

# ISFA - GUARANTEED RATE STADIUM - HVAC/AHU RENOVATION PHASE XI

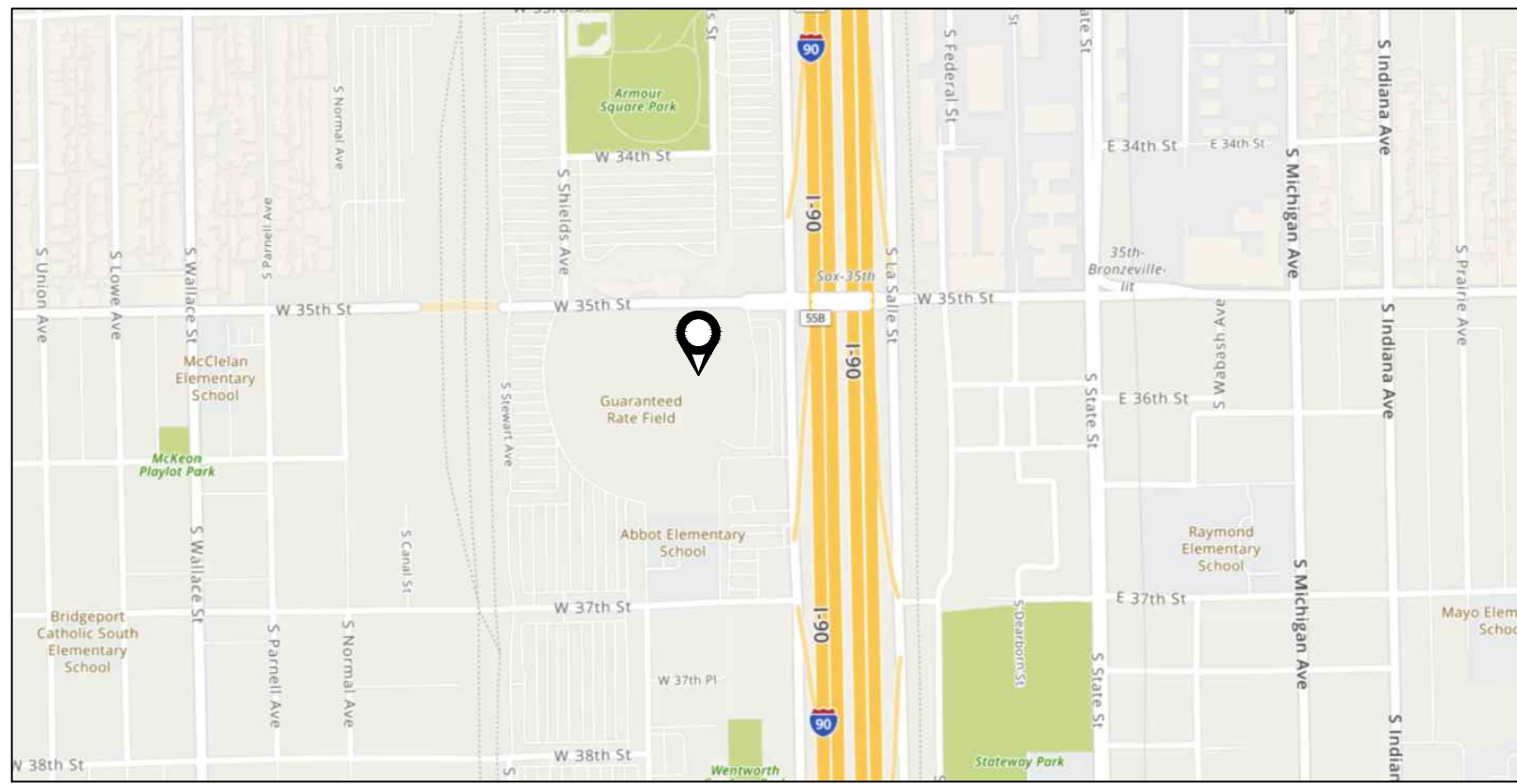
333 W 35TH STREET  
CHICAGO, ILLINOIS 60616

## ABBREVIATIONS

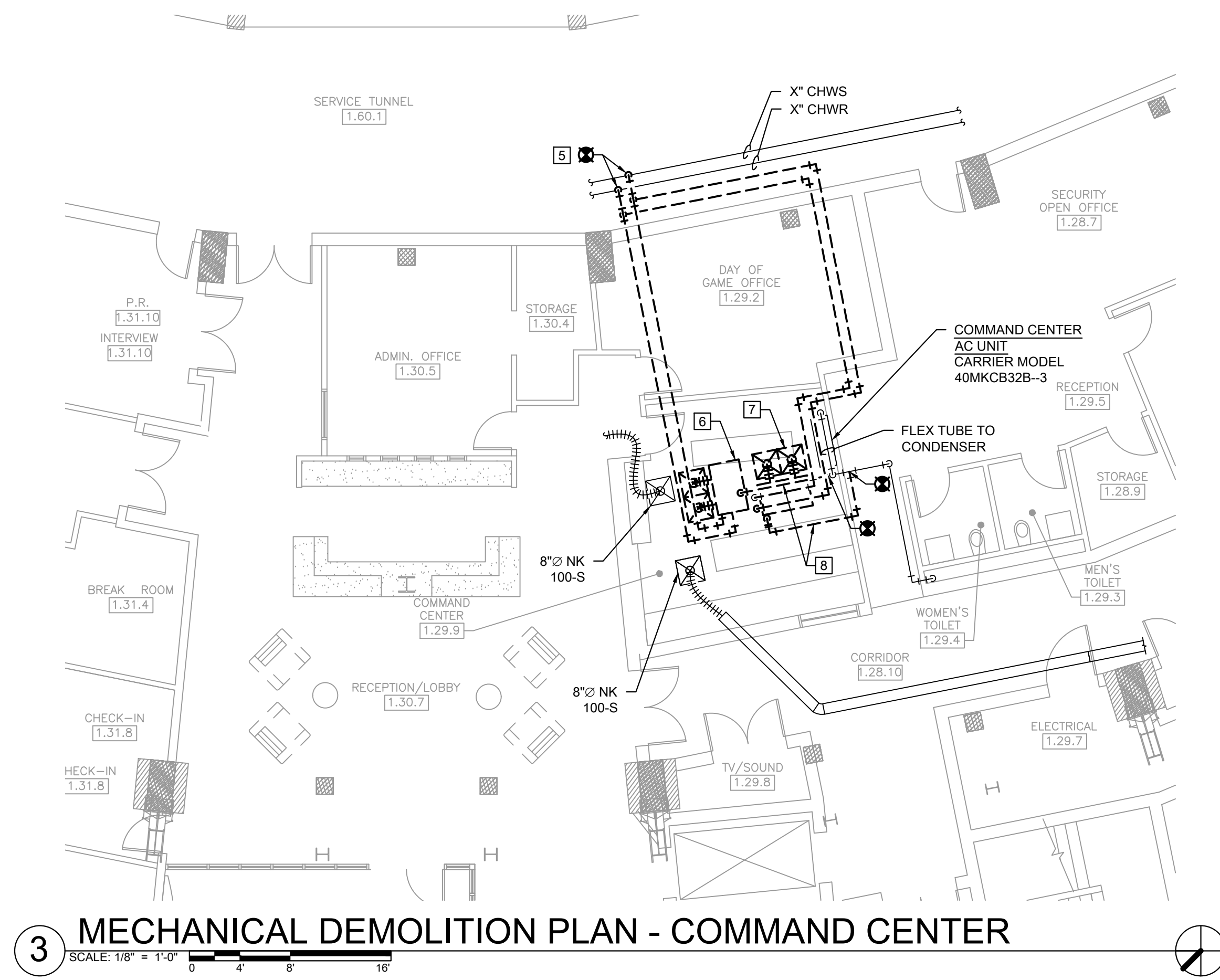
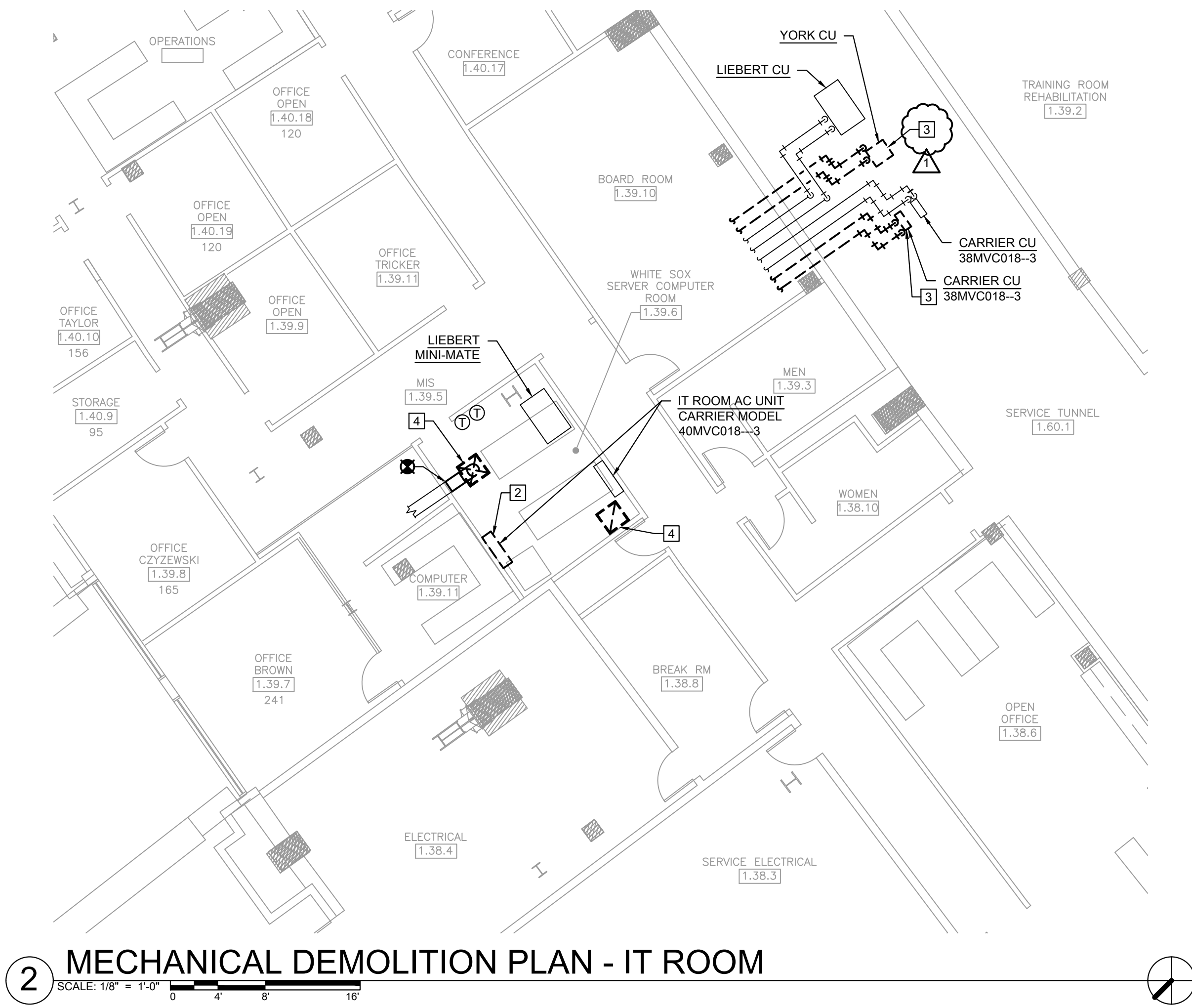
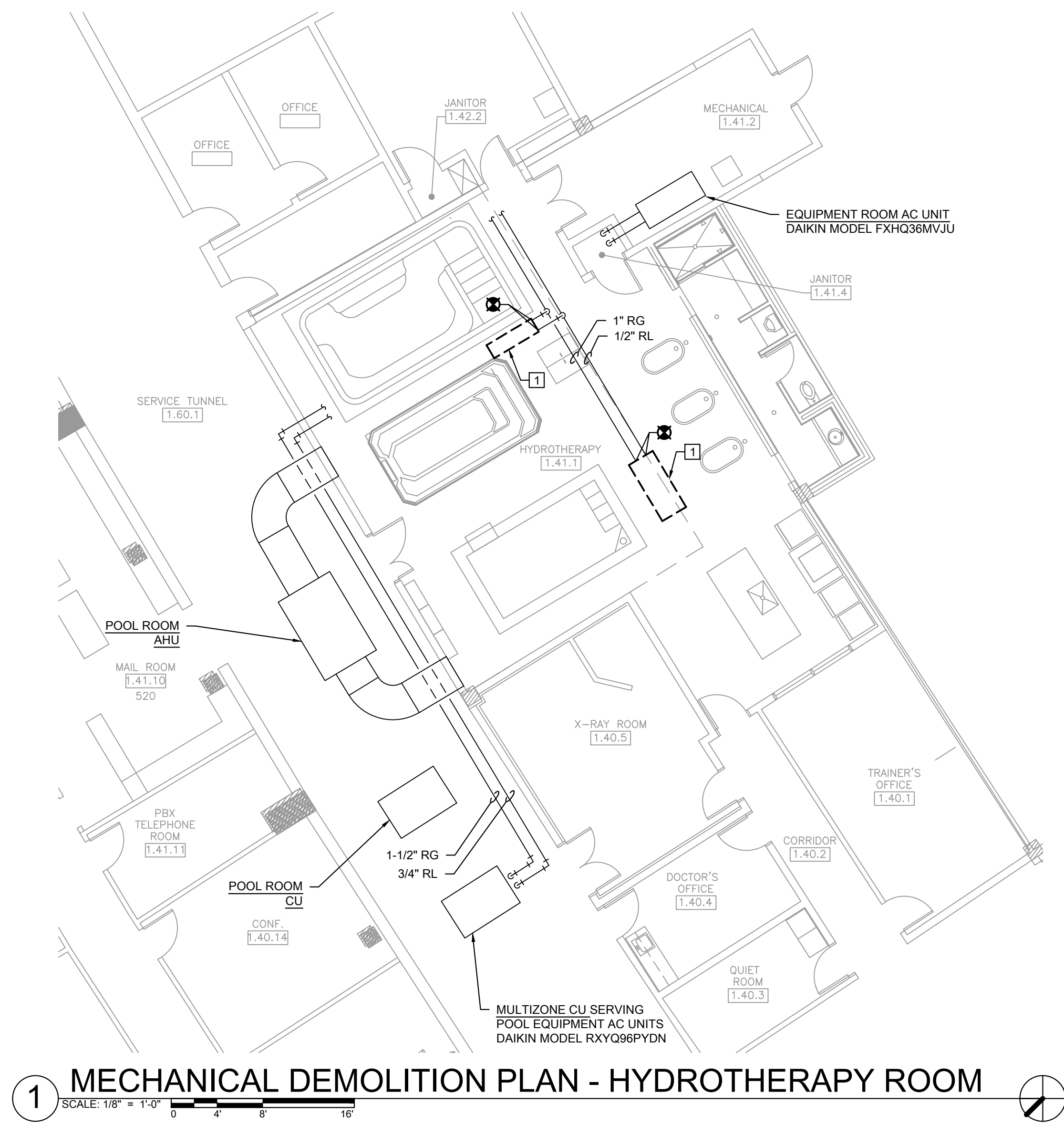
ACD	AUTOMATIC CONTROL DAMPER	HGRH	HOT GAS REHEAT
AD	ACCESS DOOR	HP	HORSEPOWER
AF	ABOVE FINISHED FLOOR	HPS	HIGH PRESSURE STEAM
AHU	AIR HANDLING UNIT	HRC	HEAT RECOVERY COIL
AP	ACCESS PANEL	HWR	HOT WATER RETURN
APD	AIR PRESSURE DROP	HWS	HOT WATER SUPPLY
AS	AIR SEPARATOR	HE	HEAT EXCHANGER
B	BOILER	HZ	HERTZ
BAS	BUILDING AUTOMATION SYSTEM	ILVL	INTEGRATED PART LOAD VALUE
BASC	BUILDING AUTOMATION SYSTEM CONTRACTOR	KG	KILOGRAM
BFV	BUTTERFLY VALVE	KH	KITCHEN HOOD
BHP	BOILER FEED WATER	LAT	LEAVING AIR TEMPERATURE
BOD	BOTTOM OF DUCT	LPS	LOW PRESSURE STEAM
BOI	BOTTOM OF INSULATION	LWT	LEAVING WATER TEMPERATURE
BOP	BOTTOM OF PIPE	MAU	MAKE-UP AIR UNIT
BT	BUFFER TANK	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
BTU	BRITISH THERMAL UNIT	MC	MECHANICAL CONTRACTOR
BTUH	BRITISH THERMAL UNIT PER HOUR	MCA	MINIMUM CIRCUIT AMPACITY
BV	BALL VALVE	MCO	MAXIMUM OVER-CURRENT PROTECTION
CBV	CIRCUIT BALANCING VALVE	MU	MAKE-UP WATER
CC	COMMON	NC	NORMALLY CLOSED
CCV	COOLING COIL	NI	NOT IN CONTRACT
CFM	CUBIC FEET PER HOUR	NK	NECK
CHWR	CHILLED WATER RETURN	NO	NORMALLY OPEN
CHWS	CHILLED WATER SUPPLY	NPLV	NONSTANDARD PART LOAD VALUE
COND	CONDENSATE	NPSH	NET POSITIVE SUCTION HEAD
CONV	CONVECTOR	NTS	NOT TO SCALE
COP	COEFFICIENT OF PERFORMANCE	OA	OUTDOOR AIR
CO2	CARBON DIOXIDE	OSD	OPEN SITE DRAIN
CR	CONDENSATE RETURN	OSY	OUTSIDE STEM AND YOE
CT	COOLING TOWER	P	PUMP
CJ	CONDENSING UNIT	PCC	PRE-COOL COIL
CV	CONTROL VALVE	PD	PRESSURE DROP
CW	COLD (OR CITY) WATER	PG	PROPYLENE GLYCOL
CWR	CONDENSER WATER RETURN	PHC	PRESSURE RELIEF DOOR
CWS	CONDENSER WATER SUPPLY	PRV	PRESSURE REDUCING (OR REGULATING) VALVE
D	DRAIN	PS	PIPS
DB	DRY BULB	PSI	POUNDS PER SQUARE INCH
DHW	DOMESTIC HOT WATER	R	RETURN
DHWR	DOMESTIC HOT WATER RETURN	RA	RETURN AIR
DN	DOWN	RAD	RADIANT PANEL
DOAS	DEDICATED OUTDOOR AIR SYSTEM	RF	RETURN FAN
DPT	DIFFERENTIAL PRESSURE TRANSDUCER	RH	REHEAT
DS	DUCT SLEEVE	RHC	REHEAT COIL
DTR	DUAL TEMPERATURE WATER RETURN	RL	REFRIGERANT LIQUID
DT	DUAL TEMPERATURE WATER SUPPLY	RPM	REVOLUTIONS PER MINUTE
ETS	EXHAUST	RS	REFRIGERANT SUCTION
E	EXHAUST	RTU	ROOFTOP UNIT
EAT	ENTERING AIR TEMPERATURE	RV	RELIEF VALVE
EAD	ENTERING AIR DAMPER	S	SUPPLY
EB	ELECTRIC BASEBOARD	SA	SUPPLY AIR
EC	ELECTRICAL CONTRACTOR	SAN	SANITARY
ECM	ELECTRONICALLY COMMUTATED MOTOR	SE	SEMI
EDH	ELECTRIC DUCT HEATER	SEER	SEASONAL ENERGY EFFICIENCY RATIO
EER	ENERGY EFFICIENCY RATIO	SF	SUPPLY FAN
EF	EXHAUST FAN	SP	STATIC PRESSURE
EG	ETHYLENE GLYCOL	SS	STAINLESS STEEL
EJ	EXPANSION JOINT	SST	SATURATED SUCTION TEMPERATURE
ERV	ENERGY RECOVERY VENTILATOR	STM	STEAM
ESP	EXTERNAL STATIC PRESSURE	STR	STRAINER
ET	EXPANSION TANK	SUH	SUSPENDED UNIT HEATER
EWT	ENTERING WATER TEMPERATURE	T	THERMOSTAT
F	FAHRENHEIT	T	TRANSFER
FC	FLEXIBLE CONNECTOR (OR CONNECTION)	TDM	TOTAL DYNAMIC HEAD
FD	FLOOR DRAIN	TDL	TRIPLE DUTY VALVE
FCU	FAN COIL UNIT	TYP	TYPICAL
FD	FIRE DAMPER	TFA	TO FLOOR ABOVE
FSD	FIRE/SMOKE DAMPER	TFB	TO FLOOR BELOW
PFA	FROM FLOOR ABOVE	TSP	TOTAL STATIC PRESSURE
FB	FROM FLOOR BELOW	UC	UNDERCUT DOOR
FLA	FULL LOAD AMPS	UH	UNIT HEATER
FOB	FLAT ON BOTTOM	V	VENT
FOT	FLAT ON TOP	VAV	VARIABLE AIR VOLUME
FPM	FEET PER MINUTE	VD	VOLUME DAMPER
FS	FILL SYSTEM	VFD	VARIABLE FREQUENCY DRIVE
FS	FILL SYSTEM	VIR	VENT THROUGH ROOF
FTS	FINNED TUBE RADIATION	WB	WET BULB
FV	FACE VELOCITY	WC	WATER COLUMN
G	GAS	WG	WATER GAUGE
GA	GAUGE	WL	WALL LOUVER
GPM	GALLONS PER MINUTE	WPD	WATER PRESSURE DROP
HC	HEATING COIL		
HG	HOT GAS		

NOTE: NOT ALL ABBREVIATIONS LISTED ABOVE MAY BE USED OR APPEAR IN THESE DRAWINGS.

