

## SEISMIC ANCHORAGE AND BRACING NOTES

### A. GENERAL

1. DUCTS, PIPES, AND CONDUITS SHALL BE BRACED IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE (IBC), OCCUPANCY CATEGORY II, III, OR IV. REFER TO STRUCTURAL DRAWINGS FOR SITE CLASS, SHORT AND LONG PERIOD ACCELERATION PARAMETERS AND SEISMIC DESIGN CATEGORY. COMPONENT IMPORTANCE FACTOR SHALL BE 1.5 FOR ALL SYSTEMS. BRACING CALCULATIONS AND SYSTEM DESIGN TO BE COMPLETED BY A REGISTERED ENGINEER WITHIN THE STATE. REFER TO SPECIFICATION SECTIONS 210547 FOR ADDITIONAL REQUIREMENTS.

2. UNLESS OTHERWISE PERMITTED BY THE CODE OR APPLICABLE BRACING STANDARDS, IN-LINE EQUIPMENT SHALL BE BRACED INDEPENDENTLY OF THE DUCTS OR PIPES AND IN CONFORMANCE WITH APPLICABLE BUILDING CODES.

3. PIPE AND CONDUIT HANGERS SHALL BE POSITIVELY ATTACHED TO THE SUPPORTING STRUCTURE ABOVE. THE USE OF C-CLAMPS OR OTHER FRICTION-TYPE ANCHORS TO HANG PIPE, DUCT, AND CONDUIT IS PROHIBITED. FRICTION-TYPE ANCHORS SUCH AS C-CLAMPS WITH PROPERLY ATTACHED RETAINING STRAPS MAY BE USED IF APPROVED BY THE STRUCTURAL ENGINEER-OF-RECORD.

4. REFER TO THE STRUCTURAL DRAWINGS FOR ACCEPTABLE EXPANSION ANCHOR TYPES AND TEST LOADS WHERE REQUIRED.

5. APPROPRIATE EXPANSION/CONTRACTION CAPABILITY SHALL BE PROVIDED IN CONDUITS, PIPES, ETC. WHICH CROSS BUILDING EXPANSION DIRECTION ON EACH SIDE OF THE JOINT CENTERLINE. AS A MINIMUM, THE TOTAL RELATIVE MOVEMENT IN ANY HORIZONTAL DIRECTIONS SHALL BE EQUAL TO THE SIZE OF THE BUILDING EXPANSION JOINT. FOR EXAMPLE, AT A 3-INCH BUILDING EXPANSION JOINT, A PIPE, DUCT, OR CONDUIT SHALL BE PERMITTED TO MOVE A MINIMUM OF THREE INCHES (1 1/2 INCHES IN EACH OF 2 OPPOSITE HORIZONTAL DIRECTIONS) ON EACH SIDE OF THE JOINT CENTERLINE.

### B. REQUIREMENTS FOR BRACING OF PIPES

1. PROVIDE BRACING DETAILS, SCHEDULES, AND NOTES FOR ALL TYPES OF PIPE, CONDUIT AND JOINTS.

2. EXCEPT FOR PIPING DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH NFPA 13, SEISMIC SUPPORT SHALL NOT BE REQUIRED FOR PIPING SYSTEMS WHERE ONE OF THE FOLLOWING CONDITIONS ARE MET:

A) PIPING IS SUPPORTED BY ROD HANGERS; HANGERS IN THE PIPE RUN ARE 12 IN OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE; HANGERS ARE DETAILED TO AVOID BENDING OF THE HANGERS AND THEIR ATTACHMENTS; AND PROVISIONS ARE MADE FOR PIPING TO ACCOMMODATE EXPECTED DEFLECTIONS. HIGH-DEFORMABILITY PIPING IS USED; PROVISIONS ARE MADE TO AVOID IMPACT WITH LARGER PIPING OR MECHANICAL COMPONENTS OR TO PROTECT A) THE PIPING IN THE EVENT OF SUCH IMPACT; AND THE FOLLOWING SIZE REQUIREMENTS ARE SATISFIED:

(1) FOR SEISMIC DESIGN CATEGORIES D, E, OR F, THE NOMINAL PIPE SIZE SHALL BE 1 IN. OR LESS.  
(2) FOR SEISMIC DESIGN CATEGORY C, THE NOMINAL PIPE SIZE SHALL BE 2 IN OR LESS.

3. TRANSVERSE BRACING SHALL BE AT 40 FEET MAXIMUM, EXCEPT WHERE A LESSER SPACING IS INDICATED IN THE TABLES FOR BRACING OF PIPES.

4. LONGITUDINAL BRACING SHALL BE AT 80 FEET MAXIMUM, EXCEPT WHERE A LESSER SPACING IS INDICATED IN THE TABLES. IN PIPES WHERE THERMAL EXPANSION IS A CONSIDERATION, AN ANCHOR POINT MAY BE USED AS THE SPECIFIED LONGITUDINAL BRACE PROVIDED IT HAS A CAPACITY EQUAL TO OR GREATER THAN A LONGITUDINAL BRACE. THE LONGITUDINAL BRACES AND CONNECTIONS MUST BE CAPABLE OF RESISTING THE ADDITIONAL FORCE INDUCED BY EXPANSION AND CONTRACTION.

5. BRACE FUEL-OIL, MEDICAL GAS, AND NATURAL GAS PIPING, AS REQUIRED FOR FLAMMABLE PIPING.

6. PROVIDE FLEXIBILITY IN JOINTS WHERE PIPES PASS THROUGH BUILDING SEISMIC JOINTS OR EXPANSION JOINTS OR WHERE RIGIDLY SUPPORTED PIPES CONNECT TO EQUIPMENT WITH VIBRATION ISOLATORS.

7. BRANCH LINES MAY NOT BE USED TO BRACE MAIN LINES.

8. A RIGID PIPING SYSTEM SHALL NOT BE BRACED TO DISSIMILAR PARTS OF THE BUILDING OR TO TWO DISSIMILAR BUILDING SYSTEMS THAT MAY RESPOND DIFFERENTLY DURING AN EARTHQUAKE.

9. CAST-IRON PIPE OF ALL TYPES, GLASS PIPE, AND ANY OTHER PIPE JOINED WITH A SHIELD AND CLAMP ASSEMBLY, WHERE THE TOP OF THE PIPE IS 12 INCHES OR MORE FROM THE SUPPORTING STRUCTURE, SHALL BE BRACED ON EACH SIDE OF A CHANGE IN A DIRECTION OF 90 DEGREES OR MORE. RISER JOINTS SHALL BE BRACED OR STABILIZED BETWEEN FLOORS.

10. VERTICAL RISERS SHALL BE Laterally SUPPORTED WITH A RISER CLAMP AT EACH FLOOR. FOR BUILDINGS GREATER THAN SIX STORIES HIGH, RISERS SHALL BE ENGINEERED INDIVIDUALLY.

### C. EQUIPMENT

1. FLOOR- OR PAD-MOUNTED EQUIPMENT WITHOUT VIBRATION ISOLATORS SHALL BE BOLTED TO THE FLOOR (SLAB) WITH 3/8-INCH DIAMETER EXPANSION BOLTS (SEE STRUCTURAL DRAWINGS FOR ACCEPTABLE BOLT TYPE AND REQUIRED EMBEDMENT) UNLESS NOTED OR SHOWN OTHERWISE ON THE MPE DRAWINGS. PROVIDE EXPANSION ANCHORS AT THE FOUR CORNERS AND AT 4'-0" CENTER-TO-CENTER MAXIMUM ALONG EACH SIDE UNLESS NOTED OTHERWISE.

2. VIBRATION ISOLATORS, SNUBBERS, ISOLATION RAILS, ETC. AND THE ANCHORAGE OF THESE ASSEMBLIES FOR FLOOR- OR ROOF-MOUNTED OR SUSPENDED EQUIPMENT SHALL BE DESIGNED FOR THE APPROPRIATE SEISMIC FORCES (FP) AS FOUND IN THE CHAPTER 13 OF ASCE 7-05 AND AS REQUIRED BY THE IBC. THE DESIGN SEISMIC FORCES SHALL BE DETERMINED CONSIDERING THE AMPLIFICATION EFFECTS OF NON-RIGID OR FLEXIBLE SUPPORTS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND SUBMITTAL REQUIREMENTS.

3. CONTRACTOR SHALL SUBMIT A LETTER FROM EACH EQUIPMENT MANUFACTURER STATING THAT ACTIVE MECHANICAL AND ELECTRICAL EQUIPMENT THAT MUST REMAIN OPERABLE FOLLOWING THE DESIGN LEVEL EARTHQUAKE FOR THE PROJECT SITE SHALL BE CERTIFIED AS OPERABLE BASED ON SHAKE TABLE TESTING AS SPECIFIED IN SECTION 13.2.5 OF ASCE 7-05, OR EXPERIENCE AND HISTORICAL DATA AS OUTLINED IN SECTION 13.2.6 OF ASCE 7-05 WHILE MEETING THE SCHEDULED AND DETAILED REQUIREMENTS OF THE PROJECT.

## SEISMIC ZONE

THIS PROJECT IS LOCATED IN A SEISMIC DESIGN CATEGORY CLASS "C". ALL EQUIPMENT AND PIPING SHALL BE BRACED PER THE LATEST REQUIREMENTS OF SMACNA. REFER TO SPECIFICATIONS 220547.

## GENERAL NOTES

1. THE DRAWINGS MAY NOT SHOW ALL EXISTING ITEMS OR CONDITIONS. CONTRACTOR SHALL NOT RECEIVE EXTRA PAYMENT FOR REQUIREMENTS WHICH CAN BE INFERRED THROUGH OBSERVATION OF EXISTING CONDITIONS AT THE SITE. IN THE EVENT CONCEALED CONDITIONS ARE ENCOUNTERED WHICH MAY VARY SIGNIFICANTLY FROM THOSE INDICATED ON THE DRAWINGS, NOTIFY THE ARCHITECT BEFORE PROCEEDING WITH WORK.

2. THE CONTRACTOR IS REQUIRED TO VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS AND FIELD VERIFY ALL POINTS OF CONNECTING TO BACK FEED EXISTING PRIOR TO SUBMITTING A BID.

3. CONTRACTOR SHALL PAY ALL FEES AND CHARGES REQUIRED TO ACHIEVE THE INSTALLATION.

4. CONTRACTOR SHALL FIELD VERIFY BY MEASUREMENT THE EXACT LOCATION OF EXISTING EQUIPMENT, PIPING, STRUCTURE AND OTHER CONDITIONS WHICH WILL AFFECT INSTALLATION. CONTRACTOR SHALL LOCATE NEW EQUIPMENT AND ROUTE NEW PIPING TO AVOID CONFLICTS AND INTERFERENCES WITH EXISTING FIELD CONDITIONS. FINAL COORDINATION WITH OTHER TRADES IS THE RESPONSIBILITY OF THE CONTRACTOR.

5. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. DRAWINGS SHALL NOT BE SCALED.

6. PROVIDE SHUT OFF VALVES AT ALL CONNECTIONS BETWEEN NEW AND EXISTING ON WATER AND GAS LINES.

7. COORDINATE WITH GENERAL CONTRACTOR THE PATCHING OF FLOORS TO ACCOMMODATE NEW PIPING TO MATCH EXISTING.

8. COORDINATE WITH GENERAL CONTRACTOR THE PATCHING OF ROOF WHERE ROOF DRAINS AND VENTS THRU ROOF ARE REMOVED.

9. WHERE CHASES ARE REMOVED, OFFSET ALL EXISTING LINES TO NEW CHASES OR WALLS AND RECONNECT ABOVE CEILING AND BELOW FLOOR AS REQUIRED.

10. ALL EXISTING SYSTEMS TO REMAIN IN SERVICE SHALL BE BACKFED AND RESTORED TO FULL OPERATION.

11. EXISTING FIXTURES TO REMAIN WITHIN THE RENOVATION AREAS SHALL BE CLEANED AFTER CONSTRUCTION.

12. PROVIDE TRAP PRIMER CONNECTION AND TRAP PRIMER TO SERVE ALL FLOOR DRAINS.

13. FIRESTOP ALL PENETRATIONS THROUGH RATED WALL AND FLOORS.

14. INSTALL CLEANOUTS AT BASE OF ALL SANITARY AND STORM STACKS, AT ALL CHANGE IN DIRECTIONS GREATER THAN 45° AND IN STRAIGHT RUNS AT LEAST EVERY 80 FT.

15. EXTEND DRAIN PIPING FROM REDUCED PRESSURE BACKFLOW PREVENTER TO FLOOR DRAIN THE RPB SERVES.

16. ALL EXPOSED WATER PIPING IN FINISHED SPACES TO BE CHROME PLATED.

17. ALL PLUMBING FIXTURES TO BE SEALED AT FLOOR OR WALL USING SANITARY SEALANT APPROVED FOR THE PURPOSE.

18. ALL PLUMBING, MEDICAL GAS AND FIRE PROTECTION EQUIPMENT TO BE INSTALLED ON 6" CONCRETE HOUSEKEEPING PAD.

19. CONTRACTOR SHALL OFFER ALL REMOVED PLUMBING FIXTURES TO OWNER. CONTRACTOR SHALL DISPOSE OF ALL FIXTURES NOT ACCEPTED BY OWNER OFFSITE.

20. REMOVE ALL PLUMBING FIXTURES SHOWN IN HATCHED AREAS. CAP WASTE PIPING BELOW FLOOR AND REMOVED ALL WATER PIPING SERVING PLUMBING FIXTURE BEING REMOVED. WASTE PIPING WHICH IS TO BE REUSED SHALL BE CLEANED AND RODDED. PATCH FLOOR TO MATCH EXISTING.

21. COORDINATE WITH GENERAL CONTRACTOR FOR PATCHING OF WALL PENETRATION WHERE WALL MOUNTED ITEMS ARE REMOVED.

22. PRIOR TO STARTING WORK, CONTRACTOR SHALL OBTAIN FLOW (GPM) AND PRESSURE MEASUREMENT OF THE EXISTING HOT WATER CIRCULATION PUMP AND FLOW (GPM) READING FROM EXISTING BALANCING VALVES. ONCE WORK IS COMPLETE, NEW FLOW (GPM) AND PRESSURE READINGS ARE TO BE OBTAINED AND BALANCE VALVES SHALL BE ADJUSTED ACCORDINGLY TO ENSURE HOT WATER WAIT TIMES OF LESS THAN 30 SECONDS. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO DESIGNER AND FACILITY.

23. CONTRACTOR TO X-RAY EXISTING UNDERGROUND SLAB CONDITIONS IN THE CENTRAL STERILE AREA AND PROVIDE SHOP DRAWINGS TO FACILITY AND DESIGNER PRIOR TO STARTING CONSTRUCTION.

24. IN CENTRAL STERILE WHERE WASTE IS ABOVE 140F IS FREQUENTLY DISCHARGED INTO THE SANITARY SYSTEM, USE CAST IRON PIPE FOR UNDERGROUND SANITARY PIPING IN LIEU OF PVC. EXTEND CAST IRON PIPE 30'-40' TO ALLOW MIXING WITH COLDER WASTE STREAMS TO DILUTE TEMPERATURE OF WASTE.

## GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL REMOVE EXISTING FIXTURES AS INDICATED BY HATCHED PATTERN.

2. CONTRACTOR SHALL DISPOSE OF REMOVED FIXTURES AS INDICATED BY OWNER.

3. CONTRACTOR SHALL CAP ALL WASTE PIPING AS CLOSE TO MAIN AS POSSIBLE. MAXIMUM LENGTH OF DEAD END PIPING SHALL BE 2'-0".

4. CONTRACTOR SHALL CAP ALL WATER PIPING AS CLOSE TO MAIN AS POSSIBLE. MAXIMUM LENGTH OF DEAD END PIPING SHALL BE 2'-0".

5. CONTRACTOR SHALL RECONNECT OR REROUTE ANY EXISTING PIPING AS REQUIRED TO KEEP EXISTING "FIXTURES TO REMAIN" IN SERVICE, AND PIPING CONCEALED WHETHER PIPING IS SHOWN OR NOT.

6. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS INCLUDING EXACT PIPE LOCATION, SIZE, AND INVERT BEFORE STARTING CONSTRUCTION.

7. COORDINATE PHASING OF REMOVAL OF EXISTING PLUMBING LINES, DRAIN, AND CLEAN-OUTS WITH GENERAL CONTRACTOR & HOSPITAL STAFF. COORDINATE PHASING WITH GENERAL CONTRACTOR. PROVIDE SHIFT WORK AND MULTIPLE CERTIFICATIONS AS REQUIRED.

8. DEMOLITION WORK SHALL BE COORDINATED WITH ALL OTHER TRADES AND WITH THE NEW CONSTRUCTION PLANS FOR THE EXACT SCOPE OF WORK.

9. EXISTING ROUTING AND LOCATION OF PIPING, EQUIPMENT, ETC. SHOWN, ARE BASED ON PREVIOUS CONTRACT DOCUMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS FOR DISCREPANCIES.

10. ALL EXISTING WALLS, CEILING, FLOOR SLABS, ROOF, ETC., BEING CUT OR DAMAGED UNDER THIS CONTRACT TO BE PATCHED BACK TO MATCH EXISTING FINISH AND FIRE PROTECTION RATING. COORDINATE REQUIREMENTS WITH ARCHITECTURAL.

11. IN AREAS OF RENOVATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, RAISING, RE-ROUTING, AND/OR RELOCATING EXISTING SPRINKLER MAINS, PLUMBING MAINS AND BRANCH LINES TO ALLOW FOR THE INSTALLATION OF NEW MAJOR PIPE, CONDUIT AND DUCTWORK. RAISE PIPING AS NECESSARY TO ACCOMMODATE NEW CEILING HEIGHTS INDICATED ON ARCHITECTURAL CEILING PLANS.

12. EXISTING VERTICAL PIPING DISCOVERED IN WALLS OR CHASES DURING DEMOLITION SHALL BE REWORKED TO OFFSET INTO NEW WALLS, CHASES, ETC. AND RECONNECTED TO MAINTAIN SERVICES TO FLOORS BELOW AND ABOVE.

13. ANY EXISTING PIPING WHICH ENCLOSES THE ELECTRICAL EQUIPMENT RESTRICTED AREA OR FALLS ABOVE ELECTRONIC OR ELECTRICAL EQUIPMENT SHALL BE REROUTED TO AVOID SAID AREAS.

## PLUMBING FIXTURE CONNECTION SCHEDULE

SYMBOL	DESCRIPTION	CONNECTION SIZE		
		WASTE	COLD WATER	HOT WATER
P-101	WATER CLOSET (PUB, FM, FV, ADA)	4"	1 1/4"	---
P-104	WATER CLOSET (PAT, FM, FV, BPW, ADA)	4"	1 1/4"	---
P-303	LAVATORY (WH, GN, SENSOR, ADA)	1 1/4"	1/2"	1/2"
P-304	LAVATORY (WH, GN, WB, PATIENT, ADA)	1 1/4"	1/2"	1/2"
P-409	SINK - SOLID SURFACE (GN, WB, ADA)	1 1/2"	1/2"	1/2"
P-411	SINK - UTILITY / SOILED LINEN (GN, WB)	1 1/2"	1/2"	1/2"
P-501	CLINGAL SINK (WALL MOUNTED)	1 1/4"	1/2"	1/2"
P-505	JANITOR SINK (FAUCET/EYEWASH)	3"	1/2"	1/2"
P-701	FLOOR DRAIN (REG.)	2" OR 4"	---	---
P-702	FLOOR DRAIN (MECH.)	4"	---	---
P-710	ROOF DRAIN	AS SHOWN	---	---
P-711	OVERFLOW ROOF DRAIN	AS SHOWN	---	---
P-724	DOWNSPOUT NOZZLE	AS SHOWN	---	---
P-801	WALL HYDRANT (EXTERIOR)	---	3/4"	---
P-802	HOSE BIBB (INTERIOR W/ VACUUM BREAKER)	---	3/4"	---
P-804	ICE/COFFEE MAKER CONNECTION BOX	---	1/2"	---
P-815	ICE/COFFEE MAKER CONNECTION BOX (WITH DRAIN)	2"	1/2"	---
P-900	SCRUB SINK (WH)	2"	1/2"	1/2"
P-901	FLOOR SINK (ARE, 16" SQUARE -1/2 GRATE)	4"	---	---

NOTES:  
1. ALL WALL MTD. FIXTURES SHALL BE PROVIDED WITH FLOOR MOUNTED, CONCEALED ARM WALL CARRIER.  
2. ALL EXPOSED P-TRAPS SHALL BE PROVIDED W/LAV SHIELDS.  
3. PROVIDE BACKFLOW PREVENTER AT CONNECTION TO OWNER FURNISHED EQUIPMENT PER IPC.  
4. PROVIDE AND INSTALL TRAP PRIMERS FOR ALL FLOOR DRAINS.  
5. IN ADDITION TO SERVICE VALVES SHOWN ON PLANS, PROVIDE AND INSTALL ISOLATION VALVES ON HOT AND COLD WATER SUPPLY PIPING TO EACH PLUMBING FIXTURE, INCLUDING TRAP PRIMERS.  
6. SHOCKTROL TO BE ZURN SERIES Z-1700 OR EQUAL. SIZE AS INDICATED ON WATER RISER DIAGRAM.  
7. PROVIDE ACCESS TO ALL SHOCKTROLS THRU ACCESS PANELS, LAY-IN CEILINGS, WALL IN CHASE.  
8. PROVIDE CHECK VALVES ON HOT AND COLD WATER LINES SERVING JANITORIAL SERVICES.

## INSTRUMENT AIR COMPRESSOR SCHEDULE

SYMBOL	MANUFACTURER	MODEL	RATING	ELECTRICAL	SCFM
IAC-1	POWEREX	SF050872AJ	5	208/1/60	15 SCFM @ 100 PSI

NOTES:  
1. AIR COMPRESSOR SHALL BE MOUNTED ON AN UNISTRUT ABOVE EXISTING AIR COMPRESSOR.  
2. PROVIDE WALL MOUNTED ALTERNATE PANEL.

## PLUMBING ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A	MEDICAL AIR LINE	MECH	MECHANICAL
ADA	AMERICANS WITH DISABILITIES ACT	MTD	MOUNTED
AFF	ABOVE FINISHED FLOOR	O2	OXYGEN LINE
AVTR	ACID VENT THROUGH ROOF	OFE	OWNER FURNISHED EQUIPMENT
BPW	BED PAN WASHER	PAT	PATIENT
CLG	CEILING	PUB	PUBLIC
CONT	CONTINUATION	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
COORD	COORDINATION	RWL	RAINWATER PIPING
CO	CLEAN OUT	SS	SANITARY SEWER PIPING
CW	COLD WATER LINE	SD	UNDERGROUND STORM PIPING
DN	DOWN	SF	SQUARE FOOT
DWG	DRAWING	SV	SANITARY VENT PIPING
EA	EACH	TMP	TEMPERATURE
FM	FLOOR MOUNTED	TMV	THERMOSTATIC MIXING VALVE
FV	FLUSH VALVE	TYP	TYPICAL
GN	GOOSENECK	V	MEDICAL VACUUM PIPING
GPM	GALLONS PER MINUTE	VTR	VENT THROUGH ROOF
HW	HOT WATER LINE	W/	WITH
HWR	HOT WATER RETURN	WB	WRIST BLADE
LAV	LAVATORY	WC	WATER CLOSET
LPA	LINE PRESSURE ALARM	WCO	WALL CLEAN OUT
MAP	MASTER ALARM PANEL	WH	WALL HUNG

## PLUMBING

SYMBOL	DESCRIPTION
	REDUCED PRESSURE BACKFLOW PREVENTER
	P TRAP
	BALL VALVE
	CONNECTION TO EXISTING
	MEDICAL GAS ZONE VALVE BOX
	MEDICAL GAS ALARM PANEL
	MEDICAL GAS DESIGNATION
	FLOOR DRAIN
P- No.	PLUMBING FIXTURE DESIGNATION
	END CAP
	COLD WATER SUPPLY
	HOT WATER SUPPLY
	HOT WATER RETURN
	SANITARY VENT
	SANITARY WASTE
	RAIN WATER LEADER
	STORM DRAIN
	OXYGEN LINE
	VACUUM LINE
	MEDICAL AIR LINE
	INSTRUMENT AIR LINE
	PURE WATER

### GENERAL CONTRACTORS

BRASFIELD & GORRIE

### M&E & T CONSULTANT

L.C. THOMASSON ASSOCIATES, INC.  
2950 KRAFT DRIVE  
NASHVILLE, TN 37204  
MANAGER: THOMAS WATKINS

### STRUCTURAL CONSULTANT

STANLEY D. LINDSEY & ASSOCIATES, LTD.  
750 OLD HICKORY BLVD. BLDG. 1 STE. 175  
BIRMINGHAM, TN 37204  
MANAGER: THOMAS WATKINS

### CIVIL CONSULTANT

RIMLEY HORN AND ASSOCIATES, INC.  
214 OCEANSIDE DR.  
NASHVILLE, TN 37204  
MANAGER: CHRIS WATKINS

### HCA Healthcare

HCA DESIGN MANAGER:  
MICHAEL WALKER  
HCA CONSTRUCTION MANAGER:  
RYAN MCCULLOUGH

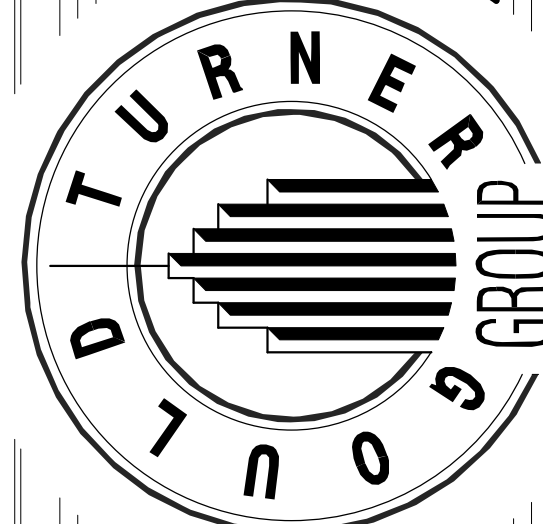
### REVISIONS:

