# DAS CC IDALS HOOVER 5TH FLOOR RENOVATION

ISG

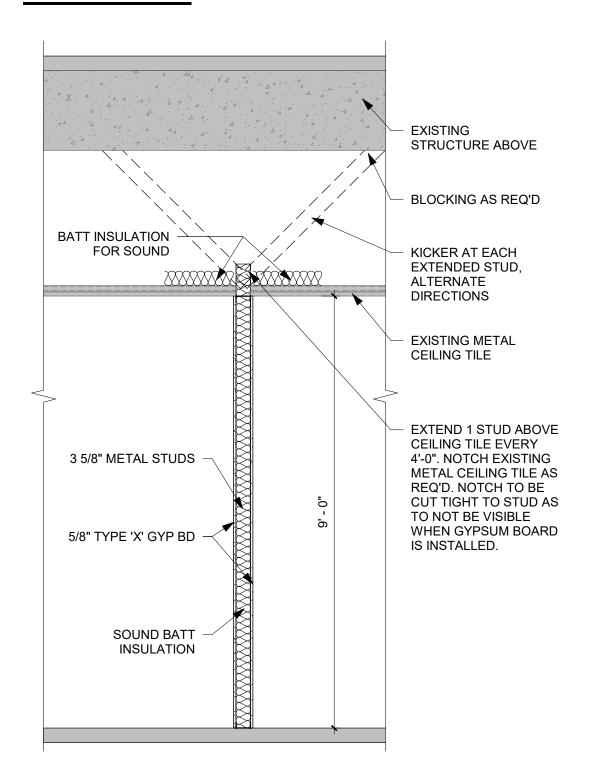
# DES MOINES, IOWA

**DAS PROJECT #9426.00** 

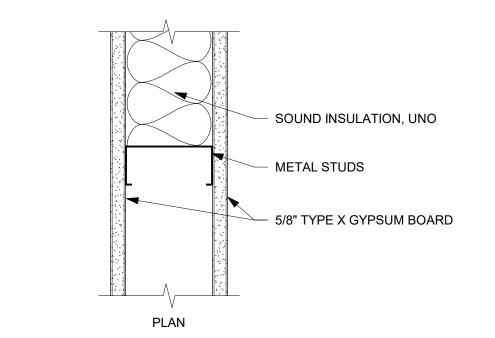
RFP: 942600-01

# East Mage Rook Apariments a Walnut St a Wa

# **VICINITY MAP**



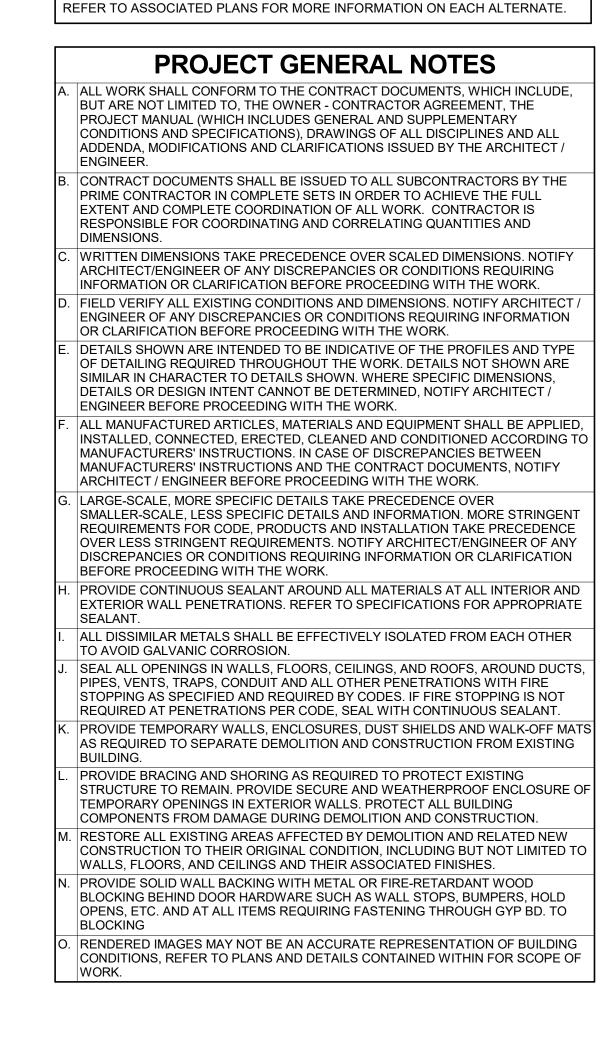




WALL TYPE	STUD DESIGNATION	SPACING	MAX. HEIGHT (5 PSF, L/240)	SOUND TRANSMISSION (STC)	FIRE RATING / UL DESIGN		
(A3)	362S125-30	16"	15'-6"				
(A6)	600S125-30	16"	22'-11"				
NOTES:  1. REFER TO DETAIL 1/ G1-10 FOR TOP OF WALL BRACING AT ALL WALLS U.N.O.							

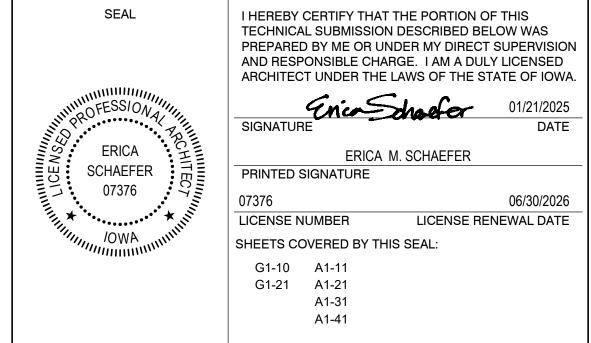
(A) WALL TYPE A (METAL STUD PARTITION)

#### **SHEET INDEX** SHEET TITLE G1-10 TITLE SHEET, SHEET INDEX, PROJECT GENERAL NOTES G1-21 CODE DATA AND CODE DATA PLAN ARCHITECTURAL A1-11 LEVEL 5 DEMOLITION PLAN A1-21 LEVEL 5 FLOOR PLAN A1-31 LEVEL 5 REFLECTED CEILING PLAN AND DETAILS A1-41 LEVEL 5 FINISH PLAN & SCHEDULE MP0-01 DIV 21,22,23 SYMBOLS / ABBREVIATIONS P1-11 FIFTH FLOOR PLUMBING DEMOLITION PLAN P2-10 FOURTH FLOOR PLUMBING PLAN P2-11 FIFTH FLOOR PLUMBING PLAN P6-11 PLUMBING ISOMETRICS, DETAILS, SCHEDULES, AND SPECIFICATIONS FP2-11 FIFTH FLOOR FIRE PROTECTION PLAN M1-11 FIFTH FLOOR MECHANICAL DEMOLITION PLAN M2-11 FIFTH FLOOR MECHANICAL PLAN M4-11 MECHANICAL DETAILS M5-11 MECHANICAL SCHEDULES AND SPECIFICATIONS E1-11 LEVEL 5 ELECTRICAL DEMOLITION PLAN E2-11 LEVEL 5 POWER AND FIRE ALARM PLAN E2-12 LEVEL 5 POWER DEVICE DIMENSIONS E2-21 LEVEL 5 LIGHTING PLAN E4-10 ELECTRICAL SYMBOLS, SCHEDULES, AND DETAILS T2-11 FIFTH FLOOR TECHNOLOGY PLAN T2-21 LEVEL 5 SOUND MASKING FLOOR PLAN T3-11 TECHNOLOGY ENLARGEMENTS AND DETAILS T6-11 TECHNOLOGY DETAILS, RISERS, AND MATERIAL SCHEDULES BID ALTERNATE #1 BASE BID: NO SOUND MASKING IN WORK AREA.

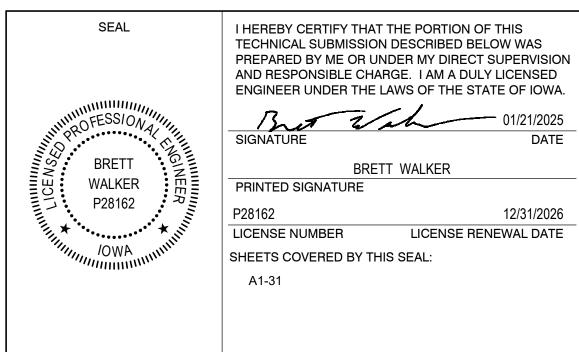


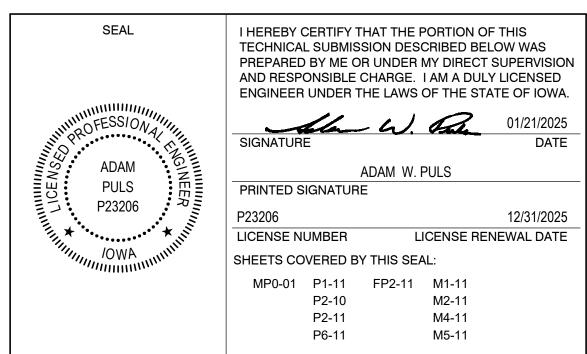
BASE BID: REUSE EXISTING THERMOSTATS.

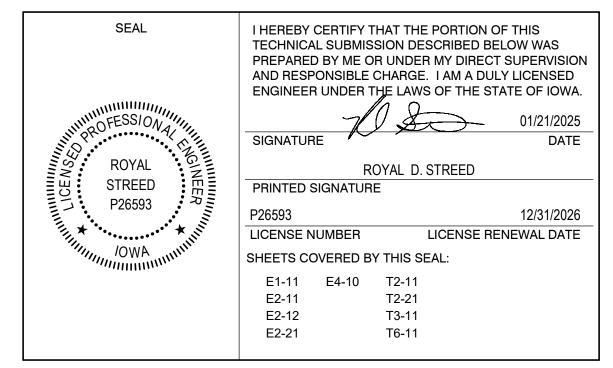
BID ALTERNATE: REPLACE THERMOSTATS AS IDENTIFIED IN DRAWINGS.



**ISG PROJECT # 24-31954** 







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PROJECT

DES MOINES

DAS CC IDALS
HOOVER
5TH FLOOR
RENOVATION

REVISION SCHEDULE

DATE	DI	ESCRIPTION	BY
PROJECT N	IO.	24-31954	
FILE NAME			
DRAWN BY		KKT	
DESIGNED	BY	KKT	
REVIEWED	BY	EMS	
ORIGINAL IS	SSUE DATE	01/21/2025	
CLIENT PRO	NECT NO	9426.00	

TITLE

TITLE SHEET,
SHEET INDEX,
PROJECT
GENERAL NOTES

SHEET

**G1-10** 

# **PROJECT INDEX:**

OWNER:

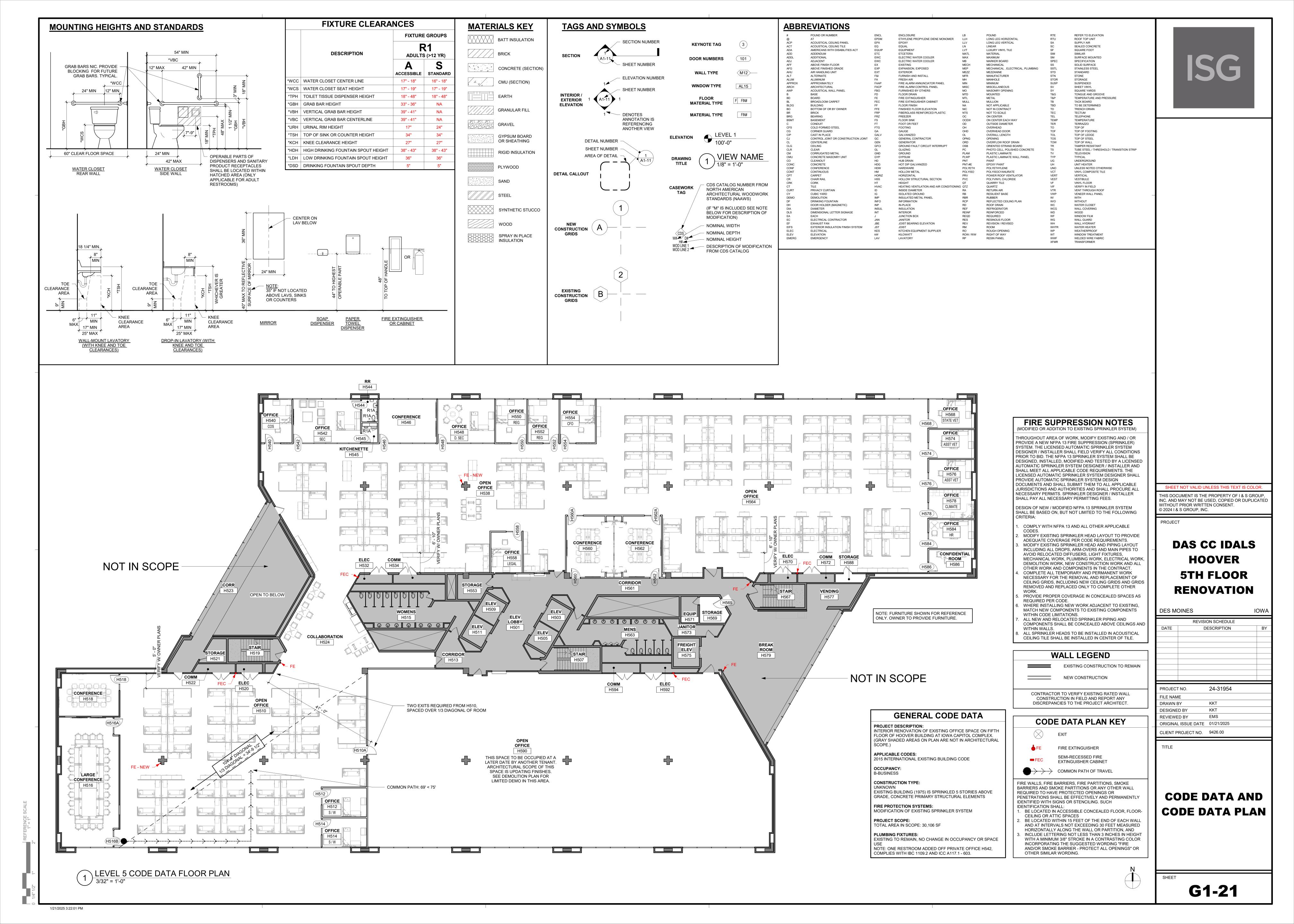
IOWA DEPT OF ADMINISTRATIVE SERVICES MICHAEL BRADBURY 1305 EAST WALNUT STREET DES MOINES, IOWA 50319 PHONE # PROJECT ADDRESS:

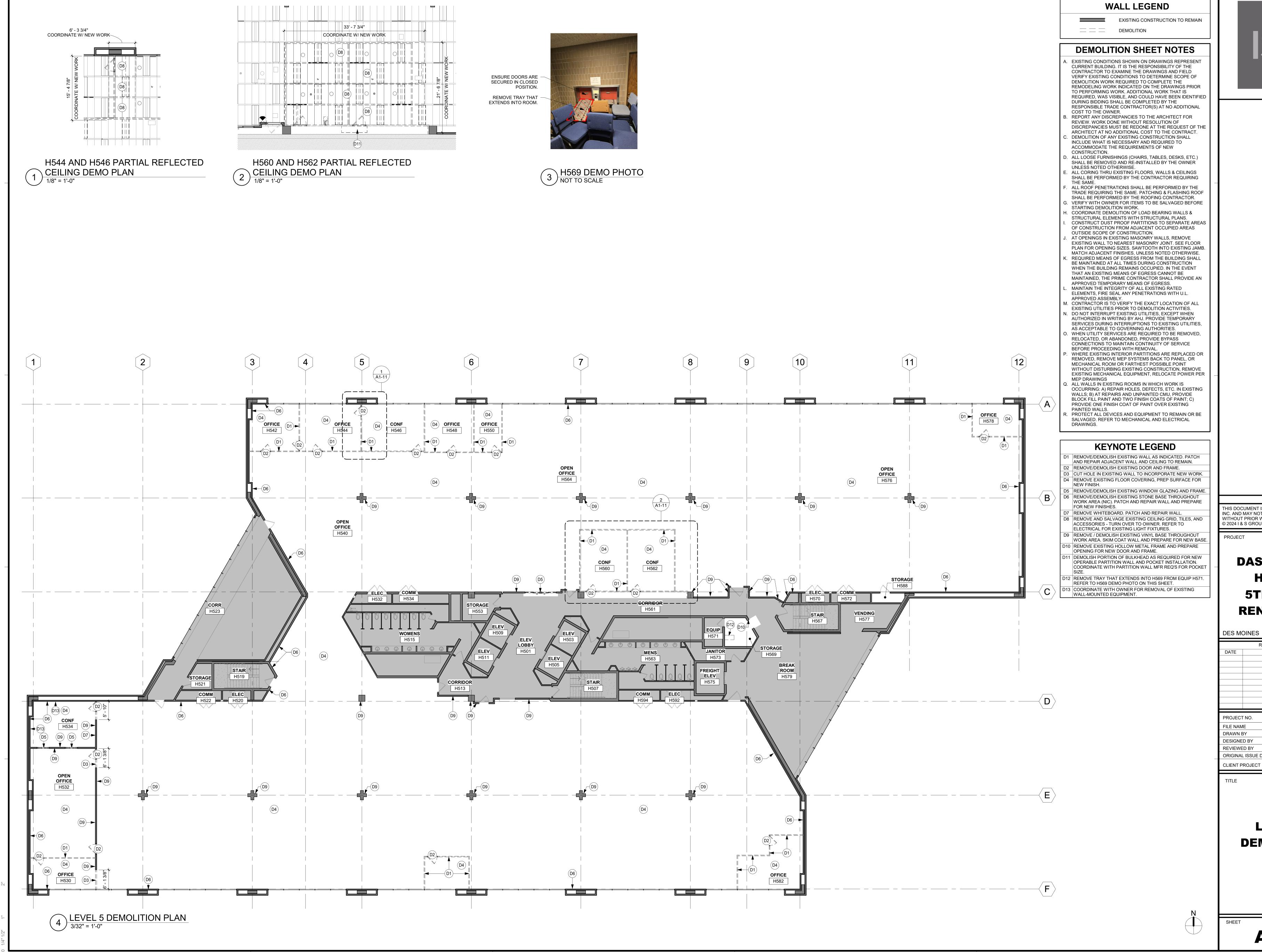
HOOVER STATE OFFICE BUILDING 1305 EAST WALNUT STREET DES MOINES, IOWA 50319 MANAGING OFFICE:



DES MOINES OFFICE
217 EAST 2ND STREET
SUITE 110
DES MOINES, IOWA 50309
PHONE: 515.243.9143
PROJECT MANAGER: PYLAR EATON
EMAIL: PYLAR.EATON@ISGINC.COM

