

VOLUME 2

AN ADDITION AND REMODEL FOR

Washington Co. Covid Mitigation

FAYETTEVILLE, AR

Issue Date: 08/30/2024

Revision Date: 10/04/2024

Project No.: 2333

CIVIL ENGINEER:

McCLELLAND CONSULTING ENGINEERS, INC.
1580 E. STEAMS ST
FAYETTEVILLE, AR 72703

STRUCTURAL ENGINEER:

TATUM-SMITH-WELCHER ENGINEERS
3100 S MARKET ST
SUITE 202
ROGERS, AR 72758

MEP ENGINEER:

HSA ENGINEERING
7405 ELLIS ST
FORT SMITH, AR 72916

SECURITY ENGINEER:

LATTATECH
1255 W 15TH ST
PLANO, TX 75075

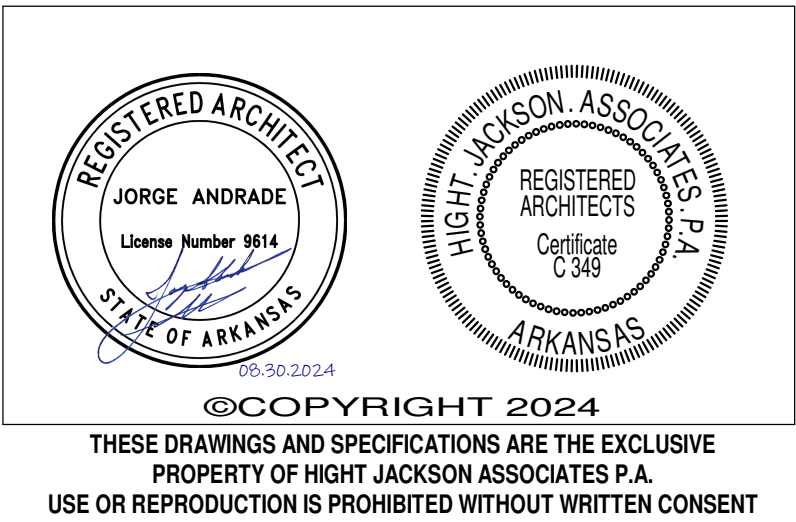
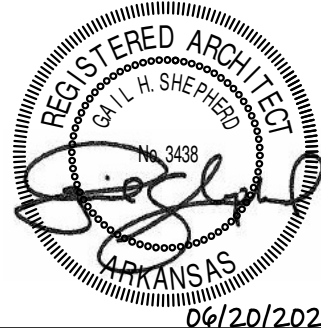
Drawing Index

PLUMBING		
FP2.1	FIRE PROTECTION PLAN	SECURITY SYSTEMS
FP2.2	FIRE PROTECTION PLAN	ES0.1 ELECTRONIC SECURITY SYMBOLS LEGEND
		ES1.2 SITE PLAN
PLUMBING		ES2.1 FIRST FLOOR PLAN
U2.1A	SITE UTILITY PLAN AREA A	ES2.1A FIRST FLOOR PLAN-AREA A
U2.1B	SITE UTILITY PLAN AREA B	ES2.1B FIRST FLOOR PLAN-AREA B
P1.1	PLUMBING NOTES & LEGEND	ES2.1C FIRST FLOOR PLAN-AREA C
P2.0	OVERALL PLUMBING DEMOLITION PLAN	ES2.1D FIRST FLOOR PLAN-AREA D AND AREA E
P2.0A	AREA A FIRST FLOOR PLUMBING DEMOLITION PLAN	ES3.1 ENLARGED PLANS
P2.0B	AREA B FIRST FLOOR PLUMBING DEMOLITION PLAN	ES3.2 ENLARGED PLANS
P2.0C	AREA C FIRST FLOOR PLUMBING DEMOLITION PLAN	ES3.3 ENLARGED PLANS
P2.0D	AREA D FIRST FLOOR PLUMBING DEMOLITION PLAN	ES4.1 SECURITY SYSTEM DIAGRAMS
P2.0E	AREA E FIRST FLOOR PLUMBING DEMOLITION PLAN	
P2.1	OVERALL PLUMBING PLAN	
P2.1A	AREA A FIRST FLOOR PLUMBING PLAN	
P2.1B	AREA B FIRST FLOOR PLUMBING PLAN	
P2.1C	AREA C FIRST FLOOR PLUMBING PLAN	
P2.1D	AREA D FIRST FLOOR PLUMBING PLAN	
P2.1E	AREA E FIRST FLOOR PLUMBING PLAN	
P3.1	PLUMBING DETAILS	
P3.2	PLUMBING DETAILS	
P4.1	PLUMBING RISERS	
P4.2	PLUMBING RISERS	
P4.3	PLUMBING RISERS	
P4.4	PLUMBING RISERS	
P4.5	PLUMBING RISERS	
P4.6	PLUMBING RISERS	
P4.7	PLUMBING RISERS	
P4.8	PLUMBING RISERS	
P4.9	PLUMBING RISERS	
P4.10	PLUMBING RISERS	
P4.11	PLUMBING RISERS	
P5.1	PLUMBING SCHEDULES	
MP2.1	OVERALL MECHANICAL ROOF PLAN	
MP2.1A	AREA A MECHANICAL ROOF PLAN	
MP2.1B	AREA B MECHANICAL ROOF PLAN	
MP2.1C	AREA C MECHANICAL ROOF PLAN	
MP2.1D	AREA D MECHANICAL ROOF PLAN	
MP2.1E	AREA E MECHANICAL ROOF PLAN	
MECHANICAL		
M1.1	HVAC NOTES & LEGEND	
M2.0	OVERALL MECHANICAL DEMO PLAN	
M2.0A	AREA A FIRST FLOOR HVAC DEMO PLAN	
M2.0B	AREA B FIRST FLOOR HVAC DEMO PLAN	
M2.0C	AREA C FIRST FLOOR HVAC DEMO PLAN	
M2.0E	AREA E FIRST FLOOR HVAC DEMO PLAN	
M2.1	OVERALL HVAC PLAN	
M2.1A	AREA A FIRST FLOOR HVAC PLAN	
M2.1B	AREA B FIRST FLOOR HVAC PLAN	
M2.1C	AREA C FIRST FLOOR HVAC PLAN	
M2.1D	AREA D FIRST FLOOR HVAC PLAN	
M2.1E	AREA E FIRST FLOOR HVAC PLAN	
M3.1	HVAC DETAILS	
M3.2	HVAC DETAILS	
M3.3	HVAC DETAILS	
M3.4	HVAC DETAILS	
M3.5	HVAC DETAILS	
M3.6	HVAC DETAILS	
M5.1	HVAC SCHEDULES	
ELECTRICAL		
ES1.0	ELECTRICAL SITE DEMOLITION PLAN	
ES1.1	ELECTRICAL SITE PLAN	
E1.1	ELECTRICAL LEGEND, NOTES & DETAILS	
E2.0	OVERALL ELECTRICAL DEMO PLAN	
E2.0A	AREA A & B FIRST FLOOR ELECTRICAL DEMOLITION PLAN	
E2.0B	AREA C FIRST FLOOR ELECTRICAL DEMOLITION PLAN	
E2.0C	AREA E FIRST FLOOR ELECTRICAL DEMOLITION PLAN	
E2.1	OVERALL LIGHTING PLAN	
E2.1A	AREA A FIRST FLOOR LIGHTING PLAN	
E2.1B	AREA B FIRST FLOOR LIGHTING PLAN	
E2.1C	AREA C FIRST FLOOR LIGHTING PLAN	
E2.1D	AREA D FIRST FLOOR LIGHTING PLAN	
E2.1E	AREA E FIRST FLOOR LIGHTING PLAN	
E2.2	OVERALL POWER PLAN	
E2.2A	AREA A FIRST FLOOR POWER PLAN	
E2.2B	AREA B FIRST FLOOR POWER PLAN	
E2.2C	AREA C FIRST FLOOR POWER PLAN	
E2.2D	AREA D FIRST FLOOR POWER PLAN	
E2.2E	AREA E FIRST FLOOR POWER PLAN	
E2.3	OVERALL MECHANICAL POWER PLAN	
E2.3A	AREA A FIRST FLOOR MECHANICAL POWER PLAN	
E2.3B	AREA B FIRST FLOOR MECHANICAL POWER PLAN	
E2.3C	AREA C FIRST FLOOR MECHANICAL POWER PLAN	
E2.3D	AREA D FIRST FLOOR MECHANICAL POWER PLAN	
E2.3E	AREA E FIRST FLOOR MECHANICAL POWER PLAN	
E2.5	OVERALL SPECIAL SYSTEMS PLAN	
E2.5A	AREA A FIRST FLOOR SPECIAL SYSTEMS PLAN	
E2.5B	AREA B FIRST FLOOR SPECIAL SYSTEMS PLAN	
E2.5C	AREA C FIRST FLOOR SPECIAL SYSTEMS PLAN	
E2.5D	AREA D FIRST FLOOR SPECIAL SYSTEMS PLAN	
E2.5E	AREA E FIRST FLOOR SPECIAL SYSTEMS PLAN	
E3.1	ELECTRICAL DETAILS	
E3.2	ELECTRICAL DETAILS	
E3.3	ELECTRICAL DETAILS	
E4.1	ELECTRICAL RISER DIAGRAMS	
E5.1	ELECTRICAL SCHEDULES	
E5.2	ELECTRICAL SCHEDULES	
E5.3	ELECTRICAL SCHEDULES	
E5.4	ELECTRICAL SCHEDULES	
E5.5	ELECTRICAL SCHEDULES	

Hight Jackson
ASSOCIATES

5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A QUALITY CONTROL CHECK, INCLUDING THE APPROPRIATE COORDINATION AMONG DISCIPLINES, HAS BEEN MADE ON THIS PROJECT'S DOCUMENTS, AND CORRECTIONS RELATED TO THIS CHECK HAVE BEEN MADE. THE UNDERSIGNED PRINCIPAL OWNER STATES THAT THESE PLANS AND SPECIFICATIONS AS SUBMITTED FOR REVIEW ARE, TO THE BEST OF HIS OR HER KNOWLEDGE AND ABILITY, COMPLETE AND READY FOR REVIEW



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NOTE:
FIRE SPRINKLE CONTRACTOR TO SUPPLY TAMPER-PROOF
SPRINKLER HEADS IN ALL DETENTION LOCATION.

SEISMIC DESIGN INFORMATION

ALL FIRE PROTECTION SYSTEMS SHALL HAVE A COMPONENT
IMPORTANCE FACTOR OF 1.5. VIBRATION ISOLATION OF FIRE
PROTECTION EQUIPMENT AND PIPING IS NOT REQUIRED UNLESS
INDICATED SPECIFICALLY ON DRAWINGS OR SCHEDULES. REFER TO
SPECIFICATIONS FOR MORE INFORMATION. REFER TO STRUCTURAL
DRAWINGS FOR BUILDING SEISMIC DESIGN INFORMATION.



Hight Jackson
ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72768 | (479) 464-4965 | www.hjarch.com

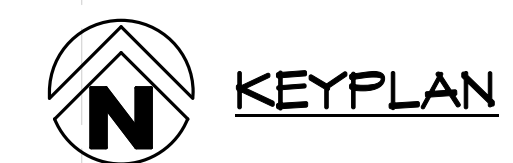
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KPH
CHECK BY:
NEW
ISSUE DATE:
08/30/2024

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REVISION DATES
10/04/2024
11/15/2024

FIRE PROTECTION PLAN
SHEET
FP2.2
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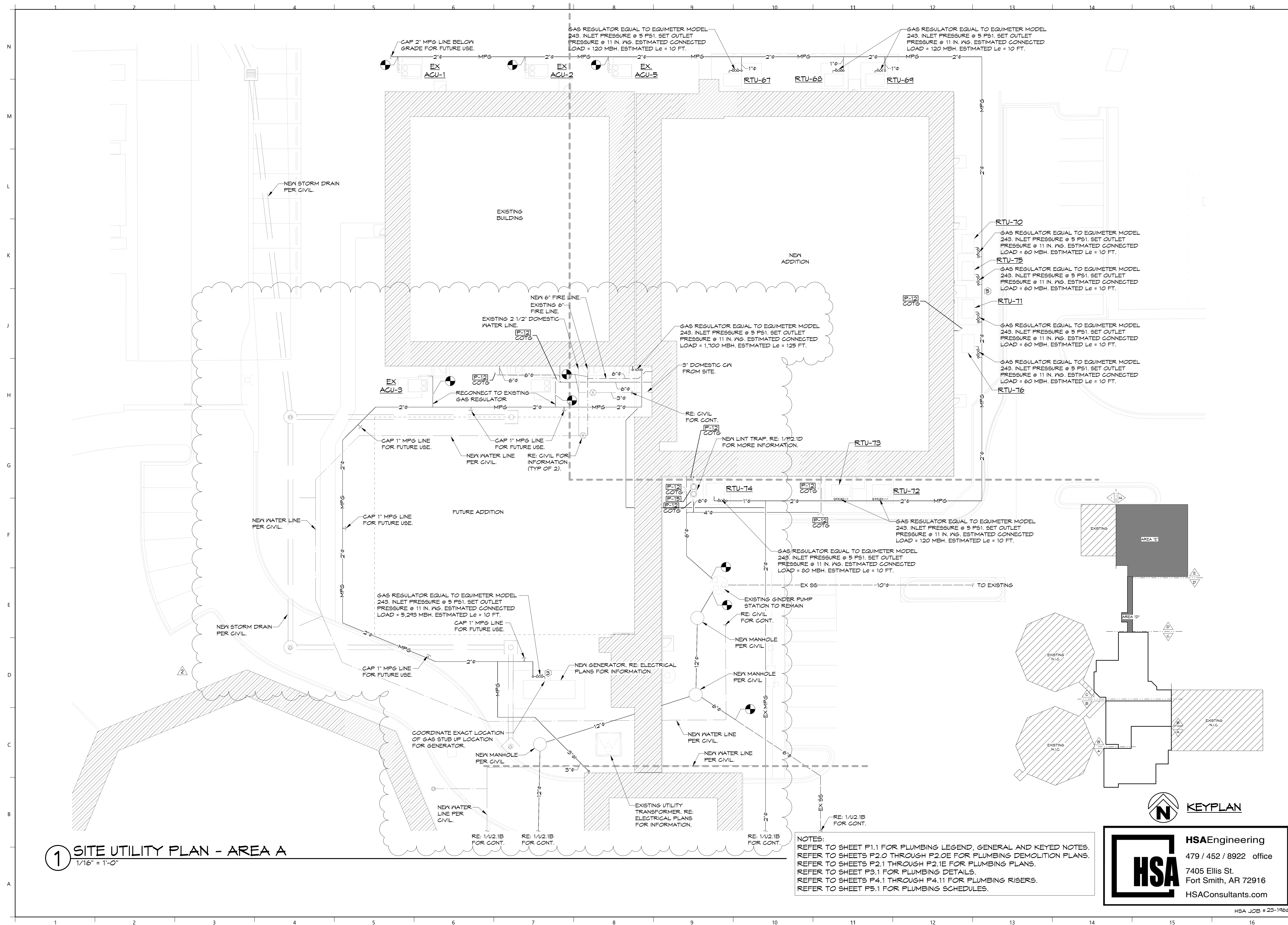


HSA HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 23-196a

① AREA D FIRE PROTECTION PLAN
1/8" = 1'-0"

② AREA E FIRE PROTECTION PLAN
1/8" = 1'-0"



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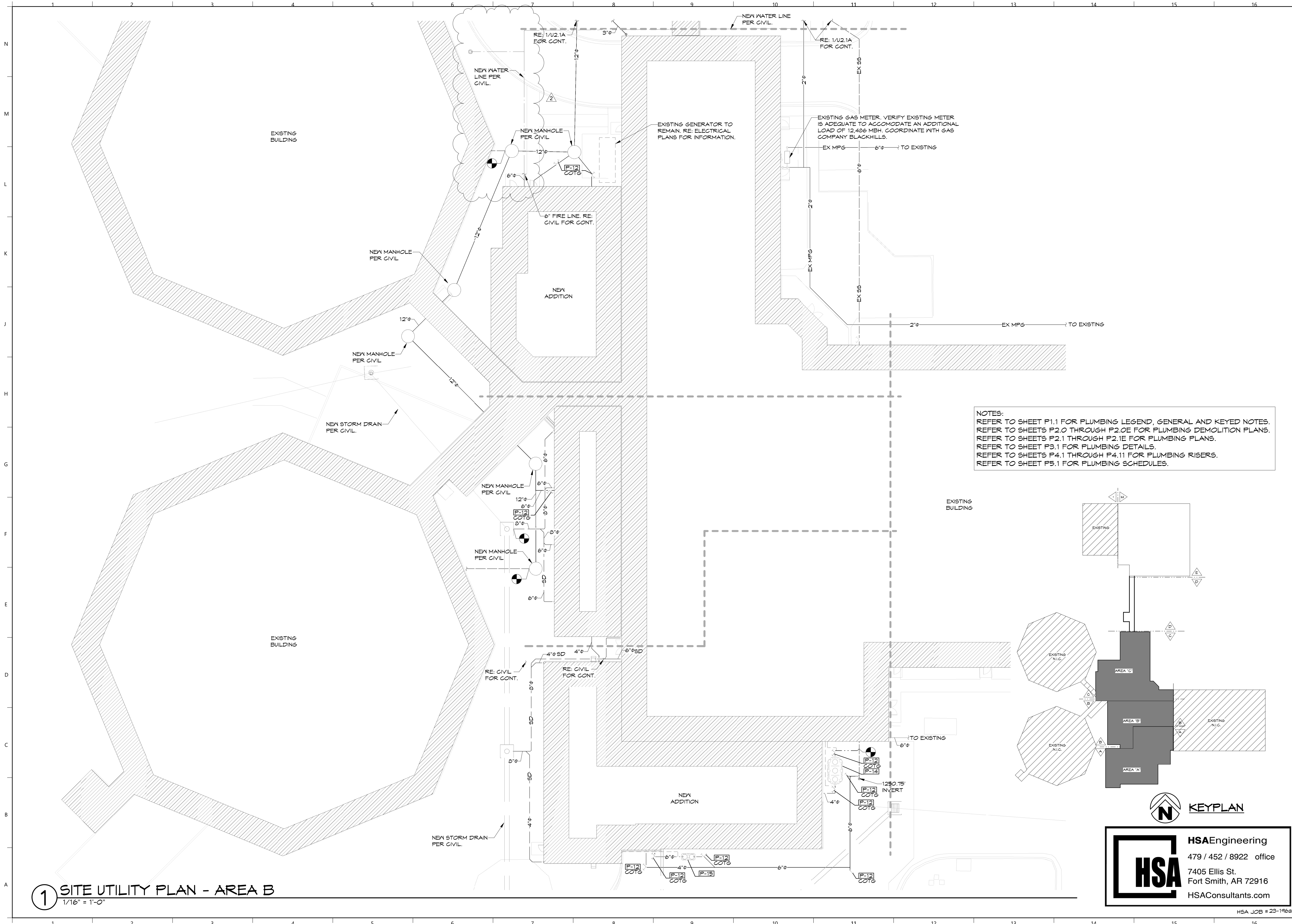
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11/15/2024

WHITE UTILITY PLAN AREA A

S H E E T

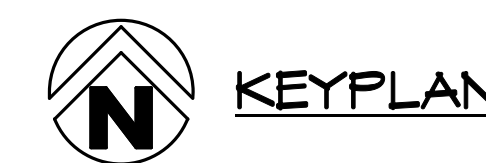
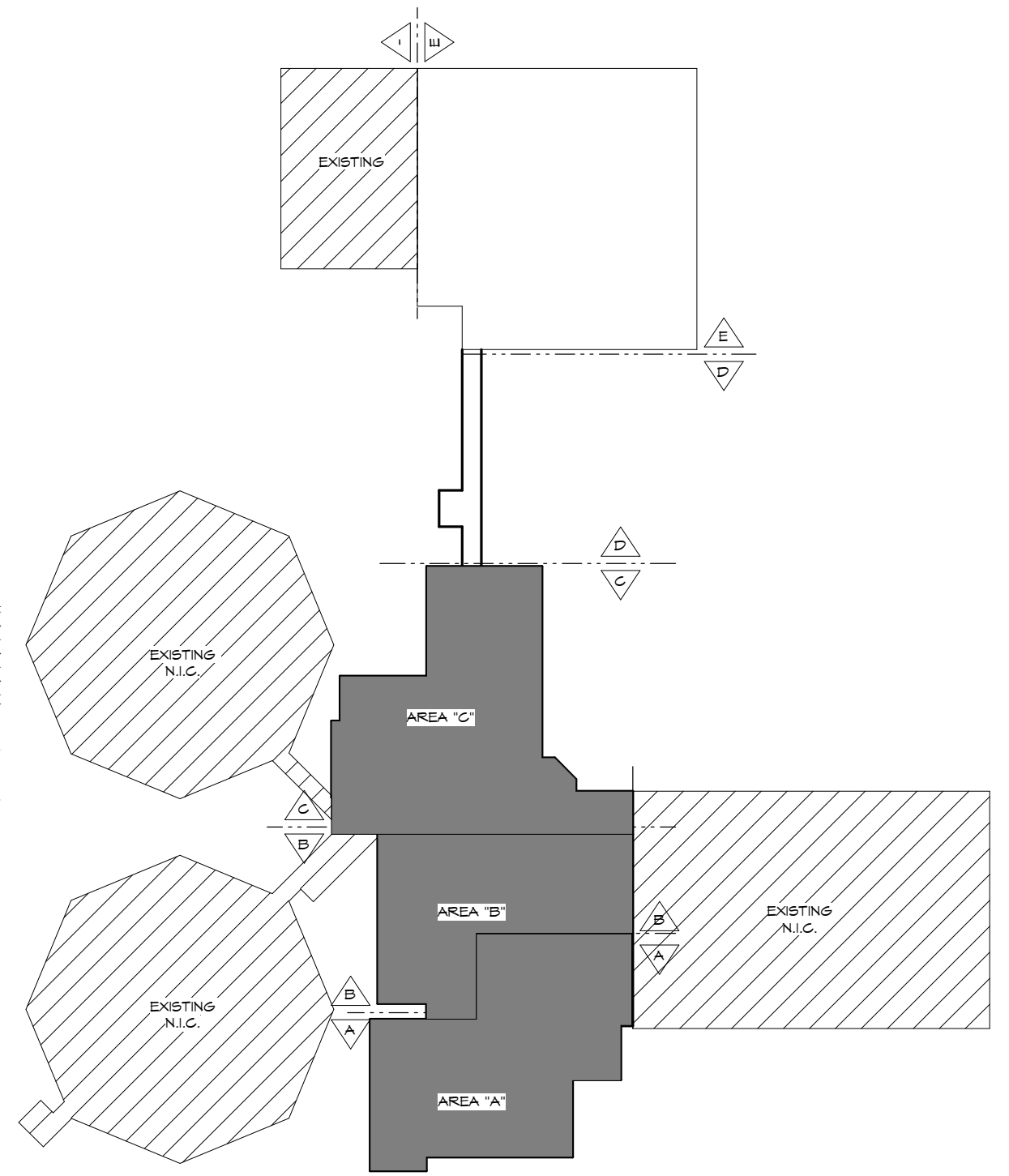
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1 SITE UTILITY PLAN - AREA B
1/16" = 1'-0"

NOTES:
REFER TO SHEET P1.1 FOR PLUMBING LEGEND, GENERAL AND KEYED NOTES.
REFER TO SHEETS P2.0 THROUGH P2.0E FOR PLUMBING DEMOLITION PLANS.
REFER TO SHEETS P2.1 THROUGH P2.1E FOR PLUMBING PLANS.
REFER TO SHEET P3.1 FOR PLUMBING DETAILS.
REFER TO SHEETS P4.1 THROUGH P4.11 FOR PLUMBING RISERS.
REFER TO SHEET P5.1 FOR PLUMBING SCHEDULES.



HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

Hight Jackson
ASSOCIATES
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SITE UTILITY PLAN AREA B

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GENERAL PLUMBING NOTES

1. ALL PLUMBING MATERIALS AND INSTALLATION SHALL COMPLY WITH THE ARKANSAS STATE PLUMBING CODE, LATEST EDITION.

2. INSTALL ALL DOMESTIC HOT AND COLD WATER PIPING AS PER STATE AND LOCAL CODES.

3. INSULATE ABOVE GRADE CONCEALED DOMESTIC HOT AND COLD WATER LINES PER SPECIFICATIONS, SECTION 22 07 19.

4. PROVIDE MAIN DOMESTIC COLD WATER LINE BUILDING SHUT OFF VALVE AT ENTRY INTO THE BUILDING. INSTALL IN FREEZE PROOF VAULT WITH ACCESS COVER.

5. INSTALL DEEP SEAL TRAPS AT ALL DRAIN CONNECTIONS.

6. COORDINATE UNDER SLAB PIPING WITH COLUMNS AND FOOTINGS. REFER TO STRUCTURAL DRAWINGS.

7. MINIMUM DEPTH OF COVER FOR WATER LINES IS 30 IN.

8. BURY YELLOW #10 THIN COPPER TRACER WIRE IN TRENCH WITH ALL UNDER GROUND PLASTIC SERVICES. LEAVE ENDS EXPOSED FOR FUTURE LOCATION.

9. PROVIDE AND INSTALL 6 IN. DIRT LEG AND GAS STOP (BALL VALVE ONLY) AT ALL EQUIPMENT GAS CONNECTIONS.

10. PROVIDE GAS MAIN BUILDING SHUT OFF VALVE NEAR ENTRY TO THE BUILDING.

11. ALL GAS PIPING SYSTEMS WITHIN A BUILDING AND OTHER ABOVE GROUND GAS PIPING SHALL BE ELECTRICALLY CONTINUOUS AND BONDED TO A GROUNDED ELECTRODE AS DEFINED IN N.E.P.A. TO.

12. VERIFY LOCATION AND SIZE OF EXISTING SITE UTILITIES WITH UTILITY AUTHORITIES PRIOR TO CONSTRUCTION.

13. ALL IMPROVEMENTS (PAVEMENTS, CURB AND GUTTER, SOD, ETC.) SHALL BE REPLACED AS ASSIGNED BY CONSTRUCTION MANAGER TO PRECONSTRUCTION CONDITION.

14. WHERE FIRE RATED PARTITIONS OR FLOORS OCCUR, ALL FLOOR TO FLOOR AND ROOM TO ROOM PENETRATIONS SHALL BE PROPERLY FIRE SEALED WITH U.L. LISTED AND CLASSIFIED FIRE CAULK OR FIRE SEALED BY USING AN APPROVED FIRE SEAL SLEEVE METHOD WHICH MEETS U.L. REQUIREMENTS. ALL OTHER PENETRATIONS OF RATED CHASES OR WALLS SHALL BE PROPERLY FIRE SEALED AND WHERE EXTENDING THROUGH SUCH RATED SURFACE SHALL BE A RATED FIRE STOP PENETRATION. ALL FIRE STOPPING, FIRE CAULKING AND FIRE SLEEVING OR OTHER FIRE SEALING SHALL BE ACCEPTABLE BY THE LOCAL AUTHORITIES AND SHALL BEAR THE U.L. SEAL.

15. INSTALL DOMESTIC WATER, GAS AND COMPRESSED AIR LINES TIGHT AGAINST BUILDING SURFACE.

16. VERIFY LOCATION, INVERT AND SIZE OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.

17. PROVIDE CITY APPROVED REDUCED PRESSURE BACKFLOW PREVENTERS ON ALL DOMESTIC SERVICE LINES CONNECTED TO ALL DEVICES, APPURTENANCES, APPLIANCES AND APPARATUS INTENDED TO SERVE SOME SPECIAL FUNCTION, SUCH AS STERILIZATION, DISTILLATION, PROCESSING, COOLING STORAGE OF FOODS OR ICE, WATER PUMPS, FILTERS, SOFTENERS, TANKS AND ALL OTHER APPLIANCES AND DEVICES THAT HANDLE OR TREAT POTABLE WATER SHALL BE PROTECTED AGAINST CONTAMINATION WITH SIMILAR BACKFLOW PREVENTER.

18. CONDENSATE PIPING FROM ROOF TOP AIR CONDITIONERS SHALL BE SCHEDULE 40 P.V.C. PROVIDE CONDENSATE TRAP. ROUTE CONDENSATE LINE TO NEAREST ROOF DRAIN OR GUTTER.

19. PROVIDE PIPE BOOT WITH ULTRAPLY TPO MEMBRANE AS FLASHING AND STAINLESS STEEL CLAMPING RING FOR ALL GAS LINES PENETRATING THE ROOF.

20. ALL MECHANICAL INSTALLATIONS SHALL CONFORM TO THE LATEST ACCEPTABLE ARKANSAS STATE MECHANICAL CODE.

21. ALL WATER AND SEWER LINE MATERIALS AND INSTALLATION METHODS SHALL BE IN ACCORDANCE WITH THE CITY OF FAYETTEVILLE STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION AS WELL AS THE ARKANSAS STATE PLUMBING CODE.

22. MECHANICAL CONTRACTOR SHALL REFER TO THE FOOD SERVICE DRAWINGS AND PROVIDE ALL REQUIRED MECHANICAL FOOD SERVICE EQUIPMENT CONNECTIONS.

23. HORIZONTAL BRANCHES SHALL CONNECT TO HORIZONTAL STACK OFFSETS AND TO THE BASES OF STACKS AT A POINT LOCATED NOT LESS THAN 10 FEET DIAMETERS DOWNSTREAM FROM THE STACK.

24. CONTRACTOR SHALL PROVIDE 'AS BUILT' DRAWINGS OF ALL PLUMBING AND PIPING SYSTEMS UPON COMPLETION OF THE PROJECT.

25. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE DRAWINGS, THE BUILDING SITE, AND OTHER INFORMATION PRESENTED FOR THE CONSTRUCTION OF THIS PROJECT. IF CONTRACTOR HAS QUESTIONS REGARDING ASSEMBLIES OR LAYOUTS WITH THE PROJECT HE SHALL MAKE THEM KNOWN TO THE ENGINEER IN WRITING PRIOR TO ADDING THE PROJECT. CLAIMS MADE SUBSEQUENT TO THE BID WILL NOT BE ACCEPTED IF IT IS DETERMINED THAT PROPER FAMILIARIZATION COULD HAVE AVOIDED SUCH CLAIM.

26. MECHANICAL CONTRACTOR SHALL COORDINATE INSTALLATION PLUMBING SITE UTILITIES WITH SITE WORK OF OTHER TRADES. IN INSTANCES WHERE COORDINATION REQUIRES DEVIATION FROM PLANS MECHANICAL CONTRACTOR SHALL NOTIFY ENGINEER OF PROPOSED CHANGES.

27. COMPLY WITH STATE OF ARKANSAS ADOPTED ADA ACCESSIBLE GUIDELINES IN REGARD TO ACCESSIBLE FEATURES.

28. PROVIDE DRIP PAN FOR ENTIRE LENGTH OF PIPE WHERE PIPE MUST BE INSTALLED ABOVE ELECTRICAL EQUIPMENT.

29. DO NOT ROUTE GROUPS OF CONDUIT, PIPES, AND SLEEVES ABOVE FOOTINGS UNLESS NOTED TO DO SO. IF CONFLICT OCCURS, CONSULT ARCHITECT/ENGINEER.

30. LIMIT WIDTH OF CONDUIT, PIPES AND SLEEVES NOT TO EXCEED 3 FEET IN WIDTH AS IT PASSES UNDER WALL FOOTING. AS MUCH AS POSSIBLE, ALIGN THE ITEMS PERPENDICULAR TO THE FOOTING AS IT PASSES BELOW FOOTING.

31. PROVIDE A MINIMUM SPACING OF 2 FEET BETWEEN CONDUIT OR PIPE GROUPS AS ITEMS PASS UNDER FOOTINGS.

32. DO NOT ROUTE CONDUITS, PIPE OR SLEEVES UNDER COLUMN FOOTINGS OR PAD FOOTINGS.

33. MECHANICAL CONTRACTOR MUST REVIEW ALL ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES, ROOF, OVERFLOW AND FLOOR DRAINS. IF PLUMBING FIXTURES OR DRAINS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS THEY MUST BE INCLUDED IN THE CONTRACT EVEN IF NOT SHOWN ON THE MECHANICAL DRAWINGS.

34. WHERE THE BUILDING SEWER IS INSTALLED WITHIN 10 FEET OF THE WATER SERVICE THE WATER SERVICE PIPE SHALL BE A MINIMUM OF 12 INCHES ABOVE THE TOP OF THE HIGHEST POINT OF THE SEWER. REQUIRED SEPARATION DISTANCE SHALL NOT APPLY WHERE A WATER SERVICE PIPE CROSSES A SEWER PIPE IS SLEEVED 10 FEET HORIZONTALLY FROM THE SEWER PIPE CENTERLINE ON BOTH SIDES OF SUCH PIPE CROSSINGS.

35. DO NOT SCALE DIRECTLY FROM THE PLUMBING DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL INFORMATION.

36. ALL PLUMBING SANITARY WASTE AND VENT PIPING INSTALLED IN FIRE RATED WALLS OR PLENUM RETURN AIR SYSTEMS SHALL BE CAST IRON. REFER TO ARCHITECTURAL PLANS FOR LIFE SAFETY INFORMATION.

PLUMBING KEYED NOTES

1. INSTALL AN APPROVED TRAP GUARD PRODUCT THAT CONFORMS TO NSF-14, CSA B602-99 AND CSA B719-94.

2. COORDINATE UNDERSLAB PIPING WITH STRUCTURAL FOOTINGS. REFER TO STRUCTURAL PLANS FOR LOCATIONS AND SIZES OF FOOTINGS.

3. PROVIDE AND INSTALL 6 INCH DIRT LEG AND GAS STOP (BALL VALVE ONLY) AT ALL EQUIPMENT GAS CONNECTIONS. REFER TO DETAIL 1/P3.1.

4. MECHANICAL CONTRACTOR SHALL NOT INSTALL ANY WATER LINES ABOVE ELECTRICAL PANELS. REFER TO ELECTRICAL PLANS FOR PANEL LOCATIONS.

5. IDENTIFY OUTDOOR UNDERGROUND LINES WITH CONTINUOUS STRIP OF PLASTIC UTILITY MARKER. TAPE SHOULD STATE AT REGULAR INTERVALS: "CAUTION (STATE UTILITY) PIPE BELOW". INSTALL TAPE ONE FOOT DIRECTLY ABOVE PIPE BEFORE BACKFILLING TO GRADE.

6. MECHANICAL CONTRACTOR TO PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER (RPZ) AND PRESSURE REDUCING VALVE (IF REQUIRED) AT THE DOMESTIC WATER SERVICE ENTRANCE IN BUILDING. THERE SHALL BE NO WYES OR TEES PRIOR TO THE RPZ. PROVIDE MATTS MODEL LF401 OR APPROVED EQUAL RPZ. REFER TO 3/P3.2 FOR DETAIL.

7. MAINTAIN A MINIMUM OF 10 FOOT CLEARANCE BETWEEN THE NEW WATER LINES AND NEW SANITARY SEWER PIPE.

8. MECHANICAL CONTRACTOR SHALL INSTALL DUCTILE IRON SLEEVE ON NEW WATER LINES WHERE THEY CROSS ABOVE ANY SANITARY SEWER LINES. SLEEVE SHALL BE 10 FEET IN BOTH DIRECTIONS OF THE SANITARY SEWER PIPE CENTER LINE.

9. PROVIDE ACCESS PANEL WITHIN B112 RR. TO ACCESS DETENTION FIXTURES IN B113 RR.

SEISMIC DESIGN INFORMATION

ALL GAS PIPING SHALL HAVE A COMPONENT IMPORTANCE FACTOR OF 1.5. VIBRATION ISOLATION OF PLUMBING EQUIPMENT AND PIPING SYSTEMS IS NOT REQUIRED UNLESS INDICATED SPECIFICALLY ON DRAWINGS OR SCHEDULES. REFER TO SPECIFICATIONS FOR MORE INFORMATION. REFER TO STRUCTURAL DRAWINGS FOR BUILDING SEISMIC DESIGN INFORMATION.

PLUMBING LEGEND

—EX SS—

—EX GN—

—EX HW—

—EX HWR—

—HTWS—

—MPG—

—G—

—EX G—

—CD—

—SD—

—FL—

—FDC—

COTG

FD

FS

FPFB

HB

ADA

HD

WCO

WH

SS

RD

SANITARY WASTE PIPING

EXISTING SANITARY WASTE PIPING

GREASE SANITARY WASTE PIPING

GREASE SANITARY WASTE PIPING

VENT PIPING

EXISTING VENT PIPING

COLD WATER PIPING

EXISTING COLD WATER PIPING

HOT WATER PIPING

EXISTING HOT WATER PIPING

HOT WATER RETURN PIPING

EXISTING HOT WATER RETURN PIPING

HIGH TEMPERATURE WATER SUPPLY (140°F)

MEDIUM PRESSURE GAS PIPING (5 PSIG)

LOW PRESSURE GAS PIPING (11 IN. W.C.)

EXISTING LOW PRESSURE GAS PIPING

CONDENSATE DRAIN PIPING

STORM DRAIN PIPING

FIRE LINE

FIRE DEPARTMENT CONNECTION

PIPING TO BE REMOVED

BALL VALVE

GAS REGULATOR EQUAL TO EQUIPMENT 243

GAS BALL VALVE

CONNECTION POINT

FIXTURES TO BE REMOVED

WATER HAMMER ARRESTOR (SIZE PER MANUFACTURER'S RECOMMENDED FIXTURE UNIT CAPACITY)

FIRE HYDRANT

REFER TO KEYED NOTES

PLUMBING FIXTURE NUMBER (REFER TO PLUMBING FIXTURE SCHEDULE)

CLEAN OUT TO GRADE

FLOOR DRAIN

FLOOR SINK

FREEZE PROOF HOSE BIB

HOSE BIB

ACCESSIBLE

HUB DRAIN

WALL CLEAN OUT

WATER HEATER

SANITARY SEWER

ROOF DRAIN

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No.14057
ANTHONY E. WILSON
08/30/24

Hight Jackson ASSOCIATES

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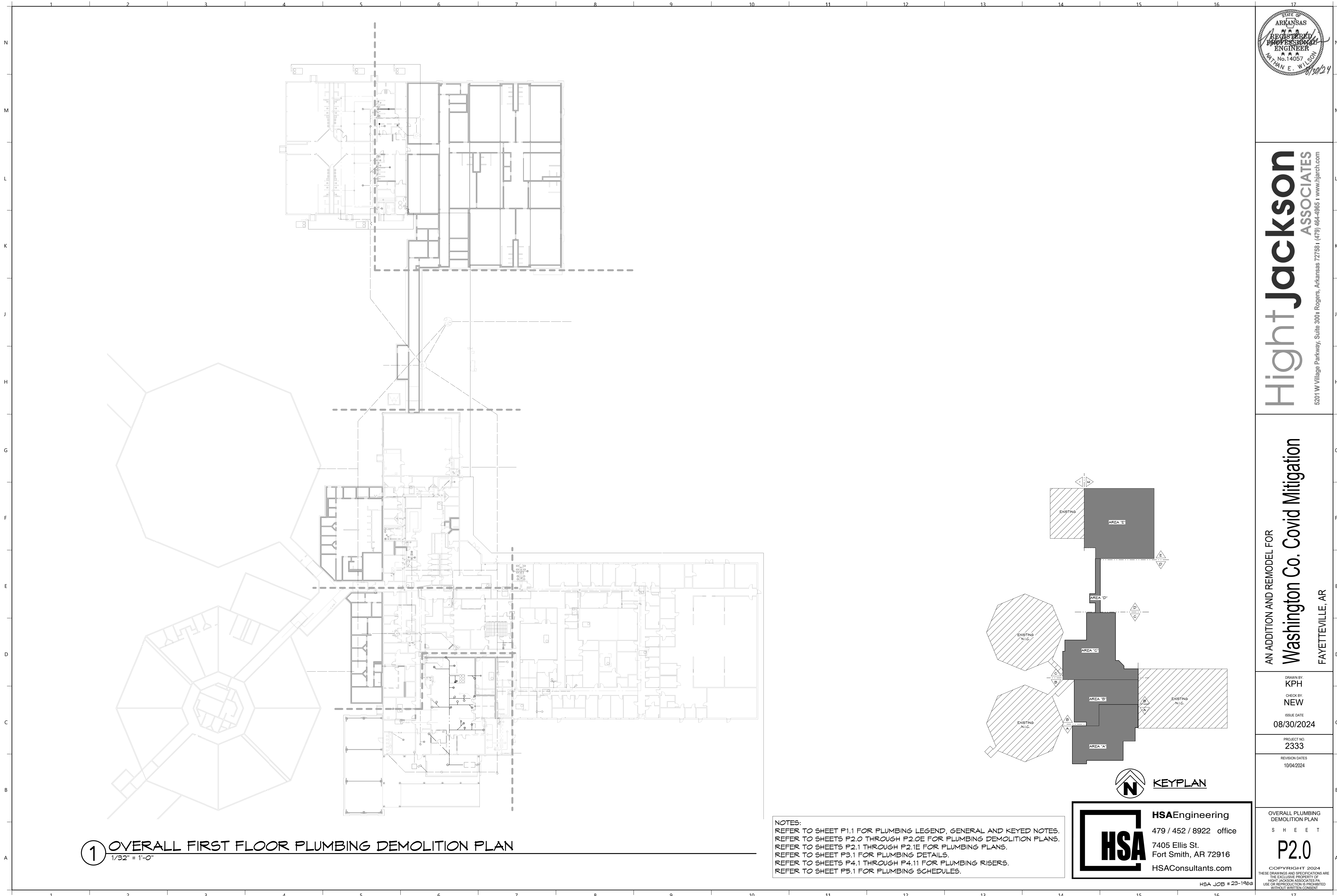
PLUMBING NOTES & LEGEND
S H E E T
P1.1

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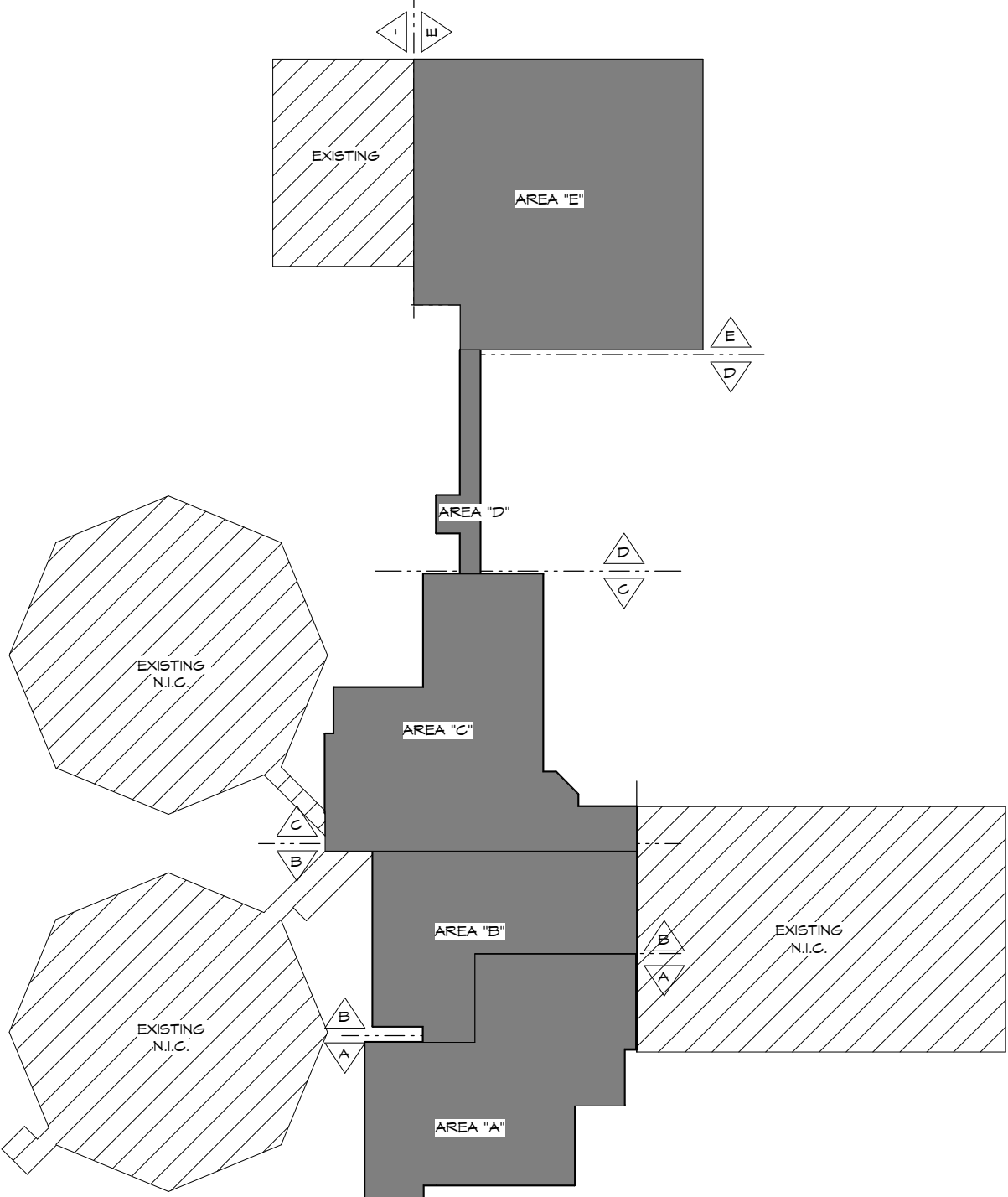


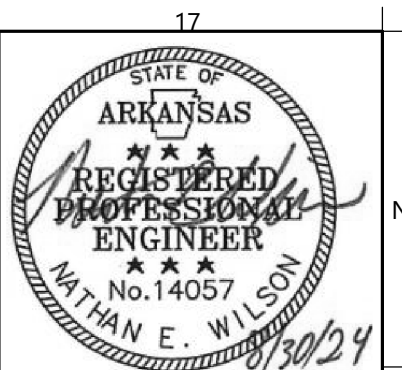
1 OVERALL FIRST FLOOR PLUMBING DEMOLITION PLAN
1/32" = 1'-0"

NOTES:
REFER TO SHEET P1.1 FOR PLUMBING LEGEND, GENERAL AND KEYED NOTES.
REFER TO SHEETS P2.0 THROUGH P2.0E FOR PLUMBING DEMOLITION PLANS.
REFER TO SHEETS P2.1 THROUGH P2.1E FOR PLUMBING PLANS.
REFER TO SHEET P3.1 FOR PLUMBING DETAILS.
REFER TO SHEETS P4.1 THROUGH P4.11 FOR PLUMBING RISERS.
REFER TO SHEET P5.1 FOR PLUMBING SCHEDULES.



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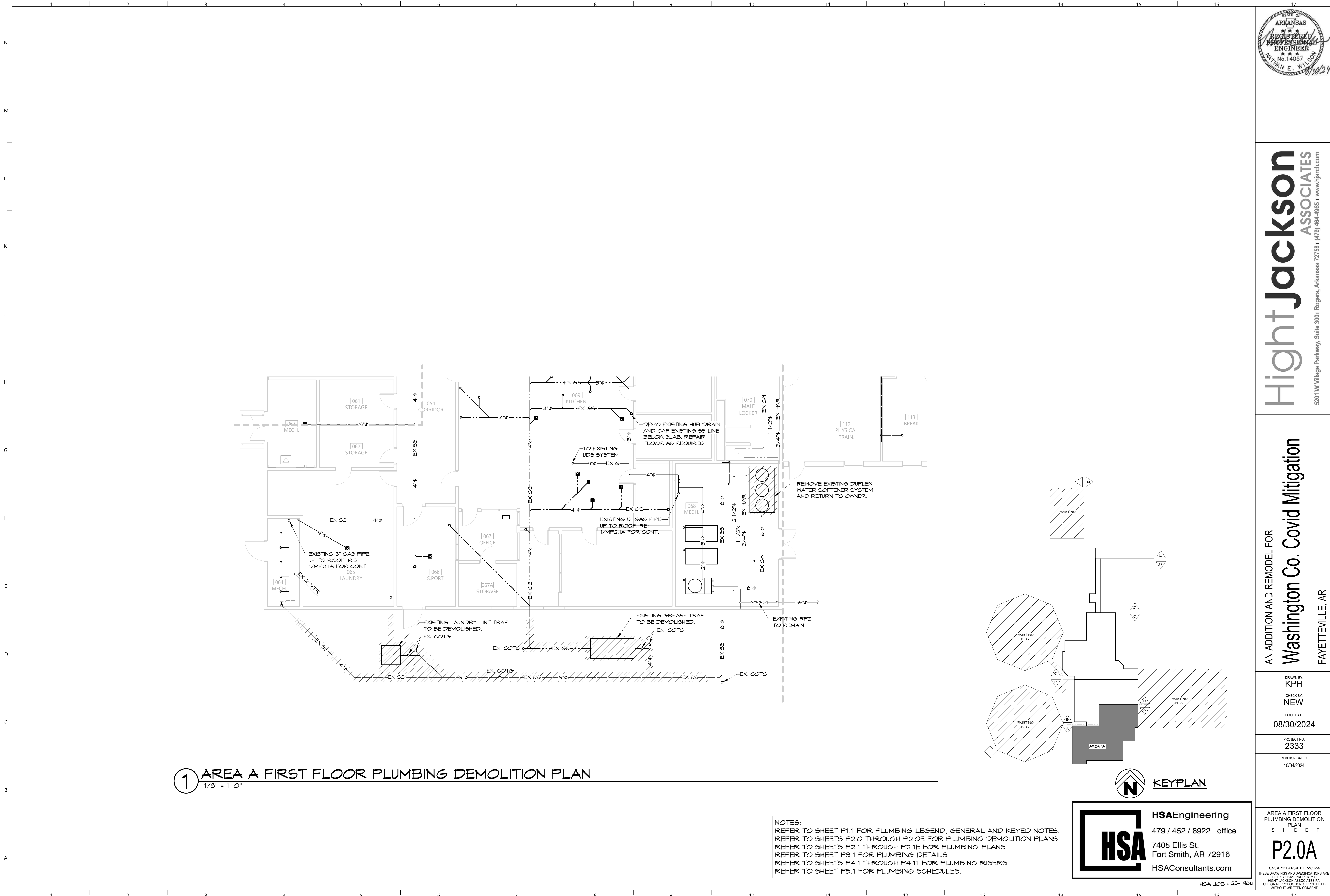
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REVISION DATES
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OVERALL PLUMBING
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P2.0
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1 AREA A FIRST FLOOR PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

NOTES:
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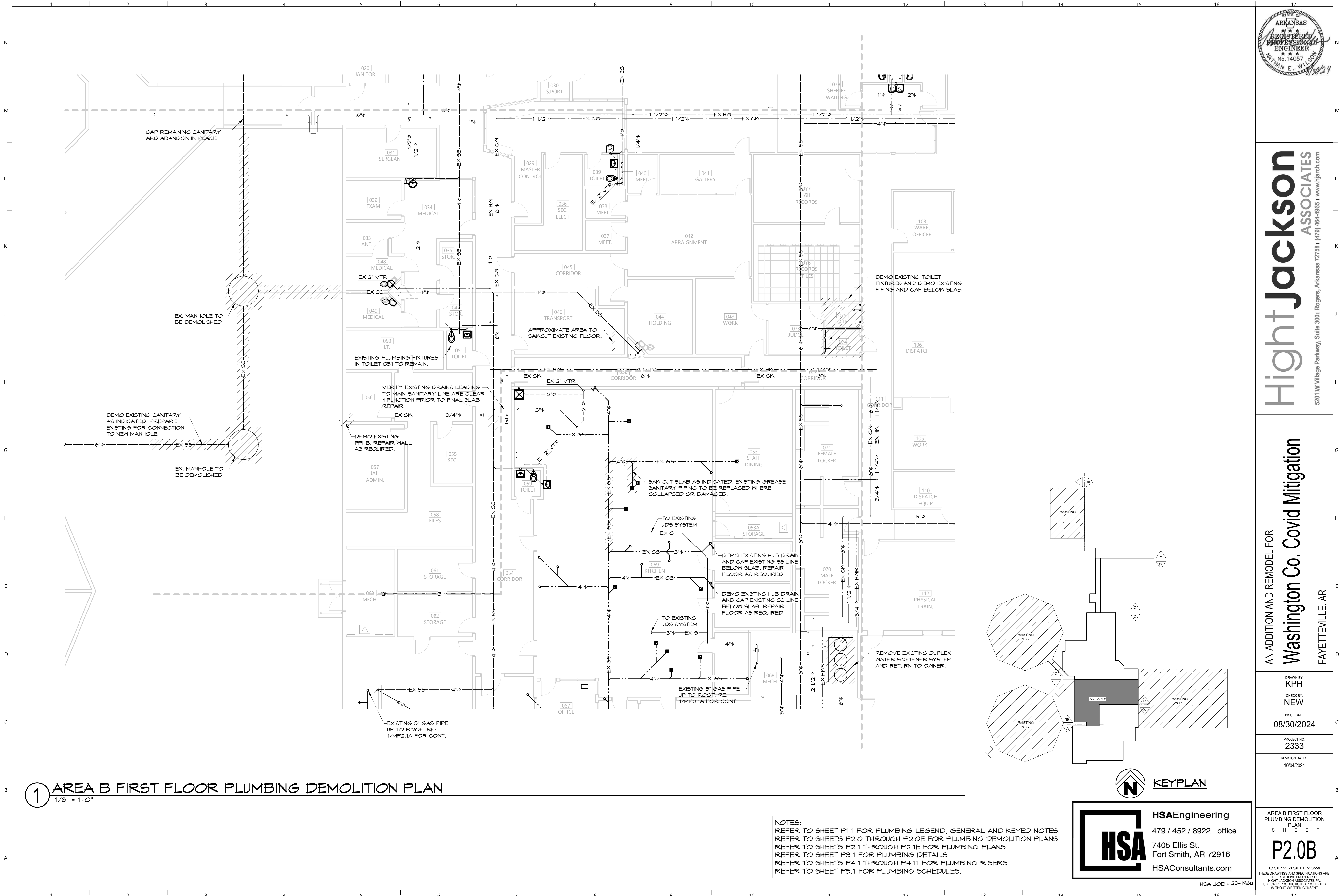
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AREA A FIRST FLOOR
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1 AREA B FIRST FLOOR PLUMBING DEMOLITION PLAN
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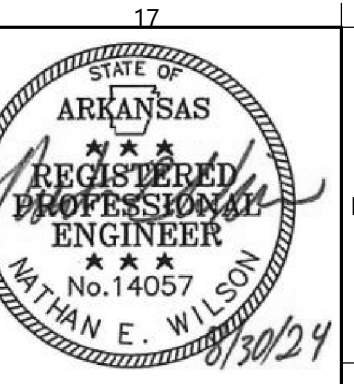
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AREA B FIRST FLOOR
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AREA C FIRST FLOOR
PLUMBING DEMOLITION
PLAN
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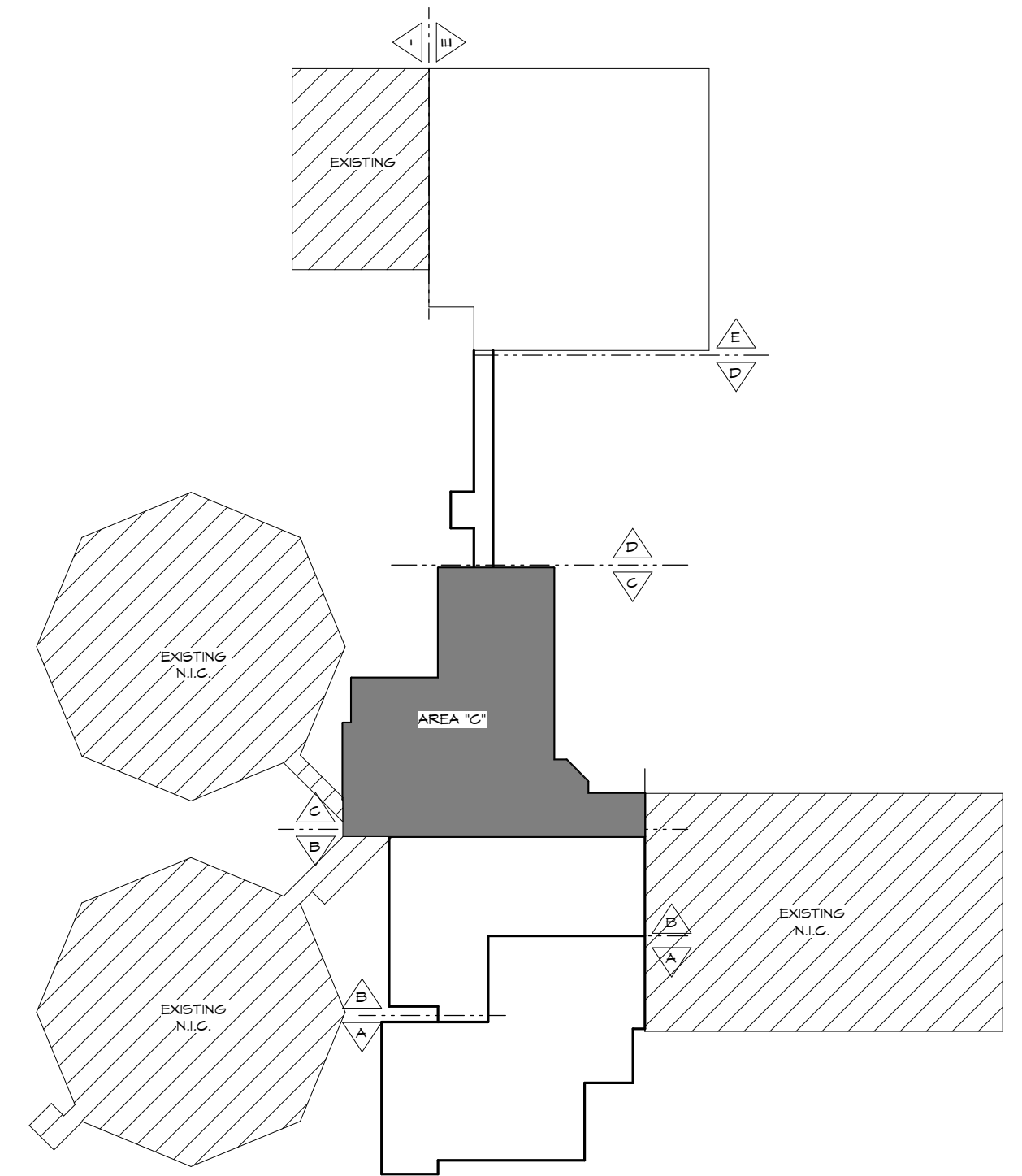
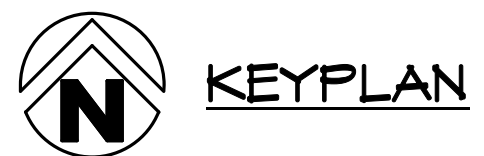
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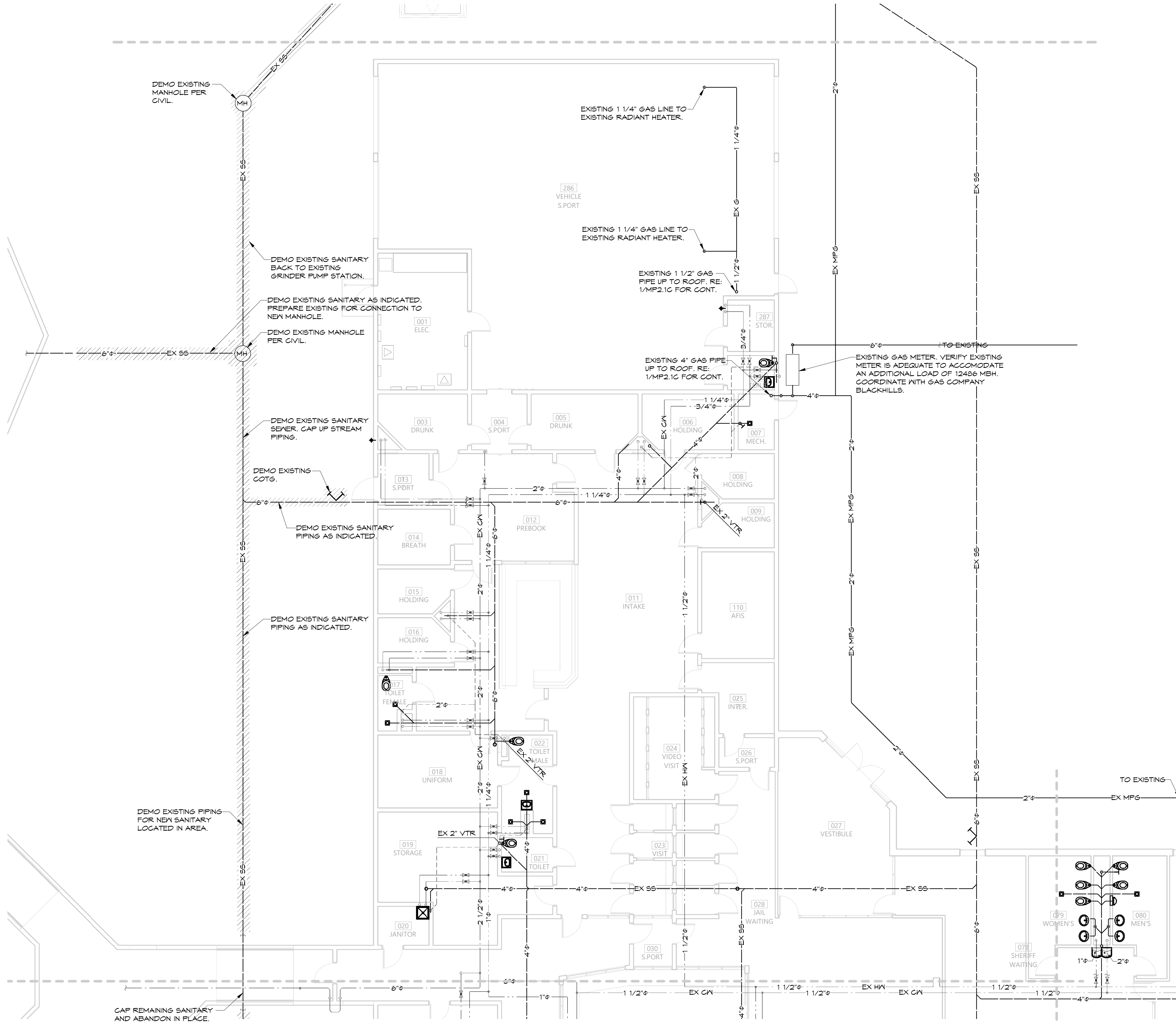
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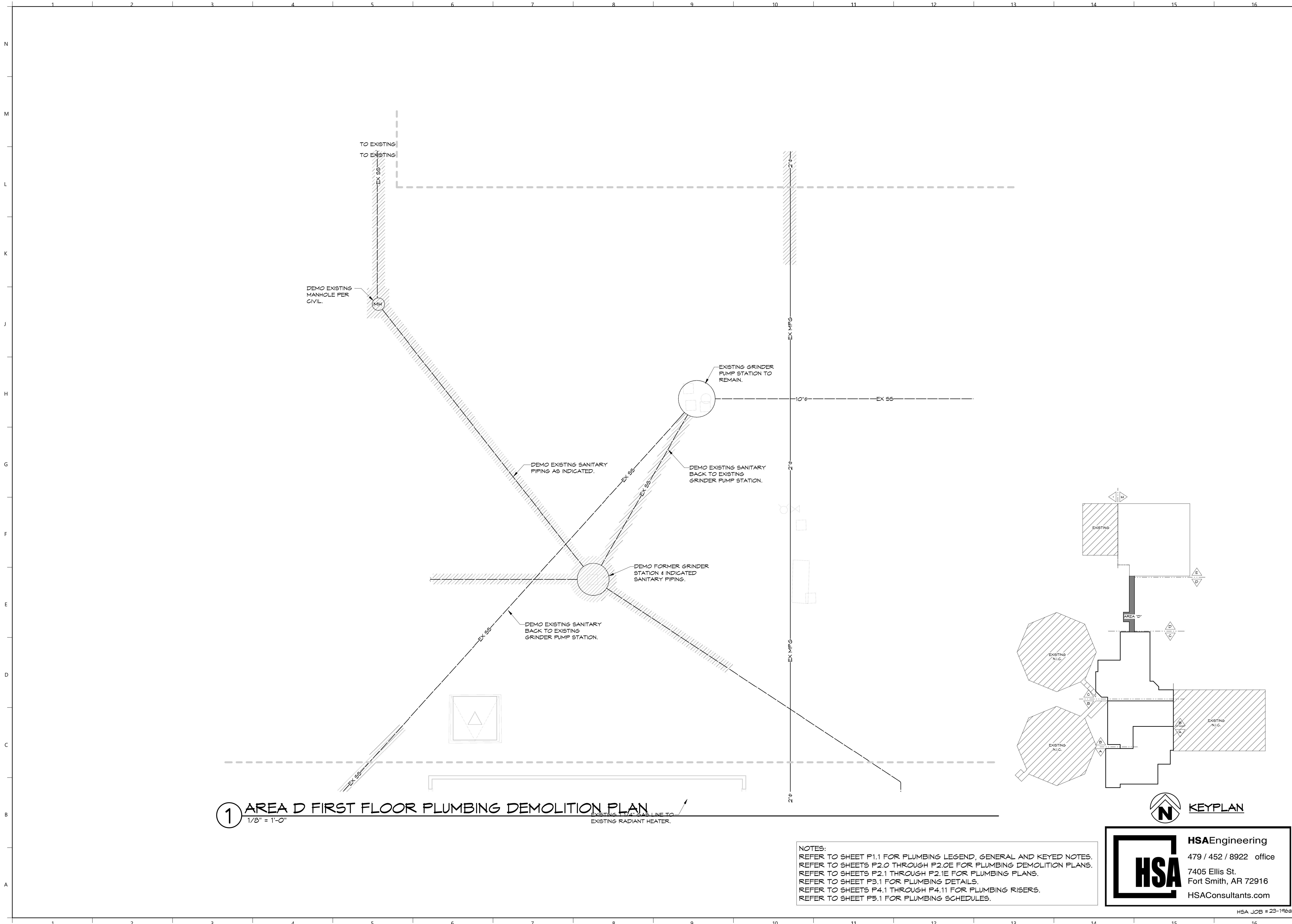


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REFER TO SHEET P5.1 FOR PLUMBING SCHEDULES.

1 AREA C FIRST FLOOR PLUMBING DEMOLITION PLAN

1/8" = 1'-0"



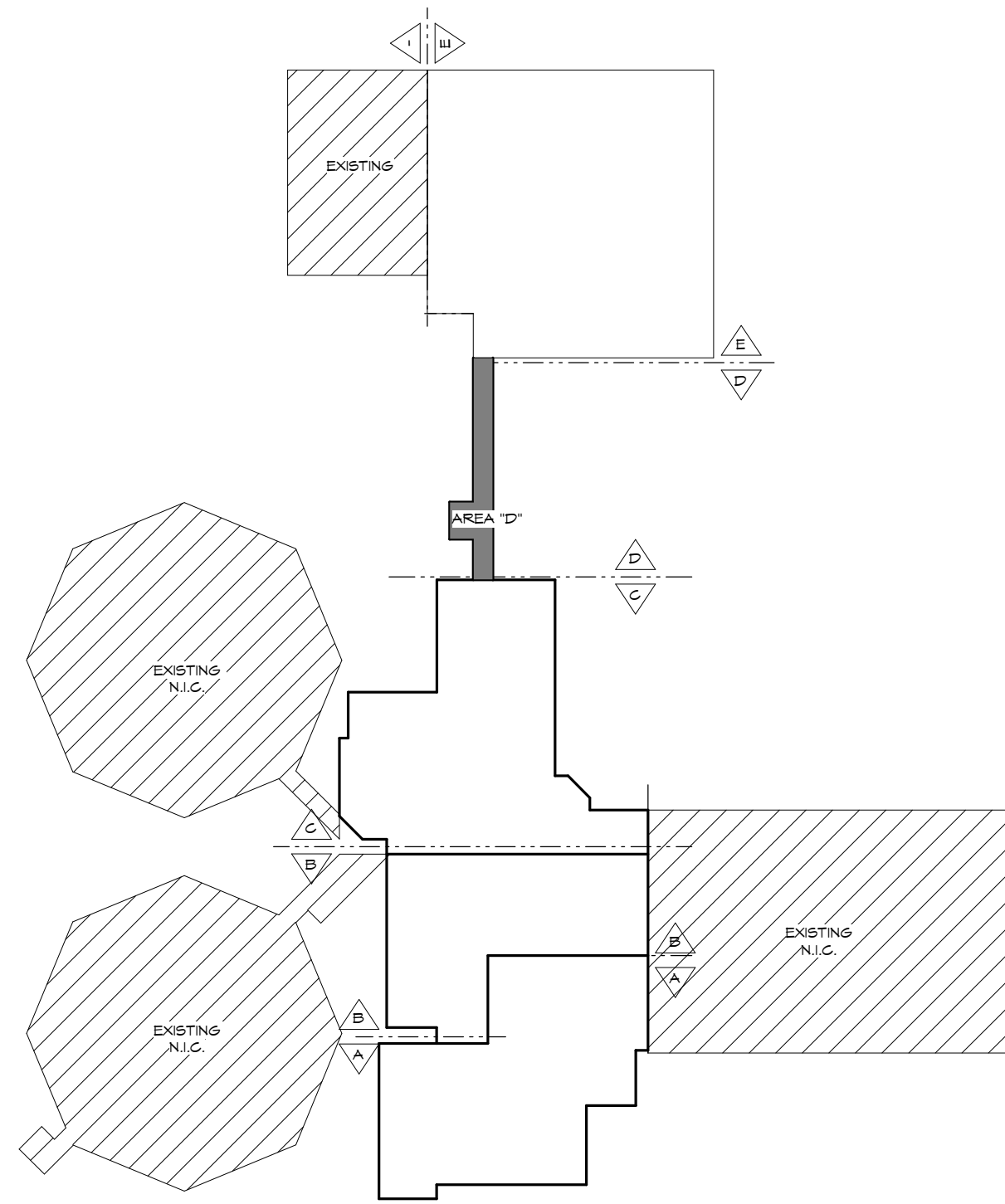



1 AREA D FIRST FLOOR PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

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REFER TO SHEET P5.1 FOR PLUMBING SCHEDULES.



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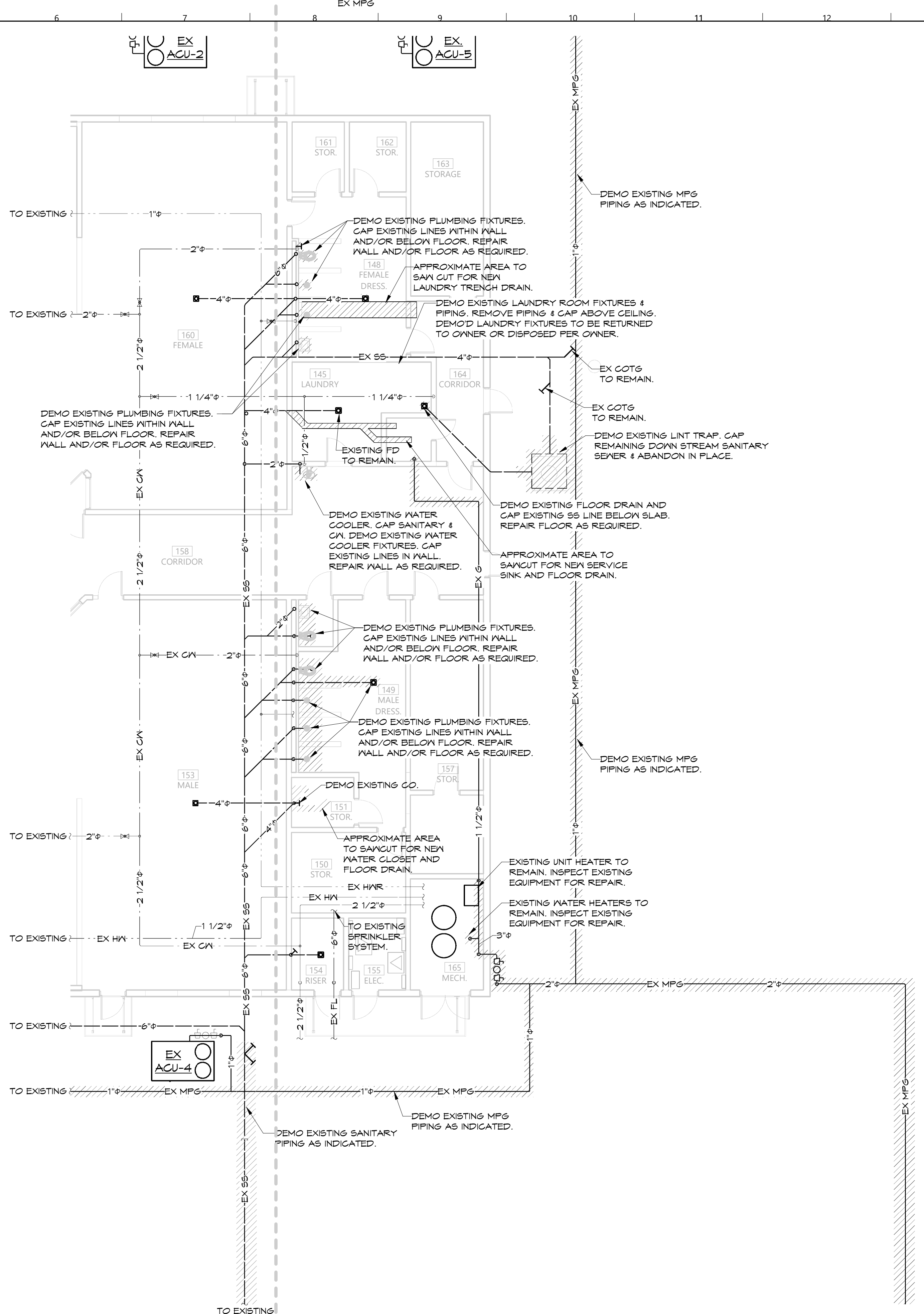
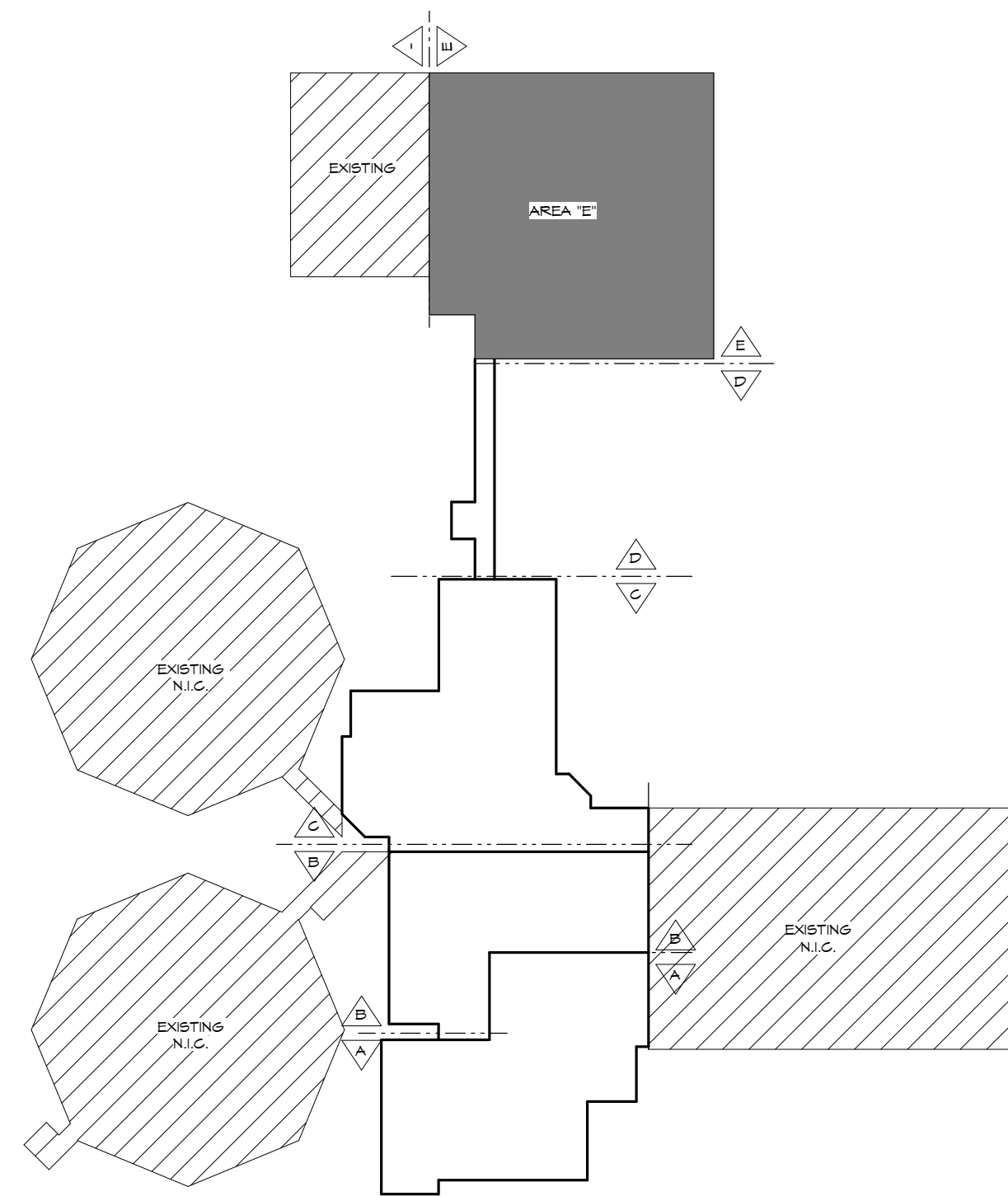
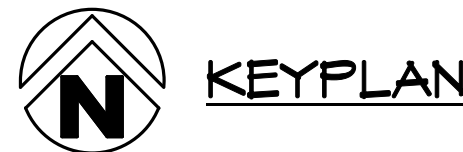
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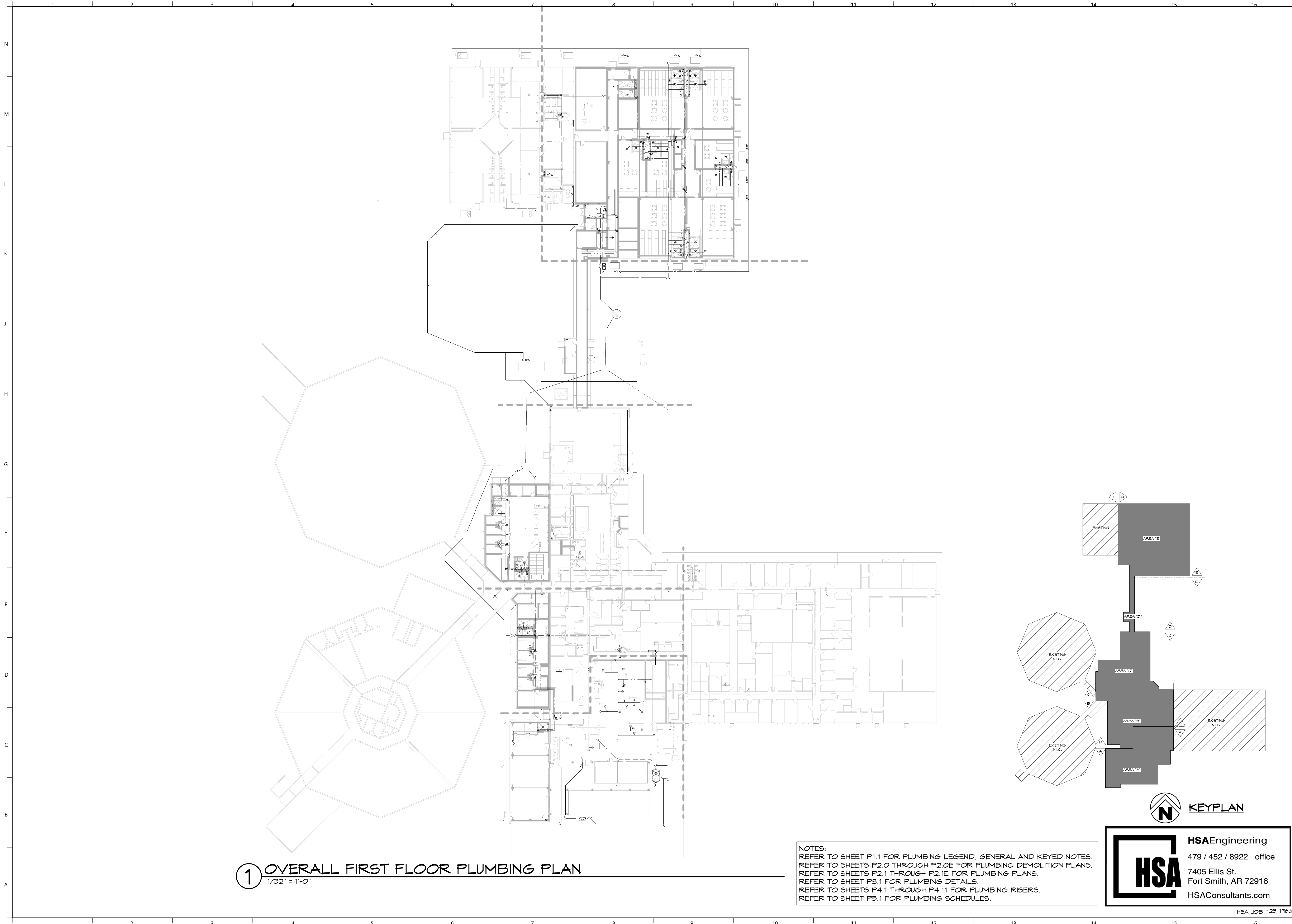
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AREA E FIRST FLOOR
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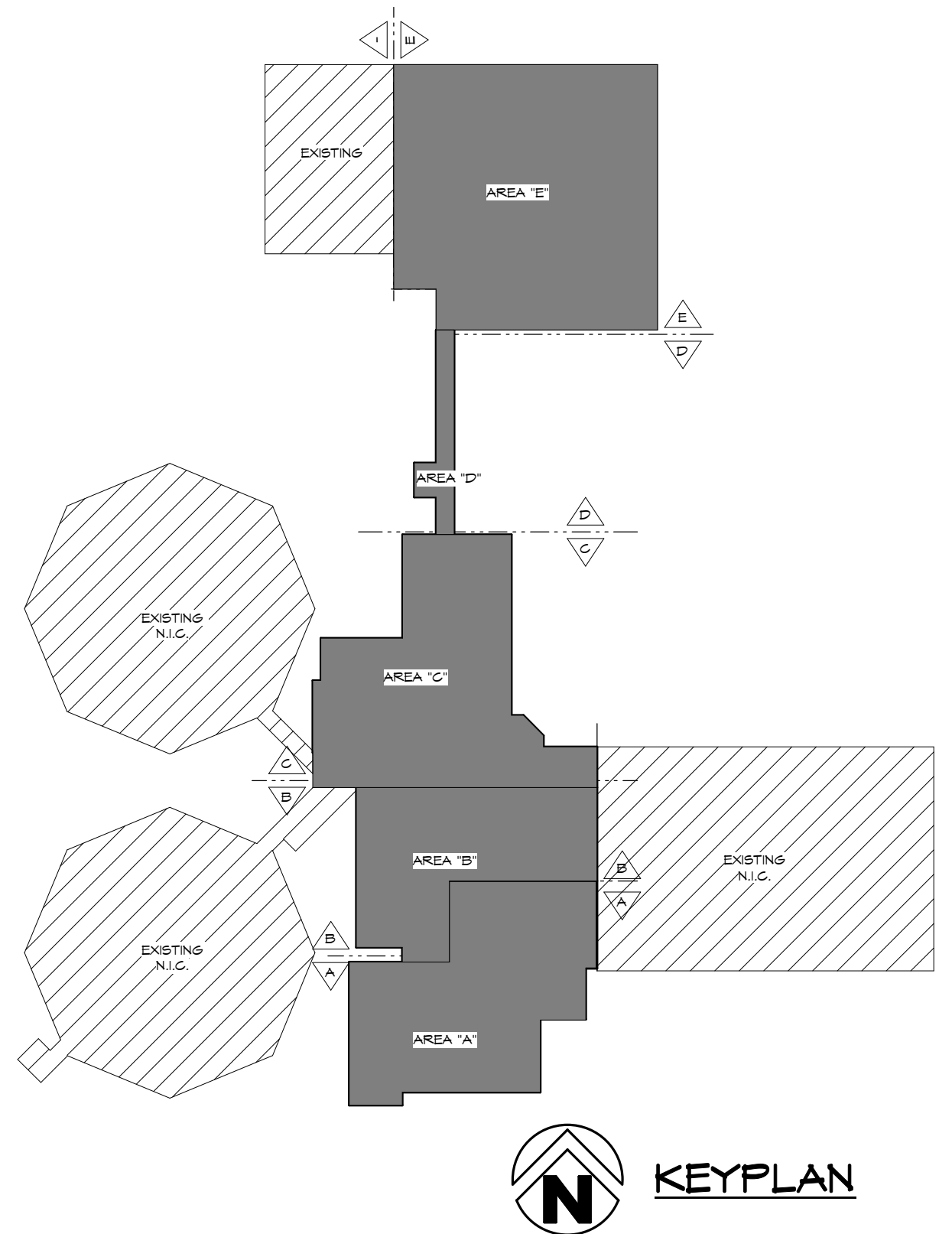
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1 OVERALL FIRST FLOOR PLUMBING PLAN
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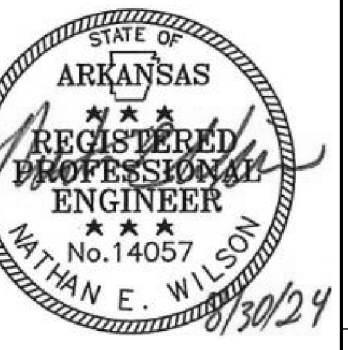
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OVERALL PLUMBING PLAN
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AREA B FIRST FLOOR
PLUMBING PLAN

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SEISMIC DESIGN INFORMATION

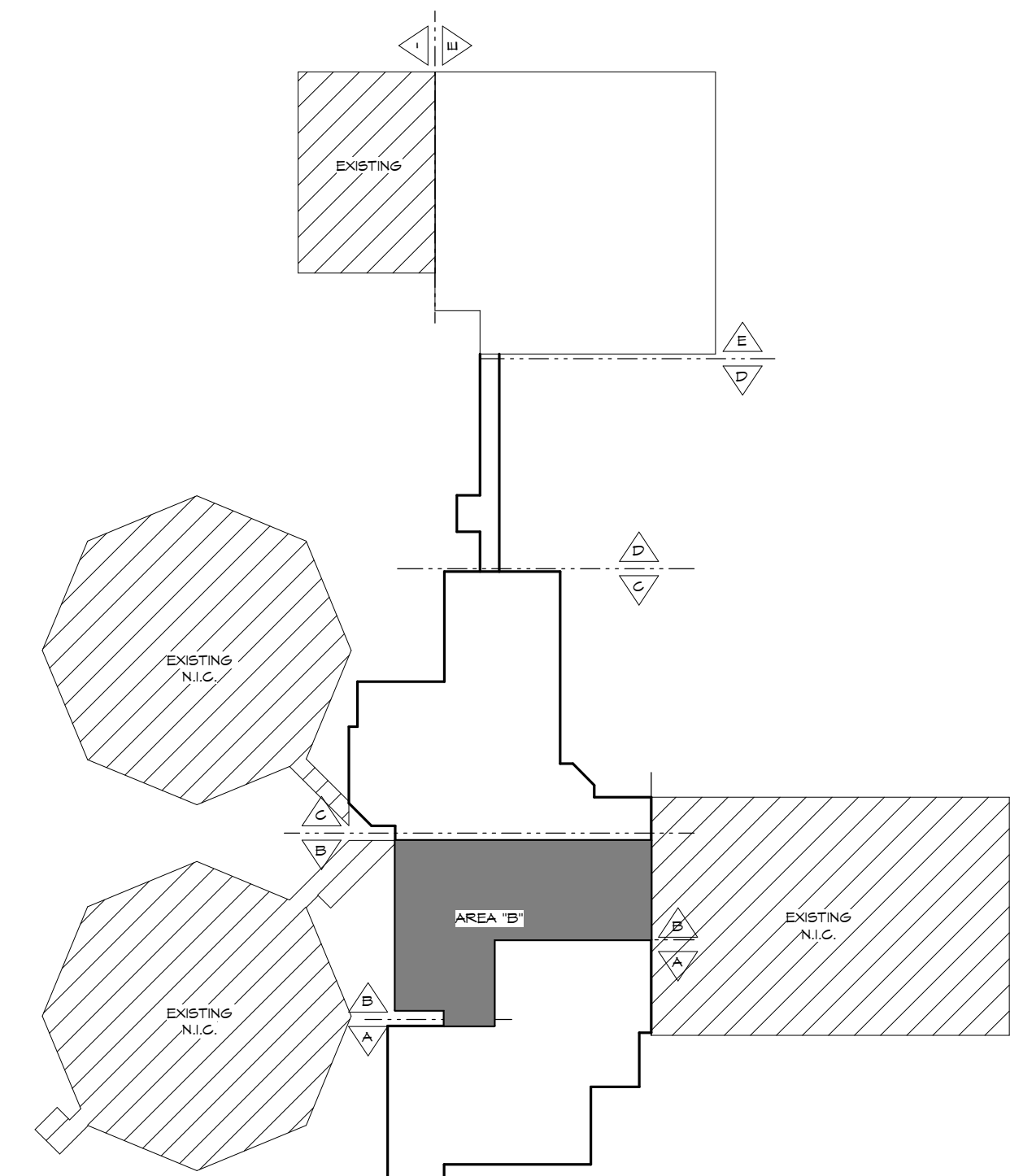
THE FOLLOWING IS TO HAVE A COMPONENT IMPORTANCE FACTOR OF 1.5. ALL OTHER MECHANICAL ITEMS ARE TO HAVE A COMPONENT IMPORTANCE FACTOR OF 1.0:

- SMOKE CONTROL EXHAUST AND SUPPLY FANS
- ALL DUCTWORK AND DAMPERS ASSOCIATED WITH SMOKE CONTROL SYSTEMS
- GAS PIPING.

VIBRATION ISOLATION OF HVAC EQUIPMENT, PIPING SYSTEMS, AND DUCTWORK IS NOT REQUIRED UNLESS INDICATED SPECIFICALLY ON DRAWINGS OR SCHEDULES. REFER TO SPECIFICATIONS FOR MORE INFORMATION. REFER TO STRUCTURAL DRAWINGS FOR BUILDING SEISMIC DESIGN INFORMATION.

PLUMBING KEYED NOTES

1. INSTALL AN APPROVED TRAP GUARD PRODUCT THAT CONFORMS TO NSF-14, CSA B602-99 AND CSA B79-94.
2. COORDINATE UNDERSLAB PIPING WITH STRUCTURAL FOOTINGS. REFER TO STRUCTURAL PLANS FOR LOCATIONS AND SIZES OF FOOTINGS.
3. PROVIDE AND INSTALL 6 INCH DIRT LEG AND GAS STOP (BALL VALVE ONLY) AT ALL EQUIPMENT GAS CONNECTIONS. REFER TO DETAIL 7/P3.1.
4. MECHANICAL CONTRACTOR SHALL NOT INSTALL ANY WATER LINES ABOVE ELECTRICAL PANELS. REFER TO ELECTRICAL PLANS FOR PANEL LOCATIONS.
5. IDENTIFY OUTDOOR UNDERGROUND LINES WITH CONTINUOUS STRIP OF PLASTIC UTILITY MARKER. TAPE SHOULD STATE AT REGULAR INTERVALS: "CAUTION (STATE UTILITY) PIPE BELOW". INSTALL TAPE ONE FOOT DIRECTLY ABOVE PIPE BEFORE BACKFILLING TO GRADE.
6. MECHANICAL CONTRACTOR TO PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER (RPZ) AND PRESSURE REDUCING VALVE (IF REQUIRED) AT THE DOMESTIC WATER SERVICE ENTRANCE IN BUILDING. THERE SHALL BE NO WYES OR TEES PRIOR TO THE RPZ. PROVIDE MATTS MODEL LF909 OR APPROVED EQUAL RPZ. REFER TO 3/P3.2 FOR DETAIL.
7. MAINTAIN A MINIMUM OF 10 FOOT CLEARANCE BETWEEN THE NEW WATER LINES AND NEW SANITARY SEWER PIPE.
8. MECHANICAL CONTRACTOR SHALL INSTALL DUCTILE IRON SLEEVE ON NEW WATER LINES WHERE THEY CROSS ABOVE ANY SANITARY SEWER LINES. SLEEVE SHALL BE 10 FEET IN BOTH DIRECTIONS OF THE SANITARY SEWER PIPE CENTER LINE.
9. PROVIDE ACCESS PANEL WITHIN B112 RR TO ACCESS DETENTION FIXTURES IN B113 RR.



KEYPLAN

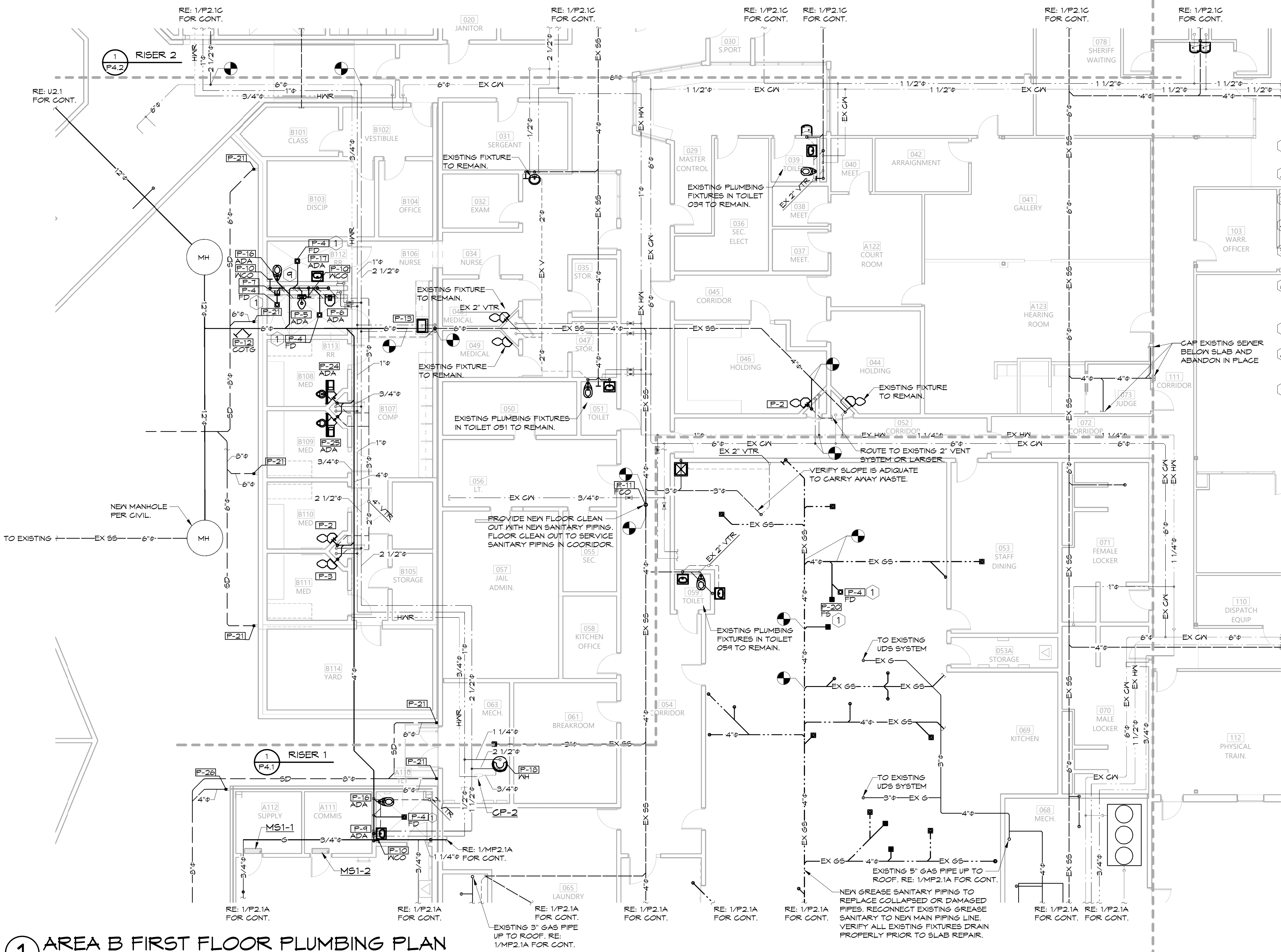
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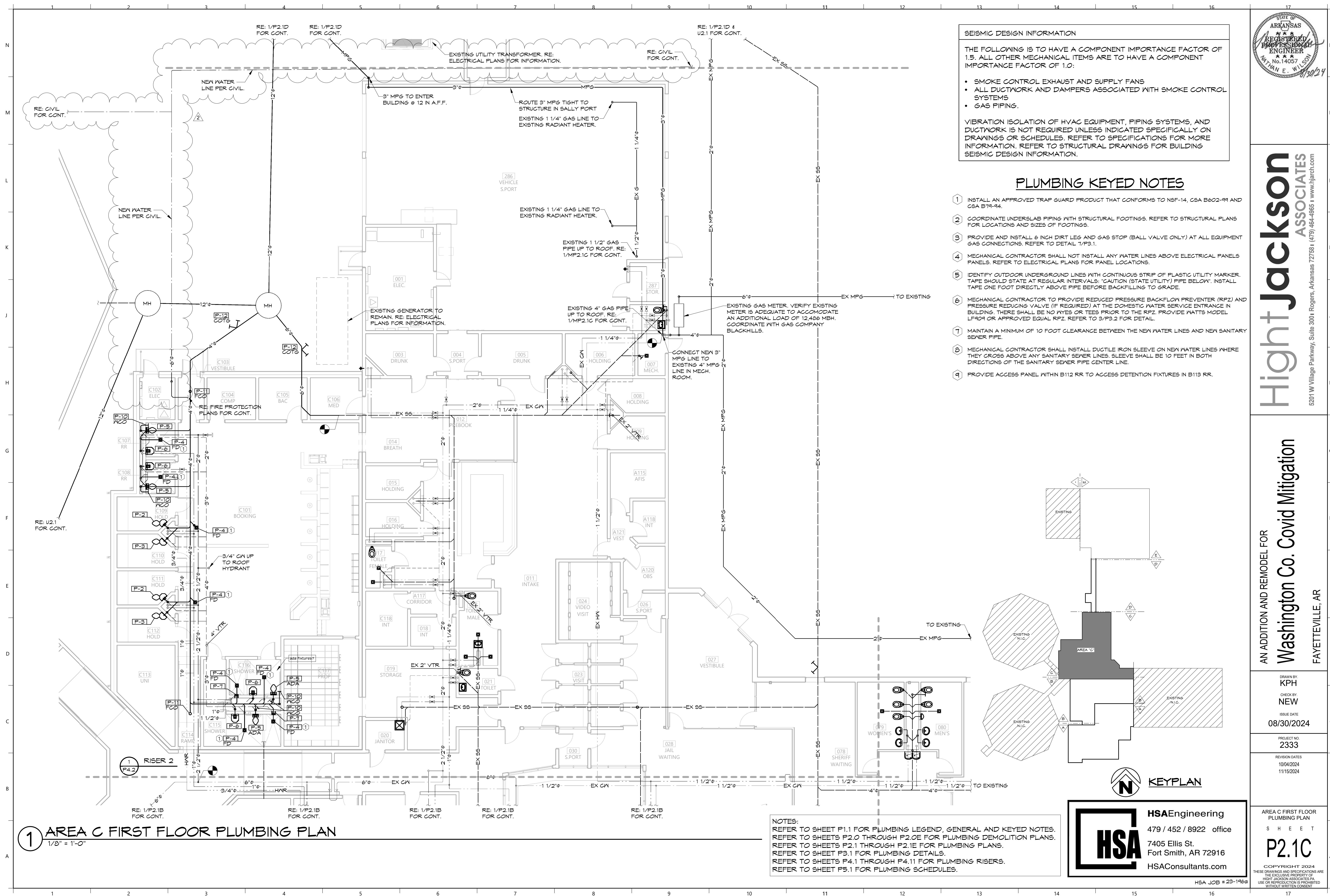
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REFER TO SHEET P5.1 FOR PLUMBING SCHEDULES.