### CONSTRUCTION DOCUMENTS

## GOULD TURNER GROUP, P.C.

ARCHITECTURE  
615 3RD AVE SOUTH, SUITE 700  
NASHVILLE, TENNESSEE 37210

DATE:  
11/1/2021



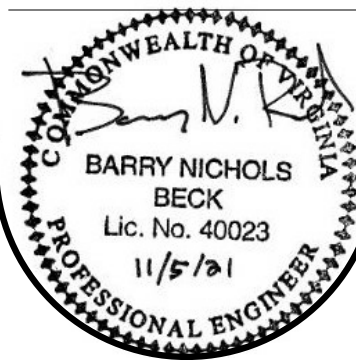
## LEWISGALE HOSPITAL MONTGOMERY

## SURGERY EXPANSION & RENOVATION

3700 S. MAIN ST. BLACKSBURG, VA 24060  
HCA# 344100009  
GTC# 7249300

### VENDOR INFORMATION

STEEL: HANSON STEEL & CO. SUPPLY  
CIVIL: HANSON STEEL & CO. SUPPLY  
ELECTRICAL: HANSON STEEL & CO. SUPPLY  
MECHANICAL: HANSON STEEL & CO. SUPPLY  
PLUMBING: HANSON STEEL & CO. SUPPLY  
ROOFING: HANSON STEEL & CO. SUPPLY  
SITING: HANSON STEEL & CO. SUPPLY  
TERRAZZO: HANSON STEEL & CO. SUPPLY  
WOODWORK: HANSON STEEL & CO. SUPPLY

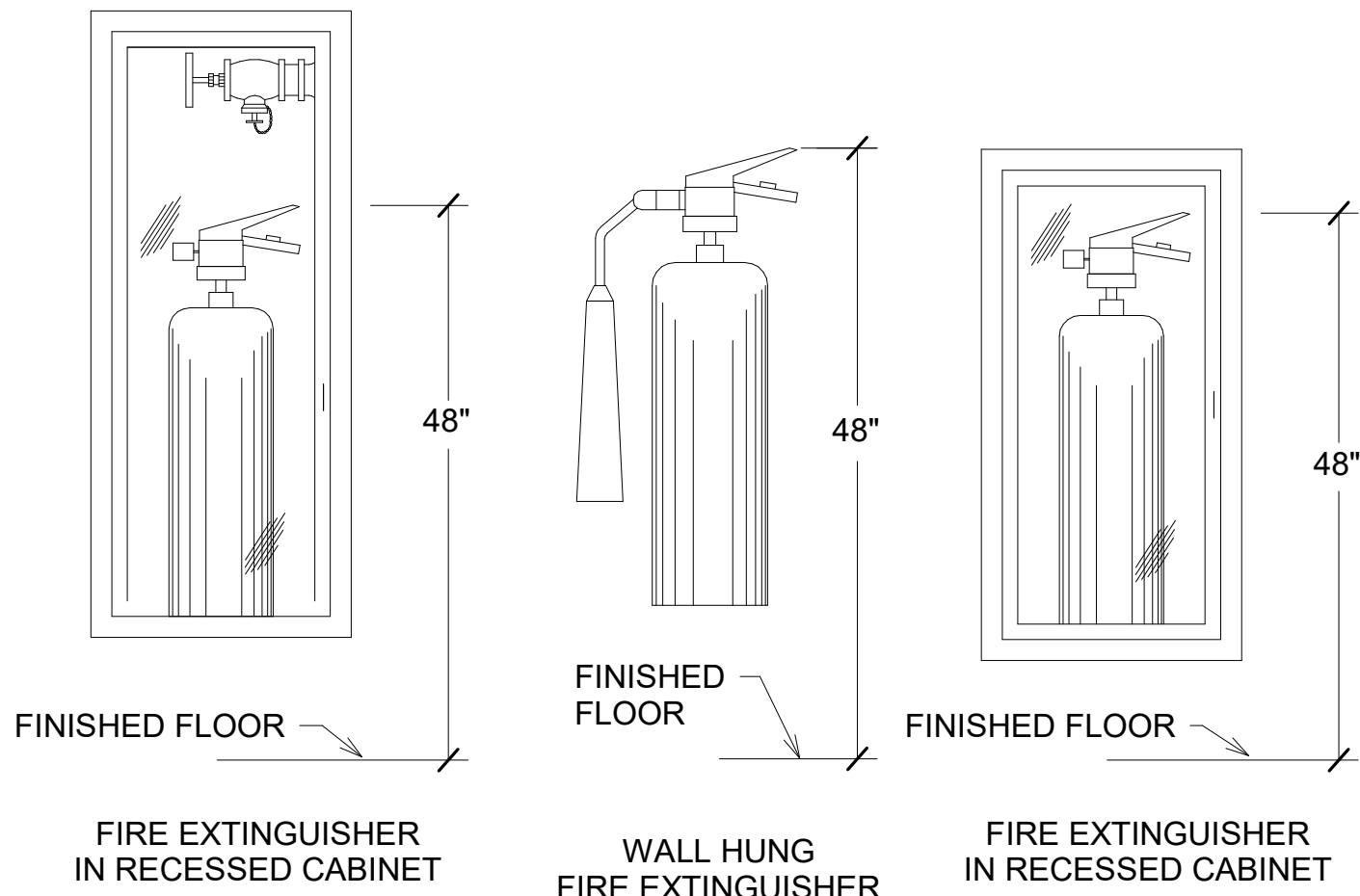


## PLUMBING - SCHEDULES P0.01



SEISMIC ZONE

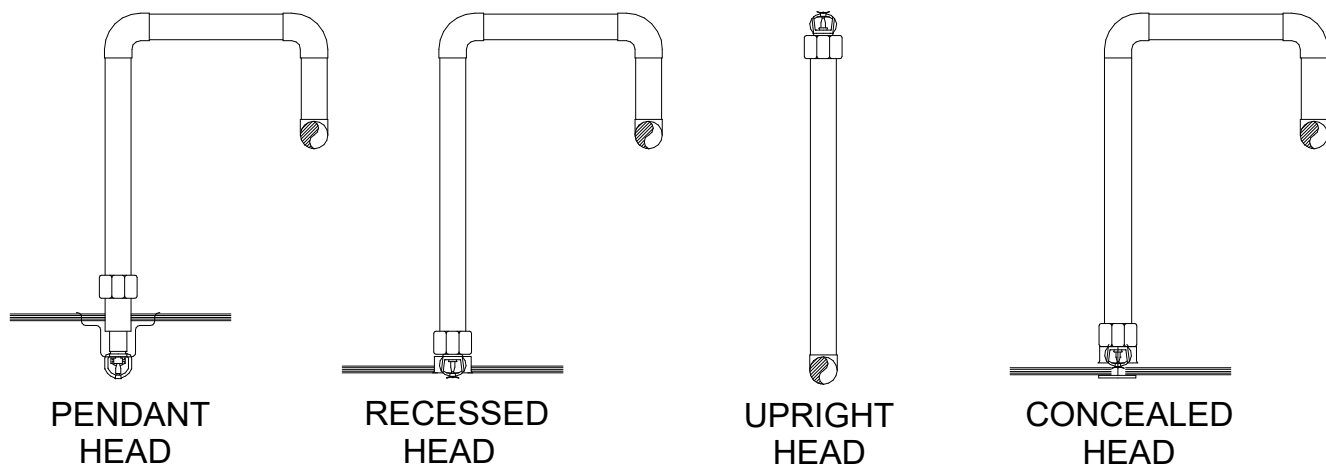
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FIRE EXTINGUISHER MOUNTING HEIGHTS

No Scale

1



NOTES:

- WHERE PENDANT STYLE HEADS ARE INDICATED AND AN ACOUSTICAL TILE CEILING IS TO BE INSTALLED, INSTALL PENDANT HEADS CENTERED IN BOTH DIRECTIONS.
- ARMOVERS WHICH EXCEED 2' - 0" SHALL INCLUDE HANGERS TO STRUCTURE. IF SYSTEM PRESSURE EXCEEDS 100 PSI, ARMOVERS WHICH EXCEED 1' - 0" SHALL INCLUDE HANGERS TO STRUCTURE.
- EXISTING SPRINKLERS IN BOTH NEW AND EXISTING CEILING AREAS ACCESSED DURING CONSTRUCTION ACTIVITIES SHALL BE PROVIDED WITH THE APPLICABLE HANGERS AND RESTRAINTS INCLUDING ANY TRAPEZE SUPPORT CONNECTION.

SPRINKLER HEAD DETAILS

No Scale

2

AUTOMATIC SPRINKLER NOTES

AS PART OF THIS PROJECT, FURNISH AND INSTALL A COMPLETE AUTOMATIC SPRINKLER SYSTEM FOR ALL RENOVATED AREAS. THE END PRODUCT SHALL PRODUCE A FULLY SPRINKLERED FACILITY, PER NFPA 13. ALL SPRINKLERS SHALL BE INSTALLED ACCORDING TO THEIR LISTING. COORDINATE WITH THE ARCHITECTURAL PLANS FOR THE LIMITS OF CONSTRUCTION, CEILING HEIGHTS AND CEILING TYPES. REFER TO THE FIRE PROTECTION FLOOR PLANS FOR CONNECTION POINTS AND ZONING OF THE SYSTEM(S).

UNLESS OTHERWISE NOTED, SPRINKLER SYSTEMS FOR RENOVATED AREAS ARE TO REMAIN AS PART OF THE EXISTING ZONE. IN AREAS OF RENOVATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, RE-ROUTING AND/OR RELOCATING EXISTING MAINS AND BRANCH LINES TO ALLOW FOR THE INSTALLATION OF NEW DUCTWORK AND/OR MAJOR PIPE AND CONDUIT RUNS AND MAINTAIN NEW CEILING HEIGHTS AS SET BY THE ARCHITECTURAL PLANS. THE CONTRACTOR IS RESPONSIBLE FOR RELOCATING EXISTING DRAIN LINES AND INSPECTOR'S TEST STATIONS AS REQUIRED BY ARCHITECTURAL MODIFICATIONS TO THE FACILITY.

THE FIRE PROTECTION SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF NFPA 10, 13, 14 AND 25, ALL LOCAL, COUNTY, AND STATE REGULATIONS, AS WELL AS THE FACILITY'S INSURANCE UNDERWRITER.

PRESSFIT STYLE FITTINGS AND THREADABLE, THIN WALL PIPING SHALL NOT BE UTILIZED ON THIS PROJECT. FLEXIBLE, STAINLESS STEEL HOSE CONNECTIONS BETWEEN SPRINKLER HEADS AND BRANCH PIPING SHALL NOT BE UTILIZED ON THIS PROJECT. EXTENDED COVERAGE HEADS SHALL NOT BE UTILIZED. REDUCTION TO AREA AS ALLOWED IN NFPA 13 IS NOT ACCEPTABLE ON THIS PROJECT.

THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED BY THE SPRINKLER CONTRACTOR. PROVIDE CALCULATIONS FOR THE HYDRAULICALLY MOST DEMANDING AREA AND FOR EACH OCCUPANCY CLASSIFICATION. THE CALCULATIONS SHALL UTILIZE THE FOLLOWING CRITERIA:

- PATIENT ROOMS, OFFICE AREAS, EXAM AND TREATMENT ROOMS, CORRIDORS, LOBBIES AND SIMILAR SPACES WHICH ARE SUBDIVIDED SHALL BE DESIGNED TO A LIGHT HAZARD OCCUPANCY CLASSIFICATION, HYDRAULICALLY BALANCED TO PRODUCE 0.1 GPM DENSITY OVER 1,500 SQUARE FEET AND HEAD COVERAGE OF 225 SQUARE FEET/HEAD MAXIMUM USING 165 DEGREE F QUICK RESPONSE HEAD. INCLUDE 100 GPM FOR HOSE STREAMS.
- STORAGE ROOMS, MECHANICAL AND ELECTRICAL ROOMS AND SIMILAR SPACES SHALL BE DESIGNED TO AN ORDINARY HAZARD GROUP I OCCUPANCY CLASSIFICATION, HYDRAULICALLY BALANCED TO PRODUCE 0.14 GPM DENSITY OVER 2,000 SQUARE FEET AND HEAD COVERAGE OF 130 SQUARE FEET/HEAD MAXIMUM USING 165 DEGREE F QUICK RESPONSE HEAD. INCLUDE 250 GPM FOR HOSE STREAMS.

ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE AND PROVIDED WITH TEMPERATURE RATINGS AS DICTATED BY NFPA FOR THE SPACES SERVED AND PER THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. THE SPRINKLER CONTRACTOR SHALL COORDINATE THE LOCATION OF PIPING AND HEADS WITH LIGHT FIXTURES, DIFFUSERS, DUCTWORK, PLUMBING LINES, ETC., AND MAKE MINOR ADJUSTMENTS IN THE SPRINKLER LAYOUT WHERE REQUIRED OR DEEMED NECESSARY BY THE ARCHITECT. ALL SPRINKLER HEADS SHALL BE LOCATED SYMMETRICALLY IN ALL AREAS AND CENTERED IN CEILING TILES. PROVIDE SPRINKLER HEADS BY TYPE AS FOLLOWS:

IN AREAS WITH A LAY-IN, TILE CEILING, PROVIDE CHROME-PLATED, SEMI-RECESSED, QUICK RESPONSE TYPE SPRINKLER HEADS. ASSOCIATED SPRINKLER PIPING SHALL BE ROUTED ABOVE THE CEILING AND IN FURRED SPACES, CHASES, ETC., TO COMPLETELY CONCEAL ALL PIPING.

IN AREAS WITHOUT FINISHED CEILINGS, PROVIDE BRASS, UPRIGHT QUICK RESPONSE TYPE SPRINKLER HEADS. ASSOCIATED SPRINKLER PIPING SHALL BE ROUTED EXPOSED TO VIEW. WHERE EXPOSED IN OCCUPIED SPACES, PAINT PIPE TO MATCH ADJOINING AREAS (COLOR SELECTED BY ARCHITECT). PROVIDE AND INSTALL HARD-WIRE CAGE SPRINKLER GUARDS ON ALL SPRINKLER HEADS SUBJECT TO MECHANICAL DAMAGE.

IN AREAS WITH A FINISHED GYP BOARD CEILING (INCLUDING SOFFITS), PROVIDE CONCEALED, FULLY RECESSED QUICK RESPONSE TYPE SPRINKLER HEADS WITH WHITE COVER PLATE. ASSOCIATED SPRINKLER PIPING SHALL BE ROUTED IN FURRED SPACES, CHASES, ETC., TO COMPLETELY CONCEAL ALL PIPING.

IN ADDITION, PROVIDE CONCEALED, FULLY RECESSED QUICK RESPONSE TYPE SPRINKLER HEADS WITH WHITE COVER PLATE IN ALL LOBBIES, ELEVATOR LOBBIES, WAITING ROOMS, OPERATING ROOMS, IMAGING ROOMS, CATH LABS, SPECIAL PROCEDURE ROOMS, AND PATIENT ISOLATION ROOMS AND ASSOCIATED TOILETS.

SPRINKLER CONTRACTOR SHALL INSTALL WIRE GUARDS ON SPRINKLER HEADS IN TELECOMM ROOMS.

PROVIDE A SINGLE, SEMI-RECESSED, QUICK RESPONSE SPRINKLER HEAD WITHIN CLOTHING STORAGE AREA (WARDROBE) IN ALL PATIENT ROOMS. PER NFPA 13 WARDROBES LESS THAN 6 SQUARE FEET ARE NOT REQUIRED TO BE SPRINKLER PROTECTED.

ALL GAUGES AND VALVES MUST BE ACCESSIBLE FOR INSPECTION AND MAINTENANCE.

THE SPRINKLER CONTRACTOR SHALL SUBMIT COMPLETE SPRINKLER SHOP DRAWINGS AND CALCULATIONS STAMPED AND SIGNED BY THE SPRINKLER CONTRACTOR WITH A MINIMUM NICET III REGISTRATON FOR REVIEW AND APPROVAL, PRIOR TO INSTALLATION. THEY MUST BE SIGNED BY A RESPONSIBLE MANAGING EMPLOYEE AND SUBMITTED BY A REGISTERED FIRE PROTECTION CONTRACTOR.

ALL SPRINKLER CONTROL VALVES SHALL BE ELECTRONICALLY SUPERVISED BY FIRE ALARM PANEL WITH ALARM, TROUBLE, AND SUPERVISORY SIGNALS. WIRING TO BE BY ELECTRICAL CONTRACTOR.

ALL SPRINKLER BRANCH OUTLETS TO BE A MINIMUM OF 1".

FIRE PROTECTION ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A/S	AUTOMATIC SPRINKLER	F	FIRE PROTECTION WET PIPE
FDC	FIRE DEPARTMENT CONNECTION	FPA	FIRE PROTECTION PRE-ACTION PIPE
FDV	FIRE DEPARTMENT VALVE	OS&Y	OUTSIDE SCREW & YOKE
DP	FIRE PROTECTION DRY PIPE	PRV	PRESSURE REDUCING VALVE
FE	FIRE EXTINGUISHER	W/	WITH
FEC	FIRE EXTINGUISHER CABINET	FDVC	FIRE DEPT. VALVE CABINET
FDVC/FE	FIRE DEPT. VALVE CABINET W/ EXTINGUISHER		

FIRE EXTINGUISHER SCHEDULE

ABBREVIATION	DESCRIPTION	RATING	AREA
FEC	FIRE EXTINGUISHER CABINET	10LB 4A:60:BC	AS SHOWN
FE	FIRE EXTINGUISHER WALL HUNG W/ BRACKET	10LB 4A:60:BC	AS SHOWN
FE/C02	FIRE EXTINGUISHER WALL HUNG W/ BRACKET	10LB C02:BC	ELECTRICAL / COMM. ROOM

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
	CONNECTION TO EXISTING
	FIRE EXTINGUISHER
	FIRE EXTINGUISHER CABINET
	END CAP
	FIRE PROTECTION WET PIPING

MEDICAL GAS

SYMBOL	TYPE OUTLET	GASES	LOCATION
A	HOSE DROPS	(2)O2, (1)A, (1)V, (1) N2O, (1)WAGD	O.R.
B	WALL OUTLETS	(1)O2, (1)A, (1)V, (1)SL	O.R.
C	EQUIPMENT BOOM	(2)V, (1)N, (1)A	O.R.
D	WALL OUTLETS	(2)O2, (1)A, (3)V, (3)SL	PACU
E	WALL OUTLETS	(2)O2, (1)A, (3)V, (3)SL	PREP/ RECOVERY
PA	LINE PRESSURE ALARM	AS SHOWN	NURSE'S STATION
ZV	ZONE VALVE BOX	3 - GASES (O2,A,V)	AS SHOWN
ZV	ZONE VALVE BOX	6 - GASES (O2,A,V, N2O,N2, WAGD)	AS SHOWN
NV	NITROGEN CONTROL CABINET	N	O.R.

NOTES:

- REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF MEDICAL GAS WALL OUTLETS.
- ALL MEDICAL GAS OUTLETS SHALL MATCH EXISTING MEDICAL GAS OUTLETS.
- SERVICE VALVES SHALL BE PLACED IN THE BRANCH LINES PRIOR TO ANY ZONE VALVE BOX ASSEMBLY ON THAT BRANCH.
- PROVIDE PERMANENT SINAGE FOR ZONE VALVE BOXES IDENTIFYING GASES AND ZONES SERVING.
- PROVIDE PERMANENT SINAGE FOR LINE PRESSURE ALARMS IDENTIFYING GASES AND AREA BEING MONITORED.
- MAP AND LPA TO CONNECT TO BAS SYSTEM.

FIRE WATCH NOTE

PROVIDE FIRE WHEN EXISTING SPRINKLER SYSTEMS ARE OUT OF SERVICE FOR MORE THAN 10 HOURS IN ANY 24 HOUR PERIOD. NOTIFY FIRE DEPARTMENT ANYTIME SPRINKLERS ARE OUT OF SERVICE AND WHEN SPRINKLERS ARE REACTIVATED.

GENERAL CONTRACTORS

BRASHFIELD & CORRIE

REVISIONS:

CONSTRUCTION DOCUMENTS

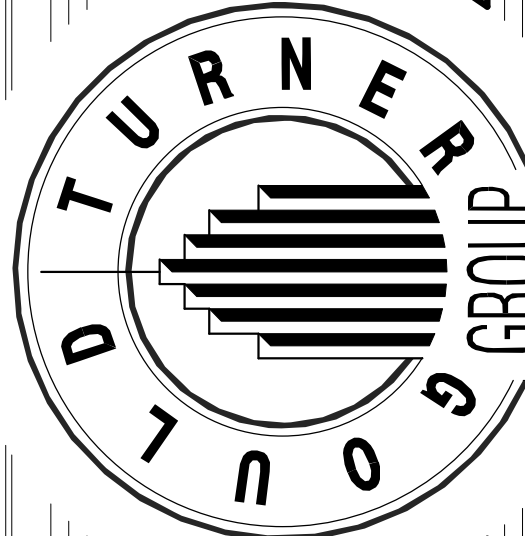
GOULD TURNER GROUP, P.C.

ARCHITECTURE

615 3RD AVE SOUTH, SUITE 700

NASHVILLE, TENNESSEE 37210

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LEWISGALE HOSPITAL MONTGOMERY

SURGERY EXPANSION & RENOVATION

3700 S. MAIN ST, BLACKSBURG, VA 24060

HCM# 344100009

GT# 3749300

CIVIL CONSULTANT

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2114 OCEANSIDE DR.  
NASHVILLE, TN 37204  
MANAGER: CHRIS TREES

HCA Healthcare  
HCA DESIGN MANAGER:  
MICHAEL MAUL  
HCA CONSTRUCTION MANAGER:  
RYAN MCCULLURE

M,P,E & T CONSULTANT

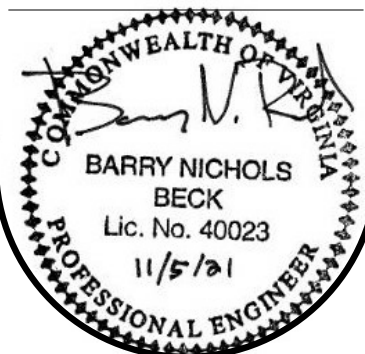
L.C. THOMASSON ASSOCIATES, INC.  
2950 KRAFT DRIVE  
NASHVILLE, TN 37204  
MANAGER: TERRY HANCO

STRUCTURAL CONSULTANT

STANLEY D. LINDSEY & ASSOCIATES, LTD.  
750 OLD HICKORY BLVD. BLDG. 1 STE. 175  
BIRMINGHAM, TN 37027  
MANAGER: TERRY HANCO

VENDOR INFORMATION

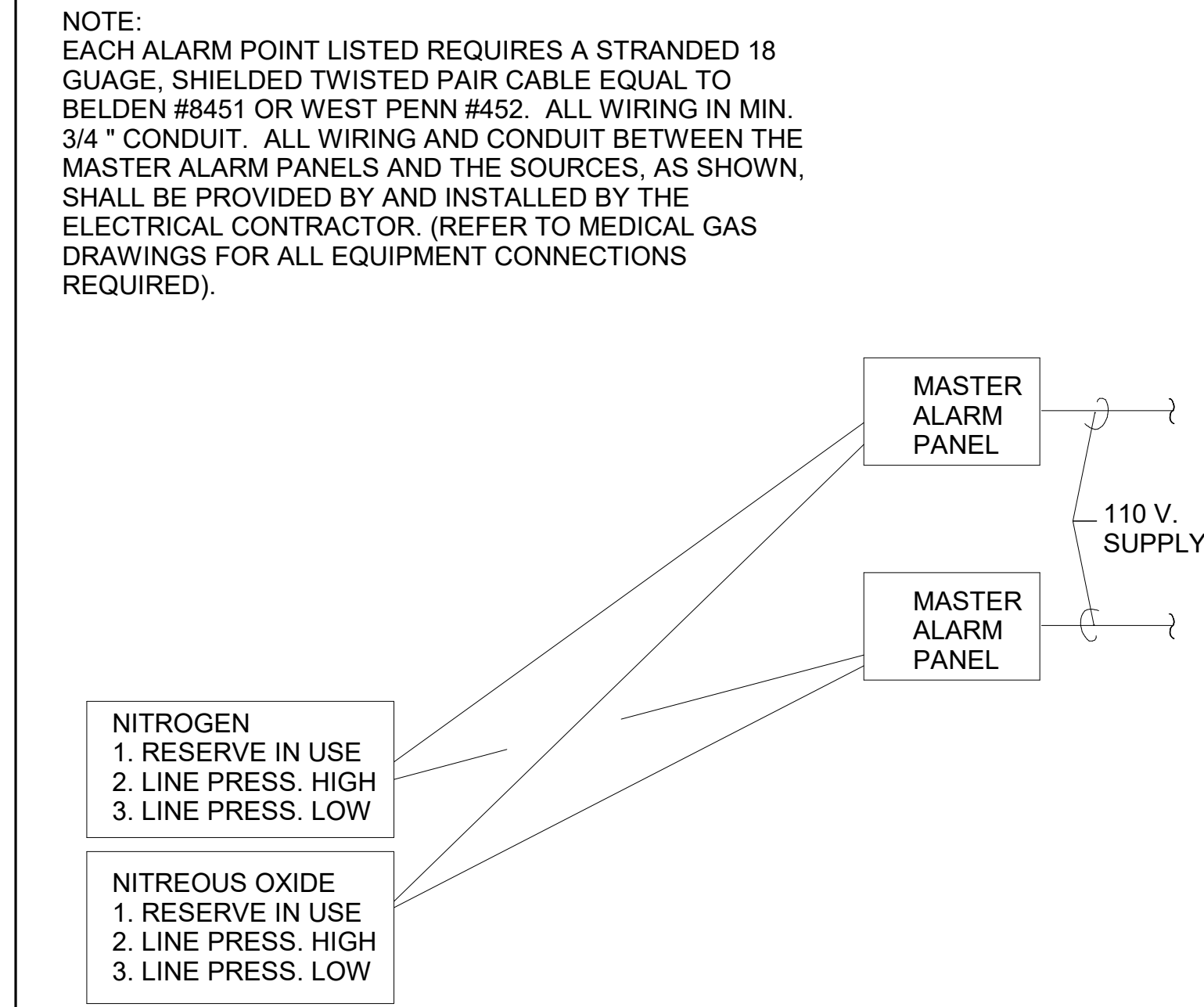
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PIPE: HANCO STEEL & CO. INC.  
PLUMBING: HANCO STEEL & CO. INC.  
ELECTRICAL: HANCO STEEL & CO. INC.  
MECHANICAL: HANCO STEEL & CO. INC.  
PAINTS & COATINGS: HANCO STEEL & CO. INC.  
GLASS: HANCO STEEL & CO. INC.  
FLOORING: HANCO STEEL & CO. INC.  
CEILING: HANCO STEEL & CO. INC.  
WALLS: HANCO STEEL & CO. INC.  
DOORS: HANCO STEEL & CO. INC.  
WINDOWS: HANCO STEEL & CO. INC.  
ROOFING: HANCO STEEL & CO. INC.  
FOUNDATION: HANCO STEEL & CO. INC.  
CONCRETE: HANCO STEEL & CO. INC.  
MASONRY: HANCO STEEL & CO. INC.  
IRONWORK: HANCO STEEL & CO. INC.  
CIVIL: HANCO STEEL & CO. INC.  
LANDSCAPE: HANCO STEEL & CO. INC.  
SITES: HANCO STEEL & CO. INC.  
TRUCKS: HANCO STEEL & CO. INC.  
EQUIPMENT: HANCO STEEL & CO. INC.  
TOOLS: HANCO STEEL & CO. INC.  
MATERIALS: HANCO STEEL & CO. INC.  
LABOR: HANCO STEEL & CO. INC.  
SUBCONTRACTORS: HANCO STEEL & CO. INC.  
GENERAL: HANCO STEEL & CO. INC.