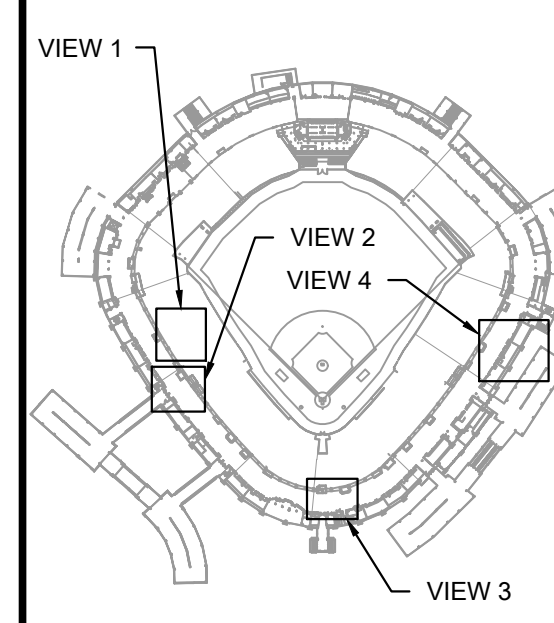
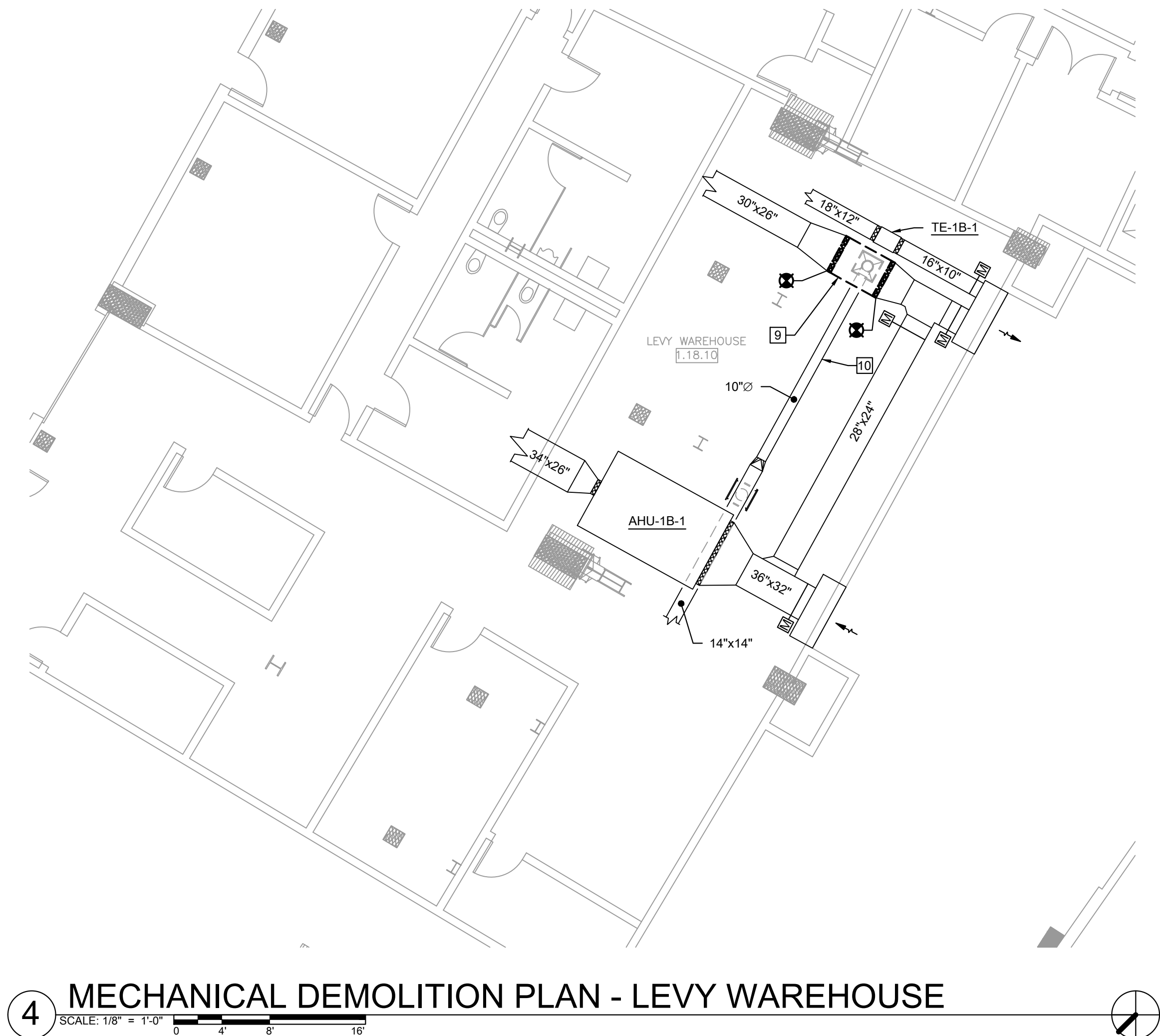
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KEYED MECHANICAL DEMOLITION SHEET NOTES	
1.	DISCONNECT AND DEMOLISH EXISTING DX CASSETTES LOCATED IN SPACE BELOW FLOOR CONTAINING POOL EQUIPMENT AND ASSOCIATED ELECTRICAL EQUIPMENT. EQUIPMENT IS DIRECTLY SUPPORTED FROM FLOOR STRUCTURE ABOVE.
2.	DISCONNECT AND DEMOLISH EXISTING DX CASSETTE AND EXTERNAL CONDENSATE PUMP, AND ASSOCIATED CONDENSATE DRAIN TO POINT OF CONNECTION TO SHARED DRAIN LINE. RECOVER REFRIGERANT.
3.	DISCONNECT AND DEMOLISH CONDENSING UNIT ASSOCIATED WITH IT CASSETTE REMOVAL AND ABANDONED YORK CONDENSING UNIT. CONDENSING UNITS ARE SUSPENDED HIGH ABOVE SERVICE CORRIDOR. REMOVE UNIT AND ALL ASSOCIATED SUPPORTS AND PIPING. CONTRACTOR SHALL CONFIRM WHICH CONDENSING UNIT IS CONNECTED TO THE FAILED CASSETTE BEING REPLACED PRIOR TO EQUIPMENT DEMOLITION.
4.	DEMOLISH EXISTING CEILING DIFFUSER AND ASSOCIATED CONNECTED DUCT WHEN PRESENT. PROVIDE NEW CEILING TILE WITH 6" BATT INSULATION ON TOP.
5.	DISCONNECT EXISTING CHILLED WATER PIPING UPSTREAM OF SPLIT. CAP AND RETAIN FOR USE BY NEW FAN COIL SHOWN IN THE NEW WORK PLAN.
6.	DISCONNECT AND DEMOLISH TWO (2) EXISTING DUCTED FAN COILS ABOVE CEILING, INCLUDING SUPPORTS AND HANGERS.
7.	DEMOLISH EXISTING SUPPLY DIFFUSERS. REMOVE FLEX DUCT AND ANY SUPPORTS OR CONNECTORS ABOVE CEILING.
8.	DISCONNECT AND DEMOLISH EXISTING CONDENSATE DRAIN LINES ASSOCIATED WITH EACH FAN COIL. CAP AT THE EXISTING TO REMAIN SHARED DRAIN LINE.
9.	DISCONNECT AND DEMOLISH EXISTING INLINE RETURN FAN LOCATED ROUGHLY 15' ABOVE GRADE AND ASSOCIATED FLEX CONNECTORS.
10.	CONTRACTOR SHALL TAKE CARE TO AVOID DAMAGING SUSPENDED SUPPLY DUCTS AND GRILLES DIRECTLY BELOW FAN TO BE DEMOLISHED.



ISSUE/REVISION:		
REV.	DATE	DESCRIPTION
-	11/05/21	ISSUED FOR BID
Δ	11/15/21	ISSUED FOR BID ADDENDUM

PROJECT:  
 GUARANTEED RATE FIELD -  
 HVAC REPLACEMENT PHASE XI

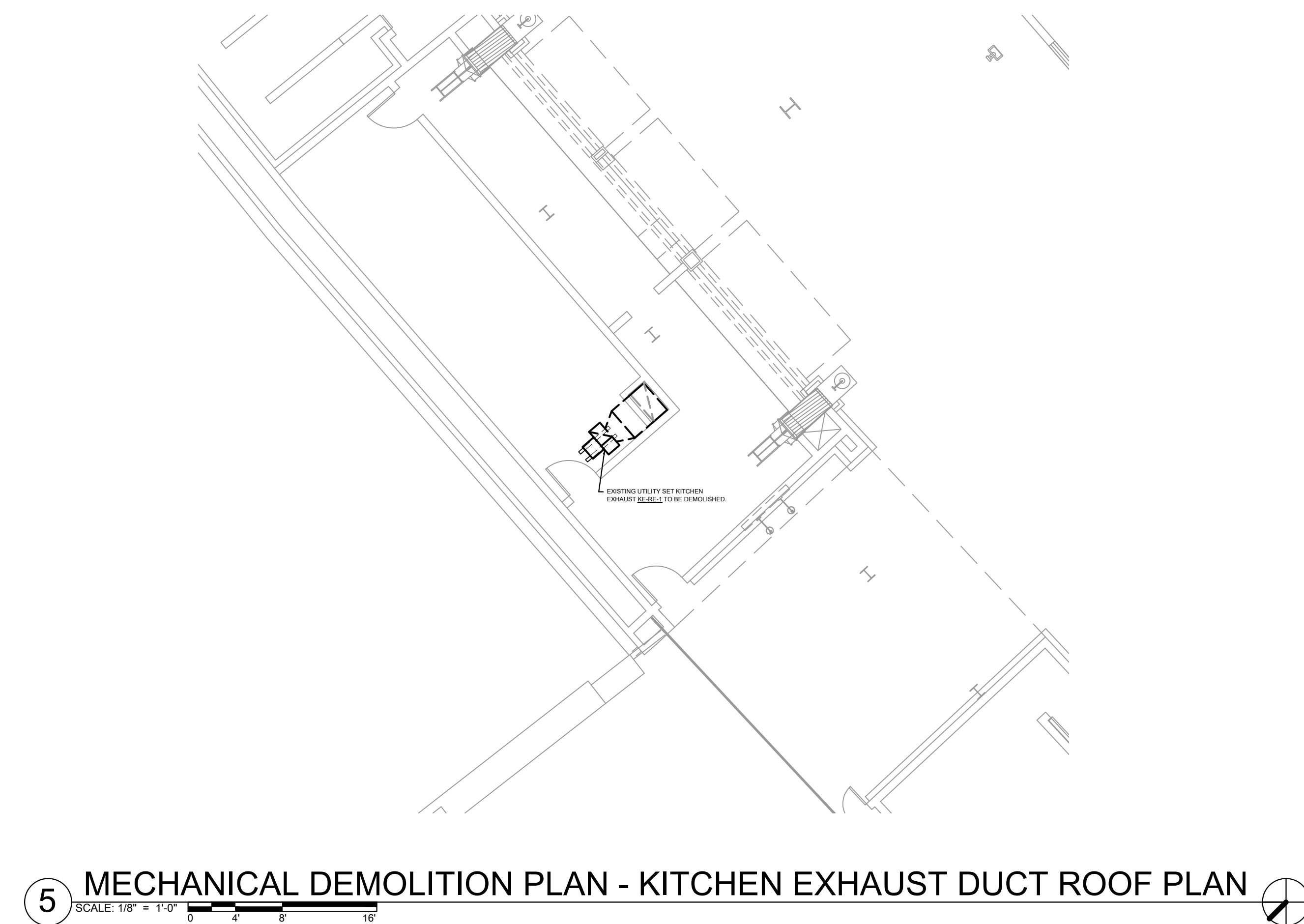
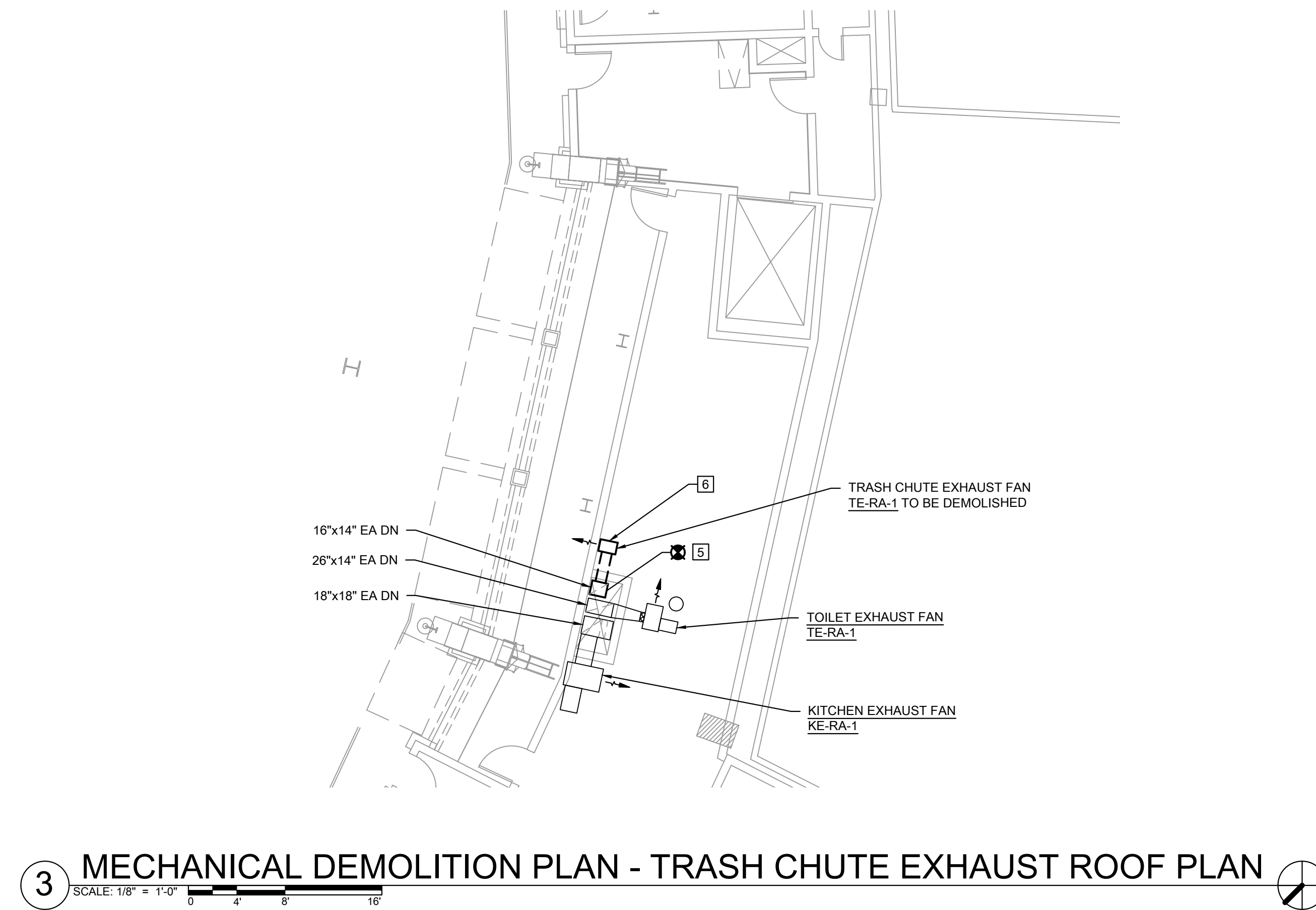
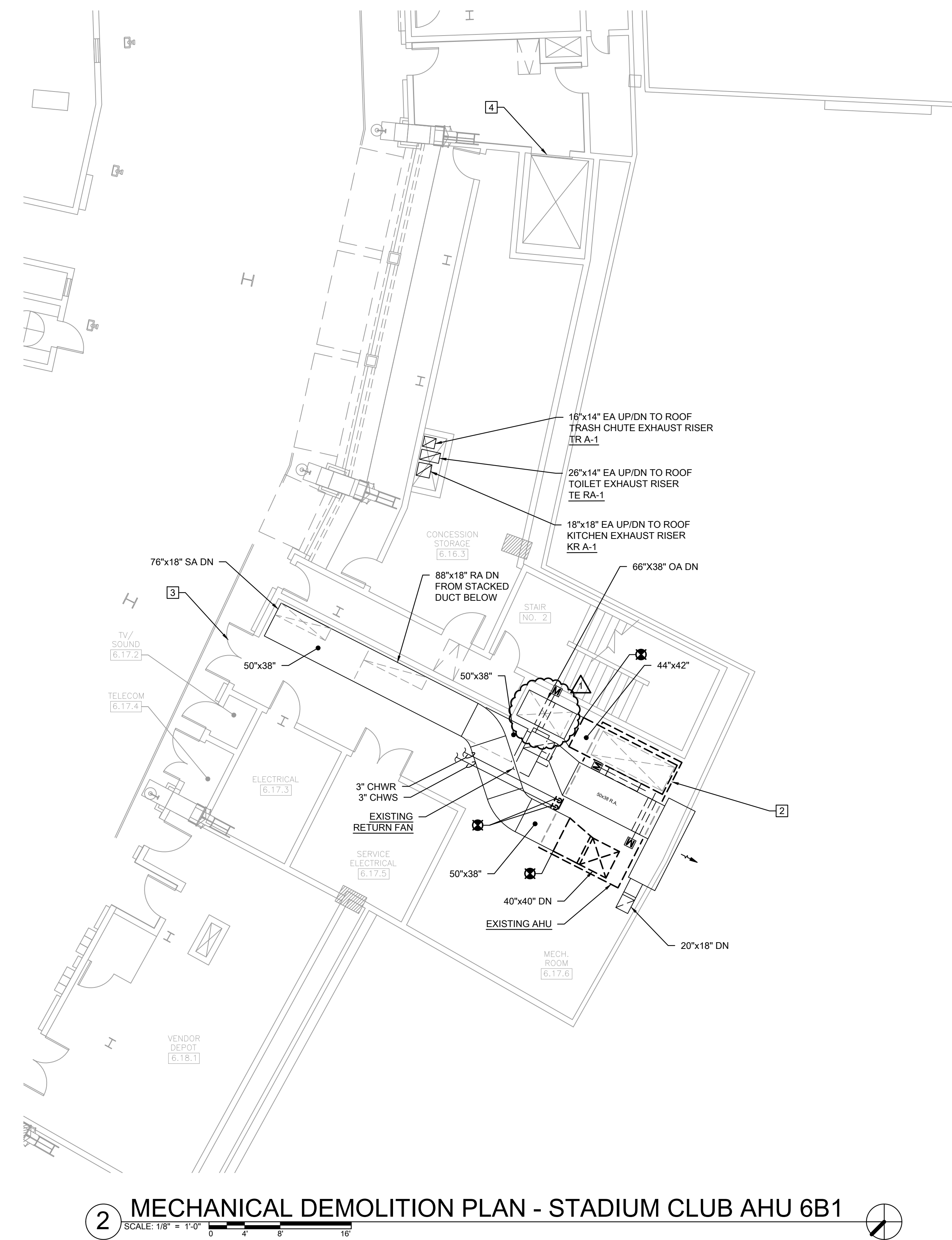
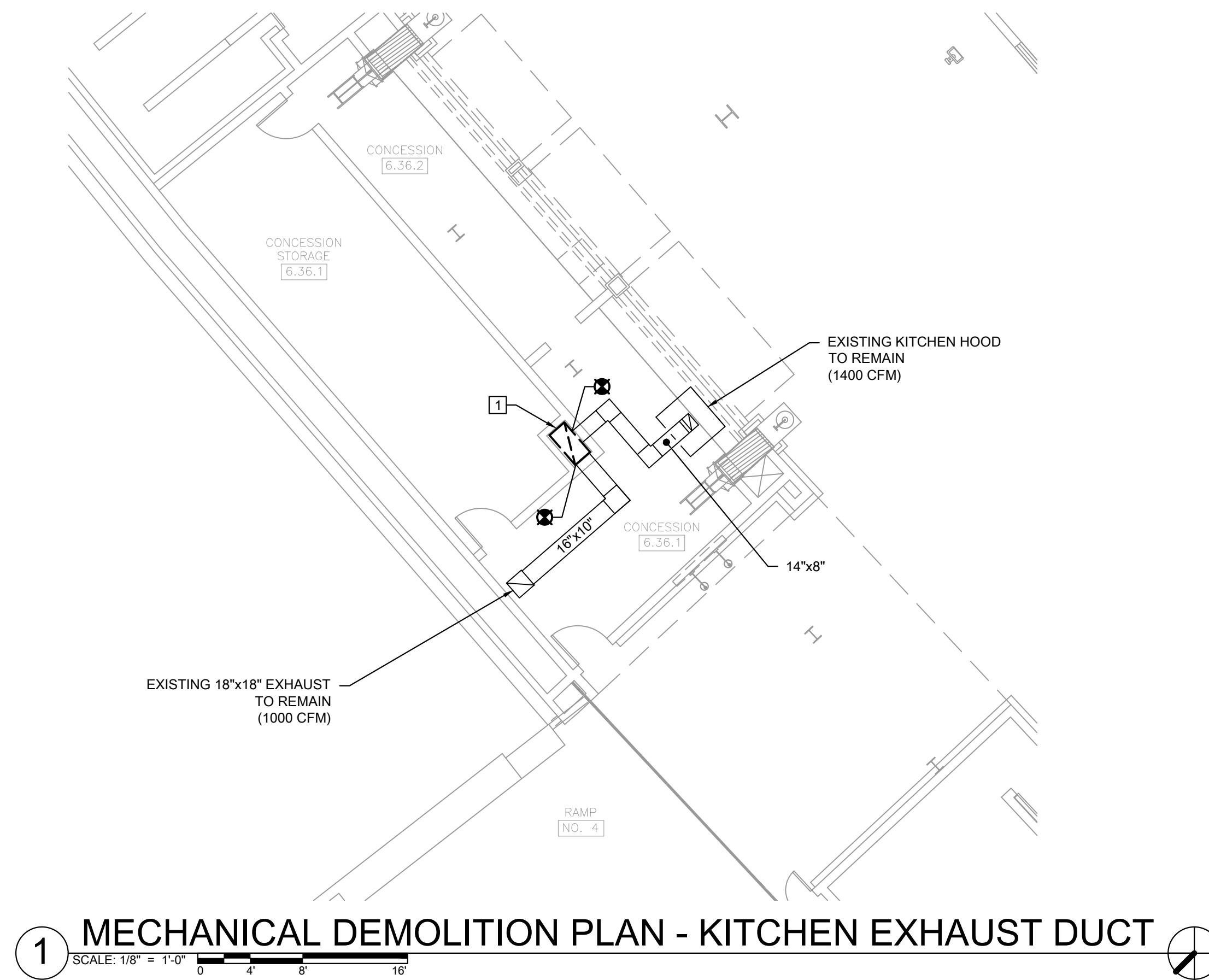
333 W 35TH STREET,  
 CHICAGO, ILLINOIS 60616