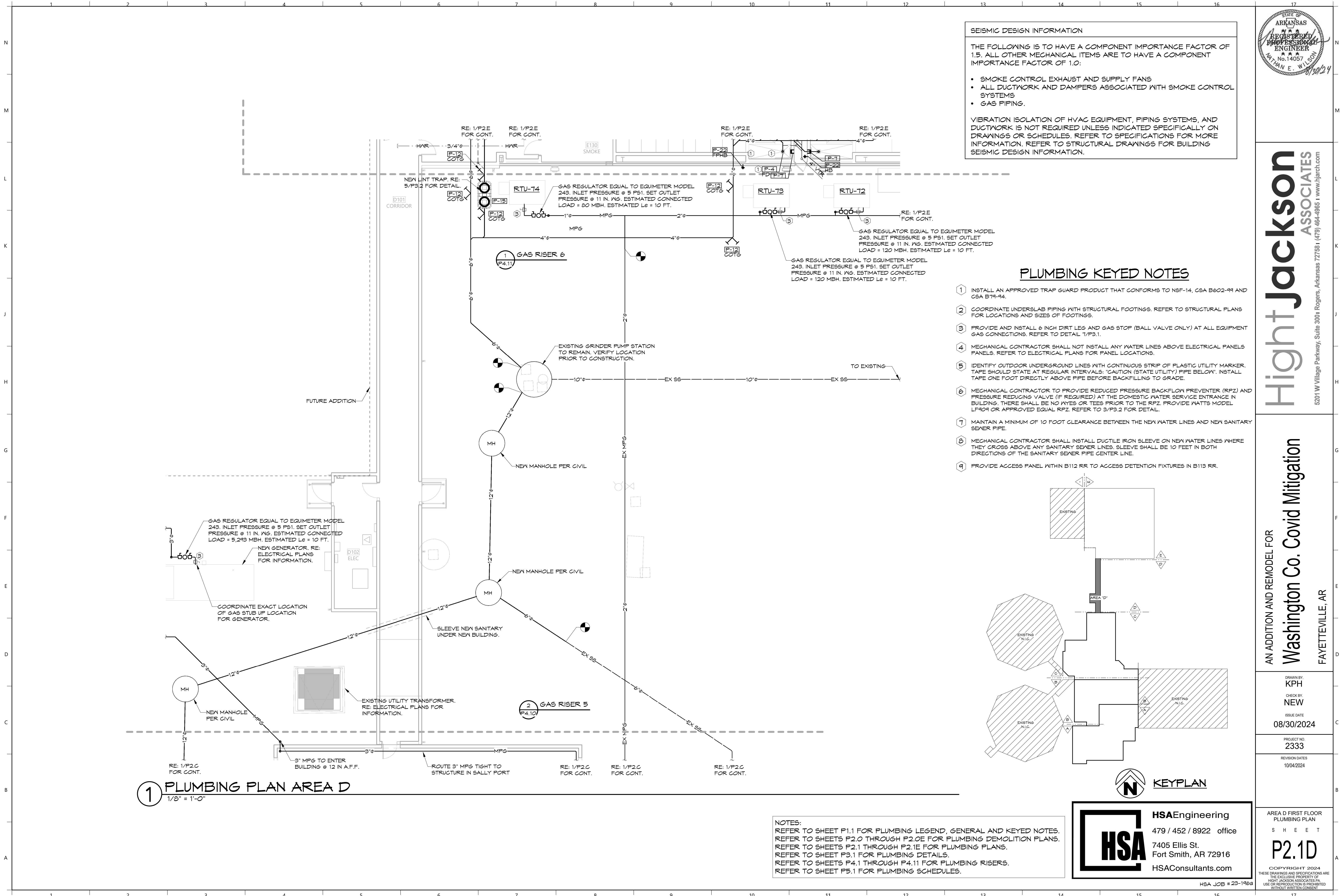


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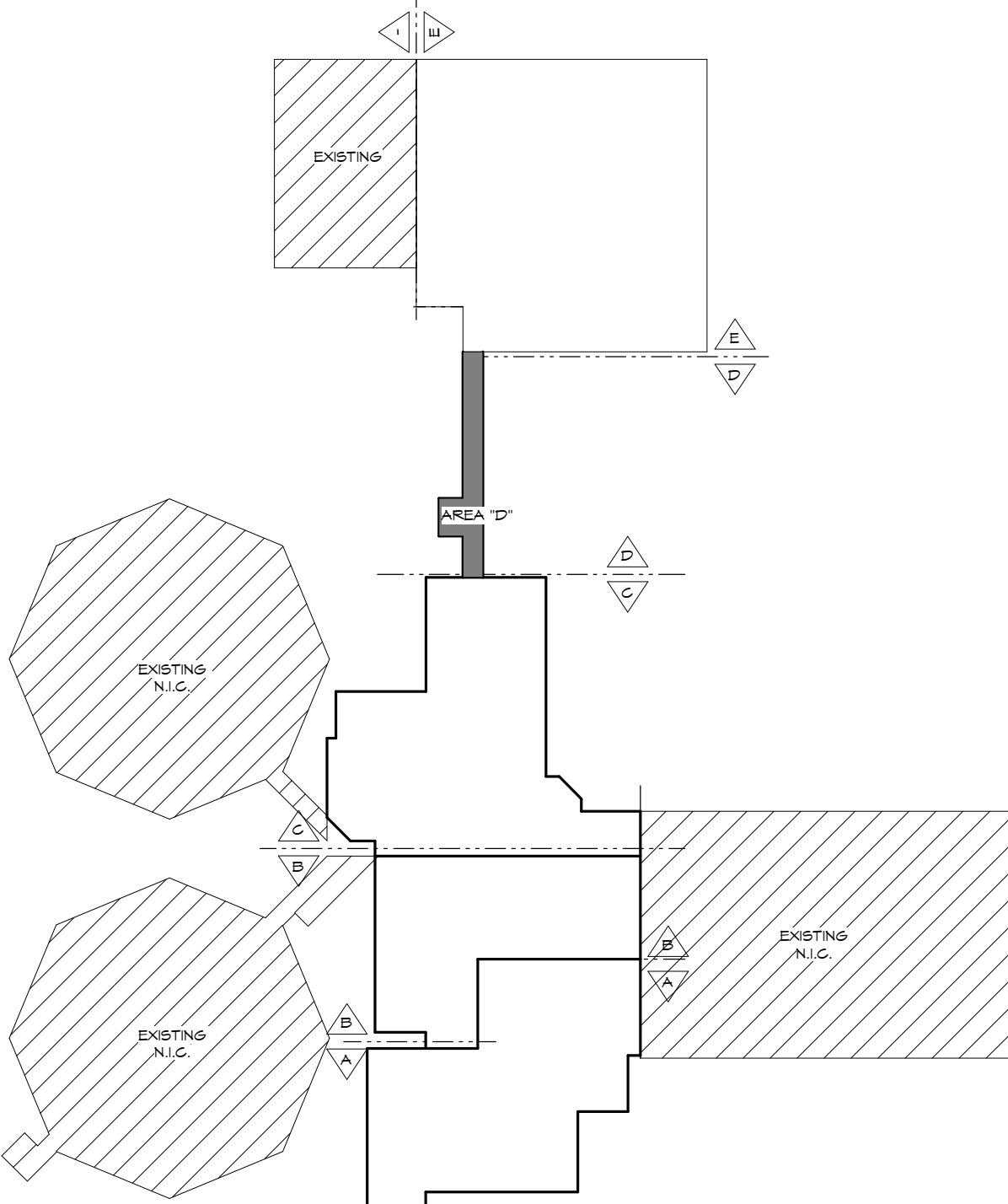
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3. PROVIDE AND INSTALL 6 INCH DIRT LEG AND GAS STOP (BALL VALVE ONLY) AT ALL EQUIPMENT GAS CONNECTIONS. REFER TO DETAIL T/P3.1.
4. MECHANICAL CONTRACTOR SHALL NOT INSTALL ANY WATER LINES ABOVE ELECTRICAL PANELS. REFER TO ELECTRICAL PLANS FOR PANEL LOCATIONS.
5. IDENTIFY OUTDOOR UNDERGROUND LINES WITH CONTINUOUS STRIP OF PLASTIC UTILITY MARKER. TAPE SHOULD STATE AT REGULAR INTERVALS: "CAUTION (STATE UTILITY) PIPE BELOW". INSTALL TAPE ONE FOOT DIRECTLY ABOVE PIPE BEFORE BACKFILLING TO GRADE.
6. MECHANICAL CONTRACTOR TO PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER (RPZ) AND PRESSURE REDUCING VALVE (IF REQUIRED) AT THE DOMESTIC WATER SERVICE ENTRANCE IN BUILDING. THERE SHALL BE NO WYES OR TEES PRIOR TO THE RPZ. PROVIDE WATTS MODEL LF404 OR APPROVED EQUAL RPZ. REFER TO 3/P3.2 FOR DETAIL.
7. MAINTAIN A MINIMUM OF 10 FOOT CLEARANCE BETWEEN THE NEW WATER LINES AND NEW SANITARY SEWER PIPE.
8. MECHANICAL CONTRACTOR SHALL INSTALL DUCTILE IRON SLEEVE ON NEW WATER LINES WHERE THEY CROSS ABOVE ANY SANITARY SEWER LINES. SLEEVE SHALL BE 10 FEET IN BOTH DIRECTIONS OF THE SANITARY SEWER PIPE CENTER LINE.
9. PROVIDE ACCESS PANEL WITHIN B112 RR TO ACCESS DETENTION FIXTURES IN B113 RR.



KEYPLAN

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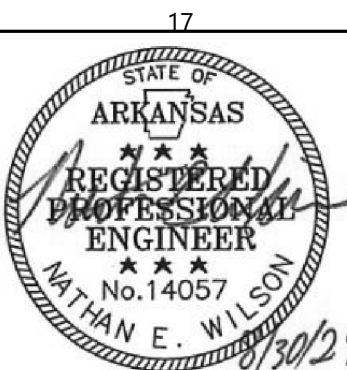
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No. 14057
NATHAN E. WILSON
8/30/24

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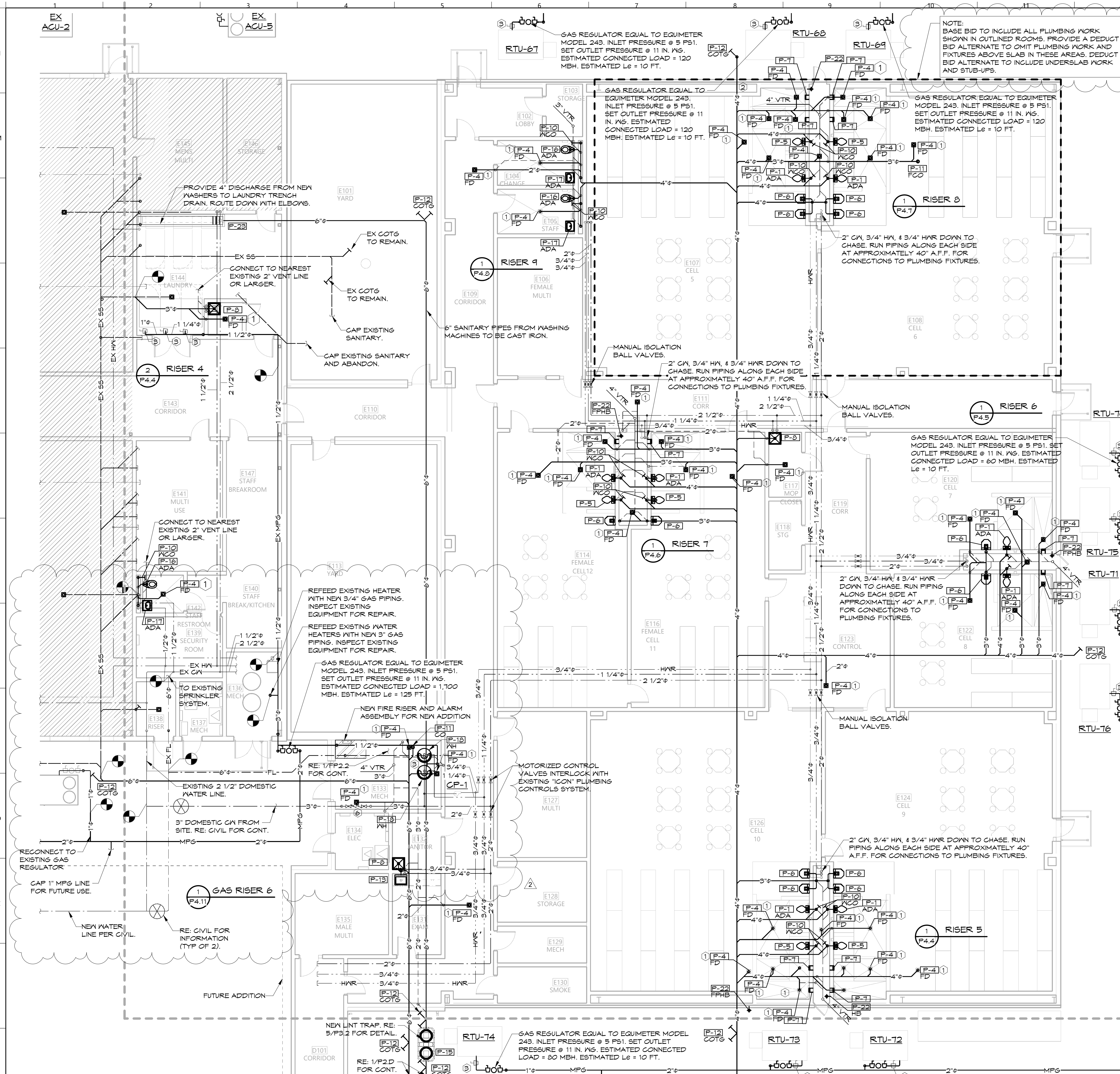
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AREA D FIRST FLOOR
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3. PROVIDE AND INSTALL 6 INCH DIRT LEG AND GAS STOP (BALL VALVE ONLY) AT ALL EQUIPMENT GAS CONNECTIONS. REFER TO DETAIL 7/P3.1.
4. MECHANICAL CONTRACTOR SHALL NOT INSTALL ANY WATER LINES ABOVE ELECTRICAL PANELS. REFER TO ELECTRICAL PLANS FOR PANEL LOCATIONS.
5. IDENTIFY OUTDOOR UNDERGROUND LINES WITH CONTINUOUS STRIP OF PLASTIC UTILITY MARKER. TAPE SHOULD STATE AT REGULAR INTERVALS: "CAUTION (STATE UTILITY) PIPE BELOW". INSTALL TAPE ONE FOOT DIRECTLY ABOVE PIPE BEFORE BACKFILLING TO GRADE.
6. MECHANICAL CONTRACTOR TO PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER (RPZ) AND PRESSURE REDUCING VALVE (IF REQUIRED) AT THE DOMESTIC WATER SERVICE ENTRANCE IN BUILDING. THERE SHALL BE NO WYES OR TEES PRIOR TO THE RPZ. PROVIDE WATTS MODEL LF409 OR APPROVED EQUAL RPZ. REFER TO 3/P3.2 FOR DETAIL.
7. MAINTAIN A MINIMUM OF 10 FOOT CLEARANCE BETWEEN THE NEW WATER LINES AND NEW SANITARY SEWER PIPE.
8. MECHANICAL CONTRACTOR SHALL INSTALL DUCTILE IRON SLEEVE ON NEW WATER LINES WHERE THEY CROSS ABOVE ANY SANITARY SEWER LINES. SLEEVE SHALL BE 10 FEET IN BOTH DIRECTIONS OF THE SANITARY SEWER PIPE CENTER LINE.
9. PROVIDE ACCESS PANEL WITHIN B112 RR TO ACCESS DETENTION FIXTURES IN B113 RR.

NOTES:
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REFER TO SHEET P3.1 FOR PLUMBING DETAILS.
REFER TO SHEETS P4.1 THROUGH P4.11 FOR PLUMBING RISERS.
REFER TO SHEET P5.1 FOR PLUMBING SCHEDULES.

GAS REGULATOR EQUAL TO EQUIMETER MODEL 243. INLET PRESSURE @ 5 PSI. SET OUTLET PRESSURE @ 11 IN. WG. ESTIMATED CONNECTED LOAD = 60 MBH. ESTIMATED L_e = 10 FT.

GAS REGULATOR EQUAL TO EQUIMETER MODEL 243. INLET PRESSURE @ 5 PSI. SET OUTLET PRESSURE @ 11 IN. WG. ESTIMATED CONNECTED LOAD = 60 MBH. ESTIMATED L_e = 10 FT.

GAS REGULATOR EQUAL TO EQUIMETER MODEL 243. INLET PRESSURE @ 5 PSI. SET OUTLET PRESSURE @ 11 IN. WG. ESTIMATED CONNECTED LOAD = 60 MBH. ESTIMATED L_e = 10 FT.



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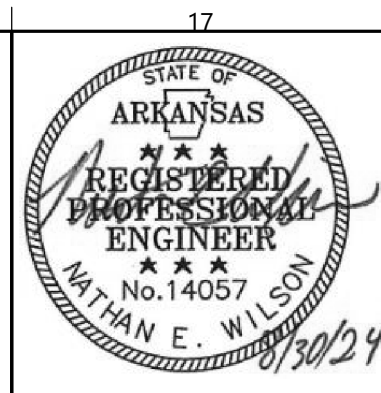
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1 AREA E FIRST FLOOR PLUMBING PLAN
1/8" = 1'-0"



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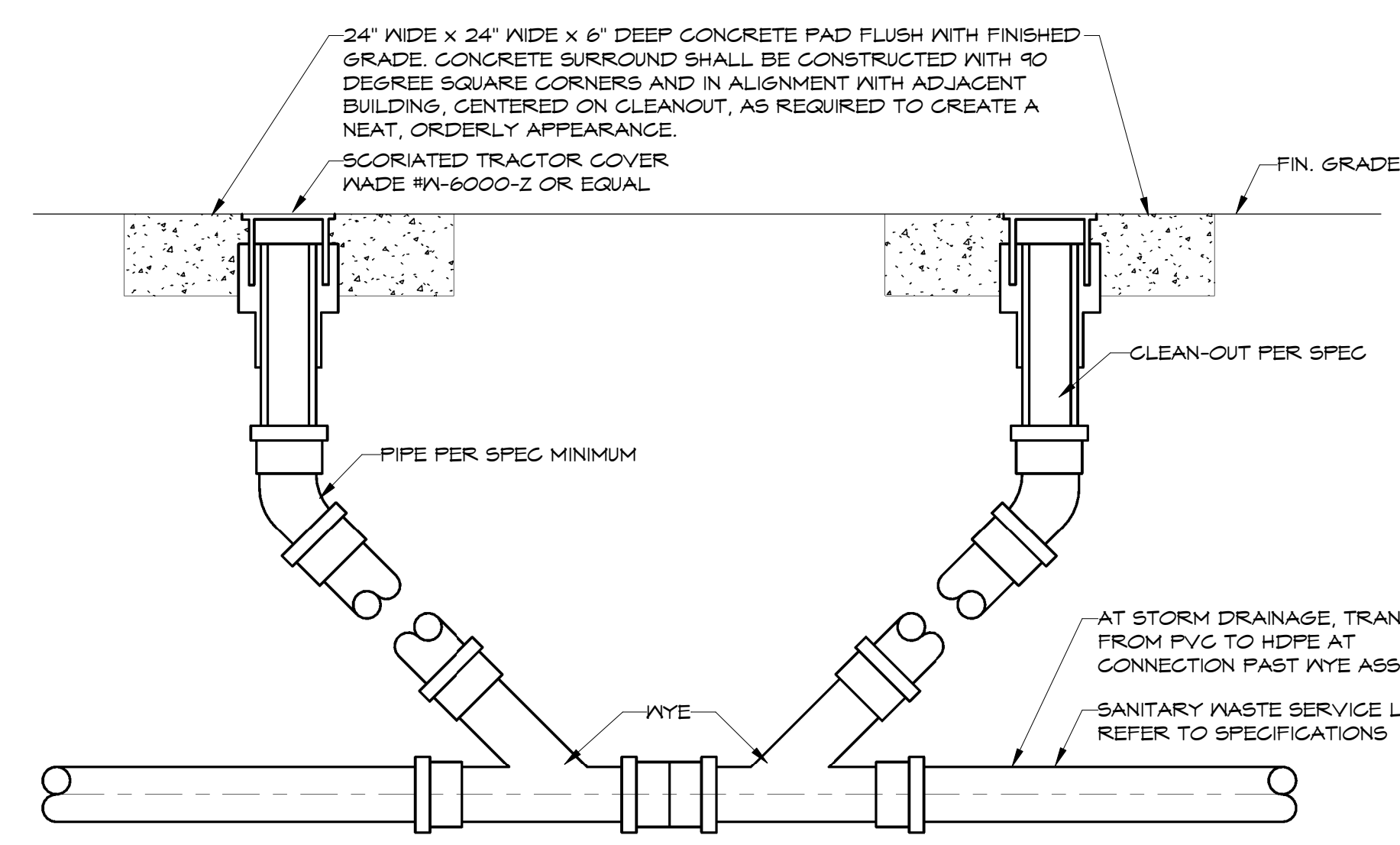
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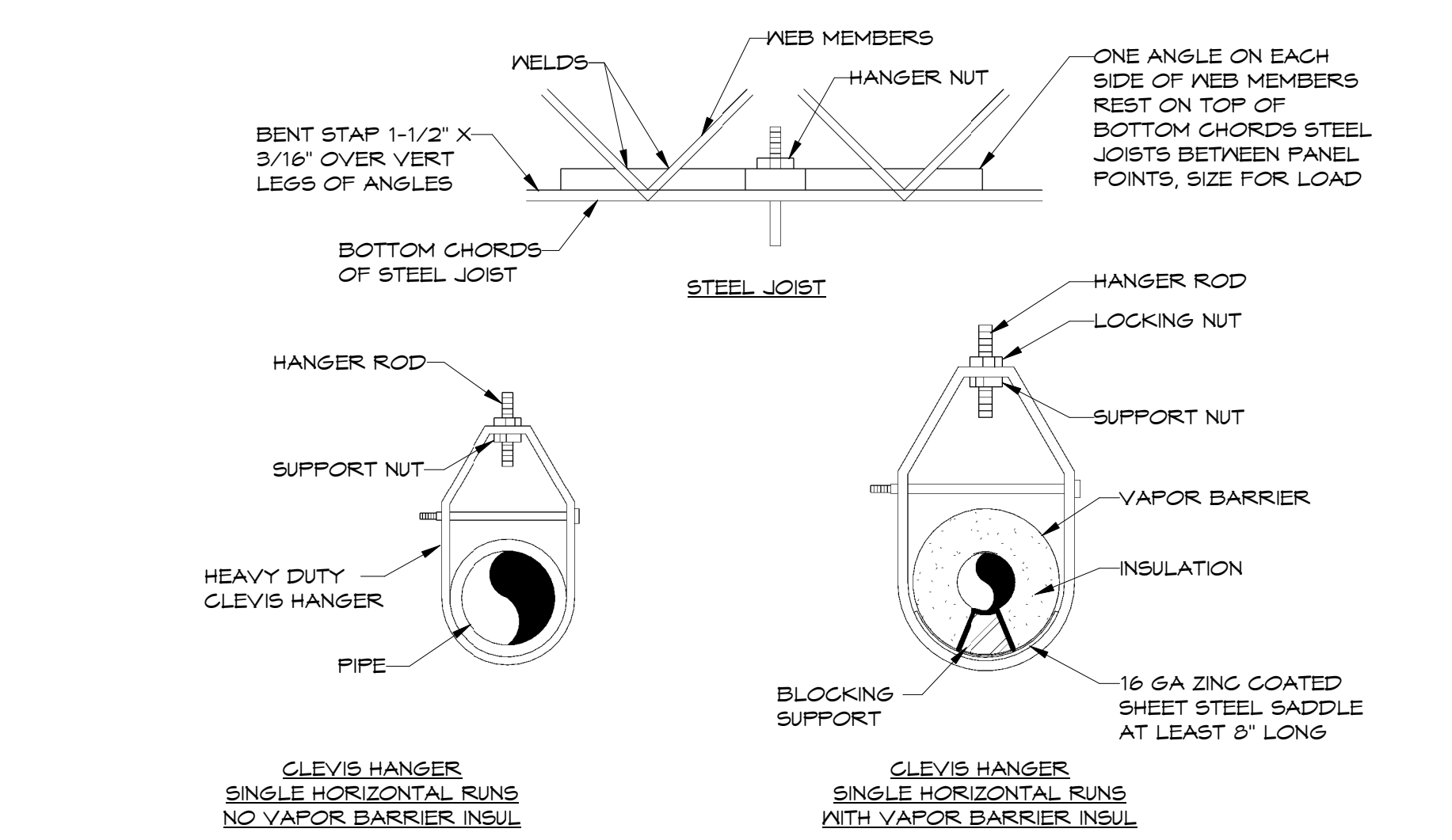
AREA E FIRST FLOOR
PLUMBING PLAN
SHEET
P2.1E

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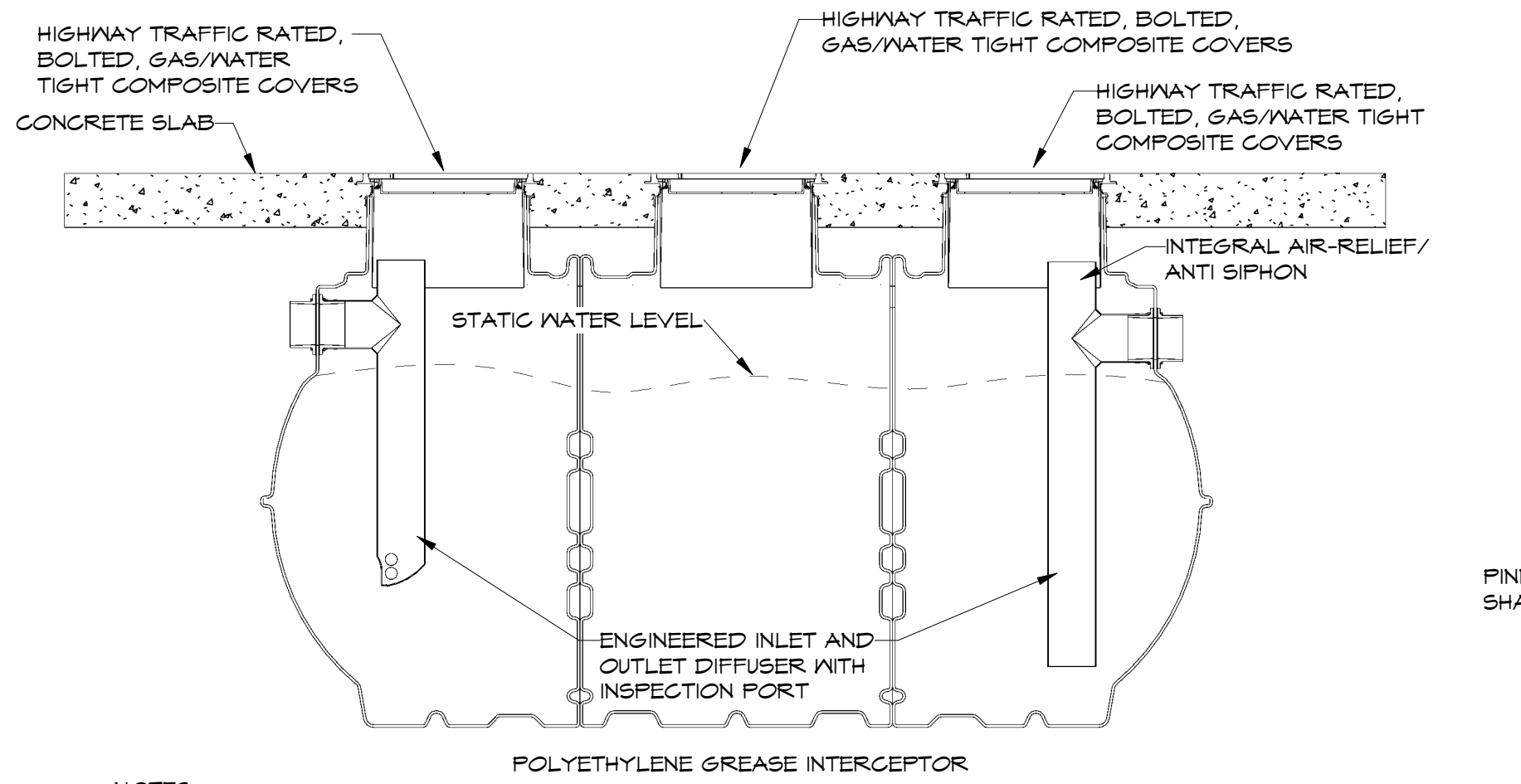


1 DOUBLE CLEAN OUT TO GRADE
NTS

HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	1/4" DIA	8" THRU 12"	1/2" DIA
2 1/2" UP TO 6"	3/8" DIA		

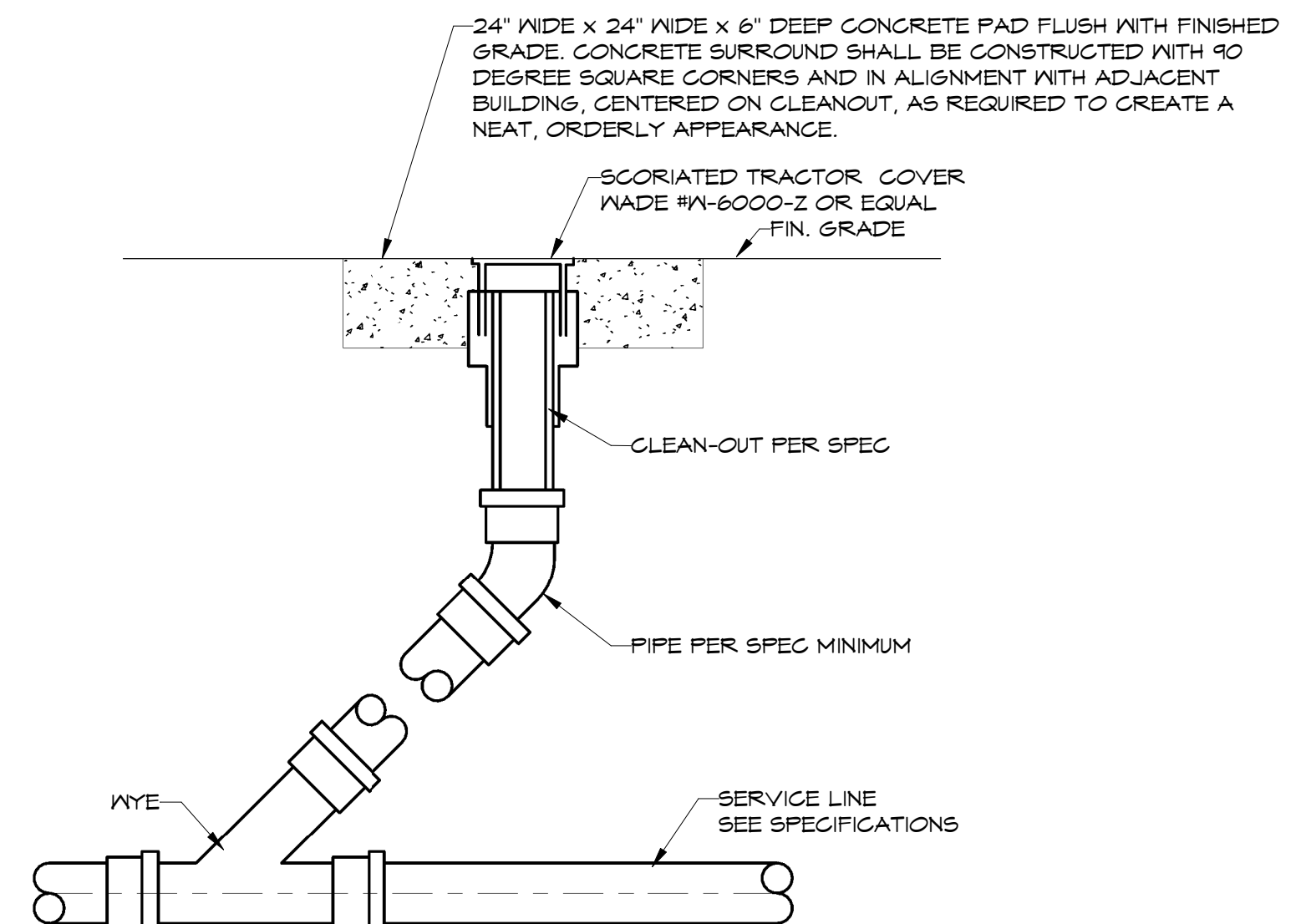


6 TYPICAL PIPE HANGER DETAIL-CLEVIS HANGER
NTS

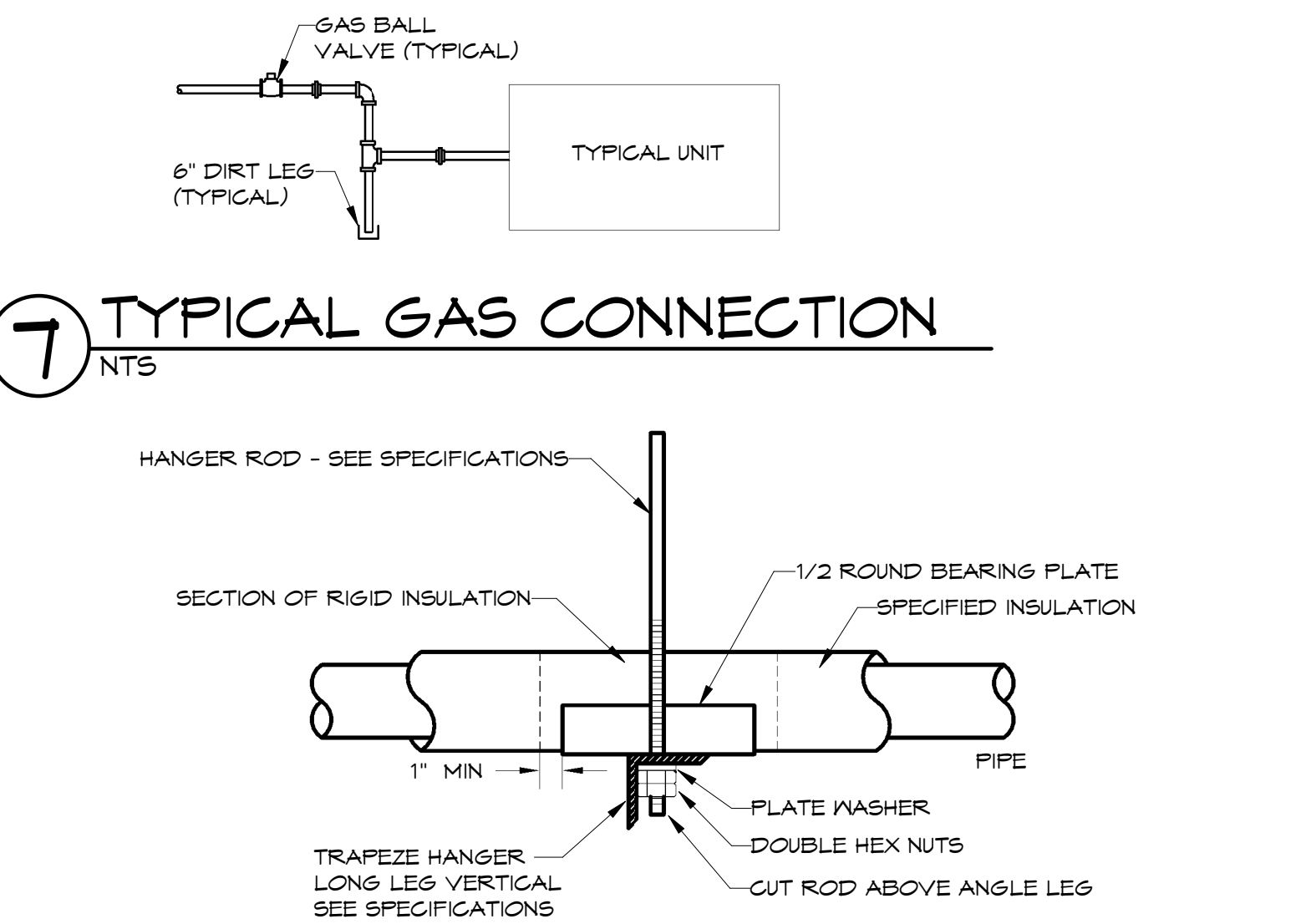


NOTES:
1. FILL TANK WITH WATER BEFORE BACKFILLING TO PREVENT FLOAT OUT DURING PIPING INSTALLATION.
2. BACKFILL USING CRUSHED AGGREGATE MATERIAL APPROXIMATELY 3/4" SIZE ROCK, OR SAND, WITH NO FINES.
3. PLACE 6" AGGREGATE BASE UNDER SLAB. AGGREGATE SHOULD BE 3/4" SIZE ROCK, OR SAND, WITH NO FINES.
4. THICKNESS OF CONCRETE AROUND COVER TO BE DETERMINED BY SPECIFYING ENGINEER. IF TRAFFIC LOADING IS REQUIRED, THE CONCRETE SLAB DIMENSIONS SHOWN ARE FOR GUIDELINE PURPOSE ONLY.
5. ALL PIPE PENETRATIONS TO BE SLEEVED OR HAVE SLIP CONNECTIONS.
6. PROVIDE REQUIRED FACTORY MANHOLE EXTENSIONS TO GRADE. FIELD VERIFY EXTENSION DIMENSIONS PRIOR TO ORDERING.

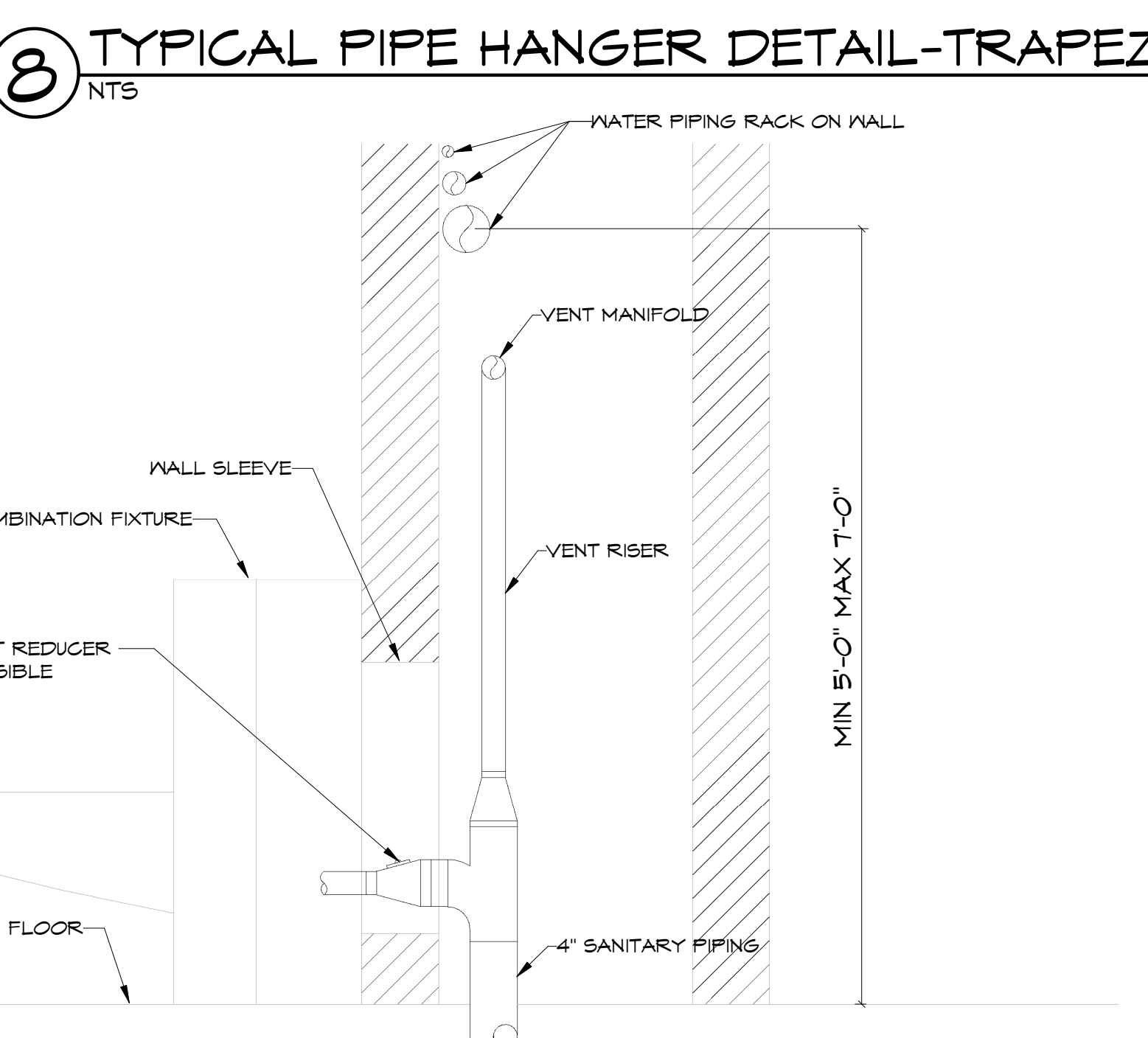
10 GREASE INTERCEPTOR
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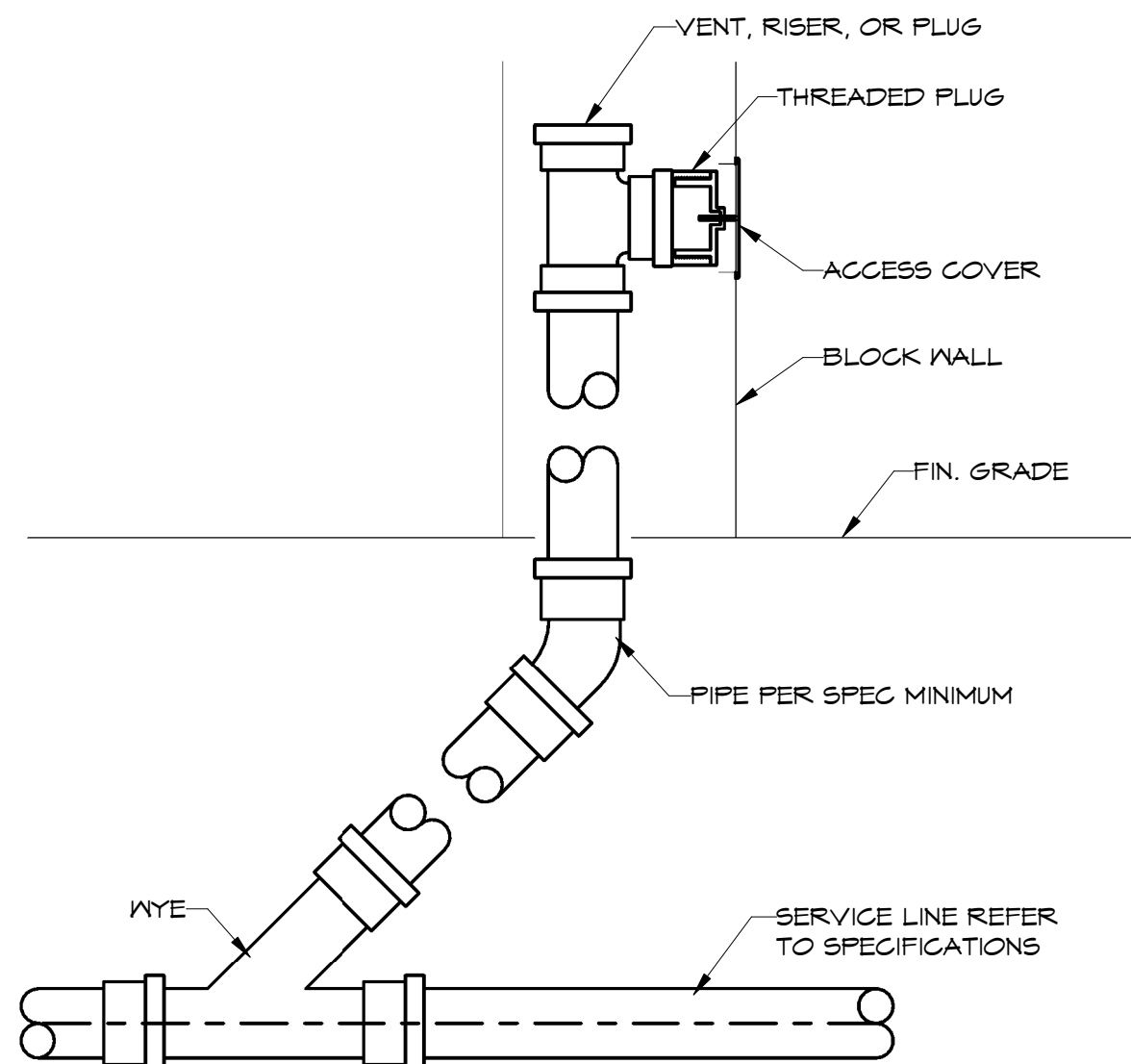
2 CLEAN OUT TO GRADE DETAIL
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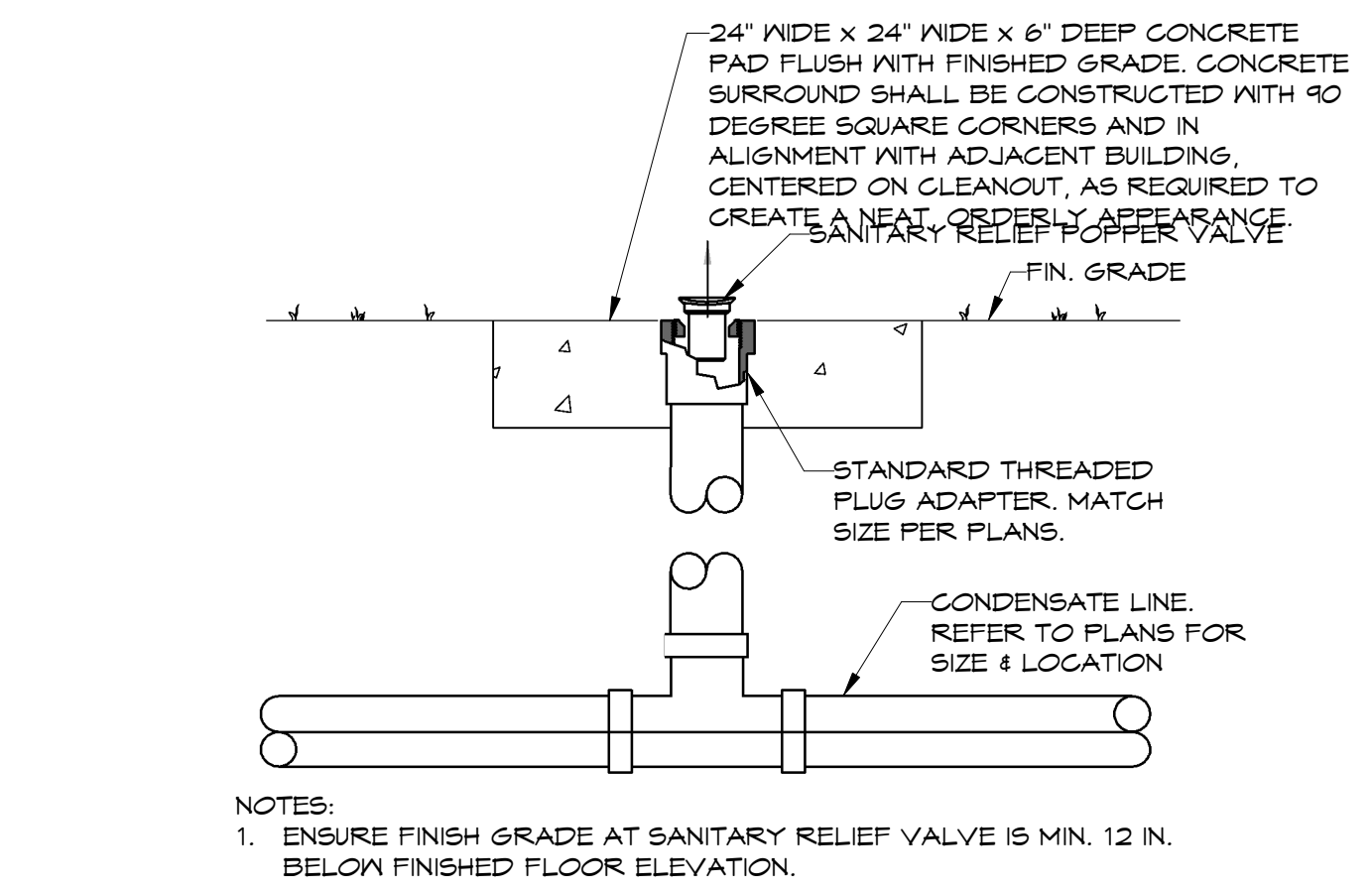
7 TYPICAL GAS CONNECTION
NTS



8 TYPICAL PIPE HANGER DETAIL-TRAPEZE
NTS



3 WALL CLEAN OUT DETAIL
NTS

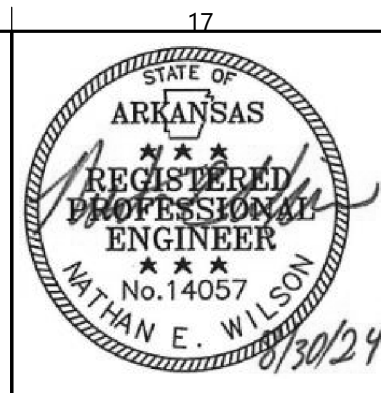


9 SANITARY RELIEF POPPER DETAIL
NTS

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REFER TO SHEETS P4.1 THROUGH P4.11 FOR PLUMBING RISERS.
REFER TO SHEET P5.1 FOR PLUMBING SCHEDULES.

4 FLOOR DRAIN DETAIL
NTS

5 FLOOR SINK DETAIL
NTS



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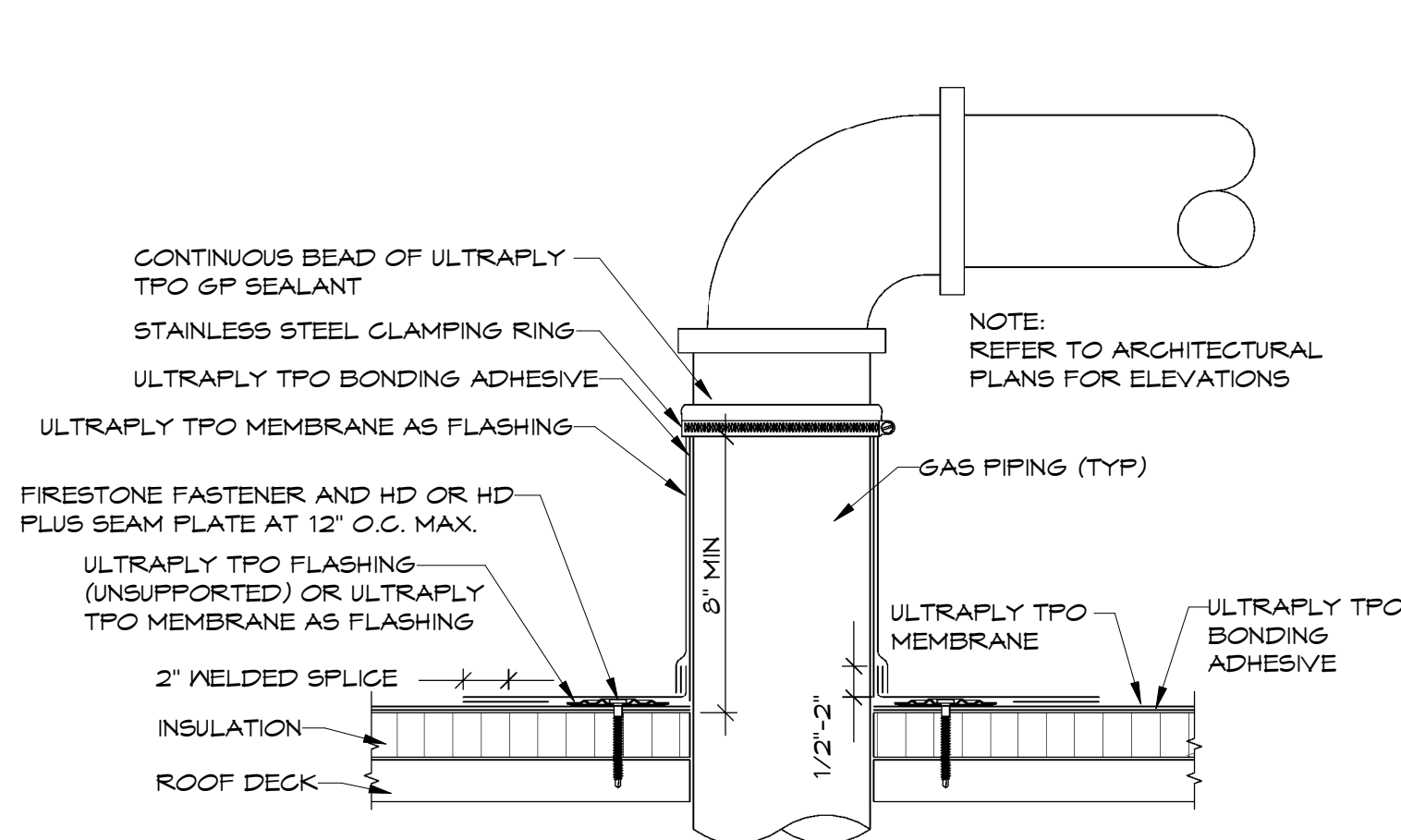
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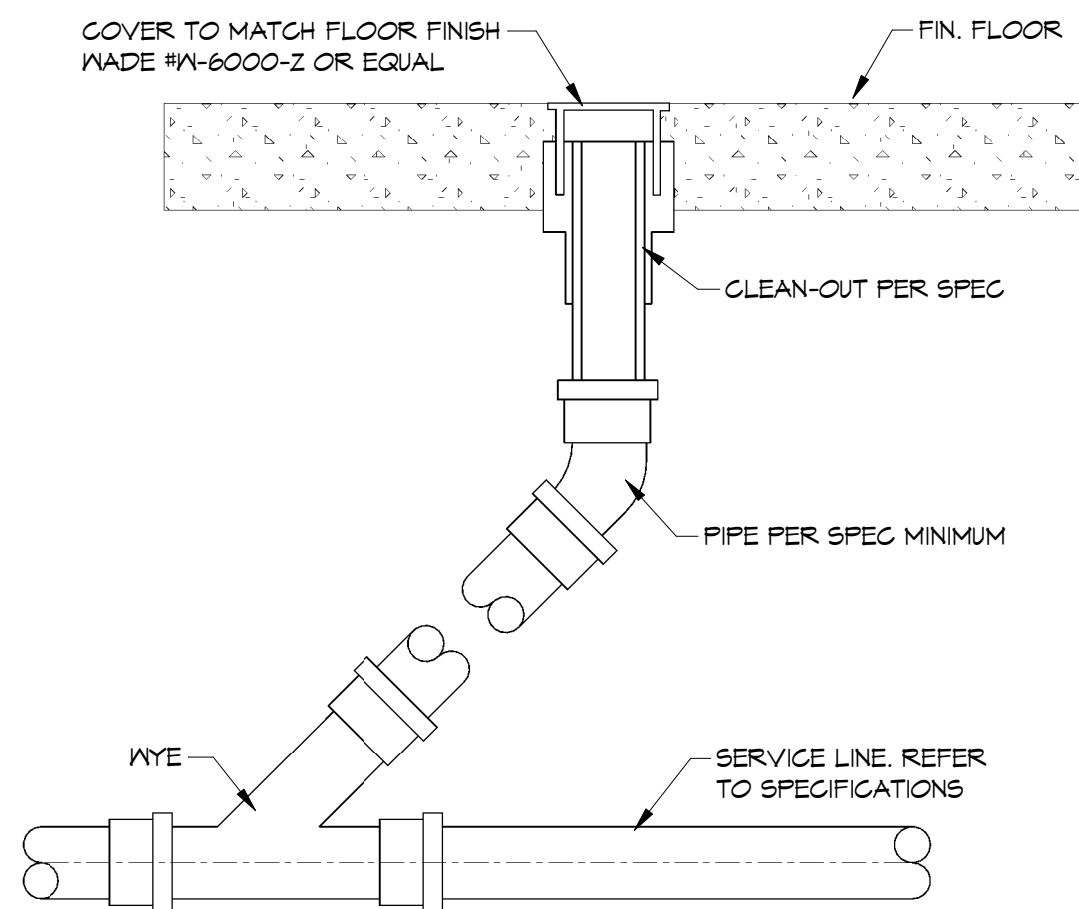
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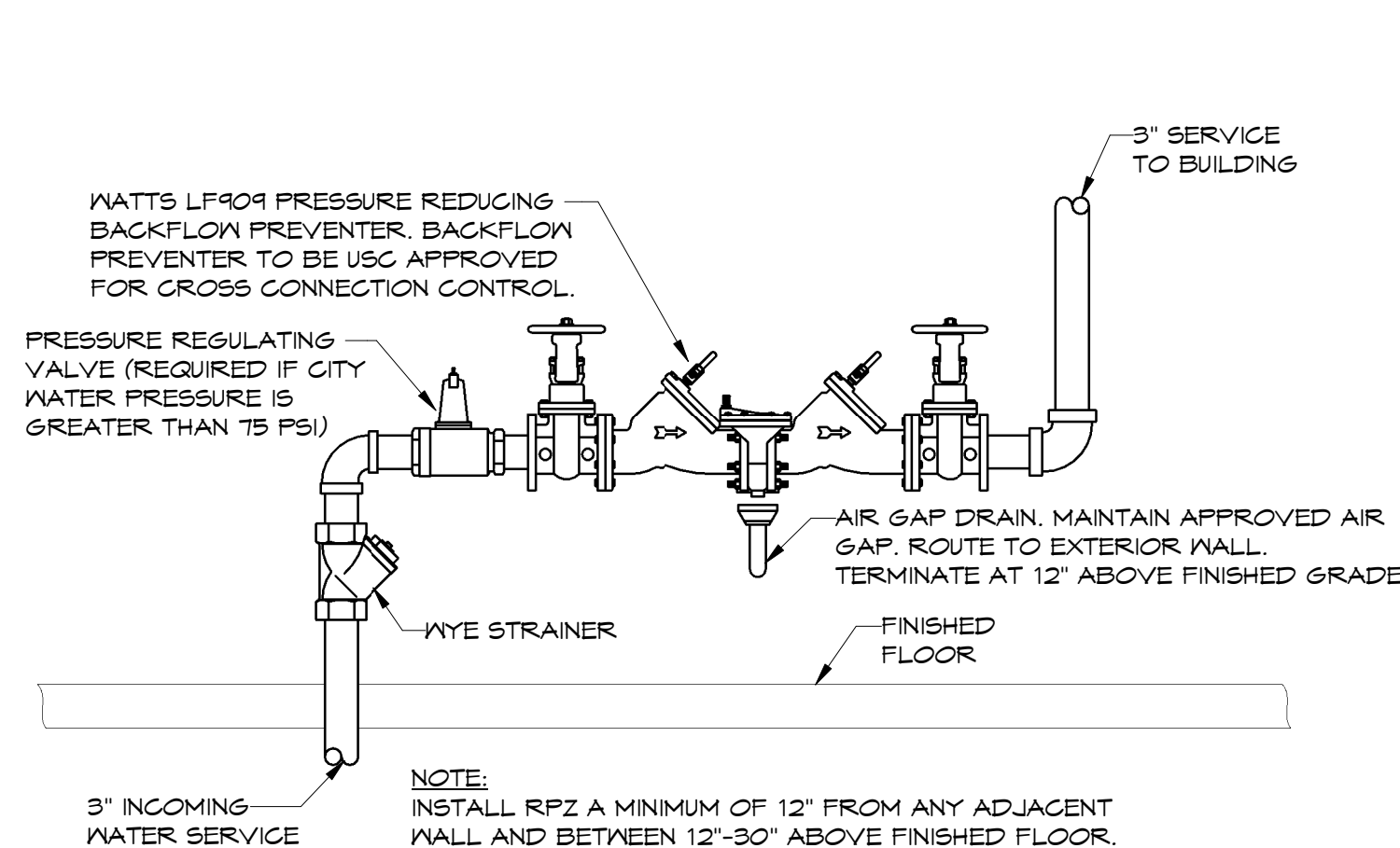
1 GAS PIPING PENETRATION (TPO) DETAIL
1/8" = 1'-0"



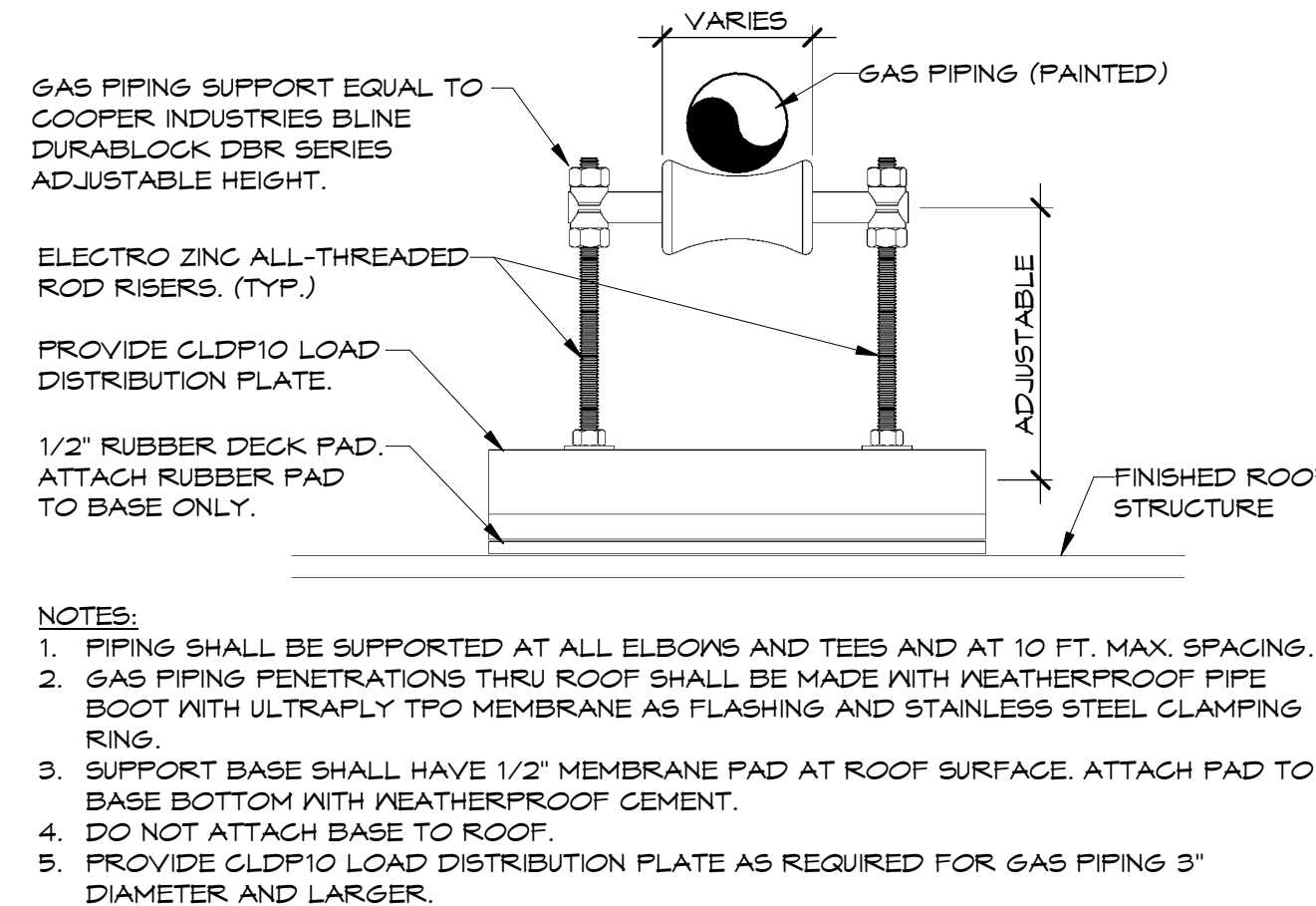
2 FLOOR CLEANOUT DETAIL
NTS



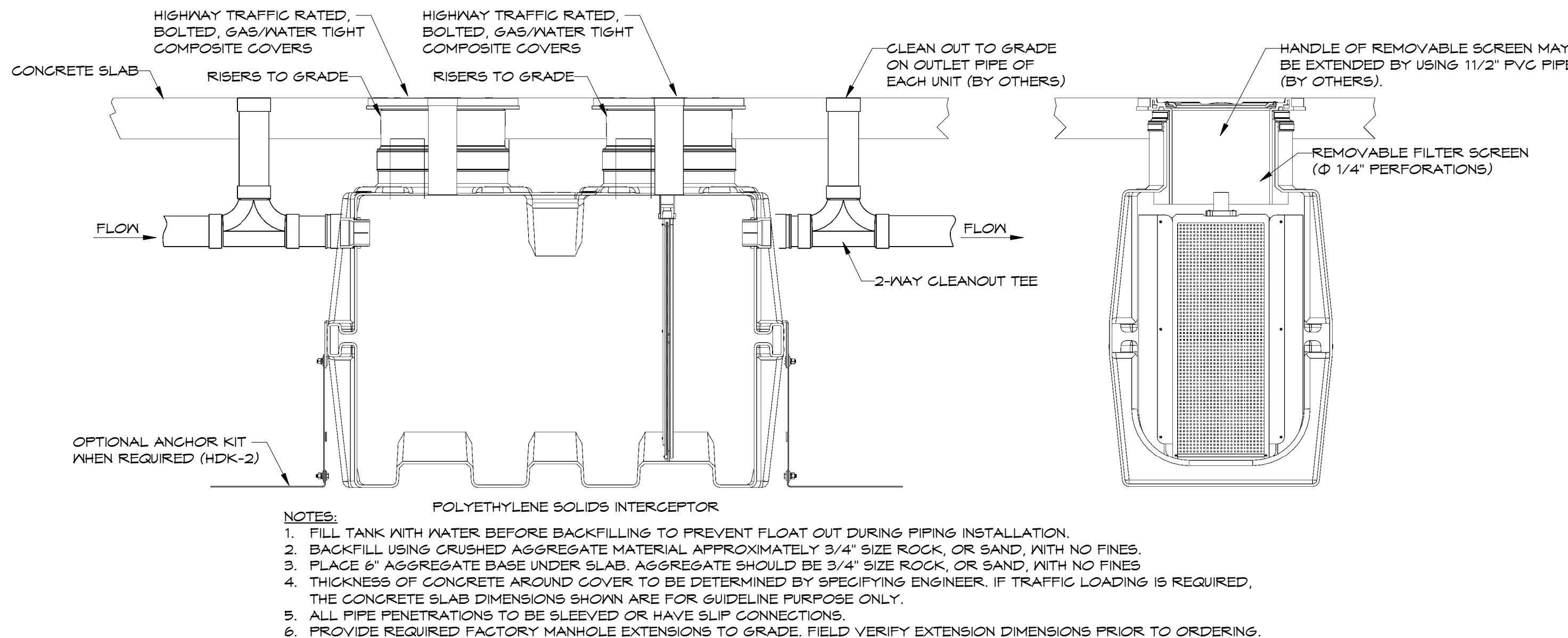
3 RPZ DETAIL
NTS



4 GAS PIPING SUPPORT DETAIL
NTS



5 SOLIDS INTERCEPTOR
1/8" = 1'-0"



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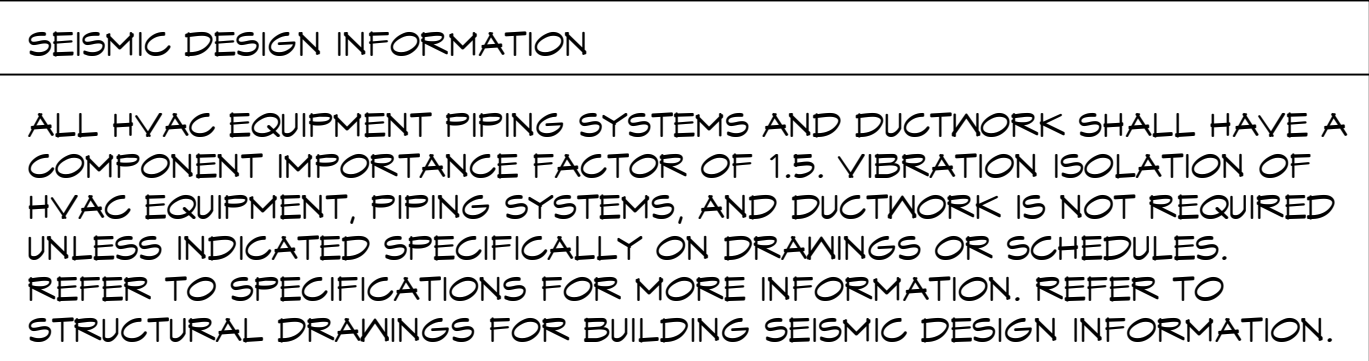
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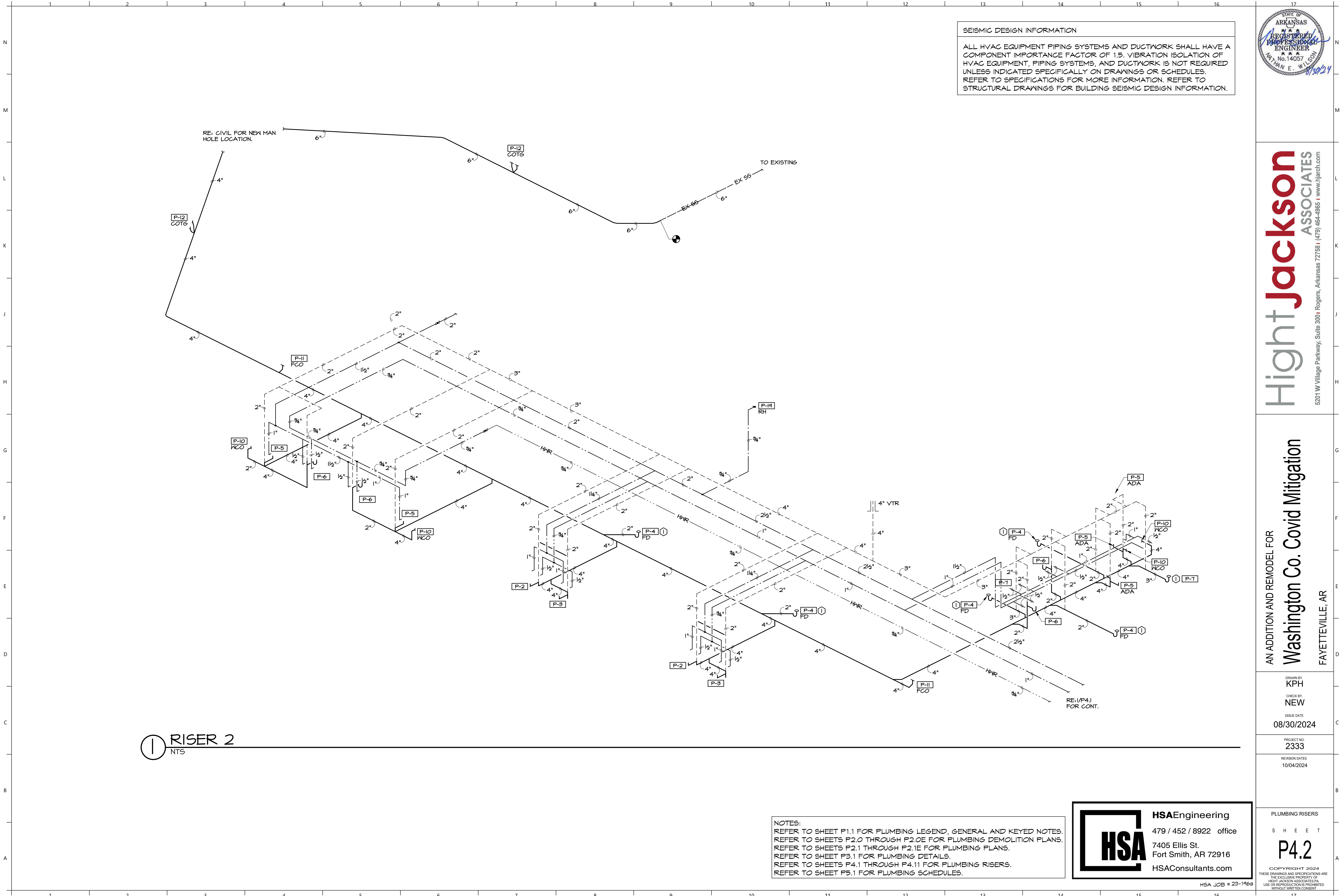
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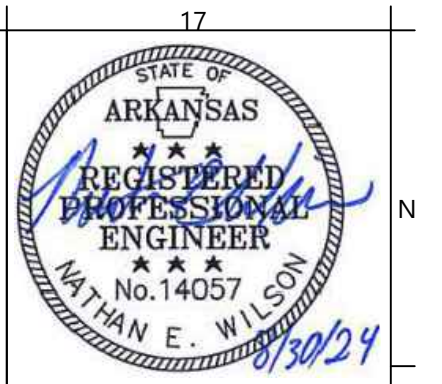
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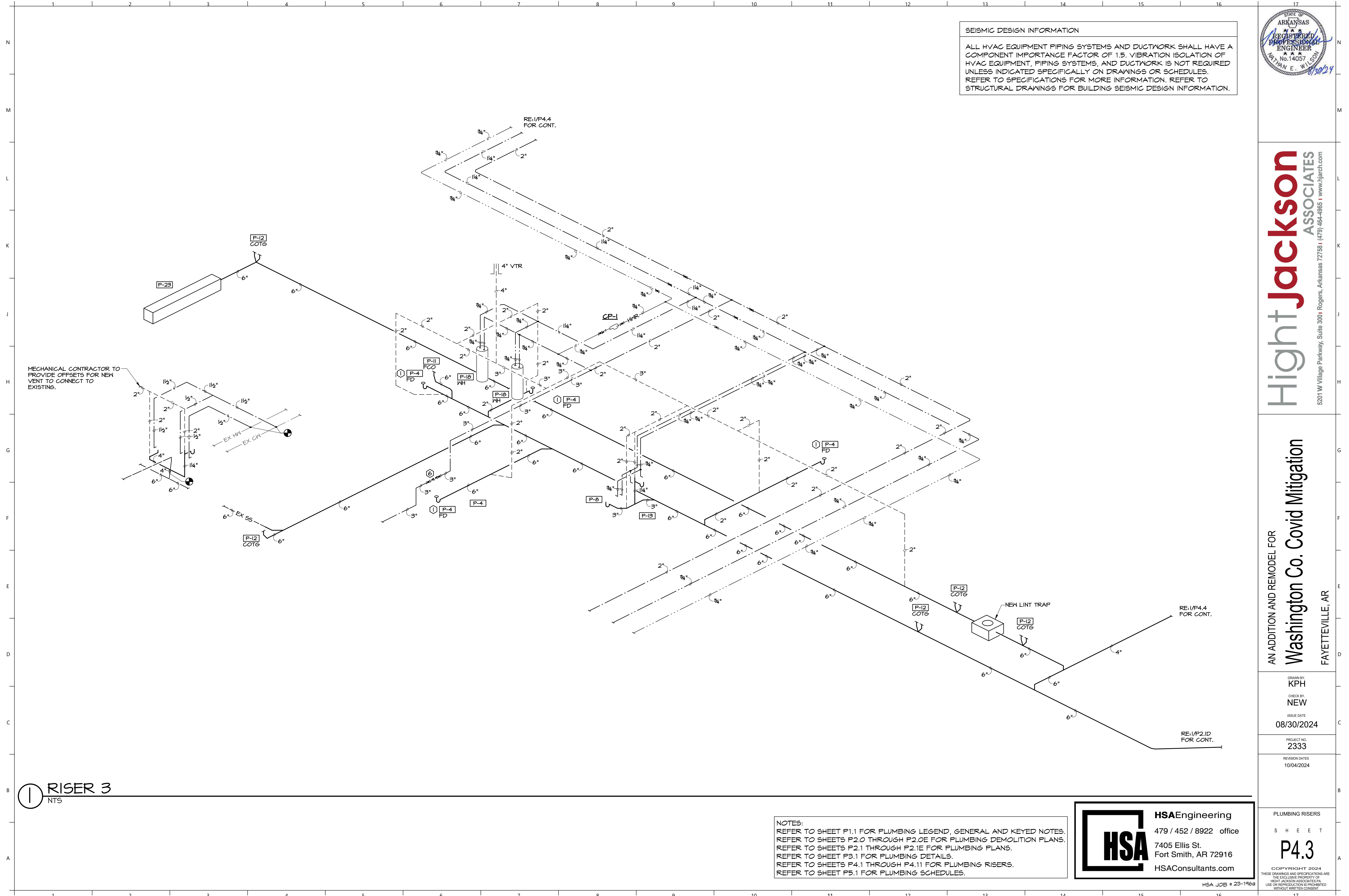
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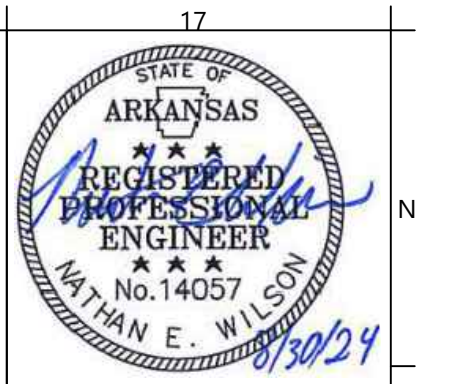
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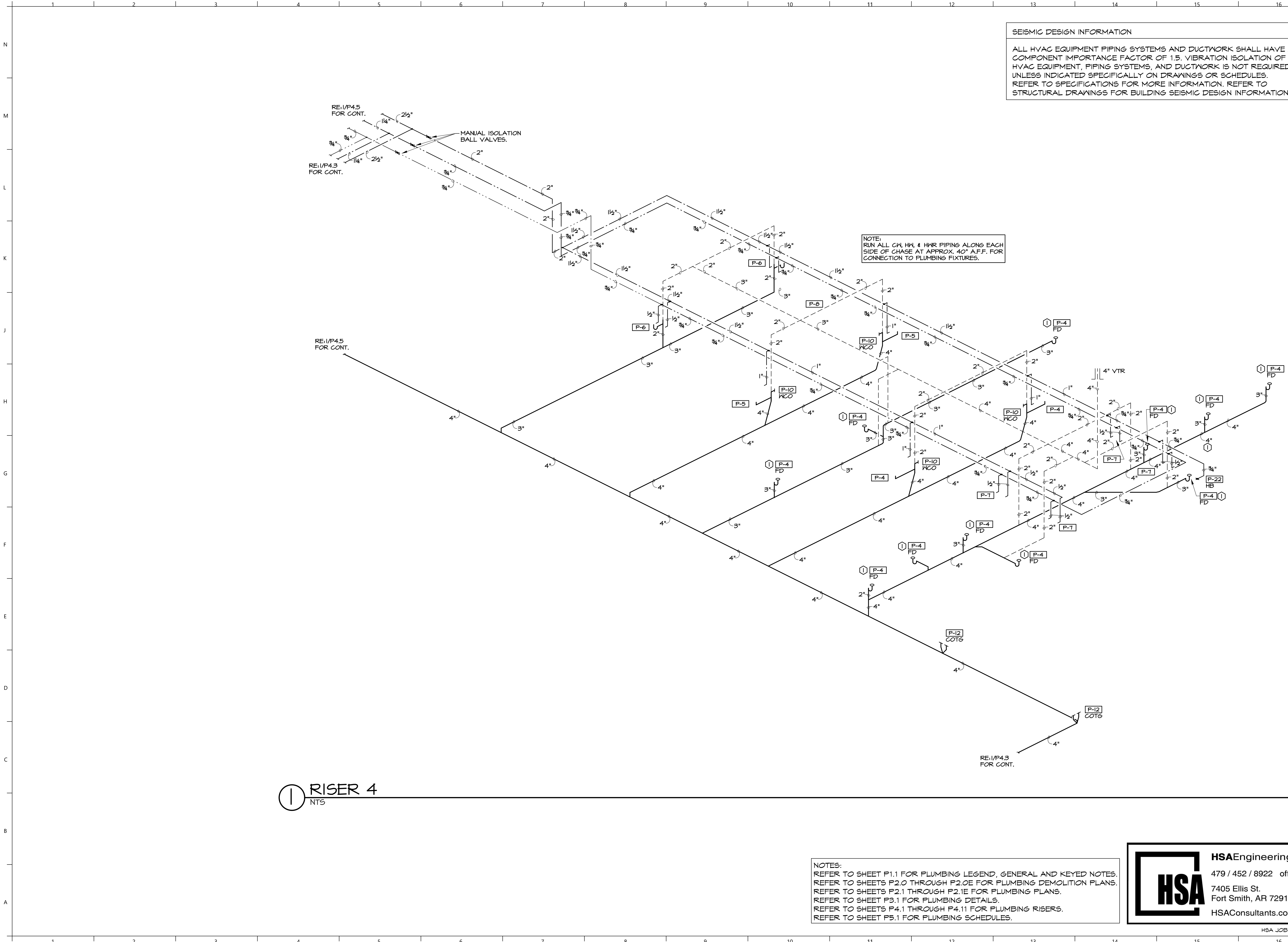
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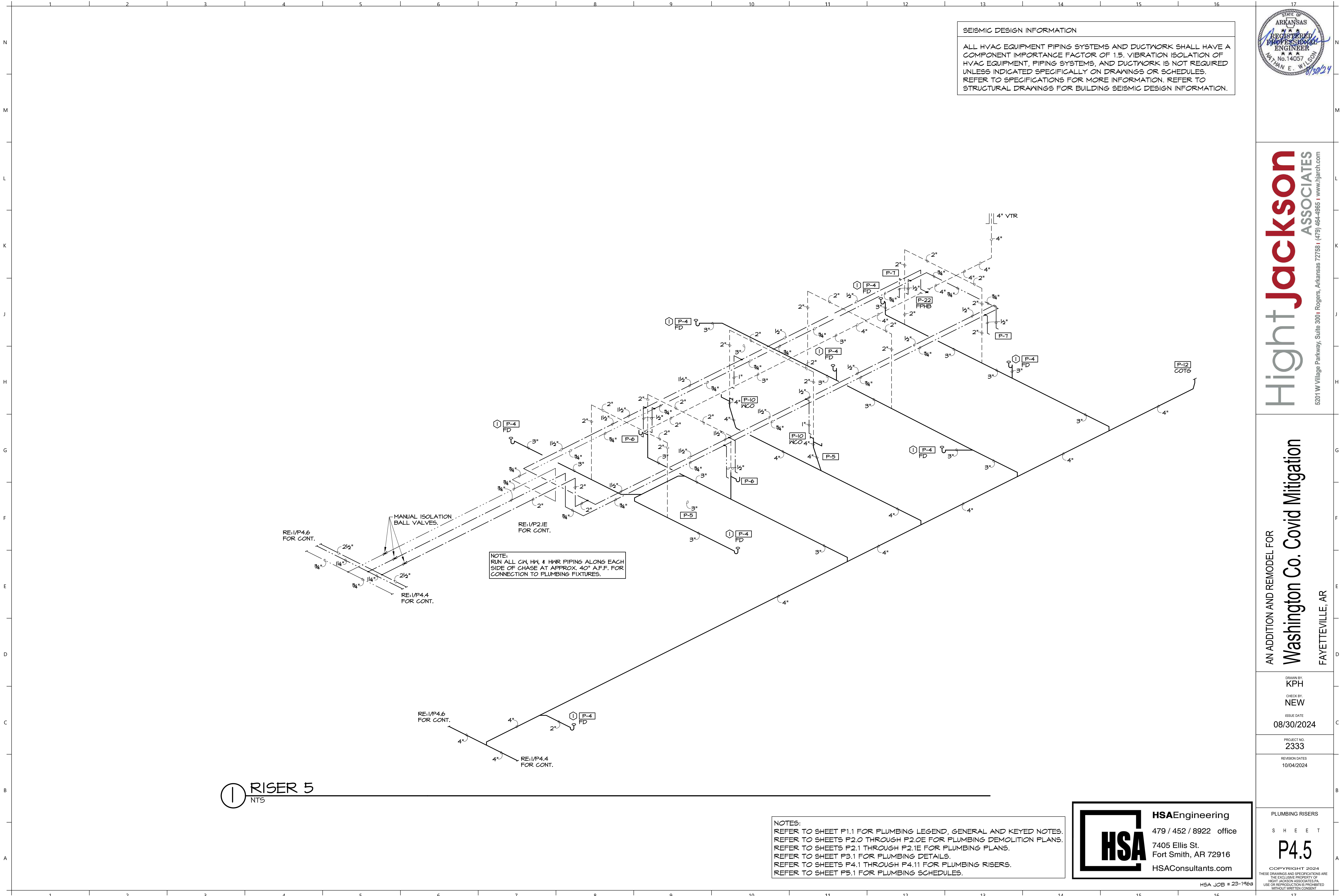
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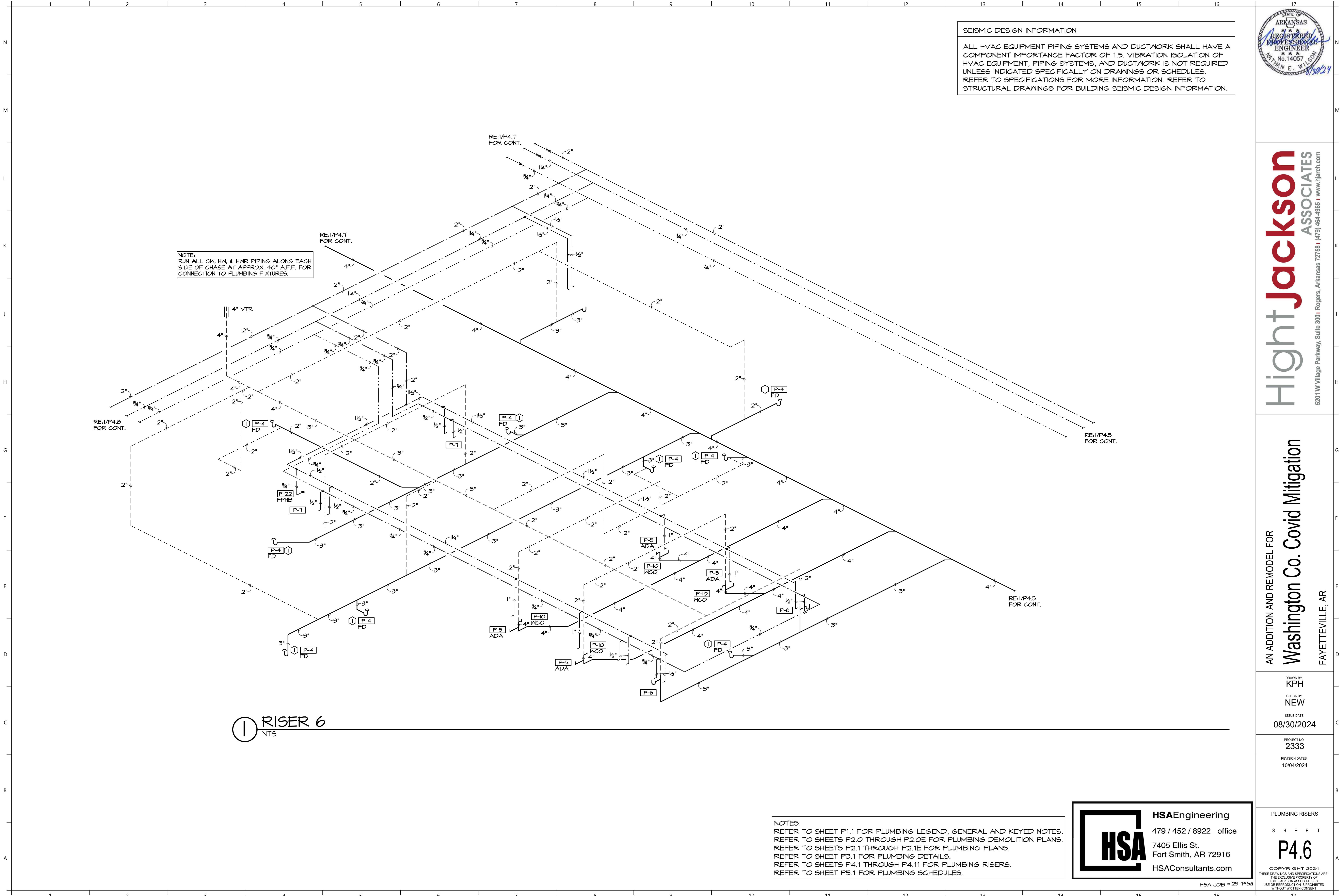
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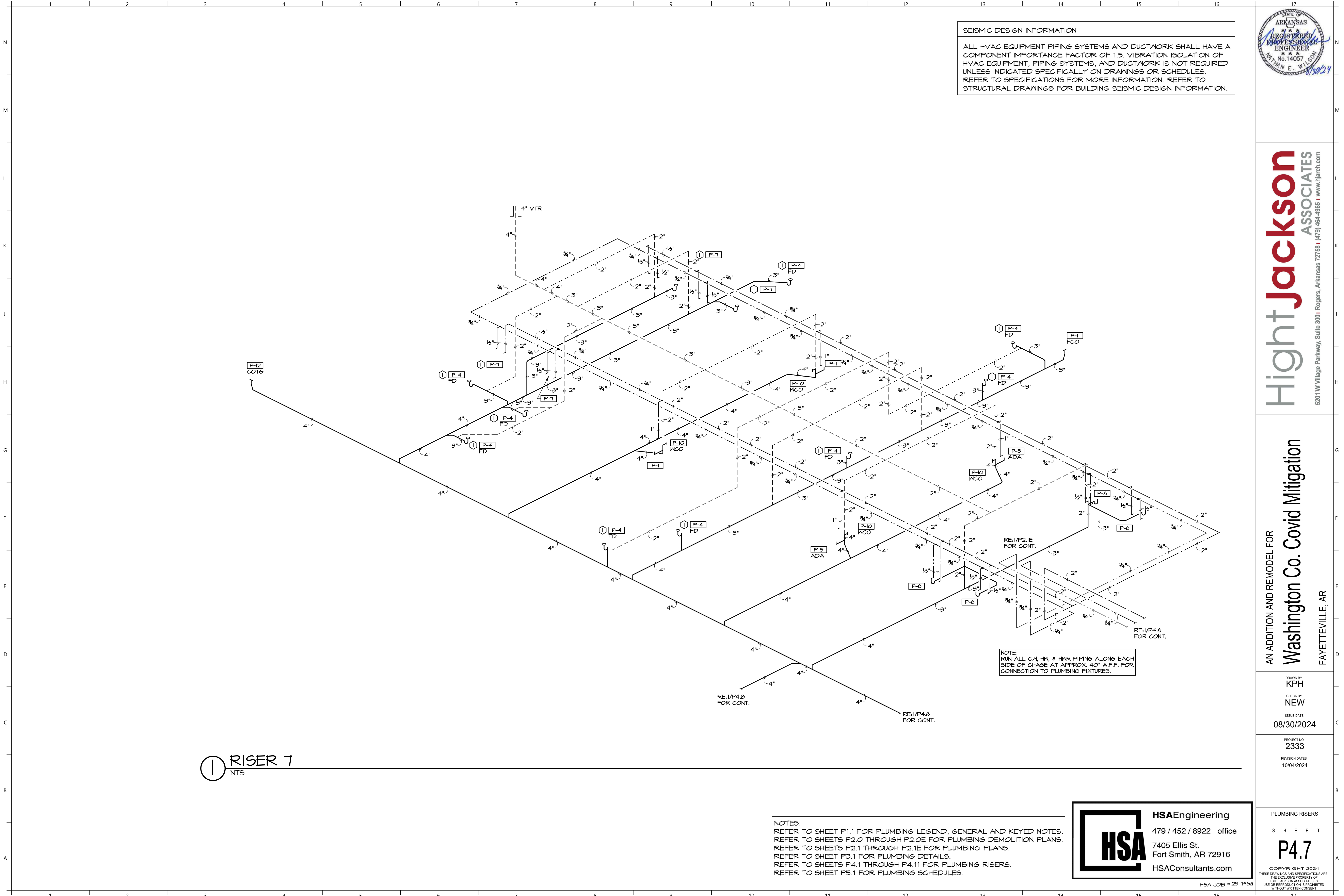
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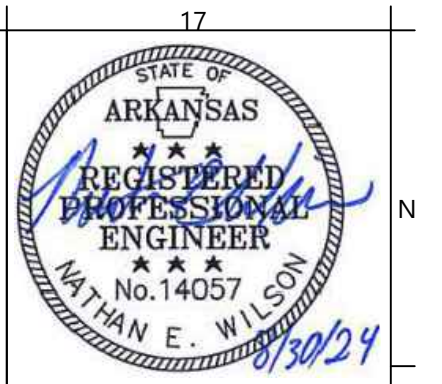
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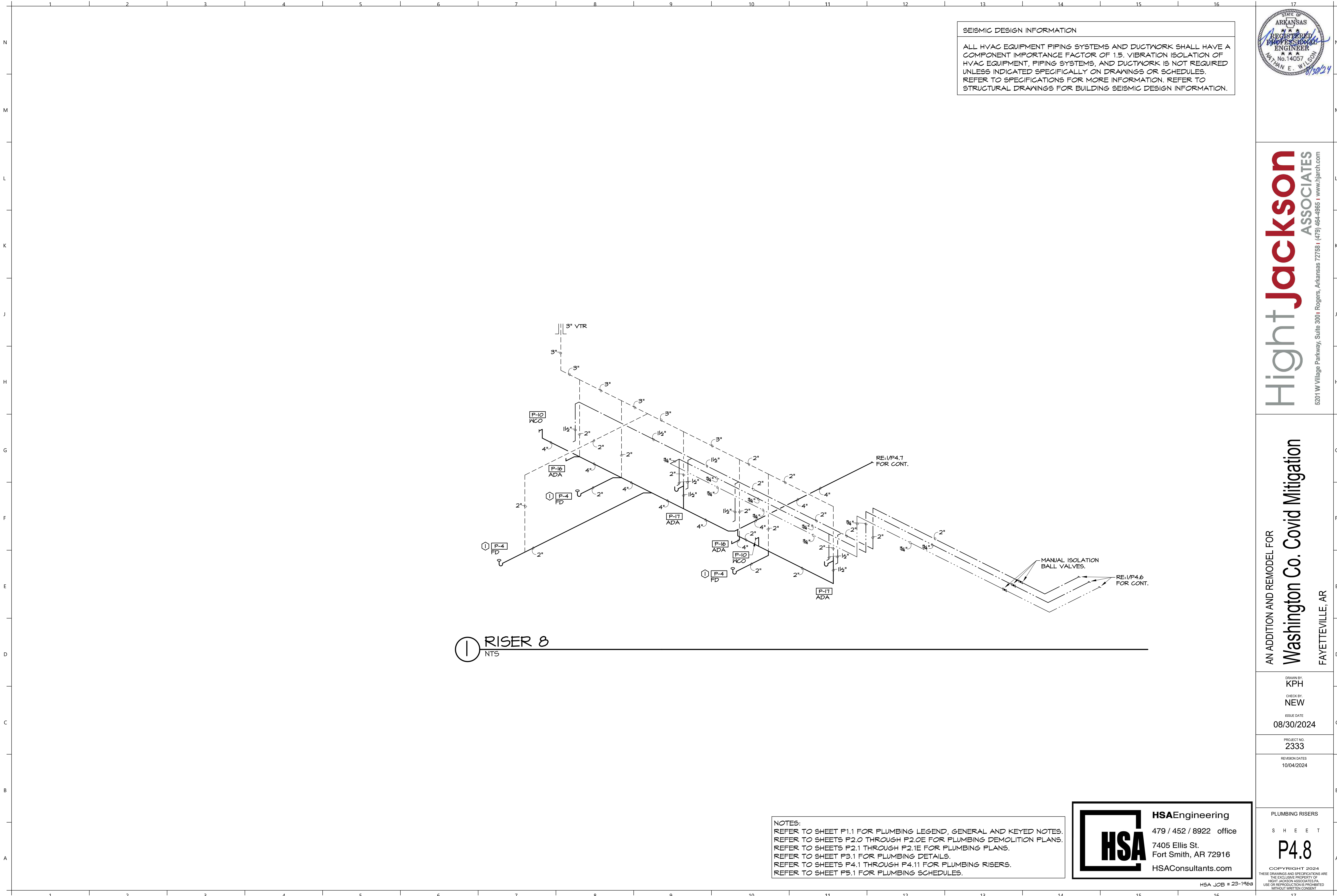
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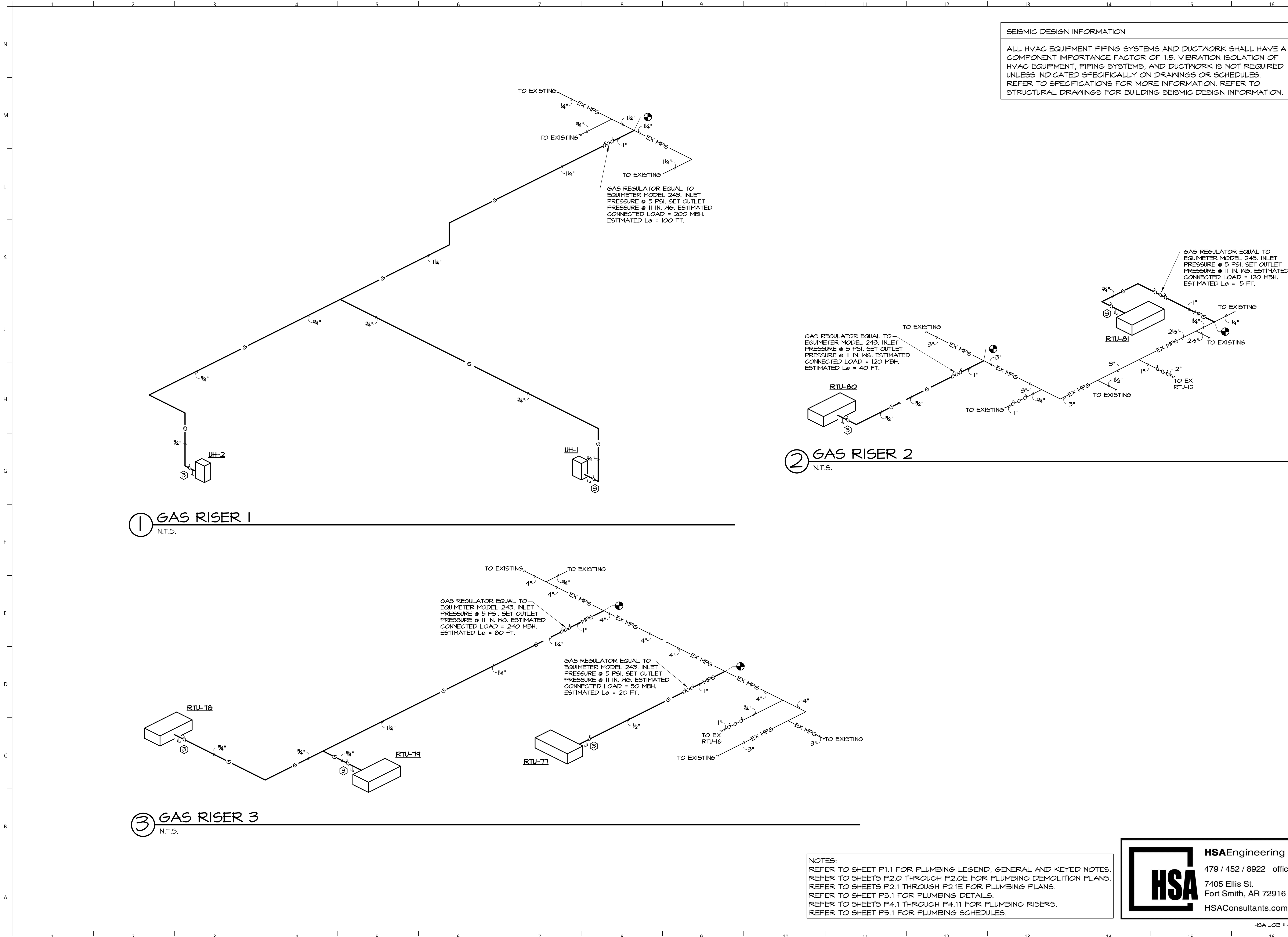
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SEISMIC DESIGN INFORMATION

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PLUMBING RISERS

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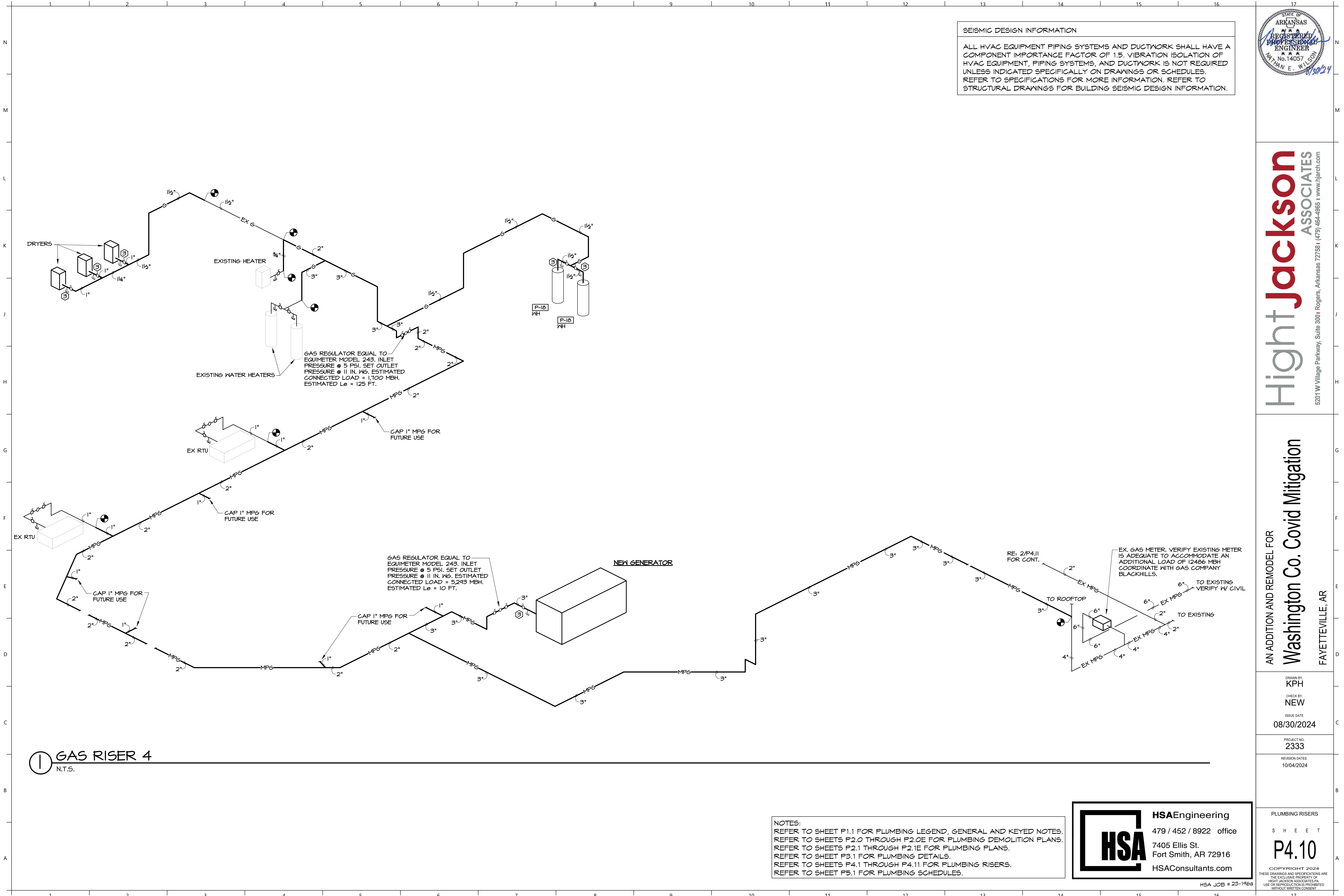
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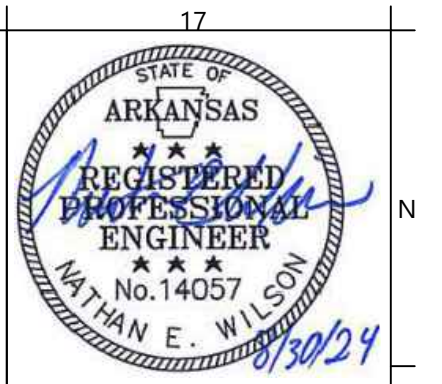
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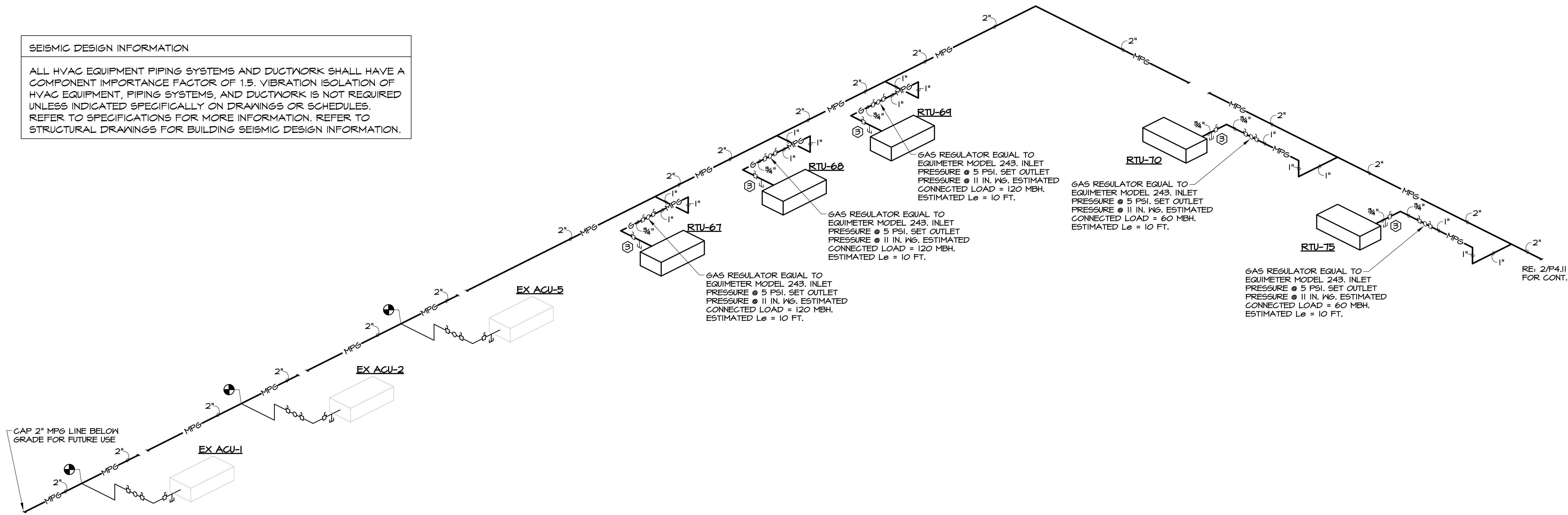
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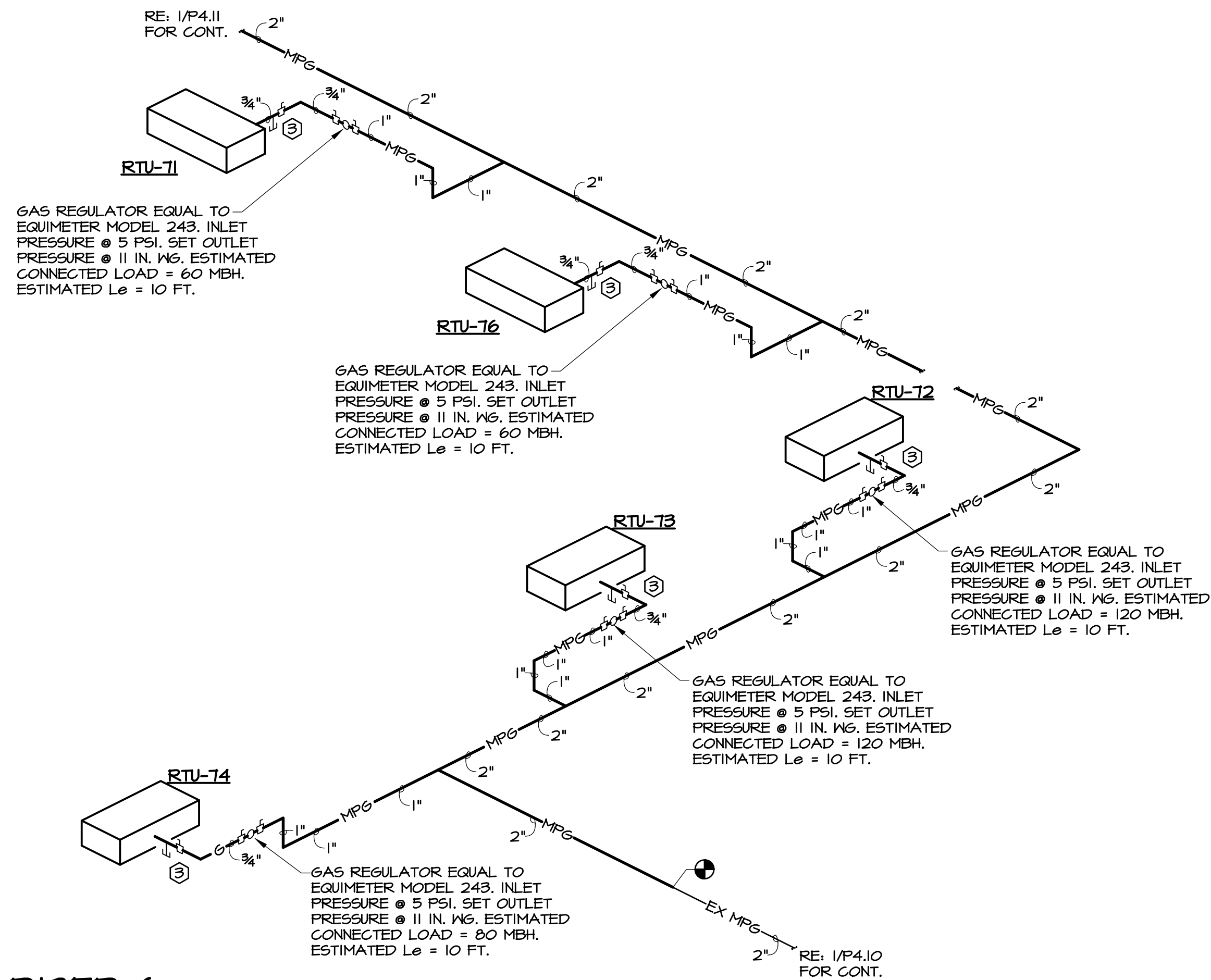
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① GAS RISER 5