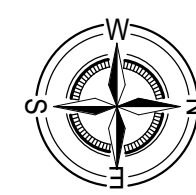


MED GAS & FIRE PROTECTION - SCHEDULES  
P0.02









GENERAL NOTES:

1. CONTRACTOR SHALL CUT EXISTING FLOOR SLAB FOR WASTE LINE INSTALLATION AS REQUIRED. PATCH FLOOR TO MATCH EXISTING.
2. CONTRACTOR TO VERIFY EXISTING STORM AND WASTE INVERTS BEFORE CONSTRUCTION.

PLUMBING DEMOLITION NOTES: ☐

1. EXISTING SANITARY TO BE REMOVED.
2. EXISTING TO REMAIN.
3. EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING TO BE REMOVED



**HCA**   
Healthcare™  
**HCA DESIGN MANAGER:**  
MIKAL MALIK  
**HCA CONSTRUCTION MANAGER:**  
RYAN MCCLURE

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PLUMBING -  
UNDERGROUND PLAN -  
A - DEMOLITION  
**P1.00**

# ARCHITECTURE

615 3RD AVE SOUTH, SUITE 700  
NASHVILLE, TENNESSEE 37210

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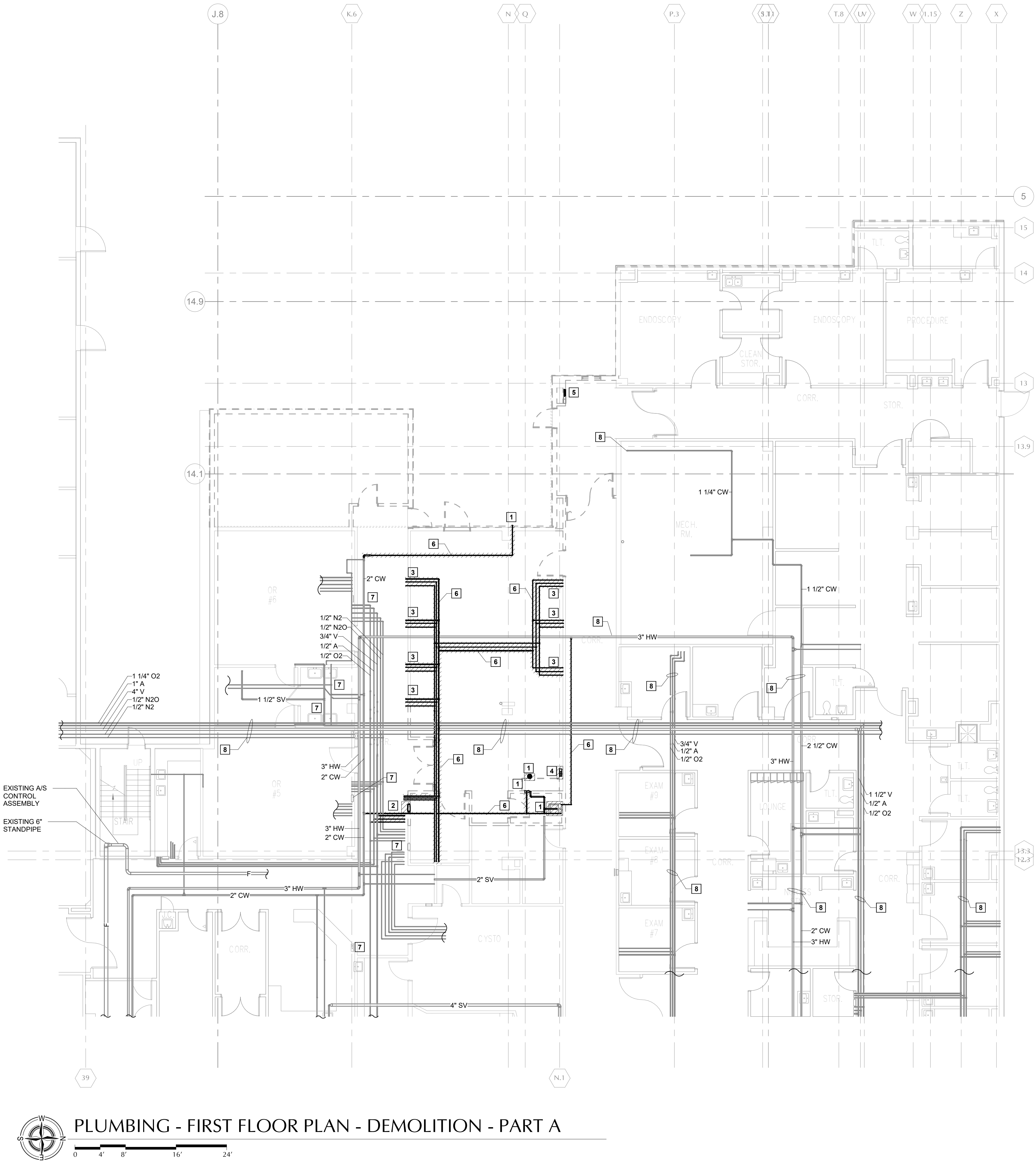
REVISIONS:

**CONSTRUCTION  
DOCUMENTS**

DATE: 11/05/2021

DATE: 11/05/2021

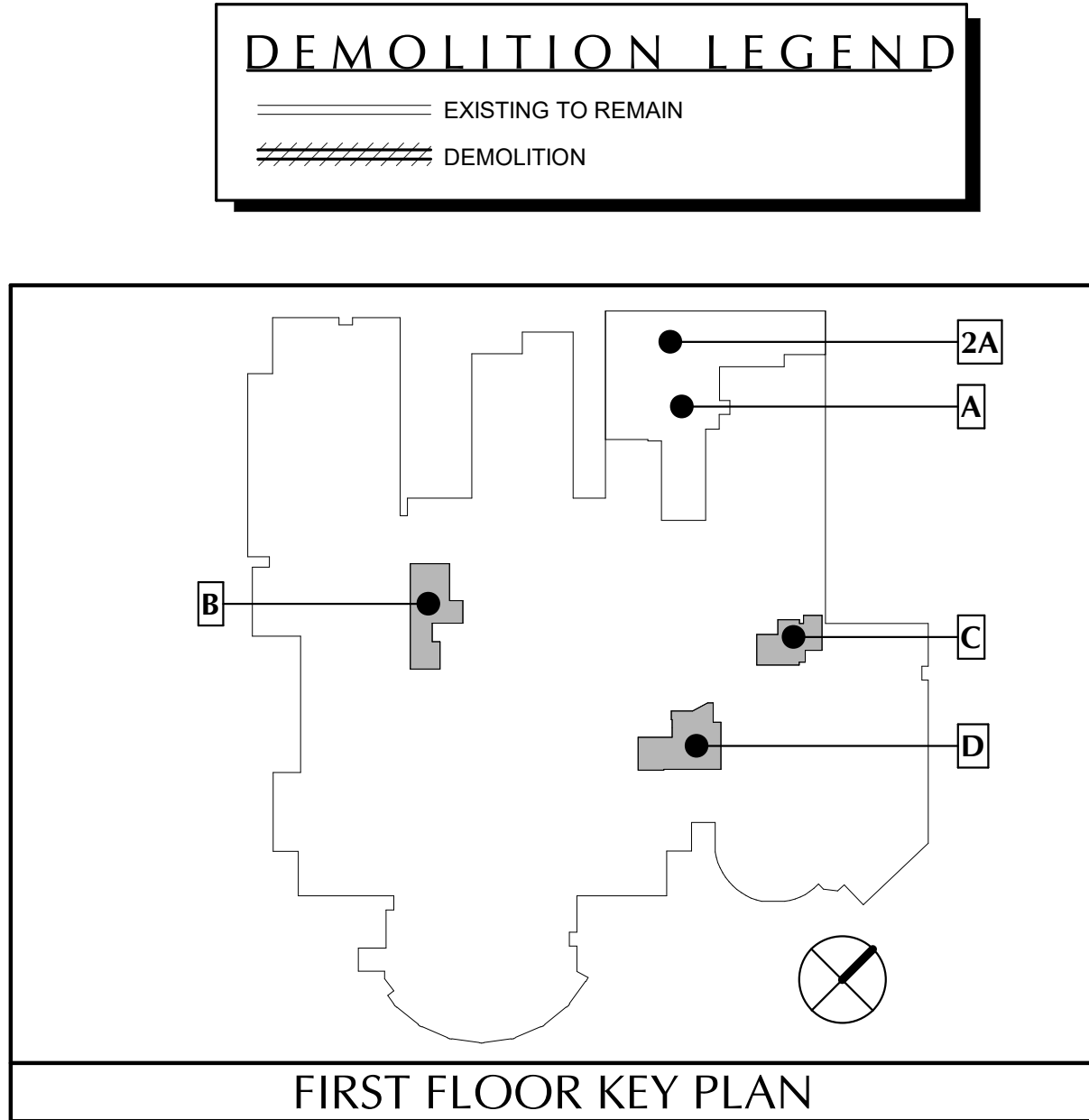




PARTITION LEGEND - SEE SHEET A4.01			
↑ HIGHEST PRIORITY	1	TWO HOUR RATED FIRE BARRIER - SHAFTWALL	
	2	TWO HOUR RATED FIRE & SMOKE BARRIER	
	3	TWO HOUR RATED FIRE BARRIER	
	4	ONE HOUR RATED FIRE BARRIER	
	5	ONE HOUR RATED FIRE & SMOKE BARRIER	
↓ LOWEST PRIORITY	6	ONE HOUR RATED FIRE BARRIER - (INCIDENTAL USE/HAZARDOUS AREA)	
	7	SMOKE PARTITION	
	8	PARTITION TO CEILING - STUDS TO DECK, STOP GYPSUM BOARD 4\"/>	

- AUTOMATIC SPRINKLER DEMOLITION NOTES:**
- REMOVE EXISTING AUTOMATIC SPRINKLER HEADS WITHIN AREA OF RENOVATION.
  - HEADS TO BE REPLACED WITH NEW QUICK RESPONSE TYPE HEADS AND LOCATED PER NEW PARTITION LAYOUT. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXTENT OF CEILING WORK WITHIN THIS AREA.
  - CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS INCLUDING EXACT PIPE LOCATION, SIZE, AND INVERT BEFORE STARTING CONSTRUCTION.
  - COORDINATE PHASING OF REMOVAL OF EXISTING FIRE LINES, DRAINS, AND SPRINKLER HEADS WITH GENERAL CONTRACTOR & HOSPITAL STAFF.
  - EXISTING ROUTING AND LOCATION OF PIPING, SPRINKLER HEADS, ETC. SHOWN, ARE BASED ON PREVIOUS CONTRACT DOCUMENTS. CONTRACTOR TO VERIFY EXISTING CONDITIONS FOR DISCREPANCIES.
  - ALL EXISTING WALLS, CEILINGS, FLOOR SLABS, ETC., BEING CUT OR DAMAGED UNDER THIS CONTRACT TO BE PATCHED BACK TO MATCH EXISTING FINISH. COORDINATE REQUIREMENTS WITH ARCHITECTURAL.
  - IN AREAS OF RENOVATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, REROUTING, AND/OR RELOCATING EXISTING SPRINKLER MAINS AND BRANCH LINES TO ALLOW FOR THE INSTALLATION OF NEW MAJOR PIPE AND OTHER DISCIPLINES. RAISE PIPING AS NECESSARY TO ACCOMMODATE NEW CEILING HEIGHTS INDICATED ON ARCHITECTURAL CEILING PLANS.

- DEMOLITION PLAN NOTES:**
- EXISTING PLUMBING FIXTURE TO BE REMOVED. ASSOCIATED PIPING TO BE REMOVED BACK TO MAINS AND CAP.
  - EXISTING ZONE VALVE BOX TO BE REMOVED.
  - EXISTING MEDICAL GAS OUTLETS TO BE REMOVED.
  - EXISTING LINE PRESSURE ALARM TO BE REMOVED.
  - EXISTING FIRE DEPARTMENT CONNECTION TO BE REMOVED.
  - EXISTING TO BE REMOVED.
  - EXISTING PLUMBING FIXTURE TO REMAIN.
  - EXISTING TO REMAIN.



**GENERAL CONTRACTORS**  
BRASFIELD & GORRIE

**STRUCTURAL CONSULTANT**  
STANLEY D. LINDSEY & ASSOCIATES, LTD.  
750 OLD HICKORY BLVD. BLDG. 1 STE. 175  
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MANAGER: TERRY HARTER

**CIVIL CONSULTANT**  
RIMLEY HORN AND ASSOCIATES, INC.  
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NASHVILLE, TN 37204  
MANAGER: CHRIS TREES

**HCA Healthcare**  
HCA DESIGN MANAGER:  
MICHAEL MAUL  
HCA CONSTRUCTION MANAGER:  
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**M.P.E. & T. CONSULTANT**  
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MANAGER: TERRY HARTER

**LEWISGALE HOSPITAL MONTGOMERY**  
SURGERY EXPANSION & RENOVATION  
3700 S. MAIN ST, BLACKSBURG, VA 24060  
HCA# 344100009  
GT# 749300

**VENDOR INFORMATION**  
STEEL: HANSON STEEL & CO. EQUIP.  
PIPE: HANSON STEEL & CO. EQUIP.  
PLUMBING: HANSON STEEL & CO. EQUIP.  
ELECTRICAL: HANSON STEEL & CO. EQUIP.  
MECHANICAL: HANSON STEEL & CO. EQUIP.  
PAINTS & COATINGS: HANSON STEEL & CO. EQUIP.  
GLASS: HANSON STEEL & CO. EQUIP.  
FLOORING: HANSON STEEL & CO. EQUIP.  
CEILING: HANSON STEEL & CO. EQUIP.  
LIGHTING: HANSON STEEL & CO. EQUIP.  
FURNITURE: HANSON STEEL & CO. EQUIP.  
FIXTURES: HANSON STEEL & CO. EQUIP.  
ELECTRICAL: HANSON STEEL & CO. EQUIP.  
MECHANICAL: HANSON STEEL & CO. EQUIP.  
PAINTS & COATINGS: HANSON STEEL & CO. EQUIP.  
GLASS: HANSON STEEL & CO. EQUIP.  
FLOORING: HANSON STEEL & CO. EQUIP.  
CEILING: HANSON STEEL & CO. EQUIP.  
LIGHTING: HANSON STEEL & CO. EQUIP.  
FURNITURE: HANSON STEEL & CO. EQUIP.  
FIXTURES: HANSON STEEL & CO. EQUIP.

REVISIONS:

**CONSTRUCTION DOCUMENTS**

**GOULD TURNER GROUP, P.C.**  
ARCHITECTURE  
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NASHVILLE, TENNESSEE 37210  
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Architects - Planners - Interiors

**TURNER GROUP**

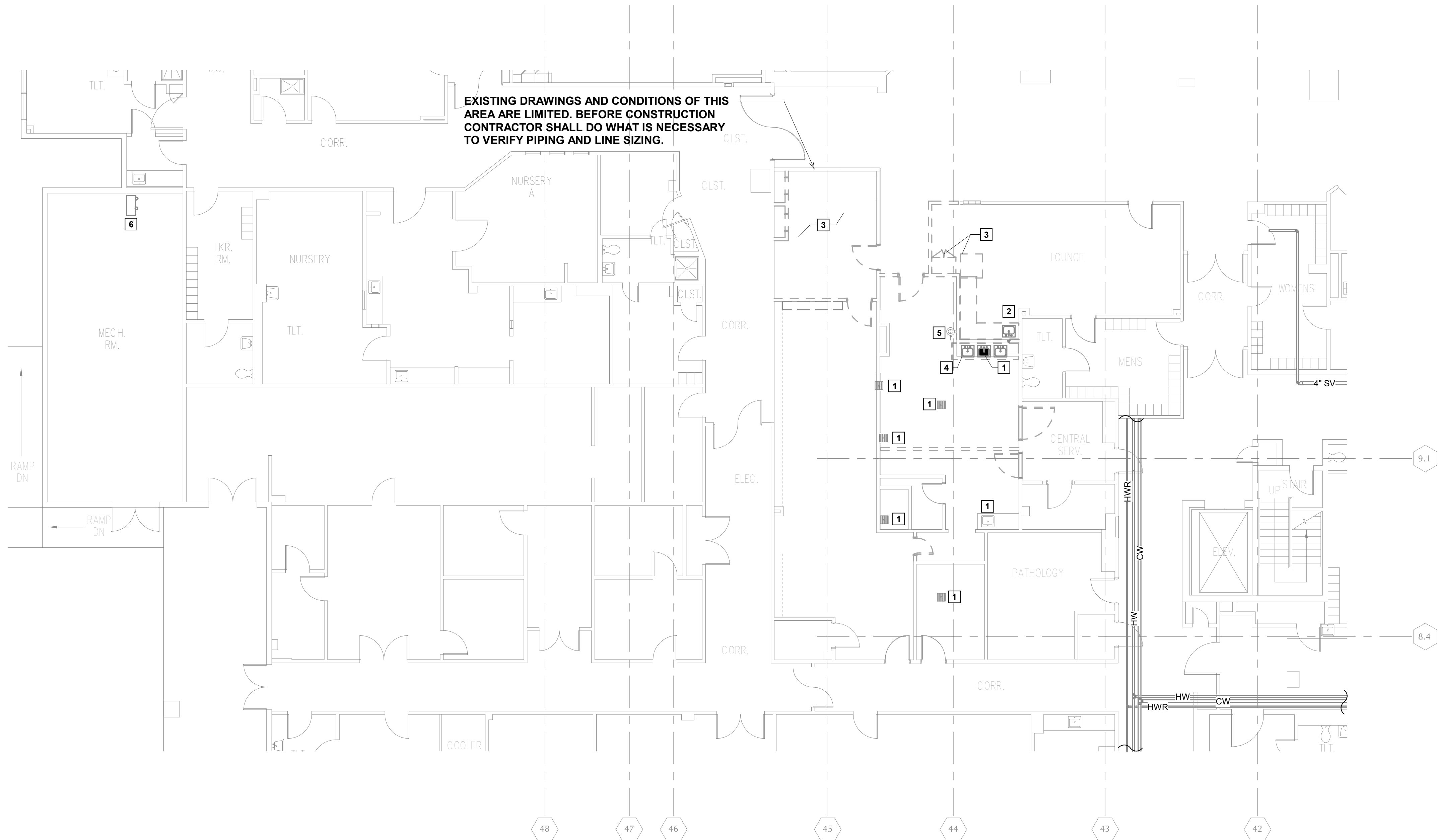
Architects - Planners - Interiors

DATE:  
11/05/2021

**PROFESSIONAL ENGINEER**  
BARRY NICHOLS  
Lic. No. 40023  
11/5/91

PLUMBING - 1ST FLOOR  
PLAN - A - DEMOLITION  
**P1.02**

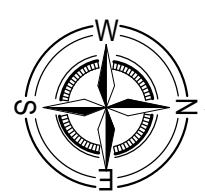
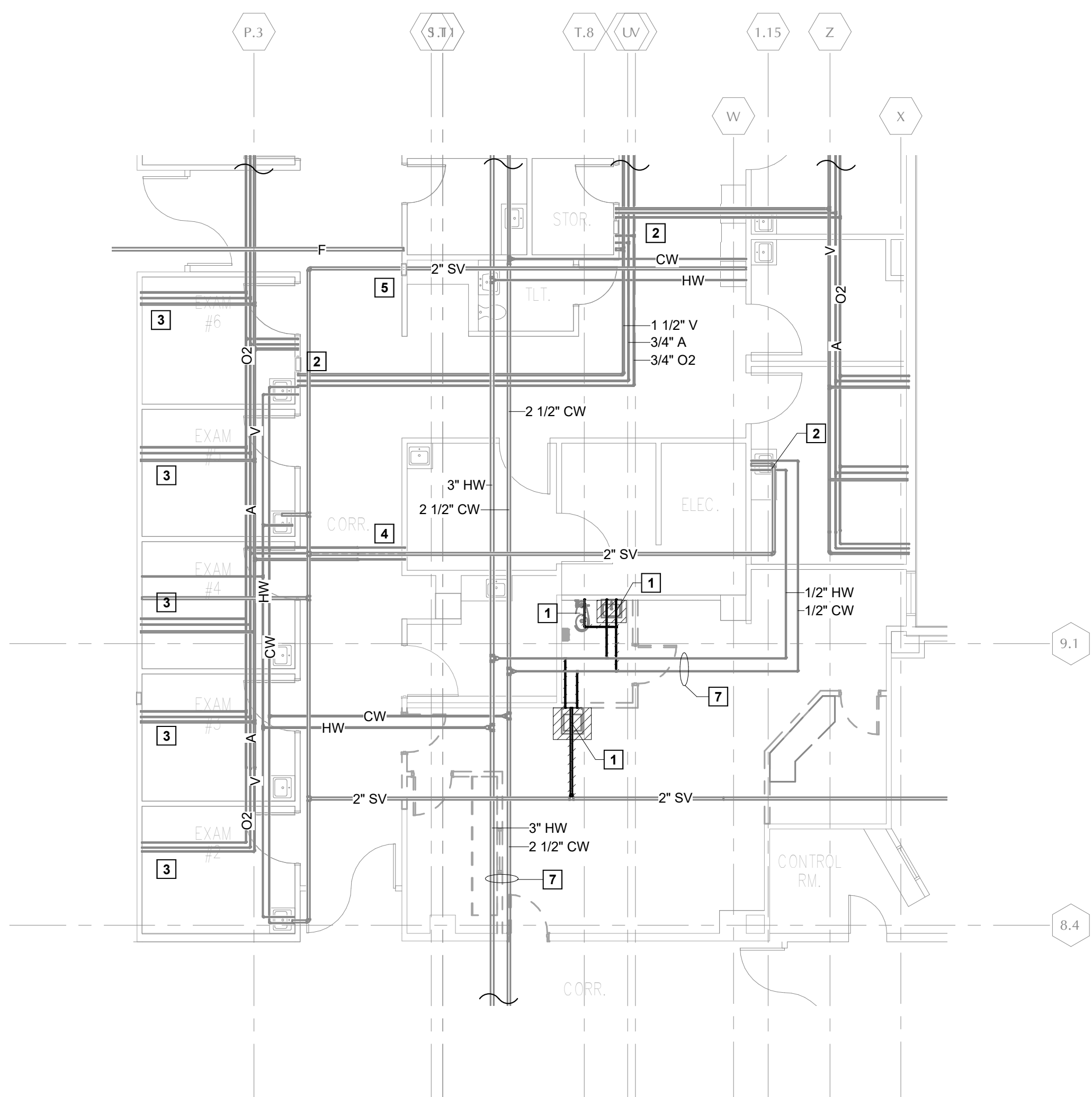




PLUMBING - FIRST FLOOR PLAN - DEMOLITION - PART B

DEMOLITION PLAN NOTES:

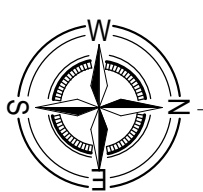
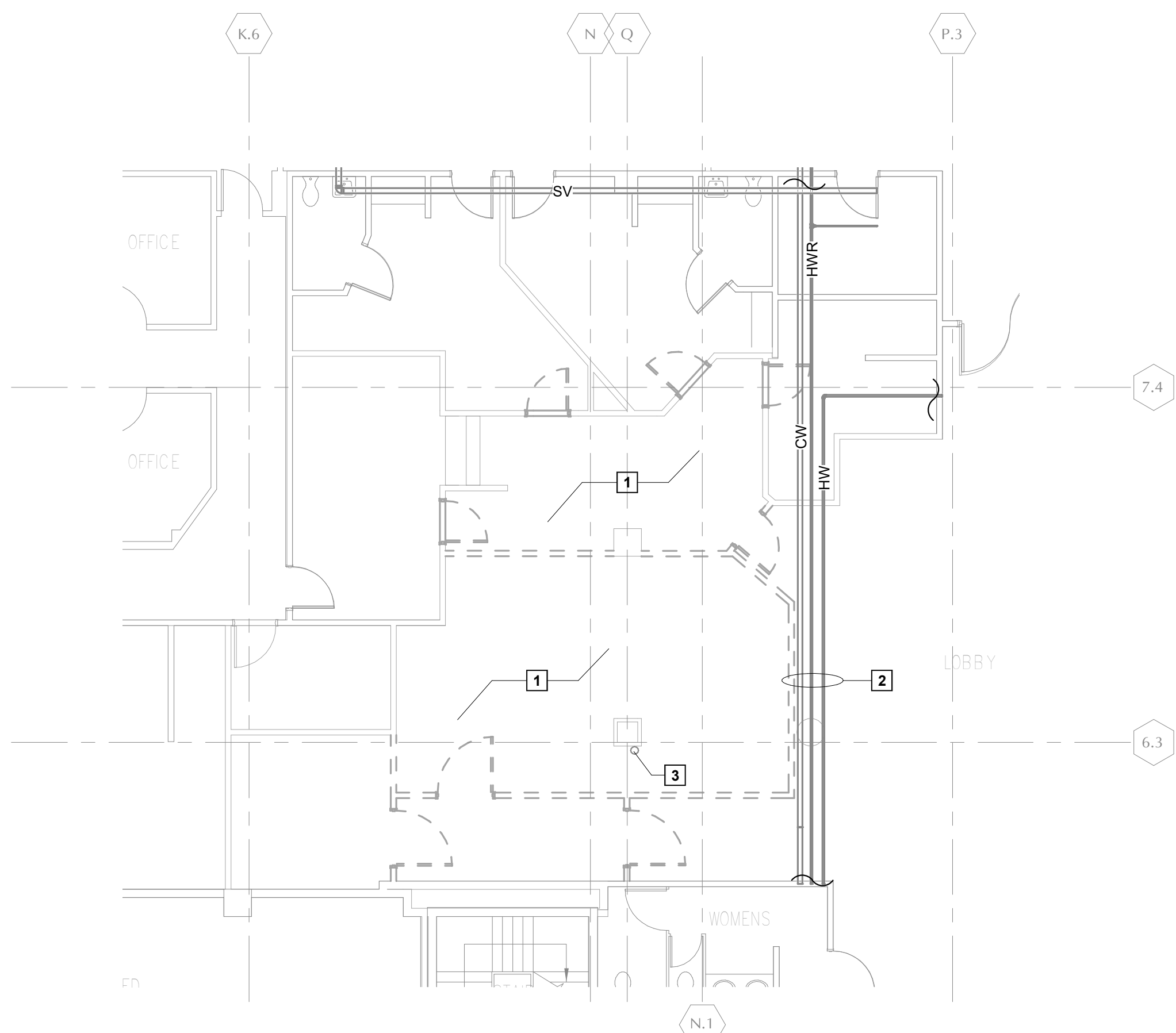
- EXISTING PLUMBING FIXTURE TO REMAIN.
- EXISTING PLUMBING FIXTURE TO BE REMOVED. ASSOCIATED PIPING SHALL BE REWORKED, AS NECESSARY, TO ACCEPT NEW FIXTURE.
- EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING WITHIN AREA OF RENOVATION TO BE REMOVED.
- EXISTING PLUMBING FIXTURE TO BE RELOCATED. ASSOCIATED PIPING TO BE REMOVED AND REWORKED TO ACCEPT NEW LOCATION.
- EXISTING EMERGENCY EYEWASH STATION TO BE REMAIN.
- EXISTING INSTRUMENT AIR COMPRESSOR SERVING CENTRAL STERILE TO REMAIN.
- EXISTING FLOOR SINK TO BE REMOVED.