DRAWING TITLE:  
 MECHANICAL DEMOLITION  
 PLAN - CONCOURSE  
 ENLARGED PLANS

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CHECKED BY:	MS
PROJECT NO:	21276
SCALE:	1/8" = 1'-0"
SHEET NO.	

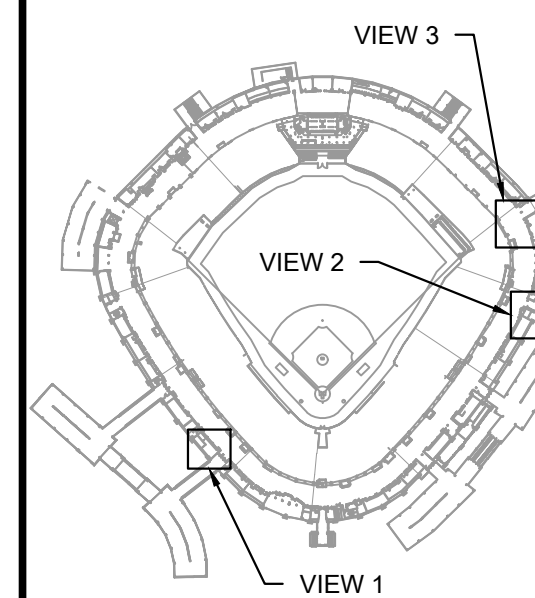


30 N. Wolf Rd., Second Floor  
Hillside, IL 60162  
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(708) 236-0330 FAX



KEYED MECHANICAL DEMOLITION SHEET NOTES	
1.	EXISTING 36"x14" KR-E1 EXHAUST RISER DN. CAP AT FLOOR AND ABANDON IN PLACE.
2.	DISCONNECT AND DEMOLISH EXISTING ELECTRIC HEAT, CHILLED WATER AIR HANDLER. REMOVE SUPPLY AND OUTSIDE AIR DUCTWORK TO FACILITATE NEW CONNECTIONS FOR NEW AIR HANDLER.
3.	DOUBLE DOORS CONNECTING MECHANICAL ROOM TO 500 LEVEL CONCOURSE IS RECOMMENDED FOR REMOVAL OF DEMOLISHED MECHANICAL EQUIPMENT AND OTHER MATERIALS.
4.	SERVICE ELEVATOR REACHES ALL FLOORS. COORDINATE WITH ISFA AND CHICAGO WHITE SOX FOR ACCESS LIMITATIONS AND REQUIREMENTS.
5.	DEMOLISH EXISTING 16"x14" EXHAUST DUCT STUB ABOVE ROOF AS PART OF DEMOLITION OF TRASH CHUTE FAN. PROTECT OPEN DUCT WITH WEATHERTIGHT SEALED COVER DURING CONSTRUCTION PRIOR TO INSTALLATION OF NEW DUCTWORK.
6.	PERFORM PREREAD OF EXISTING EXHAUST FAN PRIOR TO DEMOLITION. FINAL REPORT SHALL INCLUDE A READING AT THE FAN, READINGS AT ALL THREE INLETS, AND CONFIRMATION OF EXISTING DAMPERS AND AIR INLETS.

KEY PLAN



ISSUE/REVISION:

REV.	DATE	DESCRIPTION
-	11/05/21	ISSUED FOR BID
A	11/15/21	ISSUED FOR BID ADDENDUM

PROJECT:  
GUARANTEED RATE FIELD -  
HVAC REPLACEMENT PHASE XI

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CHICAGO, ILLINOIS 60616

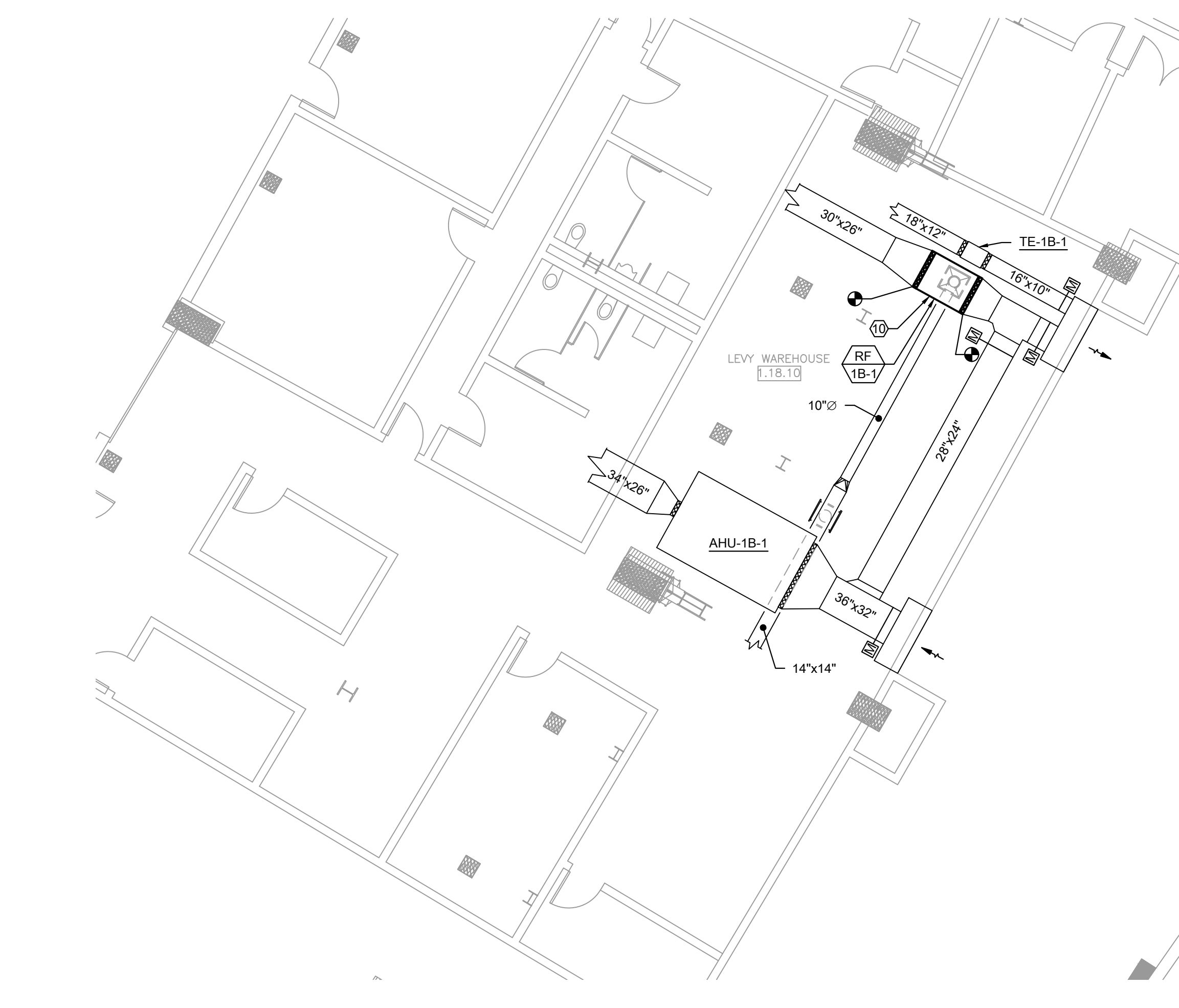
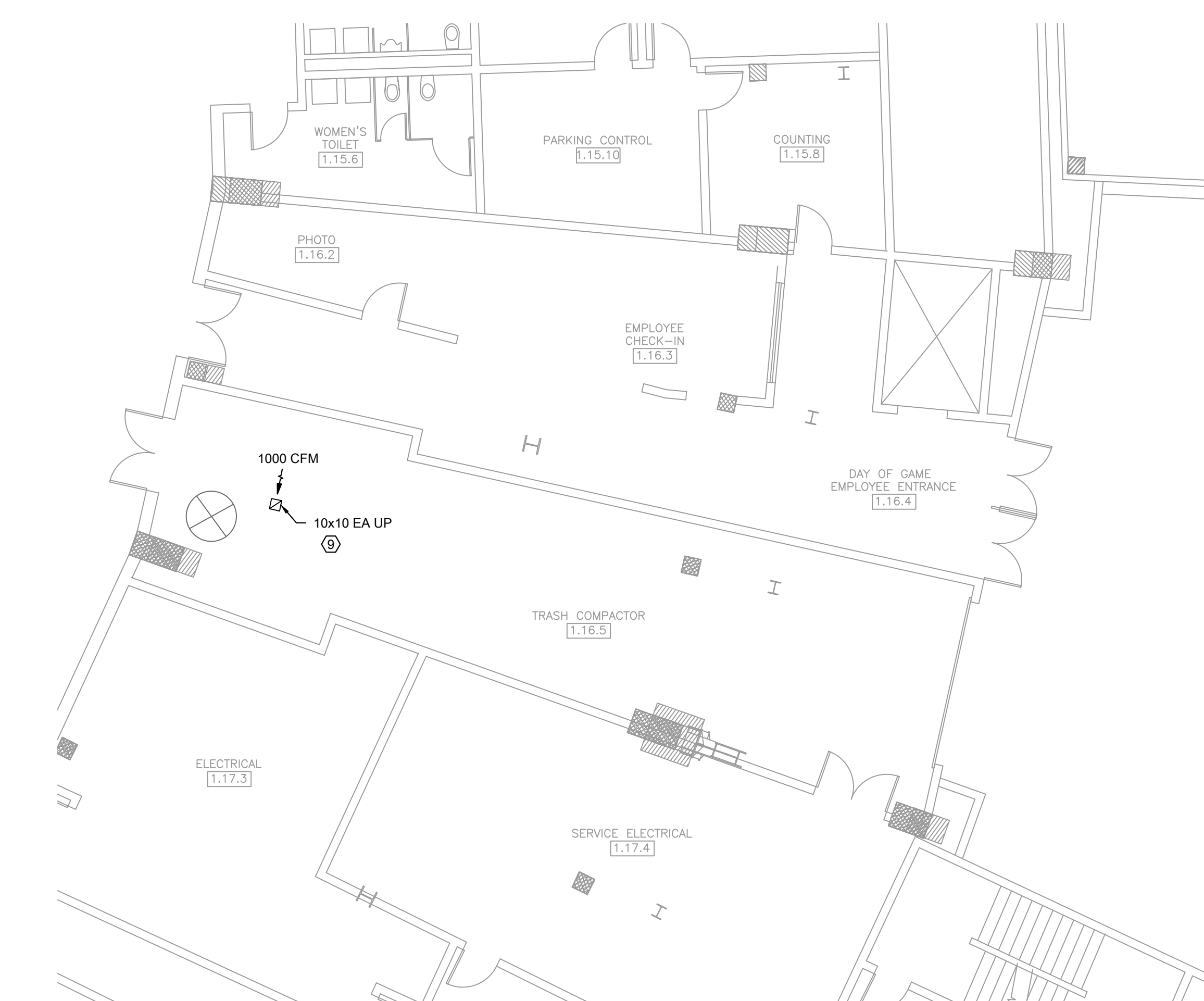
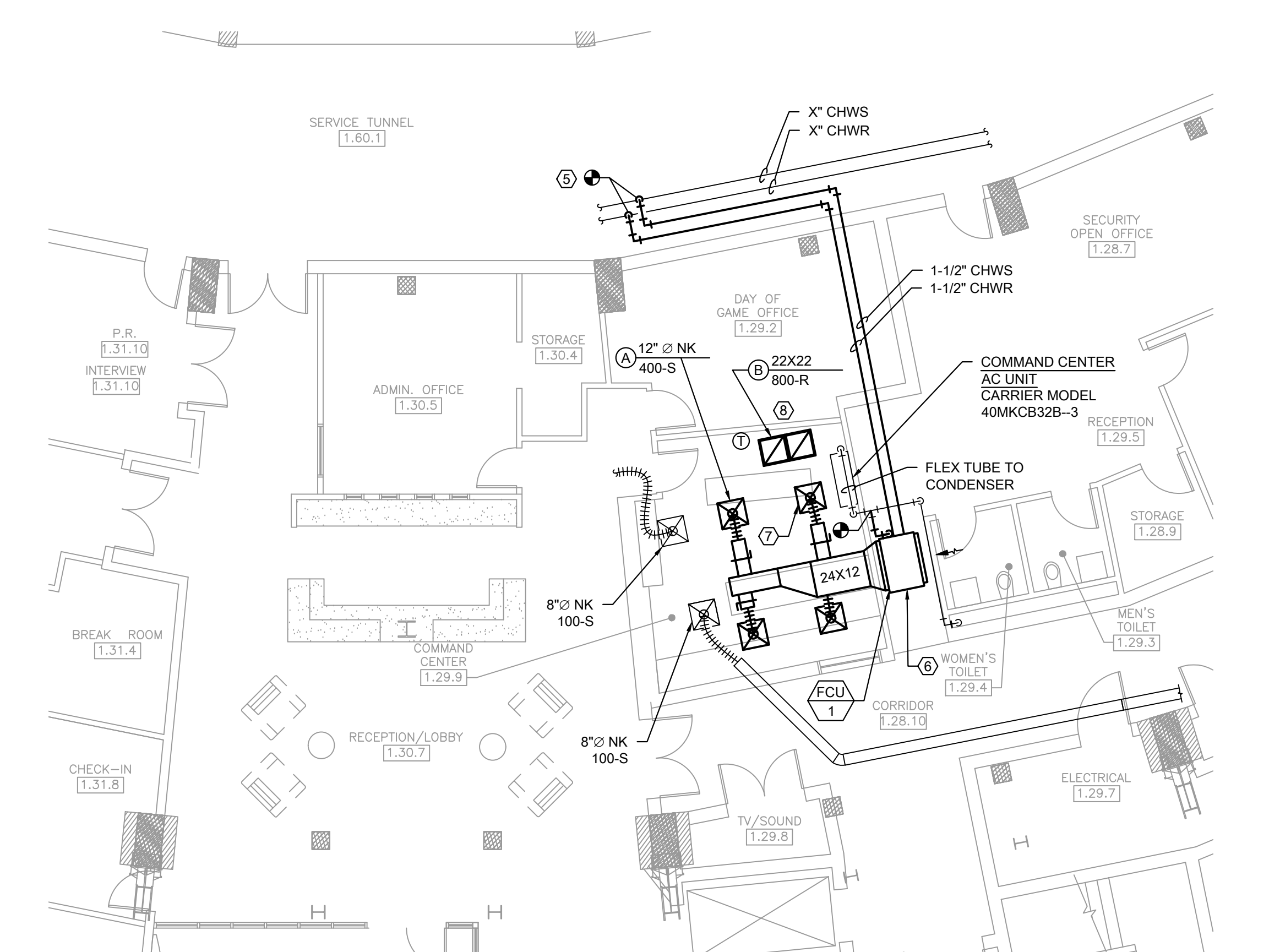
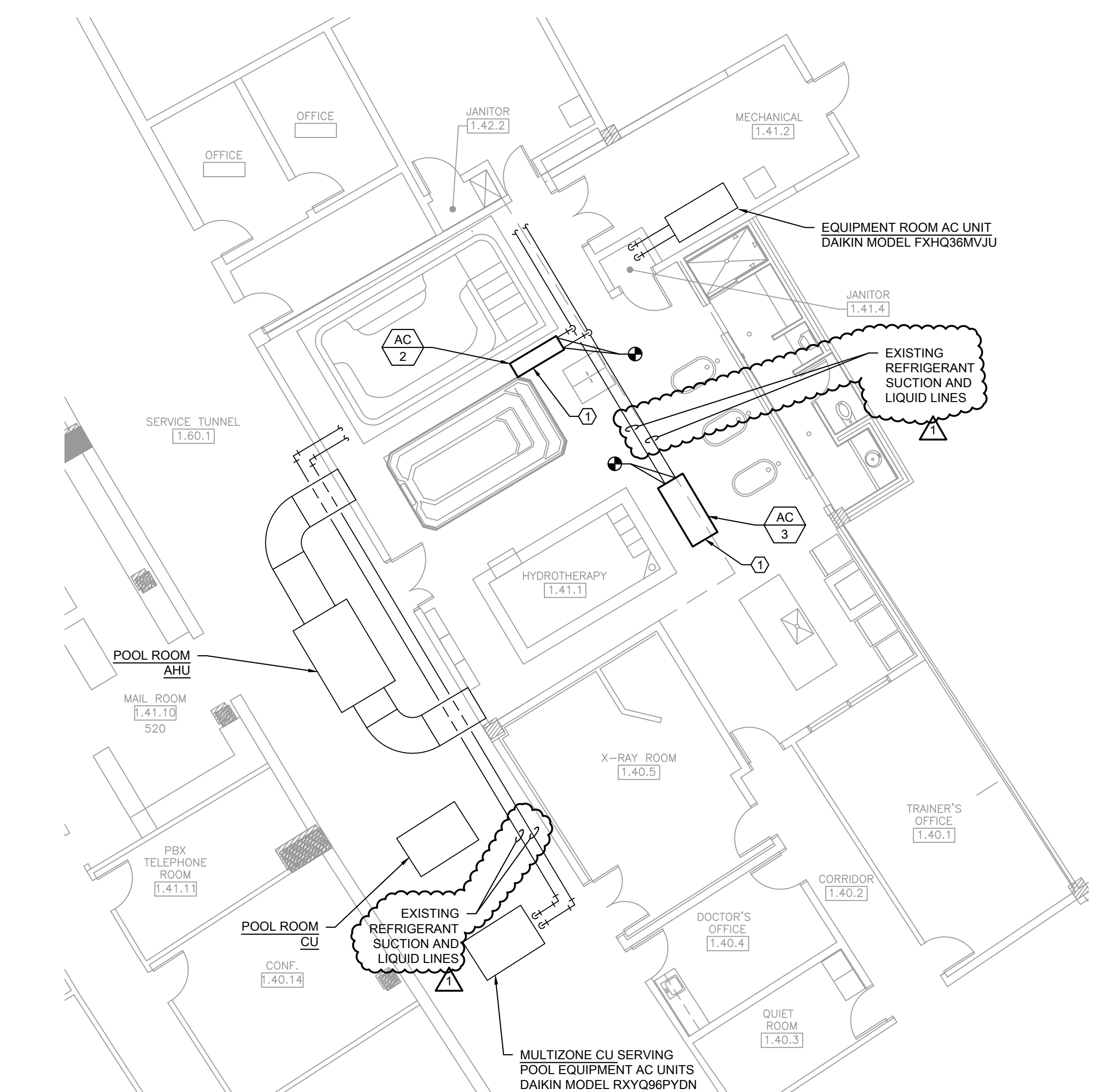
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MECHANICAL DEMOLITION  
PLAN - LEVEL 500 ENLARGED  
PLANS