FAX#





1/21/2025 3:22:04 PM

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PROJECT

DAS CC IDALS **HOOVER 5TH FLOOR RENOVATION** 

PROJECT NO. 24-31954 FILE NAME DRAWN BY **DESIGNED BY** KKT EMS REVIEWED BY ORIGINAL ISSUE DATE 01/21/2025

REVISION SCHEDULE

DESCRIPTION

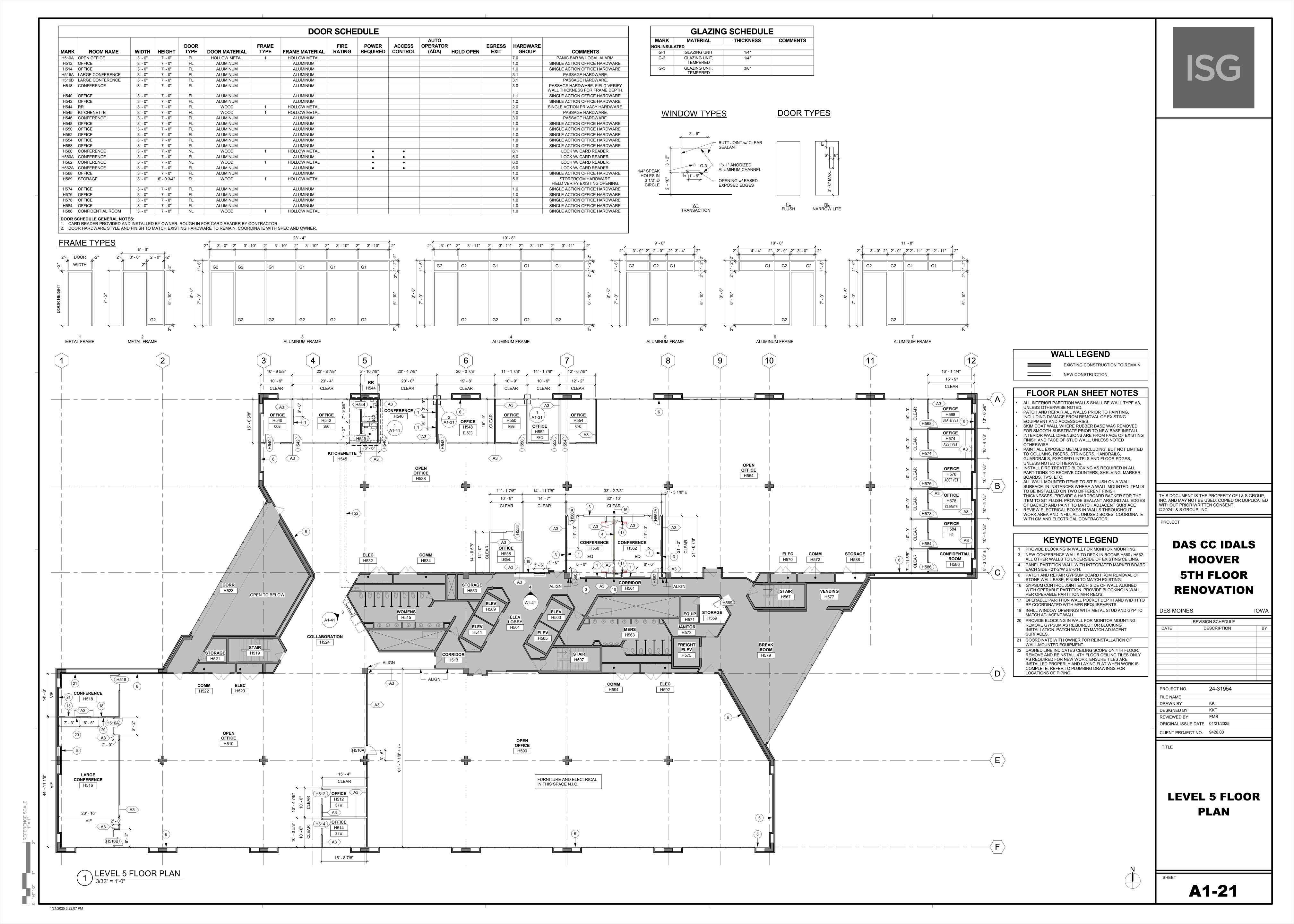
TITLE

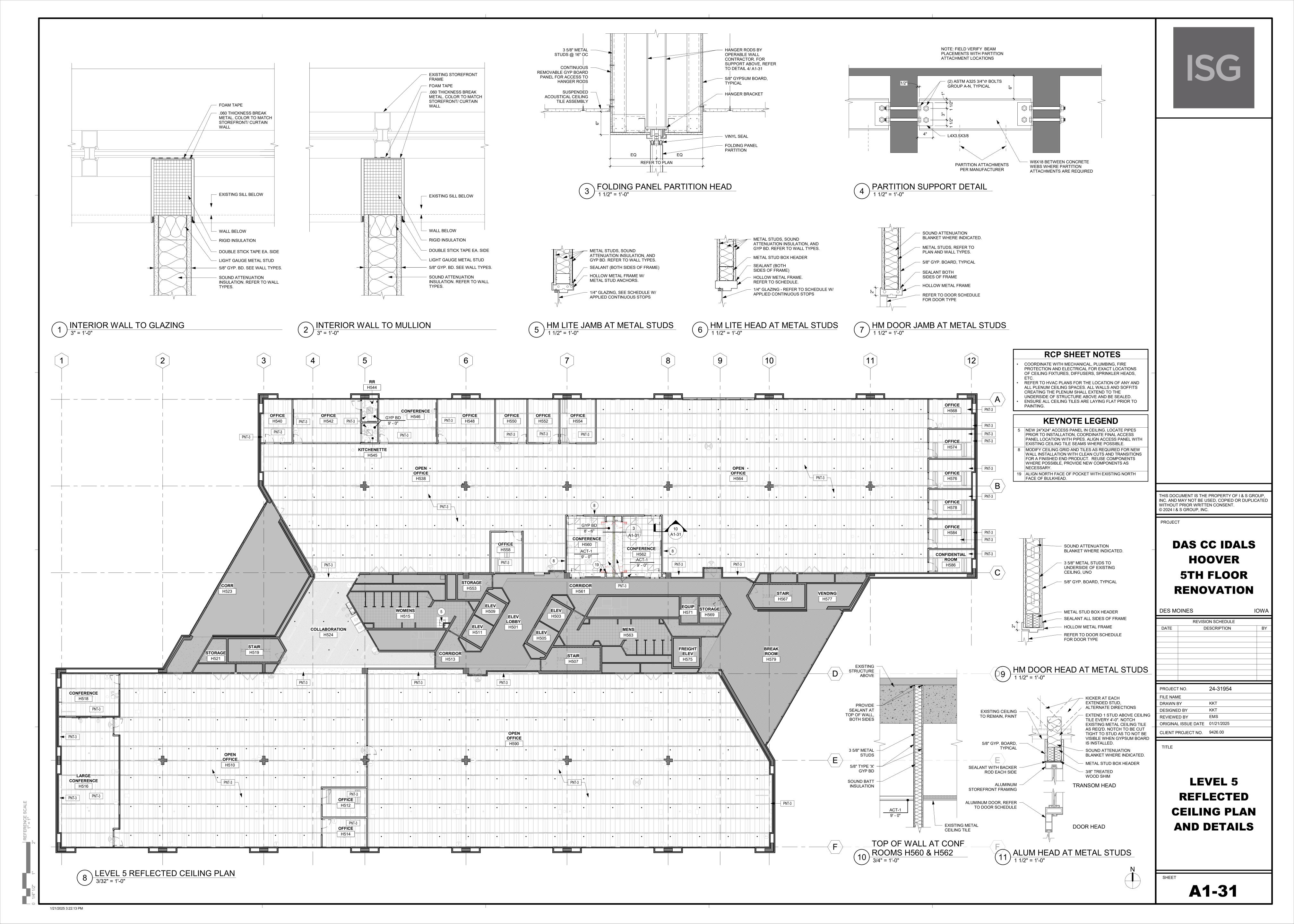
CLIENT PROJECT NO. 9426.00

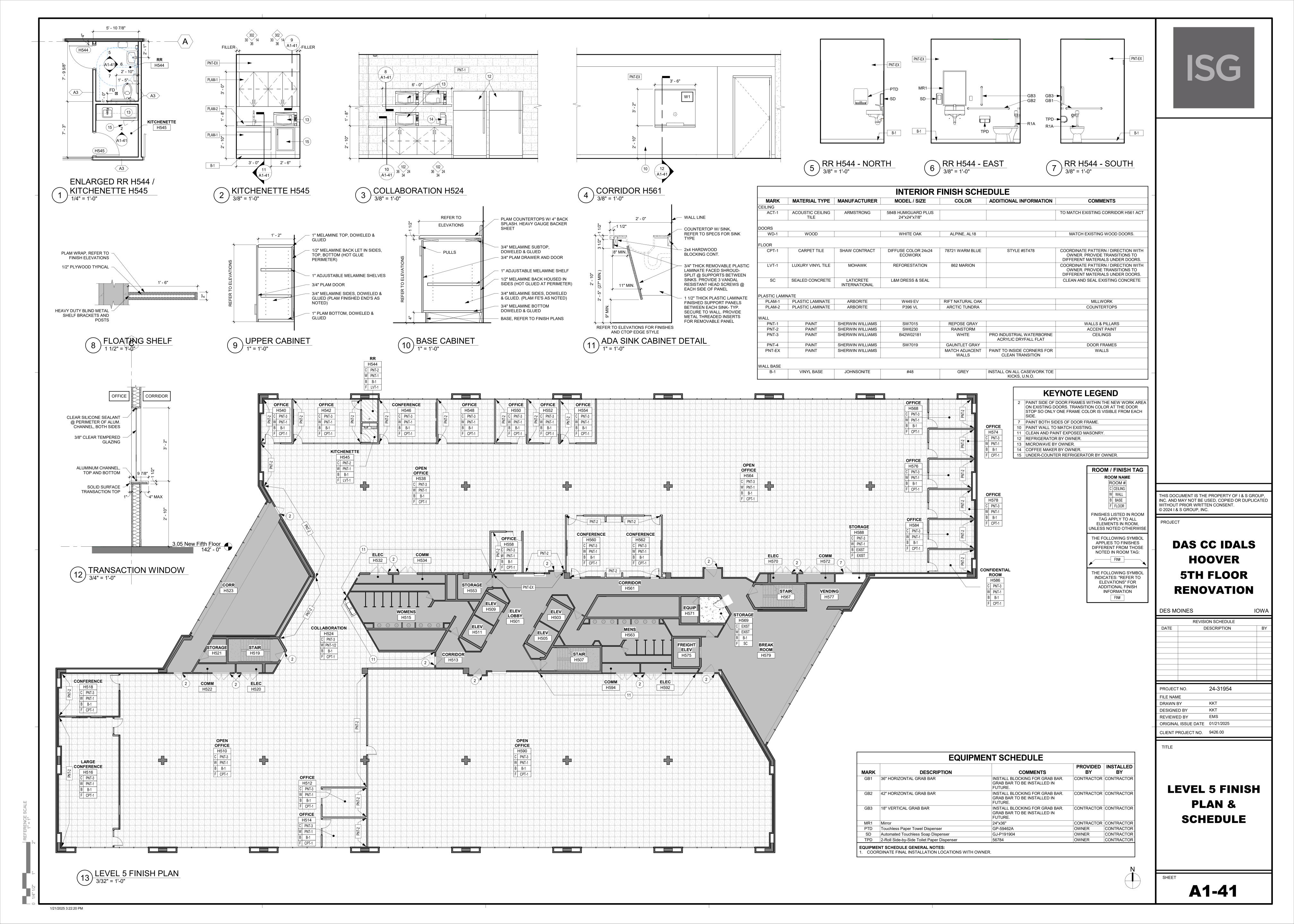
DATE

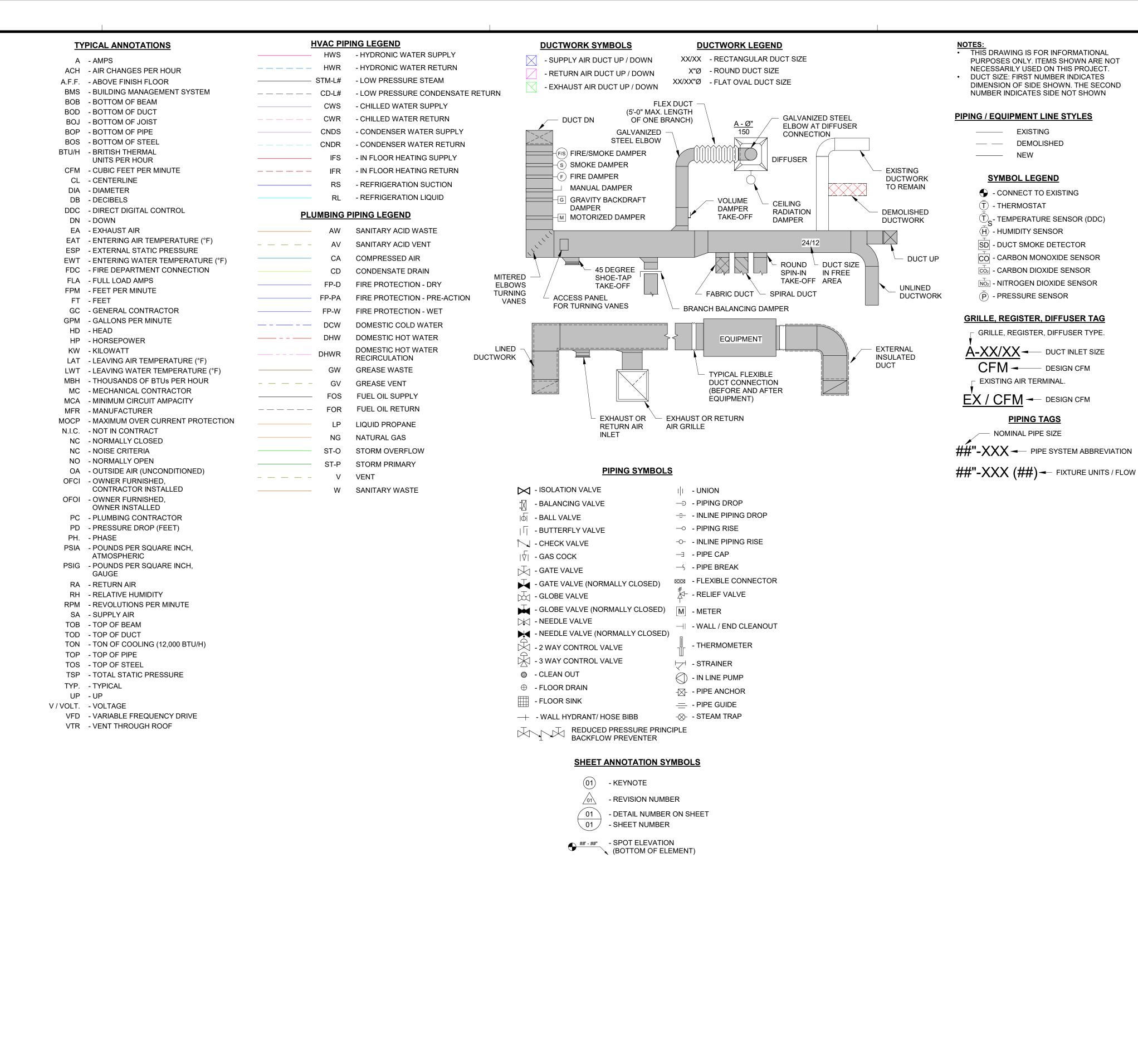
LEVEL 5 **DEMOLITION PLAN** 

**A1-11** 









GENERAL MECHANICAL / PLUMBING NOTES:

- CONTRACT DOCUMENTS SHALL BE ISSUED TO ALL SUBCONTRACTORS BY THE PRIME CONTRACTOR IN COMPLETE SETS IN ORDER TO ACHIEVE THE FULL EXTENT AND COMPLETE COORDINATION OF ALL WORK.
   DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS. WRITTEN DIMENSIONS GOVERN. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
   ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE LOCAL, STATE, AND NATIONAL LAWS, CODES, ORDINANCES, AND REGULATIONS, AS WELL AS LOCAL UTILITY REQUIREMENTS. PROVIDE ALL ADDITIONAL ACCESSORIES
- EQUIPMENT AND OTHER WORK NECESSARY FOR A PROPER AND OPERATIONAL INSTALLATION, TO SATISFY WARRANTY REQUIREMENTS, CODES OR STANDARDS. VERIFY THAT ALL EQUIPMENT PROVIDED IS SUITABLE FOR INTENDED USE. INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

  4. MECHANICAL/PLUMBING DRAWINGS ARE DIAGRAMMATIC IN NATURE. ADDITIONAL OFFSETS, FITTINGS, AND ACCESSORIES MAY
- BE NEEDED FOR INSTALLATION OF NEW MECHANICAL ELEMENTS. FIELD VERIFY EXISTING CONDITIONS AND COORDINATE WITH OTHER TRADES, ARCHITECTURAL DRAWINGS, AND STRUCTURAL DRAWINGS.

  5. WORK NOT SPECIFICALLY SHOWN IN DETAIL, INDICATED BY REFERENCE, OR OTHERWISE IMPLIED, SHALL BE PROVIDED IN ACCORDANCE WITH THE TRADE OR INDUSTRY BEST STANDARD PRACTICE TO PROVIDE A COMPLETE INSTALLATION.
- COORDINATE CLOSELY BETWEEN MECHANICAL AND PLUMBING CONTRACTORS TO UTILIZE THE SAME SUPPORTS WHERE POSSIBLE.
   ALL EQUIPMENT, PIPING, AND DUCTWORK SHALL BE ROUTED TO AVOID CONFLICTS WITH STRUCTURE, OTHER PIPING, ETC. UNI ESS SPECIFICALLY DIMENSIONED. THE PIPE AND DUCTWORK SHOWN INDICATES GENERAL LOCATION ONLY. CONTRACTION
- 7. ALL EQUIPMENT, PIPING, AND DUCTWORK SHALL BE ROUTED TO AVOID CONFLICTS WITH STRUCTURE, OTHER PIPING, ETC.
   UNLESS SPECIFICALLY DIMENSIONED, THE PIPE AND DUCTWORK SHOWN INDICATES GENERAL LOCATION ONLY, CONTRACTOR
   SHALL COORDINATE.
   8. EXISTING CONDITIONS:
- A. ALL ITEMS SHOWN ON THE DRAWINGS ARE AS ACCURATE AS COULD BE DETERMINED. THE CONTRACTOR SHALL OBTAIN EXACT LOCATIONS, SIZES, ELEVATIONS, ETC. AND SHALL SATISFACTORILY ADAPT THE NEW WORK TO THE EXISTING SITE
- CONDITIONS AS REQUIRED.

  B. SINGLE LINE (LIGHT GRAY) LINEWORK AS SHOWN REPRESENTS EXISTING FROM PREVIOUS CONSTRUCTION PROJECTS.

  C. REPAIR AND RESTORE EXISTING MECHANICAL ELEMENTS WHICH ARE AFFECTED AS PART OF THIS PROJECT. THIS INCLUDES
- BUT IS NOT LIMITED TOO, PIPING AND DUCTWORK INSULATION, CONTROLS OF EQUIPMENT TO REMAIN IN OPERATION, ETC.

  D. ANY EXISTING CONSTRUCTION OR UTILITIES THAT ARE DAMAGED BY THE CONTRACTOR OR SUBCONTRACTORS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST. PATCH AND REPAIR CEILINGS, WALLS AND FLOORS TO MATCH EXISTING ADJACENT SURFACES AFFECTED BY THE NEW WORK. UNLESS OTHERWISE INDICATED, ALL EXISTING UTILITIES TO REMAIN IN PLACE.
- E. COORDINATE ALL FLOOR DRAIN LOCATIONS, ELEVATIONS AND FLOOR SLOPES WITH PRIME CONTRACTOR BEFORE
  BEGINNING WORK.
   F. ALL EQUIPMENT AND MATERIALS MUST BE REMOVED FROM THE JOB SITE UNLESS WANTED FOR SALVAGE BY THE OWNER.
  OWNER RETAINS THE RIGHT TO KEEP ANY EQUIPMENT/MATERIALS UNTIL REMOVED FROM SITE WITH OWNER'S PERMISSION.
- ANY PAINTED SURFACES AFFECTED BY NEW WORK THAT REQUIRES PATCHING OR REPAIR SHALL BE REPAINTED WITH A
  MINIMUM OF TWO COATS OF PAINT TO MATCH EXISTING ADJACENT COLOR. THIS WORK BY PRIME CONTRACTOR.
   OPENINGS
- A. PATCH ALL WALL AND FLOOR OPENINGS LEFT BY ANY REMOVAL OF MECHANICAL ELEMENTS, INCLUDING PIPING AND DUCTWORK. FINISH TO MATCH ADJACENT OR EXISTING.

  B. ANY HOLES OR OPENINGS CREATED IN THE ROOFING STRUCTURE AS A RESULT OF DEMOLITION OR NEW WORK SHALL BE
- PATCHED AND REPAIRED TO PROVIDE A PERMANENT WATERPROOF SEAL USING MATERIALS THAT MATCH ADJACENT EXISTING ROOFING MATERIALS. ALL WORK SHALL COMPLY WITH ANY CURRENT ROOF WARRANTIES.

  C. PROVIDE CONTINUOUS SEALANT AROUND ALL MATERIALS AT EXTERIOR WALL PENETRATIONS. SEAL ALL OPENINGS IN
- WITH FIRESTOPPING AS SPECIFIED AND REQUIRED BY ALL APPLICABLE CODES.

  D. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL SLEEVES AND/OR OPENINGS WHERE REQUIRED TO RUN NEW PIPING, DUCTWORK, OR OTHER MECHANICAL ELEMENTS, EXCEPT WHERE OTHERWISE INDICATED. PENETRATION SEALANT RATING SHALL MATCH STRUCTURE RATING. COORDINATE WITH PRIME CONTRACTOR TO REPAIR/RESTORE AFFECTED OCCUPIED

WALLS, FLOORS, CEILINGS AND ROOFS AROUND DUCTS, PIPES, VENTS, TRAPS, CONDUIT AND ALL OTHER PENETRATIONS

- SPACE WALLS, FLOORS, AND CEILINGS TO MATCH EXISTING.

  E. OPENINGS FOR DUCTWORK THROUGH WALLS AND FLOORS SHALL BE NEATLY SAW-CUT WITH A MAXIMUM OVER CUT OF 1"
  AROUND REQUIRED DUCT OPENINGS. REPAIR ALL AREAS AROUND PENETRATIONS WITH BACK-UP WALL AND FINISH TO
  MATCH EXISTING. DO NOT REDUCE INSULATION THICKNESS WHERE DUCT PASSES THROUGH OPENINGS.
- G. OPENINGS FOR PIPING AND ROUND DUCT THROUGH WALLS AND FLOORS SHALL BE NEATLY CORE-DRILLED LARGE ENOUGH FOR INSULATION TO PASS THROUGH, SLEEVED AND GROUTED. PROVIDE FIRE CAULKING AND/OR F.S. DAMPERS AT RATED FLOORS AND WALLS.

. WHERE OPENINGS ARE CUT THRU WALL PROVIDE STEEL ANGLE REINFORCING TO STABILIZE THE STRUCTURE.

- 11. AREAS WITH EXPOSED MECHANICAL SYSTEMS SHALL BE PAINTED TO MATCH SURROUNDING CEILING, JOIST, AND DUCTWORK PAINT. CLEAN SURFACES THOROUGHLY AND CORRECT DEFECTS PRIOR TO COATING APPLICATION. REMOVE UNFINISHED LOUVERS, GRILLES, COVERS, AND ACCESS PANELS ON MECHANICAL AND ELECTRICAL COMPONENTS AND PAINT SEPARATELY. APPLY PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. REINSTALL ELECTRICAL COVER PLATES, HARDWARE, LIGHT FIXTURE TRIM, ESCUTCHEONS, AND FITTINGS REMOVED PRIOR TO FINISHING.
- A. ROUTE PIPING IN ORDERLY MANNER AND MAINTAIN GRADIENT. ROUTE PARALLEL AND PERPENDICULAR TO WALLS. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT. PROVIDE ACCESS WHERE VALVES AND FITTINGS ARE NOT EXPOSED. INSULATED PIPES CONVEYING FLUIDS BELOW AMBIENT TEMPERATURE: INSULATE ENTIRE SYSTEM INCLUDING FITTINGS, VALVES, UNIONS, FLANGES, STRAINERS, FLEXIBLE CONNECTIONS, PUMP BODIES, AND EXPANSION JOINTS. CONTINUE INSULATION THROUGH WALLS, SLEEVES, PIPE HANGERS,
- AND OTHER PIPE PENETRATIONS.

  B. PIPING ABOVE SUSPENDED CEILINGS SHALL BE INSTALLED A MINIMUM OF 6" ABOVE THE CEILING LEVEL.

  C. PIPING SIZES TO EQUIPMENT, AND EQUIPMENT SUPPORTS SHALL BE VERIFIED AND ADJUSTED TO MATCH THE ACTUAL EQUIPMENT PROVIDED.
- D. ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO AVOID GALVANIC CORROSION.

  13. DUCTWORK:
- A. INSTALL, SUPPORT, AND SEAL DUCTS IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE. FLEXIBLE DUCTS: CONNECT TO METAL DUCTS WITH LIQUID ADHESIVE PLUS TAPE. VERIFY THAT DUCTS HAVE BEEN TESTED BEFORE APPLYING INSULATION MATERIALS.
- B. PROVIDE DUCT ACCESS DOORS FOR INSPECTION AND CLEANING BEFORE AND AFTER FILTERS, COILS, FANS, AUTOMATIC DAMPERS, AT FIRE DAMPERS, COMBINATION FIRE AND SMOKE DAMPERS, AND ELSEWHERE AS INDICATED.

  C. AT FANS AND MOTORIZED EQUIPMENT ASSOCIATED WITH DUCTS. PROVIDE FLEXIBLE DUCT CONNECTIONS IMMEDIATELY
- C. AT FANS AND MOTORIZED EQUIPMENT ASSOCIATED WITH DUCTS, PROVIDE FLEXIBLE DUCT CONNECTIONS IMMEDIATELY ADJACENT TO THE EQUIPMENT.

  D. PROVIDE BALANCING DAMPERS ON DUCT TAKE-OFF TO DIFFUSERS, GRILLES, AND REGISTERS, REGARDLESS OF WHETHER
- D. PROVIDE BALANCING DAMPERS ON DUCT TAKE-OFF TO DIFFUSERS, GRILLES, AND REGISTERS, REGARDLESS OF WHETHER DAMPERS ARE SPECIFIED AS PART OF THE DIFFUSER, GRILLE, OR REGISTER ASSEMBLY. PROVIDE ADDITIONAL BALANCING DAMPERS WHERE NECESSARY TO BALANCE DIFFUSER AIR FLOWS.

  14. PROVIDE PHASING SCHEDULE TO OWNERS SHOWING AREAS OF WORK AND HVAC INTERRUPTIONS TO MINIMIZE DOWNTIME.
- DAMPERS WHERE NECESSARY TO BALANCE DIFFUSER AIR FLOWS.

  14. PROVIDE PHASING SCHEDULE TO OWNERS SHOWING AREAS OF WORK AND HVAC INTERRUPTIONS TO MINIMIZE DOWNTIME.

  15. SEAL AND FIRE CAULK ALL PENETRATIONS AS NECESSARY TO MAINTAIN FIRE RATING.
- ALL FIELD CHANGES ARE TO BE PRE-APPROVED.
   ALL TRADES SHALL HAVE PRE-WORK CONFERENCE AND COORDINATION TO SCHEDULE WORK, PLAN WORK, DETAIL WORK TO PROVIDE CLEAN, COMPACT, AND THOUGHTFUL CONSIDERED LAYOUT OF EQUIPMENT, DUCT, CONDUIT, PIPE, ETC.

ISG

SHEET NOT VALID UNLESS THIS TEXT IS COLOR

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PROJECT

DES MOINES

DATE

DAS CC IDALS
HOOVER
5TH FLOOR
RENOVATION

REVISION SCHEDULE

DESCRIPTION

IOWA

PROJECT NO.	24-31954	
PROJECT NO. FILE NAME	24-31954 31954 Mech R24	
FILE NAME	31954 Mech R24	
FILE NAME DRAWN BY	31954 Mech R24 JKS	
FILE NAME DRAWN BY DESIGNED BY	31954 Mech R24 JKS JKS AWP	

