIMUM THICKNESS).
 - CONTRACTOR SHALL COORDINATE DIMENSIONS AND OTHER SPECIAL REQUIREMENTS WITH EQUIPMENT MANUFACTURERS AND PROVIDE WHERE REQUIRED WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT.
 - MAKE SURE TO LOCATE DOWELS WITHIN THE VALLEYS OF THE DECK.

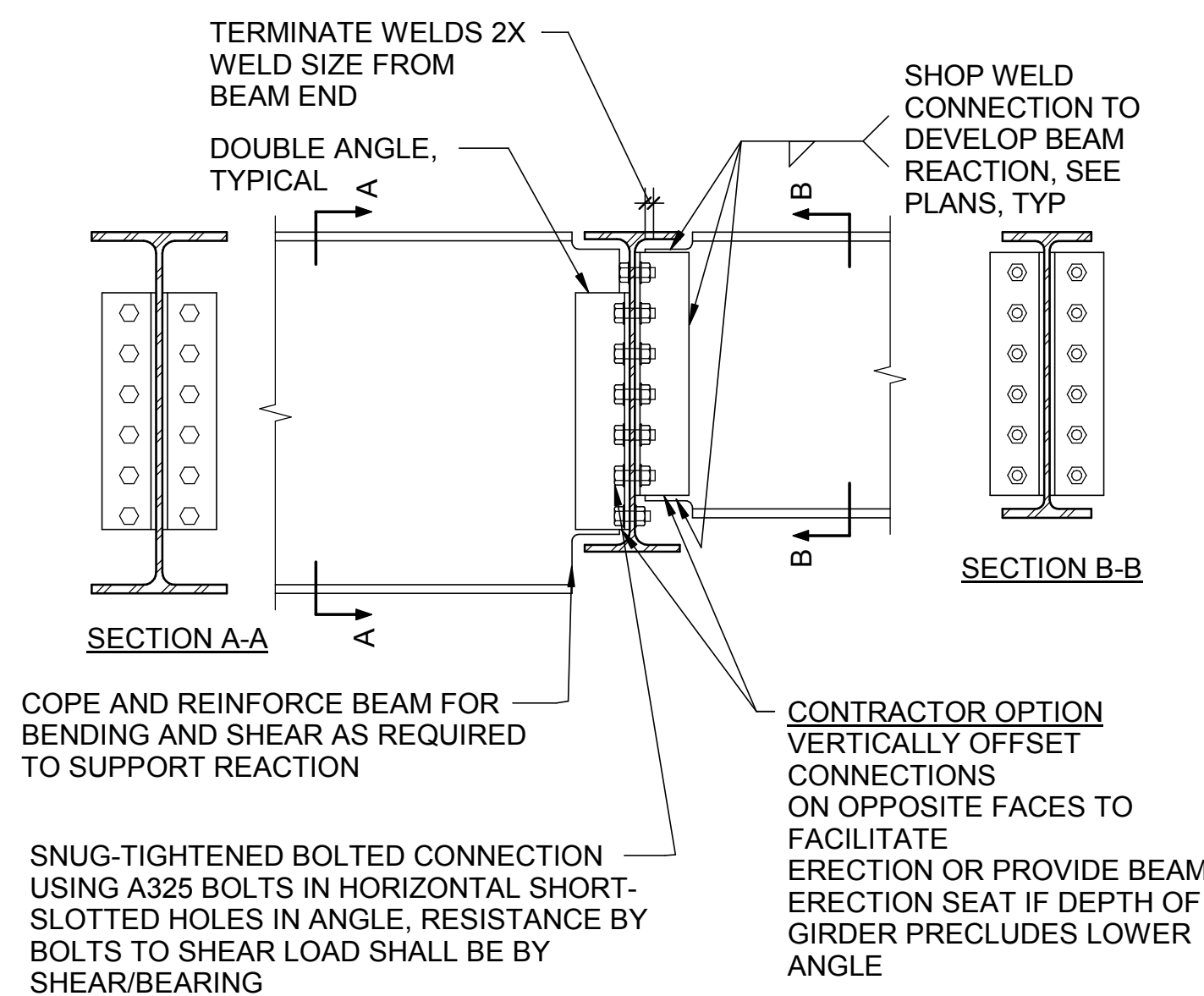
11 HOUSEKEEPING PAD OVER COMPOSITE DECK

NO SCALE



10 WON DOOR SECTION FOR MOUNTING TO COMPOSITE DECK

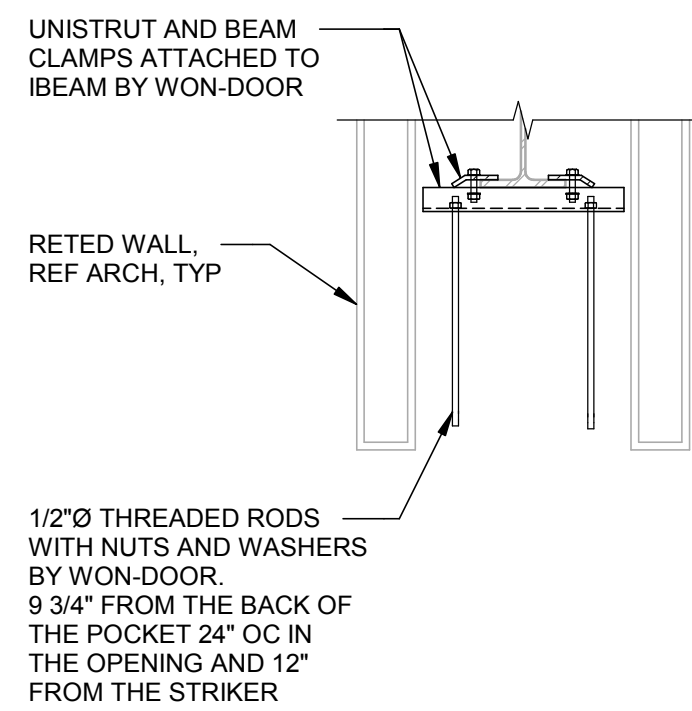
3/4" = 1'-0"



- NOTES:
- REFER TO SPECIFICATIONS FOR CONNECTION DESIGN CRITERIA.
 - PROVIDE PREDESIGNED CONNECTIONS AS SHOWN IN AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL WHERE APPLICABLE.

5 TYPICAL BEAM-TO-BEAM SHEAR CONNECTION

NO SCALE



9 WON DOOR SECTION FOR MOUNTING TO BOTTOM OF WIDE FLANGE BEAM

3/4" = 1'-0"

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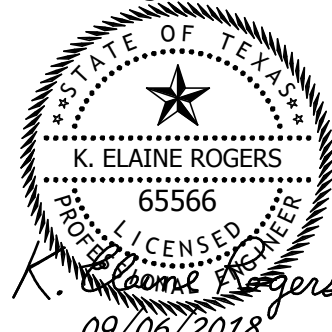
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Structural Engineers, LLC
TBPE Firm Registration No. 8755



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1	ISSUED FOR BID	09/06/2018
NO.	ISSUE	DATE
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DATE		09/06/2018
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		TITLE

FRAMING DETAILS

SHEET

S3.01

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MECHANICAL ABBREVIATIONS			
ACCU – AIR COOLED CONDENSING UNIT	LWT – LEAVING WATER TEMPERATURE(F)		
AFF – ABOVE FINISHED FLOOR	MBH – BTUH X 1000		
BDD – BACKDRAFT DAMPER	MVD – MANUAL VOLUME DAMPER		
BHP – BRAKE HORSEPOWER	(N) – NEW		
BTUH – BRITISH THERMAL UNITS / HR	NC – NORMALLY CLOSED		
CAV – CONSTANT AIR VOLUME	NO – NORMALLY OPEN		
CFH – CUBIC FEET PER HOUR	OA – OUTSIDE AIR		
CFM – CUBIC FEET PER MINUTE	OAT – OUTSIDE AIR TEMPERATURE		
CH – AIR COOLED CHILLER	OBD – OPPOSED BLADE DAMPER		
CHP – CHILLED WATER PUMP	PRV – PRESSURE REDUCING VALVE		
DB – DRY BULB TEMPERATURE (F)	PSIG – POUNDS PER SQUARE INCH (GAUGE PRESSURE)		
EA – EXHAUST AIR	RA – RETURN AIR		
EAT – ENTERING AIR TEMPERATURE (F)	RTU – ROOF TOP UNIT		
EWI – ENTERING WATER TEMPERATURE	SA – SUPPLY AIR		
F – TEMPERATURE IN FAHRENHEIT	SWR – SIDEWALL REGISTER		
FCU – FAN COIL UNIT	TU – TERMINAL UNIT		
FPI – FINS PER INCH	UNO – UNLESS NOTED OTHERWISE		
GPH – GALLONS PER HOUR	V/PH/HZ – VOLTS/PHASE/HERTZ		
GPM – GALLONS PER MINUTE	VAV – VARIABLE AIR VOLUME		
GR/LB – GRAINS PER POUND	VFD – VARIABLE FREQUENCY DRIVE		
HP – HORSEPOWER	WB – WET BULB TEMPERATURE (F)		
HWP – HOT WATER PUMP			
IN. – INCHES			
IN.WG. – INCHES WATER GAUGE			
LAT – LEAVING AIR TEMPERATURE (F)			

MECHANICAL SYMBOLS		
		PIPE UP
		PIPE DOWN
		PIPE CAP
		90° ELBOW
		RISE OR DROP IN ELEVATION
		TEE OR BRANCH CONNECTION
		CHILLED WATER SUPPLY
		CHILLED WATER RETURN
		CONDENSER WATER SUPPLY
		CONDENSER WATER RETURN
		HEATING WATER SUPPLY
		HEATING WATER RETURN
		CONDENSATE DRAIN LINE
		BALL VALVE
		BUTTERFLY VALVE
		GLOBE VALVE
		2 WAY CONTROL VALVE
		2 WAY SOLENOID VALVE
		3 WAY SOLENOID VALVE
		PLUG VALVE
		PRESSURE REDUCING VALVE
		CHECK VALVE
		LOCK SHIELD VALVE
		SAFETY VALVE
		ANGLE VALVE
		STRAINER
		STRAINER W/ BLOWDOWN
		PETE'S PLUG
		FLEXIBLE CONNECTION
		UNION
		COMPANION FLANGE
		THERMOMETER
		PRESSURE GAUGE W/ GAUGE COCK
NOTES: NOT ALL SYMBOLS MAY BE USED.		

MECHANICAL SYMBOLS		
	100	SUPPLY GRILLE WITH AIR QUANTITY
	100R/100E	RETURN/EXHAUST GRILLE WITH AIR QUANTITY
	100	LIGHT TROFFER WITH AIR QUANTITY
	Ⓢ	THERMOSTAT
	Ⓜ	HUMIDISTAT
	Ⓜ	MAGNEHELIC PRESSURE GAUGE.
	Ⓢ	MANUAL VOLUME DAMPER
	Ⓢ	MOTORIZED VOLUME DAMPER
	BDD	BACKDRAFT DAMPER
	FD	FIRE DAMPER
	SD	SMOKE DAMPER
	FSD	COMBINATION FIRE/SMOKE DAMPER
	S _D	DUCT MOUNTED SMOKE DETECTOR
		FLEXIBLE DUCT CONNECTION
	R	RISE IN DUCT ELEVATION
	D	DROP IN DUCT ELEVATION
		SINGLE AND DOUBLE LINE DUCT WORK
	36x24	RECTANGULAR DUCT WORK
	36ø	ROUND DUCT WORK
	36x24ø	FLAT OVAL DUCT WORK
		RADIUS ELBOW
		MITERED ELBOW WITH TURNING VANES
		BRANCH CONNECTION TO MAIN
		DUCT CROSS OVER
	R	ELEVATION CHANGE
		SIDEWALL REGISTER
		MAIN BRANCH DUCT SPLIT
		SUB-BRANCH TAP AND TEE
		TRANSITIONS
		DUCT WITH INTERNAL LINER
		SUPPLY DUCT UP, DOWN
		RETURN/EXHAUST DUCT UP, DOWN
NOTES: NOT ALL SYMBOLS MAY BE USED.		

MECHANICAL GENERAL NOTES	
1. ALL EQUIPMENT, MATERIALS AND INSTALLATION METHODS AS OUTLINED IN THE EXISTING SPECIFICATIONS SHALL APPLY TO THIS PROJECT UNLESS OTHERWISE NOTED ON THESE DRAWINGS.	
2. STANDARD DETAILS ILLUSTRATED ON THE DRAWINGS SHALL BE APPLIED IN ALL CASES WHERE THE FEATURE OCCURS IN THE SYSTEM DESIGN.	
3. PRIOR TO THE SUBMISSION OF BID, THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING BUILDING CONDITIONS, UTILITY CONNECTIONS, AND PERTINENT BUILDING SERVICES.	
4. COORDINATE ALL PENETRATIONS OF BUILDING STRUCTURE PRIOR TO CORING OF SLAB, CUTTING OF WALLS, ETC.	
5. DRAWINGS ARE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DUCTWORK AND PIPING WITH OTHER TRADES AND PROVIDING OFFSETS IN DUCTWORK AND PIPING AS REQUIRED. ALL DUCTWORK SHALL BE ROUTED AS CLOSE TO STRUCTURE AS POSSIBLE WITH MAIN TRUNK DUCTS ABOVE BRANCH DUCTS TO CEILING AIR DEVICES.	
6. ALL DUCTWORK SIZES SHOWN ARE CLEAR INSIDE DIMENSION IN INCHES. SUPPLY, RETURN AND EXHAUST DUCTWORK IS EXTERNALLY INSULATED UNLESS OTHERWISE INDICATED. CONTRACTOR IS REQUIRED TO COORDINATE ACTUAL DUCT ROUTING AND SIZING AS NECESSARY FOR MAINTAINING REQUIRED CLEARANCES IN COORDINATION WITH OTHER TRADES. RESIZING OF DUCT, IF NECESSARY, SHALL BE BASED ON EQUAL FRICTION METHOD.	
7. MAJOR EQUIPMENT SHOWN ON THE PLANS AND ELEVATIONS ILLUSTRATE THE GENERAL ARRANGEMENT AND SPACE ALLOCATIONS. THE CONTRACTOR SHALL VERIFY THE SPACE REQUIREMENTS FOR EACH SYSTEM COMPONENT USING MANUFACTURER CERTIFIED SHOP DRAWINGS AND MAKE THE NECESSARY ADJUSTMENTS IN EQUIPMENT PLACEMENT AND CONNECTION IN ORDER TO ACCOMMODATE THE EXACT EQUIPMENT INSTALLED.	
8. COORDINATE MECHANICAL EQUIPMENT ABOVE CEILING WITH LIGHT FIXTURES, ELECTRICAL EQUIPMENT, AND PIPING TO CODE REQUIRED CLEARANCE AND MAINTAIN CLEARANCE FOR MAINTENANCE.	
9. PROVIDE SMOKE DETECTORS AS INDICATED ON THE MECHANICAL PLANS AND AS REQUIRED BY NFPA 90A AND LOCAL CODES.	
10. REFER TO THE ARCHITECTURAL PLANS FOR LOCATIONS OF ALL FIRE AND SMOKE RATED WALLS. PROVIDE DAMPERS IN ALL PENETRATIONS THROUGH RATED WALLS TO MATCH THE REQUIREMENTS OF THE RATED WALL. ALL FIRE, SMOKE, AND COMBINATION FIRE/SMOKE DAMPERS SHALL BE U.L. RATED.	
11. REFER TO ARCHITECTURAL CEILING PLANS FOR CEILING TYPES AND EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES. COORDINATE AIR DEVICE MOUNTING FRAMES WITH CEILING TYPES.	
12. CEILING SUPPLY AIR DIFFUSERS ARE FOUR WAY THROW UNLESS NOTED ON THE DRAWINGS WITH FLOW ARROWS. REFER TO AIR DEVICE SCHEDULE FOR ADDITIONAL INFORMATION.	
13. SIZE RIGID ROUND AND FLEX DUCT RUN-OUTS TO DIFFUSERS IN ACCORDANCE WITH THE AIR DEVICE RUNOUT SCHEDULE.	
14. REFER TO ARCHITECTURAL INTERIOR ELEVATION DRAWINGS FOR EXACT LOCATION OF ALL WALL MOUNTED DEVICES WHERE THE ARCHITECT HAS INDICATED ITEMS.	
15. THE MECHANICAL CONTRACTOR SHALL FURNISH ACCESS DOORS FOR INSTALLATION BY THE GENERAL CONTRACTOR IN WALLS AND CEILINGS WHERE ACCESS IS REQUIRED FOR CONCEALED VALVES, ADJUSTABLE EQUIPMENT, DAMPERS, AND CONTROL DEVICES.	
16. THE CONTRACTOR SHALL COORDINATE WORK AFFECTING OCCUPIED AREAS OUTSIDE OF THE SCOPE OF WORK AREA WITH THE OWNER. EXISTING UTILITIES PASSING THROUGH THE SCOPE OF WORK AREA ARE TO REMAIN IN SERVICE THROUGHOUT THE PROJECT. RELOCATION AND INTERRUPTION OF EXISTING SERVICES ARE TO BE CLOSELY COORDINATED WITH THE BUILDING OWNER TO MEET THE REQUIREMENTS OF THE HOSPITAL AND BUILDING SCHEDULE. THE CONTRACTOR'S BID SHALL INCLUDE COST FOR OVERTIME WORK AS REQUIRED TO ACCOMMODATE THE OWNER'S OPERATING SCHEDULE.	

TEMPORARY AHU NOTES	
DURING RENOVATION OF AHU-2, TEMPORARY AIR SHALL BE PROVIDED FOR THE AREAS OUTSIDE OF THE SCOPE OF WORK FROM A TEMPORARY AIR HANDLING UNIT. REFER TO SHEET M6.01 AND THE SPECIFICATIONS FOR THE LOCATION AND SPECS FOR THE UNIT.	

DRAWING INDEX	
NUMBER	DRAWING TITLE
M0.00	INFORMATION SHEET – MECHANICAL
M0.01	SCHEDULES – MECHANICAL
M1.01	DEMOLITION PLAN – MECHANICAL
M1.02	DEMOLITION PIPING PLAN – MECHANICAL
M2.01	FLOOR PLAN – MECHANICAL
M3.01	PIPING PLAN – MECHANICAL
M4.01	ENLARGED PLAN – MECHANICAL
M5.01	DETAILS – MECHANICAL
M5.02	DETAILS – MECHANICAL
MEP6.01	TEMPORARY AHU PLAN – MECHANICAL

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INFORMATION SHEET - MECHANICAL

SHEET

M0.00

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CHILLED WATER AIR HANDLING UNIT SCHEDULE																																					
GENERAL				SUPPLY FAN							RETURN FAN							PRE FILTER		FINAL FILTER		CHILLED WATER COOLING COIL												ELECTRICAL		GENERAL	
UNIT TAG	AREA	MANUFACTURER	MODEL	SA (CFM)	OA (CFM)	EXTERNAL STATIC (IN.WG.)	QUANTITY	HP (EA)	TYPE	STARTER	RETURN / EXHAUST AIRFLOW (CFM)	EXTERNAL STATIC (IN.WG.)	QUANTITY	HP (EA)	TYPE	STARTER	TYPE	DIRTY FILTER LOSS (IN.WG.)	TYPE	DIRTY FILTER LOSS (IN.WG.)	SENSIBLE (BTUH)	TOTAL (BTUH)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	OAT DB (°F)	OAT WB (°F)	MAX ROWS	MAX FPI	EWI (°F)	LWT (°F)	FLOW (GPM)	PIPE SIZE (IN)	V/PH/Hz	WEIGHT (LBS.)	REMARKS
AHU-2	WEST PATIENT ROOMS	JCI	SOLUTION XT	26,000	7,500	3.2	2	30	DIRECT DRIVE PLENUM	VFD	18,500	2.5	2	10	DIRECT	VFD	MERV 11	0.75	MERV 14	1.50	832,195	1,313,420	79.5	66.7	50	49.5	98	79	8	10	42	58	164	4	460/3/60	10,400	SEE ALL
NOTES: 1. UNIT SHALL BE MOUNTED ON 6" BASE RAIL. 2. PROVIDE WITH A SEPARATE VFD FOR EACH FAN MOTOR. MOTOR SHALL BE CONTROLLED FROM REMOTE DUCT MOUNTED PRESSURE SENSOR. 3. TOTAL STATIC PRESSURE OF UNIT SHALL INCLUDE FILTER LOSSES AS SCHEDULED. 4. PROVIDE UV LIGHTS DOWNSTREAM OF THE COOLING COIL. 5. PROVIDE MARINE LIGHTS IN EACH SECTION OF UNIT. 6. PROVIDE FILTER GAUGES ACROSS THE PRE AND FINAL FILTERS. 7. PROVIDE EACH FAN SECTION WITH MANUAL BLANK OFF PLATE TO ISOLATE FAN SECTION FROM THE REST OF THE SYSTEM. 8. ACCESS DOORS SHALL BE PROVIDED IN EACH SECTION OF UNIT AND SHALL OPEN AGAINST PRESSURE. 9. INTEGRATE ALL NEW CONTROL POINTS INTO EXISTING BUILDING AUTOMATION SYSTEM. 10. PROVIDE SEPARATE ELECTRICAL CONNECTION FOR UV LIGHTS AND MARINE LIGHTS. 11. PROVIDE SINGLE POINT CONNECTION FOR EACH FAN MOTOR. 12. PROVIDE (2) DISCONNECTS. (1) FOR THE SUPPLY FANS, AND (1) FOR THE RETURN FANS.																																					

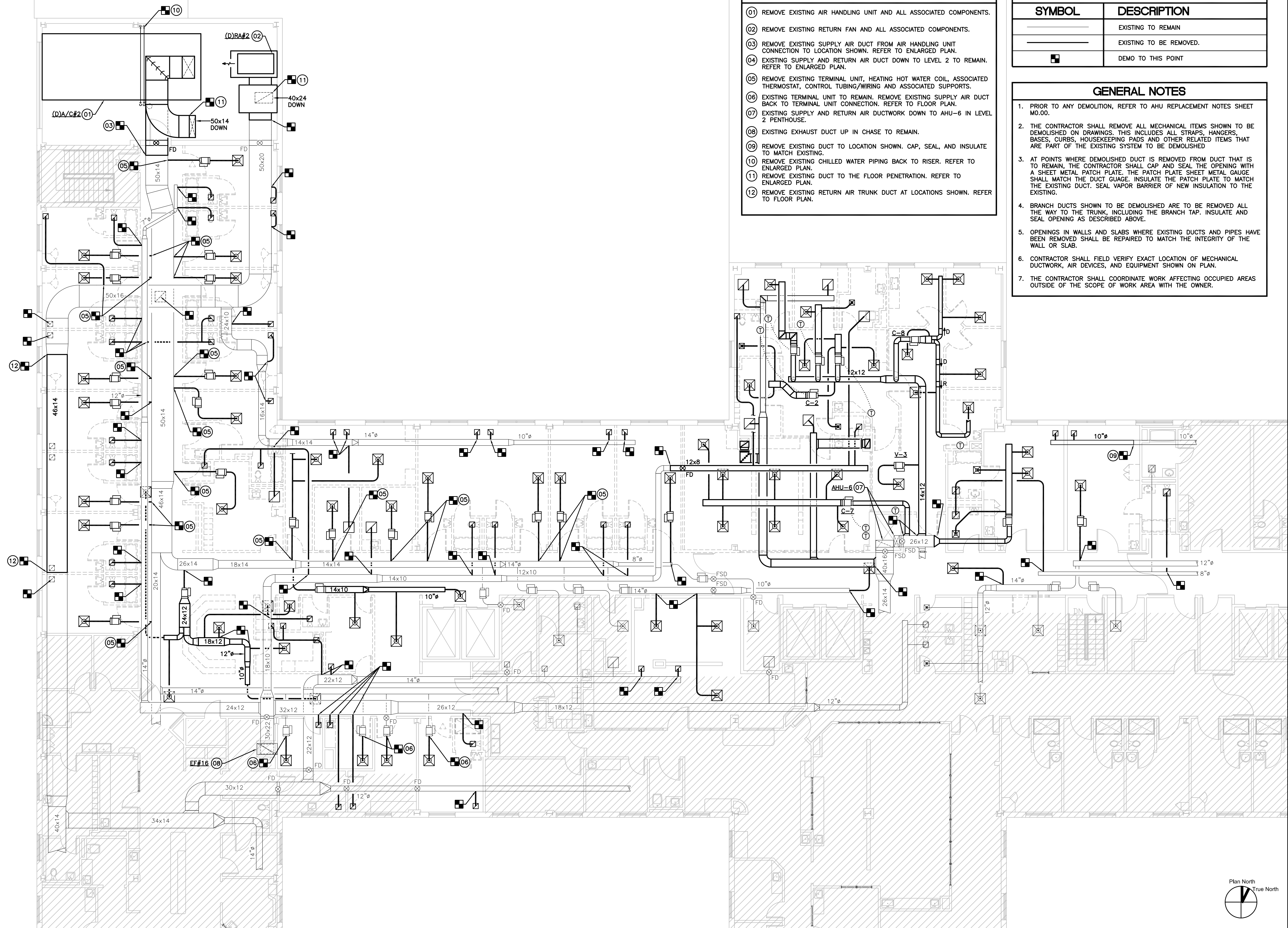
AIR DEVICE SCHEDULE				
AIR_DEVICE_TAG: [A1100] MARK			NOTES: 1. FRAME STYLE SHALL MATCH CEILING TYPE. REFER TO ARCHITECTURAL PLANS. 2. REFER TO AIR DEVICE CONNECTION SCHEDULE FOR NECK AND DUCT RUNOUT SIZE.	
CFM – SUPPLY 100R – RETURN 100E – EXHAUST				
DEVICE TAG	MANUFACTURER	MODEL	FACE SIZE	DESCRIPTION
A	TITUS	OMNI	24/24 OR 12/12	SUPPLY, HIGH PERFORMANCE PLAQUE FACE DIFFUSER, 360° PATTERN, ALUMINUM CONSTRUCTION, NECK SIZE PER SCHEDULE, WHITE FINISH.
B	TITUS	PAR	24/24 OR 12/12	RETURN OR EXHAUST, PERFORATED FACE CONSTRUCTED OF ALUMINUM, HINGED FACE FOR EASY CLEANING, STEEL CONSTRUCTION BACK PANEL AND FRAME, NECK SIZE PER SCHEDULE, WHITE FINISH.

AIR DEVICE CONNECTION SCHEDULE			
THIS SCHEDULE APPLIES TO SUPPLY, RETURN, AND EXHAUST GRILLES, REGISTERS, AND DIFFUSERS.			
AIR QUANTITY (CFM)	DEVICE NECK SIZE	BRANCH DUCT SIZE	
		ROUND DUCT	ALTERNATE RECTANGULAR DUCT
0–100	6"ø	6"ø	8X4
101–210	8"ø	8"ø	10X6
211–380	10"ø	10"ø	10X8
381–600	12"ø	12"ø	12X10
601–900	14"ø	14"ø	16X10
901–1300	16"ø	16"ø	18X12

TERMINAL UNIT SCHEDULE - HOT WATER REHEAT																						
UNIT TAG	AHU SYSTEM NUMBER	MANUFACTURER	MODEL	BOX TYPE	MAX CFM	MIN CFM	S.P. AT INLET (IN) W.G.	MAX. P.D. THRU BOX (IN) W.G.	BOX INLET SIZE (IN)	DUCT RUNOUT TO BOX		HOT WATER HEATING COIL								ELECTRICAL		REMARKS
										ROUND	ALTERNATE RECTANGLE	EAT (°F)	LAT (°F)	BTUH	EWT	LWT	GPM	BRANCH PIPE SIZE	FRICTION LOSS (FT. OF HEAD / 100 FT.)	POWER VOL/PH/HZ		
TU-2-1	AHU-2	TITUS	DESV	VAV	350	210	1.0	.2	6	8	-	55	95	9,072	130	110	0.9	1/2	0-5.0	120/1/60	1,2,3,4	
TU-2-2	AHU-2	TITUS	DESV	VAV	350	210	1.0	.2	6	8	-	55	95	9,072	130	110	0.9	1/2	0-5.0	120/1/60	1,2,3,4	
TU-2-3	AHU-2	TITUS	DESV	VAV	500	300	1.0	.2	8	10	-	55	95	12,960	130	110	1.3	3/4	1.5-5.0	120/1/60	1,2,3,4	
TU-2-4	AHU-2	TITUS	DESV	VAV	350	210	1.0	.2	6	8	-	55	95	9,072	130	110	0.9	1/2	0-5.0	120/1/60	1,2,3,4	
TU-2-5	AHU-2	TITUS	DESV	VAV	500	300	1.0	.2	8	10	-	55	95	12,960	130	110	1.3	3/4	1.5-5.0	120/1/60	1,2,3,4	
TU-2-6	AHU-2	TITUS	DESV	VAV	350	210	1.0	.2	6	8	-	55	95	9,072	130	110	0.9	1/2	0-5.0	120/1/60	1,2,3,4	
TU-2-7	AHU-2	TITUS	DESV	VAV	525	320	1.0	.2	8	10	-	55	95	13,824	130	110	1.4	3/4	1.5-5.0	120/1/60	1,2,3,4	
TU-2-8	AHU-2	TITUS	DESV	VAV	1175	710	1.0	.5	10	12	16x8	55	95	30,672	130	110	3.1	3/4	1.5-5.0	120/1/60	1,2,3,4	
TU-2-9	AHU-2	TITUS	DESV	VAV	360	220	1.0	.2	6	8	-	55	95	9,504	130	110	0.9	1/2	0-5.0	120/1/60	1,2,3,4	
TU-2-10	AHU-2	TITUS	DESV	VAV	300	180	1.0	.2	6	8	-	55	95	7,776	130	110	0.8	1/2	0-5.0	120/1/60	1,2,3,4	
TU-2-11	AHU-2	TITUS	DESV	VAV	300	180	1.0	.2	6	8	-	55	95	7,776	130	110	0.8	1/2	0-5.0	120/1/60	1,2,3,4	
TU-2-12	AHU-2	TITUS	DESV	VAV	300	180	1.0	.2	6	8	-	55	95	7,776	130	110	0.8	1/2	0-5.0	120/1/60	1,2,3,4	
TU-2-13	AHU-2	TITUS	DESV	VAV	300	180	1.0	.2	6	8	-	55	95	7,776	130	110	0.8	1/2	0-5.0	120/1/60	1,2,3,4	
TU-2-14	AHU-2	TITUS	DESV	VAV	300	180	1.0	.2	6	8	-	55	95	7,776	130	110	0.8	1/2	0-5.0	120/1/60	1,2,3,4	
TU-2-15	AHU-2	TITUS	DESV	VAV	300	180	1.0	.2	6	8	-	55	95	7,776	130	110	0.8	1/2	0-5.0	120/1/60	1,2,3,4	
TU-6-1	AHU-6	TITUS	DESV	VAV	800	480	1.0	.35	10	12	16x8	55	95	20,736	130	110	2.1	3/4	1.5-5.0	120/1/60	1,2,3,4,5	
TU-6-2	AHU-6	TITUS	DESV	VAV	1700	1020	1.0	.5	12	14	22x8	55	95	44,064	130	110	4.4	1	1.6-5.0	120/1/60	1,2,3,4,5	
TU-6-3	AHU-6	TITUS	DESV	VAV	600	360	1.0	.2	8	10	-	55	95	15,552	130	110	1.6	3/4	1.5-5.0	120/1/60	1,2,3,4,5	
TU-6-4	AHU-6	TITUS	DESV	VAV	400	240	1.0	.2	6	8	-	55	95	10,368	130	110	1.0	3/4	1.5-5.0	120/1/60	1,2,3,4,5	
NOTES: 1. CONTROLS SHALL BE MOUNTED BY MANUFACTURER. 2. PROVIDE CONTROL VOLTAGE TRANSFORMER. 3. PROVIDE HOT WATER REHEAT COIL WITH MODULATING 2-WAY CONTROL VALVE UNLESS NOTED OTHERWISE ON PLANS. 4. THE CONTRACTOR IS REQUIRED TO RENAME THE TU TAGS TO MATCH THE EXISTING FACILITY NAMING CONVENTION. THIS INCLUDES THE BAS PROGRAM AND THE PHYSICAL BOX TAGS. 5. ADD TERMINAL UNIT TO EXISTING AHU GRAPHICS ON THE BAS.																						

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KEYED NOTES

- 01 REMOVE EXISTING AIR HANDLING UNIT AND ALL ASSOCIATED COMPONENTS.
- 02 REMOVE EXISTING RETURN FAN AND ALL ASSOCIATED COMPONENTS.
- 03 REMOVE EXISTING SUPPLY AIR DUCT FROM AIR HANDLING UNIT CONNECTION TO LOCATION SHOWN. REFER TO ENLARGED PLAN.
- 04 EXISTING SUPPLY AND RETURN AIR DUCT DOWN TO LEVEL 2 TO REMAIN. REFER TO ENLARGED PLAN.
- 05 REMOVE EXISTING TERMINAL UNIT, HEATING HOT WATER COIL, ASSOCIATED THERMOSTAT, CONTROL TUBING/WIRING AND ASSOCIATED SUPPORTS.
- 06 EXISTING TERMINAL UNIT TO REMAIN. REMOVE EXISTING SUPPLY AIR DUCT BACK TO TERMINAL UNIT CONNECTION. REFER TO FLOOR PLAN.
- 07 EXISTING SUPPLY AND RETURN AIR DUCTWORK DOWN TO AHU-6 IN LEVEL 2 PENTHOUSE.
- 08 EXISTING EXHAUST DUCT UP IN CHASE TO REMAIN.
- 09 REMOVE EXISTING DUCT TO LOCATION SHOWN. CAP, SEAL, AND INSULATE TO MATCH EXISTING.
- 10 REMOVE EXISTING CHILLED WATER PIPING BACK TO RISER. REFER TO ENLARGED PLAN.
- 11 REMOVE EXISTING DUCT TO THE FLOOR PENETRATION. REFER TO ENLARGED PLAN.
- 12 REMOVE EXISTING RETURN AIR TRUNK DUCT AT LOCATIONS SHOWN. REFER TO FLOOR PLAN.

DEMOLITION LEGEND

SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED.
	DEMO TO THIS POINT

GENERAL NOTES

1. PRIOR TO ANY DEMOLITION, REFER TO AHU REPLACEMENT NOTES SHEET MO.00.
2. THE CONTRACTOR SHALL REMOVE ALL MECHANICAL ITEMS SHOWN TO BE DEMOLISHED ON DRAWINGS. THIS INCLUDES ALL STRAPS, HANGERS, BASES, CURBS, HOUSEKEEPING PADS AND OTHER RELATED ITEMS THAT ARE PART OF THE EXISTING SYSTEM TO BE DEMOLISHED
3. AT POINTS WHERE DEMOLISHED DUCT IS REMOVED FROM DUCT THAT IS TO REMAIN, THE CONTRACTOR SHALL CAP AND SEAL THE OPENING WITH A SHEET METAL PATCH PLATE. THE PATCH PLATE SHEET METAL GAUGE SHALL MATCH THE DUCT GAUGE. INSULATE THE PATCH PLATE TO MATCH THE EXISTING DUCT. SEAL VAPOR BARRIER OF NEW INSULATION TO THE EXISTING.
4. BRANCH DUCTS SHOWN TO BE DEMOLISHED ARE TO BE REMOVED ALL THE WAY TO THE TRUNK, INCLUDING THE BRANCH TAP. INSULATE AND SEAL OPENING AS DESCRIBED ABOVE.
5. OPENINGS IN WALLS AND SLABS WHERE EXISTING DUCTS AND PIPES HAVE BEEN REMOVED SHALL BE REPAIRED TO MATCH THE INTEGRITY OF THE WALL OR SLAB.
6. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF MECHANICAL DUCTWORK, AIR DEVICES, AND EQUIPMENT SHOWN ON PLAN.
7. THE CONTRACTOR SHALL COORDINATE WORK AFFECTING OCCUPIED AREAS OUTSIDE OF THE SCOPE OF WORK AREA WITH THE OWNER.