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② GAS RISER 6

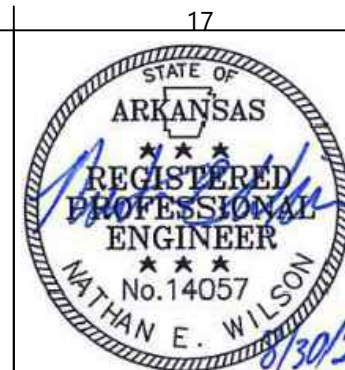
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PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	MANUFACTURER	MODEL	MOUNT	CONNECTION			REMARKS / ACCESSORIES
					CN	HN	SS	
P-1	ACCESSIBLE LIGATURE RESISTANT WC	WILLOUGHBY INDUSTRIES	ETW-1490FM-FA-HC	FLOOR	1	-	4	STAINLESS STEEL BACK OUTLET CONCEALED FLUSH VALVE, INTEGRAL SEAT, 1.6 GPF, CENTER BOWL & PINNED CLEAN-OUT. PROVIDE WITH ELECTRONIC PUSH BUTTON AND HARDWIRED TRANSFORMER. INSTALL FIXTURE 15 IN. FROM TOP OF SEAT TO FLOOR. MOUNT GRAB BARS AT 34 IN. A.F.F.
P-2	COMBINATION LAV/WC FIXTURE - LEFT	WILLOUGHBY INDUSTRIES	ECN-1046-L-ON	FLOOR	1	1/2	4	STAINLESS STEEL, BACK OUTLET CONCEALED FLUSH VALVE, INTEGRAL SEAT, 1.6 GPF, CENTERED FIXTURE, CODE BUBBLER & PINNED CLEAN-OUT. PROVIDE WITH ELECTRONIC PUSH BUTTON AND HARDWIRED TRANSFORMER.
P-3	COMBINATION LAV/WC FIXTURE - RIGHT	WILLOUGHBY INDUSTRIES	ECN-1046-R-ON	FLOOR	1	1/2	4	STAINLESS STEEL, BACK OUTLET CONCEALED FLUSH VALVE, INTEGRAL SEAT, 1.6 GPF, CENTERED FIXTURE, CODE BUBBLER & PINNED CLEAN-OUT. PROVIDE WITH ELECTRONIC PUSH BUTTON AND HARDWIRED TRANSFORMER.
P-4	FLOOR DRAIN	WADE	1100	FLOOR	-	-	*	*CAST IRON FLOOR DRAIN, SIZE AS INDICATED ON PLANS OR MATCH INDICATED WASTE LINE. PROVIDE 1/2 IN. TRAP PRIMER CONNECTION AND DEEP SEAL TRAP. COORDINATE DRAIN TOP MATERIAL WITH SPECIFIED FLOOR FINISH.
P-5	LIGATURE RESISTANT WC	WILLOUGHBY INDUSTRIES	ETW-1490FM-FA	FLOOR	1	-	4	STAINLESS STEEL, BACK OUTLET CONCEALED FLUSH VALVE, INTEGRAL SEAT, 1.6 GPF, CENTER BOWL & PINNED CLEAN-OUT. PROVIDE WITH ELECTRONIC PUSH BUTTON AND HARDWIRED TRANSFORMER. MOUNT FIXTURE 15 IN. A.F.F. TO RIM.
P-6	STAINLESS STEEL LAVATORY	WILLOUGHBY INDUSTRIES	HS-1013-46-HC-EB	WALL	1/2	1/2	2	STAINLESS STEEL, WALL HUNG 1/4" CODE BUBBLER/FILLER BOWL, ADA COMPLIANT. PROVIDE WITH ELECTRONIC PUSH BUTTON AND HARDWIRED TRANSFORMER. PROVIDE THERMOSTATIC MIXING VALVE.
P-7	LIGATURE RESISTANT SHOWER	WILLOUGHBY INDUSTRIES	WRS-ADA-PZPB-TMV-TF24H	WALL	1/2	1/2	2	STAINLESS STEEL SECURITY PENAL PAK TYPE SHOWER HEAD (SINGLE TEMP.) PROVIDE WITH ELECTRONIC PUSH BUTTON AND HARDWIRED TRANSFORMER. PROVIDE THERMOSTATIC MIXING VALVE. SET SHOWER HEAD 17" ANGLE. PROVIDE 3" P-4 FLOOR DRAIN.
P-8	SERVICE SINK	FLORESTONE	MODEL 80	FLOOR	1/2	1/2	3	TERRAZZO 24X24X12 SERVICE SINK. PROVIDE CHROME-PLATED #830-AA FAUCET WITH TOP BRACE AND VACUUM BREAKER, #832-AA HOSE AND BRACKET, 3 IN. GRID DRAIN AND STRAINER, 3 MOP HOLDER, AND TWO STAINLESS STEEL WALL GUARDS. MOUNT MOP HOLDER AT 60 IN. A.F.F.
P-9	ACCESSIBLE LAVATORY	AMERICAN STANDARD	0355.012	WALL	1/2	1/2	2	WHITE VITREOUS CHINA LAVATORY WITH FAUCET LEDGE AND BACK SPLASH. PROVIDE HARDWIRED SLOAN EBF-650 SENSOR OPERATED FAUCET, GRID DRAIN, WADE #520 WALL CARRIER, HANDLAY MOLDED DRAIN & SUPPLY INSULATION KIT. MOUNT 34 IN. A.F.F. TO TOP OF RIM.
P-10	WALL CLEAN OUT	WADE	8550-R	WALL	-	-	*	*SIZE TO MATCH WASTE LINE, MAXIMUM TO 4 INCHES. PROVIDE WADE 8304 STAINLESS STEEL WALL ACCESS COVER.
P-11	FLOOR CLEANOUT	WADE	6000	FLOOR	-	-	*	*SIZE TO MATCH WASTE LINE, MAXIMUM TO 4 INCHES. PROVIDE OPTIONAL TOP TO MATCH FLOOR FINISH. REFER TO ARCHITECTURAL PLANS FOR FLOOR FINISH SCHEDULE.
P-12	CLEAN OUT TO GRADE	WADE	6000Z	TO GRADE	-	-	*	*SIZE TO MATCH WASTE LINE MAXIMUM TO 4 INCHES. PROVIDE HEAVY DUTY TRACTOR TYPE COVER.
P-13	SINGLE STAINLESS STEEL SINK	ELKAY	LRG2522	COUNTER	1/2	1/2	2	STAINLESS STEEL SINK, ZURN Z-8741 S/S CUP STRAINER, Z8702-R-PC TRAP, Z8802LRUK SUPPLIES WITH LOOSE KEY STOPS, GOSSENCK FAUCET WITH SPRAY & HAYS MODEL T620 FAUCET MOUNTED EYEWASH (AXION EYEWOD).
P-14	GREASE INTERCEPTOR	SCHIER PRODUCTS	GB-1500	FINISHED GRADE	-	-	4	100 GPM FLOW RATE GREASE INTERCEPTOR WITH 10,061 LBS GREASE CAPACITY (1588 GALLON LIQUID CAPACITY, 318 GALLONS SOLIDS CAPACITY). PROVIDE POLYETHYLENE INTERCEPTOR WITH HEAVY DUTY GASKETED COVERS. PROVIDE EXTENSIONS TO GRADE AS REQUIRED FOR SERVICE. PROVIDE WITH PICKABLE CAST IRON COVER (16,000 LBS RATED). RE: 10/P3.1 FOR DETAIL.
P-15	SCREEN STYLE SOLIDS INTERCEPTOR	STRIEM	PS-2T5-S	BELOW GRADE	-	-	6	100 GPM FLOW RATE, POLYPROPYLENE SCREEN STYLE SOLIDS INTERCEPTOR WITH HEAVY DUTY GASKETED COVERS. PROVIDE EXTENSIONS TO GRADE AS REQUIRED FOR SERVICE. PROVIDE WITH PICKABLE CAST IRON COVER (16,000 LBS RATED).
P-16	ACCESSIBLE WATER CLOSET	AMERICAN STANDARD	3043.102	FLOOR	1 1/2	-	4	WHITE VITREOUS CHINA, LOW CONSUMPTION, ELONGATED BOWL, FLUSH VALVE TOILET. PROVIDE HARDWIRED SLOAN SENSOR OPERATED FLUSH VALVE, OLSONITE #10 SCG OPEN SEAT AND SLOAN Y-J TYPE PIPE SUPPORT. PROVIDE BLOCKING IN WALL AS REQUIRED FOR INSTALLATION OF YP PIPE SUPPORT. INSTALL 17" FROM TOP OF SEAT TO FLOOR.
P-17	ACCESSIBLE LAVATORY	AMERICAN STANDARD	0355.012	WALL	1/2	1/2	2	WHITE VITREOUS CHINA LAVATORY WITH FAUCET LEDGE AND BACK SPLASH. PROVIDE AMERICAN STANDARD, 0.5 GPM HARDWIRED SENSOR OPERATED FAUCET, BASE PLATE, GRID DRAIN, WADE #520 WALL CARRIER, HANDLAY MOLDED DRAIN & SUPPLY INSULATION KIT. MOUNT 34 IN. A.F.F. TO TOP OF RIM. PROVIDE MATTS LFMMV UNDER COUNTER THERMOSTATIC MIXING VALVE. SET WATER TEMPERATURE AT 105 DEGREES F.
P-18	WATER HEATER	A. O. SMITH	BTH-120	FLOOR	3/4	3/4	-	DOMESTIC WATER HEATER SHALL BE EQUAL TO A. O. SMITH MODEL BTH 300; 300,000 BTUH INPUT, 96% EFFICIENCY, 130 GAL. STORAGE.
P-19	ROOF HYDRANT	WOODFORD	SRH-M5	ROOF	3/4	-	-	AUTOMATIC DRAINING, BACKFLOW PROTECTED, FREEZE PROOF ROOF HYDRANT.
P-20	FLOOR SINK	WADE	9110	FLOOR	-	-	*	*CAST IRON FLOOR SINK WITH NICKEL BRONZE GRATE. SIZE AS INDICATED ON PLANS OR MATCH WASTE LINE SIZE WHEN NOT INDICATED. PROVIDE 3/4 GRATE AND DEEP SEAL TRAP.
P-21	DOWNSPOUT BOOT	J.R. HOE	O-6632C	WALL	-	-	-	6x6 BELL TOP CAST IRON DOWNSPOUT BOOT WITH 6" OUTLET AND CLEANOUT ACCESS PLUG. PAINT PER ARCHITECTURAL SPECIFICATIONS; COLOR TO BE SELECTED BY ARCHITECT.
P-22	FREEZE PROOF HOSE BIB	WOODFORD	B61	WALL	3/4	-	-	FREEZE PROOF HOSE BIB WITH WHEEL-TYPE HANDLE, NOT LOCKING. PROVIDE VACUUM BREAKER AND BACKFLOW PREVENTION.
P-23	LAUNDRY TRENCH	STRIEM	TT-10	FLOOR	-	-	6	STRIEM TUFF TROUGH SHALL BE LIFETIME GUARANTEED AND MADE IN THE USA OF 3/4" POLYETHYLENE. TROUGH SHALL BE CERTIFIED TO APMO/ANSI/CAN Z1161 AND CARRY A UPC LISTING. TROUGH SHALL HAVE REMOVABLE CORROSION-RESISTANT PRIMARY FILTER SCREEN AND SECONDARY FILTER BASKET. TROUGH SHALL BE FURNISHED WITH A NESTED COVER, INTERNALLY SLOPED FLOOR, AND SUITABLE FOR ABOVE- OR BELOW-GRADE INSTALLATION. TROUGH SHALL BE EQUIPPED WITH A PLAIN END OUTLET. INLET CONNECTIONS ARE FIELD INSTALLED. COVER SHALL HAVE A MAXIMUM 450 LBS. LOAD CAPACITY. MAXIMUM OPERATING TEMPERATURE 165°F INTERMITTENT.
P-24	ACCESSIBLE COMBINATION LAV/WC FIXTURE - RIGHT	WILLOUGHBY INDUSTRIES	ECN-1545-R-ON	FLOOR	1	1/2	4	STAINLESS STEEL, BACK OUTLET CONCEALED FLUSH VALVE, INTEGRAL SEAT, 1.6 GPF, CENTERED FIXTURE, CODE BUBBLER & PINNED CLEAN-OUT. PROVIDE WITH ELECTRONIC PUSH BUTTON AND HARDWIRED TRANSFORMER.
P-25	ACCESSIBLE COMBINATION LAV/WC FIXTURE - LEFT	WILLOUGHBY INDUSTRIES	ECN-1545-L-ON	FLOOR	1	1/2	4	STAINLESS STEEL, BACK OUTLET CONCEALED FLUSH VALVE, INTEGRAL SEAT, 1.6 GPF, CENTERED FIXTURE, CODE BUBBLER & PINNED CLEAN-OUT. PROVIDE WITH ELECTRONIC PUSH BUTTON AND HARDWIRED TRANSFORMER.
P-26	DOWNSPOUT BOOT	J.R. HOE	O-4432A	WALL	-	-	-	4x4 BELL TOP CAST IRON DOWNSPOUT BOOT WITH 4" OUTLET AND CLEANOUT ACCESS PLUG. PAINT PER ARCHITECTURAL SPECIFICATIONS; COLOR TO BE SELECTED BY ARCHITECT.
P-27	WATER HAMMER ARRESTOR	WADE BELLOWS	SHOKSTOP	-	*	*	-	*SIZE WATER HAMMER ARRESTOR PER MANUFACTURER'S RECOMMENDATIONS. ALL STAINLESS STEEL CONSTRUCTION WITH WELDED NESTED BELLOWS. PROVIDE BALL VALVE FOR SHUT-OFF.

NOTES

1. COORDINATE COUNTER TOP FIXTURE INSTALLATION WITH MILLWORK.

2. INSTALL ACCESSIBLE FLUSH VALVE TO THE ACCESSIBLE SIDE.

3. () DENOTES INDIRECT DRAIN.

4. MECHANICAL CONTRACTOR SHALL PROVIDE APPROVED TRAP GUARDS ON ALL FLOOR SINKS AND FLOOR DRAINS.

CIRCULATING PUMP SCHEDULE

MARK	MFG	MODEL	GPM	HEAD (FT)	VLT / PH / HZ	WATTS	REMARKS / ACCESSORIES
CP-1	BELL & GOSSETT	NFB-36	5	.5	115 / 1 / 60	270	1, 2, 3, 4
CP-2	BELL & GOSSETT	NFB-36	5	.5	115 / 1 / 60	270	1, 2, 3, 4

ACCESSORIES

1. BRONZE CONSTRUCTION FOR HOT WATER RECIRCULATION.

2. PROVIDE AQUASTAT.

3. PLUMBING CONTRACTOR TO PROVIDE TC-1 AUTOMATIC TIMER.

4. PROVIDE 3 SPEED MOTOR.

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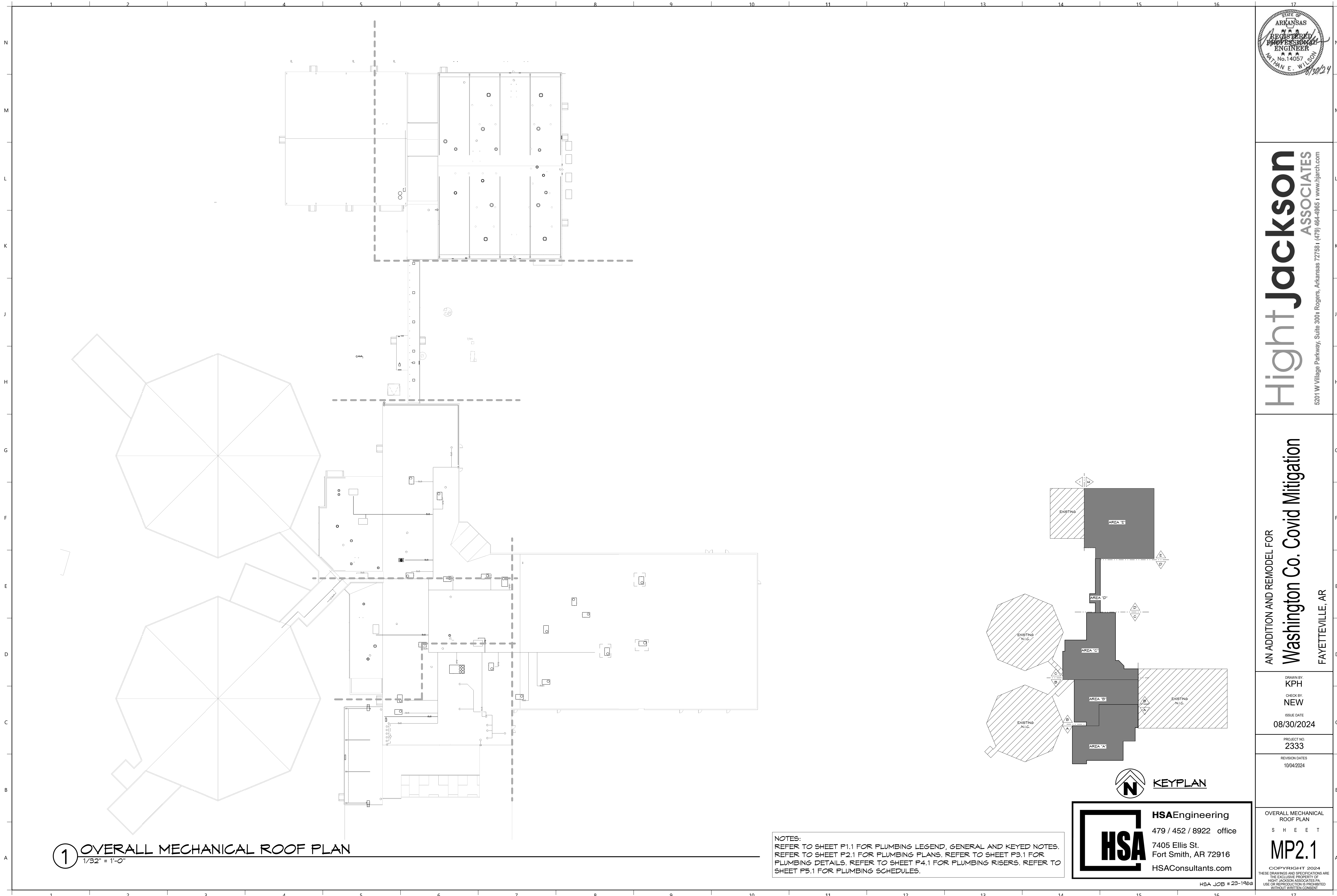
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PLUMBING SCHEDULES

SHEET

P5.1

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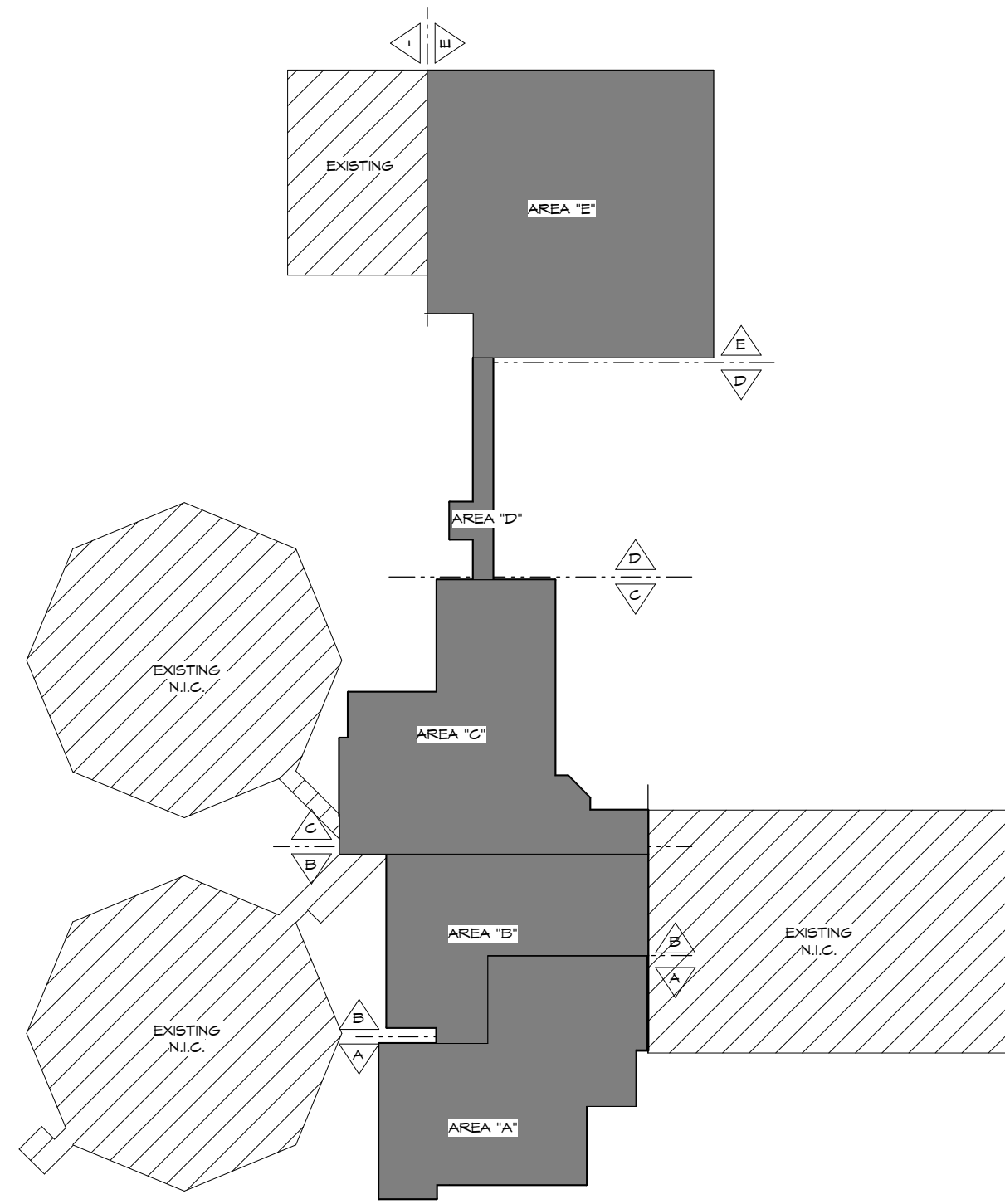



1 OVERALL MECHANICAL ROOF PLAN
1/32" = 1'-0"

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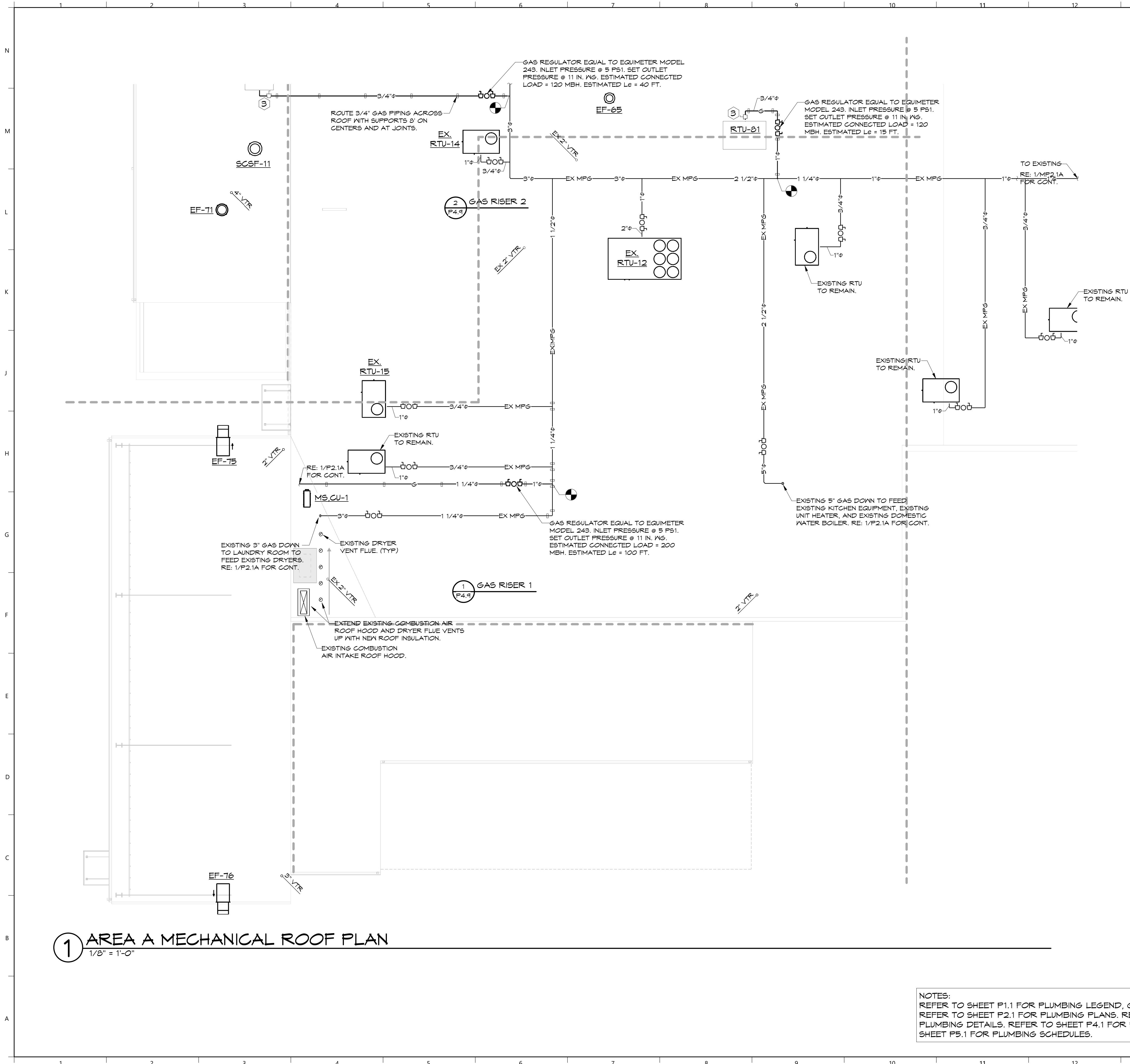
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OVERALL MECHANICAL
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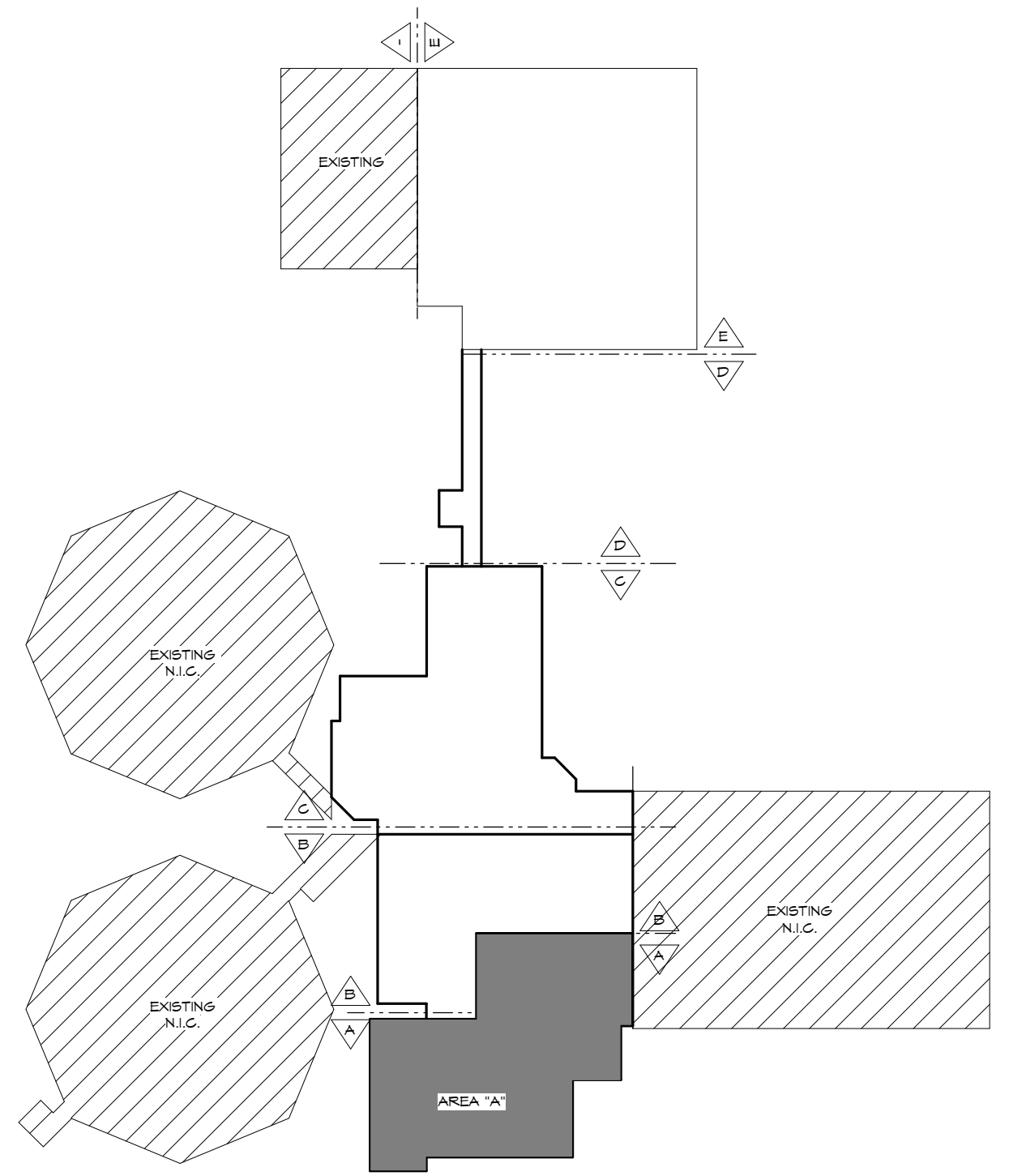


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- ALL DUCTWORK AND DAMPERS ASSOCIATED WITH SMOKE CONTROL SYSTEMS
- GAS PIPING.

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1 AREA A MECHANICAL ROOF PLAN
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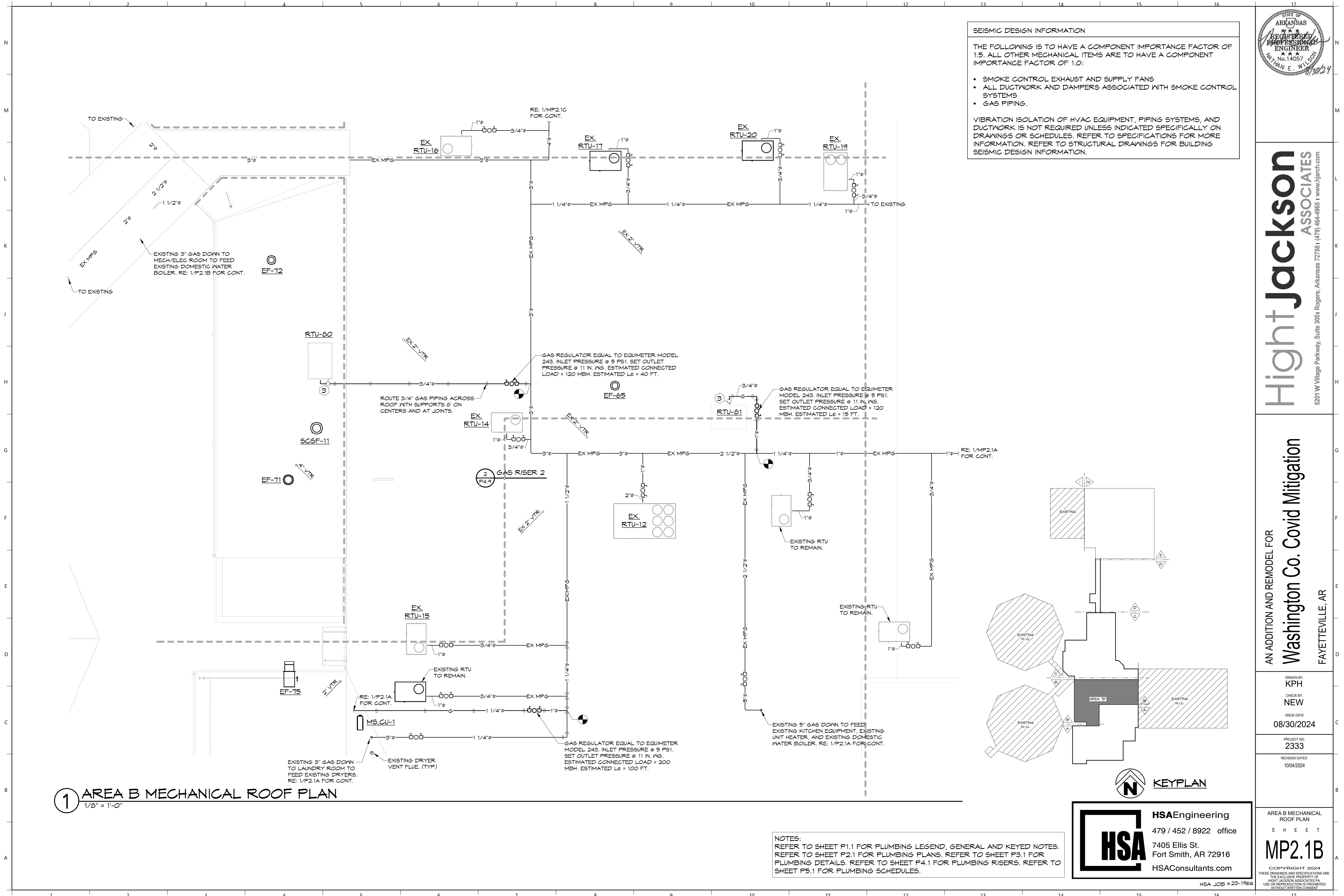
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AREA A MECHANICAL
ROOF PLAN

SHEET

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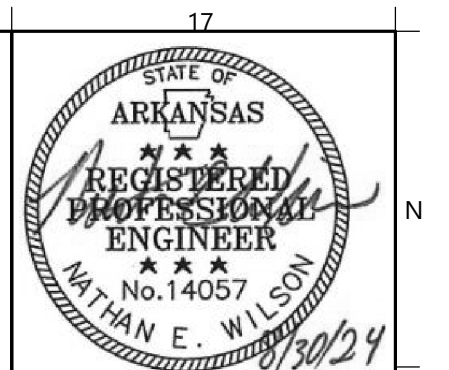


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AREA B MECHANICAL
ROOF PLAN

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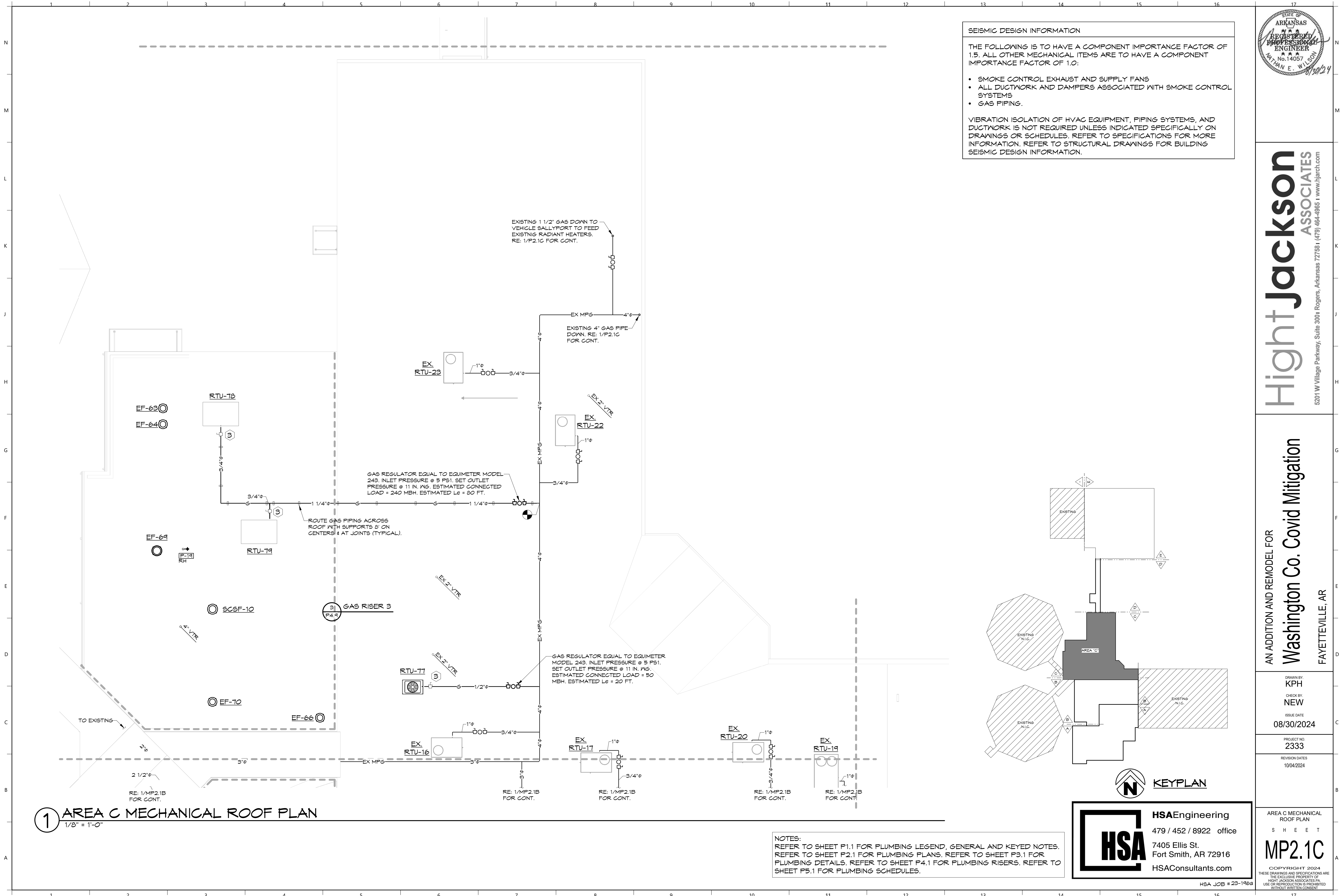
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1 AREA B MECHANICAL ROOF PLAN
1/8" = 1'-0"



SEISMIC DESIGN INFORMATION

THE FOLLOWING IS TO HAVE A COMPONENT IMPORTANCE FACTOR OF 1.5. ALL OTHER MECHANICAL ITEMS ARE TO HAVE A COMPONENT IMPORTANCE FACTOR OF 1.0:

- SMOKE CONTROL EXHAUST AND SUPPLY FANS
- ALL DUCTWORK AND DAMPERS ASSOCIATED WITH SMOKE CONTROL SYSTEMS
- GAS PIPING.

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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 14057
ANTHONY E. WILSON
8/30/24

Hight Jackson
ASSOCIATES

5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72768 | (479) 464-4965 | www.hjarch.com

AN ADDITION AND REMODEL FOR
Washington Co. Covid Mitigation
FAYETTEVILLE, AR

DRAWN BY:
KPH

CHECK BY:
NEW

ISSUE DATE:
08/30/2024

PROJECT NO:
2333

REVISION DATES:
10/04/2024

AREA C MECHANICAL
ROOF PLAN

SHEET

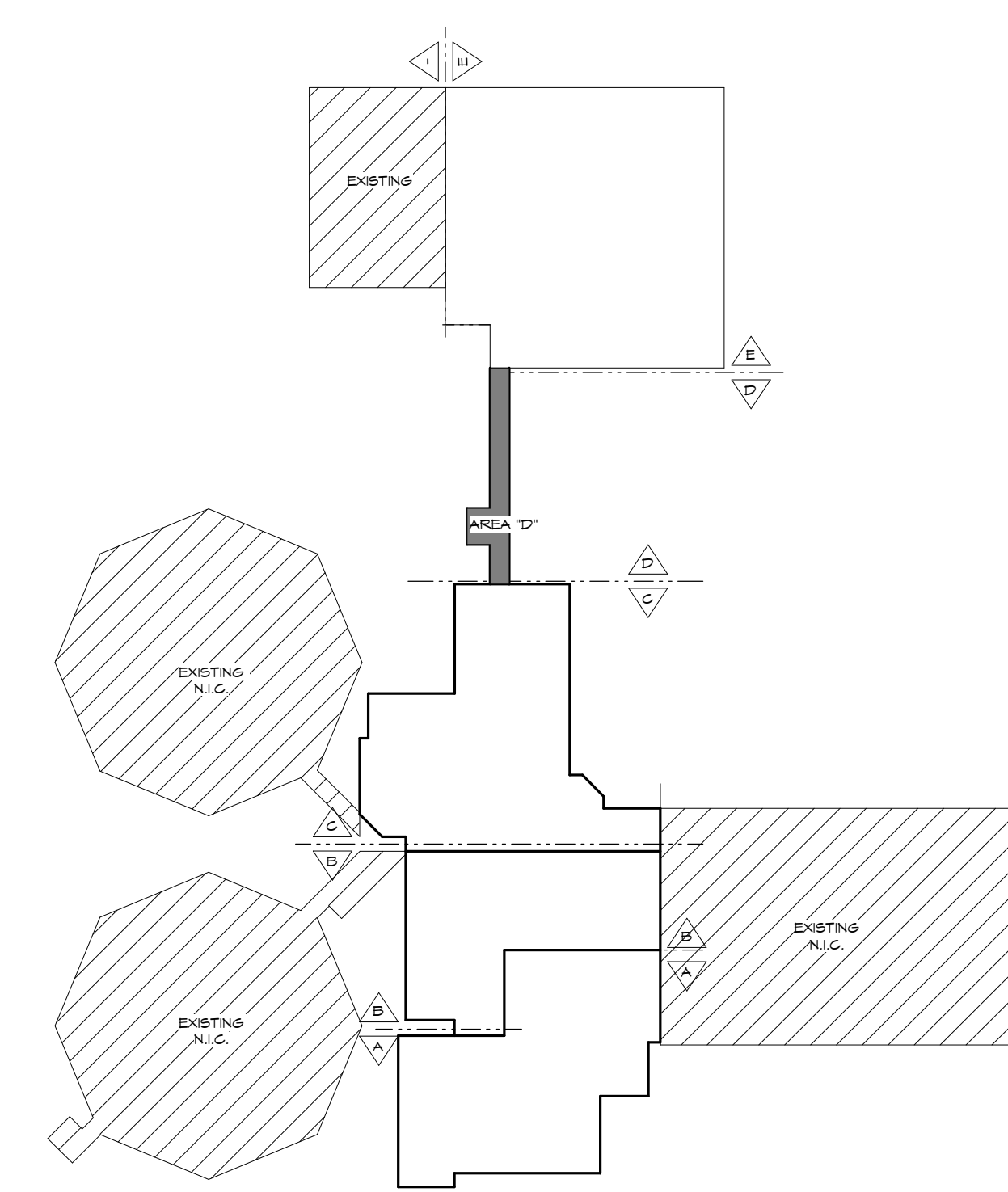
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AREA D MECHANICAL
ROOF PLAN

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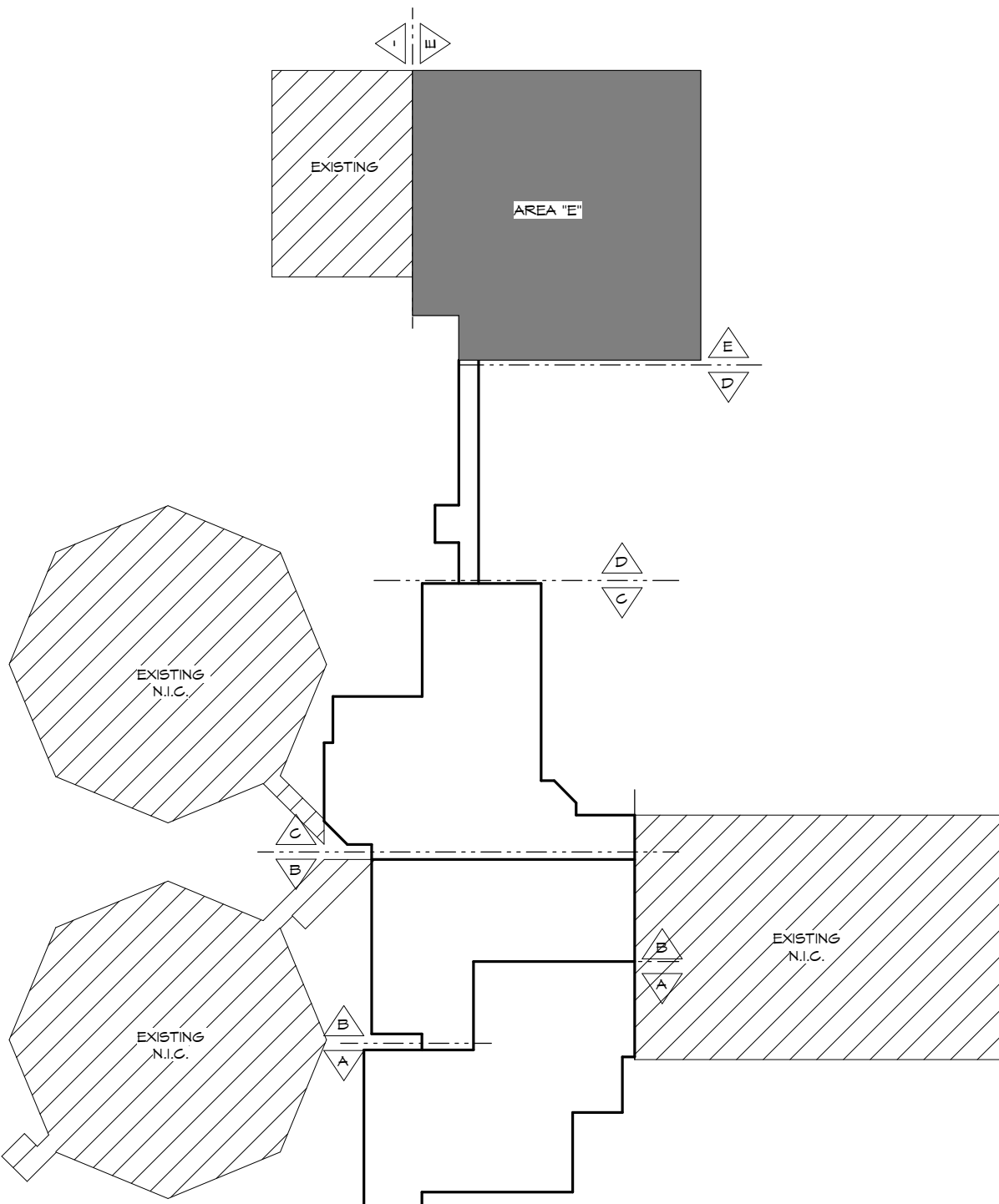


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AREA E MECHANICAL
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GENERAL HVAC NOTES

- COORDINATE GRILLE LOCATIONS WITH LIGHT FIXTURES, SPRINKLERS AND CEILING GRID.
- INDICATED DUCT SIZES ARE NET FREE AREA.
- ADJUST ALL AIR QUANTITIES AS SHOWN ON THE PLANS AFTER COMPLETION OF THE JOB.
- INSULATE THE SUPPLY GRILLE TOPS, RETURN AIR GRILLE PLENUMS AND EXHAUST AIR PLENUMS WITH 2 IN., 3/4 LB DENSITY FOIL BACKED INSULATION.
- FIRE AND/OR SMOKE DAMPERS ARE INDICATED ON MECHANICAL DRAWINGS. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY LOCATIONS AND FIRE RATING REQUIREMENTS WHERE ANY DUCT PASSES THROUGH A PARTITION. REFER TO ARCHITECTURAL PLANS FOR LOCATION OF ALL FIRE AND SMOKE PARTITIONS. VERIFY REQUIRED DAMPER ASSEMBLY IN ALL DUCTS PENETRATING THESE WALLS PER ALL STATE AND LOCAL CODES.
- EXTERNALLY INSULATE ALL ROUND SUPPLY AND RETURN DUCT, INTERNALLY INSULATE ALL RECTANGULAR SUPPLY AND RETURN DUCT PER MECHANICAL CODE. ATTACH THE INTERNAL INSULATION TO THE DUCT WITH APPROVED ADHESIVE AND WELDED FASTENERS.
- MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCTWORK WITH FIELD CONDITIONS AND PROVIDE ALL OFFSETS, BENDS, TRANSITIONS AND SPECIAL FITTINGS FOR A COMPLETE INSTALLATION OF THE SYSTEMS.
- USE FLANGED AND GASKETED DUCT CONSTRUCTION FOR RECTANGULAR DUCT CONVEYING AIR AT STATIC PRESSURES ABOVE 2 IN. W.G. USE LOCKED SEAM SPIRAL DUCT CONSTRUCTION FOR ROUND DUCT CONVEYING AIR AT STATIC PRESSURES ABOVE 2 IN. W.G. ALL HIGH PRESSURE DUCT CONSTRUCTION SHALL ADHERE TO SMAGNA DUCT CONSTRUCTION STANDARDS (LATEST EDITION) FOR DUCT CLASSIFICATION UP TO 5 IN. W.G.
- INTERIOR OF ALL DUCT PLENUMS VISIBLE THROUGH GRILLE SHALL BE PAINTED MATTE BLACK PRIOR TO INSTALLATION.
- INTERLOCK EXHAUST FANS WITH LIGHT SWITCHES. REFER TO ELECTRICAL PLANS.
- PAINT ALL SUPPLY AND RETURN AIR GRILLES NOT SPECIFIED AS PRE-FINISHED, TO ARCHITECT'S SPECIFICATIONS UNLESS OTHERWISE SPECIFIED.
- MAINTAIN 10 FT. MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKES AND ALL EXHAUST OUTLETS, GAS FLUES AND PLUMBING VENTS.
- INSTALL VOLUME CONTROL DAMPERS IN SUPPLY, RETURN, EXHAUST AND FRESH AIR BRANCH DUCT RUNS.
- RECIRCULATING AIR SYSTEMS WITH A FAN CAPACITY GREATER THAN 2,000 NOMINAL CFM SHALL AUTOMATICALLY SHUT DOWN BY MEANS OF AN APPROVED SMOKE DETECTOR PLACED IN THE RETURN AIR STREAM PRIOR TO ANY EXHAUSTING FROM THE BUILDING OR MIXING WITH FRESH AIR MAKEUP. ALL CONTROLS SHALL BE LISTED, UPON ACTIVATION OF THE SAFETY CONTROL, THE SYSTEM SHALL NOT RESTART UNTIL THE SAFETY CONTROL IS MANUALLY RESET.
- ALL MECHANICAL INSTALLATIONS SHALL CONFORM TO THE LATEST ACCEPTABLE MECHANICAL CODE.
- SEAL ALL DUCT SEAMS WITH HARDCAST IRON GRIP 601 SEALANT SYSTEM OR AN APPROVED EQUAL. DUCT TAPE, WHETHER LISTED OR NOT, WILL NOT BE ACCEPTED.
- FABRICATE AND INSTALL ALL GALVANIZED DUCT SYSTEMS TO SMAGNA DUCT CONSTRUCTION STANDARDS, LATEST EDITION, AND MECHANICAL CODE.
- MECHANICAL CONTRACTOR SHALL REFER TO THE FOOD SERVICE DRAWINGS AND PROVIDE ALL REQUIRED MECHANICAL FOOD SERVICE EQUIPMENT CONNECTIONS.
- FABRICATE AND INSTALL AUXILIARY CONDENSATE DRAIN PAN UNDER ENTIRE AIR HANDLER WITH CONDENSATE PAN SWITCH INTERLOCKED WITH AIR HANDLER FOR SHUT DOWN WHEN CONDENSATE OVER FLOW IS SENSED.
- EVERY ATTIC OR FURRED SPACE IN WHICH MECHANICAL EQUIPMENT IS INSTALLED SHALL BE ACCESSIBLE BY AN OPENING AND PASSAGEWAY AS LARGE AS THE LARGEST PIECE OF THE EQUIPMENT AND IN NO CASE LESS THAN 22 X 36 INCHES CONTINUOUS FROM THE OPENING TO THE EQUIPMENT AND ITS CONTROLS. THE OPENING TO THE PASSAGEWAY SHALL BE LOCATED NOT MORE THAN 20 FT. FROM THE EQUIPMENT MEASURED ALONG THE CENTERLINE OF SUCH PASSAGEWAY. EVERY PASSAGEWAY SHALL BE UNOBSTRUCTED AND SHALL HAVE SOLID CONTINUOUS FLOORING NOT LESS THAN 24 IN. WIDE FROM THE EQUIPMENT. ON THE CONTROL SIDE AND OTHER SIDES WHERE ACCESS IS NECESSARY FOR SERVICING THE EQUIPMENT, A LEVEL PLATFORM EXTENDING A MINIMUM 30 IN. FROM THE EDGE OF THE EQUIPMENT WITH A 36 IN. HIGH CLEAR WORKING SPACE SHALL BE PROVIDED. TOP OR BOTTOM SERVICE EQUIPMENT SHALL HAVE A FULL CLEARANCE ABOVE OR BELOW THE UNIT FOR COMPONENT REMOVAL.
- SMOKE DETECTOR PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.
- SUPPLY AIR SYSTEMS AND RETURN AIR SYSTEMS INSTALLED IN AN ATTIC, VENTILATED CRAWL SPACE OR OTHER NON-CONDITIONED AREA SHALL BE INSULATED.
- SPRINKLER CONTRACTOR TO BE RESPONSIBLE FOR ROUTING ALL SPRINKLER PIPING TO AVOID ALL UNCONDITIONED SPACES.
- DO NOT SCALE DIRECTLY FROM THE HVAC DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL INFORMATION.
- MECHANICAL CONTRACTOR SHALL INSTALL ALL EQUIPMENT, FANS AND APPLIANCES A MINIMUM OF 10 FEET FROM A ROOF EDGE OR OPEN SIDE WHERE SUCH EDGE OR OPEN SIDE IS GREATER THAN 30 INCHES ABOVE A FLOOR, ROOF OR GRADE BELOW. GUARD RAILS A MINIMUM OF 42 INCHES ABOVE THE ELEVATED SURFACE SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR AND EXTENDED A MINIMUM OF 30 INCHES BEYOND EACH END OF SUCH EQUIPMENT, FAN OR APPLIANCE WHERE APPLIANCES, EQUIPMENT, FANS OR OTHER COMPONENTS ARE LOCATED WITHIN THE REQUIRED 10 FOOT CLEARANCE REQUIREMENT. THE GUARD SHALL BE CONSTRUCTED SO AS TO PREVENT THE PASSAGE OF A 21 INCH DIAMETER SPHERE AND COMPLY WITH THE LOADING REQUIREMENTS FOR GUARDS SPECIFIED IN THE LATEST ACCEPTED INTERNATIONAL BUILDING CODE.
- EVERY APPLIANCE LOCATED ON A ROOF OF A BUILDING SHALL BE INSTALLED ON A SUBSTANTIAL LEVEL PLATFORM, WHENEVER THE ROOF HAS A SLOPE 4:12 OR GREATER, A LEVEL WORKING PLATFORM NOT LESS THAN 30 IN. DEEP SHALL BE PROVIDED IN FRONT OF THE ENTIRE FIREBOX AND CONTROL SIDES OF THE APPLIANCE. ALL SIDES OF ANY WORKING PLATFORM FACING ANY PORTION OF THE ROOF EDGE BELOW THE PLATFORM SHALL BE PROTECTED BY SUBSTANTIAL RAILING 42 IN. HIGH WITH VERTICAL RAILS NOT MORE THAN 21 IN. APART, EXCEPT THAT PARAPETS AT LEAST 24 IN. HIGH MAY BE UTILIZED IN LIEU OF RAILS OR GUARDS. REQUIRED WORKING PLATFORMS AND RAILINGS MAY BE OMITTED WHEN ACCESS TO THE EQUIPMENT IS THROUGH A REQUIRED ROOF SCUTTLE AND ALL OF THE FOLLOWING PROVISIONS ARE MET:
 - THE REQUIRED SCUTTLE IS LOCATED IMMEDIATELY ADJACENT TO THE CONTROL SIDE OF THE EQUIPMENT UNIT.
 - ALL CONTROLS, FILTERS, BURNERS, FANS, AND MOTORS ARE ACCESSIBLE FOR SERVICE AND REPAIR WITHIN 2 FT. OF THE EDGE OF THE EQUIPMENT PLATFORM ON THE SCUTTLE SIDE.
 - THE EQUIPMENT PLATFORM IS NOT MORE THAN 20 IN. ABOVE THE HIGH SIDE OF THE SCUTTLE OPENING.
 - A SUBSTANTIAL WORKING PLATFORM NOT LESS THAN 30 IN. BY 30 IN. SHALL BE PROVIDED DIRECTLY BELOW THE SCUTTLE AT A POINT NOT LESS THAN 30 IN. OR MORE THAN 32 IN. BELOW THE HIGH SIDE OF THE SCUTTLE OPENING.
 - SCUTTLES LOCATED ON OTHER THAN THE ROOF INCLINE SIDE OF THE EQUIPMENT UNIT SHALL HAVE THEIR LIDS OR TRAP DOORS HINGED ON THE LOW SIDE OF THE SCUTTLE.

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MECHANICAL LEGEND

- ☒

SUPPLY DUCT SECTION

☒

RETURN OR EXHAUST DUCT SECTION

☒

CEILING SUPPLY GRILLE

☒

CEILING RETURN GRILLE

☒

CEILING EXHAUST GRILLE

┆┆┆

SIDEWALL SUPPLY OR RETURN GRILLE

①

SEE KEYED NOTES

—MB—

MAN BAR

Ⓜ

MOTORIZED DAMPER
- SUPPLY, RETURN, OR EXHAUST DUCT

SUPPLY, RETURN, OR EXHAUST DUCT

EXISTING SUPPLY, RETURN, OR EXHAUST DUCT

≡ OR ≡

VOLUME DAMPER

▮

RECTANGULAR DUCT FIRE DAMPER

Ⓜ

ROUND DUCT FIRE DAMPER (NUMBER DENOTES FIRE RATING OF WALL. EXAMPLE: 1FD = ONE HR. RATED WALL)

☒

FLEX DUCT CONNECTION MAXIMUM OF 5 FT.

—SD—

SMOKE DETECTOR

F-1①

THERMOSTAT. MOUNT AT 48" A.F.F TO TOP (NUMBER DENOTES FURNACE OR AIR HANDLER UNIT)



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ASSOCIATES
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HVAC NOTES & LEGEND

1 2 3 4

M1.1

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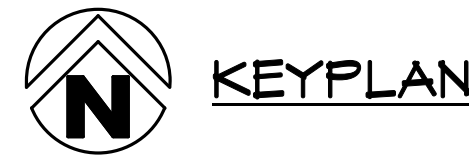
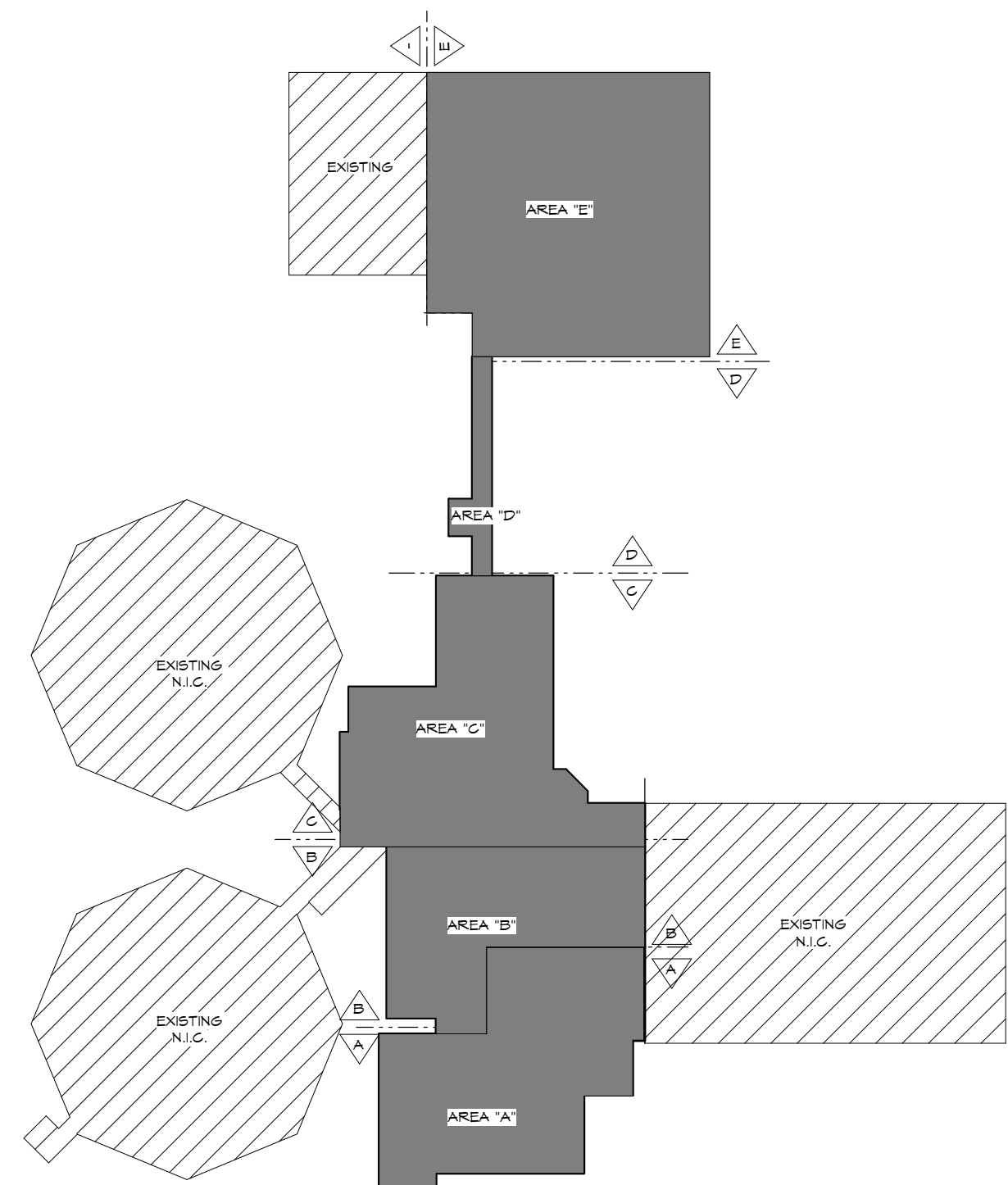
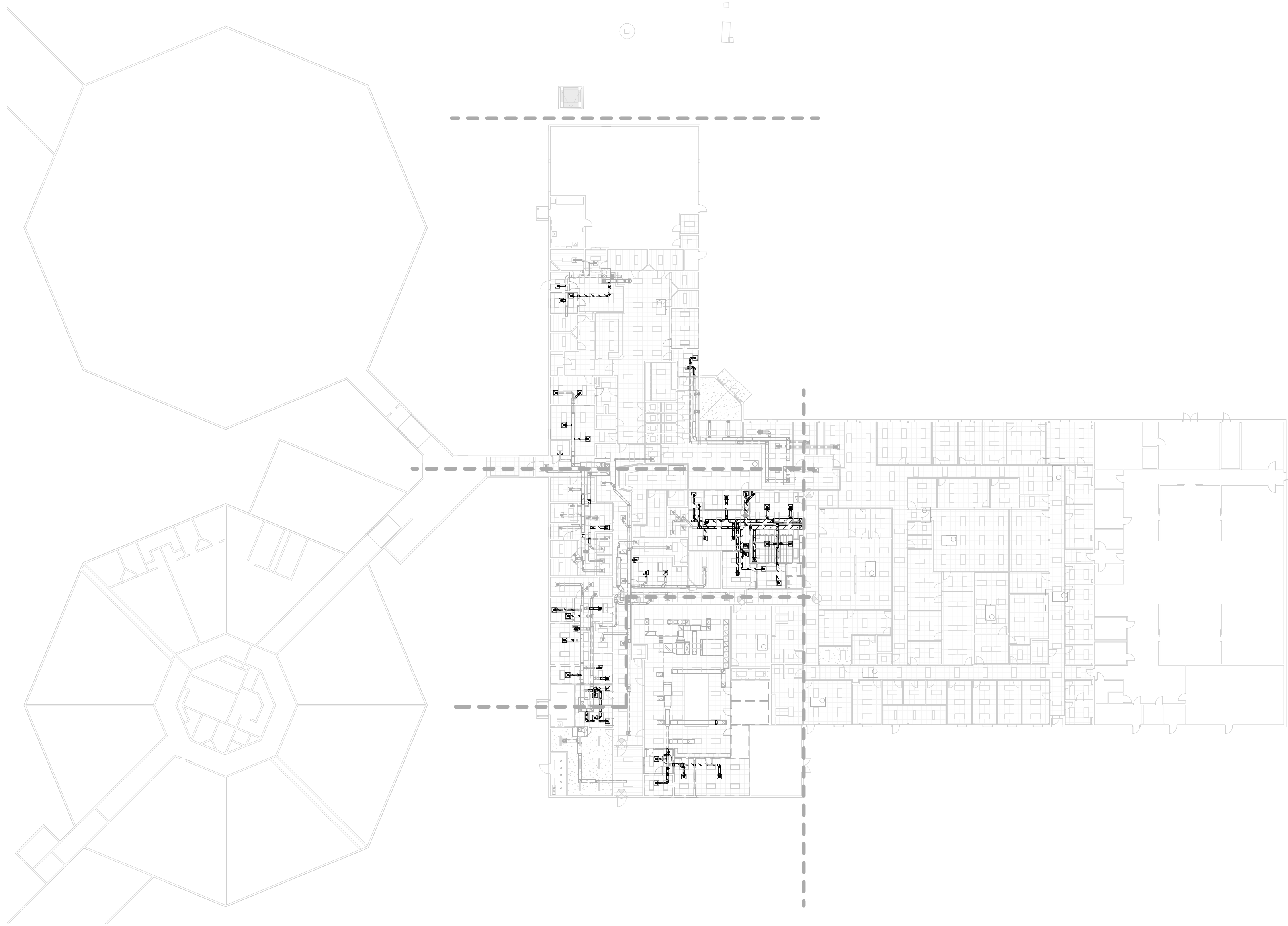
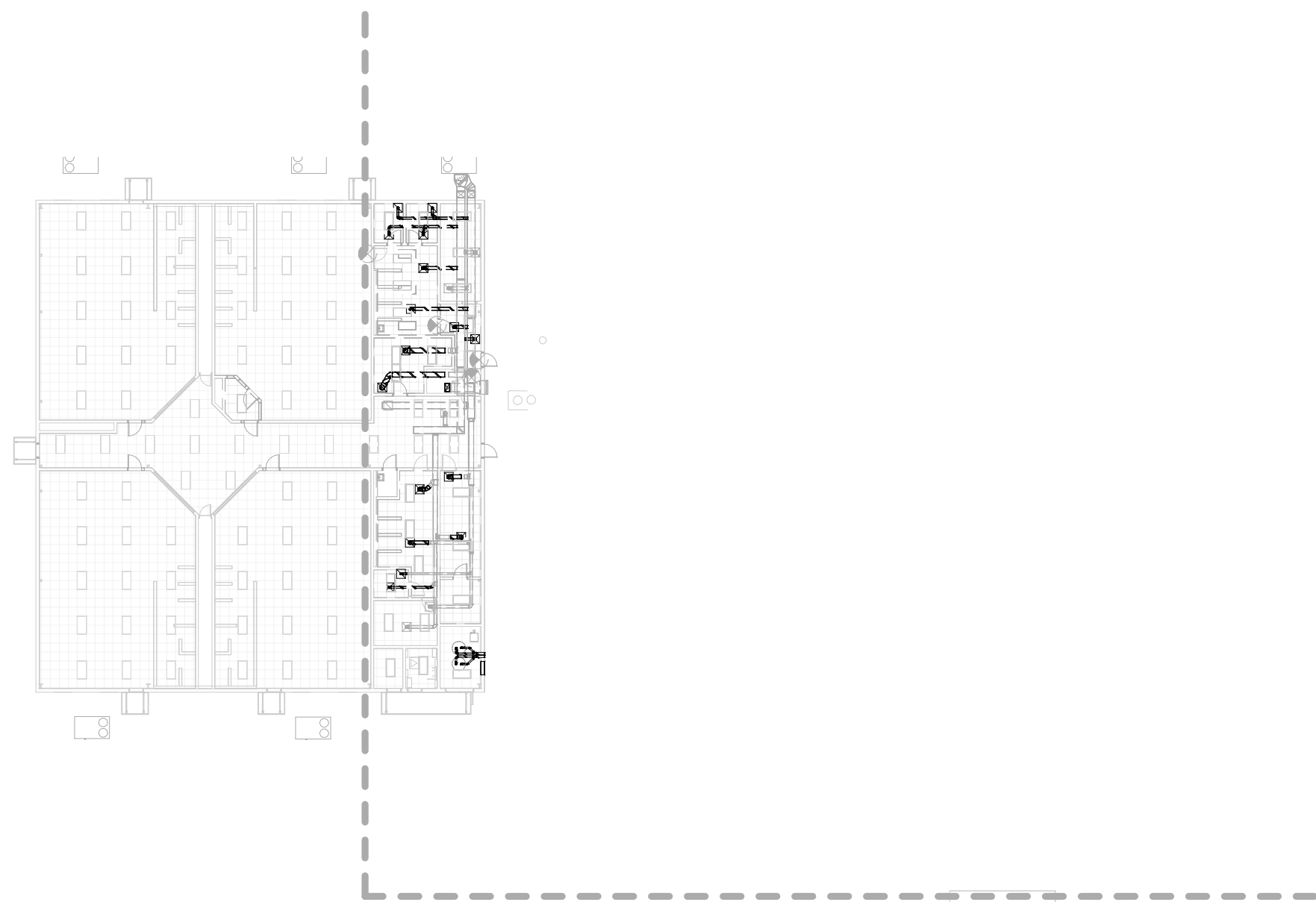
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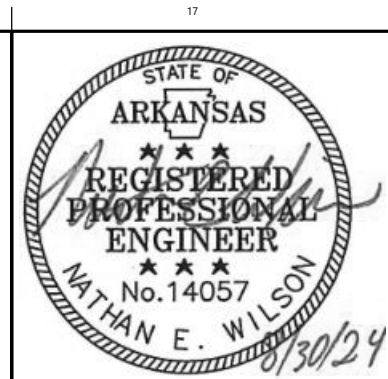




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1 OVERALL FIRST FLOOR HVAC DEMOLITION PLAN
1/32" = 1'-0"



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PROJECT NO.	2333
REVISION DATE	10/04/2024
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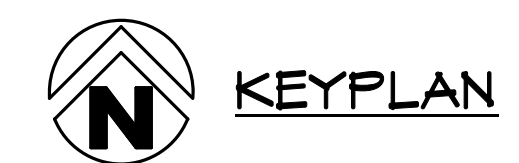
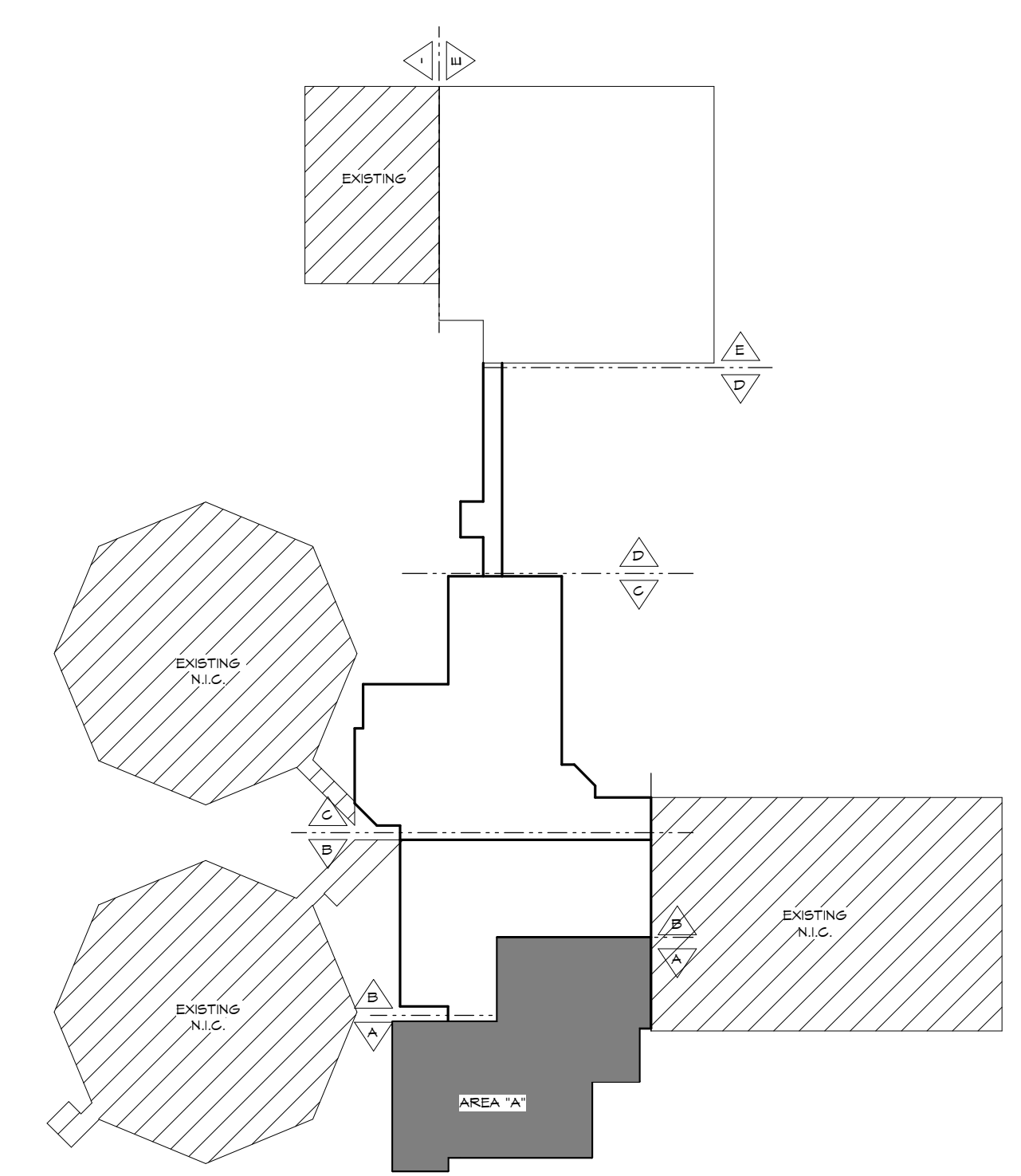
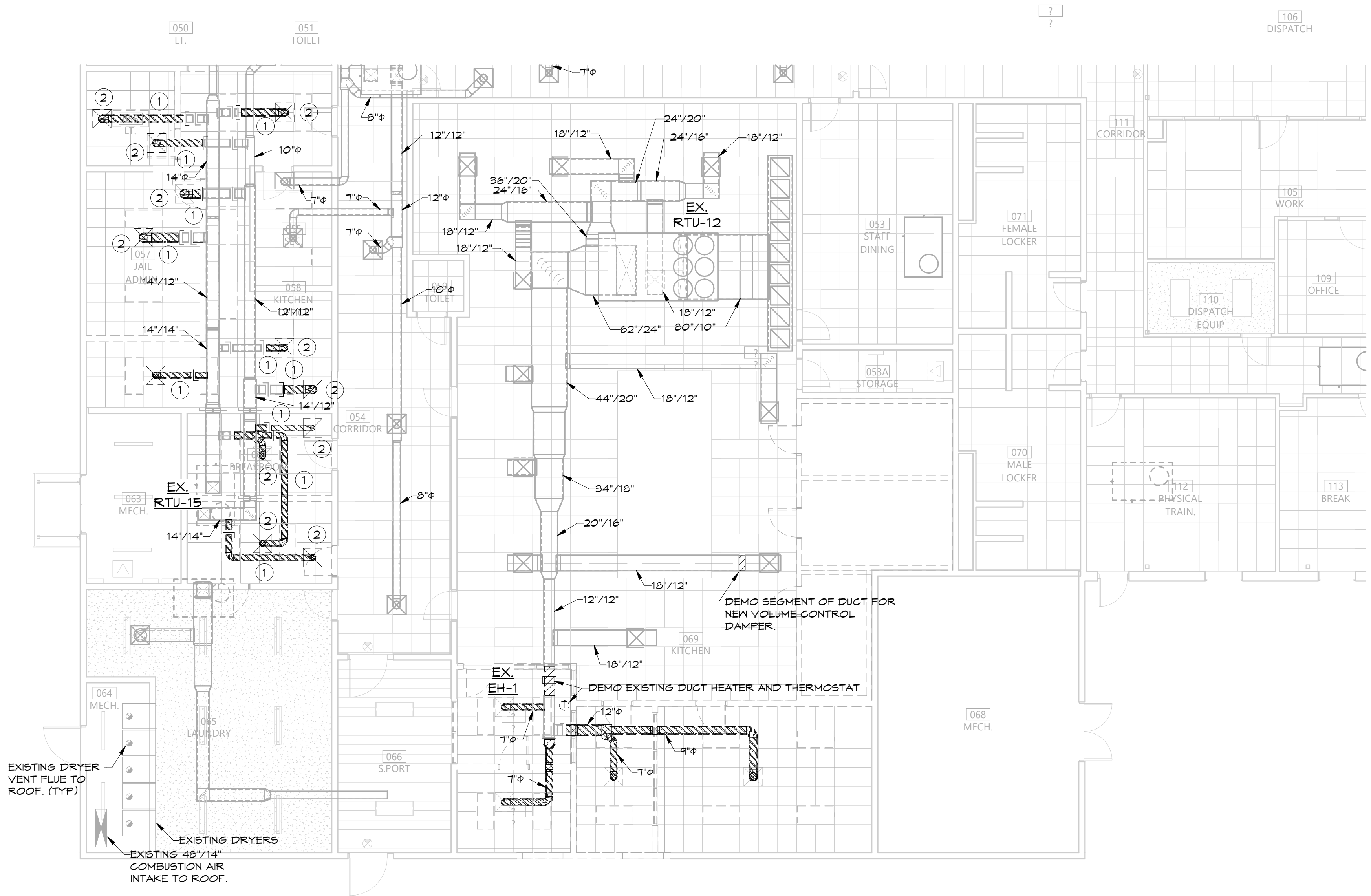
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STATUS	NEW
DATE	08/30/2024
NO. OF SHEETS	2333
DATE	10/04/2024
PROJECT NAME	AREA A FIRST FLOOR HVAC DEMO PLAN
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DEMO KEYED NOTES

- 1 DEMO EXISTING DUCTWORK AS SHOWN, CAP ALL OPENINGS.
- 2 DEMO EXISTING GRILLE.





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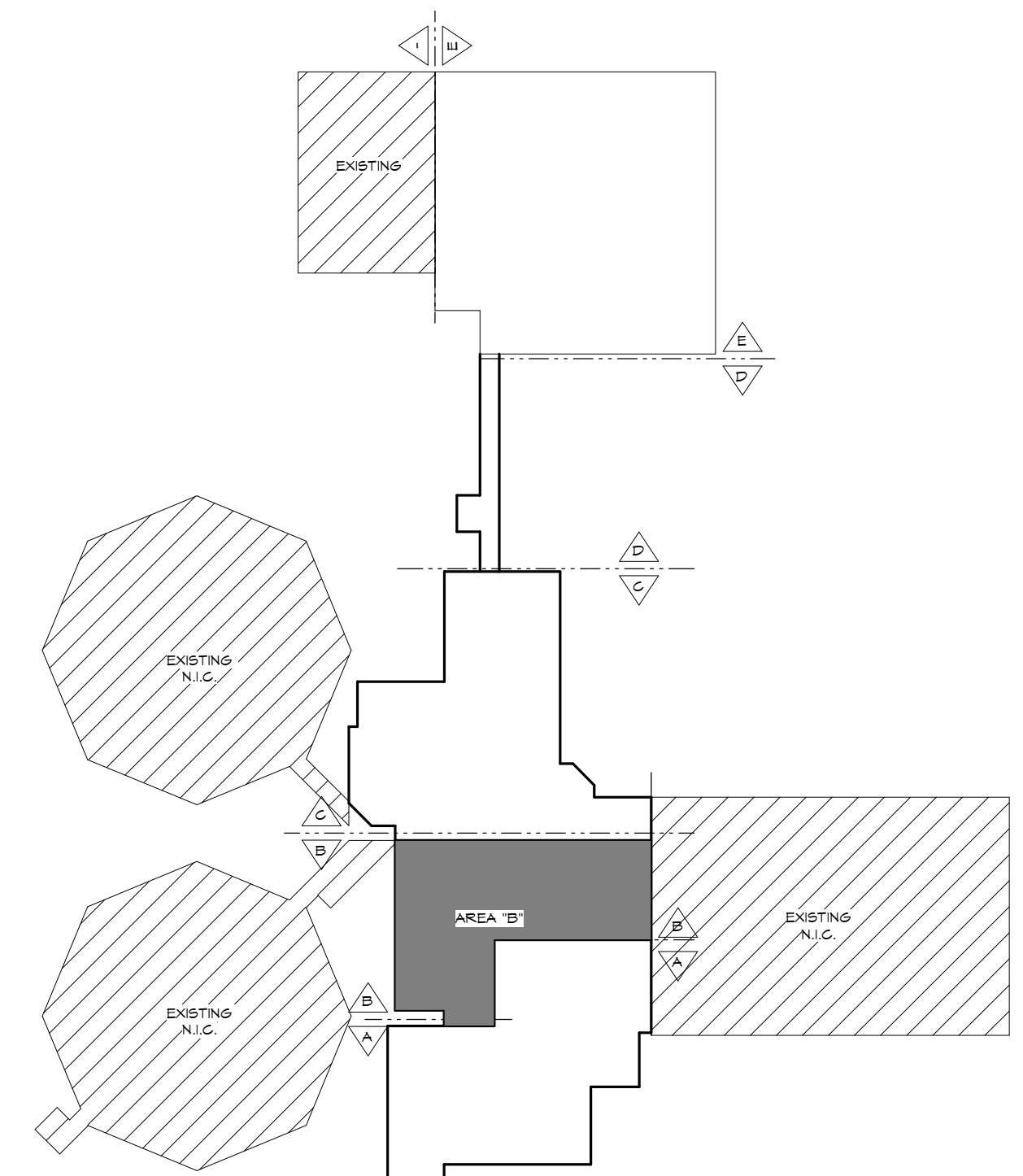
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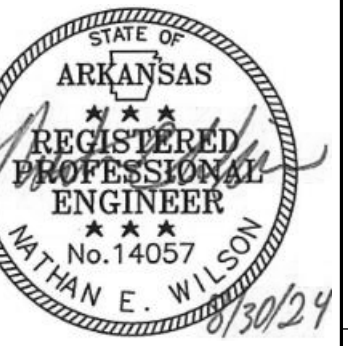


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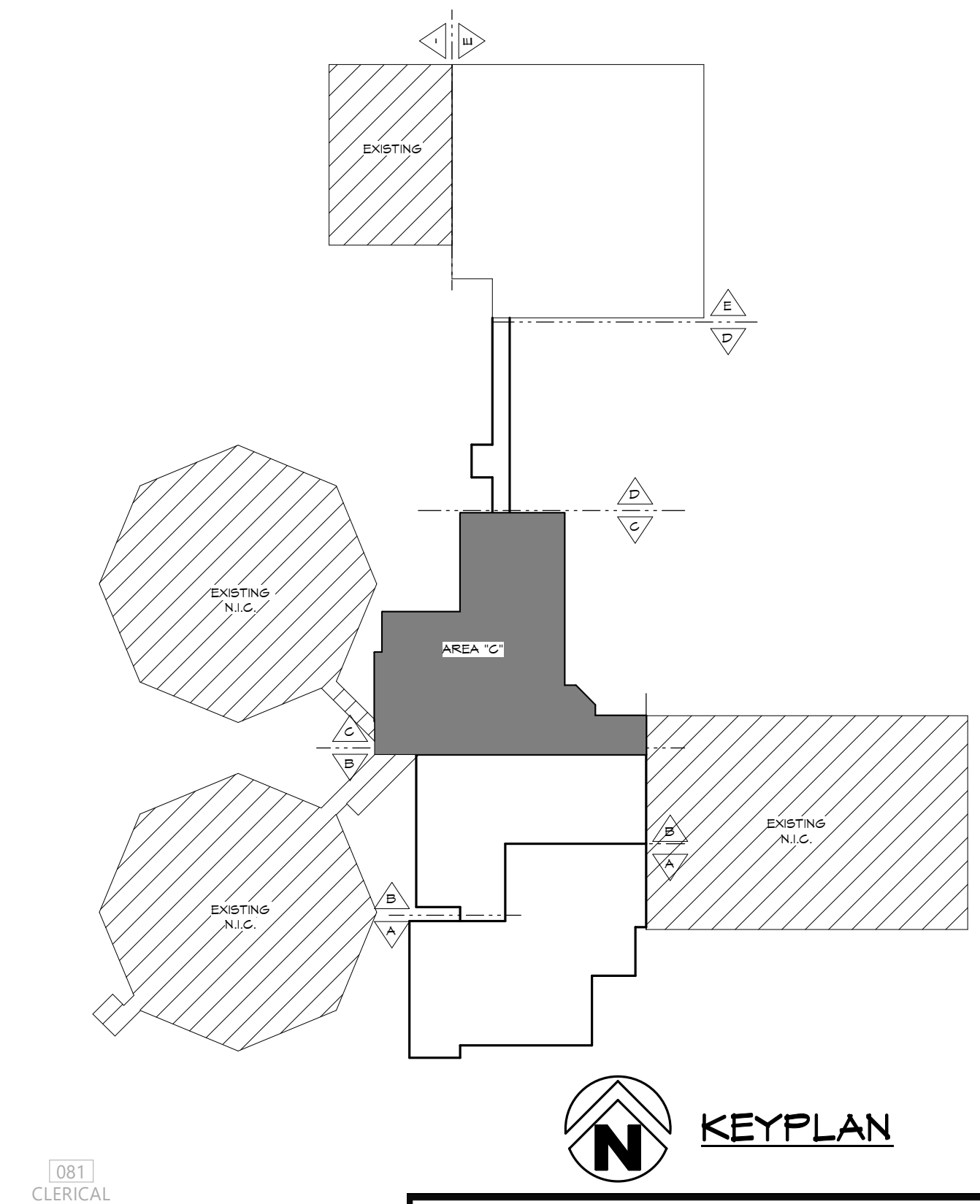
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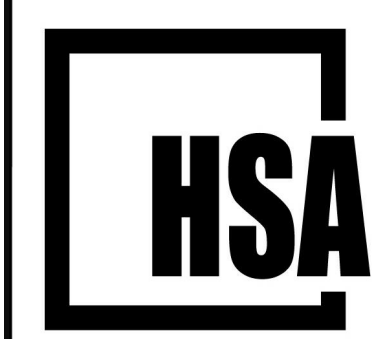
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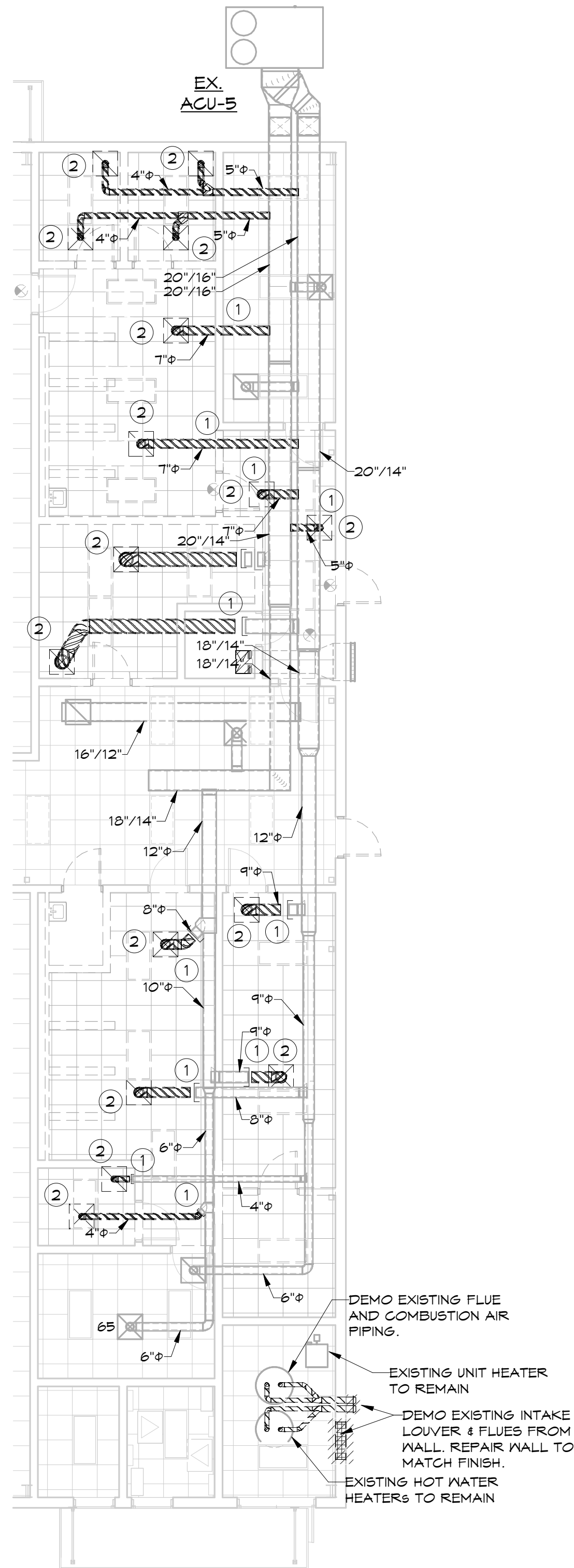


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1/8" = 1'-0"



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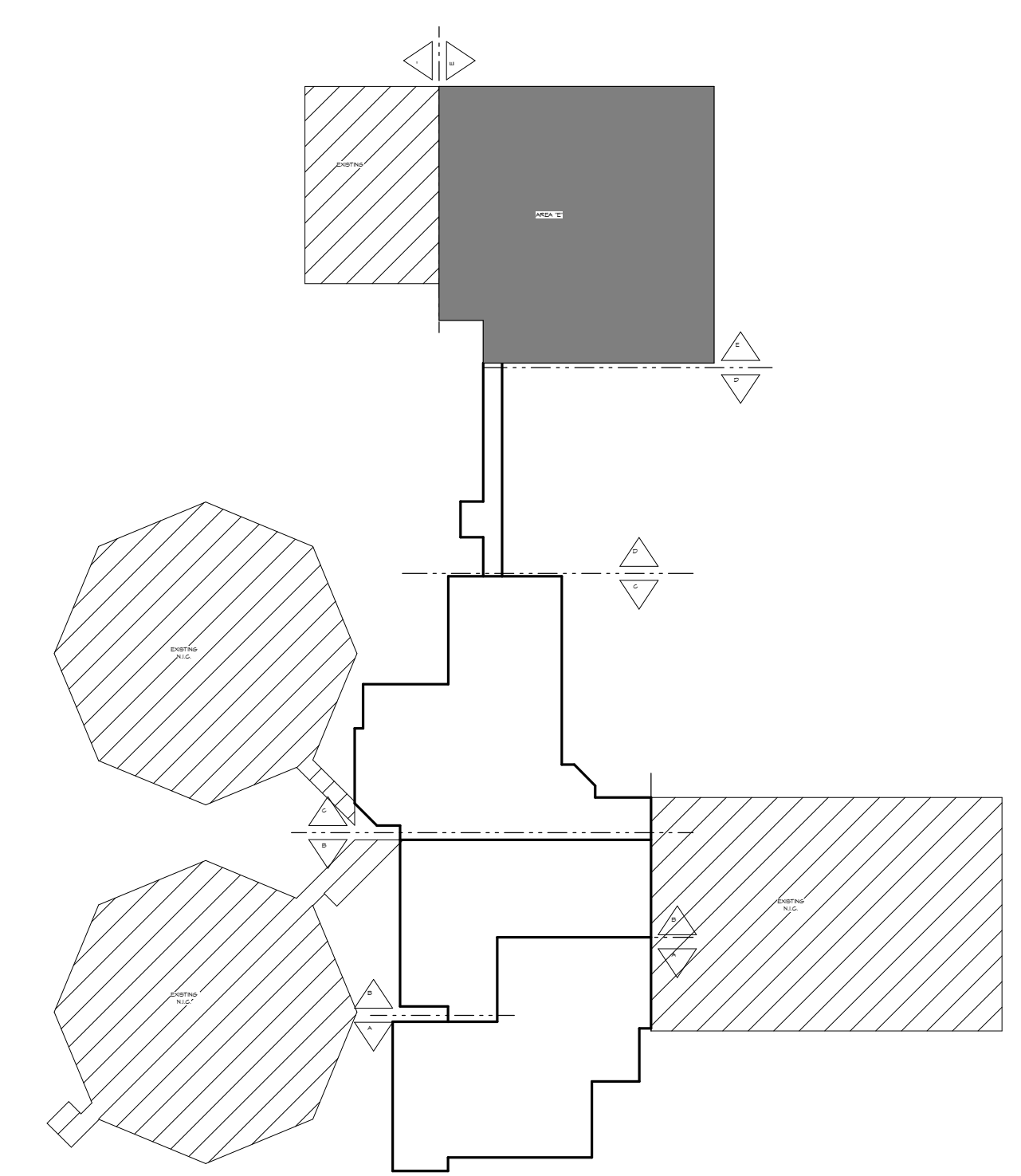
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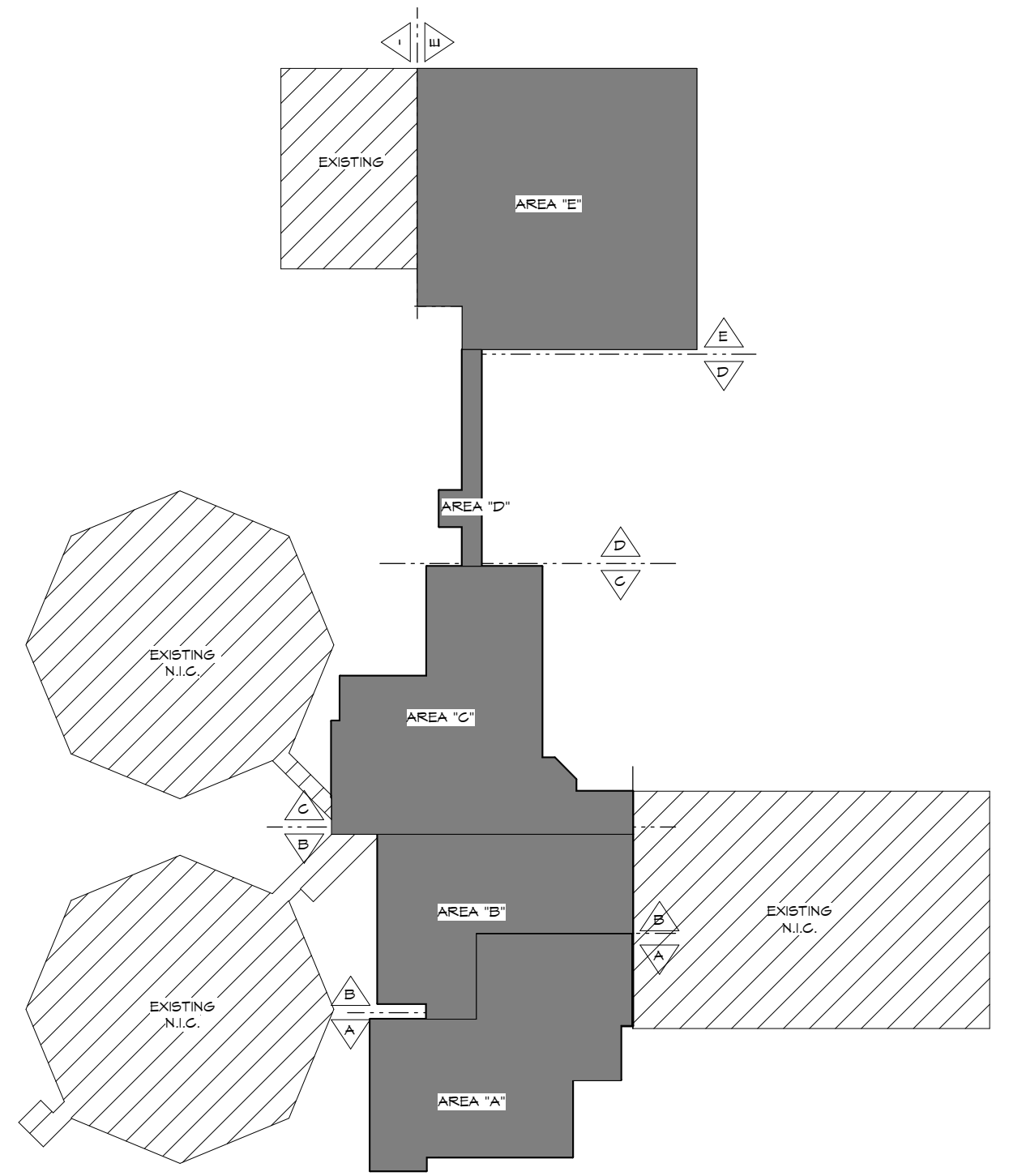
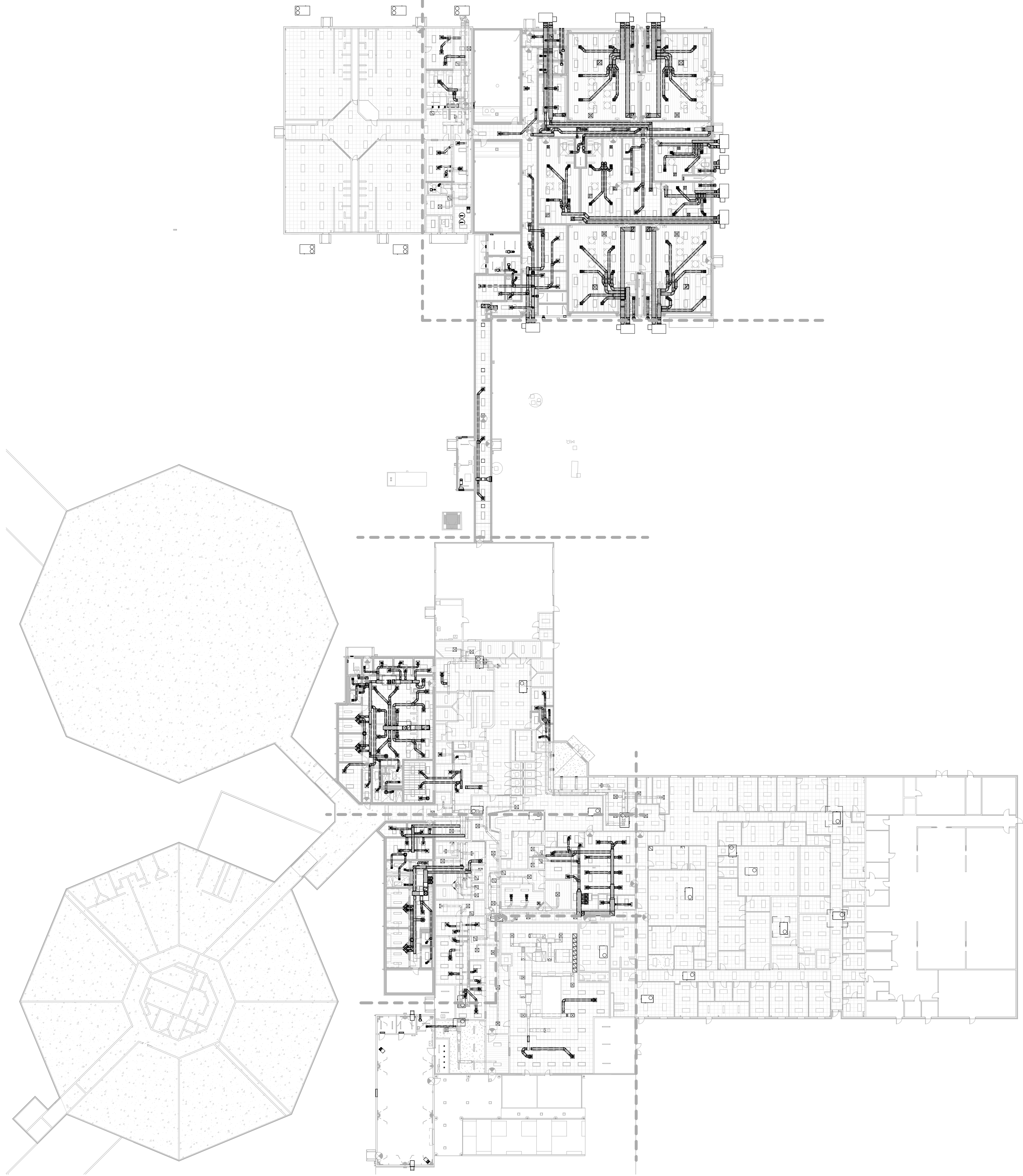
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KEYPLAN



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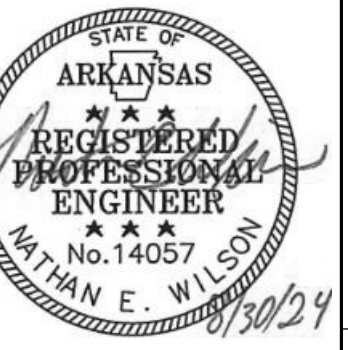
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HVAC KEYED NOTES

- 1 SMOKE DETECTORS TO BE INSTALLED IN THE SUPPLY AND RETURN AIR DUCTS AND INTERLOCKED WITH AIR HANDLER FAN FOR SHUT-OFF PER N.F.P.A. 90 A & B ON ALL AIR HANDLERS GREATER THAN 2000 C.F.M. SUPPLY AIR DUCT SMOKE DETECTOR SHALL BE INSTALLED ON SUPPLY SIDE OF AIR HANDLING SYSTEM DOWN STREAM OF ANY AIR FILTERS AND PRIOR TO ANY BRANCH DUCT CONNECTIONS. EXCEPTION: THE SMOKE DETECTOR IN THE SUPPLY AIR STREAM MAY BE OMITTED IN SYSTEMS 2000 C.F.M. OR LESS. CAPACITY REGULATING AIR SYSTEMS WITH FAN CAPACITY LESS THAN 2000 C.F.M. BUT SERVING AREAS USED FOR EGRESS SHALL HAVE AUTOMATIC SMOKE DETECTION SHUTDOWN. SMOKE DETECTORS SHALL BE PROVIDED, INSTALLED AND WIRED BY (MECHANICAL CONTRACTOR) (FIRE ALARM CONTRACTOR). MECHANICAL CONTRACTOR SHALL WIRE SMOKE DETECTOR TO THE FAN SHUT OFF CONTACTS. MECHANICAL CONTRACTOR SHALL PROVIDE ALL ACCESSORIES REQUIRED TO MAKE THE FAN SHUT OFF CONNECTION. LOCATE SMOKE DETECTORS IN RETURN AIR DUCT PRIOR TO THE INTRODUCTION OF THE OUTSIDE AIR. (MECHANICAL CONTRACTOR SHALL PROVIDE SMOKE DETECTORS COMPATIBLE WITH THE BUILDING'S EXISTING FIRE ALARM SYSTEM.)
- 2 MAINTAIN A MINIMUM OF 10 FT. CLEARANCE BETWEEN ALL EXHAUST OUTLETS, FLUES, PLUMBING VENTS AND ANY FRESH AIR INTAKES. IF 10 FT. CLEARANCE CAN NOT BE MAINTAINED EXHAUST OUTLET, FLUE, OR VENT MUST TERMINATE AT A POINT AT LEAST 36 IN. ABOVE HIGHEST FRESH AIR INTAKE WITHIN 10 FT. LIMIT.
- 3 LOCATE THERMOSTAT AS INDICATED WITH THE CENTER OF THE THERMOSTAT AT 48 IN. ABOVE FINISHED FLOOR. SEAL ALL THERMOSTAT CONDUITS AT TOP AND BOTTOM OF CONDUIT. PROVIDE INSULATED BACKING FOR MOUNTING THERMOSTATS.
- 4 MECHANICAL CONTRACTOR SHALL INSTALL ALL EQUIPMENT, FANS AND APPLIANCES A MINIMUM OF 10 FEET FROM A ROOF EDGE OR OPEN SIDE WHERE SUCH EDGE OR OPEN SIDE IS GREATER THAN 30 INCHES ABOVE A FLOOR, ROOF OR GRADE BELOW. GUARD RAILS A MINIMUM OF 42 INCHES THE ELEVATED SURFACE SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR AND EXTENDED A MINIMUM OF 30 INCHES BEYOND EACH END OF SUCH EQUIPMENT. FAN OR APPLIANCE WHERE APPLIANCES, EQUIPMENT, FANS OR OTHER COMPONENTS ARE LOCATED WITHIN THE REQUIRED 10 FOOT CLEARANCE REQUIREMENT. THE GUARD SHALL BE CONSTRUCTED SO AS TO PREVENT THE PASSAGE OF A 21 INCH DIAMETER SPHERE AND COMPLY WITH THE LOADING REQUIREMENTS FOR GUARDS SPECIFIED IN THE LATEST ACCEPTED INTERNATIONAL BUILDING CODE.
- 5 MOTORIZED SMOKE CONTROL DAMPERS LOCATED IN DUCT TO BE INTERLOCKED PER HVAC SMOKE CONTROL DIAGRAMS. DAMPERS TO BE LOCATED IN ALL VERTICAL DUCT RUNS FOR EXHAUST & SUPPLY SMOKE CONTROL FANS SERVING ZONES. MOTORIZED SMOKE CONTROL DAMPERS TO BE LOCATED IN SA & RA FOR UNITS SERVING ZONES. REFER TO M3.2-M3.5 FOR ZONE CONTROL DIAGRAMS AND NOTES.
- 6 REUSE EXISTING GRILLE. TEST AND BALANCE TO ADJUST DAMPER TO MATCH LISTED CFM BELOW KEYNOTE.
- 7 CONNECT DUCT TO EXISTING BRANCH. SIZE TO MATCH EXISTING.
- 8 DUCT PENETRATION TO HAVE MANBARS. REFER TO DETAILS 5 THROUGH 7 FOR MORE INFORMATION.