TITLE

CLIENT PROJECT NO. 9426.00

DIV 21,22,23 SYMBOLS / ABBREVIATIONS

SHEET

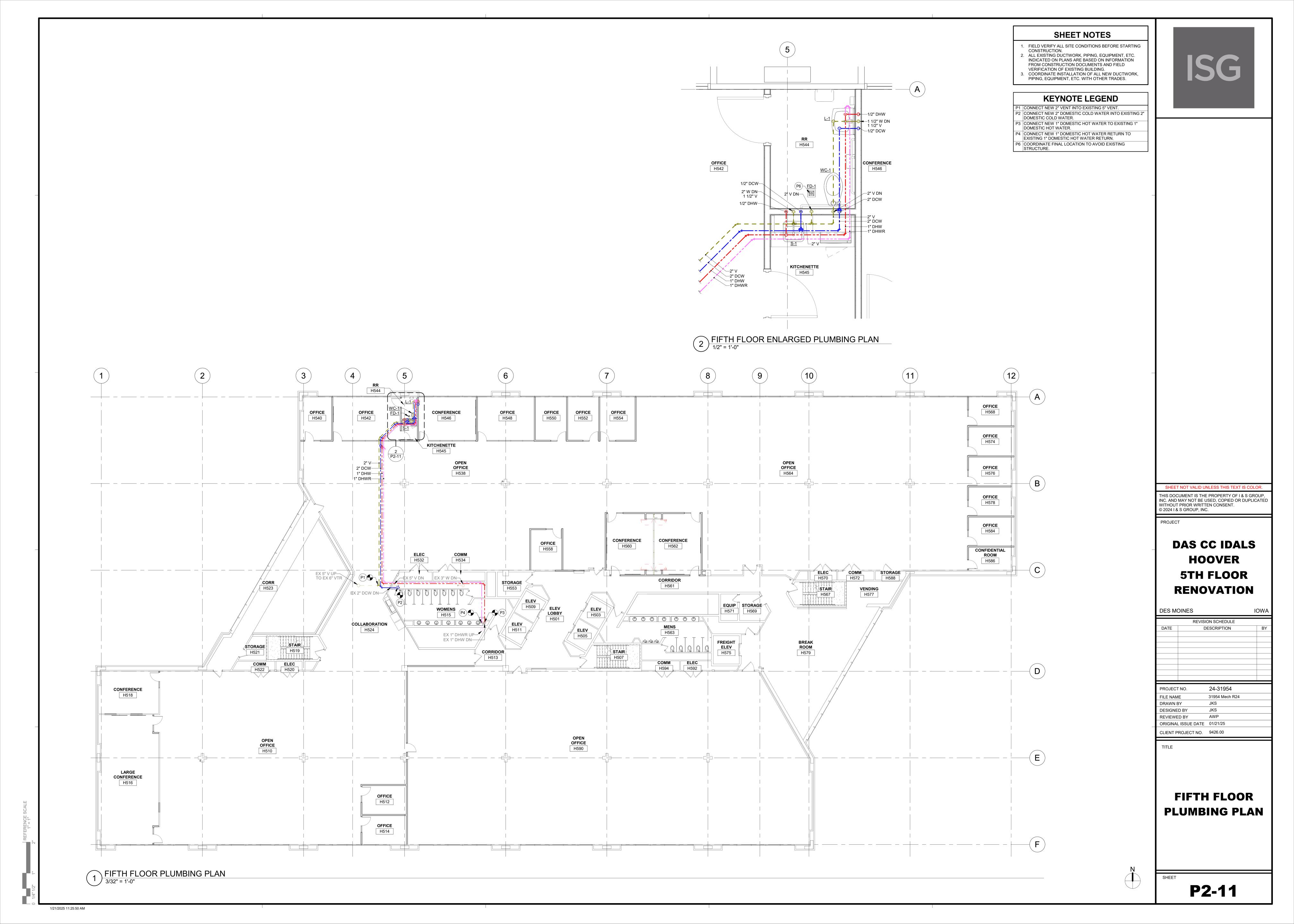
**MP0-01** 

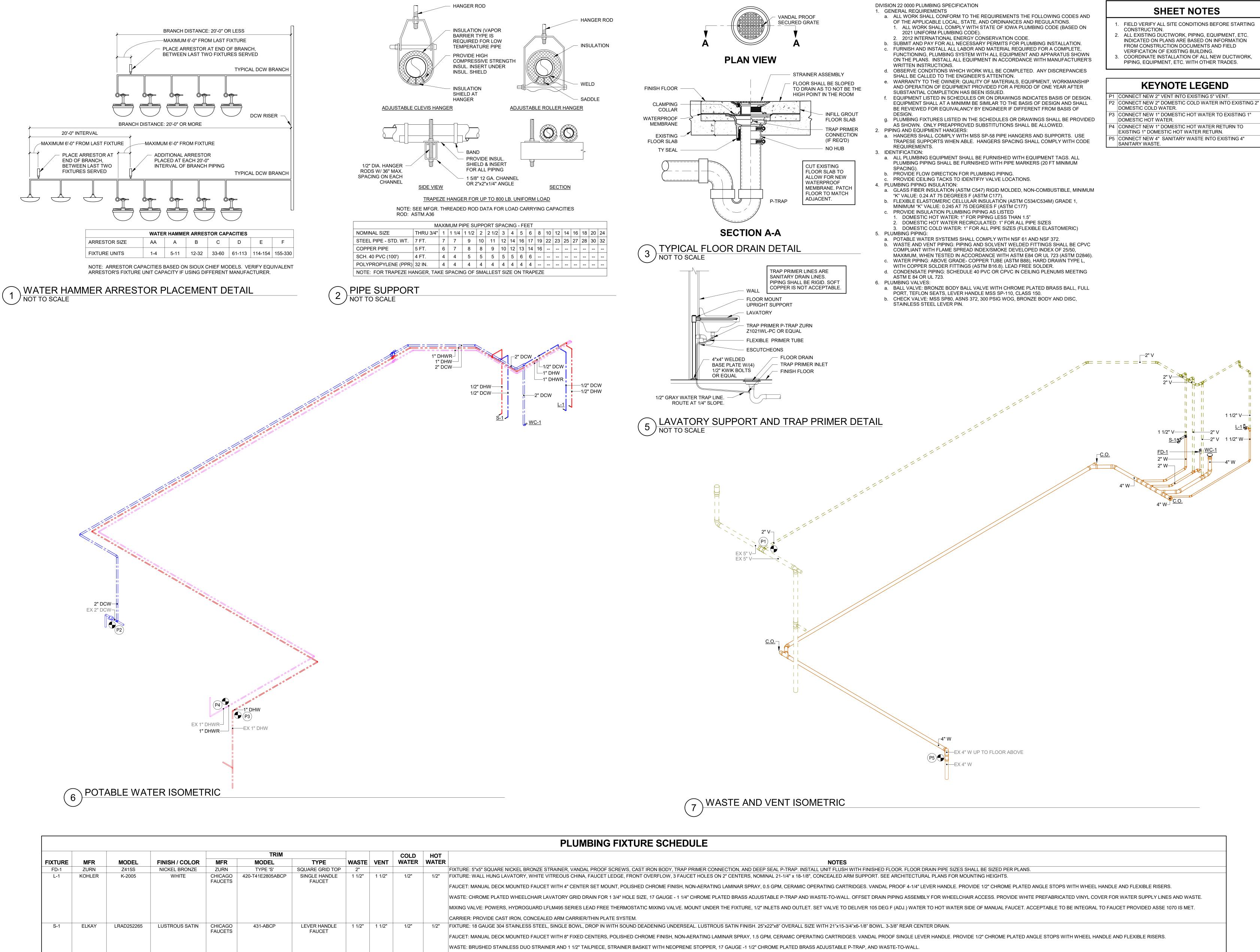
REFERENCE S

1/21/2025 11:25:43 AM

**SHEET NOTES** 1. FIELD VERIFY ALL SITE CONDITIONS BEFORE STARTING CONSTRUCTION. 2. ALL EXISTING DUCTWORK, PIPING, EQUIPMENT, ETC. INDICATED ON PLANS ARE BASED ON INFORMATION FROM CONSTRUCTION DOCUMENTS AND FIELD VERIFICATION OF EXISTING BUILDING.
3. COORDINATE INSTALLATION OF ALL NEW DUCTWORK, PIPING, EQUIPMENT, ETC. WITH OTHER TRADES. **KEYNOTE LEGEND** D1 REMOVE AND DISPOSE OF EXISTING CONNECTION BETWEEN DOMESTIC HOT WATER MAIN AND DOMESTIC HOT WATER RECIRCULATION PIPING. PREPARE FOR NEW CONNECTION. THIS DOCUMENT IS THE PROPERTY OF I & S GROUP, INC. AND MAY NOT BE USED, COPIED OR DUPLICATED WITHOUT PRIOR WRITTEN CONSENT.
© 2024 I & S GROUP, INC. PROJECT DAS CC IDALS **HOOVER** TO EX 6" VTR
EX 5" V DN
EX 3" V **5TH FLOOR** RENOVATION EX 2" DCW DN EX 1" DHW DN— DES MOINES REVISION SCHEDULE DESCRIPTION EX 1" DHWR UP—► PROJECT NO. 24-31954 31954 Mech R24 DRAWN BY DESIGNED BY JKS **REVIEWED BY** AWP ORIGINAL ISSUE DATE 01/21/25 CLIENT PROJECT NO. 9426.00 TITLE FIFTH FLOOR **PLUMBING DEMOLITION PLAN** 1 FIFTH FLOOR PLUMBING DEMOLITION PLAN
3/32" = 1'-0" P1-11 1/21/2025 11:25:44 AM

**SHEET NOTES** 1. FIELD VERIFY ALL SITE CONDITIONS BEFORE STARTING CONSTRUCTION. 2. ALL EXISTING DUCTWORK, PIPING, EQUIPMENT, ETC. INDICATED ON PLANS ARE BASED ON INFORMATION FROM CONSTRUCTION DOCUMENTS AND FIELD VERIFICATION OF EXISTING BUILDING. 3. COORDINATE INSTALLATION OF ALL NEW DUCTWORK, PIPING, EQUIPMENT, ETC. WITH OTHER TRADES. 4. ALL WORK ON FOURTH FLOOR SHALL BE DONE AT NIGHT OR DURING THE WEEKEND TO AVOID DISTURBING OFFICES. COORDINATE WITH OWNER AND PRIME CONTRACTOR. 5. REMOVE AND REINSTALL 4TH FLOOR CEILING TILES ONLY AS REQUIRED FOR NEW WORK. ENSURE TILES ARE INSTALLED PROPERLY AND LAYING FLAT WHEN WORK IS COMPLETE. **KEYNOTE LEGEND** P5 CONNECT NEW 4" SANITARY WASTE INTO EXISTING 4" SANITARY WASTE. 2" W UP— TO <u>S-1</u> 4" W UP TO <u>WC-1</u> 4" W----THIS DOCUMENT IS THE PROPERTY OF I & S GROUP, INC. AND MAY NOT BE USED, COPIED OR DUPLICATED WITHOUT PRIOR WRITTEN CONSENT.
© 2024 I & S GROUP, INC. DAS CC IDALS **HOOVER 5TH FLOOR** EX 2 1/2" V ///EX 5" V UP/DN RENOVATION EX 2" DCW-EX 1" DHW UP— EX 1 1/4" DHW DN DES MOINES REVISION SCHEDULE DATE DESCRIPTION 24-31954 PROJECT NO. 31954 Mech R24 DRAWN BY DESIGNED BY JKS **REVIEWED BY** AWP ORIGINAL ISSUE DATE 01/21/25 CLIENT PROJECT NO. 9426.00 TITLE **FOURTH FLOOR PLUMBING PLAN** 1 FOURTH FLOOR PLUMBING PLAN
3/32" = 1'-0" **P2-10** 1/21/2025 11:25:45 AM





KOHLER

1/21/2025 11:25:51 AM

K-96057

SLOAN ROYAL 111-1.28

MANUAL FLUSH

MIXING VALVE: POWERS, HYDROGUARD LFLM495 SERIES LEAD FREE THERMOSTATIC MIXING VALVE. MOUNT UNDER THE FIXTURE, 1/2" INLETS AND OUTLET. SET VALVE TO DELIVER 105 DEG F (ADJ.) WATER TO HOT WATER SIDE OF MANUAL FAUCET.

FIXTURE: ADA, FLOOR MOUNT, VITREOUS CHINA, ELONGATED BOWL WATER CLOSET, WITH BOLT CAP ACCESSORY PACK. 1.28 GPF. 1 1/2" TOP SPUD. 16-5/8" HEIGHT TO TOP OF BOWL

SEAT: KOHLER LUSTRA ELONGATED WHITE OPEN FRONT PLASTIC SEAT WITH ANTIMICROBIAL AGENT AND SELF-SUSTAINING CHECK HINGES.

FLUSH VALVE: EXPOSED, TOP SPUD, 1.28 GPF, DIAPHRAGM VALVE, POLISHED CHROME FINISH, 11 1/2" ROUGH-IN, 1" VANDAL RESISTANT ANGLE STOP, VACUUM BREAKER, MANUAL FLUSHOMETER.

FIELD VERIFY ALL SITE CONDITIONS BEFORE STARTING ALL EXISTING DUCTWORK, PIPING, EQUIPMENT, ETC. INDICATED ON PLANS ARE BASED ON INFORMATION COORDINATE INSTALLATION OF ALL NEW DUCTWORK,

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DAS CC IDALS **HOOVER 5TH FLOOR RENOVATION** 

DES MOIN	IOWA		
	REVISION SCHEDULE		
DATE	DESCRIPTION	BY	

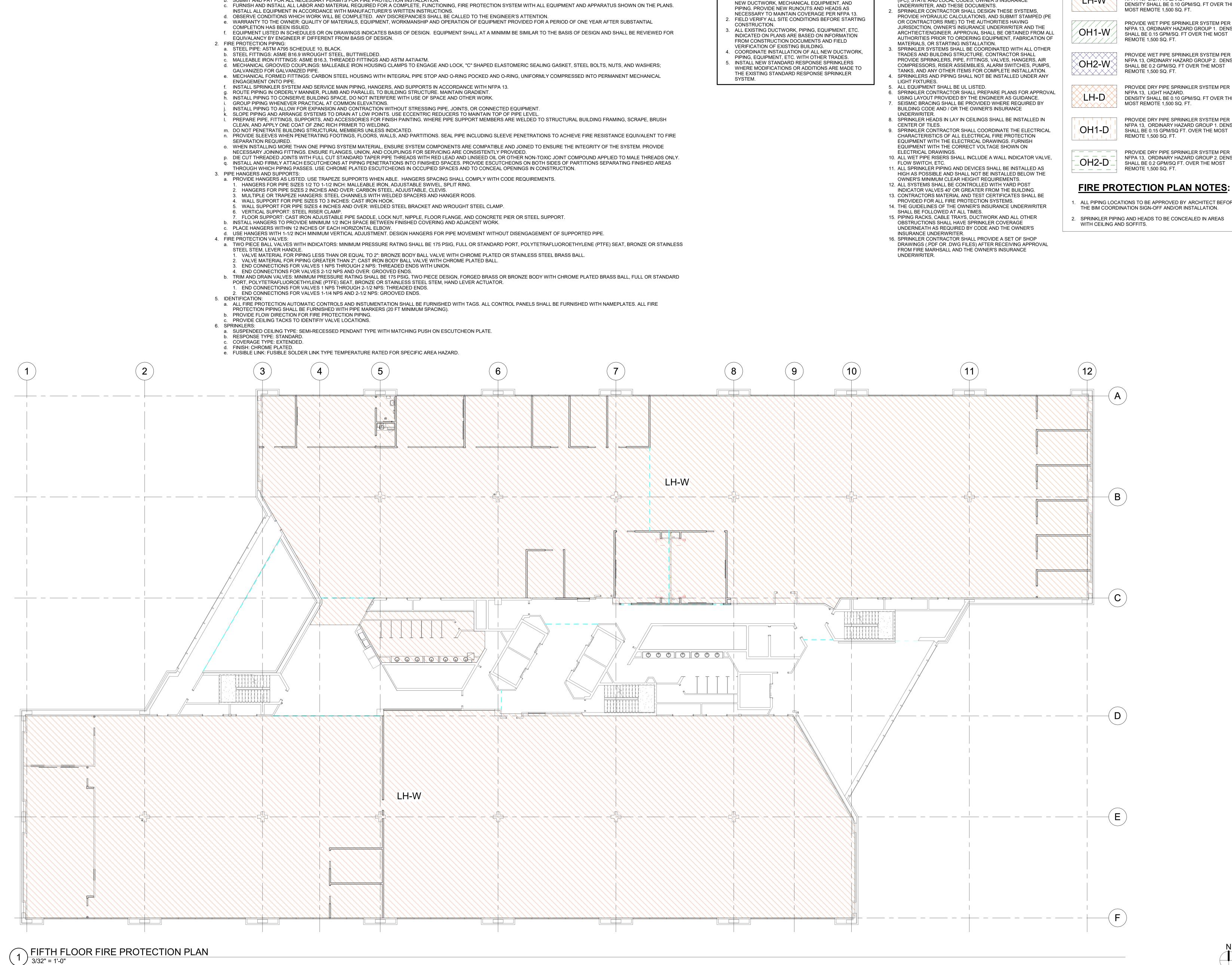
24-31954 **DESIGNED BY** AWP

CLIENT PROJECT NO. 9426.00

TITLE

**PLUMBING** ISOMETRICS, **DETAILS**, SCHEDULES, AND **SPECIFICATIONS** 

P6-11



DIVISION 21 0000 FIRE PROTECTION SPECIFICATION

a. ALL WORK SHALL CONFORM TO THE REQUIREMENTS THE FOLLOWING CODES AND OF THE APPLICABLE LOCAL, STATE, AND ORDINANCES AND REGULATIONS.

ALL WORK SHALL COMPLY WITH STATE OF IOWA BUILDING CODE (BASED ON 2015 INTERNATIONAL BUILDING CODE).

ALL WORK SHALL COMPLY WITH THE STATE OF IOWA FIRE CODE (BASED ON 2015 INTERNATIONAL FIRE CODE).

3. CURRENT ADDITION OF NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 13.

b. SUBMIT AND PAY FOR ALL NECESSARY PERMITS FOR FIRE PROTECTION INSTALLATION.

GENERAL REQUIREMENTS

**FIRE PROTECTION KEY** 

PROVIDE WET PIPE SPRINKLER SYSTEM PER NFPA 13, LIGHT HAZARD.

**GENERAL FIRE PROTECTION NOTES:** 

SPRINKLER PROTECTION SHALL BE PROVIDED THROUGHOUT NEW

INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL FIRE CODE

CONSTRUCTION. SPRINKLER DESIGN SHALL BE PER THE

(IFC), STATE AND LOCAL CODES, OWNER'S INSURANCE

REQUIREMENTS OF THE CURRENT EDITIONS OF THE

**SHEET NOTES** 

REVISE SPRINKLER PIPING INCLUDING REPIPING MAINS,

RECONFIGURATION OF FLOOR PLANS, INSTALLATION OF

BRANCH MAINS, RUNOUTS, ETC TO ALLOW FOR

DENSITY SHALL BE 0.10 GPM/SQ. FT OVER THE MOST REMOTE 1,500 SQ. FT.

PROVIDE WET PIPE SPRINKLER SYSTEM PER NFPA 13, ORDINARY HAZARD GROUP 1. DENSITY SHALL BE 0.15 GPM/SQ. FT OVER THE MOST REMOTE 1,500 SQ. FT.

PROVIDE WET PIPE SPRINKLER SYSTEM PER NFPA 13, ORDINARY HAZARD GROUP 2. DENSITY NFPA 13, ORDINARY HAZARD GROUP 2. DEN SHALL BE 0.2 GPM/SQ. FT OVER THE MOST

> DENSITY SHALL BE 0.10 GPM/SQ. FT OVER THE MOST REMOTE 1,500 SQ. FT. PROVIDE DRY PIPE SPRINKLER SYSTEM PER NFPA 13, ORDINARY HAZARD GROUP 1. DENSITY

PROVIDE DRY PIPE SPRINKLER SYSTEM PER NFPA 13, ORDINARY HAZARD GROUP 2. DENSITY SHALL BE 0.2 GPM/SQ FT. OVER THE MOST

### FIRE PROTECTION PLAN NOTES:

- . ALL PIPING LOCATIONS TO BE APPROVED BY ARCHITECT BEFORE THE BIM COORDINATION SIGN-OFF AND/OR INSTALLATION.
- 2. SPRINKLER PIPING AND HEADS TO BE CONCEALED IN AREAS WITH CEILING AND SOFFITS.

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PROJECT

DES MOINES

DATE

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DAS CC IDALS **HOOVER 5TH FLOOR** RENOVATION

> **REVISION SCHEDULE** DESCRIPTION

24-31954	
24-31954 31954 Mech R24	
31954 Mech R24	
31954 Mech R24 JKS	

TITLE

CLIENT PROJECT NO. 9426.00

FIFTH FLOOR **FIRE PROTECTION PLAN** 

**FP2-11** 

#### **SHEET NOTES**

- 1. FIELD VERIFY ALL SITE CONDITIONS BEFORE STARTING CONSTRUCTION. 2. ALL EXISTING DUCTWORK, PIPING, EQUIPMENT, ETC. INDICATED ON PLANS ARE BASED ON INFORMATION FROM CONSTRUCTION DOCUMENTS AND FIELD
- VERIFICATION OF EXISTING BUILDING. 3. COORDINATE INSTALLATION OF ALL NEW DUCTWORK, PIPING, EQUIPMENT, ETC. WITH OTHER TRADES.
- 4. BASE BID: EXISTING THERMOSTATS TO REMAIN OR BE RELOCATED.

# **KEYNOTE LEGEND**

5. ALTERNATE #2 ACCEPTED: REMOVE AND DISPOSE OF ALL EXISTING THERMOSTATS IN AREA OF WORK.

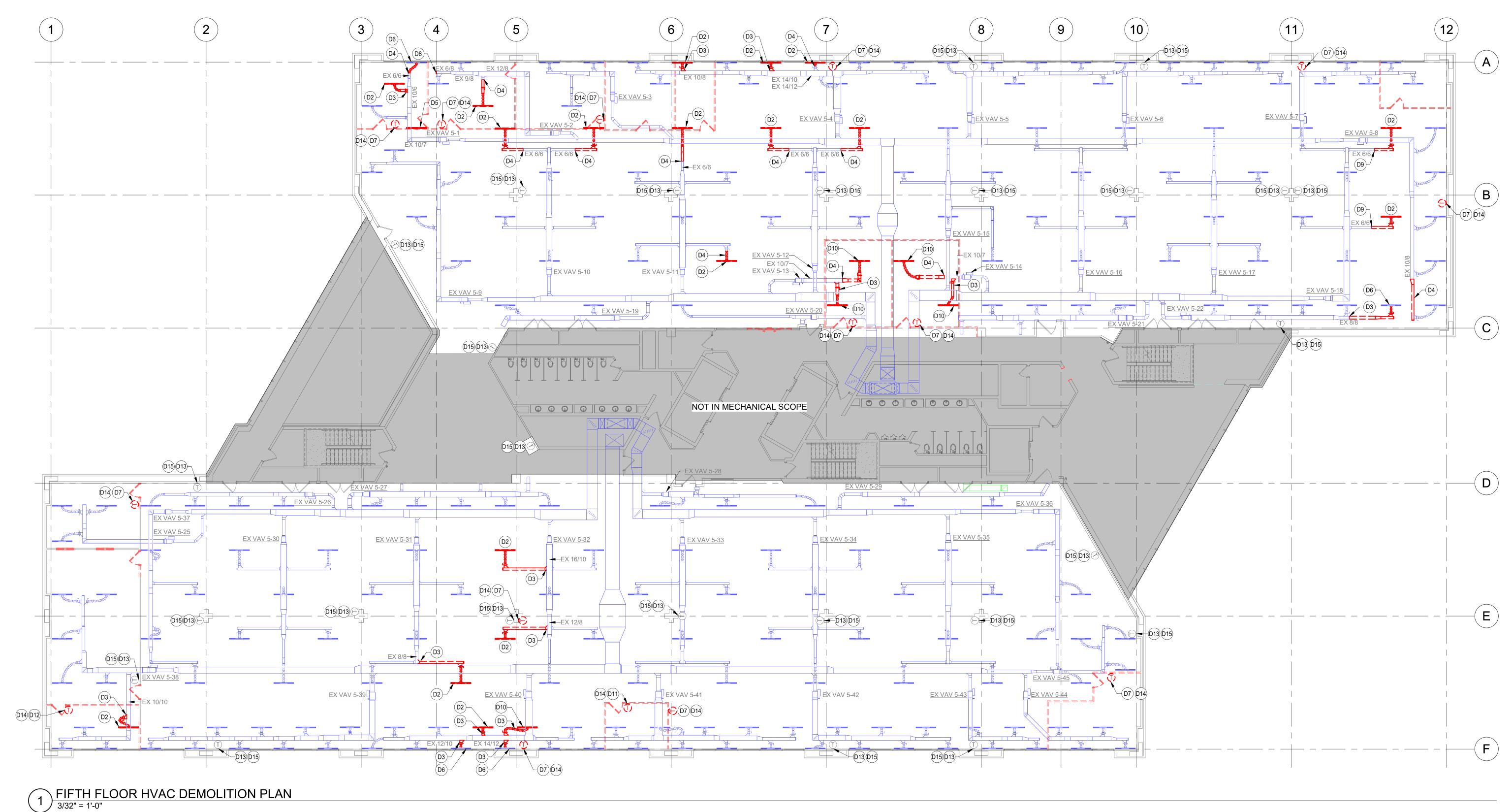
- D2 REMOVE EXISTING AIR TERMINAL AND ASSOCIATED PLENUM BOX. PREPARE FOR RELOCATION.
- D3 REMOVE AND DISPOSE OF DUCTWORK BACK TO MAIN AND

D4 REMOVE AND DISPOSE OF DUCTWORK. PREPARE REMAINING

- DUCT FOR NEW CONNECTION. D5 REMOVE AND DISPOSE OF EXISTING AIR TERMINAL
- ABANDONED IN PLACE.
- D6 DISCONNECT AIR TERMINAL FROM EXISTING DUCTWORK AND PREPARE FOR NEW CONNECTION. D7 BASE BID: REMOVE EXISTING THERMOSTAT AND PREPARE
- FOR RELOCATION. PATCH WALL TO MATCH ADJACENT. D8 REMOVE AND DISPOSE OF DUCT CAP. PREPARE DUCT FOR NEW CONNECTION.
- D9 CUT AND CAP EXISTING DUCT. PREPARE EXISTING DUCT MAIN FOR NEW BRANCH CONNECTION. D10 REMOVE AND DISPOSE OF EXISTING AIR TERMINAL.
- D11 BASE BID: REMOVE AND DISCONNECT EXISTING THERMOSTAT. PATCH WALL TO MATCH ADJACENT. PREPARE
- THERMOSTAT TO CONNECT TO NEW VAV. SEE NEW PLANS FOR REINSTALLATION LOCATION. D12 BASE BID: REMOVE AND RELINQUISH EXISTING THERMOSTAT

#### TO OWNER. D13 BASE BID: THERMOSTAT TO REMAIN IN PLACE AND

- OPERATIONAL. D14 ALTERNATE #2: REMOVE AND DISPOSE OF EXISTING
- THERMOSTAT. PATCH WALL TO MATCH ADJACENT. D15 ALTERNATE #2: REMOVE AND DISPOSE OF EXISTING THERMOSTAT. PREPARE REMAINING BASEPLATE OR SURFACE MOUNTED WIREMOLD DEVICE BOX FOR NEW CONNECTION.



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DAS CC IDALS **HOOVER 5TH FLOOR** RENOVATION

REVISION SCHEDULE							
DATE		DESCRIPTION	BY				
DD0 1503	- NO	04.04054					
PROJECT NO.		24-31954					
FILE NAME		31954 Mech R24					
DRAWN BY		JKS					

REVIEWED BY ORIGINAL ISSUE DATE 01/21/25 CLIENT PROJECT NO. 9426.00

TITLE

**DESIGNED BY** 

FIFTH FLOOR **MECHANICAL DEMOLITION PLAN** 

M1-11

1/21/2025 11:26:02 AM

# H512 3/4" HWR-----EX 1" HWS T VAV 5-0 (M6)(M7)EX 3/4" HWR H514 1) FIFTH FLOOR HYDRONIC PLAN 1/4" = 1'-0"

1/21/2025 11:26:10 AM

#### **SHEET NOTES**

- . FIELD VERIFY ALL SITE CONDITIONS BEFORE STARTING CONSTRUCTION. . ALL EXISTING DUCTWORK, PIPING, EQUIPMENT, ETC. INDICATED ON PLANS ARE BASED ON INFORMATION FROM CONSTRUCTION DOCUMENTS AND FIELD
- VERIFICATION OF EXISTING BUILDING. 3. COORDINATE INSTALLATION OF ALL NEW DUCTWORK, PIPING, EQUIPMENT, ETC. WITH OTHER TRADES. BASE BID: EXISTING THERMOSTATS TO REMAIN OR BE

RELOCATED. PAINT WIREMOLD TO MATCH ADJACENT

5. ALTERNATE #2 ACCEPTED: INSTALL NEW THERMOSTATS IN PRIVATE OFFICES, CONFERENCE ROOMS, AND OPEN OFFICE SPACES. THERMOSTAT SHALL BE SIEMENS QAA2280.FWSC. ONLY PREAPPROVED SUBSTITUION SHALL BE ALLOWED. PAINT WIREMOLD TO MATCH ADJACENT WALL.