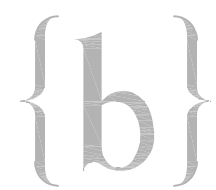
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DEMOLITION PLAN

- MECHANICAL

SHEET

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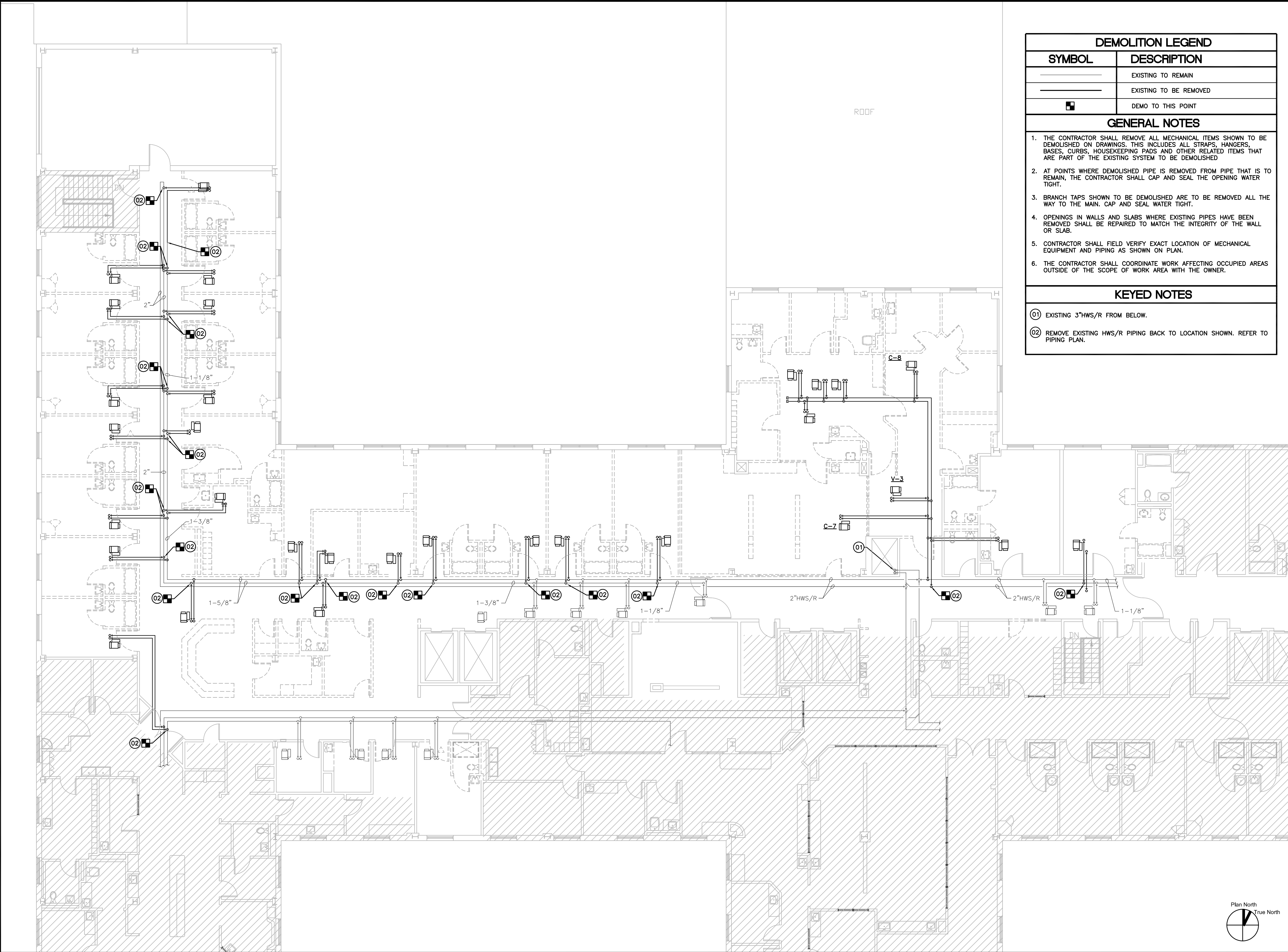
DEMOLITION PLAN - MECHANICAL

$$1/8" = 1'-0"$$

1

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DEMOLITION LEGEND	
SYMBOL	DESCRIPTION
_____	EXISTING TO REMAIN
_____	EXISTING TO BE REMOVED
■	DEMO TO THIS POINT

GENERAL NOTES
1. THE CONTRACTOR SHALL REMOVE ALL MECHANICAL ITEMS SHOWN TO BE DEMOLISHED ON DRAWINGS. THIS INCLUDES ALL STRAPS, HANGERS, BASES, CURBS, HOUSEKEEPING PADS AND OTHER RELATED ITEMS THAT ARE PART OF THE EXISTING SYSTEM TO BE DEMOLISHED.
2. AT POINTS WHERE DEMOLISHED PIPE IS REMOVED FROM PIPE THAT IS TO REMAIN, THE CONTRACTOR SHALL CAP AND SEAL THE OPENING WATER TIGHT.
3. BRANCH TAPS SHOWN TO BE DEMOLISHED ARE TO BE REMOVED ALL THE WAY TO THE MAIN. CAP AND SEAL WATER TIGHT.
4. OPENINGS IN WALLS AND SLABS WHERE EXISTING PIPES HAVE BEEN REMOVED SHALL BE REPAIRED TO MATCH THE INTEGRITY OF THE WALL OR SLAB.
5. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF MECHANICAL EQUIPMENT AND PIPING AS SHOWN ON PLAN.
6. THE CONTRACTOR SHALL COORDINATE WORK AFFECTING OCCUPIED AREAS OUTSIDE OF THE SCOPE OF WORK AREA WITH THE OWNER.

KEYED NOTES
① EXISTING 3"HWS/R FROM BELOW.
② REMOVE EXISTING HWS/R PIPING BACK TO LOCATION SHOWN. REFER TO PIPING PLAN.

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TITLE	DEMOLITION PIPING PLAN - MECHANICAL
SHEET	M1.02

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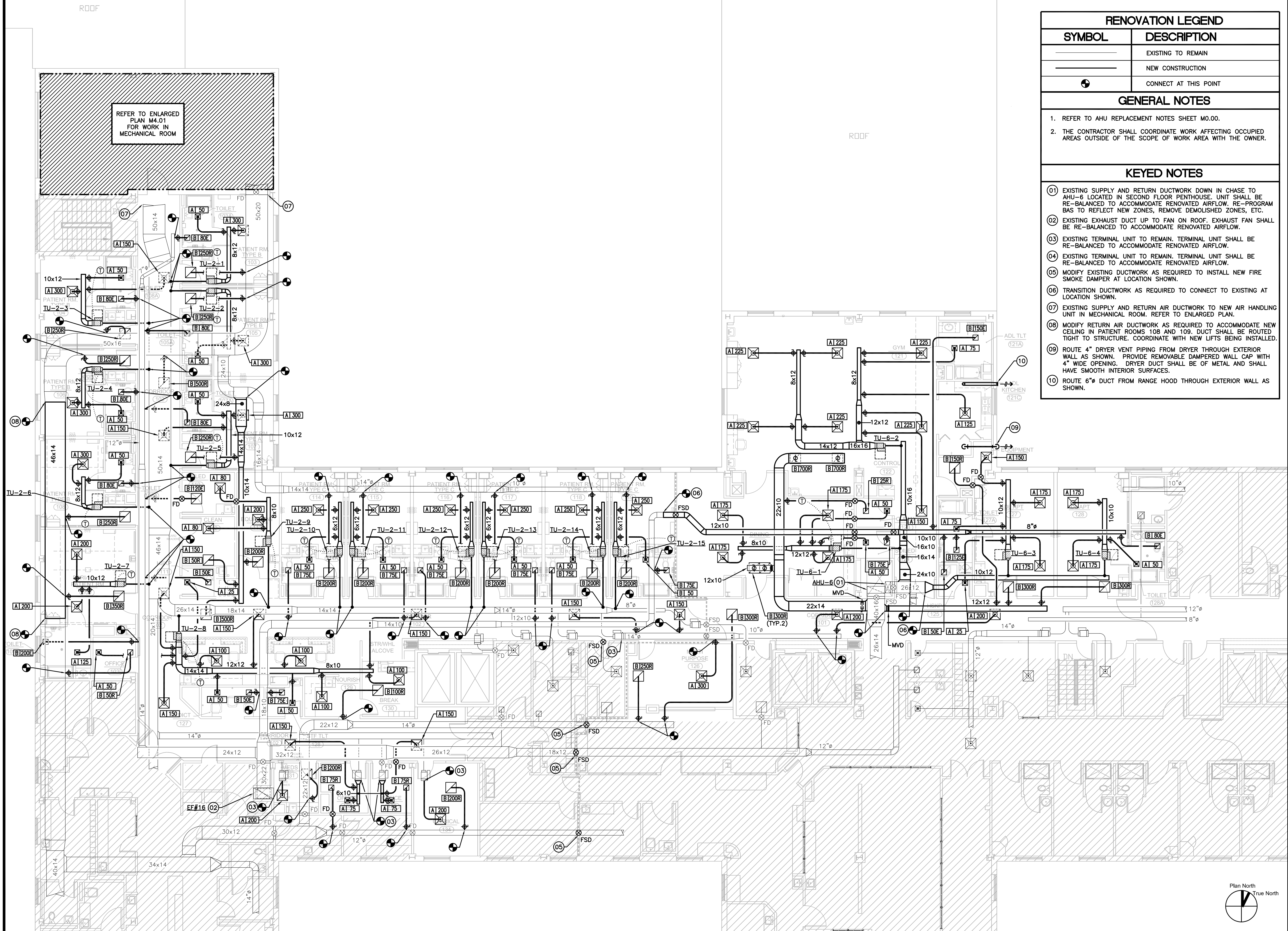
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SHEET

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- (01) EXISTING SUPPLY AND RETURN DUCTWORK DOWN IN CHASE TO AHU-6 LOCATED IN SECOND FLOOR PENTHOUSE. UNIT SHALL BE RE-BALANCED TO ACCOMMODATE RENOVATED AIRFLOW. RE-PROGRAM BAS TO REFLECT NEW ZONES, REMOVE DEMOLISHED ZONES, ETC.
- (02) EXISTING EXHAUST DUCT UP TO FAN ON ROOF. EXHAUST FAN SHALL BE RE-BALANCED TO ACCOMMODATE RENOVATED AIRFLOW.
- (03) EXISTING TERMINAL UNIT TO REMAIN. TERMINAL UNIT SHALL BE RE-BALANCED TO ACCOMMODATE RENOVATED AIRFLOW.
- (04) EXISTING TERMINAL UNIT TO REMAIN. TERMINAL UNIT SHALL BE RE-BALANCED TO ACCOMMODATE RENOVATED AIRFLOW.
- (05) MODIFY EXISTING DUCTWORK AS REQUIRED TO INSTALL NEW FIRE SMOKE DAMPER AT LOCATION SHOWN.
- (06) TRANSITION DUCTWORK AS REQUIRED TO CONNECT TO EXISTING AT LOCATION SHOWN.
- (07) EXISTING SUPPLY AND RETURN AIR DUCTWORK TO NEW AIR HANDLING UNIT IN MECHANICAL ROOM. REFER TO ENLARGED PLAN.
- (08) MODIFY RETURN AIR DUCTWORK AS REQUIRED TO ACCOMMODATE NEW CEILING IN PATIENT ROOMS 108 AND 109. DUCT SHALL BE ROUTED TIGHT TO STRUCTURE. COORDINATE WITH NEW LIFTS BEING INSTALLED.
- (09) ROUTE 4" DRYER VENT PIPING FROM DRYER THROUGH EXTERIOR WALL AS SHOWN. PROVIDE REMOVABLE DAMPERED WALL CAP WITH 4" WIDE OPENING. DRYER DUCT SHALL BE OF METAL AND SHALL HAVE SMOOTH INTERIOR SURFACES.
- (10) ROUTE 6" DUCT FROM RANGE HOOD THROUGH EXTERIOR WALL AS SHOWN.

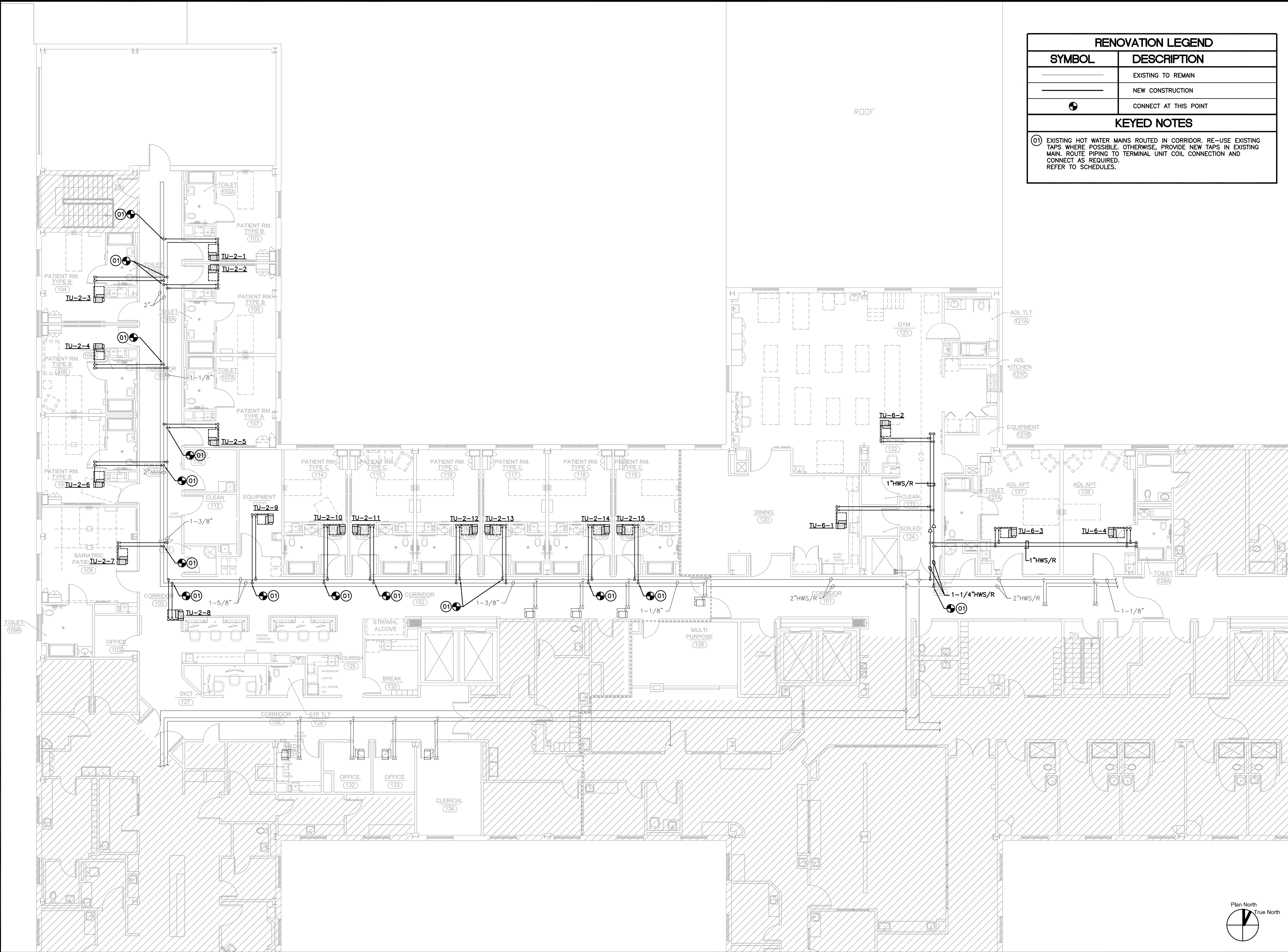


FLOOR PLAN - MECHANICAL

$$1/8'' = 1'-0''$$

1

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RENOVATION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	CONNECT AT THIS POINT

KEYED NOTES

01 EXISTING HOT WATER MAINS ROUTED IN CORRIDOR. RE-USE EXISTING TAPS WHERE POSSIBLE. OTHERWISE, PROVIDE NEW TAPS IN EXISTING MAIN. ROUTE PIPING TO TERMINAL UNIT COIL CONNECTION AND CONNECT AS REQUIRED. REFER TO SCHEDULES.

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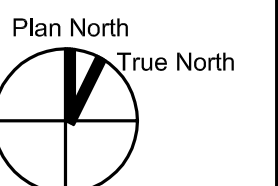
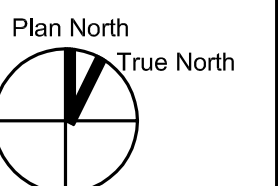
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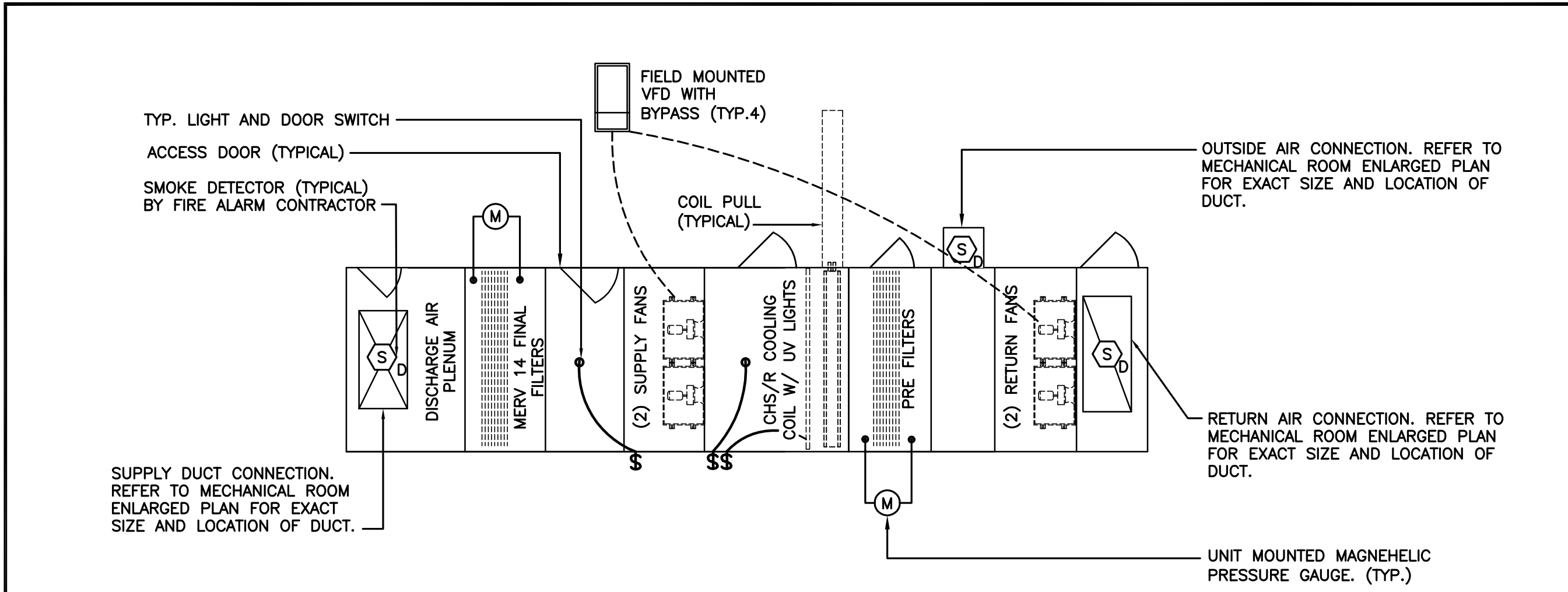
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1. REFER TO M0.00 FOR PROJECT GENERAL NOTES.

- (01) NEW CHILLED WATER AIR HANDLING UNIT MOUNTED ON NEW HOUSEKEEPING PAD. REFER TO SCHEDULE AND DETAIL.
- (02) PROVIDE NEW DDC CONTROL PANEL MOUNTED ON WALL AT LOCATION SHOWN.
- (03) PROVIDE NEW HOUSEKEEPING PAD. PAD SHALL BE 4-INCHES HIGH AND 4-INCHES LARGER THAN UNIT FOOTPRINT.
- (04) PROVIDE INSULATED SHEETMETAL BLANK-OFF PANEL, FULL SIZE OF EXISTING OUTSIDE AIR LOUVER. SEAL AIR AND WEATHER TIGHT. REFER TO SPECIFICATIONS FOR INSULATION REQUIREMENTS.
- (05) CONNECT TO OA LOUVER. SEAL AIR AND WATER TIGHT.
- (06) PROVIDE DUCT MOUNTED ACCESS DOOR FOR AFMS MAINTENANCE. PROVIDE WITH R-6 INSULATION. ACCESS DOOR SHALL BE FLEXMASTER TBSM SOG OR EQUAL. SIZE AS SHOWN ON PLANS.
- (07) CONNECT NEW 4" CHILLED WATER PIPING TO EXISTING RISER. COORDINATE ROUTING OF NEW PIPE WITH NEW RETURN AIR DUCT ROUTE TO AHU CHILLED WATER COIL CONNECTION AND CONNECT AS REQUIRED.
- (08) CONNECT TO EXISTING DUCT AT FLOOR PENETRATION. SIZE AS SHOWN.
- (09) ROUTE NEW 2" CONDENSATE DRAIN FROM AIR HANDLING UNIT CONNECTION TO EXISTING FLOOR DRAIN. TURN DOWN AND TERMINATE ABOVE FLOOR DRAIN.
- (10) TRANSITION SUPPLY AND RETURN DUCTWORK AS REQUIRED TO CONNECT TO TOP OF AIR HANDLING UNIT.
- (11) ROUTE CHILLED WATER PIPING TO COIL CONNECTION AND CONNECT AS REQUIRED. COORDINATE ROUTING OF PIPING AS TO NOT BLOCK ACCESS TO AIR HANDLING UNIT COMPONENTS ON TOP SECTION OF AIR HANDLER.
- (12) REFER TO FLOOR PLAN FOR CONTINUATION OF DUCTWORK.
- (13) PROVIDE NEW VARIABLE FREQUENCY DRIVE (VFD).


$$1/4'' = 1'-0''$$

$$1/4'' = 1'-0''$$

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PLAN VIEW

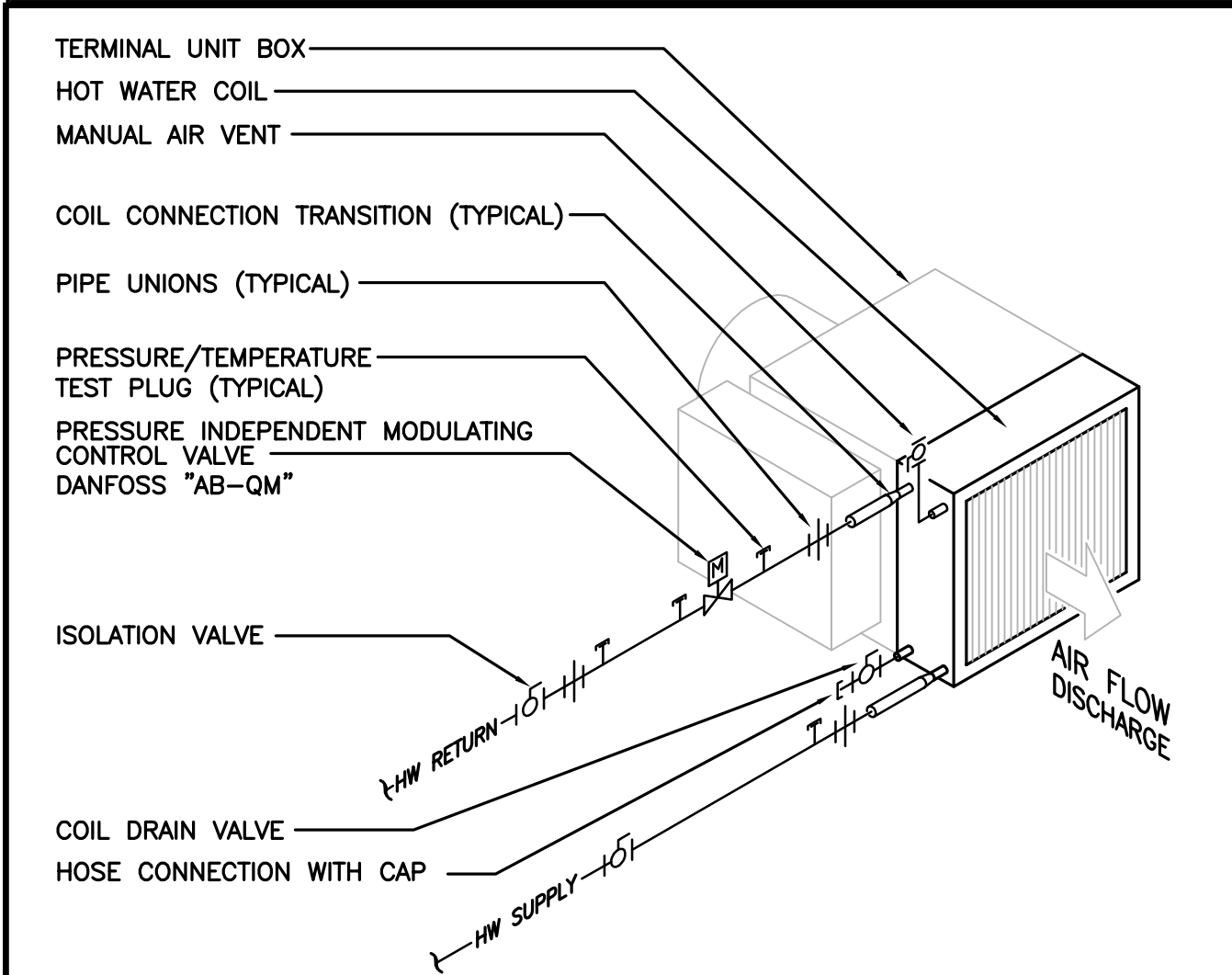
NOT TO SCALE

NOTES:

1. THIS DETAIL SHOWS GENERAL ARRANGEMENT OF AIR HANDLING UNIT COMPONENTS.
2. COIL CONNECTION SIDE LOCATIONS AND ACCESS DOOR SWING LOCATIONS SHALL BE COORDINATED WITH UNIT SPECIFIC LOCATION.
3. REFER TO SCHEDULE FOR AIR HANDLING UNIT PERFORMANCE.
4. PROVIDE AN ACCESS DOOR W/ MARINE LIGHTS IN EACH SECTION OF THE AIR HANDLING UNIT. ACCESS DOORS SHALL OPEN AGAINST PRESSURE.

06 AIR HANDLING UNIT DETAIL

NOT TO SCALE

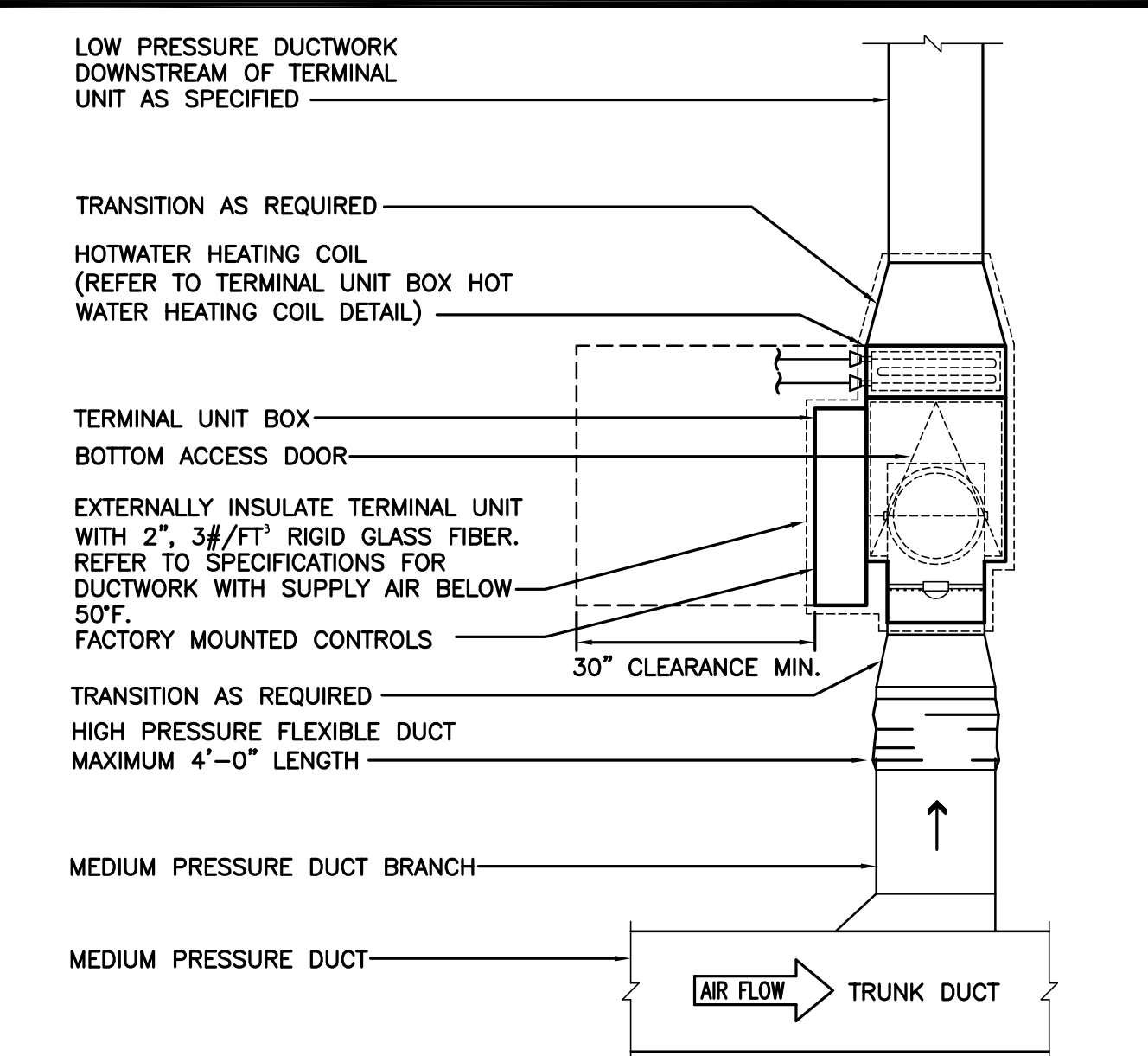


NOTES:

1. INSULATE ALL PIPING, VALVES, FITTINGS AND ACCESSORIES. RE: SPECIFICATIONS
2. INSTALL TEST PLUGS IN EASILY ACCESSIBLE LOCATIONS WITH MINIMUM OF 12" CLEARANCE IN FRONT.
3. COILS SHALL BE PROVIDED AND INSTALLED SUCH THAT THE SUPPLY HOT WATER CONNECTS AT BOTTOM CONNECTION AND AT THE LEAVING END OF THE COIL DISCHARGE. COILS SHALL NOT BE ROTATED OR FLIPPED SUCH THAT THIS ARRANGEMENT IS COMPROMISED.

07 TERMINAL UNIT HOT WATER COIL CONNECTION (2-WAY CV)

NOT TO SCALE

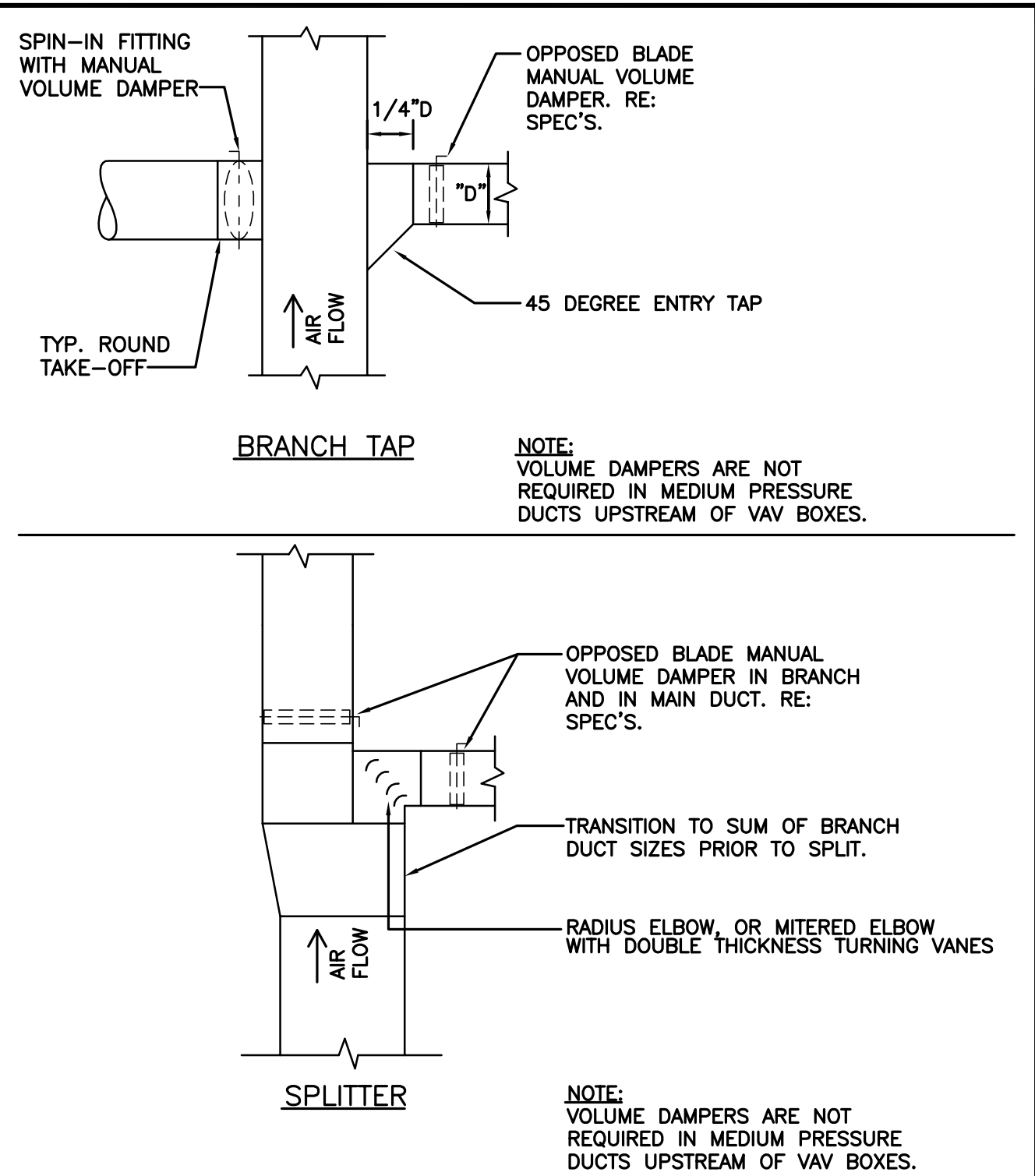


GENERAL NOTES:

1. SUPPORT FLEX DUCT FROM STRUCTURE AS SPECIFIED, DUCT SHALL NOT KINK, SAG OR REST ON LIGHT FIXTURES, CEILING SUPPORT TEES OR TILE.
2. SUPPORT BOX WITH DUCT STRAPS AT ALL FOUR CORNERS.
3. CONFIGURATION SHOWN IS A SCHEMATIC AND DOES NOT REPRESENT THE SPECIFIC UNIT.
4. PROVIDE SUFFICIENT CLEARANCE TO ACCESS CONTROL BOX.
5. PROVIDE RECOMMENDED STRAIGHT DUCT WORK BEFORE TERMINAL UNIT SENSOR INLET.

