



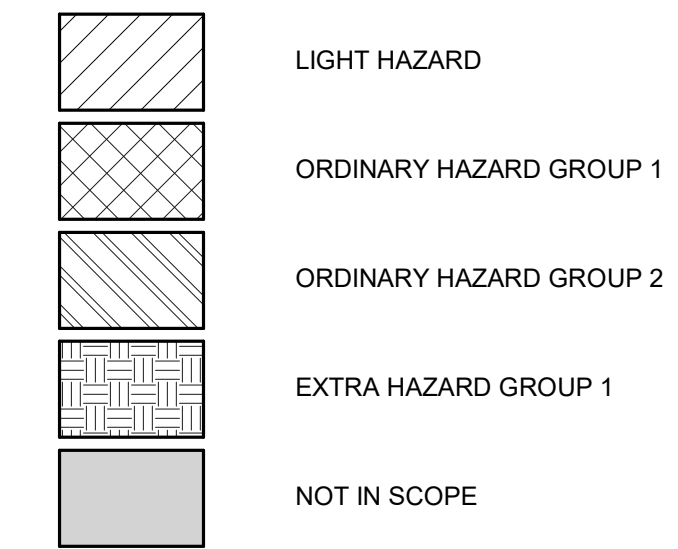
**FIRE PROTECTION DEMO NOTES**

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- EXISTING ROOFING SYSTEMS SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL PATCH AND PAINT TO MATCH EXISTING WHERE FINISHED SURFACES ARE DISTURBED BY FIRE SUPPRESSION DEMOLITION.

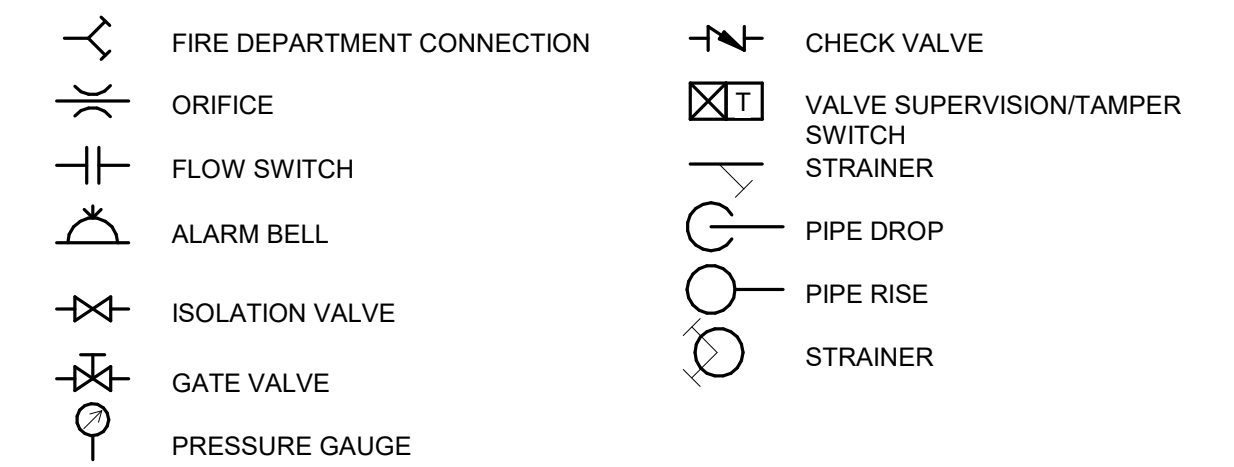
**FIRE PROTECTION GENERAL NOTES**

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- ELEVATION OF PIPING INDICATED ON THESE DRAWINGS ARE TO BE USED AS GUIDELINES TO ASSIST WITH INSTALLATIONS. MINOR CHANGES TO THESE ELEVATIONS MAY BE NECESSARY TO ELIMINATE UNFORESSEEN INTERFERENCES. ANY CHANGE IN ELEVATION SHALL BE APPROVED PRIOR TO CHANGE.
- ANY AND ALL INFORMATION SHOWN ON THESE DRAWINGS WITH RESPECT TO EXISTING STRUCTURES, UTILITIES, AND MECHANICAL SYSTEMS, IS AS EXACT AS COULD BE SECURED. THE INFORMATION IS NOT WARRANTED NOR GUARANTEED ACCURATE. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK.
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- SEQUENCE OF WORK AND/OR PLACE OF COMMENCEMENT OF WORK SHALL BE APPROVED PRIOR TO WORK BEING STARTED. SCHEDULED SHUTDOWNS SHALL BE CLOSELY COORDINATED WITH OWNER & EXISTING OPERATIONS.
- ACCURATE AND LEGIBLE RECORD (AS-BUILT) DRAWINGS SHALL BE MAINTAINED AT THE JOB SITE, AND BE SUBMITTED PRIOR TO FINAL PAYMENT.
- ALL EXISTING ROOFING SYSTEMS SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
- TEMPORARILY PATCH ALL ROOF OPENINGS WATERTIGHT UNTIL FINAL CLOSURE CAN BE MADE.
- VERIFY ALL EQUIPMENT LOCATIONS AND PIPE ROUTING WITH OWNER PRIOR TO INSTALLATION.
- ALL SPRINKLER IN ACOUSTICAL CEILINGS SHALL BE LOCATED IN THE CENTER OF CEILING TILE.
- PROVIDE CONCEALED SPRINKLER HEADS IN ALL FINISHED AREAS.
- COORDINATE WITH ARCHITECTURAL PLANS FOR CEILING TYPES AND HEIGHTS.
- VISIT THE BUILDING SITE & BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS AFFECTING WORK.
- NOMINAL FINISHED FLOOR ELEVATION = 100.0 FT. UNLESS OTHERWISE NOTED.
- GENERAL NOTES APPLY UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL FOLLOW SYSTEM IMPAIRMENT REQUIREMENTS PER NFPA.
- QUALIFIED CONTRACTORS SHALL INSTALL BOTH FIRE SUPPRESSION AND FIRE DETECTION AS AN ALL INCLUSIVE SYSTEM.
- REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
- REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
- REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

**FIRE PROTECTION GROUP PATTERN LEGEND:**



**FIRE PROTECTION SYMBOLS:**

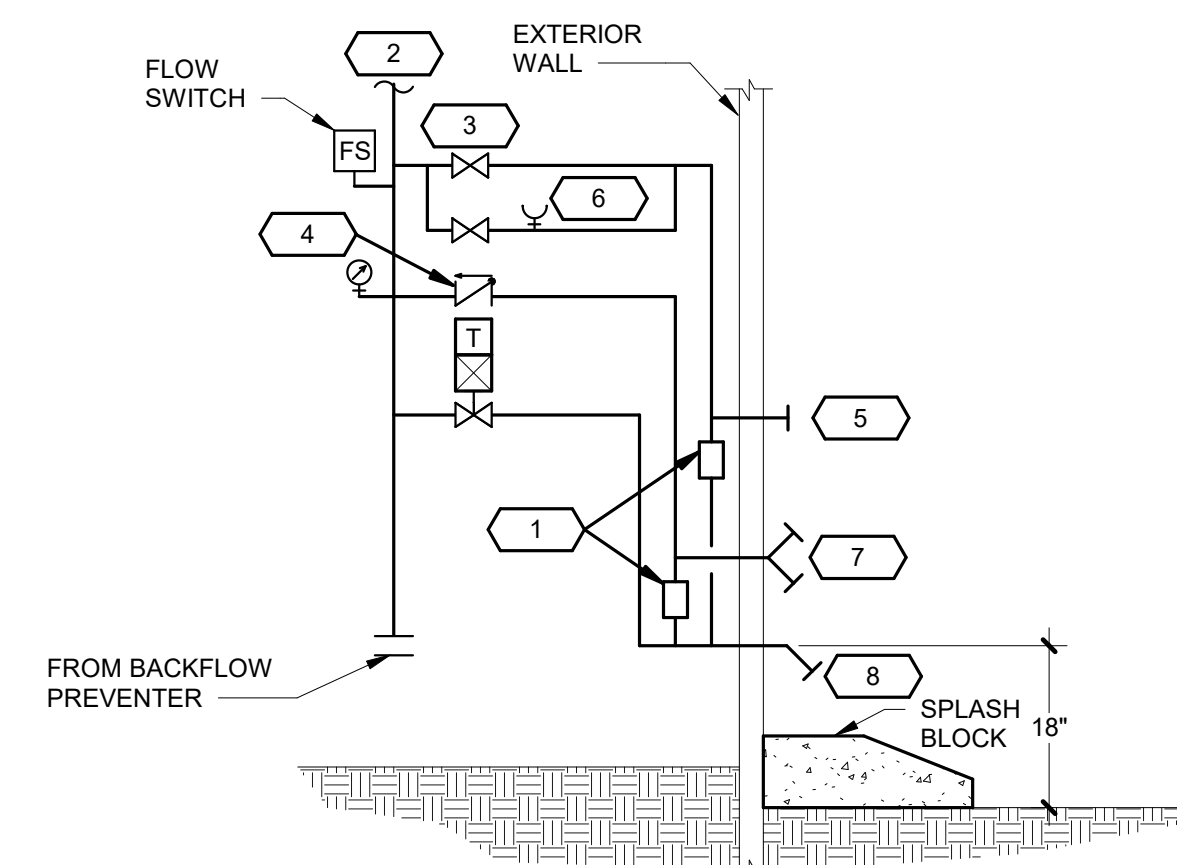


**KEYED NOTES**

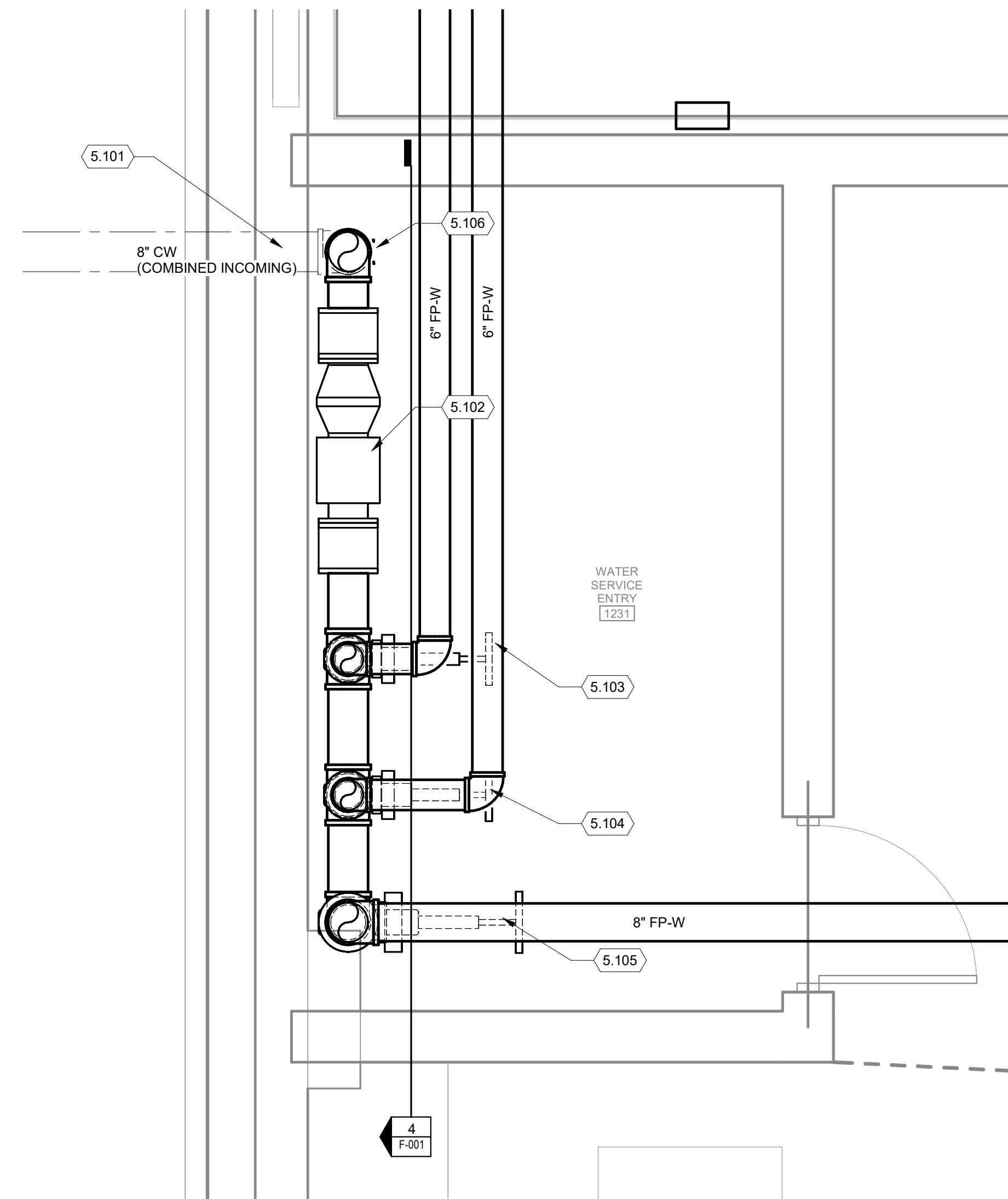
- NEW COMBINED FIRE AND DOMESTIC INCOMING SERVICE. SEE CIVIL PLANS FOR EXTERIOR CONTINUATION.
- DOUBLE CHECK BACKFLOW PREVENTER
- NEW ZONE CONTROL ASSEMBLY FOR EXISTING SPRINKLER SYSTEM 5. PROVIDE TRIM AND ACCESSORIES AS SHOWN IN DETAIL 1 ON SHEET F-100
- NEW SYSTEM 7 FIRST FLOOR ZONE CONTROL ASSEMBLY. PROVIDE TRIM AND ACCESSORIES AS SHOWN IN DETAIL 1 ON SHEET F-100. SYSTEM 7 TO BE INSTALLED IN A FUTURE PHASE. CAP ZONE FEED MAIN IN LOCATION COORDINATED WITH SCOPE OF WORK.
- NEW SYSTEM 7 SECOND FLOOR ZONE CONTROL ASSEMBLY. PROVIDE TRIM AND ACCESSORIES AS SHOWN IN DETAIL 1 ON SHEET F-100. SYSTEM 7 TO BE INSTALLED IN A FUTURE PHASE. CAP ZONE FEED MAIN IN LOCATION COORDINATED WITH SCOPE OF WORK.
- TO DOMESTIC WATER SYSTEM. SEE SHEET P-431 FOR INTERIOR DOMESTIC CONTINUATION

**RISER SCHEMATIC KEYED NOTES:**

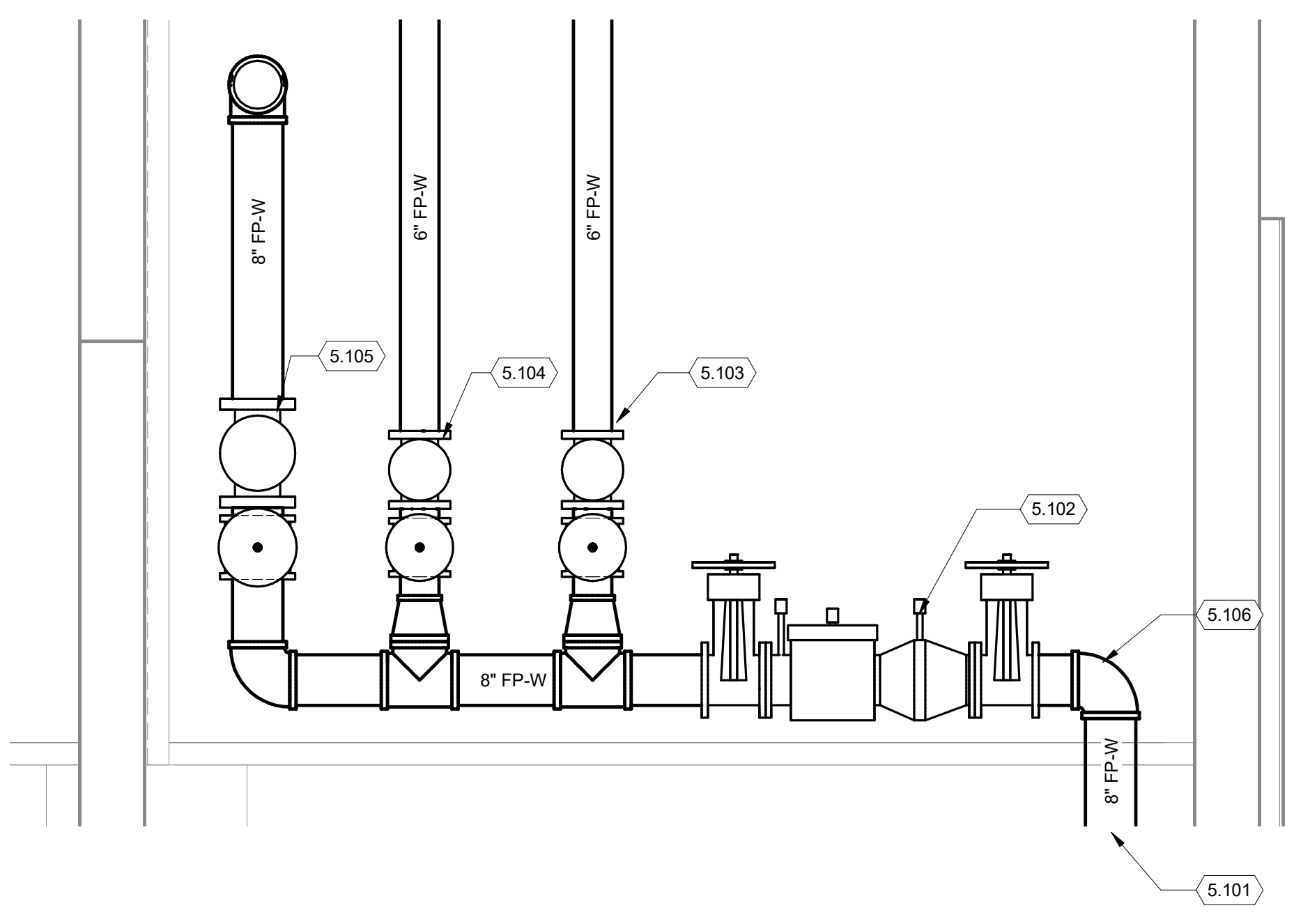
- BALL DRIP VALVE.
- TO WET PIPE SPRINKLER SYSTEM.
- ALARM TEST VALVE.
- CHECK VALVE WITH REMOVABLE INTERNAL CHECK.
- FORWARD FLOW TEST CONNECTION AT 48" ABOVE FINISHED FLOOR.
- 1" SPRINKLER TEST.
- FIRE DEPT. CONNECTION AT 36" ABOVE FINISHED GRADE.
- 2" DRAIN OUTLET.



**1 WET PIPE SPRINKLER RISER SCHEMATIC**  
NO SCALE



**3 FIRE RISER ROOM PLAN**  
1/2" = 1'-0"



**4 FIRE PROTECTION RISER**  
1/2" = 1'-0"



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**CITY OF MADISON  
METRO TRANSIT PHASE 3A - MAINTENANCE AND  
DRIVER FACILITY IMPROVEMENTS  
1101 EAST WASHINGTON AVE.  
MADISON, WI 53703**

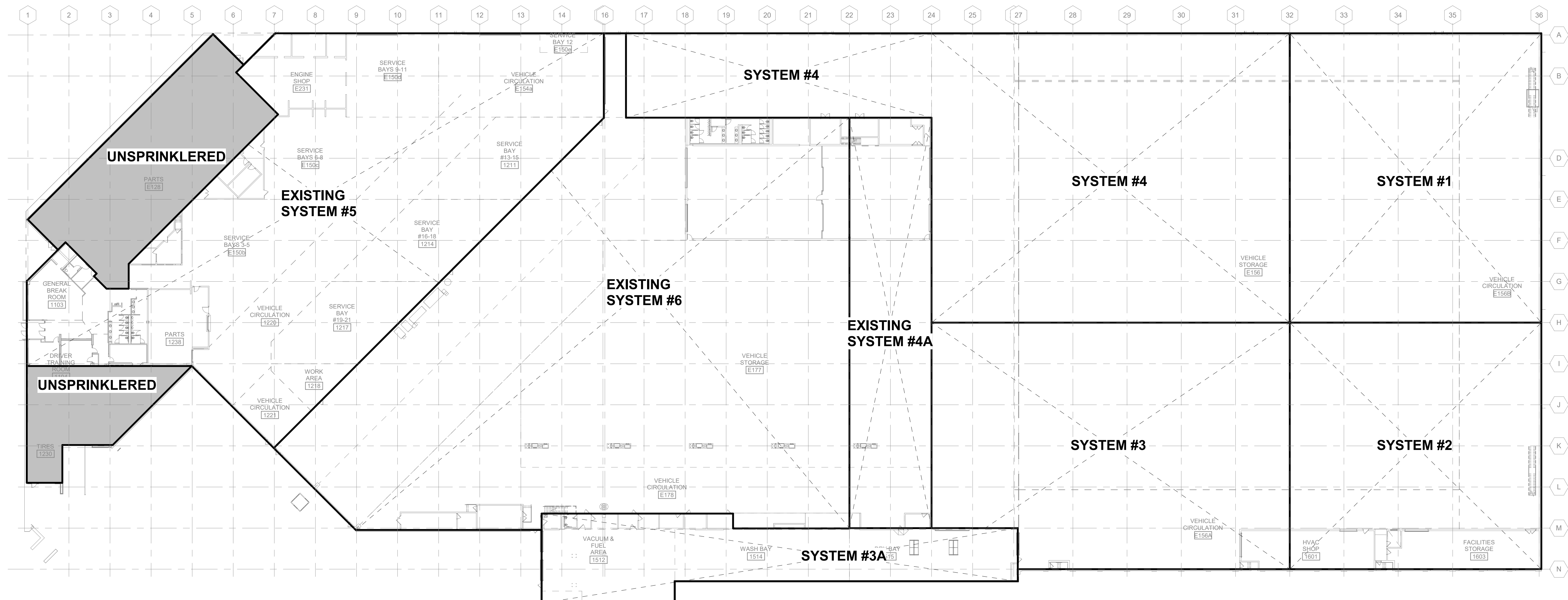
ISSUED  
04/08/21 BID SET

CONTRACT NO.: 899  
M&H NO.: 4503500-180896.03  
DATE: April 8, 2021  
DESIGNED BY: DG  
DRAWN BY: DG  
CHECKED BY: RMM  
DO NOT SCALE DRAWINGS

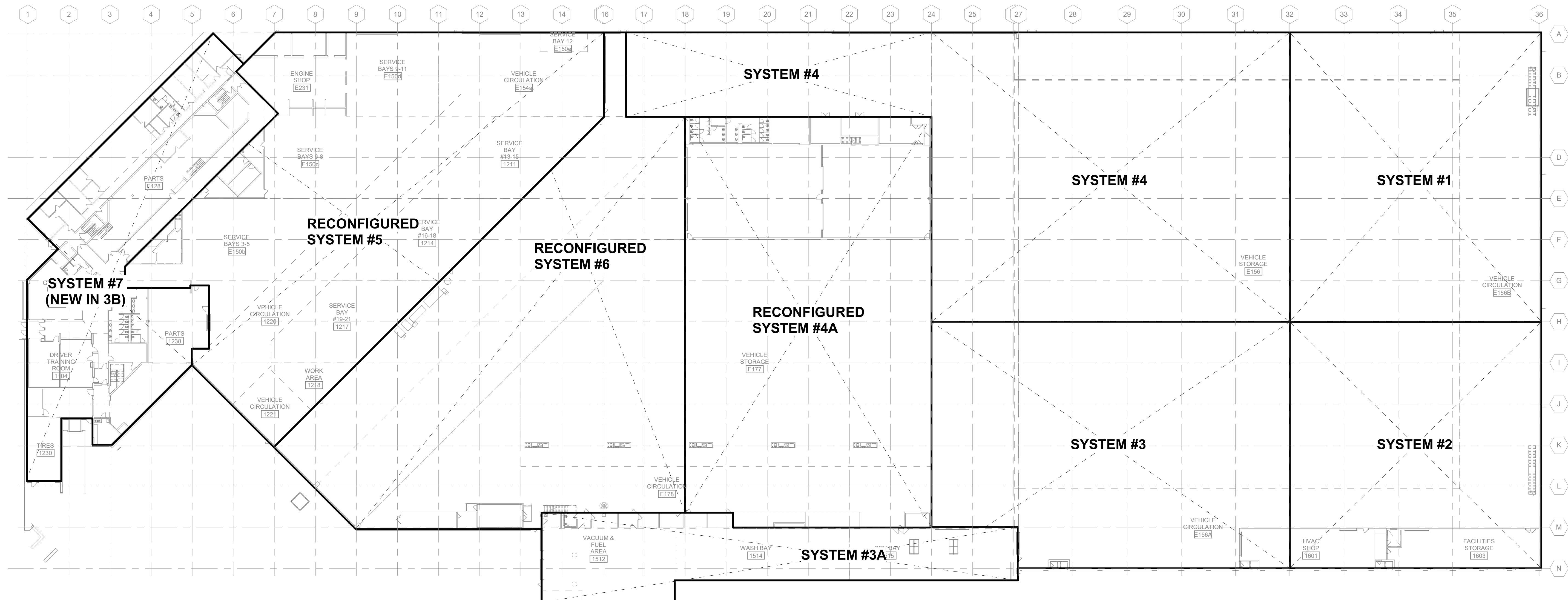
SHEET CONTENTS  
FIRE PROTECTION  
ZONE PLANS

SHEET NO.:

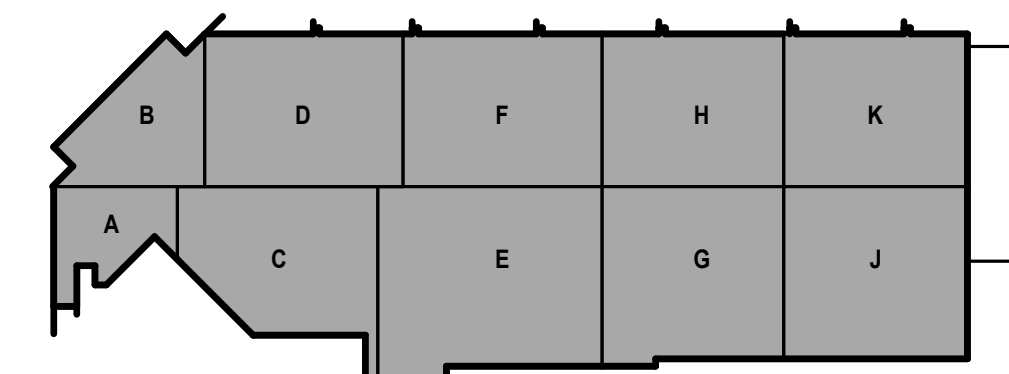
**F-002**



**1 FIRST FLOOR FIRE PROTECTION ZONES - EXISTING**  
1/32" = 1'-0"



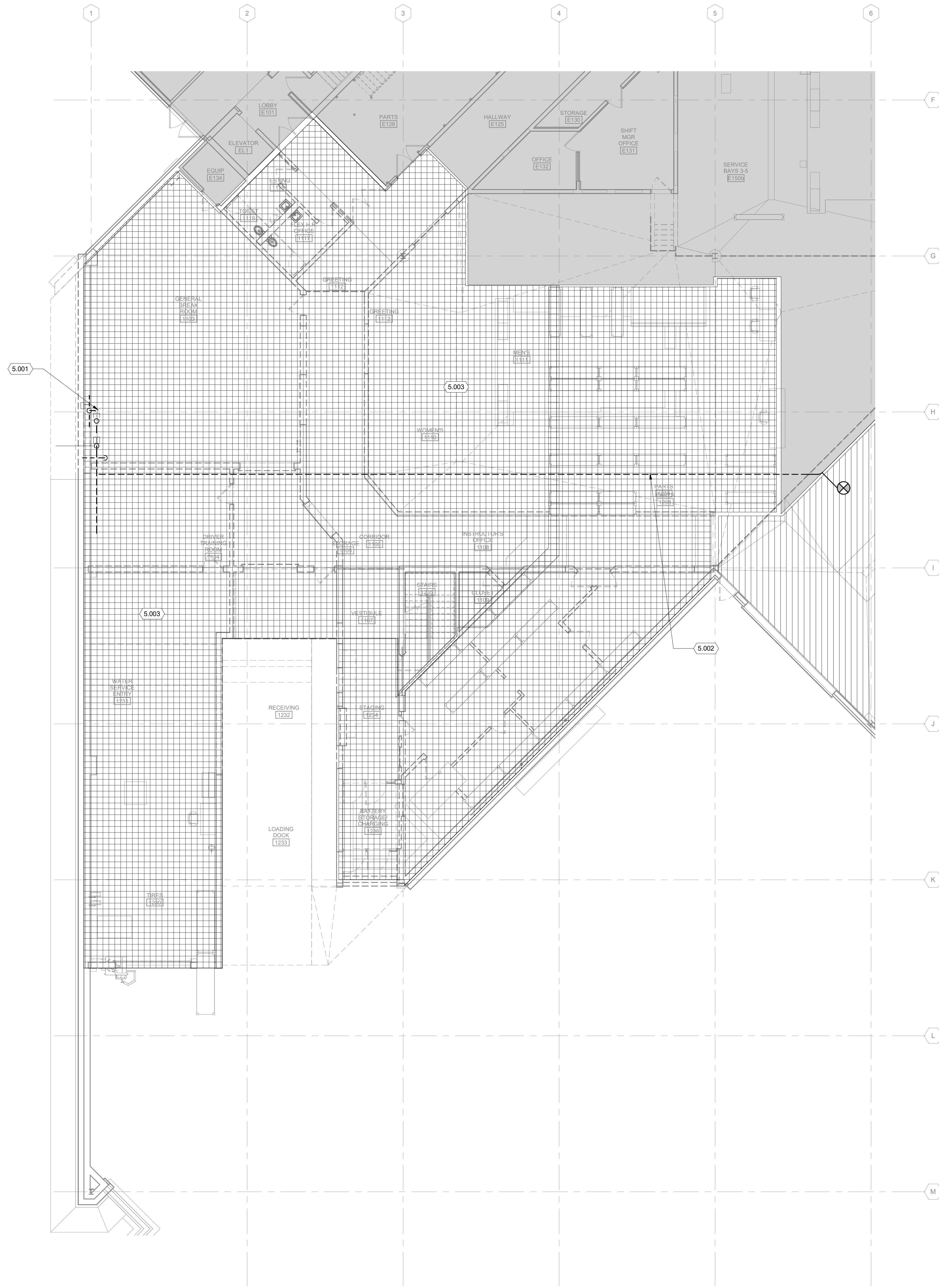
**2 FIRST FLOOR FIRE PROTECTION ZONES**  
1/32" = 1'-0"



KEY PLAN

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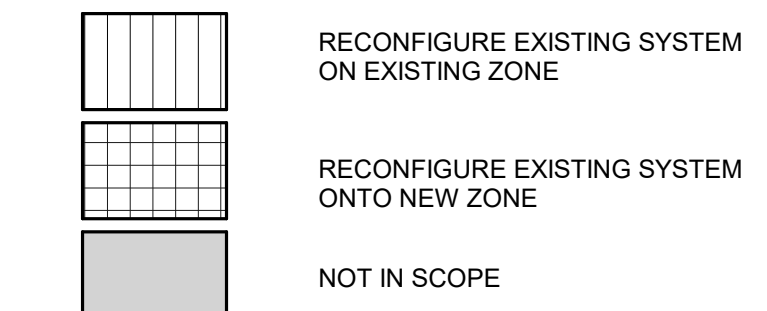


**1** FIRST FLOOR FIRE PROTECTION DEMOLITION PLAN - AREA A  
1/8" = 1'-0"

**FIRE PROTECTION DEMO NOTES**

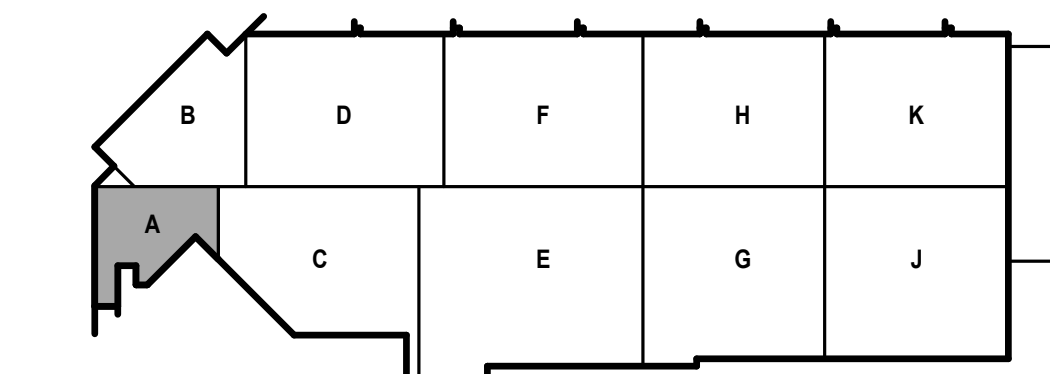
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**FIRE PROTECTION DEMO PATTERN LEGEND:**



**KEYED NOTES**

- REMOVE EXISTING RISER ASSEMBLY IN ITS ENTIRETY INCLUDING ALL PIPING, VALVES, TRIM, SUPERVISING DEVICES, AND OTHER COMPONENTS. CAP INCOMING SERVICE AT FIRST FLANGE WITHIN THE BUILDING.
- REMOVE SEGMENT OF EXISTING SPRINKLER SYSTEM 5 FEED MAIN BETWEEN EXISTING RISER AND INDICATED POINT OF CONNECTION.
- RECONFIGURE INDICATED AREA TO BE PROTECTED BY NEW SPRINKLER SYSTEM 7.



KEY PLAN





**CITY OF MADISON  
METRO TRANSIT PHASE 3A - MAINTENANCE AND  
DRIVER FACILITY IMPROVEMENTS**  
1101 EAST WASHINGTON AVE.  
MADISON, WI 53703

ISSUED  
04/08/21 BID SET

CONTRACT NO.: 891  
M&H NO.: 4503500-190896.03  
DATE: April 8, 2021  
DESIGNED BY: DG  
DRAWN BY: DG  
CHECKED BY: RMM

DO NOT SCALE DRAWINGS  
SHEET CONTENTS  
FIRST FLOOR FIRE  
PROTECTION  
DEMOLITION PLAN -  
AREA B


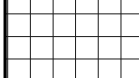

SHEET NO.:

**FD101B**

**FIRE PROTECTION DEMO NOTES**

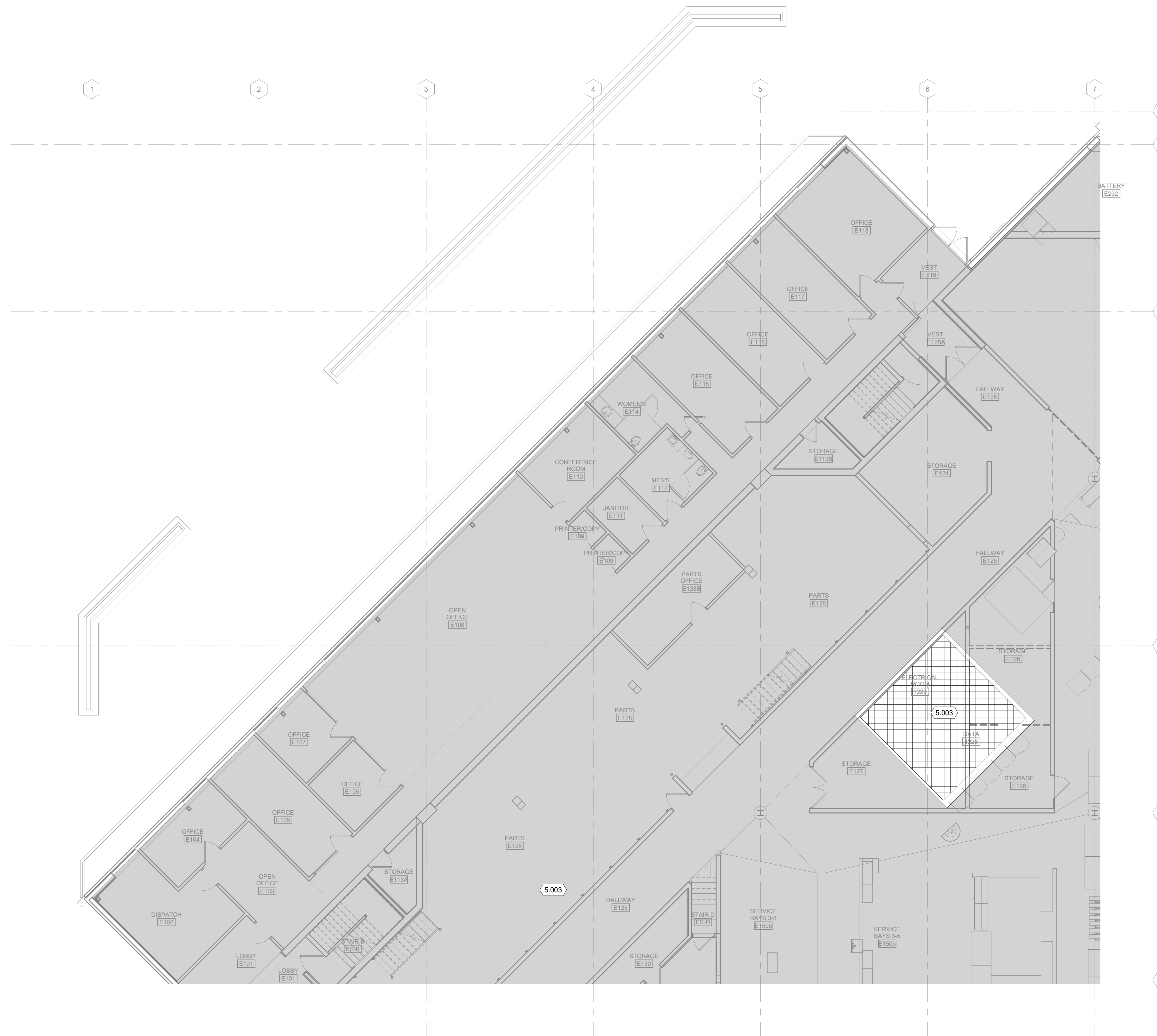
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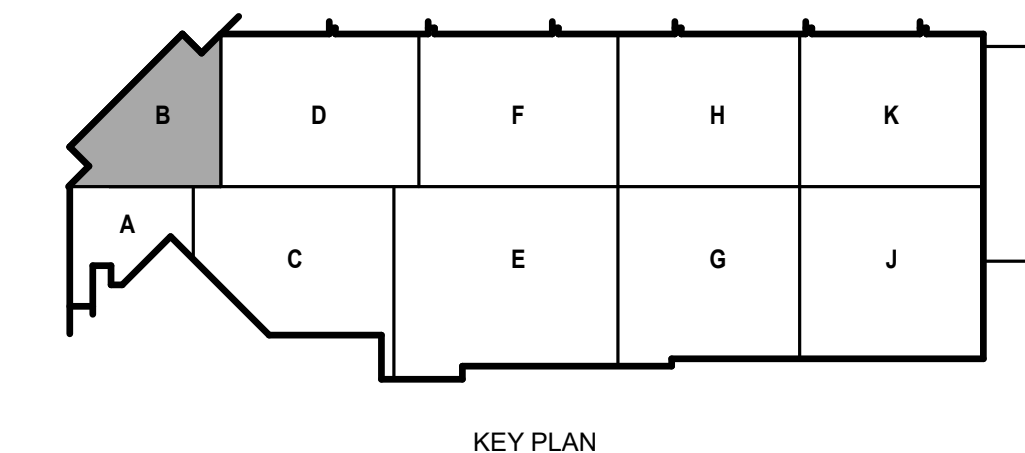
-  RECONFIGURE EXISTING SYSTEM ON EXISTING ZONE
-  RECONFIGURE EXISTING SYSTEM ONTO NEW ZONE
-  NOT IN SCOPE

**KEYED NOTES**

- 5.003 RECONFIGURE INDICATED AREA TO BE PROTECTED BY NEW SPRINKLER SYSTEM 7



**1 FIRST FLOOR FIRE PROTECTION DEMOLITION PLAN - AREA B**  
1/8" = 1'-0"





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DATE: April 8, 2021  
DESIGNED BY: DG  
DRAWN BY: DG  
CHECKED BY: RMM

DO NOT SCALE DRAWINGS  
SHEET CONTENTS  
FIRST FLOOR FIRE  
PROTECTION  
DEMOLITION PLAN -  
AREA C


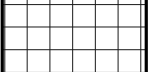

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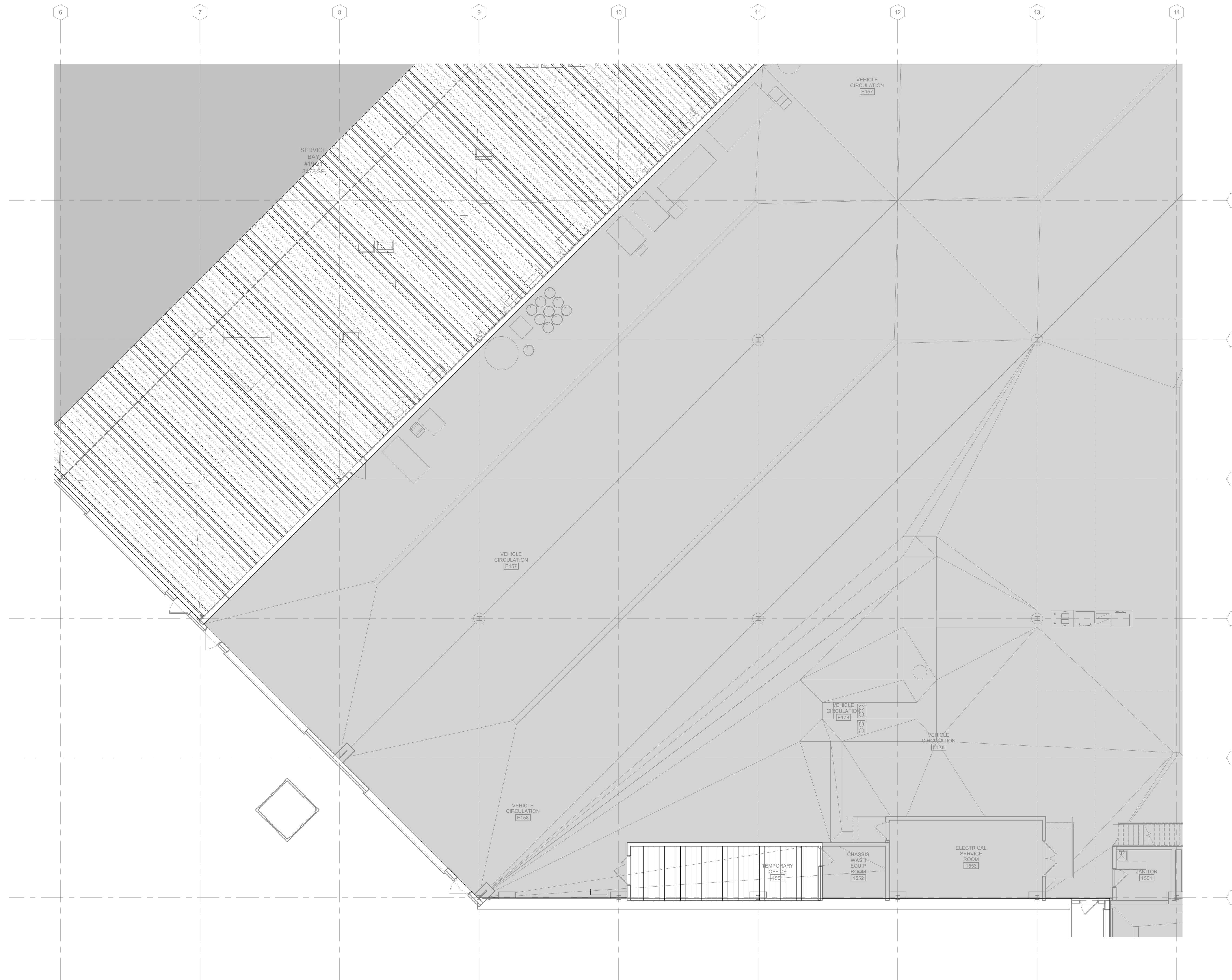
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**FIRE PROTECTION DEMO NOTES**

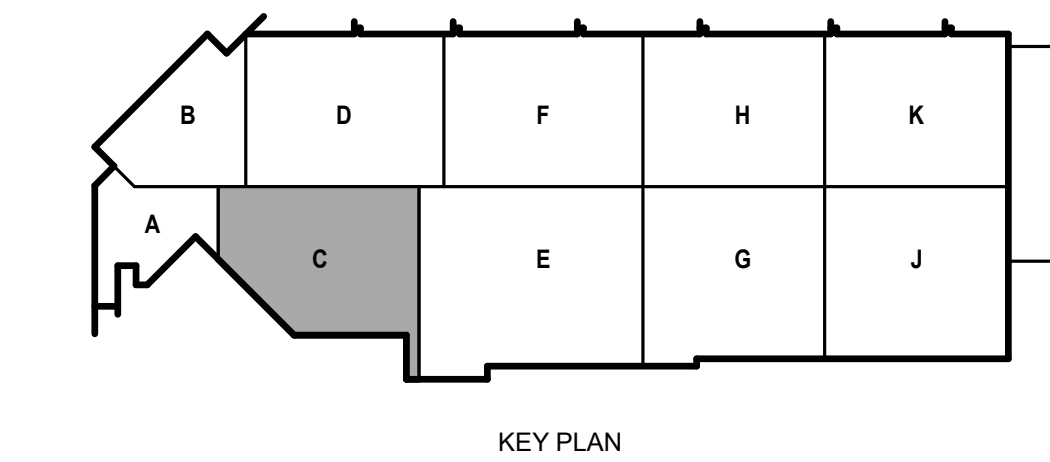
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**N 1 FIRST FLOOR FIRE PROTECTION DEMOLITION PLAN - AREA C**  
1/8" = 1'-0"


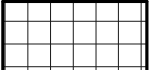



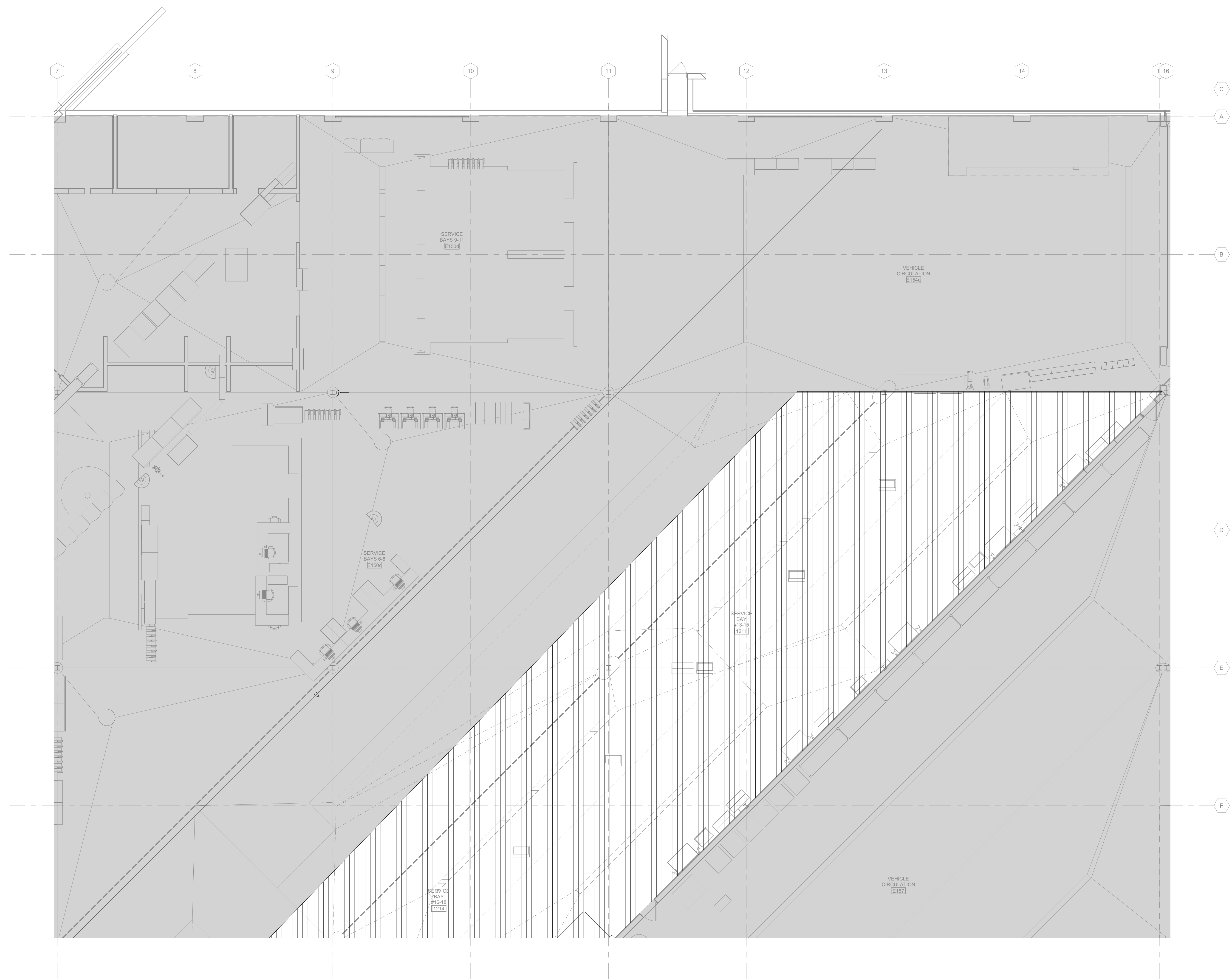


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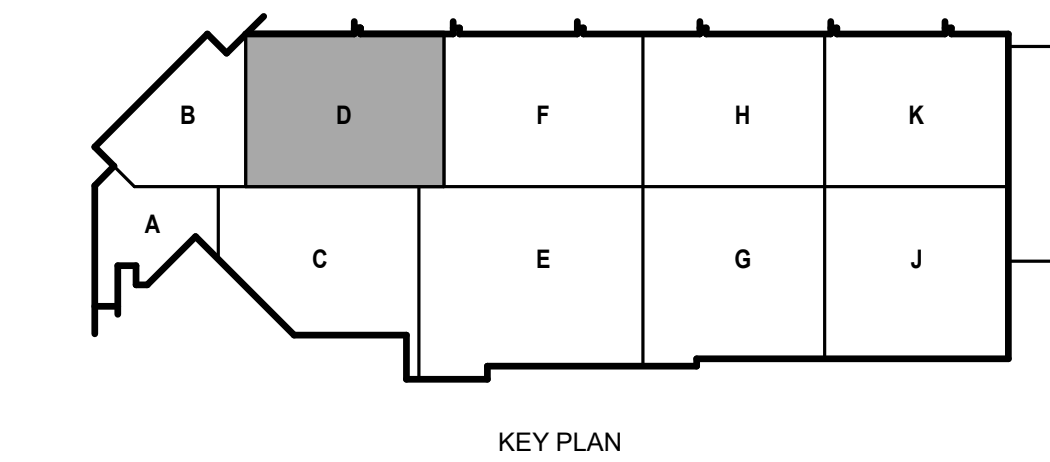
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-  NOT IN SCOPE



**N 1 FIRST FLOOR FIRE PROTECTION DEMOLITION PLAN - AREA D**  
1/8" = 1'-0"





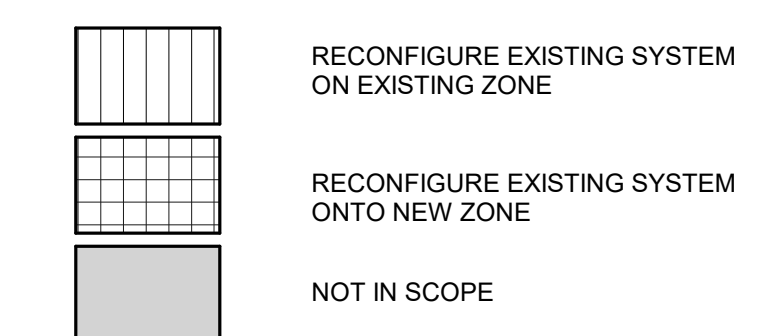
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**FIRST FLOOR - AREA F - ALTERNATE BID #1**

- SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM, LOCKER ROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

**FIRE PROTECTION DEMO PATTERN LEGEND:**

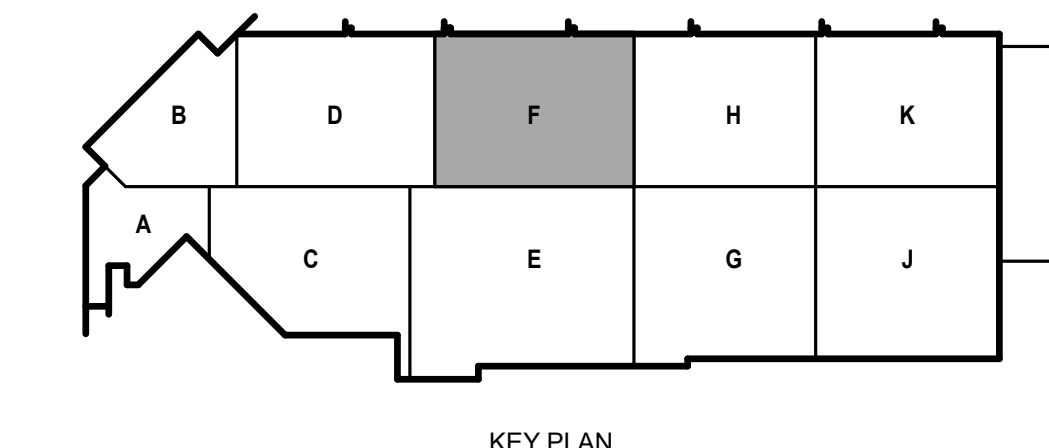


**KEYED NOTES**

- 5.004 RECONFIGURE INDICATED AREA TO BE PROTECTED BY EXISTING SPRINKLER SYSTEM 4A



**1** FIRST FLOOR FIRE PROTECTION DEMOLITION PLAN - AREA F  
1/8" = 1'-0"







**CITY OF MADISON  
METRO TRANSIT PHASE 3A - MAINTENANCE AND  
DRIVER FACILITY IMPROVEMENTS  
1101 EAST WASHINGTON AVE.  
MADISON, WI 53703**

ISSUED

CONTRACT NO.: 898  
RFP NO.: 4503500-190896.03  
DATE: April 8, 2021  
DESIGNED BY: DG  
DRAWN BY: DG  
CHECKED BY: RMM

DO NOT SCALE DRAWINGS  
SHEET CONTENTS  
SECOND FLOOR  
FIRE PROTECTION  
DEMOLITION PLAN -  
AREA A

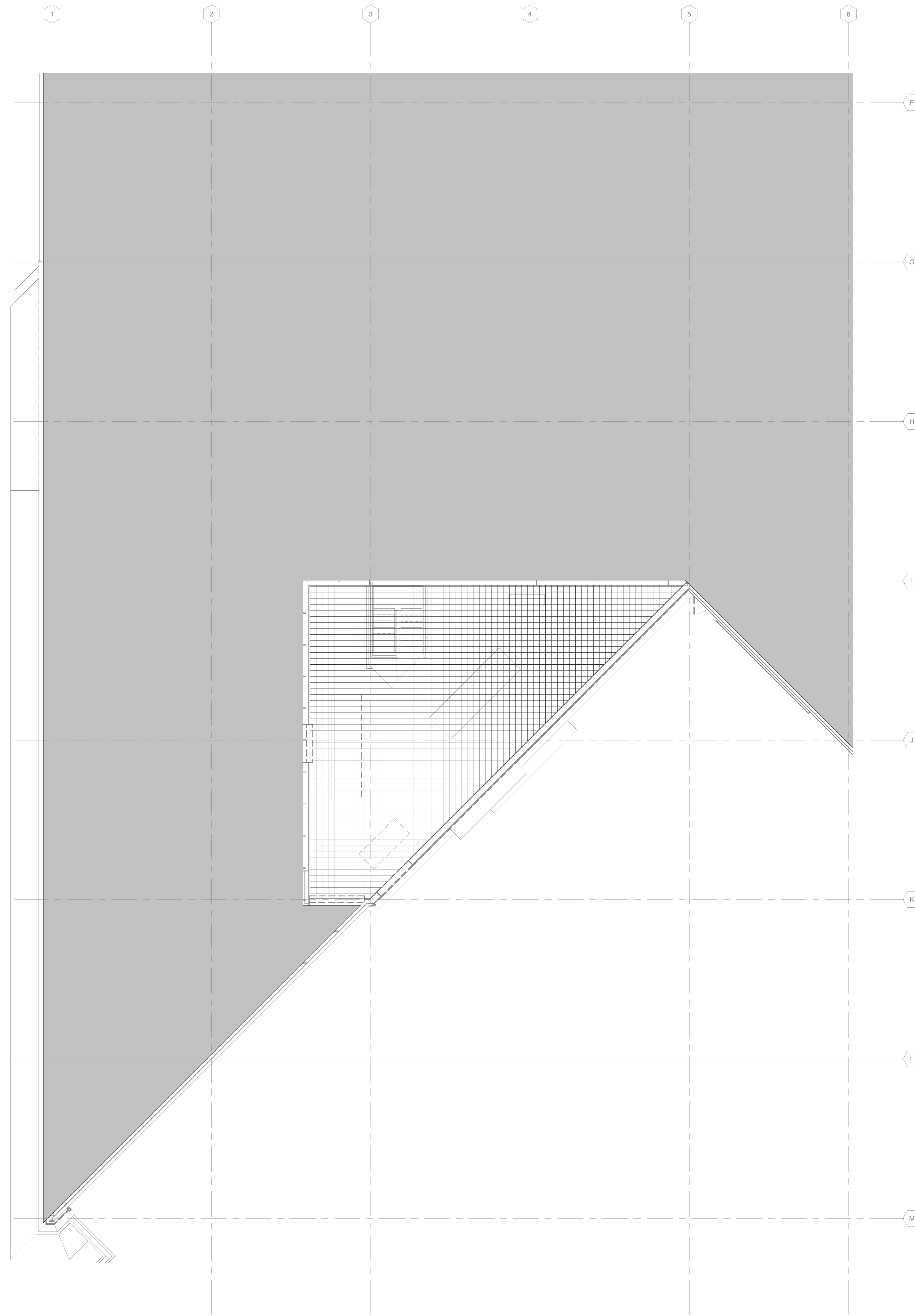
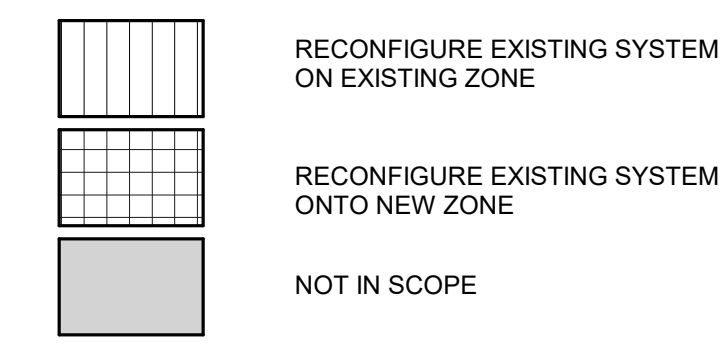
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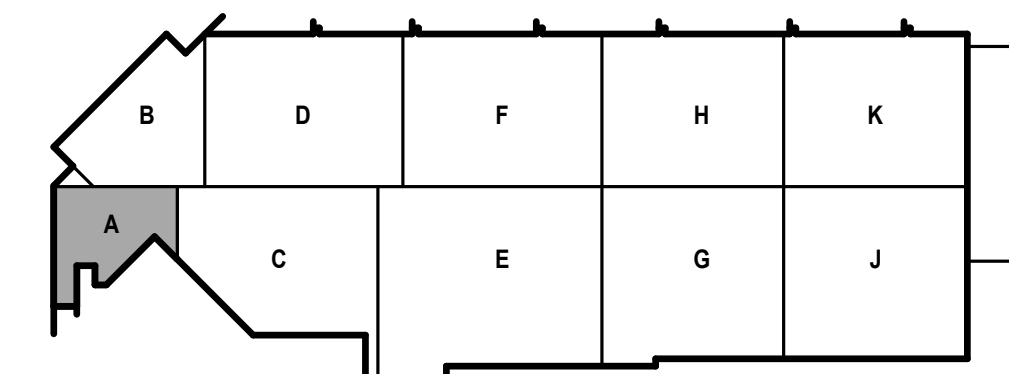
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**FIRE PROTECTION DEMO PATTERN LEGEND:**



**1 SECOND FLOOR FIRE PROTECTION DEMOLITION PLAN - AREA A**  
1/8" = 1'-0"



KEY PLAN



**CITY OF MADISON**  
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DEMOLITION PLAN -  
AREA F


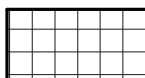
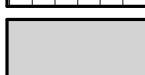
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**FIRE PROTECTION DEMO NOTES**

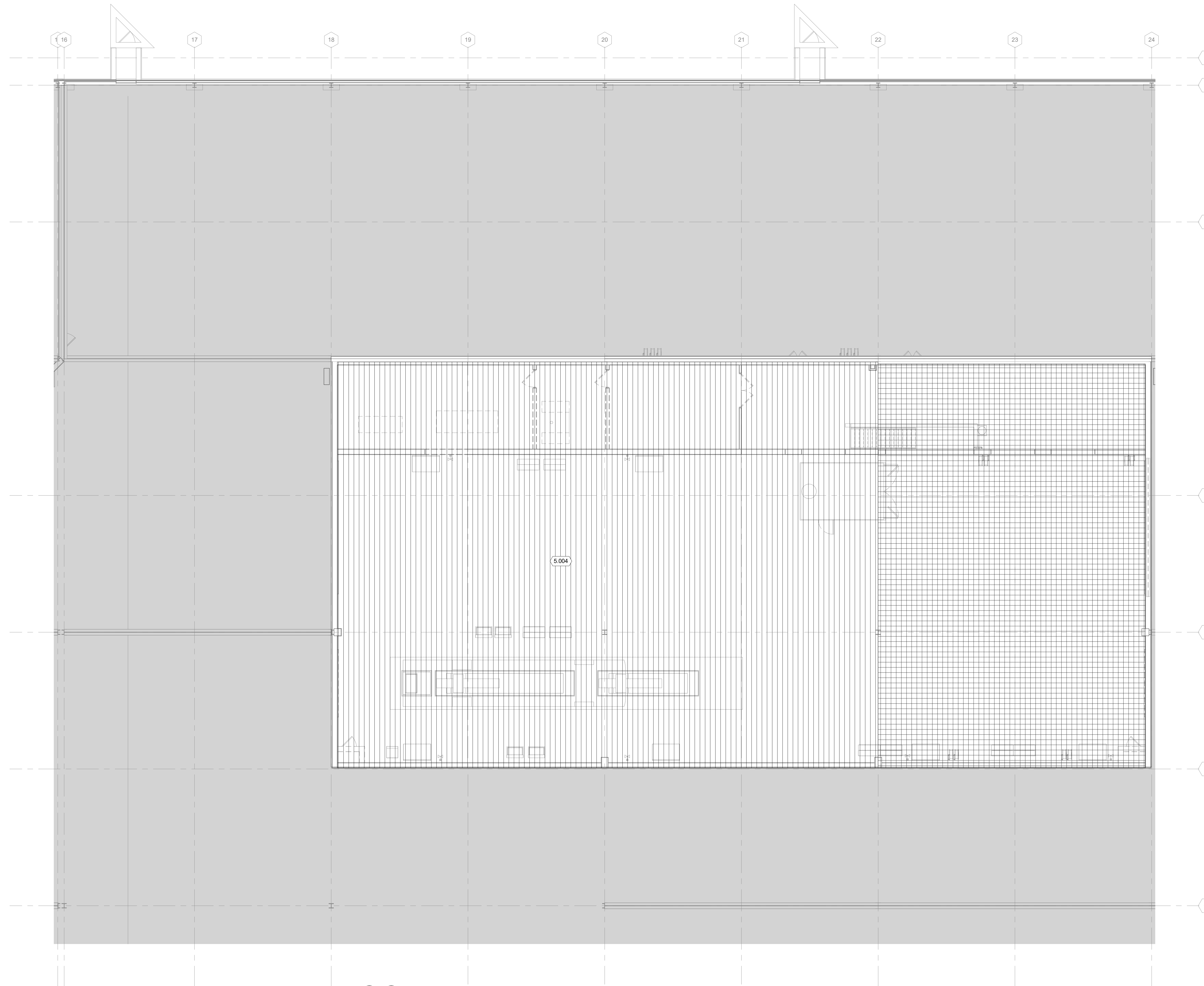
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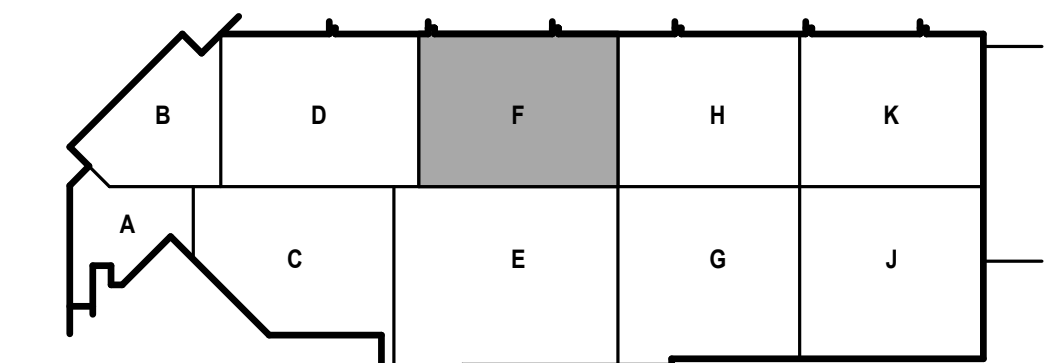
-  RECONFIGURE EXISTING SYSTEM ON EXISTING ZONE
-  RECONFIGURE EXISTING SYSTEM ONTO NEW ZONE
-  NOT IN SCOPE

**KEYED NOTES**

- 5.004 RECONFIGURE INDICATED AREA TO BE PROTECTED BY EXISTING SPRINKLER SYSTEM 4A



**1** SECOND FLOOR FIRE PROTECTION DEMOLITION PLAN - AREA F  
1/8" = 1'-0"



KEY PLAN



**FIRE PROTECTION GENERAL NOTES**

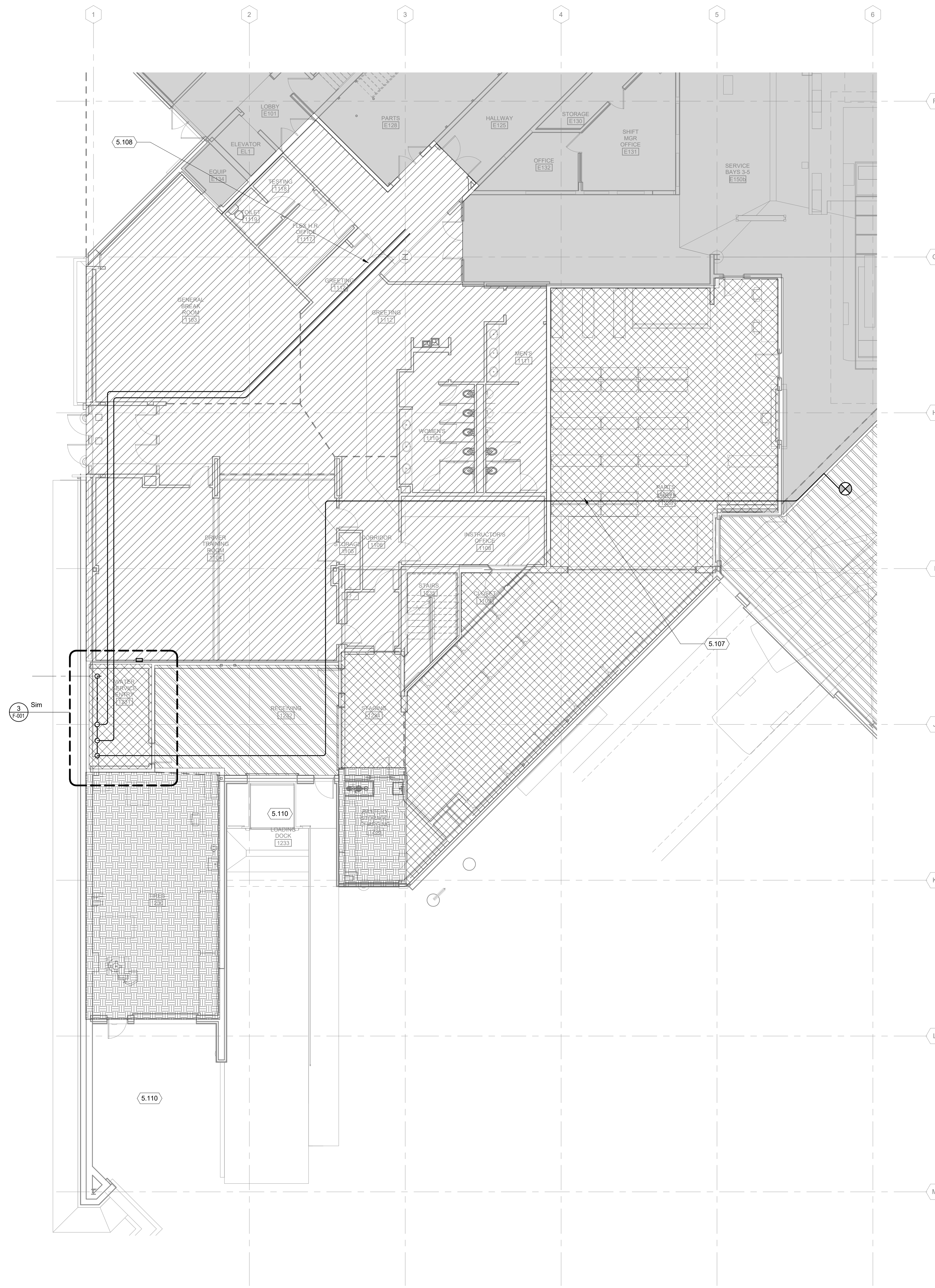
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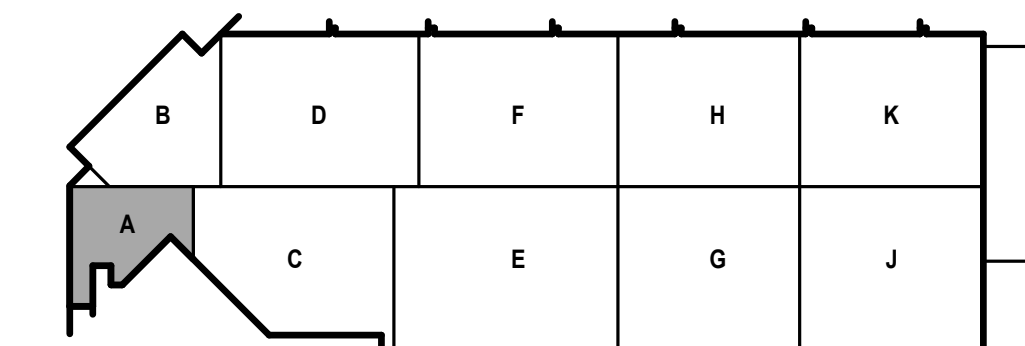
	LIGHT HAZARD
	ORDINARY HAZARD GROUP 1
	ORDINARY HAZARD GROUP 2
	EXTRA HAZARD GROUP 1
	NOT IN SCOPE

**KEYED NOTES**

- 5.107 CONNECT NEW FEEDER MAIN TO EXISTING SPRINKLER SYSTEM 5 MAIN.
- 5.108 INSTALL FEED MAINS FOR FUTURE SPRINKLER SYSTEMS TO BE INSTALLED IN PHASE 3B.
- 5.110 SPRINKLER PROTECTION PERMITTED TO BE OMITTED FROM NONCOMBUSTIBLE EXTERIOR PROJECTION WITH NO STORAGE.



**1 FIRST FLOOR FIRE PROTECTION PLAN - AREA A**  
1/8" = 1'-0"

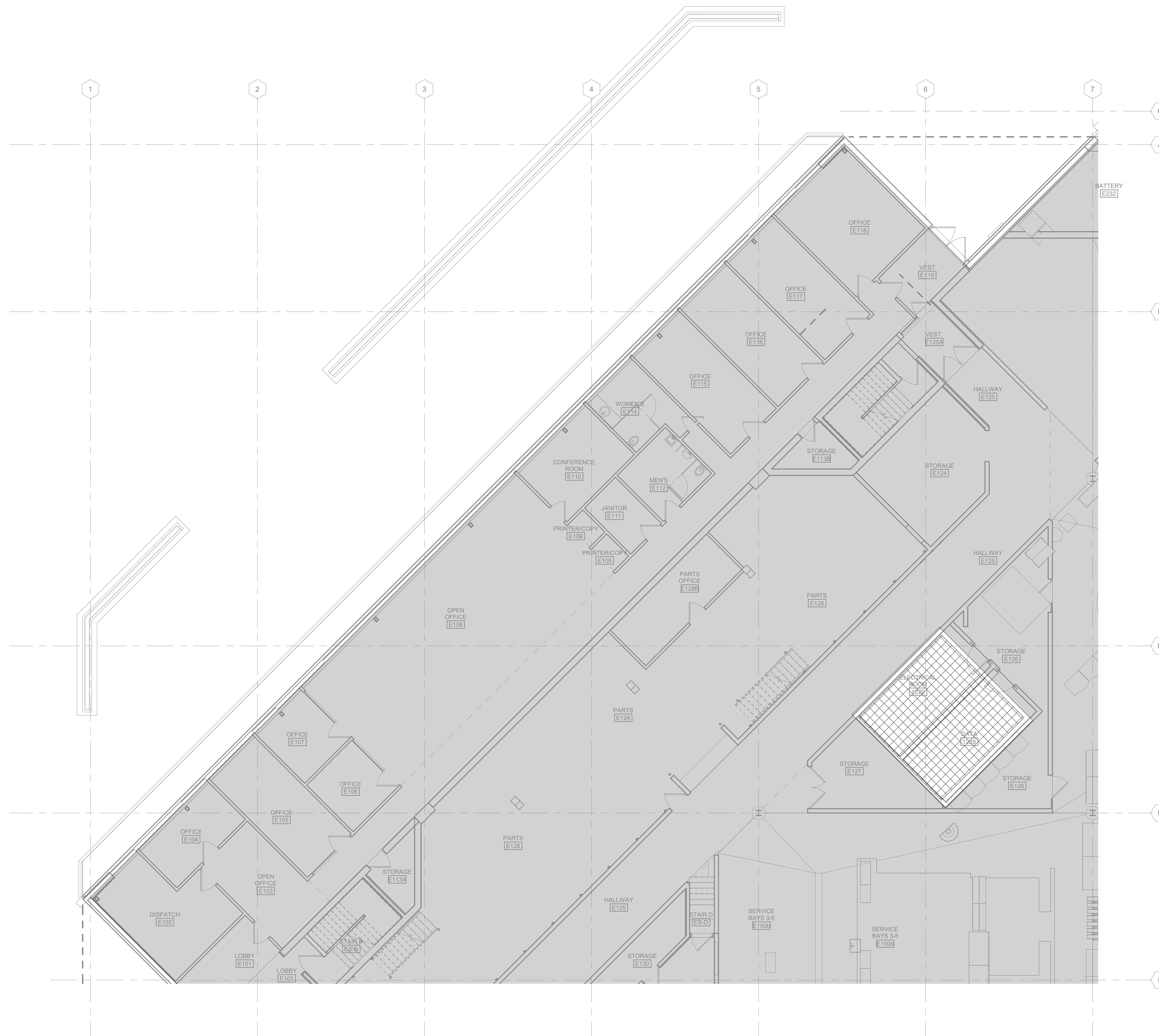


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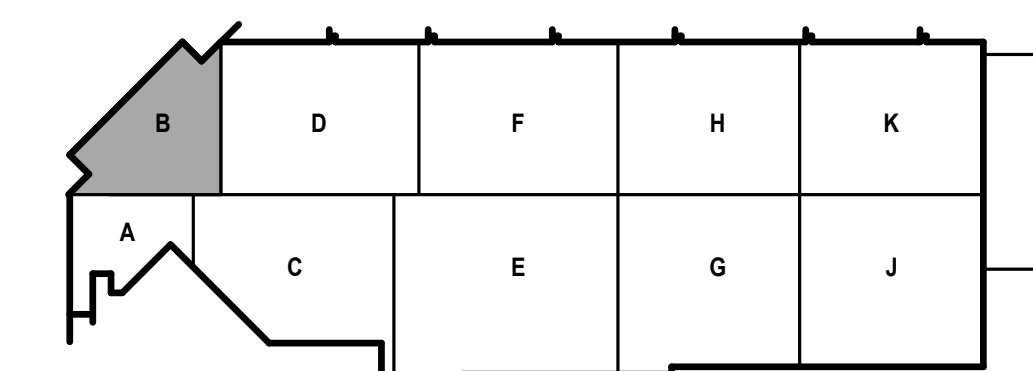
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	ORDINARY HAZARD GROUP 1
	ORDINARY HAZARD GROUP 2
	EXTRA HAZARD GROUP 1
	NOT IN SCOPE



**1** FIRST FLOOR FIRE PROTECTION PLAN - AREA B  
1/8" = 1'-0"



KEY PLAN





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FIRST FLOOR FIRE  
PROTECTION PLAN -  
AREA C

SHEET NO.:

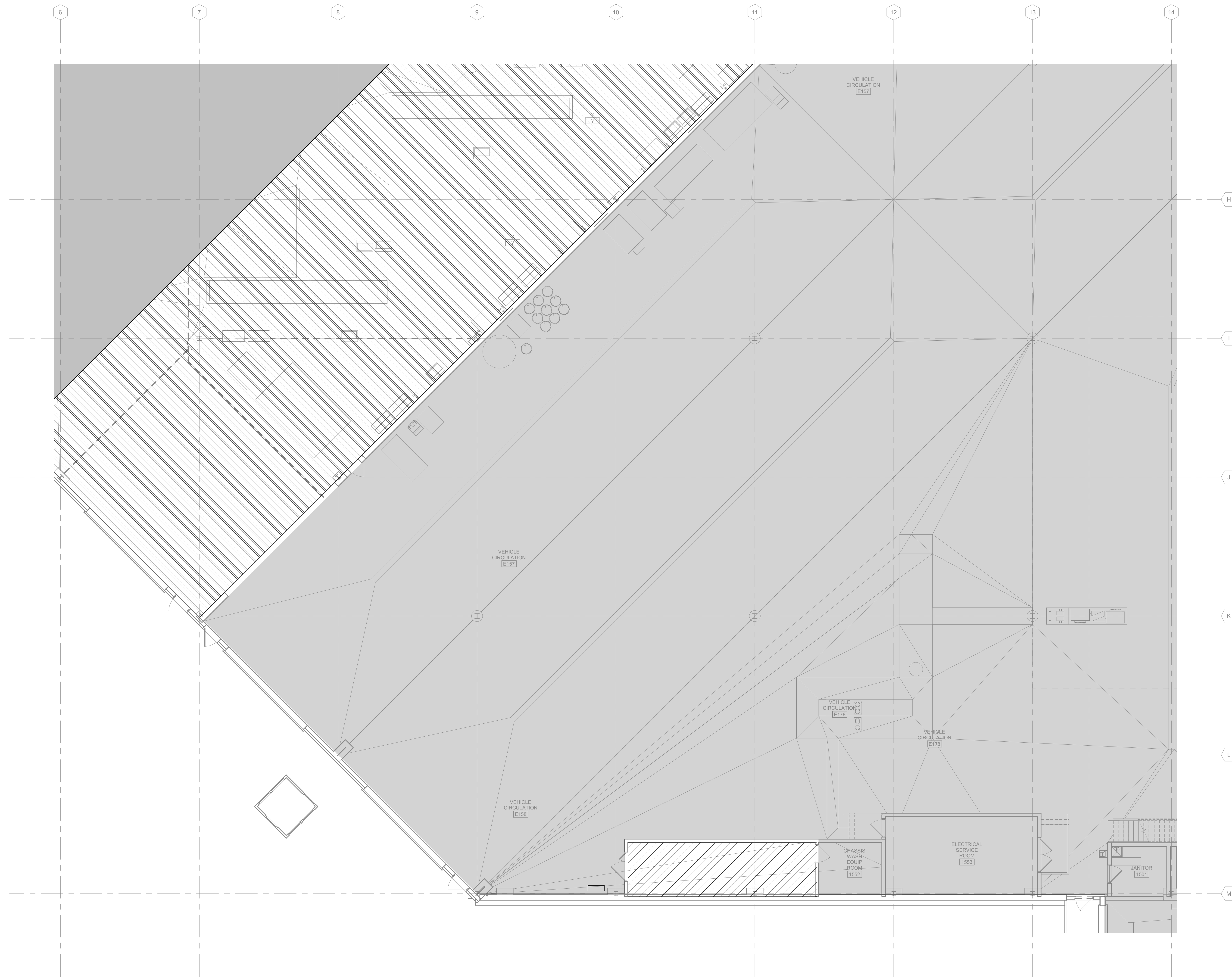
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**FIRE PROTECTION GENERAL NOTES**

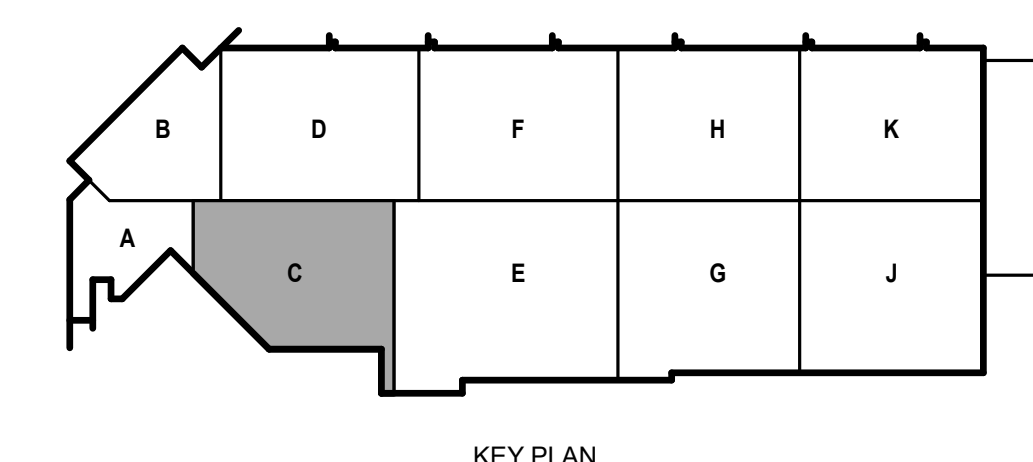
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**1** FIRST FLOOR FIRE PROTECTION PLAN - AREA C  
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SHEET CONTENTS  
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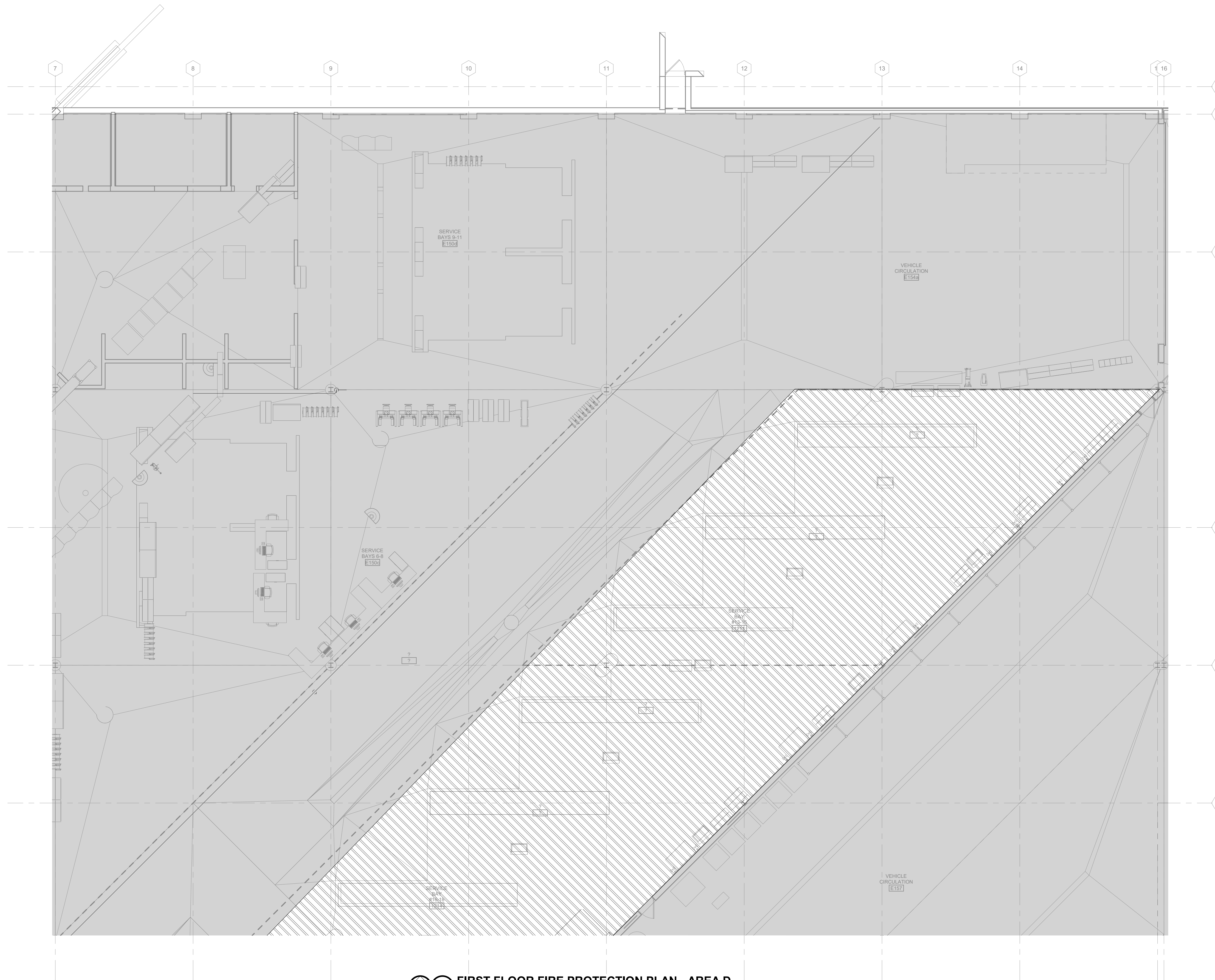
**F-101D**

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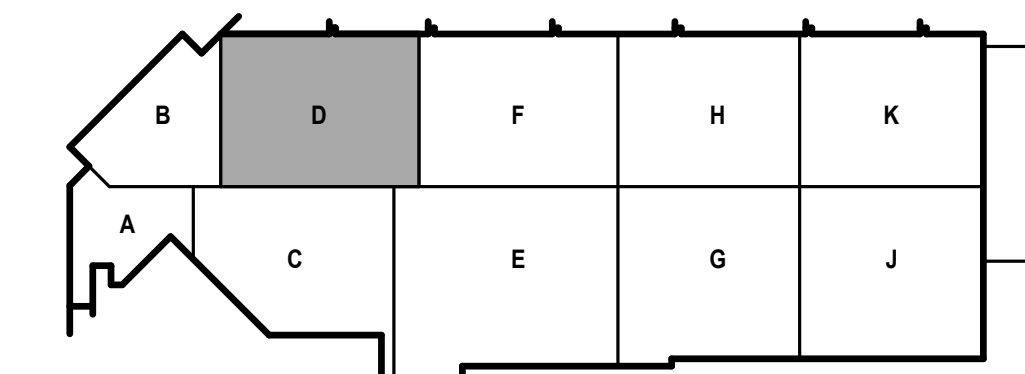
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- DO NOT SCALE DRAWINGS. USE GIVEN DIMENSIONS. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE PROJECT SITE PRIOR TO THE START OF CONSTRUCTION. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT COR BEFORE PROCEEDING WITH THE WORK.
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- VISIT THE BUILDING SITE & BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS AFFECTING WORK.
- NOMINAL FINISHED FLOOR ELEVATION = 100.0 FT. UNLESS OTHERWISE NOTED.
- GENERAL NOTES APPLY UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL FOLLOW SYSTEM IMPAIRMENT REQUIREMENTS PER NFPA.
- QUALIFIED CONTRACTORS SHALL INSTALL BOTH FIRE SUPPRESSION AND FIRE DETECTION AS AN ALL INCLUSIVE SYSTEM.
- REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
- REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
- REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

**FIRE PROTECTION GROUP PATTERN LEGEND:**

	LIGHT HAZARD
	ORDINARY HAZARD GROUP 1
	ORDINARY HAZARD GROUP 2
	EXTRA HAZARD GROUP 1
	NOT IN SCOPE



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





**FIRE PROTECTION GENERAL NOTES**

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**FIRST FLOOR - AREA F - ALTERNATE BID #1**

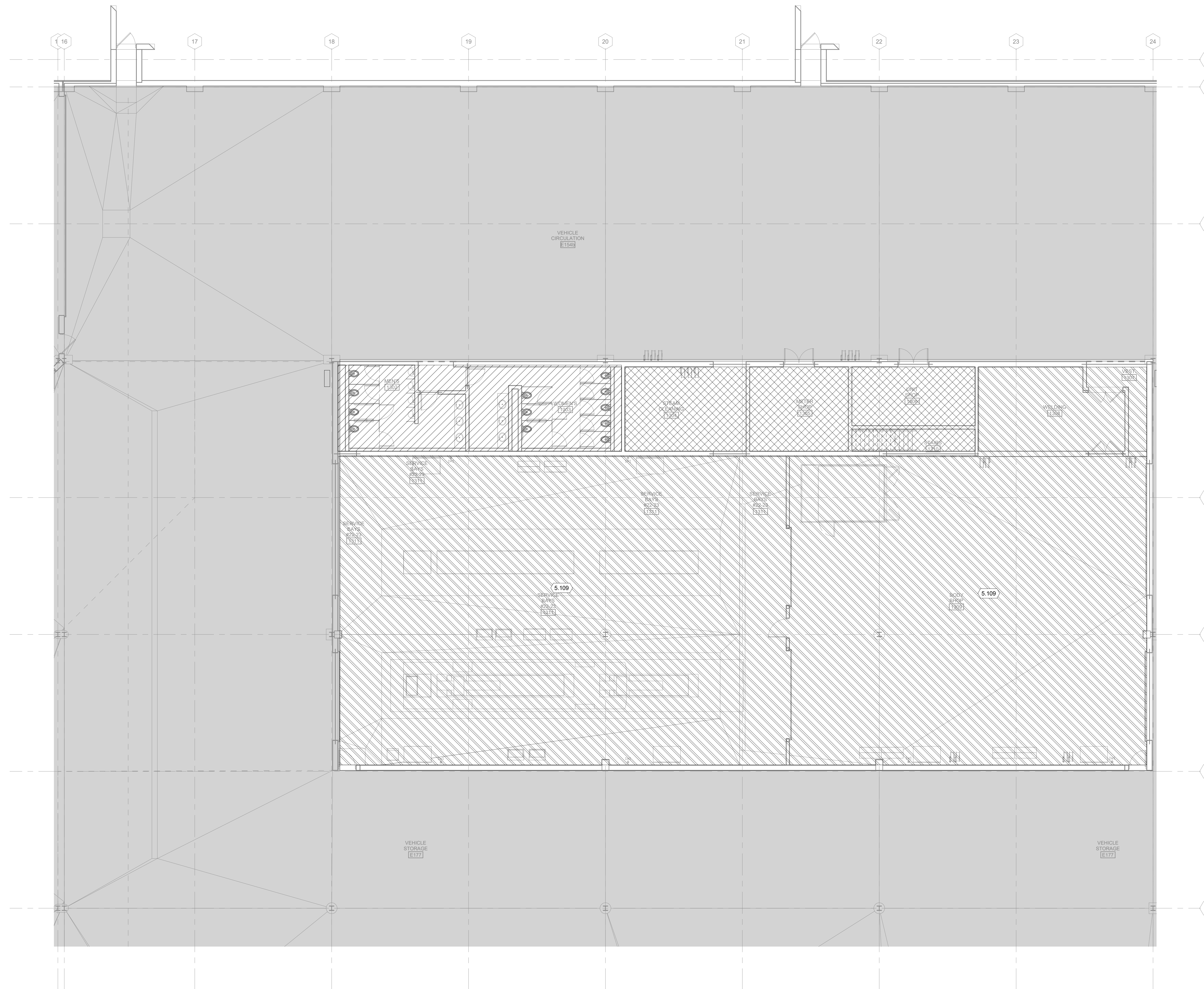
- SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

**FIRE PROTECTION GROUP PATTERN LEGEND:**

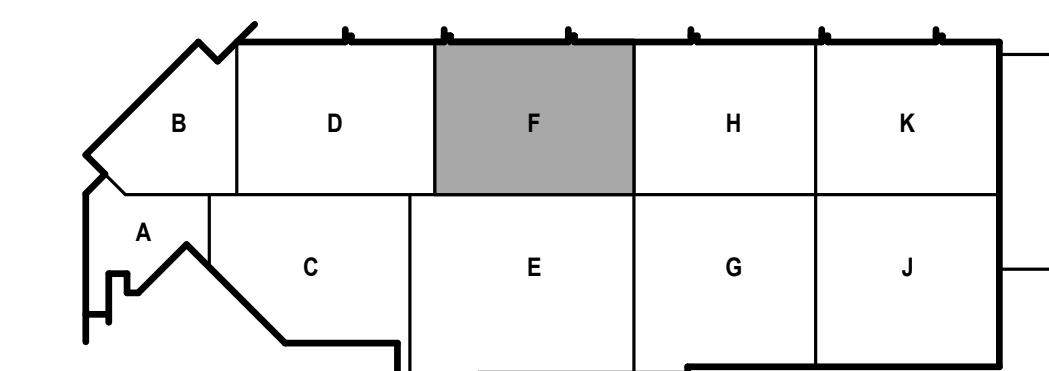
	LIGHT HAZARD
	ORDINARY HAZARD GROUP 1
	ORDINARY HAZARD GROUP 2
	EXTRA HAZARD GROUP 1
	NOT IN SCOPE

**KEYED NOTES**

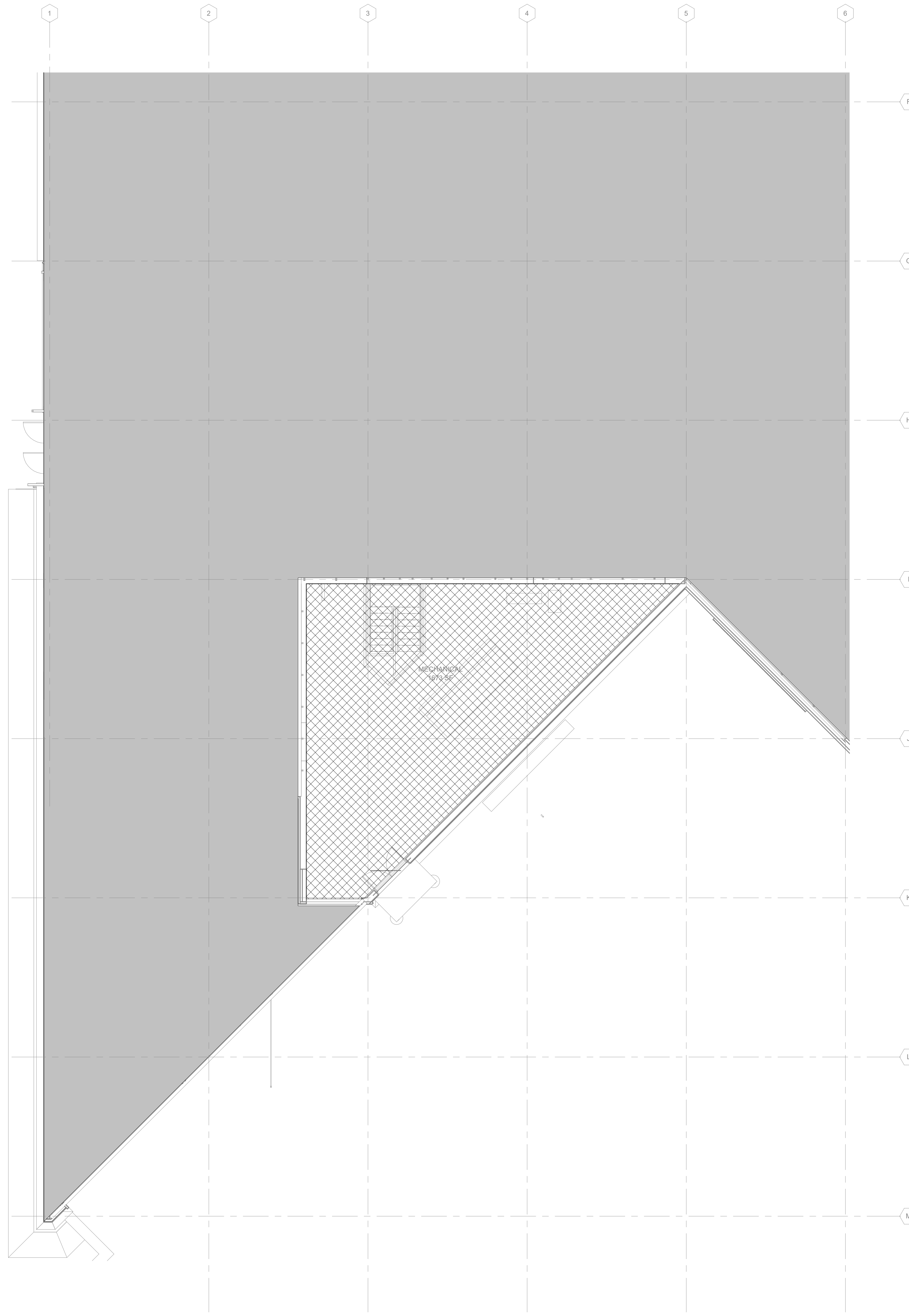
- 5.109 SERVICE BAY AREA PROTECTED FROM LEVEL ABOVE.



**1** FIRST FLOOR FIRE PROTECTION PLAN - AREA F  
1/8" = 1'-0"



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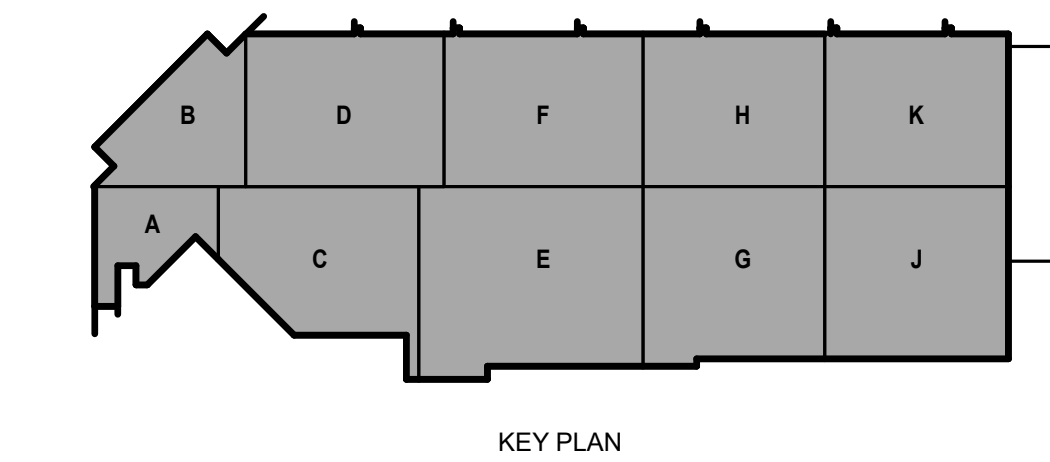
**1 SECOND FLOOR FIRE PROTECTION PLAN - AREA A**  
1/8" = 1'-0"

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**FIRE PROTECTION GROUP PATTERN LEGEND:**

	LIGHT HAZARD
	ORDINARY HAZARD GROUP 1
	ORDINARY HAZARD GROUP 2
	EXTRA HAZARD GROUP 1
	NOT IN SCOPE







**CITY OF MADISON  
METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS**  
1101 EAST WASHINGTON AVE.  
MADISON, WI 53703

ISSUED  
04/08/21 BID SET

CONTRACT NO.: 891  
M&H NO.: 4503500-190896.03  
DATE: April 8, 2021  
DESIGNED BY: DG  
DRAWN BY: DG  
CHECKED BY: RMM

DO NOT SCALE DRAWINGS  
SHEET CONTENTS  
SECOND FLOOR  
FIRE PROTECTION  
PLAN - AREA F

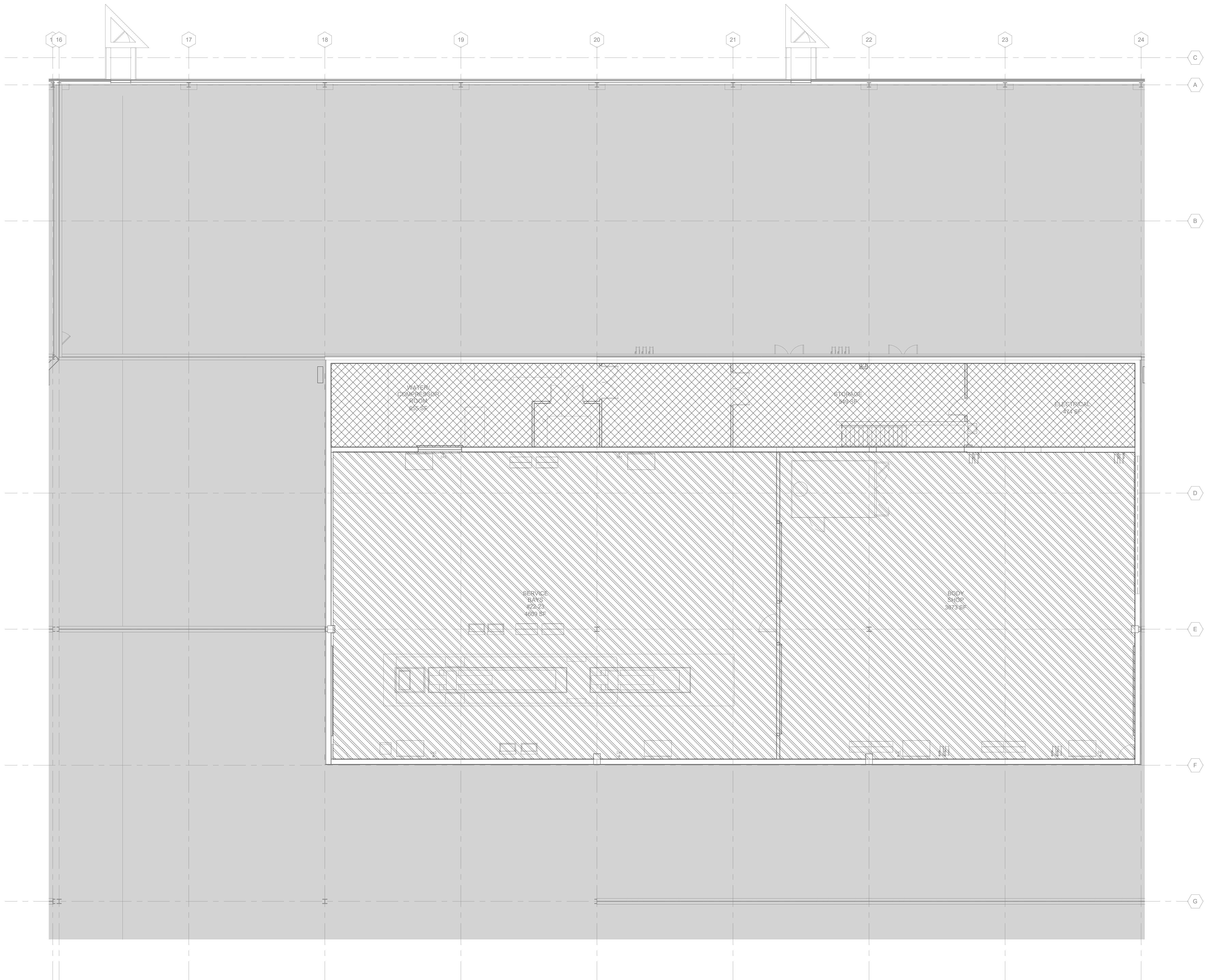
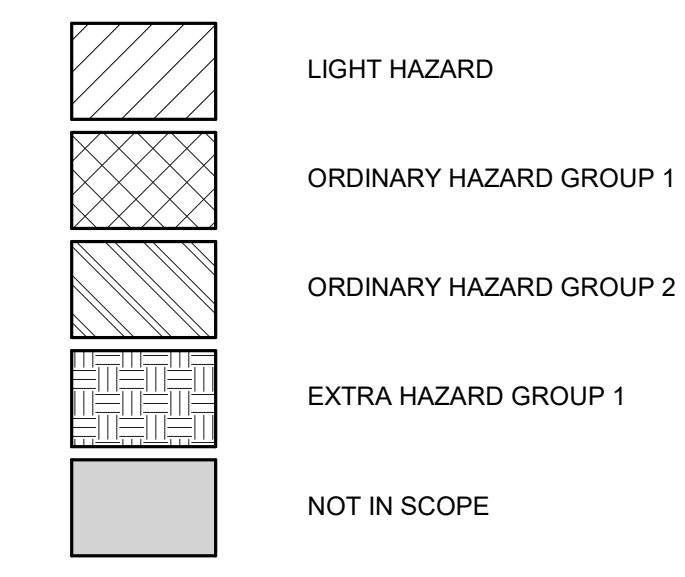
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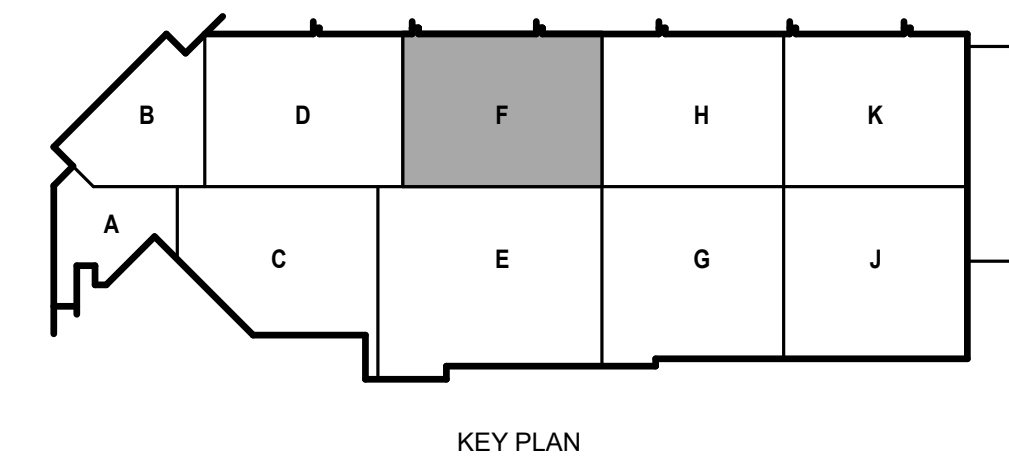
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**FIRE PROTECTION GROUP PATTERN LEGEND:**

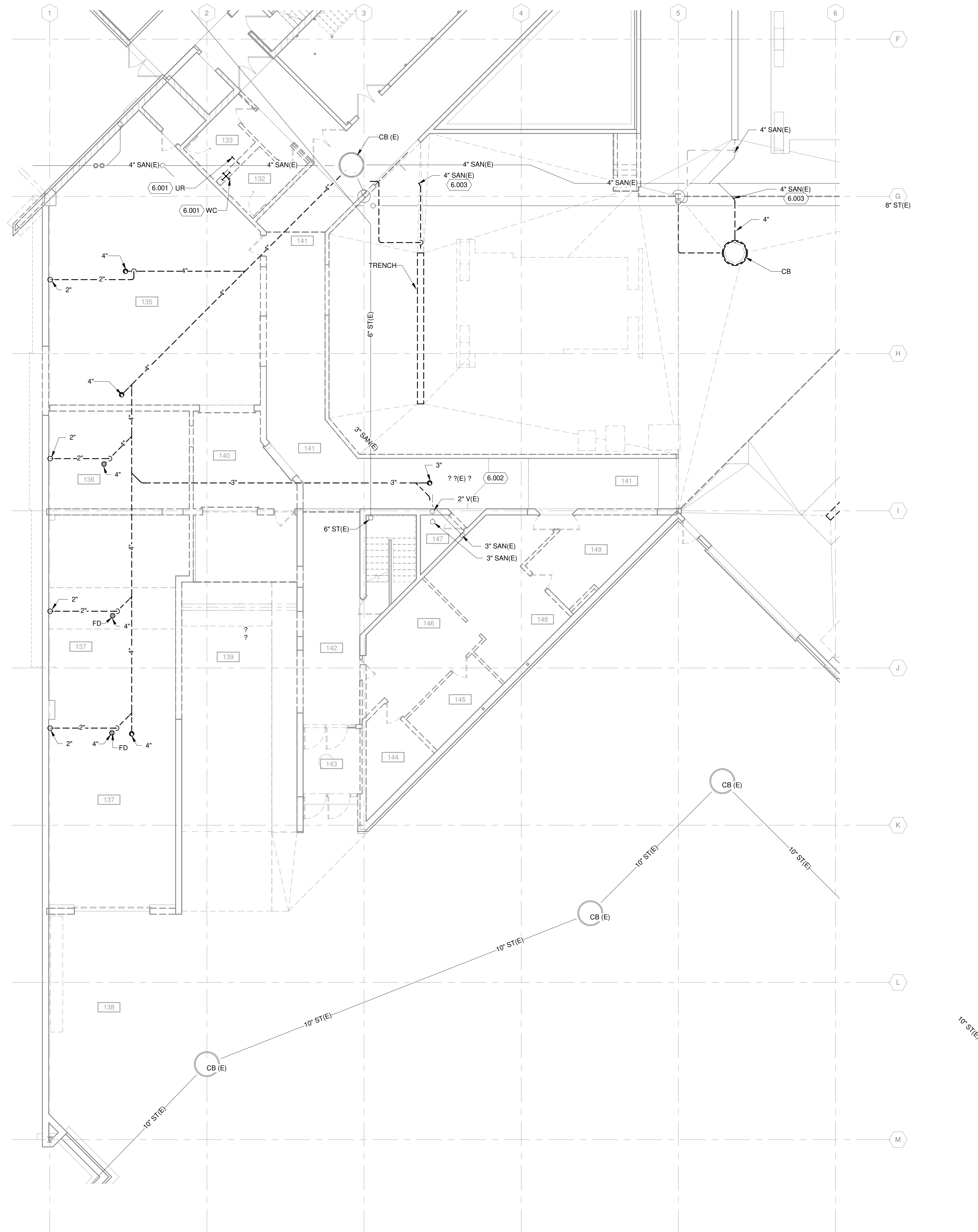


**1 SECOND FLOOR FIRE PROTECTION PLAN - AREA F**  
1/8" = 1'-0"





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TRUE PLAN  
NORTH NORTH  
**1** UNDERGROUND DRAIN AND VENT DEMOLITION PLAN - AREA A  
1/8" = 1'-0"

**GENERAL NOTES**

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

**KEYED NOTES**

- 6.001 DEMOLISH ALL BATHROOM FIXTURES, PIPES AND VALVES.
- 6.002 TO BE RE-CONNECTED IN NEW WORK.
- 6.003 CAP UNDERGROUND CLOSE TO MAIN SANITARY LINE.
- 6.005 ENSURE PROTECTION OF EXISTING STORM PIPE, EXISTING TO REMAIN DURING DEMOLITION.
- 6.007 DEMOLISH EXISTING INCOMING COMBINED FIRE/DOMESTIC WATER BACK TO EXTERIOR OF THE BUILDING. REFERENCE CIVIL UTILITIES FOR ADDITIONAL DEMOLITION.

**Mead & Hunt**

Mead & Hunt, Inc.  
2440 Deming Way  
Middleton, WI 53562  
phone: 608-273-6380  
meadhunt.com

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metro transit

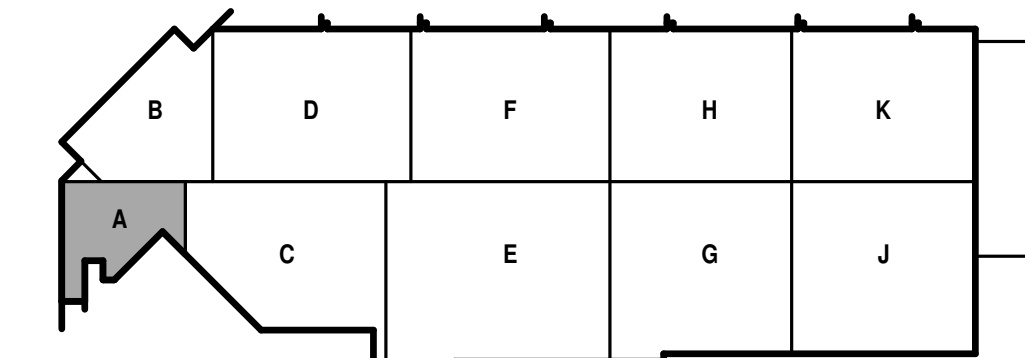
**CITY OF MADISON  
METRO TRANSIT PHASE 3A - MAINTENANCE AND  
DRIVER FACILITY IMPROVEMENTS**  
1101 EAST WASHINGTON AVE.  
MADISON, WI 53703

ISSUED  
04/08/21 BID SET

CONTRACT NO.: 899  
RFP NO.: 4503500-190896.03  
DATE: April 8, 2021  
DESIGNED BY: JET  
DRAWN BY: JET  
CHECKED BY: RMM  
DO NOT SCALE DRAWINGS

SHEET CONTENTS  
UNDERGROUND  
DRAIN AND VENT  
DEMOLITION PLAN -  
AREA A

SHEET NO.:



KEY PLAN

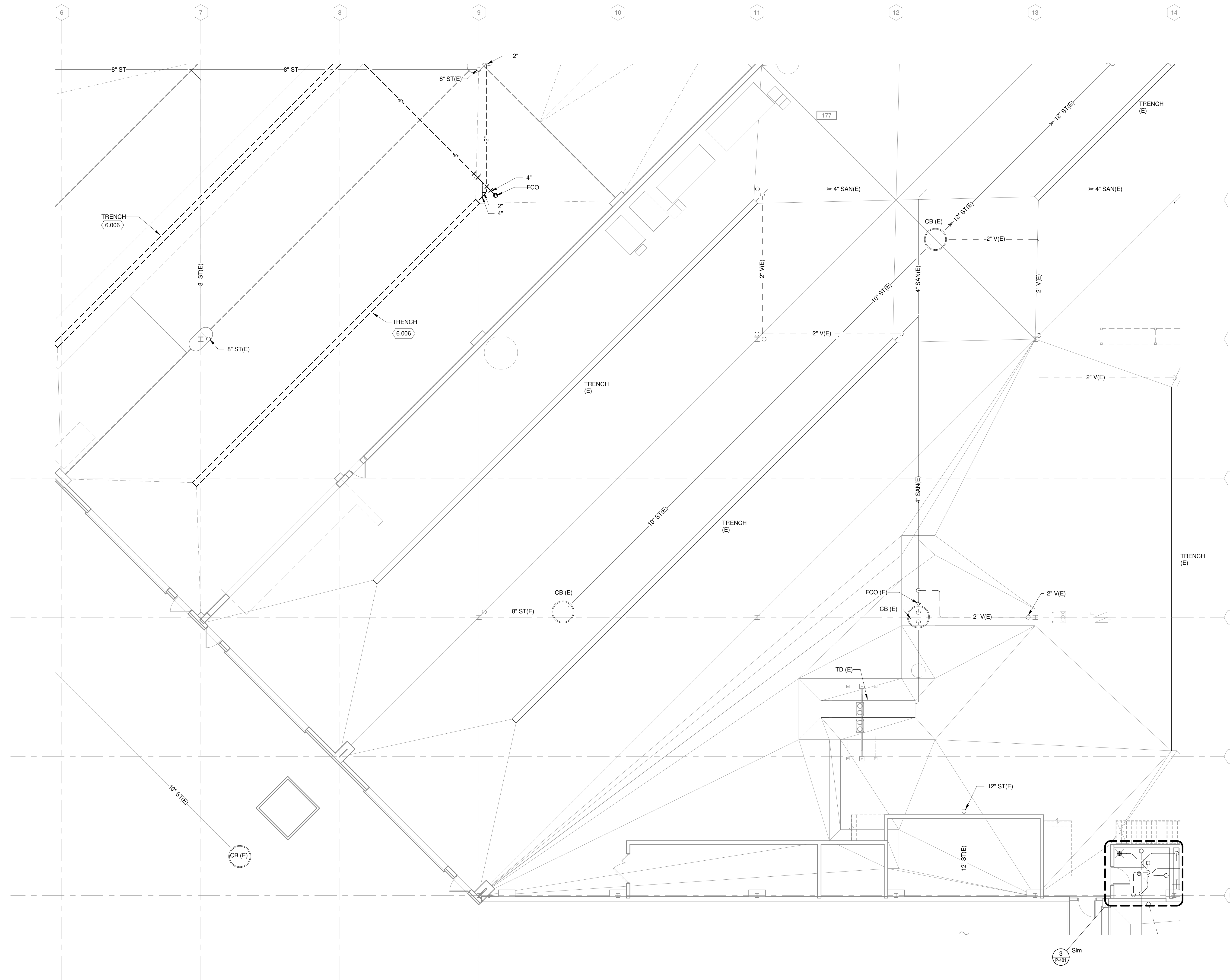
**PD100A**

**GENERAL NOTES**

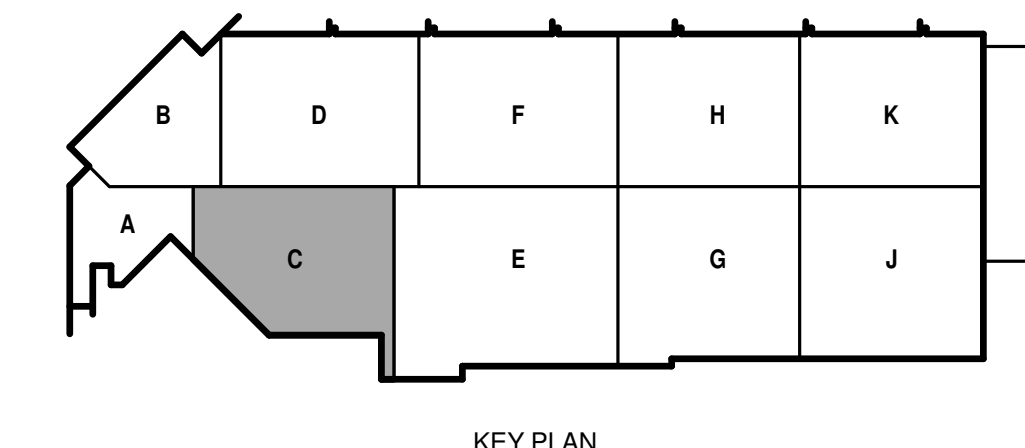
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3. REFERENCE O-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

**KEYED NOTES**

- 6.006 DEMOLISH VENT PIPE FROM DEMOLISHED TRENCH DRAIN. CATCH BASIN VENT PIPING TO REMAIN.



TRUE PLAN  
NORTH NORTH  
**1**  
1/8" = 1'-0"  
**UNDERGROUND DRAIN AND VENT DEMOLITION PLAN - AREA C**



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SHEET CONTENTS  
UNDERGROUND DRAIN AND VENT DEMOLITION PLAN - AREA C

SHEET NO.:

**PD100C**

**GENERAL NOTES**

- REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
- REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
- REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

**KEYED NOTES**

- 6.004 PREPARE EXISTING PIPE FOR NEW PIPE CONNECTION IN NEW WORK.
- 6.005 ENSURE PROTECTION OF EXISTING STORM PIPE, EXISTING TO REMAIN DURING DEMOLITION.
- 6.008 DEMOLISH EXISTING TRENCH DRAIN AND ALL ASSOCIATED SANITARY AND VENT PIPING.
- 6.010 DEMOLISH EXISTING CATCH BASIN.

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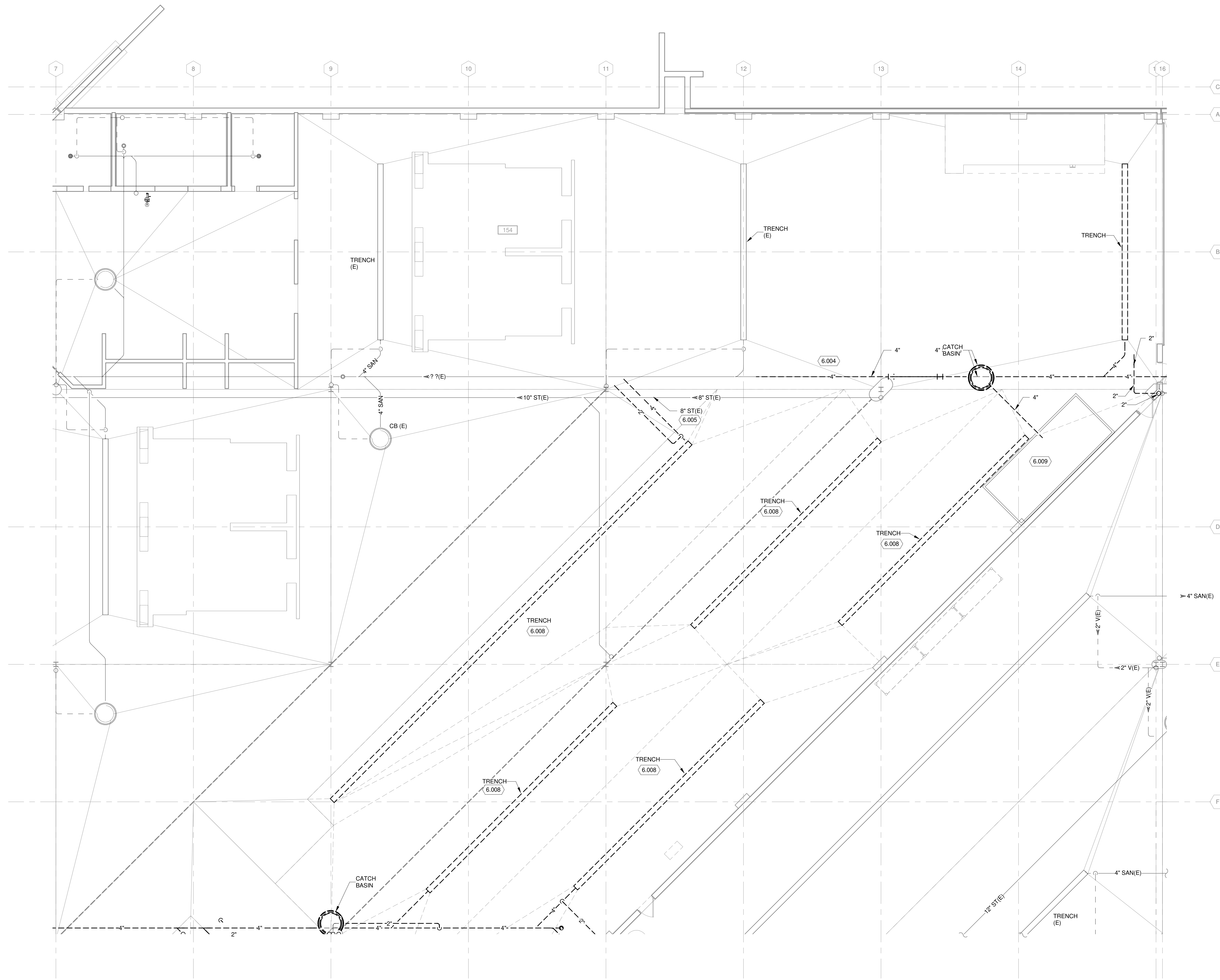
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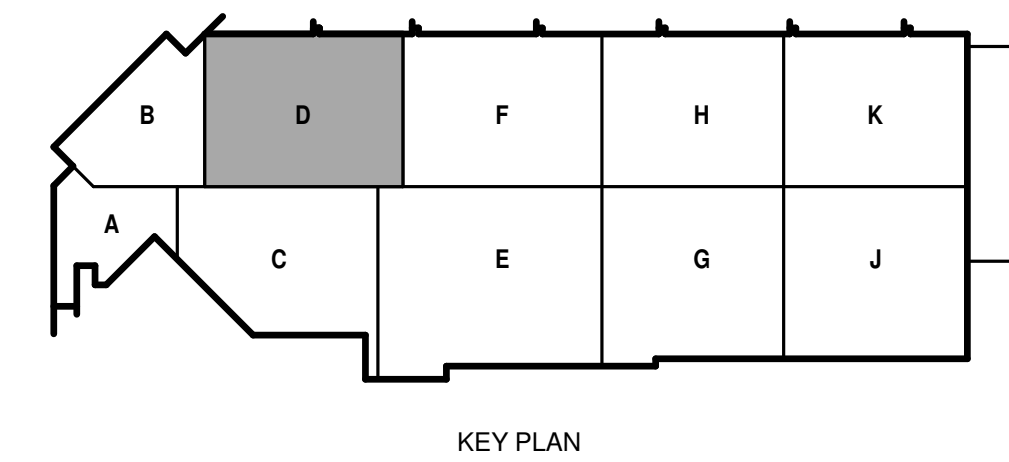
SHEET CONTENTS  
UNDERGROUND  
DRAIN AND VENT  
DEMOLITION PLAN -  
AREA D

SHEET NO.:

**PD100D**



TRUE PLAN  
NORTH NORTH  
**1 UNDERGROUND DRAIN AND VENT DEMOLITION PLAN - AREA D**  
1/8" = 1'-0"



**GENERAL NOTES**

- REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
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**FIRST FLOOR - AREA F - ALTERNATE BID #1**

- SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK

**KEYED NOTES**

- 6.003 CAP UNDERGROUND CLOSE TO MAIN SANITARY LINE.

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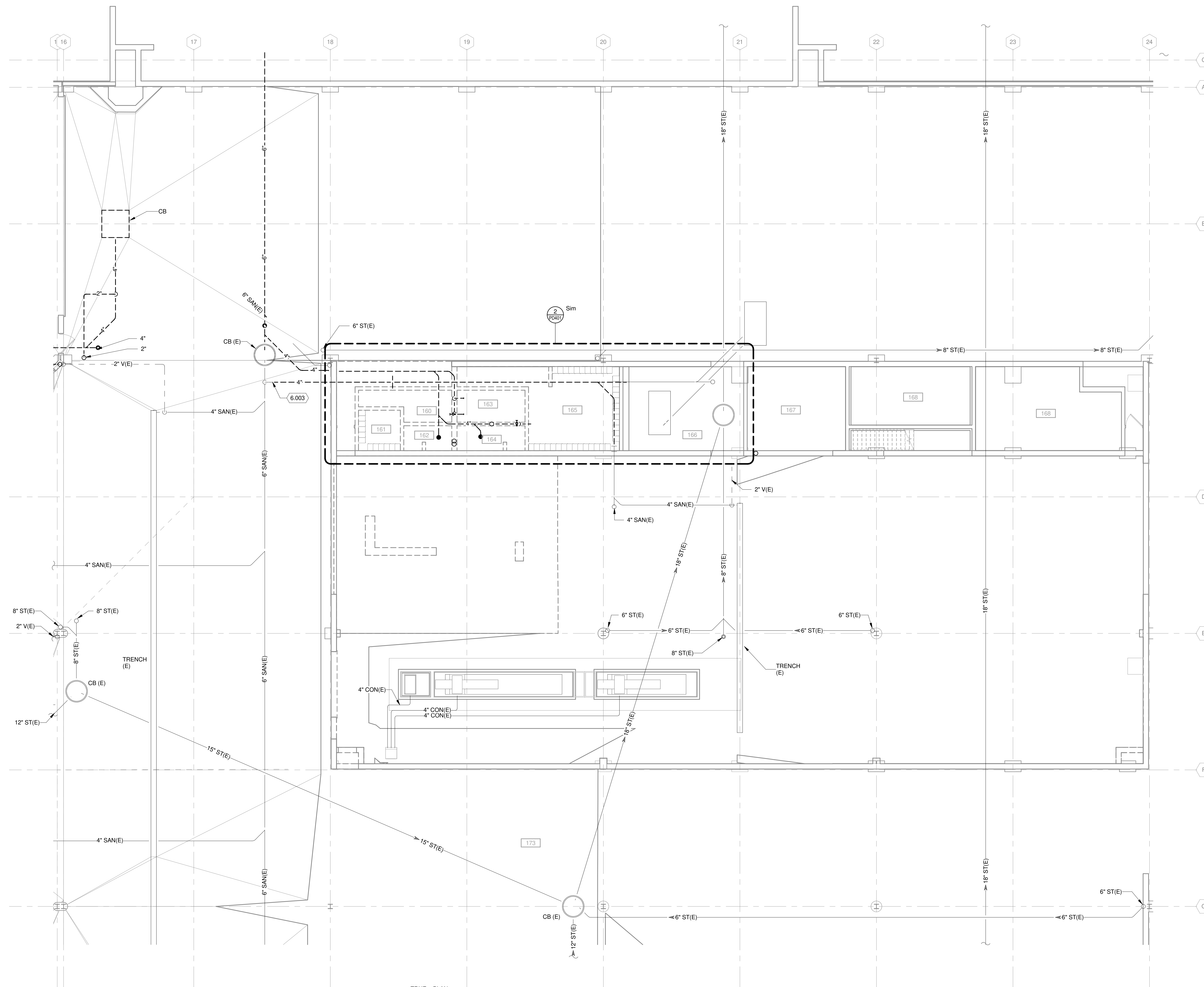
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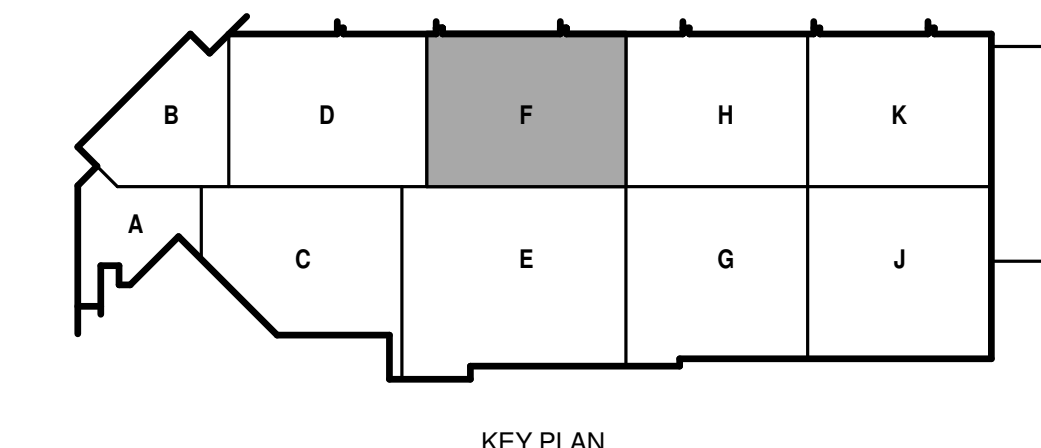
SHEET CONTENTS  
UNDERGROUND  
DRAIN AND VENT  
DEMOLITION PLAN -  
AREA F

SHEET NO.:

**PD100F**

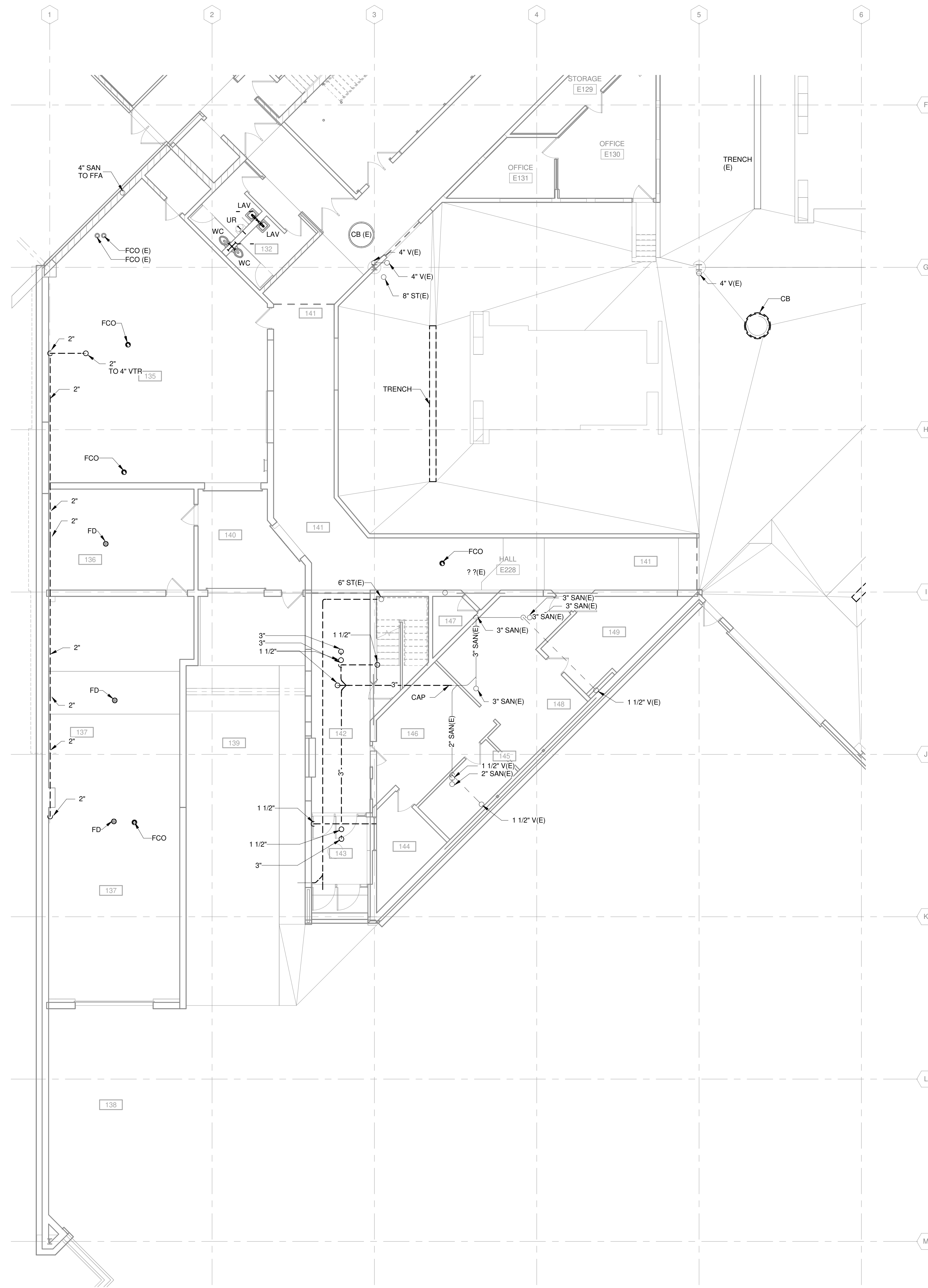


TRUE PLAN  
NORTH/NORTH  
**1 UNDERGROUND DRAIN AND VENT DEMOLITION PLAN - AREA F**  
1/8" = 1'-0"



KEY PLAN

4/1/2021 5:17:03 PM C:\Revel\_Local\190896.03\FR20\_Amo\_pn\_lace@meadhunt.com.rvt



TRUE PLAN  
NORTH NORTH  
**1** FIRST FLOOR DRAIN AND VENT DEMOLITION PLAN - AREA B  
1/8" = 1'-0"

**GENERAL NOTES**

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

**KEYED NOTES**

- 6.008 DEMOLISH EXISTING TRENCH DRAIN AND ALL ASSOCIATED SANITARY AND VENT PIPING.

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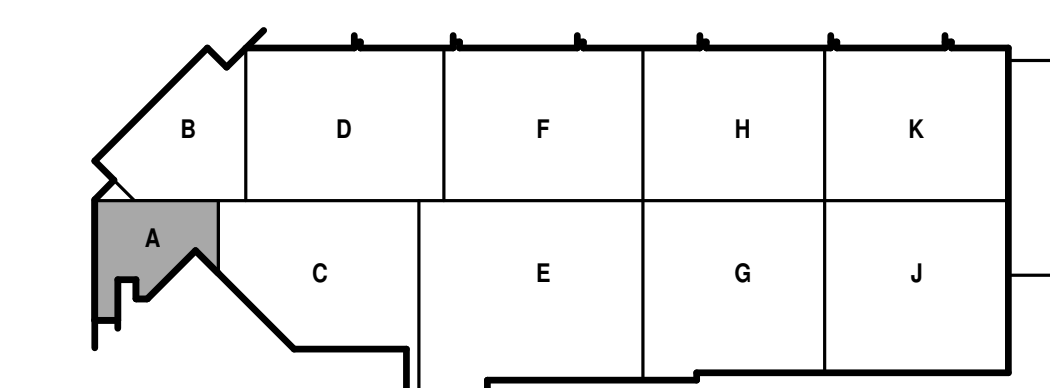
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DRAWN BY: JET  
CHECKED BY: RMM  
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SHEET CONTENTS  
FIRST FLOOR DRAIN AND VENT DEMOLITION PLAN - AREA A

SHEET NO.:

**PD101A**



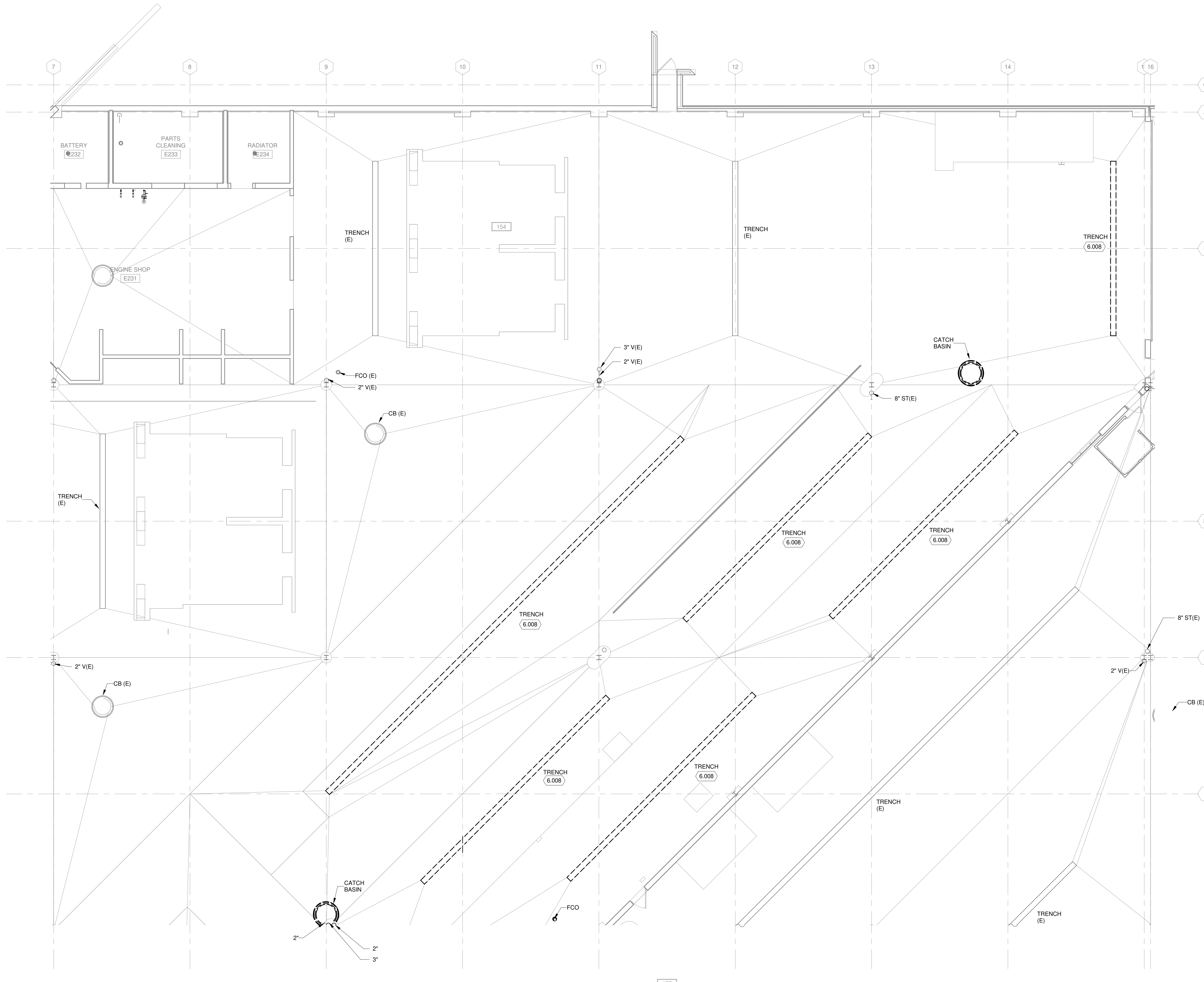
KEY PLAN

**GENERAL NOTES**

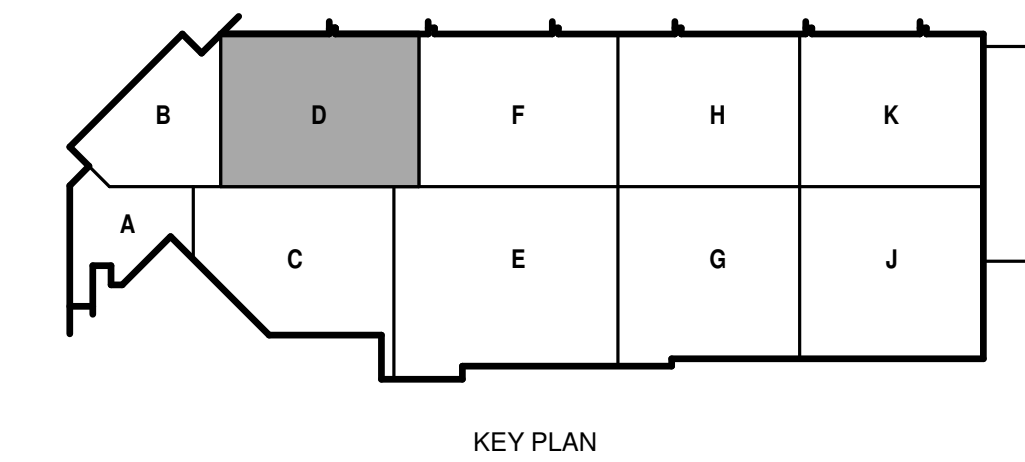
1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

**KEYED NOTES**

- 6.008 DEMOLISH EXISTING TRENCH DRAIN AND ALL ASSOCIATED SANITARY AND VENT PIPING.



TRUE PLAN NORTH NORTH  
**1** FIRST FLOOR DRAIN AND VENT DEMOLITION PLAN - AREA B  
1/8" = 1'-0"



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SHEET CONTENTS  
FIRST FLOOR DRAIN AND VENT DEMOLITION PLAN - AREA B

SHEET NO.:

**PD101D**



**GENERAL NOTES**

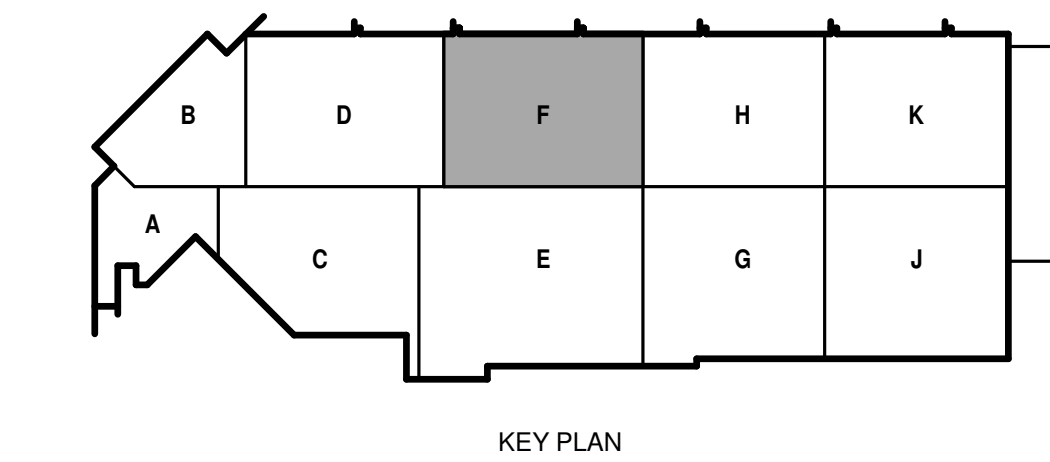
1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

**FIRST FLOOR - AREA F - ALTERNATE BID #1**

1. SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM, LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK



TRUE PLAN  
NORTH NORTH  
**1**  
FIRST FLOOR DRAIN AND VENT DEMOLITION PLAN - AREA F  
1/8" = 1'-0"



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SHEET CONTENTS  
FIRST FLOOR DRAIN AND VENT DEMOLITION PLAN - AREA F

SHEET NO.:

**PD101F**

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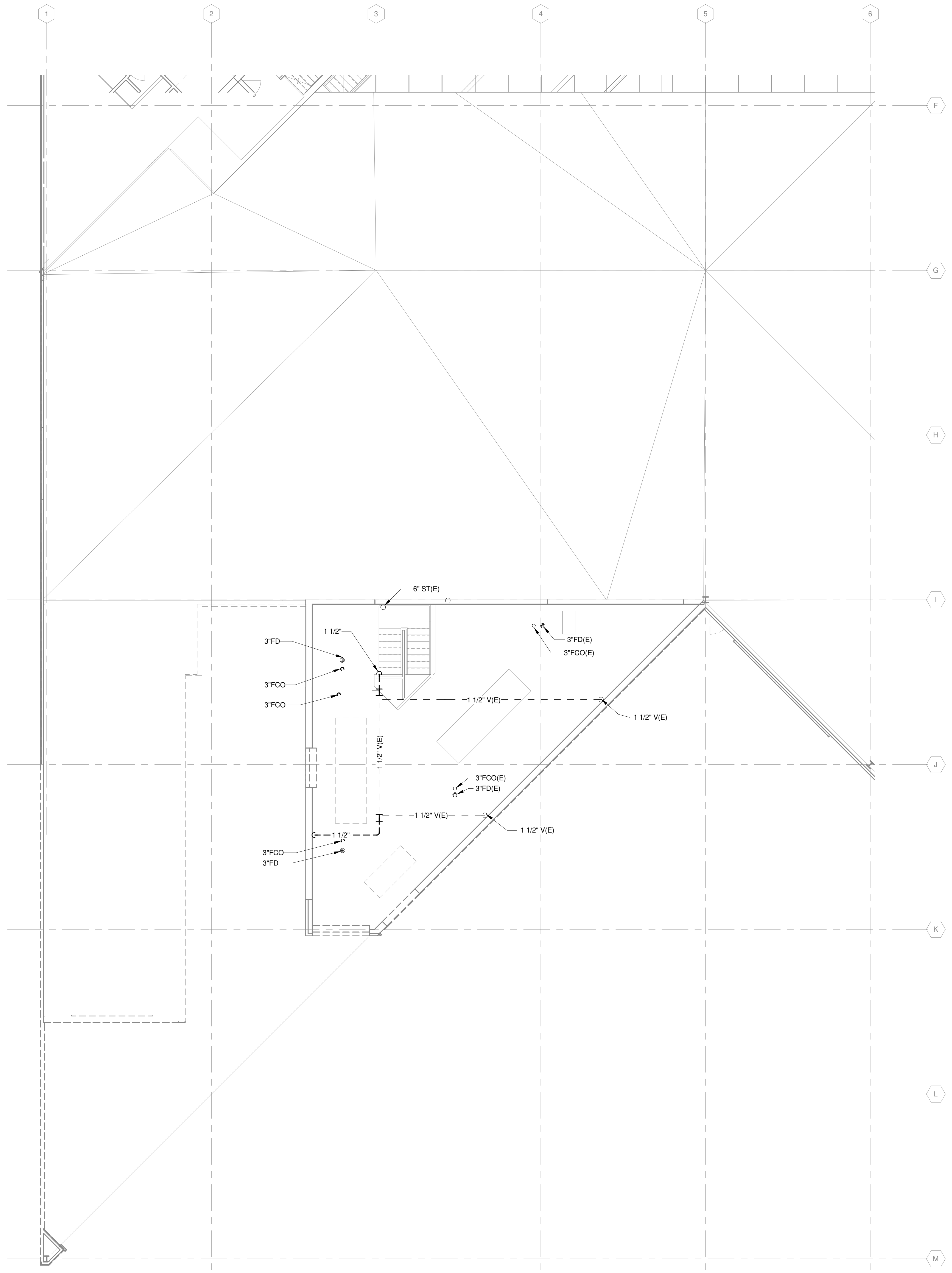
SHEET CONTENTS  
SECOND FLOOR  
DRAIN, WASTE AND  
VENT PLAN - AREA A

SHEET NO.:

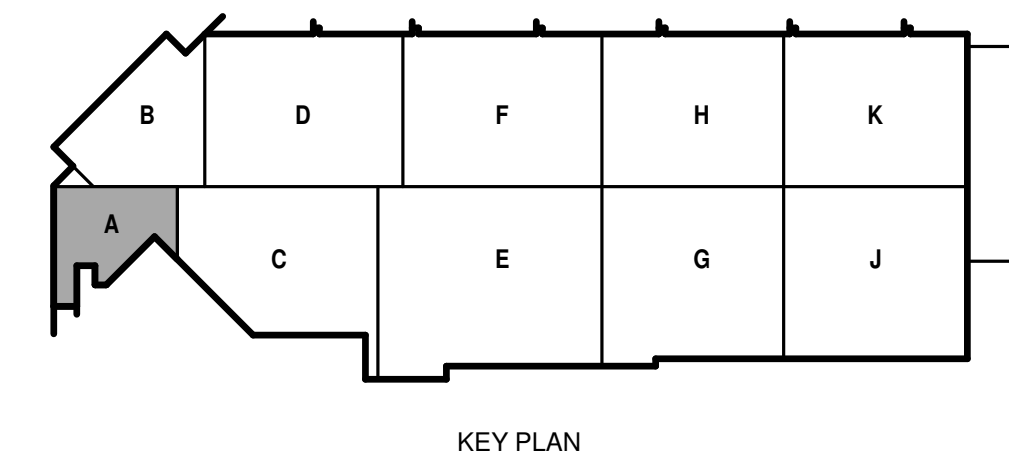
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**GENERAL NOTES**

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.



TRUE PLAN  
NORTH NORTH  
**1 SECOND FLOOR DRAIN AND VENT DEMOLITION PLAN - AREA A**  
1/8" = 1'-0"

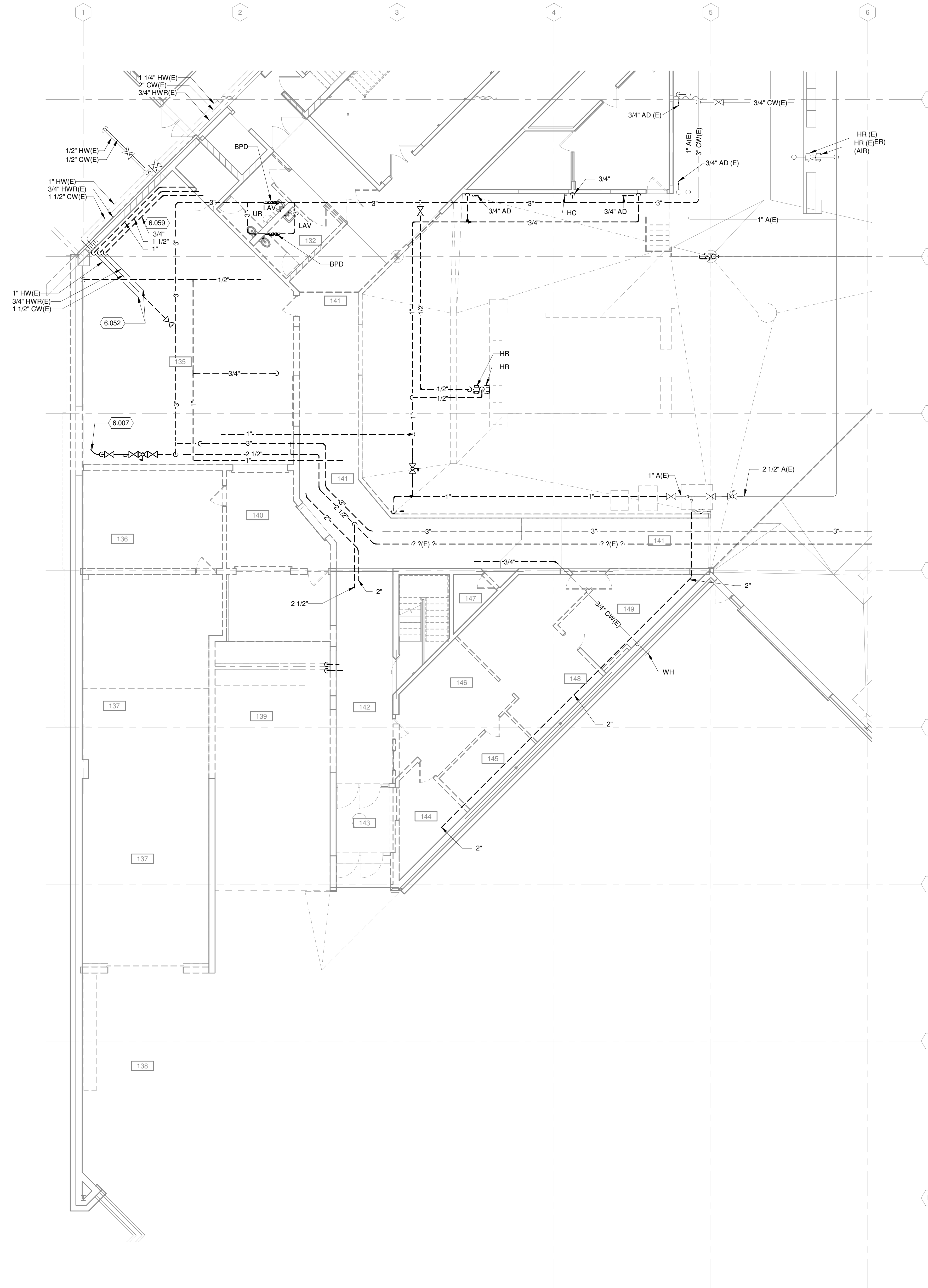


**GENERAL NOTES**

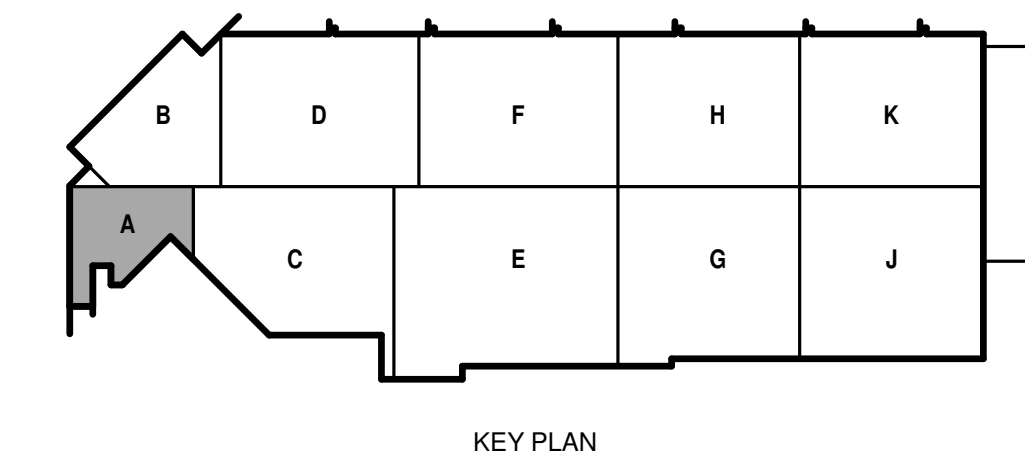
1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE O-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

**KEYED NOTES**

- 6.007 DEMOLISH EXISTING INCOMING COMBINED FIRE/DOMESTIC WATER BACK TO EXTERIOR OF THE BUILDING. REFERENCE CIVIL UTILITIES FOR ADDITIONAL DEMOLITION.
- 6.052 PREPARE EXISTING TO REMAIN PIPING FOR NEW WORK RE-CONNECTIONS.
- 6.059 DEMOLISH WATER PIPES BACK TO MAIN. CAP PIPE AT MAIN.



TRUE PLAN  
NORTH NORTH  
**1** FIRST FLOOR SUPPLY PIPING DEMOLITION PLAN - AREA B  
1/8" = 1'-0"



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SHEET CONTENTS  
FIRST FLOOR  
SUPPLY DEMOLITION  
PLAN - AREA A

SHEET NO.:

**PD131A**

**GENERAL NOTES**

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND GLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

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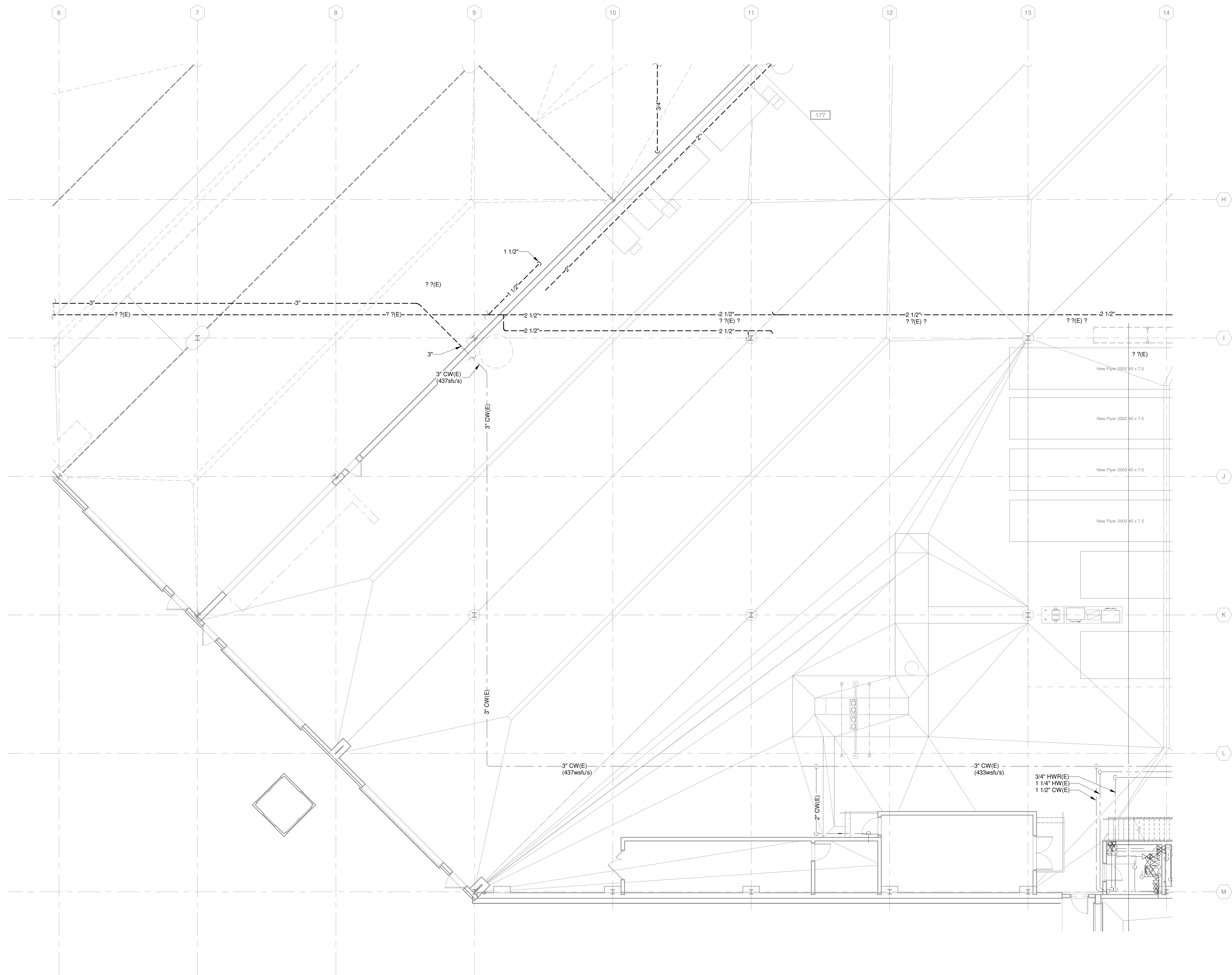
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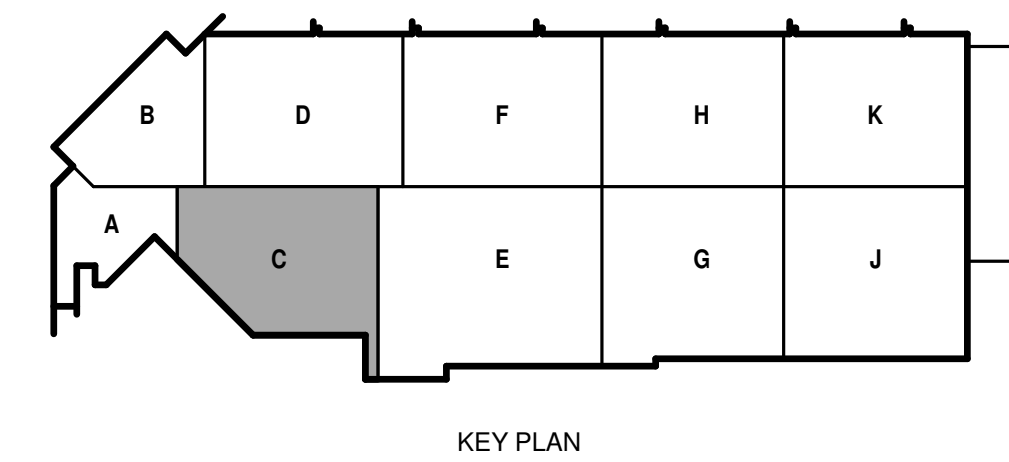
SHEET CONTENTS  
FIRST FLOOR  
SUPPLY DEMOLITION  
PLAN - AREA C

SHEET NO.:

**PD131C**



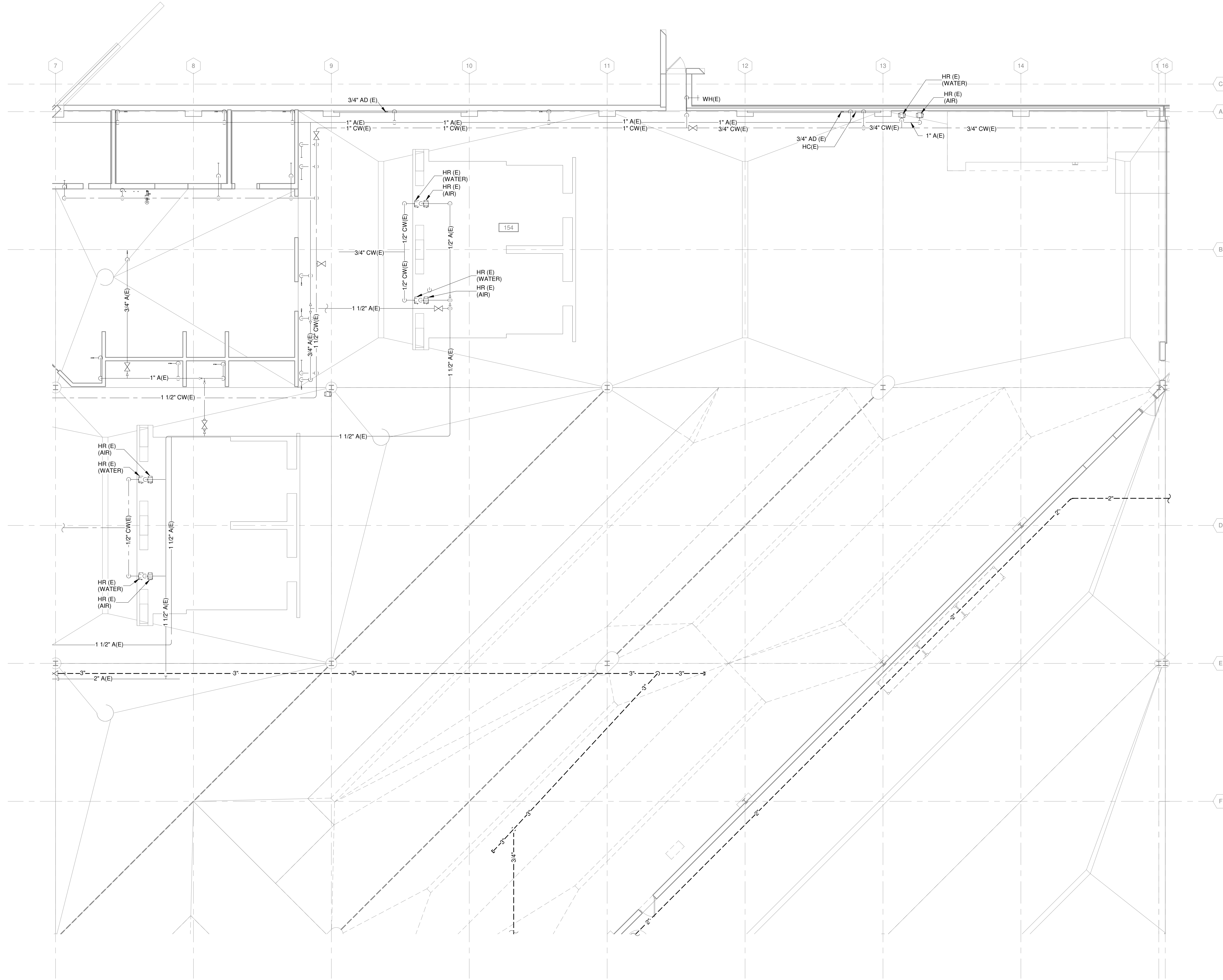
TRUE PLAN  
NORTH NORTH  
**1**  
FIRST FLOOR SUPPLY PIPING DEMOLITION PLAN - AREA C  
1/8" = 1'-0"



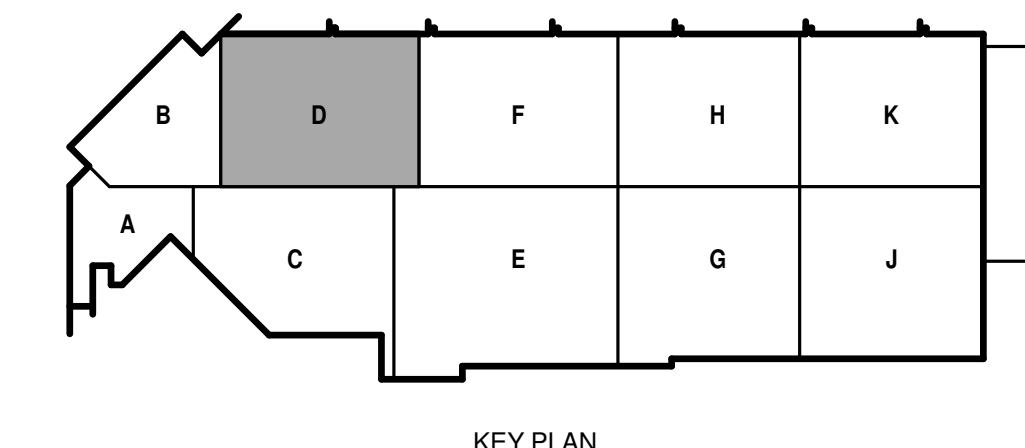
KEY PLAN

**GENERAL NOTES**

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR FINISHS, AND GLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.



TRUE PLAN NORTH NORTH  
 **1** **FIRST FLOOR SUPPLY PIPING DEMOLITION PLAN - AREA D**  
 1/8" = 1'-0"



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SHEET CONTENTS  
 FIRST FLOOR SUPPLY PIPING DEMOLITION PLAN - AREA D

SHEET NO.:



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SHEET CONTENTS  
FIRST FLOOR  
SUPPLY DEMOLITION  
PLAN - AREA F

SHEET NO.:

**PD131F**

**GENERAL NOTES**

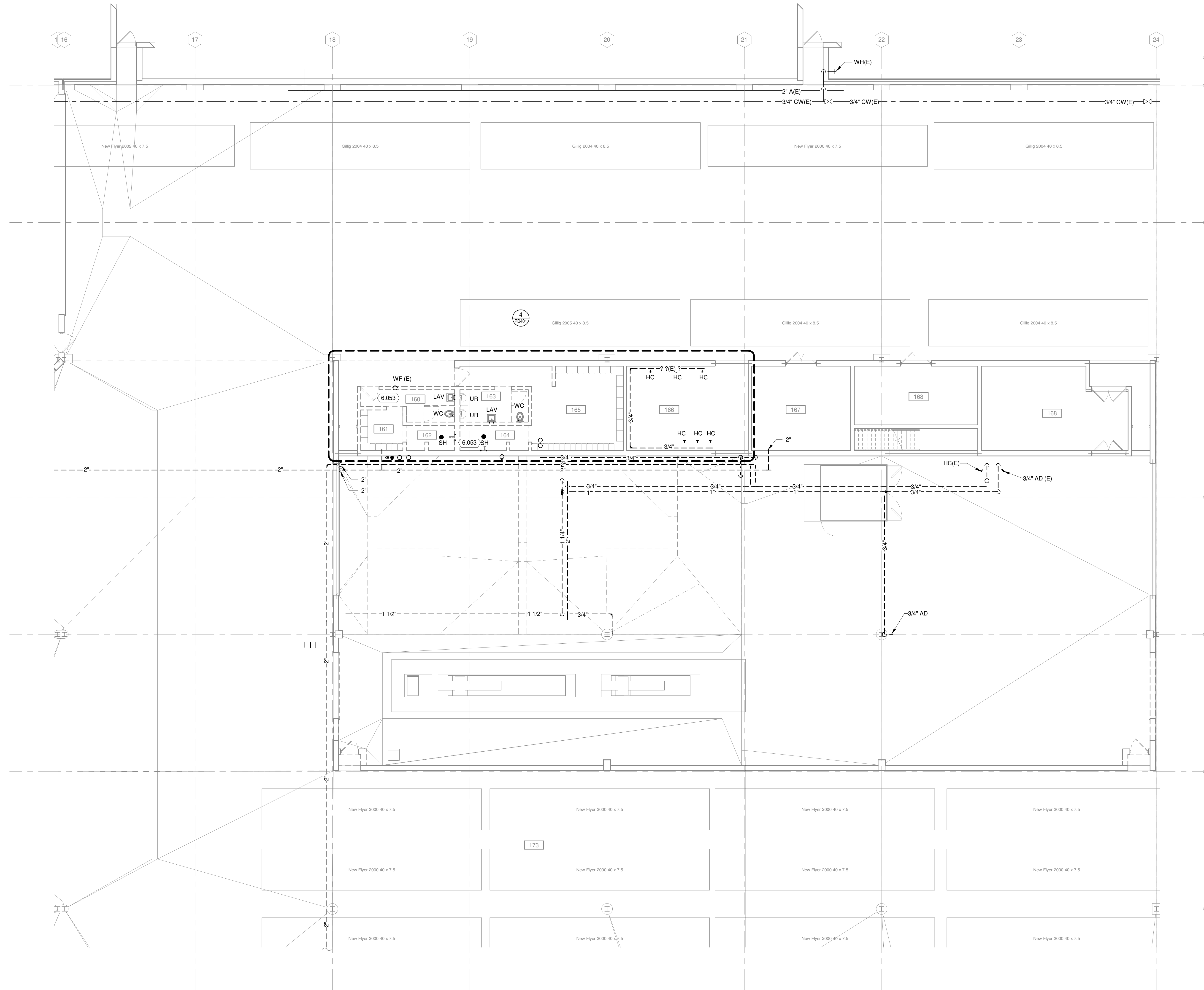
- REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
- REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
- REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

**FIRST FLOOR - AREA F - ALTERNATE BID #1**

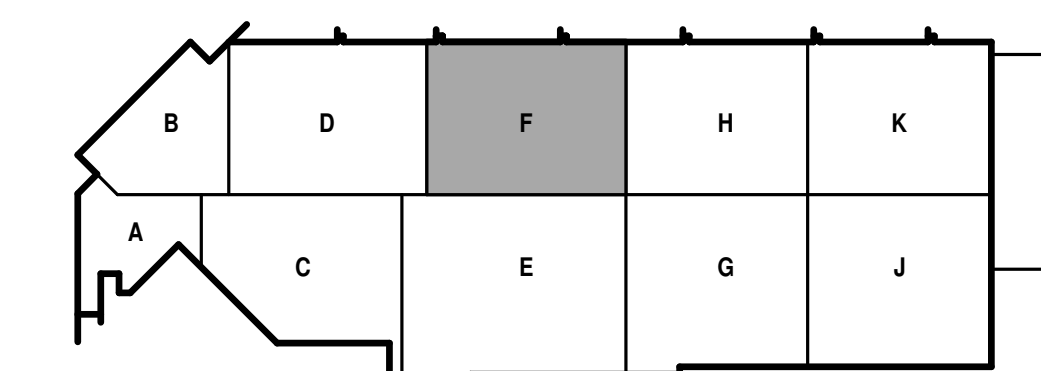
- SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

**KEYED NOTES**

- 6.053 DEMOLISH ALL FIXTURES, VALVES, AND PIPING.



TRUE PLAN  
NORTH NORTH  
**1**  
**FIRST FLOOR SUPPLY PIPING DEMOLITION PLAN - AREA F**  
1/8" = 1'-0"



KEY PLAN

**GENERAL NOTES**

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE G-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

**KEYED NOTES**

- 6.055 DEMOLISH EXISTING GAS WATER HEATER, WATER HEATER STORAGE TANK, WATER SOFTENER, INLINE WATER PUMPS AND ALL ASSOCIATED PIPING AND HANGERS.
- 6.060 DISCONNECT EXISTING RECIPROCATING COMPRESSOR. DEMOLISH ALL OTHER EQUIPMENT, PIPING AND VALVING ASSOCIATED WITH COMPRESSED AIR SYSTEM. TURN EXISTING COMPRESSOR OVER TO THE OWNER.

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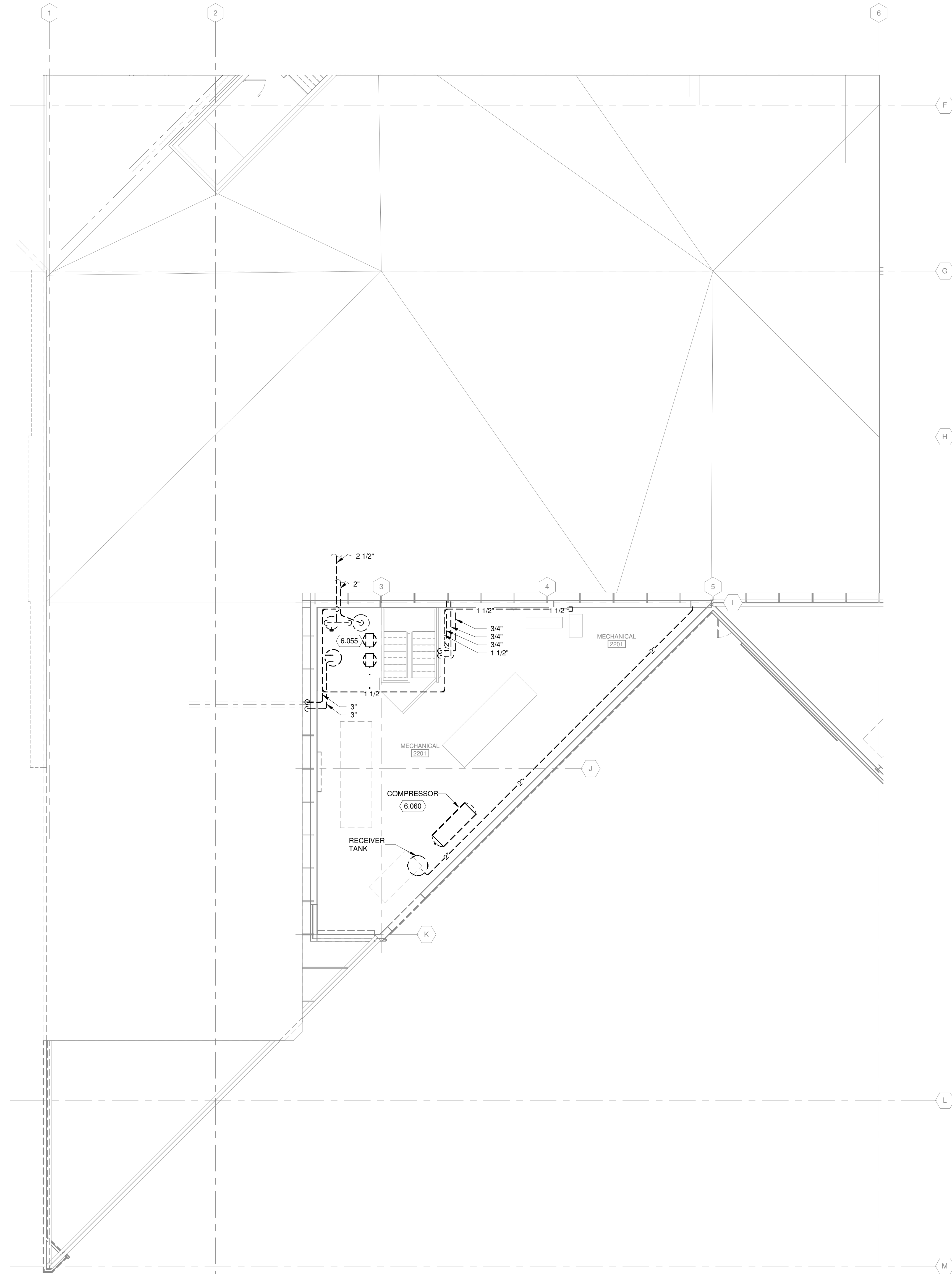
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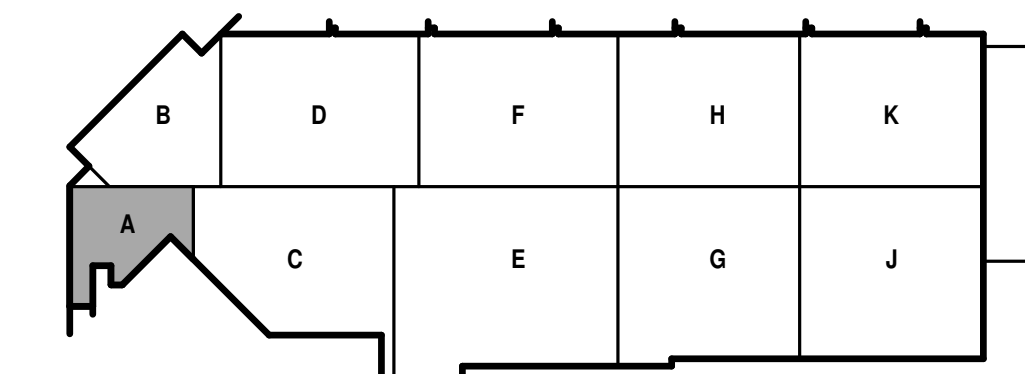
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SHEET CONTENTS  
SECOND FLOOR  
SUPPLY DEMOLITION  
PLAN - AREA A

SHEET NO.:

**PD132A**



TRUE PLAN  
NORTH NORTH  
**1**  
**SECOND LEVEL MEZZANINE  
SUPPLY DEMOLITION PLAN - AREA A**  
1/8" = 1'-0"



KEY PLAN

**GENERAL NOTES**

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

**KEYED NOTES**

- 6.056 DEMOLISH EXISTING GAS WATER HEATER, WATER HEATER STORAGE TANK, INLINE WATER PUMPS AND ALL ASSOCIATED PIPING AND HANGERS.
- 6.057 DEMOLISH EXISTING SCREW COMPRESSOR, RECEIVER TANK AND ASSOCIATED PIPING AND HANGERS.
- 6.058 DISCONNECT EXISTING SCREW COMPRESSOR. DEMOLISH DUCTWORK AND PIPING. TURN EXISTING COMPRESSOR OVER TO THE OWNER.

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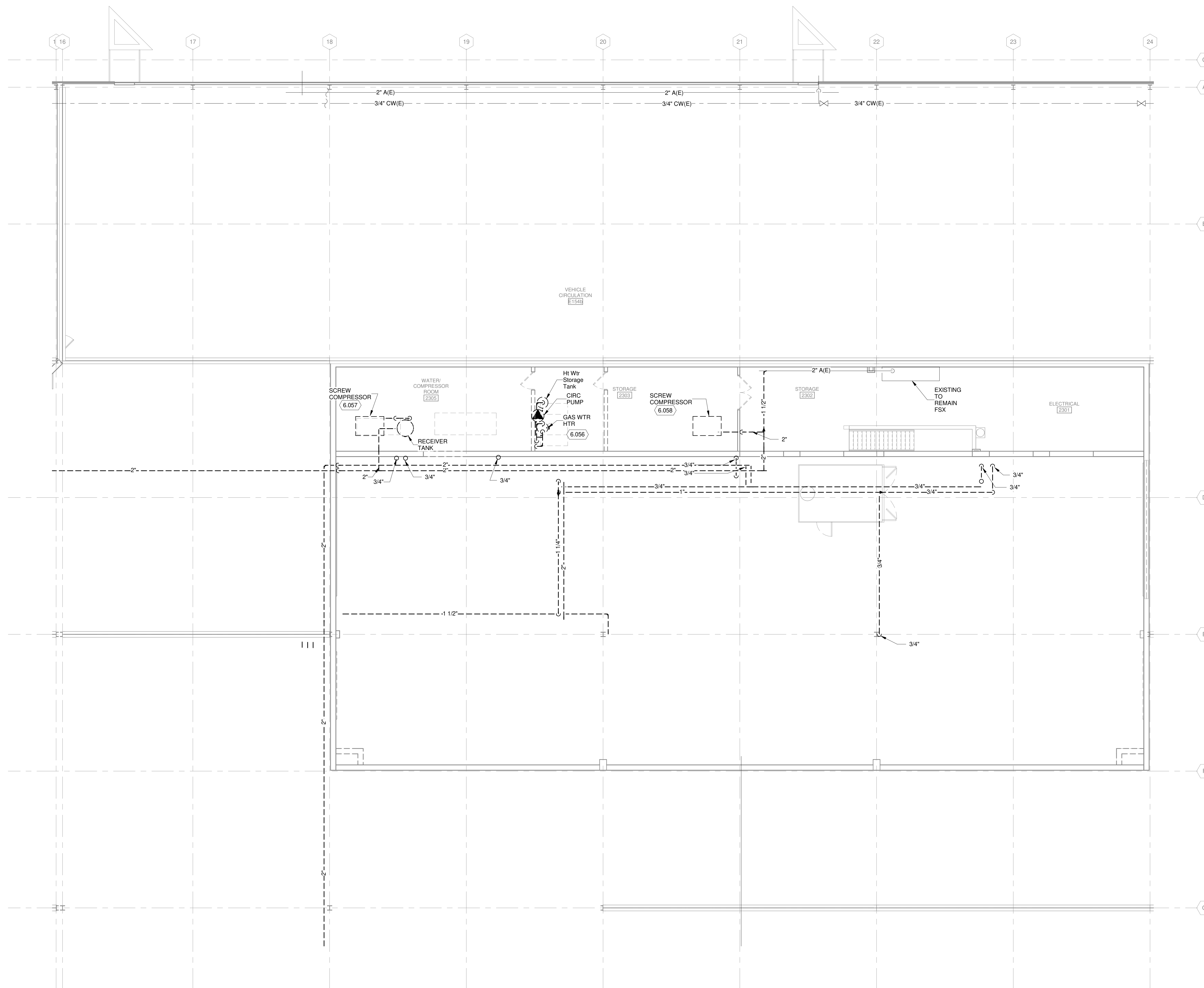
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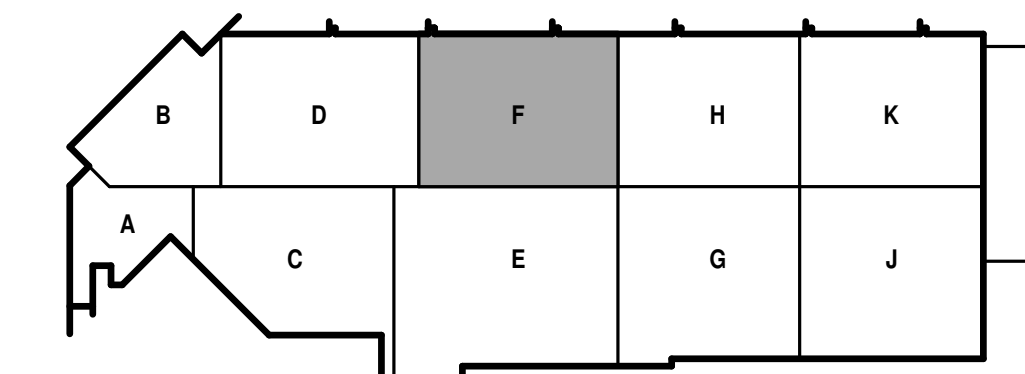
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SECOND FLOOR  
SUPPLY DEMOLITION  
- AREA F

SHEET NO.:

**PD132F**

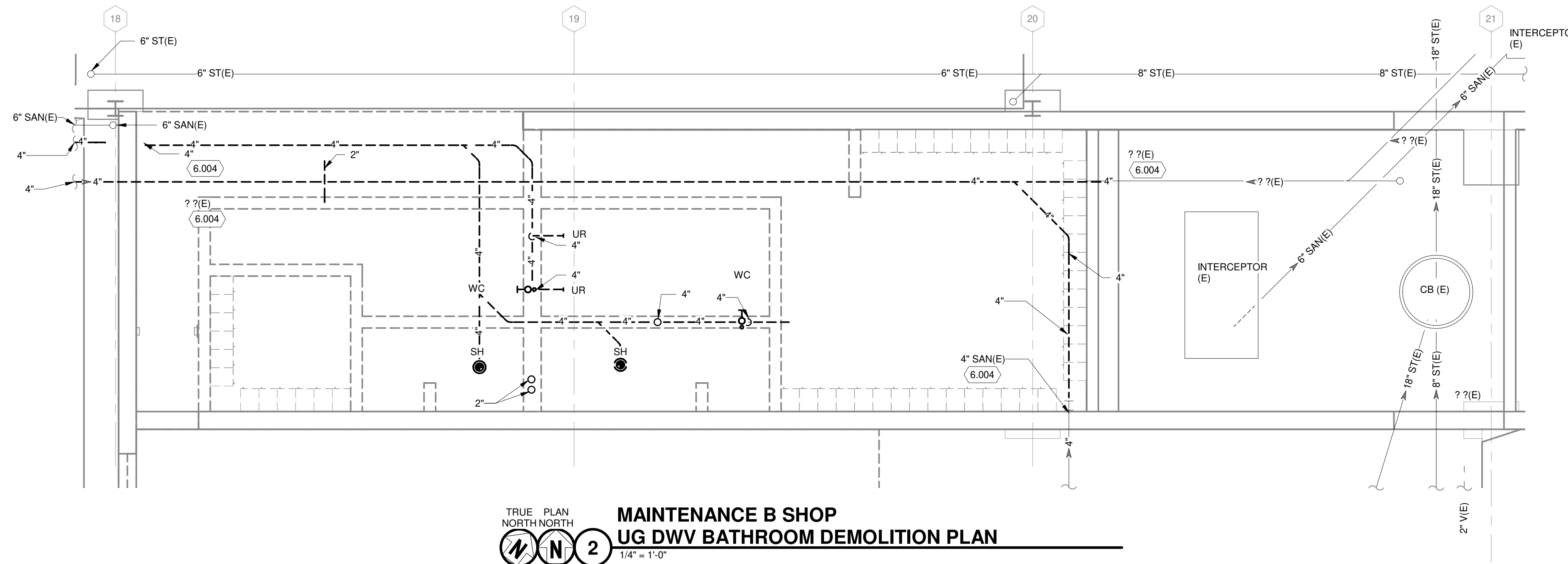


TRUE PLAN  
NORTH NORTH  
**1 SECOND FLOOR SUPPLY PIPING DEMOLITION PLAN - AREA F**  
1/8" = 1'-0"

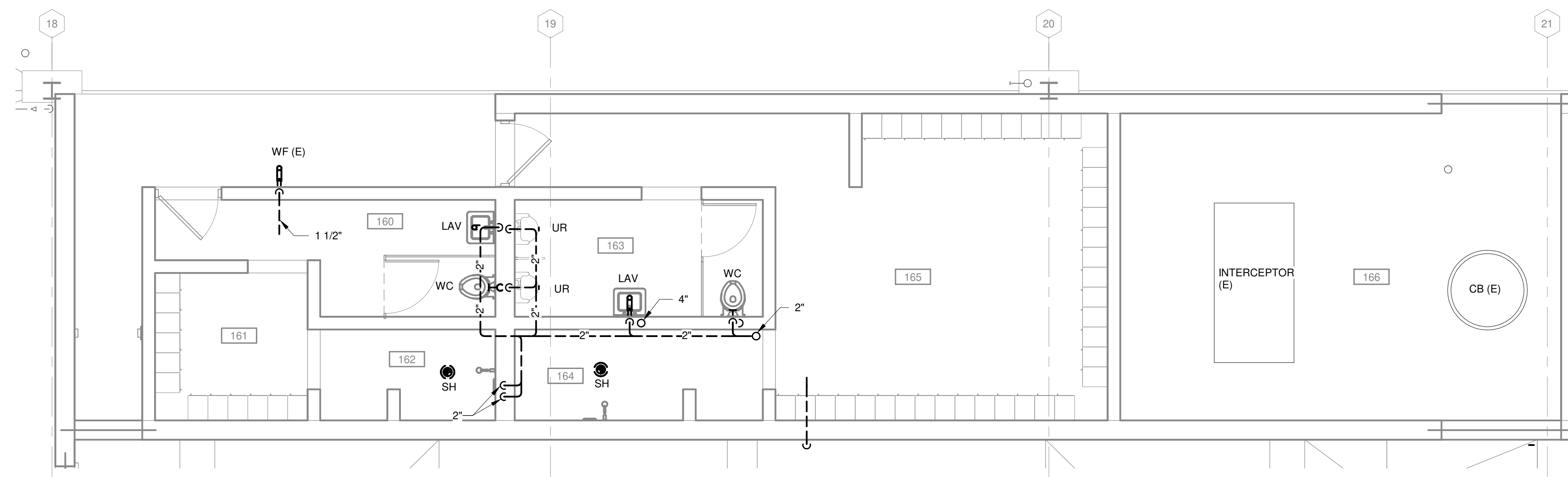


KEY PLAN

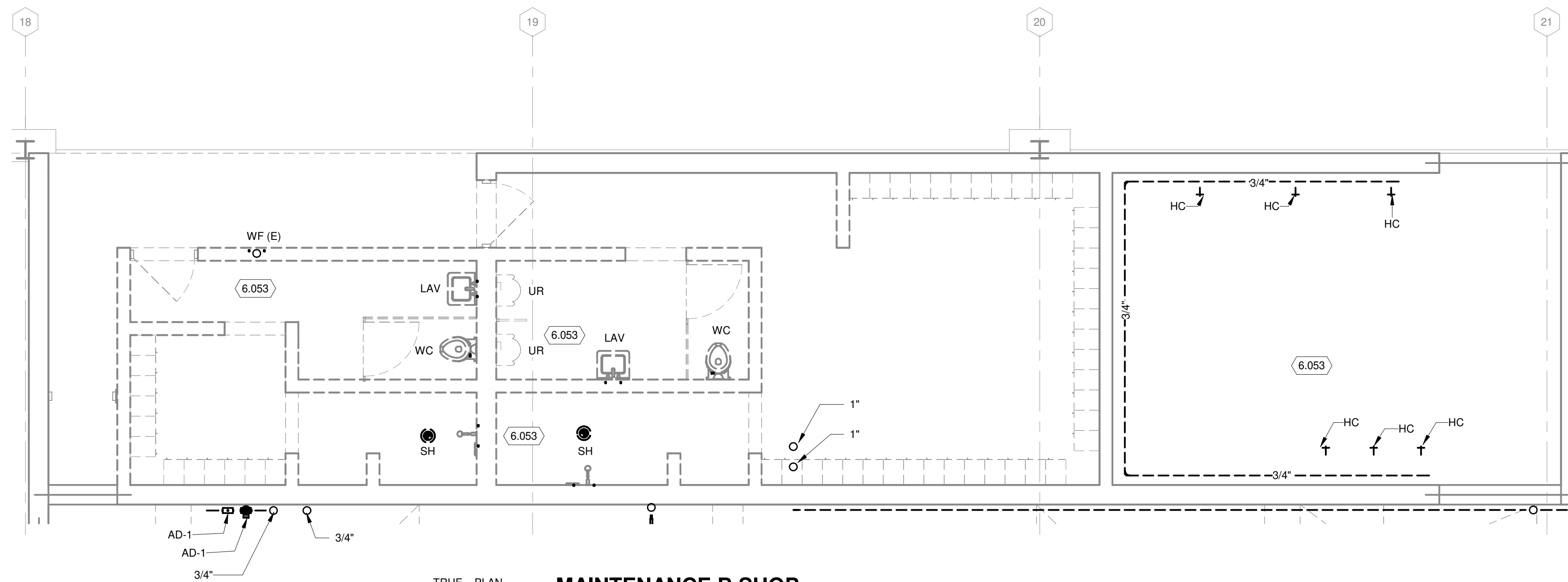




TRUE PLAN NORTH NORTH  
**2**  
**MAINTENANCE B SHOP**  
**UG DWV BATHROOM DEMOLITION PLAN**  
 1/4" = 1'-0"



TRUE PLAN NORTH NORTH  
**1**  
**MAINTENANCE B SHOP**  
**AG DWV BATHROOM DEMOLITION PLAN**  
 1/4" = 1'-0"



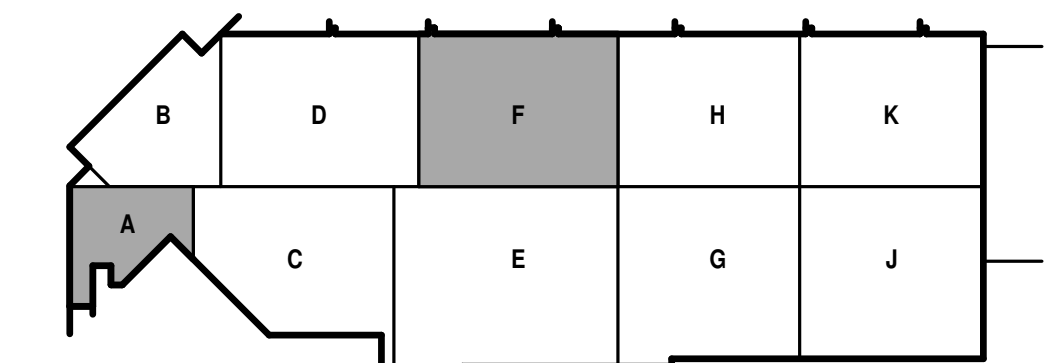
TRUE PLAN NORTH NORTH  
**4**  
**MAINTENANCE B SHOP**  
**FIRST FLOOR SUPPLY PIPING DEMOLITION PLAN - AREA F**  
 1/4" = 1'-0"

**GENERAL NOTES**

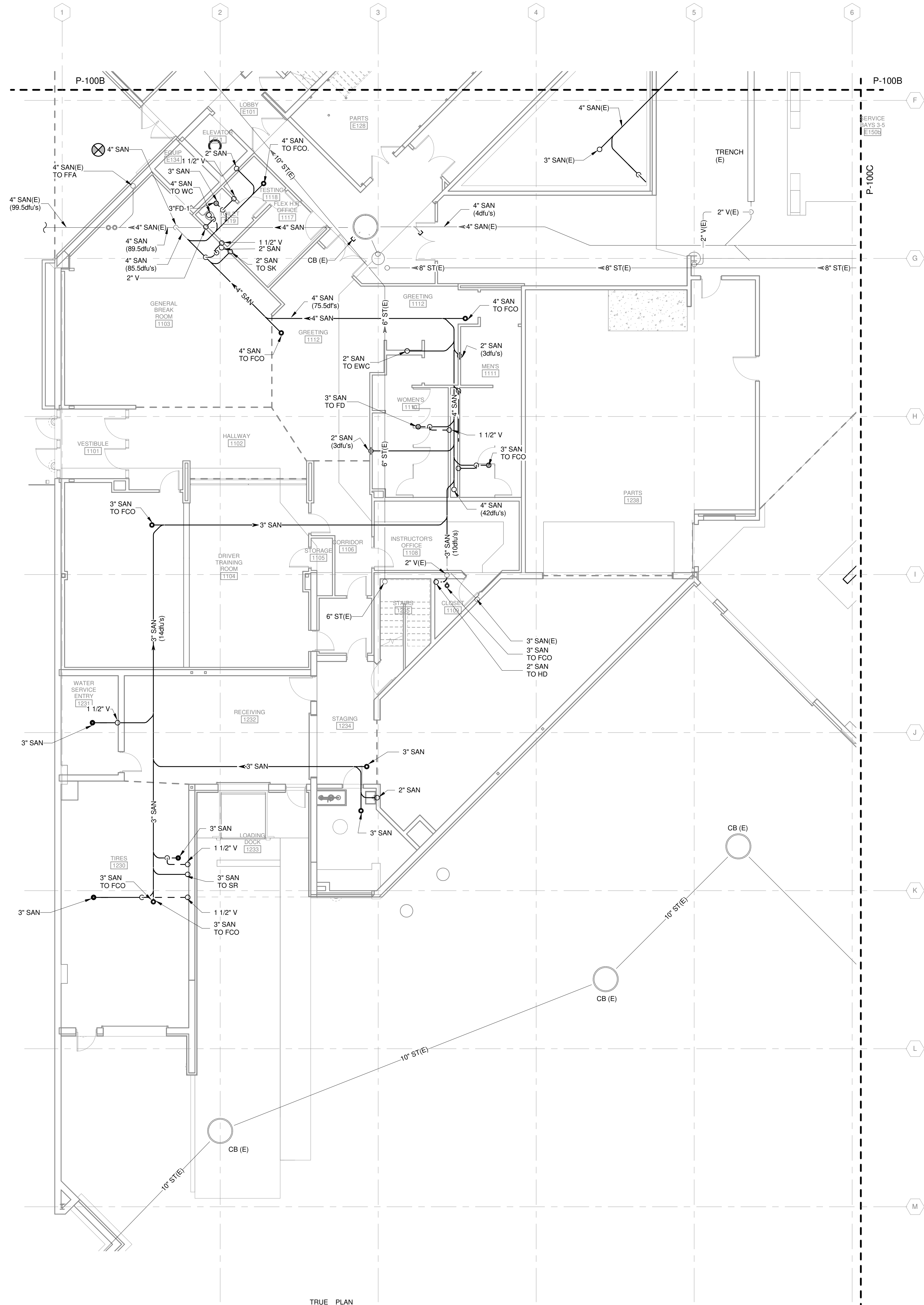
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3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

**KEYED NOTES**

- 6.004 PREPARE EXISTING PIPE FOR NEW PIPE CONNECTION IN NEW WORK.  
 6.053 DEMOLISH ALL FIXTURES, VALVES, AND PIPING.



KEY PLAN



TRUE PLAN NORTH NORTH  
 1 UNDERGROUND DRAIN AND VENT PLAN - AREA A  
 1/8" = 1'-0"

**GENERAL NOTES**

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE G-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

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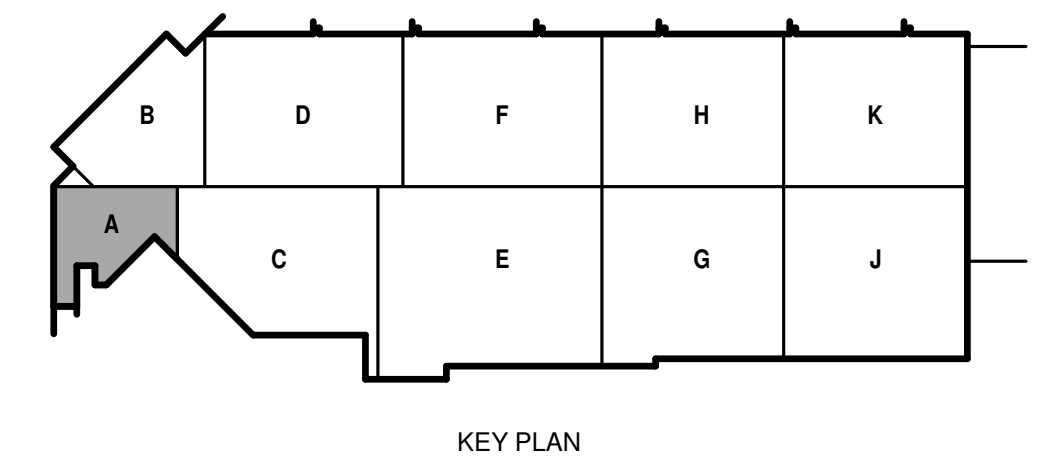
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SHEET CONTENTS  
 UNDERGROUND DRAIN AND VENT PLAN - AREA A

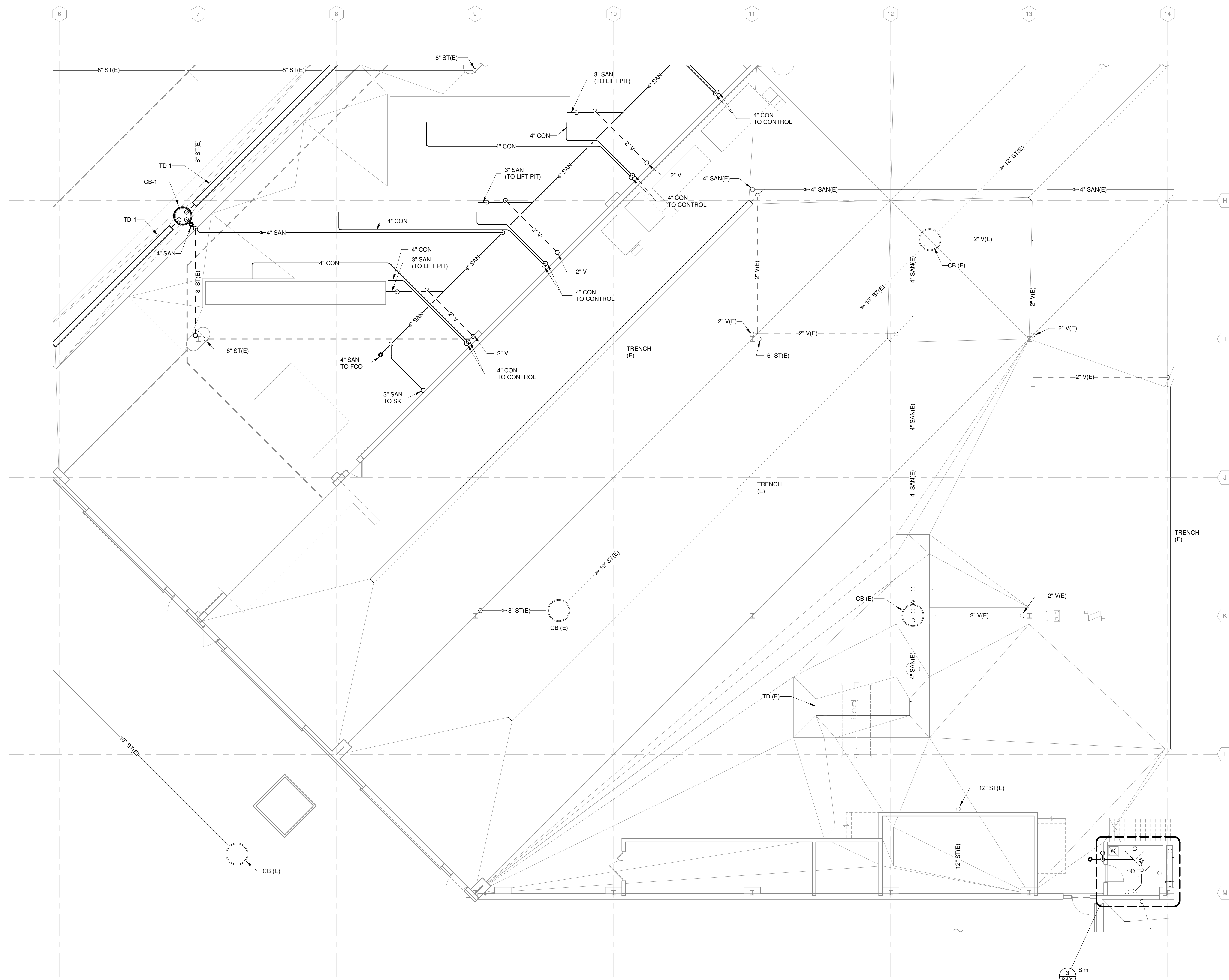
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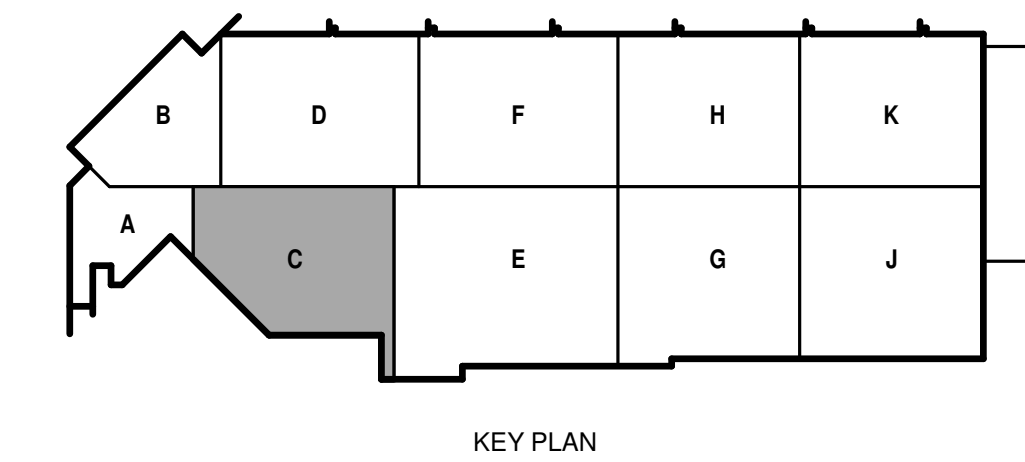
**P-100A**

**GENERAL NOTES**

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.



TRUE PLAN  
NORTH NORTH  
**1**  
1/8" = 1'-0"  
**UNDERGROUND DRAIN AND VENT PLAN - AREA C**



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METRO TRANSIT PHASE 3A - MAINTENANCE AND  
DRIVER FACILITY IMPROVEMENTS  
1101 EAST WASHINGTON AVE.  
MADISON, WI 53703**

ISSUED  
04/08/21 BID SET

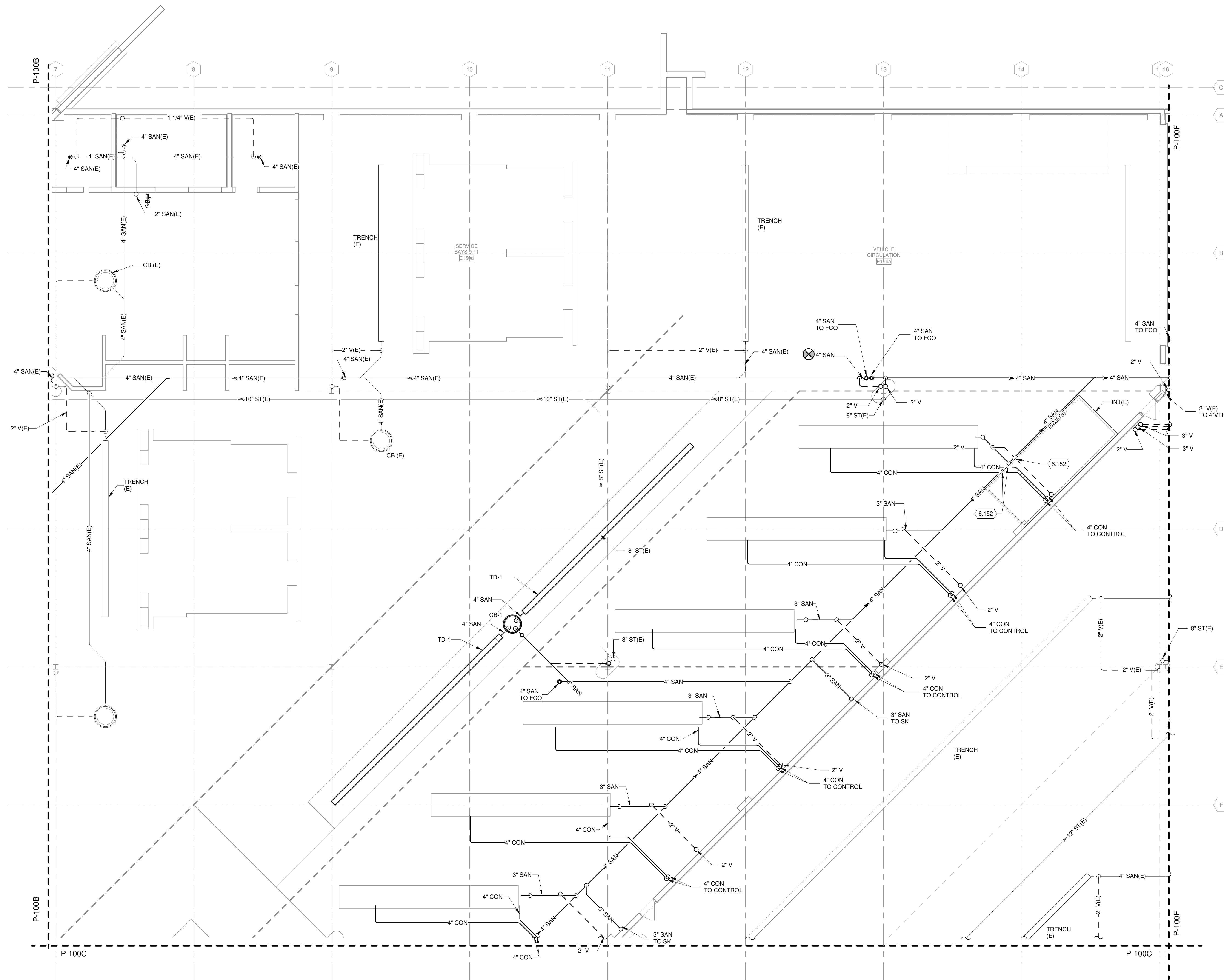
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M&H NO.: 4503500-1908996.03  
DATE: April 8, 2021  
DESIGNED BY: JET  
DRAWN BY: JET  
CHECKED BY: RMM  
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SHEET CONTENTS  
UNDERGROUND  
DRAIN AND VENT  
PLAN - AREA B

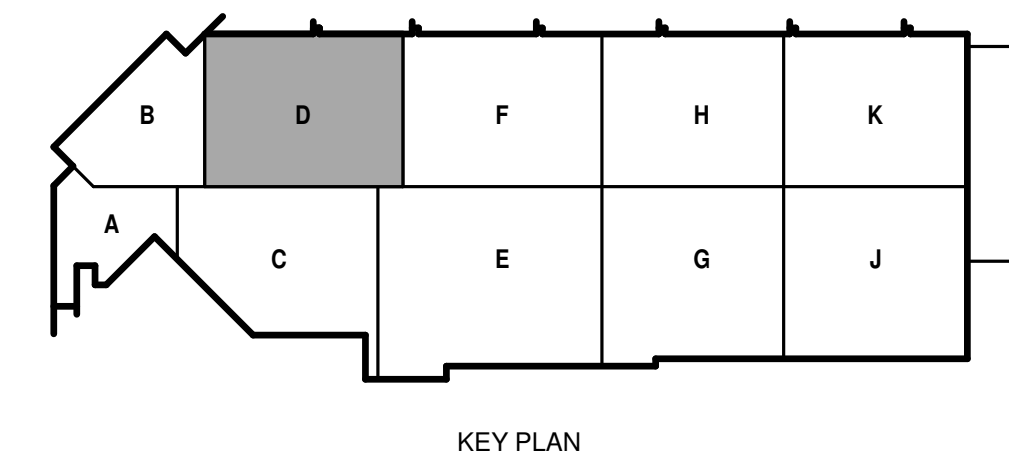
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**GENERAL NOTES**

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.



TRUE PLAN  
NORTH NORTH  
**1**  
1/8" = 1'-0"  
**UNDERGROUND DRAIN AND VENT PLAN - AREA D**



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SHEET CONTENTS  
UNDERGROUND DRAIN AND VENT PLAN - AREA D

SHEET NO.:

**P-100D**

**GENERAL NOTES**

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

**FIRST FLOOR - AREA F - ALTERNATE BID #1**

1. SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

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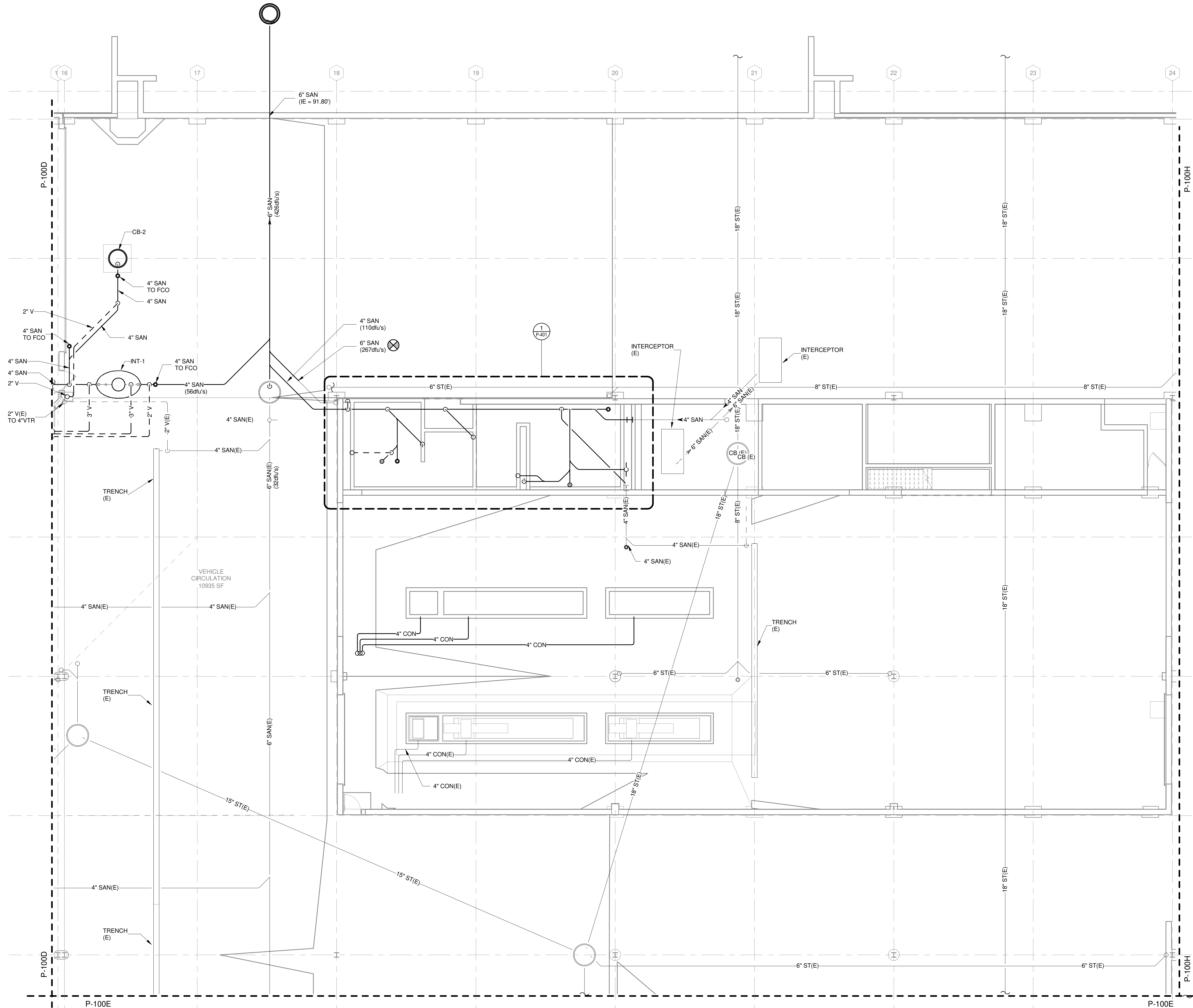
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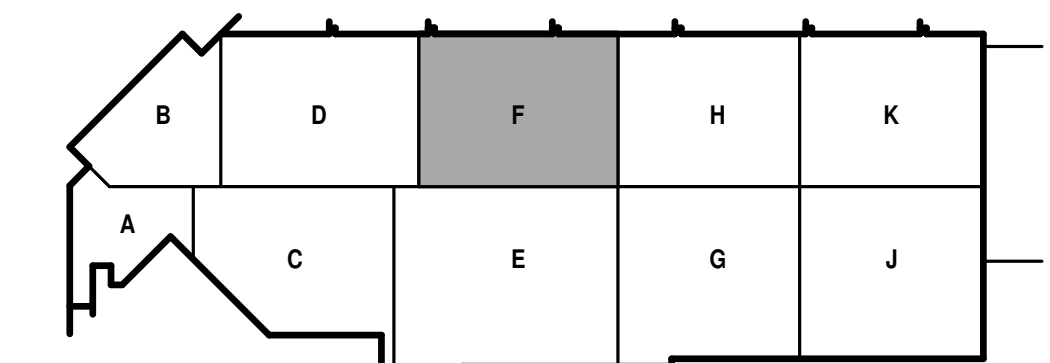
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UNDERGROUND  
DRAIN AND VENT  
PLAN - AREA F

SHEET NO.:

**P-100F**

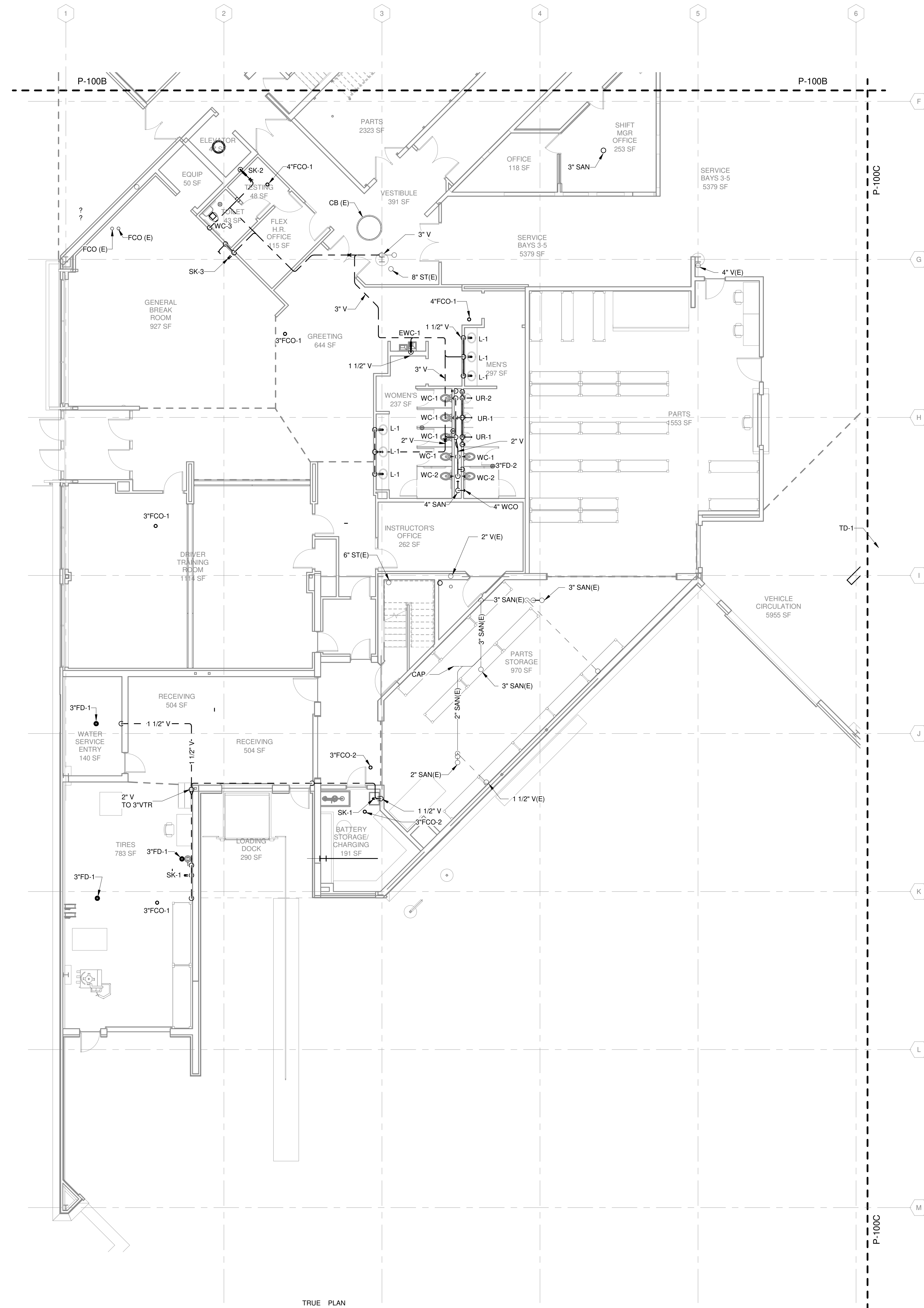


TRUE PLAN  
NORTH NORTH  
**1**  
1/8" = 1'-0"  
**UNDERGROUND DRAIN AND VENT PLAN - AREA F**



KEY PLAN

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TRUE PLAN  
NORTH NORTH  
**1**  
1/8" = 1'-0"

**GENERAL NOTES**

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

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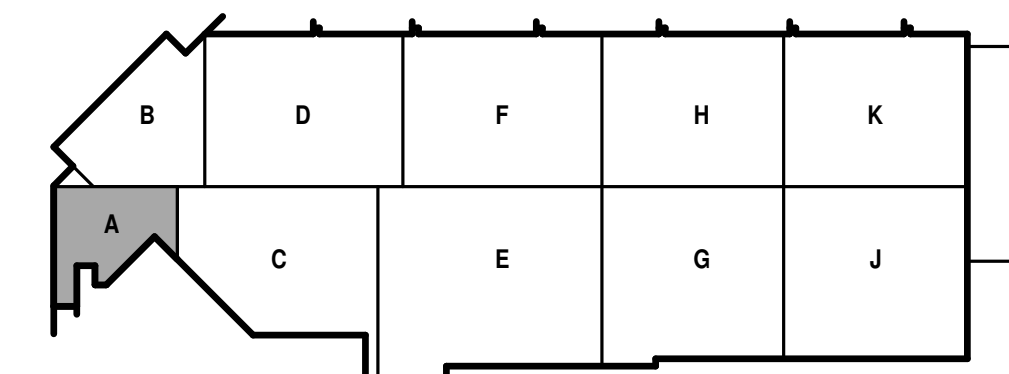
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CHECKED BY: RMM  
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SHEET CONTENTS  
FIRST FLOOR DRAIN  
AND VENT PLAN -  
AREA A

SHEET NO.:

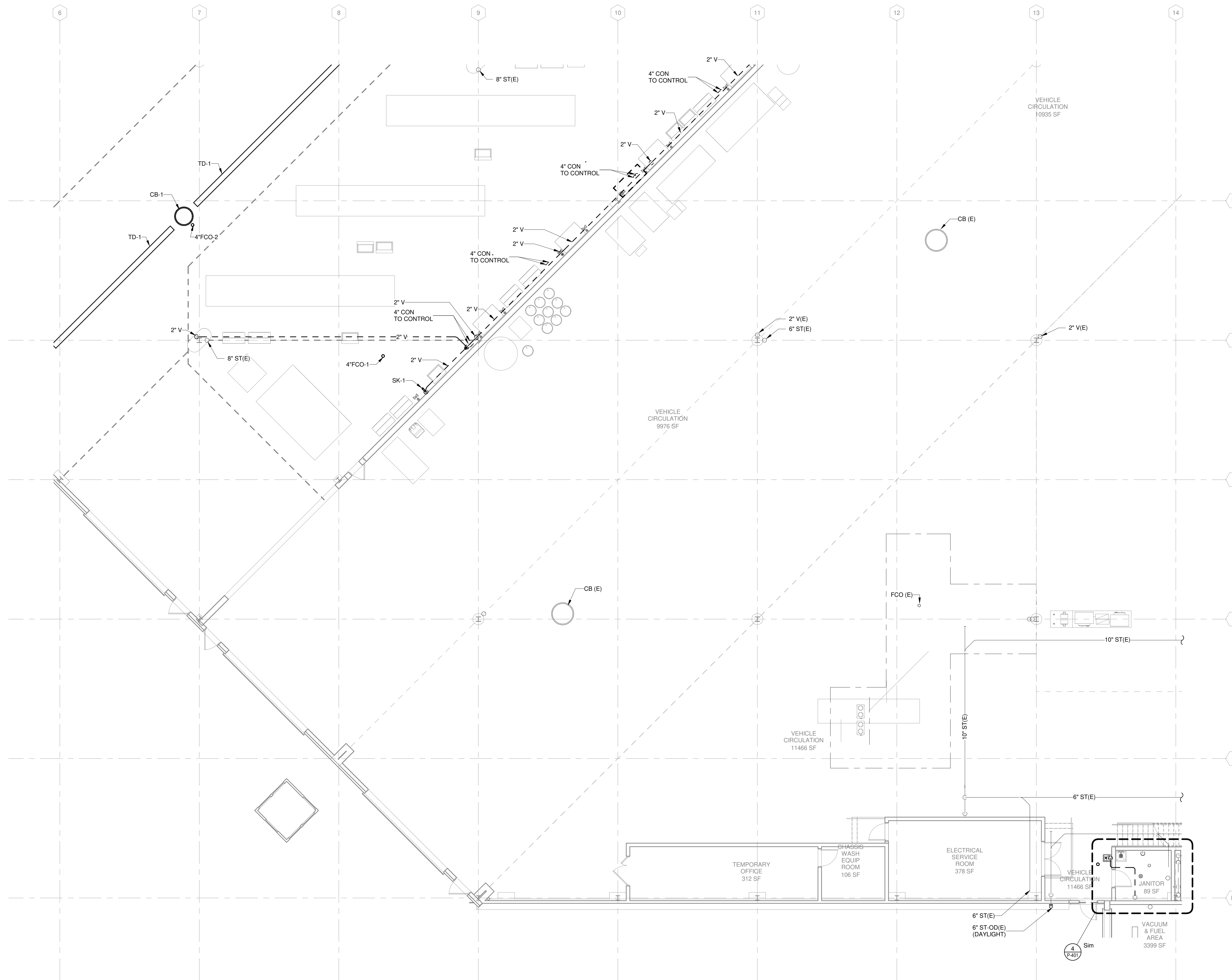
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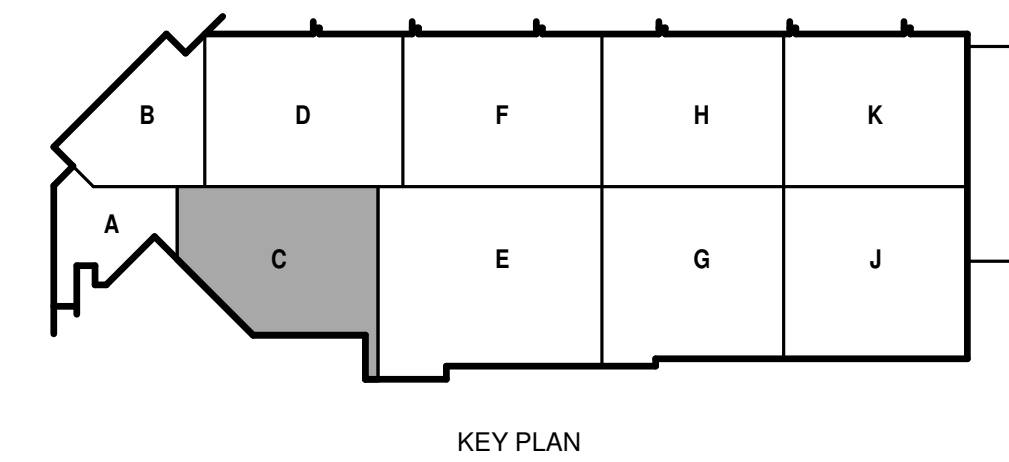
KEY PLAN

**GENERAL NOTES**

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.