### **KEYNOTE LEGEND**

- M1 BALANCE ALL DAMPERS DOWNSTREAM OF THE VAV BOX TO THE SPECIFIED AIRFLOW. ADJUST EXISTING VAV UNIT FOR NEW AIRFLOW. SEE SCHEDULE. M2 BASE BID: RELOCATE AND REINSTALL EXISTING
- THERMOSTAT. M3 REBALANCE VAV BOX MAXIMUM AND MINIMUM AIRFLOWS AS SPECIFIED IN SCHEDULE. NO REBALANCING REQUIRED
- DOWNSTREAM OF THE VAV BOX. M4 ALTERNATE #2: REPLACE EXISTING THERMOSTAT WITH NEW THERMOSTAT.
- M5 6/6 EXHAUST DUCT UP TO GOOSENECK. SEE GOOSENECK EXHAUST DETAIL.
- M6 BASE BID: RELOCATE AND REINSTALL EXISTING THERMOSTAT. CONNECT TO VAV 5-0.
- M7 ALTERNATE #2: INSTALL NEW THERMOSTAT. ROUTE ALL
- WIRING IN WALL. MOUNT TOP OF THERMOSTAT 48" ABOVE FINISHED FLOOR. M8 ALTERNATE #2: INSTALL NEW THERMOSTAT ON EXISTING
- WALL. SURFACE MOUNT THERMOSTAT 60" ABOVE FINISHED FLOOR WITH WIREMOLD DEVICE BOX AND NONMETALLIC RACEWAY TO MATCH EXISTING.
- M9 ALTERNATE #2: INSTALL NEW THERMOSTAT. ROUTE ALL WIRING IN WALL. MOUNT THERMOSTAT 60" ABOVE FINISHED FLOOR TO MATCH EXISTING THERMOSTAT ELEVATION.
- M10 COORDINATE WITH CONTROLS CONTRACTOR TO REPATH THERMOSTAT AFTER REDUCTION FROM TWO TO ONE SENSORS SERVING THE EXISTING VAV.

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PROJECT

DES MOINES

DAS CC IDALS **HOOVER 5TH FLOOR** RENOVATION

> REVISION SCHEDULE DESCRIPTION

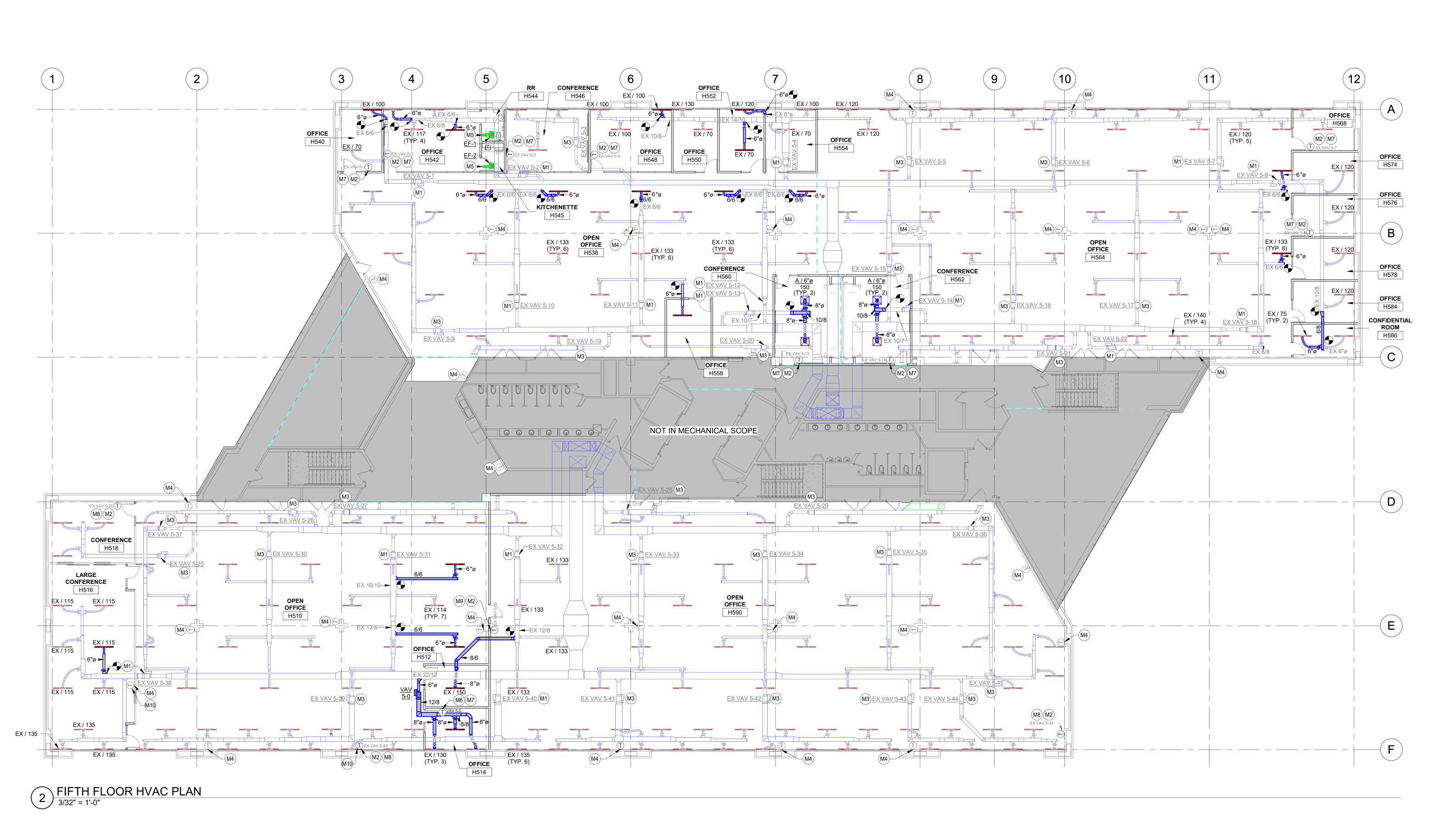
PROJECT	ΓNO.	24-31954	
PROJECT		24-31954 31954 Mech R24	
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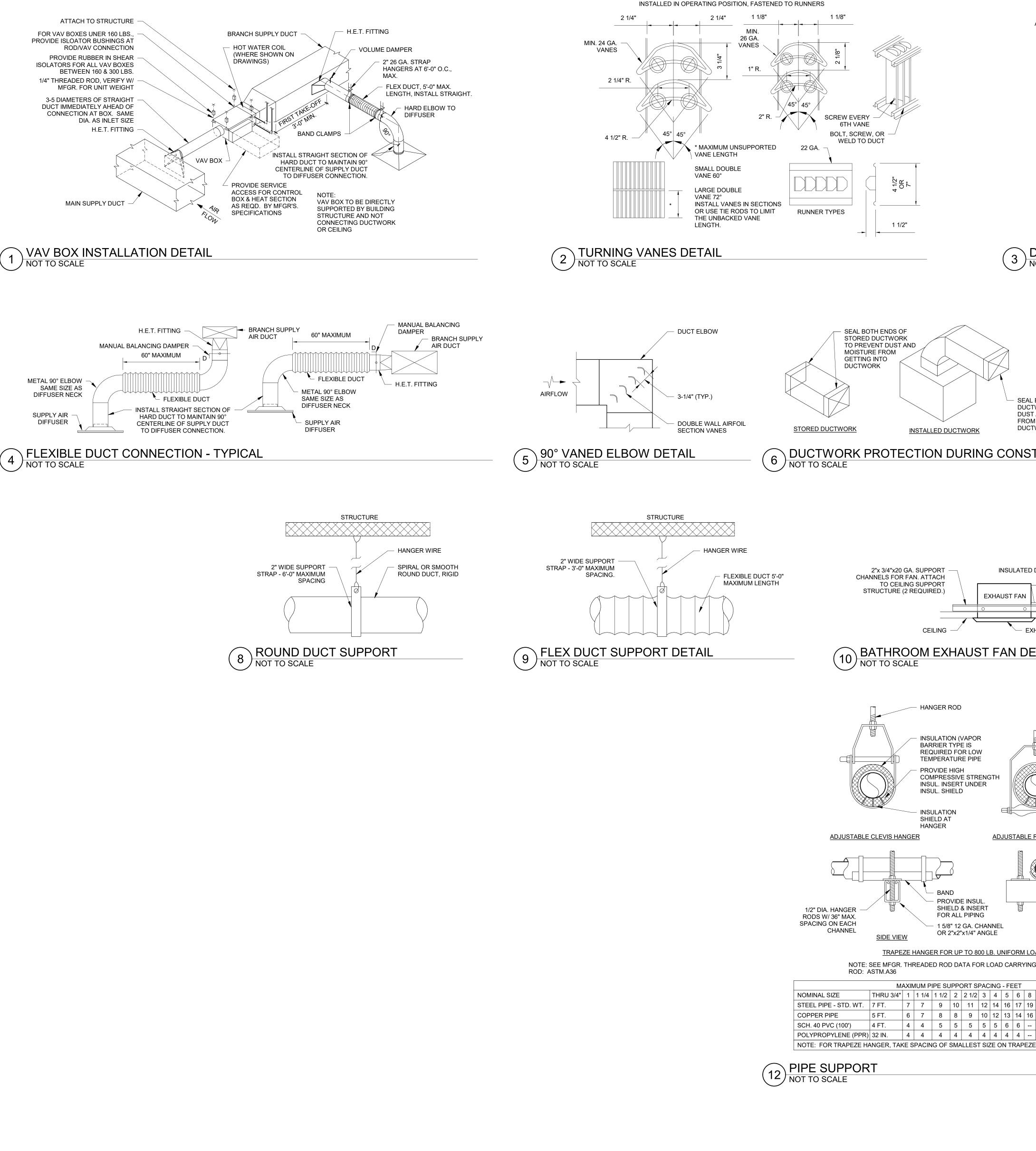
ORIGINAL ISSUE DATE 01/21/25 CLIENT PROJECT NO. 9426.00

TITLE

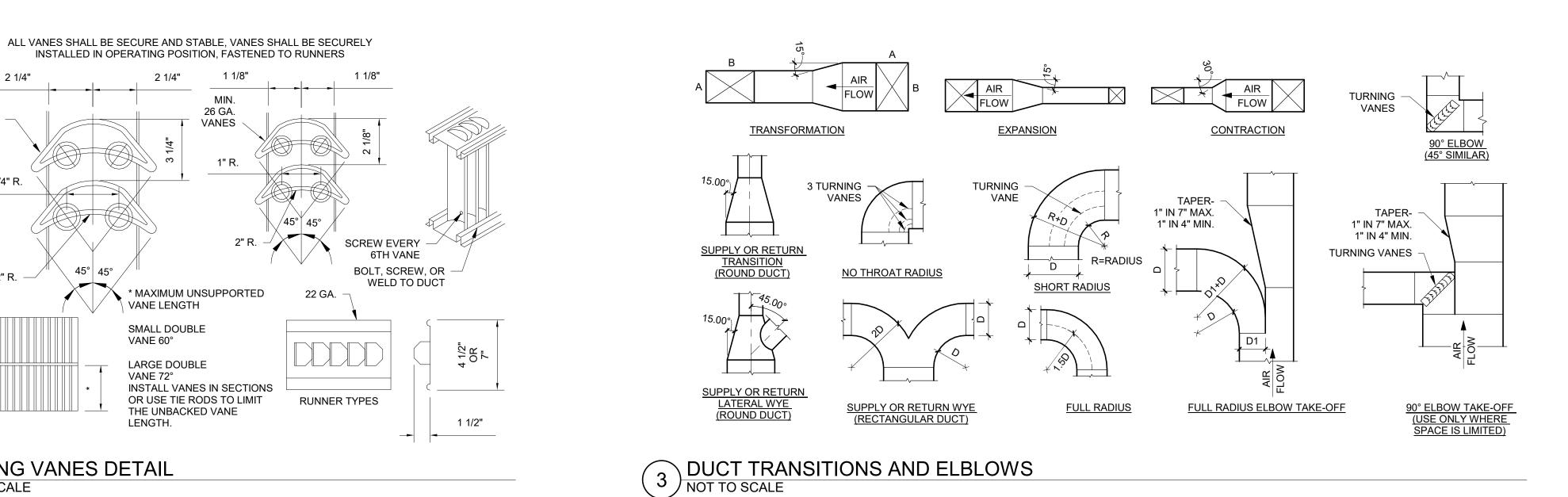
FIFTH FLOOR **MECHANICAL PLAN** 

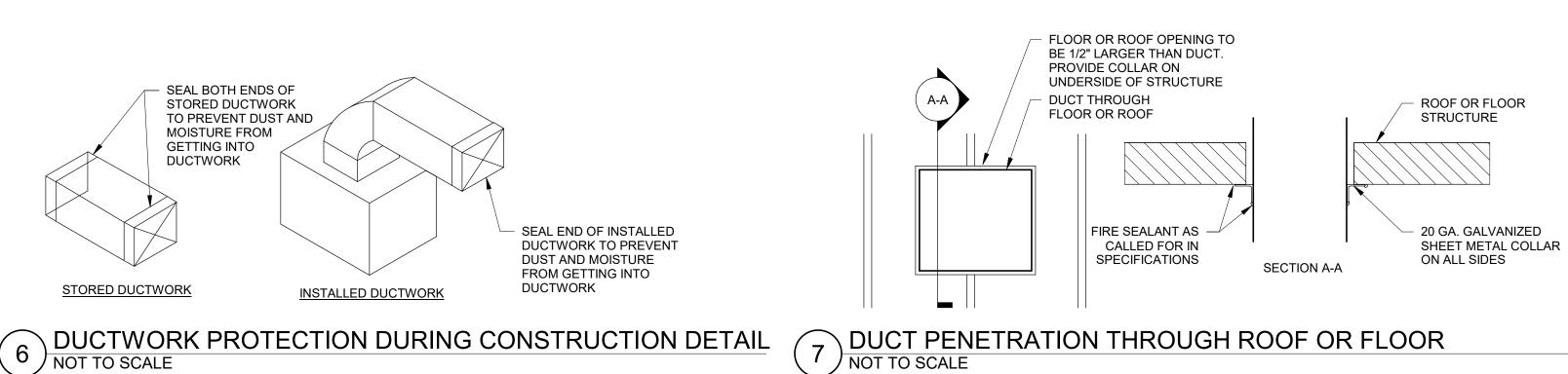
**M2-11** 





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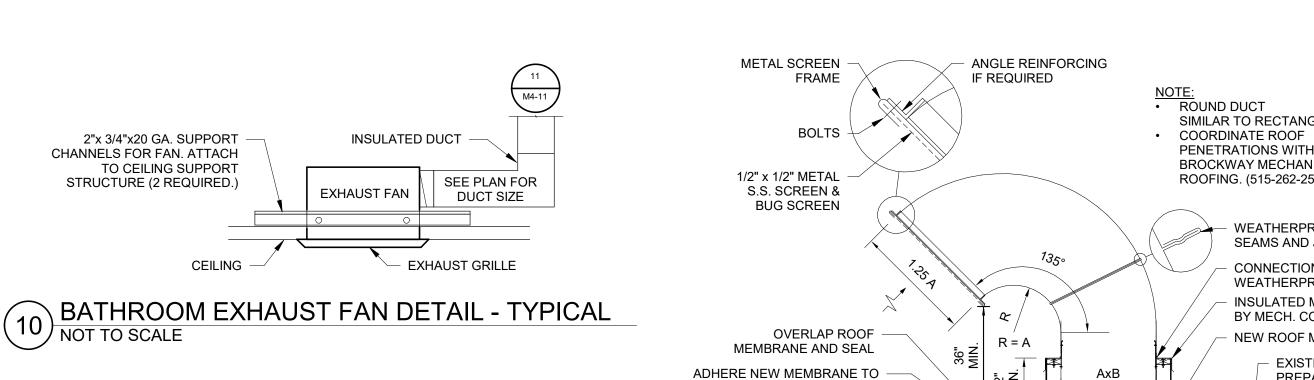
EXISTING ROOF MEMBRANE

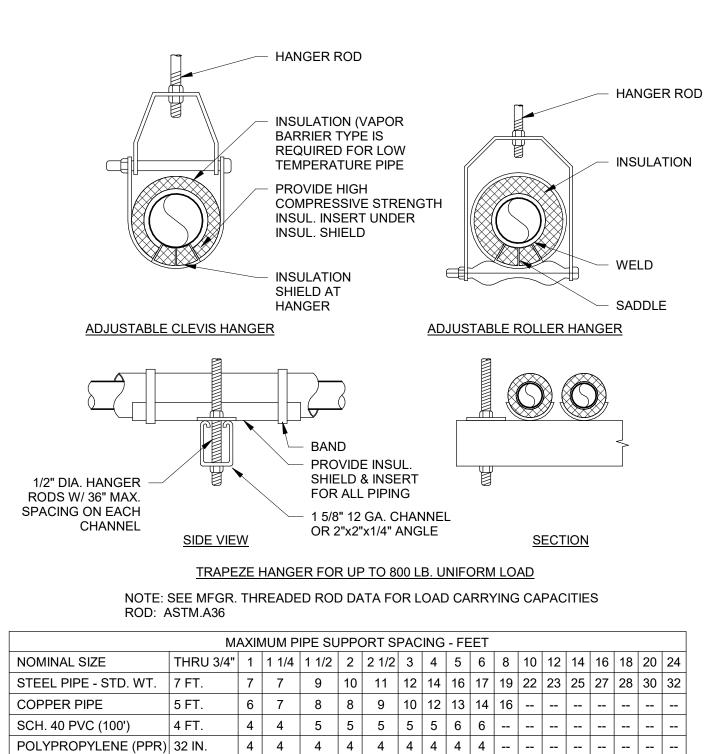
W/ SPLICING CEMENT PER

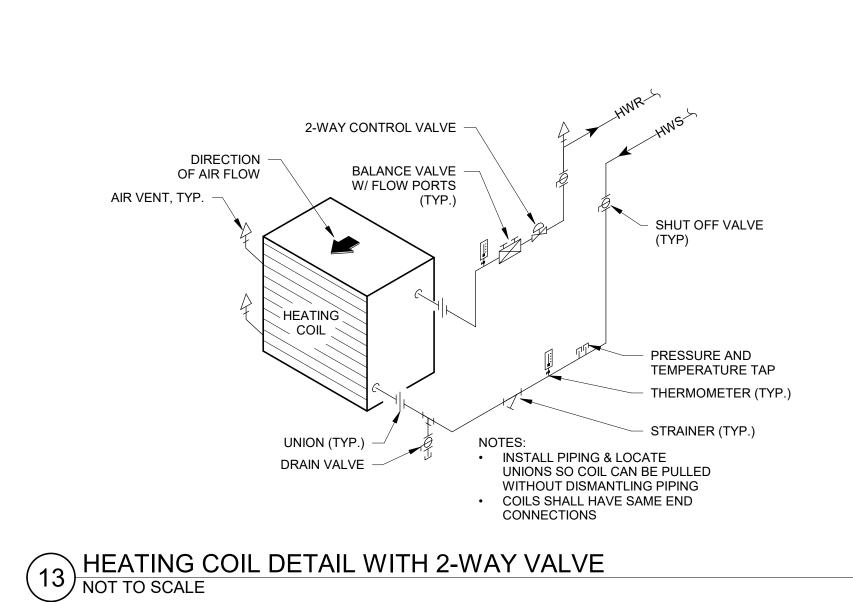
MFR REQ'S

GOOSENECK EXHAUST DETAIL
NOT TO SCALE

DUCT. SEE PLANS -FOR SIZES







SIMILAR TO RECTANGULAR

BROCKWAY MECHANICAL AND

WEATHERPROOF SEAMS AND JONTS

CONNECTION SHALL BE

INSULATED METAL CURB

BY MECH. CONTRACTOR

NEW ROOF MEMBRANE

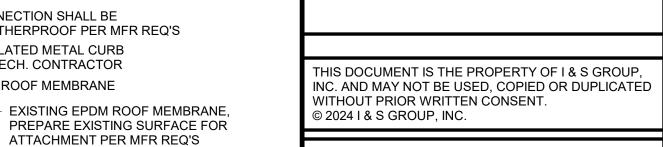
WEATHERPROOF PER MFR REQ'S

EXISTING INSULATION

- EXISTING ROOF STRUCTURE

PENETRATIONS WITH

ROOFING. (515-262-2528)



PROJECT

DES MOINES

DATE

# DAS CC IDALS **HOOVER 5TH FLOOR RENOVATION**

REVISION SCHEDULE DESCRIPTION

PROJECT NO.	24-31954	
FILE NAME	31954 Mech R24	
DRAWN BY	JKS	
DESIGNED BY	JKS	
REVIEWED BY	AWP	
ORIGINAL ISSUE DATE	01/21/25	
CLIENT PROJECT NO.	9426.00	

TITLE

**MECHANICAL DETAILS** 

M4-11

				EXH	IAUST F	AN SCH	IEDULE						
2. PROVIDE UN 3. PROVIDE UN 4. CONTROL V	NIT WITH PREMIUM E NIT WITH FACTORY II	FFICIENCY MOTOR ( NSTALLED PREWIRE RVING ROOM LIGHTS	D DISCONNECT AND FAN S. NO CONNECTION TO B		ED CONTROLLI	ER FOR BALANC	CING.						
										ELECTRICAL			
MARK	MFR	MODEL	LOCATION	DRIVE	СҒМ	E.S.P.	SONES	FRPM	WATTS	VOLTAGE / PH.	AMPS	WEIGHT	NOTES
EF-1	GREENHECK	SP-AP0511WL-1	H544 RR	DIRECT	70	0.3	2	878	16	115/1	0.29	16 lb	1,2,3,4
EF-2	GREENHECK	SP-B80	H545 KITCHENETTE	DIRECT	45	0.3	1.5	900	18	115/1	0.16	9 lb	1,2,3,4



# VARIABLE AIR VOLUME (VAV) SCHEDULE

1. EXISTING BOX SHOWN FOR REFERENCE AND SHALL MAINTAIN EXISTING CONTROLS. BALANCE TO NEW AIRFLOW. 2. INSTALL AS SHOWN AND AS PER MANUFACTURER'S INSTRUCTIONS.

3. PROVIDE VAV WITHOUT CONTROLS. COORDINATE WITH CONTROLS CONTRACTOR TO PROVIDE 2 WAY CONTROL VALVE WITH ACTUATOR AND FIELD INSTALLED CONTROLLER. SEQUENCE OF OPERATION SHALL MATCH EXISTING VAV BOXES. ALL CONTROLLERS, WIRING PROGRAMMING, VALVES, AND ACTUATORS SHALL BE BY TCC.

4. PROVIDE UNIT WITH INTEGRAL LINER.

5. PROVIDE UNIT WITH COIL ACCESS DOOR 6. REBALANCE MANUAL BALANCING VALVE FOR REVISED FLOW RATE.

					REHEAT COIL											
								AIR	SIDE				WATER SIDE			
MADIZ	MED	MODEL	INLET	MAY OFM	MINI OFM	OUTPUT	OFM	EAT (OE)	LAT (OF)	APD (IN.	ODM	EVALT (OE)	LVA/T (OF)	WPD (FT	# DOMO	NOTES
MARK	MFR	MODEL	DIAMETER	MAX CFM	MIN CFM	(MBH)	CFM	EAT (°F)	LAT (°F)	WG)	GPM	EWT (°F)	LWT (°F)	H2O)	# ROWS	NOTES
VAV 5-0	KRUEGER	LMHS	6	390	130	6.8	255	65	90	0.25	0.8	180	162.7	0.1	2	2,3,4,5
VAV 5-1	KRUEGER	LMHS LMHS	5	170	60	4.6	170	65	90	0.03	0.5	180	161.2	0.24	1	1,6
VAV 5-2	KRUEGER KRUEGER	LMHS	7	468	140	11.2	400	65	91	0.09 0.09	1	180	157.7 157.7	0.7	1	1
VAV 5-3 VAV 5-4	KRUEGER	LMHS	10	468 1100	140 375	11.2 20.6	400 800	65 65	91 89	0.09	3	180 180	166.3	0.7	1	1
VAV 5-4 VAV 5-5	KRUEGER	LMHS	8	791	240	13.8	500	65	91	0.27	2	180	166.2	1.5 2.5	I	1
VAV 5-5 VAV 5-6	KRUEGER	LMHS	7	565	170	11.2	400	65	91	0.24		180	157.7	0.7	I	1
VAV 5-0 VAV 5-7	KRUEGER	LMHS	7	600	180	11.2	400	65	91	0.13	1	180	157.7	0.7	I	1
VAV 5-7 VAV 5-8	KRUEGER	LMHS	7	630	210	12.4	460	65	90	0.14	2	180	167.6	2.5	I	1
VAV 5-6 VAV 5-9	KRUEGER	LMHS	7	530	160	7.9	295	65	90	0.13	0.5	180	148.5	0.2	1	1
VAV 5-9 VAV 5-10	KRUEGER	LMHS	8	798	240	E. 1	290	00	90	0.12	0.0	100	140.0	0.2	ı	1
VAV 5-10 VAV 5-11	KRUEGER	LMHS	8	798	240											1
VAV 5-11 VAV 5-12	KRUEGER	LMHS	8	665	200											1
VAV 5-12 VAV 5-13	KRUEGER	LMHS	6	300	90	7.1	265	65	90	0.07	1	180	165.9	0.5	1	1
VAV 5-13 VAV 5-14	KRUEGER	LMHS	6	300	90	7.1	265	65	90	0.07	1	180	165.9	0.5	1 1	1
/AV 5-14 /AV 5-15	KRUEGER	LMHS	8	665	200	1.1	200	00	30	0.07		100	100.9	0.0	ı	1
/AV 5-15 /AV 5-16	KRUEGER	LMHS	8	798	240											1
/AV 5-10 /AV 5-17	KRUEGER	LMHS	8	798	240											1
/AV 5-17 /AV 5-18	KRUEGER	LMHS	8	798	240											1
VAV 5-10 VAV 5-19	KRUEGER	LMHS	8	710	215											1
VAV 5-19 VAV 5-20	KRUEGER	LMHS	7	541	165											1
VAV 5-20 VAV 5-21	KRUEGER	LMHS	9	940	285											1
VAV 5-21 VAV 5-22	KRUEGER	LMHS	8	560	200	9.8	365	65	90	0.17	1	180	160.4	0.7	1	1
/AV 5-25	KRUEGER	LMHS	6	399	120	10.2	350	65	92	0.12	2	180	169.8	1.8	1	1
VAV 5-26	KRUEGER	LMHS	7	532	160	7.4	275	65	90	0.12	0.5	180	150.5	0.2	<u>'</u> 1	1
VAV 5-27	KRUEGER	LMHS	10	1257	380	7.7	210		30	0.12	0.0	100	100.0	0.2		1
VAV 5-27 VAV 5-28	KRUEGER	LMHS	8	843	255											1
/AV 5-29	KRUEGER	LMHS	8	642	195											1
VAV 5-29 VAV 5-30	KRUEGER	LMHS	8	798	240											1
	KRUEGER	LMHS	8	798	240											1
VAV 5-31 VAV 5-32	KRUEGER	LMHS	8	682	240											1
/AV 5-33	KRUEGER	LMHS	8	798	240											1
VAV 5-34	KRUEGER	LMHS	8	798	240											1
VAV 5-35	KRUEGER	LMHS	8	798	240											1
VAV 5-36	KRUEGER	LMHS	7	532	160											1
VAV 5-37	KRUEGER	LMHS	7	532	160											1
VAV 5-38	KRUEGER	LMHS	10	1095	340	19.2	800	65	87	0.22	2	180	160.8	0.7	1	1
VAV 5-39	KRUEGER	LMHS	12	1336	400	19.6	725	65	90	0.17	2	180	160.4	0.9	 1	1
/AV 5-40	KRUEGER	LMHS	12	810	250	14.7	545	65	90	0.17	1.5	180	160.0	0.34	<u>'</u> 1	1,6
VAV 5-41	KRUEGER	LMHS	12	1330	400	19.6	600	65	95	0.17	2	180	160.4	0.9	<u>·</u> 1	1
VAV 5-42	KRUEGER	LMHS	9	931	280	14.0	400	65	97	0.16	2	180	166.0	0.7	<u>.</u> 1	1
VAV 5-43	KRUEGER	LMHS	7	540	165	7.4	200	65	99	0.12	0.5	180	150.5	0.2	 1	1
VAV 5-44	KRUEGER	LMHS	7	540	165	12.4	400	65	94	0.12	2	180	167.6	2.5	1	1
VAV 5-45		LMHS	6	312	100	6.2	200	65	94	0.08	0.5	180	155.2	0.2	1	1
VAV 5-45	KKUEGEK	LIVIH5	0	312	100	0.2	∠00	05	94	ს.სგ	0.5	180	155.2	0.2	1	