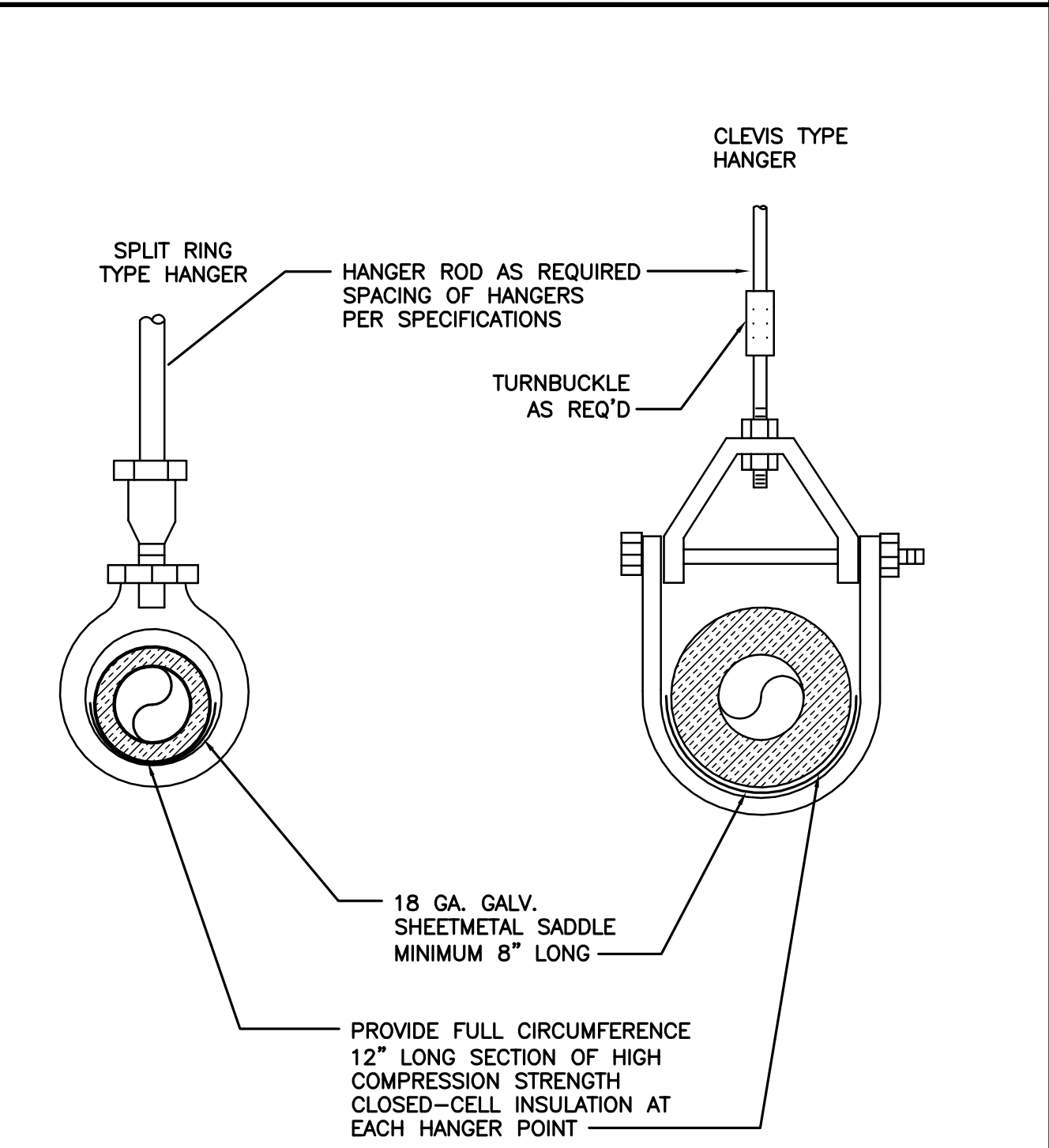
05 TERMINAL UNIT BOX (HW. COIL)

NOT TO SCALE



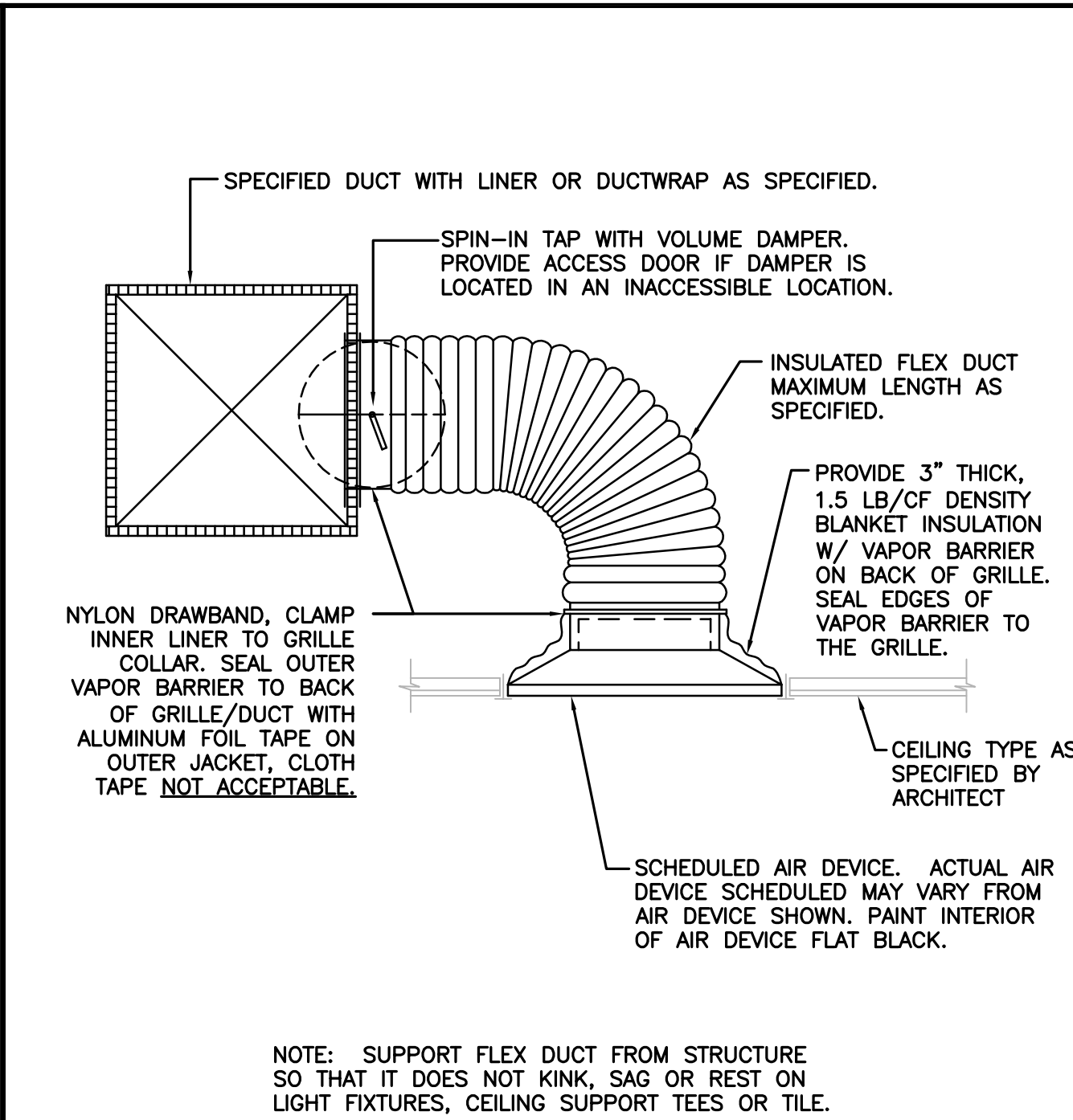
04 DUCT BRANCH TAKE OFF

NOT TO SCALE



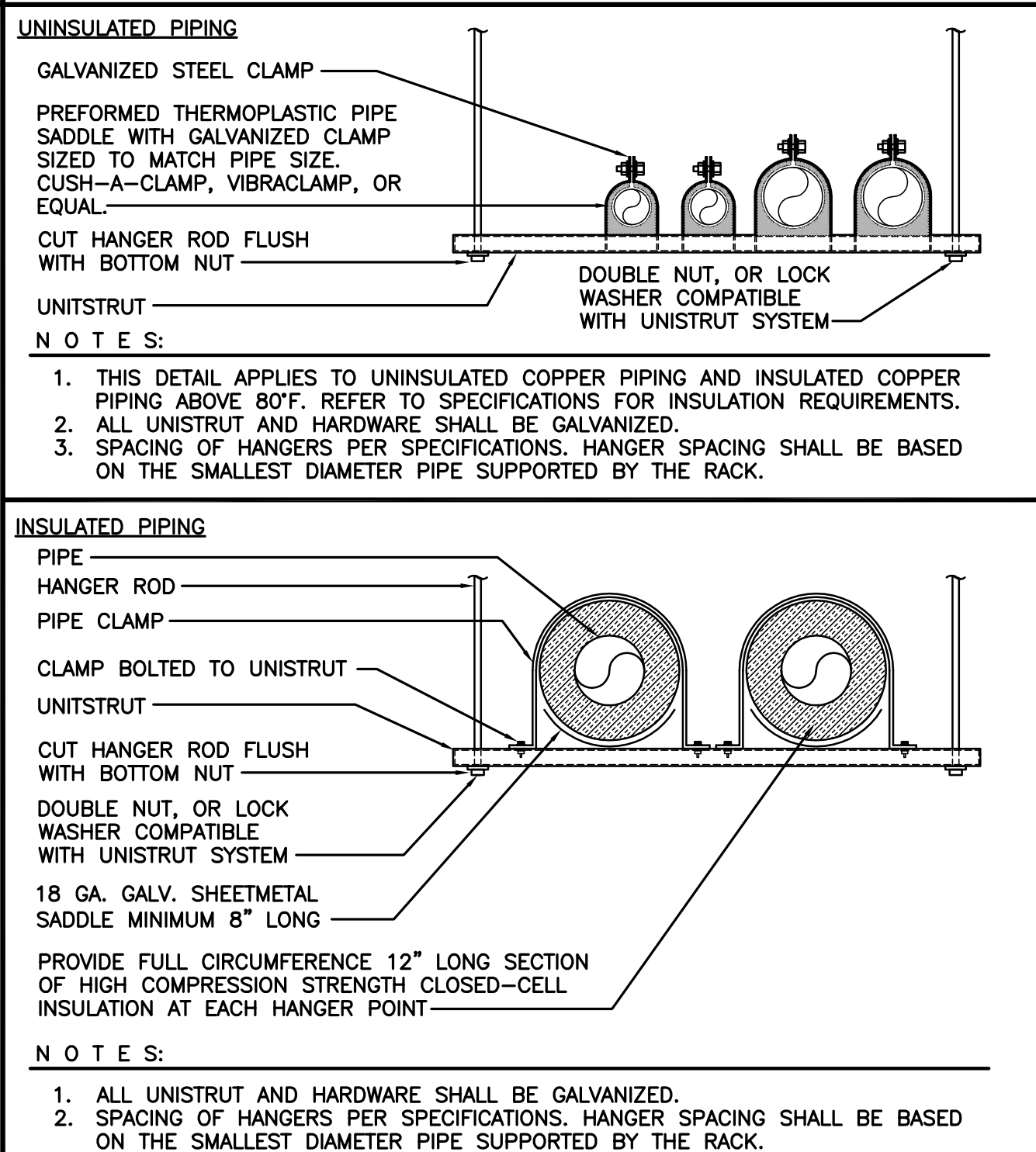
03 SINGLE PIPE HANGER

NOT TO SCALE



02 AIR OUTLET/INLET CONNECTION

NOT TO SCALE



01 SUSPENDED PIPE SUPPORT

NOT TO SCALE

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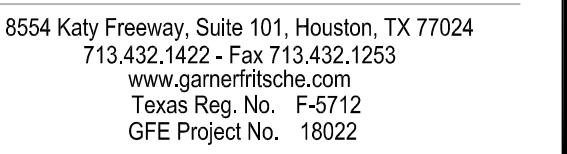
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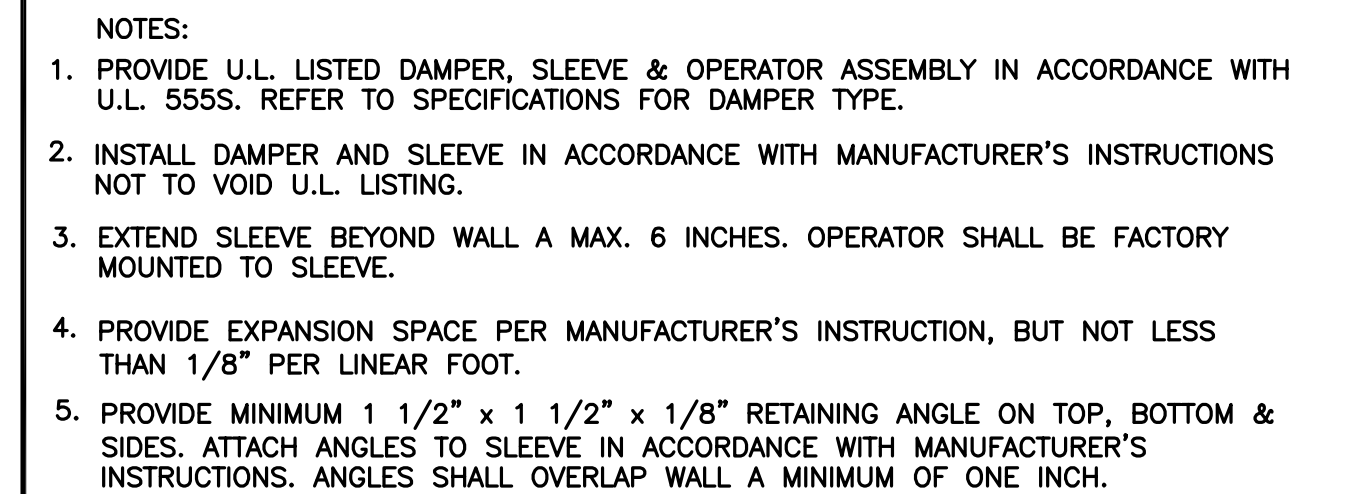
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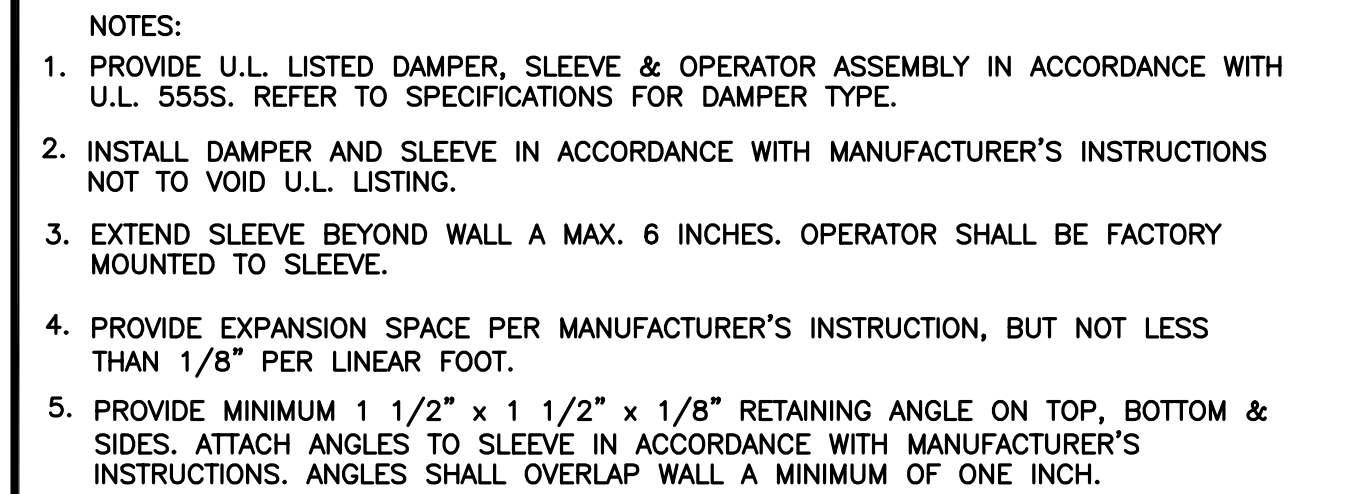


Technical drawing of a storage container with the following dimensions and labels:

- Overall height: 3'-10"
- Overall width: 6'-6" OD
- Overall length: 10'-0" OD
- Labels:
 - TARP COVER DURING SUMMER (pointing to the top)
 - 2x4 SIDES (pointing to the side structure)
 - 2x12 BASE (pointing to the base structure)

NOTES:

1. TEMPORARY DUCT SUPPORT SPACING = 4'-0" O.C.



N O T E

ELEVATE A/C UNIT SUFFICIENT DISTANCE ABOVE ROOF TO ALLOW FOR INSTALLATION OF TRAP WITH ADEQUATE DIMENSIONS TO WITHSTAND SYSTEM OPERATING PRESSURE. COORDINATE WITH DETAIL FOR A UNIT MOUNTING.

OPEN VENT

3"

CLEAN-OUT PLUG

UNION

SEE SPECIFICATIONS FOR PIPING MATERIAL.

DRAIN PAN CONNECTION

TEE

TEE

FULL CONN. SIZE PIPE MIN. 1 1/4"

ELBOW

RTU PIPING VESTIBULE FLOOR

TURN PIPE DOWN THROUGH RTU PIPING VESTIBULE FLOOR. RE: PLANS FOR ROUTING

PIPE SUPPORT

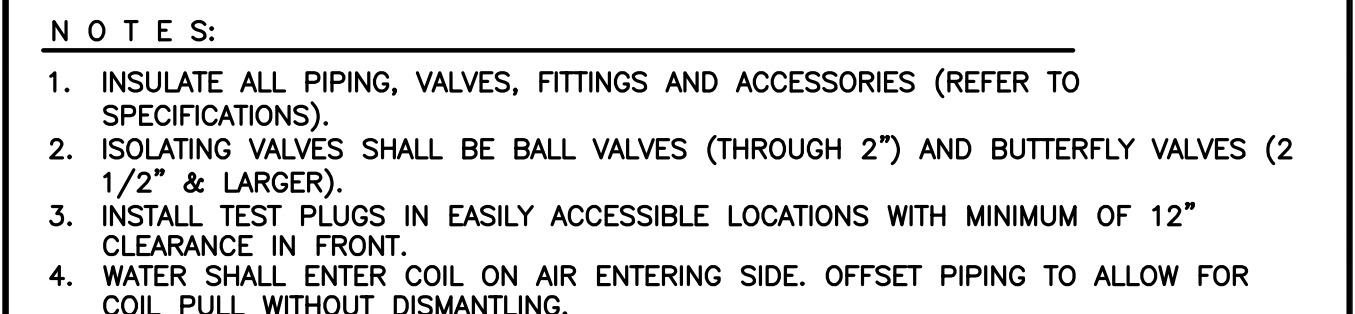
TOTAL HEIGHT

H

X

Y

BOTTOM



DEMISING WALL OR RATED PARTITION

SHEETMETAL SLEEVE

FILL VOID WITH APPROVED NON-COMBUSTIBLE MATERIAL (ROCK WOOL INSULATION). AT RATED PARTITIONS, SEAL BOTH ENDS OF OPENING WITH APPROVED FIRE-CAULK

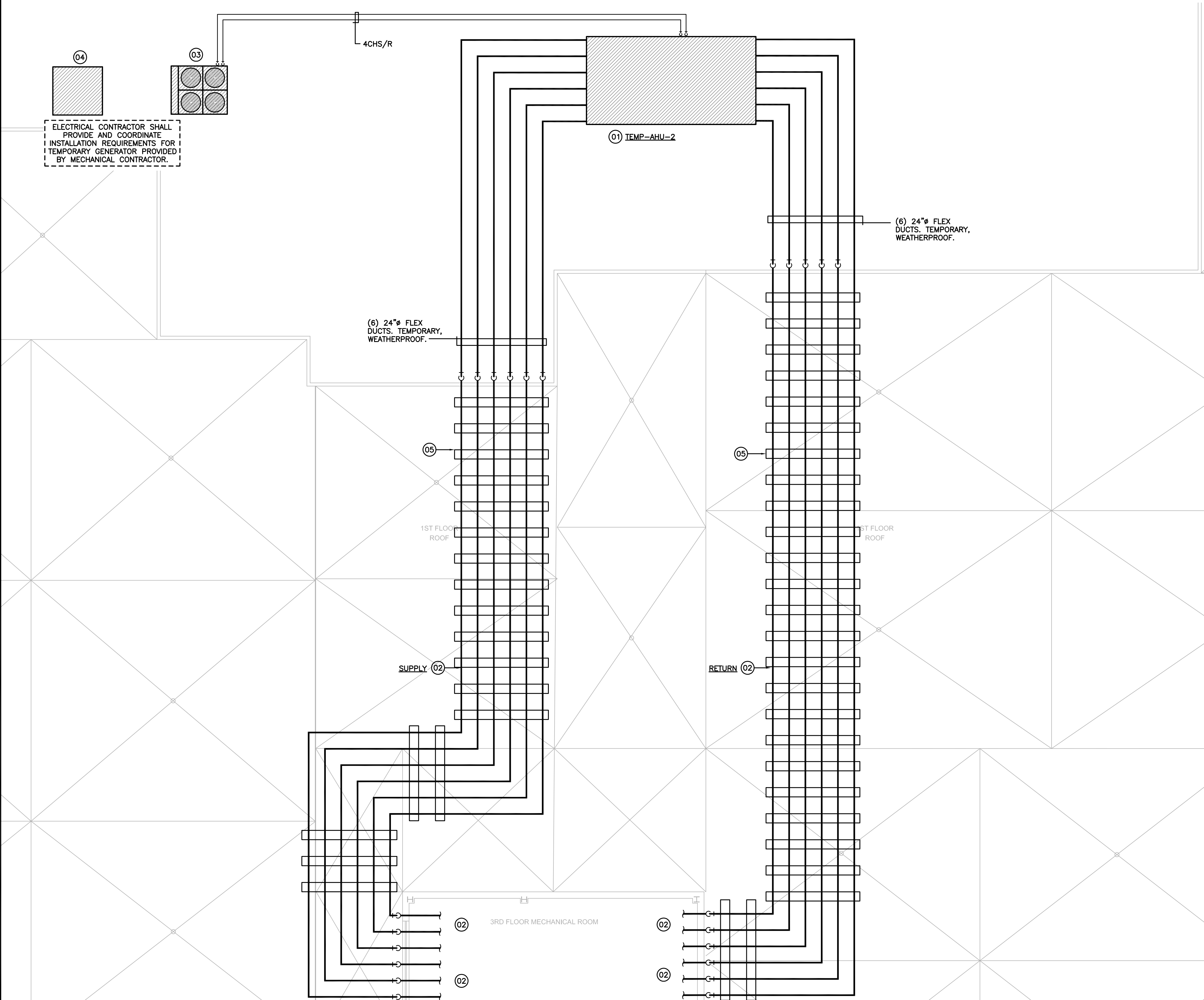
PIPE SLEEVE THRU WALL.

PIPE/OUTSIDE OF PIPING INSULATION.

PROVIDE ESCUTCHEON PLATE ON PIPES EXPOSED WITHIN ROOMS.

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TEMPORARY HANDLING UNIT SCHEDULE																														
			SUPPLY FAN							PRE FILTER		FINAL FILTER		CHILLED WATER COOLING COIL												ELECTRICAL	GENERAL			
TAG	AREA	MANUFACTURER	SA (CFM)	OA MIN (CFM)	EXTERNAL STATIC (IN.WG.)	QUANTITY	HP	TYPE	STARTER	TYPE	DIRTY FILTER LOSS (IN.WG.)	TYPE	DIRTY FILTER LOSS (IN.WG.)	SENSIBLE (BTUH)	TOTAL (BTUH)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	OAT DB (°F)	OAT WB (°F)	MAX ROWS	MAX FPI	EWT (°F)	LWT (°F)	FLOW (GPM)	PIPE SIZE (IN)	V/PH/HZ	WEIGHT (LBS.)	REMARKS
AHU-TEMP-2	LEVEL 1 & 2 WEST PATIENT WING	CUSTOM AIR PRODUCTS	22,500	5,500	6.0	1	40	DIRECT DRIVE PLENUM	VFD	MERV 11	0.75	MERV 14	1.75	758,960	1,162,360	79.1	65.6	48	47.5	101	80	8	10	42	58	145	4	460/3/60	-	SEE ALL
NOTES:																														
1. UNIT SHALL BE MOUNTED ON 6" BASE RAIL. UNIT SUPPORTS BELOW BASE RAIL SHALL BE INSTALLED TO KEEP UNIT LEVEL.														7. PROVIDE TEMPORARY, WEATHER PROOF, SUPPLY AND RETURN FLEX DUCTS AS NEEDED TO MEET PERFORMANCE SCHEDULED.												UNIT COMPONENTS SHALL BE AS FOLLOWS: 1. MERV 7 PRE-FILTER SECTION 2. CHILLED WATER COOLING COIL 3. SUPPLY FAN 4. MERV 14 FINAL FILTER SECTION				
2. PROVIDE VARIABLE FREQUENCY DRIVE (VFD) FOR SUPPLY FAN.														8. PROVIDE SUPPLY AND RETURN AIR PLENUM WITH DUCT COLLARS AS NEEDED.																
3. TOTAL STATIC PRESSURE OF UNIT SHALL INCLUDE FILTER LOSSES AS SCHEDULED.														9. RETURN AIR PLENUM SHALL HAVE OUTSIDE AIR INLET. ALL RETURN AIR DUCT COLLARS AND OUTSIDE AIR INLET SHALL HAVE MANUAL BALANCING DAMPERS.																
4. UNIT SHALL BE WEATHERPROOF FOR MOUNTING EXTERIOR OF BUILDING ON GRADE.														10. PROVIDE WEATHER PROOF OUTSIDE AIR INLET.																
5. FINAL UNIT WEIGHT SHALL BE COORDINATED WITH SUBMITTED UNIT.														11. PROVIDE WEATHER PROOF COVER AT ALL DUCT CONNECTIONS.																
6. PROVIDE WITH SMOKE DETECTORS IN SUPPLY AND RETURN AIRSTREAM.																														



RENOVATION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	CONNECT AT THIS POINT
GENERAL NOTES	
1. REFER TO M0.00 FOR PROJECT GENERAL NOTES.	
KEYED NOTES	
01 DURING RENOVATION OF AHU-2, TEMPORARY AIR SHALL BE PROVIDED FOR THE AREAS OUTSIDE OF THE SCOPE OF WORK FROM A TEMPORARY AIR HANDLING UNIT LOCATED ON GRADE AT LOCATION SHOWN. REFER TO TEMPORARY AHU SCHEDULE ON THIS SHEET.	
02 TEMPORARY FLEXIBLE DUCTWORK SHALL BE ROUTED UP THE BUILDING, ON THE ROOF, AND THROUGH THE MECHANICAL ROOM WALL AS SHOWN.	
03 PROVIDE (1) 100 TON TEMPORARY CHILLER AND (1) TEMPORARY CHILLED WATER PUMP AS REQUIRED TO SERVE TEMPORARY AHU DURING RENOVATION.	
ELECTRICAL REQUIREMENTS:	
TEMPORARY CHILLER: 480/3/60 MCA: 203.1 MOCP: 225	
TEMPORARY CHILLED WATER PUMP: 10 HP	
04 PROVIDE A TEMPORARY GENERATOR AS REQUIRED TO SERVE TEMPORARY AHU AND TEMPORARY CHILLER DURING RENOVATION.	
05 TEMPORARY ROOF DUCT SUPPORT. REFER TO DETAILS (TYP).	

REVISIONS		
NO.	ISSUE	DATE
Sheet Information		
DATE	09/06/2018	
JOB NUMBER	18302	
TITLE		
TEMPORARY AHU		
PLAN -		
MECHANICAL		
SHEET		
MEP6.01		
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LIGHT FIXTURE SCHEDULE						
MARK	MANUFACTURER SERIES NUMBER	MOUNTING	LAMPS		VOLTS	WATTS
			NO.	TYPE		
A	LITHONIA LIGHTING SERIES # 2ALL	RECESSED	–	6000 LUMEN 3500°K LED	120V/ 277V	47W
B	LITHONIA LIGHTING SERIES # 2ALL	RECESSED	–	7200 LUMEN 3500°K LED	120V/ 277V	68W
C	LITHONIA LIGHTING SERIES # 2ALL	RECESSED	–	4000 LUMEN 3500°K LED	120V/ 277V	35W
D	GOTHAM LIGHTING SERIES # EVO	RECESSED	–	2500 LUMEN 3500°K LED	120V/ 277V	30W
E	HEALTHCARE LTG SERIES # HNL610	WALL MOUNTED	–	3000°K LED	120V/ 277V	2W
F	GOTHAM LIGHTING SERIES # EVO–DFRAMF	RECESSED	–	2000 LUMEN 3500°K LED	120V/ 277V	24W
G	LUMIDESIGN, AMBER	WALL MOUNTED	–	3000°K LED 90 CRI	120V	24W
H	Y LIGHTING SERIES #LINK TALL	WALL MOUNTED	–	3000°K LED	120V	9W
I	NOT USED					
J	Y LIGHTING SERIES #CORONA	PENDANT	–	3000°K LED	120V	8W
K	HEALTHCARE LIGHTING SERIES # HPT624	RECESSED	–	7100 LUMEN 3500°K LED	120V/ 277V	105W
UC	JUNO LIGHTING SERIES # UPS	UNDER CABINET	–	3000°K LED	120V	12.5W
X	LITHONIA LIGHTING SERIES # LRP	CEILING, BACK OR END MOUNT	–	LED	120V/ 277V	3W
LIGHT FIXTURE SCHEDULE GENERAL NOTES						
REFER TO PLANS						
1. REFER TO THE GENERAL NOTES ON THE INFORMATION SHEET AND LIGHTING PLAN FOR ADDITIONAL INFORMATION.						
COMPLETE PART NUMBER						
2. COMPLETE LIGHTING FIXTURE MANUFACTURER PART NUMBERS ARE NOT SHOWN BUT SHALL BE OBTAINED FROM THE COMBINATION OF THE SERIES NUMBER, NUMBER OF LAMPS, TYPE OF LAMPS, VOLTAGE, AND DESCRIPTION. THE COMPLETE PART NUMBER FOR EACH LIGHT FIXTURE SHALL INCORPORATE THE REQUIREMENTS SHOWN ON THE LIGHT FIXTURE SCHEDULE, DRAWINGS, AND CONTRACT DOCUMENTS.						
BALLAST/DRIVER						
3. REFER TO SPECIFICATIONS FOR BALLAST/DRIVER REQUIREMENTS.						
LAMPS						
4. LAMP COLOR TEMPERATURE SHALL BE 3500K UNLESS INDICATED OTHERWISE IN OWNER GUIDELINES; CONFIRM EXACT COLOR TEMPERATURE OF LAMPS WITH OWNER PRIOR TO PURCHASING. MINIMUM CRI SHALL BE 85.						
FIXTURE MOUNTING HARDWARE & FINISH						
5. CONFIRM ALL CEILING TYPES, FINISHES, MOUNTING HARDWARE REQUIRED, AND PROJECT CONDITIONS PRIOR TO ORDERING NEW LIGHTING FIXTURES, LAMPS, AND BALLAST. PROVIDE FIXTURES WITH FLANGED MOUNTING KITS WHERE REQUIRED.						
ACCEPTABLE MANUFACTURERS						
6. MANUFACTURERS OTHER THAN THOSE LISTED IN THE DRAWINGS ARE ACCEPTABLE; REFER TO THE SPECIFICATIONS IF APPLICABLE. SHOULD THE CONTRACTOR SELECT A DIFFERENT MANUFACTURER THAN THOSE LISTED OR SPECIFIED, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM THAT ALL FIXTURES AND REQUIRED ACCESSORIES ARE EQUIVALENT AND SUITABLE FOR PROJECT CONDITIONS (CEILING TYPES, ENVIRONMENT, SPACE LIMITATIONS, LIGHT DISTRIBUTION, ETC.) THE OWNER MUST ALSO GIVE APPROVAL OF PROPOSED MANUFACTURER(S).						
SUBMITTALS						
7. SUBMISSION OF VENDOR/SHOP DRAWINGS FOR APPROVAL SHALL BE CONSTRUED THAT ALL CONTRACT DOCUMENT LIGHTING REQUIREMENTS HAVE BEEN INCLUDED AND THAT THE CONTRACTOR HAS VERIFIED EVERY LIGHTING FIXTURE VOLTAGE, QUANTITY OF BALLASTS, QUANTITY OF LAMPS, LAMP COLOR TEMPERATURE, AND MOUNTING WITH THE BUILDING CONDITIONS.						
NOTICE TO CONTRACTORS:						
HCA MAINTAINS PURCHASING AGREEMENTS FOR ACUTY BRANDS LIGHTING PRODUCTS. CONTRACTORS SHALL CONTACT HCA'S PREFERRED DISTRIBUTOR TO OBTAIN ALTERNATIVE COMPETITIVE PRICING. GRAYBAR ELECTRIC CO., INC. ATTN: JESS HOOVER PHONE: 239-494-2088 EMAIL: HCA@GRAYBAR.COM VENDOR REFERENCE: #947581						

ABBREVIATIONS	
A	AMPERES
AC	ABOVE COUNTER
ACCH	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
ASC	ABOVE SUSPENDED CEILING
ATS	AUTOMATIC TRANSFER SWITCH
B	BOILER
BC	BELOW COUNTER
BSB	BUILDING SWITCHBOARD
C	CONDUIT
CB	CIRCUIT BREAKER
CEB	CONCRETE EQUIPMENT BASE
CLG	CEILING
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
(D)	EXISTING TO BE REMOVED
(E)	EXISTING TO REMAIN
E.C.	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
EM	EMERGENCY
EWC	ELECTRIC WATER COOLER
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FLA	FULL LOAD AMPERES
FUR	FURNACE
G	ISOLATED GROUND
G.C.	GENERAL CONTRACTOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
G	GROUND
GUH	GAS UNIT HEATER
HP	HORSEPOWER
HPU	HEAT PUMP UNIT
JB	JUNCTION BOX
KVA	KILO–VOLT AMPERES
KW	KILOWATT
LTS	LIGHTS
M.C.	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MOD	MOTOR OPERATED DAMPER
MTC	EMPTY CONDUIT
(N)	NEW
NF	NON–FUSED
NL	NIGHT LIGHT
OH	OVERHEAD
P	PUMP
PC	PHOTO CELL
PH,Ø	PHASE
PNL	PANEL
PP	POWER POLE
PRI	PRIMARY
(R)	EXISTING TO BE RELOCATED
RECEP	RECEPTACLE(S)
REFR	REFRIGERATOR
RTU	ROOFTOP UNIT
S/N	SOLID NEUTRAL
SEC	SECONDARY
TC	TIME CLOCK
TR	TAMPER–RESISTANT
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
USB	RECEPTACLE WITH USB (RE: SPECIFICATIONS)
V	VOLTS
VAV	VAV AIR TERMINAL
W	WIRE
WH	WATER HEATER
WM	WIRE MOLD
WR	WEATHER–RESISTANT
XFMR	TRANSFORMER
NOTE: NOT ALL ABBREVIATIONS MAY BE USED.	