PLUMBING - FIRST FLOOR PLAN - DEMOLITION - PART C

DEMOLITION PLAN NOTES:

- EXISTING PLUMBING FIXTURE TO BE REMOVED. ASSOCIATED PIPING TO BE REMOVED BACK TO MAINS AND CAP.
- EXISTING ZONE VALVE BOX TO REMAIN.
- EXISTING MEDICAL GAS OUTLETS TO REMAIN.
- EXISTING LINE PRESSURE ALARM TO REMAIN.
- EXISTING FIRE DEPARTMENT CONNECTION TO REMAIN.
- EXISTING PLUMBING FIXTURE TO REMAIN.
- EXISTING TO REMAIN.



PLUMBING - FIRST FLOOR PLAN - DEMOLITION - PART D

DEMOLITION PLAN NOTES:

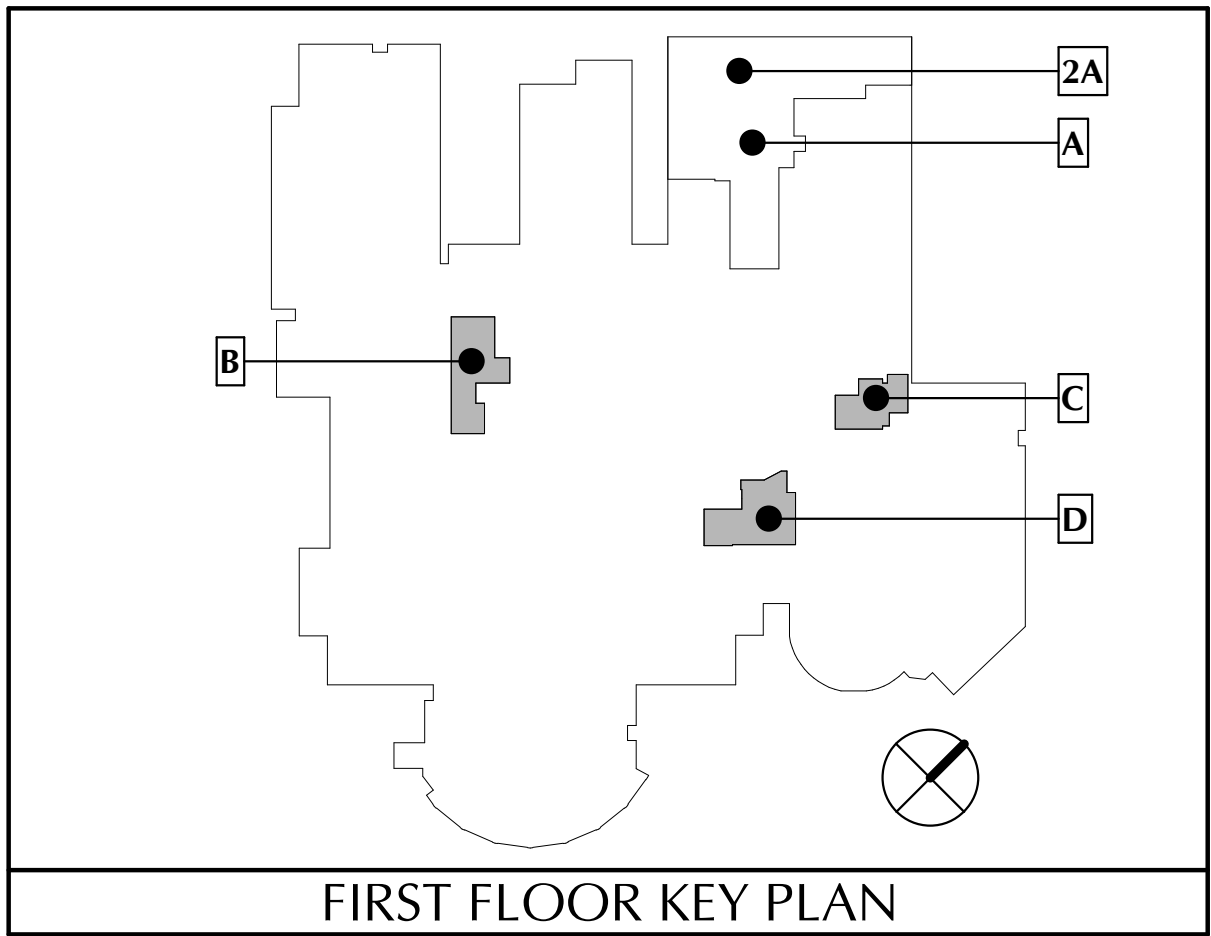
- PLUMBING FIXTURE IN AREA OF RENOVATION TO BE REMOVED. ASSOCIATED PIPING TO BE REMOVED BACK TO MAINS AND CAP.
- EXISTING PIPING TO REMAIN.
- EXISTING 6" RWL LOCATED WITHIN EXISTING COLUMN TO REMAIN.

PARTITION LEGEND - SEE SHEET A4.01			
HIGHEST PRIORITY	1	TWO HOUR RATED FIRE BARRIER - SHAFTWALL	2S 2S 2S
	2	TWO HOUR RATED FIRE & SMOKE BARRIER	2FS 2FS 2FS
	3	TWO HOUR RATED FIRE BARRIER	2F 2F 2F
	4	ONE HOUR RATED FIRE BARRIER	1F 1F 1F
	5	ONE HOUR RATED FIRE & SMOKE BARRIER	1FS 1FS 1FS
	6	ONE HOUR RATED FIRE BARRIER - (INCIDENTAL USE/HAZARDOUS AREA)	1HR 1HR 1HR
	7	SMOKE PARTITION	NS NS NS
LOWEST PRIORITY	8	PARTITION TO CEILING - STUDS TO DECK, STOP GYPSUM BOARD 4" ABOVE CEILING.	

AUTOMATIC SPRINKLER DEMOLITION NOTES:

- REMOVE EXISTING AUTOMATIC SPRINKLER HEADS WITHIN AREA OF RENOVATION.
- HEADS TO BE REPLACED WITH NEW QUICK RESPONSE TYPE HEADS AND LOCATED PER NEW PARTITION LAYOUT. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXTENT OF CEILING WORK WITHIN THIS AREA.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS INCLUDING EXACT PIPE LOCATION, SIZE, AND INVERT BEFORE STARTING CONSTRUCTION.
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DEMOLITION LEGEND	
	EXISTING TO REMAIN
	DEMOLITION



FIRST FLOOR KEY PLAN

GENERAL CONTRACTORS  
BRASHFIELD & CORRIE

M,P,E & T CONSULTANT  
L.C. THOMASSON ASSOCIATES, INC.  
2950 KRAFT DRIVE  
NASHVILLE, TN 37204  
MANAGER: TERRY WATKINS

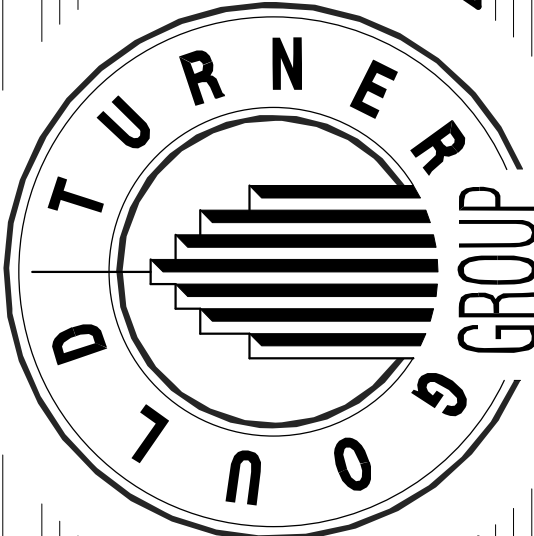
STRUCTURAL CONSULTANT  
STANLEY D. LINDSEY & ASSOCIATES, LTD.  
750 OLD HICKORY BLVD. BLDG. 1 STE. 175  
BREWSTER, TN 37027  
MANAGER: TERRY WATKINS

CIVIL CONSULTANT  
RIMLEY HORN AND ASSOCIATES, INC.  
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HCA DESIGN MANAGER:  
MICAL MAHUK  
HCA CONSTRUCTION MANAGER:  
RYAN MCCULLURE

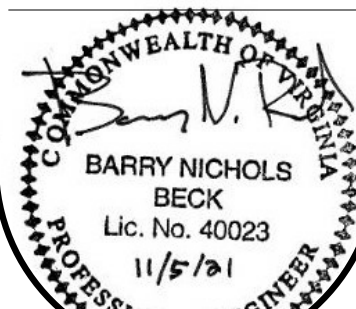
GOULD TURNER GROUP, P.C.

ARCHITECTURE  
615 3RD AVE SOUTH, SUITE 700  
NASHVILLE, TENNESSEE 37210  
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LEWISGALE HOSPITAL MONTGOMERY

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3700 S. MAIN ST, BLACKSBURG, VA 24060  
HCA# 344100009  
GT# 3749300



PLUMBING - 1ST FLOOR  
PLAN - B.C.D -  
DEMOLITION  
P1.03

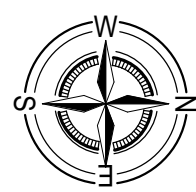
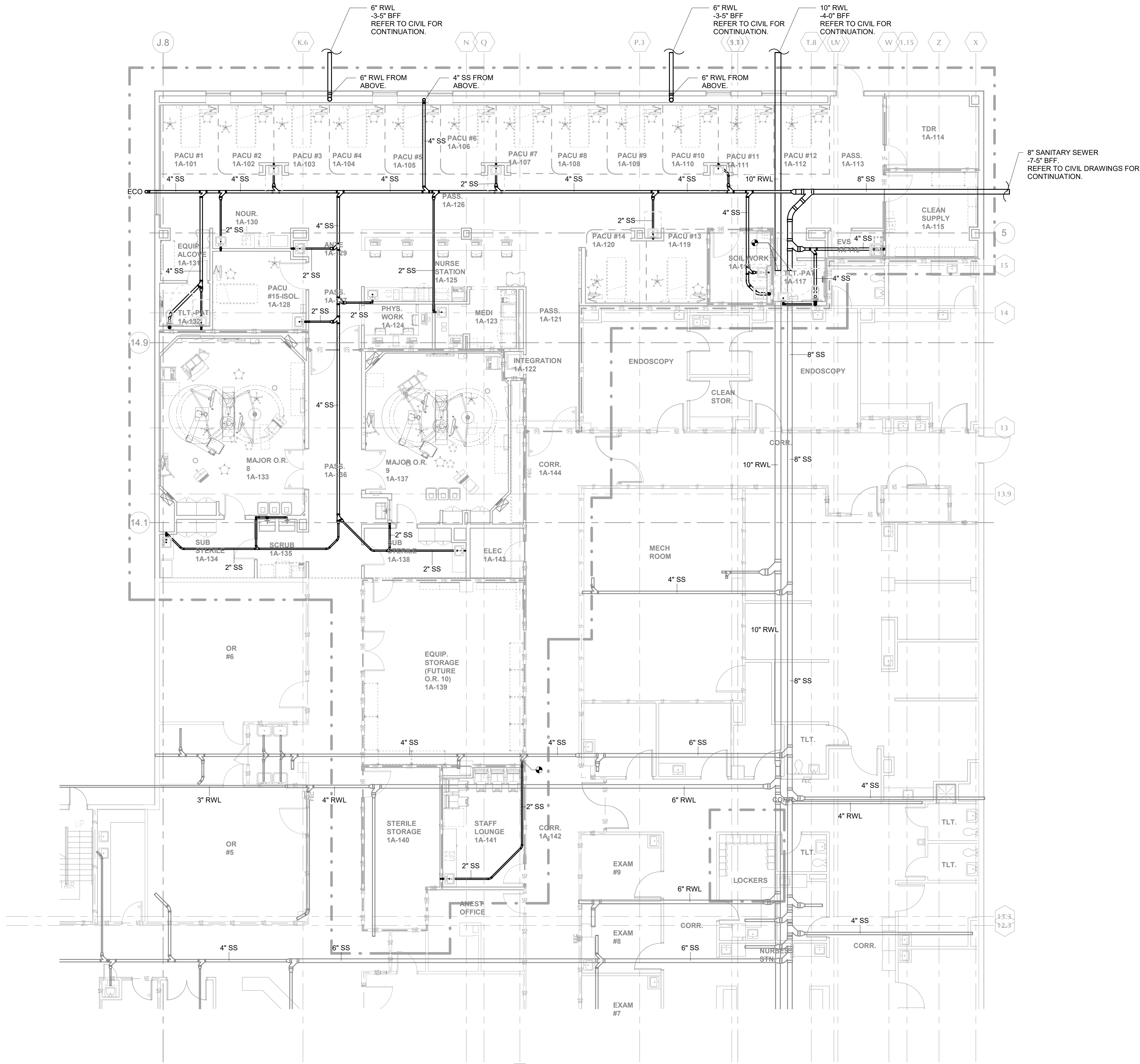
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SANITARY - UNDERGROUND - PART A

0 4' 8' 16' 24'

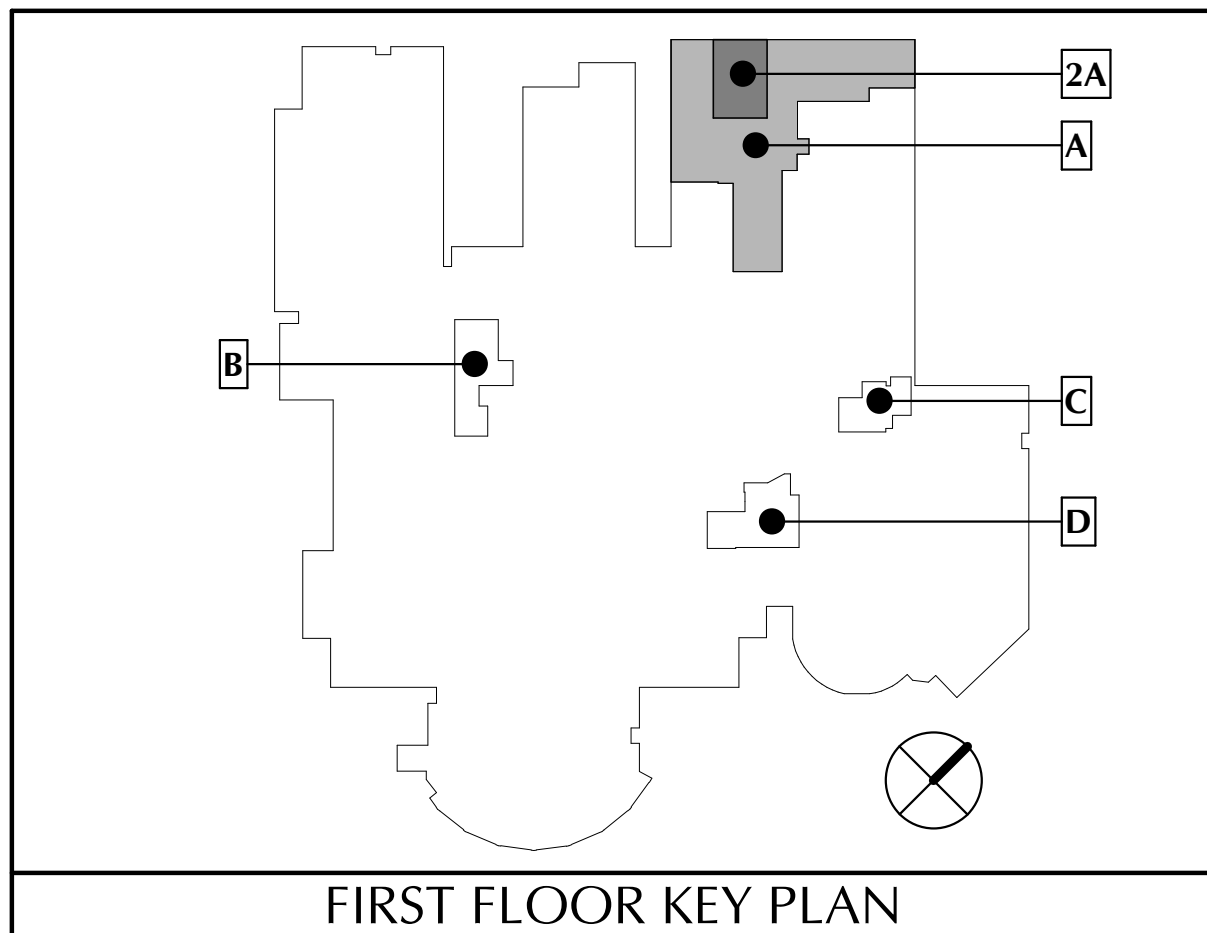
PARTITION LEGEND - SEE SHEET A4.01			
HIGHEST PRIORITY	1	TWO HOUR RATED FIRE BARRIER - SHAFTWALL	2S 2S 2S
	2	TWO HOUR RATED FIRE & SMOKE BARRIER	2FS 2FS 2FS
	3	TWO HOUR RATED FIRE BARRIER	2F 2F 2F
	4	ONE HOUR RATED FIRE BARRIER	1F 1F 1F
	5	ONE HOUR RATED FIRE & SMOKE BARRIER	1FS 1FS 1FS
	6	ONE HOUR RATED FIRE BARRIER (INCIDENTAL USE/HAZARDOUS AREA)	1HR 1HR 1HR
	7	SMOKE PARTITION	NS NS NS
LOWEST PRIORITY	8	PARTITION TO CEILING - STUDS TO DECK, STOP GYPSUM BOARD 4" ABOVE CEILING.	

GENERAL NOTES:

- CONTRACTOR SHALL CUT EXISTING FLOOR SLAB FOR WASTE LINE INSTALLATION AS REQUIRED. PATCH FLOOR TO MATCH EXISTING.

NEW WORK LEGEND

EXISTING TO REMAIN  
NEW CONSTRUCTION



FIRST FLOOR KEY PLAN

GENERAL CONTRACTORS  
BRASFIELD & GORRIE

M.P.E. & T. CONSULTANT  
L.C. THOMASSON ASSOCIATES, INC.  
2950 KRAFT DRIVE  
NASHVILLE, TN 37204  
MANAGER: TERRY WATKINS

STRUCTURAL CONSULTANT  
STANLEY D. LINDSEY & ASSOCIATES, LTD.  
750 OLD HICKORY BLVD. BLDG. 1 STE. 175  
BIRMINGHAM, TN 37207  
MANAGER: TERRY WATKINS

CIVIL CONSULTANT  
RIMLEY HORN AND ASSOCIATES, INC.  
214 OCEANSIDE DR.  
NASHVILLE, TN 37204  
MANAGER: CHRIS FARRIS

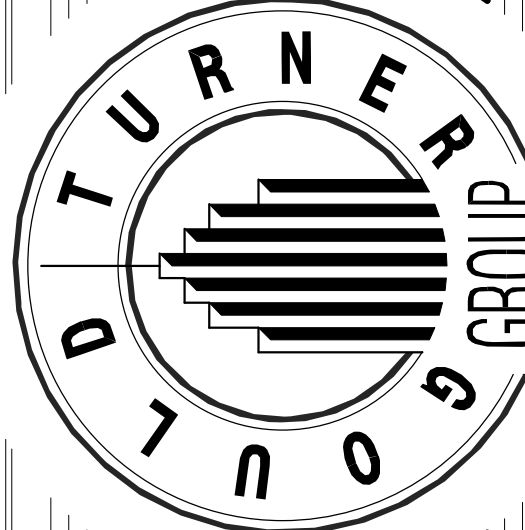
HCA Healthcare  
HCA DESIGN MANAGER:  
MICAL MAJIK  
HCA CONSTRUCTION MANAGER:  
RYAN MCCULLURE

REVISIONS:

CONSTRUCTION DOCUMENTS

GOULD TURNER GROUP, P.C.

ARCHITECTURE  
615 3RD AVE SOUTH, SUITE 700  
NASHVILLE, TENNESSEE 37210  
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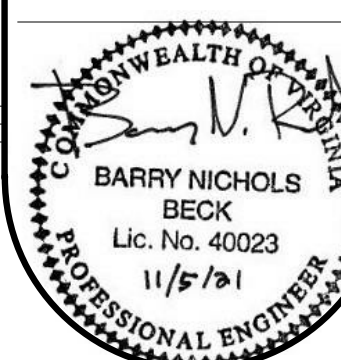


LEWISGALE HOSPITAL MONTGOMERY

SURGERY EXPANSION & RENOVATION  
3700 S. MAIN ST, BLACKSBURG, VA 24060  
HCA# 344100009  
GT# 3749300

VENDOR INFORMATION

STEEL: HANSON STEEL & SUPPLY  
ELECTRICAL: HANSON STEEL & SUPPLY  
PLUMBING/MEDICAL: HANSON STEEL & SUPPLY  
MECHANICAL: HANSON STEEL & SUPPLY  
PAINTS & COATINGS: HANSON STEEL & SUPPLY  
GLASS & GLAZING: HANSON STEEL & SUPPLY  
FLOORING: HANSON STEEL & SUPPLY  
ELEVATOR: HANSON STEEL & SUPPLY  
STANDARD TEXTILE: CURTAIN CLIMATE  
and more from: HANSON STEEL & SUPPLY

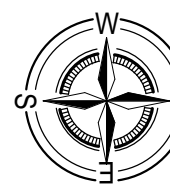
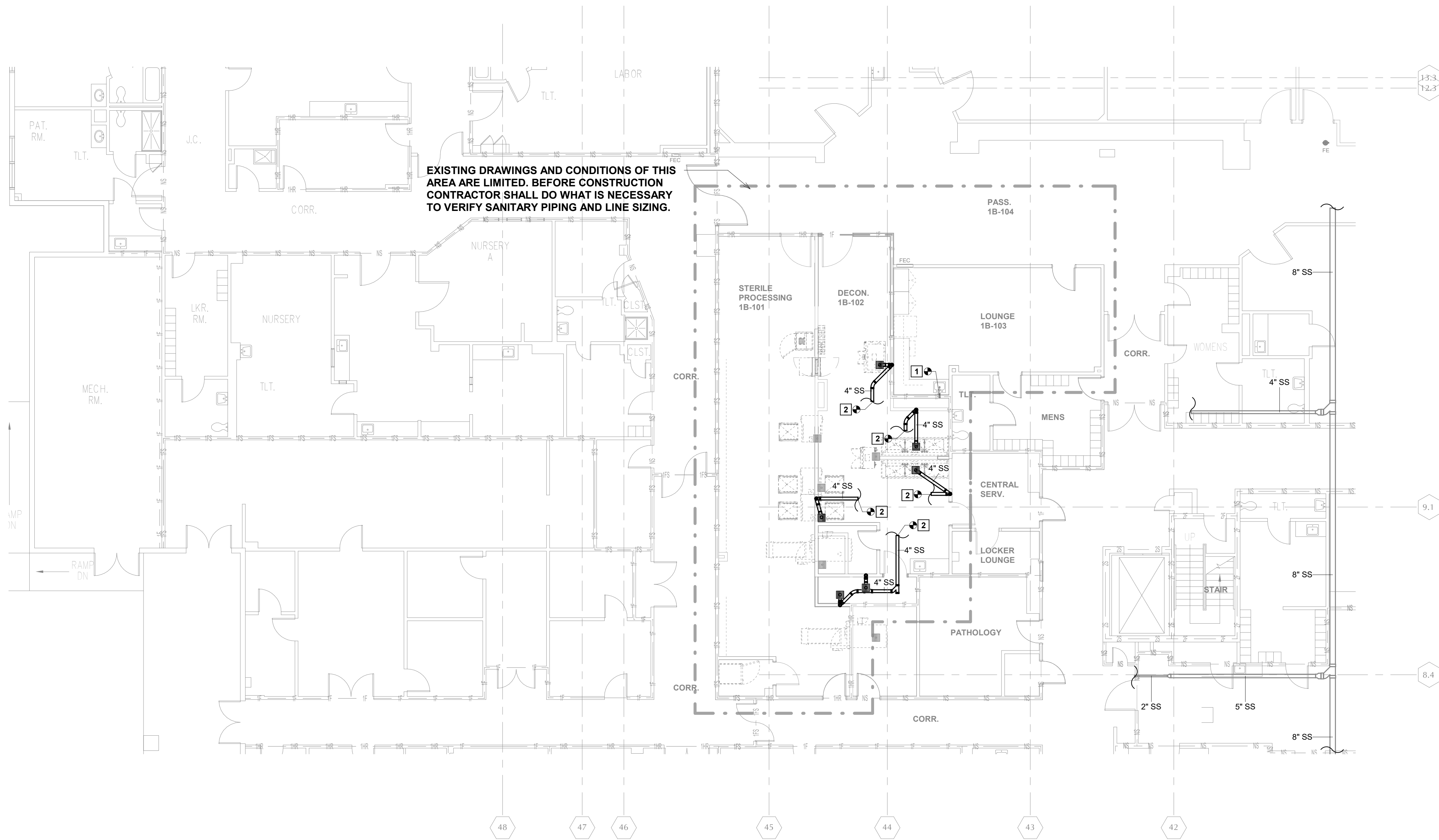