TRUE PLAN  
NORTH NORTH  
**1**  
FIRST FLOOR DRAIN AND VENT PLAN - AREA C  
1/8" = 1'-0"



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SHEET CONTENTS  
FIRST FLOOR DRAIN  
AND VENT PLAN -  
AREA C

SHEET NO.:

**GENERAL NOTES**

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
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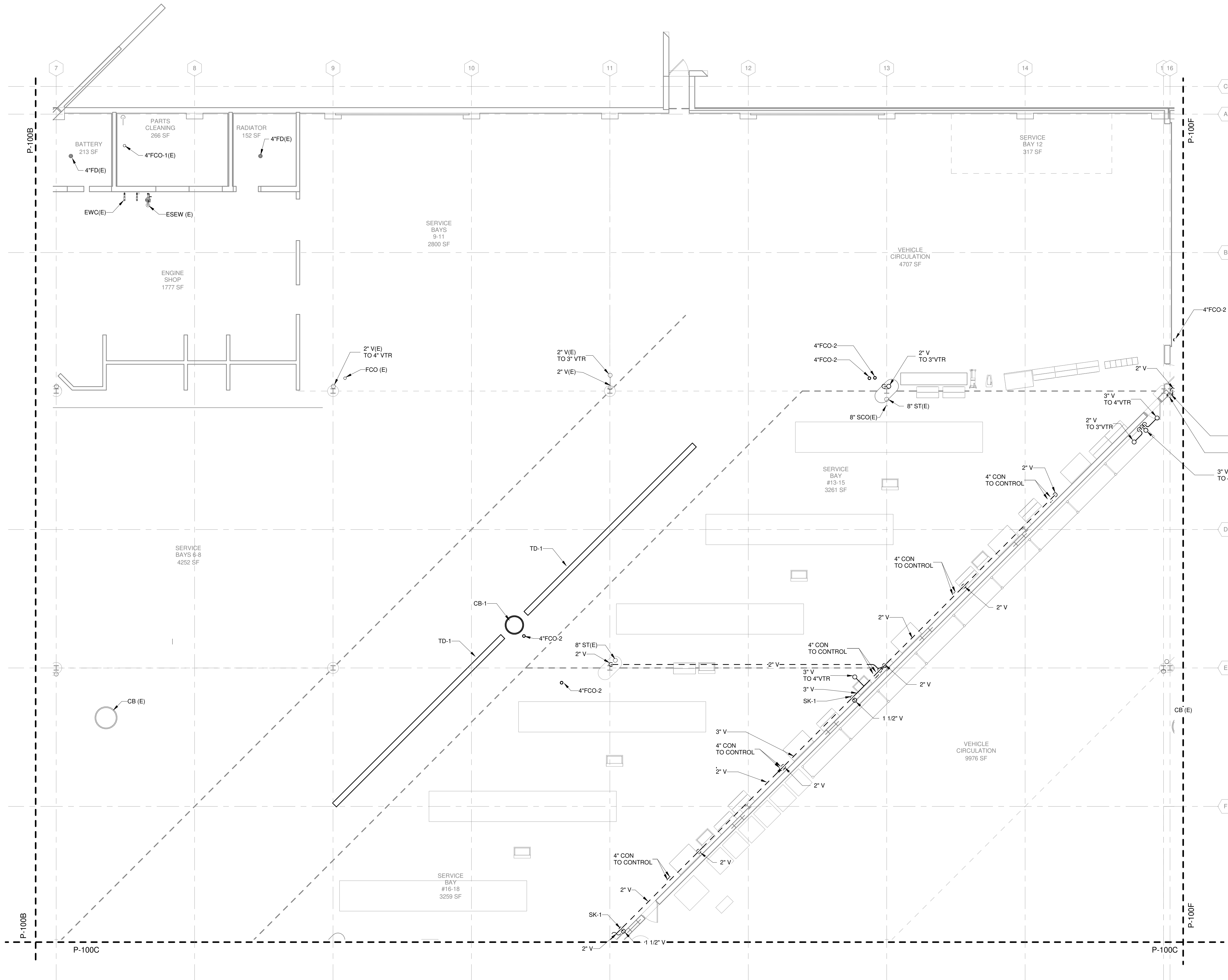
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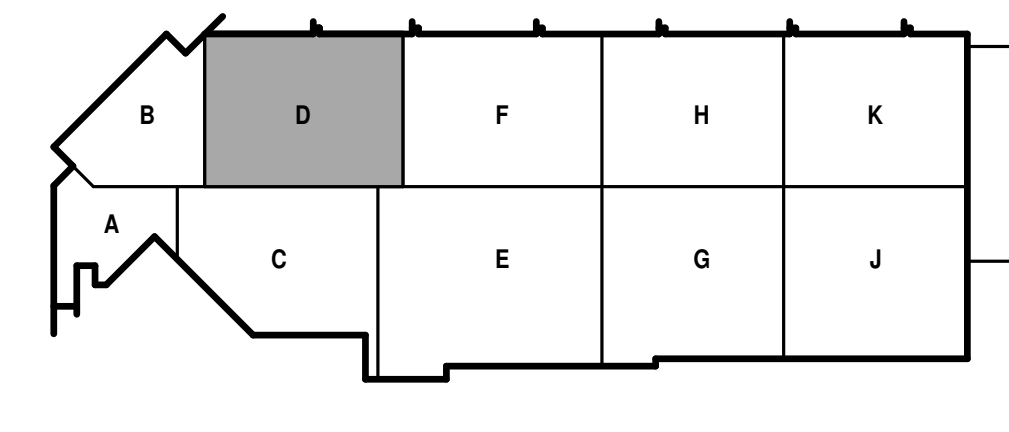
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FIRST FLOOR DRAIN  
AND VENT PLAN -  
AREA D

SHEET NO.:

**P-101D**



TRUE PLAN  
NORTH NORTH  
**FIRST FLOOR DRAIN AND VENT PLAN - AREA D**  
1/8" = 1'-0"



KEY PLAN



**GENERAL NOTES**

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE G-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

**FIRST FLOOR - AREA F - ALTERNATE BID #1**

1. SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

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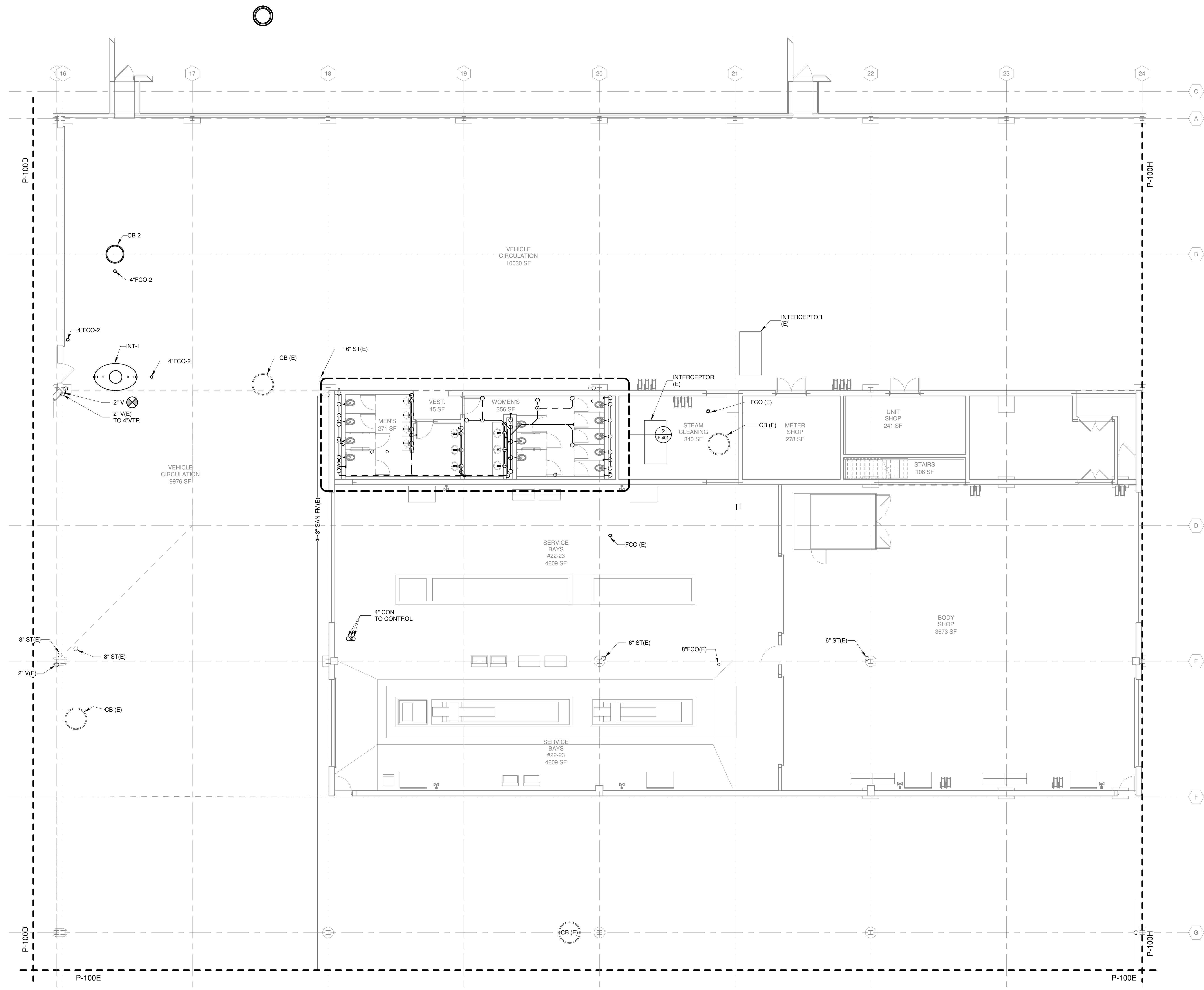
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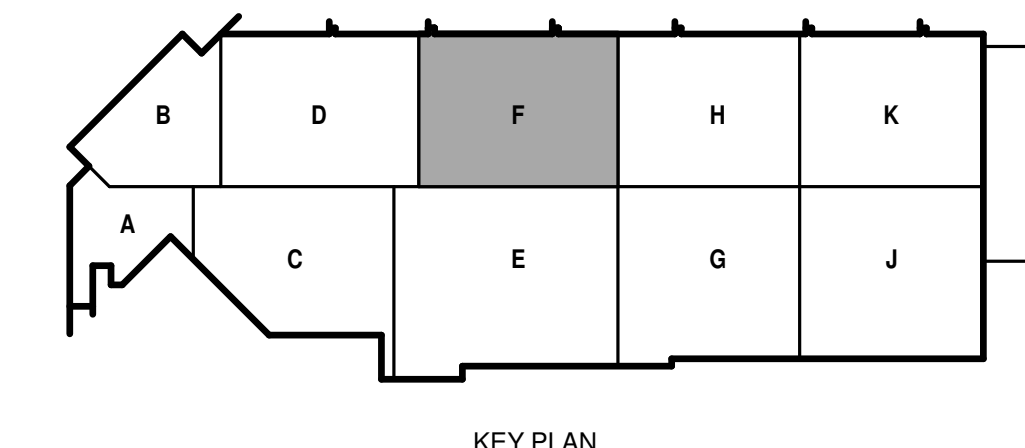
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FIRST FLOOR DRAIN AND VENT PLAN - AREA F

SHEET NO.:

**P-101F**



TRUE PLAN NORTH NORTH  
**1**  
FIRST FLOOR DRAIN AND VENT PLAN - AREA F  
1/8" = 1'-0"



KEY PLAN

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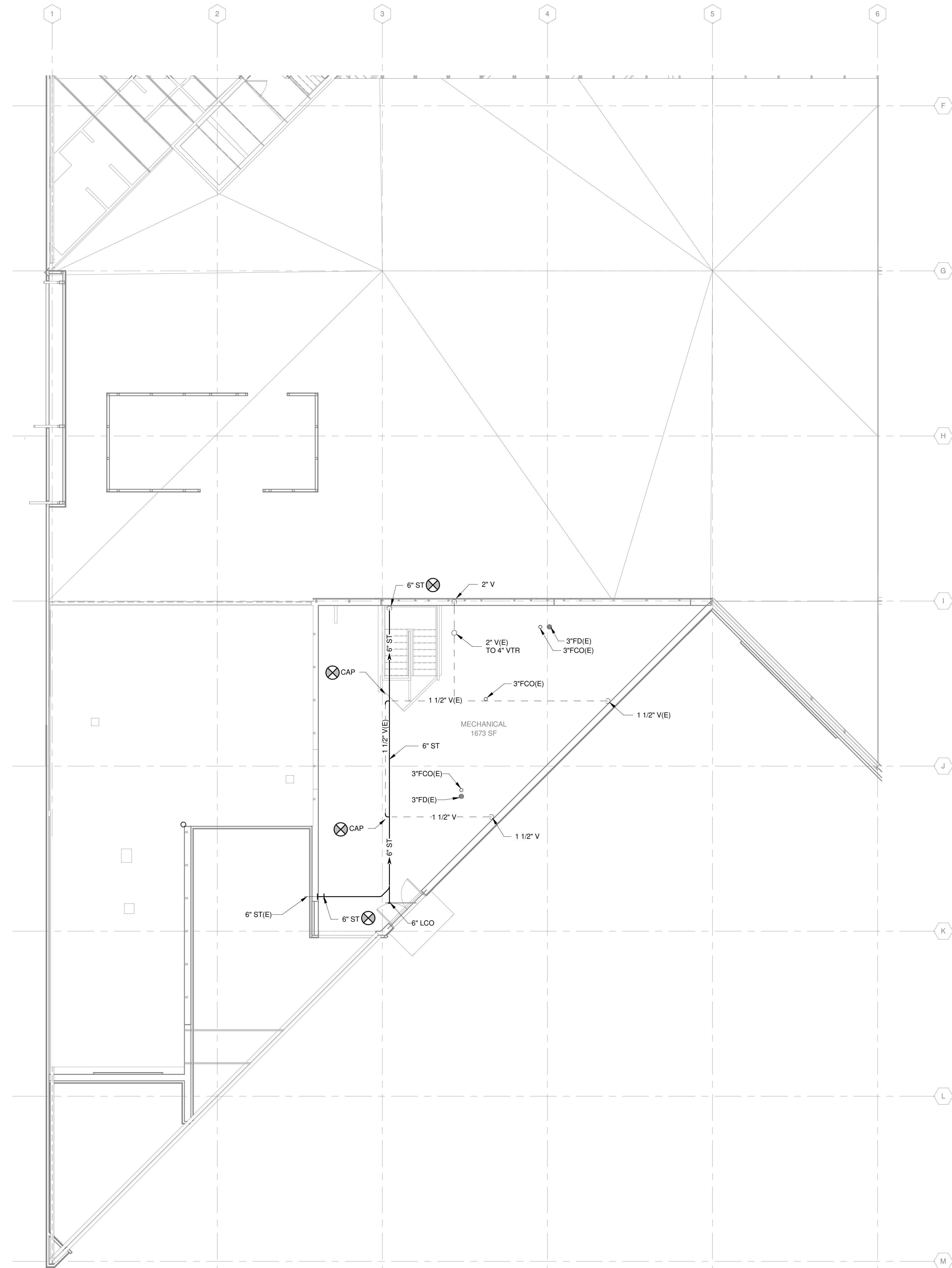
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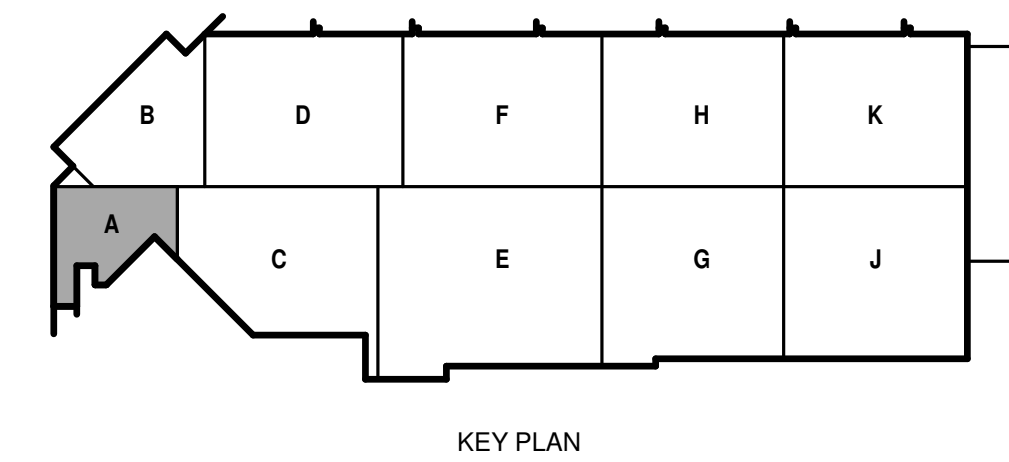
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SECOND FLOOR  
DRAIN AND VENT  
PLAN - EXISTING  
BOILER ROOM

SHEET NO.:

**P-102A**



TRUE PLAN  
NORTH/NORTH  
**1 SECOND FLOOR SUPPLY PIPING DEMOLITION PLAN - AREA A**  
1/8" = 1'-0"



KEY PLAN

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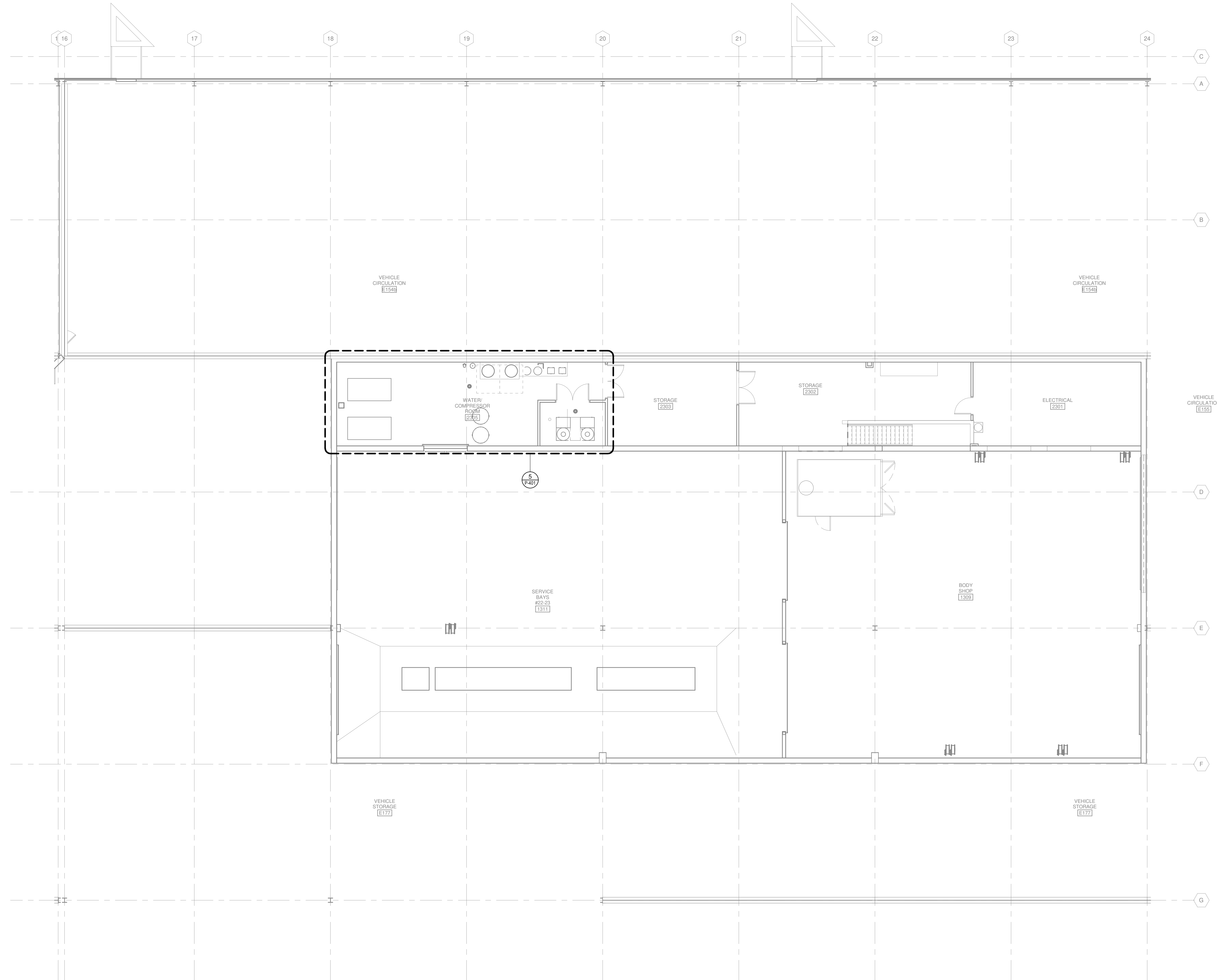
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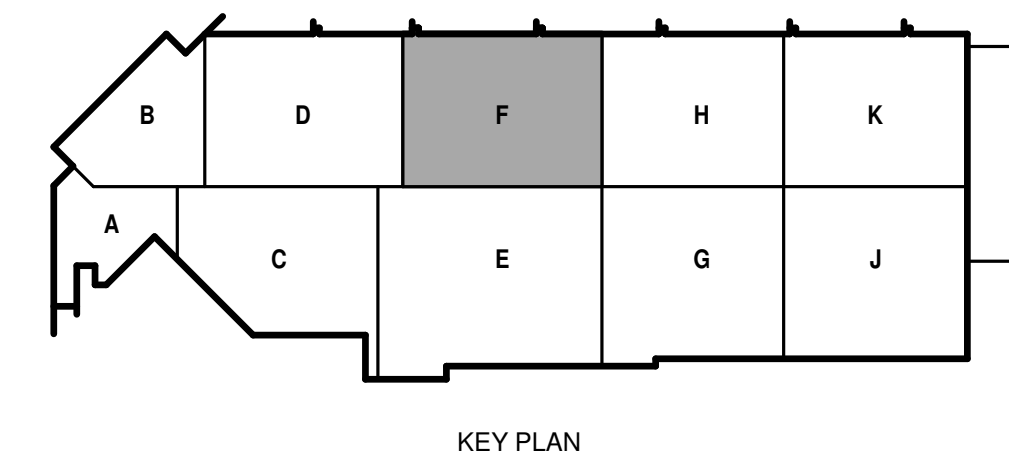
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SECOND FLOOR  
DRAIN AND VENT  
PLAN -  
MAINTENANCE B

SHEET NO.:

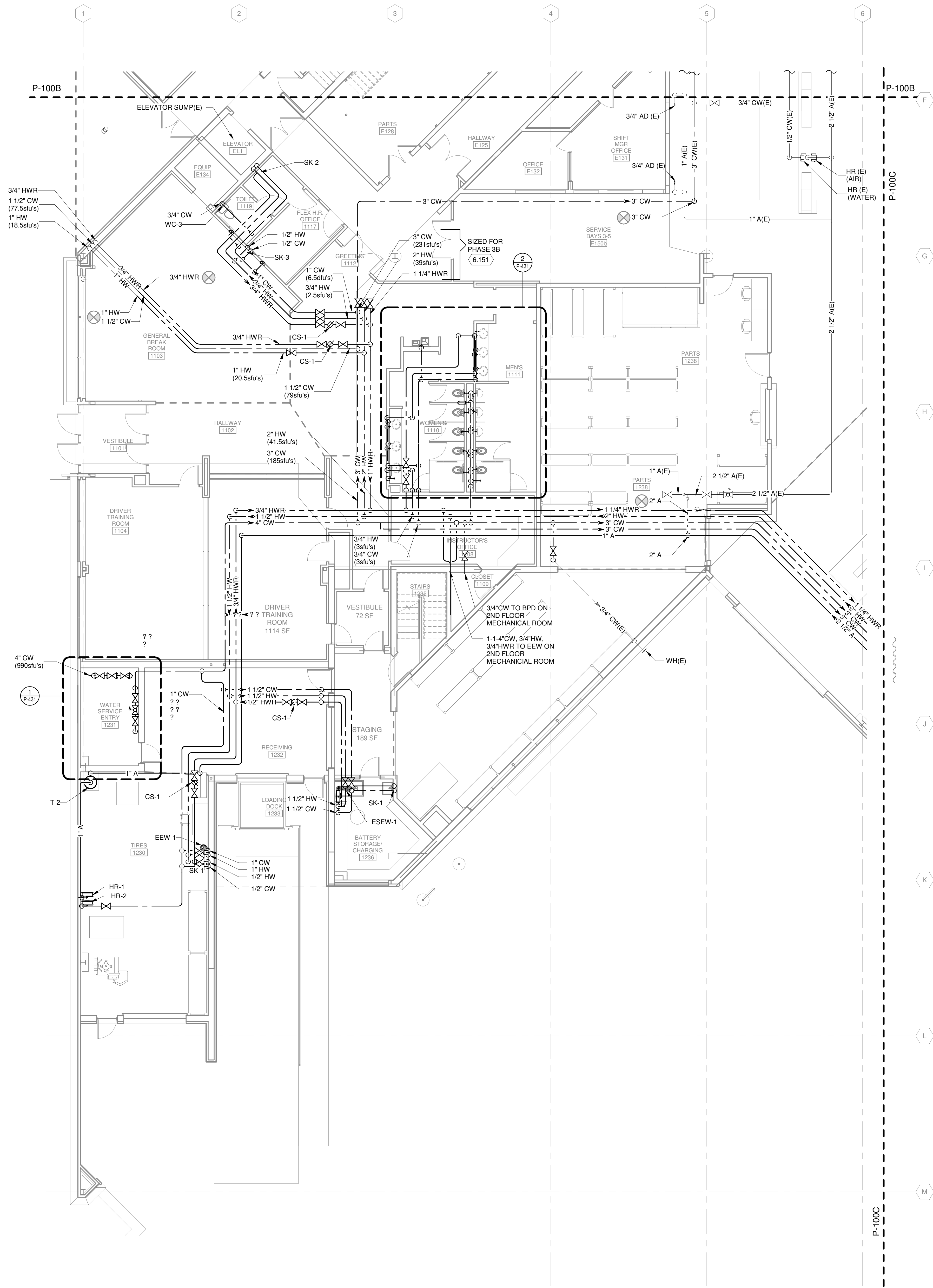
**P-102F**



TRUE PLAN  
NORTH NORTH  
**1** SECOND FLOOR SUPPLY PIPING DEMOLITION PLAN - AREA F  
1/8" = 1'-0"



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TRUE PLAN  
NORTH NORTH  
**1** FIRST FLOOR SUPPLY PIPING PLAN - AREA B  
1/8" = 1'-0"

**GENERAL NOTES**

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

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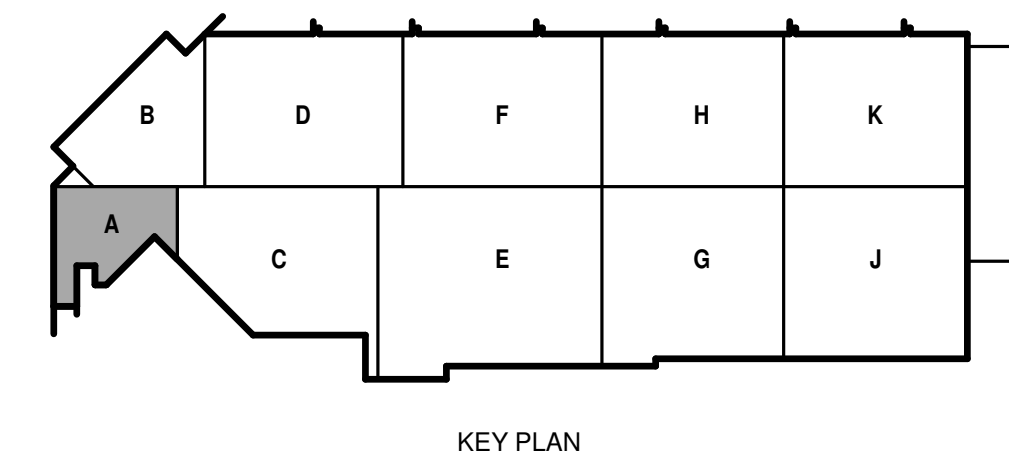
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SHEET CONTENTS  
FIRST FLOOR SUPPLY PLAN - AREA A

SHEET NO.:

**P-131A**



KEY PLAN

**GENERAL NOTES**

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

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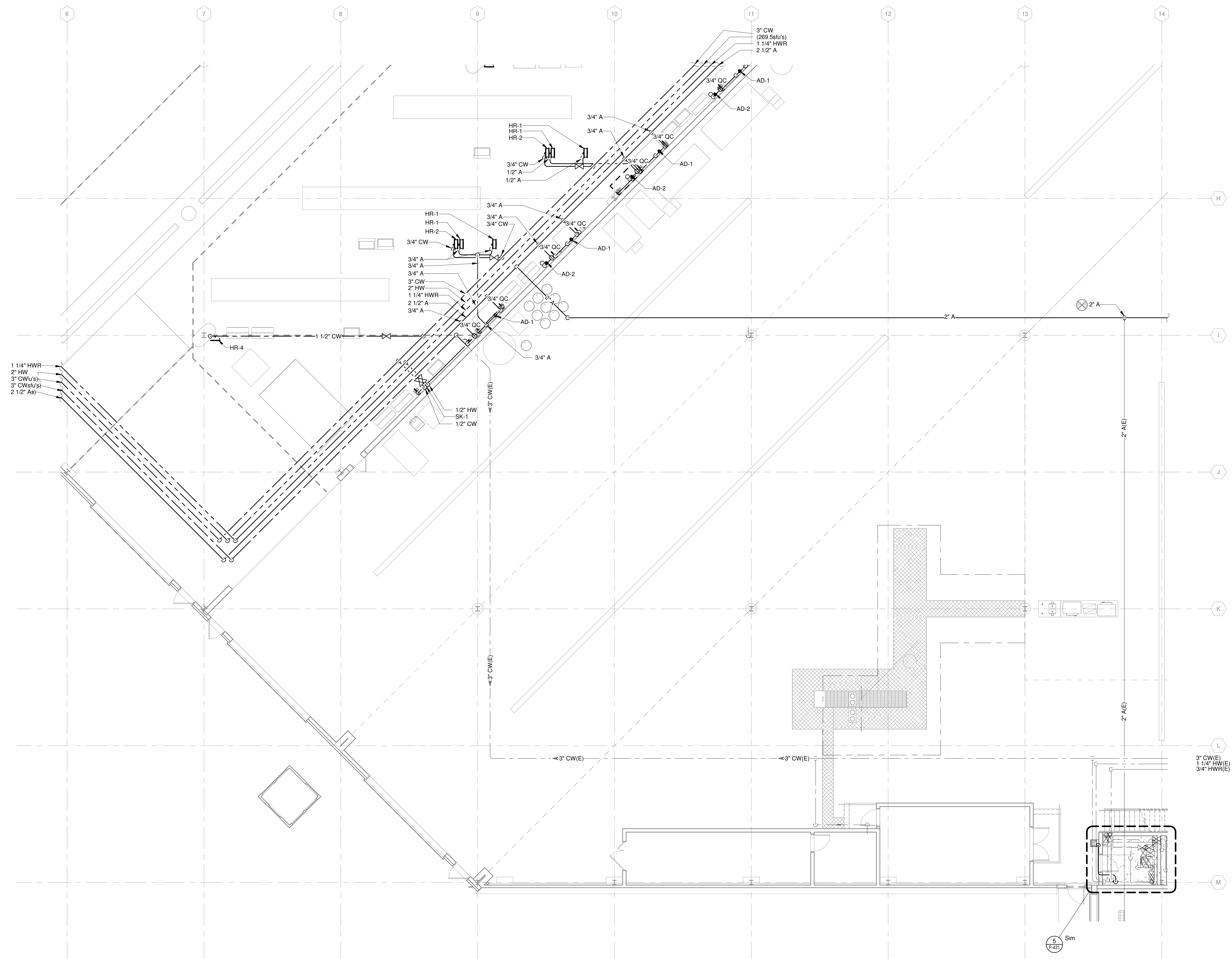
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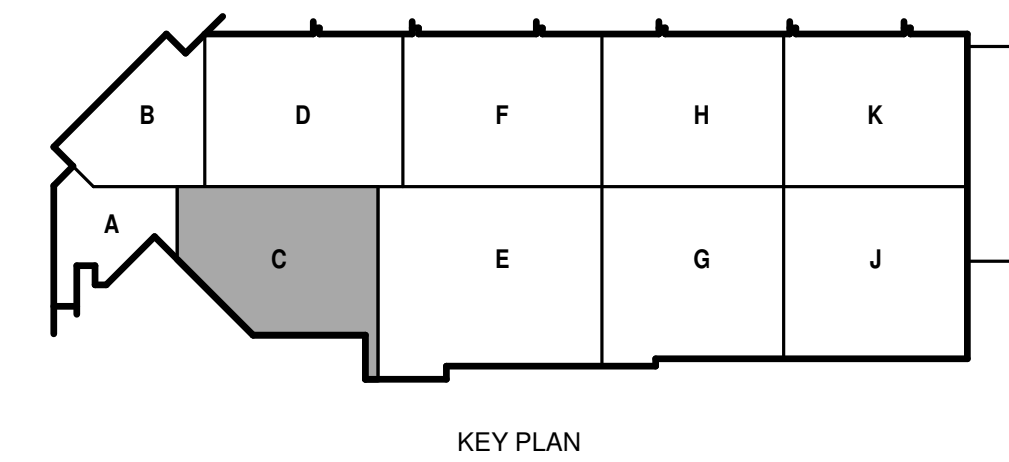
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FIRST FLOOR  
SUPPLY PLAN - AREA C

SHEET NO.:

**P-131C**



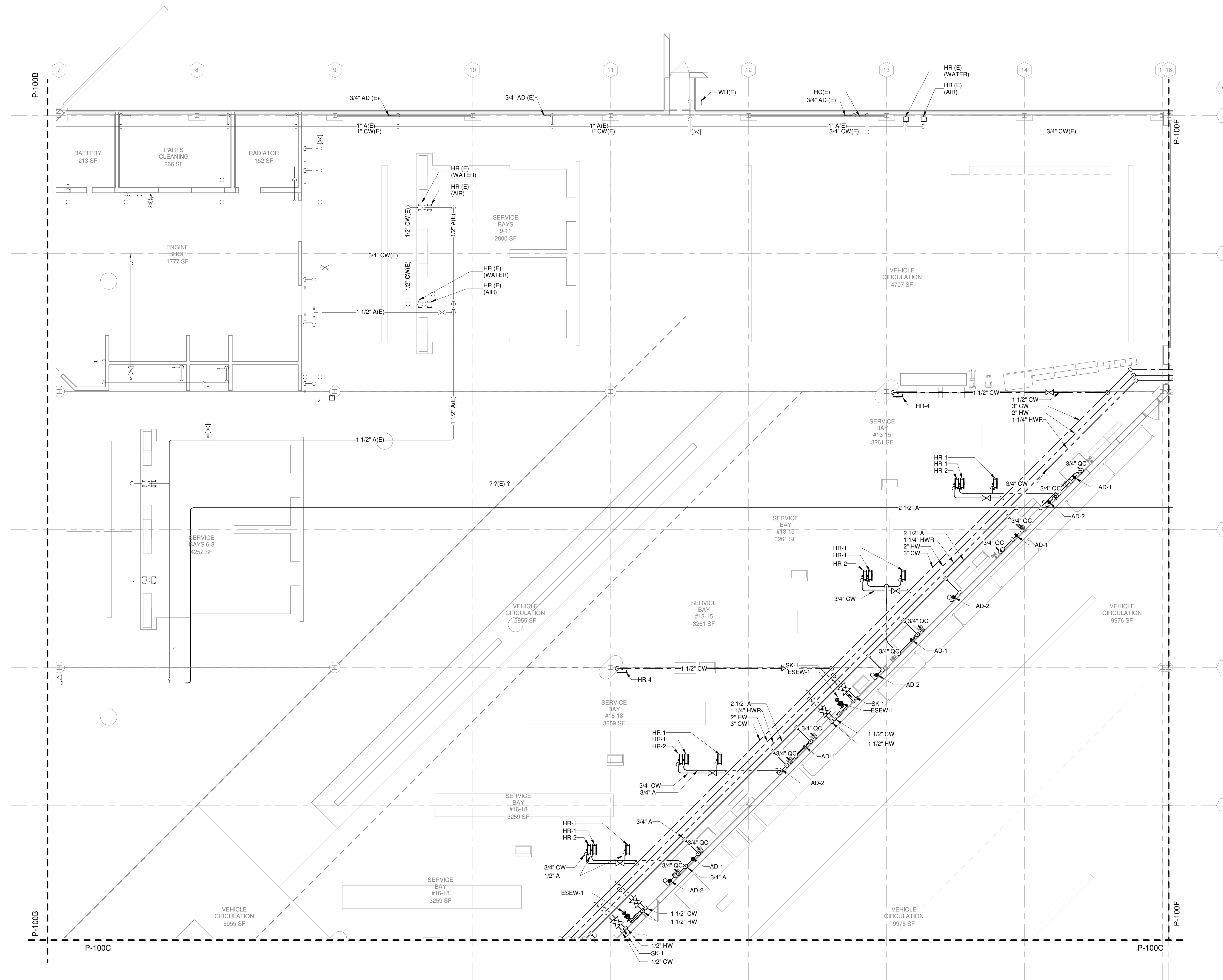
TRUE PLAN  
NORTH NORTH  
**FIRST FLOOR SUPPLY PIPING PLAN - AREA C**  
1/8" = 1'-0"



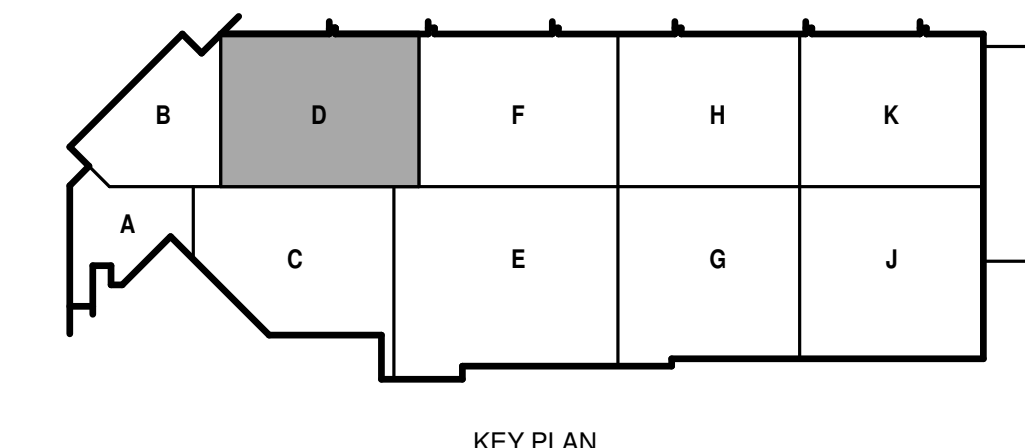
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**GENERAL NOTES**

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE O-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.



TRUE PLAN NORTH NORTH  
 **FIRST FLOOR SUPPLY PIPING PLAN - AREA D**  
 1/8" = 1'-0"



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SHEET CONTENTS  
**FIRST FLOOR SUPPLY PLAN - AREA D**

SHEET NO.:

**GENERAL NOTES**

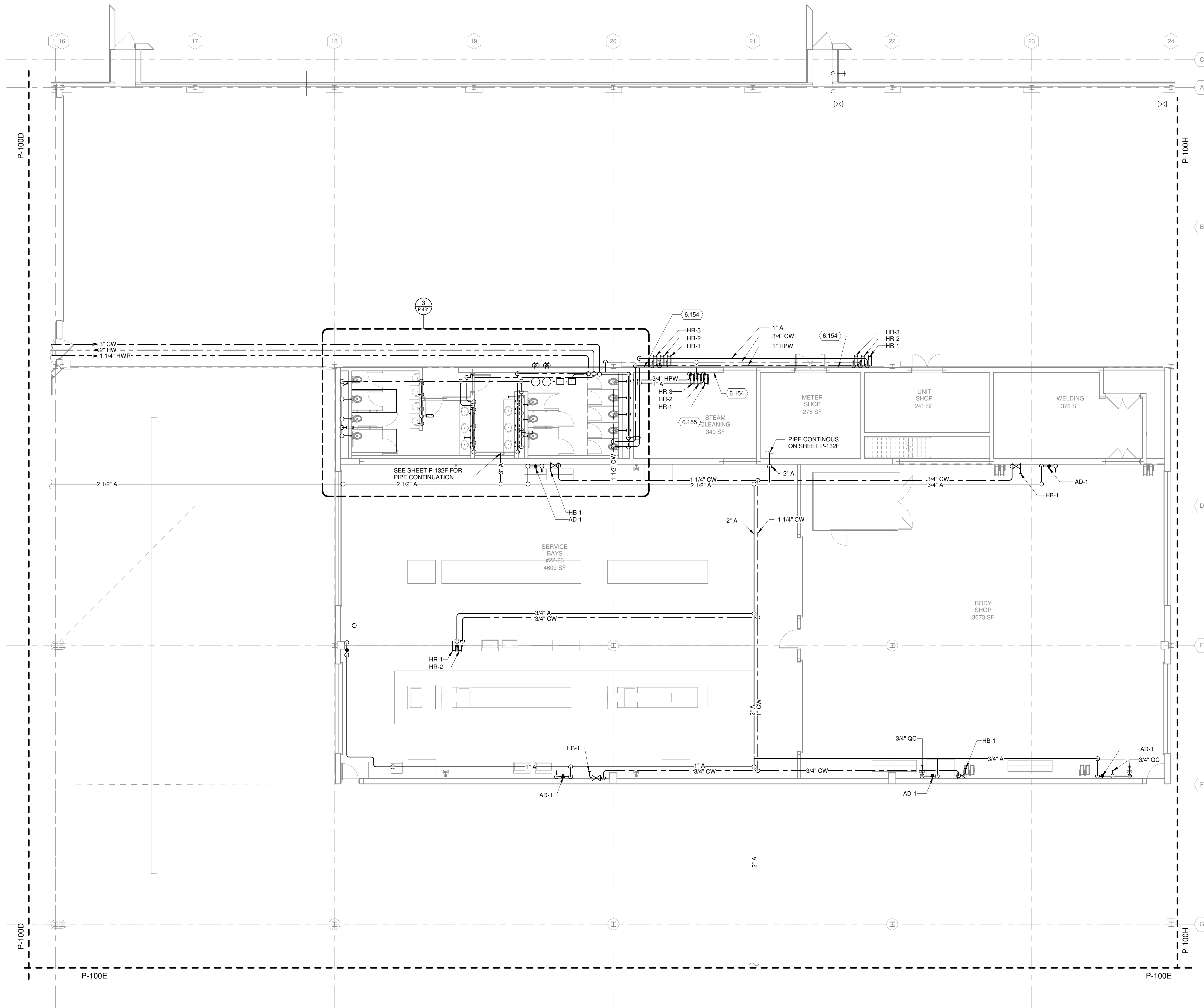
1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
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**FIRST FLOOR - AREA F - ALTERNATE BID #1**

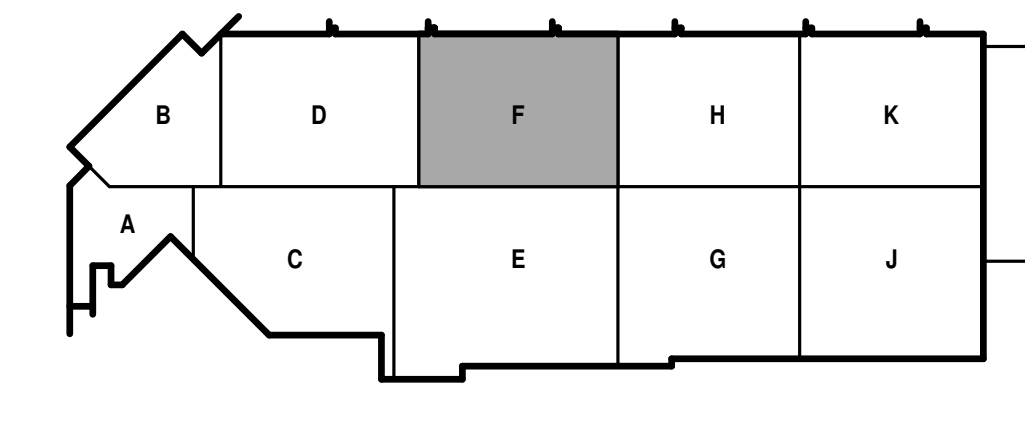
1. SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

**KEYED NOTES**

- 6.154 PROVIDE REMOTE HOT/COLD CONTROL AT EACH HPW HOSE REEL.
- 6.155 COORDINATE WITH OWNER THE LOCATION OF THE SOAP DISPENSING CONTAINER.



TRUE PLAN NORTH NORTH  
**1** FIRST FLOOR SUPPLY PIPING PLAN - AREA F  
1/8" = 1'-0"



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SHEET CONTENTS  
FIRST FLOOR  
SUPPLY PLAN - AREA F

SHEET NO.:

**P-131F**

**GENERAL NOTES**

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

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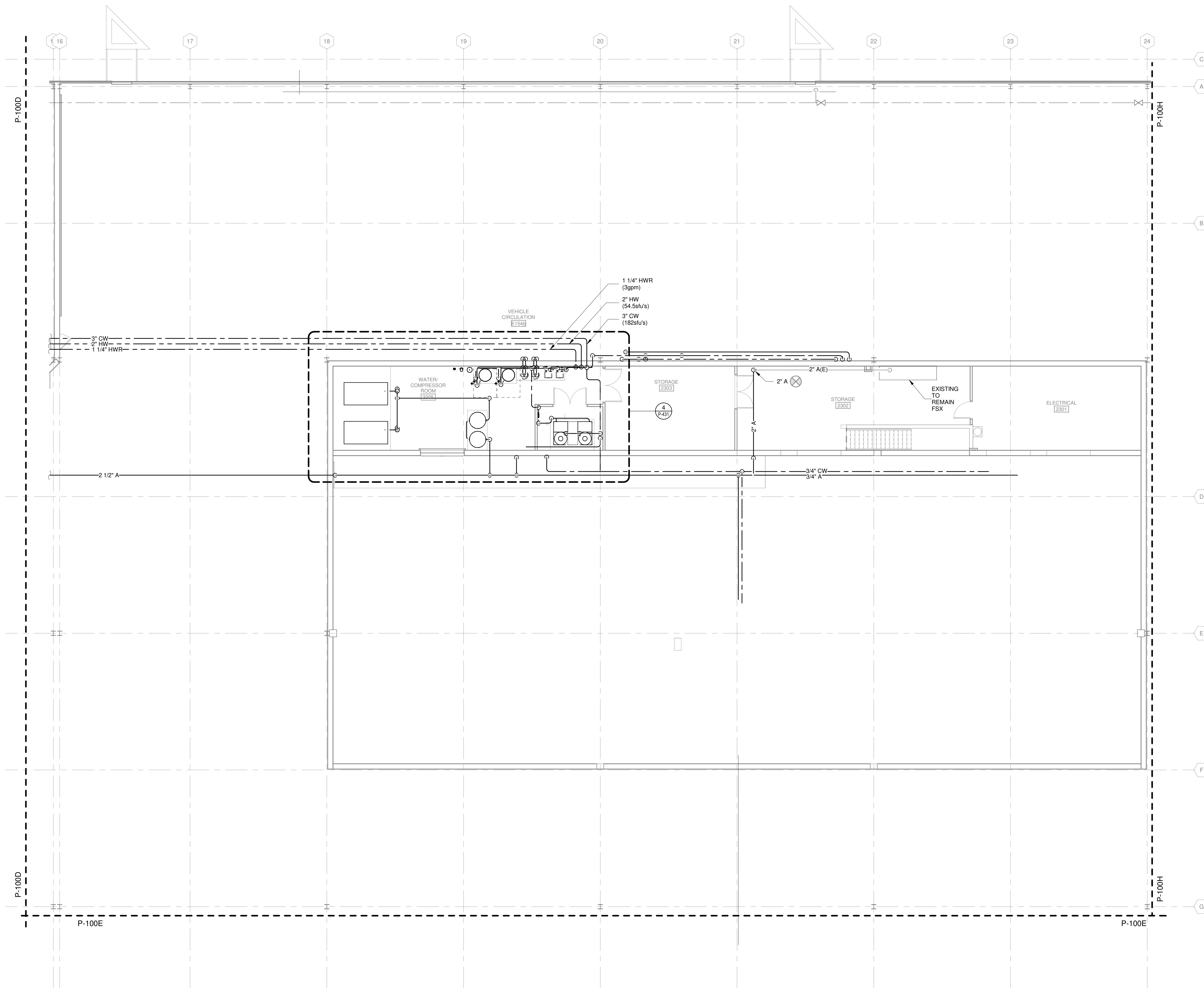
ISSUED  
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CONTRACT NO.: 899  
M&H NO.: 4593500-190896.03  
DATE: April 8, 2021  
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DRAWN BY: JET  
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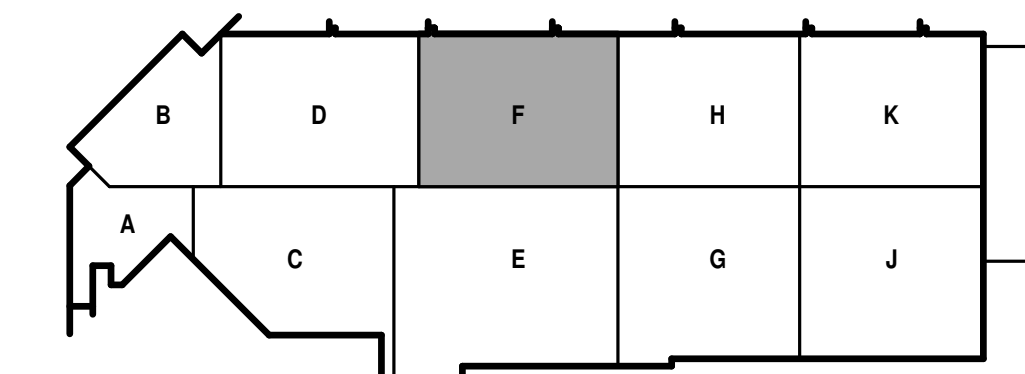
SHEET CONTENTS  
SECOND FLOOR - MAINTENANCE B SUPPLY PIPING PLAN

SHEET NO.:

**P-132F**



TRUE PLAN  
NORTH NORTH  
**1 SECOND FLOOR SUPPLY PIPING - AREA F**  
1/8" = 1'-0"



KEY PLAN





CITY OF MADISON  
METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS  
1101 EAST WASHINGTON AVE.  
MADISON, WI 53703

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SHEET CONTENTS  
ENLARGED PLANS -  
DRAIN AND VENT

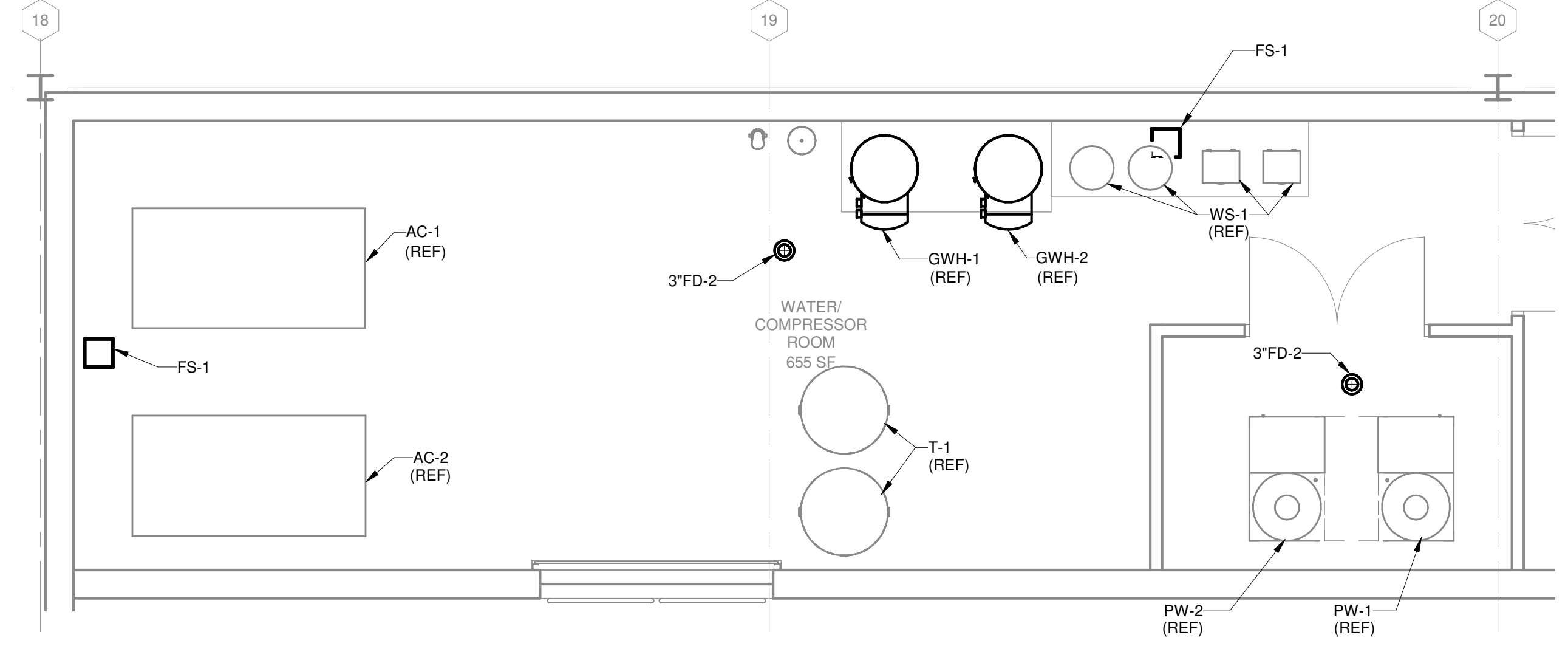
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**GENERAL NOTES**

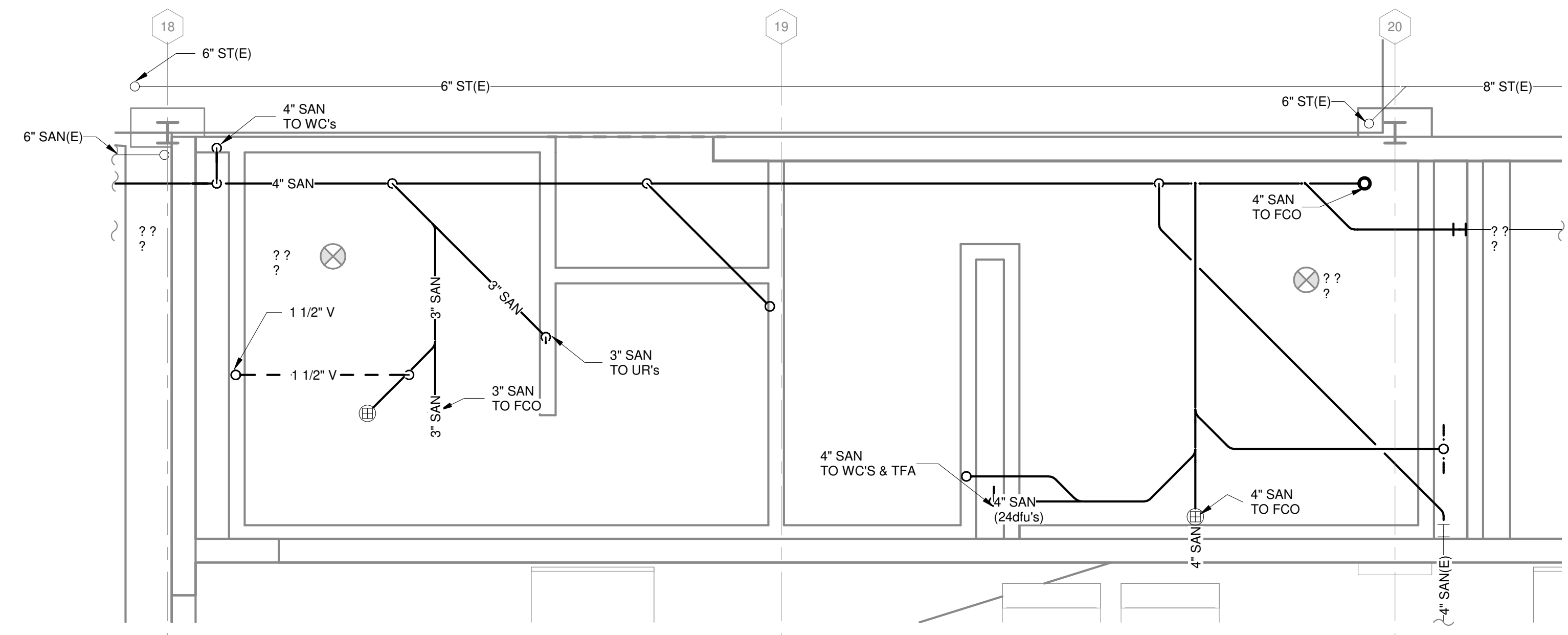
- REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
- REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
- REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

**FIRST FLOOR - AREA F - ALTERNATE BID #1**

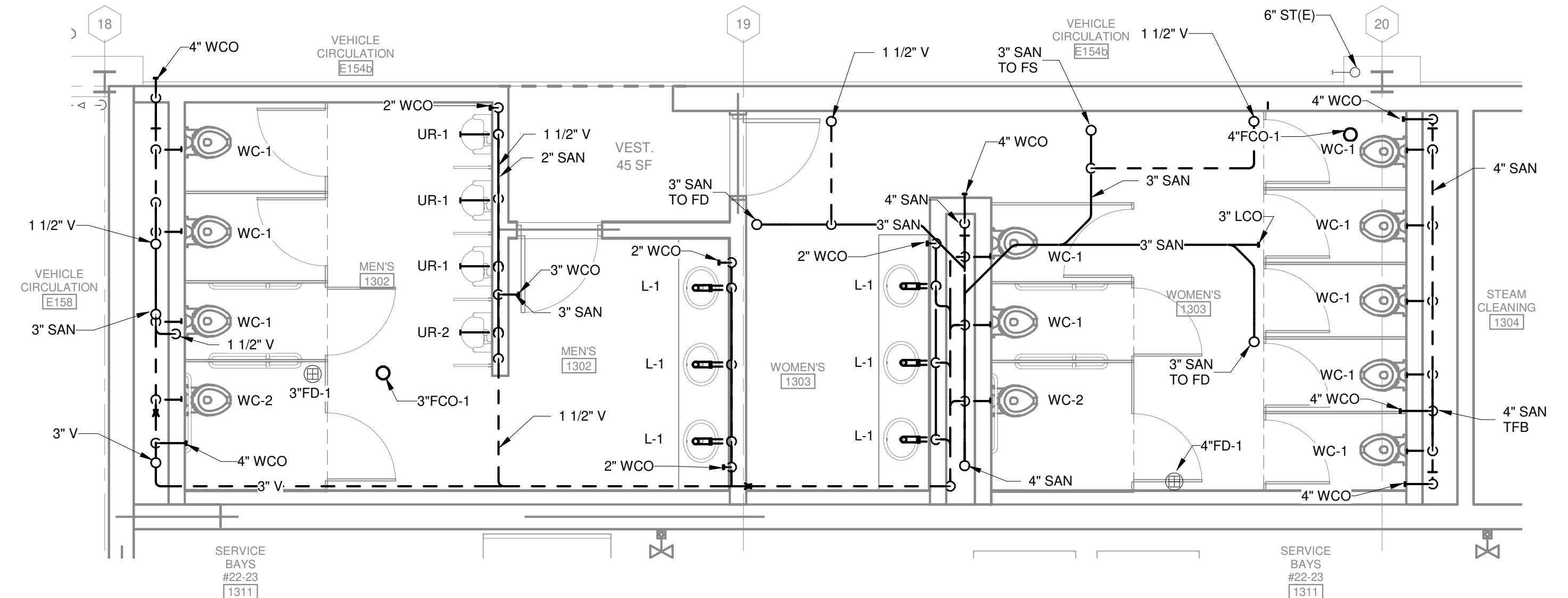
- SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.



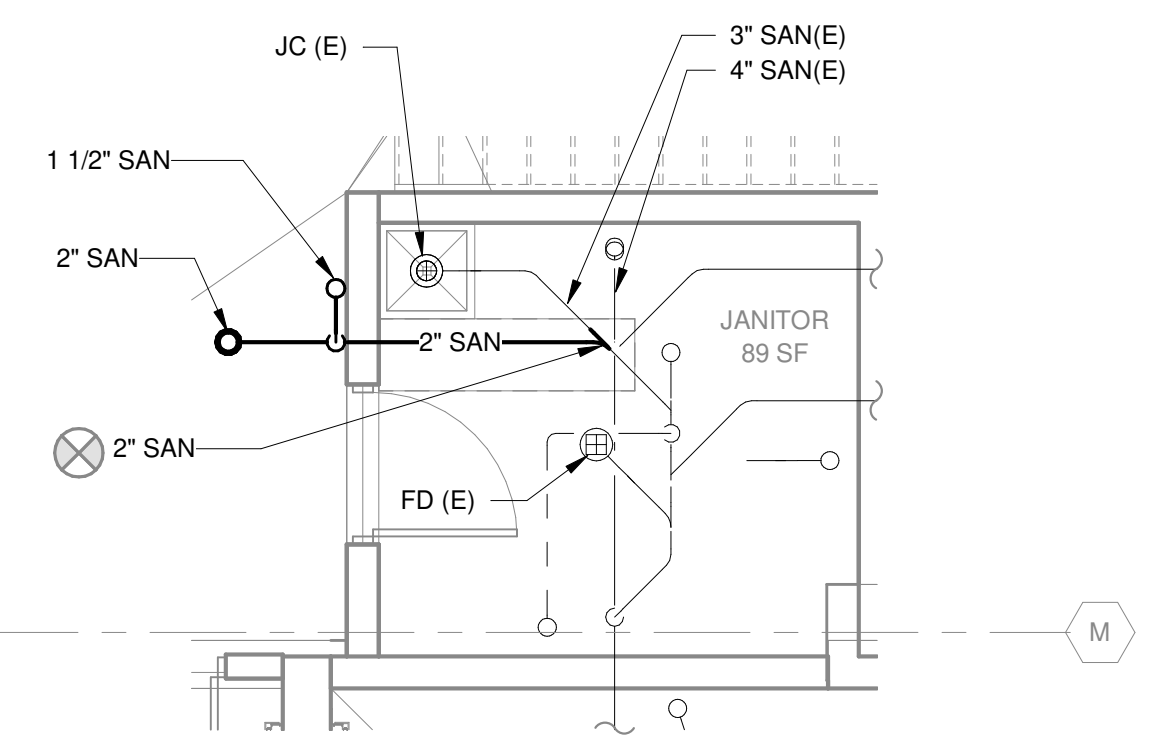
TRUE PLAN NORTH NORTH  
**SECOND FLOOR DRAIN AND VENT PLAN  
AREA F - ENLARGED WATER COMPRESSOR ROOM**  
1/4" = 1'-0"



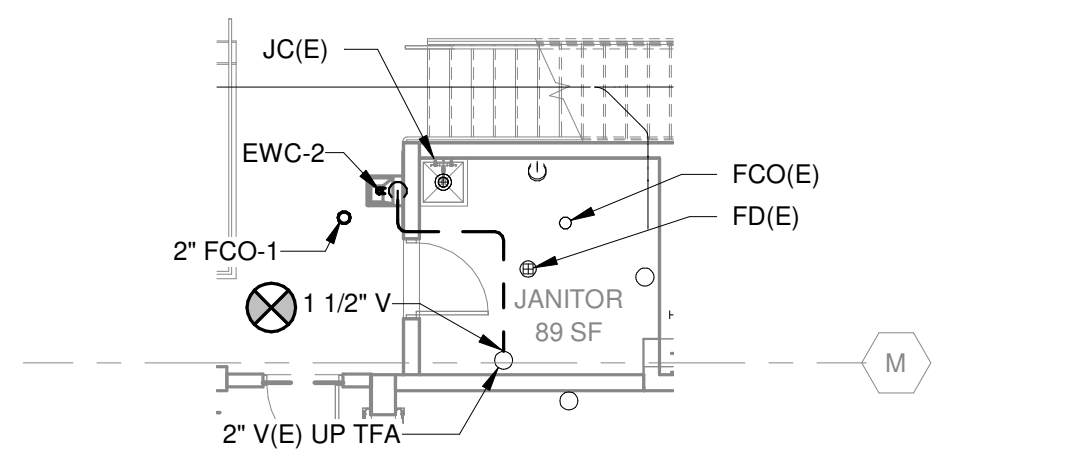
TRUE PLAN NORTH NORTH  
**UNDERGROUND DRAIN AND VENT PLAN  
AREA F - ENLARGED BATHROOMS**  
1/4" = 1'-0"



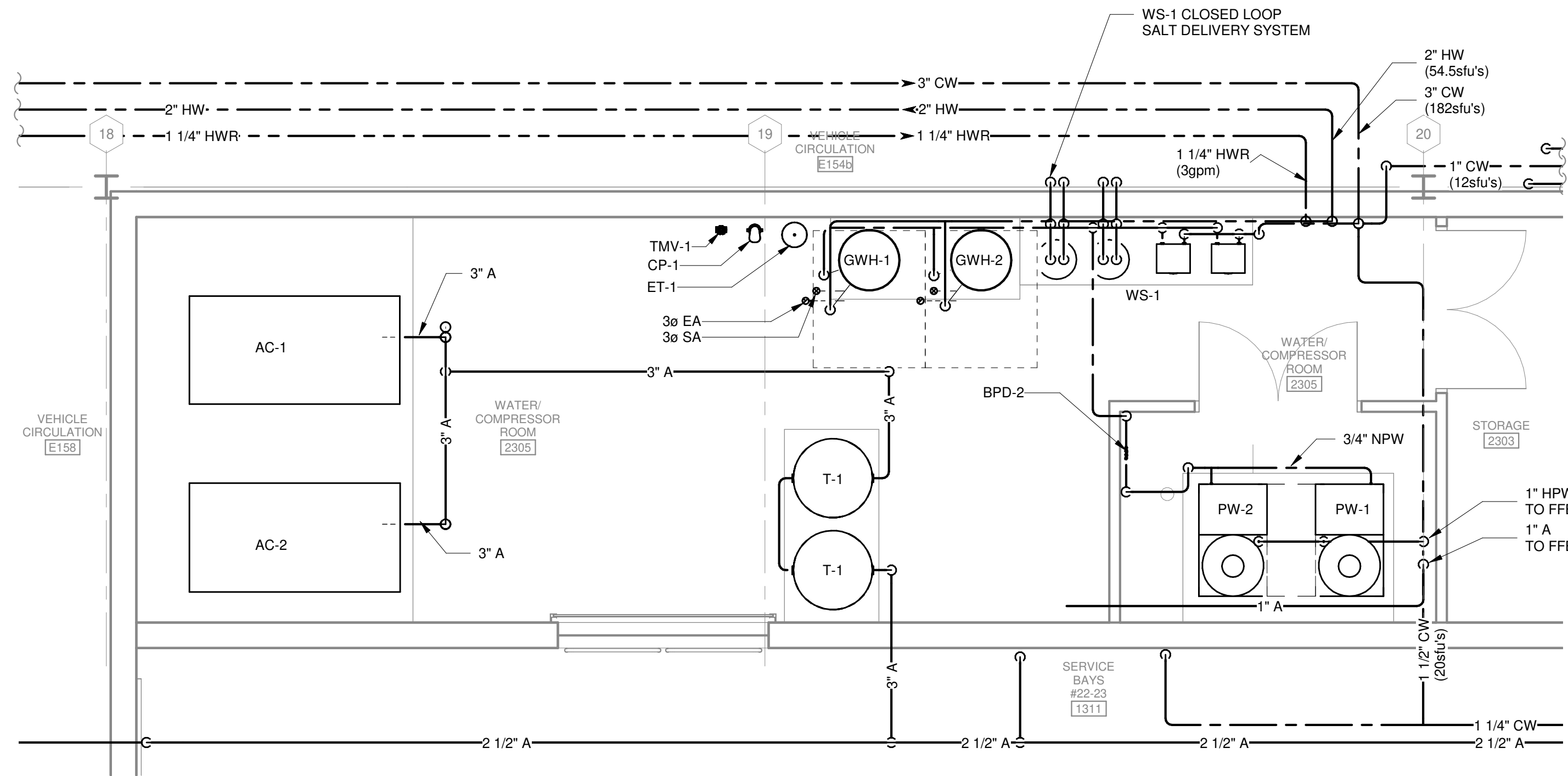
TRUE PLAN NORTH NORTH  
**ABOVEGROUND DRAIN AND VENT PLAN  
AREA F - ENLARGED BATHROOMS**  
1/4" = 1'-0"



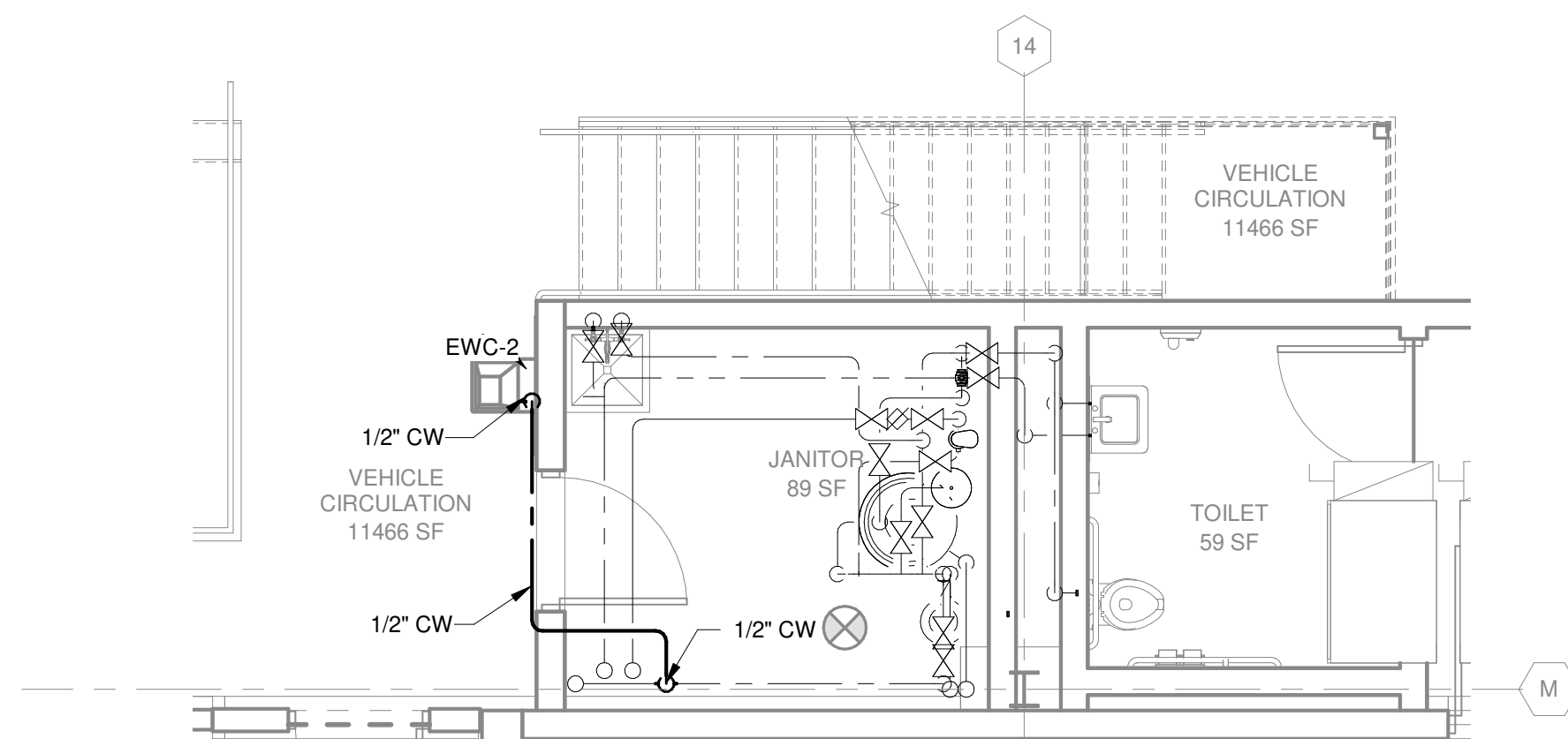
TRUE PLAN NORTH NORTH  
**UNDERGROUND DRAIN AND VENT PLAN  
AREA C - ENLARGED EWC**  
1/4" = 1'-0"



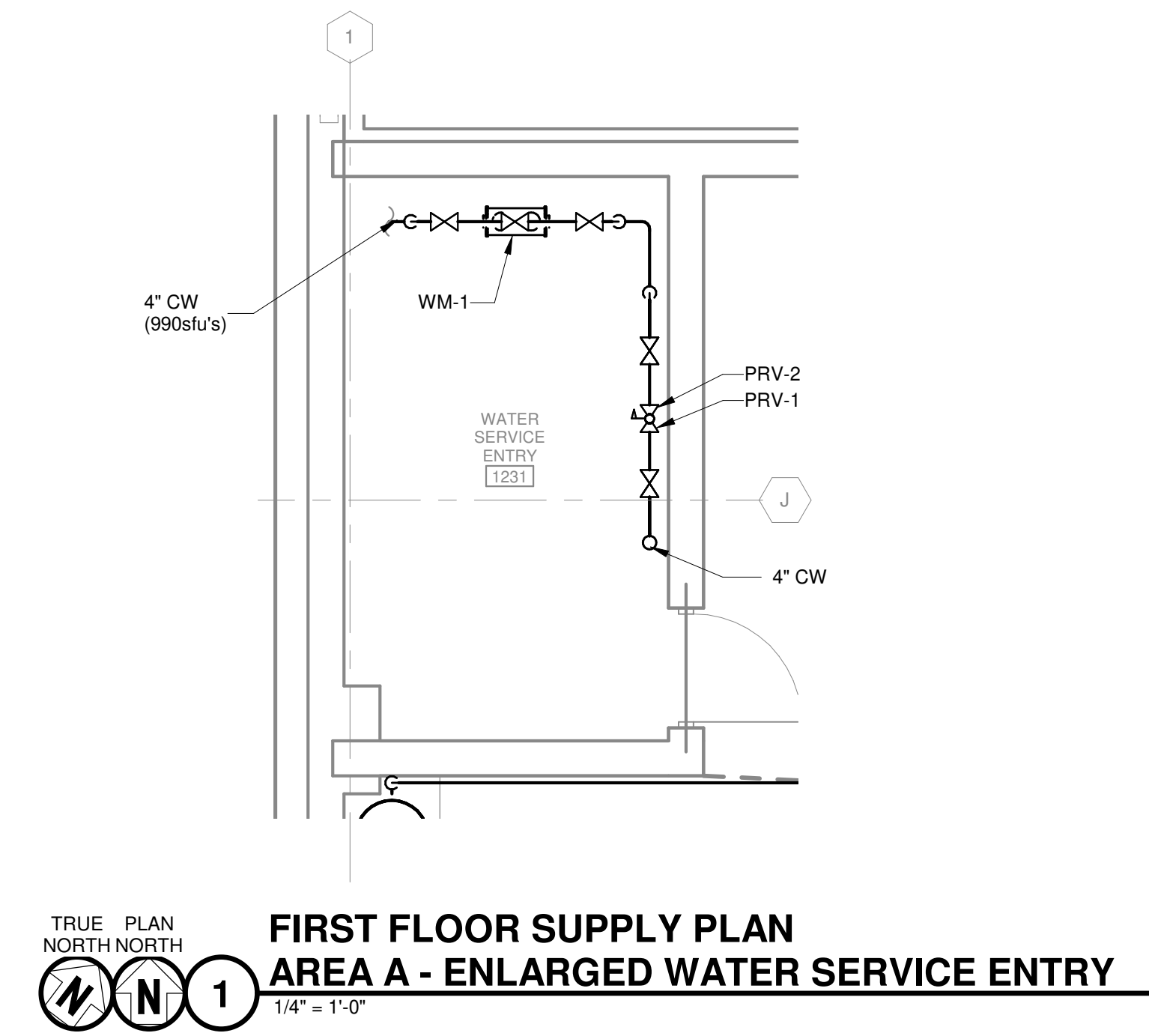
TRUE PLAN NORTH NORTH  
**ABOVEGROUND DRAIN AND VENT PLAN  
AREA C - ENLARGED EWC**  
1/8" = 1'-0"



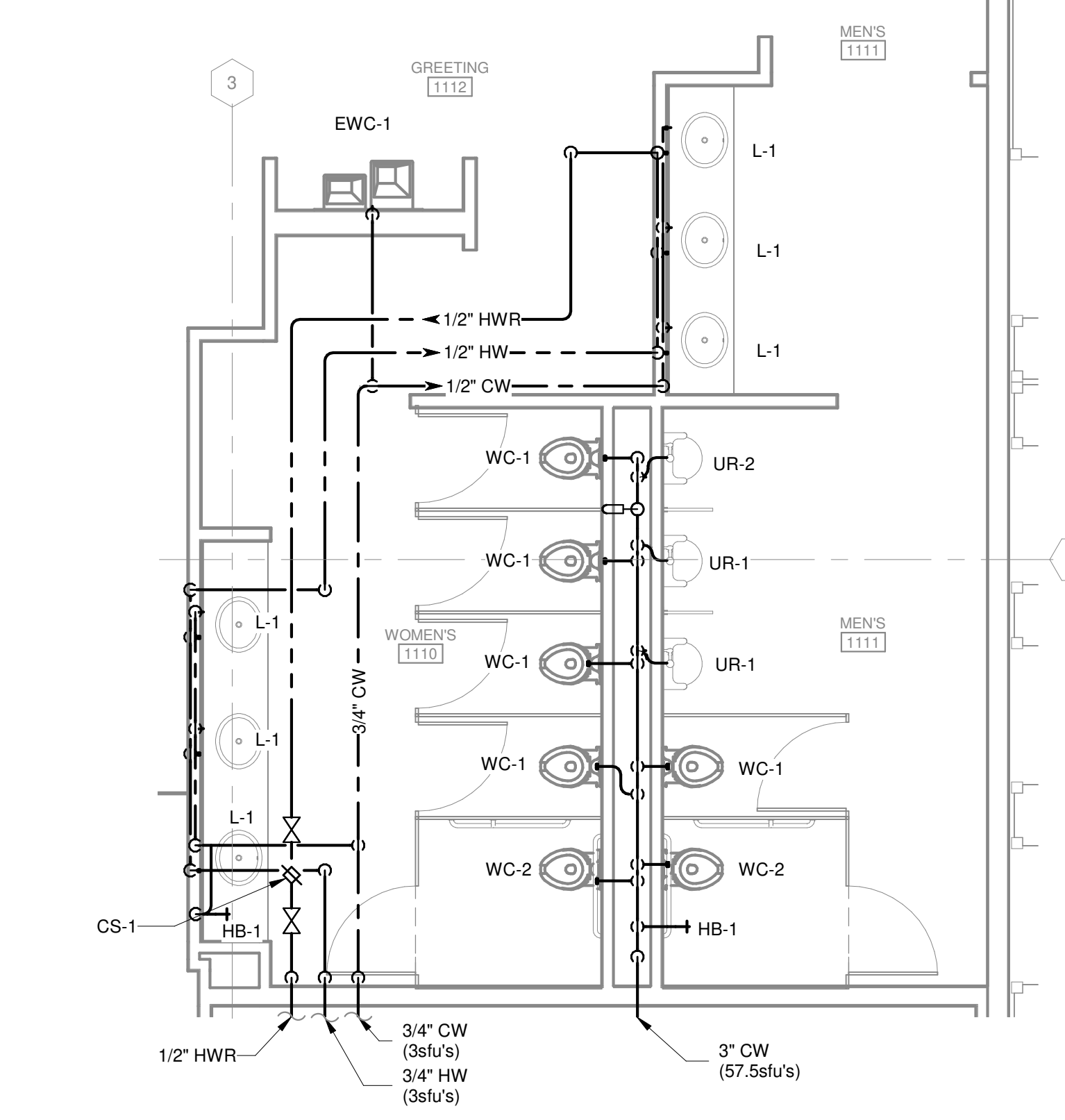
TRUE PLAN NORTH NORTH  
**SECOND FLOOR DRAIN AND VENT PLAN  
AREA F - ENLARGED WATER COMPRESSOR ROOM**  
1/4" = 1'-0"



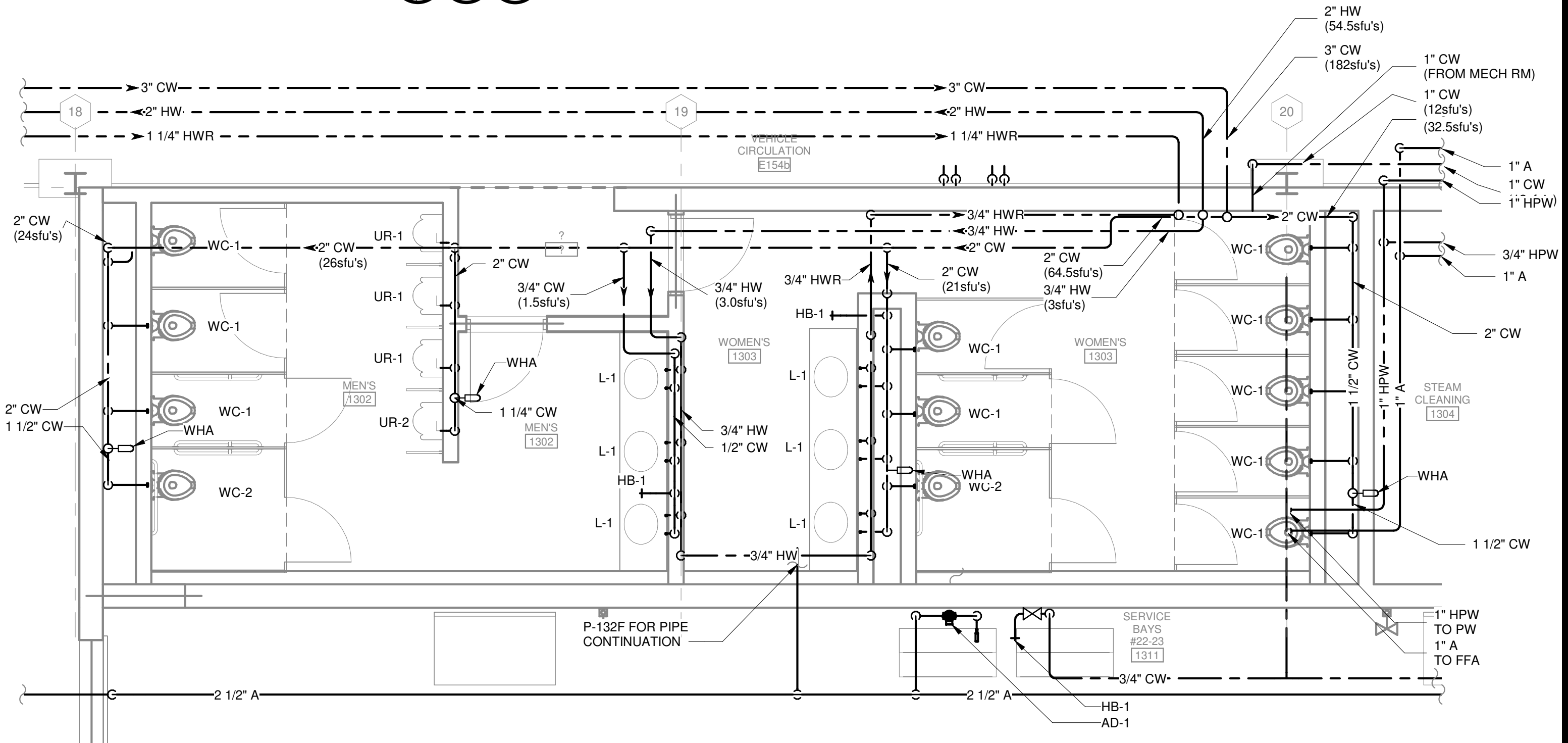
TRUE PLAN NORTH NORTH  
**ABOVEGROUND SUPPLY PLAN  
AREA C - ENLARGED EWC**  
1/4" = 1'-0"



TRUE PLAN NORTH NORTH  
**FIRST FLOOR SUPPLY PLAN  
AREA A - ENLARGED WATER SERVICE ENTRY**  
1/4" = 1'-0"



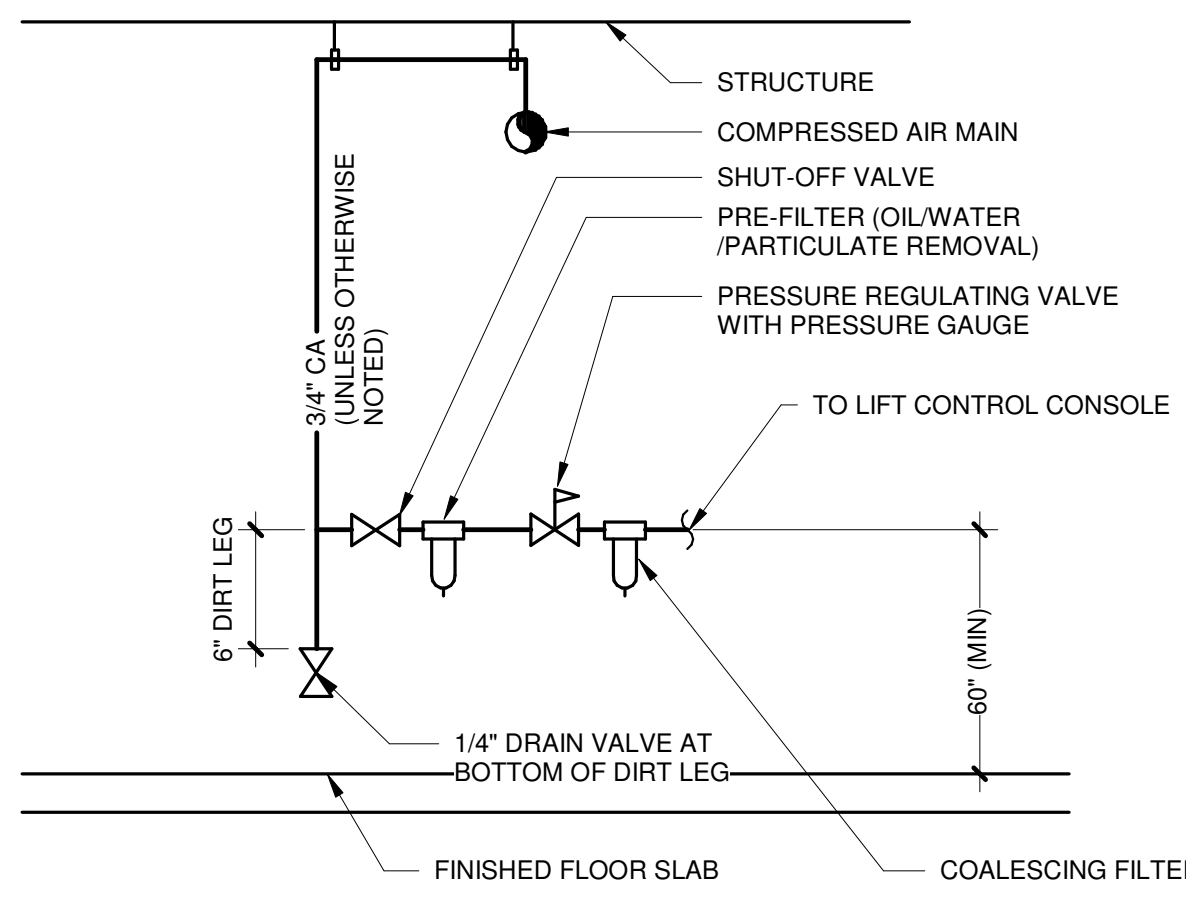
TRUE PLAN NORTH NORTH  
**FIRST FLOOR SUPPLY PLAN  
AREA A - ENLARGED BATHROOM**  
1/4" = 1'-0"



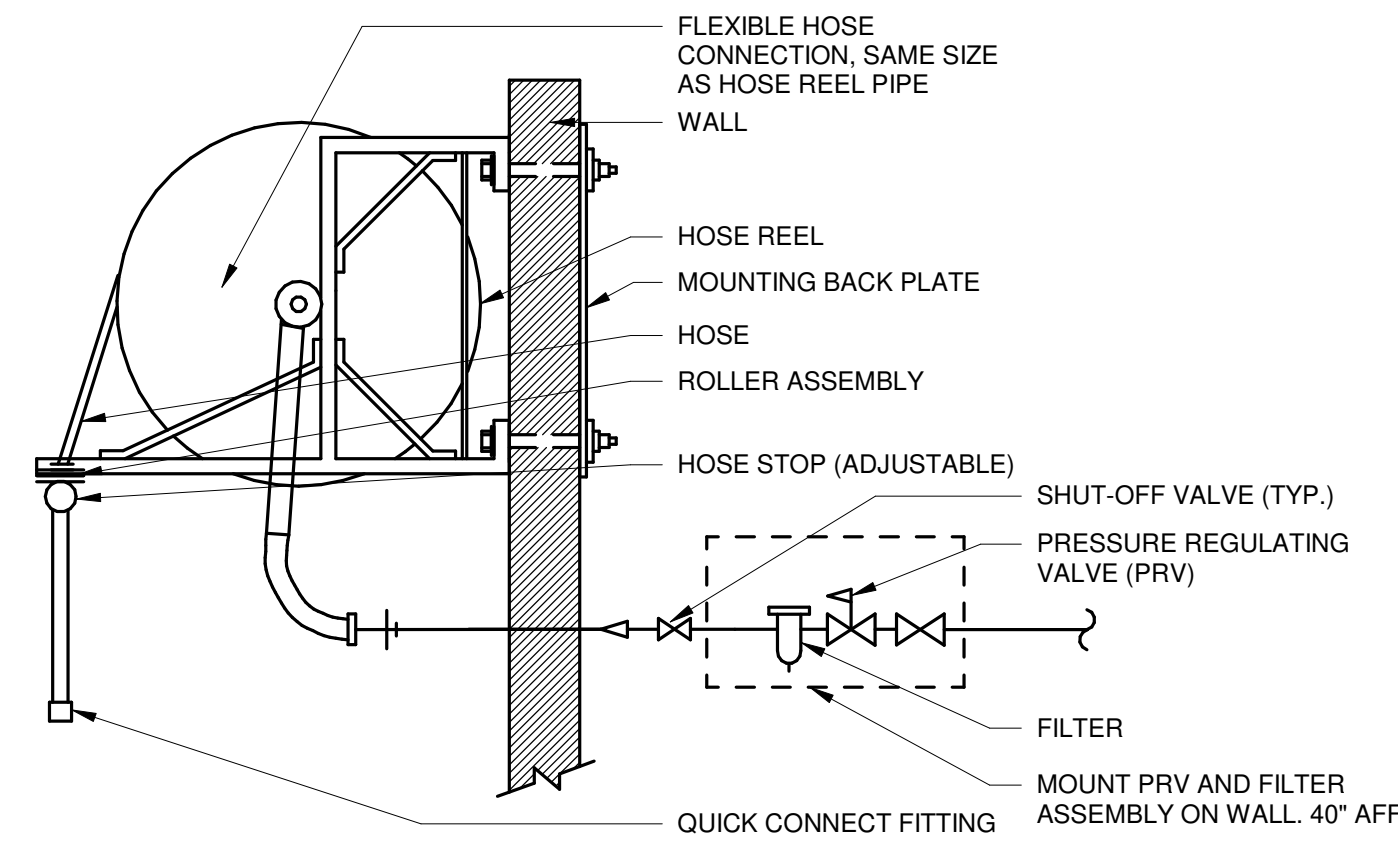
**FIRST FLOOR - AREA F - ALTERNATE BID #1**

- SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK

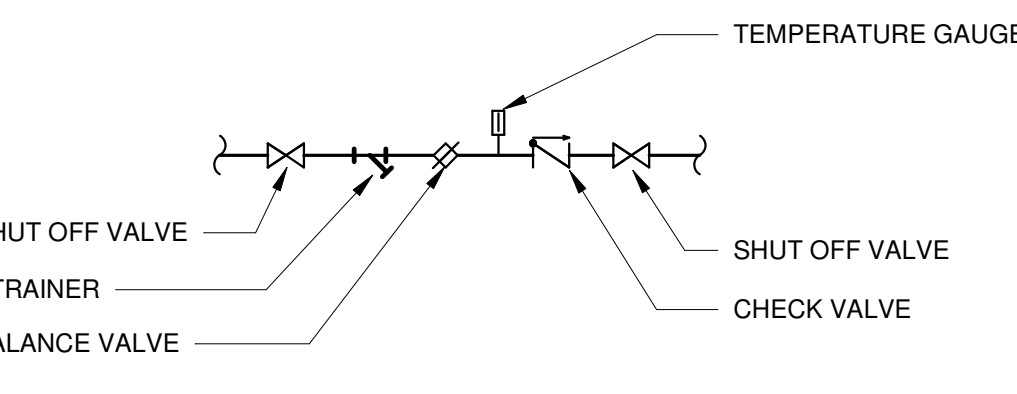
TRUE PLAN NORTH NORTH  
**FIRST FLOOR SUPPLY PLAN  
AREA F - ENLARGED BATHROOM**  
1/4" = 1'-0"



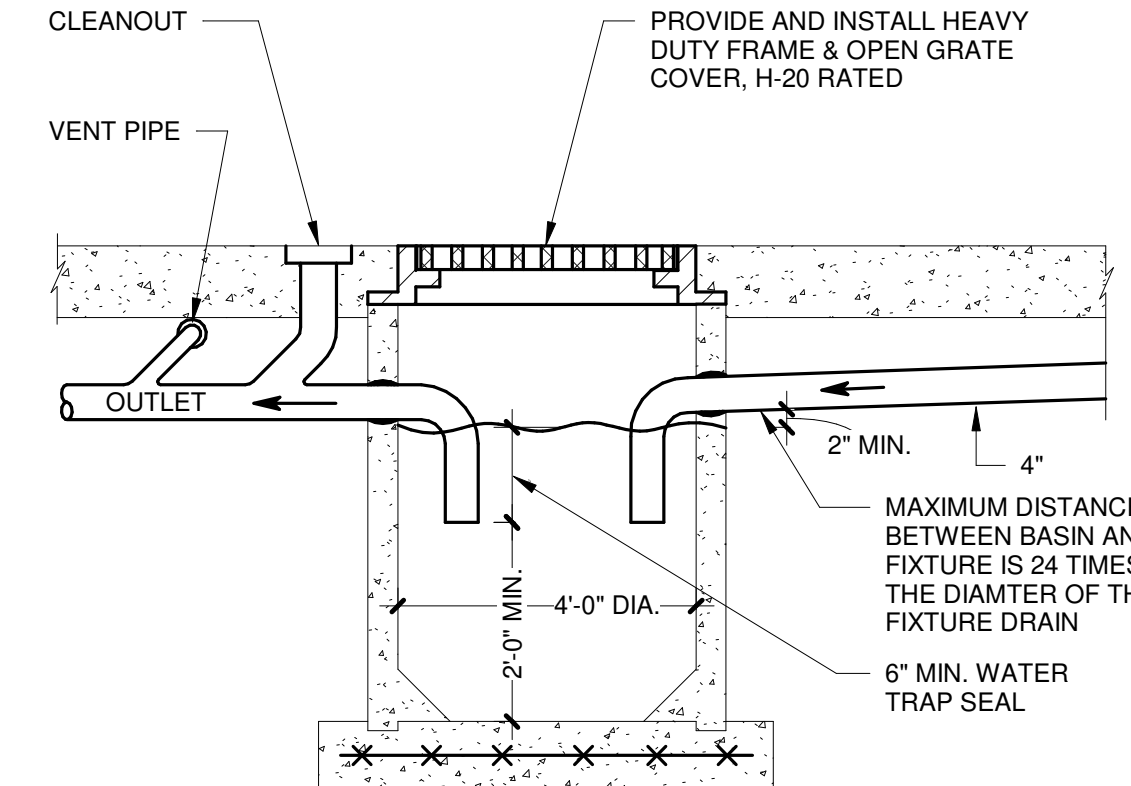
**17 COMPRESSED AIR DROP #2 (AD-2)**  
NO SCALE



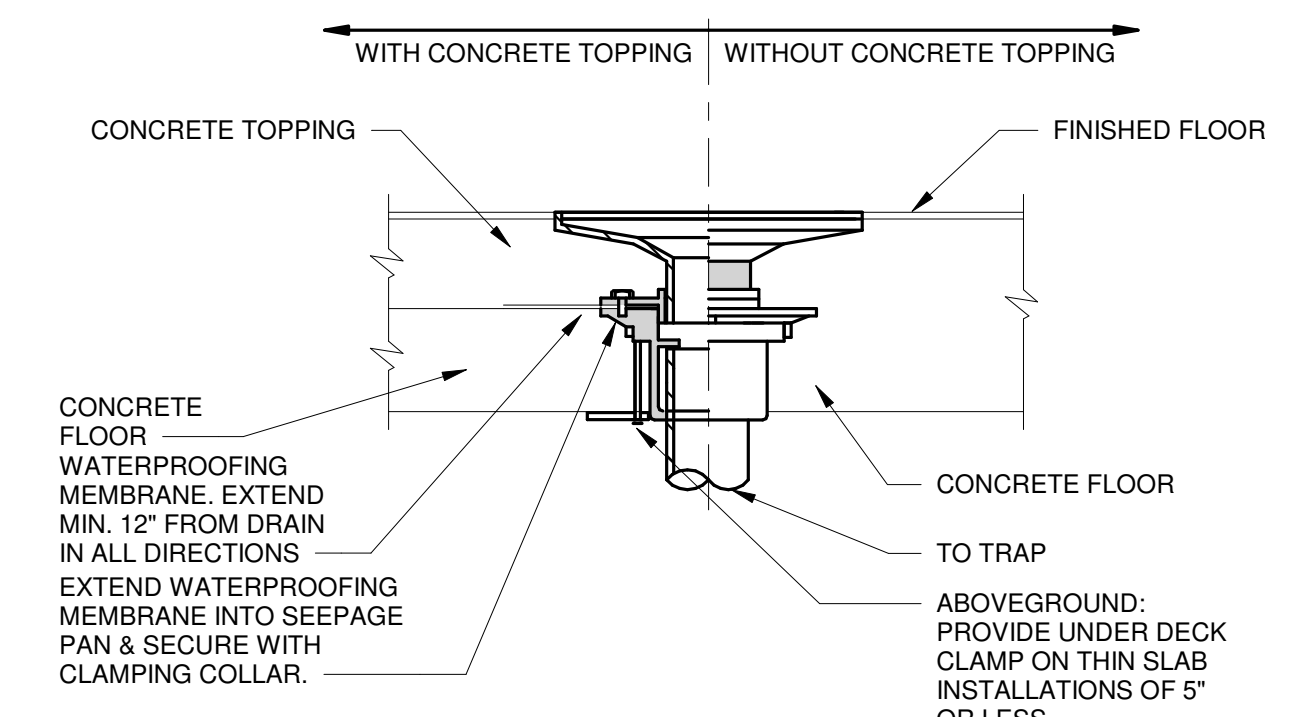
**13 AIR HOSE REEL - WALL MOUNTED (HR-3)**  
NO SCALE



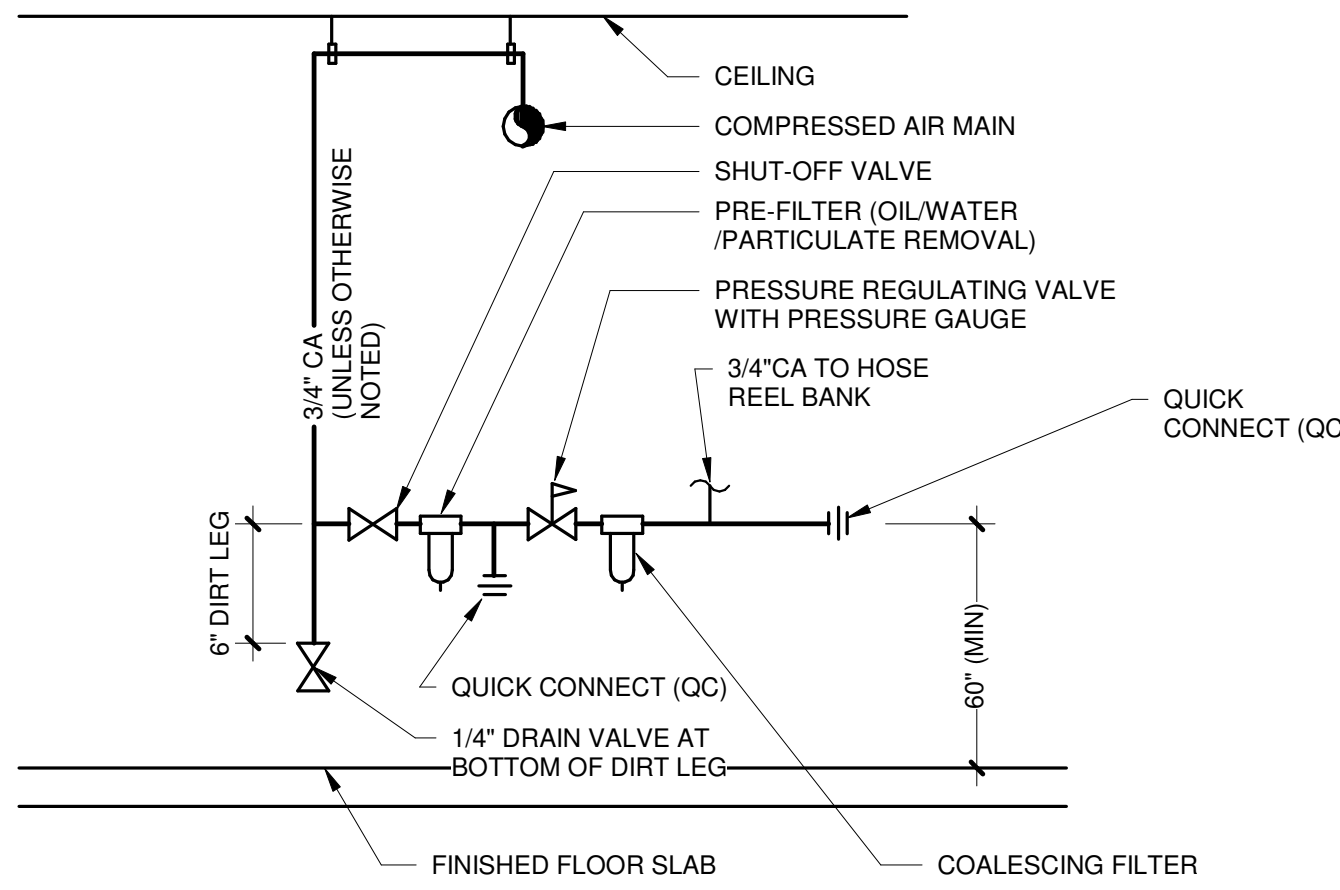
**9 GARAGE CATCH BASIN (CB-1) WITHOUT TRAP**  
NO SCALE



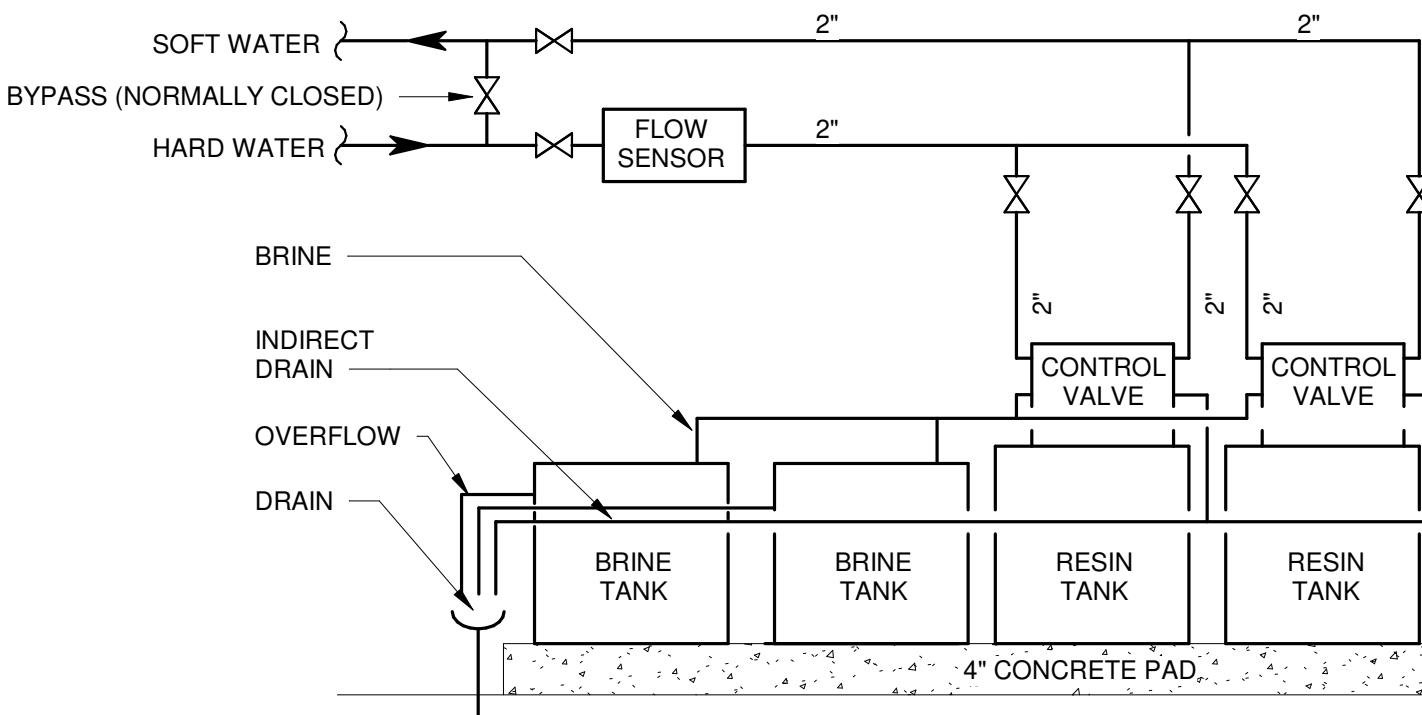
**5 GARAGE CATCH BASIN (CB-1) WITHOUT TRAP**  
NO SCALE



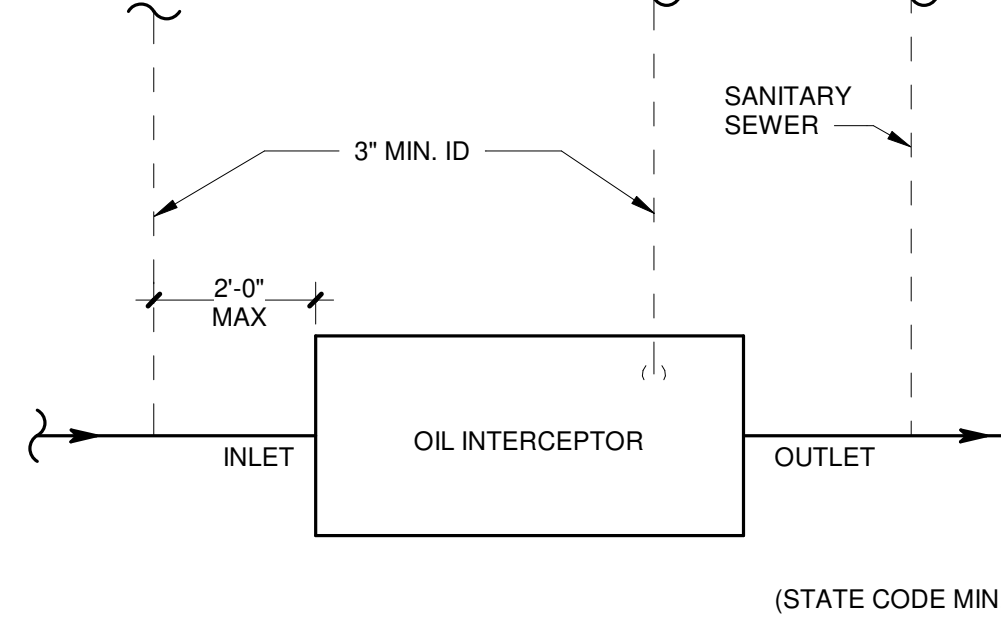
**1 FLOOR DRAIN - CAST IN PLACE**  
NO SCALE



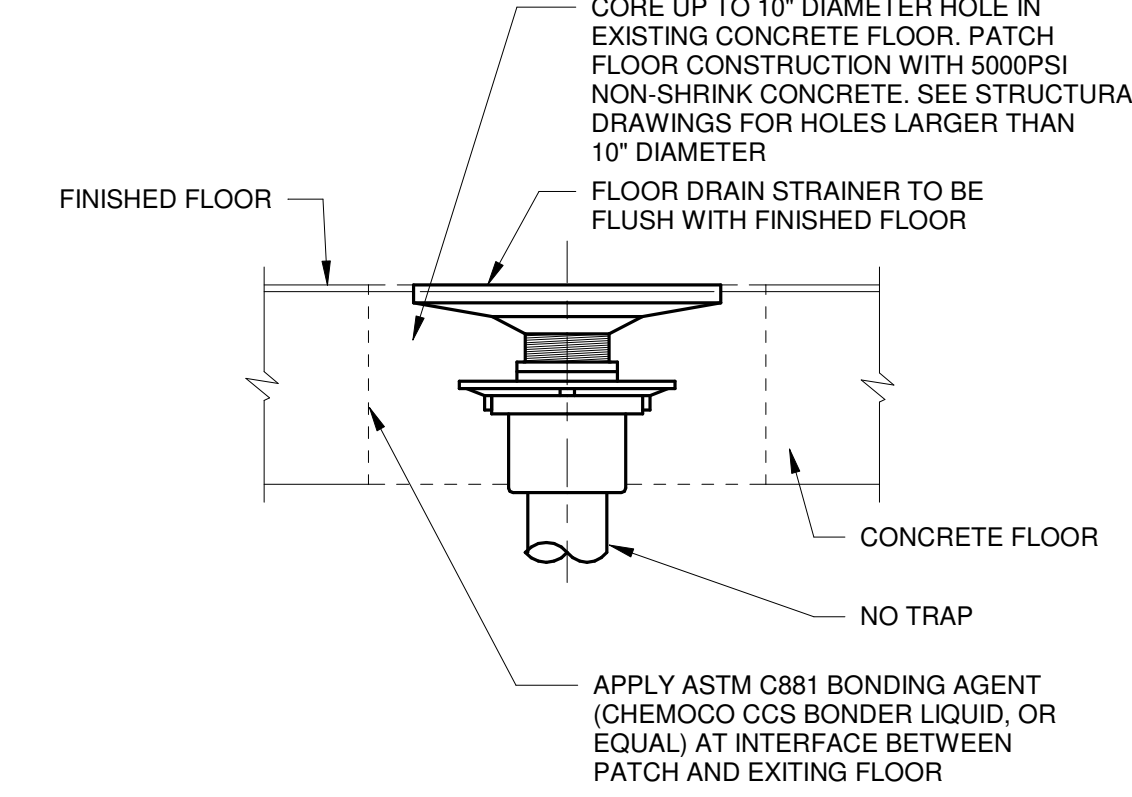
**14 COMPRESSED AIR DROP #1 (AD-1)**  
NO SCALE



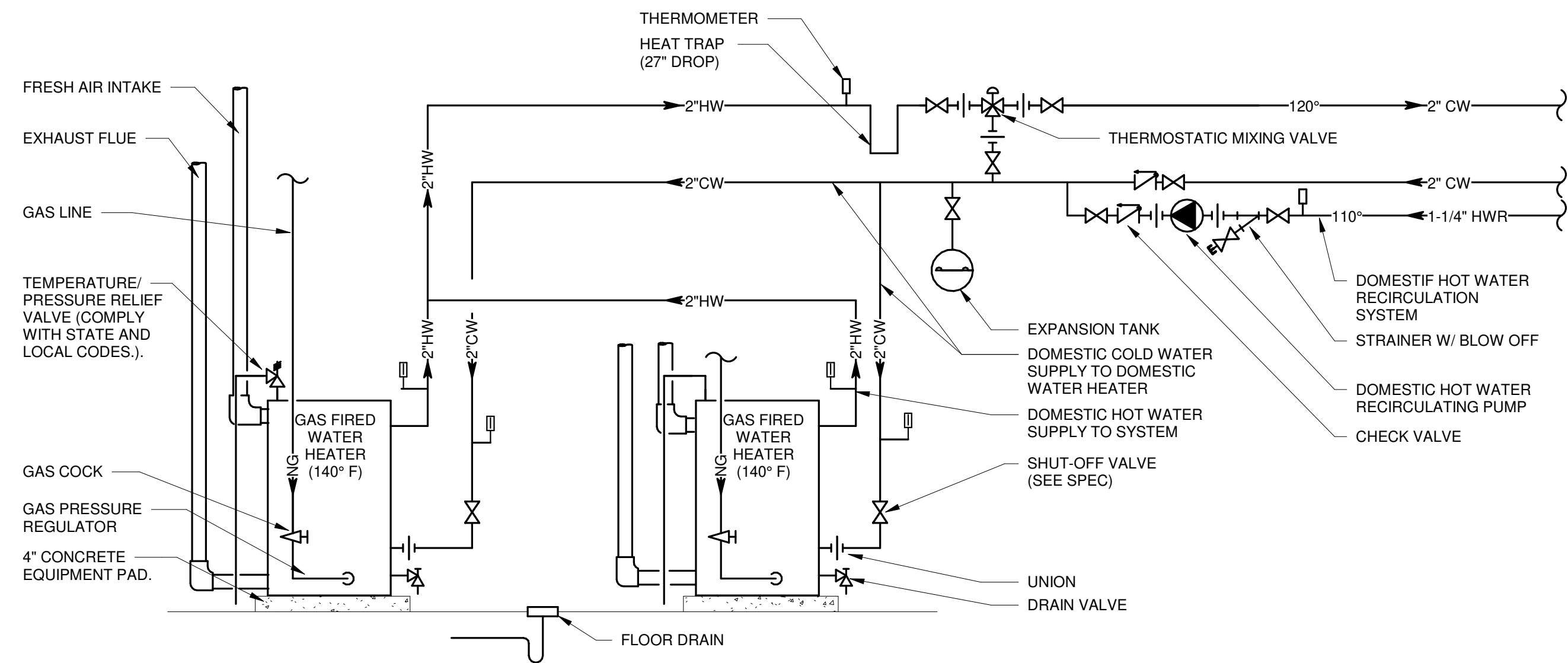
**10 DUPLEX WATER SOFTENER W/REMOTE SALT FILL**  
NO SCALE



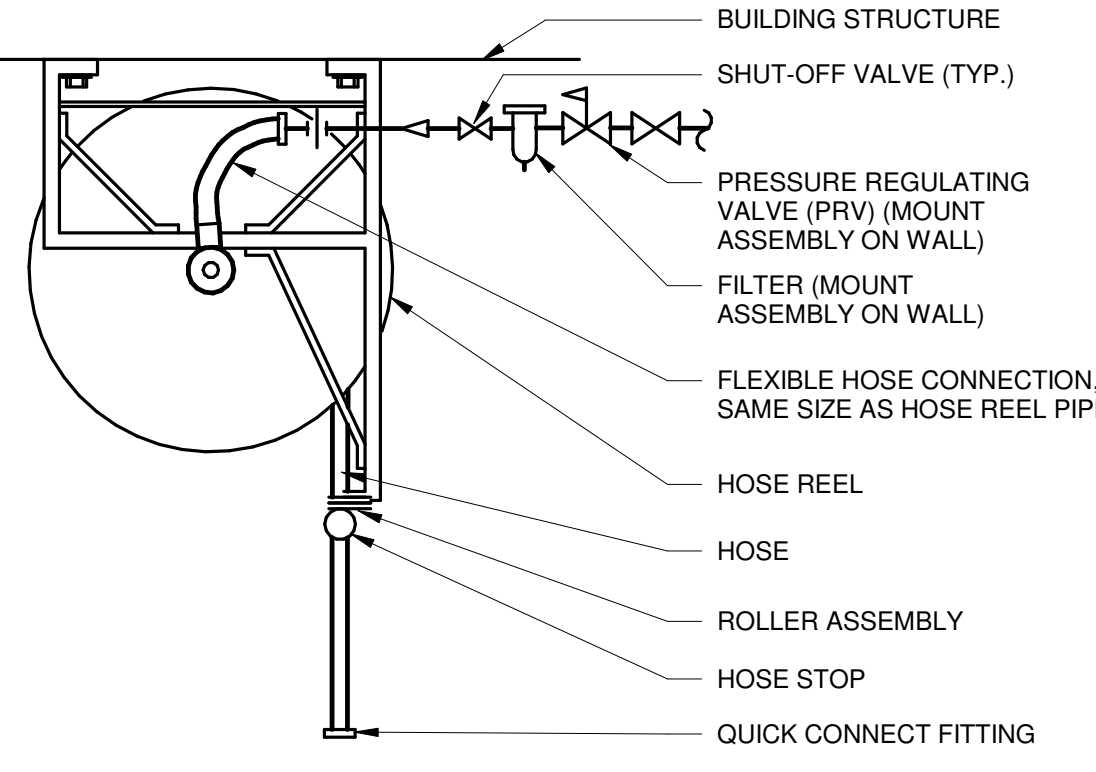
**6 OIL INTERCEPTOR (INT-1)**  
NO SCALE



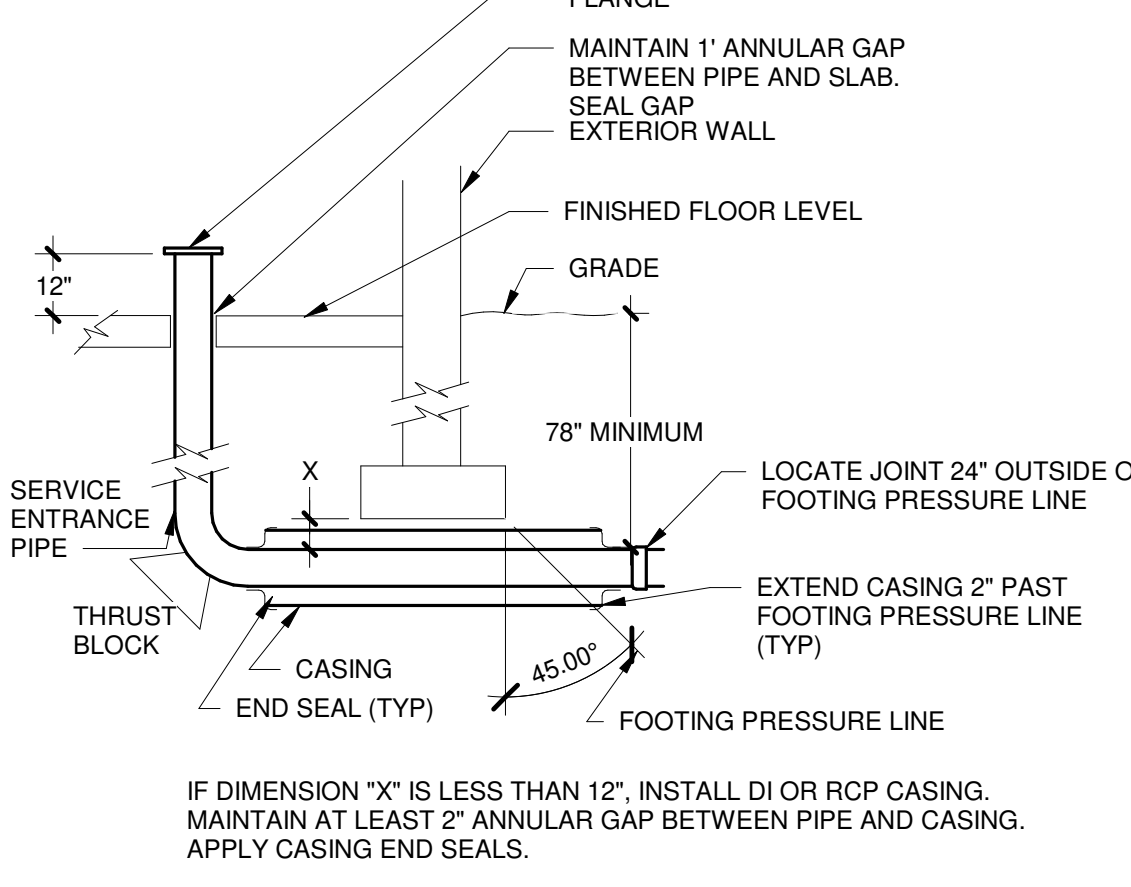
**2 FLOOR DRAIN - CORED FLOOR**  
NO SCALE



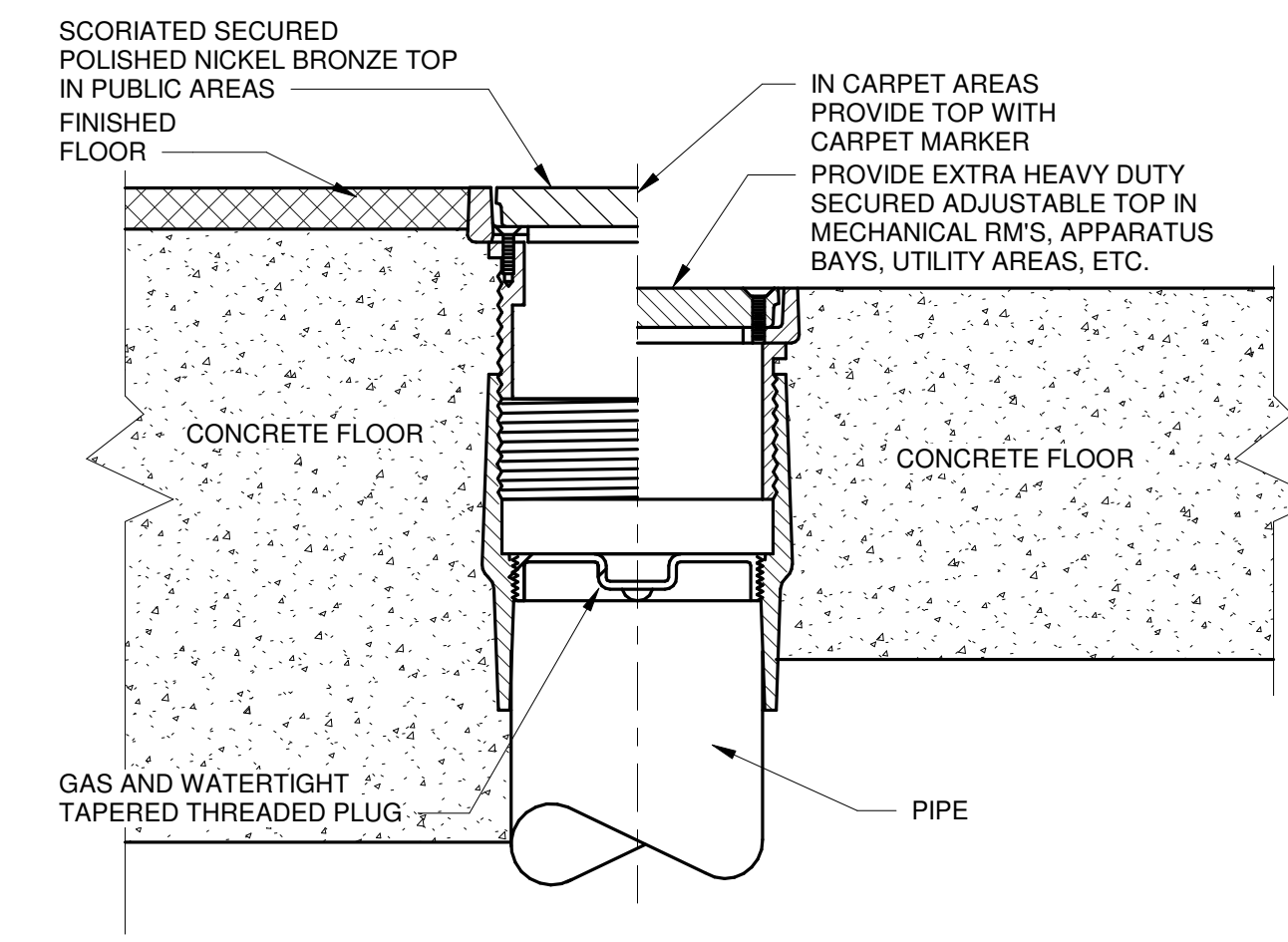
**15 DOMESTIC HOT WATER TANK PIPING SCHEMATIC**  
NO SCALE



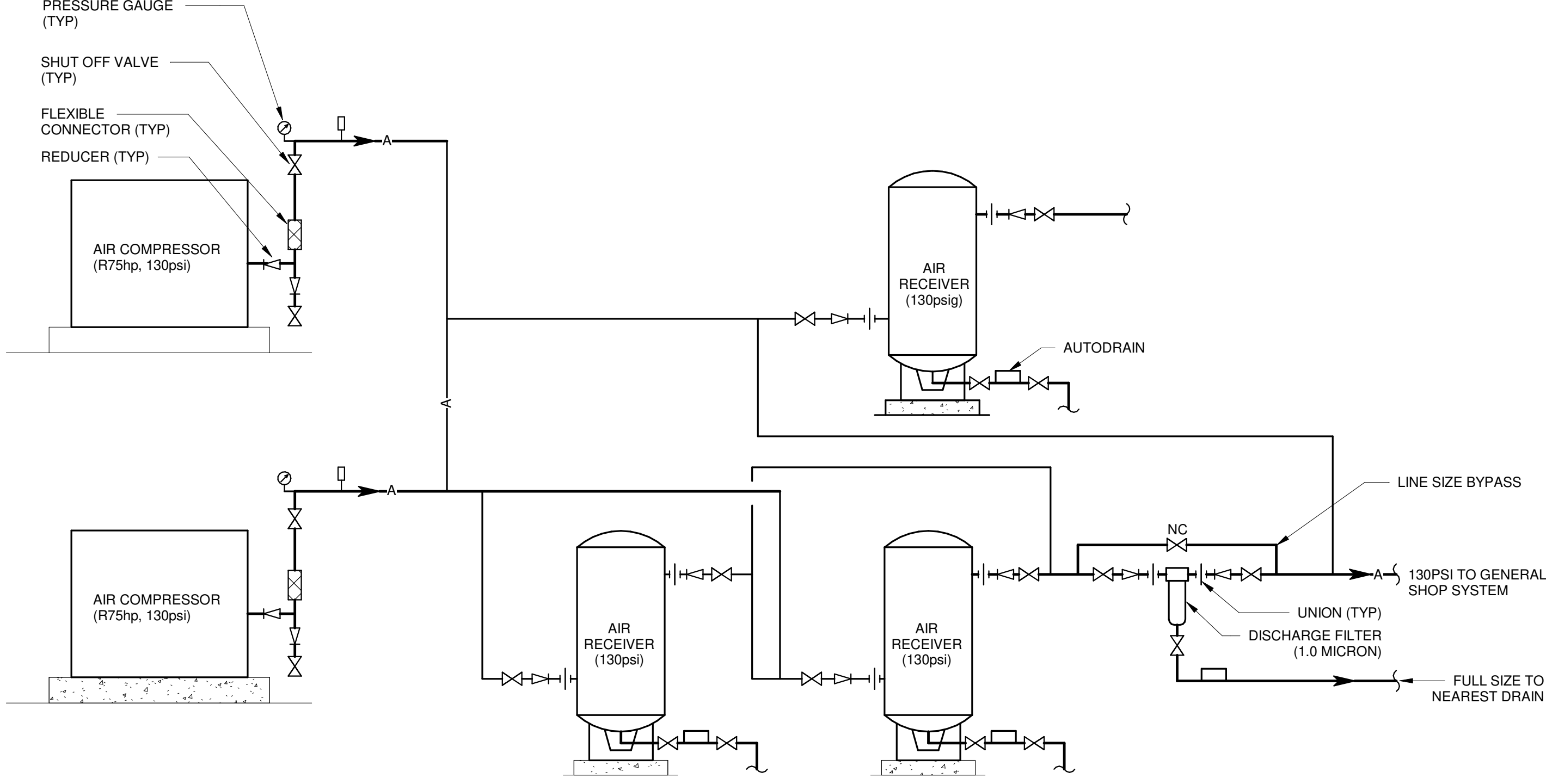
**11 AIR HOSE REEL - CEILING MOUNTED (HR-1)**  
NO SCALE



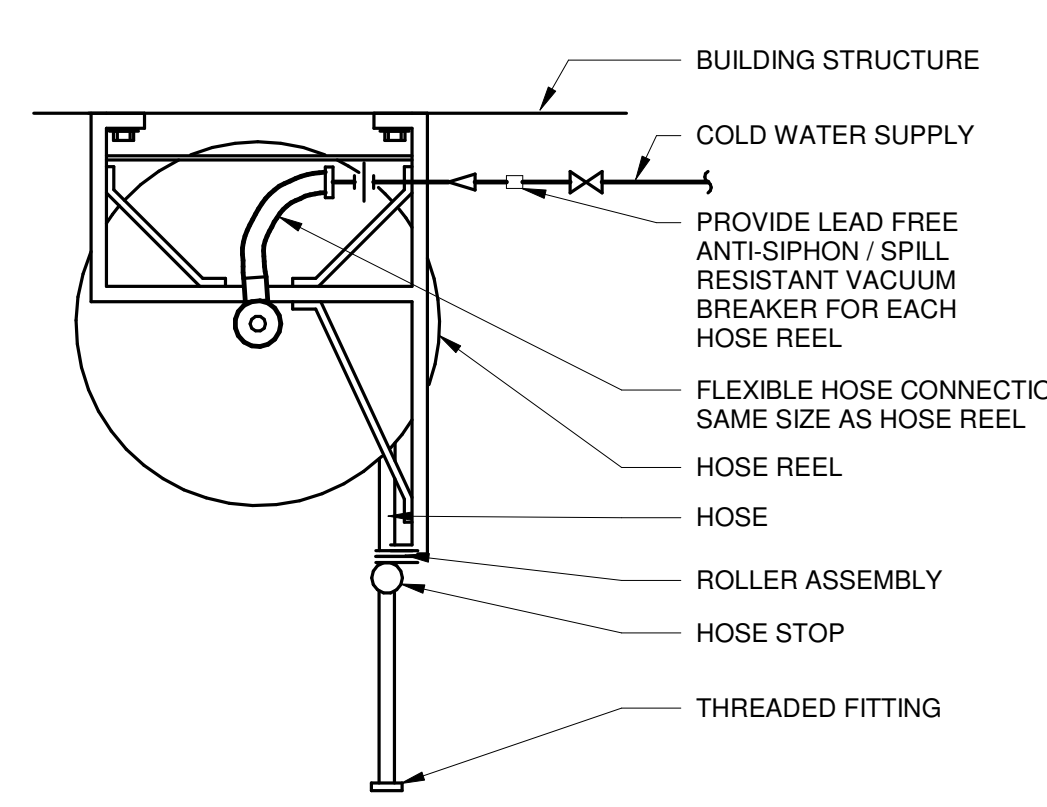
**7 WATER SERVICE ENTRANCE**  
NO SCALE



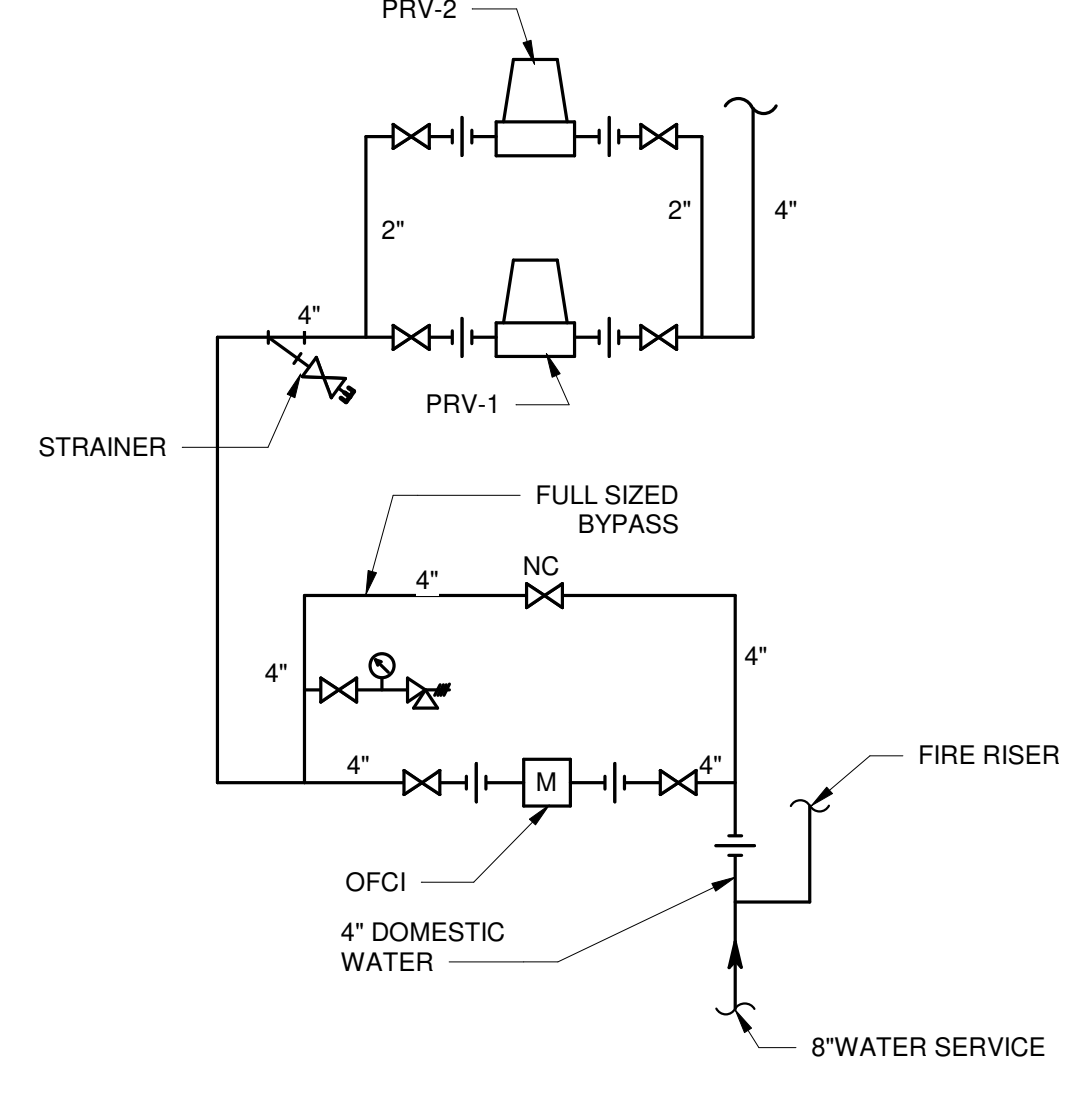
**3 FLOOR CLEANOUT (FCO)**  
NO SCALE



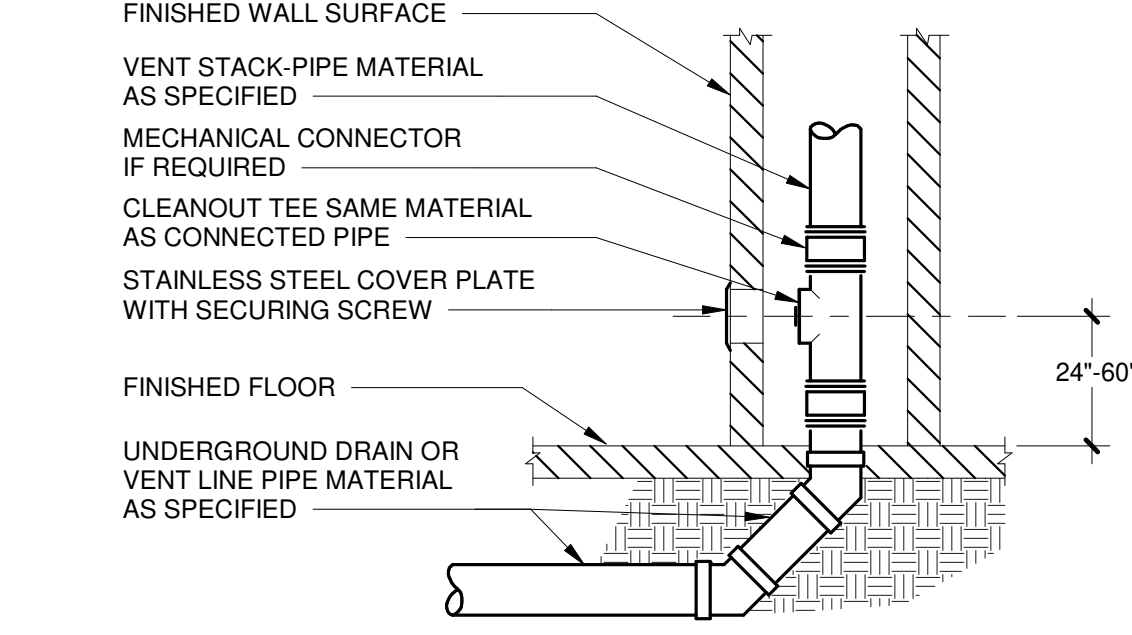
**16 DUPLEX COMPRESSED AIR SYSTEM**  
NO SCALE



**12 WATER HOSE REEL (HR-2) (TRUCK WASH AREA)**  
NO SCALE



**8 WATER METER PIPING**  
NO SCALE



**4 WALL CLEANOUT (WCO)**  
NO SCALE



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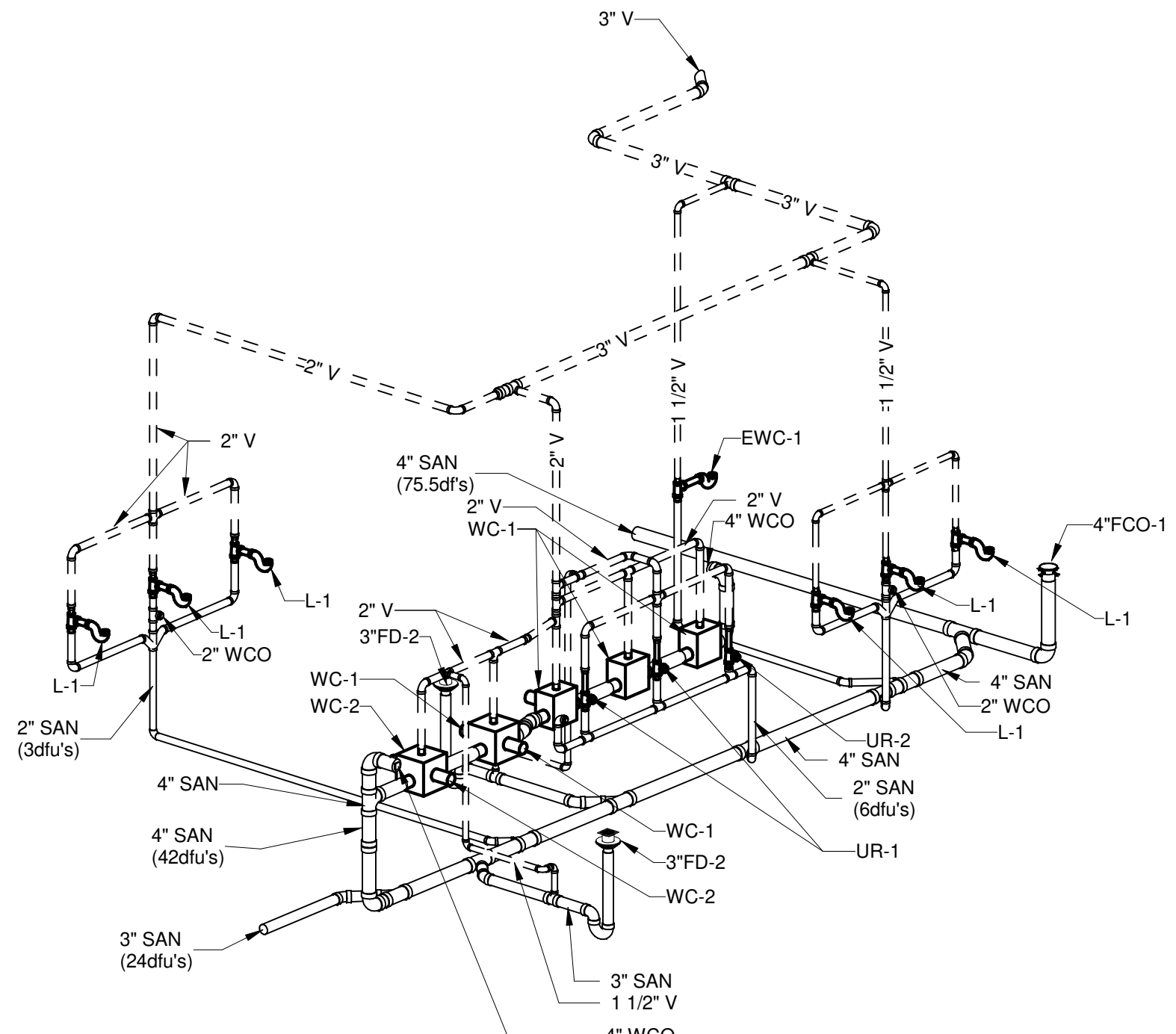
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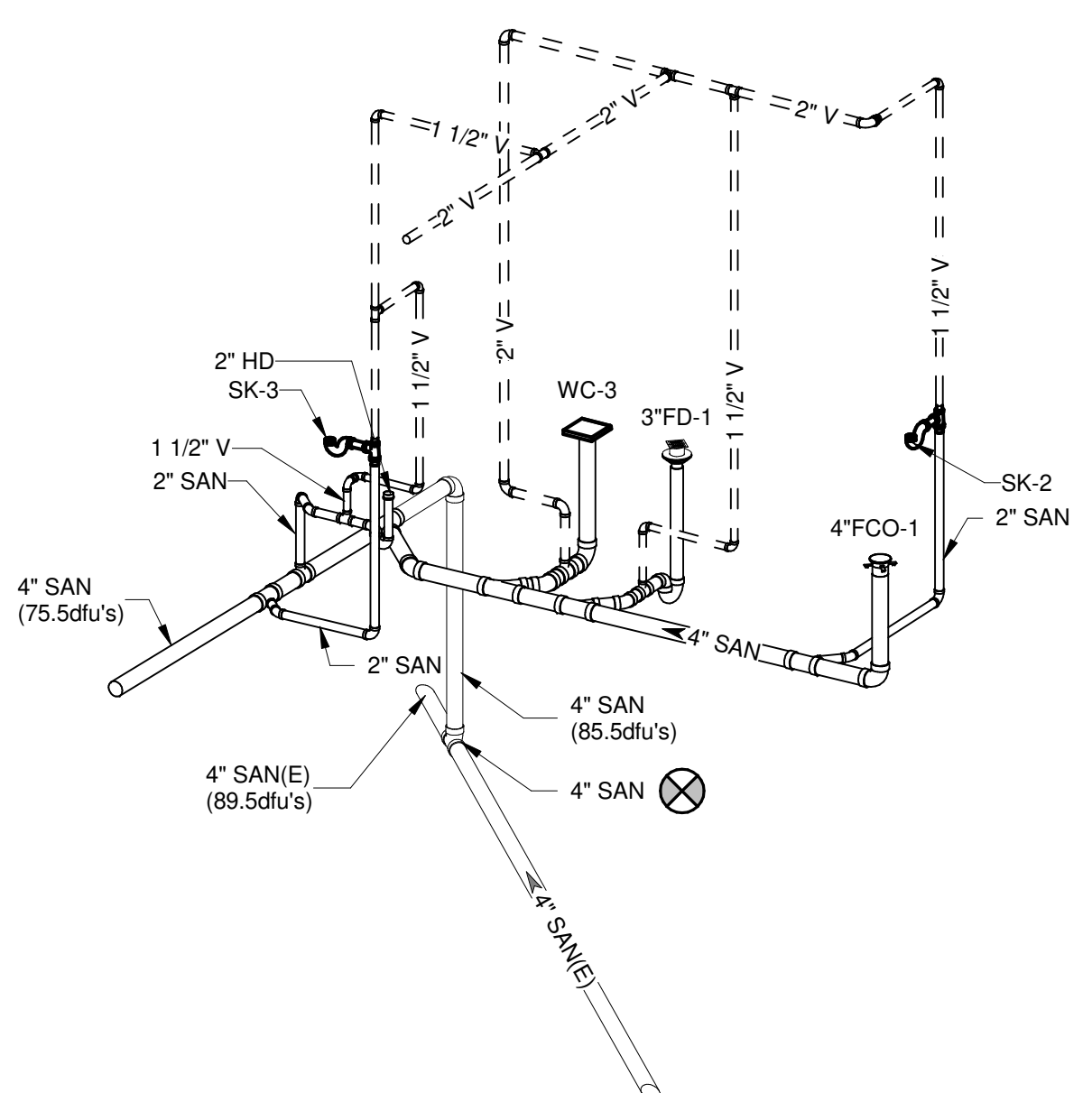
SHEET CONTENTS  
DRAIN AND VENT  
ISOMETRIC PLAN

SHEET NO.:

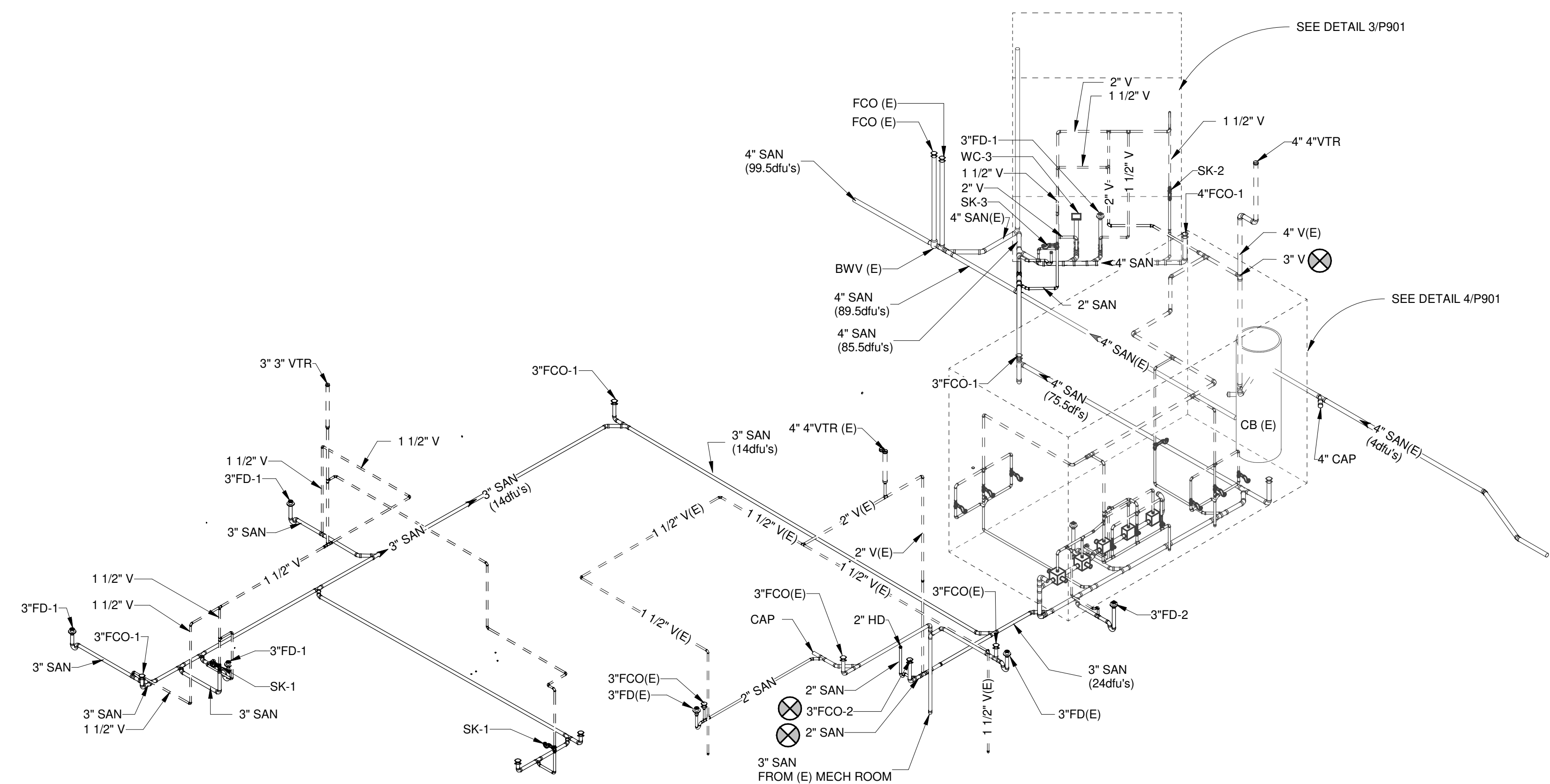
**P-901**



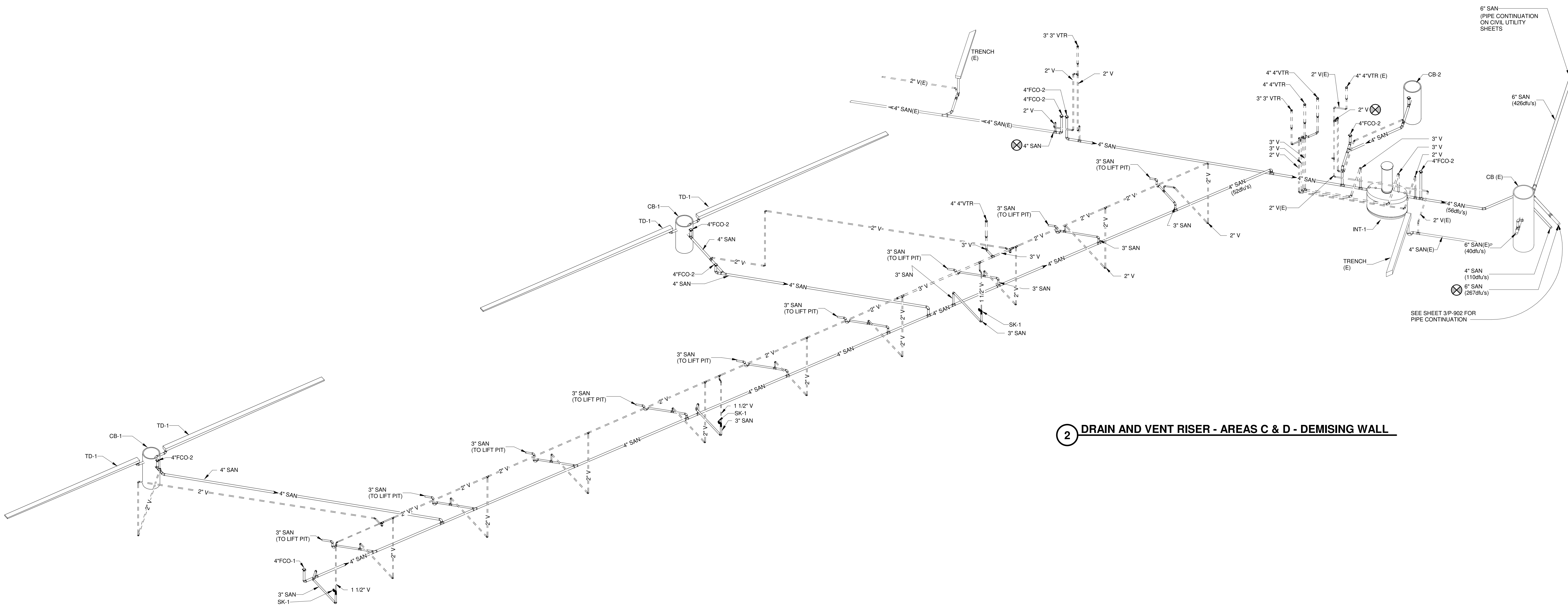
**4** DRAIN AND VENT RISER  
AREA A - WOMEN'S 1110 & MEN'S 1111



**3** DRAIN AND VENT RISER  
AREA A - TOILET 1119



**1** DRAIN AND VENT RISER - AREA A



**2** DRAIN AND VENT RISER - AREAS C & D - DEMISING WALL

4/1/2021 5:16:37 PM C:\Revel Local\190896.03 P-901\_Arno\_pn.lia@meadhunt.com.rvt

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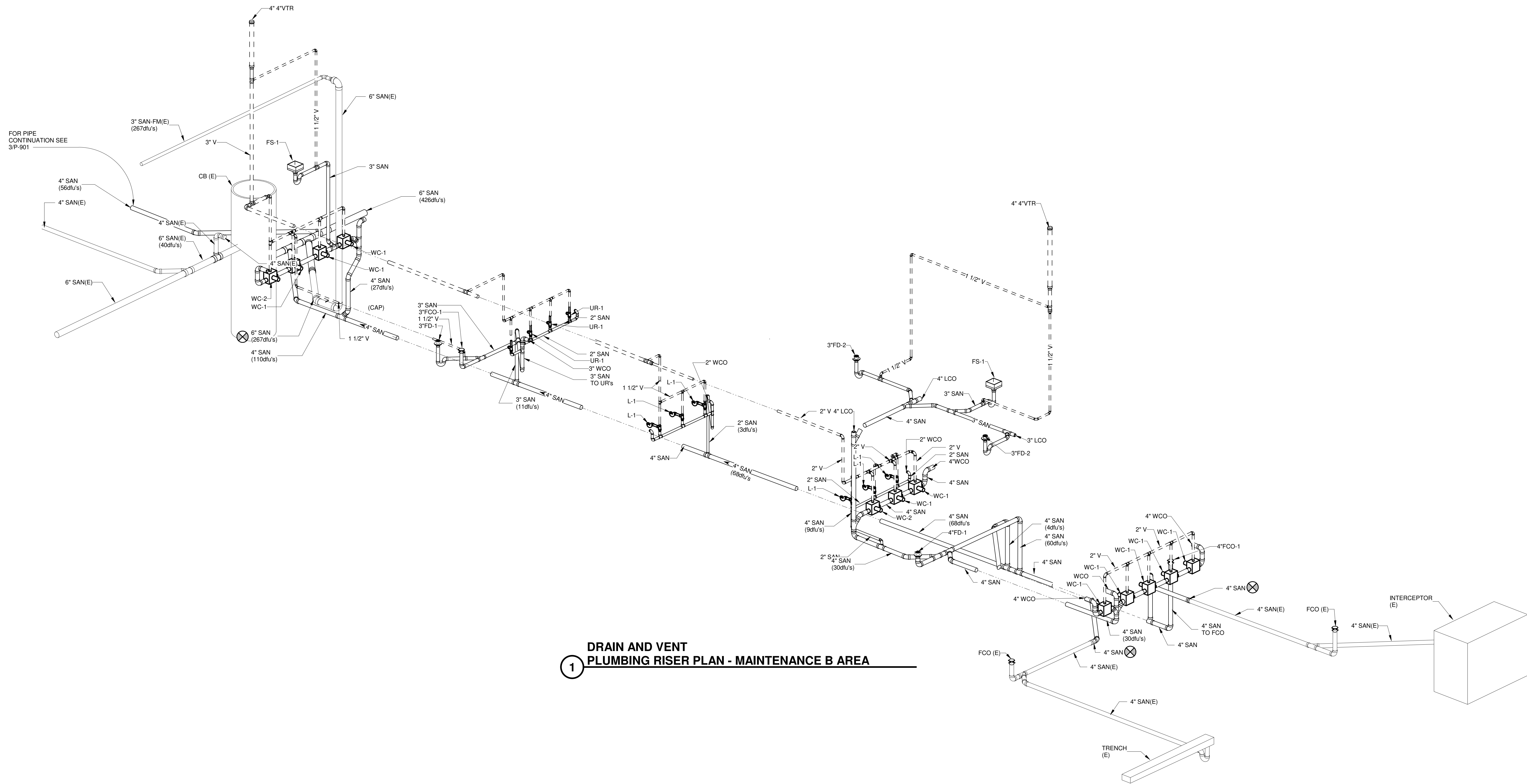
ISSUED  
04/08/21 BID SET

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SHEET CONTENTS  
DRAIN AND VENT  
ISOMETRIC PLAN

SHEET NO.:

**P-902**



**1** **DRAIN AND VENT  
PLUMBING RISER PLAN - MAINTENANCE B AREA**



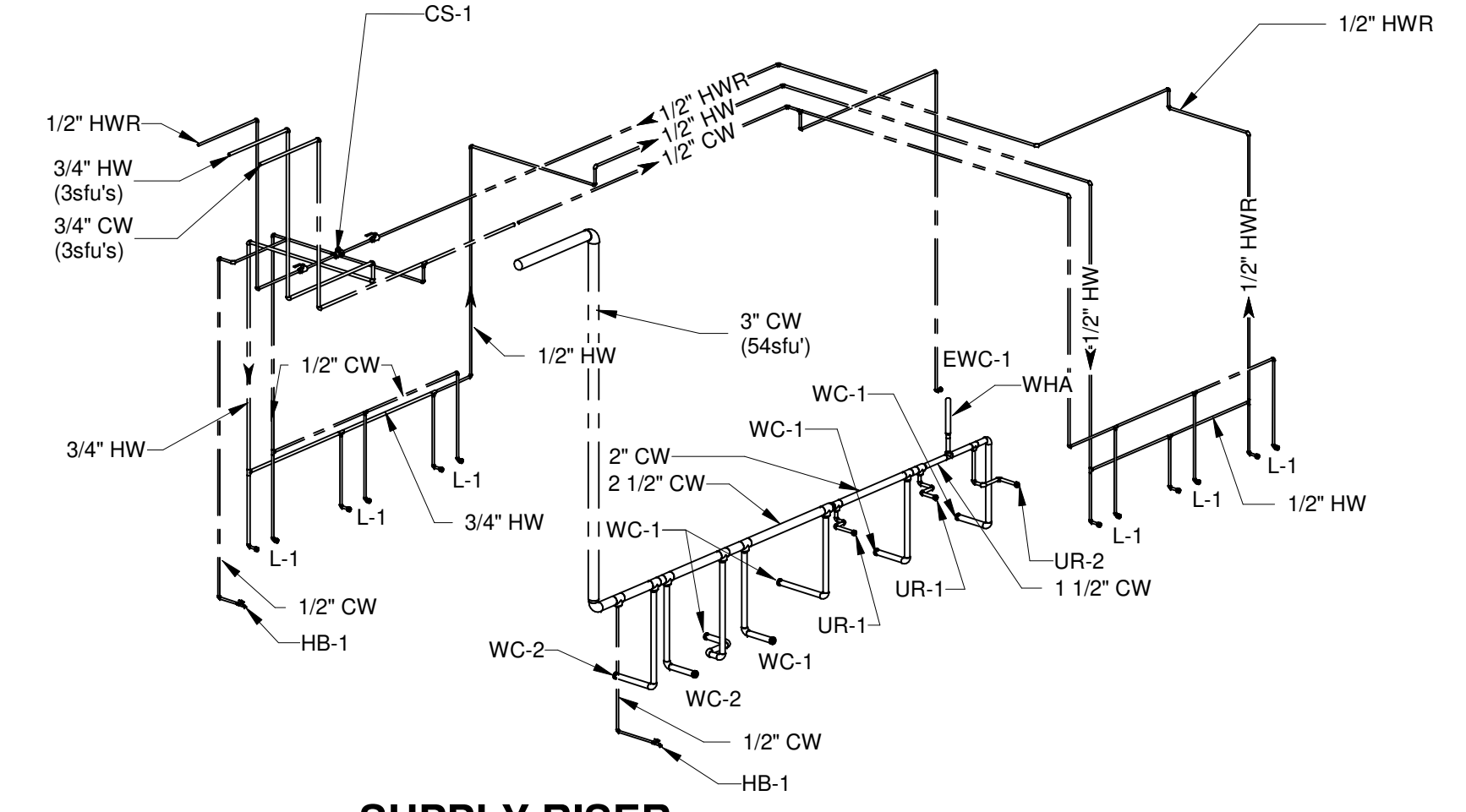
**CITY OF MADISON  
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MADISON, WI 53703**

ISSUED  
04/08/21 BID SET

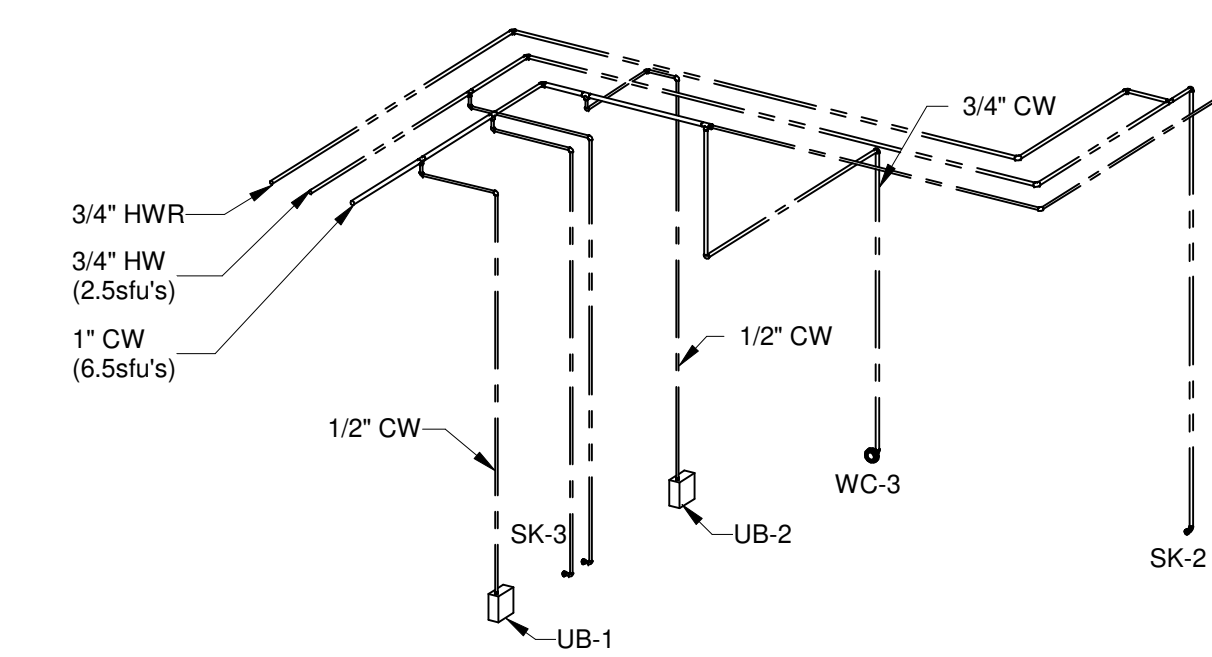
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DATE: APRIL 8, 2021  
DESIGNED BY: JET  
DRAWN BY: JET  
CHECKED BY: RMM  
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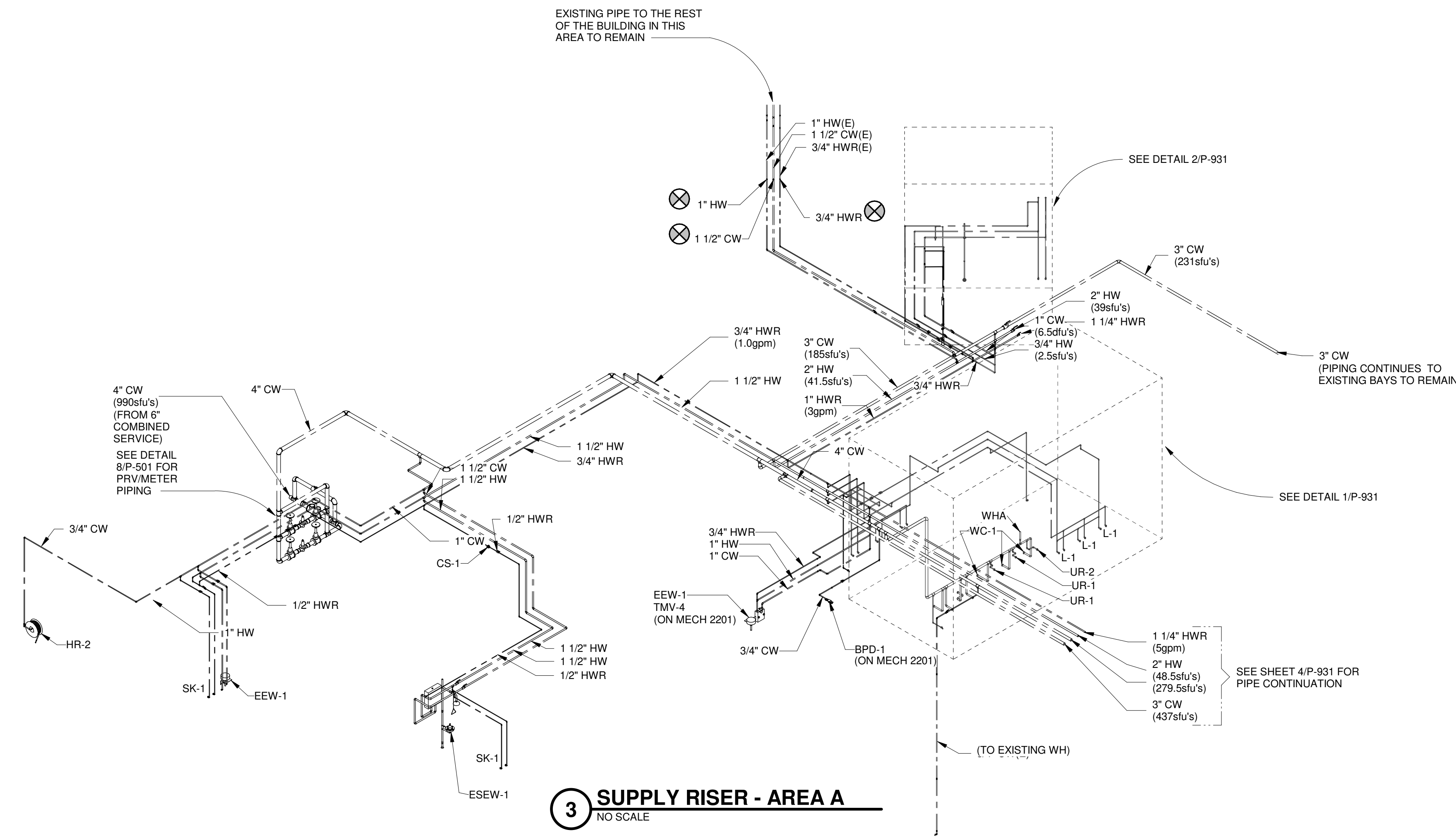
**P-931**



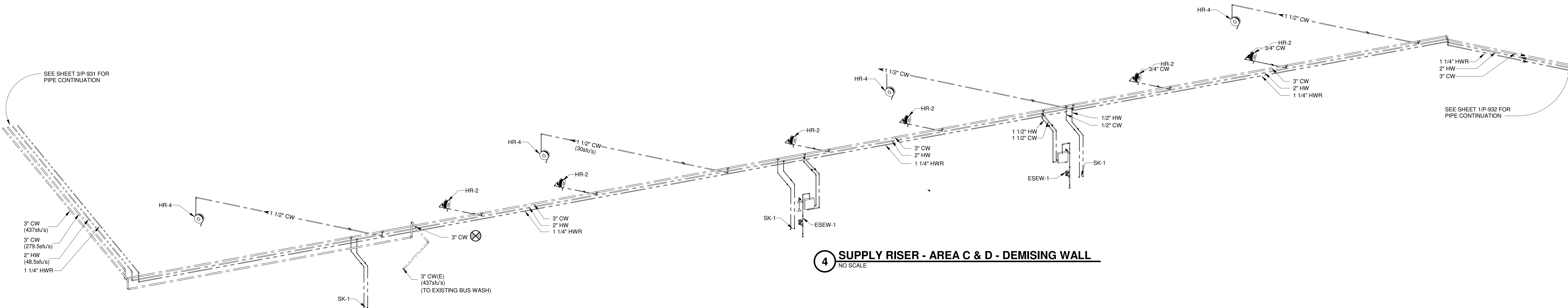
**1 SUPPLY RISER  
AREA A - WOMEN'S 1110 & MEN'S 1111**  
NO SCALE



**2 SUPPLY RISER  
AREA A - TOILET 1119**  
NO SCALE



**3 SUPPLY RISER - AREA A**  
NO SCALE



**4 SUPPLY RISER - AREA C & D - DEMISING WALL**  
NO SCALE



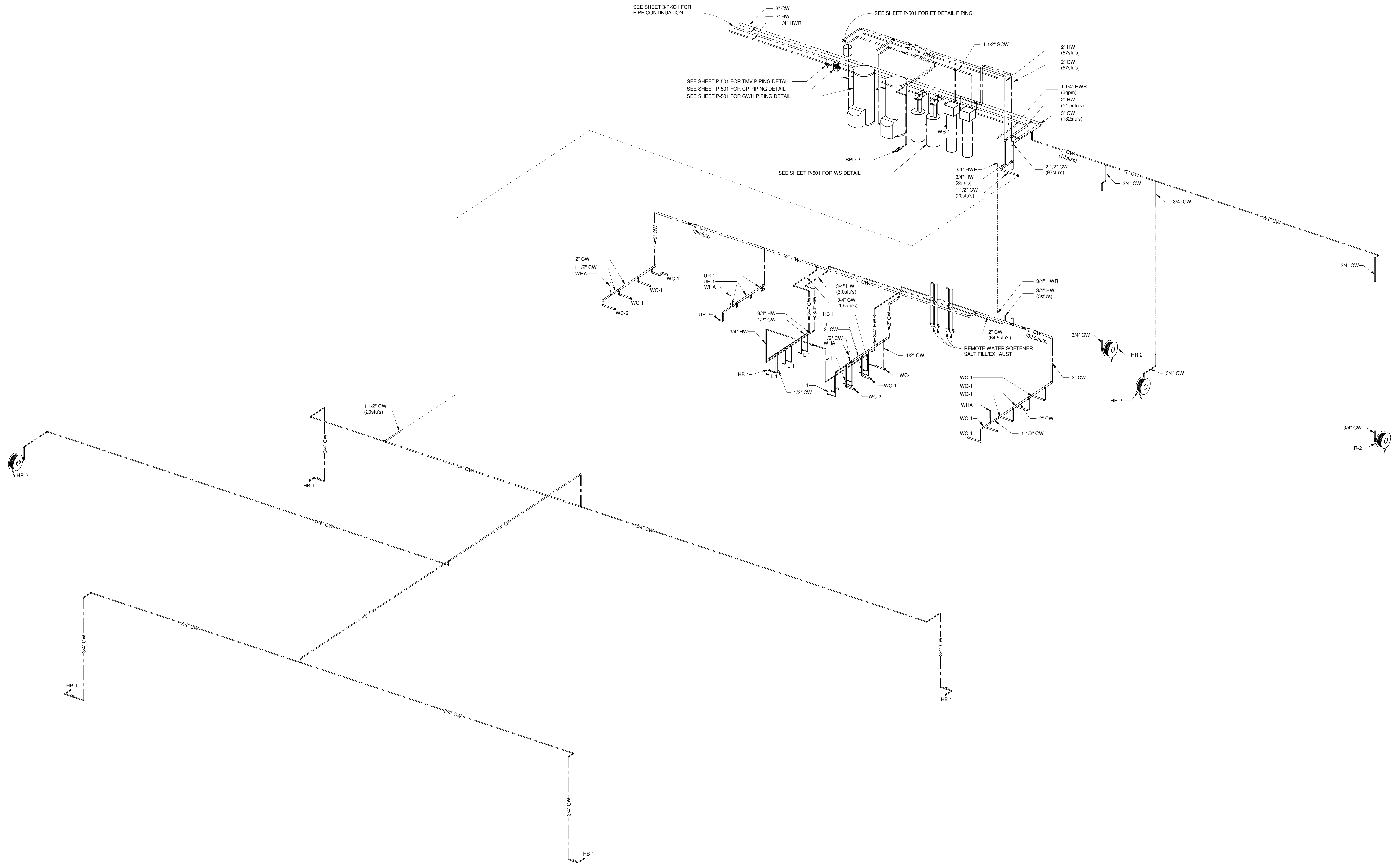
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ISSUED

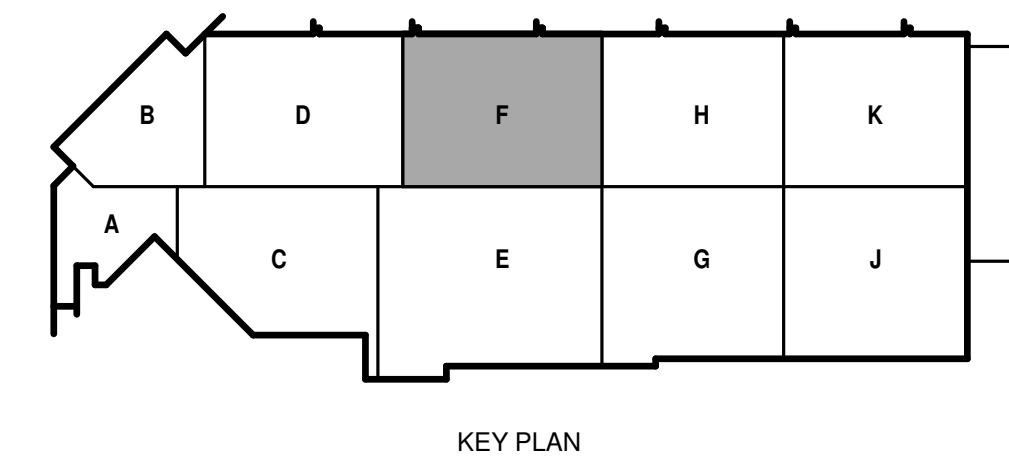
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DATE: April 8, 2021  
DESIGNED BY: JET  
DRAWN BY: JET  
CHECKED BY: RMM  
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SHEET CONTENTS  
RISER DIAGRAMS

SHEET NO.:



**1 SUPPLY RISER - AREA F - MAINTENANCE B**





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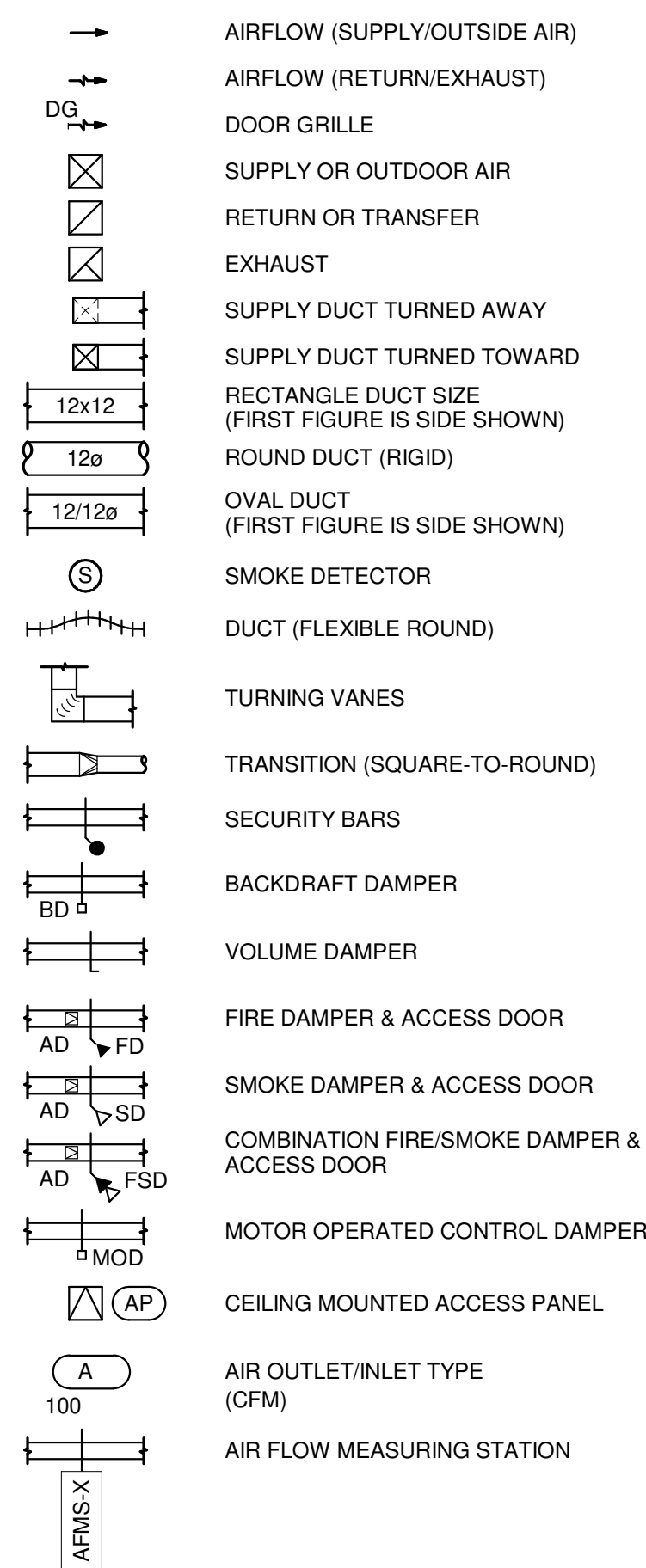
ISSUED 04/08/21 BID SET

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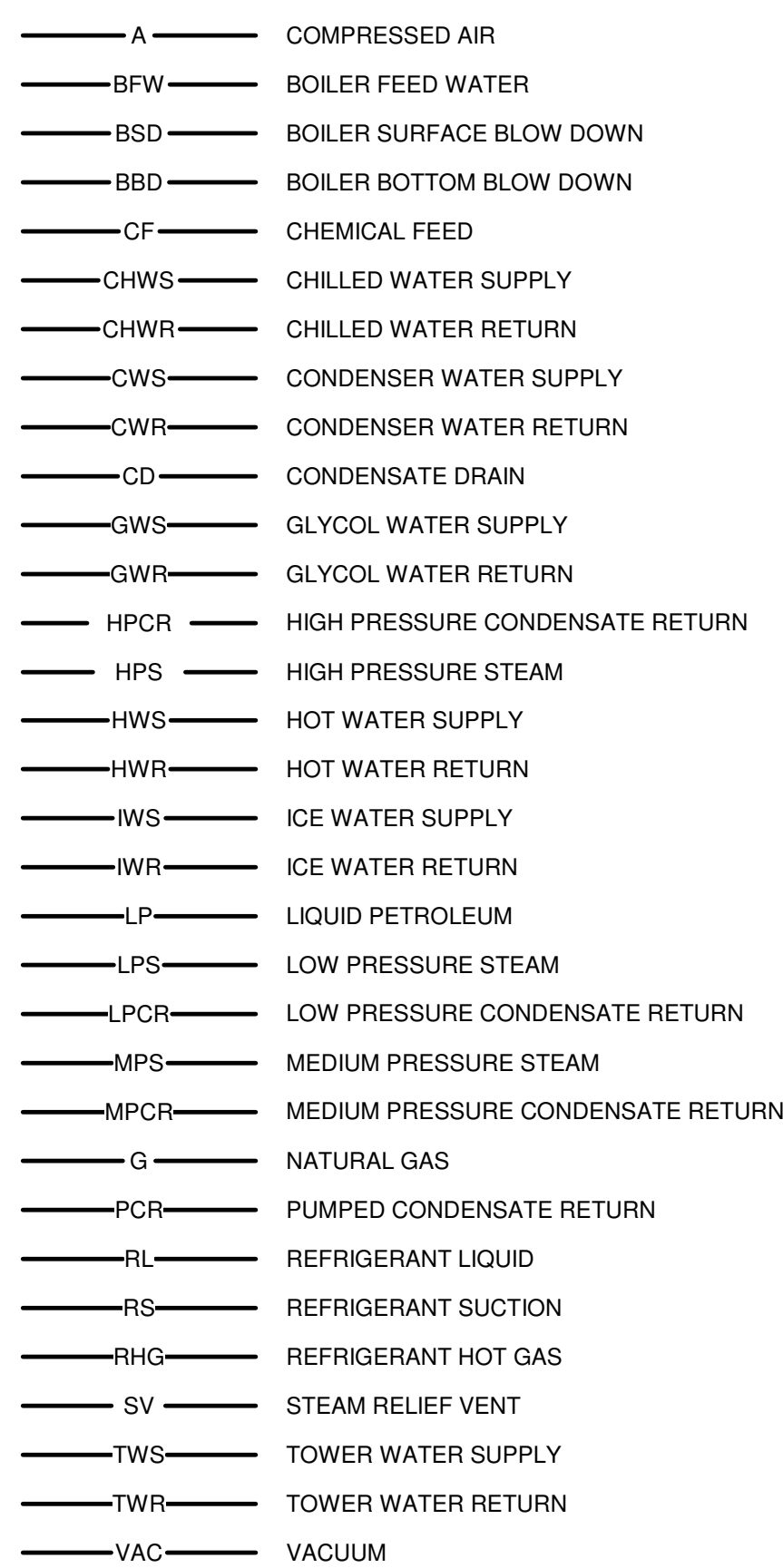
SHEET CONTENTS NOTES, SYMBOLS AND ABBREVIATIONS

M-001

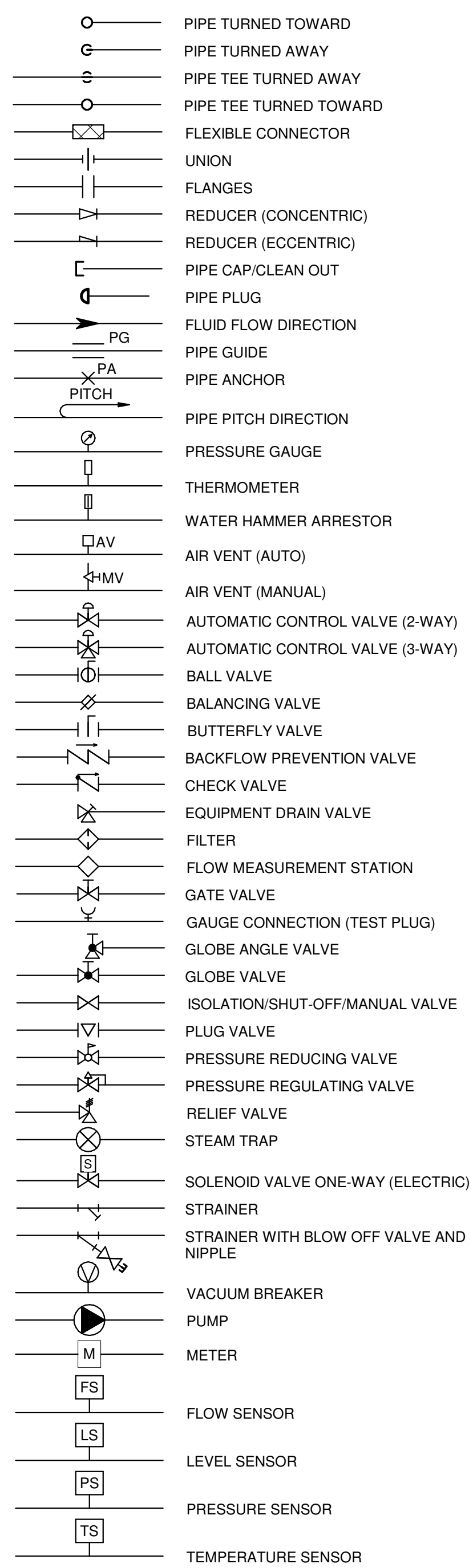
HVAC SYMBOLS



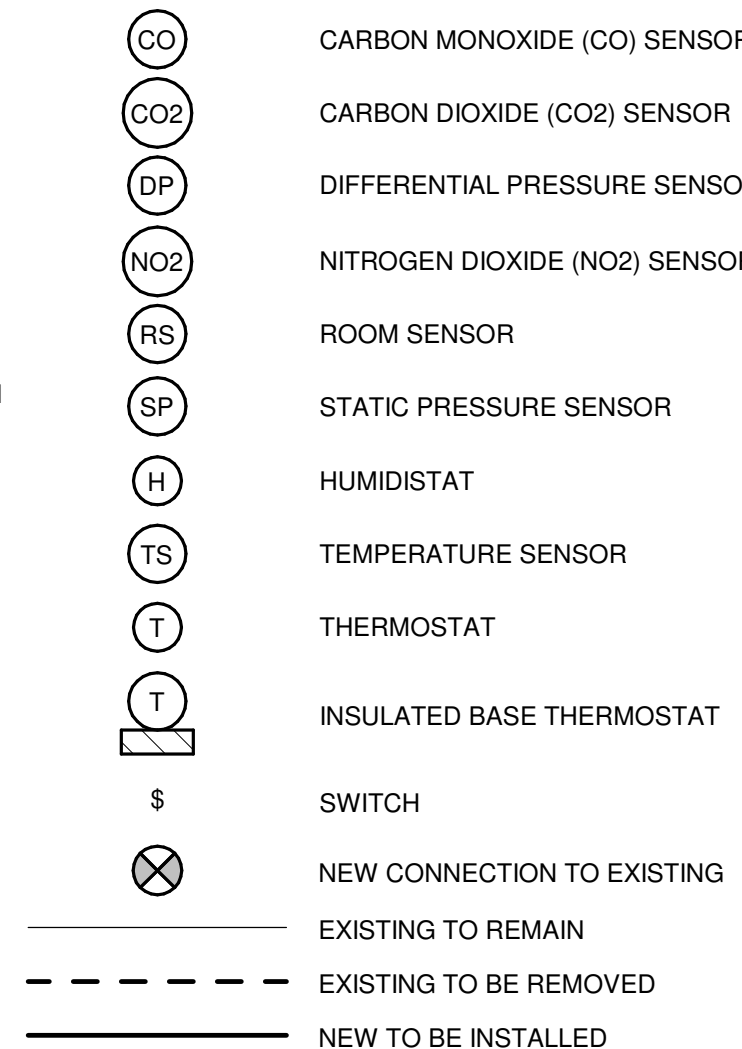
MECHANICAL PIPING



PIPING SYMBOLS



GENERAL SYMBOLS



GENERAL MECHANICAL NOTES

- 1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS. 2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS. 3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS. 4. THE MECHANICAL CONTRACTOR SHALL EXAMINE ALL CONTRACT DOCUMENTS AND IS REQUIRED TO DO ALL WORK WHICH IS SHOWN ON THE DRAWINGS, STATED IN THE SPECIFICATIONS, OR REASONABLY IMPLIED AS NECESSARY TO COMPLETE THEIR DIVISION OF WORK FOR THIS PROJECT REGARDLESS OF WHERE IN THE CONTRACT DOCUMENTS THE WORK IS REPRESENTED. MECHANICAL CONTRACTOR TO COORDINATE WORK WITH ALL OTHER TRADES. ALL OTHER TRADE DOCUMENTS ARE TO BE CONSIDERED PART OF THIS CONTRACTORS DOCUMENTS WITH RESPECT TO COORDINATION OF WORK BETWEEN TRADES OF WORK. 5. ABBREVIATIONS AND SYMBOLS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL ABBREVIATIONS MAY BE INDICATED IN THE CONTRACT DOCUMENTS. 6. THESE DRAWINGS ARE DESIGN DRAWINGS AND ARE DIAGRAMMATIC, THEY MAY NOT SHOW ALL PHYSICAL ARRANGEMENTS, OFFSETS, BENDS, OR ELBOWS WHICH MAY BE REQUIRED FOR PROPER INSTALLATION OF VARIOUS MATERIALS, EQUIPMENT, PIPING AND DUCTWORK SYSTEMS IN ALLOTTED SPACES. EXAMINE THESE AND OTHER AVAILABLE DRAWINGS TO DETERMINE SPACE LIMITATIONS AND INTERFERENCES. MAKE ANY MINOR CHANGES IN LOCATIONS OF EQUIPMENT, PIPING, AND DUCTWORK FROM THAT SHOWN ON DRAWINGS AND FOR ALL PHYSICAL DETAILS REQUIRED FOR INSTALLATION. COST FOR ADAPTING WORK TO JOB SITE CONDITIONS SHALL NOT BE CONSIDERED AS BASIS OF AN EXTRA COST TO CONTRACT. 7. ELEVATION OF PIPING AND DUCTWORK INDICATED ON THESE DRAWINGS ARE TO BE USED AS GUIDELINES TO ASSIST WITH INSTALLATIONS. MINOR CHANGES TO THESE ELEVATIONS MAY BE NECESSARY TO ELIMINATE UNFORESEEN INTERFERENCES. ANY CHANGE IN ELEVATION SHALL BE APPROVED PRIOR TO CHANGE. 8. ANY AND ALL INFORMATION SHOWN ON THESE DRAWINGS WITH RESPECT TO EXISTING STRUCTURES, UTILITIES, AND MECHANICAL SYSTEMS, IS AS EXACT AS COULD BE SECURED. THE INFORMATION IS NOT WARRANTED NOR GUARANTEED ACCURATE. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK. 9. ACCURATE AND LEGIBLE AS-BUILT DRAWING MARKUPS SHALL BE MAINTAINED AT THE JOB SITE, AND BE SUBMITTED PRIOR TO FINAL PAYMENT FOR THE CREATION OF FINAL RECORD DRAWINGS. 10. ALL NEW AND EXISTING ROOFING SYSTEMS SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION ACTIVITIES. 11. TEMPORARILY PATCH ALL ROOF OPENINGS WATER TIGHT UNTIL FINAL CLOSURE CAN BE MADE. 12. VERIFY ALL EQUIPMENT LOCATIONS AND PIPE AND DUCT ROUTING WITH OWNER PRIOR TO INSTALLATION. 13. SEQUENCE OF WORK AND/OR PLACE OF COMMENCEMENT OF WORK SHALL BE APPROVED PRIOR TO WORK BEING STARTED. SCHEDULED SHUTDOWNS SHALL BE CLOSELY COORDINATED WITH EXISTING OPERATIONS. 14. MAINTAIN 3'-0" CLEAR HORIZONTALLY IN FRONT OF ALL ELECTRICAL EQUIPMENT. 15. COORDINATE POWER REQUIREMENTS FOR ALL POWER TO MECHANICAL EQUIPMENT INCLUDING CONTROL SYSTEM WITH ELECTRICAL CONTRACTOR AND INSURE ALL COSTS ASSOCIATED WITH SUCH ARE INCLUDED IN THE PROJECT BID COST. PROVIDE ELECTORAL POWER, TRANSFORMERS, RELAYS, ETC. AS NECESSARY TO ALL HVAC AND MECHANICAL CONTROLS. 16. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES ON ALL EQUIPMENT.

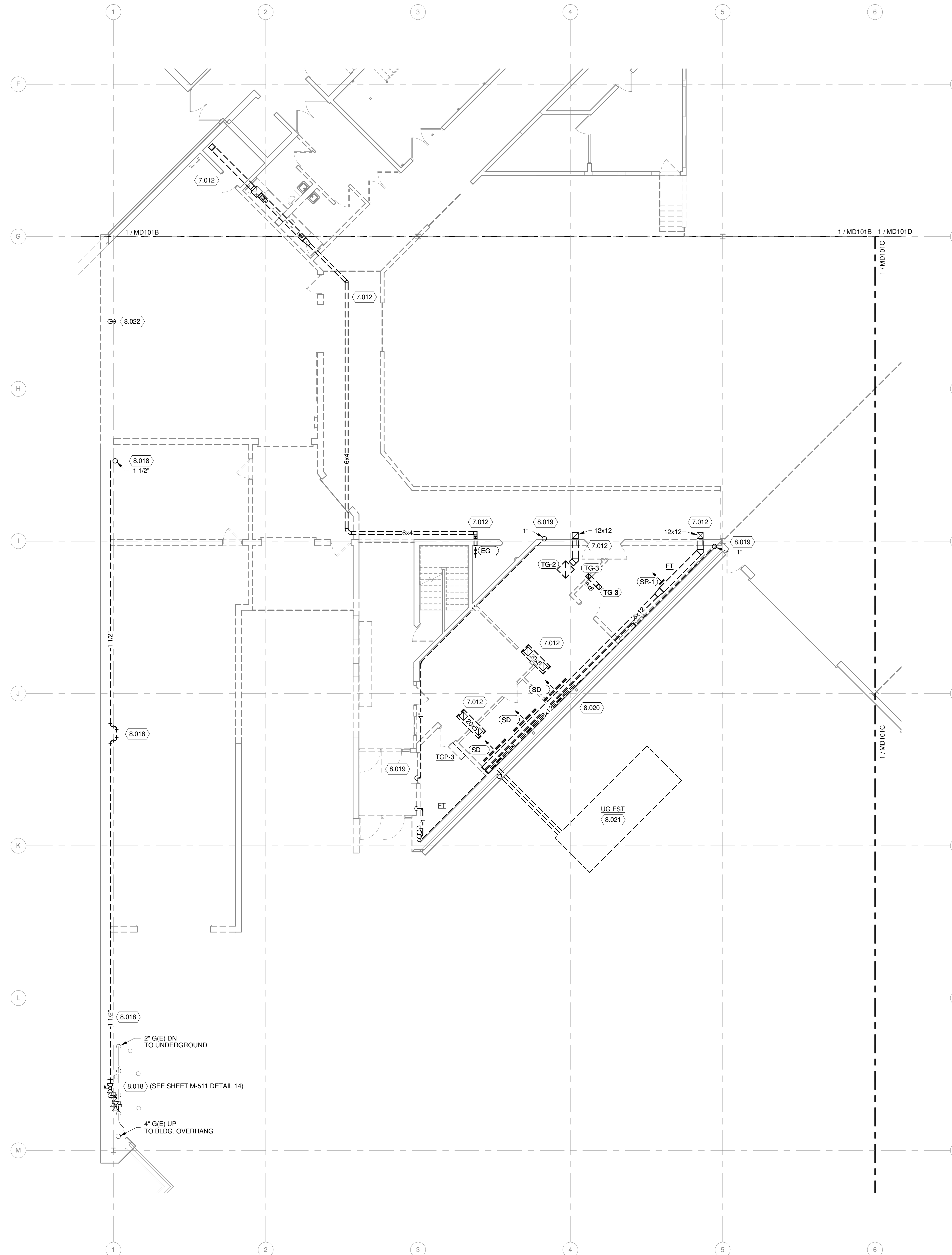
AIR CONDITIONING DESIGN DATA SCHEDULE

DESIGN AREA	SUMMER				WINTER			REMARKS
	*F (DB)	*F (WB)	*F (DB)	% HUMID	*F (DB)	*F (DB)	% HUMID	
IT/COMM ROOMS	87.0	75.0	72 +/- 2	45-50	-15.0	72 +/- 2	-	
OCCUPIED ROOMS	87.0	75.0	75 +/- 2	45-50	-15.0	70 +/- 2	-	ADMINISTRATION AREAS
HEATING & VENTING ONLY	-	-	-	-	-15.0	68 +/- 2	-	MAINTENANCE SERVICE BAYS AND PARTS AREA
HEATING & VENTING ONLY	-	-	-	-	-15.0	68 +/- 2	-	MAINTENANCE B - BODY SHOP/SERVICE BAY
HEATING & VENTING ONLY	-	-	-	-	-15.0	68 +/- 2	-	TIRE SHOP/DOCK AREA

ABBREVIATIONS

Table listing abbreviations for various mechanical components and materials, including: A (AMPS), AB (AIR BLOWDOWN), ABI (ALTERNATE BID ITEM), AC (DUCTLESS SPLIT SYSTEM), ACC (AIR COOLED CONDENSER), ACCU (AIR COOLED CONDENSING UNIT), ACH (AIR COOLED CHILLER), ACOMP (AIR COMPRESSOR), ACU (AIR CONDITIONING UNIT), ACV (AUTOMATIC CONTROL VALVE), AD (AIR DROP), AF (AIR FILTER OR AIR FOIL), AFC (AFTER COOLER), AFF (ABOVE FINISHED FLOOR), AHJ (AUTHORITY HAVING JURISDICTION), AHU (AIR HANDLING UNIT), AL (ALUMINUM), AMD (AIR MIXING DEVICE), ANG (AIR NATIONAL GUARD), APPROX (APPROXIMATELY), AS (AIR SEPARATOR), ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS), AT (AIR TERMINAL), AWC (ABSORPTION CHILLER), BMS (BUILDING AUTOMATION SYSTEM), BC (BOOSTER COIL), BH (BOOSTER HUMIDIFIER), BHP (BRAKE HORSEPOWER), BHR (CONTINUOUS BLOWDOWN HEAT RECOVERY SYSTEM), BI (BACKWARD INCLINED), BLD (BOILER BLOWDOWN SEPARATOR), BPD (BACKFLOW PREVENTION DEVICE), BRS (BRASS), BRZ/BZ (BRONZE), BS (BLACK (MILD) STEEL), BSB (BRANCH SELECTOR BOX), BT (BUFFER TANK), BTU (BRITISH THERMAL UNIT), BTUH (BRITISH THERMAL UNIT PER HOUR), BW (BUTTWELD), C (CONVECTOR), CA (COMBUSTION AIR), CAD (COMPRESSED AIR DRYER), CAF (COMPRESSED AIR FILTER), CAF (COOLING COIL OR CONTROLS CONTRACTOR), CD (CEILING DIFFUSER), CFM (CUBIC FEET PER MINUTE), CI (CAST IRON), COMP (COMPRESSOR), COND (CONDENSATE), COPR (CONTRACTING OFFICER'S REPRESENTATIVE), GRAC (COMPUTER ROOM AIR CONDITIONING UNIT), CRP (CONDENSATE RETURN PUMP), CS (CENTRIFUGAL SEPARATOR), CT (COOLING TOWER), CTCLG (CLOSE TO CEILING), CTCLM (CLOSE TO COLUMN), CTW (CLOSE TO WALL), CU (COPPER), CUH (CABINET UNIT HEATER), DAC (DOOR AIR CURTAIN), DBA (DECIBELS BAND A), DC (DUST COLLECTOR), DCVA (DOUBLE CHECK VALVE ASSEMBLY BPD), DDH (DIRECT DIGITAL CONTROL), DDH (DESSICANT DEHUMIDIFIER), DEMO (DEMOLISH), DF (DESTRATIFICATION FAN), DFD (DIVISION OF FACILITIES DEVELOPMENT), DIA (DIAMETER), DIM (DIMENSION), DISCH (DISCHARGE), DMPR (DAMPER), DN (DOWN), DOD (DEPARTMENT OF DEFENSE), DRC (DRY COOLER), DWG (DRAWING), DX (DIRECT EXPANSION), EA (EXISTING), EAT (EXHAUST AIR), EAT (ENTERING AIR TEMPERATURE), EBH (ELECTRIC BASEBOARD HEATER), EC (EVAPORATIVE COOLER OR ELECTRICAL CONTRACTOR), EDH (ELECTRIC DUCT HEATER), EF (EXHAUST FAN), EFF (EFFICIENCY), EFT (ENTERING FLUID TEMPERATURE), EG (EXHAUST GRILLE), EGYL (ETHYLENE GLYCOL), EHC (ELECTRIC HEATING COIL), EJ (EXPANSION JOINT), EL (ELEVATION), ELEC (ELECTRIC), EOM (END OF MAIN), EPDM (ETHYLENE PROPYLENE DIENE MONOMER), ERV (AIR-TO-AIR HEAT EXCHANGER), ESP (EXTERNAL STATIC PRESSURE), ET (EXPANSION TANK), ETR (EXISTING TO REMAIN), EWH (ELECTRIC WALL HEATER), EWT (ENTERING WATER TEMPERATURE), F (FAHRENHEIT), FAF (FORCED AIR FURNACE), FC (FLUID COOLER), FCU (FAN COIL UNIT), FE (FUME EXTRACTOR), FLA (FULL LOAD AMPS), FLR (FLOOR), FM (FLOW METER), FOP (FUEL OIL PUMP), FPM (FEET PER MINUTE), FFP (FIBERGLASS REINFORCED PLASTIC), FT (FLASH TANK OR FEET), FTC (FINNED TUBE CONVECTOR), FTWC (FEET WATER COLUMN PRESSURE), GA (GAUGE), GAL (GALLON), GC (GENERAL CONTRACTOR), GCF (GLYCOL FILL TANK), GPM (GALLONS PER MINUTE), GS (GALVANIZED STEEL), H (HEIGHT), HB (HUMIDIFICATION BOILER), HC (HEATING COIL), HD (HEAD (FT)), HDB (HYDROSTATIC DESIGN BASIS), HP (HEAT PUMP OR HORSEPOWER), HPC (ERV HEAT PUMP COIL), HR (HOSE REEL), HRW (ROTARY AIR-TO-AIR EXCHANGER), HUM (HUMIDIFIER), HWB (HOT WATER BOILER), HX (FLUID HEAT EXCHANGER), HZ (HERTZ), IAW (IN ACCORDANCE WITH), ID (INSIDE DIAMETER), IE (INVERT ELEVATION), IFGC (INTERNATIONAL FUEL GAS CODE), IH (INTAKE HOOD), IN (INCH), INHG (INCHES MERCURY PRESSURE), INWC (INCHES WATER COLUMN PRESSURE), IR (INFRARED HEATER), KH (KITCHEN HOOD), KW (KILOWATT), L (LOUVER OR LENGTH), LAT (LEAVING AIR TEMPERATURE), LB (POUNDS), LD (LINEAR DIFFUSER), LFT (LEAVING FLUID TEMPERATURE), LPG (LIQUEFIED PETROLEUM GAS), LSW (LEVEL SWITCH), LWT (LEAVING WATER TEMPERATURE), MAPD (MAXIMUM ALLOWABLE DIFFERENTIAL PRESSURE), MAU (MAKE UP AIR UNIT), MAWP (MAXIMUM ALLOWABLE WORKING PRESSURE), MAX (MAXIMUM), MBS (THOUSANDS BTU'S PER HOUR), MC (MECHANICAL CONTRACTOR OR MECHANICAL COUPLING), MCA (MINIMUM CIRCUIT AMPACITY), MCC (MOTOR CONTROL CENTER), MFR (MANUFACTURER), MIN (MINIMUM), MMBH (MILLION BTU PER HOUR), MOC (MINIMUM OVER CURRENT PROTECTION), MSS (MANUFACTURERS STANDARDIZATION SOCIETY), MTL (MATERIAL), NA (NOT APPLICABLE), NC (NORMALLY CLOSED), NFPA (NATIONAL FIRE PROTECTION ASSOCIATION), NH (NO-HUB), NI (NOT IN CONTRACT), NO (NORMALLY OPEN), NCM (NOMINAL), NPSH (NET POSITIVE SUCTION HEAD), NPSHA (NPSH AVAILABLE), NPSHR (NPSH REQUIRED), OA (OUTSIDE AIR), OC (ON CENTER), OD (OUTSIDE DIAMETER), OED (OPEN ENDED DUCT), P (HYDRONIC PUMP OR PRESSURE), PC (PLUMBING CONTRACTOR), PCP (PRESSURE POWERED CONDENSATE PUMP), PD (PRESSURE DROP/DIFFERENTIAL), PH (PROPYLENE GLYCOL), PHASE, PICCV (PRESSURE INDEPENDENT QUICK COMPACT VALVE), PPH (POUND PER HOUR), PROP (PROPELLER), PRV (PRESSURE REDUCING VALVE), PSI (POUNDS PER SQUARE INCH), PSI ABSOLUTE, PSD (PSI DIFFERENTIAL), PSIG (PSI GAGE), PTAC (PACKAGED TERMINAL AIR CONDITIONER), PTHP (PACKAGED TERMINAL HEAT PUMP), PVL (POLYVINYL CHLORIDE), RA (RETURN AIR), RCP (RADIANT CEILING PANEL), RDH (REFRIGERATED DEHUMIDIFIER), RG (RETURN GRILLE), RH (RELIEF HOOD), RPM (REVOLUTIONS PER MINUTE), RTD (RESISTIVE THERMAL DEVICE), RTU (ROOF TOP UNIT), RZ (RADIANT FLOOR HEATING ZONE), SA (SUPPLY AIR), SAD (SOUND ATTENUATING DEVICE), SB (SECURITY BARRIER), SCFM (STANDARD CFM), SCH (SCHEDULE), SD (SLOT DIFFUSER/SOLDER), SF (STEAM FILTER OR SUPPLY FAN), SG (SUPPLY GRILLE), SHT (SHEET), SMLS (SEAMLESS), SMS (SNOW MELTING SYSTEM DISTRIBUTION), MANIFOLD, SP (STATIC PRESSURE), SPEC (SPECIFICATIONS), SQ (SQUARE), SRV (SAFETY RELIEF VALVE), SS (STAINLESS STEEL), STD (STANDARD), STL (STEEL), SW (SOLVENT WELD), SV (SOCKET WELD), T (TEMPERATURE), TA (TRANSFER AIR), TH (THREADED), TOP (TEMPERATURE CONTROL PANEL), TMC (TECHNOLOGY MANAGEMENT CENTER), TMV (THERMOSTATIC MIXING VALVE), TONR (TONS COOLING), TYP (TYPICAL), UC (UNIT COOLER), UFG (UNIFIED FACILITIES CRITERIA), UNDERGROUND, UH (UNIT HEATER), UNO (UNLESS NOTED OTHERWISE), UV (UNIT VENTILATOR OR ULTRAVIOLET), V (VOLTS), VA (VENT AIR), VER (VEHICLE EXHAUST REEL), VFD (VARIABLE FREQUENCY DRIVE), VI (VIBRATION ISOLATORS), VLV (VALVE), VRF (VARIABLE REFRIGERANT FLOW), W (WATTS OR WIDTH), WC (WATER COLUMN), WCC (WATER COOLED CONDENSER), WCH (WATER COOLED CHILLER), WF (WATER FILTER), WW (WATER INLET VALVE), WHA (WATER HAMMER ARRESTOR)

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**GENERAL HVAC DEMOLITION NOTES**

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6. WHERE BRANCH DUCTWORK IS SHOWN TO BE DEMOLISHED BACK TO THE MAIN DUCT AND THE EXISTING MAIN DUCT OPENING IS NOT TO BE RE-USED, CAP AND SEAL THE MAIN DUCT BRANCH AIR-TIGHT.

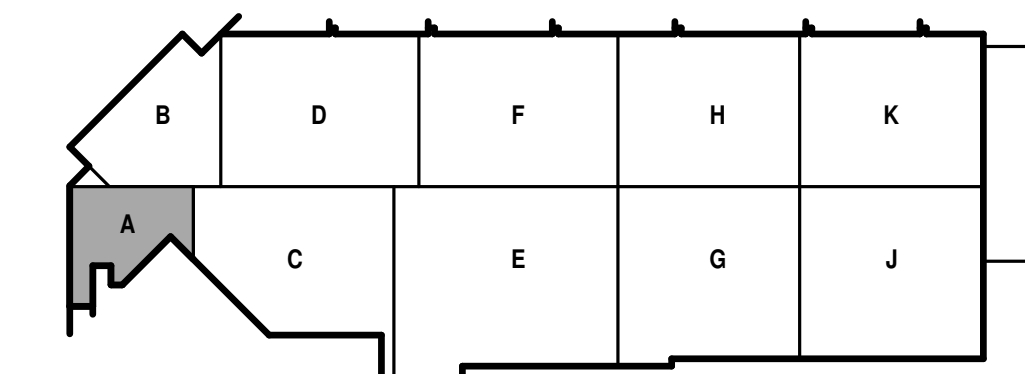
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**KEYED NOTES**

- 7.012 DEMO DUCTWORK AS SHOWN.
- 8.018 DEMO NATURAL GAS PIPING AS SHOWN. ALL HANGARS, SUPPORTS TO BE REMOVED.
- 8.019 DEMO HOT WATER PIPING AS SHOWN. ALL HANGARS, SUPPORTS TO BE REMOVED.
- 8.020 DEMO FIN-TUBE RADIATION ENCLOSURE, PIPING, CONTROL WIRING AND THERMOSTAT. ALL CONTROL RACEWAY AND WIRING SHALL BE REMOVED.
- 8.021 REFER TO CIVIL DRAWING AND SPECIFICATIONS FOR DRAINING AND REMOVAL OF EXISTING 8000 GALLON UNDERGROUND FUEL OIL TANK. THIS CONTRACTOR SHALL REMOVE ALL FUEL OIL PIPING, VENTING, CONTROLS AND RACEWAY SERVING THE UG TANK.
- 8.022 REMOVE DRAIN LINE SERVING MAU-4.

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



**CITY OF MADISON  
METRO TRANSIT PHASE 3A - MAINTENANCE AND  
DRIVER FACILITY IMPROVEMENTS**  
1101 EAST WASHINGTON AVE.  
MADISON, WI 53703

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04/08/21 BID SET

CONTRACT NO.: 8981  
M&H NO.: 4503500-190896.03  
DATE: APRIL 8, 2021  
DESIGNED BY: DJG  
DRAWN BY: RRW  
CHECKED BY: SNW  
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FIRST FLOOR  
MECHANICAL  
DEMOLITION PLAN -  
AREA A

SHEET NO.:

**MD101A**



metro transit

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SHEET CONTENTS  
FIRST FLOOR  
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AREA B

SHEET NO.:

**MD101B**

**GENERAL HVAC DEMOLITION NOTES**

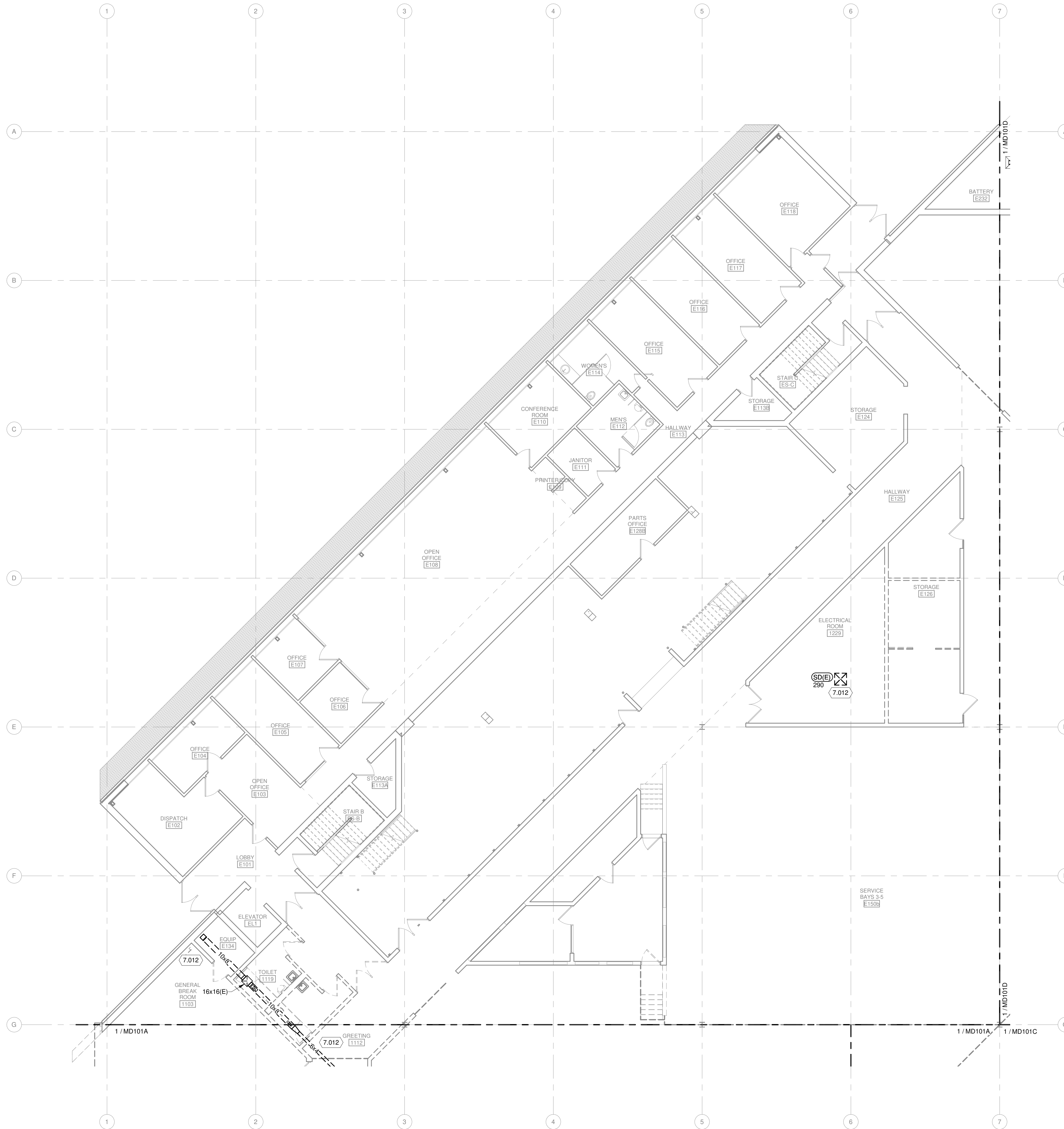
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**GENERAL PIPING DEMOLITION NOTES**

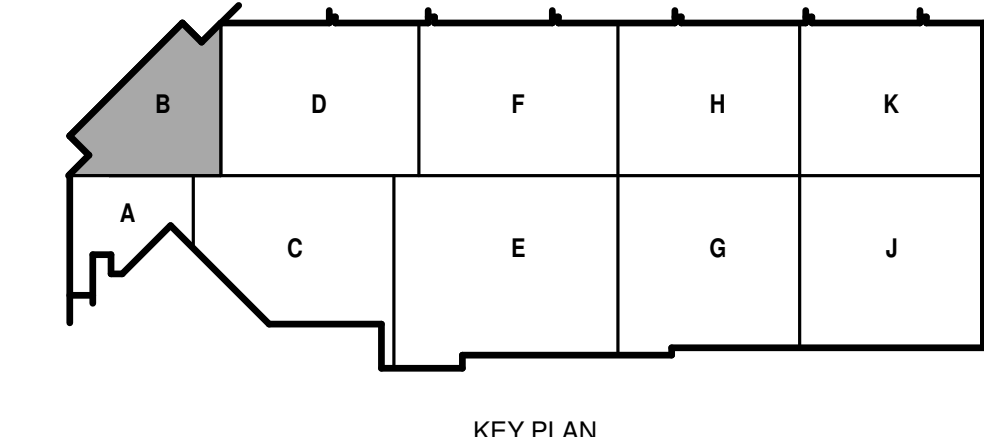
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7.012 DEMO DUCTWORK AS SHOWN.

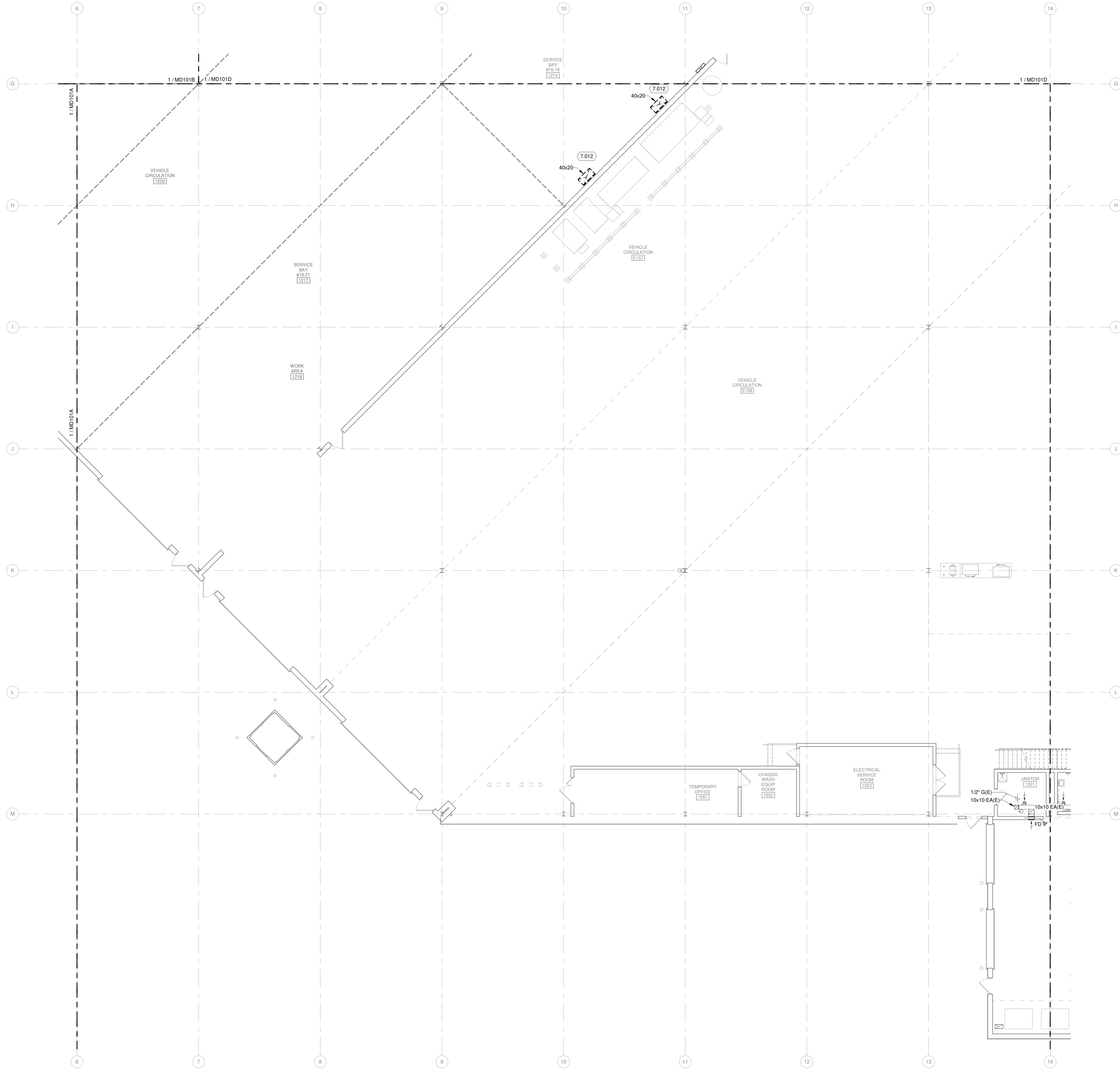


**1** FIRST FLOOR MECHANICAL DEMOLITION PLAN - AREA B  
1/8" = 1'-0"



KEY PLAN

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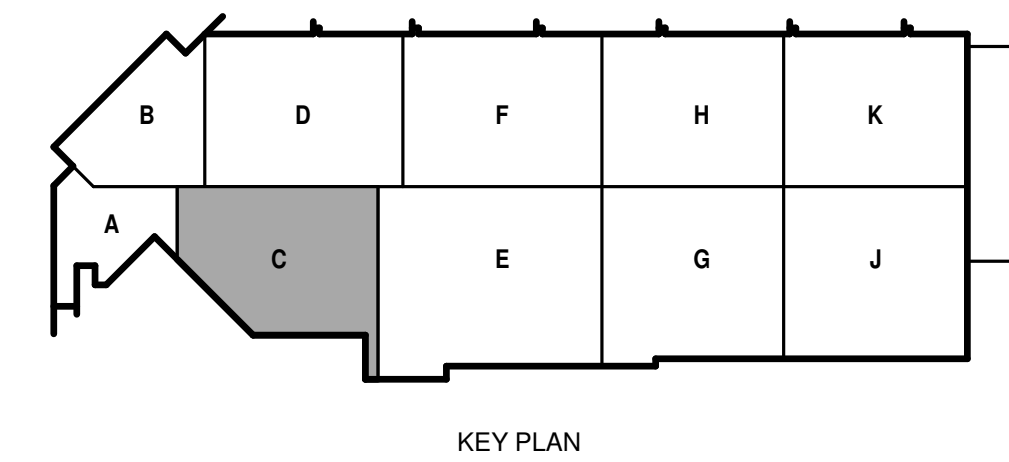
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**KEYED NOTES**

7.012 DEMO DUCTWORK AS SHOWN.

**FIRST FLOOR MECHANICAL DEMOLITION PLAN - AREA C**  
1/8" = 1'-0"



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**CITY OF MADISON**  
**METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS**  
1101 EAST WASHINGTON AVE.  
MADISON, WI 53703

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SHEET CONTENTS  
FIRST FLOOR MECHANICAL DEMOLITION PLAN - AREA C

SHEET NO.:

**MD101C**



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M&H NO.: 4503500-1908996.03  
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SHEET CONTENTS  
FIRST FLOOR  
MECHANICAL  
DEMOLITION PLAN -  
AREA D

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**MD101D**

**GENERAL HVAC DEMOLITION NOTES**

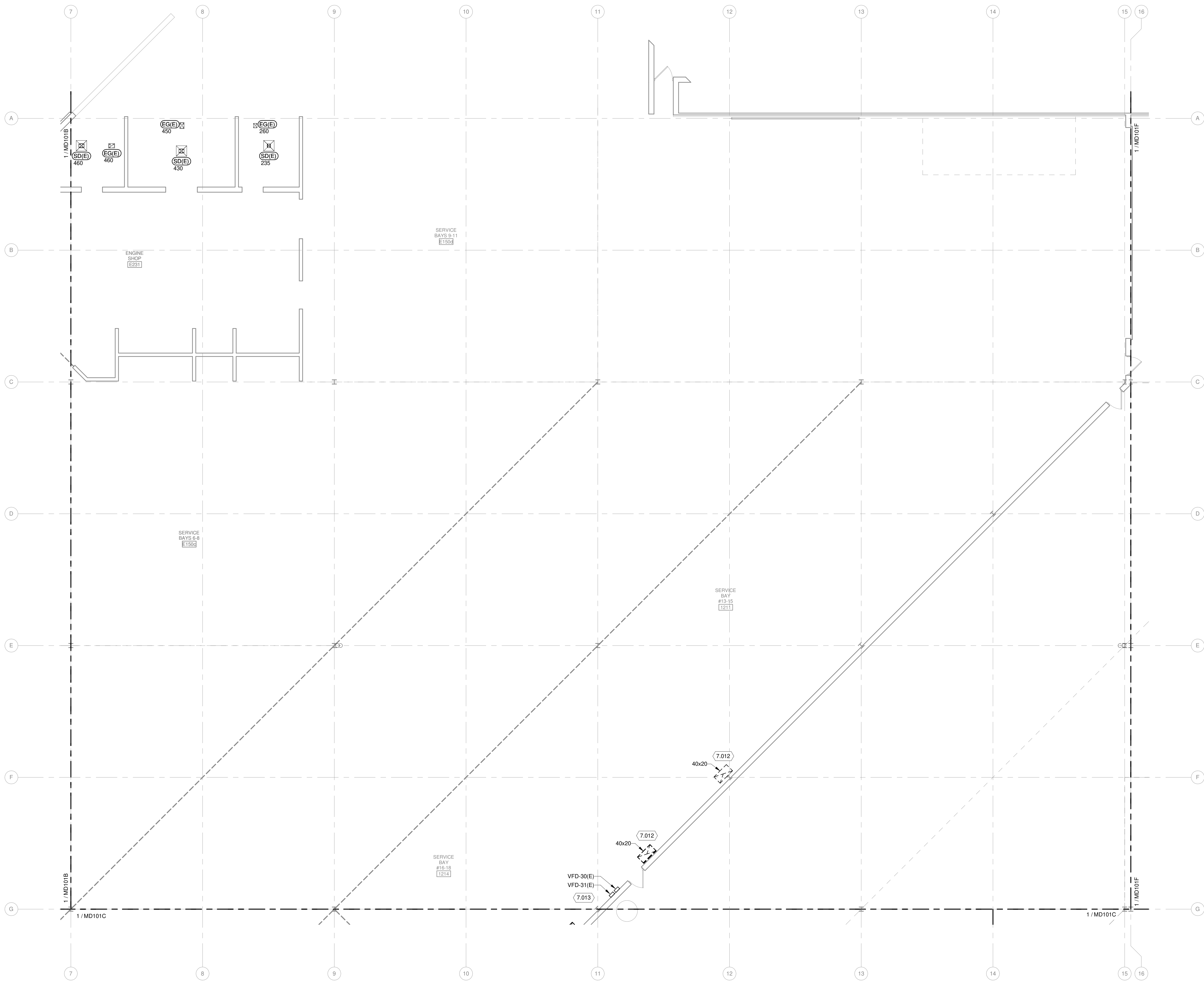
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4. REINSTALL INDICATED EQUIPMENT, SAME AS NEW WORK, IN NEW LOCATION WHERE INDICATED, COMPLETELY CLEAN AND RESTORE EQUIPMENT TO GOOD OPERATING CONDITION.
5. INSTALL TEMPORARY COVERS OVER EXISTING EXTERIOR ENVELOPE OPENINGS CREATED BY REMOVED EQUIPMENT/DUCT. COVER SHALL BE WATER-TIGHT, AND MEET OSHA AND OWNER REQUIREMENTS. COMPLETELY REMOVE TEMPORARY COVER WHEN OPENINGS ARE PATCHED TO FINAL CONDITION. REPAIR ANY DAMAGE TO EXISTING BUILDING COMPONENTS CAUSED BY TEMPORARY COVER.
6. WHERE BRANCH DUCTWORK IS SHOWN TO BE DEMOLISHED BACK TO THE MAIN DUCT AND THE EXISTING MAIN DUCT OPENING IS NOT TO BE RE-USED, CAP AND SEAL THE MAIN DUCT BRANCH OPENING AIR-TIGHT.