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PROJECT NO:	21276
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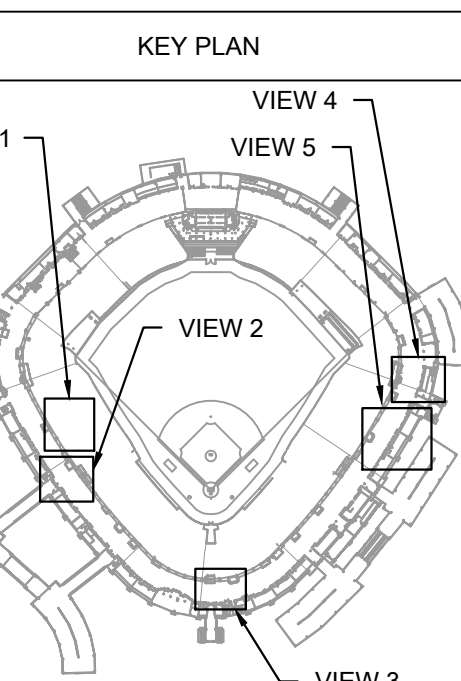


- KEYED MECHANICAL NEW WORK SHEET NOTES

1. MOUNT TWO (2) NEW CASSETTE UNITS IN LOCATIONS OF PREVIOUS UNITS. CONNECT TO EXISTING REFRIGERANT LIQUID, REFRIGERANT SUCCTION, AND CONDENSATE DRAIN LINES. TIE TO EXISTING CONTROLS AND RECHARGE WITH REFRIGERANT.
2. CAP SUPPLY DUCT ABOVE CEILING.
3. INSTALL NEW WALL MOUNTED CASSETTE UNIT JUST BELOW CEILING. ROUTE DISCHARGE FROM INTEGRAL CONDENSATE PUMP TO EXISTING CONDENSATE DRAIN LINE ABOVE CEILING WITH NEW TEE. ROUTE INSULATED REFRIGERANT LINES UP TO ABOVE CEILING, CUT TO SIZE FOR TIGHT CONNECTION TO EXISTING CONDENSATE UNIT. INSTALL NEW THERMOSTAT IN LOCATION SHOWN, COORDINATED WITH EXISTING AVAILABLE WALL SPACE.
4. LOCATE NEW CONDENSING UNIT ON STRUCTURAL PLATFORM ELEVATED ABOVE THE SERVICE CORRIDOR. SUPPORT PLATFORM FROM STRUCTURE ABOVE.
5. CONNECT NEW 1-1/2" CHWIR LINES TO EXISTING TAPS IN CORRIDOR. PROVIDE NEW ISOLATION VALVES AND OTHER PIPING ACCESSORIES IN ACCORDANCE WITH THE PROVIDED DETAIL. INSULATE PER SPECIFICATION.
6. INSTALL NEW FAN COIL UNIT ABOVE ADJACENT CORRIDOR. SUPPORT INDEPENDENTLY FROM STRUCTURE ABOVE. PROVIDE INSULATED BRASS OR COPPER RAN LINES TO MATCH EXISTING CONDENSATE DRAIN LINE. **DO NOT REMOVE EXISTING CONDENSATE LINE FROM NEW FAN COIL UNIT TO EXISTING COMMON DRAIN LINE.**
7. INSTALL NEW DUCT DISTRIBUTION AND SUPPLY DIFFUSERS IN EXISTING CEILING. SUPPORT FLEX AT FINAL CONNECTION TO DELIVER AIR DIRECTLY DOWN ONTO DIFFUSER. REPLACE ANY CEILING TILES DAMAGED DURING WORK. REPLACEMENT TILES MUST MATCH EXISTING OR IF MATCHING TILES ARE UNAVAILABLE OR CANNOT BE OBTAINED, REPLACE ALL CEILING TILES IN THE ROOM.
8. INSTALL NEW RETURN GRILLES IN EXISTING CEILING. REPLACE ANY CEILING TILES DAMAGED DURING WORK. REPLACEMENT TILES MUST MATCH EXISTING OR IF MATCHING TILES ARE UNAVAILABLE OR CANNOT BE OBTAINED, REPLACE ALL CEILING TILES IN THE ROOM.
9. INLET TO TRASH CHUTE EXHAUST FAN TR-1 LOCATED NEAR STRUCTURAL SLAB ABOVE. TEST AND CONFIRM OPERATION OF EXISTING FIRE DAMPER IN FLOOR SLAB AND PROVIDE PRE-READ AND POST INSTALLATION READING OF AIRFLOW AT DUCT INLET. INLET TO PROVIDE TO PROTECT FROM TEMPERATURE FLUCTUATIONS. DO NOT IMPAIR THE OPERATION OF TRASH COMPACTOR EQUIPMENT BELOW AND PROVIDE REQUIRED FULL PROTECTION TO THEIR WORKERS AND TEST AND BALANCE SUBCONTRACTOR.
10. CONTRACTOR SHALL THOROUGHLY CLEAN THE COMPLETE DUCT RUN, ALL BRANCH DUCTS, AND AIR GRILLES CONNECTED TO THIS SYSTEM. REFER TO MECHANICAL DIAGRAM AND OTHER FLOOR PLANS FOR INLETS AND ACCESS POINTS.
11. INSTALL NEW INLINE RETURN FAN IN WAREHOUSE. PROVIDE NEW FLEX CONNECTORS AND SPRING ADJUSTED SUPPORTS. ONCE INSTALLED, CONTRACTOR SHALL RETURN AFTER MANUFACTURER RECOMMENDED HOURS TO ADOPT BELT TENSION.



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side, IL 60162  
8) 236-0300  
8) 236-0330 FAX

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ECT:  
 GUARANTEED RATE FIELD -  
 C REPLACEMENT PHASE XI

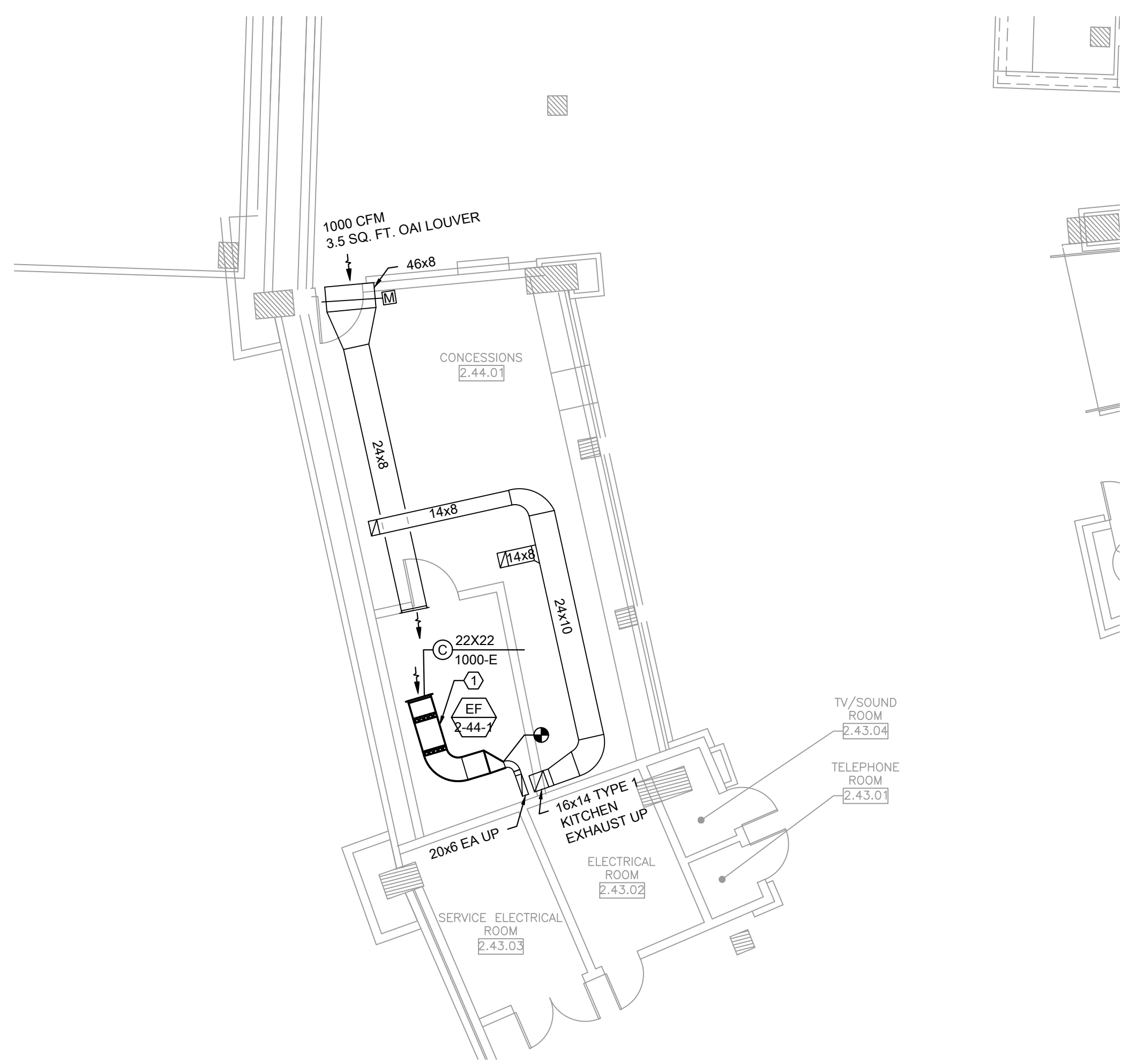
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MECHANICAL NEW WORK  
PLAN - CONCOURSE  
ENLARGED PLANS

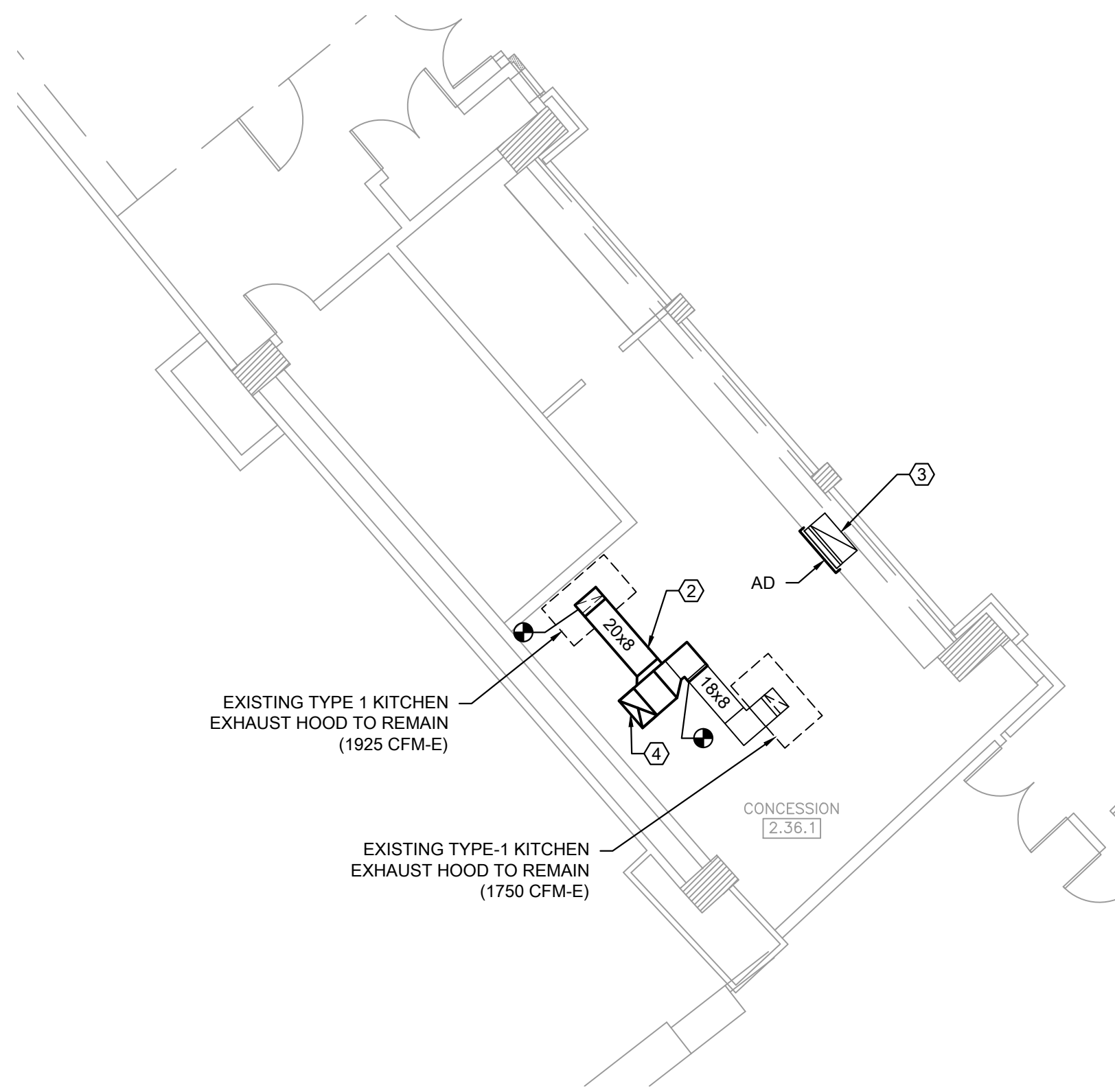
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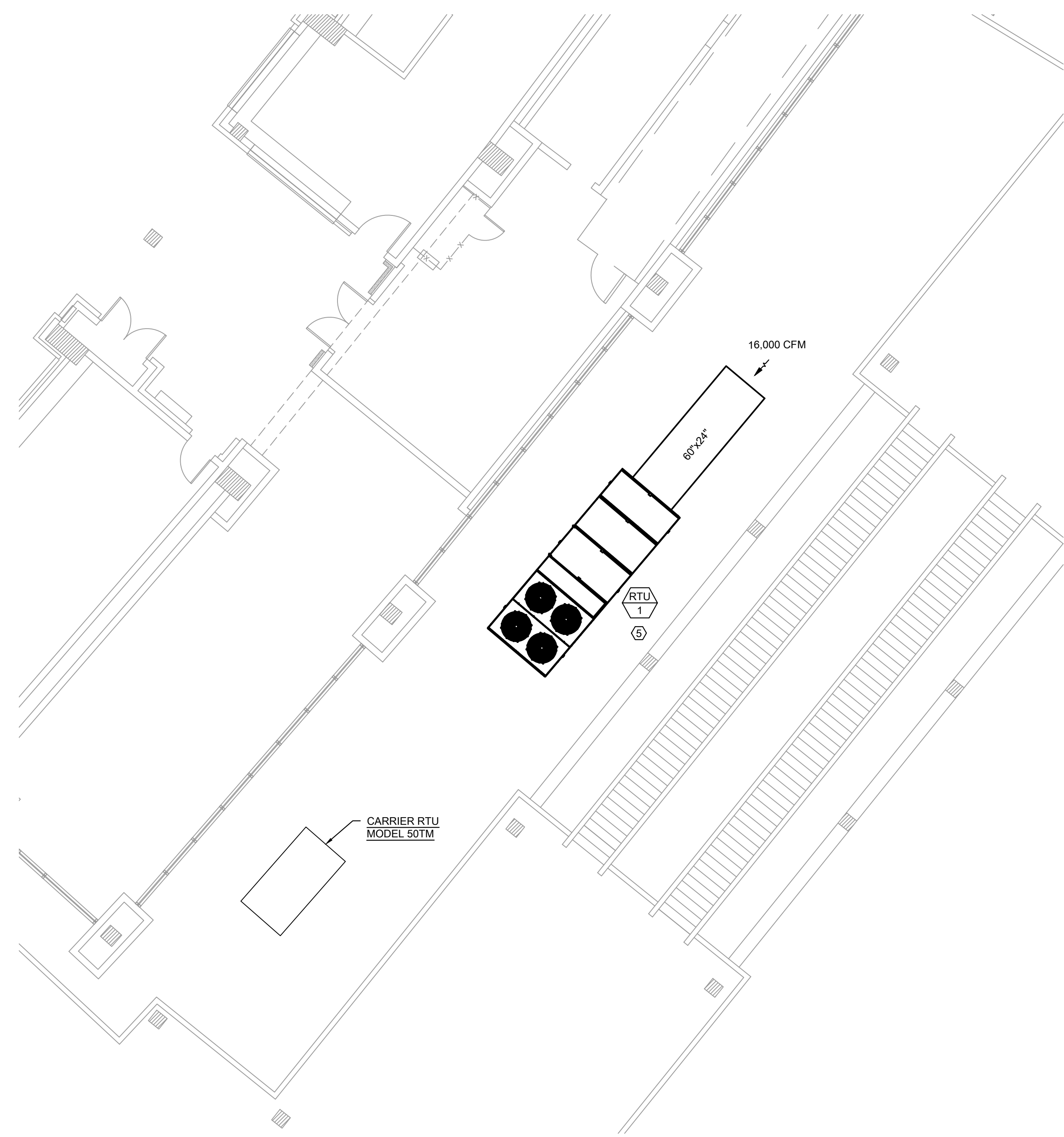
## M1.02