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	HOMERUN. 2#12, 1#12G, 1/2°C UNLESS OTHERWISE NOTED.
	EXISTING PANELBOARD.
	NEW PANELBOARD.
	ISOLATION PANEL. REFER TO PLANS AND SPECIFICATIONS.
	RECESSED RECTILINEAR LIGHT FIXTURE. UPPER CASE LETTER INDICATES TYPE, REFER TO LIGHT FIXTURE SCHEDULE. LOWER CASE LETTER(S) INDICATES SWITCH LEG(S).
	SUSPENDED/SURFACE MOUNTED RECTILINEAR LIGHT FIXTURE. UPPER CASE LETTER INDICATES TYPE, REFER TO LIGHT FIXTURE SCHEDULE. LOWER CASE LETTER(S) INDICATES SWITCH LEG(S).
	RECESSED ROUND LIGHT FIXTURE. UPPER CASE LETTER INDICATES TYPE, REFER TO LIGHT FIXTURE SCHEDULE. LOWER CASE LETTER(S) INDICATES SWITCH LEG(S).
	SUSPENDED/SURFACE MOUNTED ROUND LIGHT FIXTURE. UPPER CASE LETTER INDICATES TYPE, REFER TO LIGHT FIXTURE SCHEDULE. LOWER CASE LETTER(S) INDICATES SWITCH LEG(S).
	WALL MOUNTED LIGHT FIXTURE. UPPER CASE LETTER INDICATES TYPE, REFER TO LIGHT FIXTURE SCHEDULE. LOWER CASE LETTER(S) INDICATES SWITCH LEG(S).
	SINGLE CROSS HATCHING ON ANY LIGHT FIXTURE INDICATES LIGHT FIXTURE IS ON A CRITICAL POWER CIRCUIT.
	CRISS–CROSS HATCHING ON ANY LIGHT FIXTURE INDICATES LIGHT FIXTURE IS ON A LIFE SAFETY POWER CIRCUIT.
	ANY LIGHT FIXTURE WITH A DOT INDICATES LIGHT FIXTURE HAS AN INTERNAL BATTERY BACKUP SYSTEM.
	CEILING MOUNTED EXIT LIGHT. FIXTURE TYPE X, REFER TO LIGHT FIXTURE SCHEDULE.
	WALL MOUNTED EXIT LIGHT. FIXTURE TYPE X, REFER TO LIGHT FIXTURE SCHEDULE.
	SINGLE POLE SWITCH, 20A–120/277V. 48°AFF TO CENTERLINE. LOWER CASE LETTER INDICATES SWITCH LEG.
	3–WAY SWITCH, 20A–120/277V. 48°AFF TO CENTERLINE. LOWER CASE LETTER INDICATES SWITCH LEG.
	4–WAY SWITCH, 20A–120/277V. 48°AFF TO CENTERLINE. LOWER CASE LETTER INDICATES SWITCH LEG.
	0–10V DIMMER. LUTRON NOVA OR EQUIVALENT. PROVIDE WITH POWER PACK FOR ON/OFF CAPABILITY IF DIMMING LED LOADS.
	SINGLE BUTTON DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR, 120/277V. 48°AFF TO CENTERLINE. LOWER CASE LETTER INDICATES SWITCH LEG. WATTSTOPPER #DW–100.
	TWO BUTTON DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR, 120/277V. 48°AFF TO CENTERLINE. LOWER CASE LETTERS INDICATE SWITCH LEGS. WATTSTOPPER #DW–200.
	MULTI–WAY SINGLE BUTTON DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR, 120/277V. 48°AFF TO CENTERLINE. LOWER CASE LETTER INDICATES SWITCH LEG. WATTSTOPPER #DW–103.
	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, 120/277V. LOWER CASE LETTER INDICATES SWITCH LEG. WATTSTOPPER #DT–355.
	PHOTOCELL FOR DUSK TO DAWN CONTROL. INTERMATIC #K4321C(120V) OR #K4023C(277V). FAILSAFE "ON".
	ON/OFF/0–10V DIMMING PIR WALL SWITCH OCCUPANCY SENSOR, MULTI–LOCATION CAPABLE. 48°AFF TO CENTERLINE. LOWER CASE LETTER INDICATES SWITCH LEG. LUTRON MAESTRO #MS–Z101.
	DUPLEX RECEPTACLE, 20A–125V, NEMA 5–20R. 18°AFF TO CENTERLINE, UNLESS OTHERWISE NOTED.
	TWO DUPLEX RECEPTACLES IN 2–GANG BOX WITH SINGLE COVER PLATE, 20A–125V, NEMA 5–20R. 18°AFF TO CENTERLINE, UNLESS OTHERWISE NOTED.
	SPECIAL PURPOSE RECEPTACLE, AS NOTED. 18°AFF TO CENTERLINE, UNLESS OTHERWISE NOTED.
	FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE.
	DUPLEX RECEPTACLE, 20A–125V, NEMA 5–20R, WITH "IN–USE" WEATHER–RESISTANT COVER. 24°AFG TO CENTERLINE, UNLESS OTHERWISE NOTED.
	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE, 20A–125V, NEMA 5–20R. 18°AFF TO CENTERLINE, UNLESS OTHERWISE NOTED.
	EMERGENCY POWERED RED DUPLEX RECEPTACLE, 20A–125V, NEMA 5–20R. 18°AFF TO CENTERLINE, UNLESS OTHERWISE NOTED.
	TWO EMERGENCY POWERED RED DUPLEX RECEPTACLES IN 2–GANG BOX WITH SINGLE COVER PLATE, 20A–125V, NEMA 5–20R. 18°AFF TO CENTERLINE, UNLESS OTHERWISE NOTED.
	FOUR EMERGENCY POWERED RED DUPLEX RECEPTACLES IN 4–GANG POWER GROUND MODULE BOX, 20A–125V, NEMA 5–20R. 42°AFF TO CENTERLINE, UNLESS OTHERWISE NOTED. SEE SPECIFICATIONS.
	MOTOR CONNECTION. MAKE FINAL MOTOR CONNECTION.
	ELECTRICAL CONNECTION. MAKE FINAL CONNECTION.
	MANUAL MOTOR SWITCH, FRANKLIN CONTROLS SYSTEMS #BAS–1P. PROVIDE NEMA 3R ENCLOSURE WHERE INSTALLED OUTDOORS.
	DISCONNECT SWITCH, SIZE AND FUSING AS NOTED. "NF" INDICATES NON–FUSED. "WR" INDICATES WEATHER–RESISTANT.
	COMBINATION MOTOR STARTER AND DISCONNECT SWITCH, SIZE, TYPE AND FUSING AS NOTED. "NF" INDICATES NON–FUSED. "WR" INDICATES WEATHER–RESISTANT.
	MOTOR STARTER, SIZE AND TYPE AS NOTED.
	VARIABLE FREQUENCY DRIVE, AS NOTED.
	JUNCTION BOX. SIZE AS REQUIRED.
	PULL BOX. SIZE AS REQUIRED.
NOTE: NOT ALL SYMBOLS MAY BE USED.	

GENERAL PROJECT NOTES	
1.	ALL ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND START OF CONSTRUCTION TO DETERMINE THE EXISTING CONDITION OF THE ELECTRICAL SYSTEMS AND DEVICES. CONTRACTOR WILL BE RESPONSIBLE FOR REVIEWING ANY DOCUMENTATION WHICH REFLECT THE EXISTING CONDITIONS. COORDINATE ALL OUTLET/DEVICE LOCATION, CONNECTION TYPE, AND TERMINATION REQUIREMENTS WITH OTHER DISCIPLINES, ARCHITECTURAL PLANS AND EQUIPMENT INSTALLERS/MANUFACTURERS PRIOR TO ROUGH–IN.
2.	ALL WORK SHALL COMPLY WITH ALL PERTINENT NATIONAL, AMERICAN DISABILITIES ACT (ADA), TEXAS ACCESSIBILITY STANDARDS (TAS), STATE, LOCAL ORDINANCE CODES AND REQUIREMENTS.
3.	ALL EQUIPMENT, MATERIALS, AND INSTALLATION METHODS AS OUTLINED IN THE SPECIFICATIONS SHALL APPLY TO THIS PROJECT.
4.	ELECTRICAL GENERAL NOTES ON ANY SHEET SHALL APPLY TO ALL OTHER ELECTRICAL SHEETS UNLESS INDICATED OTHERWISE.
5.	STANDARD DETAILS ILLUSTRATED ON THE DRAWINGS SHALL BE APPLIED IN ALL CASES WHERE THE FEATURE OCCURS IN THE SYSTEM DESIGN.
6.	PROVIDE ALL NEW CONDUIT UNLESS NOTED OTHERWISE. MINIMUM CONDUIT SIZE SHALL BE 1/2" UNLESS INDICATED OTHERWISE.
7.	ALL OUTDOOR CONDUIT SHALL BE LISTED AND SUITABLE FOR THE ENVIRONMENT WHICH IT'S TO BE INSTALLED IN (NEC 300.6). IN ADDITION, NEW CONDUIT EXPOSED TO THE WEATHER SHALL BE LISTED AS SUNLIGHT RESISTANT. ALL CONDUIT COUPLING AND CONNECTORS EXPOSED TO THE OUTSIDE SHALL BE WEATHERPROOF, RAINPROOF, AND RAIN/TIGHT/WATERTIGHT.
8.	PROVIDE ALL NEW CONDUCTORS UNLESS NOTED OTHERWISE. CONDUCTORS SHALL BE COPPER WITH INSULATION RATED NO LESS THAN 75 DEGREES CELSIUS. THHN/THWN UNLESS NOTED OTHERWISE. CONDUCTOR TERMINATIONS SHALL MATCH OR EXCEED THE RATING OF THE CONDUCTORS.
9.	ALL WIRING AND CABLING SHALL BE INSTALLED IN CONDUIT UNLESS NOTED OTHERWISE.
10.	THE MINIMUM WIRE SIZE FOR ALL NEW CONDUCTORS SHALL BE #12 AWG COPPER FOR ALL SHORT DISTANCE RUNS. ALL 120V AND 277 CIRCUIT CONDUCTORS EXCEEDING 50 FEET (100 FEET FOR 277V) IN LENGTH SHALL BE A MINIMUM OF #10 WIRE. THE LARGEST CONDUCTOR SIZE SHALL BE USED IF ANY DISCREPANCY BETWEEN THE CONSTRUCTION DOCUMENTS AND/OR BUILDING STANDARDS OCCUR.
11.	RAISE, OFFSET, LOWER, AND EXTEND EXISTING BRANCH CIRCUITS AS NEEDED.
12.	JUNCTION BOXES MUST BE INDEPENDENTLY MOUNTED ON GALVANIZED STEEL CHANNELS AND PER NEC. FOR ALL JUNCTION BOXES THAT ARE PART OF THE SCOPE, PERMANENTLY MARK ON THE COVER PLATE THE ASSOCIATED CIRCUIT NUMBER AND VOLTAGE.
13.	PROVIDE NEW THERMAL MAGNETIC CIRCUIT BREAKERS FOR ALL EQUIPMENT AND DEVICES UNLESS INDICATED OTHERWISE. THE NEW CIRCUIT BREAKER SHALL MATCH THE PANELBOARD'S MANUFACTURER, BREAKER TYPE (THERMAL MAGNETIC OR GREATER), A.I.C. RATING, AND SHALL BE FULLY RATED (NO SERIES RATING ALLOWED). PROVIDE HACR TYPE CIRCUIT BREAKERS FOR ALL HEATING, AIR CONDITIONING, AND REFRIGERATION EQUIPMENT. UPDATE THE PANELBOARD DIRECTORY AS REQUIRED.
14.	IN THE EVENT ANY DISCREPANCIES OCCUR BETWEEN ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DRAWINGS OR SPECIFICATIONS; CONTRACTOR IS TO INCORPORATE IN THE BID PRICE THE MOST STRINGENT OPTION. CONTRACTOR SHALL PROVIDE ALL NECESSARY ADDITIONAL ELECTRICAL COMPONENTS IF EQUIPMENT PURCHASED DIFFERS FROM WHAT IS SPECIFIED IN THE CONTRACT DOCUMENTS.

DRAWING INDEX	
NUMBER	DRAWING TITLE
E0.00	INFORMATION SHEET – ELECTRICAL
E0.01	PANEL SCHEDULES – ELECTRICAL
E1.01	PARTIAL DEMOLITION PLAN – ELECTRICAL – AREA 1
E1.02	PARTIAL DEMOLITION PLAN – ELECTRICAL – AREA 2
E2.01	PARTIAL FLOOR PLAN – LIGHTING – AREA 1
E2.02	PARTIAL FLOOR PLAN – LIGHTING – AREA 2
E3.01	PARTIAL FLOOR PLAN – POWER – AREA 1
E3.02	PARTIAL FLOOR PLAN – POWER – AREA 2
E4.00	PARTIAL OVERALL 1ST FLOOR PLAN – EQUIPMENT POWER
E4.01	PARTIAL FLOOR PLAN – EQUIPMENT POWER – AREA 1
E4.02	PARTIAL FLOOR PLAN – EQUIPMENT POWER – AREA 2
E5.01	PARTIAL FLOOR PLAN – SPECIAL SYSTEMS – AREA 1
E5.02	PARTIAL FLOOR PLAN – SPECIAL SYSTEMS – AREA 2
E6.01	DETAILS – ELECTRICAL
MEP6.01	TEMPORARY AHU PLAN – MECHANICAL, ELECTRICAL & PLUMBING

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Rio Grande
REGIONAL HOSPITAL
An HCA Affiliated Hospital

3rd Floor INPATIENT REHAB UNIT

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THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW ONLY. UNDER THE AUTHORITY OF:
Name: GREG W. MERCER
P.E. No. 114431
DATE: 09/06/2018
AND IS NOT INTENDED TO BE USED FOR BIDDING OR CONSTRUCTION PURPOSES.

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NO.	ISSUE	DATE
Sheet Information		
DATE	09/06/2018	
JOB NUMBER	18302	

INFORMATION SHEET - ELECTRICAL

SHEET

E0.00

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INFORMATION SHEET - ELECTRICAL

NO SCALE

1

PANEL SCHEDULE: 3EQ (EQUIPMENT BRANCH) (EXISTING)									
VOLTS/PHASE: 208Y/120V, 3PH, 4W BUS AMPS: 50A MAIN SIZE/TYPE: 50A/MCB MOUNTING: SURFACE									
SECTION 1									
NO.	DESCRIPTION	LOAD/VA	WIRE	BKR	PHASE	BKR	WIRE	LOAD/VA	DESCRIPTION
1	TERMINAL UNIT CONTROLS	400	#12	201	A	201	EXST	540	EXISTING LOAD
3	EXISTING LOAD	600	EXST	201	B	201	EXST	540	EXISTING LOAD
5	EXISTING LOAD	600	EXST	201	C	201	EXST	540	EXISTING LOAD
7	EXISTING LOAD	600	EXST	201	A	201	EXST	540	EXISTING LOAD
9	EXISTING LOAD	540	EXST	201	B	201	EXST	540	EXISTING LOAD
11	EXISTING LOAD	540	EXST	201	C	201	EXST	540	EXISTING LOAD
13	EXISTING LOAD	600	EXST	201	A	201	EXST	540	EXISTING LOAD
15	EXISTING LOAD	600	EXST	201	B	201	EXST	540	EXISTING LOAD
17	EXISTING LOAD	300	EXST	201	C	201	EXST	540	EXISTING LOAD
19	EXISTING LOAD	540	EXST	201	A	201	EXST	300	EXISTING LOAD
21	EXISTING LOAD	540	EXST	201	B	201	EXST	540	EXISTING LOAD
23	EXISTING LOAD	540	EXST	201	C	201	EXST	540	EXISTING LOAD
25	EXISTING LOAD	540	EXST	201	A	201	EXST	540	EXISTING LOAD
27	EXISTING LOAD	540	EXST	201	B	201	EXST	540	EXISTING LOAD
29	EXISTING LOAD	540	EXST	201	C	201	EXST	540	EXISTING LOAD
DEMAND LOAD CALC.									
LIGHTING X 125%		1.2	1.2	0.6	3.0	8.3	3.6	10.4	
RECEPTACLES @ 10KW+50%		3.2	4.3	4.3	11.9	33.0	10.9	30.4	
EQUIPMENT @ 100%		0.7	0.0	0.3	1.0	2.8	1.0	2.8	
HVAC COOLING @ 100%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
HVAC HEATING @ 100%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
KITCHEN @ NEC 220.56		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
LARGEST MOTOR @ 1.25%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SUB PANELS		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL		5.1	5.5	5.2	15.9	44.1	15.7	43.6	
Total Demand KVA: 15.7 Total Demand Amps: 43.6									

PANEL SCHEDULE: 3EQA (EQUIPMENT BRANCH) (EXISTING)									
VOLTS/PHASE: 208Y/120V, 3PH, 4W BUS AMPS: 50A MAIN SIZE/TYPE: 50A/MCB MOUNTING: SURFACE									
SECTION 1									
NO.	DESCRIPTION	LOAD/VA	WIRE	BKR	PHASE	BKR	WIRE	LOAD/VA	DESCRIPTION
1	TERMINAL UNIT CONTROLS	750	#12	201	A	201	EXST	480	AHU-2 LTS & RECIP.
3	FIRE/SMOKE DAMPERS	400	#12	201	B	201	EXST	500	EXISTING LOAD
5	DRYER READER DOORS	150	#12	201	C	201	EXST	500	EXISTING LOAD
7	EXISTING LOAD	500	EXST	201	A	201	EXST	500	EXISTING LOAD
9	EXISTING LOAD	500	EXST	201	B	201	EXST	500	EXISTING LOAD
11	EXISTING LOAD	500	EXST	201	C	201	EXST	500	EXISTING LOAD
13	EXISTING LOAD	500	EXST	201	A	201	EXST	500	EXISTING LOAD
15	EXISTING LOAD	500	EXST	201	B	201	EXST	500	EXISTING LOAD
17	EXISTING LOAD	500	EXST	201	C	201	EXST	500	EXISTING LOAD
19	EXISTING LOAD	500	EXST	201	A	201	EXST	500	EXISTING LOAD
21	EXISTING LOAD	500	EXST	201	B	201	EXST	500	EXISTING LOAD
23	EXISTING LOAD	500	EXST	201	C	201	EXST	500	EXISTING LOAD
25	EXISTING LOAD	500	EXST	201	A	201	EXST	500	EXISTING LOAD
27	EXISTING LOAD	500	EXST	201	B	301	EXST	1000	EXISTING LOAD
29	EXISTING LOAD	500	EXST	201	C				SPACE
DEMAND LOAD CALC.									
LIGHTING X 125%		0.5	0.5	0.5	1.5	4.2	1.9	5.2	
RECEPTACLES @ 10KW+50%		4.0	3.5	3.0	10.5	29.1	10.2	28.4	
EQUIPMENT @ 100%		0.8	1.6	0.7	3.0	8.3	3.0	8.3	
HVAC COOLING @ 100%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
HVAC HEATING @ 100%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
KITCHEN @ NEC 220.56		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
LARGEST MOTOR @ 1.25%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SUB PANELS		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL		5.2	5.6	4.2	15.0	41.6	15.1	42.0	
Total Demand KVA: 15.1 Total Demand Amps: 42.0									

PANEL SCHEDULE: 3EC (CRITICAL BRANCH) (EXISTING)									
VOLTS/PHASE: 208Y/120V, 3PH, 4W BUS AMPS: 125A MAIN SIZE/TYPE: 125A/MCB MOUNTING: SURFACE									
SECTION 1									
NO.	DESCRIPTION	LOAD/VA	WIRE	BKR	PHASE	BKR	WIRE	LOAD/VA	DESCRIPTION
1	LTS. GYM, DINING	1071	#12	201	A	201	EXST	720	EXISTING LOAD
3	Rec. Ref. Dining	800	#12	201	B	201	EXST	720	EXISTING LOAD
5	Rec. Comp. Gym	720	#12	201	C	201	EXST	720	EXISTING LOAD
7	Rec. ADL APT	1080	#12	201	A	301	EXST	1800	EXISTING LOAD
9	EXISTING LOAD	720	EXST	201	B	201	EXST	720	EXISTING LOAD
11	EXISTING LOAD	720	EXST	201	C	201	EXST	720	EXISTING LOAD
13	EXISTING LOAD	720	EXST	201	A	201	EXST	720	EXISTING LOAD
15	EXISTING LOAD	720	EXST	201	B	301	EXST		SPARE
17	EXISTING LOAD	720	EXST	201	C	201	EXST	720	EXISTING LOAD
19	EXISTING LOAD	720	EXST	201	A	201	EXST	500	EXISTING LOAD
21	EXISTING LOAD	720	EXST	201	B	201	EXST		SPARE
23	EXISTING LOAD	720	EXST	201	C	201	EXST	720	EXISTING LOAD
25	EXISTING LOAD	720	EXST	201	A	202	EXST	0	EXISTING LOAD
27	EXISTING LOAD	1800	EXST	301	B			0	EXISTING LOAD
29	EXISTING LOAD	1800	EXST	301	C	301			SPARE
31	SPARE			301	A	201	EXST	720	EXISTING LOAD
33	SPARE			201	B	201	EXST	720	EXISTING LOAD
35	EXISTING LOAD	1800	EXST	301	C	201	EXST	720	EXISTING LOAD
37	EXISTING LOAD	1800	EXST	301	A			2880	
39	EXISTING LOAD	1800	EXST	301	B	503	EXST		PANEL "SECA"
41	EXISTING LOAD	720	EXST	201	C			2160	
DEMAND LOAD CALC.									
LIGHTING X 125%		1.1	0.0	0.0	1.1	3.0	1.3	3.7	
RECEPTACLES @ 10KW+50%		9.0	8.7	10.8	28.5	79.2	19.3	53.5	
EQUIPMENT @ 100%		0.5	0.0	0.0	0.5	1.4	0.5	1.4	
HVAC COOLING @ 100%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
HVAC HEATING @ 100%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
KITCHEN @ NEC 220.56		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
LARGEST MOTOR @ 1.25%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SUB PANELS		2.9	2.2	2.2	7.2	20.0	7.2	20.0	
TOTAL		13.5	10.9	13.0	37.3	103.5	28.3	78.6	
Total Demand KVA: 28.3 Total Demand Amps: 78.6									

PANEL SCHEDULE: 3ECA (CRITICAL BRANCH) (EXISTING)									
VOLTS/PHASE: 208Y/120V, 3PH, 4W BUS AMPS: 100A MAIN SIZE/TYPE: MLO MOUNTING: SURFACE									
SECTION 1									
NO.	DESCRIPTION	LOAD/VA	WIRE	BKR	PHASE	BKR	WIRE	LOAD/VA	DESCRIPTION
1	SPARE			302	A	201	EXST	720	EXISTING LOAD
3	SPARE			201	B	201			SPARE
5	SPARE			201	C	302			SPARE
7	SPARE			201	A	B			SPARE
9	EXISTING LOAD	720	EXST	201	C	302			SPARE
11	EXISTING LOAD	720	EXST	201	A				SPARE
13	EXISTING LOAD	720	EXST	201	B	201	EXST	720	EXISTING LOAD
15	EXISTING LOAD	720	EXST	201	A				SPARE
17	EXISTING LOAD	720	EXST	201	B	201	EXST	720	EXISTING LOAD
19	EXISTING LOAD	720	EXST	201	C	201	EXST	720	EXISTING LOAD
21	SPARE			201	A				SPACE
23	SPARE			502	A	C			SPACE
25	SPARE			A					SPACE
27	SPARE			B					SPACE
29	SPACE			C					SPACE
DEMAND LOAD CALC.									
LIGHTING X 125%		2.0	0.0	0.0	0.0	0.0	0.0	0.0	
RECEPTACLES @ 10KW+50%		2.9	2.2	2.2	7.2	20.0	7.2	20.0	
EQUIPMENT @ 100%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
HVAC COOLING @ 100%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
HVAC HEATING @ 100%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
KITCHEN @ NEC 220.56		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
LARGEST MOTOR @ 1.25%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SUB PANELS		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL		2.9	2.2	2.2	7.2	20.0	7.2	20.0	
Total Demand KVA: 7.2 Total Demand Amps: 20.0									

PANEL SCHEDULE: 3ECB										(CRITICAL BRANCH)		(EXISTING)	
VOLTS/PHASE: 208Y/120V, 3PH, 4W													
BUS AMPS: 50A													
MAIN SIZE/TYPE: 50A/MCB													
MOUNTING: SURFACE													
SECTION 1													
NO.	DESCRIPTION	LOAD/VA	WIRE	BKR	PHASE	BKR	WIRE	LOAD/VA	DESCRIPTION	NO.	DESCRIPTION		
1	LTS. PAT. ROOMS	1819	#12	201	A	201	EXST	360	REC. PAT. ROOMS	2	201		
3	LTS. PAT. ROOMS	1160	#12	201	B	201	EXST	720	REC. PAT. ROOMS	4	201		
5	REC. PAT. ROOMS	720	#12	201	C	201	EXST	180	CRASH CART	6	201		
7	REC. PAT. ROOMS	1440	#12	201	A	201	EXST	1080	REC. PAT. ROOMS	8	201		
9	REC. NURSE STATION	1200	#12	201	B	201	EXST	1080	REC. PAT. ROOMS	10	201		
11	REC. NURSE STATION	1200	#12	201	C	201	EXST	1080	REC. PAT. ROOMS	12	201		
13	PRINTERS	540	#12	201	A	201	EXST	540	EXISTING LOAD	14	201		
15	REC. DICT.	1200	#12	201	B	201	EXST	540	EXISTING LOAD	16	201		
17	REC. MED. ROOM	1560	#12	201	A	201	EXST	540	EXISTING LOAD	18	201		
19	EXISTING LOAD	540	EXST	201	A	201	EXST	540	EXISTING LOAD	20	201		
21	EXISTING LOAD	540	EXST	201	B	201	EXST	540	EXISTING LOAD	22	201		
23	EXISTING LOAD	540	EXST	201	C	201	EXST	540	EXISTING LOAD	24	201		
TOTAL ->													
DEMAND LOAD CALC.		PHASE A	PHASE B	PHASE C	CONNECTED LOAD		DEMAND LOAD		PANEL NOTES				
		PHASE A	PHASE B	PHASE C	PHASE A	PHASE B	PHASE C	PHASE A	SHADING INDICATES NEW DESCRIPTION, LOAD, WIRE AND/OR BREAKER.				
LIGHTING x 120%		1.8	1.2	0.0	3.0	8.3	3.7	10.3					
RECEPTACLES @ 100KVA+50%		5.0	5.8	6.4	17.2	47.8	13.6	37.8					
EQUIPMENT @ 100%		0.0	0.0	0.0	0.0	0.0	0.0	0.0					
HVAC COOLING @ 100%		0.0	0.0	0.0	0.0	0.0	0.0	0.0					
HVAC HEATING @ 100%		0.0	0.0	0.0	0.0	0.0	0.0	0.0					
KITCHEN @ NEC 220.5%		0.0	0.0	0.0	0.0	0.0	0.0	0.0					
LARGEST MOTOR @ 1.25%		0.0	0.0	0.0	0.0	0.0	0.0	0.0					
SUB PANELS		0.0	0.0	0.0	0.0	0.0	0.0	0.0					
TOTAL V		6.8	7.0	6.4	20.2	56.1	17.3	48.1	Total Demand KVVA: 47.3 Total Demand Amps: 48.1				

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DEMOLITION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN "(E)"
	EXISTING TO BE RELOCATED "(R)"
	EXISTING TO BE DEMOLISHED "(D)"

- GENERAL DEMOLITION NOTES
1.

REFER TO THE MECHANICAL AND/OR PLUMBING PLANS FOR EXACT EQUIPMENT LOCATIONS AND ADDITIONAL INFORMATION REGARDING WHICH EQUIPMENT IS TO BE DEMOLISHED.
2.

TO BEGIN THE DEMOLITION INDICATES THAT THE CONTRACTOR ACCEPTS THE EXISTING CONDITIONS.
3.

CONTRACTOR SHALL MAINTAIN ACCESS TO EXISTING ELECTRICAL EQUIPMENT OR DEVICES WHICH REMAIN ACTIVE. CONTRACTOR SHALL EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS AS SPECIFIED.
4.

VERIFY AND/OR DETERMINE EXISTING CIRCUITING ARRANGEMENTS FOR EQUIPMENT TO BE REMOVED BEFORE DE-ENERGIZING ANY CIRCUITS. CONTRACTOR SHALL CIRCUIT TRACE TO DETERMINE PANEL AND CIRCUIT CONNECTIONS FOR ALL EXISTING EQUIPMENT AND/OR CIRCUITS THAT ARE TO BE REMOVED IN PREPARATION FOR THE RENOVATION.
5.

REMOVE ALL EXISTING DEVICES/EQUIPMENT THAT ARE NOT TO BE UTILIZED AFTER THE PROJECT IS COMPLETED. REMOVE ALL CONDUIT AND WIRING BACK TO THE SOURCE AND/OR PANEL, UNLESS INDICATED OTHERWISE. PROVIDE KNOCKOUT COVERS AT UNUSED KNOCKOUT OPENINGS. MAINTAIN OPERATIONAL ALL EXISTING TO REMAIN DEVICES/EQUIPMENT, REGARDLESS IF ANY UPSTREAM DEVICES/EQUIPMENT ARE TO BE DEMOLISHED (EXTEND EXISTING CIRCUITS AS NEEDED). ALL MATERIALS AND EQUIPMENT NOT TO BE REUSED (UNLESS OWNER ELECTS TO RETAIN) IN THE PROJECT BECOMES THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES.
6.

REMOVE EXISTING ELECTRICAL DEVICES WHERE EXISTING WALLS ARE BEING REMOVED.
7.

REFER TO ARCHITECTURAL PLANS FOR AREAS WHERE CEILING IS BEING DEMOLISHED. DEMOLISH LIGHTING FIXTURES AND ELECTRICAL CEILING MOUNTED DEVICES UNLESS INDICATED OTHERWISE.
8.

PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. CONTRACTOR SHALL REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION. IF WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, CONTRACTOR SHALL USE PERSONNEL QUALIFIED FOR SUCH OPERATIONS.
9.

PROPERLY DISPOSE OF ANY HARMFUL COMPONENTS AND SUBSTANCES (BATTERY PACKS, ETC).
10.

PLAN ANY NECESSARY POWER OUTAGES. CONTRACTOR SHALL PREPARE A WRITTEN PROCEDURE TO BE FOLLOWED DURING THE OUTAGE TO COMPLETE THE PLANNED WORK. CONTRACTOR SHALL PROVIDE DETAILS TO THE OWNER OF WHERE POWER DISRUPTION WILL OCCUR, AND SHALL COORDINATE WITH THE OWNER TO DETERMINE WHEN THE POWER DISRUPTION IS ACCEPTABLE.
11.

CONTRACTOR SHALL NOTE ANY EXISTING FIRE RATING/PREVENTION METHODS EMPLOYED AT EACH AREA OF THE SCOPE OF WORK - FIRE CAULK, LIGHTING FIXTURE "FIRE BOXES", ETC. THE CONTRACTOR SHALL MAINTAIN AND/OR RESTORE THE ORIGINAL FIRE RATING (USING SAME METHOD AS ORIGINALLY PROVIDED) AT EACH LOCATION AFFECTED BY THE WORK PERFORMED IN THIS RENOVATION. FINAL INSTALLATION APPROVAL SHALL BE BY THE AHJ AND OWNER.
12.

ALL EXISTING PANELBOARDS AND TRANSFORMERS ARE TO REMAIN UNLESS NOTED OTHERWISE.
13.

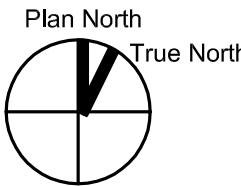
CLEAN AND REPAIR EXISTING MATERIALS AND EQUIPMENT WHICH REMAIN OR ARE TO BE REUSED. IF ANY MATERIAL, EQUIPMENT, AND/OR FINISHES WITHIN THE SCOPE OF WORK IS DAMAGED, THEN RESTORE IT INTO WORKING CONDITION THAT IS ACCEPTABLE BY THE AHJ AND OWNER. IF NECESSARY, THE CONTRACTOR SHALL EMPLOY CRAFTS THAT WERE ORIGINALLY USED TO PERFORM THE EXISTING WORK.
14.

UPON COMPLETION OF RENOVATION, CONTRACTOR SHALL PROVIDE CONTINUITY OF ANY CIRCUITS THAT ARE TO REMAIN THAT WERE INTERRUPTED DUE TO THE DEMOLITION. PROVIDE 'AS-BUILT' DRAWINGS AND ACCURATELY DENOTE EACH CIRCUIT PART OF THE SCOPE OF WORK. UPDATE ALL PANELBOARD/SWITCHBOARD DIRECTORIES AS REQUIRED.

NOTE: ALL ITEMS SHOWN ARE "(D)" EXISTING TO BE DEMOLISHED, UNLESS SPECIFICALLY TAGGED "(E)" EXISTING TO REMAIN OR "(R)" EXISTING TO BE RELOCATED.

- DEMOLITION KEYED NOTES
- 01

REMOVE ALL EXISTING DEVICES/EQUIPMENT THAT ARE NOT TO BE UTILIZED AFTER THE PROJECT IS COMPLETED. REMOVE ALL CONDUIT AND WIRING BACK TO THE SOURCE AND/OR PANEL, UNLESS INDICATED OTHERWISE. PROVIDE KNOCKOUT COVERS AT UNUSED KNOCKOUT OPENINGS. MAINTAIN OPERATIONAL ALL EXISTING TO REMAIN DEVICES/EQUIPMENT, REGARDLESS IF ANY UPSTREAM DEVICES/EQUIPMENT ARE TO BE DEMOLISHED (EXTEND EXISTING CIRCUITS AS NEEDED).