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ASSOCIATES
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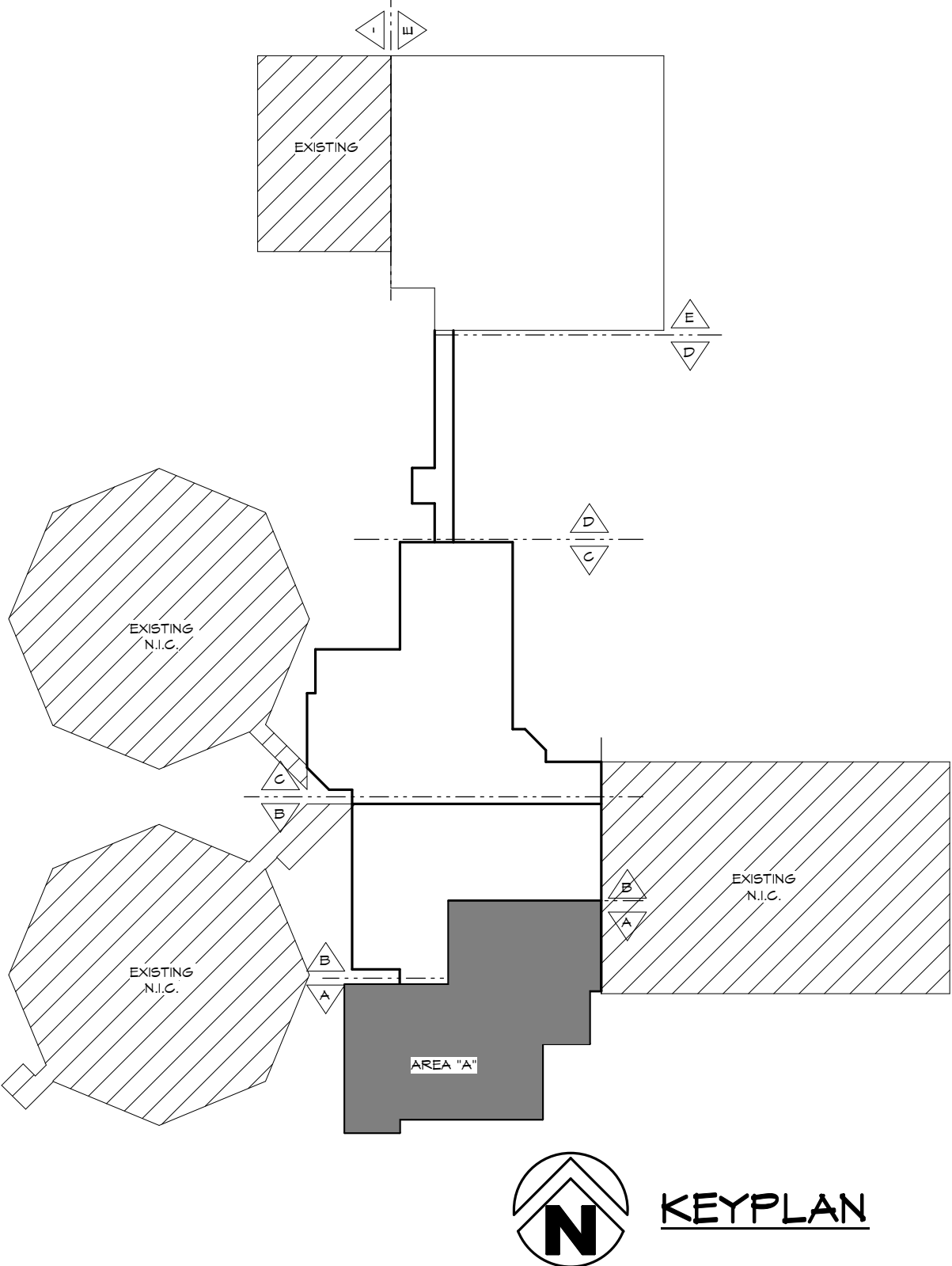
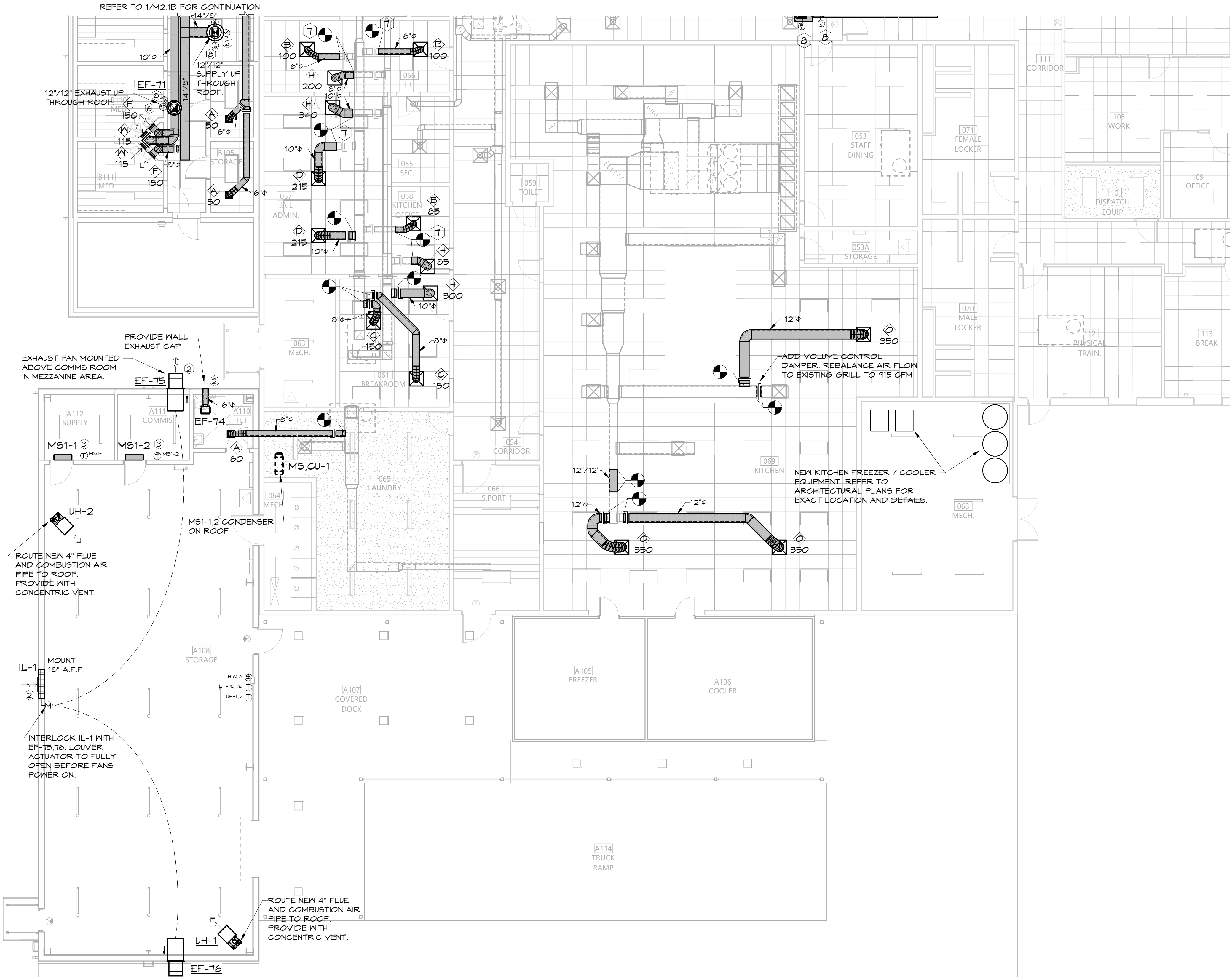
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AREA A FIRST FLOOR
HVAC PLAN

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1 AREA A FIRST FLOOR HVAC PLAN
1/8" = 1'-0"



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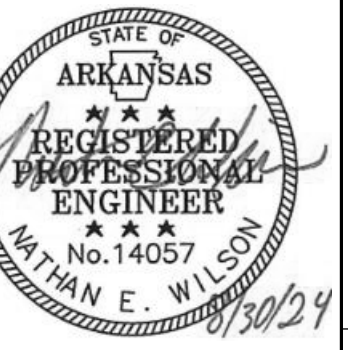
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- CONNECT DUCT TO EXISTING BRANCH. SIZE TO MATCH EXISTING.
- DUCT PENETRATION TO HAVE MANBARS. REFER TO DETAILS 5 THROUGH 7 FOR MORE INFORMATION.
- REBALANCE EXISTING DIFFUSER TO MATCH CFM NOTED BELOW.

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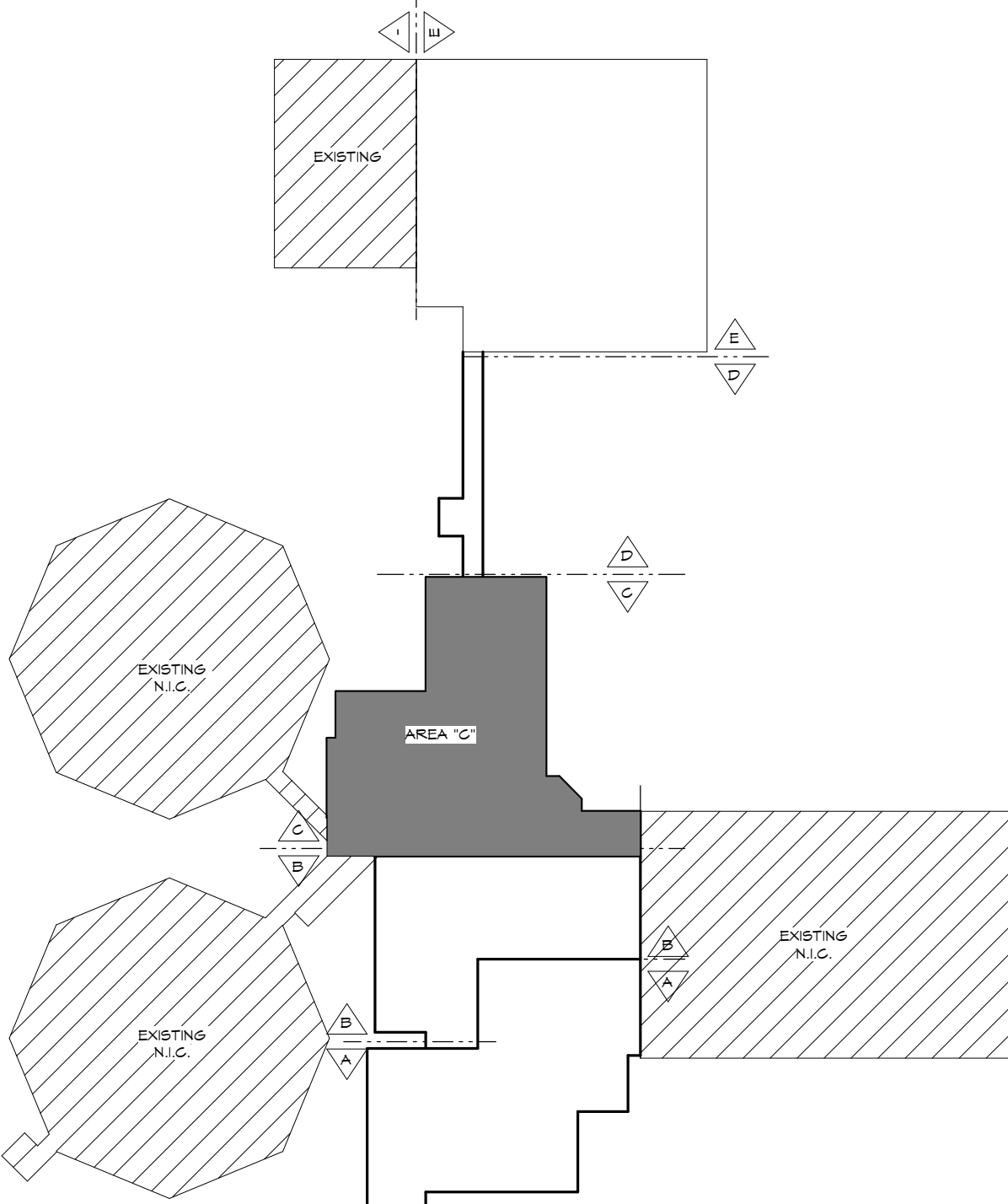
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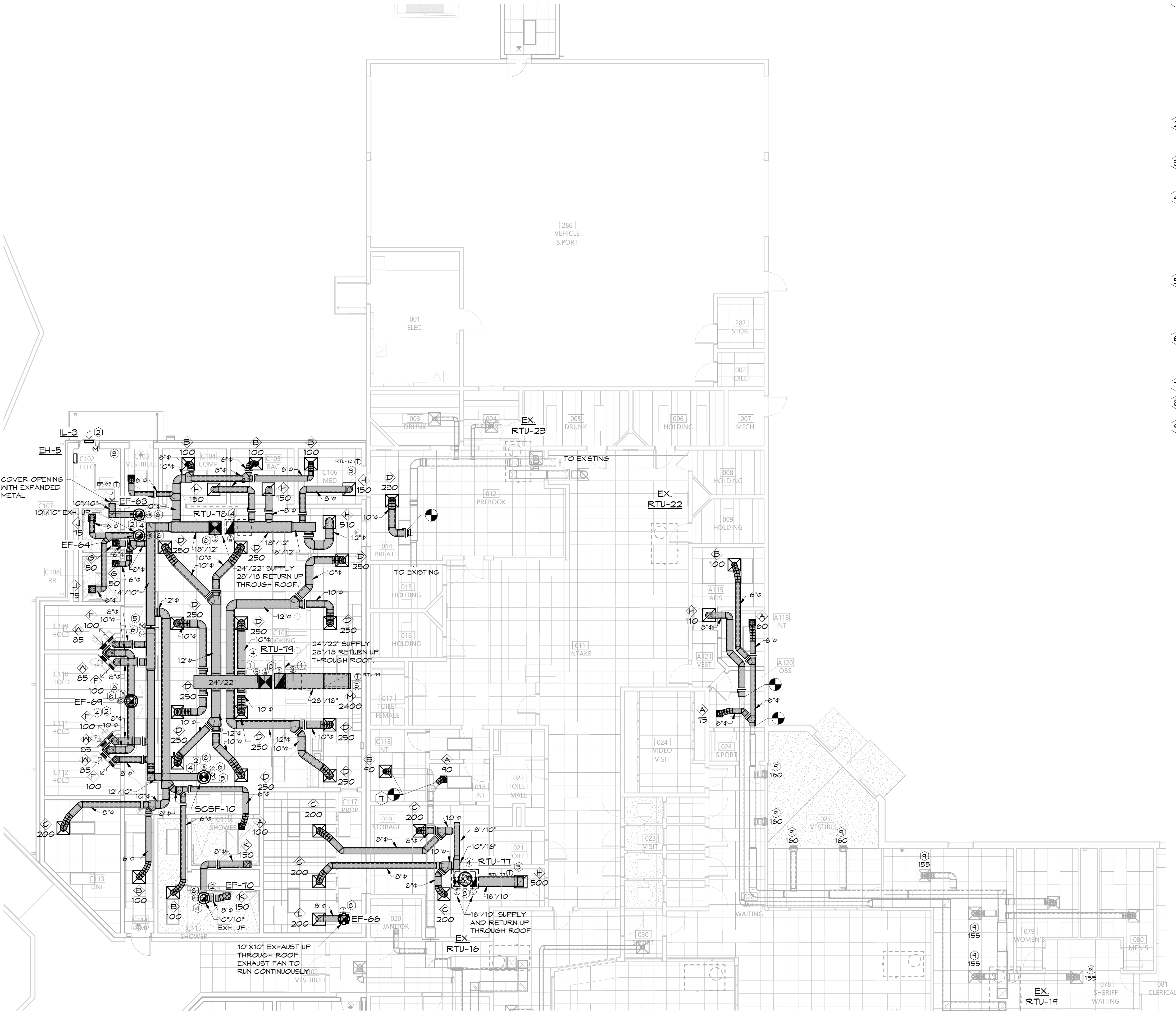
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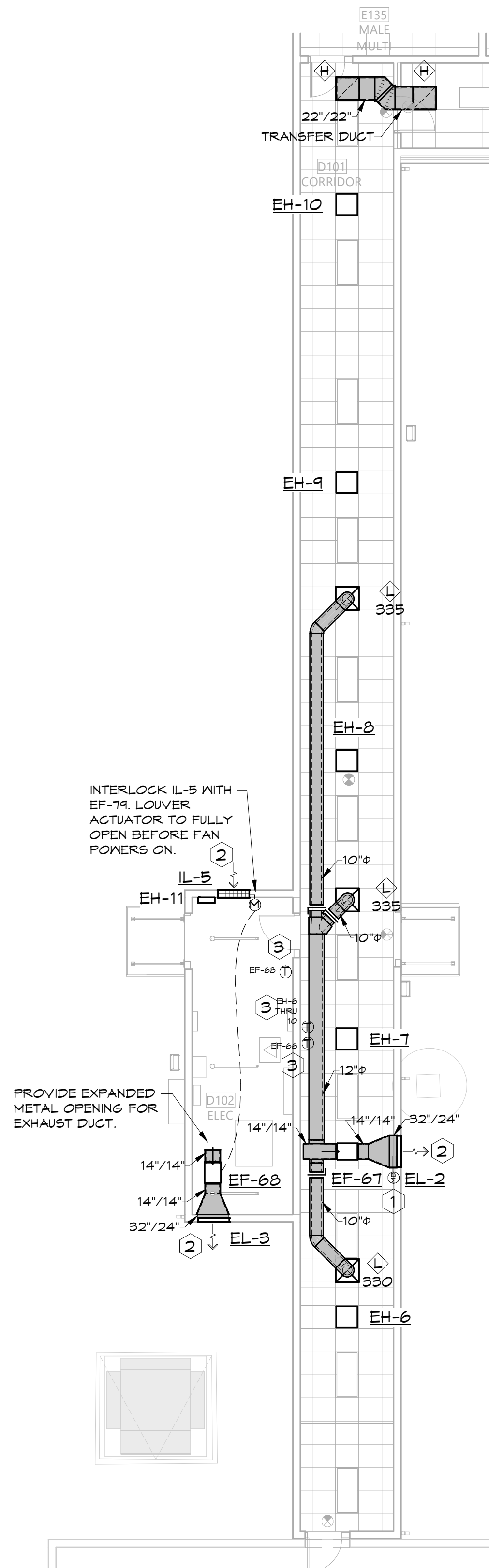
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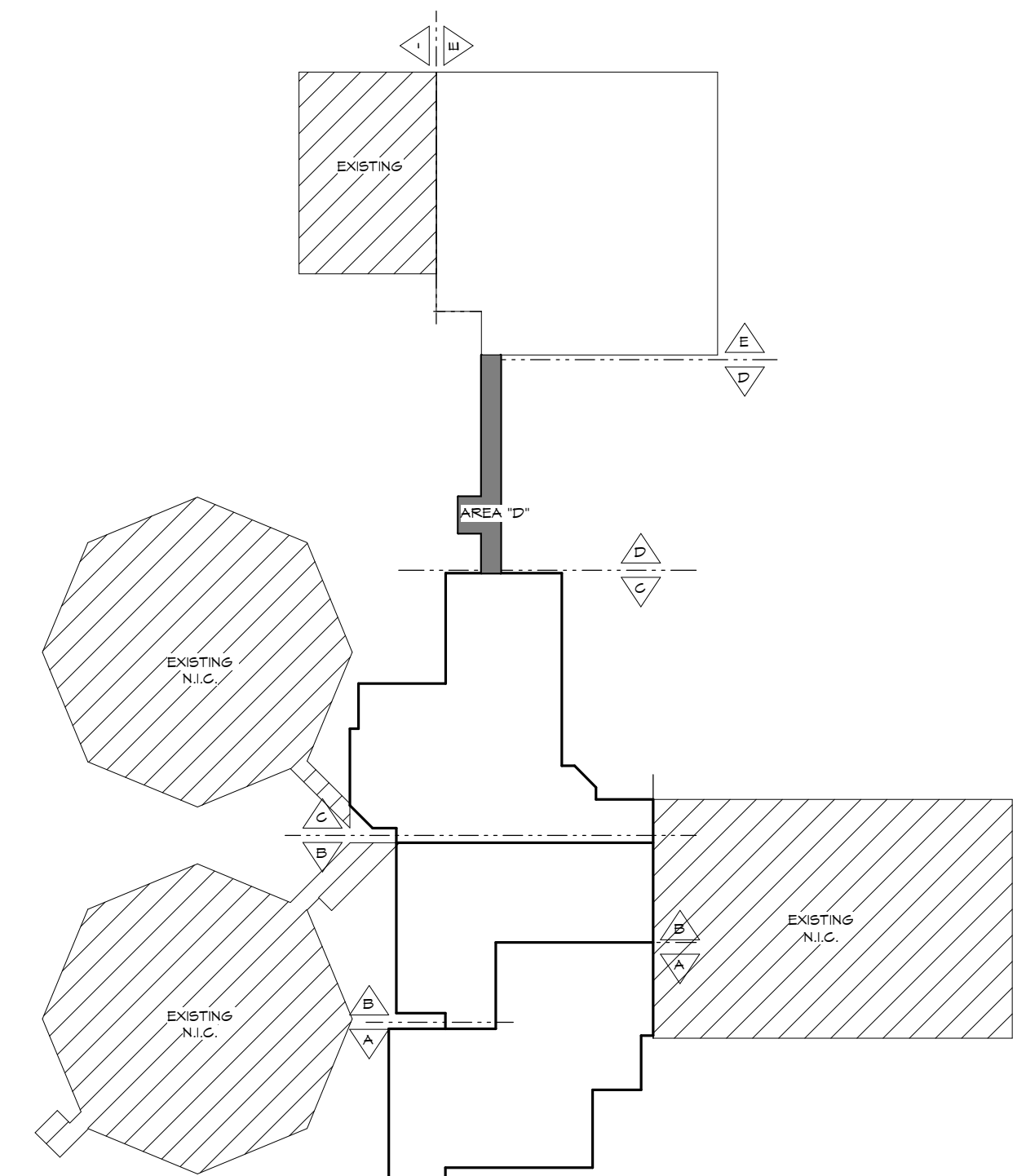
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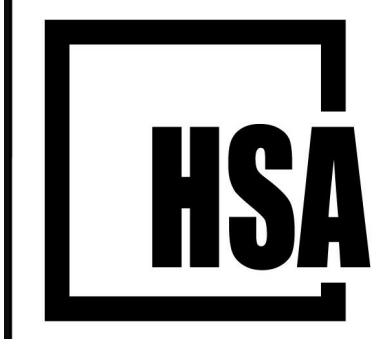


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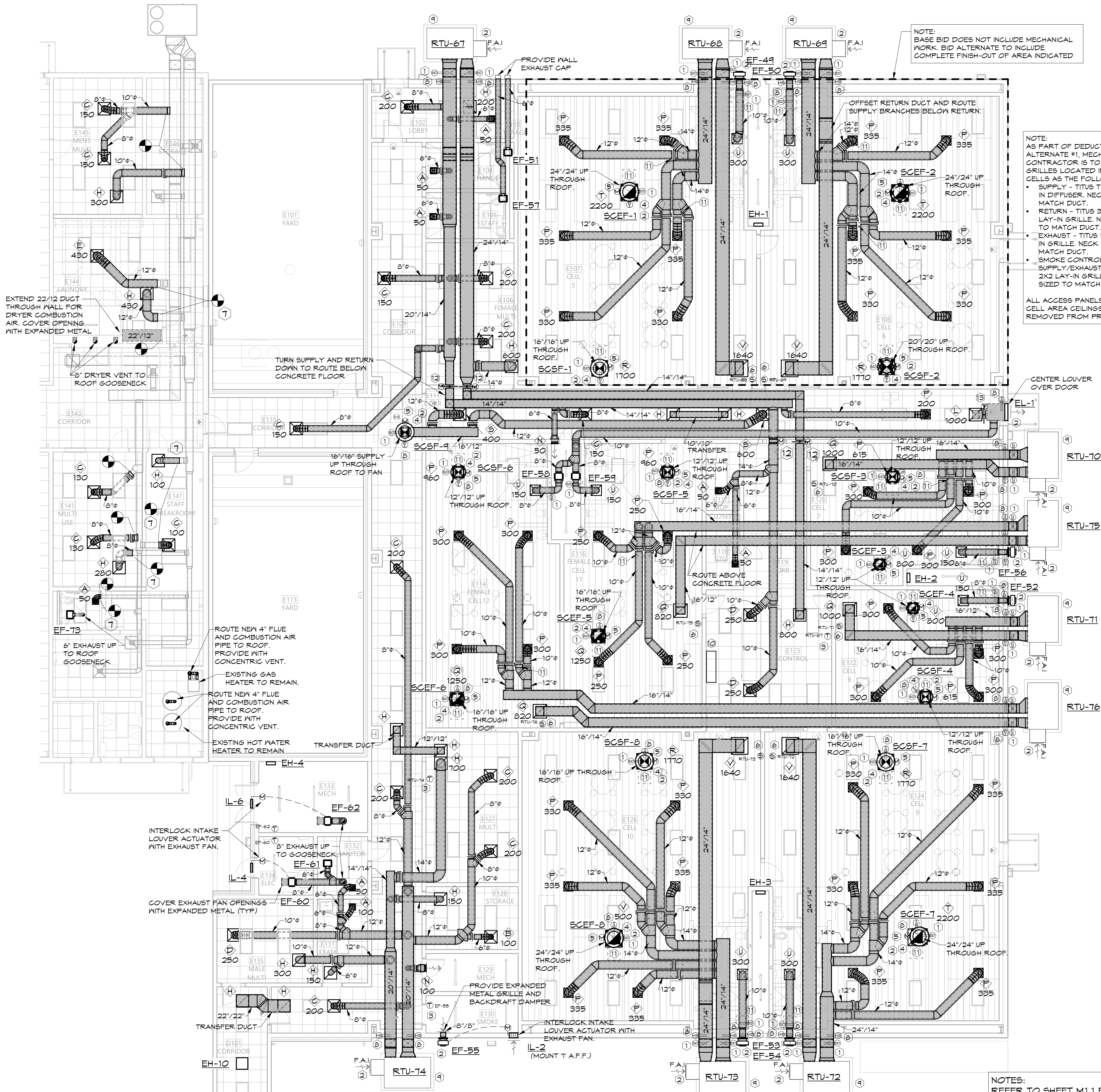
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- LOCATE REMOTE TEMPERATURE SENSOR AS INDICATED WITH THE CENTER OF THE THERMOSTAT AT 10'-0" ABOVE FINISHED FLOOR. SEAL ALL THERMOSTAT CONDUITS AT TOP AND BOTTOM OF CONDUIT. PROVIDE INSULATED BACKING FOR MOUNTING SENSOR.
- CONNECT DUCT TO EXISTING BRANCH. SIZE TO MATCH EXISTING.
- DUCT PENETRATION TO HAVE MANBARS. REFER TO DETAILS 5 THROUGH 7 FOR MORE INFORMATION.
- REFER TO ARCHITECTURAL DRAWINGS FOR RTU CONCRETE PAD DIMENSIONS.
- LOCATION OF NEW FIREMAN SMOKE CONTROL PANEL FOR ZONES 1 THRU 9 HOA SWITCHES AND ALARMS. PROVIDED BY FIRE ALARM CONTRACTOR.
- PROVIDE 2FT X 2FT SECURITY ACCESS PANEL. COORDINATE LOCATION OF PANEL WITH MECHANICAL CONTRACTOR TO GIVE ACCESS TO DAMPERS AND OTHER MECHANICAL DEVICES ABOVE SECURITY PANEL CEILING.
- MECHANICAL CONTRACTOR TO PROVIDE SMOKE DAMPER EQUAL TO RUSKIN SD60 WITH 120V ACTUATOR EQUAL TO BELIMO AF-120 WITH END SWITCH. DAMPER TO BE NORMALLY OPEN AND FAIL CLOSED. ELECTRICAL CONTRACTOR TO PROVIDE POWER. REFER TO ELECTRICAL PLANS FOR WIRING.
- PROVIDE MOTORIZED DAMPER INTERLOCKED WITH SCSF-1. DAMPER TO BE NORMALLY CLOSED AND FAIL OPEN. BALANCE MOTORIZED RELIEF OPEN POSITION TO PROVIDE POSITIVE PRESSURE IN ZONE WHILE MAINTAINING AN ACCEPTABLE DOOR OPENING FORCE.

NOTE:
AS PART OF DEDUCTIVE ALTERNATE #1, MECHANICAL CONTRACTOR IS TO PRICE ALL GRILLES LOCATED IN HOLDING CELLS AS THE FOLLOWING:
• SUPPLY - TITUS TMS 2X2 LAY-IN DIFFUSER, NECK SIZED TO MATCH DUCT.
• RETURN - TITUS 355RL 2X4 LAY-IN GRILLE, NECK SIZED TO MATCH DUCT.
• EXHAUST - TITUS 50F 2X2 LAY-IN GRILLE, NECK SIZED TO MATCH DUCT.
• SMOKE CONTROL SUPPLY/EXHAUST - TITUS 50F 2X2 LAY-IN GRILLE, NECK SIZED TO MATCH DUCT.
ALL ACCESS PANELS IN HOLDING CELL AREA CEILINGS CAN BE REMOVED FROM PRICING.

NOTE:
BASE BID DOES NOT INCLUDE MECHANICAL WORK. BID ALTERNATE TO INCLUDE COMPLETE FINISH-OUT OF AREA INDICATED



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HVAC DETAILS

S M E E T

M3.1

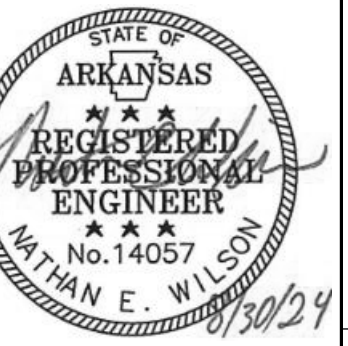
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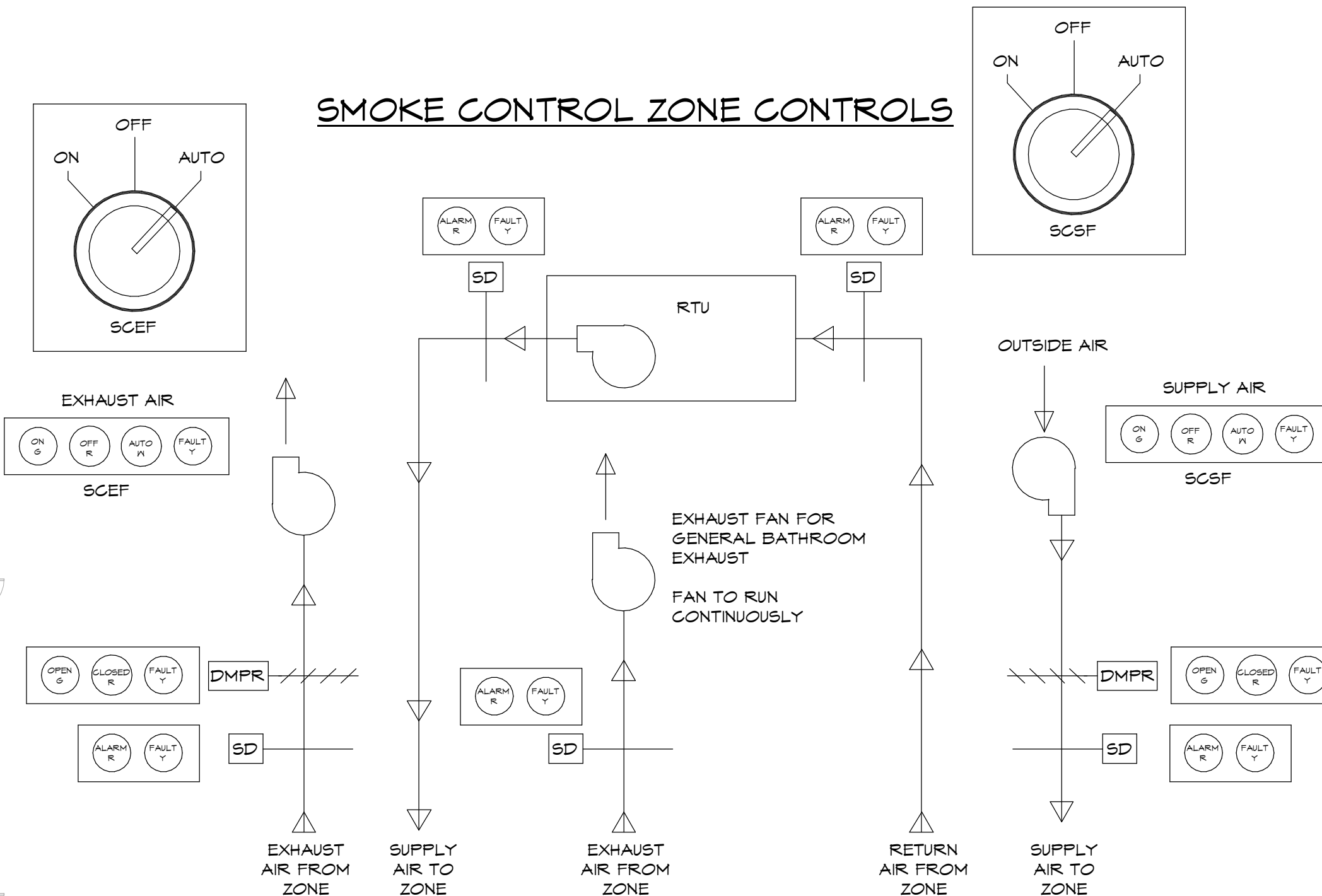


SMOKE CONTROL DESIGN

DESIGN ELEMENTS

- A. SYSTEM DESIGN OBJECTIVE: CONTAIN SMOKE TO THE ZONE OF FIRE ORIGIN
- B. DESIGN APPROACH: PRESSURIZED SMOKE CONTROL
- C. DESIGN ASSUMPTIONS: BUILDING HEIGHT - 18' FT.
AMBIENT CONDITIONS - ASHRAE - WASHINGTON COUNTY AR
NET SPRINKLER SYSTEM INSTALLED
NEW CONSTRUCTION LEAKAGE: LESS THAN 0.1 CFM/SF
- D. LOCATION OF SMOKE ZONES:
- ZONE 1
 - ZONE 2
 - ZONE 3
 - ZONE 4
 - ZONE 5
 - ZONE 6
 - ZONE 7
 - ZONE 8
 - ZONE 9
- E. MINIMUM DESIGN PRESSURE DIFFERENCE: -0.05" WG WITHIN SMOKE ZONE
MAXIMUM DESIGN PRESSURE DIFFERENCE: -0.08" WG WITHIN SMOKE ZONE
(TO PROVIDE A MAXIMUM DOOR OPENING FORCE OF 5 LBS.)
- F. BUILDING USE LIMITATIONS: DETENTION FACILITY (I-3)
- G. DESIGN CALCULATIONS:
EXHAUST 6 AIR CHANGES/HOUR IN SMOKE ZONE TO REMOVE SMOKE
AND SUPPLY 80% OUTSIDE AIR TO DILUTE SMOKE AND ALLOW FOR NEGATIVE
PRESSURIZATION OF SMOKE ZONE
- H. FAN AND DUCT SPECIFICATIONS: SEE FAN SCHEDULE, DRAWING NOTES, AND PROJECT
MANUAL.
- I. DAMPER SPECIFICATIONS: PROVIDE AIR FOIL MOTORIZED SMOKE DAMPERS WITH END
SWITCHES TO ISOLATE AIR SYSTEMS.
- J. SEQUENCE OF OPERATIONS: REFER TO M3.5 FOR ZONED SMOKE CONTROL SEQUENCE OF OPERATIONS

SMOKE CONTROL ZONE CONTROLS



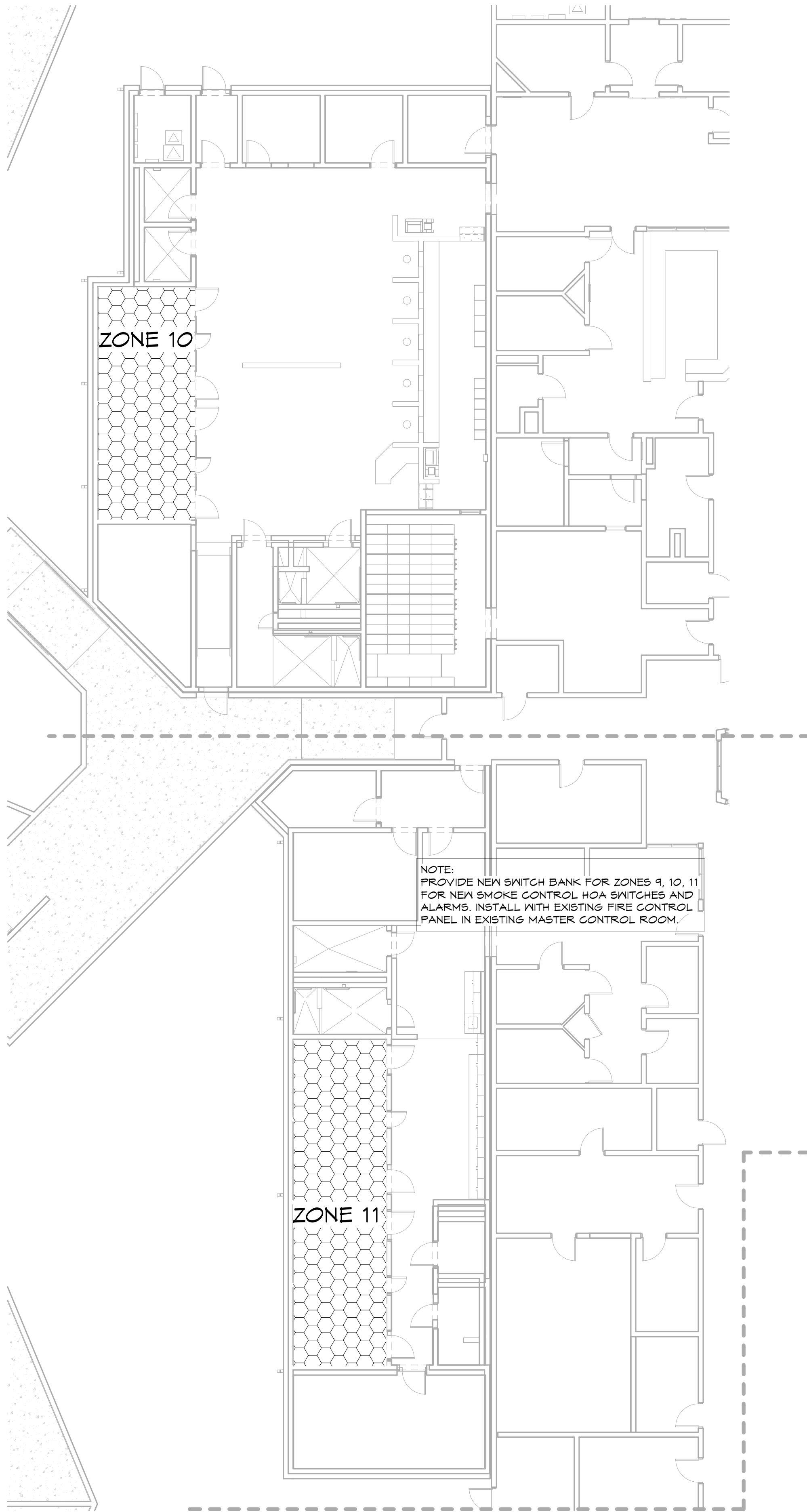
EACH SMOKE CONTROL ZONE IDENTIFIED ON THIS SHEET HAVE THE FOLLOWING EQUIPMENT THAT IS CONTROLLED INDEPENDENT OF EACH ZONE:

- SINGLE ZONE PACKAGED UNIT
- GENERAL EXHAUST FAN
- SMOKE CONTROL EXHAUST FAN
- SMOKE CONTROL SUPPLY FAN

SMOKE MANAGEMENT OPERATION MATRIX																			
	EQUIP TAG	SMOKE DETECTION IN ZONE #1		SMOKE DETECTION IN ZONE #2		SMOKE DETECTION IN ZONE #3		SMOKE DETECTION IN ZONE #4		SMOKE DETECTION IN ZONE #5		SMOKE DETECTION IN ZONE #6		SMOKE DETECTION IN ZONE #7		SMOKE DETECTION IN ZONE #8		SMOKE DETECTION IN ZONE #9	
		OPERATION MODE	STATUS	OPERATION MODE	STATUS	OPERATION MODE	STATUS	OPERATION MODE	STATUS	OPERATION MODE	STATUS	OPERATION MODE	STATUS	OPERATION MODE	STATUS	OPERATION MODE	STATUS	OPERATION MODE	STATUS
ZONE 1	RTU	FZ	OFF	ADJ	ON													ADJ	ON
	EF (S)	FZ	ON	ADJ	OFF	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	OFF
	EF (S)	FZ	OFF	ADJ	ON													ADJ	ON
	RTU	ADJ	ON	FZ	OFF													ADJ	ON
	EF (S)	ADJ	OFF	FZ	ON	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	OFF
ZONE 2	RTU					FZ	OFF											ADJ	ON
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		FZ	ON	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	OFF
	EF (S)					FZ	OFF											ADJ	ON
	RTU							FZ	OFF	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	OFF
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		FZ	ON					NORMAL OPERATION		NORMAL OPERATION		ADJ	ON
ZONE 3	RTU									FZ	OFF							ADJ	ON
	EF (S)									FZ	ON							ADJ	OFF
	EF (S)									FZ	OFF							ADJ	ON
	RTU											FZ	OFF	ADJ	ON			ADJ	ON
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		FZ	ON	ADJ	OFF	NORMAL OPERATION		NORMAL OPERATION		ADJ	OFF
ZONE 4	RTU											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	EF (S)											FZ	OFF	ADJ	ON			ADJ	ON
	RTU											FZ	OFF	ADJ	ON			ADJ	ON
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		FZ	ON	ADJ	OFF	NORMAL OPERATION		NORMAL OPERATION		ADJ	OFF
ZONE 5	RTU											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	EF (S)											FZ	OFF	ADJ	ON			ADJ	ON
	RTU											ADJ	ON					ADJ	ON
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	ON	FZ	OFF			NORMAL OPERATION		ADJ	ON
ZONE 6	RTU											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	RTU											ADJ	ON					ADJ	ON
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	ON	FZ	OFF			NORMAL OPERATION		ADJ	ON
ZONE 7	RTU											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	RTU											ADJ	ON					ADJ	ON
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	ON	FZ	OFF			NORMAL OPERATION		ADJ	ON
ZONE 8	RTU											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	RTU											ADJ	ON					ADJ	ON
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	ON	FZ	OFF			NORMAL OPERATION		ADJ	ON
ZONE 9	RTU											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	RTU											ADJ	ON					ADJ	ON
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	ON	FZ	OFF			NORMAL OPERATION		ADJ	ON
ZONE 10	RTU											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	RTU											ADJ	ON					ADJ	ON
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	ON	FZ	OFF			NORMAL OPERATION		ADJ	ON
ZONE 11	RTU											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	RTU											ADJ	ON					ADJ	ON
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	ON	FZ	OFF			NORMAL OPERATION		ADJ	ON
ZONE 12	RTU											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	RTU											ADJ	ON					ADJ	ON
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	ON	FZ	OFF			NORMAL OPERATION		ADJ	ON
ZONE 13	RTU											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	RTU											ADJ	ON					ADJ	ON
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	ON	FZ	OFF			NORMAL OPERATION		ADJ	ON
ZONE 14	RTU											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	RTU											ADJ	ON					ADJ	ON
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	ON	FZ	OFF			NORMAL OPERATION		ADJ	ON
ZONE 15	RTU											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	RTU											ADJ	ON					ADJ	ON
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	ON	FZ	OFF			NORMAL OPERATION		ADJ	ON
ZONE 16	RTU											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	RTU											ADJ	ON					ADJ	ON
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	ON	FZ	OFF			NORMAL OPERATION		ADJ	ON
ZONE 17	RTU											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	RTU											ADJ	ON					ADJ	ON
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	ON	FZ	OFF			NORMAL OPERATION		ADJ	ON
ZONE 18	RTU											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	RTU											ADJ	ON					ADJ	ON
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	ON	FZ	OFF			NORMAL OPERATION		ADJ	ON
ZONE 19	RTU											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	RTU											ADJ	ON					ADJ	ON
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	ON	FZ	OFF			NORMAL OPERATION		ADJ	ON
ZONE 20	RTU											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	RTU											ADJ	ON					ADJ	ON
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	ON	FZ	OFF			NORMAL OPERATION		ADJ	ON
ZONE 21	RTU											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	RTU											ADJ	ON					ADJ	ON
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	ON	FZ	OFF			NORMAL OPERATION		ADJ	ON
ZONE 22	RTU											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	RTU											ADJ	ON					ADJ	ON
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	ON	FZ	OFF			NORMAL OPERATION		ADJ	ON
ZONE 23	RTU											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	RTU											ADJ	ON					ADJ	ON
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	ON	FZ	OFF			NORMAL OPERATION		ADJ	ON
ZONE 24	RTU											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	EF (S)											ADJ	ON					ADJ	ON
	RTU											ADJ	ON					ADJ	ON
	EF (S)	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	ON	FZ	OFF			NORMAL OPERATION		ADJ	ON

1 SMOKE CONTROL ZONES - AREA E

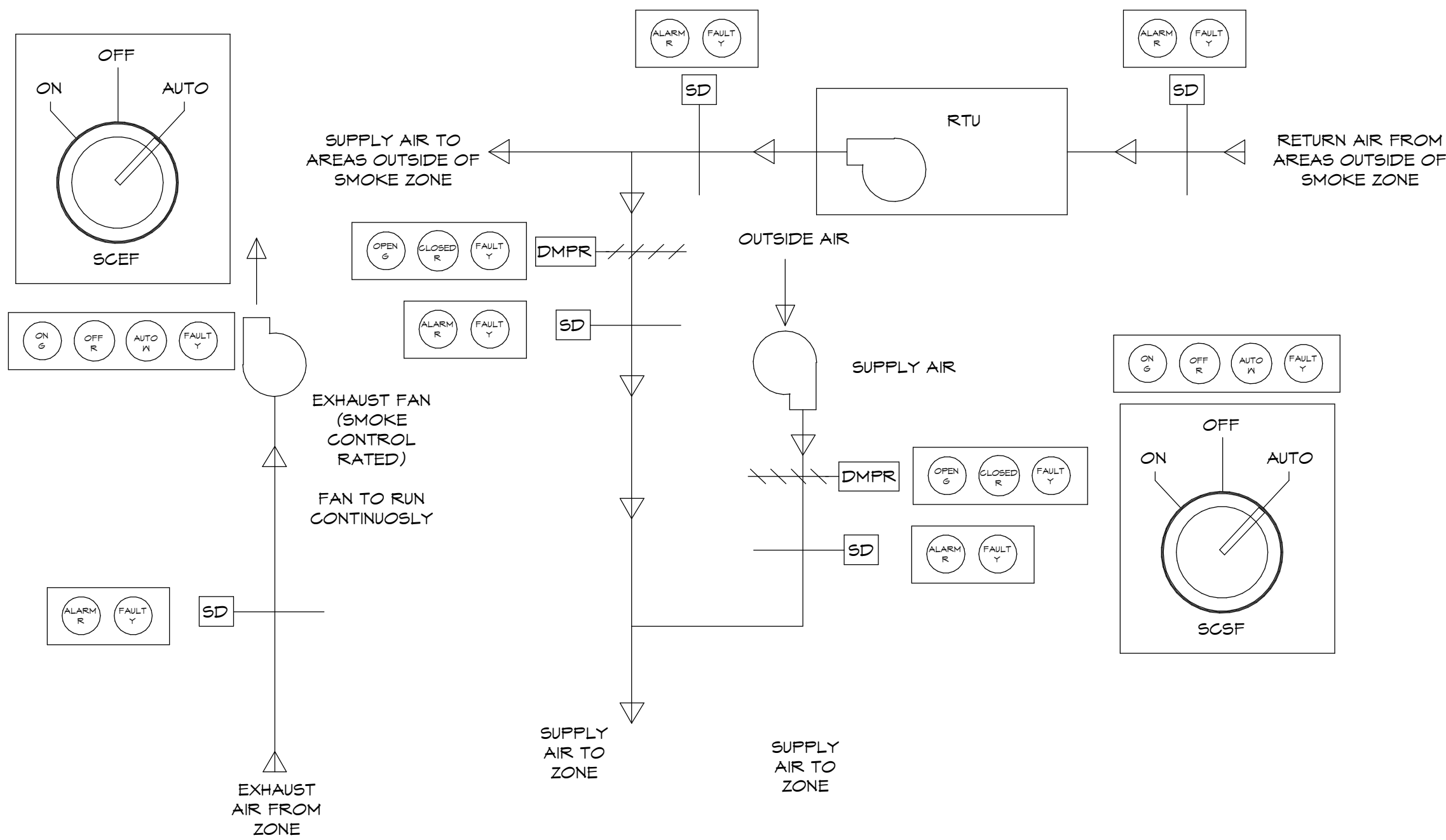
1" = 10'-0"



1 SMOKE CONTROL ZONES - AREAS B, C
1" = 10'-0"

NOTE:
PROVIDE NEW SWITCH BANK FOR ZONES 9, 10, 11
FOR NEW SMOKE CONTROL HOA SWITCHES AND
ALARMS. INSTALL WITH EXISTING FIRE CONTROL
PANEL IN EXISTING MASTER CONTROL ROOM.

SMOKE CONTROL ZONE CONTROLS



EACH SMOKE CONTROL ZONE IDENTIFIED ON THIS SHEET HAVE THE FOLLOWING EQUIPMENT THAT IS
CONTROLLED INDEPENDENT OF EACH ZONE:

- MULTI-ZONE PACKAGED UNIT WITH SMOKE DAMPERS ISOLATING SMOKE ZONES.
- GENERAL EXHAUST FAN THAT IS SMOKE CONTROL RATED AND OPERATES CONTINUOUSLY
- SMOKE CONTROL SUPPLY FAN

SMOKE CONTROL DESIGN

DESIGN ELEMENTS

- A. SYSTEM DESIGN OBJECTIVE: CONTAIN SMOKE TO THE ZONE OF FIRE ORIGIN
- B. DESIGN APPROACH: PRESSURIZED SMOKE CONTROL
- C. DESIGN ASSUMPTIONS: BUILDING HEIGHT - 18' FT.
AMBIENT CONDITIONS - ASHRAE - WASHINGTON COUNTY AR
NET SPRINKLER SYSTEM INSTALLED
NEW CONSTRUCTION LEAKAGE: LESS THAN 0.1 CFM/SF
- D. LOCATION OF SMOKE ZONES:
- ZONE 10
 - ZONE 12
- E. MINIMUM DESIGN PRESSURE DIFFERENCE: -0.05" WG WITHIN SMOKE ZONE
MAXIMUM DESIGN PRESSURE DIFFERENCE: -0.08" WG WITHIN SMOKE ZONE
(TO PROVIDE A MAXIMUM DOOR OPENING FORCE OF 5 LBS.)
- F. BUILDING USE LIMITATIONS: DETENTION FACILITY (1-3)
- G. DESIGN CALCULATIONS:
EXHAUST 6 AIR CHANGES/HOUR IN SMOKE ZONE TO REMOVE SMOKE
AND SUPPLY 80% OUTSIDE AIR TO DILUTE SMOKE AND ALLOW FOR NEGATIVE
PRESSURIZATION OF SMOKE ZONE
- H. FAN AND DUCT SPECIFICATIONS: SEE FAN SCHEDULE, DRAWING NOTES, AND PROJECT
MANUAL.
- I. DAMPER SPECIFICATIONS: PROVIDE AIR FOIL MOTORIZED SMOKE DAMPERS WITH END
SWITCHES TO ISOLATE AIR SYSTEMS.
- J. SEQUENCE OF OPERATIONS: REFER TO M3.5 FOR ZONED SMOKE CONTROL SEQUENCE OF OPERATIONS



Hight Jackson
ASSOCIATES
5201 W Village Parkway, Suite 3001 Rogers, Arkansas 72768 | (479) 464-4965 | www.hjarch.com

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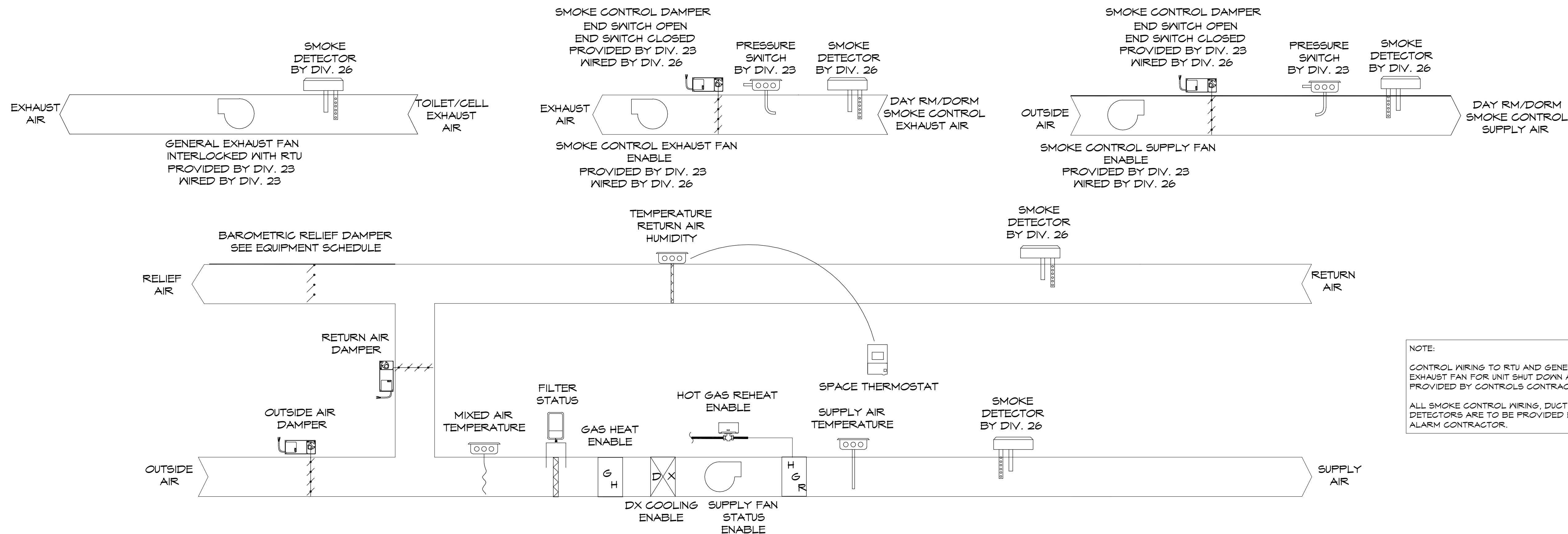
HSAEngineering

479 / 452 / 8922 office

7405 Ellis St.

Fort Smith, AR 72916

HSAConsultants.com



RTU CONSTANT SPEED FAN - CONTROL SCHEMATIC

SMOKE CONTROL/FIREMAN'S OVERRIDE PANEL SEQUENCE OF OPERATION:

THIS CONTROL SEQUENCE SHALL BE PROVIDED BY SMOKE CONTROL SYSTEM CONTRACTOR. COORDINATE ALL WORK WITH CONTROL (WHERE APPLICABLE), ELECTRICAL, FIRE ALARM, AND TEST AND BALANCE CONTRACTORS AND MECHANICAL AND ELECTRICAL EQUIPMENT VENDORS FOR A FULLY FUNCTIONAL CONTROL SYSTEM.

SMOKE CONTROL FANS SHALL BE CONTROLLED EITHER AUTOMATICALLY OR MANUALLY FROM THE SMOKE CONTROL / FIREMAN'S OVERRIDE PANEL LOCATED IN THE GUARDS CONTROL ROOM. THERE ARE MULTIPLE SMOKE CONTROL ZONES THAT OPERATE INDEPENDENTLY FROM EACH OTHER. REFER TO SHEET M3.2, M3.3 FOR SMOKE CONTROL ZONE LAYOUTS. THE FOLLOWING SEQUENCE IS TYPICAL FOR SMOKE ZONES 1 THRU 8.

THE MECHANICAL CONTRACTOR WILL PROVIDE DIFFERENTIAL PRESSURE SWITCH IN THE SMOKE CONTROL SUPPLY AND EXHAUST AIR DUCTS LOCATED BETWEEN THE AIR INLETS / OUTLETS AND SMOKE CONTROL DAMPERS TO PROVE SCSEF AND SCEF OPERATION.

THERE WILL BE A TWO HAND-OFF-AUTOMATIC SWITCH FOR EACH ZONE ON THE FACE OF THE SMOKE CONTROL / FIREMAN'S OVERRIDE PANEL PROVIDED FOR INDIVIDUAL CONTROL OF THE SMOKE CONTROL SUPPLY AND EXHAUST FAN IN EACH ZONE.

THERE WILL BE INDICATOR LIGHTS ON THE FACE OF THE SMOKE CONTROL / FIREMAN'S OVERRIDE PANEL TO INDICATE EQUIPMENT STATUS, E.G. SMOKE CONTROL FANS ON, OFF, AUTO, OR FAULT, AND SMOKE CONTROL DAMPERS OPEN, CLOSED, OR FAULT. ANNUNCIATE A FAULT CONDITION IF SMOKE CONTROL FAN STATUS OR IF ANY SMOKE CONTROL DAMPER END SWITCH DOES NOT MATCH ITS COMMANDED STATE. PROVIDE INDICATOR LAMP TEST SWITCH TO TEST CONDITION OF INDICATOR LAMPS.

NORMAL OPERATION: SCSEF AND SCEF HAND-OFF-AUTO SWITCH IN 'AUTO' POSITION:

THE FIRE ALARM SYSTEM UPON DETECTION OF SMOKE IN THE SMOKE ZONE, E.G. DUCT SMOKE DETECTOR GOES INTO ALARM IN AN EXHAUST OR RETURN DUCT THAT SERVES THE SMOKE ZONE, OR ACTIVATION OF MANUAL PULL STATION IN THE SMOKE ZONE, SHALL SIGNAL THE SMOKE CONTROL SYSTEM. THE SMOKE CONTROL SYSTEM WILL OPEN THE SMOKE CONTROL DAMPERS ASSOCIATED WITH SCEF AND SCSEF. WHEN THE SMOKE CONTROL DAMPERS ASSOCIATED WITH SCEF AND SCSEF ARE FULLY OPEN AND PROVED THROUGH THEIR END SWITCHES

THE END SWITCH WILL START THE ASSOCIATED FAN. AT THE SAME TIME, THE RTU AND GENERAL EXHAUST FAN ARE SHUT DOWN. AFTER THE SCSEF DAMPER IS OPENED, IF SMOKE IS DETECTED IN ITS SUPPLY DUCT, INDICATING SMOKE OR FIRE FROM OUTSIDE, THE SCSEF AND SCEF SHALL SHUT DOWN. IF SMOKE IS DETECTED IN THE EXHAUST / RETURN AIR DUCT, THE SCEF SHALL CONTINUE TO OPERATE. IF THERE IS A FAILURE OF THE SCEF, E.G. SMOKE CONTROL DAMPER FAILS TO OPEN, SMOKE CONTROL FAN FAILS TO START, ETC., AS PROVED THROUGH SMOKE CONTROL DAMPER END SWITCH OR EXHAUST DDUCT DIFFERENTIAL PRESSURE SWITCH, SHUT DOWN THE SCSEF.

THE GENERAL EXHAUST FANS IN THE SMOKE CONTROL ZONES SHALL BE INTERLOCKED WITH RTU. WHEN RTU IS SHUT DOWN, GENERAL EXHAUST FAN IS TO BE SHUT DOWN.

WHEN THE FIRE CONDITION IS CLEARED, THE FIRE ALARM SYSTEM SHALL SIGNAL THE SMOKE CONTROL SYSTEM WHICH WILL CLOSE THE SMOKE CONTROL DAMPERS ASSOCIATED WITH SCEF AND SCSEF. WHEN THE SMOKE CONTROL DAMPERS ASSOCIATED WITH SCEF AND SCSEF BEGIN TO CLOSE AS PROVED THROUGH THEIR END SWITCHES THE END SWITCH WILL SHUT DOWN THE ASSOCIATED FANS. AT THE SAME TIME, THE RTU IS STARTED.

IF THE SMOKE CONTROL EXHAUST OR SUPPLY FAN HAND-OFF-AUTO SWITCH IS SWITCHED FROM THE AUTO POSITION, THE ASSOCIATED RTU IS OVERRIDDEN OFF.

FIREMAN'S OVERRIDE CONDITIONS:

SCSEF IS OVERRIDDEN OFF, HAND-OFF-AUTO SWITCH IS IN 'OFF' POSITION

SCSEF SMOKE CONTROL DAMPERS ARE DRIVEN CLOSED AND SCSEF SHALL BE OVERRIDDEN OFF. SMOKE CONTROL DAMPER END SWITCH CONTROL OF THE SCSEF IS OVERRIDDEN. THE SCEF WILL CONTINUE TO OPERATE PER THE NORMAL CONTROL SEQUENCE.

SCSEF IS OVERRIDDEN ON, HAND-OFF-AUTO SWITCH IS IN THE 'ON' POSITION.

SCSEF SMOKE CONTROL DAMPERS ARE DRIVEN OPEN AND SCSEF IS OVERRIDDEN ON. SMOKE CONTROL DAMPER END SWITCH CONTROL OF THE SCSEF IS OVERRIDDEN. THE SCEF WILL CONTINUE TO OPERATE PER THE NORMAL CONTROL SEQUENCE.

SCEF IS OVERRIDDEN OFF, HAND-OFF-AUTO SWITCH IS IN 'OFF' POSITION.

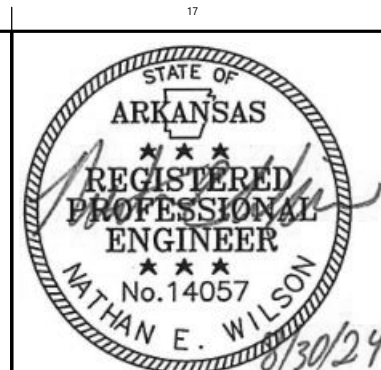
SCEF SMOKE CONTROL DAMPERS ARE DRIVEN CLOSED AND SCEF SHALL BE OVERRIDDEN OFF. SMOKE CONTROL DAMPER END SWITCH CONTROL OF THE SCEF IS OVERRIDDEN.

SCEF IS OVERRIDDEN ON, HAND-OFF-AUTO SWITCH IS IN THE 'ON' POSITION.

SCEF SMOKE CONTROL DAMPERS ARE DRIVEN OPEN AND SCEF IS OVERRIDDEN ON. SMOKE CONTROL DAMPER END SWITCH CONTROL OF THE SCEF IS OVERRIDDEN.

HSA

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com



Hight Jackson
ASSOCIATES
5201 W Village Parkway, Suite 3001 Rogers, Arkansas 72781 (479) 464-4965 | www.hjarch.com

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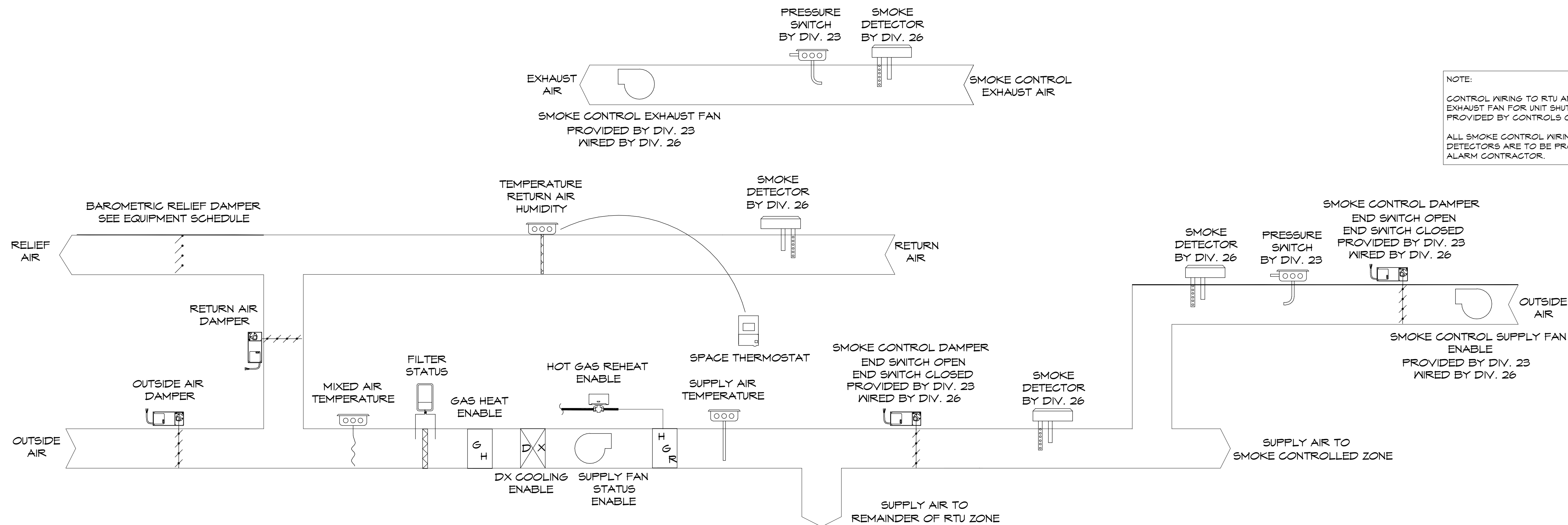
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NOTE:
CONTROL WIRING TO RTU AND GENERAL EXHAUST FAN FOR UNIT SHUT DOWN ARE PROVIDED BY CONTROLS CONTRACTOR.
ALL SMOKE CONTROL WIRING, DUCT DETECTORS ARE TO BE PROVIDED BY FIRE ALARM CONTRACTOR.



RTU CONSTANT SPEED FAN - CONTROL SCHEMATIC

SMOKE CONTROL/FIREMAN'S OVERRIDE PANEL SEQUENCE OF OPERATION:

THIS CONTROL SEQUENCE SHALL BE PROVIDED BY SMOKE CONTROL SYSTEM CONTRACTOR. COORDINATE ALL WORK WITH CONTROL (WHERE APPLICABLE), ELECTRICAL, FIRE ALARM, AND TEST AND BALANCE CONTRACTORS AND MECHANICAL AND ELECTRICAL EQUIPMENT VENDORS FOR A FULLY FUNCTIONAL CONTROL SYSTEM.

SMOKE CONTROL FANS SHALL BE CONTROLLED EITHER AUTOMATICALLY OR MANUALLY FROM THE SMOKE CONTROL / FIREMAN'S OVERRIDE PANEL LOCATED IN THE GUARDS CONTROL ROOM. THERE ARE MULTIPLE SMOKE CONTROL ZONES THAT OPERATE INDEPENDENTLY FROM EACH OTHER. REFER TO SHEET M3.3 FOR SMOKE CONTROL ZONE LAYOUTS. THE FOLLOWING SEQUENCE IS FOR SMOKE ZONE 10 AND 11.

THE MECHANICAL CONTRACTOR WILL PROVIDE DIFFERENTIAL PRESSURE SWITCH IN THE SMOKE CONTROL SUPPLY AND EXHAUST AIR DUCTS LOCATED BETWEEN THE AIR INLETS / OUTLETS AND SMOKE CONTROL DAMPERS TO PROVE EF AND SCSF OPERATION.

THERE WILL BE A TWO HAND-OFF-AUTOMATIC SWITCHES FOR EACH ZONE ON THE FACE OF THE SMOKE CONTROL / FIREMAN'S OVERRIDE PANEL PROVIDED FOR INDIVIDUAL CONTROL OF THE SMOKE CONTROL EXHAUST AND SUPPLY FAN IN EACH ZONE.

THERE WILL BE INDICATOR LIGHTS ON THE FACE OF THE SMOKE CONTROL / FIREMAN'S OVERRIDE PANEL TO INDICATE EQUIPMENT STATUS, E.G. SMOKE CONTROL FANS ON, OFF, AUTO, OR FAULT, AND SMOKE CONTROL DAMPERS OPEN, CLOSED, OR FAULT. ANNUNCIATE A FAULT CONDITION IF SMOKE CONTROL FAN STATUS OR IF ANY SMOKE CONTROL DAMPER END SWITCH DOES NOT MATCH ITS COMMANDED STATE. PROVIDE INDICATOR LAMP TEST SWITCH TO TEST CONDITION OF INDICATOR LAMPS.

NORMAL OPERATION: THE EF AND SCSF HAND-OFF-AUTO SWITCH IN 'AUTO' POSITION:

THE EXHAUST FAN IS TO RUN CONTINUOUSLY. THE FIRE ALARM SYSTEM UPON DETECTION OF SMOKE IN THE SMOKE ZONE, E.G. DUCT SMOKE DETECTOR GOES INTO ALARM IN THE EXHAUST THAT SERVES THE SMOKE ZONE, OR ACTIVATION OF MANUAL PULL STATION IN THE SMOKE ZONE, SHALL SIGNAL THE SMOKE CONTROL SYSTEM. THE SMOKE CONTROL SYSTEM WILL OPEN THE SMOKE CONTROL DAMPERS ASSOCIATED WITH THE SCSF AND CLOSE THE SMOKE CONTROL DAMPERS ASSOCIATED WITH THE RTU. WHEN THE SMOKE CONTROL DAMPERS ASSOCIATED WITH SCSF ARE FULLY OPEN AND PROVED THROUGH THEIR END SWITCHES THE END SWITCH WILL START THE ASSOCIATED FAN. AT THE SAME TIME, THE SMOKE CONTROL DAMPERS ASSOCIATED WITH RTU ARE CLOSING AND PROVED THROUGH END SWITCHES. IF EITHER END SWITCH OPENS, THE RTU IS SHUT DOWN. AFTER THE SCSF DAMPER IS OPENED, IF SMOKE IS DETECTED IN ITS SUPPLY DUCT, INDICATING SMOKE OR FIRE FROM OUTSIDE, THE SCSF SHALL SHUT DOWN. IF THERE IS A FAILURE OF THE EF, E.G. SMOKE CONTROL FAN FAILS TO START, ETC., AS PROVED THROUGH EXHAUST DUCT DIFFERENTIAL PRESSURE SWITCH, SHUT DOWN THE SCSF.

WHEN THE FIRE CONDITION IS CLEARED, THE FIRE ALARM SYSTEM SHALL SIGNAL THE SMOKE CONTROL SYSTEM WHICH WILL CLOSE THE SMOKE CONTROL DAMPERS ASSOCIATED WITH SCSF. WHEN THE SMOKE CONTROL DAMPERS ASSOCIATED WITH SCSF BEGIN TO CLOSE AS PROVED THROUGH THEIR END SWITCHES THE END SWITCH WILL SHUT DOWN THE ASSOCIATED FANS. AT THE SAME TIME, THE RTU IS STARTED IF SHUT DOWN.

FIREMAN'S OVERRIDE CONDITIONS:

SCSF IS OVERRIDDEN OFF, HAND-OFF-AUTO SWITCH IS IN 'OFF' POSITION

SCSF SMOKE CONTROL DAMPERS ARE DRIVEN CLOSED AND SCSF SHALL BE OVERRIDDEN OFF. SMOKE CONTROL DAMPER END SWITCH CONTROL OF THE SCSF IS OVERRIDDEN. THE EF WILL CONTINUE TO OPERATE PER THE NORMAL CONTROL SEQUENCE.

SCSF IS OVERRIDDEN ON, HAND-OFF-AUTO SWITCH IS IN THE 'ON' POSITION.

SCSF SMOKE CONTROL DAMPERS ARE DRIVEN OPEN AND SCSF IS OVERRIDDEN ON. SMOKE CONTROL DAMPER END SWITCH CONTROL OF THE SCSF IS OVERRIDDEN. SMOKE CONTROL DAMPERS IN RTU DUCTWORK ARE DRIVEN CLOSED. THE SCSF WILL CONTINUE TO OPERATE PER THE NORMAL CONTROL SEQUENCE.


EF IS OVERRIDDEN OFF, HAND-OFF-AUTO SWITCH IS IN 'OFF' POSITION.

SCSF SHALL BE OVERRIDDEN OFF

SCSF IS OVERRIDDEN ON, HAND-OFF-AUTO SWITCH IS IN THE 'ON' POSITION.

EF IS OVERRIDDEN ON

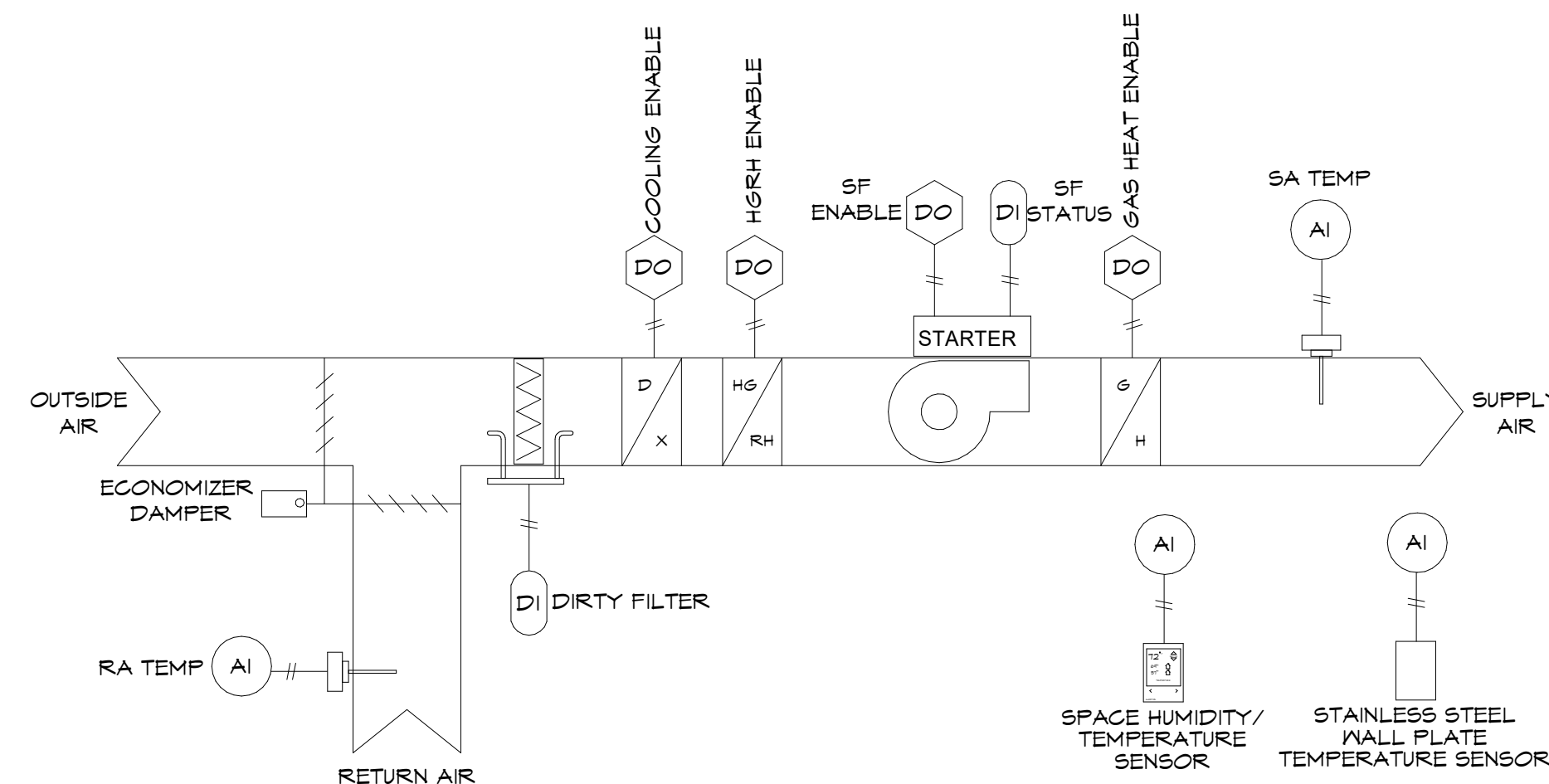
① SMOKE ZONE 10, 11 - CONTROL DIAGRAM
NTS



HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

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1 RTU CONTROLS AND SEQUENCE OF OPERATIONS



SEQUENCE OF OPERATIONS

BUILDING AUTOMATION SYSTEM INTERFACE:
THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED BYPASS, MORNING WARM-UP / PRE-COOL, OCCUPIED / UNOCCUPIED AND HEAT / COOL MODES. IF A BAS IS NOT PRESENT, OR COMMUNICATION IS LOST WITH THE BAS THE CONTROLLER SHALL OPERATE USING DEFAULT MODES AND SETPOINTS.

OCCUPIED MODE:
DURING OCCUPIED PERIODS, THE SUPPLY FAN SHALL RUN CONTINUOUSLY AND THE OUTSIDE AIR DAMPER SHALL OPEN TO MAINTAIN MINIMUM VENTILATION REQUIREMENTS. THE DX COOLING AND GAS HEAT SHALL STAGE TO MAINTAIN THE OCCUPIED SPACE TEMPERATURE SETPOINT. IF ECONOMIZING IS ENABLED THE OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN THE OCCUPIED SPACE TEMPERATURE SETPOINT.

UNOCCUPIED MODE:
WHEN THE SPACE TEMPERATURE IS BELOW THE UNOCCUPIED HEATING SETPOINT OF 60.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL START, THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED AND THE GAS HEAT SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED HEATING SETPOINT OF 60.0 DEG. F (ADJ.) PLUS THE UNOCCUPIED DIFFERENTIAL OF 4.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL STOP AND THE GAS HEAT SHALL BE DISABLED. WHEN THE SPACE TEMPERATURE IS ABOVE THE UNOCCUPIED COOLING SETPOINT OF 85.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL START, THE OUTSIDE AIR DAMPER SHALL OPEN IF ECONOMIZING IS ENABLED AND REMAIN CLOSED IF ECONOMIZING IS DISABLED AND THE DX COOLING SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED COOLING SETPOINT OF 85.0 DEG. F (ADJ.) MINUS THE UNOCCUPIED DIFFERENTIAL OF 4.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL STOP, THE DX COOLING SHALL BE DISABLED AND THE OUTSIDE AIR DAMPER SHALL CLOSE.

OPTIMAL START:
THE BAS SHALL MONITOR THE SCHEDULED OCCUPIED TIME, OCCUPIED SPACE SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL START OCCURS.

MORNING WARM-UP MODE:
DURING OPTIMAL START, IF THE SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT A MORNING WARM-UP MODE SHALL BE ACTIVATED. WHEN MORNING WARM-UP IS INITIATED THE UNIT SHALL ENABLE THE HEATING AND SUPPLY FAN. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED. WHEN THE SPACE TEMPERATURE REACHES THE OCCUPIED HEATING SETPOINT (ADJ.), THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE.

PRE-COOL MODE:
DURING OPTIMAL START, IF THE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT, PRE-COOL MODE SHALL BE ACTIVATED. WHEN PRE-COOL IS INITIATED THE UNIT SHALL ENABLE THE FAN AND COOLING OR ECONOMIZER. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED, UNLESS ECONOMIZING. WHEN THE SPACE TEMPERATURE REACHES OCCUPIED COOLING SETPOINT (ADJ.), THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE.

OPTIMAL STOP:
THE BAS SHALL MONITOR THE SCHEDULED UNOCCUPIED TIME, OCCUPIED SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL STOP OCCURS. WHEN THE OPTIMAL STOP MODE IS ACTIVE THE UNIT CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE TO THE SPACE TEMPERATURE OFFSET SETPOINT.

COOLING MODE:
THE UNIT CONTROLLER SHALL USE SPACE TEMPERATURE AND SPACE TEMPERATURE SETPOINT TO DETERMINE WHEN TO INITIATE REQUESTS FOR COOLING. WHEN THE SPACE TEMPERATURE RISES ABOVE THE SETPOINT, THE UNIT CONTROLLER SHALL MODULATE THE ECONOMIZER OR STAGE THE DX COOLING AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. ONCE THE SPACE TEMPERATURE FALLS BELOW THE SETPOINT THE COMPRESSOR SHALL BE DEACTIVATED AND THE ECONOMIZER SHALL RETURN TO MINIMUM POSITION.

HEATING MODE:
THE UNIT CONTROLLER SHALL USE THE SPACE TEMPERATURE AND SPACE TEMPERATURE SETPOINT TO DETERMINE WHEN TO INITIATE REQUESTS FOR HEAT. WHEN THE SPACE TEMPERATURE DROPS BELOW THE SETPOINT, THE UNIT CONTROLLER SHALL ENABLE GAS HEATING STAGES TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. ONCE THE SPACE TEMPERATURE RISES ABOVE THE SETPOINT THE GAS HEATING STAGES SHALL BE DISABLED.

DEHUMIDIFICATION:
FACTORY INSTALLED HOT GAS REHEAT SHALL ALLOW APPLICATION OF DEHUMIDIFICATION. DEHUMIDIFICATION SHALL BE ALLOWED ONLY WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE 40.0 DEG. F AND BELOW 100.0 DEG. F. THE ECONOMIZER OUTSIDE AIR DAMPER SHALL DRIVE TO MINIMUM POSITION DURING DEHUMIDIFICATION.

ON A CALL FOR DEHUMIDIFICATION, THE REHEAT VALVE SHALL ENERGIZE AND THE COMPRESSOR SHALL ENABLE. WHEN THE HUMIDITY CONTROL SETPOINT IS SATISFIED, THE VALVE SHALL BE DE-ENERGIZED AND THE COMPRESSOR SHALL BE DISABLED. IF THERE IS A CALL FOR COOLING FROM THE SPACE TEMPERATURE CONTROLLER, WHILE IN REHEAT, THE REHEAT VALVE SHALL BE DE-ENERGIZED AND THE COMPRESSOR CONTINUES TO RUN.

ECONOMIZER:
THE MIXED AIR SENSOR SHALL MEASURE THE DRY BULB TEMPERATURE OF THE AIR LEAVING THE EVAPORATOR COIL WHILE ECONOMIZING. WHEN ECONOMIZING IS ENABLED AND THE UNIT IS OPERATING IN THE COOLING MODE, THE ECONOMIZER DAMPER SHALL BE MODULATED BETWEEN ITS MINIMUM POSITION AND 100% TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. THE ECONOMIZER DAMPER SHALL MODULATE TOWARD MINIMUM POSITION IN THE EVENT THE MIXED AIR TEMPERATURE FALLS BELOW THE LOW LIMIT TEMPERATURE SETTING. COMPRESSORS SHALL BE DELAYED FROM OPERATING UNTIL THE ECONOMIZER HAS OPENED TO 100%.

COMPARATIVE ENTHALPY:
OUTSIDE AIR (OA) ENTHALPY SHALL BE COMPARED WITH RETURN AIR (RA) ENTHALPY POINT. THE ECONOMIZER SHALL ENABLE WHEN OA ENTHALPY IS LESS THAN RA ENTHALPY - 3.0 BTU/LB. THE ECONOMIZER SHALL DISABLE WHEN OA ENTHALPY IS GREATER THAN RA ENTHALPY.

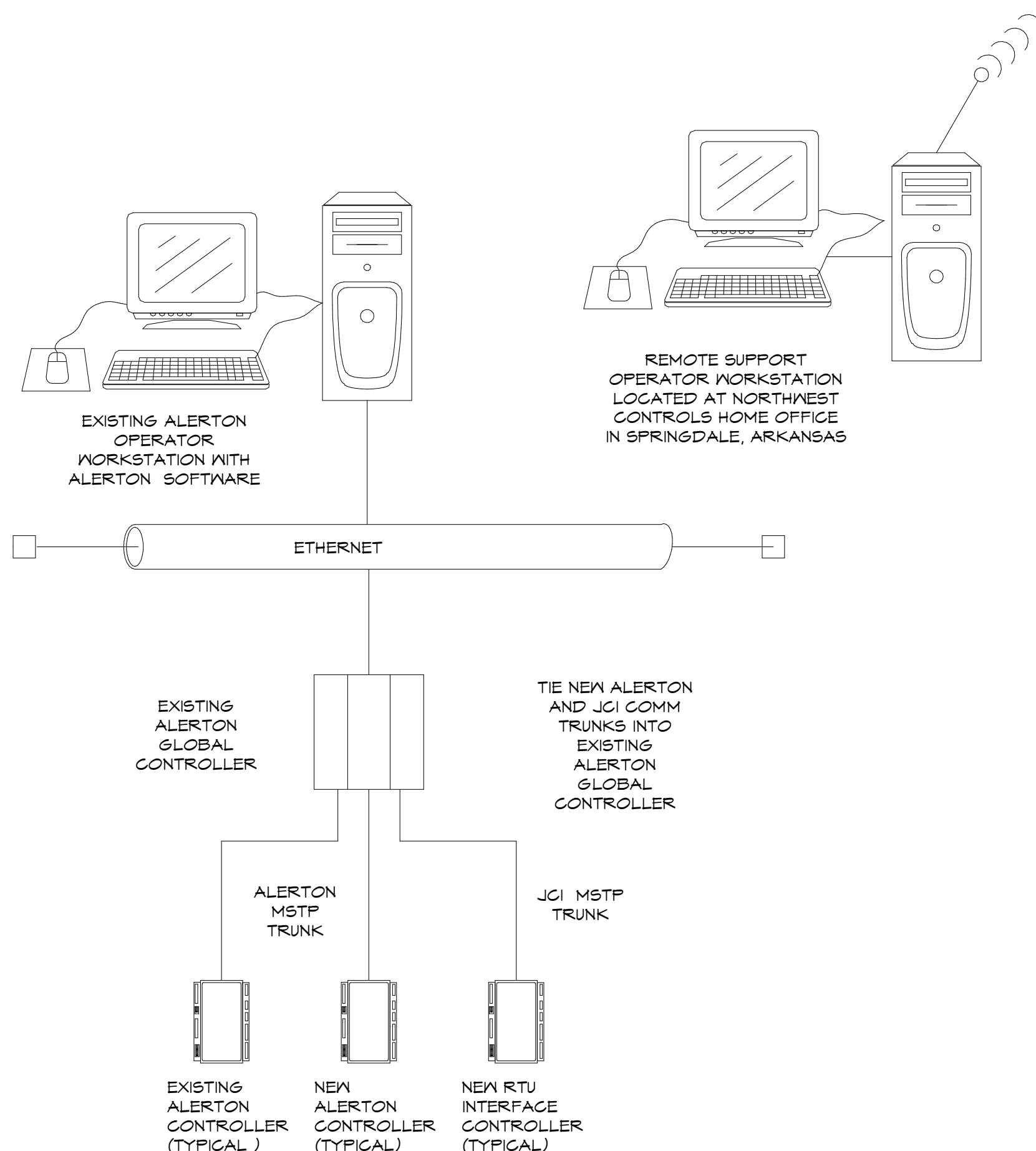
SUPPLY FAN:
THE SUPPLY FAN SHALL BE ENABLED WHILE IN THE OCCUPIED MODE AND CYCLED ON DURING THE UNOCCUPIED MODE. A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FAN. IF THE SWITCH DOES NOT OPEN WITHIN 40 SECONDS AFTER A REQUEST FOR FAN OPERATION A FAN FAILURE ALARM SHALL BE ANNUNCIATED AT THE BAS, THE UNIT SHALL STOP, REQUIRING A MANUAL RESET.

BUILDING PRESSURE CONTROL:
THE BAROMETRIC RELIEF DAMPERS SHALL OPEN WITH INCREASED BUILDING PRESSURE. AS THE BUILDING PRESSURE INCREASES, THE PRESSURE IN THE UNIT RETURN SECTION ALSO INCREASES, OPENING THE DAMPERS AND RELIEVING AIR.

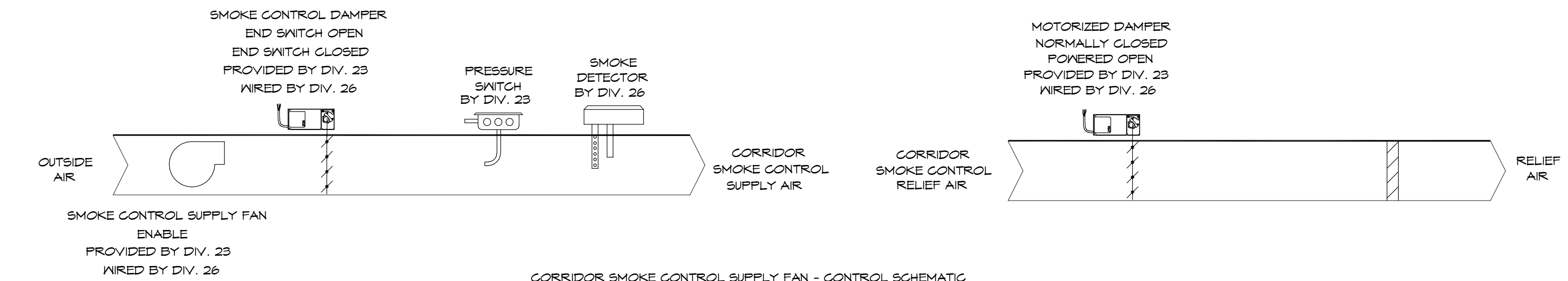
SMOKE DETECTOR SHUTDOWN:
THE UNIT SHALL SHUT DOWN IN RESPONSE TO A SIGNAL FROM EITHER SMOKE DETECTOR INDICATING THE PRESENCE OF SMOKE. THE SMOKE DETECTORS SHALL BE INTERLOCKED TO THE UNIT THROUGH THE DRY CONTACTS OF THE SMOKE DETECTORS. A MANUAL RESET OF THE SMOKE DETECTORS SHALL BE REQUIRED TO RESTART THE UNIT.

FILTER STATUS:
A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER WHEN THE FAN IS RUNNING. IF THE SWITCH CLOSSES FOR 2 MINUTES AFTER A REQUEST FOR FAN OPERATION A DIRTY FILTER ALARM SHALL BE ANNUNCIATED AT THE BAS.

2 BUILDING NETWORK ARCHITECTURE



3 SMOKE ZONE 9 - CONTROL DIAGRAM



SMOKE CONTROL/FIREMAN'S OVERRIDE PANEL SEQUENCE OF OPERATION:

THIS CONTROL SEQUENCE SHALL BE PROVIDED BY SMOKE CONTROL SYSTEM CONTRACTOR. COORDINATE ALL WORK WITH CONTROL (WHERE APPLICABLE), ELECTRICAL, FIRE ALARM, AND TEST AND BALANCE CONTRACTORS AND MECHANICAL AND ELECTRICAL EQUIPMENT VENDORS FOR A FULLY FUNCTIONAL CONTROL SYSTEM.

SMOKE CONTROL FANS SHALL BE CONTROLLED EITHER AUTOMATICALLY OR MANUALLY FROM THE SMOKE CONTROL / FIREMAN'S OVERRIDE PANEL LOCATED IN THE GUARDS CONTROL ROOM. THERE ARE MULTIPLE SMOKE CONTROL ZONES THAT OPERATE INDEPENDENTLY FROM EACH OTHER. REFER TO SHEET M3.2 FOR SMOKE CONTROL ZONE LAYOUTS. THE FOLLOWING SEQUENCE IS TYPICAL FOR SMOKE ZONES 1 THRU 8.

THE MECHANICAL CONTRACTOR WILL PROVIDE DIFFERENTIAL PRESSURE SWITCH IN THE SMOKE CONTROL SUPPLY AND EXHAUST AIR DUCTS LOCATED BETWEEN THE AIR INLETS / OUTLETS AND SMOKE CONTROL DAMPERS TO PROVE SC5F AND SC6F OPERATION.

THERE WILL BE A HAND-OFF-AUTOMATIC SWITCH FOR EACH ZONE ON THE FACE OF THE SMOKE CONTROL / FIREMAN'S OVERRIDE PANEL PROVIDED FOR INDIVIDUAL CONTROL OF THE SMOKE CONTROL SUPPLY FAN IN THE ZONE.

THERE WILL BE INDICATOR LIGHTS ON THE FACE OF THE SMOKE CONTROL / FIREMAN'S OVERRIDE PANEL TO INDICATE EQUIPMENT STATUS, E.G. SMOKE CONTROL FANS ON, OFF, AUTO, OR FAULT, AND SMOKE CONTROL DAMPERS OPEN, CLOSED, OR FAULT. ANNUNCIATE A FAULT CONDITION IF SMOKE CONTROL FAN STATUS OR IF ANY SMOKE CONTROL DAMPER END SWITCH DOES NOT MATCH ITS COMMANDED STATE. PROVIDE INDICATOR LAMP TEST SWITCH TO TEST CONDITION OF INDICATOR LAMPS.

NORMAL OPERATION: SC5F HAND-OFF-AUTO SWITCH IN 'AUTO' POSITION:

THE FIRE ALARM SYSTEM UPON DETECTION OF SMOKE IN AN ADJACENT SMOKE ZONE (REFER TO SMOKE CONTROL MATRIX, M3.2), E.G. DUCT SMOKE DETECTOR GOES INTO ALARM IN AN EXHAUST OR RETURN DUCT THAT SERVES THE SMOKE ZONE, OR ACTIVATION OF MANUAL PULL STATION IN THE SMOKE ZONE, SHALL SIGNAL THE SMOKE CONTROL SYSTEM. THE SMOKE CONTROL SYSTEM WILL OPEN THE SMOKE CONTROL DAMPERS ASSOCIATED WITH SC5F. WHEN THE SMOKE CONTROL DAMPERS ASSOCIATED WITH SC5F ARE FULLY OPEN AND PROVED THROUGH THEIR END SWITCHES THE END SWITCH WILL START THE ASSOCIATED FAN. AT THE SAME TIME, THE MOTORIZED DAMPER IN THE RELIEF DUCT IS OPENED. AFTER THE SC5F DAMPER IS OPENED, IF SMOKE IS DETECTED IN ITS SUPPLY DUCT, INDICATING SMOKE OR FIRE FROM OUTSIDE, THE SC5F SHALL SHUT DOWN.

WHEN THE FIRE CONDITION IS CLEARED, THE FIRE ALARM SYSTEM SHALL SIGNAL THE SMOKE CONTROL SYSTEM WHICH WILL CLOSE THE SMOKE CONTROL DAMPERS ASSOCIATED WITH SC5F. WHEN THE SMOKE CONTROL DAMPERS ASSOCIATED WITH SC5F BEGIN TO CLOSE AS PROVED THROUGH THEIR END SWITCHES THE END SWITCH WILL SHUT DOWN THE ASSOCIATED FAN.

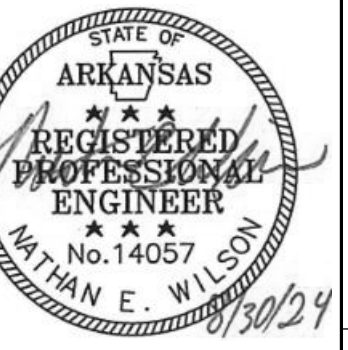
FIREMAN'S OVERRIDE CONDITIONS:

SC5F IS OVERRIDDEN OFF, HAND-OFF-AUTO SWITCH IS IN 'OFF' POSITION

SC5F SMOKE CONTROL DAMPER AND RELIEF AIR DAMPER ARE DRIVEN CLOSED AND SC5F SHALL BE OVERRIDDEN OFF.

SC5F IS OVERRIDDEN ON, HAND-OFF-AUTO SWITCH IS IN THE 'ON' POSITION.

SC5F SMOKE CONTROL DAMPER AND RELIEF AIR DAMPER ARE DRIVEN OPEN AND SC5F IS OVERRIDDEN ON. SMOKE CONTROL DAMPER END SWITCH CONTROL OF THE SC5F IS OVERRIDDEN.



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HVAC DETAILS

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ROOF TOP UNIT SCHEDULE

MARK	MFG.	MODEL #	NOM. TONS	TMBH	SMBH	EER	CFM	ESP IN. WG	INPUT (MBH)	OUTPUT (MBH)	AFUE %	OUTSIDE AIR (CFM)	FAN MOTOR HP	M.C.A.	MOP	VOLT/PH/HZ	WEIGHTS			REMARKS/ ACCESSORIES
																	CURB (lbs)	UNIT (lbs)	TOTAL (lbs)	
RTU-67	YORK	KJ061N12B4	5	65.3	46.7	12.5	2000	0.5	120	97	80	400	1-1/2	19 A	25 A	460 / 3 / 60	0	1250	1250	1, 2, 3, 4, 5, 6, 7, 9
RTU-68	YORK	KJ061N12B4	5	65.3	46.7	12.5	2000	0.5	120	97	80	360	1-1/2	19 A	25 A	460 / 3 / 60	0	1250	1250	1, 2, 3, 4, 5, 6, 7, 9
RTU-69	YORK	KJ061N12B4	5	65.3	46.7	12.5	2000	0.5	120	97	80	360	1-1/2	19 A	25 A	460 / 3 / 60	0	1250	1250	1, 2, 3, 4, 5, 6, 7, 9
RTU-70	YORK	KJ03TN06B4	3	38	27.5	12.5	1200	0.5	60	49	80	200	1-1/2	15 A	20 A	460 / 3 / 60	0	1000	1000	1, 2, 3, 4, 5, 6, 7, 9
RTU-71	YORK	KJ03TN06B4	3	38	27.5	12.5	1200	0.5	60	49	80	200	1-1/2	15 A	20 A	460 / 3 / 60	0	1000	1000	1, 2, 3, 4, 5, 6, 7, 9
RTU-72	YORK	KJ061N12B4	5	65.3	46.7	12.5	2000	0.5	120	97	80	360	1-1/2	19 A	25 A	460 / 3 / 60	0	1250	1250	1, 2, 3, 4, 5, 6, 7, 9
RTU-73	YORK	KJ061N12B4	5	65.3	46.7	12.5	2000	0.5	120	97	80	360	1-1/2	19 A	25 A	460 / 3 / 60	0	1250	1250	1, 2, 3, 4, 5, 6, 7, 9
RTU-74	YORK	KJ044N08B4	4	51.4	36.9	12.3	1600	0.5	80	65	80	300	1-1/2	17 A	20 A	460 / 3 / 60	0	1250	1250	1, 2, 3, 4, 5, 6, 7, 9
RTU-75	YORK	KJ03TN06B4	3	38	27.5	12.5	1200	0.5	60	49	80	200	1-1/2	15 A	20 A	460 / 3 / 60	0	1000	1000	1, 2, 3, 4, 5, 6, 7, 9
RTU-76	YORK	KJ03TN06B4	3	38	27.5	12.5	1200	0.5	60	49	80	200	1-1/2	15 A	20 A	460 / 3 / 60	0	1000	1000	1, 2, 3, 4, 5, 6, 7, 9
RTU-77	YORK	PCG4A24	2	24.7	18.3	11	800	0.5	50	40	80	150	1/3	17 A	25 A	208 / 1 / 60	125	320	445	1, 2, 4, 8
RTU-78	YORK	KJ03TN06B4	3	38	27.5	12.5	1200	0.5	60	49	80	240	1-1/2	15 A	20 A	460 / 3 / 60	150	1000	1150	1, 2, 3, 4, 5, 6, 7, 9
RTU-79	YORK	KJ090N18P4	7.5	94.5	67.7	12.2	3000	0.5	180	146	80	600	1-1/2	26 A	30 A	460 / 3 / 60	150	1350	1500	1, 2, 3, 4, 5, 6, 7, 9
RTU-80	YORK	KJ078N12P4	6	78.3	54	12	2400	0.5	120	97	80	480	1-1/2	23 A	25 A	460 / 3 / 60	150	1150	1300	1, 2, 3, 4, 5, 6, 7, 9
RTU-81	YORK	KJ078N12P4	6	78.3	54	12	2400	0.5	120	97	80	480	1-1/2	23 A	25 A	460 / 3 / 60	150	1150	1300	1, 2, 3, 4, 5, 6, 7, 9

- REMARKS/ACCESSORIES
1. PROVIDE FACTORY INSTALLED BAGNET CONTROLLER TO CONNECT TO BAS.
 2. PROVIDE 2" MERV 8 PLEATED MEDIA FILTER.
 3. PROVIDE FACTORY HOT GAS REHEAT.
 4. PROVIDE FACTORY CONDENSER COIL HAIL GUARDS.
 5. PROVIDE HINGED ACCESS DOORS.
 6. PROVIDE 100% ECONOMIZER WITH DUAL ENTHALPY CONTROL AND BAROMETRIC RELIEF.
 7. PROVIDE NON-FUSED DISCONNECT SWITCH AND NON-POWERED CONVENIENCE OUTLET.
 8. PROVIDE 14" ROOF CURB.
 9. PROVIDE HORIZONTAL DISCHARGE.