1 MECHANICAL NEW WORK PLAN - SECTION 154 CONCESSION COOLING

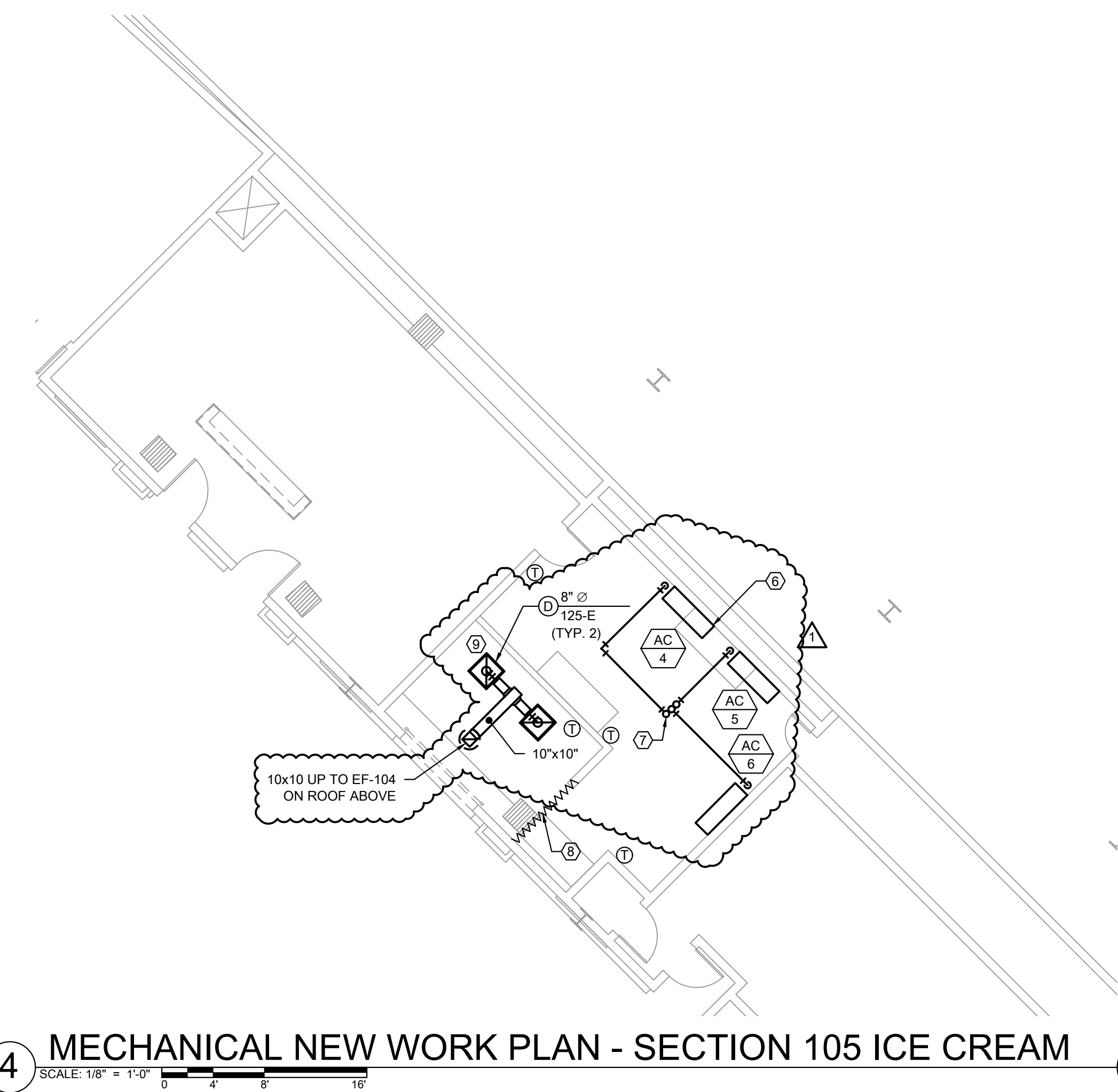


2 MECHANICAL NEW WORK PLAN - KITCHEN EXHAUST



3 MECHANICAL NEW WORK PLAN - SCOUTS LOUNGE ROOF

- KEYED MECHANICAL NEW WORK SHEET NOTES**
1. INSTALL NEW EXHAUST FAN, EXHAUST AIR INLET, UPSTREAM AND DOWNSTREAM DUCTWORK AND FITTINGS.
  2. RECONFIGURE DUCTWORK SERVING HOOD TO FACILITATE RISER RELOCATION. DUCT SHALL BE SLOPED AND PROVIDED WITH CLEANOUTS IN ACCORDANCE WITH CODE. COVER IN FIRE-WRAP PER SPECIFICATIONS.
  3. EXISTING KR-E1 RISER TO BE CAPPED IN SPACE AND ABANDONED IN PLACE, PROVIDE ACCESS DOOR TO ALLOW FUTURE INSPECTION IF NECESSARY. PROVIDE DRAIN IN DUCT CAP ROUTED TO CLOSEST FLOOR SINK OR FLOOR DRAIN. PROVIDE WITH SIGHT GLASS AND ISOLATION VALVE FOR DIAGNOSING IF ABANDONED DUCT RISER IS TAKING ON WATER.
  4. INSTALL NEW 26x14 BLACK IRON KITCHEN EXHAUST DUCT UP THROUGH ROOF TO NEW KITCHEN EXHAUST FAN KEF-1. REFER TO SCHEMATIC RISER DIAGRAM ON M2.01. PROVIDE FIRE WRAP PER SPECIFICATIONS. ENSURE EXISTING DUCT SECTIONS THAT REMAIN ARE CLEANED PRIOR TO WELDING NEW CONNECTIONS.
  5. INSTALL NEW VAV ROOF TOP UNIT ON EXISTING CURB WITH CURB ADAPTER. BASIS OF DESIGN UNIT WILL REQUIRE ADAPTER CDI PART # 1-9225-5032. CONNECT TO EXISTING SUPPLY AND RETURN DUCTS BELOW. COORDINATE INTEGRATION OF NEW UNIT INTO EXISTING SIEMENS BAS WITH OWNER DESIGNATED BAS REPRESENTATIVE.
  6. INSTALL THREE (3) NEW WALL MOUNTED DX CASSETTE UNITS. PROVIDE CONDENSATE DRAIN TO NEAREST FLOOR DRAIN. MOUNT REMOTE CONTROL THERMOSTAT ON WALL AS SHOWN.
  7. ROUTE REFRIGERANT LINES FOR NEW DX CASSETTES HIGH BEFORE PENETRATING THROUGH ROOF TO NEW ROOF MOUNTED CONDENSING UNIT. SUPPORT AND INSULATE PER DETAILS AND SPECIFICATIONS.
  8. INSTALL VINYL CURTAIN STRIP DOOR TO ISOLATION POINT OF SALE AREA FROM BACK ROOM TO CONTAIN COOLING TO THE STORAGE AREA. BLOCK AND SEAL ANY OPENINGS BETWEEN THE TWO SPACES NOT COVERED BY THE VINYL STRIPS.
  9. INSTALL NEW DUCTWORK AND EXHAUST GRILLERS FOR SERVICE COUNTER SECTION OF CONCESSION STAND 104. COORDINATE EXACT LOCATION WITH AGT LAYOUT TO AVOID CONFLICT WITH LIGHTS, ETC. DUCTWORK TO BE ROUTED ABOVE ACCESSIBLE CEILING AND BELOW THE ROOF SLAB OF THE STAND.



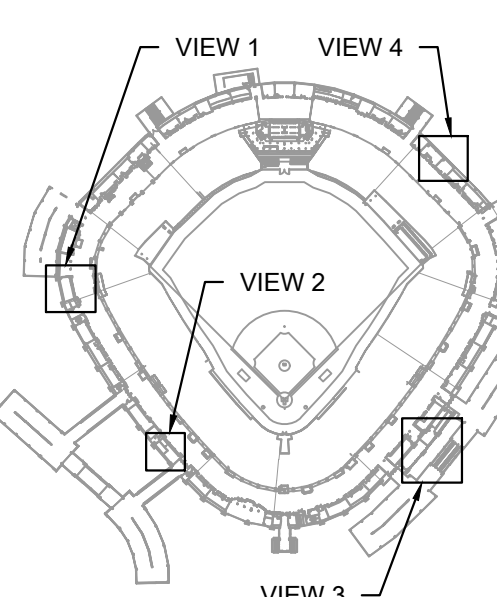
4 MECHANICAL NEW WORK PLAN - SECTION 105 ICE CREAM



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KEY PLAN



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1	11/05/21	ISSUED FOR BID
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PROJECT:

GUARANTEED RATE FIELD -  
HVAC REPLACEMENT PHASE XI

333 W 35TH STREET,  
CHICAGO, ILLINOIS 60616

DRAWING TITLE:  
MECHANICAL NEW WORK  
PLAN - LEVEL 100 ENLARGED  
PLANS

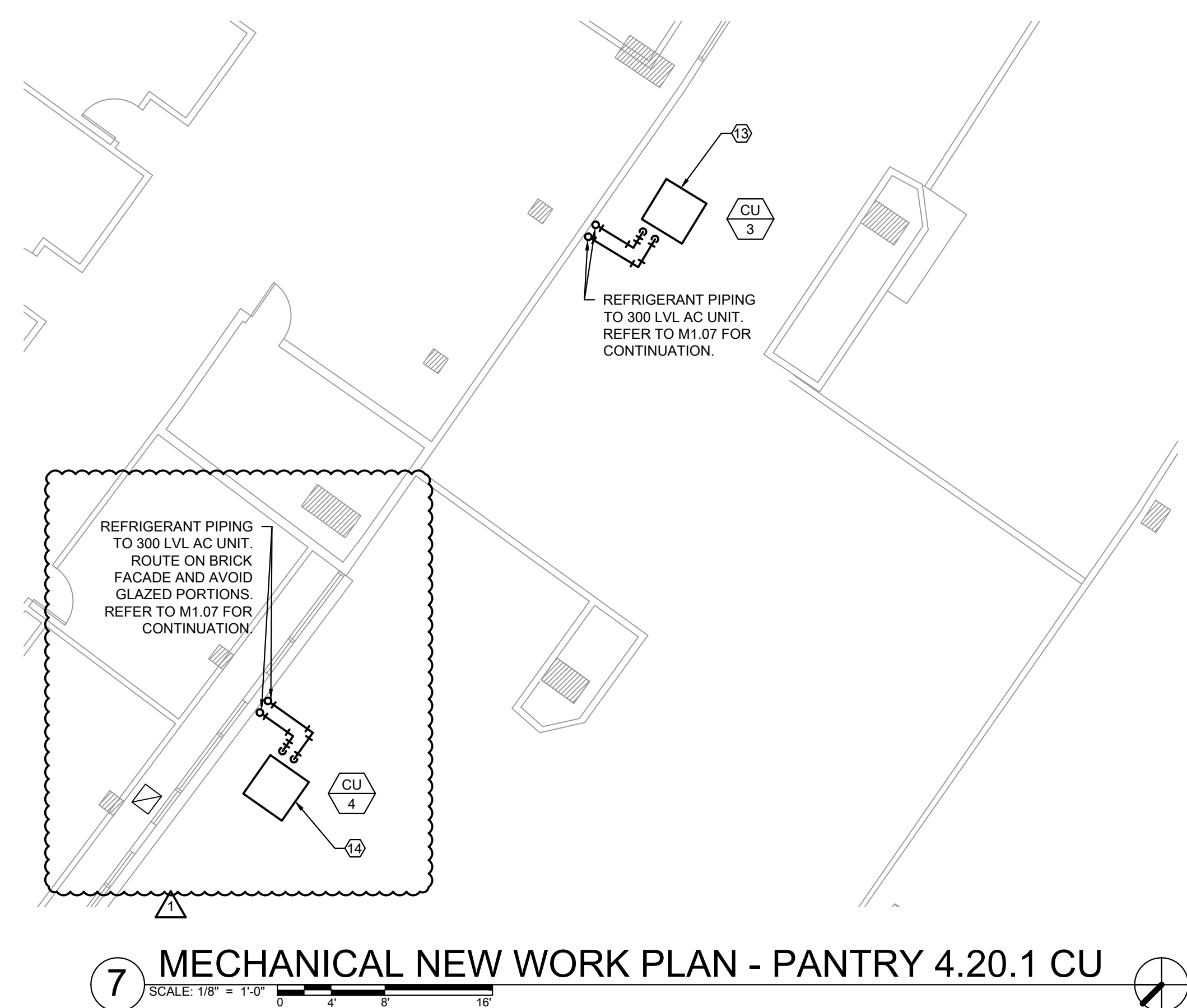
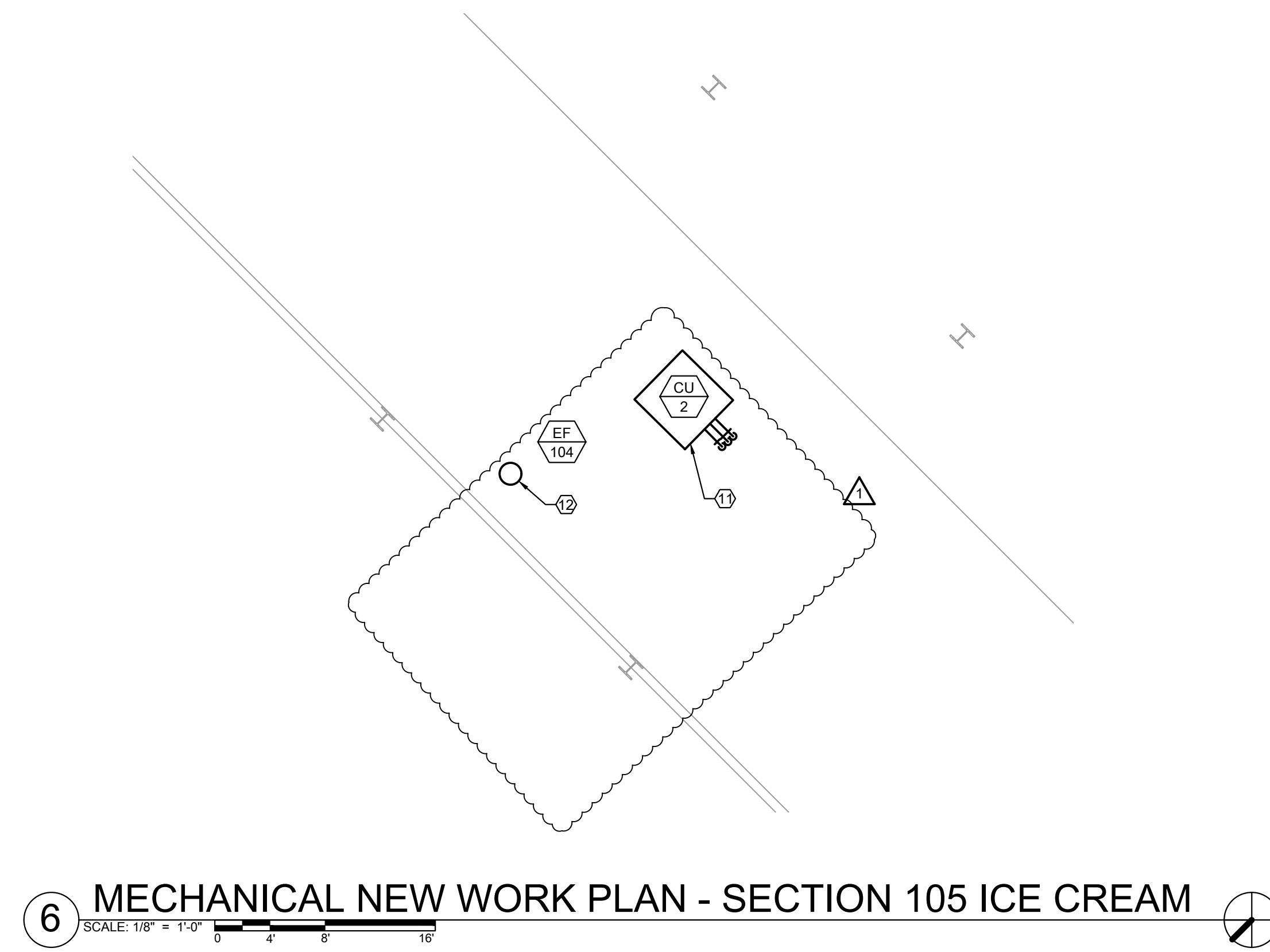
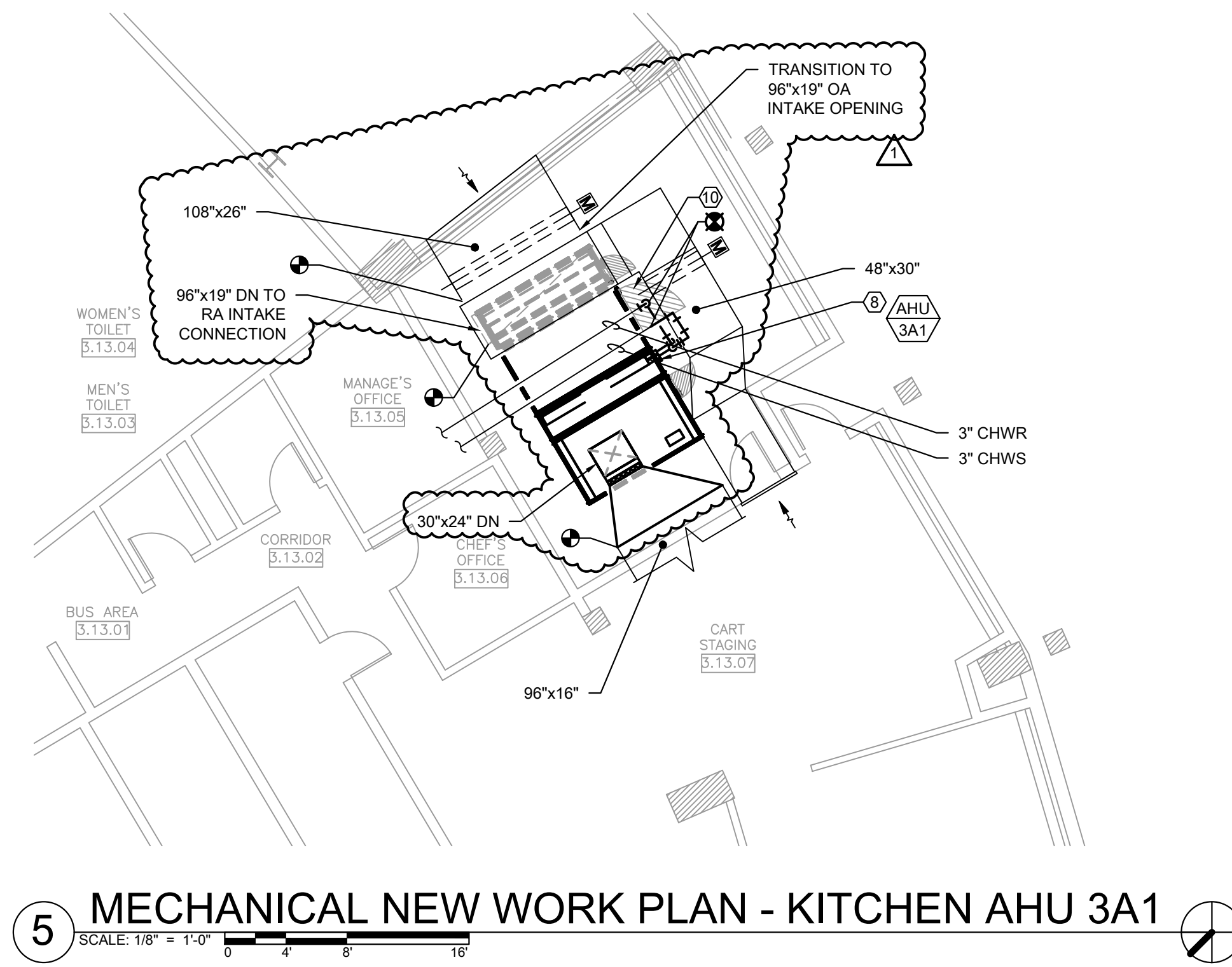
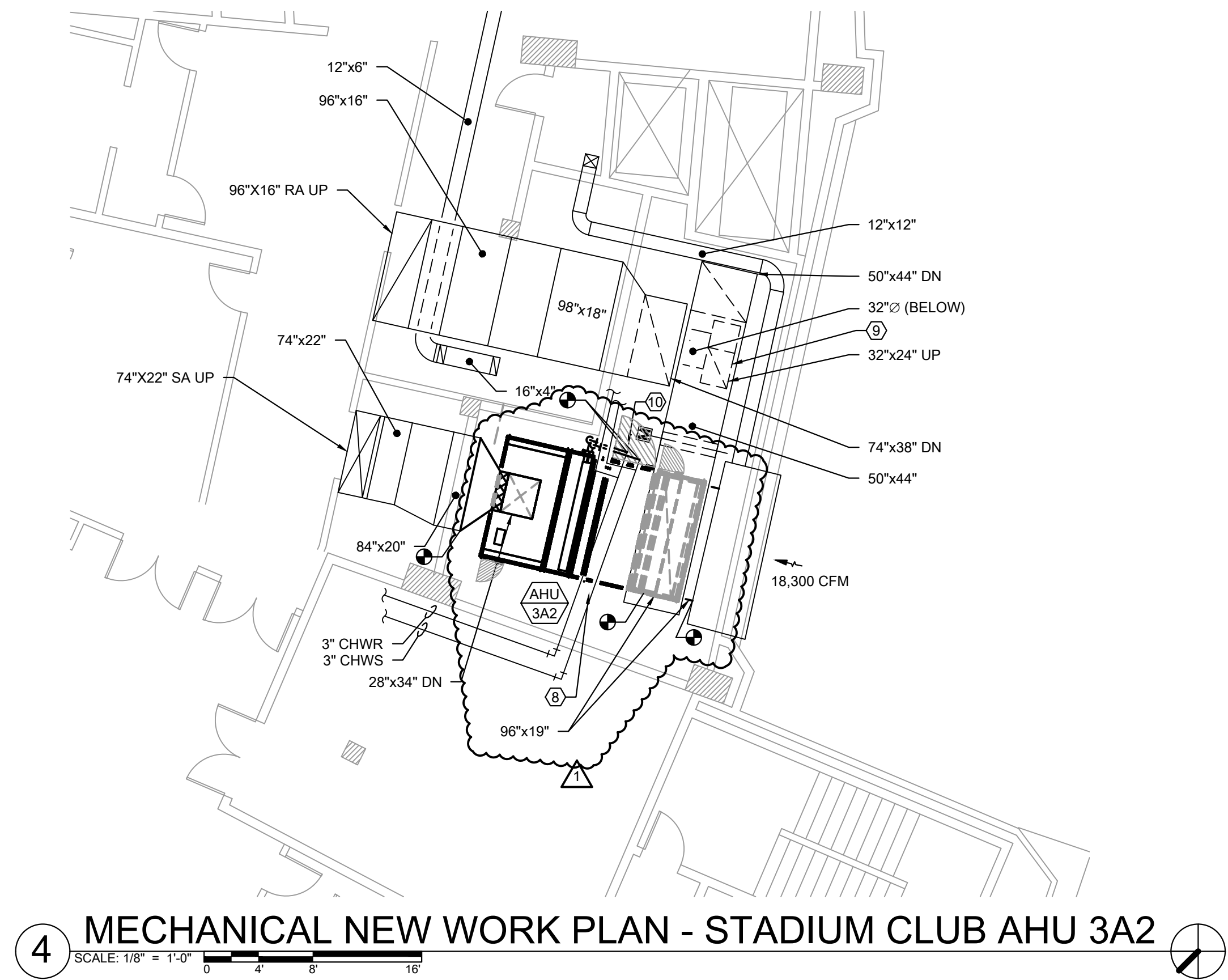
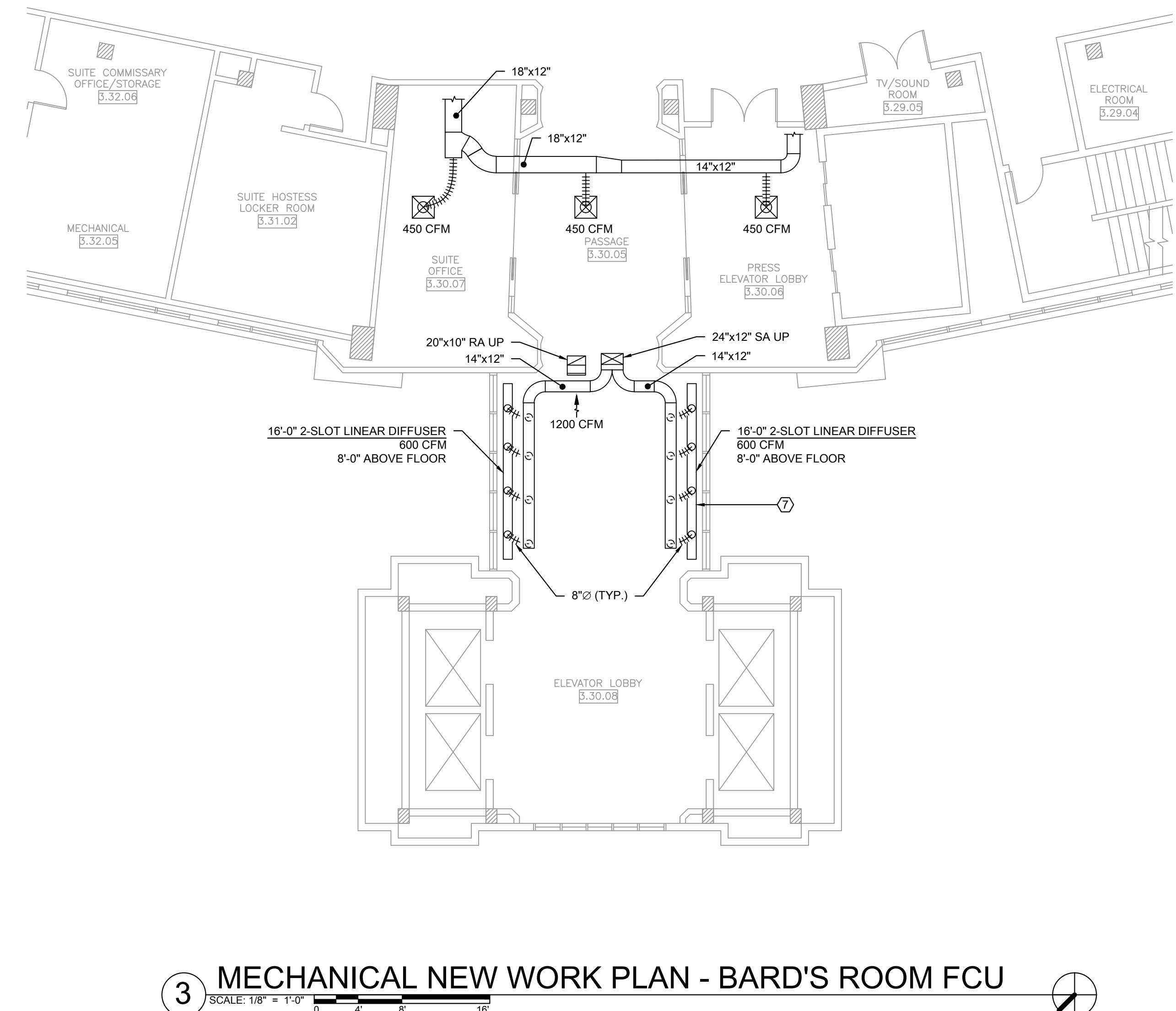
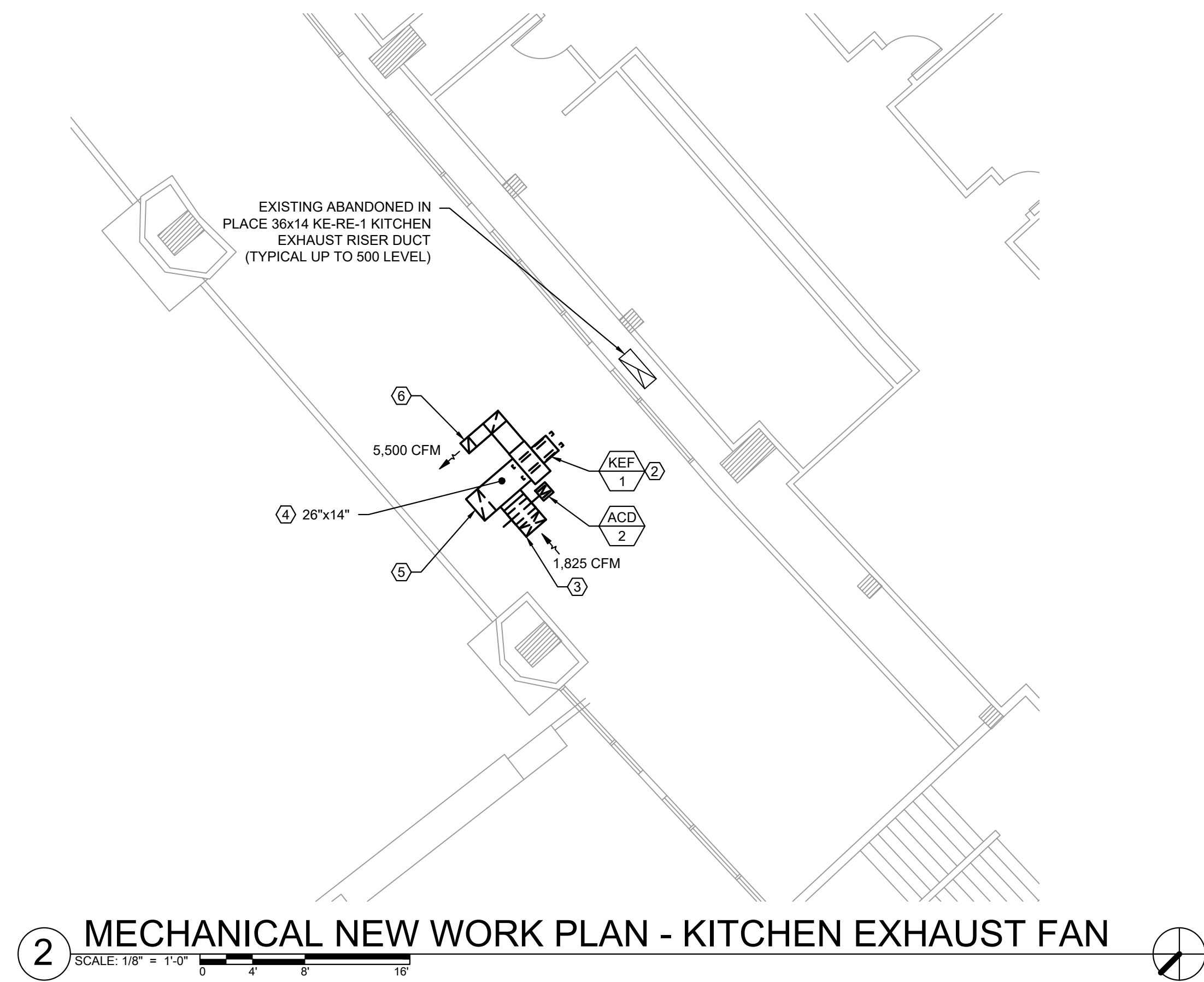
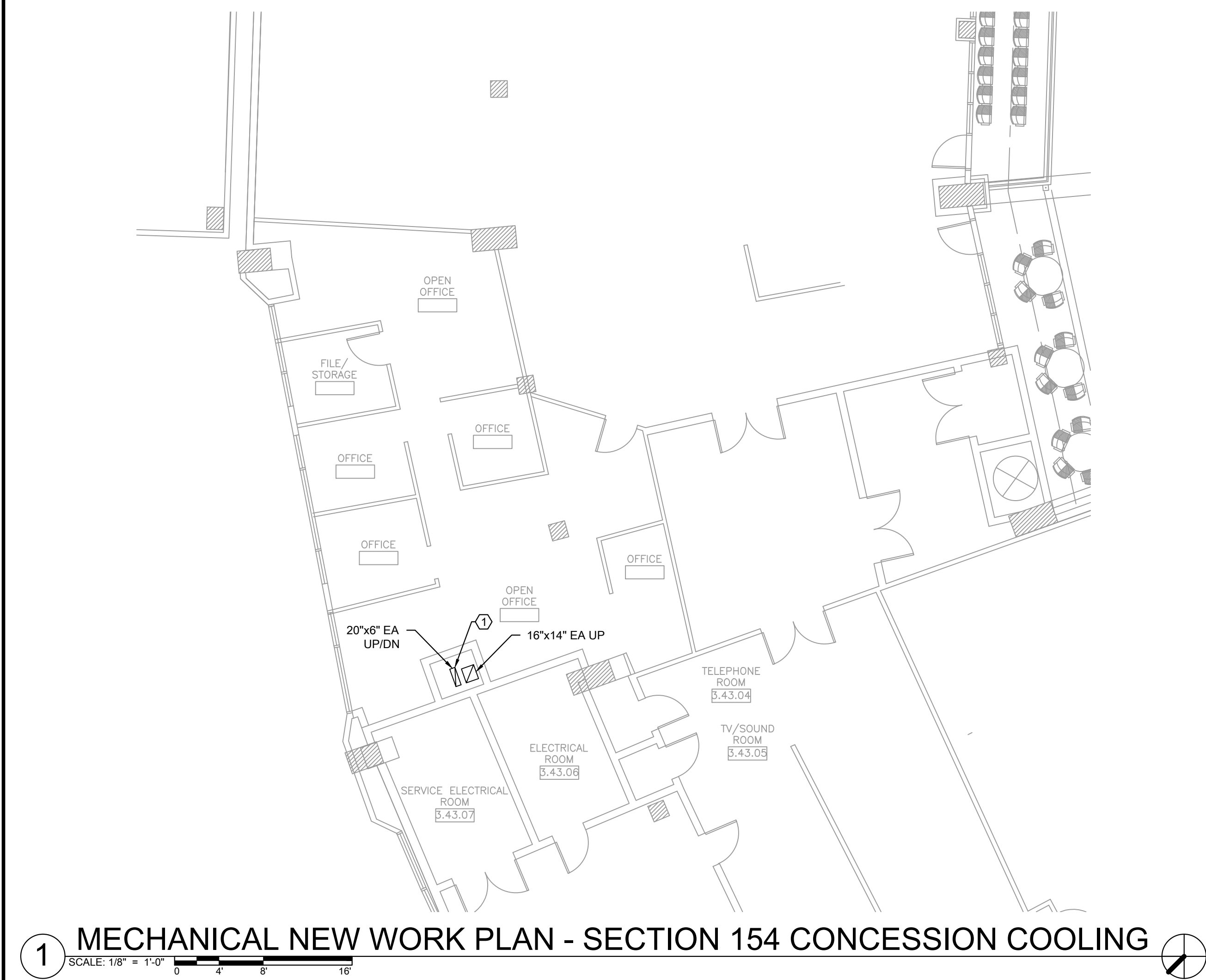
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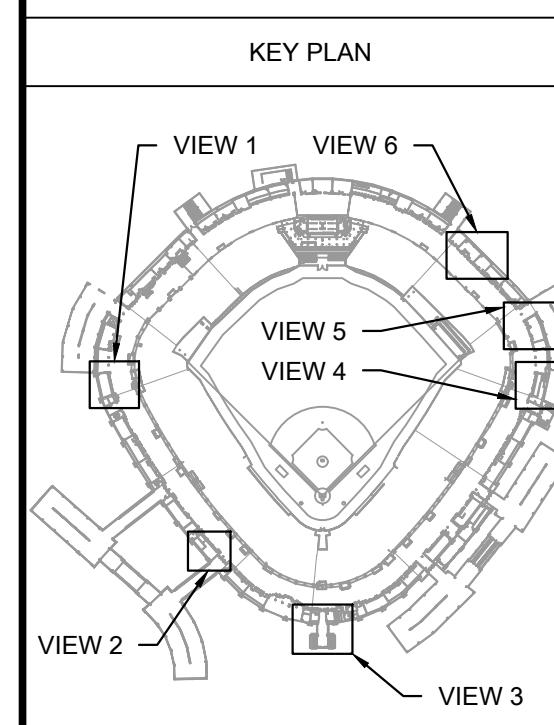
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M1.04





- KEYED MECHANICAL NEW WORK SHEET NOTES**
- CONCESSIONS EXHAUST DUCT SHOWN FOR REFERENCE.
  - NEW UTILITY SET KITCHEN EXHAUST FAN GREASE EXHAUST FAN. MOUNT ON NEW SUPPORT RAILS ON EXISTING ROOF. PROVIDE SAFE ACCESS AND A WORK SURFACE FOR INSPECTION AND CLEANING.
  - NEW 24"x24" DUCT WITH AUTOMATIC CONTROL DAMPER INTERLOCKED WITH OPERATION OF KEF-1. BALANCE DAMPER TO ALLOW 1825 CFM OF DILUTION AIR TO MIX WITH GREASE LADEN KITCHEN EXHAUST FROM BELOW WHEN FAN IS RUNNING. TERMINATE WITH ANGLED INLET TO PREVENT RAIN & SNOW INFILTRATION AND BIRD SCREEN. BOTTOM OF INTAKE OPENING SHALL BE A MINIMUM OF 24" ABOVE THE ROOF LEVEL.
  - CONNECT FULLY WELDED GREASE DUCT TO EXHAUST FAN WITH SECURELY BOLTED FLANGES & GASKET AS REQUIRED CODE.
  - NEW 26"x14" WELDED BLACK IRON KITCHEN EXHAUST DUCT DN FROM TYPE 1 HOODS BELOW. PROVIDE CURB RATED FOR HIGH TEMP EXHAUST. OPENING SHALL BE SEALED WEATHERTIGHT.
  - TERMINATE KEF-1 OUTLET UPWARD. OUTLET SHALL BE AT A MINIMUM OF 40" ABOVE ROOF LEVEL AS REQUIRED BY CODE. DIRECT PLUME AT A 45° ANGLE UP AND AWAY FROM ADJACENT BUILDING TO PREVENT ACCUMULATION OF SMOKE & GREASE ON STRUCTURE ABOVE.
  - DISTRIBUTION AND AIR OUTLETS ASSOCIATED WITH BARDS ROOM FCU SHOWN FOR REFERENCE ONLY. DUCTS ARE HIGH, TIGHT TO STRUCTURE AND INACCESSIBLE BEHIND DRYWALL CEILING.
  - INSTALL NEW AIR HANDLER IN LOCATIONS OF PREVIOUSLY DEMOLISHED UNIT. PROVIDE NEW DUCTWORK WITH INSULATION TO CONNECT EXISTING OUTSIDE AIR AND SUPPLY AIR DUCTS TO NEW UNIT INLET AND OUTLET. TIE EXISTING RETURN TO NEW OUTSIDE AIR DUCT.
  - DISASSEMBLE, CLEAN, AND PERFORM INSPECTION OF EXISTING RETURN FAN. REPLACE WORN COMPONENTS AND RELUBRICATE PER MANUFACTURERS RECOMMENDATIONS.
  - CONNECT NEW AHU CHILLED WATER COIL TO EXISTING PIPING DOWNSTREAM OF EXISTING CONTROL VALVE.
  - INSTALL NEW CONDENSING UNIT ASSOCIATED WITH ICE CREAM COOLING BELOW. PROVIDE NEW ROOF CURB AND PIPE PENETRATION PORTAL.
  - INSTALL NEW EXHAUST FAN SERVING ICE CREAM SERVING AREA BELOW. PROVIDE NEW ROOF CURB.
  - INSTALL NEW CONDENSING UNIT AND REFRIGERANT PIPING ASSOCIATED WITH PANTRY 4.20.1 COOLING UNIT ON LEVEL ABOVE. REFER TO M1.08 FOR CONTINUATION.
  - INSTALL NEW CONDENSING UNIT AND REFRIGERANT PIPING ASSOCIATED WITH STORAGE 4.22 COOLING UNIT ON LEVEL ABOVE. REFER TO M1.08 FOR CONTINUATION.