**GENERAL PIPING DEMOLITION NOTES**

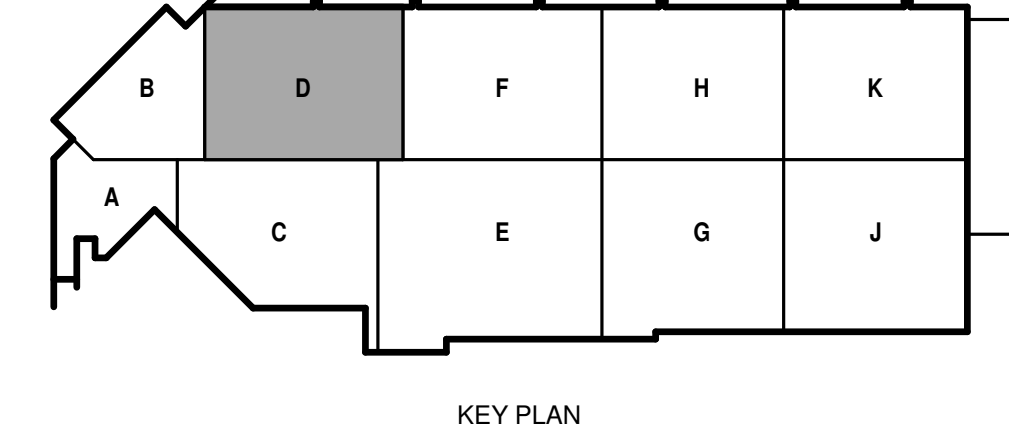
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**KEYED NOTES**

- 7.012 DEMO DUCTWORK AS SHOWN.
- 7.013 CONTRACTOR SHALL SALVAGE VARIABLE FREQUENCY DRIVES FOR REUSE TO NEW LOCATION. SEE SHEET M-101D FOR NEW LOCATIONS.



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



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metro transit

**CITY OF MADISON  
METRO TRANSIT PHASE 3A - MAINTENANCE AND  
DRIVER FACILITY IMPROVEMENTS  
1101 EAST WASHINGTON AVE.  
MADISON, WI 53703**

ISSUED  
04/08/21 BID SET

CONTRACT NO.: 8981  
M&H NO.: 4503500-190896.03  
DATE: APRIL 8, 2021  
DESIGNED BY: DJG  
DRAWN BY: RRW  
CHECKED BY: SNW  
DO NOT SCALE DRAWINGS

SHEET CONTENTS  
FIRST FLOOR  
MECHANICAL  
DEMOLITION PLAN -  
AREA F

SHEET NO.:

**MD101F**

**GENERAL HVAC DEMOLITION NOTES**

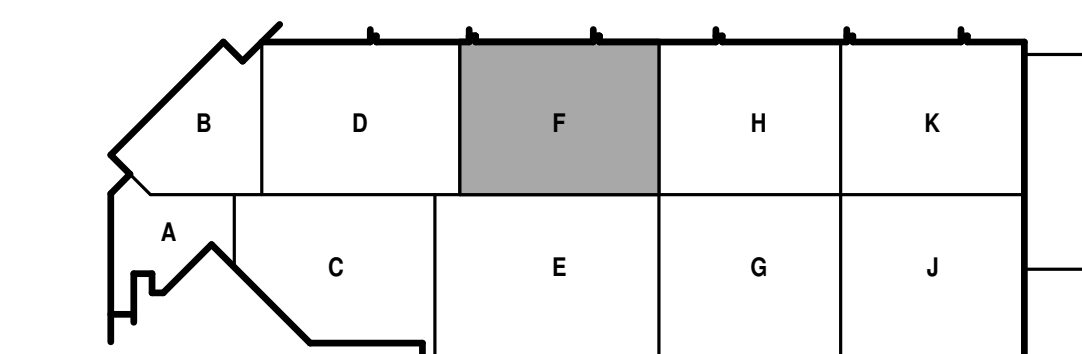
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7. ALTERNATE NO. 1, SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G111. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G111. THIS GENERALLY INCLUDES A BATHROOM/LOCKER ROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

**GENERAL PIPING DEMOLITION NOTES**

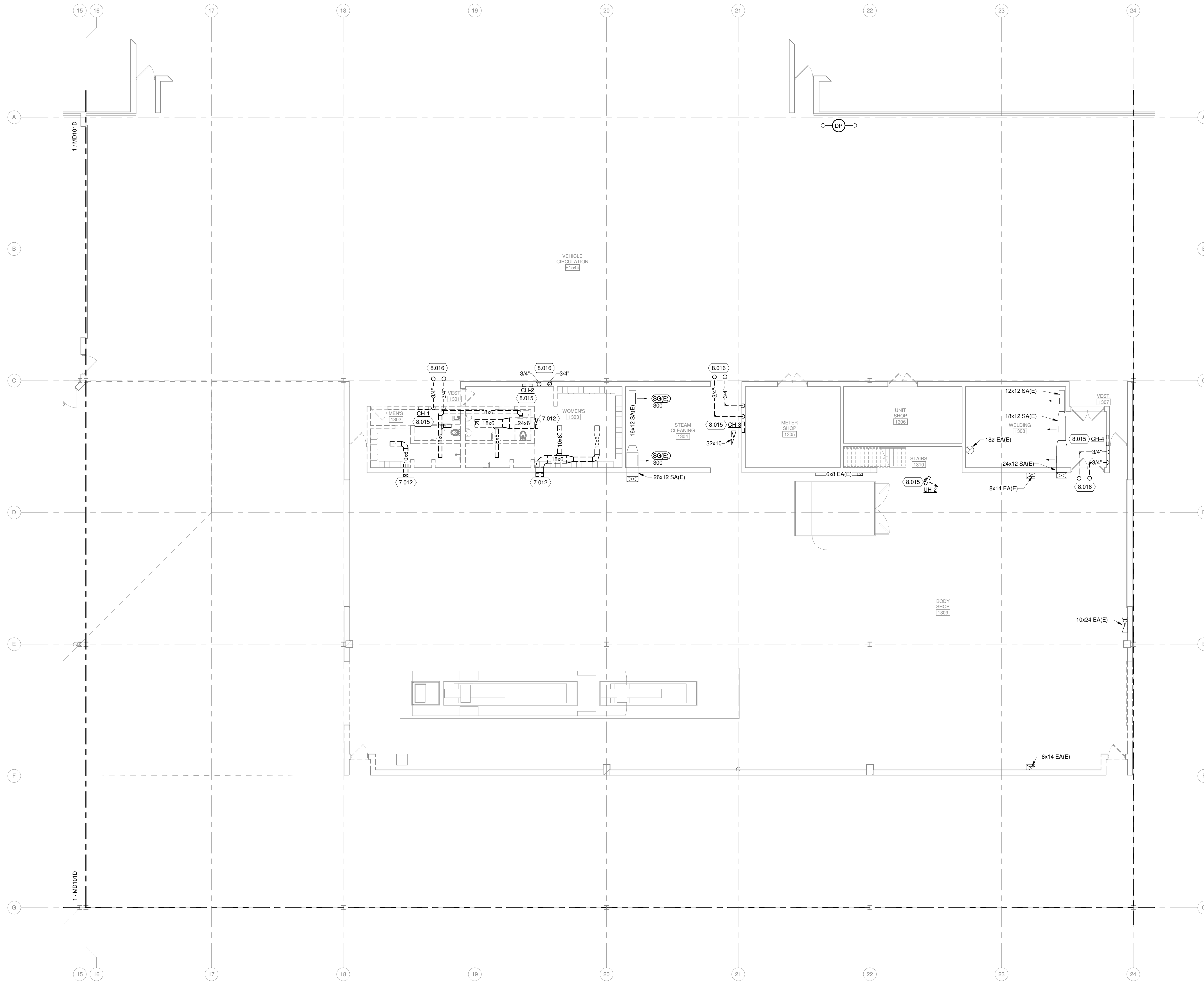
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**KEYED NOTES**

- 7.012 DEMO DUCTWORK AS SHOWN.
- 8.015 DEMO UNIT HEATER OR CABINET UNIT HEATER, PIPING, CONTROL WIRING AND THERMOSTAT. ALL CONTROL RACEWAY AND WIRING SHALL BE REMOVED.
- 8.016 ALL HOT WATER PIPING SERVING MAINTENANCE B AREA SHALL BE REMOVED BY THIS CONTRACTOR. ALL HANGARS, SUPPORTS TO BE REMOVED.

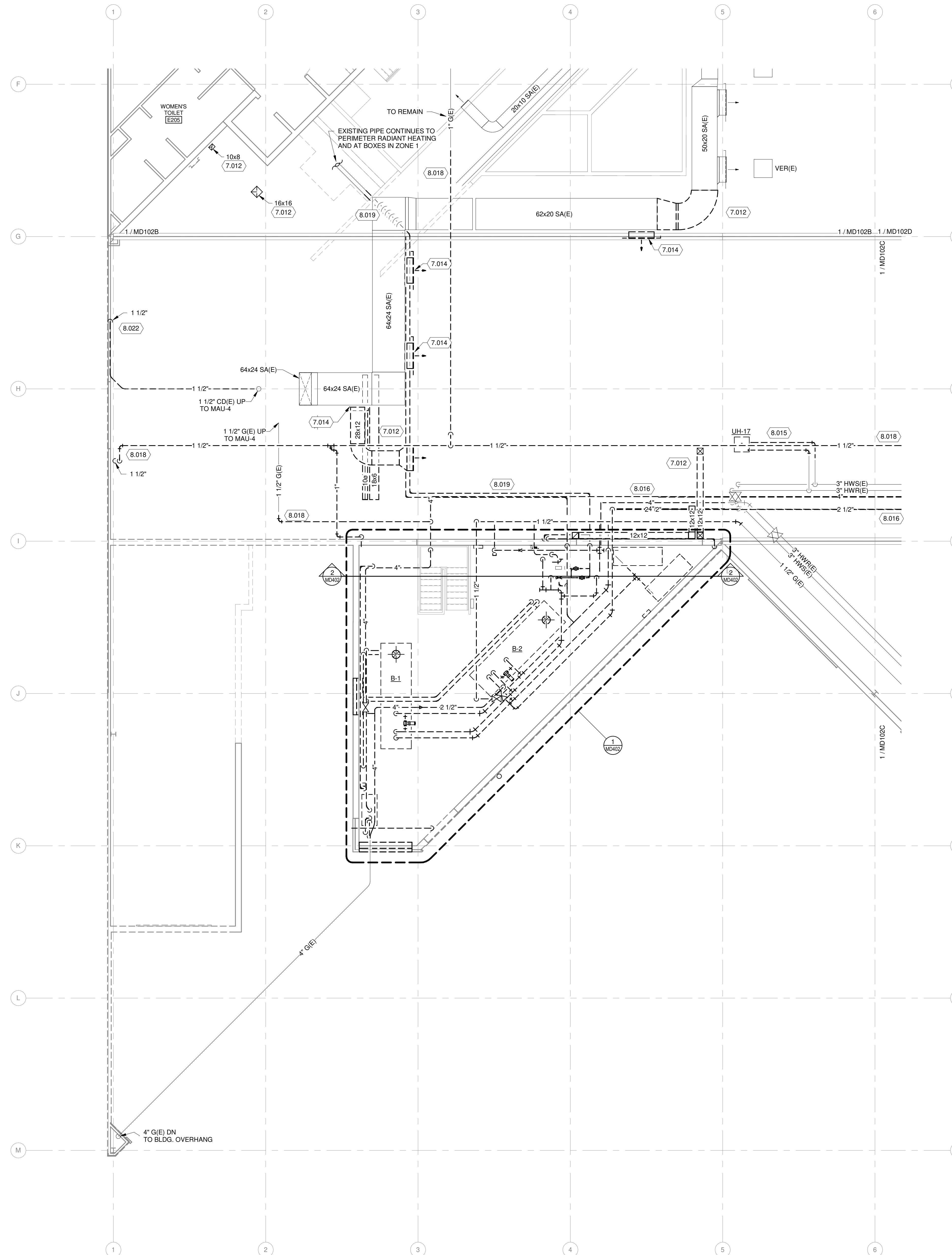


KEY PLAN



**FIRST FLOOR MECHANICAL DEMOLITION PLAN - AREA F**  
1/8" = 1'-0"

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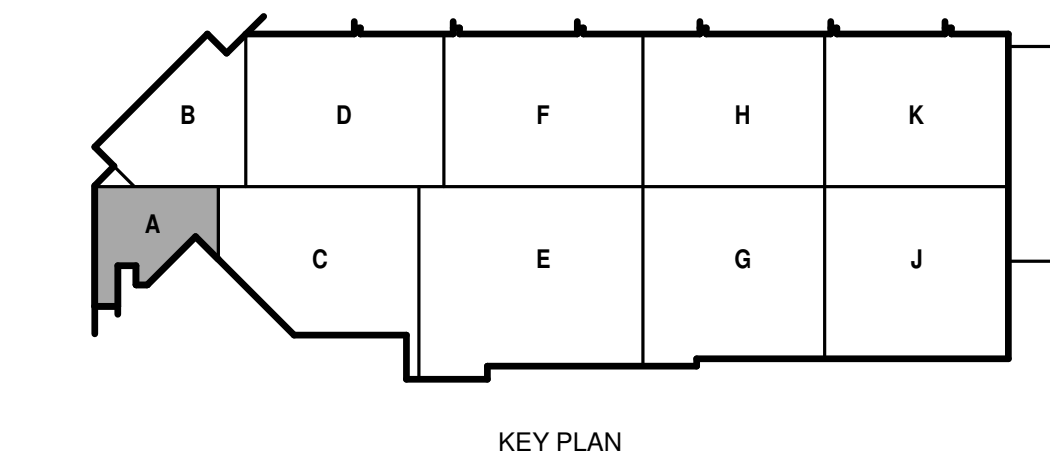
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**KEYED NOTES**

- 7.012 DEMO DUCTWORK AS SHOWN.
- 7.014 REMOVE EXISTING TAKEOFF AND CAP REMAINING DUCT OPENING AIR-TIGHT.
- 8.015 DEMO UNIT HEATER OR CABINET UNIT HEATER, PIPING, CONTROL WIRING AND THERMOSTAT. ALL CONTROL RACEWAY AND WIRING SHALL BE REMOVED.
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- 8.018 DEMO NATURAL GAS PIPING AS SHOWN. ALL HANGARS, SUPPORTS TO BE REMOVED.
- 8.019 DEMO HOT WATER PIPING AS SHOWN. ALL HANGARS, SUPPORTS TO BE REMOVED.
- 8.022 REMOVE DRAIN LINE SERVING MAU-4.

**SECOND FLOOR MECHANICAL DEMOLITION PLAN - AREA A**  
1/8" = 1'-0"



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**CITY OF MADISON  
METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS**  
1101 EAST WASHINGTON AVE.  
MADISON, WI 53703

ISSUED  
04/08/21 BID SET

CONTRACT NO.: 8981  
M&H NO.: 4503500-190896.03  
DATE: APRIL 8, 2021  
DESIGNED BY: DJG  
DRAWN BY: RRW  
CHECKED BY: SNW  
DO NOT SCALE DRAWINGS

SHEET CONTENTS  
SECOND FLOOR MECHANICAL DEMOLITION PLAN - AREA A

SHEET NO.:

**MD102A**



**GENERAL HVAC DEMOLITION NOTES**

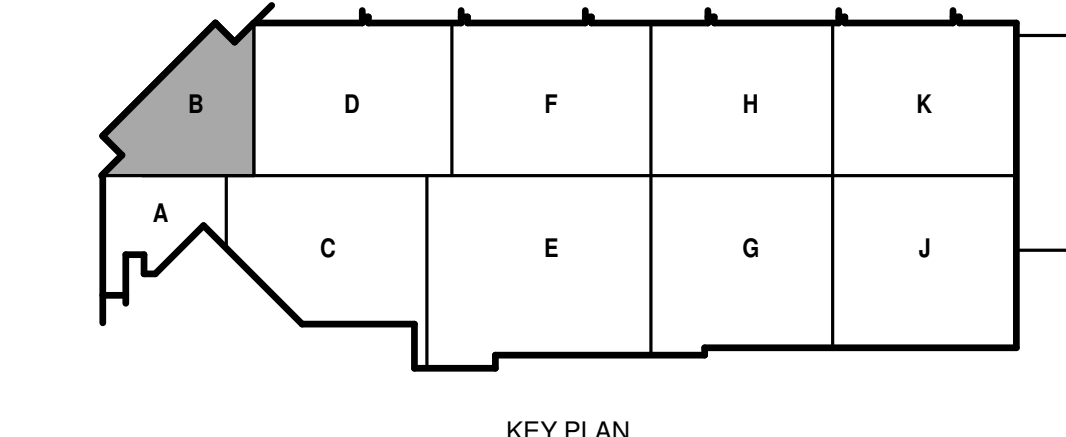
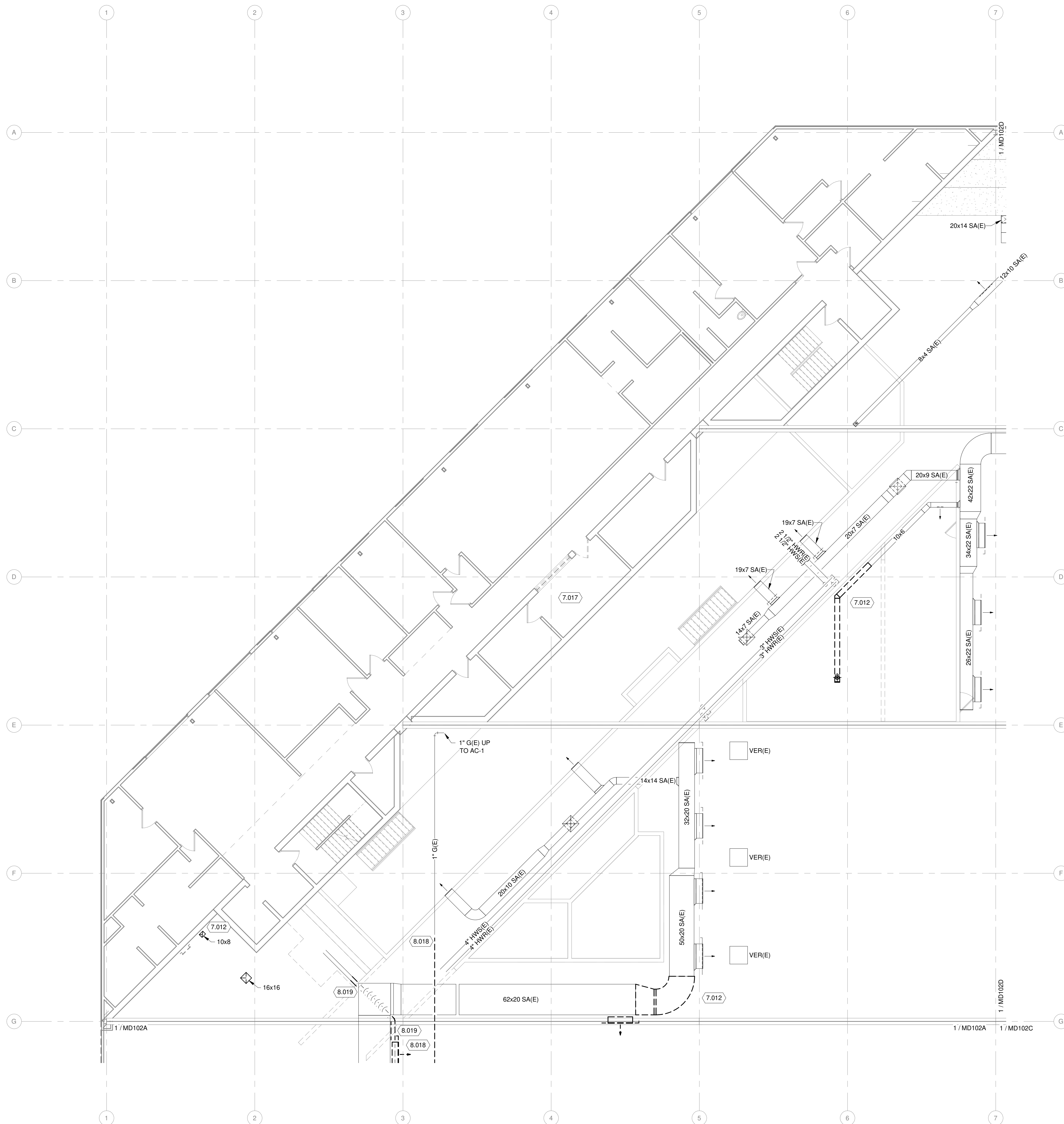
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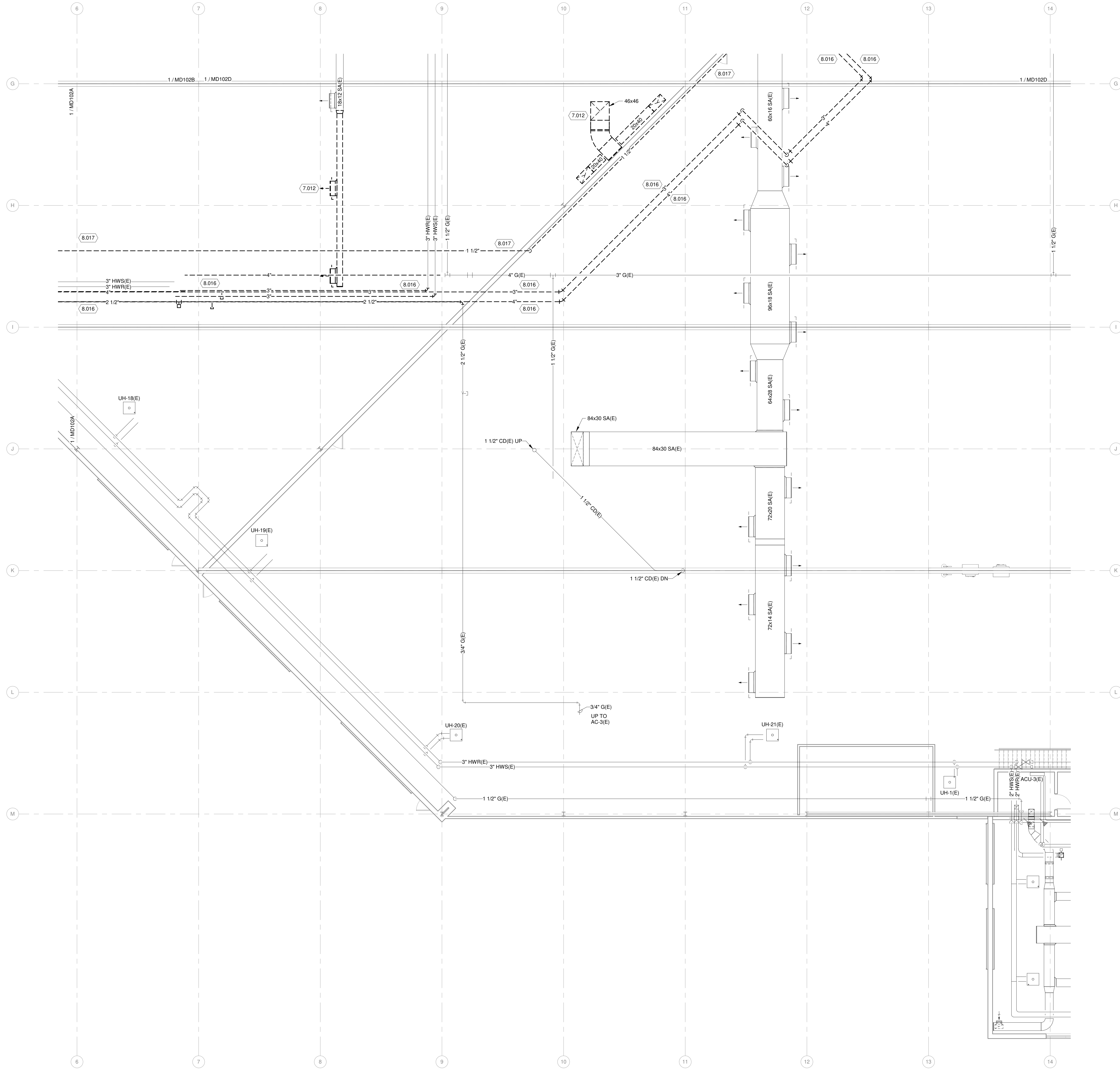
- 7.012 DEMO DUCTWORK AS SHOWN.
- 7.017 CONTRACTOR SHALL DEMO EXISTING CEILING DIFFUSER AND 6" DUCTWORK SERVING THIS ROOM BACK TO AT BOX AND CAP REMAINING OPENING AIR-TIGHT.
- 8.018 DEMO NATURAL GAS PIPING AS SHOWN. ALL HANGARS, SUPPORTS TO BE REMOVED.
- 8.019 DEMO HOT WATER PIPING AS SHOWN. ALL HANGARS, SUPPORTS TO BE REMOVED.



**1 SECOND FLOOR MECHANICAL DEMOLITION PLAN - AREA B**  
1/8" = 1'-0"



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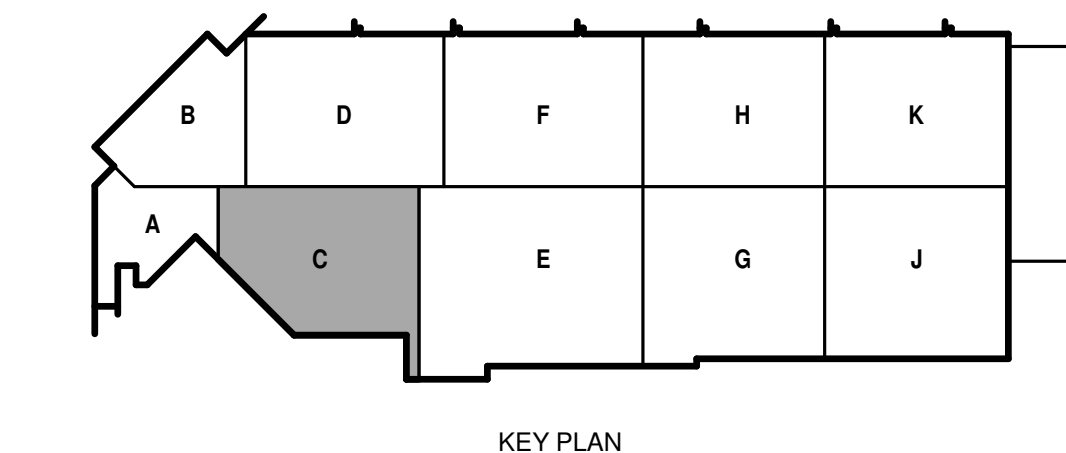
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7. WHERE PIPES ARE ROUTED INSIDE CMU WALLS, PIPE MAY BE ABANDONED IN PLACE. REMOVE PIPE TO 1" INSIDE WALL AT BOTH ENDS.
8. WHERE PIPES PASS THROUGH FLOOR SLABS, SAW-CUT SLAB AND REMOVE CONCRETE TO MINIMUM EXTENT NECESSARY TO GAIN ACCESS BELOW SLAB. REMOVE PIPE DOWN TO HORIZONTAL PIPING BELOW FLOOR. SEAL AND CAP ABANDONED PIPE ENDS.
9. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL TRADES. PATCH EXISTING ROOFS, WALLS, AND FLOORS DISTURBED BY DEMOLITION. RESTORE TO MATCH CONDITION OF ORIGINAL SURROUNDING SURFACES.

**KEYED NOTES**

- 7.012 DEMO DUCTWORK AS SHOWN.
- 8.016 ALL HOT WATER PIPING SERVING MAINTENANCE B AREA SHALL BE REMOVED BY THIS CONTRACTOR. ALL HANGARS, SUPPORTS TO BE REMOVED.
- 8.017 ALL DIESEL AND NATURAL GAS FUEL PIPING TO GENERATOR FROM THE BOILER ROOM SHALL BE REMOVED BY THIS CONTRACTOR.

**SECOND FLOOR MECHANICAL DEMOLITION PLAN - AREA C**  
1/8" = 1'-0"





**CITY OF MADISON  
METRO TRANSIT PHASE 3A - MAINTENANCE AND  
DRIVER FACILITY IMPROVEMENTS  
1101 EAST WASHINGTON AVE.  
MADISON, WI 53703**

ISSUED  
04/08/21 BID SET

CONTRACT NO.: 8981  
RFP NO.: 4503500-1908996.03  
DATE: APRIL 8, 2021  
DESIGNED BY: DJG  
DRAWN BY: RRW  
CHECKED BY: SNW

DO NOT SCALE DRAWINGS  
SHEET CONTENTS  
SECOND FLOOR  
MECHANICAL  
DEMOLITION PLAN -  
AREA D

SHEET NO.:

**MD102D**

**GENERAL HVAC DEMOLITION NOTES**

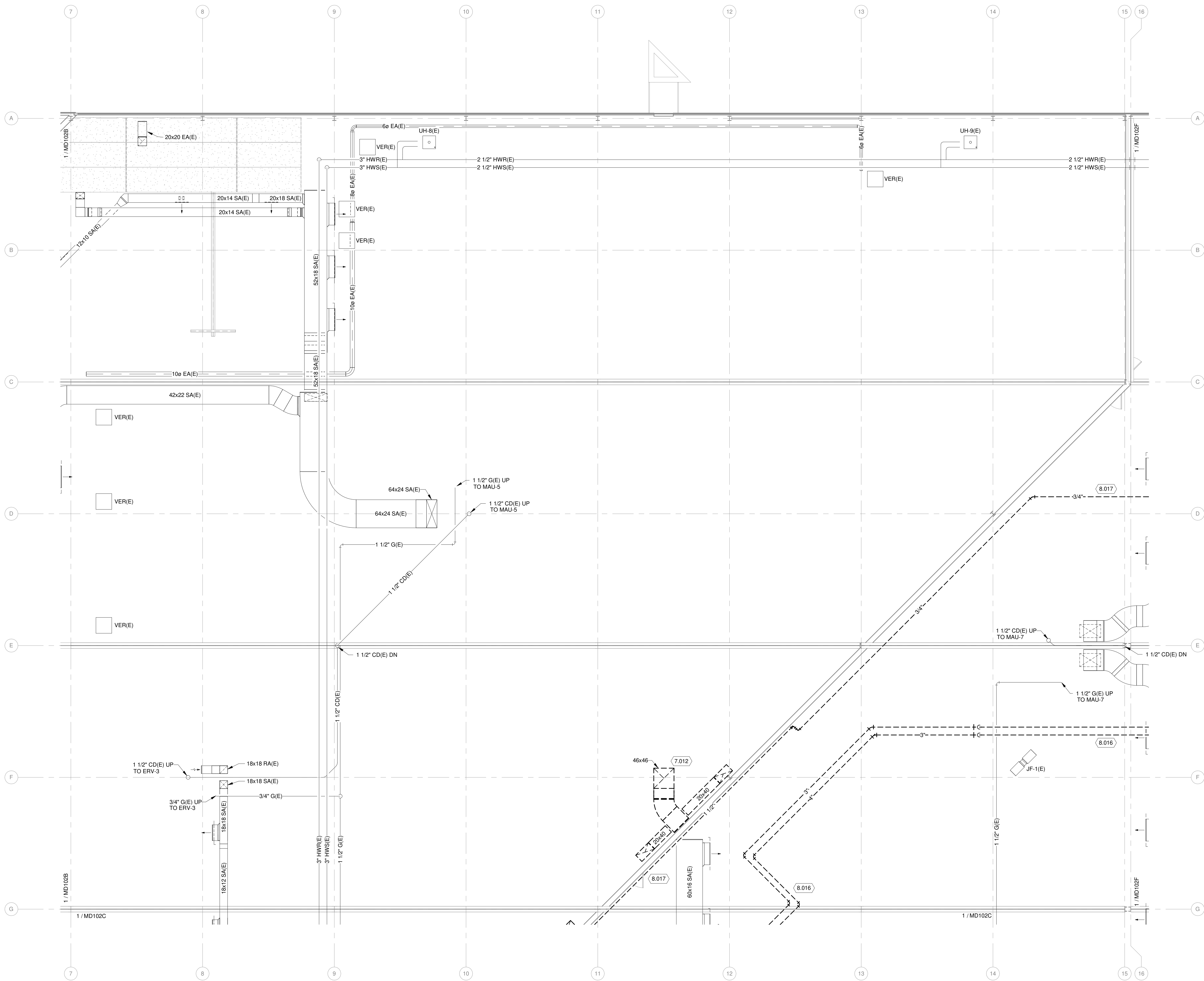
1. COMPLETELY DEMOLISH ALL EXISTING DUCTWORK AS SHOWN WITH BOLD DASHED LINES, INCLUDING ALL ABANDONED AND UNUSED ACCESSORIES, INSULATION, HANGER SUPPORTS, ETC. FOR REMAINING DUCT SYSTEM, PLUG OR CAP ALL OPENINGS CREATED BY DUCT DEMOLITION. TEST DUCTWORK AS SPECIFIED, AND INSULATE OR PAINT SAME AS NEW WORK. PATCH EXISTING WALLS, ROOFS, CEILINGS, AND FLOORS DISTURBED BY DEMOLITION TO ORIGINAL CONDITION.
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5. INSTALL TEMPORARY COVERS OVER EXISTING EXTERIOR ENVELOPE OPENINGS CREATED BY REMOVED EQUIPMENT/DUCT. COVER SHALL BE WATER-TIGHT, AND MEET OSHA AND OWNER REQUIREMENTS. COMPLETELY REMOVE TEMPORARY COVER WHEN OPENINGS ARE PATCHED TO FINAL CONDITION. REPAIR ANY DAMAGE TO EXISTING BUILDING COMPONENTS CAUSED BY TEMPORARY COVER.
6. WHERE BRANCH DUCTWORK IS SHOWN TO BE DEMOLISHED BACK TO THE MAIN DUCT AND THE EXISTING MAIN DUCT OPENING IS NOT TO BE RE-USED, CAP AND SEAL THE MAIN DUCT BRANCH OPENING AIR-TIGHT.

**GENERAL PIPING DEMOLITION NOTES**

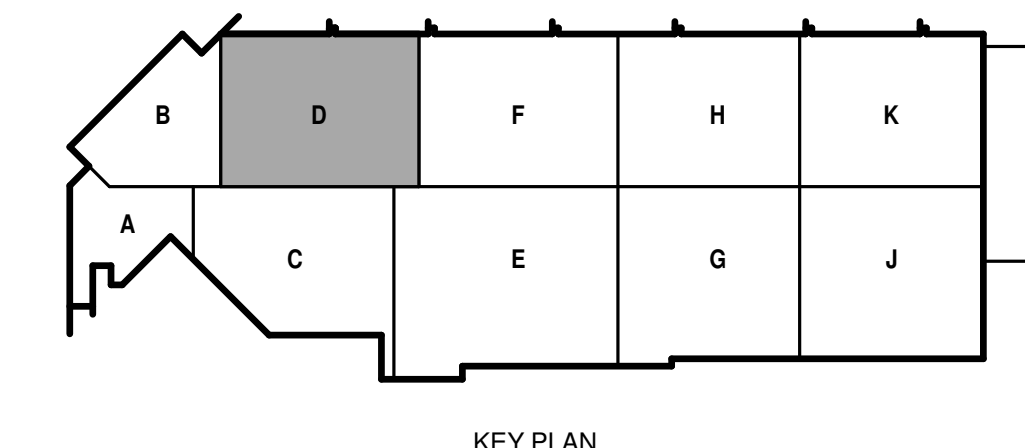
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**KEYED NOTES**

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**1 SECOND FLOOR MECHANICAL DEMOLITION PLAN - AREA D**  
1/8" = 1'-0"



4/7/2021 9:54:49 AM C:\Revit\Local\1908996.03-M-RP00-Arnoo\_rpwg\_wisings@meadhunt.com.rvt



**CITY OF MADISON  
METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS  
1101 EAST WASHINGTON AVE.  
MADISON, WI 53703**

ISSUED  
04/08/21 BID SET

CONTRACT NO.: 8981  
UBW NO.: 4503500-190896.03  
DATE: APRIL 8, 2021  
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CHECKED BY: SNW  
DO NOT SCALE DRAWINGS

SHEET CONTENTS  
SECOND FLOOR  
MECHANICAL  
DEMOLITION PLAN -  
AREA F

SHEET NO.:

**MD102F**

**GENERAL HVAC DEMOLITION NOTES**

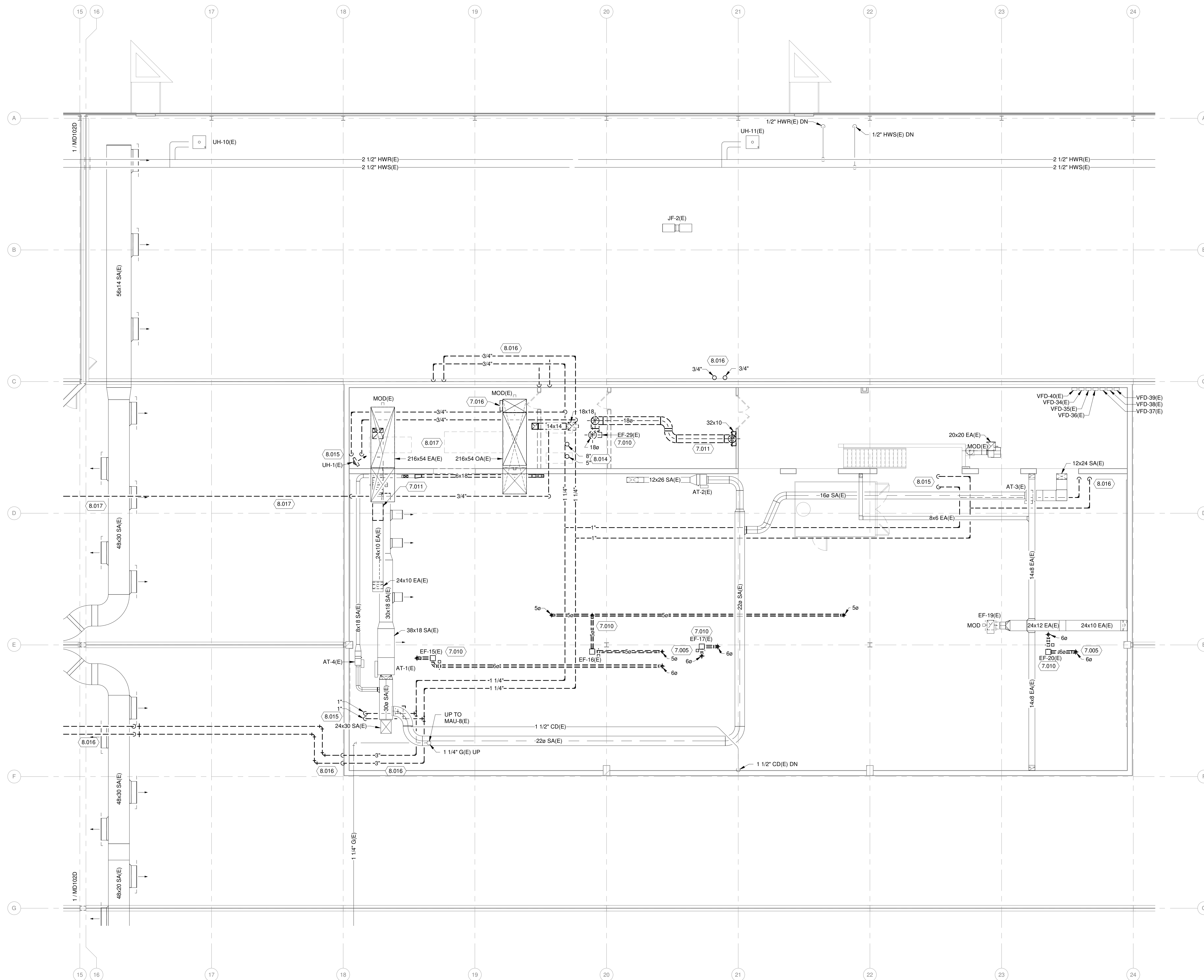
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**GENERAL PIPING DEMOLITION NOTES**

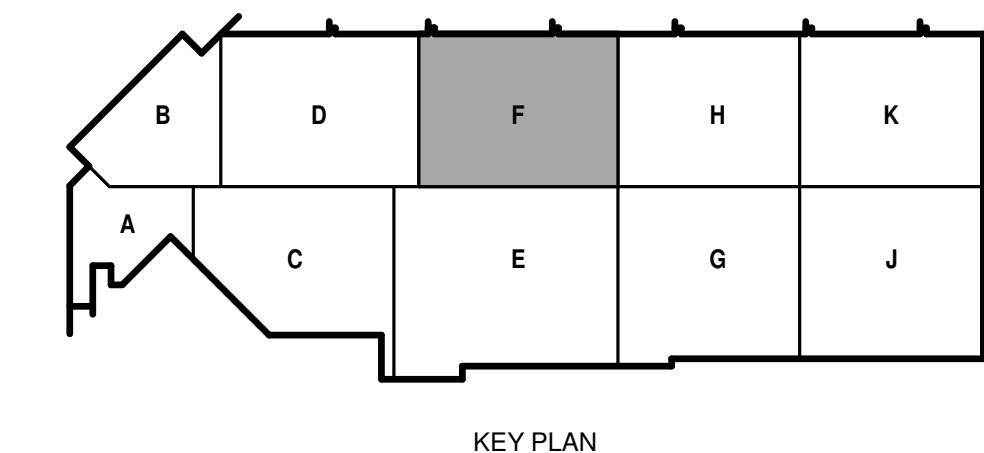
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**KEYED NOTES**

- 7.005 REMOVE ALL DUCTWORK VENT AND CURB FOR EXHAUST FAN ROOF DISCHARGE. CONTRACTOR SHALL PATCH ROOF OPENING.
- 7.010 DEMO EXHAUST FAN, ISOLATION DAMPER, AND ASSOCIATED DUCTWORK. ALL CONTROL RACEWAY AND WIRING SHALL BE REMOVED BACK TO TCP PANEL.
- 7.011 ALL DUCTWORK SHOWN TO THE AIR COMPRESSOR SHALL BE REMOVED.
- 7.016 REMOVE EXISTING EXHAUST FAN AND WIRING BACK TO SOURCE. PATCH REMAINING DUCTWORK OPENING AIR-TIGHT.
- 8.014 CONTRACTOR TO REMOVE GENERATOR EXHAUST PIPING AND MUFFLER. ALL FUEL PIPING, DAY TANK AND VENT SHALL BE REMOVED.
- 8.015 DEMO UNIT HEATER OR CABINET UNIT HEATER, PIPING, CONTROL WIRING AND THERMOSTAT. ALL CONTROL RACEWAY AND WIRING SHALL BE REMOVED.
- 8.016 ALL HOT WATER PIPING SERVING MAINTENANCE B AREA SHALL BE REMOVED BY THIS CONTRACTOR. ALL HANGARS, SUPPORTS TO BE REMOVED.
- 8.017 ALL DIESEL AND NATURAL GAS FUEL PIPING TO GENERATOR FROM THE BOILER ROOM SHALL BE REMOVED BY THIS CONTRACTOR.



**SECOND FLOOR MECHANICAL DEMOLITION PLAN - AREA F**  
1/8" = 1'-0"





**CITY OF MADISON**  
**METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS**  
 1101 EAST WASHINGTON AVE.  
 MADISON, WI 53703

ISSUED  
04/08/21 BID SET

CONTRACT NO.: 8981  
 MW NO.: 4503500-190896.03  
 DATE: APRIL 8, 2021  
 DESIGNED BY: DJG  
 DRAWN BY: RRW  
 CHECKED BY: SNW  
DO NOT SCALE DRAWINGS

SHEET CONTENTS  
 ROOF MECHANICAL DEMOLITION PLAN - AREAS A,B,C,D,E,F

SHEET NO.:

**MD103**

**GENERAL HVAC DEMOLITION NOTES**

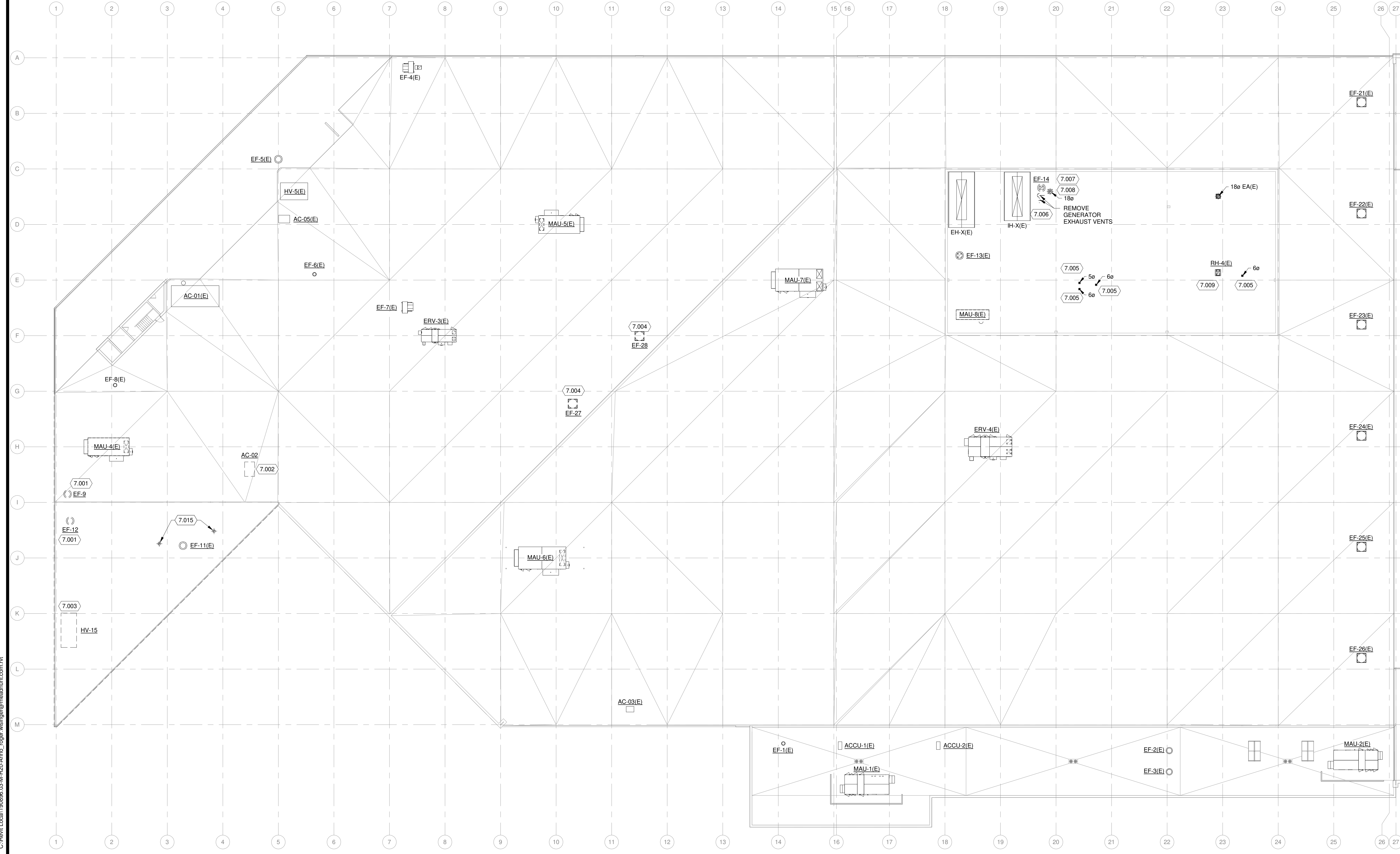
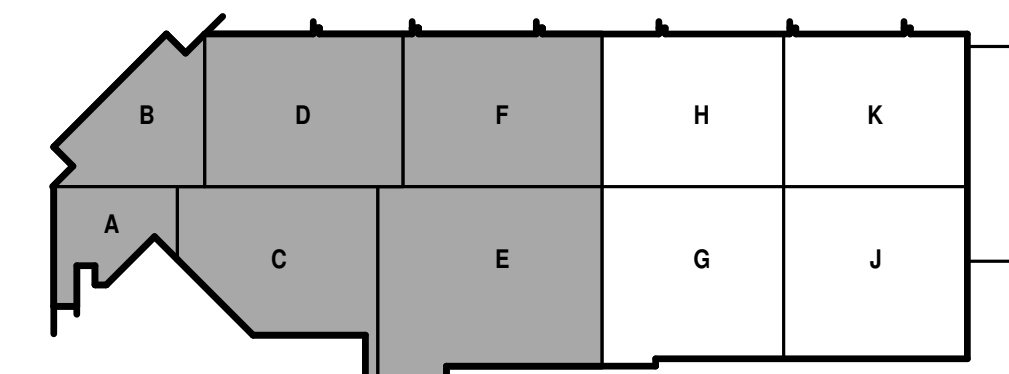
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**GENERAL PIPING DEMOLITION NOTES**

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**KEYED NOTES**

- 7.001 DEMO ROOF EXHAUST FAN AND CURB. CONTRACTOR SHALL PATCH ROOF OPENING. COORDINATE WITH DIVISION 07 CONTRACTOR FOR ROOFING REPAIRS.
- 7.002 DEMO EXISTING OUTDOOR AC UNIT AND CURB. REMOVE ALL REFRIGERATION PIPING. CONTRACTOR SHALL PATCH ROOF OPENINGS. COORDINATE WITH DIVISION 07 CONTRACTOR FOR ROOFING REPAIRS.
- 7.003 DEMO EXISTING MAKE-UP GAS FIRED ROOFTOP UNIT AND ROOF CURB. REMOVE ALL GAS PIPING. CONTRACTOR SHALL PATCH ROOF OPENING. COORDINATE WITH DIVISION 07 CONTRACTOR FOR ROOFING REPAIRS.
- 7.004 CONTRACTOR SHALL SALVAGE EXISTING EXHAUST FANS EF-27 AND EF-28 FOR REUSE. ROOF CURBS SHALL BE REMOVED. CONTRACTOR SHALL PATCH ROOF OPENINGS. COORDINATE WITH DIVISION 07 CONTRACTOR FOR ROOF REPAIRS.
- 7.005 REMOVE ALL DUCTWORK VENT AND CURB FOR EXHAUST FAN ROOF DISCHARGE. CONTRACTOR SHALL PATCH ROOF OPENING.
- 7.006 REMOVE GENERATOR EXHAUST VENTS AND ROOF CURBS. CONTRACTOR SHALL PATCH ROOF OPENING. COORDINATE WITH DIVISION 07 CONTRACTOR FOR ROOFING REPAIRS.
- 7.007 CONTRACTOR SHALL SALVAGE EXISTING EXHAUST FAN EF-14 FOR REUSE.
- 7.008 REMOVE EXISTING 18-INCH EXHAUST STACK AND CURB. CONTRACTOR SHALL PATCH ROOF OPENING. COORDINATE WITH DIVISION 07 FOR ROOF REPAIRS.
- 7.009 CONTRACTOR SHALL ONLY REMOVE EXHAUST HOOD. EXISTING CURB TO REMAIN. PROVIDE NEW RELIEF HOOD RH-4 ON EXISTING CURB.
- 7.015 REMOVE EXISTING 16-INCH BOILER VENT STACK. CONTRACTOR SHALL PATCH ROOF OPENING. COORDINATE WITH DIVISION 07 FOR ROOF REPAIRS.



**1 ROOF MECHANICAL DEMOLITION PLAN - AREAS A,B,C,D,E,F**  
 1" = 20'-0"

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**GENERAL HVAC DEMOLITION NOTES**

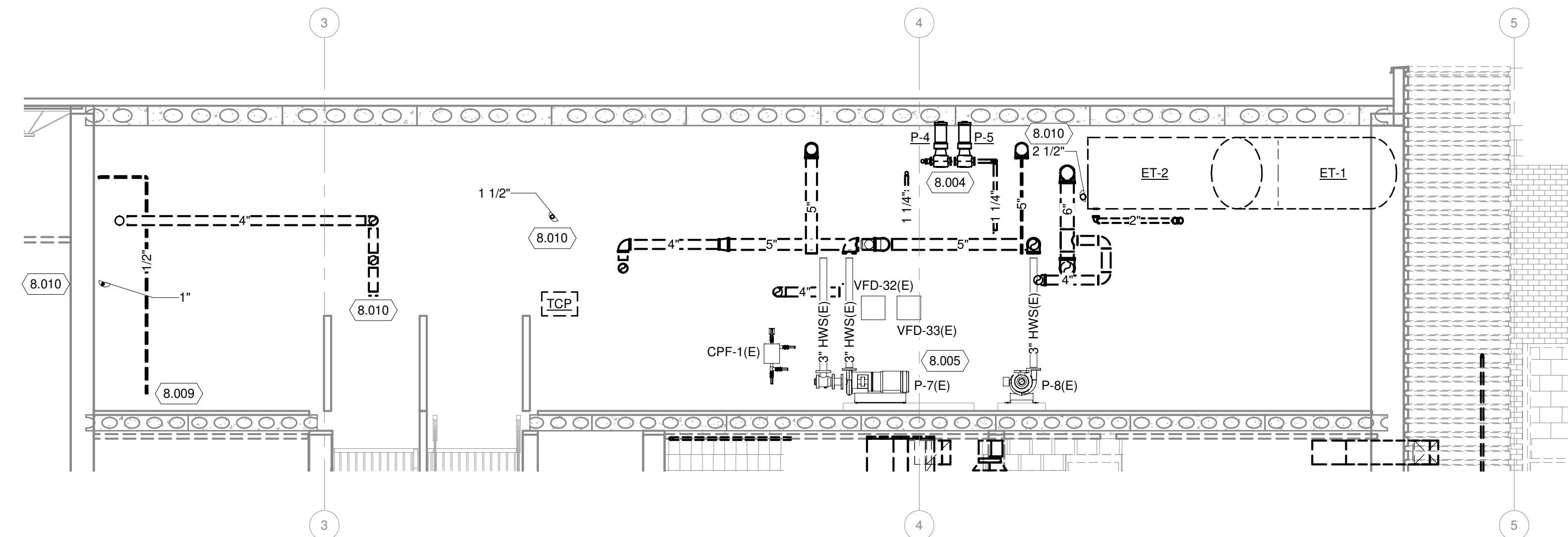
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**GENERAL PIPING DEMOLITION NOTES**

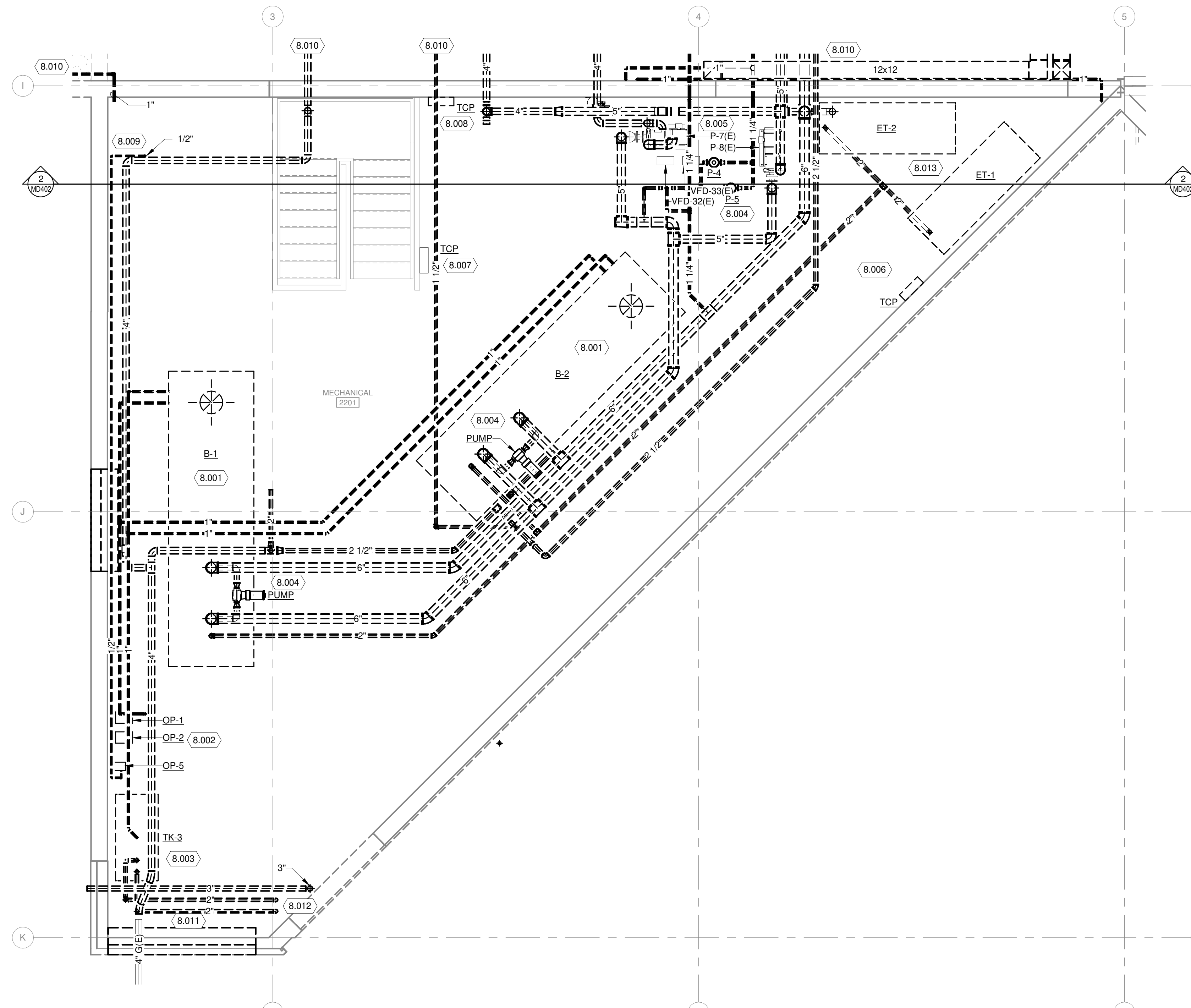
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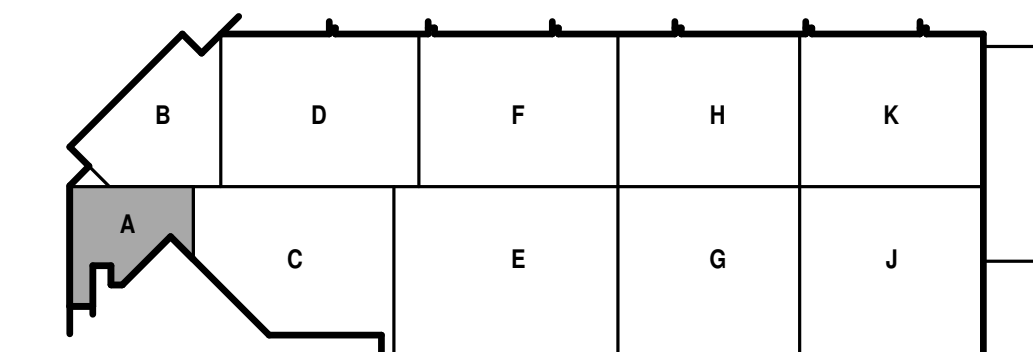
- 8.001 CONTRACTOR TO DEMO FIRED TUBE BOILERS, GAS TRAIN, VENT PIPING, BREECHING AND DRAIN LINES.
- 8.002 DEMO ALL FUEL OIL PIPING, PUMPS, VENTING AND CONTROLS. ALL CONDUITS AND WIRE TO BE REMOVED. EXISTING CONCRETE HOUSEKEEPING PAD SHALL BE REMOVED.
- 8.003 DEMO FUEL OIL DAY TANK AND VENTING PIPING. ALL CONDUITS AND WIRING TO BE REMOVED. EXISTING CONCRETE HOUSEKEEPING PAD SHALL BE REMOVED.
- 8.004 EXISTING IN-LINES PUMPS, PIPING AND ACCESSORIES TO BE DEMOLISHED. ALL PIPING HANGERS, RODS AND SUPPORTS TO BE REMOVED FOR ALL PIPING.
- 8.005 EXISTING BASE MOUNTED PUMPS (P-7 AND P-8), VFDs, WIRING AND ASSOCIATED PIPING ACCESSORIES SHALL REMAIN IN-PLACE. ALL HOT WATER PIPING DOWNSTREAM OF FLANGED ISOLATION VALVES SHALL BE DEMOLISHED.
- 8.006 EXISTING TEMPERATURE CONTROL PANEL AND RACEWAY SHALL BE REMOVED. RELOCATE CONTROL RELAY(S) FOR EXISTING MAU-5(E) TO NEARBY NEW DDC PANEL.
- 8.007 EXISTING DDC TEMPERATURE CONTROL PANEL IS EXISTING TO REMAIN FOR HOT WATER PUMP CONTROLS. ALL RACEWAY AND CONDUIT SERVING TCP PANEL TO REMAIN.
- 8.008 EXISTING PNEUMATIC TEMPERATURE CONTROL PANEL TO BE REMOVED.
- 8.009 CONTRACTOR TO DEMO GAS PIPING AND REGULATOR FOR EXISTING DOMESTIC WATER HEATER. REMOVE DOMESTIC WATER HEATER BREECHING. CONTRACTOR SHALL PATCH PRECAST ROOF OPENING. COORDINATE WITH DIVISION 07 CONTRACTOR FOR ROOF REPAIRS.
- 8.010 ALL GAS PIPING, RODS AND SUPPORTS IN THE MECHANICAL ROOM 2201 SHALL BE REMOVED. GAS PIPING THROUGH NORTH WALL INTO ADJACENT CORRIDOR SHALL BE DEMOLITION.
- 8.011 EXISTING COMBUSTION AIR LOUVER AND MANUAL DAMPER SHALL BE DEMOLISHED AND REPLACE WITH NEW LOUVER. CONTRACTOR TO PROVIDE NEW LOUVER WITH MODULATING DAMPER AND ACTUATOR.
- 8.012 DEMO EXISTING FUEL OIL LINE (FOS-FOR) AND VENT LINE SERVING UNDERGROUND FUEL TANK.
- 8.013 CONTRACTOR TO DEMO EXISTING HOT WATER EXPANSION TANKS, PIPING AND MAKE-UP WATER LINES. COORDINATE WITH FC.



**2 ENLARGED SECOND FLOOR BOILER ROOM MECHANICAL DEMOLITION SECTION**  
1/4" = 1'-0"



**1 ENLARGED SECOND FLOOR BOILER ROOM MECHANICAL DEMOLITION PLAN**  
1/4" = 1'-0"



KEY PLAN

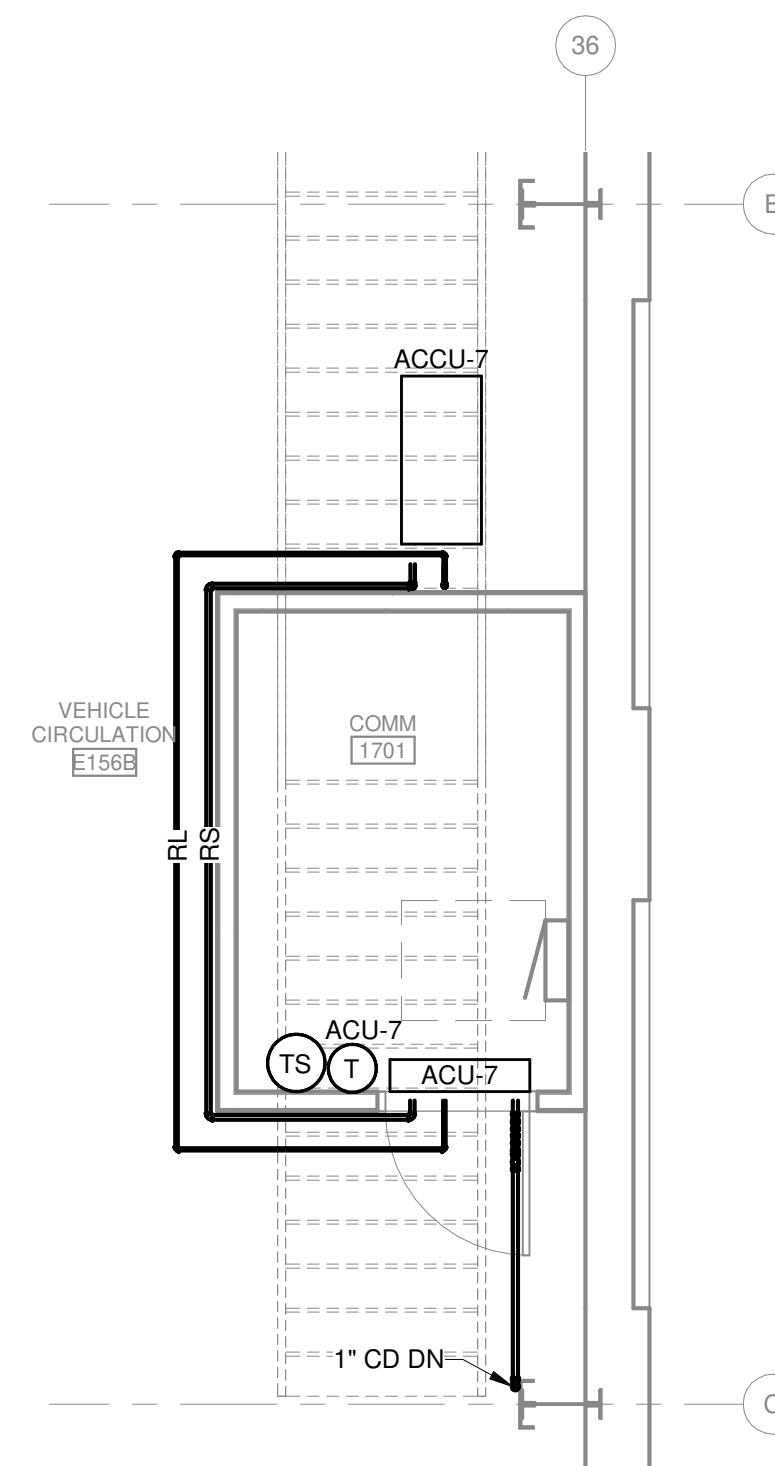


**GENERAL HVAC NOTES**

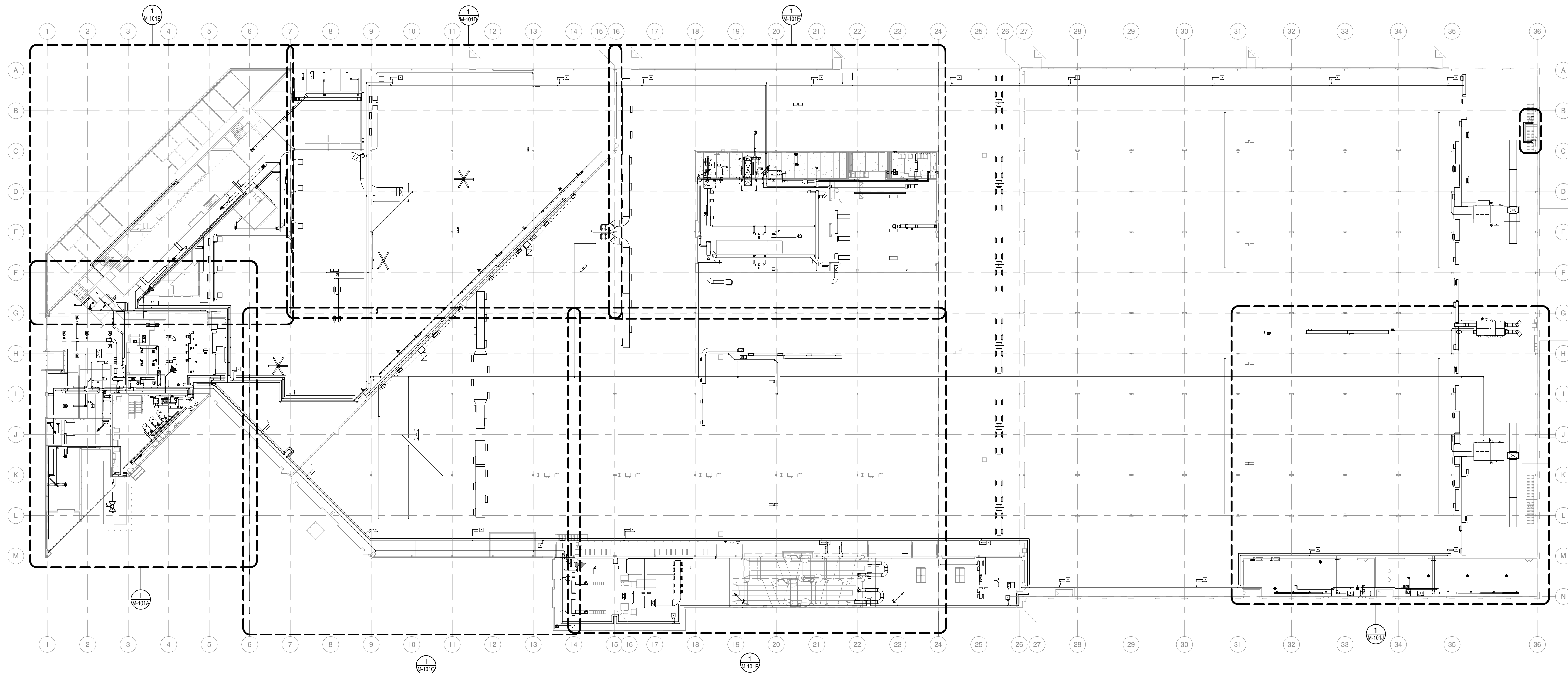
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**GENERAL PIPING NOTES**

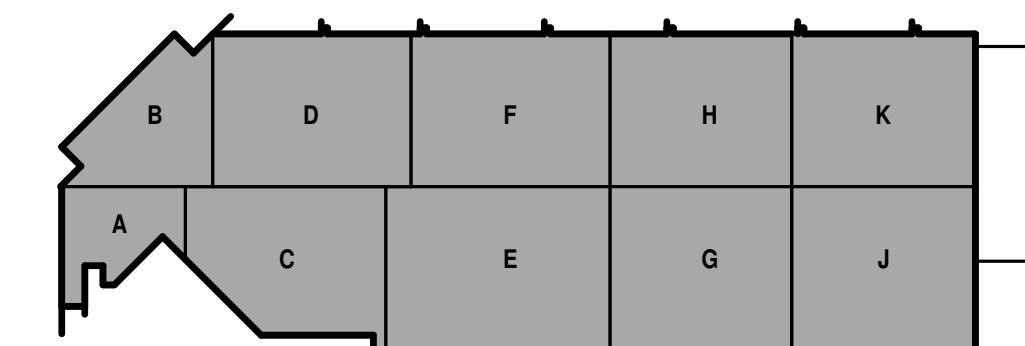
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**2 ENLARGED COMM RM. 1701**  
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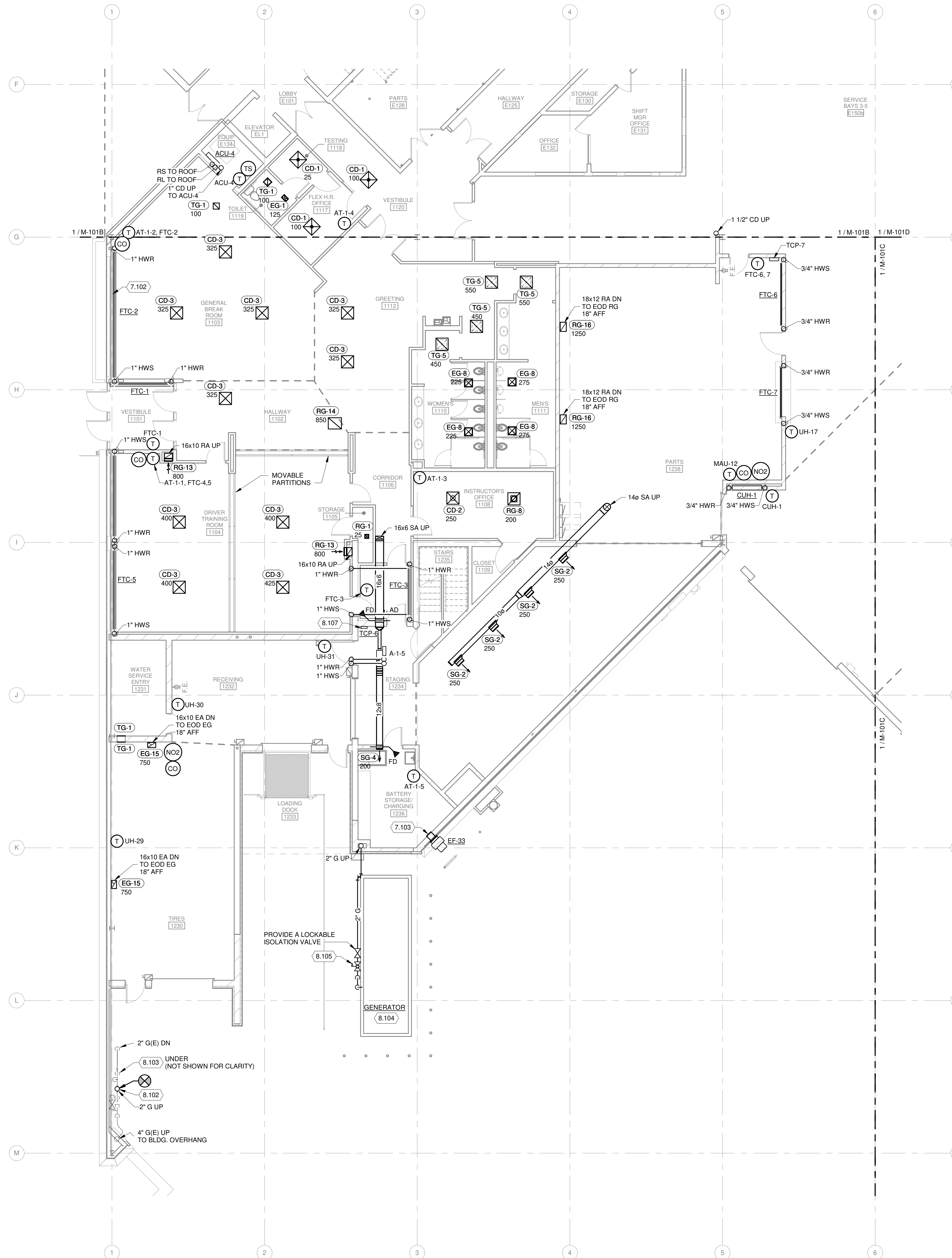


**1 OVERALL MECHANICAL PLAN**  
1/32" = 1'-0"



KEY PLAN

4/7/2021 9:50:57 AM C:\Revel Local\190696.03-M-P00-Ancor Roger Wisinger@meadhunt.com.rvt



### GENERAL HVAC NOTES

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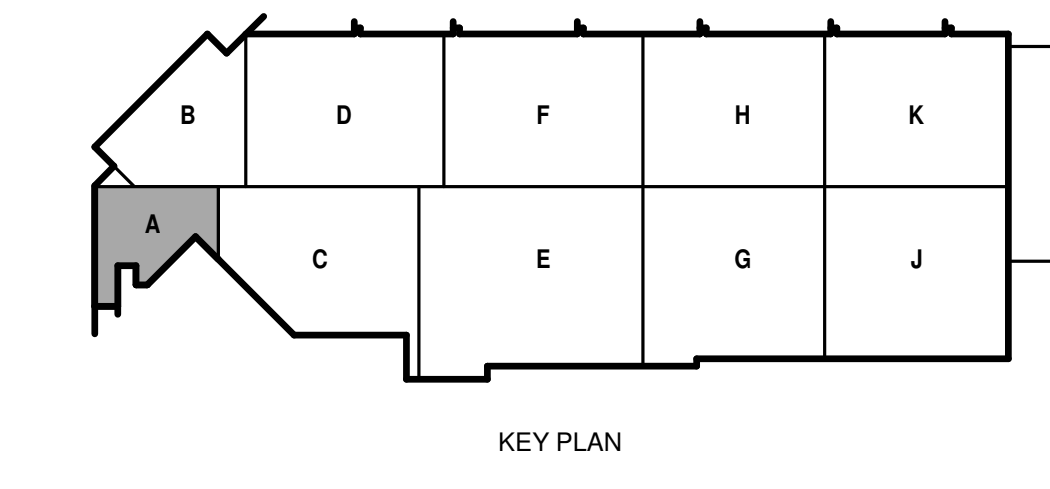
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### KEYED NOTES

- 7.102 INSTALL LD-1 ALONG ENTIRE LENGTH OF BANQUETTE SEATING IN THIS AREA. REFER TO AIR OUTLET AND INLET SCHEDULE AND DETAIL 15M-511.
- 7.103 INSTALL BIRD SCREEN OVER ENTIRE EXHAUST DUCT OPENING WITH SHEET METAL SCREWS.
- 8.102 PROVIDE NAMEPLATE AT VALVE STATING, "STANDBY POWER SUPPLY GAS SHUTOFF VALVE". REFER TO SPECIFICATION SECTION 23 11 00 FOR IDENTIFICATION.
- 8.103 PROVIDE NAMEPLATE AT VALVE STATING, "BUILDING MAIN GAS SHUTOFF VALVE". REFER TO SPECIFICATION SECTION 23 11 00 FOR IDENTIFICATION.
- 8.104 GENERATOR PROVIDE AND INSTALLED BY GENERAL CONTRACTOR. COORDINATE FINAL GAS PIPING LOCATION WITH GENERAL CONTRACTOR.
- 8.105 CONTRACTOR SHALL PROVIDE GAS PRESSURE REGULATOR FOR GAS GENERATOR. COORDINATE WITH ELECTRICAL CONTRACTOR. REFER TO SPECIFICATION SECTION 23 05 23 FOR GAS VALVES AND REGULATOR (GPRV).
- 8.107 CONTRACTOR TO INSTALL GENERATOR'S DDC MONITORING CONTROLLER INTO A MINIMUM 12"x12" TEMPERATURE CONTROL PANEL.

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



**CITY OF MADISON**  
**METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS**  
1101 EAST WASHINGTON AVE.  
MADISON, WI 53703

ISSUED 04/08/21 BID SET

CONTRACT NO.: 8981  
M&H NO.: 4503500-190896.03  
DATE: APRIL 8, 2021  
DESIGNED BY: DJG  
DRAWN BY: RRW  
CHECKED BY: SNW  
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SHEET CONTENTS  
FIRST FLOOR MECHANICAL PLAN - AREA A

SHEET NO.:

**M-101A**



**CITY OF MADISON  
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SHEET CONTENTS  
FIRST FLOOR  
MECHANICAL PLAN -  
AREA B

SHEET NO.:

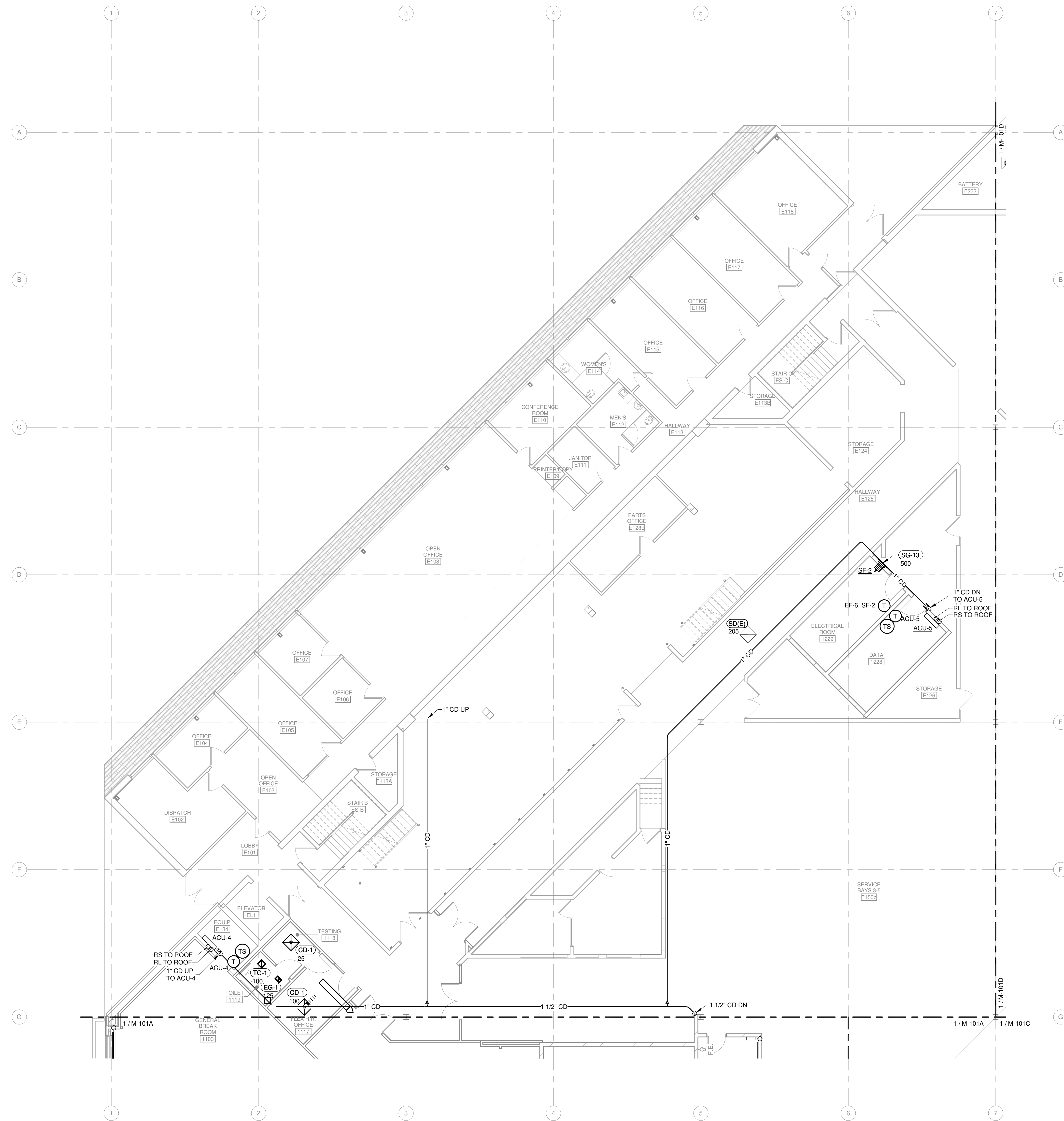
**M-101B**

**GENERAL HVAC NOTES**

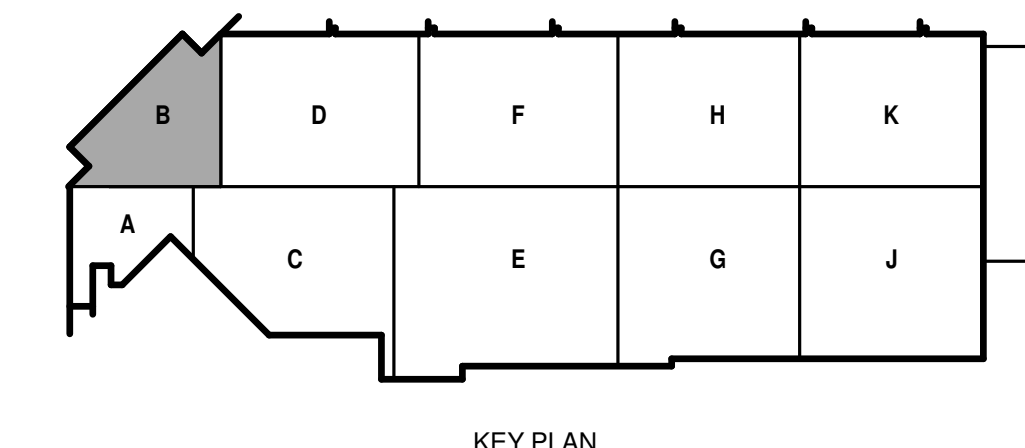
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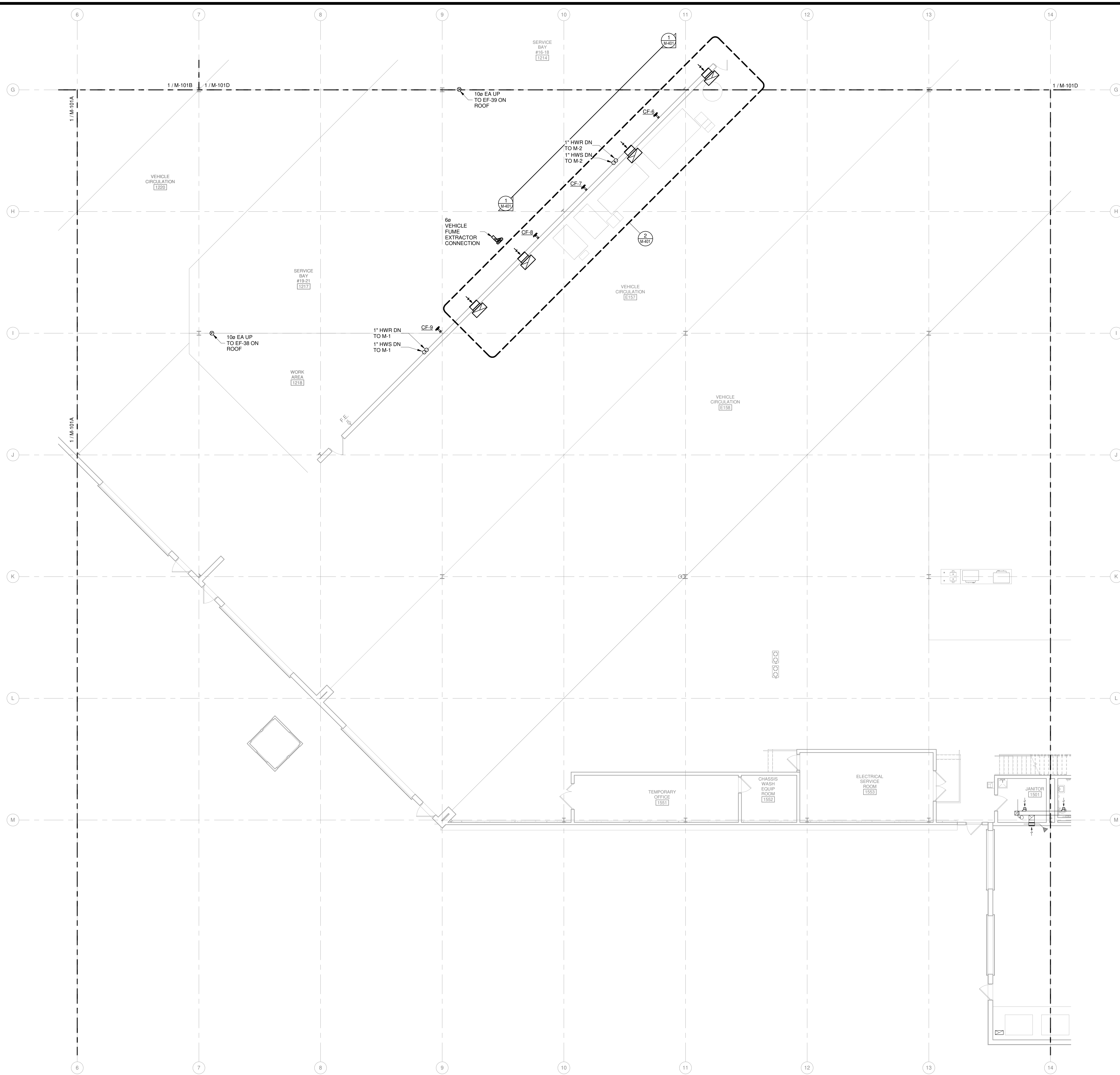


**1** FIRST FLOOR MECHANICAL PLAN - AREA B  
1/8" = 1'-0"





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**CITY OF MADISON  
 METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS  
 1101 EAST WASHINGTON AVE.  
 MADISON, WI 53703**

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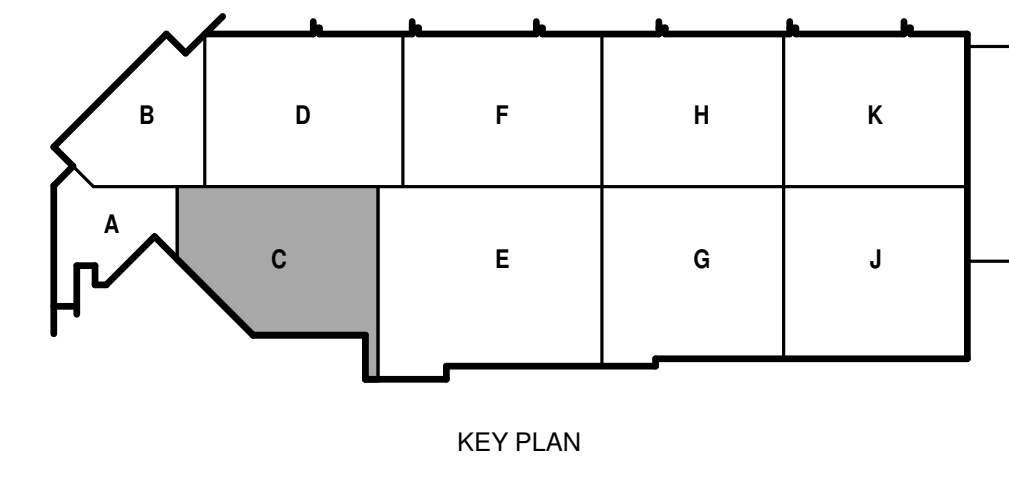
CONTRACT NO.: 8981  
 M&H NO.: 4503500-190696.03  
 DATE: APRIL 8, 2021  
 DESIGNED BY: DJG  
 DRAWN BY: RRW  
 CHECKED BY: SNW  
DO NOT SCALE DRAWINGS

SHEET CONTENTS  
 FIRST FLOOR MECHANICAL PLAN - AREA C

SHEET NO.:

**M-101C**

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





**CITY OF MADISON  
METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS**  
1101 EAST WASHINGTON AVE.  
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CONTRACT NO.: 8981  
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DRAWN BY: RRW  
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SHEET CONTENTS  
FIRST FLOOR  
MECHANICAL PLAN - AREA D

SHEET NO.:

**M-101D**

**GENERAL HVAC NOTES**

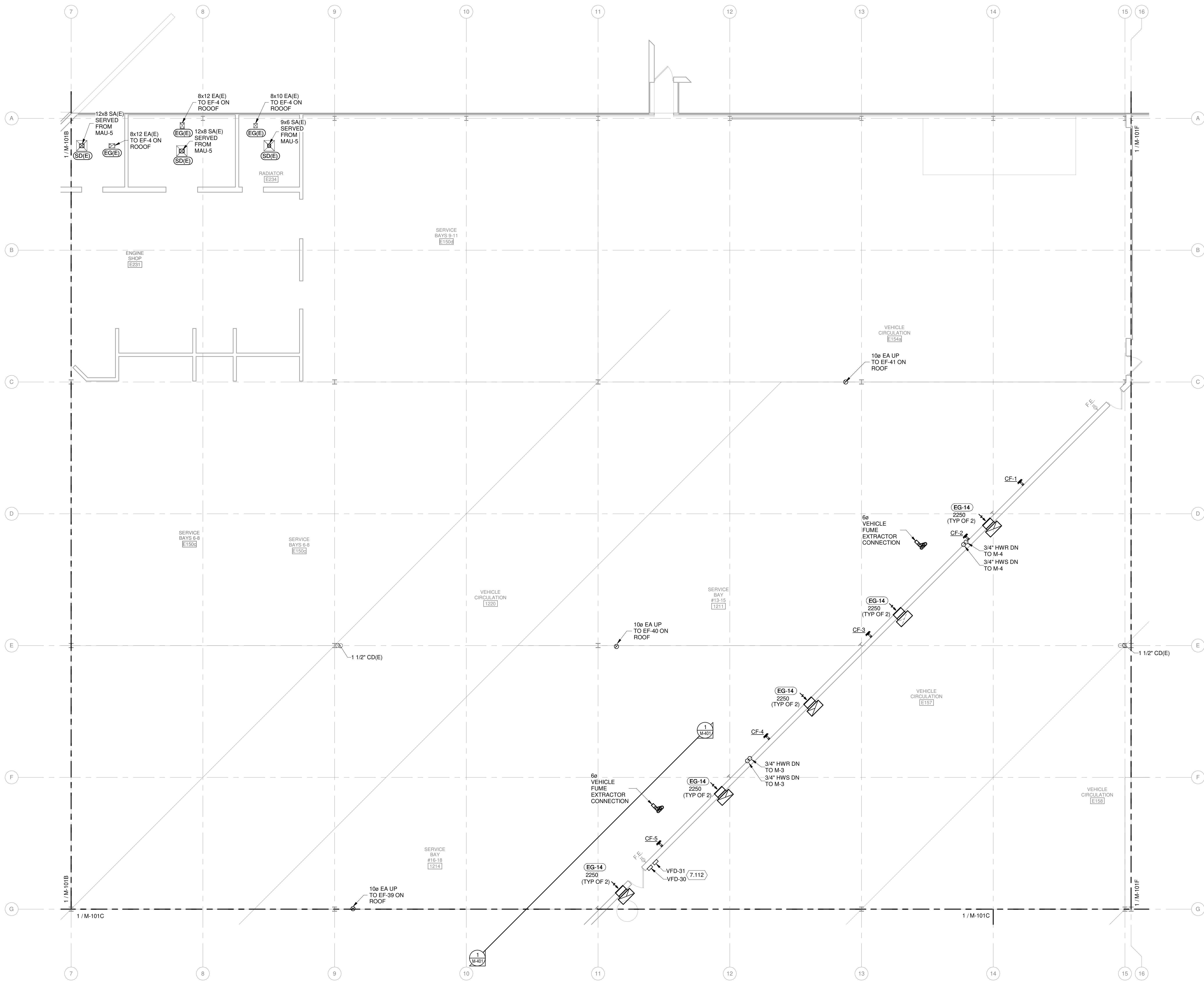
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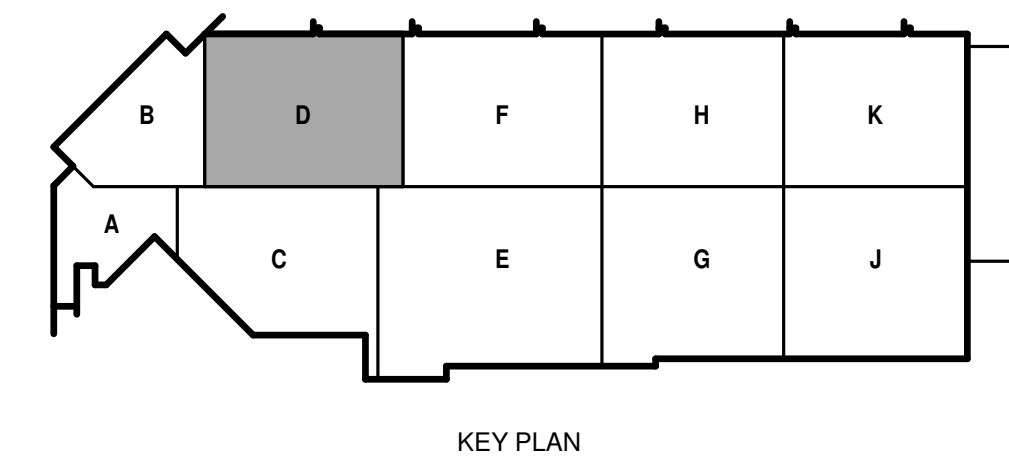
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**KEYED NOTES**

- 7.112 INSTALL SALVAGED VARIABLE FREQUENCY DRIVES IN THIS LOCATION.



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



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**GENERAL HVAC NOTES**

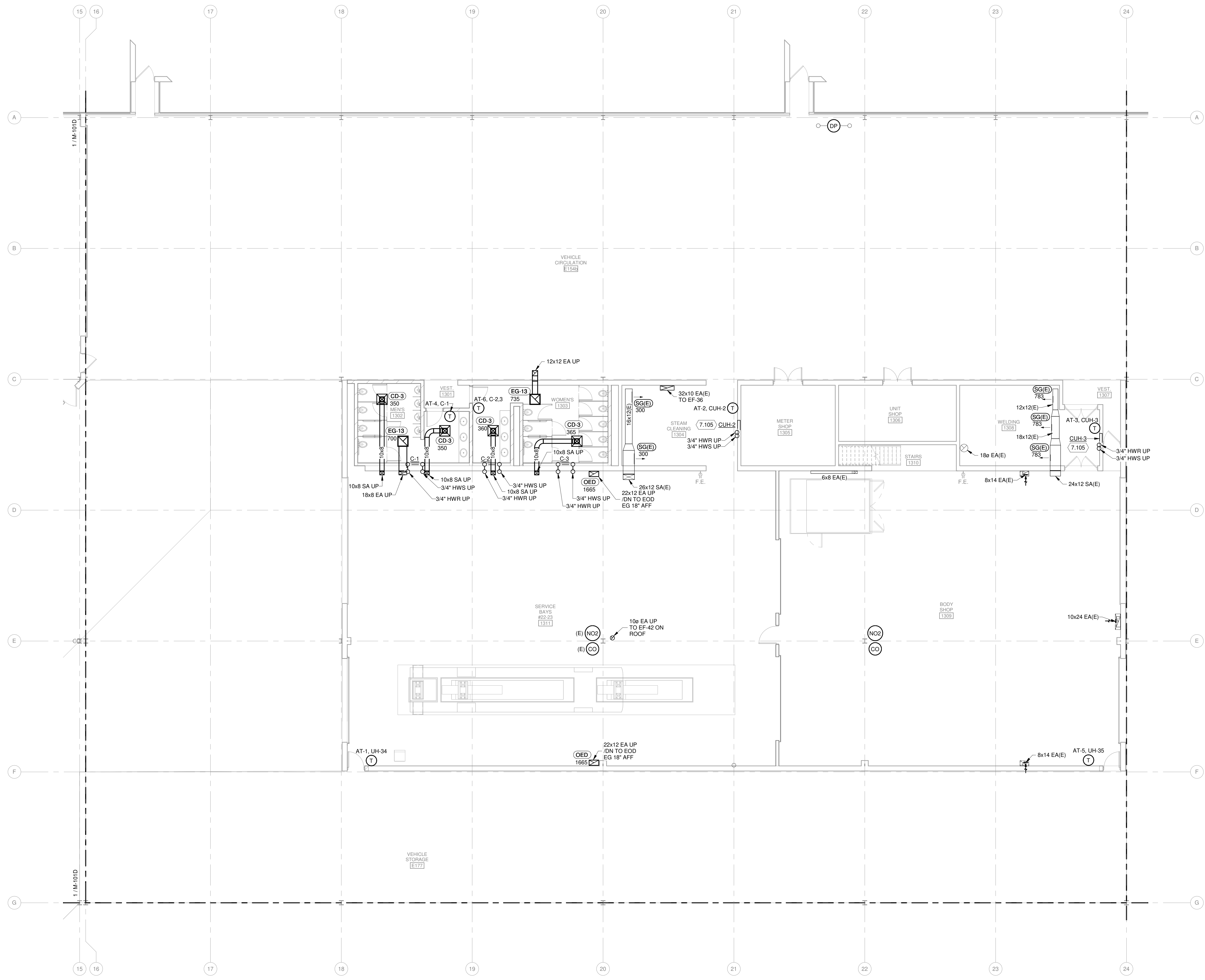
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8. ALTERNATE NO. 1, SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

**GENERAL PIPING NOTES**

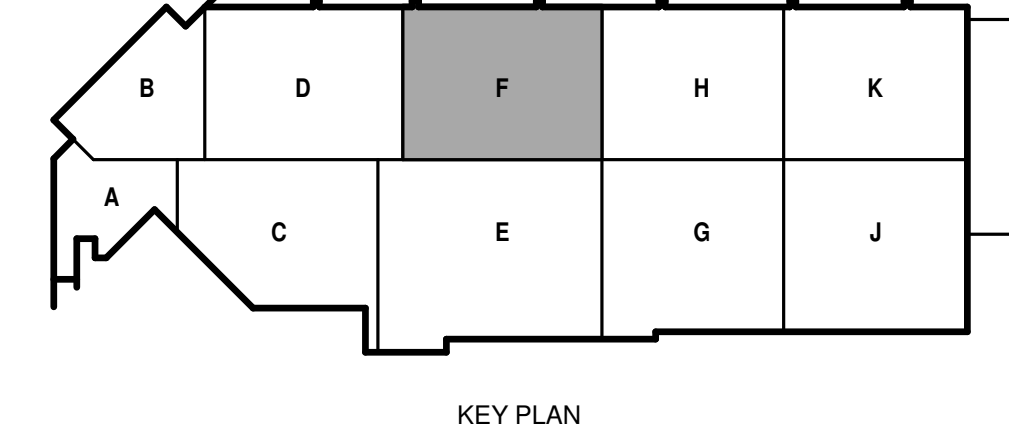
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**KEYED NOTES**

- 7.105 INSTALL NEW CABINET UNIT HEATER (CUH) IN THIS LOCATION. REFER TO SCHEDULE FOR MORE INFORMATION.



**FIRST FLOOR MECHANICAL PLAN - AREA F**  
1/8" = 1'-0"





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SHEET CONTENTS  
FIRST FLOOR HVAC  
PLAN - AREA J

SHEET NO.:

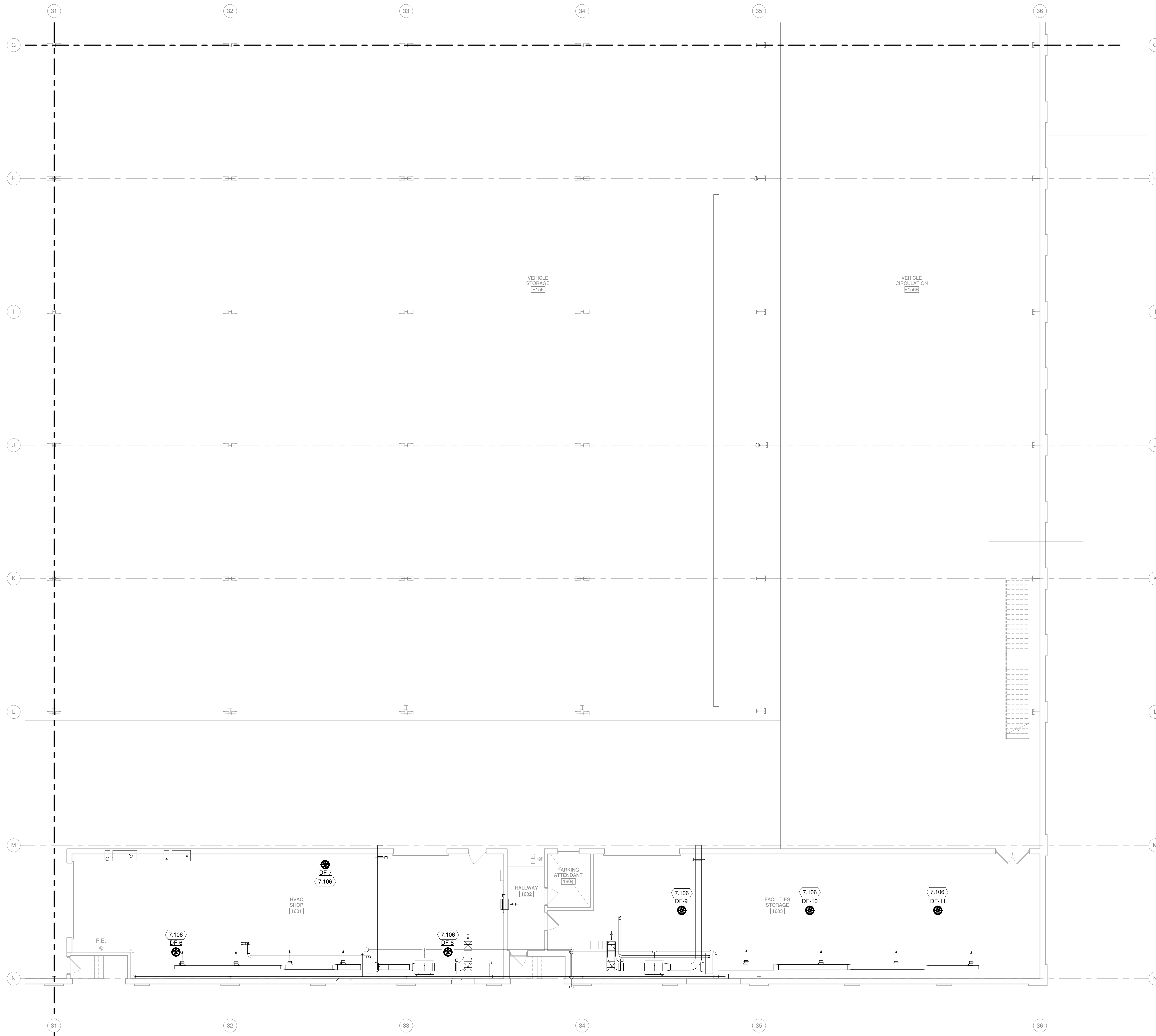
**M-101J**

**GENERAL HVAC NOTES**

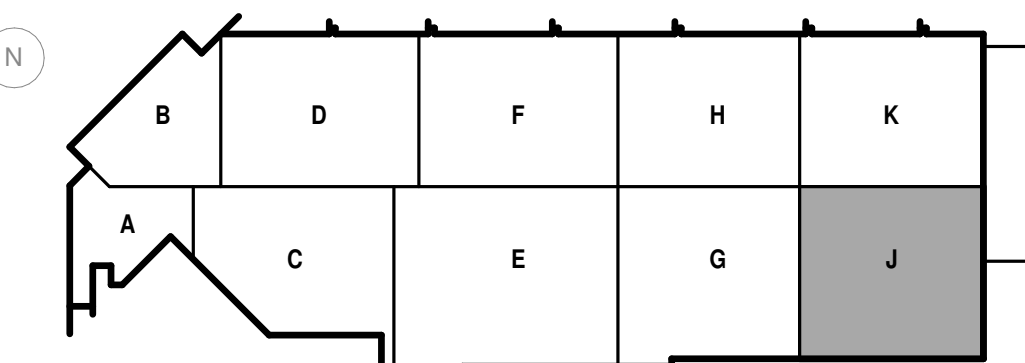
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7. PROVIDE PLENUM RATED INSULATION AND WIRING IN RETURN AIR CEILING PLENUM. MATERIALS WITHIN PLENUMS SHALL BE NON-COMBUSTIBLE OR SHALL HAVE A FLAME AND SMOKE SPREAD INDEX OF NOT MORE THAN 25/50 WHEN TESTED IN ACCORDANCE WITH ASTM E84.

**KEYED NOTES**

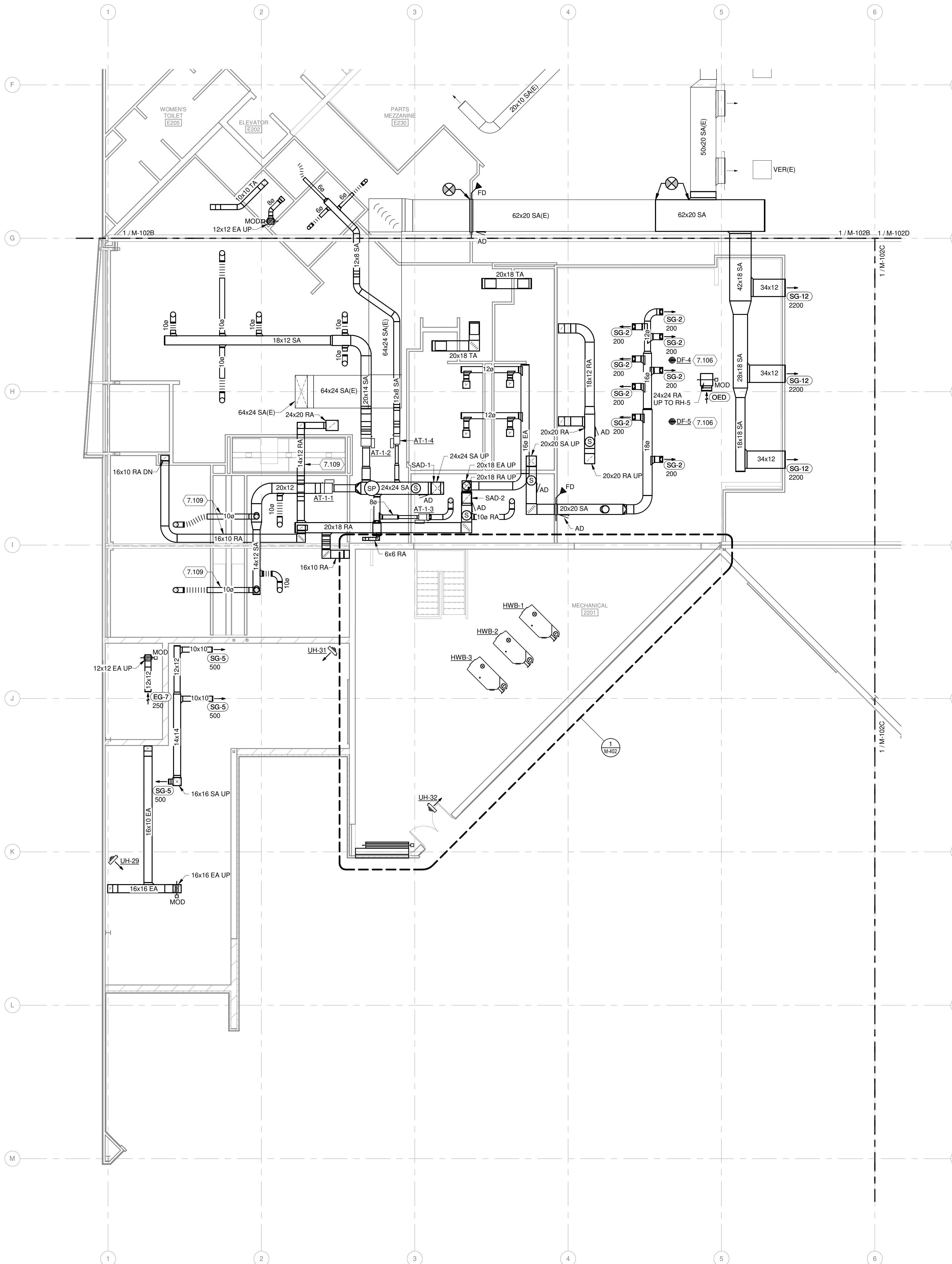
- 7.106 INSTALL NEW DESTRATIFICATION FAN (DF) IN THIS LOCATION. REFER TO SCHEDULE FOR MORE INFORMATION.



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



KEY PLAN



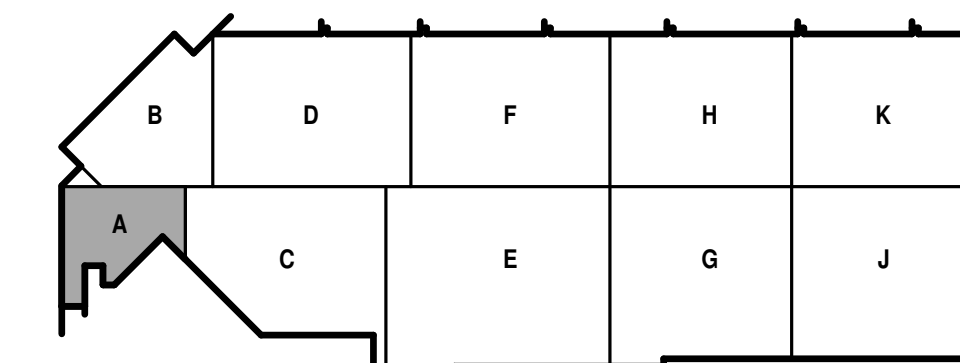
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### KEYED NOTES

- 7.106 INSTALL NEW DESTRATIFICATION FAN (DF) IN THIS LOCATION, REFER TO SCHEDULE FOR MORE INFORMATION.
- 7.109 INSTALL AND ROUTE THIS SECTION OF DUCTWORK IN JOIST SPACE.
- 8.106 CONTRACTOR SHALL INSTALL WELDED PIPING FITTINGS FOR GAS PIPING AS NOTED. CONTRACTOR TO PAINT INTERIOR GAS PIPING THE COLOR YELLOW. CONTRACTOR SHALL LABEL ALL GAS PIPING FOR NEW AND EXISTING AS "5 PSIG".

**1** SECOND FLOOR MECHANICAL PLAN - AREA A  
1/8" = 1'-0"



KEY PLAN

**Mead & Hunt**

Mead & Hunt, Inc.  
2440 Deming Way  
Middleton, WI 53562  
phone: 608-273-6380  
meadhunt.com



**CITY OF MADISON  
METRO TRANSIT PHASE 3A - MAINTENANCE AND  
DRIVER FACILITY IMPROVEMENTS**  
1101 EAST WASHINGTON AVE.  
MADISON, WI 53703

ISSUED  
04/08/21 BID SET

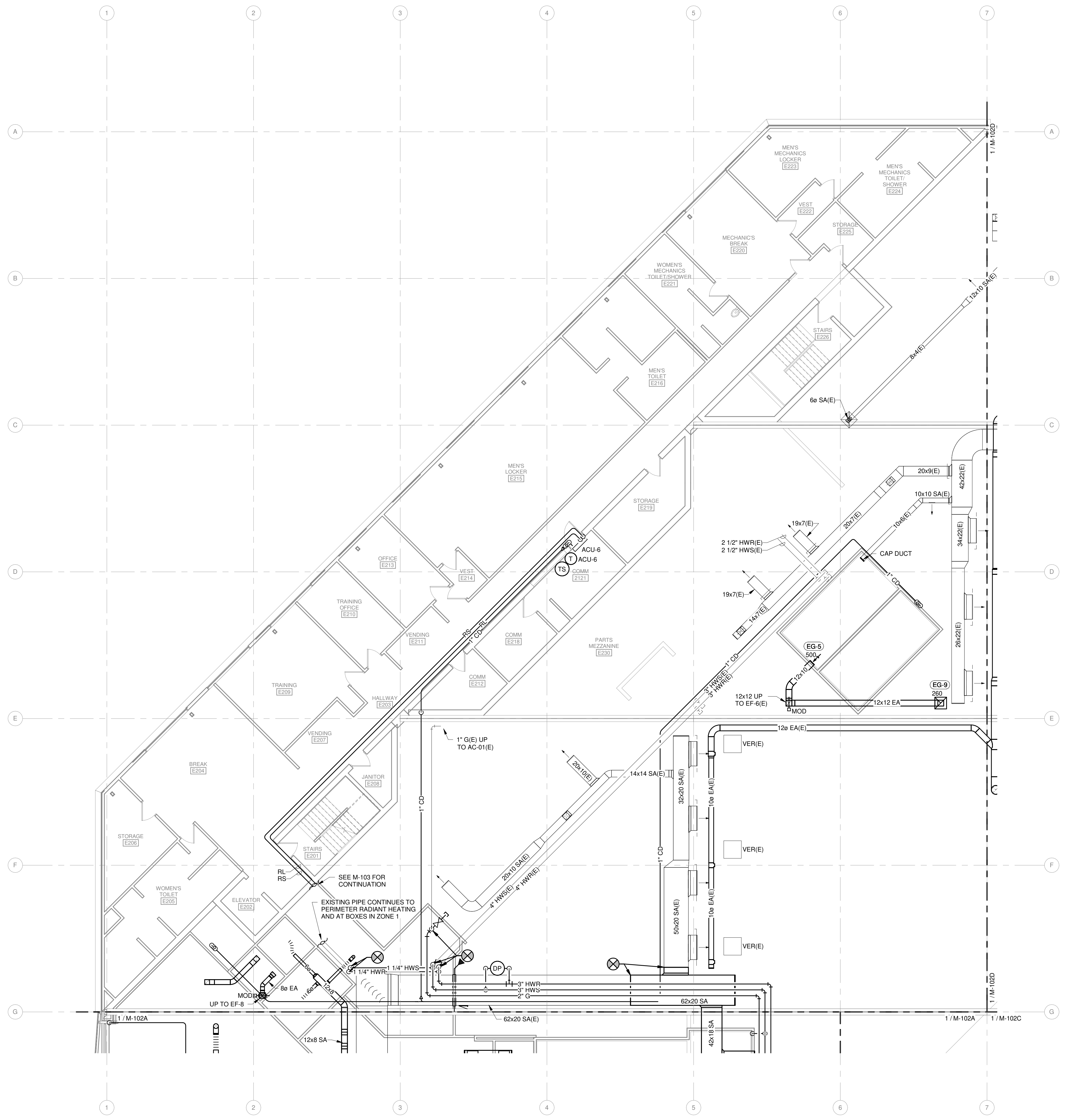
CONTRACT NO.: 8981  
RHW NO.: 4503500-1908996.03  
DATE: APRIL 8, 2021  
DESIGNED BY: DJG  
DRAWN BY: RRW  
CHECKED BY: SNW

DO NOT SCALE DRAWINGS  
SHEET CONTENTS  
SECOND FLOOR  
HVAC PLAN - AREA A

SHEET NO.:

**M-102A**

4/7/2021 9:51:52 AM C:\Revel\Local\190696.03\M-P20-Arno\_roger\_wesinger@meadhunt.com\1



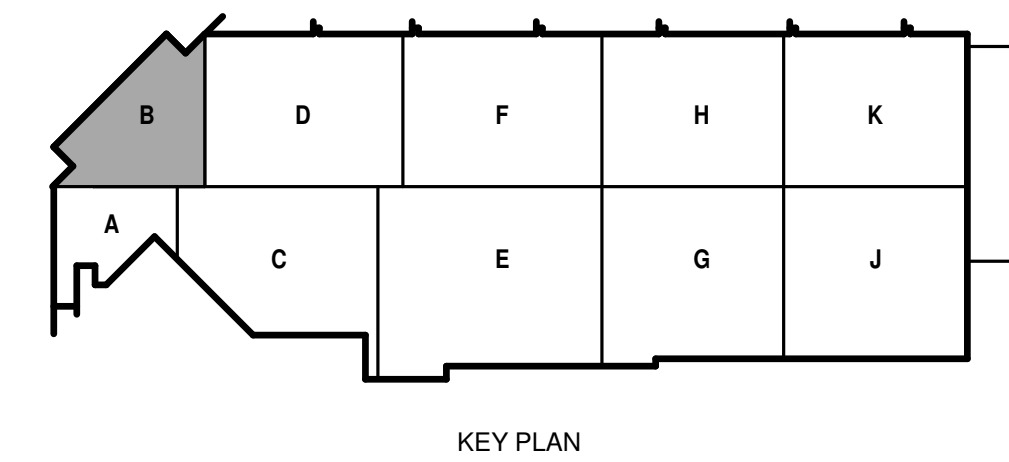
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**GENERAL PIPING NOTES**

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2. WELD-O-LETS AND THREAD-O-LETS MAY BE USED FOR BRANCH TAKE-OFFS UP TO ONE-HALF THE DIAMETER OF THE MAIN.
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**1 SECOND FLOOR MECHANICAL PLAN - AREA B**  
1/8" = 1'-0"



ISSUED 04/08/21 BID SET

CONTRACT NO.: 8981  
RHW NO.: 4503500-190696.03  
DATE: APRIL 8, 2021  
DESIGNED BY: DJG  
DRAWN BY: RRW  
CHECKED BY: SNW  
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SHEET CONTENTS  
SECOND FLOOR MECHANICAL PLAN - AREA B

SHEET NO.:



metro transit

**CITY OF MADISON  
METRO TRANSIT PHASE 3A - MAINTENANCE AND  
DRIVER FACILITY IMPROVEMENTS  
1101 EAST WASHINGTON AVE.  
MADISON, WI 53703**

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SHEET CONTENTS  
SECOND FLOOR  
MECHANICAL PLAN -  
AREA C

SHEET NO.:

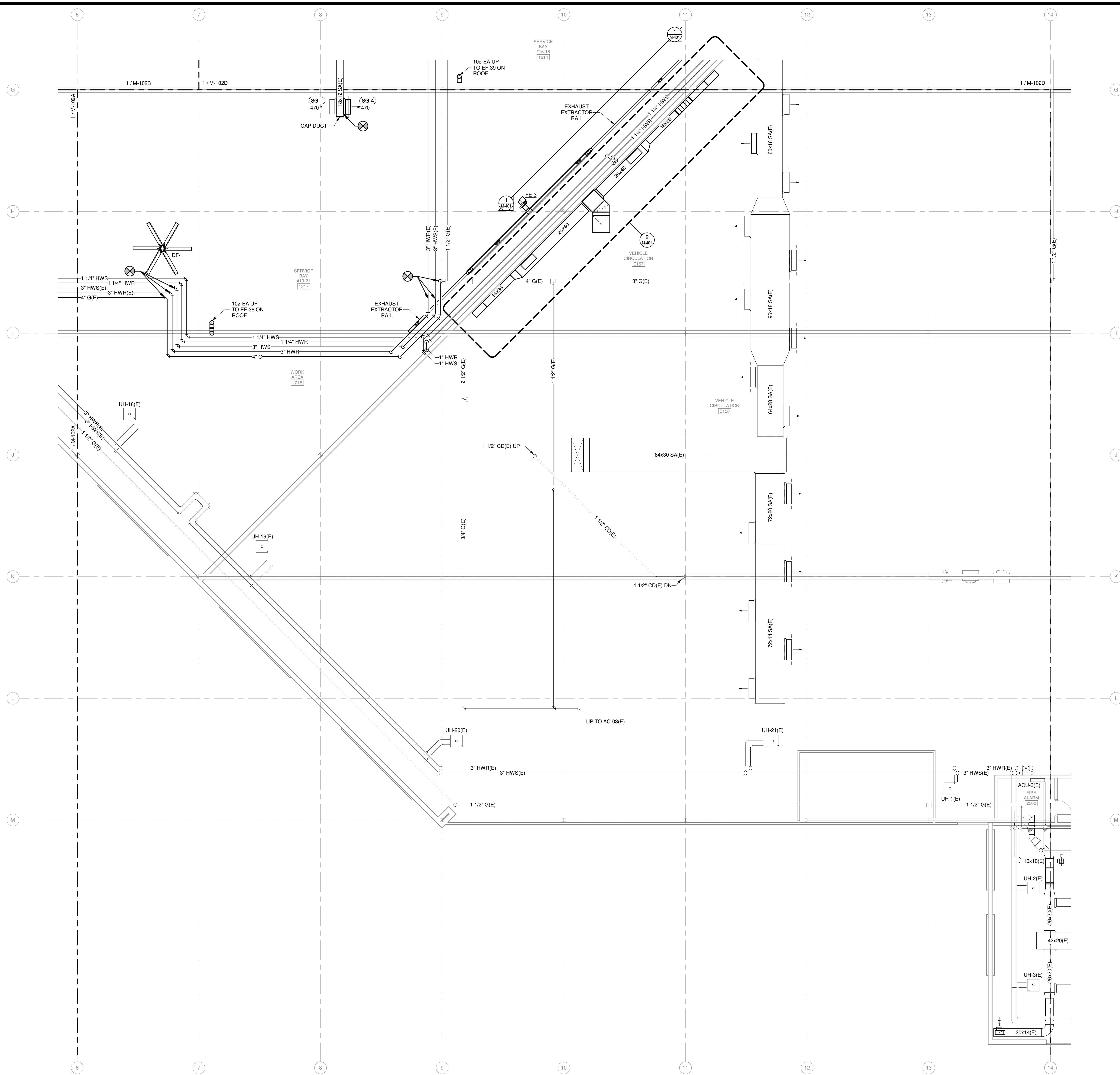
**M-102C**

**GENERAL HVAC NOTES**

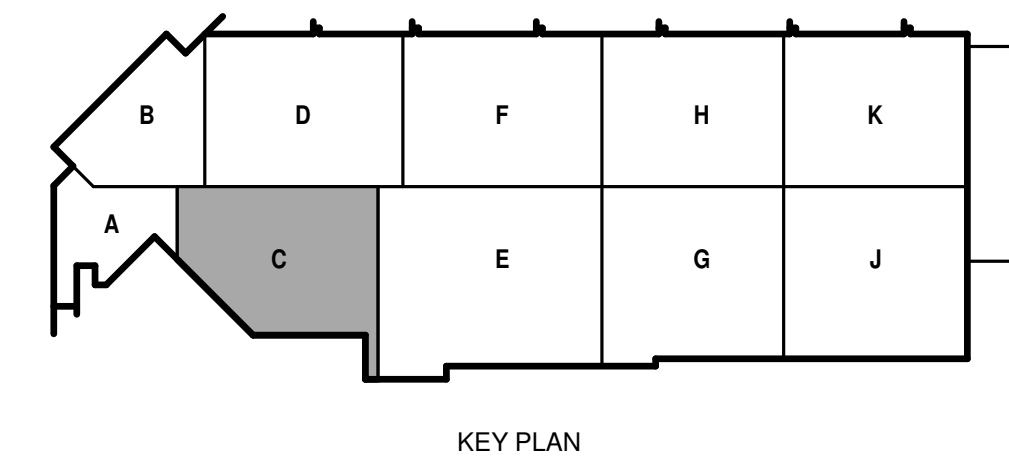
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**1** SECOND FLOOR MECHANICAL PLAN - AREA C  
1/8" = 1'-0"



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**CITY OF MADISON  
METRO TRANSIT PHASE 3A - MAINTENANCE AND  
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SHEET CONTENTS  
SECOND FLOOR  
MECHANICAL PLAN -  
AREA D

SHEET NO.:

**M-102D**

**GENERAL HVAC NOTES**

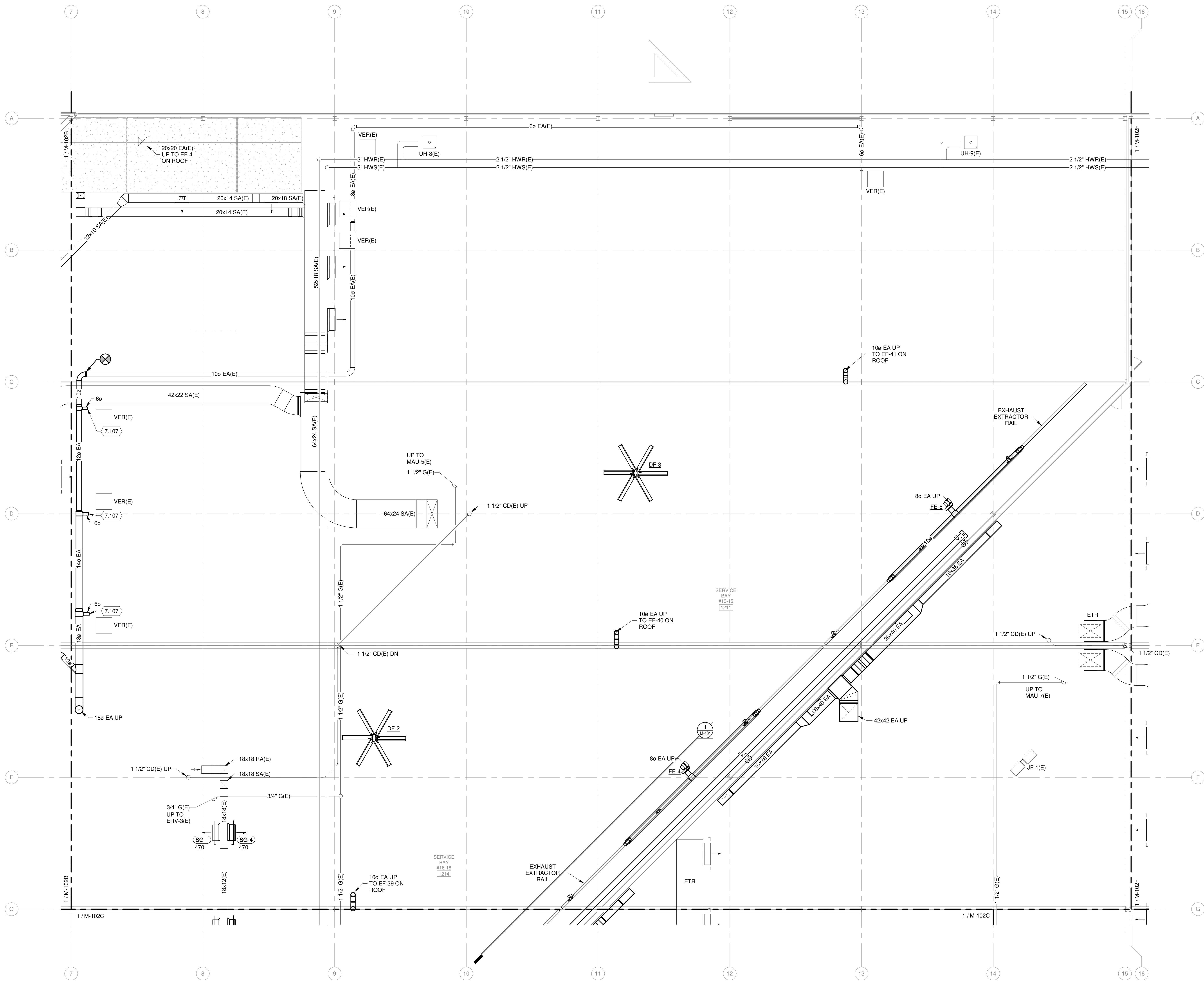
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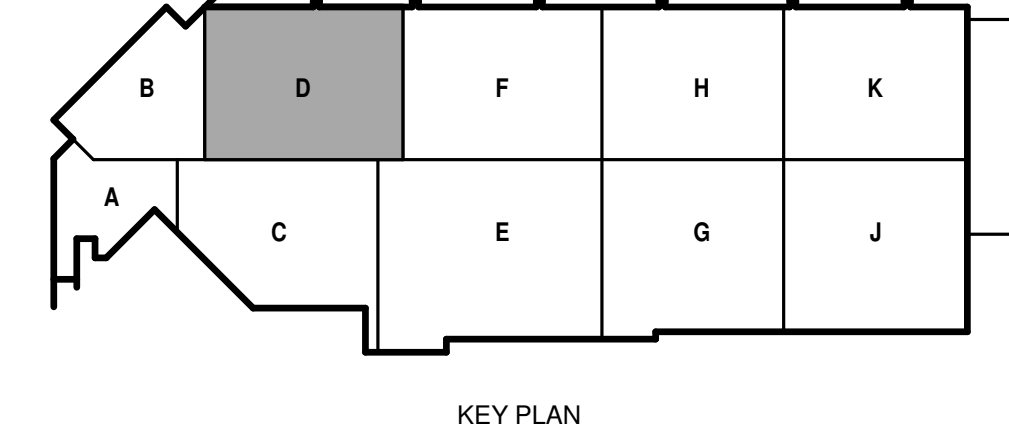
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**KEYED NOTES**

- 7.107 CONTRACTOR SHALL INSTALL 6-INCH DUCT ATTACHMENTS TO THE EXISTING SUSPENDED FUME EXHAUST REELS (VER) AND CONNECT TO THE EXHAUST DUCTWORK FOR EXHAUST FAN EF-7(E). COORDINATE THE LOCATION OF EXHAUST DUCT MAIN WITH METRO AND CITY'S PROJECT REPRESENTATIVE. EXHAUST DUCTWORK SHALL BE INSTALLED AS HIGH AS POSSIBLE NEAR BOTTOM OF THE BAR JOIST.



**1** SECOND FLOOR MECHANICAL PLAN - AREA D  
1/8" = 1'-0"



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**GENERAL HVAC NOTES**

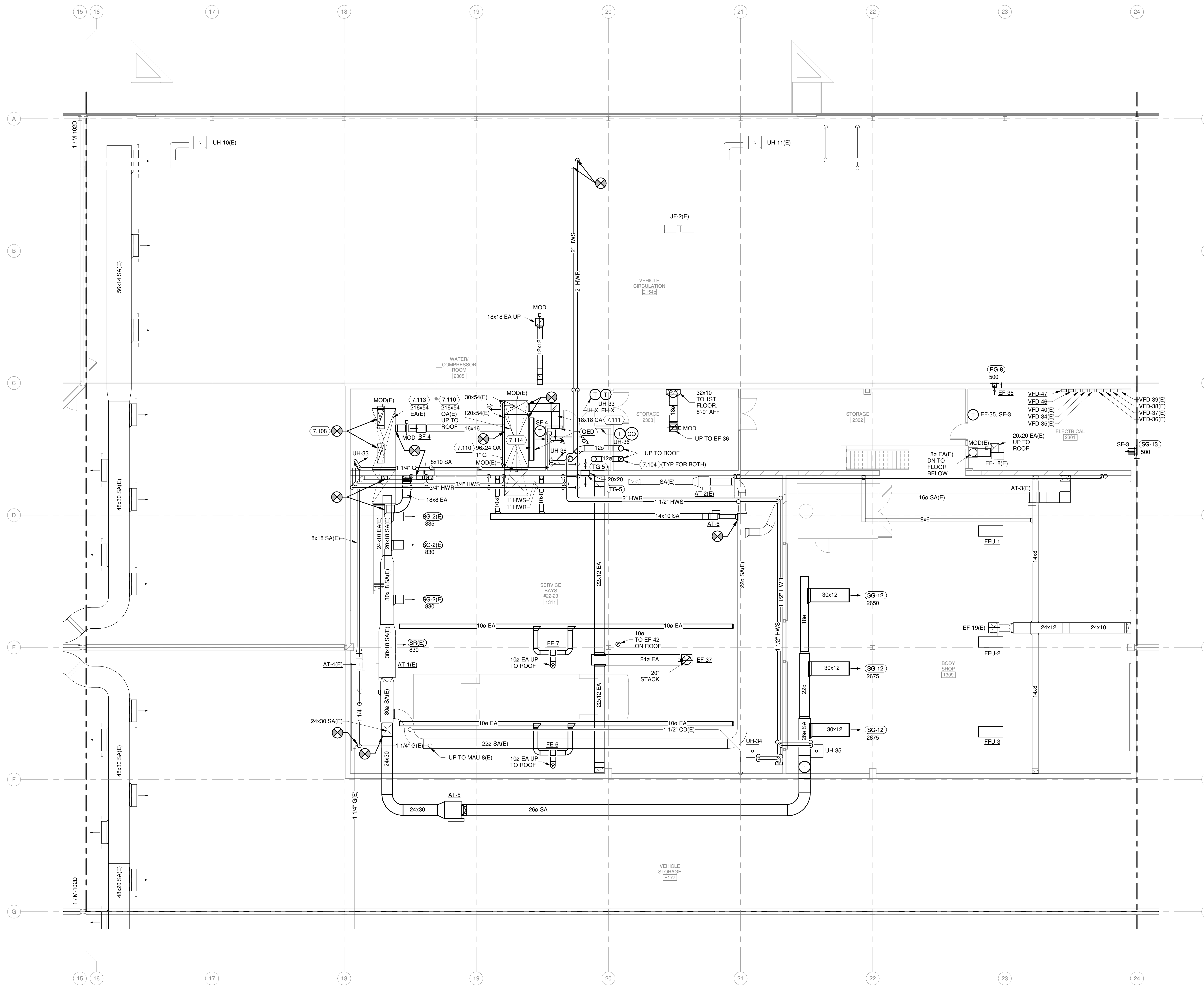
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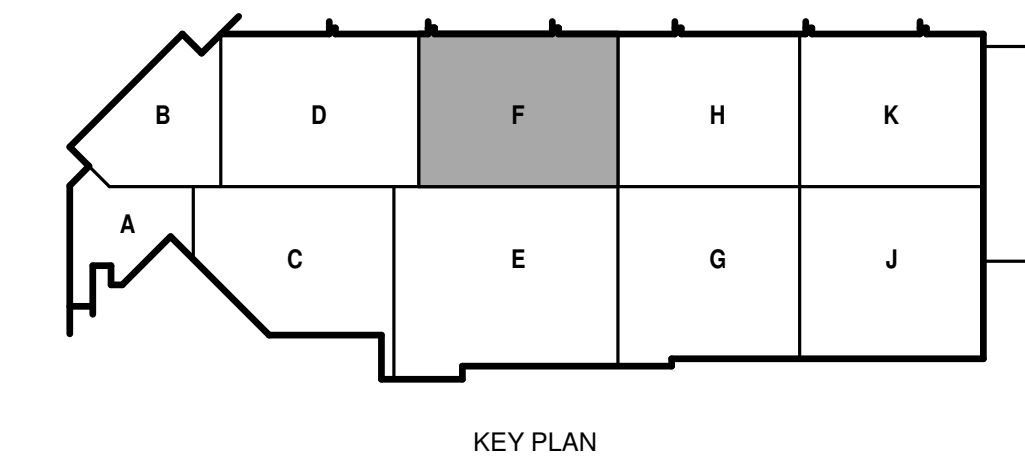
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**KEYED NOTES**

- 7.104 INSTALL CLASS B BREECHING VENT IN VERTICAL EXHAUST DUCT, NEAR ROOF STRUCTURE, FOR EACH HOTSPOT UNIT.
- 7.108 INSTALL (2) 44X16 DUCT CONNECTIONS TO EXHAUST HOOD PLENUM, TO VENTILATE (2) NEW COMPRESSORS.
- 7.110 CONTRACTOR SHALL EXTERNAL INSULATE FOR OUTSIDE AIR INTAKE PLENUM INTO THE SPACE. INSTALL 3-INCH RIGID MINERAL FIBERBOARD INSULATION WITH FSK JACKETING.
- 7.111 CONTRACTOR SHALL EXTERNAL INSULATE THE COMBUSTION AIR DUCT SERVING HOTSPOT ROOM. INSTALL 3-INCH RIGID MINERAL FIBERBOARD INSULATION WITH FSK JACKETING.
- 7.113 CONTRACTOR TO ACOUSTICALLY LINED EXHAUST DUCTWORK AND PLENUM UP TO ISOLATION DAMPER.
- 7.114 PROVIDE DRAIN PAN IN BOTTOM OF OUTSIDE AIR PLENUM AND ROUTE 3/4" PIPE TO NEAREST FLOOR DRAIN.



**1 SECOND FLOOR MECHANICAL PLAN - AREA F**  
1/8" = 1'-0"





**GENERAL HVAC NOTES**

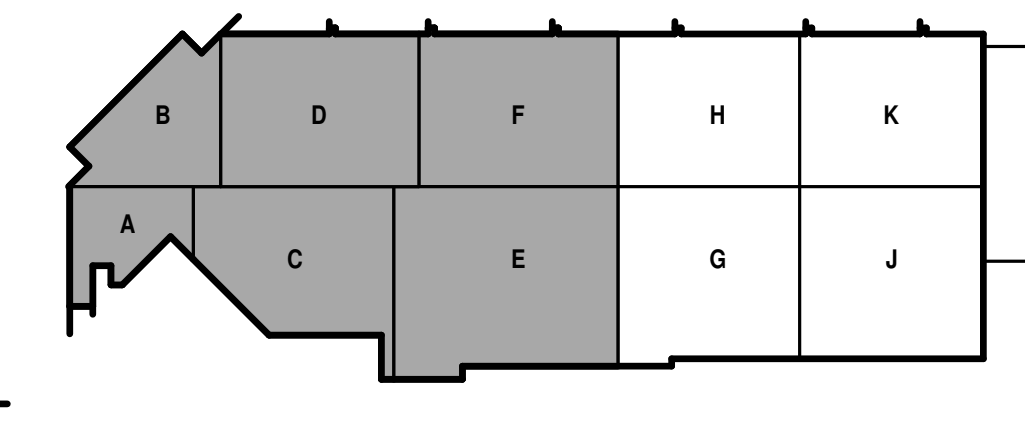
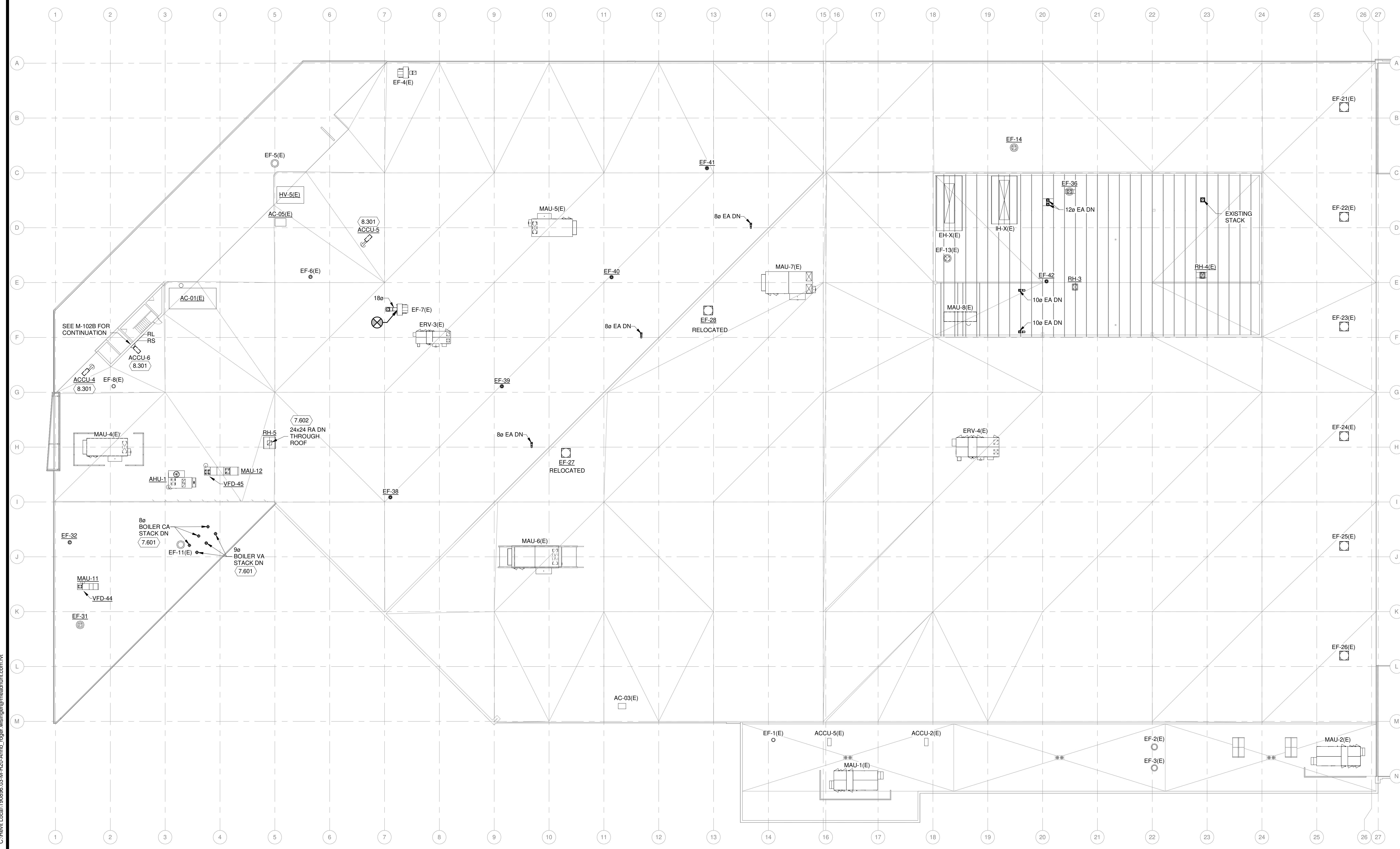
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**KEYED NOTES**

- 7.601 TERMINATE STACK A MAXIMUM OF 6'-0" ABOVE EXISTING ROOF STRUCTURE.
- 7.602 COMPLETELY LINE RELIEF AIR DUCT PLENUM FROM HOOD TO MOD PER SPECIFICATIONS.
- 8.301 CONTRACTOR TO PROVIDE ROOF CURBS FOR ACCU AND REFRIGERANT PIPING PENETRATION IF APPLICABLE. SIZE TO BE DETERMINED BY FINAL SELECTION. INSTALLATION TO BE COORDINATED AND PERFORMED BY ROOFING CONTRACTOR.



**1 ROOF MECHANICAL PLAN - AREAS A,B,C,D,E,F**  
1" = 20'-0"

**CITY OF MADISON**  
**METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS**  
 1101 EAST WASHINGTON AVE.  
 MADISON, WI 53703

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 MW NO.: 4503500-190896.03  
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DO NOT SCALE DRAWINGS

SHEET NO.:

**M-103**

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METRO TRANSIT PHASE 3A - MAINTENANCE AND  
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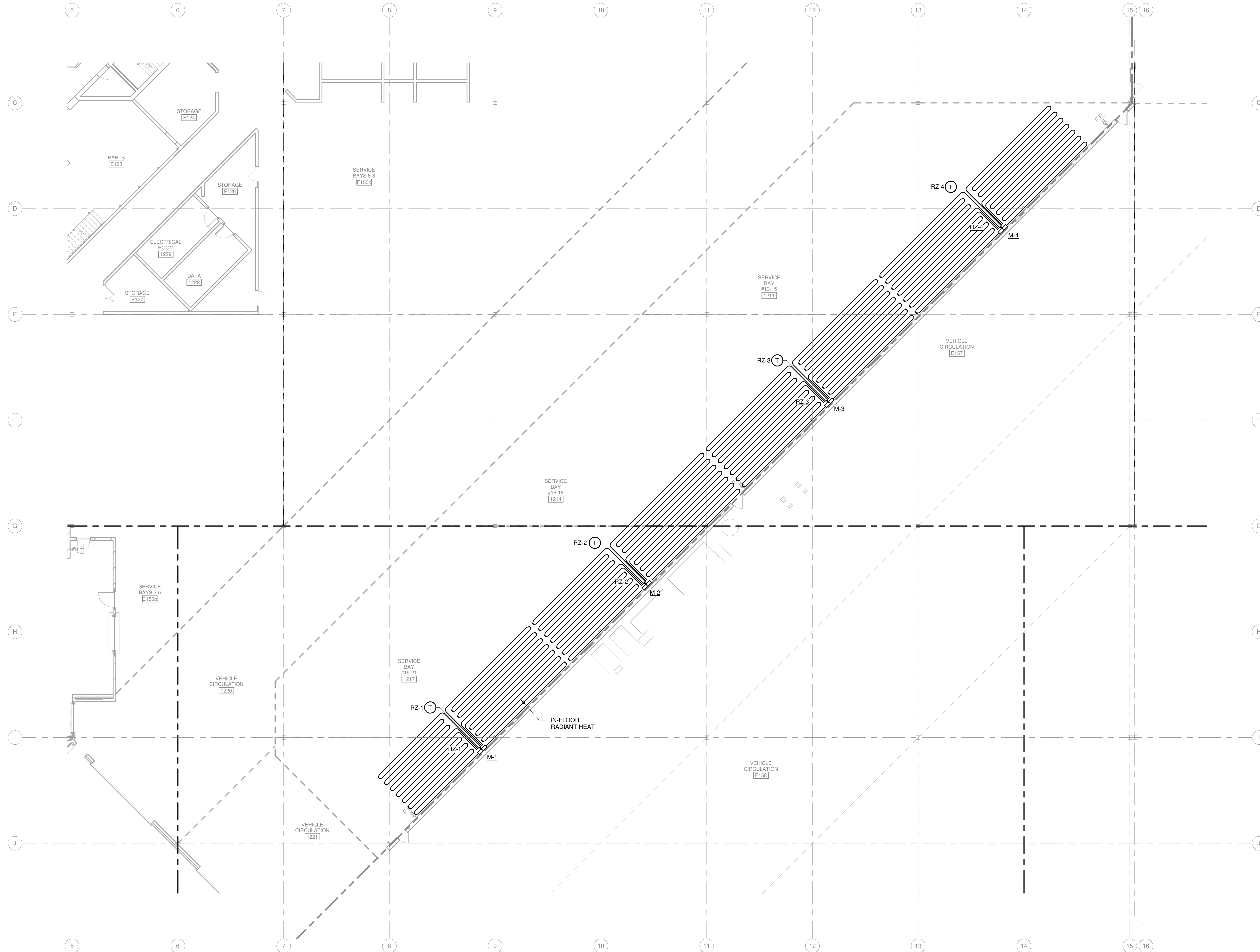
DO NOT SCALE DRAWINGS  
SHEET CONTENTS  
IN-FLOOR RADIANT  
HEAT PLAN

SHEET NO.:

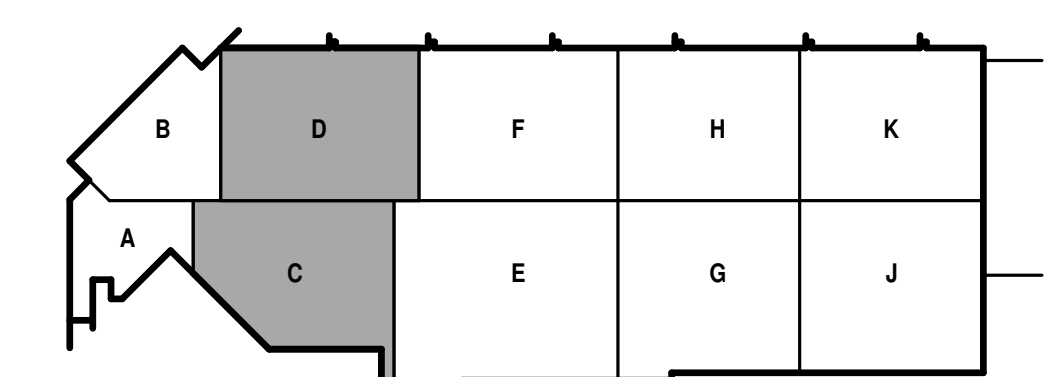
**M-121**

**GENERAL PIPING NOTES**

1. PIPING RUNOUTS TO ALL EQUIPMENT TO BE 3/4" UNLESS NOTED OTHERWISE.
2. WELD-O-LETS AND THREAD-O-LETS MAY BE USED FOR BRANCH TAKE-OFFS UP TO ONE-HALF THE DIAMETER OF THE MAIN.
3. INSTALL DIELECTRIC FITTINGS WHERE PIPING OF DIFFERENT MATERIALS IS JOINED.
4. INSTALL PIPING FREE OF SAGS AND BENDS.
5. LOCATE ALL VALVES FOR EASY ACCESS. INSTALL VALVES WITH STEM UP OR HORIZONTAL.
6. INSTALL DRAIN VALVES AT ALL LOW POINTS IN PIPING SYSTEM AND ELSEWHERE AS REQUIRED FOR SYSTEM DRAINAGE. INSTALL MANUAL AIR VENTS AT ALL HIGH POINTS IN PIPING, AT HEAT-TRANSFER COILS, AND ELSEWHERE AS REQUIRED FOR SYSTEM AIR VENTING.



**1 IN-FLOOR RADIANT HEAT PLAN**  
3/32" = 1'-0"



KEY PLAN

**GENERAL HVAC NOTES**

1. INLET DUCT SIZE TO AIR TERMINAL DEVICES SHALL BE SAME AS INLET SIZE UNLESS OTHERWISE NOTED. IF RUNOUT TO AIR TERMINAL BOX IS GREATER THAN 6 FEET IN LENGTH, SIZE RUNOUT ONE EVEN INCREMENT SIZE LARGER (MINIMUM 2" LARGER) UNLESS OTHERWISE NOTED TO WITHIN 3 FEET OF BOX BEFORE REDUCING TO BOX INLET SIZE.
2. DUCTWORK DOWNSTREAM OF AIR TERMINAL BOXES TO BE INTERNALLY LINED FOR A MINIMUM OF 6'-0" FOR SOUND ATTENUATION. OUTLET DUCT SIZES TO MATCH AIR TERMINAL BOX OUTLET UNLESS NOTED OTHERWISE.
3. PROVIDE MANUAL BALANCE DAMPER AT EACH DIFFUSER, GRILLE, AND BRANCH TAKE-OFF IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK EXCEPT KITCHEN GREASE EXHAUST DUCT. LOCATE BALANCE DAMPER AS CLOSE TO BRANCH TAKE-OFF AS POSSIBLE.
4. DUCT SIZE TO DIFFUSERS, REGISTERS, AND GRILLES SHALL BE SAME AS NECK SIZE UNLESS NOTED OR DETAILED OTHERWISE.
5. COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH REFLECTED CEILING PLAN.
6. PROVIDE FLEXIBLE DUCTWORK FOR FINAL CONNECTIONS TO SUPPLY AIR DIFFUSERS UNLESS NOTED OTHERWISE ON DRAWINGS OR IN SPECIFICATIONS. FLEXIBLE DUCT SIZE SHALL BE SAME AS NECK SIZE OF DIFFUSER AND SHALL NOT EXCEED 5 FEET IN LENGTH.
7. PROVIDE PLENUM RATED INSULATION AND WIRING IN RETURN AIR CEILING PLENUM. MATERIALS WITHIN PLENUMS SHALL BE NON-COMBUSTIBLE OR SHALL HAVE A FLAME AND SMOKE SPREAD INDEX OF NOT MORE THAN 25/50 WHEN TESTED IN ACCORDANCE WITH ASTM E84.

**Mead & Hunt**

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**CITY OF MADISON  
METRO TRANSIT PHASE 3A - MAINTENANCE AND  
DRIVER FACILITY IMPROVEMENTS  
1101 EAST WASHINGTON AVE.  
MADISON, WI 53703**

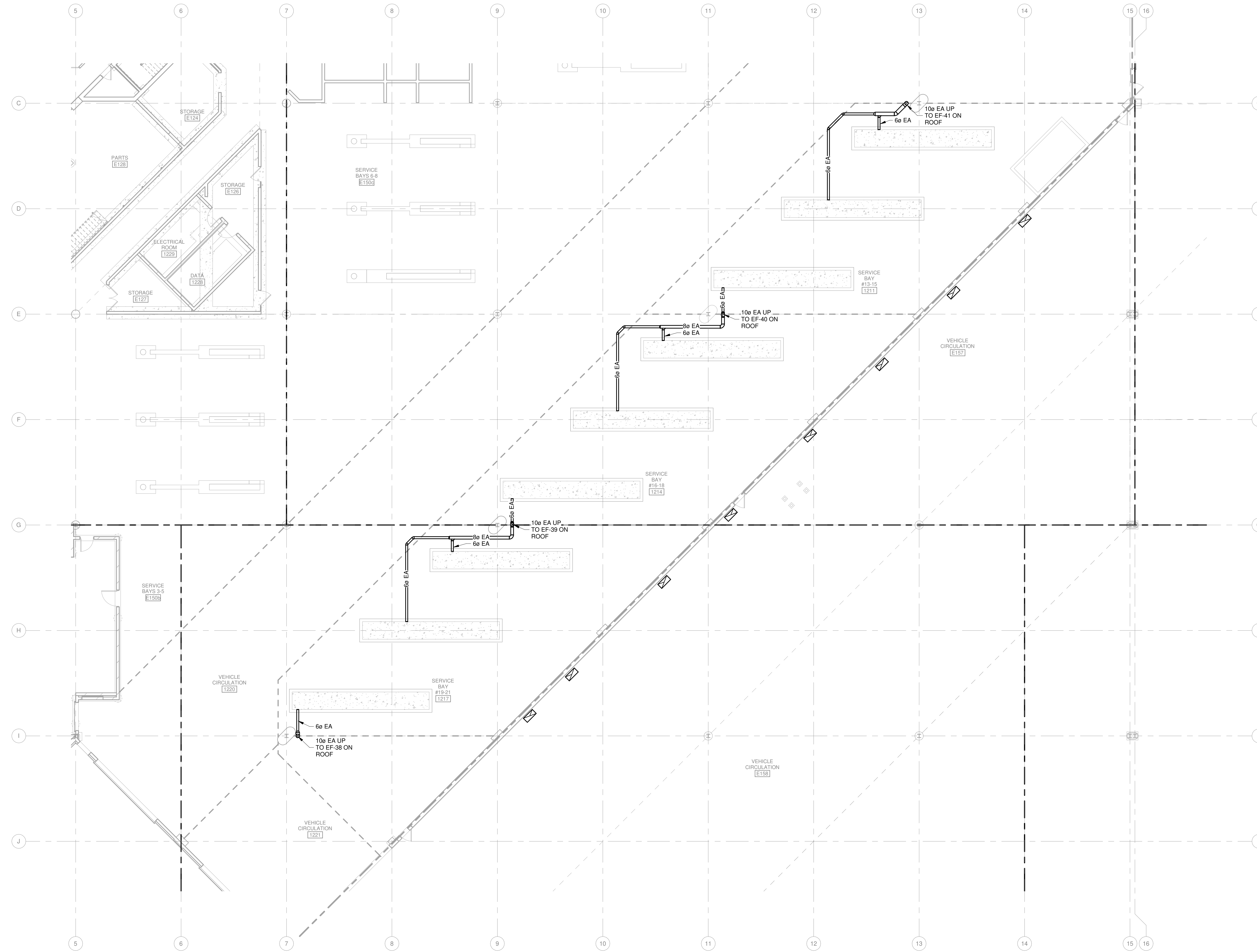
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CONTRACT NO.: 8981  
M&H NO.: 4503500-190896.03  
DATE: APRIL 8, 2021  
DESIGNED BY: DJG  
DRAWN BY: WAH  
CHECKED BY: SNW  
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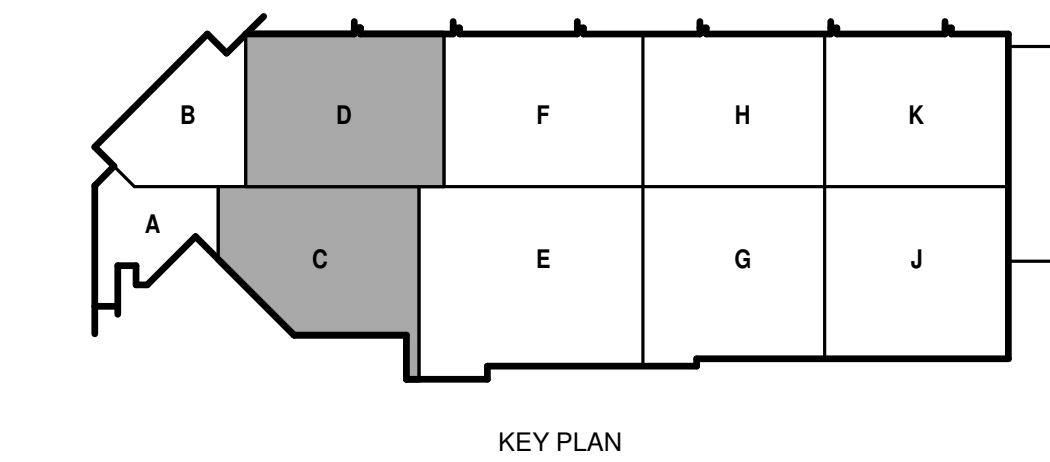
SHEET CONTENTS  
UNDERGROUND  
DUCT PLAN

SHEET NO.:

**M-122**



**1 UNDERGROUND DUCT PLAN**  
3/32" = 1'-0"



4/7/2021 9:52:44 AM C:\Revel Local\190896.03\M-P30-Arno\_roger\_wesinger@meadhunt.com\1

**GENERAL HVAC NOTES**

1. INLET DUCT SIZE TO AIR TERMINAL DEVICES SHALL BE SAME AS INLET SIZE UNLESS OTHERWISE NOTED. IF RUNOUT TO AIR TERMINAL BOX IS GREATER THAN 6 FEET IN LENGTH, SIZE RUNOUT ONE EVEN INCREMENT SIZE LARGER (MINIMUM 2" LARGER) UNLESS OTHERWISE NOTED TO WITHIN 3 FEET OF BOX BEFORE REDUCING TO BOX INLET SIZE.
2. DUCTWORK DOWNSTREAM OF AIR TERMINAL BOXES TO BE INTERNALLY LINED FOR A MINIMUM OF 6'-0" FOR SOUND ATTENUATION. OUTLET DUCT SIZES TO MATCH AIR TERMINAL BOX OUTLET UNLESS NOTED OTHERWISE.
3. PROVIDE MANUAL BALANCE DAMPER AT EACH DIFFUSER, GRILLE, AND BRANCH TAKE-OFF IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK EXCEPT KITCHEN GREASE EXHAUST DUCT. LOCATE BALANCE DAMPER AS CLOSE TO BRANCH TAKE-OFF AS POSSIBLE.
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5. COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH REFLECTED CEILING PLAN.
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MADISON, WI 53703**

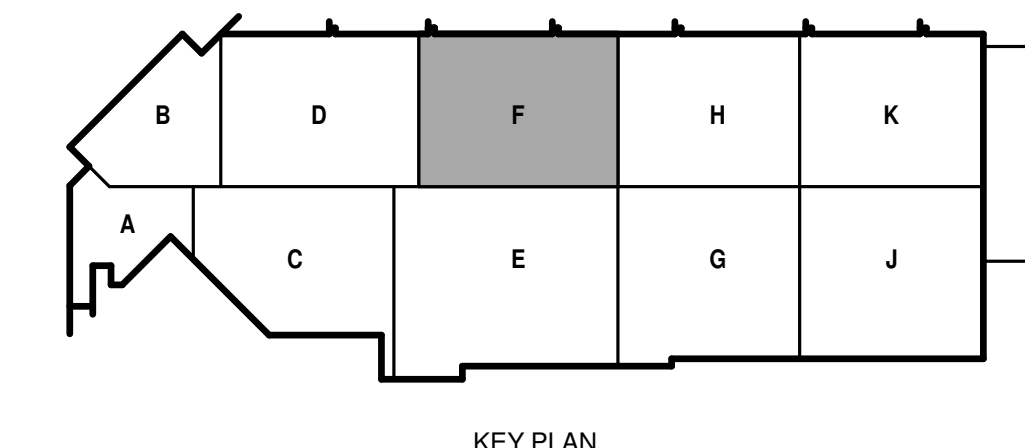
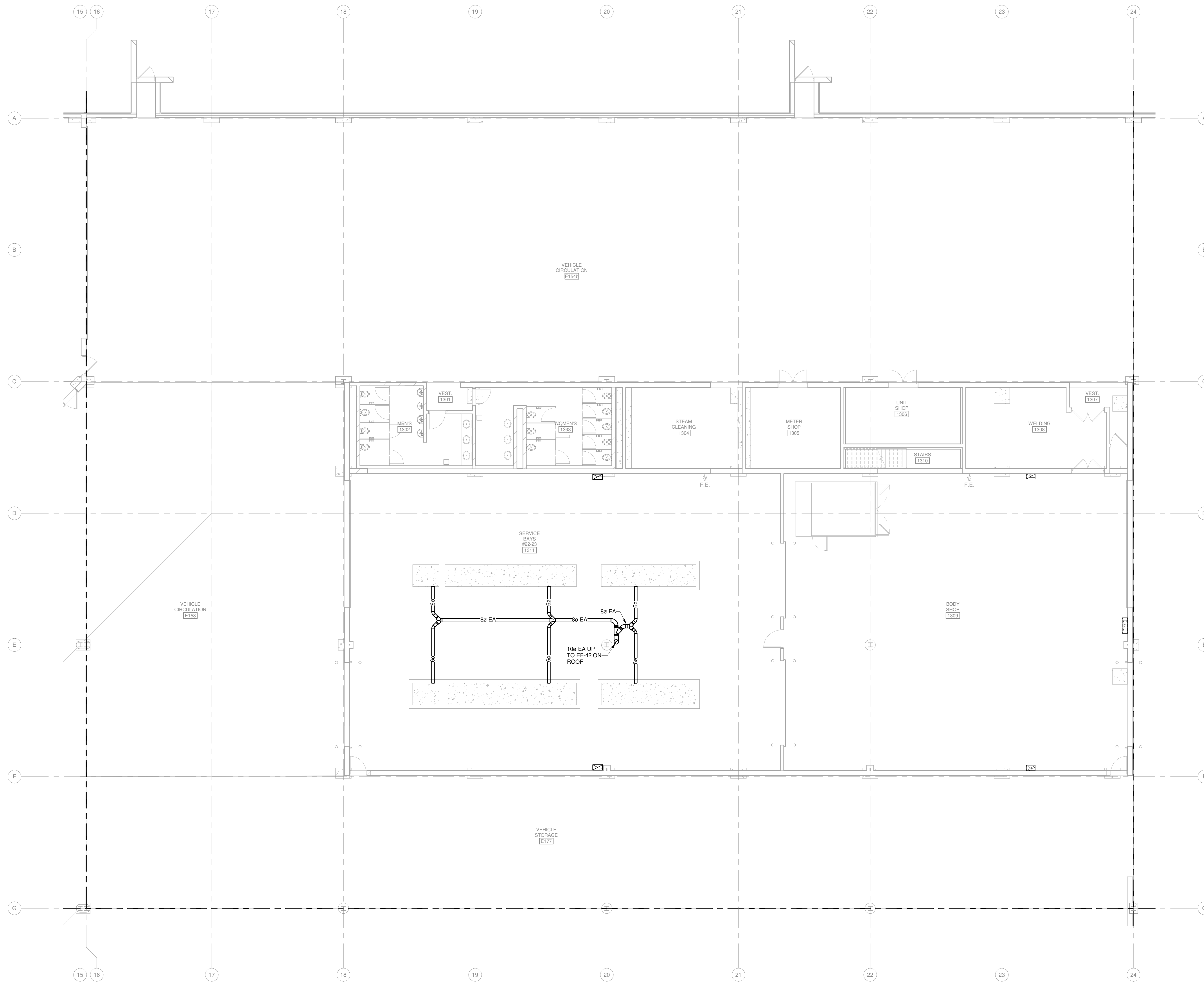
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SHEET CONTENTS  
UNDERGROUND  
DUCT PLAN - AREA F

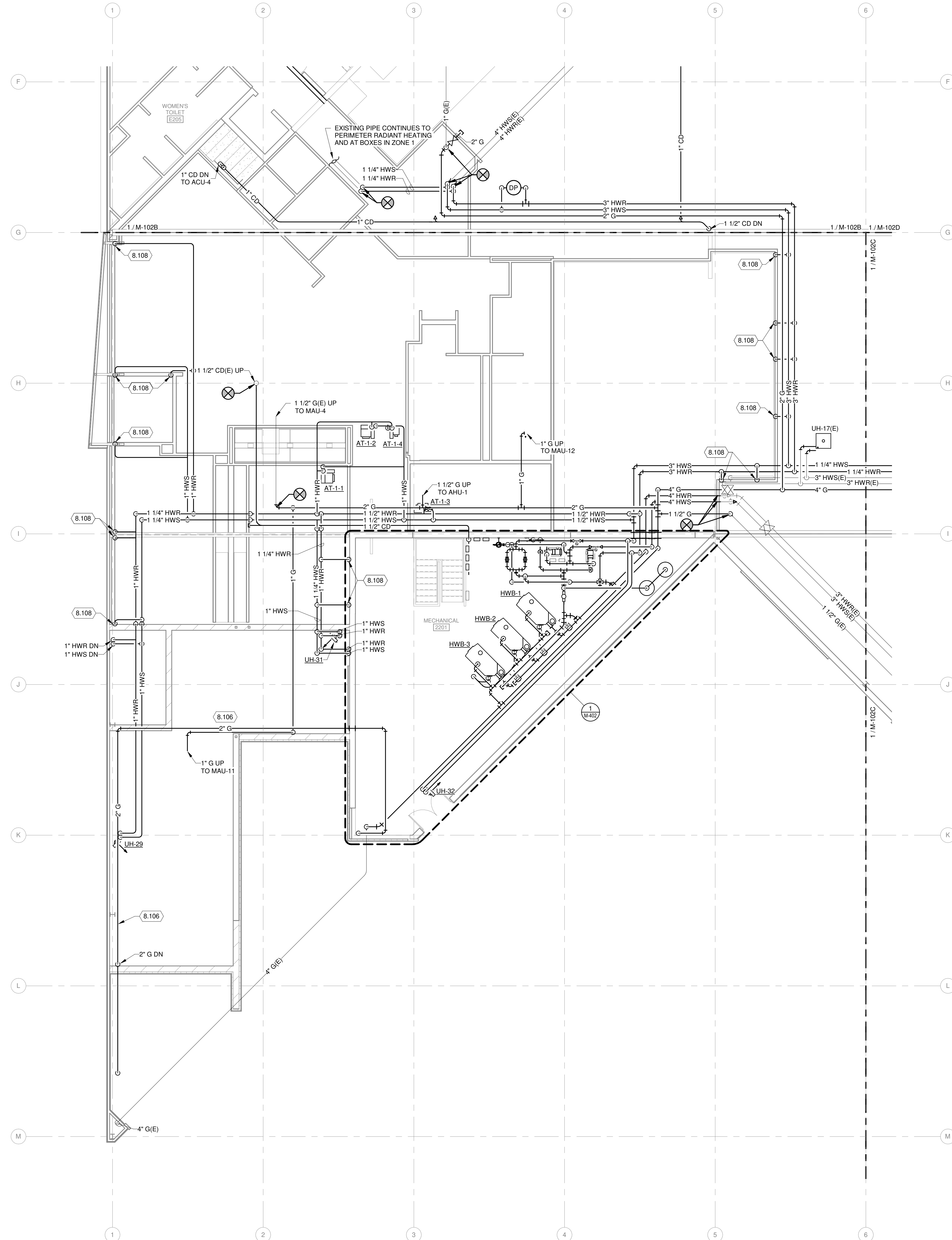
SHEET NO.:

**M-122F**



**1 UNDERGROUND DUCT PLAN - AREA F**  
1/8" = 1'-0"

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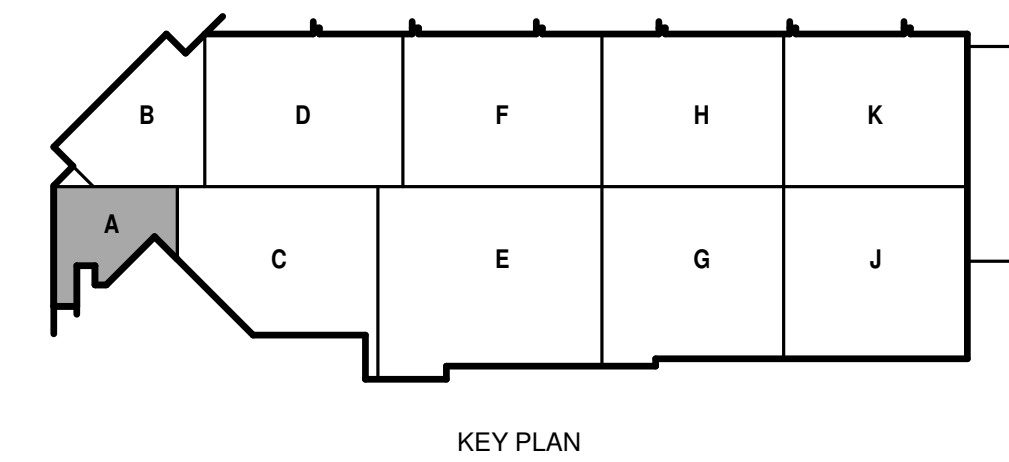
**1 SECOND FLOOR PIPING PLAN - AREA A**  
1/8" = 1'-0"

**GENERAL PIPING NOTES**

1. PIPING RUNOUTS TO ALL EQUIPMENT TO BE 3/4" UNLESS NOTED OTHERWISE.
2. WELD-O-LETS AND THREAD-O-LETS MAY BE USED FOR BRANCH TAKE-OFFS UP TO ONE-HALF THE DIAMETER OF THE MAIN.
3. INSTALL DIELECTRIC FITTINGS WHERE PIPING OF DIFFERENT MATERIALS IS JOINED.
4. INSTALL PIPING FREE OF SAGS AND BENDS.
5. LOCATE ALL VALVES FOR EASY ACCESS. INSTALL VALVES WITH STEM UP OR HORIZONTAL.
6. INSTALL DRAIN VALVES AT ALL LOW POINTS IN PIPING SYSTEM AND ELSEWHERE AS REQUIRED FOR SYSTEM DRAINAGE. INSTALL MANUAL AIR VENTS AT ALL HIGH POINTS IN PIPING, AT HEAT-TRANSFER COILS, AND ELSEWHERE AS REQUIRED FOR SYSTEM AIR VENTING.

**KEYED NOTES**

- 8.106 CONTRACTOR SHALL INSTALL WELDED PIPING FITTINGS FOR GAS PIPING AS NOTED. CONTRACTOR TO PAINT INTERIOR GAS PIPING THE COLOR YELLOW. CONTRACTOR SHALL LABEL ALL GAS PIPING FOR NEW AND EXISTING AS "5 PSIG".
- 8.108 DROP PIPING DOWN TO 1ST FLOOR EQUIPMENT, SEE SHEET M-101A FOR SIZE.



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CHECKED BY: SNW  
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SHEET CONTENTS  
SECOND FLOOR  
PIPING PLAN - AREA  
A

SHEET NO.:

**M-132A**



metro transit

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SHEET CONTENTS  
FIRST FLOOR  
ENLARGED  
MECHANICAL PLAN  
AND SECTION

SHEET NO.:

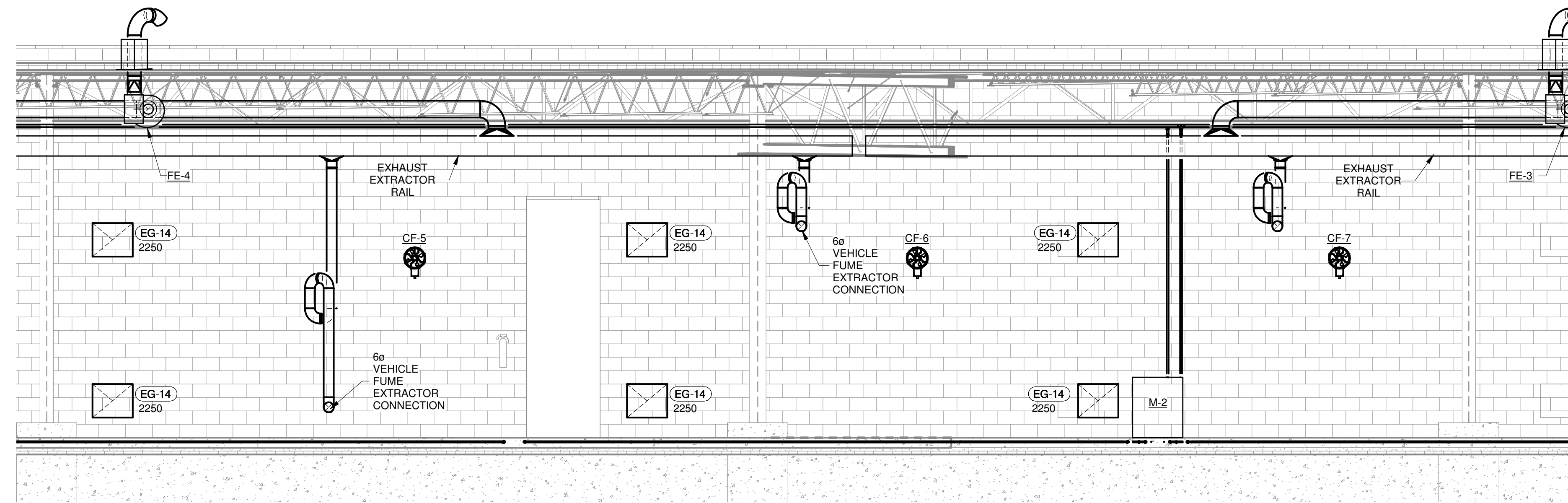
M-401

**GENERAL HVAC NOTES**

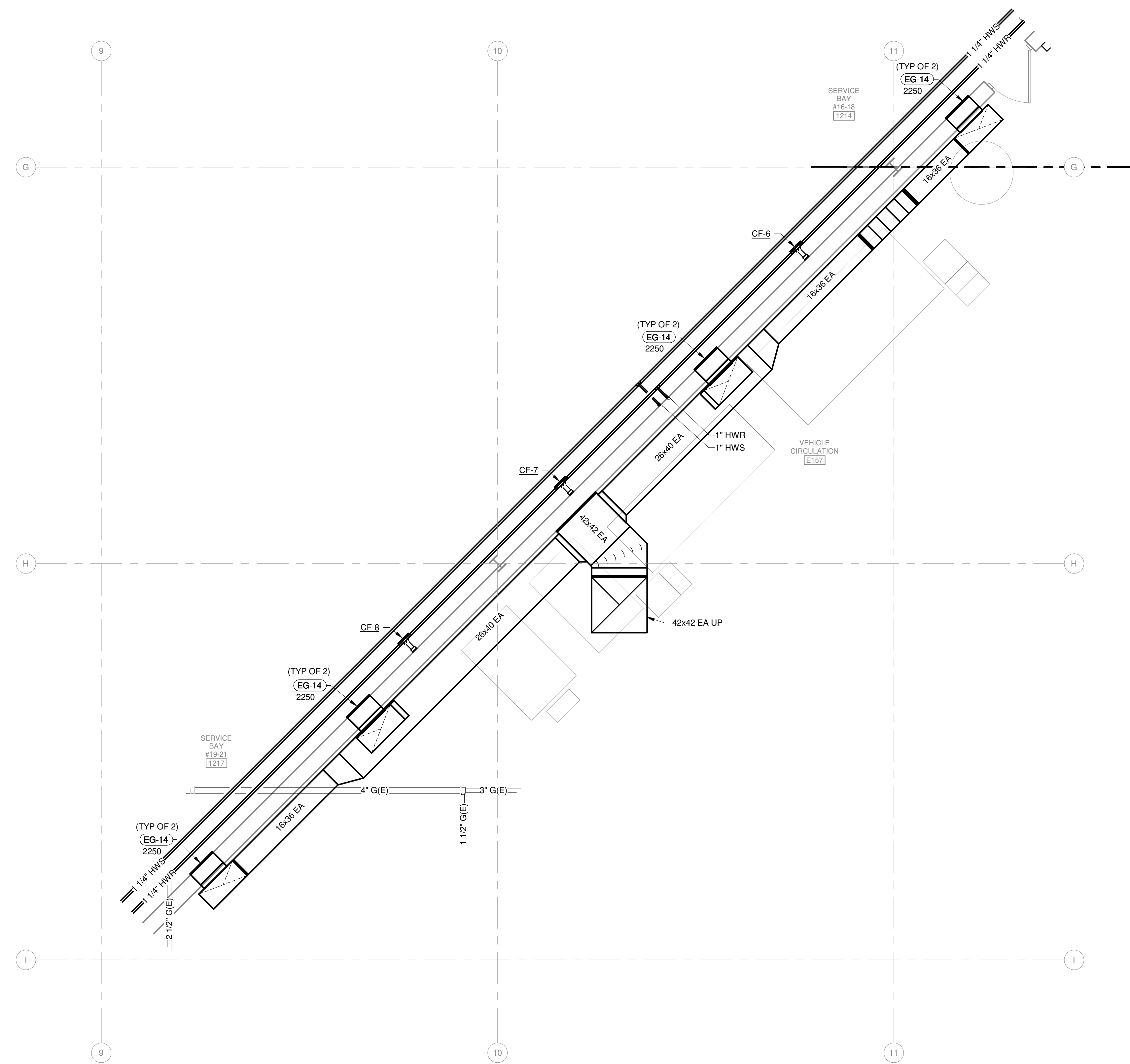
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**GENERAL PIPING NOTES**

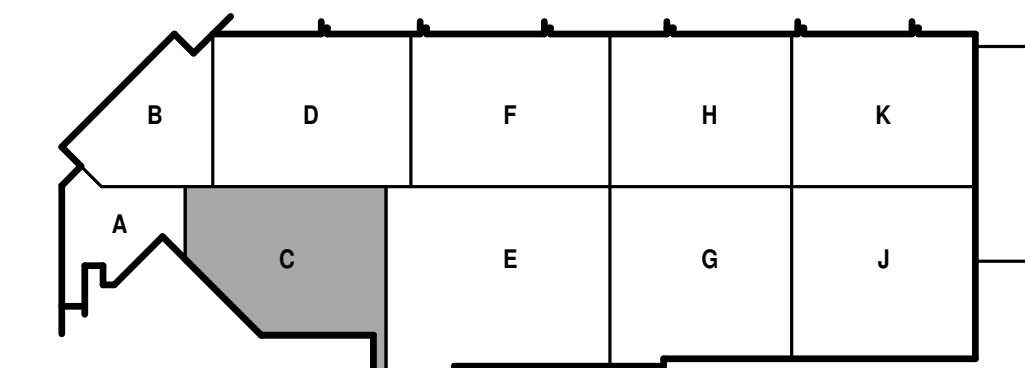
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**1 ENLARGED MECHANICAL SECTION OF EAST SERVICE BAY WALL**  
1/4" = 1'-0"



**2 ANGLED WALL MECHANICAL FLOOR PLAN**  
1/4" = 1'-0"



KEY PLAN



**GENERAL HVAC NOTES**

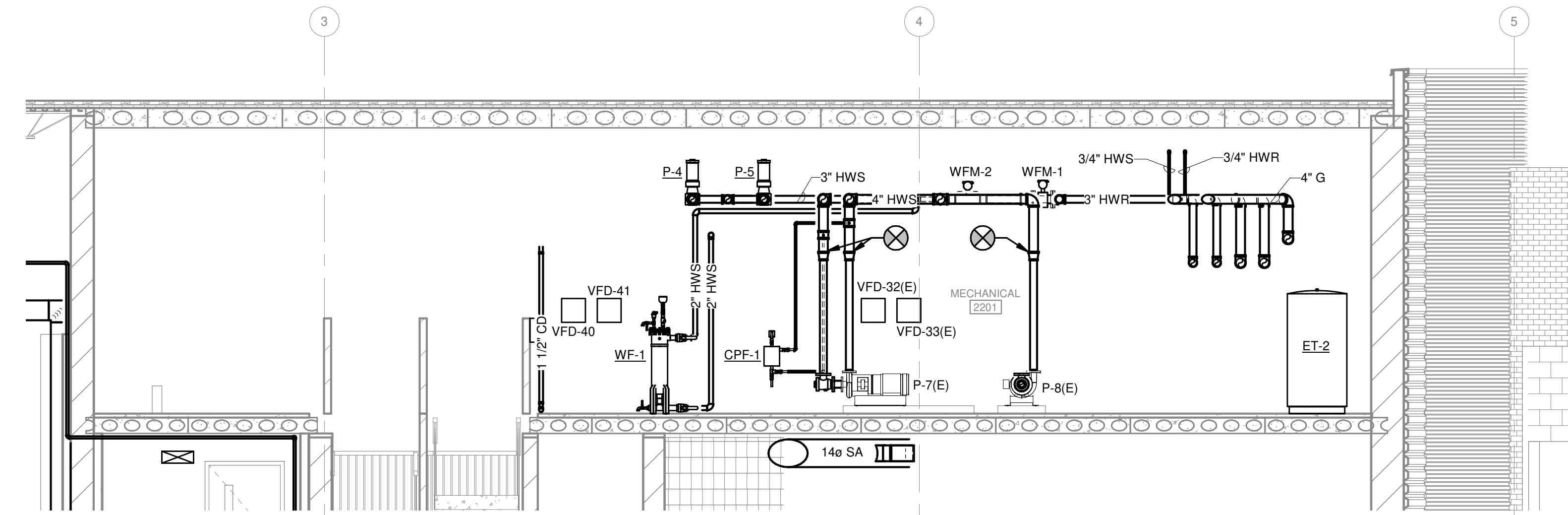
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**GENERAL PIPING NOTES**

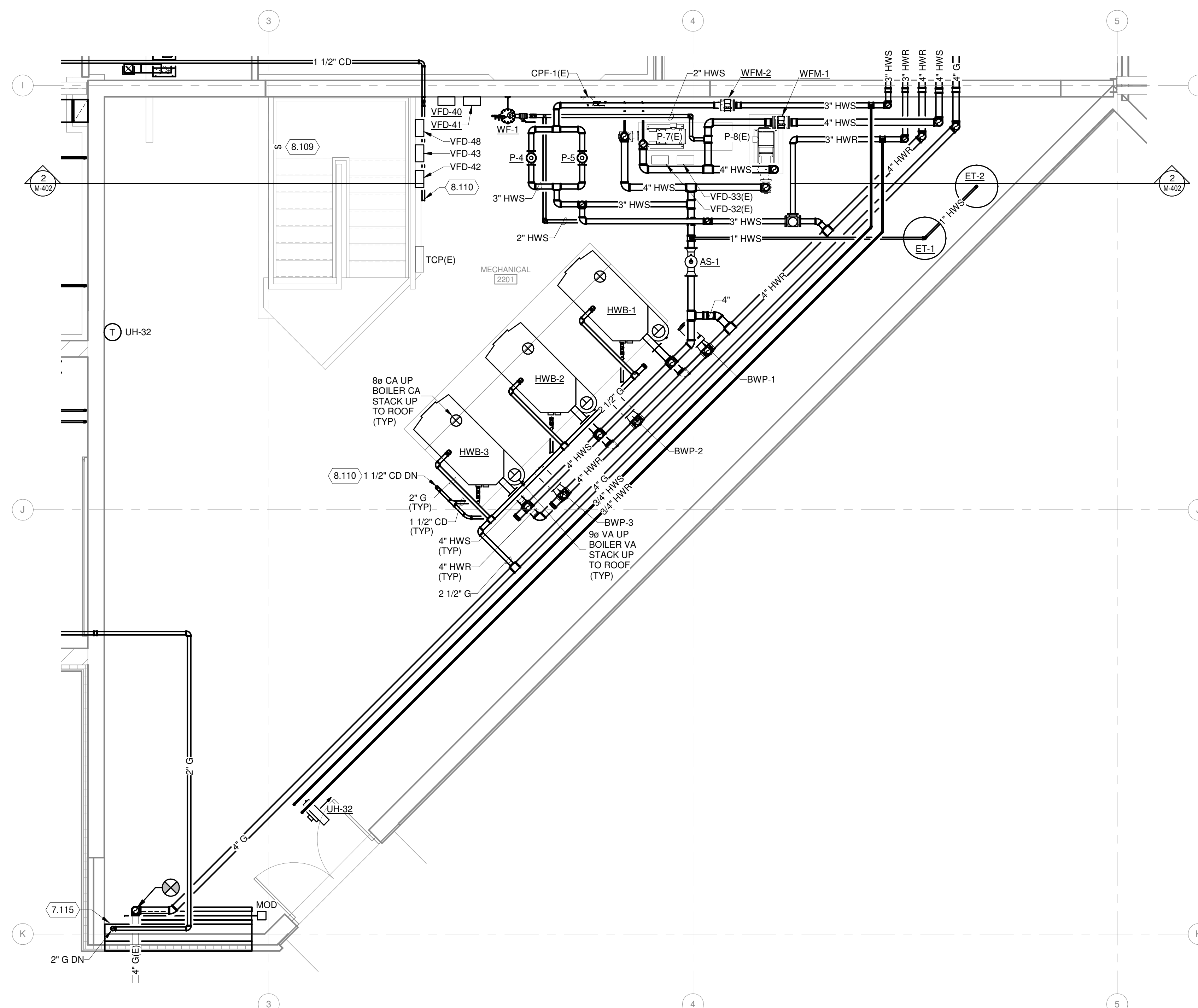
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**KEYED NOTES**

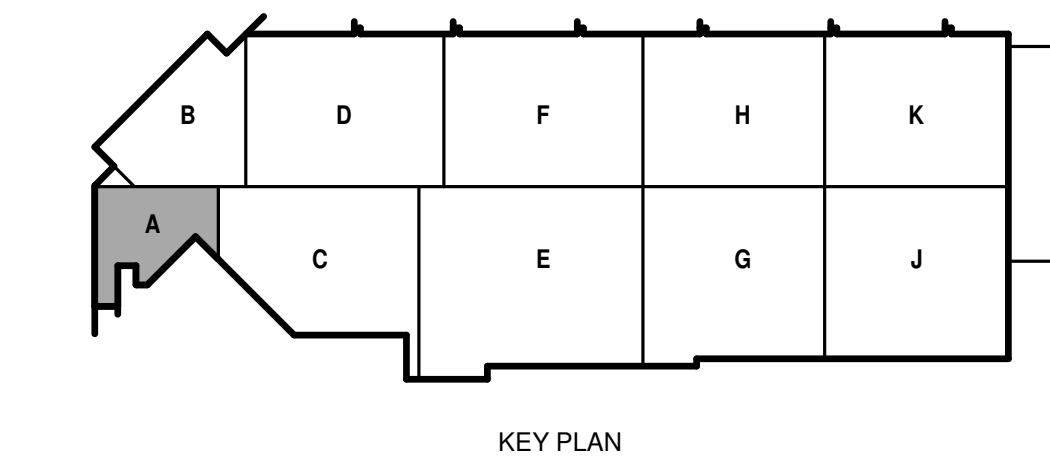
- 7.115 BLANK-OFF PORTION OF NEW LOUVER AND INSTALL SMALLER MOD TO AVOID CLASH WITH NATURAL GAS PIPE DROP TO LOWER LEVEL.
- 8.109 BOILER SHUT DOWN BUTTON PER ASME CSD-1: PROVIDE A MANUALLY OPERATED REMOTE SHUT DOWN SWITCH OR CIRCUIT BREAKER. THE SWITCH SHALL BE MARKED FOR EASY IDENTIFICATION AS: "EMERGENCY BOILER SHUT DOWN". SWITCH MUST SHUT DOWN ALL POWER TO THE BURNER CONTROLS.
- 8.110 ROUTE CONDENSATE DRAIN (CD) TO NEAREST DRAIN.



**2 ENLARGED SECOND FLOOR BOILER ROOM MECHANICAL SECTION**  
1/4" = 1'-0"



**1 ENLARGED SECOND FLOOR BOILER ROOM MECHANICAL PLAN**  
1/4" = 1'-0"



KEY PLAN

**CITY OF MADISON  
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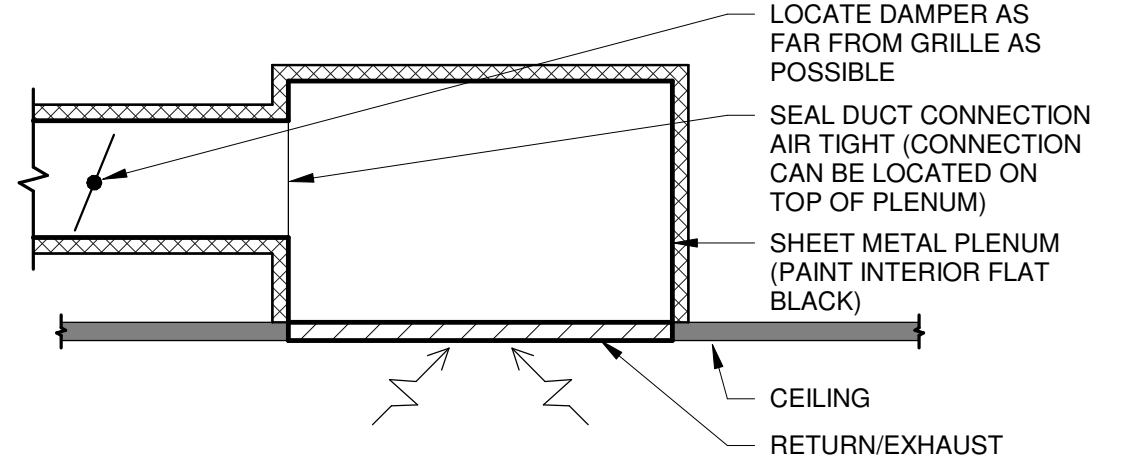
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SHEET CONTENTS  
SECOND FLOOR  
ENLARGED  
MECHANICAL PLAN  
AND SECTION

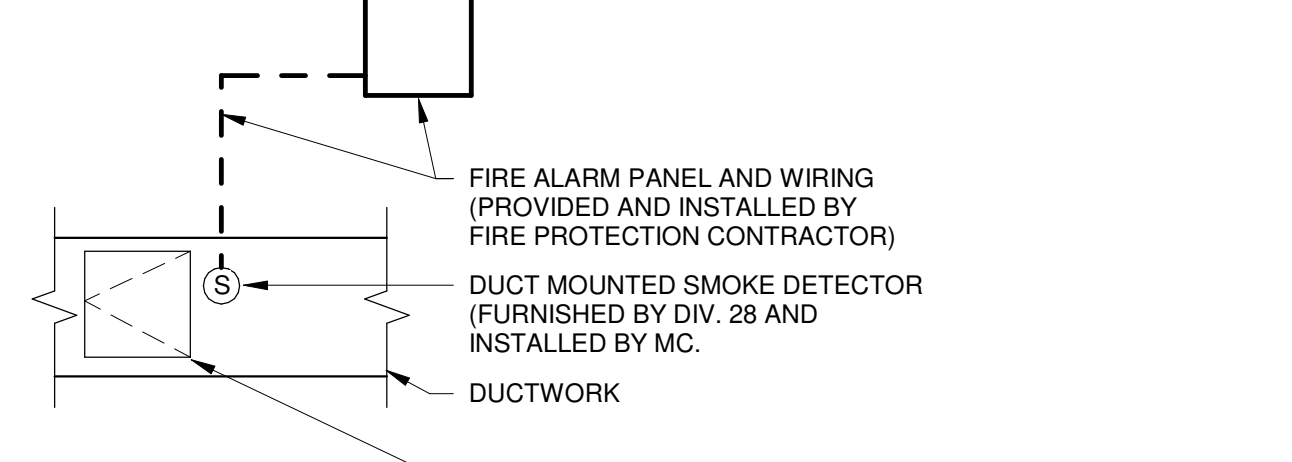
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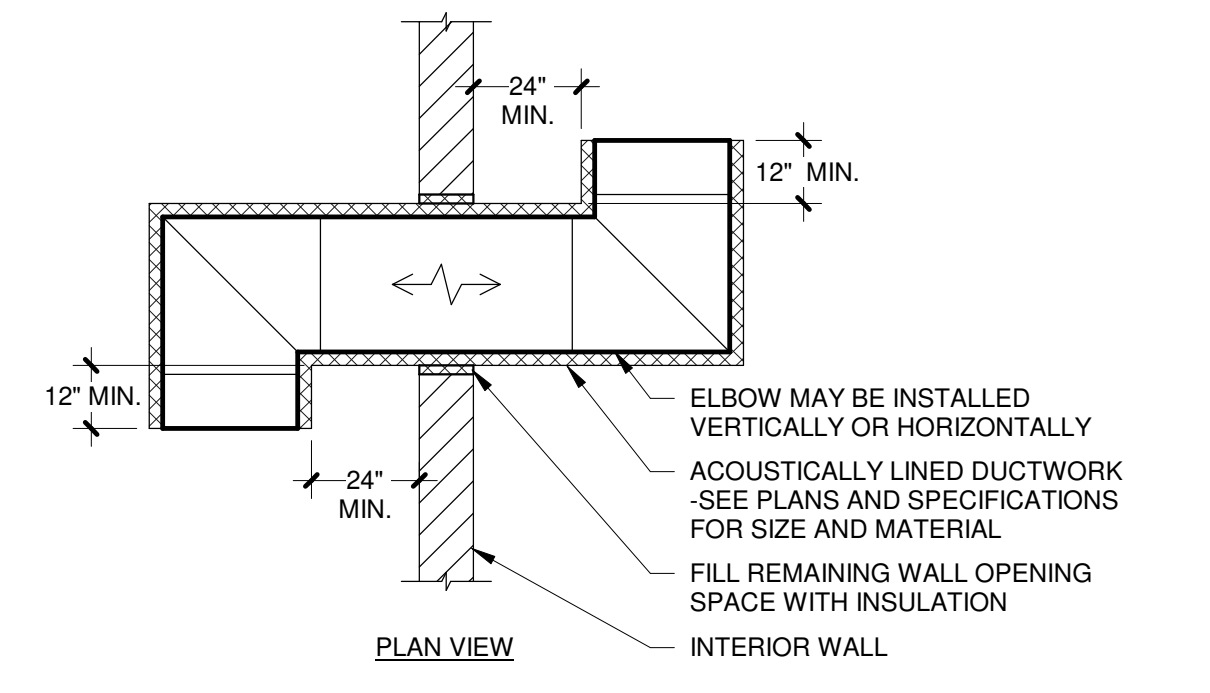




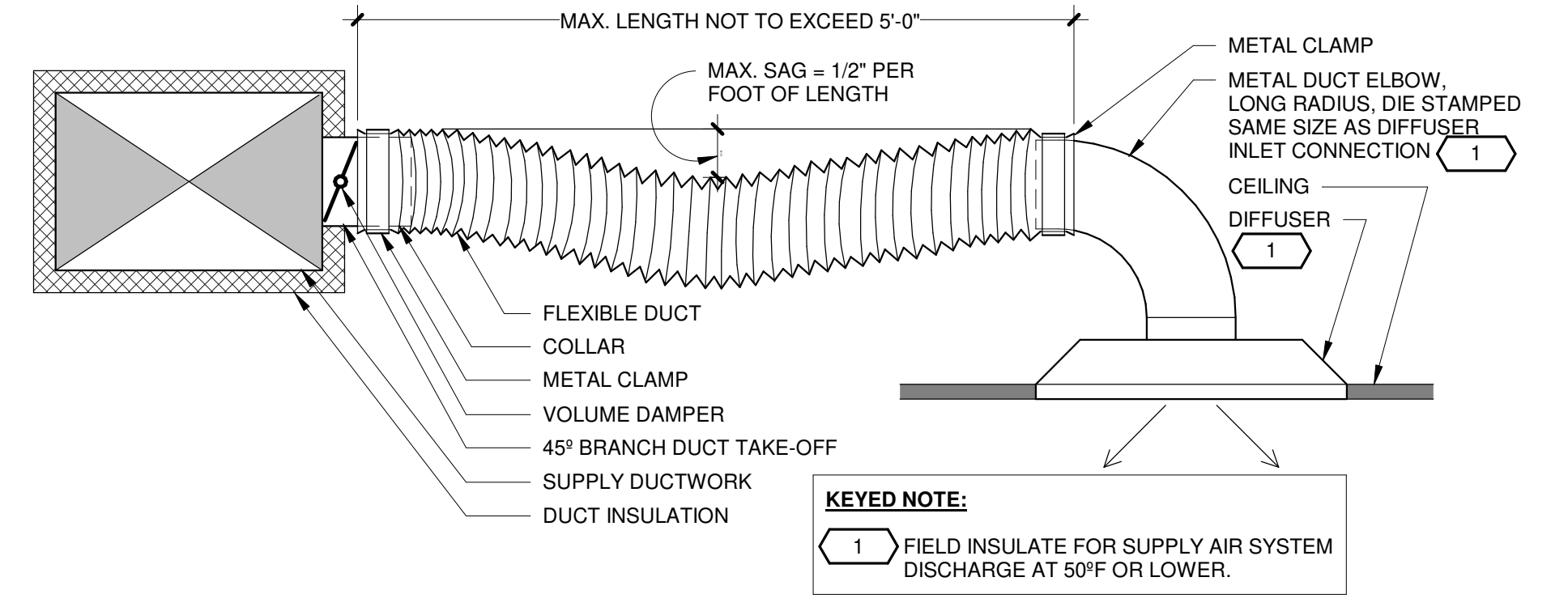
**14 RETURN/EXHAUST GRILLE DUCT CONNECTION**  
NO SCALE



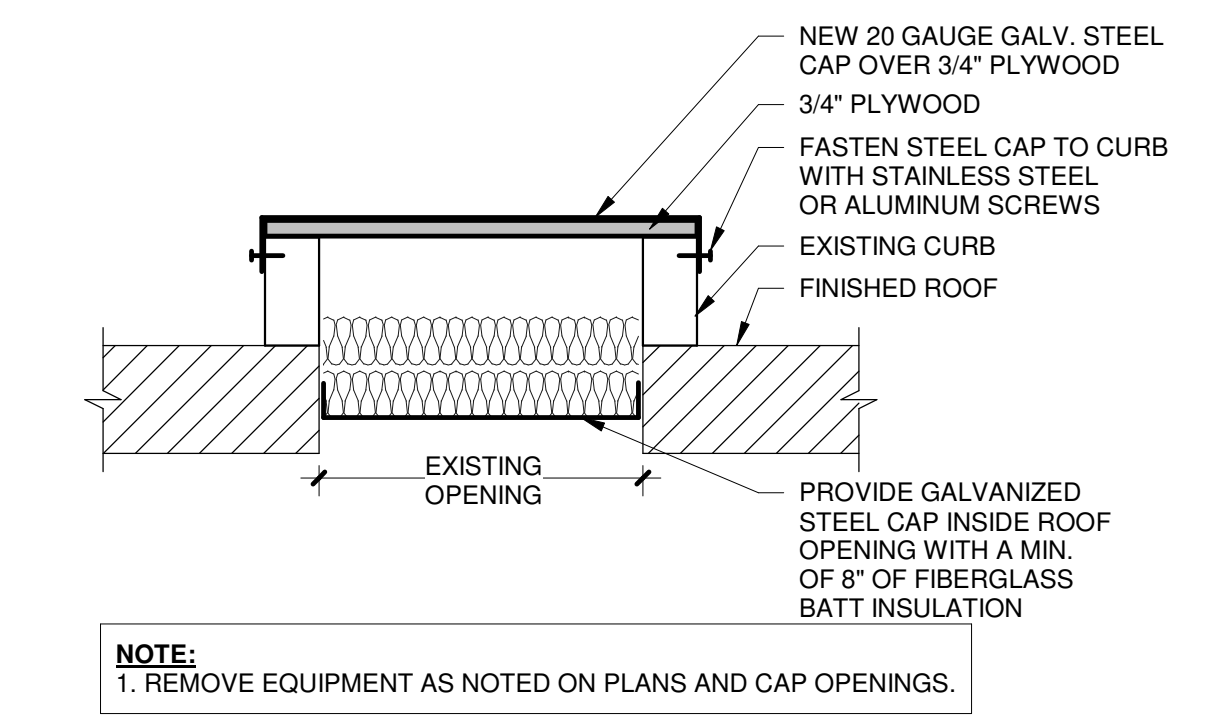
**10 DUCT MOUNTED SMOKE DETECTOR CONTROL DIAGRAM**  
NO SCALE



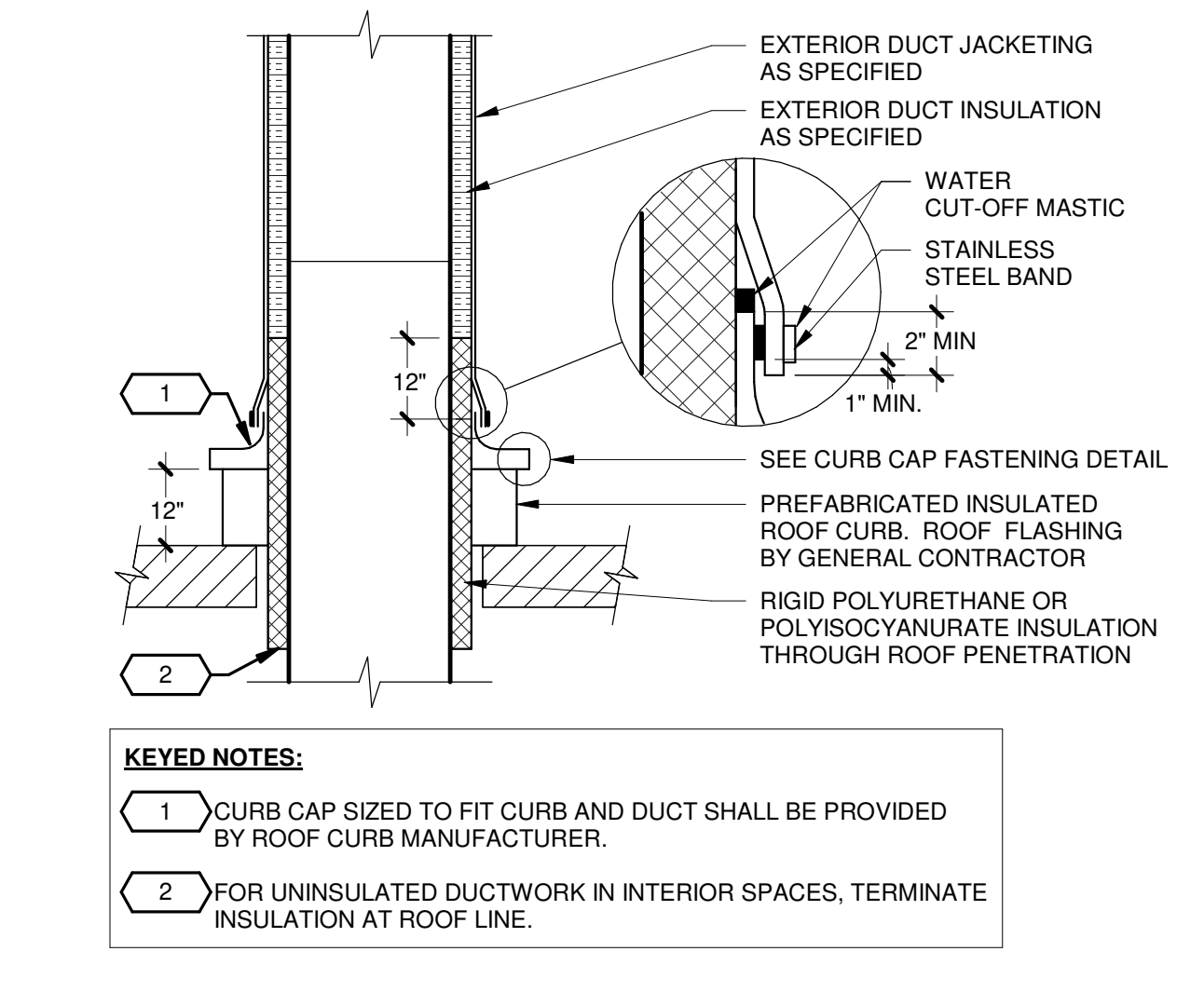
**6 TRANSFER DUCT DETAIL**  
NO SCALE



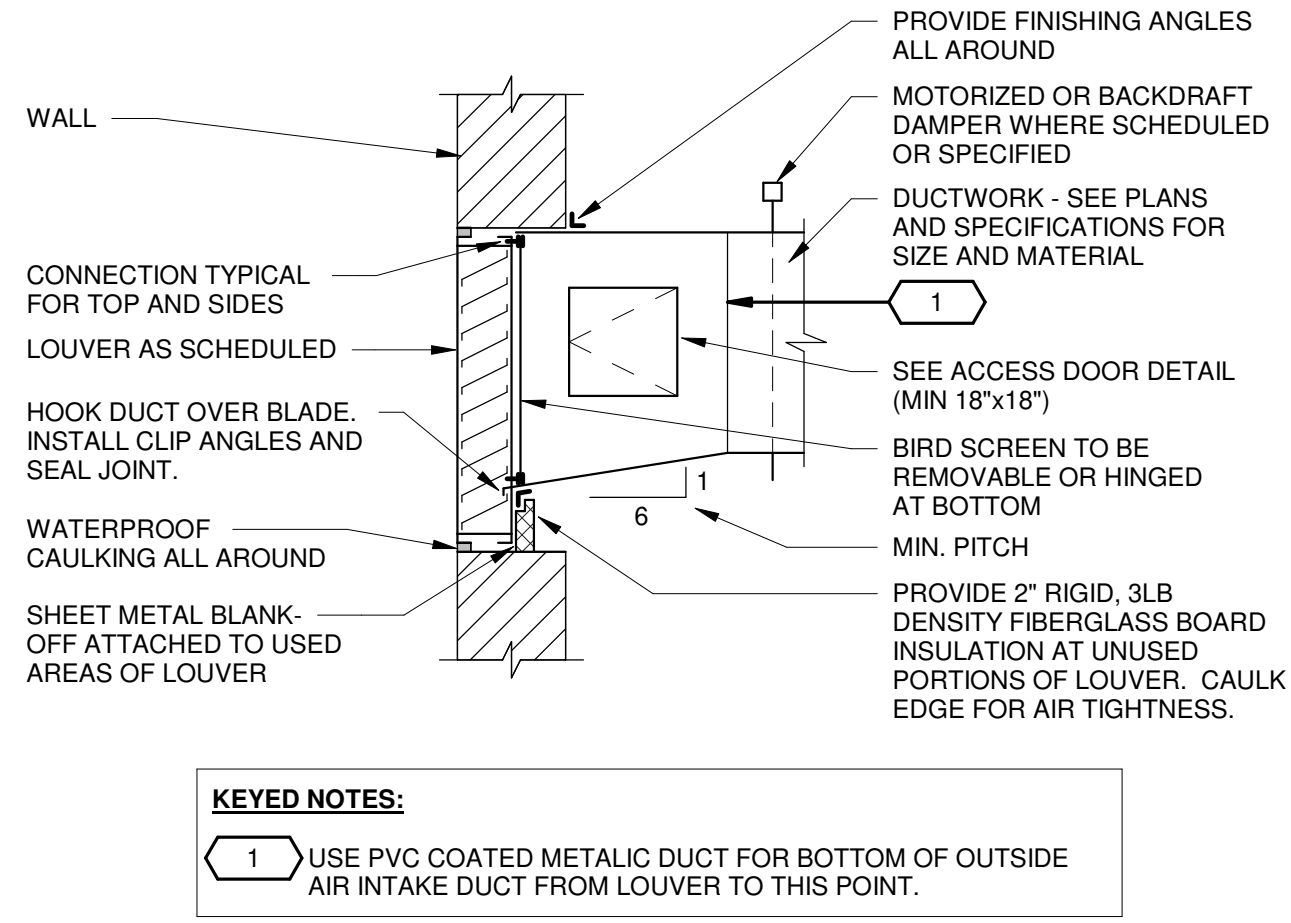
**1 FLEXIBLE DUCT TO CEILING DIFFUSER**  
NO SCALE



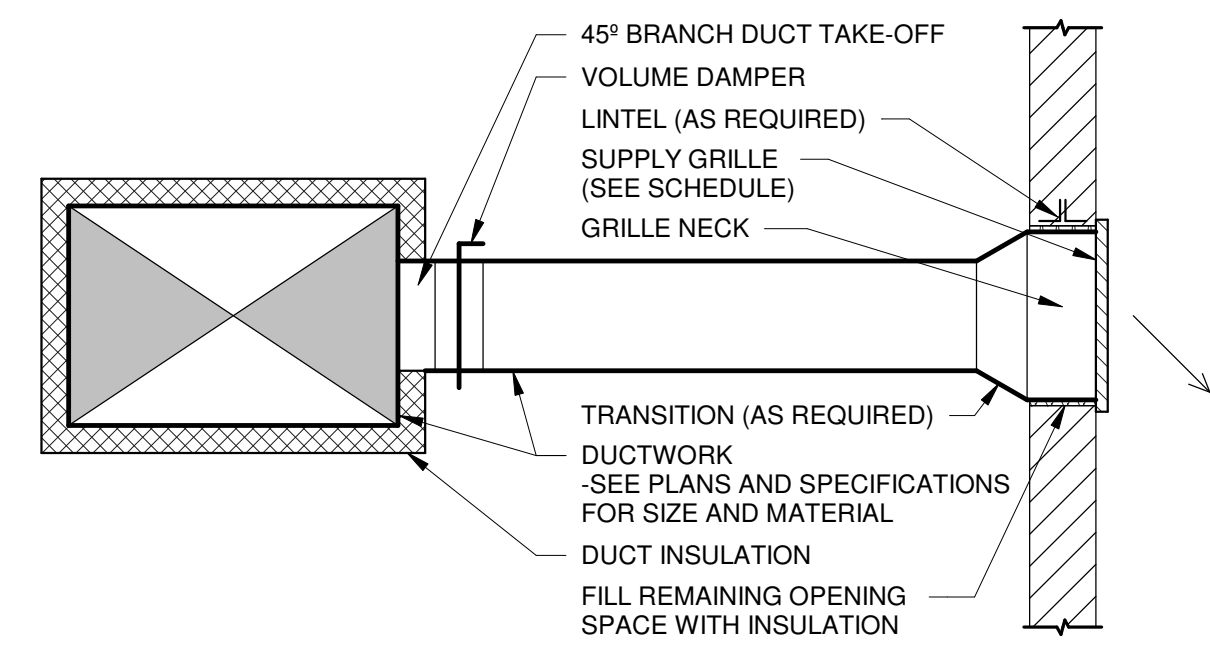
**15 CURB CAP DETAIL**  
NO SCALE



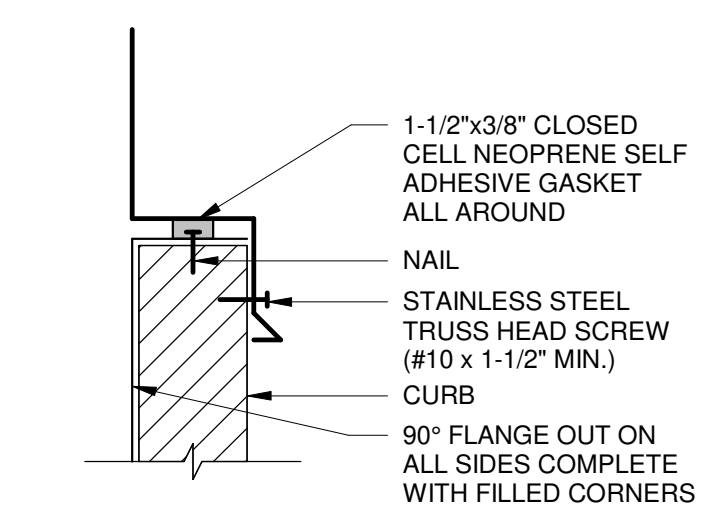
**11 ROOF DUCT PENETRATION**  
NO SCALE



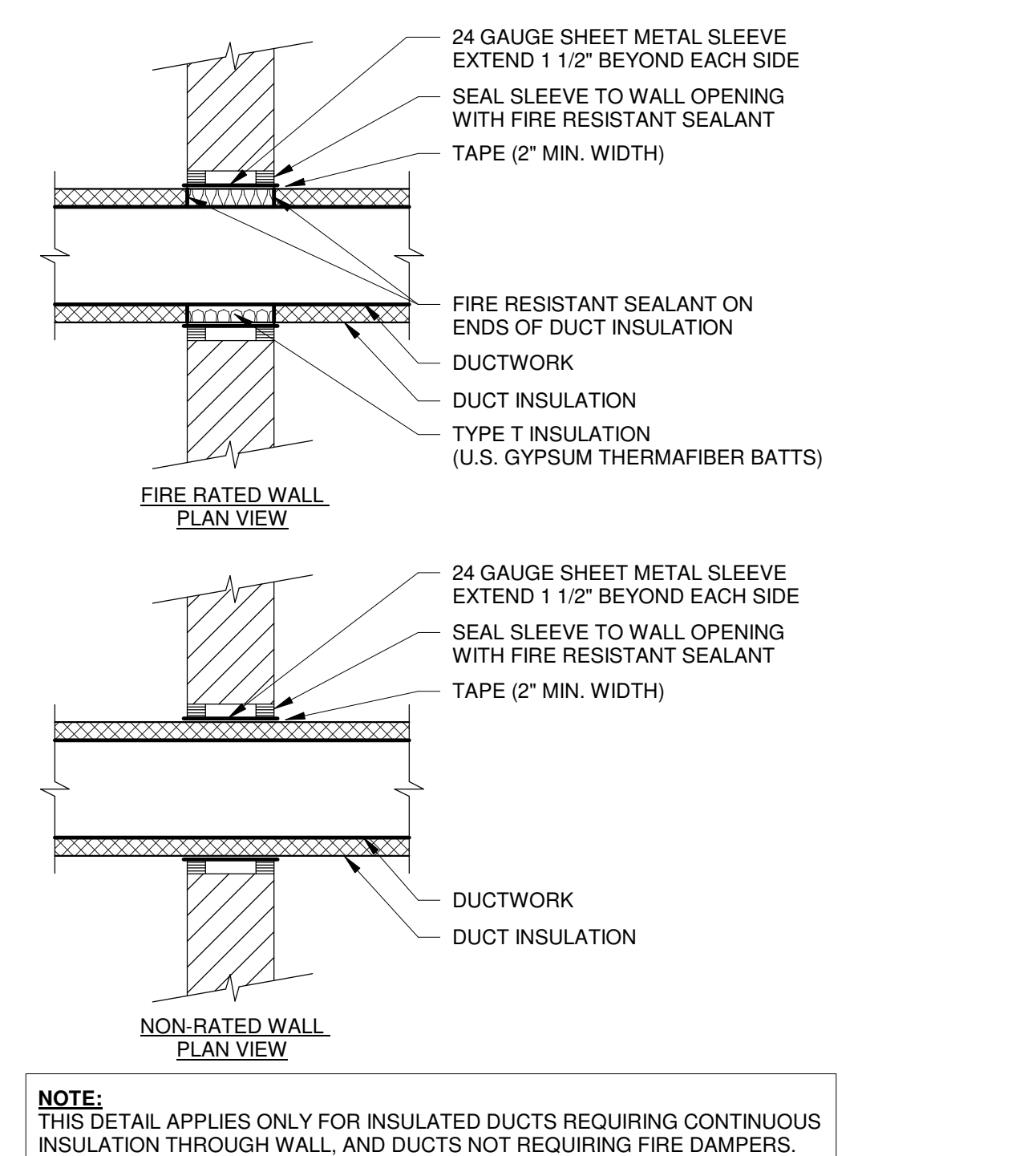
**7 DUCT CONNECTION TO LOUVER**  
NO SCALE



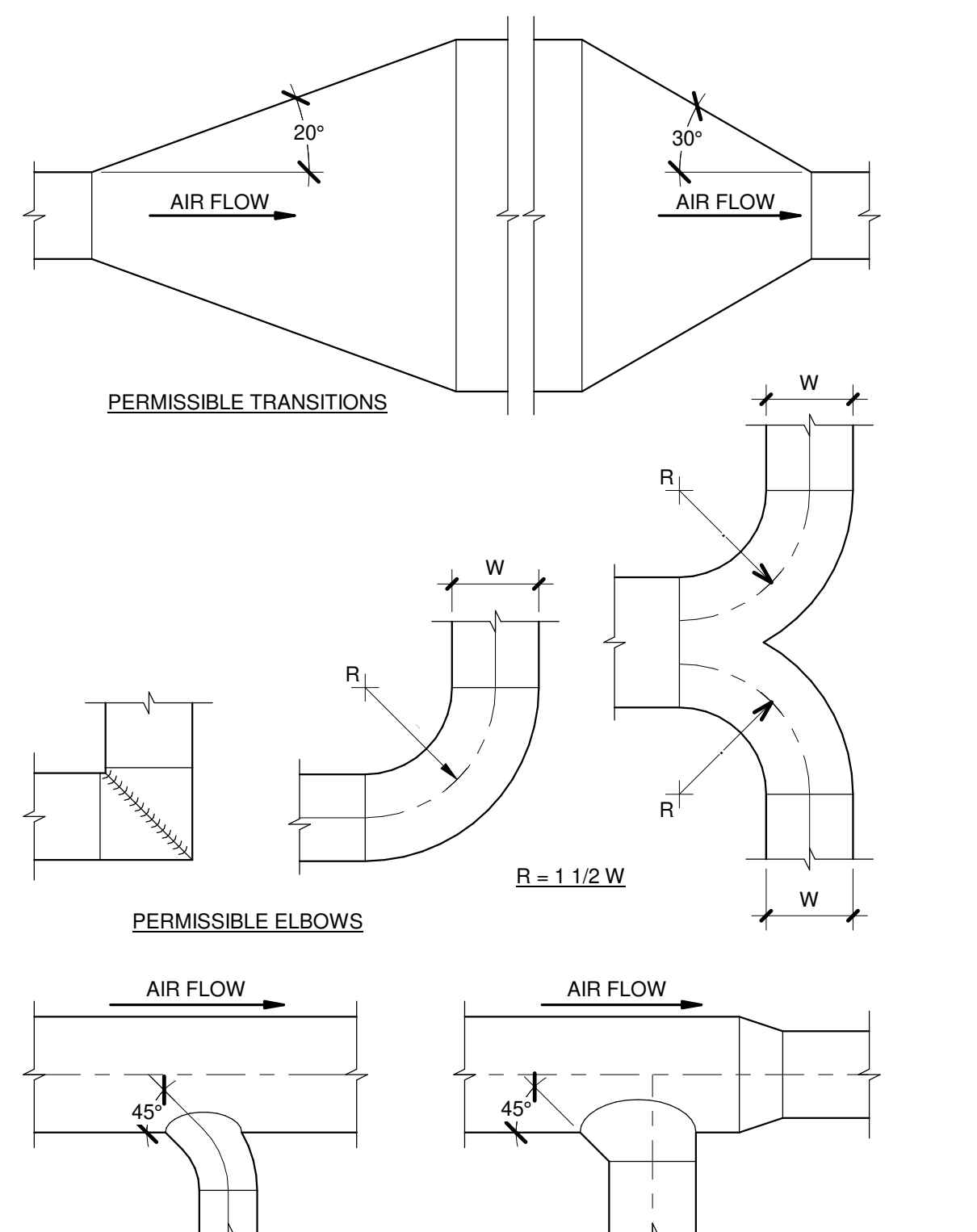
**2 RIGID DUCT TO WALL GRILLE**  
NO SCALE



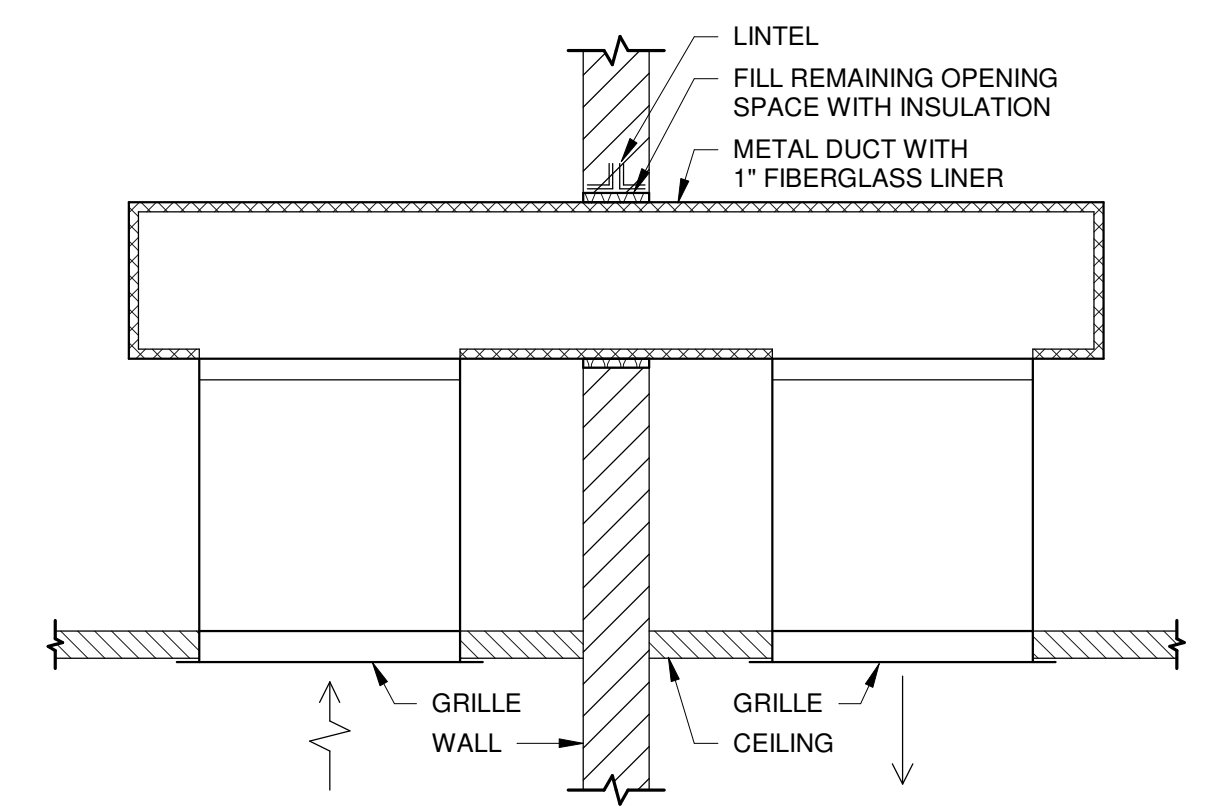
**16 CURB CAP FASTENING**  
NO SCALE



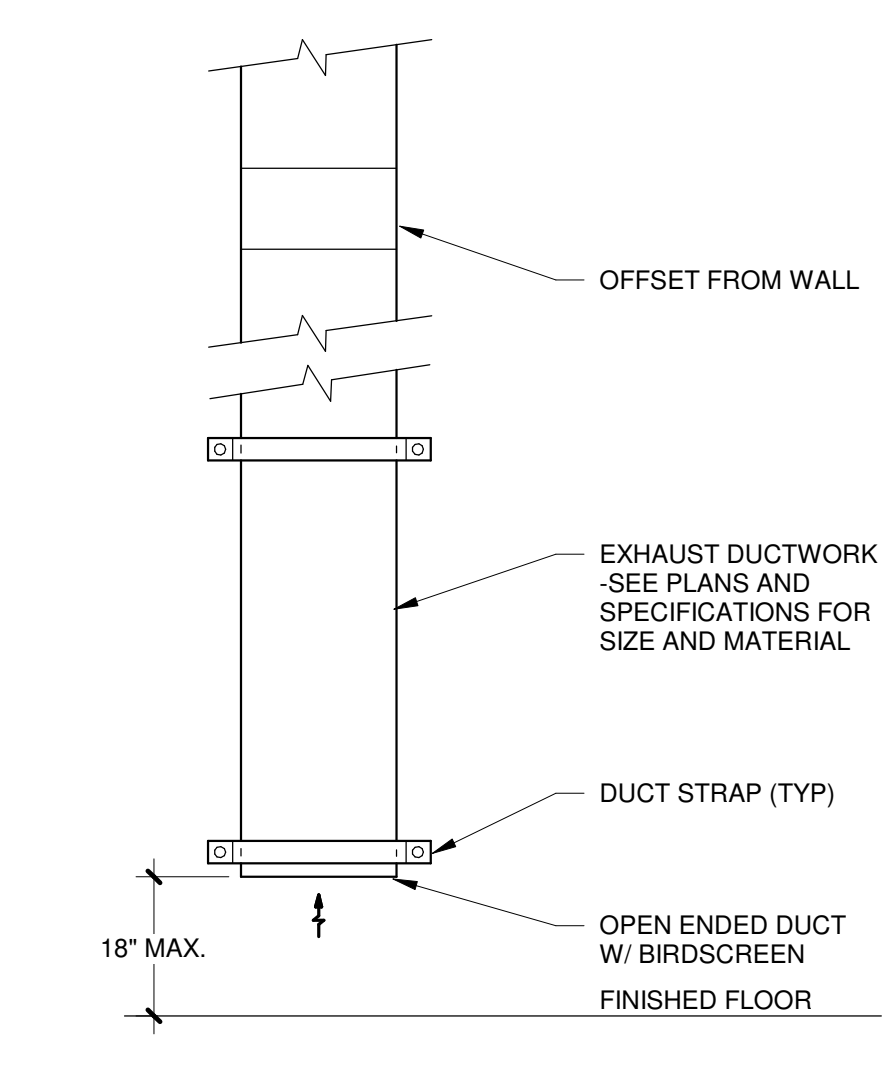
**12 DUCT PENETRATION THROUGH INTERIOR WALL**  
NO SCALE