SANITARY - UNDERGROUND PLAN - A

P2.00

RESPONSIBILITY: MMW 10/02/21  
CHECKED BY: MMW 11/4/2021 1:46:40 PM

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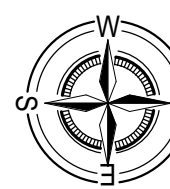
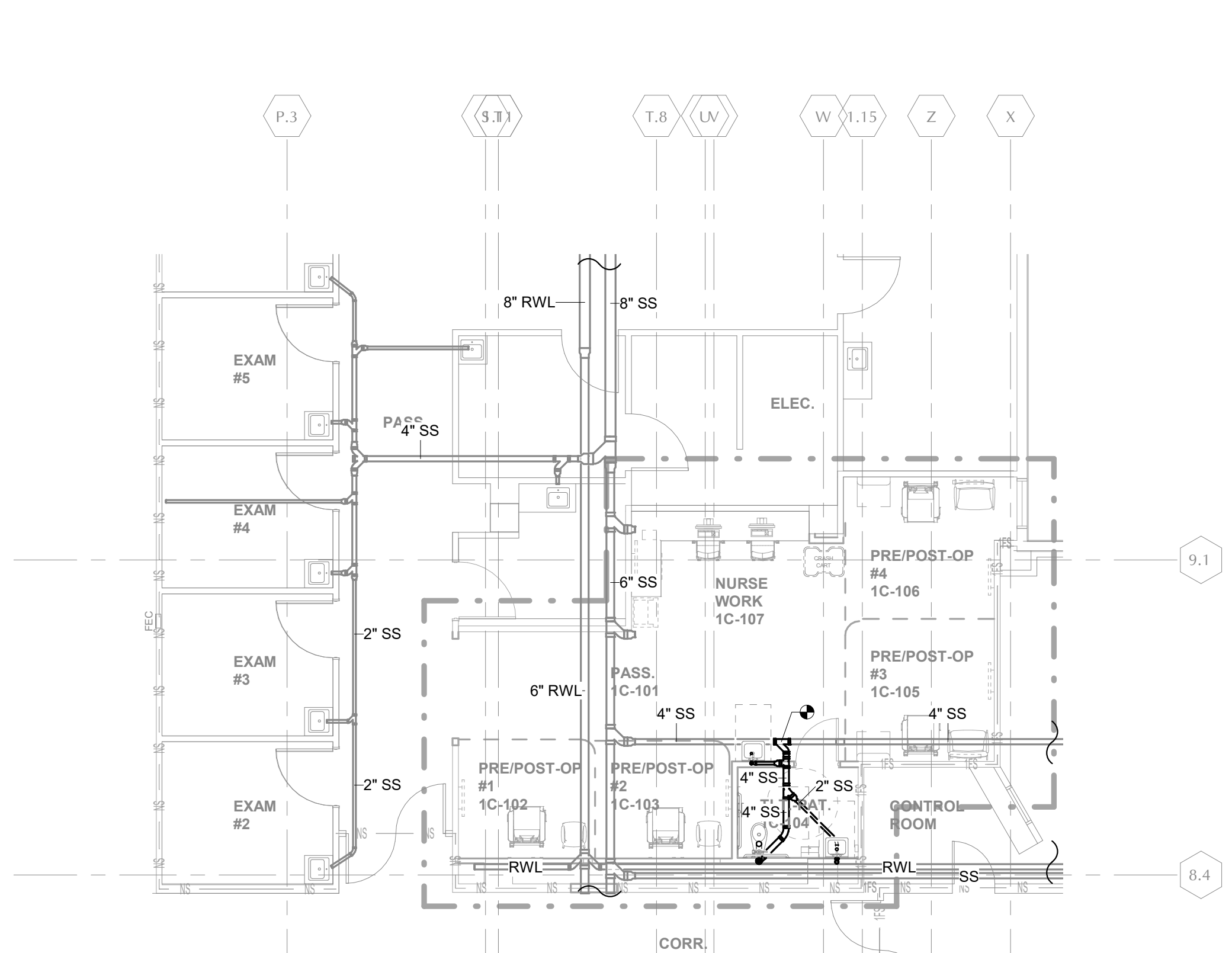


### SANITARY - UNDERGROUND - PART B

0 4' 8' 16' 24'

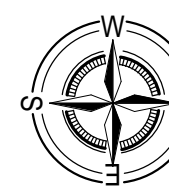
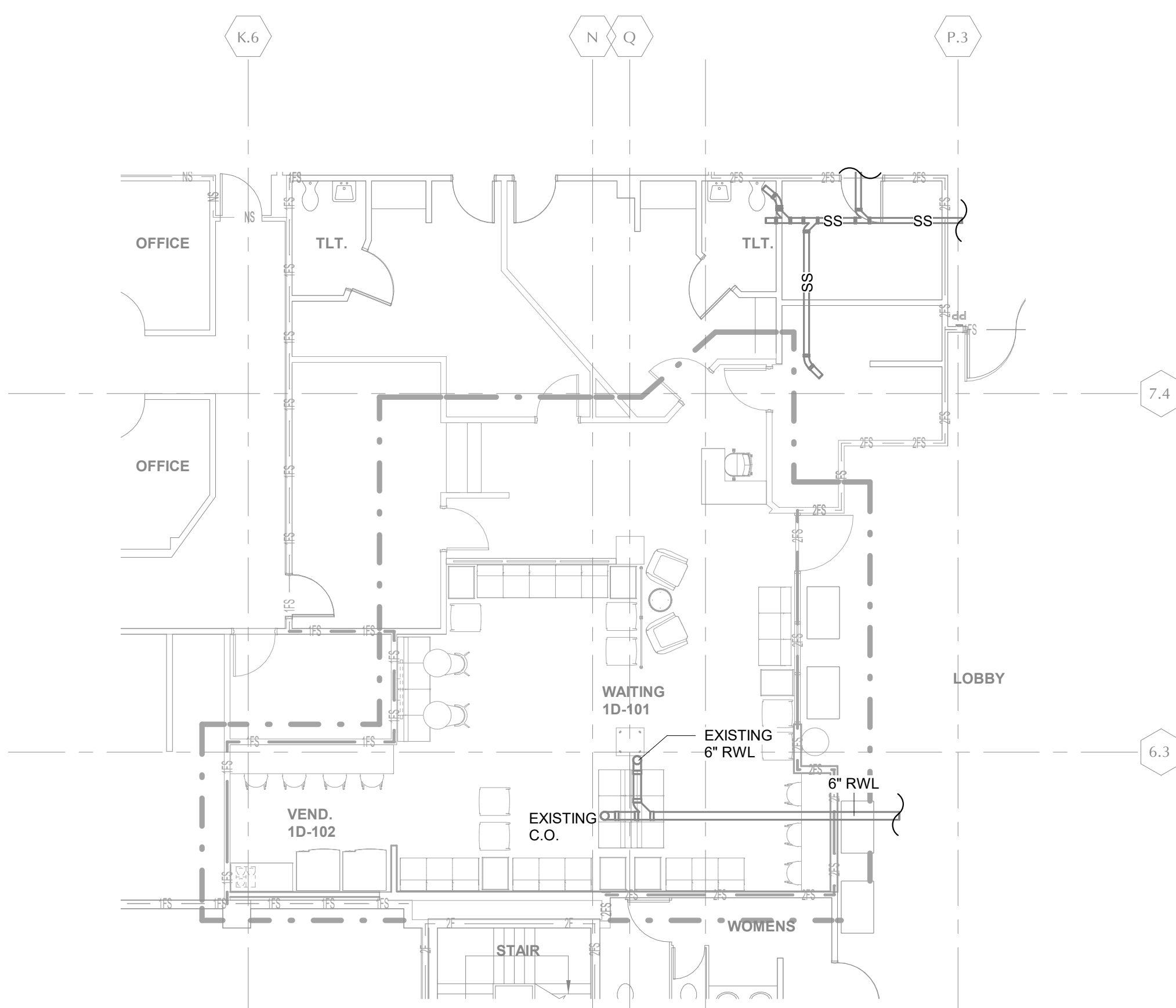
#### SANITARY PLAN NOTES:

- REWORK EXISTING SANITARY TO ACCEPT NEW PLUMBING FIXTURE.
- CONTRACTOR TO EXTEND NEW 4" CAST IRON SANITARY LINE TO EXISTING UNDERGROUND SANITARY IN THE AREA. FIELD VERIFY EXACT LOCATION AND SIZE OF UNDERGROUND MAINS. PROVIDE FIELD DRAWING TO ENGINEER BEFORE CONNECTING NEW RUN/OUT. PROVIDE MINIMUM 12'-0" OF 4" PIPING FROM NEW DRAIN TO TIE-IN LOCATION OF EXISTING UNDERGROUND MAIN.



### SANITARY - UNDERGROUND - PART C

0 4' 8' 16' 24'



### SANITARY - UNDERGROUND - PART D

0 4' 8' 16' 24'

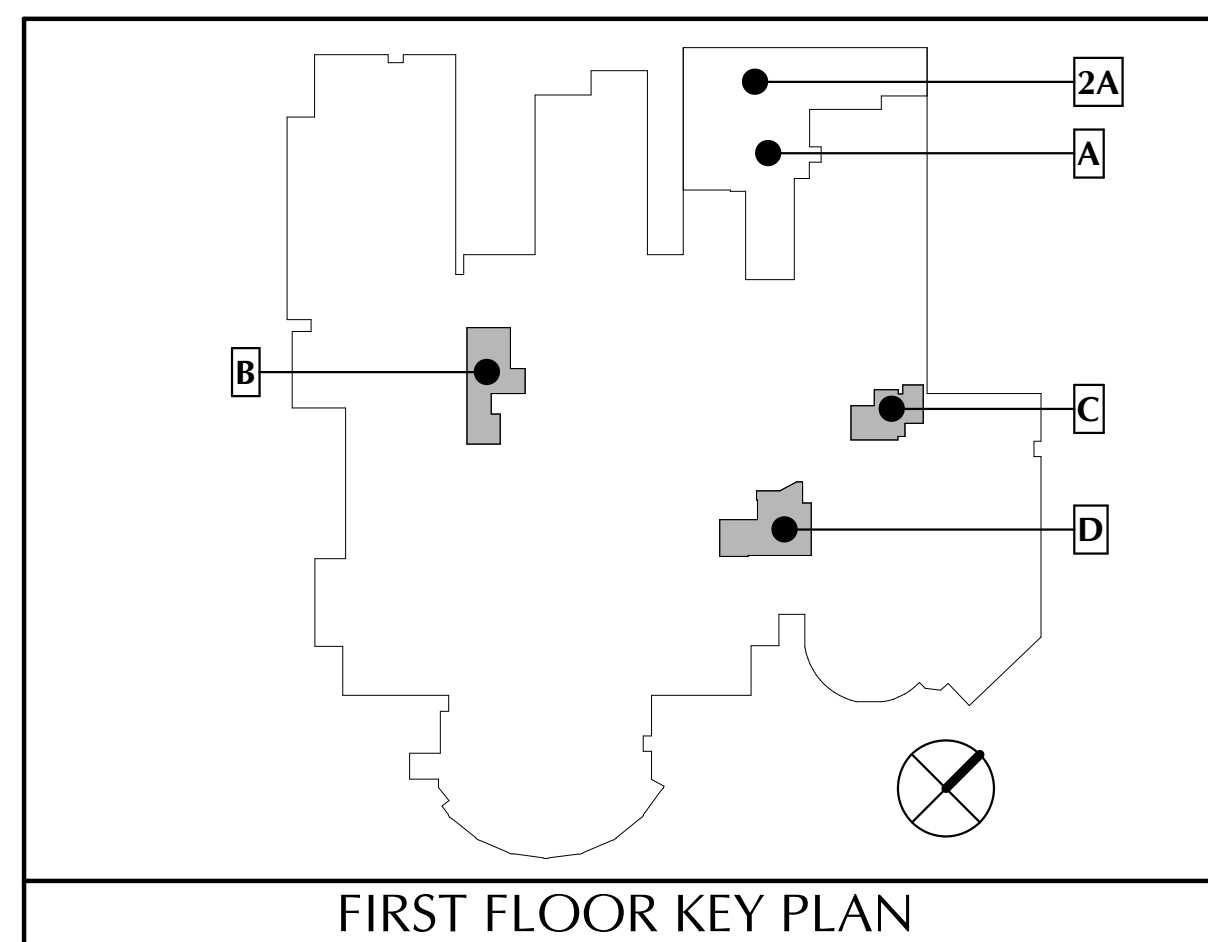
PARTITION LEGEND - SEE SHEET A4.01			
HIGHEST PRIORITY	1	TWO HOUR RATED FIRE BARRIER - SHAFTHALL	2S 2S 2S
	2	TWO HOUR RATED FIRE & SMOKE BARRIER	2FS 2FS 2FS
	3	TWO HOUR RATED FIRE BARRIER	2F 2F 2F
	4	ONE HOUR RATED FIRE BARRIER	1F 1F 1F
	5	ONE HOUR RATED FIRE & SMOKE BARRIER	1FS 1FS 1FS
	6	ONE HOUR RATED FIRE BARRIER - (INCIDENTAL USE/HAZARDOUS AREA)	1HR 1HR 1HR
	7	SMOKE PARTITION	NS NS NS
LOWEST PRIORITY	8	PARTITION TO CEILING - STUDS TO DECK, STOP GYPSUM BOARD 4" ABOVE CEILING.	

#### GENERAL NOTES:

- CONTRACTOR SHALL CUT EXISTING FLOOR SLAB FOR WASTE LINE INSTALLATION AS REQUIRED. PATCH FLOOR TO MATCH EXISTING.

#### NEW WORK LEGEND

EXISTING TO REMAIN  
NEW CONSTRUCTION



#### FIRST FLOOR KEY PLAN



HCA DESIGN MANAGER:  
MICAL MAHLE

HCA CONSTRUCTION MANAGER:  
RYAN MCCULLURE

CIVIL CONSULTANT  
RIMLEY HORN AND ASSOCIATES, INC.  
214 OCEANSIDE DR.  
NASHVILLE, TN 37204  
MANAGER: CHRIS TREES

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MANAGER: TERRY HENDER

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CONSTRUCTION DOCUMENTS

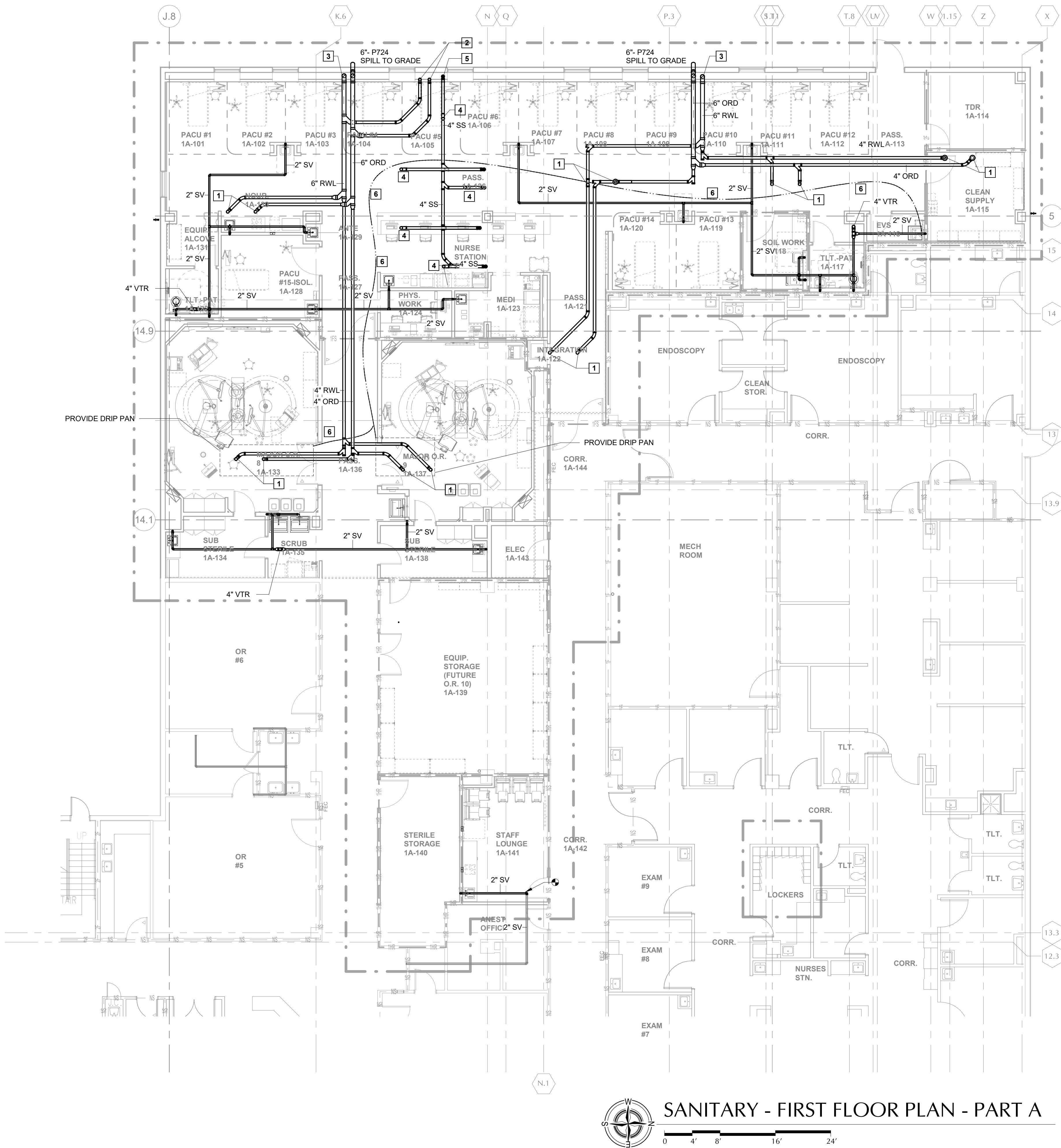
REVISIONS:

DATE:  
11/05/2021

SANITARY - UNDERGROUND PLAN - B,C,D

P2.01



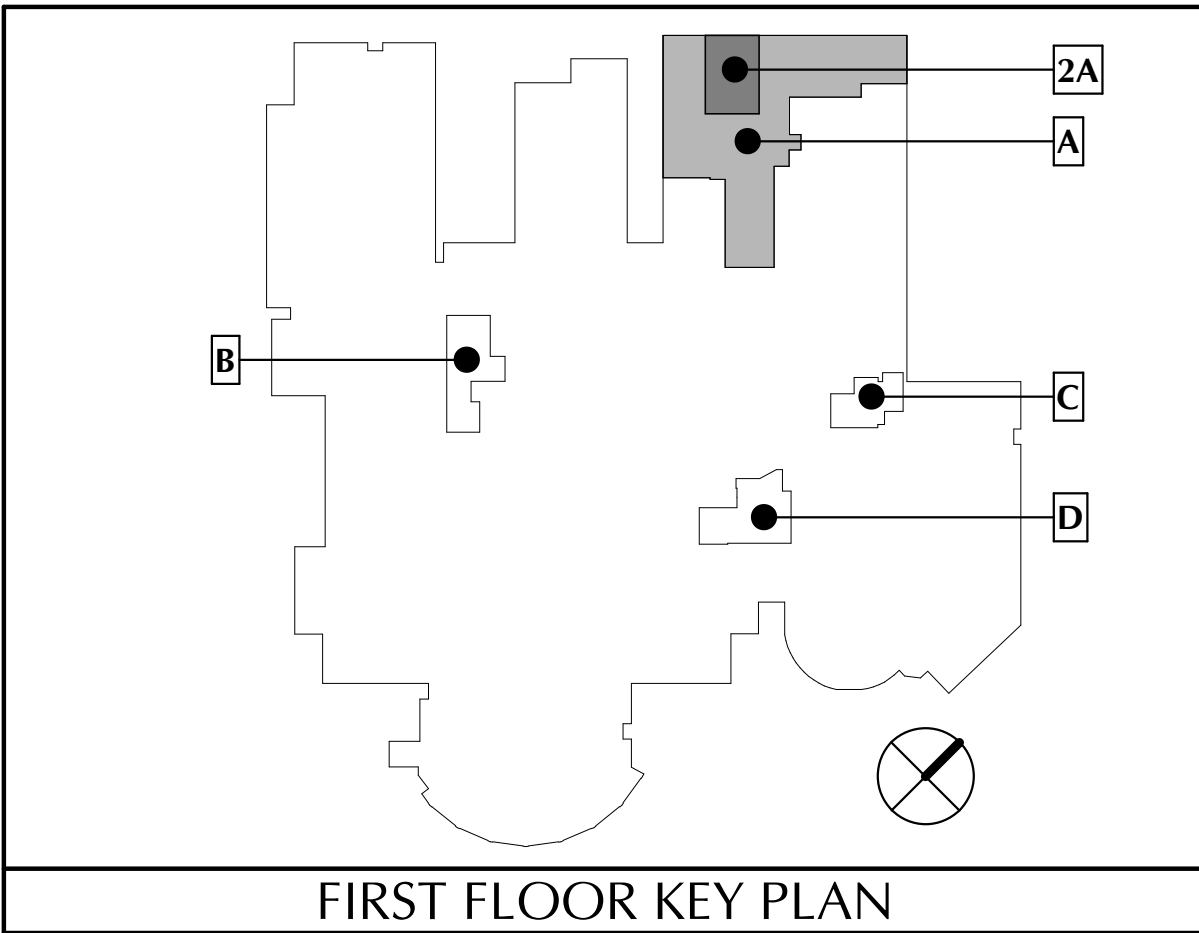


**SANITARY - FIRST FLOOR PLAN - PART A**

PARTITION LEGEND			- SEE SHEET A4.01
<div>HIGHEST PRIORITY</div> <div>↑</div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> 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- SANITARY PLAN NOTES:**
- 4\"/>
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  - 6\"/>
  - 4\"/>
  - 4\"/>
  - 3/4\"/>

NEW WORK LEGEND	
	EXISTING TO REMAIN
	NEW CONSTRUCTION



**GENERAL CONTRACTORS**  
BRASFIELD & GORRIE

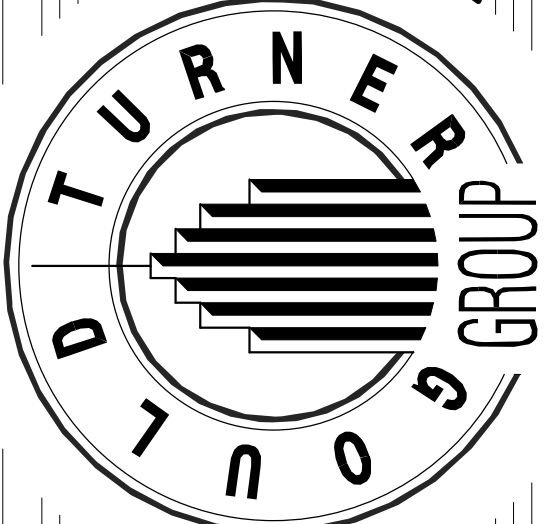
**M,P,E & T CONSULTANT**  
L.C. THOMASSON ASSOCIATES, INC.  
2950 KRAFT DRIVE  
NASHVILLE, TN 37204  
MANAGER: TERRY WATKINS

**STRUCTURAL CONSULTANT**  
STANLEY D. LINDSEY & ASSOCIATES, LTD.  
750 OLD HICKORY BLVD. BLDG. 1 STE. 175  
BIRMINGHAM, TN 37207  
MANAGER: TERRY WATKINS

**CIVIL CONSULTANT**  
RIMLEY HORN AND ASSOCIATES, INC.  
214 OCEANSIDE DR.  
NASHVILLE, TN 37204  
MANAGER: CHRIS FRIES

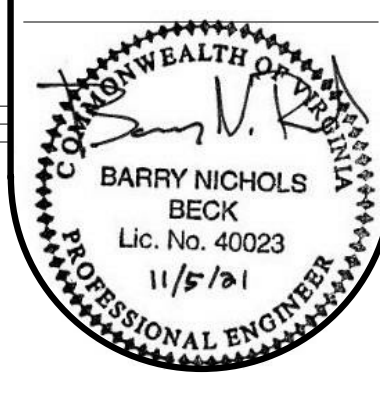
**HCA Healthcare**  
**HCA DESIGN MANAGER:**  
MICHAEL MAUL  
**HCA CONSTRUCTION MANAGER:**  
RYAN MCCLURE