PARTIAL DEMOLITION PLAN - ELECTRICAL - AREA 1

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1

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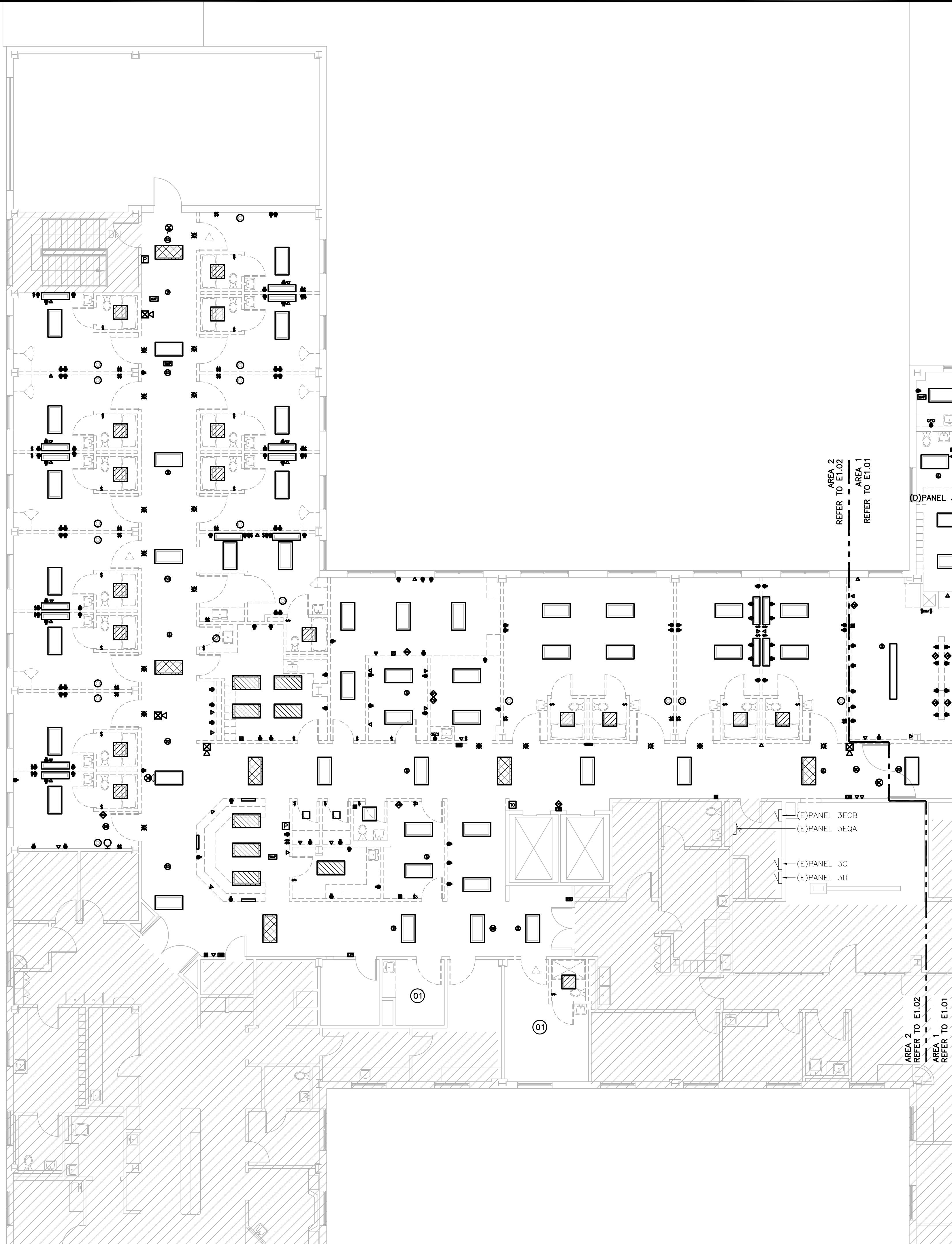
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AREA 1

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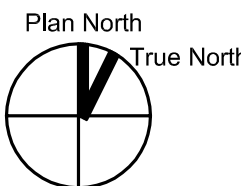
PARTIAL DEMOLITION PLAN - ELECTRICAL - AREA 2

DEMOLITION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN "(E)"
	EXISTING TO BE RELOCATED "(R)"
	EXISTING TO BE DEMOLISHED "(D)"

- GENERAL DEMOLITION NOTES**
- REFER TO THE MECHANICAL AND/OR PLUMBING PLANS FOR EXACT EQUIPMENT LOCATIONS AND ADDITIONAL INFORMATION REGARDING WHICH EQUIPMENT IS TO BE DEMOLISHED.
 - TO BEGIN THE DEMOLITION INDICATES THAT THE CONTRACTOR ACCEPTS THE EXISTING CONDITIONS.
 - CONTRACTOR SHALL MAINTAIN ACCESS TO EXISTING ELECTRICAL EQUIPMENT OR DEVICES WHICH REMAIN ACTIVE. CONTRACTOR SHALL EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS AS SPECIFIED.
 - VERIFY AND/OR DETERMINE EXISTING CIRCUITING ARRANGEMENTS FOR EQUIPMENT TO BE REMOVED BEFORE DE-ENERGIZING ANY CIRCUITS. CONTRACTOR SHALL CIRCUIT TRACE TO DETERMINE PANEL AND CIRCUIT CONNECTIONS FOR ALL EXISTING EQUIPMENT AND/OR CIRCUITS THAT ARE TO BE REMOVED IN PREPARATION FOR THE RENOVATION.
 - REMOVE ALL EXISTING DEVICES/EQUIPMENT THAT ARE NOT TO BE UTILIZED AFTER THE PROJECT IS COMPLETED. REMOVE ALL CONDUIT AND WIRING BACK TO THE SOURCE AND/OR PANEL UNLESS INDICATED OTHERWISE. PROVIDE KNOCKOUT COVERS AT UNUSED KNOCKOUT OPENINGS. MAINTAIN OPERATIONAL ALL EXISTING TO REMAIN DEVICES/EQUIPMENT, REGARDLESS IF ANY UPSTREAM DEVICES/EQUIPMENT ARE TO BE DEMOLISHED (EXTEND EXISTING CIRCUITS AS NEEDED). ALL MATERIALS AND EQUIPMENT NOT TO BE REUSED (UNLESS OWNER ELECTS TO RETAIN) IN THE PROJECT BECOMES THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES.
 - REMOVE EXISTING ELECTRICAL DEVICES WHERE EXISTING WALLS ARE BEING REMOVED.
 - REFER TO ARCHITECTURAL PLANS FOR AREAS WHERE CEILING IS BEING DEMOLISHED. DEMOLISH LIGHTING FIXTURES AND ELECTRICAL CEILING MOUNTED DEVICES UNLESS INDICATED OTHERWISE.
 - PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. CONTRACTOR SHALL REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION. IF WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, CONTRACTOR SHALL USE PERSONNEL QUALIFIED FOR SUCH OPERATIONS.
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 - ALL EXISTING PANELBOARDS AND TRANSFORMERS ARE TO REMAIN UNLESS NOTED OTHERWISE.
 - CLEAN AND REPAIR EXISTING MATERIALS AND EQUIPMENT WHICH REMAIN OR ARE TO BE REUSED. IF ANY MATERIAL, EQUIPMENT, AND/OR FINISHES WITHIN THE SCOPE OF WORK IS DAMAGED, THEN RESTORE IT INTO WORKING CONDITION THAT IS ACCEPTABLE BY THE AHJ AND OWNER. IF NECESSARY, THE CONTRACTOR SHALL EMPLOY CRAFTS THAT WERE ORIGINALLY USED TO PERFORM THE EXISTING WORK.
 - UPON COMPLETION OF RENOVATION, CONTRACTOR SHALL PROVIDE CONTINUITY OF ANY CIRCUITS THAT ARE TO REMAIN THAT WERE INTERRUPTED DUE TO THE DEMOLITION. PROVIDE 'AS-BUILT' DRAWINGS AND ACCURATELY DENOTE EACH CIRCUIT PART OF THE SCOPE OF WORK. UPDATE ALL PANELBOARD/SWITCHBOARD DIRECTORIES AS REQUIRED.

NOTE: ALL ITEMS SHOWN ARE "(D)" EXISTING TO BE DEMOLISHED, UNLESS SPECIFICALLY TAGGED "(E)" EXISTING TO REMAIN OR "(R)" EXISTING TO BE RELOCATED.

- DEMOLITION KEYED NOTES**
- 01 REMOVE ALL EXISTING DEVICES/EQUIPMENT THAT ARE NOT TO BE UTILIZED AFTER THE PROJECT IS COMPLETED. REMOVE ALL CONDUIT AND WIRING BACK TO THE SOURCE AND/OR PANEL UNLESS INDICATED OTHERWISE. PROVIDE KNOCKOUT COVERS AT UNUSED KNOCKOUT OPENINGS. MAINTAIN OPERATIONAL ALL EXISTING TO REMAIN DEVICES/EQUIPMENT, REGARDLESS IF ANY UPSTREAM DEVICES/EQUIPMENT ARE TO BE DEMOLISHED (EXTEND EXISTING CIRCUITS AS NEEDED).



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- ELECTRICAL -
AREA 2**

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JOB NUMBER		18302

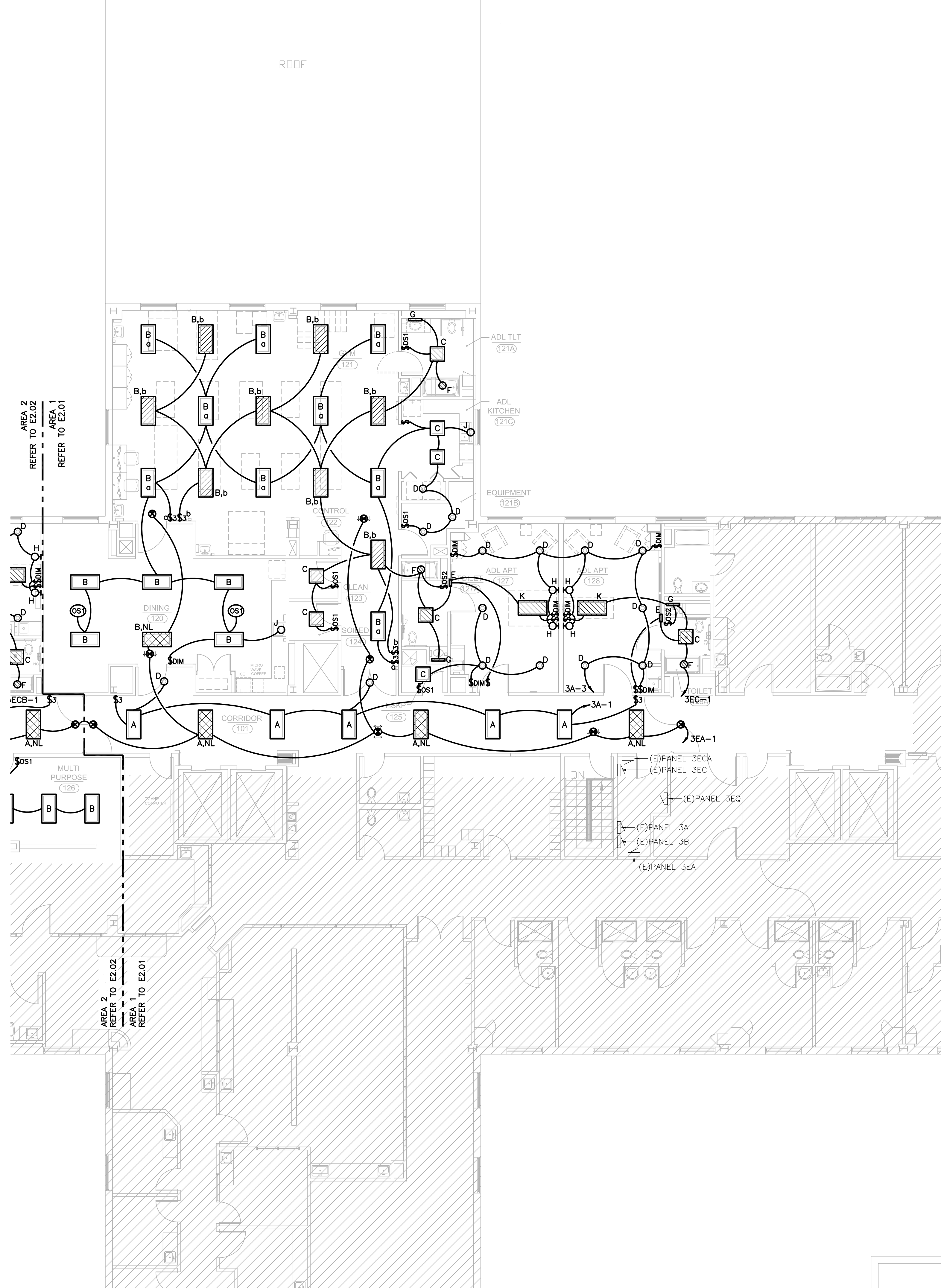
TITLE
PARTIAL FLOOR
PLAN - LIGHTING
- AREA 1

SHEET

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RENOVATION LEGEND

SYMBOL	DESCRIPTION
_____	EXISTING TO REMAIN "E)"
_____	RELOCATED "R)"
_____	NEW CONSTRUCTION

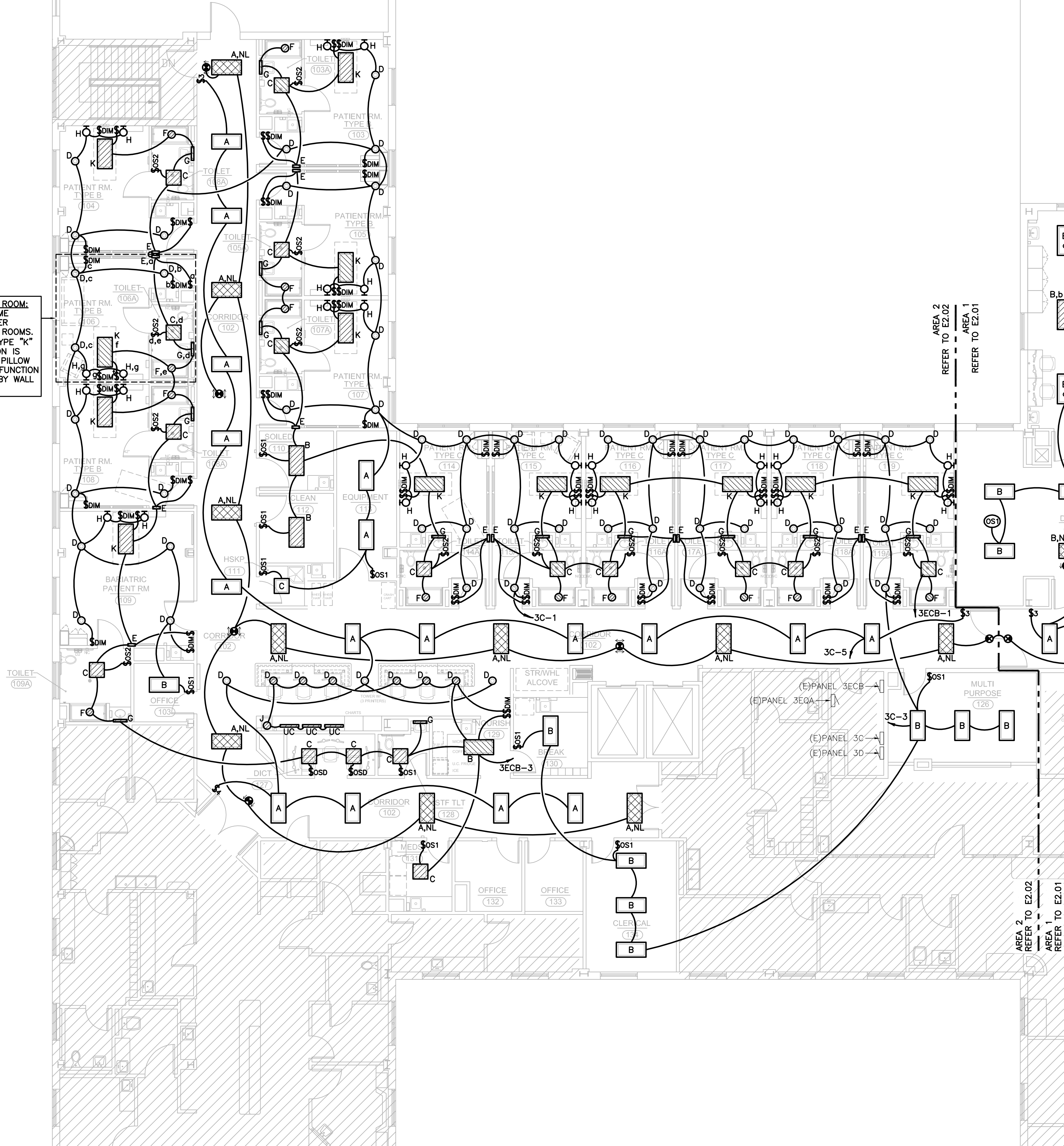
GENERAL LIGHTING NOTES

1. REFER TO THE GENERAL NOTES ON THE INFORMATION SHEET FOR ADDITIONAL INFORMATION.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION, MOUNTING HEIGHT, AND ROTATION OF ALL LIGHTING FIXTURES. REFER TO THE ARCHITECTURAL PLANS FOR CEILING TYPES; COORDINATE ALL FIXTURE TYPES AND APPROPRIATE MOUNTING HARDWARE PRIOR TO PURCHASING.
3. PROVIDE NEW OCCUPANCY SENSORS. THE OCCUPANCY SENSOR LOCATIONS AND ANTENNAS ARE GRAPHICALLY ONLY AND ARE SHOWN FOR GENERAL INTENT AND PRICING ONLY. EXACT SENSOR LOCATION AND PLACEMENT IS TO BE PER THE SELECTED MANUFACTURER LAYOUT. SENSORS ARE TO BE POSITIONED AND AIMED IN SUCH A WAY THAT SENSORS ONLY RESPOND TO MOTION IN THE ROOM CONTAINING THE SENSORS. INSTALL SENSORS AT MINIMUM DISTANCE AWAY FROM HIGH SURFACES AND RETURN WALLS IN ORDER TO AVOID FALSE ACTIVATION; EXACT MOUNTING DISTANCES SHALL BE PER SENSOR MANUFACTURER. WALL-MOUNTED OR CEILING-MOUNTED SENSORS SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE PLACED IN. OCCUPANCY SENSORS ARE TO BE SUPPLIED FROM THE SAME POWER SOURCE THE LIGHTING FIXTURES ARE CONNECTED TO. ALL SENSORS SHALL HAVE NORMALLY CLOSED CONTACTS AND ALLOW CURRENT TO POWER THE LIGHTING FIXTURES IN THE EVENT OF A SENSOR FAILURE. PROVIDE ALL SENSOR POWER PACKS, HARDWARE, AND CIRCUITS AS NEEDED.
4. ALL NEW SWITCHES CONTROLLING EMERGENCY FIXTURES SHALL BE RED AND HAVE A RED COVER PLATE.
5. ALL EXIT LIGHTS ARE FIXTURE TYPE "X".

$$1/8'' = 1'-0''$$

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TYPICAL PATIENT ROOM:
SWITCHING SCHEME
APPLIES TO OTHER
TYPICAL PATIENT ROOMS.
NOTE: FIXTURE TYPE "K"
AMBIENT FUNCTION IS
CONTROLLED BY PILLOW
SPEAKER, EXAM FUNCTION
IS CONTROLLED BY WALL
SWITCH "F".



RENOVATION LEGEND	
SYMBOL	DESCRIPTION
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	NEW CONSTRUCTION

- GENERAL LIGHTING NOTES**
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 - PROVIDE NEW OCCUPANCY SENSORS. THE OCCUPANCY SENSOR LOCATIONS AND QUANTITIES ARE DIAGRAMMATIC ONLY AND ARE SHOWN FOR GENERAL INTENT AND PRICING ONLY. EXACT SENSOR LOCATION AND PLACEMENT IS TO BE PER THE SELECTED MANUFACTURER LAYOUT. SENSORS ARE TO BE POSITIONED AND AIMED IN SUCH A WAY THAT SENSORS ONLY RESPOND TO MOTION IN THE ROOM CONTAINING THE SENSORS. INSTALL SENSORS A SAFE DISTANCE AWAY FROM HVAC SUPPLY AND RETURN GRILLES IN ORDER TO AVOID FALSE ACTIVATION; EXACT MOUNTING DISTANCES SHALL BE PER SENSOR MANUFACTURER. WALL-MOUNTED OR CEILING-MOUNTED SENSORS SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE PLACED IN. OCCUPANCY SENSORS ARE TO BE SUPPLIED FROM THE SAME POWER SOURCE THE LIGHTING FIXTURES ARE CONNECTED TO. ALL SENSORS SHALL HAVE NORMALLY CLOSED CONTACTS AND ALLOW CURRENT TO POWER THE LIGHTING FIXTURES IN THE EVENT OF A SENSOR FAILURE. PROVIDE ALL SENSOR POWER PACKS, HARDWARE, AND CIRCUITS AS NEEDED.
 - ALL NEW SWITCHES CONTROLLING EMERGENCY FIXTURES SHALL BE RED AND HAVE A RED COVER PLATE.
 - ALL EXIT LIGHTS ARE FIXTURE TYPE "X".

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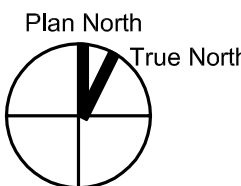
**PARTIAL FLOOR
PLAN - LIGHTING
- AREA 2**

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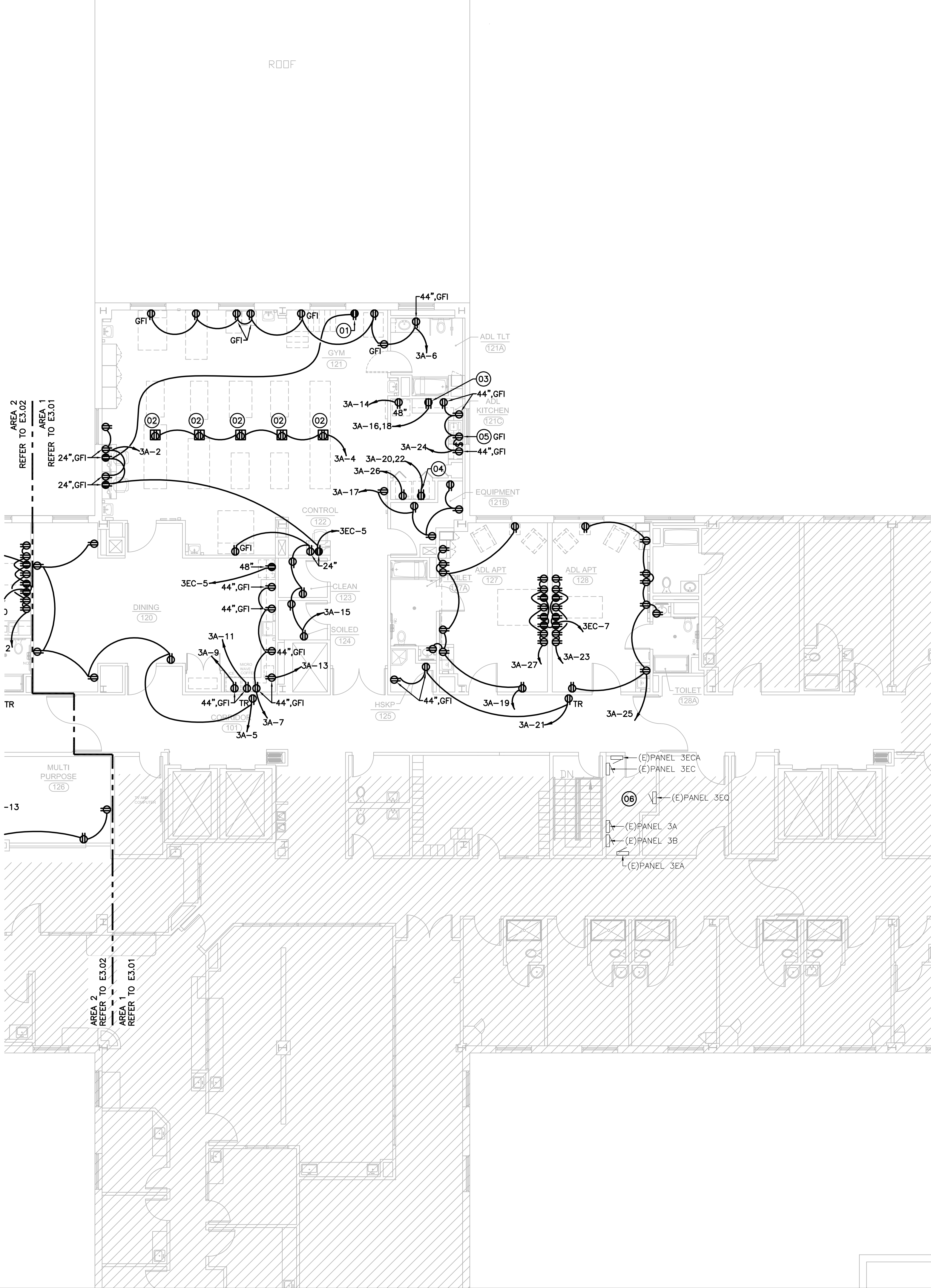


PARTIAL FLOOR PLAN - LIGHTING - AREA 2

1/8" = 1'-0"

1

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crothlauf



RENOVATION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN "(E)"
	RELOCATED "(R)"
	NEW CONSTRUCTION

- GENERAL POWER NOTES
1.

REFER TO THE GENERAL NOTES ON THE INFORMATION SHEET FOR ADDITIONAL INFORMATION.
2.

REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
3.

RECEPTACLE/OUTLET HEIGHTS AND ORIENTATION ARE NOT INTENDED TO BE SHOWN ON THESE PLANS. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR ALL RECEPTACLE/OUTLET HEIGHTS AND ORIENTATION PRIOR TO INSTALLATION. THE ARCHITECTURAL DRAWINGS AND OWNER SPECIFICATIONS SHALL SUPERSEDE ANY HEIGHT DIMENSIONS THAT ARE SHOWN ON THESE PLANS.
4.

ALL RECEPTACLES WITHIN 6FT OF THE OUTSIDE EDGE OF A SINK OR WATER SOURCE (PIPE, HOSE, ETC.) SHALL BE GFCI. THEY SHALL BE CONNECTED TO NOT AFFECT OTHER DEVICES CONNECTED TO THE CIRCUIT IN THE EVENT OF A TRIP. FEED THROUGH TO NON-GFCI RECEPTACLES IS NOT PERMITTED.
5.

ALL RECEPTACLES SHALL BE HOSPITAL GRADE. ONLY SIMPLEX GROUNDING OR DUPLEX GROUNDING DEVICES SHALL BE INSTALLED IN PATIENT CARE SPACES. MULTI-GANGED RECEPTACLES ARE NOT ALLOWED.
6.

ALL NEW RECEPTACLES ON EMERGENCY POWER SHALL BE RED AND HAVE A RED COVER PLATE WITH ENGRAVED CIRCUIT IDENTIFICATION.
7.

PROVIDE TAMPER RESISTANT RECEPTACLES IN ALL WAITING ROOMS, CORRIDORS, PSYCHIATRIC AREAS, PEDIATRIC AREAS & BUSINESS OFFICES.
8.

ALL EXTERIOR RECEPTACLES SHALL BE GFCI, WEATHER RESISTANT, AND BE INSTALLED WITH AN "WHILE-IN-USE" COVER.
9.

ALL BRANCH CIRCUITS SERVING PATIENT CARE SPACES SHALL BE PROVIDED WITH AN EFFECTIVE GROUND-FAULT CURRENT PATH BY INSTALLATION IN A METAL RACEWAY SYSTEM. THE METAL RACEWAY SYSTEM SHALL ITSELF QUALIFY AS AN EQUIPMENT GROUNDING CONDUCTOR. THE FOLLOWING SHALL BE DIRECTLY CONNECTED TO AN INSULATED COPPER EQUIPMENT GROUNDING CONDUCTOR THAT IS CLEARLY IDENTIFIED ALONG ITS ENTIRE LENGTH BY GREEN INSULATION AND INSTALLED WITH THE BRANCH CIRCUIT CONDUCTORS IN THE WIRING METHODS LISTED ABOVE:

a.

THE GROUNDING TERMINALS OF ALL RECEPTACLES OTHER THAN ISOLATED GROUND RECEPTACLES

b.

METAL OUTLET BOXES, METAL DEVICE BOXES, OR METAL ENCLOSURES

c.

ALL NON-CURRENT-CARRYING CONDUCTIVE SURFACES OF FIXED ELECTRICAL EQUIPMENT LIKELY TO BECOME ENERGIZED THAT ARE SUBJECT TO PERSONAL CONTACT, OPERATING AT OVER 100 VOLTS

- POWER KEYED NOTES
- 01

RECEPTACLE FOR PATIENT LIFT SYSTEM. VERIFY AND COORDINATE REQUIREMENTS AND LOCATION. MOUNT RECEPTACLE 6" BELOW CEILING.
- 02

FLOOR BOX SHALL BE HUBBELL 2-GANG SYSTEM ONE RECESSED CONCRETE FLOOR RECTANGULAR BOX OR EQUIVALENT. PROVIDE FLUSH COVER WITH CABLE EGRESS DOORS. VERIFY AND COORDINATE WITH SLAB THICKNESS.
- 03

PROVIDE 208V/50A/2P RECEPTACLE FOR OWNER FURNISHED, OWNER INSTALLED ELECTRIC RANGE. COORDINATE ALL WORK WITH OWNER'S REPRESENTATIVE.
- 04

PROVIDE 208V/30A/2P RECEPTACLE FOR OWNER FURNISHED, OWNER INSTALLED DRYER. COORDINATE ALL WORK WITH OWNER'S REPRESENTATIVE.
- 05

PROVIDE GFI RECEPTACLE UNDER SINK FOR GARBAGE DISPOSAL WITH ABOVE COUNTER SWITCH FOR CONTROL.
- 06

THE EQUIPMENT GROUNDING TERMINAL BUSES OF THE NORMAL AND ESSENTIAL BRANCH-CIRCUIT PANELBOARDS SERVING THE SAME INDIVIDUAL PATIENT CARE VICINITY SHALL BE CONNECTED TOGETHER WITH AN INSULATED CONTINUOUS COPPER CONDUCTOR NOT SMALLER THAN #10, RUN IN 1/2".

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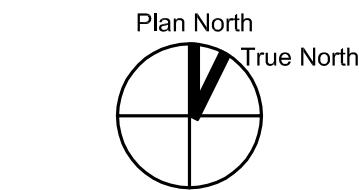
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PARTIAL FLOOR
PLAN - POWER -
AREA 1

SHEET

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PARTIAL FLOOR PLAN - POWER - AREA 1

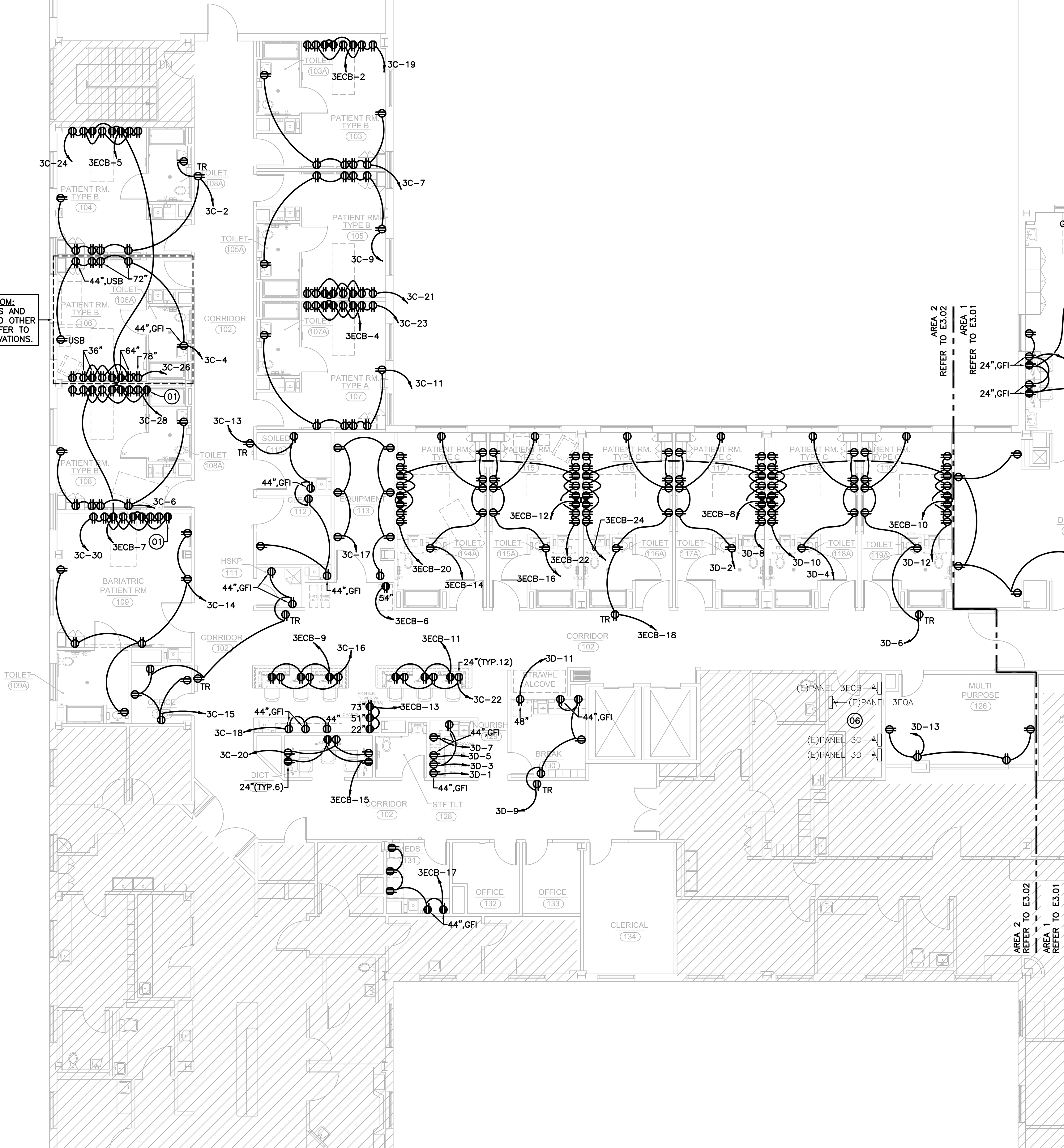


1/8" = 1'-0"

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crothlauf

TYPICAL PATIENT ROOM:
RECEPTACLE HEIGHTS AND
NOTATIONS APPLY TO OTHER
PATIENT ROOMS. REFER TO
ARCHITECTURAL ELEVATIONS.



RENOVATION LEGEND	
SYMBOL	DESCRIPTION
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	RELOCATED "(R)"
	NEW CONSTRUCTION

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 - METAL OUTLET BOXES, METAL DEVICE BOXES, OR METAL ENCLOSURES
 - ALL NON-CURRENT-CARRYING CONDUCTIVE SURFACES OF FIXED ELECTRICAL EQUIPMENT LIKELY TO BECOME ENERGIZED THAT ARE SUBJECT TO PERSONAL CONTACT, OPERATING AT OVER 100 VOLTS

- POWER KEYED NOTES**
- RECEPTACLE FOR PATIENT LIFT SYSTEM. VERIFY AND COORDINATE REQUIREMENTS AND LOCATION. MOUNT RECEPTACLE 6" BELOW CEILING.
 - FLOOR BOX SHALL BE HUBBELL 2-GANG SYSTEM ONE RECESSED CONCRETE FLOOR RECTANGULAR BOX OR EQUIVALENT. PROVIDE FLUSH COVER WITH CABLE EGRESS DOORS. VERIFY AND COORDINATE WITH SLAB THICKNESS.
 - PROVIDE 208V/50A/2P RECEPTACLE FOR OWNER FURNISHED, OWNER INSTALLED ELECTRIC RANGE. COORDINATE ALL WORK WITH OWNER'S REPRESENTATIVE.
 - PROVIDE 208V/30A/2P RECEPTACLE FOR OWNER FURNISHED, OWNER INSTALLED DRYER. COORDINATE ALL WORK WITH OWNER'S REPRESENTATIVE.
 - PROVIDE GFI RECEPTACLE UNDER SINK FOR GARBAGE DISPOSAL WITH ABOVE COUNTER SWITCH FOR CONTROL.
 - THE EQUIPMENT GROUNDING TERMINAL BUSES OF THE NORMAL AND ESSENTIAL BRANCH-CIRCUIT PANELBOARDS SERVING THE SAME INDIVIDUAL PATIENT CARE VICINITY SHALL BE CONNECTED TOGETHER WITH AN INSULATED CONTINUOUS COPPER CONDUCTOR NOT SMALLER THAN #10, RUN IN 1/2".