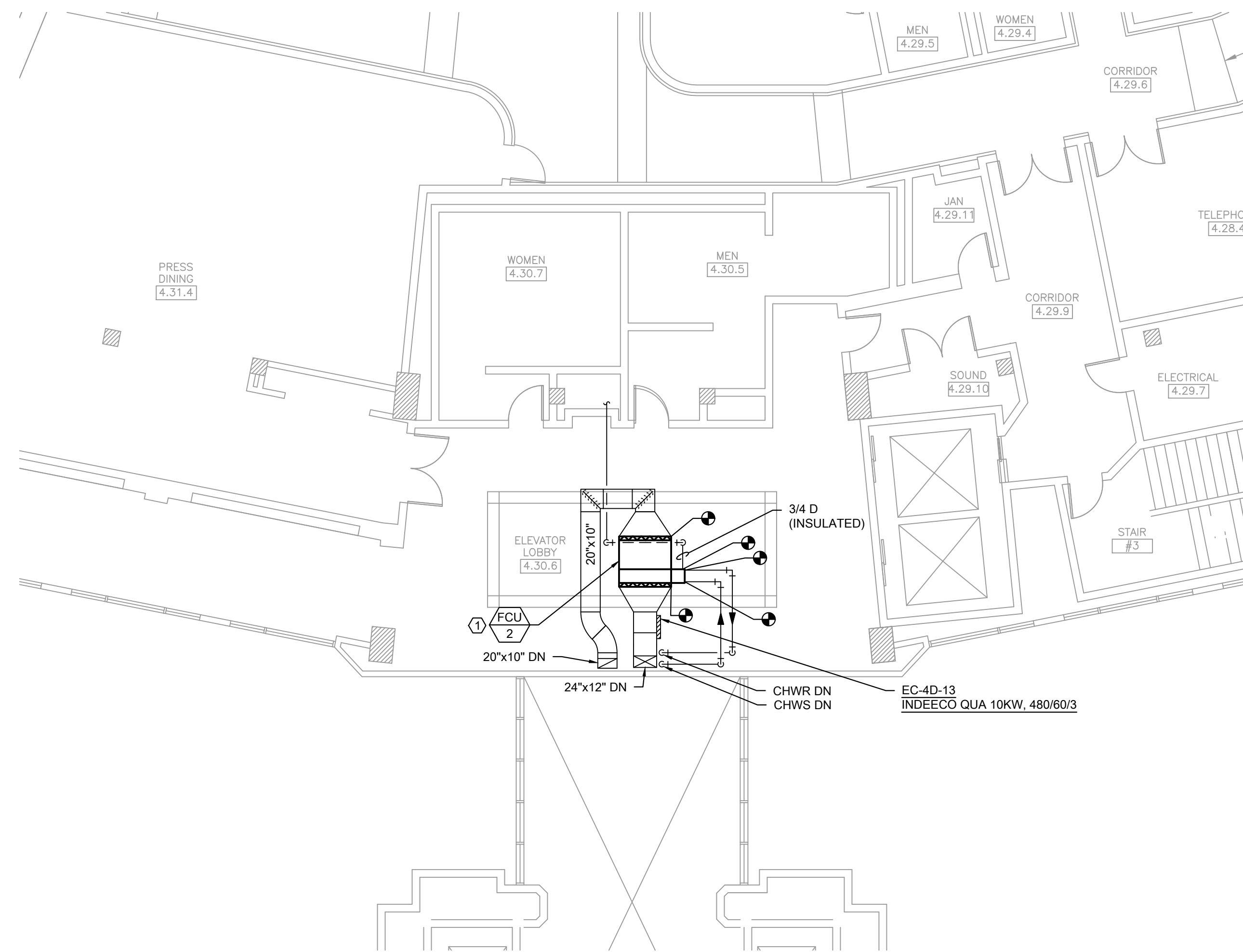
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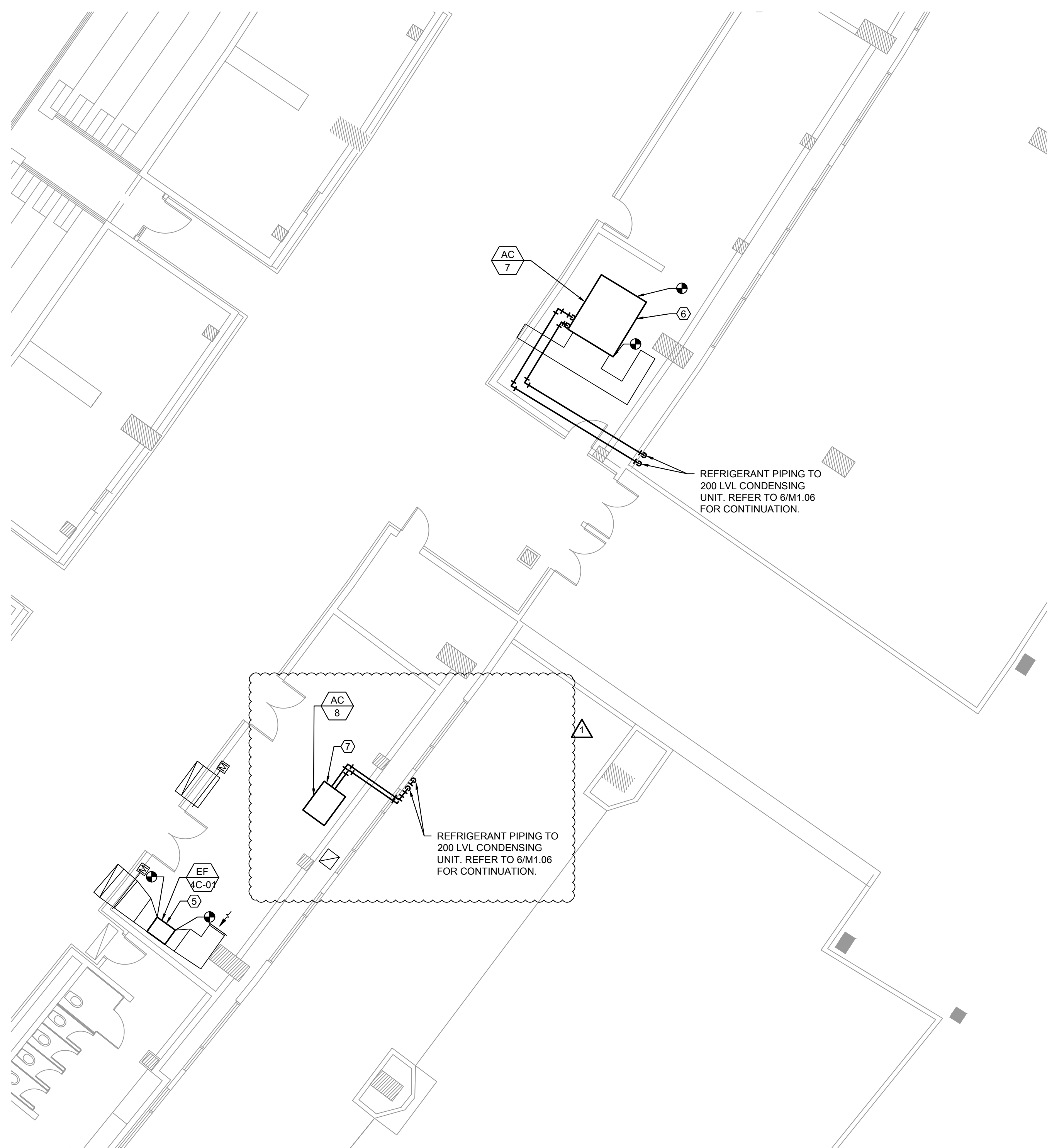
**PROJECT:**  
GUARANTEED RATE FIELD -  
HVAC REPLACEMENT PHASE XI  
333 W 35TH STREET,  
CHICAGO, ILLINOIS 60616

**DRAWING TITLE:**  
MECHANICAL NEW WORK  
PLANS - LEVEL 200 ENLARGED  
PLANS

**DESIGNED BY:** DA  
**CHECKED BY:** MS  
**PROJECT NO:** 21276  
**SCALE:** 1/8" = 1'-0"  
**SHEET NO.**



1 MECHANICAL NEW WORK PLAN - BARD'S ROOM FCU

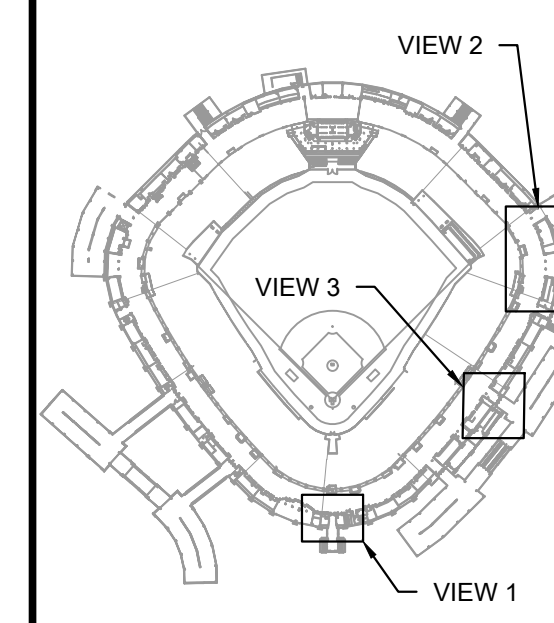


3 MECHANICAL NEW WORK PLAN - STORAGE 4.22 & PANTRY 4.20.1



2 MECHANICAL NEW WORK PLAN - STADIUM CLUB

KEYED MECHANICAL NEW WORK SHEET NOTES	
1.	INSTALL NEW FAN COIL UNIT ABOVE CEILING TO SERVE LOWER LEVEL ELEVATOR LOBBY. CONNECT TO EXISTING SUPPLY AND RETURN DUCTS AS WELL AS EXISTING CHILLED WATER PIPING AND CONDENSATE DRAIN LINE.
2.	TRASH CHUTE EXHAUST DUCT SHOWN FOR REFERENCE. DUCT TO BE CLEANED PRIOR TO INSTALLATION OF NEW EXHAUST FAN ON ROOF.
3.	AIR OUTLETS AND INLETS FOR AHU-3A-2 SHOWN FOR REFERENCE. SYSTEM TO BE BALANCED UPON COMPLETION OF INSTALLATION.
4.	DISHWASHER EXHAUST DUCT SHOWN FOR REFERENCE. DUCT BELOW TO BE REPAIRED AND DRAIN SECTION INSTALLED.
5.	INSTALL NEW EXHAUST FAN IN PLACE OF DEMOLISHED ONE. CONNECT TO EXISTING DUCTWORK WITH NEW FLEX CONNECTIONS AND TIE TO EXISTING CONTROLS INCLUDING MOTORIZED DAMPERS.
6.	INSTALL NEW DX DUCTED FAN COIL. CONNECT TO EXISTING SUPPLY AND RETURN DUCTS. ROUTE NEW INSULATED REFRIGERANT LINES OUT THROUGH EXISTING WALL PENETRATIONS AND DOWN TO NEW CONDENSING UNIT ON ROOF BELOW. REFER TO M1.06 FOR CONDENSING UNIT.
7.	INSTALL NEW DX DUCTED FAN COIL WITH FILTER BOX. ROUTE NEW INSULATED REFRIGERANT LINES OUT EXTERIOR WALL AND DOWN TO NEW CONDENSING UNIT ON ROOF BELOW. REFER TO M1.06 FOR CONDENSING UNIT.



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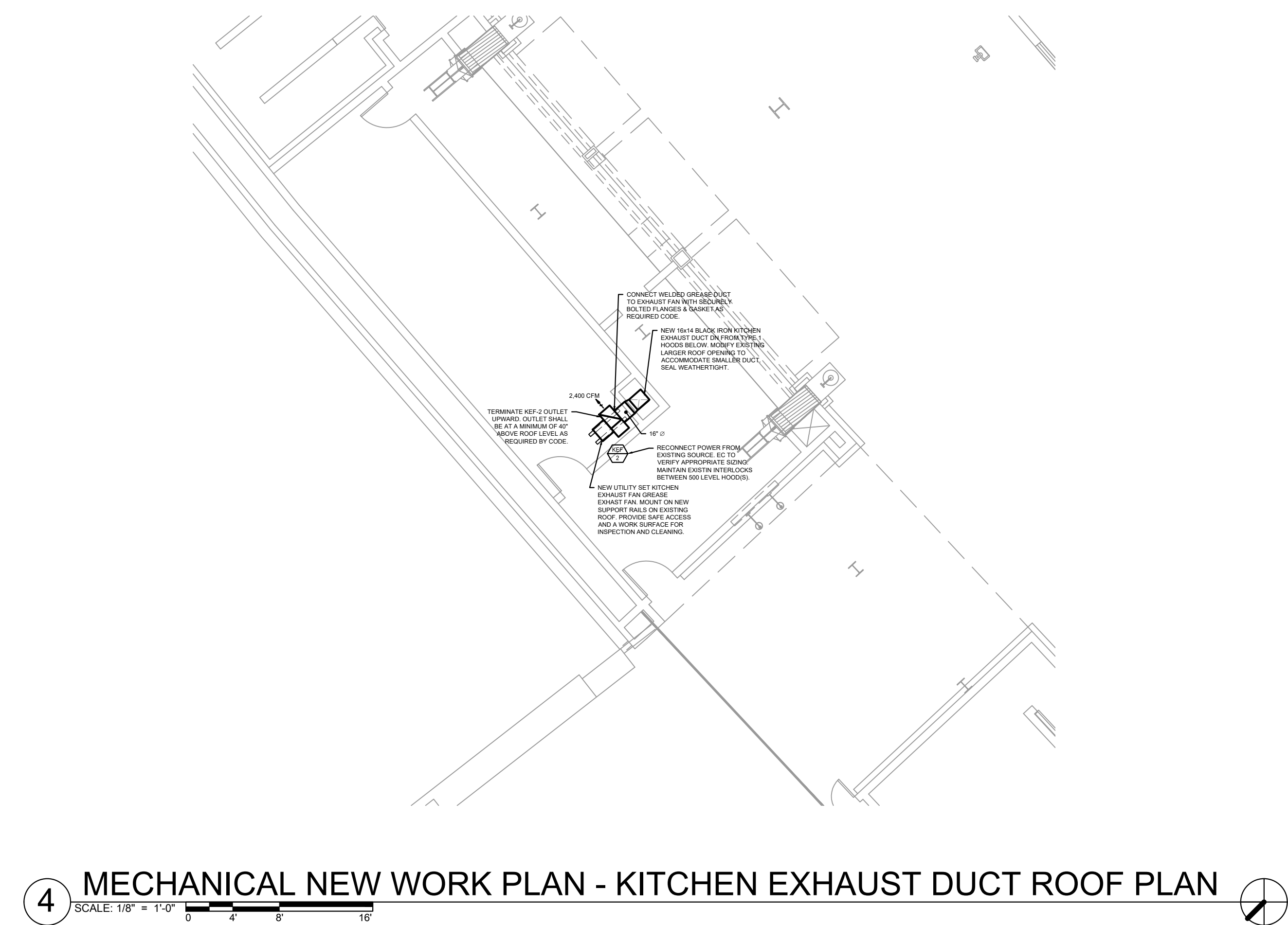
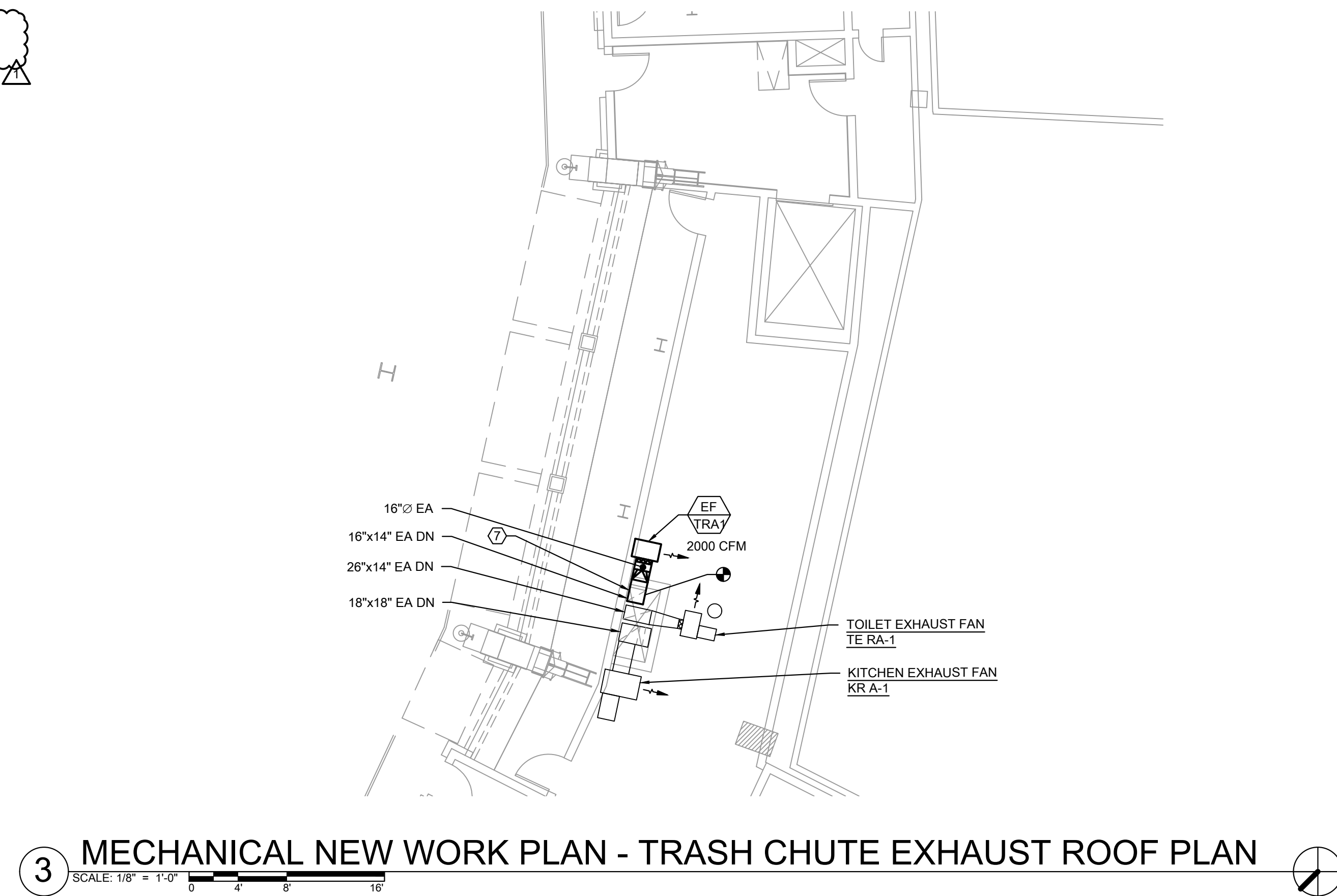
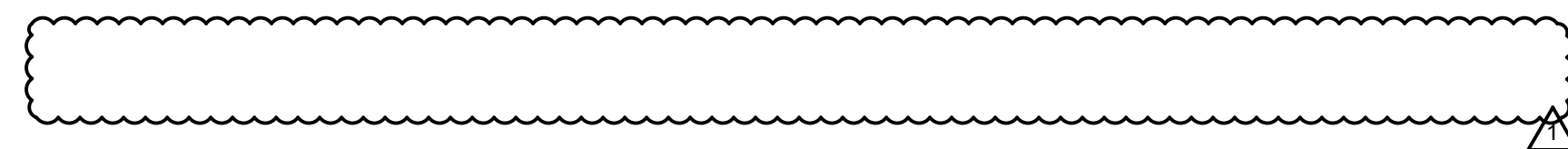
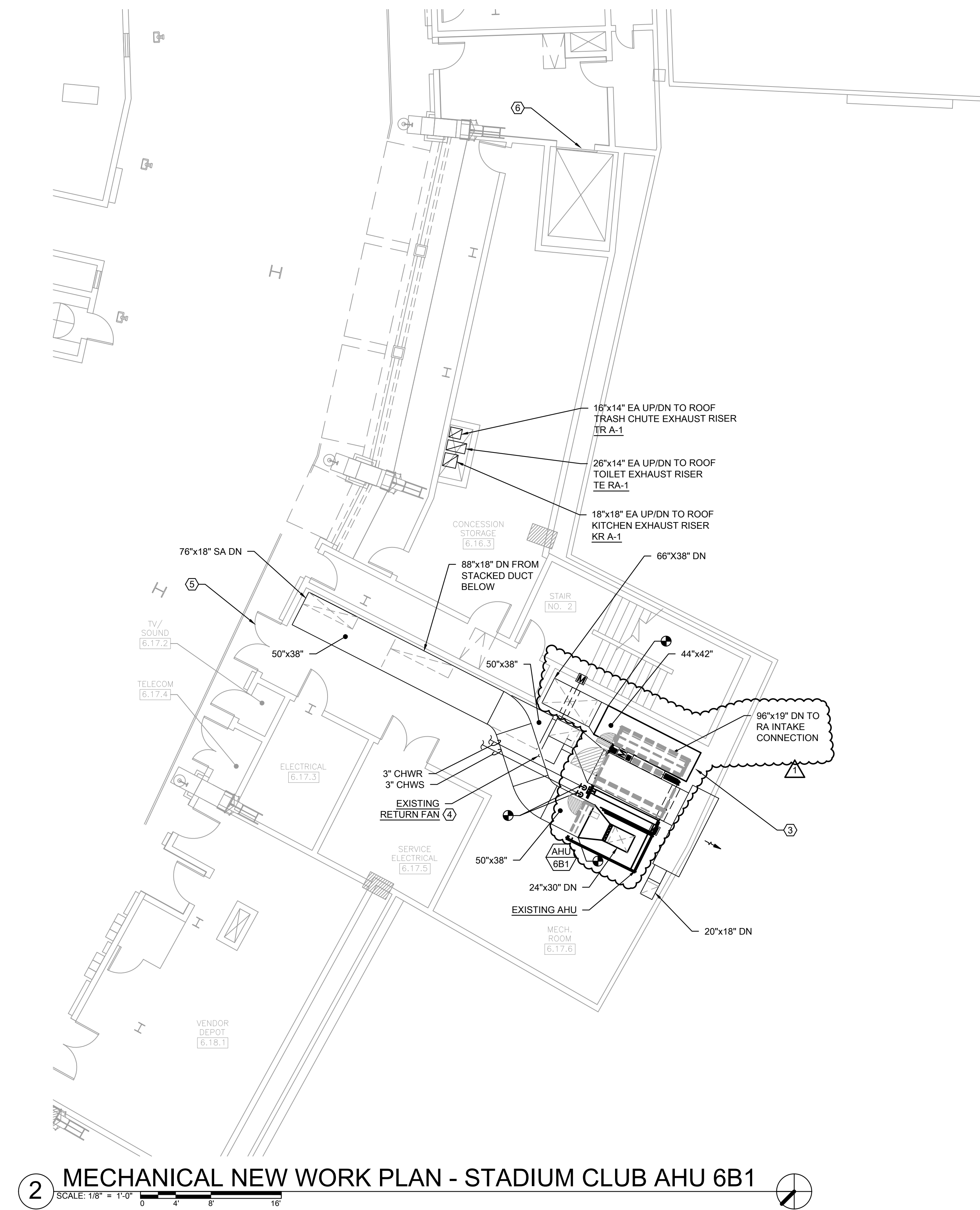
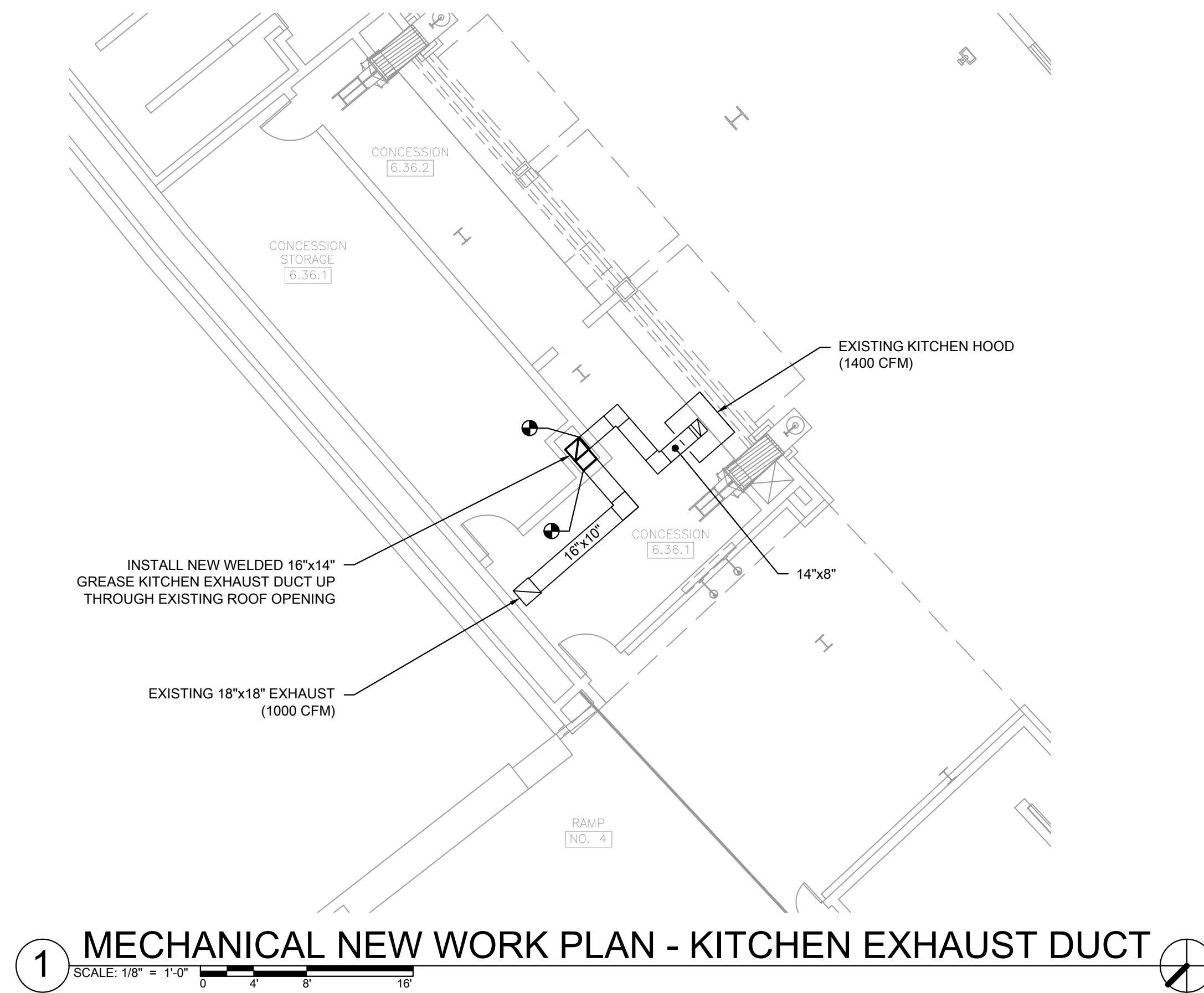
DRAWING TITLE:  
MECHANICAL NEW WORK  
PLANS - LEVEL 300  
ENLARGED PLANS