**GOULD TURNER GROUP, P.C.**  
ARCHITECTURE  
615 3RD AVE SOUTH, SUITE 700  
NASHVILLE, TENNESSEE 37210  
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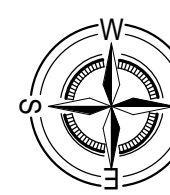
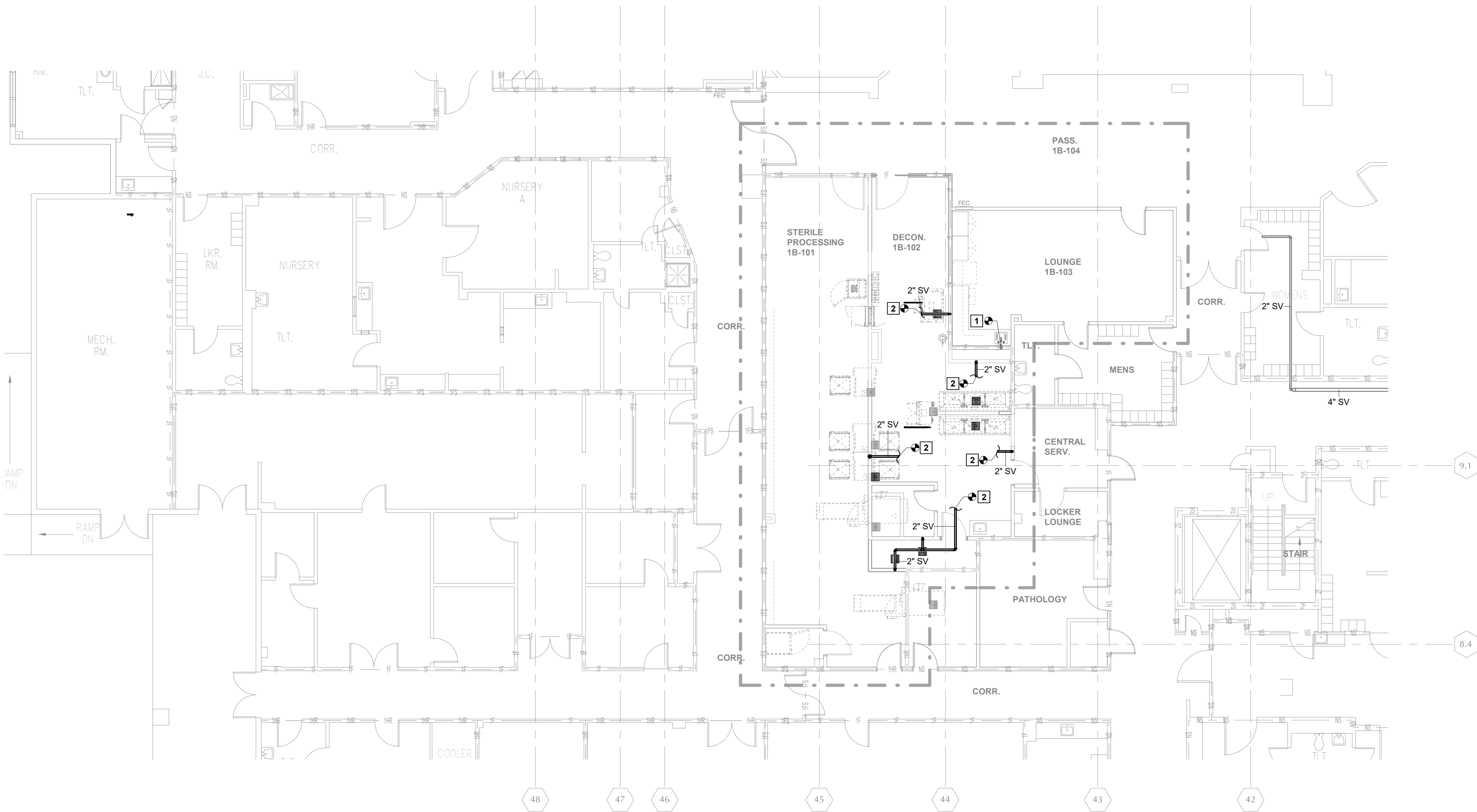
**LEWISGALE HOSPITAL MONTGOMERY**  
SURGERY EXPANSION & RENOVATION  
3700 S. MAIN ST., BLACKSBURG, VA 24060  
HCA# 344100009  
GT# 3749300

**VENDOR INFORMATION**  
STEEL: BURGESS STEEL & CO. EQUIP.  
ELECTRICAL: BURGESS STEEL & CO. EQUIP.  
PLUMBING: BURGESS STEEL & CO. EQUIP.  
MECHANICAL: BURGESS STEEL & CO. EQUIP.  
PAINTS & COATINGS: BURGESS STEEL & CO. EQUIP.  
GLASS: BURGESS STEEL & CO. EQUIP.  
FLOORING: BURGESS STEEL & CO. EQUIP.  
ROOFING: BURGESS STEEL & CO. EQUIP.  
CONCRETE: BURGESS STEEL & CO. EQUIP.  
FOUNDATION: BURGESS STEEL & CO. EQUIP.  
STRUCTURAL: BURGESS STEEL & CO. EQUIP.  
MECHANICAL: BURGESS STEEL & CO. EQUIP.  
ELECTRICAL: BURGESS STEEL & CO. EQUIP.  
PAINTS & COATINGS: BURGESS STEEL & CO. EQUIP.  
GLASS: BURGESS STEEL & CO. EQUIP.  
FLOORING: BURGESS STEEL & CO. EQUIP.  
ROOFING: BURGESS STEEL & CO. EQUIP.  
CONCRETE: BURGESS STEEL & CO. EQUIP.  
FOUNDATION: BURGESS STEEL & CO. EQUIP.  
STRUCTURAL: BURGESS STEEL & CO. EQUIP.



RESPONSIBILITY: MAMU TMDZ21  
CHECKED BY: MAMU  
DATE:

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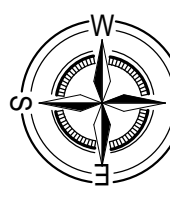
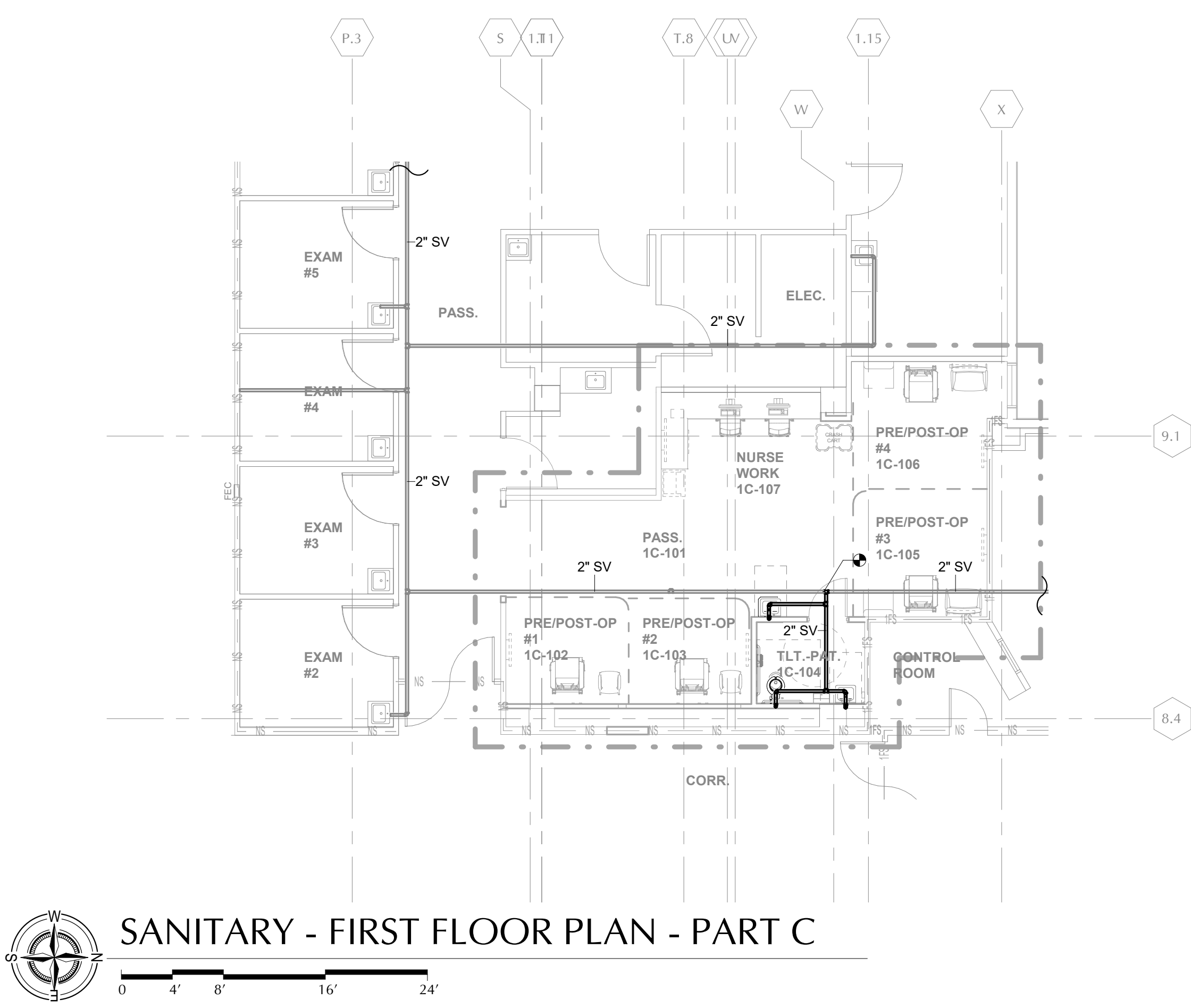


### SANITARY - FIRST FLOOR PLAN - PART B

0 4' 8' 16' 24'

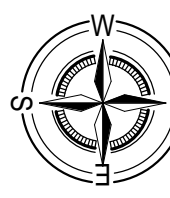
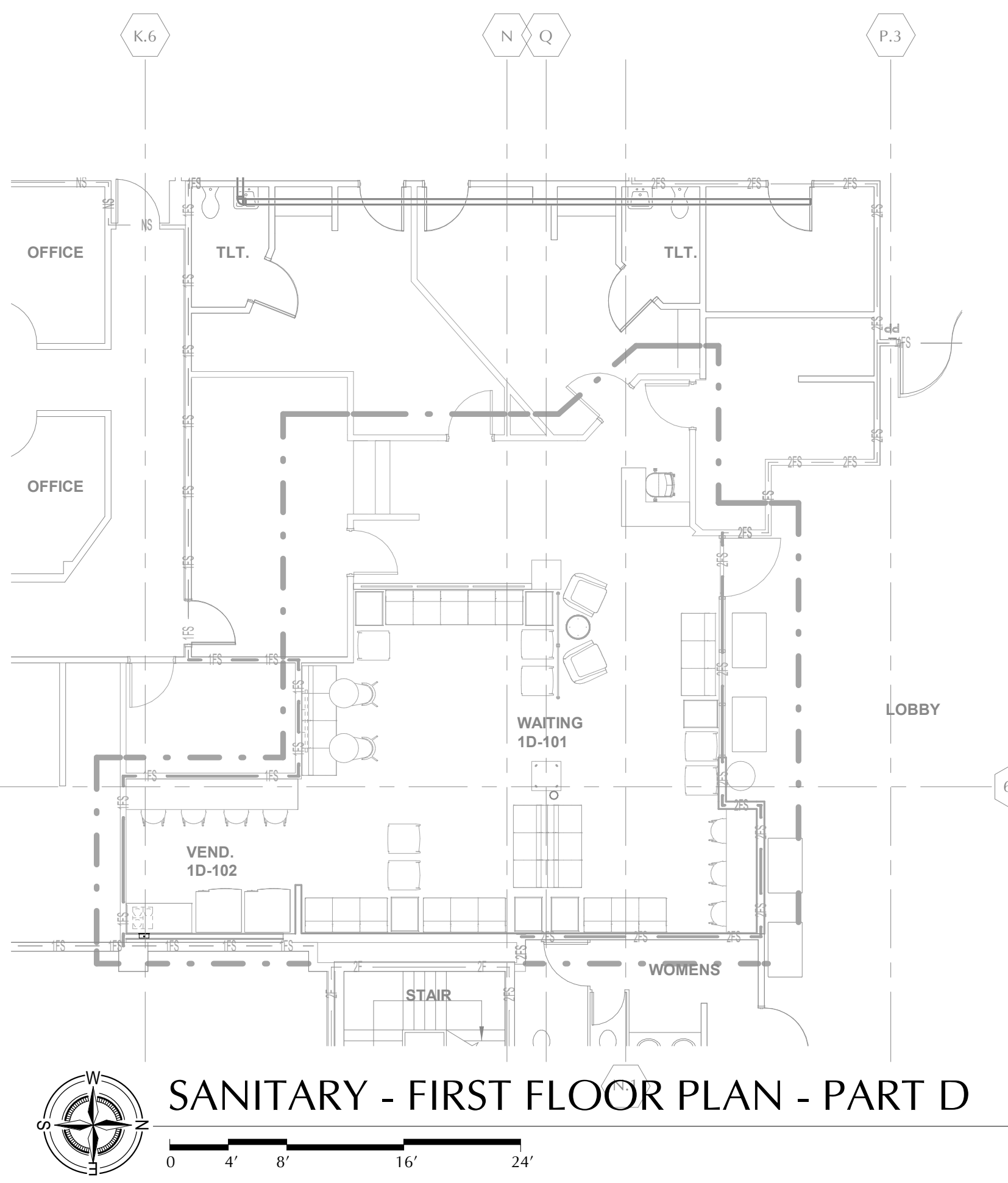
#### SANITARY PLAN NOTES:

1. REWORK EXISTING SANITARY VENT TO ACCEPT NEW PLUMBING FIXTURE.
2. CONTRACTOR TO EXTEND NEW 2" SANITARY VENT LINE TO EXISTING SANITARY VENT IN THE AREA. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING MAINS. PROVIDE FIELD DRAWING TO ENGINEER BEFORE CONNECTING NEW RUNNOUT.



### SANITARY - FIRST FLOOR PLAN - PART C

0 4' 8' 16' 24'



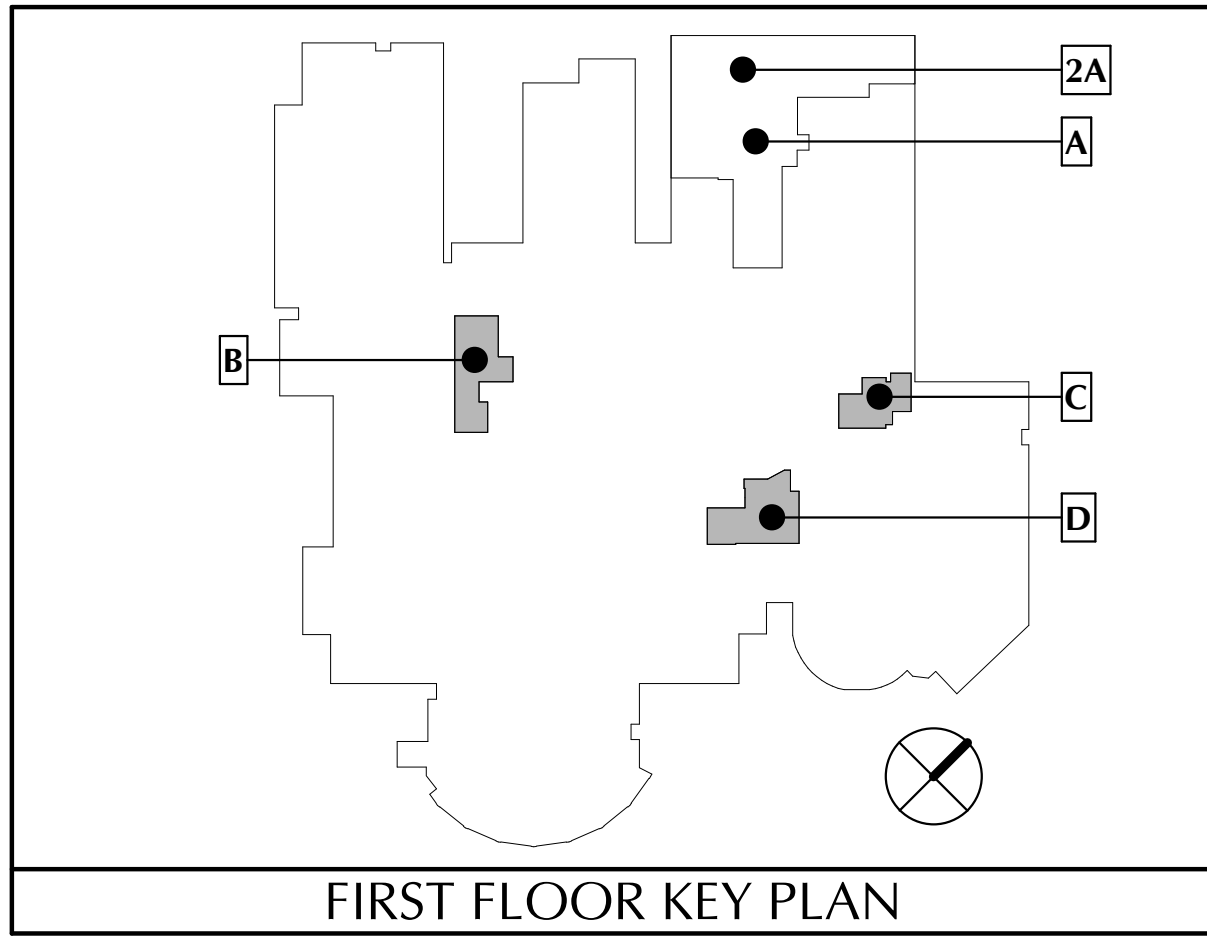
### SANITARY - FIRST FLOOR PLAN - PART D

0 4' 8' 16' 24'

PARTITION LEGEND - SEE SHEET A4.01			
HIGHEST PRIORITY	1	TWO HOUR RATED FIRE BARRIER - SHAFTWALL	2S 2S 2S
	2	TWO HOUR RATED FIRE & SMOKE BARRIER	2FS 2FS 2FS
	3	TWO HOUR RATED FIRE BARRIER	2F 2F 2F
	4	ONE HOUR RATED FIRE BARRIER	1F 1F 1F
	5	ONE HOUR RATED FIRE & SMOKE BARRIER	1FS 1FS 1FS
	6	ONE HOUR RATED FIRE BARRIER - (INCIDENTAL USE/HAZARDOUS AREA)	1HR 1HR 1HR
	7	SMOKE PARTITION	NS NS NS
LOWEST PRIORITY	8	PARTITION TO CEILING - STUDS TO DECK, STOP GYPSUM BOARD 4" ABOVE CEILING.	

#### NEW WORK LEGEND

EXISTING TO REMAIN  
NEW CONSTRUCTION



GENERAL CONTRACTORS

BRASFIELD & GORRIE

M.P.E. & T. CONSULTANT

L.C. THOMASSON ASSOCIATES, INC.  
2950 KRAFT DRIVE  
NASHVILLE, TN 37204  
MANAGER: THOMASSON

STRUCTURAL CONSULTANT

STANLEY D. LINDSEY & ASSOCIATES, LTD.  
750 OLD HICKORY BLVD. BLDG. 1 STE. 175  
BIRMINGHAM, TN 37207  
MANAGER: LINDSEY

CIVIL CONSULTANT

RIMLEY HORN AND ASSOCIATES, INC.  
214 OCEANVIEW DR.  
NASHVILLE, TN 37204  
MANAGER: CHAD HORN

HCA  
HCA HEALTHCARE  
HCA DESIGN MANAGER:  
MICAL MAHLE  
HCA CONSTRUCTION MANAGER:  
RYAN MCCULLURE

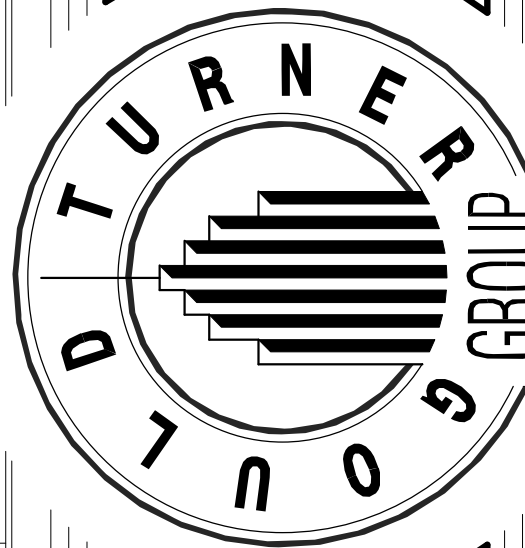
REVISIONS:

CONSTRUCTION  
DOCUMENTS

GOULD TURNER GROUP, P.C.

ARCHITECTURE  
615 3RD AVE SOUTH, SUITE 700  
NASHVILLE, TENNESSEE 37210  
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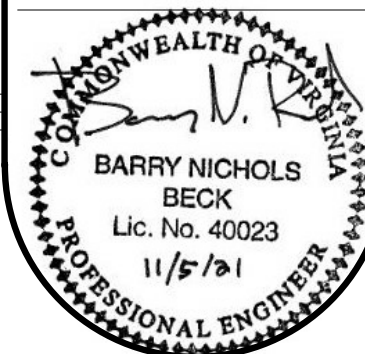
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11/05/2021



Architects - Planners - Interiors

LEWISGALE HOSPITAL MONTGOMERY

SURGERY EXPANSION & RENOVATION  
3700 S. MAIN ST, BLACKSBURG, VA 24060  
HCA# 344100009  
GT# 3749300

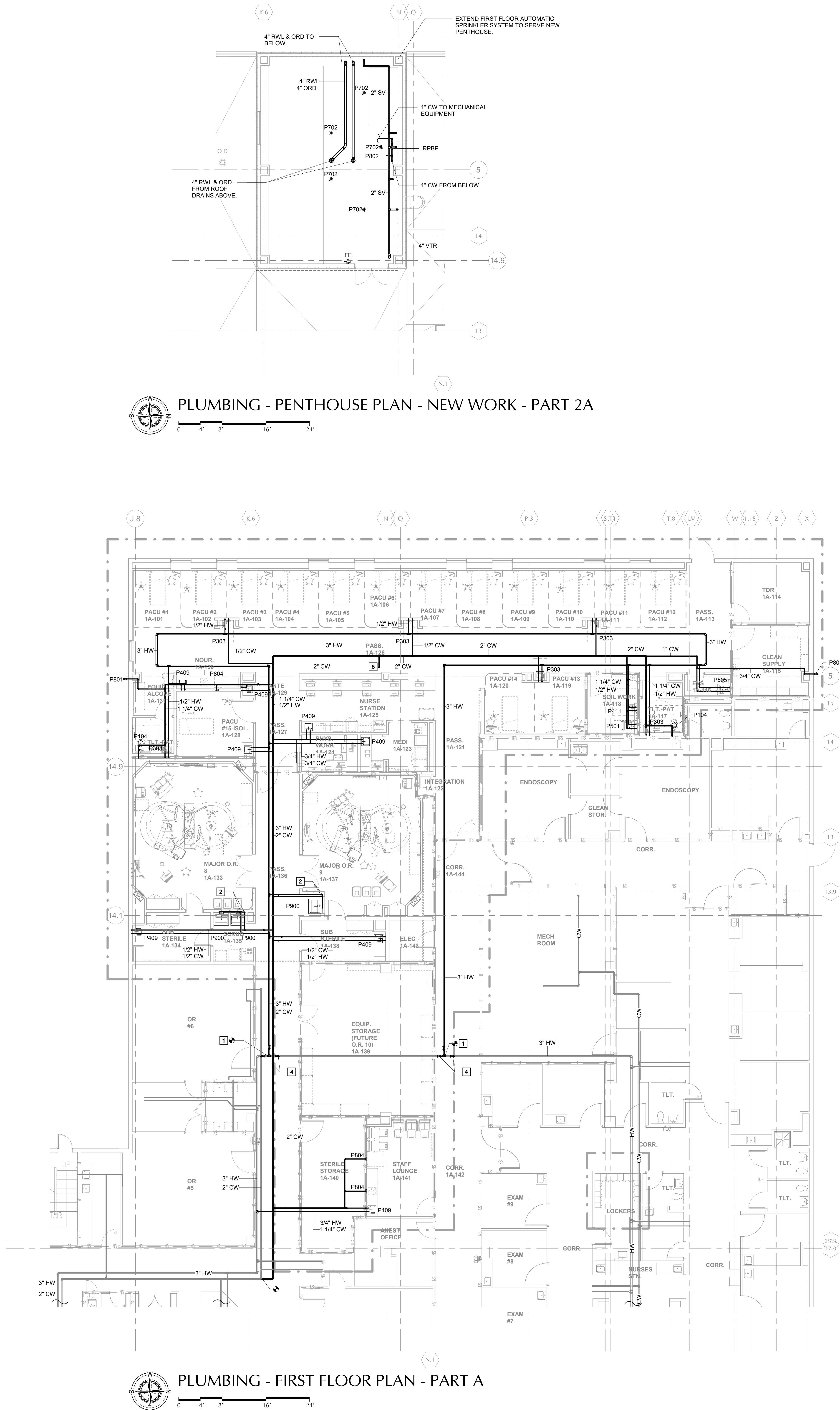


SANITARY - 1ST FLOOR  
PLAN - B,C,D  
**P2.03**



RESPONSIBILITY: MAXW LINDSEY  
CHECKED BY: DATE

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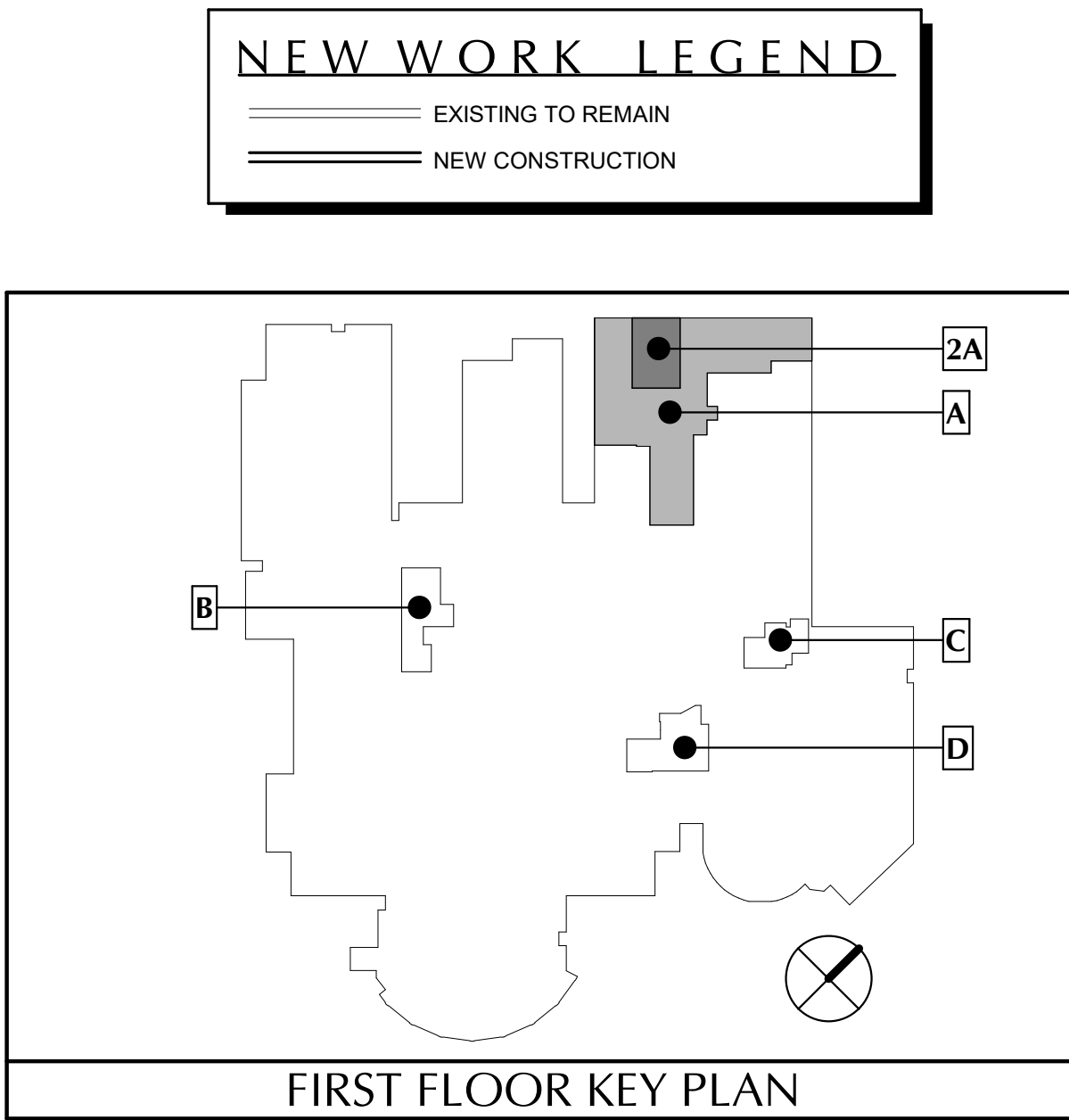


PLUMBING - PENTHOUSE PLAN - NEW WORK - PART 2A

PLUMBING - FIRST FLOOR PLAN - PART A

PARTITION LEGEND - SEE SHEET A4.01			
HIGHEST PRIORITY ↑	1	TWO HOUR RATED FIRE BARRIER - SHAFTWALL	2S 2S 2S
	2	TWO HOUR RATED FIRE & SMOKE BARRIER	2FS 2FS 2FS
	3	TWO HOUR RATED FIRE BARRIER	2F 2F 2F
	4	ONE HOUR RATED FIRE BARRIER	1F 1F 1F
	5	ONE HOUR RATED FIRE & SMOKE BARRIER	1FS 1FS 1FS
	6	ONE HOUR RATED FIRE BARRIER - (INCIDENTAL USE/HAZARDOUS AREA)	1HR 1HR 1HR
	7	SMOKE PARTITION	NS NS NS
	8	PARTITION TO CEILING - STUDS TO DECK, STOP GYPSUM BOARD 4" ABOVE CEILING.	
LOWEST PRIORITY ↓			

- PLUMBING NOTES:
- CONNECT TO NEW 3" HW TO EXISTING 3" HW AND EXTEND LOOP TO ACCOMMODATE NEW CONSTRUCTION.
  - EXTEND 1/2" CW & 1/2" HW PIPING DOWN IN WALL AND BELOW WINDOW TO SCRUB SINK.
  - NOT USED.
  - PROVIDE SERVICE VALVES.
  - 1" CW TO PENTHOUSE ABOVE.