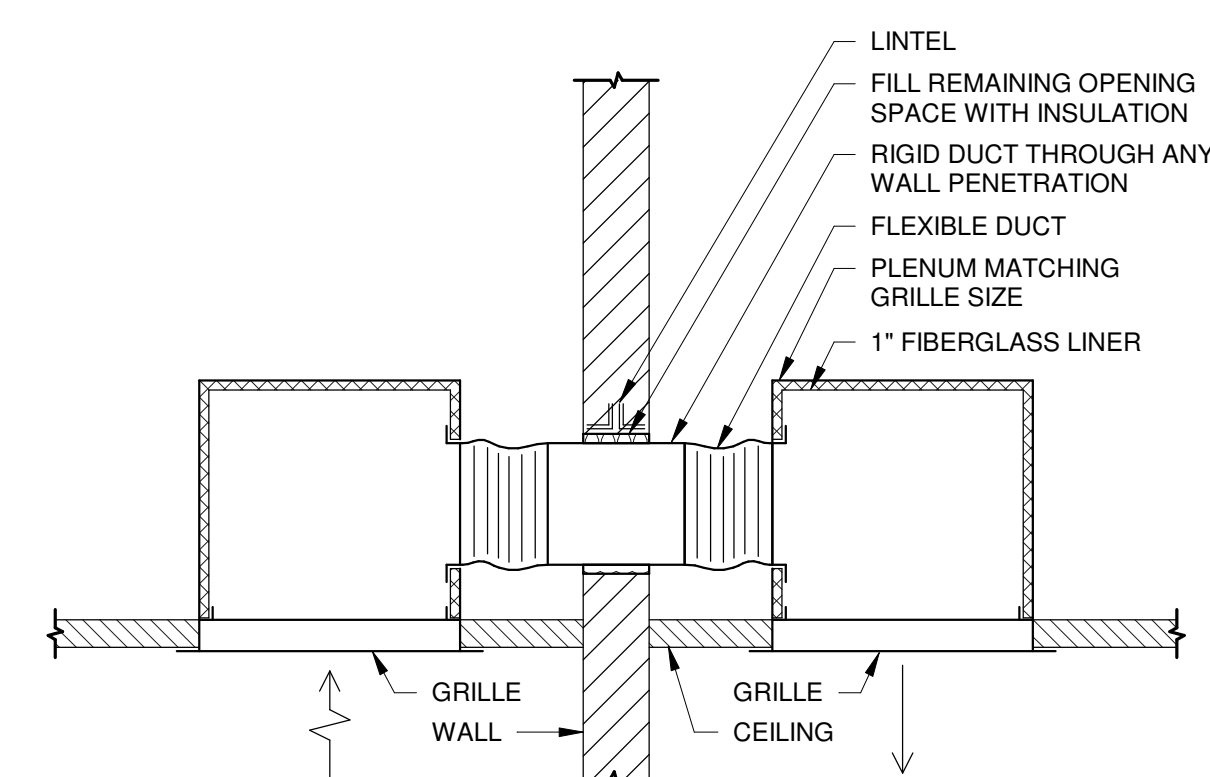
**8 TYPICAL DUCT TRANSITIONS**  
NO SCALE



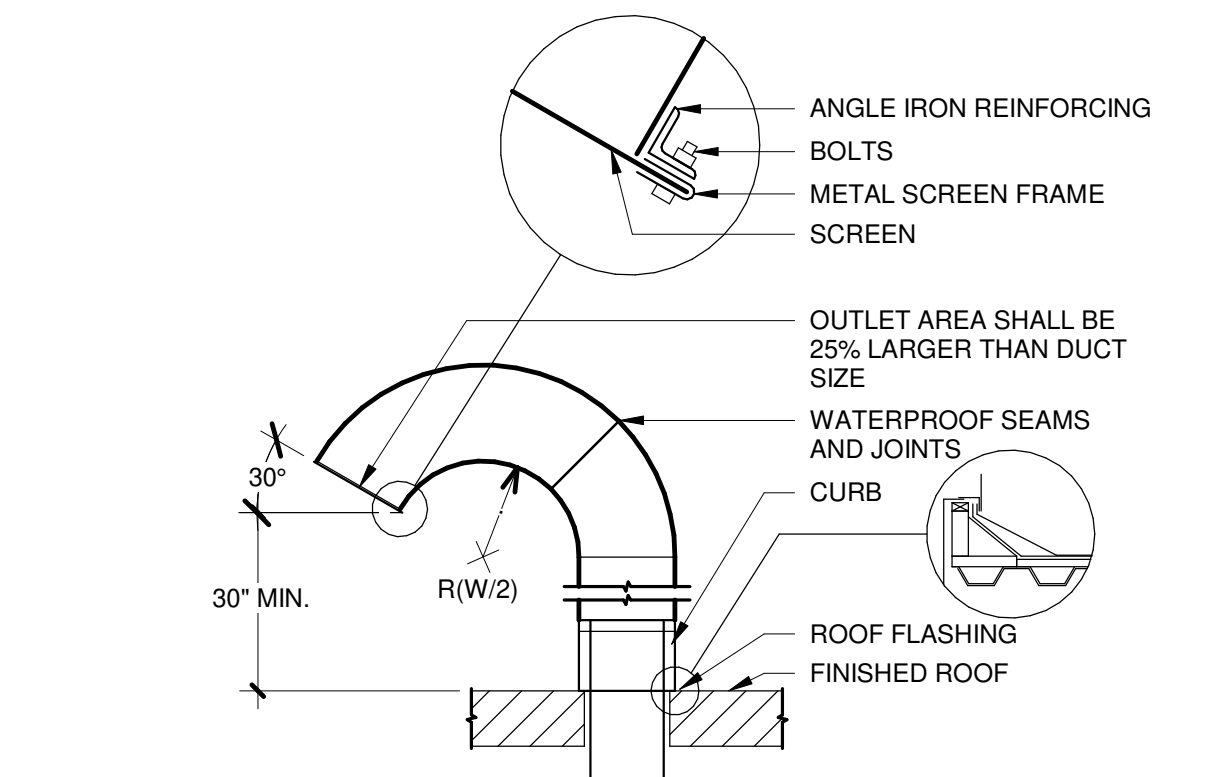
**3 TRANSFER DUCT WITH BOTTOM CONNECTION**  
NO SCALE



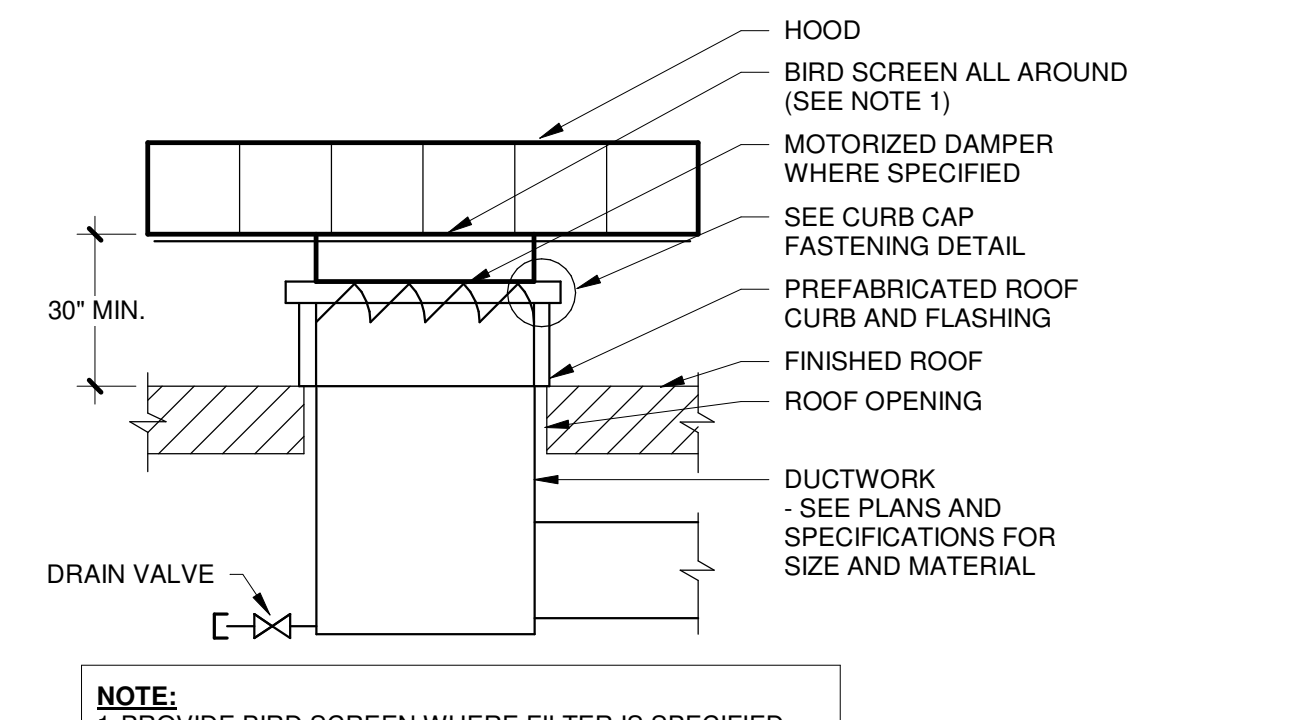
**17 RETURN/EXHAUST OED DUCT CONNECTION AT FLOOR**  
NO SCALE



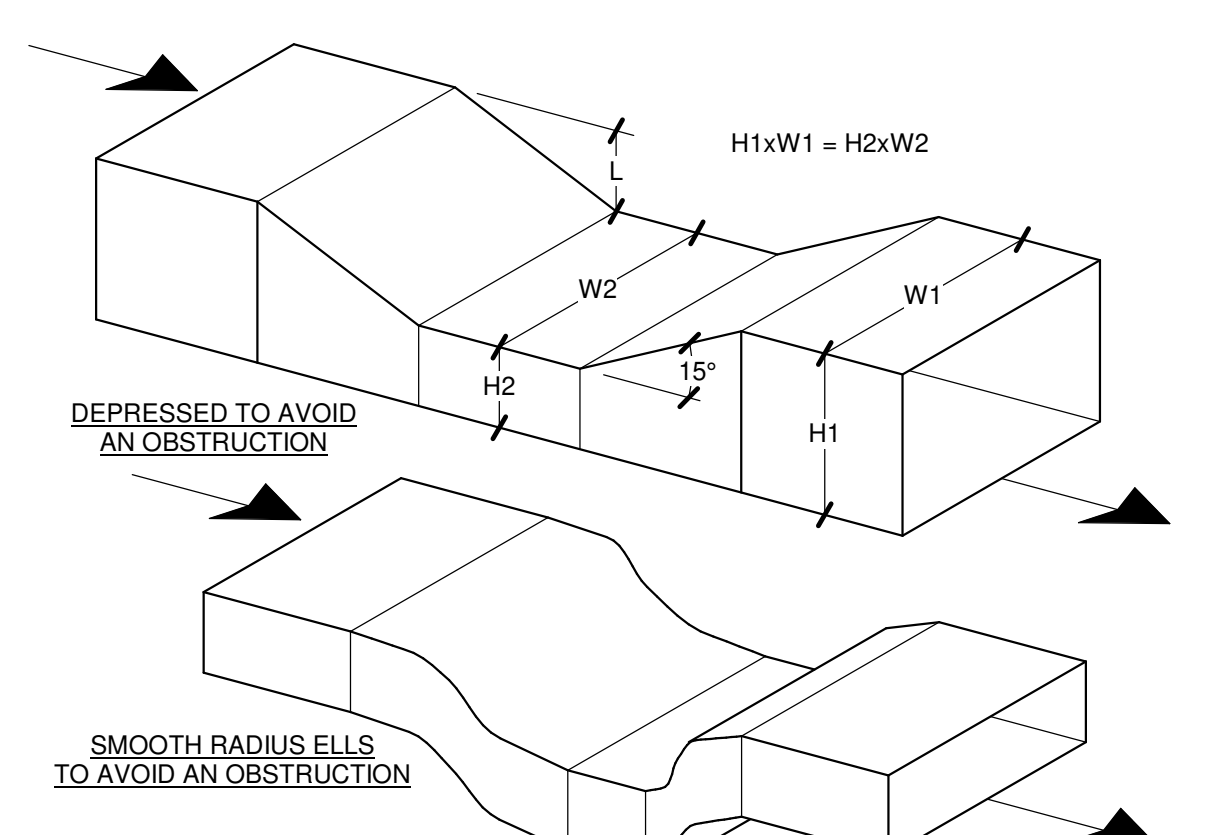
**4 TRANSFER DUCT WITH SIDE CONNECTION**  
NO SCALE



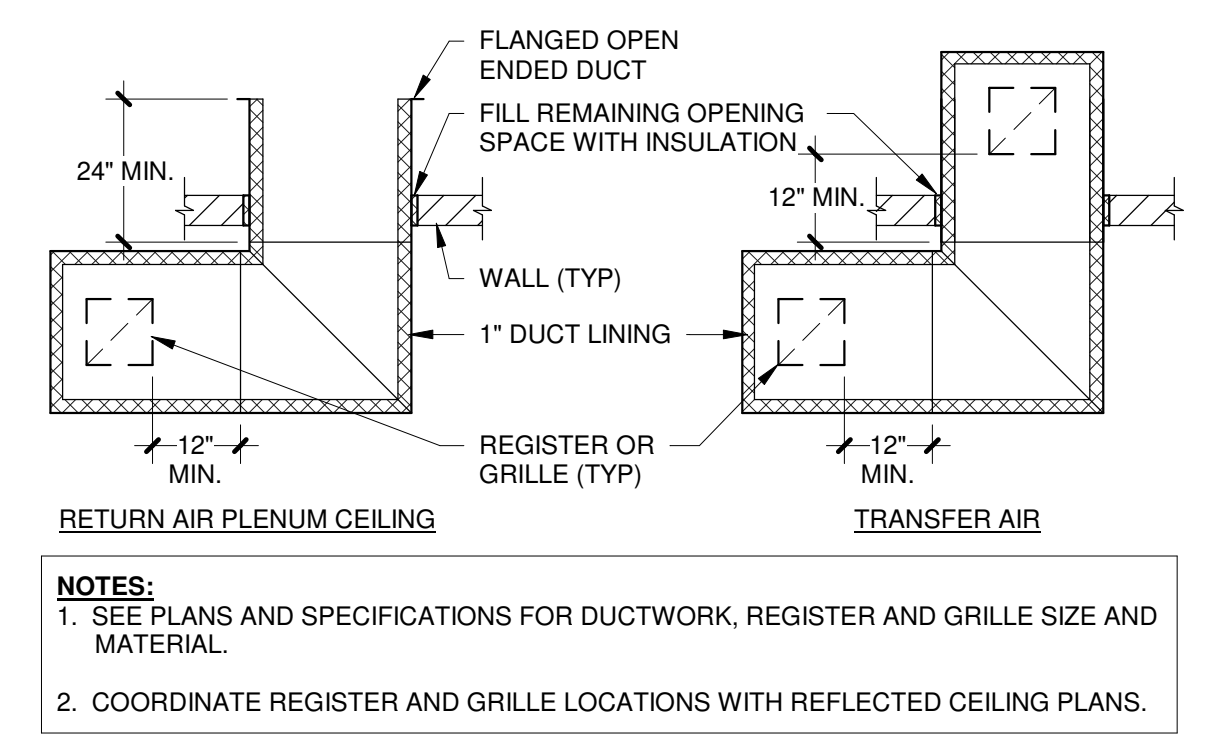
**18 GOOSENECK ROOF TERMINATION**  
NO SCALE



**13 RELIEF HOOD**  
NO SCALE

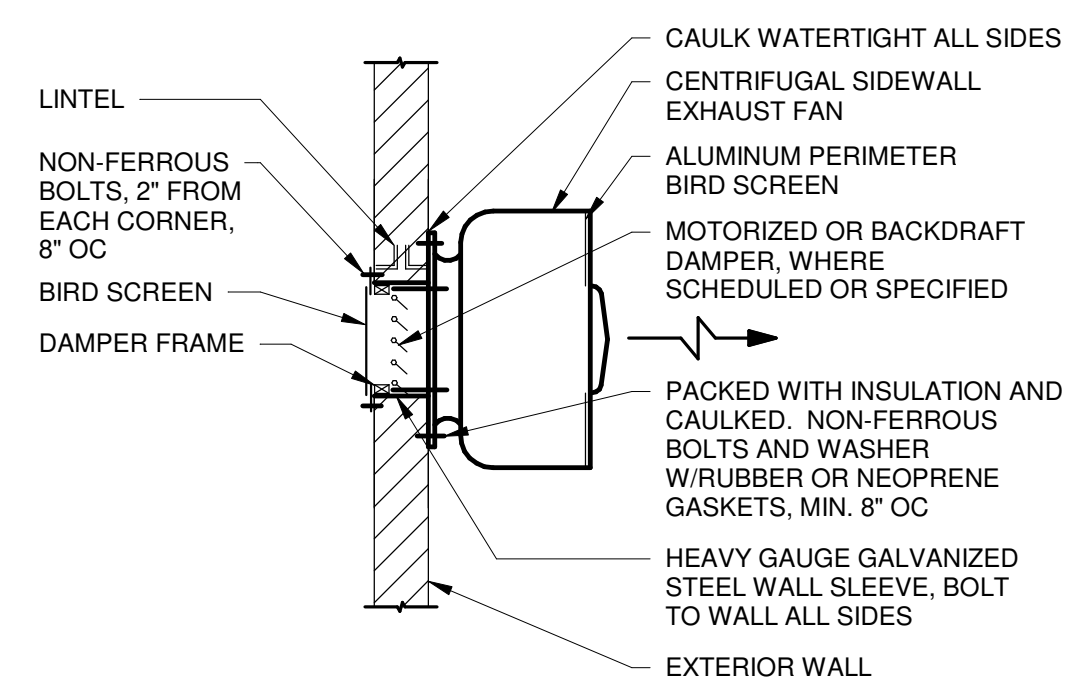


**9 TYPICAL DUCT OFFSET**  
NO SCALE

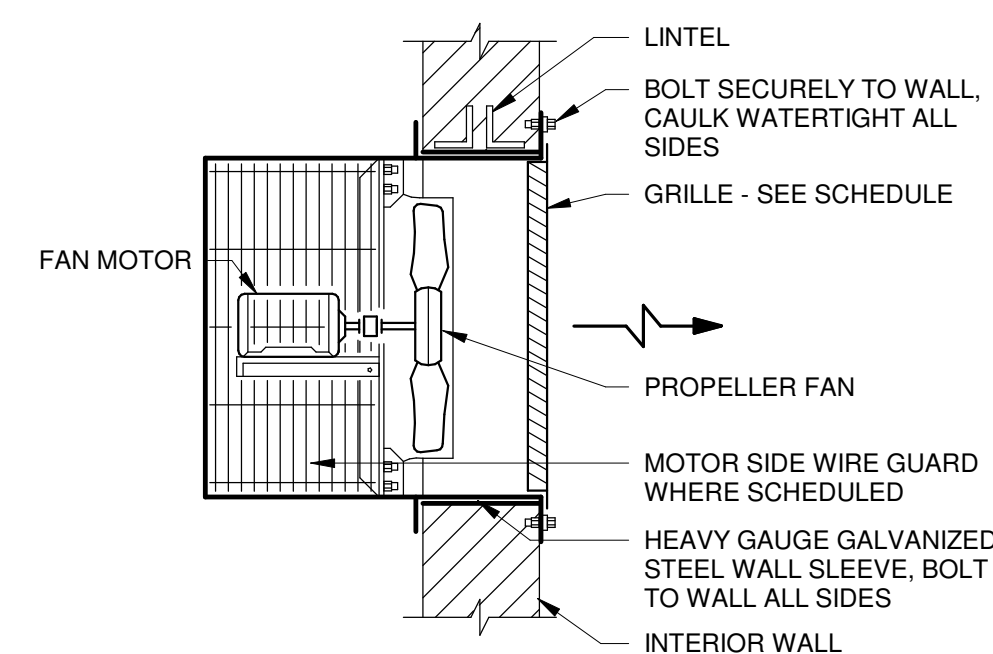


**5 RETURN AIR AND TRANSFER AIR SOUND TREATMENT**  
NO SCALE

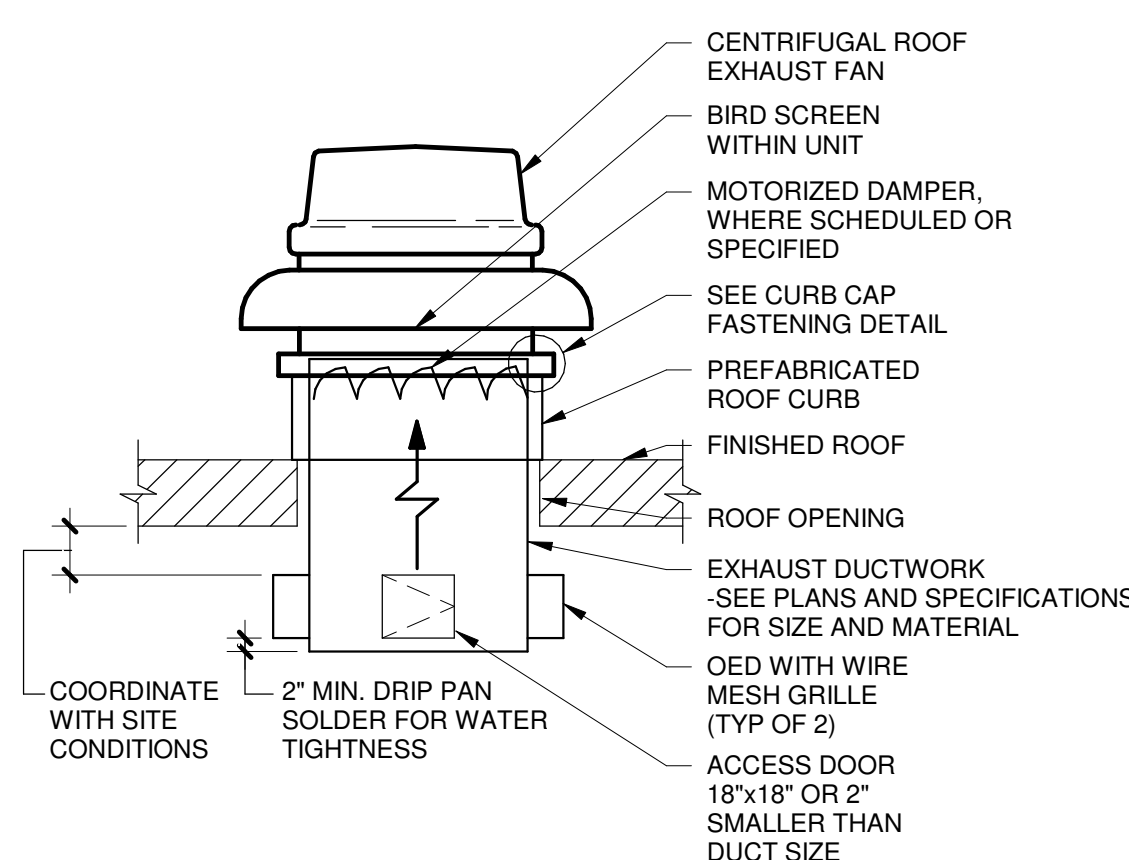
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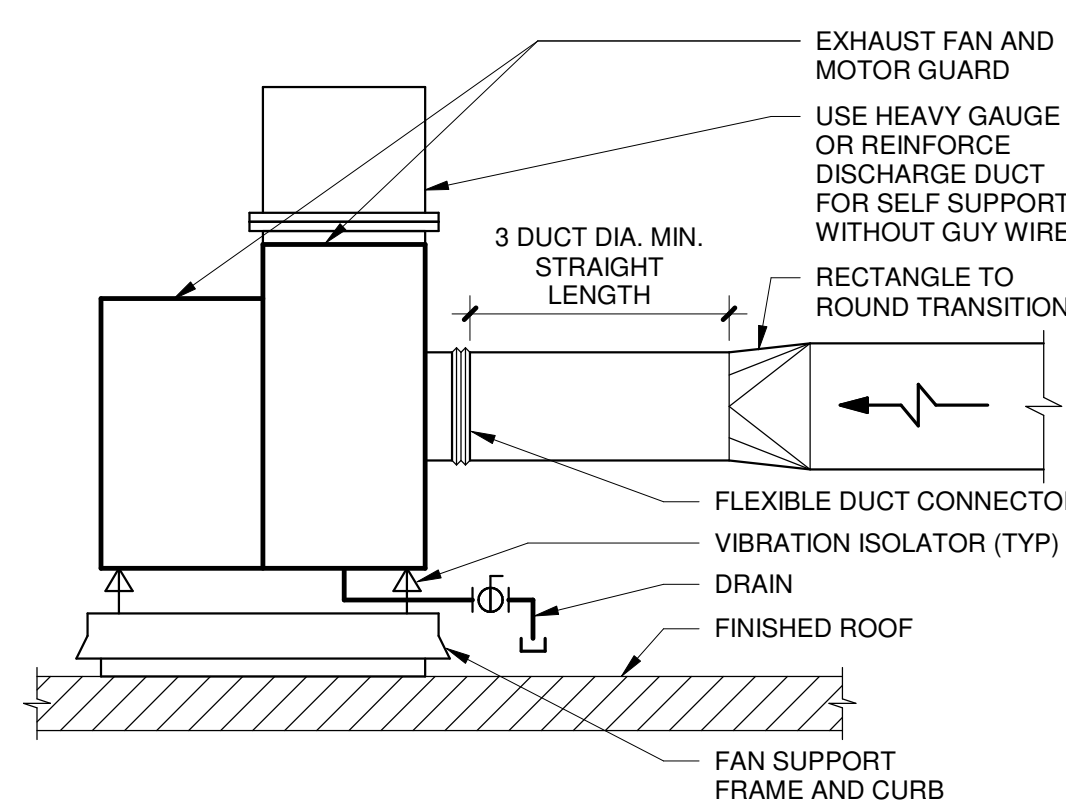
**5** **SIDEWALL EXTERIOR CENTRIFUGAL EXHAUST FAN**  
NO SCALE



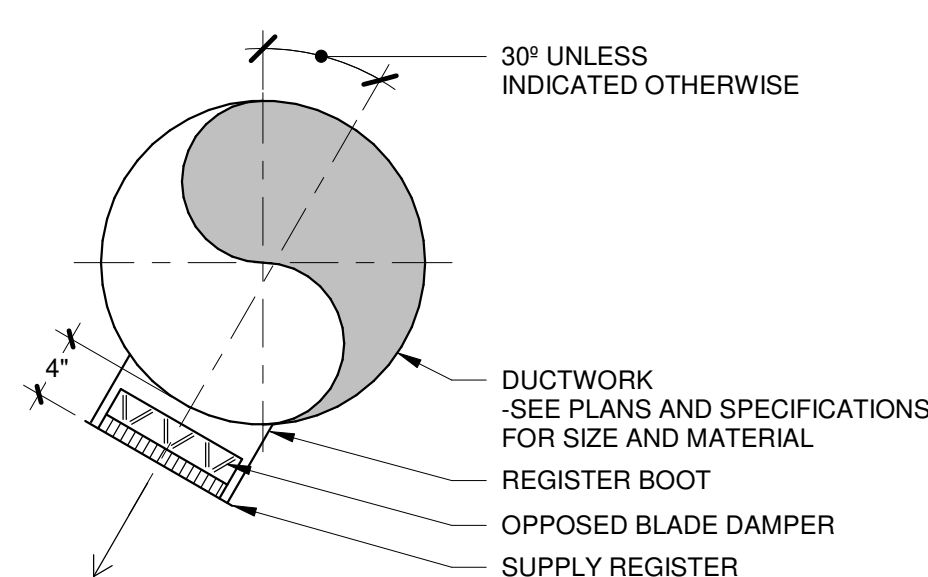
**6** **SIDEWALL INTERIOR PROPELLER FAN**  
NO SCALE



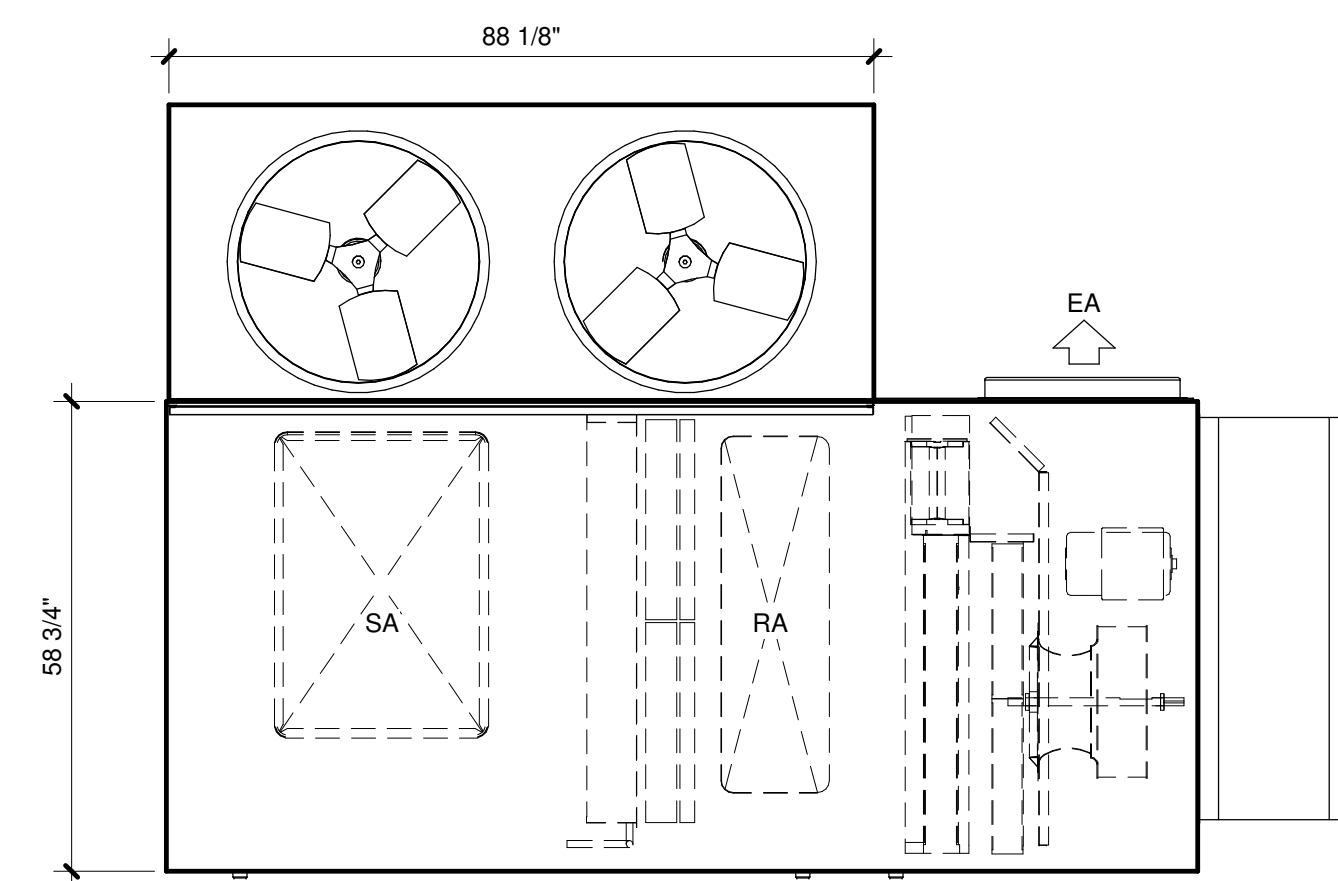
**7** **CENTRIFUGAL ROOF EXHAUST FAN WITH DRIP PAN**  
NO SCALE



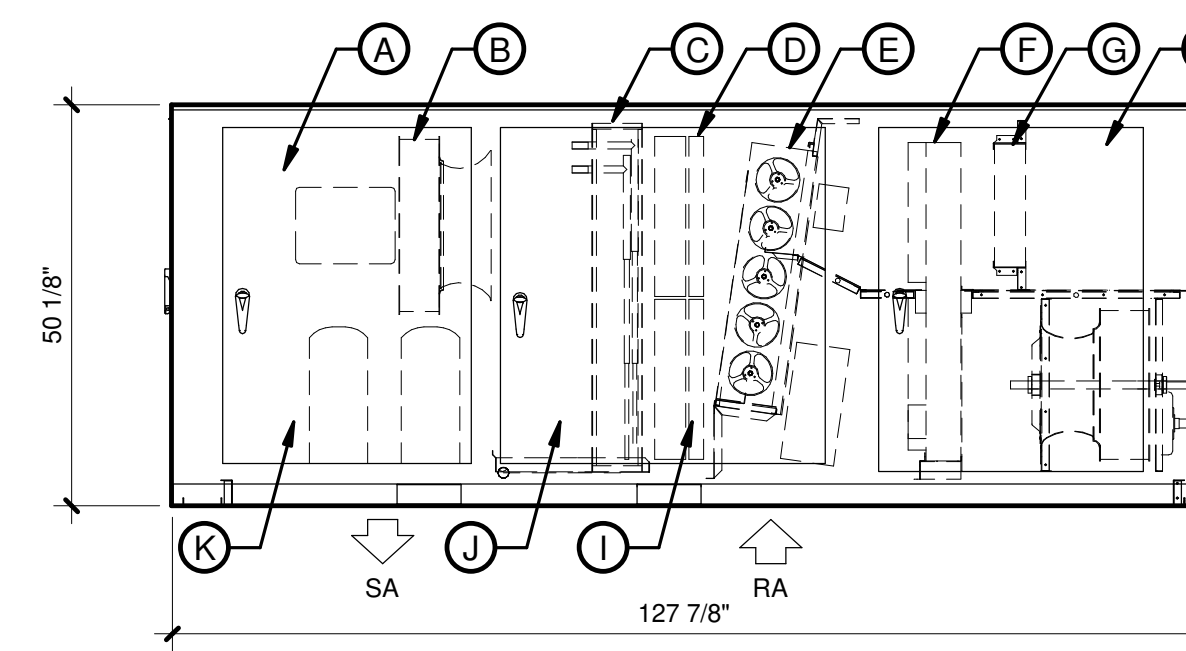
**8** **ROOF MOUNTED VERTICAL DISCHARGE EXHAUST FAN**  
NO SCALE



**9** **ANGLED SUPPLY REGISTER**  
NO SCALE



**PLAN VIEW**

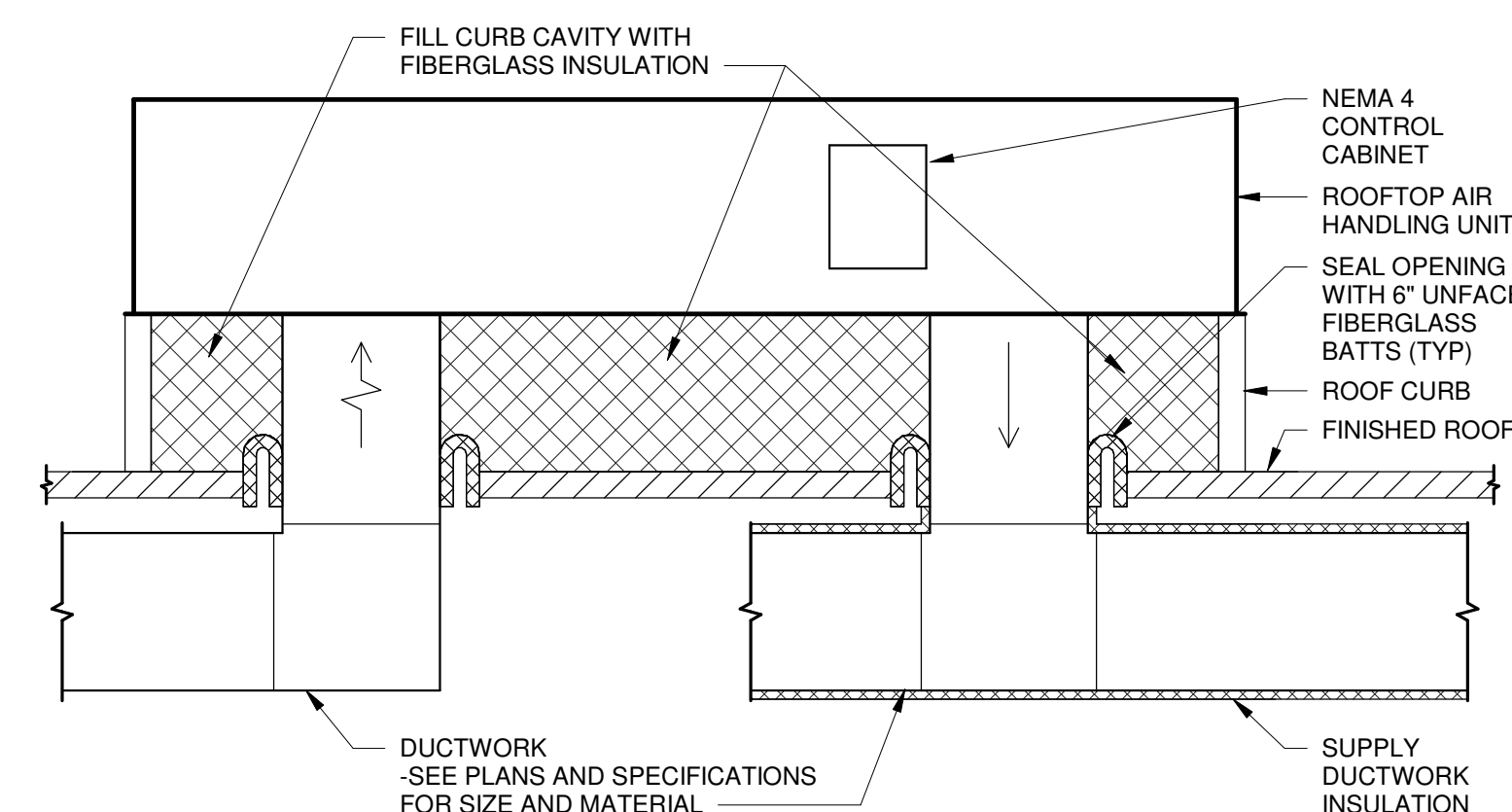


**SIDE VIEW**

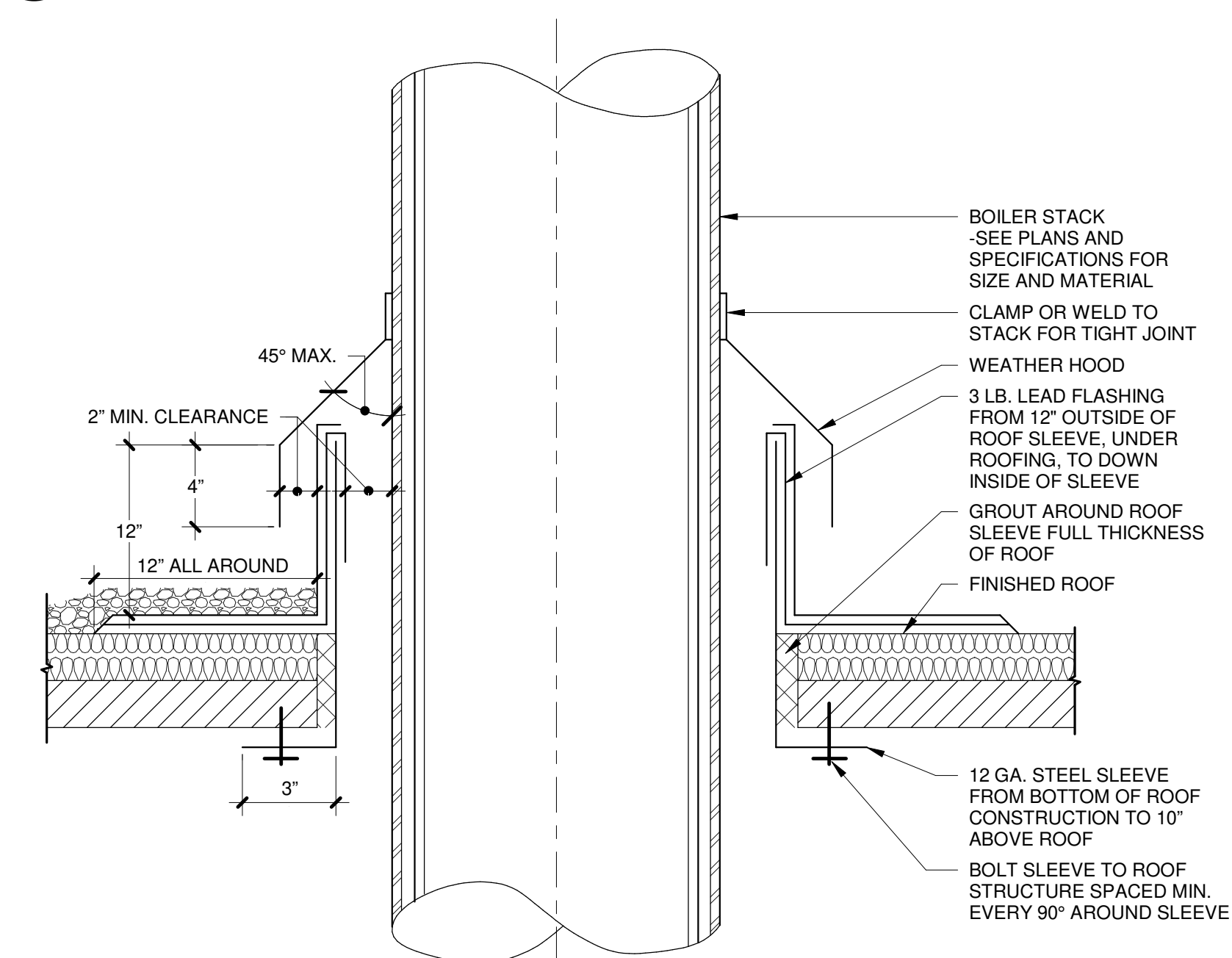
**LEGEND:**

- (A) BLOWER ACCESS
- (B) SUPPLY BLOWER
- (C) COIL
- (D) FILTER
- (E) ECONOMIZER
- (F) HEATWHEEL
- (G) HEATWHEEL FILTER
- (H) HEATWHEEL ACCESS
- (I) FILTER ACCESS
- (J) COIL ACCESS
- (K) COMPRESSOR ACCESS

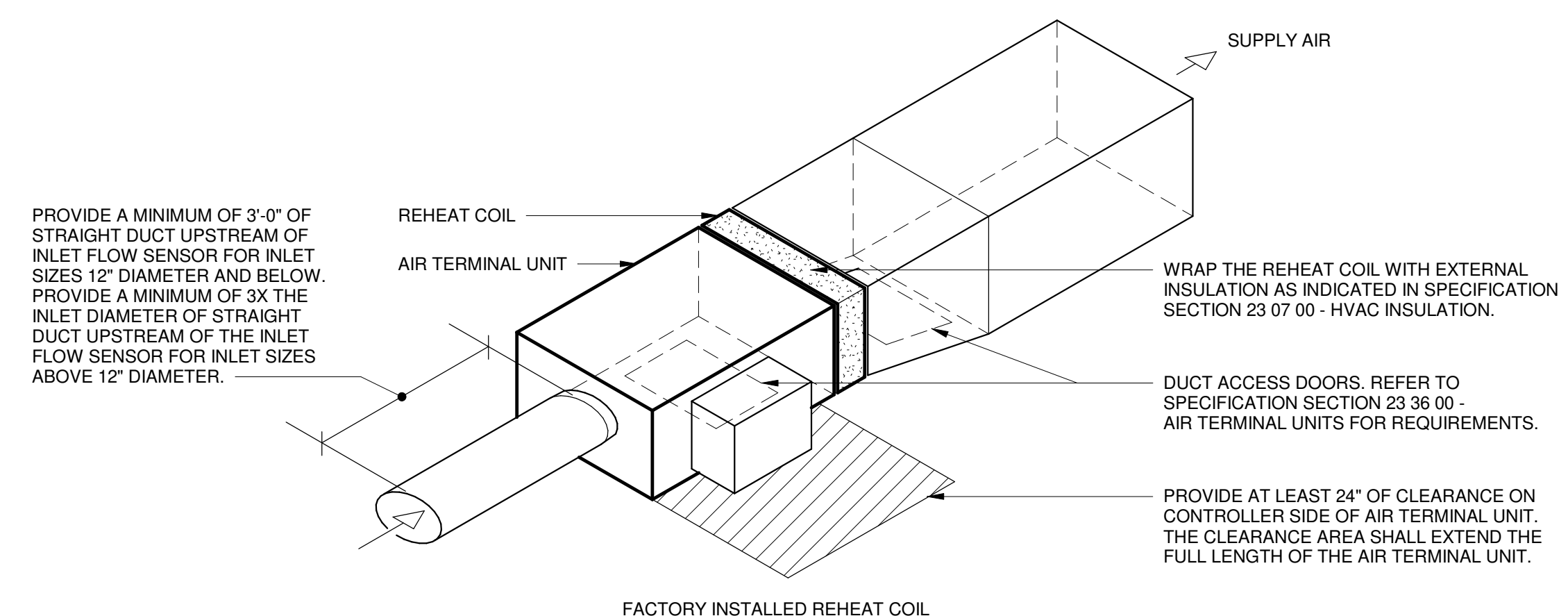
**1** **AHU-1 ARRANGEMENT DETAIL**  
NO SCALE



**2** **OUTDOOR UNIT (AHU-1, MAU-11 & MAU-12) SECTION**  
NO SCALE

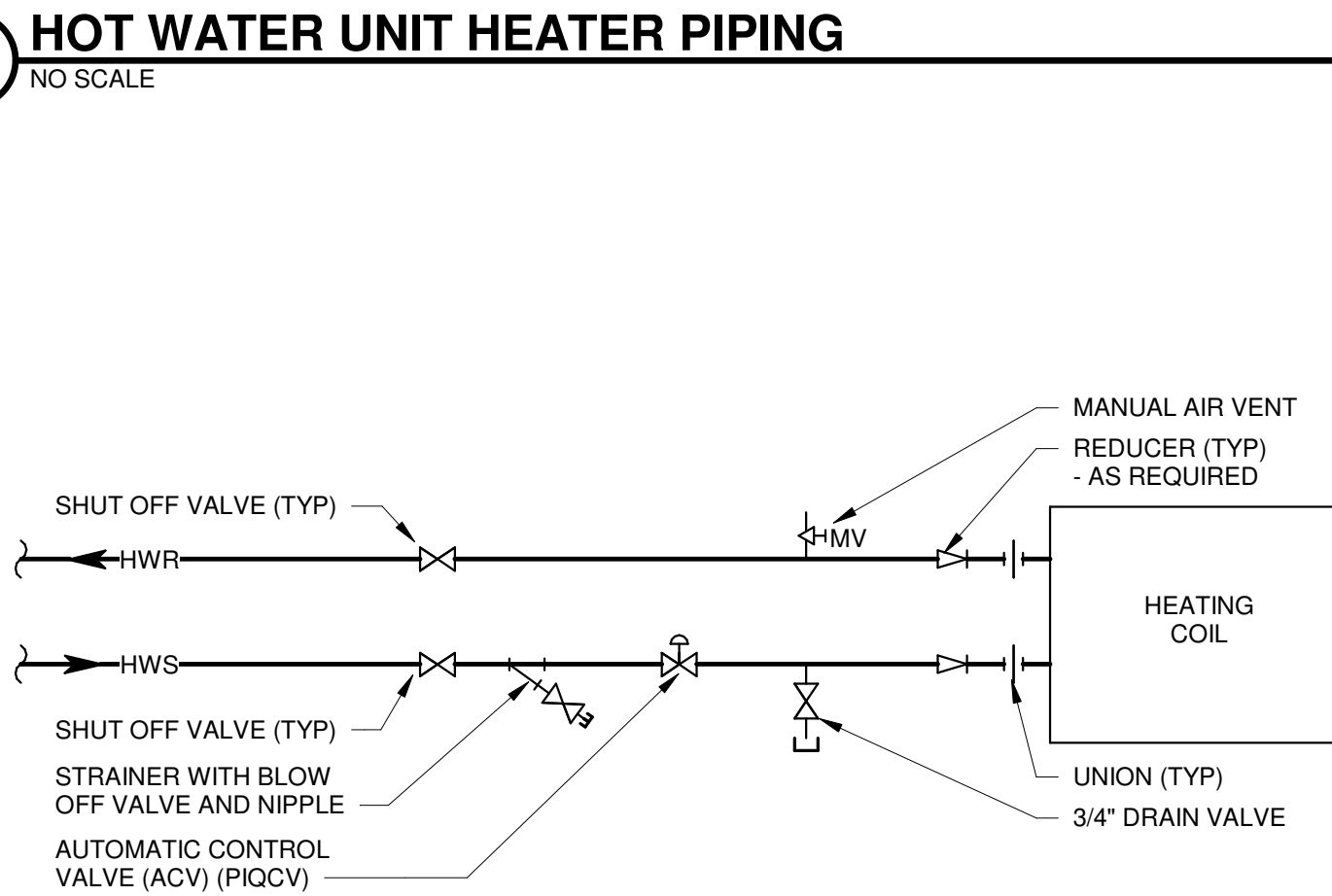
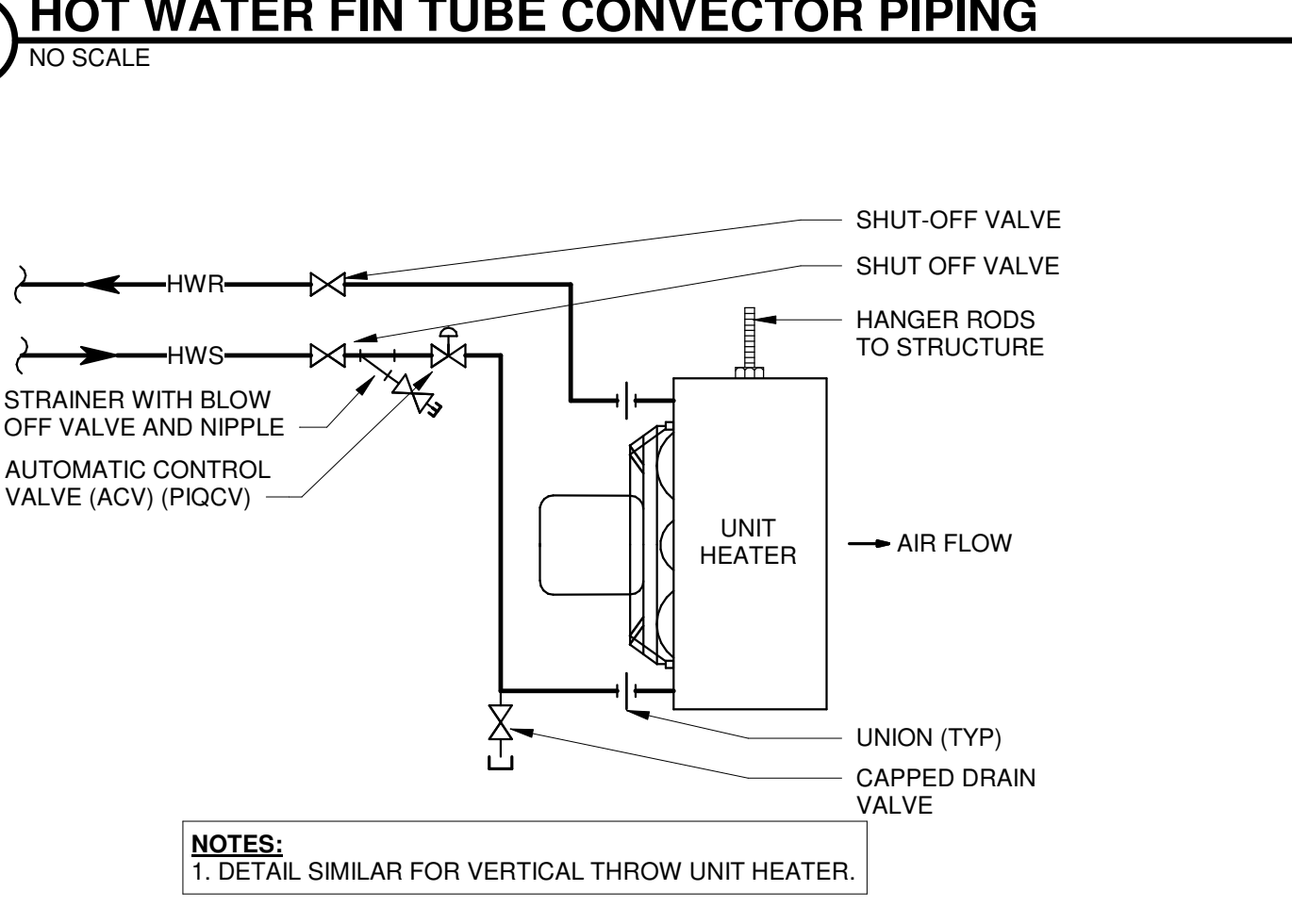
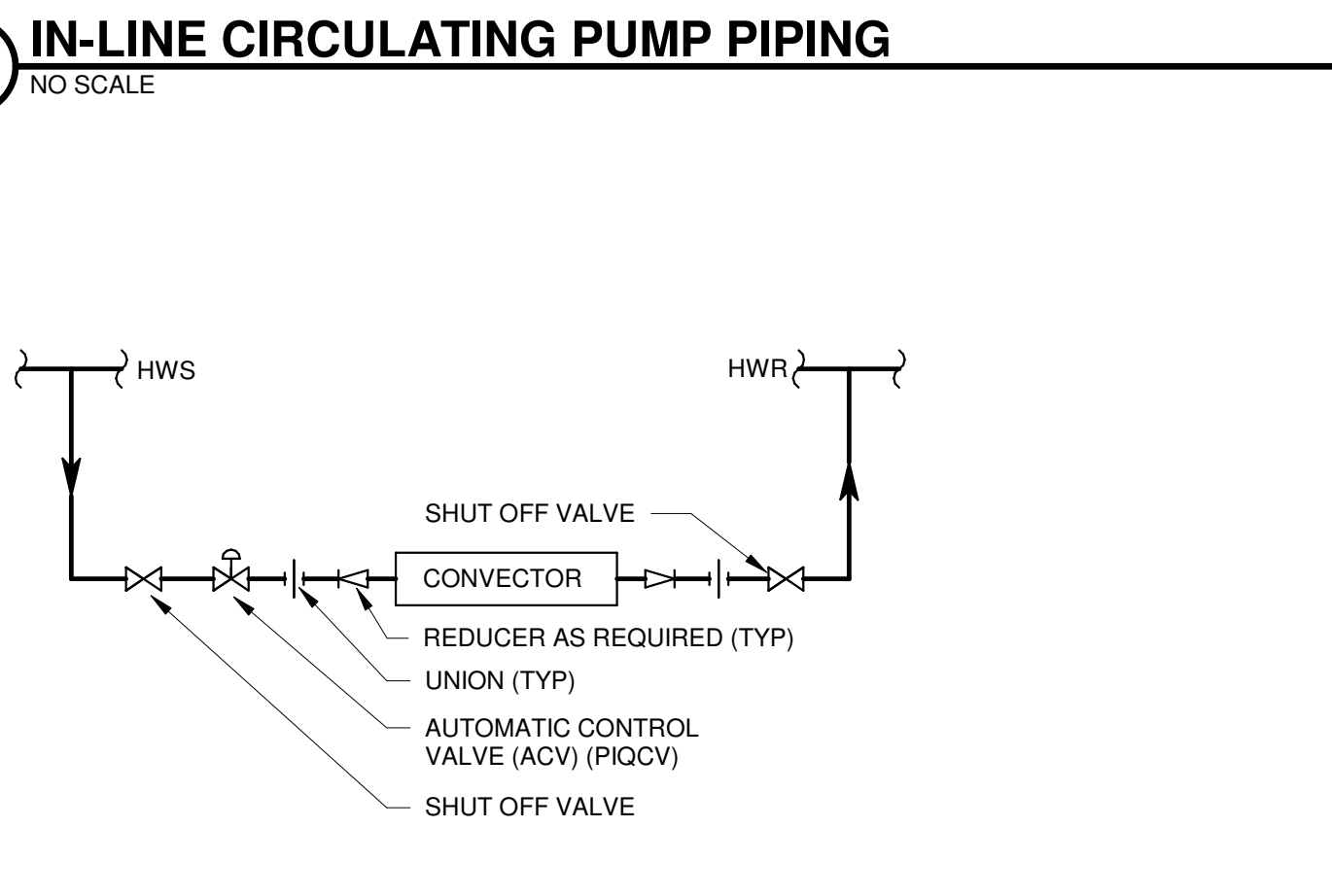
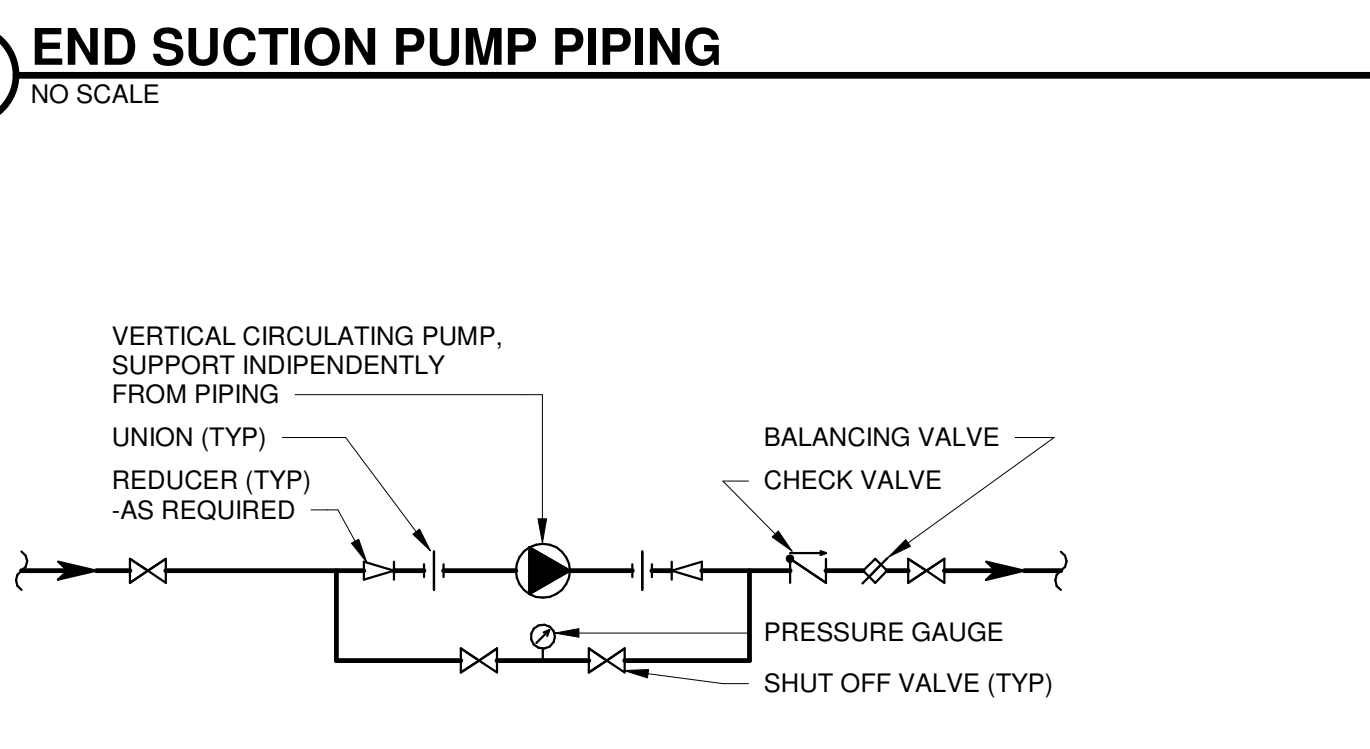
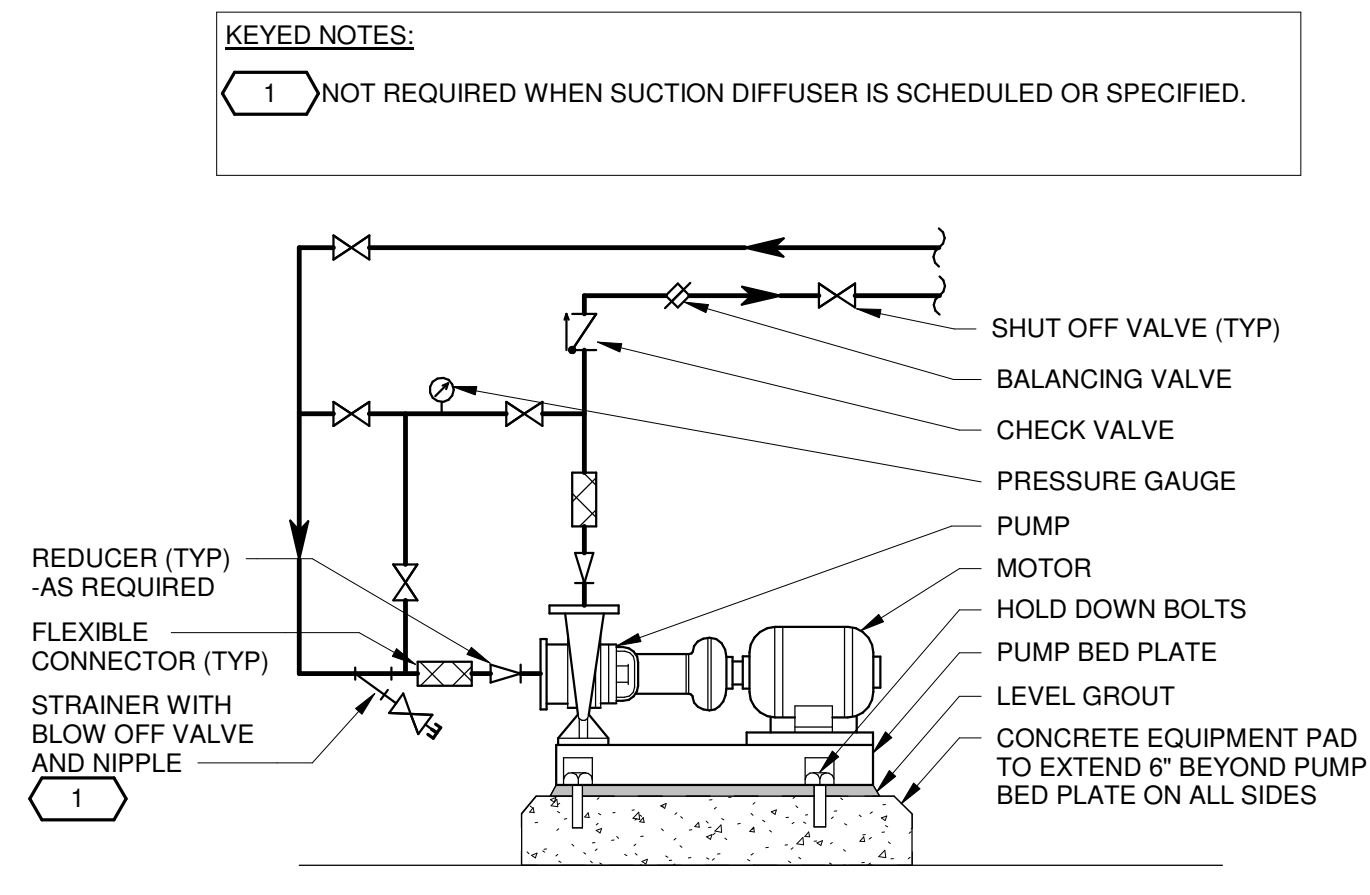
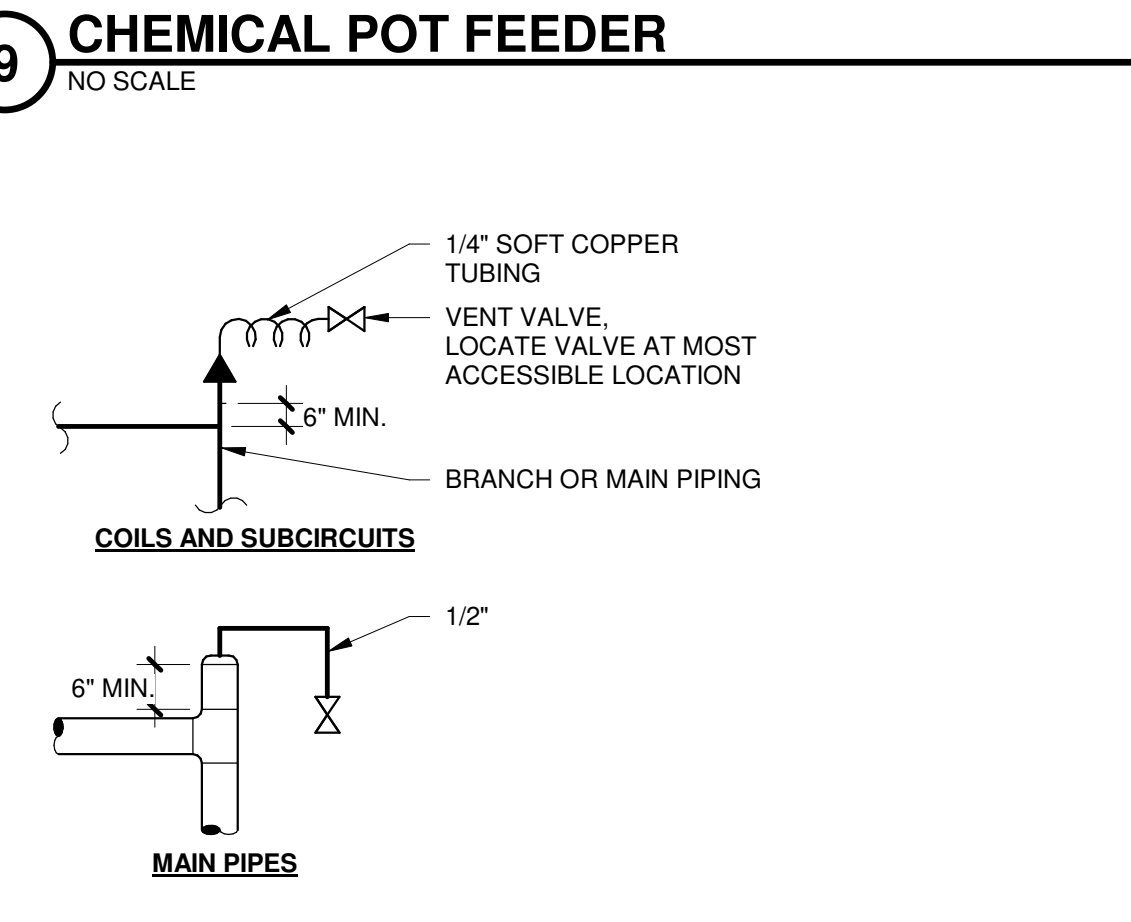
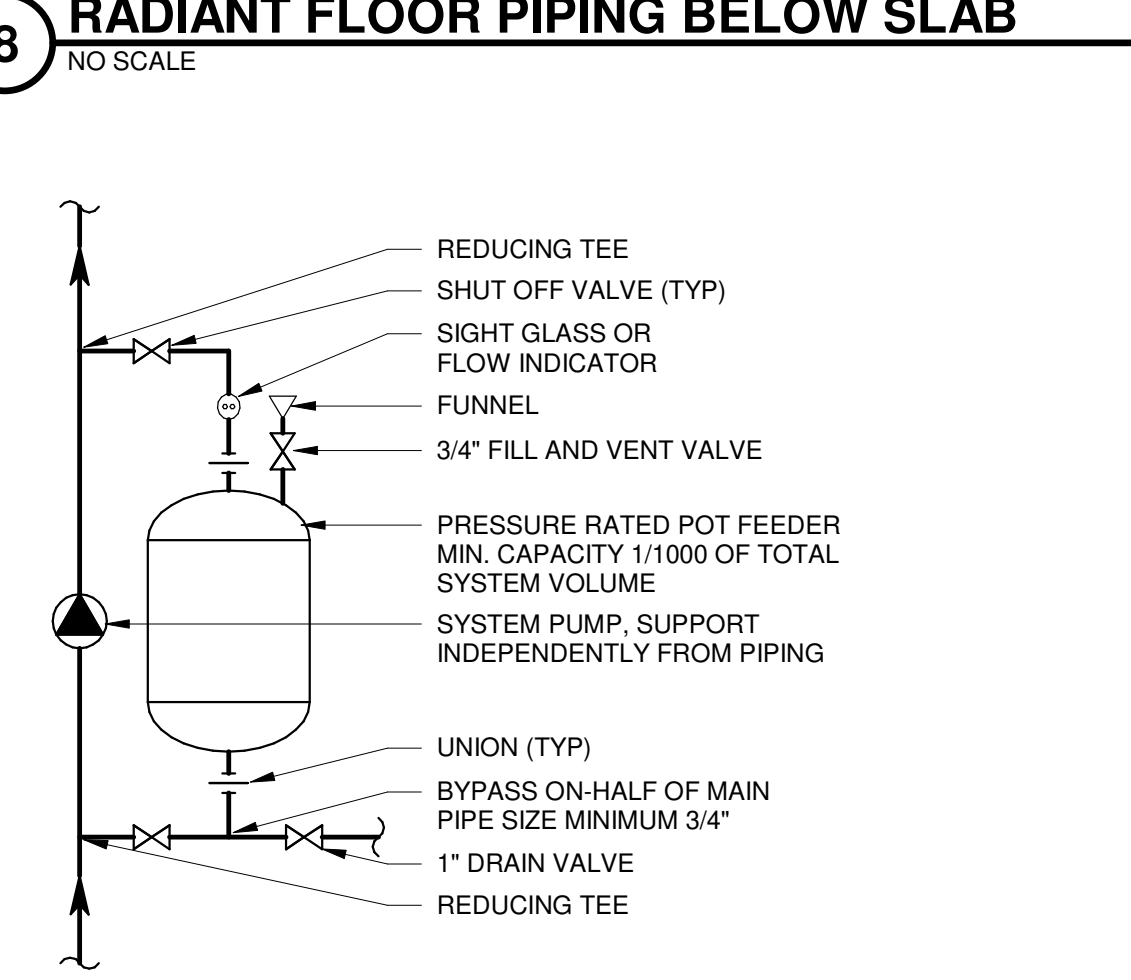
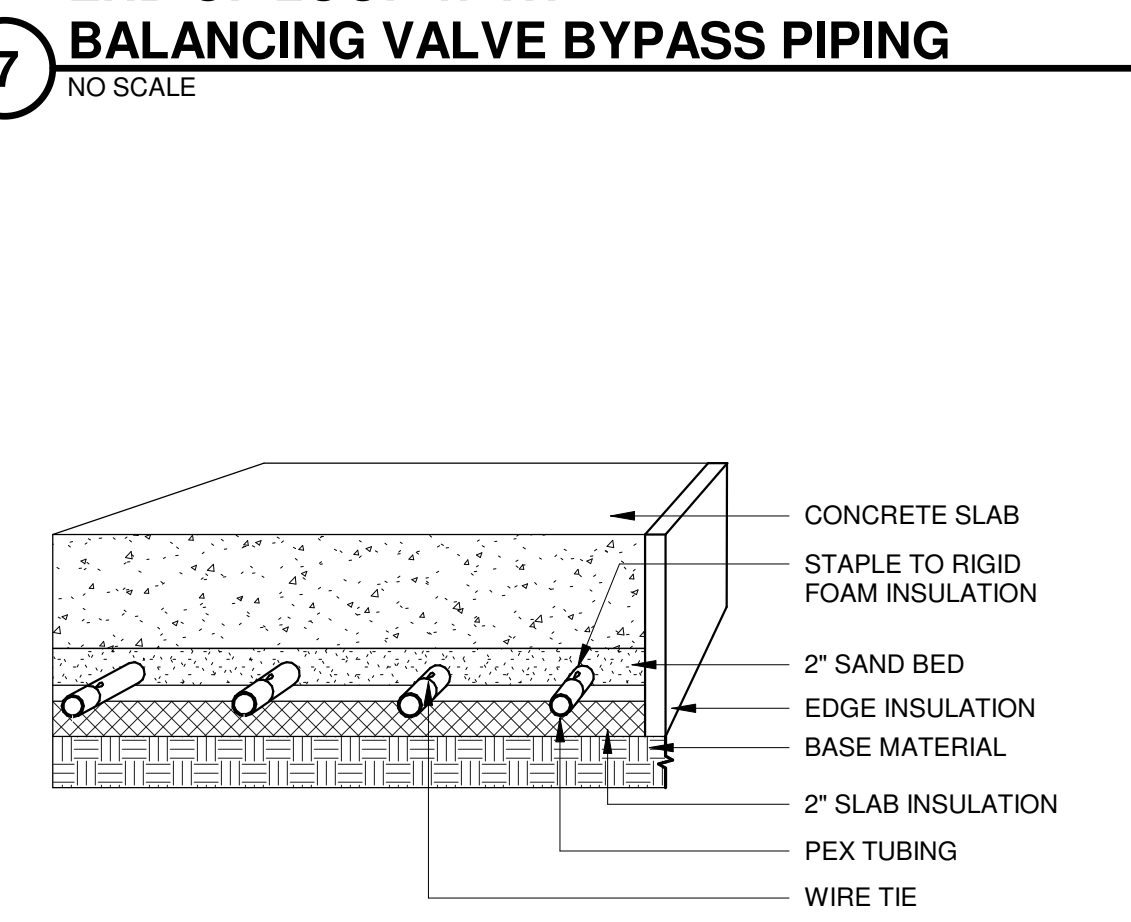
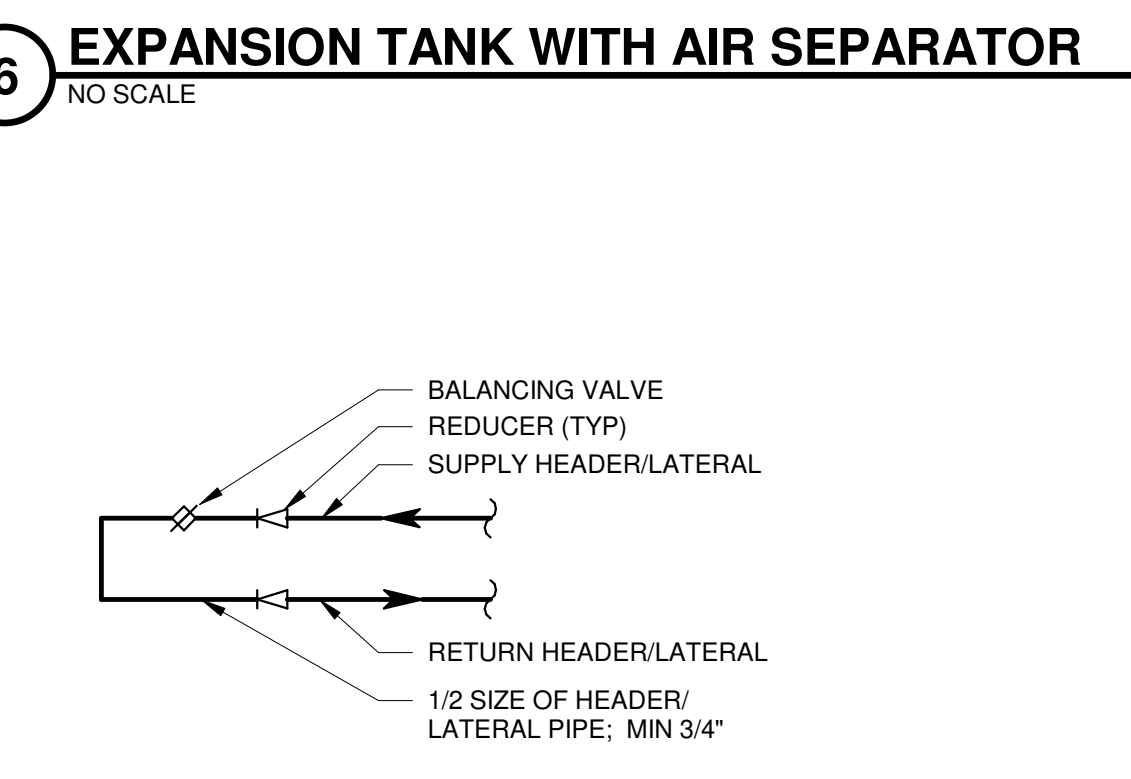
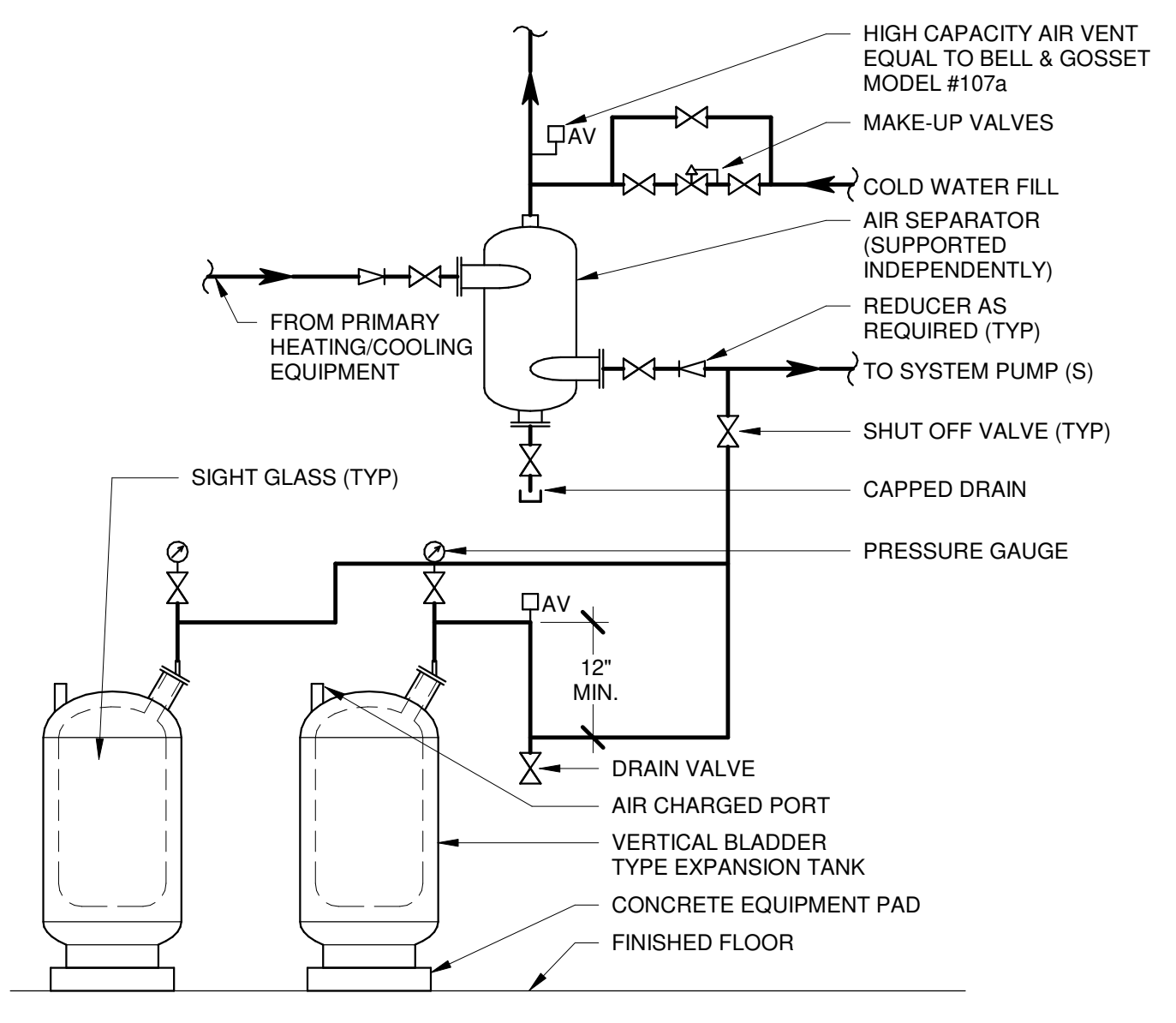
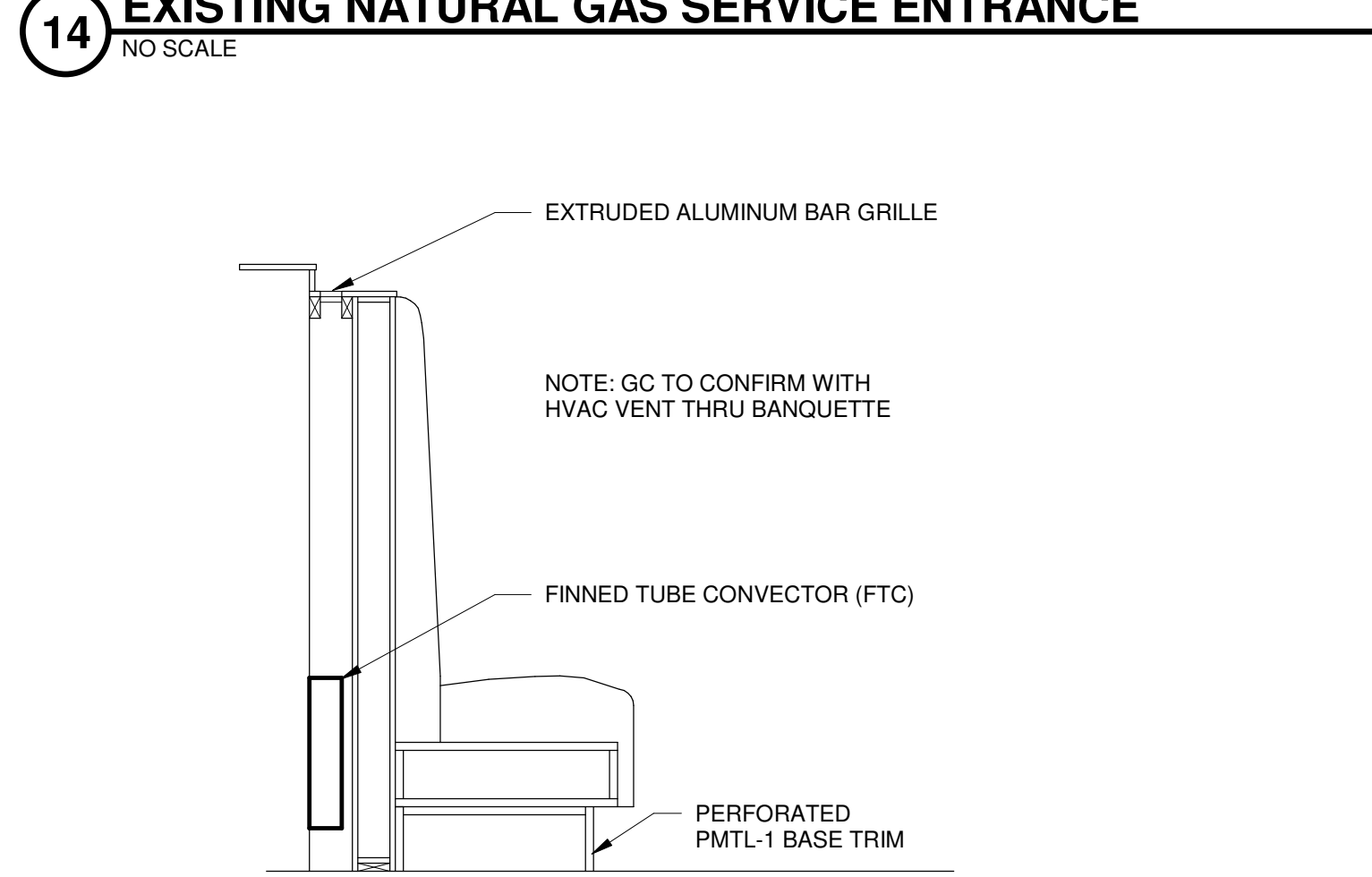
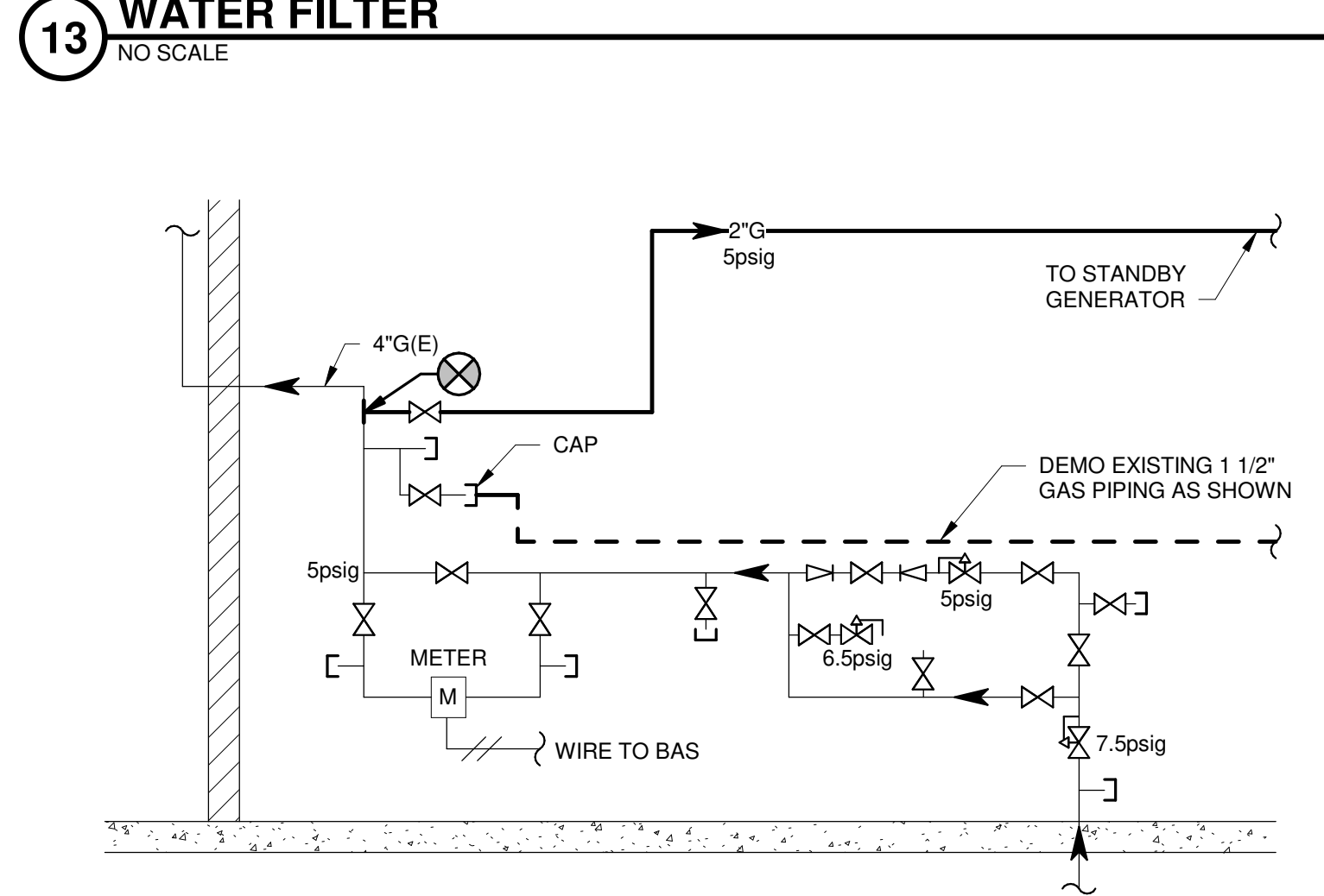
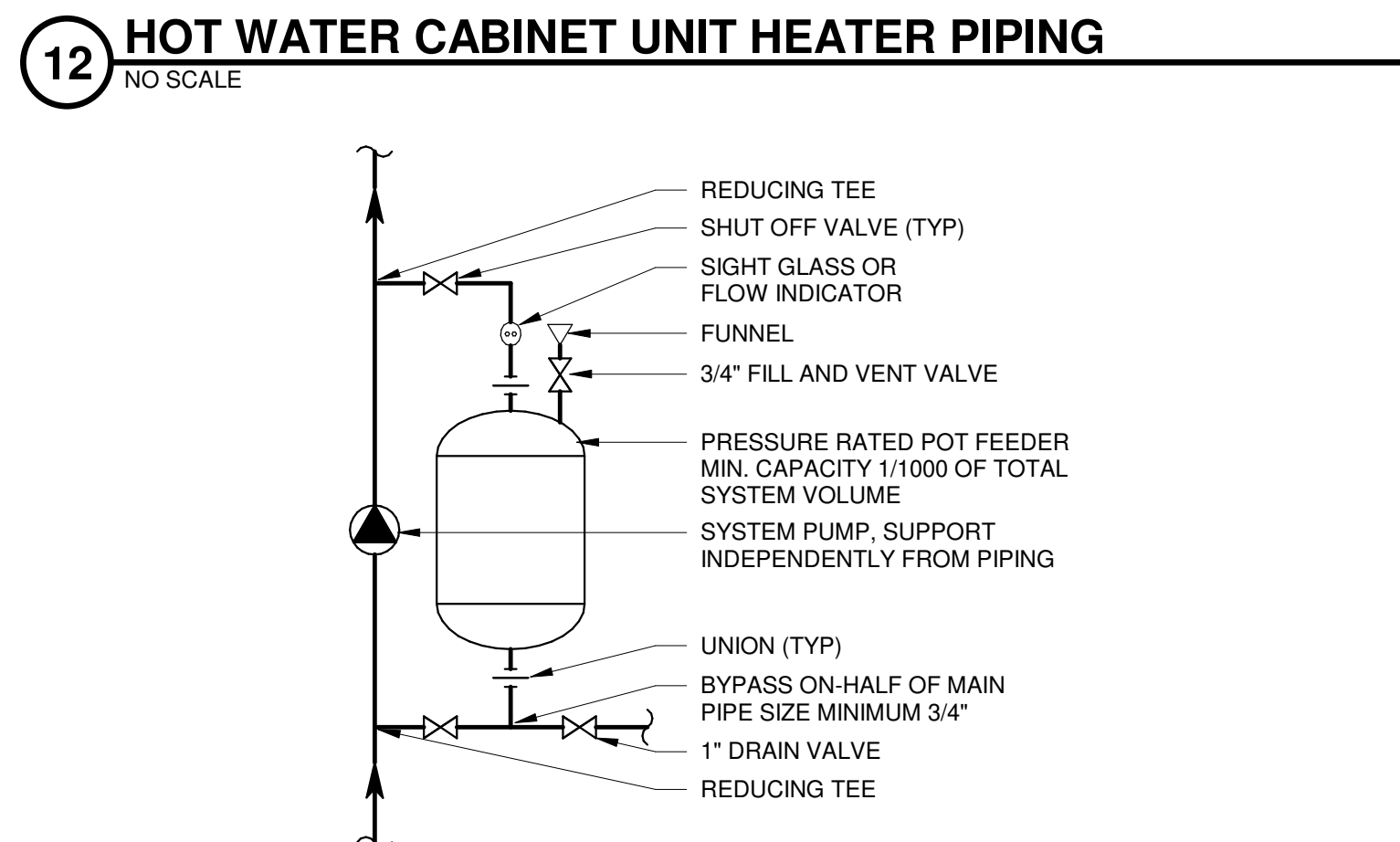
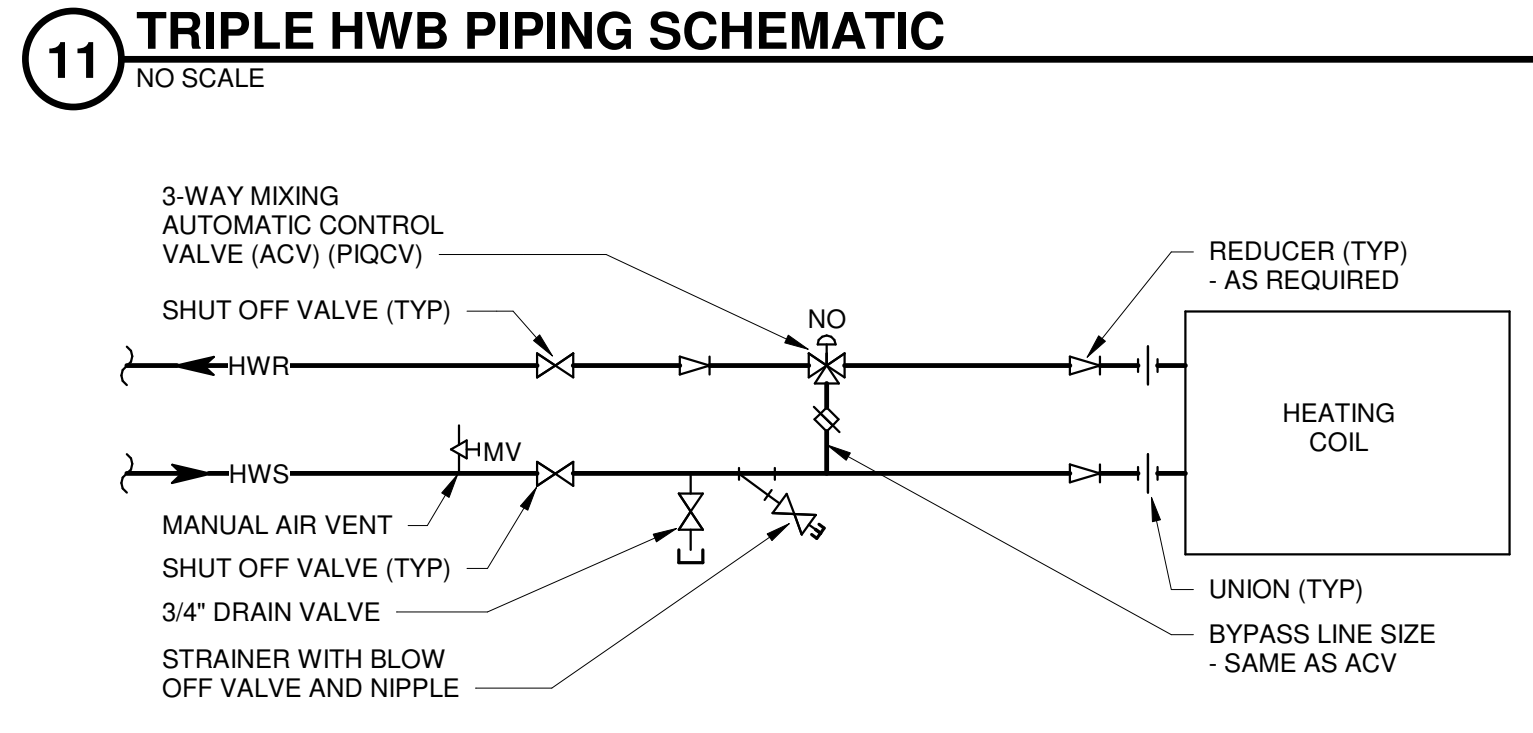
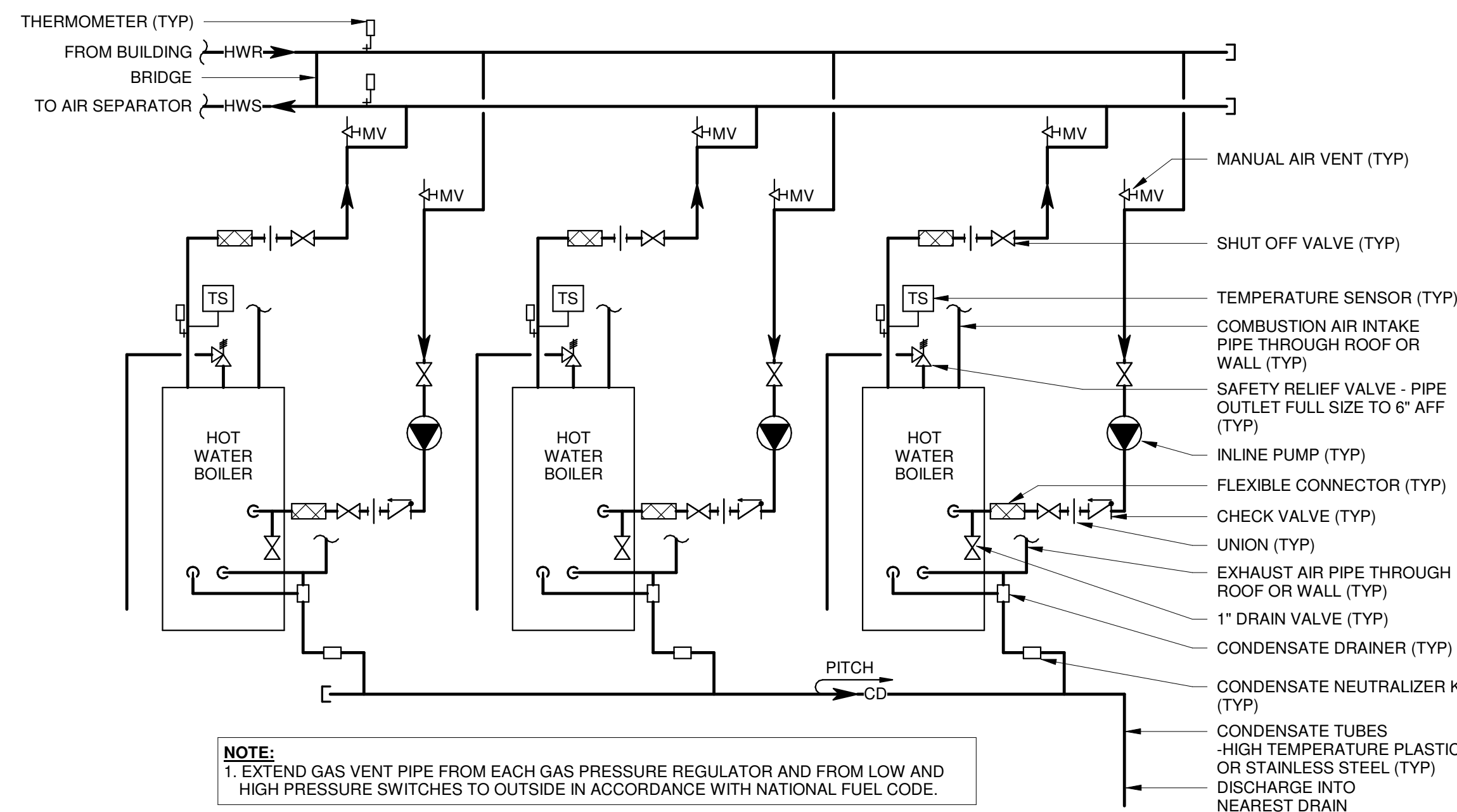


**3** **BOILER STACK ROOF PENETRATION**  
NO SCALE

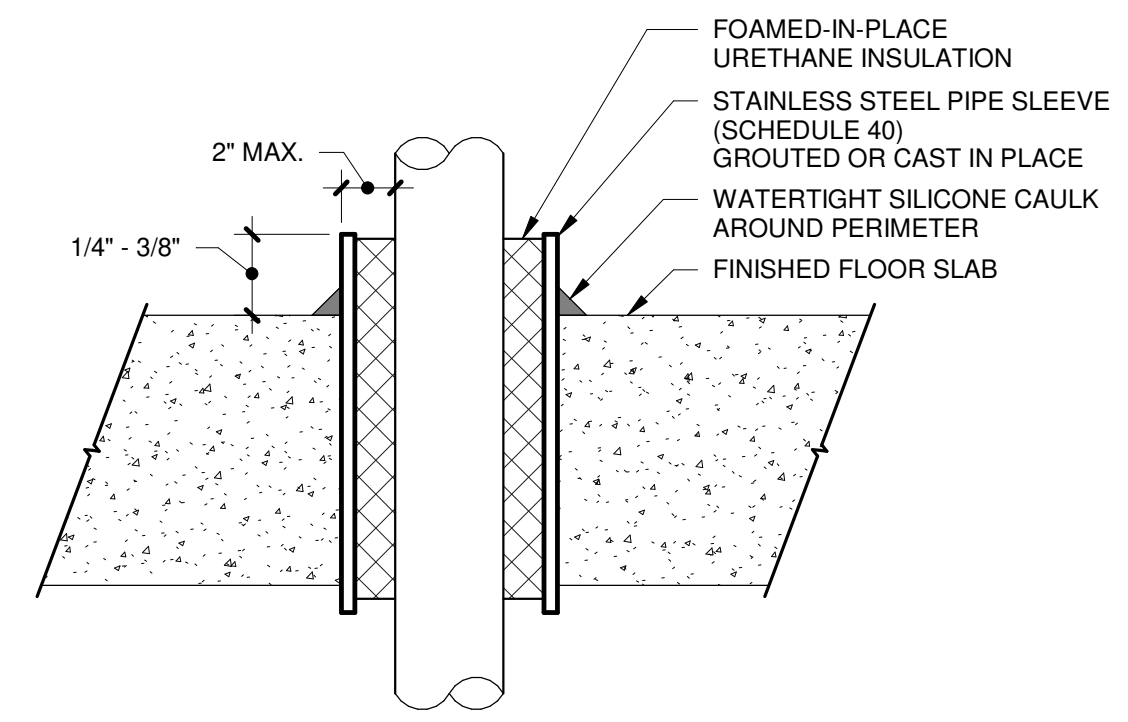


**4** **SUPPLY AIR TERMINAL UNIT WITH REHEAT COIL**  
NO SCALE

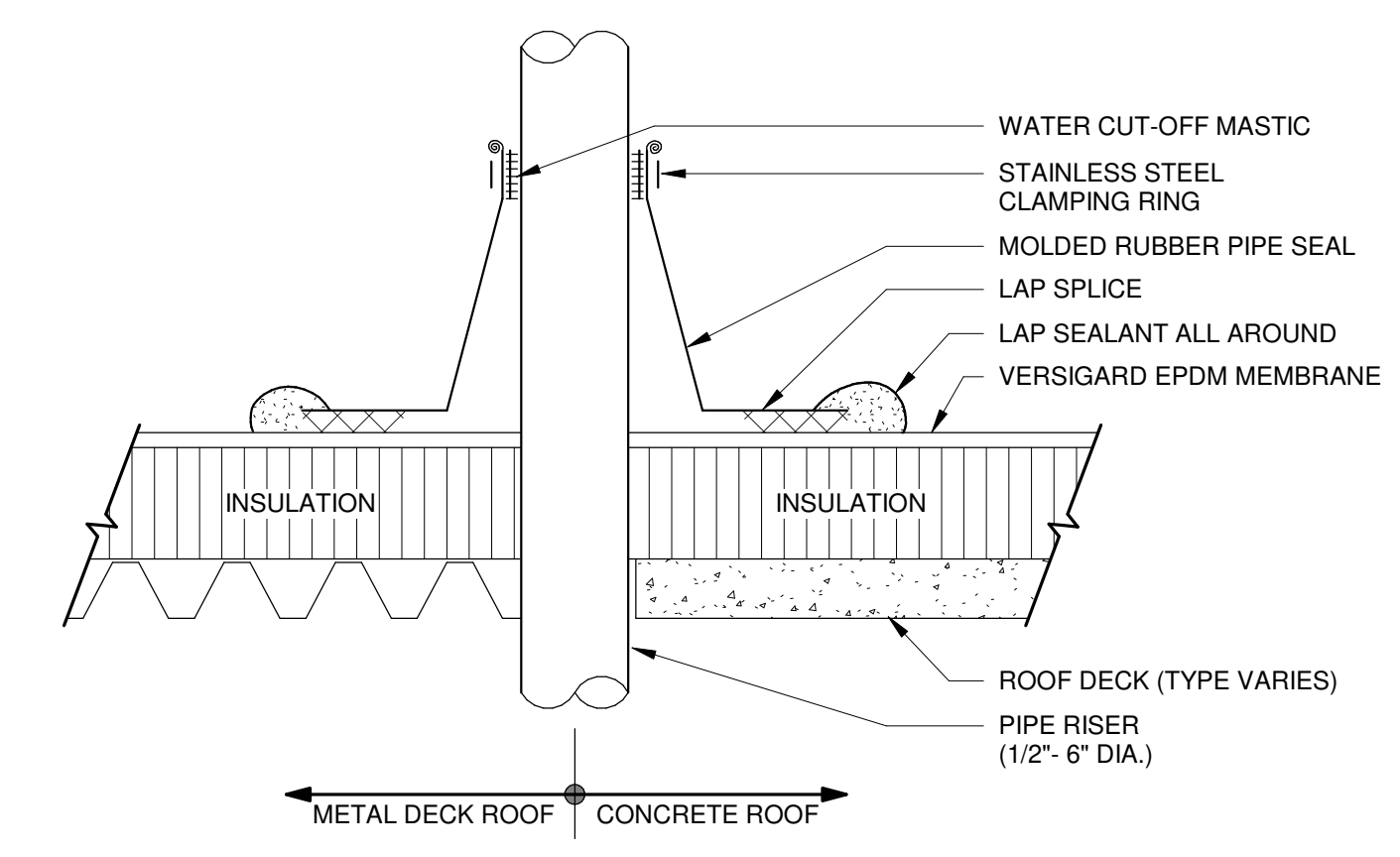




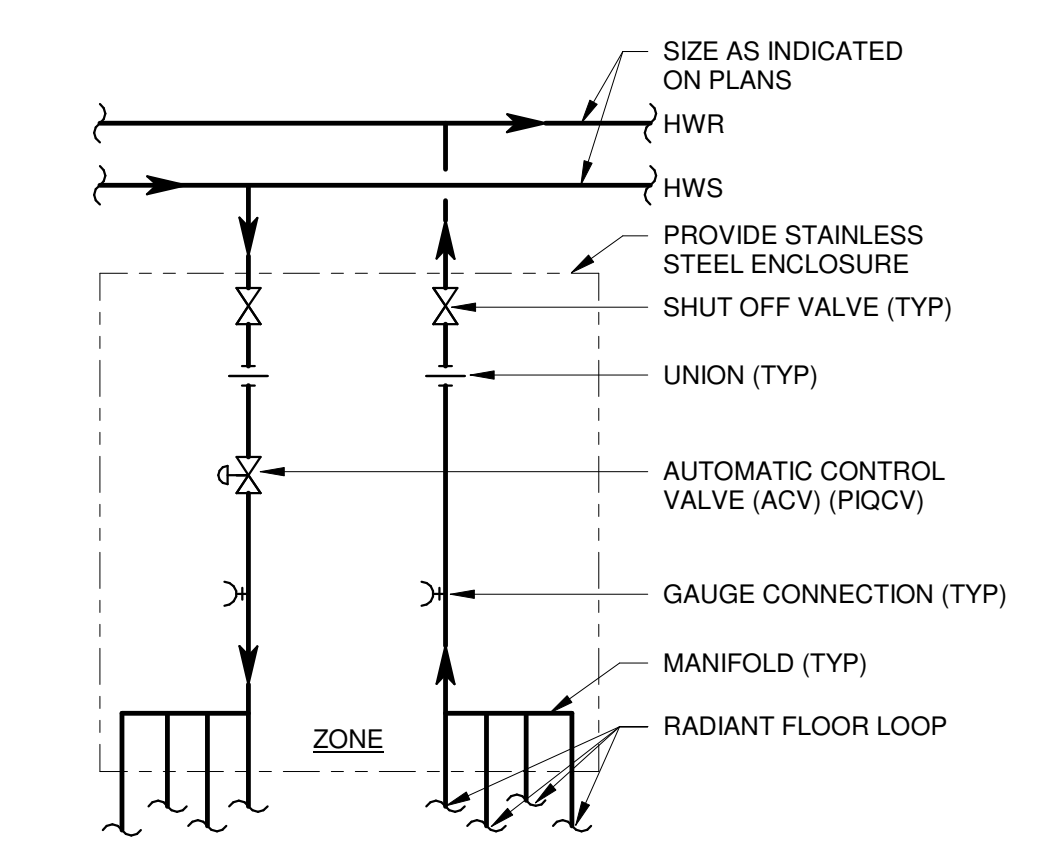
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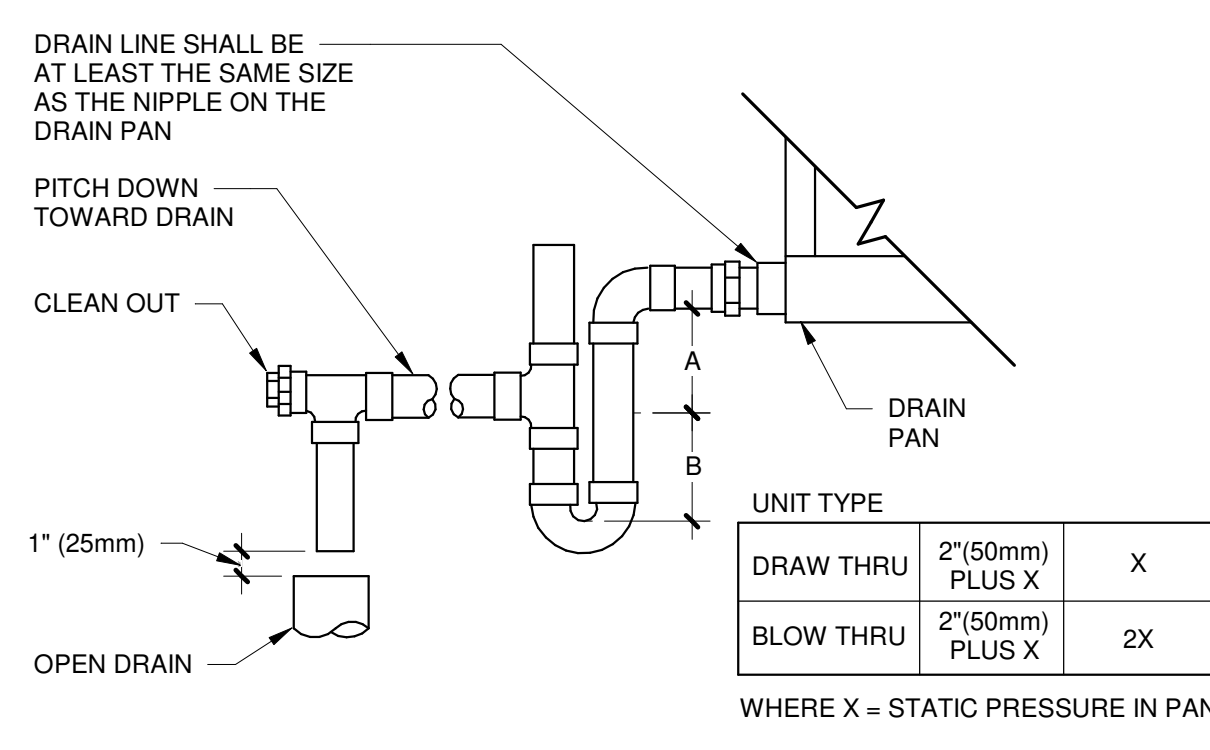
**9 PIPE SLEEVE - FLOOR**  
NO SCALE



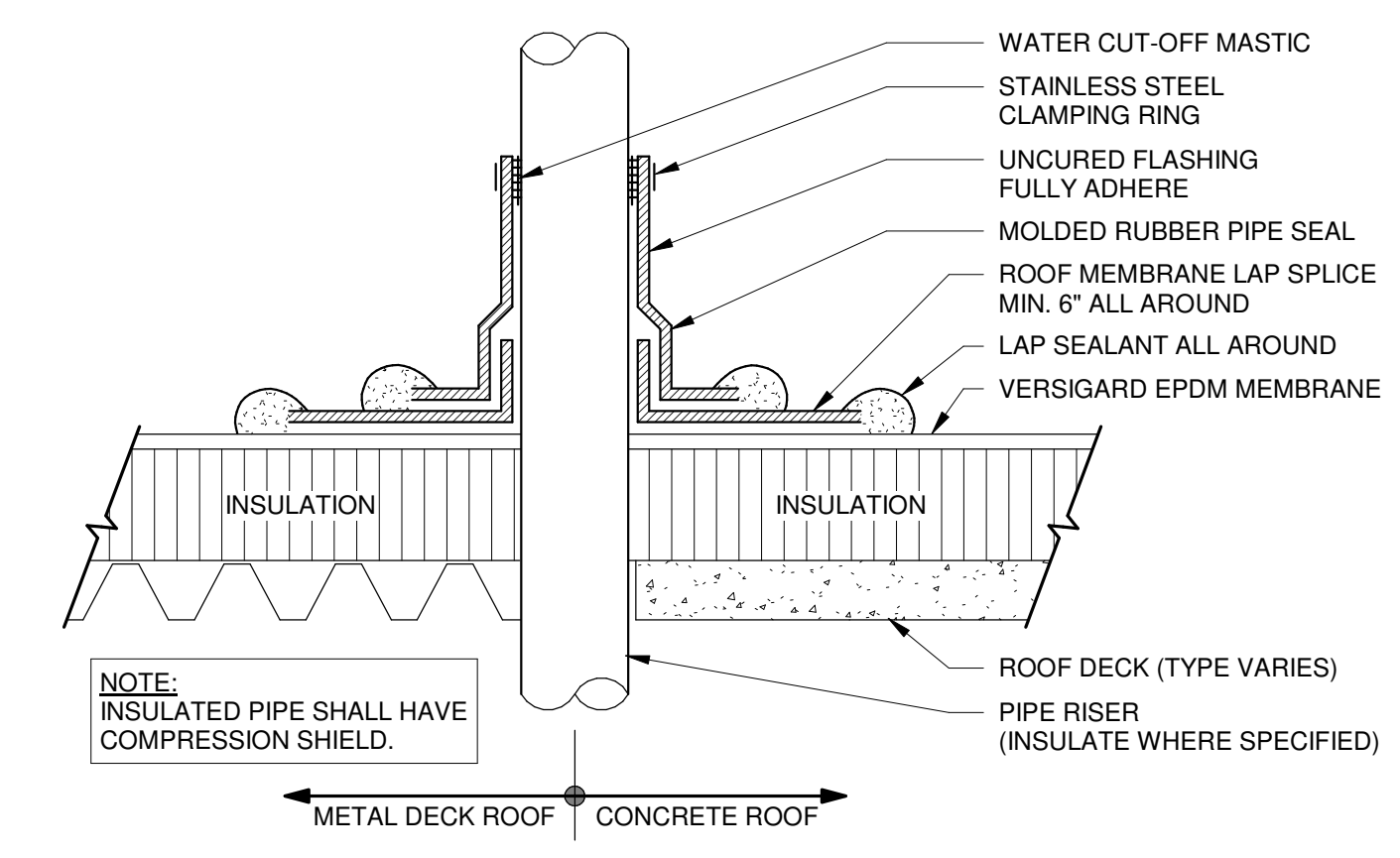
**5 ROOF PIPE PENETRATION - RUBBER SEAL**  
NO SCALE



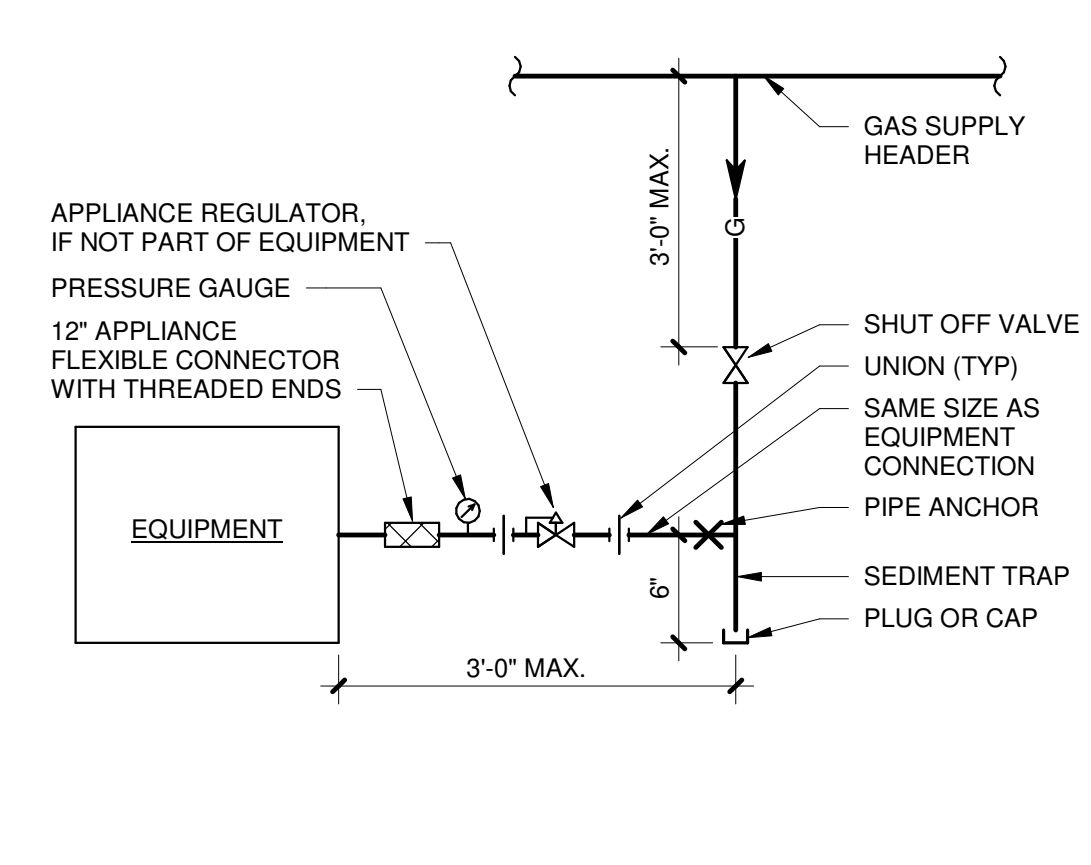
**1 RADIANT MANIFOLD**  
NO SCALE



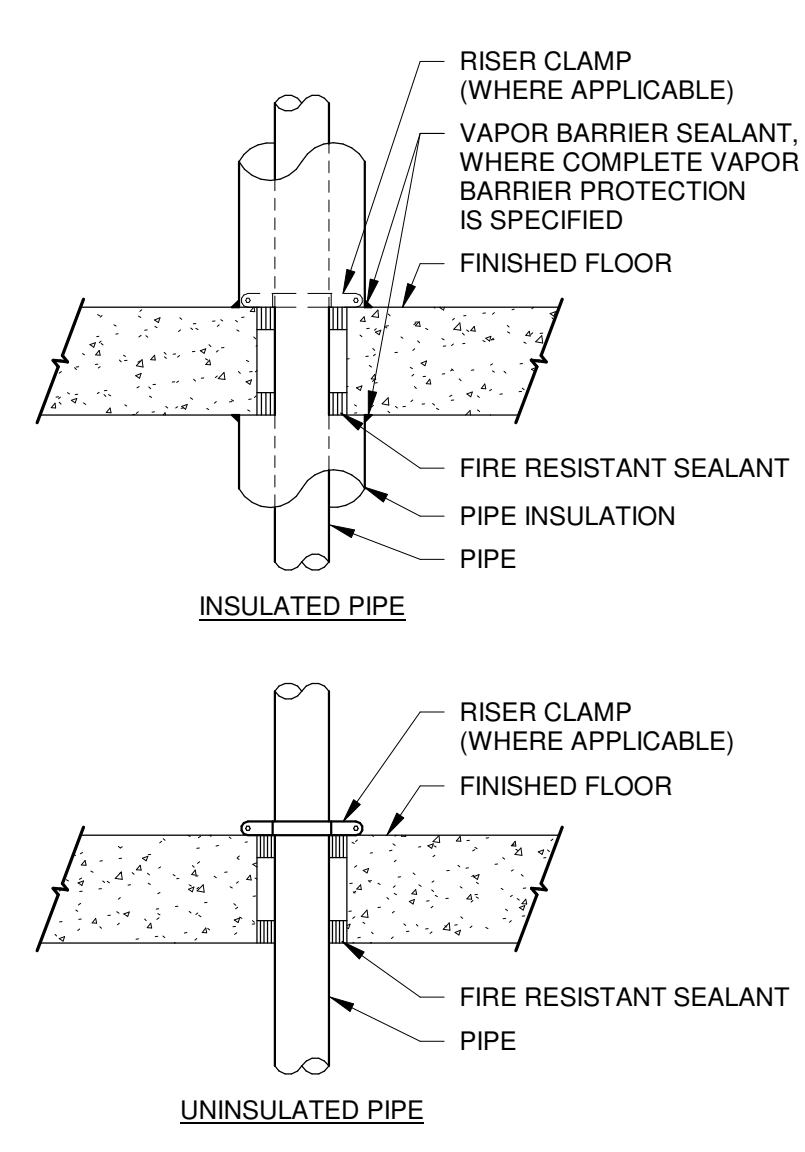
**10 CONDENSATE DRAIN TRAP**  
NO SCALE



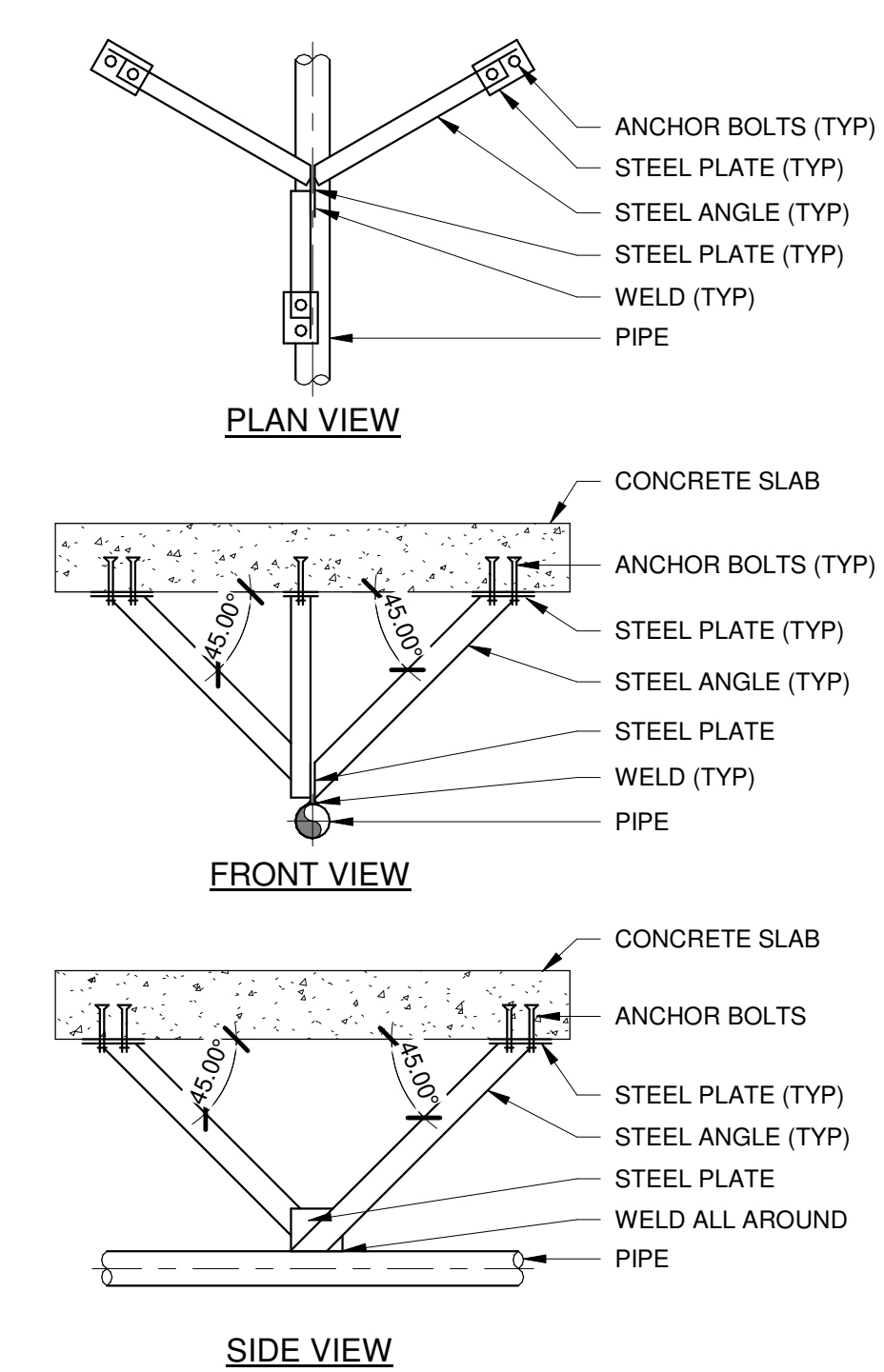
**6 ROOF PIPE PENETRATION - RUBBER SEAL (ALT)**  
NO SCALE



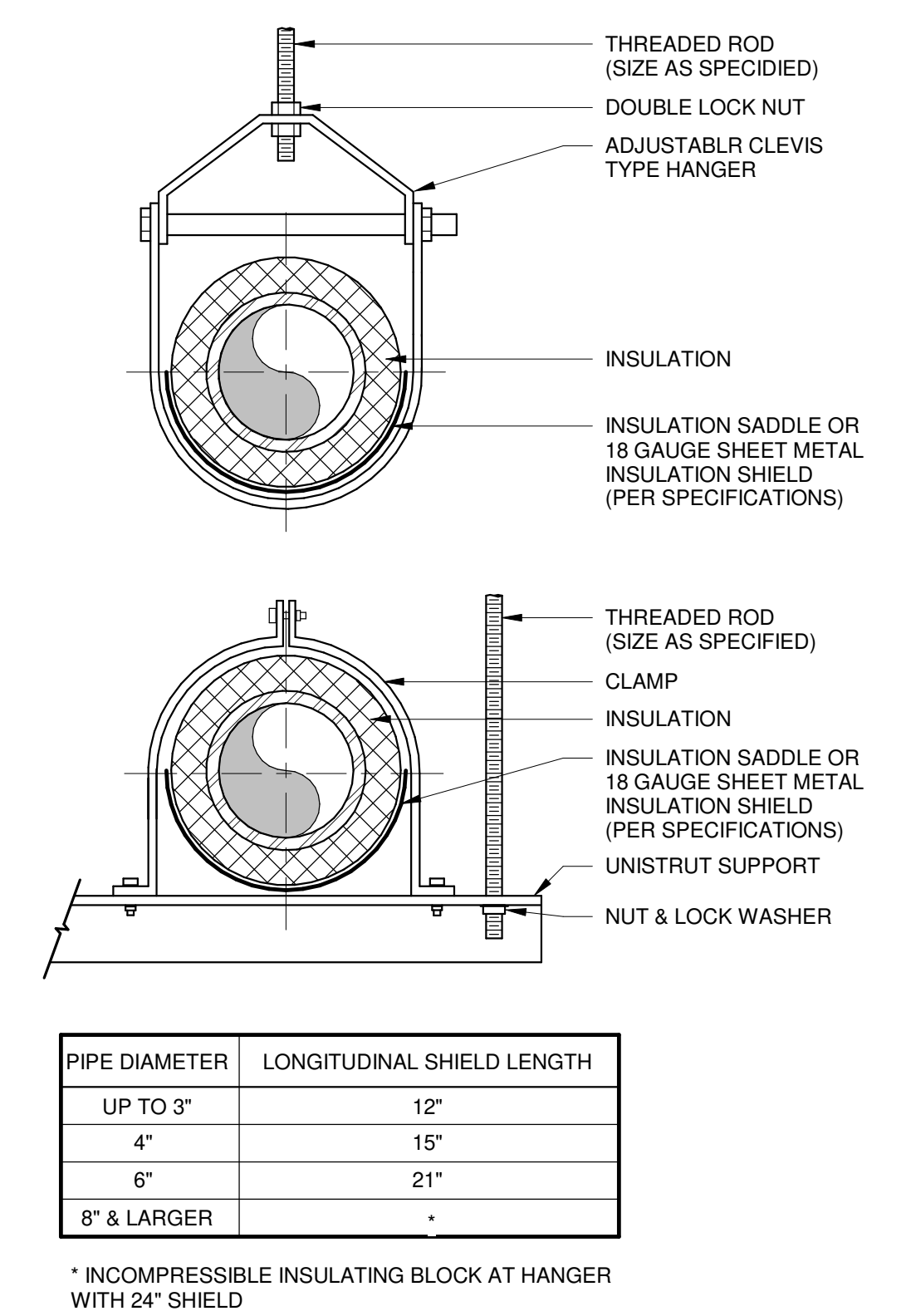
**2 EQUIPMENT GAS CONNECTION (TYP)**  
NO SCALE



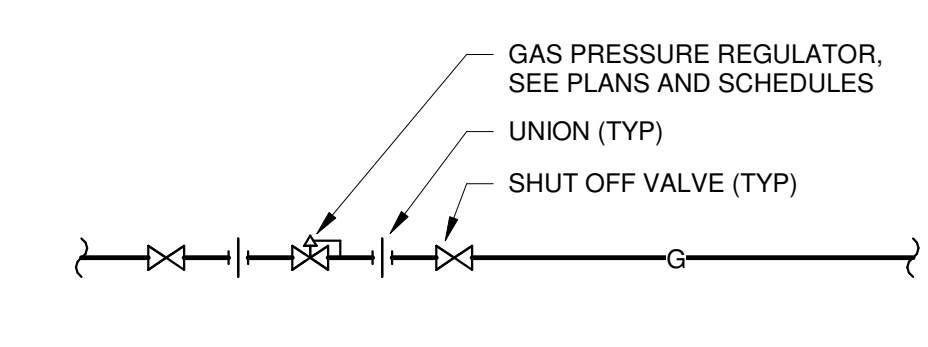
**11 FIRE RATED FLOOR PIPE PENETRATION**  
NO SCALE



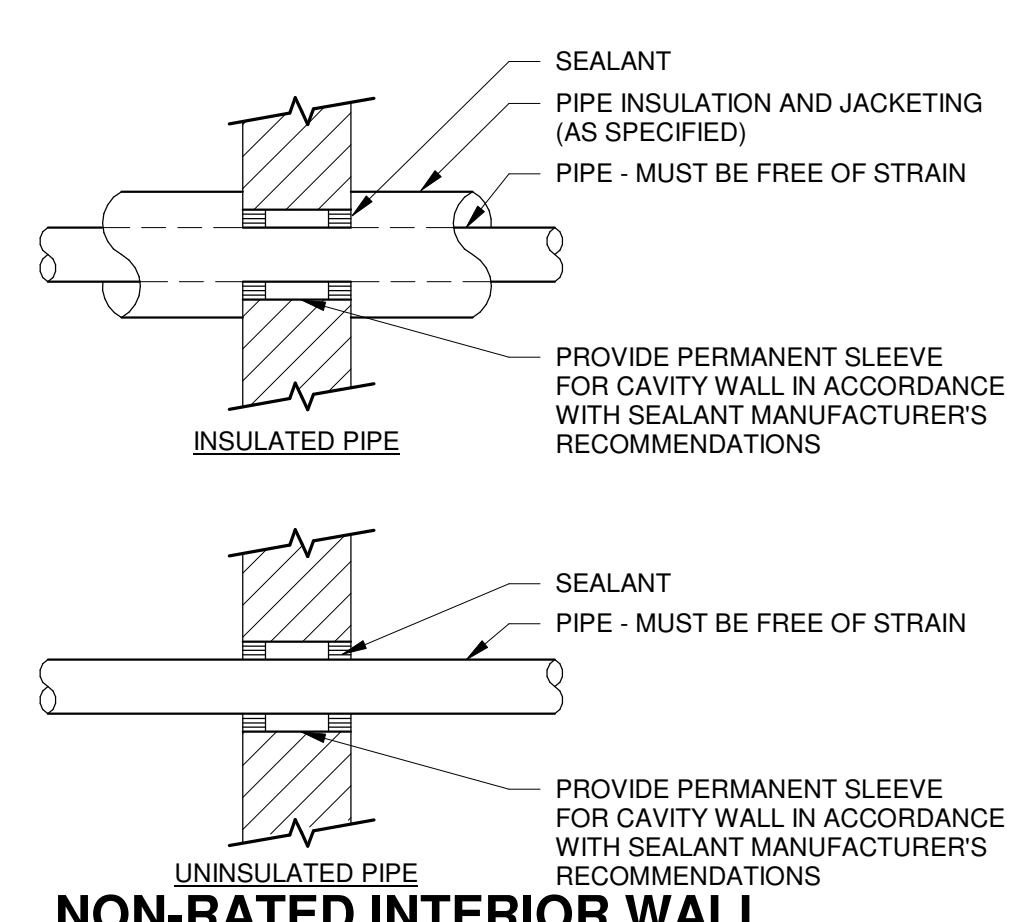
**7 PIPE ANCHOR**  
NO SCALE



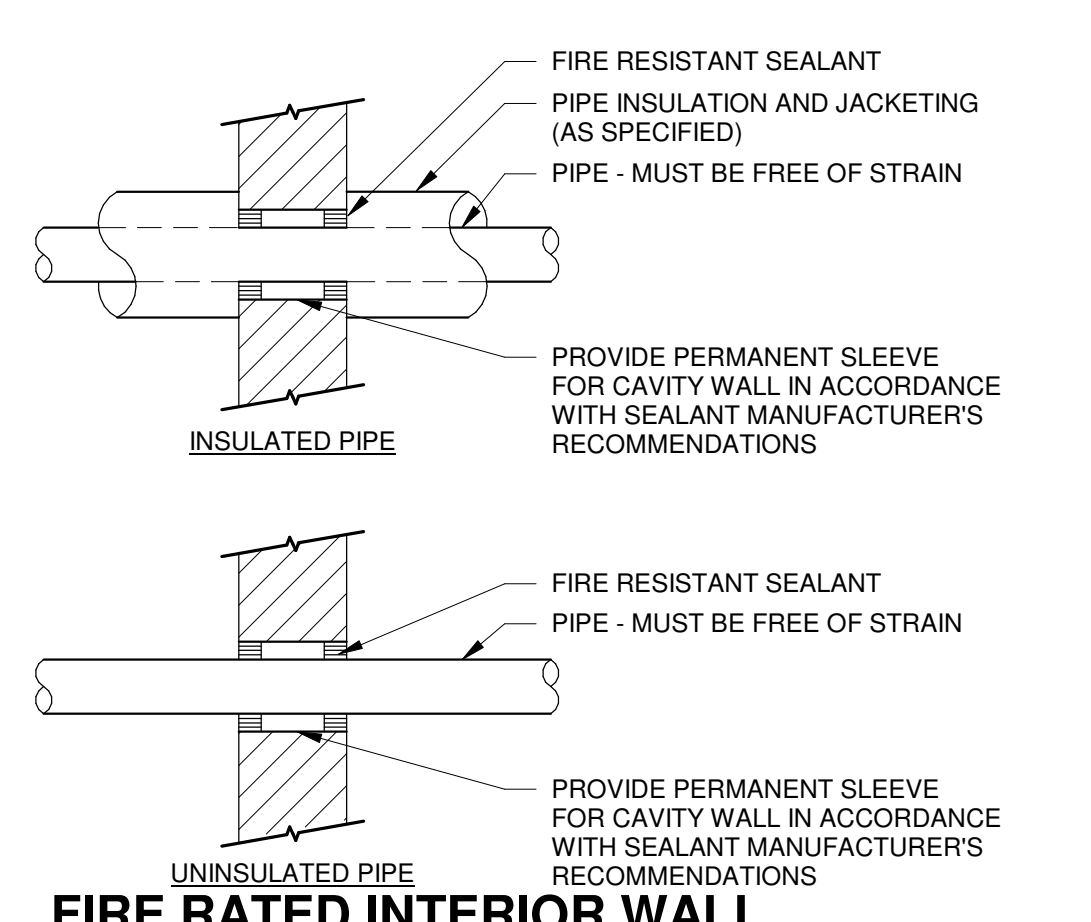
**3 INSULATED PIPE SUPPORTS**  
NO SCALE



**12 GAS PRESSURE REGULATING VALVE**  
NO SCALE



**8 NON-RATED INTERIOR WALL PIPE PENETRATION**  
NO SCALE



**4 FIRE RATED INTERIOR WALL PIPE PENETRATION**  
NO SCALE



EXISTING MAKE-UP AIR UNIT (MAU) SCHEDULE - REBALANCE

Table with columns: MARK, MANUFACTURER, MODEL NUMBER, TYPE, FIRE TYPE, AIR FLOW (CFM), SUPPLY FAN, HEATER, ELECTRICAL, INTERLOCK WITH, ACCESSORIES, MTG. HEIGHT (FT), WEIGHT (LB), LOCATION, REMARKS.

REMARKS: (1) AT HIGH SPEED. (2) SEQUENCE OF OPERATION WITH BUILDING AUTOMATION CONTROLS.

EQUIPMENT SOUND (SOUND) SCHEDULE

Table with columns: MARK, MANUFACTURER, MODEL NUMBER, SOUND POWER LEVEL (OCTAVE BAND), REMARKS.

REMARKS: (1) BASED ON CABINET SOUND RATING (2) BASED ON AHRI-260 (3) BASED ON AMCA-300

MAKE-UP AIR UNIT (MAU) SCHEDULE

Table with columns: MARK, MANUFACTURER, MODEL NUMBER, TYPE, FIRE TYPE, AIR FLOW (CFM), SUPPLY FAN (3), HEATER, ELECTRICAL, INTERLOCK WITH, ACCESSORIES, MTG. HEIGHT (FT), WEIGHT (LB), LOCATION, REMARKS.

REMARKS: (1) AT HIGH SPEED. (2) SEQUENCE OF OPERATION WITH BUILDING AUTOMATION CONTROLS. (3) PROVIDE DIRECT DRIVE MOTOR FOR FANS.

VARIABLE FREQUENCY DRIVE (VFD) SCHEDULE

Table with columns: MARK, MANUFACTURER, MODEL NUMBER, SERVES, MOTOR (HP), VOLTS / PHASE, ENCLOSURE, INTEGRAL DISCONNECT, MANUAL BYPASS, LOCATION, REMARKS.

REMARKS: (1) TEMPERATURE CONTROL CONTRACTOR TO FURNISH DANFOSS VFD DRIVES PER SECTION 230514. (2) COORDINATE WITH EC FOR INSTALLATION OF VFD DRIVES INSIDE THE INDIRECT MAU UNITS ENCLOSED CABINET. (3) COORDINATE WITH EC FOR INSTALLATION OF VFD DRIVES INSIDE THE AHU UNITS ENCLOSED CABINET. (4) COORDINATE WITH EC FOR INSTALLATION OF VFD DRIVES INSIDE THE DIRECT MAU UNITS ENCLOSED CABINET. (5) PROVIDE CABINET INTERFACE WITH BUILDING AUTOMATION SYSTEM (BAS).

EXHAUST FAN (EF) AND SUPPLY FAN (SF) SCHEDULE

Table with columns: MARK, MANUFACTURER, MODEL NUMBER, FAN TYPE, AIR FLOW RATE (CFM), ESP (IN WC), HP, TYPE, FAN SPEED (RPM), DRIVE TYPE, ELECTRICAL (VOLTS/PH), (2) MTG. HEIGHT (FT), (3) (DB), (4) (SONES), INSTALL. TYPE, INTERLOCK WITH, OPENING (IN) LENGTH, WIDTH, ACCESSORIES, WEIGHT (LB), LOCATION, REMARKS.

Table with columns: FAN TYPE (CENTRIFUGAL, AXIAL), MOTOR TYPE (ODP, TEFC, XPL, INV, TEAO, ECM), INSTALLATION TYPE (A, B, C, D), and REMARKS.

AIR FILTER (AF) SCHEDULE

Table with columns: MARK, MANUFACTURER, MODEL NUMBER, TYPE, AIR FLOW RATE (CFM), PRESSURE DROP (IN WG), FAN TSP & AIR BALANCE PD-MID-LIFE (IN WG), MIN. EFF. (%), MERV RATING, MEDIA LENGTH (IN), MIN. FACE AREA (FT2), SERVES, LOCATION, REMARKS.

REMARKS: (1) FURNISH METAL MESH FILTER IN THE OUTSIDE AIR HOOD. PROVIDE 1-INCH, WASHABLE, MULTIPLE LAYER CONSTRUCTION PANEL CONSISTING OF EXPANDED ALUMINUM.

AIR FLOW MEASURING STATION (AFMS) SCHEDULE

Table with columns: MARK, MANUFACTURER, MODEL, DIMENSION (IN), AIRFLOW RANGE (CFM), VELOCITY RANGE (FPM), (3) SENSORS (NO), MAX PRESS. DROP (IN WG), HONEYCOMB AIR STRAIGHTENER, SENSOR ACCURACY, TEMPERATURE RANGE (F), SERVICE, SERVES, REMARKS.

REMARKS: (1) DUCT MOUNTED MULTI-PROBE VELOCITY PRESSURE PIVOT AIR FLOW STATION. REFER TO SPECIFICATION SECTION 230900 - INSTRUMENTATION AND CONTROL FOR HVAC. (2) PROVIDE AN AIR FLOW STATION TO MEASURE THE OUTDOOR AIR CFM FOR EACH AIR HANDLING UNIT. (3) ALL DUCT AND OUTSIDE AIR OPENING DIMENSIONS TO BE FIELD VERIFIED TO DETERMINE SENSOR LENGTH, SPACING AND TUBE QUANTITIES.

INTAKE (IH) RELIEF (RH) HOOD SCHEDULE

Table with columns: MARK, MANUFACTURER, MODEL NUMBER, INTAKE RELIEF TYPE, HOOD TYPE, MAX. INLET VEL. (FT/MIN), CAPACITY (CFM), NECK SIZE (IN), HOOD SIZE (IN), HEIGHT (IN), HOOD W/CURB, DAMPER, SYSTEM SERVED, WEIGHT (LB), LOCATION, REMARKS.

REMARKS: (1) MOTORIZED DAMPER TO BE INSTALLED IN THE DUCTWORK. DAMPER PROVIDED BY SECTION 230900 TEMPERATURE CONTROL CONTRACTOR FOR EACH RELIEF HOOD. (2) PROVIDE 1 HP ECM MOTOR AT 115 V, 1-PHASE FOR PROPELLER RELIEF HOOD FAN. FAN RPM AT 915 FOR 10.3 FLA. MAXIMUM OF 11.0 SONES. FAN AIRFLOW SELECTED AT TSP 0.25 IN.WG.

AIR TERMINAL (AT) SCHEDULE

Table with columns: MARK, MANUFACTURER, MODEL NUMBER, TYPE, AIR FLOW (CFM), (1) MAX. PD (IN. WG), (2) HOT WATER REHEAT COIL (CAP., EAT, LAT, EVT, LWT, FLOW, PD, NO. OF ROWS), INLET SIZE, OUTLET, (4) MTG. HEIGHT (FT), WEIGHT (LB), ACCESSORIES, LOCATION, REMARKS.

REMARKS: (1) MAXIMUM STATIC PRESSURE DROP BASED ON MAXIMUM RATED AIR FLOW. (2) HEATING CAPACITY OF REHEAT COIL BASED ON MINIMUM RATED AIR FLOW, UNLESS OTHERWISE NOTED. (3) INTERLOCK AT-5 WITH EXHAUST FANS EF-19(E) AND 30(E) WITH BAS SYSTEM. EXHAUST FAN EF-19(E) SHALL BE INTERLOCK GAS DETECTION AND MAU-8(E). (4) MOUNTING HEIGHT IS TO BOTTOM OF THE AIR TERMINAL.





EXISTING EXHAUST FAN (EF) SCHEDULE - REBALANCE. Table with columns: MARK, MANUFACTURER, MODEL NUMBER, FAN TYPE, AIR FLOW RATE (CFM), ESP (IN WC), MOTOR (HP, BHP, TYPE), FAN SPEED (RPM), DRIVE TYPE, ELECTRICAL (VOLTS/PH), (2) MTG. HEIGHT (FT), (3) (DB), (4) SONES, (1) INTERLOCK WITH, (1) OPENING (IN) LENGTH, WIDTH, ACCESSORIES, WEIGHT (LB), LOCATION, REMARKS.

HVAC DUCT SCHEDULE. Table with columns: SYSTEM, DUCT MATERIAL (TYPE, REFERENCE STANDARD, FINISH, PRESS. CLASS (IN WC), SEAL CLASS), LEAKAGE CLASS (RECT., ROUND), COMMENTS.

EXISTING AIR TERMINAL (AT) SCHEDULE - REBALANCE. Table with columns: MARK, MANUFACTURER, MODEL NUMBER, TYPE, AIR FLOW (CFM) MAX, MIN, (1) MAX. PD (IN. WC), INLET SIZE (IN), WIDTH (IN), DEPTH (IN), QTY., INTERLOCK, WEIGHT (LB), ACCESSORIES, LOCATION, REMARKS.

REMARKS: (1) MAXIMUM STATIC PRESSURE DROP BASED ON MAXIMUM RATED AIR FLOW. (2) CONSTANT VOLUME AIR TERMINAL. (3) VARIABLE VOLUME AIR TERMINAL. (4) INTERLOCK AT-1 WITH EXHAUST FANS FEF-6, FEF-7, AND EF-35 WITH LOCAL SWITCHES. EXHAUST FAN EF-35 SHALL BE INTERLOCK GAS DETECTION AND MAU-8(E).

FAN FILTER UNITS (FFU) SCHEDULE. Table with columns: MARK, MANUFACTURER, MODEL NUMBER, AIR FLOW (CFM), ESP (IN WC), MOTOR (HP), ELECTRICAL (VOLTS/PH), MEDIA LENGTH (IN), MERV RATING, PRESS DROP. ("WG) INITIAL, FINAL, MEDIA LENGTH (IN), MERV RATING, PRESS DROP. ("WG) INITIAL, FINAL, MEDIA LENGTH (IN), MERV RATING, PRESS DROP. ("WG) INITIAL, FINAL, (2) MTG. HEIGHT (FT), WEIGHT (LB), LOCATION, REMARKS.

REMARKS: (1) SEE SEQUENCE OF OPERATION SPECIFICATION SECTION 23 09 93. (2) MOUNTING HEIGHT IS FROM FINISHED FLOOR LEVEL TO BOTTOM OF UNIT. (3) PROVIDE WITH TIMER CONTROLLER IN THE NEMA 4 ENCLOSURE.

FUME EXTRACTOR (FE) SCHEDULE. Table with columns: MARK, MANUFACTURER, MODEL NUMBER, HOSE DIA (IN), APPROX. AIR FLOW (CFM), WORKING RADIUS (FT), RAIL - ARM LENGTHS (IN) A, B, C, MTG. TYPE, MTG. HEIGHT (FT), ELECTRICAL (VOLTS/PH), MOTOR (HP), MOTOR TYPE, ACCESSORIES, WEIGHT (LB), LOCATION, REMARKS.

REMARKS: (1) ALU 150 RAIL WITH SPRING EXHAUST HOSE REEL. PROVIDE QUANTITY OF THREE HOSE REEL TROLLEYS FOR EACH FUME EXTRACTOR TRACK SYSTEM. (2) REEL HOSE TEMPERATURE RATED UP TO 800 DEG F. (3) PROVIDE (3) PORTABLE GILLIG ADAPTER CARTS PER SECTION 23 34 00. REFER TO SECTION 23 34 00 FOR ADDITIONAL ACCESSORIES.



DUCTLESS SPLIT SYSTEM (ACU) SCHEDULE table with columns for MARK, MANUFACTURER, MODEL NUMBER, UNIT TYPE, AIR FLOW (CFM), AMBIENT TEMP. (°F), COOLING, HEATING, ELECTRICAL, and UNIT DIMENSIONS (IN).

REMARKS: (1) SINGLE POINT ELECTRICAL CONNECTION AT OUTDOOR UNIT.

GAS PRESSURE REDUCING VALVE (GPR) SCHEDULE table with columns for MARK, MANUFACTURER, MODEL NUMBER, MEDIA TYPE, SIZE (IN), PRESSURE (PSI), CAPACITY (CFH), LOCATION, and REMARKS.

REMARKS: (1) PROVIDE VENTLESS LIMITING DEVICE FOR ALL GPR WITH OPD. (2) STANDARD GAS PRESSURE REDUCING VALVE WITH OPD.

HOT WATER BOILER (HWB) SCHEDULE table with columns for MARK, MANUFACTURER, MODEL NUMBER, TYPE, INPUT (MBH), OUTPUT (MBH), FLUID FLOW (GPM), FLUID TEMP. (°F), ELECTRICAL, and WEIGHT (LB).

REMARKS: (1) MINIMUM EFFICIENCY AT MAXIMUM OUTPUT AND DESIGN FLOW AND TEMPERATURES PER AHRI CONDITIONS. (2) FLUID TEMPERATURES AND PRESSURE DROP AT DESIGN FLOW RATE. (3) PROVIDE OUTDOOR AIR TEMPERATURE SUPPLY WATER RESET CONTROLLER. (4) PROVIDE SCHEDULE 40 CPVC INTAKE PIPING AND TYPE 29-4C STAINLESS STEEL VENT PIPING. REFER TO SPECIFICATION SECTION 23 51 00. (5) PROVIDE ALL REQUIRED STORM COLLARS AND ROOF FLASHING. (6) BOILERS ARE SIZED TO 120% OF SYSTEM DESIGN CAPACITIES OR THREE BOILERS AT 40% OF THE SPACE LOAD.

WATER FILTER (WF) SCHEDULE table with columns for MARK, MANUFACTURER, MODEL NUMBER, TYPE, SERVICE, FLOW RATE (GPM), MAX. PD (FT), FILTRATION RATING (MICRO (UM)), CONNECTION SIZE (IN), TYPE, LOCATION, and REMARKS.

REMARKS: (1) REFER TO SPECIFICATION 23 25 00 FOR FILTRATION RATING.

HYDRONIC PUMP (P) SCHEDULE table with columns for MARK, MANUFACTURER, MODEL NUMBER, TYPE, SYSTEM SERVED, MEDIA, FLOW RATE (GPM), TDH (FT), MOTOR, FLUID TEMP. (°F), SIZE (IN), NPSHA (FT), MTG. HEIGHT (IN), WEIGHT (LB), LOCATION, and REMARKS.

REMARKS: (1) PROVIDE WITH VFD RATED MOTORS. (2) PROVIDE WITH MOUNTING HARDWARE. (3) PROVIDE WITH FULL VOLTAGE CONTACTOR AND MOTOR OVERLOAD PROTECTION. (4) SEE ELECTRICAL PLANS FOR COMBINATION MOTOR STARTER.

FLOW METER (WFM) SCHEDULE table with columns for MARK, MANUFACTURER, MODEL NUMBER, SIZE (IN), METER SIZE (IN), FLUID TYPE, DESIGN PRESS. (PSI), FLUID TEMP. (°F), DESIGN FLUID FLOW RATE, FLUID SPECIFIC GRAVITY, LOCATION, and REMARKS.

REMARKS: (1) PROVIDE INSERTION BI-DIRECTIONAL FLOW METER WITH INSTALLATION KIT. (2) INSTALL FLOW METER IN STRAIGHT RUN WITH MINIMUM 10 DIAMETERS UPSTREAM AND 5 DIAMETERS DOWNSTREAM OF THE METER.

EXISTING HYDRONIC PUMP (P) SCHEDULE - REBALANCE table with columns for MARK, MANUFACTURER, MODEL NUMBER, TYPE, SYSTEM SERVED, MEDIA, FLOW RATE (GPM), TDH (FT), MOTOR, FLUID TEMP. (°F), SIZE (IN), NPSHA (FT), SUCTION DIFFUSER (IN), WEIGHT (LB), LOCATION, and REMARKS.

REMARKS: (1) VFD RATED MOTORS.

EXPANSION TANK (ET) SCHEDULE table with columns for MARK, MANUFACTURER, MODEL NUMBER, SYSTEM, TANK VOL. (GAL), MIN. ACCEPTANCE VOL. (GAL) (MAX.), DIMENSIONS (IN), AIR CHARGE PRESS. (PSI), WEIGHT (LB), LOCATION, and REMARKS.

REMARKS: (1) FACTORY PRE-CHARGE EXPANSION TANK SHALL BE SET TO 15 PSIG, ADJUSTABLE IN THE FIELD.

CONVECTOR (C) SCHEDULE table with columns for MARK, MANUFACTURER, MODEL NUMBER, TOTAL CAP (MBH), EAT (°F), MEDIA TYPE, EWT (°F), LWT (°F), MEDIA FLOW RATE, CABINET SIZE (IN), TOP STYLE, MTG. HEIGHT (IN), (1) MTG. HEIGHT (IN), FINISH, LOCATION, and REMARKS.

REMARKS: (1) MOUNTING HEIGHT IS TO BOTTOM OF CONVECTOR CABINET. (2) SUBMIT MANUFACTURER'S STANDARD COLOR CHART TO ARCHITECT FOR COLOR SELECTION.

RADIANT FLOOR HEATING ZONE (RZ) SCHEDULE table with columns for MARK, ZONE TUBE SIZE (IN), TUBE DISTANCE ON CENTER (IN), WATER TEMP DROP (°F), TOTAL ZONE AREA (FT²), UNIT HEATING LOAD (BTUH/SF), TOTAL ZONE LOAD (MBH), MAXIMUM LOOP LENGTH (FT), NUMBER OF LOOPS/PER LOOP (GPM), TOTAL ZONE FLOW (GPM), TOTAL LOOP HEAD PRESSURE (FT H2O), ASSOCIATED PUMP, LOCATION, and REMARKS.

REMARKS: (1) MAXIMUM FLOOR TEMPERATURE SHALL BE 100 DEG F. (2) RADIANT ZONE WILL BE SUPPLIED FROM MAIN SUPPLY/RETURN LOOP UTILIZING INDIVIDUAL CONTROL VALVE.

DIRT & AIR SEPARATOR (AS) SCHEDULE table with columns for MARK, MANUFACTURER, MODEL NUMBER, TYPE, FLOW RATE (GPM), FLOW RATE MAX. OR NOM., MAX. PD (FT), PIPE CONNECTION SIZE (IN), PIPE CONNECTION THD. or FLG., SYSTEM, WEIGHT (LB), LOCATION, and REMARKS.

REMARKS: (1) REQUIRES INTEGRAL STRAINER.





CITY OF MADISON METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS 1101 EAST WASHINGTON AVE. MADISON, WI 53703

ISSUED 04/08/21 BID SET

CONTRACT NO.: 8981 MW NO.: 4503500-1908096.03 DATE: APRIL 8, 2021 DESIGNED BY: DJG DRAWN BY: RRW CHECKED BY: SNW 50 NOT SCALE DRAWINGS SHEET CONTENTS PIPING SCHEDULES

SHEET NO.:

MECHANICAL PIPING & VALVE SCHEDULE. Table with columns for SYSTEM MARK, SERVICE, ROOM TYPE, PIPING SIZE, MATERIAL, WALL THICKNESS, ASME PIPING, PRESS. CLASS, FITTING TYPE, JOINT TYPE, VALVE, CHECK VALVES, PRESS. CLASS, CONNECTION TYPE, BODY MATERIAL, TRIM MATERIAL, VALVE EQUAL TO, MANUFACTURER, MODEL, REMARKS. Includes material types, joint types, fitting types, and piping system joining materials.

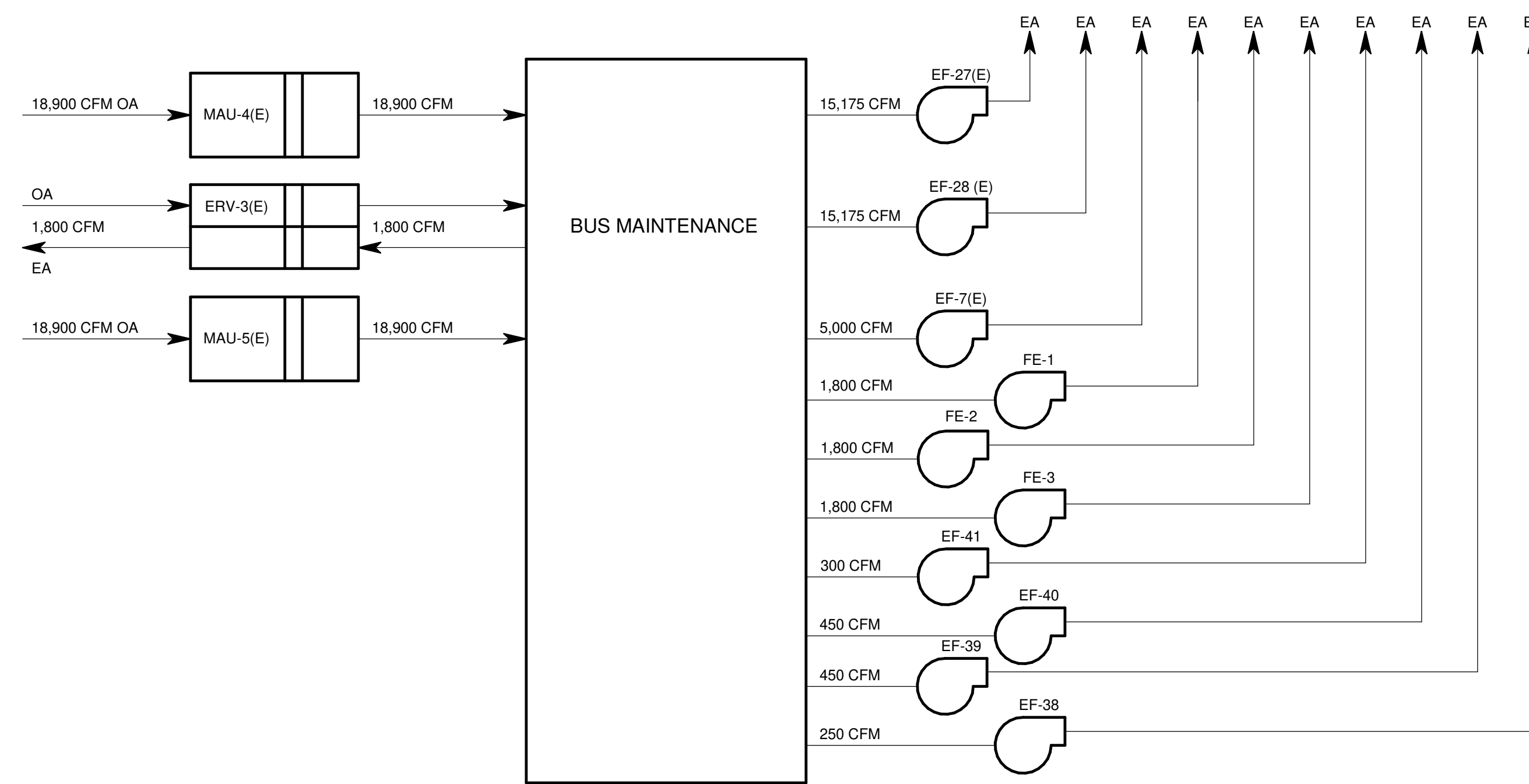
UNIT HEATER (UH) SCHEDULE. Table with columns for MARK, MANUFACTURER, MODEL NUMBER, TYPE, CAPACITY (MBH), AIR FLOW (CFM), AIR FLOW (HOR. or VER.), AIR THROW (FT), MOTOR (HP), ELECTRICAL (VOLTS/PH), EAT (°F), LAT (°F), FLOW (GPM), PD (FT), EWT (°F), LWT (°F), FUEL TYPE, INPUT (MBH), OUTPUT (MBH), VENT TYPE, ACCESSORIES, (1) MTG. HEIGHT (FT), WEIGHT (LB), LOCATION, REMARKS.

CABINET UNIT HEATER (CUH) SCHEDULE. Table with columns for MARK, MANUFACTURER, MODEL NUMBER, AIR FLOW (CFM), EAT (°F), LAT (°F), MEDIA TYPE, CAPACITY (MBH), HEATING FLOW RATE (GPM), EWT (°F), LWT (°F), ELECTRICAL (VOLTS/PH), FAN MOTOR (HP, RPM), CABINET SIZE (IN), (1) MOUNTING HEIGHT (IN), ORIENT., TYPE, INLET LOCATION, OUTLET LOCATION, LOCATION, REMARKS.

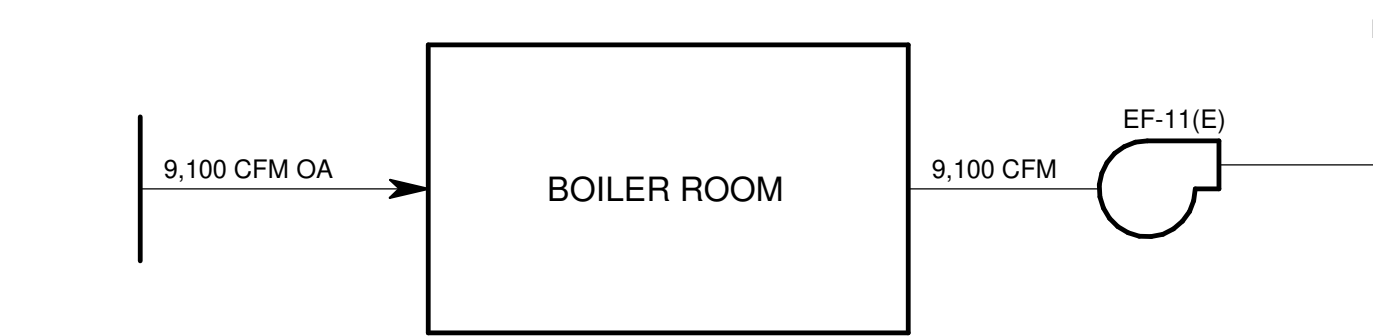
AIR COOLED CONDENSING UNIT (ACCU) SCHEDULE. Table with columns for MARK, MANUFACTURER, MODEL NUMBER, NOM. CAP. (TON), MIN. EER, MIN. SEER, REF. TYPE, SST (°F), HOT GAS BYPASS, NO. OF STAGES, AMB. AIR TEMP. (°F), COMPRESSORS, ELECTRICAL, (2) MAX. SOUND (DB), MATCHING EQUIPMENT COOLING COIL, WEIGHT (LB), LOCATION, REMARKS.

FINNED TUBE CONVECTOR (FTC) SCHEDULE. Table with columns for MARK, MANUFACTURER, MODEL NUMBER, TOTAL CAP. (BTU/FT), EAT (°F), MEDIA TYPE, EWT (°F), LWT (°F), MEDIA FLOW RATE (GPM), MAX. PD (FT), (2) ELEMENT SIZE (IN), NO. OF ROWS, LENGTH (IN), CABINET SIZE (IN), MTG. TYPE, (1) MTG. HEIGHT (IN), LOCATION, REMARKS.

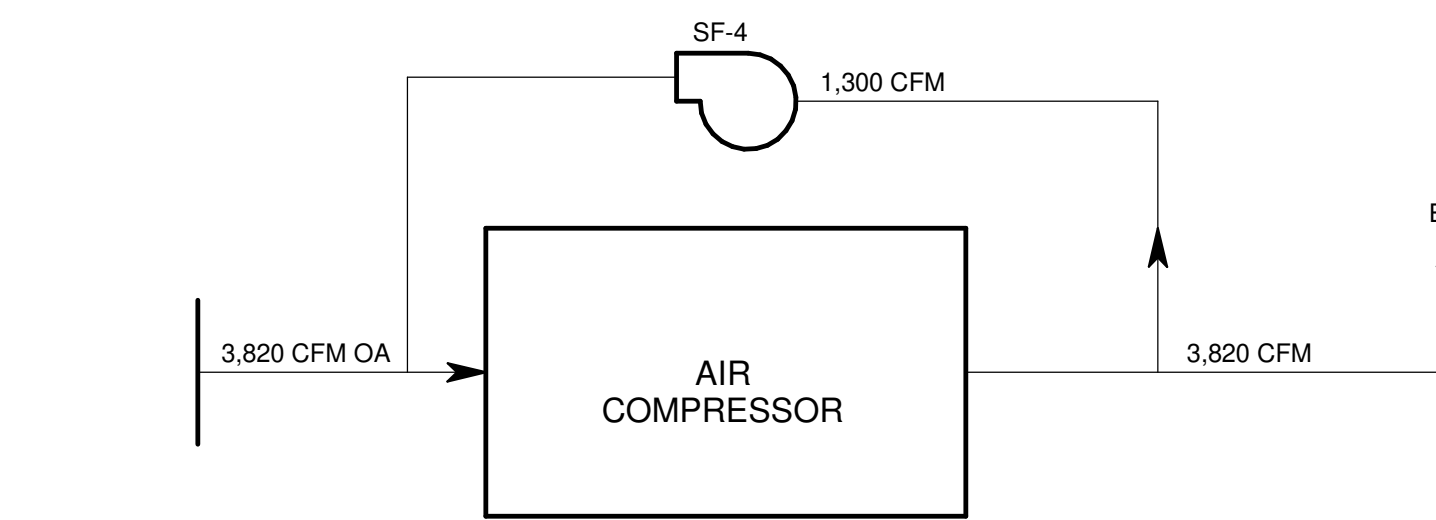
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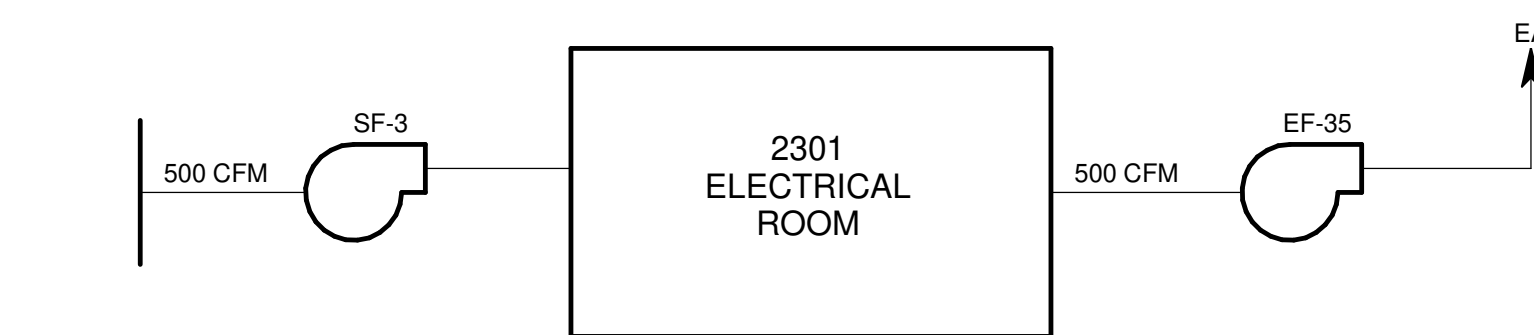
**5 BUS MAINTENANCE AIRFLOW DIAGRAM**  
NO SCALE



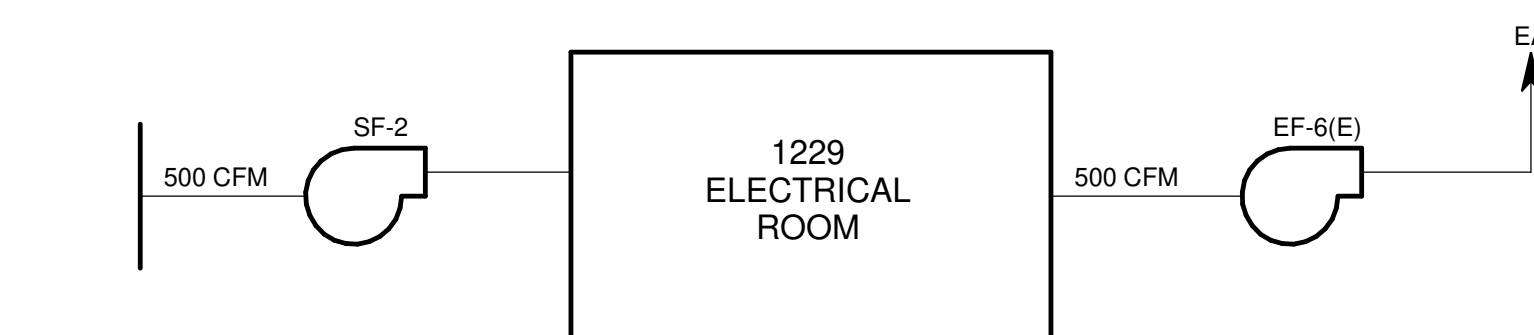
**6 BOILER ROOM VENTILATION AIRFLOW DIAGRAM**  
NO SCALE



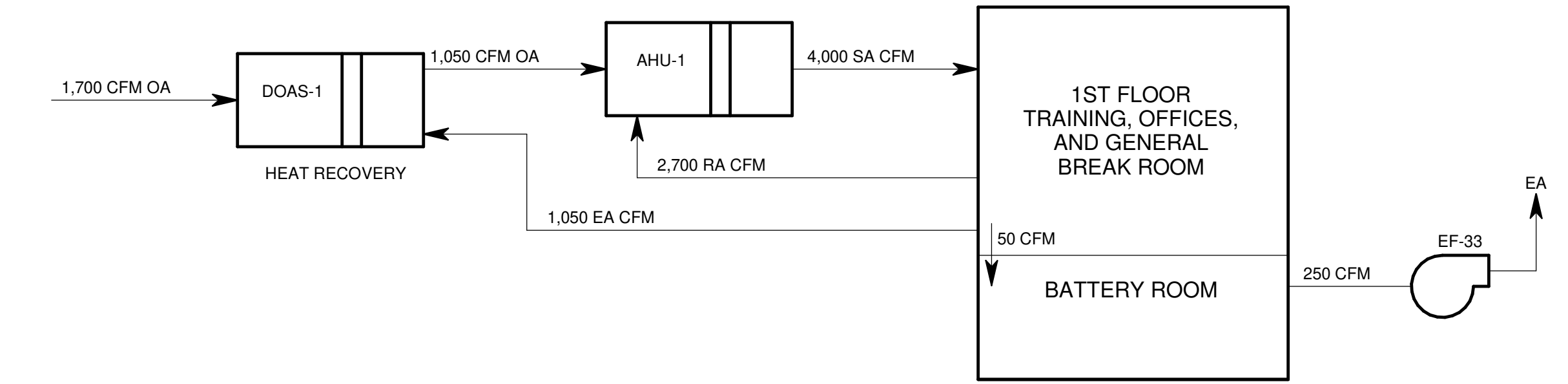
**7 2305 AIR COMPRESSOR VENTILATION AIRFLOW DIAGRAM**  
NO SCALE



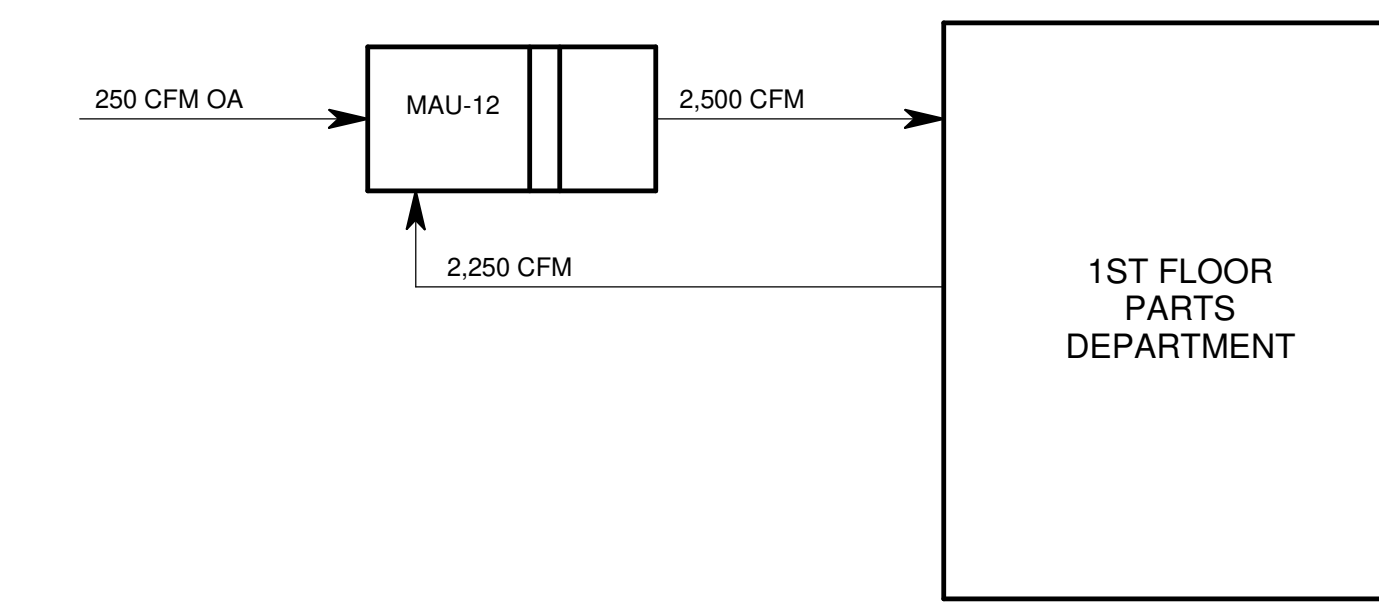
**8 2301 ELECTRICAL ROOM VENTILATION AIRFLOW DIAGRAM**  
NO SCALE



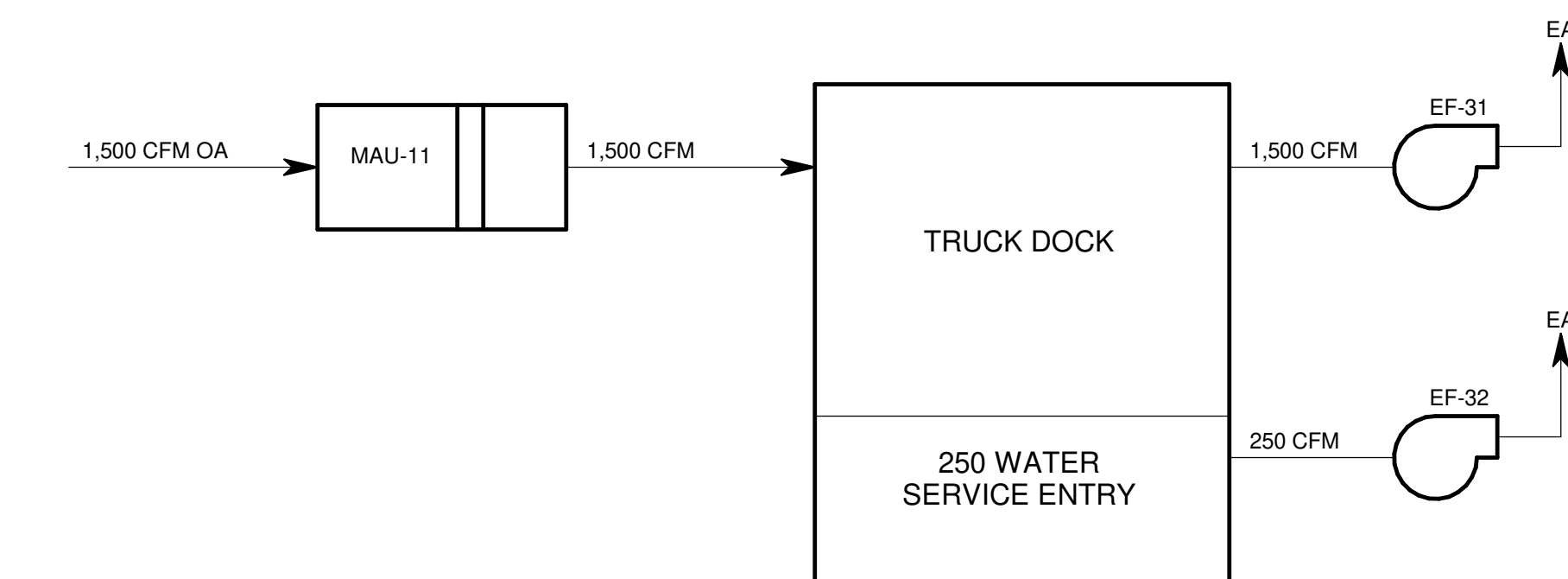
**9 1229 ELECTRICAL ROOM VENTILATION AIRFLOW DIAGRAM**  
NO SCALE



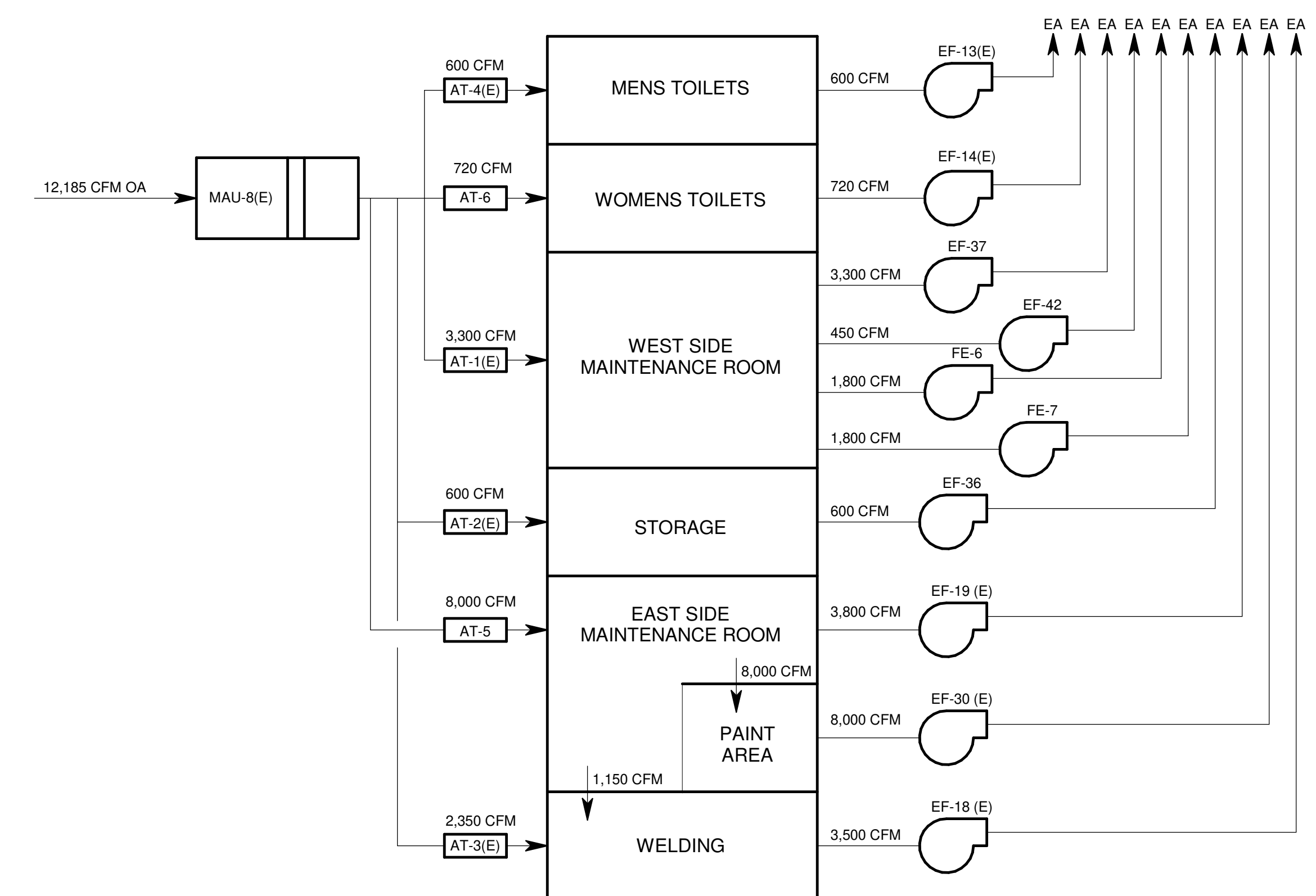
**1 AHU-1 1ST FLOOR TRAINING/BREAK ROOM AIRFLOW DIAGRAM**  
NO SCALE



**2 MAU-12 1ST FLOOR PARTS DEPARTMENT AIRFLOW DIAGRAM**  
NO SCALE



**3 MAU-11 TRUCK DOCK AIRFLOW DIAGRAM**  
NO SCALE



**4 MAINTENANCE MECHANICAL AIRFLOW DIAGRAM**  
NO SCALE



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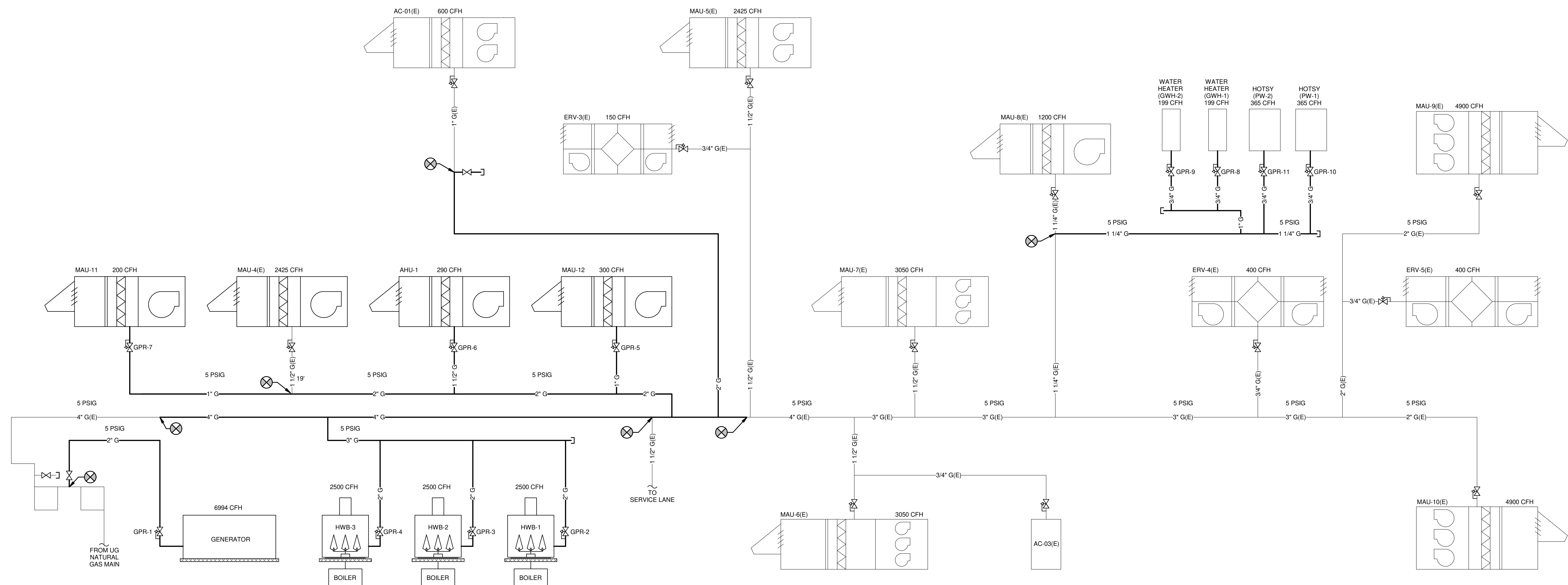
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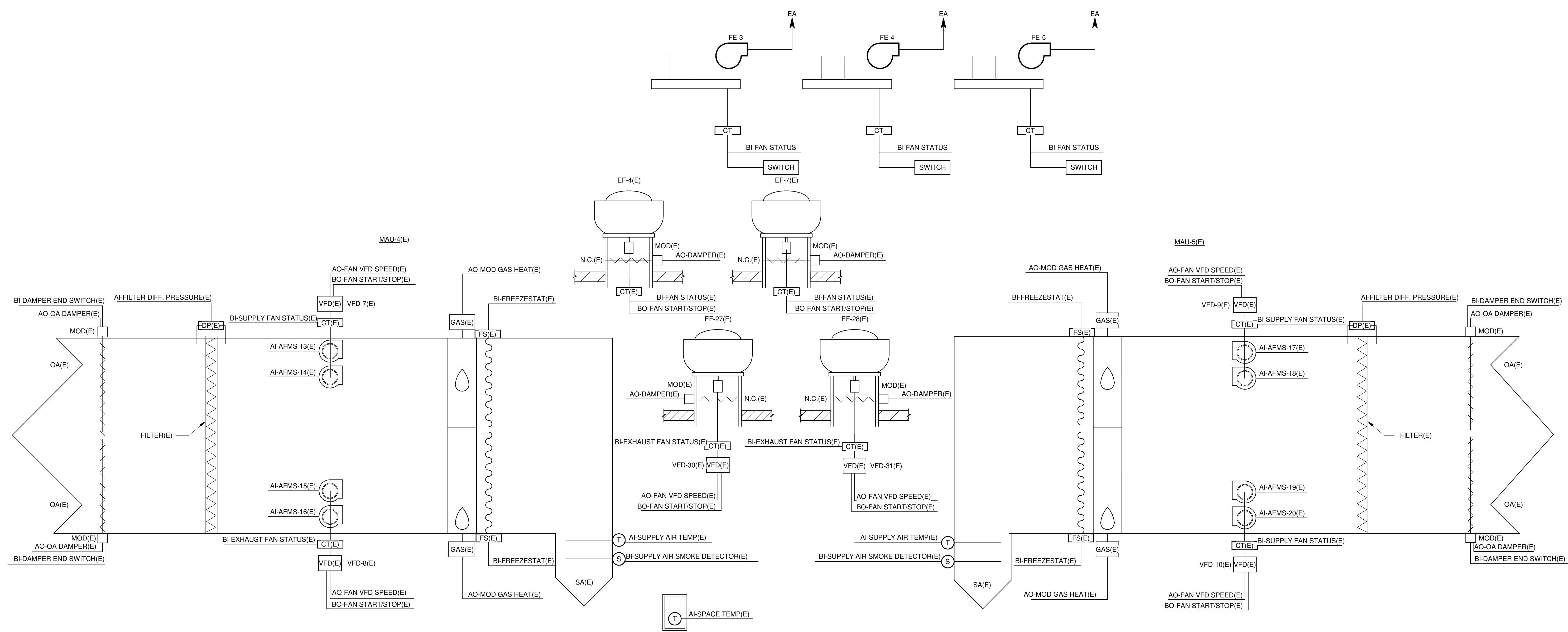
SHEET NO.:

**M-702**



**1 NATURAL GAS FLOW METER SCHEMATIC**  
NO SCALE

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**SEQUENCE OF OPERATIONS:**  
VARIABLE VOLUME MAKEUP AIR UNIT CONTROL (MAU-4 AND 5):  
FAN CONTROL - START/STOP: THE DDC SYSTEM SHALL START THE SUPPLY AND EXHAUST FANS VIA THEIR RESPECTIVE VFD'S.  
CURRENT STATUS SWITCH: PROVIDE VFD MOTOR RUN STATUS, IN THIS SECTION FOR THE SUPPLY AND EXHAUST FANS.  
VENTILATION AIR CONTROL: MAU-4(E) AND MAU-5(E) ARE 100% OUTSIDE AIR UNITS WITH ASSOCIATED 100% EXHAUST AIR FANS.  
MAU-4(E) SHALL BE 100% OUTSIDE AIR  
MAU-5(E) SHALL BE 100% OUTSIDE AIR  
EF-7(E) SHALL BE 100% EXHAUST AIR  
EF-27(E) AND EF-28(E) AT 100% EXHAUST AIR  
FE-3, 4, & FE-5 ARE ENERGIZED BY LOCAL VEHICLE REELS  
NORMAL MODE CONTROL: THE SUPPLY AND EXHAUST FANS SHALL OPERATE AT CONSTANT VOLUME DURING NORMAL MODE OPERATION AT 50% AIRFLOW VOLUME TO MAINTAIN SPACE TEMPERATURE. WHEN SPACE TEMPERATURE IS BELOW SETPOINT, MAU-4(E) AND 5(E) SHALL OPERATE AT 50% AIRFLOW RATE. THE REVERSE SHALL OCCUR WHEN IS ABOVE SETPOINT WHICH MAU-4 AND MAU-5 AT 100% AIRFLOW RATE IN VENTILATION MODE.  
MAU-4(E) SHALL BE A MINIMUM 50% OUTSIDE AIR  
MAU-5(E) SHALL BE A MINIMUM 50% OUTSIDE AIR  
EF-7(E) SHALL BE 100% EXHAUST AIR  
EF-27(E) IS 100% EXHAUST AIR AND EF-28(E) IS OFF  
FE-3, 4, & FE-5 ARE ENERGIZED BY LOCAL VEHICLE REELS  
OCCUPIED/UNOCCUPIED SCHEDULE SHALL BE SET AT THE DDC OPERATOR INTERFACE. WHEN UNIT IS INDEXED TO UNOCCUPIED, THE UNIT SHALL SHUTDOWN AND ONLY CYCLE TO MAINTAIN SETBACK AND SETUP TEMPERATURE SETPOINTS UNLESS OVERRIDDEN BY BUILDING AUTOMATION SYSTEM. UNIT CYCLING TO MAINTAIN SETBACK/SETUP TEMPERATURES: CYCLE THE MAKE-UP AIR UNIT ON TO MAINTAIN THE SETBACK AND SETUP TEMPERATURE ZONE SETPOINTS TO MAINTAIN 50° F AND 85° F RESPECTIVELY.  
SUPPLY FAN SPEED CONTROL: THE PURPOSE OF THE SUPPLY FAN SPEED CONTROL IS TO MAINTAIN VENTILATION WITHIN THE SPACE IN DIFFERENT OPERATING MODES. THE SUPPLY AND EXHAUST FANS SHALL OPERATE IN (2) MODES: NORMAL MODE AND VENTILATION MODE.  
THE AIRFLOW MEASURING STATION PROVIDED WITH THE SUPPLY FAN SHALL BE TO DETERMINE THE VFD SPEED SETTINGS THAT CORRESPOND WITH THE AIRFLOW RATES FOR EACH OPERATING MODE AS SCHEDULED ON THE DRAWINGS. REFER TO NORMAL MODE AND VENTILATION MODE CONTROL ABOVE.  
EXHAUST FAN SPEED CONTROL: THE PURPOSE OF THE EXHAUST FAN SPEED CONTROL IS TO MAINTAIN VENTILATION WITHIN THE SPACE IN DIFFERENT OPERATING MODES. THE EXHAUST FANS SHALL OPERATE IN (2) MODES: NORMAL MODE AND VENTILATION MODE. THE AIRFLOW MEASURING STATION PROVIDED WITH THE EXHAUST FAN SHALL BE USED TO DETERMINE THE VFD SPEED SETTINGS THAT CORRESPOND WITH THE AIRFLOW RATES FOR NORMAL OR VENTILATION MODE AS SCHEDULED ON THE DRAWINGS. REFER TO NORMAL MODE AND VENTILATION MODE CONTROL ABOVE.  
FILTERS: INSTALL A DIFFERENTIAL STATIC PRESSURE SENSOR ACROSS EACH FILTER BANK. ENSURE THAT THE STATIC PROBES DO NOT IMPEDE FILTER REMOVAL.  
FOR FILTER BANK, PROVIDE AN ALARM TO THE OPERATOR INTERFACE WHEN THE DIFFERENTIAL STATIC PRESSURE EXCEEDS 1.0" W.C. (ADJ.).  
DISCHARGE AIR TEMPERATURE CONTROL: THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE A FIXED 68° F (ADJ.). DISCHARGE AIR TEMPERATURE SETPOINT RESET FROM ZONE  
TEMPERATURE SETPOINT SHALL BE BASED ON THE ZONE TEMPERATURE BETWEEN 55° F (ADJ.) AND 75° F TO MAINTAIN A ZONE HEATING SETPOINT OF 72° F.  
WHEN HEATING IS COMPLETELY OFF AND THE ECONOMIZER SEQUENCE IS ENABLED, THE OUTSIDE AIR DAMPERS AND EXHAUST FANS DAMPERS SHALL BE OPEN IN SEQUENCE TO MAINTAIN SPACE TEMPERATURE SETPOINT.  
ECONOMIZER CONTROL:  
WHEN THE ECONOMIZER SEQUENCE IS ENABLED BY THE SWITCHOVER SEQUENCE BELOW, MAU-4(E) AND MAU-5(E) SHALL OPERATE AT 100% AIR FLOW RATE WITH ALL ASSOCIATED EXHAUST FANS AT 100% AIR FLOW RATE. THE OUTSIDE AIR DAMPERS AND EXHAUST AIR DAMPER SHALL OPEN IN SEQUENCE TO PROVIDE OUTSIDE AIR TO BE USED FOR FREE COOLING. THE DAMPERS SHALL OPEN IN SEQUENCE WITH THE GAS HEATING AS DESCRIBED IN THE DISCHARGE AIR TEMPERATURE CONTROL SEQUENCE ABOVE. THE DRY BULB ECONOMIZER SWITCHOVER SHALL BE ENABLED WHENEVER THE OUTSIDE AIR TEMPERATURE IS BELOW 68° F (ADJ.).  
GAS HEATING COIL CONTROL: MODULATE THE GAS HEATING COIL TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT.  
FREEZESTAT: INSTALL AN ELECTRIC FREEZESTAT TO SHUT DOWN THE UNIT (SEE UNIT SHUTDOWN FOR ADDITIONAL INFORMATION) IF THE TEMPERATURE UPSTREAM OF THE HEATING SECTION DROPS BELOW 35° F (ADJ.). THE ELECTRIC FREEZESTAT SHALL ACT INDEPENDENTLY OF THE DDC SYSTEM VIA HARDWIRE INTERLOCK AND SHALL OVERRIDE  
THE DDC SYSTEM CONTROL SIGNAL TO DEENERGIZE THE SUPPLY(S) AND EXHAUST FAN(S), THE OUTSIDE AIR DAMPER AND EXHAUST DAMPER SHALL CLOSE.  
A FREEZESTAT TRIP SHALL NOTIFY THE DDC SYSTEM THAT SHALL SEND AN ALARM TO THE OPERATOR INTERFACE.  
FIRE ALARM SHUTDOWN: UPON A LOCAL FIRE ALARM SYSTEM ALARM, THE FIRE ALARM CONTROL MODULE PROVIDED BY THE ELECTRICAL CONTRACTOR AT THE TEMPERATURE CONTROL PANEL SHALL CHANGE STATE OF ITS CONTACTS. THIS SHALL CAUSE THE UNIT TO BE SHUT DOWN (SEE UNIT SHUTDOWN FOR ADDITIONAL INFORMATION). AN AUXILIARY CONTACT SHALL BE PROVIDED TO NOTIFY THE DDC SYSTEM OF A LOCAL FIRE ALARM SHUTDOWN.  
UNIT SHUTDOWN: WHENEVER THE MAKEUP AIR UNIT IS INDEXED OFF, THE SUPPLY AND ASSOCIATED EXHAUST FAN(S) SHALL STOP. ON A FAILURE OF THE SUPPLY OR EXHAUST FAN(S), AN ALARM SHALL BE SENT THROUGH THE DDC SYSTEM. WHENEVER THE SUPPLY FAN(S) IS OFF  
FOR ANY REASON THE FOLLOWING SHALL OCCUR:  
THE OUTSIDE AIR DAMPER AND EXHAUST DAMPER SHALL CLOSE.  
THE GAS HEATING VALVE(S) SHALL CLOSE.  
UNOCCUPIED CONTROL: GENERAL: OCCUPIED/UNOCCUPIED SCHEDULE SHALL BE SET AT THE DDC OPERATOR INTERFACE. WHEN INDEXED TO UNOCCUPIED THE UNIT SHALL SHUTDOWN.  
EXHAUST FAN CONTROL (EF-7(E), 27(E) & 28(E)):  
FAN CONTROL - START/STOP: THE DDC SYSTEM SHALL START THE EXHAUST FANS VIA THEIR ASSOCIATED VFD OR STARTER MOTORS.  
CURRENT STATUS SWITCH: PROVIDE CURRENT STATUS SWITCHES FOR EXHAUST FANS.  
INTERLOCK: THE EXHAUST FANS SHALL BE INTERLOCKED VIA THE DDC SYSTEM WITH MAU-4(E) AND MAU-5(E).  
EXHAUST FANS EF-7(E), 27(E) & 28(E) REQUIRED MOTORIZED AUTOMATIC DAMPERS. WHEN EXHAUST FANS EF-7(E), 27(E) & 28(E) ARE ENERGIZED, THE MOTORIZED AUTOMATIC DAMPER ASSOCIATED WITH THE FAN SHALL OPEN AND THE FAN MOTOR SHALL START. WHEN DE-ENERGIZED, THE FAN MOTOR SHALL STOP AND THE MOTORIZED AUTOMATIC DAMPER SHALL CLOSE. THE AUTOMATIC DAMPER SHALL BE HARD WIRE TO THE FAN POWER.  
UNIT SHUTDOWN: WHENEVER THE SYSTEM IS INDEXED OFF, THE EXHAUST FANS SHALL STOP. THE ASSOCIATED MAKE-UP AIR UNIT WILL RETURN EITHER THE NORMAL MODE OR TO NEXT DDC SCHEDULED FOR OCCUPIED/UNOCCUPIED SETTING. ON A FAILURE OF THE EXHAUST FAN, AN ALARM SHALL BE SENT THROUGH THE DDC SYSTEM. WHENEVER  
THE EXHAUST FAN OR EXHAUST FANS ARE OFF FOR ANY REASON THE FOLLOWING SHALL OCCUR: THE EXHAUST FANS SHALL STOP AND THE EXHAUST AIR DAMPERS SHALL CLOSE.

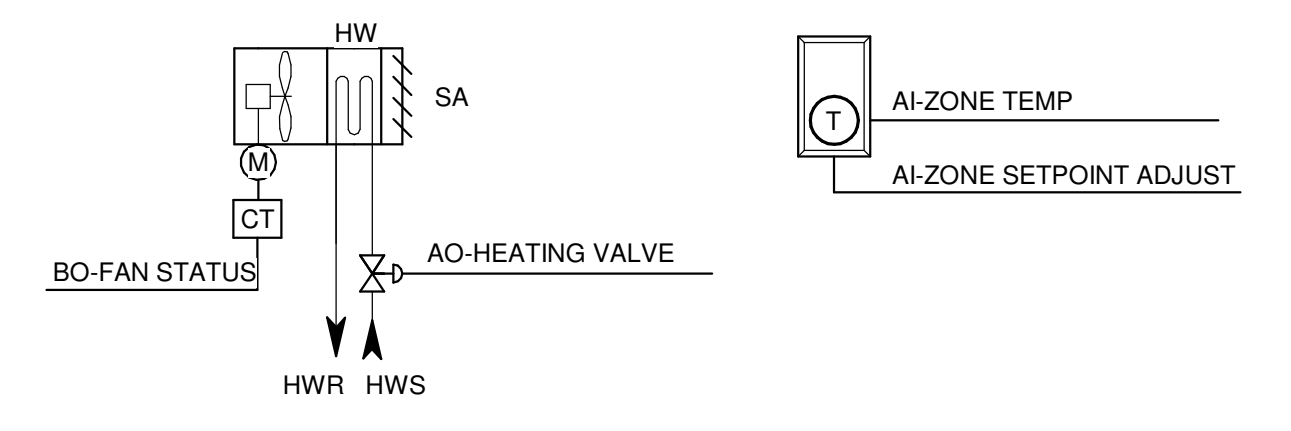




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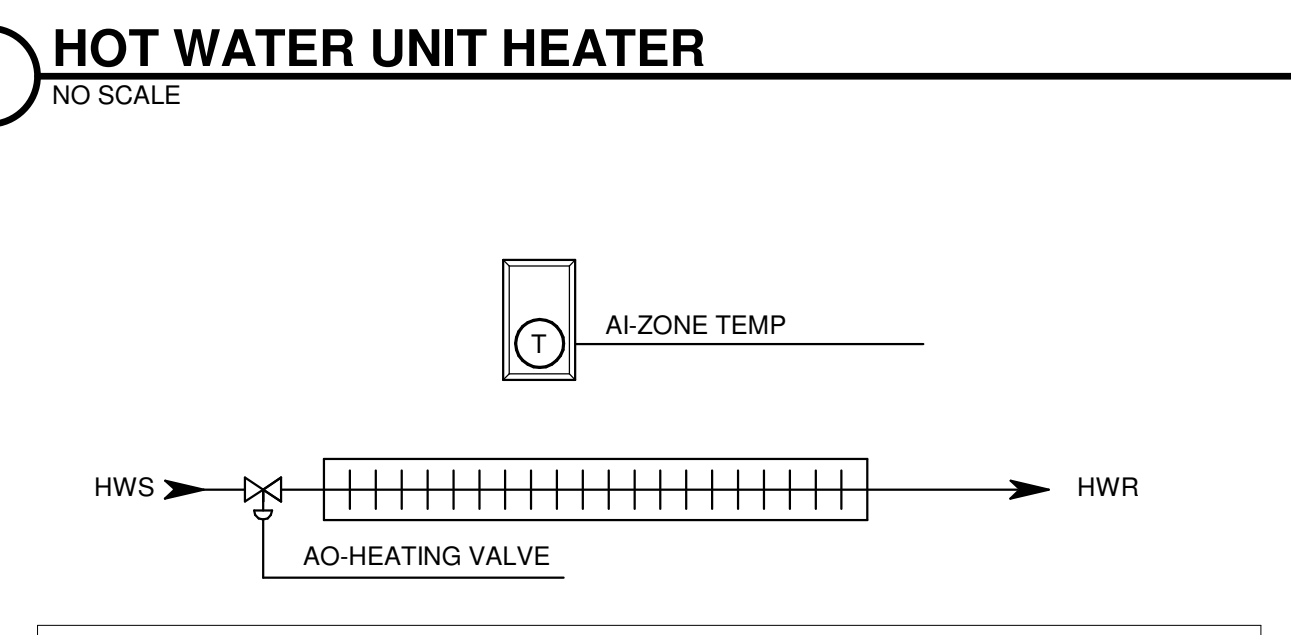
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 SHEET CONTENTS  
**CONTROL SCHEMATICS**

SHEET NO.:



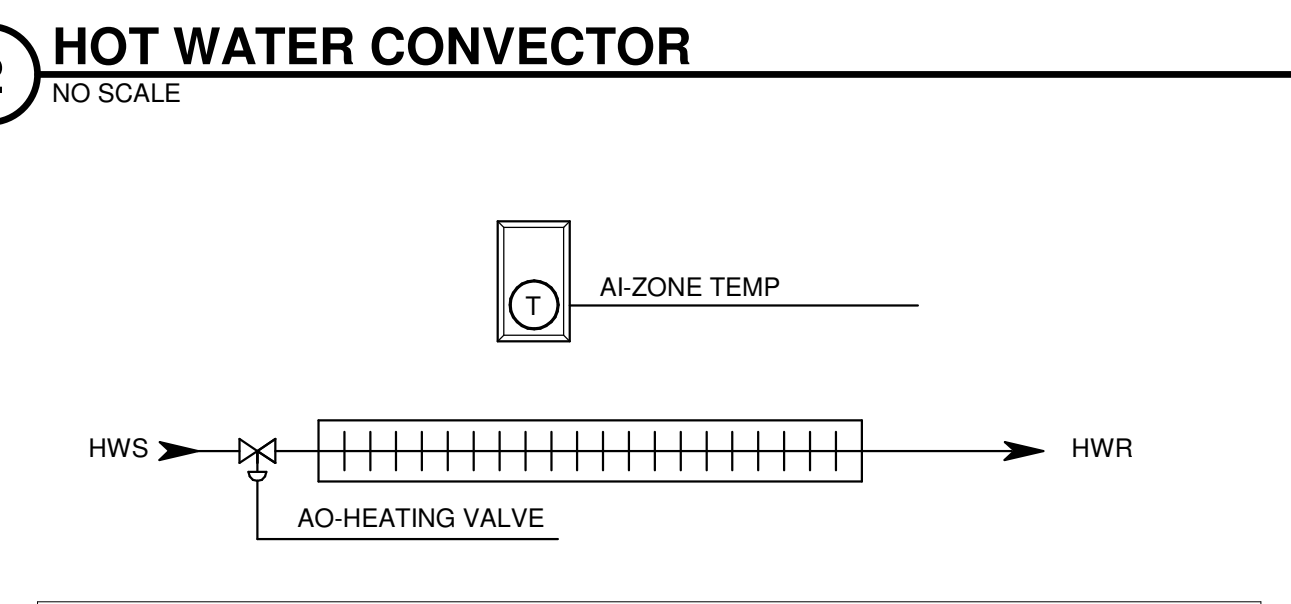
**1 HOT WATER UNIT HEATER**  
 NO SCALE

SEQUENCE OF OPERATIONS:  
 PROVIDE A DDC SPACE TEMPERATURE SENSOR TO CONTROL THE CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE. PROVIDE DDC START/STOP FOR FAN CONTROL. CYCLE FAN ON WHEN CALLING FOR HEATING. MODULATE HOT WATER CONTROL VALVE OPEN IN SEQUENCE WITH FAN TO MAINTAIN SPACE TEMPERATURE SETPOINT (ADJ.). WHEN SPACE IS SATISFIED FAN SHALL CYCLE OFF AND HOT WATER CONTROL VALVE SHALL MODULATE CLOSED. SEND AN ALARM IF SPACE TEMPERATURE FALLS 10° F (ADJ.) BELOW SETPOINT FOR MORE THAN 15 MINUTES (ADJ.).



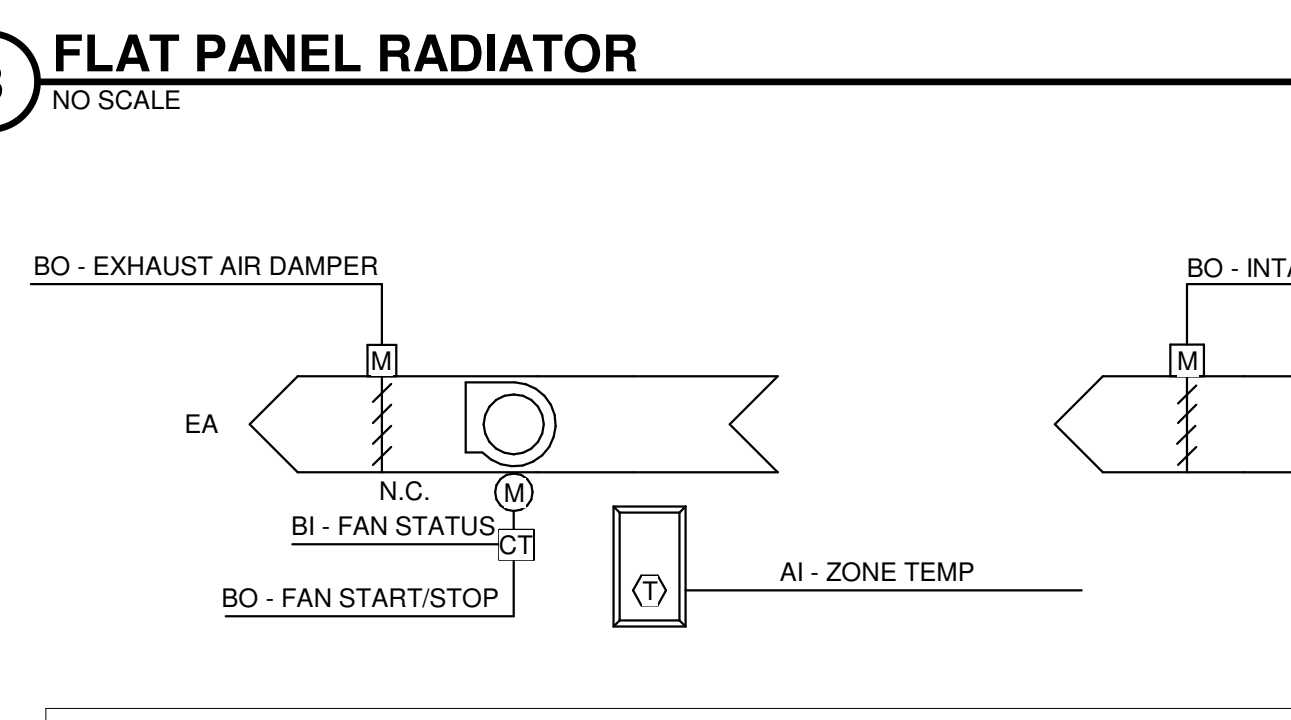
**2 HOT WATER CONVECTOR**  
 NO SCALE

SEQUENCE OF OPERATIONS:  
 PROVIDE A DDC SPACE TEMPERATURE SENSOR TO CONTROL THE CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE. MODULATE HOT WATER CONTROL VALVE OPEN IN SEQUENCE WITH FAN TO MAINTAIN SPACE TEMPERATURE SETPOINT (ADJ.). WHEN SPACE IS SATISFIED THE WATER CONTROL VALVE SHALL MODULATE CLOSED. SEND AN ALARM IF SPACE TEMPERATURE FALLS 10° F (ADJ.) BELOW SETPOINT FOR MORE THAN 15 MINUTES (ADJ.).



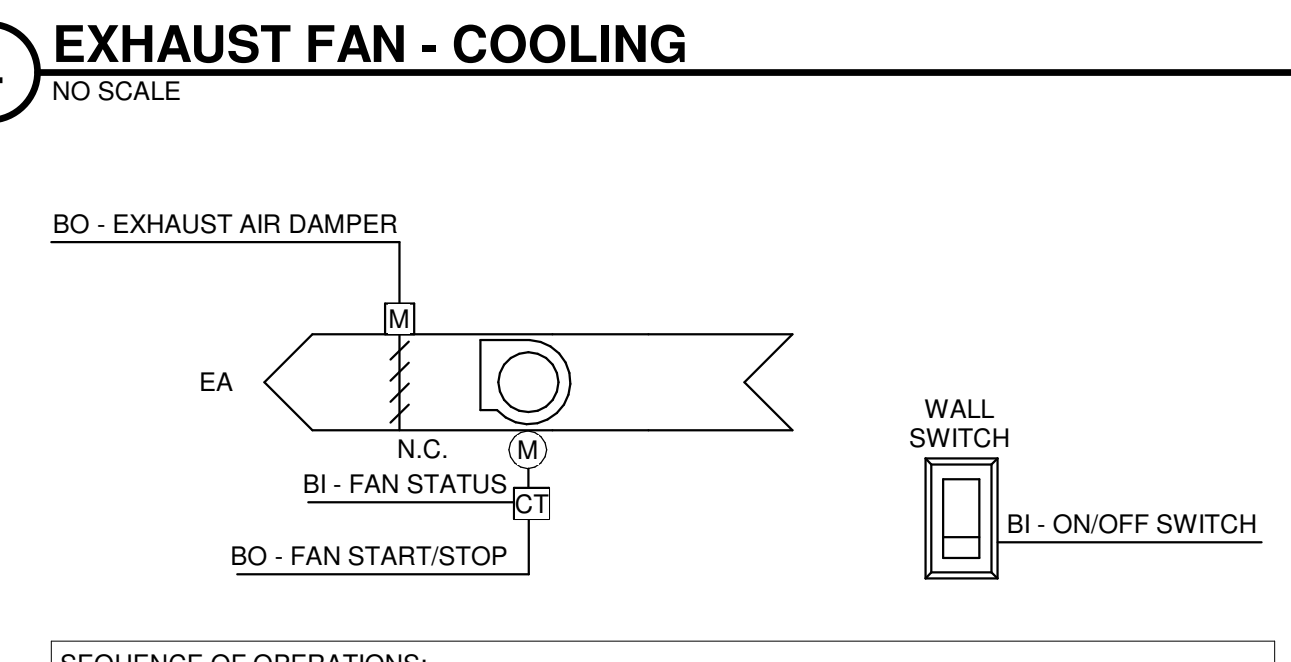
**3 FLAT PANEL RADIATOR**  
 NO SCALE

SEQUENCE OF OPERATIONS:  
 PROVIDE A DDC SPACE TEMPERATURE SENSOR TO CONTROL THE CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE. MODULATE HOT WATER CONTROL VALVE OPEN IN SEQUENCE WITH FAN TO MAINTAIN SPACE TEMPERATURE SETPOINT (ADJ.). WHEN SPACE IS SATISFIED THE WATER CONTROL VALVE SHALL MODULATE CLOSED. SEND AN ALARM IF SPACE TEMPERATURE FALLS 10° F (ADJ.) BELOW SETPOINT FOR MORE THAN 15 MINUTES (ADJ.).



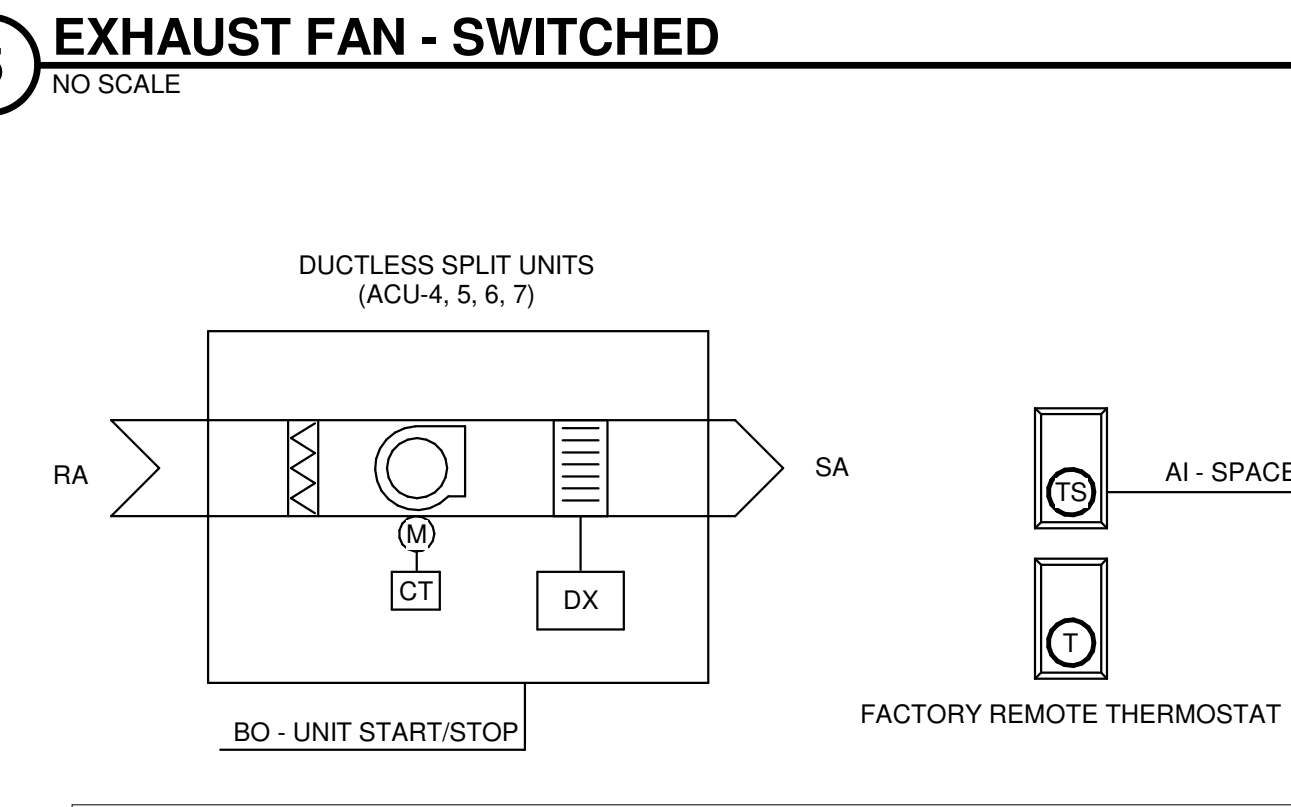
**4 EXHAUST FAN - COOLING**  
 NO SCALE

SEQUENCE OF OPERATION:  
 FAN CONTROL: START/STOP: THE FAN SHALL BE STARTED AND STOPPED VIA HAND-OFF-AUTO SWITCH AND LOCAL THERMOSTAT.  
 TEMPERATURE CONTROL: THE EXHAUST FAN SHALL OPERATE WHEN THE ROOM TEMPERATURE IS ABOVE SET POINT.



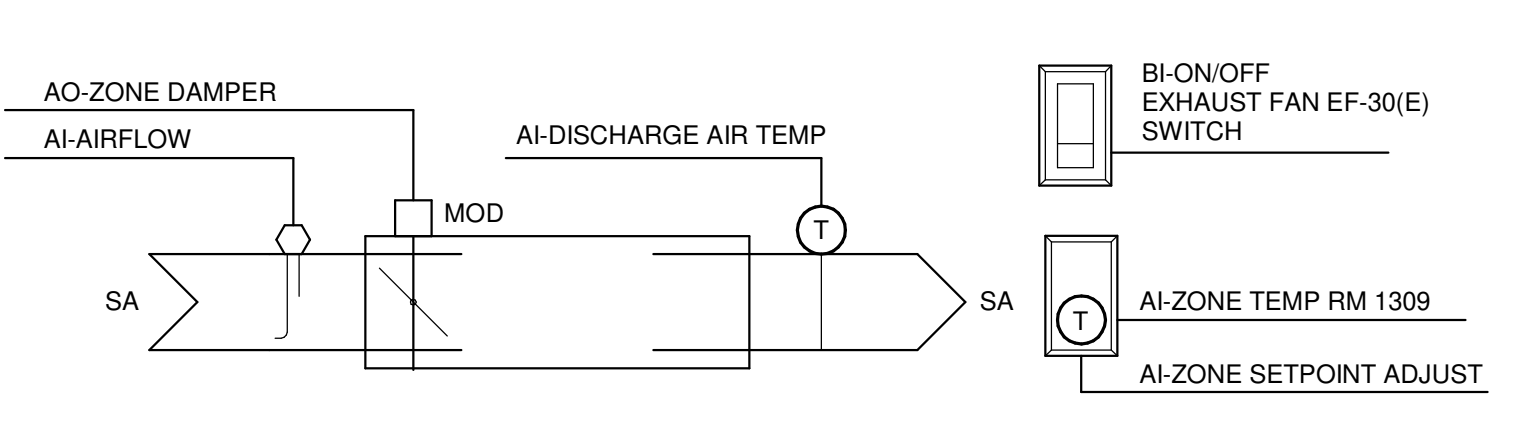
**5 EXHAUST FAN - SWITCHED**  
 NO SCALE

SEQUENCE OF OPERATIONS:  
 FAN CONTROL: START/STOP: THE FAN SHALL BE STARTED AND STOPPED VIA INTERLOCK WITH THE LOCAL TOGGLE SWITCH. COORDINATE WITH EC. WHEN EXHAUST FAN IS ENERGIZED, THE MOTORIZED AUTOMATIC DAMPER ASSOCIATED WITH THE FAN SHALL OPEN AND THE FAN MOTOR SHALL START. THE EXHAUST FAN SHALL STOP AND THE EXHAUST MOTOR OPERATOR DAMPER SHALL CLOSE.  
 CURRENT STATUS SWITCH: PROVIDE CURRENT STATUS SWITCH FOR EXHAUST FAN. PROVIDE STATUS INDICATION THRU DDC FOR EXHAUST FAN.



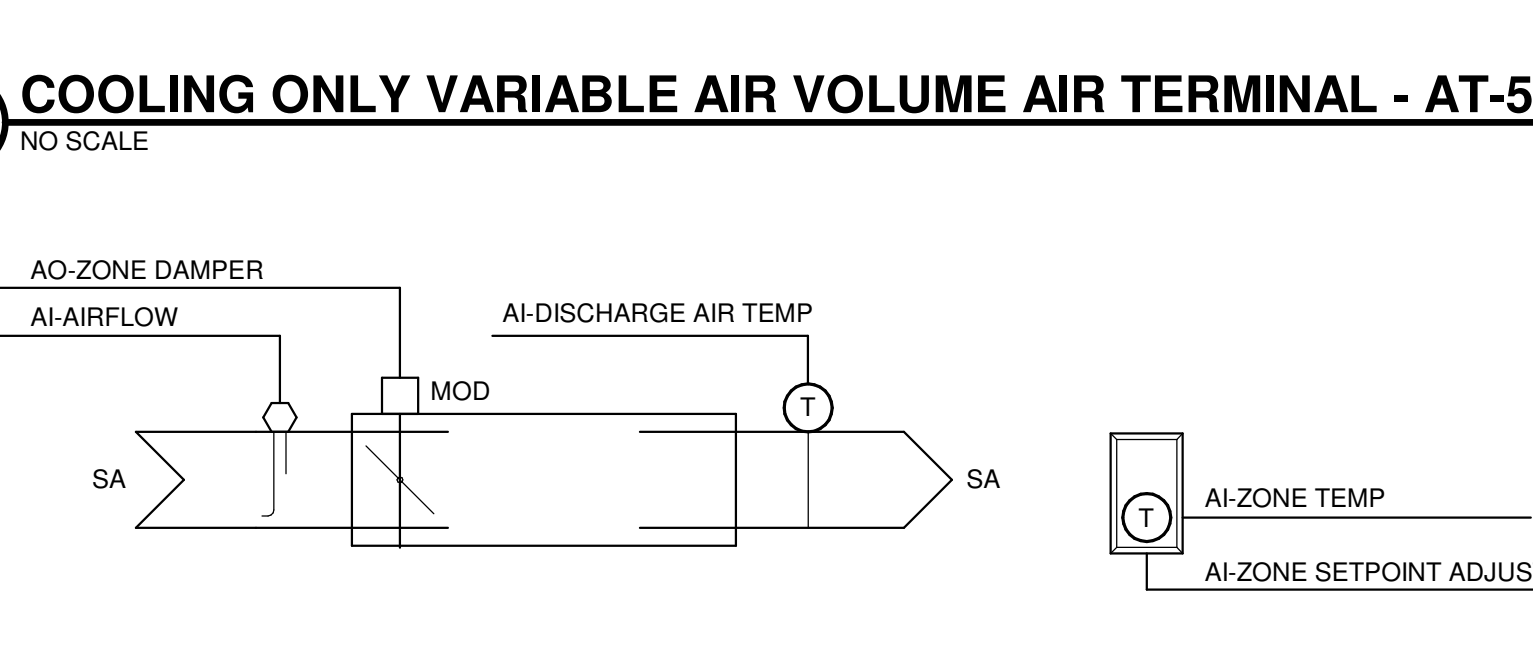
**6 DUCTLESS SPLIT AIR CONDITIONER UNITS**  
 NO SCALE

SEQUENCE OF OPERATION:  
 SPLIT SYSTEM AIR CONDITIONERS SHALL OPERATE ACCORDING TO PACKAGED CONTROLS AND SEQUENCES. SPACE TEMPERATURE SHALL BE MONITORED THRU DDC SYSTEM WITH LOCAL SPACE TEMPERATURE SENSOR. PROVIDE ALARM THRU DDC SYSTEM IF SPACE TEMPERATURE RISES ABOVE 75° F (ADJ.) OR DROPS BELOW 65° F (ADJ.).



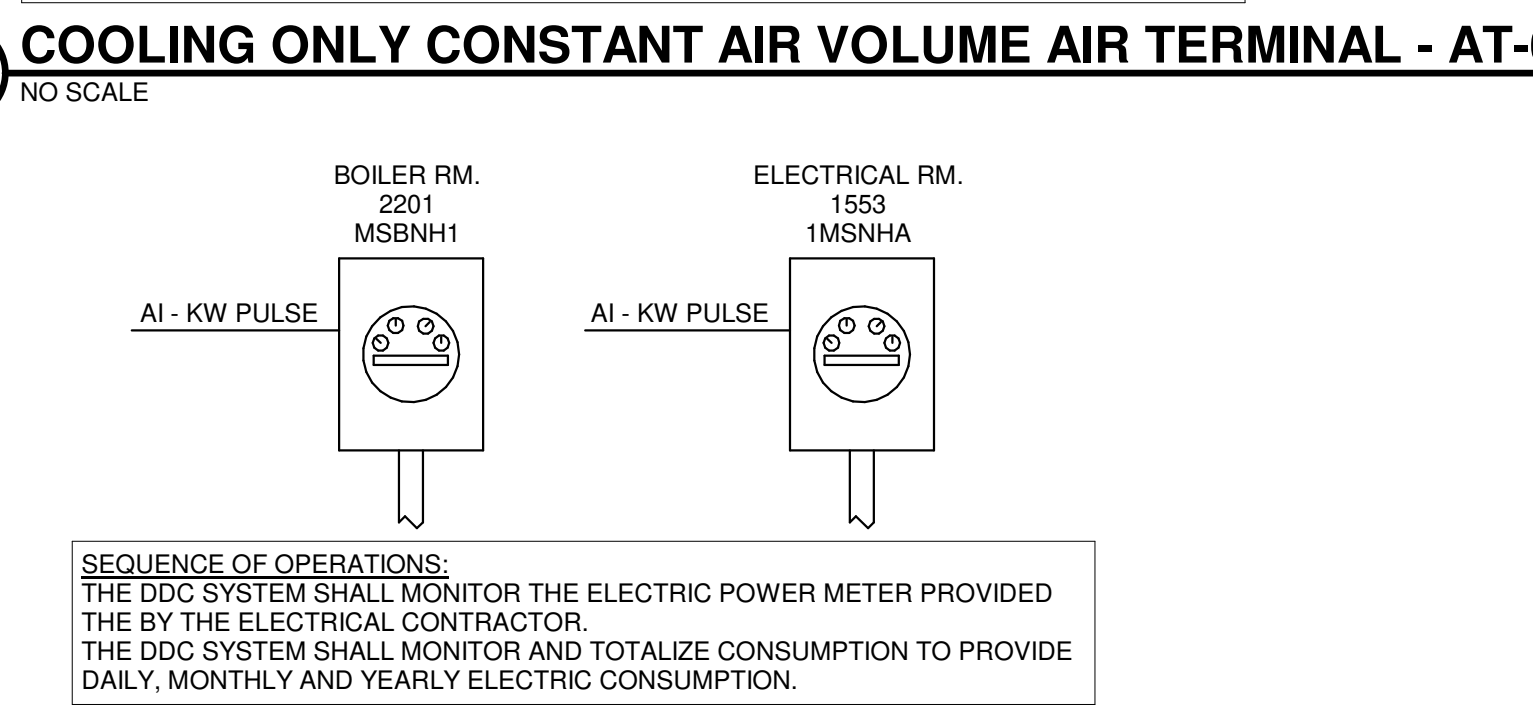
**7 COOLING ONLY VARIABLE AIR VOLUME AIR TERMINAL - AT-5**  
 NO SCALE

SEQUENCE OF OPERATIONS:  
 CAV TERMINAL UNIT CONTROL (AT-5):  
 REFER TO THE AIR TERMINAL SCHEDULES ON THE PLANS FOR EXHAUST FAN EF-19(E) INTERLOCK REQUIREMENTS, MINIMUM AND MAXIMUM FLOW RATES. ALL AIRFLOW SETPOINTS SHALL BE ADJUSTABLE.  
 PROVIDE A DDC SPACE TEMPERATURE SENSOR TO CONTROL. IN SEQUENCE WITH THE EXHAUST FAN EF-19(E) INTERLOCK. WHEN SPACE TEMPERATURE IS BELOW SETPOINT, THE AIR TERMINAL DAMPER SHALL CLOSE TO THE COOLING MINIMUM FLOW POSITION TO MAINTAIN SPACE TEMPERATURE. THE REVERSE SHALL OCCUR WHEN SPACE TEMPERATURE IS BELOW SETPOINT AND EXHAUST FAN EF-19(E) SHALL BE ENERGIZED.  
 DISCHARGE AIR TEMPERATURE SHALL BE MONITORED FOR SUPPLY AIR TERMINAL.  
 THE BALANCER SHALL MEASURE THE EXHAUST FLOW AND PROVIDE THE MINIMUM AND MAXIMUM SPEEDS FOR MATCHING AIR TERMINAL TO THE CONTROL CONTRACTOR.