DIVISION 23 0000 MECHANICAL SPECIFICATION

- GENERAL REQUIREMENTS a. ALL WORK SHALL CONFORM TO THE REQUIREMENTS THE FOLLOWING CODES AND OF THE APPLICABLE LOCAL, STATE, AND ORDINANCES AND REGULATIONS.
- b. 2021 STATE OF IOWA MECHANICAL CODE (BASED ON THE 2021 INTERNATIONAL MECHANICAL CODE) c. 2012 INTERNATIONAL ENERGY CONSERVATION CODE.
- d. SUBMIT AND PAY FOR ALL NECESSARY PERMITS FOR MECHANICAL INSTALLATION. e. FURNISH AND INSTALL ALL LABOR AND MATERIAL REQUIRED FOR A COMPLETE, FUNCTIONING, MECHANICAL SYSTEM WITH ALL EQUIPMENT AND APPARATUS SHOWN ON THE PLANS. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
- f. OBSERVE CONDITIONS WHICH WORK WILL BE COMPLETED. ANY DISCREPANCIES SHALL BE CALLED TO THE ENGINEER'S ATTENTION. g. WARRANTY TO THE OWNER: QUALITY OF MATERIALS, EQUIPMENT, WORKMANSHIP AND OPERATION OF EQUIPMENT PROVIDED FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL
- COMPLETION HAS BEEN ISSUED. h. EQUIPMENT LISTED IN SCHEDULES OR ON DRAWINGS INDICATES BASIS OF DESIGN. EQUIPMENT SHALL AT A MINIMIM BE SIMILAR TO THE BASIS OF DESIGN.
- a. PIPING: HANGERS SHALL COMPLY WITH MSS SP-58 PIPE HANGERS AND SUPPORTS. USE TRAPESE SUPPORTS WHEN ABLE.
- b. DUCTWORK: SUPPORT DUCTWORK AND ACCESSORIES IN ACCORDANCE WITH SMACNA RECOMMENDATIONS. 3. IDENTIFICATION OF HVAC PIPING, DUCTWORK AND EQUIPMENT
- a. ALL EQUIPMENT SHALL BE PROVIDED WITH AN EQUIPMENT TAG b. ALL HVAC PIPING SHALL BE PROVIDE WITH PIPE MARKERS (20 FT MINIMUM SPACING)
- c. PROVIDE FLOW DIRECTION FOR HVAC PIPING d. PROVIDE CEILNG TAGS TO IDENTIFY LOCATION OF HVAC VALVES AND DEVICES e. PROVIDE CEILING TAGS TO IDENTIFY LOCATION OF HVAC DAMPERS
- 4. HVAC SYSTEM METERS AND GAUGES: a. PROVIDE ADJUSTABLE STEM THERMOMETERS AS LOCATIONS SHOW ON THE DRAWINGS.
- b. PROVIDE MINIMUM 3.5" PRESSURE GAUGE AT LOCATIONS SHOWN ON THE DRAWINGS. 5. TESTING, ADJUSTING AND BALANCING a. PROVIDE A COMPLETE BALANCING REPORT FOR AIR SIDE EQUIPMENT AND DIFFUSERS, REGISTERS AND GRILLES.
- b. PROVIDE A COMPLETE BALANCING REPORT FOR WATER SIDE EQUIPMENT AND COILS. c. REPORT ANY DEFICIENCIES TO ENGINEER BEFORE LEAVING SITE TO ASSIST IN IDENTIFYING CORRECTIVE OPTIONS.
- a. BUILDING AUTOMATION CONTROLS SHALL BE AN EXTENSION OF THE EXISTING SIEMENS BUILDING AUTOMATION SYSTEM. COORDINATE WITH SIEMENS (BRANDON WAGONER,
- BRANDON.WAGONER@SIEMENS.COM, 515-414-5810) PRIOR TO BID. INCLUDE LUMP SUM ALLOWANCE FOR CONTROLS WORK. CONTRACTOR SHALL SUBMIT INVOICES, DELIVERY SLIPS, AND/OR TIME SHEETS TO SHOW ACTUAL QUANTITIES TO BE SIGNED OFF BY CONSTRUCTION MANAGER AT THE TIME OF EXECUTION/DELIVERY.
- a. DUCT WRAP: FLEXIBLE GLASS FIBER (ASNI/ASTM C612) DUCT WRAP, 1.5 INCH THICK MINIMUM "K" VALUE OF 0.29 AT 75 DEGREES F, FSK FACING AND SEAL JOINTS
- b. LINER: FLEXIBLE COATED GLASS FIBER (ASNI/ASTM C612) DUCT LINER, 1.0 INCH THICK MINIMUM "K" VALUE OF 0.29 AT 75 DEGREES F, FSK FACING AND SEAL JOINTS. c. PROVIDE DUCT WRAP ON ALL SUPPLY AIR DUCTWORK.
- e. PROVIDE DUCT WRAP FOR ALL DUCTWORK WITHIN 10 FEET OF AN EXTERIOR WALL. 8. HVAC PIPING INSULATION
- a. GLASS FIBER INSULATION (ASTM C547) RIGID MOLDED, NON-COMBUSTIBLE, MINIMUM "K" VALUE: 0.25 AT 75 DEGREES F (ASTM C177). MINIMUM OF 1.5-INCH-THICK INSULATION WITH PVC FITTING COVERS.

d. PROVIDE DUCT LINER ON ALL TRANSFER AIR DUCTWORK AND DUCTWORK INDENTIFIED ON THE PLANS REQUIRING DUCT LINER

- b. PROVIDE 2" INSULATION ON ALL HEATING WATER PIPING 1.5" OR GREATER. c. PROVIDE 1" INSULATION ON HVAC CONDENSATE PIPING.
- 9. HYDRONIC PIPING: a. ABOVE GRADE: ASTM B88 TYPE L WITH ASTM B16.22 WROUGHT COPPER, SOLDER OR BRAZED JOINTS OR ASTM A53 SCHEDULE 40 STEEL WITH THREADED OR GROVED OR WELDED JOINTS.
- a. DUCTWORK CONSTRUCTION: GALVANIZED STEEL (ASTM A653) TYPE B, WITH G60/Z180 COATING
- RECTANGULAR DUCT: PLANS SHOW INTERIOR DIMENSION. DUCT PRESSURE CLASS: 2 INCH SEAL LONGITUDE AND HORIZONTAL SEAMS. SPIRAL DUCT - DUCT AND FITTING SHALL BE BY THE SAME MANUFACTURER. DUC PRESSURE CLASS – 2" INCH – SEAL JOINTS.
- 3. DUCTWORK AND FITTINGS SHALL BE FABRICATED AND SUPPORTED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS. 4. DUCTWORK SHALL BE SUPPORTED IN ACCORDANCE WITH SECTION IV OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

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PROJECT

# DAS CC IDALS **HOOVER 5TH FLOOR RENOVATION**

DES M	OINES	IOWA		
	REVISION SCHEDULE			
DATE	DESCRIPTION	BY		

PROJECT NO.	24-31954
FILE NAME	31954 Mech R24
DRAWN BY	JKS
DESIGNED BY	JKS
REVIEWED BY	AWP
ORIGINAL ISSUE DATE	01/21/25

CLIENT PROJECT NO. 9426.00

TITLE

**MECHANICAL SCHEDULES AND SPECIFICATIONS** 

M5-11

1/21/2025 11:26:14 AM

# ELECTRICAL KEYNOTE LEGEND

- EXISTING ADDRESSABLE SMOKE DETECTOR. CONTRACTOR TO REMOVE AND STORE SMOKE DETECTOR HEADS AND REPLACE WITH HEAT DETECTOR HEAD MOUNTED IN EXISTING DEVICE BASE FOR CONSTRUCTION PHASE. REPLACE HEAT DETECTOR HEADS WITH EXISTING SMOKE DETECTOR HEADS AFTER CONSTRUCTION. COORDINATE
- WITH OWNER FIRE ALARM SYSTEM MAINTENANCE CONTRACTOR TO REPROGRAM SYSTEM AS REQUIRED. TYPICAL UNLESS OTHERWISE NOTED. EXISTING FIRE ALARM CONTROL PANEL LOCATED BELOW
- ON HOOVER A LEVEL. 3 EXISTING PANEL TO REMAIN. SHOWN FOR REFERENCE. 6 EXISTING WALL HORN/STROBE DEVICE TO REMAIN.
- 18 EXISTING PA SPEAKER TO REMAIN AND BE PROTECTED. TYPICAL UNLESS OTHERWISE NOTED. DEMOLISH EXISTING LIGHT FIXTURE, ENCLOSURES. RACEWAY, AND CONDUCTORS BACK TO SOURCE (TYPICAL). IN CASES WHERE NOT ALL DEVICES ON CIRCUIT ARE BEING DEMOLISHED, CONTRACTOR TO RE-FEED EXISTING DEVICES ON CIRCUIT NOT BEING DEMOLISHED. TYPICAL
- UNLESS OTHERWISE NOTED. DEMOLISH EXISTING DEVICE, ENCLOSURES, RACEWAY, AND CONDUCTORS BACK TO SOURCE (TYPICAL). IN CASES WHERE NOT ALL DEVICES ON CIRCUIT ARE BEING DEMOLISHED. CONTRACTOR TO RE-FEED EXISTING
- DEVICES ON CIRCUIT NOT BEING DEMOLISHED. D3 EXISTING DEVICE AND FACEPLATE TO BE REPLACED WITH NEW. MATCH NEW DEVICE AND FACEPLATE FINISHES. D4 DEMOLISH EXISTING RECESSED WALL MOUNTED JUNCTION BOX. EXTEND CONDUIT AND CONDUCTORS AS REQUIRED FOR RELOCATING JUNCTION BOX TO ABOVE ACCESSIBLE

CEILING SPACE.

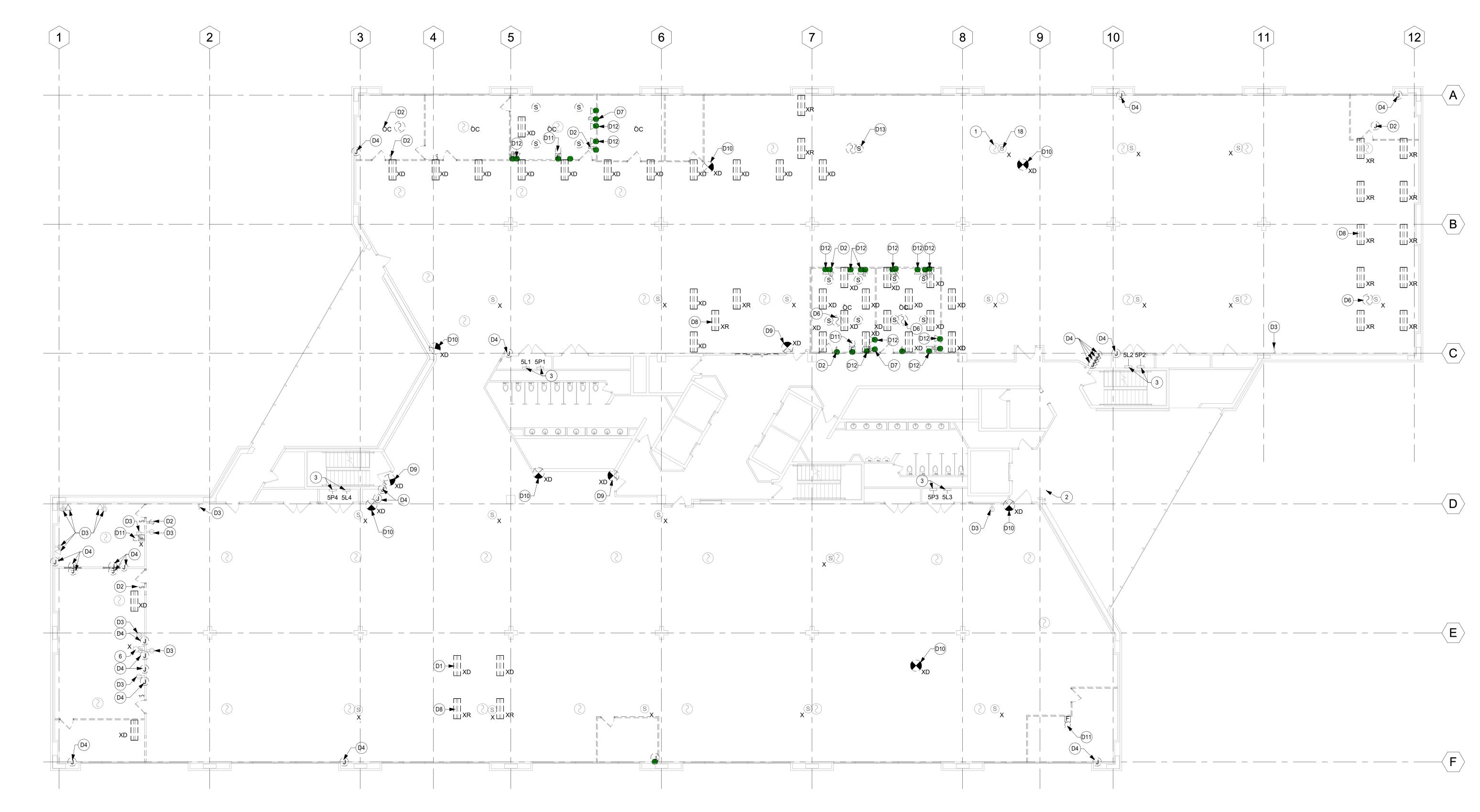
# ELECTRICAL KEYNOTE LEGEND

- D6 EXISTING SMOKE DETECTOR TO BE REMOVED AND RELOCATED. EXTEND CONDUCTORS AS REQUIRED. SEE POWER AND FIRE ALARM PLAN FOR NEW LOCATION. D7 DEMOLISH EXISTING SURFACE MOUNTED RACEWAY,
- DEVICE, AND CONDUCTORS BACK TO SOURCE (TYPICAL). IN CASES WHERE NOT ALL DEVICES ON CIRCUIT ARE BEING DEMOLISHED. CONTRACTOR TO RE-FEED EXISTING DEVICES ON CIRCUIT NOT BEING DEMOLISHED. D8 EXISTING LIGHT FIXTURE TO BE REMOVED AND RELOCATED. CONTRACTOR TO RE-FEED EXISTING DEVICES
- ON CIRCUIT NOT BEING REMOVED. CONNECT TO EXISTING LIGHTING CIRCUIT AND CONTROLS. EXTEND CONDUIT AND CONDUCTORS AS REQURIED. SEE LIGHTING FLOOR PLAN FOR NEW LOCATION. TYPICAL UNLESS OTHERWISE NOTED. D9 EXISTING EXIT SIGN TO BE DEMOLISHED AND REPLACED BY NEW (TYPICAL). REUSE EXISTING UNSWITCHED HOT
- D10 EXISTING SELF ILLUMINATED TRITIUM EXIT SIGNAGE TO BE
- REMOVED AND DISPOSED OF PROPERLY FOLLOWING RADIOACTIVE WASTE REGULATIONS. 211 EXISTING FIRE ALARM DEVICE TO BE RELOCATED TO NEW
- WALL. REMOVE DEVICE AND COIL CONDUCTORS ABOVE CEILING TO BE REUSED. SEE NEW POWER AND FIRE ALARM
- PLAN FOR LOCATION. D12 EXISTING DATA DEVICE TO BE DEMOLISHED. DATA CABLING TO BE COILED ABOVE CEILING TO BE REUSED. D13 PA SPEAKER TO BE REMOVED AND RELOCATED. SEE NEW POWER AND FIRE ALARM PLAN FOR LOCATION. EXTEND

EXISTING CONDUCTORS AS REQUIRED.

#### SHEET NOTES

- . ALL EXISTING ELECTRICAL EQUIPMENT INDICATED ON PLANS ARE BASED ON INFORMATION FROM CONSTRUCTION DOCUMENTS AND FIELD OBSERVATION OF THE EXISTING
- 2. ALL EXISTING DEVICES SHOWN ON DEMOLITION PLANS AND ASSOCIATED WIRES ARE TO BE DEMOLISHED BACK TO SOURCE OF POWER, UNLESS NOTED OTHERWISE.
- 3. CONTRACTOR SHALL REMOVE ALL ABANDONED CABLING BACK TO SOURCE OF POWER. 4. CONTRACTOR IS RESPONSIBLE FOR RECONNECTION OF
- ANY EXISTING ACTIVE CIRCUITS AND/OR SPECIAL SYSTEM CABLES INTERRUPTED BY DEMOLITION AS REQUIRED TO KEEP OPERABLE.
- 5. ELECTRICAL PANELBOARDS AND SERVICE GEAR ARE TO REMAIN. PANELBOARDS ARE SHOWN FOR REFERENCE AND COORDINATION TO MAINTAIN CLEARANCES AROUND EQUIPMENT.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND PAINTING ALL SURFACES WHERE RACEWAY HAS BEEN REMOVED. MATCH ADJACENT SURFACE.
- 7. ALL ABANDONED SURFACE RACEWAY SHALL BE REMOVED AND PATCHED/PAINTED TO MATCH ADJACENT SURFACE.
- 8. 6. CONTRACTOR TO COORDINATE WITH FIRE ALARM CONTROL MAINTENANCE CONTRACTOR FOR PROGRAMING OF SYSTEM FOR SMOKE DETECTORS IN CONSTRUCTION AREAS TO BE REMOVED AND REPLACED WITH HEAT DETECTORS DURING CONSTRUCTION AND REPROGRAMMING BACK TO SMOKE DETECTORS AFTER CONSTRUCTION PHASE IS COMPLETED.
- 9. 'X' INDICATES EXISTING DEVICE TO BE PROTECTED AND
- 10. ALL EXISTING DEVICES AND EQUIPMENT NOT INDICATED IN ELECTRICAL DEMOLITION PLANS ARE TO REMAIN AND BE PROTECTED.



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DAS CC IDALS **HOOVER 5TH FLOOR** RENOVATION

DES MO	OINES		IOWA
	F	REVISION SCHEDULE	
DATE		DESCRIPTION	BY
PROJECT	ΓNO.	24-31954	
FII E NAM	1=	31954 Flec R24 rvt	

RDS

ORIGINAL ISSUE DATE 01/21/2025 CLIENT PROJECT NO. 942600-01

TITLE

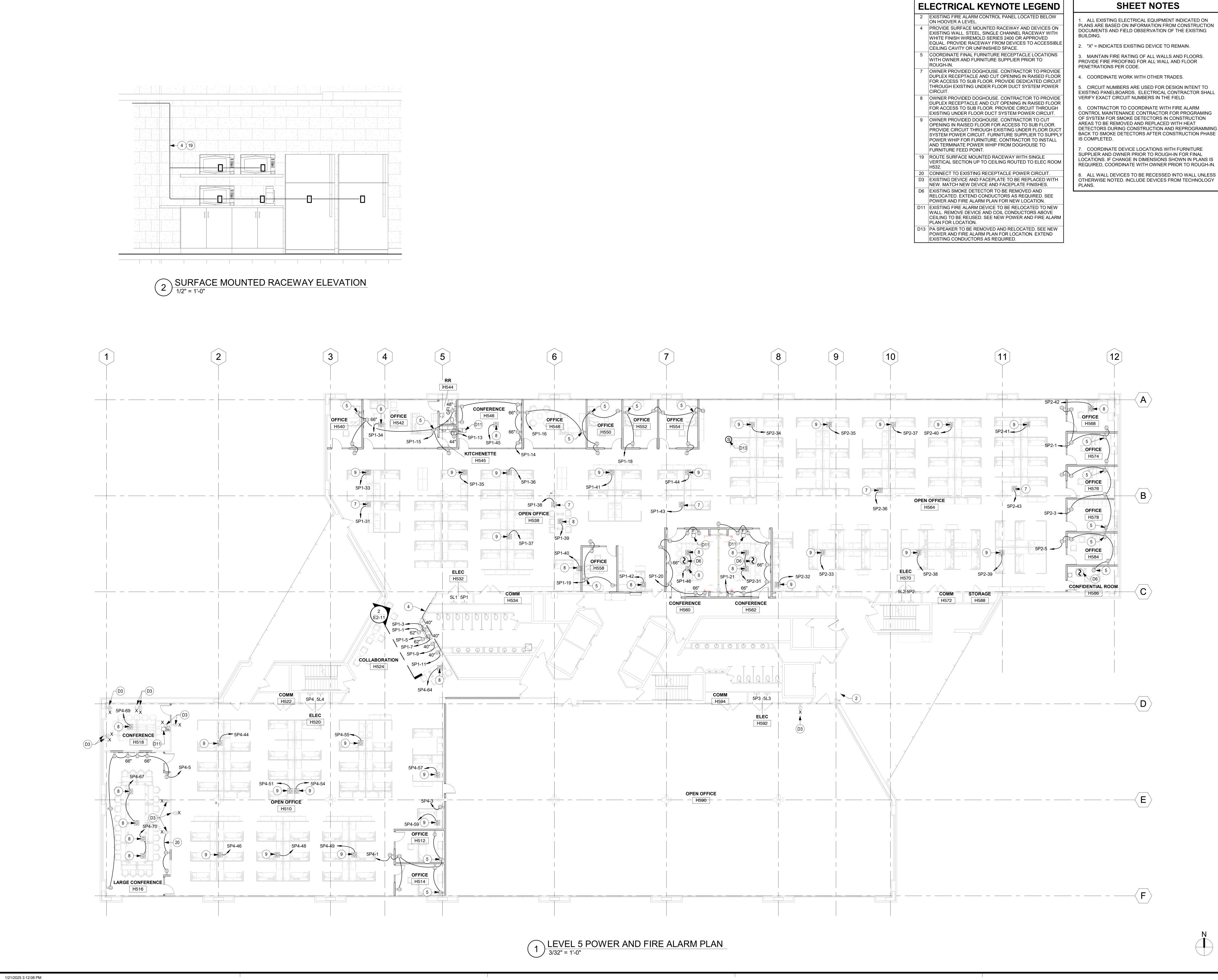
**LEVEL 5 ELECTRICAL DEMOLITION** 

**PLAN** 

E1-11

1 LEVEL 5 ELECTRICAL DEMOLITION PLAN
3/32" = 1'-0"

1/21/2025 3:12:03 PM



DETECTORS DURING CONSTRUCTION AND REPROGRAMMING BACK TO SMOKE DETECTORS AFTER CONSTRUCTION PHASE

LOCATIONS. IF CHANGE IN DIMENSIONS SHOWN IN PLANS IS REQUIRED, COORDINATE WITH OWNER PRIOR TO ROUGH-IN.