**GENERAL CONTRACTORS**  
BRASFIELD & GORRIE

**STRUCTURAL CONSULTANT**  
STANLEY D. LINDSEY & ASSOCIATES, LTD.  
750 OLD HICKORY BLVD. BLDG. 1 STE. 175  
NASHVILLE, TN 37204  
MANAGER: TERRY HARTER

**CIVIL CONSULTANT**  
RIMLEY HORN AND ASSOCIATES, INC.  
214 OCEANSIDE DR.  
NASHVILLE, TN 37204  
MANAGER: CHRIS TREES

**HCA Healthcare**  
HCA DESIGN MANAGER:  
MICHAEL MAUL  
HCA CONSTRUCTION MANAGER:  
RYAN MCCLURE

**M.P.E. & T. CONSULTANT**  
L.C. THOMASSON ASSOCIATES, INC.  
2950 KRAFT DRIVE  
NASHVILLE, TN 37204  
MANAGER: TERRY HARTER

**LEWISGALE HOSPITAL MONTGOMERY**  
SURGERY EXPANSION & RENOVATION  
3700 S. MAIN ST., BLACKSBURG, VA 24060  
HCA# 344100009  
GT# 3749300

**VENDOR INFORMATION**  
FLOOR: SURGICAL REPAIR & RENOVATION  
PROJECT: SURGICAL REPAIR & RENOVATION  
GENERAL CONTRACTOR: BRASFIELD & GORRIE  
ARCHITECT: GOULD TURNER GROUP, P.C.  
MECHANICAL/ELECTRICAL/PLUMBING: HCA  
GENERAL CONTRACTOR: BRASFIELD & GORRIE  
ARCHITECT: GOULD TURNER GROUP, P.C.  
MECHANICAL/ELECTRICAL/PLUMBING: HCA

**REVISIONS:**

**GOULD TURNER GROUP, P.C.**  
ARCHITECTURE  
615 3RD AVE SOUTH, SUITE 700  
NASHVILLE, TENNESSEE 37210  
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**DATE:**  
11/05/2021

**Architects - Planners - Interiors**

**PROFESSIONAL ENGINEER**  
BARRY NICHOLS  
Lic. No. 40023  
11/5/91

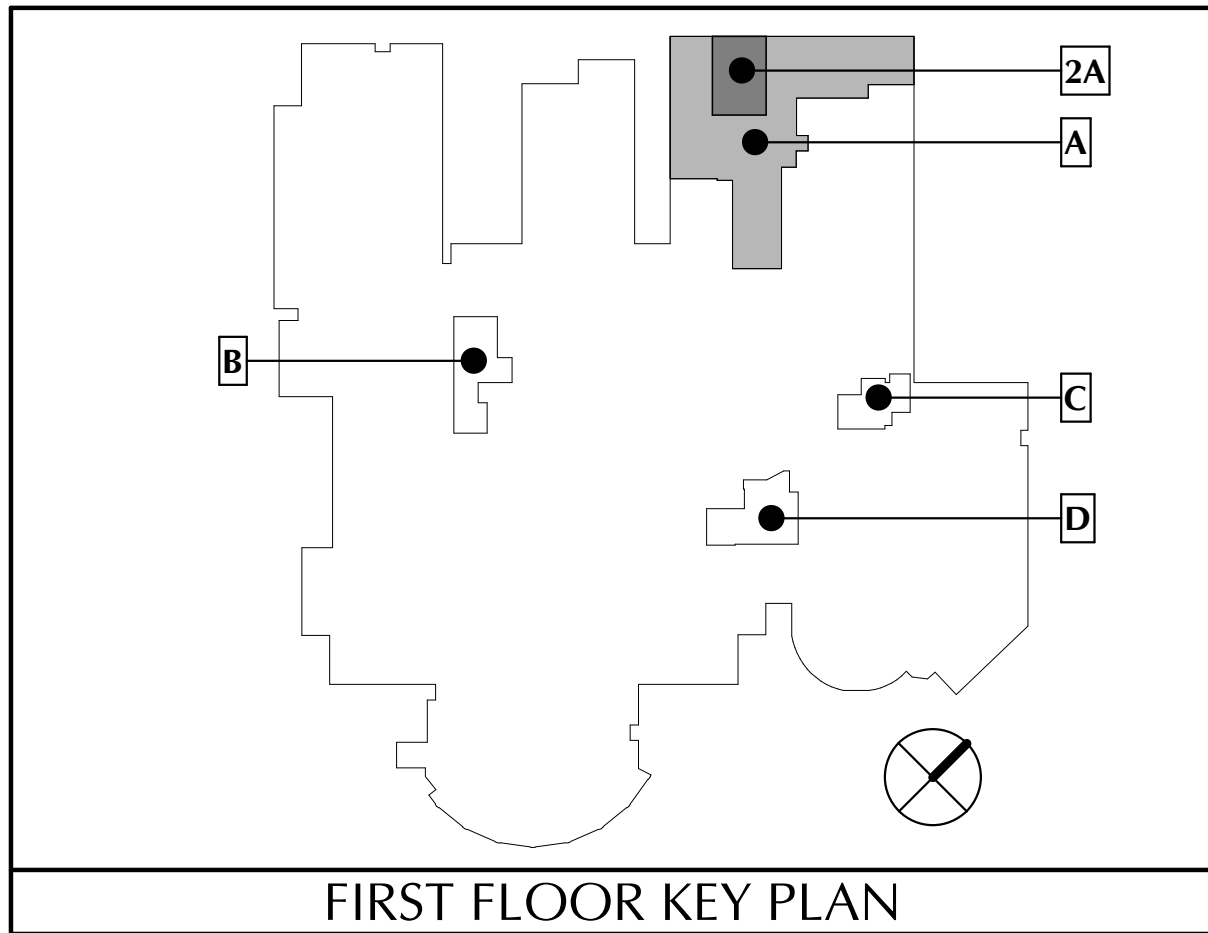
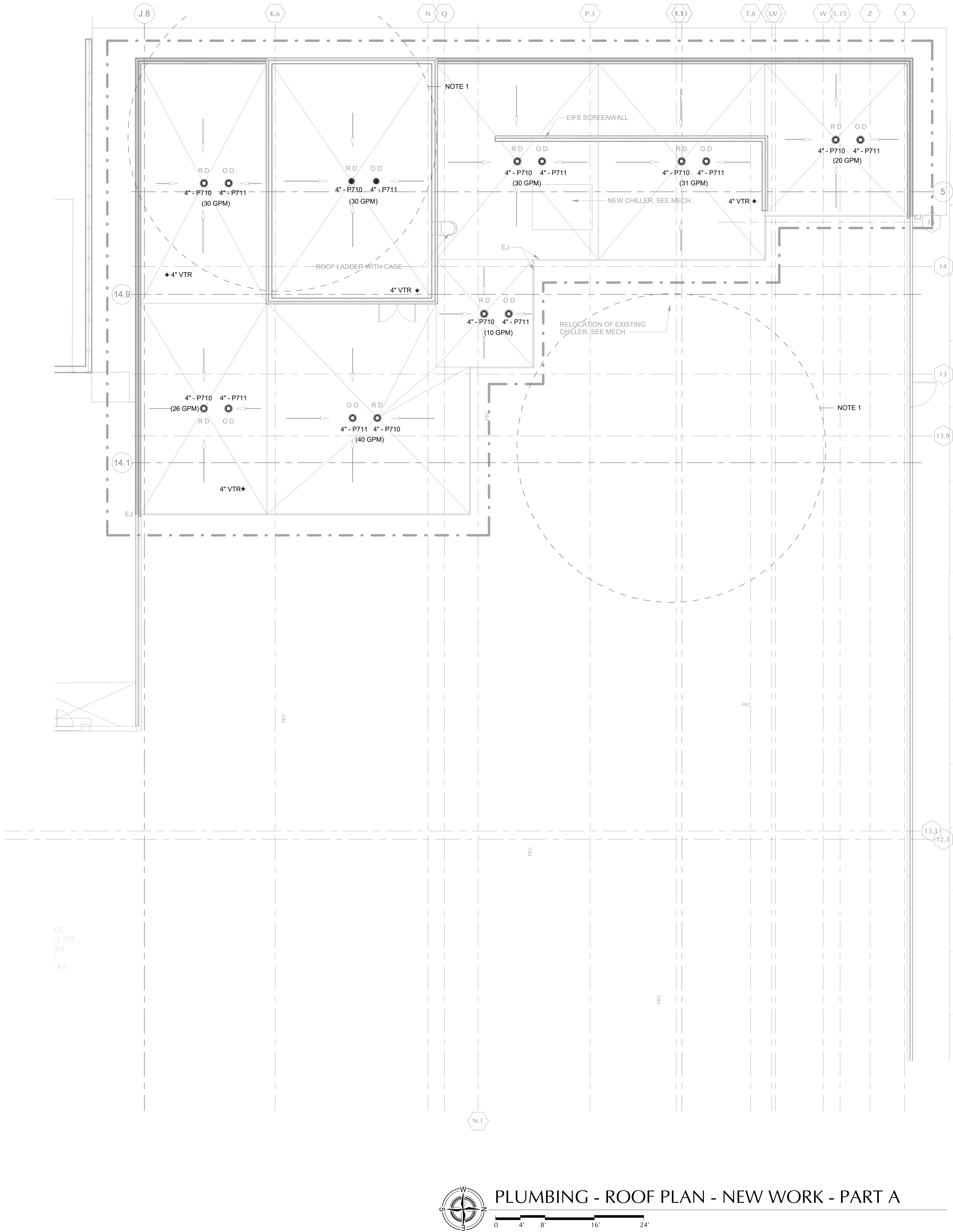
**PLUMBING - 1ST FLOOR PLAN - A**  
**P3.01**





RESPONSIBILITY: MMW | 10/06/21  
CHECKED BY: MMW | 10/06/21

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GENERAL NOTES:  
1. MAINTAIN MINIMUM 25FT CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND VENT THRU ROOF (VTR).

PARTITION LEGEND - SEE SHEET A4.01			
HIGHEST PRIORITY ↑	1	TWO HOUR RATED FIRE BARRIER - SHAFTWALL	2S == 2S == 2S
	2	TWO HOUR RATED FIRE & SMOKE BARRIER	2FS == 2FS == 2FS
	3	TWO HOUR RATED FIRE BARRIER	2F == 2F == 2F
	4	ONE HOUR RATED FIRE BARRIER	1F == 1F == 1F
	5	ONE HOUR RATED FIRE & SMOKE BARRIER	1FS == 1FS == 1FS
	6	ONE HOUR RATED FIRE BARRIER - (INCIDENTAL USE-HAZARDOUS AREA)	1HR == 1HR == 1HR
	7	SMOKE PARTITION	NS == NS == NS
LOWEST PRIORITY ↓	8	PARTITION TO CEILING - STUDS TO DECK, STOP GYPSUM BOARD 4\"/>	

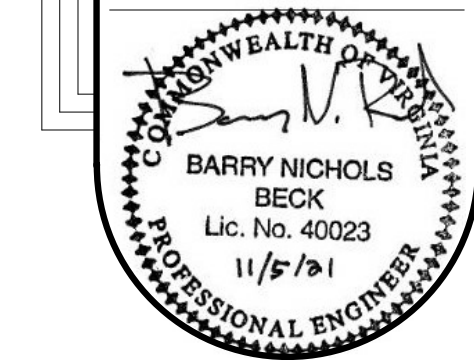
**HCA**  
Healthcare  
HCA DESIGN MANAGER:  
MICAL MAUK  
HCA CONSTRUCTION MANAGER:  
RYAN MCCULLURE

**CIVIL CONSULTANT**  
RIMLEY HORN AND ASSOCIATES, INC.  
214 OCEANSIDE DR.  
NASHVILLE, TN 37204  
MANAGER: CHRIS HARRIS

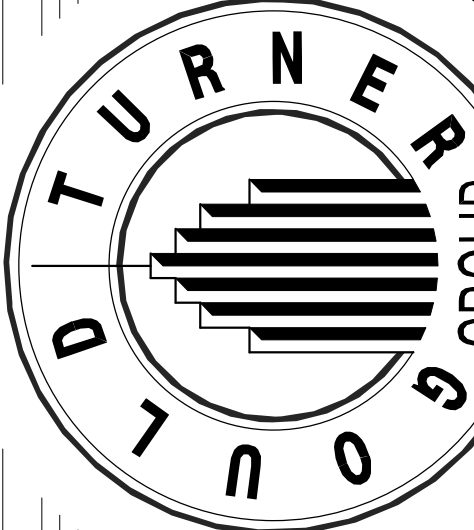
**STRUCTURAL CONSULTANT**  
STANLEY D. LINDSEY & ASSOCIATES, LTD.  
750 OLD HICKORY BLVD. BLDG. 1 STE. 175  
BRENTWOOD, TN 37027  
MANAGER: TERRY HENDER

**M.P.E. & T. CONSULTANT**  
L.C. THOMASSON ASSOCIATES, INC.  
2950 KRAFT DRIVE  
NASHVILLE, TN 37204  
MANAGER: TERRY HENDER

**GENERAL CONTRACTORS**  
BRASHFIELD & CORRIE



**LEWISGALE HOSPITAL MONTGOMERY**  
SURGERY EXPANSION & RENOVATION  
3700 S. MAIN ST, BLACKSBURG, VA 24060  
HCA# 344100009  
GT# 3749300

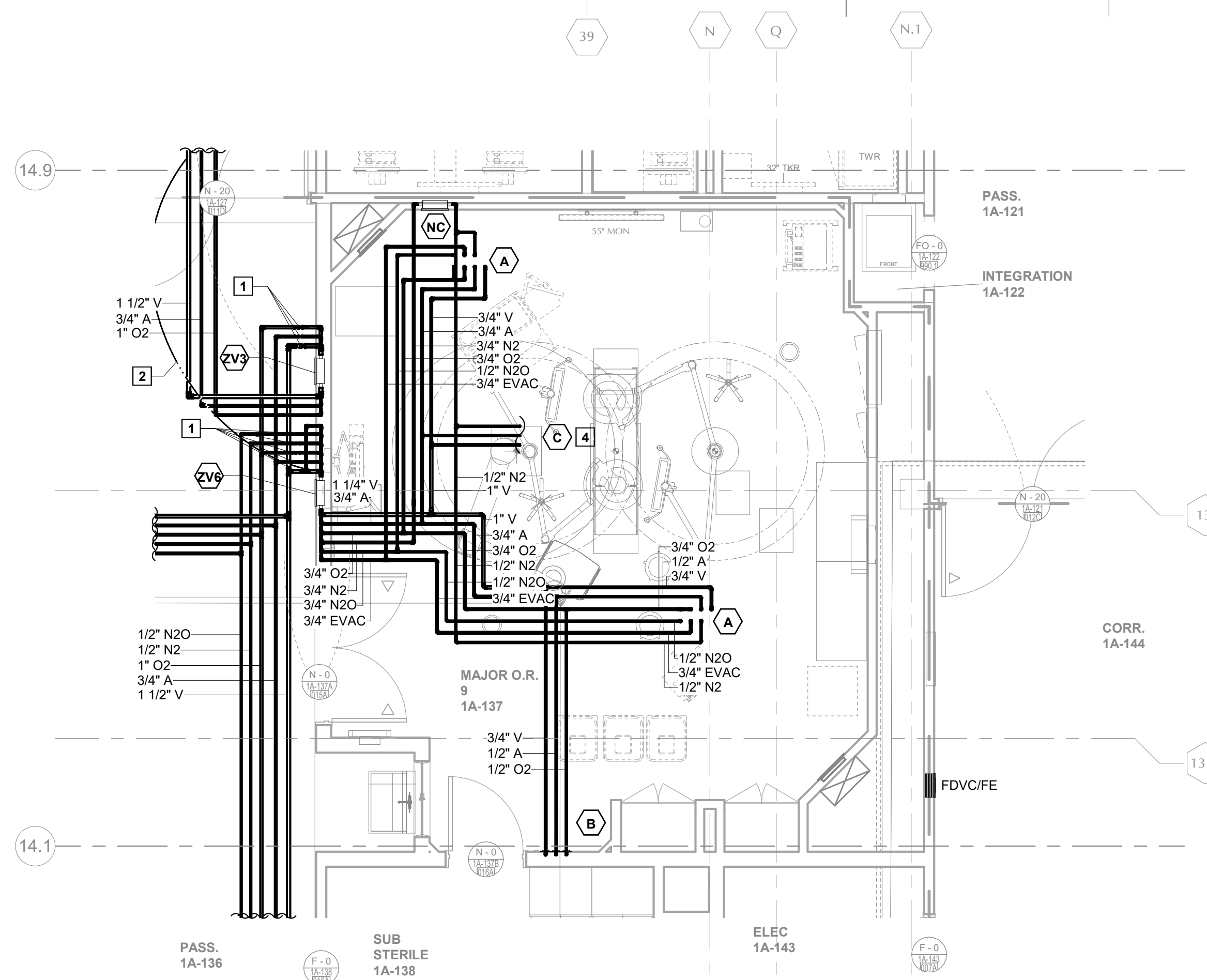


**GOULD TURNER GROUP, P.C.**  
ARCHITECTURE  
615 3RD AVE SOUTH, SUITE 700  
NASHVILLE, TENNESSEE 37210  
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REVISIONS:

**CONSTRUCTION DOCUMENTS**

DATE:  
11/05/2021



MEDICAL GAS PARK - NEW WORK

**AUTOMATIC SPRINKLER NOTES:**

1. AUTOMATIC SPRINKLER HEADS TO BE QUICK RESPONSE STANDARD COVERAGE HEADS TO ACCEPT NEW PATION LAYOUT. REFER TO ARCHITECTURAL REFLECTING CEILING PLAN FOR LIMITS OF CONSTRUCTION.
2. REFER TO SPECIFICATIONS AND TO P0.02 FOR SPRINKLER NOTES DESIGN CRITERIA.
3. PROVIDE FULLY CONCEALED SPRINKLER HEADS IN LOBBIES, WAITING ROOMS, OPERATING ROOMS AND ASSOCIATED AREAS.

- MEDICAL GAS NOTES:** ☐
1. PROVIDE SERVICE VALVES .
  2. LINE PRESSURE ALARM SENSOR WIRING.
  3. REFER TO O.R. - TYPICAL ENLARGED PLAN ON THIS SHEET.
  4. EXTEND MEDICAL GAS TO EQUIPMENT BOOM. REFER TO VENDOR FOR EXACT LOCATION

Diagram illustrating the First Floor Key Plan. The plan shows the layout of the building, including various rooms and areas. Key locations are marked with letters and numbers:

- 2A**: Located in the top right corner, near the entrance.
- A**: Located in the top right corner, near the entrance.
- B**: Located on the left side, near the entrance.
- C**: Located on the right side, near the entrance.
- D**: Located on the right side, near the entrance.

A north arrow is shown in the bottom right corner, indicating the orientation of the plan.