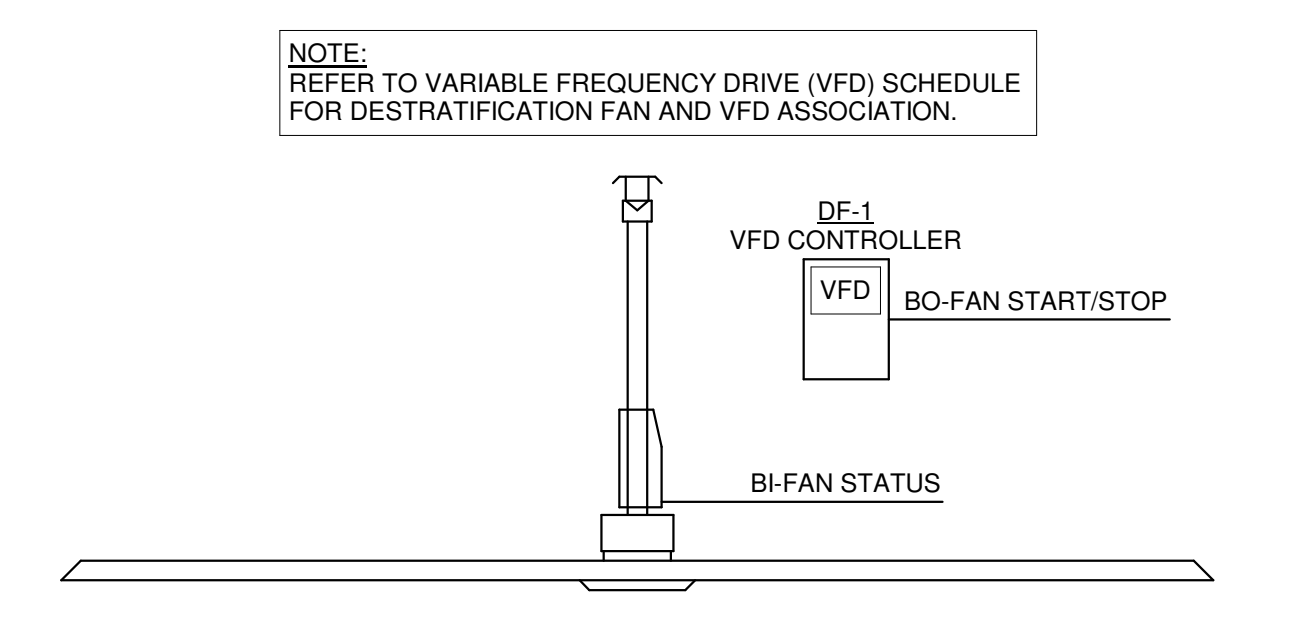
**8 COOLING ONLY CONSTANT AIR VOLUME AIR TERMINAL - AT-6**  
 NO SCALE

SEQUENCE OF OPERATIONS:  
 CAV TERMINAL UNIT CONTROL (AT-6):  
 REFER TO THE AIR TERMINAL SCHEDULES ON THE PLANS FOR EXHAUST FAN EF-14 INTERLOCK REQUIREMENTS, MINIMUM AND MAXIMUM FLOW RATES. ALL AIRFLOW SETPOINTS SHALL BE ADJUSTABLE.  
 WHEN EXHAUST FAN (EF-14) IS ENERGIZED BY OCCUPANCY SCHEDULE, THE AIR TERMINAL SHALL MODULATE FROM MINIMUM TO MAXIMUM FLOW RATES. AIR TERMINAL SUPPLY AIRFLOW SHALL TRACK WITH THE EXHAUST FAN WHEN ENERGIZED.  
 DISCHARGE AIR TEMPERATURE SHALL BE MONITORED FOR SUPPLY AIR TERMINAL.  
 THE BALANCER SHALL MEASURE THE EXHAUST FLOW AND PROVIDE THE MINIMUM AND MAXIMUM SPEEDS FOR MATCHING AIR TERMINAL TO THE CONTROL CONTRACTOR.



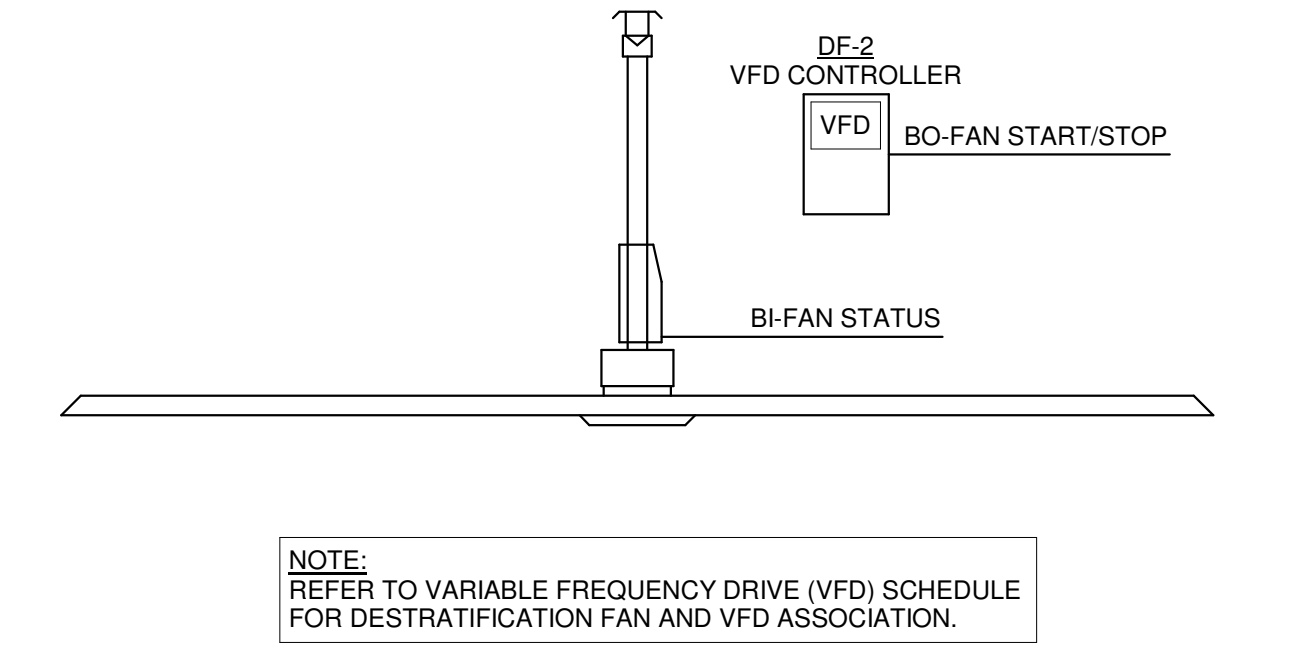
**9 ELECTRIC METERS**  
 NO SCALE

SEQUENCE OF OPERATIONS:  
 THE DDC SYSTEM SHALL MONITOR THE ELECTRIC POWER METER PROVIDED BY THE ELECTRICAL CONTRACTOR.  
 THE DDC SYSTEM SHALL MONITOR AND TOTALIZE CONSUMPTION TO PROVIDE DAILY, MONTHLY AND YEARLY ELECTRIC CONSUMPTION.



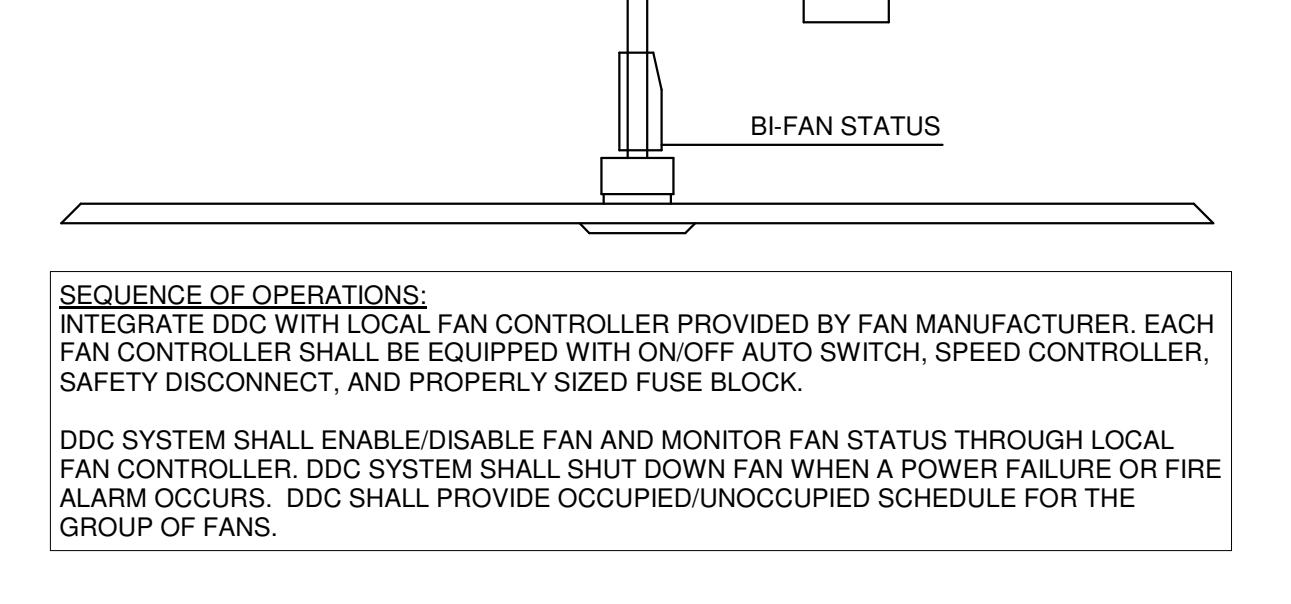
**13 DESTRATIFICATION FANS - ROOM 131**  
 NO SCALE

NOTE:  
 REFER TO VARIABLE FREQUENCY DRIVE (VFD) SCHEDULE FOR DESTRATIFICATION FAN AND VFD ASSOCIATION.



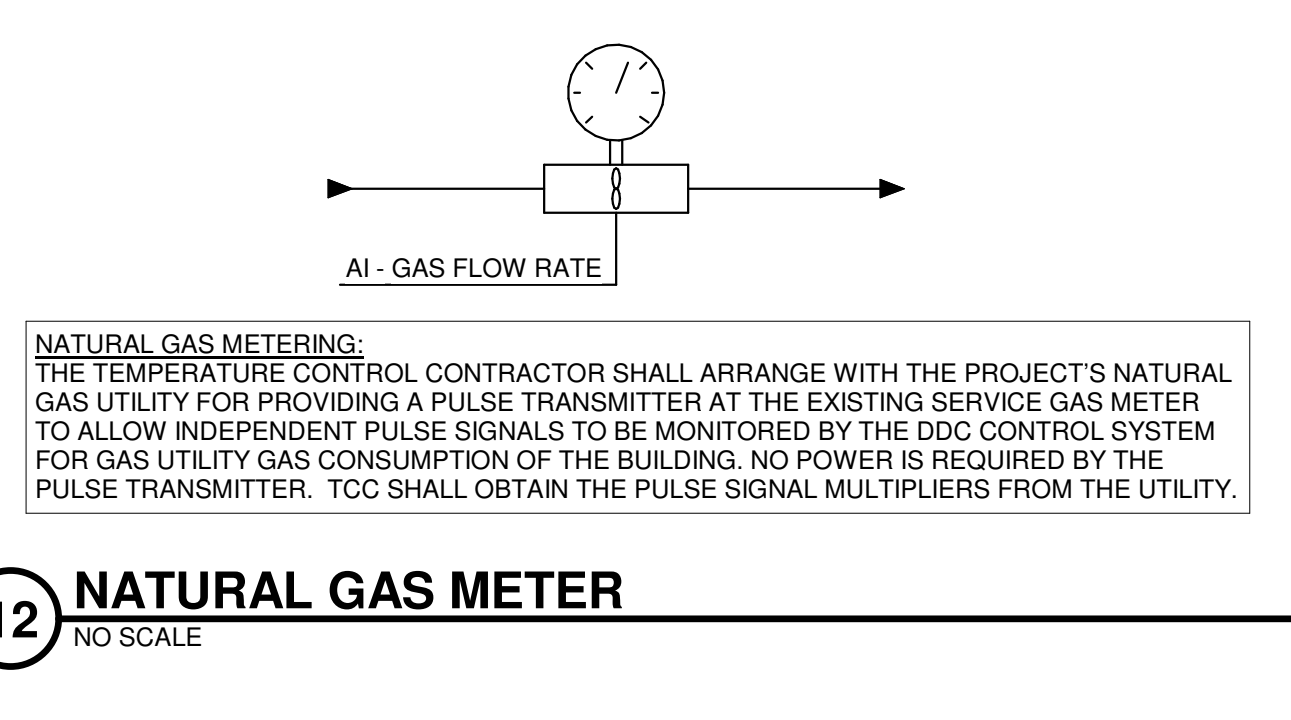
**11 DESTRATIFICATION FANS - ROOM 1218**  
 NO SCALE

NOTE:  
 REFER TO VARIABLE FREQUENCY DRIVE (VFD) SCHEDULE FOR DESTRATIFICATION FAN AND VFD ASSOCIATION.



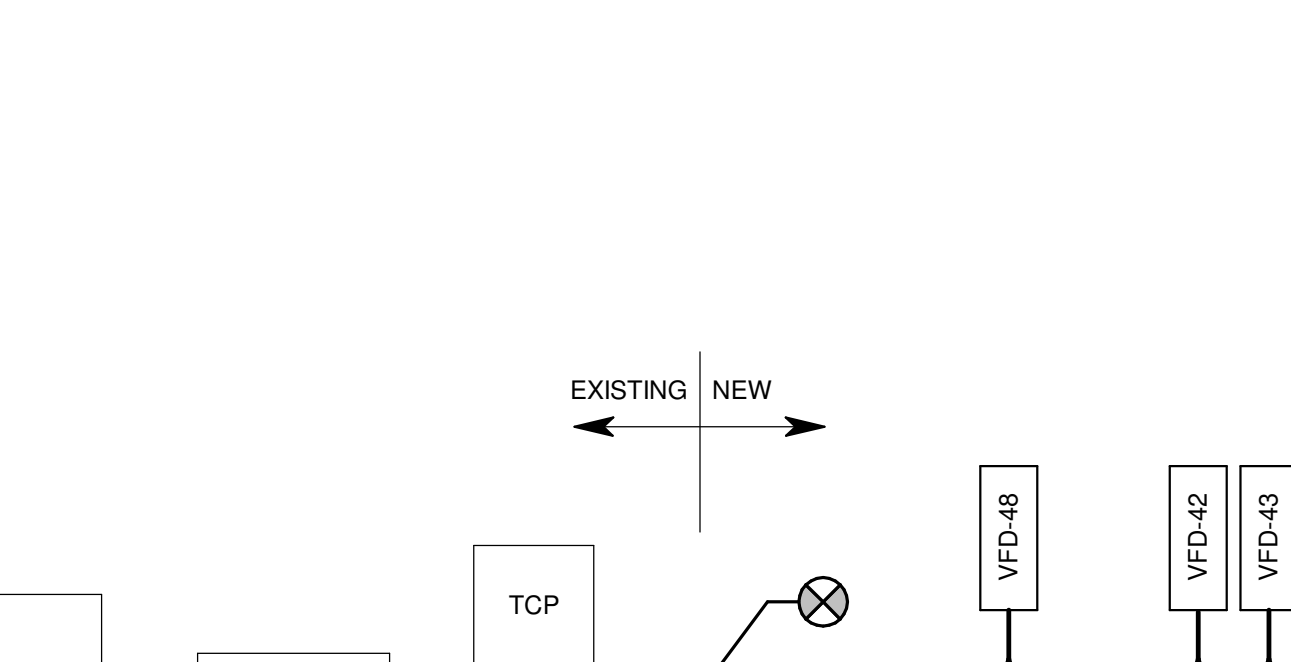
**12 NATURAL GAS METER**  
 NO SCALE

NATURAL GAS METERING:  
 THE TEMPERATURE CONTROL CONTRACTOR SHALL ARRANGE WITH THE PROJECT'S NATURAL GAS UTILITY FOR PROVIDING A PULSE TRANSMITTER AT THE EXISTING SERVICE GAS METER TO ALLOW INDEPENDENT PULSE SIGNALS TO BE MONITORED BY THE DDC CONTROL SYSTEM FOR GAS UTILITY GAS CONSUMPTION OF THE BUILDING. NO POWER IS REQUIRED BY THE PULSE TRANSMITTER. TCC SHALL OBTAIN THE PULSE SIGNAL MULTIPLIERS FROM THE UTILITY.



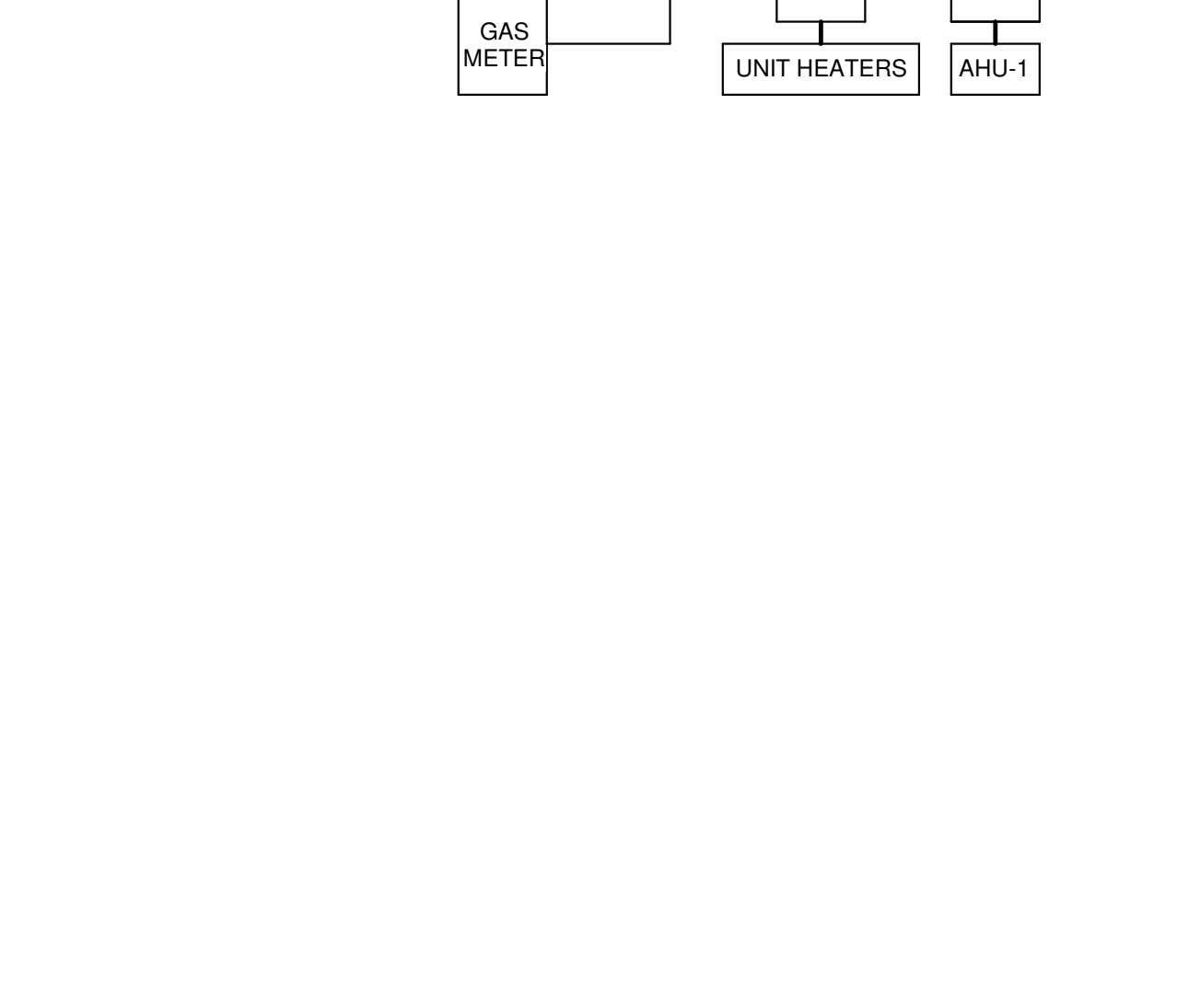
**14 DESTRATIFICATION FANS - ROOM 132**  
 NO SCALE

SEQUENCE OF OPERATIONS:  
 INTEGRATE DDC WITH LOCAL FAN CONTROLLER PROVIDED BY FAN MANUFACTURER. EACH FAN CONTROLLER SHALL BE EQUIPPED WITH ON/OFF AUTO SWITCH, SPEED CONTROLLER, SAFETY DISCONNECT, AND PROPERLY SIZED FUSE BLOCK.  
 DDC SYSTEM SHALL ENABLE/DISABLE FAN AND MONITOR FAN STATUS THROUGH LOCAL FAN CONTROLLER. DDC SYSTEM SHALL SHUT DOWN FAN WHEN A POWER FAILURE OR FIRE ALARM OCCURS. DDC SHALL PROVIDE OCCUPIED/UNOCCUPIED SCHEDULE FOR THE GROUP OF FANS.

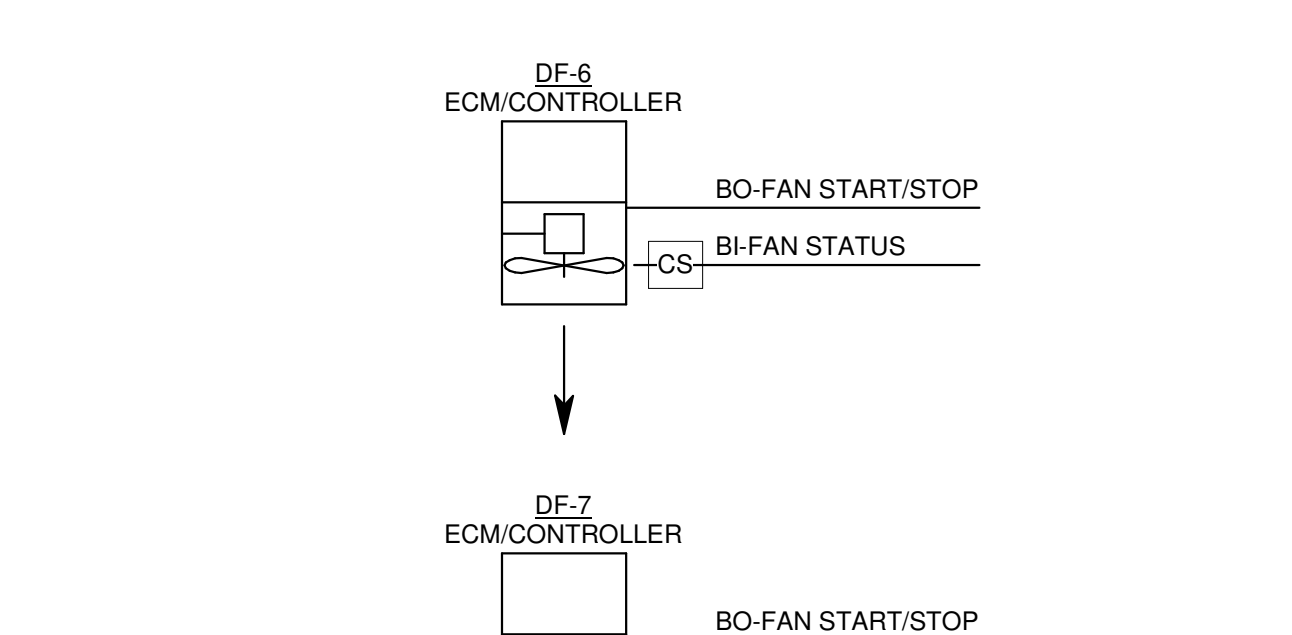


**15 FAN FILTER UNITS - 1309**  
 NO SCALE

SEQUENCE OF OPERATIONS:  
 INTEGRATE DDC WITH LOCAL FAN CONTROLLER PROVIDED BY FAN MANUFACTURER. EACH FAN CONTROLLER SHALL BE EQUIPPED WITH ON/OFF AUTO SWITCH, SPEED CONTROLLER, SAFETY DISCONNECT, AND PROPERLY SIZED FUSE BLOCK.  
 DDC SYSTEM SHALL ENABLE/DISABLE FAN AND MONITOR FAN STATUS THROUGH LOCAL BUILDING AUTOMATION SYSTEM. DDC SYSTEM SHALL SHUT DOWN FAN WHEN A POWER FAILURE OR FIRE ALARM OCCURS. DDC SHALL PROVIDE OCCUPIED/UNOCCUPIED SCHEDULE FOR THE GROUP OF FANS.

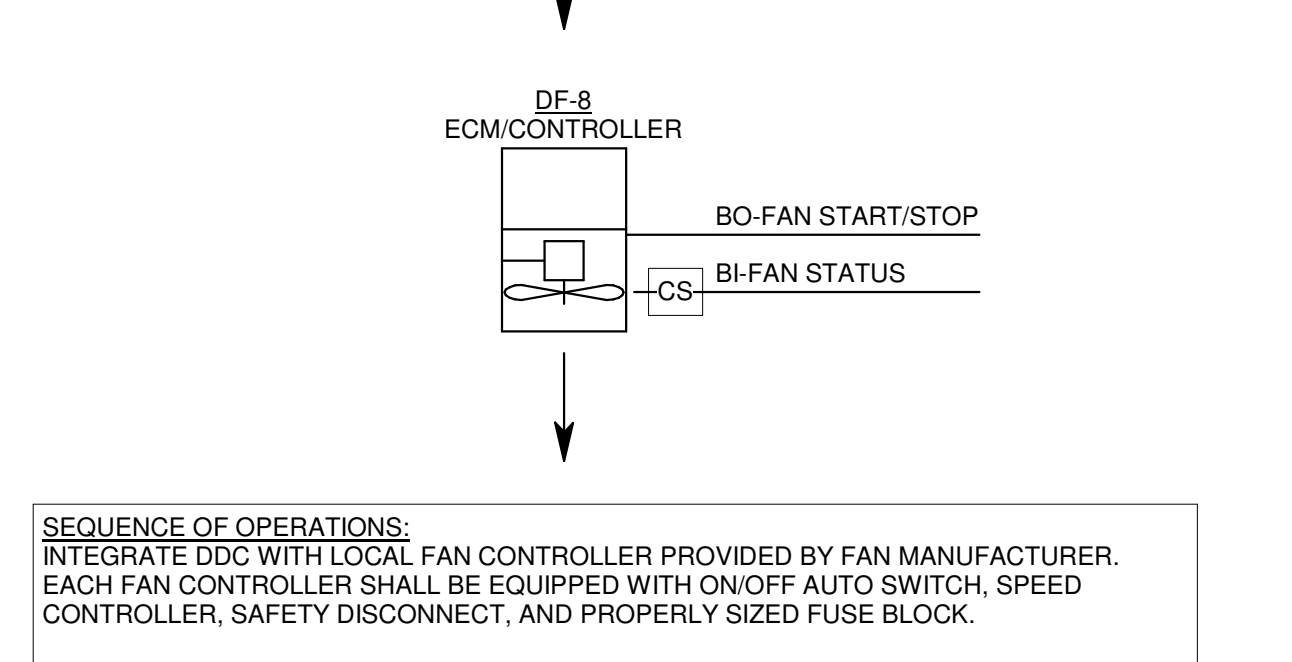


**10 BAS-SYSTEM ARCHITECTURE NETWORK**  
 NO SCALE



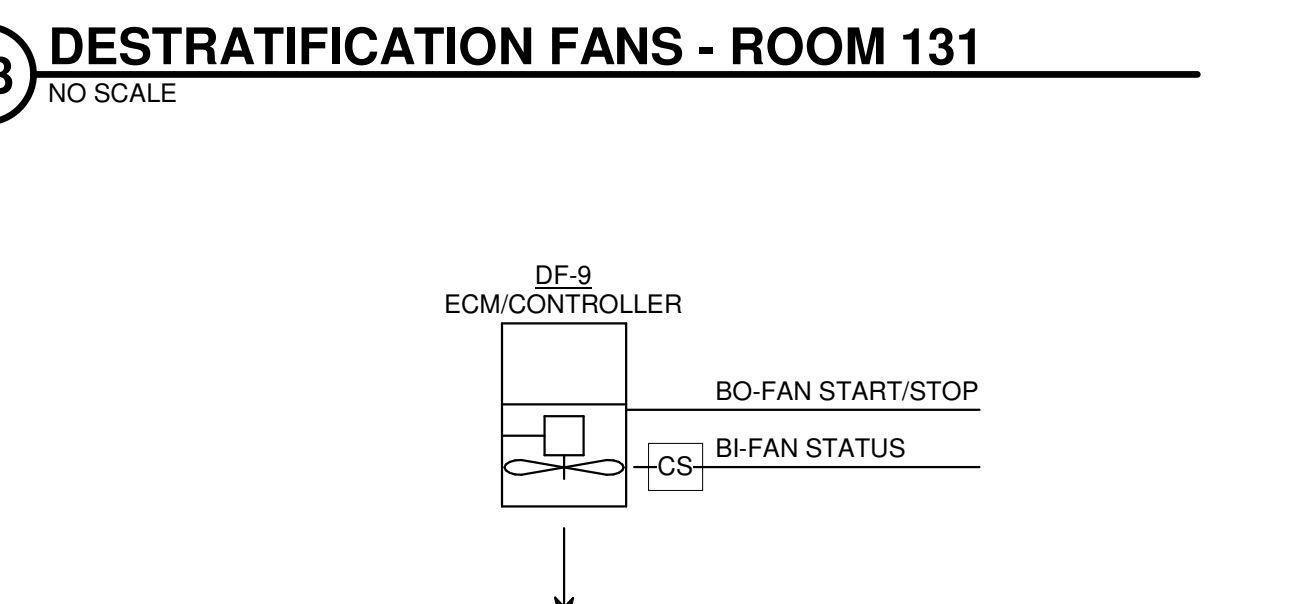
**13 DESTRATIFICATION FANS - ROOM 131**  
 NO SCALE

SEQUENCE OF OPERATIONS:  
 INTEGRATE DDC WITH LOCAL FAN CONTROLLER PROVIDED BY FAN MANUFACTURER. EACH FAN CONTROLLER SHALL BE EQUIPPED WITH ON/OFF AUTO SWITCH, SPEED CONTROLLER, SAFETY DISCONNECT, AND PROPERLY SIZED FUSE BLOCK.  
 DDC SYSTEM SHALL ENABLE/DISABLE FAN AND MONITOR FAN STATUS THROUGH LOCAL FAN CONTROLLER. DDC SYSTEM SHALL SHUT DOWN FAN WHEN A POWER FAILURE OR FIRE ALARM OCCURS. DDC SHALL PROVIDE OCCUPIED/UNOCCUPIED SCHEDULE FOR THE GROUP OF FANS.



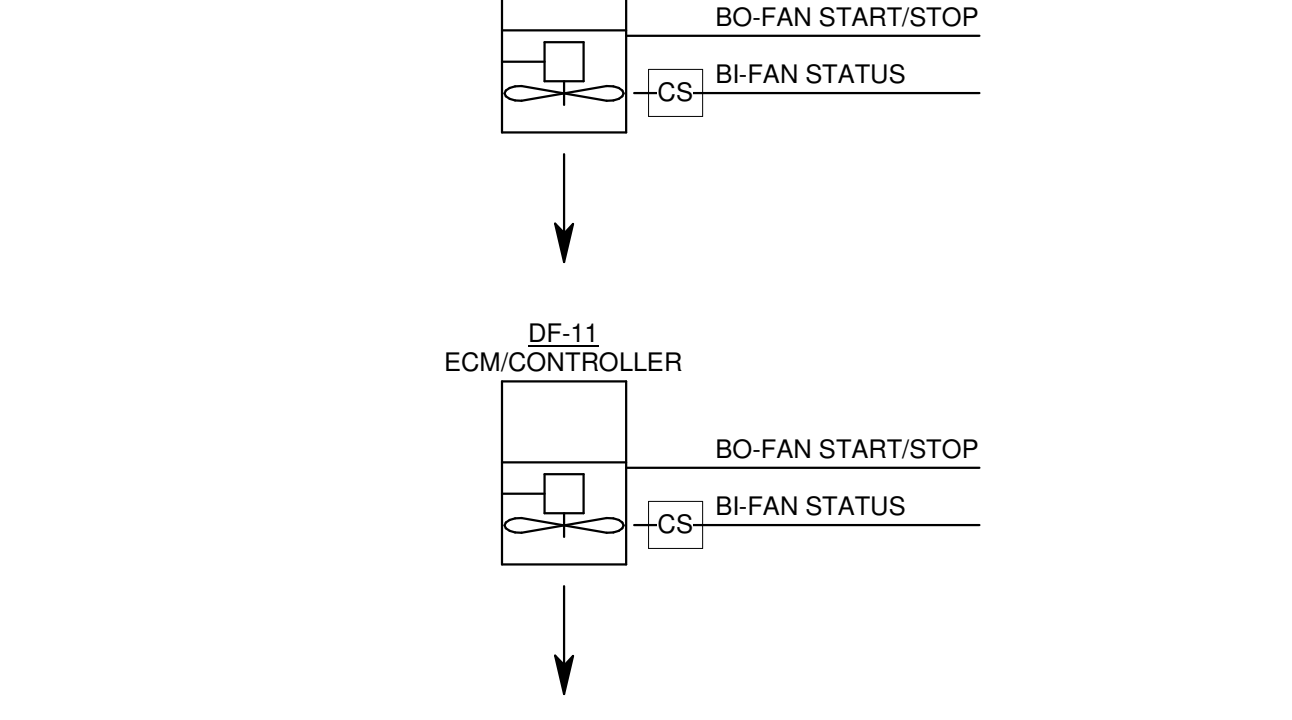
**11 DESTRATIFICATION FANS - ROOM 1218**  
 NO SCALE

SEQUENCE OF OPERATIONS:  
 INTEGRATE DDC WITH LOCAL FAN CONTROLLER PROVIDED BY FAN MANUFACTURER. EACH FAN CONTROLLER SHALL BE EQUIPPED WITH ON/OFF AUTO SWITCH, SPEED CONTROLLER, SAFETY DISCONNECT, AND PROPERLY SIZED FUSE BLOCK.  
 DDC SYSTEM SHALL ENABLE/DISABLE FAN AND MONITOR FAN STATUS THROUGH LOCAL FAN CONTROLLER. DDC SYSTEM SHALL SHUT DOWN FAN WHEN A POWER FAILURE OR FIRE ALARM OCCURS. DDC SHALL PROVIDE OCCUPIED/UNOCCUPIED SCHEDULE FOR THE GROUP OF FANS.



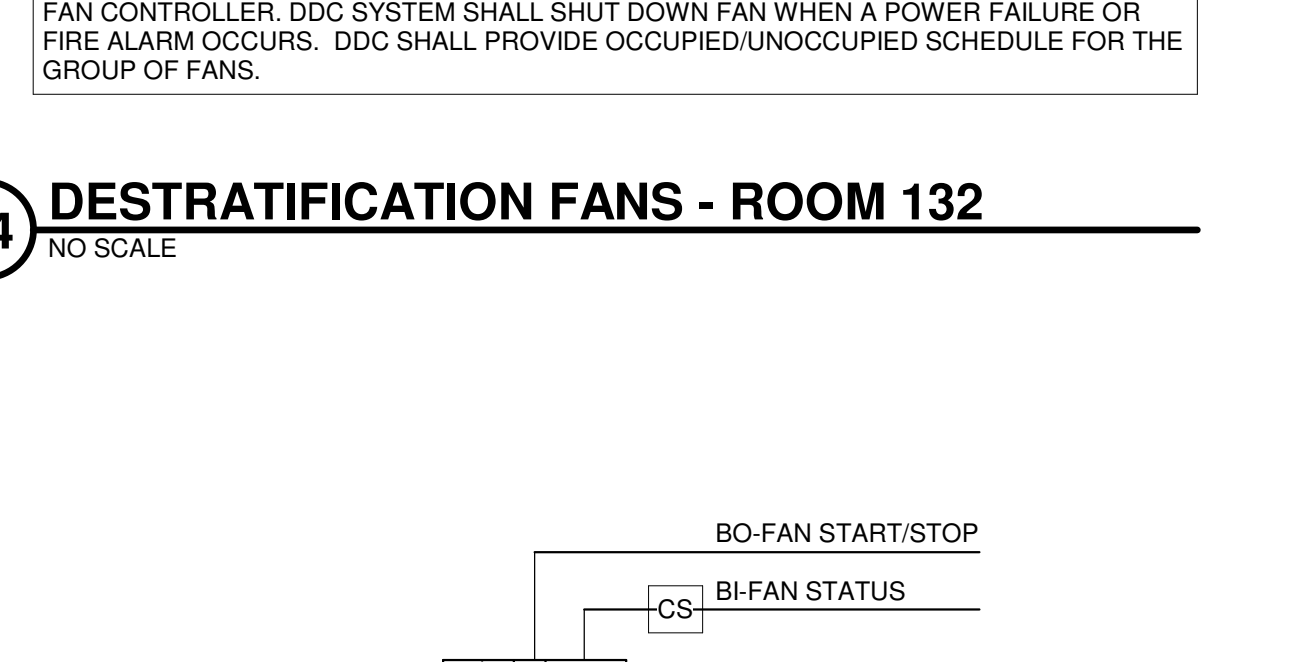
**14 DESTRATIFICATION FANS - ROOM 132**  
 NO SCALE

SEQUENCE OF OPERATIONS:  
 INTEGRATE DDC WITH LOCAL FAN CONTROLLER PROVIDED BY FAN MANUFACTURER. EACH FAN CONTROLLER SHALL BE EQUIPPED WITH ON/OFF AUTO SWITCH, SPEED CONTROLLER, SAFETY DISCONNECT, AND PROPERLY SIZED FUSE BLOCK.  
 DDC SYSTEM SHALL ENABLE/DISABLE FAN AND MONITOR FAN STATUS THROUGH LOCAL FAN CONTROLLER. DDC SYSTEM SHALL SHUT DOWN FAN WHEN A POWER FAILURE OR FIRE ALARM OCCURS. DDC SHALL PROVIDE OCCUPIED/UNOCCUPIED SCHEDULE FOR THE GROUP OF FANS.



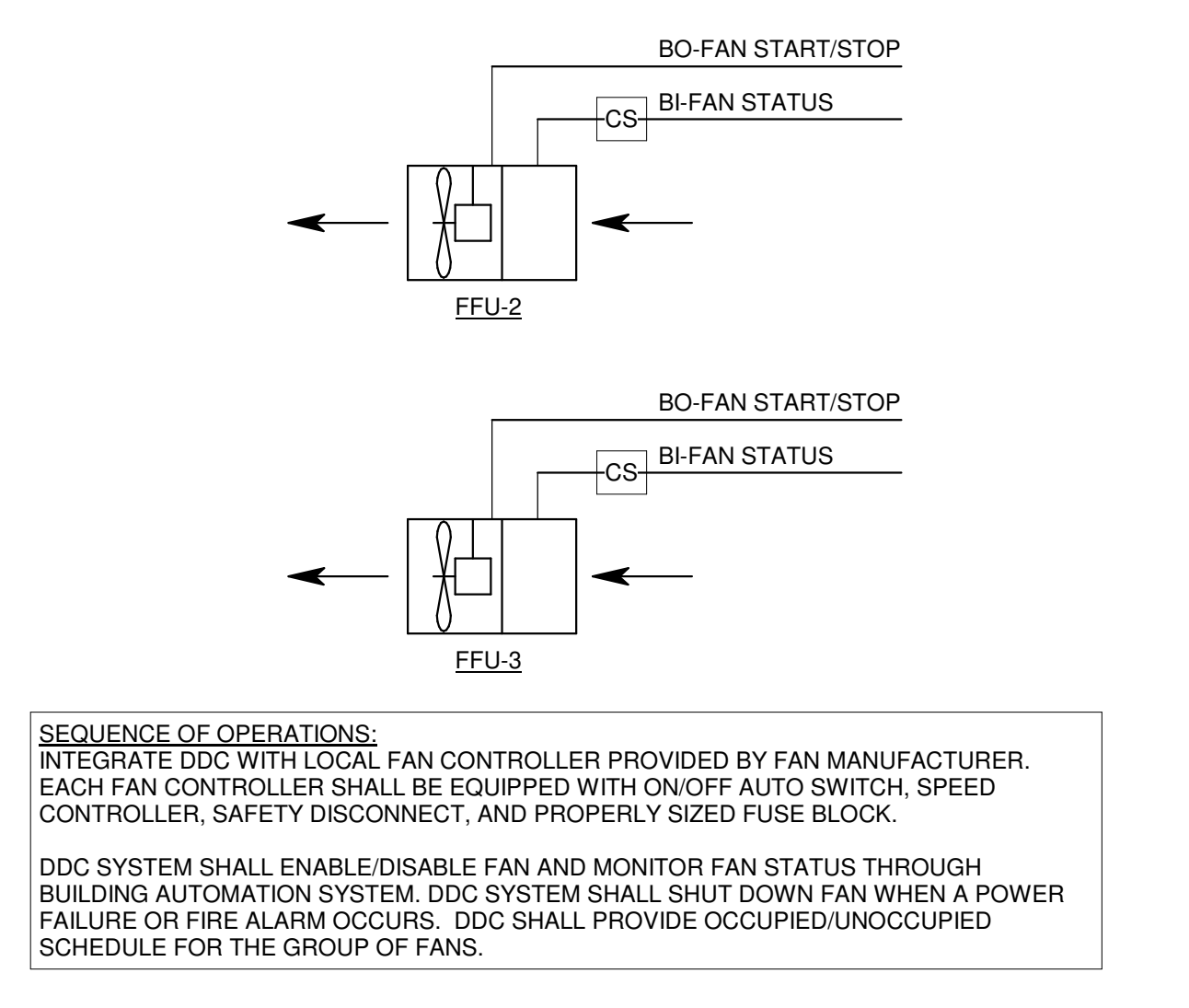
**14 DESTRATIFICATION FANS - ROOM 132**  
 NO SCALE

SEQUENCE OF OPERATIONS:  
 INTEGRATE DDC WITH LOCAL FAN CONTROLLER PROVIDED BY FAN MANUFACTURER. EACH FAN CONTROLLER SHALL BE EQUIPPED WITH ON/OFF AUTO SWITCH, SPEED CONTROLLER, SAFETY DISCONNECT, AND PROPERLY SIZED FUSE BLOCK.  
 DDC SYSTEM SHALL ENABLE/DISABLE FAN AND MONITOR FAN STATUS THROUGH LOCAL FAN CONTROLLER. DDC SYSTEM SHALL SHUT DOWN FAN WHEN A POWER FAILURE OR FIRE ALARM OCCURS. DDC SHALL PROVIDE OCCUPIED/UNOCCUPIED SCHEDULE FOR THE GROUP OF FANS.



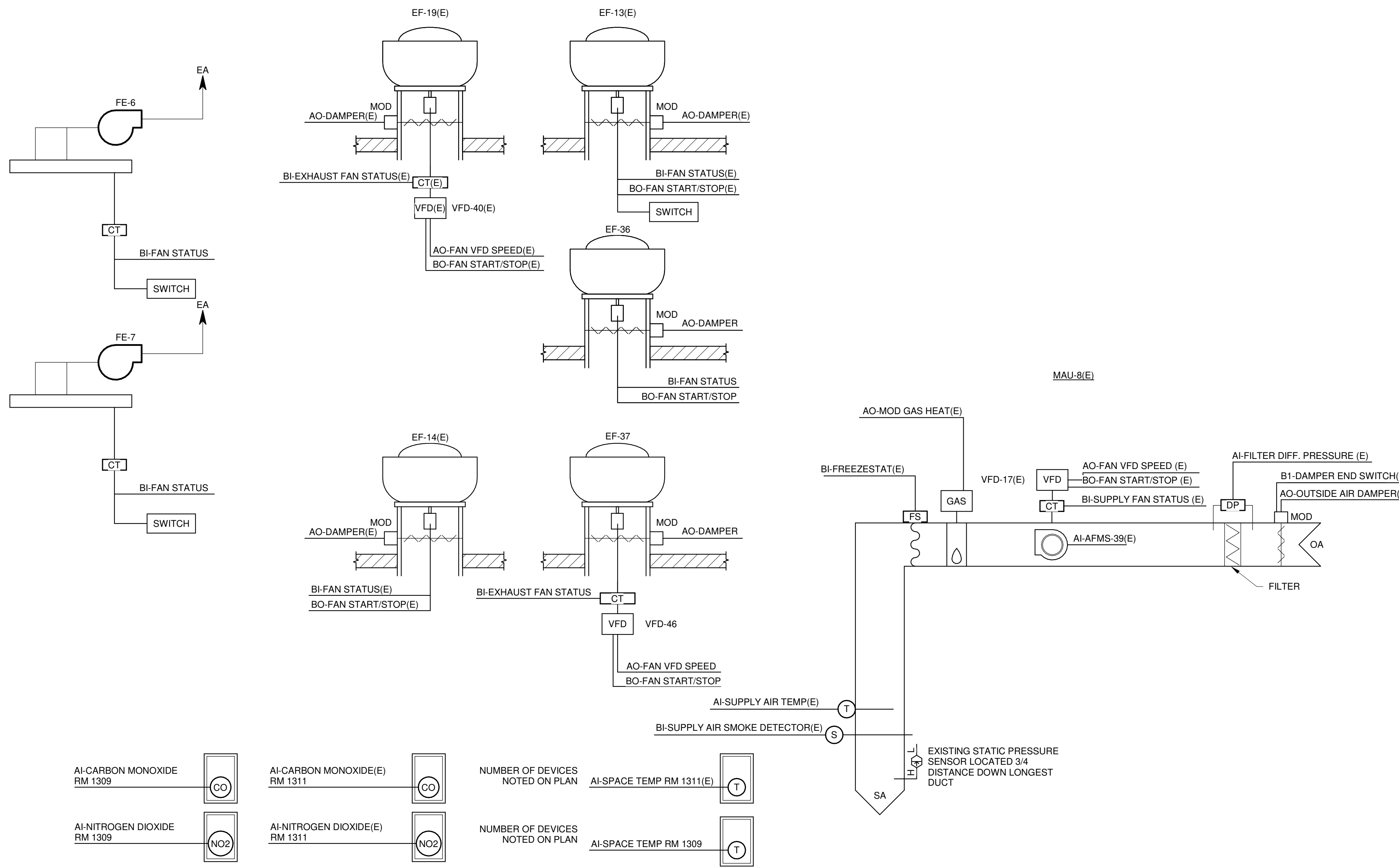
**15 FAN FILTER UNITS - 1309**  
 NO SCALE

SEQUENCE OF OPERATIONS:  
 INTEGRATE DDC WITH LOCAL FAN CONTROLLER PROVIDED BY FAN MANUFACTURER. EACH FAN CONTROLLER SHALL BE EQUIPPED WITH ON/OFF AUTO SWITCH, SPEED CONTROLLER, SAFETY DISCONNECT, AND PROPERLY SIZED FUSE BLOCK.  
 DDC SYSTEM SHALL ENABLE/DISABLE FAN AND MONITOR FAN STATUS THROUGH LOCAL BUILDING AUTOMATION SYSTEM. DDC SYSTEM SHALL SHUT DOWN FAN WHEN A POWER FAILURE OR FIRE ALARM OCCURS. DDC SHALL PROVIDE OCCUPIED/UNOCCUPIED SCHEDULE FOR THE GROUP OF FANS.



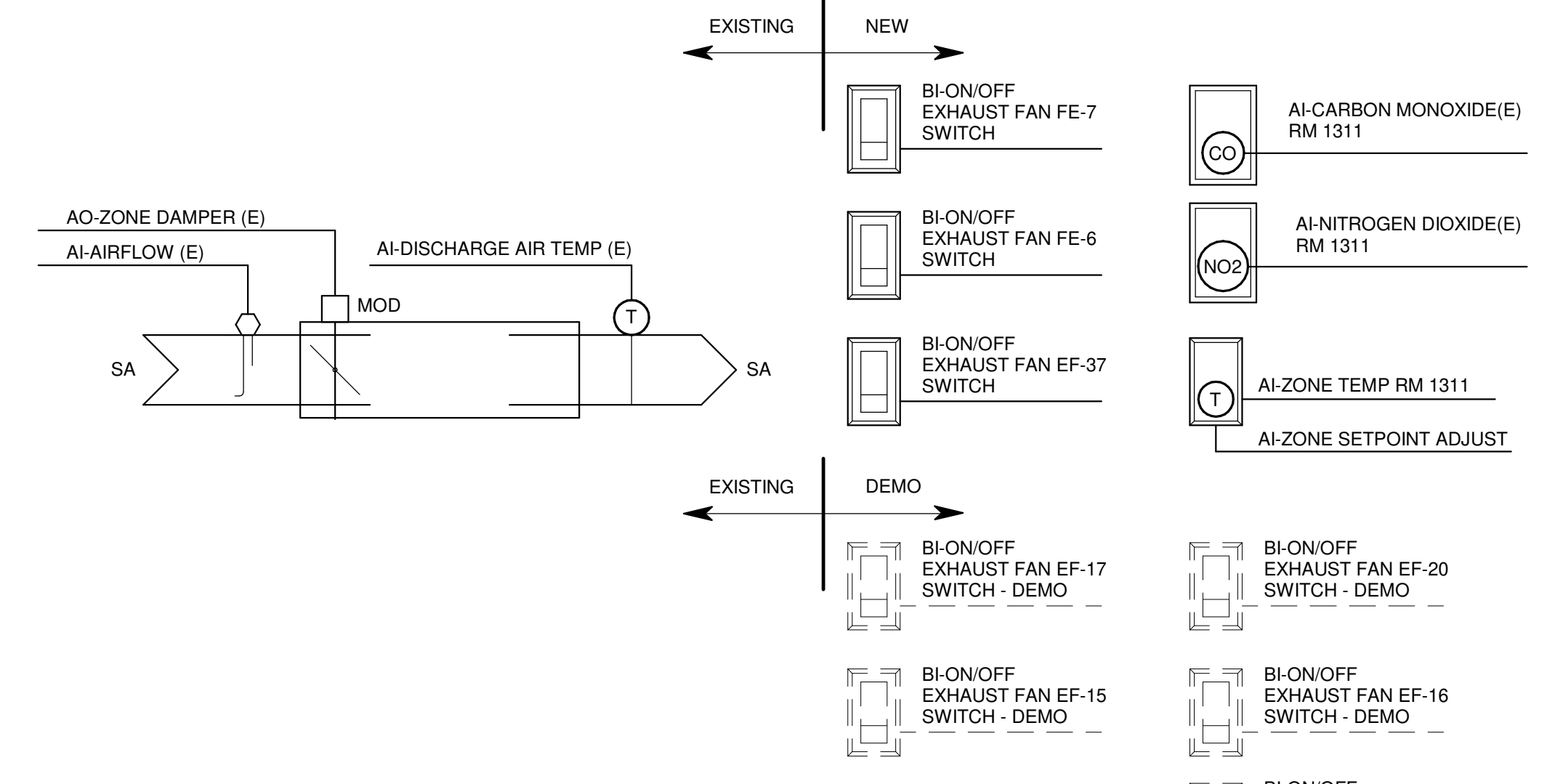
**15 FAN FILTER UNITS - 1309**  
 NO SCALE

SEQUENCE OF OPERATIONS:  
 INTEGRATE DDC WITH LOCAL FAN CONTROLLER PROVIDED BY FAN MANUFACTURER. EACH FAN CONTROLLER SHALL BE EQUIPPED WITH ON/OFF AUTO SWITCH, SPEED CONTROLLER, SAFETY DISCONNECT, AND PROPERLY SIZED FUSE BLOCK.  
 DDC SYSTEM SHALL ENABLE/DISABLE FAN AND MONITOR FAN STATUS THROUGH LOCAL BUILDING AUTOMATION SYSTEM. DDC SYSTEM SHALL SHUT DOWN FAN WHEN A POWER FAILURE OR FIRE ALARM OCCURS. DDC SHALL PROVIDE OCCUPIED/UNOCCUPIED SCHEDULE FOR THE GROUP OF FANS.



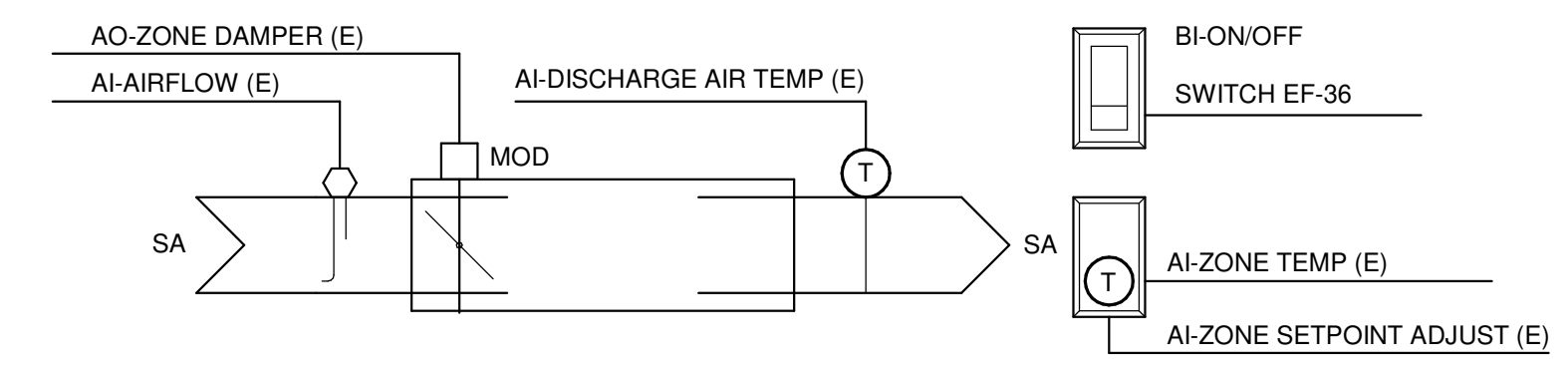
**SEQUENCE OF OPERATIONS:**  
**FAN CONTROL:** START/STOP: THE DDC SYSTEM SHALL START THE SUPPLY AND EXHAUST FANS VIA THEIR RESPECTIVE VFDs.  
**FAN CONTROL:** START/STOP: THE DDC SYSTEM SHALL START THE SUPPLY AND EXHAUST FANS VIA THEIR RESPECTIVE VFDs.  
**CURRENT STATUS SWITCH:** PROVIDE VFD MOTOR RUN STATUS, IN THIS SECTION FOR THE SUPPLY AND EXHAUST FANS.  
**VENTILATION AIR CONTROL:**  
 MAU-8(E) IS A 100% OUTSIDE AIR UNIT AND 100% EXHAUST.  
**NORMAL MODE CONTROL:**  
 THE SUPPLY AND EXHAUST FANS SHALL OPERATE AT A VARIABLE VOLUME DURING NORMAL MODE OPERATION. BASED ON NUMBER OF EXHAUST FANS THAT ARE ENERGIZED.  
 MAU-8(E) IS A 100% OUTSIDE AIR UNIT AND 100% EXHAUST.  
 EF-19(E) BASED ON SPACE TEMPERATURE AND/OR GAS DETECTION SYSTEM SERVING ROOM 1309.  
 EF-37 BASED ON SPACE TEMPERATURE AND/OR GAS DETECTION SYSTEM SERVING ROOM 1311.  
 FE-6 & FE-7 ARE ENERGIZED BY LOCAL VEHICLE REELS SERVING ROOM 1311.  
**OCCUPIED/UNOCCUPIED SCHEDULE FOR UNIT AND ASSOCIATED EXHAUST FAN SHALL BE SET AT THE DDC OPERATOR INTERFACE. WHEN INDEXED TO UNOCCUPIED THE UNIT AND EXHAUST FANS SHALL SHUTDOWN. PROVIDED INDEX DDC CONTROLLED HEATING AND VENTILATION ASSOCIATED WITH THIS MAKE-UP AIR UNIT TO MAINTAIN SETBACK AND SETUP TEMPERATURE SETPOINTS UNLESS OVERRIDDEN BY THE BUILDING AUTOMATION SYSTEM.**  
**PURGE MODE CONTROL:**  
 PURGE MODE SCHEDULE SHALL BE SET AT THE DDC OPERATOR INTERFACE.  
 WHEN THE GAS DETECTION IS ACTIVATED, THE SUPPLY AND EXHAUST FAN (EF-19(E)) OR EF-37 SHALL START FIRST AT MINIMUM SPEED AND INCREASE IT'S SPEED TO MAXIMUM EXHAUST FAN SPEED SETPOINT. SYSTEM SHALL CONTINUE TO RUN AT MAXIMUM FAN SPEED SETPOINT.  
**GAS DETECTION:** THE CONCENTRATION OF A DETECTED GAS IS ABOVE THE SETPOINT. SIGNAL ALARM THROUGH DDC WITH MANUAL RESET ON GAS DETECTION CONTROLLER. GAS DETECTION FAILURE: SIGNAL ALARM THROUGH DDC.  
**CARBON MONOXIDE (CO) SET POINT:** 35 PPM. (ADJUSTABLE)  
**NITROGEN DIOXIDE (NO2) SET POINT:** 1 PPM. (ADJUSTABLE)  
 THE SUPPLY AND EXHAUST FANS SHALL OPERATE AT A CONSTANT VOLUME DURING THE PURGE MODE OPERATION.  
**UNIT CYCLING TO MAINTAIN SETBACK/SETUP TEMPERATURES:** CYCLE THE MAKE-UP AIR UNIT ON TO MAINTAIN THE SETBACK AND SETUP TEMPERATURE ZONE SETPOINTS TO MAINTAIN 50 °F AND 85 °F RESPECTIVELY. IN THE HEATING MODE, THE OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL OPEN, AND HEATING DISCHARGE TEMPERATURE  
**CONTROL SHALL FUNCTION AS SPECIFIED. MINIMUM ON RUNTIME TIMER SHALL BE SET FOR 15 MINUTES (ADJ.) AND THE OFF TIMER FOR 30 MINUTES (ADJ.).**  
**SUPPLY FAN SPEED CONTROL:** THE PURPOSE OF THE SUPPLY FAN CONTROL IS TO MAINTAIN A MINIMUM STATIC PRESSURE IN THE SUPPLY DUCTWORK TO INSURE PROPER TERMINAL AIR BOX OPERATION. INSTALL A STATIC PRESSURE SENSING PROBE IN THE MAIN SUPPLY DUCT LOCATED AT APPROXIMATELY 1/4 OF THE WAY DOWN THE MAIN SUPPLY DUCT AS SHOWN ON THE PLANS AND PIPE TO THE DIFFERENTIAL PRESSURE TRANSMITTER THAT SHALL BE LOCATED IN THE UNIT TEMPERATURE CONTROL PANEL.  
 THE INPUTS TO THE DIFFERENTIAL PRESSURE TRANSMITTER SHALL BE THE STATIC PRESSURE INSIDE OF THE DUCT AND THE REFERENCE INPUT SHALL SENSE THE ACTUAL SPACE SERVED BY THE AIR SYSTEM LOCATED IN THE CEILING BELOW THE DUCT PROBE. THE DDC SYSTEM SHALL MODULATE THE SUPPLY FAN VFD TO MAINTAIN THE STATIC PRESSURE SETPOINT AS SENSED BY THE STATIC PRESSURE SENSOR. IF THE STATIC SENSORS DEVIATE BY MORE THAN 0.5 IN. W.C. (ADJ.), AN ALARM SHALL BE SENT THROUGH THE DDC SYSTEM. STATIC PRESSURE SETPOINT SHALL BE AS DESCRIBED IN THE STATIC PRESSURE RESET CONTROL BELOW.  
**EXHAUST FAN SPEED CONTROL:** THE PURPOSE OF THE EXHAUST FAN SPEED CONTROL IS TO MAINTAIN EXHAUST VENTILATION WITHIN THE SPACE IN DIFFERENT OPERATING MODES. THE EXHAUST FAN EF-19(E) AND EF-37 VFD SHALL MODULATE TO MAINTAIN A CONSTANT CFM OFFSET OF 500 (ADJ.) FROM THE ASSOCIATED SUPPLY AIR TERMINAL TO ACCOUNT FOR TOTAL EXHAUST FROM THE AREA IN WHICH IT SERVES WHILE MAINTAINING A SLIGHTLY NEGATIVE PRESSURE. TCG SHALL COORDINATE WITH THE BALANCING CONTRACTOR TO OPTIMIZE THIS SETTING.  
**FILTERS:** INSTALL A DIFFERENTIAL STATIC PRESSURE SENSOR ACROSS EACH FILTER BANK. ENSURE THAT THE STATIC PROBES DO NOT IMPEDE FILTER REMOVAL.  
 FOR FILTER BANK, PROVIDE AN ALARM TO THE OPERATOR INTERFACE WHEN THE DIFFERENTIAL STATIC PRESSURE EXCEEDS 0.5" W.C. (ADJ.).  
**DISCHARGE AIR TEMPERATURE CONTROL:** THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE A FIXED 65° F (ADJ.).  
**GAS HEATING COIL CONTROL:** MODULATE THE GAS HEATING COIL TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT.  
**SAFETIES:** GENERAL: ALL SAFETIES SHALL BE HARD WIRED TO THE SUPPLY AND EXHAUST FAN STARTERS OR VFD SAFETY CIRCUITS. STARTERS SHALL NOT FUNCTION IN THE "HAND" OR "AUTO" AND VFD'S SHALL BE DISABLED IF THEY ARE INDEXED TO THE "AUTO" OR "HAND" POSITION IN EITHER THE VFD.  
**FREEZE/STAT:** INSTALL AN ELECTRIC FREEZE/STAT TO SHUT DOWN THE UNIT (SEE UNIT SHUTDOWN FOR ADDITIONAL INFORMATION) IF THE TEMPERATURE UPSTREAM OF THE HEATING SECTION DROPS BELOW 35° F (ADJ.). THE ELECTRIC FREEZE/STAT SHALL ACT INDEPENDENTLY OF THE DDC SYSTEM VIA HARDWIRED INTERLOCK AND SHALL OVERRIDE  
 THE DDC SYSTEM CONTROL SIGNAL TO DEENERGIZE THE SUPPLY(S) AND EXHAUST FAN(S). THE OUTSIDE AIR DAMPER AND EXHAUST DAMPER SHALL CLOSE.  
 A FREEZE/STAT TRIP SHALL NOTIFY THE DDC SYSTEM THAT SHALL SEND AN ALARM TO THE OPERATOR INTERFACE.  
**FIRE ALARM SHUTDOWN:** UPON A LOCAL FIRE ALARM SYSTEM ALARM, THE FIRE ALARM CONTROL MODULE PROVIDED BY THE ELECTRICAL CONTRACTOR AT THE TEMPERATURE CONTROL PANEL SHALL CHANGE STATE OF ITS CONTACTS. THIS SHALL CAUSE THE UNIT TO BE SHUT DOWN (SEE UNIT SHUTDOWN FOR ADDITIONAL INFORMATION). AN AUXILIARY CONTACT SHALL BE PROVIDED TO NOTIFY THE DDC SYSTEM OF A LOCAL FIRE ALARM SHUTDOWN.  
**UNIT SHUTDOWN:** WHENEVER THE MAKEUP AIR UNIT IS INDEXED OFF, THE SUPPLY AND EXHAUST FAN(S) SHALL STOP. ON A FAILURE OF THE SUPPLY OR EXHAUST FAN(S), AN ALARM SHALL BE SENT THROUGH THE DDC SYSTEM. WHENEVER THE SUPPLY FAN(S) IS OFF FOR ANY REASON THE FOLLOWING SHALL OCCUR:  
 THE OUTSIDE AIR DAMPER AND EXHAUST DAMPER SHALL CLOSE.  
 THE GAS HEATING VALVE SHALL CLOSE.  
**UNOCCUPIED CONTROL:** GENERAL: OCCUPIED/UNOCCUPIED SCHEDULE SHALL BE SET AT THE DDC OPERATOR INTERFACE. WHEN INDEXED TO UNOCCUPIED THE UNIT SHALL SHUTDOWN.  
**EXHAUST FAN CONTROL (EF-19(E) AND EF-37):**  
**FAN CONTROL:** START/STOP: THE DDC SYSTEM SHALL START THE EXHAUST FANS VIA THEIR ASSOCIATED MOTORS.  
**CURRENT STATUS SWITCH:** PROVIDE CURRENT STATUS SWITCHES FOR EXHAUST FANS.  
**INTERLOCK:** THE EXHAUST FANS SHALL BE INTERLOCKED VIA THE DDC SYSTEM WITH MAU-8 AND SHALL RUN WHEN NORMAL MODE OPERATION.  
**PURGE MODE:** INTERLOCK EXHAUST FAN (EF-19(E) OR EF-37) TO OPERATE WHEN ASSOCIATED MAU-8 ARE IN THE NORMAL MODE.  
**EXHAUST FANS 19(E) & 37 REQUIRED MOTORIZED AUTOMATIC DAMPERS.** WHEN EXHAUST FANS EF-19(E) AND EF-37 ARE ENERGIZED, THE MOTORIZED AUTOMATIC DAMPER ASSOCIATED WITH THE FAN SHALL OPEN AND THE FAN MOTOR SHALL START. WHEN DE-ENERGIZED, THE FAN MOTOR SHALL STOP AND THE MOTORIZED AUTOMATIC DAMPER SHALL CLOSE. THE AUTOMATIC DAMPER SHALL BE HARD WIRE TO THE FAN POWER.  
**UNIT SHUTDOWN:** WHENEVER THE SYSTEM IS INDEXED OFF, THE EXHAUST FANS SHALL STOP. THE ASSOCIATED MAKE-UP AIR HANDLING UNIT WILL RETURN EITHER THE NORMAL MODE OR TO NEXT DDC SCHEDULED FOR OCCUPIED/UNOCCUPIED SETTING. ON A FAILURE OF THE EXHAUST FAN, AN ALARM SHALL BE SENT THROUGH THE DDC SYSTEM.  
 WHENEVER THE EXHAUST FAN OR EXHAUST FANS ARE OFF FOR ANY REASON THE FOLLOWING SHALL OCCUR: THE EXHAUST AIR DAMPERS SHALL STOP AND THE EXHAUST AIR DAMPERS SHALL CLOSE.

**5 EXISTING MAKE-UP AIR UNIT / EXHAUST FANS - MAU-8 / EF-13(E), 14(E), 19(E), 36 , 37 / FE-6 & FE-7**  
 NO SCALE



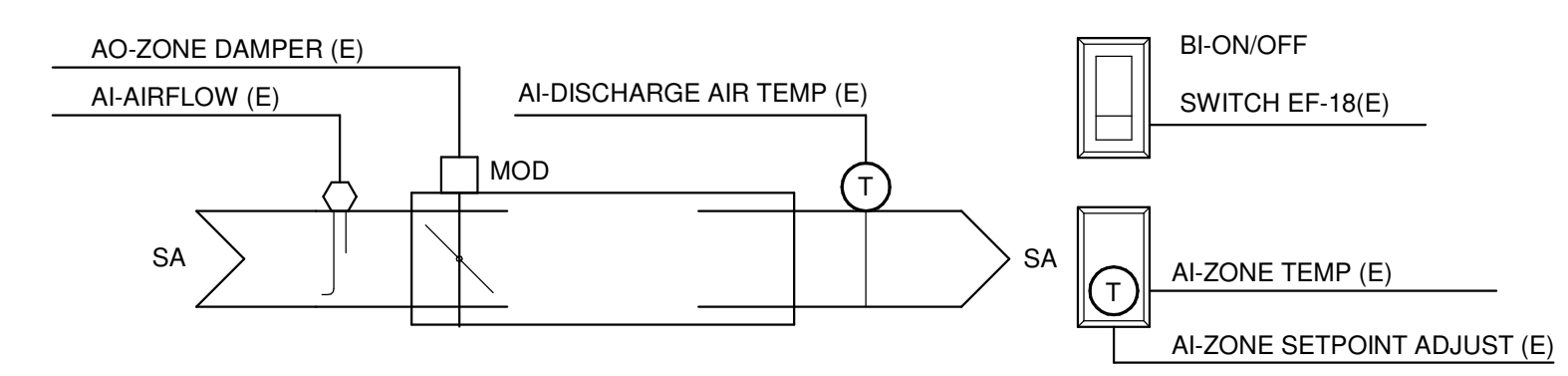
**SEQUENCE OF OPERATIONS:**  
**VAV TERMINAL UNIT CONTROL (AT-1(E)):**  
 REFER TO THE AIR TERMINAL SCHEDULES ON THE PLANS FOR EXHAUST FAN(S) INTERLOCK REQUIREMENTS, MINIMUM AND MAXIMUM FLOW RATES.  
 PROVIDE A DDC SPACE TEMPERATURE SENSOR TO CONTROL. IN SEQUENCE WITH THE EXHAUST FAN EF-37 INTERLOCK. WHEN SPACE TEMPERATURE IS BELOW SETPOINT, THE AIR TERMINAL DAMPER SHALL CLOSE TO THE COOLING MINIMUM FLOW POSITION TO MAINTAIN SPACE TEMPERATURE. THE REVERSE SHALL OCCUR WHEN SPACE TEMPERATURE IS BELOW SETPOINT AND EXHAUST FAN EF-37 SHALL BE ENERGIZED.  
**AIRFLOW MODE CONTROL:** THE ZONE AIR TERMINALS SHALL OPEN BETWEEN THE MINIMUM AND MAXIMUM OCCUPIED FLOW RATES AS SPECIFIED IN THE AIR TERMINAL SCHEDULES. ALL AIRFLOW SETPOINTS SHALL BE ADJUSTABLE.  
**DISCHARGE AIR TEMPERATURE SHALL BE MONITORED FOR AIR TERMINAL.**  
 THE BALANCER SHALL MEASURE THE EXHAUST FLOW AND PROVIDE THE MINIMUM AND MAXIMUM SPEEDS FOR MATCHING AIR TERMINAL TO THE CONTROL CONTRACTOR.

**1 EXISTING COOLING ONLY VARIABLE AIR VOLUME AIR TERMINAL - AT-1(E)**  
 NO SCALE



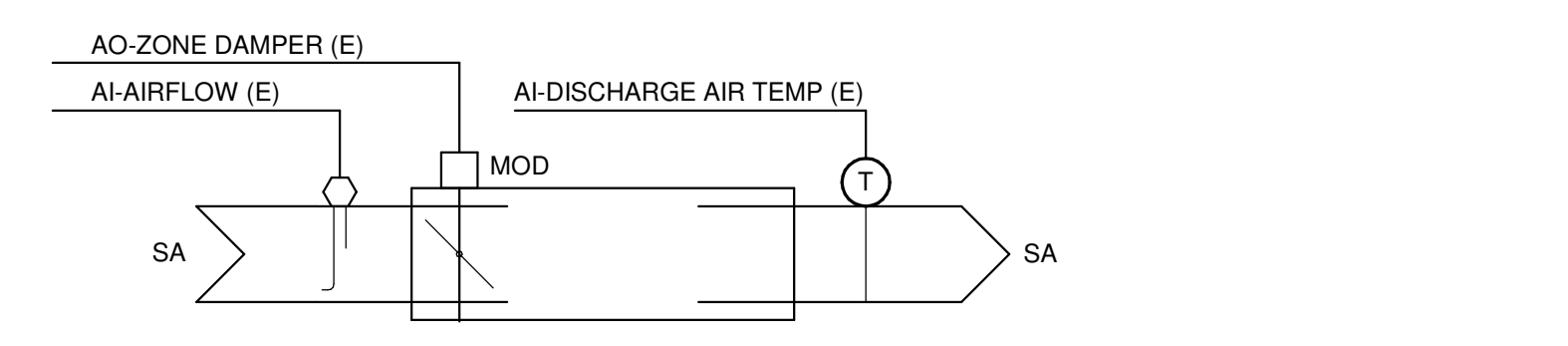
**SEQUENCE OF OPERATIONS:**  
**VAV TERMINAL UNIT CONTROL (AT-2(E)):**  
 REFER TO THE AIR TERMINAL SCHEDULES ON THE PLANS FOR EXHAUST FAN (EF-36) INTERLOCK REQUIREMENTS, MINIMUM AND MAXIMUM FLOW RATES. ALL AIRFLOW SETPOINTS SHALL BE ADJUSTABLE.  
 WHEN EXHAUST FAN (EF-36) IS ENERGIZED BY LOCAL TOGGLE SWITCH, THE AIR TERMINAL SHALL MODULATE FROM MINIMUM TO MAXIMUM FLOW RATES. AIR TERMINAL SUPPLY AIRFLOW SHALL TRACK WITH THE EXHAUST FAN ENERGIZED. THE REVERSE SHALL OCCUR WHEN SWITCHED OFF TO DE-ENERGIZE FAN.  
**DISCHARGE AIR TEMPERATURE SHALL BE MONITORED FOR SUPPLY AIR TERMINAL.**  
 THE BALANCER SHALL MEASURE THE EXHAUST FLOW AND PROVIDE THE MINIMUM AND MAXIMUM SPEEDS FOR MATCHING AIR TERMINAL TO THE CONTROL CONTRACTOR.

**2 EXISTING COOLING ONLY CONSTANT AIR VOLUME AIR TERMINAL - AT-2(E)**  
 NO SCALE



**SEQUENCE OF OPERATIONS:**  
**VAV TERMINAL UNIT CONTROL (AT-3(E)):**  
 REFER TO THE AIR TERMINAL SCHEDULES ON THE PLANS FOR EXHAUST FAN (EF-18(E)) INTERLOCK REQUIREMENTS, MINIMUM AND MAXIMUM FLOW RATES. ALL AIRFLOW SETPOINTS SHALL BE ADJUSTABLE.  
 WHEN EXHAUST FAN (EF-18(E)) IS ENERGIZED BY LOCAL TOGGLE SWITCH, THE AIR TERMINAL SHALL MODULATE FROM MINIMUM TO MAXIMUM FLOW RATES. AIR TERMINAL SUPPLY AIRFLOW SHALL TRACK WITH THE EXHAUST FAN ENERGIZED. THE REVERSE SHALL OCCUR WHEN SWITCHED OFF TO DE-ENERGIZE FAN.  
**DISCHARGE AIR TEMPERATURE SHALL BE MONITORED FOR SUPPLY AIR TERMINAL.**  
 THE BALANCER SHALL MEASURE THE EXHAUST FLOW AND PROVIDE THE MINIMUM AND MAXIMUM SPEEDS FOR MATCHING AIR TERMINAL TO THE CONTROL CONTRACTOR.

**3 EXISTING COOLING ONLY CONSTANT AIR VOLUME AIR TERMINAL - AT-3(E)**  
 NO SCALE



**SEQUENCE OF OPERATIONS:**  
**VAV TERMINAL UNIT CONTROL (AT-4(E)):**  
 REFER TO THE AIR TERMINAL SCHEDULES ON THE PLANS FOR EXHAUST FAN (EF-13(E)) INTERLOCK REQUIREMENTS, MINIMUM AND MAXIMUM FLOW RATES. ALL AIRFLOW SETPOINTS SHALL BE ADJUSTABLE.  
 WHEN EXHAUST FAN (EF-13(E)) IS ENERGIZED BY OCCUPANCY SCHEDULE, THE AIR TERMINAL SHALL MODULATE FROM MINIMUM TO MAXIMUM FLOW RATES. AIR TERMINAL SUPPLY AIRFLOW SHALL TRACK WITH THE EXHAUST FAN WHEN ENERGIZED.  
**DISCHARGE AIR TEMPERATURE SHALL BE MONITORED FOR SUPPLY AIR TERMINAL.**  
 THE BALANCER SHALL MEASURE THE EXHAUST FLOW AND PROVIDE THE MINIMUM AND MAXIMUM SPEEDS FOR MATCHING AIR TERMINAL TO THE CONTROL CONTRACTOR.

**4 EXISTING COOLING ONLY CONSTANT AIR VOLUME AIR TERMINAL - AT-4(E)**  
 NO SCALE

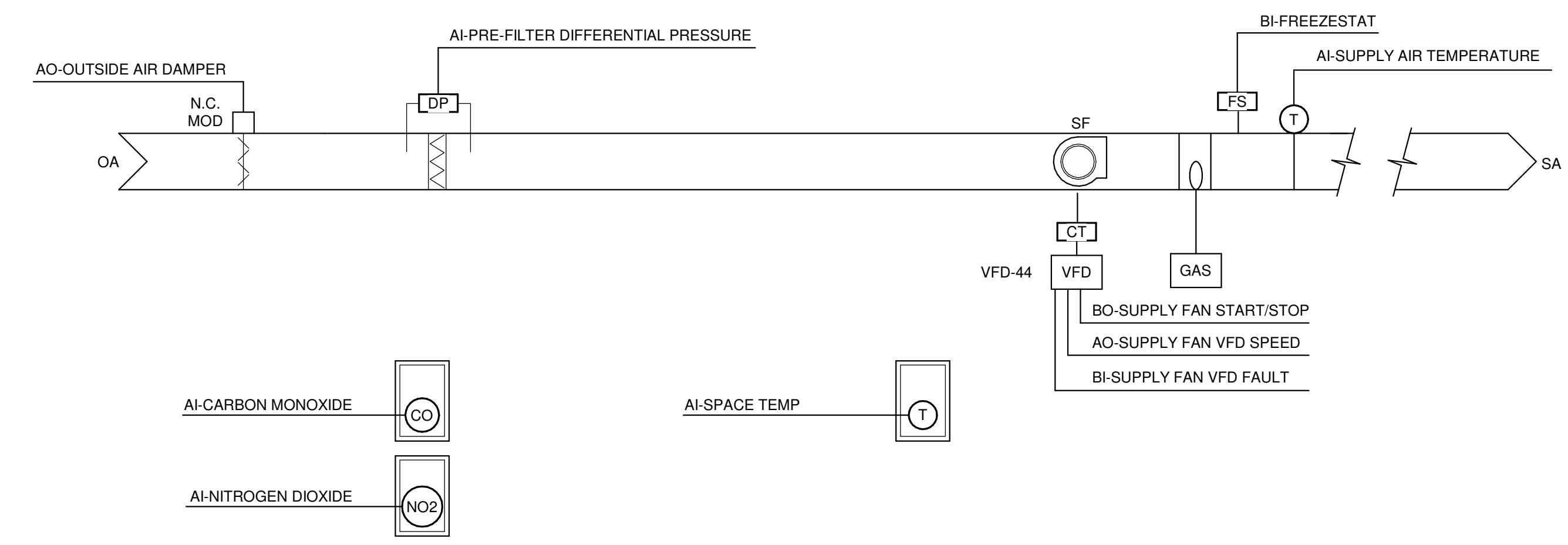
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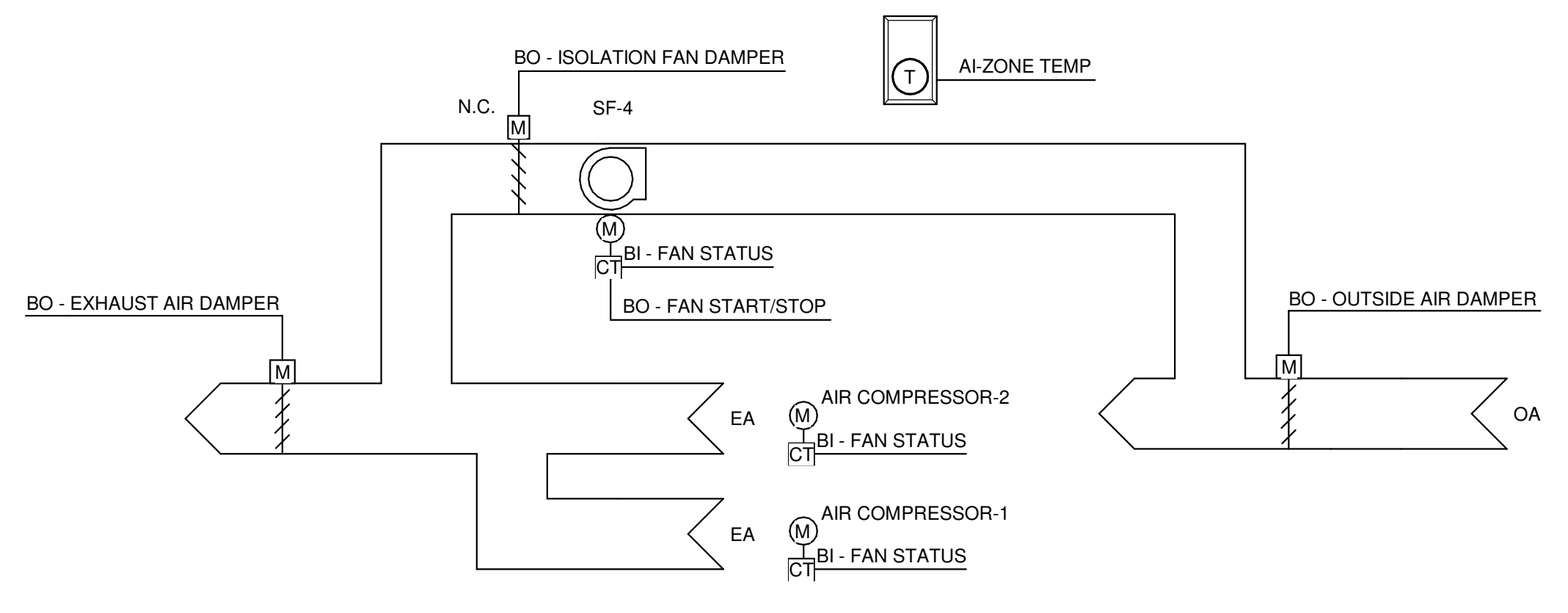
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 DRAWN BY: RRRW  
 CHECKED BY: SNW  
 50 NOT SCALE DRAWINGS

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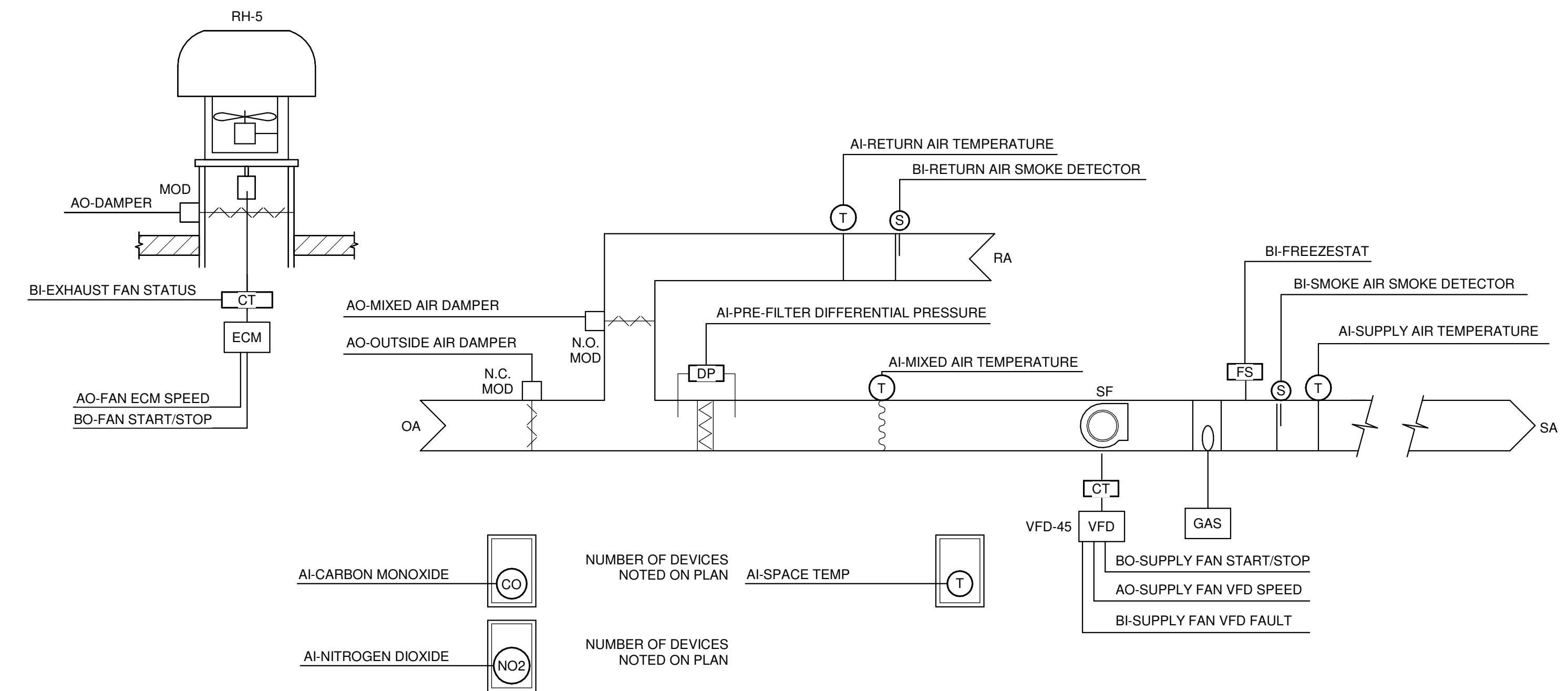
**SEQUENCE OF OPERATIONS:**  
FAN CONTROL: START/STOP: THE DDC SYSTEM SHALL START THE SUPPLY AND EXHAUST FANS VIA THEIR RESPECTIVE VFD OR ECM MOTOR.  
CURRENT STATUS SWITCH: PROVIDE VFD OR ECM MOTOR RUN STATUS, IN THIS SECTION FOR THE SUPPLY AND EXHAUST FANS.  
VENTILATION AIR CONTROL: MAU-11 IS A 100% OUTSIDE AIR UNIT AND 100% EXHAUST.  
NORMAL MODE CONTROL: THE SUPPLY AND EXHAUST FANS SHALL OPERATE AT A CONSTANT VOLUME DURING NORMAL MODE OPERATION BASED ON THE SPACE TEMPERATURE SETPOINT OR ACTIVATED BY THE GAS DETECTION PURGE MODE.  
MAU-11 IS A 100% OUTSIDE AIR UNIT AND 100% EXHAUST WITH EF-31.  
OCCUPIED/UNOCCUPIED SCHEDULE FOR UNIT AND ASSOCIATED EXHAUST FAN SHALL BE SET AT THE DDC OPERATOR INTERFACE. WHEN INDEXED TO UNOCCUPIED THE UNIT AND EXHAUST FANS SHALL SHUTDOWN. PROVIDED INDEX DDC CONTROLLED HEATING AND VENTILATION ASSOCIATED WITH THIS MAKE-UP AIR UNIT TO MAINTAIN SETBACK AND SETUP TEMPERATURE SETPOINTS UNLESS OVERRIDDEN BY THE BUILDING AUTOMATION SYSTEM.  
PURGE MODE CONTROL: PURGE MODE SCHEDULE SHALL BE SET AT THE DDC OPERATOR INTERFACE. WHEN THE GAS DETECTION IS ACTIVATED, THE SUPPLY AND EXHAUST FAN (EF-31) SHALL RUN AT MAXIMUM FAN SPEED SETPOINT.  
GAS DETECTION: THE CONCENTRATION OF A DETECTED GAS IS ABOVE THE SETPOINT. SIGNAL ALARM THROUGH DDC WITH MANUAL RESET ON GAS DETECTION CONTROLLER. GAS DETECTION FAILURE. SIGNAL ALARM THROUGH DDC.  
CARBON MONOXIDE (CO) SET POINT: 35 PPM. (ADJUSTABLE)  
NITROGEN DIOXIDE (NO2) SET POINT: 1 PPM. (ADJUSTABLE)  
THE SUPPLY AND EXHAUST FANS SHALL OPERATE AT A CONSTANT VOLUME DURING THE PURGE MODE OPERATION.  
UNIT CYCLING TO MAINTAIN SETBACK/SETUP TEMPERATURES: CYCLE THE MAKE-UP AIR UNIT ON TO MAINTAIN THE SETBACK AND SETUP TEMPERATURE ZONE SETPOINTS TO MAINTAIN 50° F AND 85° F RESPECTIVELY. IN THE HEATING MODE, THE OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL OPEN, AND HEATING DISCHARGE TEMPERATURE CONTROL SHALL FUNCTION AS SPECIFIED. MINIMUM ON RUNTIME TIMER SHALL BE SET FOR 15 MINUTES (ADJ.) AND THE OFF TIMER FOR 30 MINUTES (ADJ.).  
THE AREA IN WHICH IT SERVES SHALL MAINTAIN A SLIGHTLY NEGATIVE PRESSURE TO ADJACENT PARTS AREA. TCC SHALL COORDINATE WITH THE BALANCING CONTRACTOR TO OPTIMIZE THIS SETTING.  
FILTERS: INSTALL A DIFFERENTIAL STATIC PRESSURE SENSOR ACROSS EACH FILTER BANK. ENSURE THAT THE STATIC PROBES DO NOT IMPEDE FILTER REMOVAL.  
FOR FILTER BANK, PROVIDE AN ALARM TO THE OPERATOR INTERFACE WHEN THE DIFFERENTIAL STATIC PRESSURE EXCEEDS 0.5" W.C. (ADJ.).  
DISCHARGE AIR TEMPERATURE SETPOINT RESET FROM ZONE TEMPERATURE FOR THE HEATING AND ECONOMIZER MODES. RESET THE DISCHARGE AIR TEMPERATURE SETPOINT BASED ON THE ZONE TEMPERATURE BETWEEN 53° F (ADJ.) AND 85° F (ADJ.) TO MAINTAIN A ZONE HEATING AND ECONOMIZER SETPOINT OF 68° F (ADJ.).  
DISCHARGE AIR TEMPERATURE CONTROL: THE HEATING COIL AND MIXED AIR DAMPERS SHALL BE CONTROLLED IN SEQUENCE TO MAINTAIN THE HEATING AND ECONOMIZER DISCHARGE AIR TEMPERATURE. AT NO TIME SHALL THE HEATING COIL BE OPERATING WHEN THE MIXED AIR DAMPERS ARE ECONOMIZING. WHENEVER THE DISCHARGE AIR TEMPERATURE IS ABOVE THE HEATING AND ECONOMIZER SETPOINT, THE FOLLOWING SHALL OCCUR IN SEQUENCE:  
THE GAS HEATING COIL CONTROL SHALL MODULATE CLOSED AS SEQUENCED BELOW. WHEN GAS HEATING IS COMPLETELY OFF AND THE ECONOMIZER SEQUENCE IS ENABLED, THE ECONOMIZER OUTSIDE AIR DAMPER, RETURN AIR DAMPER, AND RELIEF AIR DAMPER SHALL BE MODULATED TOGETHER TO MAINTAIN THE HEATING AND ECONOMIZER DISCHARGE AIR TEMPERATURE SETPOINT. WHEN THE DISCHARGE AIR SETPOINT IS BELOW THE REVERSE SHALL OCCUR.  
GAS HEATING COIL CONTROL: MODULATE THE GAS HEATING COIL TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT.  
ECONOMIZER CONTROL: WHEN THE ECONOMIZER SEQUENCE IS ENABLED BY THE SWITCHOVER SEQUENCE BELOW, THE OUTSIDE AIR DAMPER AND RETURN DAMPER SHALL MODULATE TO PROVIDE OUTSIDE AIR TO BE USED FOR FREE COOLING AS DESCRIBED IN THE MIXED AIR CONTROL. THE EXHAUST RELIEF HOOD FAN SHALL SLOWLY RAMP UP VIA ECM MOTOR TO MODULATE EXHAUST AIRFLOW WITH OUTSIDE AIR DAMPER POSITION. TCC AND TAB CONTRACTOR TO SETUP THE EXHAUST RELIEF HOOD TO BE SLIGHTLY NEGATIVE SPACE WITH MODULATING OF THE OUTSIDE DAMPER POSITION.  
FLOATING DRY BULB ECONOMIZER SWITCHOVER: THE ECONOMIZER SEQUENCE SHALL BE ENABLED WHENEVER THE OUTSIDE AIR TEMPERATURE IS MORE THAN 4° F (ADJ.) COOLER THAN THE RETURN AIR TEMPERATURE.  
FREEZESTAT: INSTALL AN ELECTRIC FREEZESTAT TO SHUT DOWN THE UNIT (SEE UNIT SHUTDOWN FOR ADDITIONAL INFORMATION) IF THE TEMPERATURE UPSTREAM OF THE HEATING SECTION DROPS BELOW 35° F (ADJ.). THE ELECTRIC FREEZESTAT SHALL ACT INDEPENDENTLY OF THE DDC SYSTEM VIA HARDWARE INTERLOCK AND SHALL OVERRIDE THE DDC SYSTEM CONTROL SIGNAL TO DEENERGIZE THE SUPPLY FAN. THE OUTSIDE AIR AND RELIEF AIR DAMPER SHALL CLOSE.  
A FREEZESTAT TRIP SHALL NOTIFY THE DDC SYSTEM THAT SHALL SEND AN ALARM TO THE OPERATOR INTERFACE.  
FIRE ALARM SHUTDOWN: UPON A LOCAL FIRE ALARM SYSTEM ALARM, THE FIRE ALARM CONTROL MODULE PROVIDED BY THE ELECTRICAL CONTRACTOR AT THE TEMPERATURE CONTROL PANEL SHALL CHANGE STATE OF ITS CONTACTS. THIS SHALL CAUSE THE UNIT TO BE SHUT DOWN (SEE UNIT SHUTDOWN FOR ADDITIONAL INFORMATION). AN AUXILIARY CONTACT SHALL BE PROVIDED TO NOTIFY THE DDC SYSTEM OF A LOCAL FIRE ALARM SHUTDOWN.  
UNIT SHUTDOWN: WHENEVER THE MAKEUP AIR UNIT IS INDEXED OFF, THE SUPPLY FAN SHALL STOP. ON A FAILURE OF THE SUPPLY OR EXHAUST FANS, AN ALARM SHALL BE SENT THROUGH THE DDC SYSTEM. WHENEVER THE SUPPLY FAN IS OFF FOR ANY REASON THE FOLLOWING SHALL OCCUR:  
THE OUTSIDE AIR DAMPER AND EXHAUST DAMPER SHALL CLOSE.  
THE GAS HEATING VALVE SHALL CLOSE.  
UNOCCUPIED CONTROL: GENERAL: OCCUPIED/UNOCCUPIED SCHEDULE SHALL BE SET AT THE DDC OPERATOR INTERFACE. WHEN INDEXED TO UNOCCUPIED THE UNIT SHALL SHUTDOWN.  
EXHAUST FAN CONTROL (EF-31):  
FAN CONTROL: START/STOP: THE DDC SYSTEM SHALL START THE EXHAUST FAN VIA THEIR ASSOCIATED MOTOR.  
CURRENT STATUS SWITCH: PROVIDE CURRENT STATUS SWITCHES FOR EXHAUST FAN.  
INTERLOCK: THE EXHAUST FAN SHALL BE INTERLOCKED VIA THE DDC SYSTEM WITH MAU-11 AND SHALL RUN WHEN NORMAL MODE OPERATION.  
PURGE MODE: INTERLOCK EXHAUST FAN (EF-31) TO OPERATE WHEN ASSOCIATED MAU-11 IS IN THE PURGE MODE.  
WHEN EXHAUST FAN EF-31 IS ENERGIZED, THE MOTORIZED AUTOMATIC DAMPER ASSOCIATED WITH THE FAN SHALL OPEN AND THE FAN MOTOR SHALL START. WHEN DE-ENERGIZED, THE FAN MOTOR SHALL STOP AND THE MOTORIZED AUTOMATIC DAMPER SHALL CLOSE. THE AUTOMATIC DAMPER SHALL BE HARD WIRE TO THE FAN POWER.  
UNIT SHUTDOWN: WHENEVER THE SYSTEM IS INDEXED OFF, THE EXHAUST FAN SHALL STOP. THE ASSOCIATED MAKE-UP AIR HANDLING UNIT WILL RETURN EITHER THE NORMAL MODE OR TO NEXT DDC SCHEDULED FOR OCCUPIED/UNOCCUPIED SETTING. ON A FAILURE OF THE EXHAUST FAN, AN ALARM SHALL BE SENT THROUGH THE DDC SYSTEM.  
WHENEVER THE EXHAUST FAN IS OFF FOR ANY REASON THE FOLLOWING SHALL OCCUR: THE EXHAUST FAN SHALL STOP AND THE EXHAUST AIR DAMPER SHALL CLOSE.

**1 CONSTANT VOLUME MAU-11**  
NO SCALE



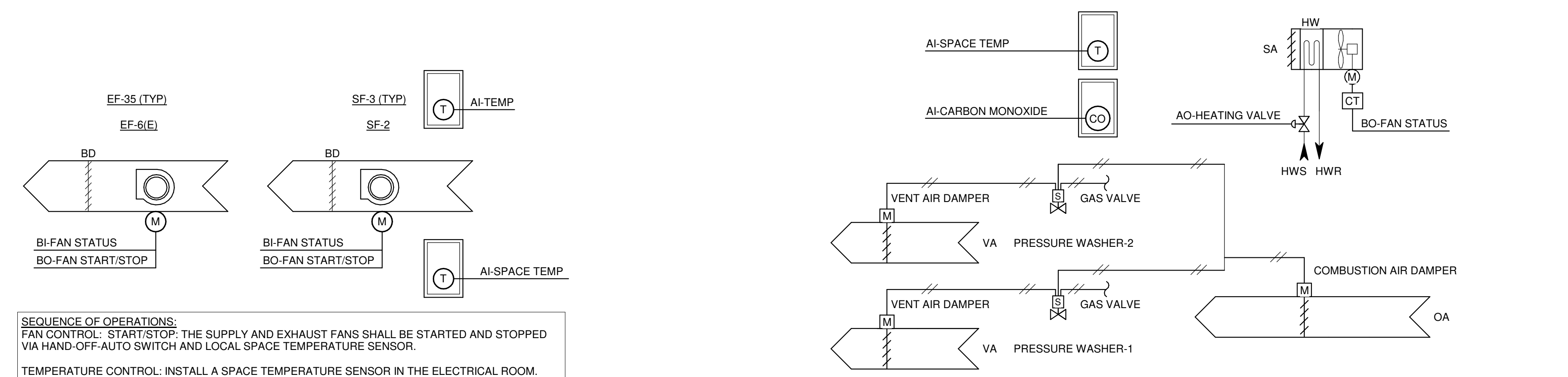
**SEQUENCE OF OPERATION:**  
SUPPLY FAN CONTROL: START/STOP: THE FAN (SF-4) SHALL BE STARTED AND STOPPED VIA HAND-OFF-AUTO SWITCH AND LOCAL THERMOSTAT.  
TEMPERATURE CONTROL: THE SUPPLY FAN (SF-4) SHALL OPERATE WHEN THE ROOM TEMPERATURE IS BELOW SET POINT.  
SUPPLY FAN (SF-4) REQUIRED MOTORIZED AUTOMATIC DAMPER: WHEN SUPPLY FAN IS ENERGIZED, THE MOTORIZED AUTOMATIC DAMPER ASSOCIATED WITH THE FAN SHALL OPEN AND THE FAN MOTOR SHALL START. WHEN DE-ENERGIZED, THE SUPPLY FAN MOTOR SHALL STOP AND THE MOTORIZED AUTOMATIC DAMPER SHALL CLOSE. THE AUTOMATIC DAMPER SHALL BE HARD WIRE TO THE FAN POWER.  
AIR COMPRESSOR VENTILATION: OUTSIDE AND EXHAUST AIR DAMPERS SHALL OPEN WITH ENERGIZING OF AIR COMPRESSOR(S) VIA THE DDC SYSTEM.  
CURRENT STATUS SWITCH: PROVIDE CURRENT STATUS SWITCHES FOR EACH AIR COMPRESSOR. INTERLOCK: THE WHEN EITHER AIR COMPRESSORS ARE ENERGIZED, THE MOTORIZED AUTOMATIC DAMPER ASSOCIATED WITH THE OUTSIDE AND EXHAUST AIR SHALL OPEN. WHEN AIR COMPRESSORS ARE DE-ENERGIZED, THE MOTORIZED AUTOMATIC DAMPERS SHALL CLOSE.  
UNIT SHUTDOWN: WHENEVER THE AIR COMPRESSORS ARE INDEXED OFF, BOTH DAMPERS SHALL CLOSE.

**3 WATER/COMPRESSOR ROOM - 2305**  
NO SCALE



**SEQUENCE OF OPERATIONS:**  
FAN CONTROL: START/STOP: THE DDC SYSTEM SHALL START THE SUPPLY FAN VIA THEIR RESPECTIVE VFD.  
CURRENT STATUS SWITCH: PROVIDE VFD MOTOR RUN STATUS, IN THIS SECTION FOR THE SUPPLY FAN.  
VENTILATION AIR CONTROL: MAU-12 IS A MINIMUM 10% OUTSIDE AIR UNIT. EXHAUST RELIEF HOOD IS 100% WHEN IN ECONOMIZER OR GAS PURGE DETECTION MODE.  
NORMAL MODE CONTROL: THE SUPPLY FAN SHALL OPERATE AT A VARIABLE VOLUME DURING NORMAL MODE OPERATION. BASED ON SPACE TEMPERATURE OR AT CONSTANT VOLUME FOR GAS DETECTION PURGE MODE.  
OCCUPIED/UNOCCUPIED SCHEDULE FOR UNIT SHALL BE SET AT THE DDC OPERATOR INTERFACE. WHEN INDEXED TO UNOCCUPIED THE UNIT SHALL SHUTDOWN. PROVIDED INDEX DDC CONTROLLED HEATING AND VENTILATION ASSOCIATED WITH THIS MAKE-UP AIR UNIT TO MAINTAIN SETBACK AND SETUP TEMPERATURE SETPOINTS UNLESS OVERRIDDEN BY THE BUILDING AUTOMATION SYSTEM.  
PURGE MODE CONTROL: PURGE MODE SCHEDULE SHALL BE SET AT THE DDC OPERATOR INTERFACE. WHEN THE GAS DETECTION IS ACTIVATED, THE SUPPLY FAN SHALL RAMP AT MINIMUM SPEED AND INCREASE ITS SPEED TO MAXIMUM SPEED SETPOINT. SYSTEM SHALL CONTINUE TO RUN AT MAXIMUM FAN SPEED SETPOINT.  
GAS DETECTION: THE CONCENTRATION OF A DETECTED GAS IS ABOVE THE SETPOINT. SIGNAL ALARM THROUGH DDC WITH MANUAL RESET ON GAS DETECTION CONTROLLER. GAS DETECTION FAILURE. SIGNAL ALARM THROUGH DDC.  
CARBON MONOXIDE (CO) SET POINT: 35 PPM. (ADJUSTABLE)  
NITROGEN DIOXIDE (NO2) SET POINT: 1 PPM. (ADJUSTABLE)  
THE SUPPLY FAN SHALL OPERATE AT A 100% OUTSIDE AIR AND 100% EXHAUST VIA EXHAUST RELIEF HOOD FAN DURING THE PURGE MODE OPERATION.  
UNIT CYCLING TO MAINTAIN SETBACK/SETUP TEMPERATURES: CYCLE THE MAKE-UP AIR UNIT ON TO MAINTAIN THE SETBACK AND SETUP TEMPERATURE ZONE SETPOINTS TO MAINTAIN 50° F AND 85° F RESPECTIVELY. IN THE HEATING MODE, THE OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL OPEN, AND HEATING DISCHARGE TEMPERATURE CONTROL SHALL FUNCTION AS SPECIFIED. MINIMUM ON RUNTIME TIMER SHALL BE SET FOR 15 MINUTES (ADJ.) AND THE OFF TIMER FOR 30 MINUTES (ADJ.).  
THE AREA IN WHICH IT SERVES SHALL MAINTAIN SLIGHTLY NEUTRAL PRESSURE TO THE SERVICE BAY. TCC SHALL COORDINATE WITH THE BALANCING CONTRACTOR TO OPTIMIZE THIS SETTING.  
FILTERS: INSTALL A DIFFERENTIAL STATIC PRESSURE SENSOR ACROSS EACH FILTER BANK. ENSURE THAT THE STATIC PROBES DO NOT IMPEDE FILTER REMOVAL.  
FOR FILTER BANK, PROVIDE AN ALARM TO THE OPERATOR INTERFACE WHEN THE DIFFERENTIAL STATIC PRESSURE EXCEEDS 0.5" W.C. (ADJ.).  
DISCHARGE AIR TEMPERATURE SETPOINT RESET FROM ZONE TEMPERATURE FOR THE HEATING AND ECONOMIZER MODES. RESET THE DISCHARGE AIR TEMPERATURE SETPOINT BASED ON THE ZONE TEMPERATURE BETWEEN 53° F (ADJ.) AND 85° F (ADJ.) TO MAINTAIN A ZONE HEATING AND ECONOMIZER SETPOINT OF 68° F (ADJ.).  
DISCHARGE AIR TEMPERATURE CONTROL: THE HEATING COIL AND MIXED AIR DAMPERS SHALL BE CONTROLLED IN SEQUENCE TO MAINTAIN THE HEATING AND ECONOMIZER DISCHARGE AIR TEMPERATURE. AT NO TIME SHALL THE HEATING COIL BE OPERATING WHEN THE MIXED AIR DAMPERS ARE ECONOMIZING. WHENEVER THE DISCHARGE AIR TEMPERATURE IS ABOVE THE HEATING AND ECONOMIZER SETPOINT, THE FOLLOWING SHALL OCCUR IN SEQUENCE:  
THE GAS HEATING COIL CONTROL SHALL MODULATE CLOSED AS SEQUENCED BELOW. WHEN GAS HEATING IS COMPLETELY OFF AND THE ECONOMIZER SEQUENCE IS ENABLED, THE ECONOMIZER OUTSIDE AIR DAMPER, RETURN AIR DAMPER, AND RELIEF AIR DAMPER SHALL BE MODULATED TOGETHER TO MAINTAIN THE HEATING AND ECONOMIZER DISCHARGE AIR TEMPERATURE SETPOINT. WHEN THE DISCHARGE AIR SETPOINT IS BELOW THE REVERSE SHALL OCCUR.  
GAS HEATING COIL CONTROL: MODULATE THE GAS HEATING COIL TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT.  
ECONOMIZER CONTROL: WHEN THE ECONOMIZER SEQUENCE IS ENABLED BY THE SWITCHOVER SEQUENCE BELOW, THE OUTSIDE AIR DAMPER AND RETURN DAMPER SHALL MODULATE TO PROVIDE OUTSIDE AIR TO BE USED FOR FREE COOLING AS DESCRIBED IN THE MIXED AIR CONTROL. THE EXHAUST RELIEF HOOD FAN SHALL SLOWLY RAMP UP VIA ECM MOTOR TO MODULATE EXHAUST AIRFLOW WITH OUTSIDE AIR DAMPER POSITION. TCC AND TAB CONTRACTOR TO SETUP THE EXHAUST RELIEF HOOD TO BE SLIGHTLY NEGATIVE SPACE WITH MODULATING OF THE OUTSIDE DAMPER POSITION.  
FLOATING DRY BULB ECONOMIZER SWITCHOVER: THE ECONOMIZER SEQUENCE SHALL BE ENABLED WHENEVER THE OUTSIDE AIR TEMPERATURE IS MORE THAN 4° F (ADJ.) COOLER THAN THE RETURN AIR TEMPERATURE.  
FREEZESTAT: INSTALL AN ELECTRIC FREEZESTAT TO SHUT DOWN THE UNIT (SEE UNIT SHUTDOWN FOR ADDITIONAL INFORMATION) IF THE TEMPERATURE UPSTREAM OF THE HEATING SECTION DROPS BELOW 35° F (ADJ.). THE ELECTRIC FREEZESTAT SHALL ACT INDEPENDENTLY OF THE DDC SYSTEM VIA HARDWARE INTERLOCK AND SHALL OVERRIDE THE DDC SYSTEM CONTROL SIGNAL TO DEENERGIZE THE SUPPLY FAN. THE OUTSIDE AIR AND RELIEF AIR DAMPER SHALL CLOSE.  
A FREEZESTAT TRIP SHALL NOTIFY THE DDC SYSTEM THAT SHALL SEND AN ALARM TO THE OPERATOR INTERFACE.  
FIRE ALARM SHUTDOWN: UPON A LOCAL FIRE ALARM SYSTEM ALARM, THE FIRE ALARM CONTROL MODULE PROVIDED BY THE ELECTRICAL CONTRACTOR AT THE TEMPERATURE CONTROL PANEL SHALL CHANGE STATE OF ITS CONTACTS. THIS SHALL CAUSE THE UNIT TO BE SHUT DOWN (SEE UNIT SHUTDOWN FOR ADDITIONAL INFORMATION). AN AUXILIARY CONTACT SHALL BE PROVIDED TO NOTIFY THE DDC SYSTEM OF A LOCAL FIRE ALARM SHUTDOWN.  
UNIT SHUTDOWN: WHENEVER THE MAKEUP AIR UNIT IS INDEXED OFF, THE SUPPLY FAN SHALL STOP. ON A FAILURE OF THE SUPPLY FAN, AN ALARM SHALL BE SENT THROUGH THE DDC SYSTEM. WHENEVER THE SUPPLY FAN IS OFF FOR ANY REASON THE FOLLOWING SHALL OCCUR:  
THE OUTSIDE AIR DAMPER AND EXHAUST DAMPER SHALL CLOSE.  
THE GAS HEATING VALVE SHALL CLOSE.  
UNOCCUPIED CONTROL: GENERAL: OCCUPIED/UNOCCUPIED SCHEDULE SHALL BE SET AT THE DDC OPERATOR INTERFACE. WHEN INDEXED TO UNOCCUPIED THE UNIT SHALL SHUTDOWN.

**2 VARIABLE VOLUME MAU-12**  
NO SCALE



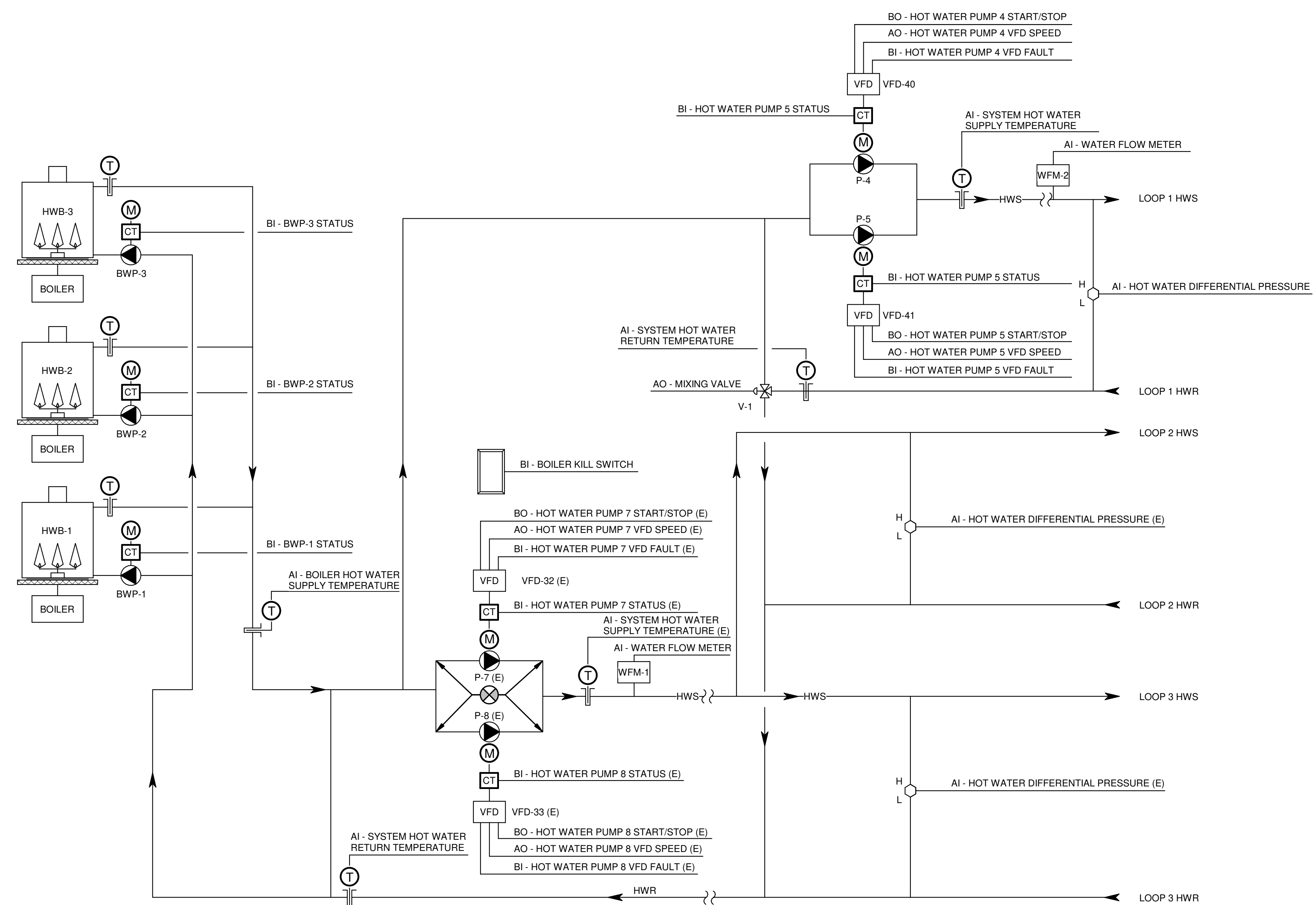
**SEQUENCE OF OPERATIONS:**  
FAN CONTROL: START/STOP: THE SUPPLY AND EXHAUST FANS SHALL BE STARTED AND STOPPED VIA HAND-OFF-AUTO SWITCH AND LOCAL SPACE TEMPERATURE SENSOR.  
TEMPERATURE CONTROL: INSTALL A SPACE TEMPERATURE SENSOR IN THE ELECTRICAL ROOM. CYCLE THE SUPPLY AND EXHAUST FAN TO MAINTAIN SPACE TEMPERATURE 65° F (ADJ.), AND SUBJECT TO THE FLOATING DRYBULB LOCKOUT.  
FLOATING DRY BULB LOCKOUT: THE VENTILATION SYSTEM SHALL BE ENABLED WHENEVER THE ADJACENT BUS CIRCULATION/STORAGE AIR TEMPERATURE IS MORE THAN 4° F (ADJ.) COOLER THAN THE ELECTRICAL ROOM SPACE TEMPERATURE.  
UNIT SHUTDOWN: WHENEVER THE VENTILATION SYSTEM IS INDEXED OFF, THE SUPPLY AND EXHAUST FANS SHALL STOP. ON A FAILURE OF EITHER THE SUPPLY OR EXHAUST FAN, AN ALARM SHALL BE SENT THROUGH THE DDC SYSTEM. WHENEVER THE SUPPLY FAN IS OFF FOR ANY REASON THE EXHAUST FAN SHALL STOP SHALL CLOSE.  
CURRENT STATUS SWITCH: PROVIDE FOR BOTH SUPPLY AND EXHAUST FANS.  
PROVIDE STATUS INDICATION THRU DDC FOR SUPPLY AND EXHAUST FANS.

**SEQUENCE OF OPERATIONS:**  
PROVIDE A DDC SPACE TEMPERATURE SENSOR TO CONTROL THE UNIT HEATER'S HOT WATER CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE. PROVIDE DDC START/STOP FOR UNIT HEATER'S FAN CONTROL. CYCLE FAN ON WHEN CALLING FOR HEATING. MODULATE HOT WATER CONTROL VALVE OPEN IN SEQUENCE WITH FAN TO MAINTAIN SPACE TEMPERATURE SETPOINT (ADJ.). WHEN SPACE IS SATISFIED, THE UNIT HEATER'S FAN SHALL CYCLE OFF AND HOT WATER CONTROL VALVE SHALL MODULATE CLOSED. SEND AN ALARM IF SPACE TEMPERATURE FALLS 10° F (ADJ.) BELOW SETPOINT FOR MORE THAN 15 MINUTES (ADJ.).  
PRESSURE WASHER ATMOSPHERE POWER DAMPER KIT SHALL BE HARD-WIRED TO THE GAS-BURNER FOR EACH UNIT. WIRE THE COMBUSTION AIR DAMPER TO BOTH ATMOSPHERE POWERED DAMPER KITS TO OPEN DAMPER WHEN EITHER UNIT'S GAS VALVE IS ENGAGED. FACTORY TO ADJUST POWER DAMPER KIT USING A FLUE GAS ANALYZER. WIRING HARNESS SHALL BE PROVIDED BY MANUFACTURER.  
SPACE CARBON MONOXIDE SENSOR SHALL BE MONITORED THROUGH THE BAS AND PROVIDE ALARM SIGNAL WHEN GREATER THAN 70 PPM.

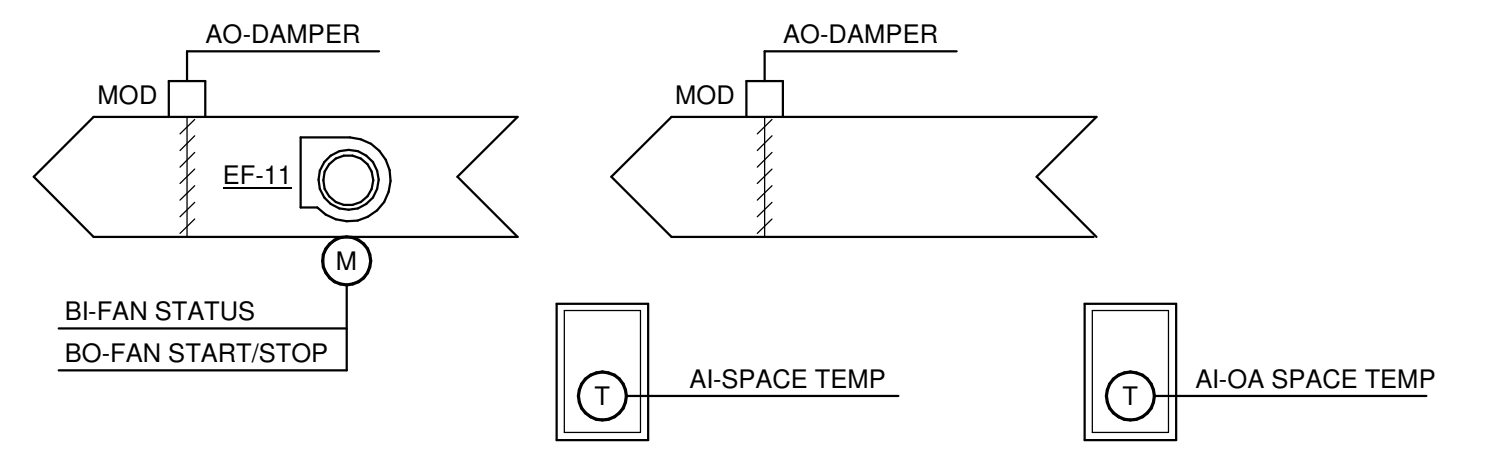
**4 PRESSURE WASHER ROOM**  
NO SCALE

**5 SUPPLY / EXHAUST FANS - ROOMS 1229, 2301**  
NO SCALE





**SEQUENCE OF OPERATIONS:**  
**BOILER CONTROL:**  
 THE HEATING PLANT CONSISTS OF THREE CONDENSING BOILERS. THREE BOILERS WILL BE REQUIRED TO PROVIDE HOT WATER TO SATISFY THE PEAK HEATING DEMAND. A HYDRONIC PUMPING IS PRIMARY CONSTANT FLOW FOR BOILERS AND SECONDARY VARIABLE FLOW FOR HEATING SYSTEM.  
 BOILERS ARE TO BE CONTROLLED BY MANUFACTURER PROVIDED CONTROL PANEL. BOILERS AND PRIMARY HOT WATER PUMPS (BWP-1, 2 AND 3) BE SEQUENCED ON AND OFF BY BOILER CONTROL PANEL.  
**BOILER POINT INTEGRATION:** THE BOILERS WILL BE INTEGRATED TO THE DDC SYSTEM AS THROUGH THE COMMUNICATION METHOD SPECIFIED IN THE BOILER SPECIFICATION SECTION. PROVIDE DDC PROGRAMMING TO DEFINE ALL BOILER INPUT AND OUTPUT INFORMATION AVAILABLE THROUGH THE BOILER MANUFACTURER'S INTEGRATION DATA PORT. SOME BOILER INFORMATION CAN BE LEFT UNMAPPED IF REQUESTED BY THE OWNER. THE HEATING PLANT SHALL BE MANUALLY ENERGIZED, SEASONALLY, THROUGH THE DDC SYSTEM USER INTERFACE.  
 THE SEQUENCE OF BOILERS ACTIVATED SHALL BE ROTATED, ON A TIMED BASIS, TO ENSURE UNIFORM OPERATIONAL HOURS OF EACH BOILER.  
 WHEN THE BOILER PLANT IS ENERGIZED THE LEAD BOILER AND BOILER WATER PUMP SHALL BE ENERGIZED.  
 PRIOR TO A BOILER BEING ENERGIZED, THE ASSOCIATED BOILER PUMP SHALL START. THE DDC SYSTEM HAS CONFIRMED THE HEATING WATER FLOW AND MINIMUM WATER FLOW; THE BOILER SHALL BE ENERGIZED.  
 BOILER CONTROL PANEL SHALL BE ENABLED/DISABLED BY DDC SYSTEM AND HAVE HOT WATER SUPPLY TEMPERATURE SETPOINT RESET BY BOILER SEQUENCER PANEL.  
 BOILER CONTROL PANEL SHALL BE CAPABLE OF OUTDOOR RESET, LOOP TEMPERATURE SPAN, AND SET LOOP TEMPERATURE. LINEAR RELATIONSHIP BETWEEN THE TWO POINTS ABOVE. THE SETPOINT SHALL BE 140° F (ADJ.) WITH A RESET SCHEDULE AS NOTED BELOW.  
 SUPPLY WATER TEMPERATURE: 140° F (ADJUSTABLE) WHEN THE OUTSIDE AIR TEMPERATURE IS -15° F (ADJUSTABLE) OR BELOW. 100° F (ADJUSTABLE) WHEN THE OUTSIDE AIR TEMPERATURE IS 65° F (ADJUSTABLE) OR ABOVE.  
 BOILERS SHALL BE DE-ENERGIZED BASED ON SYSTEM CAPACITY OR FLOW. IF THE SYSTEM CAPACITY IS BELOW 30% HEATING PUMP FLOWRATE OR IF THE FLOW THROUGH AN OPERATING BOILER FALLS BELOW ITS MINIMUM ALLOWABLE FLOW RATE, FLOWMETER AT PRIMARY PUMPS DISCHARGE TO MEASURE HEATING SYSTEM FLOWRATES.  
**HEATING WATER PUMP CONTROL:**  
 PUMP P-7 (E) AND PUMP P-8 (E) CONTROL:  
 THE SECONDARY HOT WATER PUMPS ARE PIPED IN PARALLEL AND OPERATE IN A LEAD-LAG MODE. EACH PUMP IS PROVIDED WITH A VARIABLE FREQUENCY DRIVE (VFD) TO MODULATE THE PUMP SPEED.  
**START/STOP:** THE DDC SYSTEM SHALL START THE HOT WATER LEAD PUMP WHENEVER 15% OR MORE OF ALL HYDRONIC TERMINALS ARE CALLING FOR HEAT. THE HOT WATER LAG PUMP SHALL NORMALLY REMAIN OFF. THE LAG SECONDARY HOT WATER PUMP SHALL BE STARTED WHEN REQUIRED BY THE LEAD LAG CONTROL DESCRIBED BELOW. THE SECONDARY HOT WATER PUMP START/STOP RELAYS SHALL UTILIZE NORMALLY CLOSED CONTACTS SO UPON FAILURE OF THE RELAY OR DDC CONTROLLER THE PUMP WILL FAIL ON. SECONDARY HOT WATER PUMPS SHALL BE COMMANDED OFF IF ALL ASSOCIATED HYDRONIC TERMINALS ARE OFF AND THE OUTSIDE AIR TEMPERATURE IS ABOVE 60° F (ADJ.).  
**LEAD / LAG CONTROL:** CURRENT STATUS SWITCHES, EITHER INTEGRAL TO THE VFD AND/OR DISCREET DEVICES, SHALL PROVE LEAD AND LAG PUMP OPERATION. IF THE LEAD PUMP IS CALLED TO RUN AND THE CURRENT STATUS SWITCH INDICATES THAT THE LEAD PUMP IS NOT OPERATING FOR 30 SECONDS (ADJ.), AN ALARM SHALL BE SENT TO THE OPERATOR INTERFACE AND THE DDC SYSTEM SHALL START THE LAG PUMP. UPON SENSING THE LEAD PUMP IS OPERATING, THE LAG PUMP SHALL BE STOPPED. THE DDC SYSTEM SHALL INDEX THE LAG PUMP TO BECOME THE LEAD PUMP THROUGH WEEKLY SCHEDULING FEATURE OF THE BUILDING AUTOMATION SYSTEM.  
 UPON SENSING THE LEAD SECONDARY HOT WATER PUMP IS OPERATING, THE LAG SECONDARY HOT WATER PUMP SHALL BE STOPPED. THE DDC SYSTEM SHALL INDEX THE LAG SECONDARY HOT WATER PUMP TO BECOME THE LEAD SECONDARY HOT WATER PUMP THROUGH WEEKLY SCHEDULING FEATURE OF THE BUILDING AUTOMATION SYSTEM.  
**SPEED CONTROL:** INSTALL A DIFFERENTIAL PRESSURE SENSOR(S) ACROSS THE SUPPLY AND RETURN PIPING AT THE POINT(S) IN THE SYSTEM WITH THE HIGHEST PRESSURE DROP AS INDICATED ON PLANS. THE DDC SYSTEM SHALL CONTROL THE OPERATING SECONDARY HOT WATER PUMP VFD TO MAINTAIN A SETPOINT AS DESCRIBED BELOW. FINAL SETPOINT SHALL BE OPTIMIZED BY THE BALANCING CONTRACTOR.  
 EXISTING TWO (2) DIFFERENTIAL PRESSURE SENSORS AS INDICATED ON THE PLANS. THE DIFFERENTIAL PRESSURE SETPOINT SHALL BE SELECTED BASED ON HIGH-LOW CONFIGURATION FOR THE TWO SENSORS WHICH THE SETPOINT IS SELECTED ON THE LOWEST READING.  
 RESET DIFFERENTIAL PRESSURE SETPOINT CONTROL: THE DIFFERENTIAL PRESSURE SETPOINT SHALL BE RESET USING TRIM & RESPOND LOGIC WITHIN THE RANGE 2 PSIG TO 12 PSIG. WHEN THE PUMP IS OFF, THE SETPOINT SHALL BE 8 PSIG. WHILE THE PUMP IS PROVEN ON, EVERY FIVE MINUTES, TRIM THE SETPOINT BY 0.4 PSIG. IF THERE ARE ONE OR FEWER ZONE PRESSURE REQUESTS. IF THERE IS MORE THAN ONE ZONE PRESSURE REQUESTS, RESPOND BY INCREASING THE SETPOINT BY 0.6 PSIG.  
 A ZONE PRESSURE REQUEST IS GENERATED WHEN A HYDRONIC TERMINAL VALVE IS GREATER THAN 95% OPEN UNTIL IT DROPS TO 80% OPEN. PROVIDE A BINARY DATA ENABLE POINT FOR EACH ZONE TO ENABLE/DISABLE THE HYDRONIC TERMINAL IN THE TRIM AND RESPOND ALGORITHM. ALL SETPOINTS, TIMERS, AND ZONE PRESSURE REQUEST THRESHOLD FOR THE DIFFERENTIAL PRESSURE RESET SHALL BE ADJUSTABLE. TUNE THE RESET TO PREVENT CYCLIC INSTABILITY AFTER THE SPACE IS OCCUPIED. PROVIDE A TREND GRAPH TO SHOW THE RELATIVE STABILITY OF THE DIFFERENTIAL PRESSURE SETPOINT. FINAL MAXIMUM SETPOINT SHALL BE DETERMINED BY THE BALANCING CONTRACTOR TO SATISFY THE WORST-CASE ZONE AT MAXIMUM DESIGN CONDITION.  
**HEATING WATER PUMP CONTROL:**  
 NEW WORK: PUMP (P-4) AND PUMP (P-5) CONTROL:  
 THE SECONDARY HOT WATER PUMPS ARE PIPED IN PARALLEL AND OPERATE IN A LEAD-LAG MODE. EACH PUMP IS PROVIDED WITH A VARIABLE FREQUENCY DRIVE (VFD) TO MODULATE THE PUMP SPEED.  
**START/STOP:** THE DDC SYSTEM SHALL START THE HOT WATER LEAD PUMP WHENEVER 15% OR MORE OF ALL HYDRONIC TERMINALS ARE CALLING FOR HEAT. THE HOT WATER LAG PUMP SHALL NORMALLY REMAIN OFF. THE LAG SECONDARY HOT WATER PUMP SHALL BE STARTED WHEN REQUIRED BY THE LEAD LAG CONTROL DESCRIBED BELOW. THE SECONDARY HOT WATER PUMP START/STOP RELAYS SHALL UTILIZE NORMALLY CLOSED CONTACTS SO UPON FAILURE OF THE RELAY OR DDC CONTROLLER THE PUMP WILL FAIL ON. SECONDARY HOT WATER PUMPS SHALL BE COMMANDED OFF IF ALL ASSOCIATED HYDRONIC TERMINALS ARE OFF AND THE OUTSIDE AIR TEMPERATURE IS ABOVE 60° F (ADJ.).  
**LEAD / LAG CONTROL:** CURRENT STATUS SWITCHES, EITHER INTEGRAL TO THE VFD AND/OR DISCREET DEVICES, SHALL PROVE LEAD AND LAG PUMP OPERATION. IF THE LEAD PUMP IS CALLED TO RUN AND THE CURRENT STATUS SWITCH INDICATES THAT THE LEAD PUMP IS NOT OPERATING FOR 30 SECONDS (ADJ.), AN ALARM SHALL BE SENT TO THE OPERATOR INTERFACE AND THE DDC SYSTEM SHALL START THE LAG PUMP. UPON SENSING THE LEAD PUMP IS OPERATING, THE LAG PUMP SHALL BE STOPPED. THE DDC SYSTEM SHALL INDEX THE LAG PUMP TO BECOME THE LEAD PUMP THROUGH WEEKLY SCHEDULING FEATURE OF THE BUILDING AUTOMATION SYSTEM.  
 UPON SENSING THE LEAD SECONDARY HOT WATER PUMP IS OPERATING, THE LAG SECONDARY HOT WATER PUMP SHALL BE STOPPED. THE DDC SYSTEM SHALL INDEX THE LAG SECONDARY HOT WATER PUMP TO BECOME THE LEAD SECONDARY HOT WATER PUMP THROUGH WEEKLY SCHEDULING FEATURE OF THE BUILDING AUTOMATION SYSTEM.  
**SPEED CONTROL:** INSTALL A DIFFERENTIAL PRESSURE SENSOR(S) ACROSS THE SUPPLY AND RETURN PIPING AT THE POINT IN THE SYSTEM WITH THE HIGHEST PRESSURE DROP AS INDICATED ON PLANS. THE DDC SYSTEM SHALL CONTROL THE OPERATING SECONDARY HOT WATER PUMP VFD TO MAINTAIN A SETPOINT AS DESCRIBED BELOW. FINAL SETPOINT SHALL BE OPTIMIZED BY THE BALANCING CONTRACTOR.  
 PROVIDE ONE (1) DIFFERENTIAL PRESSURE SENSOR AS INDICATED ON THE PLANS.  
 WHENEVER PUMP (P-4) OR PUMP (P-5) IS RUNNING, AS DETERMINED BY THE DDC SYSTEM, THE TEMPERATURE OF THE HEATING WATER SUPPLY SHALL BE CONTROLLED TO MAINTAIN A SETPOINT. THE SETPOINT SHALL BE 120° F (ADJ.) WITH A RESET SCHEDULE AS NOTED BELOW.  
 SUPPLY WATER TEMPERATURE:  
 • 120° F (ADJUSTABLE) WHEN THE OUTSIDE AIR TEMPERATURE IS -15° F (ADJUSTABLE) OR BELOW.  
 • 100° F (ADJUSTABLE) WHEN THE OUTSIDE AIR TEMPERATURE IS 60° F (ADJUSTABLE) OR ABOVE.  
 • LINEAR RELATIONSHIP BETWEEN THE TWO POINTS ABOVE.  
 PROVIDE OPERATION AND ALARM STATUS AT BAS. ON FAILURE OF THE LEAD HEATING HOT WATER PUMP, AS MEASURED VIA CURRENT SWITCH, LAG HEATING HOT WATER PUMP SHALL BE STARTED AND A CRITICAL ALARM SHALL BE GENERATED. TIME LIMIT FOR DETERMINING HEATING HOT WATER PUMP FAILURE SHALL BE 30 SECONDS (ADJ.).  
**POWER OUTAGE OPERATION:**  
 IN THE EVENT OF A FAILURE OF THE PRIMARY ELECTRICAL SERVICE, THE LEAD AND/OR LAG HEATING HOT WATER PUMP SHALL BE AUTOMATICALLY STARTED AND OPERATE VIA STANDBY POWER FROM THE BUILDING STANDBY POWER SYSTEM. DDC SHALL ALLOW BOTH HEATING HOT WATER PUMPS TO OPERATE VIA STANDBY POWER FROM THE BUILDING STANDBY POWER SYSTEM.  
 ON FAILURE OF THE LEAD HEATING HOT WATER PUMP, AS MEASURED VIA CURRENT SWITCH, LAG HEATING HOT WATER PUMP SHALL BE STARTED AND A CRITICAL ALARM SHALL BE GENERATED. TIME LIMIT FOR DETERMINING HEATING HOT WATER PUMP FAILURE SHALL BE 30 SECONDS (ADJ.).  
 DESIGNATION OF LEAD / LAG / STANDBY HEATING HOT WATER PUMPS, FOR POWER OUTAGE OPERATION, SHALL BE MANUALLY DEFINABLE THROUGH THE DDC.



**SEQUENCE OF OPERATIONS:**  
**FAN CONTROL:** START/STOP: THE EXHAUST FAN WITH THE ASSOCIATED AIR DAMPER AND OUTSIDE AIR DAMPER SHALL BE STARTED AND STOPPED VIA HAND-OFF-AUTO SWITCH AND LOCAL SPACE TEMPERATURE SENSOR.  
 WHEN EXHAUST FAN IS ENERGIZED, THE MOTORIZED AUTOMATIC DAMPERS FAN SHALL OPEN AND THE FAN MOTOR SHALL START. THE REVERSE SHALL OCCUR WHEN SPACE TEMPERATURE IS BELOW SETPOINT AND EXHAUST FAN SHALL BE ENERGIED AND CLOSE DAMPERS.  
**TEMPERATURE CONTROL:** INSTALL A SPACE TEMPERATURE SENSOR IN THE BOILER ROOM. CYCLE THE EXHAUST FAN TO MAINTAIN SPACE TEMPERATURE 85° F (ADJ.), AND SUBJECT TO THE FLOATING DRYBULB LOCKOUT.  
 FLOATING DRY BULB LOCKOUT: THE VENTILATION SYSTEM SHALL BE ENABLED WHENEVER THE OUTDOOR AIR TEMPERATURE IS MORE THAN 4° F (ADJ.) COOLER THAN THE BOILER ROOM SPACE TEMPERATURE.  
**UNIT SHUTDOWN:** WHENEVER THE VENTILATION SYSTEM IS INDEXED OFF, THE EXHAUST FAN SHALL STOP. ON A FAILURE OF THE EXHAUST FAN, AN ALARM SHALL BE SENT THROUGH THE DDC SYSTEM. WHENEVER THE EXHAUST FAN IS OFF FOR ANY REASON THE OUTSIDE AIR DAMPER SHALL STOP SHALL CLOSE.  
 CURRENT STATUS SWITCH: PROVIDE FOR EXHAUST FAN. PROVIDE STATUS INDICATION THRU DDC FOR EXHAUST FAN.

**2 EXHAUST FAN - EF-11**  
NO SCALE

**1 MULTIPLE BOILER SYSTEM - CONSTANT PRIMARY/VARIABLE SECONDARY**  
NO SCALE

### LUMINAIRE SYMBOLS

Table listing various luminaire symbols including recessed, surface, and pendant types with their corresponding graphical representations.

Diagram illustrating luminaire circuitry and control key, showing connections for lighting control panels and schedules.

### LUMINAIRE CONTROL SYMBOLS

Table detailing luminaire control symbols such as occupancy sensors, daylight sensors, and emergency lighting controls.

### SERVICE & DISTRIBUTION SYMBOLS

Table listing service and distribution symbols including generator panels, panelboards, and contactors.

### GROUNDING & LIGHTNING PROTECTION SYMBOLS

Table detailing grounding and lightning protection symbols such as ground access wells, rods, and conductors.

### WIRING DEVICE SYMBOLS

Table listing wiring device symbols including duplex receptacles, switches, and raceway notations.

### RECEPTACLE NOTATIONS

Table providing notations for various types of receptacles and their mounting specifications.

### RACEWAY SYMBOLS

Table listing symbols for surface mounted and concealed conduits and junction boxes.

### MOTOR CONTROL & PROTECTIVE DEVICE SYMBOLS

Table detailing motor control and protective device symbols including magnetic controllers, disconnects, and starting switches.

### FIRE ALARM SYMBOLS

Table listing fire alarm symbols such as control panels, horns, strobes, and detectors.

### GENERAL SYMBOLS

Table listing general symbols including detail numbers, keyed notes, and pressure switches.

### LINE TYPE KEY

Table defining line types used in drawings for new work, existing work, and equipment enclosures.

### PANEL DESIGNATION KEY

Table defining panel designation keys including floor, type, system/source, voltage, and sequence number or letter.

### ELECTRICAL ABBREVIATIONS

Comprehensive table of electrical abbreviations for components like conductors, switches, motors, and equipment.

### GENERAL NOTES:

- List of general notes providing instructions and clarifications for the contractor regarding code analysis, work details, and safety.

### DEMOLITION GENERAL NOTES:

- List of demolition general notes detailing requirements for removing existing electrical equipment and structures.

MEAD & HUNT logo and contact information including address and phone number.

CITY OF MADISON WISCONSIN logo and metro transit logo.

CITY OF MADISON METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS 1101 EAST WASHINGTON AVE. MADISON, WI 53703

Project metadata including contract number, date, designer, and sheet information (E-001).

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**POWER DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.

**KEYED NOTES**

- 9.020 EXISTING UNDERGROUND SERVICE CONDUCTORS FROM EXISTING UTILITY TRANSFORMER TO EXTERIOR OF BUILDING WILL BE REWORKED AND REMOVED BY M&H UTILITY. THE EC WILL BE RESPONSIBLE TO REMOVE SERVICE CONDUCTORS AND CONDUIT FROM SWITCHBOARD TO WHERE SERVICE CONDUITS AND CONDUCTORS EXIT BUILDING.

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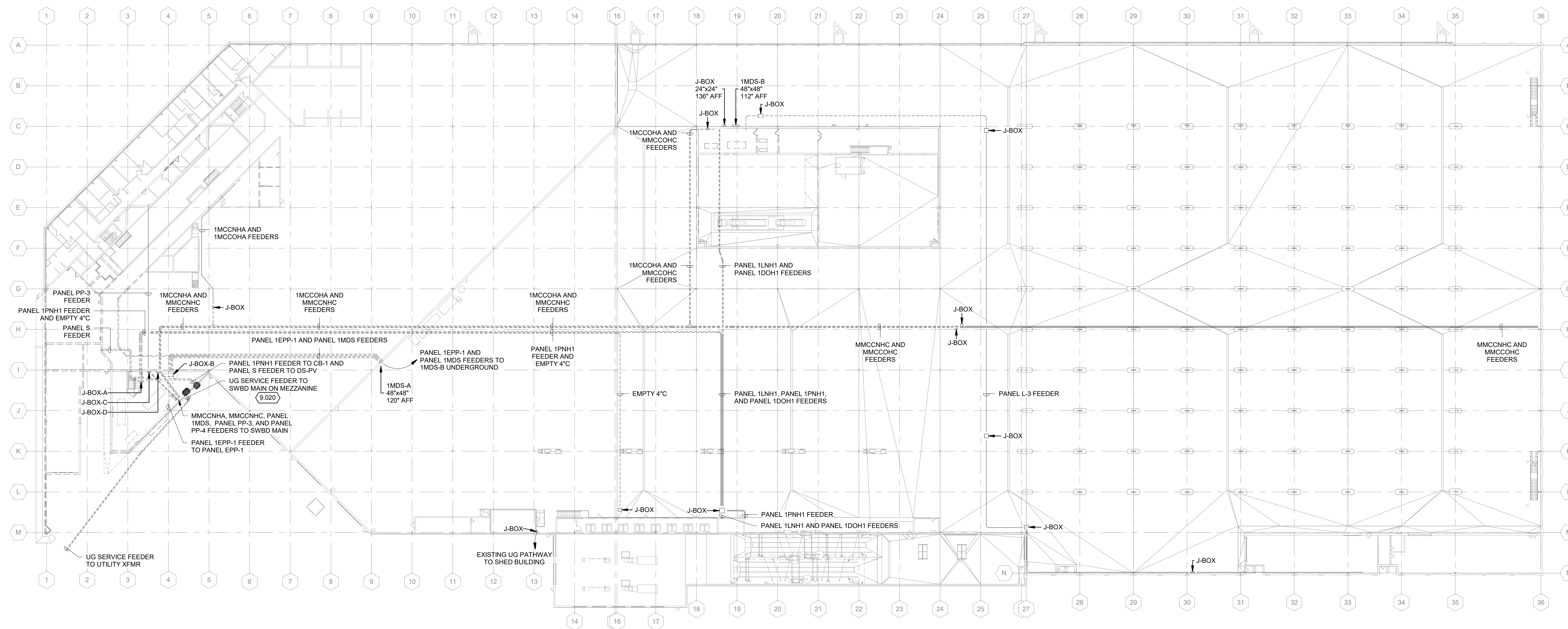
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M&H NO.: 4503500-190896.03  
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DRAWN BY: KAS  
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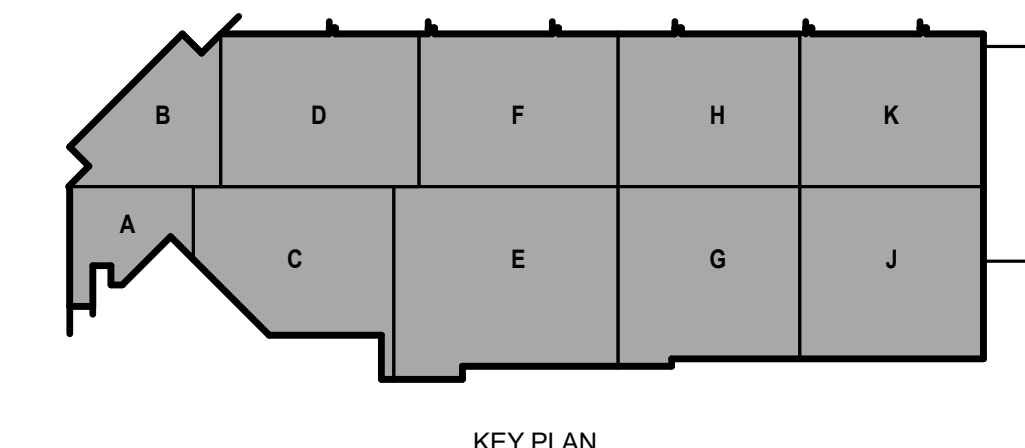
SHEET CONTENTS  
CONDUIT DEMOLITION PLAN - OVERALL

SHEET NO.:

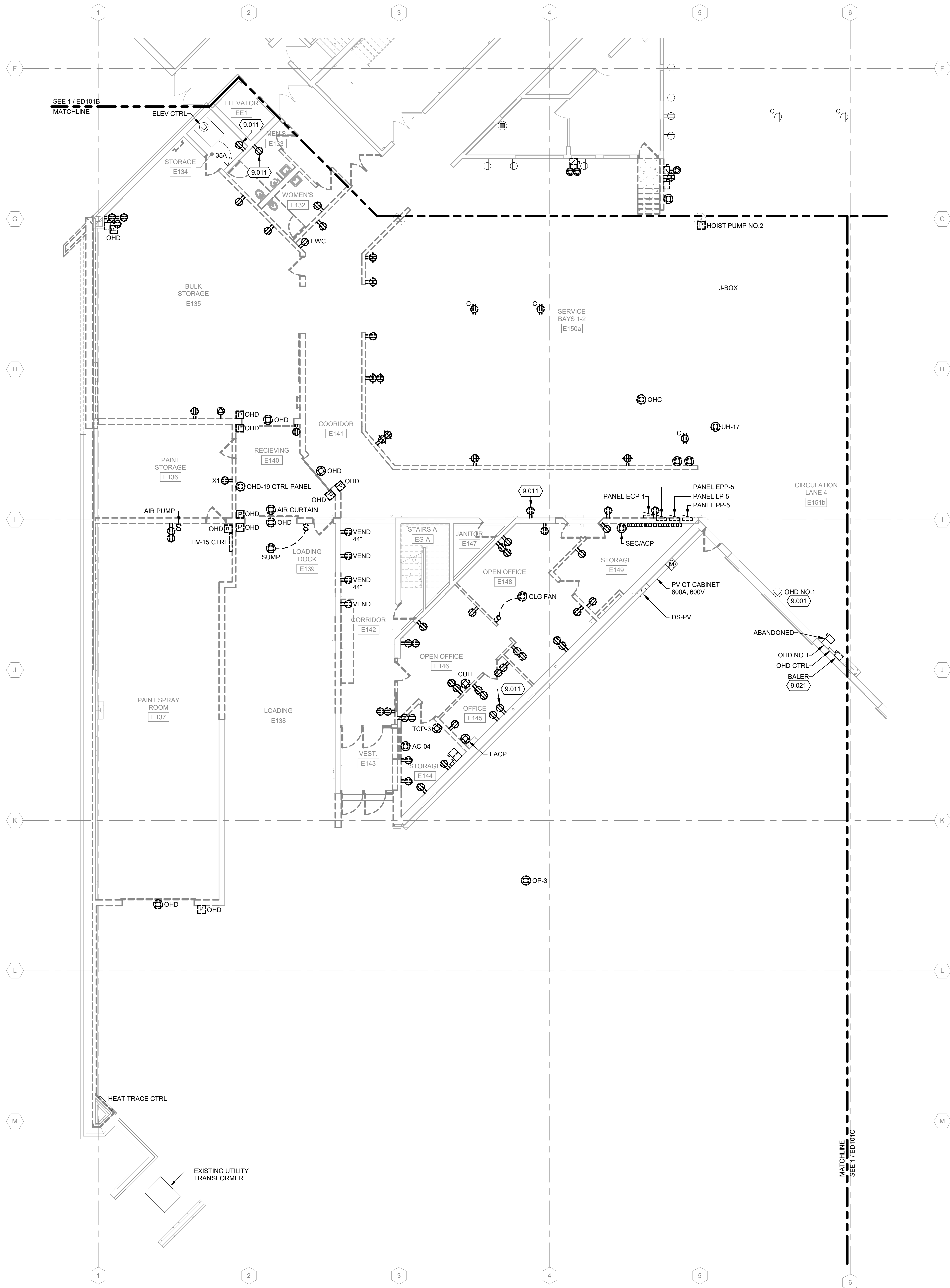
**ED101**



**1 CONDUIT DEMOLITION PLAN - OVERALL**  
1" = 30'-0"



KEY PLAN



**POWER DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.

**KEYED NOTES**

- 9.001 DISCONNECT AND INTERCEPT EXISTING CIRCUITS NOT DEMOLISHED AS PART OF PHASE 3A. REFER TO DRAWING ED001 FOR EXISTING PANELBOARD CIRCUIT DIRECTORY FOR CIRCUITS TO BE MAINTAINED AND EXTENDED.
- 9.011 DISCONNECT AND REMOVE DEVICE AND BRANCH CIRCUIT BACK TO SOURCE. BACKBOX AND CONDUIT TO REMAIN ABANDONED IN PLACE. PROVIDE BLANK COVER PLATE.
- 9.021 DISCONNECT BALER FOR RELOCATION BY GC. DISCONNECT AND REMOVE. DISCONNECT AND FEEDER BACK TO SOURCE. REFER TO DRAWING 1E-101C FOR NEW LOCATION.

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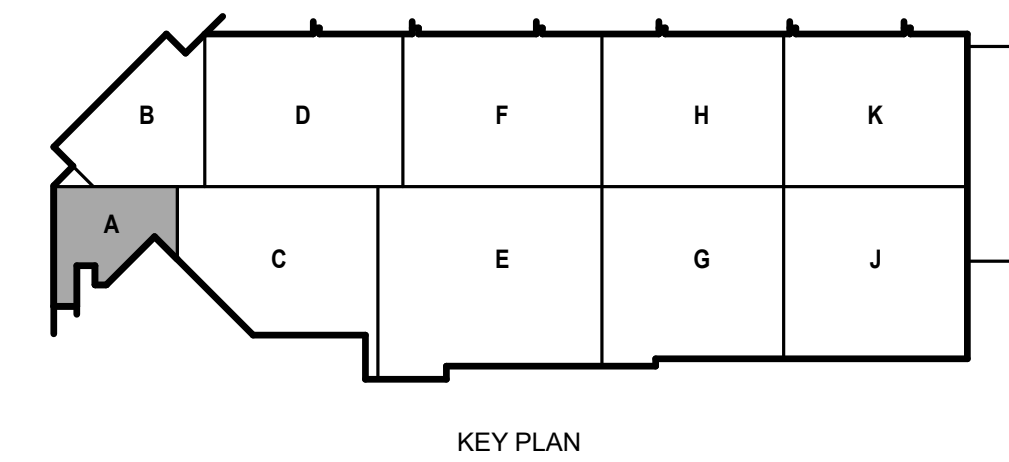
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SHEET CONTENTS  
 FIRST FLOOR  
 POWER DEMOLITION  
 PLAN - AREA A

SHEET NO.:

**ED101A**

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



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**POWER DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.

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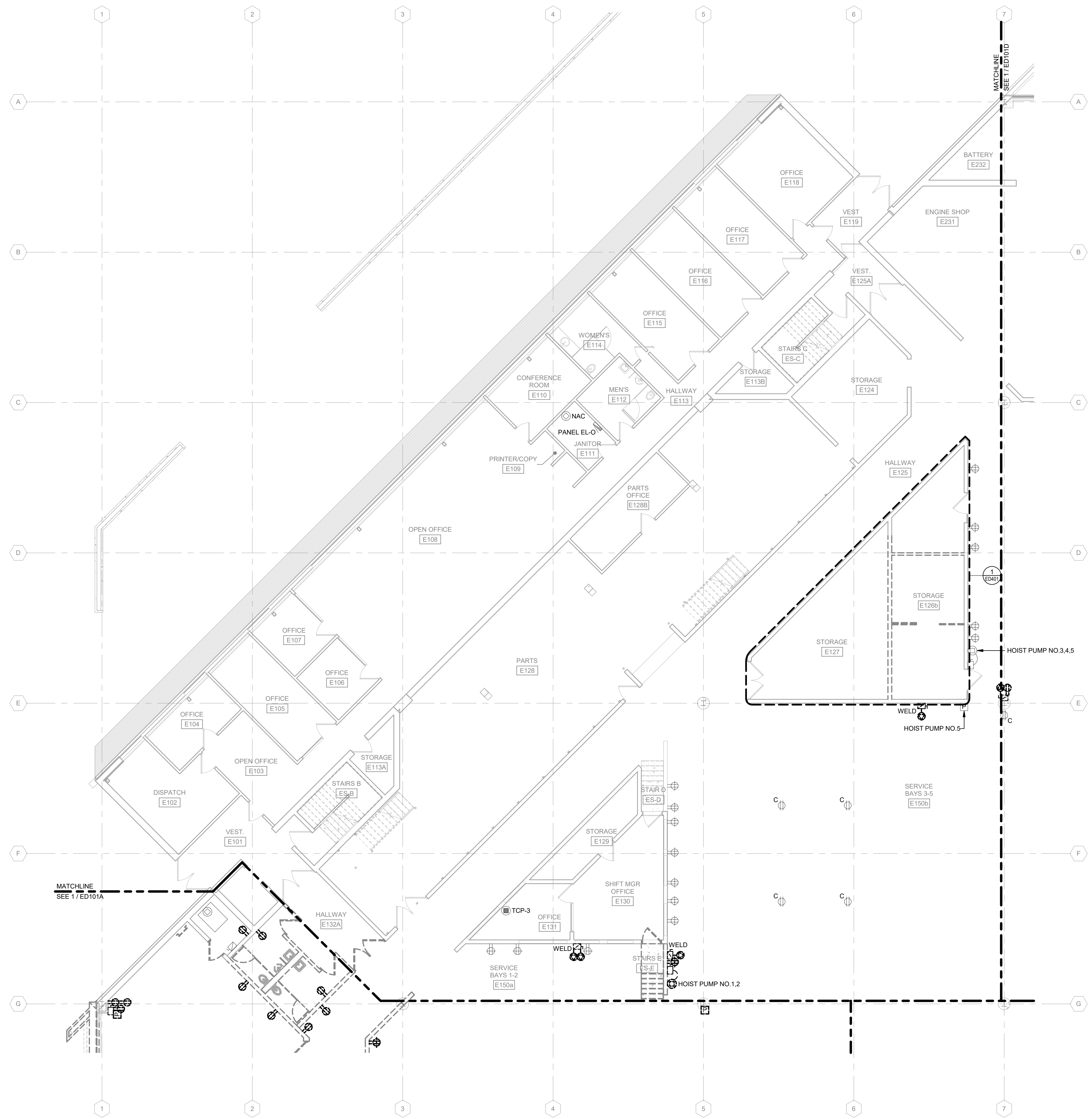
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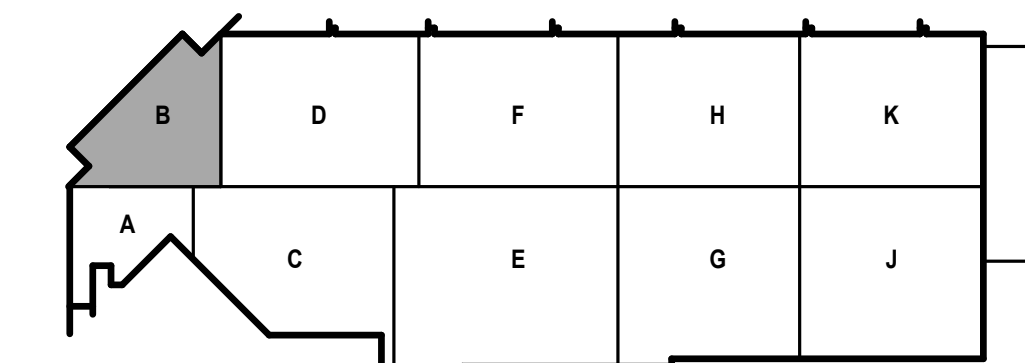
SHEET CONTENTS  
FIRST FLOOR  
POWER DEMOLITION  
PLAN - AREA B

SHEET NO.:

**ED101B**



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



KEY PLAN



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SHEET CONTENTS  
FIRST FLOOR  
POWER DEMOLITION  
PLAN - AREA C

SHEET NO.:

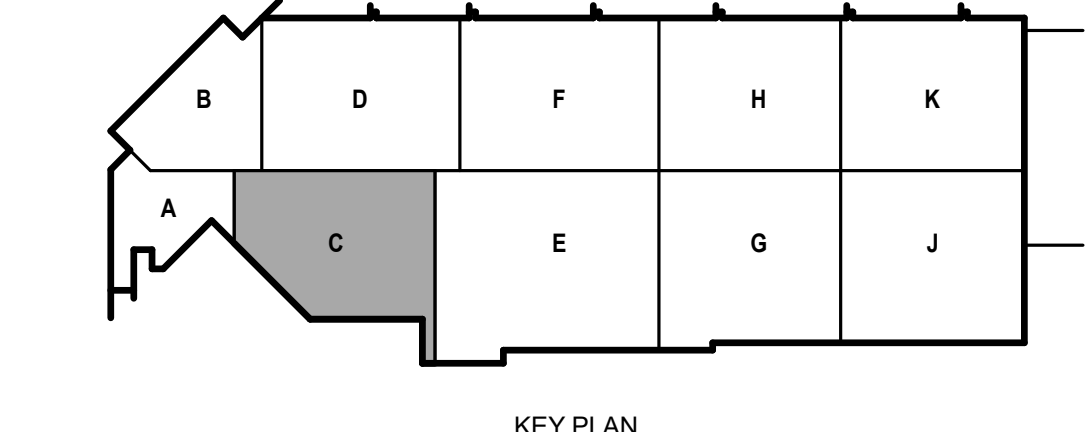
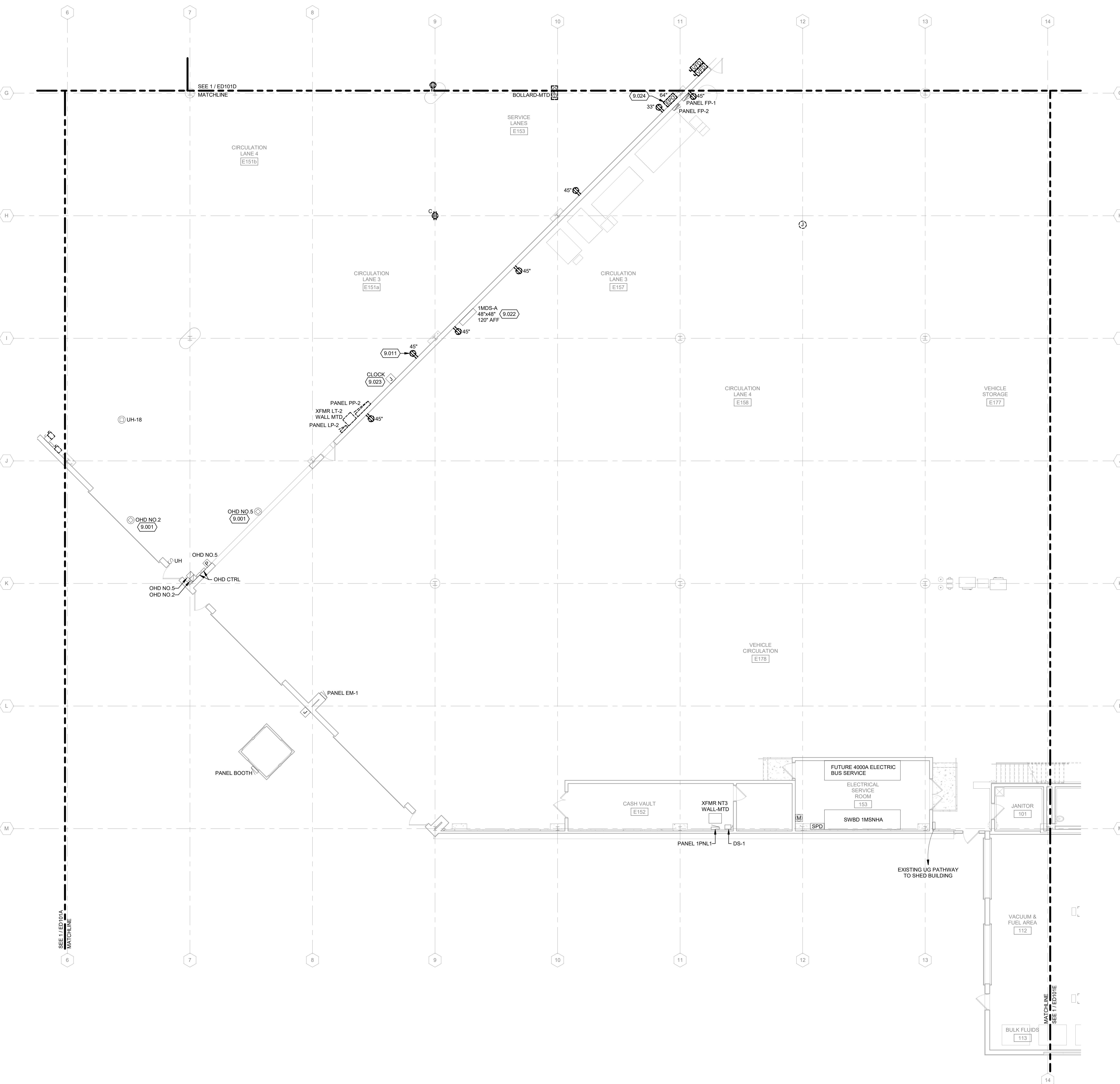
**ED101C**

**POWER DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.

**KEYED NOTES**

- 9.001 DISCONNECT AND INTERCEPT EXISTING CIRCUITS NOT DEMOLISHED AS PART OF PHASE 3A. REFER TO DRAWING ED001 FOR EXISTING PANELBOARD CIRCUIT DIRECTORY FOR CIRCUITS TO BE MAINTAINED AND EXTENDED.
- 9.011 DISCONNECT AND REMOVE DEVICE AND BRANCH CIRCUIT BACK TO SOURCE. BACKBOX AND CONDUIT TO REMAIN ABANDONED IN PLACE. PROVIDE BLANK COVER PLATE.
- 9.022 PULL BOX CONTAINS FEEDER AND ASSOCIATED CONDUITS FOR PANELS 'MDS' AND EPT-1. IN ADDITION, PULL BOX CONTAINS SEVERAL UNDETERMINED FEEDERS AND BRANCH WIRING. EC TO DETERMINE ADDITIONAL FEEDERS AND WIRING AND IDENTIFY. IF FEEDERS AND BRANCH WIRING SERVE EQUIPMENT AND/OR DEVICES TO BE REMOVED AS PART OF THIS PHASE REMOVE ALL WIRING AND ASSOCIATED CONDUITS.
- 9.023 PROVIDE SHEET METAL COVER PLATE TO ABANDON 8" SQUARE CLOCK BACKBOX.
- 9.024 DIESEL FUEL PUMP DISPENSER. EC SHALL DISCONNECT DISPENSER AND ASSOCIATED EMERGENCY PUMP OFF SWITCH (EPO) FOR REMOVAL AND RELOCATION BY OTHERS. REFER TO DRAWING 11E-101D FOR NEW LOCATION AND ELECTRICAL WORK.



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

**POWER DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.

**KEYED NOTES**

- 9.001 DISCONNECT AND INTERCEPT EXISTING CIRCUITS NOT DEMOLISHED AS PART OF PHASE 3A. REFER TO DRAWING ED001 FOR EXISTING PANELBOARD CIRCUIT DIRECTORY FOR CIRCUITS TO BE MAINTAINED AND EXTENDED.
- 9.011 DISCONNECT AND REMOVE DEVICE AND BRANCH CIRCUIT BACK TO SOURCE. BACKBOX AND CONDUIT TO REMAIN ABANDONED IN PLACE. PROVIDE BLANK COVER PLATE.
- 9.024 DIESEL FUEL PUMP DISPENSER. EC SHALL DISCONNECT DISPENSER AND ASSOCIATED EMERGENCY PUMP OFF SWITCH (EPO) FOR REMOVAL AND RELOCATION BY OTHERS. REFER TO DRAWING 1/E-101D FOR NEW LOCATION AND ELECTRICAL WORK.
- 9.025 DISCONNECT AND REMOVE VFD'S FOR RELOCATION AS SHOWN ON DRAWING 1/E-101D. REWORK AND EXTEND EXISTING MOTOR FEEDER AND BRANCH CIRCUIT WIRING TO NEW LOCATION AND RECONNECT TO VFD'S.

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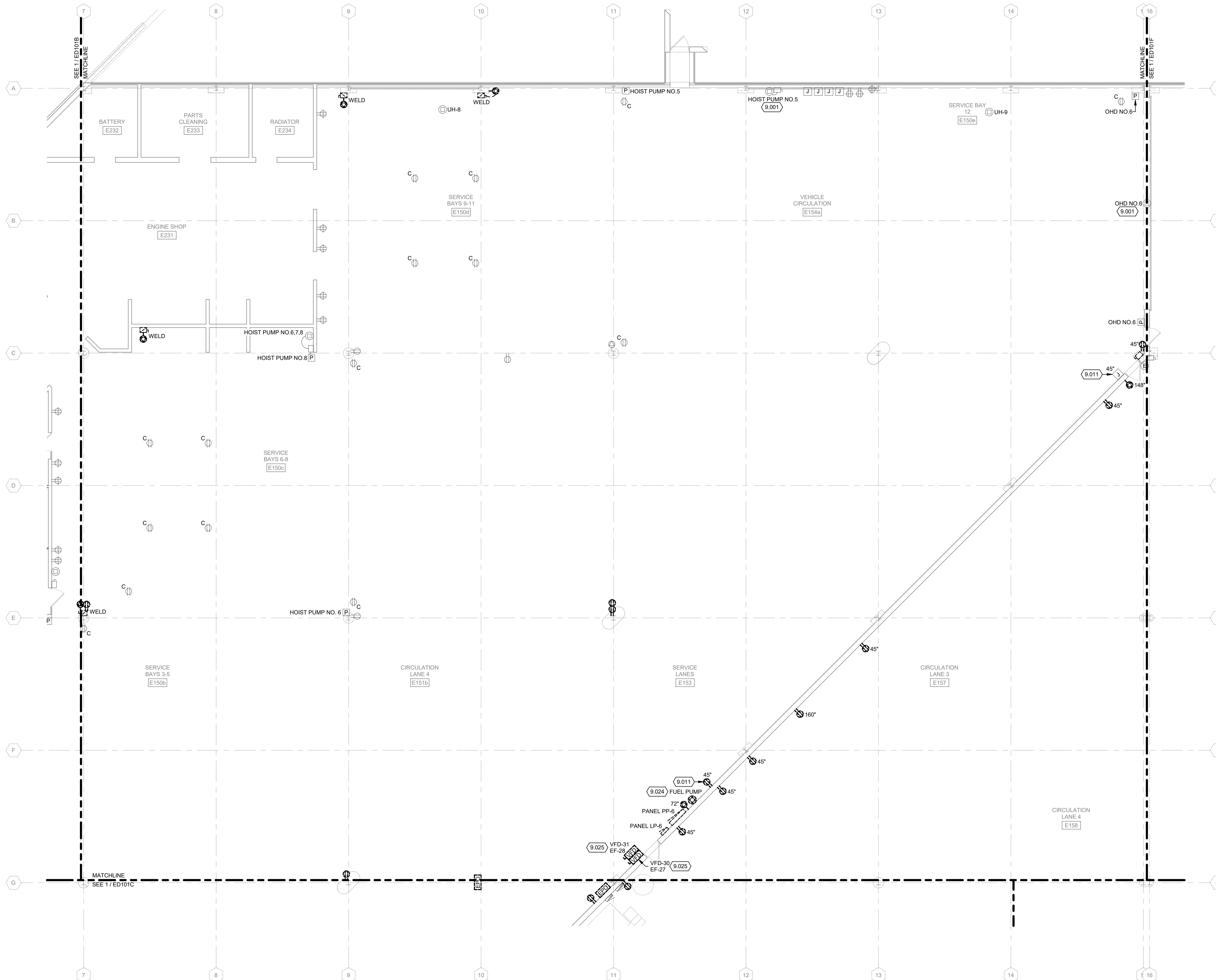
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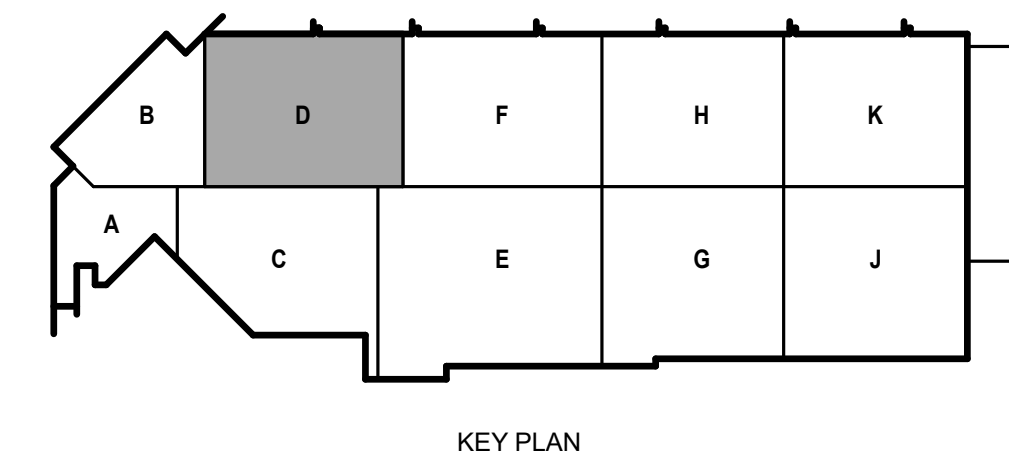
SHEET CONTENTS  
FIRST FLOOR  
POWER DEMOLITION  
PLAN - AREA D

SHEET NO.:

**ED101D**



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



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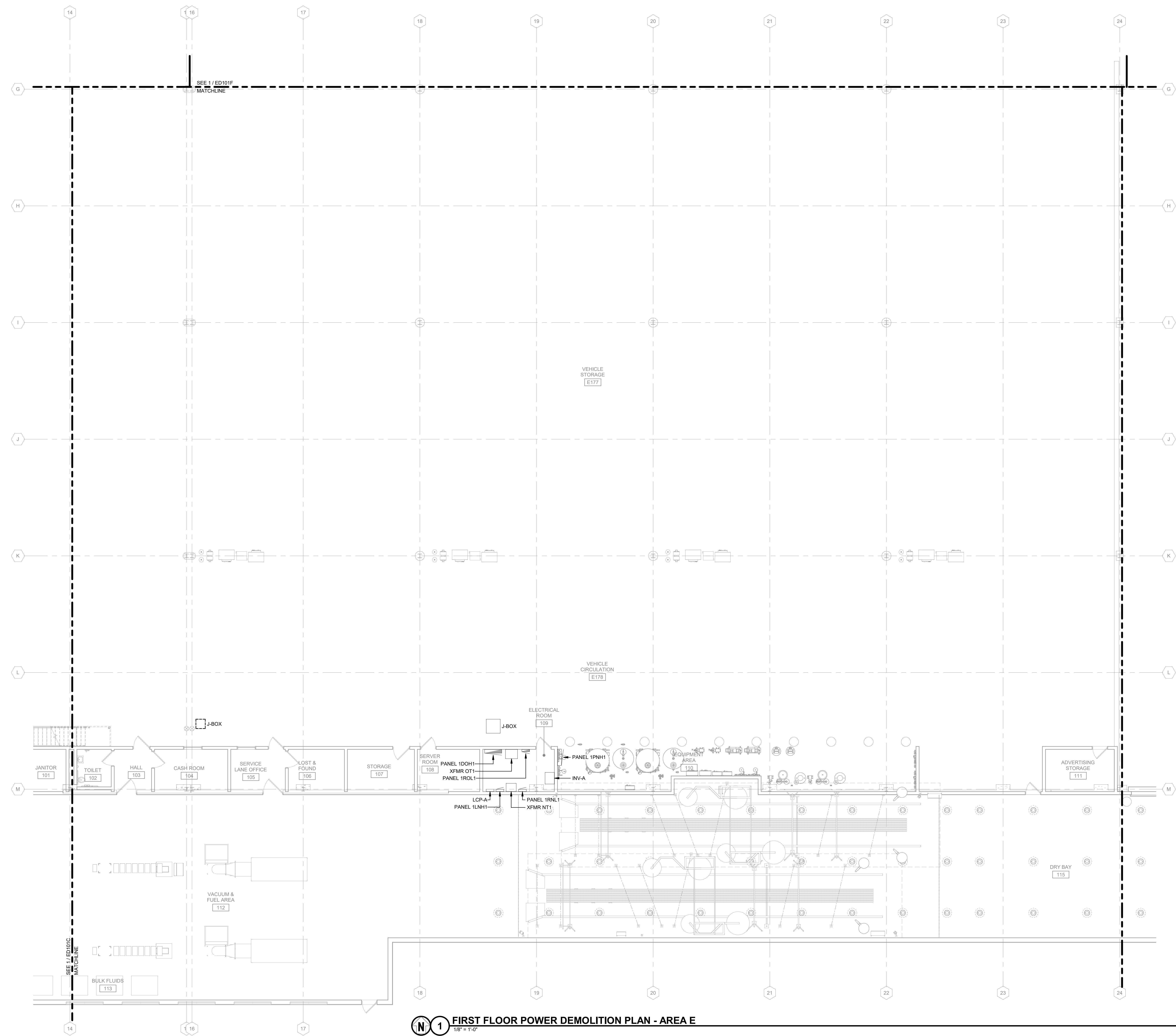
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SHEET CONTENTS  
FIRST FLOOR  
POWER DEMOLITION  
PLAN - AREA E

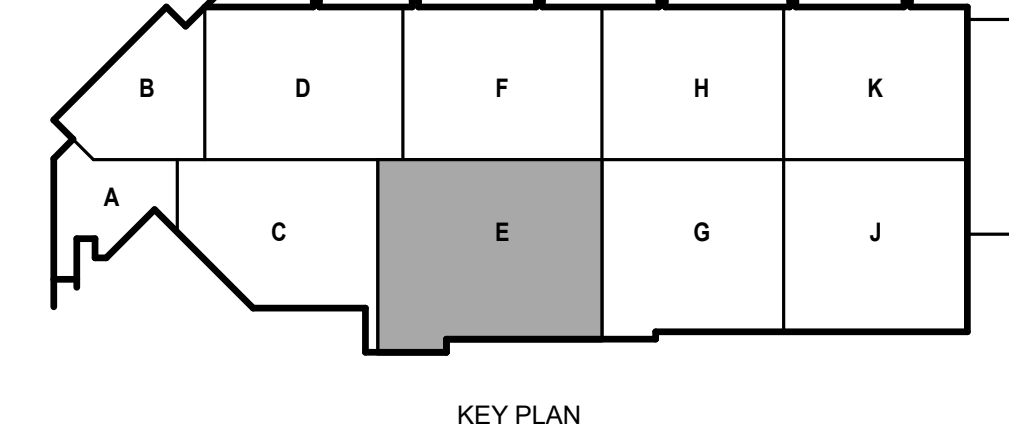
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**POWER DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.



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



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**POWER DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.

**KEYED NOTES**

- 9.001 DISCONNECT AND INTERCEPT EXISTING CIRCUITS NOT DEMOLISHED AS PART OF PHASE 3A. REFER TO DRAWING ED001 FOR EXISTING PANELBOARD CIRCUIT DIRECTORY FOR CIRCUITS TO BE MAINTAINED AND EXTENDED.
- 9.011 DISCONNECT AND REMOVE DEVICE AND BRANCH CIRCUIT BACK TO SOURCE. BACKBOX AND CONDUIT TO REMAIN ABANDONED IN PLACE. PROVIDE BLANK COVER PLATE.
- 9.012 DISCONNECT AND REMOVE DEVICE AND BRANCH CIRCUIT BACK TO SOURCE. BACKBOX AND CONDUIT TO REMAIN IN PLACE FOR NEW DEVICE AND BRANCH CIRCUIT AS SHOWN ON E-101F.
- 9.028 OVERHEAD DOORS OHD-7, 8, 9 AND 10 ARE SERVED FROM A COMMON MOTOR BRANCH CIRCUIT FROM PANEL 14DS-15. EC TO DISCONNECT AND REMOVE BRANCH CIRCUIT WIRING BACK TO SOURCE FOR ALL OVERHEAD DOORS. REMOVE DISCONNECTS, WIRING AND CONDUIT AND CONTROLS FOR OHD-8 AND OHD-10 TO ALLOW REMOVAL OF DOOR BY OTHERS. MAINTAIN DISCONNECTS, BRANCH WIRING AND CONTROLS IN PLACE FOR OVERHEAD DOORS OHD-7 AND OHD-9 FOR RECONNECTION OF NEW CIRCUIT AS SHOWN ON DRAWING 1E-101F AND 1E-103.

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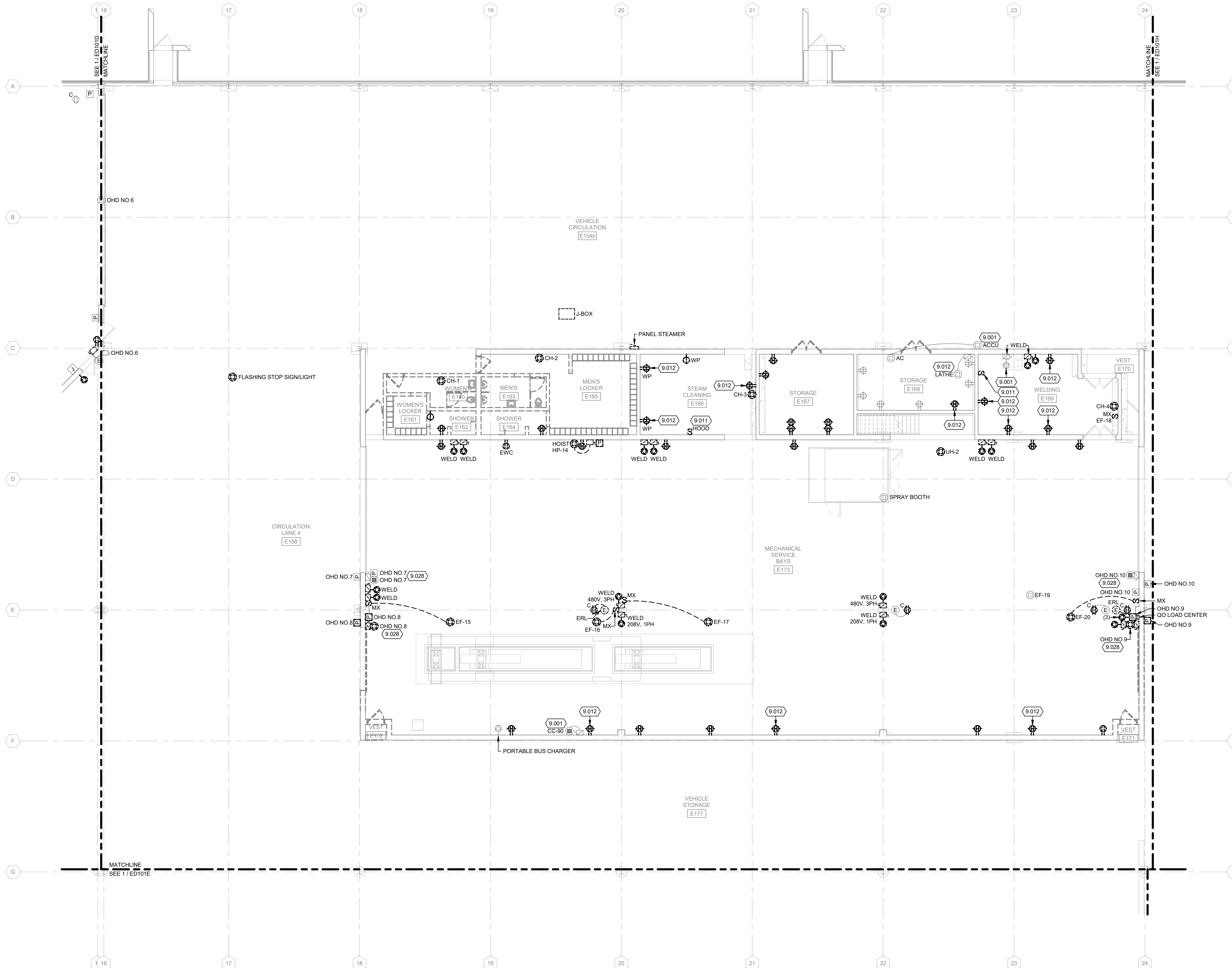
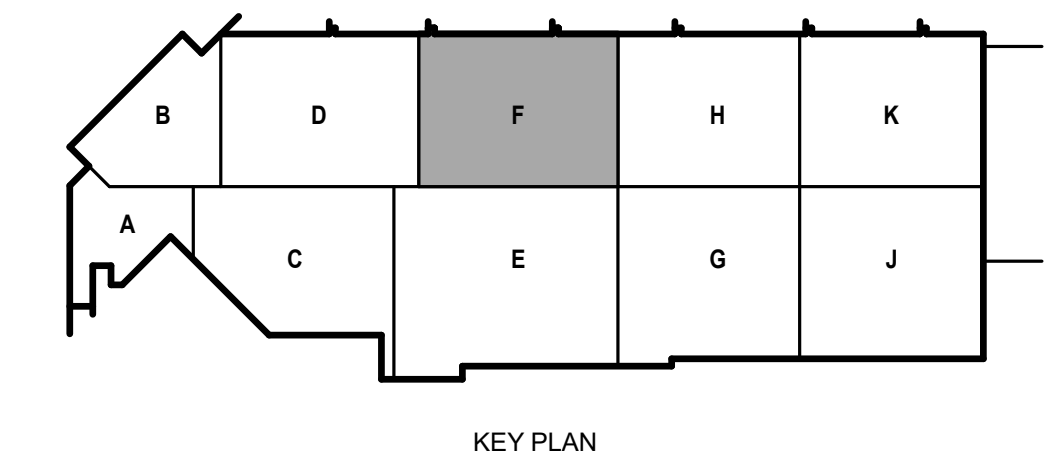
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SHEET CONTENTS  
FIRST FLOOR  
POWER DEMOLITION  
PLAN - AREA F

SHEET NO.:

**ED101F**



**FIRST FLOOR POWER DEMOLITION PLAN - AREA F**  
1/8" = 1'-0"

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**POWER DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.

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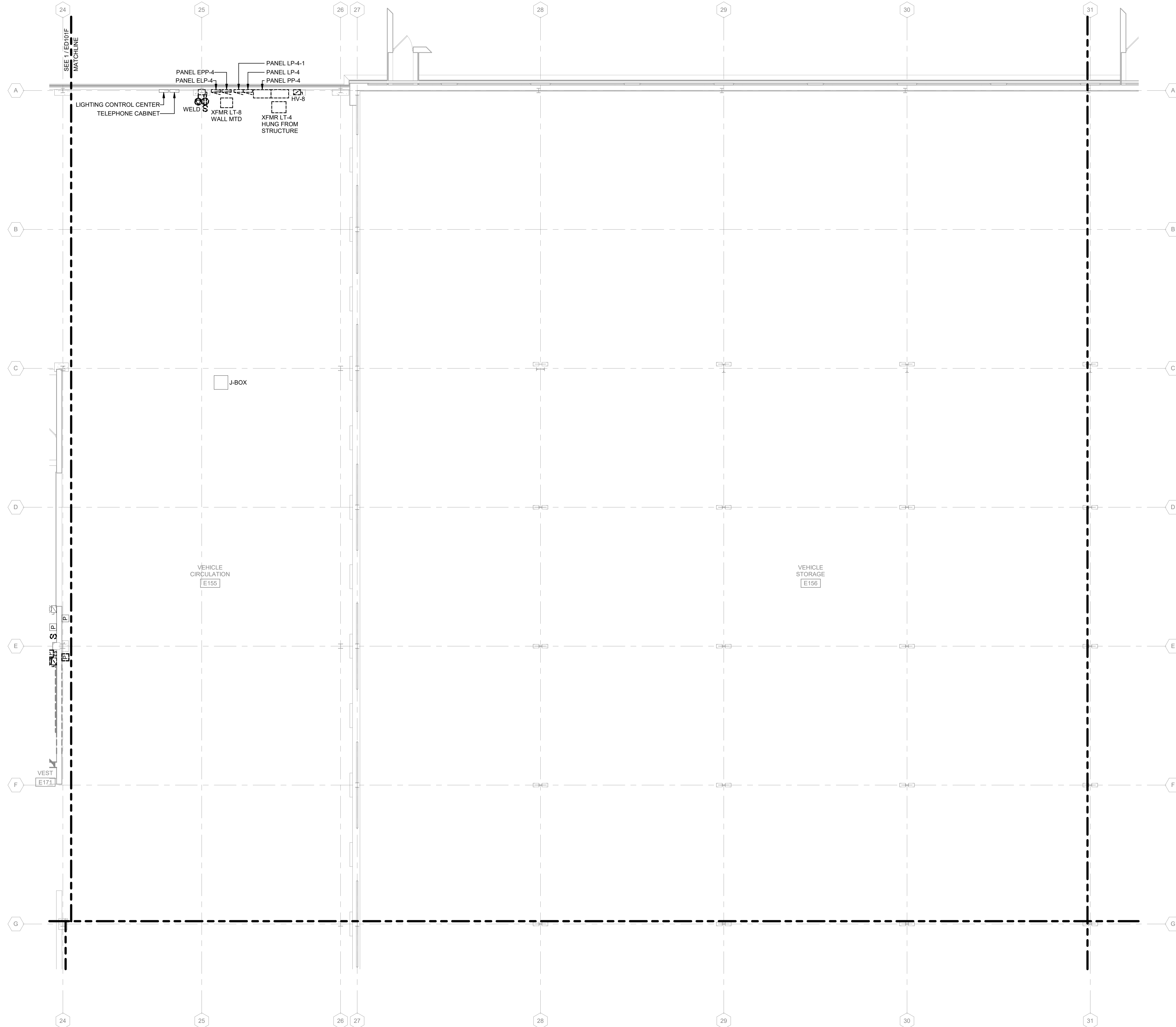
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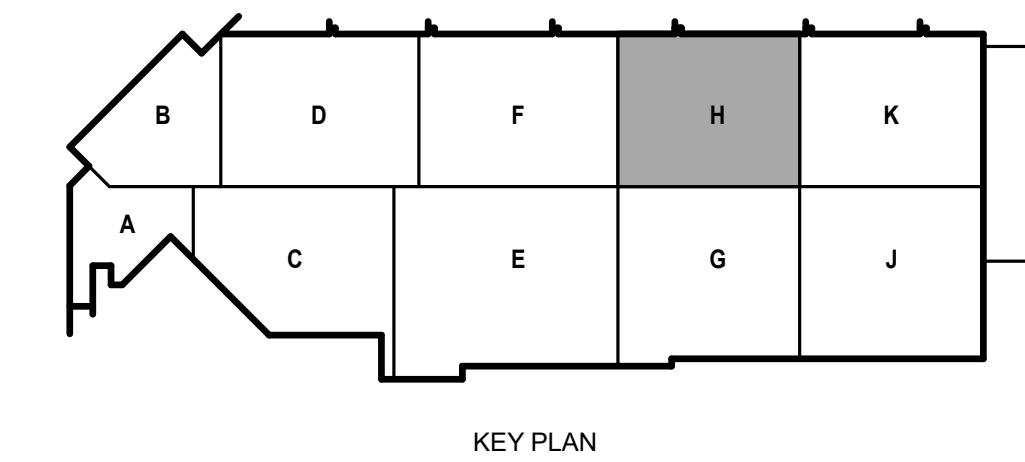
SHEET CONTENTS  
FIRST FLOOR  
POWER DEMOLITION  
PLAN - AREA H

SHEET NO.:

**ED101H**



**1** FIRST FLOOR POWER DEMOLITION PLAN - AREA H  
1/8" = 1'-0"



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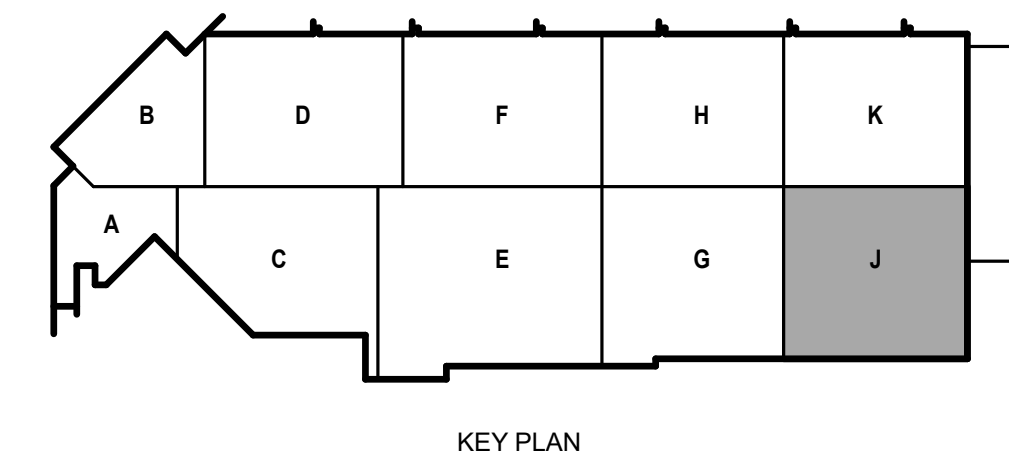
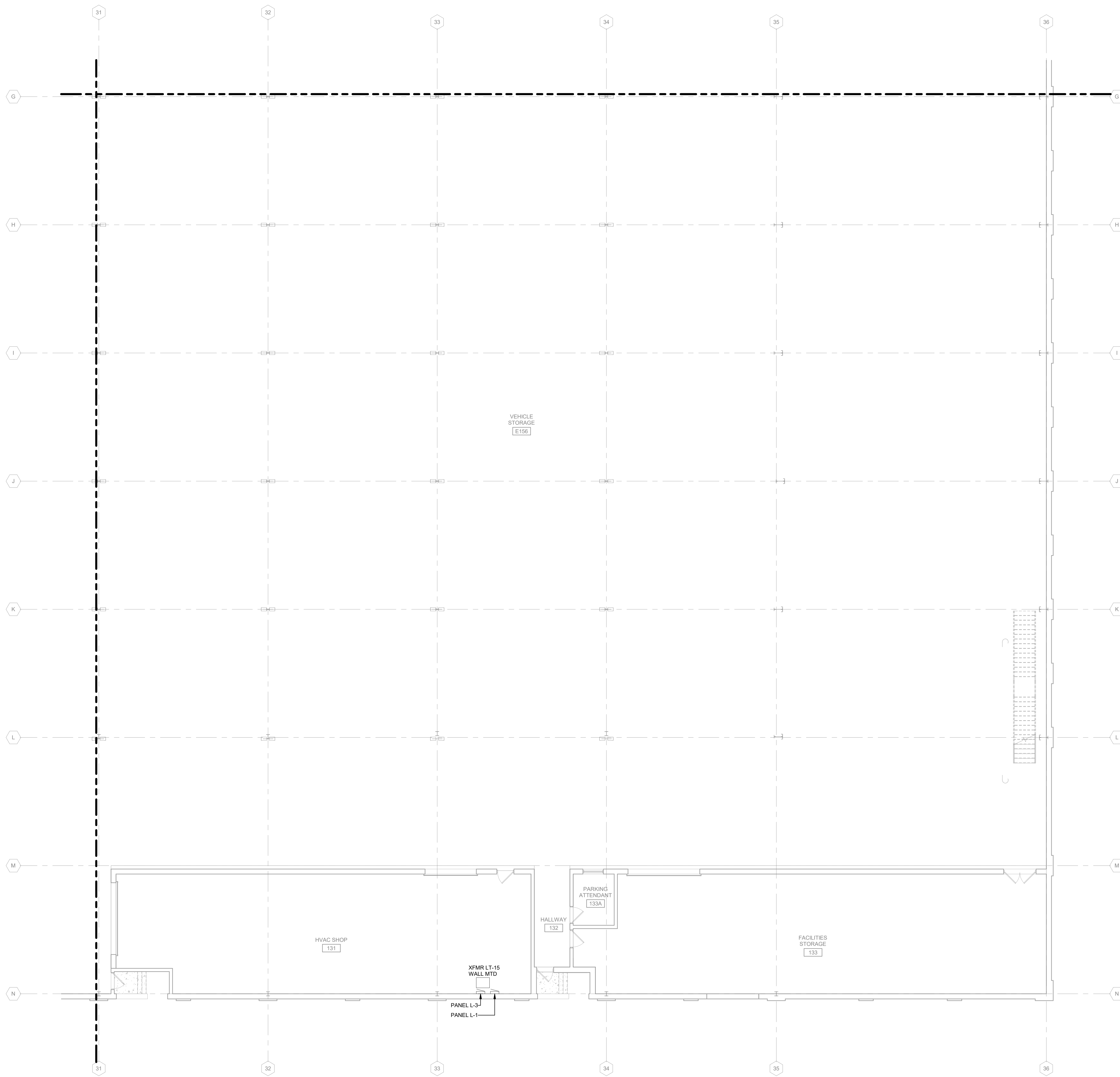
SHEET CONTENTS  
FIRST FLOOR  
POWER DEMOLITION  
PLAN - AREA J

SHEET NO.:

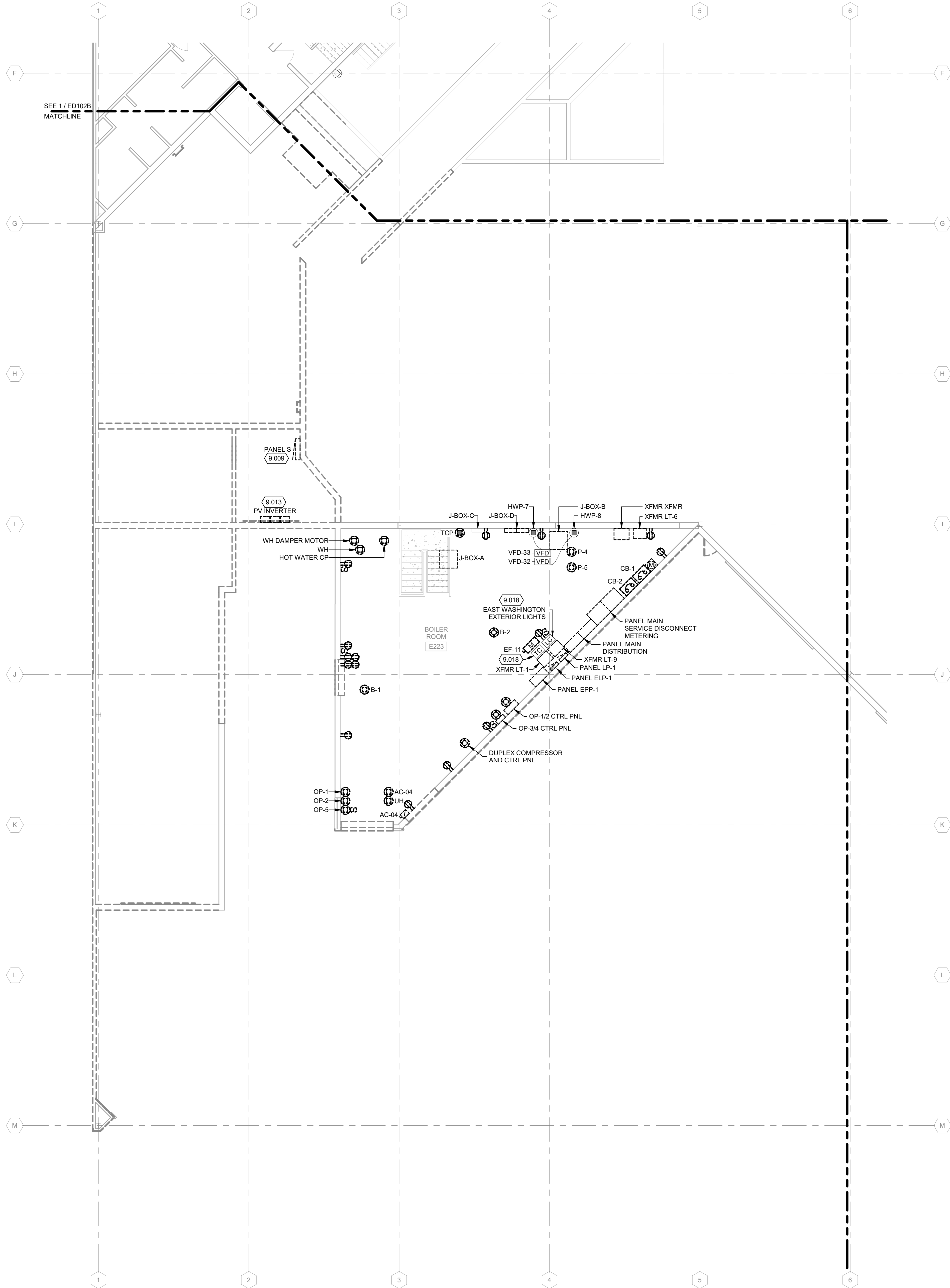
**ED101J**

**POWER DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.



**1 FIRST FLOOR POWER DEMOLITION PLAN - AREA J**  
1/8" = 1'-0"



**1** SECOND FLOOR POWER DEMOLITION PLAN - AREA A  
1/8" = 1'-0"

**POWER DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.

**KEYED NOTES**

- 9.009 PANEL S WILL BE DISCONNECTED AND RELOCATED BY CITY OF MADISON. REFER TO 1/E-102A FOR NEW LOCATION.
- 9.013 PV INVERTERS TO BE REMOVED AND RELOCATED BY CITY OF MADISON. REFER TO 1/E-102A FOR NEW LOCATION.
- 9.018 DISCONNECT AND REMOVE BRANCH WIRING BACK TO SOURCE. TIME CLOCK AND LIGHTING CONTROLLER TO REMAIN IN PLACE FOR CONNECTION TO NEW BRANCH CIRCUIT AS SHOWN ON 1/E-102A.

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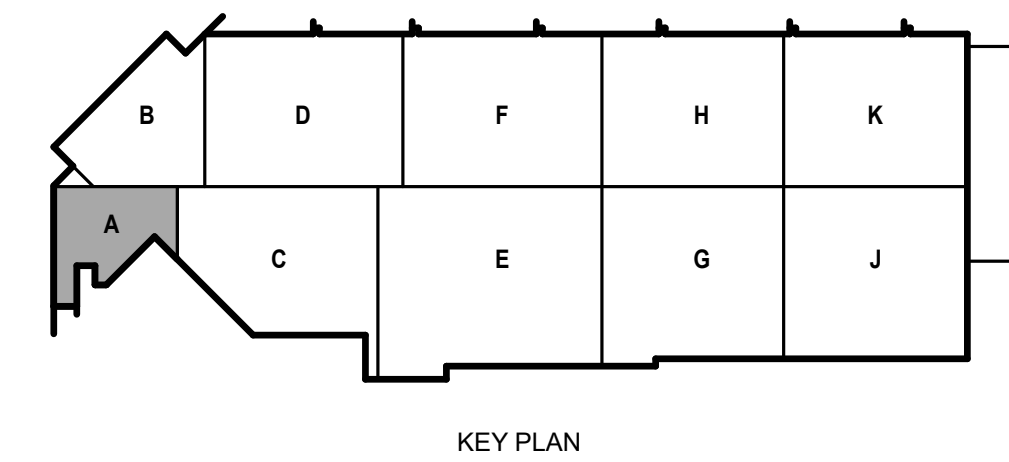
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CHECKED BY: SDL  
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SHEET CONTENTS  
SECOND FLOOR  
POWER DEMOLITION  
PLAN - AREA A

SHEET NO.:

**ED102A**



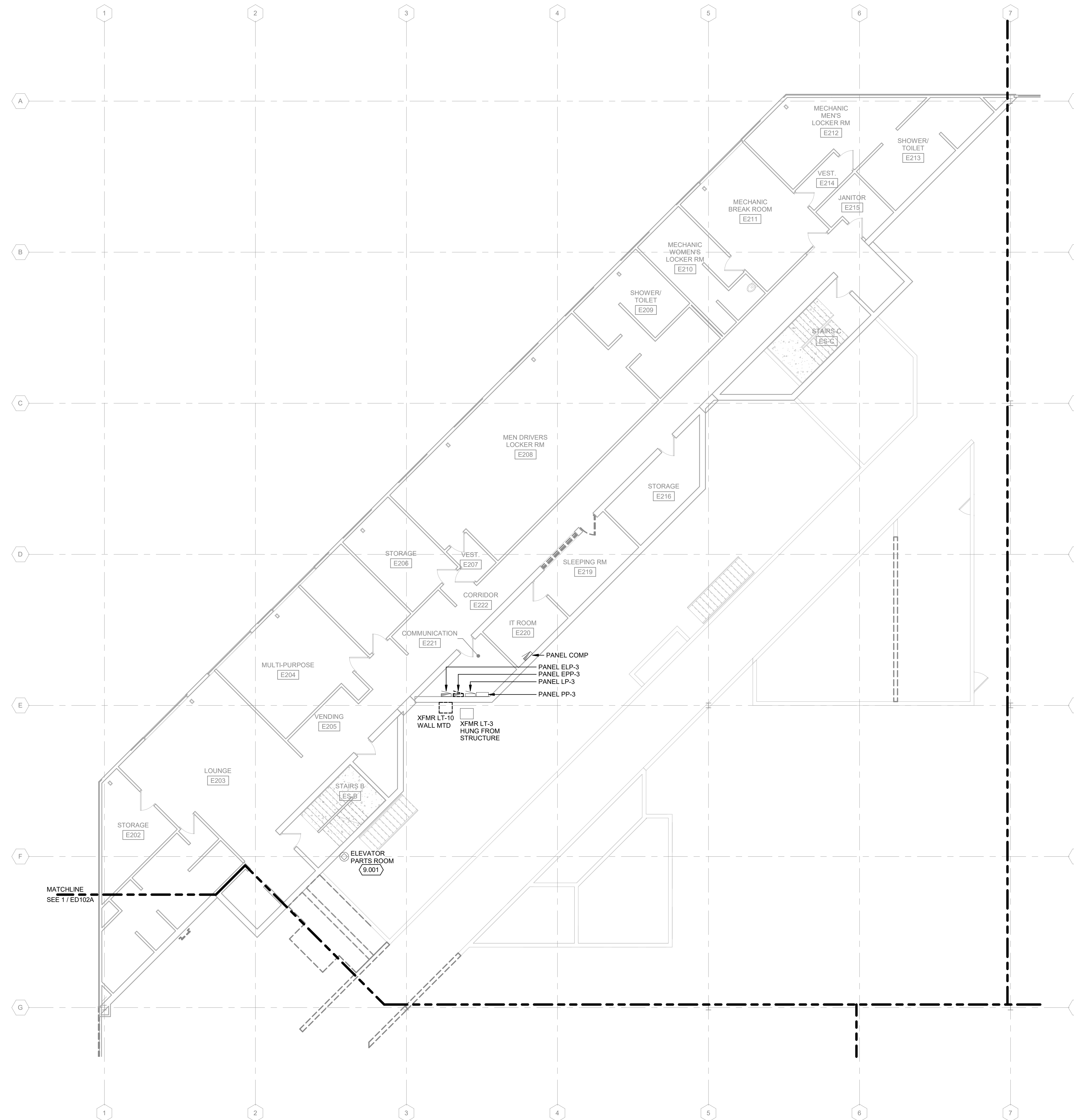
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**POWER DEMOLITION GENERAL NOTES:**

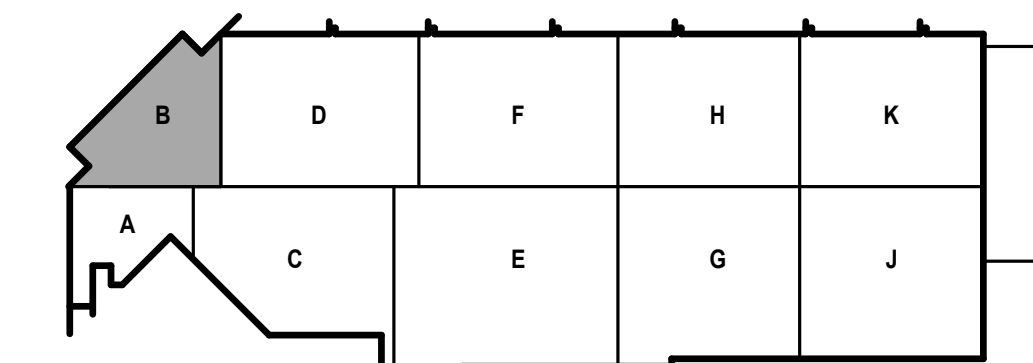
1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.

**KEYED NOTES**

- 9.001 DISCONNECT AND INTERCEPT EXISTING CIRCUITS NOT DEMOLISHED AS PART OF PHASE 3A. REFER TO DRAWING ED801 FOR EXISTING PANELBOARD CIRCUIT DIRECTORY FOR CIRCUITS TO BE MAINTAINED AND EXTENDED.



**1 SECOND FLOOR POWER DEMOLITION PLAN - AREA B**  
1/8" = 1'-0"



KEY PLAN



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SHEET CONTENTS  
SECOND FLOOR  
POWER DEMOLITION  
PLAN - AREA B

SHEET NO.:

**POWER DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.

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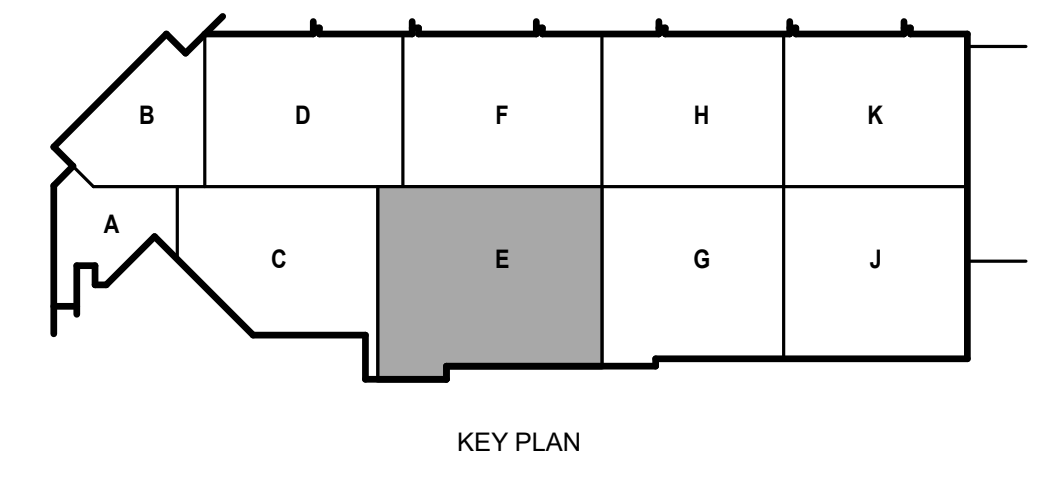
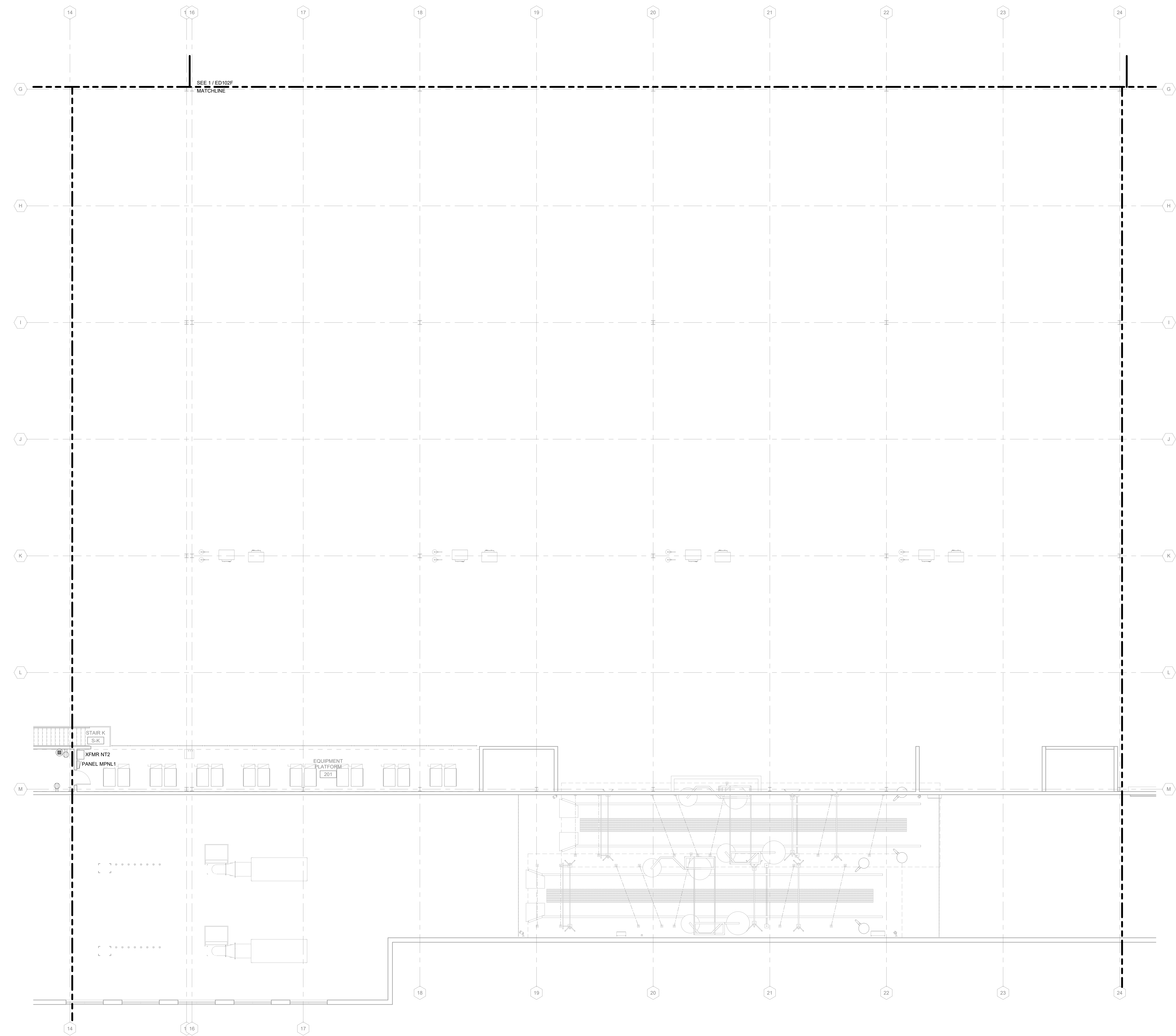
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SHEET CONTENTS  
 SECOND FLOOR  
 POWER DEMOLITION  
 PLAN - AREA E

SHEET NO.:

**ED102E**



**1** SECOND FLOOR POWER DEMOLITION PLAN - AREA E  
 1/8" = 1'-0"

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**POWER DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.

**KEYED NOTES**

- 9.001 DISCONNECT AND INTERCEPT EXISTING CIRCUITS NOT DEMOLISHED AS PART OF PHASE 3A. REFER TO DRAWING ED001 FOR EXISTING PANELBOARD CIRCUIT DIRECTORY FOR CIRCUITS TO BE MAINTAINED AND EXTENDED.
- 9.011 DISCONNECT AND REMOVE DEVICE AND BRANCH CIRCUIT BACK TO SOURCE. BACKBOX AND CONDUIT TO REMAIN ABANDONED IN PLACE. PROVIDE BLANK COVER PLATE.
- 9.022 PULL BOX CONTAINS FEEDER AND ASSOCIATED CONDUITS FOR PANELS 'MDS' AND 'EPT-1'. IN ADDITION, PULL BOX CONTAINS SEVERAL UNDETERMINED FEEDERS AND BRANCH WIRING. EC TO DETERMINE ADDITIONAL FEEDERS AND WIRING AND IDENTIFY. IF FEEDERS AND BRANCH WIRING SERVE EQUIPMENT AND/OR DEVICES TO BE REMOVED AS PART OF THIS PHASE REMOVE ALL WIRING AND ASSOCIATED CONDUITS.

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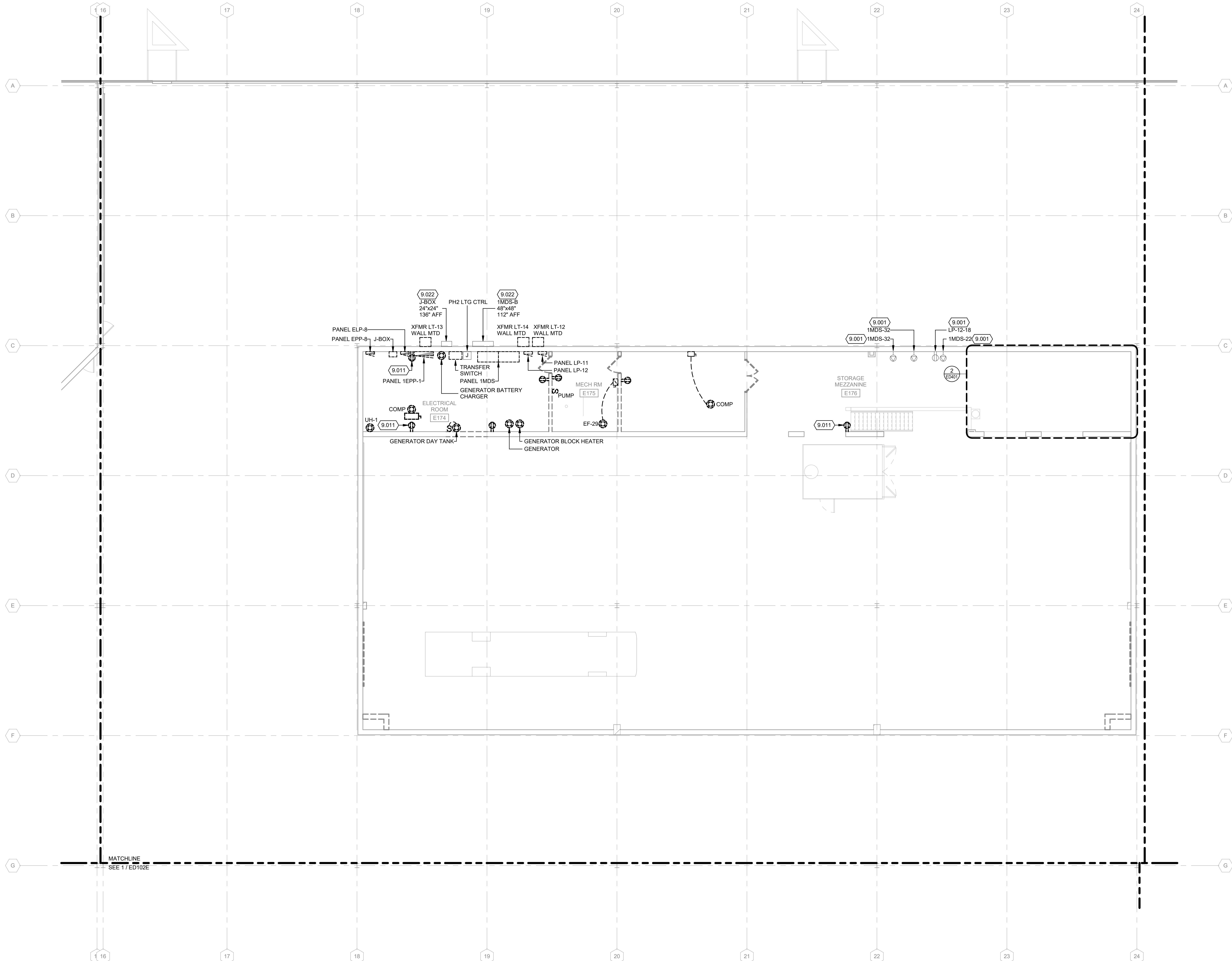
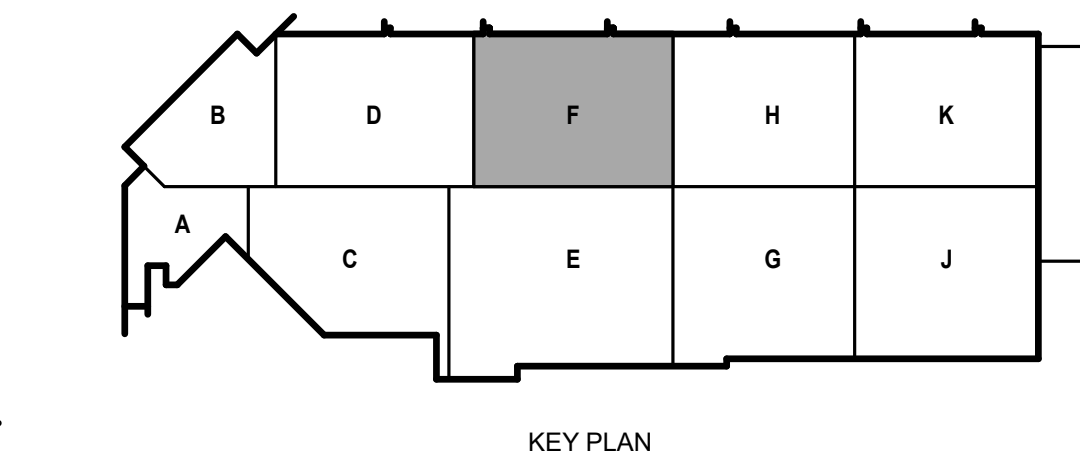
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SHEET CONTENTS  
SECOND FLOOR  
POWER DEMOLITION  
PLAN - AREA F

SHEET NO.:

**ED102F**



**1** SECOND FLOOR POWER DEMOLITION PLAN - AREA F  
1/8" = 1'-0"

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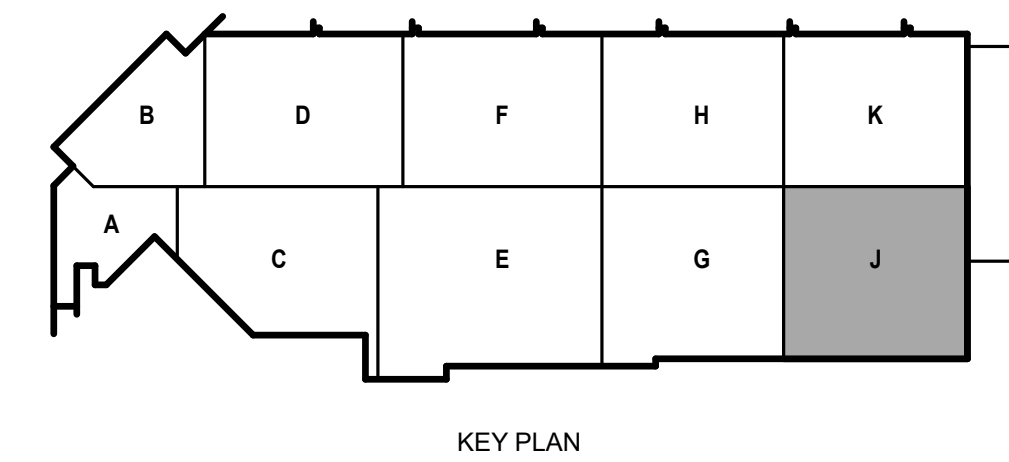
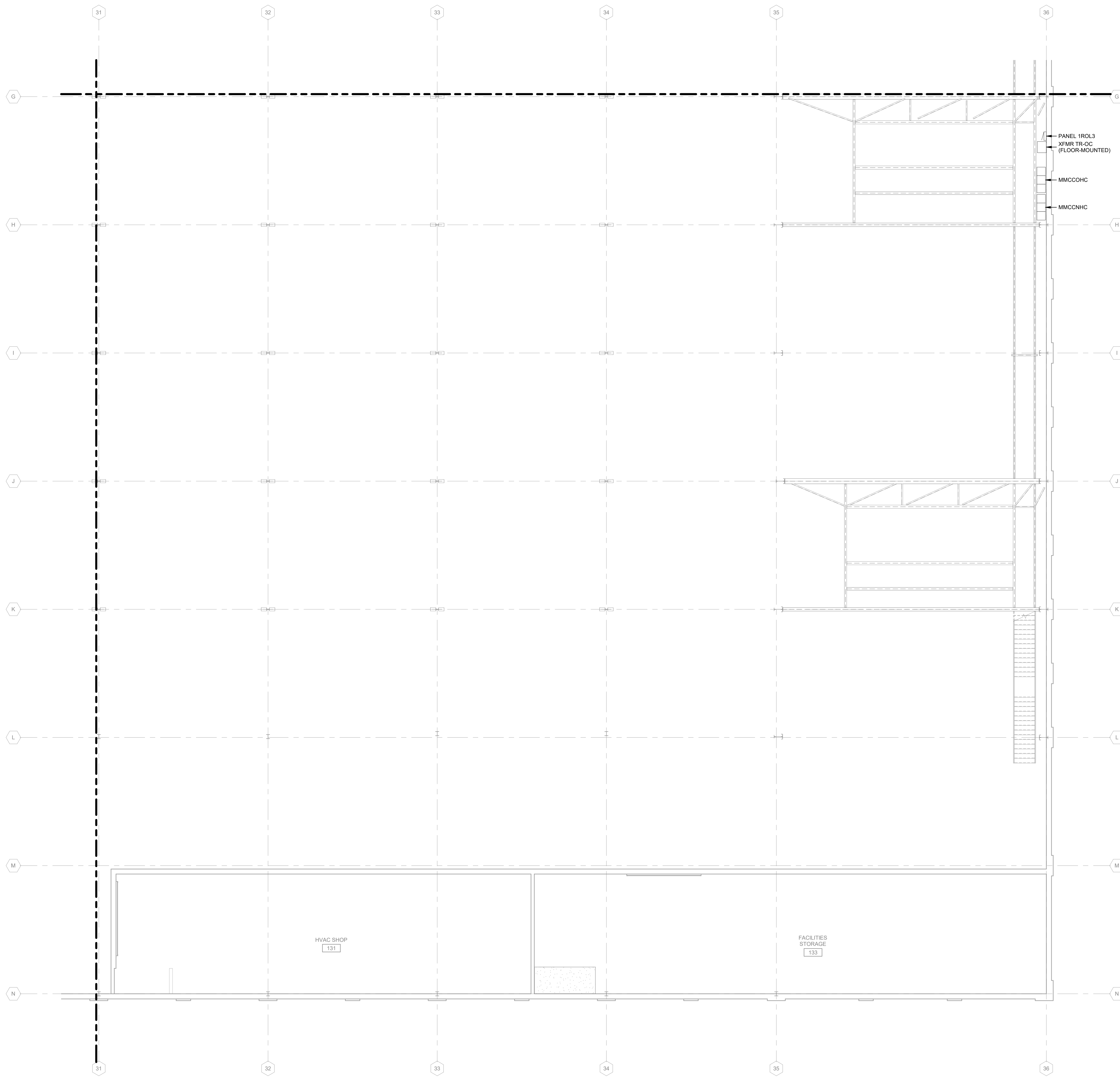
SHEET CONTENTS  
SECOND FLOOR  
POWER DEMOLITION  
PLAN - AREA J

SHEET NO.:

**ED102J**

**POWER DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.



**1** SECOND FLOOR POWER DEMOLITION PLAN - AREA J  
1/8" = 1'-0"



**POWER DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.

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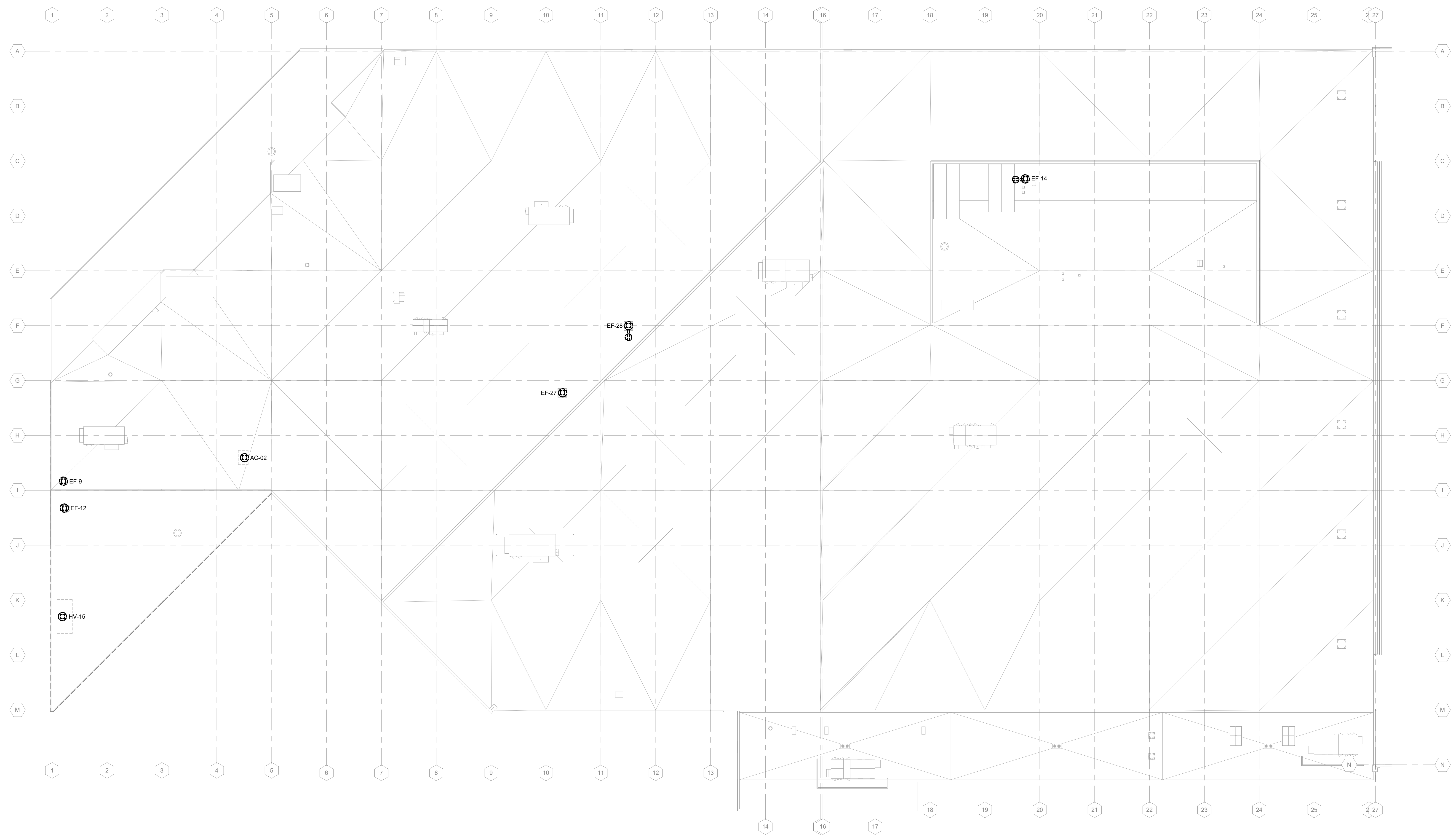
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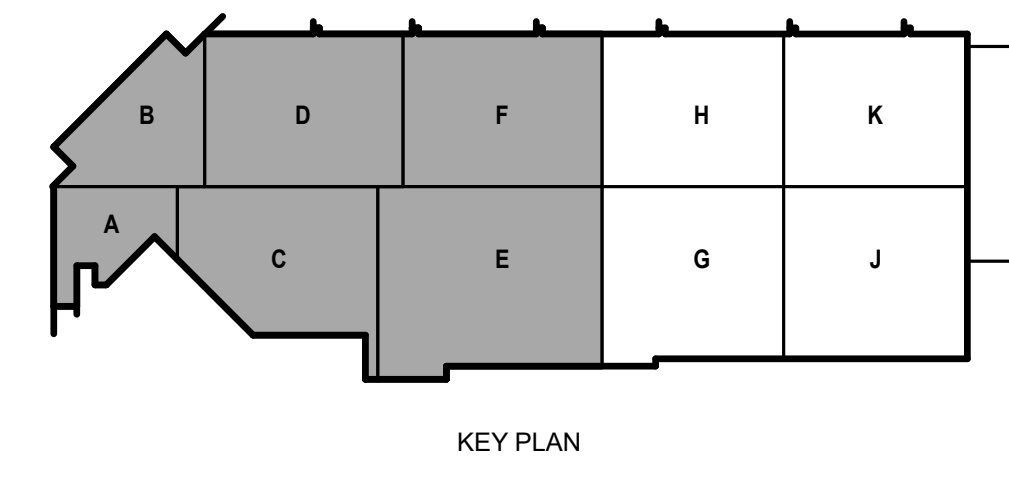
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SHEET CONTENTS  
ROOF POWER  
DEMOLITION PLAN -  
AREAS A,B,C,D,E,F

SHEET NO.:

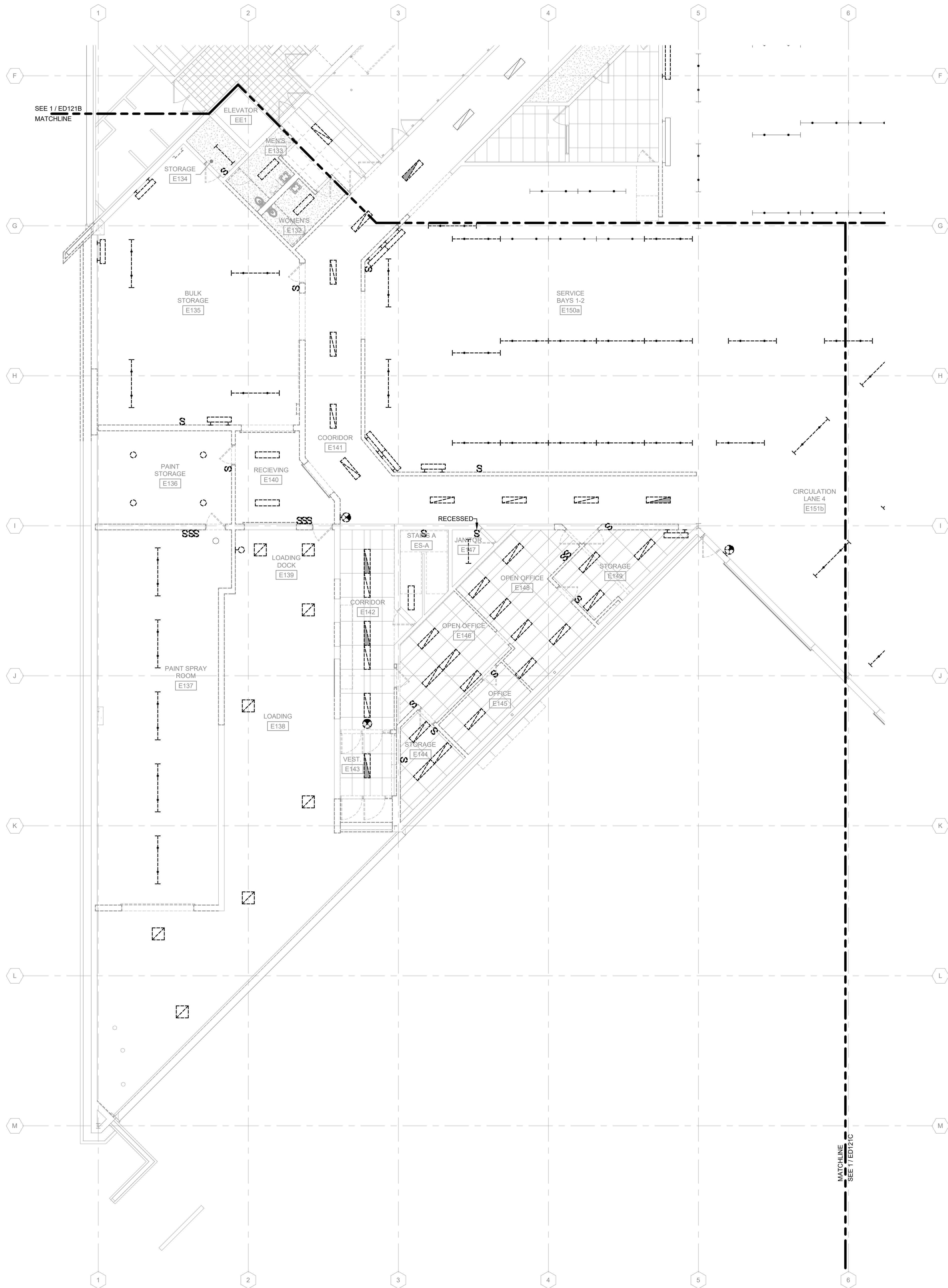
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**1** ROOF POWER DEMOLITION PLAN - AREAS A,B,C,D,E,F  
1" = 20'-0"



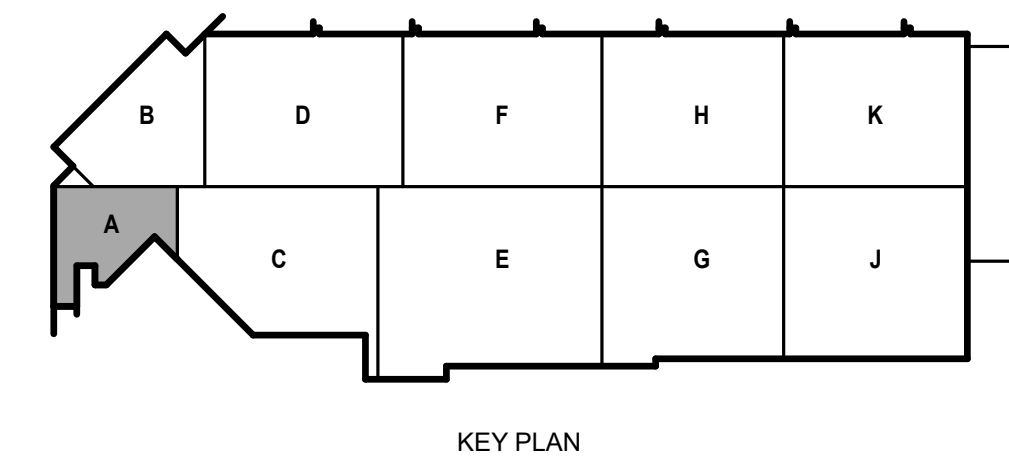
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**LIGHTING DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.