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DAS CC IDALS **HOOVER 5TH FLOOR** RENOVATION

DATE		ESCRIPTION	BY
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REVISION SCHEDULE

TITLE

REVIEWED BY

ORIGINAL ISSUE DATE 01/21/2025

CLIENT PROJECT NO. 942600-01

**LEVEL 5 POWER AND FIRE ALARM PLAN** 

**E2-11** 

5 COORDINATE FINAL FURNITURE RECEPTACLE LOCATIONS WITH OWNER AND FURNITURE SUPPLIER PRIOR TO 1. ALL EXISTING ELECTRICAL EQUIPMENT INDICATED ON PLANS ARE BASED ON INFORMATION FROM CONSTRUCTION DOCUMENTS AND FIELD OBSERVATION OF THE EXISTING 13 EXISTING SUB FLOOR VDE DUCT TRAY SYSTEM FOR BUILDING. ROUTING OF DATA AND POWER CIRCUITS. DOGHOUSE PUNCH FOR ACCESS TO TRAY AT TICK MARKS SHOWN. 2. "X" = INDICATES EXISTING DEVICE TO REMAIN. 3. MAINTAIN FIRE RATING OF ALL WALLS AND FLOORS. PROVIDE FIRE PROOFING FOR ALL WALL AND FLOOR PENETRATIONS PER CODE. 4. COORDINATE WORK WITH OTHER TRADES. 5. CIRCUIT NUMBERS ARE USED FOR DESIGN INTENT TO EXISTING PANELBOARDS. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT CIRCUIT NUMBERS IN THE FIELD. 6. CONTRACTOR TO COORDINATE WITH FIRE ALARM CONTROL MAINTENANCE CONTRACTOR FOR PROGRAMING OF SYSTEM FOR SMOKE DETECTORS IN CONSTRUCTION AREAS TO BE REMOVED AND REPLACED WITH HEAT DETECTORS DURING CONSTRUCTION AND REPROGRAMMING BACK TO SMOKE DETECTORS AFTER CONSTRUCTION PHASE IS COMPLETED. 7. COORDINATE DEVICE LOCATIONS WITH FURNITURE SUPPLIER AND OWNER PRIOR TO ROUGH-IN FOR FINAL LOCATIONS. IF CHANGE IN DIMENSIONS SHOWN IN PLANS IS REQUIRED, COORDINATE WITH OWNER PRIOR TO ROUGH-IN. 8. ALL WALL DEVICES TO BE RECESSED INTO WALL UNLESS OTHERWISE NOTED. INCLUDE DEVICES FROM TECHNOLOGY 16' - 9" 18' - 3" 16' - 3" KITCHENETTE 7' - 3" | 8' - 0" CONFIDENTIAL ROOM COLLABORATION 17' - 2" 5P3 | 5L3 LARGE CONFERENCE OFFICE 2' - 5" OFFICE H514 1 LEVEL 5 POWER DEVICE DIMENSIONS
3/32" = 1'-0" 1/21/2025 3:12:09 PM

SHEET NOTES

- **ELECTRICAL KEYNOTE LEGEND**

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PROJECT

DAS CC IDALS **HOOVER 5TH FLOOR** RENOVATION

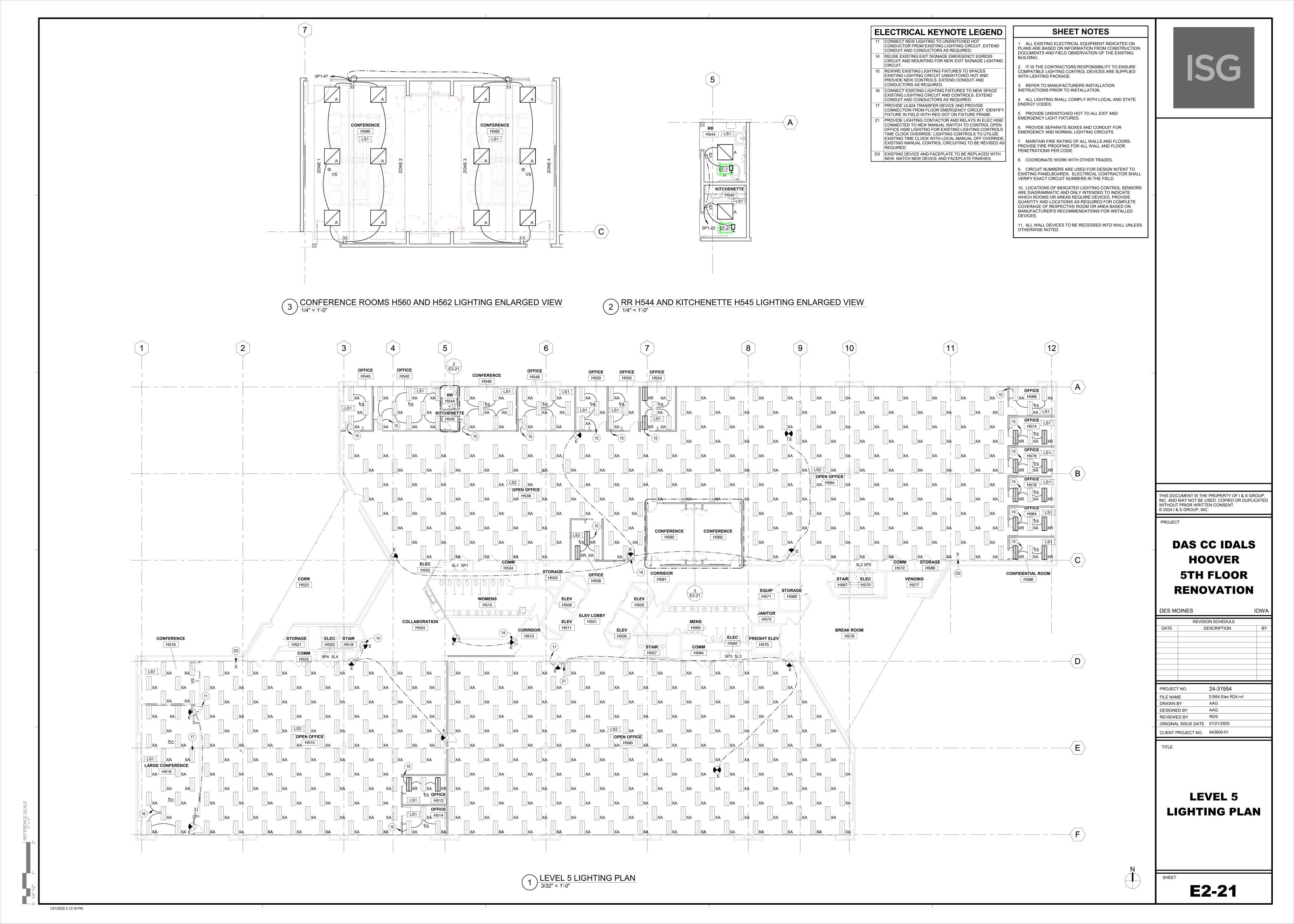
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PROJEC	ΓNO.	24-31954	
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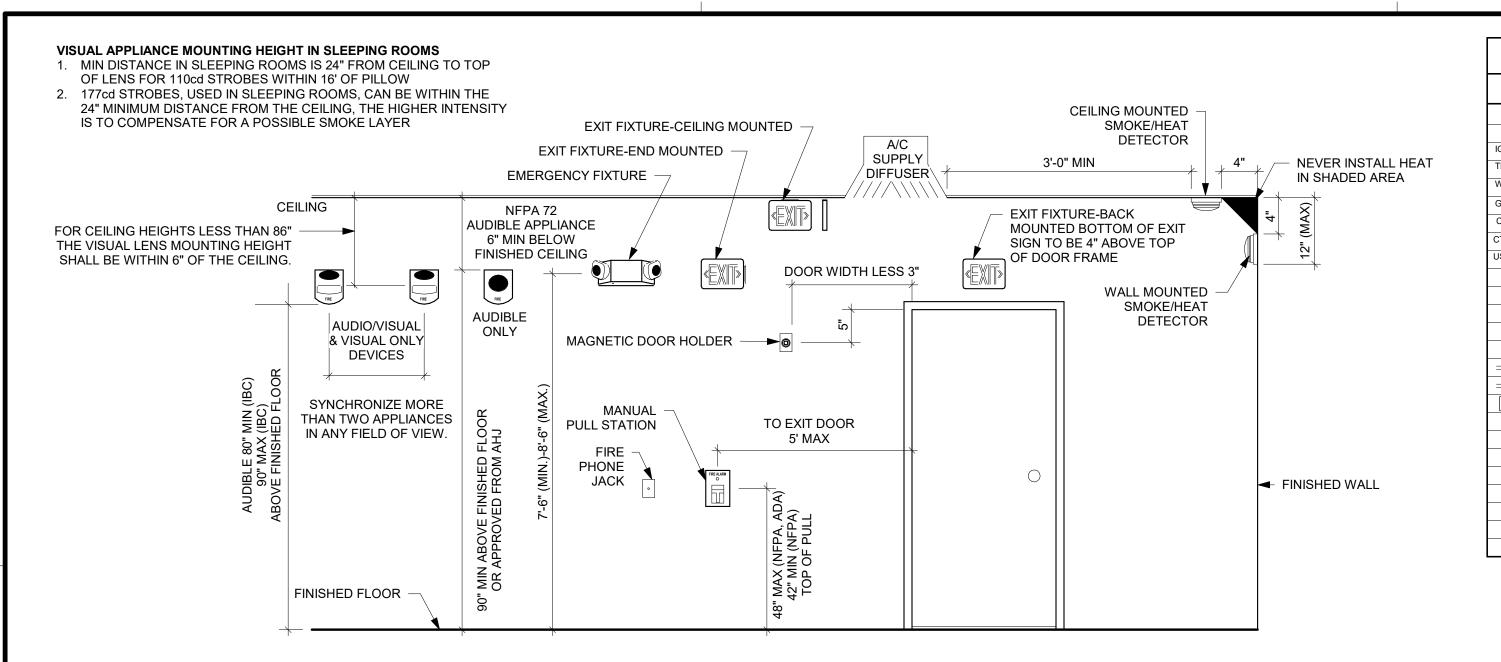
DESIGNED BY RDS REVIEWED BY ORIGINAL ISSUE DATE 01/21/2025

CLIENT PROJECT NO. 942600-01 TITLE

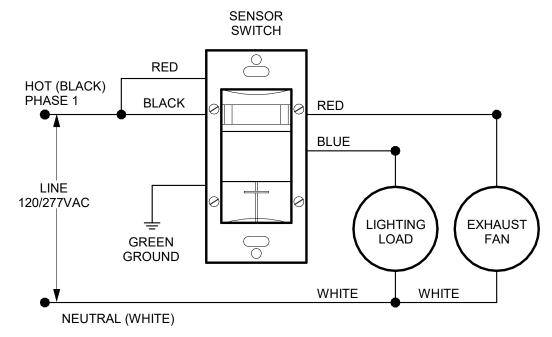
**LEVEL 5 POWER DEVICE DIMENSIONS** 

**E2-12** 





1 TYPICAL MOUNTING HEIGHTS DETAIL
NOT TO SCALE



2 EXHAUST FAN CONTROL DETAIL NOT TO SCALE

					ELEC1	TRIC	CAL SYMBOLS LI	EGE	ND						
	RECEPTACLES		SWITCHES	MIS	SC. POWER SYMBOLS	FIRE	PROTECTION SYSTEM		COMMUNICATIONS		SECURITY	E	LECTRICAL PANELS	Т	AG DESCRIPTIONS
$\ominus$	SIMPLEX	\$	SINGLE POLE		DISCONNECT	FACP	FIRE ALARM CONTROL PANEL	$\nabla$	DATA JACK -WALL	ACS	ACCESS CONTROLLED DOOR	P1	FLUSH MOUNT PANELBOARD	∑LS?⟨	LIGHTING SCENARIO
$\leftarrow$	DUPLEX	\$2	DOUBLE POLE	ď	FUSED DISCONNECT	FAAP	FIRE ALARM ANNUNCIATOR PNL		FLOOR DATA JACK	<del>P)</del>	ADA DOOR OPERATOR	P1	SURFACE MT PANELBOARD	#	KEYNOTE
IG 🕁	ISOLATED GROUND	\$ <sub>3</sub>	3-WAY	<b>X</b>	FAN	(S)	SMOKE DETECTOR		DATA JACK -CEILING		CAMERA	PHONE	PHONE SYSTEM		
TR 🕁	TAMPER RESISTANT	\$4	4-WAY	M	ELECT. CONTROLLED VALVE	Ĭ)	HEAT DETECTOR	V	TELEPHONE JACK- WALL	CR	CARD READER - ELECTRONIC				
WP⊕	WEATHER PROOF W/GFI	\$ <sub>E</sub>	EMERGENCY	F	FUSESTAT	FX	HORN STROBE	1	DATA/VOICE JACK - WALL	DB	DURESS BUTTON			<u> </u>	WIDE TYPES
GFI⊕	GROUND FAULT INTERRUPT	\$ <sub>F</sub>	FAN	(D)	HAND DRYER	$\vdash$	HORN ONLY	TV	TELEVISION JACK	DC	DOOR CONTACT				WIRE TYPES
CR 🕁	CONTROLLED RECEPTACLE	\$ <sub>K</sub>	KEY OPERATED	$\overline{\mathbb{H}}$	HAIR DRYER	\(\text{QC}\)c	STROBE ONLY (C = CLG MTD)	(s)	SPEAKER - CEILING	RX	REQUEST TO EXIT				STANDARD
CTR	COUNTERTOP RECEPTACLE	\$ <sub>LV</sub>	LOW VOLTAGE	H	HEATER	S Sc	SPKR STROBE (C = CLG MTD)	S	SPEAKER - WALL/SURFACE	DAA	DOOR ALARM ANNUNCIATOR				LOW-VOLTAGE
USB⊖	COMBO RECEPTACLE / USB	\$ <sub>P</sub>	PILOT LIGHT	J	JUNCTION BOX	FU	EXTERIOR HORN W/ STROBE	⊢©	CLOCK	DL	ELECTRIC LOCK				- UN-SWITCHED HOT
<del>-</del>	HIGH VOLTAGE	\$ <sub>T</sub>	TIMER	(D)	MOTOR	М	MINI HORN	ВО	BELL	SEC	DOOR SECURITY MONITOR				
<b>=</b>	SPLIT WIRE	\$св	CIRCUIT BREAKER	(O) <sub>2</sub>	MOTOR WITH DISCONNECT	Α	ANSUL TIE		BUZZER	KP	KEY CARD PAD				
<b>—</b>	DOUBLE DUPLEX	\$ <sub>D</sub>	DIMMER	© R	RELAY	TS	SPRINKLER TAMPER SWITCH	IC	INTERCOM	РВ	PUSH BUTTON				
$\Rightarrow$	220 VOLT	\$ <sub>H</sub>	ILLUMINATED HANDLE	□₽	SOLENOID VALVE	FS	SPRINKLER FLOW SWITCH		MICROPHONE	R	AREA OF RESCUE-CALL				
$\bigcirc$	SPECIAL PURPOSE	\$ <sub>M</sub>	MOTOR	⊠ <sup>1</sup>	COMBINATION STARTER & DISC	⊬ws) <sub>F</sub>	WALL SPEAKER - FIRE		SPEAKER/CLOCK	ě	SECURITY ALARM HORN				
$\Rightarrow$	CEILING MOUNTED RECPT	\$sc	SPEED CONTROLLER	$\bowtie$	MOTOR STARTER	(s) <sub>FA</sub>	CEILING SPEAKER - FIRE	TC	TIME CLOCK						
=⊗=	CEILING MOUNTED SP RECPT	\$w	SPRING WOUND TIMER	T	THERMOSTAT	H	MAGNETIC DOOR HOLDER	WAP	WIRELESS ACCESS POINT						
	FLOOR BOX RECEPTACLE	\$ <sub>MC</sub>	MOMENTARY CONTACT	SD-	DUCT-TYPE SMOKE DETECTOR	F	MANUAL PULL STATION	TP	TOUCHPAD						
		\$ <sub>WP</sub>	WEATHER PROOF	<b>-</b>	USB CHARGING STATION	OAIM	ADDRESSABLE INPUT MODULE	PROJ	PROJECTOR						
		\$os	OCCUPANCY SENSOR-WALL			OAOM	ADDRESSABLE OUTPUT MOD.	ВТ	BLUETOOTH						
		\$vs	VACANCY SENSOR-WALL				ABORT SWITCH								
		♦os	OCCUPANCY SENSOR-CLG			∩C	BELL-CHIME								
		♦vs	VACANCY SENSOR-CLG			EOLD	END OF LINE RESISTOR								
		PC	PHOTO CELL			<b>□</b> (F/S)	FIRE/SMOKE DAMPER								
		•••	3-BUTTON SWITCH			<u></u> (s)	SMOKE DAMPER								
		\$ <sub>L?</sub>	LOW VOLTAGE SWITCH / TYPE			co	CARBON MONOXIDE DETECTOR								

LIGHT FIXTURE SCHEDULE

14T8/COR/48-840/IF21/G 10/1 PK33B4AL (3)14W 4000K CCT

14T8/COR/48-840/IF21/G 10/1 PK33B4AL (3)14W 4000K CCT

MANUFACTURER

LIGHTALARMS

2PFZ-38B-840-2-DS-UNV-DIM

QLX500-RN

	ELECTRICAL EQUIPMENT SCHEDULE												
	POWER REQUIREMENTS MINIMUM CONDUIT, STARTER DISCONNECT												
TAG	DESCRIPTION	HP	VOLTS	POLES	FLA	VA	LOCATION	WIRE SIZE, GROUND	TYPE	BY	TYPE	BY	NOTES
EF-1	RESTROOM EXHAUST FAN	FRACTIONAL	120 V	1	0.3 A	35 VA	RR H544	3/4"C, 2- 12's, 12GND	MAG	WU	NF	WU	INTERCONNECT TO ROOMS LIGHTING CONTROLS.
EF-2	KITCHENETTE EXHAUST FAN	FRACTIONAL	120 V	1	0.2 A	20 VA	KITCHENETTE H545	3/4"C, 2- 12's, 12GND	MAG	WU	NF	WU	INTERCONNECT TO ROOMS LIGHTING CONTROLS.
MAG - MAGNE MAN - MANUAL SS - SOFT ST	INATION CONICALLY CONTROLLED MOTOR TIC STARTER L STARTER	STARTER EC - ELEC ES - EQUIF MC - MECH WU - WITH	TRICAL CO PMENT SU HANICAL C	PPLIER	OR	DISCONNECT BO - BY OTHER F - FUSED DISC NF - NON-FUSE WU - WITH UNI	S EC- CONNECT ES- ED DISCONNECT MC	SCONNECT BY · ELECTRICAL CONTRACTOR · EQUIPMENT SUPPLIER · MECHANICAL CONTRACTOR					

LAMP

34W 3800 LUMENS 4000K CCT	INSTALLED IN 2X2 ACT CEILING.
LED	PROVIDE UNSWITCHED HOT TO FIXTURE.
_ (3)14W 4000K CCT	RELAMP ALL EXISTING LIGHT FIXTURES TO REMAIN. PROPERLY DISPOSE OF EXISTING FLOURESCENT BULBS.
VARIES	PROPERLY DISPOSE OF FIXTURE BULBS, BALLASTS, AND HOUSING. SEE PLAN SHEETS FOR ADDITIONAL REQUIREMENTS.
_ (3)14W 4000K CCT	NEW BULBS TO BE OWNER PROVIDED AND CONTRACTOR INSTALLED. PROPERLY DISPOSE OF EXISTING FLOURESCENT BULBS.
·	
	LIGHTING SCENARIO SCHEDULE
	LIGITING GOLIAMO GOTILDOLL

TYPE COMMENTS

LIGHTING SCENARIO DESCRIPTION LS1 VACANCY SENSOR AND MANUAL ON/OFF. VACANCY SENSOR TO TURN OFF LIGHTING AFTER 20 MINUTES OF OCCUPANT LEAVING SPACE AND RETURN TO A MANUAL ON STATE. EXISTING TIME CLOCK SYSTEM. UTILIZE EXISTING LIGHTING CIRCUIT AND CONTROLS FOR SPACE.

	Location: ELEC H520 Supply From: Mounting: Surface Enclosure: Type 1						Volts: Phases: Wires:	-	Nye	A.I.C. Rating: 10 kAIC  Mains Type: MLO  Mains Rating: 125 A  MCB Rating: 125 A					
	ING S	SQUARE D NQ PANELBOARD. PRINTED UPDATED PANEL SO			NG CIRC	UIT BREA	KERS TO	BE UTILIZ	ZED, REVI	ISE CIRC	UIT NU	MBERS	TO SPARE BREAKERS AS RE	QUIRI	ED.
Note								_							No
	CKT	•	Trip	Pole		4		<b>B</b>	(	; 	Pole	Trip	Circuit Description	CKT	
2		OFF H512 & H514 RECP	20 A	1	1260	0					1	20 A	JCT #2 E & W	2	
2		OPEN OFF H510 E PRNTR	20 A	1			180	0			1	20 A	JCT #4 E & W	4	
2		CONF H516 RECEP	20 A	1					1260	0	1	20 A	JCT #8E	6	
1		SPARE	20 A	1	0	0					1	20 A	SPARE	8	
1		SPARE	20 A	1			0	0			1	20 A	SPARE	10	
1		SPARE	20 A	1					0	0	1	20 A	SPARE	12	
1		SPARE	20 A	1	0	0					1	20 A	SPARE	14	
1		SPARE	20 A	1			0	0			1	20 A	SPARE	16	
1		SPARE	20 A	1					0	0	1	20 A	SPARE	18	
1		SPARE	20 A	1	0	0					1	20 A	SPARE	20	
1		SPARE	20 A	1			0	0			1	20 A	SPARE	22	
1		ICN RECEPT / TELCO	20 A	1					0	0	1	20 A	SPARE	24	
1		ICN RECEPT / TELCO	20 A	1	0	0					1	20 A	SPARE	26	
1		ICN RECEPT / TELCO	20 A	1			0	0			1	20 A	SPARE	28	
1		ICN RECEPT / TELCO	20 A	1					0	0	1	20 A	SPARE	30	
1	31	JCT #1E	20 A	1	0	0					1	20 A	RECEPTACLE	32	
1		JCT #3	20 A	1			0	0			1	20 A	RECEPTACLE	34	
1	35	SPARE	20 A	1					0	0	1	20 A	RECEPTACLE	36	
1	37	RECPT SW OFF E WALL	20 A	1	0	0					1	20 A	JCT #8E	38	
1	39	JCT #7E	20 A	1			0	0			1	20 A	JCT #10W	40	
1	41	JCT #7W	20 A	1					0	0	1	20 A	JCT #11W	42	
1	43	JCT #12E	20 A	1	0	180					1	20 A	JCT #5E	44	
1	45	W RM E WALL CENTER RE	20 A	1			0	180			1	20 A	JCT #19	46	
1	47	SPARE	20 A	1					0	180	1	20 A	JCT #19E	48	
2	49	JCT #20E	20 A	1	180	0					1	20 A	SPARE	50	
2	51	JCT #11	20 A	1			180	0			1	20 A	COPIER	52	
1	53	SPARE	20 A	1					0	180	1	20 A	JCT #11	54	
2	55	JCT #6E	20 A	1	180	0					1	20 A	RECEPTACLE	56	
2	57	JCT #10E	20 A	1			180	0			1	20 A	CORE AREA RECEPTACLE	58	
2	59	JCT #16E	20 A	1					180	0	1	20 A	UTILITY RM RECEP	60	
1	61	QUAD TELE RM	20 A	1	0	0					1	20 A	SPARE	62	
1	63	RECEPT. SW OFF E WALL	20 A	1			0	180			1	20 A	JCT COLLAB	64	
1	65	JCT #9	20 A	1					0	0	1	20 A	COPIER EAST	66	
2	67	JCT #11W & 15W	20 A	1	360	0					1	20 A	JCT #9W	68	
2	69	JCT #3W	20 A	1			180	360			1	20 A	JCT #17W & 19W	70	
1	71	JCT #1E	20 A	1					0	0	1	20 A	RECEPTACLE	72	
			Total	Load:	216	O VA	144	0 VA	1800	VA			•		•
	NOT		Total	Amps:	18	3 A	12	2 A	15	A					