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**PARTIAL FLOOR
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AREA 2**

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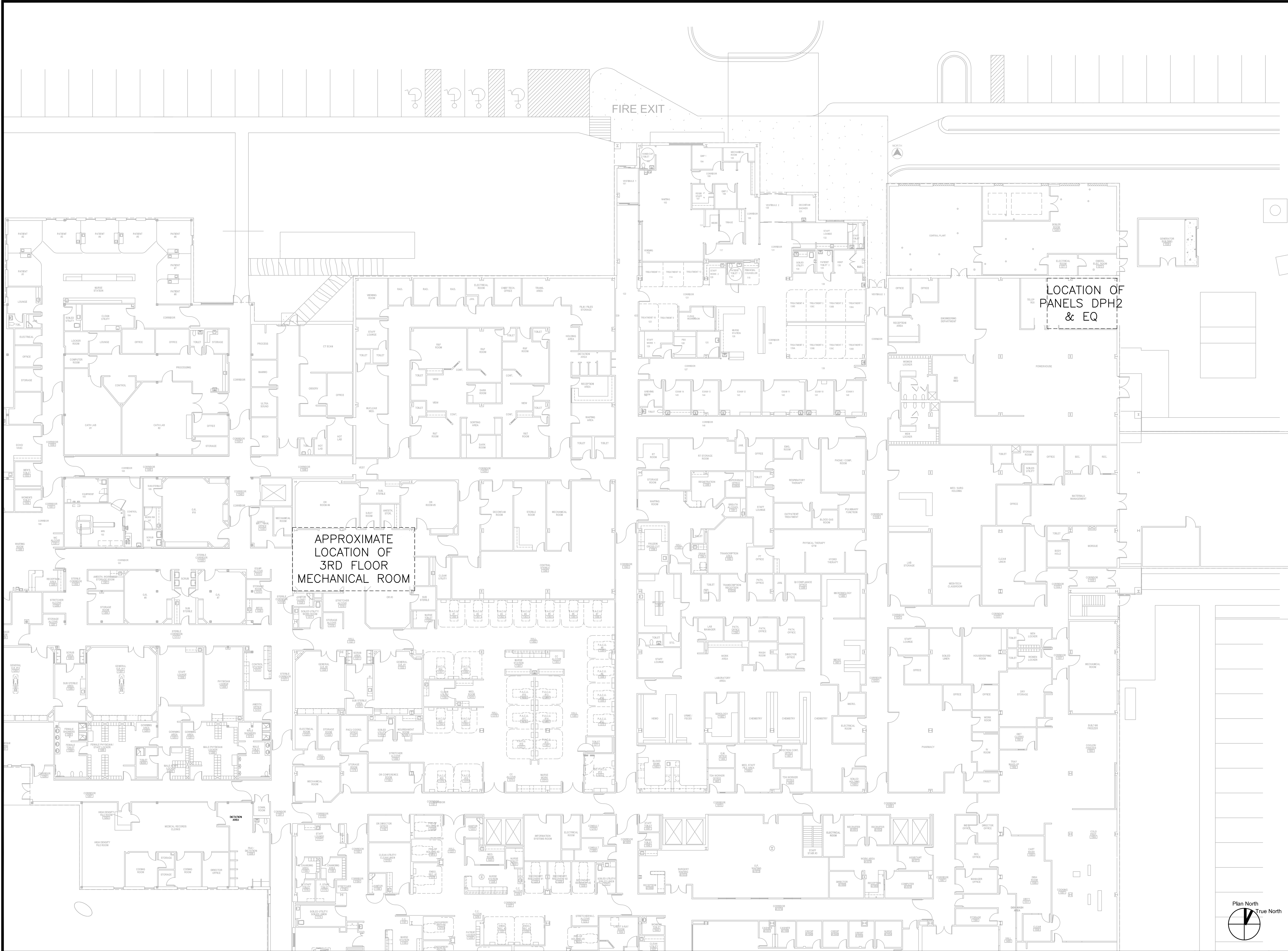
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PARTIAL FLOOR PLAN - POWER - AREA 2

1/8" = 1'-0"

1

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PARTIAL OVERALL 1ST FLOOR PLAN - EQUIPMENT POWER

1/16" = 1'-0"

1

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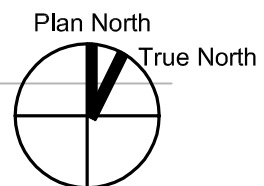
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18302	SHEET

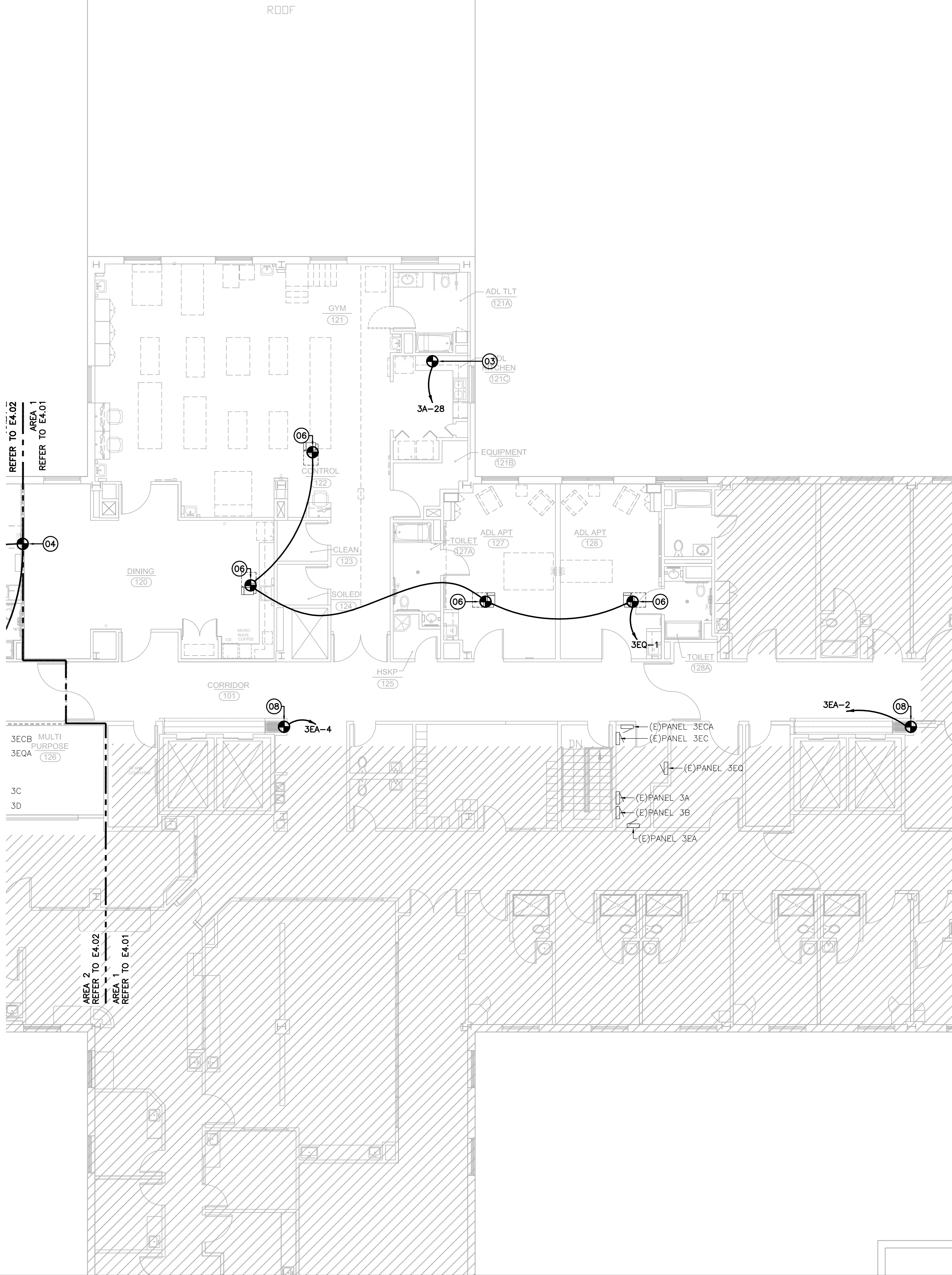


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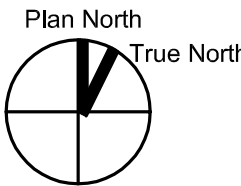
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RENOVATION LEGEND	
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	RELOCATED "(R)"
	NEW CONSTRUCTION

- GENERAL EQUIPMENT POWER NOTES**
- REFER TO THE GENERAL NOTES ON THE INFORMATION SHEET FOR ADDITIONAL INFORMATION.
 - REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - REFER TO THE MECHANICAL AND/OR PLUMBING PLANS FOR EXACT EQUIPMENT LOCATIONS. EQUIPMENT LOCATIONS SHOWN ON THE ELECTRICAL PLANS ARE FOR REFERENCE ONLY.
 - ALL PANELBOARDS ARE EXISTING TO REMAIN UNLESS INDICATED OTHERWISE.
 - PROVIDE PERMANENT AFFIXED NAMEPLATES ON ALL ELECTRICAL EQUIPMENT ENCLOSURES OR HOUSINGS THAT ARE PART OF THE SCOPE OF WORK UNLESS NOTED OTHERWISE.
 - ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED PER THE NEC REQUIRED CLEARANCES. THE WORKING/SPACE CLEARANCES SHALL BE AT A MINIMUM OF 4FT. IN FRONT OF THE EQUIPMENT AND 6FT. ABOVE (OR AS INDICATED PER THE NEC). PRIOR TO THE ELECTRICAL CONTRACTOR BID PROCESS, VERIFY THAT ALL ELECTRICAL CLEARANCES ARE MET BY OBTAINING THE EQUIPMENT DIMENSIONS FROM A MANUFACTURER AND GRAPHICALLY POSITION SCALED EQUIPMENT FIGURES INTO THE ELECTRICAL ROOMS DRAWINGS AND OTHER AREAS. CONSIDER ALL CEILING HEIGHT LIMITATIONS. PRIOR TO THE START OF ANY CONSTRUCTION, NOTIFY THE ENGINEER IN A WRITTEN MANNER IF ANY DISCREPANCIES ARE FOUND.
 - COORDINATE ANY ROOF PENETRATION WITH OTHER TRADES. ALL ROOF PENETRATIONS SHALL BE PROPERLY SEALED IN ORDER TO PREVENT WATER LEAKAGE.
 - COORDINATE THE LOCATION, MOUNTING HEIGHT, AND ORIENTATION OF ALL ELECTRICAL DEVICES AND OUTLETS WITH ALL OTHER TRADES PRIOR TO ROUGH-IN AND/OR INSTALLATION.
 - REFER TO THE MECHANICAL DRAWINGS TO VERIFY EQUIPMENT REQUIRING SINGLE POINT CONNECTION. IF SINGLE POINT CONNECTION IS PRESENT, CONFIRM EXACT LOCATION OF CONNECTION WITH MANUFACTURER.
 - THE WIRING BETWEEN EQUIPMENT SHALL INDICATE THAT THE CONNECTED EQUIPMENT SHARE A COMMON CIRCUIT BREAKER. REFER TO THE EQUIPMENT CONNECTION SCHEDULE FOR THE CIRCUIT BREAKER SIZE, CIRCUIT SIZE, AND PANEL SOURCE IDENTIFICATION. THE CIRCUIT HOMERUN TO THE PANEL OR SUPPLY SOURCE SHALL BE MADE FROM THE MIDDLE OF THE CONNECTED EQUIPMENT, AS TO MINIMIZE THE VOLTAGE DROP. THE EQUIPMENT SHALL BE WIRED IN A MANNER IN WHICH EACH PIECE OF EQUIPMENT CAN BE DISCONNECTED INDEPENDENTLY FROM THE CIRCUIT WITHOUT AFFECTING ANY DOWNSTREAM OR UPSTREAM CONNECTED DEVICES/EQUIPMENT.
 - REFER TO THE MECHANICAL PLANS AND VERIFY WHICH EQUIPMENT REQUIRES A BAS CONNECTION. PROVIDE ALL NEW NECESSARY WIRING, CONDUIT, CONNECTIONS, AND TERMINATIONS FROM THE EQUIPMENT TO THE BUILDING AUTOMATION SYSTEM CONTROL PANEL. ALL WIRING SHALL BE IN CONDUIT.
 - DO NOT PENETRATE ANY EQUIPMENT UNIT HOUSINGS. PENETRATIONS SHALL ONLY BE ALLOWED IF MADE INTO THE EQUIPMENT MANUFACTURER'S PROVIDED KNOCK-OUTS OR OPENINGS.

- EQUIPMENT POWER KEYED NOTES**
- PROVIDE POWER CONNECTION TO CARD READER ACCESS DOOR. VERIFY AND COORDINATE REQUIREMENTS.
 - PROVIDE POWER CONNECTION TO MEDICAL GAS ALARM PANEL. VERIFY AND COORDINATE REQUIREMENTS.
 - PROVIDE POWER CONNECTION TO RANGE HOOD. VERIFY AND COORDINATE REQUIREMENTS.
 - PROVIDE POWER CONNECTION TO FIRE/SMOKE DAMPER. VERIFY AND COORDINATE REQUIREMENTS.
 - PROVIDE POWER CONNECTION TO MOTORIZED DAMPER. VERIFY AND COORDINATE REQUIREMENTS.
 - PROVIDE POWER CONNECTION TO TERMINAL UNIT CONTROLS. VERIFY AND COORDINATE REQUIREMENTS.
 - PROVIDE POWER CONNECTION TO AHU UV LIGHTS, MARINE LIGHTS, AND RECEPTACLE. VERIFY AND COORDINATE REQUIREMENTS.
 - PROVIDE POWER CONNECTION TO WON FIRE DOOR. VERIFY AND COORDINATE REQUIREMENTS.



PARTIAL FLOOR PLAN - EQUIPMENT POWER - AREA 1

1/8" = 1'-0"

1

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POWER - AREA 1**
SHEET

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crothlauf

AHU-2 SUPPLY FANS
3EQA-2
AHU-2 RETURN FANS
REFER TO ONE-LINE RISER
DIAGRAM THIS SHEET

(E) WIREWAY. REFER
TO ONE-LINE RISER
DIAGRAM THIS SHEET

TO AHU-2 SUPPLY FANS
(TYPICAL OF 2)
3#4, 1#6G, 1°C

60/3
35AF

(E) TO EXHAUST FAN

TO AHU-2 RETURN FANS
3#10, 1#10G, 3/4°C

MAINTAIN NEW 3#1, 1#6G
THROUGH-OUT ENTIRE WIREWAY

3rd FLOOR
MECHANICAL ROOM

NEW 3#1, 1#6G, IN EXISTING 1-1/4°C

REMOVE EXISTING 3#3, 1#8G FROM EXISTING
1-1/4°C BACK TO PANEL DPH2. PROVIDE NEW
3#1, 1#6G IN EXISTING 1-1/4°C.
REROUTE/EXTEND EXISTING 1-1/4°C TO PANEL EQ.

(D) 3#3, 1#8G, 1-1/4°C

(E) PANEL
DPH2
277/480V
3ø-4W
1200A MLO
(NORMAL
BRANCH)

(E) PANEL
EQ
480V
3ø-3W
800A MLO
(EQUIPMENT
BRANCH)

PROVIDE NEW 150/3 CB
IN PANEL EQ TO SERVE
3RD FLOOR MECHANICAL
ROOM WIREWAY.
REFER TO PANEL
SCHEDULE.
SEE SHEET E4.00 FOR
LOCATION.

1st FLOOR
ELECTRICAL ROOM

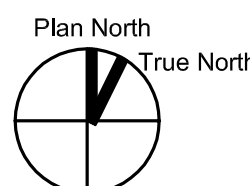
ONE-LINE RISER DIAGRAM

NO SCALE

AREA 2
REFER TO E4.02

AREA 1
REFER TO E4.01

TOILET
(109A)



PARTIAL FLOOR PLAN - EQUIPMENT POWER - AREA 2

RENOVATION LEGEND

SYMBOL	DESCRIPTION
---	EXISTING TO REMAIN "(E)"
---	RELOCATED "(R)"
---	NEW CONSTRUCTION

GENERAL EQUIPMENT POWER NOTES

- REFER TO THE GENERAL NOTES ON THE INFORMATION SHEET FOR ADDITIONAL INFORMATION.
- REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- REFER TO THE MECHANICAL AND/OR PLUMBING PLANS FOR EXACT EQUIPMENT LOCATIONS. EQUIPMENT LOCATIONS SHOWN ON THE ELECTRICAL PLANS ARE FOR REFERENCE ONLY.
- ALL PANELBOARDS ARE EXISTING TO REMAIN UNLESS INDICATED OTHERWISE.
- PROVIDE PERMANENT AFFIXED NAMEPLATES ON ALL ELECTRICAL EQUIPMENT ENCLOSURES OR HOUSINGS THAT ARE PART OF THE SCOPE OF WORK UNLESS NOTED OTHERWISE.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED PER THE NEC REQUIRED CLEARANCES. THE WORKING/SPACE CLEARANCES SHALL BE AT A MINIMUM OF 4FT. IN FRONT OF THE EQUIPMENT AND 6FT. ABOVE (OR AS INDICATED PER THE NEC). PRIOR TO THE ELECTRICAL CONTRACTOR BID PROCESS, VERIFY THAT ALL ELECTRICAL CLEARANCES ARE MET BY OBTAINING THE EQUIPMENT DIMENSIONS FROM A MANUFACTURER AND GRAPHICALLY POSITION SCALED EQUIPMENT FIGURES INTO THE ELECTRICAL ROOMS DRAWINGS AND OTHER AREAS. CONSIDER ALL CEILING HEIGHT LIMITATIONS. PRIOR TO THE START OF ANY CONSTRUCTION, NOTIFY THE ENGINEER IN A WRITTEN MANNER IF ANY DISCREPANCIES ARE FOUND.
- COORDINATE ANY ROOF PENETRATION WITH OTHER TRADES. ALL ROOF PENETRATIONS SHALL BE PROPERLY SEALED IN ORDER TO PREVENT WATER LEAKAGE.
- COORDINATE THE LOCATION, MOUNTING HEIGHT, AND ORIENTATION OF ALL ELECTRICAL DEVICES AND OUTLETS WITH ALL OTHER TRADES PRIOR TO ROUGH-IN AND/OR INSTALLATION.
- REFER TO THE MECHANICAL DRAWINGS TO VERIFY EQUIPMENT REQUIRING SINGLE POINT CONNECTION. IF SINGLE POINT CONNECTION IS PRESENT, CONFIRM EXACT LOCATION OF CONNECTION WITH MANUFACTURER.
- THE WIRING BETWEEN EQUIPMENT SHALL INDICATE THAT THE CONNECTED EQUIPMENT SHARE A COMMON CIRCUIT BREAKER. REFER TO THE EQUIPMENT CONNECTION SCHEDULE FOR THE CIRCUIT BREAKER SIZE, CIRCUIT SIZE, AND PANEL SOURCE IDENTIFICATION. THE CIRCUIT HOMERUN TO THE PANEL OR SUPPLY SOURCE SHALL BE MADE FROM THE MIDDLE OF THE CONNECTED EQUIPMENT, AS TO MINIMIZE THE VOLTAGE DROP. THE EQUIPMENT SHALL BE WIRED IN A MANNER IN WHICH EACH PIECE OF EQUIPMENT CAN BE DISCONNECTED INDEPENDENTLY FROM THE CIRCUIT WITHOUT AFFECTING ANY DOWNSTREAM OR UPSTREAM CONNECTED DEVICES/EQUIPMENT.
- REFER TO THE MECHANICAL PLANS AND VERIFY WHICH EQUIPMENT REQUIRES A GAS CONNECTION. PROVIDE ALL NEW NECESSARY WIRING, CONDUIT, CONNECTIONS, AND TERMINATIONS FROM THE EQUIPMENT TO THE BUILDING AUTOMATION SYSTEM CONTROL PANEL. ALL WIRING SHALL BE IN CONDUIT.
- DO NOT PENETRATE ANY EQUIPMENT UNIT HOUSINGS. PENETRATIONS SHALL ONLY BE ALLOWED IF MADE INTO THE EQUIPMENT MANUFACTURER'S PROVIDED KNOCK-OUTS OR OPENINGS.

EQUIPMENT POWER KEYED NOTES

- PROVIDE POWER CONNECTION TO CARD READER ACCESS DOOR. VERIFY AND COORDINATE REQUIREMENTS.
- PROVIDE POWER CONNECTION TO MEDICAL GAS ALARM PANEL. VERIFY AND COORDINATE REQUIREMENTS.
- PROVIDE POWER CONNECTION TO RANGE HOOD. VERIFY AND COORDINATE REQUIREMENTS.
- PROVIDE POWER CONNECTION TO FIRE/SMOKE DAMPER. VERIFY AND COORDINATE REQUIREMENTS.
- PROVIDE POWER CONNECTION TO MOTORIZED DAMPER. VERIFY AND COORDINATE REQUIREMENTS.
- PROVIDE POWER CONNECTION TO TERMINAL UNIT CONTROLS. VERIFY AND COORDINATE REQUIREMENTS.
- PROVIDE POWER CONNECTION TO AHU UV LIGHTS, MARINE LIGHTS, AND RECEPTACLE. VERIFY AND COORDINATE REQUIREMENTS.
- PROVIDE POWER CONNECTION TO WON FIRE DOOR. VERIFY AND COORDINATE REQUIREMENTS.

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Sheet Information

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TITLE
**PARTIAL FLOOR
PLAN -
EQUIPMENT
POWER - AREA 2**

SHEET

E4.02

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1

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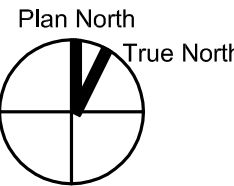


RENOVATION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN "(E)"
	RELOCATED "(R)"
	NEW CONSTRUCTION

SPECIAL SYSTEMS COORDINATION	
THE INTENT OF THIS DRAWING IS TO PROVIDE THE CONTRACTOR WITH AN APPROXIMATE LAYOUT AND ESTIMATION OF THE QUANTITY OF BOXES FOR SPECIAL SYSTEMS DEVICES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL FIRE ALARM & NURSE CALL COMPONENTS, QUANTITIES & LOCATIONS WITH THE OWNER'S PREFERRED VENDORS. CONTRACTOR SHALL UPDATE THEIR BACKBOX/CONDUIT QUANTITIES AFTER COORDINATING WITH VENDORS AND INCLUDE CORRECT QUANTITIES IN BID. REFER TO GENERAL SPECIAL SYSTEMS NOTES.	

GENERAL SPECIAL SYSTEMS NOTES	
<p>1. ALL SPECIAL SYSTEMS BOXES, SLEEVES & CONDUIT ARE PART OF THIS CONTRACT.</p> <p>2. PROVIDE BOXES & 1-INCH CONDUIT WITH CONNECTOR & BUSHING TO ACCESSIBLE LOCATION ABOVE THE CEILING. PROVIDE A PULL STRING IN EACH CONDUIT AND TIE OFF PULL STRING ABOVE CEILING. FOR FLOOR OUTLETS, PROVIDE 1-INCH CONDUIT TO ACCESSIBLE LOCATION ABOVE THE CEILING ON THE FLOOR SERVED BY THE OUTLET.</p> <p>3. DATA/COMMUNICATION/PHONE & SECURITY/ACCESS CONTROL: CONTRACTOR SHALL ONLY PROVIDE BOXES, SLEEVES & CONDUIT AS DESCRIBED ABOVE IN NOTE 2. CABLING, DEVICES & INSTALLATION ARE OWNER FURNISHED & OWNER INSTALLED AND WILL NOT BE PART OF THIS CONTRACT.</p> <p>4. FIRE ALARM & NURSE CALL: CABLING, DEVICES AND INSTALLATION ARE TO BE SUBCONTRACTED (AS PART OF THIS CONTRACT) TO THE OWNER'S PREFERRED SPECIAL SYSTEMS VENDOR. PROVIDE BOXES, SLEEVES AND CONDUIT AS DESCRIBED ABOVE IN NOTE 2. VERIFY AND COORDINATE.</p>	

SPECIAL SYSTEMS SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	COMMUNICATIONS DATA/PHONE OUTLET.
	COMMUNICATIONS TELEVISION OUTLET.
	COMMUNICATIONS SPEAKER.
	COMMUNICATIONS WIRELESS ACCESS POINT.
	FIRE ALARM CONTROL PANEL.
	FIRE ALARM ANNUNCIATOR PANEL.
	FIRE ALARM PULL STATION.
	FIRE ALARM STROBE.
	FIRE ALARM COMBINATION HORN/STROBE.
	FIRE ALARM SMOKE DETECTOR.
	FIRE ALARM DUCT MOUNTED SMOKE DETECTOR.
	FIRE ALARM REMOTE TEST SWITCH.
	FIRE ALARM HEAT DETECTOR.
	FIRE ALARM MAGNETIC DOOR HOLDER.
	NURSE CALL MASTER.
	NURSE CALL TERMINAL CABINET.
	NURSE CALL DOME LIGHT. 1900 BOX WITH SINGLE GANG TRIM & 1" CONDUIT.
	NURSE CALL ZONE LIGHT. 1900 BOX WITH SINGLE GANG TRIM & 1" CONDUIT.
	NURSE CALL SINGLE BED PATIENT STATION. 3-GANG & 1" CONDUIT.
	NURSE CALL CODE BLUE STATION. 1-GANG & 1" CONDUIT.
	NURSE CALL EMERGENCY PULL STATION. 1-GANG & 1" CONDUIT.
	NURSE CALL DUTY STATION. 3-GANG & 1" CONDUIT.
	SECURE ACCESS REQUEST TO EXIT.
	SECURE ACCESS CARD READER.
NOTE: NOT ALL SYMBOLS MAY BE USED.	



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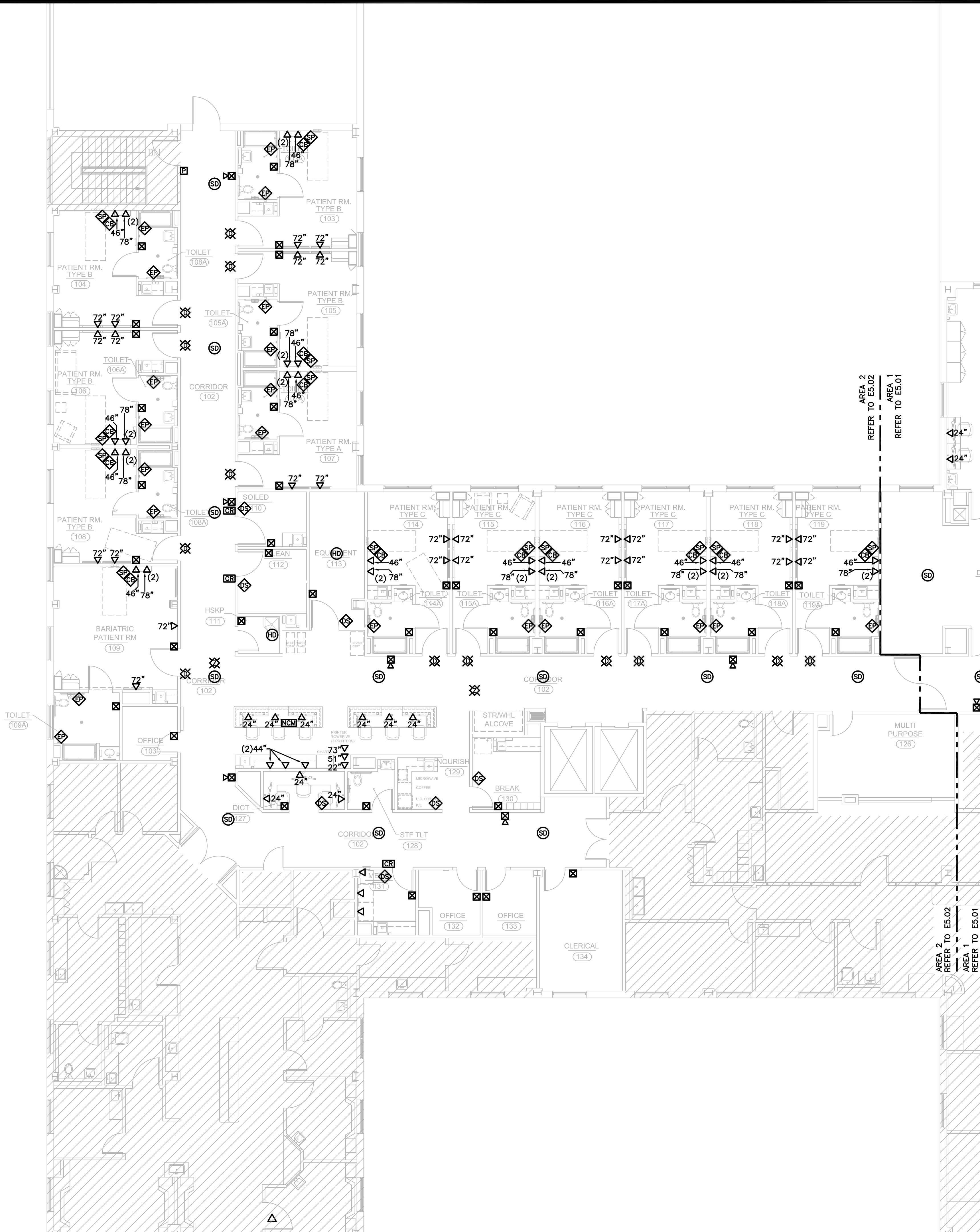
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PARTIAL FLOOR		
PLAN - SPECIAL		
SYSTEMS - AREA 1		
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PARTIAL FLOOR PLAN - SPECIAL SYSTEMS - AREA 1

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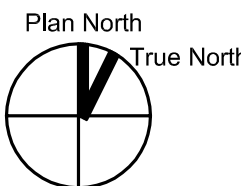
PARTIAL FLOOR PLAN - SPECIAL SYSTEMS - AREA 2

RENOVATION LEGEND	
SYMBOL	DESCRIPTION
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	RELOCATED "(R)"
	NEW CONSTRUCTION

SPECIAL SYSTEMS COORDINATION	
THE INTENT OF THIS DRAWING IS TO PROVIDE THE CONTRACTOR WITH AN APPROXIMATE LAYOUT AND ESTIMATION OF THE QUANTITY OF BOXES FOR SPECIAL SYSTEMS DEVICES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL FIRE ALARM & NURSE CALL COMPONENTS, QUANTITIES & LOCATIONS WITH THE OWNER'S PREFERRED VENDORS. CONTRACTOR SHALL UPDATE THEIR BACKBOX/CONDUIT QUANTITIES AFTER COORDINATING WITH VENDORS AND INCLUDE CORRECT QUANTITIES IN BID. REFER TO GENERAL SPECIAL SYSTEMS NOTES.	

GENERAL SPECIAL SYSTEMS NOTES	
1. ALL SPECIAL SYSTEMS BOXES, SLEEVES & CONDUIT ARE PART OF THIS CONTRACT.	
2. PROVIDE BOXES & 1-INCH CONDUIT WITH CONNECTOR & BUSHING TO ACCESSIBLE LOCATION ABOVE THE CEILING. PROVIDE A PULL STRING IN EACH CONDUIT AND TIE OFF PULL STRING ABOVE CEILING. FOR FLOOR OUTLETS, PROVIDE 1-INCH CONDUIT TO ACCESSIBLE LOCATION ABOVE THE CEILING ON THE FLOOR SERVED BY THE OUTLET.	
3. DATA/COMMUNICATION/PHONE & SECURITY/ACCESS CONTROL: CONTRACTOR SHALL ONLY PROVIDE BOXES, SLEEVES & CONDUIT AS DESCRIBED ABOVE IN NOTE 2. CABLING, DEVICES & INSTALLATION ARE OWNER FURNISHED & OWNER INSTALLED AND WILL NOT BE PART OF THIS CONTRACT.	
4. FIRE ALARM & NURSE CALL: CABLING, DEVICES AND INSTALLATION ARE TO BE SUBCONTRACTED (AS PART OF THIS CONTRACT) TO THE OWNER'S PREFERRED SPECIAL SYSTEMS VENDOR. PROVIDE BOXES, SLEEVES AND CONDUIT AS DESCRIBED ABOVE IN NOTE 2. VERIFY AND COORDINATE.	

SPECIAL SYSTEMS SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	COMMUNICATIONS DATA/PHONE OUTLET.
	COMMUNICATIONS TELEVISION OUTLET.
	COMMUNICATIONS SPEAKER.
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	FIRE ALARM ANNUNCIATOR PANEL.
	FIRE ALARM PULL STATION.
	FIRE ALARM STROBE.
	FIRE ALARM COMBINATION HORN/STROBE.
	FIRE ALARM SMOKE DETECTOR.
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	FIRE ALARM HEAT DETECTOR.
	FIRE ALARM MAGNETIC DOOR HOLDER.
	NURSE CALL MASTER.
	NURSE CALL TERMINAL CABINET.
	NURSE CALL DOME LIGHT. 1900 BOX WITH SINGLE GANG TRIM & 1" CONDUIT.
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	NURSE CALL SINGLE BED PATIENT STATION. 3-GANG & 1" CONDUIT.
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	NURSE CALL DUTY STATION. 3-GANG & 1" CONDUIT.
	SECURE ACCESS REQUEST TO EXIT.
	SECURE ACCESS CARD READER.
NOTE: NOT ALL SYMBOLS MAY BE USED.	



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TITLE
PARTIAL FLOOR
PLAN - SPECIAL
SYSTEMS - AREA 2

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NOTE

FIRE RATING OF COMPLETED FIREPROOFED ASSEMBLY SHALL EQUAL OR EXCEED THE FIRE RATING OF THE FLOOR

3 FLOOR PENETRATION DETAIL

NOT TO SCALE

NOTE

FIRE RATING OF COMPLETED FIREPROOFED ASSEMBLY SHALL EQUAL OR EXCEED THE FIRE RATING OF THE WALL

2 FIRE WALL PENETRATION DETAIL

NOT TO SCALE

PROVIDE ENGRAVED FACEPLATES FOR RECEPTACLES AND LIGHT SWITCHES INDICATING THE PANELBOARD AND THE SUPPLY BRANCH CIRCUIT NUMBER. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

1 ELECTRICAL DEVICE IDENTIFICATION

NOT TO SCALE

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INFORMATION SHEET - PLUMBING

PLUMBING DEMOLITION NOTES

- CONTRACTOR SHALL REMOVE EXISTING SERVICES SUCH AS WATER, WASTE & VENT PIPING SERVING FIXTURES AND/OR CONNECTIONS TO EQUIPMENT WHICH ARE SHOWN ON THE DRAWINGS TO BE REMOVED OR RELOCATED. PERMANENTLY SEAL AND CAP SERVICES NEXT TO MAIN SERVICE LINES ABOVE CEILINGS, IN WALLS, OR BELOW FLOORS UNLESS NOTED OTHERWISE. EXISTING PLUMBING FIXTURES AND RELATED ITEMS WHICH ARE TO BE REMOVED SHALL BE SUBMITTED TO THE OWNER. ITEMS THE OWNER WISHES TO RETAIN SHALL BE DELIVERED TO STORAGE WHERE DIRECTED BY OWNER. ITEMS THE OWNER DOES NOT WISH TO REMAIN SHALL BE LEGALLY DISPOSED OF.
- TEMPORARY SHUTDOWN OF EQUIPMENT AND SERVICES THAT ARE ASSOCIATED WITH THIS SCOPE OF WORK SHALL BE COORDINATED WITH THE OWNER PRIOR TO THE SHUTDOWN. PROVIDE OWNER WITH ESTIMATED DURATION OF SHUT DOWN.
- CONTRACTOR SHALL ENSURE NO DOMESTIC COLD AND/OR HOT WATER DEAD LEGS EXIST WITHIN SCOPE OF PLUMBING DEMOLITION.
- EXISTING FIXTURES, EQUIPMENT, SERVICES, AND CONNECTIONS SHALL BE VERIFIED FOR EXACT LOCATIONS AND SIZE. IF DEVIATIONS ARE FOUND, CONTRACTOR SHALL BRING THEM TO THE ARCHITECT'S ATTENTION FOR COORDINATION.
- EXISTING FIXTURES, EQUIPMENT, SERVICES, AND CONNECTIONS WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE REWORKED OR REPLACED AS REQUIRED TO PROVIDE ORIGINAL OPERATION.
- PENETRATIONS THROUGH EXISTING PARTITIONS AND FLOORS SHALL BE SLEEVED AND SEALED TO MAINTAIN RATING OF EXISTING PARTITION AND FLOOR RATING.
- EXISTING PLUMBING SERVICES NOT SHOWN ON DRAWINGS SHALL REMAIN AS IS UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL COORDINATE THE INTERRUPTION OF EXISTING SERVICES WITH THE OWNER PRIOR TO START OF DEMOLITION WORK.

PIPING MATERIALS SCHEDULE

PLUMBING SYSTEM	PLUMBING MATERIAL DESCRIPTION
SANITARY DRAIN PIPING	STANDARD WEIGHT CAST IRON PIPE, W/ NO-HUB JOINTS (ABOVE SLAB)
VENT PIPING	STANDARD WEIGHT CAST IRON PIPE, W/ NO-HUB JOINTS (ABOVE SLAB)
DOMESTIC WATER PIPING	TYPE 'L' COPPER TUBING, W/ WROUGHT COPPER FITTINGS
MEDICAL GAS PIPING	TYPE 'K' COPPER TUBING, W/ BRAZED WROUGHT COPPER FITTINGS
FIRE PROTECTION PIPING	SCHEDULE 40 BLACK STEEL PIPE ,W/ CAST IRON FITTINGS

SHOCK ARRESTOR SCHEDULE

P.D.I. SYMBOL	FIXTURE UNITS	SIZE	MODEL NUMBER*
	1-11	1/2" NPT	SC-500
	12-32	3/4" NPT	SC-750
	33-60	1" NPT	SC-1000
	61-113	1 1/4" NPT	SC-1250
	114-154	1 1/2" NPT	SC-1500
	155-330	2" NPT	SC-2000

NOTES:
1. ALL FIXTURE WATER SUPPLIES SHALL BE INSTALLED WITH APPROPRIATELY SIZED ARRESTORS IN COMPLIANCE WITH MANUFACTURER'S INSTALLATION RECOMMENDATIONS.