LOUVER SCHEDULE

MARK	CFM	NECK SIZE	MFG	MODEL	TYPE	FINISH	FRAME	ACCESSORIES
EL-1	300	16" X 16"	GREENHECK	ESP-635	EXHAUST LOUVER	PRIMED	FLANGED	1, 2
EL-2	1000	32" X 24"	GREENHECK	ESP-635	EXHAUST LOUVER	PRIMED	FLANGED	1, 2
EL-3	1000	32" X 24"	GREENHECK	ESP-635	EXHAUST LOUVER	PRIMED	FLANGED	1, 2
IL-1	3500	48" X 32"	GREENHECK	EAD-635	INTAKE LOUVER	PRIMED	FLANGED	1, 2, 3, 4
IL-2	200	16" X 16"	GREENHECK	EAD-635	INTAKE LOUVER	PRIMED	FLANGED	1, 2, 3, 4
IL-3	200	16" X 16"	GREENHECK	EAD-635	INTAKE LOUVER	PRIMED	FLANGED	1, 2, 3, 4
IL-4	200	16" X 16"	GREENHECK	EAD-635	INTAKE LOUVER	PRIMED	FLANGED	1, 2, 3, 4
IL-5	1000	36" X 24"	GREENHECK	EAD-635	INTAKE LOUVER	PRIMED	FLANGED	1, 2, 3, 4
IL-6	200	16" X 16"	GREENHECK	EAD-635	INTAKE LOUVER	PRIMED	FLANGED	1, 2, 3, 4

- REMARKS/ACCESSORIES
1. ALUMINUM CONSTRUCTION.
 2. PROVIDE STEEL BIRD SCREEN.
 3. PROVIDE BELIMO AF-120 120 VOLT TWO POSITION SPRING RETURN ACTUATOR AND LINKAGE. PROVIDE 110V ACTIVATION WITH AUXILIARY CONTACTS.
 4. MOTORIZED DAMPER TO INTERLOCK WITH ASSOCIATED EXHAUST FANS AS INDICATED ON PLANS.

EXHAUST FAN SCHEDULE

MARK	MFG.	MODEL	CFM	ESP. IN. WC	H.P./WATTS	VOLT/PH/HZ	INTERLOCK	SONE	RPM	WEIGHT (LBS)	REMARKS / ACCESSORIES
EF-49	GREENHECK	CUE-090-VG	300	0.25	1/10	115 / 1 / 60	RTU-68	4.3	1062	50	1, 2, 9
EF-50	GREENHECK	CUE-090-VG	300	0.25	1/10	115 / 1 / 60	RTU-69	4.3	1062	50	1, 2, 9
EF-51	GREENHECK	SP-A90	75	0.4	1/8	115 / 1 / 60	LIGHT-SWITCH	-	886	30	1, 2, 3, 5
EF-52	GREENHECK	CUE-070-VG	150	0.25	1/15	115 / 1 / 60	RTU-71	2.5	1321	50	1, 2, 9
EF-53	GREENHECK	CUE-090-VG	300	0.25	1/10	115 / 1 / 60	RTU-72	4.3	1062	50	1, 2, 9
EF-54	GREENHECK	CUE-090-VG	300	0.25	1/10	115 / 1 / 60	RTU-73	4.3	1062	50	1, 2, 9
EF-55	GREENHECK	CUE-070-VG	200	0.25	1/15	115 / 1 / 60	T-STAT	3.3	1404	50	1, 2, 6
EF-56	GREENHECK	CUE-070-VG	150	0.25	1/15	115 / 1 / 60	RTU-70	2.5	1321	50	1, 2, 9
EF-57	GREENHECK	SP-A90	75	0.4	1/4	115 / 1 / 60	LIGHT-SWITCH	-	886	30	1, 2, 3, 5
EF-58	GREENHECK	CSP-A390-VG	150	0.5	31 W	115 / 1 / 60	RTU-76	2.1	1244	30	1, 2, 4, 9
EF-59	GREENHECK	CSP-A390-VG	150	0.5	31 W	115 / 1 / 60	RTU-75	2.1	1244	30	1, 2, 4, 9
EF-60	GREENHECK	CSP-A390-VG	200	0.5	40 W	115 / 1 / 60	T-STAT	2.2	1263	30	1, 2, 6
EF-61	GREENHECK	SP-A90	75	0.25	14 W	115 / 1 / 60	LIGHT-SWITCH	0.4	886	30	1, 2, 3, 5
EF-62	GREENHECK	CSP-A390-VG	200	0.5	40 W	115 / 1 / 60	T-STAT	2.2	1263	30	1, 2, 6
EF-63	GREENHECK	G-095-VG	300	0.5	1/6	115 / 1 / 60	T-STAT	7.4	1354	75	1, 2, 6, 7
EF-64	GREENHECK	G-080-VG	150	0.5	1/10	115 / 1 / 60	LIGHT-SWITCH	7.2	1461	30	1, 2, 3, 7
EF-65	GREENHECK	G-080-VG	150	0.5	1/10	115 / 1 / 60	EX. RTU-14	7.2	1461	30	1, 2, 7
EF-66	GREENHECK	G-095-VG	200	0.5	1/6	115 / 1 / 60	CONTINUOUS	7.2	1330	75	1, 2, 7
EF-67	GREENHECK	SQ-100-VG	1000	0.5	1/4	115 / 1 / 60	T-STAT	8.8	1527	75	1, 2, 4, 6
EF-68	GREENHECK	SQ-100-VG	1000	0.5	1/4	115 / 1 / 60	T-STAT	8.8	1527	75	1, 2, 4, 6
EF-69	GREENHECK	CUBE-100HP	340	0.5	1/4	115 / 1 / 60	CONTINUOUS	5.7	1325	85	1, 7, 8, 9
EF-70	GREENHECK	G-095-VG	300	0.5	1-6	115 / 1 / 60	LIGHT-SWITCH	7.4	1354	75	1, 2, 3, 7
EF-71	GREENHECK	CUBE-100HP	460	0.5	1/4	115 / 1 / 60	CONTINUOUS	7.5	1504	85	1, 7, 8, 9
EF-72	GREENHECK	G-080-VG	150	0.5	1/10	115 / 1 / 60	LIGHT-SWITCH	7.2	1461	30	1, 2, 3, 7
EF-73	GREENHECK	SP-A90	75	0.25	14 W	115 / 1 / 60	LIGHT-SWITCH	0.4	886	30	1, 2, 3, 5
EF-74	GREENHECK	SP-A90	75	0.25	14 W	115 / 1 / 60	LIGHT-SWITCH	0.4	886	30	1, 2, 3, 5
EF-75	GREENHECK	AER-20-02-0610-VG	1750	0.5	3/4	115 / 1 / 60	T-STAT / HOA SWITCH	15.2	1319	80	1, 2, 6, 10, 11
EF-76	GREENHECK	AER-20-02-0610-VG	1750	0.5	3/4	115 / 1 / 60	T-STAT / HOA SWITCH	15.2	1319	80	1, 2, 6, 10, 11
SCEF-1	GREENHECK	CUBE-180	2200	0.25	1/4	115 / 1 / 60	SMOKE DETECTOR	7.0	702	120	1, 7, 8, 9
SCEF-2	GREENHECK	CUBE-180	2200	0.25	1/4	115 / 1 / 60	SMOKE DETECTOR	10.2	887	120	1, 7, 8, 9
SCEF-3	GREENHECK	CUBE-120	800	0.25	1/4	115 / 1 / 60	SMOKE DETECTOR	5.8	880	80	1, 7, 8, 9
SCEF-4	GREENHECK	CUBE-120	800	0.25	1/4	115 / 1 / 60	SMOKE DETECTOR	5.8	880	80	1, 7, 8, 9
SCEF-5	GREENHECK	CUBE-140	1250	0.25	1/4	115 / 1 / 60	SMOKE DETECTOR	7.0	861	80	1, 7, 8, 9
SCEF-6	GREENHECK	CUBE-140	1250	0.25	1/4	115 / 1 / 60	SMOKE DETECTOR	7.0	861	80	1, 7, 8, 9
SCEF-7	GREENHECK	CUBE-180	2200	0.25	1/4	115 / 1 / 60	SMOKE DETECTOR	10.2	887	120	1, 7, 8, 9
SCEF-8	GREENHECK	CUBE-180	2200	0.25	1/4	115 / 1 / 60	SMOKE DETECTOR	10.2	887	120	1, 7, 8, 9

- REMARKS/ACCESSORIES
1. PROVIDE FACTORY BACK DRAFT DAMPER.
 2. PROVIDE DIRECT DRIVE MOTOR WITH FAN SPEED CONTROLLER.
 3. INTERLOCK EXHAUST FAN WITH LIGHT SWITCH BY ELECTRICAL CONTRACTOR.
 4. PROVIDE FACTORY CEILING HUNG VIBRATION ISOLATORS.
 5. PROVIDE STANDARD GRILLE CONSTRUCTION.
 6. PROVIDE LINE VOLTAGE THERMOSTAT.
 1. PROVIDE FACTORY 14 INCH ROOF CURB.
 8. PROVIDE UL LISTED FAN FOR SMOKE CONTROL SYSTEMS. PROVIDE WITH 1.5X BELTS.
 9. INTERLOCK FAN WITH SMOKE CONTROL SYSTEM. REFER TO CONTROL DETAILS FOR INFORMATION.
 10. PROVIDE WEATHER HOOD
 11. PROVIDE MOTOR GUARD

SUPPLY FAN SCHEDULE

MARK	MFG.	MODEL	CFM	ESP. IN. WC	H.P./WATTS	VOLT/PH/HZ	SONE	RPM	REMARKS / ACCESSORIES
SCSF-1	GREENHECK	AS-16-420-A	1770	0.25	1/2	115 / 1 / 60	19.5	1750	1, 2, 3, 4
SCSF-2	GREENHECK	AS-16-420-A	1770	0.25	1/2	115 / 1 / 60	19.5	1750	1, 2, 3, 4
SCSF-3	GREENHECK	AS-12-420-A	615	0.25	1/4	115 / 1 / 60	14.6	1750	1, 2, 3, 4
SCSF-4	GREENHECK	AS-12-420-A	615	0.25	1/4	115 / 1 / 60	14.6	1750	1, 2, 3, 4
SCSF-5	GREENHECK	AS-12-433-A	960	0.25	1/4	115 / 1 / 60	13.6	1750	1, 2, 3, 4
SCSF-6	GREENHECK	AS-12-433-A	960	0.25	1/4	115 / 1 / 60	13.6	1750	1, 2, 3, 4
SCSF-7	GREENHECK	AS-16-420-A	1770	0.25	1/2	115 / 1 / 60	19.5	1750	1, 2, 3, 4
SCSF-8	GREENHECK	AS-16-420-A	1770	0.25	1/2	115 / 1 / 60	19.5	1750	1, 2, 3, 4
SCSF-9	GREENHECK	AS-16-420-A	1000	0.5	1/2	115 / 1 / 60	13.6	1750	1, 2, 3, 4
SCSF-10	GREENHECK	AS-10-420-A	270	0.25	1/8	115 / 1 / 60	10.2	1750	1, 2, 3, 4
SCSF-11	GREENHECK	AS-12-420-A	370	0.25	1/4	115 / 1 / 60	14.2	1750	1, 2, 3, 4

- REMARKS/ACCESSORIES
1. PROVIDE FACTORY BACK DRAFT DAMPER.
 2. PROVIDE DIRECT DRIVE MOTOR WITH FAN SPEED CONTROLLER.
 3. INTERLOCK SUPPLY FAN WITH SMOKE DETECTOR BY ELECTRICAL CONTRACTOR.
 4. PROVIDE FACTORY ROOF CURB.

MINISPLIT SCHEDULE

MARK	MFG.	MODEL	CONNECT ED OUTDOOR UNIT	TON(S)	CFM (LO-M1-M2-HI)	COOLING		HEATING	ELECTRICAL (POWERED FROM OUTDOOR UNIT)		ACCESSORIES
						TMBH	SMBH		M.C.A.	VOLT / PH / HZ	
MS1-1	DAIKIN	FTK09NMVJU	MS_CU-1	3/4 TON	145-194-279-381	9	7.04	9.45	0.11	208-230 / 1 / 60	1, 2, 3, 4
MS1-2	DAIKIN	FTK09NMVJU	MS_CU-1	3/4 TON	145-194-279-381	9	7.04	9.45	0.11	208-230 / 1 / 60	1, 2, 3, 4

- REMARKS/ACCESSORIES
1. PROVIDE WIRELESS THERMOSTAT
 2. PROVIDE FACTORY WALL MOUNTING HARDWARE.
 3. INSTALL REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.
 4. POWERED FROM OUTDOOR UNIT

MINISPLIT CONDENSER

MARK	MFG.	MODEL
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GENERAL ELECTRICAL SITE DEMOLITION NOTES(THIS SHEET ONLY)

1. REFER TO CIVIL DEMOLITION SHEET G1.0 FOR ADDITIONAL INFORMATION.
2. ALL DEMOLISHED DEVICES SHALL TO BE RETURNED TO OWNER.

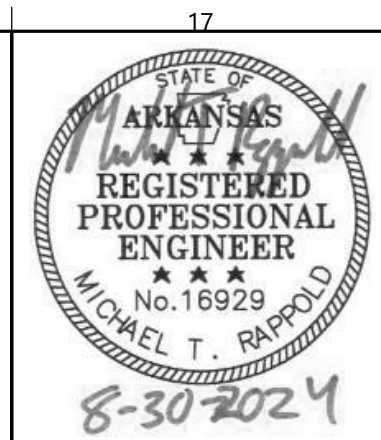
KEYED ELECTRICAL SITE DEMOLITION NOTES(THIS SHEET ONLY)

- 1 EXISTING CONDUIT FOR SECURITY SYSTEM TO BE LOWERED TO AVOID CONFLICT WITH FUTURE ADDITION, FIELD VERIFY EXISTING CONDITIONS, PROVIDE NEW CABLE AND CONDUIT AS REQUIRED.
- 2 EXISTING CONDUIT FOR SECURITY SYSTEM TO BE LOWERED TO AVOID CONFLICT WITH FUTURE ADDITION, FIELD VERIFY EXISTING CONDITIONS, PROVIDE NEW CABLE AND CONDUIT AS REQUIRED.
- 3 EXISTING UNDERGROUND ELECTRIC TO BE LOWERED TO AVOID CONFLICT WITH FUTURE ADDITION, FIELD VERIFY EXISTING CONDITIONS, PROVIDE NEW CABLE AND CONDUIT AS REQUIRED.
- 4 EXISTING UNDERGROUND PANEL FEEDER TO BE INTERCEPTED IN GREENSPACE NEAR BUILDING AND REFEED FROM NEW ADDITION, REFER TO ELECTRICAL RISER FOR ADDITIONAL INFORMATION.
- 5 EXISTING CONDUIT FOR FIRE ALARM TO BE LOWERED TO AVOID CONFLICT WITH FUTURE ADDITION, FIELD VERIFY EXISTING CONDITIONS, PROVIDE NEW CABLE AND CONDUIT AS REQUIRED.
- 6 EXISTING CONDUIT FOR HVAC CONTROLS TO BE LOWERED TO AVOID CONFLICT WITH FUTURE ADDITION, FIELD VERIFY EXISTING CONDITIONS, PROVIDE NEW CABLE AND CONDUIT AS REQUIRED.
- 7 EXISTING UNDERGROUND PRIMARY SERVICE TO BE REMOVED, COORDINATE REQUIREMENTS AND REMOVAL WITH AEP.
- 8 EXISTING POLE LIGHT TO BE REMOVED AND RELOCATED.
- 9 SECURITY CAMERA POST TO BE REMOVED, AND RELOCATED. COORDINATE RELOCATION WITH SECURITY CONTRACTOR.
- 10 INTERCOM STATION TO BE REMOVED, AND RELOCATED. COORDINATE RELOCATION WITH SECURITY CONTRACTOR.
- 11 EXISTING MOTORIZED GATE TO BE REMOVED.
- 12 EXISTING WALK THRU GATE TO BE REMOVED AND RELOCATED. COORDINATE RELOCATION WITH SECURITY CONTRACTOR.
- 13 EXISTING MOTION DETECTORS TO BE RELOCATED. COORDINATE RELOCATION WITH SECURITY CONTRACTOR.

ELECTRICAL SITE PLAN LEGEND

-- -- EX-UG -- --	EXISTING TO BE REWORKED UNDERGROUND ELECTRIC
--- EX-UGC ---	EXISTING TO BE REWORKED EXISTING UNDERGROUND ELECTRIC
-- -- EX-OHE -- --	EXISTING TO BE REWORKED EXISTING OVERHEAD ELECTRIC
-- -- EX-UG -- --	EXISTING UNDERGROUND ELECTRIC
--- EX-UGC ---	EXISTING UNDERGROUND ELECTRIC
-- -- EX-OHE -- --	EXISTING OVERHEAD ELECTRIC
	QUAZITE BOX #P63048BA24 WITH COVER PART #P63048CA00

1 ELECTRICAL SITE DEMOLITION PLAN
1" = 30'-0"



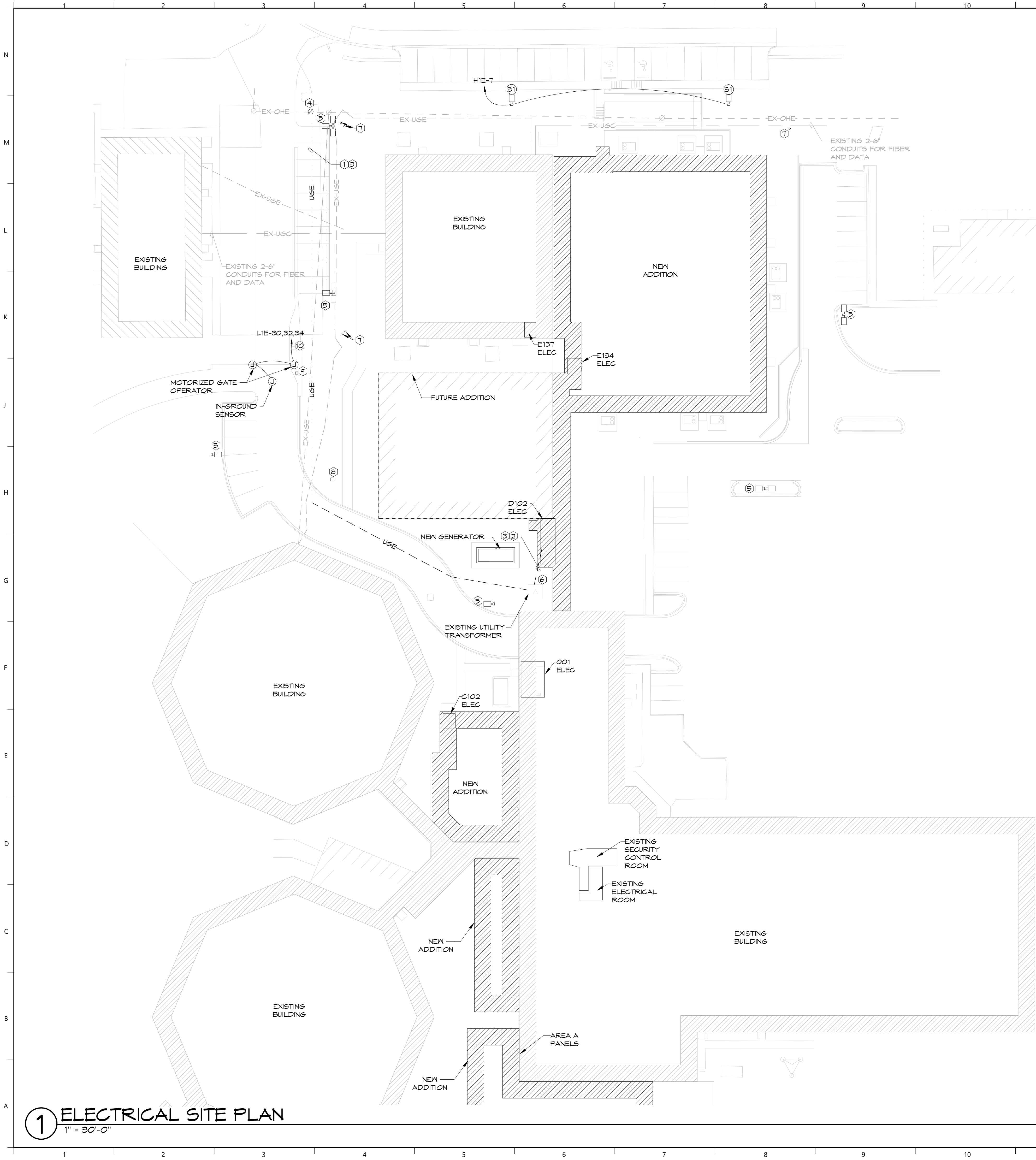
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AN ADDITION AND REMODEL FOR
Washington Co. Covid Mitigation
FAYETTEVILLE, AR

DRAWN BY: HA
CHECK BY: MTR
ISSUE DATE 08/30/2024
PROJECT NO. 2333
REVISION DATES 10/04/2024
ELECTRICAL SITE DEMOLITION PLAN SHEET ES1.0
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HSA JOB # 23-196a



1 ELECTRICAL SITE PLAN
1" = 30'-0"

GENERAL ELECTRICAL SITE NOTES (THIS SHEET ONLY)

1. THE PRIMARY AND SECONDARY DITCH, PRIMARY AND SECONDARY CONDUITS WITH 1/4" FULL ROPE, SECONDARY CONDUITS, ARE TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. PROVIDE 36" LONG PVC SWEEPS FOR PRIMARY CONDUIT. PROVIDE LONG SWEEP GALVANIZED RIGID STEEL ELBOWS FOR THE SECONDARY. PROVIDE ALL TRENCHING, BACKFILLING, SAWCUTTING AND PATCHING OF HARD SURFACES, ECT FOR CONDUITS. THE TRANSFORMER AND PRIMARY CONDUITS TO ARE PROVIDED AND INSTALLED BY UTILITY COMPANY.
2. THE PRIMARY CONDUITS SHALL BE 3-4" GRAY SCHEDULE 40 UL PVC CONDUITS, AND HAVE A MINIMUM OF 48" OF FILL ON TOP OF CONDUITS. SECONDARY CONDUITS SHALL BE INSTALLED A MINIMUM OF 24" BELOW GRADE USING 24" RIGID ELBOWS ENGAGED IN 4" COVER OF CONCRETE (SLURRY FILL) FROM THE MAIN DISCONNECT TO THE TRANSFORMER.
3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL COSTS OF INSTALLATION AND CONNECTING THE ELECTRICAL SERVICE CONDUITS. COORDINATE CONNECTION WITH AEP.

KEYED ELECTRICAL SITE NOTES (THIS SHEET ONLY)

- 1 PRIMARY ELECTRICAL SERVICE CONDUIT, REFER TO GENERAL NOTE 1.
- 2 ELECTRICAL SECONDARY, REFER TO GENERAL NOTE 1, AND 2 FOR INSTALLATION. REFER TO RISER DIAGRAM FOR CONDUIT AND WIRE SIZES.
- 3 IDENTIFY OUTDOOR UNDERGROUND LINES WITH CONTINUOUS STRIP OF PLASTIC UTILITY MARKER. TAPE SHOULD STATE AT REGULAR INTERVALS: "CAUTION (STATE UTILITY) PIPE BELOW". INSTALL TAPE ONE FOOT DIRECTLY ABOVE PIPE BEFORE BACKFILLING TO GRADE.
- 4 PROPOSED LOCATION FOR NEW POWER POLE. COORDINATE WITH SNEPCO.
- 5 RELOCATED POLE LIGHT, SPLICE AND EXTEND EXISTING CONDUCTORS AS REQUIRED.
- 6 MAINTAIN 10' CLEARANCE FROM FRONT OF EXISTING UTILITY TRANSFORMER.
- 7 RELOCATED MOTION DETECTORS COORDINATE NEW LOCATIONS WITH SECURITY CONTRACTOR.
- 8 QUAZITE BOX #PG2424BA24 WITH COVER #PG2424CG00. FROM BOX STUB 2-2" AND 2-1" CONDUITS INTO NEAREST ELECTRICAL ROOM, CAP AND LABEL AS SPARE.
- 9 FURNISH AND INSTALL IN-GRADE QUAZITE BOX #PG2424BA00 WITH COVER PG2424CA00 FOR GATE POWER, AND ACCESS CONTROL EQUIPMENT. COORDINATE LOCATION WITH EQUIPMENT PROVIDER/INSTALLER. INSTALL 4-1" CONDUITS FROM QUAZITE BOX TO ROOM E154.
- 10 PROVIDE 1-1" CONDUITS FROM GATE OPERATOR QUAZITE BOX TO INTERCOM PEDESTAL ISLAND. COORDINATE WITH ELECTRONIC SECURITY DRAWINGS.

ELECTRICAL SITE PLAN LEGEND

- UGE --- UNDERGROUND ELECTRIC
- UGC --- UNDERGROUND CONDUIT
- EX-UGE --- EXISTING UNDERGROUND ELECTRIC
- EX-UGC --- EXISTING UNDERGROUND CONDUIT
- EX-OHE --- EXISTING OVERHEAD ELECTRIC
- QUAZITE BOX #PG3048BA24 WITH COVER PART #PG3048CA00

UTILITY CONTACT

AEP CHRISTIAN D DICKEY 479.973.2306

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7405 Ellis St.
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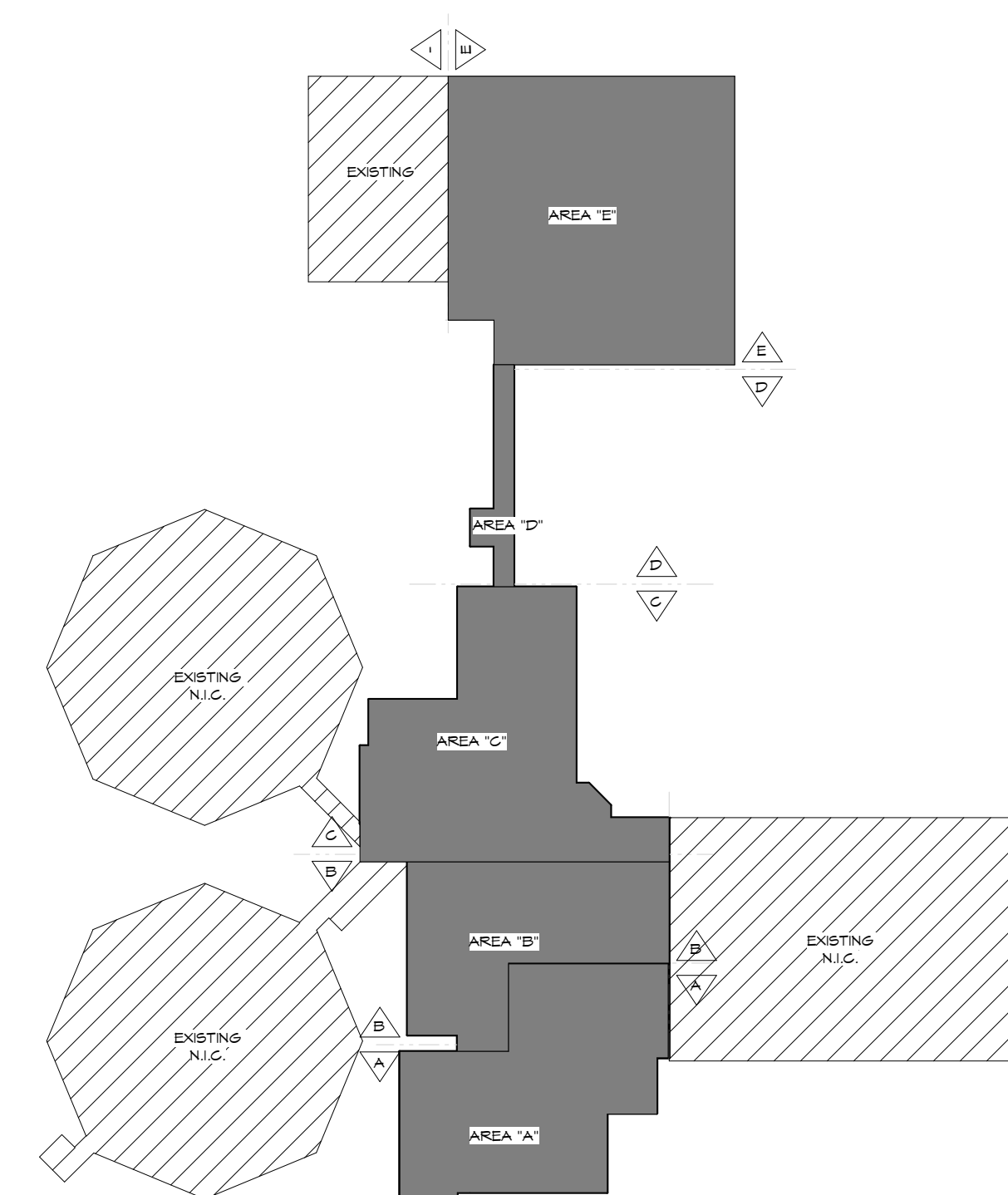
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ELECTRICAL SITE PLAN
SHEET
ES1.1
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17



STATE OF
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REGISTERED
PROFESSIONAL
ENGINEER
No. 16929
MICHAEL T. RAPPOLD
8-30-2024

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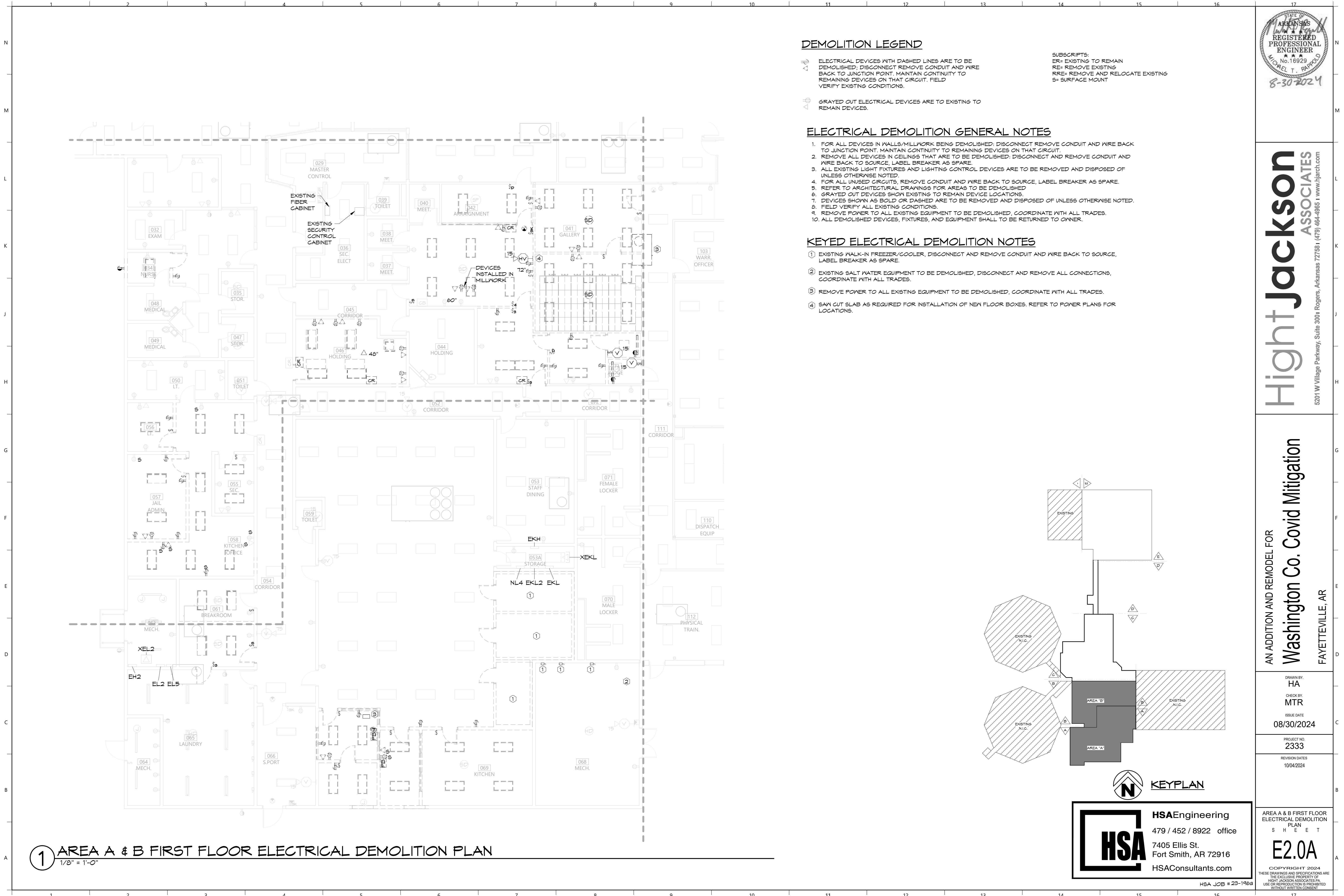
OVERALL ELECTRICAL
DEMO PLAN

S H E E

E2.0

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HSA JOB # 23-19



1 AREA A & B FIRST FLOOR ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"

DEMOLITION LEGEND

ELECTRICAL DEVICES WITH DASHED LINES ARE TO BE DEMOLISHED; DISCONNECT REMOVE CONDUIT AND WIRE BACK TO JUNCTION POINT. MAINTAIN CONTINUITY TO REMAINING DEVICES ON THAT CIRCUIT. FIELD VERIFY EXISTING CONDITIONS.

GRAYED OUT ELECTRICAL DEVICES ARE TO EXISTING TO REMAIN DEVICES.

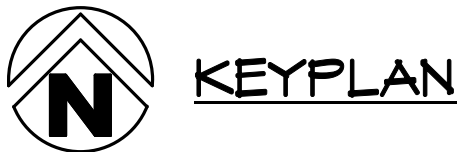
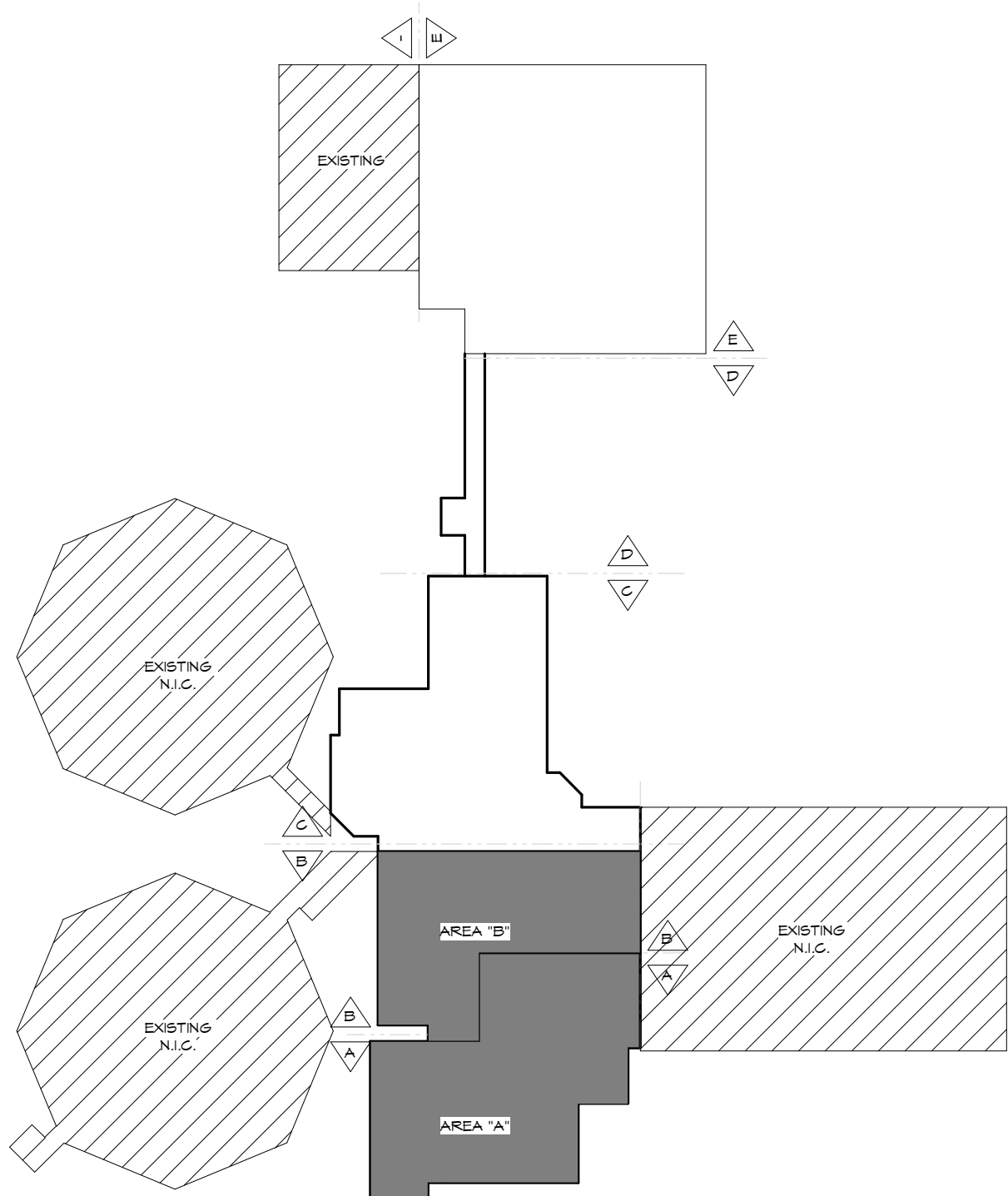
SUBSCRIPTS:
ER= EXISTING TO REMAIN
RE= REMOVE EXISTING
RRE= REMOVE AND RELOCATE EXISTING
S= SURFACE MOUNT

ELECTRICAL DEMOLITION GENERAL NOTES

- FOR ALL DEVICES IN WALLS/MILLWORK BEING DEMOLISHED; DISCONNECT REMOVE CONDUIT AND WIRE BACK TO JUNCTION POINT. MAINTAIN CONTINUITY TO REMAINING DEVICES ON THAT CIRCUIT.
- REMOVE ALL DEVICES IN CEILINGS THAT ARE TO BE DEMOLISHED; DISCONNECT AND REMOVE CONDUIT AND WIRE BACK TO SOURCE, LABEL BREAKER AS SPARE.
- ALL EXISTING LIGHT FIXTURES AND LIGHTING CONTROL DEVICES ARE TO BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED.
- FOR ALL UNUSED CIRCUITS, REMOVE CONDUIT AND WIRE BACK TO SOURCE, LABEL BREAKER AS SPARE.
- REFER TO ARCHITECTURAL DRAWINGS FOR AREAS TO BE DEMOLISHED.
- GRAYED OUT DEVICES SHOWN EXISTING TO REMAIN DEVICE LOCATIONS.
- DEVICES SHOWN AS BOLD OR DASHED ARE TO BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED.
- FIELD VERIFY ALL EXISTING CONDITIONS.
- REMOVE POWER TO ALL EXISTING EQUIPMENT TO BE DEMOLISHED, COORDINATE WITH ALL TRADES.
- ALL DEMOLISHED DEVICES, FIXTURES, AND EQUIPMENT SHALL TO BE RETURNED TO OWNER.

KEYED ELECTRICAL DEMOLITION NOTES

- EXISTING WALK-IN FREEZER/COOLER, DISCONNECT AND REMOVE CONDUIT AND WIRE BACK TO SOURCE, LABEL BREAKER AS SPARE.
- EXISTING SALT WATER EQUIPMENT TO BE DEMOLISHED, DISCONNECT AND REMOVE ALL CONNECTIONS, COORDINATE WITH ALL TRADES.
- REMOVE POWER TO ALL EXISTING EQUIPMENT TO BE DEMOLISHED, COORDINATE WITH ALL TRADES.
- SAW CUT SLAB AS REQUIRED FOR INSTALLATION OF NEW FLOOR BOXES. REFER TO POWER PLANS FOR LOCATIONS.



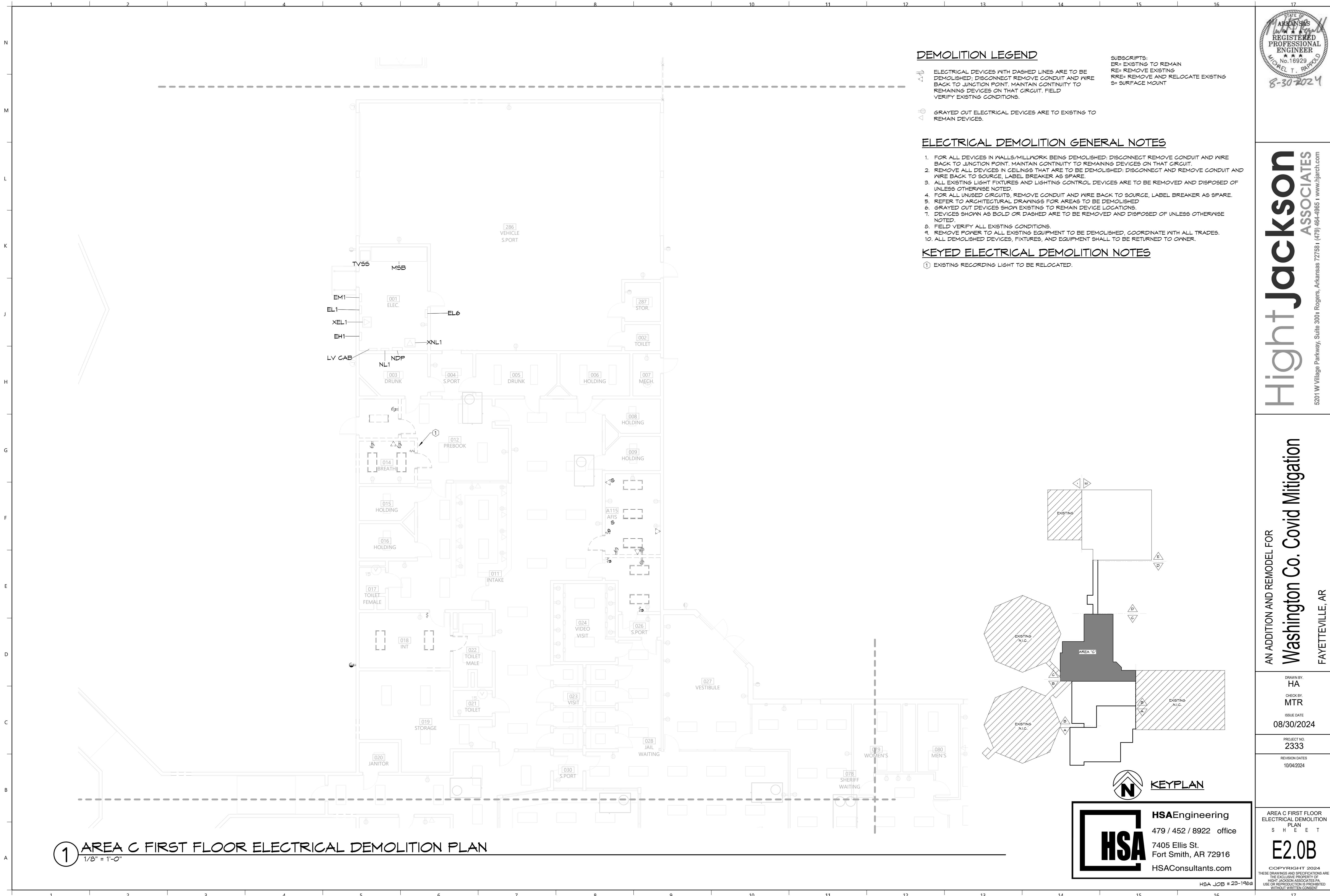
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Washington Co. Covid Mitigation
FAYETTEVILLE, AR

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ISSUE DATE 08/30/2024
PROJECT NO. 2333
REVISION DATES 10/04/2024
AREA A & B FIRST FLOOR ELECTRICAL DEMOLITION PLAN SHEET E2.0A
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1 AREA C FIRST FLOOR ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"

DEMOLITION LEGEND

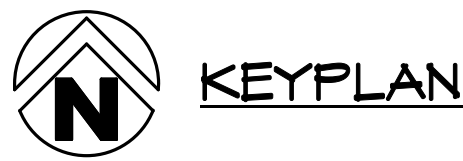
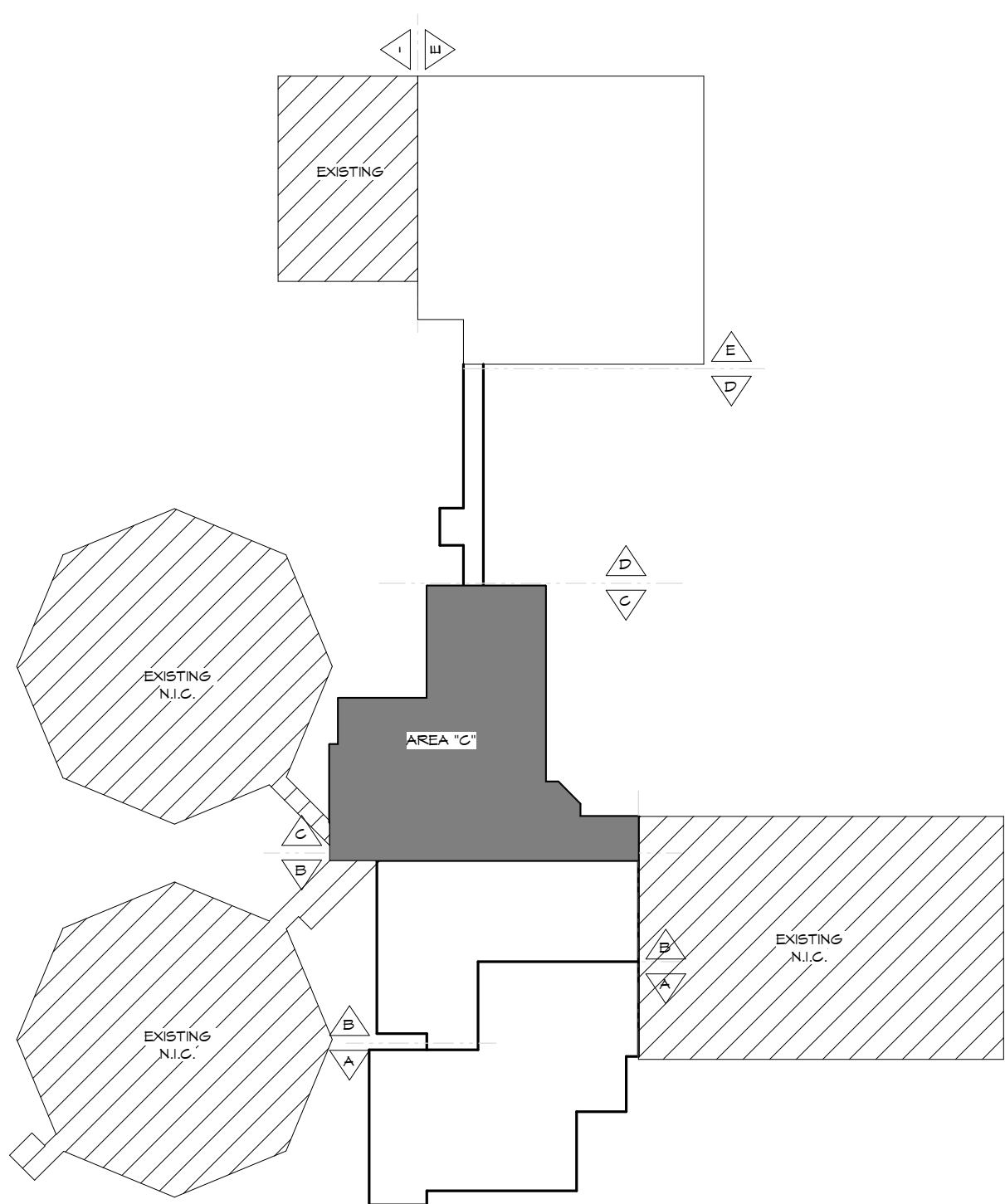
- ELECTRICAL DEVICES WITH DASHED LINES ARE TO BE DEMOLISHED; DISCONNECT REMOVE CONDUIT AND WIRE BACK TO JUNCTION POINT. MAINTAIN CONTINUITY TO REMAINING DEVICES ON THAT CIRCUIT.
- GRAYED OUT ELECTRICAL DEVICES ARE TO EXIST TO REMAIN DEVICES.
- SUBSCRIPTS:
ER= EXISTING TO REMAIN
RE= REMOVE EXISTING
RRE= REMOVE AND RELOCATE EXISTING
S= SURFACE MOUNT

ELECTRICAL DEMOLITION GENERAL NOTES

- FOR ALL DEVICES IN WALLS/MILLWORK BEING DEMOLISHED, DISCONNECT REMOVE CONDUIT AND WIRE BACK TO JUNCTION POINT. MAINTAIN CONTINUITY TO REMAINING DEVICES ON THAT CIRCUIT.
- REMOVE ALL DEVICES IN CEILINGS THAT ARE TO BE DEMOLISHED; DISCONNECT AND REMOVE CONDUIT AND WIRE BACK TO SOURCE, LABEL BREAKER AS SPARE.
- ALL EXISTING LIGHT FIXTURES AND LIGHTING CONTROL DEVICES ARE TO BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED.
- FOR ALL UNUSED CIRCUITS, REMOVE CONDUIT AND WIRE BACK TO SOURCE, LABEL BREAKER AS SPARE.
- REFER TO ARCHITECTURAL DRAWINGS FOR AREAS TO BE DEMOLISHED
- GRAYED OUT DEVICES SHOW EXISTING TO REMAIN DEVICE LOCATIONS.
- DEVICES SHOWN AS BOLD OR DASHED ARE TO BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED.
- FIELD VERIFY ALL EXISTING CONDITIONS.
- REMOVE POWER TO ALL EXISTING EQUIPMENT TO BE DEMOLISHED, COORDINATE WITH ALL TRADES.
- ALL DEMOLISHED DEVICES, FIXTURES, AND EQUIPMENT SHALL TO BE RETURNED TO OWNER.

KEYED ELECTRICAL DEMOLITION NOTES

- ① EXISTING RECORDING LIGHT TO BE RELOCATED.



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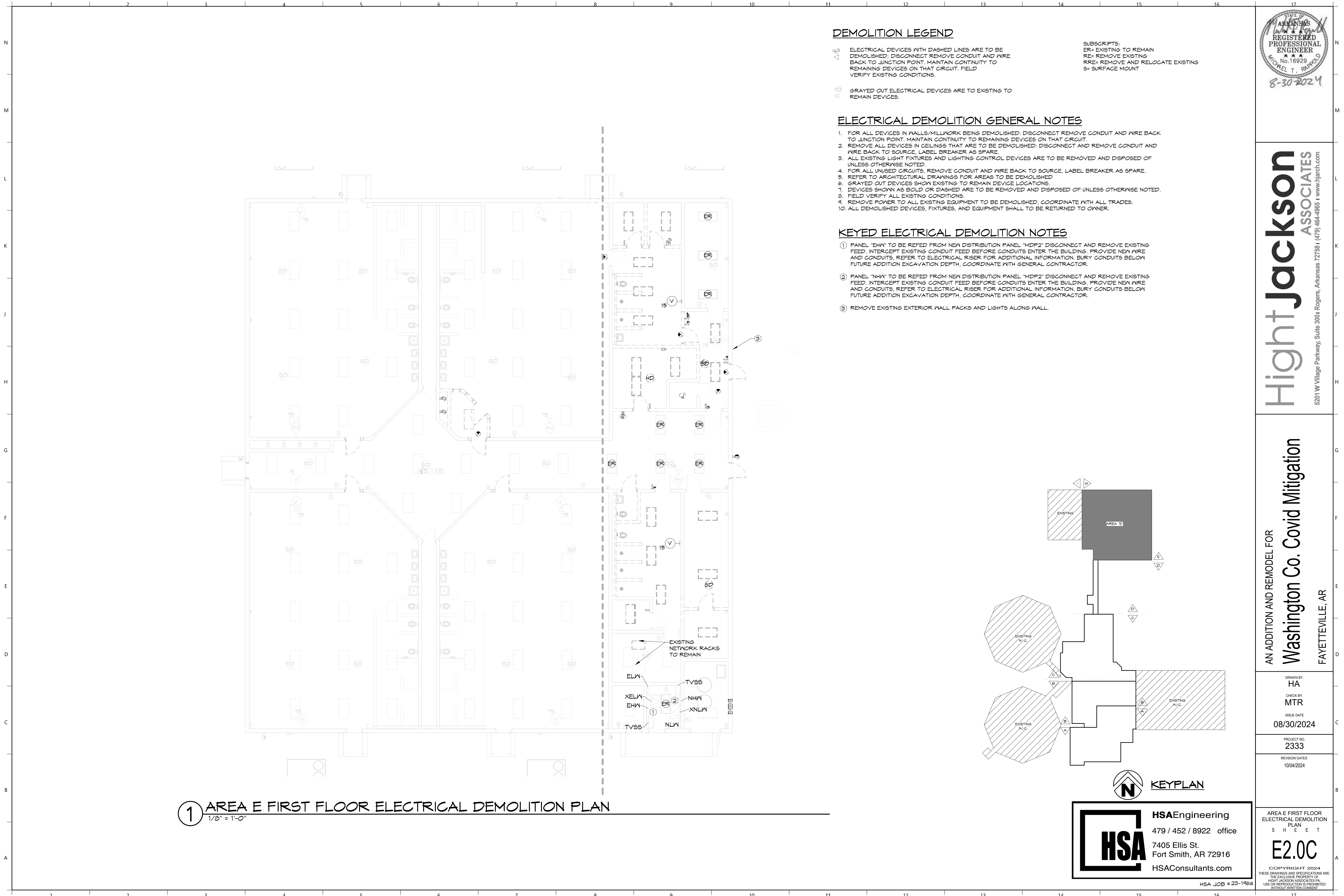
ISSUE DATE
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PROJECT NO.
2333

REVISION DATES
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AREA C FIRST FLOOR
ELECTRICAL DEMOLITION
PLAN
SHEET
E2.0B

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1 AREA E FIRST FLOOR ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"

DEMOLITION LEGEND

- ELECTRICAL DEVICES WITH DASHED LINES ARE TO BE DEMOLISHED; DISCONNECT REMOVE CONDUIT AND WIRE BACK TO JUNCTION POINT, MAINTAIN CONTINUITY TO REMAINING DEVICES ON THAT CIRCUIT. FIELD VERIFY EXISTING CONDITIONS.
- GRAYED OUT ELECTRICAL DEVICES ARE TO EXISTING TO REMAIN DEVICES.

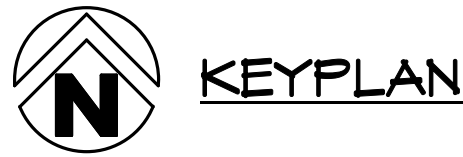
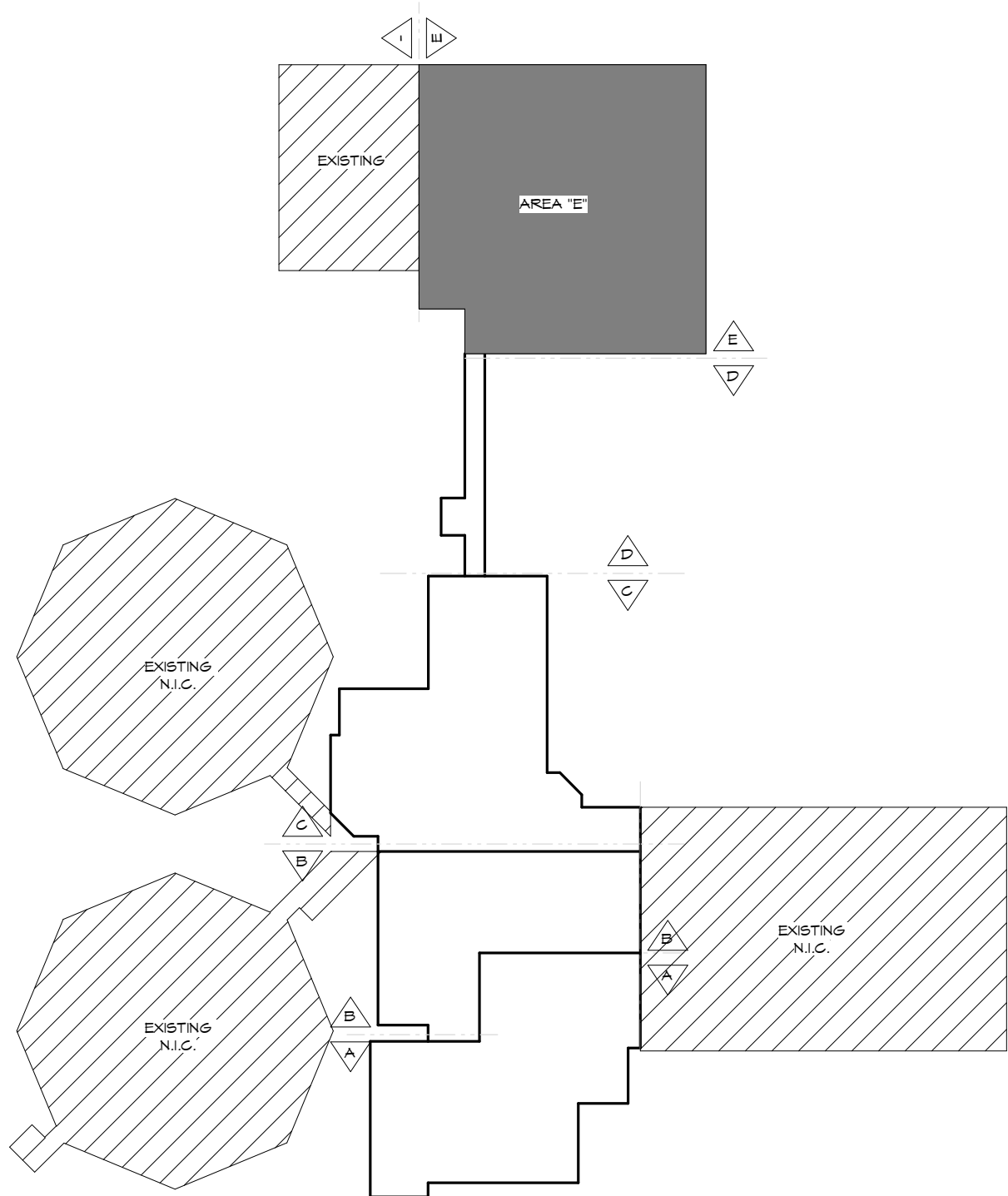
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ELECTRICAL DEMOLITION GENERAL NOTES

- FOR ALL DEVICES IN WALLS/MILLWORK BEING DEMOLISHED; DISCONNECT REMOVE CONDUIT AND WIRE BACK TO JUNCTION POINT, MAINTAIN CONTINUITY TO REMAINING DEVICES ON THAT CIRCUIT.
- REMOVE ALL DEVICES IN CEILINGS THAT ARE TO BE DEMOLISHED; DISCONNECT AND REMOVE CONDUIT AND WIRE BACK TO SOURCE, LABEL BREAKER AS SPARE.
- ALL EXISTING LIGHT FIXTURES AND LIGHTING CONTROL DEVICES ARE TO BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED.
- FOR ALL UNUSED CIRCUITS, REMOVE CONDUIT AND WIRE BACK TO SOURCE, LABEL BREAKER AS SPARE.
- REFER TO ARCHITECTURAL DRAWINGS FOR AREAS TO BE DEMOLISHED.
- GRAYED OUT DEVICES SHOW EXISTING TO REMAIN DEVICE LOCATIONS.
- DEVICES SHOWN AS BOLD OR DASHED ARE TO BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED.
- FIELD VERIFY ALL EXISTING CONDITIONS.
- REMOVE POWER TO ALL EXISTING EQUIPMENT TO BE DEMOLISHED, COORDINATE WITH ALL TRADES.
- ALL DEMOLISHED DEVICES, FIXTURES, AND EQUIPMENT SHALL TO BE RETURNED TO OWNER.

KEYED ELECTRICAL DEMOLITION NOTES

- PANEL "EHW" TO BE REFEED FROM NEW DISTRIBUTION PANEL "MDP2" DISCONNECT AND REMOVE EXISTING FEED, INTERCEPT EXISTING CONDUIT FEED BEFORE CONDUITS ENTER THE BUILDING, PROVIDE NEW WIRE AND CONDUITS, REFER TO ELECTRICAL RISER FOR ADDITIONAL INFORMATION. BURY CONDUITS BELOW FUTURE ADDITION EXCAVATION DEPTH, COORDINATE WITH GENERAL CONTRACTOR.
- PANEL "NHX" TO BE REFEED FROM NEW DISTRIBUTION PANEL "MDP2" DISCONNECT AND REMOVE EXISTING FEED, INTERCEPT EXISTING CONDUIT FEED BEFORE CONDUITS ENTER THE BUILDING, PROVIDE NEW WIRE AND CONDUITS, REFER TO ELECTRICAL RISER FOR ADDITIONAL INFORMATION. BURY CONDUITS BELOW FUTURE ADDITION EXCAVATION DEPTH, COORDINATE WITH GENERAL CONTRACTOR.
- REMOVE EXISTING EXTERIOR WALL PACKS AND LIGHTS ALONG WALL.



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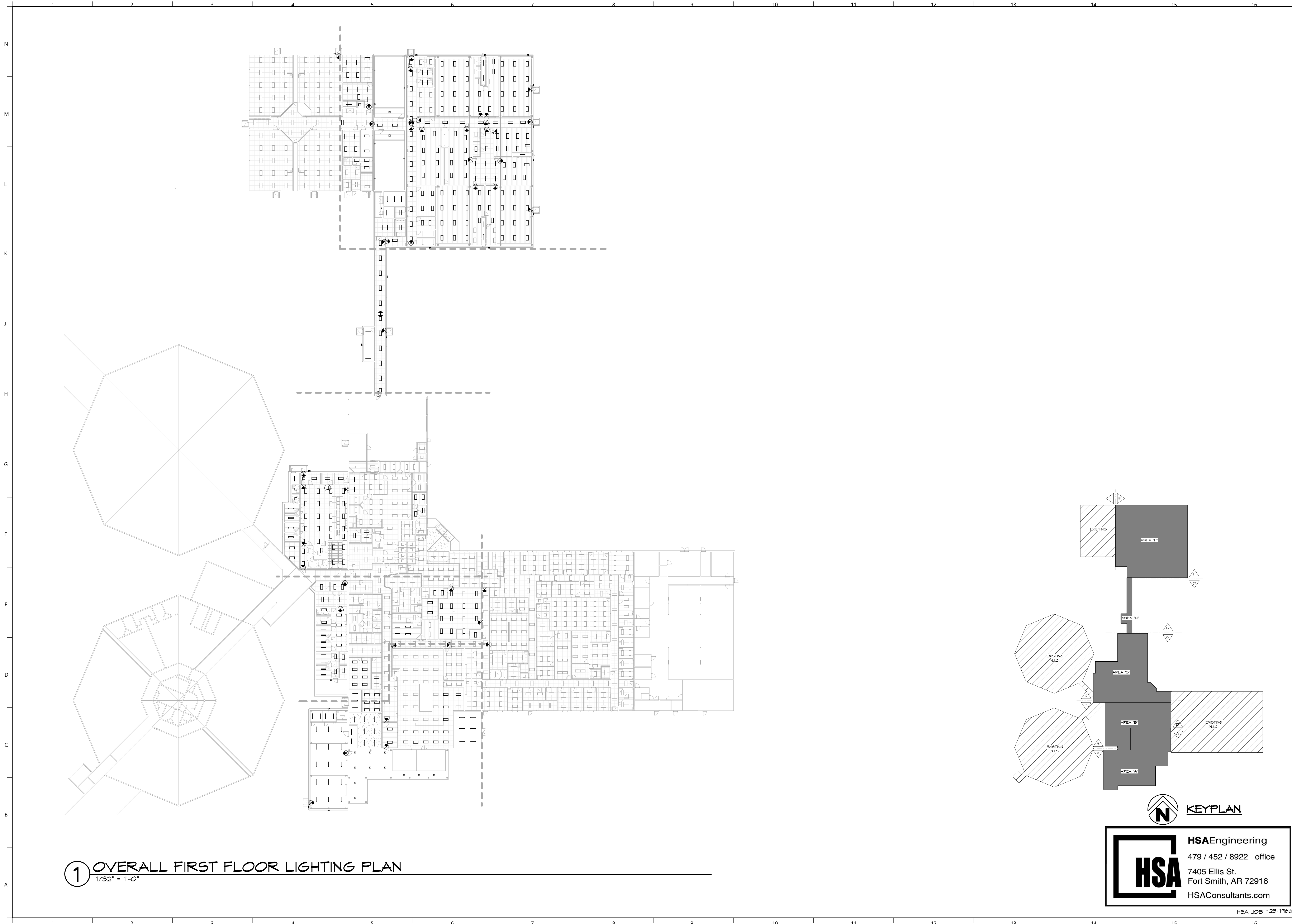
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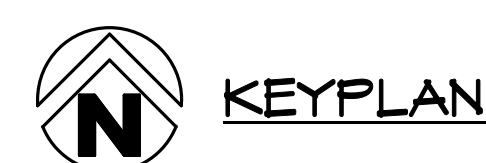
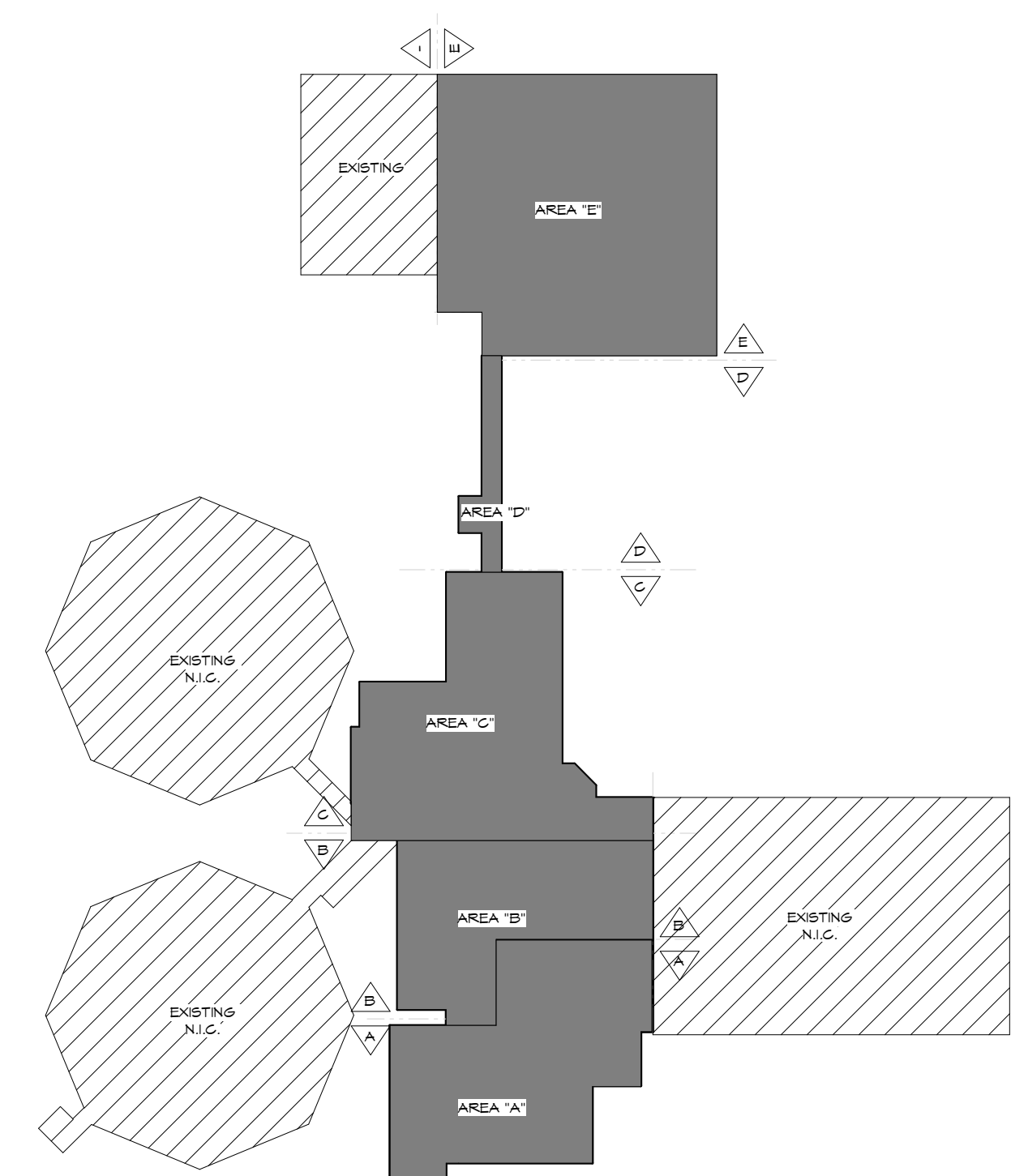
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 16929
MICHAEL T. RAPPOLO
8-30-2024

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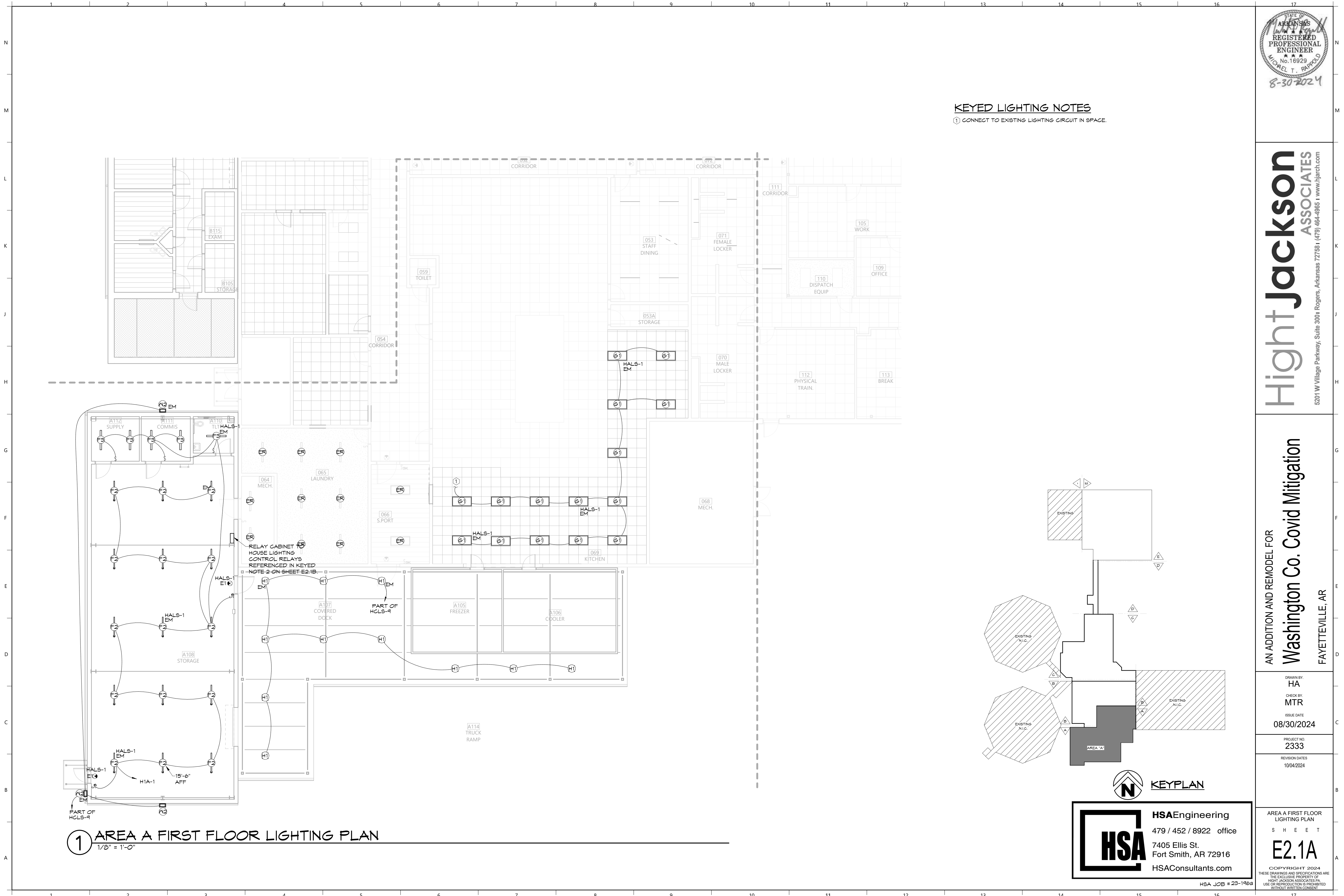
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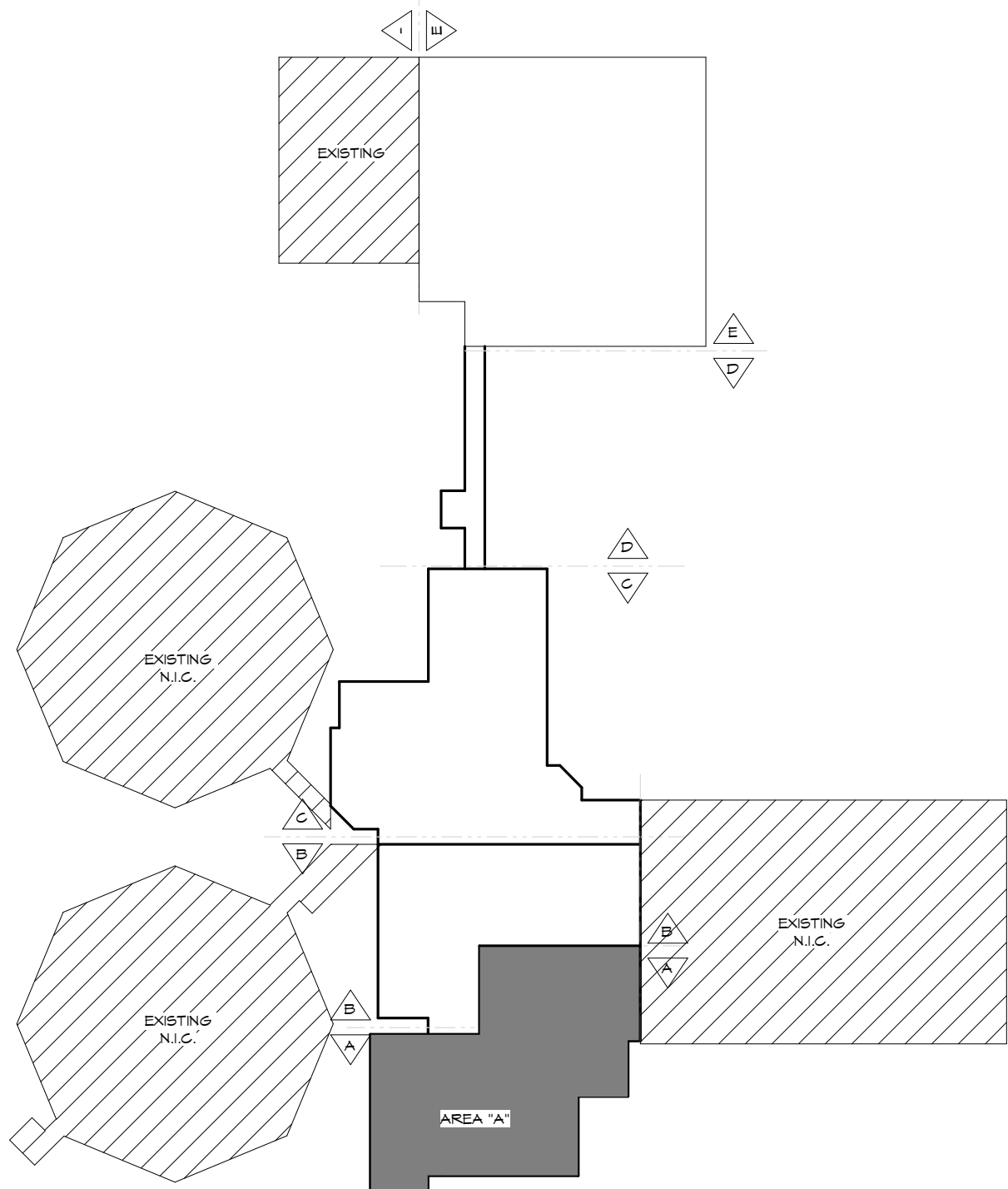
OVERALL LIGHTING PLAN
SHEET
E2.1
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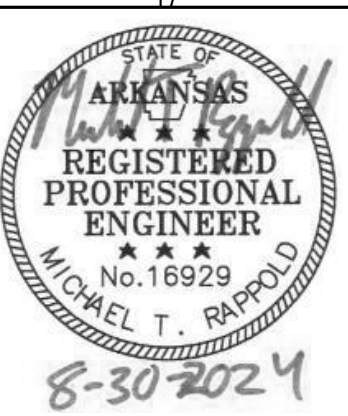
KEYED LIGHTING NOTES
① CONNECT TO EXISTING LIGHTING CIRCUIT IN SPACE.





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1 AREA A FIRST FLOOR LIGHTING PLAN
1/8" = 1'-0"



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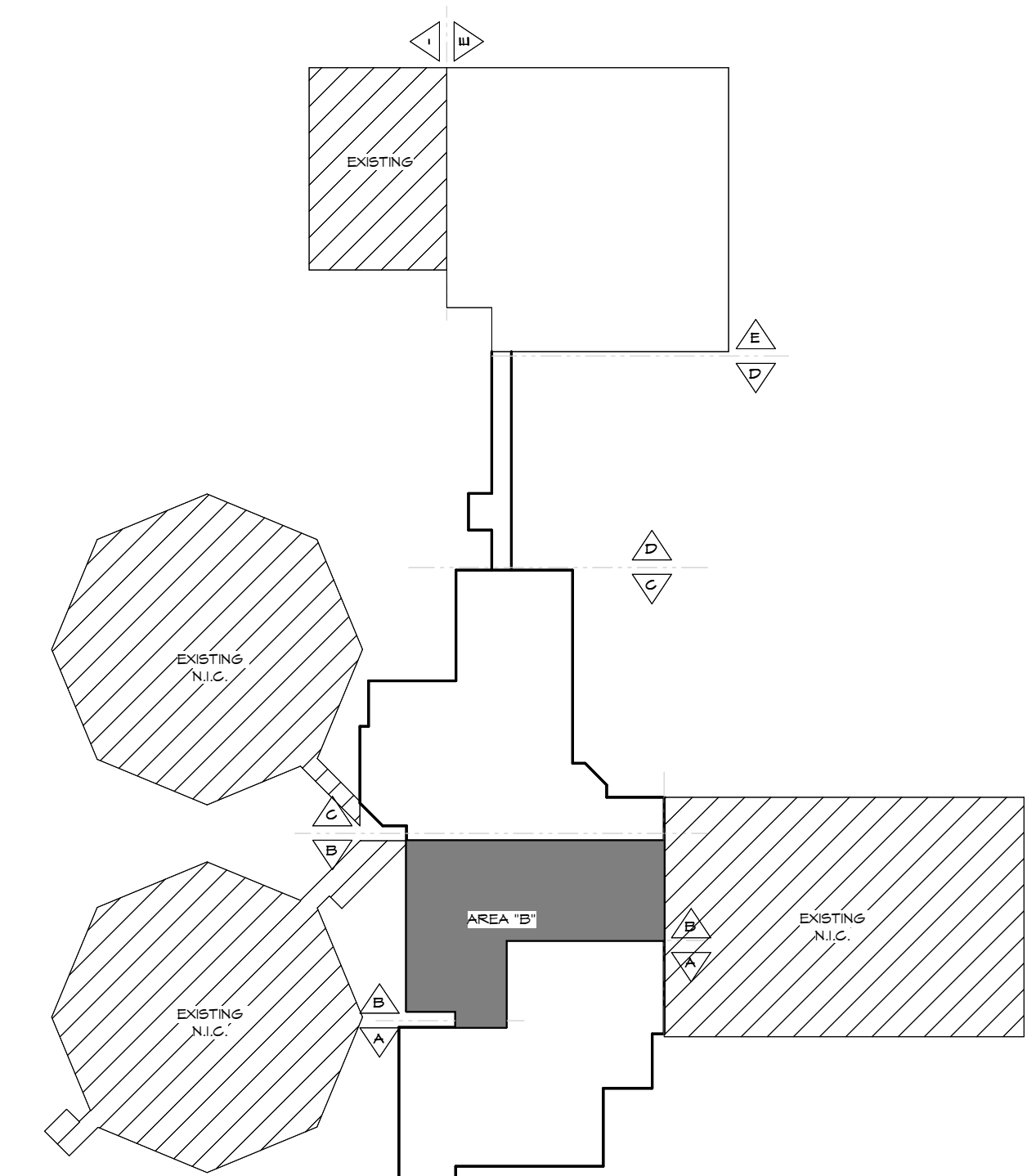
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AREA A FIRST FLOOR
LIGHTING PLAN
SHEET
E2.1A

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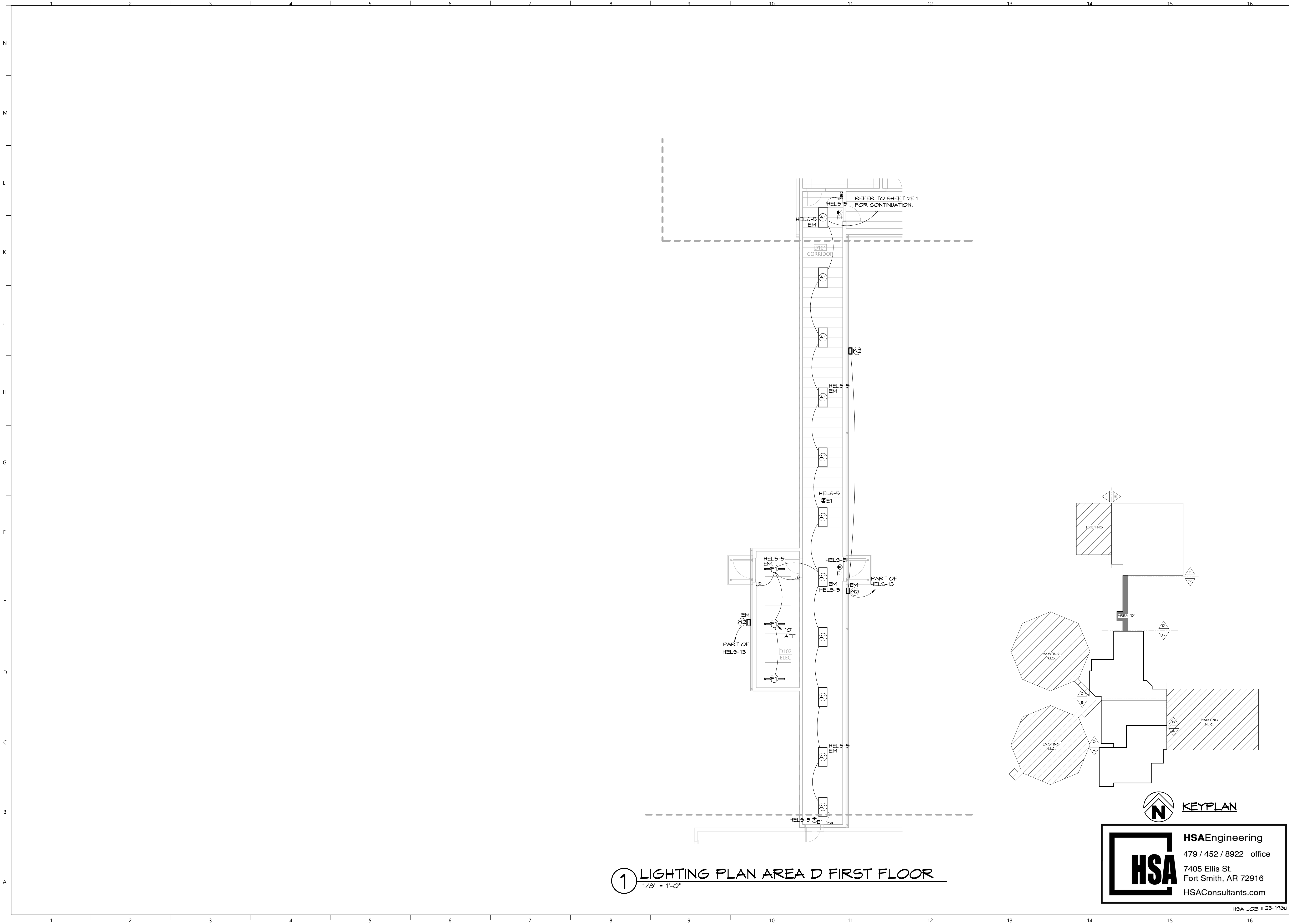


② "GENERAL LIGHTING" ZONE LIGHTS ARE TO BE CONTROLLED BY SECURITY SYSTEM LOCATED AT SECURITY CONTROL STATION. PROVIDE RELAY WITH AUXILIARY CONTACTS FOR CONTROL. COORDINATE WITH SECURITY CONTRACTOR. COORDINATE EXACT LOCATION OF SWITCHES WITHIN CONTROL STATION WITH OWNER/ARCHITECT PRIOR TO ROUGH IN.

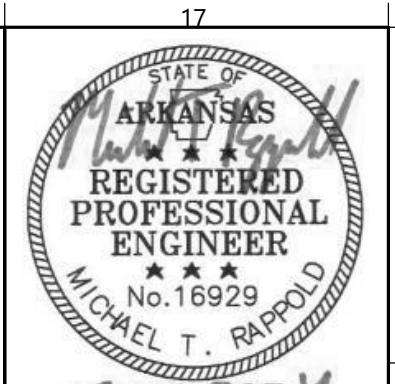


1 AREA B FIRST FLOOR LIGHTING PLAN
1/8" = 1'-0"

HSA JOB # 23-196a



1 LIGHTING PLAN AREA D FIRST FLOOR
1/8" = 1'-0"



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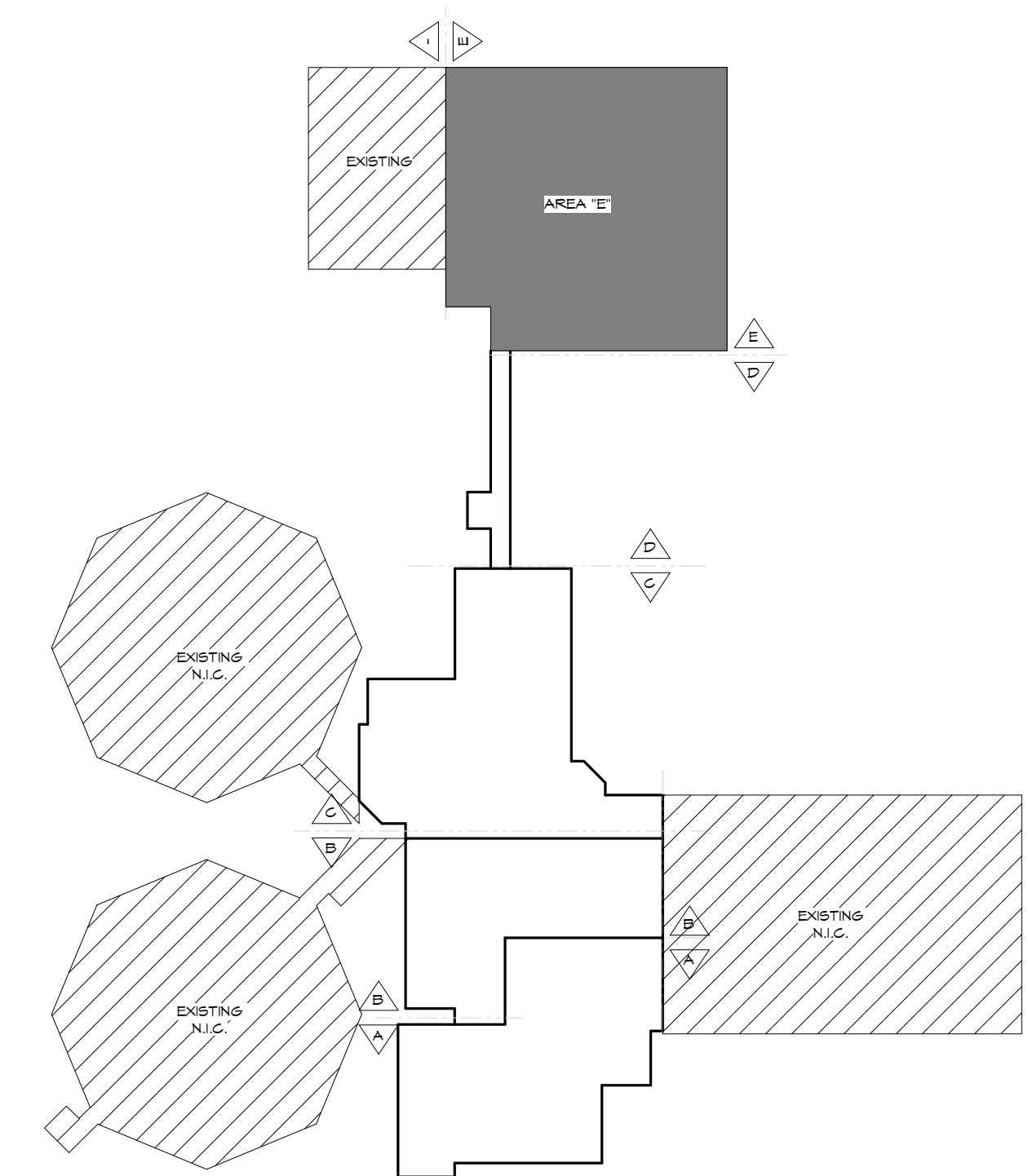
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KEYED LIGHTING NOTES

1. "GENERAL LIGHTING" ZONE LIGHTS ARE TO BE CONTROLLED BY SECURITY SYSTEM LOCATED AT SECURITY CONTROL STATION. PROVIDE RELAY WITH AUXILIARY CONTACTS FOR CONTROL. COORDINATE WITH SECURITY CONTRACTOR. COORDINATE EXACT LOCATION OF SWITCHES WITHIN CONTROL STATION WITH OWNER/ARCHITECT PRIOR TO ROUGH IN.
2. "NIGHT LIGHT" ZONE LIGHTS ARE TO BE CONTROLLED BY SECURITY SYSTEM LOCATED AT SECURITY CONTROL STATION. PROVIDE RELAY WITH AUXILIARY CONTACTS FOR CONTROL. COORDINATE WITH SECURITY CONTRACTOR. COORDINATE EXACT LOCATION OF SWITCHES WITHIN CONTROL STATION WITH OWNER/ARCHITECT PRIOR TO ROUGH IN.
3. "RESTROOM LIGHTS" ZONE LIGHTS ARE TO BE CONTROLLED BY SECURITY SYSTEM LOCATED AT SECURITY CONTROL STATION. PROVIDE RELAY WITH AUXILIARY CONTACTS FOR CONTROL. COORDINATE WITH SECURITY CONTRACTOR. COORDINATE EXACT LOCATION OF SWITCHES WITHIN CONTROL STATION WITH OWNER/ARCHITECT PRIOR TO ROUGH IN.
4. CONNECT TO NEAREST EXISTING LIGHTING CIRCUIT.
5. RELAY CABINET TO HOUSE LIGHTING CONTROL RELAYS REFERENCED IN KEYED NOTES 1,2,3.

DEDUCT ALTERNATE #2:
REMOVE ALL FIXTURE AND DEVICES IN OUTLINED
AREA. ONLY ROUGH-IN TO BE PROVIDED.

DEDUCTIVE ALTERNATE #1:
SECURITY CEILINGS IN CELL AREAS ON THIS SHEET ARE
TO BE CHANGED TO ACT. CHANGE 2X4 LIGHT
FIXTURES IN THESE ROOMS TO LAY-IN TYPE FIXTURES
"KENALL" MODEL NUMBER "RMCD-4-XX-1-6TL40K-DCC-27T-4/SYM-1"
THIS IS TO INCLUDE ROOMS E107, E108, E114, E116, E120, E122, E126, E124



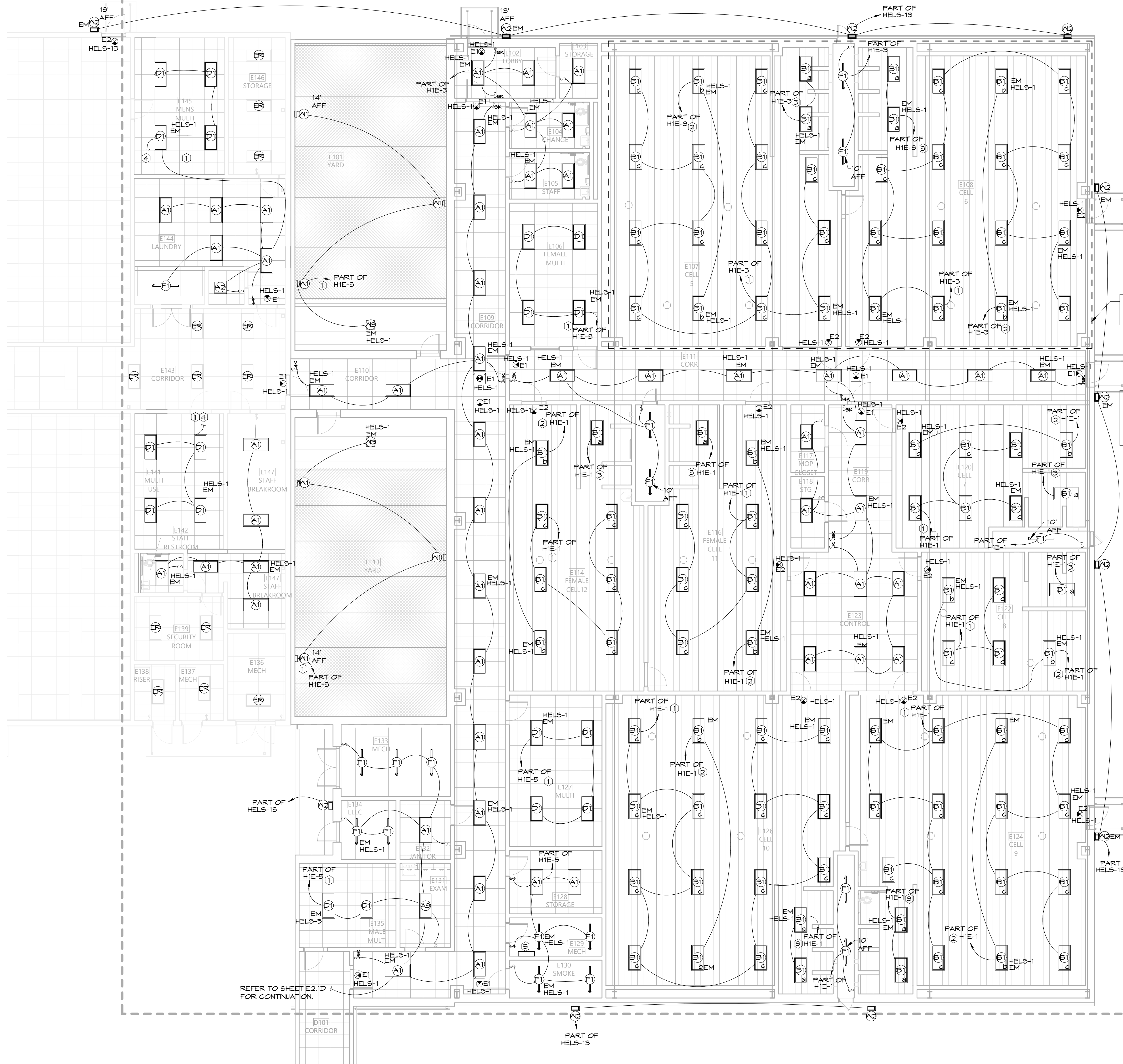
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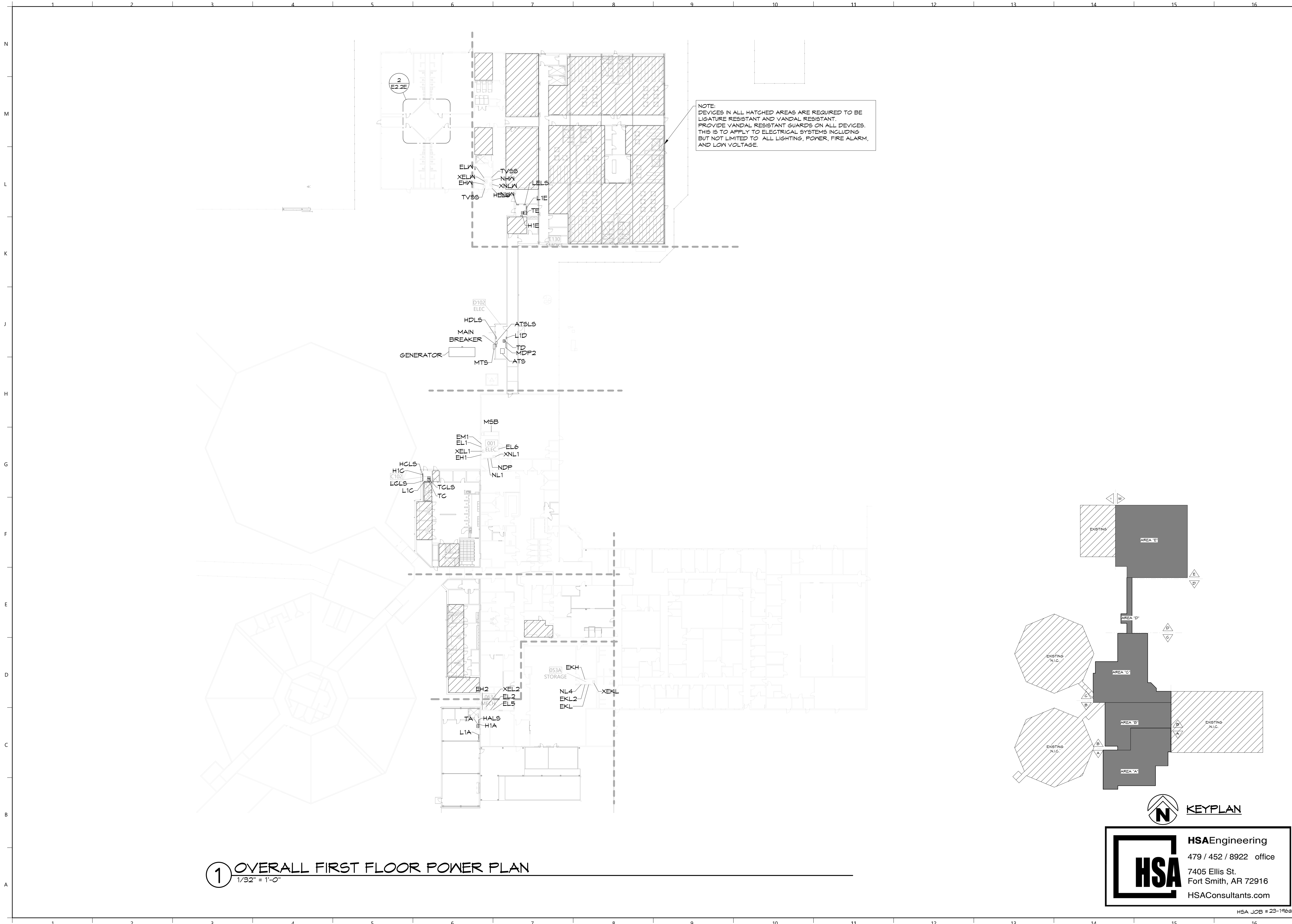


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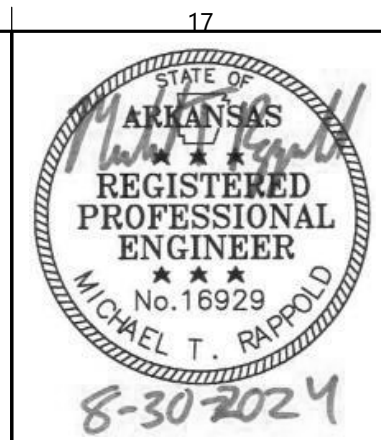
1 AREA E FIRST FLOOR LIGHTING PLAN

1/8" = 1'-0"





1 OVERALL FIRST FLOOR POWER PLAN
1/32" = 1'-0"



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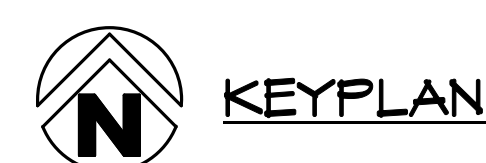
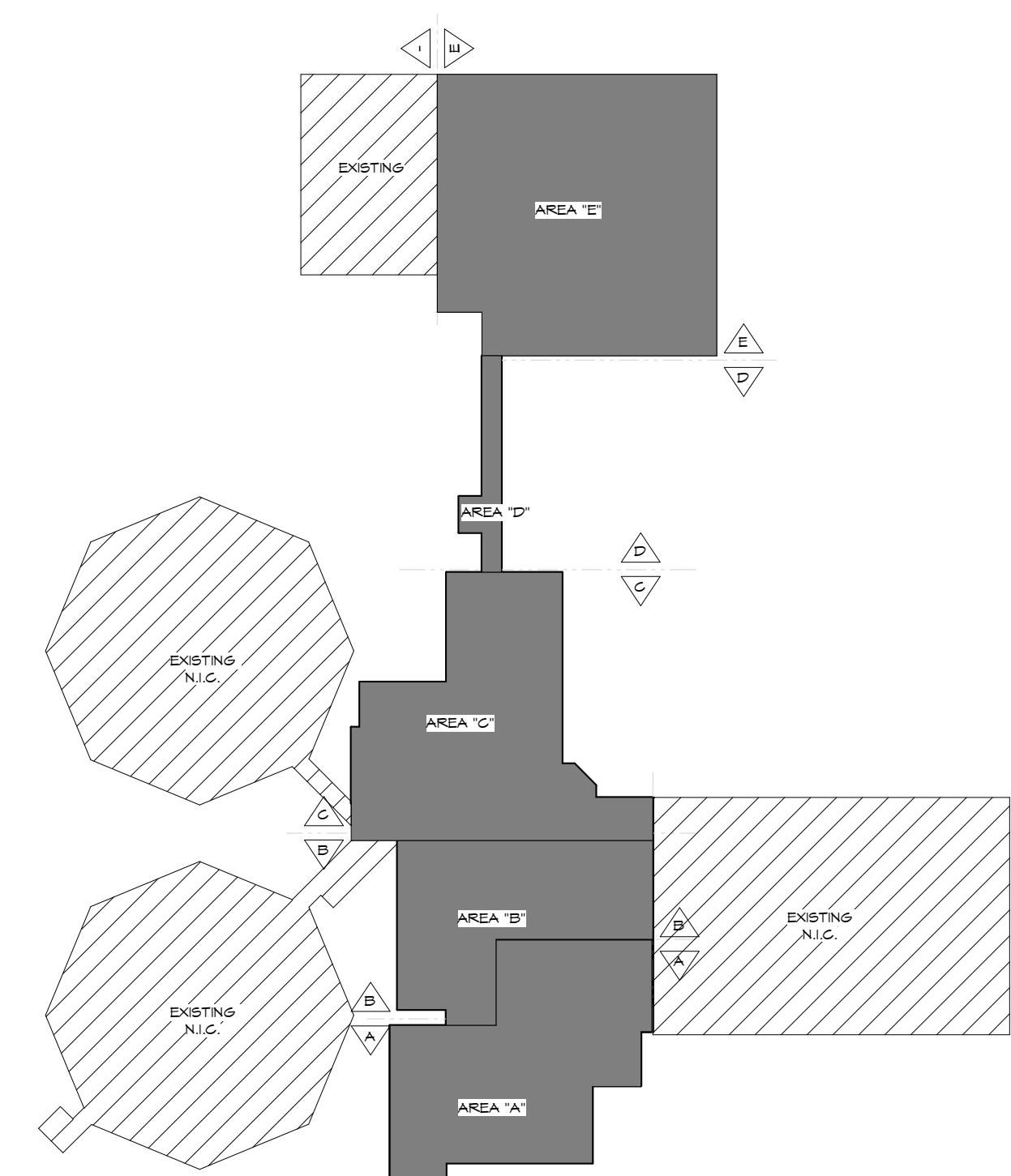
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OVERALL POWER PLAN

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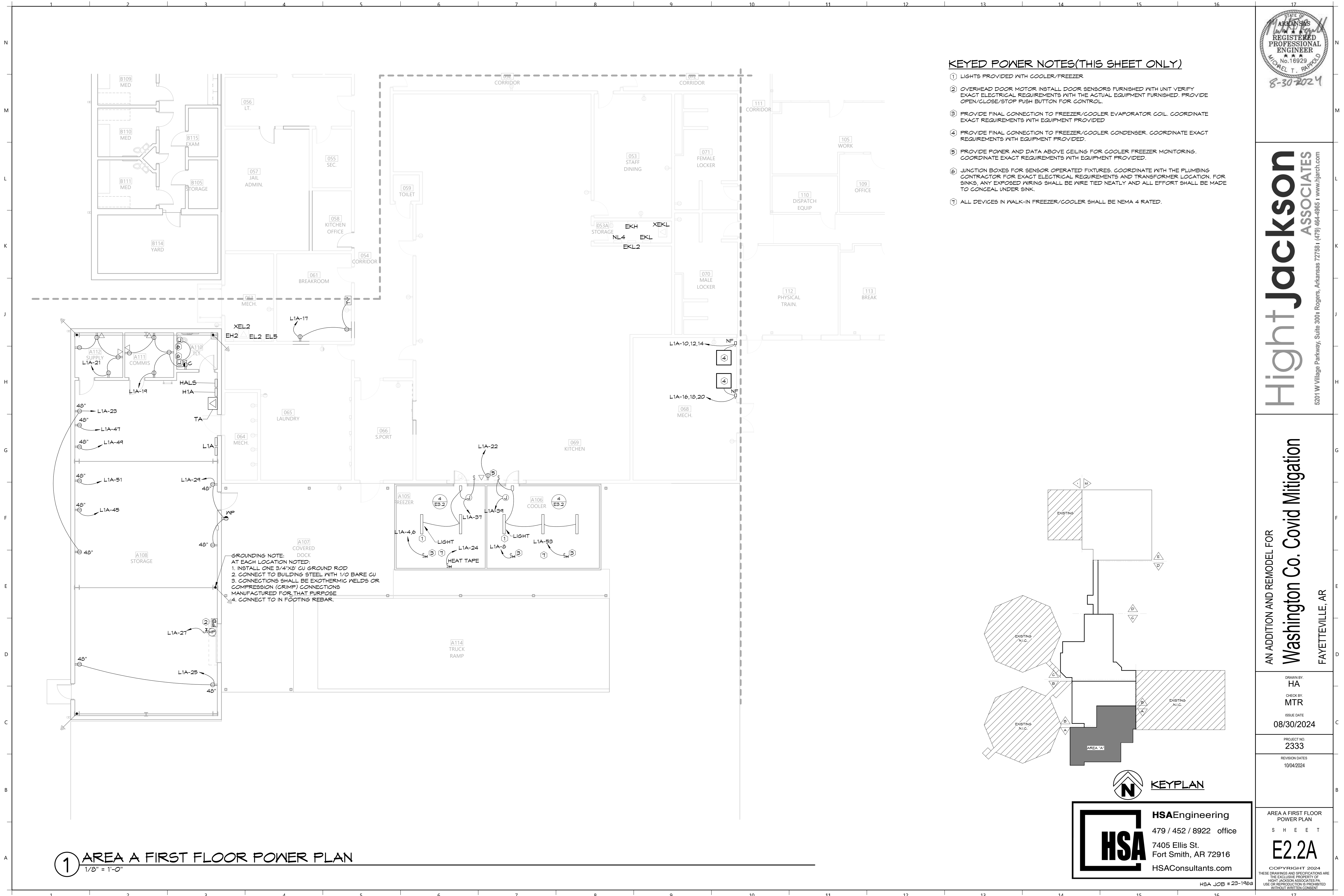
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1 AREA A FIRST FLOOR POWER PLAN
1/8" = 1'-0"

KEYED POWER NOTES (THIS SHEET ONLY)

- 1 LIGHTS PROVIDED WITH COOLER/FREEZER
- 2 OVERHEAD DOOR MOTOR INSTALL DOOR SENSORS FURNISHED WITH UNIT VERIFY EXACT ELECTRICAL REQUIREMENTS WITH THE ACTUAL EQUIPMENT FURNISHED. PROVIDE OPEN/CLOSE/STOP PUSH BUTTON FOR CONTROL.
- 3 PROVIDE FINAL CONNECTION TO FREEZER/COOLER EVAPORATOR COIL. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED
- 4 PROVIDE FINAL CONNECTION TO FREEZER/COOLER CONDENSER. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED.
- 5 PROVIDE POWER AND DATA ABOVE CEILING FOR COOLER FREEZER MONITORING. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED.
- 6 JUNCTION BOXES FOR SENSOR OPERATED FIXTURES. COORDINATE WITH THE PLUMBING CONTRACTOR FOR EXACT ELECTRICAL REQUIREMENTS AND TRANSFORMER LOCATION. FOR SINKS, ANY EXPOSED WIRING SHALL BE WIRE TIED NEATLY AND ALL EFFORT SHALL BE MADE TO CONCEAL UNDER SINK.
- 7 ALL DEVICES IN WALK-IN FREEZER/COOLER SHALL BE NEMA 4 RATED.