Note   Circuit Description   Trip   Pole   A			Location: ELEC Supply From: Mounting: Surface Enclosure: Type 1	e				Volts: Phases: Wires:		Vye		A.I.C. Rating: 10 kAIC Mains Type: MCB Mains Rating: 125 A MCB Rating: 125 A				
Note   CKT   Circuit Description   Trip   Pole   A   B   C   Pole   Trip   Circuit Description   Trip   Pole   A   B   C   Pole   Trip   Circuit Description   Trip   Pole   A   B   C   Pole   Trip   Circuit Description   Trip   Pole   A   B   C   Pole   Trip   Circuit Description   Trip   Pole   A   B   C   Pole   Trip   Circuit Description   Trip   Pole   A   B   B   C   Pole   Trip   Circuit Description   Trip   Pole   A   B   B   C   Pole   Trip   Circuit Description   Trip   Pole   A   B   B   B   C   Pole   Trip   Circuit Description   Trip   Trip			SQUARE D NQ PANELBOARD.	VERIFY	EXISTI	NG CIRC	:UIT BREA	KERS TO	BE UTILIZ	ZED, REV	ISE CIRC	UIT NU	MBERS	TO SPARE BREAKERS AS R	EQUIRE	ΞD.
No.   Circuit Description										· .						
3   1   OFF H598 & FATA RECP	lote	CKT	Circuit Description	Trin	Polo		^		•		<u>^</u>	Polo	Trin	Circuit Description	СКТ	Note
3   3   0FF H576 & 578 RECP	2		•						•			Pole	Шр	Circuit Description	2	
3					-	1000	U	1000				,	105 1	MAINI	4	1
1								1000	<u> </u>	000	0	3	125 A	IVIAIIN	-	ı
1										900	U				6	
1 11 BLANK	•				- 1										8	
1   13   BLANK	•											3		MAIN	10	1
1 15 BLANK															12	
1 17 ICN RECEP / TELCO 20 A 1	1														14	1
1 19 BLANK	1				<del>                                     </del>							1			16	1
1 21 BLANK 1 1 0 0 1 1 0 0 1 1 0 0 0 1 1 0 0 0 0	1	17	ICN RECEP / TELCO	20 A	1					0		1		BLANK	18	1
1   23   ICN RECEP / TELCO   20 A	1	19	BLANK		1							1		BLANK	20	1
1	1	21	BLANK		1							1		BLANK	22	1
1   27   ICN RECEP / TELCO   20 A   1	1	23	ICN RECEP / TELCO	20 A	1					0		1		BLANK	24	1
1   29   RECEPTACLE   20 A   1   360   180   180   1   20 A   JCT#W    37   JCT#SW S5W   20 A   1   360   180   180   180   1   20 A   JCT#ZIW   37   JCT#ZIE   20 A   1   180   180   180   1   20 A   JCT#ZIW   37   JCT#ZIE   20 A   1   180   180   180   1   20 A   JCT#ZIW   39   JCT#G   20 A   1   180   180   180   1   20 A   JCT#ZIW   39   JCT#G   20 A   1   180   180   180   1   20 A   JCT#ZIW   39   JCT#G   20 A   1   180   180   180   1   20 A   JCT#ZIW   39   JCT#G   20 A   1   30   30   30   30   30   30   30	1	25	ICN RECEP / TELCO	20 A	1	0						1		BLANK	26	1
1   31   JCT #3W & 5W   20 A	1	27	ICN RECEP / TELCO	20 A	1			0				1		BLANK	28	1
1   33   JCT #5	1	29	RECEPTACLE	20 A	1					0		1		BLANK	30	1
1   33   JCT #5   20 A   1   20 A   1   20 A   1   20 A   1   20 A   3CT #21W     1   35   JCT #21	1	31	JCT #3W & 5W	20 A	1	360	180					1	20 A	JCT #1W	32	1
1   35   JCT #21	1	33			1			180	180			1			34	1
1   37   JCT #21E	1				+					180	180	1			36	1
1         39         JCT #6         20 A         1         180         180         1         20 A         JCT #22W           1         41         JCT #22         20 A         1         180         180         180         1         20 A         JCT #24E           1         43         JCT #14         20 A         1         180         0         0         1         20 A         JCT #8W           1         45         JCT #9E         20 A         1         0         0         0         1         20 A         JCT #10W           1         47         JCT #9E         20 A         1         0         0         0         1         20 A         JCT #10W           1         49         JCT #11 & 12E         20 A         1         0         0         0         1         20 A         JCT #10W           1         51         JCT #18W         20 A         1         0         0         0         1         20 A         JCT #10W           1         53         JCT #11 & 12E         20 A         1         0         0         0         1         20 A         JCT #5W           1         55         <	1					180	180			100	100				38	1
1       41       JCT #22       20 A       1       180       180       120 A       JCT #24E         1       43       JCT #14       20 A       1       180       0       0       1       20 A       JCT #8W         1       45       JCT #9W       20 A       1       0       0       0       1       20 A       JCT #8E         1       47       JCT #9E       20 A       1       0       0       0       1       20 A       JCT #10W         1       49       JCT #18E       20 A       1       0       0       0       1       20 A       JCT #10W         1       49       JCT #18E       20 A       1       0       0       0       1       20 A       JCT #10W         1       51       JCT #5W       20 A       1       0       0       0       1       20 A       JCT #12E         1       53       JCT #5W       20 A       1       0       0       0       1       20 A       VENDING RM         1       57       VENDING RM       20 A       1       0       0       0       1       20 A       VENDING RM         1		-				100	100	180	190						40	<u>'</u> 1
1       43       JCT #144       20 A       1       180       0       0       0       1       20 A       JCT #8W         1       45       JCT #9W       20 A       1       0       0       0       0       1       20 A       JCT #10W         1       47       JCT #9E       20 A       1       0       0       0       0       1       20 A       JCT #10W         1       49       JCT #118 12E       20 A       1       0       0       0       1       20 A       JCT #12E         1       51       JCT #5W       20 A       1       0       0       0       1       20 A       JCT #12W         1       53       JCT #5W       20 A       1       0       0       0       1       20 A       JCT #5W         1       55       UFILITY ELEC STAIR RECEP       20 A       1       0       0       1       1       20 A       VENDING RM         1       57       VENDING RM       20 A       1       0       0       1       20 A       VENDING RM         1       61       VENDING RM       20 A       1       0       0       1	1							100	100	190	100				42	<u>'</u> 1
1       45       JCT#9W       20 A       1       0       0       1       20 A       JCT#8E         1       47       JCT#9E       20 A       1       0       0       0       1       20 A       JCT#10W         1       49       JCT#11 & 12E       20 A       1       0       0       0       1       20 A       JCT#12E         1       51       JCT#5W       20 A       1       0       0       0       1       20 A       JCT#2W         1       53       JCT#5W       20 A       1       0       0       0       1       20 A       JCT#5W         1       55       UTILITY ELEC STAIR RECEP       20 A       1       0       0       0       1       20 A       VENDING RM         1       57       VENDING RM       20 A       1       0       0       0       1       20 A       VENDING RM         1       61       VENDING RM       20 A       1       0       0       1       20 A       VENDING RM         1       63       VENDING RM       20 A       1       0       0       1       20 A       VENDING RM         1 <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>400</td> <td></td> <td></td> <td></td> <td>100</td> <td>100</td> <td></td> <td></td> <td></td> <td></td> <td></td>	1					400				100	100					
1       47       JCT #9E       20 A       1       0       0       1       20 A       JCT #10W         1       49       JCT #11 & 12E       20 A       1       0       0       0       1       20 A       JCT #12E         1       51       JCT #5W       20 A       1       0       0       0       1       20 A       JCT #12W         1       53       JCT #5W       20 A       1       0       0       0       1       20 A       JCT #5W         1       55       UTILITY ELEC STAIR RECEP       20 A       1       0       0       0       1       20 A       VENDING RM         1       57       VENDING RM       20 A       1       0       0       0       1       20 A       VENDING RM         1       61       VENDING RM       20 A       1       0       0       1       20 A       VENDING RM         1       63       VENDING RM       20 A       1       0       0       1       20 A       VENDING RM         1       63       VENDING RM       20 A       1       0       0       1       20 A       VENDING RM         1 <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>180</td> <td>U</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>44</td> <td>1</td>	1					180	U								44	1
1       49       JCT #11 & 12E       20 A       1       0       0       0       0       1       20 A       JCT #12E         1       51       JCT #5W       20 A       1       0       0       0       1       20 A       JCT #12W         1       53       JCT #5W       20 A       1       0       0       0       1       20 A       JCT#5W         1       55       UTILITY ELEC STAIR RECEP       20 A       1       0       0       1       20 A       VENDING RM         1       57       VENDING RM       20 A       1       0       0       0       1       20 A       VENDING RM         1       61       VENDING RM       20 A       1       0       0       1       20 A       VENDING RM         1       63       VENDING RM       20 A       1       0       0       1       20 A       VENDING RM         1       65       TELE RM RECEP       20 A       1       0       0       1       20 A       VENDING RM         1       67       JCT#6W       20 A       1       0       0       1       20 A       VENDING RM         1<	1	-						0	0	_	_				46	1
1       51       JCT #5W       20 A       1       0       0       1       20 A       JCT #12W         1       53       JCT #5W       20 A       1       0       0       0       1       20 A       JCT#5W         1       55       UTILITY ELEC STAIR RECEP       20 A       1       0       0       1       20 A       VENDING RM         1       57       VENDING RM       20 A       1       0       0       0       1       20 A       VENDING RM         1       61       VENDING RM       20 A       1       0       0       1       20 A       VENDING RM         1       63       VENDING RM       20 A       1       0       0       1       20 A       VENDING RM         1       63       VENDING RM       20 A       1       0       0       1       20 A       VENDING RM         1       65       TELE RM RECEP       20 A       1       0       0       1       20 A       VENDING RM         1       67       JCT #6W       20 A       1       0       0       1       20 A       LOUNGE AREA LIGHTS         1       69       JECT #1 E	1									0	0				48	1
1       53       JCT#5W       20 A       1       0       0       1       20 A       JCT#5W         1       55       UTILITY ELEC STAIR RECEP       20 A       1       0       0       1       20 A       VENDING RM         1       57       VENDING RM       20 A       1       0       0       1       20 A       VENDING RM         1       61       VENDING RM       20 A       1       0       0       1       20 A       VENDING RM         1       63       VENDING RM       20 A       1       0       0       1       20 A       VENDING RM         1       65       TELE RM RECEP       20 A       1       0       0       1       20 A       VENDING RM         1       67       JCT#6W       20 A       1       0       0       1       20 A       VENDING RM         1       67       JCT#6W       20 A       1       0       0       1       20 A       VENDING RM         1       69       JECT#1E & W       20 A       1       0       0       1       20 A       JCT#6E         1       71       JCT#7E       20 A       1       <	1	49		20 A	1	0	0					1	20 A		50	1
1       55       UTILITY ELEC STAIR RECEP       20 A       1       0       0       1       20 A       VENDING RM         1       57       VENDING RM       20 A       1       0       0       0       1       20 A       VENDING RM         1       61       VENDING RM       20 A       1       0       0       1       20 A       VENDING RM         1       63       VENDING RM       20 A       1       0       0       1       20 A       VENDING RM         1       65       TELE RM RECEP       20 A       1       0       0       1       20 A       VENDING RM         1       67       JCT#6W       20 A       1       0       0       1       20 A       VENDING RM         1       65       TELE RM RECEP       20 A       1       0       0       1       20 A       VENDING RM         1       67       JCT#6W       20 A       1       0       0       1       20 A       VENDING RM         1       67       JCT#6W       20 A       1       0       0       1       20 A       VENDING RM         1       67       JCT#6W       20 A <td>1</td> <td>51</td> <td>JCT #5W</td> <td>20 A</td> <td>1</td> <td></td> <td></td> <td>0</td> <td>0</td> <td></td> <td></td> <td>1</td> <td>20 A</td> <td>JCT #12W</td> <td>52</td> <td>1</td>	1	51	JCT #5W	20 A	1			0	0			1	20 A	JCT #12W	52	1
1       57       VENDING RM       20 A       1       0       0       1       20 A       VENDING RM         1       59       QUAD TELE RM       20 A       1       0       0       1       20 A       VENDING RM         1       61       VENDING RM       20 A       1       0       0       1       20 A       VENDING RM         1       63       VENDING RM       20 A       1       0       0       1       20 A       VENDING RM         1       65       TELE RM RECEP       20 A       1       0       0       1       20 A       VENDING RM         1       67       JCT#6W       20 A       1       0       0       1       20 A       VENDING RM         1       67       JCT#6W       20 A       1       0       0       1       20 A       VENDING RM         1       67       JCT#6W       20 A       1       0       0       1       20 A       VENDING RM         1       69       JECT#1E & W       20 A       1       0       0       1       20 A       JCT#6E         1       73       BLANK        1 <td>1</td> <td>53</td> <td>JCT #5W</td> <td>20 A</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td>0</td> <td>1</td> <td>20 A</td> <td>JCT#5W</td> <td>54</td> <td>1</td>	1	53	JCT #5W	20 A	1					0	0	1	20 A	JCT#5W	54	1
1       59       QUAD TELE RM       20 A       1       0       0       1       20 A       VENDING RM         1       61       VENDING RM       20 A       1       0       0       1       20 A       VENDING RM         1       63       VENDING RM       20 A       1       0       0       1       20 A       WALL WASHER LIGHTS         1       65       TELE RM RECEP       20 A       1       0       0       1       20 A       VENDING RM         1       67       JCT #6W       20 A       1       0       0       1       20 A       VENDING RM         1       65       TELE RM RECEP       20 A       1       0       0       1       20 A       VENDING RM         1       67       JCT #6W       20 A       1       0       0       1       20 A       LOUNGE AREA LIGHTS         1       69       JECT #1 E & W       20 A       1       0       0       1       20 A       JCT #7E         1       73       BLANK        1         1        BLANK         1       75       BLANK        1	1	55	UTILITY ELEC STAIR RECEP	20 A	1	0	0					1	20 A	VENDING RM	56	1
1       61       VENDING RM       20 A       1       0       0       1       20 A       VENDING RM         1       63       VENDING RM       20 A       1       0       0       1       20 A       WALL WASHER LIGHTS         1       65       TELE RM RECEP       20 A       1       0       0       1       20 A       VENDING RM         1       67       JCT #6W       20 A       1       0       0       1       20 A       LOUNGE AREA LIGHTS         1       69       JECT #1 E & W       20 A       1       0       0       1       20 A       JCT #6E         1       71       JCT #7E       20 A       1         0       0       1       20 A       JCT #7E         1       73       BLANK        1         1        BLANK         1       75       BLANK        1         1        BLANK         1       79       BLANK        1         1        BLANK         1       81       BLANK        1 <td>1</td> <td>57</td> <td>VENDING RM</td> <td>20 A</td> <td>1</td> <td></td> <td></td> <td>0</td> <td>0</td> <td></td> <td></td> <td>1</td> <td>20 A</td> <td>VENDING RM</td> <td>58</td> <td>1</td>	1	57	VENDING RM	20 A	1			0	0			1	20 A	VENDING RM	58	1
1 63 VENDING RM 20 A 1 0 0 0 1 20 A VENDING RM 1 65 TELE RM RECEP 20 A 1 0 0 0 1 20 A VENDING RM 1 67 JCT #6W 20 A 1 0 0 0 1 20 A LOUNGE AREA LIGHTS 1 69 JECT #1 E & W 20 A 1 0 0 0 1 20 A JCT #6E 1 71 JCT #7E 20 A 1 0 0 0 1 20 A JCT #7E 1 73 BLANK 1 1 1 BLANK 1 75 BLANK 1 1 1 BLANK 1 77 BLANK 1 1 BLANK 1 79 BLANK 1 1 BLANK 1 81 BLANK 1 1 BLANK	1	59	QUAD TELE RM	20 A	1					0	0	1	20 A	VENDING RM	60	1
1       65       TELE RM RECEP       20 A       1       0       0       1       20 A       VENDING RM         1       67       JCT #6W       20 A       1       0       0       1       20 A       LOUNGE AREA LIGHTS         1       69       JECT #1 E & W       20 A       1       0       0       1       20 A       JCT #6E         1       71       JCT #7E       20 A       1       0       0       1       20 A       JCT #7E         1       73       BLANK        1         1        BLANK         1       75       BLANK        1          1        BLANK         1       79       BLANK        1          1        BLANK         1       81       BLANK        1         1        BLANK	1	61	VENDING RM	20 A	1	0	0					1	20 A	VENDING RM	62	1
1       65       TELE RM RECEP       20 A       1       0       0       1       20 A       VENDING RM         1       67       JCT #6W       20 A       1       0       0       1       20 A       LOUNGE AREA LIGHTS         1       69       JECT #1 E & W       20 A       1       0       0       1       20 A       JCT #6E         1       71       JCT #7E       20 A       1       0       0       1       20 A       JCT #7E         1       73       BLANK        1         1        BLANK         1       75       BLANK        1          1        BLANK         1       79       BLANK        1          1        BLANK         1       81       BLANK        1         1        BLANK	1	63	VENDING RM	20 A	1			0	0			1	20 A	WALL WASHER LIGHTS	64	1
1       67       JCT#6W       20 A       1       0       0       1       20 A       LOUNGE AREA LIGHTS         1       69       JECT#1 E & W       20 A       1       0       0       1       20 A       JCT#6E         1       71       JCT#7E       20 A       1         0       0       1       20 A       JCT#7E         1       73       BLANK        1         1        BLANK         1       75       BLANK        1         1        BLANK         1       79       BLANK        1         1        BLANK         1       81       BLANK        1         1        BLANK	1	65	TELE RM RECEP	20 A	1					0	0	1	20 A	VENDING RM	66	1
1       69       JECT #1 E & W       20 A       1       0       0       1       20 A       JCT #6E         1       71       JCT #7E       20 A       1       0       0       1       20 A       JCT #7E         1       73       BLANK        1         1        BLANK         1       75       BLANK        1         1        BLANK         1       79       BLANK        1         1        BLANK         1       81       BLANK        1         1        BLANK	1					0	0			-					68	1
1 71 JCT #7E 20 A 1	•				-			0	0						70	1
1 73 BLANK 1 BLANK 1 75 BLANK 1 1 BLANK 1 77 BLANK 1 1 BLANK 1 79 BLANK 1 1 BLANK 1 81 BLANK 1 1 BLANK	-									0	0				72	<u>.</u> 1
1 75 BLANK 1 1 BLANK 1 77 BLANK 1 1 BLANK 1 79 BLANK 1 1 BLANK 1 81 BLANK 1 1 BLANK	•	-													74	<u>'</u> 1
1     77     BLANK      1       1      BLANK       1     79     BLANK      1       1      BLANK       1     81     BLANK      1       1      BLANK	1	-													76	1
1 79 BLANK 1 1 BLANK 1 81 BLANK 1 1 BLANK	1														78	1
1 81 BLANK 1 1 BLANK	1															
	1	-			1										80	1
1   83   BLANK     1     1     RLANK	•				+										82	1
	1	83	BLANK		1							1		BLANK	84	1
Total Load:         2160 VA         1800 VA         1620 VA           Total Amps:         18 A         15 A         14 A					L											

DESCRIPTION

XR EXISTING (2) 4' FLOURESCENT BULB LAY-IN FIXTURE TO BE RELAMPED AND RELOCATED PHILIPS

XA EXISTING (2) 4' FLOURESCENT BULB LAY-IN FIXTURE TO REMAIN AND BE RELAMPED

A 2X2 LED FLAT PANEL

E AC ONLY STANDARD EXIT

XD EXISTING LIGHT FIXTURE TO BE DEMOLISHED

Notes:	ΧIS	Location: ELEC Supply From: Mounting: Surfac Enclosure: Type	H532				Volts: Phases: Wires:		Wye			Mains Mains R	Rating: 10 kAIC Type: MCB Rating: 125 A Rating: 125 A				Y NOT BE USED, CO IOR WRITTEN CONS BROUP, INC.
EXISTI PROVI Note	NG S DE P	SQUARE D NQ PANELBOARD. PRINTED UPDATED PANEL SC  Circuit Description	HEDULE	EXISTI :. CIRCI	JIT DESC	RIPTIONS	S WITH (G	BE UTILI: FCI) TO E	BE PROVI	ISE CIRC DED WITI	H GFCI	MBERS CIRCUIT		QUIRE	D. Note		S CC I HOOV
2		RCPT - H524 N UP MICRO	Trip 20 A	1	1000	<b>A</b>		<b>3</b>			Pole	irip	Circuit Description	2		5	TH FL
2	3	RCPT - H524 N LWR MICRO	20 A	1			1000	0			3	125 A	MAIN	4	1	<b>1</b>	,
2	5	RCPT - H524 S UP MICRO	20 A	1					1000	0				6		l RE	ENOVA
3		RCPT - H524 S LWR MICRO	20 A	1	1000									8			
3		RCPT - H524 N FRIDGE	20 A	1			500				3		MAIN	10	1		
3		RCPT - H524 S FRIDGE	20 A	1	200	4000			500		1	20.4	CONF.LIF4C	12		DES MOIN	ES
3		(GFCI)RCPT - H545/H544 OFFICE H540 & H542 RECP	20 A 20 A	1	360	1080	1260	1080			1	20 A 20 A	CONF H546 OFF H548 & H550	14 16	3		REVISION SCHE
1		ICN RECEP / TELCO	20 A	1			1200	1000	0	1440	1	20 A	OFF H548 & H550 OFF H552 & H554 RECP	18	3	DATE	DESCRIPT
3		OFF H558 RECEP	20 A	1	720	1440				1440	1	20 A	CONF H560 RECEP	20	3	BATTE	<u> </u>
3		CONF H562 RECP	20 A	1	. 20	1110	1440	179			1	20 A	KIT H545 & RR H544 LGHT	22	3		
1		ICN RECEP / TELCO	20 A	1					0		1		BLANK	24	1		
1	25	ICN RECEP / TELCO	20 A	1	0						1		BLANK	26	1		
1	27	ICN RECEP / TELCO	20 A	1			0				1		BLANK	28	1		
1	29	RECEPTACLE	20 A	1					0		1		BLANK	30	1		
2	31	JCT #11W	20 A	1	180						1		BLANK	32	1		
2	33	JCT #15W	20 A	1			180	180			1	20 A	JCT #21W	34	2		
2	35	JCT #15E	20 A	1					180	180	1	20 A	JCT #16W	36	2	PROJECT NO	
2		JCT #8W	20 A	1	180	180	400	400			1	20 A	JCT #12W	38	2	FILE NAME	31954 E
2		JCT #10W	20 A	1			180	180	180	100	1	20 A	JCT #4W JCT #2E	40	2	DRAWN BY	AAG
2	41	JCT #16 JCT #12E	20 A 20 A	1	180	180			180	180	1	20 A 20 A	JCT #2E JCT #16E	42 44	2	DESIGNED BY	
2		JCT #22W	20 A	1	100	100	180	360			1	20 A	JCT #2E & 4E	46	2	ORIGINAL ISS	•
1		LTG - CONF H560&562	20 A	1			100	000	744	0	1	20 A	JCT #9	48	1	_	
1		JCT #9	20 A	1	0	0					1	20 A	JCT #10	50	1	CLIENT PROJ	IECT NO. 942600-
1	51	JCT #10	20 A	1			0	0			1	20 A	JCT #11	52	1		
1	53	JCT #11	20 A	1					0	0	1	20 A	JCT #12	54	1	TITLE	
1	55	WEST WALL ROW 9	20 A	1	0	0					1	20 A	JCT #9	56	1		
1	57	WEST WALL ROW 9	20 A	1			0	0			1	20 A	UTILTY RM RECEP	58	1		
1		CONF RM RECEPS	20 A	1					0	0	1	20 A	WALL WASHER LIGHTS	60	1		
1		QUAD TELE RM	20 A	1	0	0					1	20 A	UTILITY RM RECEPTACLE	62	1		LECTR
1		ROW 6 COPIER	20 A	1			0	0			1	20 A	ELECTRIC RM RECEPTACLE		1		LEGIR
1		COPIER BY STAIRS	20 A	1	^				0	0	1	20 A	ATRIUM FIRE DAMPER	66	1		SYMBO
1		RECEPTACLE RECETPACLE	20 A	1	0	0	0	0			1	20 A	JCT #1 EAST OF STAIR RECEPTACLE	68 70	1	1	) I IVIDU
1		SPARE	20 A 20 A	1			U	U	0	0	1	20 A 20 A	COFFEE POT	70	1	SOL	EDIII F
1		BLANK		1							1		BLANK	74	<u> </u>	2CH	<b>EDULE</b>
1		BLANK		1							1		BLANK	76	1		DETAI
1		BLANK		1							1		BLANK	78	1		DETAI
1		BLANK		1							1		BLANK	80	1		
1	81	BLANK		1							1		BLANK	82	1		
1	83	BLANK		1							1		BLANK	84	1		
			Total	Load:	650	0 VA	6719	9 VA	440	4 VA							

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DAS CC IDALS **HOOVER 5TH FLOOR** RENOVATION

DES M	OINES	IOWA
	REVISION SCHEDULE	
DATE	DESCRIPTION	BY
PROJECT	г NO. 24-31954	

PROJECT NO. 24-31954 31954 Elec R24.rvt DRAWN BY DESIGNED BY AAG RDS REVIEWED BY ORIGINAL ISSUE DATE 01/21/2025

**ELECTRICAL** SYMBOLS, SCHEDULES, AND **DETAILS** 

**E4-10** 

1/21/2025 3:12:20 PM

# SHEET NOTES

- PROVIDE ALL ROUGH-IN FOR AND PATHWAYS FOR ACCESS CONTROL. CABLING, HARDWARE AND PROGRAMMING SHALL BE BY OWNER. COORDINATE ALL LOCATIONS WITH PRIOR TO ROUGH-IN.
- CONDUITS FOR DATA ROUGH-INS SHALL BE FLUSH MOUNTED IN ALL SPACES UNLESS SPECIFCALLY NOTED TO BE SURFACE MOUNTED.
- 3. COORDINATE WORK WITH ALL APPLICABLE TRADES. PROVIDE QUANTITES AS REQUIRED BASED ON ROUGH-IN
- LOCATION COUNTS. MAINTAIN FIRE RATING OF ALL WALLS AND FLOORS.
- . COORDINATE DEVICE LOCATIONS WITH FURNITURE

PROVIDE FIRE PROOFING FOR ALL WALL AND FLOOR

PENETRATIONS PER CODE.

SUPPLIER AND OWNER PRIOR TO ROUGH-IN FOR FINAL LOCATIONS. IF CHANGE IN DIMENSIONS SHOWN IN PLANS IS REQUIRED, COORIDNATE WITH OWNER PRIOR TO ROUGH-IN.