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



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SHEET CONTENTS  
FIRST FLOOR  
LIGHTING  
DEMOLITION PLAN -  
AREA A

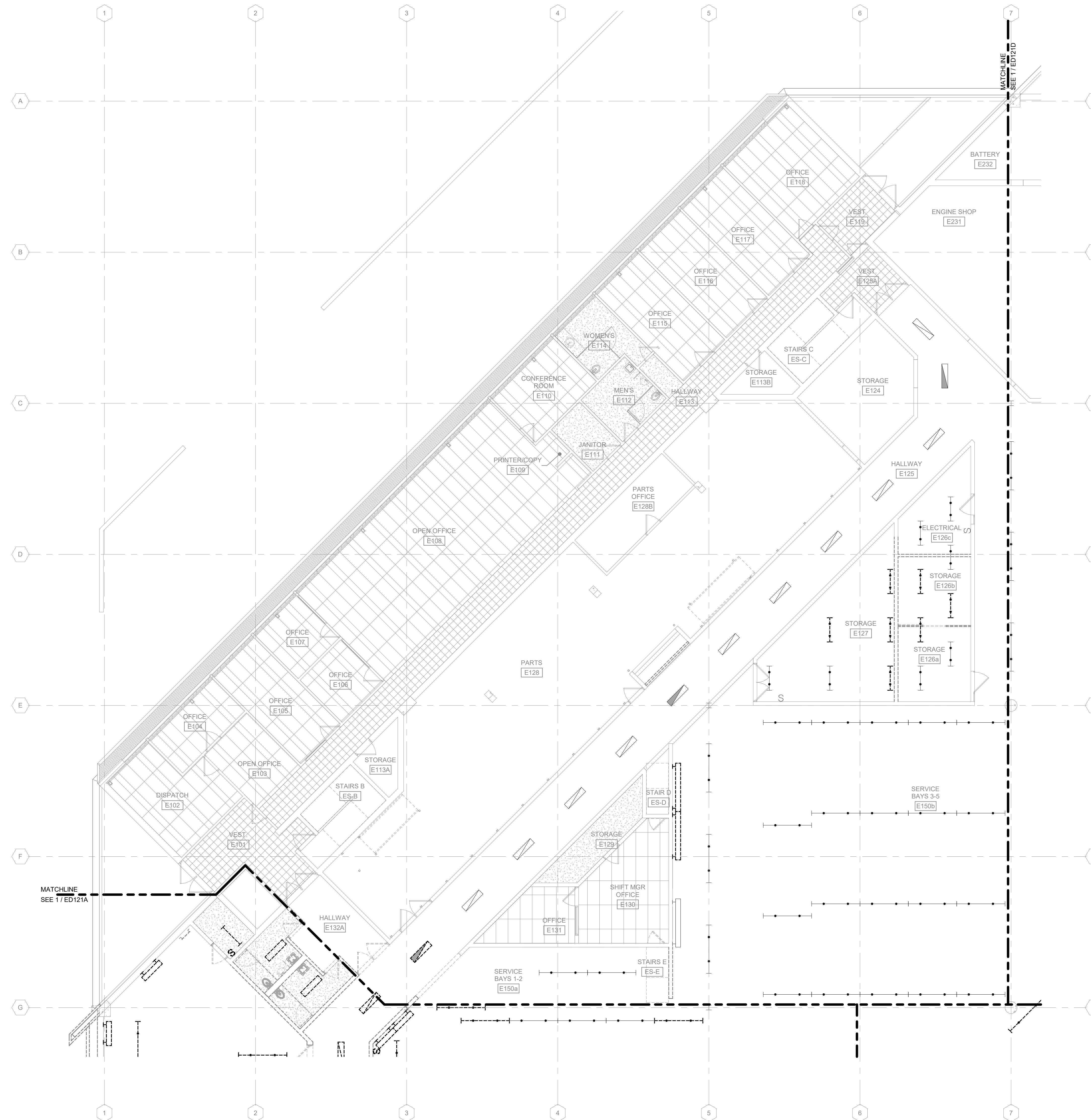
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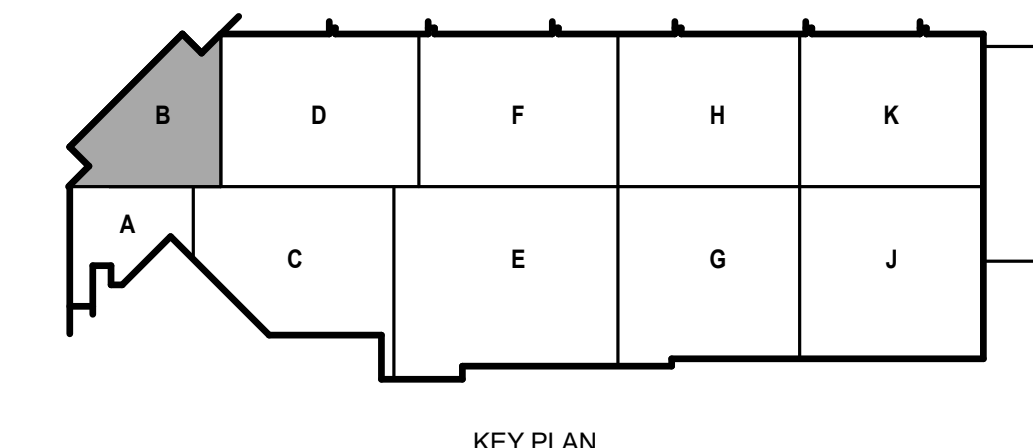
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**LIGHTING DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.



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



KEY PLAN

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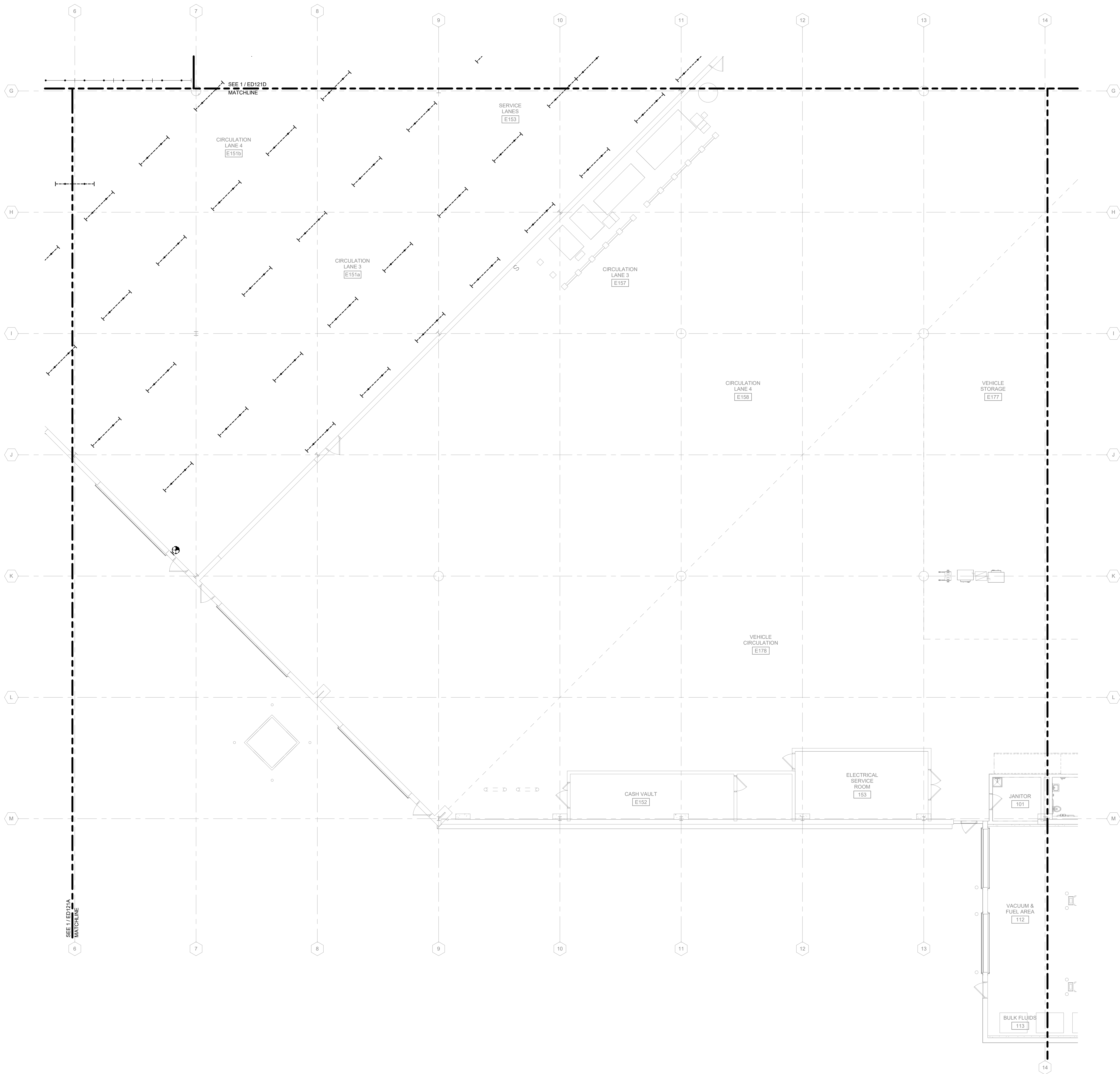
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SHEET CONTENTS  
FIRST FLOOR  
LIGHTING  
DEMOLITION PLAN -  
AREA B

SHEET NO.:

**ED121B**



**LIGHTING DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.

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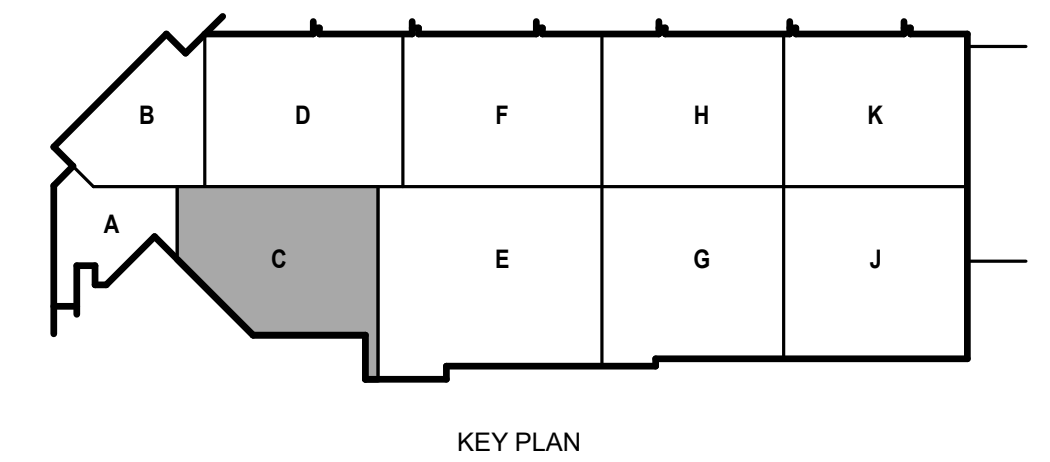
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 CHECKED BY: SDL

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 SHEET CONTENTS  
 FIRST FLOOR  
 LIGHTING  
 DEMOLITION PLAN -  
 AREA C

SHEET NO.:

**ED121C**



**1 FIRST FLOOR LIGHTING DEMOLITION PLAN - AREA C**  
 1/8" = 1'-0"

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**LIGHTING DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.

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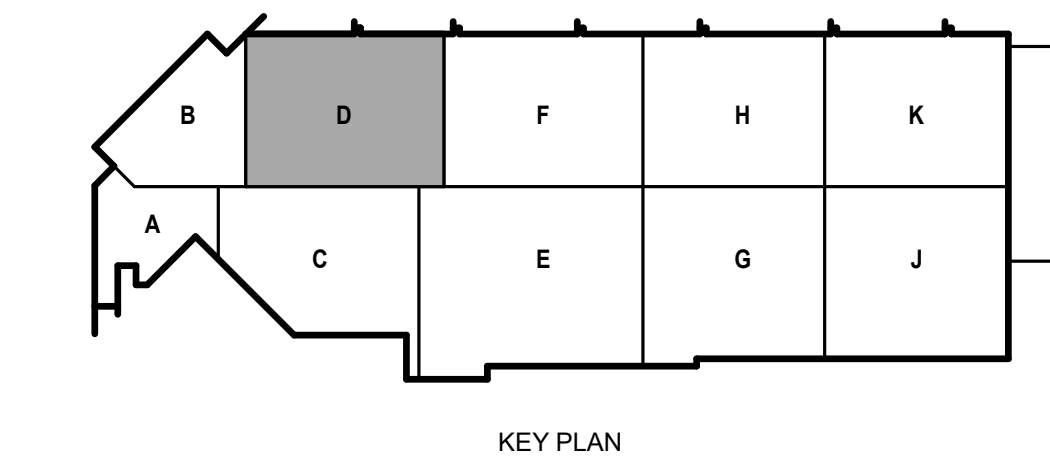
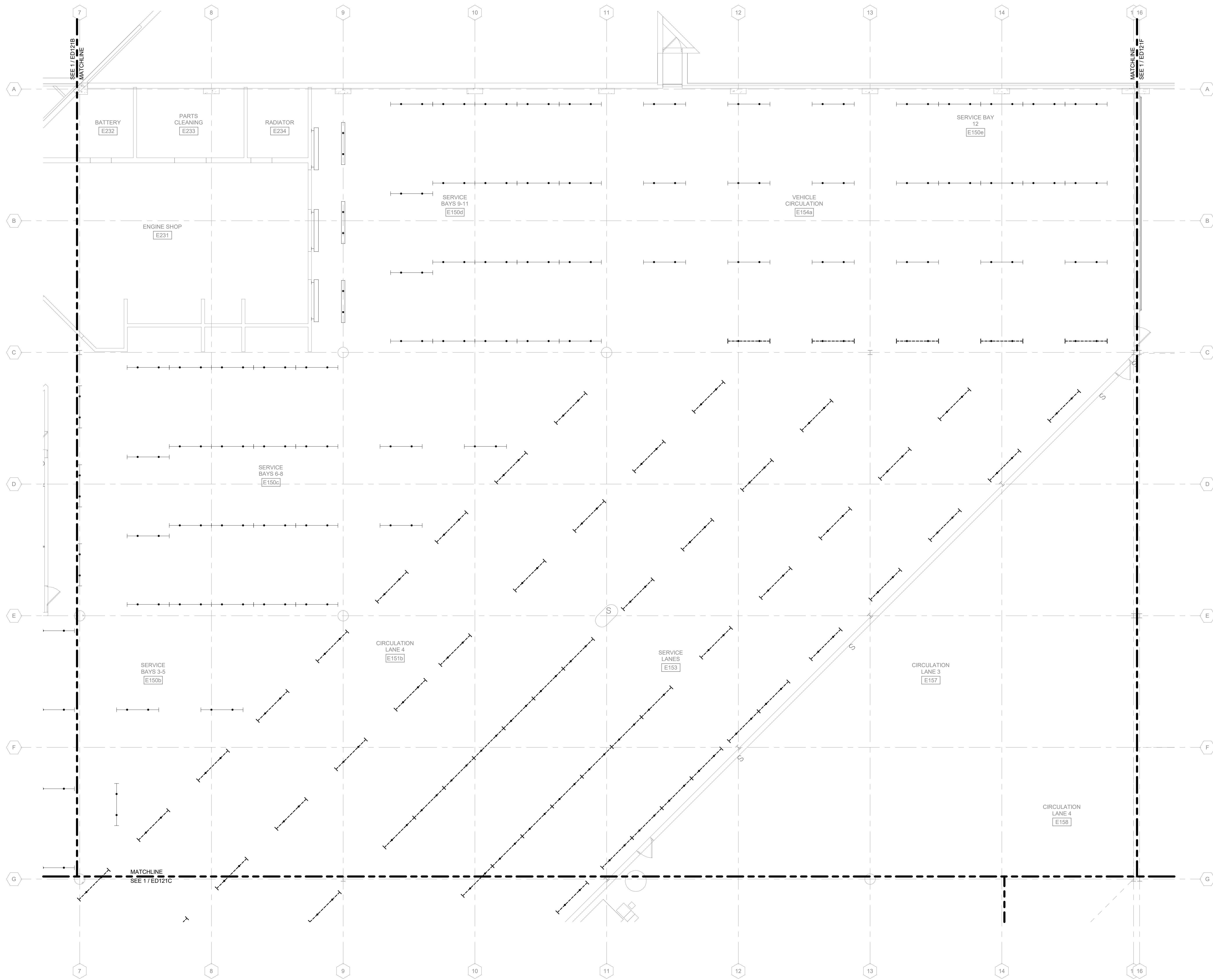
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SHEET CONTENTS  
FIRST FLOOR  
LIGHTING  
DEMOLITION PLAN -  
AREA D

SHEET NO.:

**ED121D**



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

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**LIGHTING DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.

**KEYED NOTES**

9.043 DISCONNECT AND REMOVE DEVICE ONLY. LIGHTING BRANCH CIRCUIT WIRING TO REMAIN IN PLACE FOR CONNECTION TO NEW DEVICE AS SHOWN ON DRAWING 1E-121F.

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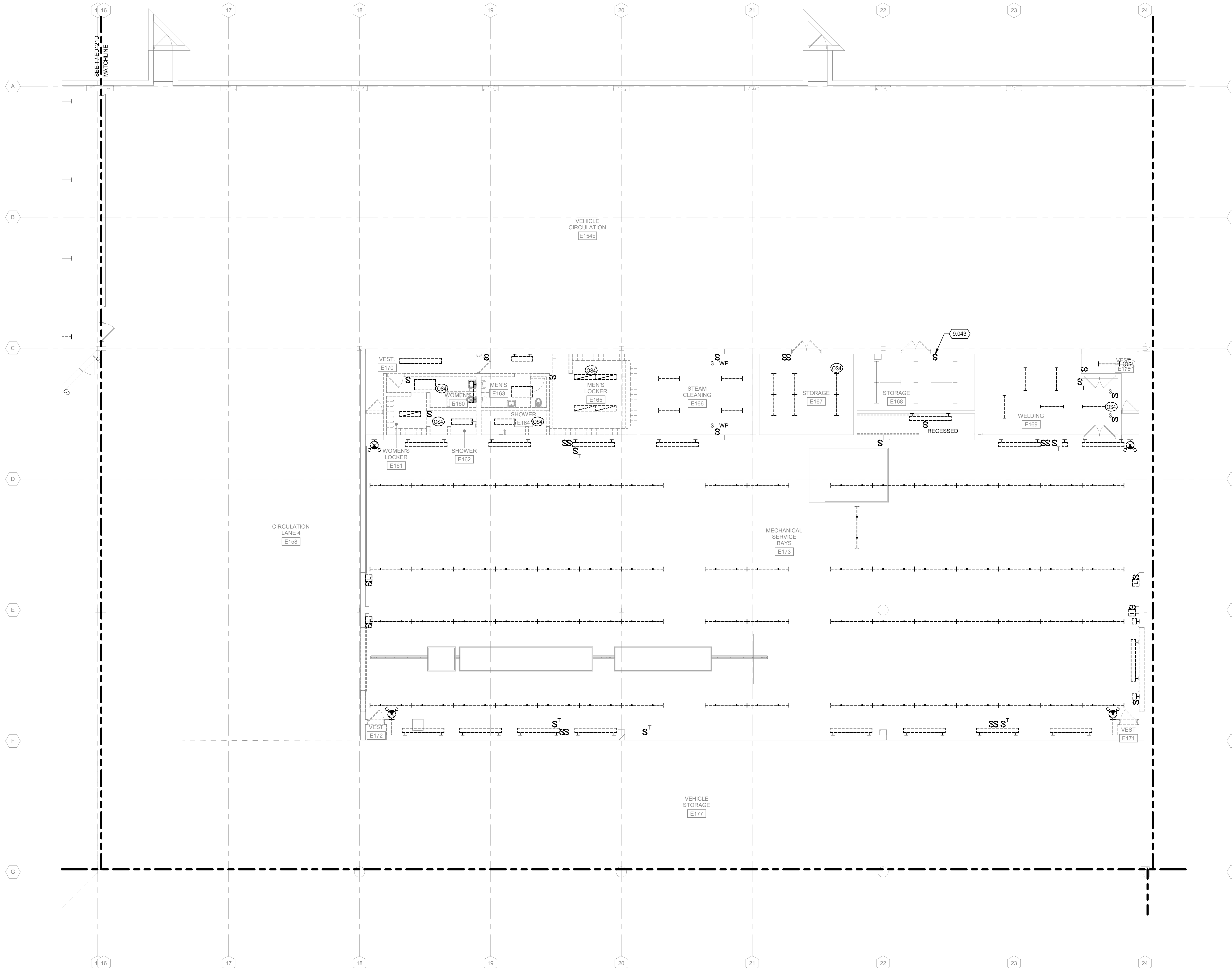
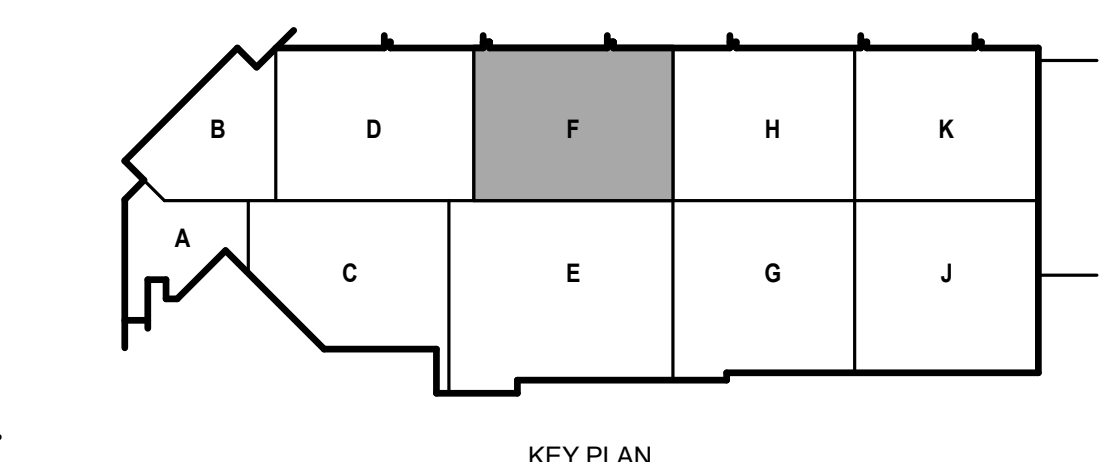
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SHEET CONTENTS  
FIRST FLOOR  
LIGHTING  
DEMOLITION PLAN - AREA F

SHEET NO.:

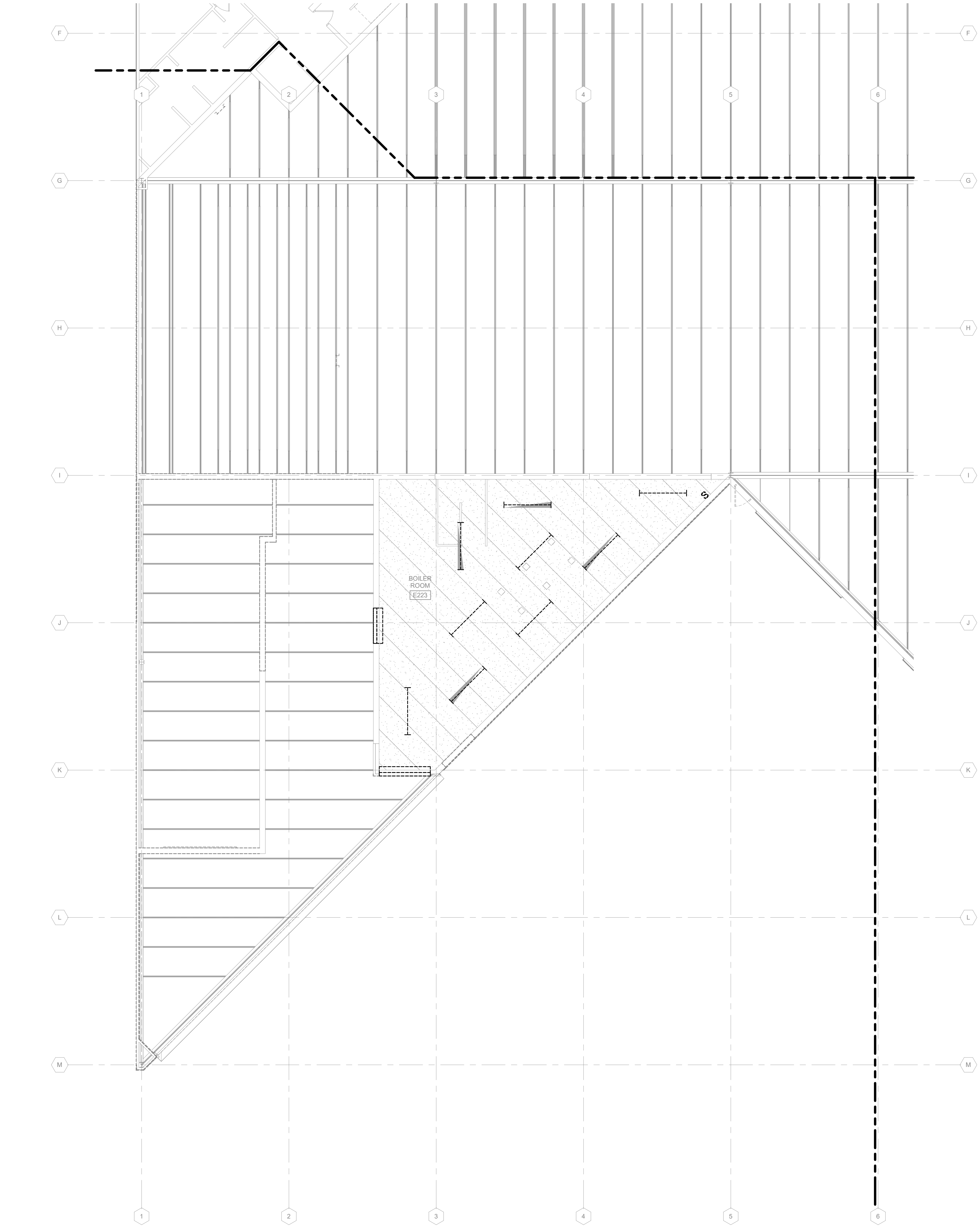
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**1** FIRST FLOOR LIGHTING DEMOLITION PLAN - AREA F  
1/8" = 1'-0"

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**1** SECOND FLOOR LIGHTING DEMOLITION PLAN - AREA A  
1/8" = 1'-0"

**LIGHTING DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.

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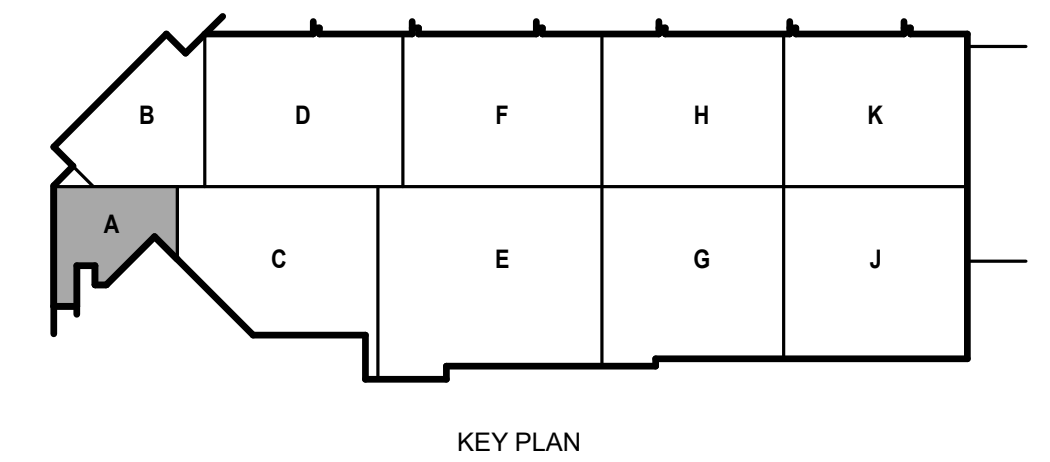
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 SHEET CONTENTS  
 SECOND FLOOR  
 LIGHTING  
 DEMOLITION PLAN -  
 AREA A

SHEET NO.:

**ED122A**



KEY PLAN

**LIGHTING DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.

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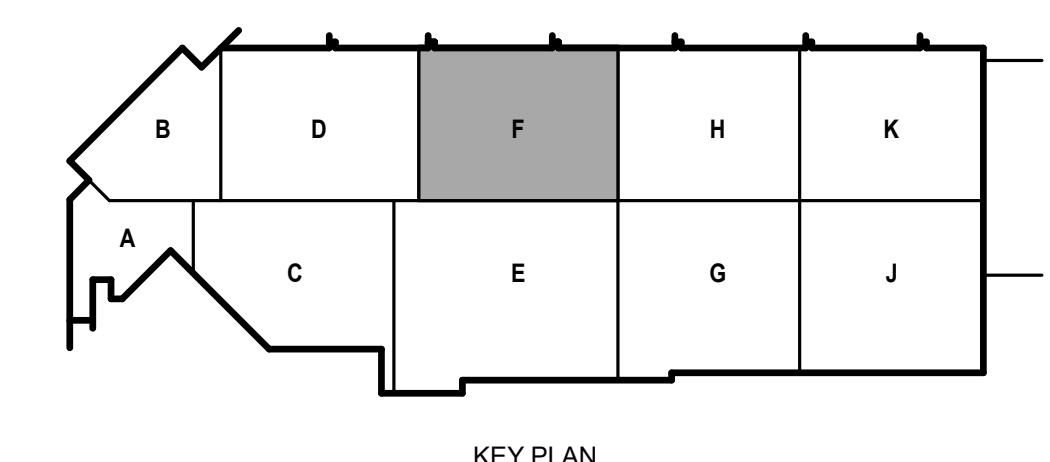
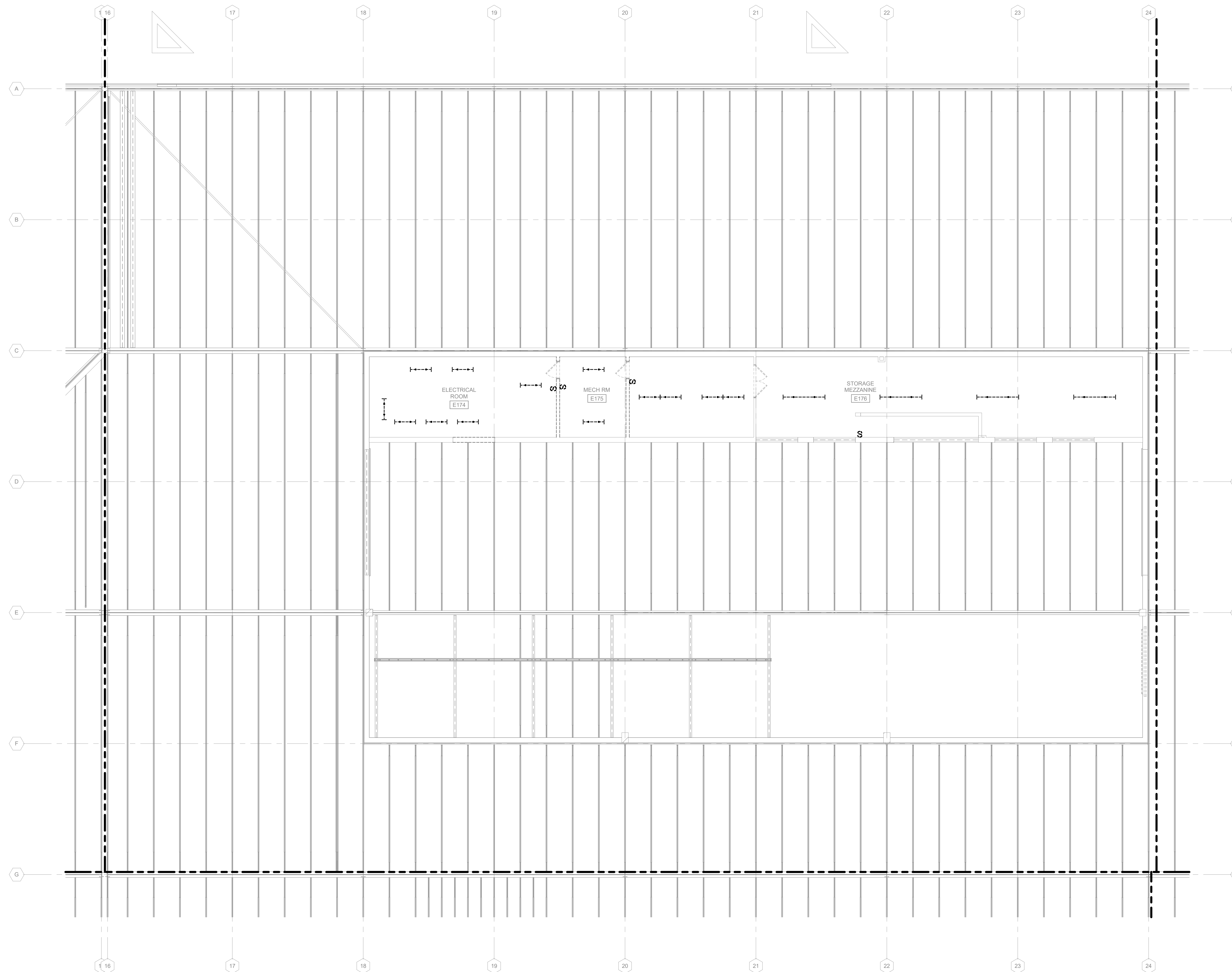
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DATE: APRIL 8, 2021  
DESIGNED BY: MAM  
DRAWN BY: KAS  
CHECKED BY: SDL

DO NOT SCALE DRAWINGS  
SHEET CONTENTS  
SECOND FLOOR  
LIGHTING  
DEMOLITION PLAN -  
AREA F

SHEET NO.:

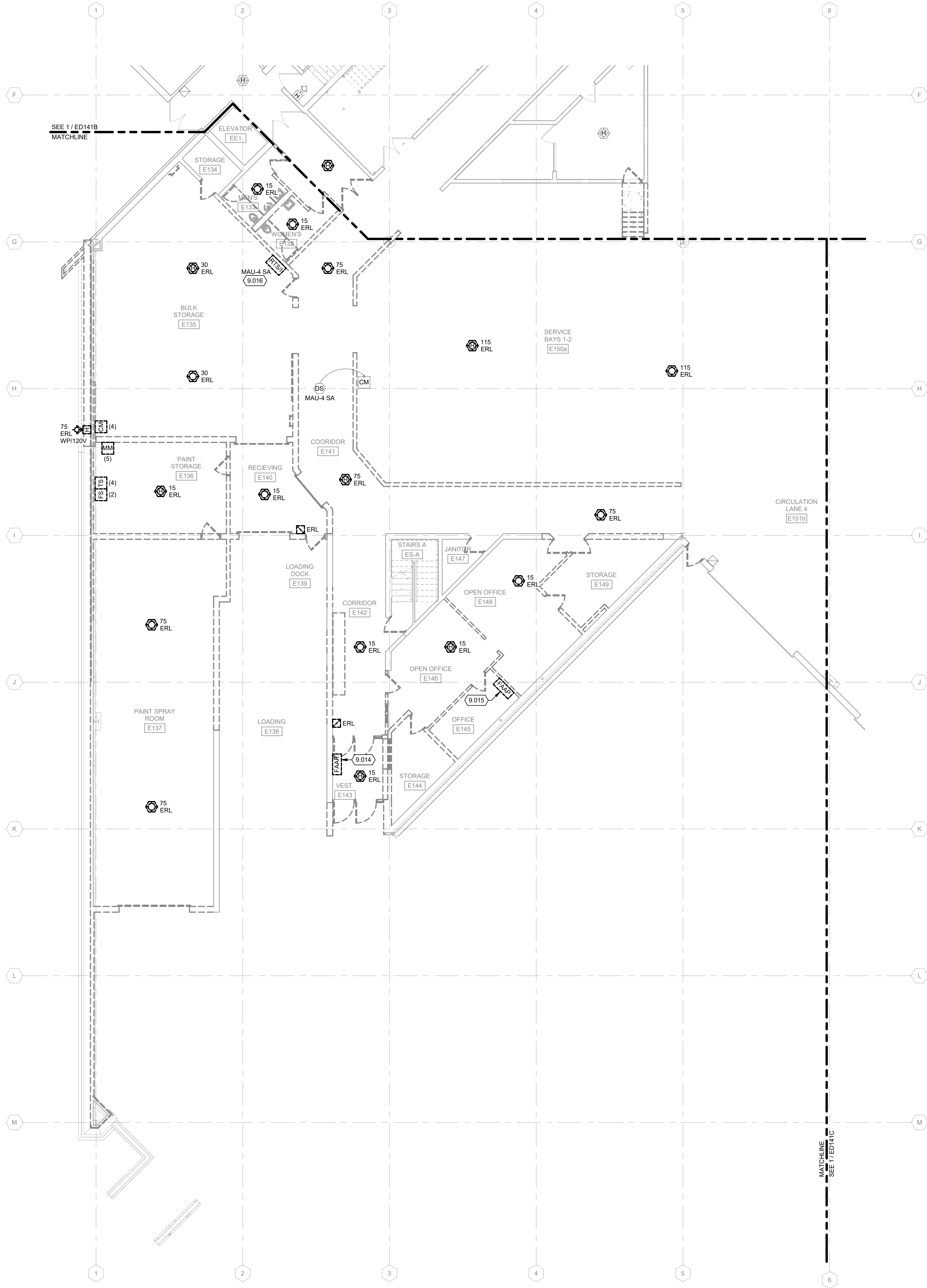
**ED122F**



**1 SECOND FLOOR LIGHTING DEMOLITION PLAN - AREA F**  
1/8" = 1'-0"

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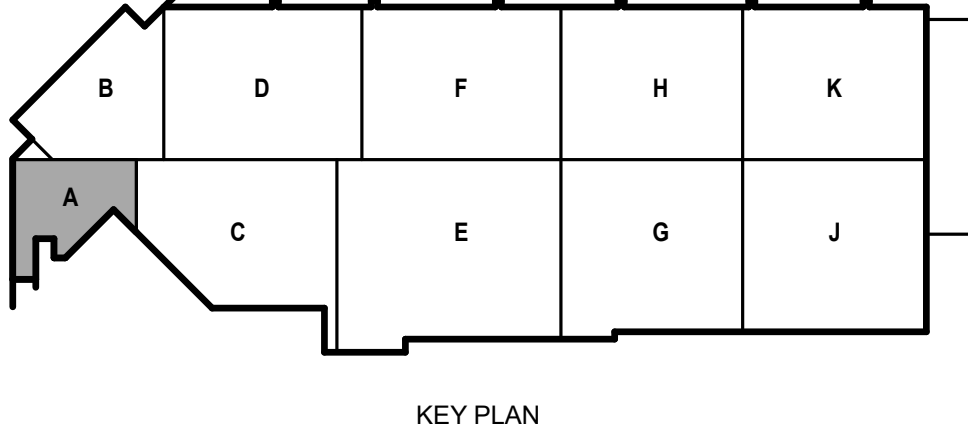
**FIRE ALARM DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. ALL EXISTING AUDIBLE AND VISUAL NOTIFICATION DEVICES ARE SYSTEM SENSOR SPECTRALITY WITH FIELD SELECTABLE CANDELA SETTINGS. WHERE VISUAL DEVICES ARE RELOCATED, ADJUST CANDELA RATING AS SHOWN ON REVISED FLOOR PLANS.

**KEYED NOTES**

- 9.014 RELOCATE EXISTING SURFACE MOUNTED FIRE ALARM ANNUNCIATOR PANEL TO NEW VESTIBULE 1101. REFER TO 1/E-141A. REWORK AND EXTEND WIRING TO NEW LOCATION.
- 9.015 RELOCATE EXISTING SURFACE MOUNTED FIRE ALARM ANNUNCIATOR PANEL TO SHIFT MANGER OFFICE E131. REFER TO DRAWING 1/E-141B. REWORK AND EXTEND WIRING TO NEW LOCATION.
- 9.016 RELOCATE REMOTE TEST SWITCH TO PARTS STORAGE 1237. REFER TO 1/E-141A.

**1 FIRST FLOOR FIRE ALARM DEMOLITION PLAN - AREA A**  
1/8" = 1'-0"



**CITY OF MADISON  
METRO TRANSIT PHASE 3A - MAINTENANCE AND  
DRIVER FACILITY IMPROVEMENTS**  
1101 EAST WASHINGTON AVE.  
MADISON, WI 53703

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SHEET CONTENTS  
FIRST FLOOR FIRE  
ALARM DEMOLITION  
PLAN - AREA A

SHEET NO.:

**ED141A**

**FIRE ALARM DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. ALL EXISTING AUDIBLE AND VISUAL NOTIFICATION DEVICES ARE SYSTEM SENSOR SPECTRALERT WITH FIELD SELECTABLE CANDELA SETTINGS. WHERE VISUAL DEVICES ARE RELOCATED, ADJUST CANDELA RATING AS SHOWN ON REVISED FLOOR PLANS.

**Mead & Hunt**

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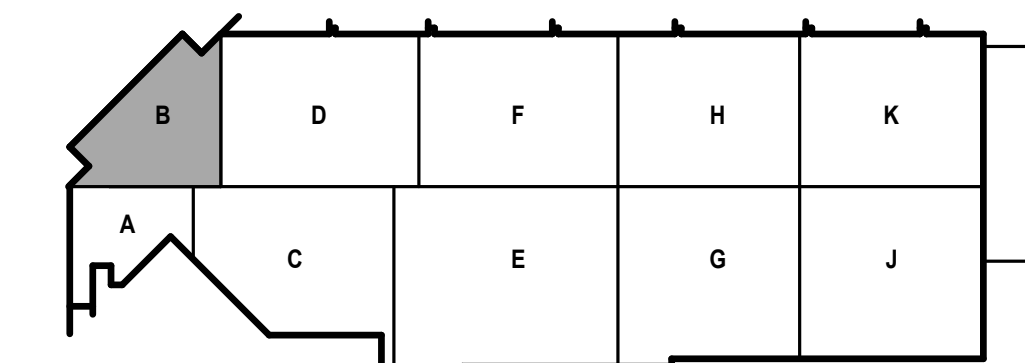
SHEET CONTENTS  
FIRST FLOOR FIRE ALARM DEMOLITION PLAN - AREA B

SHEET NO.:

**ED141B**



**1** FIRST FLOOR FIRE ALARM DEMOLITION PLAN - AREA B  
1/8" = 1'-0"



KEY PLAN

**FIRE ALARM DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. ALL EXISTING AUDIBLE AND VISUAL NOTIFICATION DEVICES ARE SYSTEM SENSOR "SPECTRALERT" WITH FIELD SELECTABLE CANDELA SETTINGS. WHERE VISUAL DEVICES ARE RELOCATED, ADJUST CANDELA RATING AS SHOWN ON REVISED FLOOR PLANS.

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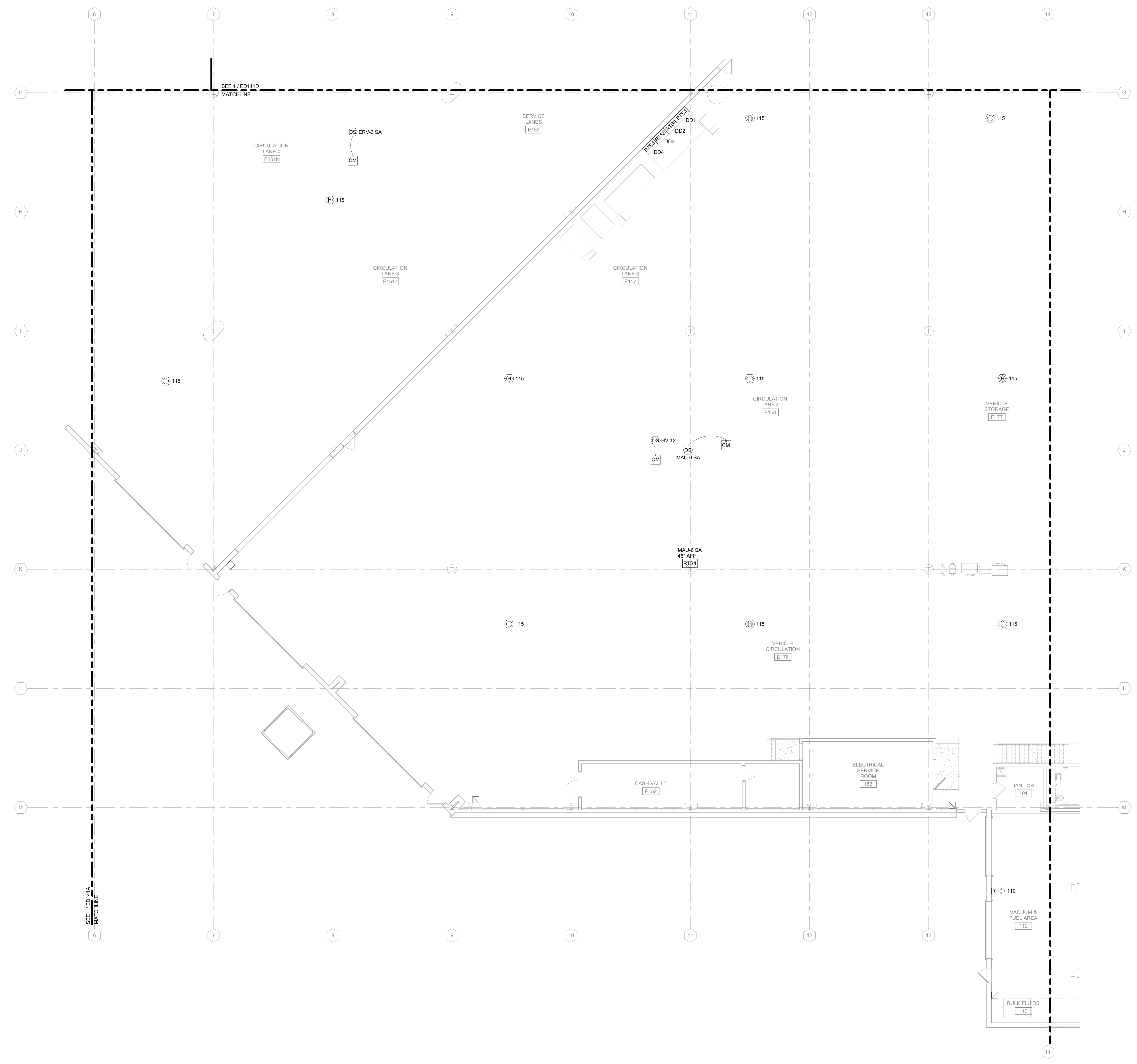
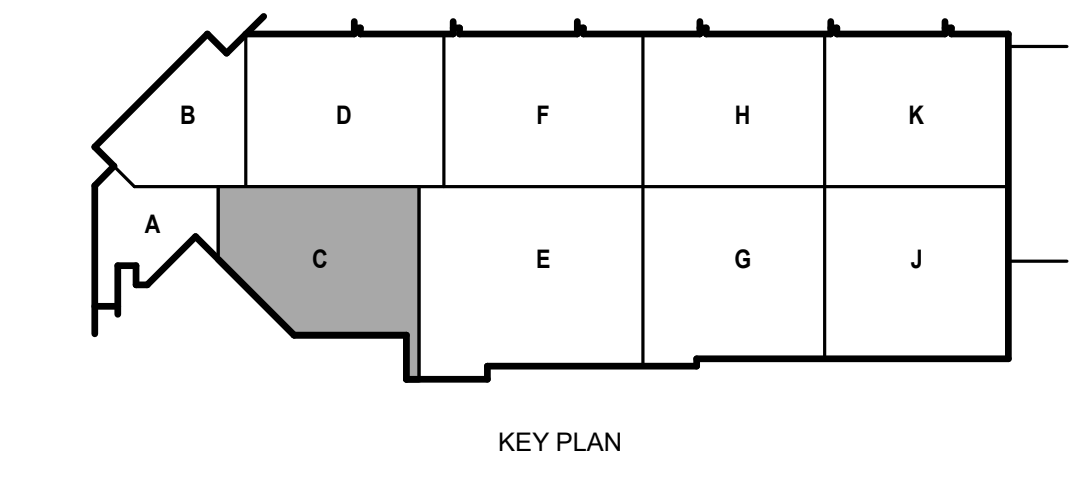
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 METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS  
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SHEET CONTENTS  
 FIRST FLOOR FIRE ALARM DEMOLITION PLAN - AREA C

SHEET NO.:  
**ED141C**



**1 FIRST FLOOR FIRE ALARM DEMOLITION PLAN - AREA C**  
1/8" = 1'-0"

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**FIRE ALARM DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. ALL EXISTING AUDIBLE AND VISUAL NOTIFICATION DEVICES ARE SYSTEM SENSOR "SPECTRALERT" WITH FIELD SELECTABLE CANDELA SETTINGS. WHERE VISUAL DEVICES ARE RELOCATED, ADJUST CANDELA RATING AS SHOWN ON REVISED FLOOR PLANS.

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metro transit

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MADISON, WI 53703**

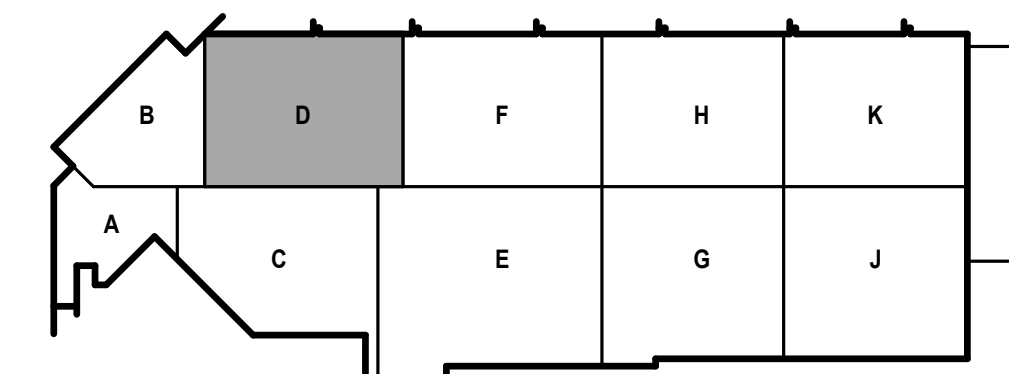
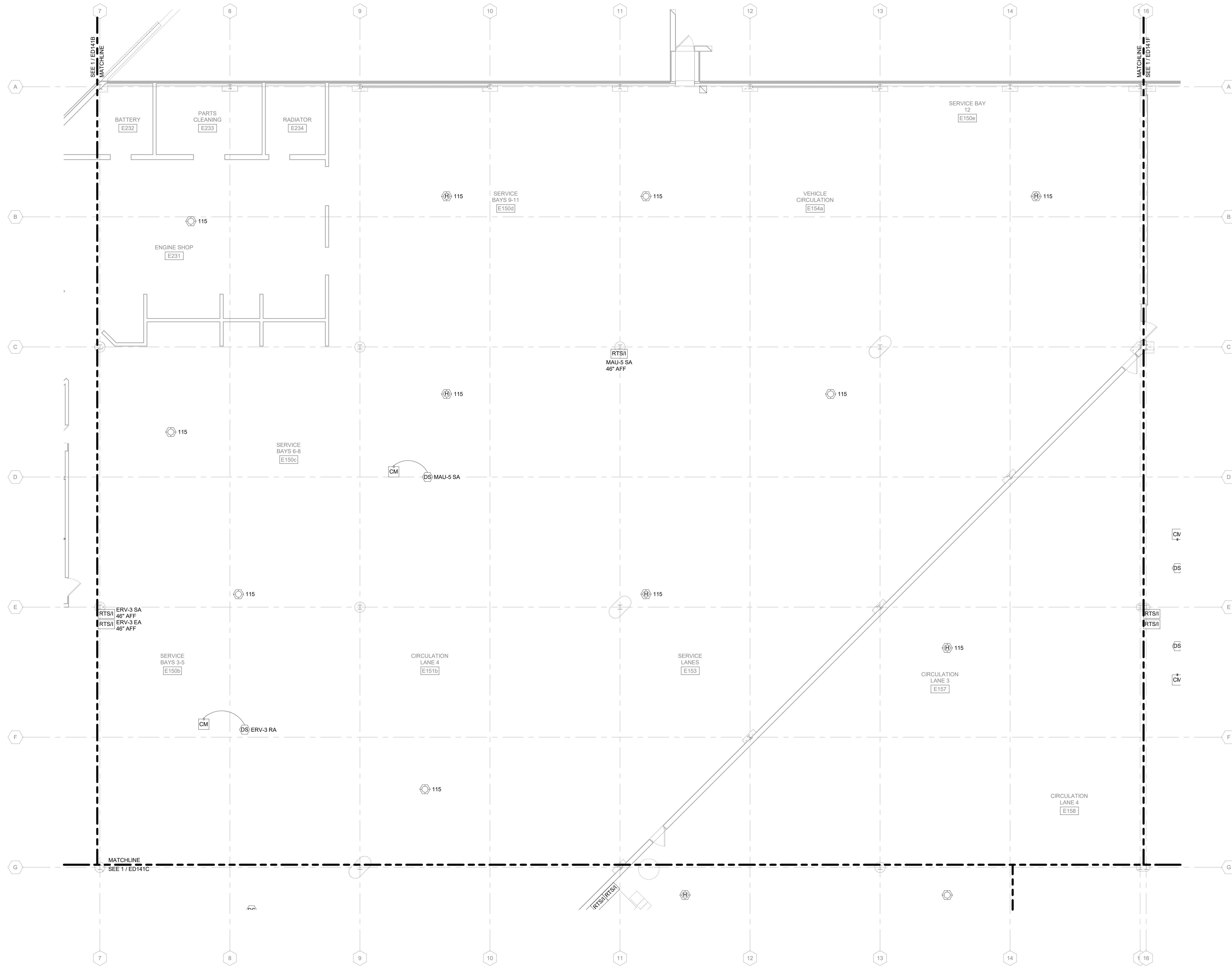
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RFP NO.: 4503500-1908996.03  
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**SHEET CONTENTS**  
FIRST FLOOR FIRE ALARM DEMOLITION PLAN - AREA D

SHEET NO.:

**ED141D**



**1** FIRST FLOOR FIRE ALARM DEMOLITION PLAN - AREA D  
1/8" = 1'-0"

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**FIRE ALARM DEMOLITION GENERAL NOTES:**

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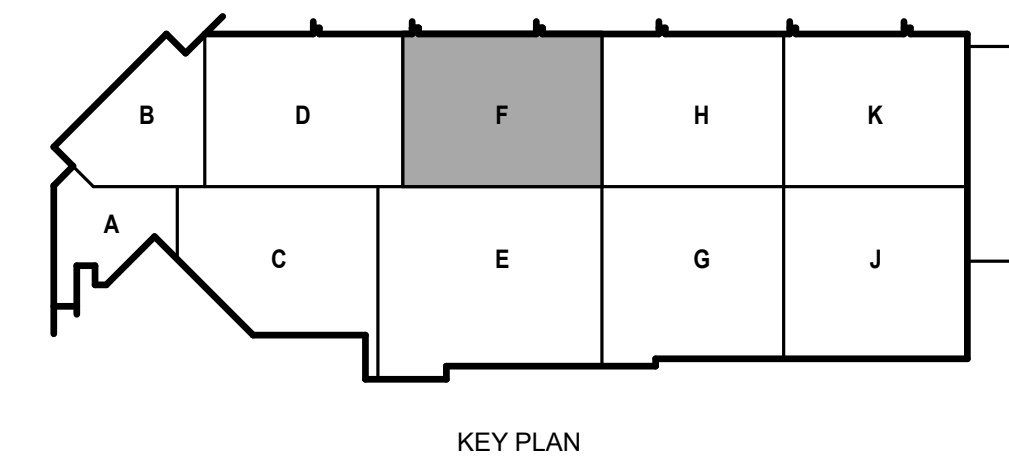
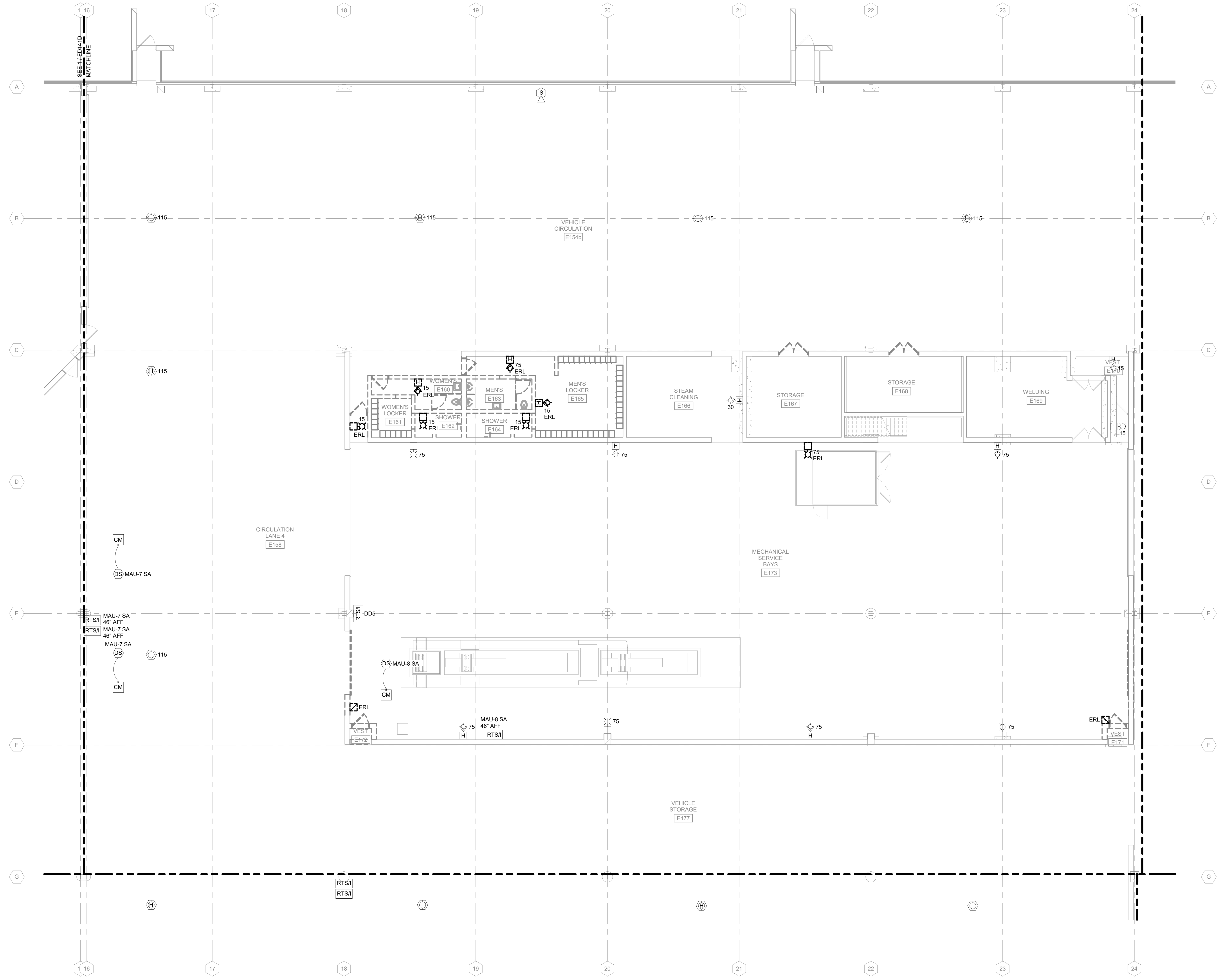
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DRAWN BY: KAS  
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SHEET CONTENTS  
FIRST FLOOR FIRE ALARM DEMOLITION PLAN - AREA F

SHEET NO.:

**ED141F**



**1** FIRST FLOOR FIRE ALARM DEMOLITION PLAN - AREA F  
1/8" = 1'-0"

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**FIRE ALARM DEMOLITION GENERAL NOTES:**

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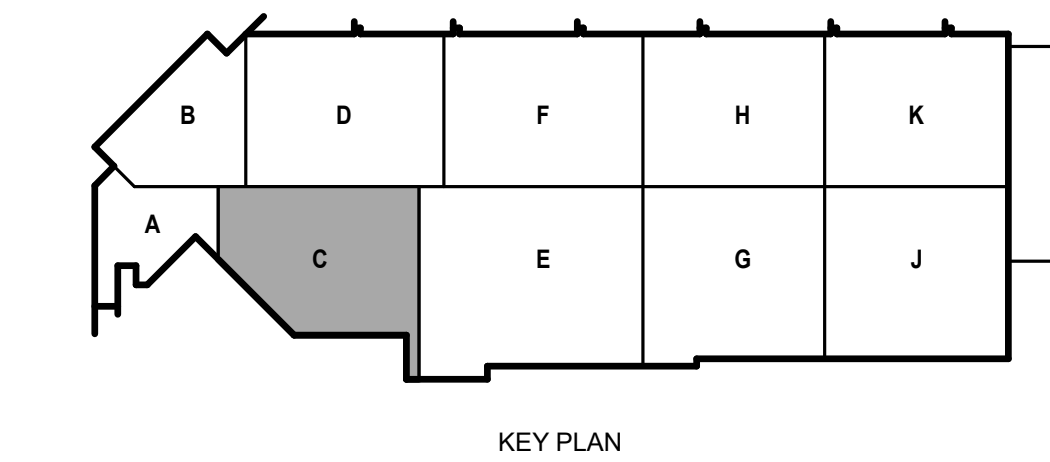
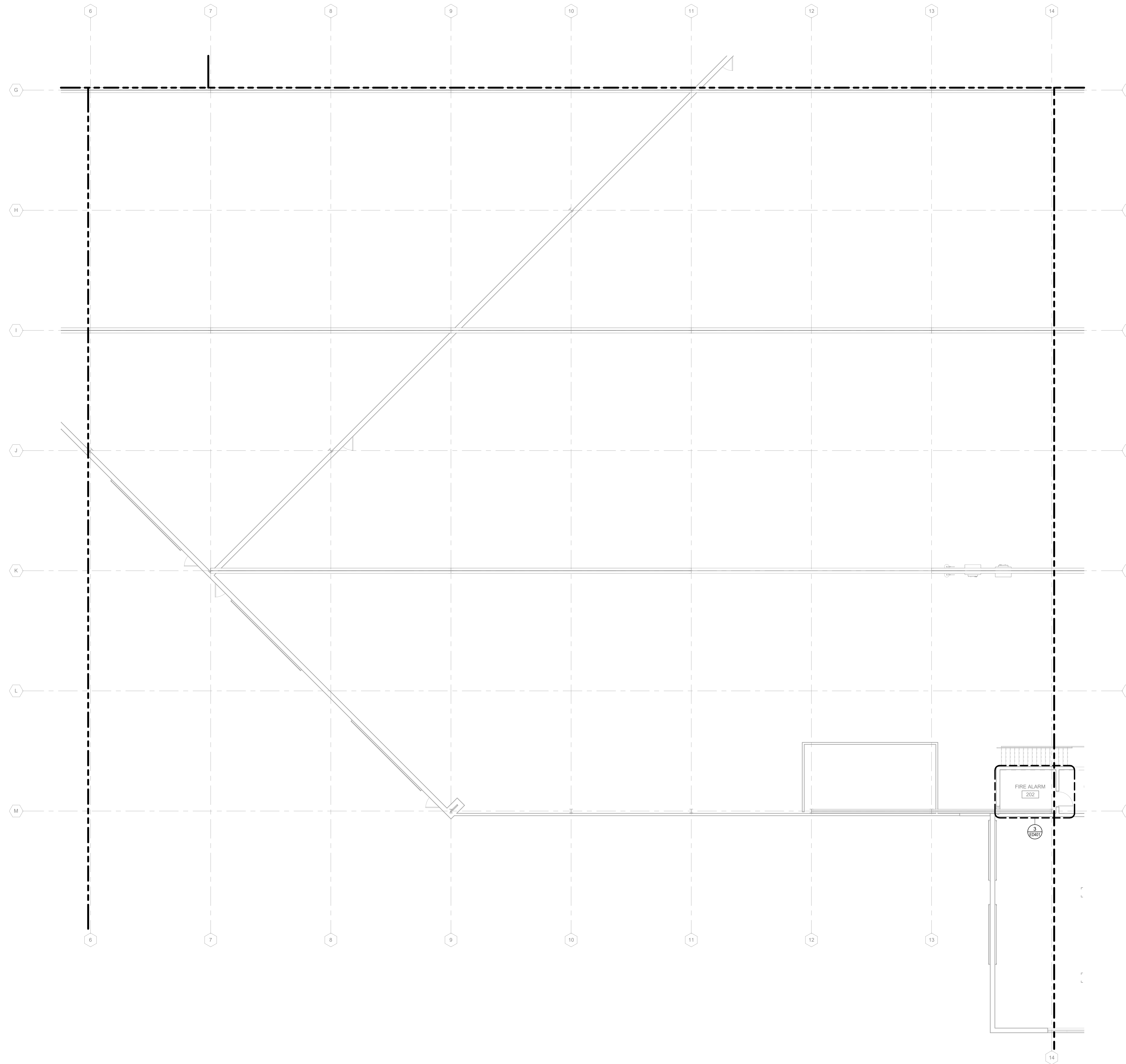
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SHEET CONTENTS  
SECOND FLOOR  
FIRE ALARM  
DEMOLITION PLAN -  
AREA C

SHEET NO.:

**ED142C**



**1 SECOND FLOOR FIRE ALARM DEMOLITION PLAN - AREA C**  
1/8" = 1'-0"

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**FIRE ALARM DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
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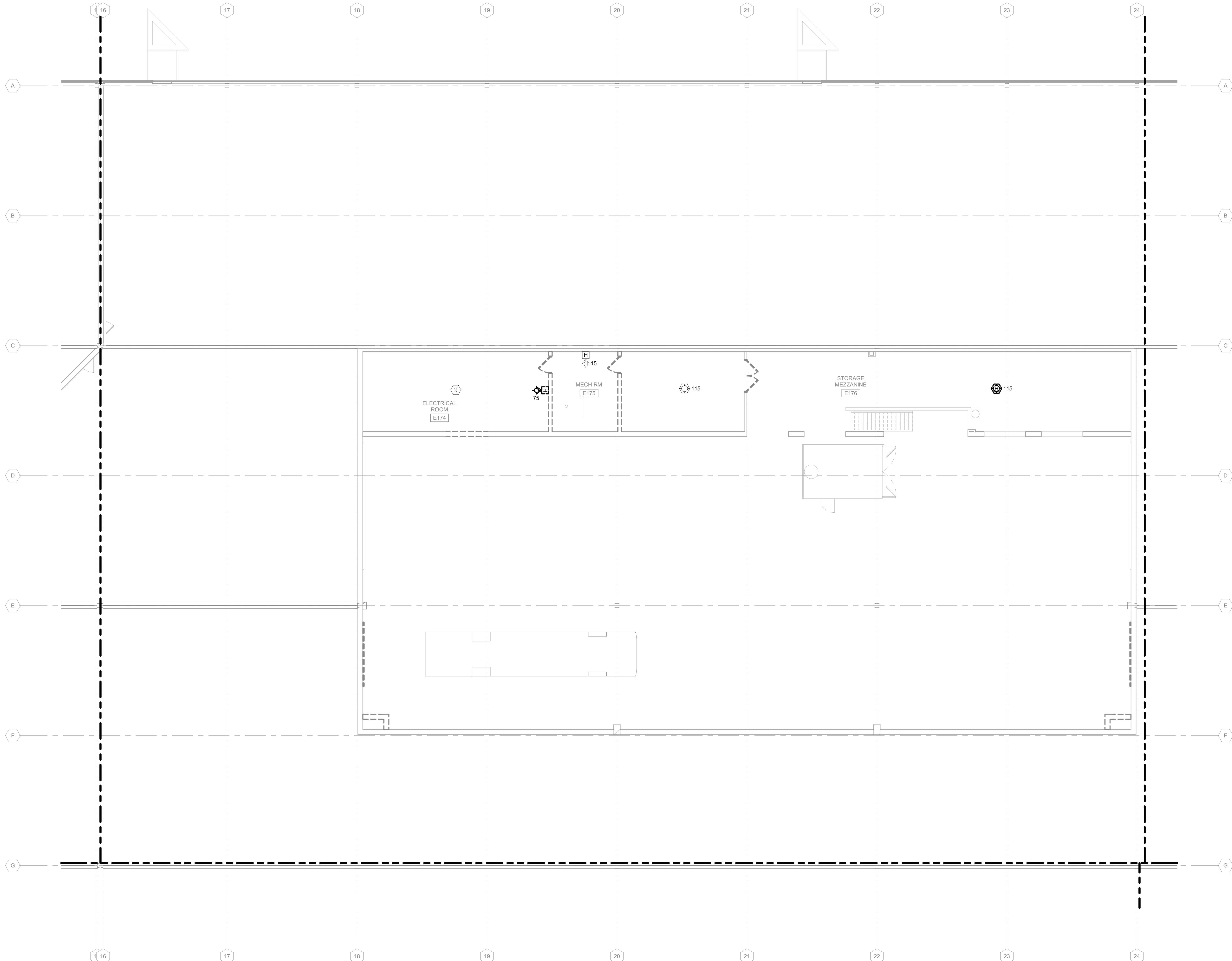
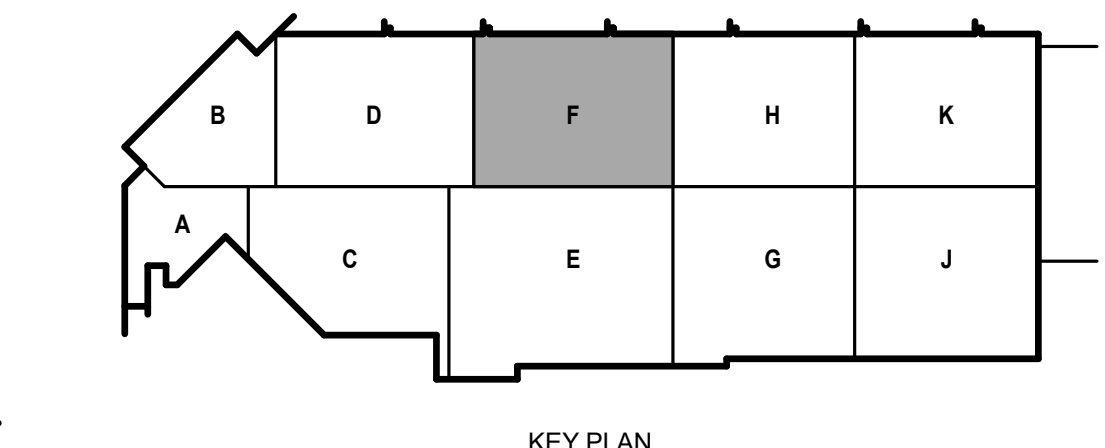
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DRAWN BY: KAS  
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SHEET CONTENTS  
SECOND FLOOR  
FIRE ALARM  
DEMOLITION PLAN - AREA F

SHEET NO.:

**ED142F**



**1 SECOND FLOOR FIRE ALARM DEMOLITION PLAN - AREA F**  
1/8" = 1'-0"

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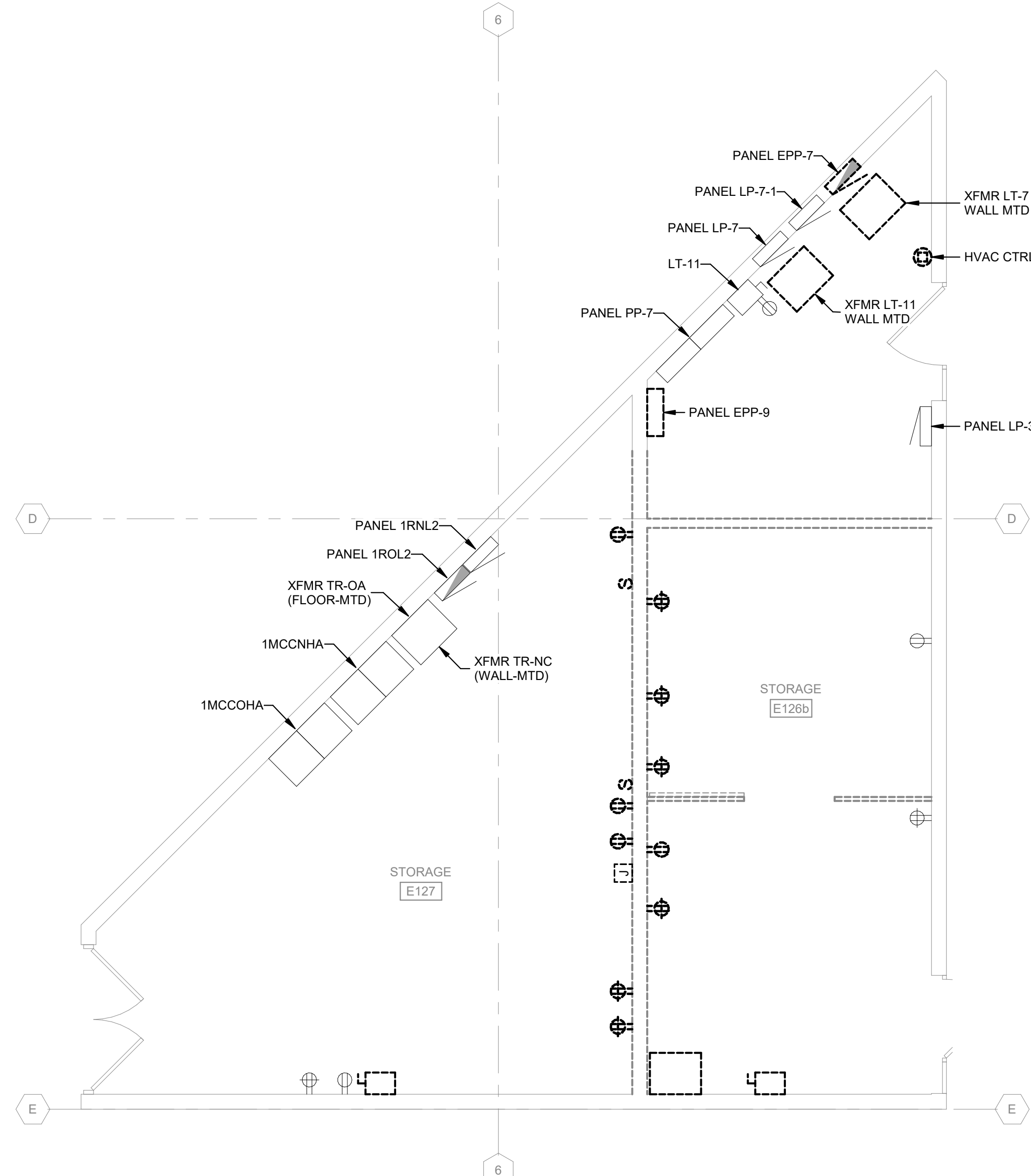


**POWER DEMOLITION GENERAL NOTES:**

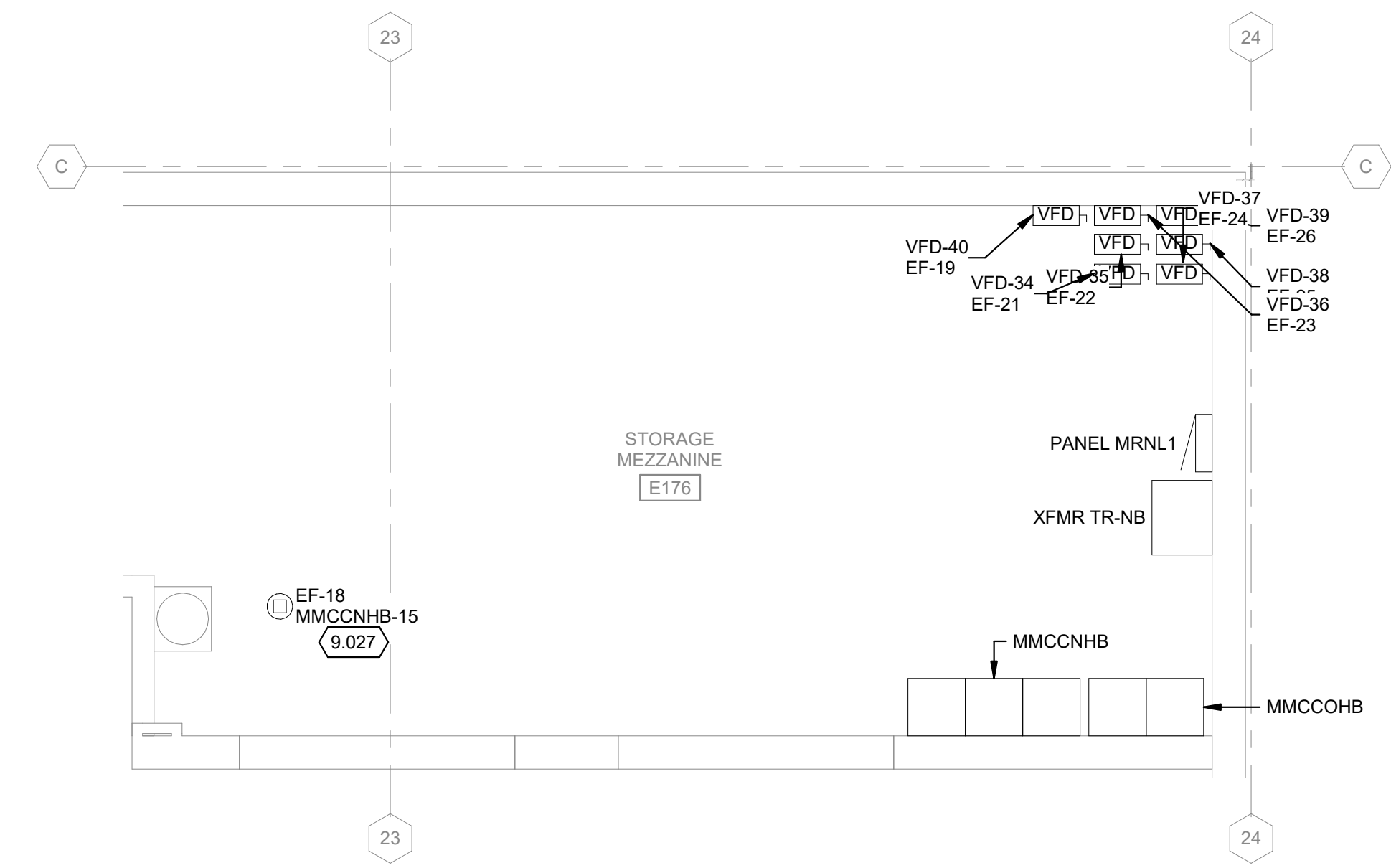
1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.

**KEYED NOTES**

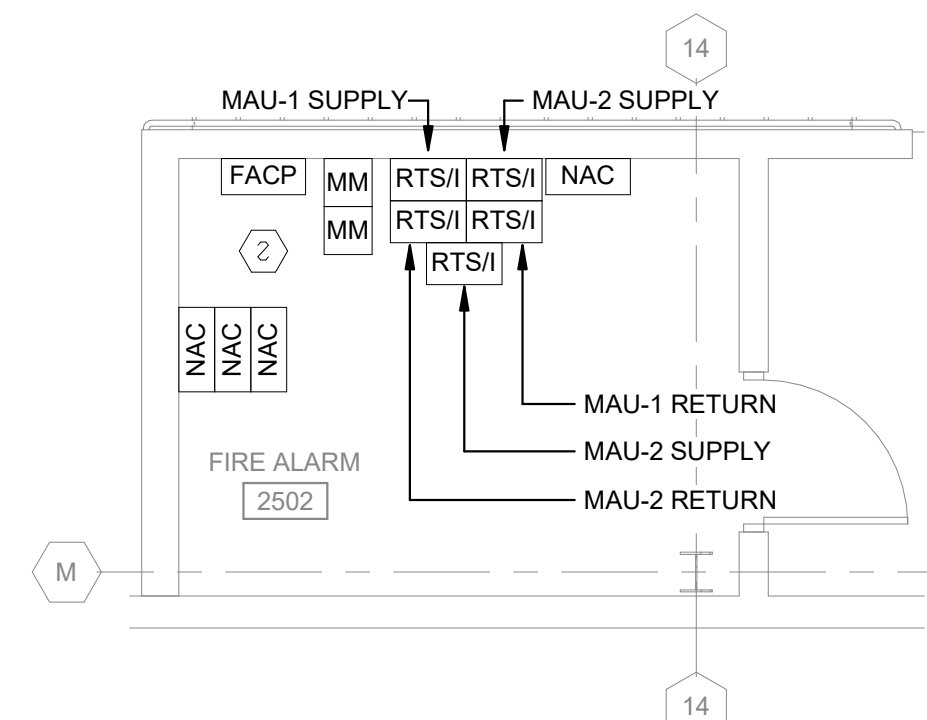
- 9.027 DISCONNECT AND REMOVE MOTOR BRANCH CIRCUIT BACK TO SOURCE (MMCCNHB). SEE ONE-LINE DIAGRAM 1/ED704. MOTOR TO REMAIN IN PLACE FOR CONNECTION TO NEW VFD AS SHOWN ON 2/E-401.



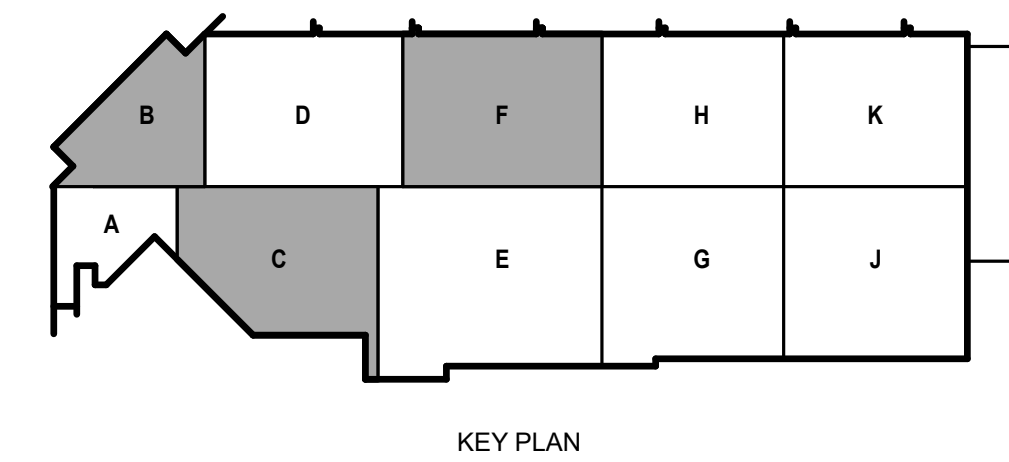
**1 ENLARGED EXISTING FIRST FLOOR ELECTRICAL ROOMS**  
1/4" = 1'-0"



**2 ENLARGED EXISTING MEZZANINE ELECTRICAL ROOM**  
1/4" = 1'-0"



**3 ENLARGED EXISTING FIRE ALARM ROOM**  
1/4" = 1'-0"



KEY PLAN







POWER DEMOLITION GENERAL NOTES:

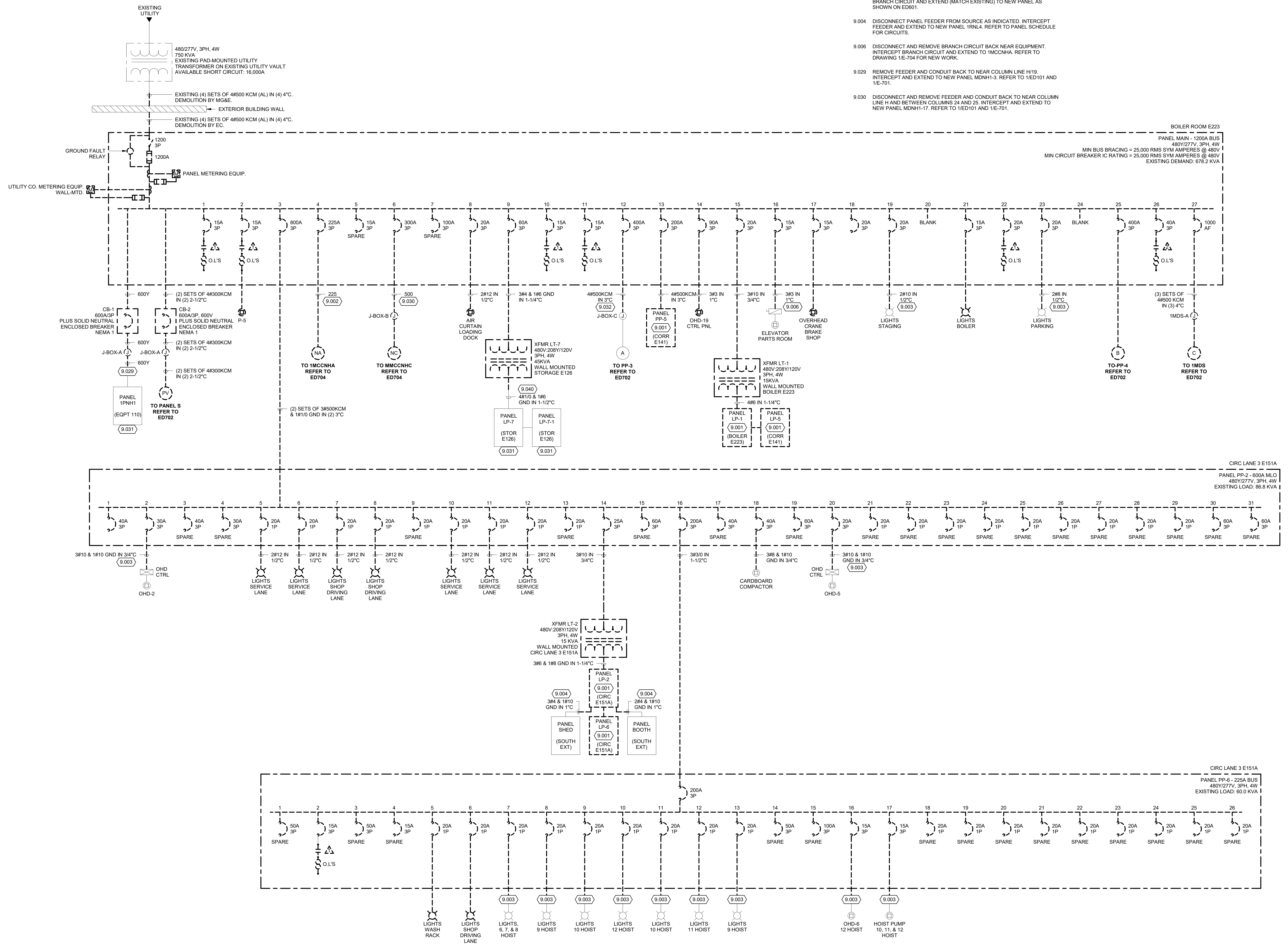
1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.
6. DURING CONSTRUCTION, THE EXISTING 350KW GENERATOR, EXISTING ATS, AND PANEL 1EPP-1 WILL NEED TO BE MAINTAINED OPERATIONAL UNTIL NEW DISTRIBUTION EQUIPMENT ASSOCIATED WITH RE-FEEDING EXISTING PANELS, MCC'S, ETC. THAT ARE CURRENTLY SERVED FROM 1EPP-1 ARE INSTALLED AND ENERGIZED. IN ADDITION TO WORK AS OUTLINED IN THE CONSTRUCTION OPERATION PLAN.

KEYED NOTES

- 9.001 DISCONNECT AND INTERCEPT EXISTING CIRCUITS NOT DEMOLISHED AS PART OF PHASE 3A. REFER TO DRAWING ED601 FOR EXISTING PANELBOARD CIRCUIT DIRECTORY FOR CIRCUITS TO BE MAINTAINED AND EXTENDED.
- 9.002 DISCONNECT AND REMOVE FEEDER AND CONDUIT TO J-BOX-D. INTERCEPT FEEDER AT J-BOX-C AND EXTEND NEW FEEDER AND CONDUIT TO NEW PANEL AS SHOWN ON 1/E-701.
- 9.003 DISCONNECT AND REMOVE BRANCH CIRCUIT FROM PANEL. INTERCEPT BRANCH CIRCUIT AND EXTEND (MATCH EXISTING) TO NEW PANEL AS SHOWN ON ED601.
- 9.004 DISCONNECT PANEL FEEDER FROM SOURCE AS INDICATED. INTERCEPT FEEDER AND EXTEND TO NEW PANEL. 1RN14. REFER TO PANEL SCHEDULE FOR CIRCUITS.
- 9.006 DISCONNECT AND REMOVE BRANCH CIRCUIT NEAR EQUIPMENT. INTERCEPT BRANCH CIRCUIT AND EXTEND TO 1MCCNHA. REFER TO DRAWING 1/E-704 FOR NEW WORK.
- 9.029 REMOVE FEEDER AND CONDUIT BACK TO NEAR COLUMN LINE H19. INTERCEPT AND EXTEND TO NEW PANEL MDN1-3. REFER TO 1/ED101 AND 1/E-701.
- 9.030 DISCONNECT AND REMOVE FEEDER AND CONDUIT BACK TO NEAR COLUMN LINE H AND BETWEEN COLUMNS 24 AND 25. INTERCEPT AND EXTEND TO NEW PANEL MDN1-17. REFER TO 1/ED101 AND 1/E-701.

KEYED NOTES

- 9.031 PANEL AND/OR MCC NEEDS TO REMAIN OPERATIONAL UNTIL NEW SOURCE PANEL IS INSTALLED.
- 9.032 DISCONNECT AND REMOVE FEEDER AND CONDUIT TO J-BOX-C. INTERCEPT FEEDER AT J-BOX-C AND EXTEND NEW FEEDER AND CONDUIT TO MSBNH1 AS SHOWN ON 1/E-701.
- 9.040 INTERCEPT EXISTING FEEDER AND CONDUIT WITHIN LOCATION OF TRANSFORMER REMOVAL AND EXTEND TO PANEL 1DNL1. SEE DRAWING 1/E-701.



1 ONE-LINE POWER DIAGRAM - DEMOLITION NO SCALE

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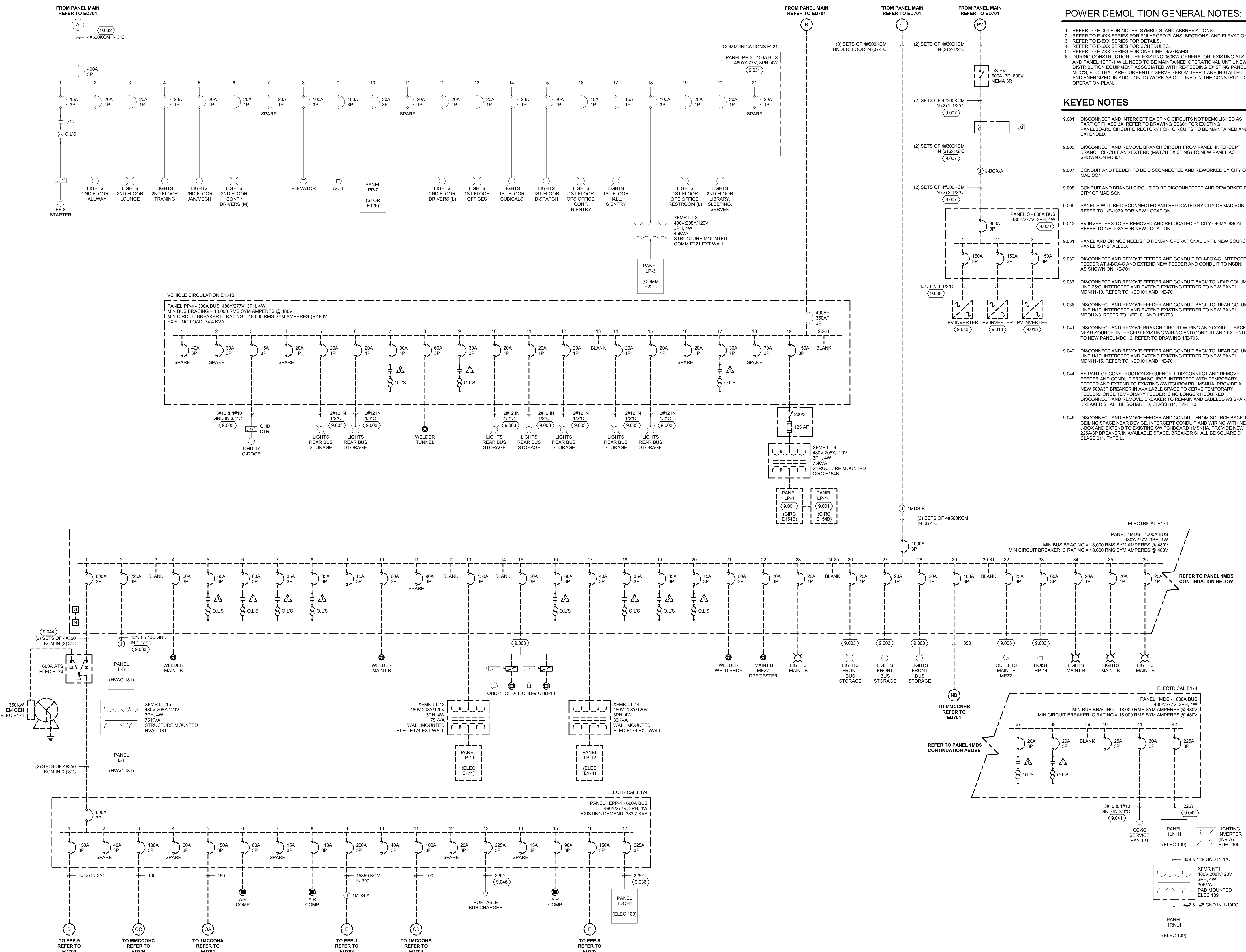


**POWER DEMOLITION GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.
6. DURING CONSTRUCTION, THE EXISTING 350KW GENERATOR, EXISTING ATS, AND PANEL 1EPP-1 WILL NEED TO BE MAINTAINED OPERATIONAL UNTIL NEW DISTRIBUTION EQUIPMENT ASSOCIATED WITH RE-FEEDING EXISTING PANELS, MCCS, ETC. THAT ARE CURRENTLY SERVED FROM 1EPP-1 ARE INSTALLED AND ENERGIZED. IN ADDITION TO WORK AS OUTLINED IN THE CONSTRUCTION OPERATION PLAN.

**KEYED NOTES**

- 9.001 DISCONNECT AND INTERCEPT EXISTING CIRCUITS NOT DEMOLISHED AS PART OF PHASE 3A. REFER TO DRAWING ED601 FOR EXISTING PANELBOARD CIRCUIT DIRECTORY FOR CIRCUITS TO BE MAINTAINED AND EXTENDED.
- 9.003 DISCONNECT AND REMOVE BRANCH CIRCUIT FROM PANEL. INTERCEPT BRANCH CIRCUIT AND EXTEND (MATCH EXISTING) TO NEW PANEL AS SHOWN ON ED601.
- 9.007 CONDUIT AND FEEDER TO BE DISCONNECTED AND REWORKED BY CITY OF MADISON.
- 9.008 CONDUIT AND BRANCH CIRCUIT TO BE DISCONNECTED AND REWORKED BY CITY OF MADISON.
- 9.009 PANEL S WILL BE DISCONNECTED AND RELOCATED BY CITY OF MADISON. REFER TO 1E-102A FOR NEW LOCATION.
- 9.013 PV INVERTERS TO BE REMOVED AND RELOCATED BY CITY OF MADISON. REFER TO 1E-102A FOR NEW LOCATION.
- 9.031 PANEL AND OR MCC NEEDS TO REMAIN OPERATIONAL UNTIL NEW SOURCE PANEL IS INSTALLED.
- 9.032 DISCONNECT AND REMOVE FEEDER AND CONDUIT TO J-BOX-C. INTERCEPT FEEDER AT J-BOX-C AND EXTEND NEW FEEDER AND CONDUIT TO MSBNH1 AS SHOWN ON 1E-701.
- 9.033 DISCONNECT AND REMOVE FEEDER AND CONDUIT BACK TO NEAR COLUMN LINE 25'C. INTERCEPT AND EXTEND EXISTING FEEDER TO NEW PANEL MDNH1-10. REFER TO 1EED101 AND 1E-701.
- 9.036 DISCONNECT AND REMOVE FEEDER AND CONDUIT BACK TO NEAR COLUMN LINE H19. INTERCEPT AND EXTEND EXISTING FEEDER TO NEW PANEL MD0H-3. REFER TO 1EED101 AND 1E-703.
- 9.041 DISCONNECT AND REMOVE BRANCH CIRCUIT WIRING AND CONDUIT BACK NEAR SOURCE. INTERCEPT EXISTING WIRING AND CONDUIT AND EXTEND TO NEW PANEL MD0H-2. REFER TO DRAWING 1E-703.
- 9.042 DISCONNECT AND REMOVE FEEDER AND CONDUIT BACK TO NEAR COLUMN LINE H19. INTERCEPT AND EXTEND EXISTING FEEDER TO NEW PANEL MDNH1-15. REFER TO 1EED101 AND 1E-701.
- 9.044 AS PART OF CONSTRUCTION SEQUENCE 1, DISCONNECT AND REMOVE FEEDER AND CONDUIT FROM SOURCE. INTERCEPT WITH TEMPORARY FEEDER AND EXTEND TO EXISTING SWITCHBOARD 1MSNHA. PROVIDE A NEW 600A 3P BREAKER IN AVAILABLE SPACE TO SERVE TEMPORARY FEEDER. ONCE TEMPORARY FEEDER IS NO LONGER REQUIRED, DISCONNECT AND REMOVE. BREAKER TO REMAIN AND LABELED AS SPARE. BREAKER SHALL BE SQUARE D, CLASS 611, TYPE LJ.
- 9.046 DISCONNECT AND REMOVE FEEDER AND CONDUIT FROM SOURCE BACK TO CEILING SPACE NEAR DEVICE. INTERCEPT CONDUIT AND WIRING WITH NEW J-BOX AND EXTEND TO EXISTING SWITCHBOARD 1MSNHA. PROVIDE NEW 225A 3P BREAKER IN AVAILABLE SPACE. BREAKER SHALL BE SQUARE D, CLASS 611, TYPE LJ.



**1 ONE-LINE POWER DIAGRAM - DEMOLITION**  
NO SCALE

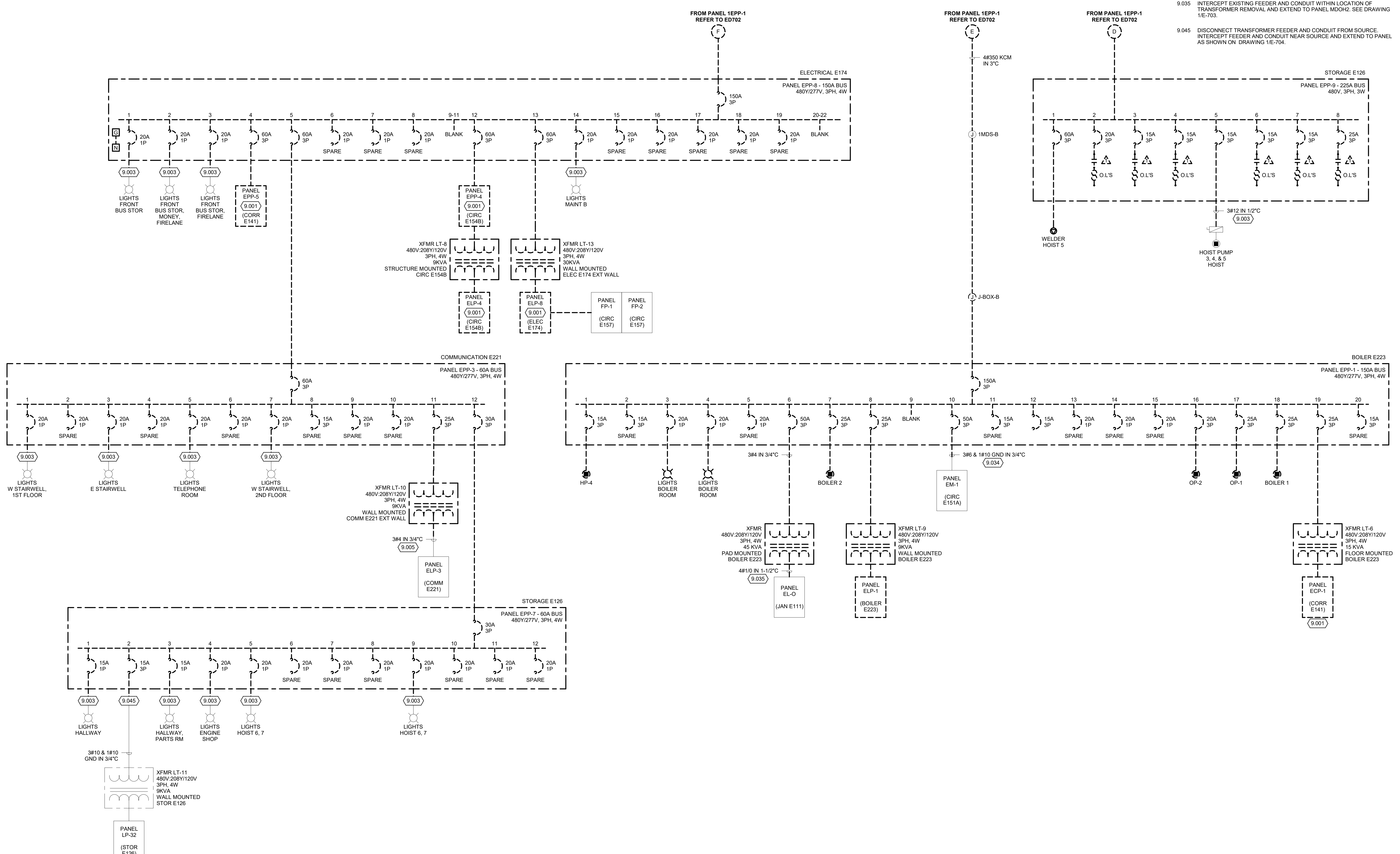
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3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.
6. DURING CONSTRUCTION, THE EXISTING 350KW GENERATOR, EXISTING ATS, AND PANEL 1EPP-1 WILL NEED TO BE MAINTAINED OPERATIONAL UNTIL NEW DISTRIBUTION EQUIPMENT ASSOCIATED WITH RE-FEEDING EXISTING PANELS, MCC'S, ETC. THAT ARE CURRENTLY SERVED FROM 1EPP-1 ARE INSTALLED AND ENERGIZED. IN ADDITION TO WORK AS OUTLINED IN THE CONSTRUCTION OPERATION PLAN.

**KEYED NOTES**

- 9.001 DISCONNECT AND INTERCEPT EXISTING CIRCUITS NOT DEMOLISHED AS PART OF PHASE 3A. REFER TO DRAWING ED01 FOR EXISTING PANELBOARD CIRCUIT DIRECTORY FOR CIRCUITS TO BE MAINTAINED AND EXTENDED.
- 9.003 DISCONNECT AND REMOVE BRANCH CIRCUIT FROM PANEL. INTERCEPT BRANCH CIRCUIT AND EXTEND (MATCH EXISTING) TO NEW PANEL AS SHOWN ON ED01.
- 9.005 DISCONNECT TRANSFORMER FEEDER AND CONDUIT FROM SOURCE. INTERCEPT FEEDER AND CONDUIT NEAR SOURCE AND EXTEND TO PANEL AS SHOWN ON DRAWING 1E-703.
- 9.034 DISCONNECT AND REMOVE FEEDER AND CONDUIT FROM SOURCE. INTERCEPT NEAR PANEL AND EXTEND EXISTING FEEDER TO EXISTING PANEL 1D0H. SEE PANEL SCHEDULE FOR CIRCUIT AND BREAKER INFORMATION.
- 9.035 INTERCEPT EXISTING FEEDER AND CONDUIT WITHIN LOCATION OF TRANSFORMER REMOVAL AND EXTEND TO PANEL MD0Z. SEE DRAWING 1E-703.
- 9.045 DISCONNECT TRANSFORMER FEEDER AND CONDUIT FROM SOURCE. INTERCEPT FEEDER AND CONDUIT NEAR SOURCE AND EXTEND TO PANEL AS SHOWN ON DRAWING 1E-704.



**1 ONE-LINE POWER DIAGRAM - DEMOLITION**  
NO SCALE

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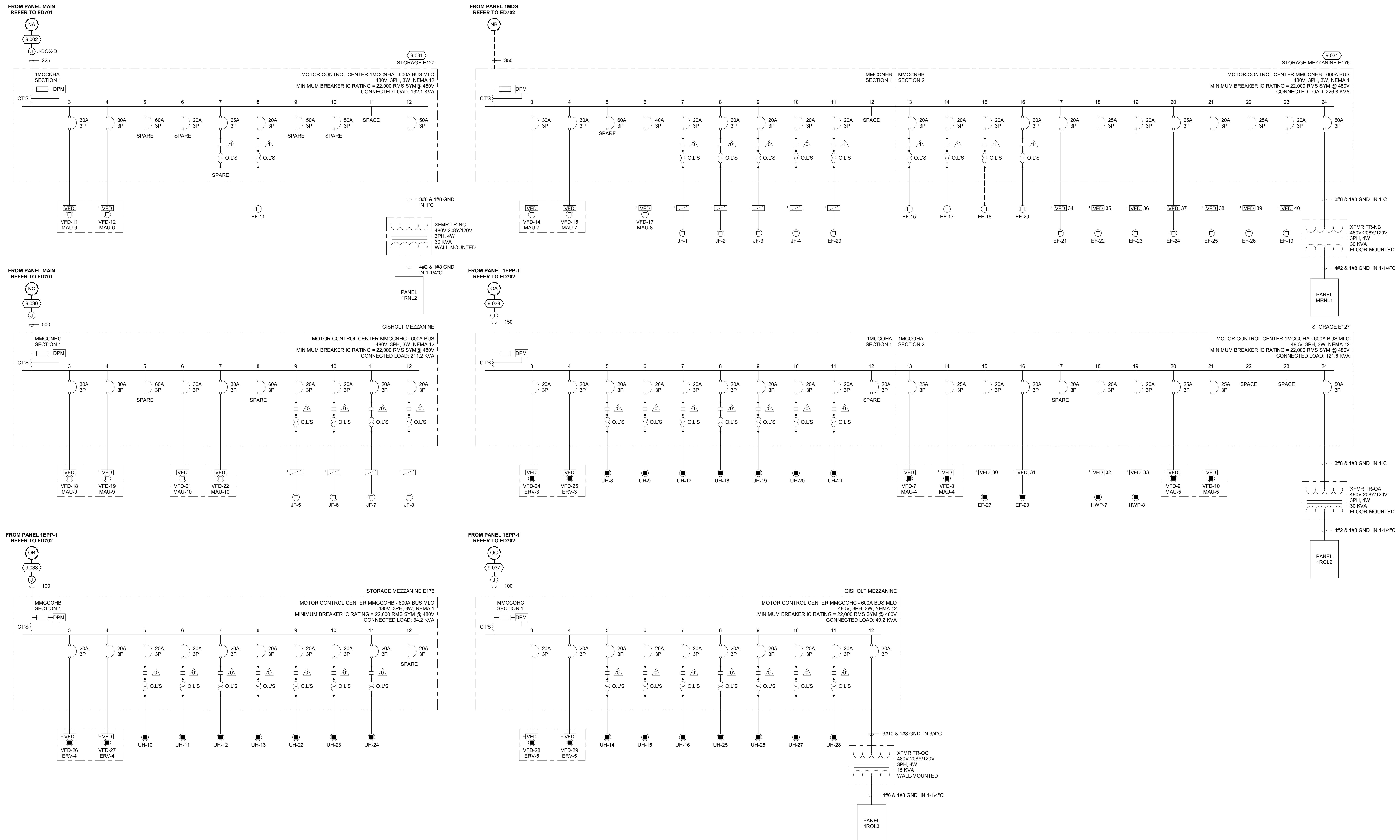


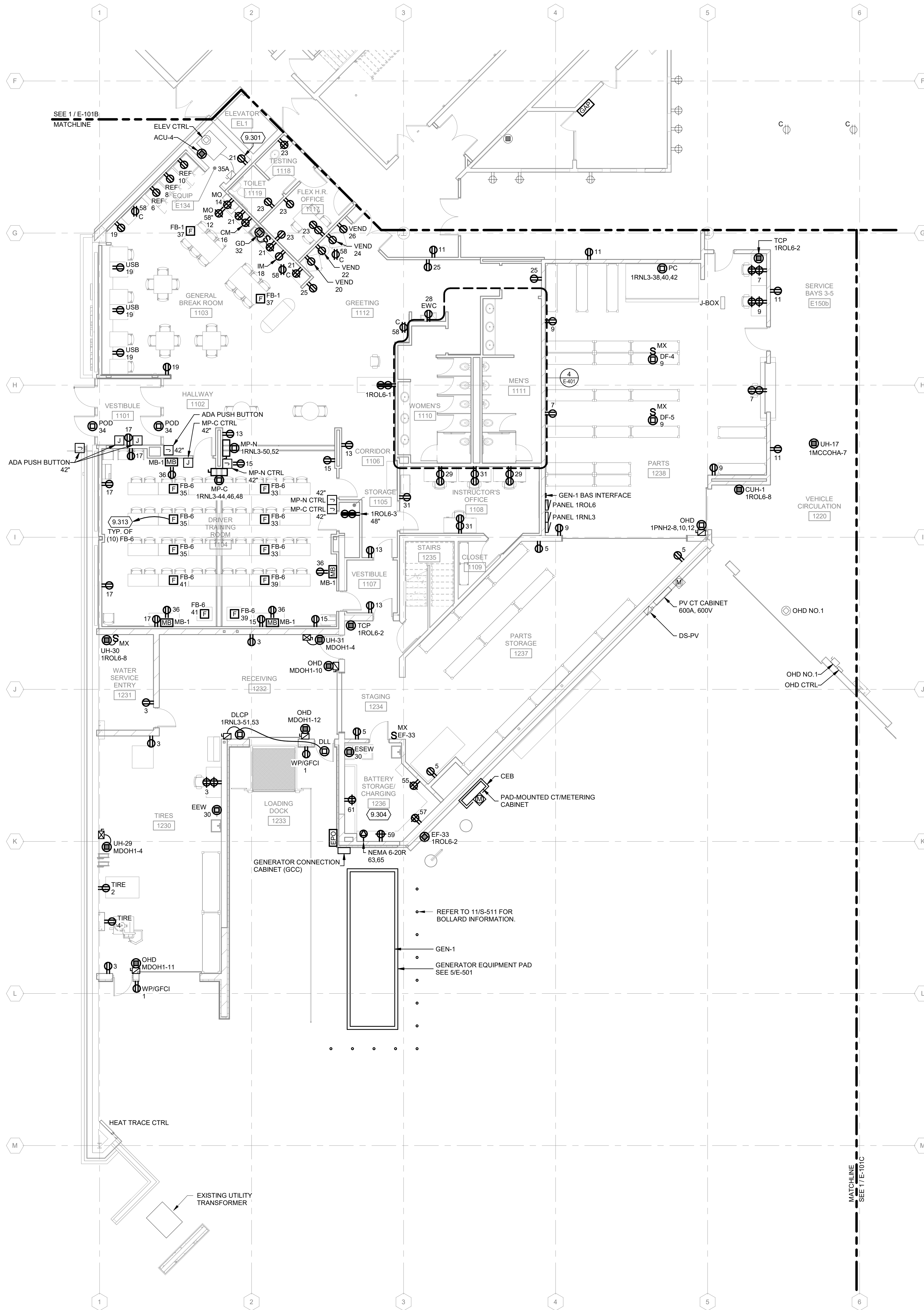
**KEYED NOTES**

- 9.002 DISCONNECT AND REMOVE FEEDER AND CONDUIT TO J-BOX-D. INTERCEPT FEEDER AT J-BOX-D AND EXTEND NEW FEEDER AND CONDUIT TO NEW PANEL AS SHOWN ON 1/E-701.
- 9.030 DISCONNECT AND REMOVE FEEDER AND CONDUIT BACK TO NEAR COLUMN LINE H AND BETWEEN COLUMNS 24 AND 25. INTERCEPT AND EXTEND TO NEW PANEL MDNH1-17. REFER TO 1/ED101 AND 1/E-701.
- 9.031 PANEL AND OR MCC NEEDS TO REMAIN OPERATIONAL UNTIL NEW SOURCE PANEL IS INSTALLED.
- 9.037 DISCONNECT AND REMOVE FEEDER AND CONDUIT BACK TO NEAR COLUMN LINE H AND BETWEEN COLUMNS 24 AND 25. INTERCEPT AND EXTEND TO NEW PANEL MDOH2-12. REFER TO 1/ED101 AND 1/E-703.
- 9.038 DISCONNECT AND REMOVE FEEDER AND CONDUIT BACK TO NEAR MCC. INTERCEPT AND EXTEND TO NEW PANEL MDOH2-10.
- 9.039 DISCONNECT AND REMOVE FEEDER AND CONDUIT BACK TO EXISTING CEILING MOUNTED J-BOX LOCATED NEAR COLUMN LINE H/5 AND G/5. INTERCEPT AND EXTEND TO NEW PANEL MDOH1-14. REFER TO 1/ED101 AND 1/E-703.

**POWER DEMOLITION GENERAL NOTES:**

- 1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
- 3. REFER TO E-5XX SERIES FOR DETAILS.
- 4. REFER TO E-6XX SERIES FOR SCHEDULES.
- 5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.
- 6. DURING CONSTRUCTION, THE EXISTING 350KW GENERATOR, EXISTING ATS, AND PANEL 1EPP-1 WILL NEED TO BE MAINTAINED OPERATIONAL UNTIL NEW DISTRIBUTION EQUIPMENT ASSOCIATED WITH RE-FEEDING EXISTING PANELS, MCC'S, ETC. THAT ARE CURRENTLY SERVED FROM 1EPP-1 ARE INSTALLED AND ENERGIZED. IN ADDITION TO WORK AS OUTLINED IN THE CONSTRUCTION OPERATION PLAN.





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

**POWER GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.
6. REFER TO G-### SHEET FOR AREAS DENOTED AS CLASS 1, DIVISION 2. ALL ELECTRICAL WIRING AND ALL UTILIZATION EQUIPMENT LOCATED WITHIN 18" AFF IN ALL DIRECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS FOR CLASS 1, DIVISION 2 AS OUTLINED IN NEG ARTICLE 501.
7. ALL NORMAL 120V DEVICES SHOWN ON THIS SHEET SHALL BE SERVED FROM PANEL 1RNL3, UNLESS NOTED OTHERWISE.

**KEYED NOTES**

- 9.301 PROVIDE NEW DEVICE IN EXISTING BACKBOX AND CIRCUIT AS INDICATED ON DRAWINGS. INTERCEPT EXISTING CONDUIT AND EXTEND TO NEW PANEL.
- 9.304 ALL CONDUIT AND BOXES IN BATTERY STORAGE/CHARGING 1236 SHALL BE LISTED FOR CORROSIVE LOCATIONS.
- 9.313 PROVIDE EMPTY 1-1/4" UG EMPTY CONDUIT FOR TECHNOLOGY SYSTEMS CABLES. EXTEND FROM FLOOR BOX TO NEAREST STUD SPACE AND RISE TO ABOVE ACCESSIBLE CEILING.

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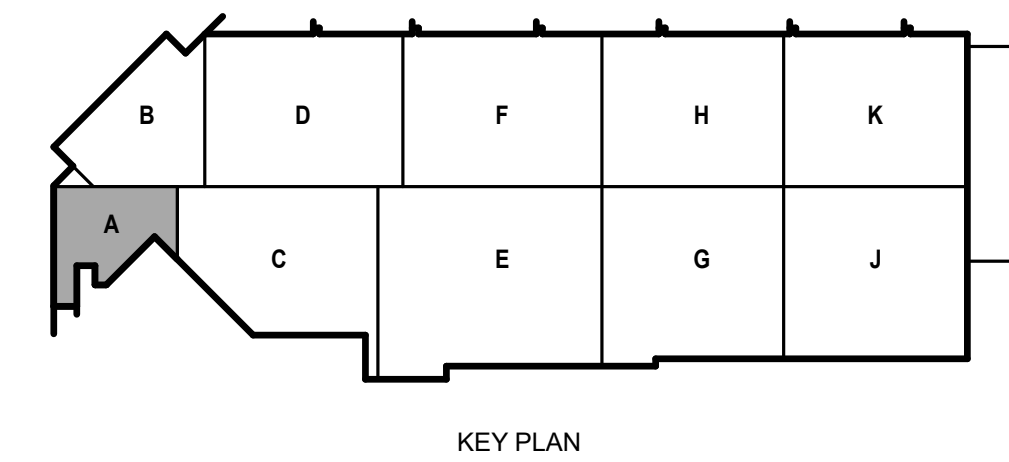
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DRAWN BY: KAS  
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SHEET CONTENTS  
FIRST FLOOR  
POWER PLAN - AREA A

SHEET NO.:

**E-101A**



KEY PLAN

**POWER GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.
6. REFER TO G-### SHEET FOR AREAS DENOTED AS CLASS 1, DIVISION 2. ALL ELECTRICAL WIRING AND ALL UTILIZATION EQUIPMENT LOCATED WITHIN 18" AFF IN ALL DIRECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS FOR CLASS 1, DIVISION 2 AS OUTLINED IN NEC ARTICLE 501.

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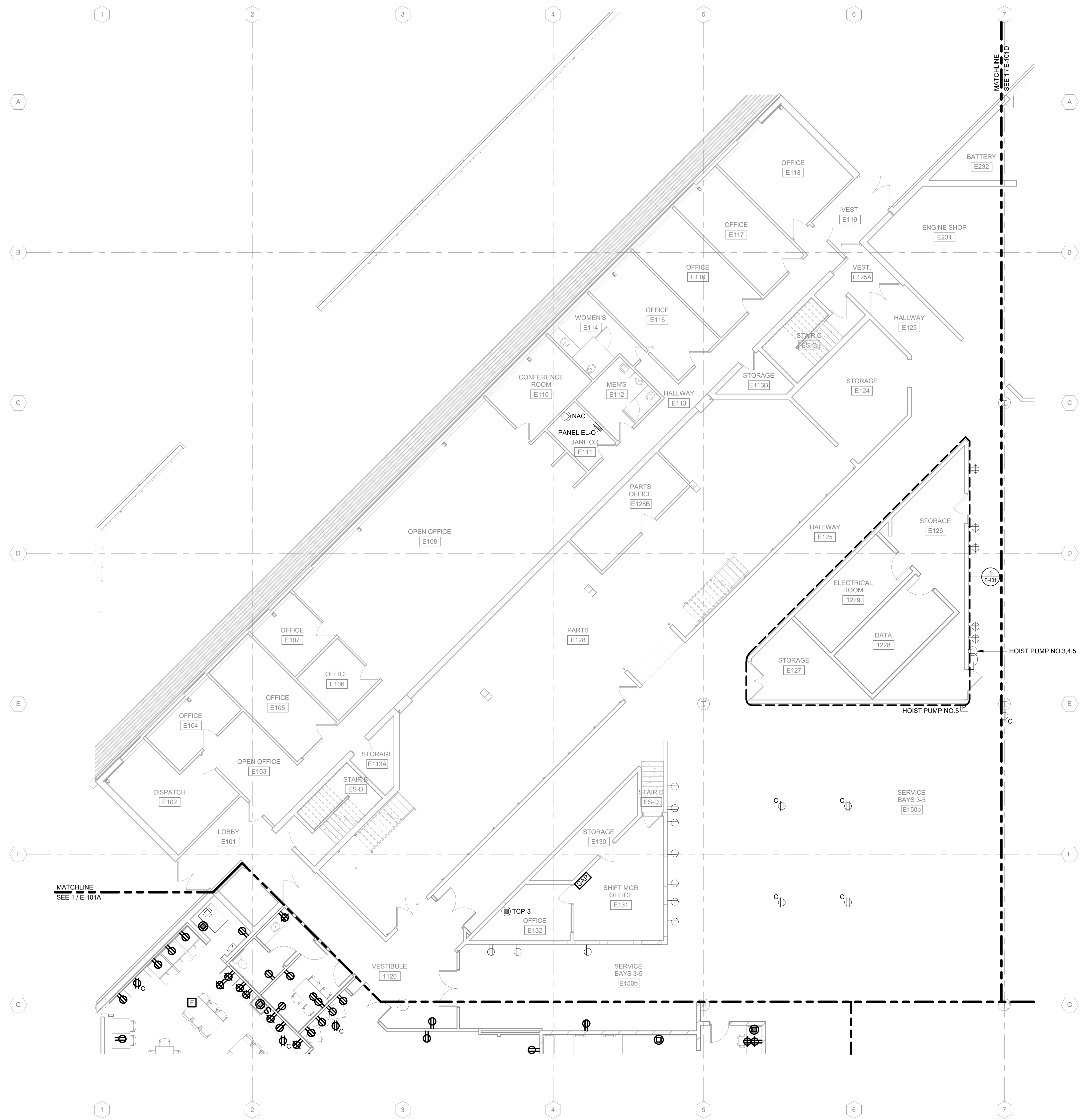
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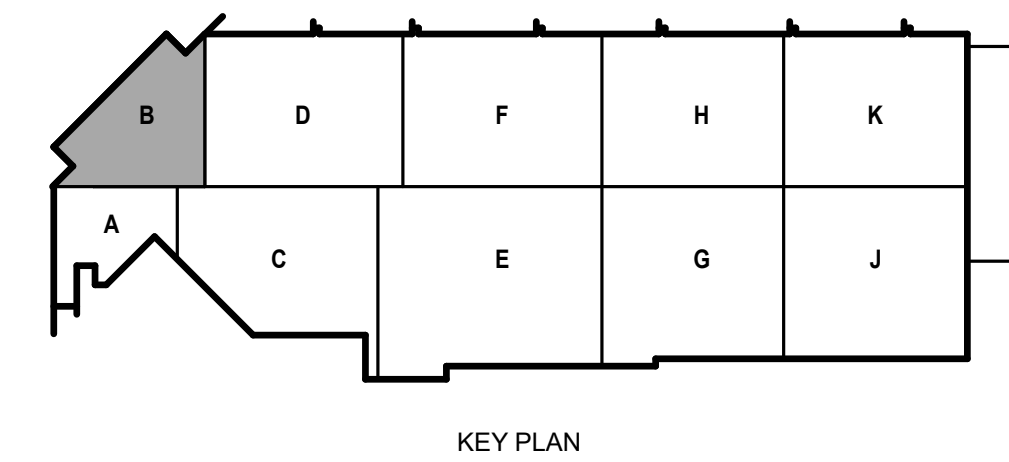
SHEET CONTENTS  
 FIRST FLOOR  
 POWER PLAN - AREA B

SHEET NO.:

**E-101B**



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



KEY PLAN



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SHEET CONTENTS  
FIRST FLOOR  
POWER PLAN - AREA  
C

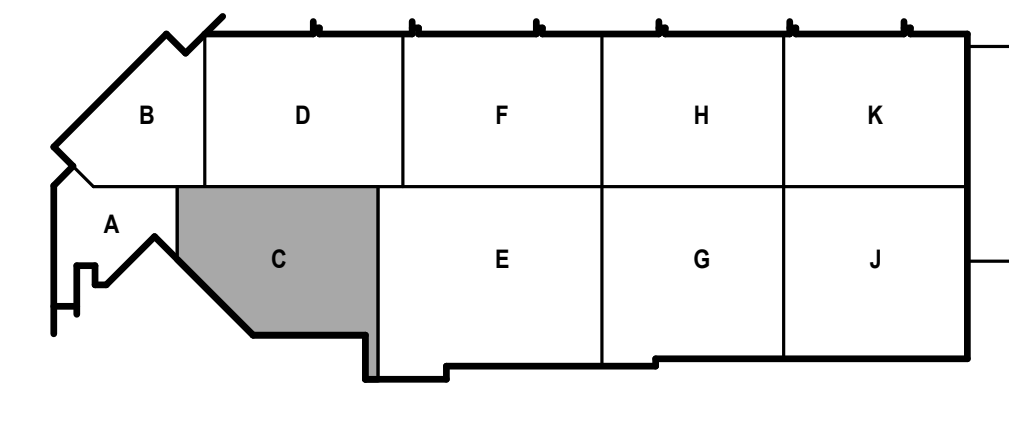
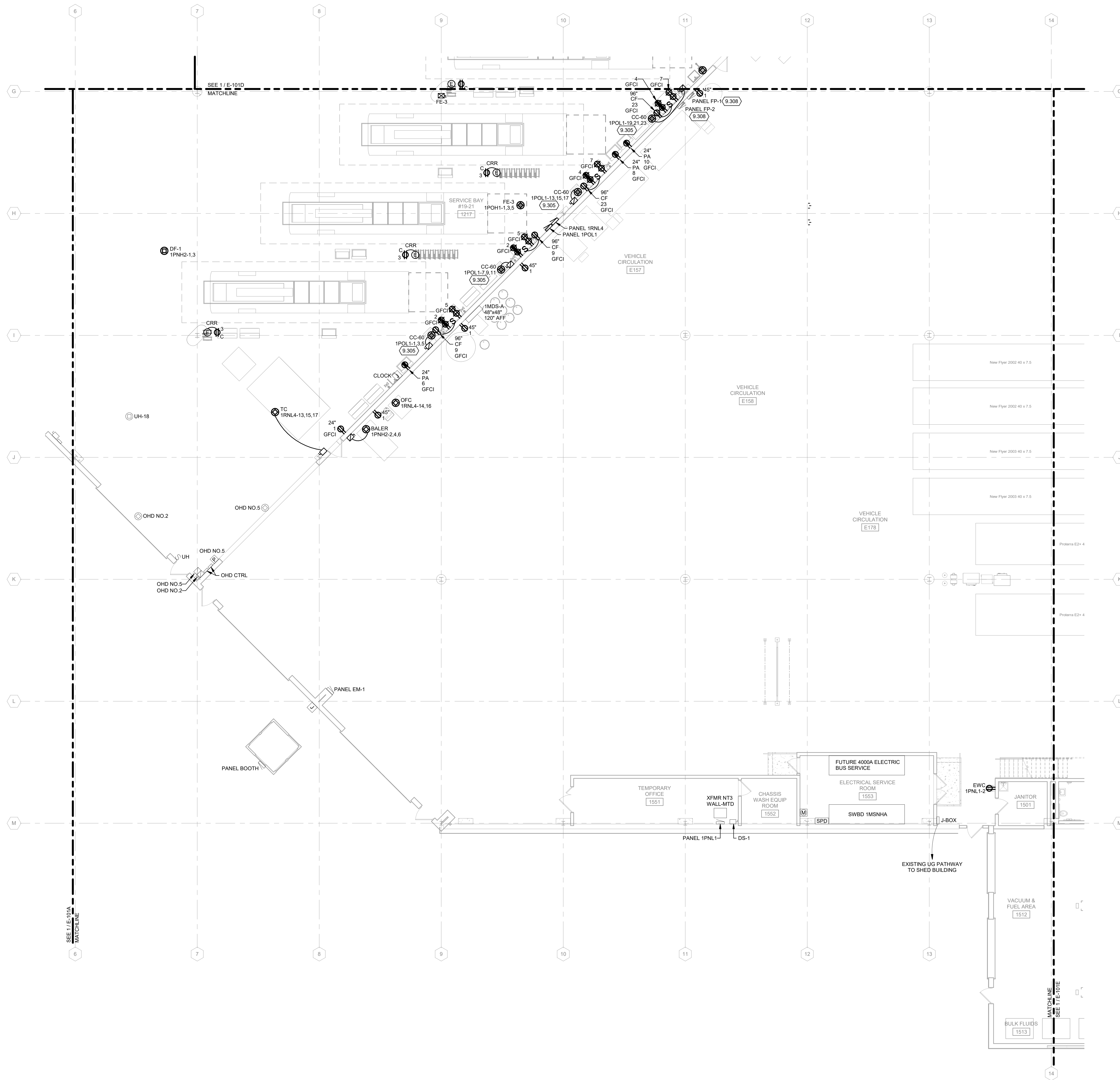
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**POWER GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.
6. REFER TO G-### SHEET FOR AREAS DENOTED AS CLASS 1, DIVISION 2. ALL ELECTRICAL WIRING AND ALL UTILIZATION EQUIPMENT LOCATED WITHIN 18" AFF IN ALL DIRECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS FOR CLASS 1, DIVISION 2 AS OUTLINED IN NEC ARTICLE 501.
7. ALL NORMAL 208/120V DEVICES SHOWN ON THIS SHEET SHALL BE SERVED FROM PANEL 1RNL4, UNLESS NOTED OTHERWISE.
8. ALL GENERATOR-SOURCED 208/120V DEVICES SHOWN ON THIS SHEET SHALL BE SERVED FROM PANEL 1POL1, UNLESS NOTED OTHERWISE.

**KEYED NOTES**

- 9.305 PROVIDE (1) 3/4" EMPTY CONDUIT FROM CONTROL CONSOLE TO EACH OF (2) PIT LOCATIONS FOR LIFT CONTROL CABLES. COORDINATE CONDUIT ROUTING AND CONTROL CONSOLE LOCATION WITH LIFT INSTALLER PRIOR TO INSTALLATION.
- 9.308 PROVIDE NEW FEEDER AS SHOWN ON E-702.







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SHEET CONTENTS  
FIRST FLOOR  
POWER PLAN - AREA  
D

SHEET NO.:

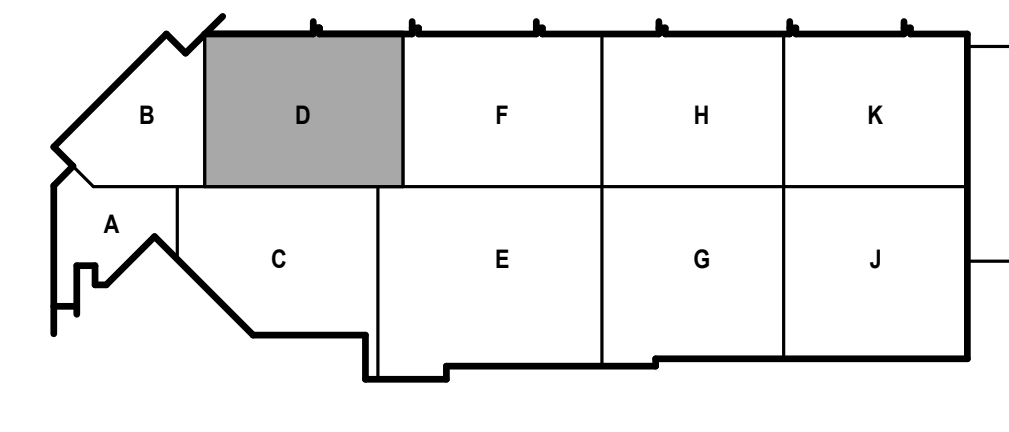
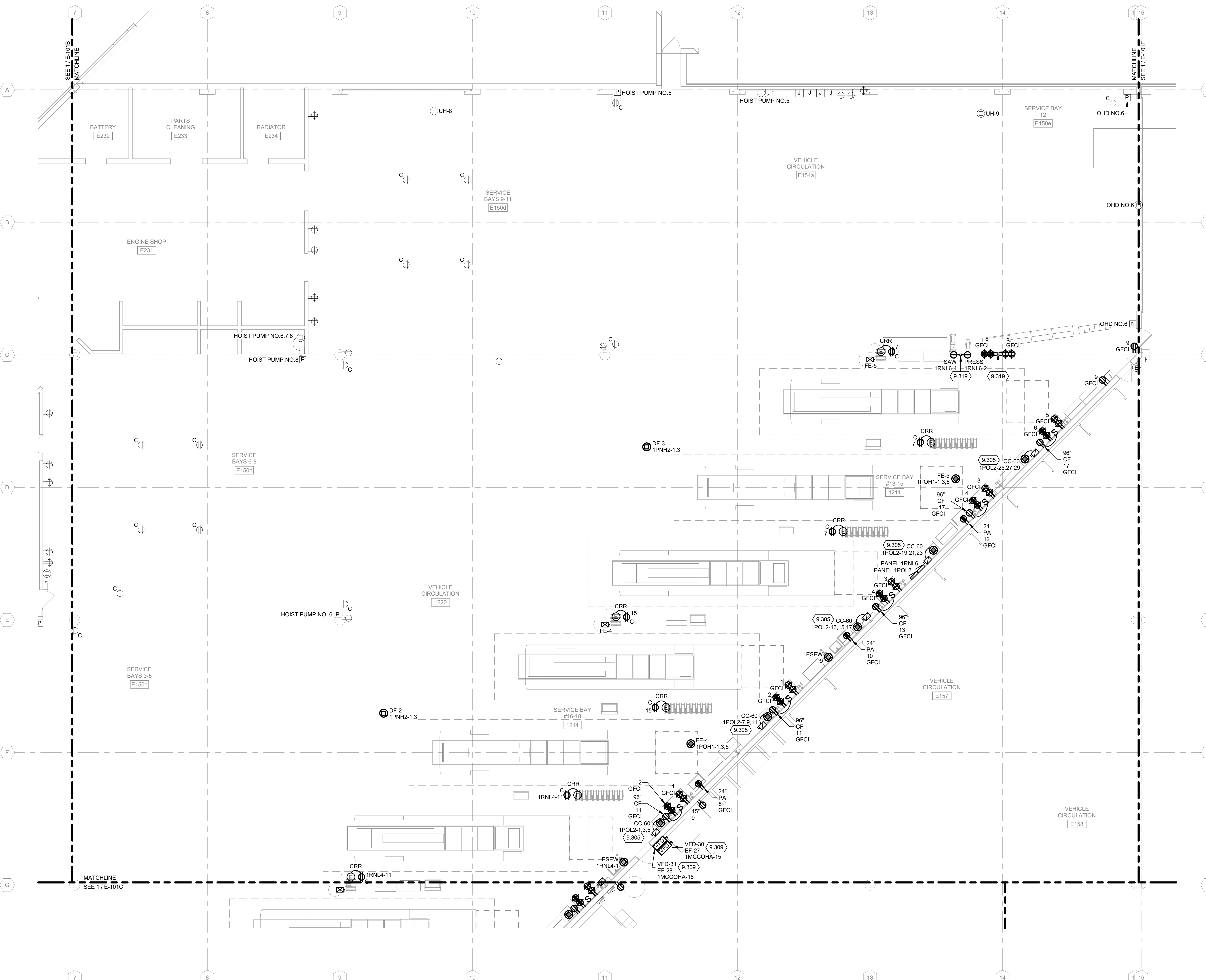
**E-101D**

**POWER GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.
6. REFER TO G-### SHEET FOR AREAS DENOTED AS CLASS 1, DIVISION 2. ALL ELECTRICAL WIRING AND ALL UTILIZATION EQUIPMENT LOCATED WITHIN 18" AFF IN ALL DIRECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS FOR CLASS 1, DIVISION 2 AS OUTLINED IN NEC ARTICLE 501.
7. ALL NORMAL 208/120V DEVICES SHOWN ON THIS SHEET SHALL BE SERVED FROM PANEL 1RN16, UNLESS NOTED OTHERWISE.
8. ALL GENERATOR-SOURCED 208/120V DEVICES SHOWN ON THIS SHEET SHALL BE SERVED FROM PANEL 1POL2, UNLESS NOTED OTHERWISE.

**KEYED NOTES**

- 9.305 PROVIDE (1) 3/4" EMPTY CONDUIT FROM CONTROL CONSOLE TO EACH OF (2) PIT LOCATIONS FOR LIFT CONTROL CABLES. COORDINATE CONDUIT ROUTING AND CONTROL CONSOLE LOCATION WITH LIFT INSTALLER PRIOR TO INSTALLATION.
- 9.309 RELOCATED AND RE-INSTALLED VFD'S.
- 9.319 MOUNT RECEPTACLES AT 46" AFF ON A FLOOR MOUNTED UNISTRUT CHANNEL SUPPORT.



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

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- POWER GENERAL NOTES:**
1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
  2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
  3. REFER TO E-5XX SERIES FOR DETAILS.
  4. REFER TO E-6XX SERIES FOR SCHEDULES.
  5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.
  6. REFER TO G-### SHEET FOR AREAS DENOTED AS CLASS 1, DIVISION 2. ALL ELECTRICAL WIRING AND ALL UTILIZATION EQUIPMENT LOCATED WITHIN 18" AFF IN ALL DIRECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS FOR CLASS 1, DIVISION 2 AS OUTLINED IN NEC ARTICLE 501.

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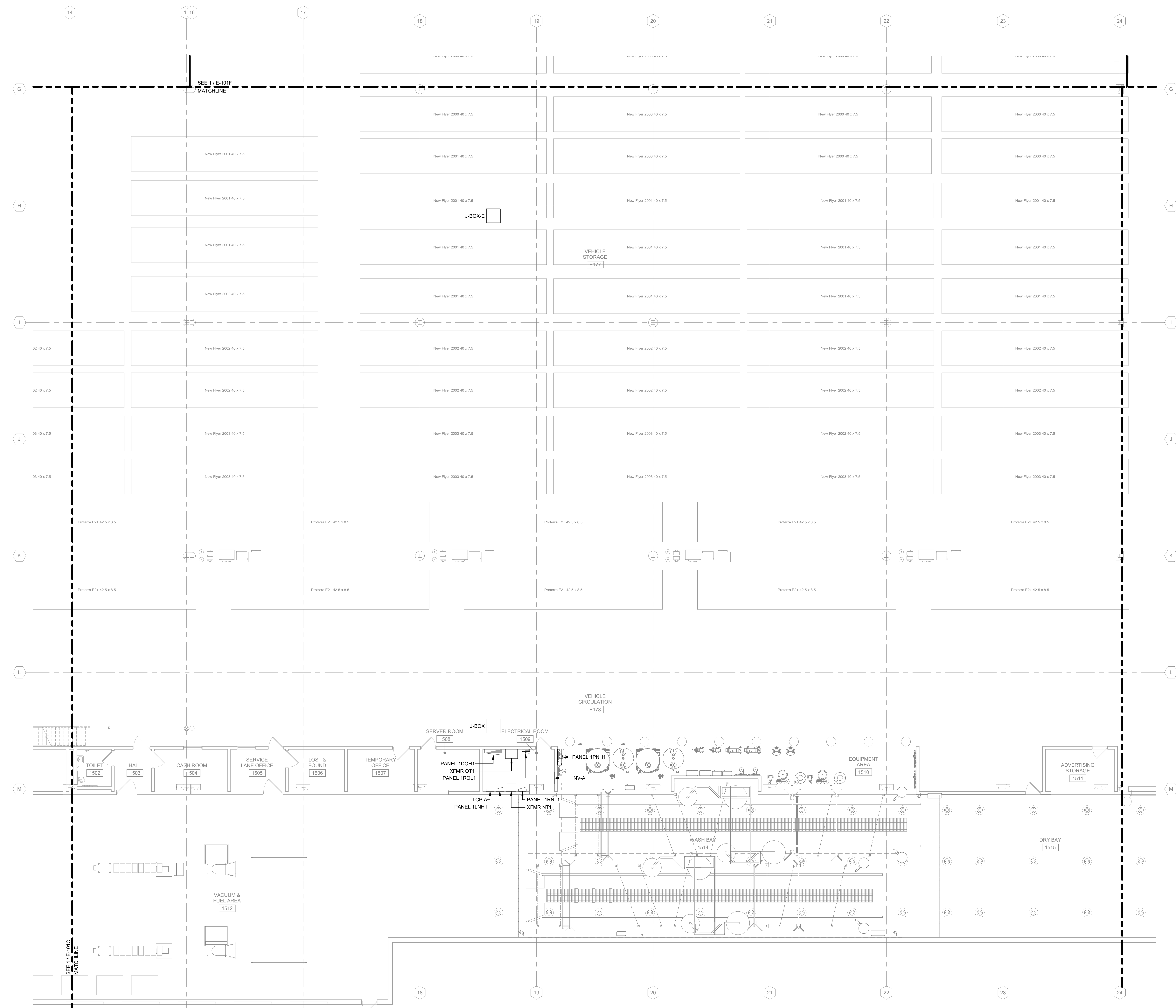
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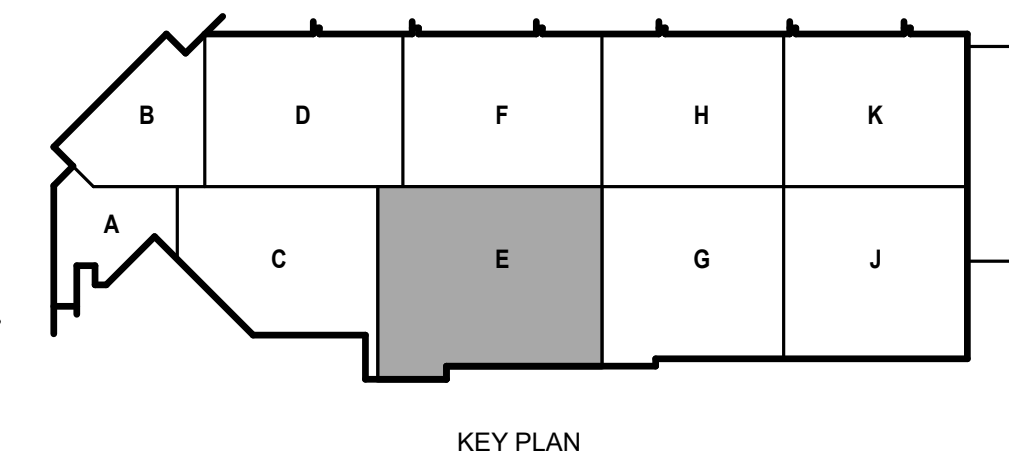
SHEET CONTENTS  
 FIRST FLOOR  
 POWER PLAN - AREA E

SHEET NO.:

**E-101E**



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



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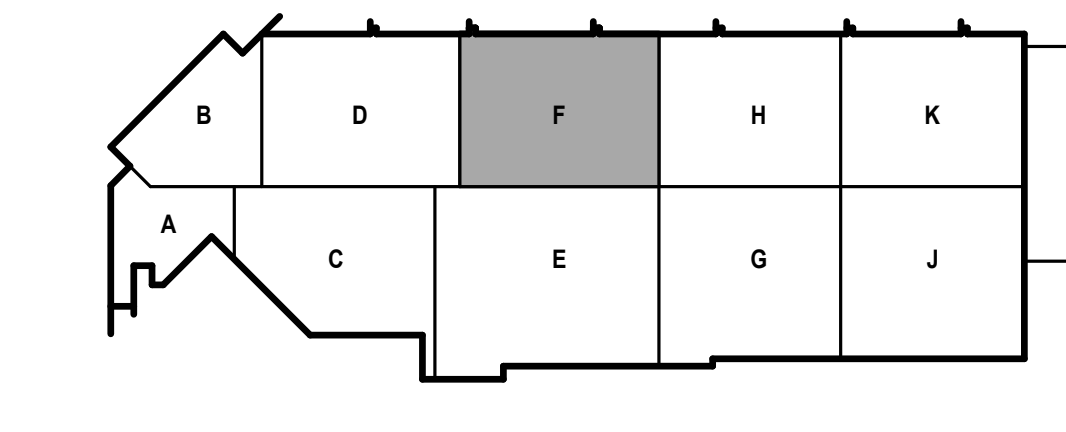
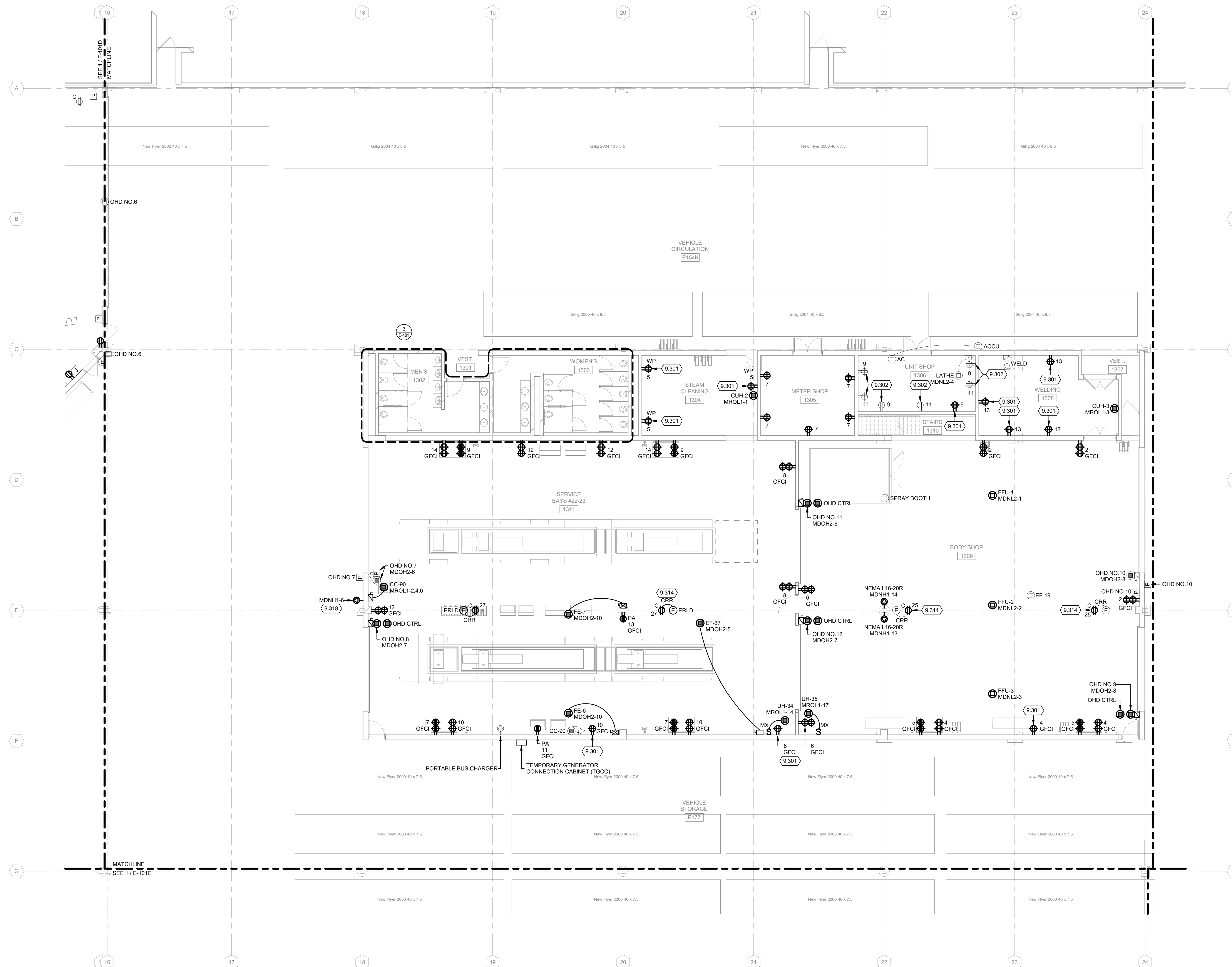


**POWER GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.
6. REFER TO G-### SHEET FOR AREAS DENOTED AS CLASS 1, DIVISION 2. ALL ELECTRICAL WIRING AND ALL UTILIZATION EQUIPMENT LOCATED WITHIN 18' AFF IN ALL DIRECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS FOR CLASS 1, DIVISION 2 AS OUTLINED IN NEC ARTICLE 501.
7. ALL NORMAL 208/120V DEVICES SHOWN ON THIS SHEET SHALL BE SERVED FROM PANEL MRNL3, UNLESS NOTED OTHERWISE.
8. ALL GENERATOR-SOURCED 208/120V DEVICES SHOWN ON THIS SHEET SHALL BE SERVED FROM PANEL MROL1, UNLESS NOTED OTHERWISE.
9. ALTERNATE NO. 1, SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING 0131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING 0131. THIS GENERALLY INCLUDES A BATHROOM, LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

**KEYED NOTES**

- 9.301 PROVIDE NEW DEVICE IN EXISTING BACKBOX AND CIRCUIT AS INDICATED ON DRAWINGS. INTERCEPT EXISTING CONDUIT AND EXTEND TO NEW PANEL.
- 9.302 INTERCEPT AND EXTEND EXISTING CONDUIT AND BRANCH CIRCUIT TO NEW PANEL AS INDICATED ON DRAWINGS.
- 9.314 MOUNT CORD REEL TO STRUCTURE ADJACENT TO RECEPTACLE AS SHOWN ON PLANS. PROVIDE REQUIRED SUPPORTS AS NECESSARY.
- 9.318 PROVIDE 600V, 60A, 3P, 4W GROUNDING RECEPTACLE FOR EXISTING VIKING CORP MACHINE. FIELD VERIFY EXISTING CORD PLUG PRIOR TO INSTALLATION.



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

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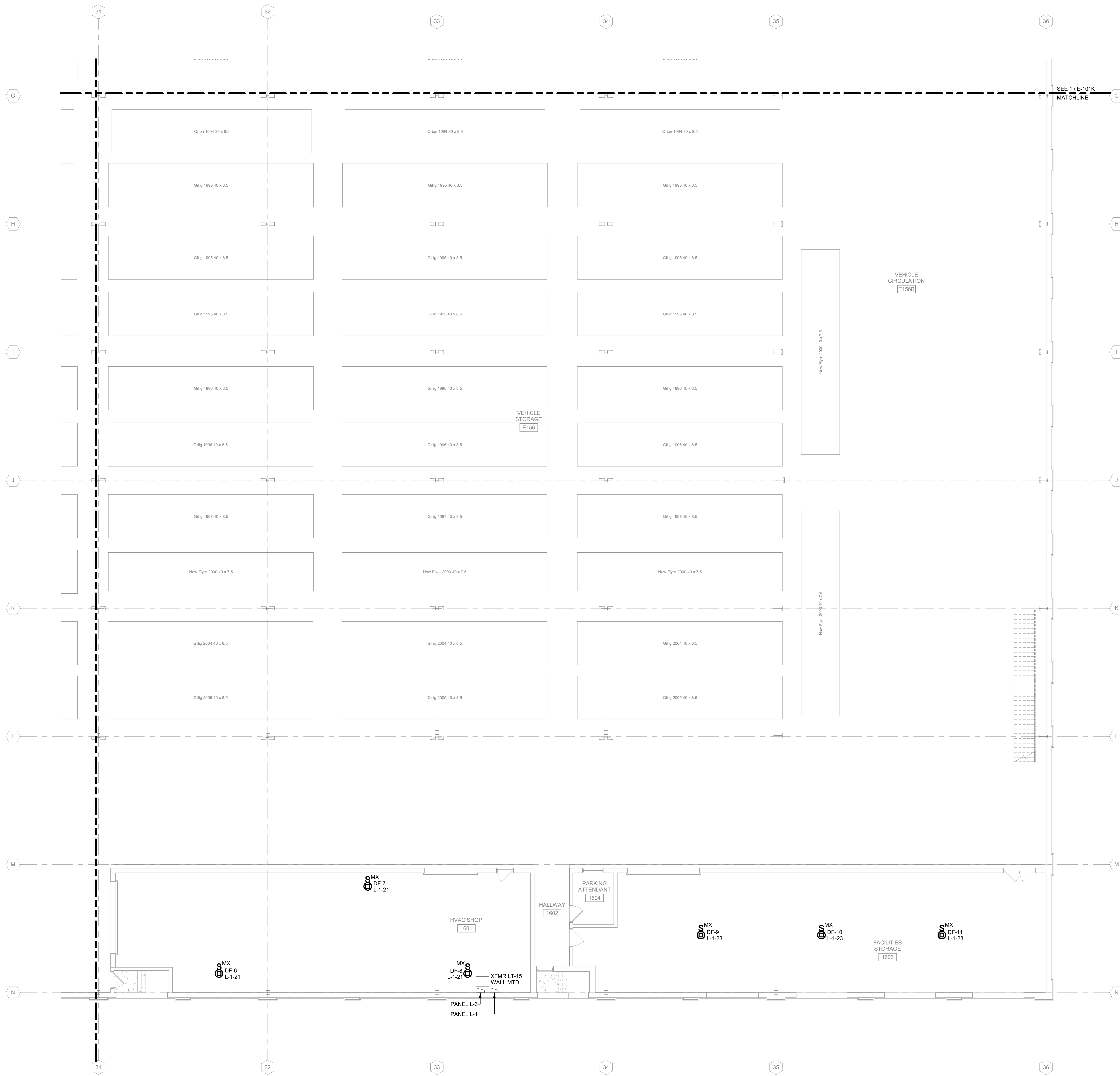
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FIRST FLOOR  
POWER PLAN - AREA F

SHEET NO.:

**E-101F**

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- POWER GENERAL NOTES:**
1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
  2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
  3. REFER TO E-5XX SERIES FOR DETAILS.
  4. REFER TO E-6XX SERIES FOR SCHEDULES.
  5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.
  6. REFER TO G-### SHEET FOR AREAS DENOTED AS CLASS 1, DIVISION 2. ALL ELECTRICAL WIRING AND ALL UTILIZATION EQUIPMENT LOCATED WITHIN 18" AFF IN ALL DIRECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS FOR CLASS 1, DIVISION 2 AS OUTLINED IN NEC ARTICLE 501.



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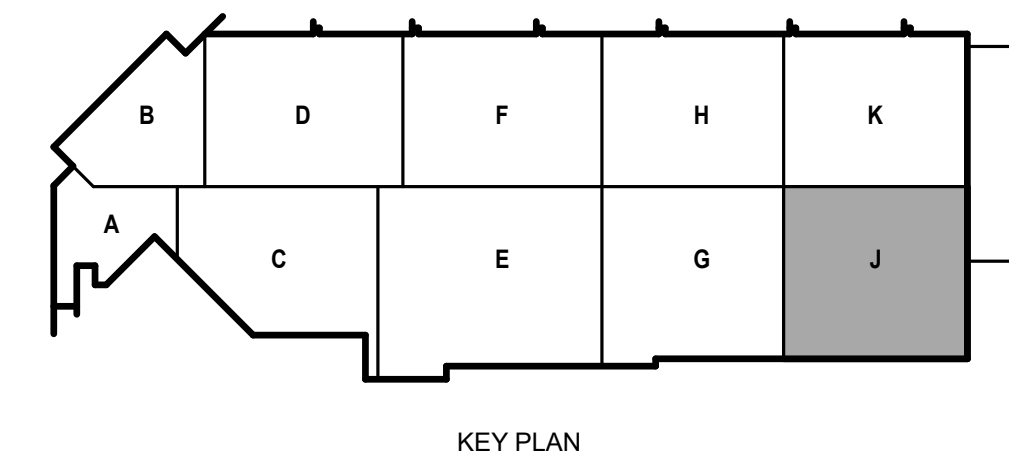
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SHEET CONTENTS  
 FIRST FLOOR  
 POWER PLAN - AREA  
 J

SHEET NO.:

**E-101J**

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



**POWER GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
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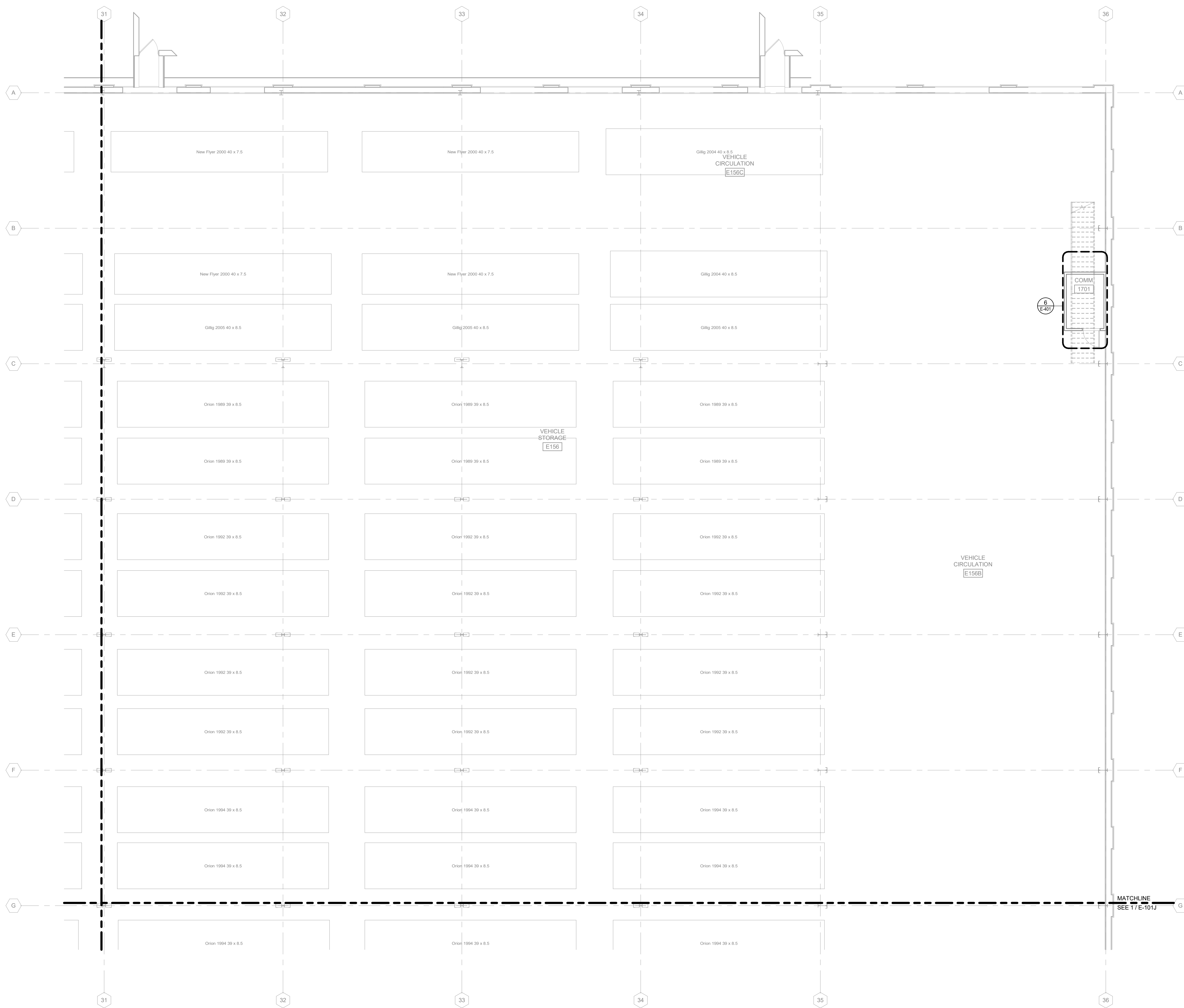
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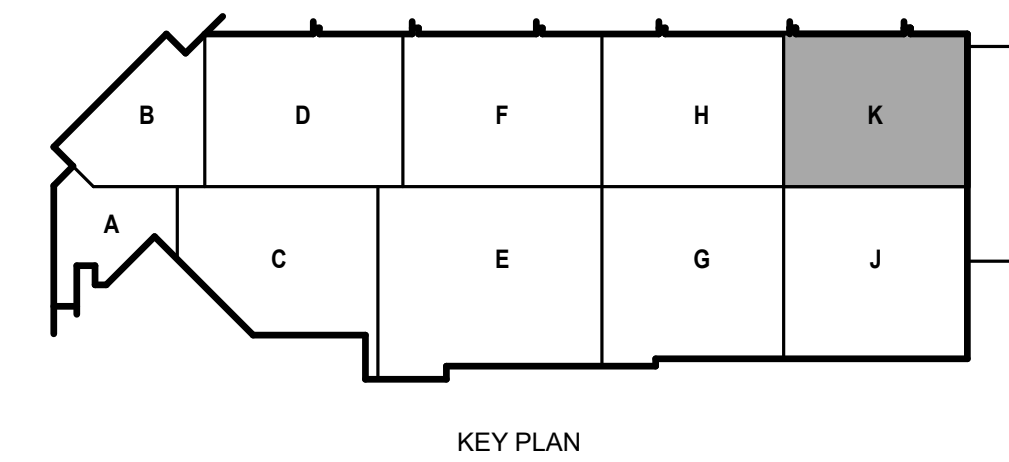
SHEET CONTENTS  
FIRST FLOOR  
POWER PLAN - AREA K

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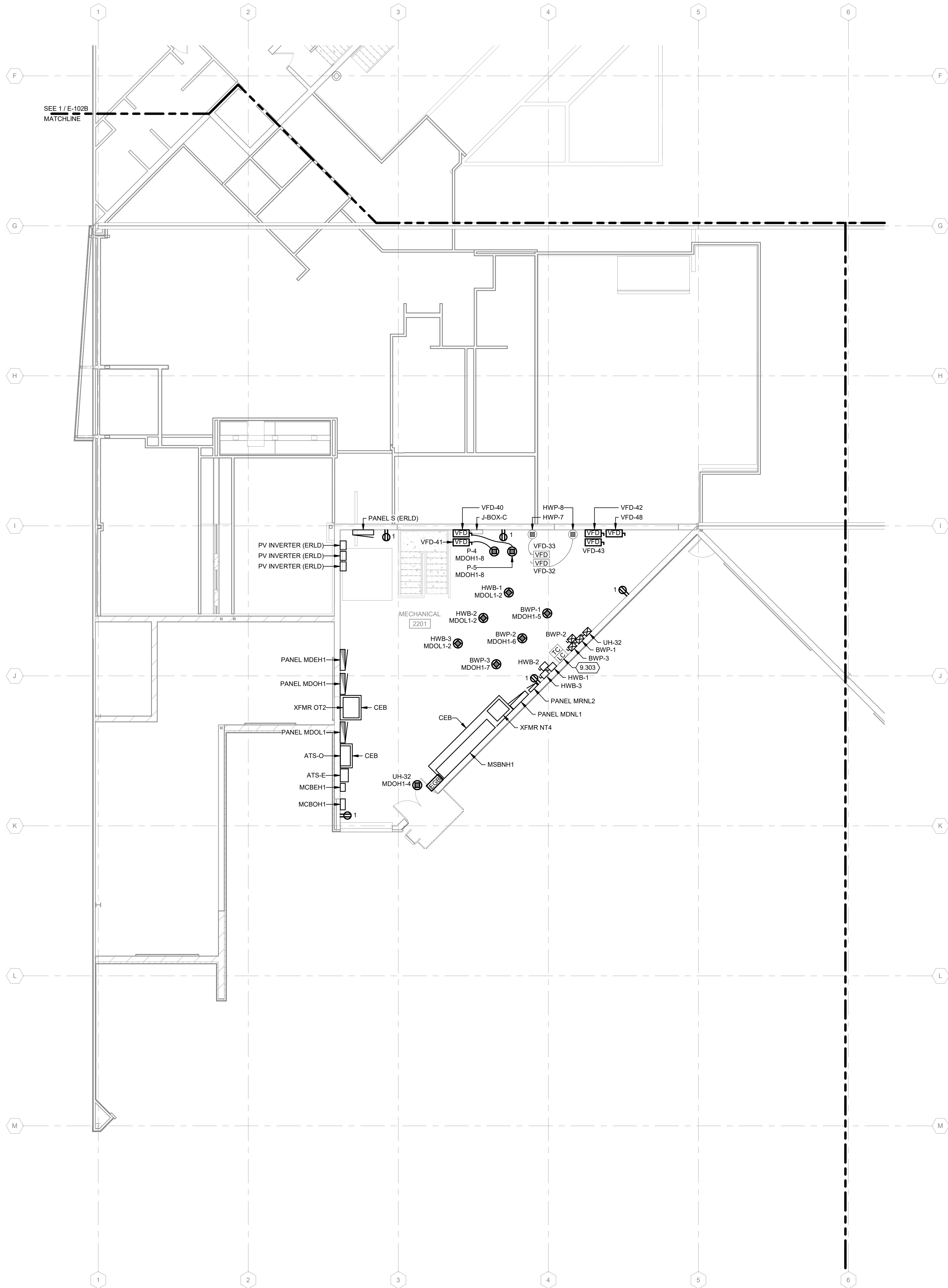
**E-101K**



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



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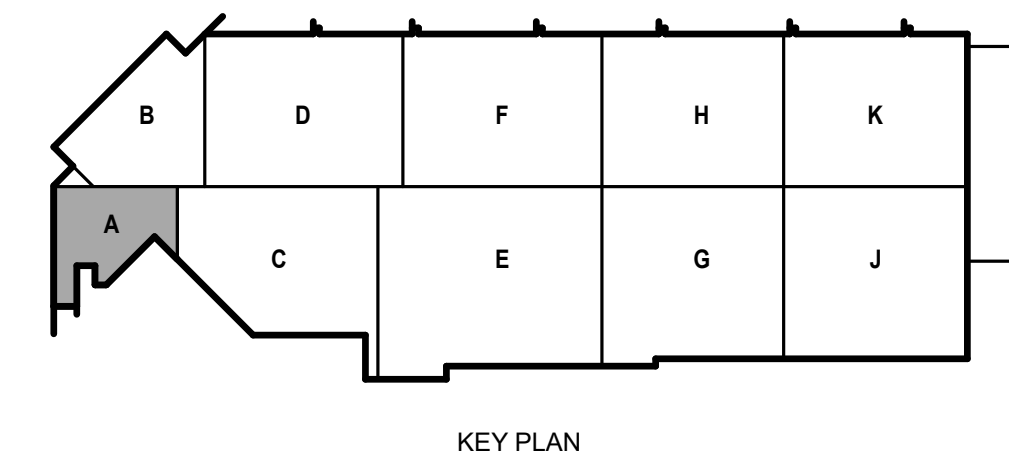
**POWER GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
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7. ALL NORMAL 120V DEVICES SHOWN ON THIS SHEET SHALL BE SERVED FROM PANEL MRNL2, UNLESS NOTED OTHERWISE.

**KEYED NOTES**

- 9.303 INTERCEPT AND EXTEND EXISTING CONDUIT AND BRANCH CIRCUIT TO NEW PANEL MRNL2.

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



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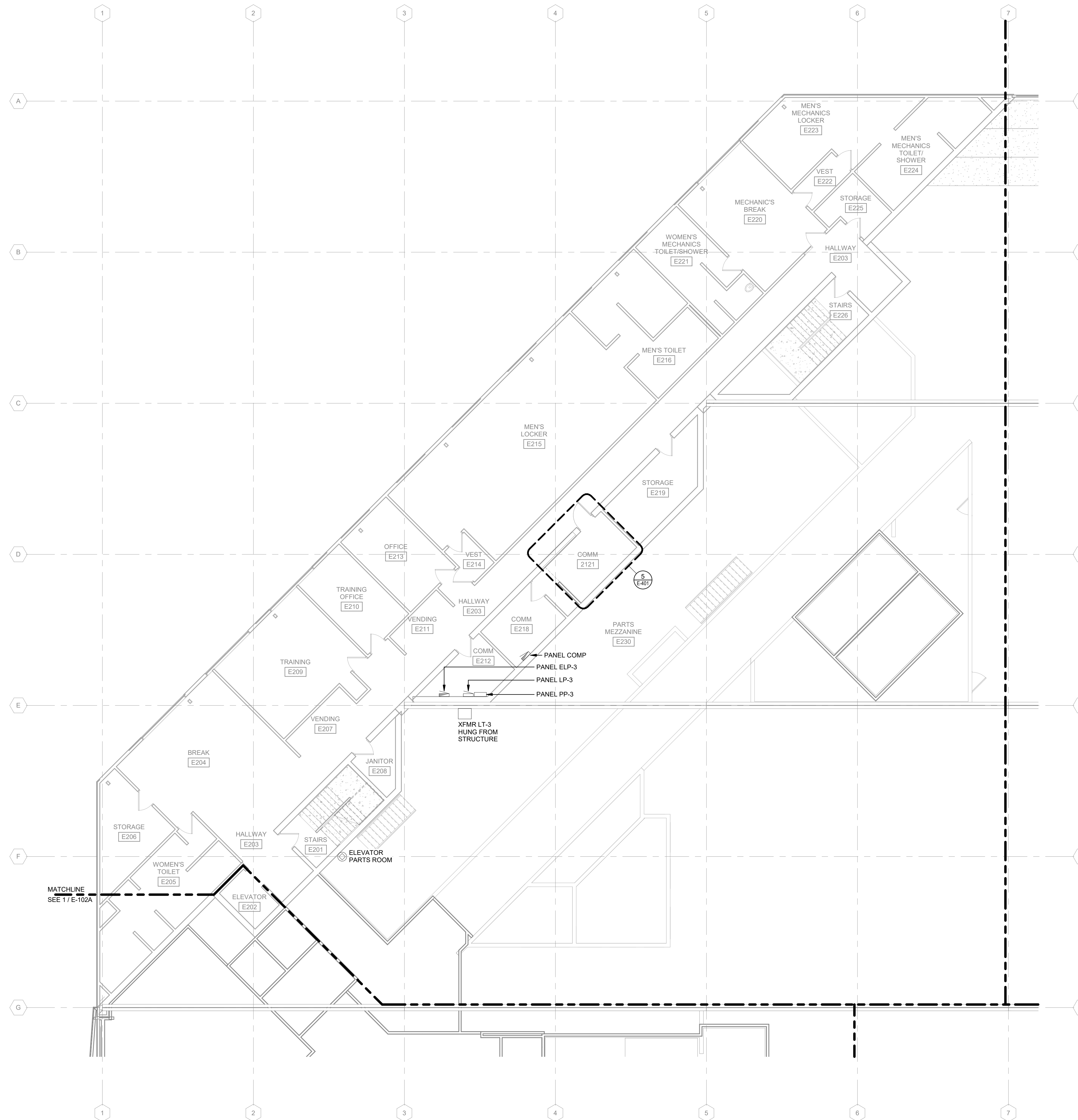
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DATE: APRIL 8, 2021  
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DRAWN BY: KAS  
CHECKED BY: SDL

DO NOT SCALE DRAWINGS  
SHEET CONTENTS  
SECOND FLOOR  
POWER PLAN - AREA  
A

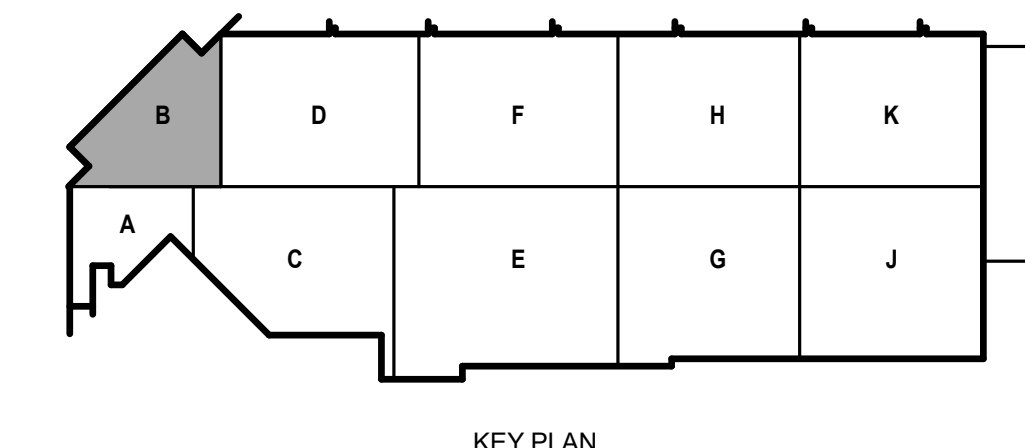
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**POWER GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.
6. REFER TO G-### SHEET FOR AREAS DENOTED AS CLASS 1, DIVISION 2. ALL ELECTRICAL WIRING AND ALL UTILIZATION EQUIPMENT LOCATED WITHIN 18" AFF IN ALL DIRECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS FOR CLASS 1, DIVISION 2 AS OUTLINED IN NEC ARTICLE 501.



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



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SHEET CONTENTS  
SECOND FLOOR  
POWER PLAN - AREA  
B

SHEET NO.:

**E-102B**

**POWER GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.
6. REFER TO G-### SHEET FOR AREAS DENOTED AS CLASS 1, DIVISION 2. ALL ELECTRICAL WIRING AND ALL UTILIZATION EQUIPMENT LOCATED WITHIN 18" AFF IN ALL DIRECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS FOR CLASS 1, DIVISION 2 AS OUTLINED IN NEG. ARTICLE 501.
7. ALL NORMAL 120V DEVICES SHOWN ON THIS SHEET SHALL BE SERVED FROM PANEL MRNL3, UNLESS NOTED OTHERWISE.
8. ALL SWITCHES AND RECEPTACLES IN WATER/COMPRESSOR ROOM 2305 SHALL BE MOUNTED AT 48" AFF TO CENTERLINE, UNLESS NOTED OTHERWISE.

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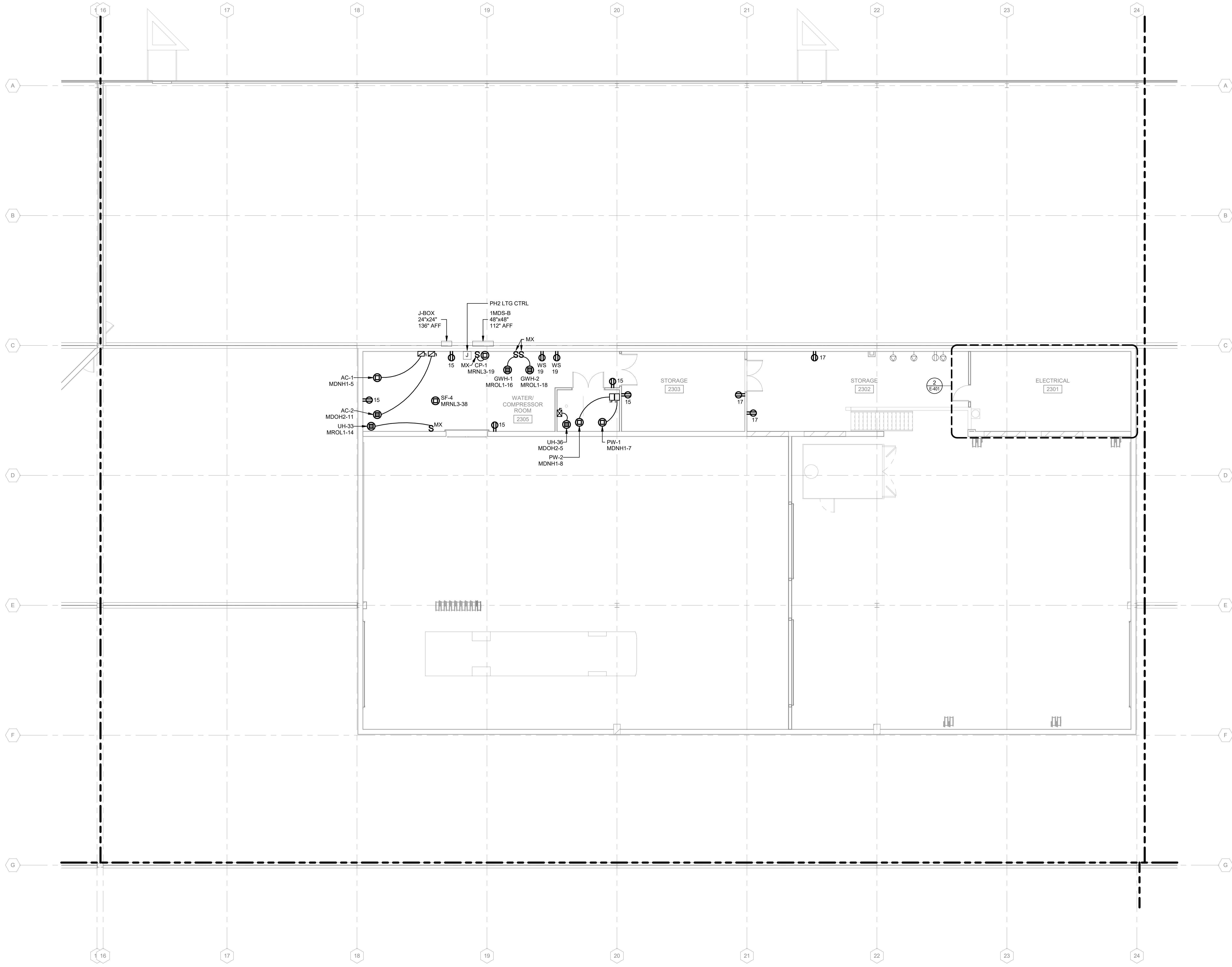
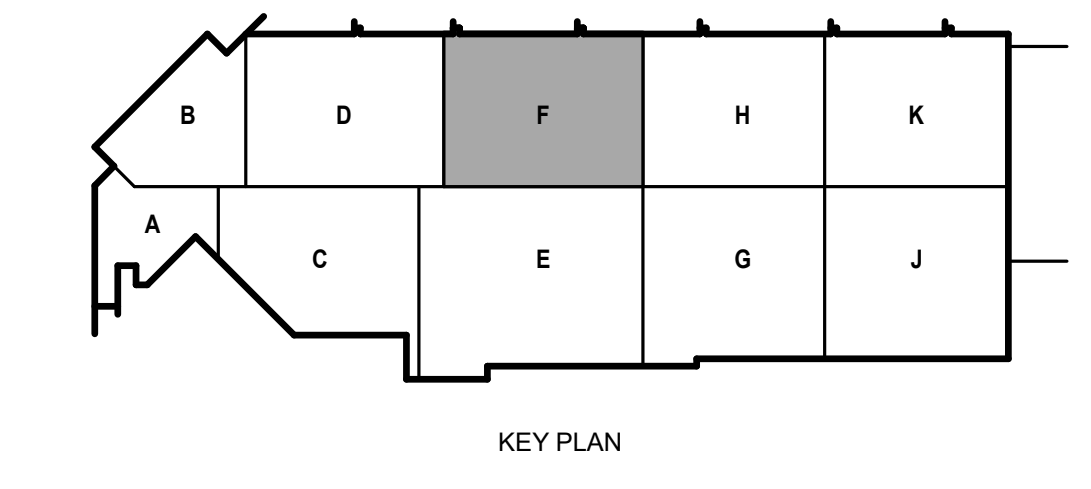
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 SHEET CONTENTS  
 SECOND FLOOR  
 POWER PLAN - AREA F

SHEET NO.:

**E-102F**



**1 SECOND FLOOR POWER PLAN - AREA F**  
 1/8" = 1'-0"

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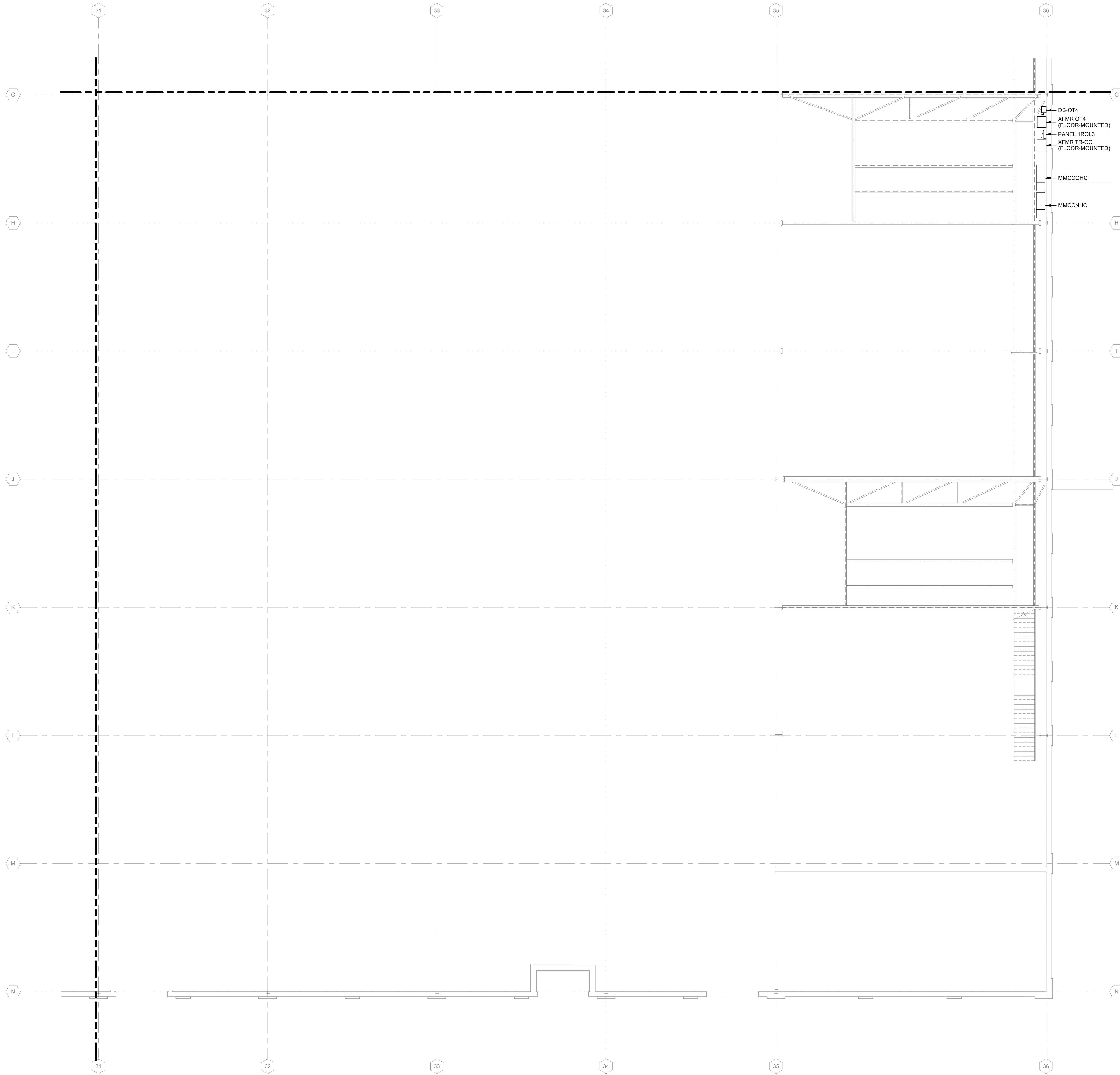
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SECOND FLOOR  
POWER PLAN - AREA  
J

SHEET NO.:

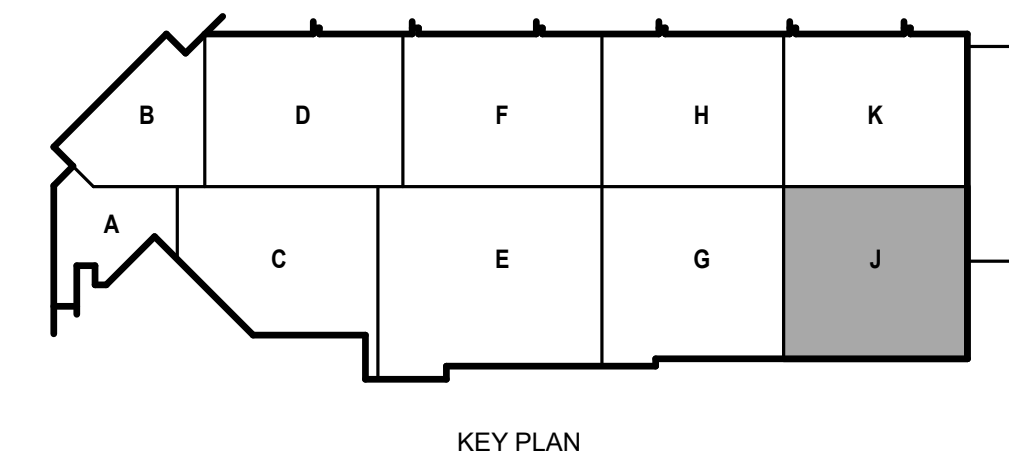
**E-102J**

**POWER GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.
6. REFER TO G-### SHEET FOR AREAS DENOTED AS CLASS 1, DIVISION 2. ALL ELECTRICAL WIRING AND ALL UTILIZATION EQUIPMENT LOCATED WITHIN 18" AFF IN ALL DIRECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS FOR CLASS 1, DIVISION 2 AS OUTLINED IN NEC ARTICLE 501.



**1** SECOND FLOOR POWER PLAN - AREA J  
1/8" = 1'-0"



**POWER GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
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6. REFER TO G-### SHEET FOR AREAS DENOTED AS CLASS 1, DIVISION 2. ALL ELECTRICAL WIRING AND ALL UTILIZATION EQUIPMENT LOCATED WITHIN 18" AFF IN ALL DIRECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS FOR CLASS 1, DIVISION 2 AS OUTLINED IN NEC ARTICLE 501.

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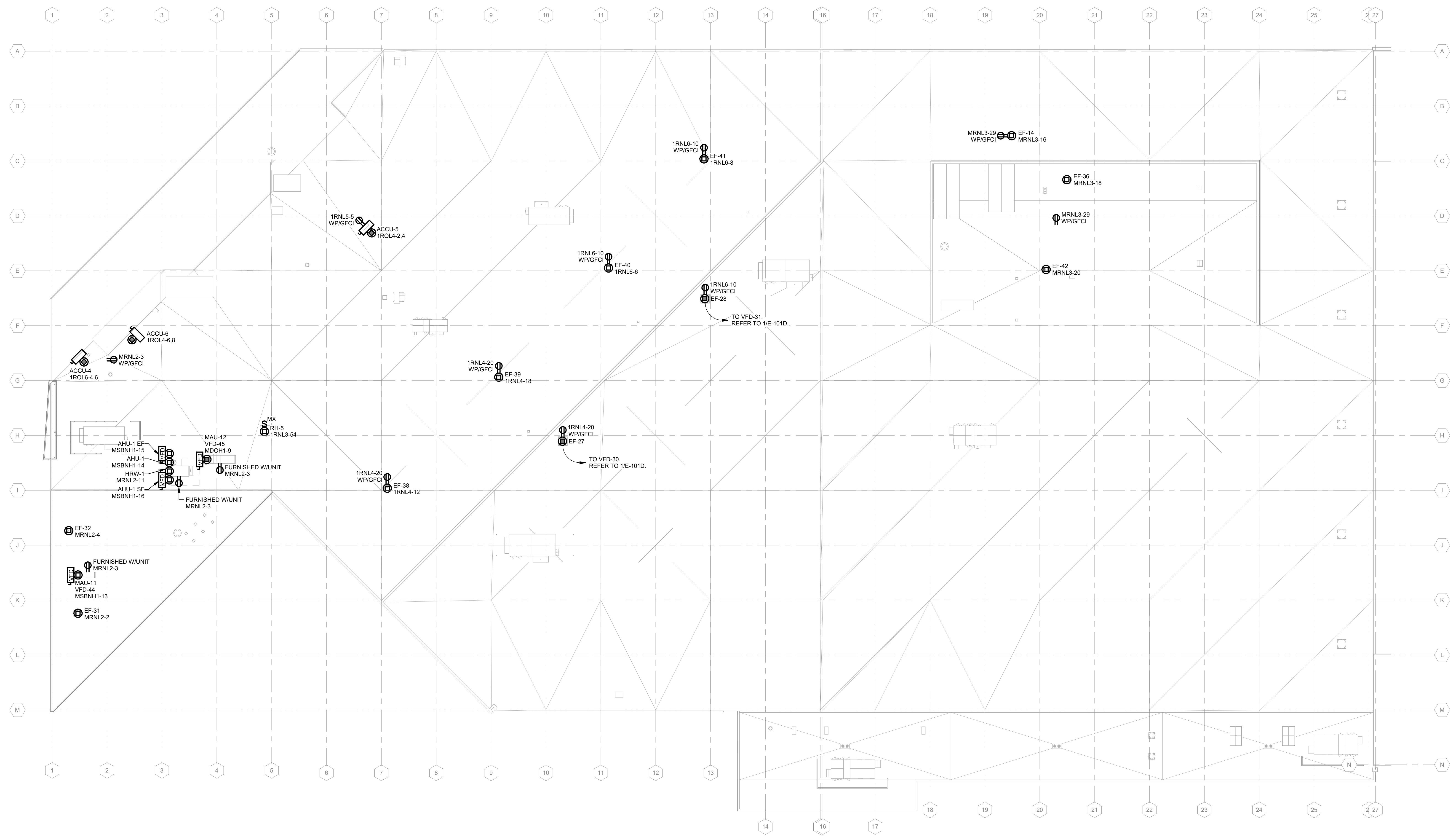
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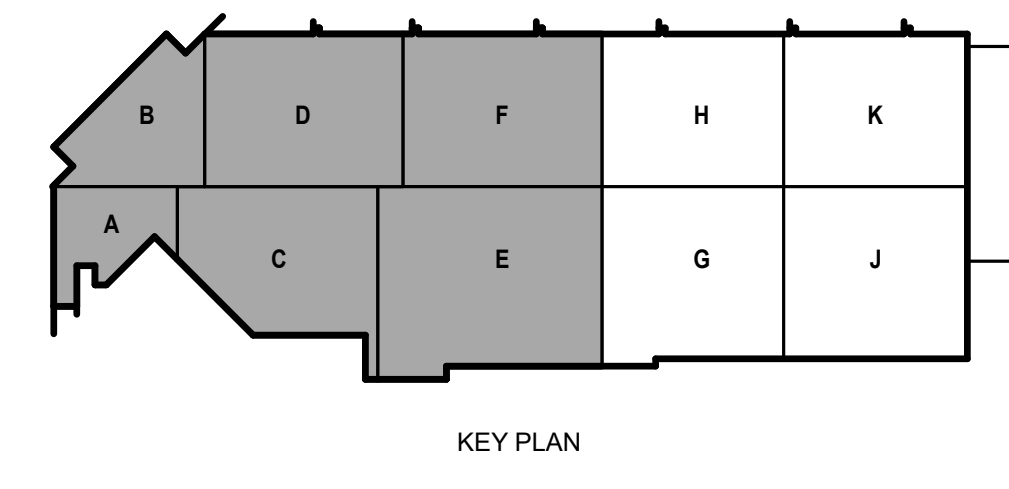
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SHEET CONTENTS  
 ROOF POWER PLAN -  
 AREAS A,B,C,D,E,F

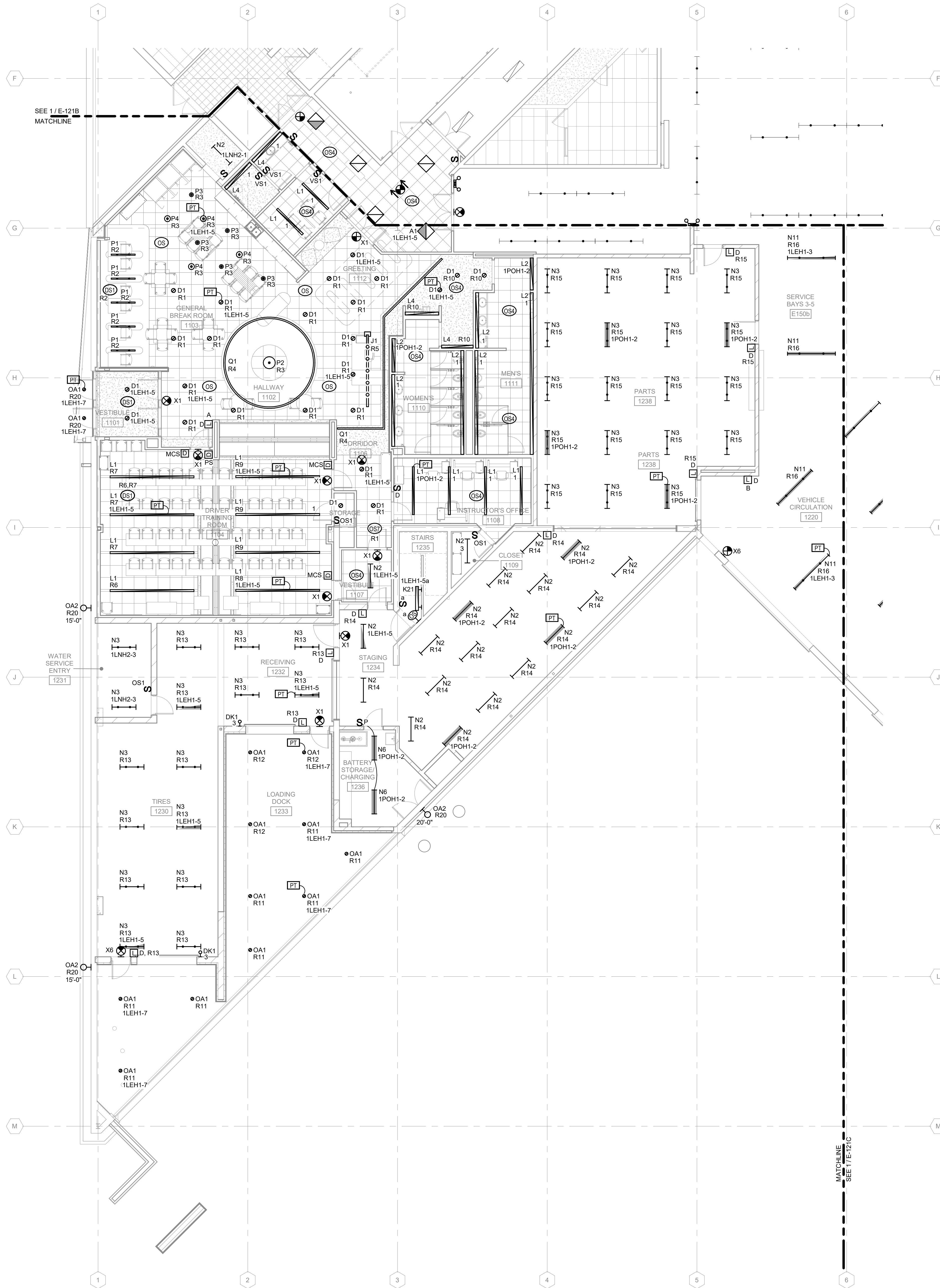
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**1 ROOF POWER PLAN - AREAS A,B,C,D,E,F**  
 1" = 20'-0"



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**LIGHTING GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.
6. ALL NORMAL 277V LIGHTING SHOWN ON THIS SHEET SHALL BE SERVED FROM PANEL 1LNH2 UNLESS OTHERWISE NOTED.
7. ALL 277V EMERGENCY AND EXIT LIGHTING SHOWN ON THIS SHEET SHALL BE SERVED FROM PANEL 1LEH1 UNLESS OTHERWISE NOTED.
8. ALL 277V OPTIONAL LIGHTING SHOWN ON THIS SHEET SHALL BE SERVED FROM PANEL 1POH1 UNLESS OTHERWISE NOTED.
9. ALL EXIT SIGNS SHOWN ON THIS PLAN SHALL BE CIRCUIT TO 1LEH1-5 UNLESS NOTED OTHERWISE.
10. ALL RELAY-CONTROLLED LIGHTING ON THIS SHEET SHALL BE SERVED FROM LCP-B, UNLESS NOTED OTHERWISE.

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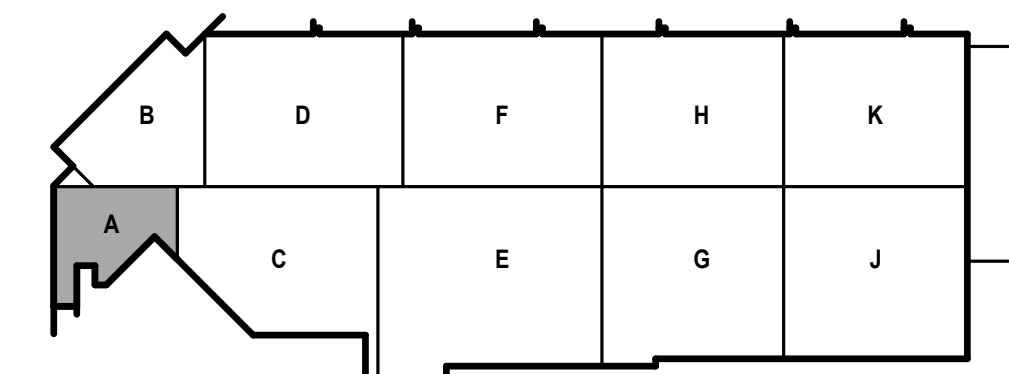
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SHEET CONTENTS  
 FIRST FLOOR  
 LIGHTING PLAN -  
 AREA A

SHEET NO.:



KEY PLAN

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

**E-121A**



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SHEET CONTENTS  
FIRST FLOOR  
LIGHTING PLAN -  
AREA B

SHEET NO.:

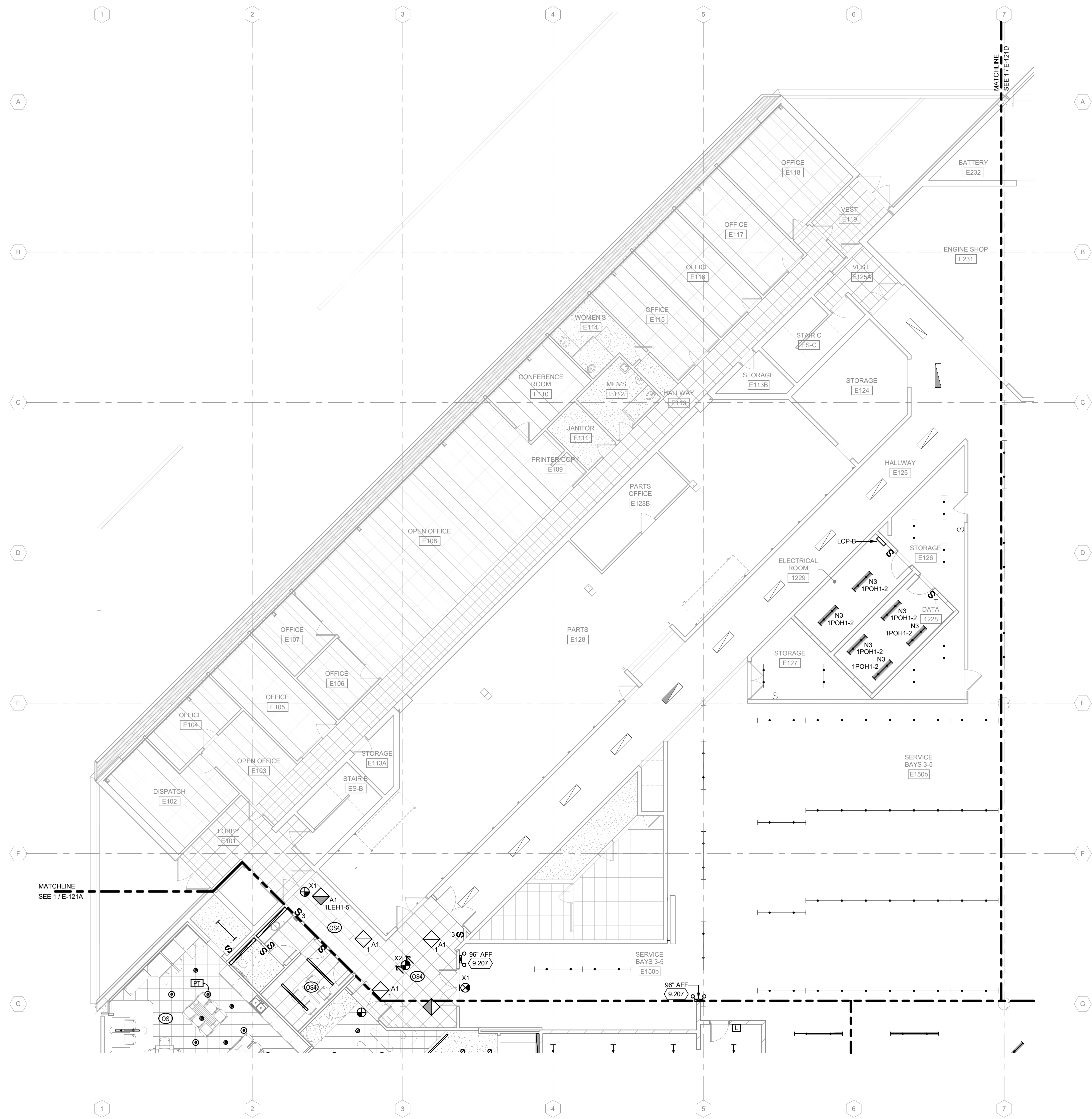
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**LIGHTING GENERAL NOTES:**

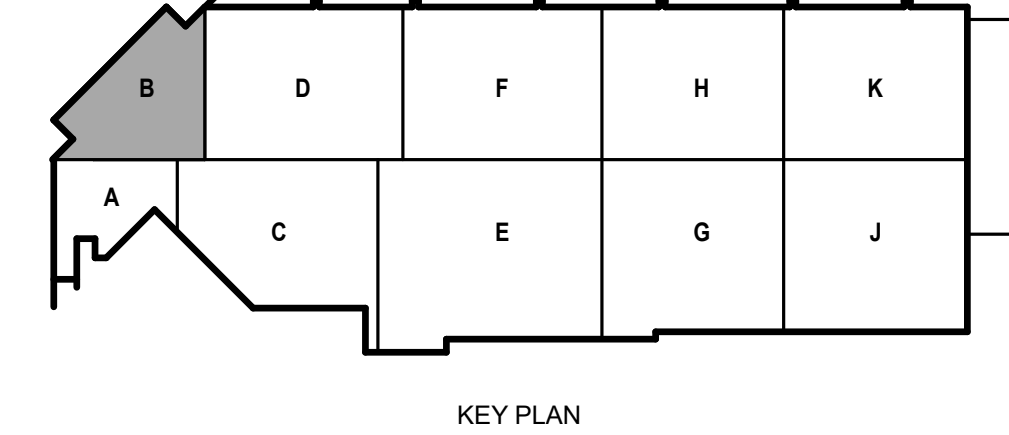
1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.
6. ALL NORMAL 277V LIGHTING SHOWN ON THIS SHEET SHALL BE SERVED FROM PANEL 1LH2, UNLESS OTHERWISE NOTED.
7. ALL 277V EMERGENCY AND EXIT LIGHTING SHOWN ON THIS SHEET SHALL BE SERVED FROM PANEL 1LH1, UNLESS OTHERWISE NOTED.
8. ALL 277V OPTIONAL LIGHTING SHOWN ON THIS SHEET SHALL BE SERVED FROM PANEL 1POH1, UNLESS OTHERWISE NOTED.
9. ALL EXIT SIGNS SHOWN ON THIS PLAN SHALL BE CIRCUIT TO 1LEH1-5 UNLESS NOTED OTHERWISE.
10. ALL RELAY-CONTROLLED LIGHTING ON THIS SHEET SHALL BE SERVED FROM LCP-B, UNLESS NOTED OTHERWISE.

**KEYED NOTES**

- 9.207 EXTEND 2#12 AND 1#12 GND IN 1/2" C TO EXISTING 277V UNSWITCHED LIGHTING BRANCH CIRCUIT SERVING THIS AREA.



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



KEY PLAN



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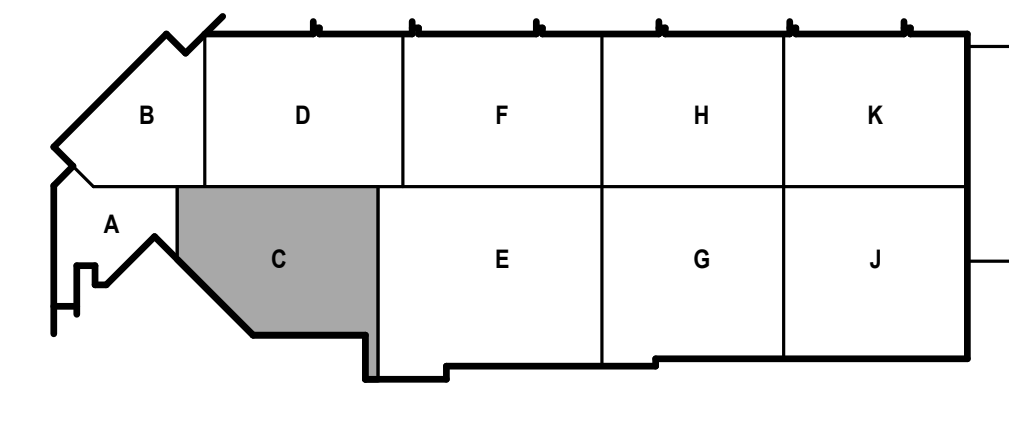
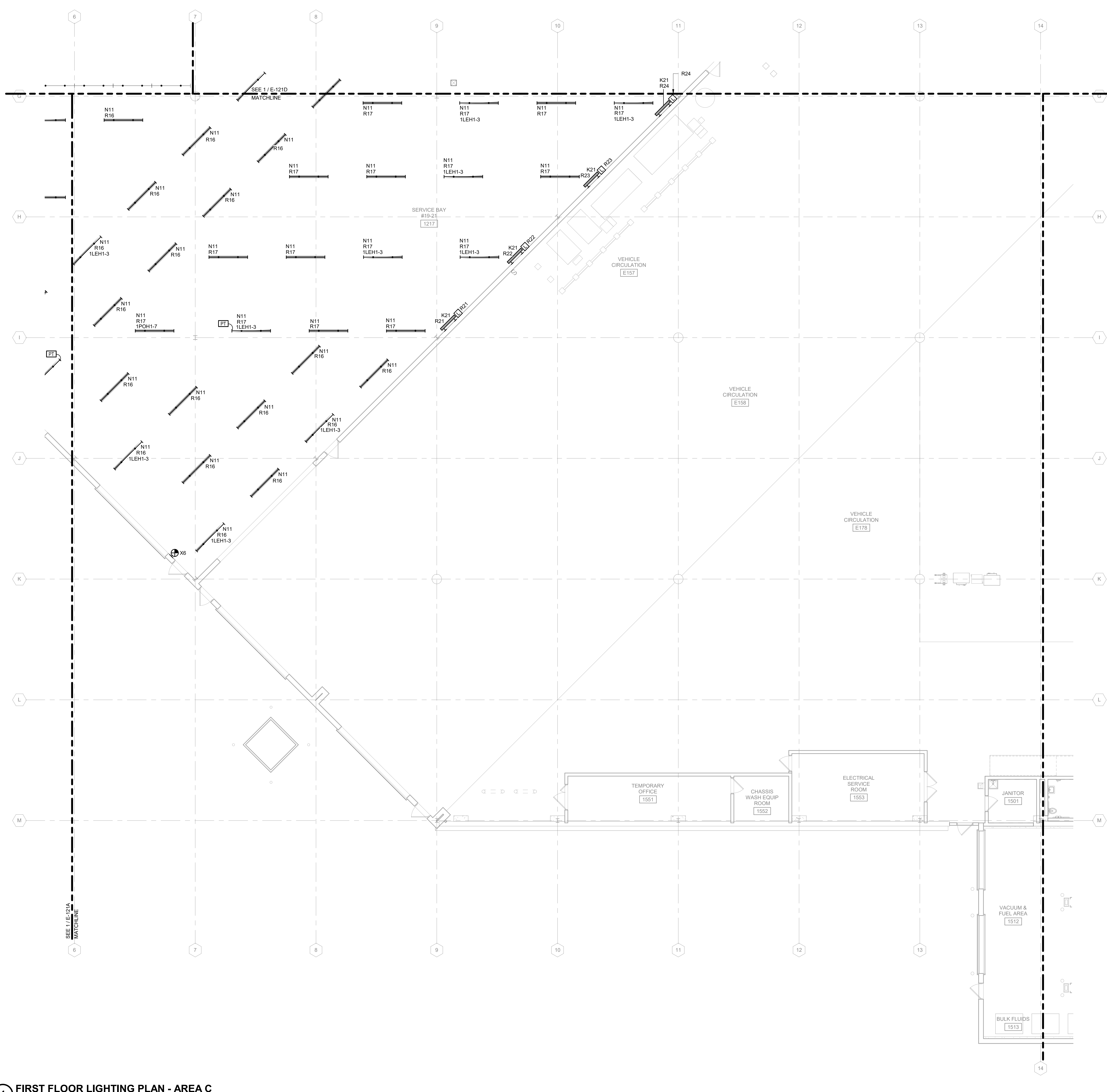
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SHEET CONTENTS  
FIRST FLOOR  
LIGHTING PLAN -  
AREA C

SHEET NO.:

**LIGHTING GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.
6. ALL NORMAL 277V LIGHTING SHOWN ON THIS SHEET SHALL BE SERVED FROM PANEL 1LNH2, UNLESS OTHERWISE NOTED.
7. ALL 277V EMERGENCY AND EXIT LIGHTING SHOWN ON THIS SHEET SHALL BE SERVED FROM PANEL 1PH01, UNLESS OTHERWISE NOTED.
8. ALL 277V OPTIONAL LIGHTING SHOWN ON THIS SHEET SHALL BE SERVED FROM PANEL 1PH01, UNLESS OTHERWISE NOTED.
9. ALL EXIT SIGNS SHOWN ON THIS PLAN SHALL BE CIRCUIT TO 1LEH1-3 UNLESS NOTED OTHERWISE.
10. ALL RELAY-CONTROLLED LIGHTING ON THIS SHEET SHALL BE SERVED FROM LCP-B, UNLESS NOTED OTHERWISE.



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

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**LIGHTING GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.
6. ALL NORMAL 277V LIGHTING SHOWN ON THIS SHEET SHALL BE SERVED FROM PANEL 1LNH2, UNLESS OTHERWISE NOTED.
7. ALL 277V EMERGENCY AND EXIT LIGHTING SHOWN ON THIS SHEET SHALL BE SERVED FROM PANEL 1LEH1, UNLESS OTHERWISE NOTED.
8. ALL 277V OPTIONAL LIGHTING SHOWN ON THIS SHEET SHALL BE SERVED FROM PANEL 1PON1, UNLESS OTHERWISE NOTED.
9. ALL EXIT SIGNS SHOWN ON THIS PLAN SHALL BE CIRCUIT TO 1LEH1-3 UNLESS NOTED OTHERWISE.
10. ALL RELAY-CONTROLLED LIGHTING ON THIS SHEET SHALL BE SERVED FROM LCP-B, UNLESS NOTED OTHERWISE.



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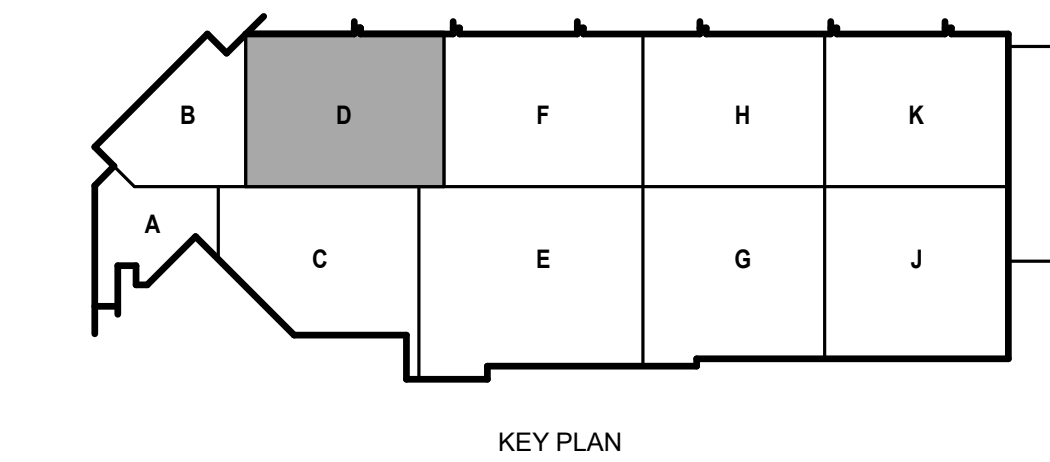
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SHEET CONTENTS  
FIRST FLOOR  
LIGHTING PLAN -  
AREA D

SHEET NO.:

**E-121D**



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

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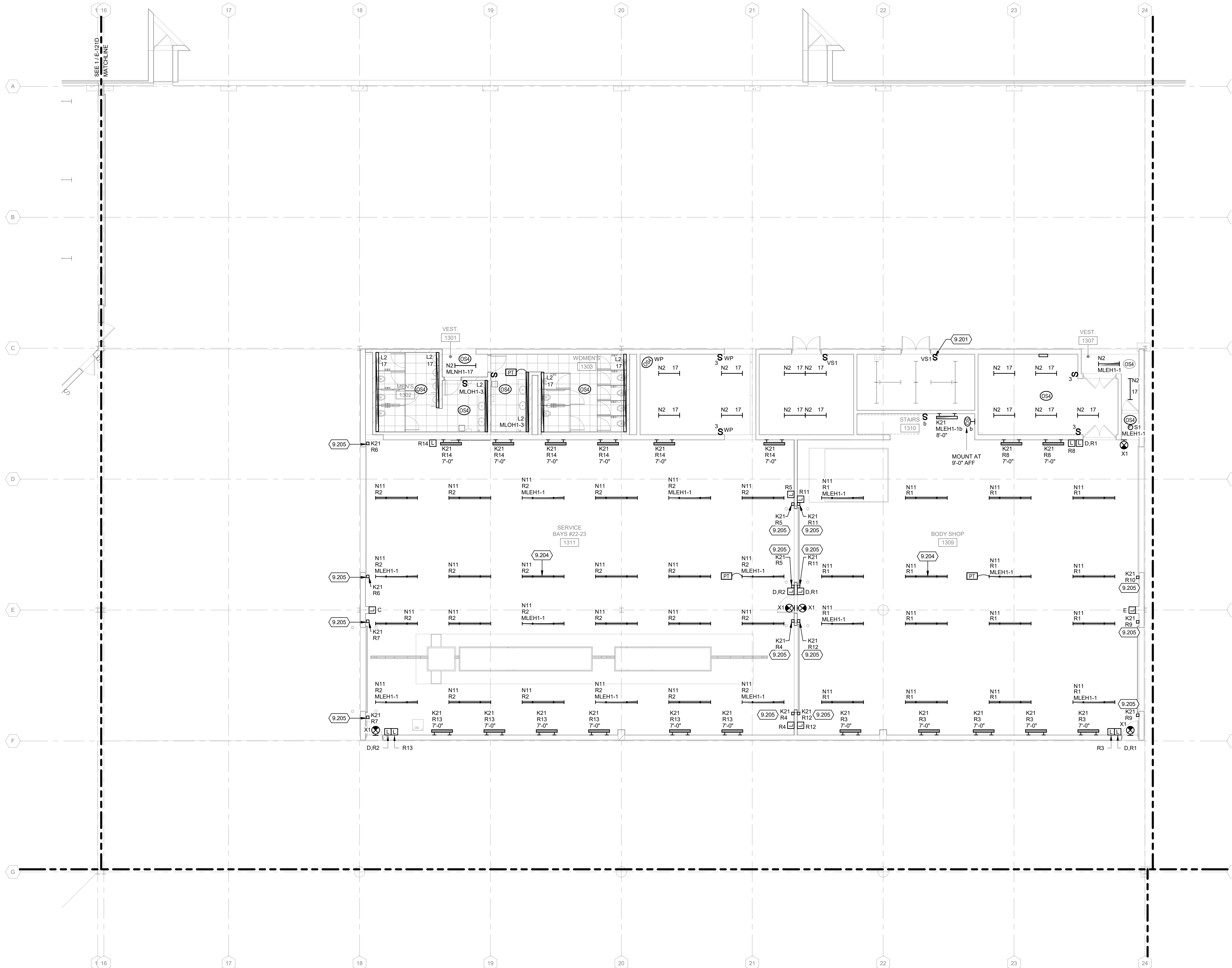
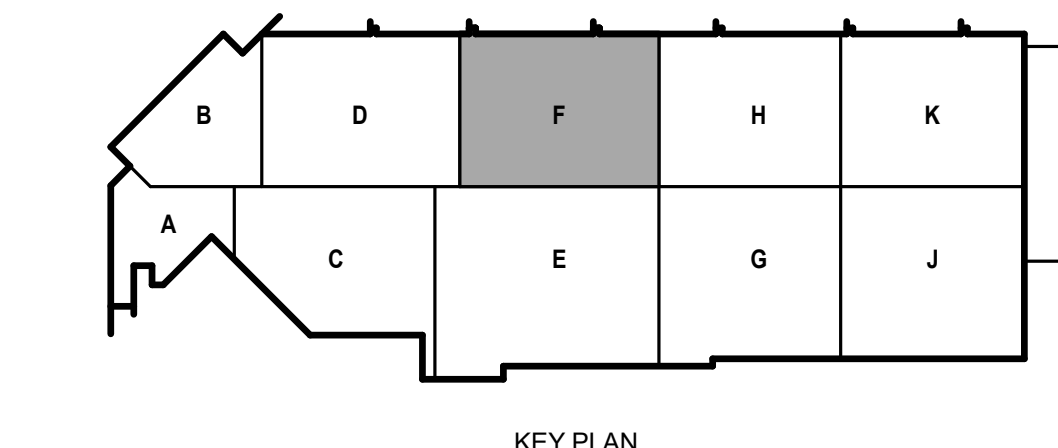


**LIGHTING GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.
6. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
7. ALL NORMAL 277V LIGHTING THIS SHEET SHALL BE SERVED FROM PANEL MLNH1, UNLESS NOTED OTHERWISE.
8. ALL OPTIONAL STANDBY 277V LIGHTING THIS SHEET SHALL BE SERVED FROM PANEL MLOH1, UNLESS NOTED OTHERWISE.
9. ALL EXIT SIGNS SHOWN ON THIS PLAN SHALL BE CIRCUIT TO MLEH1-1, UNLESS NOTED OTHERWISE.
10. ALL RELAY-CONTROLLED LIGHTING ON THIS SHEET SHALL BE SERVED FROM LCP-B/R, UNLESS NOTED OTHERWISE.
11. ALTERNATE NO. 1. SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

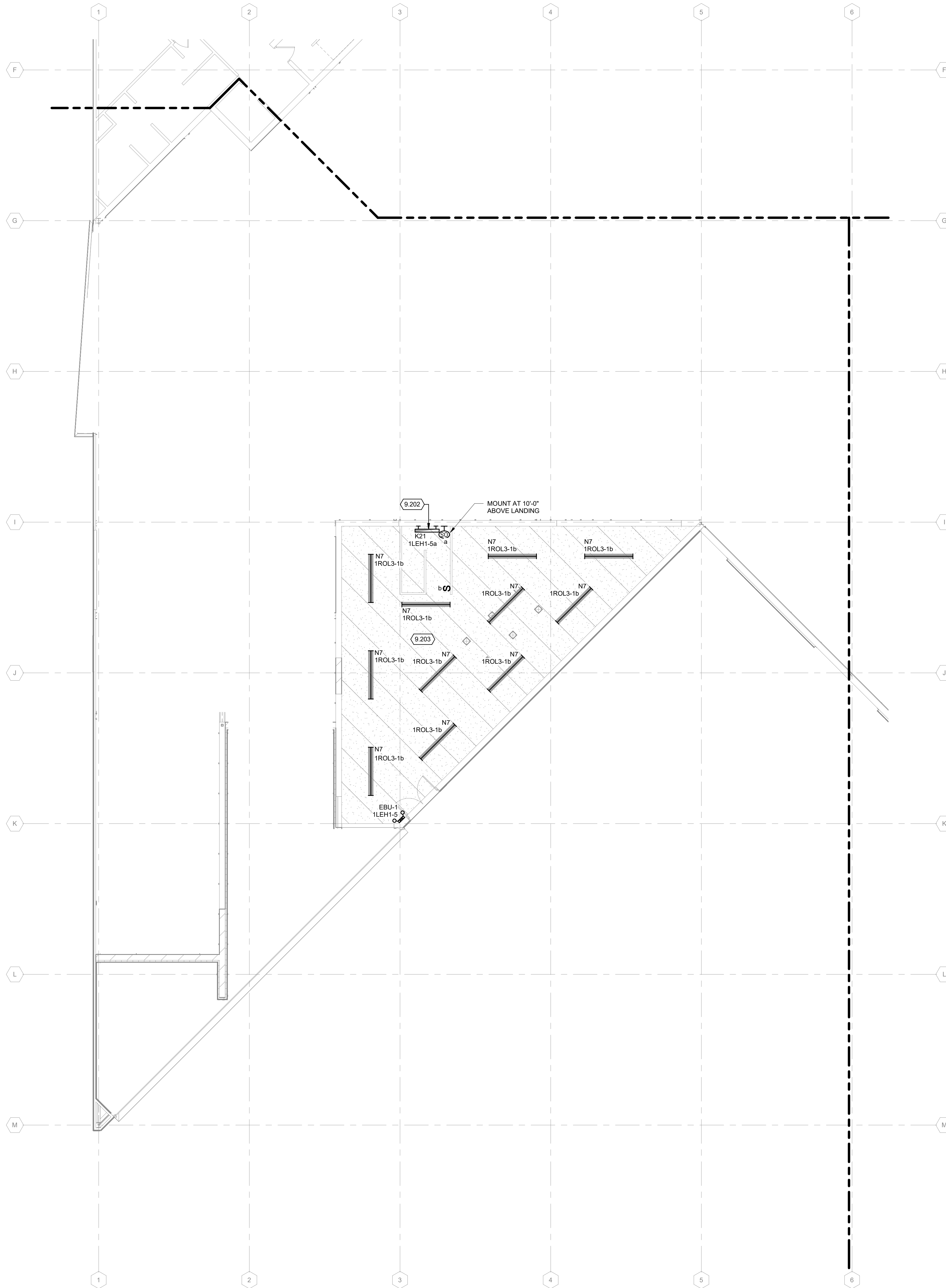
**KEYED NOTES**

- 9.201 NEW DEVICE INSTALLED IN EXISTING BACKBOX AND CONNECTED TO LIGHTING BRANCH WIRING LEFT IN PLACE DURING DEMOLITION.
- 9.204 MOUNT 21"-9" TO BOTTOM OF FIXTURE (TYP)
- 9.205 MOUNT VERTICALLY AT 5'-0" AFF TO THE BOTTOM OF FIXTURE. TYPICAL.



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

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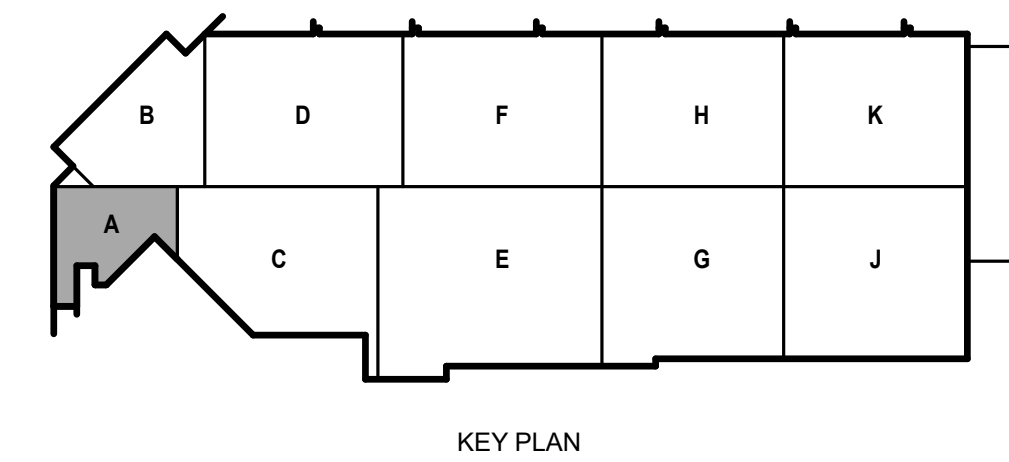
**LIGHTING GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.