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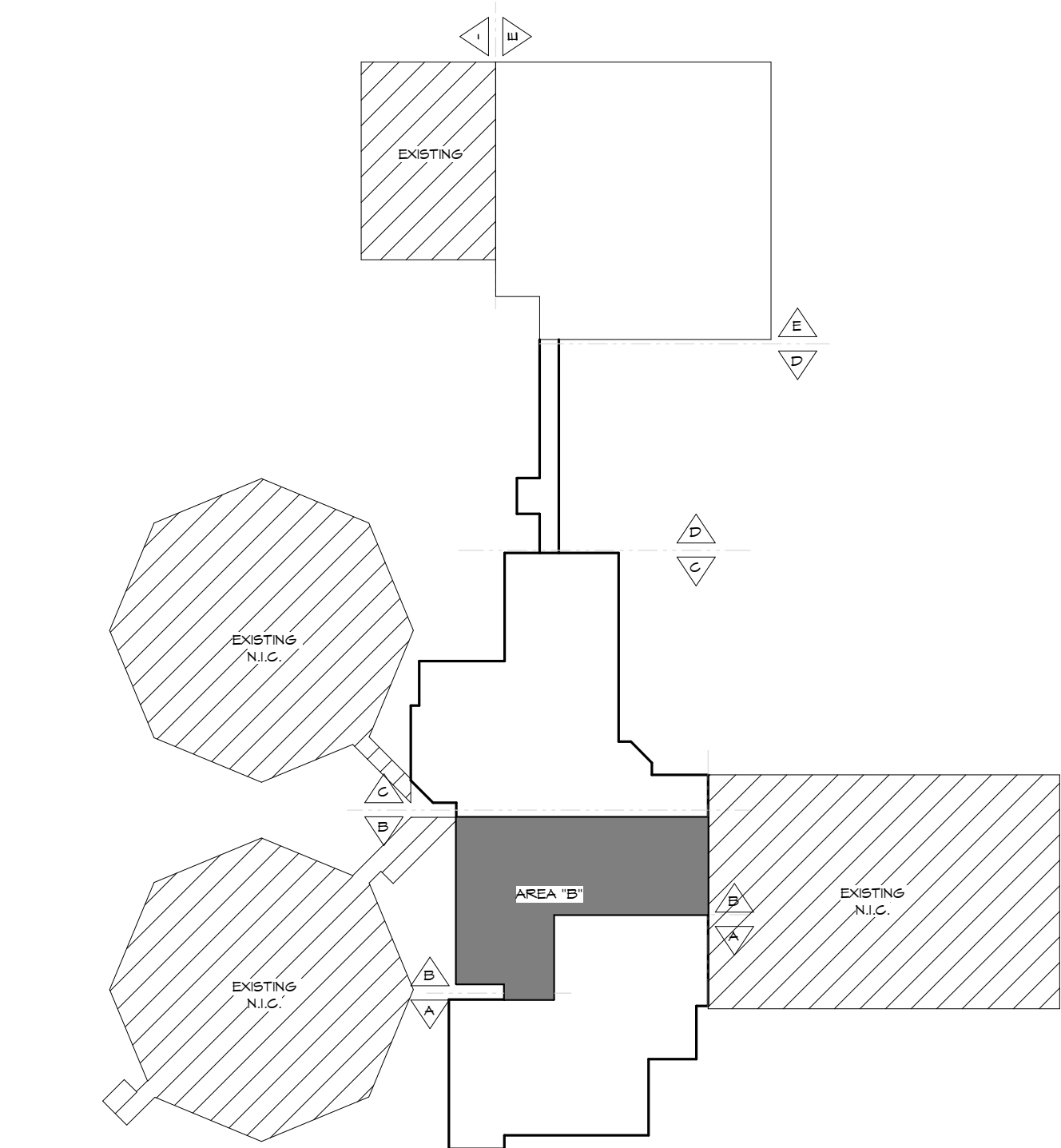
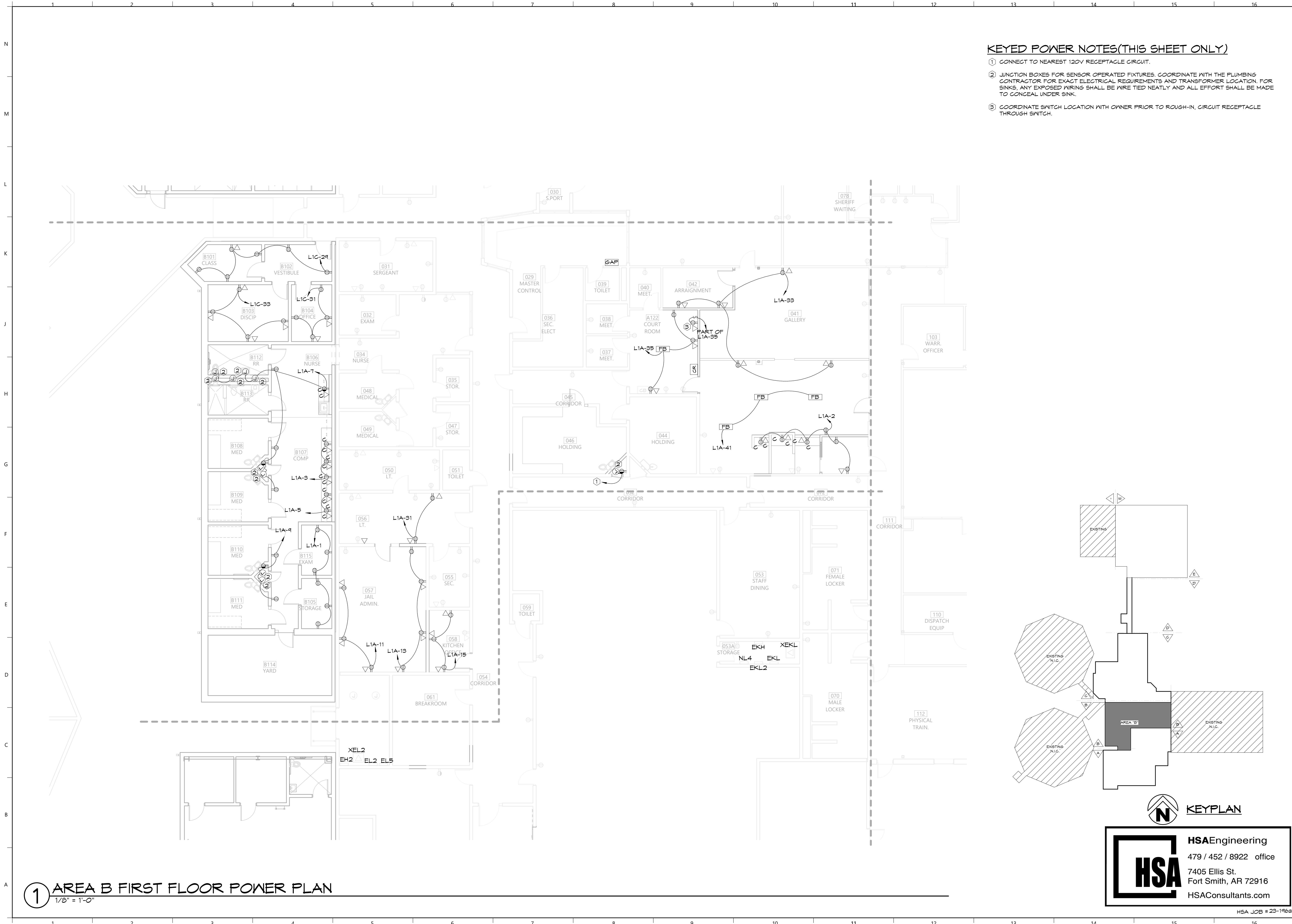
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AREA A FIRST FLOOR
POWER PLAN
SHEET

E2.2A

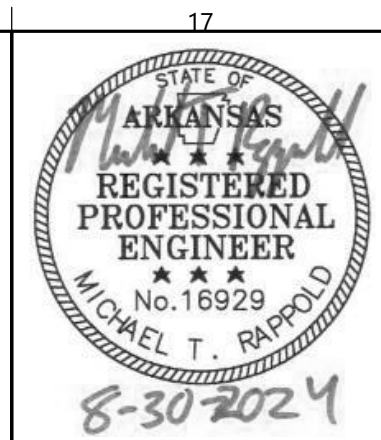
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KEYED POWER NOTES (THIS SHEET ONLY)

- ① CONNECT TO NEAREST 120V RECEPTACLE CIRCUIT.
- ② JUNCTION BOXES FOR SENSOR OPERATED FIXTURES. COORDINATE WITH THE PLUMBING CONTRACTOR FOR EXACT ELECTRICAL REQUIREMENTS AND TRANSFORMER LOCATION. FOR SINKS, ANY EXPOSED WIRING SHALL BE WIRE TIED NEATLY AND ALL EFFORT SHALL BE MADE TO CONCEAL UNDER SINK.
- ③ COORDINATE SWITCH LOCATION WITH OWNER PRIOR TO ROUGH-IN. CIRCUIT RECEPTACLE THROUGH SWITCH.



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AREA B FIRST FLOOR
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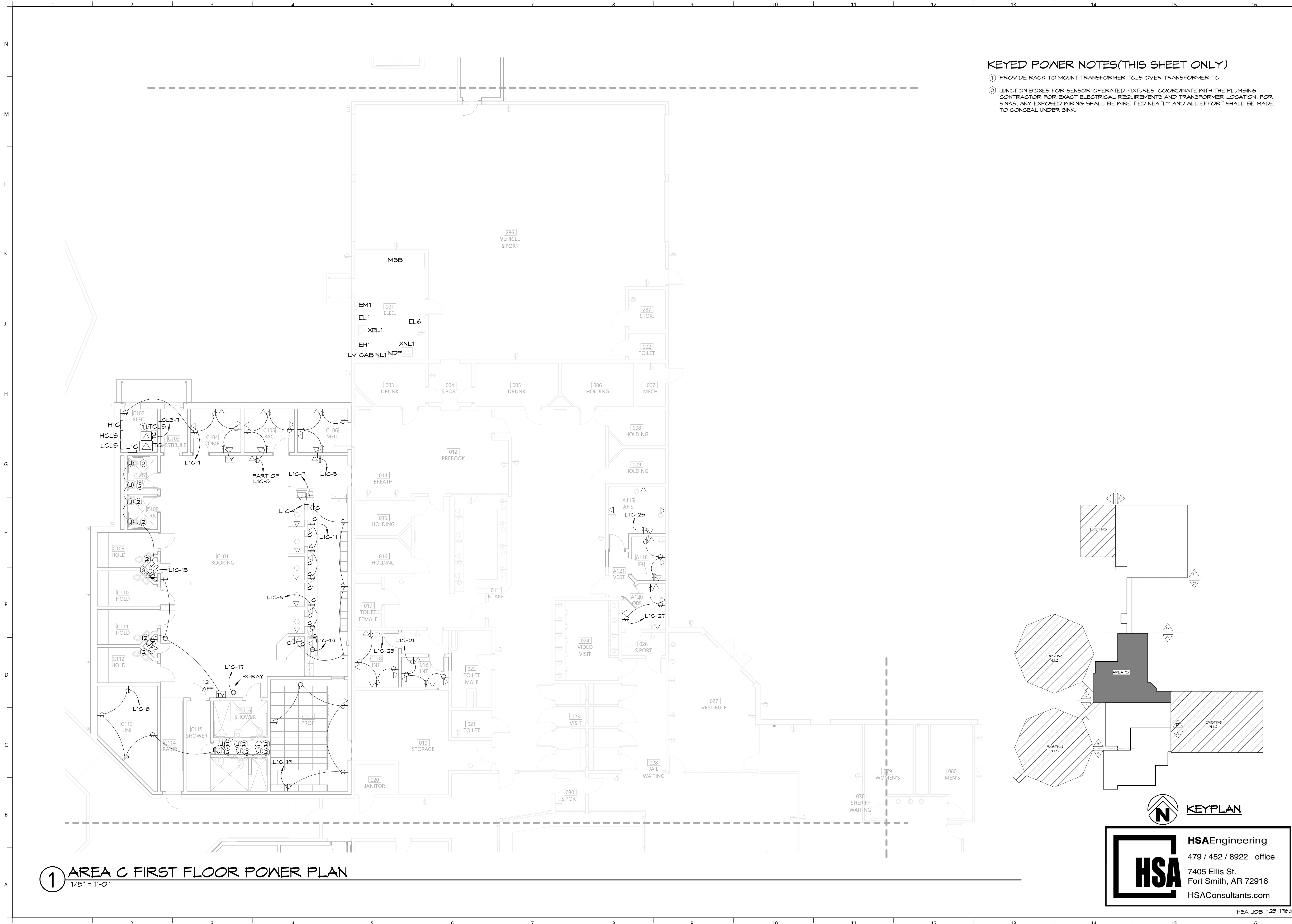
① AREA B FIRST FLOOR POWER PLAN
1/8" = 1'-0"



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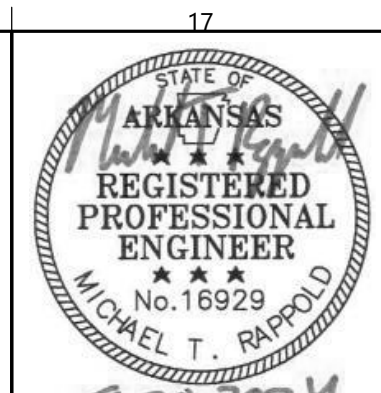
**KEYPLAN**

HSA JOB # 23-196a



KEYED POWER NOTES(THIS SHEET ONLY)

- 1 PROVIDE RACK TO MOUNT TRANSFORMER TOL5 OVER TRANSFORMER TC
- 2 JUNCTION BOXES FOR SENSOR OPERATED FIXTURES. COORDINATE WITH THE PLUMBING CONTRACTOR FOR EXACT ELECTRICAL REQUIREMENTS AND TRANSFORMER LOCATION. FOR SINKS, ANY EXPOSED WIRING SHALL BE WIRE TIED NEATLY AND ALL EFFORT SHALL BE MADE TO CONCEAL UNDER SINK.

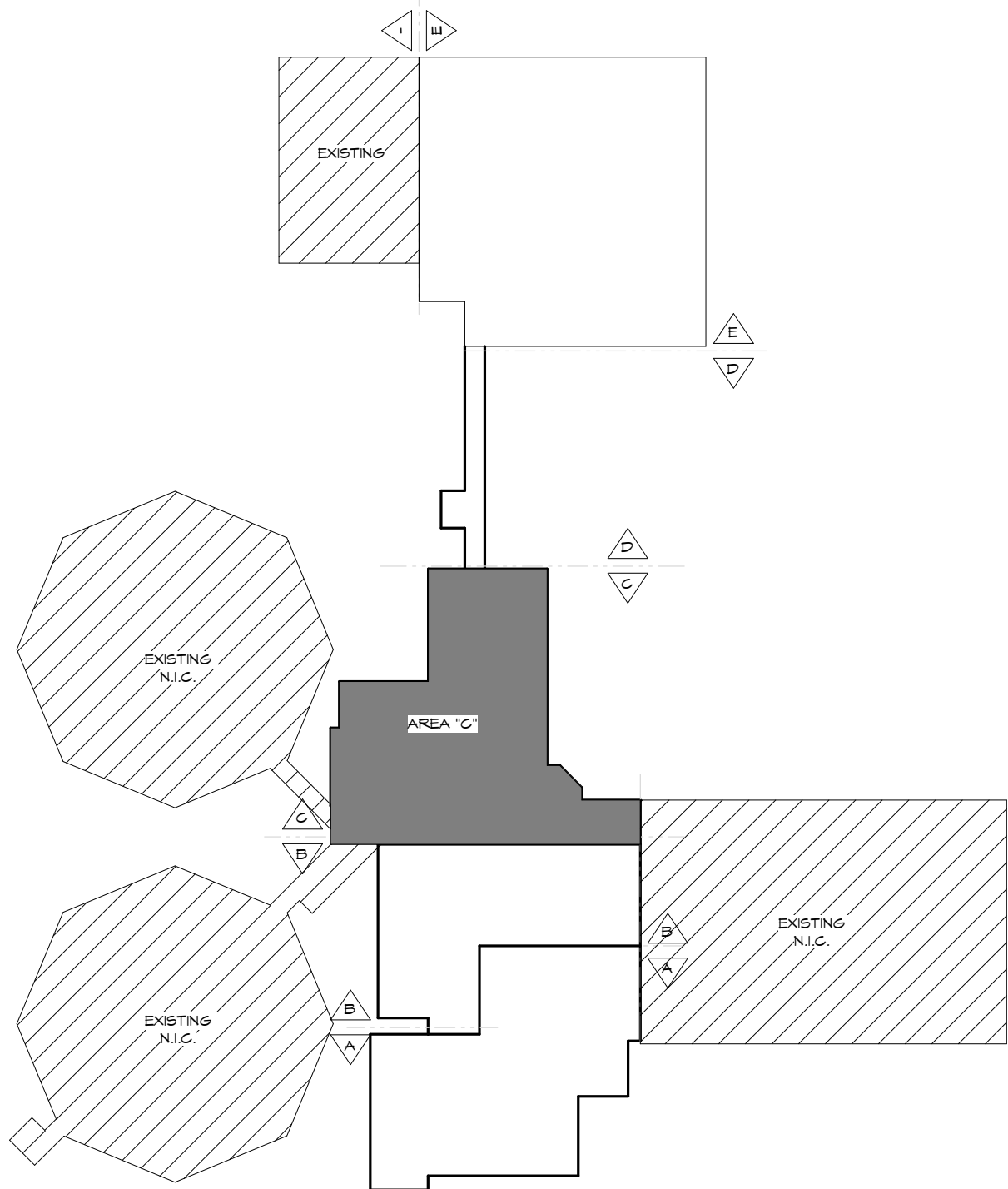


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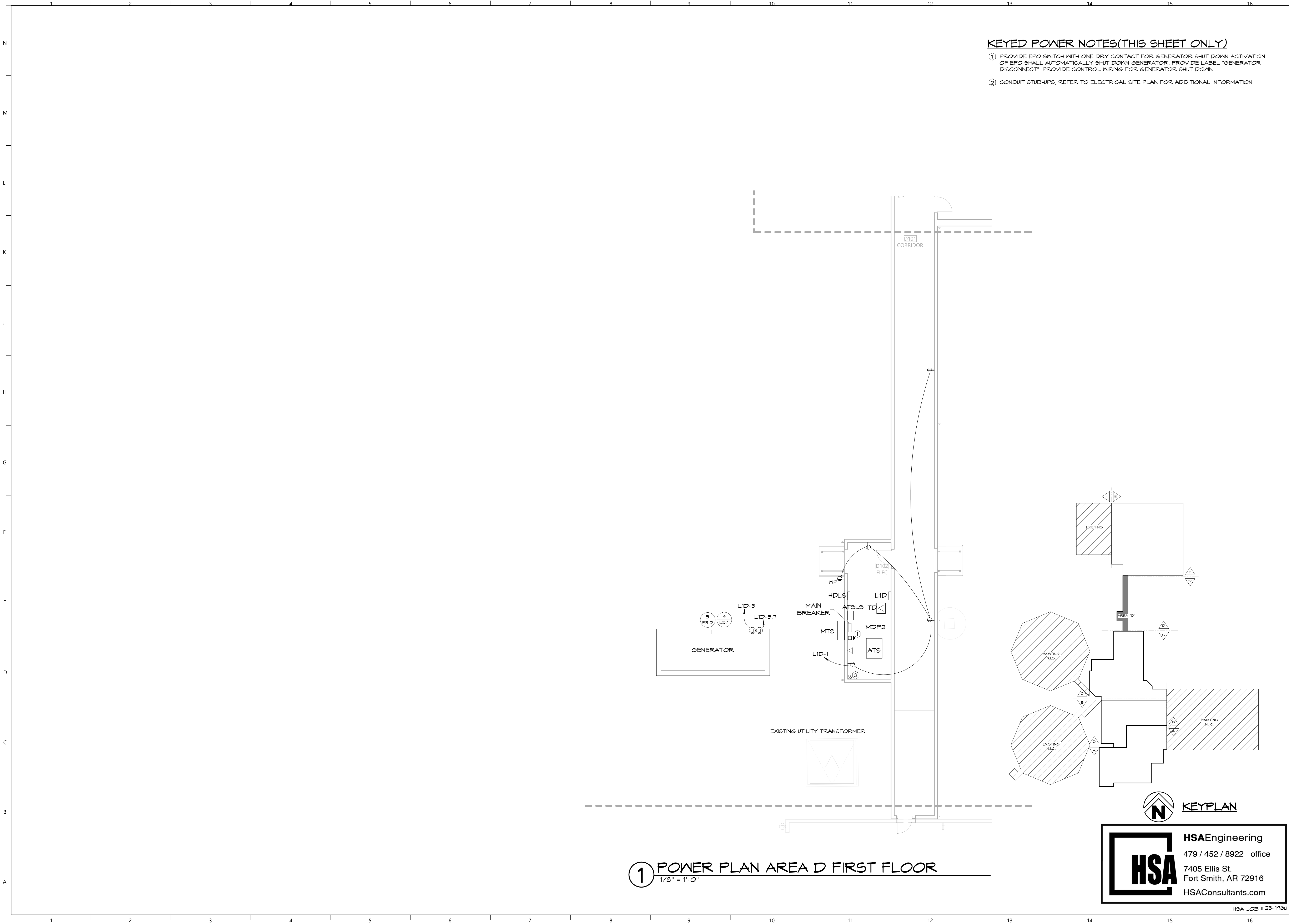
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AREA C FIRST FLOOR
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1 AREA C FIRST FLOOR POWER PLAN
1/8" = 1'-0"



KEYED POWER NOTES (THIS SHEET ONLY)

① PROVIDE EPO SWITCH WITH ONE DRY CONTACT FOR GENERATOR SHUT DOWN ACTIVATION OF EPO SHALL AUTOMATICALLY SHUT DOWN GENERATOR. PROVIDE LABEL "GENERATOR DISCONNECT". PROVIDE CONTROL WIRING FOR GENERATOR SHUT DOWN.

② CONDUIT STUB-UPS, REFER TO ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 16929
MICHAEL T. RAPPOLO
8-30-2024

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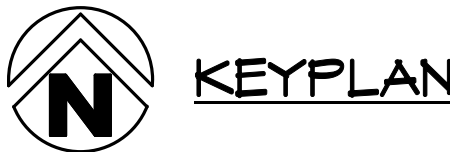
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1 POWER PLAN AREA D FIRST FLOOR
1/8" = 1'-0"

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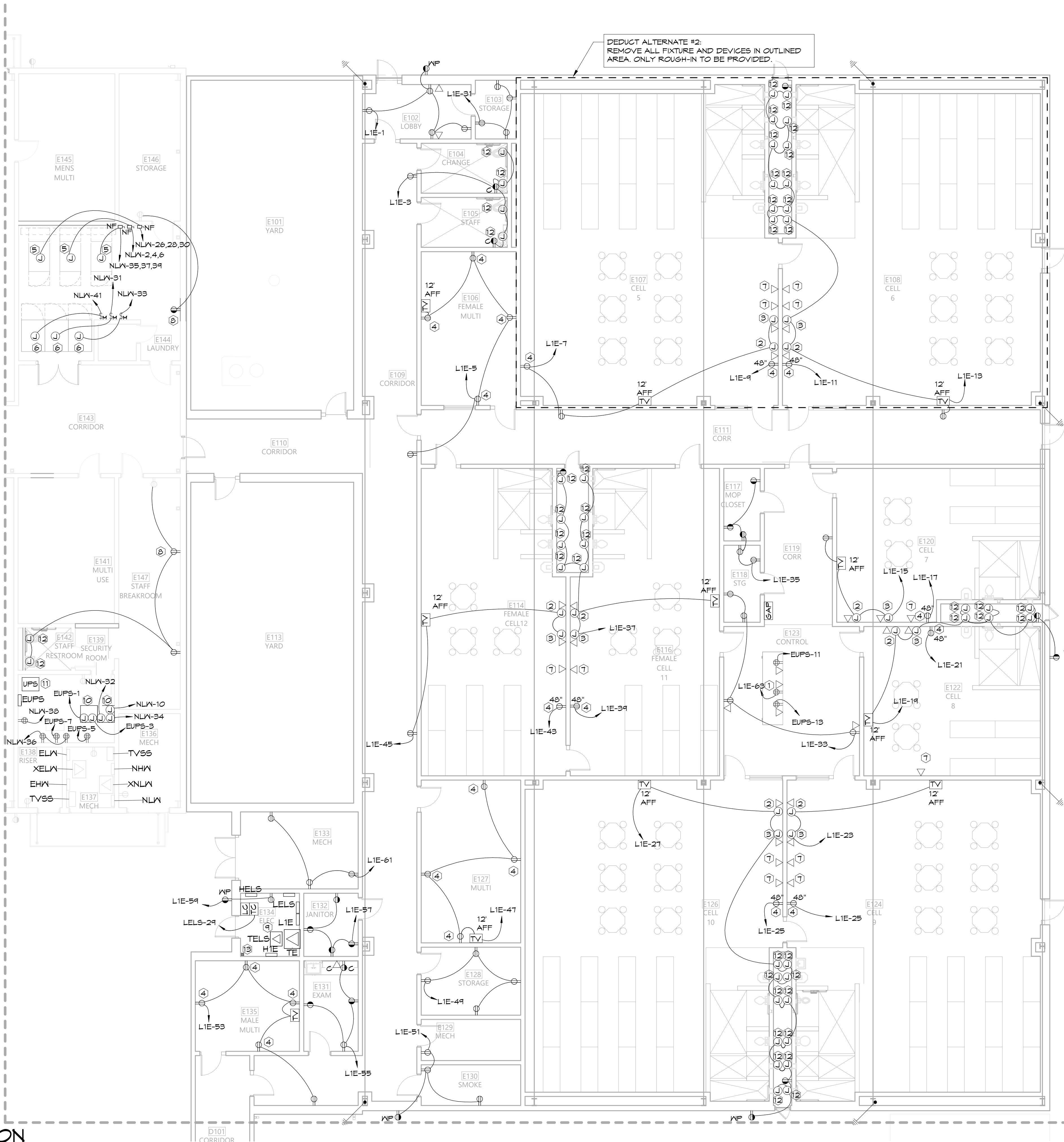


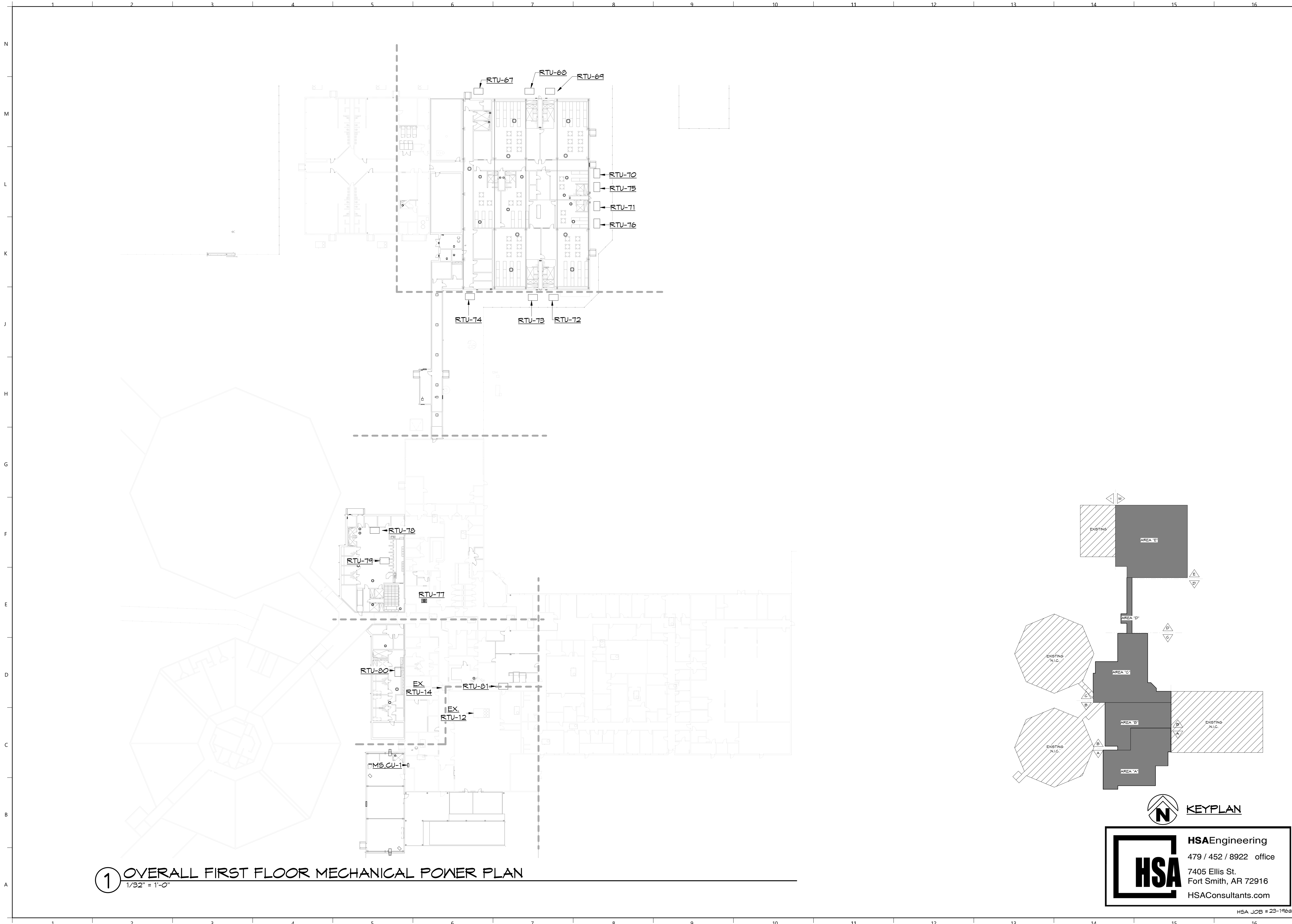
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KEYED POWER NOTES (THIS SHEET ONLY)

- STUB CONDUITS IN ISLAND FROM BELOW SLAB.
- PROVIDE POWER AND DATA CONNECTIONS AT INMATE VIDEO KIOSK, COORDINATE REQUIREMENTS WITH EQUIPMENT PROVIDED.
- PROVIDE POWER AND DATA CONNECTIONS AT INMATE CHARGING STATION, COORDINATE REQUIREMENTS WITH EQUIPMENT PROVIDED.
- PROVIDE STAINLESS STEEL LOCKABLE COVER.
- PROVIDE FINAL CONNECTION TO CLOTHES WASHER, COORDINATE REQUIREMENTS WITH EQUIPMENT PROVIDED.
- PROVIDE FINAL CONNECTION TO CLOTHES DRYER, COORDINATE REQUIREMENTS WITH EQUIPMENT PROVIDED.
- PROVIDE DATA OUTLET FOR INMATE PHONE, COORDINATE REQUIREMENTS WITH EQUIPMENT PROVIDED.
- CIRCUIT TO EXISTING 120V RECEPTACLE CIRCUIT.
- RACKMOUNT TRANSFORMER TELS OVER TRANSFORMER TE
- EQUIPMENT RACK FOR SECURITY EQUIPMENT, REFER TO ELECTRONIC SECURITY DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE AND INSTALL UPS PER ELECTRONIC SECURITY DRAWINGS, REFER TO SECURITY DRAWINGS FOR ADDITIONAL INFORMATION.
- JUNCTION BOXES FOR SENSOR OPERATED FIXTURES. COORDINATE WITH THE PLUMBING CONTRACTOR FOR EXACT ELECTRICAL REQUIREMENTS AND TRANSFORMER LOCATION. FOR SINKS, ANY EXPOSED WIRING SHALL BE WIRE TIED NEATLY AND ALL EFFORT SHALL BE MADE TO CONCEAL UNDER SINK.
- CONDUIT STUB-UPS, REFER TO ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.

DEDUCT ALTERNATE #2:
REMOVE ALL FIXTURE AND DEVICES IN OUTLINED
AREA. ONLY ROUGH-IN TO BE PROVIDED.





STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 16929
MICHAEL T. RAPPOLO
8-30-2024

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OVERALL MECHANICAL
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E2.3

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1 OVERALL FIRST FLOOR MECHANICAL POWER PLAN
1/32" = 1'-0"

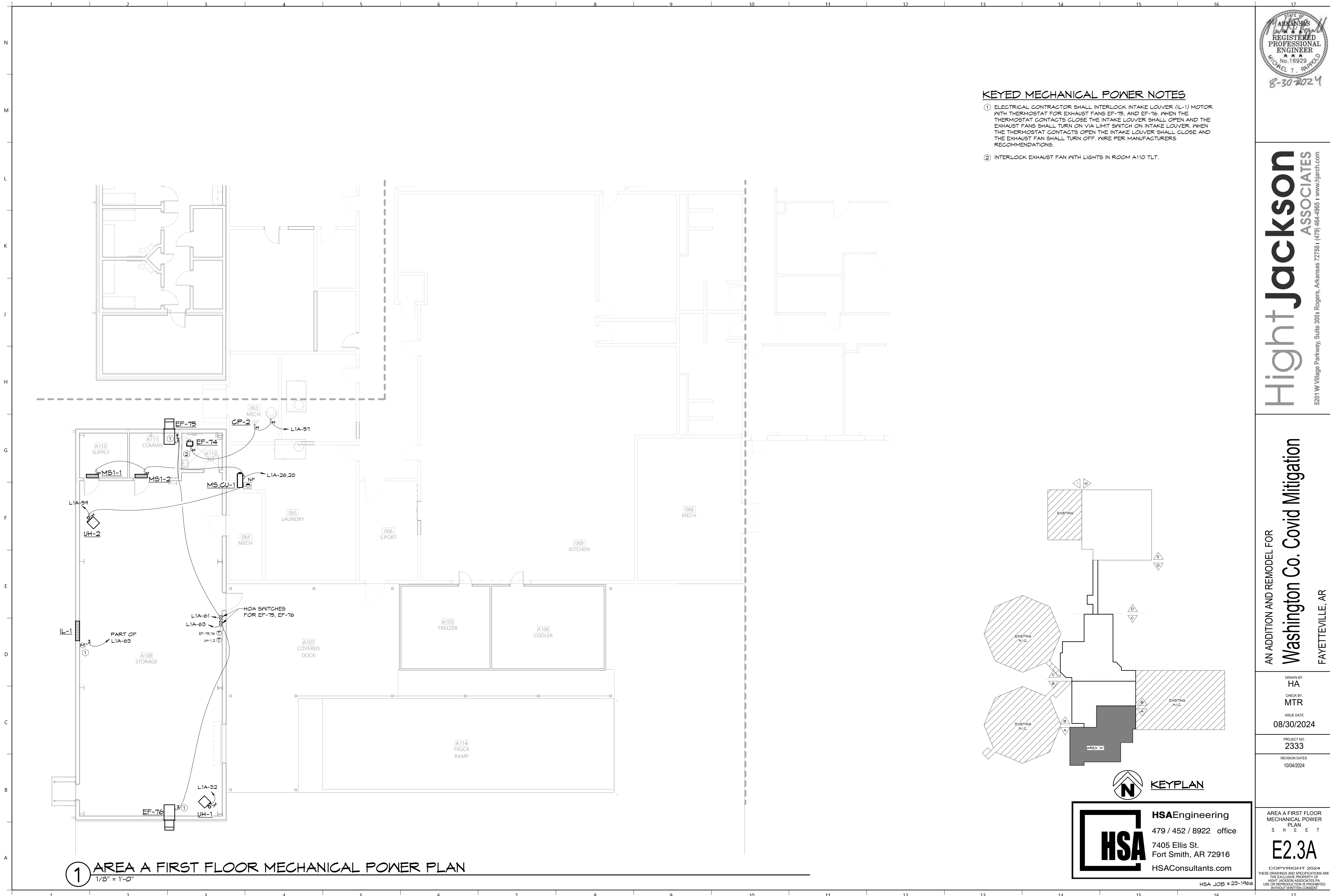
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KEYPLAN

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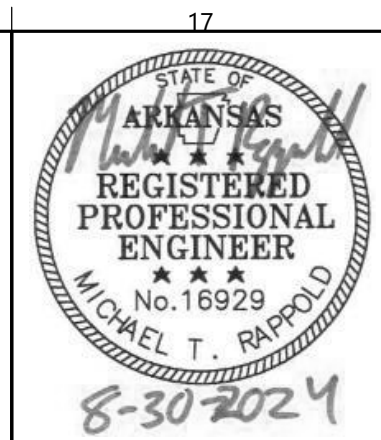
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KEYED MECHANICAL POWER NOTES

- ① ELECTRICAL CONTRACTOR SHALL INTERLOCK INTAKE LOUVER (IL-1) MOTOR WITH THERMOSTAT FOR EXHAUST FANS EF-75, AND EF-76. WHEN THE THERMOSTAT CONTACTS CLOSE THE INTAKE LOUVER SHALL OPEN AND THE EXHAUST FANS SHALL TURN ON VIA LIMIT SWITCH ON INTAKE LOUVER. WHEN THE THERMOSTAT CONTACTS OPEN THE INTAKE LOUVER SHALL CLOSE AND THE EXHAUST FAN SHALL TURN OFF. WIRE PER MANUFACTURERS RECOMMENDATIONS.
- ② INTERLOCK EXHAUST FAN WITH LIGHTS IN ROOM A110 TLT.



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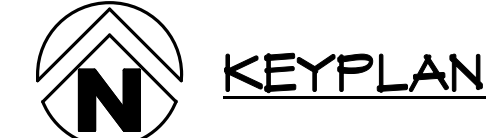
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AREA A FIRST FLOOR
MECHANICAL POWER
PLAN
SHEET

E2.3A

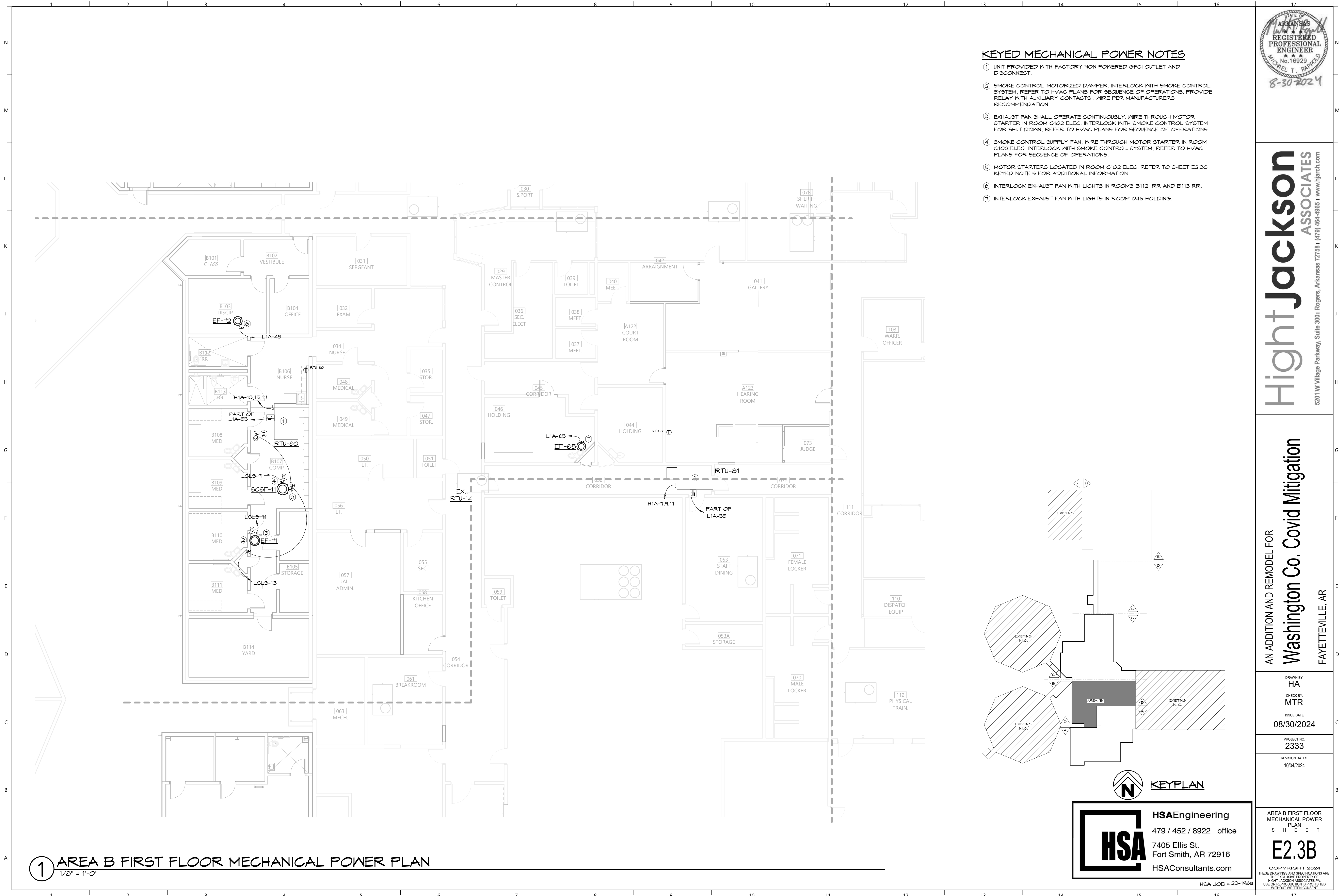
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① AREA A FIRST FLOOR MECHANICAL POWER PLAN
1/8" = 1'-0"



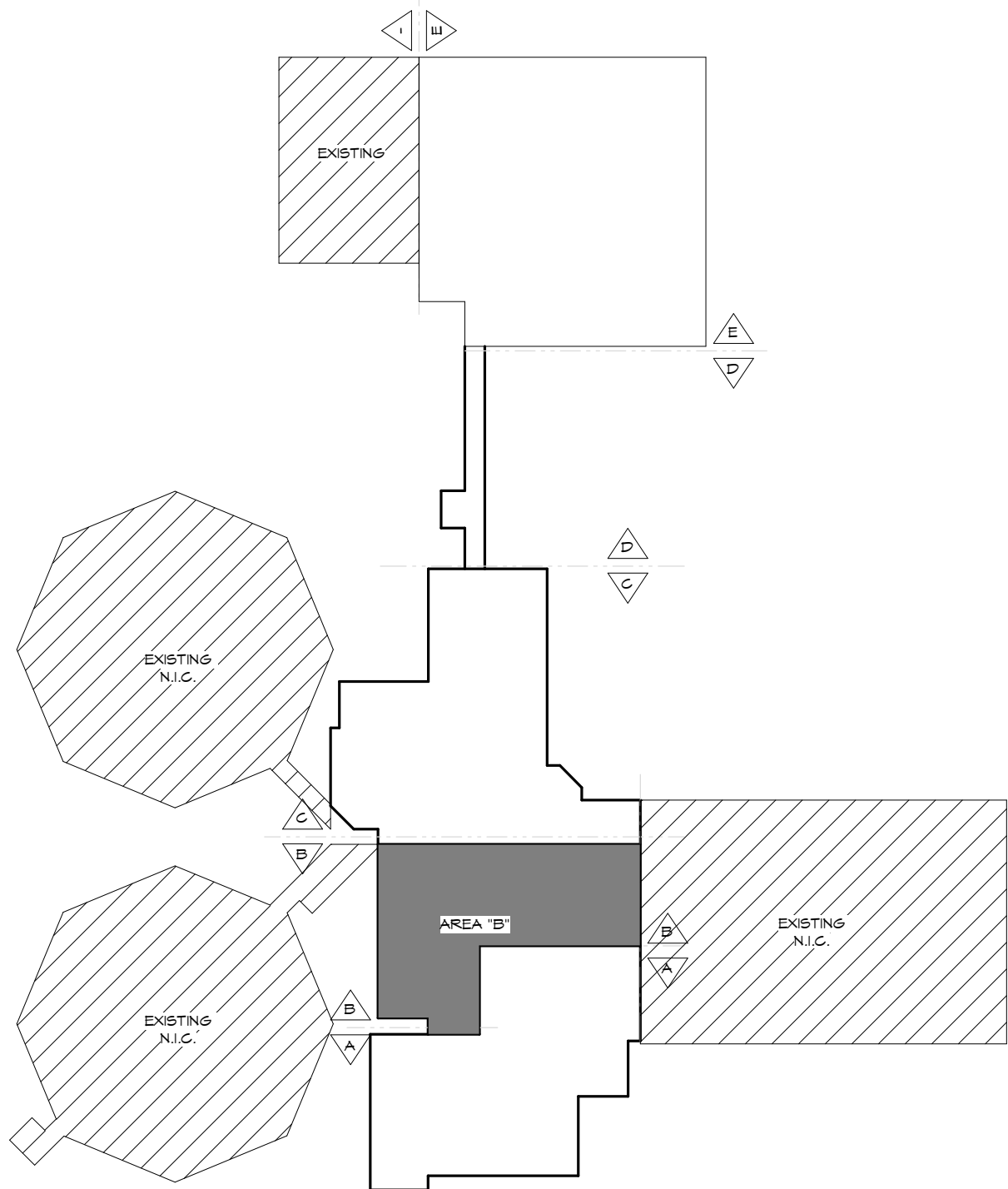
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1 AREA B FIRST FLOOR MECHANICAL POWER PLAN
1/8" = 1'-0"

- KEYED MECHANICAL POWER NOTES**
- 1 UNIT PROVIDED WITH FACTORY NON POWERED GFCI OUTLET AND DISCONNECT.
 - 2 SMOKE CONTROL MOTORIZED DAMPER. INTERLOCK WITH SMOKE CONTROL SYSTEM. REFER TO HVAC PLANS FOR SEQUENCE OF OPERATIONS. PROVIDE RELAY WITH AUXILIARY CONTACTS. WIRE PER MANUFACTURERS RECOMMENDATION.
 - 3 EXHAUST FAN SHALL OPERATE CONTINUOUSLY. WIRE THROUGH MOTOR STARTER IN ROOM C102 ELEG. INTERLOCK WITH SMOKE CONTROL SYSTEM FOR SHUT DOWN. REFER TO HVAC PLANS FOR SEQUENCE OF OPERATIONS.
 - 4 SMOKE CONTROL SUPPLY FAN. WIRE THROUGH MOTOR STARTER IN ROOM C102 ELEG. INTERLOCK WITH SMOKE CONTROL SYSTEM. REFER TO HVAC PLANS FOR SEQUENCE OF OPERATIONS.
 - 5 MOTOR STARTERS LOCATED IN ROOM C102 ELEG. REFER TO SHEET E2.3C KEYED NOTE 5 FOR ADDITIONAL INFORMATION.
 - 6 INTERLOCK EXHAUST FAN WITH LIGHTS IN ROOMS B112 RR AND B113 RR.
 - 7 INTERLOCK EXHAUST FAN WITH LIGHTS IN ROOM 046 HOLDING.





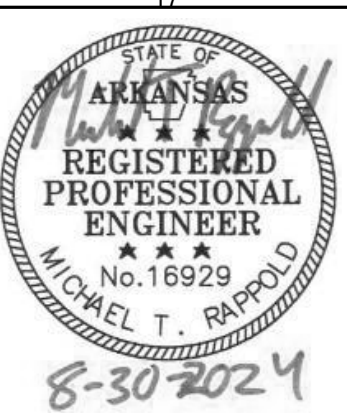
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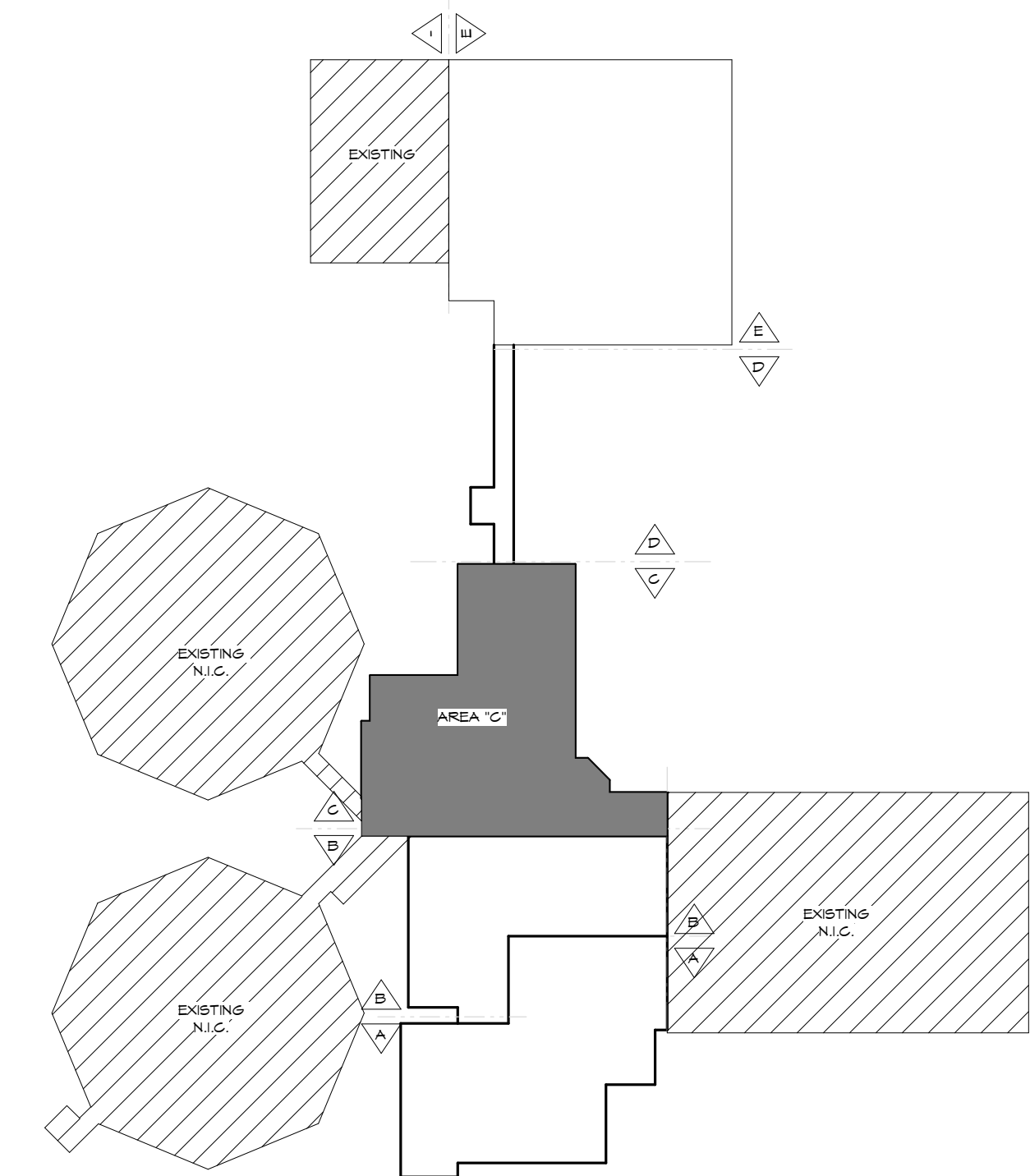
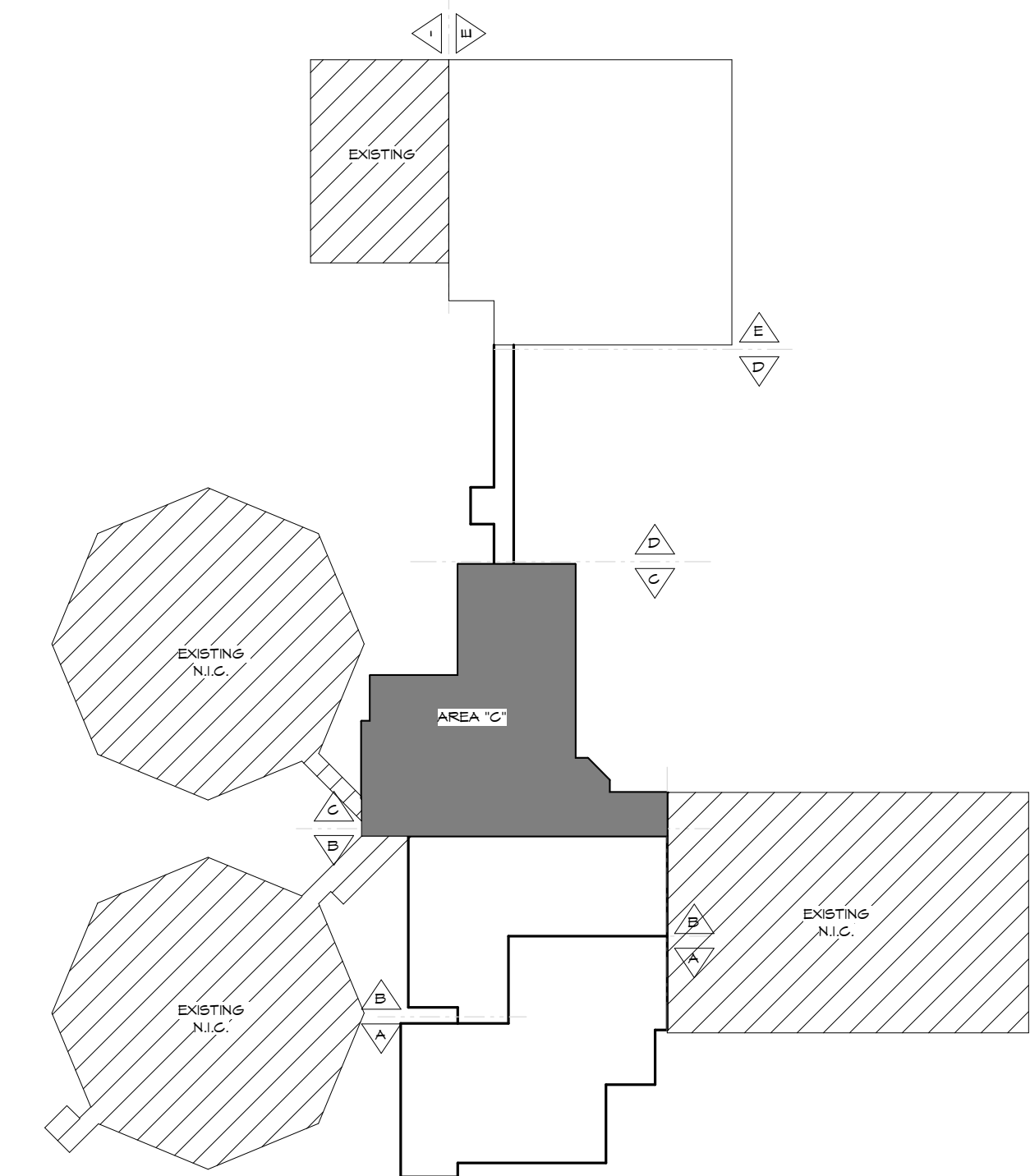


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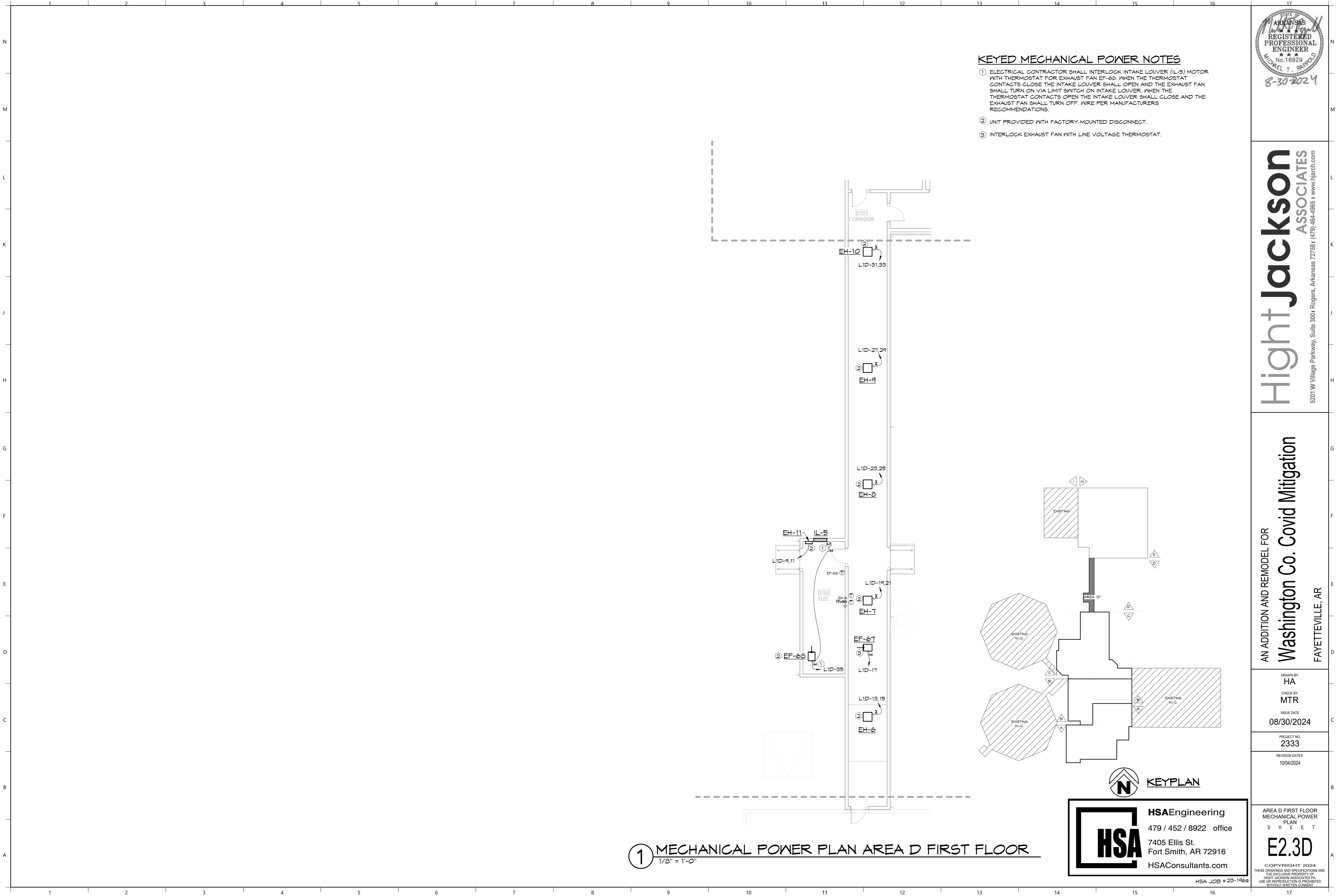
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AREA B FIRST FLOOR MECHANICAL POWER PLAN SHEET E2.3B
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KEYED MECHANICAL POWER NOTES

- ① ELECTRICAL CONTRACTOR SHALL INTERLOCK INTAKE LOUVER (IL-5) MOTOR WITH THERMOSTAT FOR EXHAUST FAN EF-60. WHEN THE THERMOSTAT CONTACTS CLOSE THE INTAKE LOUVER SHALL OPEN AND THE EXHAUST FAN SHALL TURN ON VIA LIMIT SWITCH ON INTAKE LOUVER. WHEN THE THERMOSTAT CONTACTS OPEN THE INTAKE LOUVER SHALL CLOSE AND THE EXHAUST FAN SHALL TURN OFF. WIRE PER MANUFACTURERS RECOMMENDATIONS.
- ② UNIT PROVIDED WITH FACTORY MOUNTED DISCONNECT.
- ③ INTERLOCK EXHAUST FAN WITH LINE VOLTAGE THERMOSTAT.



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MECHANICAL POWER
PLAN
S H E E T

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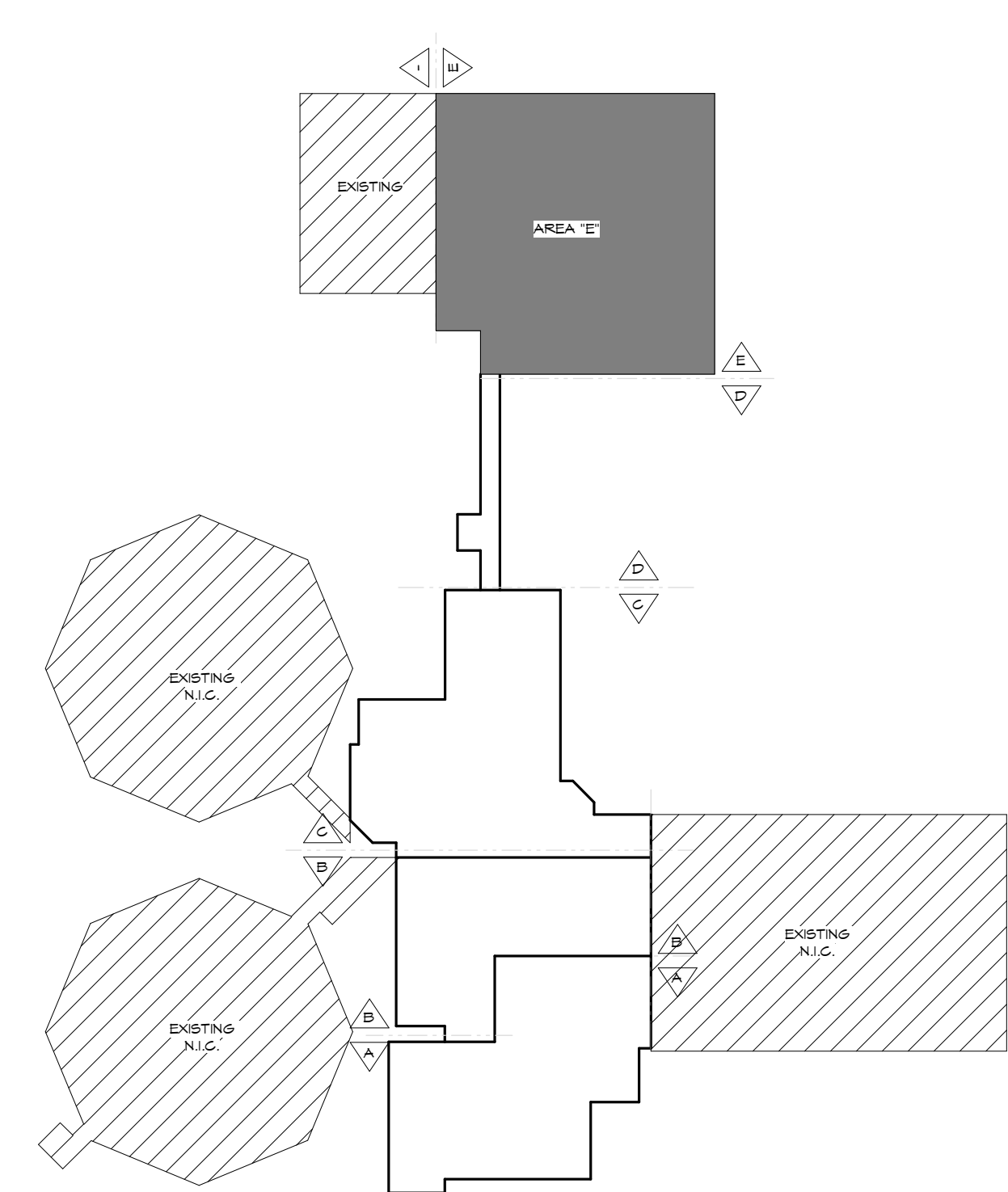
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- ① EXHAUST FAN SHALL BE CONTROLLED WITH LIGHTS THIS ROOM. REFER TO LIGHTING PLANS. WIRE PER MANUFACTURERS RECOMMENDATION.
- ② UNIT PROVIDED WITH FACTORY NON POWERED GFCI OUTLET AND DISCONNECT.
- ③ EXHAUST FAN SHALL OPERATE CONTINUOUSLY. INTERLOCK WITH SMOKE CONTROL SYSTEM FOR SHUT DOWN, PROVIDE RELAY WITH AUXILIARY CONTACTS. REFER TO HVAC PLANS FOR SEQUENCE OF OPERATIONS.
- ④ SMOKE CONTROL EXHAUST FAN, WIRE THROUGH MOTOR STARTER IN ROOM E130 SMOKE. INTERLOCK WITH SMOKE CONTROL SYSTEM, REFER TO HVAC PLANS FOR SEQUENCE OF OPERATIONS.
- ⑤ SMOKE CONTROL SUPPLY FAN, WIRE THROUGH MOTOR STARTER IN ROOM E130 SMOKE. INTERLOCK WITH SMOKE CONTROL SYSTEM, REFER TO HVAC PLANS FOR SEQUENCE OF OPERATIONS.
- ⑥ NON FUSED MOTOR STARTERS WITH AUXILIARY CONTACTS FOR SUPPLY FAN (SCF5F), VCSF5F, AND EXHAUST FANS (SCF5F1 - SCF5F1F1). INTERLOCK WITH SMOKE CONTROL SYSTEM, REFER TO HVAC PLANS FOR SEQUENCE OF OPERATIONS.
- ⑦ ELECTRICAL CONTRACTOR SHALL INTERLOCK INTAKE LOUVER (IL-2) MOTOR WITH THERMOSTAT FOR EXHAUST FAN EF-55. WHEN THE THERMOSTAT CONTACTS CLOSE THE INTAKE LOUVER SHALL OPEN AND THE EXHAUST FAN SHALL TURN ON VIA LIMIT SWITCH ON INTAKE LOUVER. WHEN THE THERMOSTAT CONTACTS OPEN THE INTAKE LOUVER SHALL CLOSE AND THE EXHAUST FAN SHALL TURN OFF. WIRE PER MANUFACTURERS RECOMMENDATIONS.
- ⑧ ELECTRICAL CONTRACTOR SHALL INTERLOCK INTAKE LOUVER (IL-6) MOTOR WITH THERMOSTAT FOR EXHAUST FAN EF-62. WHEN THE THERMOSTAT CONTACTS CLOSE THE INTAKE LOUVER SHALL OPEN AND THE EXHAUST FAN SHALL TURN ON VIA LIMIT SWITCH ON INTAKE LOUVER. WHEN THE THERMOSTAT CONTACTS OPEN THE INTAKE LOUVER SHALL CLOSE AND THE EXHAUST FAN SHALL TURN OFF. WIRE PER MANUFACTURERS RECOMMENDATIONS.
- ⑨ ELECTRICAL CONTRACTOR SHALL INTERLOCK INTAKE LOUVER (IL-4) MOTOR WITH THERMOSTAT FOR EXHAUST FAN EF-60. WHEN THE THERMOSTAT CONTACTS CLOSE THE INTAKE LOUVER SHALL OPEN AND THE EXHAUST FAN SHALL TURN ON VIA LIMIT SWITCH ON INTAKE LOUVER. WHEN THE THERMOSTAT CONTACTS OPEN THE INTAKE LOUVER SHALL CLOSE AND THE EXHAUST FAN SHALL TURN OFF. WIRE PER MANUFACTURERS RECOMMENDATIONS.
- ⑩ CIRCUIT TO NEAREST 120V RECEPTACLE CIRCUIT, INTERLOCK EXHAUST FAN WITH LIGHTS IN SPACE.
- ⑪ SMOKE CONTROL MOTORIZED DAMPER, INTERLOCK WITH SMOKE CONTROL SYSTEM, REFER TO HVAC PLANS FOR SEQUENCE OF OPERATIONS. PROVIDE RELAY WITH AUXILIARY CONTACTS. WIRE PER MANUFACTURERS RECOMMENDATION.
- ⑫ UNIT PROVIDED WITH FACTORY MOUNTED DISCONNECT.



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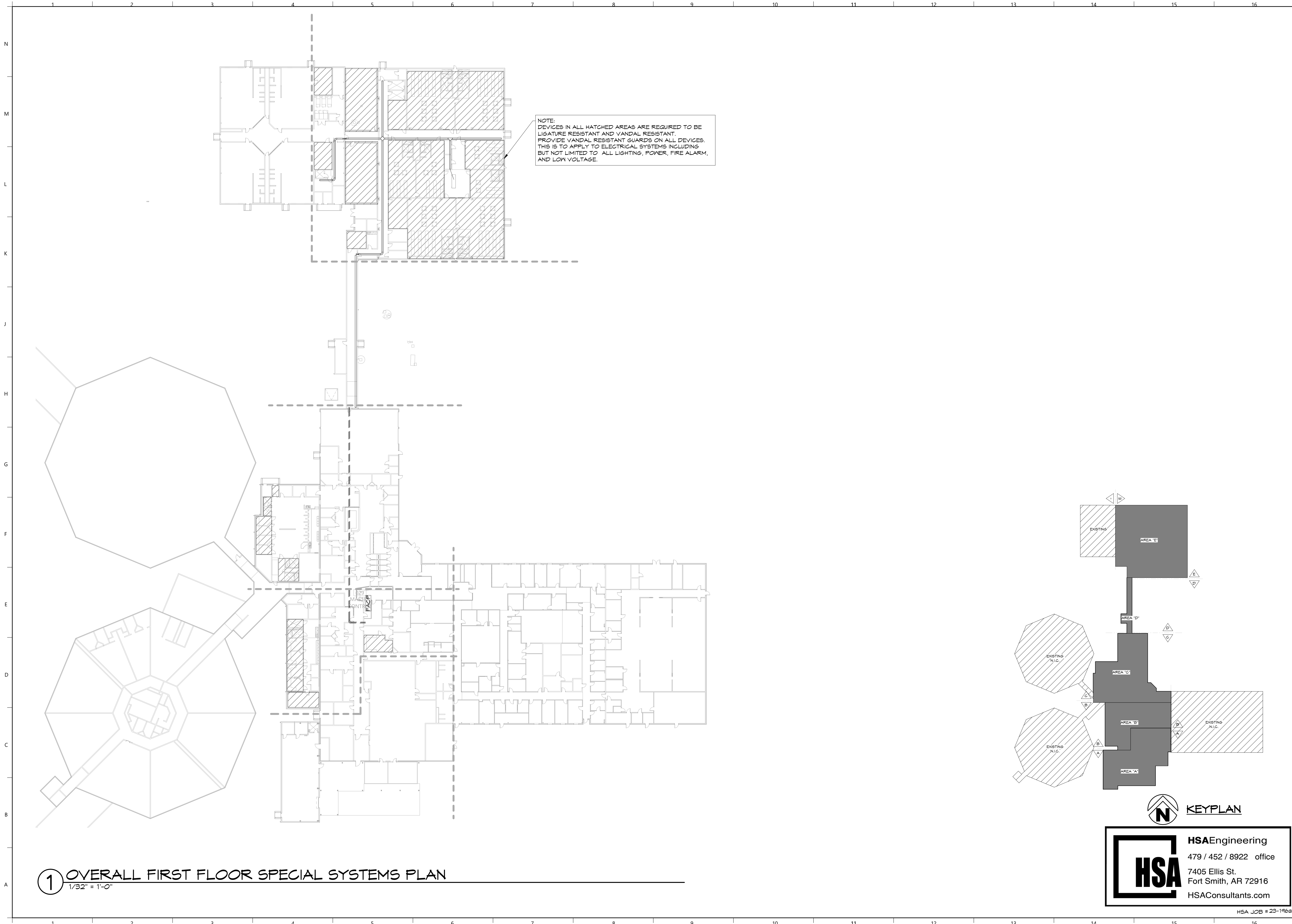
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AREA E FIRST FLOOR
MECHANICAL POWER
PLAN
S H E E T

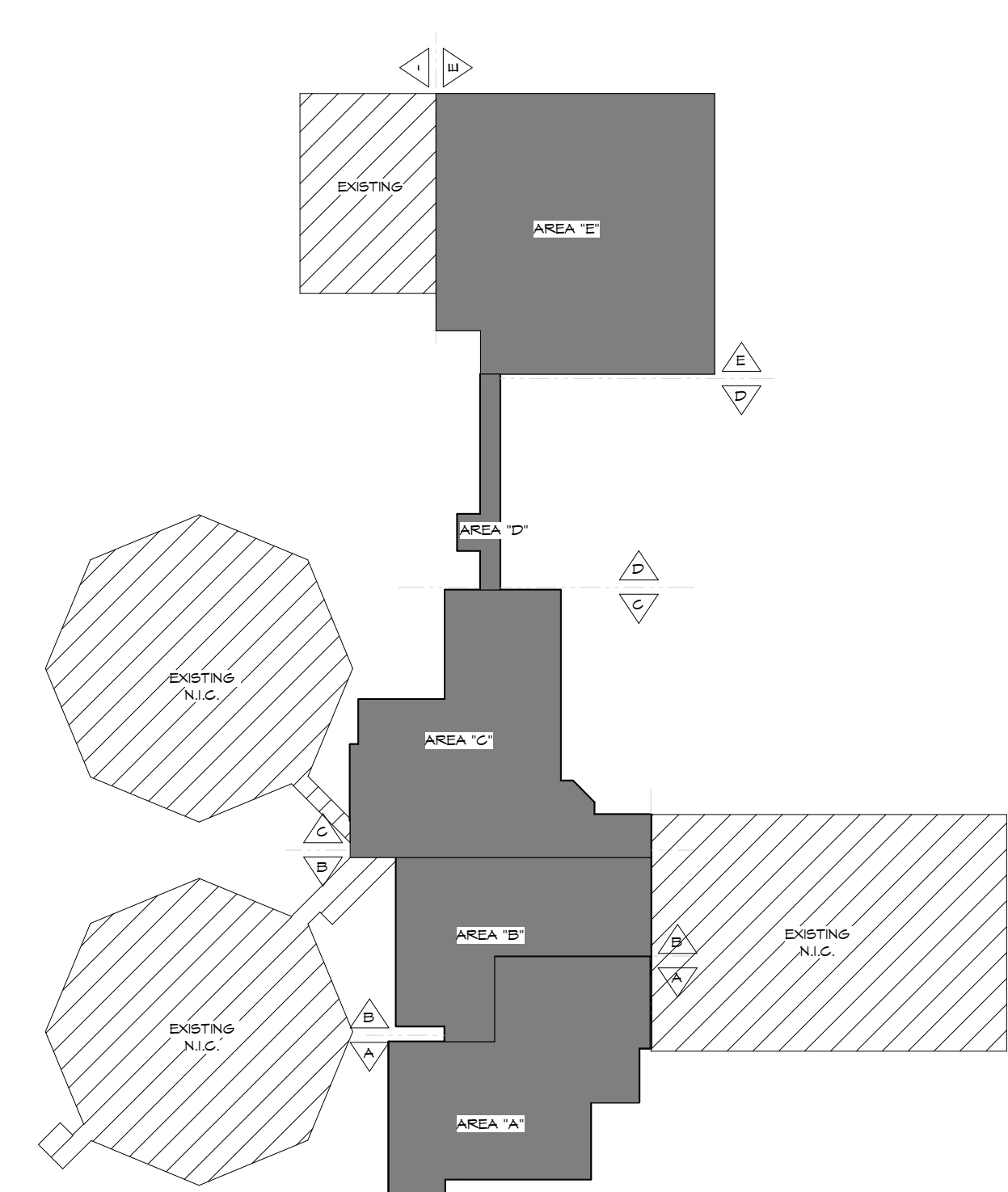
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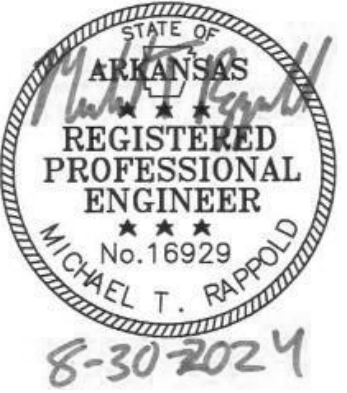


NOTE:
DEVICES IN ALL HATCHED AREAS ARE REQUIRED TO BE
LIGATURE RESISTANT AND VANDAL RESISTANT.
PROVIDE VANDAL RESISTANT GUARDS ON ALL DEVICES.
THIS IS TO APPLY TO ELECTRICAL SYSTEMS INCLUDING
BUT NOT LIMITED TO ALL LIGHTING, POWER, FIRE ALARM,
AND LOW VOLTAGE.





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OVERALL SPECIAL
SYSTEMS PLAN
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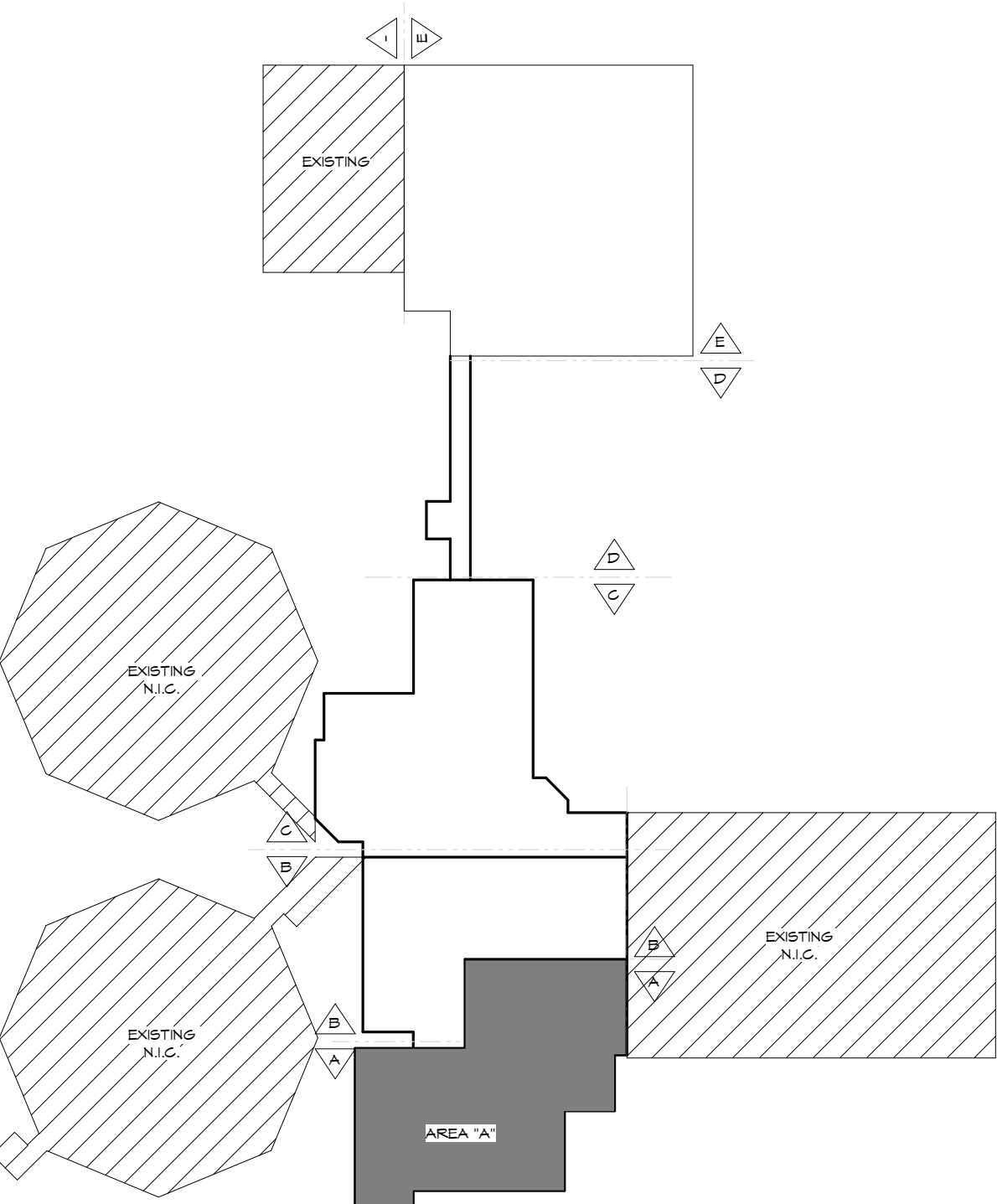
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AREA A FIRST FLOOR
SPECIAL SYSTEMS PLAN
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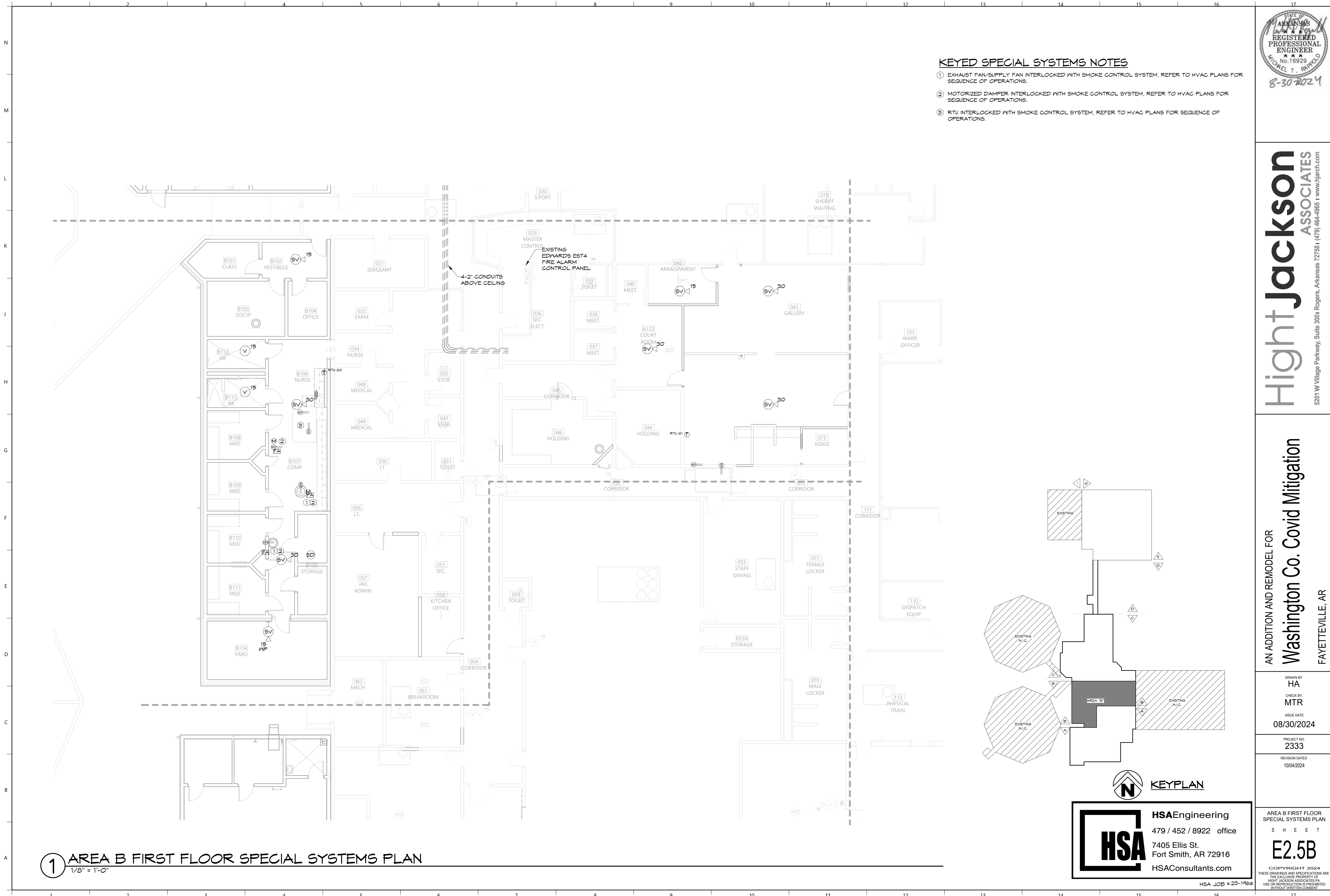


KEYPLAN



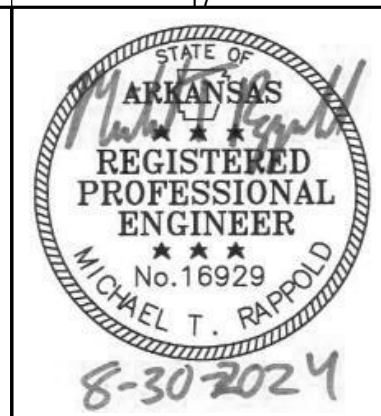
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1 AREA B FIRST FLOOR SPECIAL SYSTEMS PLAN
1/8" = 1'-0"

- KEYED SPECIAL SYSTEMS NOTES**
- 1 EXHAUST FAN/SUPPLY FAN INTERLOCKED WITH SMOKE CONTROL SYSTEM, REFER TO HVAC PLANS FOR SEQUENCE OF OPERATIONS.
 - 2 MOTORIZED DAMPER INTERLOCKED WITH SMOKE CONTROL SYSTEM, REFER TO HVAC PLANS FOR SEQUENCE OF OPERATIONS.
 - 3 RTU INTERLOCKED WITH SMOKE CONTROL SYSTEM, REFER TO HVAC PLANS FOR SEQUENCE OF OPERATIONS.



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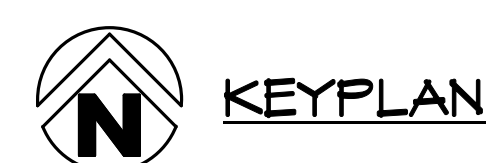
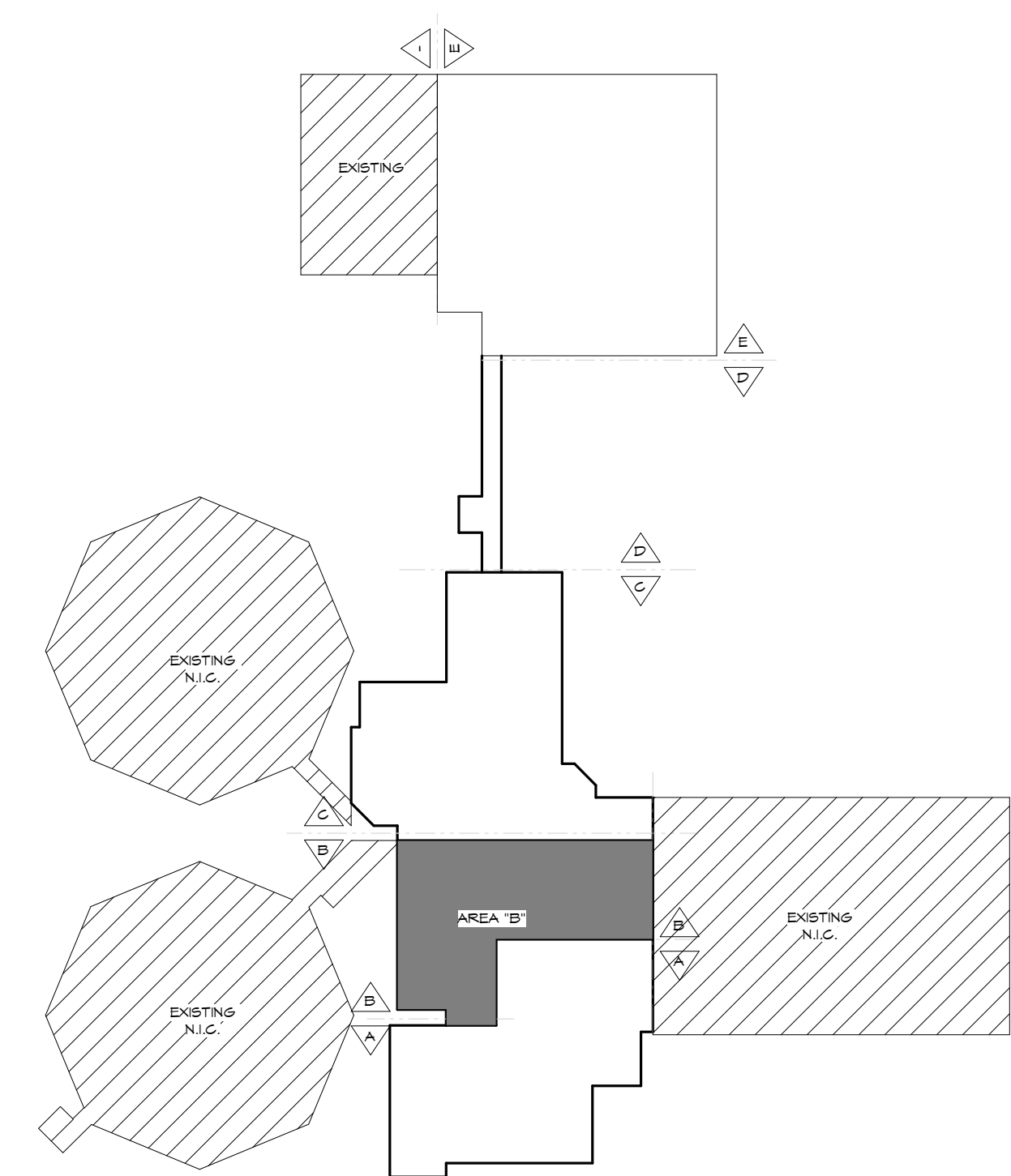
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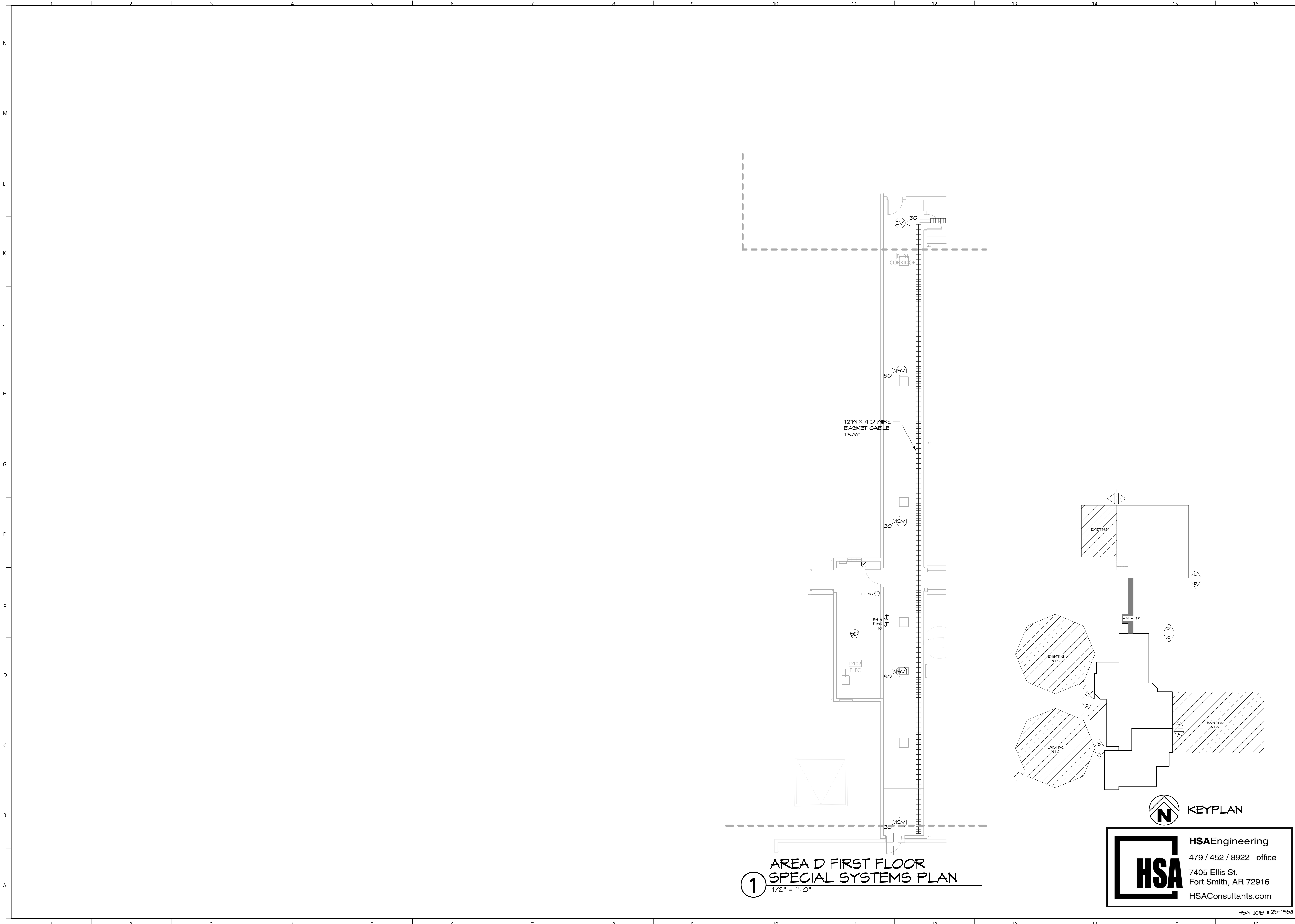
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SPECIAL SYSTEMS PLAN
S H E E T

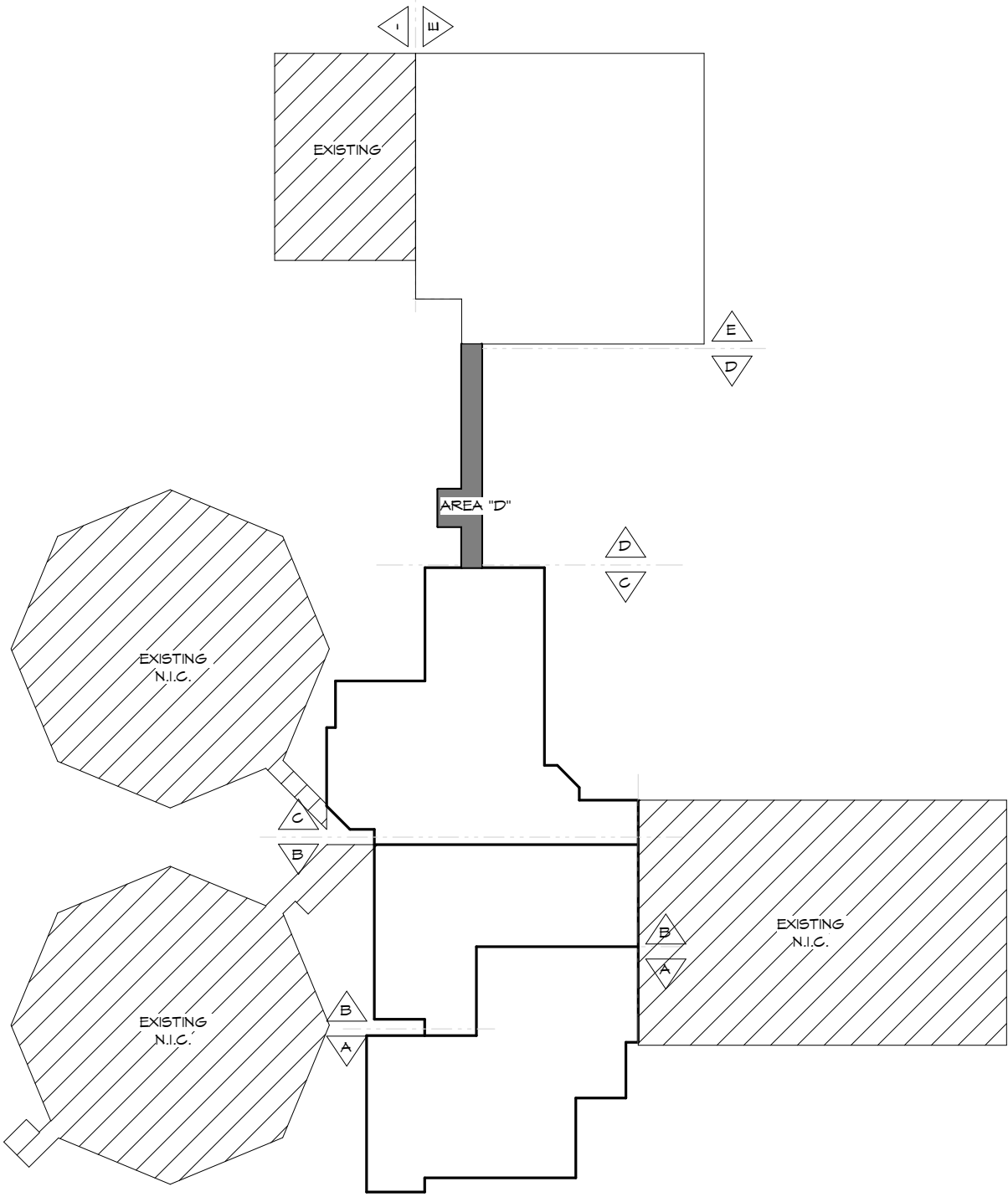
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1 AREA D FIRST FLOOR
SPECIAL SYSTEMS PLAN
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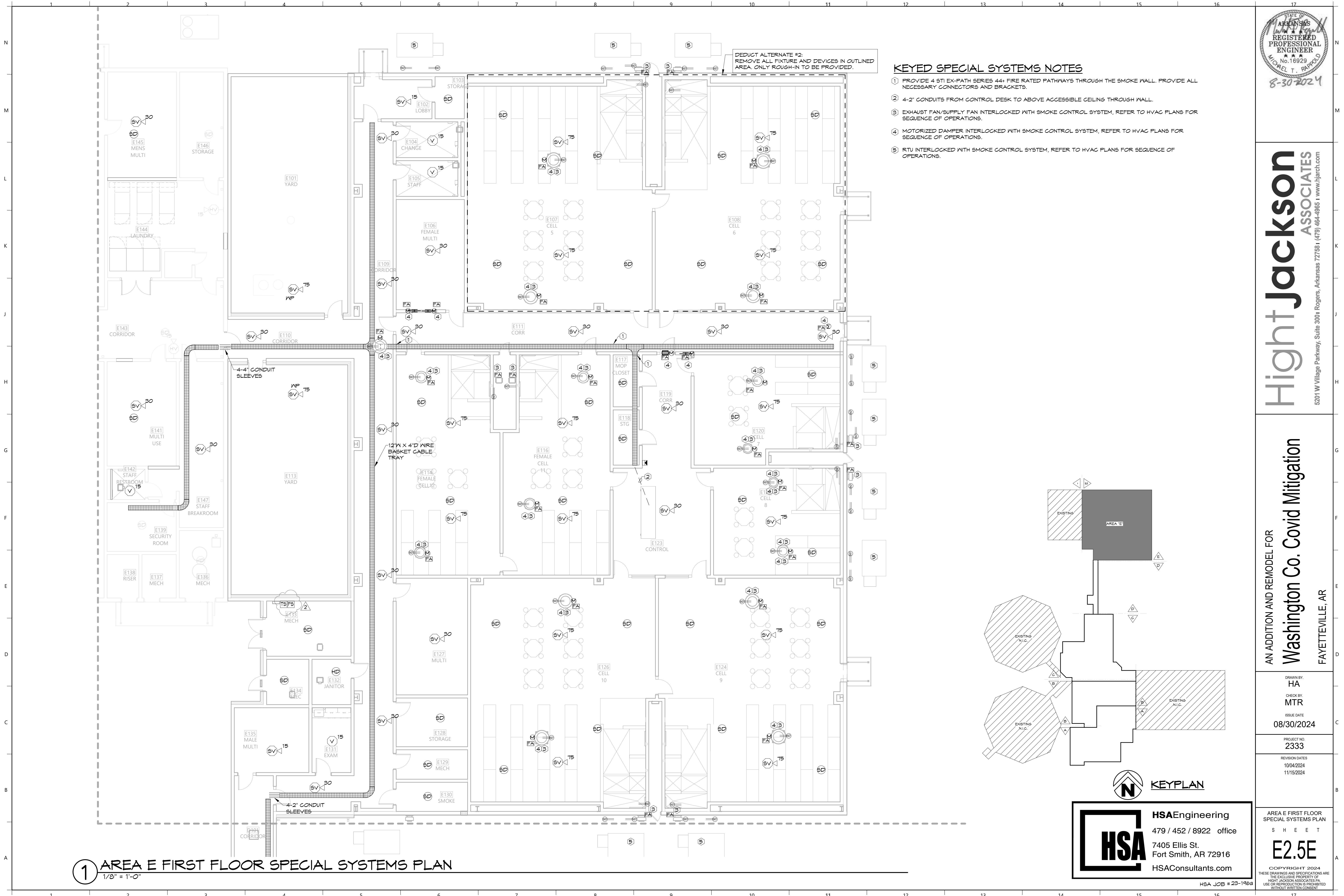
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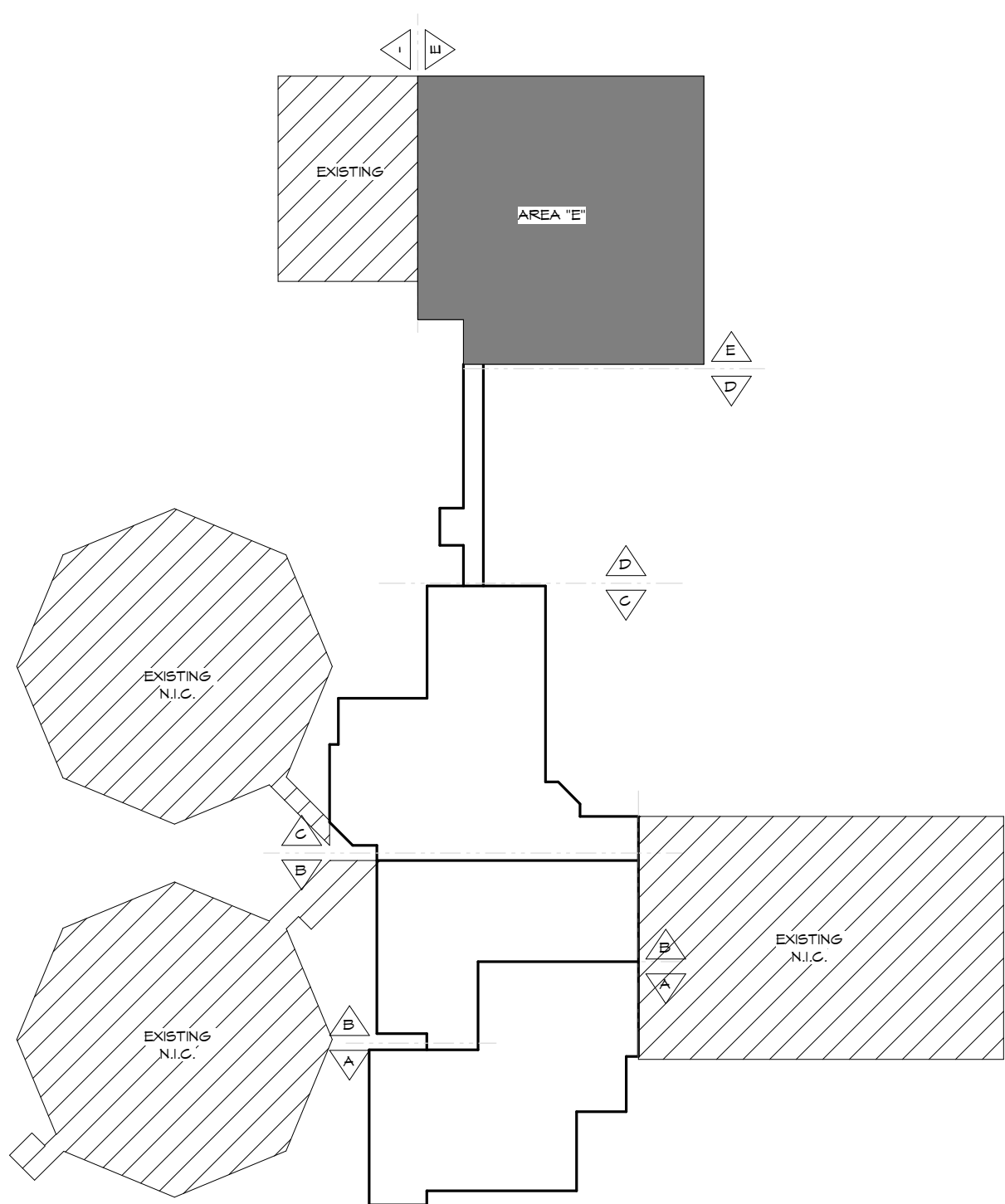
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KEYED SPECIAL SYSTEMS NOTES

- 1 PROVIDE 4 STI EX-PATH SERIES 44+ FIRE RATED PATHWAYS THROUGH THE SMOKE WALL. PROVIDE ALL NECESSARY CONNECTORS AND BRACKETS.
- 2 4-2" CONDUITS FROM CONTROL DESK TO ABOVE ACCESSIBLE CEILING THROUGH WALL.
- 3 EXHAUST FAN/SUPPLY FAN INTERLOCKED WITH SMOKE CONTROL SYSTEM, REFER TO HVAC PLANS FOR SEQUENCE OF OPERATIONS.
- 4 MOTORIZED DAMPER INTERLOCKED WITH SMOKE CONTROL SYSTEM, REFER TO HVAC PLANS FOR SEQUENCE OF OPERATIONS.
- 5 RTU INTERLOCKED WITH SMOKE CONTROL SYSTEM, REFER TO HVAC PLANS FOR SEQUENCE OF OPERATIONS.