**FIRST FLOOR KEY PLAN**

ARCHITECTURE  
615 3RD AVE SOUTH, SUITE 700  
NASHVILLE, TENNESSEE 37210  
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DATE: 11/05/2021



**SURGERY EXPANSION & RENOVATION**  
3700 S. MAIN ST, BLACKSBURG, VA 24060  
HICAP 346100009  
GTCP# 3749300

STERIS - SURGICAL ROOMS & CSS EQUIP.  
Patrick Dwyer, Patrick.Dwyer@steris.com

QUANTUM MEDICAL - STORAGE  
Rachel Sandberg, RachelS@quantummedical.ca

AMBRANCE GROUP - ARTWORK  
Katherine Erickson, KatherineE@amburance.com

STANDARD TEXTILE - CURBLE CURTAINS  
Scott Stapleton, SStapleton@standardtextile.com





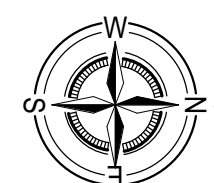
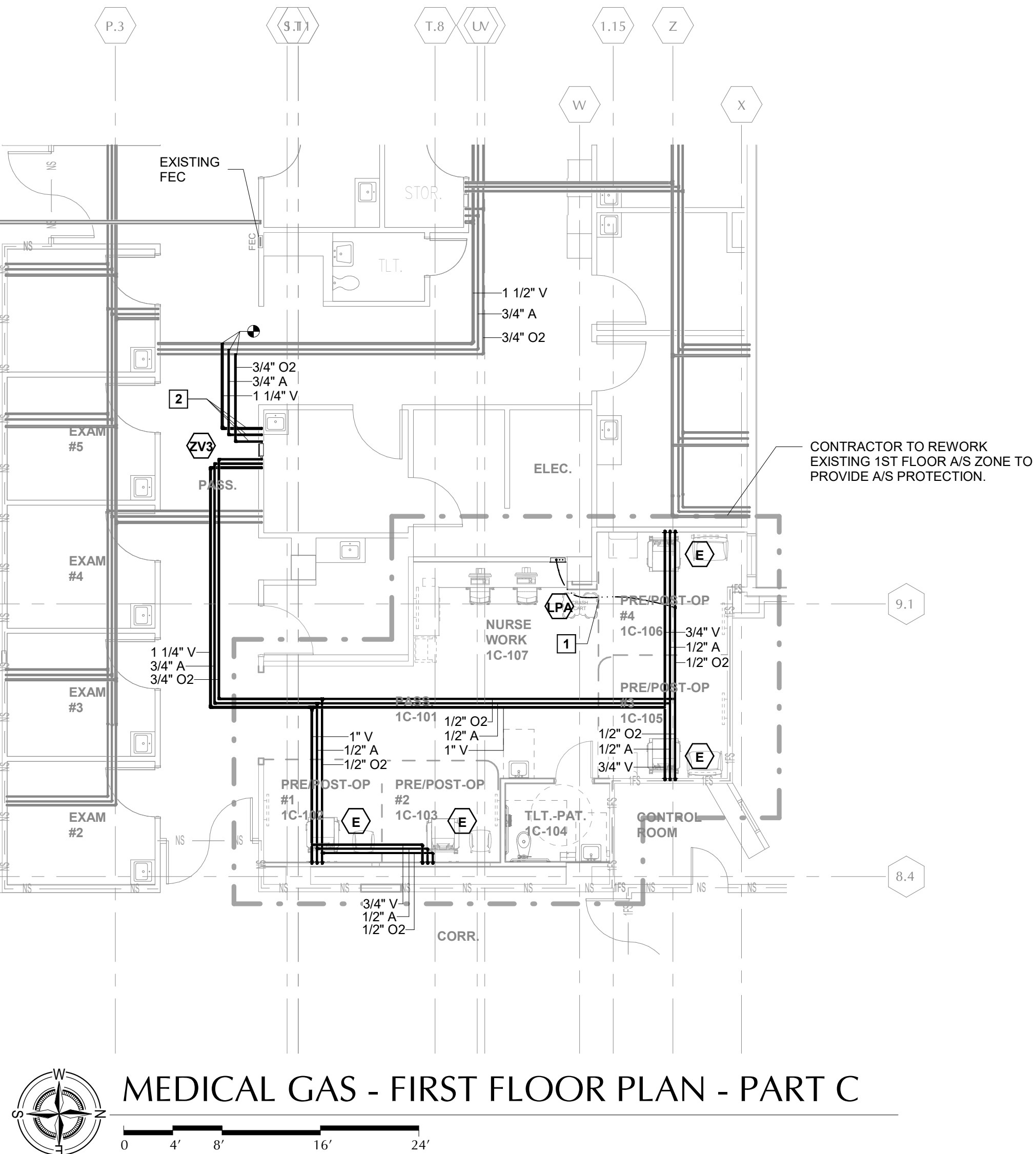
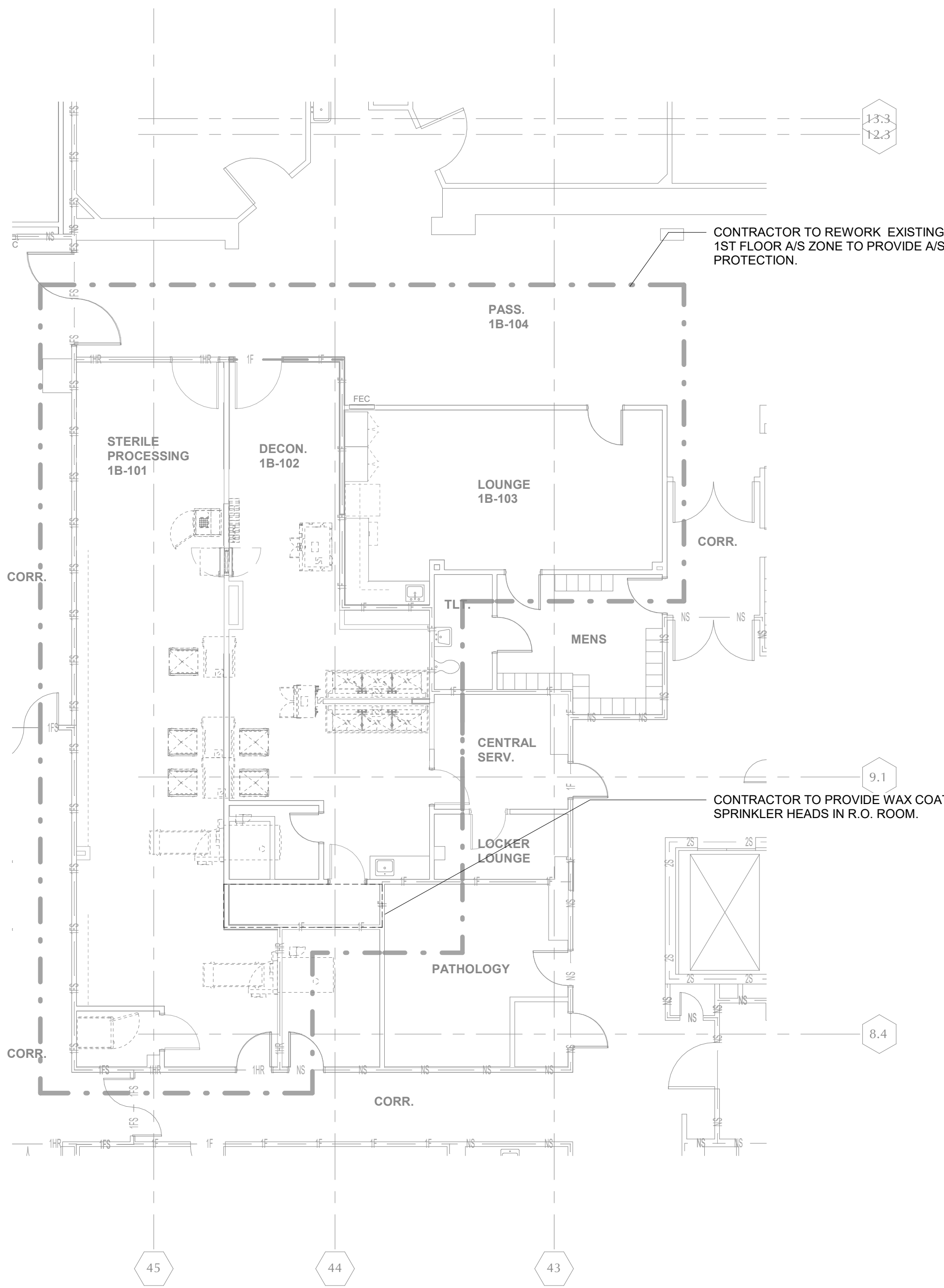
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MEDICAL GAS - FIRST FLOOR PLAN - PART B

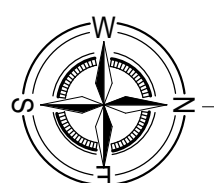
0 4' 8' 16' 24'



MEDICAL GAS - FIRST FLOOR PLAN - PART C

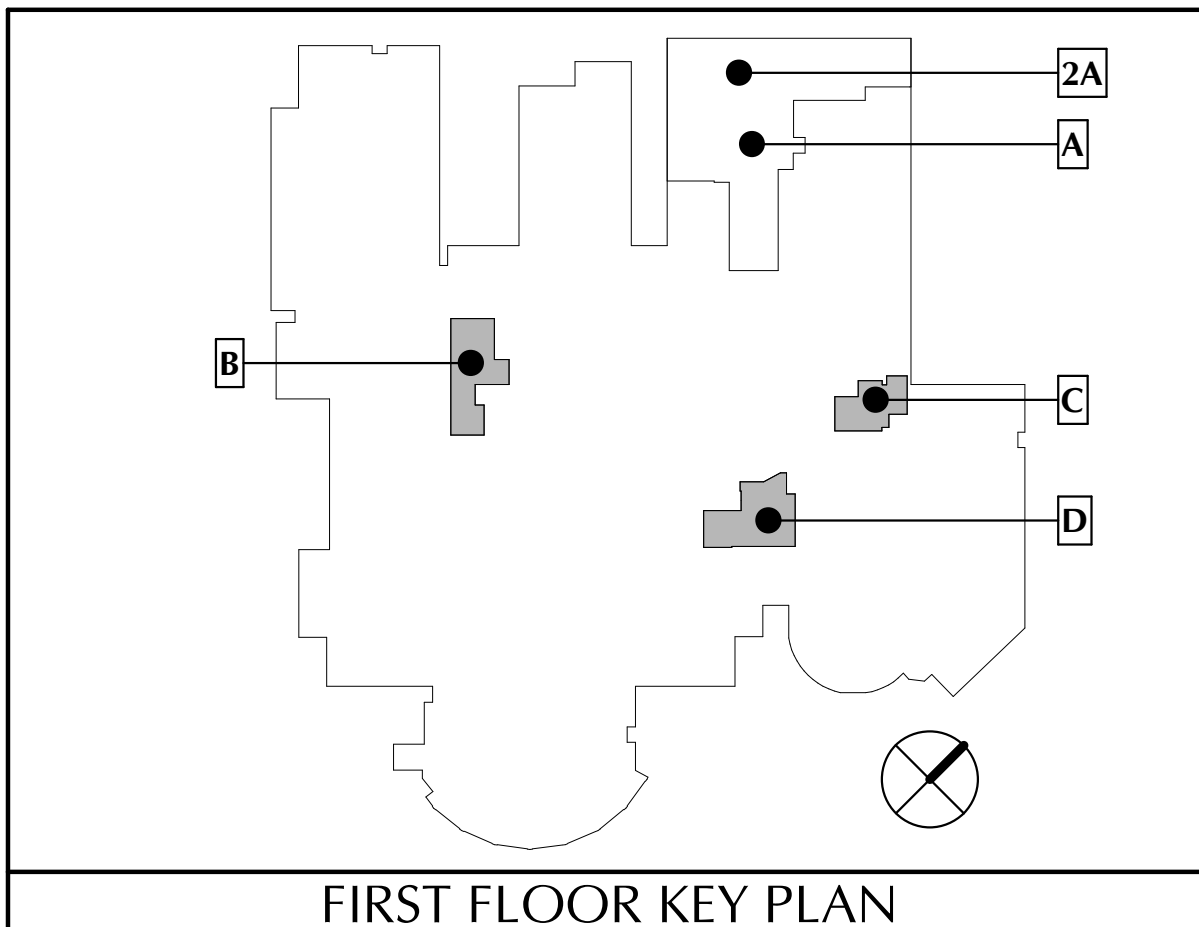
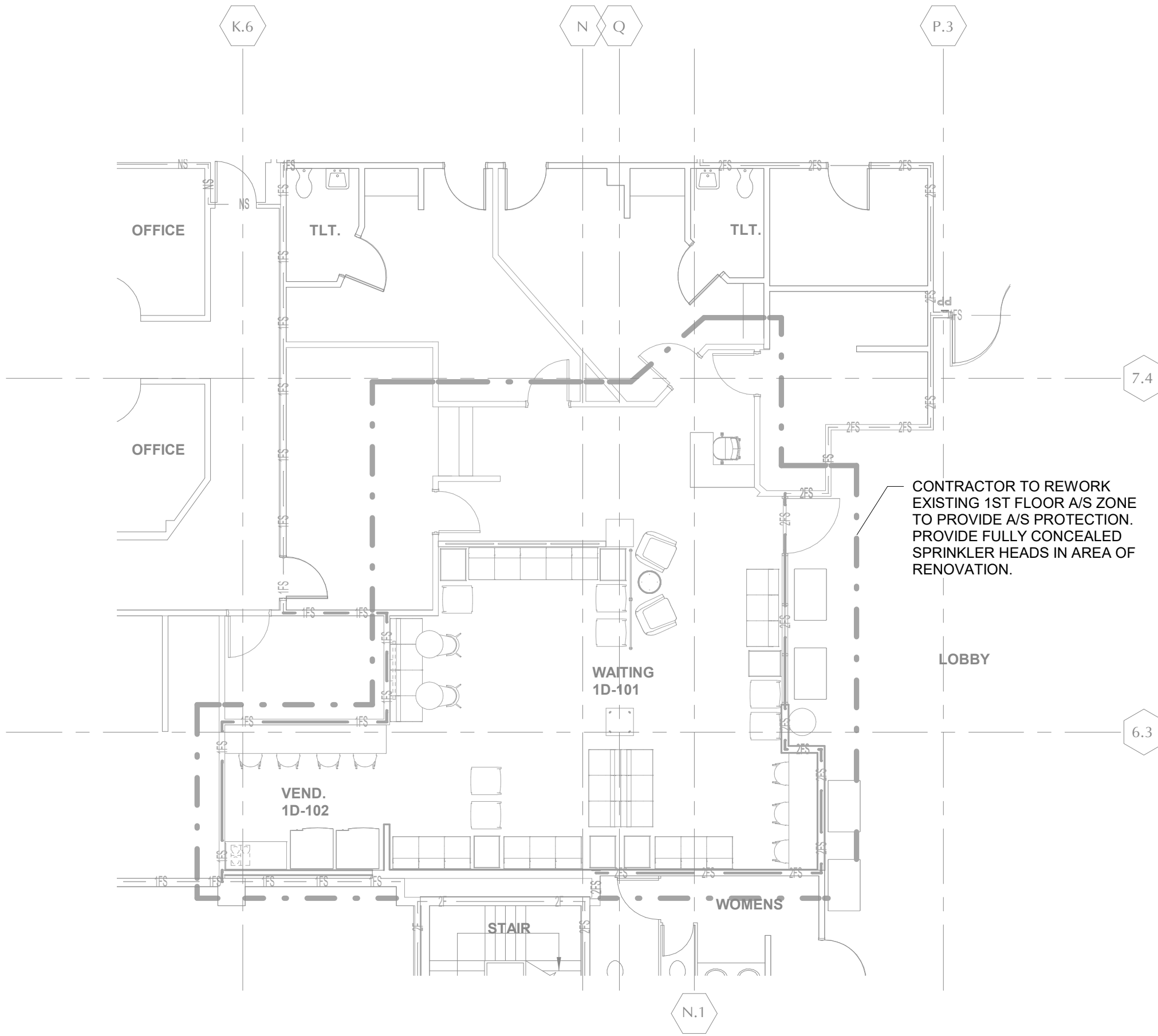
0 4' 8' 16' 24'

- MEDICAL GAS NOTES:
- LINE PRESSURE ALARM SENSOR WIRING.
  - PROVIDE SERVICE VALVES



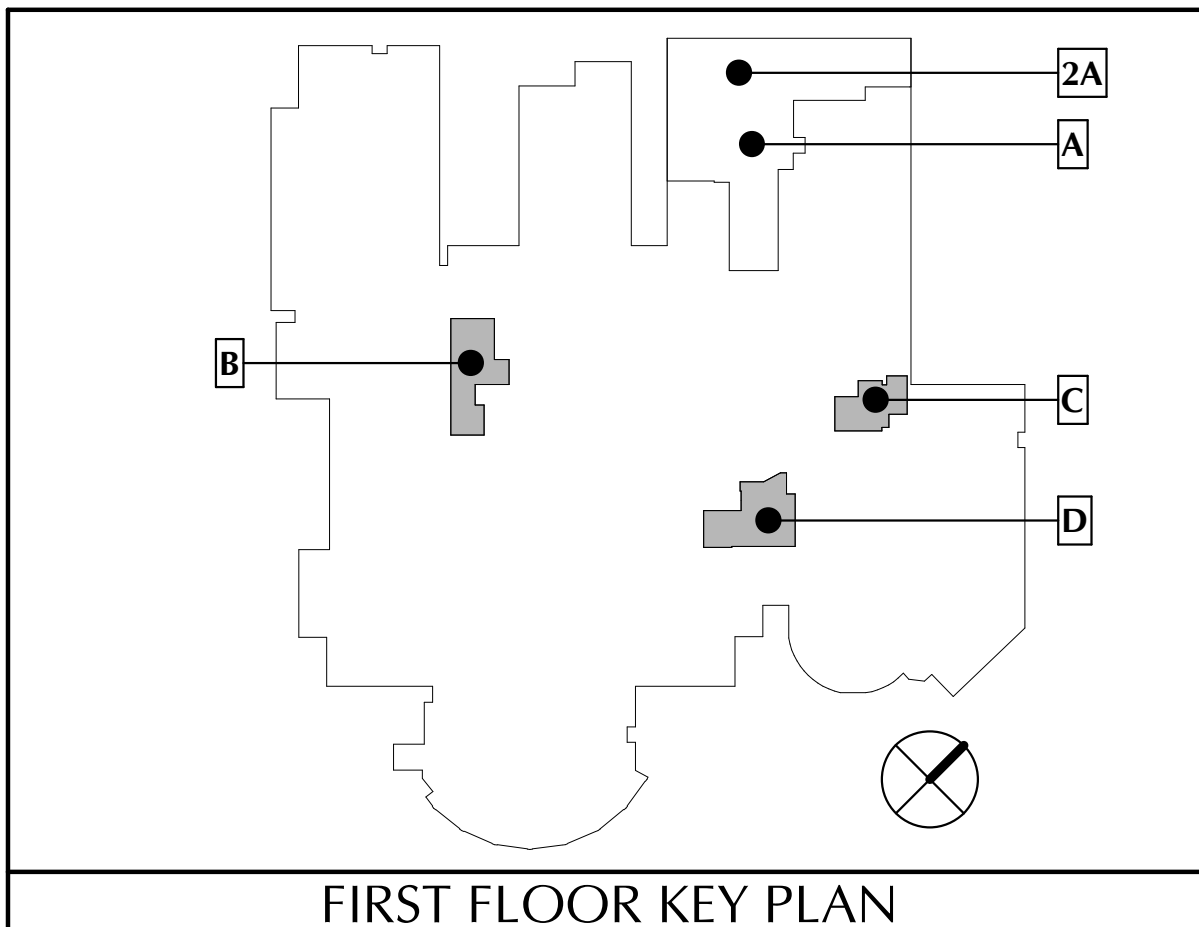
MEDICAL GAS - FIRST FLOOR PLAN - PART D

0 4' 8' 16' 24'



NEW WORK LEGEND

- EXISTING TO REMAIN  
NEW CONSTRUCTION



FIRST FLOOR KEY PLAN

PARTITION LEGEND - SEE SHEET A4.01			
HIGHEST PRIORITY ↑	1	TWO HOUR RATED FIRE BARRIER - SHAFTWALL	2S 2S 2S
	2	TWO HOUR RATED FIRE & SMOKE BARRIER	2FS 2FS 2FS
	3	TWO HOUR RATED FIRE BARRIER	2F 2F 2F
	4	ONE HOUR RATED FIRE BARRIER	1F 1F 1F
	5	ONE HOUR RATED FIRE & SMOKE BARRIER	1FS 1FS 1FS
	6	ONE HOUR RATED FIRE BARRIER - (INCIDENTAL USE/HAZARDOUS AREA)	1HR 1HR 1HR
	7	SMOKE PARTITION	NS NS NS
	8	PARTITION TO CEILING - STUDS TO DECK, STOP GYPSUM BOARD 4" ABOVE CEILING.	
↓ LOWEST PRIORITY			

- AUTOMATIC SPRINKLER NOTES:
- AUTOMATIC SPRINKLER HEADS TO BE QUICK RESPONSE STANDARD COVERAGE HEADS TO ACCEPT NEW PARTITION LAYOUT. REFER TO ARCHITECTURAL REFLECTING CEILING PLAN FOR LIMITS OF CONSTRUCTION.
  - REFER TO SPECIFICATIONS AND TO P.02 FOR SPRINKLER NOTES DESIGN CRITERIA.
  - PROVIDE FULLY CONCEALED SPRINKLER HEADS IN LOBBIES, WAITING ROOMS, OPERATING ROOMS, AND ASSOCIATED AREAS.

GENERAL CONTRACTORS  
BRASFIELD & GORRIE

M.P.E. & T. CONSULTANT  
L.C. THOMASSON ASSOCIATES, INC.  
2950 KRAFT DRIVE  
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MANAGER: TERRY HARTCO

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CIVIL CONSULTANT  
RIMLEY HORN AND ASSOCIATES, INC.  
214 OCEANSIDE DR.  
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MANAGER: CHRIS HARRIS

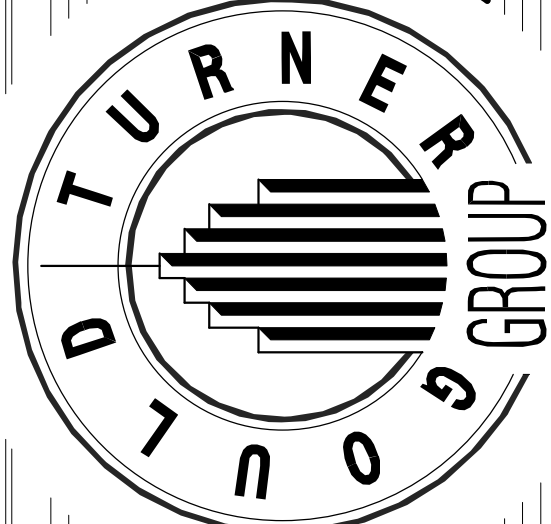
HCA Healthcare  
HCA DESIGN MANAGER:  
MICAL MAHUK  
HCA CONSTRUCTION MANAGER:  
RYAN MCCULLURE

REVISIONS:

CONSTRUCTION DOCUMENTS

GOULD TURNER GROUP, P.C.

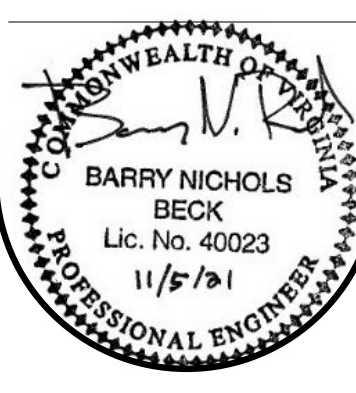
ARCHITECTURE  
615 3RD AVE SOUTH, SUITE 700  
NASHVILLE, TENNESSEE 37210  
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Architects - Planners - Interiors

LEWISGALE HOSPITAL MONTGOMERY

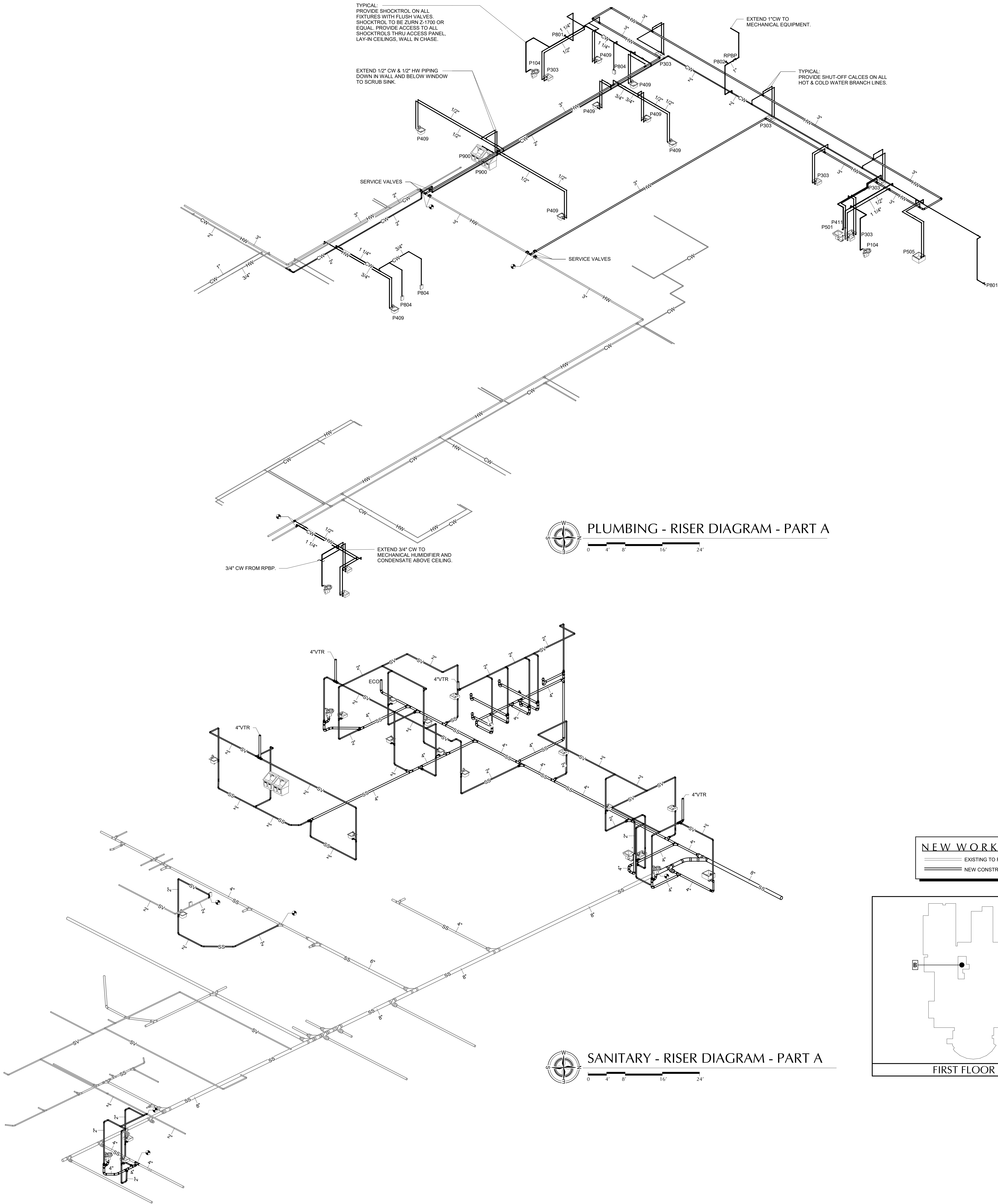
SURGERY EXPANSION & RENOVATION  
3700 S. MAIN ST, BLACKSBURG, VA 24060  
HCA# 344100009  
GT# 3749300



MED GAS & FIRE PROTECTION - 1ST FLOOR PLAN - B,C,D  
P4.02

RESPONSIBILITY: MMW | TMRZT  
CHECKED BY: MMW | TMRZT

DRAWING FILE: BNS-269-07-2019-1-C-00001-210227-AP20-0-00001-4  
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**HCA**  
Healthcare  
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HCA CONSTRUCTION MANAGER:  
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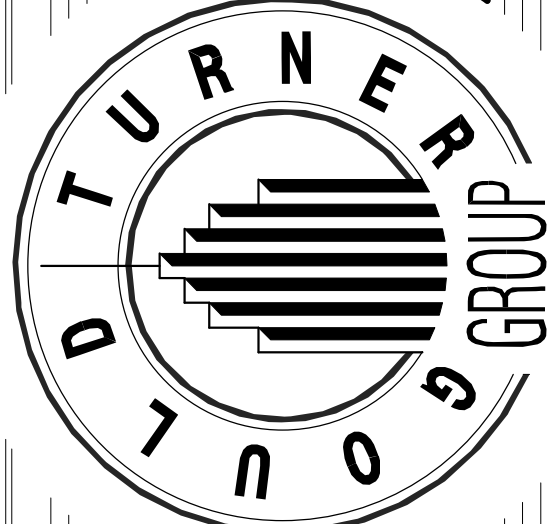
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MANAGER: TERRY HENDER

**GENERAL CONTRACTORS**  
BRASFIELD & GORRIE

PLUMBING - RISER  
DIAGRAM  
**P5.00**

**PROFESSIONAL ENGINEER**  
BARRY NICHOLS  
Lic. No. 40023  
11/5/91

**LEWISGALE HOSPITAL MONTGOMERY**  
SURGERY EXPANSION & RENOVATION  
3700 S. MAIN ST., BLACKSBURG, VA 24060  
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NASHVILLE, TENNESSEE 37210  
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**CONSTRUCTION DOCUMENTS**

REVISIONS:

DATE:  
11/05/2021