**KEYED NOTES**

- 9.202 MOUNT 9'-0" ABOVE INTERMEDIATE LANDING
- 9.203 COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES IN MECHANICAL 2201 WITH PIPING AND DUCT WORK.

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



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SHEET CONTENTS  
SECOND FLOOR LIGHTING PLAN - AREA A

SHEET NO.:

**E-122A**



**LIGHTING GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-7XX SERIES FOR ONE-LINE DIAGRAMS.
6. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
7. ALL NORMAL 277V LIGHTING THIS SHEET SHALL BE SERVED FROM PANEL MLNH1, UNLESS NOTED OTHERWISE.
8. ALL OPTIONAL STANDBY 277V LIGHTING THIS SHEET SHALL BE SERVED FROM PANEL MLCH1, UNLESS NOTED OTHERWISE.
9. ALL EXIT SIGNS SHOWN ON THIS PLAN SHALL BE CIRCUIT TO MLEH1-1, UNLESS NOTED OTHERWISE.
10. ALL RELAY-CONTROLLED LIGHTING ON THIS SHEET SHALL BE SERVED FROM LCP-BR, UNLESS NOTED OTHERWISE.
11. ALTERNATE NO. 1, SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

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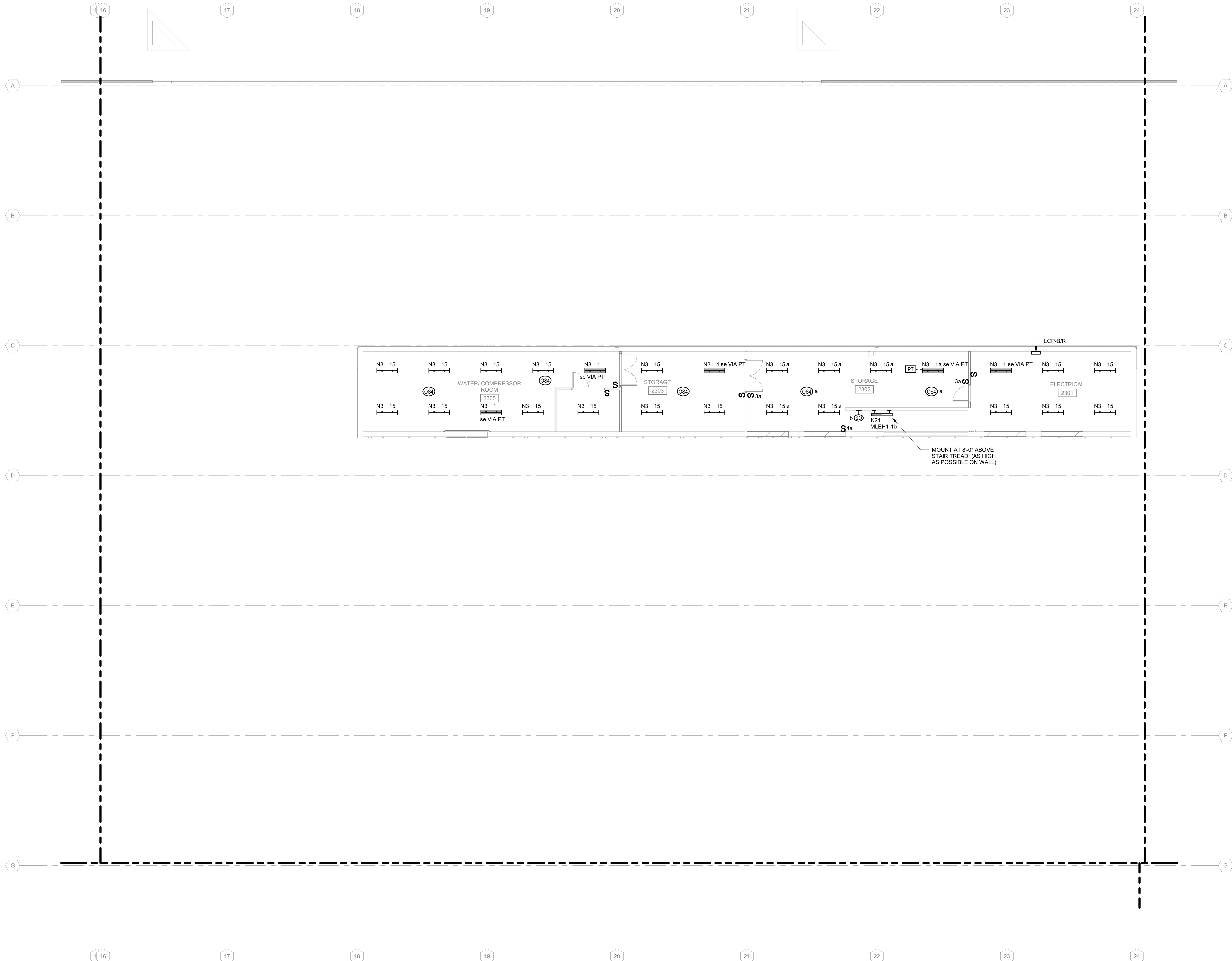
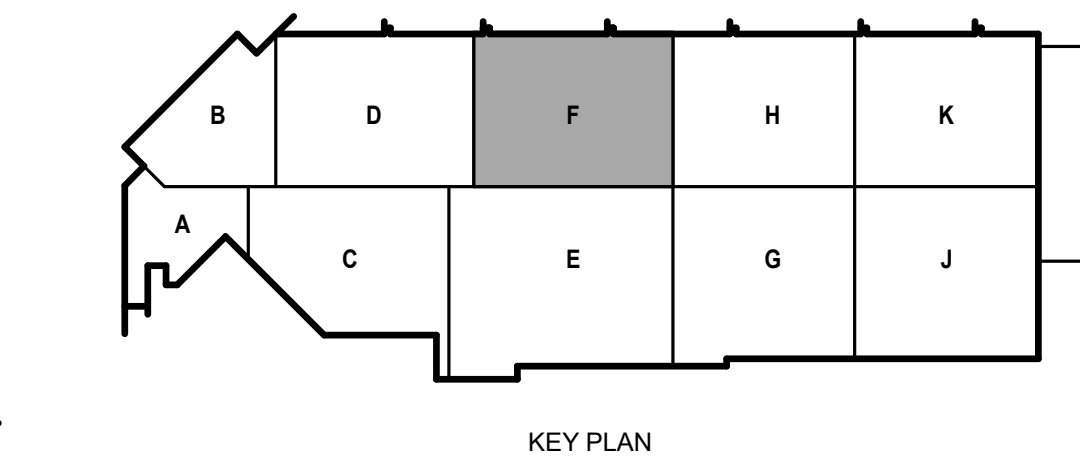
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SHEET CONTENTS  
SECOND FLOOR  
LIGHTING PLAN -  
AREA F

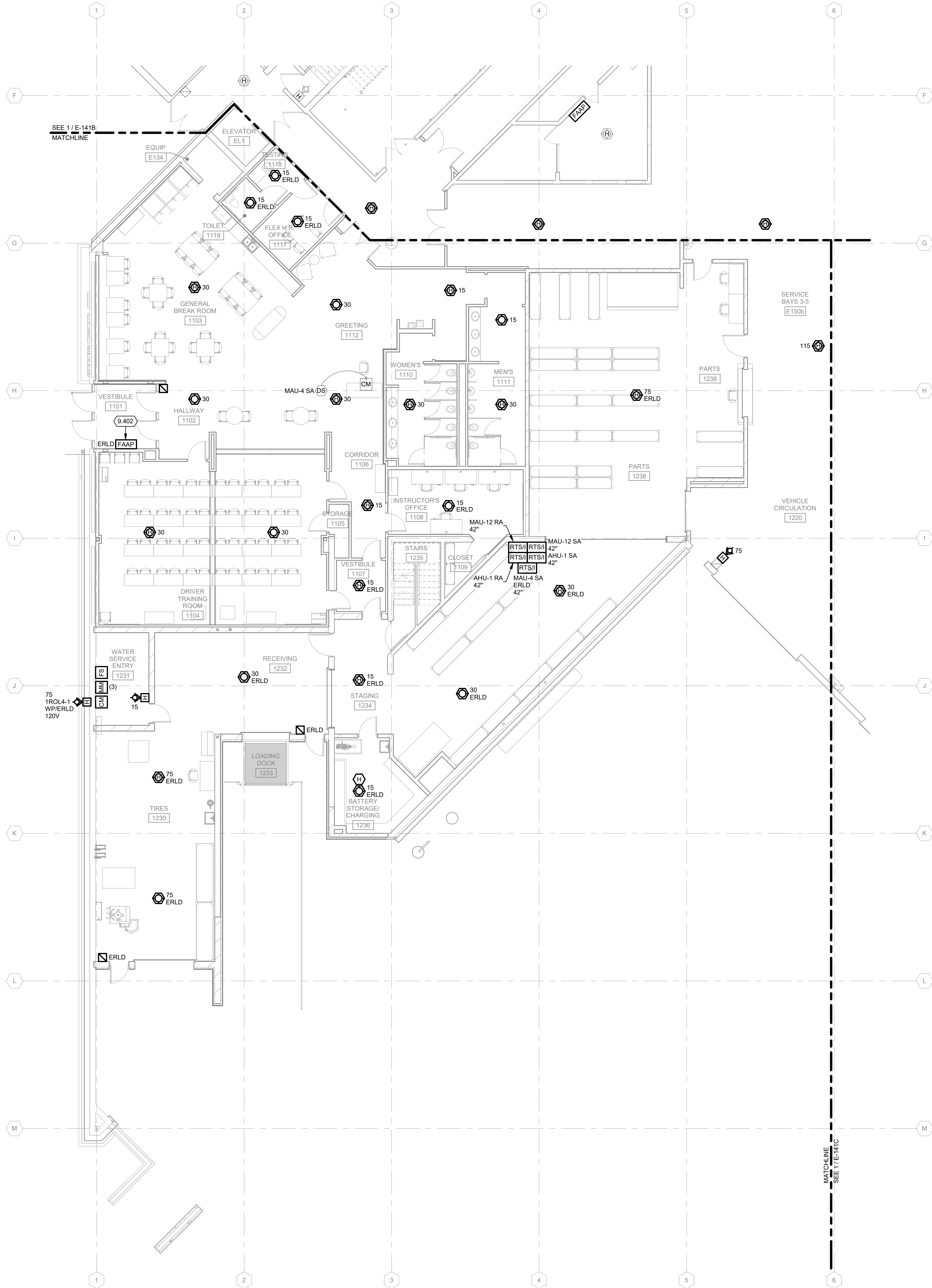
SHEET NO.:

**E-122F**



**1 SECOND FLOOR LIGHTING PLAN - AREA F**  
1/8" = 1'-0"

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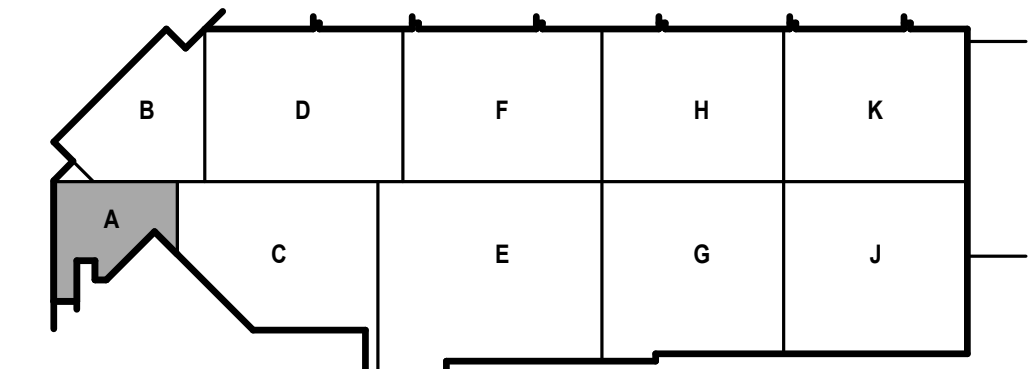
**FIRE ALARM GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.

**KEYED NOTES**

- 9.402 RELOCATED ANNUNCIATOR PANEL. PROVIDE WITH NEW FLUSH MOUNTED BACKBOX AND MOUNT 48" ABOVE FINISHED FLOOR.

**1** FIRST FLOOR FIRE ALARM PLAN - AREA A  
1/8" = 1'-0"



KEY PLAN



**CITY OF MADISON  
METRO TRANSIT PHASE 3A - MAINTENANCE AND  
DRIVER FACILITY IMPROVEMENTS**  
1101 EAST WASHINGTON AVE.  
MADISON, WI 53703

ISSUED  
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CONTRACT NO.: 8981  
RFP NO.: 4503500-190896.03  
DATE: APRIL 8, 2021  
DESIGNED BY: MAM  
DRAWN BY: KAS  
CHECKED BY: SDL  
DO NOT SCALE DRAWINGS

SHEET CONTENTS  
FIRST FLOOR FIRE  
ALARM PLAN - AREA  
A

SHEET NO.:

**E-141A**

**FIRE ALARM GENERAL NOTES:**

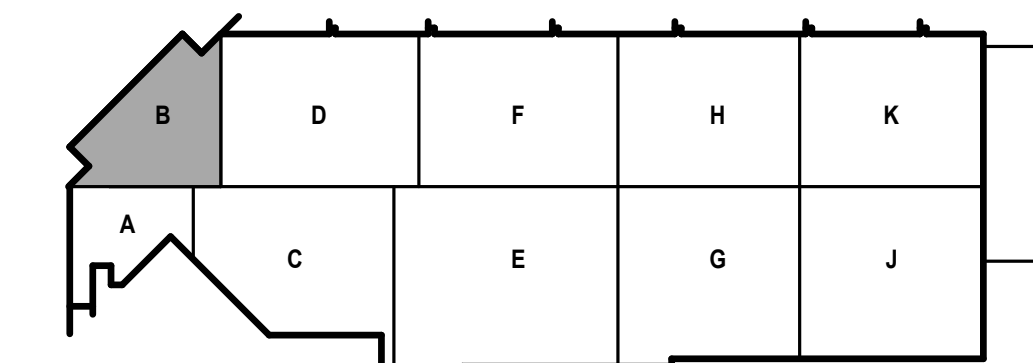
1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.

**KEYED NOTES**

9.401 RELOCATED ANNUNCIATOR PANEL - MOUNT 48" ABOVE FINISHED FLOOR.



**1** FIRST FLOOR FIRE ALARM PLAN - AREA B  
1/8" = 1'-0"



KEY PLAN



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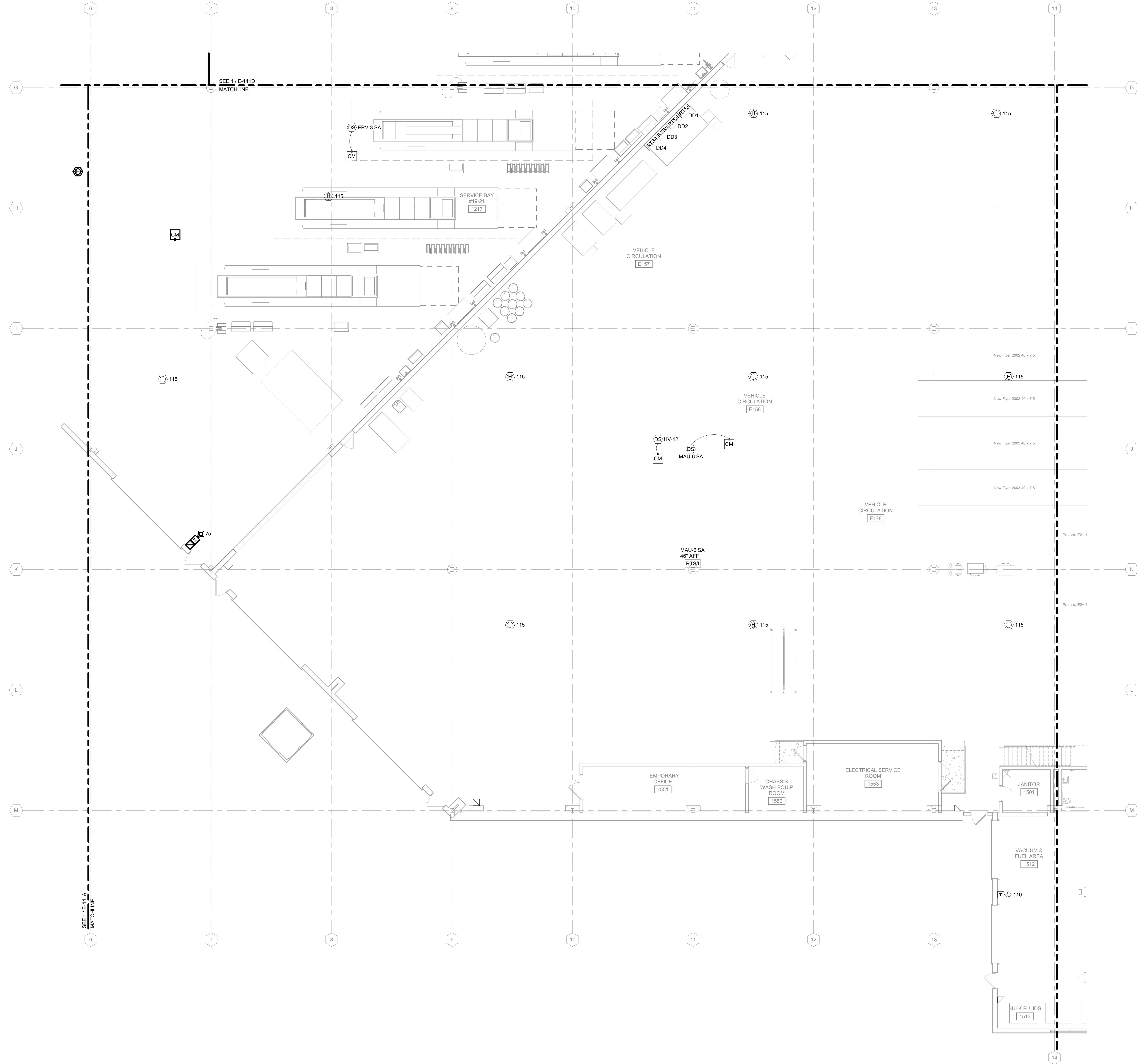
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SHEET CONTENTS  
FIRST FLOOR FIRE  
ALARM PLAN - AREA  
B

SHEET NO.:

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# FIRST FLOOR FIRE ALARM PLAN - AREA C



**FIRE ALARM GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.

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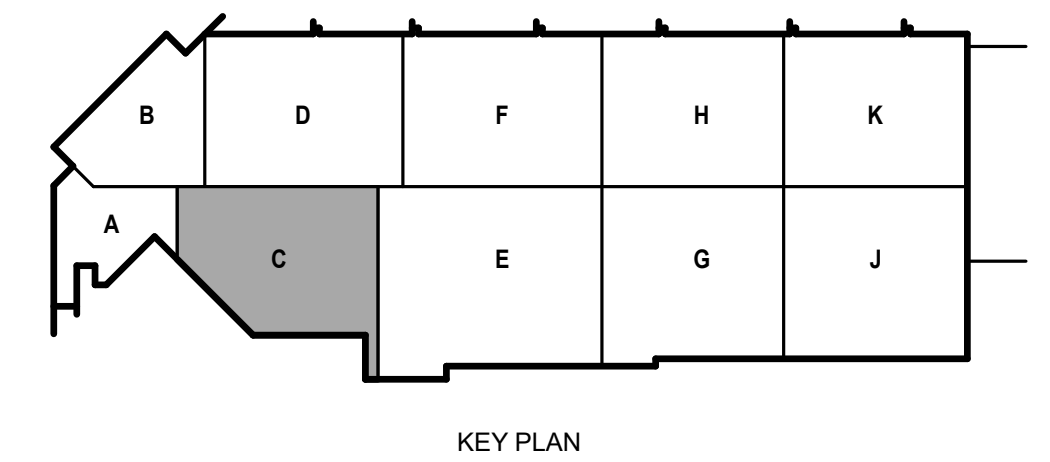
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 SHEET CONTENTS  
 FIRST FLOOR FIRE ALARM PLAN - AREA C

SHEET NO.:

**E-141C**



**FIRE ALARM GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
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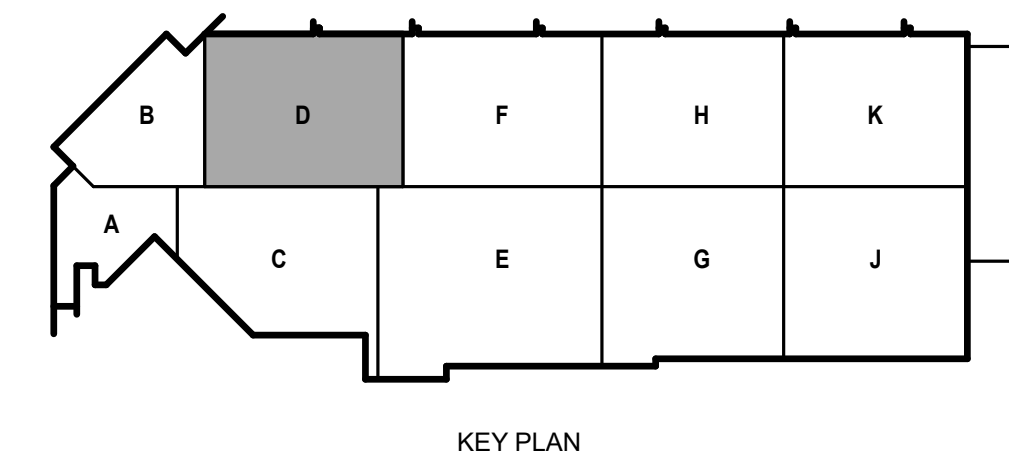
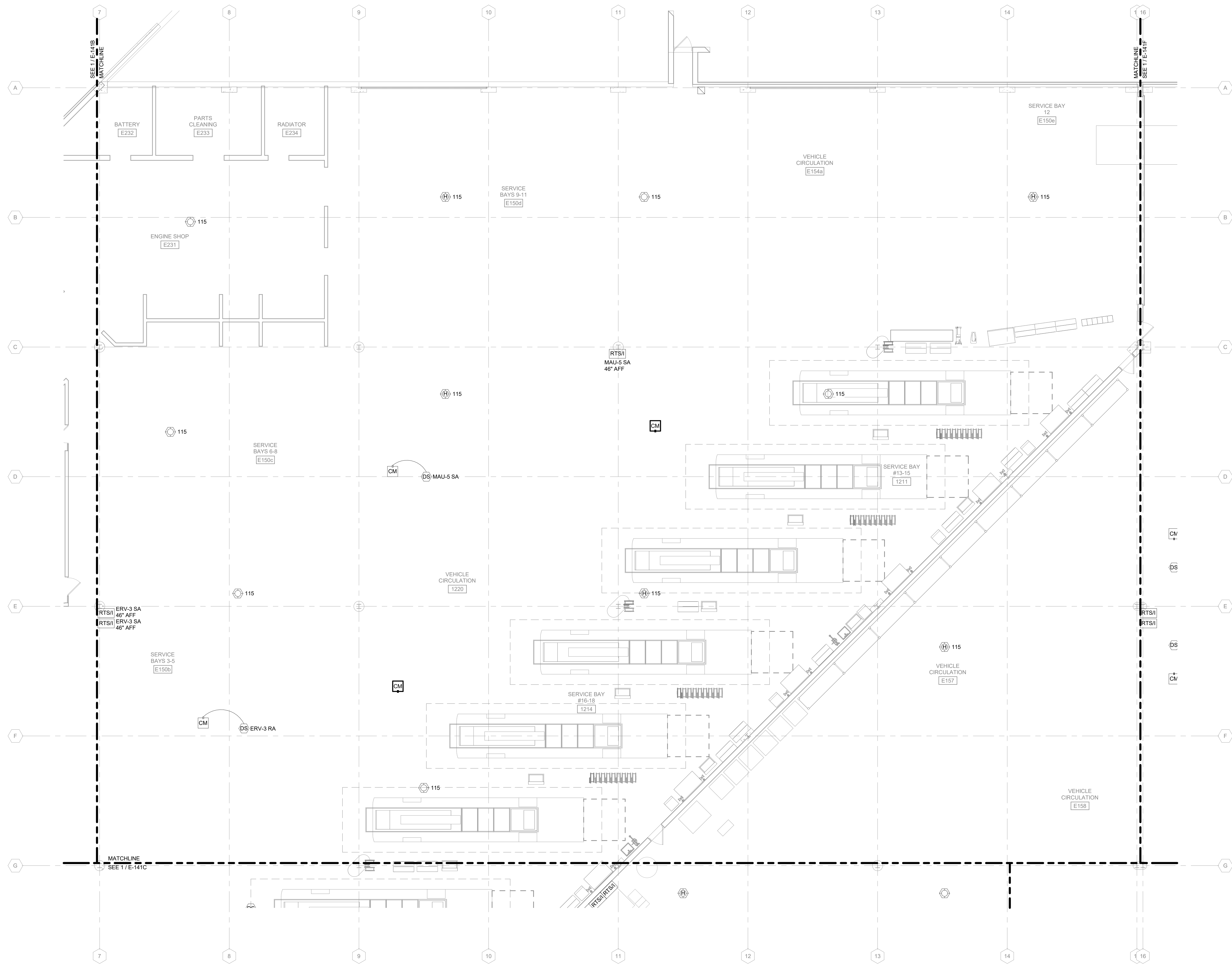
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SHEET CONTENTS  
FIRST FLOOR FIRE ALARM PLAN - AREA D

SHEET NO.:



**1** FIRST FLOOR FIRE ALARM PLAN - AREA D  
1/8" = 1'-0"

4/7/2021 8:30:48 AM C:\Revel\Local\1908996.03-E-R20-Arno\_Kyle\_Schammer\14

**FIRE ALARM GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. ALTERNATE NO. 1: SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM, LOCKER ROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

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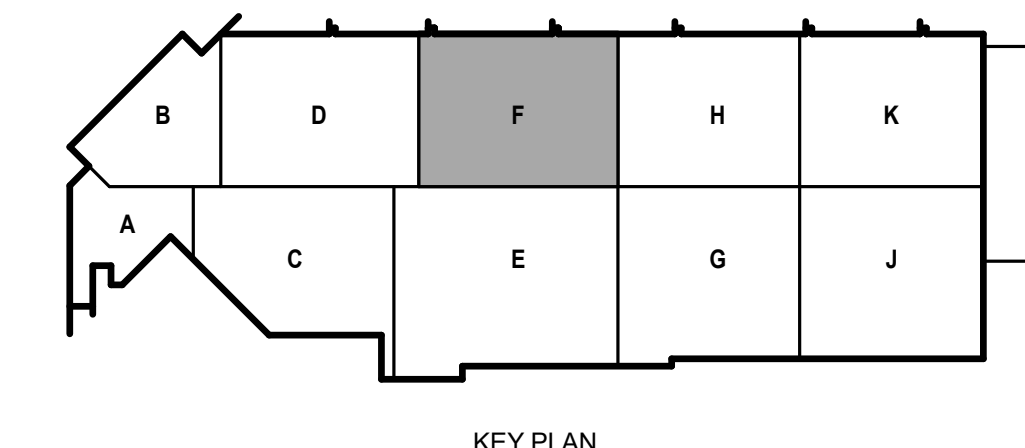
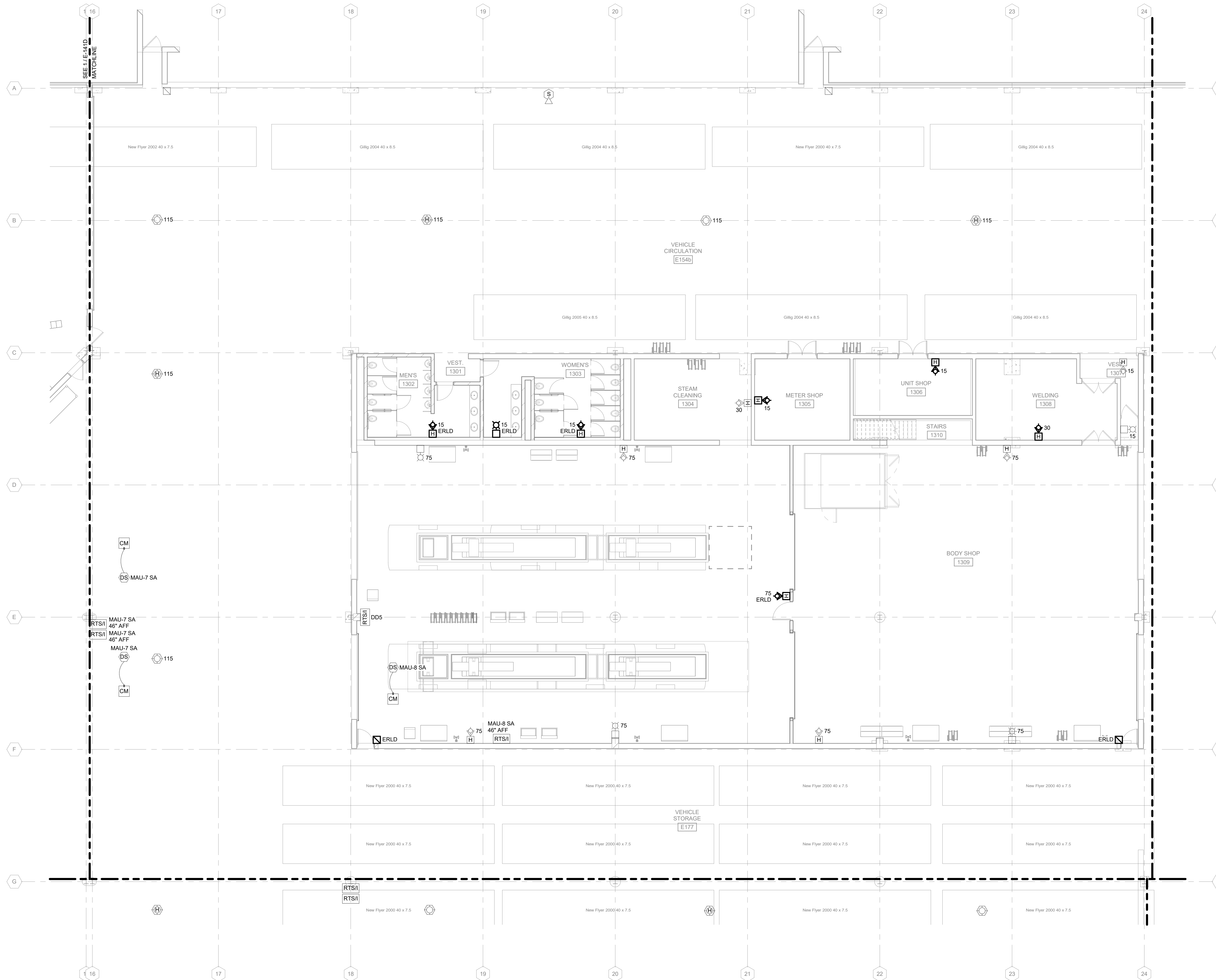
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SHEET CONTENTS  
FIRST FLOOR FIRE  
ALARM PLAN - AREA  
F

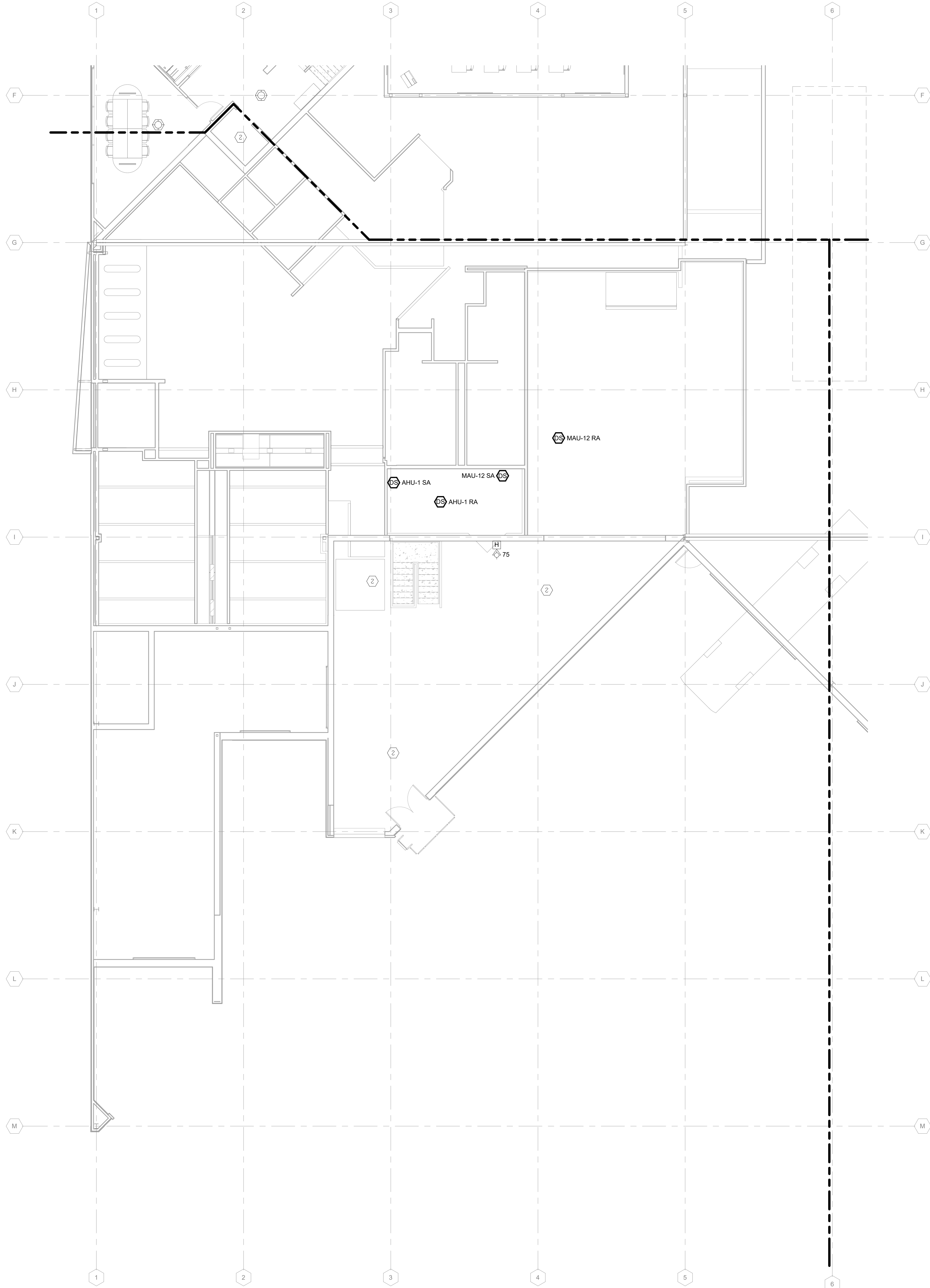
SHEET NO.:

**E-141F**



**1** FIRST FLOOR FIRE ALARM PLAN - AREA F  
1/8" = 1'-0"

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**FIRE ALARM GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.

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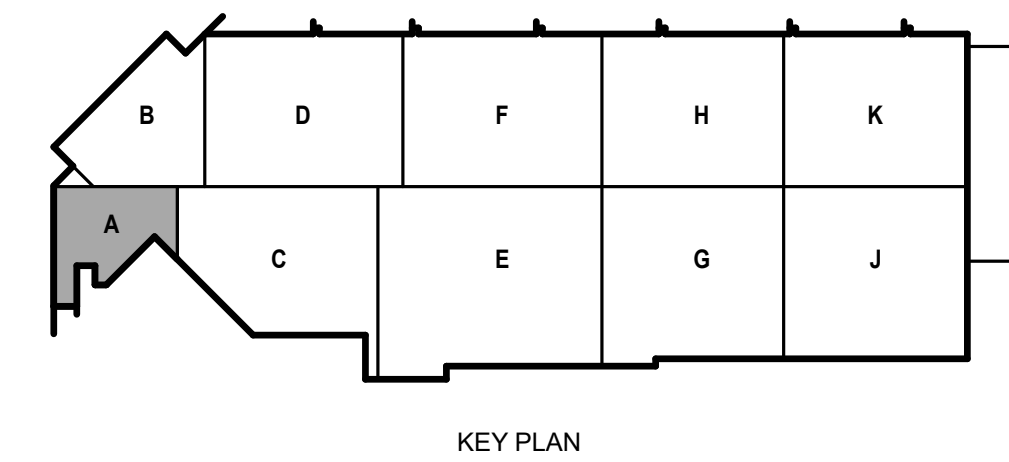
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M&H NO.: 4503500-190896.03  
DATE: APRIL 8, 2021  
DESIGNED BY: MAM  
DRAWN BY: KAS  
CHECKED BY: SDL  
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SHEET CONTENTS  
SECOND FLOOR  
FIRE ALARM PLAN -  
AREA A

SHEET NO.:

**E-142A**

**1 SECOND FLOOR FIRE ALARM PLAN - AREA A**  
1/8" = 1'-0"



4/7/2021 8:30:58 AM C:\Revit\Local\190896.03-E-R20-Arno\_Kyle\_Schammer.rvt

**FIRE ALARM GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
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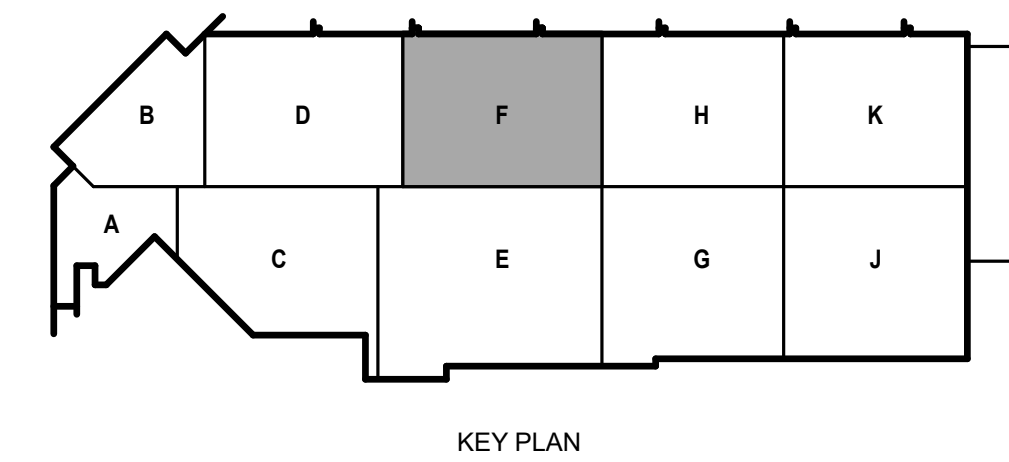
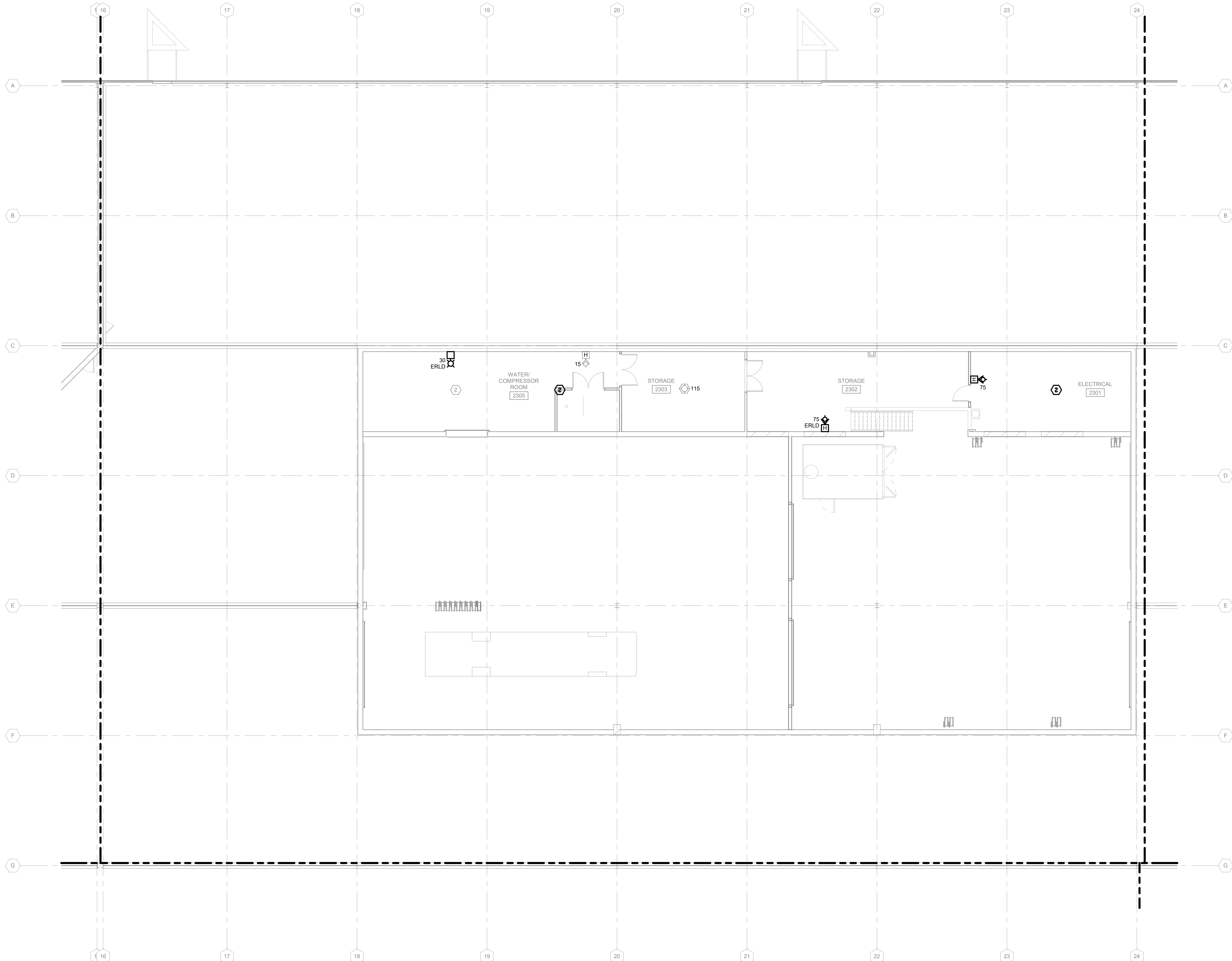
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SHEET CONTENTS  
SECOND FLOOR  
FIRE ALARM PLAN -  
AREA F

SHEET NO.:

**E-142F**



**1 SECOND FLOOR FIRE ALARM PLAN - AREA F**  
1/8" = 1'-0"

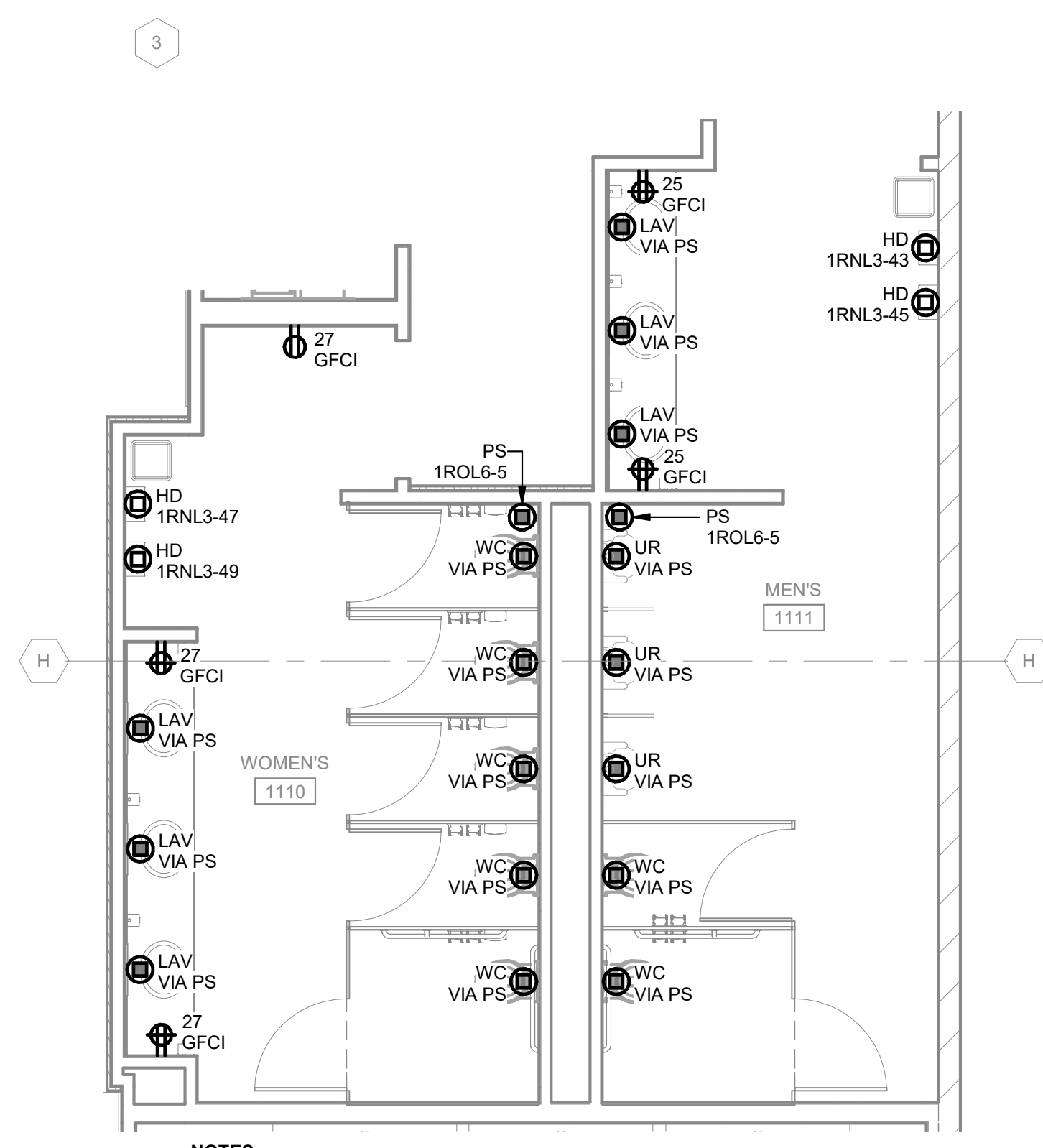
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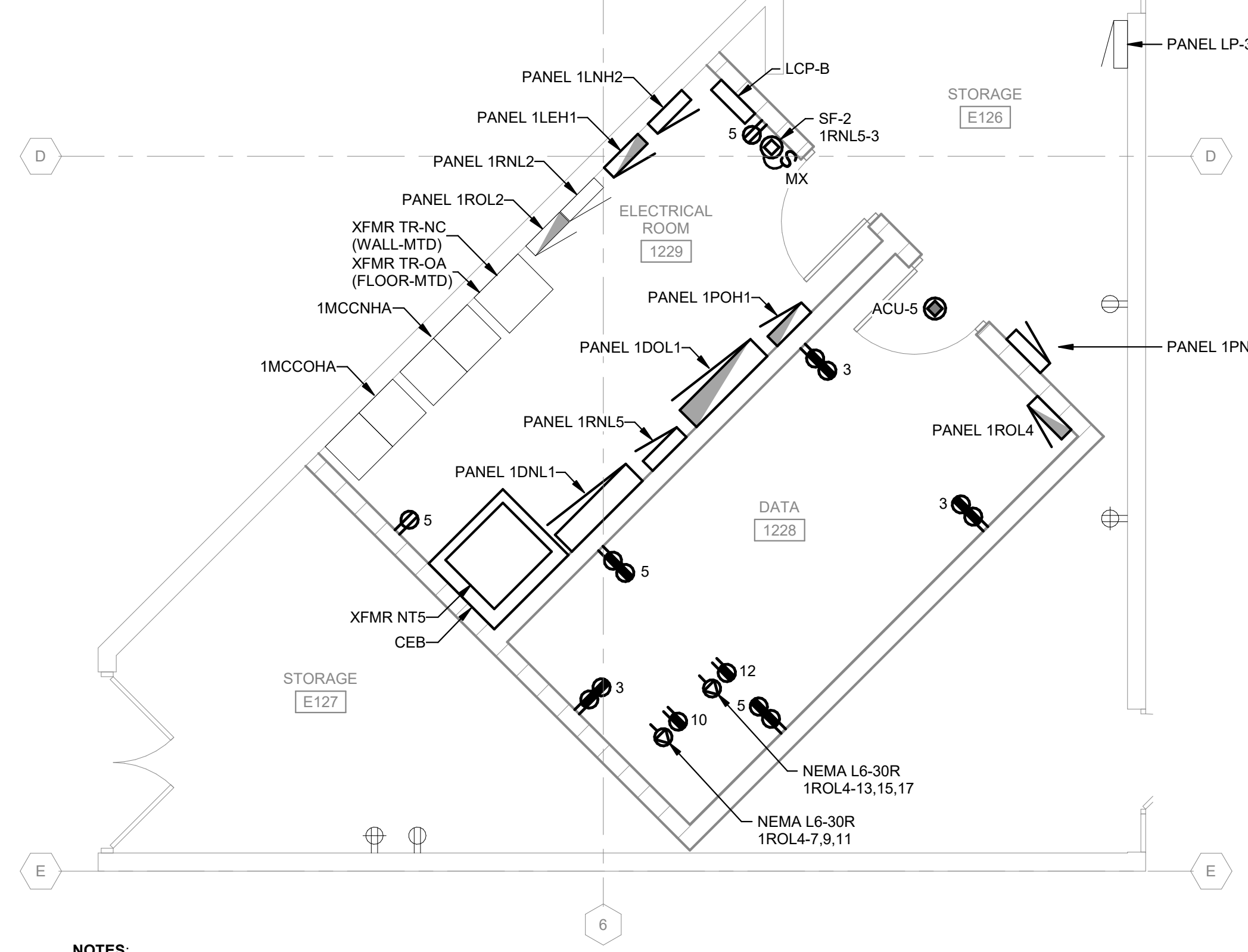


**KEYED NOTES**

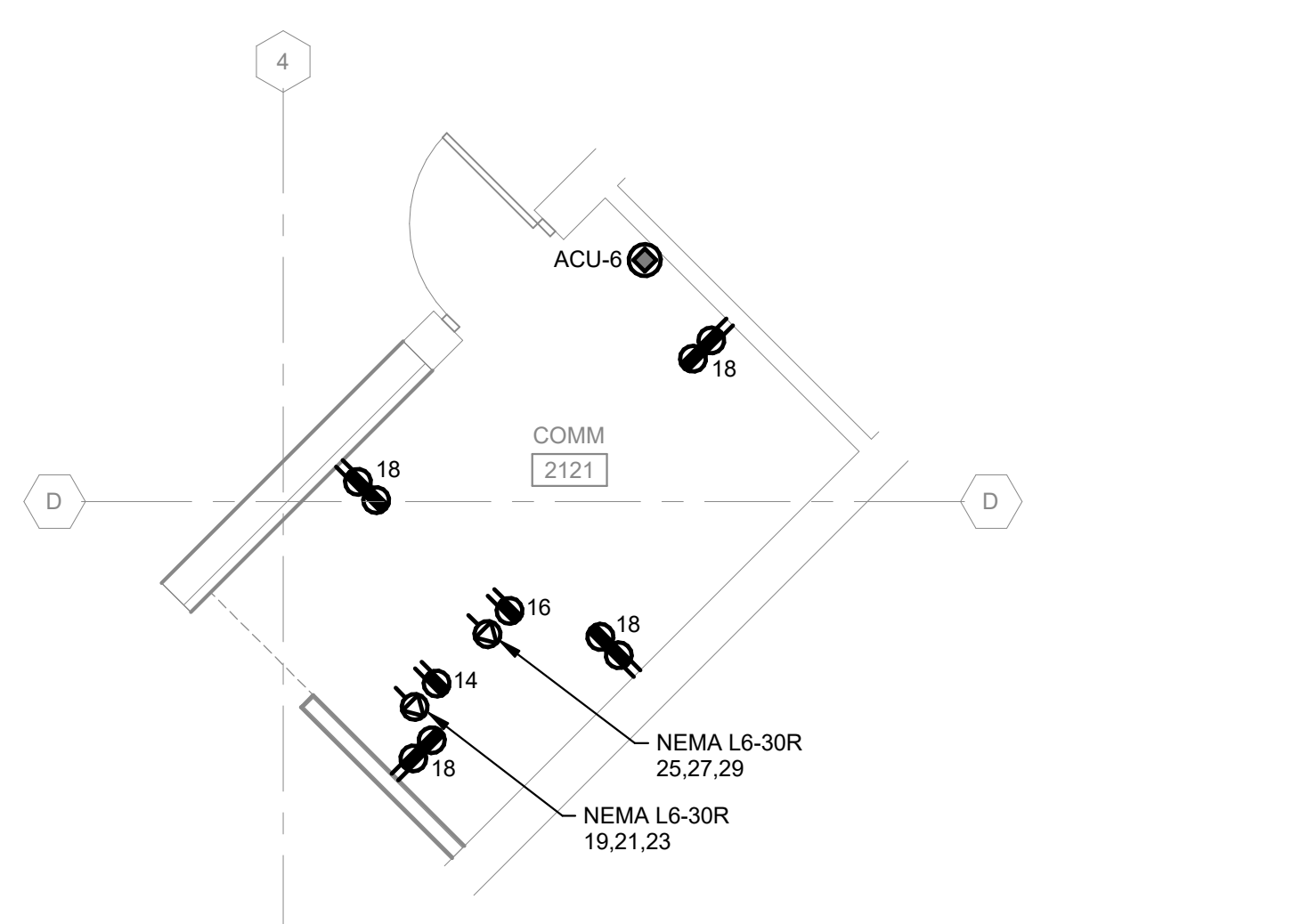
9.310 PROVIDED BY MC INSTALLED AND WIRED BY EC



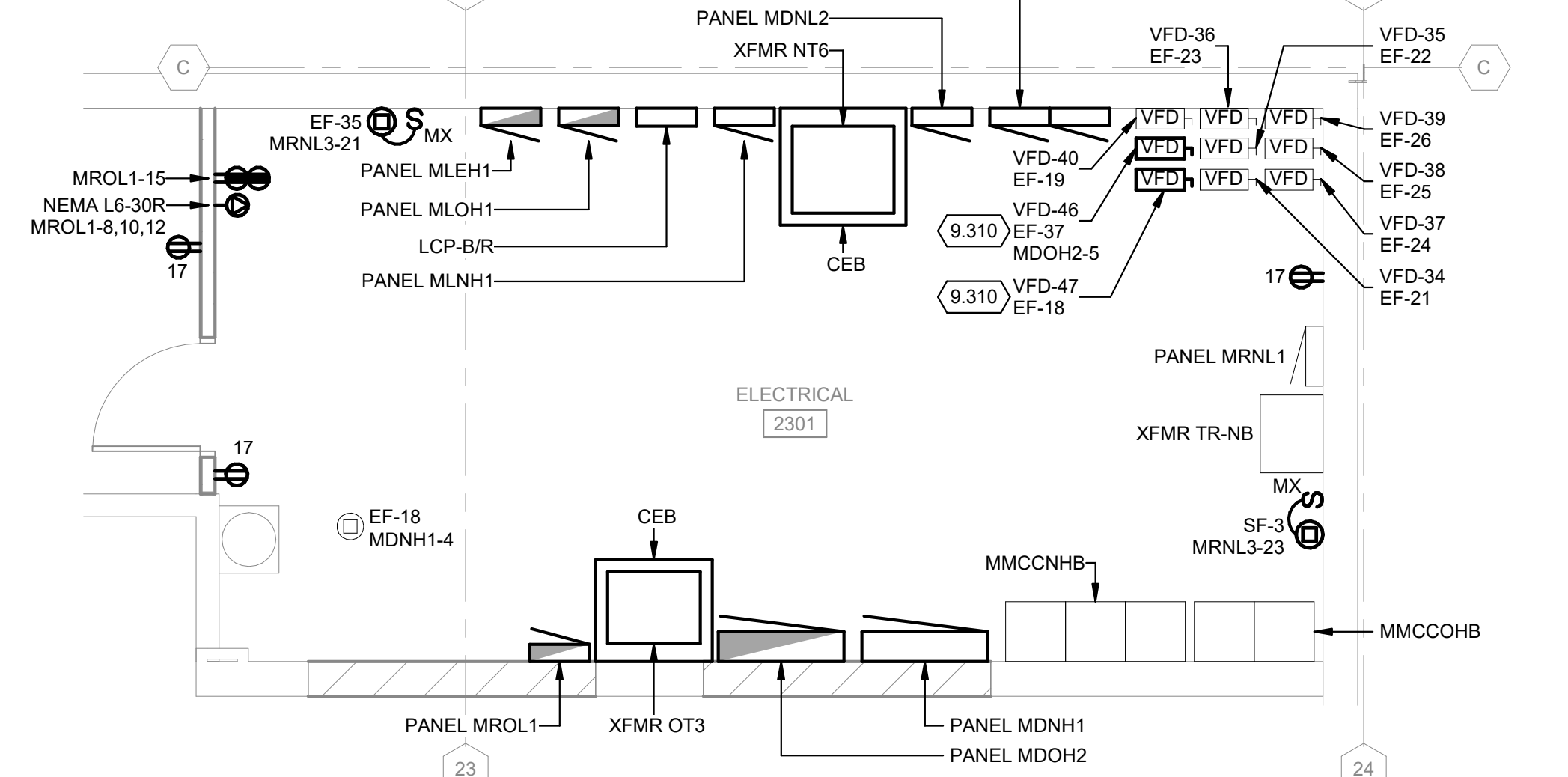
**4 ENLARGED RESTROOMS - AREA A**  
1/4" = 1'-0"



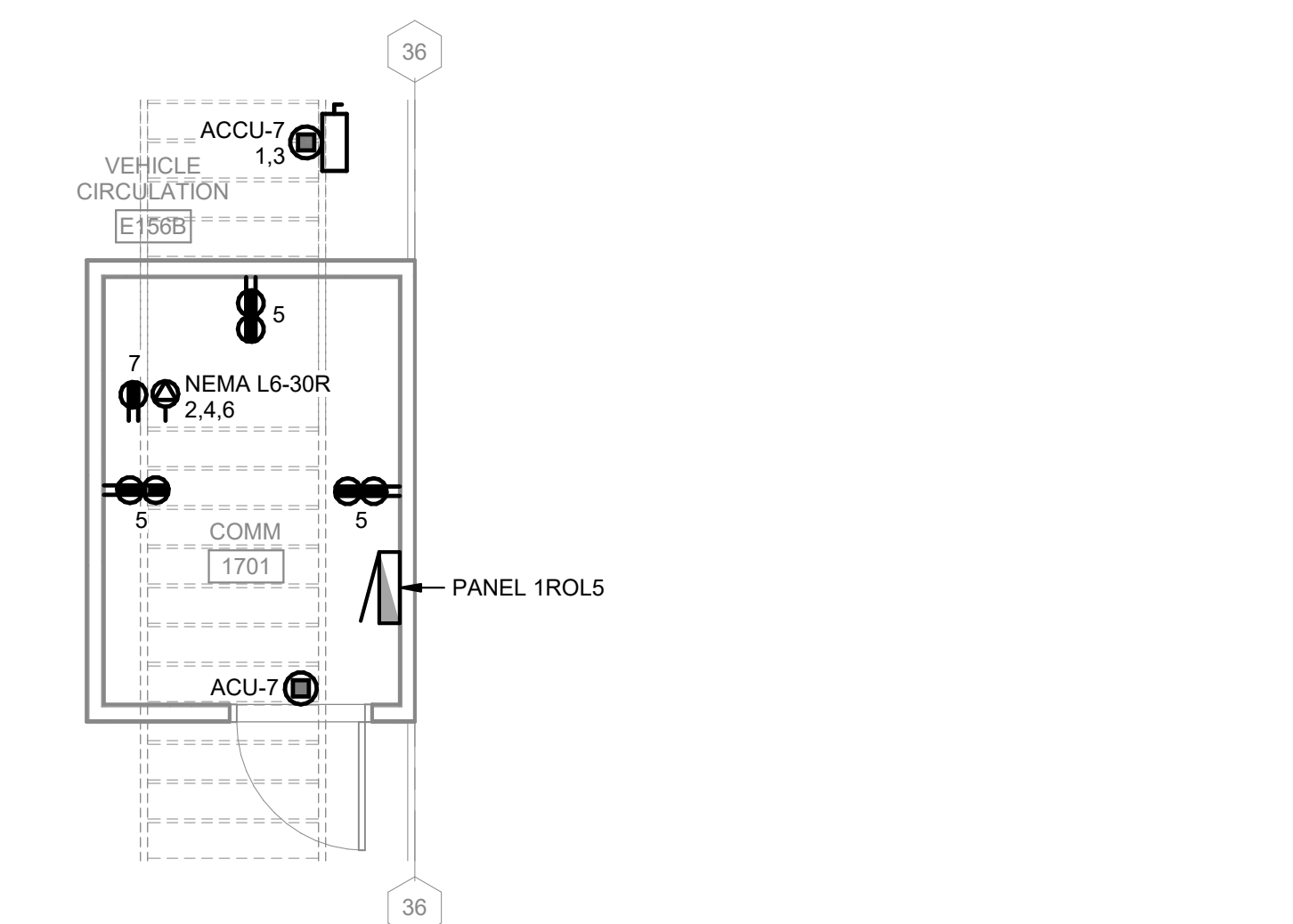
**1 ENLARGED ELECTRICAL 1229**  
1/4" = 1'-0"



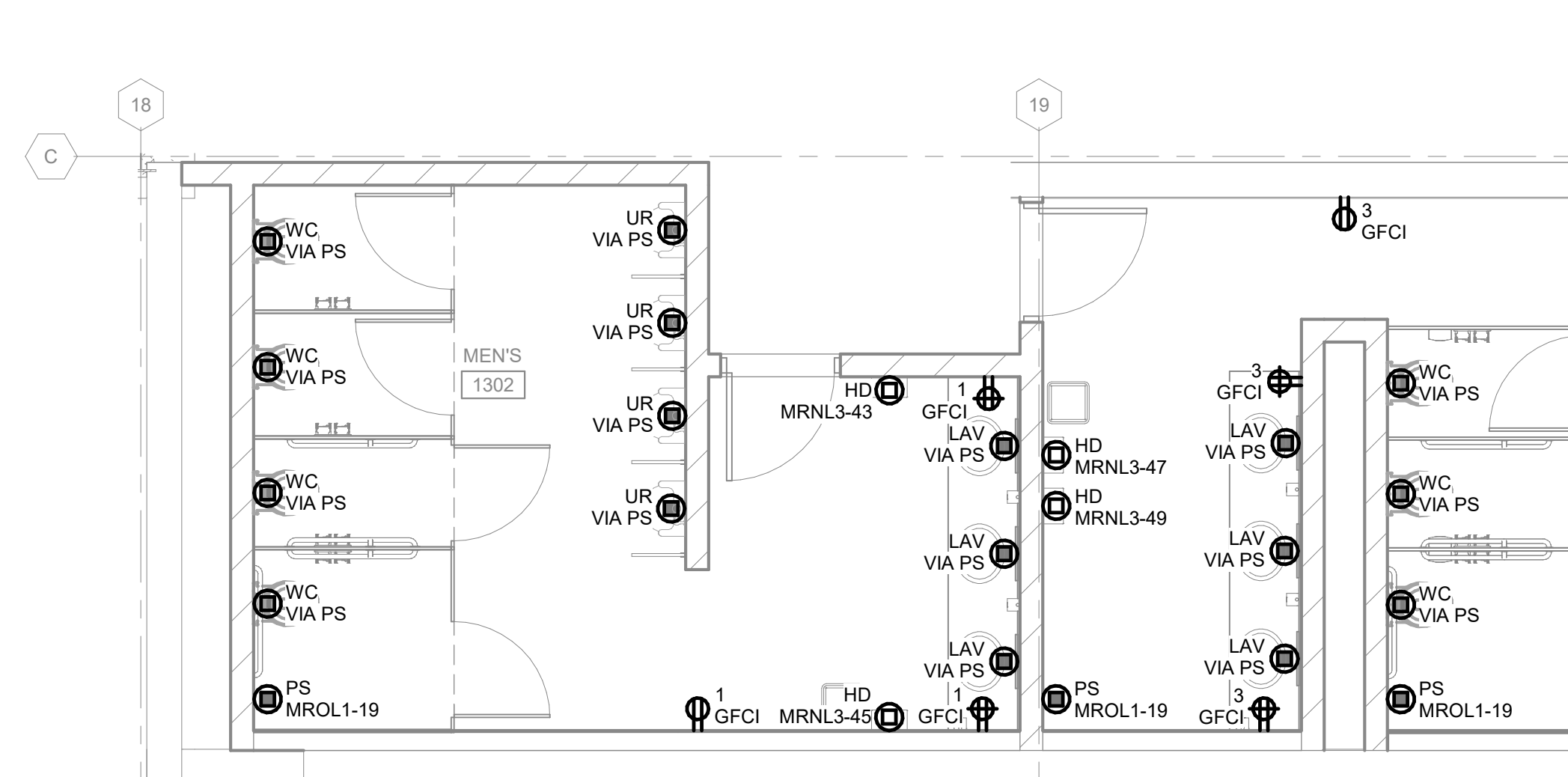
**5 ENLARGED COMM 2121**  
1/4" = 1'-0"



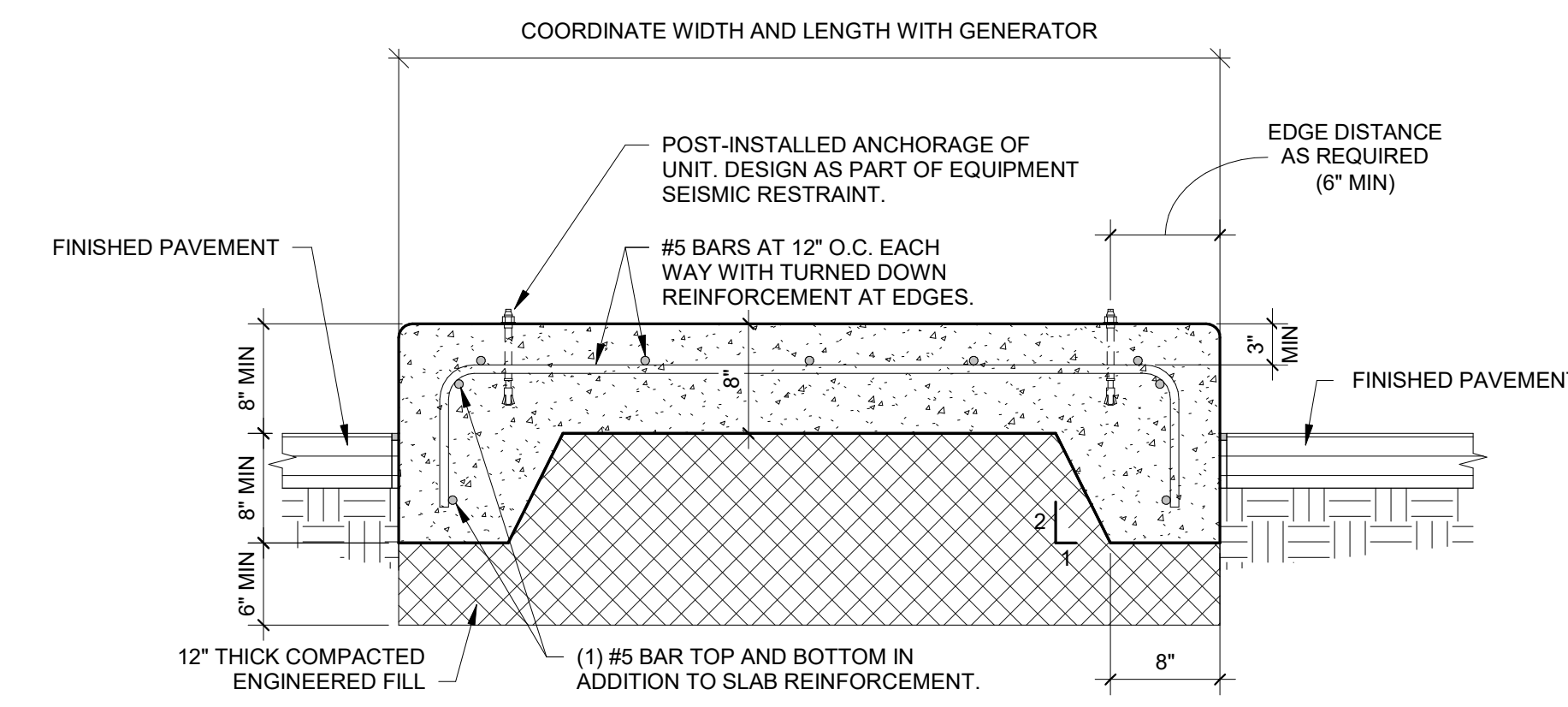
**2 ENLARGED ELECTRICAL 2301**  
1/4" = 1'-0"



**6 ENLARGED COMM 1701**  
1/4" = 1'-0"



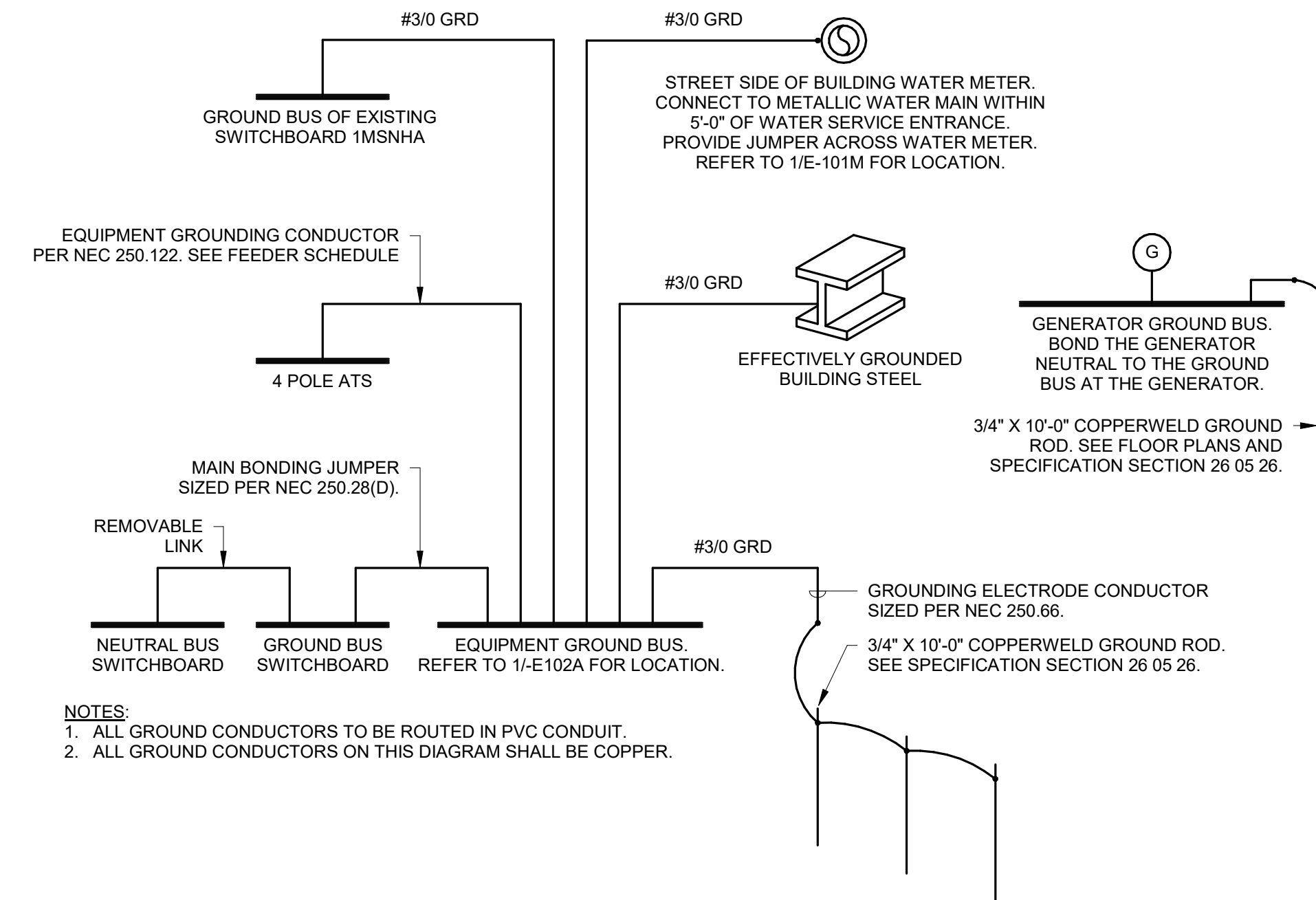
**3 ENLARGED RESTROOMS - AREA F**  
1/4" = 1'-0"



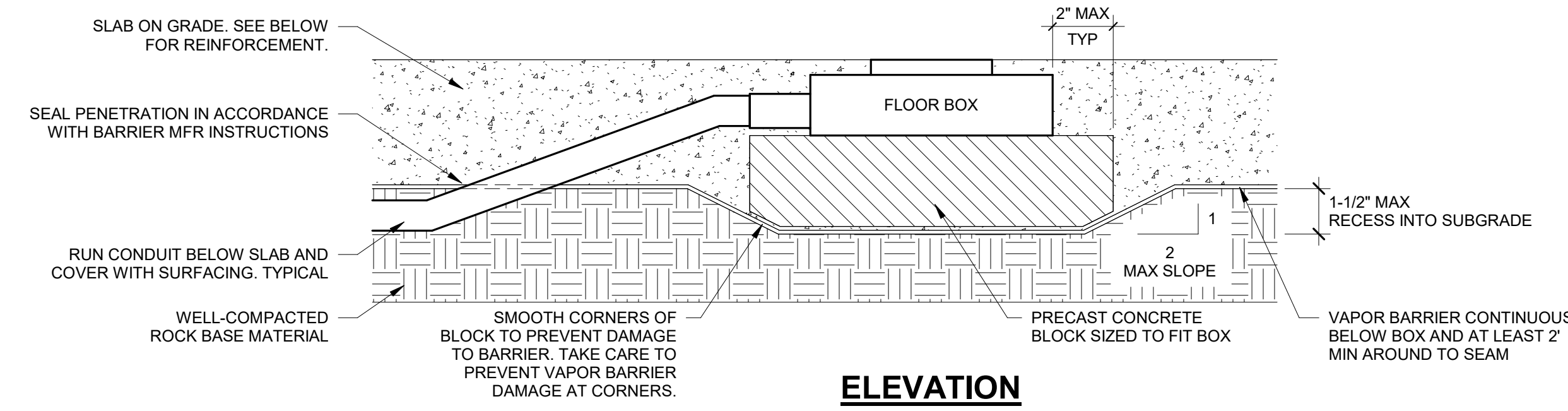
**NOTES:**

- TOP OF CONCRETE PAD MUST BE APPROXIMATELY 8" ABOVE FINISHED PAVEMENT WITH GRADUAL SLOPE FOR DRAINAGE. EDGES ABOVE GRADE MUST HAVE 1/2" CHAMFER. PAD MUST BE OF ADEQUATE SIZE TO PROJECT AT LEAST 8" BEYOND THE EQUIPMENT ON ALL SIDES.
- STUB UP CONDUITS, WITH BUSHINGS, 2" INTO ELECTRICAL OPENINGS IN THE CONCRETE PAD. COORDINATE DIMENSIONS OF CABLE WELLS WITH GENERATOR CABLE ENTRANCE AREAS.

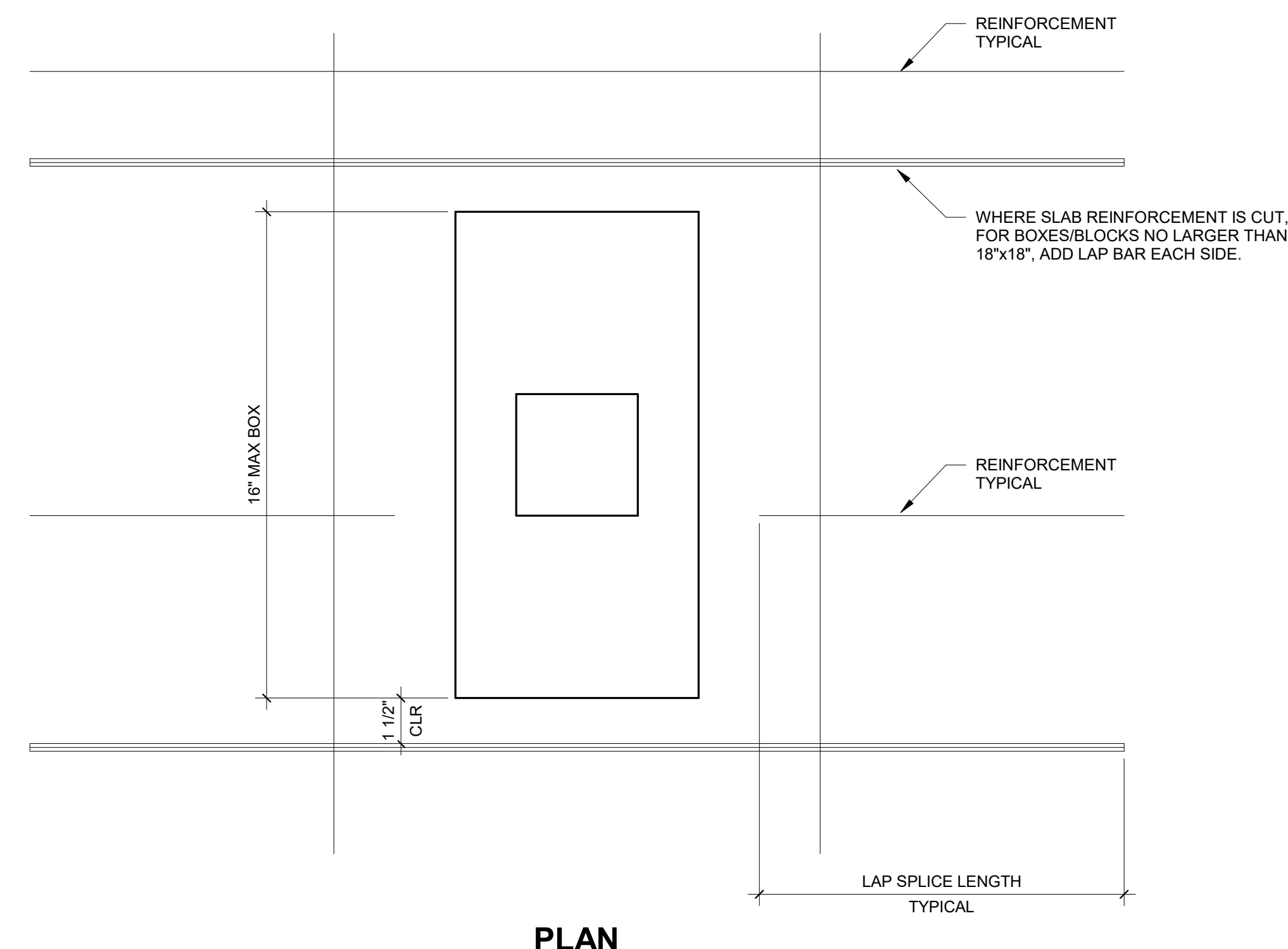
**5 GENERATOR PAD DETAIL**  
NO SCALE



**6 GROUNDING SYSTEM DETAIL**  
NO SCALE

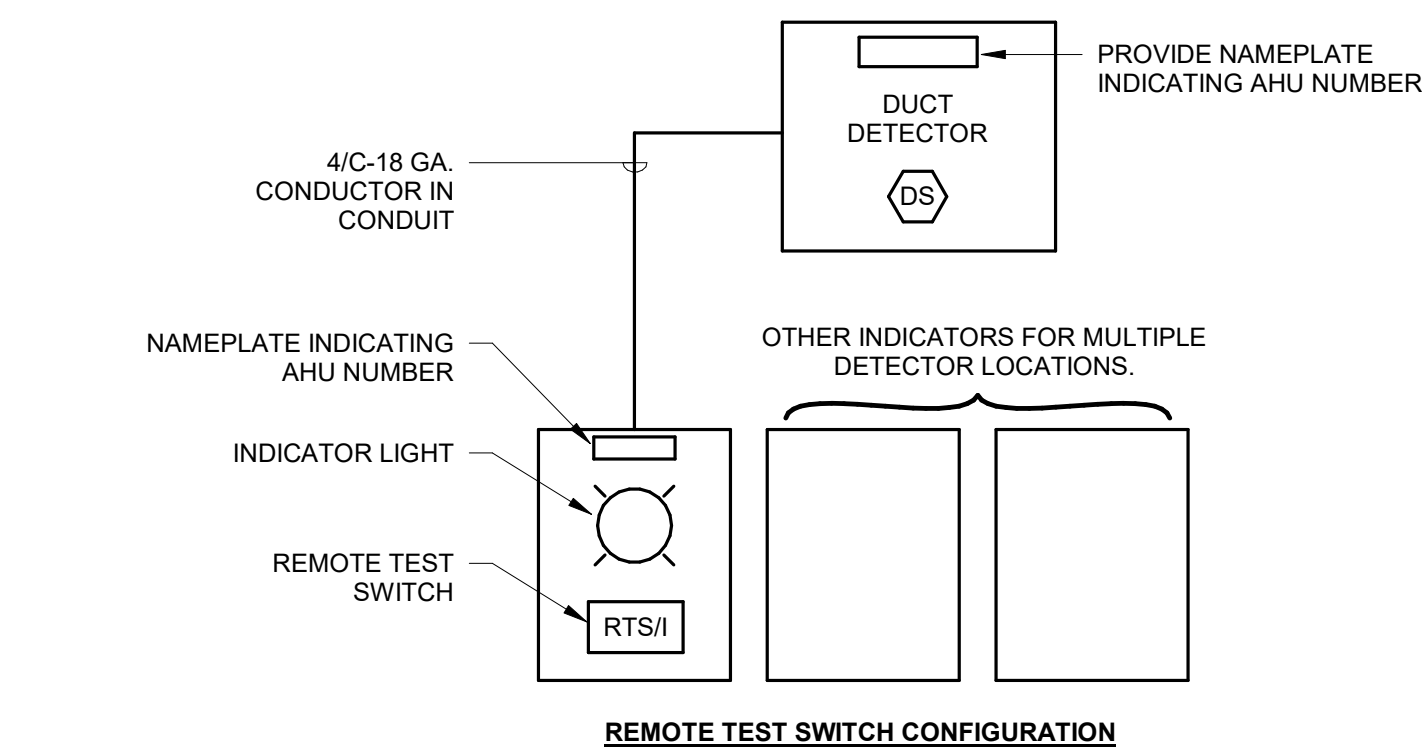


**ELEVATION**

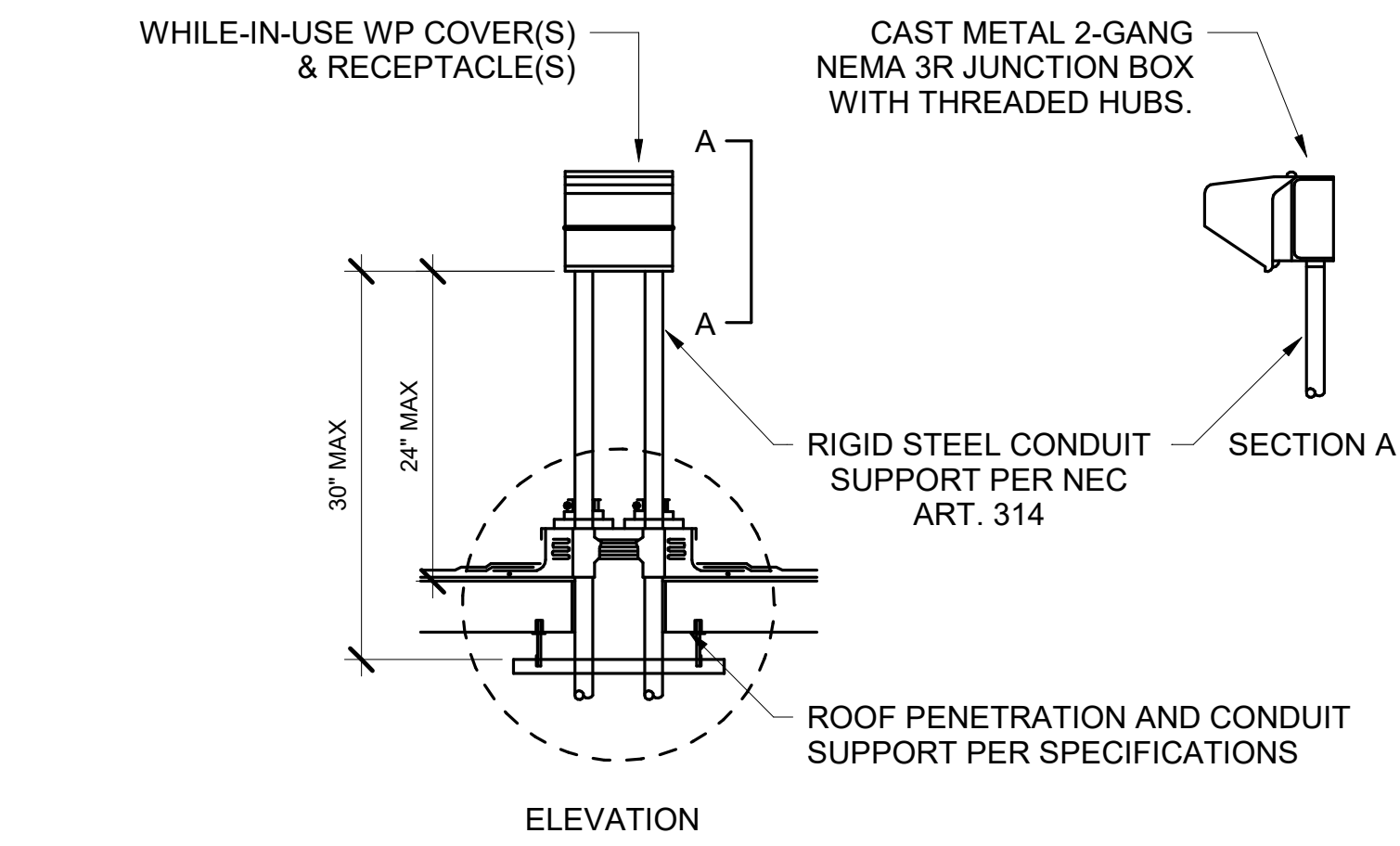


**PLAN**

**7 FLOOR BOX AT SLAB-ON-GRADE**  
NO SCALE

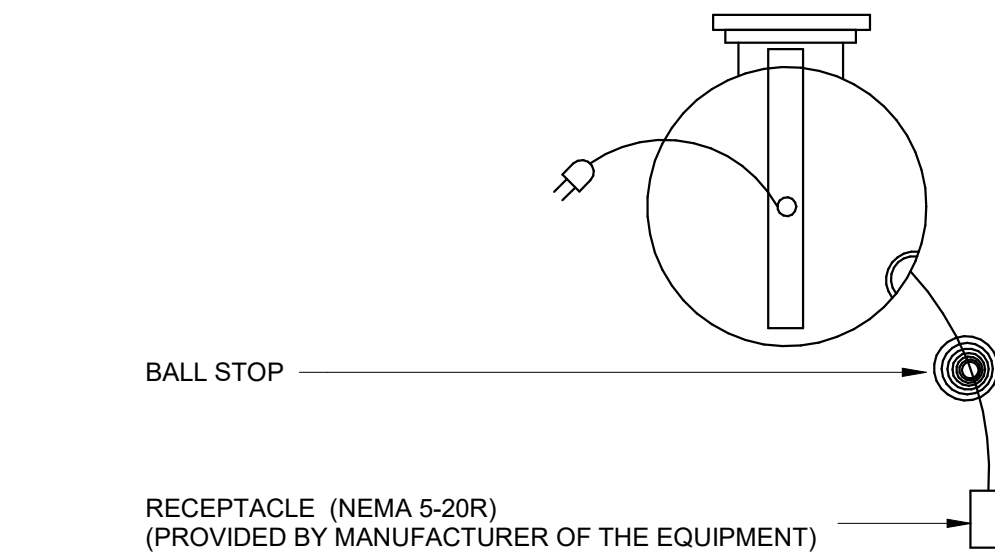


**1 AIR HANDLING SHUTDOWN SCHEMATIC**  
NO SCALE

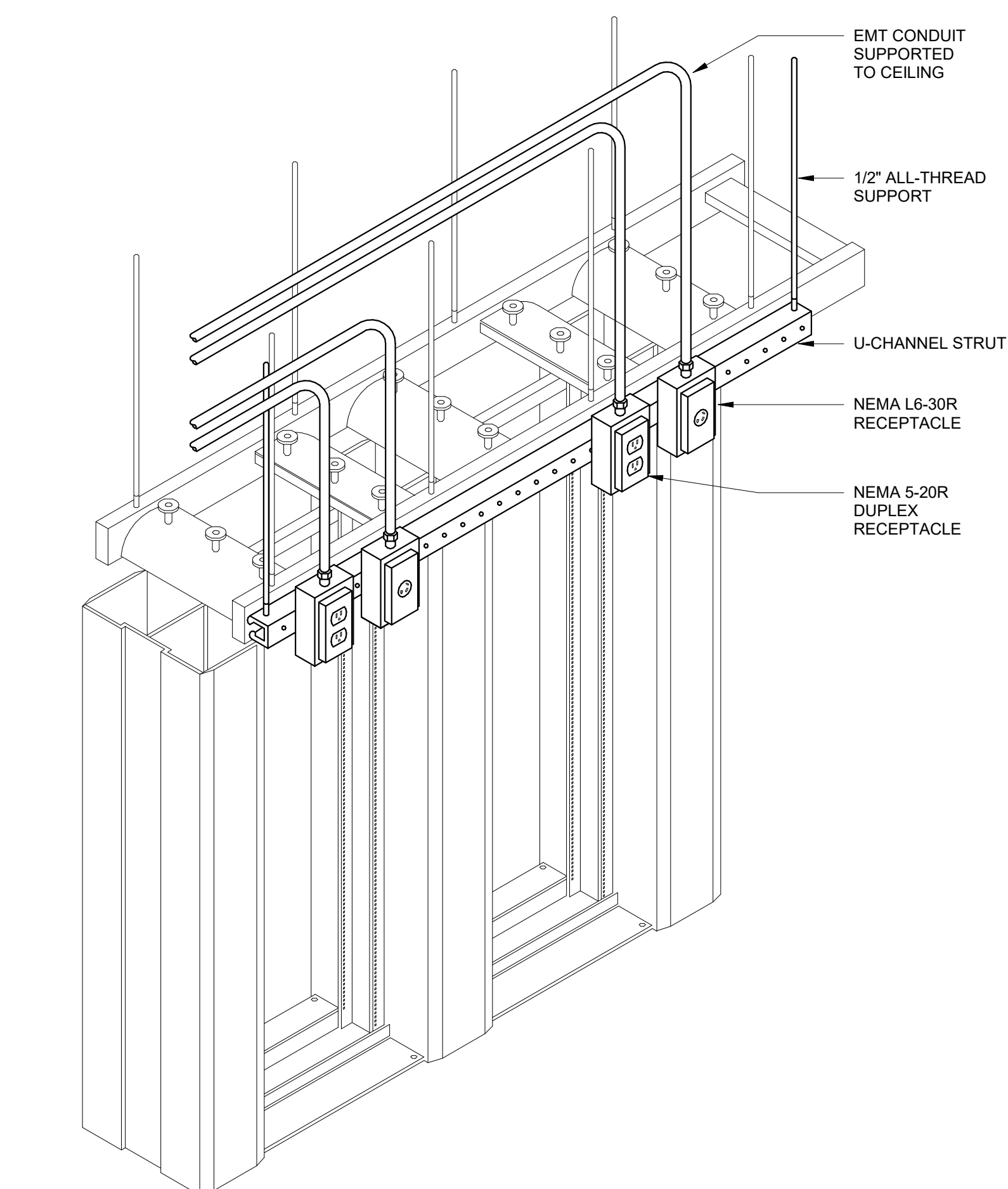


**2 ROOF MOUNTED RECEPTACLE DETAIL**  
NO SCALE

CONTINUOUS (360 DEGREE) SWIVEL GROUNDED RETRACTABLE POWER CORD W/ SINGLE RECEPTACLE ON END FURNISHED W/ 50 FT OF 12-3 SJLOW CORD (2 CONDUCTORS PLUS GROUND) ENCLOSED STEEL CONSTRUCTION, UL LISTED, LOCKING RATCHET TO HOLD CORD AT DESIRED LENGTH. 6'-0" FEEDER CORD WITH MOLDED 5-20P MANUFACTURER KH INDUSTRIES MODEL #RTAG3LW-WC520-J12X OR APPROVED EQUAL.



**3 RETRACTABLE RECEPTACLE DETAIL - CRR**  
NO SCALE



**4 RACK RECEPTACLE DETAIL**  
NO SCALE

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LUMINAIRE SCHEDULE

**NOTE:** SEE SPECIFICATION FOR ADDITIONAL INFORMATION REGARDING LUMINAIRE AND INSTALLATION REQUIREMENTS. PROVIDE OPTIONS AND ACCESSORIES REFERENCED BY THE COLUMN TITLED "OPTIONS/ACCESSORIES". MANUFACTURERS LISTED ACCEPTABLE SHALL MEET ALL REQUIREMENTS AND FEATURES INDICATED. ACCEPTABLE MANUFACTURERS MUST MEET THE PHOTOMETRIC PERFORMANCE OF THE LISTED UNIT.

**ABBREVIATIONS:** GWB = GYPSUM WALL BOARD P = PENDANT R = RECESSED V = VARIES  
ES = EXPOSED STRUCTURE PLAS = PLASTER S = SURFACE W = WALL MOUNTED  
LG = LAY-IN GRID PL = POLE MOUNTED UNV = UNIVERSAL VOLTAGE

DES.	MANUFACTURER	CATALOG SERIES	DESCRIPTION	LAMP DATA	VOLTAGE	BALLAST DRIVER	MOUNT	CEILING TYPE	FIXTURE DEPTH	LED SYSTEM INPUT WATTAGE	LED DELIVERED LUMENS	OPTIONS / ACCESSORIES	ACCEPTABLE MANUFACTURERS	KEYED NOTE
A1	LITHONIA	EPANL SERIES	2' x 2' LED EDGE-LIT FLAT PANEL	4000K LED	277V	D	R	LG	2"	29.2	3333		COLUMBIA CFP IKIO ASTRAL EDGE	
D1	GOTHAM	EVO4 SERIES	4" LED ROUND RECESSED DOWNLIGHT WITH WHITE REFLECTOR AND FLANGE, MEDIUM DISTRIBUTION, AND SEMI-SPECULAR FINISH	4000K LED	277V	D	R	LG	6 1/2"	13.7W	1527		PORTFOLIO, LITEISTRY USAI	
DK1	HUBBELL	DOKSTAR SERIES	LED DOCK LIGHT, WITH 32 DEGREE FLOOD OPTICS AND POLYCARBONATE LENS, IN-LINE ROCKER SWITCH, 40" DOUBLE STRUT SWING ARM WITH STANDARD 6' CORD AND PLUG	5000K LED	120V	D	W	-	-	21W	1506		PHOENIX	
J1	CONTECH	CTL SERIES	12' LED TRACK LIGHT, WHITE, WITH SOLITE TEMPERED GLASS LENSES. ORDER WITH 12' CONTECH LT WHITE TRACK WITH OUTLET BOX COVER PLATE L-A-4 AND AIRCRAFT CABLE	4000K LED	120V	D	R	LG	-	19W	2213		JUNO, BRUCK TIMES SQUARE, LSI	
K21	CREE	LS SERIES	4' LED WALL BRACKET WITH LOW GLARE ACRYLIC LENS AND WHITE FINISH.	4000K LED	277V	D	W	-	3"	40W	4250		METALUX, COLUMBIA LITHONIA	
L1	AXIS	BEAM4 LED SERIES	4" LED NARROW RECESSED LINEAR FIXTURE WITH WHITE POWDER COAT EXTRUDED ALUMINUM HOUSING AND FORSTED FLUSH LENS, 90 CRI	4000K LED	277V	D	R	LG	3-7/8"	5 W/FT	400 LM/FT		PINNACLE, LUMENWERX CORONET, FINELITE	
L2	AXIS	BEAM4 LED SERIES	4" LED RECESSED PERIMETER FIXTURE WITH EXTRUDED ALUMINUM HOUSING, 2" REGRESS, TELESCOPIC END. SEE PLANS FOR EXACT LENGTH REQUIRED.	4000K LED	277V	D	R	LG	6"	5 W/FT	400 LM/FT		PINNACLE, LUMENWERX CORONET, FINELITE	
L3	OMNILIGHT	CONTINUUM SERIES	FIELD CUTTABLE LED TAPELIGHT MOUNTED IN ALUMINUM CHANNEL, DIMMABLE, 90 CRI	3000K LED	24V	D	S	GWB	0.5"	1.47 W/FT	140 LM/FT		ACOLYTE, OPTIC ARTS MODA, LED LINEAR	
L4	AXIS	BEAM4 LED SERIES	4" LED RECESSED PERIMETER FIXTURE WITH EXTRUDED ALUMINUM HOUSING, 2" REGRESS, TELESCOPIC END. SEE PLANS FOR EXACT LENGTH REQUIRED.	4000K LED	277V	D	R	GWB	6"	5 W/FT	400 LM/FT		PINNACLE, LUMENWERX CORONET, FINELITE	
N2	LITHONIA	MSL SERIES	4' LED SURFACE INDUSTRIAL FIXTURE WITH STEEL HOUSING AND BAKED WHITE ENAMEL FINISH	4000K LED	277V	D	S	-	3-1/4"	40W	3636		METALUX, COLUMBIA DAYBRITE	
N3	LITHONIA	MSL SERIES	4' LED CHAIN-HUNG PENDANT INDUSTRIAL FIXTURE WITH STEEL HOUSING AND BAKED WHITE ENAMEL FINISH	4000K LED	277V	D	P	-	3-1/4"	40W	3636		METALUX, COLUMBIA DAYBRITE	
N5	LITHONIA	MSL SERIES	8' LED SURFACE INDUSTRIAL FIXTURE WITH STEEL HOUSING AND BAKED WHITE ENAMEL FINISH	4000K LED	277V	D	S	-	3-1/4"	58W	7273		METALUX, COLUMBIA DAYBRITE	
N6	BARRON	VPA SERIES	4' LED SURFACE LINEAR VAPORTIGHT WITH POLYCARBONATE HOUSING FOR CORROSIVE ENVIRONMENT	4000K LED	277V	D	S	-	3.6"	40W	5200		METALUX, COLUMBIA DAYBRITE	
N7	LITHONIA	MSL SERIES	8' LED SURFACE INDUSTRIAL FIXTURE WITH STEEL HOUSING AND BAKED WHITE ENAMEL FINISH	4000K LED	120V	D	S	-	3-1/4"	58W	7273		METALUX, COLUMBIA DAYBRITE	
N11	LITHONIA	FEM SERIES	4' LED PENDANT INDUSTRIAL VAPOR-TIGHT FIXTURE WITH FIBERGLASS HOUSING	4000K LED	277V	D	P	-	4-1/4"	94.3W	15160		LITHONIA METALUX, COLUMBIA	
OA1	GOTHAM	EVO6 SERIES	6" LED ROUND RECESSED DOWNLIGHT, WET LOCATION RATED, FLUSH LENSED WHITE PAINTED TRIM WITH SMOOTH CLEAR LENS	4000K LED	277V	D	R	-	7 9/16"	10W	857		PORTFOLIO, LITEISTRY USAI	
OA2	LITHONIA	D-SERIES SIZE 1	LED WALL MOUNTED FIXTURE WITH DIE CAST ALUMINUM HOUSING, ACRYLIC LENS, DARK SKY FRIENDLY CERTIFIED, IP65 RATED, FORWARD THROW LIGHT DISTRIBUTION AND DARK BRONZE FINISH.	4000K LED	277V	D	W	-	10"	13W	1515		MCGRAW EDISON, HUBBELL PHILIPS 122 SCONCE SERIES	
P1	DESIGNPLAN	PLANK SERIES	4' LED LINEAR PENDANT WITH ALUMINUM BODY AND WOOD SIDE PANELS, AIRCRAFT CABLE MOUNT, 90 CRI	4000K LED	277V	D	P	LG	8"	72W	1848 UP 1866 DOWN		MODERN FORMS PURE EDGE	
P2	G LIGHTING	GLOBO SERIES	24" LED ACRYLIC GLOBE INTERIOR PENDANT	4000K LED	277V	D	P	GWB	24"	42W	4912		SPI AI LATI	
P3	EUREKA	MIKA SERIES	8" LED GLOBE INTERIOR PENDANT WITH CLEAR CABLE AND 0-10V DIMMING, 80 CRI	4000K LED	277V	D	P	LG	8"	9.8W	987		WAC AI LATI	
P4	EUREKA	MIKA SERIES	12" LED GLOBE INTERIOR PENDANT WITH CLEAR CABLE AND 0-10V DIMMING, 80 CRI	4000K LED	277V	D	P	LG	12"	9.8W	1062		WAC AI LATI	
Q1	MODA LIGHT	SUPER NEON SERIES	LED FLEXIBLE COVE LIGHT PROVIDE ALL REQUIRED ACCESSORIES TO CREATE A COMPLETE AND OPERABLE SYSTEM AS SHOWN ON THE PLANS.	4000K LED	24V	D	S	GYP	1-1/8"	5 W/FT	100 LM/FT		LED LINEAR, I-LIGHT ACOLYTE, OPTIC ARTS	
S1	JUNO	SLIMFORM SERIES	LED SURFACE MOUNT DOWNLIGHT, 11" DIAMETER, WIRE DIRECTLY TO J-BOX	4000K LED	277V	D	S	ES	.9"	15W	1300		DMF LIGHTING	
X1	EVENLITE	RAZOR SERIES	SINGLE FACE EXIT LIGHT, DIE CAST ALUMINUM, UNIVERSAL MOUNT, RED LETTERS	LED	277V	-	UNV	-	-	-	-		LITHONIA, SURE-LITE DUAL-LITE	
X2	EVENLITE	RAZOR SERIES	DOUBLE FACE EXIT LIGHT, DIE CAST ALUMINUM, UNIVERSAL MOUNT, RED LETTERS	LED	277V	-	UNV	-	-	-	-		LITHONIA, SURE-LITE DUAL-LITE	

**BALLAST/DRIVER CODE LISTING: (SEE SPECIFICATIONS)**

- D LED DIMMABLE POWER SUPPLY (0-10V).
- E LED DIMMABLE POWER SUPPLY (TRAILING EDGE).
- F LED DIMMABLE POWER SUPPLY 1% DIMMING LUTRON HI LUME OR EQUAL.
- G LED DIMMABLE POWER SUPPLY ADVANCE XITANIUM OR EQUAL.

**GENERAL NOTES:**

1. ONLY BALLAST SERIES IS INDICATED ON THIS SCHEDULE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION. EACH FIXTURE SUBMITTAL SHALL BE PROVIDED WITH FULL BALLAST AND LAMP INFORMATION.
2. EC SHALL VERIFY AND COORDINATE ALL LUMINAIRE TRIMS/FLANGES WITH RESPECTIVE CEILING TYPES SCHEDULED AND/OR SUBMITTED BY THE GC PRIOR TO ORDERING OF THE LUMINAIRES. SCHEDULE INDICATES TRIM TYPES BASED ON THE GENERIC CEILING INFORMATION AVAILABLE AT THE TIME BIDDING DOCUMENTS WERE ISSUED AND DOES NOT REFLECT ACTUAL THICKNESS OF GYPSUM WALL BOARD OR PLASTER CEILING OR EXACT GRID TYPE SPECIFIED BY THE ARCHITECT.

**KEYED NOTES:**

1. PERIMETER FIXTURE SHALL BE WALL TO WALL INSTALLATION. LUMINAIRES SHALL BE PROVIDED WITH SLIDING SLEEVE OR EXACT MEASUREMENTS SHALL BE VERIFIED IN FIELD PRIOR TO RELEASING FIXTURE.
2. VERIFY ALL COMPONENTS REQUIRED TO CREATE A COMPLETE SYSTEMS AS INDICATED ON PLAN INCLUDING POWER SUPPLIES AND CONNECTION ACCESSORIES.







Panelboard: Panel 1LEH1. Bus Ampacity: 100 Volts: 480Y/277 Panel Source: MDEH1. Branch Brkr Space: 42 Poles Phase: 3 Feed-Thru Lugs: None. Main Type: MLO Wires: 4 Sub-Feed Lugs: None. MCB Amps: Delta/Wye Surface Wye Sub-Feed Brkr #1: None. Mounting: Enclosure NEMA 1 Sub-Feed Brkr #2: None. Enclosure: 18 KA. SCCR: No Sub-Feed Brkr #2: None. SE Rated: No. Phil MCA: 8 A.

Panelboard: Panel MLEH1. Bus Ampacity: 100 Volts: 480Y/277 Panel Source: MDEH1. Branch Brkr Space: 42 Poles Phase: 3 Feed-Thru Lugs: None. Main Type: MLO Wires: 4 Sub-Feed Lugs: None. MCB Amps: Delta/Wye Surface Wye Sub-Feed Brkr #1: None. Mounting: Enclosure NEMA 1 Sub-Feed Brkr #2: None. Enclosure: 18 KA. SCCR: No Sub-Feed Brkr #2: None. SE Rated: No. Phil MCA: 21 A.

Panelboard: Panel MLOH1. Bus Ampacity: 100 Volts: 480Y/277 Panel Source: MDOH2. Branch Brkr Space: 18 Poles Phase: 3 Feed-Thru Lugs: None. Main Type: MLO Wires: 4 Sub-Feed Lugs: None. MCB Amps: Delta/Wye Surface Wye Sub-Feed Brkr #1: None. Mounting: Enclosure NEMA 1 Sub-Feed Brkr #2: None. Enclosure: 18 KA. SCCR: No Sub-Feed Brkr #2: None. SE Rated: No. Phil MCA: 25 A.

Panelboard: Panel 1POH1. Bus Ampacity: 125 Volts: 480Y/277 Panel Source: MDOH1. Branch Brkr Space: 30 Poles Phase: 3 Feed-Thru Lugs: None. Main Type: MLO Wires: 4 Sub-Feed Lugs: None. MCB Amps: Delta/Wye Surface Wye Sub-Feed Brkr #1: None. Mounting: Enclosure NEMA 1 Sub-Feed Brkr #2: None. Enclosure: 18 KA. SCCR: No Sub-Feed Brkr #2: None. SE Rated: No. Phil MCA: 48 A.

Panelboard: Panel 1POL1. Bus Ampacity: 400 Volts: 208Y/120 Panel Source: 1DOL1. Branch Brkr Space: 30 Poles Phase: 3 Feed-Thru Lugs: None. Main Type: MLO Wires: 4 Sub-Feed Lugs: None. MCB Amps: Delta/Wye Surface Wye Sub-Feed Brkr #1: None. Mounting: Enclosure NEMA 12 Sub-Feed Brkr #2: None. Enclosure: 10 KA. SCCR: No Sub-Feed Brkr #2: None. SE Rated: No. Phil MCA: 222 A.

Panelboard: Panel 1POL2. Bus Ampacity: 400 Volts: 208Y/120 Panel Source: 1DOL1. Branch Brkr Space: 30 Poles Phase: 3 Feed-Thru Lugs: None. Main Type: MLO Wires: 4 Sub-Feed Lugs: None. MCB Amps: Delta/Wye Surface Wye Sub-Feed Brkr #1: None. Mounting: Enclosure NEMA 12 Sub-Feed Brkr #2: None. Enclosure: 10 KA. SCCR: No Sub-Feed Brkr #2: None. SE Rated: No. Phil MCA: 215 A.

Panelboard: Panel 1ROL4. Bus Ampacity: 225 Volts: 208Y/120 Panel Source: MDOL1. Branch Brkr Space: 30 Poles Phase: 3 Feed-Thru Lugs: None. Main Type: MLO Wires: 4 Sub-Feed Lugs: None. MCB Amps: Delta/Wye Surface Wye Sub-Feed Brkr #1: None. Mounting: Enclosure NEMA 1 Sub-Feed Brkr #2: None. Enclosure: 10 KA. SCCR: No Sub-Feed Brkr #2: None. SE Rated: No. Phil MCA: 82 A.

Panelboard: Panel 1ROL5. Bus Ampacity: 100 Volts: 208Y/120 Panel Source: MDOL1. Branch Brkr Space: 18 Poles Phase: 3 Feed-Thru Lugs: None. Main Type: MCB Wires: 4 Sub-Feed Lugs: None. MCB Amps: 60 Delta/Wye Surface Wye Sub-Feed Brkr #1: None. Mounting: Enclosure NEMA 1 Sub-Feed Brkr #2: None. Enclosure: 10 KA. SCCR: No Sub-Feed Brkr #2: None. SE Rated: No. Phil MCA: 32 A.

Panelboard: Panel 1ROL6. Bus Ampacity: 100 Volts: 208Y/120 Panel Source: MDOL1. Branch Brkr Space: 18 Poles Phase: 3 Feed-Thru Lugs: None. Main Type: MLO Wires: 4 Sub-Feed Lugs: None. MCB Amps: Delta/Wye Surface Wye Sub-Feed Brkr #1: None. Mounting: Enclosure NEMA 12 Sub-Feed Brkr #2: None. Enclosure: 10 KA. SCCR: No Sub-Feed Brkr #2: None. SE Rated: No. Phil MCA: 49 A.

Panelboard: Panel MR0L1. Bus Ampacity: 400 Volts: 208Y/120 Panel Source: MDOH2. Branch Brkr Space: 30 Poles Phase: 3 Feed-Thru Lugs: None. Main Type: MCB Wires: 4 Sub-Feed Lugs: None. MCB Amps: 250 Delta/Wye Surface Wye Sub-Feed Brkr #1: None. Mounting: Enclosure NEMA 1 Sub-Feed Brkr #2: None. Enclosure: 10 KA. SCCR: No Sub-Feed Brkr #2: None. SE Rated: No. Phil MCA: 113 A.

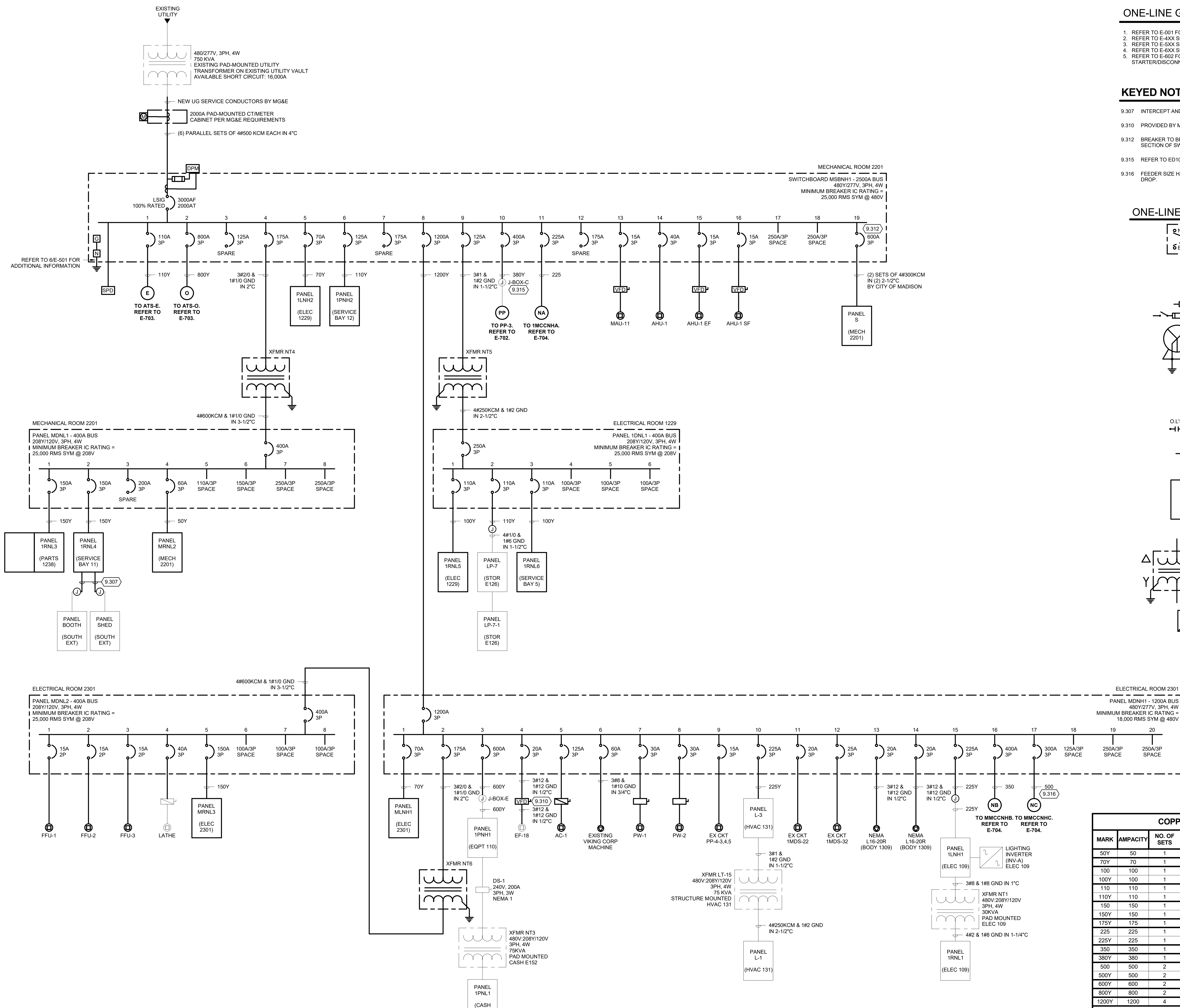
Panelboard: Panel 1POL1 (continued). Key Note: A=HACR G=GFI H=HANDLE LOCK C=THRU CONTACTOR I=ISOLATED GRD S=SHUNT TRIP P=PADLOCK HASP D=HID LIGHTING E=EXISTING

Panelboard: Panel 1ROL4 (continued). Key Note: A=HACR G=GFI H=HANDLE LOCK C=THRU CONTACTOR I=ISOLATED GRD S=SHUNT TRIP P=PADLOCK HASP D=HID LIGHTING E=EXISTING

Panelboard: Panel 1ROL5 (continued). Key Note: A=HACR G=GFI H=HANDLE LOCK C=THRU CONTACTOR I=ISOLATED GRD S=SHUNT TRIP P=PADLOCK HASP D=HID LIGHTING E=EXISTING

Panelboard: Panel 1ROL6 (continued). Key Note: A=HACR G=GFI H=HANDLE LOCK C=THRU CONTACTOR I=ISOLATED GRD S=SHUNT TRIP P=PADLOCK HASP D=HID LIGHTING E=EXISTING





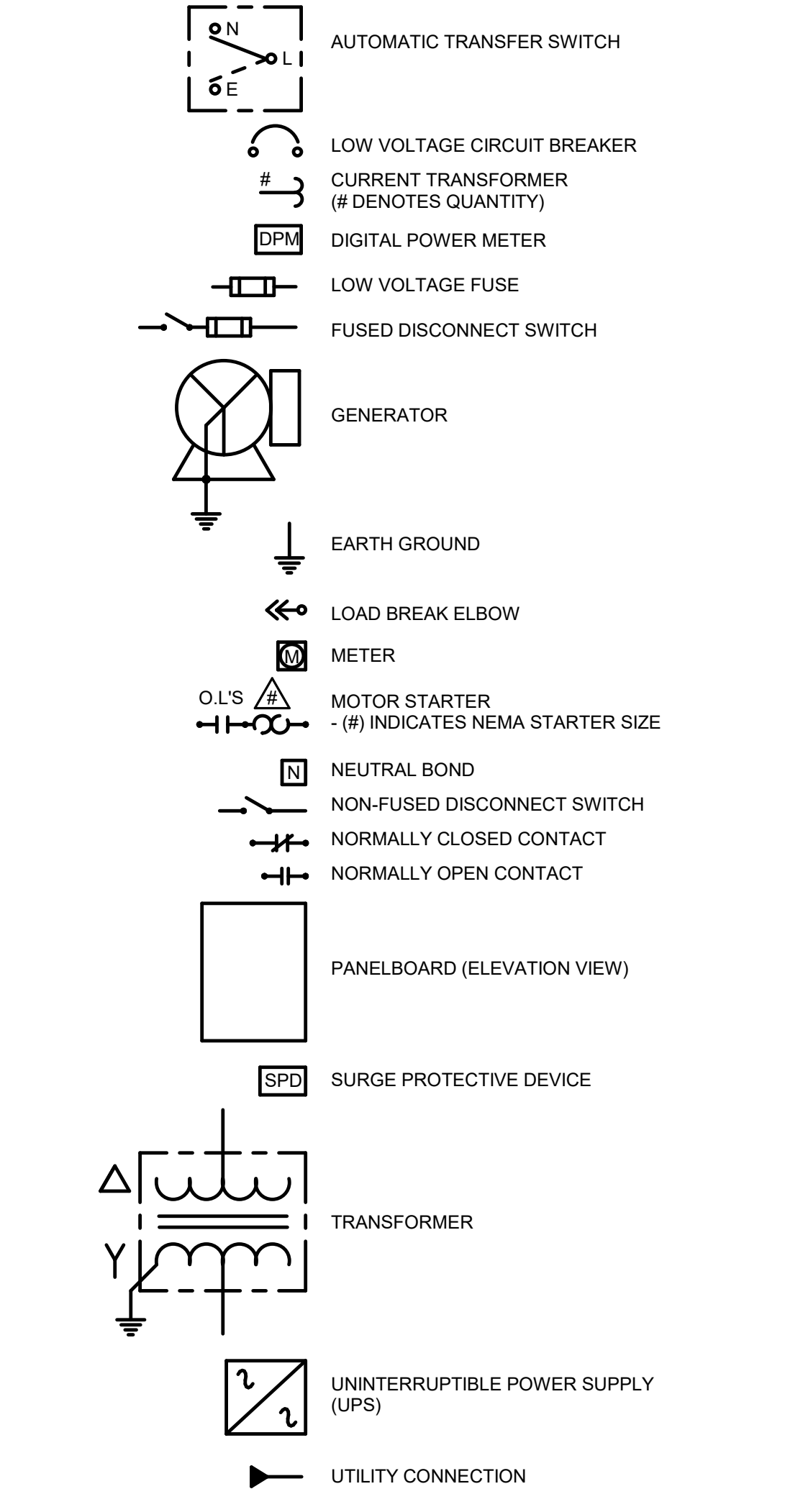
**ONE-LINE GENERAL NOTES:**

- REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
- REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
- REFER TO E-5XX SERIES FOR DETAILS.
- REFER TO E-6XX SERIES FOR SCHEDULES.
- REFER TO E-602 FOR EQUIPMENT CONNECTION WIRING SIZE AND STARTER/DISCONNECT INFORMATION.

**KEYED NOTES**

- 9.307 INTERCEPT AND EXTEND FEEDER FROM JUNCTION BOX TO NEW PANEL.
- 9.310 PROVIDED BY MC INSTALLED AND WIRED BY EC
- 9.312 BREAKER TO BE RATED FOR PV SYSTEM. BREAKER TO BE LOCATED IN LAST SECTION OF SWITCHBOARD TO MEET NEC 705.12(B)(2)(3.B).
- 9.315 REFERENCE TO ED101 FOR LOCATION OF J-BOX-C.
- 9.316 FEEDER SIZE HAS BEEN INCREASED TO ACCOMMODATE FOR VOLTAGE DROP.

**ONE-LINE SYMBOLS**



**ONE-LINE DIAGRAM - NORMAL**  
NO SCALE

**COPPER FEEDER SCHEDULE**

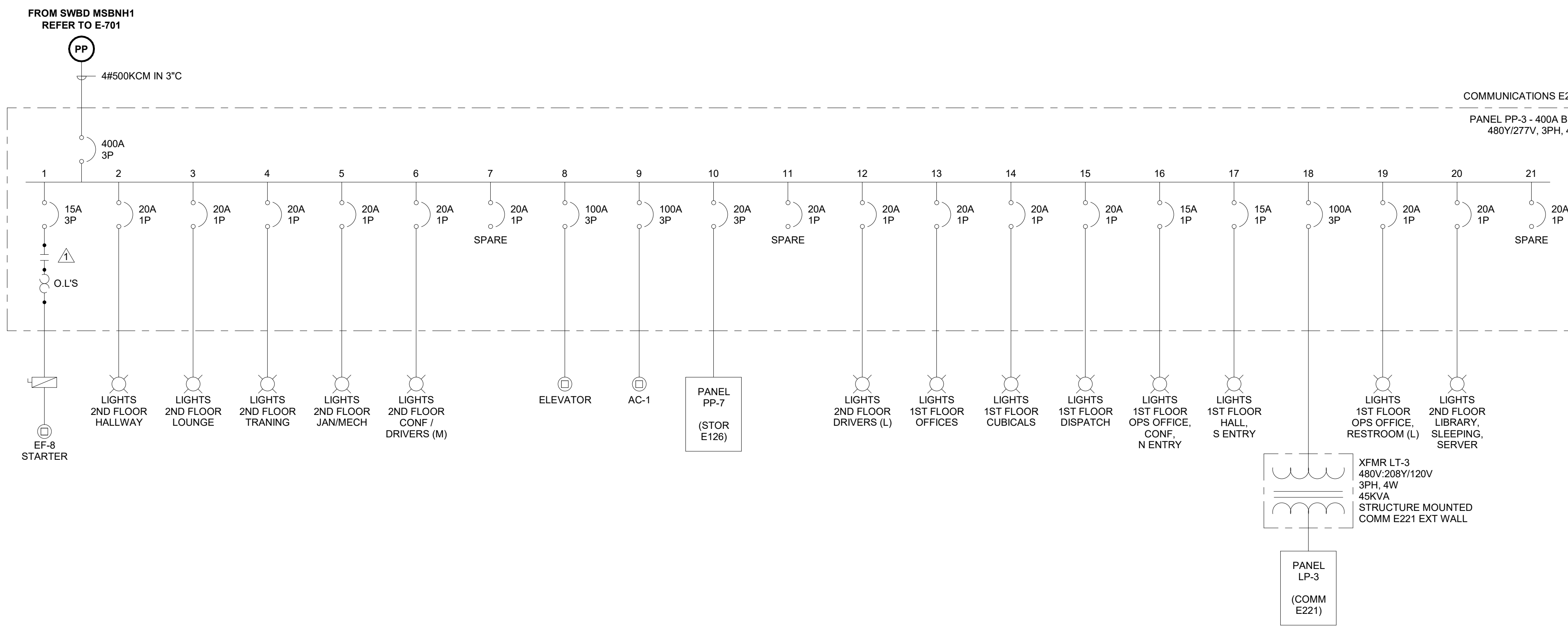
MARK	AMPACITY	NO. OF SETS	CONDUCTOR SIZES (AWG OR KCMIL)				CONDUIT SIZE
			PHASE	NEUTRAL	EQ GND	ISO GND	
50Y	50	1	3 - # 6	1 - # 6	1 - # 10	1 - 1/4"	
70Y	70	1	3 - # 4	1 - # 4	1 - # 8	1 - 1/4"	
100	100	1	3 - # 1	-	1 - # 8	1 - 1/2"	
100Y	100	1	3 - # 1	1 - # 1	1 - # 8	1 - 1/2"	
110	110	1	3 - # 2	-	1 - # 6	1 - 1/4"	
110Y	110	1	3 - # 2	1 - # 2	1 - # 6	1 - 1/4"	
150	150	1	3 - # 1/0	-	1 - # 6	1 - 1/2"	
150Y	150	1	3 - # 1/0	1 - # 1/0	1 - # 6	2"	
175Y	175	1	3 - # 2/0	1 - # 2/0	1 - # 6	2"	
225	225	1	3 - # 4/0	-	1 - # 4	2"	
225Y	225	1	3 - # 4/0	1 - # 4/0	1 - # 4	2-1/2"	
350	350	1	3 - 500	-	1 - # 3	3"	
380Y	380	1	3 - 500	1 - 500	1 - # 3	3-1/2"	
500	500	2	3 - 250	-	1 - # 2	2-1/2"	
500Y	500	2	3 - 250	1 - 250	1 - # 2	3"	
600Y	600	2	3 - 350	1 - 350	1 - # 1	3"	
800Y	800	2	3 - 500	1 - 500	1 - # 1/0	3 - 1/2"	
1200Y	1200	4	3 - 350	1 - 350	1 - # 3/0	3"	

- FEEDER SCHEDULE NOTES:**
- THE SCHEDULE IS A SCHEDULE OF TYPICAL FEEDERS AND SOME OF THE SIZES MAY NOT APPLY TO THIS PROJECT.
  - ALL THE CONDUCTOR AMPACITIES ARE BASED ON TABLE 310.15(B)(16) OF THE NEC FOR COPPER CONDUCTORS (75 DEGREE CELSIUS CHART).
  - FEEDER SIZES SHOWN ON THE RISER DIAGRAM INDICATE FEEDER AMPACITIES AND DO NOT NECESSARILY CORRESPOND TO THE CIRCUIT BREAKER AMPACITIES. CERTAIN FEEDERS MAY BE SIZED FOR DURATION FACTORS AND/OR OVERSIZED FOR VOLTAGE DROP PER NEC REQUIREMENTS.



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- ONE-LINE GENERAL NOTES:**
1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
  2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
  3. REFER TO E-5XX SERIES FOR DETAILS.
  4. REFER TO E-6XX SERIES FOR SCHEDULES.
  5. REFER TO E-602 FOR EQUIPMENT CONNECTION WIRING SIZE AND STARTER/DISCONNECT INFORMATION.

**1 ONE-LINE DIAGRAM - NORMAL**  
NO SCALE

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**CITY OF MADISON  
METRO TRANSIT PHASE 3A - MAINTENANCE AND  
DRIVER FACILITY IMPROVEMENTS**  
1101 EAST WASHINGTON AVE.  
MADISON, WI 53703

ISSUED  
04/08/21 BID SET

CONTRACT NO.: 8981  
M&H NO.: 4503500-190896.03  
DATE: APRIL 8, 2021  
DESIGNED BY: MAM  
DRAWN BY: KAS  
CHECKED BY: SDL

DO NOT SCALE DRAWINGS  
SHEET CONTENTS  
ONE-LINE DIAGRAM -  
NORMAL

SHEET NO.:

**E-702**



ISSUED  
04/08/21 BID SET

CONTRACT NO.: 8981  
 MWV NO.: 4503500-190896.03  
 DATE: APRIL 8, 2021  
 DESIGNED BY: MAM  
 DRAWN BY: KAS  
 CHECKED BY: SDL

DO NOT SCALE DRAWINGS

SHEET CONTENTS

ONE-LINE DIAGRAM - GENERATOR-SOURCED

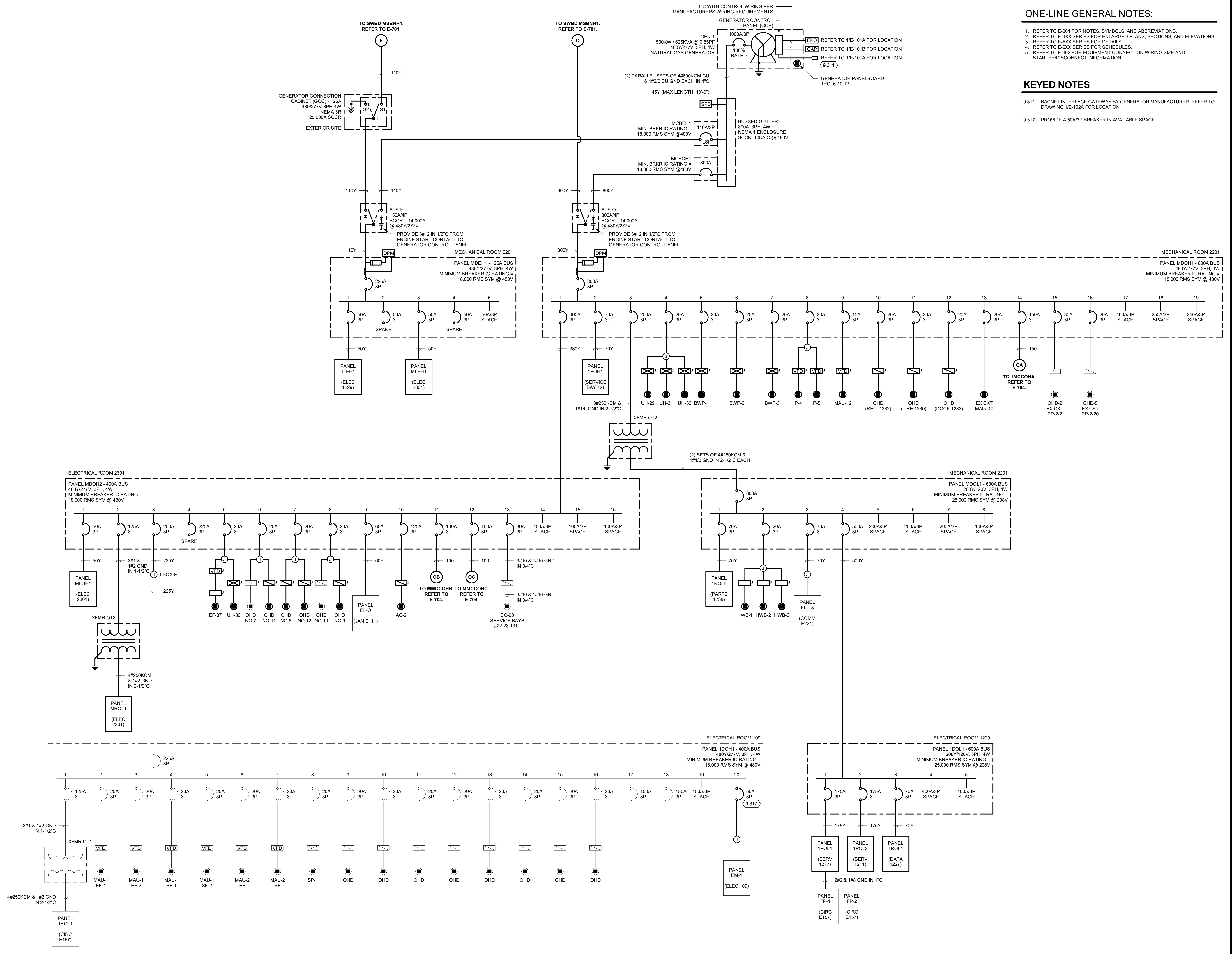
SHEET NO.:

**ONE-LINE GENERAL NOTES:**

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-602 FOR EQUIPMENT CONNECTION WIRING SIZE AND STARTER/DISCONNECT INFORMATION.

**KEYED NOTES**

- 9.311 BACNET INTERFACE GATEWAY BY GENERATOR MANUFACTURER, REFER TO DRAWING 1/E-102A FOR LOCATION.
- 9.317 PROVIDE A 50A/3P BREAKER IN AVAILABLE SPACE.



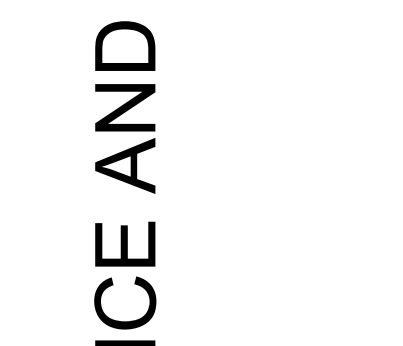
**1 ONE-LINE DIAGRAM - GENERATOR-SOURCED**  
NO SCALE

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ONE-LINE GENERAL NOTES:

1. REFER TO E-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO E-4XX SERIES FOR ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
3. REFER TO E-5XX SERIES FOR DETAILS.
4. REFER TO E-6XX SERIES FOR SCHEDULES.
5. REFER TO E-602 FOR EQUIPMENT CONNECTION WIRING SIZE AND STARTER/DISCONNECT INFORMATION.

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**CITY OF MADISON  
 METRO TRANSIT PHASE 3A - MAINTENANCE AND  
 DRIVER FACILITY IMPROVEMENTS  
 1101 EAST WASHINGTON AVE.  
 MADISON, WI 53703**

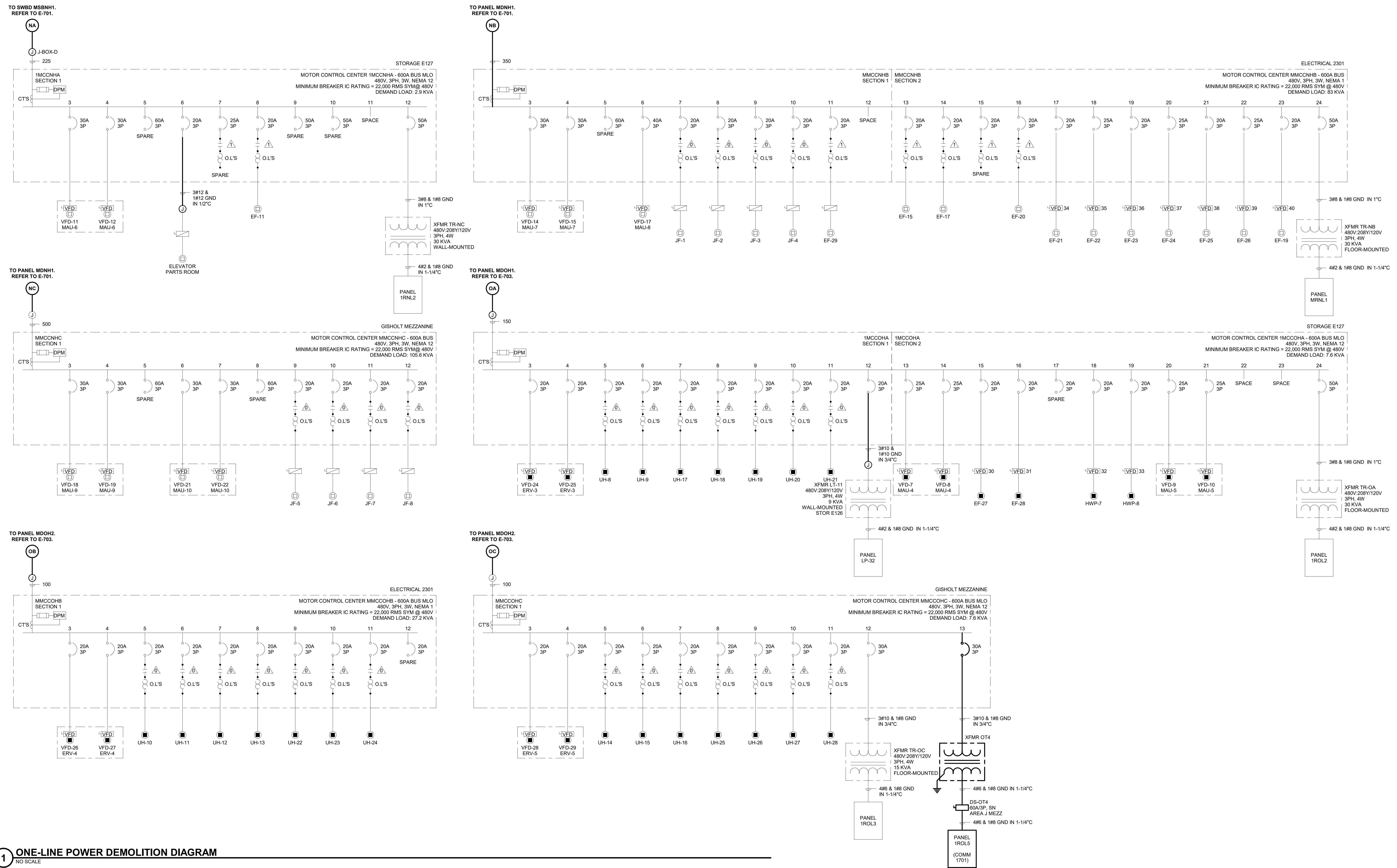
ISSUED  
 04/08/21 BID SET

CONTRACT NO.: 8981  
 MW NO.: 4503500-1908996.03  
 DATE: APRIL 8, 2021  
 DESIGNED BY: MAM  
 DRAWN BY: KAS  
 CHECKED BY: SDL  
DO NOT SCALE DRAWINGS

SHEET CONTENTS  
 ONE-LINE DIAGRAM -  
 MOTOR CONTROL  
 CENTERS

SHEET NO.:

**E-704**



**1 ONE-LINE POWER DEMOLITION DIAGRAM**  
 NO SCALE

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SECURITY SYSTEM SYMBOLS

Table of Security System Symbols with columns for Symbol and Description. Includes symbols for Cardreader, Key Pad, Proximity Reader, Status Sensor, Audible Alarm, Magnetic Lock, Key Shunt, Electric Strike, Pushbutton, Panic Hardware, Intercom Station, Intercom Master Station, Biometric Cardreader, Access Control System, Com Lock, Duress Pushbutton, Gate Operator, Glass Break Sensor, Loop Detector, Pad Lock, Premises Control Unit, Security Computer, Vibration Sensor, Override Keypad, Access Control Panel, Strobe Light, Door Contact, Request to Exit, Access Control Device.

AUDIO VISUAL SYMBOLS

Table of Audio Visual Symbols with columns for Symbol and Description. Includes symbols for Ambient Noise Sensor, Clock, Display, Display(s), Intercom, Loudspeaker, Loudspeaker - Wall-Mounted, Loudspeaker - Horn Type, Loudspeaker - Pendant-Mounted, Paging Station, Projector, Volume Control.

GENERAL SYMBOLS

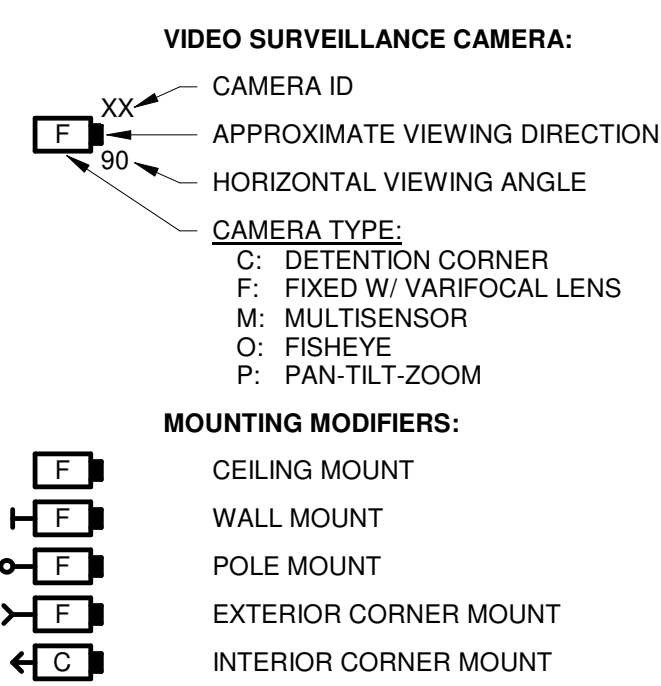
Table of General Symbols with columns for Symbol and Description. Includes symbols for Detail Number / Sheet Number, Room Name and Number, Door Identification, Building Section, Enlarged Plan, Interior Elevation.

TECHNOLOGY OUTLET SCHEDULE

Table of Technology Outlet Schedule with columns for Symbol, Description, Mounting, and Comments. Lists various outlet types like Single-Port, Two-Port, Four-Port, and Flat-Panel Display Technology Outlets with their respective specifications.

TECHNOLOGY OUTLET SCHEDULE NOTES: 1. REFER TO DIVISION 26 SPECIFICATIONS FOR BOX AND CONDUIT SPECIFICATIONS AND EXECUTION REQUIREMENTS. 2. REFER TO DIVISION 27 SPECIFICATIONS FOR LOW-VOLTAGE CABLING PATHWAY REQUIREMENTS.

VIDEO SURVEILLANCE SYMBOLS



LINE TYPE KEY

Table of Line Type Key defining symbols for New Work by this contractor, Existing to be removed, Existing to remain, and Site underground conduit/fiber optic.

COMMUNICATIONS SYMBOLS

Table of Communications Symbols with columns for Symbol and Description. Includes symbols for Antenna, Building Entrance Terminal, Fiber Optic Cabinet, Media Box, Patch Panel, Telecommunications Main Grounding Bus Bar, Surface Raceway, Post Equipment Rack, Equipment Cabinet, and Technology Panel.

SITE SYMBOLS

Table of Site Symbols with columns for Symbol and Description. Includes symbols for Handhole, Manhole, Single Height Security Pedestal, and Dual Height Security Pedestal.

TECHNOLOGY ABBREVIATIONS

Table of Technology Abbreviations listing symbols for AND, ARCHITECT / ENGINEER, ACCESS CONTROL SYSTEM, ABOVE FINISHED FLOOR, ABOVE FINISH GRADE, AUTHORITY HAVING JURISDICTION, ALTERNATE, AMERICAN NATIONAL STANDARDS INSTITUTE, (WIRELESS) ACCESS POINT, AUDIO VISUAL, AMERICAN WIRE GAUGE, BUILDING ENTRANCE TERMINAL, BAGGAGE INFORMATION DISPLAY SYSTEM, BUILDING CONDUIT, COMMUNITY ANTENNA TELEVISION, CENTERLINE, COAXIAL, COMMUNICATIONS, DIGITAL SATELLITE SERVICE, DRAWING, ELECTRICAL CONTRACTOR, ELECTRONIC INDUSTRIES ALLIANCE, ELECTRICAL METALLIC TUBING, ELECTRICAL NONMETALLIC TUBING, EQUIPMENT OUTLET, EXISTING TO BE RELOCATED, EXISTING - RELOCATED LOCATION, EXISTING TO REMAIN, FOLDED UNSCREENED TWISTED PAIR, FIRE ALARM, FIRE ALARM ANNUNCIATOR PANEL, FIRE ALARM CONTROL PANEL, FLIGHT INFORMATION DISPLAY SYSTEM, FIBER OPTIC, FLAT-PANEL DISPLAY, GENERAL CONTRACTOR, GATE INFORMATION DISPLAY SYSTEM, GROUND, GALVANIZED RIGID CONDUIT, GALVANIZED RIGID STEEL, HAND HOLE, HEATING, VENTILATION, AIR CONDITIONING, INTERMEDIATE DISTRIBUTION FRAME, INTRUSION DETECTION SYSTEM, INTERMEDIATE METALLIC CONDUIT, INFORMATION TECHNOLOGY, JUNCTION BOX, MAXIMUM, MAIN DISTRIBUTION FRAME, MAN HOLE, MINIMUM, MULTIMODE FIBER OPTIC, MASS NOTIFICATION SYSTEM, MONITOR, MODULAR PLUG TERMINATED LINK MOUNTED, MAIN TECHNOLOGY ROOM, NATIONAL ELECTRIC CODE, NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION, NOT IN CONTRACT, NOT TO SCALE, ON CENTER, OWNER-FURNISHED, CONTRACTOR-INSTALLED, OWNER-FURNISHED, OWNER-INSTALLED, PUBLIC ADDRESS, PAN-TILT-ZOOM, POLYVINYL CHLORIDE, RECEIVER, REQUIRED, SCREENED TWISTED PAIR, SERVICE ENTRANCE, SINGLEMODE FIBER OPTIC, STAINLESS STEEL, SHIELDED TWISTED PAIR, TO BE REMOVED, TECHNOLOGY CONTRACTOR, TELECOMMUNICATIONS GROUNDING BUSBAR, TELECOMMUNICATIONS INDUSTRY ASSOCIATION, TELECOMMUNICATIONS MAIN GROUNDING BUSBAR, TECHNOLOGY OUTLET, TECHNOLOGY ROOM, TELEVISION, TYPICAL, UNDERGROUND, UNLESS NOTED OTHERWISE, UNINTERRUPTIBLE POWER SUPPLY, UNSHIELDED TWISTED PAIR, VIDEO MANAGEMENT SYSTEM, VIDEO SURVEILLANCE SYSTEM, WET LOCATION LISTED, WEATHERPROOF.

DEMOLITION GENERAL NOTES

- 1. THE INFORMATION SHOWN IS BASED ON EXISTING DRAWINGS AND SITE OBSERVATIONS TO ASSIST THE CONTRACTOR IN BIDDING. THE CONTRACTOR SHOULD VISIT THE SITE TO VERIFY EXISTING CONDITIONS. THE TECHNOLOGY SYSTEMS DRAWINGS INDICATE EXISTING TECHNOLOGY SYSTEMS ITEMS TO BE REMOVED. THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF WORK REQUIRED AND DO NOT INDICATE EVERY DEVICE, BOX, CONDUIT, WIRE OR CABLE THAT MUST BE REMOVED.
2. DASHED WALLS ON THE FLOOR PLANS INDICATE EXISTING WALLS BEING DEMOLISHED. REFER TO THE ARCHITECTURAL DEMOLITION PLANS FOR THE EXACT EXTENT OF WORK REQUIRED BY THIS PROJECT. REMOVE ALL DEVICES ON DASHED WALLS NOT SHOWN ON THE CONTRACT DRAWINGS. REFER TO DEMOLITION DRAWINGS OF OTHER TRADES, WHERE CONTROL PANELS AND APPURTENANCES THAT HAVE TECHNOLOGY SYSTEMS CONNECTIONS ARE BEING REMOVED. INCLUDE DISCONNECTION AND REMOVAL OF ALL ASSOCIATED CONDUIT, WIRING AND CABLING.
3. TECHNOLOGY SYSTEMS ITEMS (E.G. TECHNOLOGY OUTLETS, SECURITY SYSTEMS DEVICES, AUDIO DEVICES, CABLE) THAT ARE REMOVED AND NOT RELOCATED SHALL REMAIN THE PROPERTY OF THE OWNER. DISPOSE OF MATERIAL THE OWNER DOES NOT WANT TO REUSE OR RETAIN FOR MAINTENANCE PURPOSES.
4. OBTAIN APPROVAL FROM THE OWNER BEFORE TURNING OFF POWER TO TECHNOLOGY SYSTEMS EQUIPMENT OR DEVICES. COORDINATE ALL OUTAGES WITH THE OWNER.
5. PROVIDE A BLANK COVERPLATE FOR ALL BOXES IN EXISTING MASONRY WALLS THAT ARE TO REMAIN IN PLACE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS ASSOCIATED WITH TYPE AND ATTACHMENT.
6. REMOVE ALL CONDUIT WHERE WALLS ARE BEING REMOVED. WHERE CONDUIT IS IN THE CONCRETE SLAB, CUT OUT WIRE OR CABLE AND PLUG. WHERE CONDUIT IS RUN EXPOSED, ALL ASSOCIATED CLAMPS, SUPPORTS, HANGERS, ETC. SHALL BE REMOVED.
7. COORDINATE ALL WORK WITH OTHER CONTRACTORS AT THE JOB SITE BEFORE REMOVING EXISTING TECHNOLOGY SYSTEMS ITEMS AND INSTALLING NEW ITEMS.
8. EXISTING CONDUIT IN GOOD CONDITION MAY BE REUSED IN PLACE. RELOCATED EXISTING CONDUIT SHALL NOT BE ALLOWED. CONDUIT CONCEALED IN WALL CONSTRUCTION MAY BE REUSED IN PLACE IF NOT AFFECTED BY OTHER CONSTRUCTION.

GENERAL NOTES

- 1. PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO INSTALL COMPLETE TECHNOLOGY SYSTEMS AS INDICATED ON THESE DRAWINGS AND AS SPECIFIED.
2. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE DETAILS OF WORK, VERIFY DIMENSIONS IN THE FIELD, AND ADVISE THE ARCHITECT/ENGINEER OF ANY DISCREPANCY BEFORE PERFORMING ANY WORK.
3. COORDINATE LOCATION AND MOUNTING REQUIREMENTS OF ALL CEILING-MOUNTED OR ABOVE-CEILING-MOUNTED DEVICES WITH REFLECTED CEILING PLAN, LIGHTING LAYOUT, SIGNAGE, AND OTHER CEILING OR ABOVE-CEILING-MOUNTED EQUIPMENT.
4. MOUNT ALL TECHNOLOGY OUTLETS AT HEIGHTS ABOVE FINISHED FLOOR AS SHOWN IN THE TECHNOLOGY OUTLET SCHEDULE U.N.O.
5. ALL TECHNOLOGY RACEWAY (CONDUIT, BACKBOX, SUPPORTS) SHALL BE PROVIDED BY DIVISION 26. SEE DIVISION 26 SPECIFICATIONS FOR GENERAL RACEWAY REQUIREMENTS. ADDITIONAL REQUIREMENTS INCLUDE:
- PROVIDE A BEND RADIUS OF TEN TIMES THE OUTSIDE DIAMETER OR GREATER FOR ALL TECHNOLOGY RACEWAY.
- PROVIDE A MINIMUM CONDUIT SIZE OF 1" UNLESS NOTED OTHERWISE.
- PROVIDE PLASTIC OR NYLON BUSHINGS IN ALL CONDUIT STUBS PRIOR TO THE INSTALLATION OF CABLES.
6. MOUNT TECHNOLOGY SYSTEMS EQUIPMENT/DEVICES SO AS TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TECHNOLOGY SYSTEMS EQUIPMENT/DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE COORDINATED WITH AND APPROVED BY THAT CONTRACTOR IN ADVANCE OF INSTALLATION.
7. PROVIDE ALL OPENINGS REQUIRED IN WALLS. REPAIR ALL OPENINGS TO MATCH EXISTING USING A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. GROUT OR SEAL ALL CONDUITS THROUGH WALLS INTO OPENINGS. FIRESTOP ALL PENETRATIONS THROUGH FLOORS AND FIRE-RATED WALLS IN A MANNER THAT MAINTAINS THE RATING OF THE FLOOR OR WALL PENETRATED.
8. PROVIDE ALL TRENCHING AND BACKFILL FOR BURIED TECHNOLOGY SYSTEMS CONDUITS UNLESS NOTED OTHERWISE.
9. PROVIDE METALLIC TAPE ABOVE BURIED PVC CONDUIT FOR FUTURE LOCATING.
10. CONDUIT ROUTED UNDER THE BUILDING SHALL BE MINIMUM 18" BELOW SLAB.
11. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
12. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
13. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

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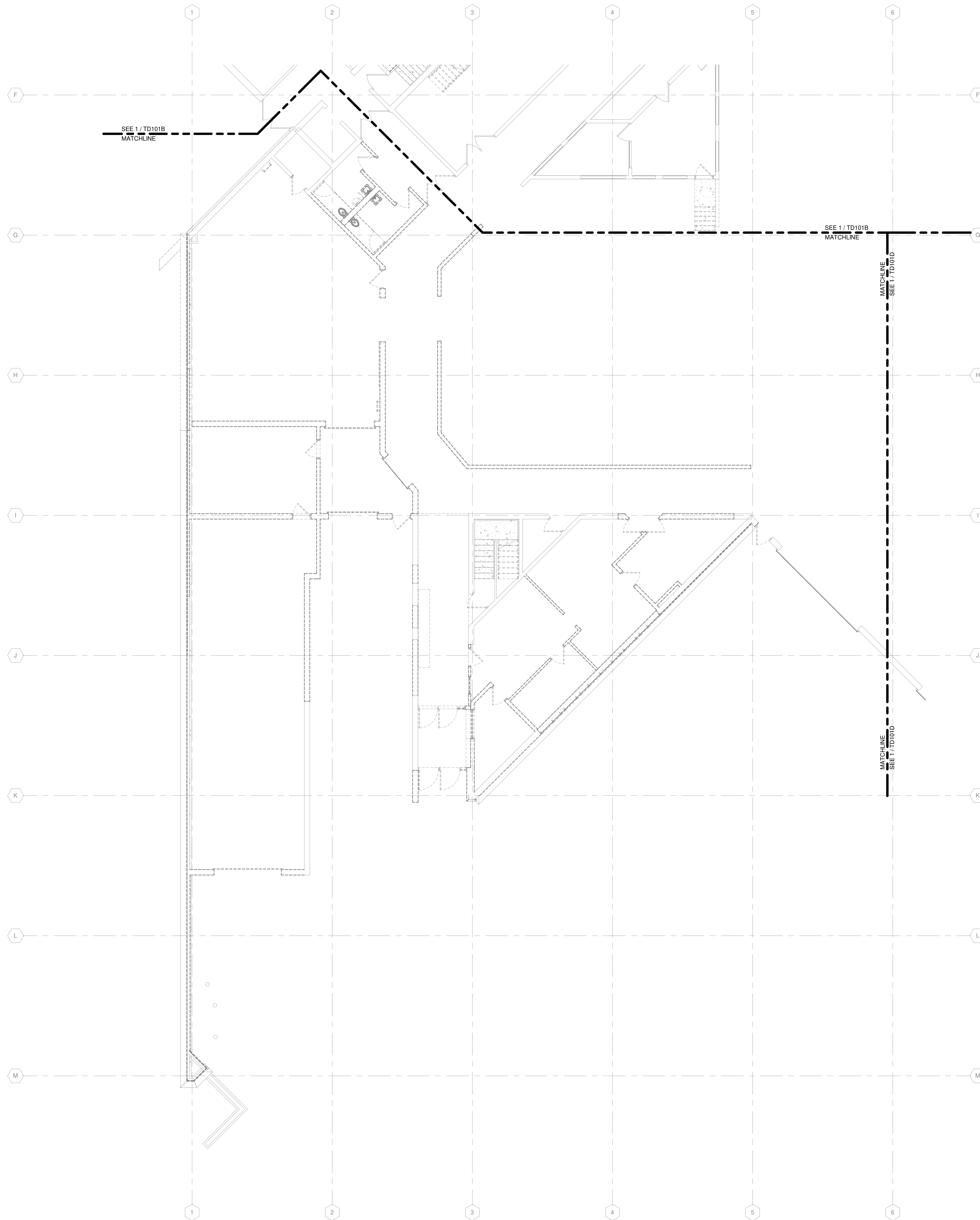
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SHEET CONTENTS NOTES, SYMBOLS & ABBREVIATIONS

SHEET NO.:

T-001



**TECHNOLOGY DEMOLITION NOTES**

1. ALL TECHNOLOGY OUTLETS IN THIS AREA ARE TO BE DEMOLISHED. REMOVE CABLING BACK TO SOURCE. REMOVE ANY UNUSED RACEWAY BACK TO SOURCE.

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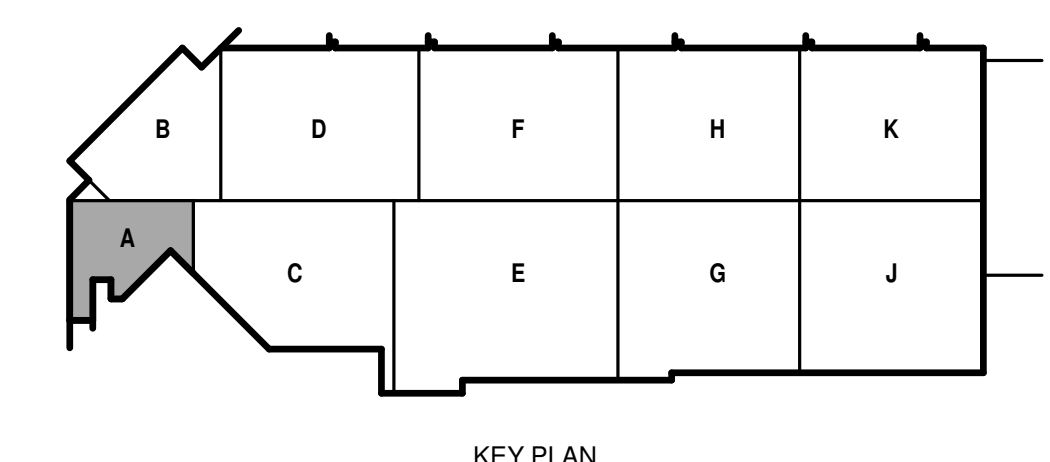
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SHEET CONTENTS  
FIRST FLOOR  
TECHNOLOGY  
SYSTEMS  
DEMOLITION PLAN -  
AREA A

SHEET NO.:

**TD101A**



KEY PLAN

TRUE PLAN  
NORTH NORTH  
**1** **FIRST FLOOR DEMOLITION PLAN- AREA A**  
1/8" = 1'-0"

**TECHNOLOGY DEMOLITION NOTES**

1. ALL EXISTING TECHNOLOGY OUTLETS IN THIS AREA TO REMAIN UNLESS NOTED OTHERWISE.
2. TECHNOLOGY OUTLETS NOTED ON THIS SHEET TO BE DEMOLISHED SHALL HAVE ALL CABLING REMOVED BACK TO SOURCE. REMOVE ANY UNUSED RACEWAY BACK TO SOURCE.

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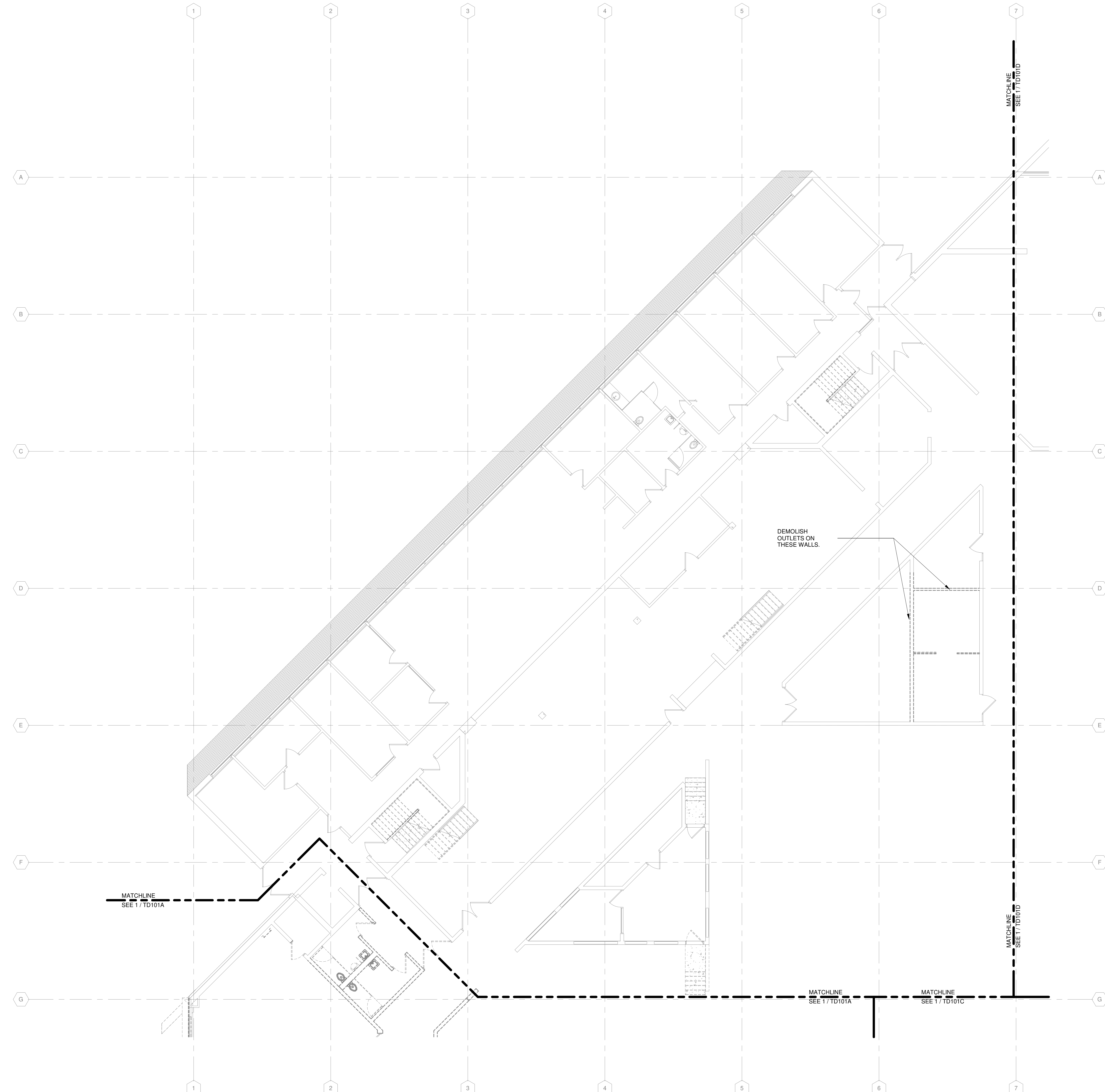
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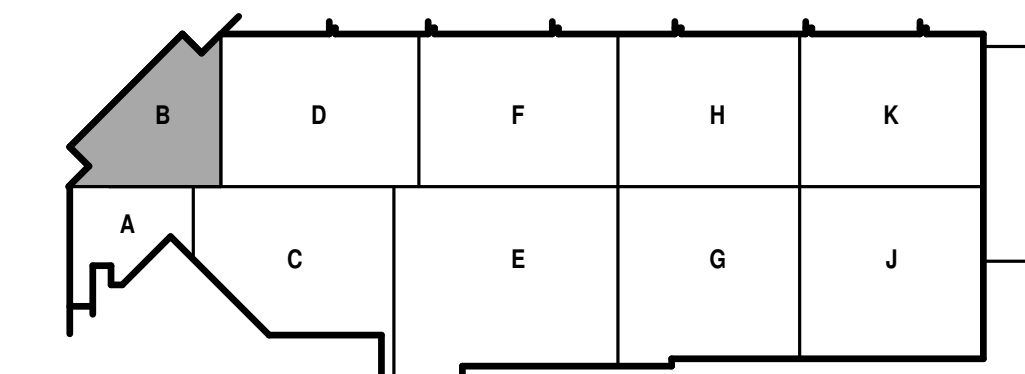
SHEET CONTENTS  
FIRST FLOOR  
TECHNOLOGY  
SYSTEMS  
DEMOLITION PLAN -  
AREA B

SHEET NO.:

**TD101B**

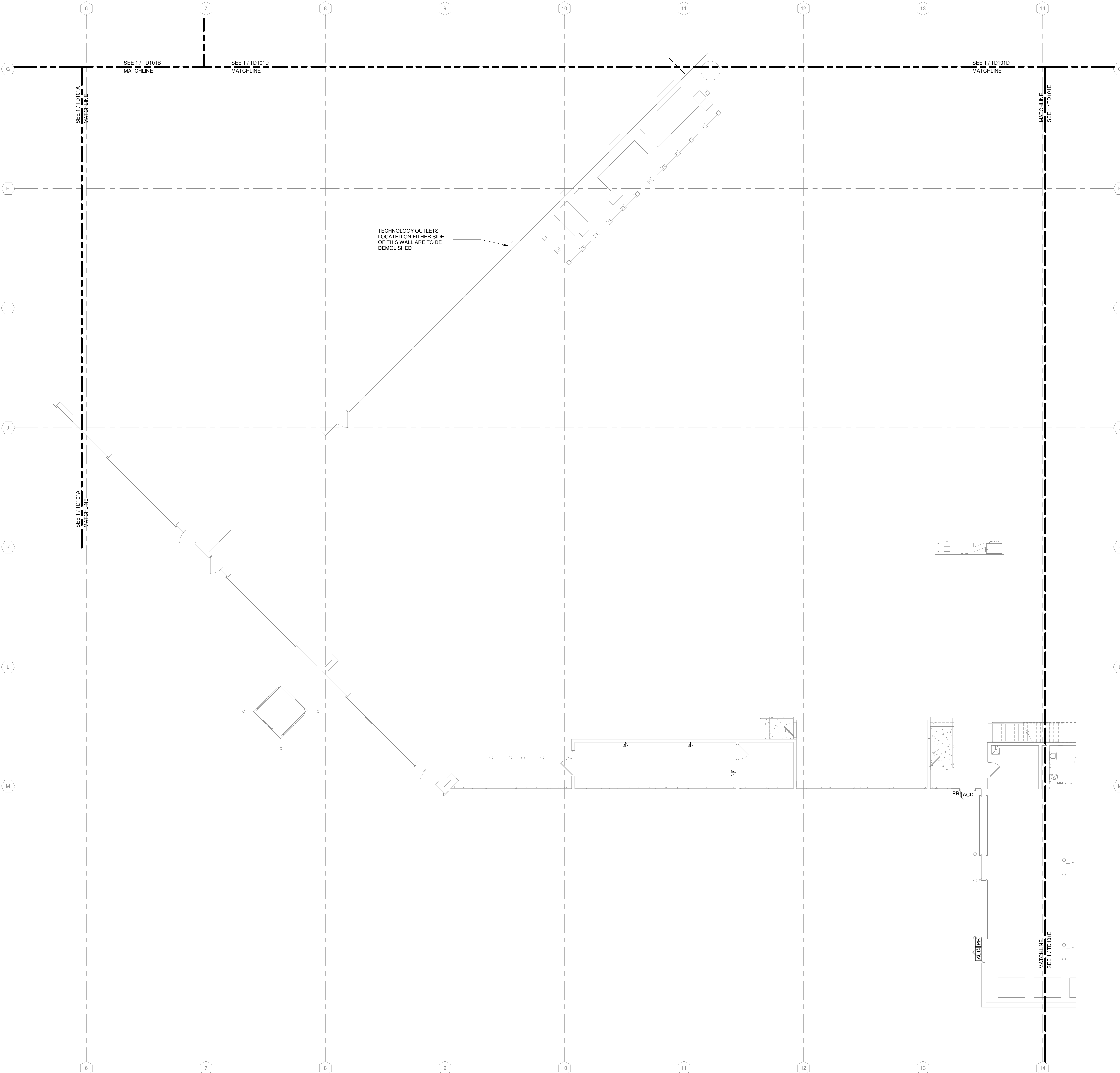


TRUE PLAN  
NORTH NORTH  
**1**  
**FIRST FLOOR DEMOLITION PLAN- AREA B**  
1/8" = 1'-0"



KEY PLAN

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**TECHNOLOGY DEMOLITION NOTES**

1. ALL EXISTING TECHNOLOGY OUTLETS IN THIS AREA TO REMAIN UNLESS NOTED OTHERWISE.
2. TECHNOLOGY OUTLETS NOTED ON THIS SHEET TO BE DEMOLISHED SHALL HAVE ALL CABLING REMOVED BACK TO SOURCE. REMOVE ANY UNUSED RACEWAY BACK TO SOURCE.

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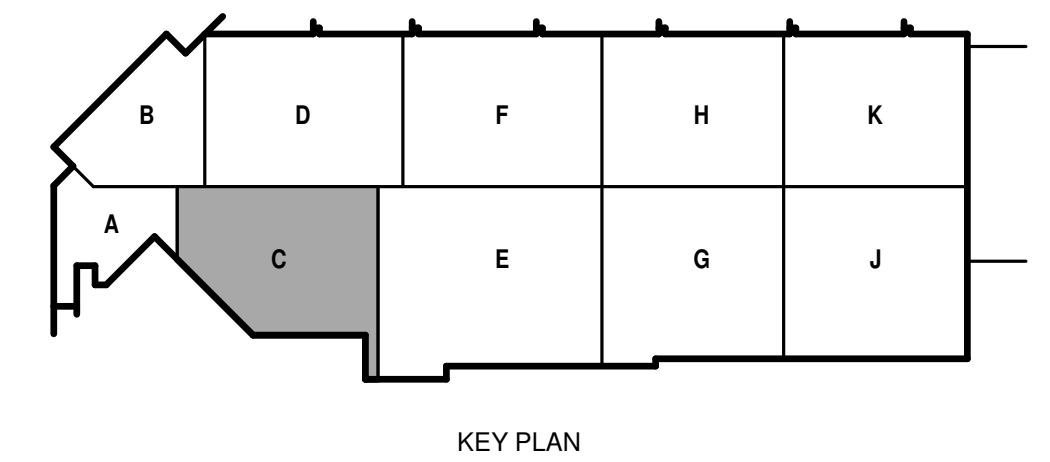
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SHEET CONTENTS  
 FIRST FLOOR  
 TECHNOLOGY  
 SYSTEMS  
 DEMOLITION PLAN -  
 AREA C

SHEET NO.:  
**TD101C**



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TRUE PLAN  
 NORTH NORTH  
**1**  
**FIRST FLOOR DEMOLITION PLAN- AREA C**  
 1/8" = 1'-0"

TECHNOLOGY DEMOLITION NOTES

1. ALL EXISTING TECHNOLOGY OUTLETS IN THIS AREA TO REMAIN UNLESS NOTED OTHERWISE.
2. TECHNOLOGY OUTLETS NOTED ON THIS SHEET TO BE DEMOLISHED SHALL HAVE ALL CABLING REMOVED BACK TO SOURCE. REMOVE ANY UNUSED RACEWAY BACK TO SOURCE.

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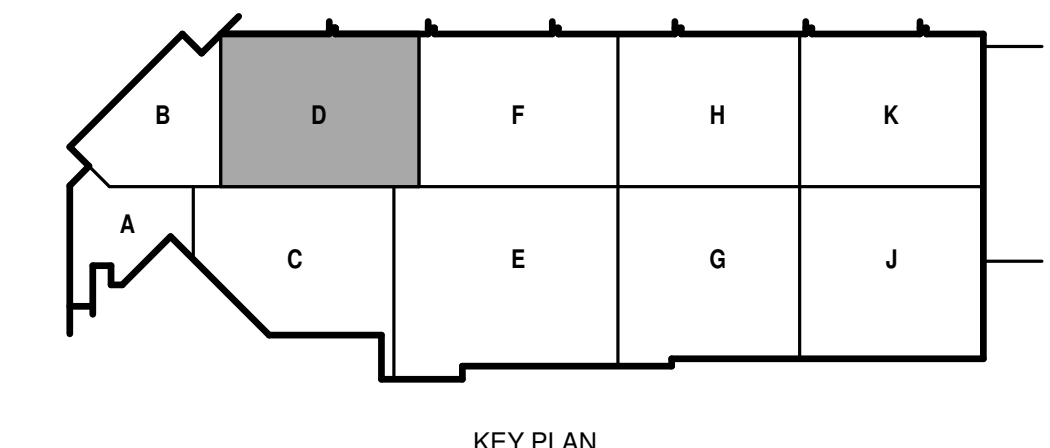
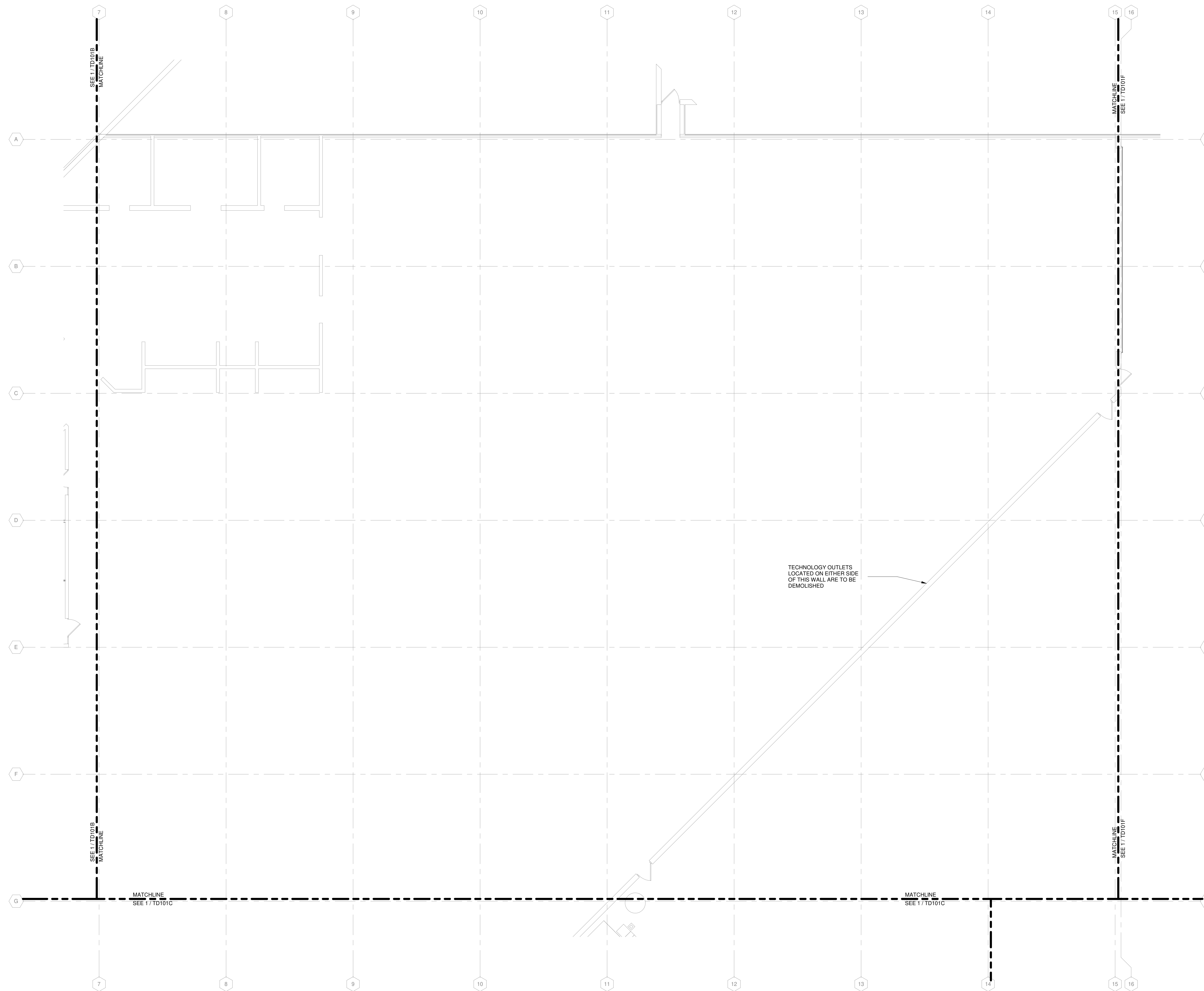
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SHEET CONTENTS  
FIRST FLOOR  
TECHNOLOGY  
SYSTEMS  
DEMOLITION PLAN - AREA D  
SHEET NO.:

TD101D



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TRUE PLAN NORTH NORTH  
**1**  
FIRST FLOOR DEMOLITION PLAN- AREA D  
1/8" = 1'-0"



TECHNOLOGY DEMOLITION NOTES

1. ALL EXISTING TECHNOLOGY OUTLETS IN THIS AREA ARE TO REMAIN.

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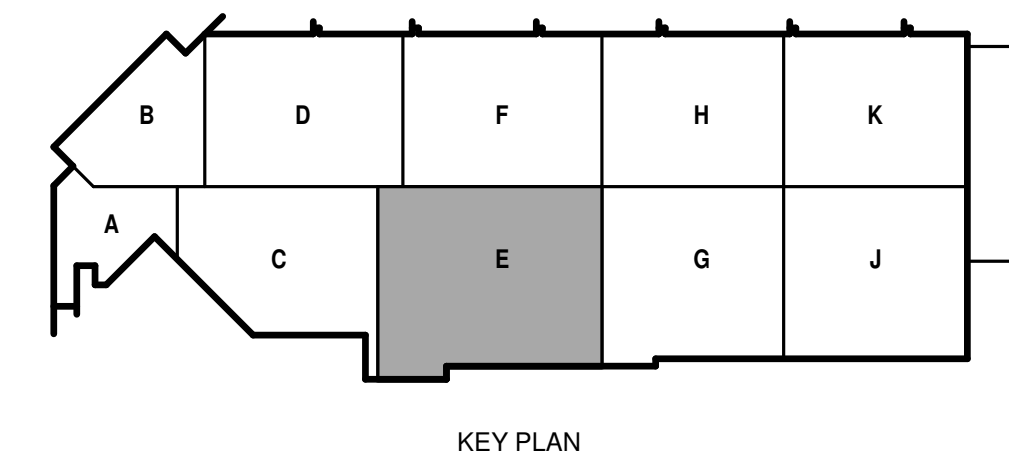
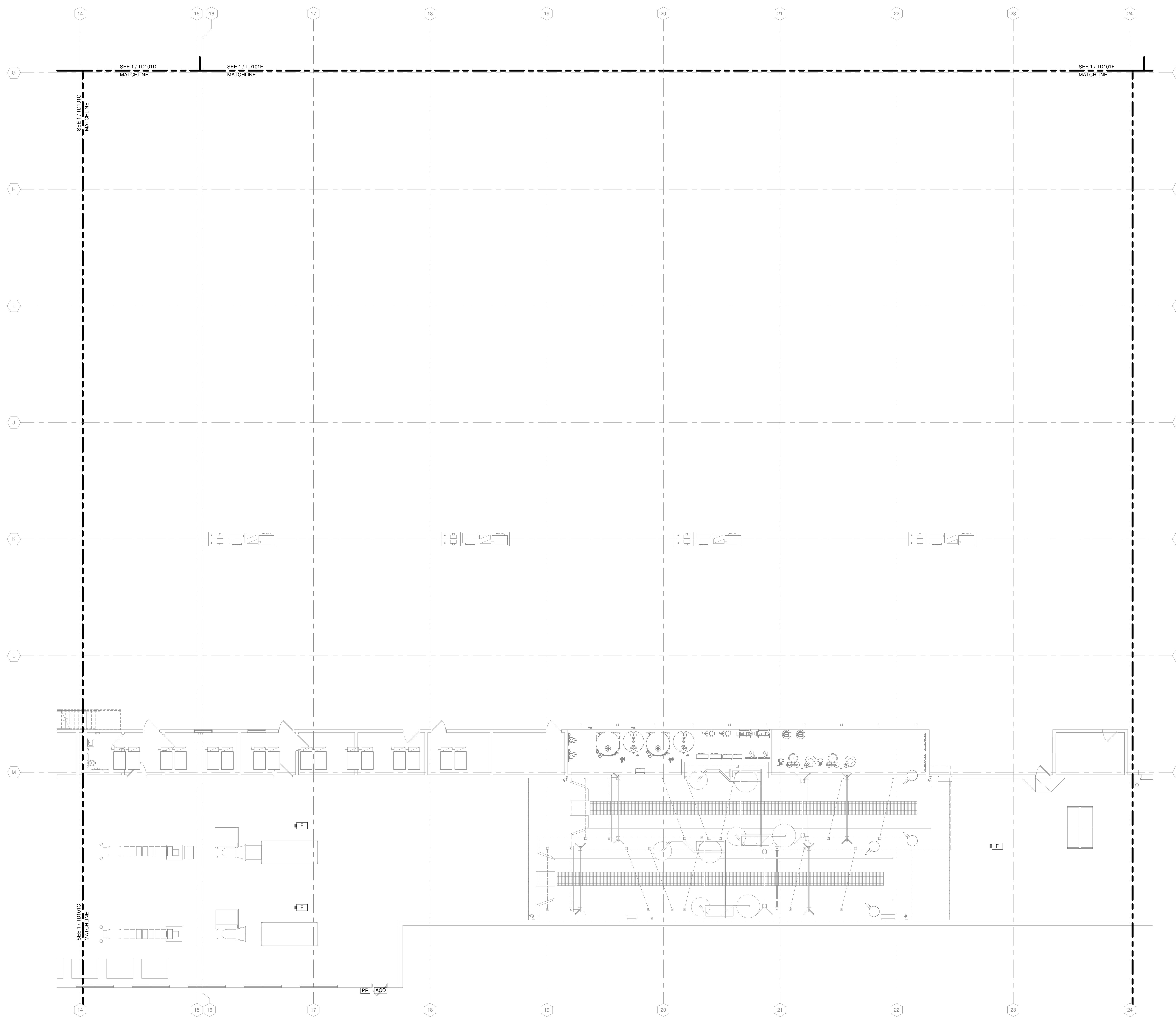
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SHEET CONTENTS  
FIRST FLOOR  
TECHNOLOGY  
SYSTEMS  
DEMOLITION PLAN -  
AREA E

SHEET NO.:

**TD101E**



TRUE PLAN  
NORTH NORTH  
**1** FIRST FLOOR DEMOLITION PLAN- AREA E  
1/8" = 1'-0"

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TECHNOLOGY DEMOLITION NOTES

1. ALL EXISTING TECHNOLOGY OUTLETS IN THIS AREA TO REMAIN UNLESS NOTED OTHERWISE.
2. TECHNOLOGY OUTLETS NOTED ON THIS SHEET TO BE DEMOLISHED SHALL HAVE ALL CABLING REMOVED BACK TO SOURCE. REMOVE ANY UNUSED RACEWAY BACK TO SOURCE.

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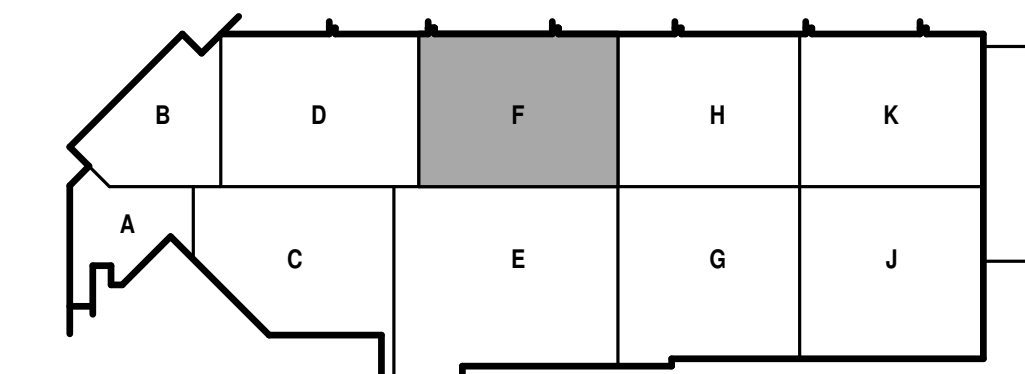
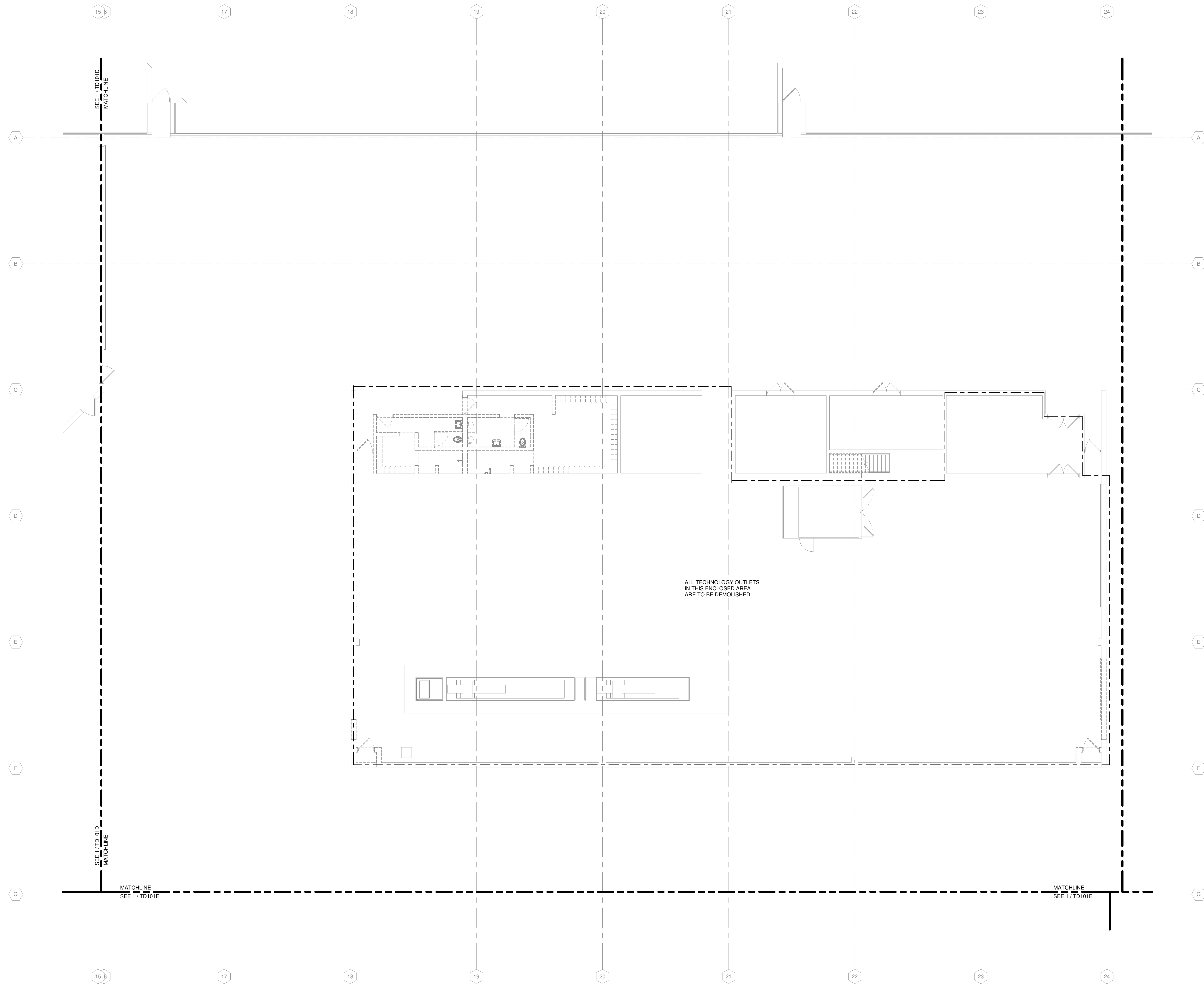
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SHEET CONTENTS  
FIRST FLOOR  
TECHNOLOGY  
SYSTEMS  
DEMOLITION PLAN - AREA F

SHEET NO.:

TD101F



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TRUE PLAN  
NORTH NORTH  
**1**  
FIRST FLOOR DEMOLITION PLAN- AREA F  
1/8" = 1'-0"

**TECHNOLOGY DEMOLITION NOTES**

1. ALL EXISTING TECHNOLOGY OUTLETS IN THIS AREA ARE TO REMAIN.

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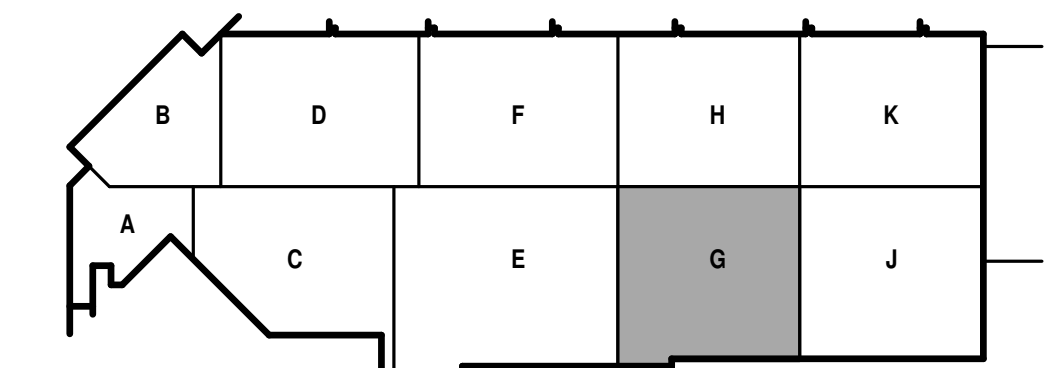
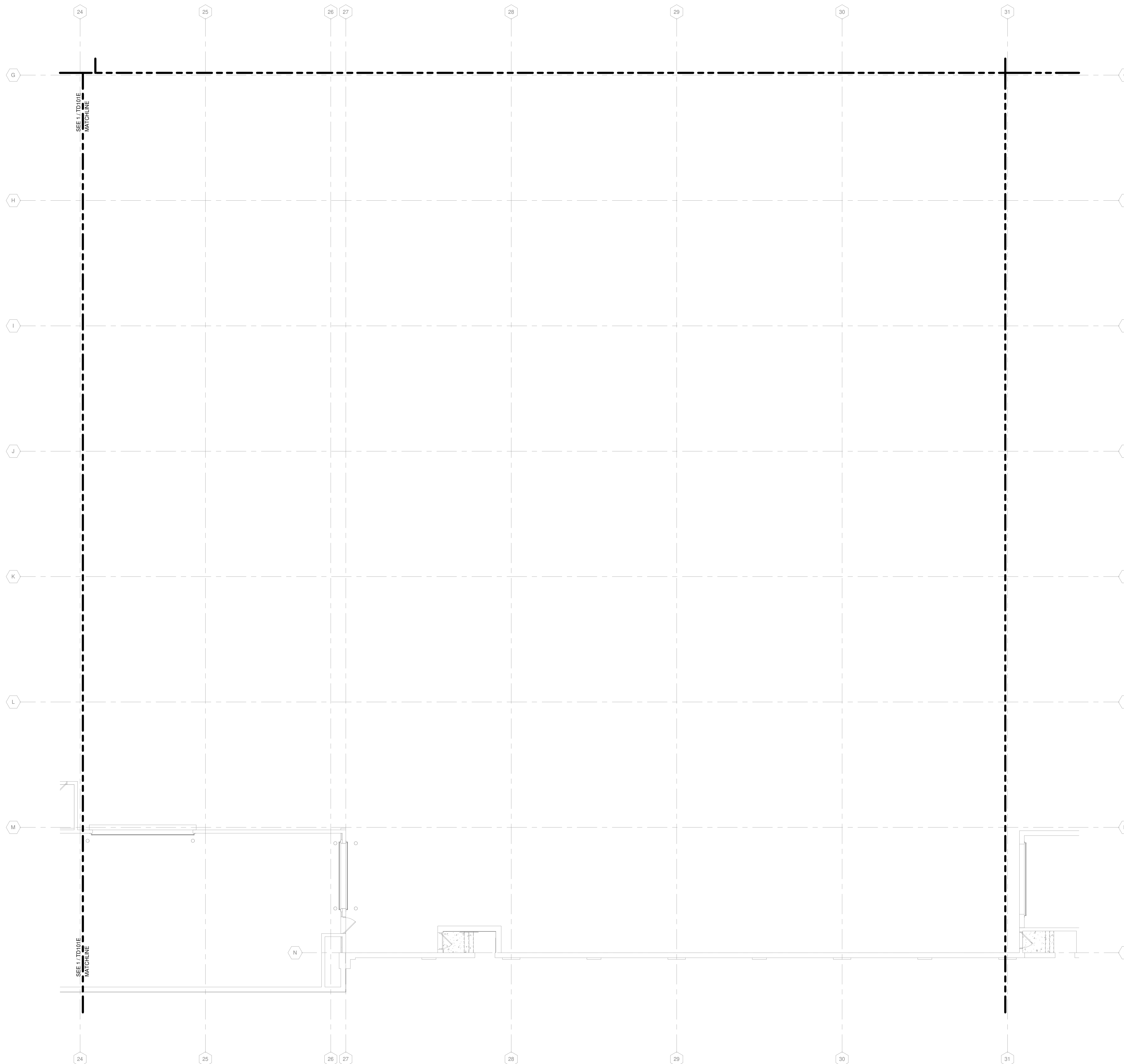
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SHEET CONTENTS  
FIRST FLOOR  
TECHNOLOGY  
SYSTEMS  
DEMOLITION PLAN -  
AREA G

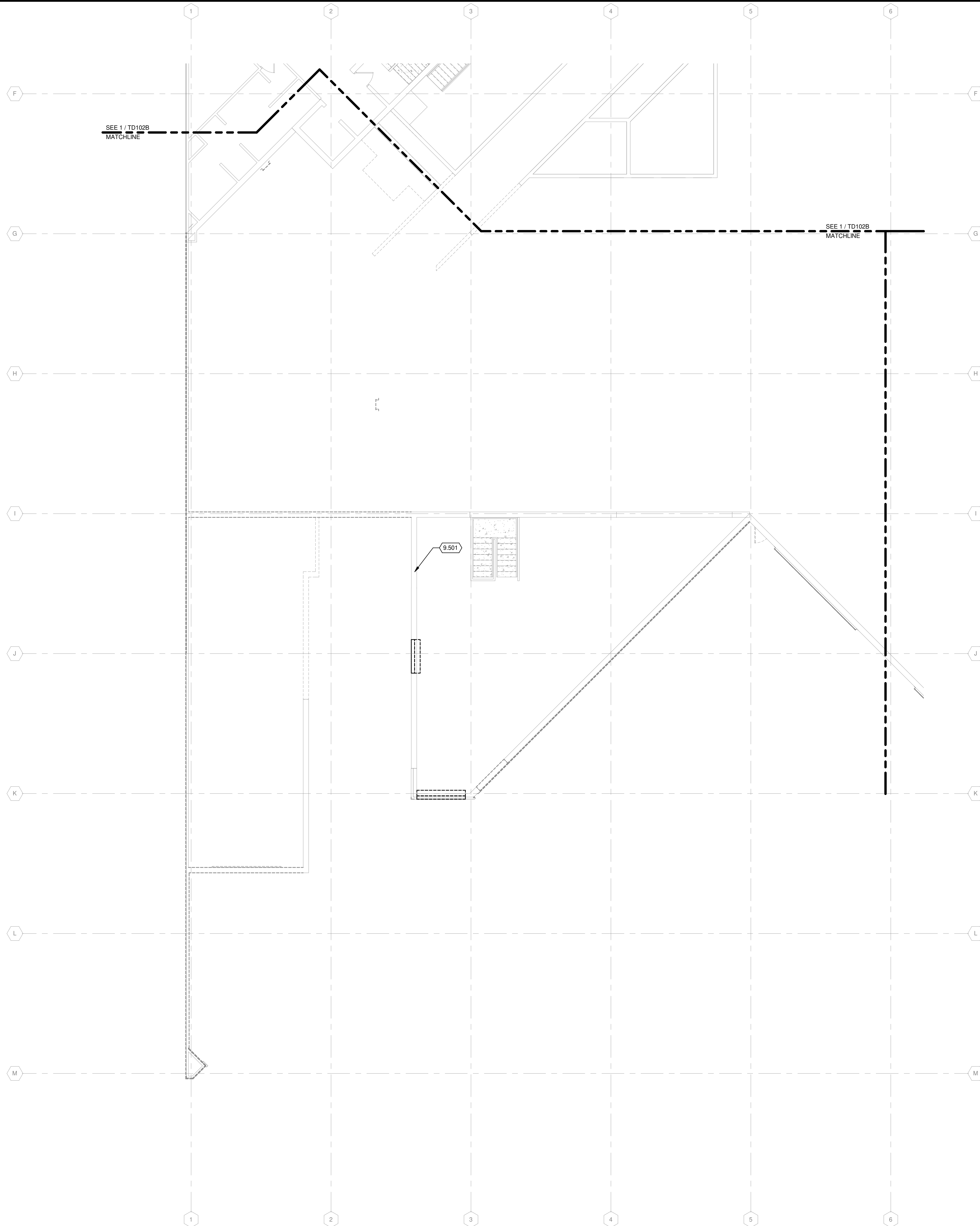
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**TD101G**



KEY PLAN

TRUE PLAN  
NORTH NORTH  
**1**  
FIRST FLOOR DEMOLITION PLAN- AREA G  
1/8" = 1'-0"



**TECHNOLOGY DEMOLITION NOTES**

1. ALL TECHNOLOGY OUTLETS IN THIS AREA ARE TO BE DEMOLISHED. REMOVE CABLING BACK TO SOURCE. REMOVE ANY UNUSED RACEWAY BACK TO SOURCE.

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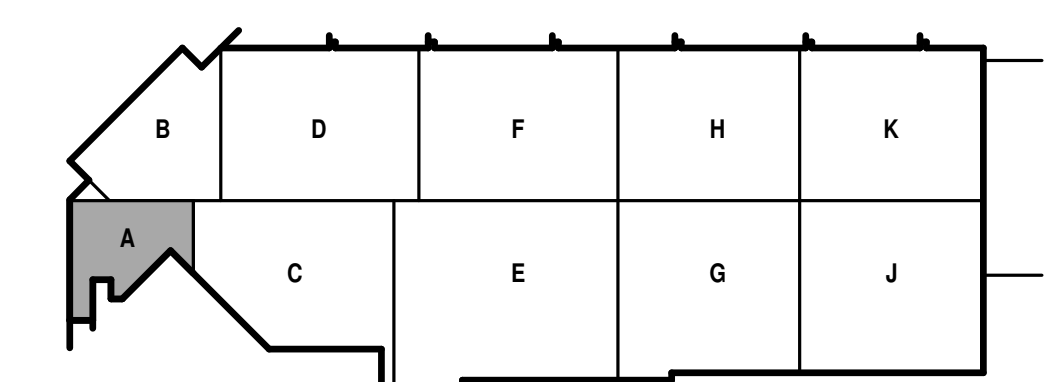
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SHEET CONTENTS  
SECOND FLOOR  
TECHNOLOGY  
SYSTEMS  
DEMOLITION PLAN -  
AREA A

SHEET NO.:



KEY PLAN

TRUE PLAN  
NORTH NORTH  
 **1**  
**SECOND FLOOR DEMOLITION PLAN - AREA A**  
1/8" = 1'-0"

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**TD102A**

TECHNOLOGY DEMOLITION NOTES

1. ALL EXISTING TECHNOLOGY OUTLETS IN THIS AREA ARE TO REMAIN.

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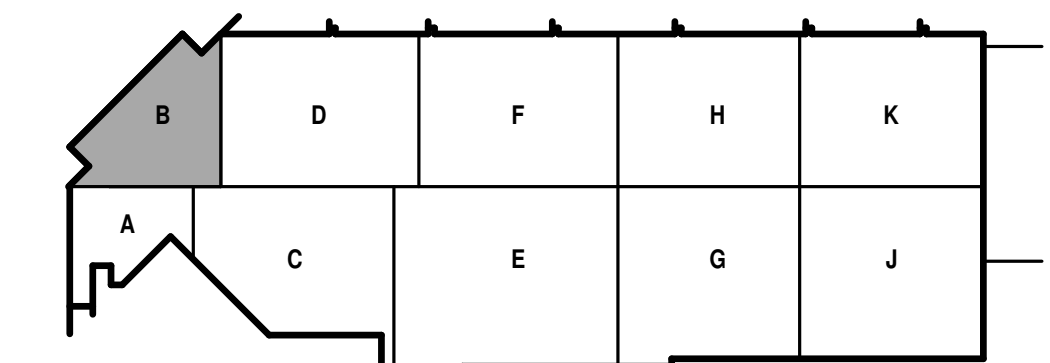
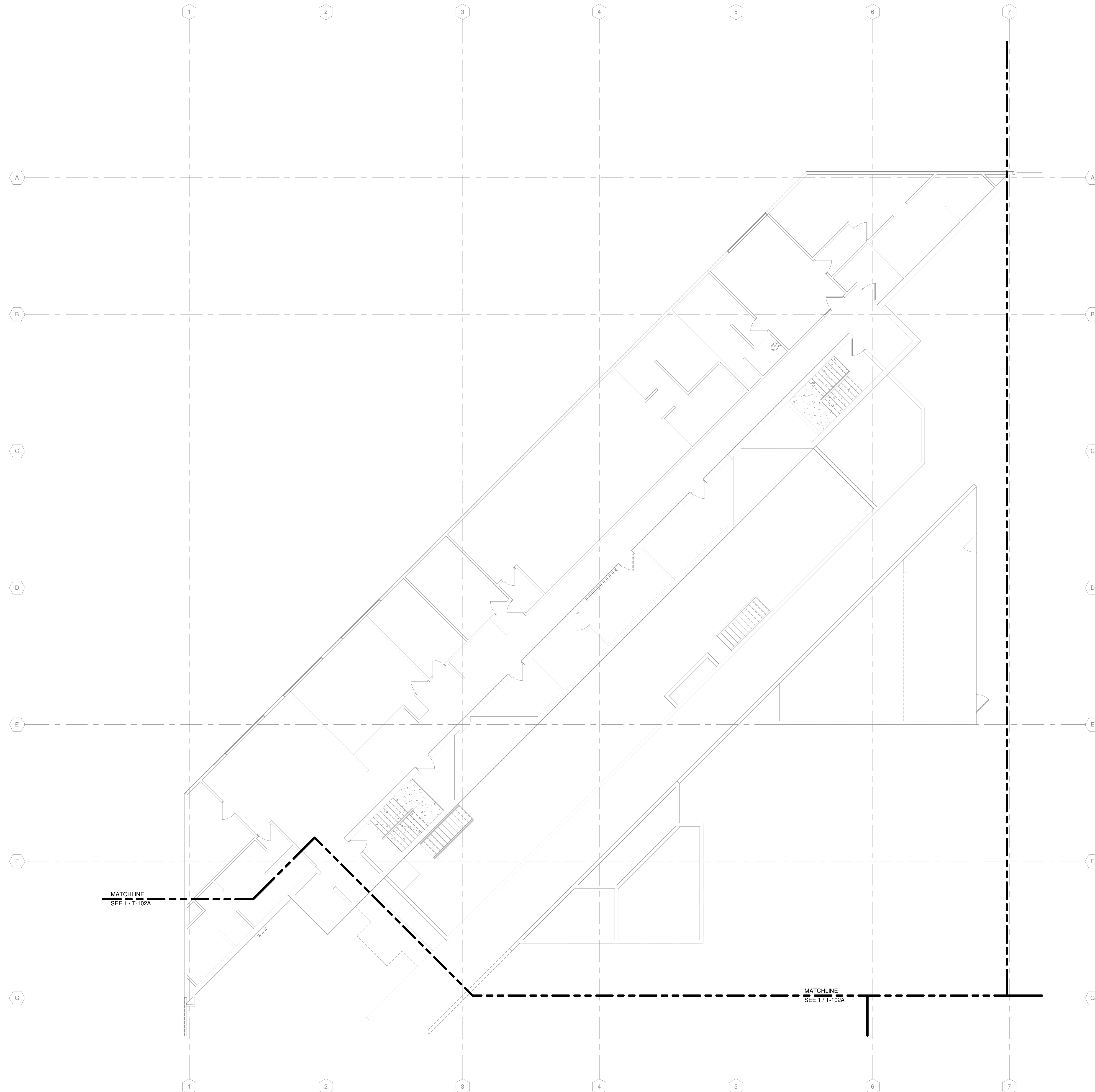
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SHEET CONTENTS  
SECOND FLOOR  
TECHNOLOGY  
SYSTEMS  
DEMOLITION PLAN -  
AREA B

SHEET NO.:

**TD102B**



KEY PLAN

TRUE PLAN  
NORTH NORTH  
**1**  
SECOND FLOOR DEMOLITION PLAN - AREA B  
1/8" = 1'-0"

**TECHNOLOGY DEMOLITION NOTES**

1. ALL EXISTING TECHNOLOGY OUTLETS IN THIS AREA TO REMAIN UNLESS NOTED OTHERWISE.
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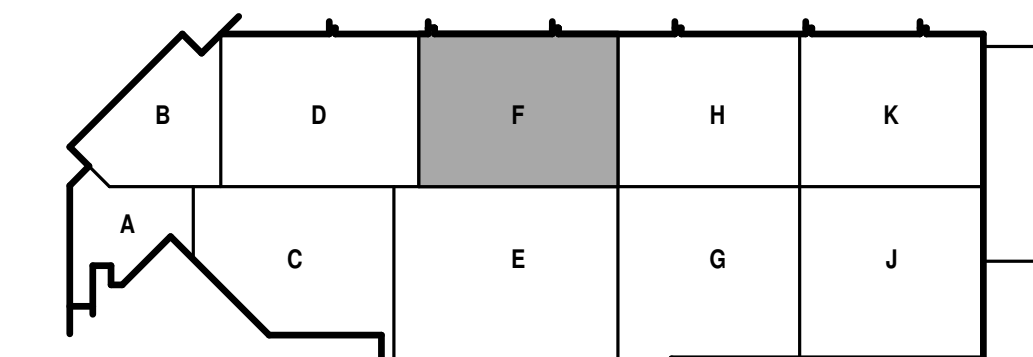
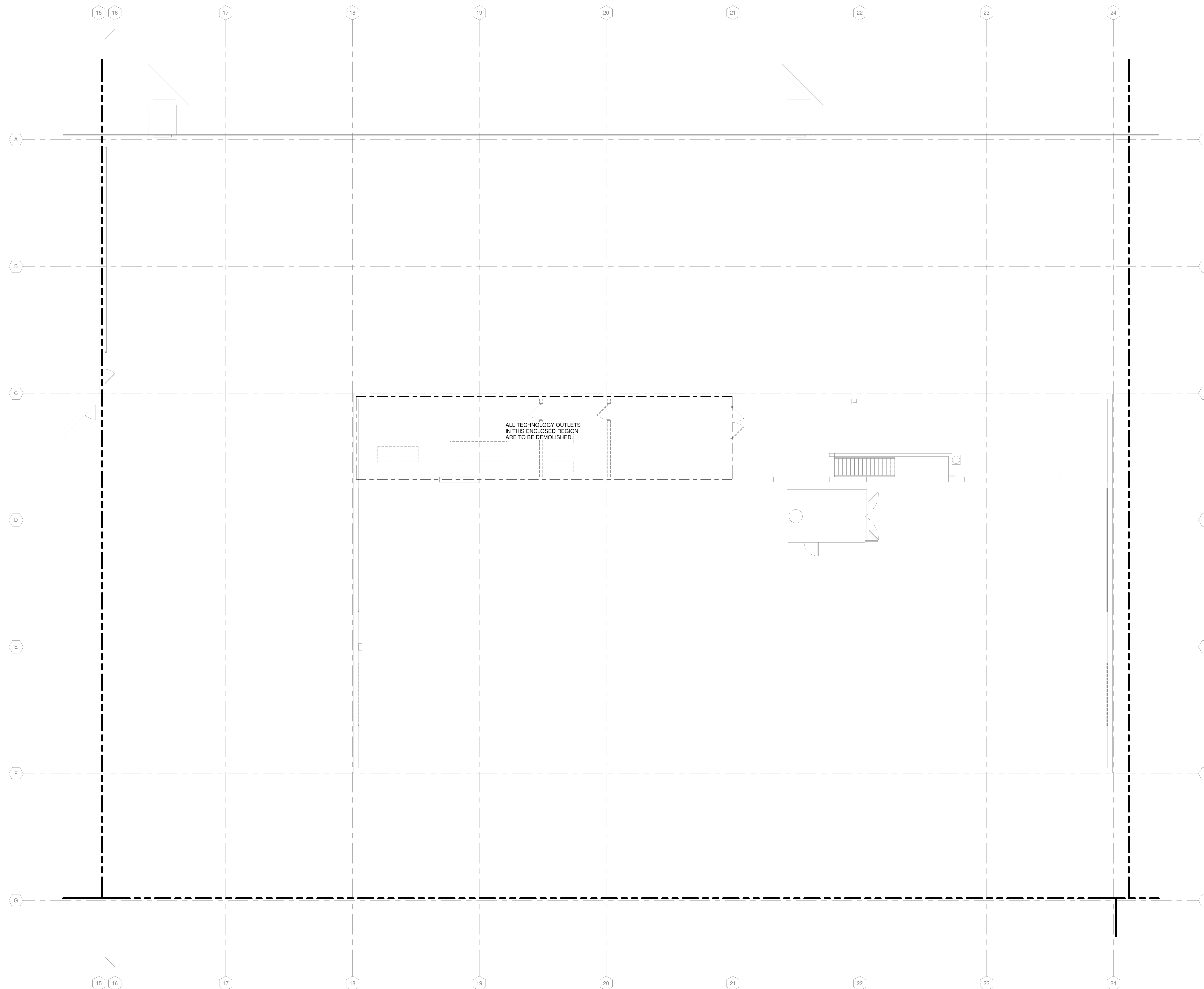
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SHEET CONTENTS  
SECOND FLOOR  
TECHNOLOGY  
SYSTEMS  
DEMOLITION PLAN -  
AREA F

SHEET NO.:

**TD102F**



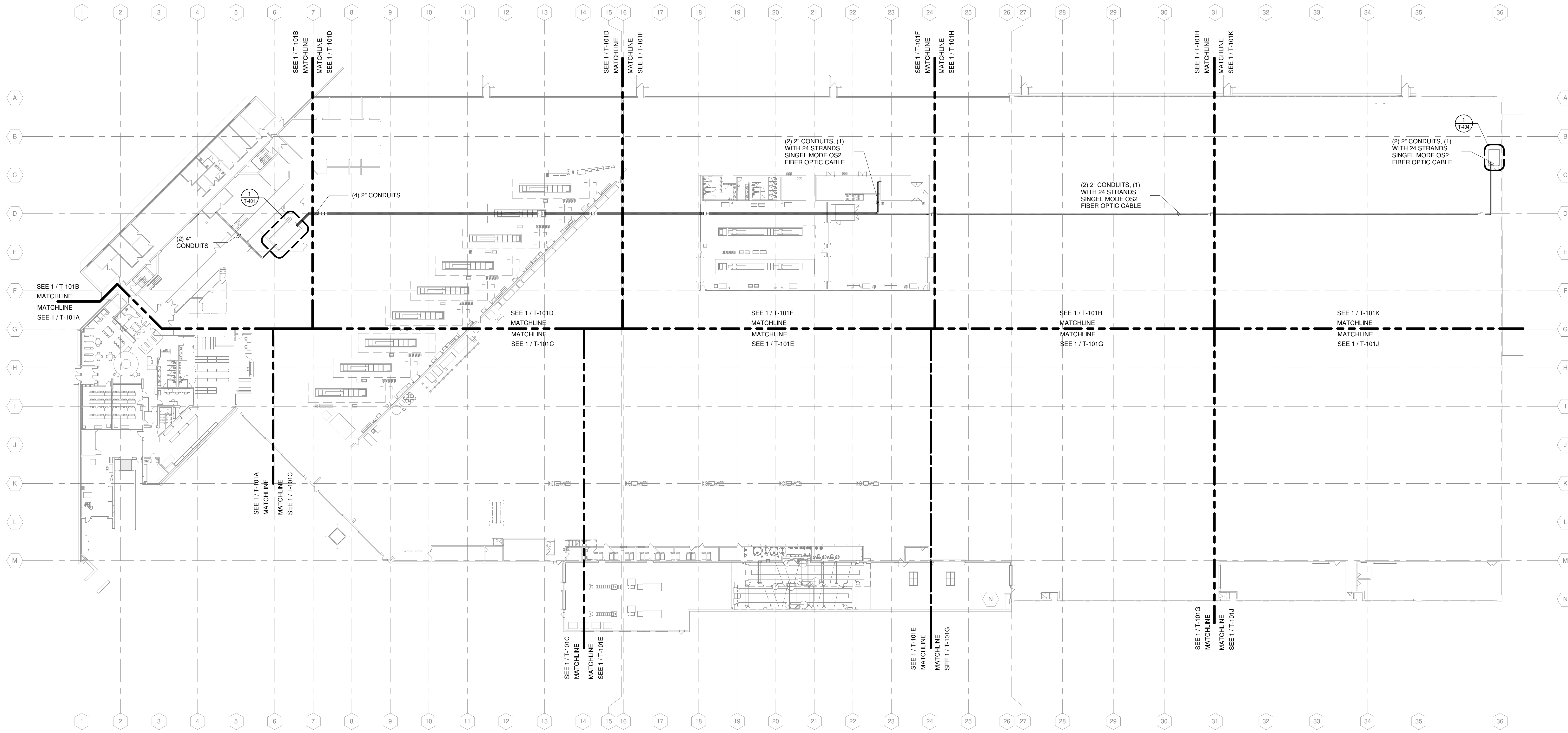
KEY PLAN

TRUE PLAN  
NORTH NORTH  
**1**  
**SECOND FLOOR DEMOLITION PLAN - AREA F**  
1/8" = 1'-0"

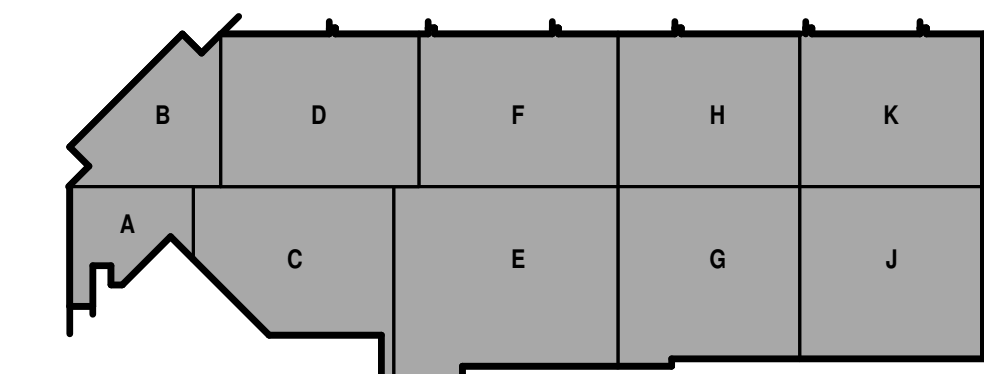
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COMMUNICATIONS GENERAL NOTES

- REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
- REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
- ALTERNATE NO. 1. SEE SPECIFICATION 012200 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM, LOCKER ROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.
- NEW 48 STRAND SINGLE MODE (OS2) FIBER OPTIC CABLE INSTALLED FROM EXISTING HAND HOLE THAT IS EXTERIOR TO THE BUILDING. IT RESIDES NEXT TO THE PUBLIC SIDEWALK THAT IS IN ALIGNMENT DIRECTLY OFF COLUMN LINE 4.



TRUE PLAN  
NORTH NORTH  
**1** OVERALL FIRST FLOOR COMMUNICATIONS PLAN  
1" = 30'-0"



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SHEET CONTENTS  
OVERALL FIRST FLOOR COMMUNICATIONS PLAN

SHEET NO.:

**T-100**

COMMUNICATIONS GENERAL NOTES

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
3. ALL TECHNOLOGY OUTLETS IN THIS AREA TO TERMINATE INTO DATA 1228.
4. ALTERNATE NO. 1, SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

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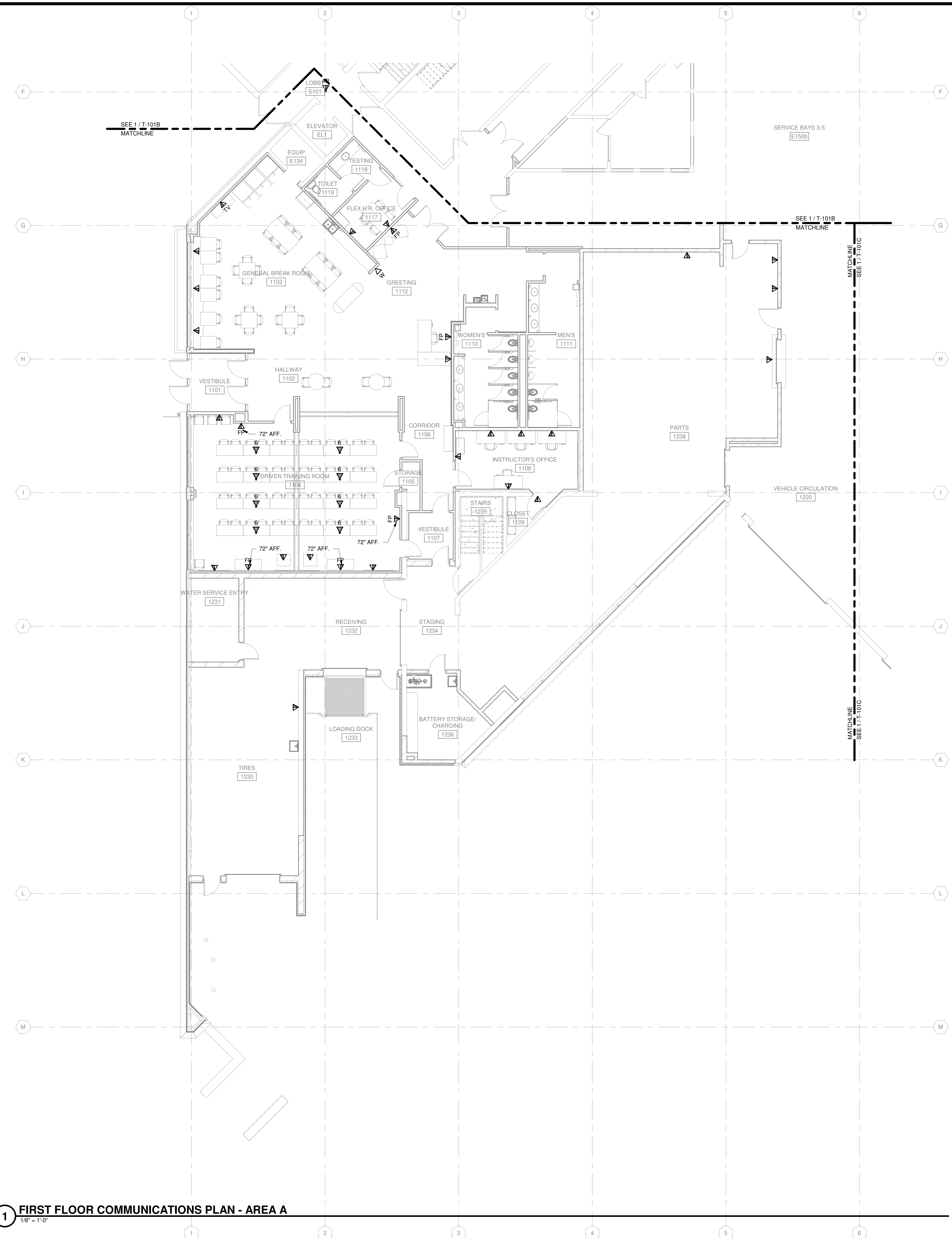
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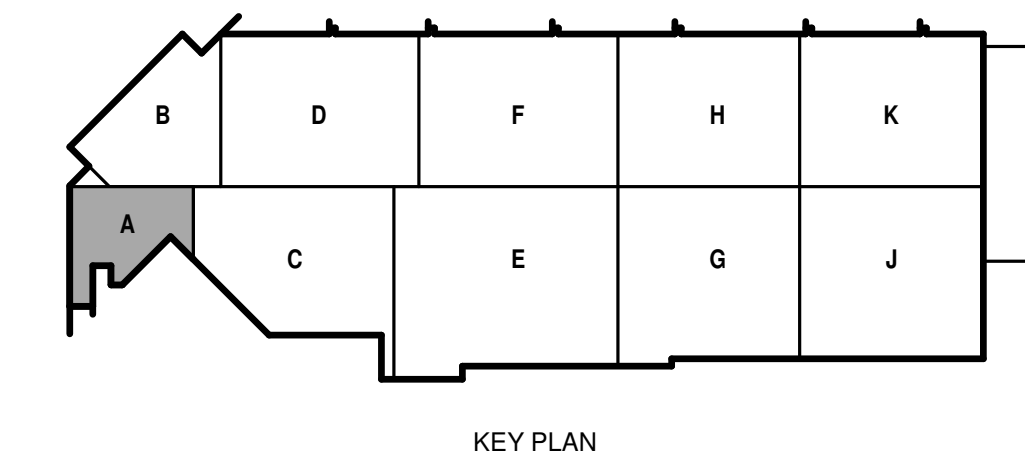
SHEET CONTENTS  
FIRST FLOOR  
COMMUNICATIONS  
PLAN - AREA A

SHEET NO.:

**T-101A**



TRUE PLAN  
NORTH NORTH  
**1** FIRST FLOOR COMMUNICATIONS PLAN - AREA A  
1/8" = 1'-0"



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COMMUNICATIONS GENERAL NOTES

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
3. ALL TECHNOLOGY OUTLETS IN THIS AREA TO TERMINATE INTO DATA 1228.
4. ALTERNATE NO. 1, SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

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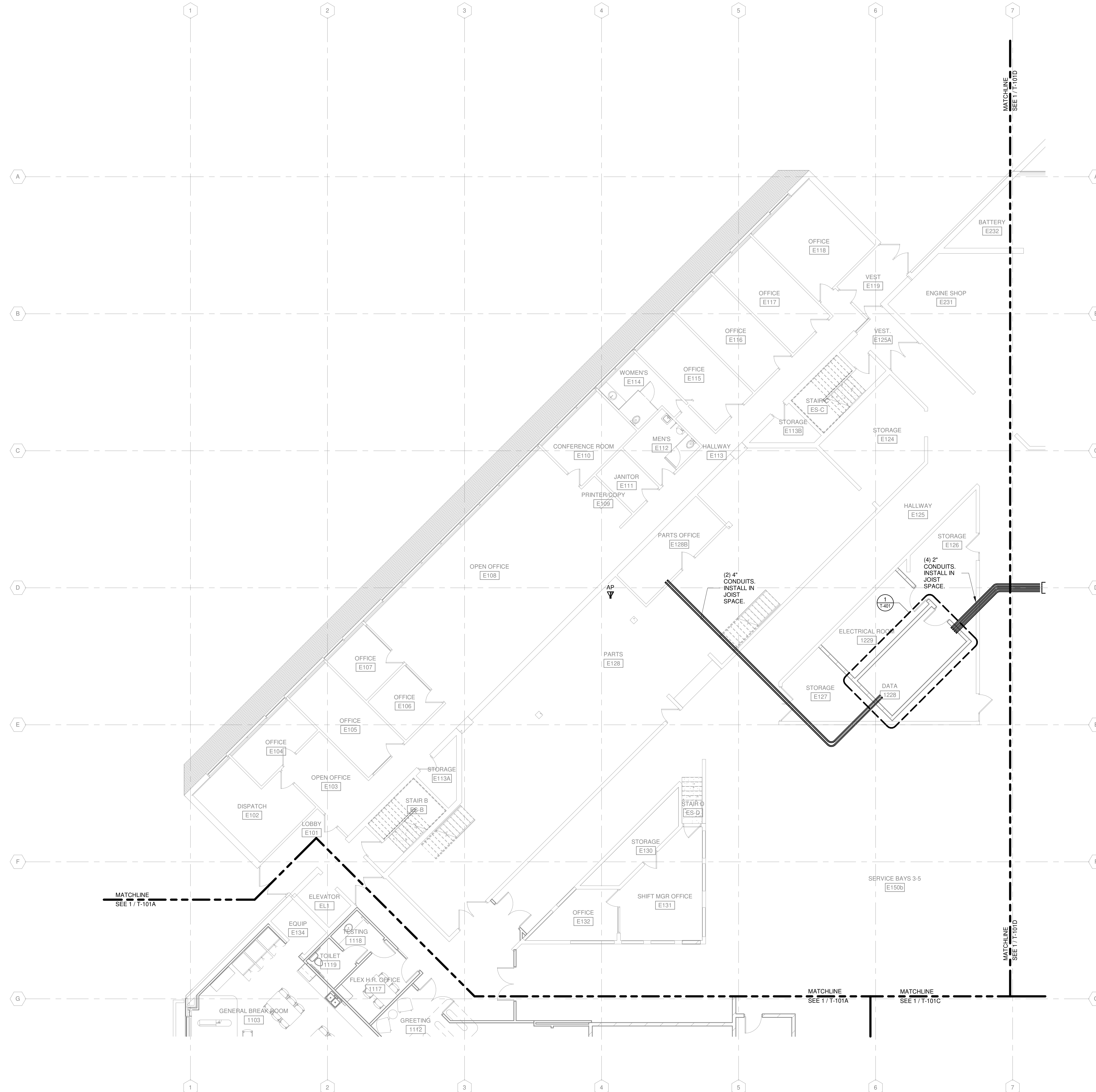
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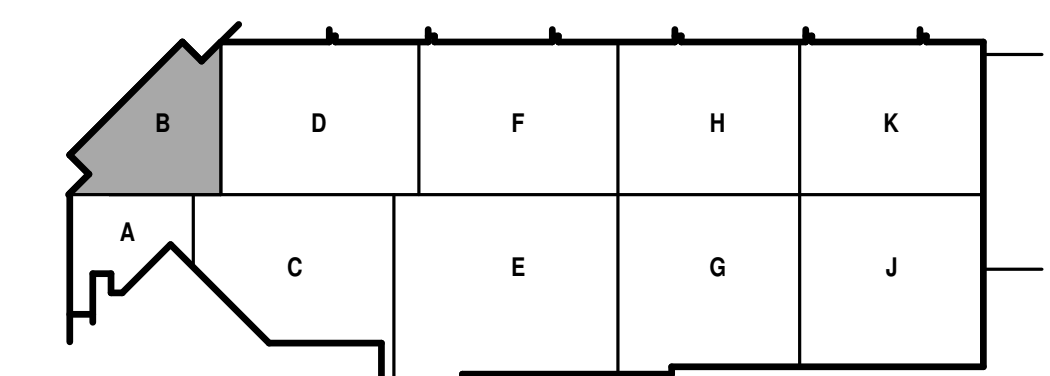
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FIRST FLOOR  
COMMUNICATIONS  
PLAN - AREA B

SHEET NO.:

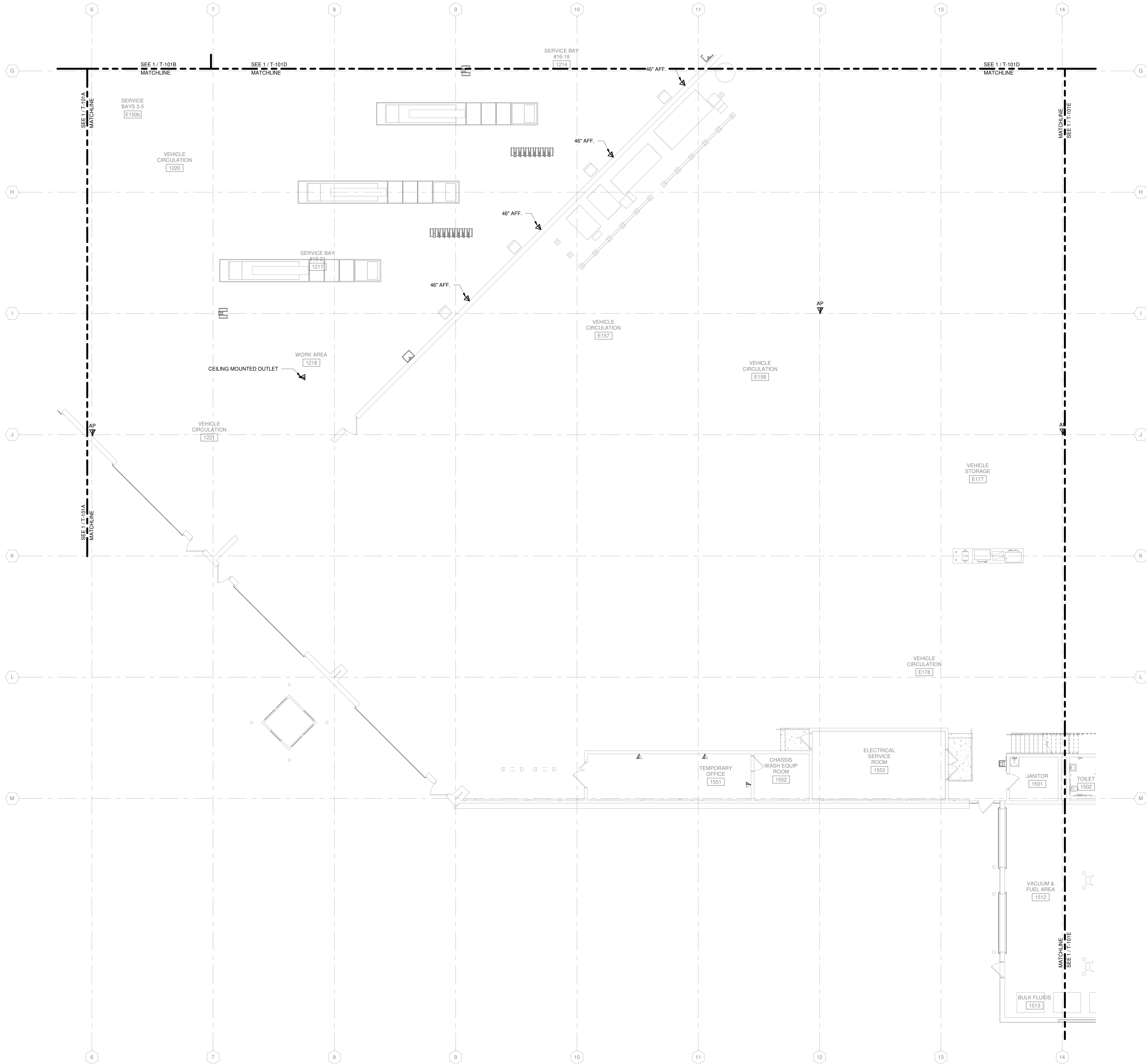
**T-101B**



TRUE PLAN  
NORTH NORTH  
**1**  
FIRST FLOOR COMMUNICATIONS PLAN - AREA B  
1/8" = 1'-0"



KEY PLAN



**COMMUNICATIONS GENERAL NOTES**

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
3. ALL TECHNOLOGY OUTLETS IN THIS AREA TO TERMINATE INTO DATA 1228.
4. ALTERNATE NO. 1. SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

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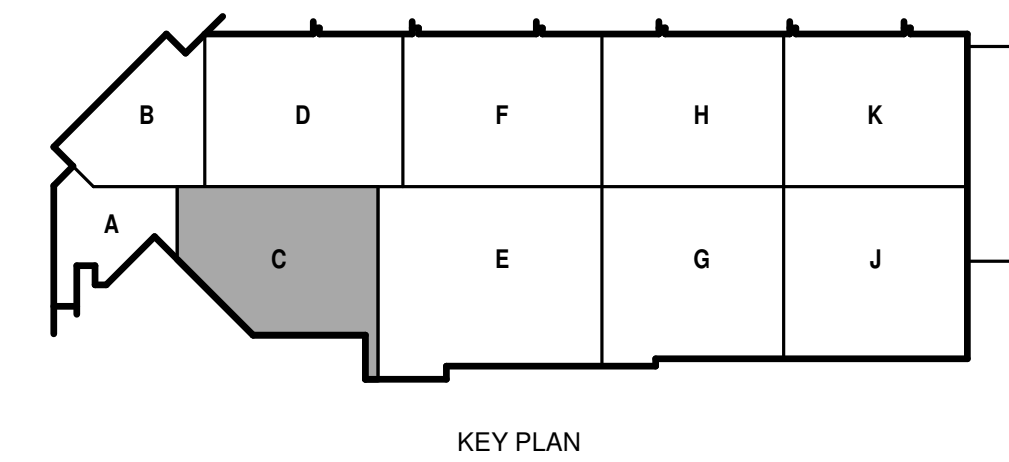
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SHEET CONTENTS  
FIRST FLOOR COMMUNICATIONS PLAN - AREA C

SHEET NO.:

**T-101C**



TRUE PLAN NORTH NORTH  
**1**  
1/8" = 1'-0"  
**FIRST FLOOR COMMUNICATIONS PLAN - AREA C**

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COMMUNICATIONS GENERAL NOTES

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
3. ALL TECHNOLOGY OUTLETS IN THIS AREA TO TERMINATE INTO DATA 1228.
4. ALTERNATE NO. 1, SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

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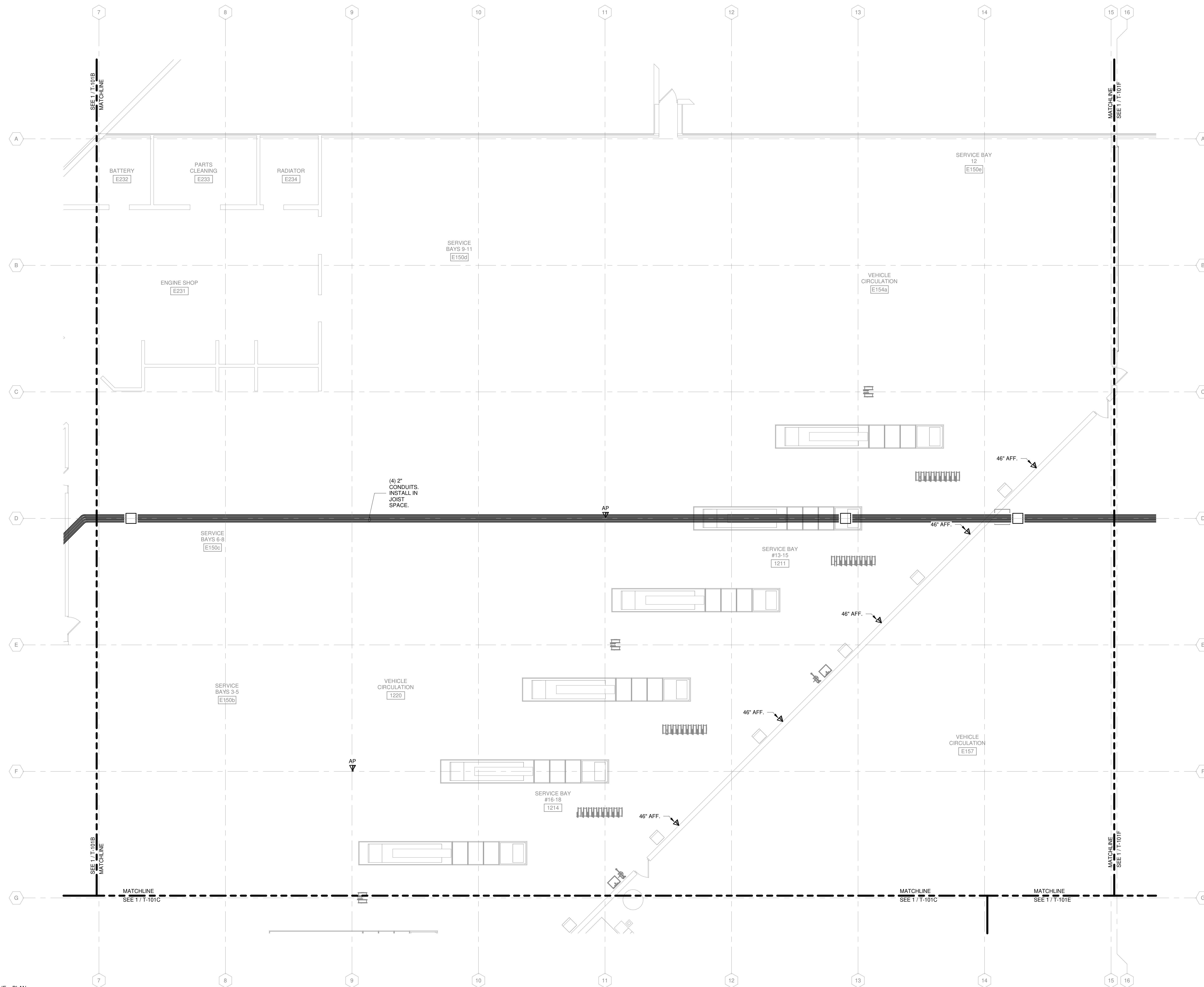
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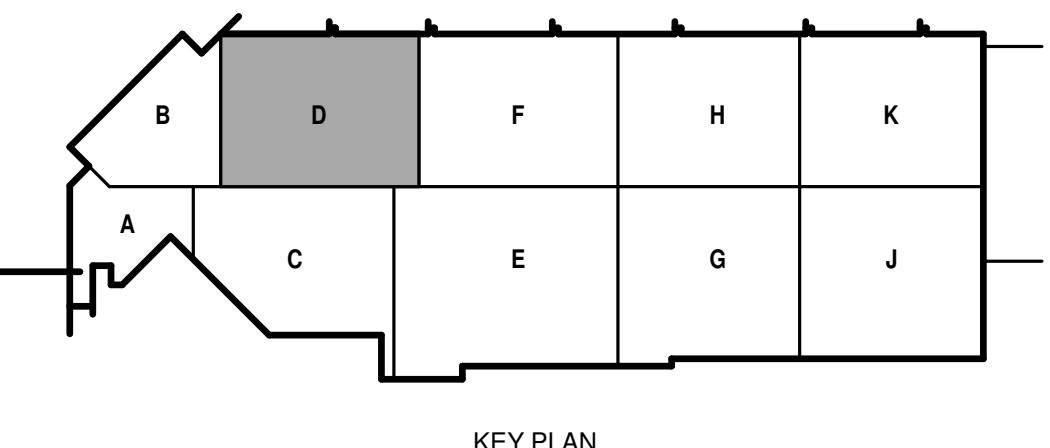
SHEET CONTENTS  
FIRST FLOOR  
COMMUNICATIONS  
PLAN AREA D

SHEET NO.:

**T-101D**



TRUE PLAN  
NORTH NORTH  
**1** FIRST FLOOR COMMUNICATIONS PLAN - AREA D  
1/8" = 1'-0"



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DRIVER FACILITY IMPROVEMENTS  
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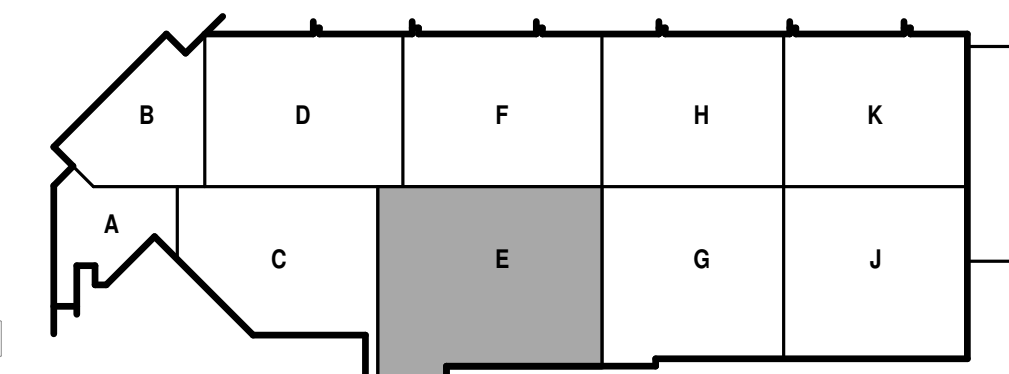
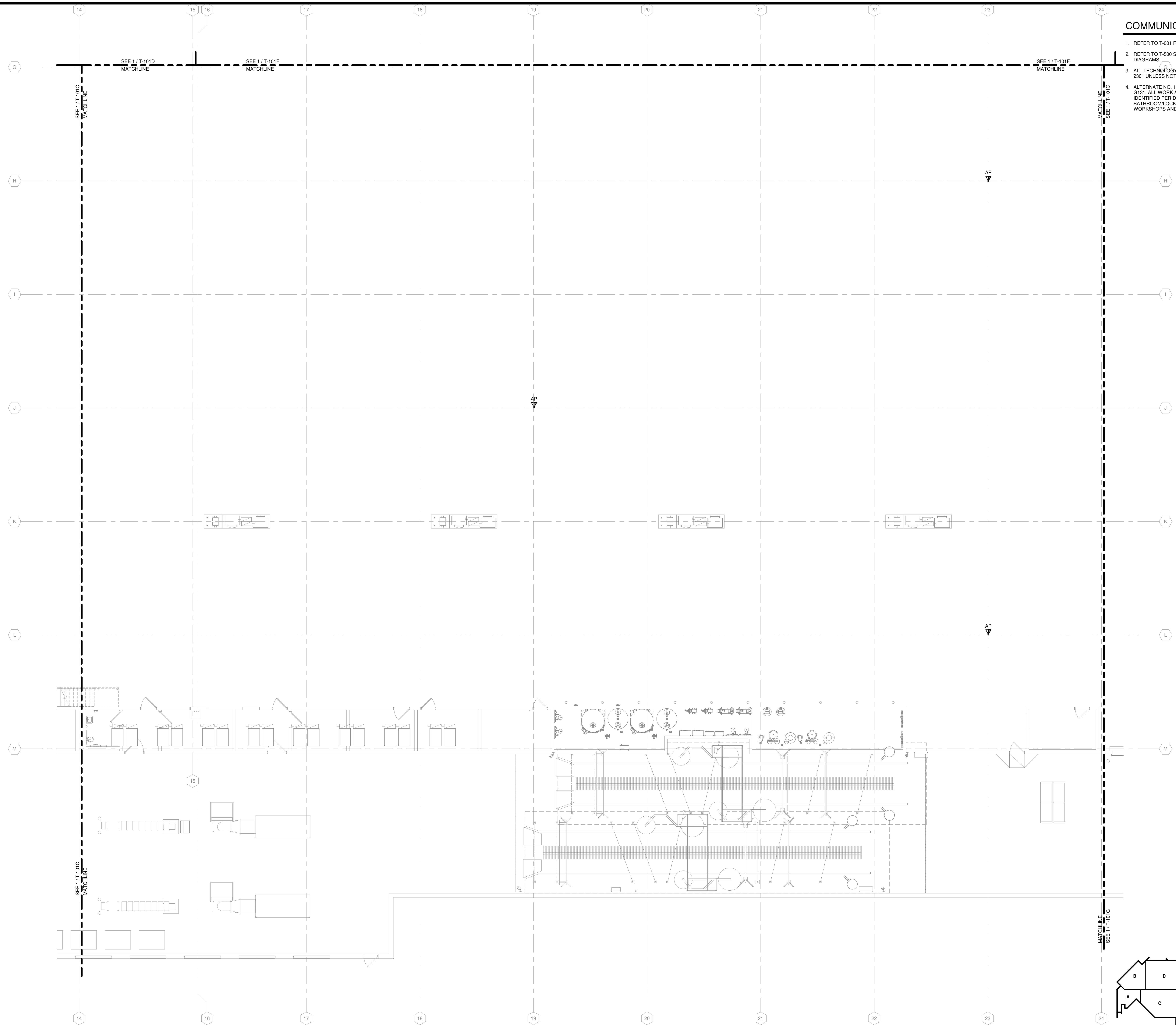
SHEET CONTENTS  
FIRST FLOOR  
COMMUNICATIONS  
PLAN AREA E

SHEET NO.:

**T-101E**

**COMMUNICATIONS GENERAL NOTES**

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
3. ALL TECHNOLOGY OUTLETS IN THIS AREA TO TERMINATE INTO ELECTRICAL 2301 UNLESS NOTED OTHERWISE.
4. ALTERNATE NO. 1. SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.