NOTICE TO CONTRACTORS

HCA MAINTAINS PURCHASING AGREEMENTS FOR ZURN AND ELKAY PLUMBING PRODUCTS. CONTRACTORS SHALL CONTACT HCA'S PREFERRED DISTRIBUTOR TO OBTAIN ALTERNATIVE COMPETITIVE PRICING.
FERGUSON ENTERPRISES, INC.
ATTN: ALTON LASSITER OR BEN FAULK
ALTONLASSITER@FERGUSON.COM
BENFAULK@FERGUSON.COM
PHONE 615-316-1800
FAX 615-885-4944
VENDOR REFERENCE #994645
CONTACT #5999

PLUMBING SYMBOLS

	SPRINKLER PIPE
	DRAIN PIPING
	DRY SPRINKLER PIPE
	FIRE LINE
	PRE-ACTION SPRINKLER PIPE
	NATURAL GAS PIPING
	GREASE WASTE ABOVE SLAB
	GREASE WASTE BELOW SLAB
	STORM OVER FLOW DRAIN
	PROPANE GAS PIPING
	PUMPED SANITARY SEWER
	PUMPED STORM SEWER
	STORM DRAIN ABOVE SLAB
	STORM DRAIN BELOW SLAB
	SPRINKLER LINE
	SANITARY SEWER ABOVE SLAB
	SANITARY SEWER BELOW SLAB
	SANITARY VENT
	COLD WATER
	HOT WATER
	HOT WATER RETURN
	SOFTENED WATER
	REVERSE OSMOSIS
	DEIONIZED WATER
	DIRECTION OF FLOW
	DIRECTION OF SLOPE DOWN
	DROP IN PIPE
	RISE IN PIPE
	SHUT-OFF VALVE
	SHUT-OFF VALVE
	CHECK VALVE
	SUPERVISED VALVE WITH FLOW SWITCH
	PLUG VALVE / GAS COCK
	BUTTERFLY VALVE
	BALANCING VALVE
	PIPE UNION
	PRESSURE CONTROL VALVE
	3-WAY VALVE
	SOLENOID VALVE
	FLOW SWITCH
	PRESSURE GAUGE WITH GAUGE COCK
	THERMOMETER
	ROOF DRAIN / OVERFLOW DRAIN
	FLOOR DRAIN
	FLOOR SINK
	T & P RELIEF VALVE
	STRAINER
	END OF LINE CLEANOUT
	FLOOR CLEANOUT
	WALL CLEANOUT
	CAP
	CUT/CAP
	FLEXIBLE CONNECTION
	NEW CONNECTION TO EXISTING
	DEMO EXISTING PIPING TO THIS POINT
	NEW ITEMS
	EXISTING ITEMS
	RELOCATED ITEMS
	ITEMS TO BE REMOVED
	MEDICAL AIR
	MEDICAL AIR INTAKE
	OXYGEN
	MEDICAL VACUUM
	MEDICAL VACUUM EXHAUST
	WASTE ANESTHETIC GAS DISPOSAL
	NITROGEN
	NITROUS OXIDE
	CARBON DIOXIDE
	COMPRESSED AIR
	COPPER TUBING TO ALARM SENSORS

PLUMBING GENERAL NOTES

- OBTAIN ALL NECESSARY PERMITS, AND COMPLY WITH ALL NATIONAL, STATE AND MUNICIPAL LAWS, CODES AND ORDINANCES RELATING TO BUILDING AND PUBLIC SAFETY.
- PROTECT EQUIPMENT AND WORK FROM DAMAGE DURING HANDLING AND INSTALLATION UNTIL COMPLETION OF CONSTRUCTION.
- REMOVE ALL EXCESS MATERIAL AND DEBRIS AND CLEAN ALL EQUIPMENT UPON COMPLETION OF WORK. TOUCH UP WITH PAINT WHERE REQUIRED.
- ALL SYSTEMS SHALL BE COMPLETE AND WORKING AT COMPLETION OF CONSTRUCTION.
- CONTRACTOR SHALL VISIT JOB SITE AND VERIFY SIZE AND LOCATION OF ALL EXISTING ITEMS AND CONDITIONS.
- ALL CONNECTIONS BETWEEN PIPES OF DISSIMILAR MATERIALS SHALL BE MADE WITH DIELECTRIC UNIONS. PROVIDE ACCESS PANELS WHERE REQUIRED.
- COORDINATE INSTALLATION OF WATER, WASTE, VENT, AND MEDICAL GAS PIPING WITH OTHER TRADES TO AVOID SPACING AND/OR ROUTING CONFLICTS.
- CONTRACTOR SHALL COORDINATE ALL WORK CLOSELY WITH EXISTING TO REMAIN AND NEW MECHANICAL AND ELECTRICAL ITEMS.
- SUBMIT SHOP DRAWINGS OF PROPOSED NEW DEVICES PRIOR TO INSTALLATION.
- FIXTURES, EQUIPMENT AND CONNECTIONS, AND PIPING SHALL BE FURNISHED AND INSTALLED TO MEET OR EXCEED STATE AND LOCAL CODES AND REQUIREMENTS.
- FURNISH AND INSTALL SHOCK ARRESTORS IN COLD WATER LINES AT CONNECTIONS TO FLUSH VALVES AND QUICK CLOSING VALVES AND AT ALL HOT AND COLD WATER CONNECTIONS TO FIXTURES.
- DRAWINGS ARE SCHEMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES.
- ALL PROPOSED SAWCUT LOCATIONS THROUGH EXISTING FLOOR SLAB ARE TO BE COORDINATED WITH AND APPROVED BY THE OWNER PRIOR TO SAWCUTTING.
- ALL MEDICAL GAS IN-LINE SERVICE VALVES SHALL BE LOCKABLE.
- CONTRACTOR SHALL NOTIFY OWNER OF ANY REQUIRED SHUT DOWNS AND COORDINATE THESE WITH OWNER. DOWNTIME SHALL BE HELD TO A MINIMUM.
- PIPING USED IN THE FINAL CONNECTION OF APPLIANCES (BETWEEN THE SHUTOFF VALVE AND THE APPLIANCE), SUCH AS ICE MACHINES, COFFEE MAKERS, WATER DISPENSERS, SHALL BE SOFT TEMPER (MALLEABLE), TYPE "L" COPPER WITH COMPRESSION FITTINGS. THE USE OF NYLON OR OTHER PLASTIC TUBING FOR THESE CONNECTIONS IS NOT ALLOWED.

FIRE PROTECTION NOTES

- THE SPRINKLER CONTRACTOR SHALL MODIFY THE EXISTING AUTOMATIC SPRINKLER SYSTEM INFRASTRUCTURE FOR THE RENOVATION TO FULLY SPRINKLE THE ENTIRE PROJECT SCOPE. CONTRACTOR SHALL CONFIRM SPRINKLER HEAD STYLES WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF HOUSTON BUILDING CODE, NFPA 13, AND ALL AUTHORITIES HAVING JURISDICTION.
- THE ENTIRE RENOVATION SHALL BE FURNISHED WITH A 100% HYDRAULICALLY CALCULATED AUTOMATIC WET PIPE SPRINKLER SYSTEM. SYSTEM(S) SHALL BE HYDRAULICALLY CALCULATED UTILIZING DESIGN DENSITIES AND REMOTE AREA AS RECOMMENDED BY NFPA. ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE.
- PROVIDE CONCEALED CEILING SPRINKLER HEADS WITH FACTORY FINISH IN PUBLIC AREAS AND AREAS VISIBLE TO STAFF AND PATIENTS WITH FINISHED CEILINGS.
- PROVIDE SEMI-RECESSED OR PENDANT TYPE SPRINKLER HEADS AS APPROPRIATE IN STORAGE AND BACK OF HOUSE AREAS.
- SPRINKLER HEADS SHALL BE CENTERED IN TWO DIRECTIONS IN CEILING TILES.
- ALL MATERIALS AND EQUIPMENT SHALL BE FM APPROVED AND UL LISTED.
- SPRINKLER SHOP DRAWINGS AND HYDRAULIC CALCULATIONS PREPARED BY A LICENSED SPRINKLER CONTRACTOR SHALL BE SUBMITTED TO THE OWNER, ARCHITECT, OWNERS INSURING AGENCY, AND ALL REQUIRED AUTHORITIES HAVING JURISDICTION FOR REVIEW AND APPROVAL. SUBMITTED SHOP DRAWINGS AND CALCULATIONS SHALL BEAR THE APPROVAL STAMP OF ALL REQUIRED REVIEWING AUTHORITIES.
- COORDINATE SPRINKLER PIPING INSTALLATION WITH ALL OTHER TRADES.
- COORDINATE SPRINKLER PIPING WITH NEW INSTALLATION OF DUCTWORK, CEILINGS AND LIGHT FIXTURES.
- VISIT JOB SITE PRIOR TO SUBMISSION OF BID TO DETERMINE ALL EXISTING CONDITIONS AND HOW THEY WILL RELATE WITH THE NEW CONSTRUCTION.

DRAWING INDEX

NUMBER	DRAWING TITLE
P0.00	INFORMATION SHEET - PLUMBING
P0.01	SCHEDULE SHEET - PLUMBING
P1.01	DEMOLITION PLAN - PLUMBING
P2.00	UNDER FLOOR PLAN - PLUMBING
P2.01	FLOOR PLAN - PLUMBING
P2.02	ENLARGED FLOOR PLANS - PLUMBING
P2.03	ENLARGED FLOOR PLANS - PLUMBING
P2.04	ENLARGED FLOOR PLANS - PLUMBING
P2.05	ENLARGED FLOOR PLANS - PLUMBING
P3.01	FLOOR PLAN - MED GAS AND FIRE PROTECTION
P4.01	DETAILS - PLUMBING
P5.01	RISERS - PLUMBING

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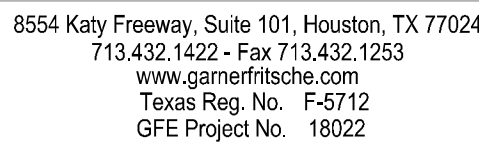
ZONE VALVE BOX SCHEDULE							
SYMBOL	DESCRIPTION & LOCATION	VALVE SIZE					
		OXYGEN	AIR	VACUUM	NITROUS OXIDE	NITROGEN	WAGD
<u>206-1</u>	WALL MOUNTED RECESSED ZONE VALVE BOX SERVES PATIENT ROOMS, PROVIDE BEACON MEDAEAS AS REQUIRED OR EQUAL. PRESSURE/VACUUM SENSORS SHALL BE LOCATED IN ZONE VALVE BOX. REFER TO ARCHITECT FOR EXACT LOCATION AND ELEVATION.	3/4"	—	1-1/4"	—	—	—
<u>206-2</u>	WALL MOUNTED RECESSED ZONE VALVE BOX TO SERVE PATIENT ROOMS, PROVIDE BEACON MEDAEAS AS REQUIRED OR EQUAL. PRESSURE/VACUUM SENSORS SHALL BE LOCATED IN ZONE VALVE BOX. REFER TO ARCHITECT FOR EXACT LOCATION AND ELEVATION.	3/4"	—	1-1/4"	—	—	—
<u>206-3</u>	WALL MOUNTED RECESSED ZONE VALVE BOX TO SERVE PATIENT ROOMS, GYM AND DINING ROOM. PROVIDE BEACON MEDAEAS AS REQUIRED OR EQUAL. PRESSURE/VACUUM SENSORS SHALL BE LOCATED IN ZONE VALVE BOX. REFER TO ARCHITECT FOR EXACT LOCATION AND ELEVATION.	1/2"	—	3/4"	—	—	—

MEDICAL GAS EQUIPMENT SCHEDULE								
SYMBOL	DESCRIPTION & LOCATION	QUANTITY						
		O2	AIR	VAC	SLIDE	WAGD	N2	N2O
MG-1	WALL MOUNTED MED GAS OUTLET. PROVIDE BEACONMEADES OR APPROVED EQUAL, DIAMOND II/GEMINI STYLE WALL MOUNTED SERVICE OUTLET. ASSEMBLY TO BE WHERE SHOWN ON PLANS, REFER TO ARCHITECT FOR EXACT LOCATION AND ELEVATION. COORDINATE OUTLET MANUFACTURER, TYPE WITH OWNER/ARCHITECT PRIOR TO SUBMITTAL AND PURCHASE.	1	-	1	1	-	-	-
MG-2	WALL MOUNTED MED GAS OUTLET. PROVIDE BEACONMEADES OR APPROVED EQUAL, DIAMOND II/GEMINI STYLE WALL MOUNTED SERVICE OUTLET. ASSEMBLY TO BE WHERE SHOWN ON PLANS, REFER TO ARCHITECT FOR EXACT LOCATION AND ELEVATION. COORDINATE OUTLET MANUFACTURER, TYPE WITH OWNER/ARCHITECT PRIOR TO SUBMITTAL AND PURCHASE.	1	-	-	-	-	-	-
MP-1	WALL MOUNTED RECESSED AREA ALARM PANEL. PANEL SHALL HAVE A LCD TOUCH SCREEN DISPLAY FOR EACH GAS SERVICE WITH THE CAPABILITY TO MONITOR 16 GASES. PANEL SHALL HAVE A MINIMUM OF 16 INPUTS. PANEL TO BE LOCATED WHERE SHOWN ON PLANS, REFER TO ARCHITECT FOR EXACT LOCATION AND ELEVATION. COORDINATE OUTLET MANUFACTURER, TYPE WITH OWNER/ARCHITECT PRIOR TO SUBMITTAL AND PURCHASE.	1	-	1	-	-	-	-

PLUMBING FIXTURE SCHEDULE				
ID	ITEM	MANUFACTURER/ MODEL NO.	FIXTURE SERVICE	REMARKS
WC-1	WATER CLOSET FLOOR MOUNTED FLUSH VALVE BARRIER-FREE (ADA)	AMERICAN STANDARD MODEL NO. 3248.001 "RIGHT WIDTH" FLOWISE ELONGATED "RIGHT HEIGHT" FLOOR MOUNTED FLOOR OUTLET VITREOUS CHINA WATER CLOSET, 1.6 GALLON FLUSH HET (HIGH EFFICIENT TOILET), W/RIM @ 17" AFF, BED PAN LUGS. CHURCH NO. 9500C WHITE OPEN FRONT SEAT .SLOAN FLUSH VALVE #BPW1150-1.6, 1.6 GPF, BEDPAN WASHER, VANDAL RESISTANT CAP, 1 1/2" TOP SPUD.	1" CW 4" WASTE 2" VENT	RE: ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. FLUSH HANDLE SHALL BE ON ACCESSIBLE SIDE OF FIXTURE.
WC-2	WATER CLOSET FLOOR MOUNTED FLUSH VALVE BARRIER-FREE (ADA)	AMERICAN STANDARD MODEL NO. 3043.001 "RIGHT WIDTH" FLOOR MOUNTED WATER CLOSET, 1.28 GALLON FLUSH HET, W/RIM @ 17" AFF, SLOAN ROYAL MODEL NO. 111-1.28 FLUSH HET (HIGH EFFICIENT TOILET), 1-1/2" TOP SPUD CHURCH NO. 9500C WHITE OPEN FRONT SEAT.	1" CW 4" WASTE 2" VENT	RE: ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. FLUSH HANDLE SHALL BE ON ACCESSIBLE SIDE OF FIXTURE.
L-1	LAVATORY WALL HUNG BARRIER-FREE (ADA) WRISTBLADE HANDLES GOOSENECK SPOUT	AMERICAN STANDARD MODEL NO. 0958.008EC MURRO LAVATORY, 8" CENTERS, MODEL NO. 0059.020EC SHROUD, FURNISH W/JAY R. SMITH #0710 FLOOR-MOUNTED LAVATORY SUPPORT W/CONCEALED ARMS. CHICAGO FAUCET NO. 786-GN2FCJKCP WITH PLAIN END SPOUT, RIGID MOUNT. TRIM: MCGUIRE #155WC GRID DRAIN WITH 1 1/4" TAILPIECE, OFFSET FOR WHEELCHAIR USE, #8872 - 1 1/4" P-TRAP, #H-2165 SUPPLY STOPS.	1/2" CW 1/2" HW 2" WASTE 2" VENT	RIGID MTD GOOSENECK SPOUT W/INTEGRAL 0.5 GPM LAMINAR FLOW CONTROL, INSTALL TRAP, STOPS AND SUPPLIES WITHIN SHROUD. PRE-FABRICATED INSULATION ON WATER LINES AND P-TRAP: BROCAR PRODUCTS, INC., TRAP WRAP TRUE BRO, INC., HANDI LAV GUARD, MCGUIRE PRO-WRAP. REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT.
L-2	LAVATORY INTEGRAL W/COUNTER WRISTBLADE HANDLES GOOSENECK SPOUT	FIXTURE: INTEGRAL WITH COUNTERTOP, FAUCET: CHICAGO FAUCET NO. 786-GN2FCJKCP WITH PLAIN END SPOUT, RIGID MOUNT, MCGUIRE NO. 1000-WC.1 1/4" TAILPIECE, OFFSET FOR WHEELCHAIR USE, #8872 1-1/4" P-TRAP, #H-2165 SUPPLY STOPS.	1/2" CW 1/2" HW 2" WASTE 2" VENT	PRE-FABRICATED INSULATION ON WATER LINES AND P-TRAP: BROCAR PRODUCTS, INC., TRAP WRAP TRUE BRO, INC., HANDI LAV GUARD, MCGUIRE PRO-WRAP.
L-3	LAVATORY SELF RIMMING BARRIER-FREE WRISTBLADE HANDLES GOOSENECK SPOUT (PATIENT)	AMERICAN STANDARD MODEL NO. 0475.020 AQUALYN VITREOUS CHINA DROP-IN SINK, CHICAGO FAUCET NO. 786-GN2FCJKCP WITH PLAIN END SPOUT, RIGID MOUNT. TRIM: MCGUIRE #155WC GRID DRAIN W/1 1/4" TAILPIECE, OFFSET FOR WHEELCHAIR USE, #8872 - 1 1/4" P-TRAP, #H-2165 SUPPLY STOPS. PROVIDE LEONARD MODEL NO. 270-LF POINT OF USE MIXING VALVE SET AT 110 DEG F.	1/2" CW 1/2" HW 2" WASTE 2" VENT	RIGID MTD 5 1/4" GOOSENECK SPOUT W/INTEGRAL 1.5 GPM LAMINAR FLOW CONTROL: PRE-FABRICATED INSULATION ON WATER LINES AND P-TRAP: BROCAR PRODUCTS, INC., TRAP WRAP TRUE BRO, INC., HANDI LAV GUARD, MCGUIRE PRO-WRAP. REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT.
SK-1	SINGLE COMPARTMENT SINK GOOSENECK SPOUT WRISTBLADE HANDLES BARRIER FREE (ADA)	ELKAY MODEL LRAD2219, 18 GAUGE STAINLESS STEEL SELF-RIMMING SINK, REAR-CENTER DRAIN, 6" DEEP. FAUCET: CHICAGO FAUCET NO. 786-GN2FCJKCP WITH PLAIN END SPOUT, RIGID MOUNT. TRIM: MCGUIRE NO. 151A DRAIN WITH 1 1/2" TAILPIECE, #1151AWC, WITH OFFSET #8089 P-TRAP, #H-2165 SUPPLY STOPS.	1/2" CW 1/2" HW 2" WASTE 2" VENT	SINGLE COMPARTMENT SINK 18" X 14" X 6"DEEP I.D. RIGID MTD 5 1/4" GOOSENECK SPOUT W/INTEGRAL 1.5 GPM LAMINAR FLOW CONTROL.
SK-2	DOUBLE COMPARTMENT SINK STAFF 10" SWING SPOUT WRISTBLADE HANDLES BARRIER FREE	ELKAY MODEL NO. LRAD3319, 18 GAUGE STAINLESS STEEL SELF-RIMMING SINK, REAR-CENTER DRAINS. FAUCET: ELKAY MODEL NO. LK800HA10T4, 10" SWING SPOUT, 4"WRISTBLADE HANDLES, QUARTER TURN CARTRIDGES, 1.5 GPM FLOW RESTRICTION INSERT. TRIM: MCGUIRE NO. 151A DRAINS WITH 1 1/2" TAILPIECES, #111-1 1/2" CONTINUOUS WASTE, #8089 P-TRAP, #H-2165 SUPPLY STOPS. 1-1/2" P-TRAP.	1/2" CW 1/2" HW 2" WASTE 2" VENT	DOUBLE COMPARTMENT SINK 28"x22"x6"DEEP. RIGID/SWING GOOSENECK W/INTEGRAL 1.6 GPM LAMINAR FLOW. PRO-WRAP (OR EQUAL) TRAP WRAP KIT.
SH-1	SHOWER PATIENT ROOMS BARRIER FREE TAS COMPLIANT	SHOWER ENCLOSURE SYSTEM TO BE PROVIDED BY GENERAL CONTRACTOR AND INSTALLED BY PLUMBING CONTRACTOR. RE: ARCHITECTURAL DRAWINGS. TRIM: SYMMONS VISU-TEMP SHOWER VALVE MODEL NO. 4-5000VT-X PRESSURE BALANCING MIXING VALVE WITH CLEAR-VUE THERMOMETER AND ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN, ADJUST STOP SCREW FOR MAXIMUM 105 DEG. F. HOT WATER. SYMMONS NO. T-600B-36-V-2.0-QD WALL MOUNTED 36" GRAB/SLIDE BAR FOR HAND SHOWER MOUNTING, QUICK DISCONNECT FEATURE, #ADAHS HAND SHOWER WAND WITH NON-POSITIVE SHUT OFF. JAY R. SMITH MODEL NO. 220-10 SHOWER DRAIN W/ ROUND CHROME PLATED STRAINER.	1/2" CW 1/2" HW 2" WASTE 2" VENT	2.0 GPM, 60 INCH FLEXIBLE METAL HOSE, IN-LINE VACUUM BREAKER, 90 DEGREE WATER SUPPLY ELBOW.
BT-1	BATH TUB/SHOWER ENAMELED STEEL BARRIER FREE	AMERICAN STANDARD #0255.202 ENAMELED STEEL, ONE PIECE TUB WITH SLIP RESISTANT STANDING AREA SURFACE. AMERICAN STANDARD #1583.002 UNIVERSAL BATH DRAIN, POLISHED CHROME PLATED.	1/2" CW 1/2" HW 2" WASTE 2" VENT	SYMMONS VISU-TEMP MODEL NO. 1-3170VT-H401-V-X-3/4-QD-B30 PRESSURE BALANCING MIXING VALVE WITH CLEAR-VUE THERMOMETER AND ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN, 30" SLIDE BAR FOR HAND SHOWER MOUNTING, LEVER DIVERTER VALVE, SHOWER HEAD, HAND WAND, AND TUB SPOUT. ADJUST STOP SCREW FOR MAXIMUM 120F HOT WATER.
FD-1	FLOOR DRAIN WITH TRAP SEAL PROTECTION (REGULAR)	JAY R. SMITH #2005-ABBP-P FLOOR DRAIN. PROVIDE PRO-SET TRAP GUARD FOR SPECIFIC DRAIN INSTALLED.	3" WASTE 2" VENT	SEDIMENT BUCKET, POLISHED NICKEL BRONZE TOP, FLASHING CLAMP, TRAP PRIMER CONNECTION.
RVB-1	RECESSED WALL BOX (FOR REFRIGERATORS)	GUY GRAY MODEL NO. BIM875, 18 GAUGE STEEL BOX. 1/4" COMPRESSION OUTLET, QUARTER TURN VALVE.	1/2" CW	REFER ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
RVB-2	RECESSED WALL BOX (UNDER COUNTER)	GUY GRAY MODEL NO. SSWB1, 304 STAINLESS STEEL BOX. 1/4" COMPRESSION OUTLET, QUARTER TURN VALVE.	1/2" CW	REFER ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. WHEN INSTALLED WITHIN CASEWORK, PROVIDE RUBBER GROMMET THRU COUNTER AT EACH PIECE OF EQUIPMENT.
FS-1	FLOOR SINK W/ TRAP SEAL PROTECTION (MECHANICAL SPACES)	JAY R. SMITH #3430Y-12 DUCO CAST IRON ACID RESISTANT COATED, 12" SQUARE TOP, FLOOR SINK WITH 3/4 ARC CAST IRON GRATE, PRO-SET "TRAP GUARD" SIZED FOR FLOOR SINK.	3" WASTE 2" VENT	DOME BOTTOM STRAINER, ARC CI 3/4 TOP, FLASHING CLAMP.
MS-1	MOP SINK FLOOR MOUNT	STERN-WILLIAMS MODEL NO. SB-900-BP WITH STAINLESS STEEL CAP AND 3" CHROME DRAIN.	3/4" CW 3/4" HW 3" WASTE 2" VENT	24"x24"x12" FLOOR-MOUNT MOP SINK WITH STAINLESS STEEL CAP AND 3" CHROME DRAIN. FURNISH WITH CHICAGO FAUCET MODEL NO. 911-IS, MOUNTED 36" AFF TO FAUCET, VACUUM BREAKER AND INTEGRAL STOPS, MOUNT VACUUM BREAKER 7'-6" AFF.
MWB-1	RECESSED EQUIPMENT BOX	GUY GRAY MODEL #MWB 9	1/2" CW 1/2" HW 2" WASTE 2" VENT	RECESSED METAL POWDER COATED, 2" CENTER DRAIN, QUARTER TURN VALVES.

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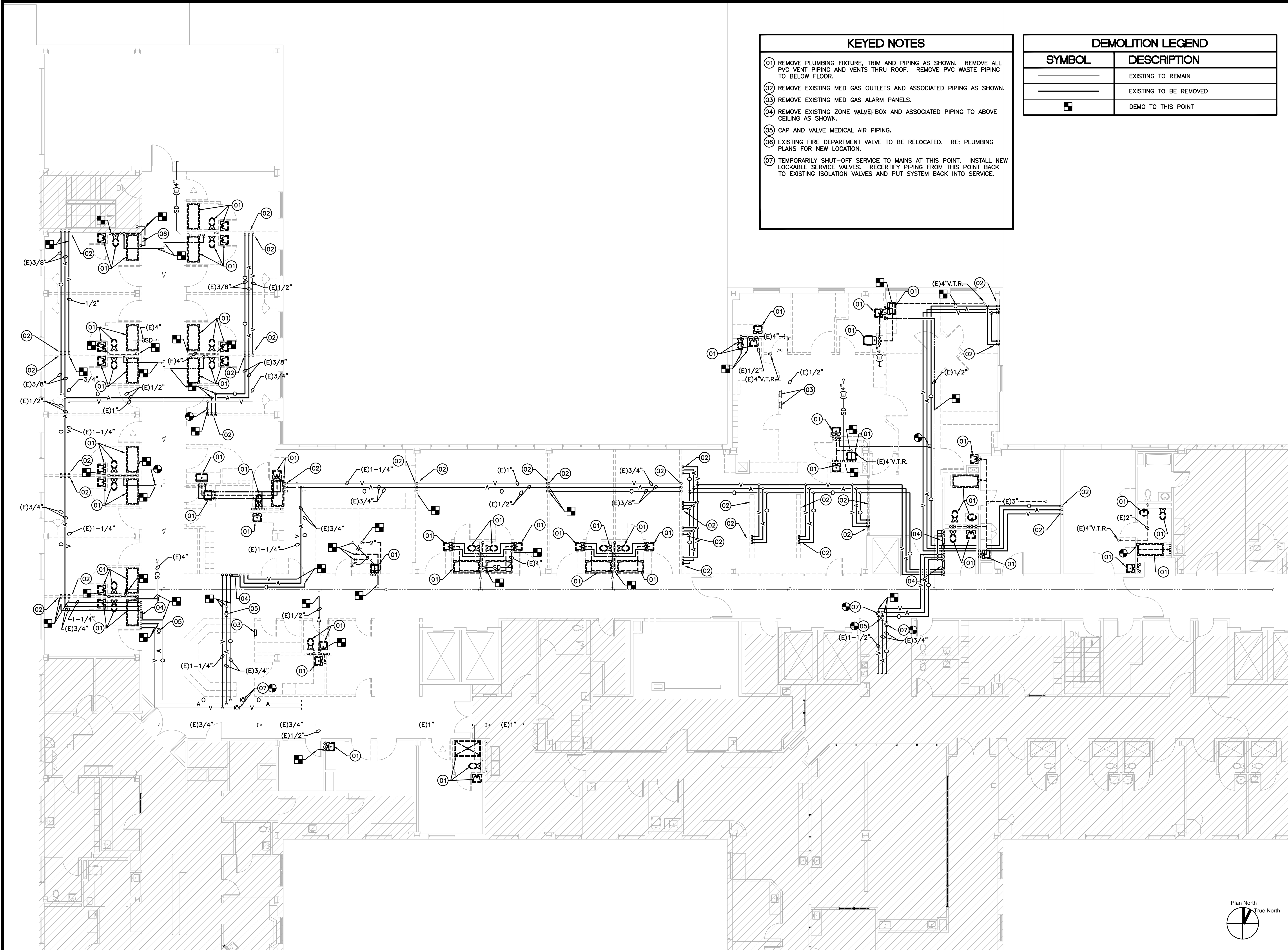
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KEYED NOTES

- 01 REMOVE PLUMBING FIXTURE, TRIM AND PIPING AS SHOWN. REMOVE ALL PVC VENT PIPING AND VENTS THRU ROOF. REMOVE PVC WASTE PIPING TO BELOW FLOOR.
- 02 REMOVE EXISTING MED GAS OUTLETS AND ASSOCIATED PIPING AS SHOWN.
- 03 REMOVE EXISTING MED GAS ALARM PANELS.
- 04 REMOVE EXISTING ZONE VALVE BOX AND ASSOCIATED PIPING TO ABOVE CEILING AS SHOWN.
- 05 CAP AND VALVE MEDICAL AIR PIPING.
- 06 EXISTING FIRE DEPARTMENT VALVE TO BE RELOCATED. RE: PLUMBING PLANS FOR NEW LOCATION.
- 07 TEMPORARILY SHUT-OFF SERVICE TO MAINS AT THIS POINT. INSTALL NEW LOCKABLE SERVICE VALVES. RECERTIFY PIPING FROM THIS POINT BACK TO EXISTING ISOLATION VALVES AND PUT SYSTEM BACK INTO SERVICE.

DEMOLITION LEGEND

SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	DEMO TO THIS POINT

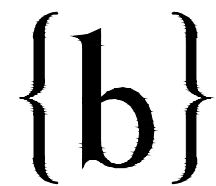
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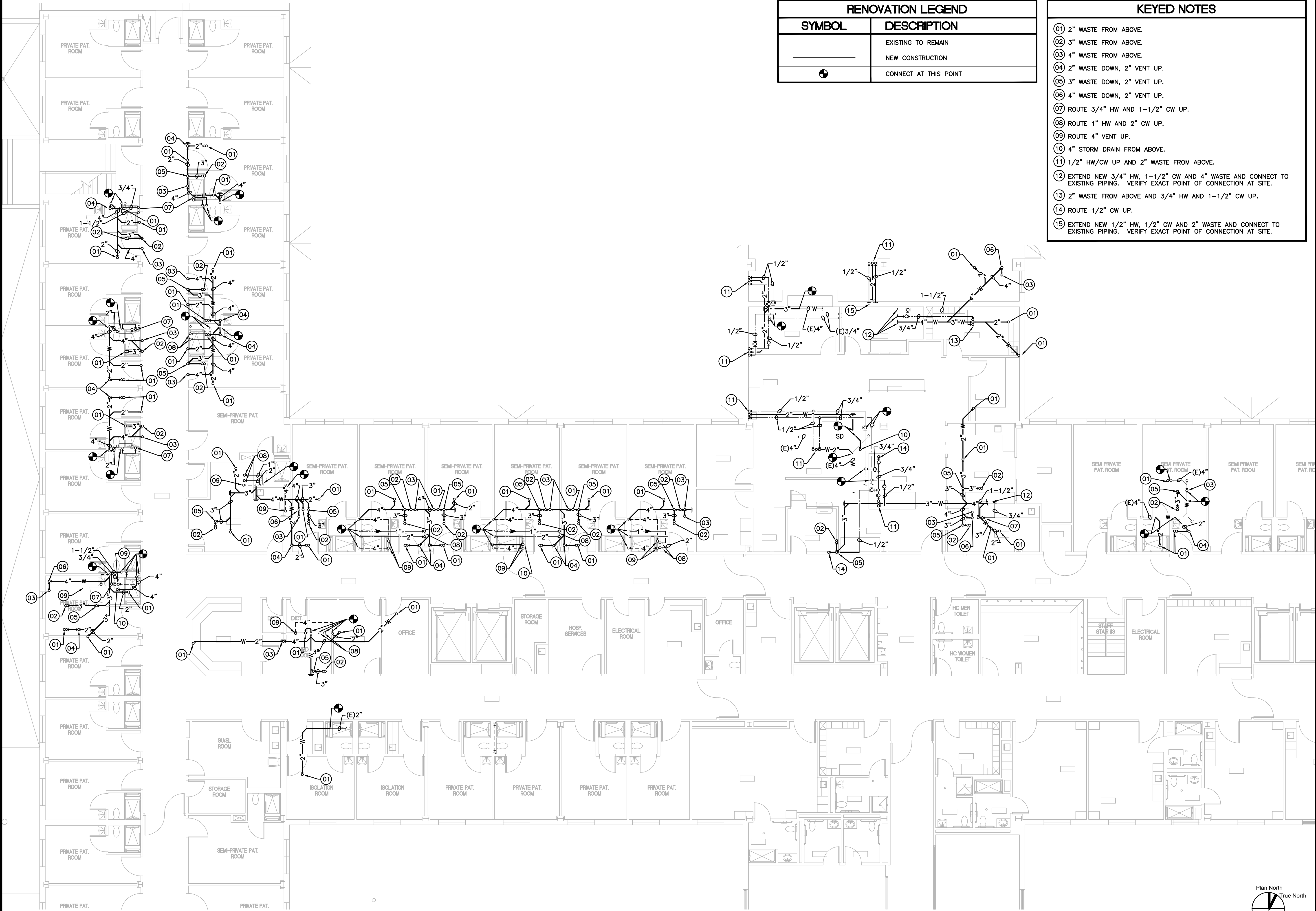
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DEMOLITION PLAN - PLUMBING

1/8" = 1'-0"

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RENOVATION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	CONNECT AT THIS POINT

KEYED NOTES	
01	2" WASTE FROM ABOVE.
02	3" WASTE FROM ABOVE.
03	4" WASTE FROM ABOVE.
04	2" WASTE DOWN, 2" VENT UP.
05	3" WASTE DOWN, 2" VENT UP.
06	4" WASTE DOWN, 2" VENT UP.
07	ROUTE 3/4" HW AND 1-1/2" CW UP.
08	ROUTE 1" HW AND 2" CW UP.
09	ROUTE 4" VENT UP.
10	4" STORM DRAIN FROM ABOVE.
11	1/2" HW/CW UP AND 2" WASTE FROM ABOVE.
12	EXTEND NEW 3/4" HW, 1-1/2" CW AND 4" WASTE AND CONNECT TO EXISTING PIPING. VERIFY EXACT POINT OF CONNECTION AT SITE.
13	2" WASTE FROM ABOVE AND 3/4" HW AND 1-1/2" CW UP.
14	ROUTE 1/2" CW UP.
15	EXTEND NEW 1/2" HW, 1/2" CW AND 2" WASTE AND CONNECT TO EXISTING PIPING. VERIFY EXACT POINT OF CONNECTION AT SITE.