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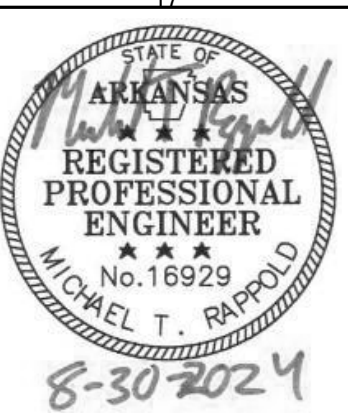
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1 AREA E FIRST FLOOR SPECIAL SYSTEMS PLAN
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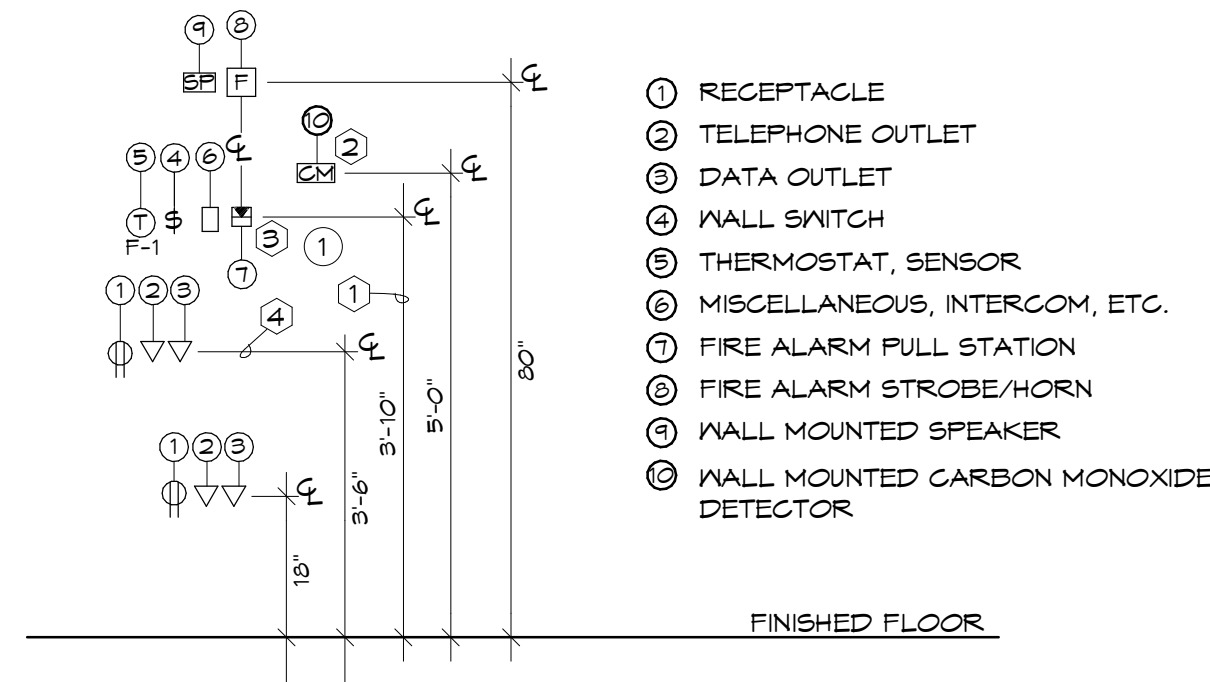
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AREA E FIRST FLOOR
SPECIAL SYSTEMS PLAN
SHEET
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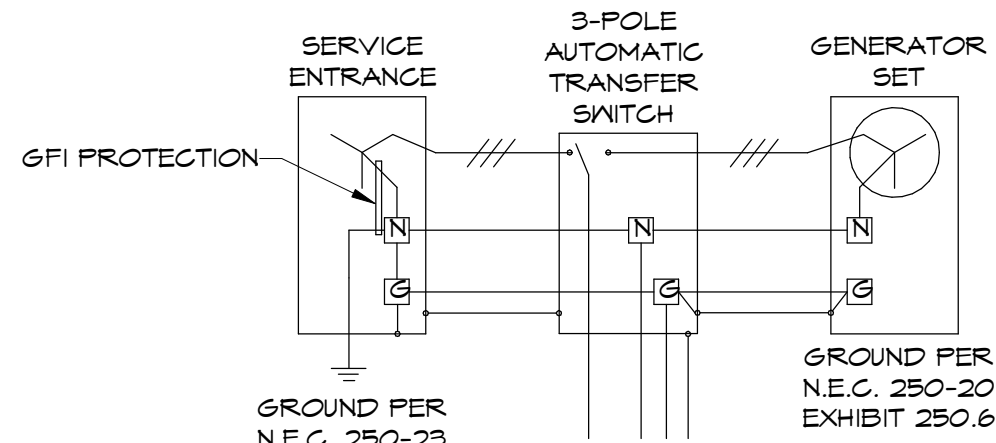
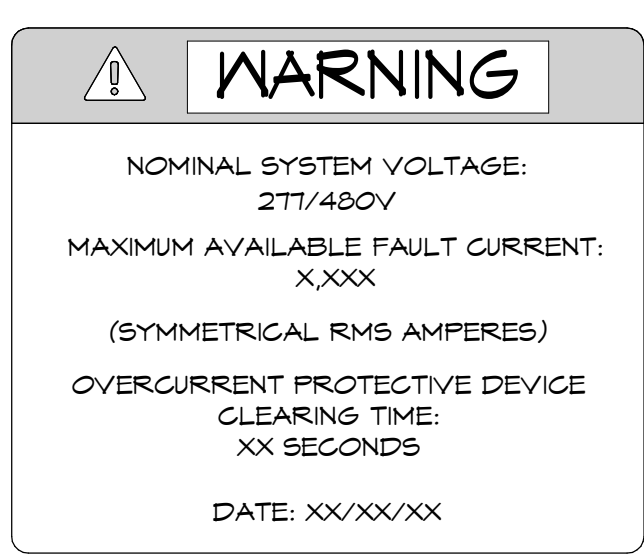
- 1 MOUNTING HEIGHT KEYED NOTE:**
- 4'-0" MAXIMUM TO TOP OF DEVICE UNLESS LOCATED ABOVE OBSTRUCTION (OR NOTED OTHERWISE) THEN MAXIMUM 4" ABOVE THE OBSTRUCTION. COORDINATE WITH MILLWORK.
 - MOUNT NEAR RETURN AIR GRILLE.
 - THE HEIGHT OF THE MANUAL FIRE ALARM BOXES SHALL BE A MINIMUM OF 42" AND A MAXIMUM OF 48" MEASURED VERTICALLY, FROM THE FLOOR LEVEL TO THE ACTIVATING HANDLE OR LEVER OF THE BOX.
 - ABOVE COUNTER MOUNTED DEVICES, INSTALL DEVICES ABOVE BACKSPLASH AND COORDINATED WITH MILLWORK. DATA/TELEPHONE DEVICES SHOWN ADJACENT TO ABOVE COUNTER RECEPTACLES TO BE TO BE MOUNTED AT SAME HEIGHT.
- NOTE:**
- ALL DEVICES SHOWN MAY NOT BE USED.
 - DETAIL INDICATES TYPICAL MOUNTING HEIGHTS ONLY.
 - DEVICES SHALL BE INSTALLED PLUMB, SQUARE AND TRUE.
 - ALL DEVICES INSTALLED AT A SINGLE LOCATION SHALL BE ALIGNED U.O.
 - COORDINATE ALL MOUNTING HEIGHTS WITH ARCHITECT.

1 MOUNTING HEIGHT DETAIL

N.T.S.

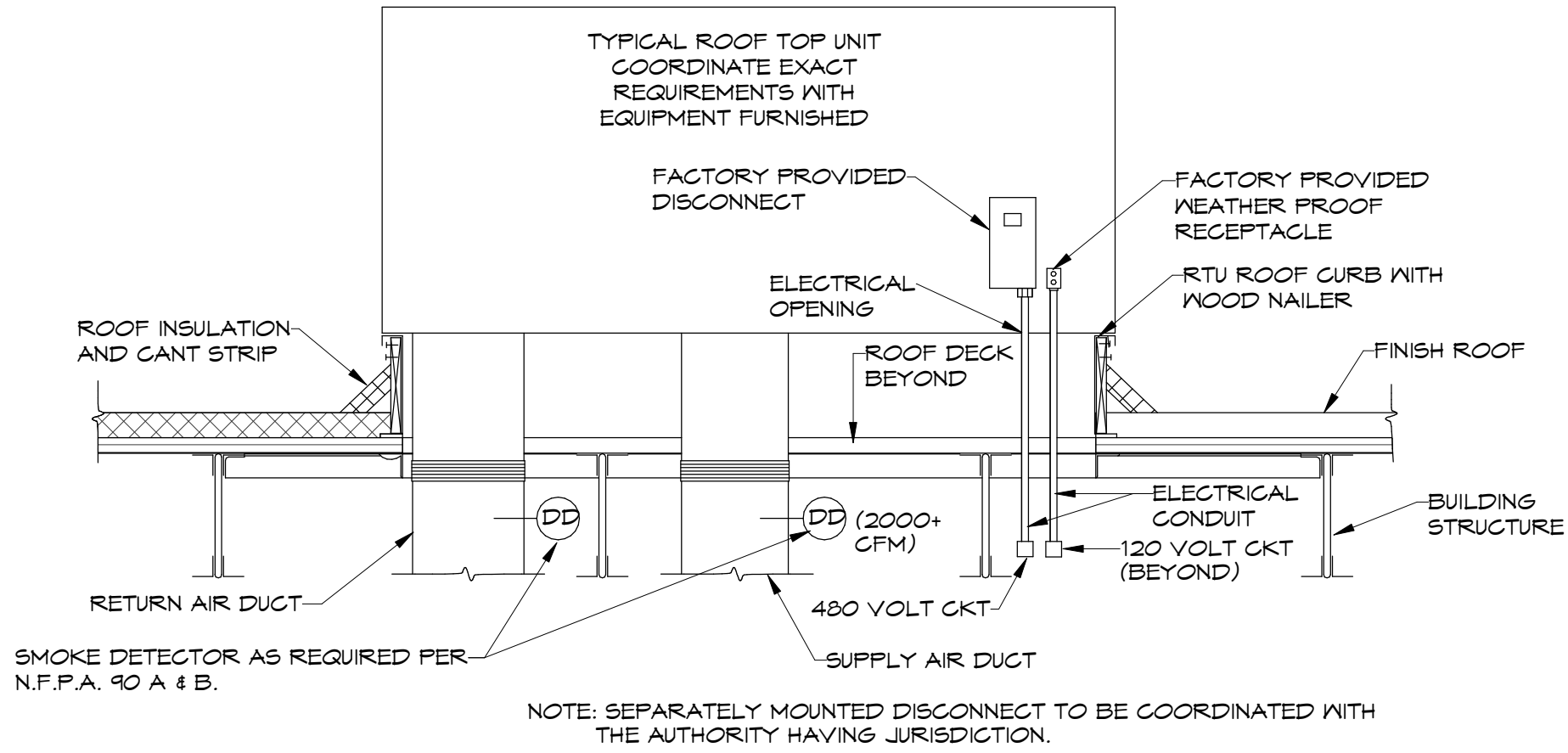


- NOTES:**
- LABEL SHALL BE ATTACHED TO ELETRICAL SERVICE EQUIPMENT PER NEC 110.24.
 - PROVIDE DURABLE WEATHERPROOF LABEL.
 - LABEL IS SHOWN TO SCALE.
 - ELECTRICAL CONTRACTOR SHALL COORDINATE AVAILABLE FAULT CURRENT WITH UTILITY AND COMPLETE LABEL ACCORDINGLY.



4 GENERATOR GROUNDING DIAGRAM

N.T.S.



5 ROOF TOP UNIT DETAIL

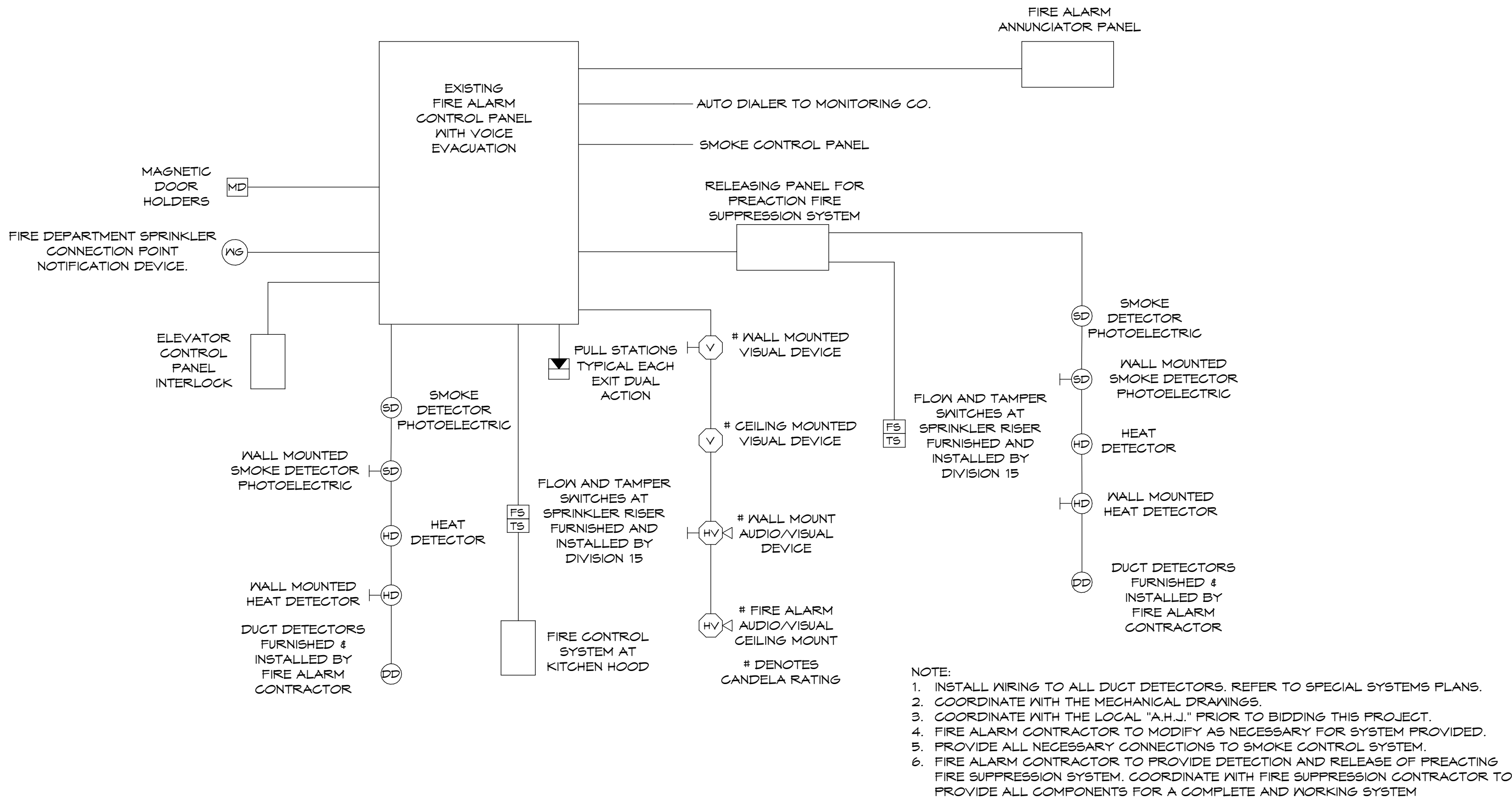
N.T.S.

3 FAULT CURRENT LABEL

N.T.S.

2 FIRE ALARM SYSTEM RISER DIAGRAM

N.T.S.



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ELECTRICAL DETAILS

SHEET

E3.1

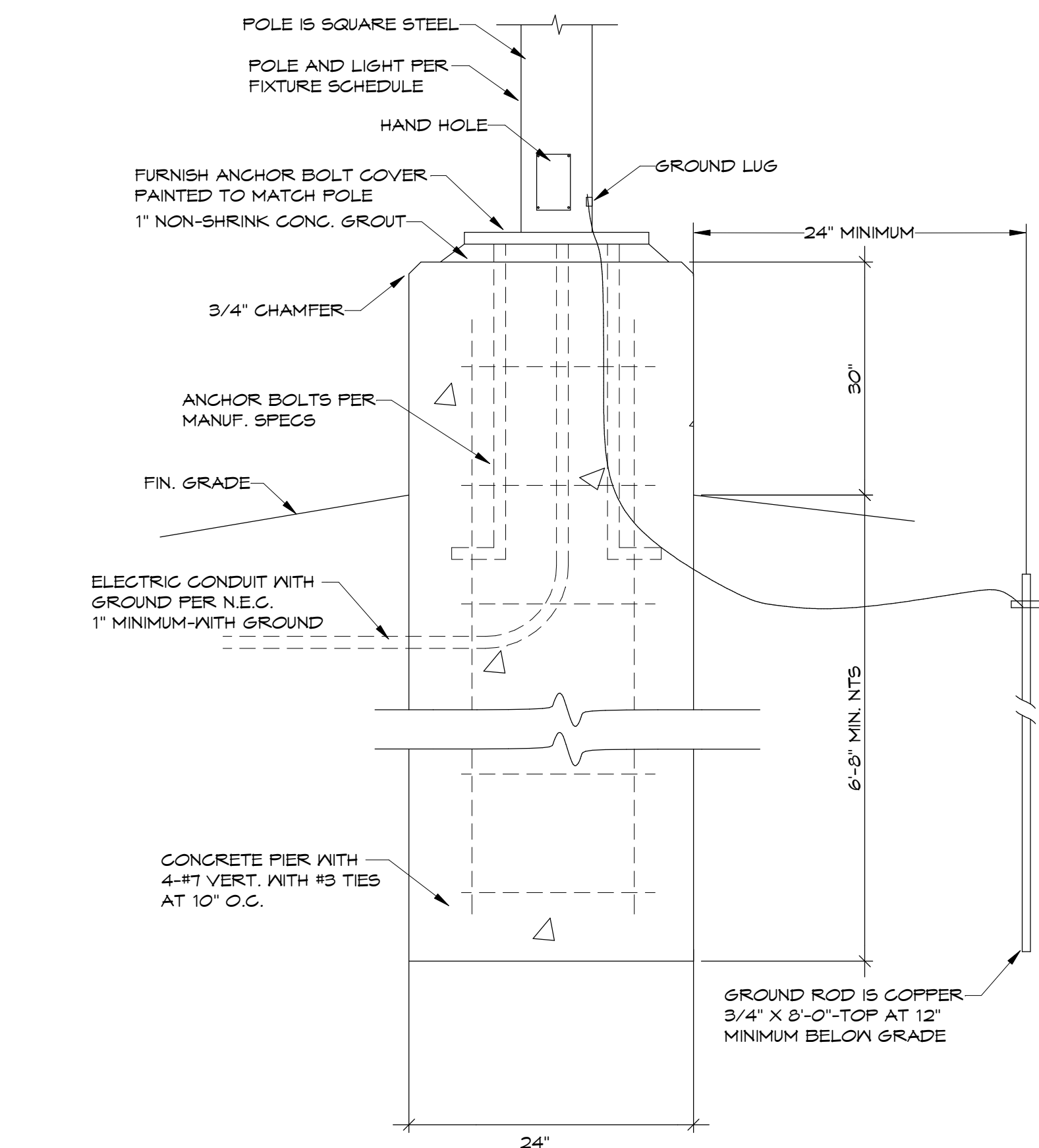
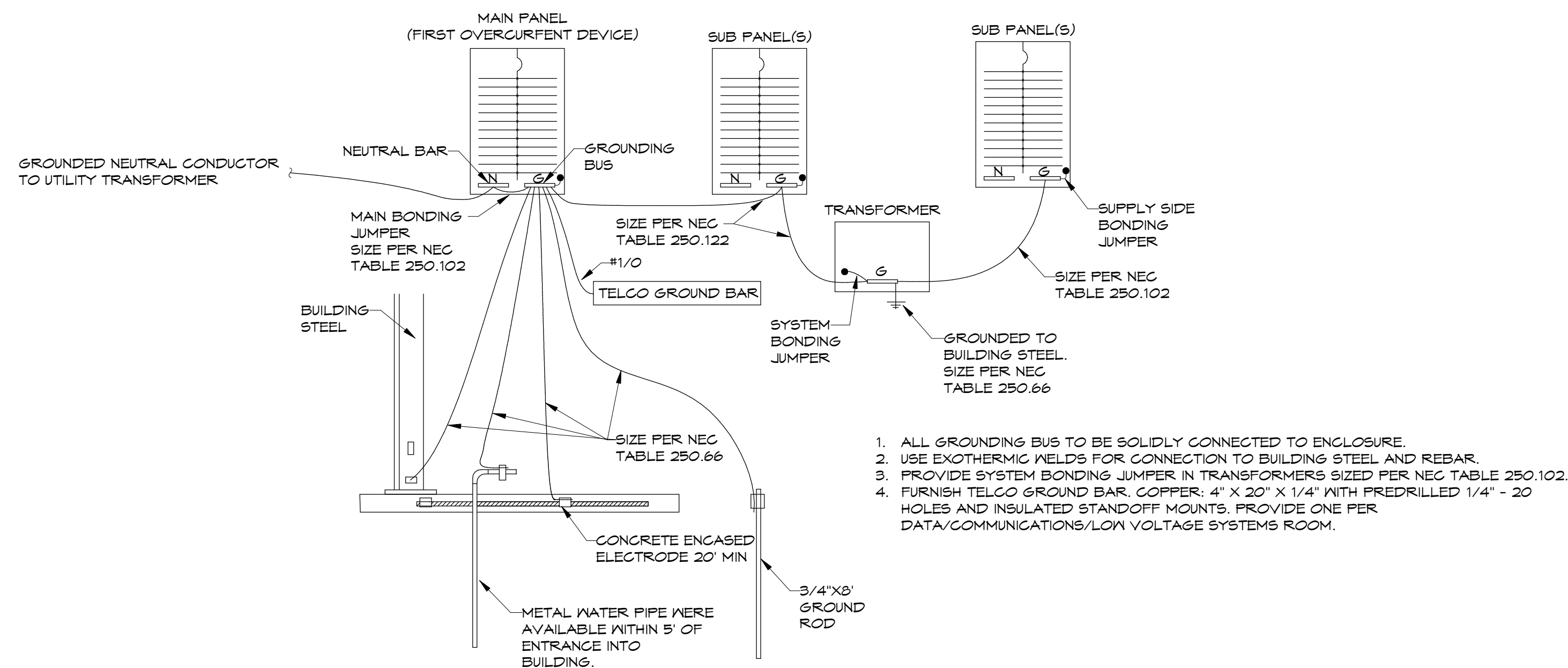
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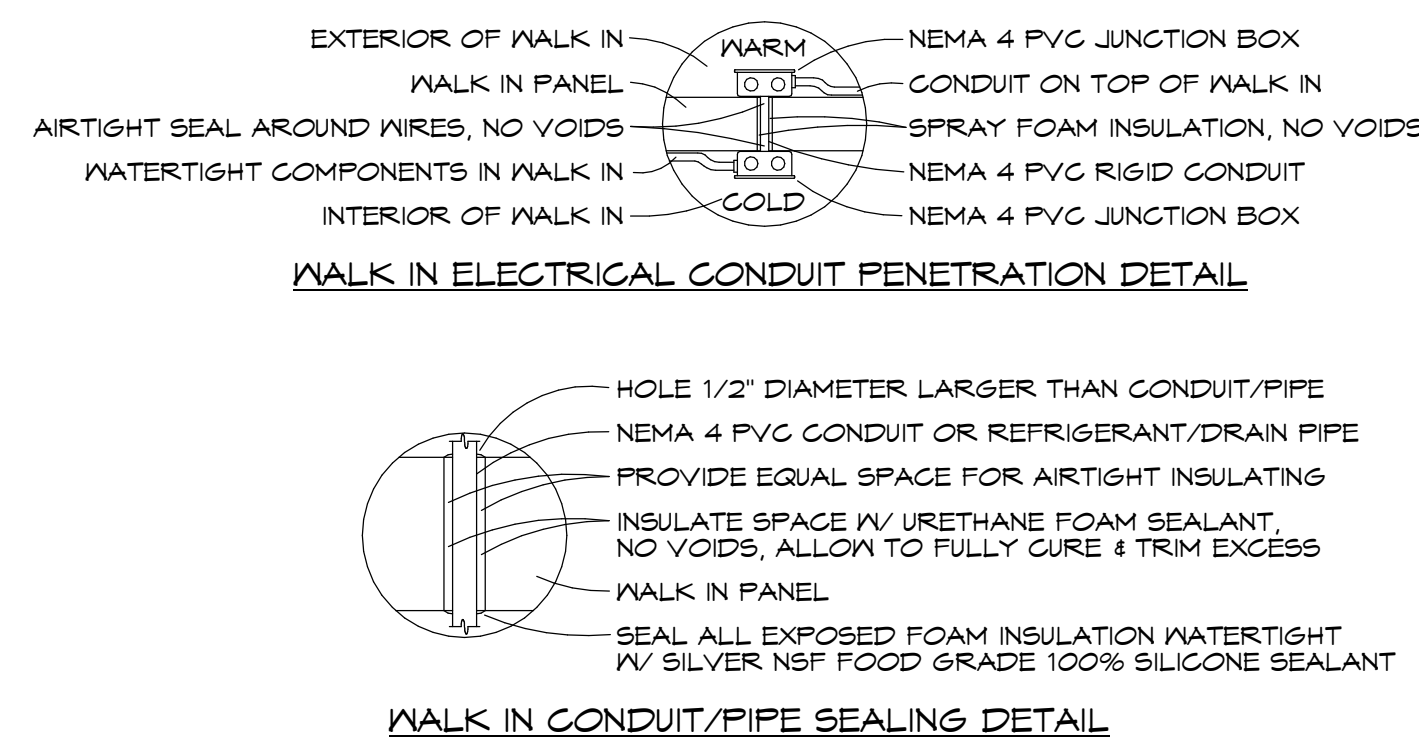
1 GROUNDING DIAGRAM

N.T.S.



3 EXTERIOR LIGHT POLE BASE

N.T.S.

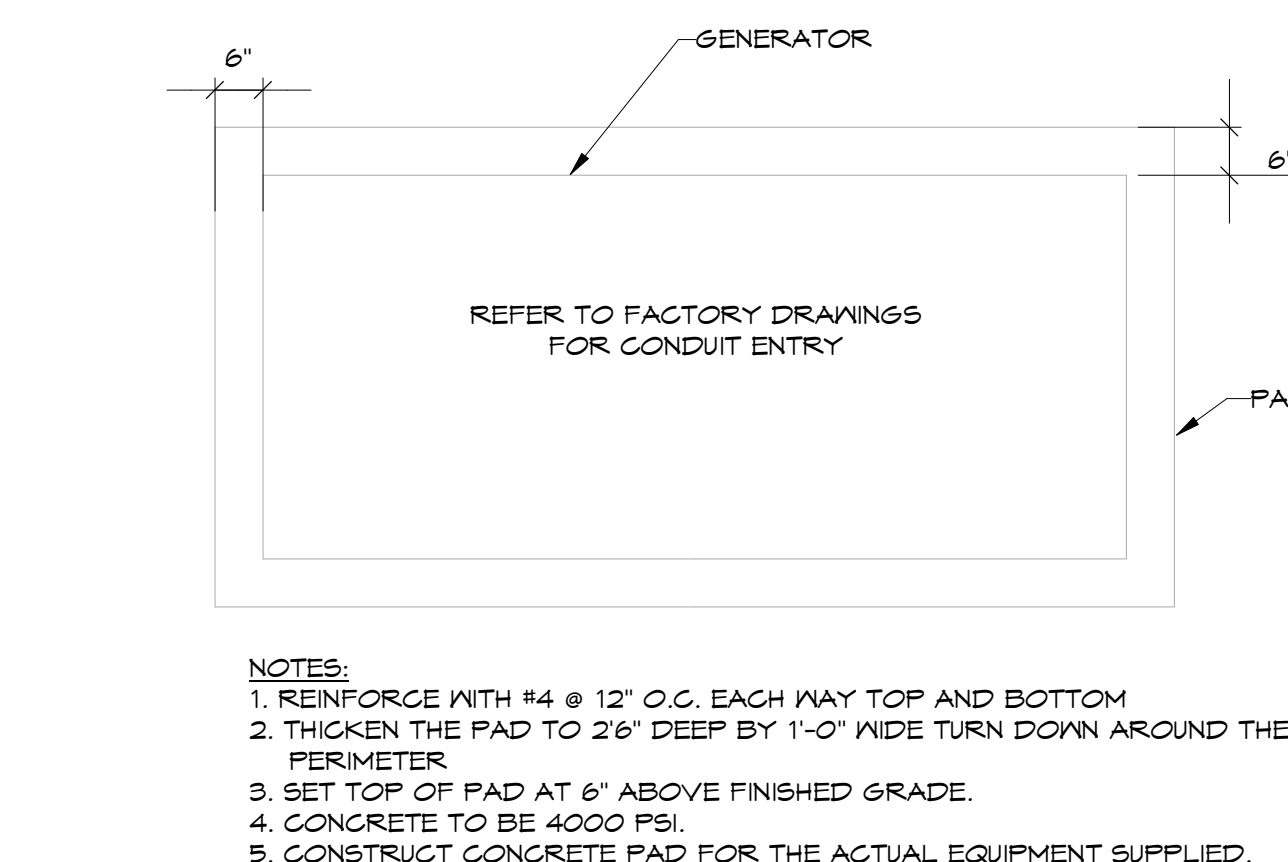
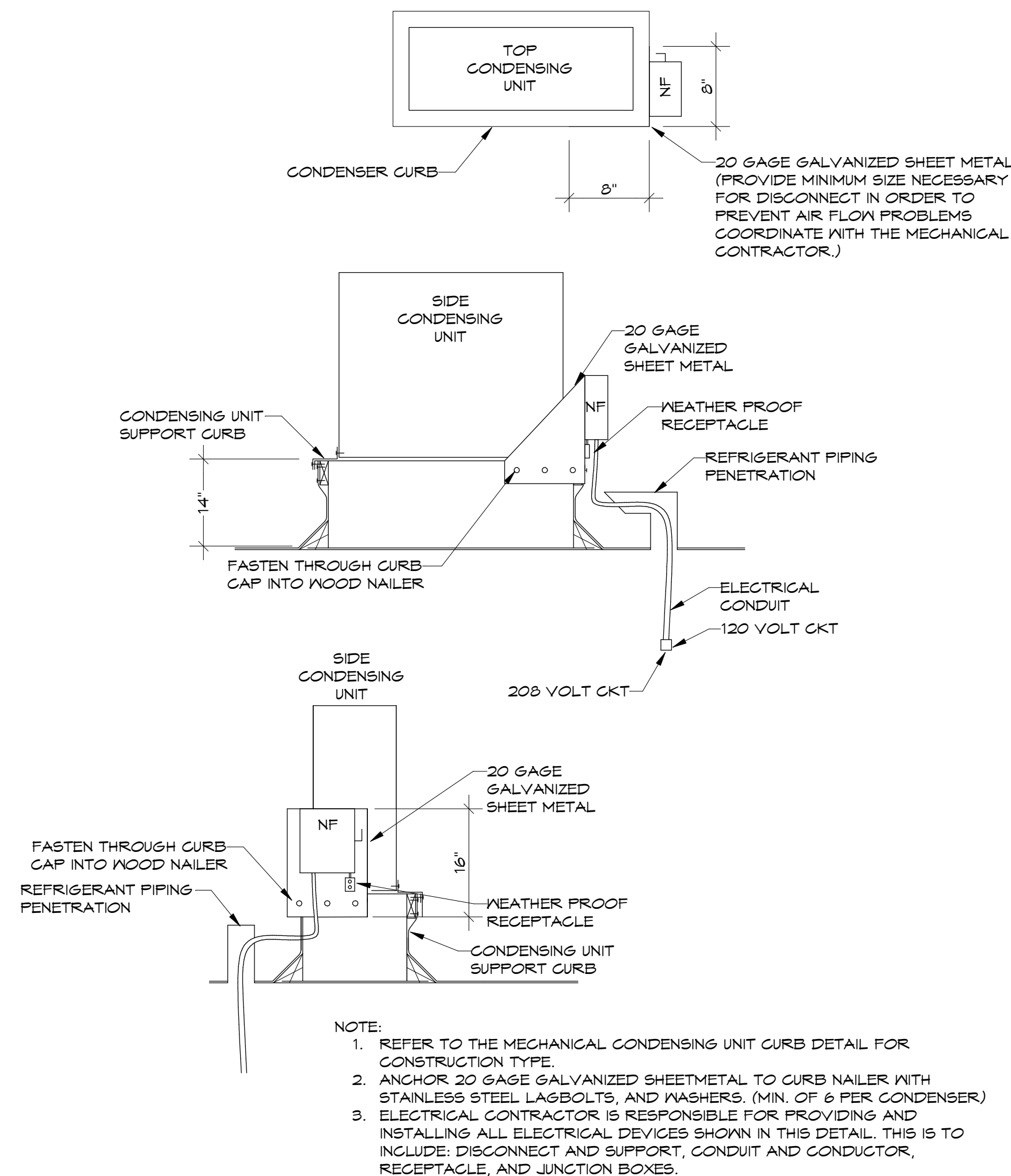


4 FREEZER JB DETAIL

N.T.S.

2 ROOFTOP CONDENSING UNIT DISCONNECT

N.T.S.



5 GENERATOR PAD

N.T.S.

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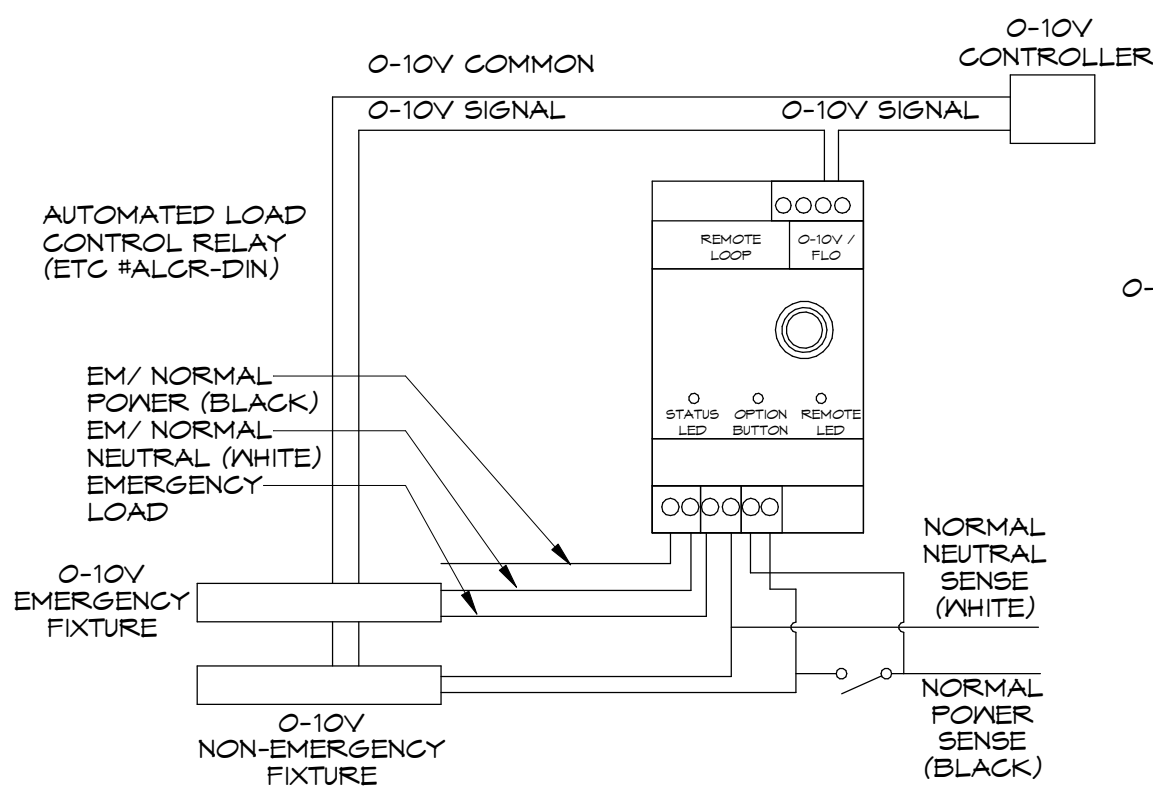
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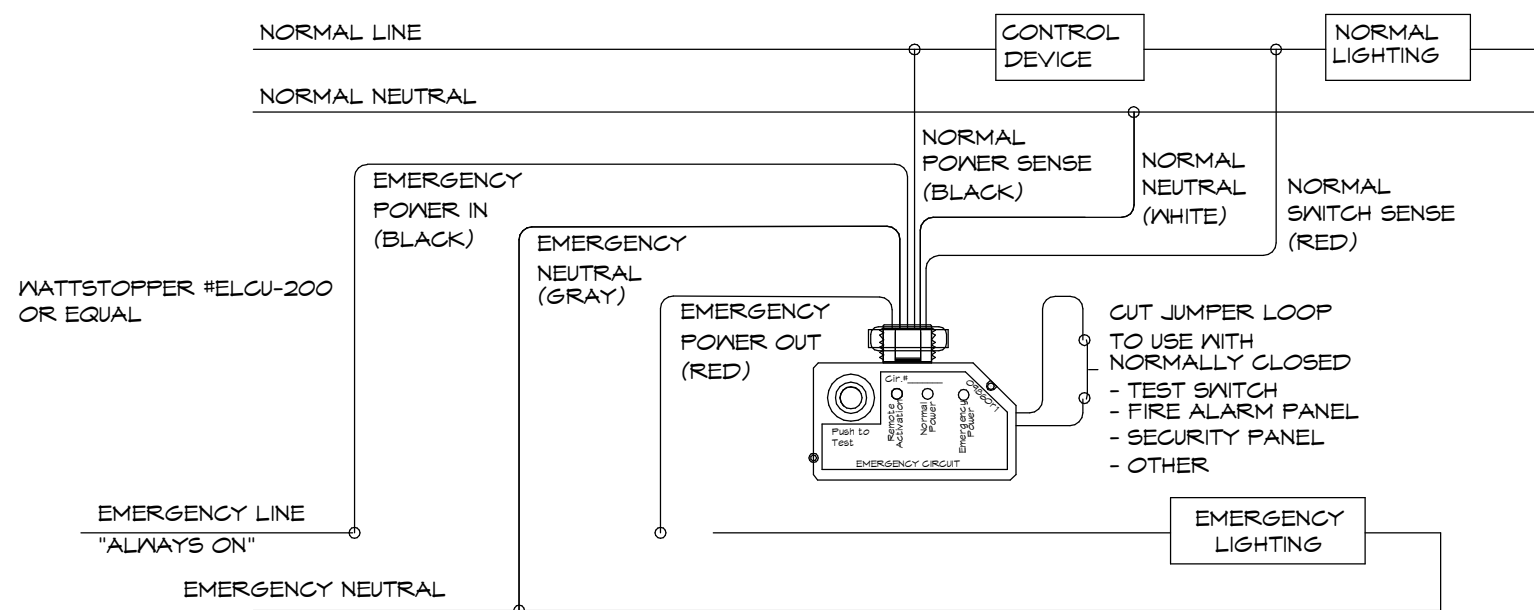
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0-10V FIXTURE CONTROL (ETC #ALCR-DIN ONLY)

1. WHEN NORMAL POWER IS PRESENT AND SWITCH IS CLOSED, BOTH 0-10V CONTROLLED FIXTURE(S) DIM.
2. WHEN NORMAL POWER IS PRESENT AND SWITCH IS OPEN, BOTH 0-10V CONTROLLED FIXTURE(S) TURN OFF.
3. WHEN NORMAL POWER IS LOST OR FIRE ALARM CONNECTION IS BROKEN, ALL FIXTURE(S) TURN TO FULL - 0-10V CONNECTION IS OPENED.

STANDARD WIRING FOR SWITCHED CONTROL OF EMERGENCY LIGHTING ALONG WITH NORMAL LIGHTING

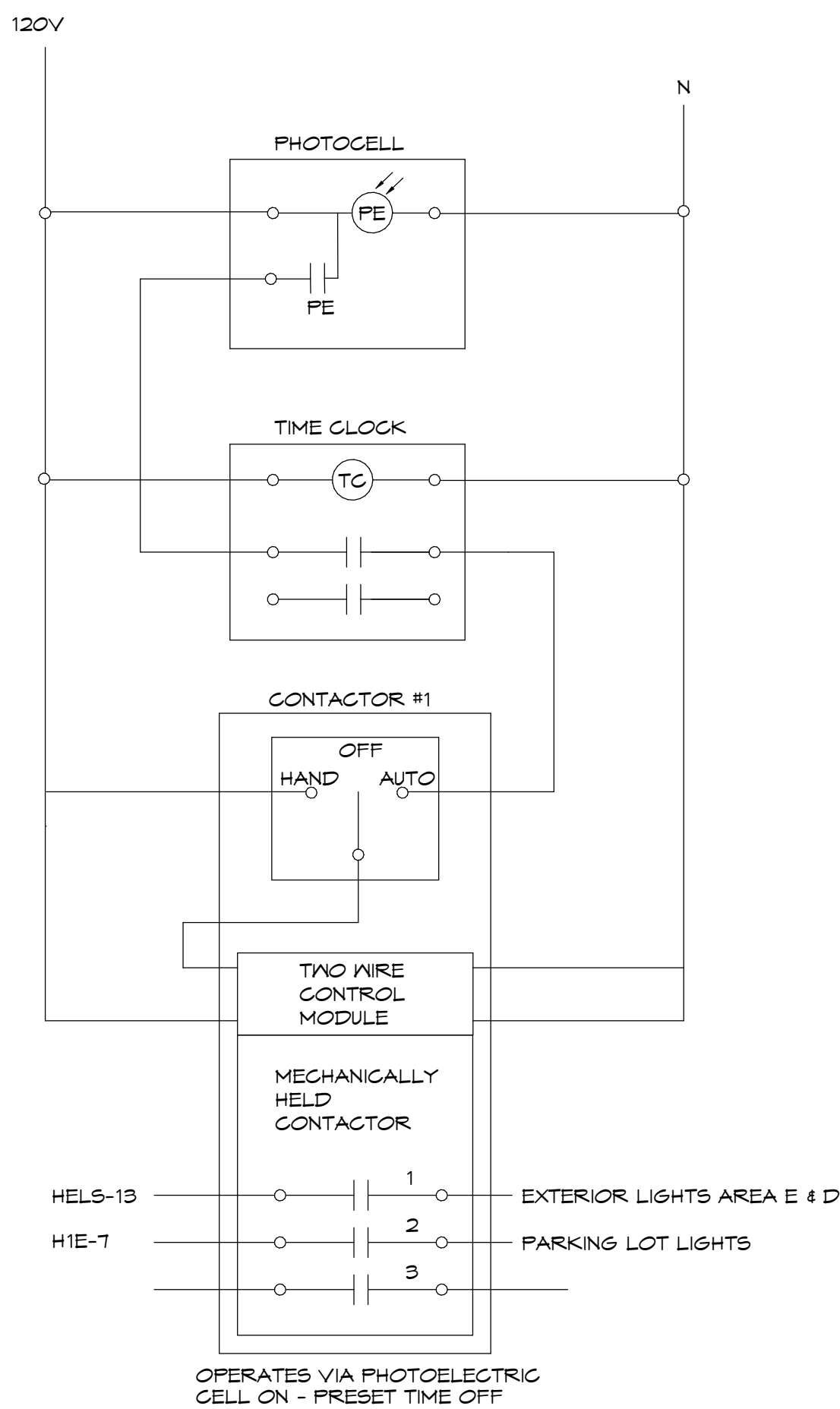


1 EM AUTOMATIC TRANSFER SWITCH DEVICE (DIMMING FIXTURES)

N.T.S.

2 EM AUTOMATIC TRANSFER SWITCH DEVICE(NON-DIMMING)

N.T.S.



NOTES:

1. PHOTOELECTRIC CELL SHALL BE INTERMATIC #K4136M, WITH ADJUSTABLE SENSITIVITY, OR EQUAL. THE CONTRACTOR SHALL ADJUST DURING NIGHT HOURS TO INSURE PROPER OPERATION.
2. PROVIDE ALL ACCESSORIES AND HARDWARE FOR A WORKING INSTALLATION.
3. MOUNT PHOTOELECTRIC CELL FACING NORTH. AVOID ALL ARTIFICIAL LIGHT SOURCES.

LIGHTING CONTACTOR SCHEDULE

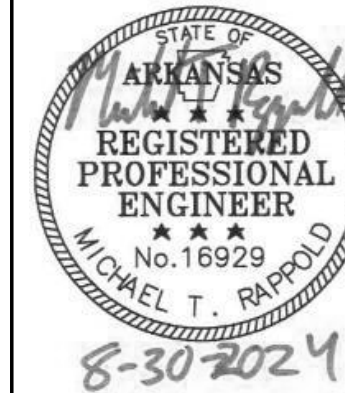
MARK	EQUIPMENT SERVED	CIRCUITS	COIL VOLTAGE	CONTROLLED BY	TYPE	AMP	ENCLOSURE	ACCESSORIES
LC1	EXTERIOR PARKING LOT	HELS-13 H1E-7	120	TIME CLOCK & PE CELL	MECH HELD	30	NEMA 1	HOA, TWO WIRE CONTROL MODULE

HOA - HAND-OFF-AUTO SWITCH; OVER RIDES OTHER CONTROLS

* COORDINATE PRESET "TIME-ON" & "TIME OFF" WITH THE OWNER.

3 LIGHTING CONTACTOR DETAIL

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E3.3

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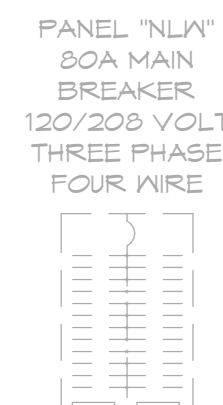
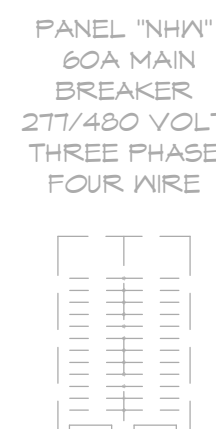
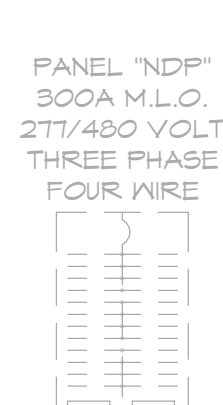
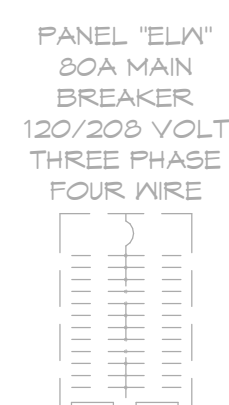
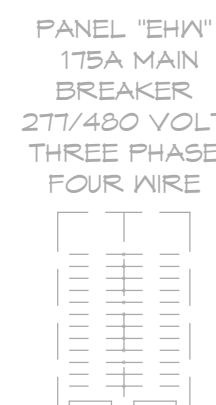


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DEMO RISER LEGEND

- X- -X- EXISTING TO BE DEMOLISHED
- - - EXISTING TO REMAIN



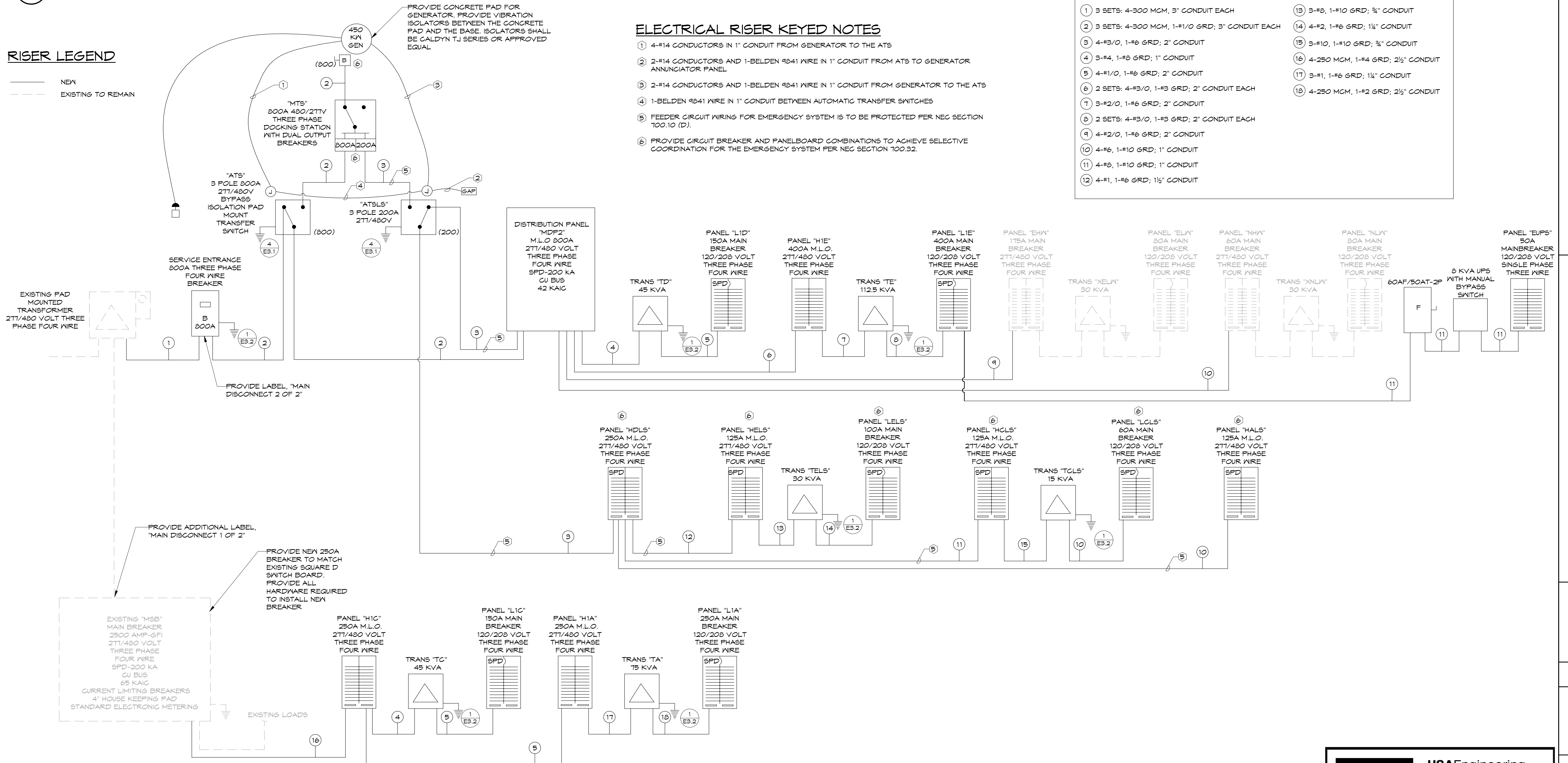
PANELS 'EH1A' AND 'NH1A' TO BE REFEED FROM NEW DISTRIBUTION PANEL 'MDP2', DISCONNECT AND REMOVE EXISTING FEEDS.

1 ELECTRICAL RISER DIAGRAM - DEMOLITION

N.T.S.

RISER LEGEND

- NEW
- - - EXISTING TO REMAIN



ELECTRICAL RISER KEYED NOTES

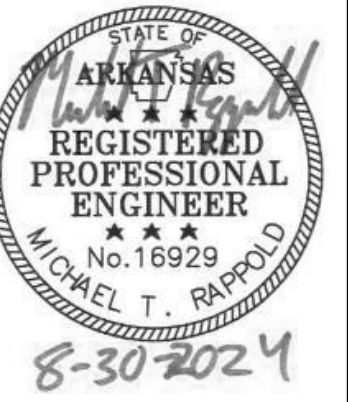
- 4-#14 CONDUCTORS IN 1" CONDUIT FROM GENERATOR TO THE ATS
- 2-#14 CONDUCTORS AND 1-BELDEN 9841 WIRE IN 1" CONDUIT FROM ATS TO GENERATOR ANNUNCIATOR PANEL
- 2-#14 CONDUCTORS AND 1-BELDEN 9841 WIRE IN 1" CONDUIT FROM GENERATOR TO THE ATS
- 1-BELDEN 9841 WIRE IN 1" CONDUIT BETWEEN AUTOMATIC TRANSFER SWITCHES
- FEEDER CIRCUIT WIRING FOR EMERGENCY SYSTEM IS TO BE PROTECTED PER NEC SECTION 700.10 (D).
- PROVIDE CIRCUIT BREAKER AND PANELBOARD COMBINATIONS TO ACHIEVE SELECTIVE COORDINATION FOR THE EMERGENCY SYSTEM PER NEC SECTION 700.32.

FEEDER SCHEDULE

- | | |
|--|--|
| 1 3 SETS: 4-300 MCM, 3" CONDUIT EACH | 13 3-#8, 1-#10 GRD; 3/4" CONDUIT |
| 2 3 SETS: 4-300 MCM, 1-#1/0 GRD; 3" CONDUIT EACH | 14 4-#2, 1-#6 GRD; 1 1/2" CONDUIT |
| 3 4-#3/0, 1-#6 GRD; 2" CONDUIT | 15 3-#10, 1-#10 GRD; 3/4" CONDUIT |
| 4 3-#4, 1-#8 GRD; 1" CONDUIT | 16 4-250 MCM, 1-#4 GRD; 2 1/2" CONDUIT |
| 5 4-#1/0, 1-#6 GRD; 2" CONDUIT | 17 3-#1, 1-#6 GRD; 1 1/2" CONDUIT |
| 6 2 SETS: 4-#3/0, 1-#3 GRD; 2" CONDUIT EACH | 18 4-250 MCM, 1-#2 GRD; 2 1/2" CONDUIT |
| 7 3-#2/0, 1-#6 GRD; 2" CONDUIT | |
| 8 2 SETS: 4-#3/0, 1-#3 GRD; 2" CONDUIT EACH | |
| 9 4-#2/0, 1-#6 GRD; 2" CONDUIT | |
| 10 4-#6, 1-#10 GRD; 1" CONDUIT | |
| 11 4-#8, 1-#10 GRD; 1" CONDUIT | |
| 12 4-#1, 1-#6 GRD; 1 1/2" CONDUIT | |

2 ELECTRICAL RISER DIAGRAM - NEW ADDITIONS

N.T.S.



Hight Jackson
ASSOCIATES
5201 W Village Parkway, Suite 300i Rogers, Arkansas 72761 (479) 464-4965 | www.hjarch.com

AN ADDITION AND REMODEL FOR
Washington Co. Covid Mitigation
FAYETTEVILLE, AR

DRAWN BY:
HA
CHECK BY:
MTR
ISSUE DATE:
08/30/2024

PROJECT NO:
2333
REVISION DATES:
10/04/2024

ELECTRICAL RISER
DIAGRAMS
S H E E T

E4.1

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HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 23-196a

MARK	VOLT	WATT	LAMP		MOUNTING				MANUFACTURER	CATALOG NO.	REMARKS
			NO.	COLOR TEMP	BRKT	PEND	REC	SURF			
A1	UNV	37	--	4000K			X		LITHONIA	26TL-4-48L-A12125-EZ1-LP840	2X4' LED TROFFER, 4800 LUMEN OUTPUT. 0-10V
									COLUMBIA	LJT-24-40-ML-6-F5-A12125-EDU	
A2	UNV	28	--	4000K			X		LITHONIA	26TL-2-33L-A12125-EZ1-LP840	2X2' LED TROFFER, 3300 LUMEN OUTPUT. 0-10V
									COLUMBIA	LJT-22-40-ML-6-F5-A12125-EDU	
A3	UNV	65	--	4000K			X		LITHONIA	26TL-4-88L-A12125-EZ1-LP840	2X4' LED TROFFER, 8800 LUMEN OUTPUT. 0-10V
									COLUMBIA	LJT-24-40-XL-6-F5-A12125-EDU	
B1	UNV	67	--	4000K				X	KENALL	55D-4-0-67L40-DCC-27T-SYM/B-1	2X4' TAMPER RESISTANT SURFACE MOUNT TROFFER. 14-GA WHITE DOOR WITH TORX HEAD SECURITY SCREWS
									PACO	PUSA-M-24-90-8-40-FA1-M5-MV-D	
B2	UNV	45	--	4000K				X	KENALL	55D-2-0-45L40-DCC-27T-SYM/B-1	2X2' TAMPER RESISTANT SURFACE MOUNT TROFFER. 14-GA WHITE DOOR WITH TORX HEAD SECURITY SCREWS
									PACO	PUSA-M-22-60-8-40-FA1-M5-MV-D	
C1	UNV	46	--	4000K				X	KENALL	SCT-4-0-45L40K-DCC-DV-SYM/B-1	1X4' TAMPER RESISTANT SURFACE MOUNT TROFFER. 14-GA WHITE DOOR WITH TORX HEAD SECURITY SCREWS
									ADVANTAGE ENVIRONMENTAL LIGHTING	BAX-14-40-5500L-B16-B16-INS-PA156-187F-M	
D1	UNV	67	--	4000K			X		KENALL	RMCD-4-XX-0-67L40K-DCC-27T-9/SYM-1	2X4' TAMPER RESISTANT RECESSED TROFFER. 14-GA WHITE DOOR WITH TORX HEAD SECURITY SCREWS
									PACO	MRGA2-M-24-F-10-8-40-FA1-M4-MV-D	
E1	UNV	5	--	--					LITHONIA	EXRG M6	EXIT SIGN, UNIVERSAL MOUNT- SEE PLANS FOR NUMBER OF SIDES AND CHEVRONS. REQUIRES UNSWITCHED HOT WIRE.
									COMPASS	CARG	
E2	UNV	5	--	--					KENALL	MMEX-1-0-R-DT-1	SECURITY EXIT SIGN, UNIVERSAL MOUNT- SEE PLANS FOR NUMBER OF SIDES AND CHEVRONS. REQUIRES UNSWITCHED HOT WIRE.
									ADVANTAGE ENVIRONMENTAL LIGHTING	BAB-1-B14-R-XX-M-TH-EM-XL	
ER	--	--	--	--					--	--	EXISTING TO REMAIN FIXTURE.
									--	--	
F1	UNV	32	--	4000K		X			LITHONIA	CLX-L48-5000LM-SEF-FDL-MVOLT-EZ1-40K-80CRI-WH	4' UTILITY STRIP FIXTURE, 5000 LUMEN OUTPUT, SUSPENDED MOUNT.
									COLUMBIA	MPS-4-40-HL-FN-EDU-CM485CF3-KIT	
F2	UNV	47	--	4000K		X			LITHONIA	CLX-L48-10000LM-SEF-FDL-MVOLT-EZ1-40K-80CRI-WH	4' UTILITY STRIP FIXTURE, 10000 LUMEN OUTPUT, SUSPENDED MOUNT.
									COLUMBIA	MPS-4-40-XL-FN-EDU-CM485CF3-KIT	
F3	UNV	70.7	--	4000K			X		LITHONIA	CLX-L48-5000LM-SEF-FDL-MVOLT-EZ1-40K-80CRI-WH	4' UTILITY STRIP FIXTURE, 5000 LUMEN OUTPUT, SURFACE MOUNT.
									COLUMBIA	MPS-4-40-HL-FN-EDU	
G1	UNV	76	--	4000K			X		LITHONIA	2NRTL-6-L48-10000LM-OAV-AFL-MVOLT-6Z1-40K-80CRI-WH	2X4' LED LENSED TROFFER, 9000 LUMEN OUTPUT, .125" THICK FROSTED ACRYLIC LENS. TRIPLE GASKET, NET LOCATION RATED.
									COLUMBIA	LJT-24-40-UL-6-F5-A12125-EDU-G3	
H1	UNV	40	--	4000K			X		FME	CFM-C-LV-4K-B	EXTERIOR SURFACE MOUNT CANOPY LIGHT, 5300 LUMEN OUTPUT.
									BEACON	V5H-30-4KT-UNV-BLT	
I1	UNV	54	--	4000K			X		KENALL	H1212EM-PP-CTBS-50L40K-DV	12"X12" SECURITY WALL PACK, 5000 LUMEN OUTPUT. REFER TO PLANS FOR MOUNTING HEIGHTS.
									EXO	PVL3-1180L-60W-4KT-U-CTBS	
I2	UNV	71	--	4000K			X		LITHONIA	NDGE3-LED-P3-40K-80CRI-R3-MVOLT-SRM	18" WALL PACK, 10000 LUMEN OUTPUT, TYPE 3 DISTRIBUTION, REFER TO PLANS FOR MOUNTING HEIGHTS.
									BEACON	RVL2-160L-50-4KT-3-UNV-CTBS	
I3	UNV	54	--	4000K			X		KENALL	H1212FM-PP-CTBS-50L40K-DV	12"X12" SECURITY CANOPY FIXTURE, 5000 LUMEN OUTPUT. CEILING MOUNT.
									ADVANTAGE ENVIRONMENTAL LIGHTING	BAU-40-5L-B14-B14-INS-CTBS-PP125-CT6187-M	
S1	UNV	262	--	4000K	X				LITHONIA	DSX2-LED-P3-40K-T2M-MVOLT-XX-CTBS	LED POLE LIGHT SINGLE ARRANGEMENT, TYPE 2 DISTRIBUTION, 21000 PROVIDE POLE TO MATCH EXISTING LIGHT POLES, FIELD VERIFY.
									BEACON	VP-ST-2-320-185-4KT-2-UNV-A-CTBS	

NOTE: HOLD ALL INSULATION OFF RECESSED FIXTURES AT A MINIMUM OF 3" TO THE SIDE.
NOTE: EXIT LIGHTS AND EMERGENCY LIGHTS REQUIRES UNSWITCHED HOT WIRE PER MANUFACTURER RECOMMENDATION.
NOTE: FIXTURES MARKED WITH "E" FOR ETC REQUIRED STANDARD FINISHED SELECTED BY THE ARCHITECT.
NOTE: FOR ALL FIXTURES WITH 0-10V DIMMING, PROVIDE LOW VOLTAGE CABLE.
NOTE: FIXTURES MARKED NL REQUIRE UNSWITCHED HOT WIRE.
NOTE: ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL LED AND DRIVER COMBINATIONS THAT WILL PROVIDE THE OWNER WITH A FIVE YEAR WARRANTY ON THE FIXTURE.
NOTE: PROVIDE ALL DIMMER PACKS, AND GENERATOR TRANSFER DEVICES.
NOTE: FIELD VERIFY ALL FIXTURE LENGTHS NOTES AS LENGTH PER PLANS. PROVIDE CONTINUOUS RUNS OF FIXTURES.
NOTE: COORDINATE WITH THE ARCHITECTURAL DRAWINGS AND THE ARCHITECT.

LIGHTING RELAY SCHEDULE			
ROOM	ZONES	RELAY #	CIRCUIT #
E114 FEMALE CELL 12	RESTROOM	R1	H1E-1
	NIGHT LIGHTS	R2	H1E-1
	GENERAL	R3	H1E-1
E116 FEMALE CELL 11	RESTROOM	R4	H1E-1
	NIGHT LIGHTS	R5	H1E-1
	GENERAL	R6	H1E-1
E126 CELL 10	RESTROOM	R7	H1E-1
	NIGHT LIGHTS	R8	H1E-1
	GENERAL	R9	H1E-1
E124 CELL 9	RESTROOM	R10	H1E-1
	NIGHT LIGHTS	R11	H1E-1
	GENERAL	R12	H1E-1
E122 CELL 8	RESTROOM	R13	H1E-1
	NIGHT LIGHTS	R14	H1E-1
	GENERAL	R15	H1E-1
E120 CELL 7	RESTROOM	R16	H1E-1
	NIGHT LIGHTS	R17	H1E-1
	GENERAL	R18	H1E-1
E108 CELL 6	RESTROOM	R19	H1E-3
	NIGHT LIGHTS	R20	H1E-3
	GENERAL	R21	H1E-3
	RESTROOM	R22	H1E-3
E107 CELL 5	NIGHT LIGHTS	R23	H1E-3
	GENERAL	R24	H1E-3
	GENERAL	R25	H1E-3
E101 YARD	GENERAL	R26	H1E-3
E113 YARD	GENERAL	R27	H1E-3
E127 MULTI	GENERAL	R28	H1E-5
E135 MALE MULTI	GENERAL	R29	H1E-5

LIGHTING RELAY SCHEDULE #2			
ROOM	ZONES	RELAY #	CIRCUIT #
B108 MED	GENERAL	R1	H1A-3
B109 MED	GENERAL	R2	H1A-3
B110 MED	GENERAL	R3	H1A-3
B111 MED	GENERAL	R4	H1A-3
B114 YARD	GENERAL	R5	H1A-3

LIGHTING RELAY SCHEDULE #3			
ROOM	ZONES	RELAY #	CIRCUIT #
C109 HOLD	GENERAL	R1	H1C-13
C110 HOLD	GENERAL	R2	H1C-13
C111 HOLD	GENERAL	R3	H1C-13
C112 HOLD	GENERAL	R4	H1C-13



Hight Jackson
ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

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ELECTRICAL SCHEDULES

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HSA JOB # 23-196a

Panel Name: MDP2

Amp Rating: 800 A

Mains: MLO

MCB Rating: N/A

Volts/Phase/Wire: 480/277 Vye / 3 / 4

Manufacturer: SQUARE D

Panel Type: I-LINE

Remarks: CU BUS

Fault Current: SERIES

Ground Fault Breaker: NO

Shunt Trip Breaker: NO

Location: ELEC D102

CKT	Circuit Description	Breaker	Poles	A	B	C	Remarks
1	PANEL "H1E"	400 A	3	69831 VA	68830 VA	63891 VA	REFER TO ELECTRICAL RISER FOR WIRE, GROUND, AND CONDUIT SIZES.
2	*TRANSFORMER "TD"	70 A	3	7120 VA	8100 VA	6912 VA	REFER TO ELECTRICAL RISER FOR WIRE, GROUND, AND CONDUIT SIZES.
3	PANEL "EHV"	175 A	3	15125 VA	15125 VA	15125 VA	REFER TO ELECTRICAL RISER FOR WIRE, GROUND, AND CONDUIT SIZES.
4	*AUTOMATIC TRANSFER SWITCH "ATSLS"	200 A	3	11550 VA	5954 VA	4117 VA	REFER TO ELECTRICAL RISER FOR WIRE, GROUND, AND CONDUIT SIZES.
5	PANEL "NHV"	60 A	3	15125 VA	15125 VA	15125 VA	REFER TO ELECTRICAL RISER FOR WIRE, GROUND, AND CONDUIT SIZES.
6	Spare	400 A	3	0 VA	0 VA	0 VA	--
7	Spare	125 A	3	0 VA	0 VA	0 VA	--
8	Spare	200 A	3	0 VA	0 VA	0 VA	--
9							
10	SPD	60 A	3	0 VA	0 VA	0 VA	--
Total Conn. Load:				119338 VA	113104 VA	105176 VA	
Total Amps:				495 A	413 A	380 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	9486 VA	125.00%	11870 VA	Total Conn. Load: 337617 VA
Receptacle	25440 VA	69.65%	17720 VA	
HVAC	188415 VA	100.00%	188415 VA	Total Est. Demand: 240020 VA
Motor	0 VA	0.00%	0 VA	Total Conn. Current: 409 A
Other	22016 VA	100.00%	22016 VA	Total Est. Demand Current: 289 A
Kitchen	0 VA	0.00%	0 VA	

Notes:
*PROVIDE ELECTRONIC TRIP LSI BREAKER

Panel Name: HDLS

Amp Rating: 250 A

Mains: MLO

MCB Rating: N/A

Volts/Phase/Wire 480/277 Vye / 3 / 4

Manufacturer: SQUARE D

Panel Type: NF

Mounting: Surface

Remarks: CU BUS

Fault Rating: 35K AIC

Fed From: ATSL5, 277 V/480 V, Three Phase, 4...

Location: ELEC D102

Circuit Description	COND. SIZE	WIRE SIZE	GRD. SIZE	# OF Wires	Poles	TRIP	CKT	A	B	C	CKT	TRIP	Poles	# OF Wires	GRD. SIZE	WIRE SIZE	COND. SIZE	Circuit Description
**PANEL "HALS"	*	*	*	5	3	40	1	300	4298		2	100	3	5	*	*	*	**PANEL "HELS"
--	--	--	--	--	--	3			390	4296	4	--	--	--	--	--	--	
--	--	--	--	--	--	5					6	--	--	--	--	--	--	
**PANEL "HCLS"	*	*	*	5	3	50	1	2056	0		8	60	3	--	--	--	--	Spare
--	--	--	--	--	--	4				1379	0	10	--	--	--	--	--	
--	--	--	--	--	--	11					12	--	--	--	--	--	--	
Spare	--	--	--	--	3	50	13	0	0		14	20	1	--	--	--	--	Spare
--	--	--	--	--	--	15			0	0	16	20	1	--	--	--	--	Spare
--	--	--	--	--	--	17				0	18	20	1	--	--	--	--	Spare
Spare	--	--	--	--	3	20	19	0	0		20	20	1	--	--	--	--	Spare
--	--	--	--	--	--	21			0	0	22	20	1	--	--	--	--	Spare
--	--	--	--	--	--	23				0	24	20	1	--	--	--	--	Spare
Spare	--	--	--	--	1	20	25	0	0		26	30	3	--	--	--	--	SPD
Spare	--	--	--	--	1	20	27			0	28	--	--	--	--	--	--	
Spare	--	--	--	--	1	20	29			0	30	--	--	--	--	--	--	
Total Load:								11550 VA	5954 VA	4117 VA								
Total Amps:								43 A	23 A	15 A								

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	180 VA	125.00%	225 VA	Total Conn. Load: 21621 VA
Receptacle	0 VA	0.00%	0 VA	
HVAC	12988 VA	100.00%	12988 VA	Total Est. Demand: 20117 VA
Motor	0 VA	0.00%	0 VA	Total Conn. Current: 27 A
Other	6906 VA	100.00%	6906 VA	Total Est. Demand Current: 24 A
Kitchen	0 VA	0.00%	0 VA	

Notes:
*REFER TO ELECTRICAL RISER FOR WIRE, GROUND, AND CONDUIT SIZES.
*PROVIDE ELECTRONIC TRIP LSI BREAKER

Panel Name: L1D

Amp Rating: 225 A

Mains: MCB

MCB Rating: 150 A

Volts/Phase/Wire 120/208 Vye / 3 / 4

Manufacturer: SQUARE D

Panel Type: NQ

Mounting: Surface

Remarks: CU BUS

Fault Rating: 10K AIC

Fed From: TD

Location: ELEC D102

Circuit Description	COND. SIZE	WIRE SIZE	GRD. SIZE	# OF Wires	Poles	TRIP	CKT	A	B	C	CKT	TRIP	Poles	# OF Wires	GRD. SIZE	WIRE SIZE	COND. SIZE	Circuit Description
R-RMS; D101, D102	¾	12	12	3	1	20	1	720	0		2	20	1	--	--	--	--	Spare
GENERATOR BATTERY CHARGER	¾	12	12	3	1	20	3		600	0	4	20	1	--	--	--	--	Spare
GENERATOR BLOCK HEATER	¾	12	12	4	2	20	5			1000	6	20	1	--	--	--	--	Spare
--	--	--	--	--	--	7		1000	0		8	20	1	--	--	--	--	Spare
EH-11	¾	12	12	4	2	20	9		1500	0	10	20	1	--	--	--	--	Spare
--	--	--	--	--	--	11				1500	12	20	1	--	--	--	--	Spare
EH-6	¾	12	12	4	2	20	13	1500	0		14	20	1	--	--	--	--	Spare
--	--	--	--	--	--	15			1500	0	16	20	1	--	--	--	--	Spare
EF-67	¾	10	10	3	1	20	17			696	18	20	1	--	--	--	--	Spare
EH-7	¾	12	12	4	2	20	19	1500	0		20	20	1	--	--	--	--	Spare
--	--	--	--	--	--	21			1500	0	22	20	1	--	--	--	--	Spare
EH-8	¾	12	12	4	2	20	23			1500	24	20	1	--	--	--	--	Spare
--	--	--	--	--	--	25		1500	0		26	20	1	--	--	--	--	Spare
EH-9	¾	12	12	4	2	20	27		1500	0	28	20	1	--	--	--	--	Spare
--	--	--	--	--	--	29			1500	0	30	20	1	--	--	--	--	Spare
EH-10	¾	12	12	4	2	20	31	1500	0		32	20	1	--	--	--	--	Spare
--	--	--	--	--	--	33			1500	0	34	20	1	--	--	--	--	Spare
EF-68	¾	12	12	3	1	20	35			716	36	20	1	--	--	--	--	Spare
Spare	--	--	--	--	1	20	37	0	0		38	30	3	--	--	--	--	SPD
Spare	--	--	--	--	1	20	39		0	0	40	--	--	--	--	--	--	
Spare	--	--	--	--	1	20	41			0	42	--	--	--	--	--	--	
Total Load:								7720 VA	8100 VA	6912 VA								
Total Amps:								65 A	69 A	58 A								

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	0 VA	0.00%	0 VA	Total Conn. Load: 22732 VA
Receptacle	720 VA	100.00%	720 VA	
HVAC	19412 VA	100.00%	19412 VA	Total Est. Demand: 22732 VA
Motor	0 VA	0.00%	0 VA	Total Conn. Current: 64 A
Other	2600 VA	100.00%	2600 VA	Total Est. Demand Current: 63 A
Kitchen	0 VA	0.00%	0 VA	

Notes:

Panel Name: MDP2

Amp Rating: 800 A

Mains: MLO

MCB Rating: N/A

Volts/Phase/Wire: 480/277 Vye / 3 / 4

Manufacturer: SQUARE D

Panel Type: I-LINE

Remarks: CU BUS

Fault Current: SERIES

Ground Fault Breaker: NO

Shunt Trip Breaker: NO

Location: ELEC D102

CKT	Circuit Description	Breaker	Poles	A	B	C	Remarks
1	PANEL "H1E"	400 A	3	69831 VA	68830 VA	63891 VA	REFER TO ELECTRICAL RISER FOR WIRE, GROUND, AND CONDUIT SIZES.
2	*TRANSFORMER "TD"	70 A	3	7120 VA	8100 VA	6912 VA	REFER TO ELECTRICAL RISER FOR WIRE, GROUND, AND CONDUIT SIZES.
3	PANEL "EHV"	175 A	3	15125 VA	15125 VA	15125 VA	REFER TO ELECTRICAL RISER FOR WIRE, GROUND, AND CONDUIT SIZES.
4	*AUTOMATIC TRANSFER SWITCH "ATSLS"	200 A	3	11550 VA	5954 VA	4117 VA	REFER TO ELECTRICAL RISER FOR WIRE, GROUND, AND CONDUIT SIZES.
5	PANEL "NHV"	60 A	3	15125 VA	15125 VA	15125 VA	REFER TO ELECTRICAL RISER FOR WIRE, GROUND, AND CONDUIT SIZES.
6	Spare	400 A	3	0 VA	0 VA	0 VA	--
7	Spare	125 A	3	0 VA	0 VA	0 VA	--
8	Spare	200 A	3	0 VA	0 VA	0 VA	--
9							
10	SPD	60 A	3	0 VA	0 VA	0 VA	--
Total Conn. Load:				119338 VA	113104 VA	105176 VA	
Total Amps:				495 A	413 A	380 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	9486 VA	125.00%	11870 VA	Total Conn. Load: 337617 VA
Receptacle	25440 VA	69.65%	17720 VA	
HVAC	188415 VA	100.00%	188415 VA	Total Est. Demand: 240020 VA
Motor	0 VA	0.00%	0 VA	Total Conn. Current: 409 A
Other	22016 VA	100.00%	22016 VA	Total Est. Demand Current: 289 A
Kitchen	0 VA	0.00%	0 VA	

Notes:
*PROVIDE ELECTRONIC TRIP LSI BREAKER

Panel Name: HDLS

Amp Rating: 250 A

Mains: MLO

MCB Rating: N/A

Volts/Phase/Wire 480/277 Vye / 3 / 4

Manufacturer: SQUARE D

Panel Type: NF

Mounting: Surface

Remarks: CU BUS

Fault Rating: 35K AIC

Fed From: ATSL5, 277 V/480 V, Three Phase, 4...

Location: ELEC D102

Circuit Description	COND. SIZE	WIRE SIZE	GRD. SIZE	# OF Wires	Poles	TRIP	CKT	A	B	C	CKT	TRIP	Poles	# OF Wires	GRD. SIZE	WIRE SIZE	COND. SIZE	Circuit Description
**PANEL "HALS"	*	*	*	5	3	40	1	300	4298		2	100	3	5	*	*	*	**PANEL "HELS"
--	--	--	--	--	--	3			390	4296	4	--	--	--	--	--	--	
--	--	--	--	--	--	5					6	--	--	--	--	--	--	
**PANEL "HCLS"	*	*	*	5	3	50	1	2056	0		8	60	3	--	--	--	--	Spare
--	--	--	--	--	--	4				1379	0	10	--	--	--	--	--	
--	--	--	--	--	--	11					12	--	--	--	--	--	--	
Spare	--	--	--	--	3	50	13	0	0		14	20	1	--	--	--	--	Spare
--	--	--	--	--	--	15			0	0	16	20	1	--	--	--	--	Spare
--	--	--	--	--	--	17				0	18	20	1	--	--	--	--	Spare
Spare	--	--	--	--	3	20	19	0	0		20	20	1	--	--	--	--	Spare
--	--	--	--	--	--	21			0	0	22	20	1	--	--	--	--	Spare
--	--	--	--	--	--	23				0	24	20	1	--	--	--	--	Spare
Spare	--	--	--	--	1	20	25	0	0		26	30	3	--	--	--	--	SPD
Spare	--	--	--	--	1	20	27			0	28	--	--	--	--	--	--	
Spare	--	--	--	--	1	20	29			0	30	--	--	--	--	--	--	
Total Load:								11550 VA	5954 VA	4117 VA								
Total Amps:								43 A	23 A	15 A								

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	180 VA	125.00%	225 VA	Total Conn. Load: 21621 VA
Receptacle	0 VA	0.00%	0 VA	
HVAC	12988 VA	100.00%	12988 VA	Total Est. Demand: 20117 VA
Motor	0 VA	0.00%	0 VA	Total Conn. Current: 27 A
Other	6906 VA	100.00%	6906 VA	Total Est. Demand Current: 24 A
Kitchen	0 VA	0.00%	0 VA	

Notes:
*REFER TO ELECTRICAL RISER FOR WIRE, GROUND, AND CONDUIT SIZES.
*PROVIDE ELECTRONIC TRIP LSI BREAKER

Panel Name: L1D

Amp Rating: 225 A

Mains: MCB

MCB Rating: 150 A

Volts/Phase/Wire 120/208 Vye / 3 / 4

Manufacturer: SQUARE D

Panel Type: NQ

Mounting: Surface

Remarks: CU BUS

Fault Rating: 10K AIC

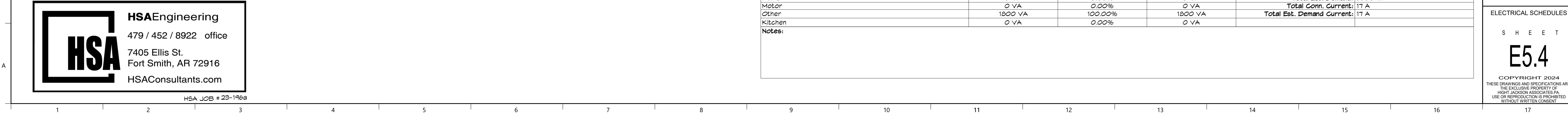
Fed From: TD

Location: ELEC D102

Circuit Description	COND. SIZE	WIRE SIZE	GRD. SIZE	# OF Wires	Poles	TRIP	CKT	A	B	C	CKT	TRIP	Poles	# OF Wires	GRD. SIZE	WIRE SIZE	COND. SIZE	Circuit Description
R-RMS; D101, D102	¾	12	12	3	1	20	1	720	0		2	20	1	--	--	--	--	Spare

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521
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Panel Name: L1C		PANEL SCHEDULE																			
Amp Rating: 225 A		Manufacturer: SQUARE D								Fault Rating: 10K AIC											
Mains: MCB		Panel Type: NQ								Fed From: TC											
MCB Rating: 150 A		Mounting: Surface								Location: ELEC C102											
Volts/Phase/Wire 120/208 Nye / 3 / 4		Remarks: CU BUS																			
Circuit Description	COND SIZE	WIRE SIZE	GRD SIZE	# OF Wires	Poles	TRIP	CKT	A		B		C		CKT	TRIP	Poles	# OF Wires	GRD SIZE	WIRE SIZE	COND SIZE	Circuit Description
R-RM: C104 COMP	¾	12	12	3	1	20	1	900	1500					2	20	2	4	12	12	¾	EH-5
R-RM: C105 BAC	¾	12	12	3	1	20	3			1000	1500			4	---	---	---	---	---	---	---
R-RM: C106 MED	¾	12	12	3	1	20	5					900	360	6	20	1	3	12	12	¾	R-RM: C101 BOOKING
R-RM: C101 BOOKING - COPIER	¾	12	12	3	1	20	7	600	930					8	20	1	3	12	12	¾	R-RM: C113 UNI
R-RM: C101 BOOKING	¾	12	12	3	1	20	9			1080	540			10	20	1	3	12	12	¾	R-ROOF
R-RM: C101 BOOKING - COPIER	¾	12	12	3	1	20	11					540	0	12	20	1	---	---	---	---	Spare
R-RM: C101 BOOKING	¾	12	12	3	1	20	13	600	0					14	20	1	---	---	---	---	Spare
R-RM: C101 BOOKING - X-RAY	¾	12	12	3	1	20	15			940	0			16	20	1	---	---	---	---	Spare
R-RM: C101 BOOKING - X-RAY	¾	12	12	3	1	20	17					180	0	18	20	1	---	---	---	---	Spare
R-RM: C117 PROP	¾	10	10	3	1	20	19	900	0					20	20	1	---	---	---	---	Spare
R-RM: C118 INT	¾	10	10	3	1	20	21			720	0			22	20	1	---	---	---	---	Spare
R-RM: C118 INT	¾	12	12	3	1	20	23					720	0	24	20	1	---	---	---	---	Spare
R-RM: A118	¾	10	10	3	1	20	25	720	0					26	20	1	---	---	---	---	Spare
R-RM: A120	¾	10	10	3	1	20	27			540	0			28	20	1	---	---	---	---	Spare
R-RMS: B101, B102	¾	10	10	3	1	20	29					1080	0	30	20	1	---	---	---	---	Spare
R-RM: B104 OFFICE	¾	10	10	3	1	20	31	720	0					32	20	1	---	---	---	---	Spare
R-RM: B103 DISCIP	¾	10	10	3	1	20	33			720	0			34	20	1	---	---	---	---	Spare
RTU-T7	¾	10	10	4	2	25	35					1768	0	36	20	1	---	---	---	---	Spare
---	---	---	---	---	---	---	37	1768	0					38	30	3	---	---	---	---	SFD
EF-63, -64, 66, -70	¾	12	12	3	1	20	39			174	0			40	---	---	---	---	---	---	---
EF-69, IL-8	¾	12	12	3																	



Panel Name: HCLS

Amp Rating: 125 A

Mains: M.L.O.

MCB Rating: N/A

Volts/Phase/Wire 480/277 Vye / 3 / 4

PANEL SCHEDULE

Manufacturer: SQUARE D

Panel Type: NF

Mounting: Surface

Remarks: CU BUS

Fault Rating: 10K AIC

Fed From: HDLS

Location: ELEG C102

Circuit Description	COND. SIZE	WIRE SIZE	GRD. SIZE	# OF Wires	Poles	TRIP	CKT	A	B	C	CKT	TRIP	Poles	# OF Wires	GRD. SIZE	WIRE SIZE	COND. SIZE	Circuit Description
**TRANSFORMER "CLS"	*	*	*	4	3	25	1	1420	O			2	20	1	---	---	---	Spare
---	---	---	---	---	---	---	3					4	20	1	---	---	---	Spare
---	---	---	---	---	---	---	5					6	20	1	---	---	---	Spare
EMERGENCY LIGHTING BOOKING	%	12	12	3	1	20	7	630	O			8	20	1	---	---	---	Spare
**EMERGENCY LIGHTING EXTERIOR	%	10	10	3	1	20	9					10	20	1	---	---	---	Spare
Spare	---	---	---	---	---	---	11					12	20	1	---	---	---	Spare
Spare	---	---	---	---	---	---	13	O	O			14	30	3	---	---	---	SFPD
Spare	---	---	---	---	---	---	15					16	---	---	---	---	---	
Spare	---	---	---	---	---	---	17					18	---	---	---	---	---	
Total Load:								2056 VA	1379 VA	756 VA								
Total Amps:								8 A	5 A	3 A								

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	20 VA	125.00%	25 VA	
Receptacle	0 VA	0.00%	0 VA	
HVAC	816 VA	100.00%	816 VA	
Motor	0 VA	0.00%	0 VA	
Other	1602 VA	100.00%	1602 VA	
Kitchen	0 VA	0.00%	0 VA	
				Total Conn. Load: 4190 VA
				Total Est. Demand: 2439 VA
				Total Conn. Current: 5 A
				Total Est. Demand Current: 3 A

Notes:

*REFER TO ELECTRICAL RISER FOR WIRE, GROUND, AND CONDUIT SIZES.