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**COMMUNICATIONS GENERAL NOTES**

- REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
- REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
- ALL TECHNOLOGY OUTLETS IN THIS AREA TO TERMINATE INTO ELECTRICAL 2301 UNLESS NOTED OTHERWISE.
- ALTERNATE NO. 1. SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM, LOCKER ROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

**KEYED NOTES**

- 9.701 CONDUITS TO TERMINATE IN 2ND FLOOR ELECTRICAL ROOM.



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MADISON, WI 53703**

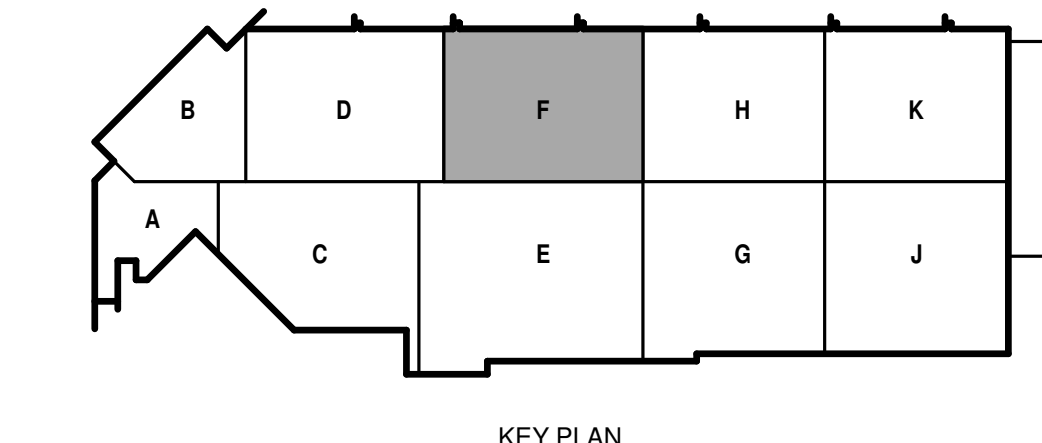
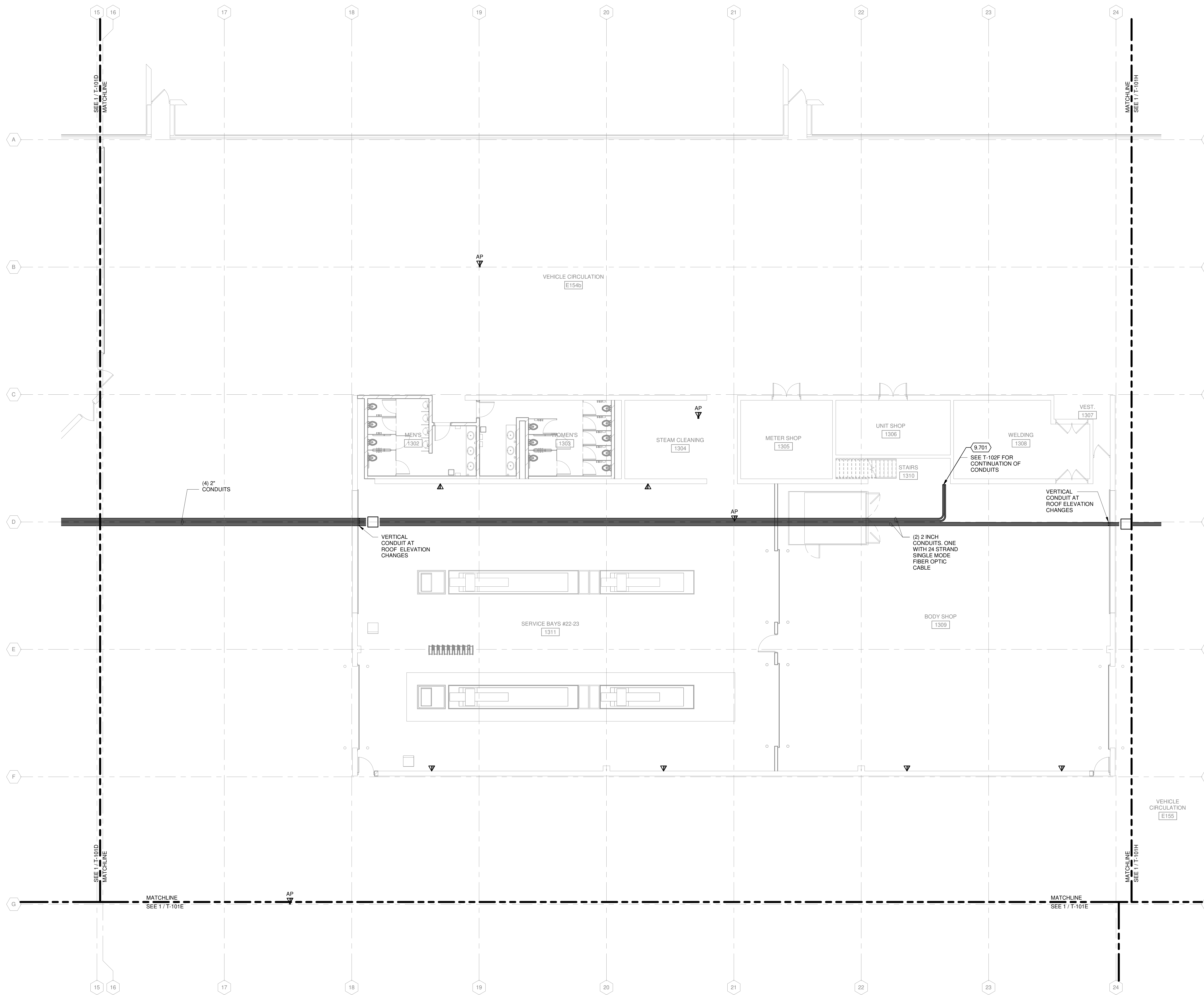
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SHEET CONTENTS  
FIRST FLOOR  
COMMUNICATIONS  
PLAN - AREA F

SHEET NO.:

**T-101F**



TRUE PLAN  
NORTH NORTH  
**1** **FIRST FLOOR COMMUNICATIONS PLAN - AREA F**  
1/8" = 1'-0"

**COMMUNICATIONS GENERAL NOTES**

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
3. ALL TECHNOLOGY OUTLETS IN THIS AREA TO TERMINATE INTO ELECTRICAL 2001 UNLESS NOTED OTHERWISE.
4. ALTERNATE NO. 1: SEE SPECIFICATION 012200 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

**KEYED NOTES**

9.704 THIS OUTLET TO BE TERMINATED IN SERVER ROOM 1508.

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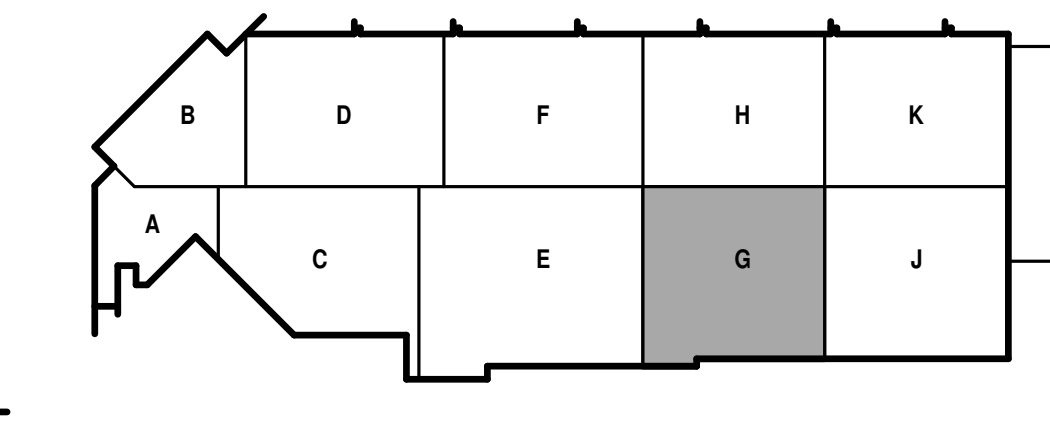
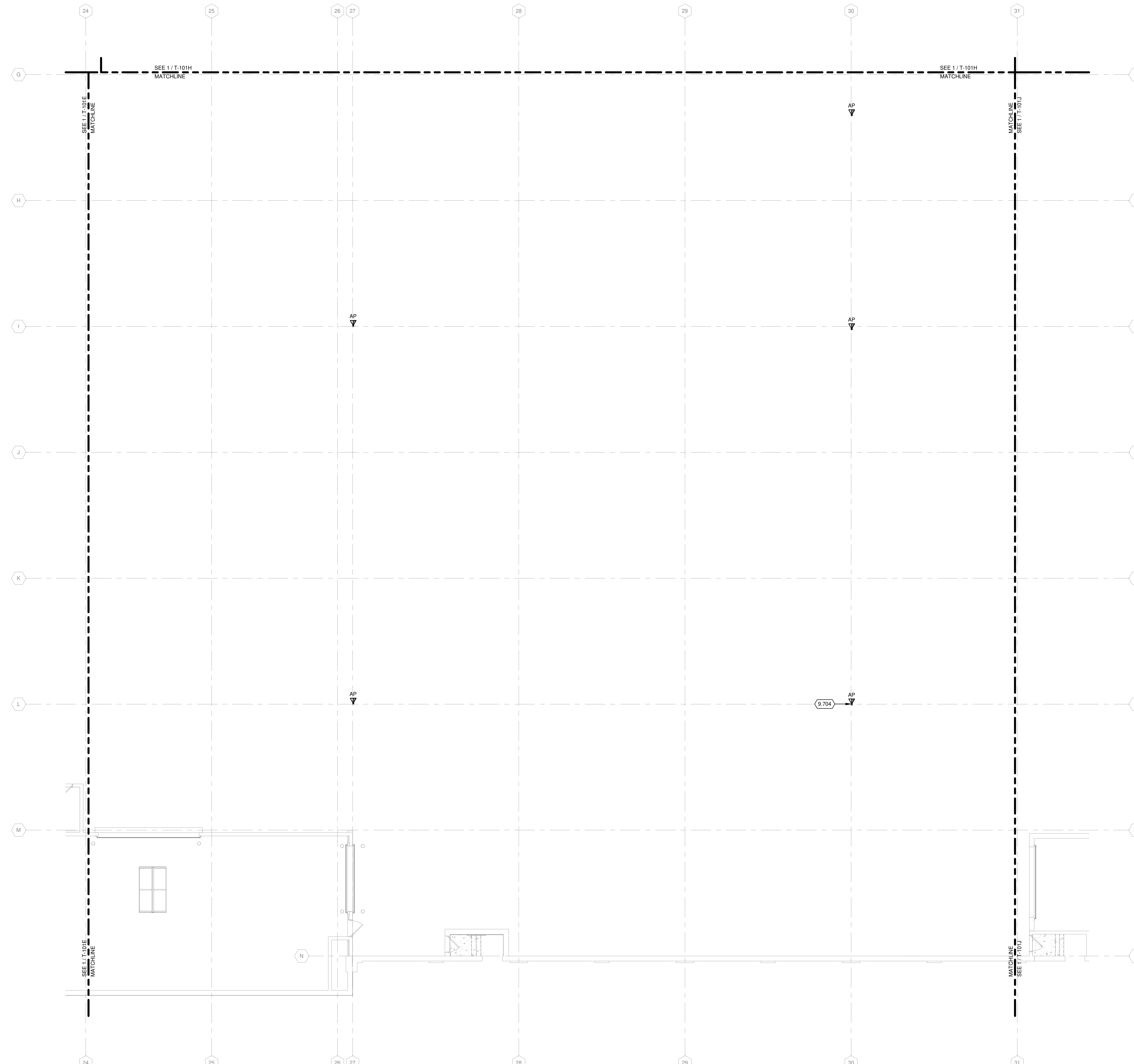
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SHEET CONTENTS  
FIRST FLOOR COMMUNICATIONS  
PLAN AREA G

SHEET NO.:

**T-101G**



TRUE PLAN NORTH NORTH  
**1** FIRST FLOOR COMMUNICATIONS PLAN - AREA G  
1/8" = 1'-0"

COMMUNICATIONS GENERAL NOTES

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
3. ALL TECHNOLOGY OUTLETS IN THIS AREA TO TERMINATE INTO ELECTRICAL 2301 UNLESS NOTED OTHERWISE.
4. ALTERNATE NO. 1, SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

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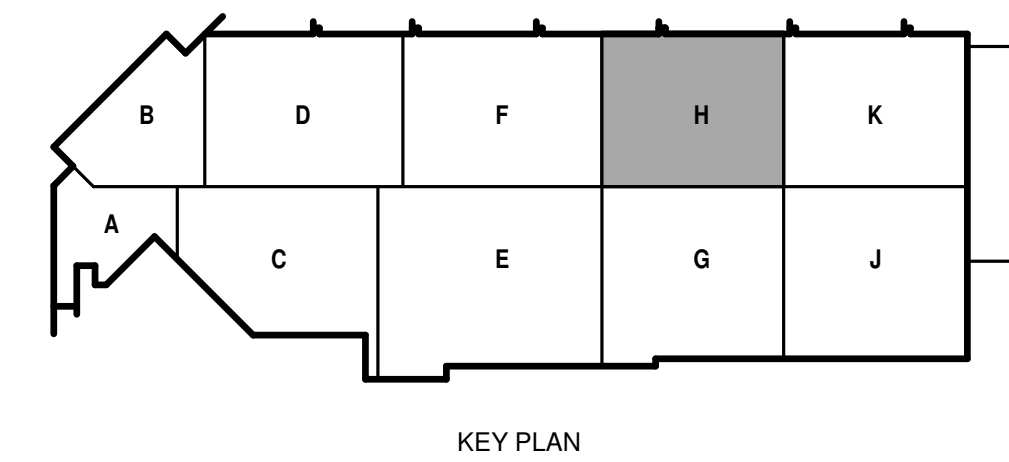
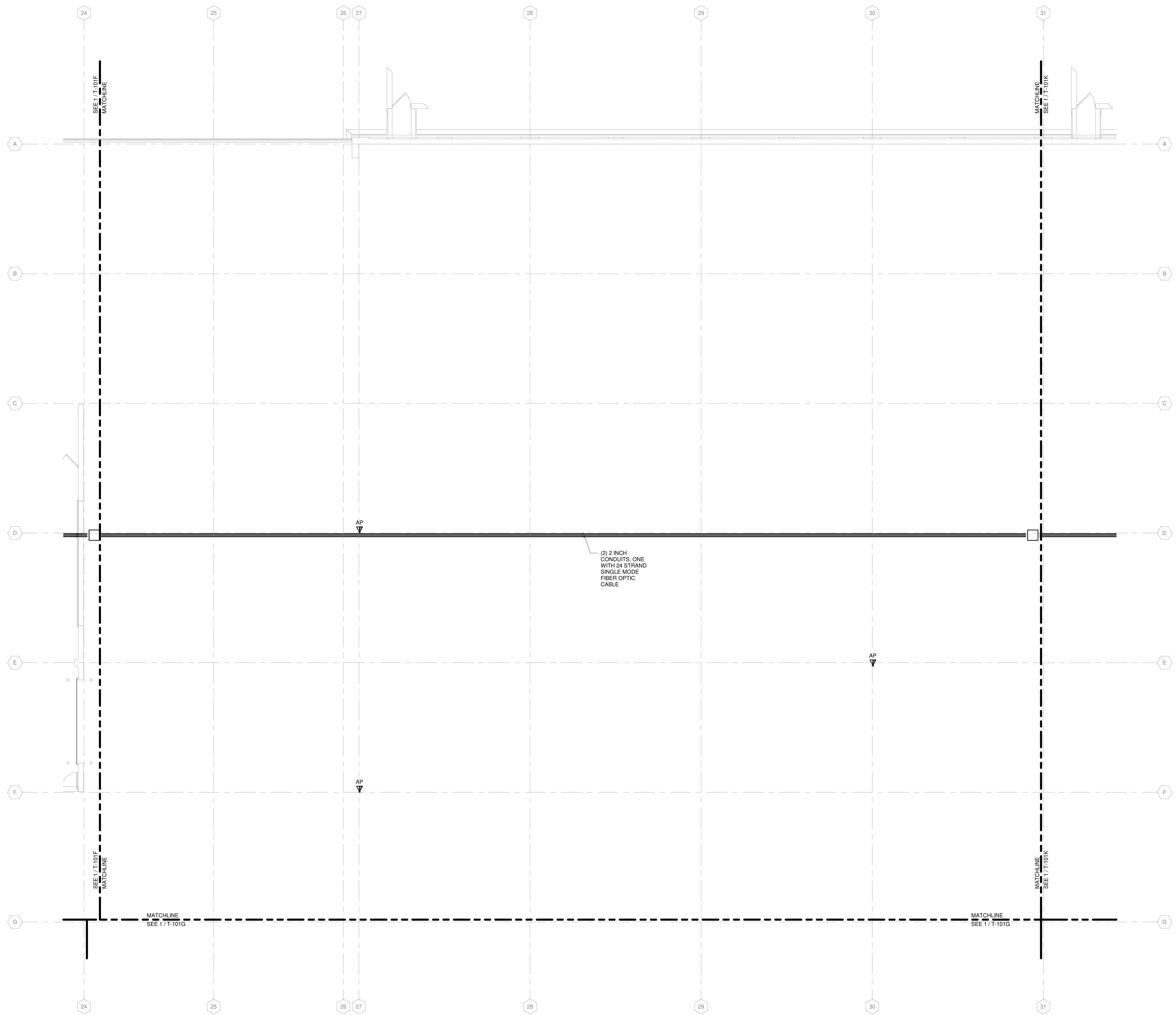
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SHEET CONTENTS  
 FIRST FLOOR COMMUNICATIONS PLAN AREA H

SHEET NO.:

**T-101H**



TRUE PLAN NORTH NORTH  
**1**  
**FIRST FLOOR COMMUNICATIONS PLAN - AREA H**  
 1/8" = 1'-0"

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COMMUNICATIONS GENERAL NOTES

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
3. ALL TECHNOLOGY OUTLETS IN THIS AREA TO TERMINATE INTO COMM 1701 UNLESS NOTED OTHERWISE.
4. ALTERNATE NO. 1. SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

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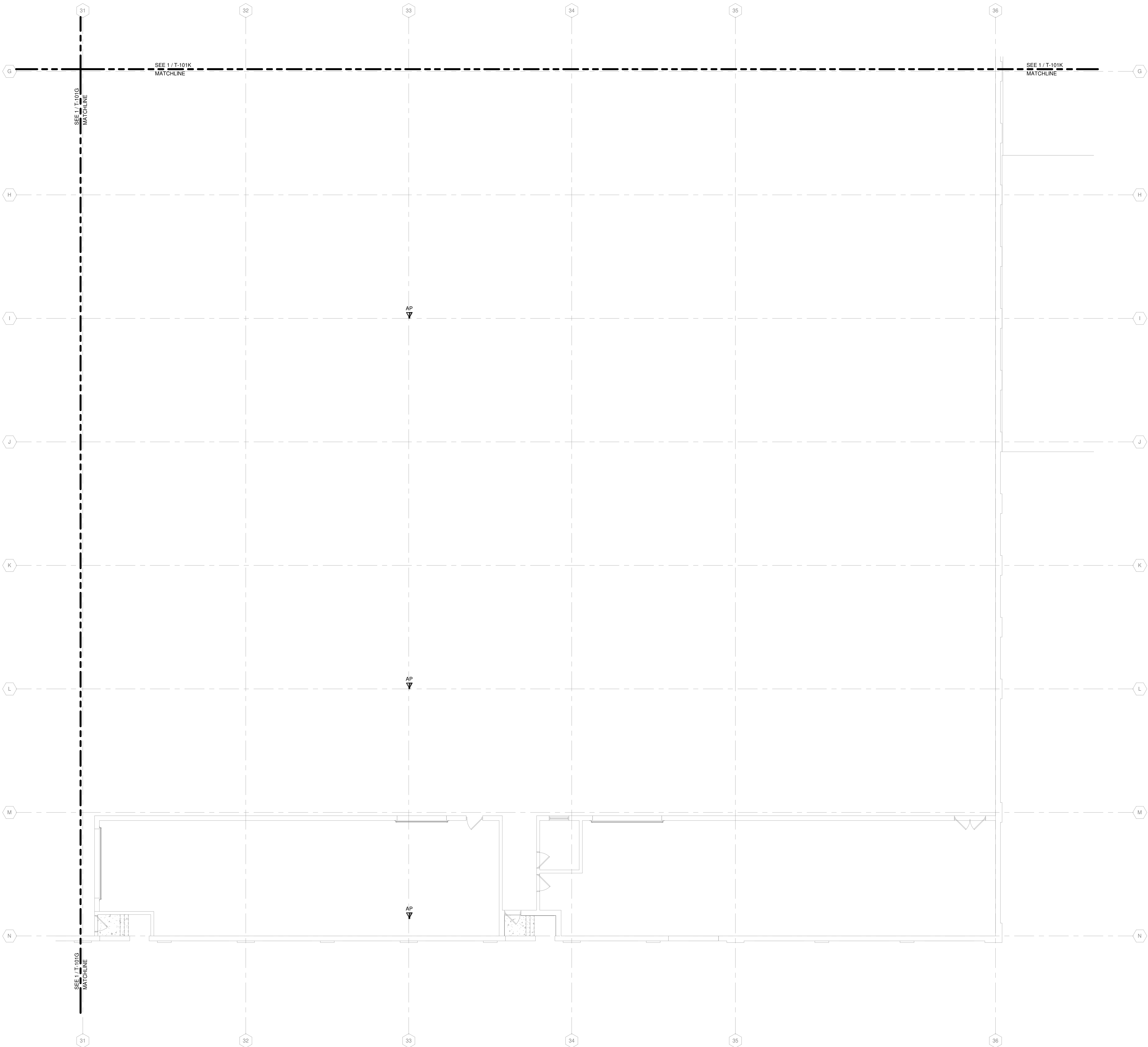
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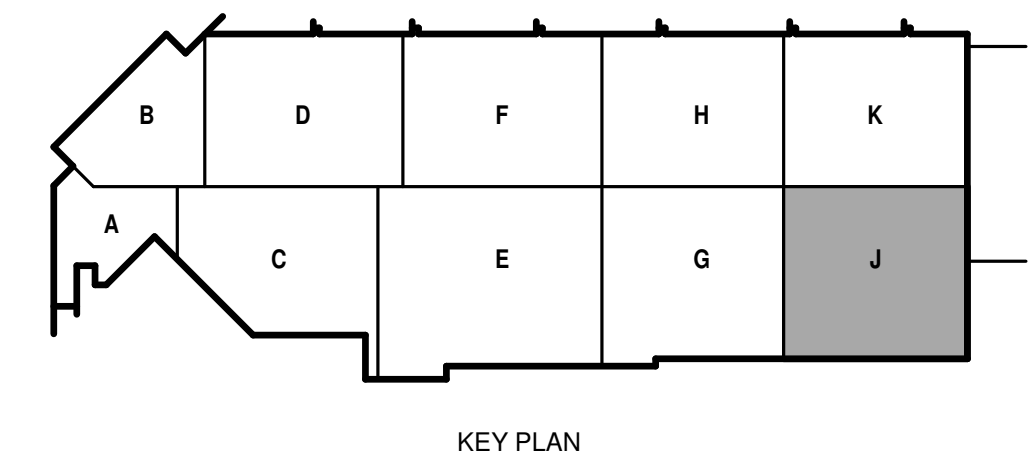
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FIRST FLOOR COMMUNICATIONS PLAN AREA J

SHEET NO.:

T-101J



TRUE PLAN  
NORTH NORTH  
1  
FIRST FLOOR COMMUNICATIONS PLAN - AREA J  
1/8" = 1'-0"





COMMUNICATIONS GENERAL NOTES

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
3. ALL TECHNOLOGY OUTLETS IN THIS AREA TO TERMINATE INTO COMM 1701 UNLESS NOTED OTHERWISE.
4. ALTERNATE NO. 1. SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.



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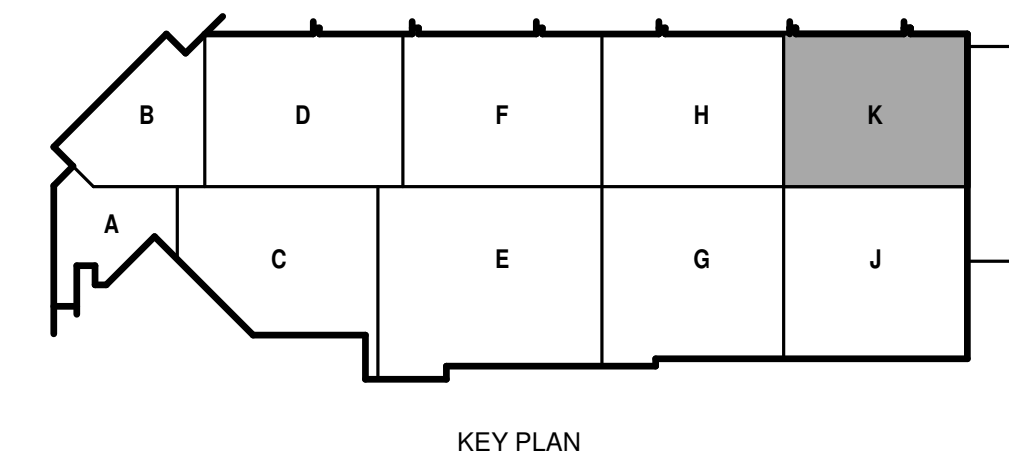
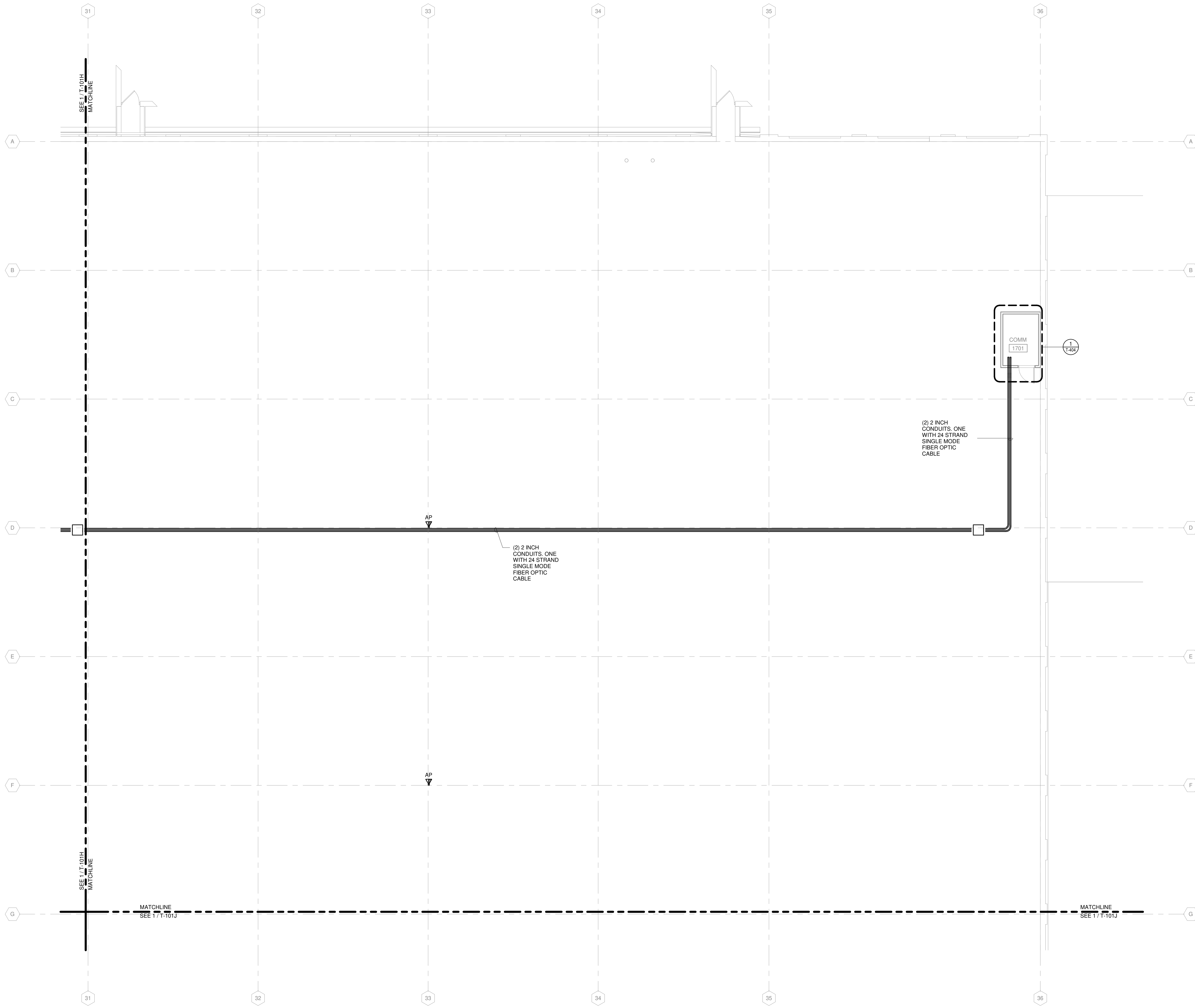
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SHEET CONTENTS  
FIRST FLOOR COMMUNICATIONS PLAN AREA K

SHEET NO.:

T-101K



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TRUE PLAN NORTH NORTH  
1  
FIRST FLOOR COMMUNICATIONS PLAN - AREA K  
1/8" = 1'-0"

COMMUNICATIONS GENERAL NOTES

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
3. ALL TECHNOLOGY OUTLETS IN THIS AREA TO TERMINATE INTO COMM 2121 UNLESS NOTED OTHERWISE.
4. ALTERNATE NO. 1, SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G151. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G151. THIS GENERALLY INCLUDES A BATHROOM, LOCKER ROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

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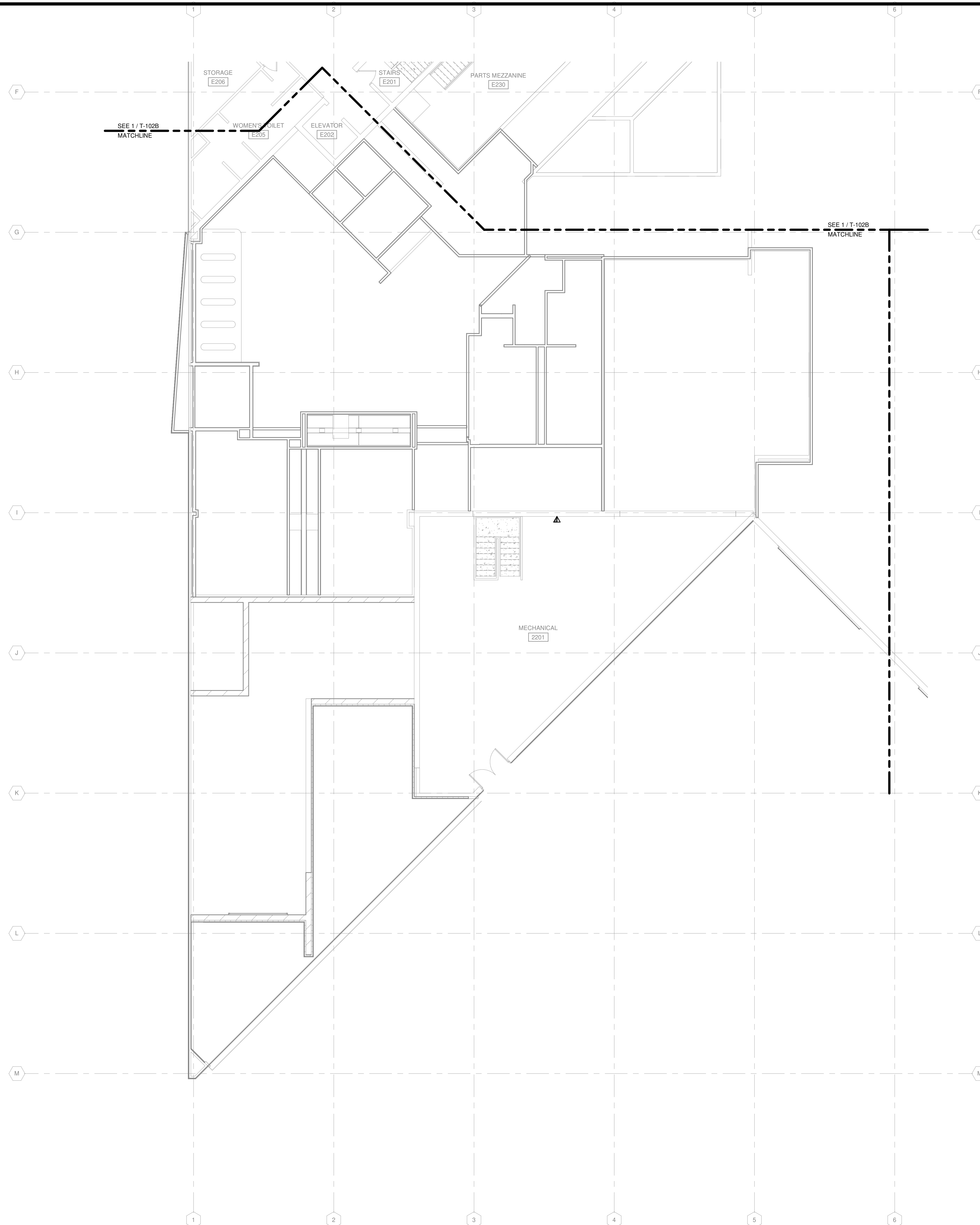
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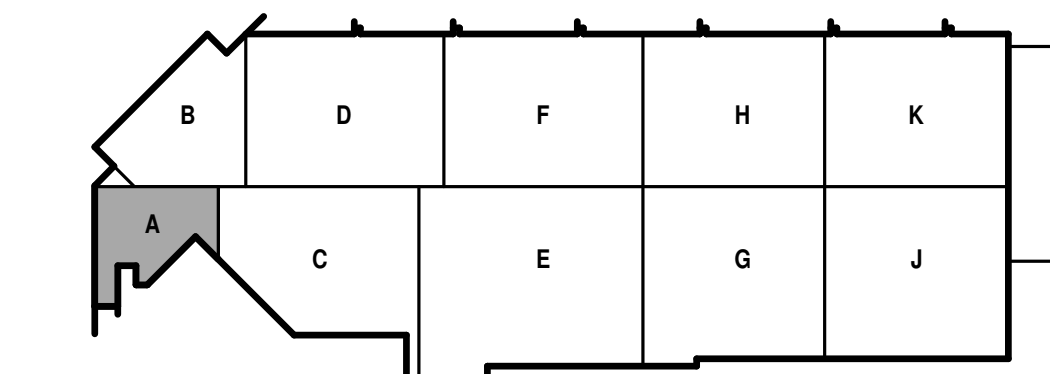
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SECOND FLOOR COMMUNICATIONS PLAN - AREA A

SHEET NO.:

T-102A



TRUE PLAN  
NORTH NORTH  
**SECOND FLOOR COMMUNICATIONS PLAN - AREA A**  
1/8" = 1'-0"



KEY PLAN

COMMUNICATIONS GENERAL NOTES

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
3. ALL TECHNOLOGY OUTLETS IN THIS AREA TO TERMINATE INTO COMM 2121 UNLESS NOTED OTHERWISE.
4. ALTERNATE NO. 1. SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

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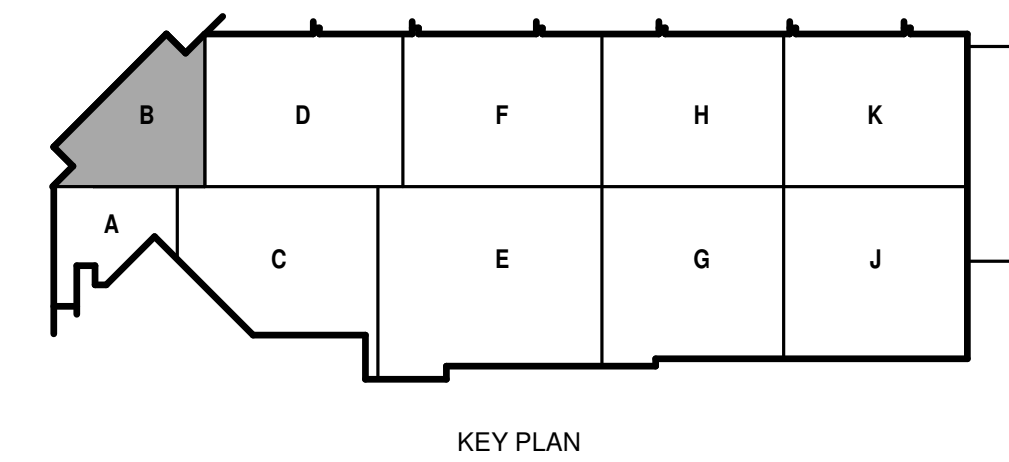
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SECOND FLOOR  
COMMUNICATIONS  
PLAN - AREA B

SHEET NO.:

**T-102B**



TRUE PLAN  
NORTH NORTH  
**1 SECOND FLOOR COMMUNICATIONS PLAN - AREA B**  
1/8" = 1'-0"



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COMMUNICATIONS GENERAL NOTES

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
3. ALL TECHNOLOGY OUTLETS IN THIS AREA TO TERMINATE INTO COMM 2121 UNLESS NOTED OTHERWISE.
4. ALTERNATE NO. 1, SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM, LOCKER ROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

**Mead & Hunt**

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MADISON, WI 53703

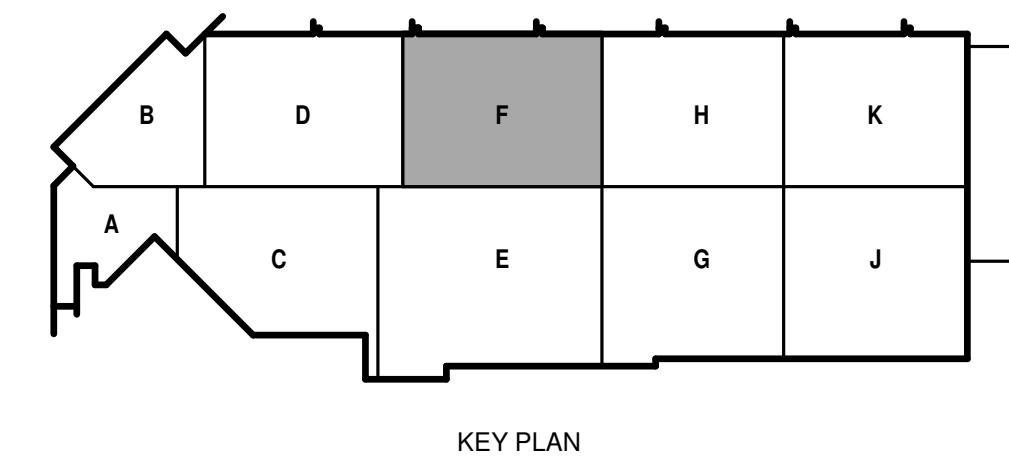
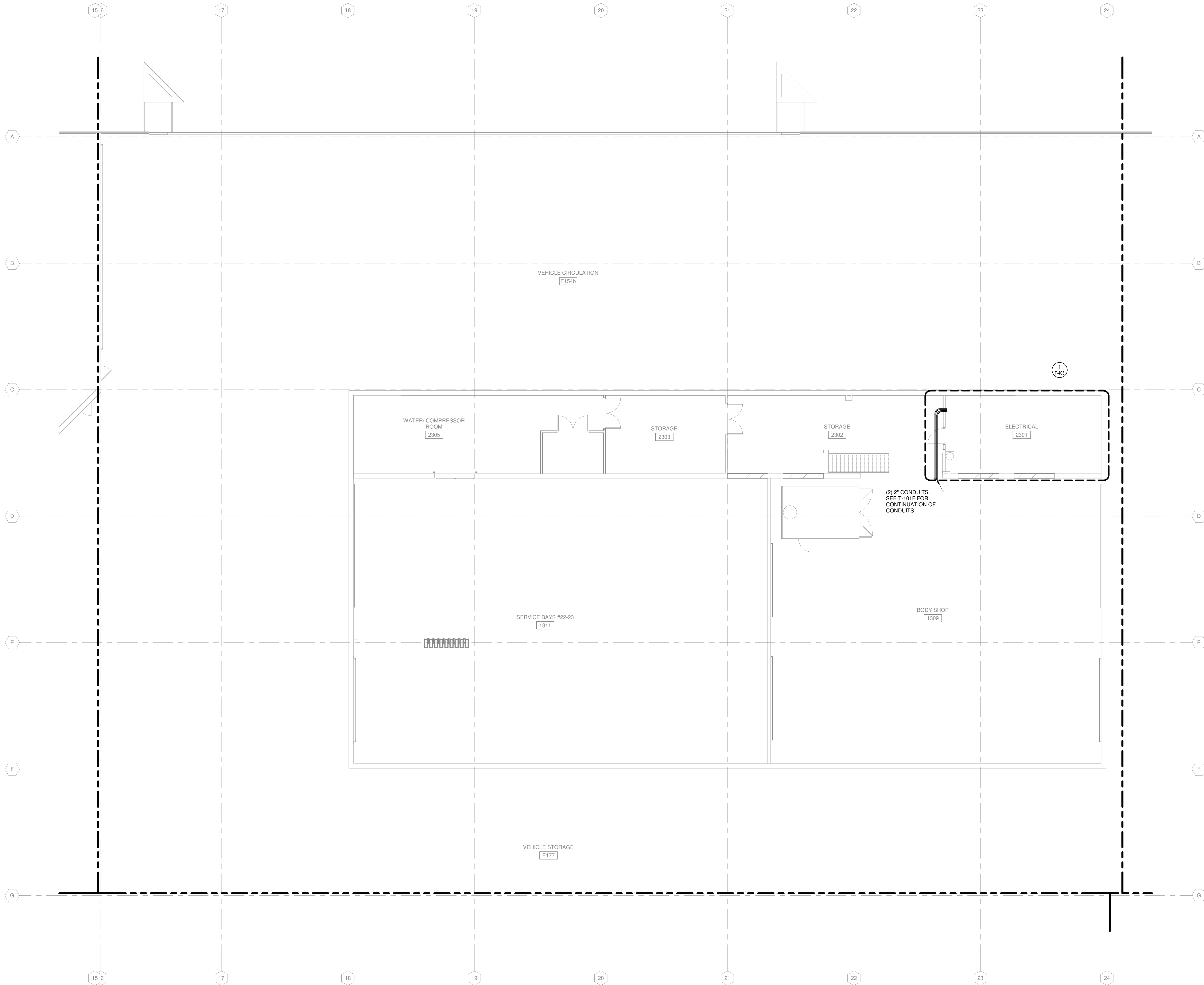
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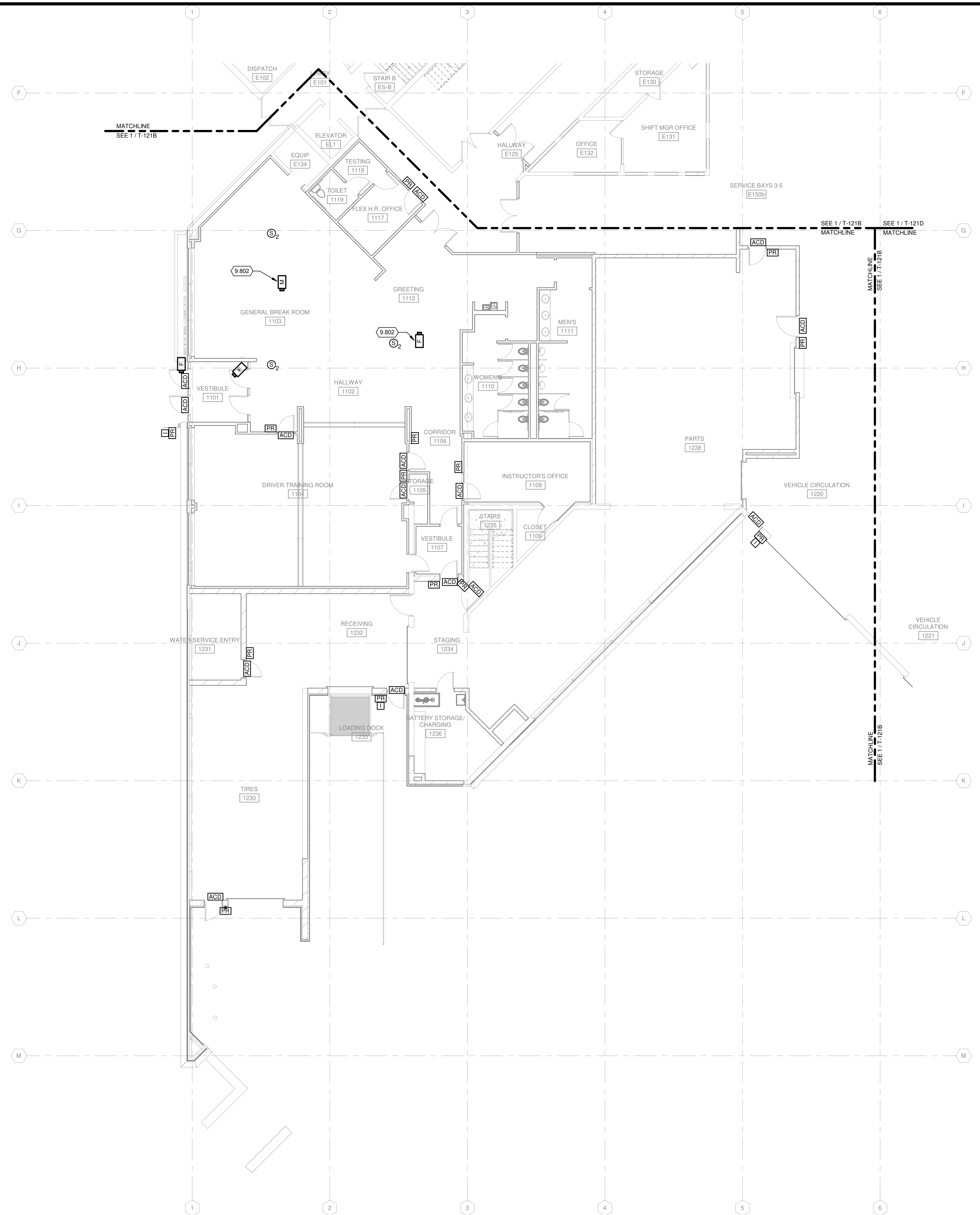
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SECOND FLOOR COMMUNICATIONS PLAN - AREA F

SHEET NO.:

T-102F



TRUE PLAN  
NORTH NORTH  
**1** SECOND FLOOR COMMUNICATIONS PLAN - AREA F  
1/8" = 1'-0"



**SECURITY AND A/V GENERAL NOTES**

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR DOOR HARDWARE SCHEDULE. REFER TO DIVISION 08 SPECIFICATIONS FOR DOOR HARDWARE SETS. NOTIFY A/E OF DISCREPANCIES PRIOR TO INSTALLATION.

**KEYED NOTES**

- 9.802 CAMERA TO INCLUDE MICROPHONE.

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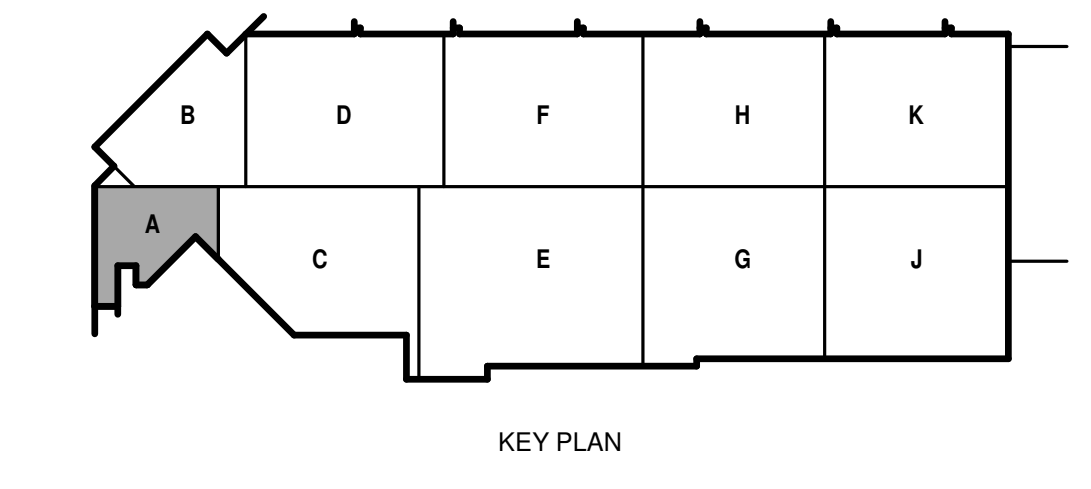
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SHEET CONTENTS  
 FIRST FLOOR SECURITY AND AV PLAN - AREA A

SHEET NO.:

**T-121A**



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**SECURITY AND A/V GENERAL NOTES**

- REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
- REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
- REFER TO ARCHITECTURAL DRAWINGS FOR DOOR HARDWARE SCHEDULE. REFER TO DIVISION 08 SPECIFICATIONS FOR DOOR HARDWARE SETS. NOTIFY A/E OF DISCREPANCIES PRIOR TO INSTALLATION.

**KEYED NOTES**

- 9.801 PROVIDE DESK MOUNTED PUSH BUTTON AND INTERCOM MASTER STATION TO CONTROL MAIN VESTIBULE DOOR.

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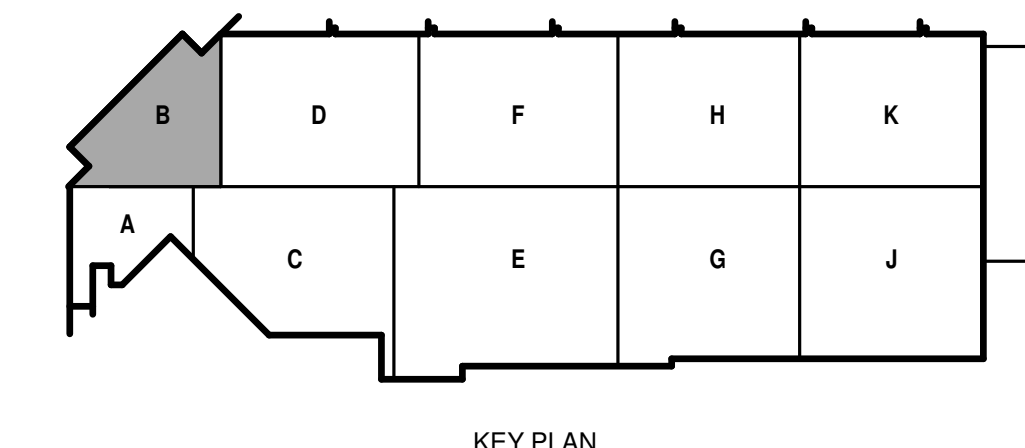
SHEET CONTENTS  
FIRST FLOOR  
SECURITY AND AV  
PLAN - AREA B

SHEET NO.:

**T-121B**



TRUE PLAN  
NORTH NORTH  
**1 FIRST FLOOR SECURITY AND AV PLAN - AREA B**  
1/8" = 1'-0"



**SECURITY AND A/V GENERAL NOTES**

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
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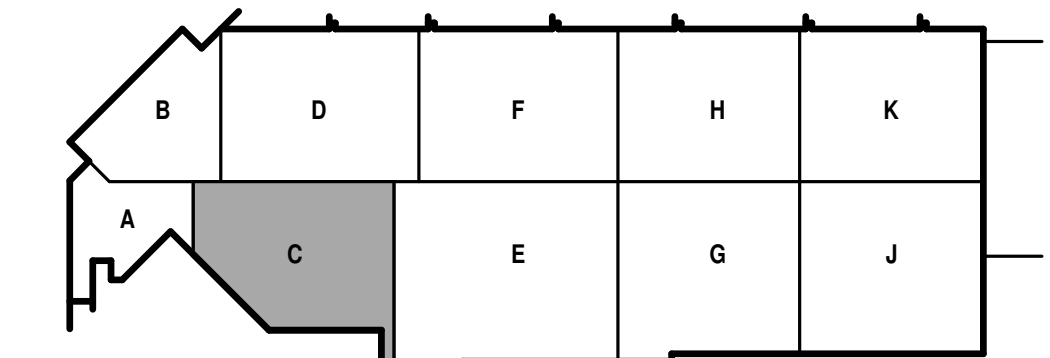
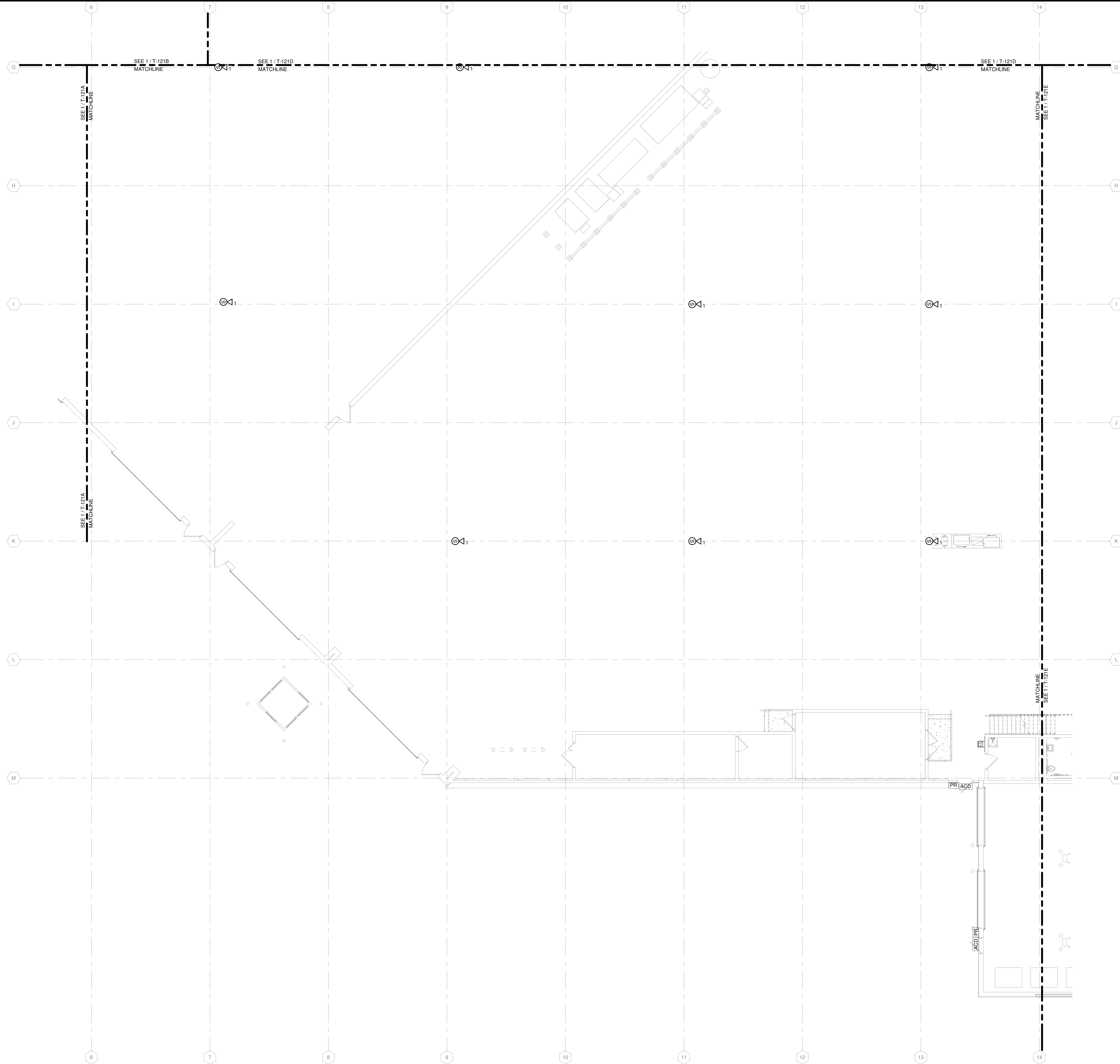
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SHEET CONTENTS  
FIRST FLOOR  
SECURITY AND AV  
PLAN - AREA C

SHEET NO.:

**T-121C**



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**SECURITY AND A/V GENERAL NOTES**

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
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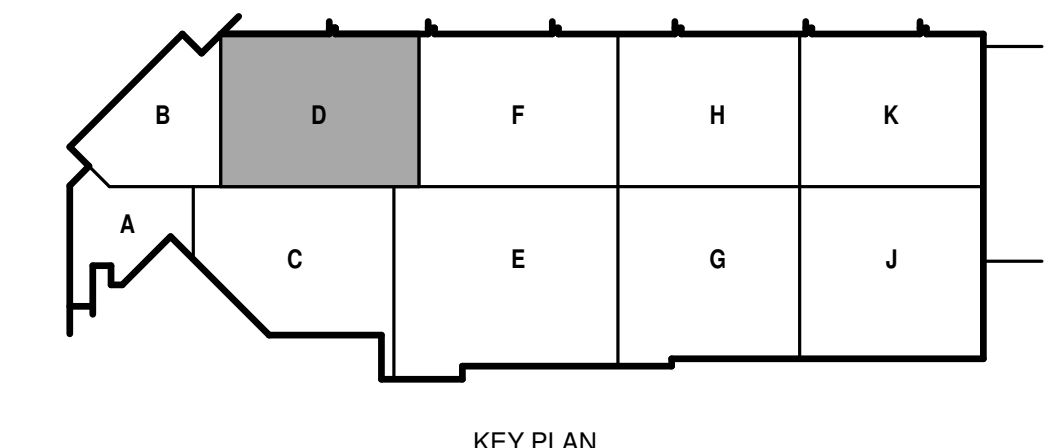
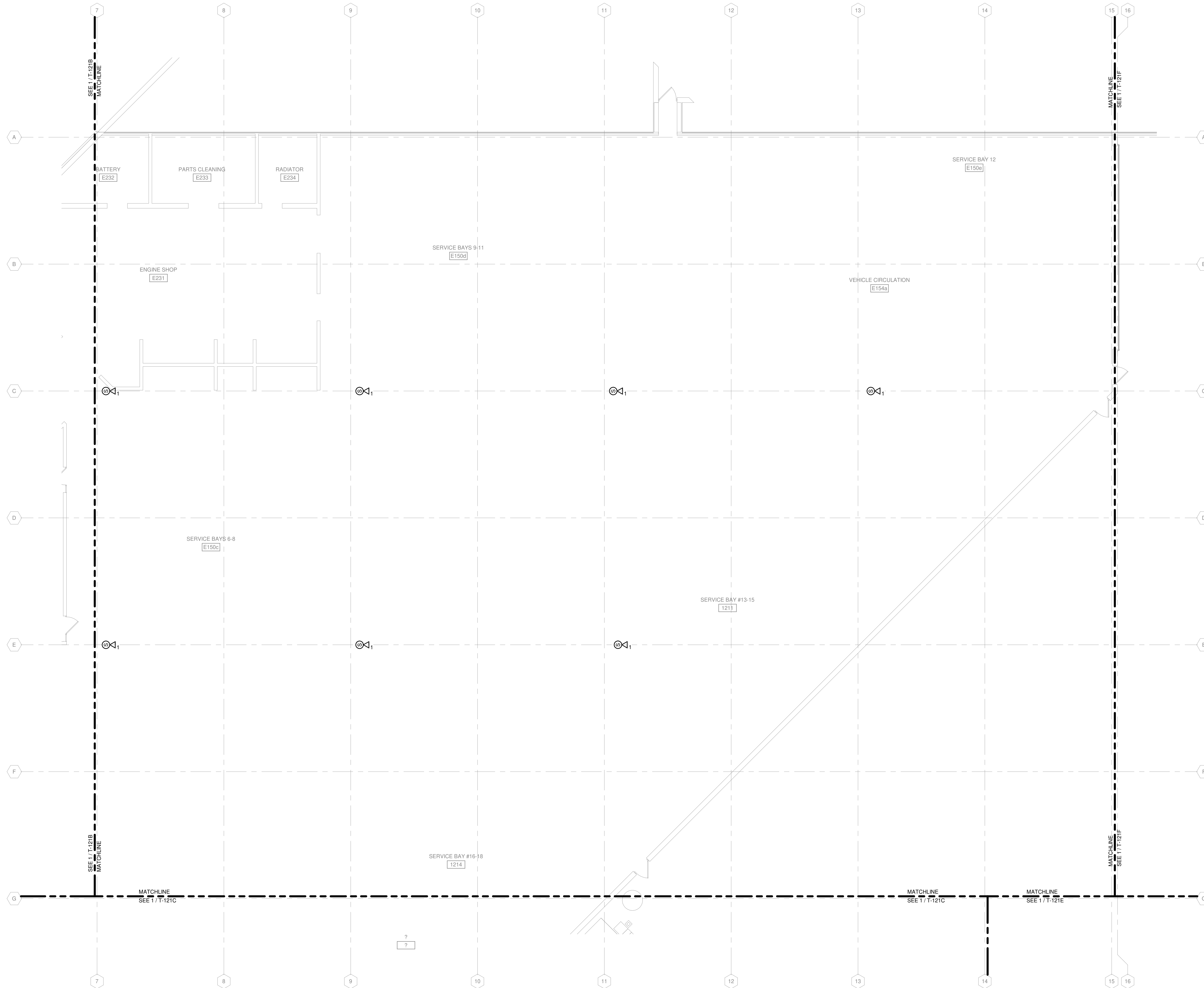
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SHEET CONTENTS  
FIRST FLOOR  
SECURITY AND AV  
PLAN - AREA D

SHEET NO.:

**T-121D**



TRUE PLAN  
NORTH NORTH  
**1**  
**FIRST FLOOR SECURITY AND AV PLAN - AREA D**  
1/8" = 1'-0"

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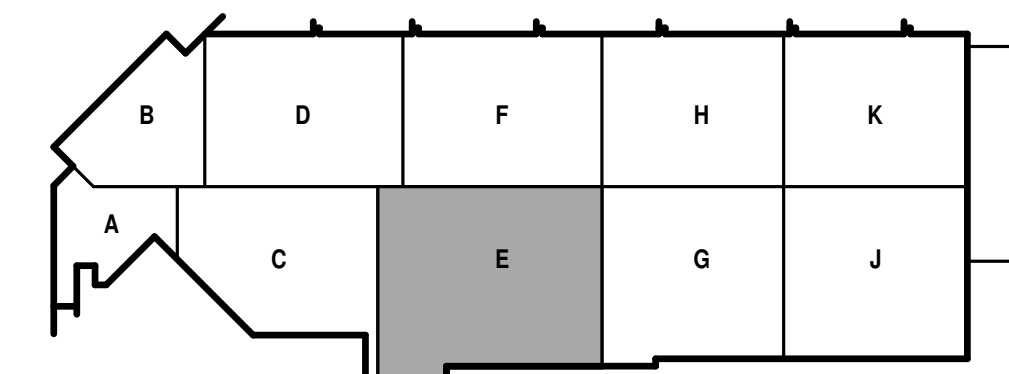
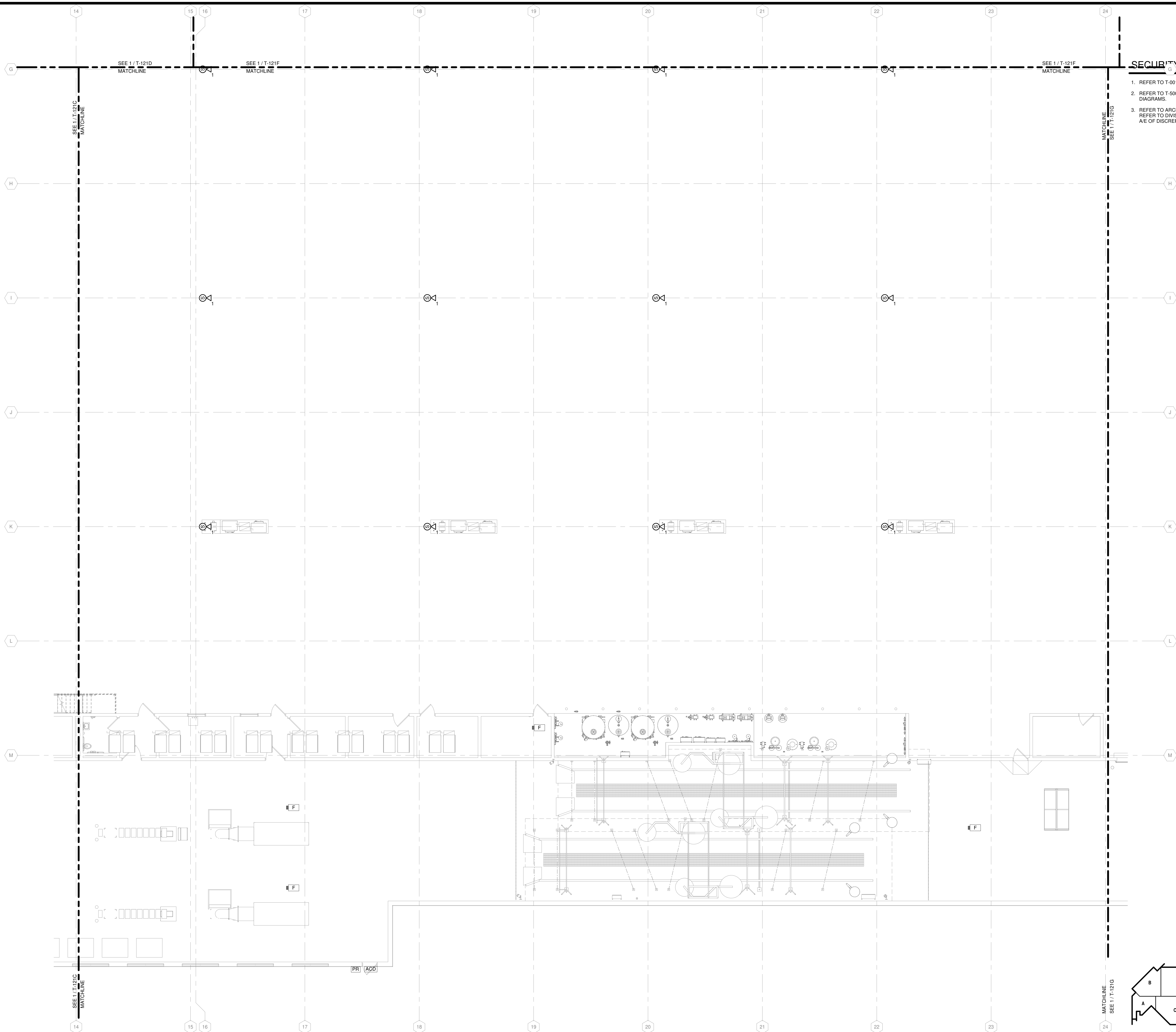
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FIRST FLOOR  
SECURITY AND AV  
PLAN - AREA E

SHEET NO.:

**T-121E**

**SECURITY AND A/V GENERAL NOTES**

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR DOOR HARDWARE SCHEDULE. REFER TO DIVISION 08 SPECIFICATIONS FOR DOOR HARDWARE SETS. NOTIFY A/E OF DISCREPANCIES PRIOR TO INSTALLATION.



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**SECURITY AND A/V GENERAL NOTES**

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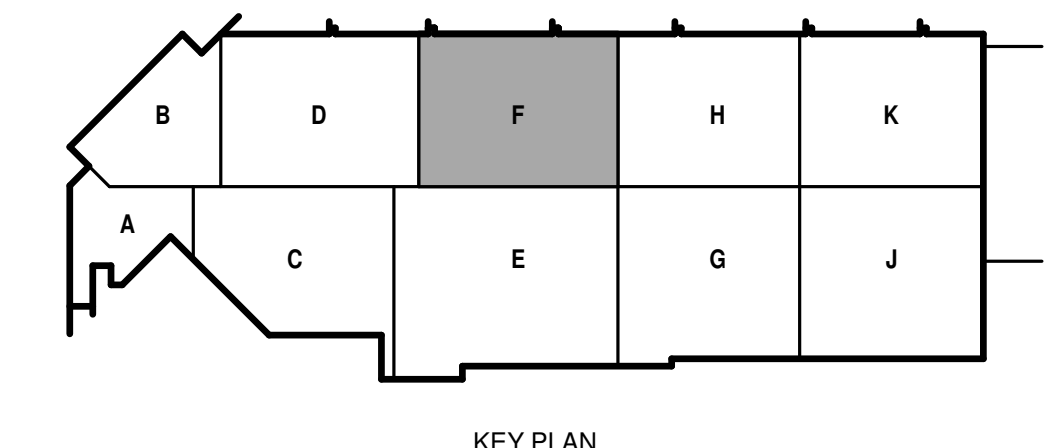
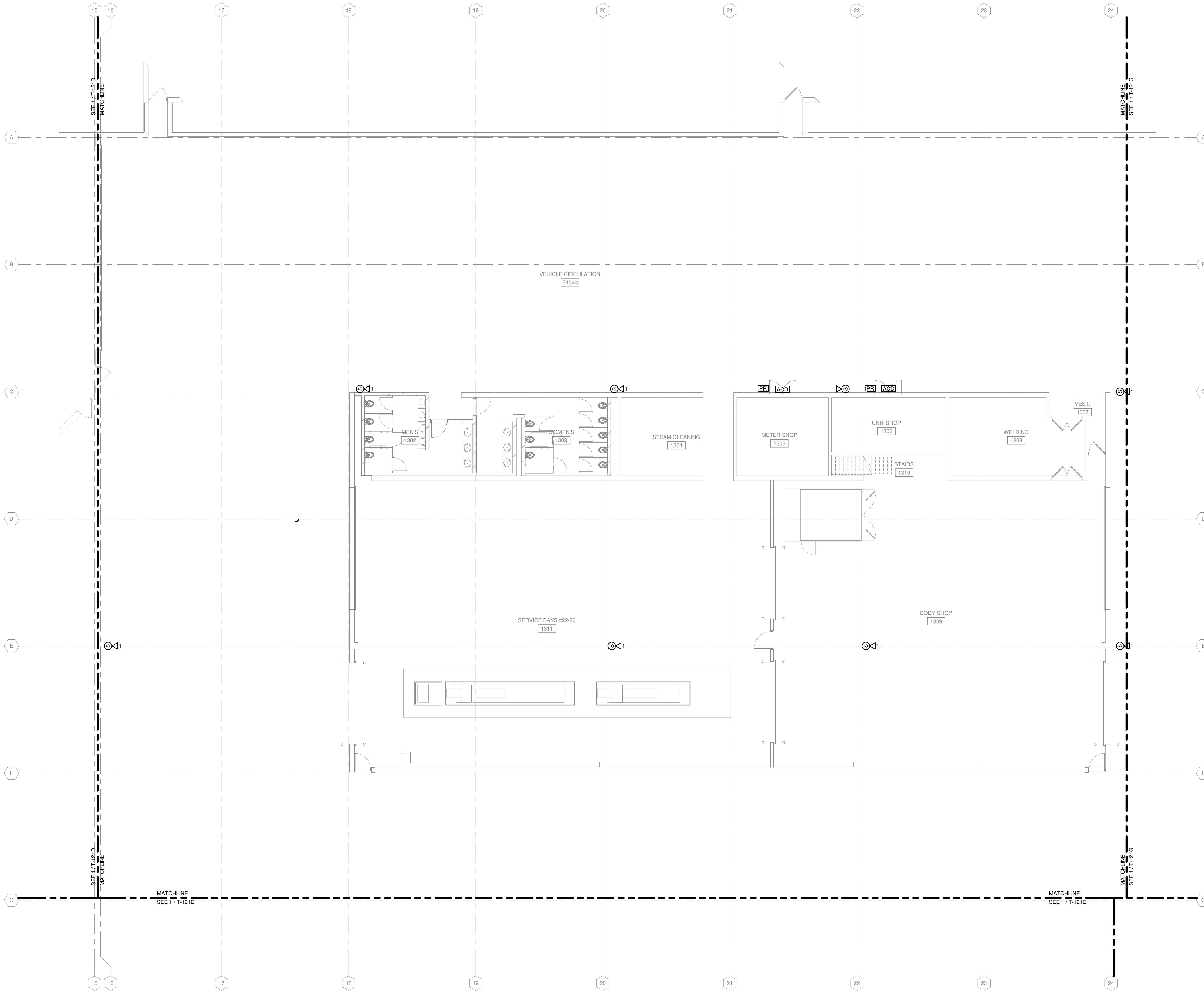
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SHEET CONTENTS  
FIRST FLOOR  
SECURITY AND AV  
PLAN - AREA F

SHEET NO.:

**T-121F**



TRUE PLAN  
NORTH NORTH  
**1**  
FIRST FLOOR SECURITY AND AV PLAN - AREA F  
1/8" = 1'-0"

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**SECURITY AND A/V GENERAL NOTES**

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
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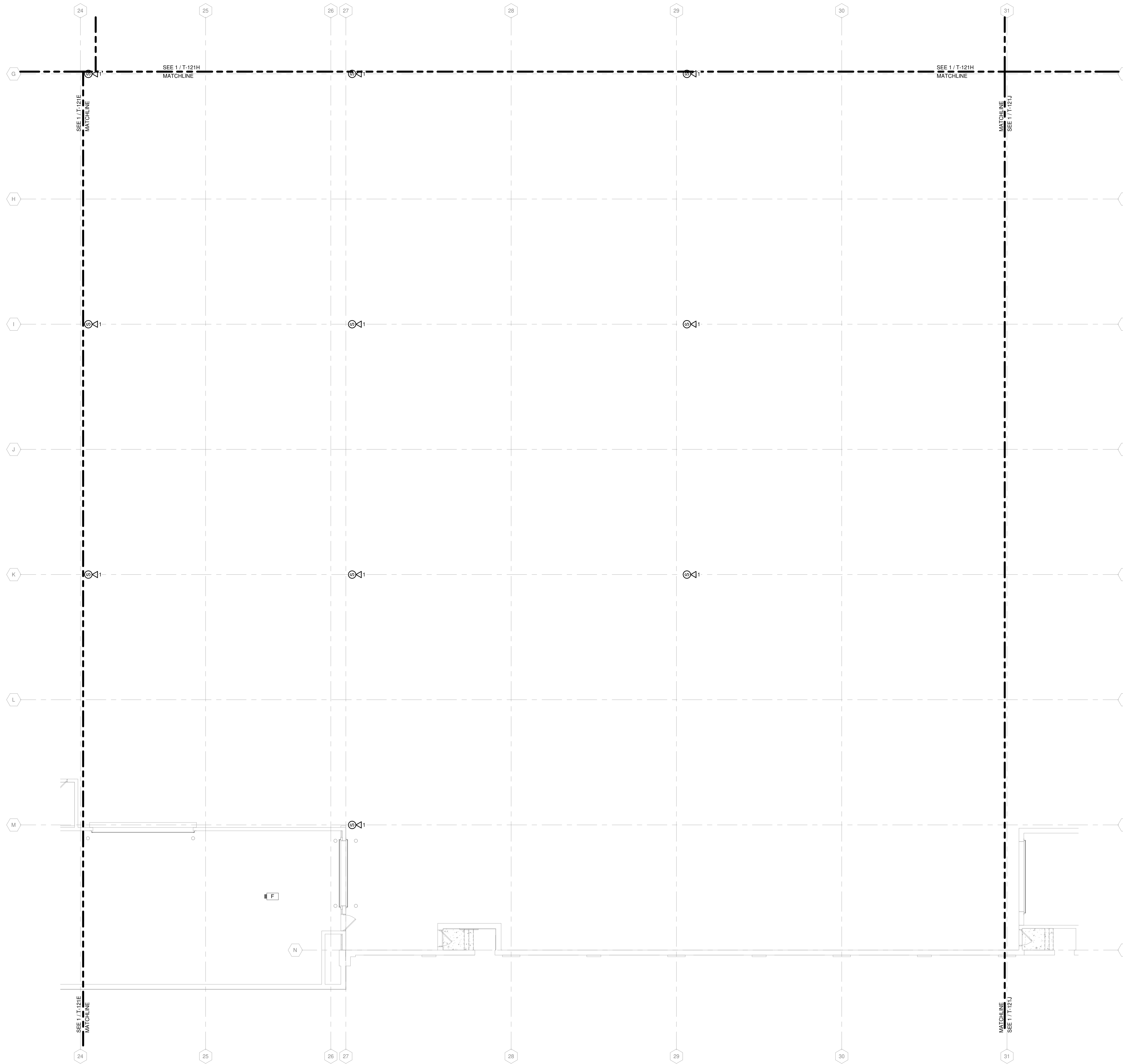
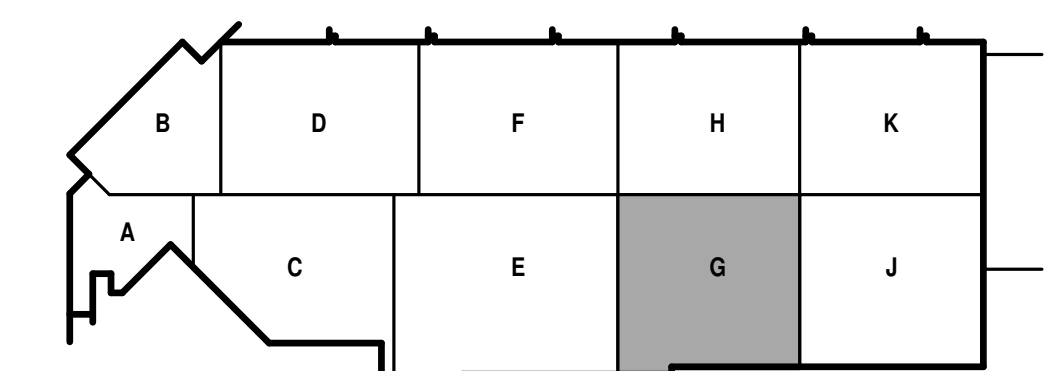
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SHEET CONTENTS  
FIRST FLOOR  
SECURITY AND AV  
PLAN - AREA G

SHEET NO.:

**T-121G**



TRUE PLAN  
NORTH NORTH  
**1** FIRST FLOOR SECURITY AND AV PLAN - AREA G  
1/8" = 1'-0"

**SECURITY AND A/V GENERAL NOTES**

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
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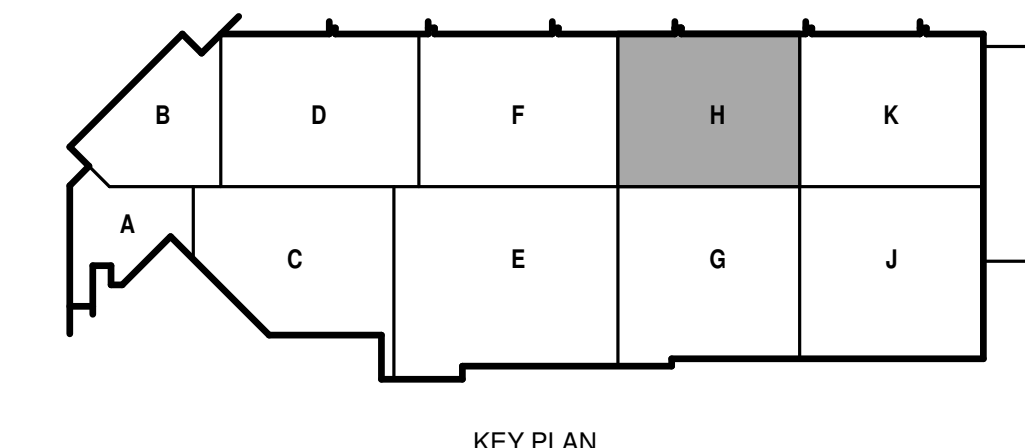
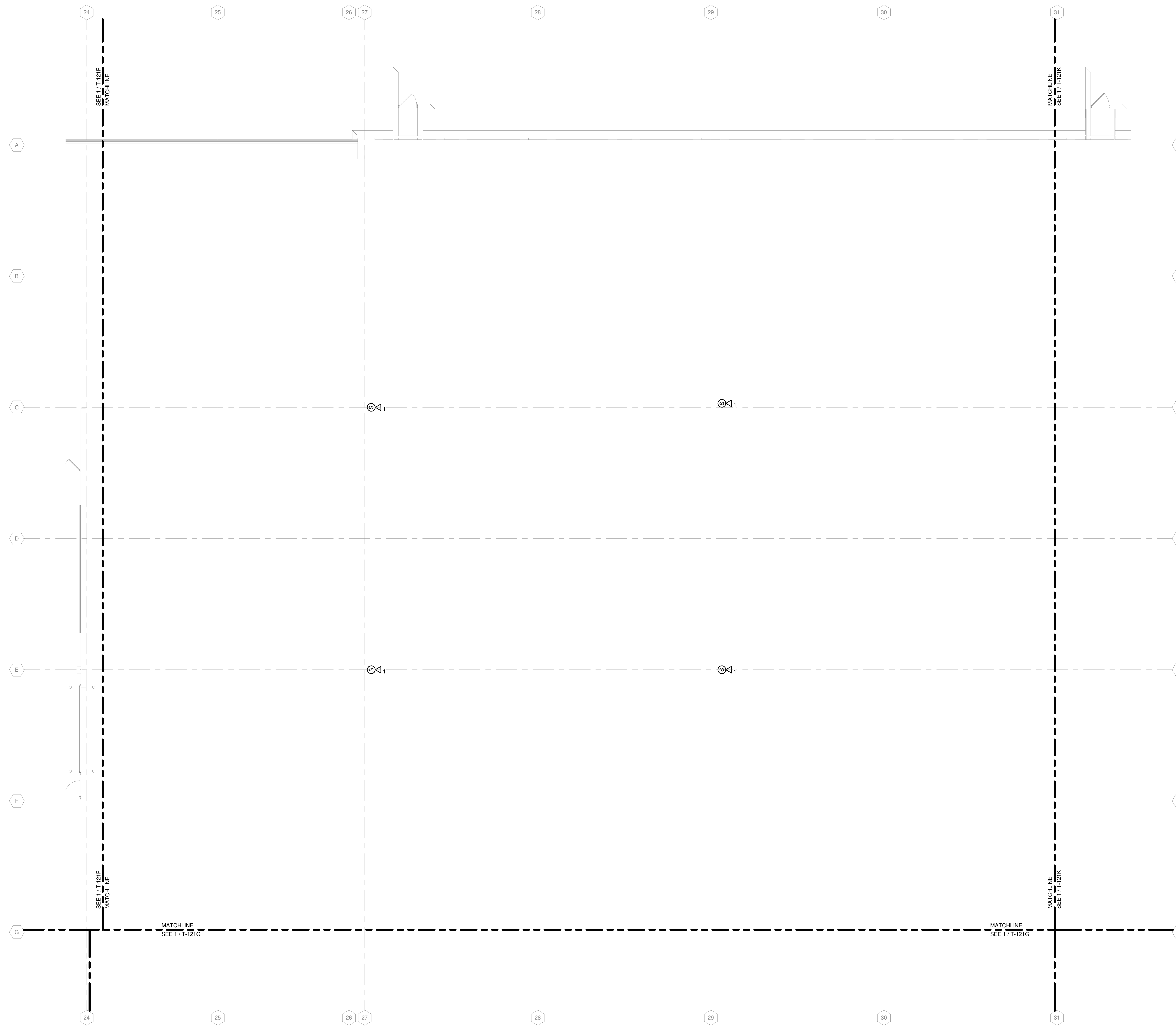
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SHEET CONTENTS  
FIRST FLOOR SECURITY AND AV PLAN - AREA H

SHEET NO.:

**T-121H**



TRUE PLAN  
NORTH NORTH  
**1**  
**FIRST FLOOR SECURITY AND AV PLAN - AREA H**  
1/8" = 1'-0"

**SECURITY AND A/V GENERAL NOTES**

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
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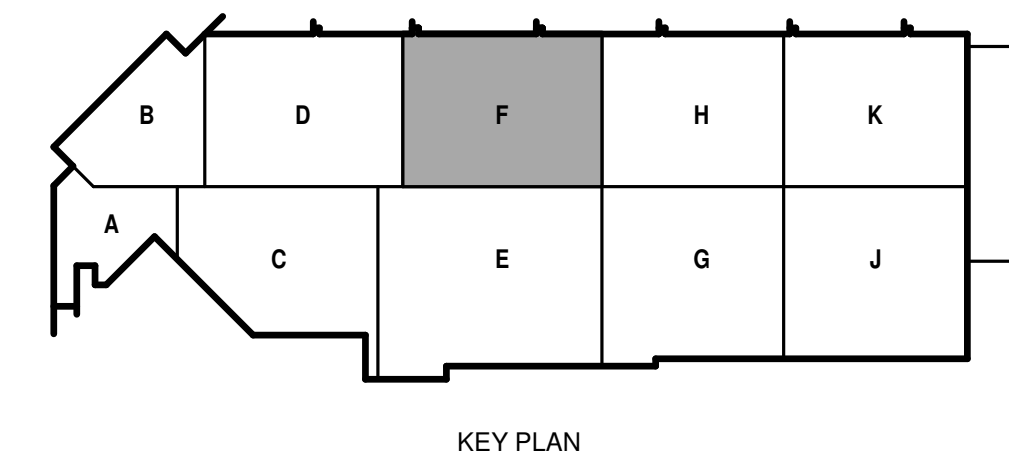
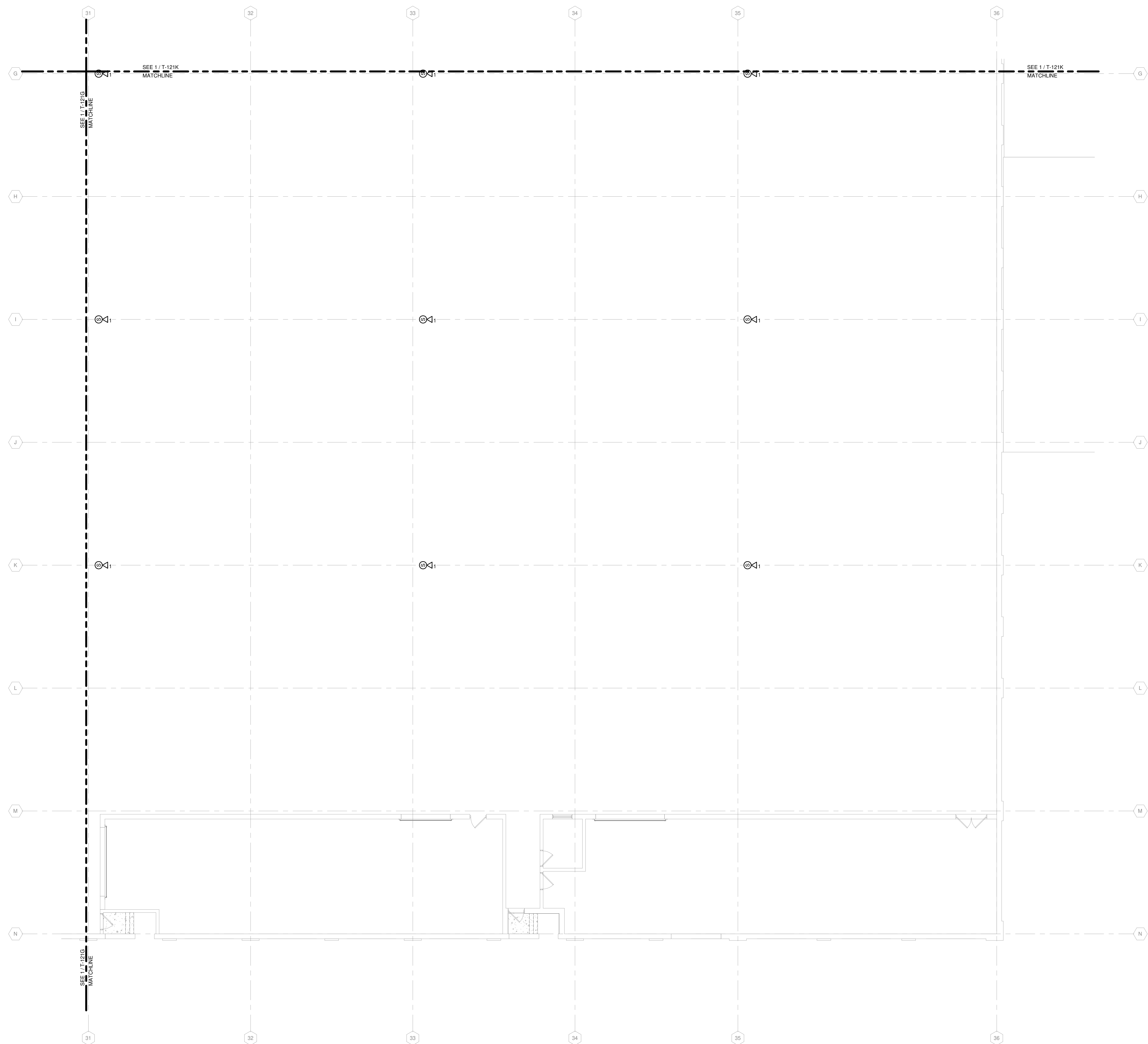
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SHEET CONTENTS  
FIRST FLOOR  
SECURITY AND AV  
PLAN - AREA J

SHEET NO.:

**T-121J**



TRUE PLAN  
NORTH NORTH  
**1** FIRST FLOOR SECURITY AND AV PLAN - AREA J  
1/8" = 1'-0"

**SECURITY AND A/V GENERAL NOTES**

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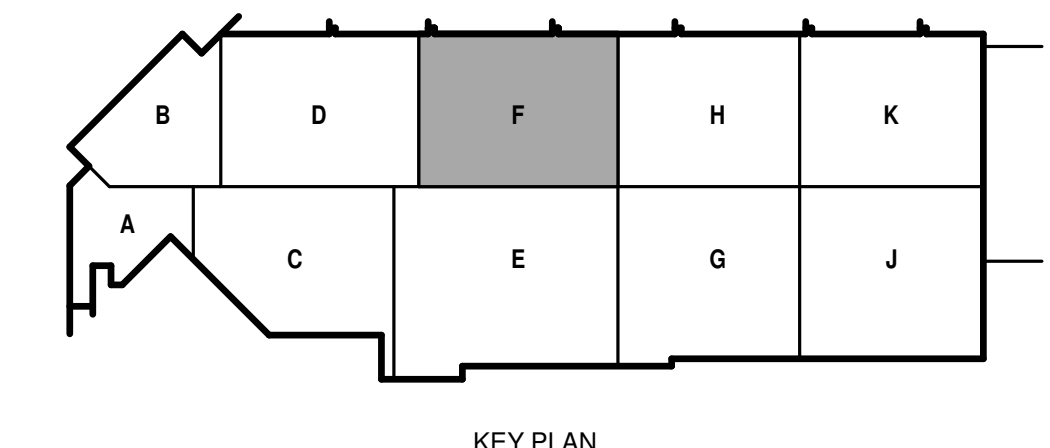
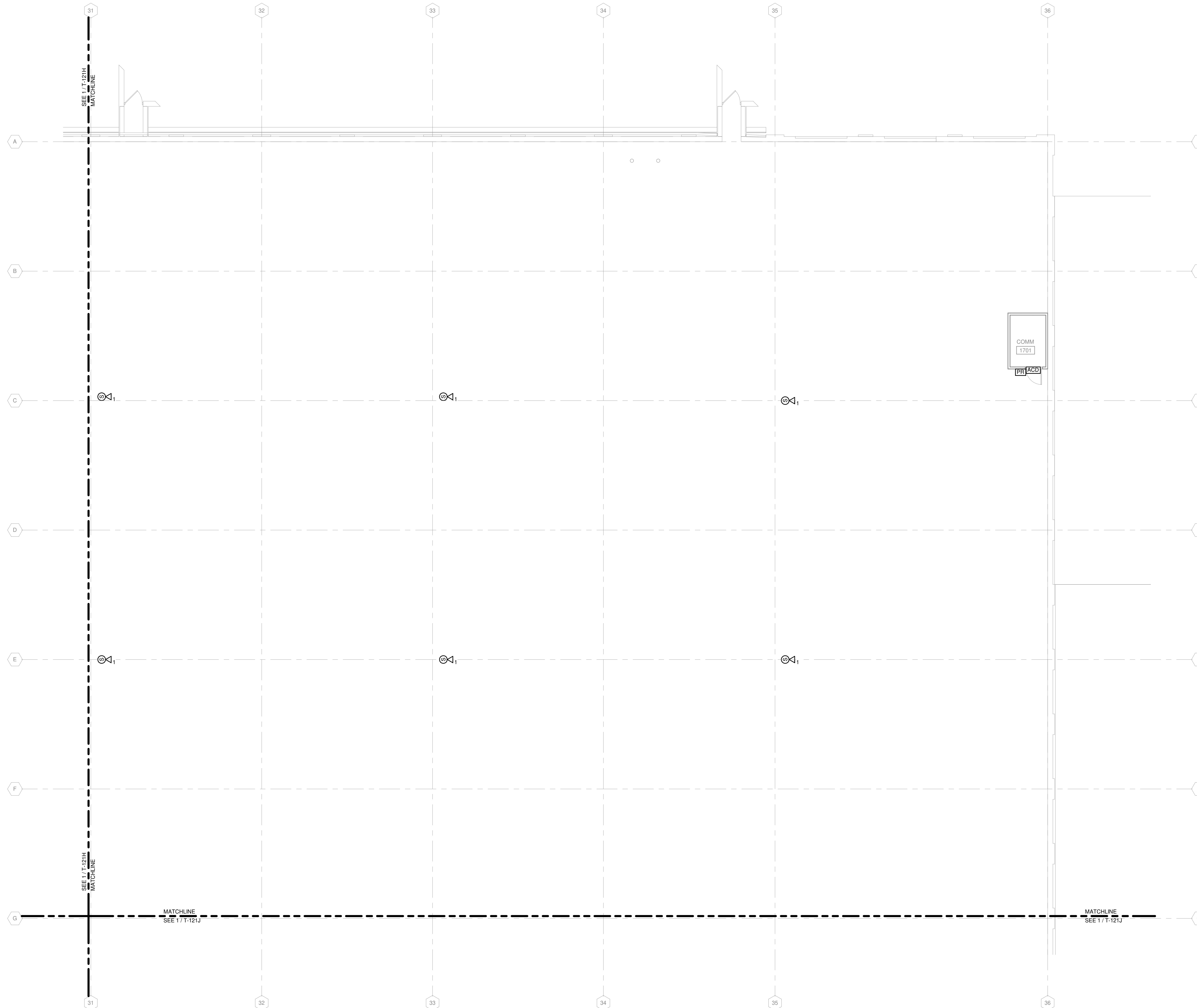
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SHEET CONTENTS  
FIRST FLOOR  
SECURITY AND AV  
PLAN - AREA K

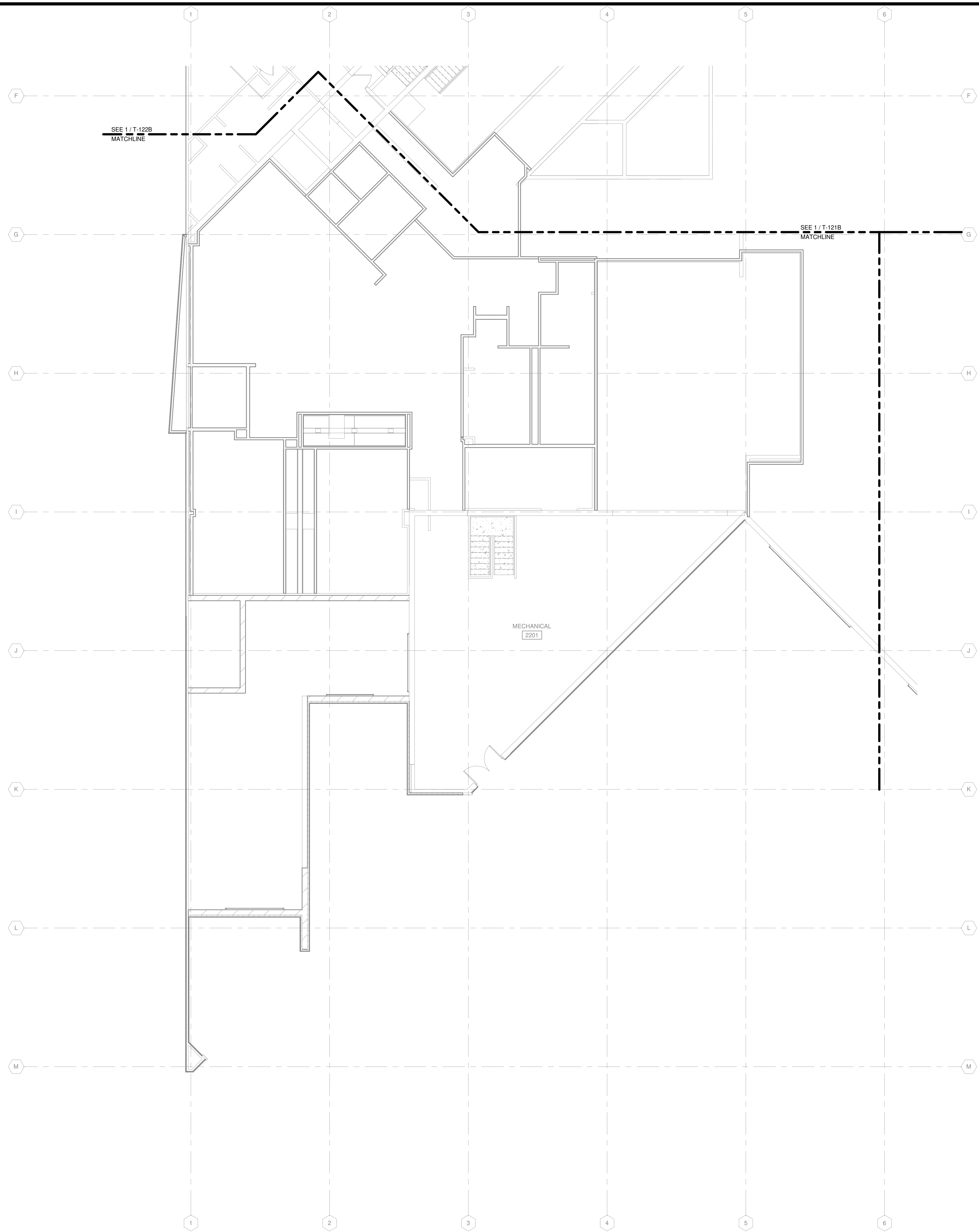
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**T-121K**



KEY PLAN

TRUE PLAN  
NORTH NORTH  
**1**  
**FIRST FLOOR SECURITY AND AV PLAN - AREA K**  
1/8" = 1'-0"



**SECURITY AND A/V GENERAL NOTES**

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
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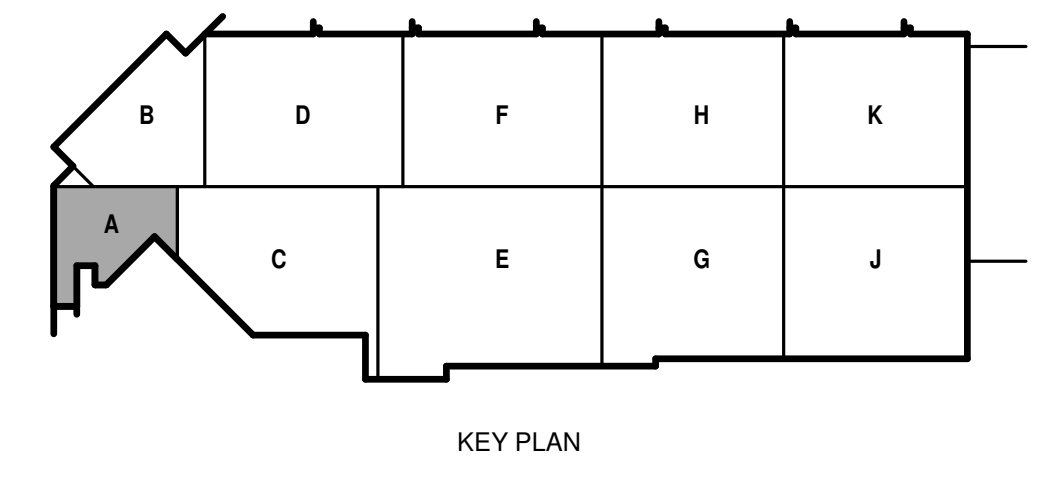
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SHEET CONTENTS  
 SECOND FLOOR SECURITY AND AV PLAN - AREA A

SHEET NO.:

**T-122A**



TRUE PLAN  
 NORTH NORTH  
 1  
**SECOND FLOOR SECURITY PLAN - AREA A**  
 1/8" = 1'-0"

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**SECURITY AND A/V GENERAL NOTES**

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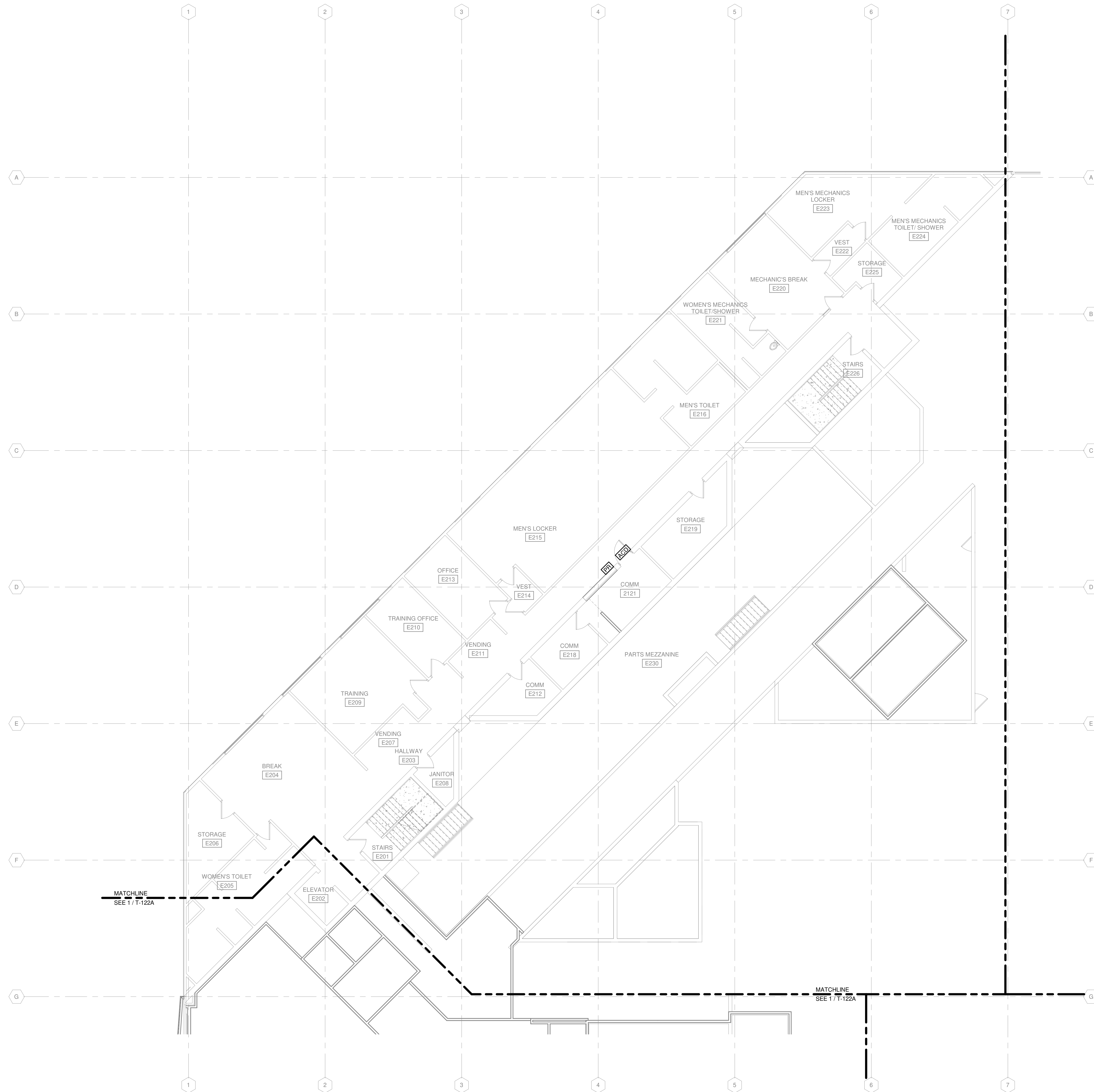
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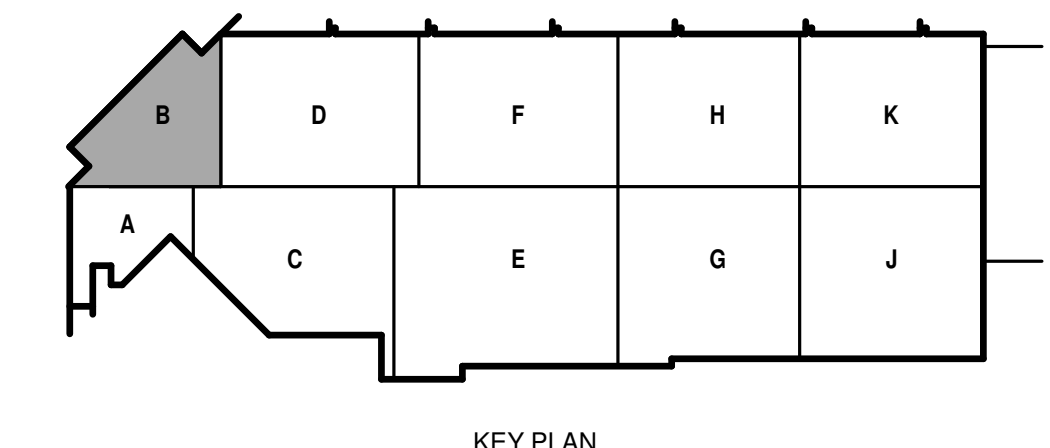
SHEET CONTENTS  
SECOND FLOOR SECURITY AND A/V PLAN - AREA B

SHEET NO.:

**T-122B**



TRUE PLAN  
NORTH NORTH  
**1**  
1/8" = 1'-0"  
**SECOND FLOOR AND AV SECURITY PLAN - AREA B**





**SECURITY AND A/V GENERAL NOTES**

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR DOOR HARDWARE SCHEDULE. REFER TO DIVISION 08 SPECIFICATIONS FOR DOOR HARDWARE SETS. NOTIFY A/E OF DISCREPANCIES PRIOR TO INSTALLATION.

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METRO TRANSIT PHASE 3A - MAINTENANCE AND  
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1101 EAST WASHINGTON AVE.  
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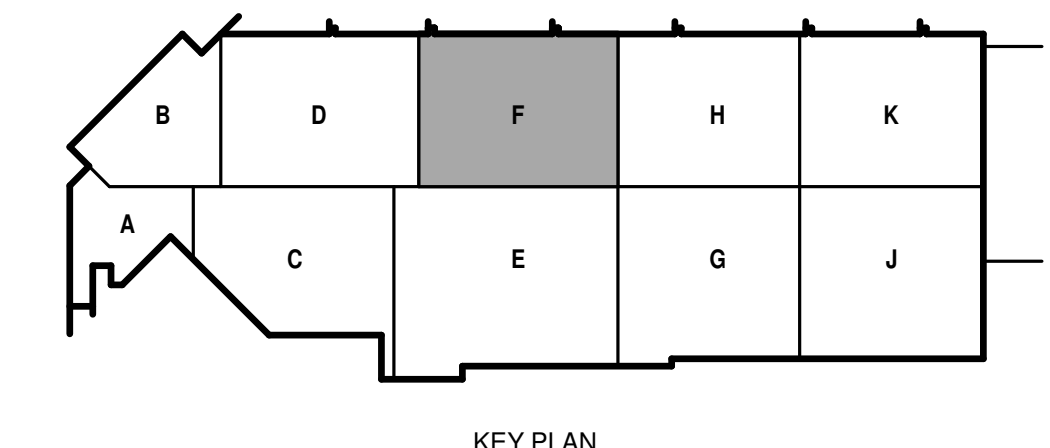
ISSUED  
04/08/21 BID SET

CONTRACT NO.: 8981  
MMW NO.: 4503500-1908996.03  
DATE: APRIL 8, 2021  
DESIGNED BY: MJR  
DRAWN BY: RZ  
CHECKED BY: JRM  
DO NOT SCALE DRAWINGS

SHEET CONTENTS  
SECOND FLOOR  
SECURITY AND AV  
PLAN - AREA F

SHEET NO.:

**T-122F**



TRUE PLAN  
NORTH NORTH  
**1 SECOND FLOOR SECURITY AND AV PLAN - AREA F**  
1/8" = 1'-0"

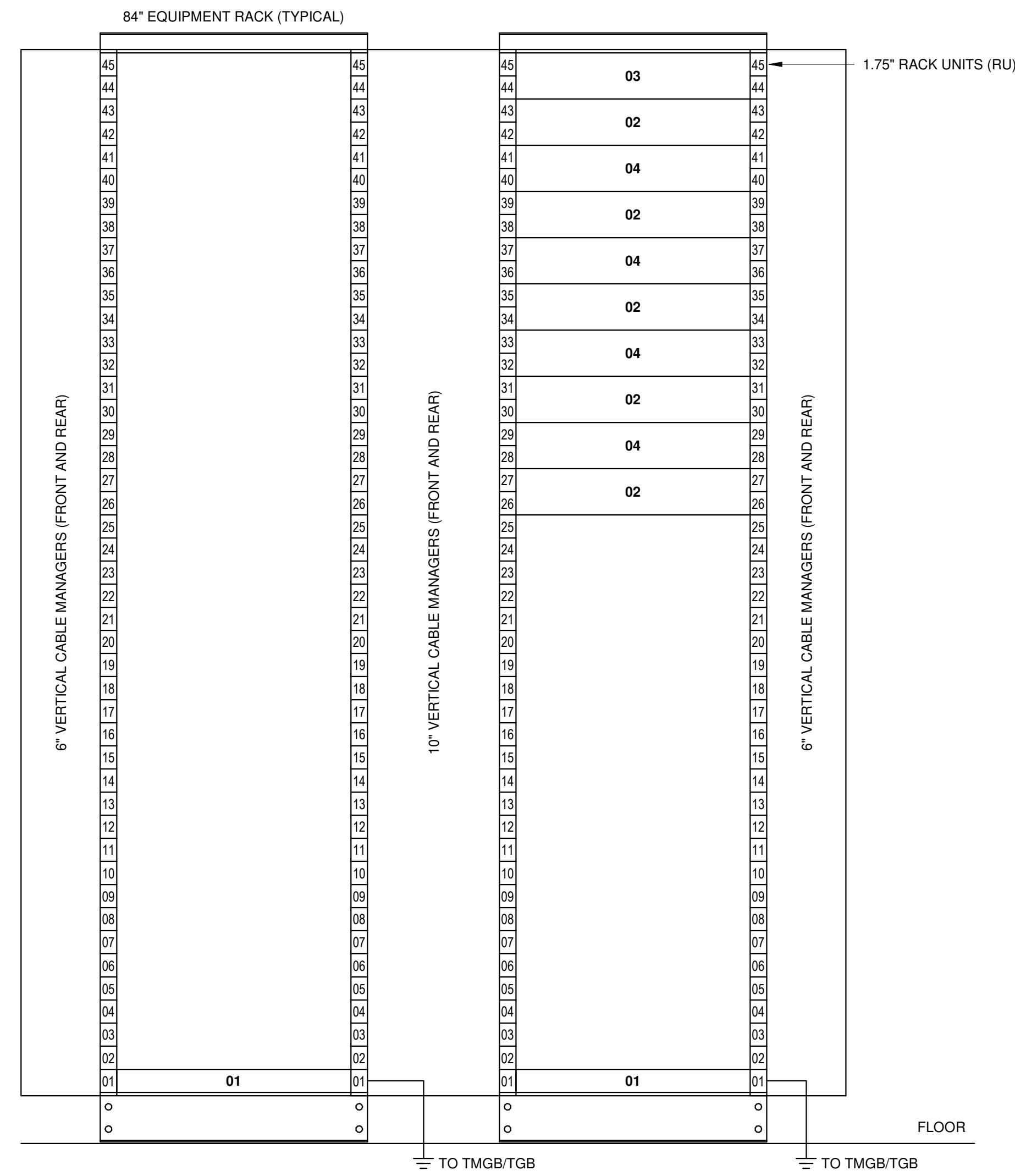


EQUIPMENT SCHEDULE	
#	EQUIPMENT DESCRIPTION
01	HORIZONTAL GROUND BUS BAR
02	WIRE MANAGER
03	FIBER OPTIC TERMINATION
04	48 PORT PATCH PANEL

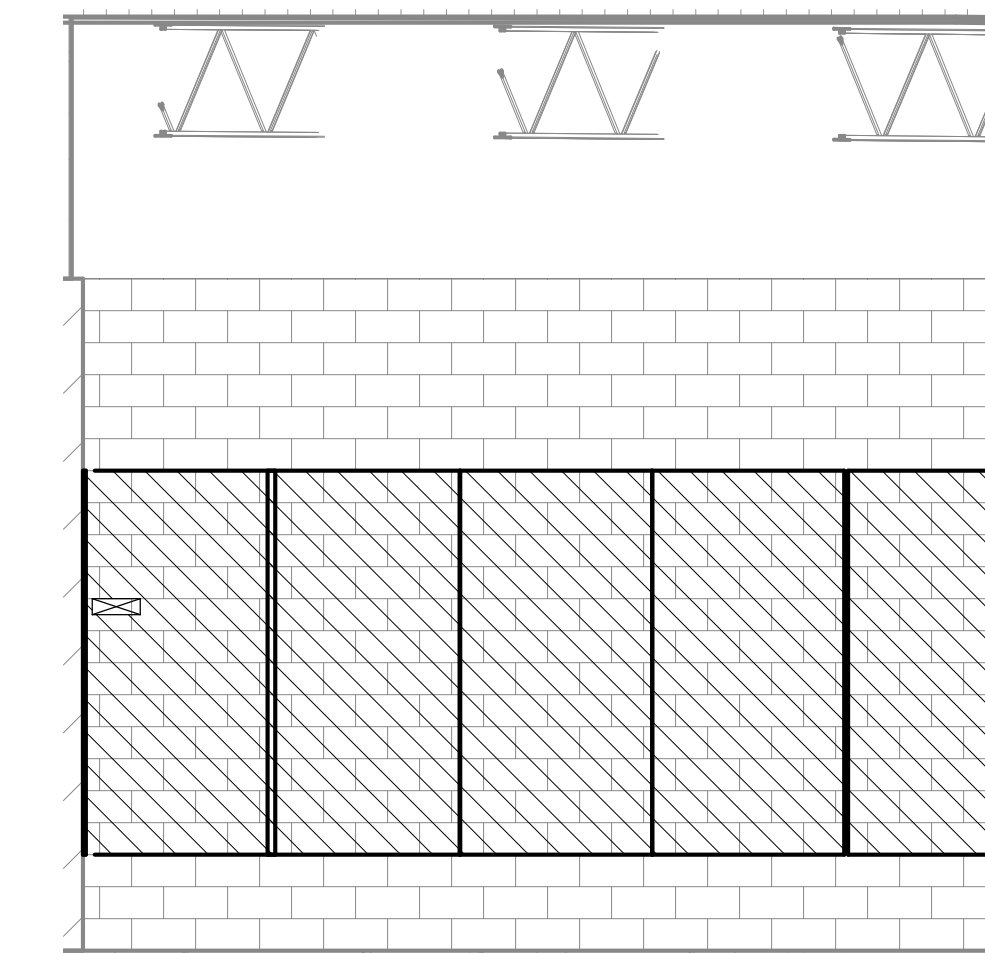
**NOTES:**  
1. EQUIPMENT LOCATION IS SHOWN TO ILLUSTRATE INTENT. COORDINATE ACTUAL LOCATION WITHIN RACK WITH OWNER PRIOR TO INSTALLATION.  
2. EQUIPMENT IS SHOWN FOR REFERENCE ONLY. ACTUAL QUANTITIES WILL BE BASED ON EQUIPMENT OUTLETS INSTALLED.

**KEYED NOTES**

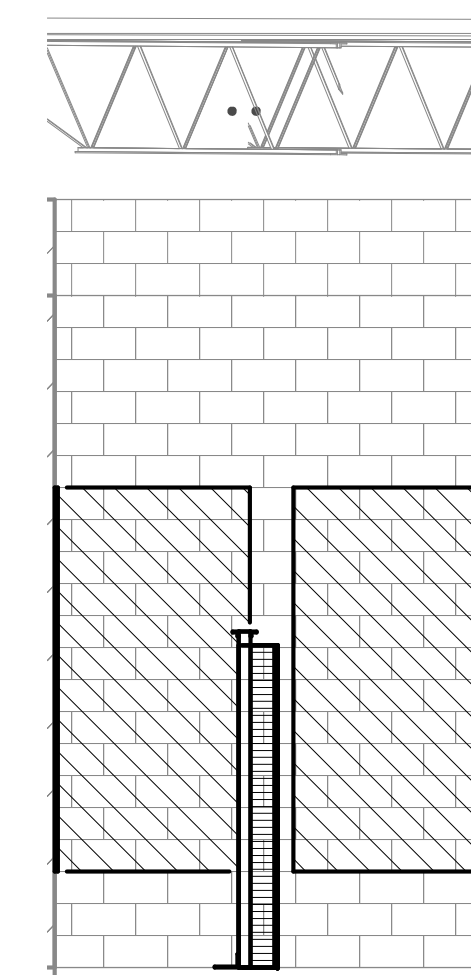
9.703 PROVIDE 3/4" 4X8' FIRE RETARDANT A-C GRADE PLYWOOD FOR BACKBOARD ON ALL WALLS IN TECHNOLOGY ROOMS MOUNTED AT 24" AFF.



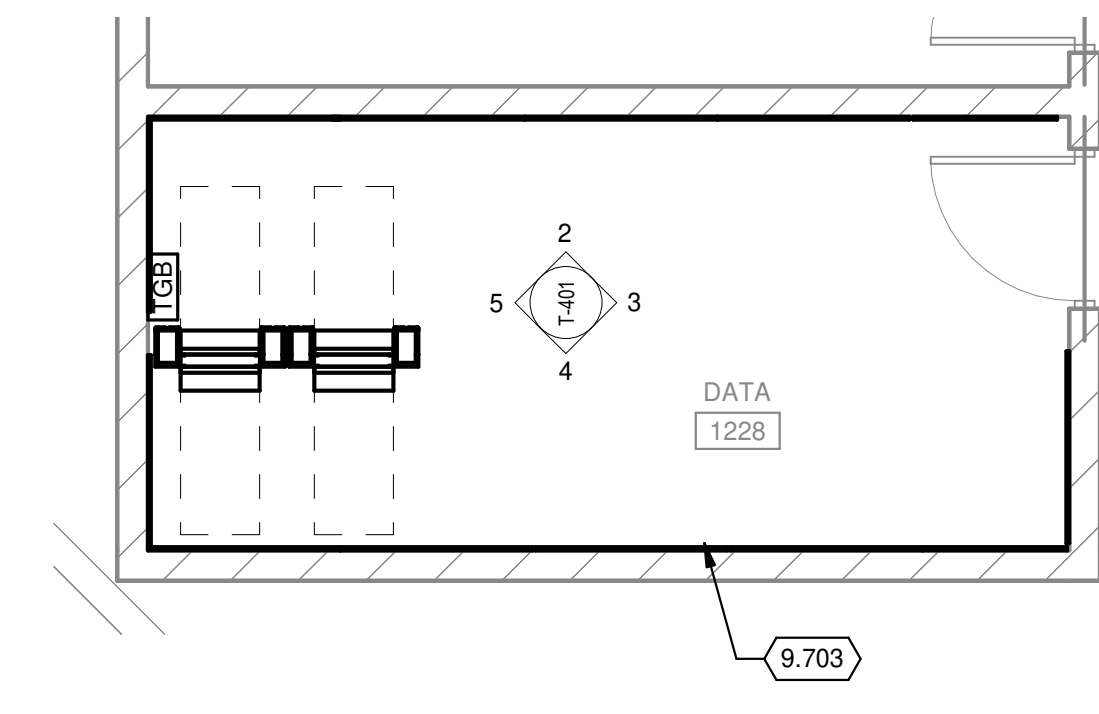
**6 RACK ELEVATIONS - DATA 1228**  
NO SCALE



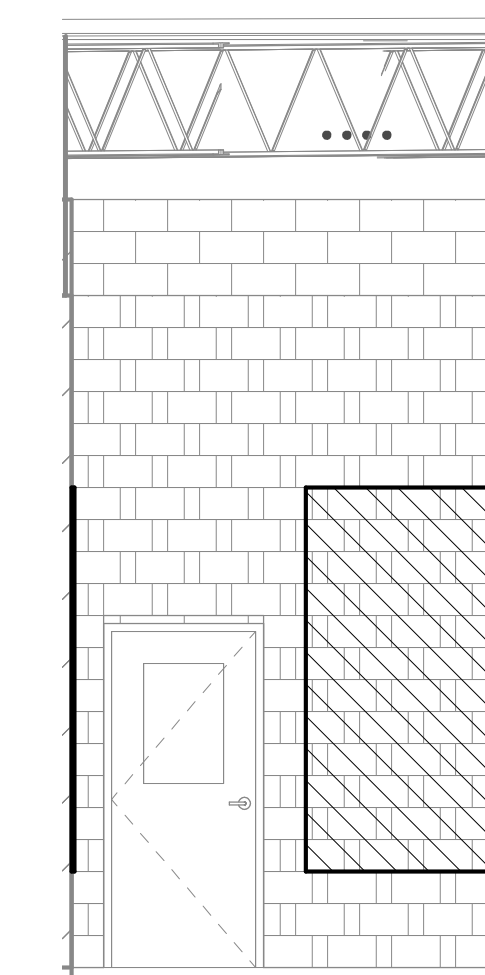
**2 WEST WALL - DATA 1228**  
1/4" = 1'-0"



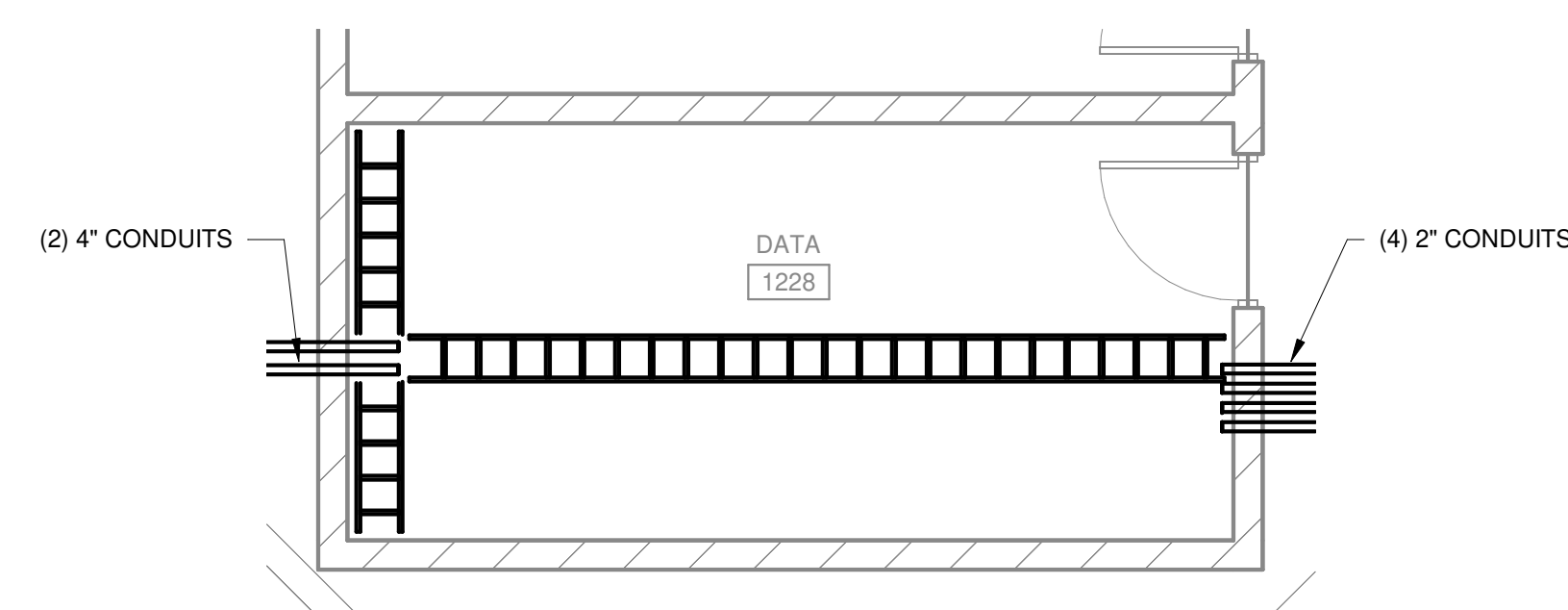
**5 SOUTH WALL - DATA 1228**  
1/4" = 1'-0"



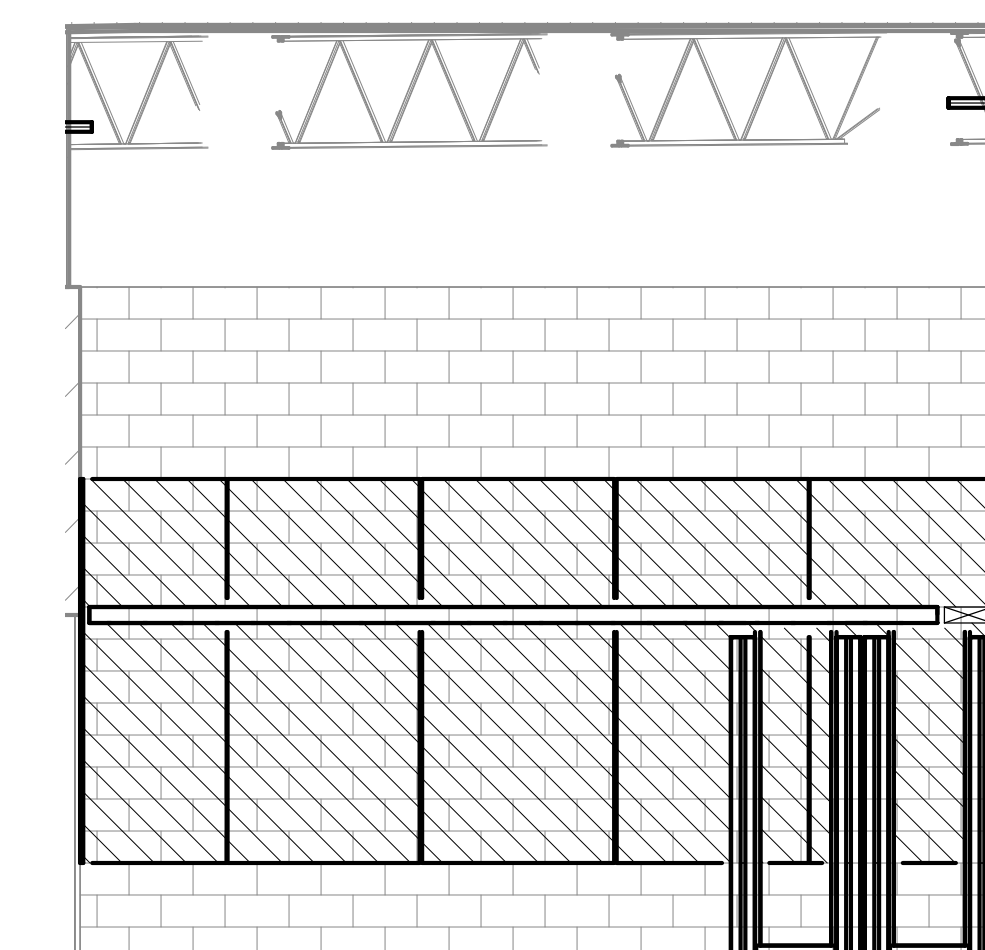
TRUE PLAN NORTH NORTH  
**1 ENLARGED PLAN - DATA 1228**  
1/4" = 1'-0"



**3 NORTH WALL - DATA 1228**  
1/4" = 1'-0"



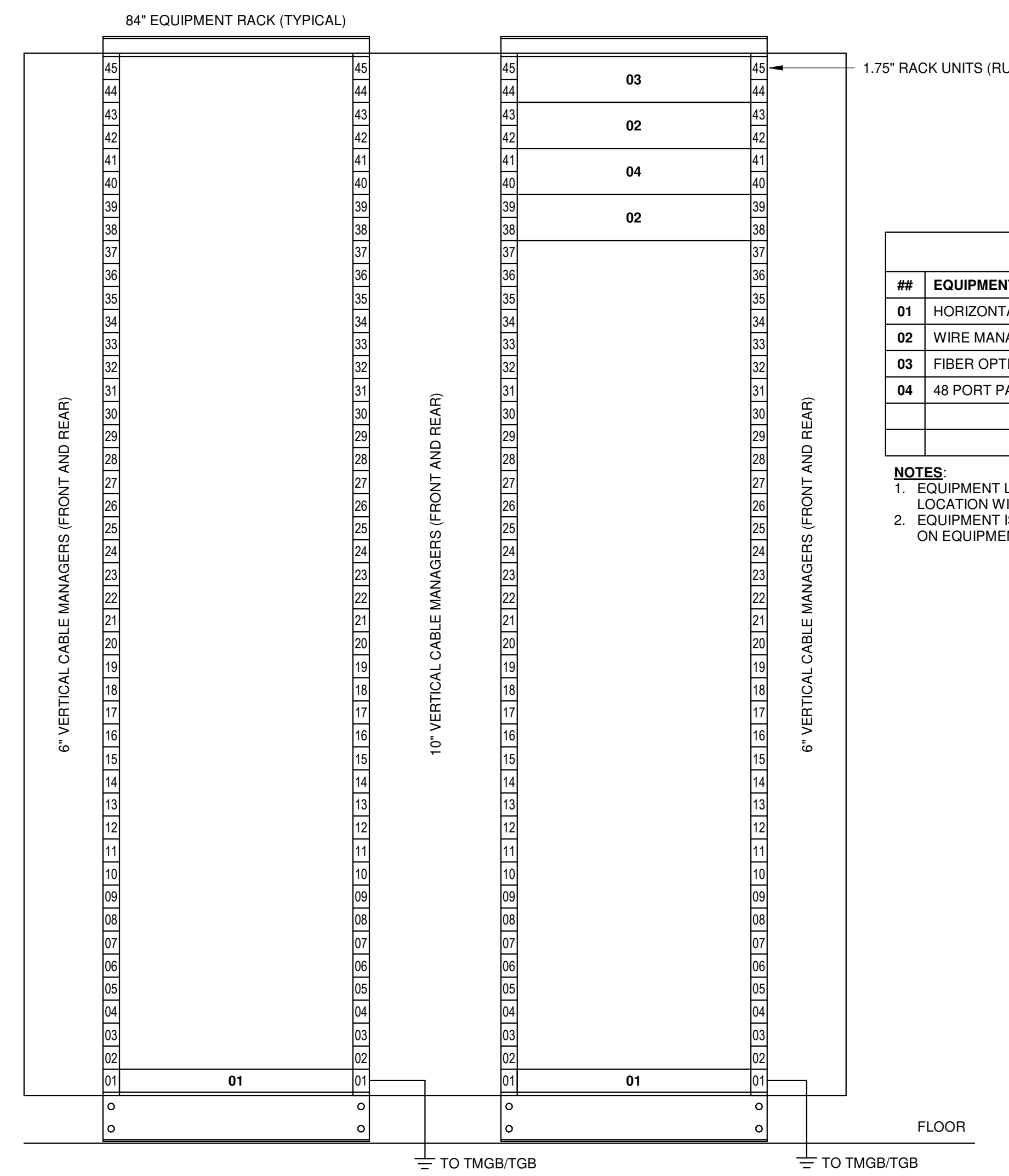
TRUE PLAN NORTH NORTH  
**7 ENLARGED PLAN - DATA 1228 CABLE RUNWAY LAYOUT**  
1/4" = 1'-0"



**4 EAST WALL - DATA 1228**  
1/4" = 1'-0"

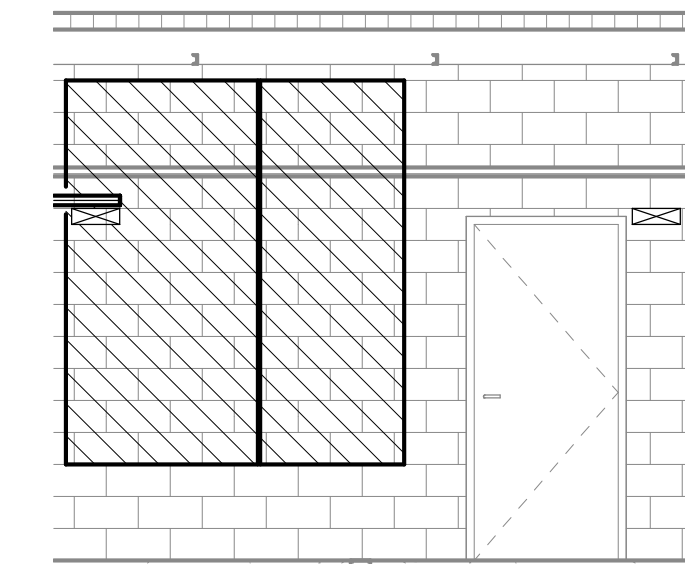
**KEYED NOTES**

9.703 PROVIDE 3/4" 4X8' FIRE RETARDANT A-C GRADE PLYWOOD FOR BACKBOARD ON ALL WALLS IN TECHNOLOGY ROOMS MOUNTED AT 24" AFF.



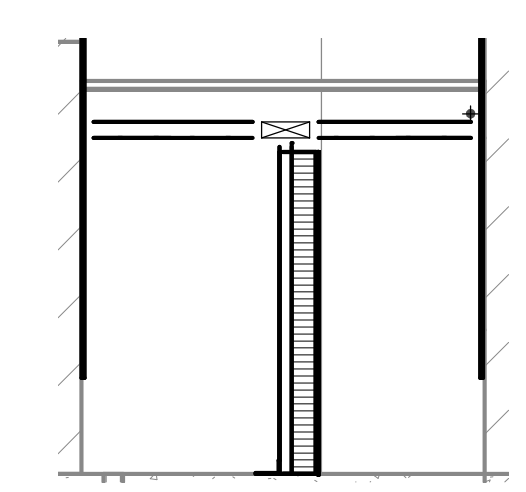
EQUIPMENT SCHEDULE	
##	EQUIPMENT DESCRIPTION
01	HORIZONTAL GROUND BUS BAR
02	WIRE MANAGER
03	FIBER OPTIC TERMINATION
04	48 PORT PATCH PANEL

**NOTES:**  
1. EQUIPMENT LOCATION IS SHOWN TO ILLUSTRATE INTENT. COORDINATE ACTUAL LOCATION WITHIN RACK WITH OWNER PRIOR TO INSTALLATION.  
2. EQUIPMENT IS SHOWN FOR REFERENCE ONLY. ACTUAL QUANTITIES WILL BE BASED ON EQUIPMENT OUTLETS INSTALLED.

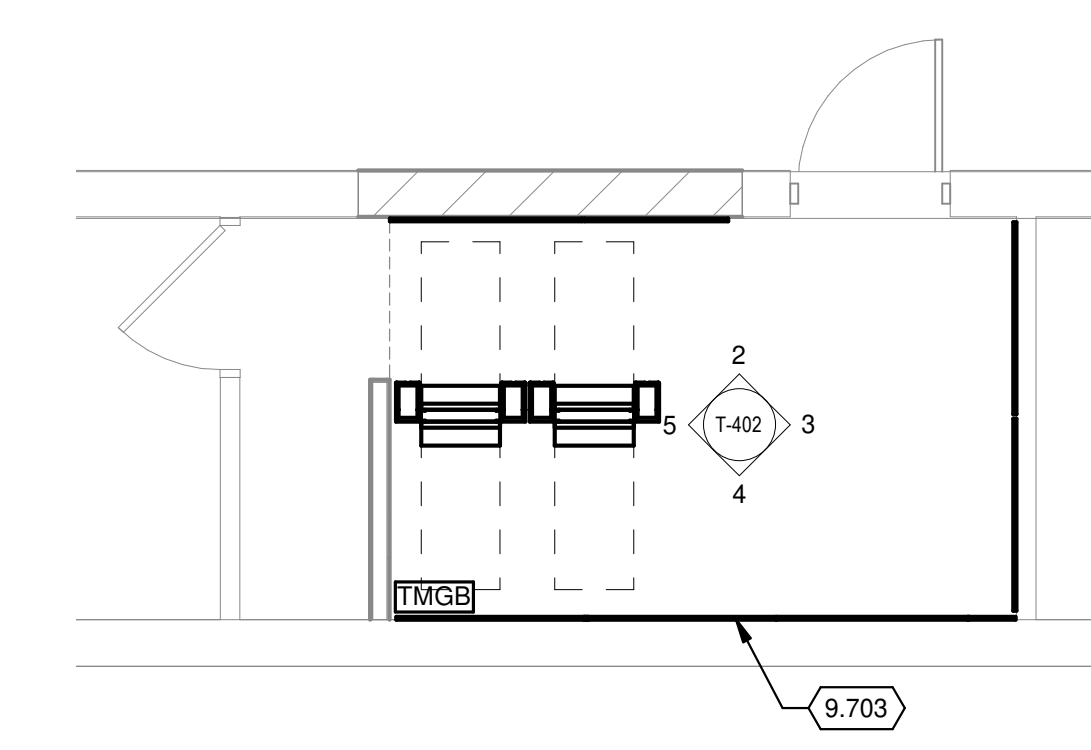


**6 RACK ELEVATIONS - COMM 2121**  
NO SCALE

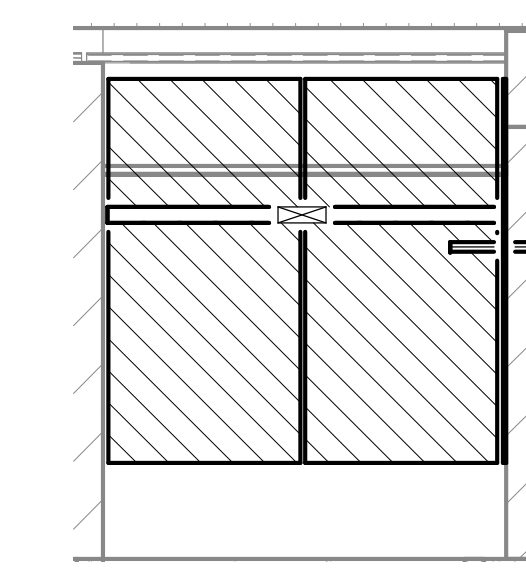
**2 WEST WALL - COMM 2121**  
1/4" = 1'-0"



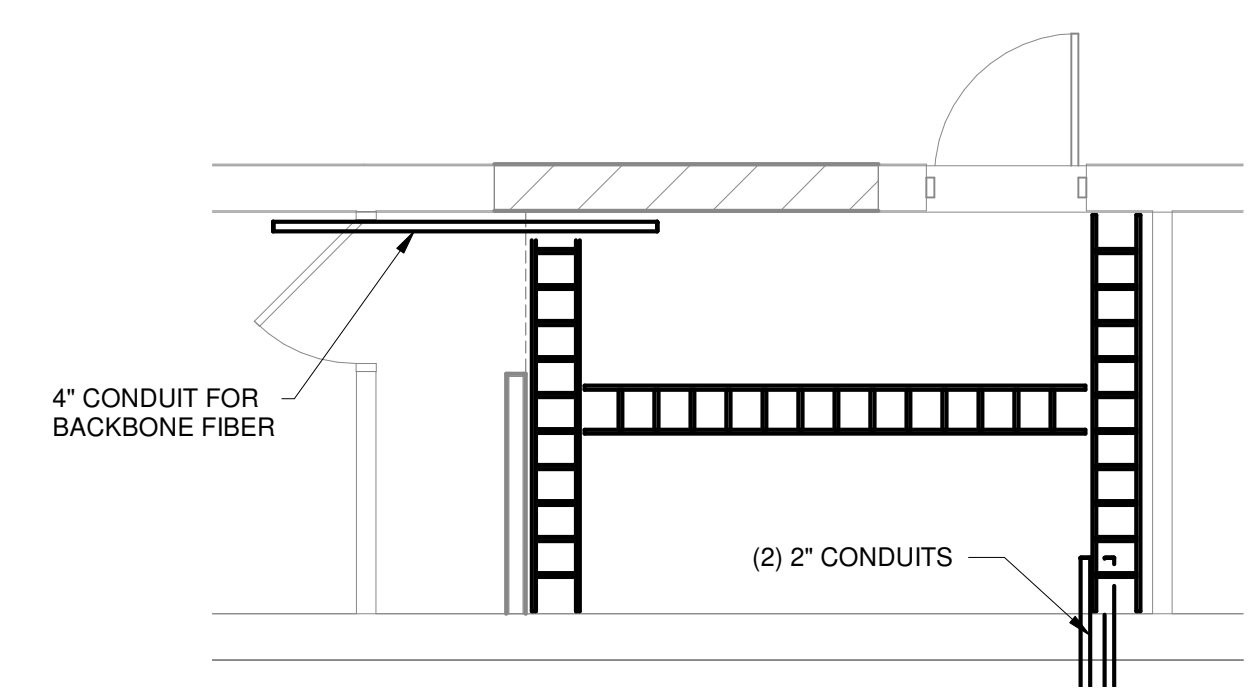
**5 SOUTH WALL - COMM 2121**  
1/4" = 1'-0"



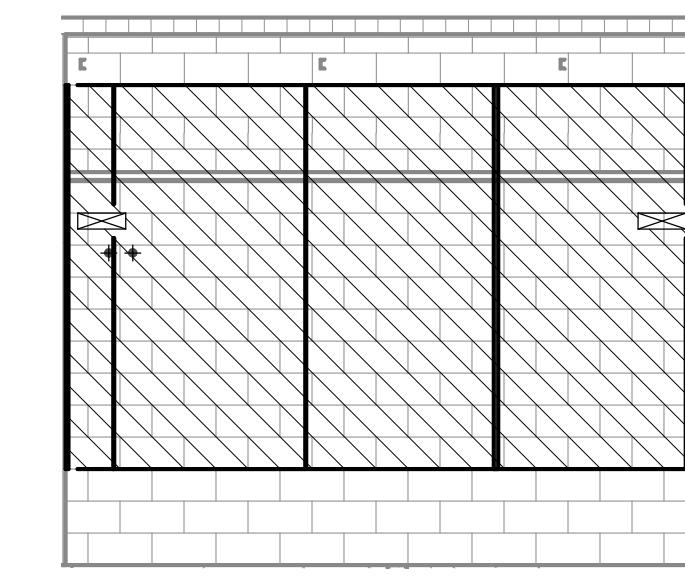
**1 ENLARGED PLAN - COMM 2121**  
1/4" = 1'-0"



**3 NORTH WALL - COMM 2121**  
1/4" = 1'-0"



**7 ENLARGED PLAN - COMM 2121 CABLE RUNWAY LAYOUT**  
1/4" = 1'-0"



**4 EAST WALL - COMM 2121**  
1/4" = 1'-0"

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1101 EAST WASHINGTON AVE.  
MADISON, WI 53703

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CONTRACT NO.: 8981  
M&H NO.: 4503500-1908996.03  
DATE: APRIL 8, 2021  
DESIGNED BY: MJR  
DRAWN BY: RZ  
CHECKED BY: JRM  
DO NOT SCALE DRAWINGS

SHEET CONTENTS  
ENLARGED PLANS, ELEVATIONS & SECTIONS

SHEET NO.:

**T-402**



metro transit

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SHEET CONTENTS  
ENLARGED PLANS,  
ELEVATIONS &  
SECTIONS

SHEET NO.:

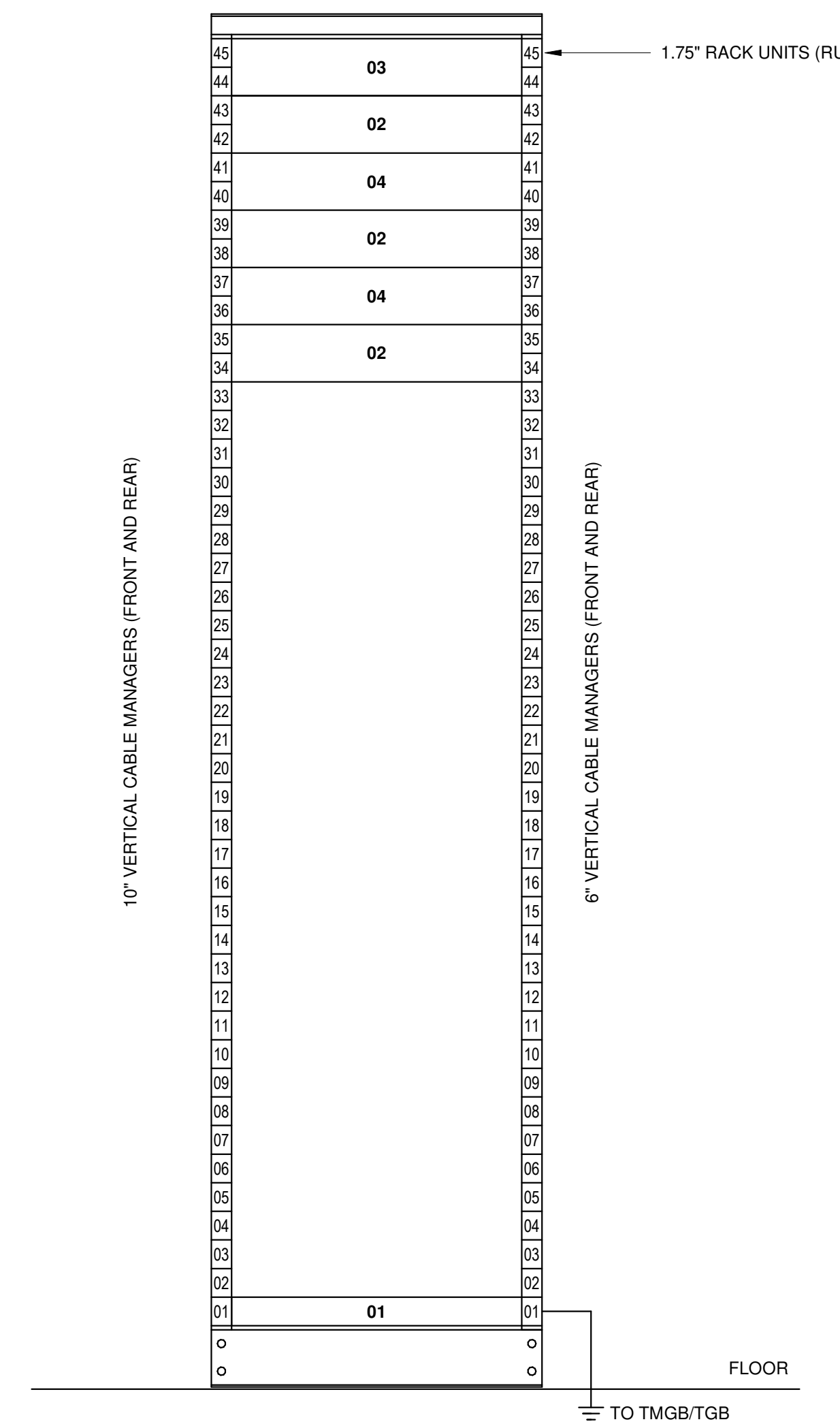
T-403

EQUIPMENT SCHEDULE	
##	EQUIPMENT DESCRIPTION
01	HORIZONTAL GROUND BUS BAR
02	WIRE MANAGER
03	FIBER OPTIC TERMINATION
04	48 PORT PATCH PANEL

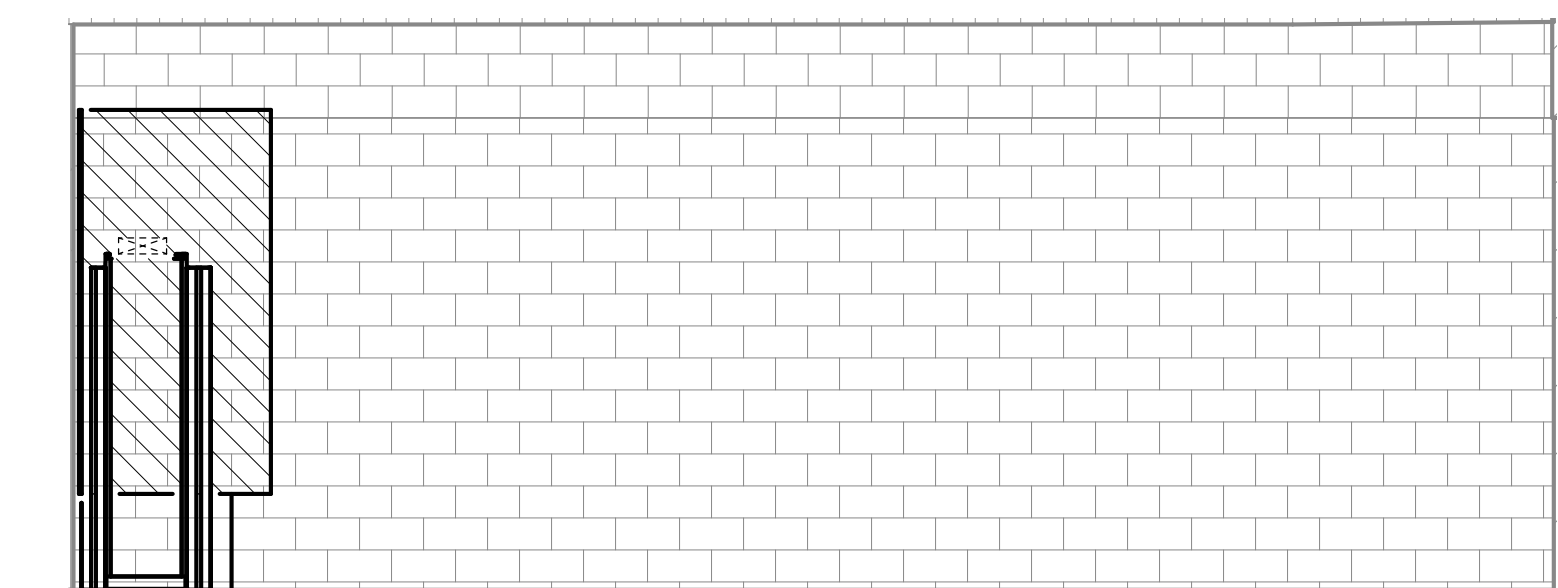
**NOTES**  
1. EQUIPMENT LOCATION IS SHOWN TO ILLUSTRATE INTENT. COORDINATE ACTUAL LOCATION WITHIN RACK WITH OWNER PRIOR TO INSTALLATION.  
2. EQUIPMENT IS SHOWN FOR REFERENCE ONLY. ACTUAL QUANTITIES WILL BE BASED ON EQUIPMENT OUTLETS INSTALLED.

**KEYED NOTES**

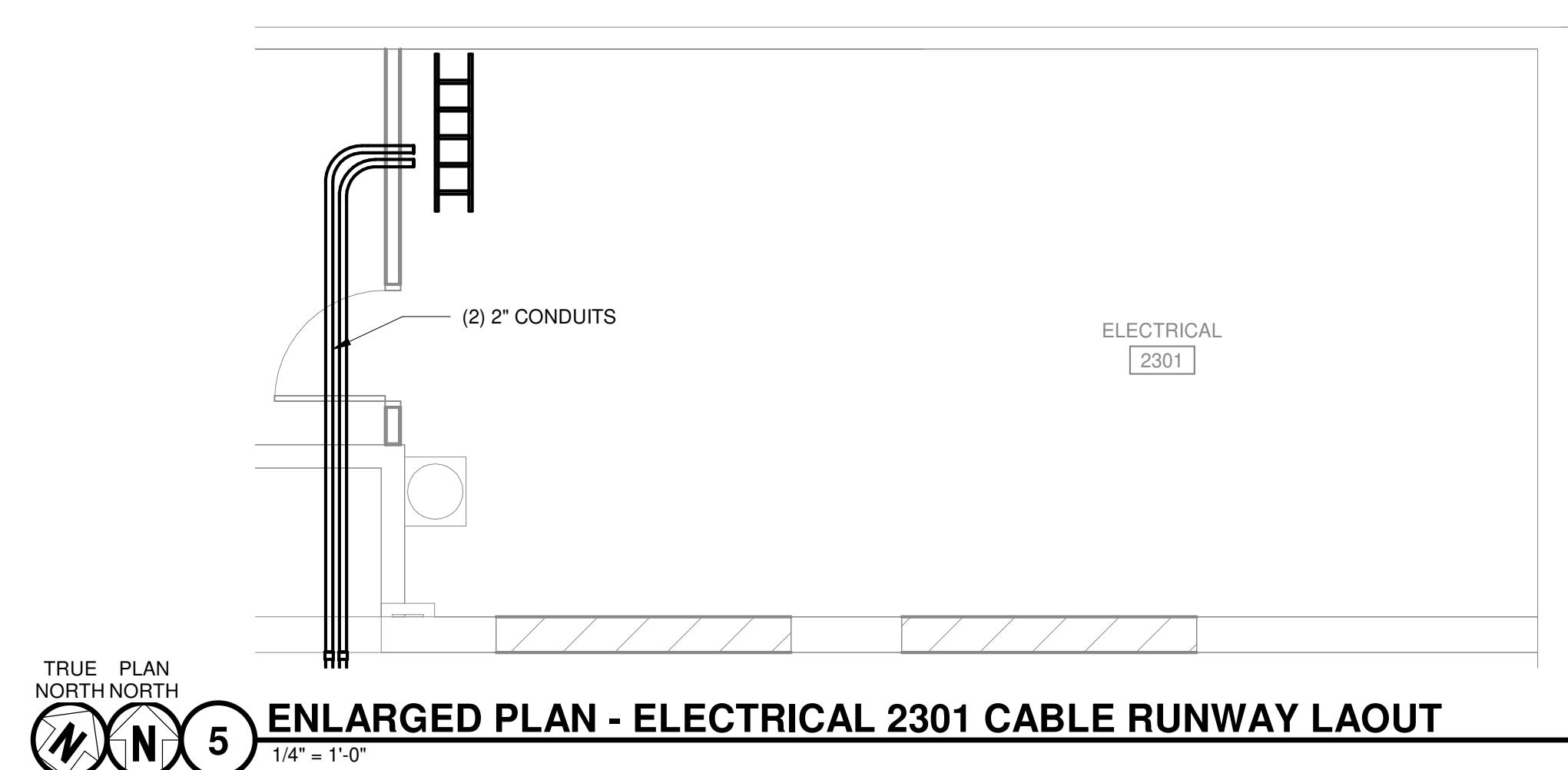
9.703 PROVIDE 3/4" 4'X8' FIRE RETARDANT A-C GRADE PLYWOOD FOR BACKBOARD ON ALL WALLS IN TECHNOLOGY ROOMS MOUNTED AT 24" AFF.



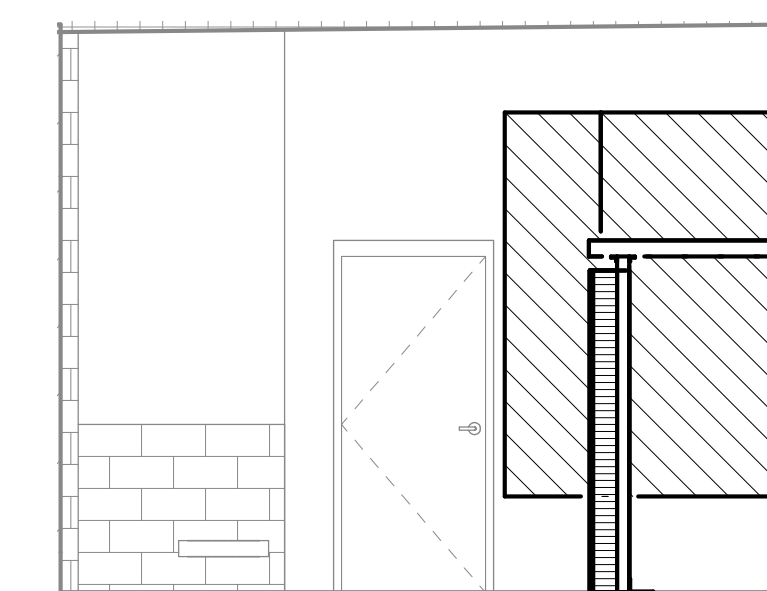
**4 RACK ELEVATIONS - ELECTRICAL ROOM 2301**  
NO SCALE



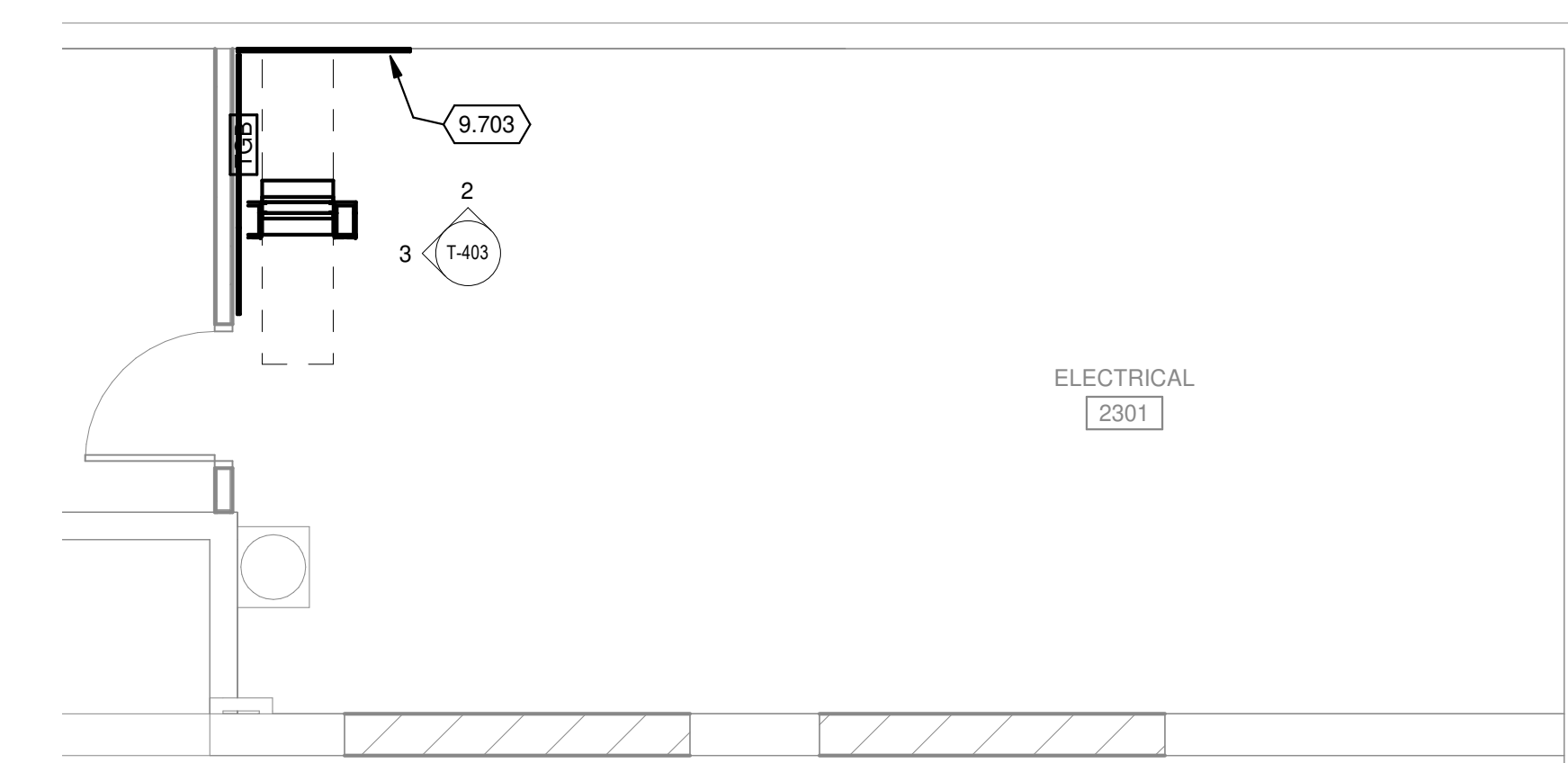
**2 NORTH WALL - ELECTRICAL 2301**  
1/4" = 1'-0"



**5 ENLARGED PLAN - ELECTRICAL 2301 CABLE RUNWAY LAOUT**  
1/4" = 1'-0"



**3 EAST WALL - ELECTRICAL 2301**  
1/4" = 1'-0"



**1 ENLARGED PLAN - ELECTRICAL 2301**  
1/4" = 1'-0"

**KEYED NOTES**

9.703 PROVIDE 3/4" X 3/8" FIRE RETARDANT A-C GRADE PLYWOOD FOR BACKBOARD ON ALL WALLS IN TECHNOLOGY ROOMS MOUNTED AT 24" AFF.

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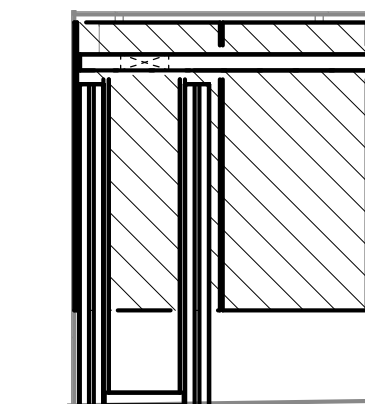
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DESIGNED BY: MJR  
DRAWN BY: RZ  
CHECKED BY: JRM  
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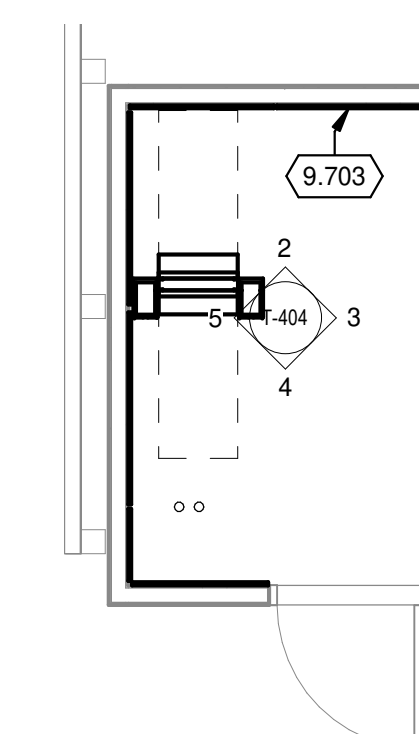
SHEET CONTENTS  
ENLARGED PLANS,  
ELEVATIONS &  
SECTIONS

SHEET NO.:

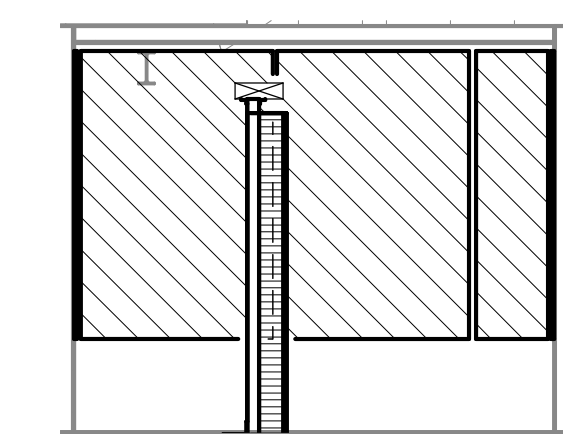
T-404



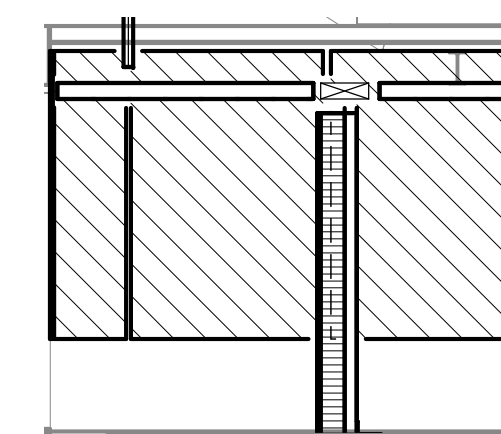
**2 NORTH WALL - DATA 1701**  
1/4" = 1'-0"



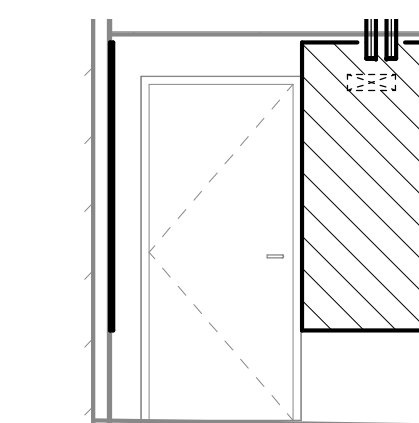
TRUE PLAN  
NORTH NORTH  
**1 ENLARGED PLAN - COMM 1701**  
1/4" = 1'-0"



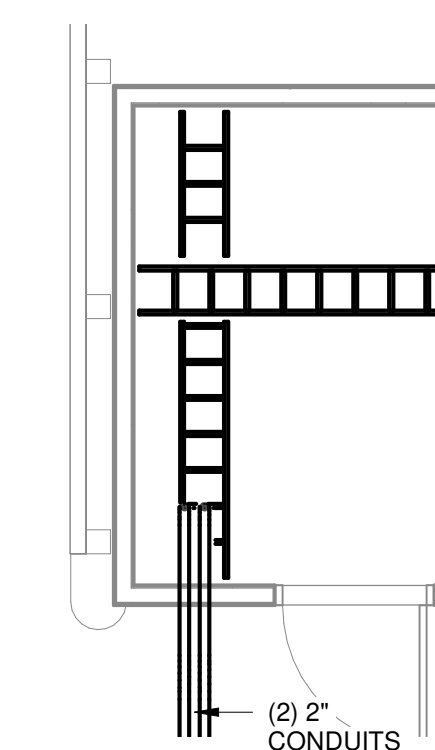
**3 EAST WALL - DATA 1701**  
1/4" = 1'-0"



**5 WEST WALL - DATA 1701**  
1/4" = 1'-0"



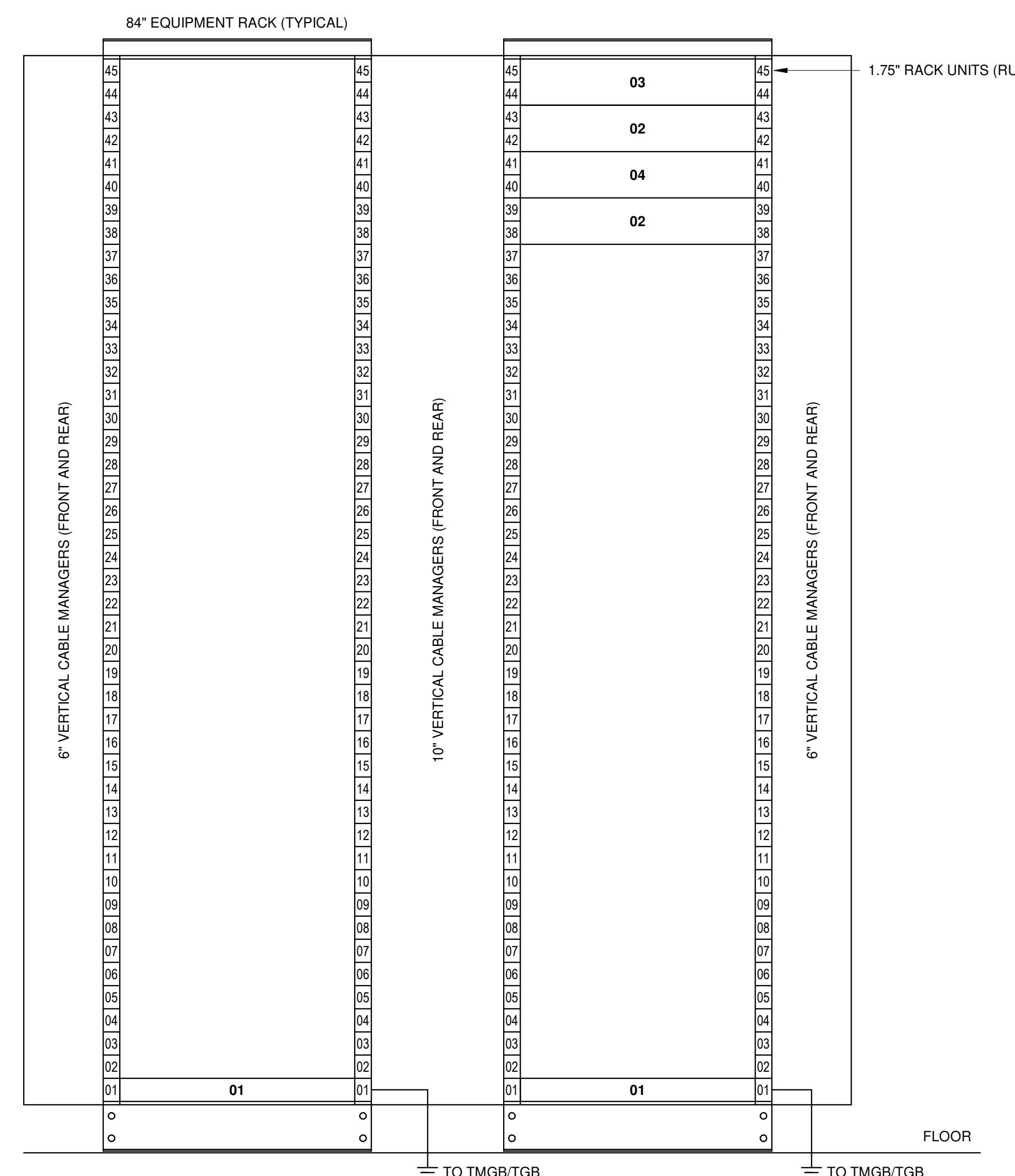
**4 SOUTH WALL - DATA 1701**  
1/4" = 1'-0"



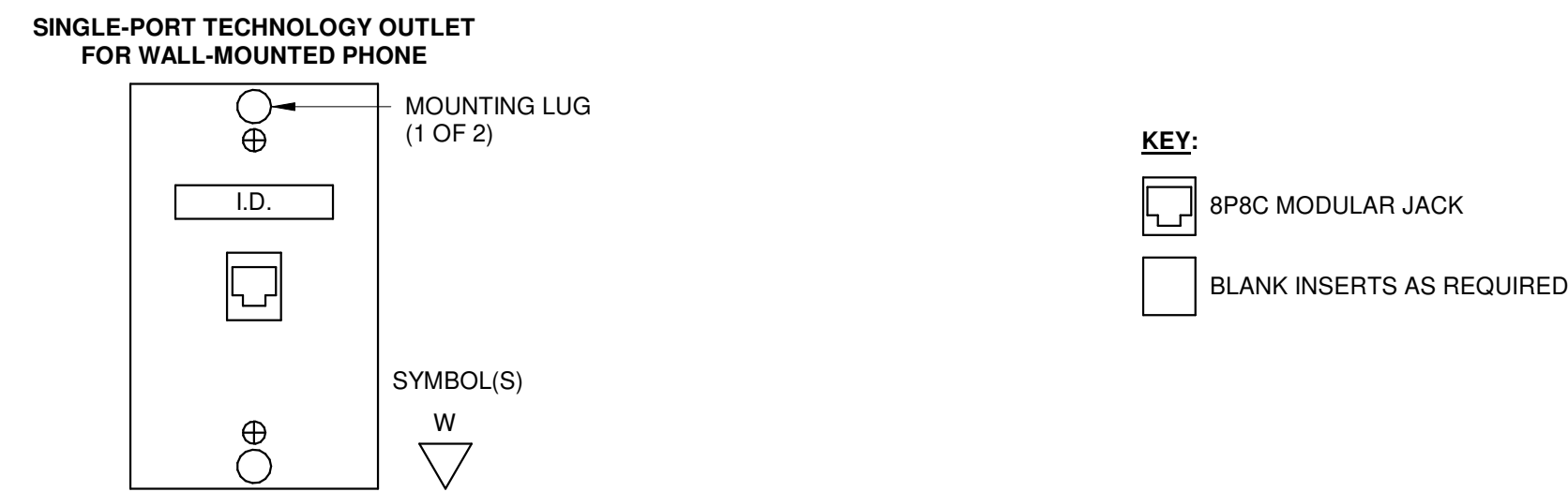
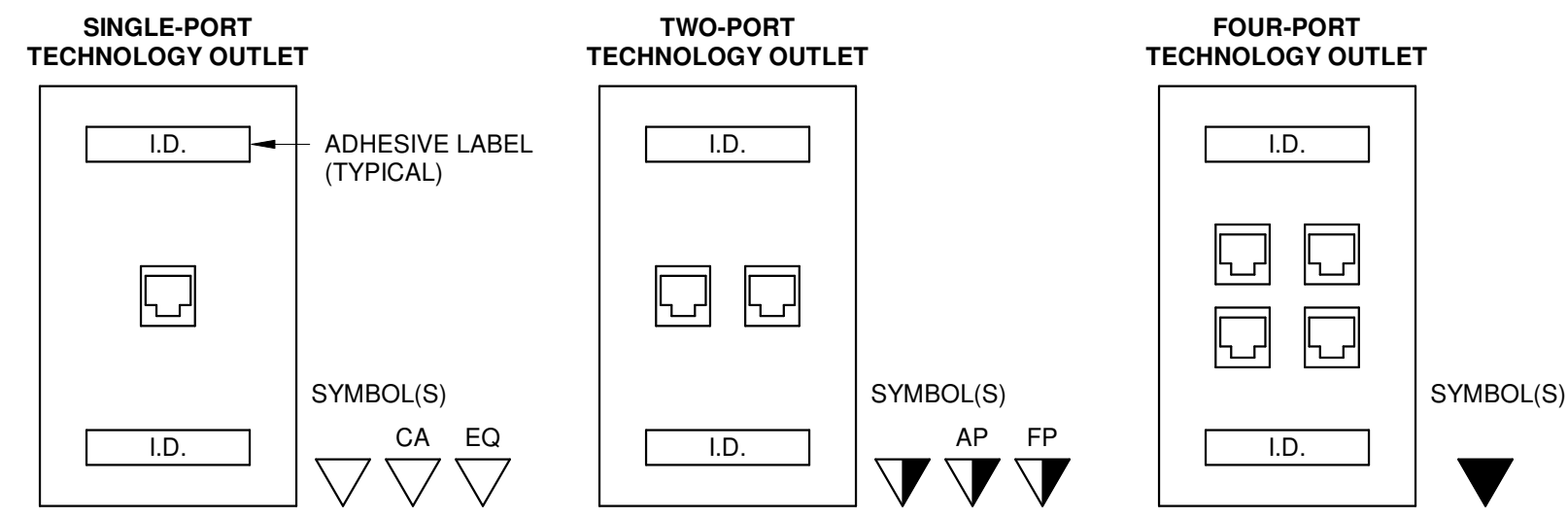
**6 ENLARGED PLAN - COMM 1701 CABLE RUNWAY LAYOUT**  
1/4" = 1'-0"

EQUIPMENT SCHEDULE	
##	EQUIPMENT DESCRIPTION
01	HORIZONTAL GROUND BUS BAR
02	WIRE MANAGER
03	FIBER OPTIC TERMINATION
04	48 PORT PATCH PANEL

**NOTES:**  
1. EQUIPMENT LOCATION IS SHOWN TO ILLUSTRATE INTENT. COORDINATE ACTUAL LOCATION WITHIN RACK WITH OWNER PRIOR TO INSTALLATION.  
2. EQUIPMENT IS SHOWN FOR REFERENCE ONLY. ACTUAL QUANTITIES WILL BE BASED ON EQUIPMENT OUTLETS INSTALLED.

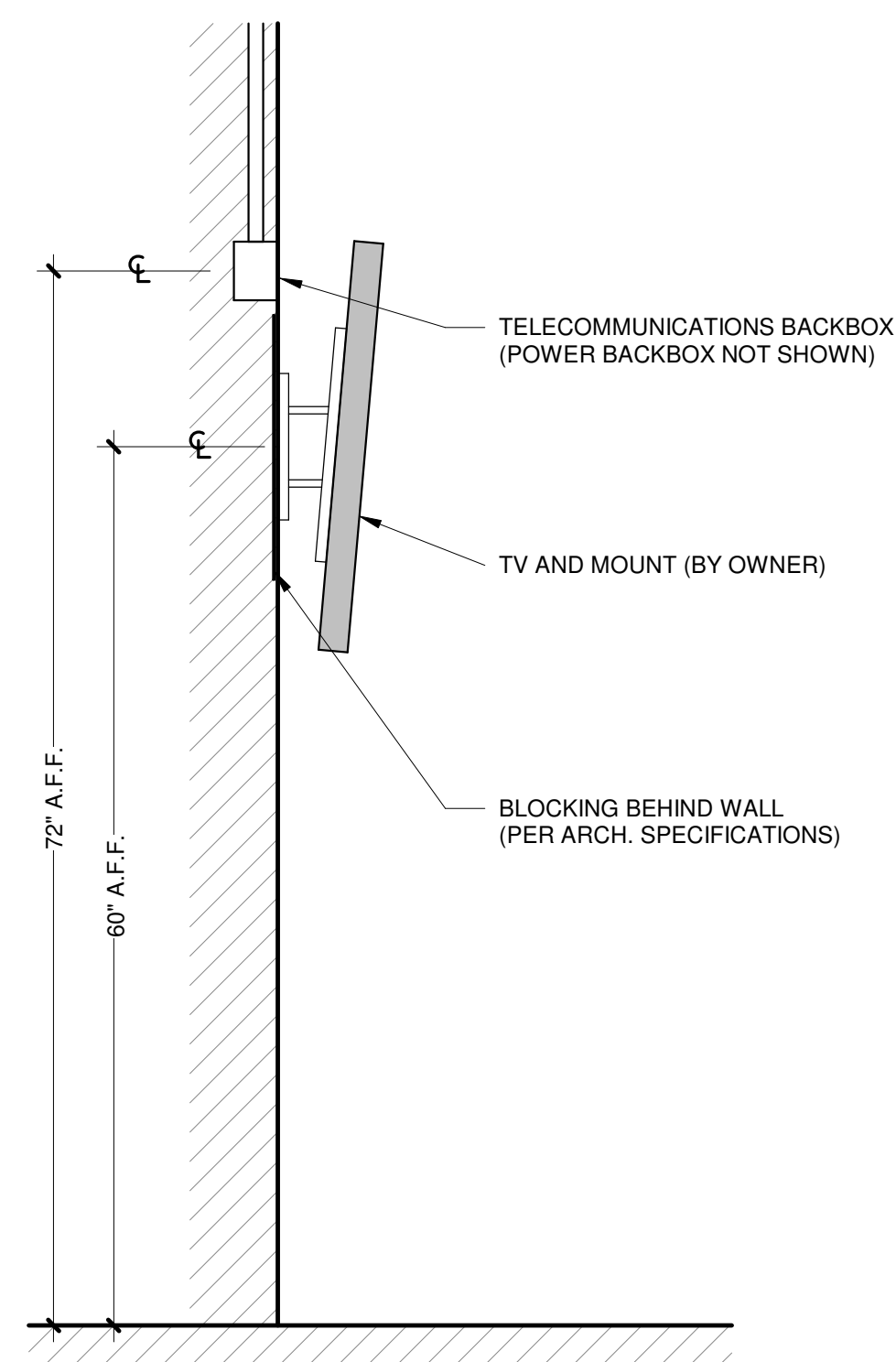


**7 RACK ELEVATIONS - COMM 1701**  
1 1/2" = 1'-0"

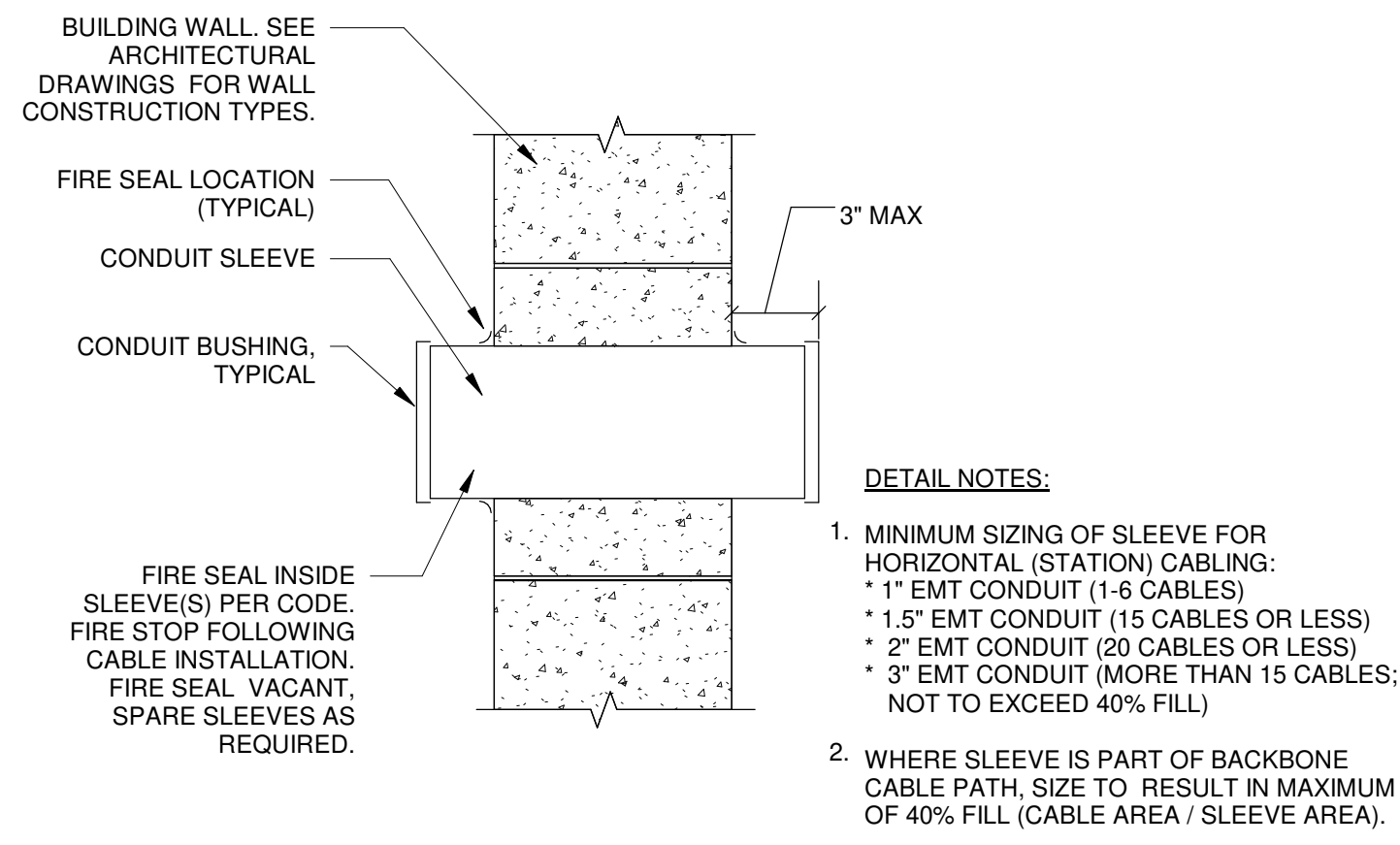


**NOTES:**  
1. REFER TO DIVISION 27 SPECIFICATIONS FOR PERFORMANCE, PIN/PAIR ASSIGNMENTS, MATERIAL, AND COLOR.

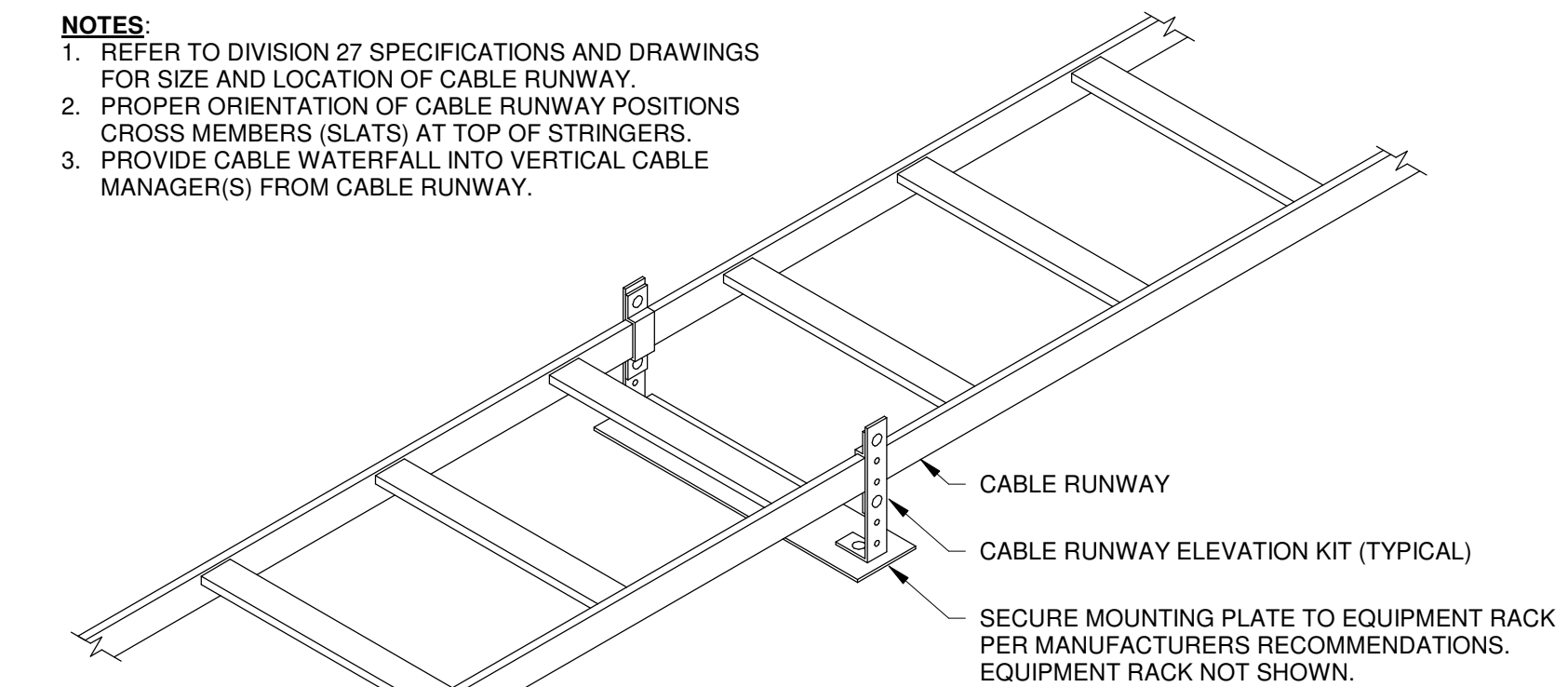
**7 TECHNOLOGY OUTLET CONFIGURATIONS**  
NO SCALE



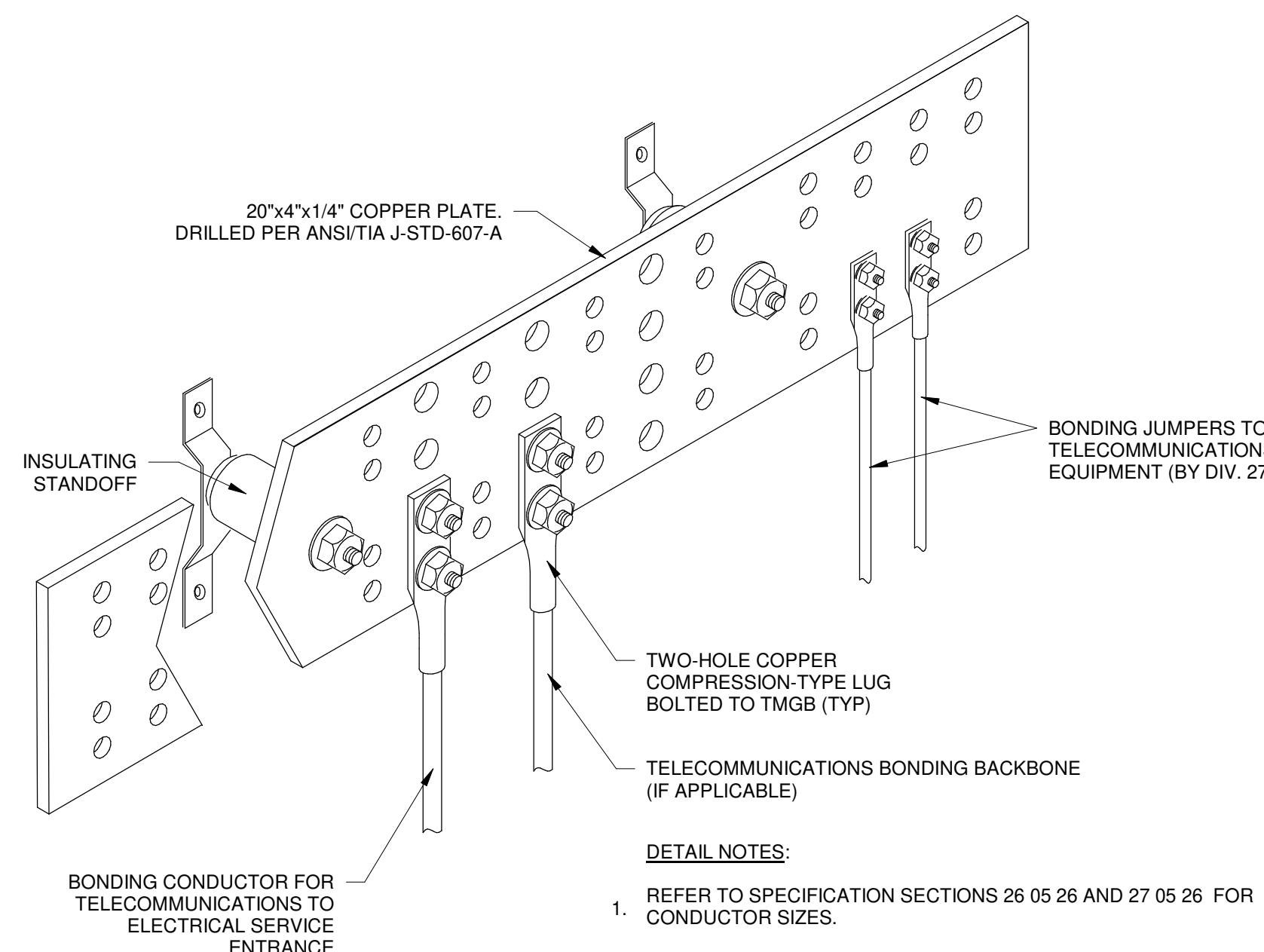
**8 FLUSH WALL-MOUNTED DISPLAY DETAIL**  
NO SCALE



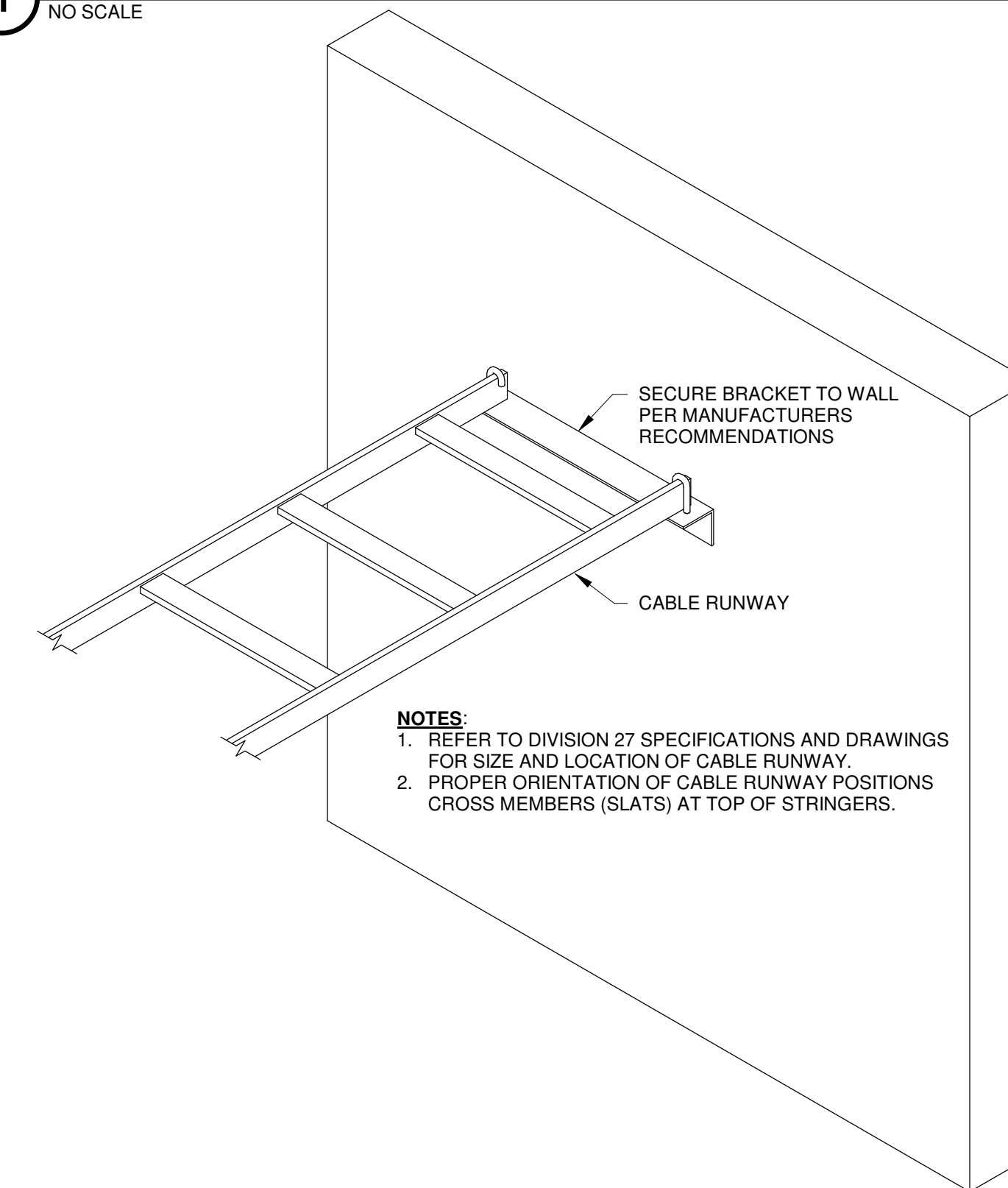
**4 WALL PENETRATION SLEEVE**  
NO SCALE



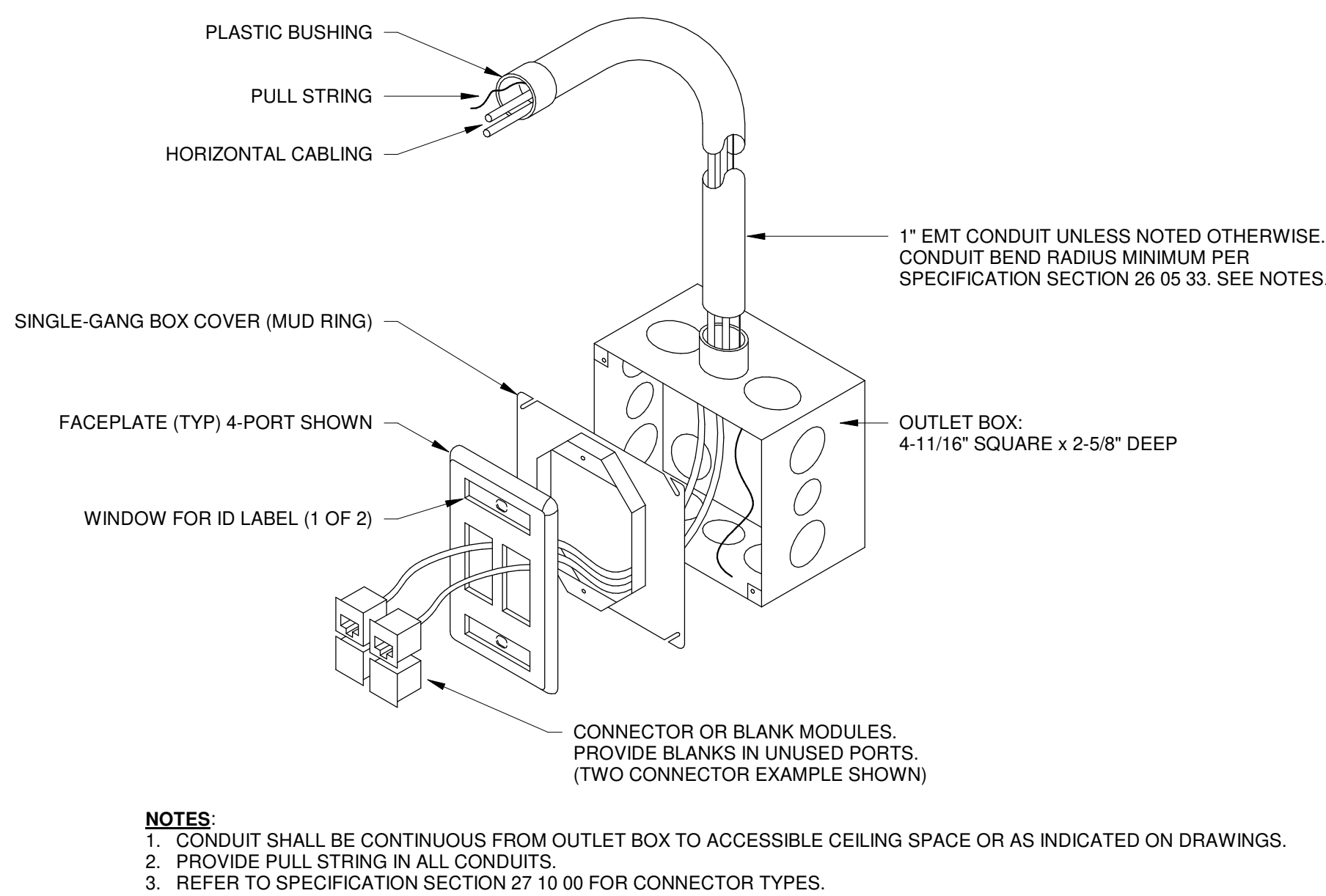
**1 CABLE RUNWAY - RACK-MOUNT**  
NO SCALE



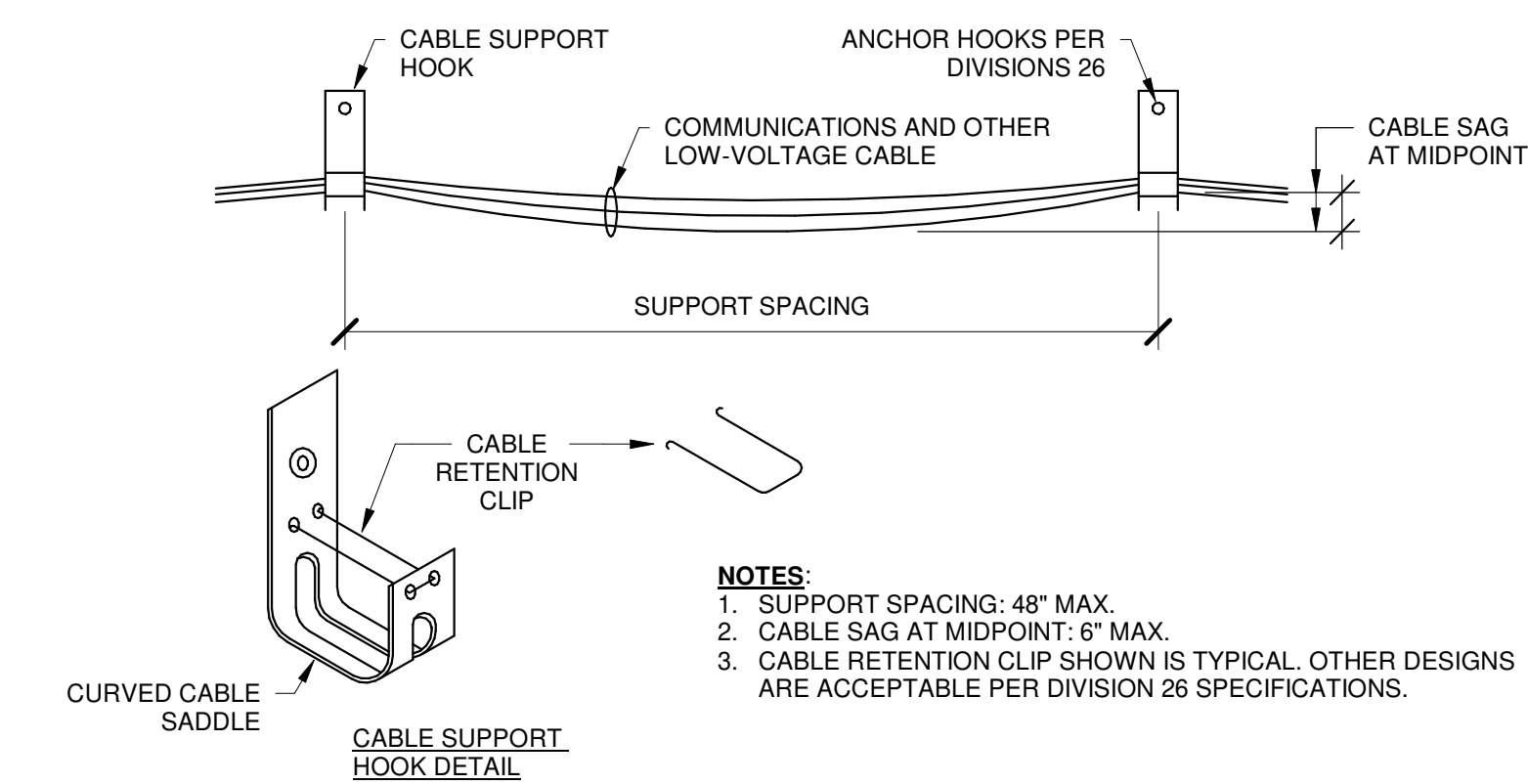
**5 TMGB**  
NO SCALE



**2 CABLE RUNWAY - WALL BRACKET**  
NO SCALE



**6 DOA - EQUIPMENT OUTLET ROUGH-IN**  
NO SCALE



**3 TECHNOLOGY OUTLET PATHWAY - J-HOOKS**  
NO SCALE





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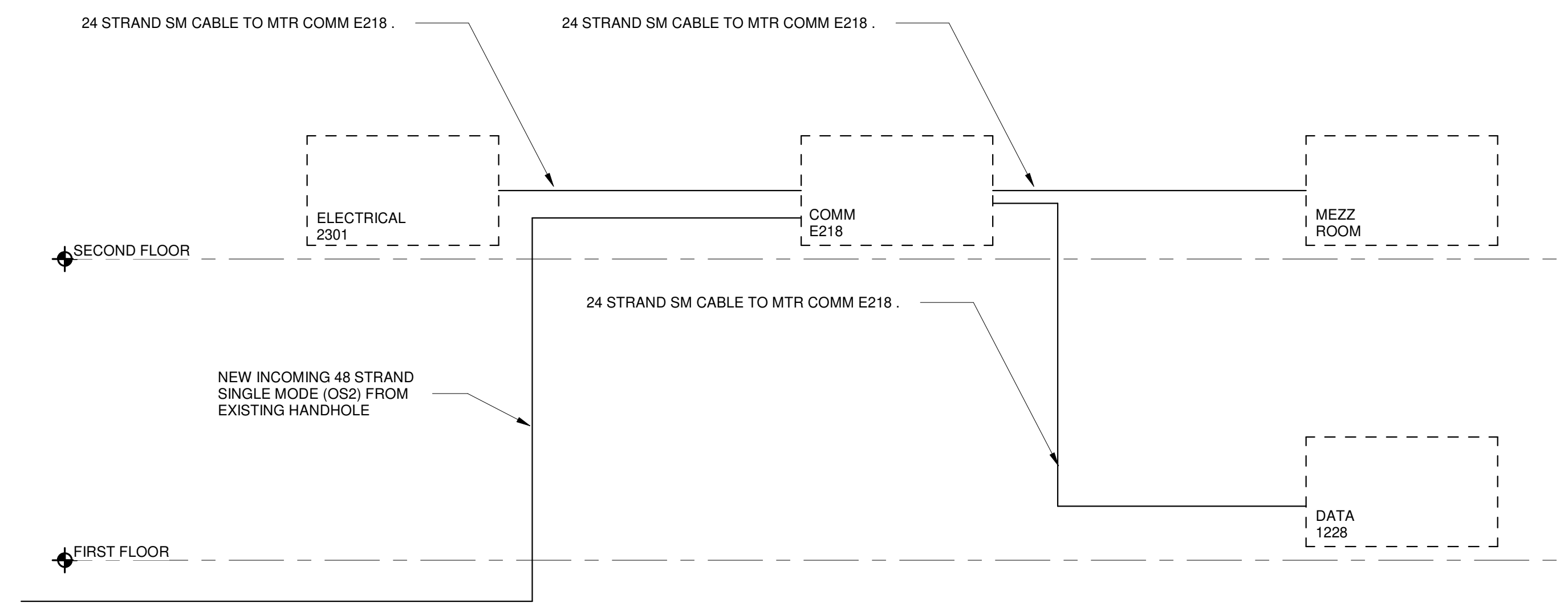
SHEET CONTENTS  
ONE-LINE DIAGRAMS

SHEET NO.:

T-701

**GENERAL NOTES:**

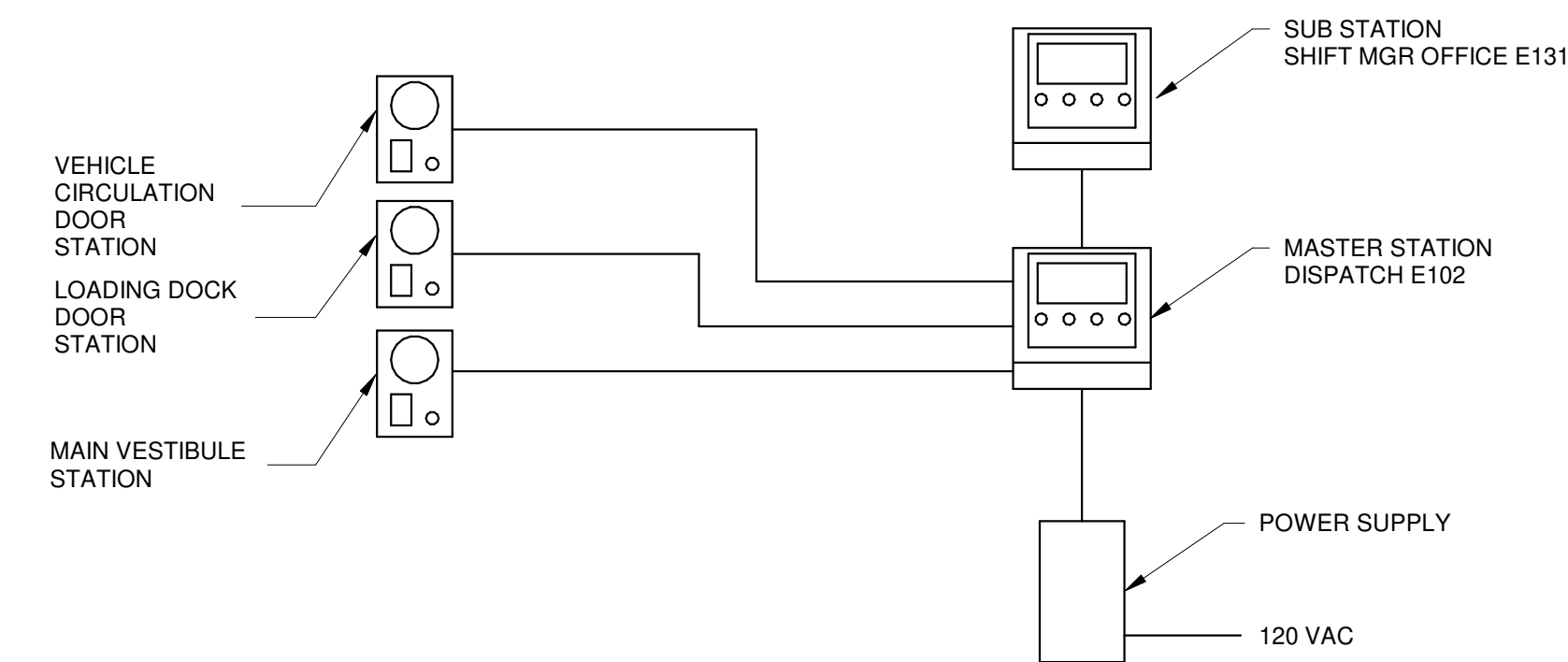
1.



**1 FIBER DATA RISER**  
NO SCALE

**NOTES:**

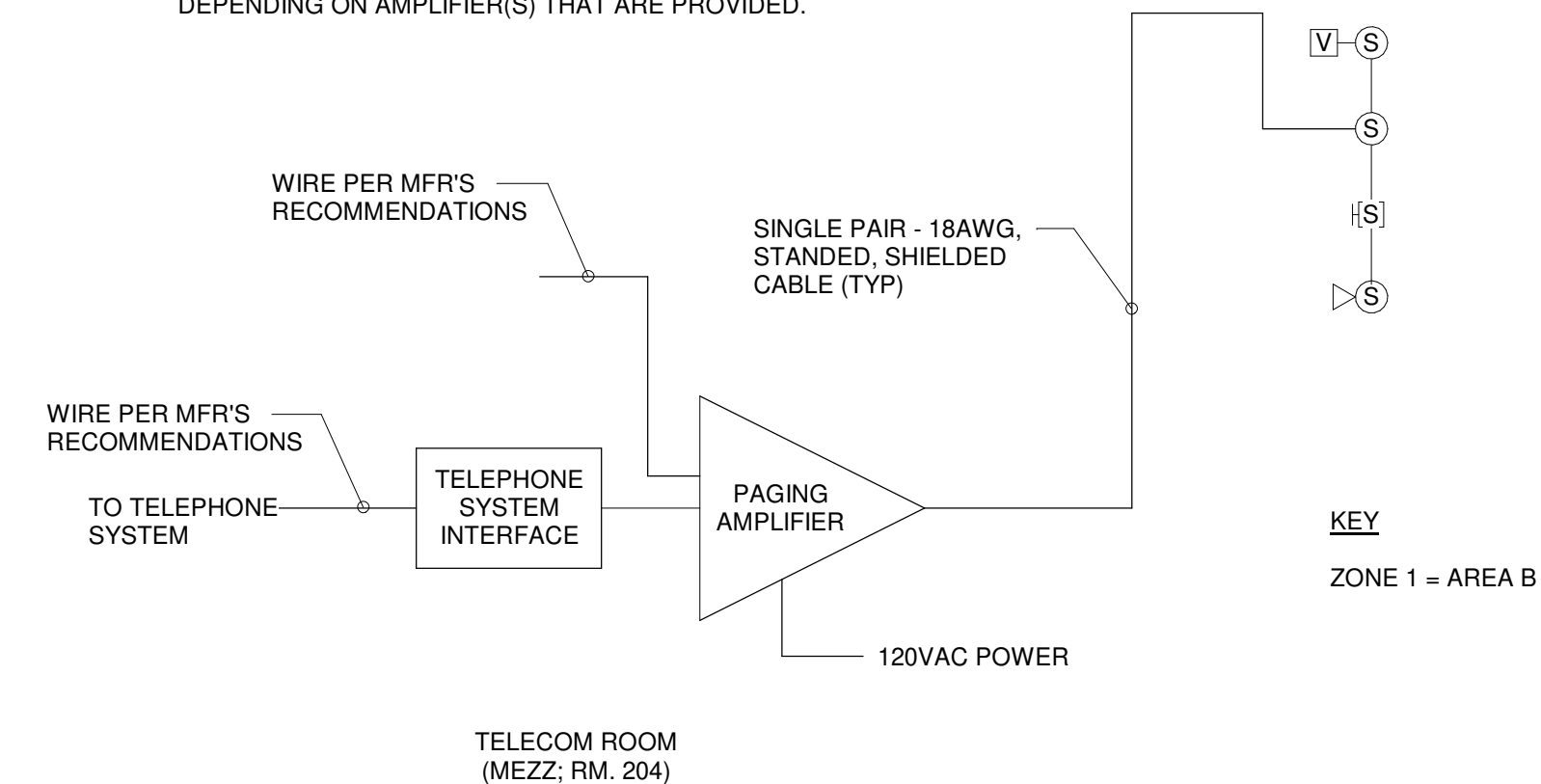
1. SEE SHEETS T-121A AND T-121B FOR LOCATIONS OF DOOR/GATE STATIONS, SUB-STATIONS AND MASTER STATION.
2. ALL CABLING SHALL BE AS RECOMMENDED BY THE MANUFACTURER.



**2 INTERCOM ONE-LINE DIAGRAM**  
NO SCALE

**PUBLIC ADDRESS SYSTEM NOTES:**

1. SPEAKER CIRCUITS AS SHOWN ARE DIAGRAMMATIC AND TO SHOW INTENT. CONFIGURATION MAY VARY DEPENDING ON AMPLIFIER(S) THAT ARE PROVIDED.



**3 PA - ONE-LINE DIAGRAM - PLN**  
NO SCALE