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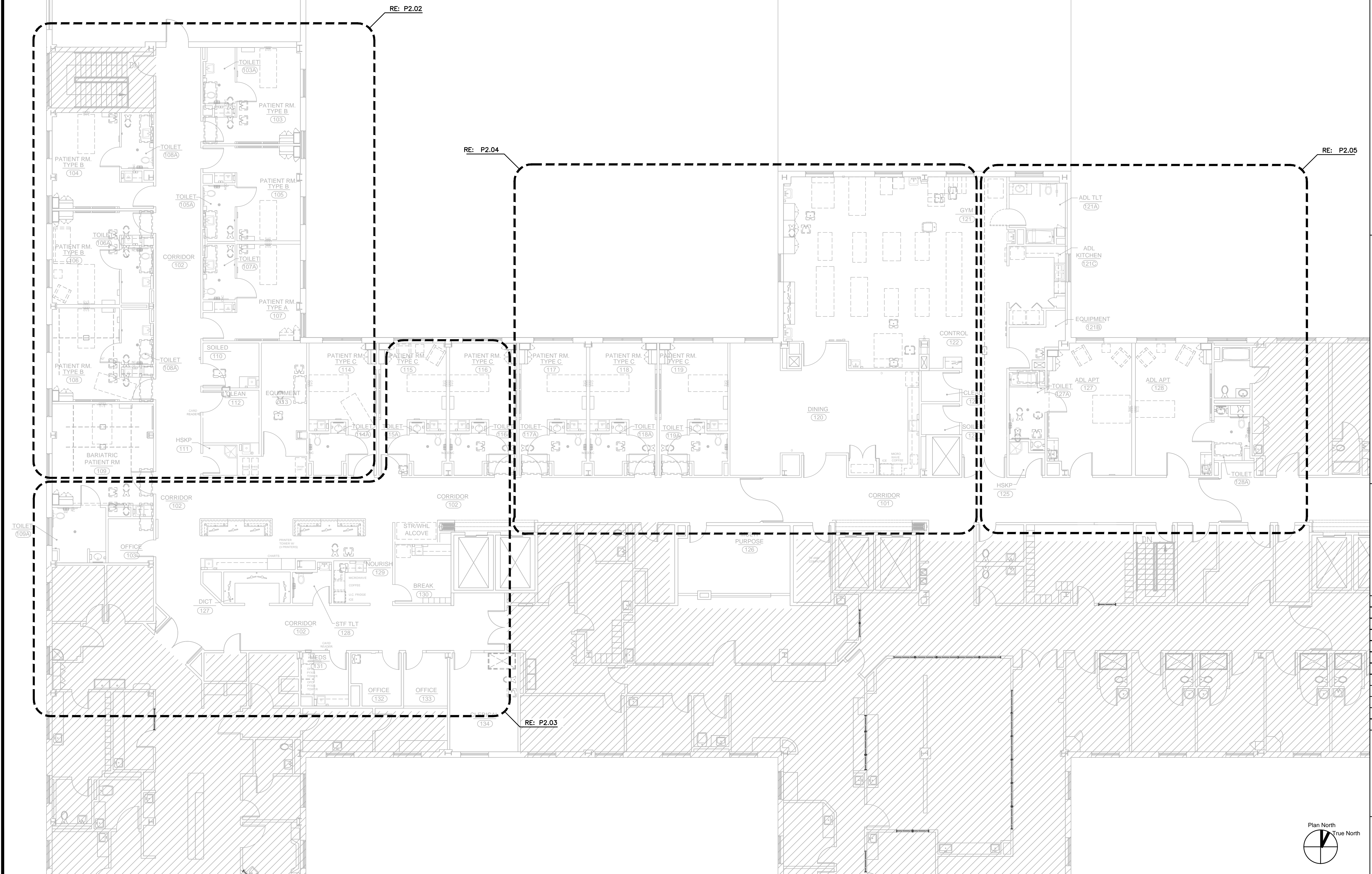
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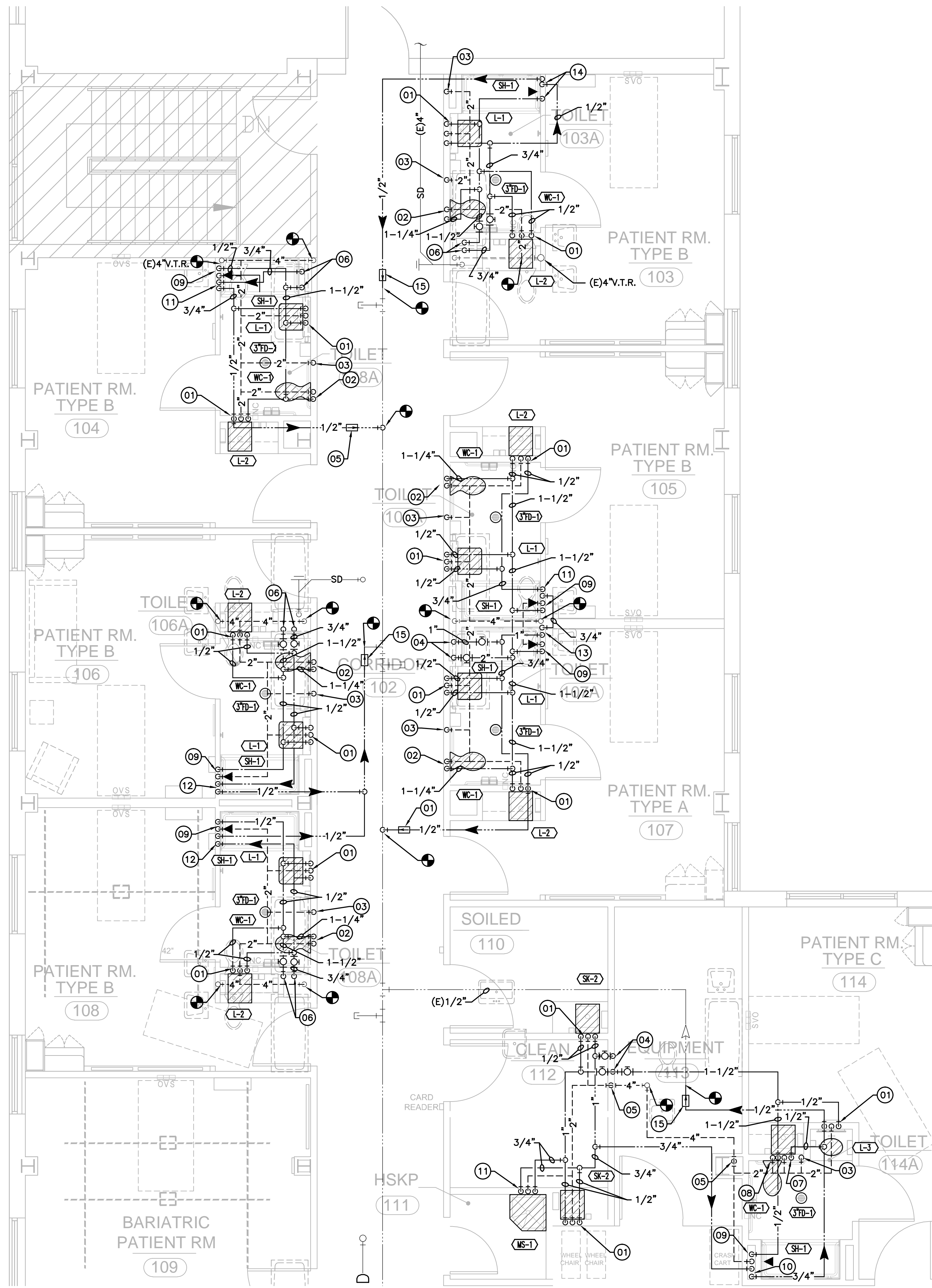
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RENOVATION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	CONNECT AT THIS POINT

KEYED NOTES	
01	ROUTE 1/2" HW/CW, 2" WASTE DOWN AND 2" VENT UP.
02	ROUTE 1-1/4" CW DOWN AND 2" VENT UP.
03	2" VENT UP.
04	1" HW AND 2" CW UP FROM BELOW.
05	4" VENT UP.
06	3/4" HW AND 1-1/2" CW UP FROM BELOW.
07	ROUTE 1/2" HW, 2" WASTE DOWN AND 2" VENT UP.
08	ROUTE 1-1/2" CW DOWN AND 2" VENT UP.
09	ROUTE 1/2" CW DOWN AND 2" VENT UP.
10	ROUTE 3/4" HW DOWN/UP IN WALL TO SERVE SHOWER VALVE.
11	ROUTE 3/4" HW/CW DOWN AND 2" VENT UP.
12	ROUTE 1/2" HW DOWN/UP IN WALL TO SERVE SHOWER VALVE.
13	ROUTE 1" HW DOWN, 3/4" HW UP IN WALL TO SERVE SHOWER VALVE.
14	ROUTE 1/2" CW DOWN AND LOOP 1/2" HW DOWN/UP IN WALL TO SERVE SHOWER VALVE.
15	PROVIDE CIRCUIT SOLVER MODEL #CSUA-1/2-110-CV1 ASSEMBLY OR EQUAL THERMOSTATIC RECIRCULATION VALVE.

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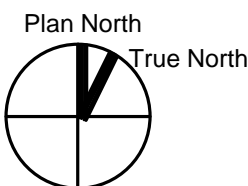
ENLARGED FLOOR
PLANS - PLUMBING

SHEET

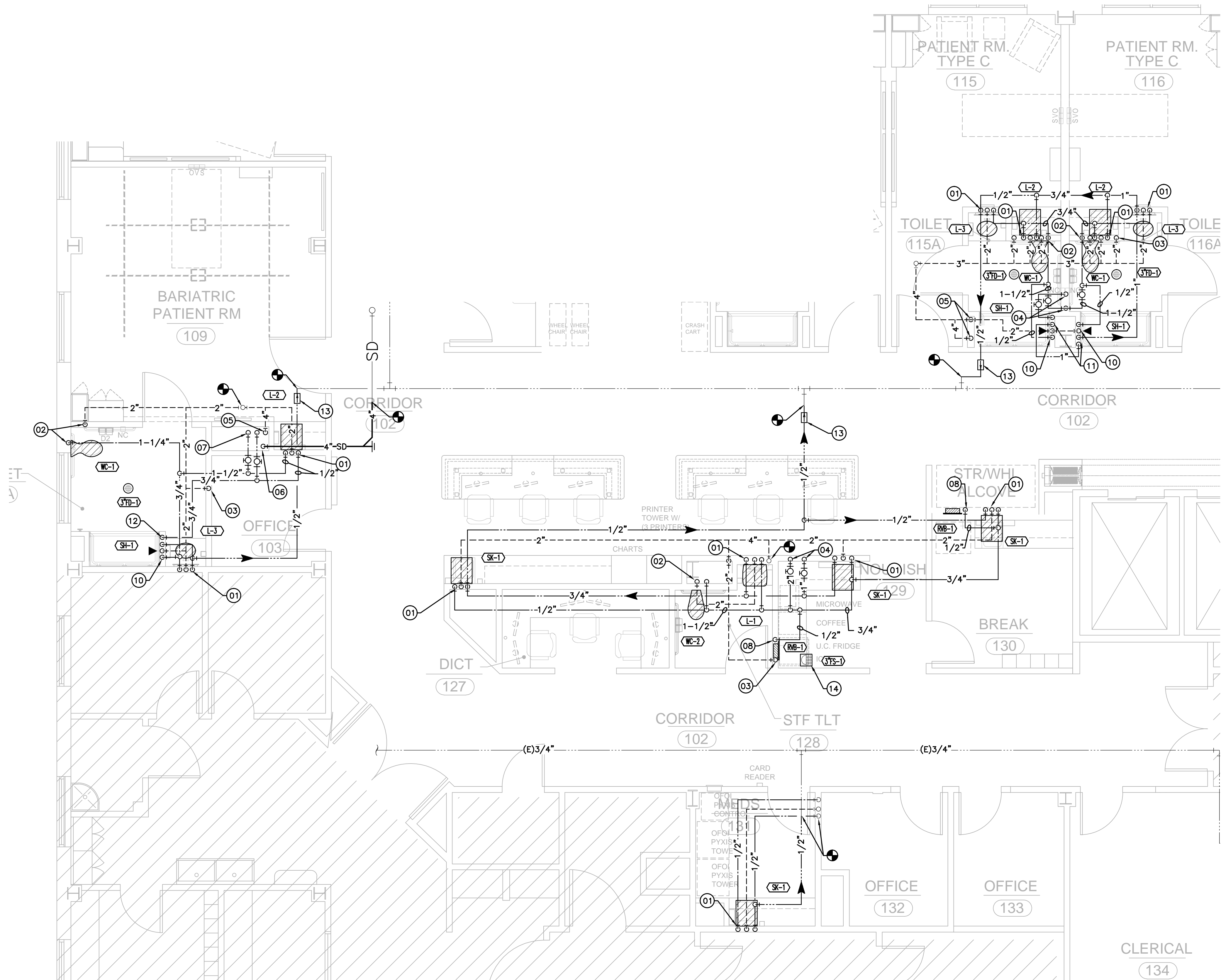
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RENOVATION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	CONNECT AT THIS POINT

KEYED NOTES	
01	ROUTE 1/2" HW/CW, 2" WASTE DOWN AND 2" VENT UP.
02	ROUTE 1-1/4" CW DOWN AND 2" VENT UP.
03	2" VENT UP.
04	1" HW AND 2" CW UP FROM BELOW.
05	4" VENT UP.
06	4" SD DOWN.
07	3/4" HW AND 1-1/2" CW UP FROM BELOW.
08	ROUTE 1/2" CW DOWN TO SERVE RECESSED VALVE BOX.
09	1/2" HW/CW UP FROM BELOW, 2" WASTE DOWN AND 2" VENT UP.
10	ROUTE 1/2" CW DOWN AND 2" VENT UP.
11	ROUTE 1" HW DOWN/UP IN WALL TO SERVE SHOWER VALVE.
12	ROUTE 3/4" HW DOWN/UP IN WALL TO SERVE SHOWER VALVE.
13	PROVIDE CIRCUIT SOLVER MODEL #CSUA-1/2-110-CV1 ASSEMBLY OR EQUAL THERMOSTATIC RECIRCULATION VALVE.
14	LOCATE CENTERLINE OF FLOOR SINK WITH EDGE OF MILLWORK.

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ENLARGED FLOOR
PLANS - PLUMBING

SHEET

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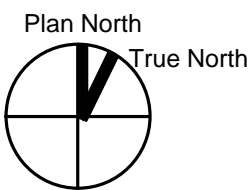
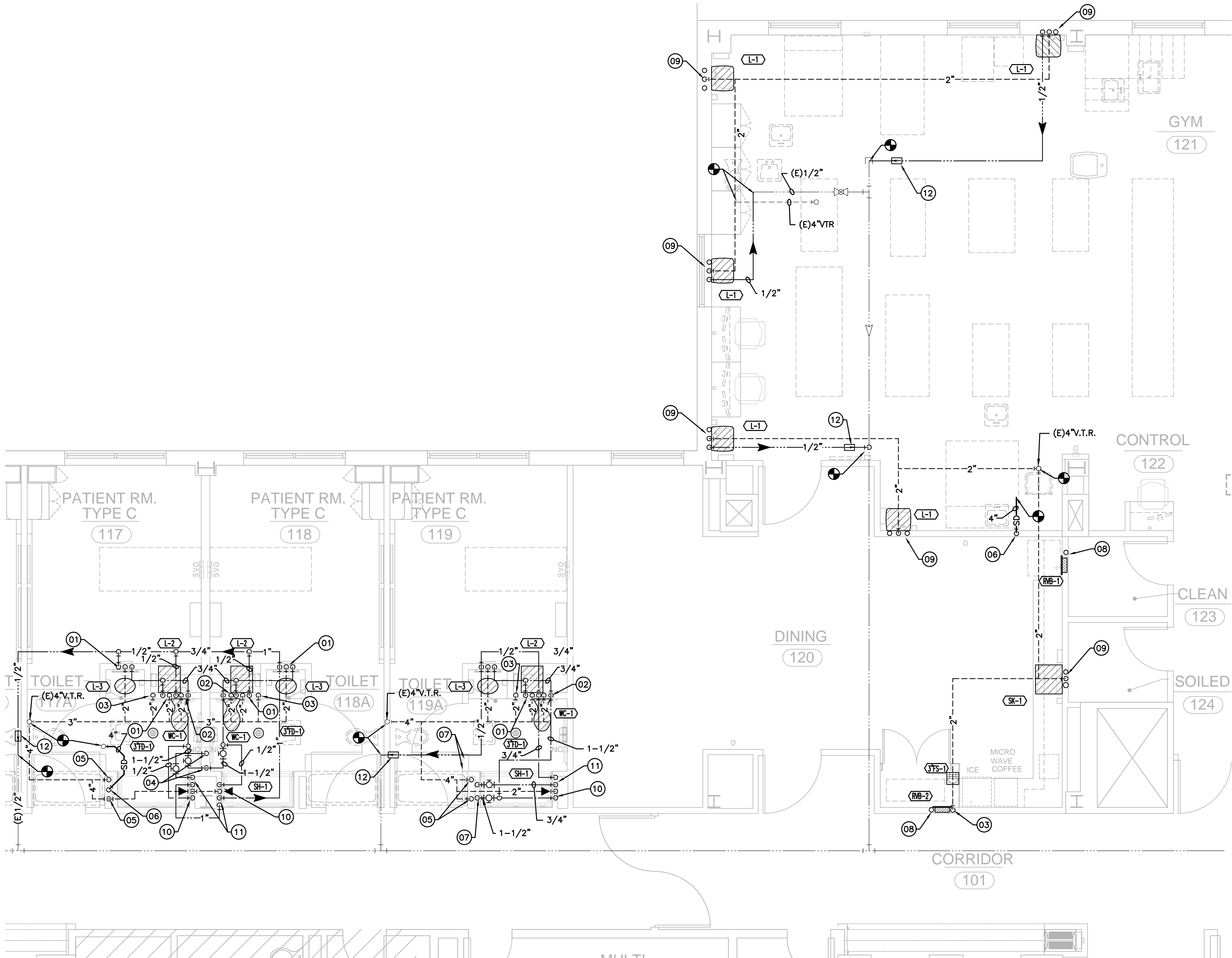
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ENLARGED FLOOR PLANS - PLUMBING

1/4" = 1'-0"

1

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RENOVATION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	CONNECT AT THIS POINT

KEYED NOTES	
01	ROUTE 1/2" HW/CW, 2" WASTE DOWN AND 2" VENT UP.
02	ROUTE 1-1/4" CW DOWN AND 2" VENT UP.
03	2" VENT UP.
04	1" HW AND 2" CW UP FROM BELOW.
05	4" VENT UP.
06	4" SD DOWN.
07	3/4" HW AND 1-1/2" CW UP FROM BELOW.
08	1/2" CW UP FROM BELOW.
09	1/2" HW/CW UP FROM BELOW, 2" WASTE DOWN AND 2" VENT UP.
10	ROUTE 1/2" CW DOWN AND 2" VENT UP.
11	ROUTE 3/4" HW DOWN/UP IN WALL TO SERVE SHOWER VALVE.
12	PROVIDE CIRCUIT SOLVER MODEL #CSUA-1/2-110-CV1 ASSEMBLY OR EQUAL THERMOSTATIC RECIRCULATION VALVE.

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ENLARGED FLOOR
PLANS - PLUMBING

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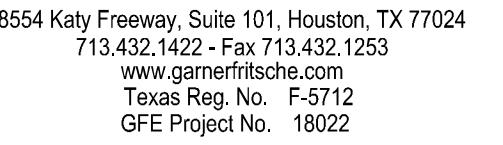
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ENLARGED FLOOR PLANS - PLUMBING

1/4" = 1'-0"

1

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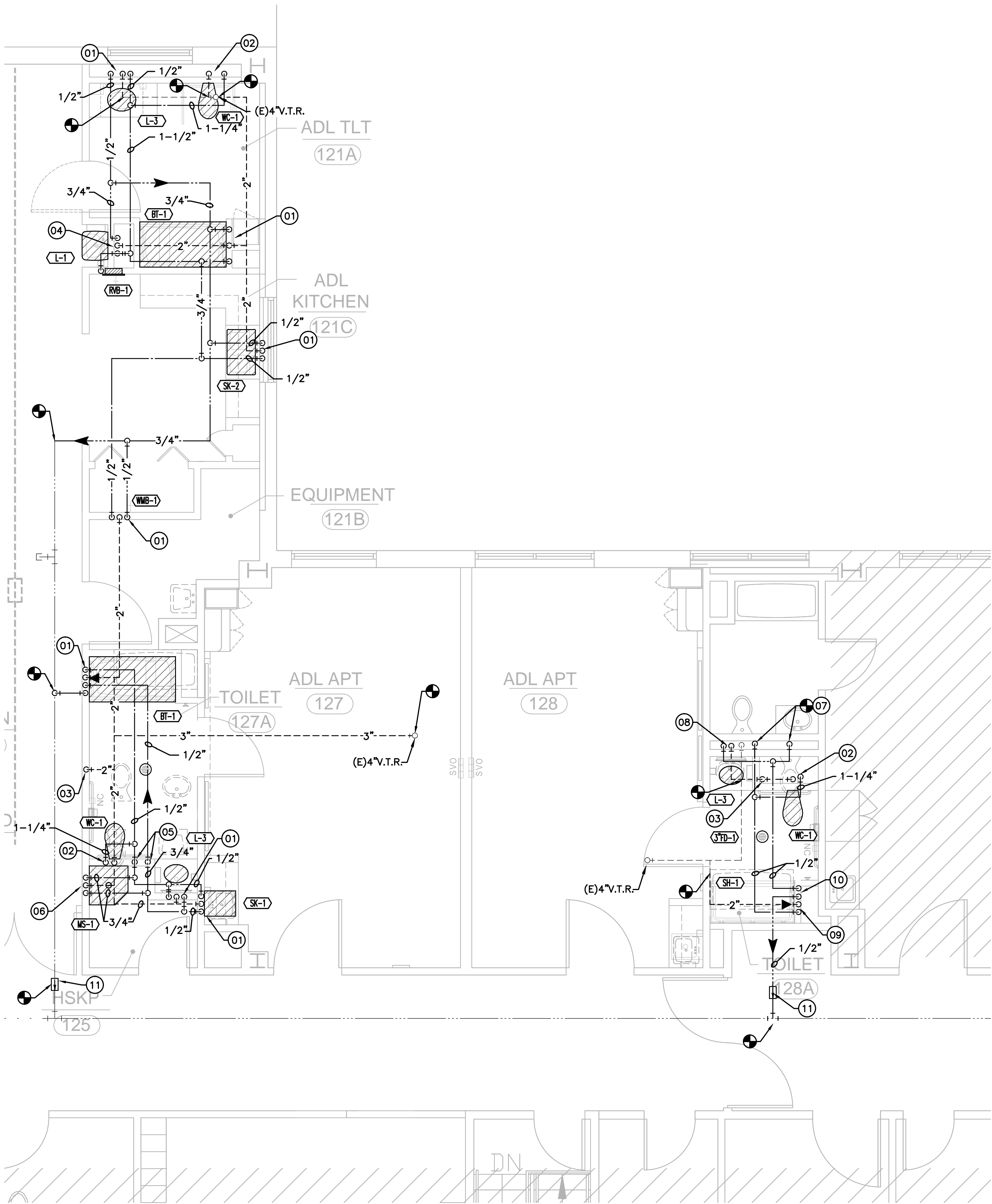
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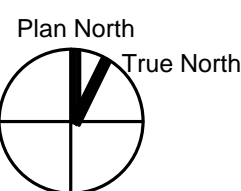
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RENOVATION LEGEND	
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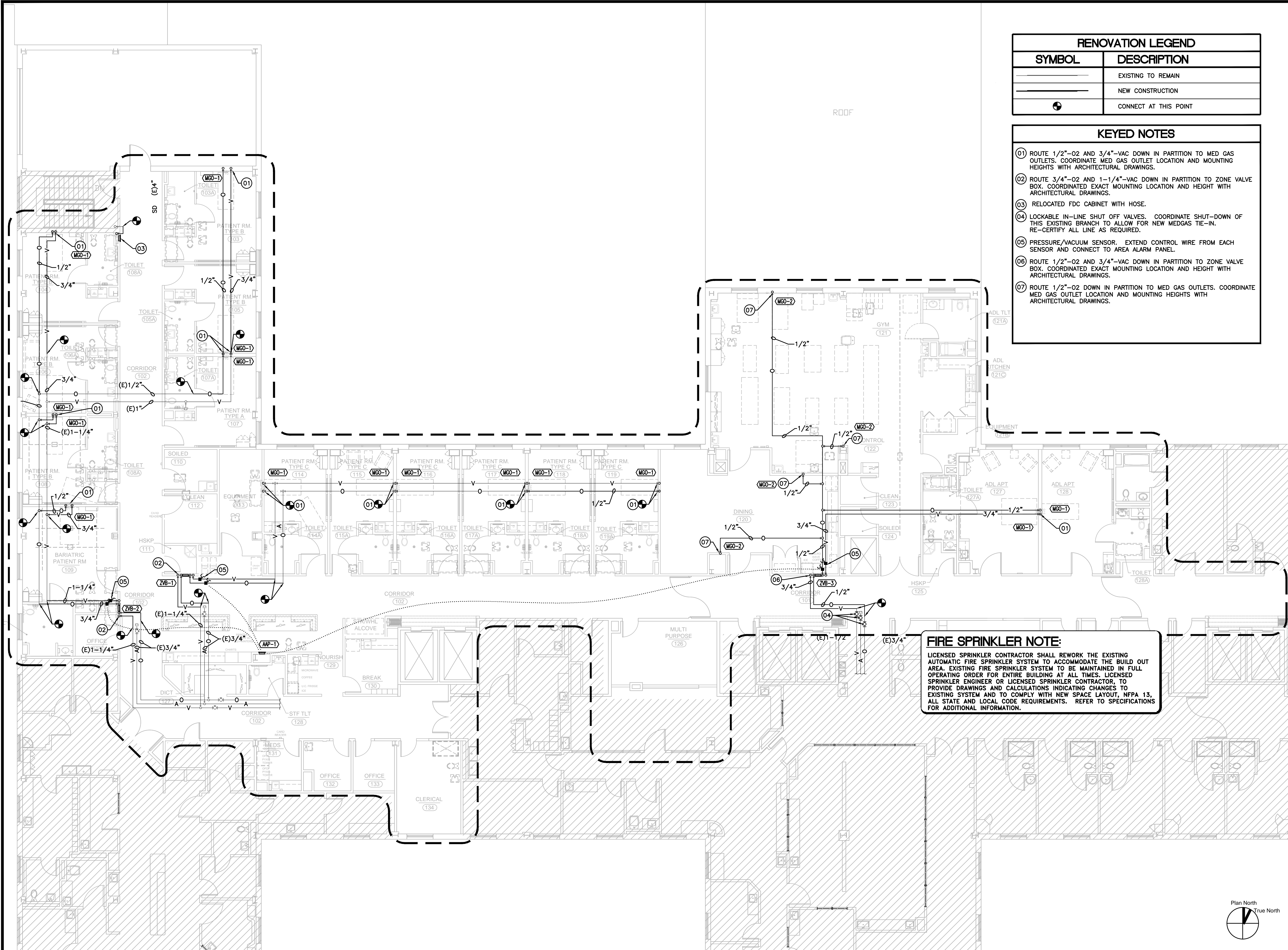
KEYED NOTES

- 01) ROUTE 1/2" HW/CW, 2" WASTE DOWN AND 2" VENT UP.
- 02) ROUTE 1-1/4" CW DOWN AND 2" VENT UP.
- 03) 2" VENT UP.
- 04) 3/4" HW, 1-1/2" CW UP FROM BELOW, 2" WASTE DOWN AND 2" VENT UP.
- 05) 3/4" HW AND 1-1/2" CW UP FROM BELOW.
- 06) ROUTE 3/4" HW/CW DOWN AND 2" VENT UP.
- 07) CONNECT NEW HW/CW TO EXISTING PIPING WITHIN CHASE.
- 08) ROUTE 1/2" HW, 2" WASTE DOWN AND 2" VENT UP. CONNECT NEW 1/2" CW TO EXISTING CW PIPING IN CHASE.
- 09) ROUTE 1/2" CW DOWN AND 2" VENT UP.
- 10) ROUTE 1/2" HW DOWN/UP IN WALL TO SERVE SHOWER VALVE.
- 11) PROVIDE CIRCUIT SOLVER MODEL #CSUA-1/2-110-CV1 ASSEMBLY OR EQUAL THERMOSTATIC RECIRCULATION VALVE.


$$1/4'' = 1'-0''$$

1

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RENOVATION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	CONNECT AT THIS POINT

KEYED NOTES	
01	ROUTE 1/2"-02 AND 3/4"-VAC DOWN IN PARTITION TO MED GAS OUTLETS. COORDINATE MED GAS OUTLET LOCATION AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS.
02	ROUTE 3/4"-02 AND 1-1/4"-VAC DOWN IN PARTITION TO ZONE VALVE BOX. COORDINATED EXACT MOUNTING LOCATION AND HEIGHT WITH ARCHITECTURAL DRAWINGS.
03	RELOCATED FDC CABINET WITH HOSE.
04	LOCKABLE IN-LINE SHUT OFF VALVES. COORDINATE SHUT-DOWN OF THIS EXISTING BRANCH TO ALLOW FOR NEW MEDGAS TIE-IN. RE-CERTIFY ALL LINE AS REQUIRED.
05	PRESSURE/VACUUM SENSOR. EXTEND CONTROL WIRE FROM EACH SENSOR AND CONNECT TO AREA ALARM PANEL.
06	ROUTE 1/2"-02 AND 3/4"-VAC DOWN IN PARTITION TO ZONE VALVE BOX. COORDINATED EXACT MOUNTING LOCATION AND HEIGHT WITH ARCHITECTURAL DRAWINGS.
07	ROUTE 1/2"-02 DOWN IN PARTITION TO MED GAS OUTLETS. COORDINATE MED GAS OUTLET LOCATION AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS.

FIRE SPRINKLER NOTE:
LICENSED SPRINKLER CONTRACTOR SHALL REWORK THE EXISTING AUTOMATIC FIRE SPRINKLER SYSTEM TO ACCOMMODATE THE BUILD OUT AREA. EXISTING FIRE SPRINKLER SYSTEM TO BE MAINTAINED IN FULL OPERATING ORDER FOR ENTIRE BUILDING AT ALL TIMES. LICENSED SPRINKLER ENGINEER OR LICENSED SPRINKLER CONTRACTOR, TO PROVIDE DRAWINGS AND CALCULATIONS INDICATING CHANGES TO EXISTING SYSTEM AND TO COMPLY WITH NEW SPACE LAYOUT, NFPA 13, ALL STATE AND LOCAL CODE REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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FLOOR PLAN - MED GAS AND FIRE PROTECTION

1/8" = 1'-0"



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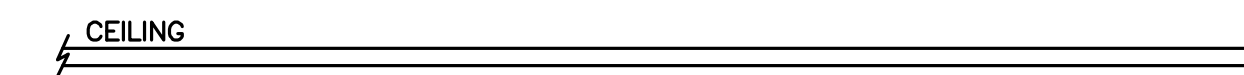
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DETAIL - BRANCH TAKE-OFF



- 1) ALL UNISTRUT AND HARDWARE SHALL BE GALVANIZED.
- 2) SPACING OF HANGERS PER SPECIFICATIONS. HANGER SPACING SHALL BE BASED ON THE LARGEST DIAMETER PIPE SUPPORTED BY THE RACK.

MULTI-PIPE HANGER



WALL CLEAN-OUT



MEDICAL GASES RISER



DETAIL - BRANCH TAKE-OFF



- 1) THIS DETAIL APPLIES TO UNINSULATED COPPER PIPING. REFER TO SPECIFICATIONS FOR INSULATION REQUIREMENTS.
- 2) ALL UNISTRUT AND HARDWARE SHALL BE GALVANIZED.
- 3) SPACING OF HANGERS PER SPECIFICATIONS. HANGER SPACING SHALL BE BASED ON THE SMALLEST DIAMETER PIPE SUPPORTED BY THE RACK.

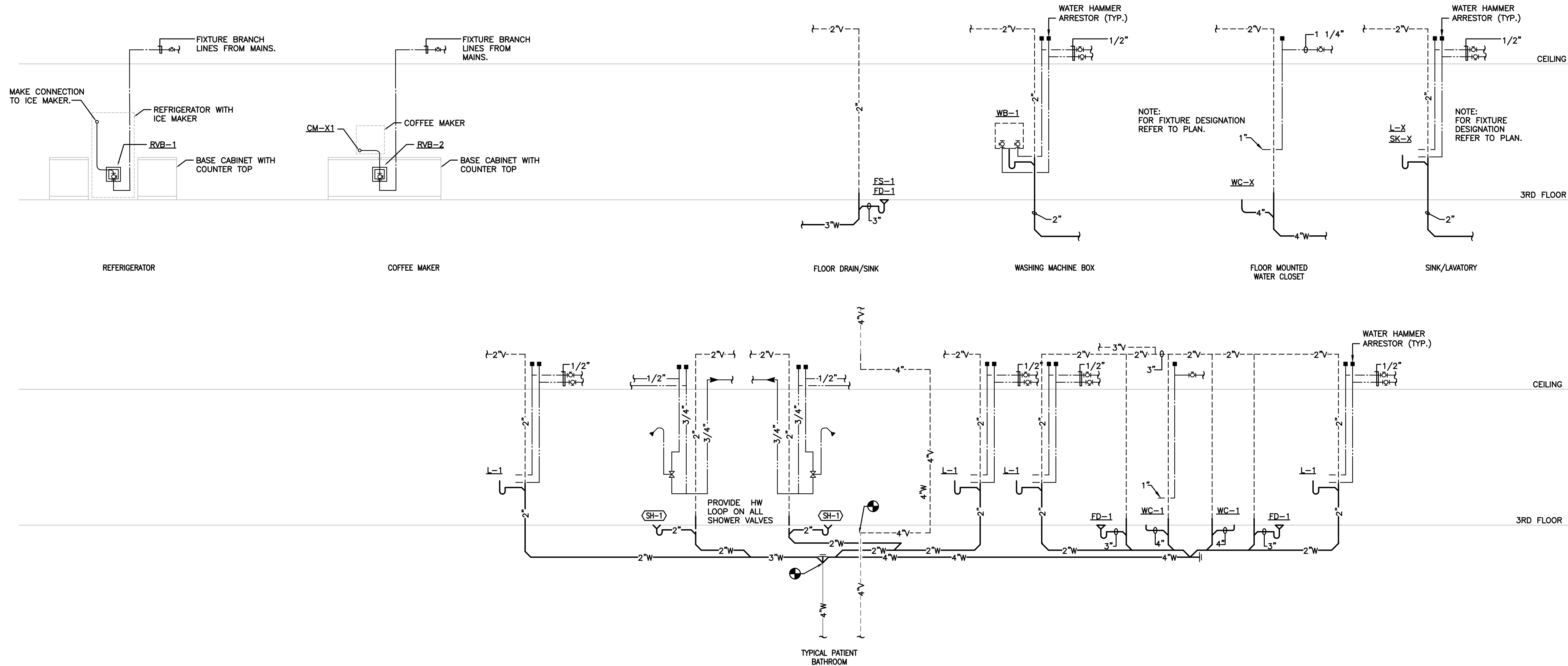
UNINSULATED COPPER MULTI-PIPE HANGER



MEDICAL GAS LABEL BACKGROUND AND LETTER COLOR LEGEND		
GAS	BACKGROUND COLOR	LETTER COLOR
MEDICAL AIR	YELLOW	BLACK
MEDICAL VACUUM	WHITE	BLACK
NITROGEN	BLACK	WHITE
NITROUS OXIDE	BLUE	WHITE
OXYGEN	GREEN	WHITE

MED GAS PIPE LABELING

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1 PLUMBING RISER DIAGRAMS
NOT TO SCALE

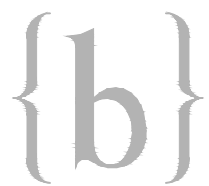
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RISERS -
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