**PROVIDE ELECTRONIC TRIP LSI BREAKER

***CIRCUIT CONTROLLED VIA PHOTOCELL ON, TIME CLOCK OFF.

Panel Name: LCLS

Amp Rating: 100 A

Mains: MCB ELECTRONIC TRIP LSI

MCB Rating: 60 A

Volts/Phase/Wire 120/208 Nye / 3 / 4

PANEL SCHEDULE

Manufacturer: SQUARE D

Panel Type: NQ

Mounting: Surface

Remarks: CU BUS

Fault Rating: 10K AIC

Fed From: TGLS

Location: ELEG C102

Circuit Description	COND. SIZE	WIRE SIZE	GRD. SIZE	# OF Wires	Poles	TRIP	CKT	A	B	C	CKT	TRIP	Poles	# OF Wires	GRD. SIZE	WIRE SIZE	COND. SIZE	Circuit Description
SCSF-T	%	12	12	3	1	20	1	1176	O			2	20	1	---	---	---	Spare
SCEF-T	%	12	12	3	1	20	3			696	O	4	20	1	---	---	---	Spare
MOTORIZED DAMPERS	%	12	12	3	1	20	5					6	20	1	---	---	---	Spare
TIME CLOCK	%	12	12	3	1	20	7	300	O			8	20	1	---	---	---	Spare
SCSF-I1	%	10	10	3	1	20	9			O	O	10	20	1	---	---	---	Spare
EP-T1	%	10	10	3	1	20	11				696	O	12	20	1	---	---	Spare
MOTORIZED DAMPERS	%	10	10	3	1	20	13	60	O			14	20	1	---	---	---	Spare
Spare	---	---	---	---	---	20	15			O	O	16	20	1	---	---	---	Spare
Spare	---	---	---	---	---	1	17				O	O	18	20	1	---	---	Spare
Spare	---	---	---	---	---	1	19	O	O			20	20	1	---	---	---	Spare
Spare	---	---	---	---	---	1	21			O	O	22	20	1	---	---	---	Spare
Spare	---	---	---	---	---	1	23				O	O	24	20	1	---	---	Spare
Spare	---	---	---	---	---	1	25	O	O			26	30	3	---	---	---	Spare
Spare	---	---	---	---	---	1	27			O	O	28	---	---	---	---	---	
Spare	---	---	---	---	---	1	29				O	O	30	---	---	---	---	
Total Load:								1480 VA		696 VA		756 VA						
Total Amps:								12 A		6 A		6 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	O VA	0.00%	O VA	
Receptacle	O VA	0.00%	O VA	
HVAC	816 VA	100.00%	816 VA	Total Conn. Load: 2432 VA
Motor	O VA	0.00%	O VA	Total Est. Demand: 1116 VA
Other	300 VA	100.00%	300 VA	Total Conn. Current: 8 A
Kitchen	O VA	0.00%	O VA	Total Est. Demand Current: 3 A

Notes:

PANEL SCHEDULE																			
Panel Name: EUPS						Manufacturer: SQUARE D						Fault Rating: SERIES							
Amp Rating: 100 A						Panel Type: NQ						Fed From: UPS							
Mains: MCB						Mounting: Surface						Location: SECURITY ROOM E139							
MCB Rating: 50 A						Remarks: CU BUS													
Volts/Phase/Wire 120/208 Single / 1 / 3																			
Circuit Description	COND. SIZE	WIRE SIZE	GRD. SIZE	# OF	Poles	TRIP	CKT	A		B		CKT	TRIP	Poles	# OF Wires	GRD. SIZE	WIRE SIZE	COND. SIZE	Circuit Description
R-RM: E123 CONTROL	%	12	12	3	1	20	1	900	0	900	0	2	20	1	---	---	---	---	Spare
R-RM: E123 CONTROL	%	12	12	3	1	20	3					4	20	1	---	---	---	---	Spare
R-RM: E139 SECURITY	%	12	12	3	1	20	5	360	0			6	20	1	---	---	---	---	Spare
R-RM: E139 SECURITY	%	12	12	3	1	20	7			360	0	8	20	1	---	---	---	---	Spare
R-RM: E123 CONTROL	%	10	10	3	1	20	9	360	0			10	20	1	---	---	---	---	Spare
R-RM: E123 CONTROL	%	10	10	3	1	20	11			360	0	12	20	1	---	---	---	---	Spare
R-RM: E123 CONTROL	%	10	10	3	1	20	13	360	0			14	20	1	---	---	---	---	Spare
Spare	---	---	---	---	1	20	15			0	0	16	20	1	---	---	---	---	Spare
Spare	---	---	---	---	1	20	17	0	0			18	20	1	---	---	---	---	Spare
Total Load:								1980 VA		1620 VA									
Total Amps:								19 A		16 A									
Load Classification						Connected Load		Demand Factor		Estimated Demand		Panel Totals							
Lighting						0 VA		0.00%		0 VA									
Receptacle						1200 VA		100.00%		1800 VA		Total Conn. Load: 3600 VA							
HVAC						0 VA		0.00%		0 VA		Total Est. Demand: 3600 VA							
Motor						0 VA		0.00%		0 VA		Total Conn. Current: 17 A							
Other						1200 VA		100.00%		1800 VA		Total Est. Demand Current: 17 A							
Kitchen																			



AN ADDITION AND REMODEL FOR
Washington Co. Covid Mitigation
FAYETTEVILLE, AR

DRAWN BY.
HA

CHECK BY.
MTR

ISSUE DATE
08/30/2024

PROJECT NO.
2333

REVISION DATES
10/04/2024

ELECTRICAL SCHEDULES

S H E E T

E5.4

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Amp Rating: 250 A
Mains: MLO
MCB Rating: N/A
3/Phase/Wire 480/277 Wye / 3 / 4

Manufacturer: SQUARE D
Panel Type: NQ
Mounting: Surface
Remarks: CU BUS

Fault Rating: SERIES
Fed From: H1C
Location: STORAGE A108

[illegible]

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	1314 VA	125.00%	1718 VA	
Receptacle	17040 VA	79.34%	13520 VA	Total Conn. Load: 104566 VA
HVAC	46182 VA	100.00%	46182 VA	Total Est. Demand: 101389 VA
Motor	0 VA	0.00%	0 VA	Total Conn. Current: 126 A
Other	39910 VA	100.00%	39910 VA	Total Est. Demand Current: 122 A
Kitchen	0 VA	0.00%	0 VA	

Notes:
*REFER TO ELECTRICAL RISER FOR WIRE, GROUND, AND CONDUIT SIZES
**PROVIDE ELECTRONIC TRIP LSI BREAKER

Amp Rating: 400 A
Mains: MCB
MCB Rating: 250 A
3/Phase/Wire 120/208 Wye / 3 / 4

Manufacturer: SQUARE D
Panel Type: NQ
Mounting: Surface
Remarks: CU BUS

Fault Rating: 10K AIC
Fed From: TA
Location: STORAGE A108

Circuit Description	COND	WIRE	GRD.	# OF	Poles	TRIP	CKT	A		B		C		CKT	TRIP	Poles	# OF	GRD.	WIRE	COND	
	SIZE	SIZE	SIZE	Wires				SIZE	SIZE	SIZE	SIZE	SIZE									
R-RM: B105 STORAGE	%	10	10	3	1	20	1	1080	1080					2	20	1	3	12	12	%	R-RM: 041 GALLERY
R-RM: B107 COMP	%	10	10	3	1	20	3			540	3328			4	40	2	4	10	8	%	FREEZER EVAP COIL
R-RM: B107 COMP	%	10	10	3	1	20	5					360	3328	6	--	--	--	--	--	--	--
R-RMS: B106, B107	%	10	10	3	1	20	7	935	400					8	20	1	3	12	12	%	COOLER EVAP COIL
R-RMS: B107, B112, B113	%	12	12	3	1	20	9			550	2544			10	30	3	5	10	10	%	COOLER CONDENSER
R-RM: 051 JAIL ADMIN.	%	12	12	3	1	20	11					540	2544	12	--	--	--	--	--	--	--
R-RM: 057 JAIL ADMIN.	%	12	12	3	1	20	13	720	2544					14	--	--	--	--	--	--	--
R-RM: 058 FILES	%	12	12	3	1	20	15			540	6000			16	40	3	--	8	3	1%	FREEZER CONDENSER
R-RM: 051 BREAKROOM	%	12	12	3	1	20	17					540	6000	18	--	--	--	--	--	--	--
R-RM: A111 COMMIS	%	12	12	3	1	20	19	910	6000					20	--	--	--	--	--	--	--
R-RM: A112 SUPPLY	%	12	12	3	1	20	21			720	180			22	20	1	3	12	12	%	R-RM: A106 COOLER
R-RM: A108 STORAGE	%	12	12	3	1	20	23					360	1200	24	20	1	3	12	12	%	HEAT TAPE
R-RM: A108 STORAGE	%	12	12	3	1	20	25	360	1663					26	20	2	4	12	12	%	MS1-1, MS1-2, MS5, CU-1
RM: A108 STORAGE - OVERHEAD...	%	12	12	3	1	20	27			900	1663			28	--	--	--	--	--	--	--
R-RM: A108 STORAGE	%	12	12	3	1	20	29					540	0	30	20	1	--	--	--	--	Spare
R-RM: 056 LT.	%	12	12	3	1	20	31	360	516					32	20	1	3	12	12	%	GUH-1
R-RM: 041 GALLERY	%	10	10	3	1	20	33			900	0			34	20	1	--	--	--	--	Spare
R-RM: A122 COURT ROOM	%	10	10	3	1	20	35					1080	0	36	20	1	--	--	--	--	Spare
FREEZER LIGHTS AND HEATER	%	12	12	3	1	20	37	720	0					38	20	1	--	--	--	--	Spare
COOLER LIGHTS	%	12	12	3	1	20	39			720	0			40	20	1	--	--	--	--	Spare
R-RM: 041 GALLERY - FLOOR BOX	%	10	10	3	1	20	41					1080	0	42	20	1	--	--	--	--	Spare
EF-76	%	12	12	3	1	20	43	50	0			1200	0	44	20	1	--	--	--	--	Spare
*R-RM: A108 STORAGE	%	12	12	3	1	20	45							46	20	1	--	--	--	--	Spare
*R-RM: A108 STORAGE	%	12	12	3	1	20	47					1200	0	48	20	1	--	--	--	--	Spare
*R-RM: A108 STORAGE	%	12	12	3	1	20	49	1200	0					50	20	1	--	--	--	--	Spare
*R-RM: A108 STORAGE	%	12	12	3	1	20	51			1200	0			52	20	1	--	--	--	--	Spare
COOLER EVAP COIL	%	12	12	3	1	20	53					400	0	54	20	1	--	--	--	--	Spare
R-ROOF	%	10	10	3	1	20	55	360	0					56	20	1	--	--	--	--	Spare
EF-74, CP-2 WATER HEATER	%	12	12	3	1	20	57			114	0			58	20	1	--	--	--	--	Spare
UH-2	%	12	12	3	1	20	59					696	0	60	20	1	--	--	--	--	Spare
EF-75	%	12	12	3	1	20	61	1656	0					62	20	1	--	--	--	--	Spare
EF-76	%	12	12	3	1	20	63			1656	0			64	20	1	--	--	--	--	Spare
EF-65	%	10	10	3	1	20	65					122	0	66	20	1	--	--	--	--	Spare
Spare	--	--	--	--	2	40	67	0	0					68	20	1	--	--	--	--	Spare
Spare	--	--	--	--	--	--	69			0	0			70	20	1	--	--	--	--	Spare
Spare	--	--	--	--	1	20	71					0	0	72	20	1	--	--	--	--	Spare
Spare	--	--	--	--	1	20	73	0	0					74	20	1	--	--	--	--	Spare
Spare	--	--	--	--	1	20	75			0	0			76	20	1	--	--	--	--	Spare
Spare	--	--	--	--	1	20	77					0	0	78	20	1	--	--	--	--	Spare
Spare	--	--	--	--	1	20	79	0	0					80	30	3	--	--	--	--	SFD
Spare	--	--	--	--	1	20	81			0	0			82	--	--	--	--	--	--	--
Spare	--	--	--	--	1	20	83					0	0	84	--	--	--	--	--	--	--

		Total Amps:	112 A	190 A	167 A	
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals		
Lighting	0 VA	0.00%	0 VA			
Receptacle	11040 VA	74.34%	13520 VA	Total Conn. Load: 63299 VA		
HVAC	7456 VA	100.00%	7456 VA	Total Est. Demand: 54774 VA		
Motor	0 VA	0.00%	0 VA	Total Conn. Current: 167 A		
Other	33203 VA	100.00%	33203 VA	Total Est. Demand Current: 166 A		
Kitchen	0 VA	0.00%	0 VA			

Notes:
*REQUIRES GFCI BREAKER

Amp Rating: 125 A
Mains: MLO
MCB Rating: N/A
/Phase/Wire 480/277 Wye / 3 / 4

Manufacturer: SQUARE D
Panel Type: NF
Mounting: Surface
Remarks: CU BUS

Fault Rating: 10K AIC
Fed From: HDLS
Location: STORAGE A108

Circuit Description	COND. SIZE	WIRE SIZE	GRD. SIZE	# OF Wires	Poles	TRIP	CKT	A	B	C	KCT	TRIP	Poles	# OF Wires	GRD. SIZE	WIRE SIZE	COND. SIZE	Circuit Description
EMERGENCY LIGHTING AREA A	%	12	12	3	1	20	1	300	O			2	20	1	--	--	--	Spare
EMERGENCY LIGHTING AREA B	%	12	12	3	1	20	3		390	O		4	20	1	--	--	--	Spare
Spare	--	--	--	--	1	20	5				O	O	6	20	1	--	--	Spare
Spare	--	--	--	--	1	20	7	O	O				8	20	1	--	--	Spare
Spare	--	--	--	--	1	20	9		O	O			10	20	1	--	--	Spare
Spare	--	--	--	--	1	20	11				O	O	12	20	1	--	--	Spare
Spare	--	--	--	--	1	20	13	O	O				14	30	3	--	--	SPD
Spare	--	--	--	--	1	20	15			O	O		16	--	--	--	--	--
Spare	--	--	--	--	1	20	17				O	O	18	--	--	--	--	--
Total Load:								300 VA	390 VA	O VA								
Total Amps:								1 A	2 A	O A								

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	30 VA	125.00%	38 VA	
Receptacle	0 VA	0.00%	0 VA	Total Conn. Load: 690 VA
HVAC	0 VA	0.00%	0 VA	Total Est. Demand: 698 VA
Motor	0 VA	0.00%	0 VA	Total Conn. Current: 1 A
Other	660 VA	100.00%	660 VA	Total Est. Demand Current: 1 A
Kitchen	0 VA	0.00%	0 VA	

Amp Rating: 80 A
Mains: MCB
MCB Rating: 80 A
/Phase/Wire 120/208 Wye / 3 / 4

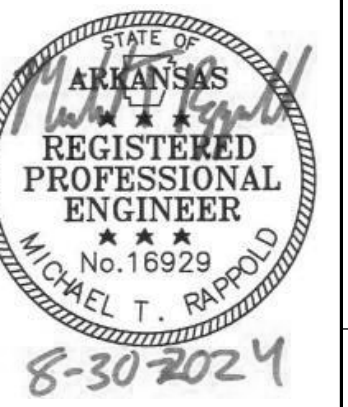
Manufacturer: GE
Panel Type: SERIES A
Mounting: Surface
Remarks: EXISTING

Fault Rating: EXISTING
Fed From: XNLW
Location: MECH E137

[illegible]

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	0 VA	0.00%	0 VA	
Receptacle	1080 VA	100.00%	1080 VA	Total Conn. Load: 11208 VA
HVAC	0 VA	0.00%	0 VA	Total Est. Demand: 16308 VA
Motor	0 VA	0.00%	0 VA	Total Conn. Current: 48 A
Other	15228 VA	100.00%	15228 VA	Total Est. Demand Current: 45 A
Kitchen	0 VA	0.00%	0 VA	

Notes:
*PROVIDE NEW BREAKER
**PROVIDE GFCI BREAKER



Hight Jackson
ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjtarch.com

AN ADDITION AND REMODEL FOR
Washington Co. Covid Mitigation
FAYETTEVILLE, AR

DRAWN BY:
HA

CHECK BY:
MTR

ISSUE DATE
08/30/2024

PROJECT NO.	2333
REVISION DATES	10/04/2024

ELECTRICAL SCHEDULES

S H E E T

E5.5

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HSA JOB # 23-196a

SYMBOLS LEGEND - ELECTRONIC SECURITY SYSTEMS

NOT ALL SYMBOLS WILL BE USED ON THIS PROJECT

VIDEO SURVEILLANCE SYSTEMS

- NEW IP FIXED CAMERA
- WALL BRACKET SYMBOL INDICATES SECURITY DEVICE SHALL BE WALL MOUNTED, HEIGHT AS INDICATED

EQUIPMENT ABBREVIATIONS

- VMS VIDEO MANAGEMENT SERVER
- VW# VIDEO WORK STATION (NUMBER REPRESENTS INSTANCE)
- TS# TOUCHSCREEN WORK STATION (NUMBER REPRESENTS INSTANCE)
- VVS VIDEO VISITATION STATION
- ICS INTERCOM CONTROL SYSTEM
- ECS ELECTRONIC CONTROL SYSTEM
- ACS ACCESS CONTROL SYSTEM
- ACP ACCESS CONTROL PANEL
- UPS UNINTERRUPTIBLE POWER SUPPLY

SUBSCRIPTS FOR ALL SYMBOLS:

- C CONDUIT
- F FRAME MOUNTED SECURITY DEVICE
- S SURFACE MOUNTED
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- E EXISTING TO REMAIN/MAINTAINED
- EA EXISTING TO BE ABANDONED IN PLACE
- ER EXISTING TO BE REMOVED AND TURNED OVER TO OWNER
- ERR EXISTING TO BE REMOVED, RELOCATED AND RECONNECTED
- N EXISTING CAMERA LOCATION, REPLACED WITH NEW CAMERA
- R RELOCATED EXISTING

ELECTRONIC/DOOR/ACCESS CONTROL SYSTEMS

- ELECTRIC DOOR STATUS INDICATOR DEVICE. SEE HARDWARE AND DOOR SCHEDULE FOR FUNCTIONAL DESCRIPTION
- ELECTRIC CONTROLLED AND MONITORED DOOR. SEE HARDWARE AND DOOR SCHEDULES FOR FUNCTIONAL DESCRIPTION
- INTERLOCK GROUP
- TOUCHSCREEN STATION
- ELECTRONIC CONTROL SYSTEM EQUIPMENT
- CARD READER FOR ACCESS CONTROL
- REQUEST TO EXIT SWITCH (MICRO-SWITCH) TO BE BUILT IN THE LOCK AND PROVIDED BY THE DOOR HARDWARE CONTRACTOR
- REQUEST TO EXIT SWITCH DESK/SURFACE MOUNTED
- REQUEST TO EXIT PUSHBUTTON WALL MOUNTED

COMMUNICATION SYSTEMS

- INTERCOM STATION, WALL MOUNTED, WITH CALL-IN PUSH-BUTTON
- INTERCOM STATION, FRAME MOUNTED
- INTERCOM STATION, FENCE POLE MOUNTED
- STAFF INTERCOM STATION, DESK MOUNTED
- PAGING SPEAKER, CEILING MOUNTED, RECESSED, SECURITY TYPE
 - INMATE DAYROOMS AND RESIDENCE AREAS: TWO-WAY TALK-BACK PAGING.
 - CORRIDORS AND GENERAL CIRCULATION: ONE-WAY PAGING.
- PAGING SPEAKER, WALL MOUNTED, RECESSED, SECURITY TYPE, HEIGHT AS INDICATED
 - INMATE DAYROOMS AND RESIDENCE AREAS: TWO-WAY TALK-BACK PAGING.
 - CORRIDORS AND GENERAL CIRCULATION: ONE-WAY PAGING.
- PAGING HORN, WALL MOUNTED, RECESSED WITH VANDAL RESISTANT GRILL, HEIGHT AS INDICATED

MISCELLANEOUS

- TRANSIENT SURGE PROTECTOR
- 120VAC DUPLEX RECEPTACLE BY DIVISION 26. NORMAL POWER CIRCUIT
- 120VAC DUPLEX RECEPTACLE BY DIVISION 26. EMERGENCY POWER CIRCUIT
- 120VAC DUPLEX RECEPTACLE BY DIVISION 26. UPS POWER CIRCUIT
- ELECTRICAL CONNECTION BY DIVISION 26. EMERGENCY POWER CIRCUIT. CHARACTERISTICS AS NOTED
- ELECTRICAL CONNECTION BY DIVISION 26. UPS POWER CIRCUIT. CHARACTERISTICS AS NOTED
- PULL BOX. (NO TERMINATION'S PERMITTED PULL POINT ONLY.)
- EQUIPMENT CABINET
- EQUIPMENT ENCLOSURE
- GROUNDING ELECTRODE & CONDUCTOR
- VEHICLE DETECTION FOR INTERCOM CALL INITIATION
- LOOP DETECTOR

WIRE TYPE LEGEND

- DATA CABLE/CAT 6
- FIBER OPTIC CABLE

NOTES:

- PROVIDE CONDUIT, WIREWAYS, BOXES, FITTINGS AND SUPPORTS FOR A COMPLETE RACEWAY SYSTEMS FOR THE ELECTRONIC SECURITY SYSTEM. WHERE PULLBOXES ARE PROVIDED IN NON-ACCESSIBLE AREAS, PROVIDE ACCESS PANELS.
- ALL ELECTRONIC SECURITY EQUIPMENT TO BE LOCATED ON WALLS SHALL BE RECESSED MOUNTED (EXCEPT IN EQUIPMENT ROOMS). BRANCH WIRING/HOMERUN CONDUITS TO SUCH EQUIPMENT SHALL BE CONCEALED IN CEILINGS, FLOOR SLABS AND WALLS. SURFACE MOUNTED CONDUITS NOT PERMITTED.
- ALL CONDUITS SHALL BE SIZED FOR MAXIMUM 40 PERCENT FILL. ALL CONDUCTORS SHALL BE INCLUDED IN FILL CALCULATIONS. MINIMUM CONDUIT SIZE SHALL BE 3/4". USE PLENUM CABLE WHERE REQUIRED BY CODE. USE WATERBLOCKED OR DIRECT BURIAL CABLE WHERE CONDUIT RUNS UNDERGROUND OUTSIDE OF THE BUILDING.
- SEPARATE CONDUITS SHALL BE PROVIDED FOR EACH SYSTEM TYPE AND FOR NEC CLASS SEPARATION. USE CL2 POWER SUPPLIES FOR LOCK MODELS WHERE RECOMMENDED BY LOCK MANUFACTURER. SOURCE PLC I/O POWER FROM MANUFACTURER RECOMMENDED NEC CLASS # SUPPLY. IF DPS AND LOCK CABLING IS RUN IN THE SAME CONDUIT, THEY MUST BE THE SAME NEC CLASS. USE INTERPOSING RELAYS AT HEAD END FOR STATUS/ALARM INPUTS IF PLC I/O POWER IS A DIFFERENT NEC CLASS THAN LOCK/STATUS POWER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH NEC CLASS SEPARATION AND MFR RECOMMENDATIONS AND TO COORDINATE ACCORDINGLY.
- COORDINATE INSTALLATION AND SUPPORT SYSTEMS WITH WORK OF OTHER TRADES. PROVIDE IDENTIFICATION OF RACEWAY SYSTEMS FOR ELECTRONIC SECURITY PER SPECIFICATIONS.

CONDUIT FILL SCHEDULE (EMT)

SIZE	40% AREA	INTERCOM (WP 357)	LONG RANGE OUTDOOR READER (WEST PENN AOC3186 & AOC225)	INDOOR READER (WEST PENN 3270)	PAGING SPEAKERS / ALARMS (WEST PENN 224)	2-WAY PAGING SPEAKERS (WEST PENN 293)	COMMERCIAL DOOR STRIKE + DPS (CL2) (WEST PENN #244)	ELECTRO MECHANICAL SLIDER (CL1) (5-#14 THHN + 2-#18 TFFN BUNDLE)	ELECTRO MECHANICAL HALF CYCLE (CL1 OR CL2) (5-#14 THHN + 2-#18 TFFN BUNDLE)	CAT 6 (WEST PENN 4246)	FIBER OPTIC CABLE (OM3) FOR MEDIA CONVERTERS INDOOR/OUTDOOR 4 STRAND (OCC # DX004DALT90R)
3/4"	0.213	8	1	9	11	10	8	2	2	5	5
1"	0.346	13	2	15	19	18	13	4	4	9	10
1 1/4"	0.598	23	4	28	31	30	22	7	7	15	18
1 1/2"	0.814	32	6	37	42	40	30	10	10	22	25
2"	1.342	53	-	61	70	66	51	16	16	35	40
2 1/2"	2.343	94	-	-	122	116	89	29	29	61	-
3"	3.538	140	-	-	185	175	134	44	44	93	-
3 1/2"	4.618	180	-	-	241	230	175	58	58	121	-
4"	5.901	230	-	-	308	293	224	74	74	155	-

(MFR PART NUMBERS USED FOR MINIMUM SPECS REFERENCE ONLY)

SECURITY DRAWING SHEET INDEX

- Sheet Number
- Sheet Name
- ES0.1 ELECTRONIC SECURITY SYMBOLS LEGEND
- ES1.2 SITE PLAN
- ES2.1 FIRST FLOOR PLAN
- ES2.1A FIRST FLOOR PLAN - AREA A
- ES2.1B FIRST FLOOR PLAN - AREA B
- ES2.1C FIRST FLOOR PLAN - AREA C
- ES2.1D FIRST FLOOR PLAN - AREA D AND AREA E
- ES3.1 ENLARGED PLANS
- ES3.2 ENLARGED PLANS
- ES3.3 ENLARGED PLANS
- ES4.1 SECURITY SYSTEM DIAGRAMS



AN ADDITION AND REMODEL FOR
Washington Co. Covid Mitigation
FAYETTEVILLE, AR

DRAWN BY: MG

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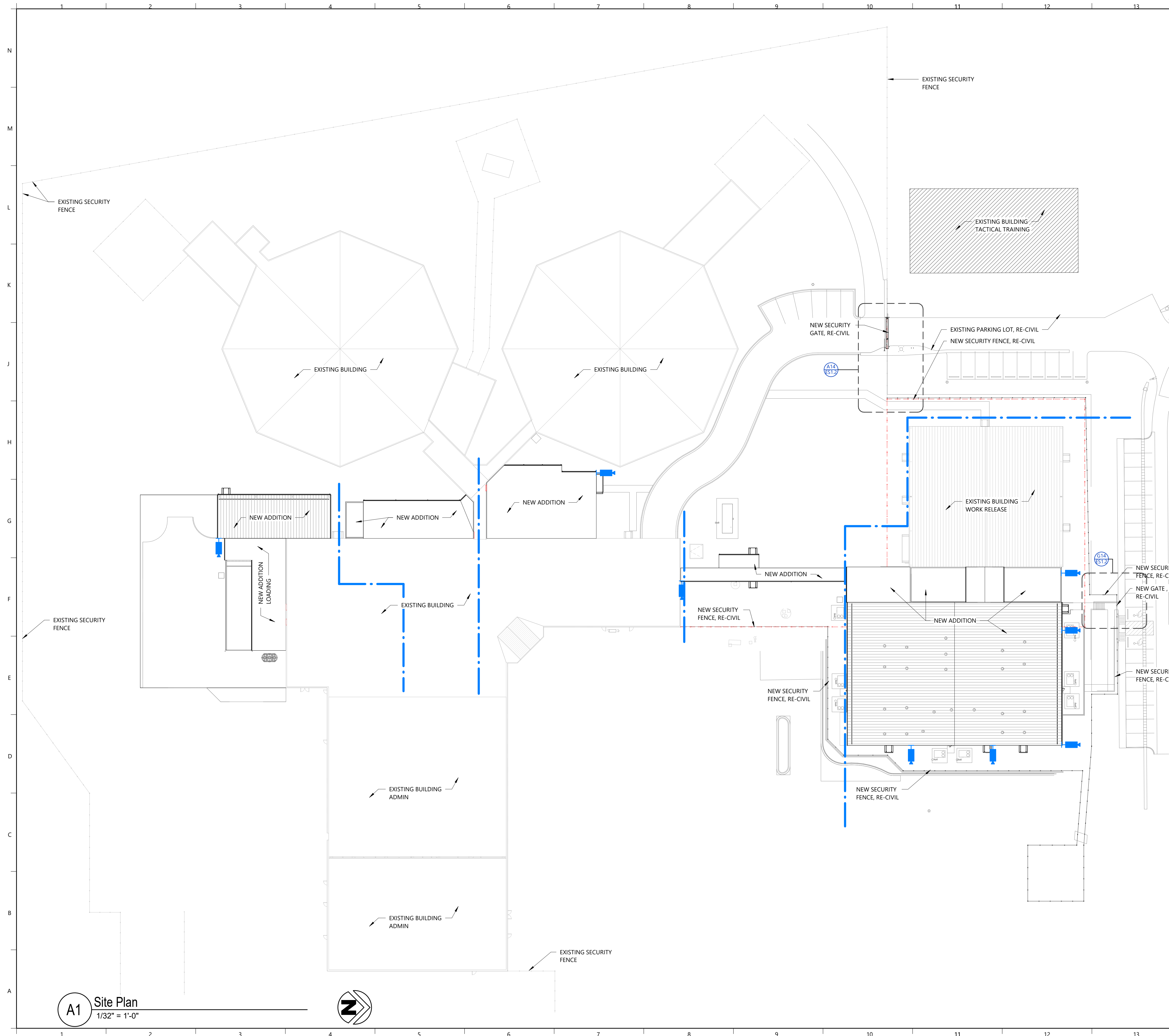
REVISION DATES: 09/20/2024

ELECTRONIC SECURITY SYMBOLS LEGEND SHEET

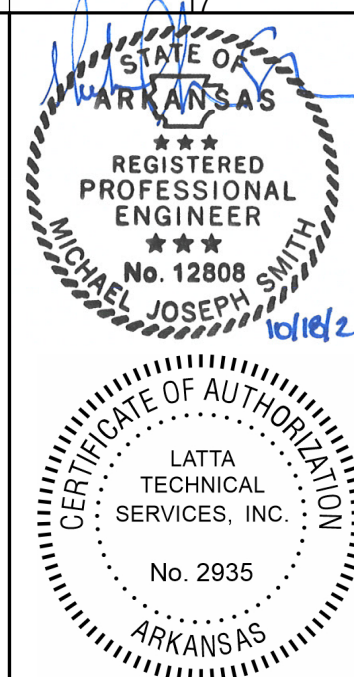
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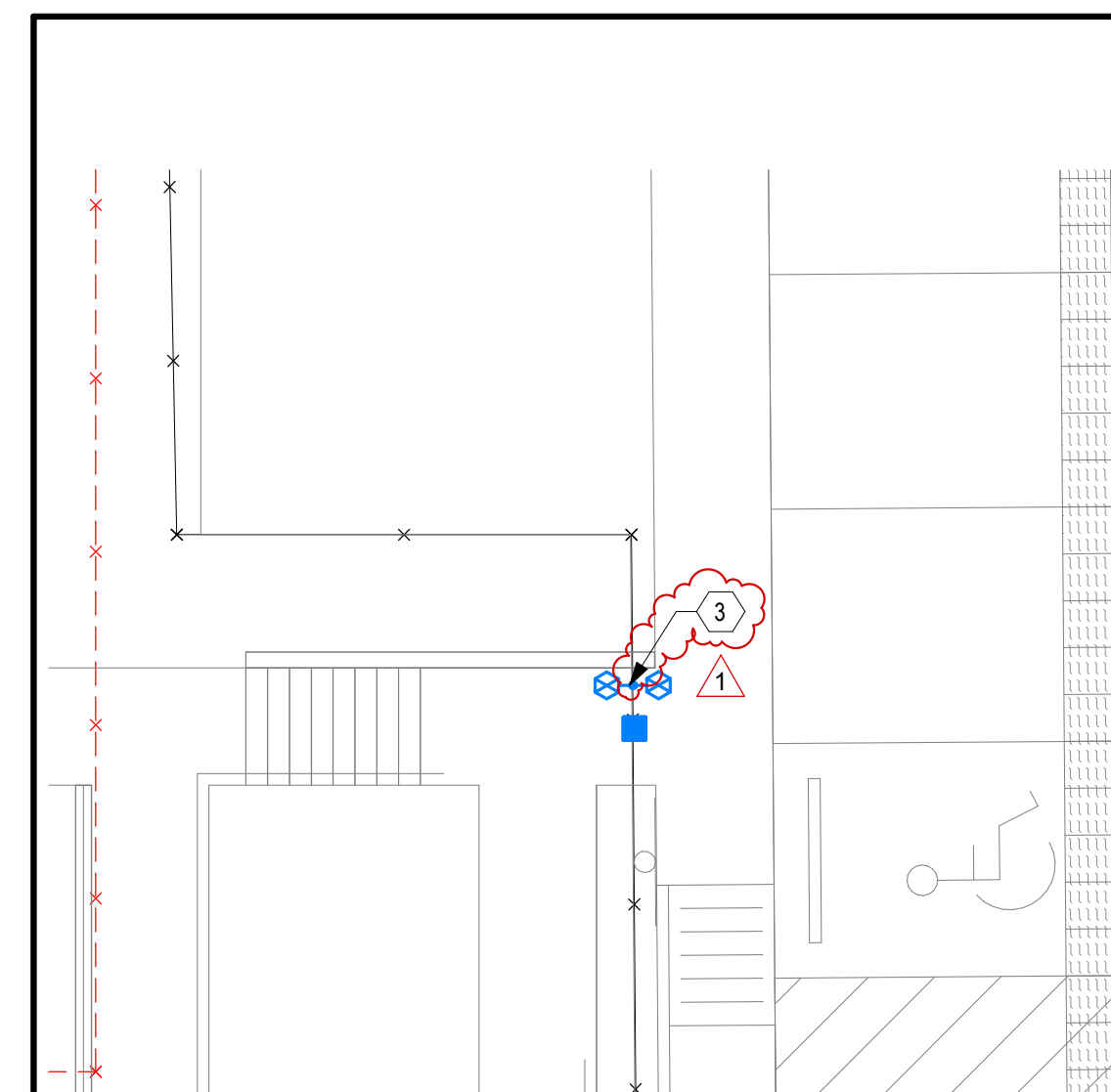


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Advanced Security Engineering
LATTA TECHNICAL SERVICES INC.
1255 West 15th Street, Suite 300
Plano, TX 75075
T: (972) 633-5850 *F: (469) 467-0300
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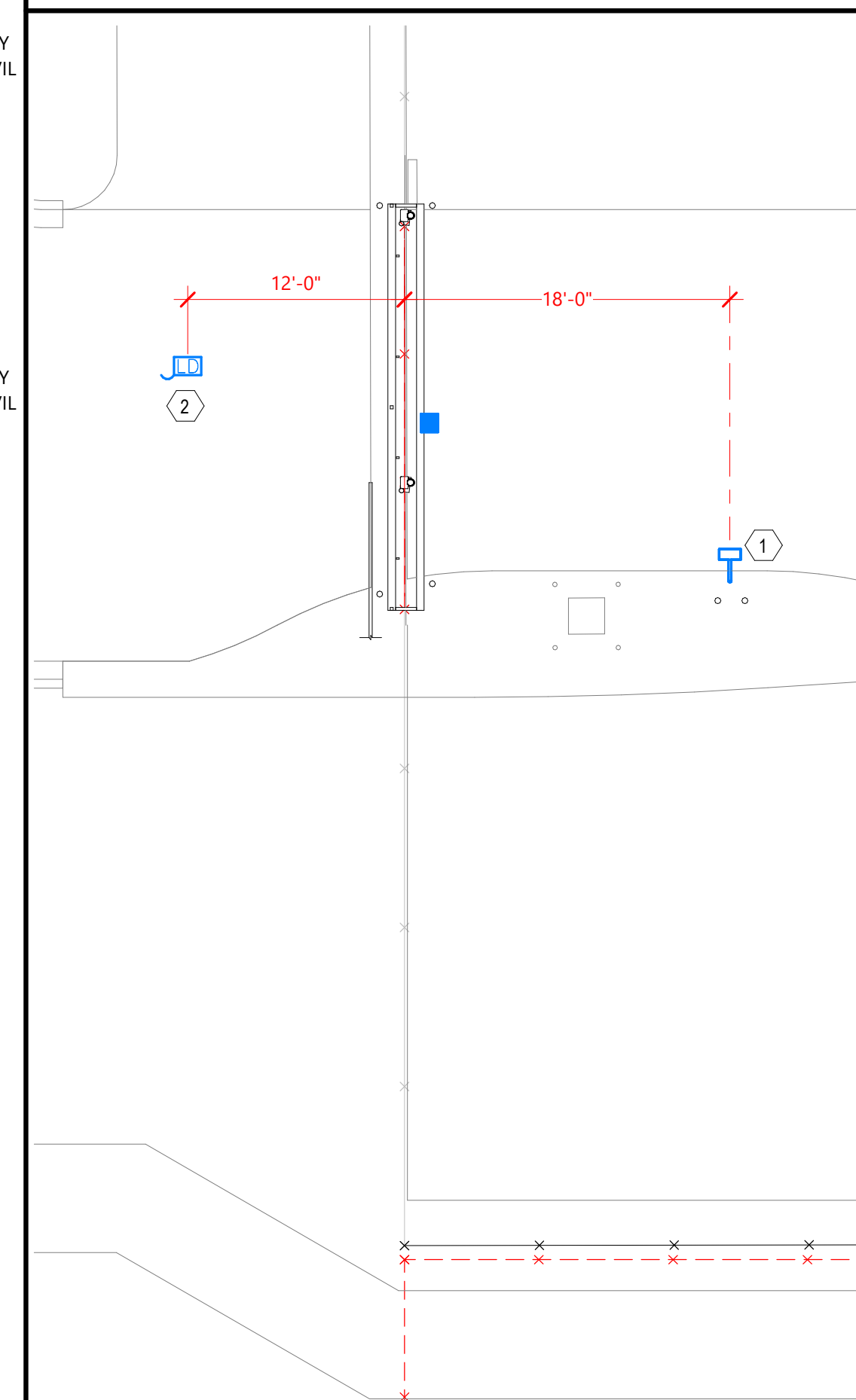


NOTES BY SYMBOL (○)

- 1 STUB UP 1" CONDUIT FOR THE OWNER PROVIDED CARD READER. THE CONDUIT WILL RUN TO THE EXISTING SECURITY ROOM #E139. PROVIDE PULL STRING AND COVER FOR THE CONDUIT. THE CONDUIT SHALL BE FASTENED TO THE FENCE POLE ADJACENT TO THE VEHICLE GATE. THE CONDUIT SHALL RUN TO 48" ABOVE GROUND.
- 2 PROVIDE POWER FOR THE REMOTELY OPERATED VEHICLE GATE. COORDINATE WITH DIV. 26 CONTRACTOR.
- 3 STUB UP 1" CONDUIT FOR THE OWNER PROVIDED INTERCOM. THE CONDUIT WILL RUN TO THE EXISTING SECURITY ROOM #E139. PROVIDE PULL STRING AND COVER FOR THE CONDUIT. THE CONDUIT SHALL BE FASTENED TO THE FENCE POLE. THE CONDUIT SHALL RUN TO 48" ABOVE GROUND.



G14 Enlarged Pedestrian Gate Plan
1/8" = 1'-0"



A14 Enlarged Vehicular Gate Plan
1/8" = 1'-0"

Hight Jackson
ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72768 | (479) 464-4965 | www.hjarch.com

AN ADDITION AND REMODEL FOR
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FAYETTEVILLE, AR

DRAWN BY:

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ISSUE DATE

08/30/2024

PROJECT NO.

2333

REVISION DATES

09/20/2024

1 10/18/2024 ADD. NO. 1

SITE PLAN

S H E E T

ES1.2

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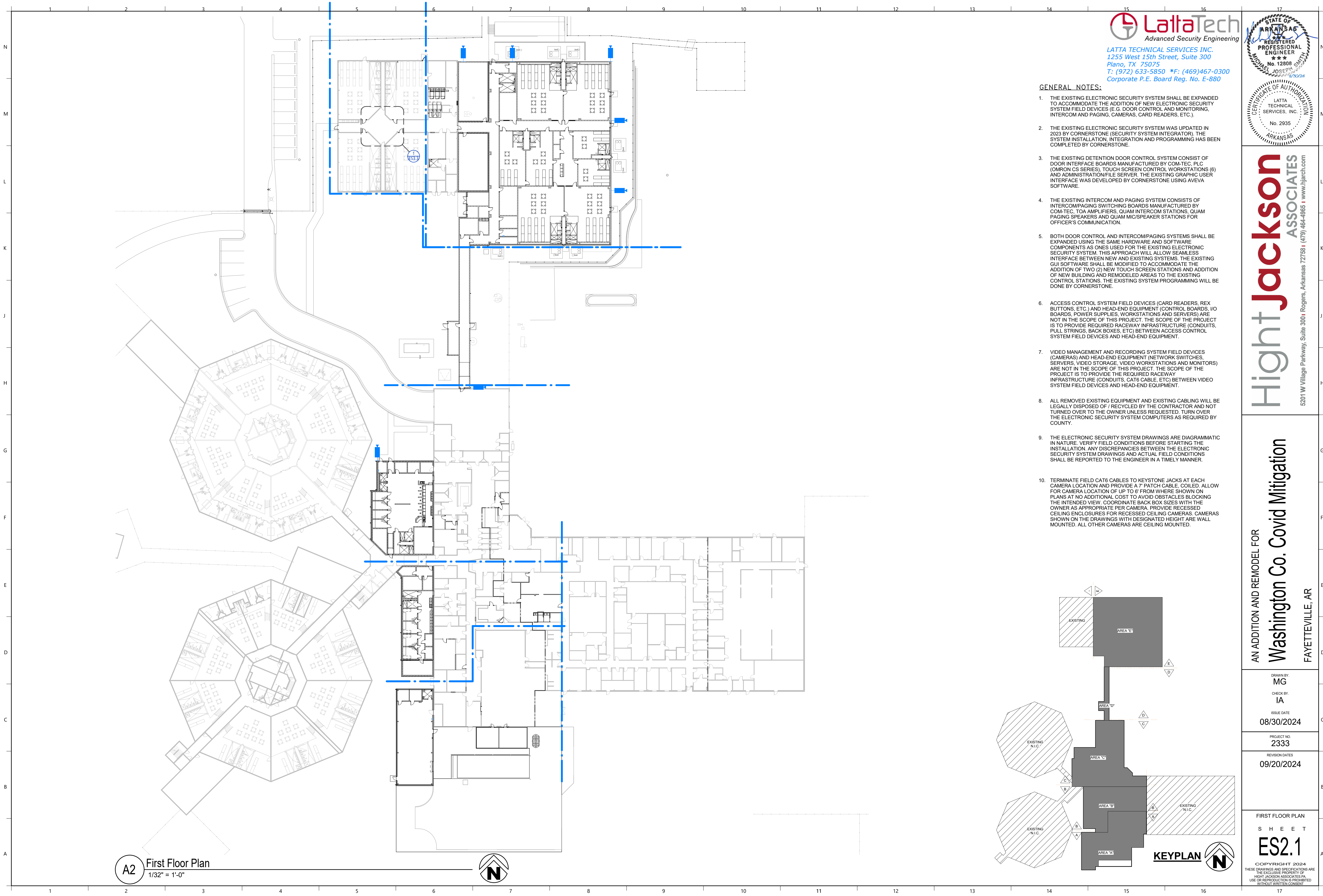
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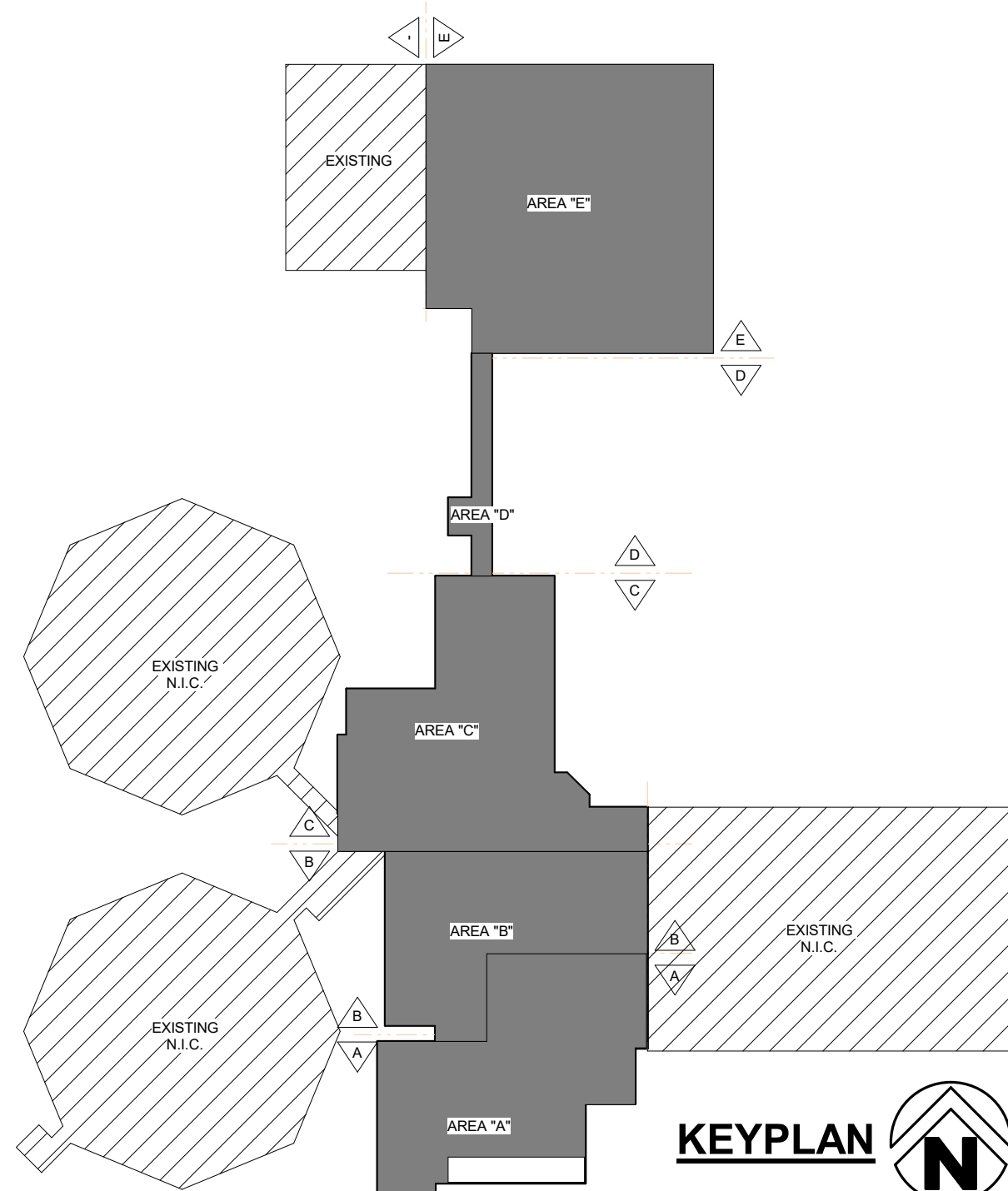


A2 First Floor Plan
1/32" = 1'-0"

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Advanced Security Engineering
LATTA TECHNICAL SERVICES INC.
1255 West 15th Street, Suite 300
Plano, TX 75075
T: (972) 633-5850 *F: (469) 467-0300
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- GENERAL NOTES:**
1. THE EXISTING ELECTRONIC SECURITY SYSTEM SHALL BE EXPANDED TO ACCOMMODATE THE ADDITION OF NEW ELECTRONIC SECURITY SYSTEM FIELD DEVICES (E.G. DOOR CONTROL AND MONITORING, INTERCOM AND PAGING, CAMERAS, CARD READERS, ETC.).
 2. THE EXISTING ELECTRONIC SECURITY SYSTEM WAS UPDATED IN 2023 BY CORNERSTONE (SECURITY SYSTEM INTEGRATOR). THE SYSTEM INSTALLATION, INTEGRATION AND PROGRAMMING HAS BEEN COMPLETED BY CORNERSTONE.
 3. THE EXISTING DETENTION DOOR CONTROL SYSTEM CONSIST OF DOOR INTERFACE BOARDS MANUFACTURED BY COM-TEC, PLC (OMRON CS SERIES), TOUCH SCREEN CONTROL WORKSTATIONS (6) AND ADMINISTRATION/FILE SERVER. THE EXISTING GRAPHIC USER INTERFACE WAS DEVELOPED BY CORNERSTONE USING AVEVA SOFTWARE.
 4. THE EXISTING INTERCOM AND PAGING SYSTEM CONSISTS OF INTERCOMPAGING SWITCHING BOARDS MANUFACTURED BY COM-TEC, TOA AMPLIFIERS, QUAM INTERCOM STATIONS, QUAM PAGING SPEAKERS AND QUAM MIC/SPEAKER STATIONS FOR OFFICER'S COMMUNICATION.
 5. BOTH DOOR CONTROL AND INTERCOMPAGING SYSTEMS SHALL BE EXPANDED USING THE SAME HARDWARE AND SOFTWARE COMPONENTS AS ONES USED FOR THE EXISTING ELECTRONIC SECURITY SYSTEM. THIS APPROACH WILL ALLOW SEAMLESS INTERFACE BETWEEN NEW AND EXISTING SYSTEMS. THE EXISTING GUI SOFTWARE SHALL BE MODIFIED TO ACCOMMODATE THE ADDITION OF TWO (2) NEW TOUCH SCREEN STATIONS AND ADDITION OF NEW BUILDING AND REMODELED AREAS TO THE EXISTING CONTROL STATIONS. THE EXISTING SYSTEM PROGRAMMING WILL BE DONE BY CORNERSTONE.
 6. ACCESS CONTROL SYSTEM FIELD DEVICES (CARD READERS, REX BUTTONS, ETC.) AND HEAD-END EQUIPMENT (CONTROL BOARDS, I/O BOARDS, POWER SUPPLIES, WORKSTATIONS AND SERVERS) ARE NOT IN THE SCOPE OF THIS PROJECT. THE SCOPE OF THE PROJECT IS TO PROVIDE REQUIRED RACEWAY INFRASTRUCTURE (CONDUITS, PULL STRINGS, BACK BOXES, ETC) BETWEEN ACCESS CONTROL SYSTEM FIELD DEVICES AND HEAD-END EQUIPMENT.
 7. VIDEO MANAGEMENT AND RECORDING SYSTEM FIELD DEVICES (CAMERAS) AND HEAD-END EQUIPMENT (NETWORK SWITCHES, SERVERS, VIDEO STORAGE, VIDEO WORKSTATIONS AND MONITORS) ARE NOT IN THE SCOPE OF THIS PROJECT. THE SCOPE OF THE PROJECT IS TO PROVIDE THE REQUIRED RACEWAY INFRASTRUCTURE (CONDUITS, CAT6 CABLE, ETC) BETWEEN VIDEO SYSTEM FIELD DEVICES AND HEAD-END EQUIPMENT.
 8. ALL REMOVED EXISTING EQUIPMENT AND EXISTING CABLING WILL BE LEGALLY DISPOSED OF / RECYCLED BY THE CONTRACTOR AND NOT TURNED OVER TO THE OWNER UNLESS REQUESTED. TURN OVER THE ELECTRONIC SECURITY SYSTEM COMPUTERS AS REQUIRED BY COUNTY.
 9. THE ELECTRONIC SECURITY SYSTEM DRAWINGS ARE DIAGRAMMATIC IN NATURE. VERIFY FIELD CONDITIONS BEFORE STARTING THE INSTALLATION. ANY DISCREPANCIES BETWEEN THE ELECTRONIC SECURITY SYSTEM DRAWINGS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE ENGINEER IN A TIMELY MANNER.
 10. TERMINATE FIELD CAT6 CABLES TO KEYSTONE JACKS AT EACH CAMERA LOCATION AND PROVIDE A 7" PATCH CABLE. COILED. ALLOW FOR CAMERA LOCATION OF UP TO 6' FROM WHERE SHOWN ON PLANS AT NO ADDITIONAL COST TO AVOID OBSTACLES BLOCKING THE INTENDED VIEW. COORDINATE BACK BOX SIZES WITH THE OWNER AS APPROPRIATE PER CAMERA. PROVIDE RECESSED CEILING ENCLOSURES FOR RECESSED CEILING CAMERAS. CAMERAS SHOWN ON THE DRAWINGS WITH DESIGNATED HEIGHT ARE WALL MOUNTED. ALL OTHER CAMERAS ARE CEILING MOUNTED.



AN ADDITION AND REMODEL FOR
Washington Co. Covid Mitigation
FAYETTEVILLE, AR

DRAWN BY: MG
CHECK BY: IA
ISSUE DATE 08/30/2024
PROJECT NO. 2333
REVISION DATES 09/20/2024
FIRST FLOOR PLAN SHEET ES2.1
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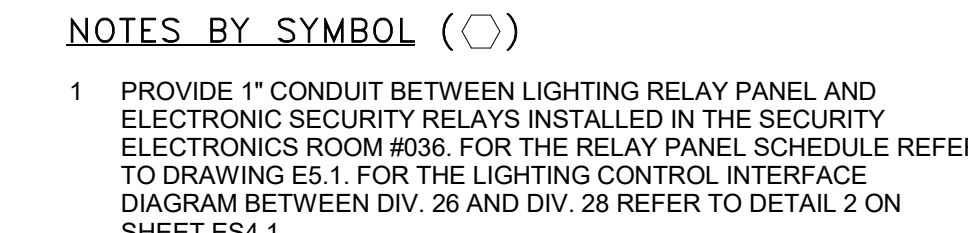
PROJECT NO.

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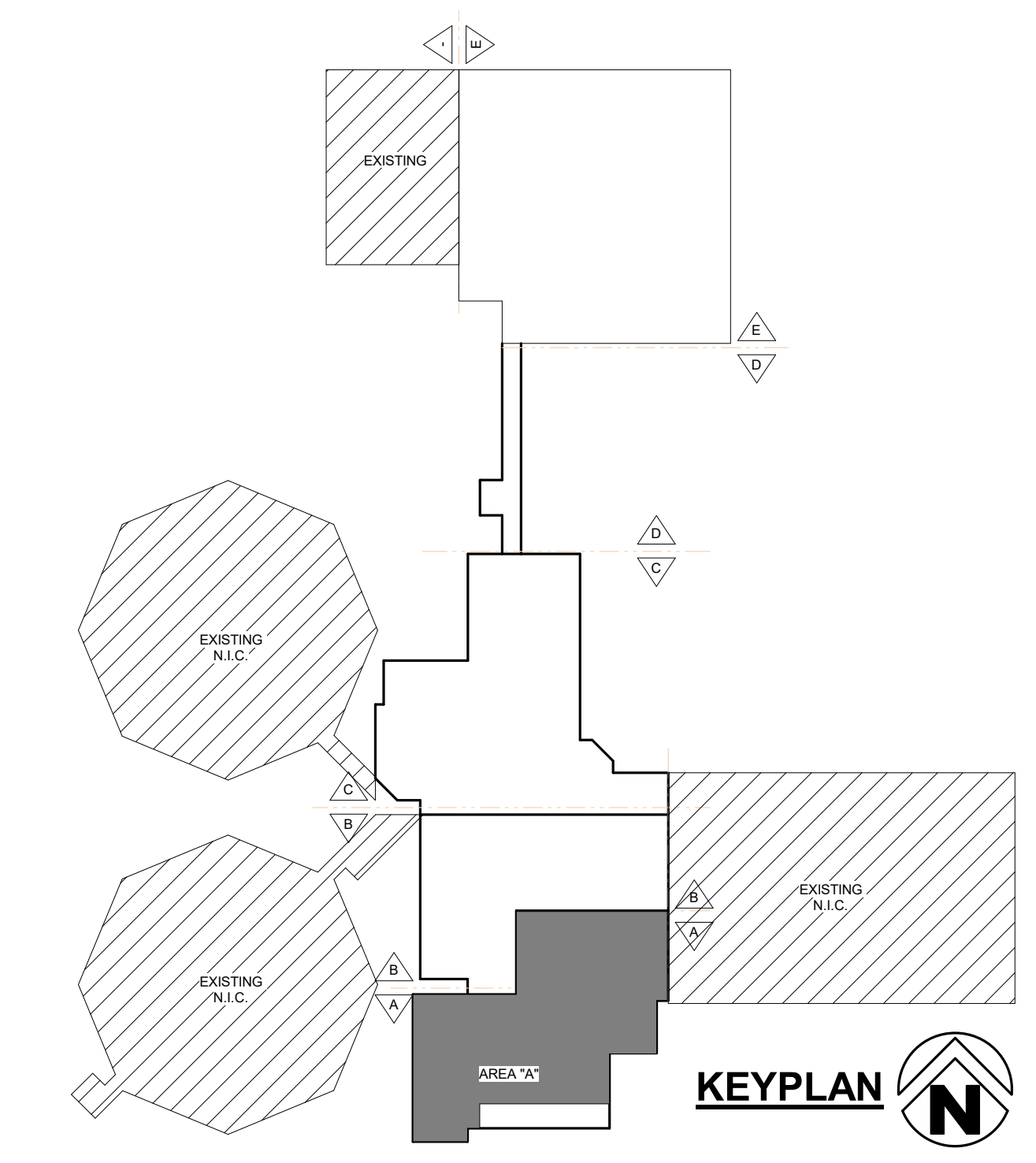
FIRST FLOOR PLAN - AREA A

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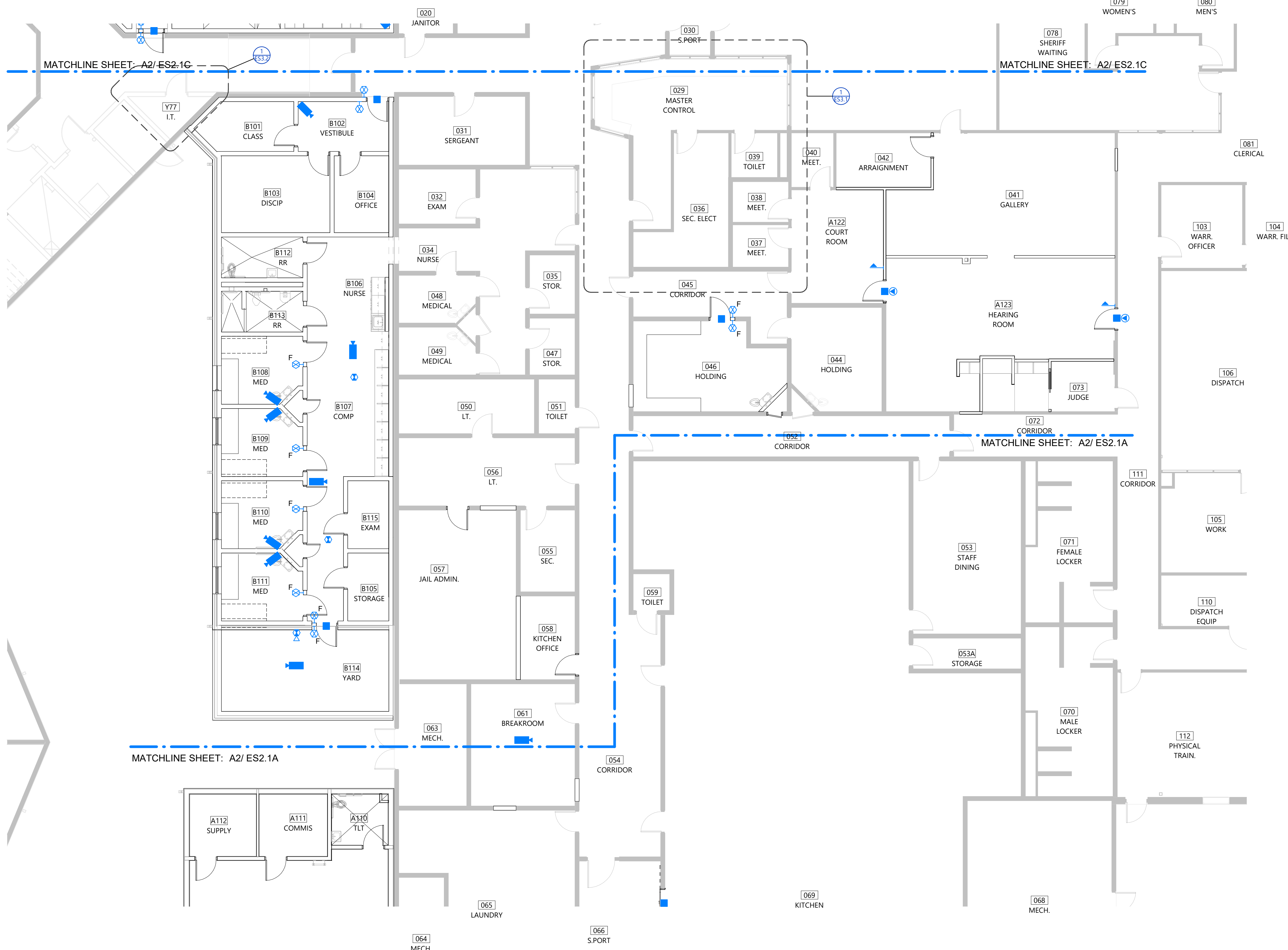
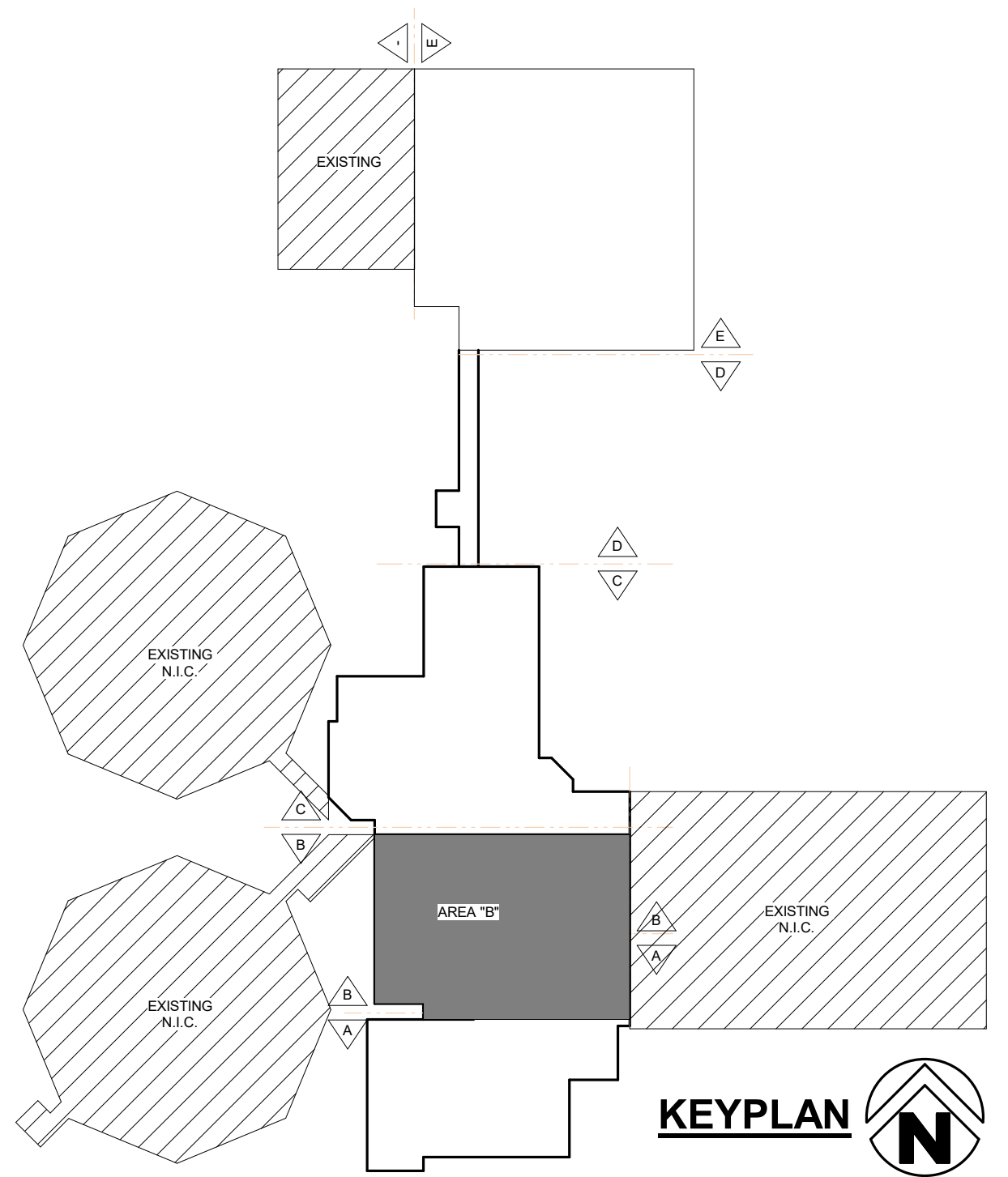


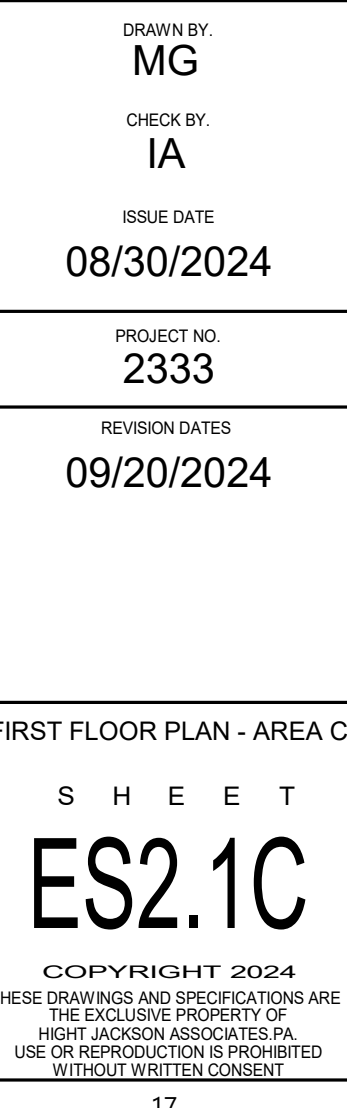
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1. THE EXISTING ELECTRONIC SECURITY SYSTEM SHALL BE EXPANDED TO ACCOMMODATE THE ADDITION OF NEW ELECTRONIC SECURITY SYSTEM FIELD DEVICES (E.G. DOOR CONTROL AND MONITORING, INTERCOM AND PAGING, CAMERAS, CARD READERS, ETC.).
 2. THE EXISTING ELECTRONIC SECURITY SYSTEM WAS UPDATED IN 2023 BY CORNERSTONE (SECURITY SYSTEM INTEGRATOR). THE SYSTEM INSTALLATION, INTEGRATION AND PROGRAMMING HAS BEEN COMPLETED BY CORNERSTONE.
 3. THE EXISTING DETENTION DOOR CONTROL SYSTEM CONSIST OF DOOR INTERFACE BOARDS MANUFACTURED BY COM-TEC, PLC (OMRON CS SERIES), TOUCH SCREEN CONTROL WORKSTATIONS (6) AND ADMINISTRATION/FILE SERVER. THE EXISTING GRAPHIC USER INTERFACE WAS DEVELOPED BY CORNERSTONE USING AVEVA SOFTWARE.
 4. THE EXISTING INTERCOM AND PAGING SYSTEM CONSISTS OF INTERCOM/PAGING SWITCHING BOARDS MANUFACTURED BY COM-TEC, TOA AMPLIFIERS, QUAM INTERCOM STATIONS, QUAM PAGING SPEAKERS AND QUAM MIC/SPEAKER STATIONS FOR OFFICER'S COMMUNICATION.
 5. BOTH DOOR CONTROL AND INTERCOM/PAGING SYSTEMS SHALL BE EXPANDED USING THE SAME HARDWARE AND SOFTWARE COMPONENTS AS ONES USED FOR THE EXISTING ELECTRONIC SECURITY SYSTEM. THIS APPROACH WILL ALLOW SEAMLESS INTERFACE BETWEEN NEW AND EXISTING SYSTEMS. THE EXISTING GUI SOFTWARE SHALL BE MODIFIED TO ACCOMMODATE THE ADDITION OF TWO (2) NEW INTERCOM/ PAGING STATIONS AND ADDITION OF NEW BUILDINGS AND REMODELED AREAS TO THE EXISTING CONTROL STATIONS. THE EXISTING SYSTEM PROGRAMMING WILL BE DONE BY CORNERSTONE.
 6. ACCESS CONTROL SYSTEM FIELD DEVICES (CARD READERS, REX BUTTONS, ETC.) AND HEAD-END EQUIPMENT (CONTROL BOARDS, I/O BOARDS, POWER SUPPLIES, WORKSTATIONS AND SERVERS) ARE NOT IN THE SCOPE OF THIS PROJECT. THE SCOPE OF THE PROJECT IS TO PROVIDE REQUIRED RACEWAY INFRASTRUCTURE (CONDUITS, PULL STRINGS, BACK BOXES, ETC) BETWEEN ACCESS CONTROL SYSTEM FIELD DEVICES AND HEAD-END EQUIPMENT.
 7. VIDEO MANAGEMENT AND RECORDING SYSTEM FIELD DEVICES (CAMERAS) AND HEAD-END EQUIPMENT (NETWORK SWITCHES, SERVERS, VIDEO STORAGE, VIDEO WORKSTATIONS AND MONITORS) ARE NOT IN THE SCOPE OF THIS PROJECT. THE SCOPE OF THE PROJECT IS TO PROVIDE THE REQUIRED RACEWAY INFRASTRUCTURE (CONDUITS, CAT6 CABLE, ETC) BETWEEN VIDEO SYSTEM FIELD DEVICES AND HEAD-END EQUIPMENT.
 8. ALL REMOVED EXISTING EQUIPMENT AND EXISTING CABLING WILL BE LEGALLY DISPOSED OF / RECYCLED BY THE CONTRACTOR AND NOT TURNED OVER TO THE OWNER UNLESS REQUESTED. TURN OVER THE ELECTRONIC SECURITY SYSTEM COMPUTERS AS REQUIRED BY COUNTRY.
 9. THE ELECTRONIC SECURITY SYSTEM DRAWINGS ARE DIAGRAMMATIC IN NATURE. VERIFY FIELD CONDITIONS BEFORE STARTING THE INSTALLATION. ANY DISCREPANCIES BETWEEN THE ELECTRONIC SECURITY SYSTEM DRAWINGS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE ENGINEER IN A TIMELY MANNER.
 10. TERMINATE FIELD CAT6 CABLES TO KEYSTONE JACKS AT EACH CAMERA LOCATION AND PROVIDE A 7 PATCH CABLE. COILED, ALLOW FOR CAMERA LOCATION OF UP TO 6' FROM WHERE SHOWN ON DRAWING. NO ADDITIONAL CABLE SHALL BE ALLOWED FOR COILING THE INTENDED VIEW. COORDINATE BACK BOX SIZES WITH THE OWNER AS APPROPRIATE PER CAMERA. PROVIDE RECESSED CEILING ENCLOSURES FOR RECESSED CEILING CAMERAS. CAMERAS SHOWN ON THE DRAWINGS WITH DESIGNATED HEIGHT ARE WALL MOUNTED. ALL OTHER CAMERAS ARE CEILING MOUNTED.
 11. CONDUITS AND CABLES FOR NEW ELECTRONIC SECURITY FIELD DEVICES SHOWN ON THIS DRAWING SHALL BE ROUTED TO ELECTRONIC SECURITY ROOM #036.
 12. CONDUITS AND CAT6 CABLES FOR NEW CAMERAS SHOWN ON THIS DRAWING SHALL BE ROUTED TO I.T. ROOM #777.

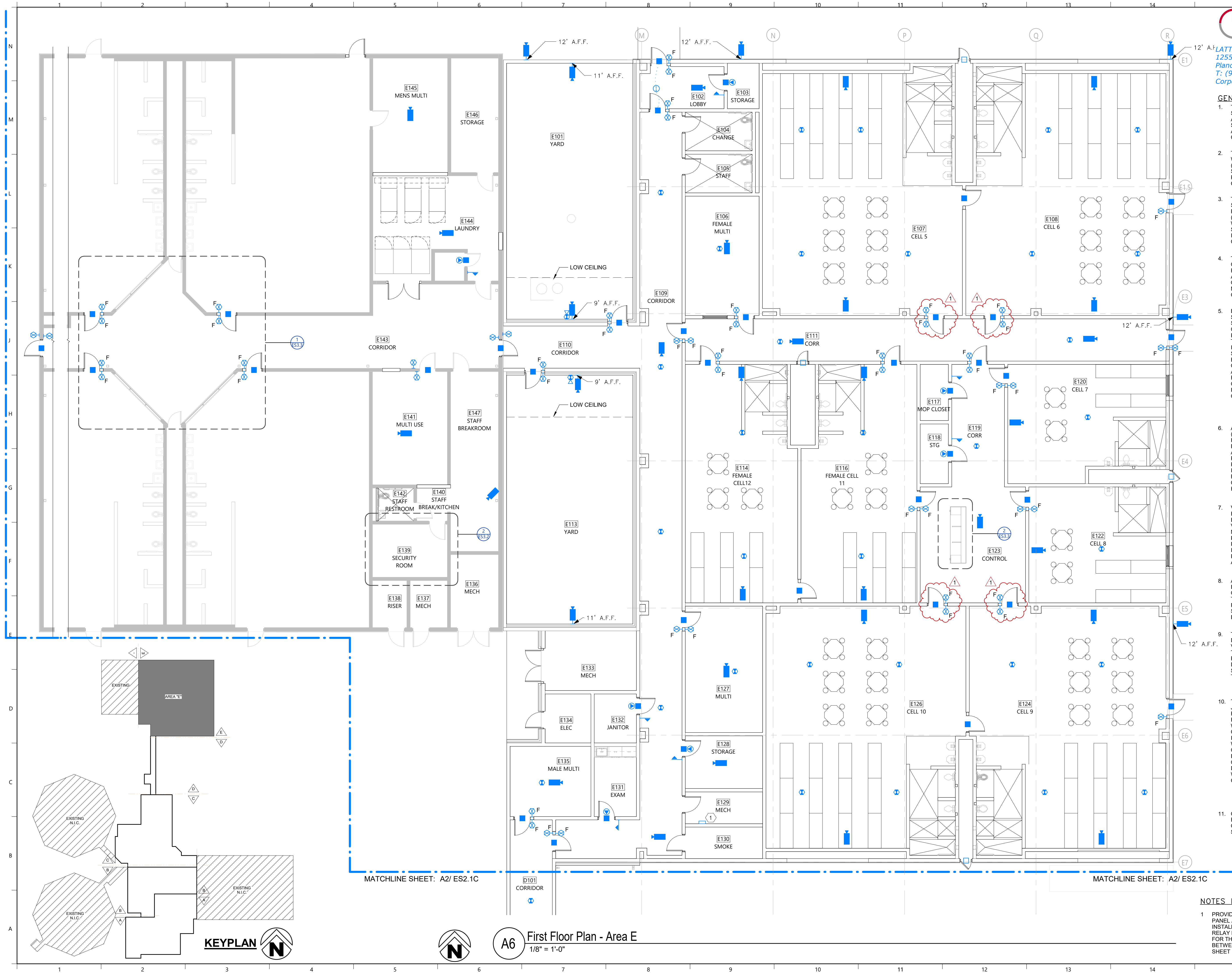


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12. CONDUITS AND CAT6 CABLES FOR NEW CAMERAS SHOWN ON THIS DRAWING SHALL BE ROUTED TO I.T. ROOM #Y77.









LattaTech
Advanced Security Engineering

LATTA TECHNICAL SERVICES INC.
1255 West 15th Street, Suite 300
Plano, TX 75075
T: (972) 633-5850 *F: (469) 467-0300
Corporate P.E. Board Reg. No. E-880

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 12808
MICHAEL JOSEPH

CERTIFICATE OF AUTHORIZATION
LATTA TECHNICAL SERVICES, INC.
No. 2935
ARKANSAS

- GENERAL NOTES:**
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 - CONDUITS AND CABLES FOR NEW ELECTRONIC SECURITY FIELD DEVICES SHOWN ON THIS DRAWING SHALL BE ROUTED TO SECURITY ROOM #E139.

NOTES BY SYMBOL (○)


- PROVIDE 1" CONDUIT BETWEEN LIGHTING RELAY PANEL AND ELECTRONIC SECURITY RELAYS INSTALLED IN THE SECURITY ROOM #E139. FOR THE RELAY PANEL SCHEDULE REFER TO DRAWING E5.1. FOR THE LIGHTING CONTROL INTERFACE DIAGRAM BETWEEN DIV. 26 AND DIV. 28 REFER TO DETAIL 2 ON SHEET ES4.1.

FIRST FLOOR PLAN - AREA D AND AREA E
SHEET
ES2.1D
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ASSOCIATES

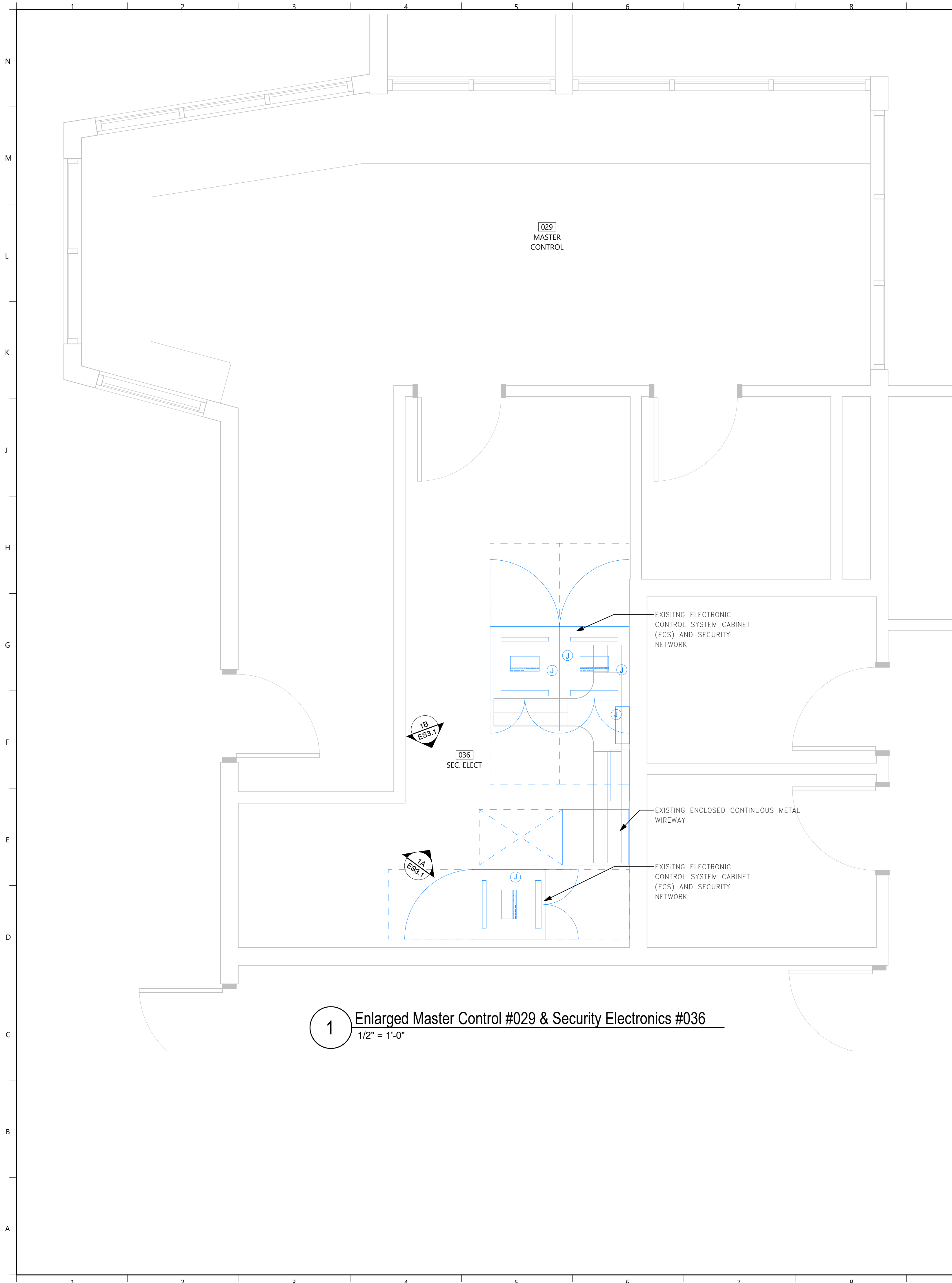
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AN ADDITION AND REMODEL FOR
Washington Co. Covid Mitigation
FAYETTEVILLE, AR

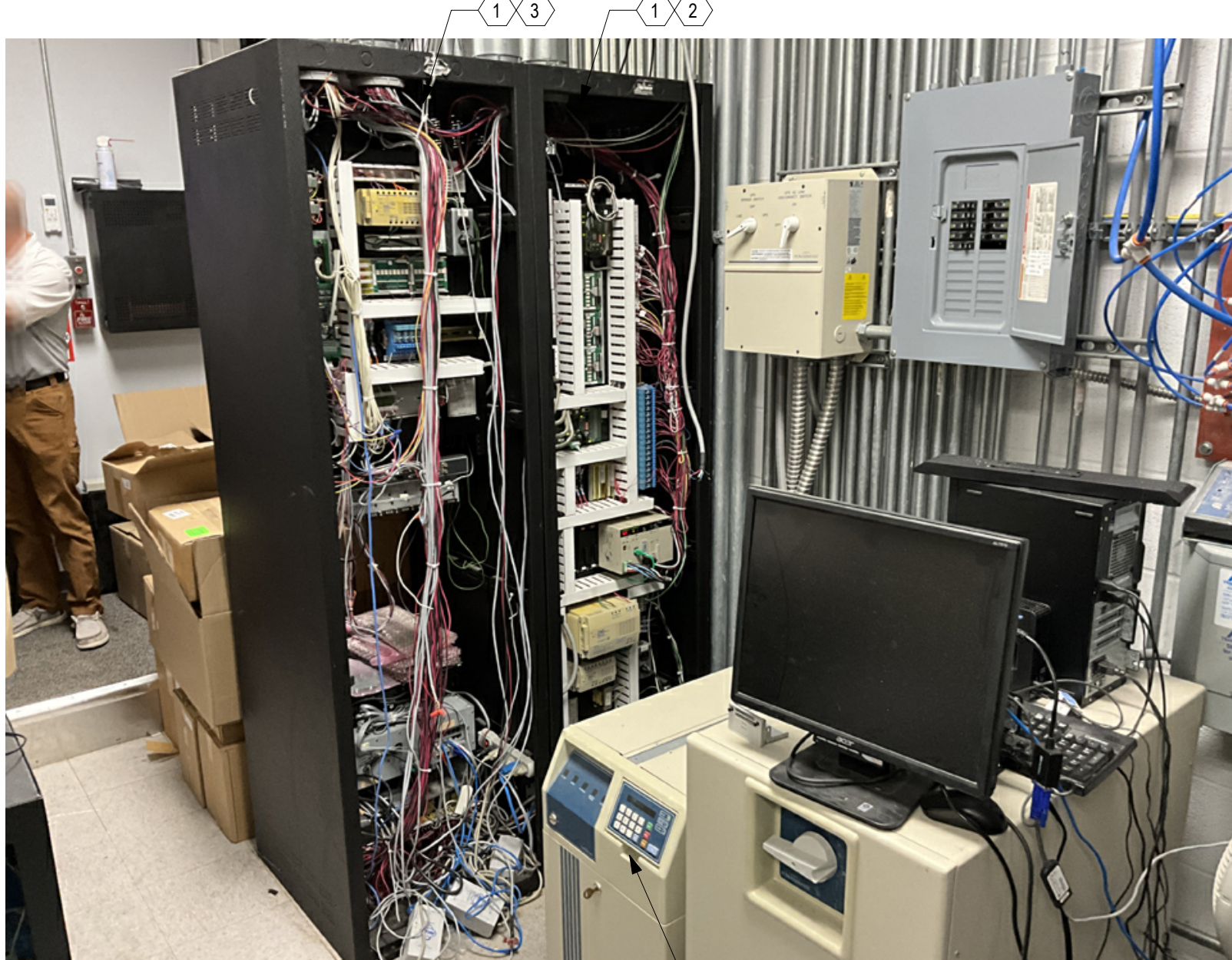


A6

First Floor Plan - Area E
1/8" = 1'-0"



1 Enlarged Master Control #029 & Security Electronics #036
1/2" = 1'-0"

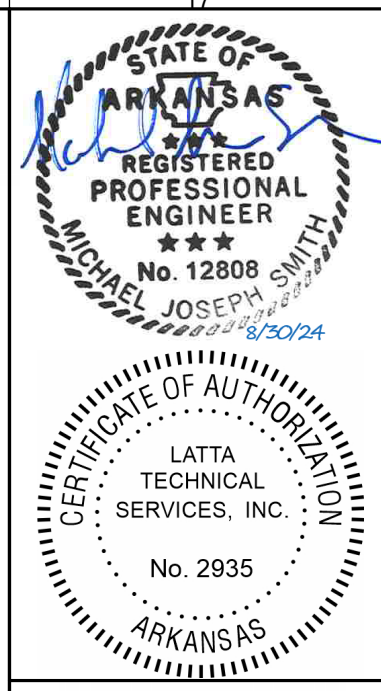


1A EQUIPMENT PHOTO
NOT TO SCALE



1B EQUIPMENT PHOTO
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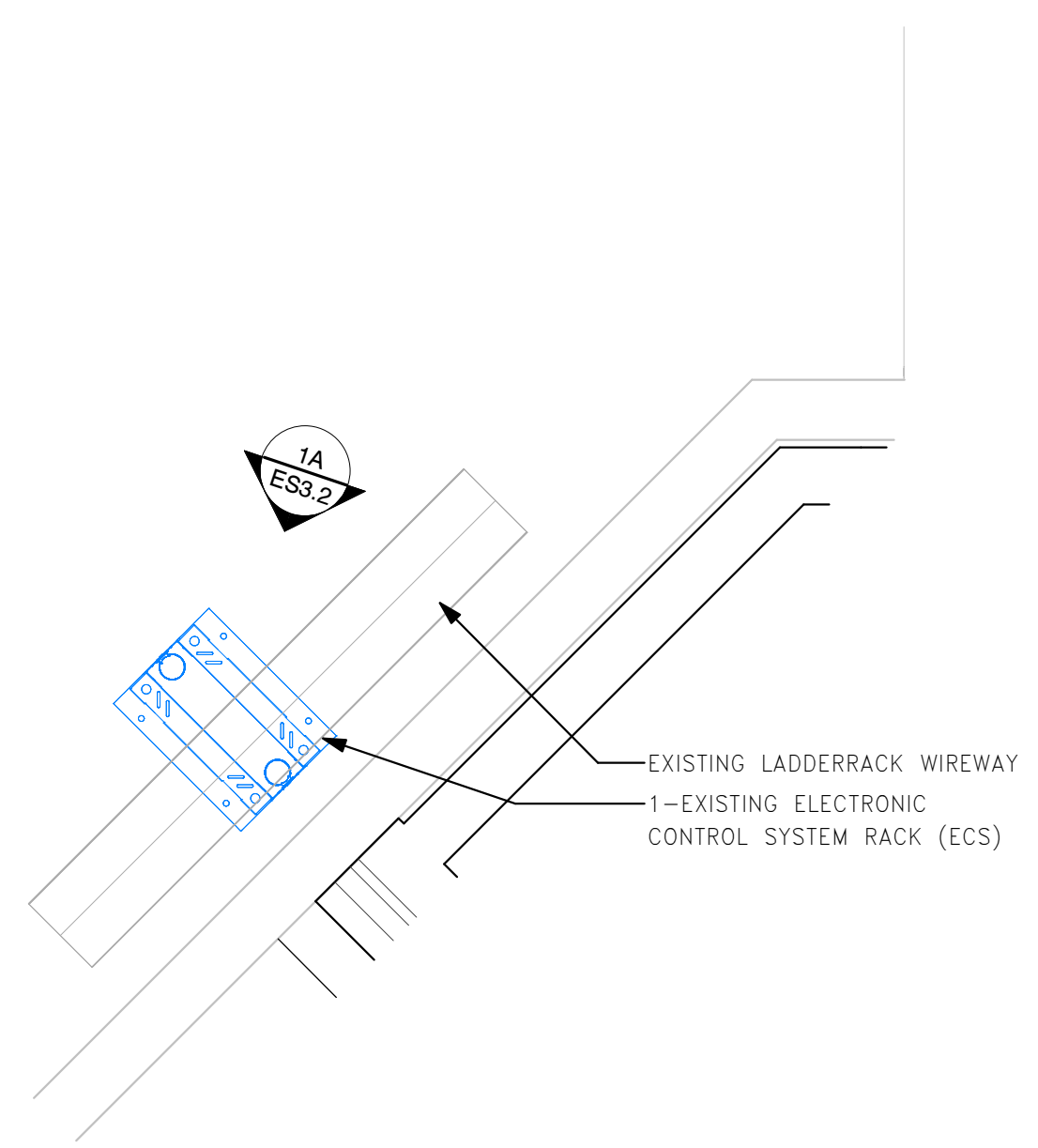
- NOTES BY SYMBOL (○)
- 1 THE EXISTING DOOR CONTROL SYSTEM SHALL BE EXPANDED TO ADD CONTROL AND MONITORING FUNCTIONS FOR THE ADDED SECURITY FIELD DEVICES. REFER TO ES SERIES FLOOR PLANS FOR THE LAYOUT OF THE SECURITY FIELD DEVICES. PROVIDE ALL THE REQUIRED HARDWARE AND SOFTWARE ADDITIONS AND UPDATES TO INTEGRATE NEW ELECTRONIC SECURITY SYSTEM FIELD DEVICES INTO THE EXISTING ELECTRONIC SECURITY SYSTEM.
 - 2 PROVIDE NEW COM-TEC BOARDS (9124, 9800 SERIES, ETC.) TO INTERFACE NEW SECURITY FIELD DEVICES WITH THE EXISTING OMRON SC1 PROGRAMMABLE LOGICAL CONTROLLER (PLC). PROVIDE NEW OMRON I/O BOARDS TO ACCOMMODATE THE ADDITION OF THE NEW SECURITY DEVICES. PROVIDE NEW POWER SUPPLIES TO POWER NEW SECURITY FIELD DEVICES AND SECURITY EQUIPMENT.
 - 3 PROVIDE NEW COM-TEC BOARDS (9131, 9800 SERIES, ETC.) TO INTERFACE NEW INTERCOM AND PAGING SYSTEM FIELD DEVICES WITH THE EXISTING OMRON SC1 PROGRAMMABLE LOGICAL CONTROLLER (PLC). PROVIDE NEW OMRON I/O BOARDS TO ACCOMMODATE THE ADDITION OF THE NEW INTERCOM AND PAGING SYSTEM FIELD DEVICES.
 - 4 REUSE SPACE IN THE EXISTING EQUIPMENT CABINETS TO INSTALL NEW EQUIPMENT. OLD UNUSED VIDEO SURVEILLANCE EQUIPMENT SHALL BE REMOVED BY THE COUNTY TO PROVIDE ADDITIONAL SPACE FOR NEW EQUIPMENT AND WIRING.
 - 5 REUSE EXISTING UPS POWER TO POWER NEW SECURITY HEAD-END EQUIPMENT.
 - 6 EXISTING NETWORK SWITCHES WILL BE USED TO CONNECT NEW CAMERAS TO THE EXISTING VIDEO MANAGEMENT AND RECORDING SYSTEM (THE COUNTY'S IT WILL PERFORM INSTALLATION AND PROGRAMMING WORK).
 - 7 THE EXISTING FIBER OPTIC BACKBONE SHALL BE USED TO CONNECT ALL SECURITY EQUIPMENT ROOMS AND TO ALLOW COMMUNICATION BETWEEN ELECTRONIC SECURITY HEAD-END EQUIPMENT (EXISTING AND NEW).

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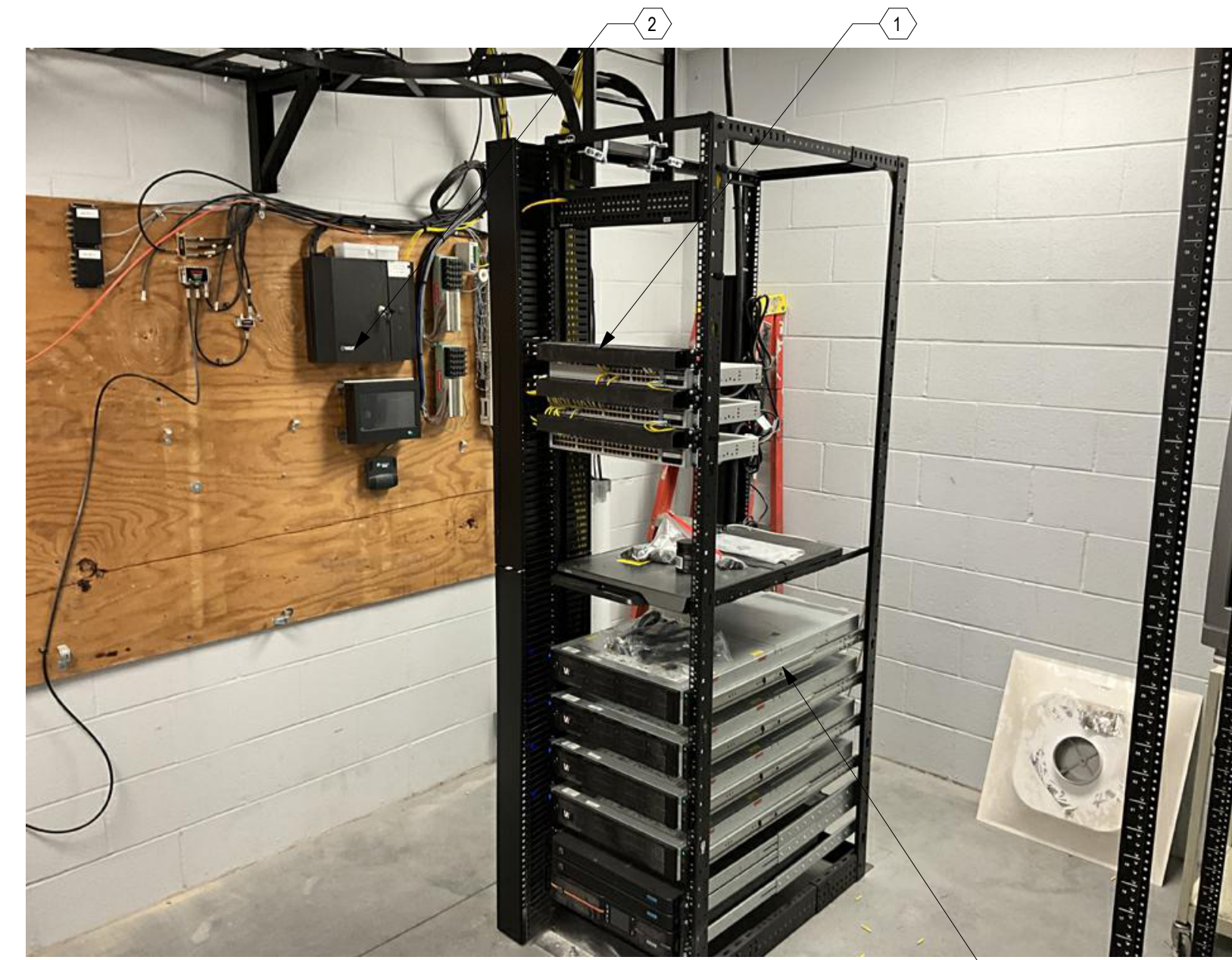
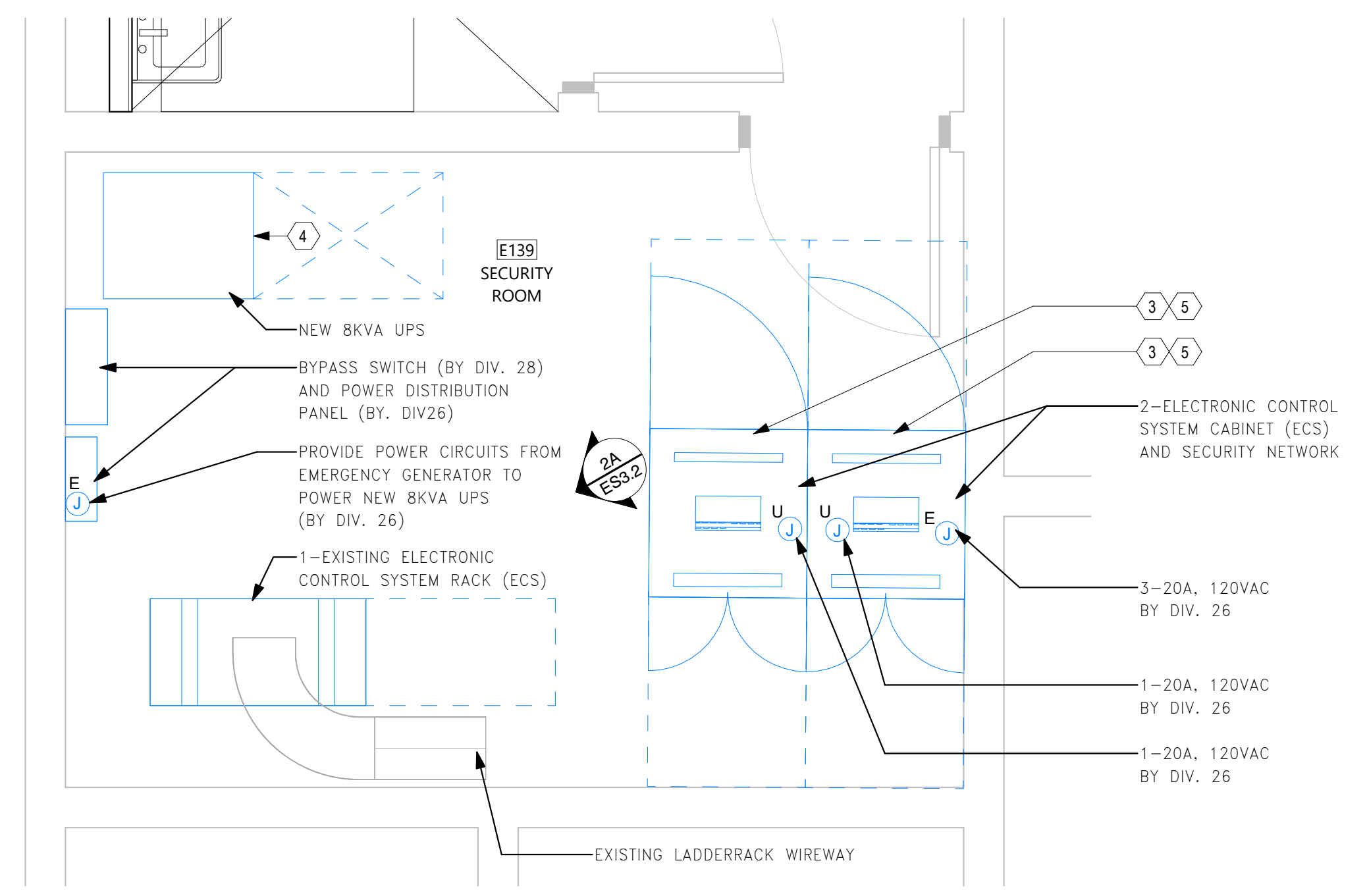
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IA
ISSUE DATE
08/30/2024
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REVISION DATES
09/20/2024
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 - 2 THE EXISTING FIBER OPTIC BACKBONE SHALL BE USED TO CONNECT ALL SECURITY EQUIPMENT ROOMS AND TO ALLOW COMMUNICATION BETWEEN ELECTRONIC SECURITY HEAD-END EQUIPMENT (EXISTING AND NEW).
 - 3 PROVIDE NEW EQUIPMENT CABINET FOR NEW ELECTRONIC SECURITY HEAD-END EQUIPMENT INCLUDING BUT NOT LIMITED TO COM-TEC INTERFACE RELAY BOARDS, COM-TEC CONTROLLER BOARDS, OMRON CS1 PLC, POWER SUPPLIES, INTERCOM AND PAGING AMPLIFIERS, NETWORK SWITCH, ETC.
 - 4 PROVIDE NEW 8KVA UPS AND BYPASS SWITCH (BY DIV. 28), POWER DISTRIBUTION PANEL BY DIV. 26.
 - 5 NEW EQUIPMENT CABINETS SHALL BE PROVIDED WITH LOCKABLE DOORS AND 10" FANS TO MAINTAIN TEMPERATURE REQUIRED BY THE EQUIPMENT MANUFACTURERS.
 - 6 EXISTING HANWHA VIDEO MANAGEMENT SERVERS AND VIDEO STORAGE WILL BE REUSED.



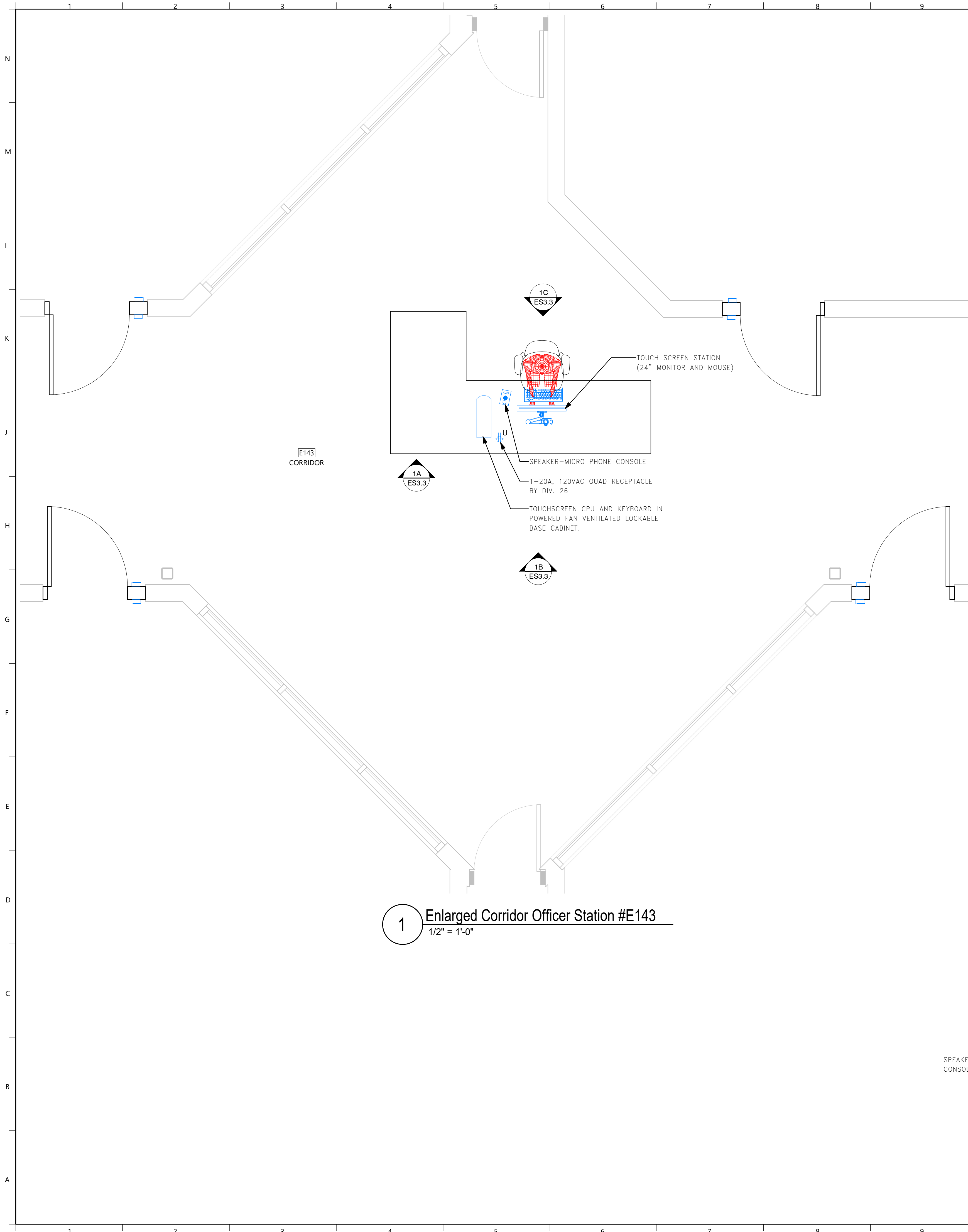
1 Enlarged I.T. Room #Y77
1/2" = 1'-0"

1A EQUIPMENT PHOTO
NOT TO SCALE



2 Enlarged Security Room #E139
1/2" = 1'-0"

2A EQUIPMENT PHOTO
NOT TO SCALE



1 Enlarged Corridor Officer Station #E143
1/2" = 1'-0"



1A EQUIPMENT PHOTO
NOT TO SCALE



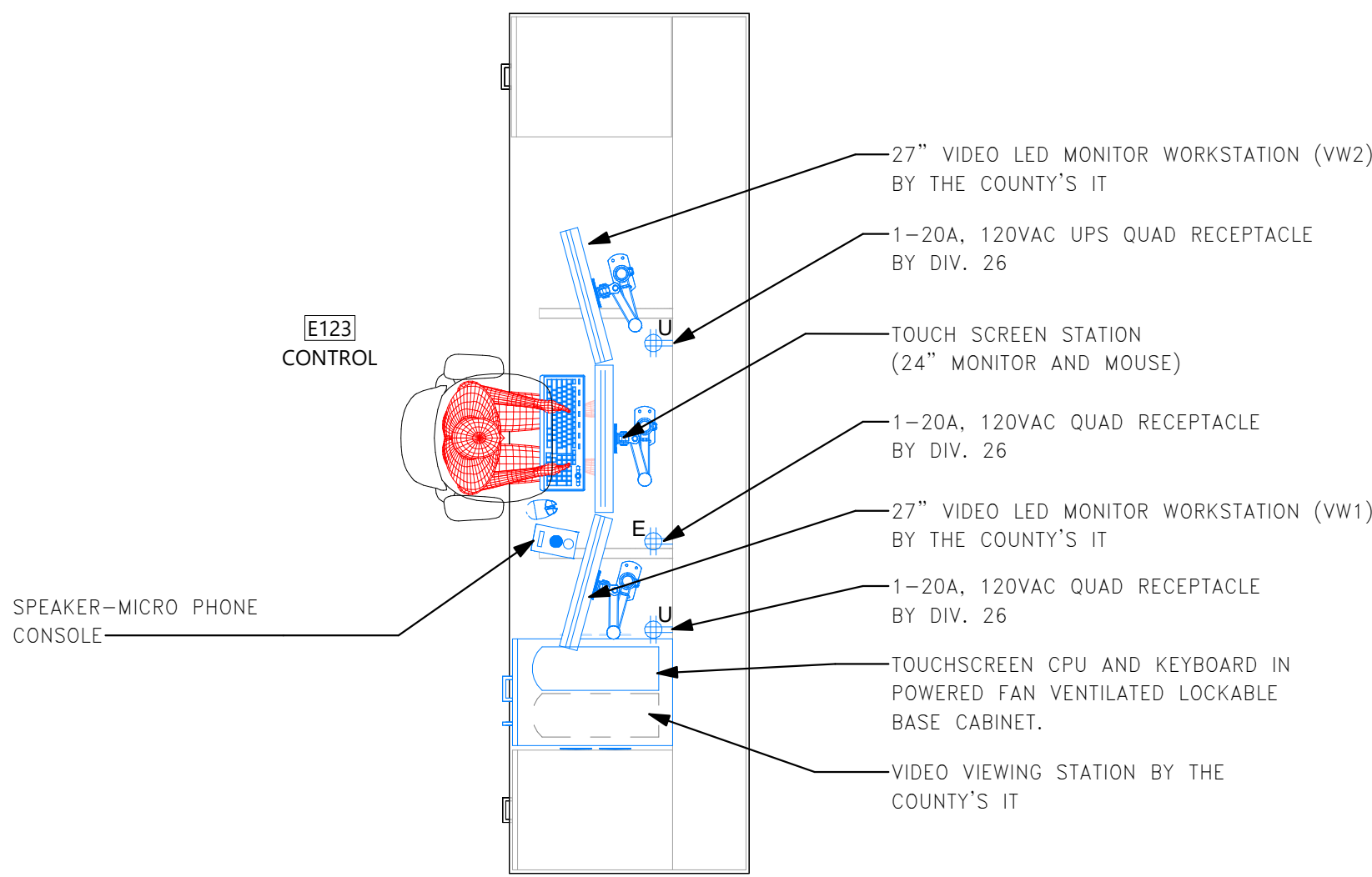
1B EQUIPMENT PHOTO
NOT TO SCALE



1C EQUIPMENT PHOTO
NOT TO SCALE

NOTES BY SYMBOL (◇)

- EXISTING GRAPHIC CONTROL PANELS TO BE REMOVED AND RETURNED TO THE OWNER.
- THE EXISTING SECURITY SYSTEM DESK AND BASE CABINET SHALL BE REUSED.
- EXISTING SECURITY WIRING CURRENTLY ROUTED TO THE BASE CABINET SHALL BE CLEANED AND MANAGED (LABELED, GROUPED TOGETHER PER DISCIPLINE). REMOVE ALL WIRING ASSOCIATED WITH THE VEHICLE GATES THAT WILL BE REMOVED AS PART OF THIS PROJECT. INTERCOM AND PAGING WIRING FOR THE FIELD DEVICES THAT WILL REMAIN IN USE SHALL BE TERMINATED TO TERMINAL BLOCK, LABELED AND EXTENDED TO SECURITY ROOM #139. ALL EXTENSION WIRING WILL RUN IN CONDUIT.
- PROVIDE 1-2" CONDUITS FOR THE INTERCOM SYSTEM EXTENSION WIRING. RUN THE CONDUIT ABOVE THE CEILING.



2 Enlarged Control Room #E123 (NEW LAYOUT)
1/2" = 1'-0"

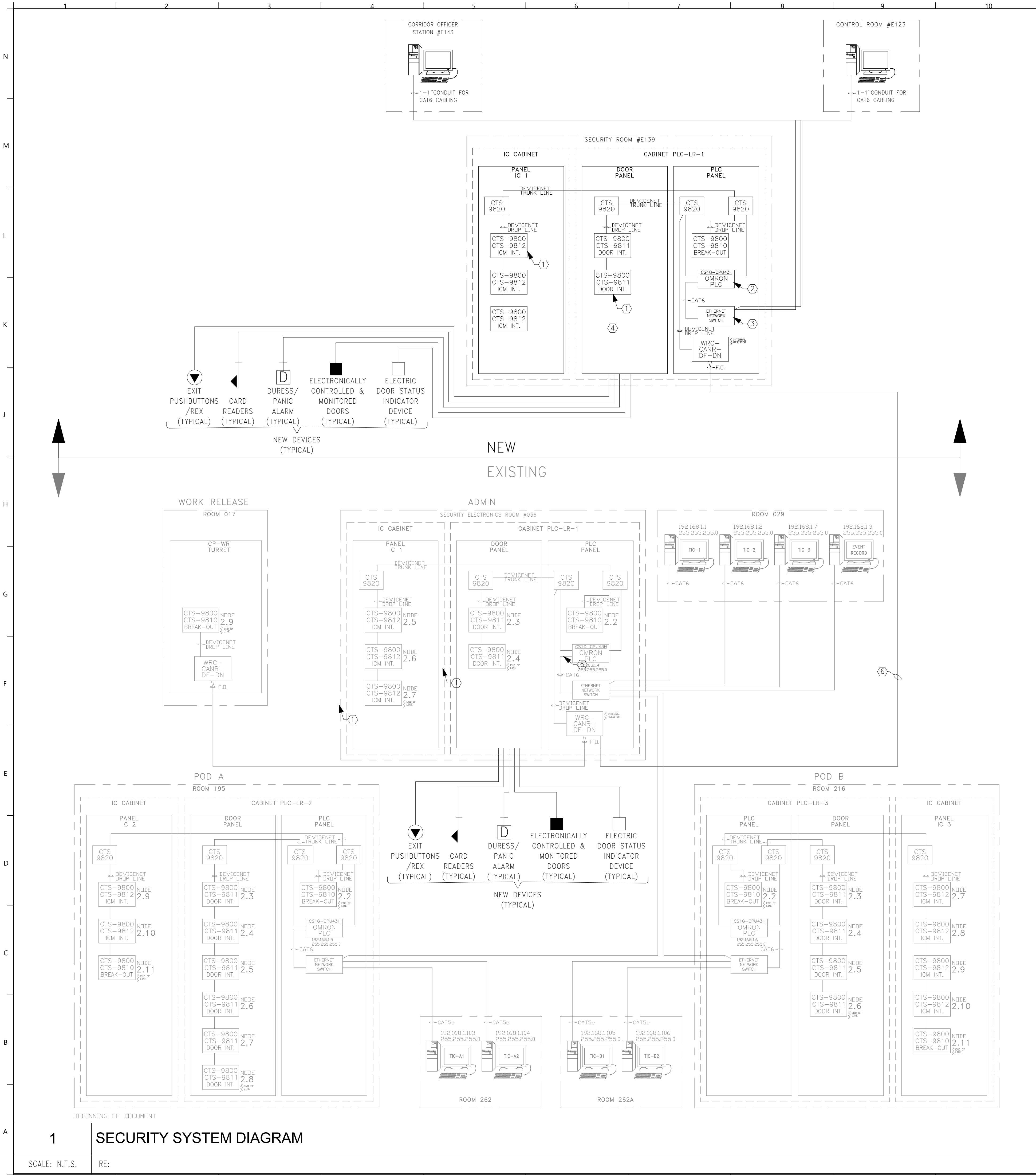
LattaTech
Advanced Security Engineering
LATTA TECHNICAL SERVICES INC.
1255 West 15th Street, Suite 300
Plano, TX 75075
T: (972) 633-5850 *F: (469)467-0300
Corporate P.E. Board Reg. No. E-880



Hight Jackson
ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72781 | (479) 464-4965 | www.hjarch.com

AN ADDITION AND REMODEL FOR
Washington Co. Covid Mitigation
FAYETTEVILLE, AR

DRAWN BY:
MG
CHECK BY:
IA
ISSUE DATE
08/30/2024
PROJECT NO.
2333
REVISION DATES
09/20/2024
ENLARGED PLANS
SHEET
ES3.3
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- NOTES:
1. ADD NEW COM-TEC RELAY BOARDS AND CONTROLLERS. THE NUMBER OF NEW COM-TEC BOARDS WILL BE DETERMINED BASED ON NUMBER OF FIELD DEVICES TERMINATED AT THIS LOCATION.
 2. PROVIDE NEW OMRON PLC THAT WILL BE INTEGRATED WITH THE EXISTING SYSTEM.
 3. PROVIDE NEW NETWORK SWITCH TO INTERFACE EXISTING SYSTEM AND NEW HEAD-END EQUIPMENT CONTROLLING NEW SECURITY FIELD DEVICES.
 4. PROVIDE NEW AMPLIFIERS FOR NEW INTERCOM STATIONS AND PAGING SPEAKERS.
 5. EXPANDED THE EXISTING OMRON CS1 PLC TO ALLOW THE ADDITION OF NEW ELECTRONIC SECURITY SYSTEM FIELD DEVICES.
 6. THE EXISTING FIBER OPTIC BACKBONE WILL BE USED TO INTEGRATE THE EXISTING AND NEW ELECTRONIC SECURITY SYSTEMS.