### TECH KEYNOTE LEGEND

APPROXIMATE LOCATION OF EXISTING ACCESS CONTROL

- HEAD END. SHOWN FOR REFERENCE AND COORDINATION. APPOXIMATE LOCATION OF OWNER PROVIDED DOGHOUSE. CONTRACTOR TO CUT OPENING IN RAISED FLOOR FOR ACCESS TO SUB FLOOR. LOCATION TO SUPPORT (1) OWNER FURNISHED AND INSTALLED DATA CABLE.
- APPOXIMATE LOCATION OF OWNER PROVIDED DOGHOUSE. CONTRACTOR TO CUT OPENING IN RAISED FLOOR FOR ACCESS TO SUB FLOOR. LOCATION TO SUPPORT (3) OWNER FURNISHED AND INSTALLED DATA CABLES. APPOXIMATE LOCATION OF OWNER PROVIDED DOGHOUSE.
- CONTRACTOR TO CUT OPENING IN RAISED FLOOR FOR ACCESS TO SUB FLOOR. LOCATION TO SUPPORT (6) OWNER FURNISHED AND INSTALLED DATA CABLES. APPOXIMATE LOCATION OF OWNER PROVIDED DOGHOUSE.
- CONTRACTOR TO CUT OPENING IN RAISED FLOOR FOR ACCESS TO SUB FLOOR. LOCATION TO SUPPORT (7) OWNER FURNISHED AND INSTALLED DATA CABLES. 8 APPOXIMATE LOCATION OF OWNER PROVIDED DOGHOUSE. CONTRACTOR TO CUT OPENING IN RAISED FLOOR FOR ACCESS TO SUB FLOOR. LOCATION TO SUPPORT (8) OWNER FURNISHED AND INSTALLED DATA CABLES.
  - APPOXIMATE LOCATION OF OWNER PROVIDED DOGHOUSE. CONTRACTOR TO CUT OPENING IN RAISED FLOOR FOR ACCESS TO SUB FLOOR. LOCATION TO SUPPORT (9) OWNER FURNISHED AND INSTALLED DATA CABLES.
- APPOXIMATE LOCATION OF OWNER PROVIDED DOGHOUSE. CONTRACTOR TO CUT OPENING IN RAISED FLOOR FOR ACCESS TO SUB FLOOR. LOCATION TO SUPPORT (4) OWNER FURNISHED AND INSTALLED DATA CABLES. APPOXIMATE LOCATION OF OWNER PROVIDED DOGHOUSE. CONTRACTOR TO CUT OPENING IN RAISED FLOOR FOR ACCESS TO SUB FLOOR. LOCATION TO SUPPORT (10)

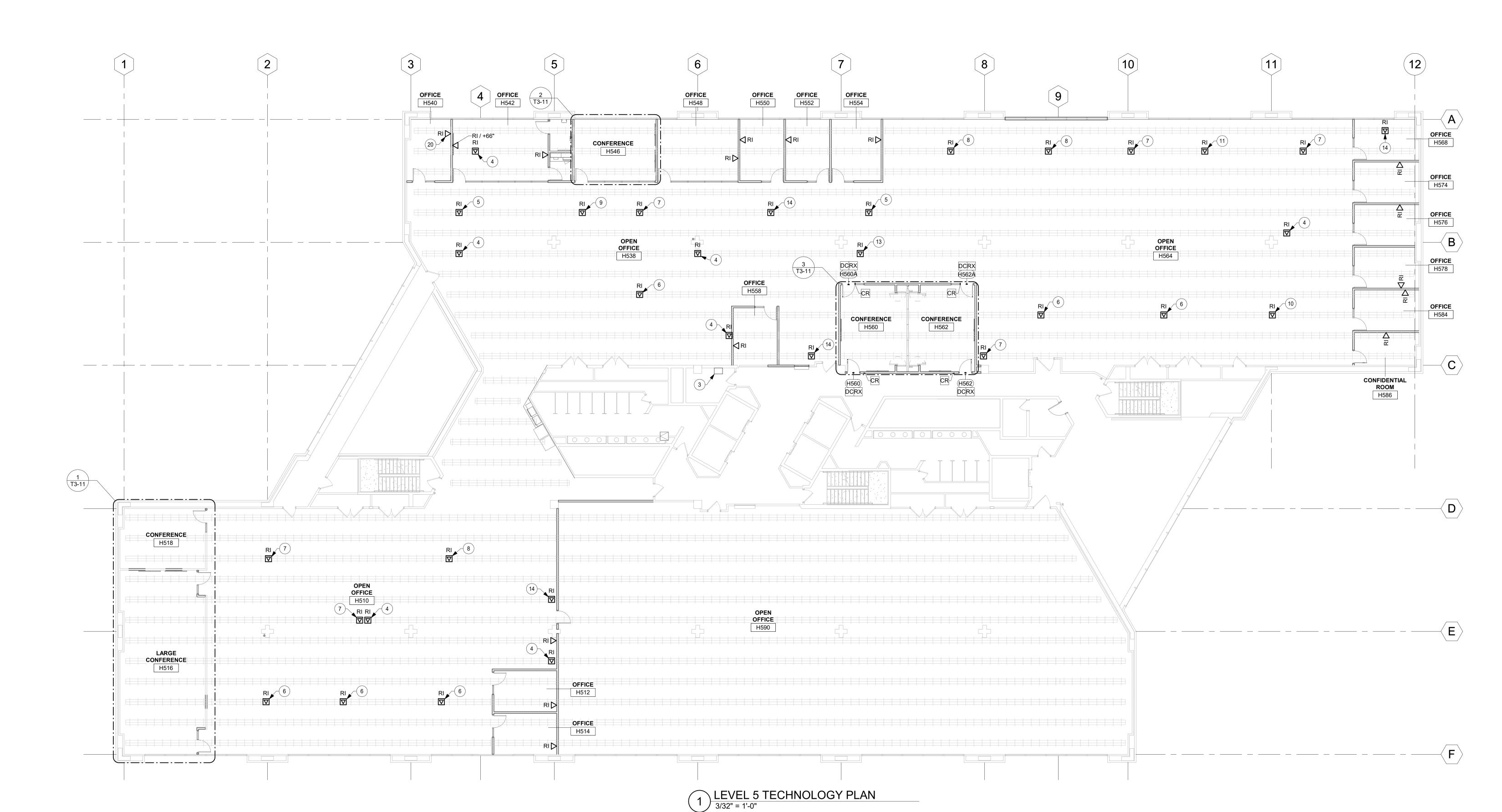
OWNER FURNISHED AND INSTALLED DATA CABLES.

APPOXIMATE LOCATION OF OWNER PROVIDED DOGHOUSE. CONTRACTOR TO CUT OPENING IN RAISED FLOOR FOR ACCESS TO SUB FLOOR, LOCATION TO SUPPORT (1) OWNER FURNISHED AND INSTALLED DATA CABLE AND FAX CABLE. 4 APPOXIMATE LOCATION OF OWNER PROVIDED DOGHOUSE. CONTRACTOR TO CUT OPENING IN RAISED FLOOR FOR

ACCESS TO SUB FLOOR. LOCATION TO SUPPORT (2) OWNER

FURNISHED AND INSTALLED DATA CABLES PROVIDE SINGLE-GANG J-BOX WITH (1) 3/4" CONDUIT TO ACCESSIBLE CEILING OUTLET FOR OWNER PROVIDED DATA

CABLING. TYPICAL UNLESS NOTED OTHERWISE.



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PROJECT

**DES MOINES** 

DACS CC IDALS **HOOVER 5TH FLOOR** RENOVATION

		REVISION SCHEDULE	
DATE		DESCRIPTION	BY
PROJEC1	ΓNO.	24-31954	
FILE NAM	1E	31954 Tech R24	
DRAWN E	3Y	BLF	
DESIGNE	D BY	BLF	
REVIEWE	D BY	AAG	

TITLE

CLIENT PROJECT NO.

ORIGINAL ISSUE DATE 01/21/25

LEVEL 5 **TECHNOLOGY PLAN** 

**T2-11** 

**SHEET NOTES** TECH KEYNOTE LEGEND 1 SOUND MASKING EMITTER (AV-SME-01) TO BE INSTALLED SOUND MASKING SYSTEM SHALL SERVE AS A BID WITH-IN METAL CEILING GRID. PROVIDE ALL NECESSARY ACCESSORIES FOR INSTALLATION WITH-IN METAL CEILING ALTERNATE #1. GRID. (TYPICAL) SOUND MASKING CONTRACTOR SHALL PROVIDE AND 22 APPROXIMATE LOCATION OF EXISTING OWNER INSTALL ALL SOUND MASKING DEVICES, ACCESSORIES COMMUNICATION CLOSET RACK FOR MOUNTING SOUND MASKING CONTROLLER AND EQUIPMENT. PROVIDE QUANTITIES AS REQUIRED BASED ON DEVICE COUNTS. REFER TO FLOOR PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. SOUND MASKING LAYOUT IS SHOWN FOR GENERAL DESIGN INTENT. CONTRACTOR SHALL PROVIDE MANUFACTURER RECOMMENDED LAYOUTS BASED ON SPECIFIC MODELS SELECTED. MAINTAIN FIRE RATING OF ALL WALLS AND FLOORS. PROVIDE FIRE PROOFING FOR ALL WALL AND FLOOR PENETRATIONS PER CODE. OFFICE H548 OFFICE H550 OFFICE H542 CONFERENCE H546 OFFICE H552 OFFICE H554 **KITCHENETT** ZONE 3-A THIS DOCUMENT IS THE PROPERTY OF I & S GROUP, INC. AND MAY NOT BE USED, COPIED OR DUPLICATED WITHOUT PRIOR WRITTEN CONSENT.
© 2024 I & S GROUP, INC. OFFICE DACS CC IDALS **HOOVER 5TH FLOOR** RENOVATION COLLABORATION H524 DES MOINES REVISION SCHEDULE DESCRIPTION CONFERENCE H518 PROJECT NO. DRAWN BY **DESIGNED BY** REVIEWED BY ORIGINAL ISSUE DATE 01/21/25 CLIENT PROJECT NO. TITLE LARGE CONFERENCE H516 **LEVEL 5 SOUND MASKING FLOOR PLAN** OFFICE H514 2 LEVEL 5 SOUND MASKING PLAN
3/32" = 1'-0" **T2-21** 1/21/2025 4:05:29 PM

#### SHEET NOTES

- PROVIDE ALL ROUGH-IN FOR AND PATHWAYS FOR ACCESS CONTROL. CABLING, HARDWARE AND PROGRAMMING SHALL BE BY OWNER. COORDINATE ALL LOCATIONS WITH PRIOR TO ROUGH-IN.
- CONDUITS FOR DATA ROUGH-INS SHALL BE FLUSH MOUNTED IN ALL SPACES UNLESS SPECIFCALLY NOTED
- TO BE SURFACE MOUNTED. 3. COORDINATE WORK WITH ALL APPLICABLE TRADES.
- . PROVIDE QUANTITES AS REQUIRED BASED ON ROUGH-IN LOCATION COUNTS.
- . MAINTAIN FIRE RATING OF ALL WALLS AND FLOORS. PROVIDE FIRE PROOFING FOR ALL WALL AND FLOOR PENETRATIONS PER CODE.
- COORDINATE DEVICE LOCATIONS WITH FURNITURE SUPPLIER AND OWNER PRIOR TO ROUGH-IN FOR FINAL LOCATIONS. IF CHANGE IN DIMENSIONS SHOWN IN PLANS IS REQUIRED, COORIDNATE WITH OWNER PRIOR TO ROUGH-IN.

## TECH KEYNOTE LEGEND

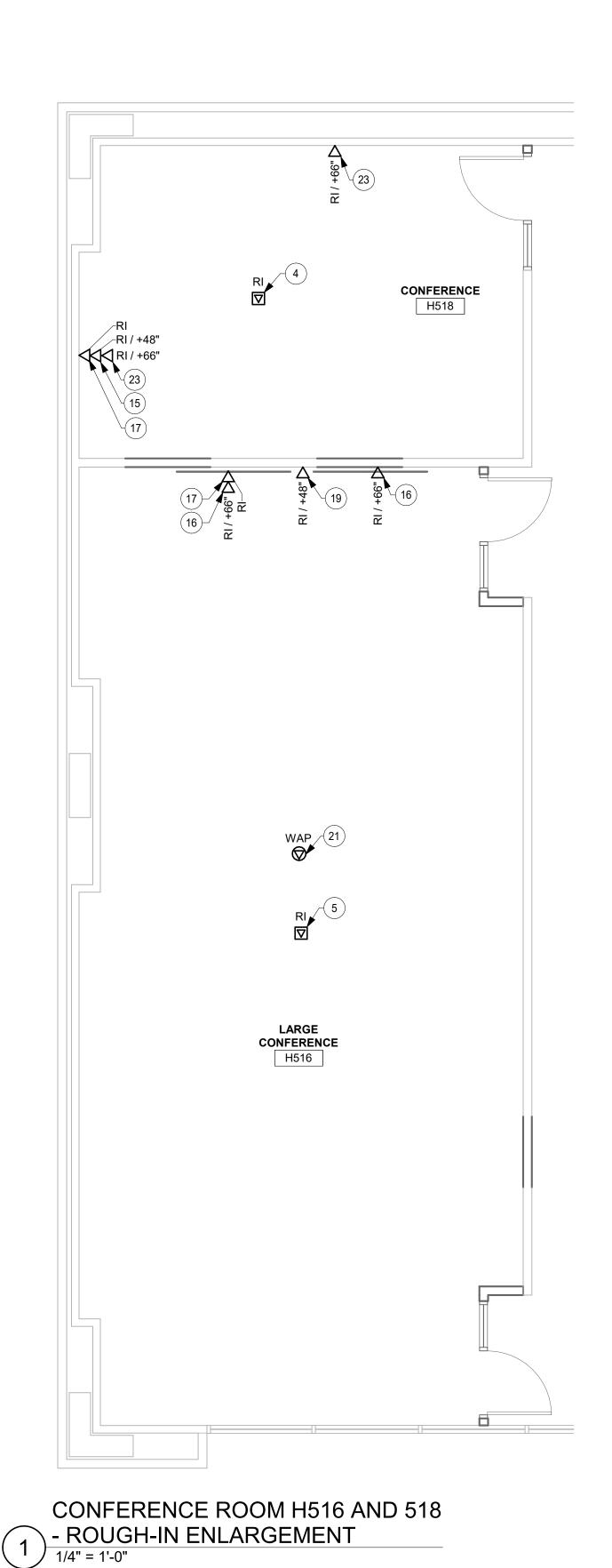
- APPOXIMATE LOCATION OF OWNER PROVIDED DOGHOUSE. CONTRACTOR TO CUT OPENING IN RAISED FLOOR FOR ACCESS TO SUB FLOOR. LOCATION TO SUPPORT (1) OWNER FURNISHED AND INSTALLED DATA CABLE.
- APPOXIMATE LOCATION OF OWNER PROVIDED DOGHOUSE. CONTRACTOR TO CUT OPENING IN RAISED FLOOR FOR
- ACCESS TO SUB FLOOR. LOCATION TO SUPPORT (3) OWNER FURNISHED AND INSTALLED DATA CABLES. 5 PROVIDE (1) SINGLE-GANG J-BOX WITH (1) 3/4" CONDUIT TO OWNER FÜRNISHED DISPLAY ABOVE FOR OWNER
- FURNISHED AND INSTALLED PTZ CAMERA. COORDINATE FINAL HEIGHT WITH OWNER PRIOR TO ROUGH-IN. 16 PROVIDE (1) SINGLE-GANG J-BOX WITH (1) 1" CONDUIT TO ACCESSIBLE CEILING ABOVE FOR OWNER FURNISHED AND
- OWNER INSTALLED DISPLAY. PROVIDE (1) SINGLE-GANG J-BOX WITH 1/2" CONDUIT TO TV J-BOX ABOVE. COORDINATE FINAL HEIGHT AND
- REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN. 19 PROVIDE (1) SINGLE-GANG J-BOX WITH (1) 3/4" CONDUIT TO ACCESSIBLE CEILING ABOVE FOR OWNER FURNISHED AND

INSTALLED PTZ CAMERA. COORDINATE FINAL HEIGHT WITH

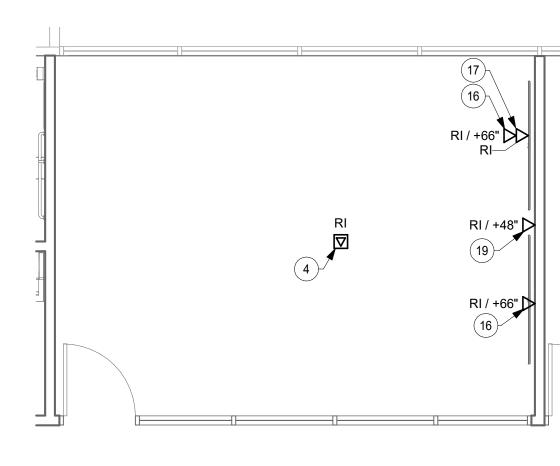
- OWNER PRIOR TO ROUGH-IN. CEILING MOUNTED WIRELESS ACCESS POINT SHOWN FOR REFERENCE ONLY. DEVICE AND CABLING BY OWNER.



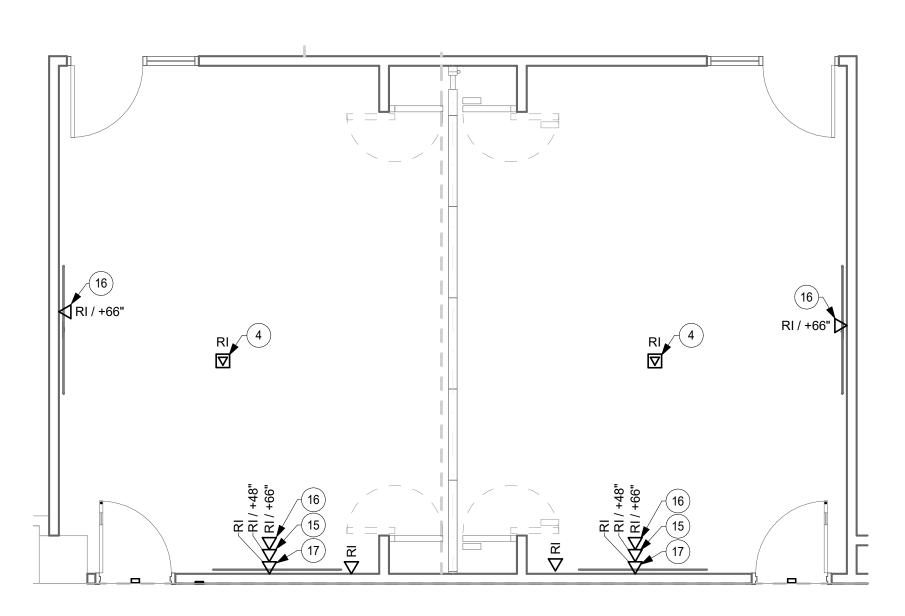




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**CONFERENCE ROOM H546** - ROUGH-IN ENLARGEMENT



CONFERENCE ROOM H560 AND H562 - ROUGH-IN ENLARGEMENT

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DACS CC IDALS **HOOVER 5TH FLOOR** RENOVATION

DES M	OINES		IOWA
		REVISION SCHEDULE	
DATE		DESCRIPTION	BY
PROJEC <sup>-</sup>	ΓNO.	24-31954	
FILE NAM	1E	31954 Tech R24	

**REVIEWED BY** ORIGINAL ISSUE DATE 01/21/25 CLIENT PROJECT NO.

TITLE

**DESIGNED BY** 

**TECHNOLOGY ENLARGEMENTS AND DETAILS** 

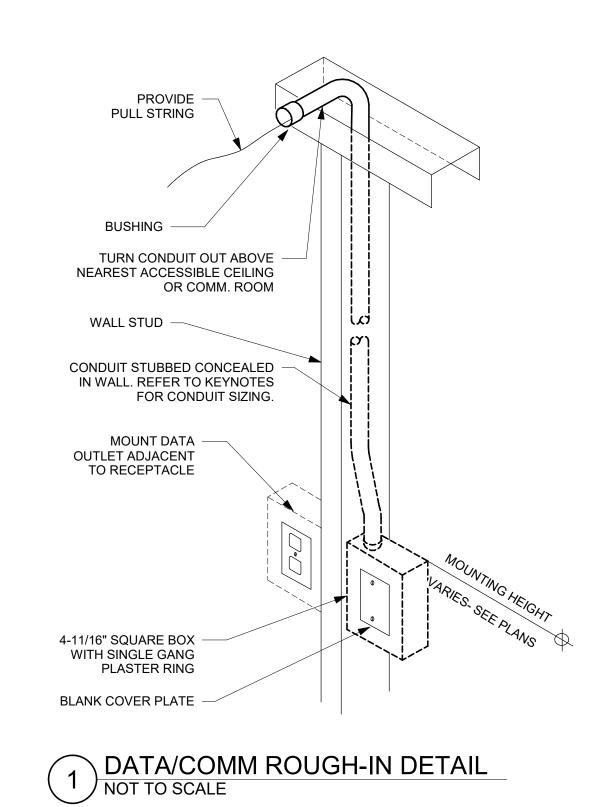
T3-11

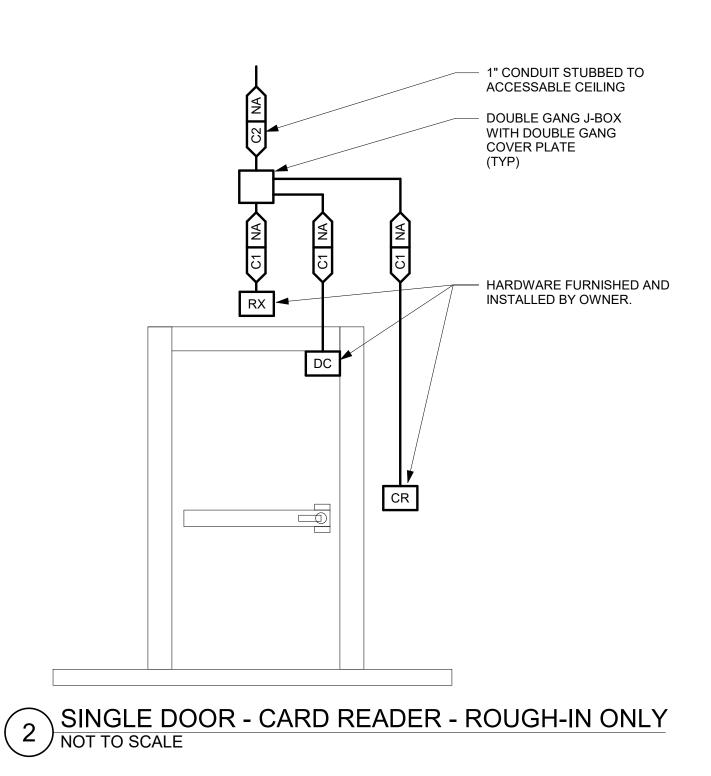
TECH	NOLOGY SYMBOLS
CR	AC-CR-01 / CARD READER ROUG
DC	AC-DC-01 / DOOR CONTACT ROU
RX	AC-RX-01 / REQUEST TO EXIT ROUGH-IN
	AV-QT-01 / SOUND MASKING HEA
SME	AV-SME-01 / SOUND MASKING EM
$\overline{}$	ROUGH-IN / WALL OUTLET
	ROUGH-IN / FLOOR BOX
	OWNER FURNISHED WIRELESS ACCESS POINT

<b>AUDIO VISUAL SCHEDULE</b>						
DEVICE	DESCRIPTION	MODEL				
AV-QT-01	SIX ZONE SOUND MASKING GENERATOR, CONTROLLER, BAND EQUALIZER AND AMPLIFIER. PROVIDE WITH RACK MOUNT KIT.	BIAMP/CAMBRIDGE QT X 600				
AV-SME-01	PASSIVE SOUND MASKING EMITTERS. MODEL INLUDES (4) E-A-W PASSIVE SOUND MASKING EMITTERS. PROVIDE WITH NECESSARY ACCESSORIES FOR MOUNTING IN ACT CEILING.	BIAMP/CAMBRIDGE E-A-W-16-4				

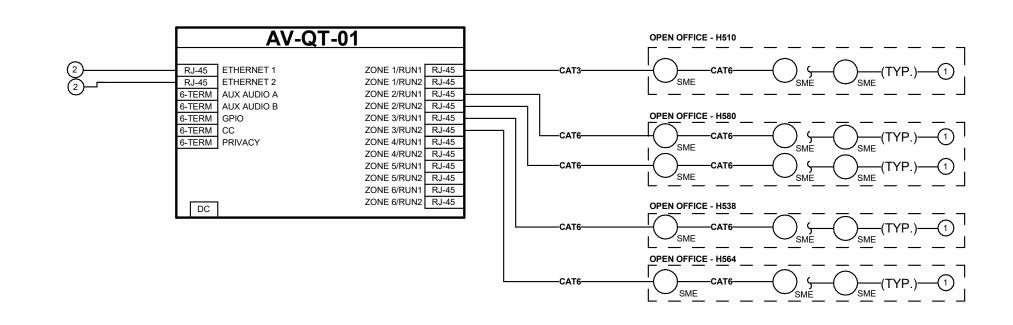
ACCESS CONTROL SCHEDULE						
DEVICE	DESCRIPTION	MODEL				
AC-CR-01	CARD READER - ROUGH-IN ONLY.	OWNER FURNISHED				
AC-DC-01	DOOR CONTACT - ROUGH-IN ONLY.	OWNER FURNISHED				
AC-RX-01	REQUEST TO EXIT - ROUGH-IN ONLY.	OWNER FURNISHED				







CONDUIT AND CABLING TYPES						
	CONDUIT TYPE TAG	##  ##	CABLING TYPE TAG			
AG	CONDUIT	TAG	CABLE(S)			
21	3/4" CONDUIT	01	4 - #22			
C2	1" CONDUIT	02	2 - #18			
C3	1-1/4" CONDUIT	03	6 - #22			
C4	1-1/2" CONDUIT	04	CAT6			
C5	2" CONDUIT		4 - #22; 2 - #18; 6 - #22; 2 - #22			
C6	3" CONDUIT	05				
C7	4" CONDUIT					
EX	EXISTING	NA	NOT APPLICABLE			



GENERAL NOTES:

1. RISER IS DIAGRAMMATIC IN NATURE AND NOT MEANT TO SHOW EVERY PIECE OF HARDWARE OR CONNECTIONS. PROVIDE ALL NECESSARY ACCESSORIES, HARDWARE, MOUNTS, CABLING, CONNECTIONS AND PROGRAMMING FOR A FULLY FUNCTIONING SYSTEM.

2. REFER TO FLOOR PLANS FOR DEVICE QUANTITIES AND LOCATIONS.

1) EMITTER ZONE SHALL NOT EXCEED 60 EMITTERS PER ZONE OR 120 EMITTERS PER OUTPUT

(2) CONNECTION TO OWNER PROVIDED NETWORK PROVIDED BY OTHERS.

3 SOUND MASKING RISER DIAGRAM
NOT TO SCALE

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DES MOINES

DATE

# DACS CC IDALS **HOOVER 5TH FLOOR** RENOVATION

REVISION SCHEDULE

DESCRIPTION

PROJECT NO.		24-31954		
FILE NAME		31954 Tech R24		
DRAWN BY		BLF		
DESIGNED BY		BLF		
REVIEWED BY		AAG		
ORIGINAL ISSUE DATE		01/21/25		
CLIENT PROJECT NO.				

TITLE

**TECHNOLOGY** DETAILS, RISERS, **AND MATERIAL SCHEDULES** 

T6-11