DESIGNED BY:	DA
CHECKED BY:	MS
PROJECT NO:	21276
SCALE:	1/8" = 1'-0"
SHEET NO.	

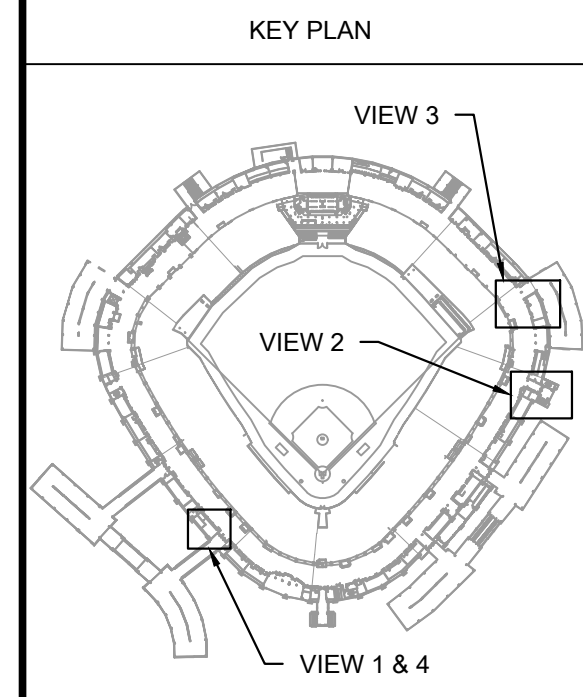




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KEYED MECHANICAL NEW WORK SHEET NOTES	
1.	VFD FOR NEW 1-1/2 HP KITCHEN EXHAUST FAN KEF-2. COORDINATE FINAL LOCATION WITH SPACE EQUIPMENT LAYOUT.
2.	CLEAN EXISTING TO REMAIN TYPE 1 HOOD DUCTWORK THOROUGHLY. PROVIDE NEW CLEANOUT AND ACCESS IF NOT CURRENTLY PRESENT.
3.	INSTALL NEW AIR HANDLER IN LOCATIONS OF PREVIOUSLY DEMOLISHED UNIT. PROVIDE NEW DUCTWORK WITH INSULATION TO CONNECT EXISTING OUTSIDE AIR AND SUPPLY AIR DUCTS TO NEW UNIT INLET AND OUTLET. TIE EXISTING RETURN TO NEW OUTSIDE AIR DUCT.
4.	DISASSEMBLE, CLEAN, AND PERFORM INSPECTION OF EXISTING RETURN FAN. REPLACE WORN COMPONENTS AND RELUBRICATE PER MANUFACTURERS RECOMMENDATIONS.
5.	DOUBLE DOORS CONNECTING MECHANICAL ROOM TO 500 LEVEL CONCOURSE IS RECOMMENDED FOR MECHANICAL EQUIPMENT INGRESS. UNIT SHALL REQUIRE SOME AMOUNT OF FIELD ASSEMBLY DUE TO LIMITED AREA OF ENTRY TO MECHANICAL SPACE.
6.	SERVICE ELEVATOR SUITABLE FOR SMALL EQUIPMENT INGRESS. FEATURES ACCESS ON ALL FLOORS. COORDINATE USE AND ANY REQUIRED LOCKOUTS WITH ISFA AND CHICAGO WHITE SOX.
7.	INSTALL NEW RADIUS ELBOW FITTING AND CONNECT TO EXISTING EXHAUST RISER SERVING TRASH CHUTE. SEAL AND LEAK TEST RISER TO CONFIRM INTEGRITY OF EXISTING DUCTWORK. CONNECT TO NEW ROOF MOUNTED UTILITY SET EXHAUST FAN.



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CHICAGO, ILLINOIS 60616

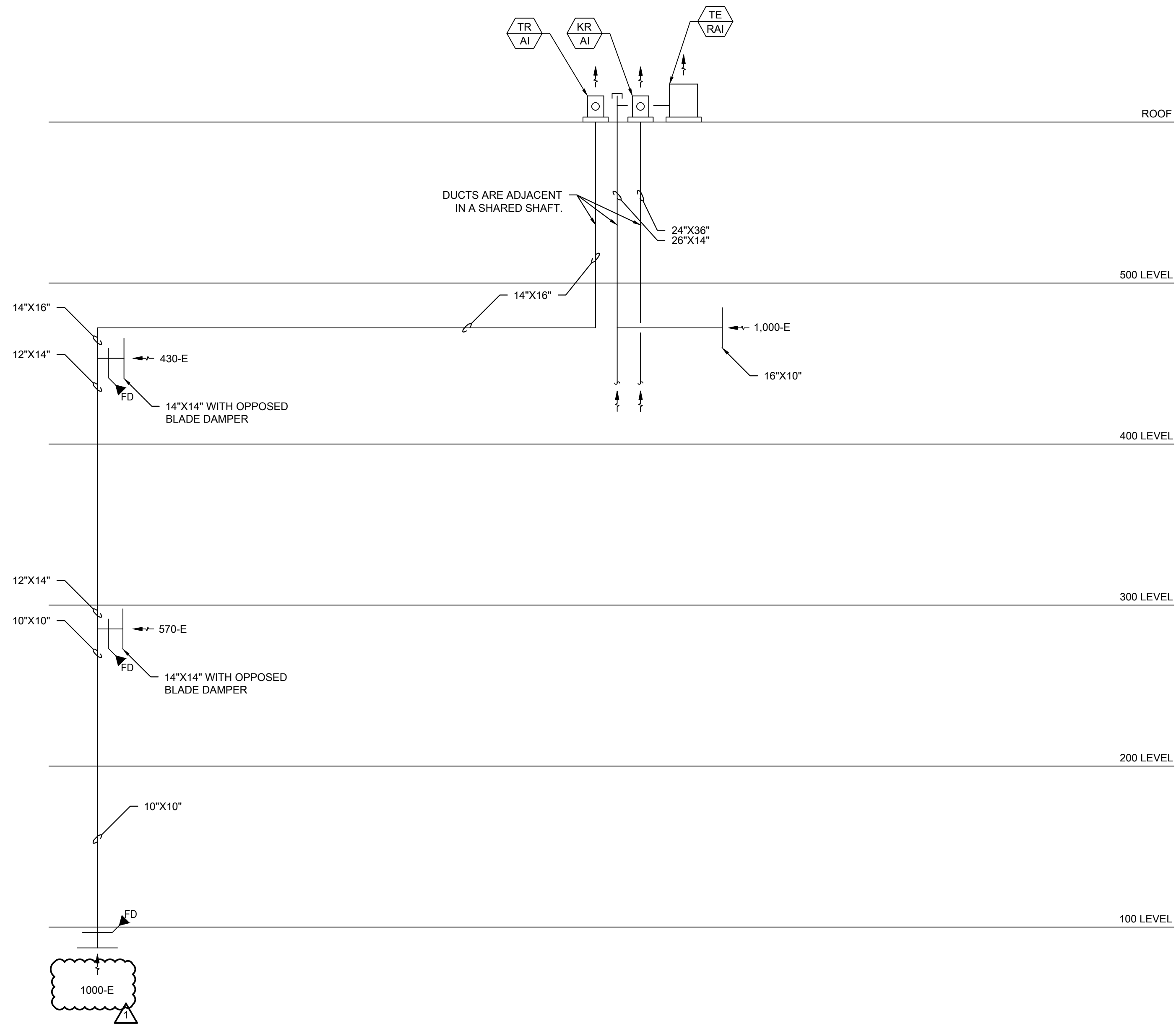
DRAWING TITLE:  
MECHANICAL NEW WORK  
PLAN - LEVEL 500 ENLARGED  
PLANS

DESIGNED BY:	DA
CHECKED BY:	MS
PROJECT NO:	21276
SCALE:	1/8" = 1'-0"
SHEET NO.	

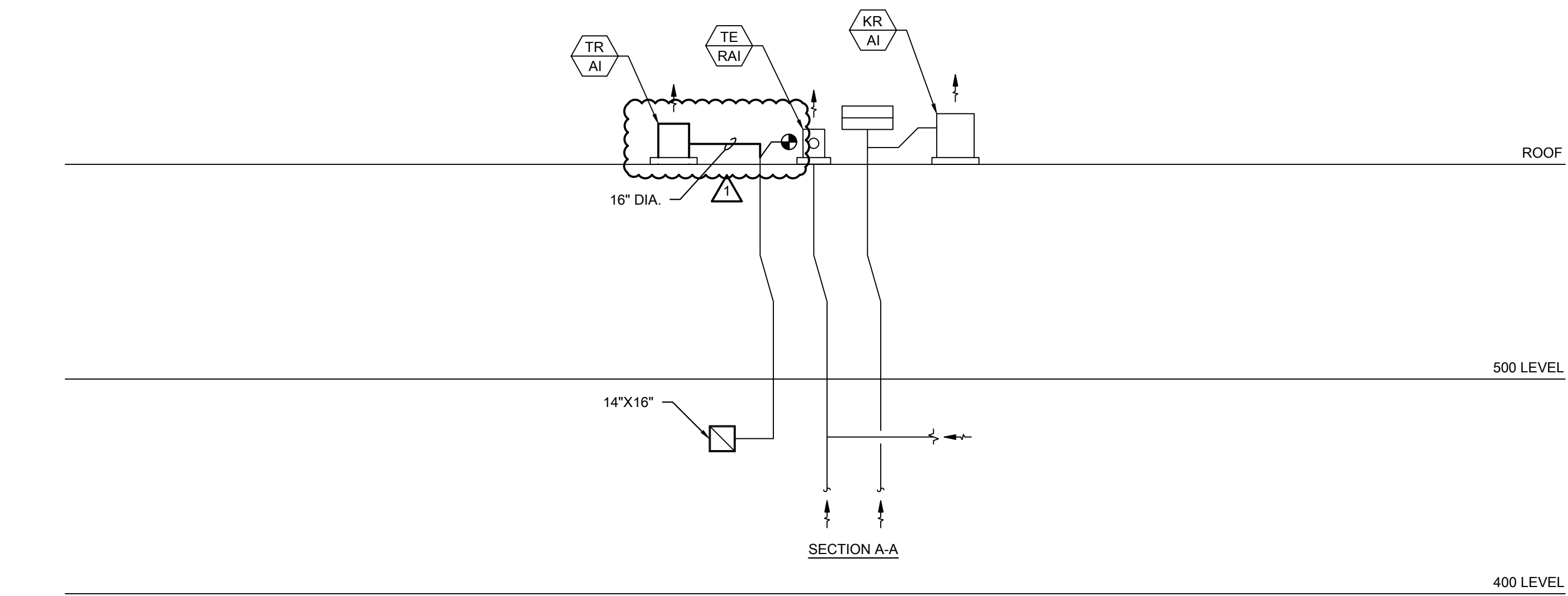
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M1.12

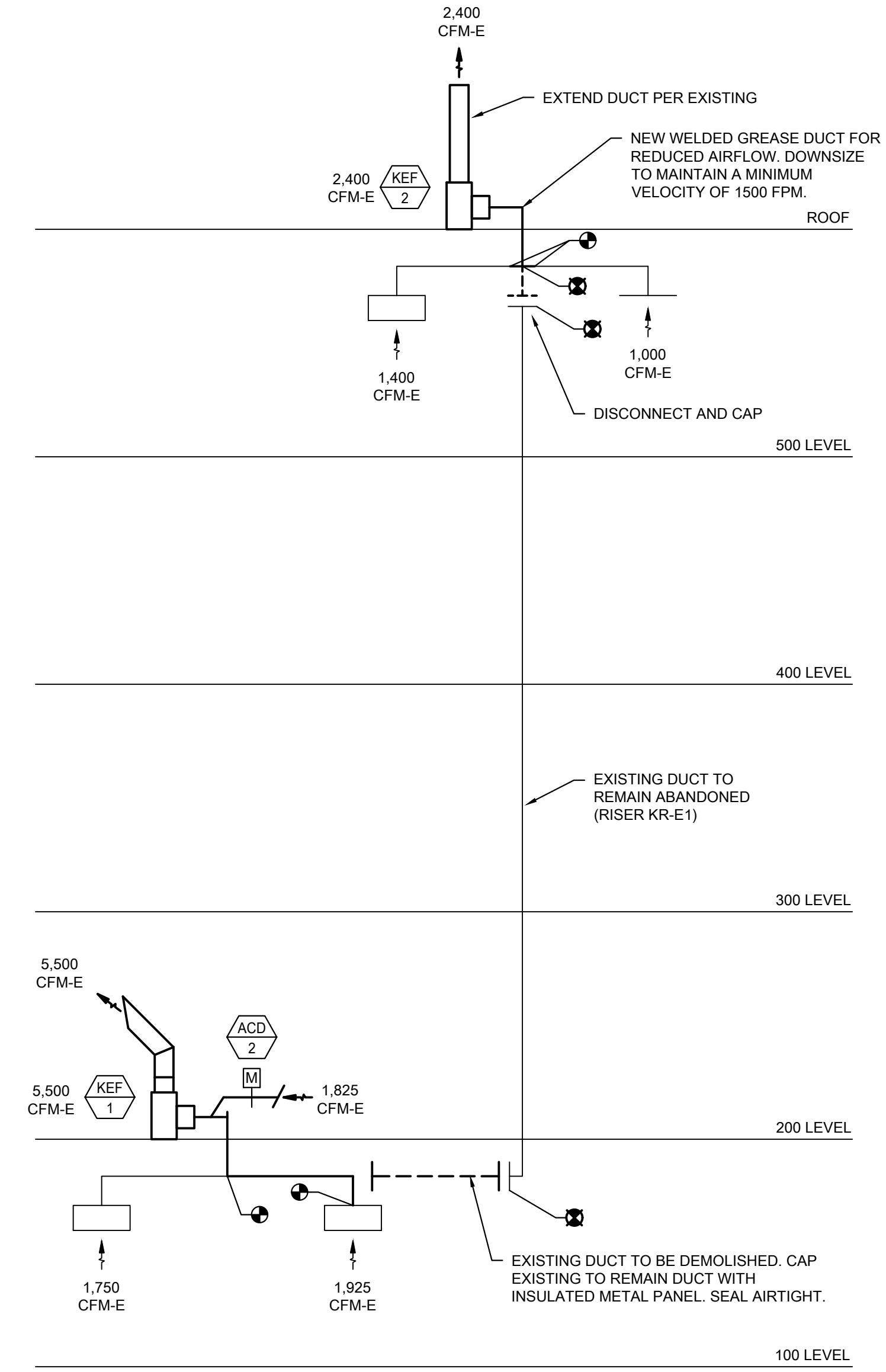




1 TR-AI RISER DIAGRAM  
SCALE: N.T.S.



1 TR-AI RISER DIAGRAM  
SCALE: N.T.S.



NOTE  
CONTRACTOR TO UTILIZE A TEST AND BALANCING SUB-CONTRACTOR TO PRE-TEST THE EXISTING MECHANICAL EQUIPMENT, INCLUDING ALL AIR INLETS AND OUTLETS TO CONFIRM AIRFLOW RATES PRIOR TO BEGINNING WORK. SUBMIT RESULTS TO THE ENGINEER OF RECORD FOR REVIEW.

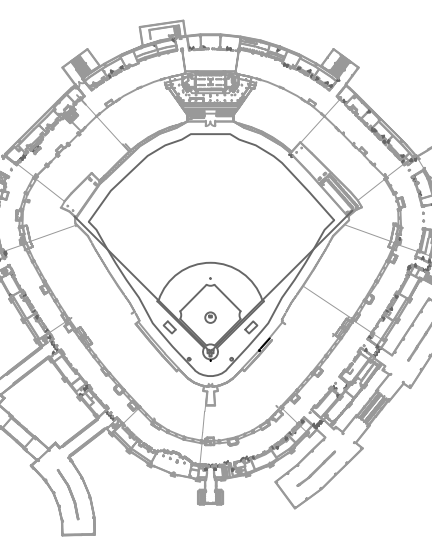
1 KITCHEN EXHAUST SCHEMATIC DIAGRAM  
SCALE: N.T.S.



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KEY PLAN



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GUARANTEED RATE FIELD -  
HVAC REPLACEMENT PHASE XI

333 W 35TH STREET,  
CHICAGO, ILLINOIS 60616

DRAWING TITLE:  
MECHANICAL SCHEMATICS

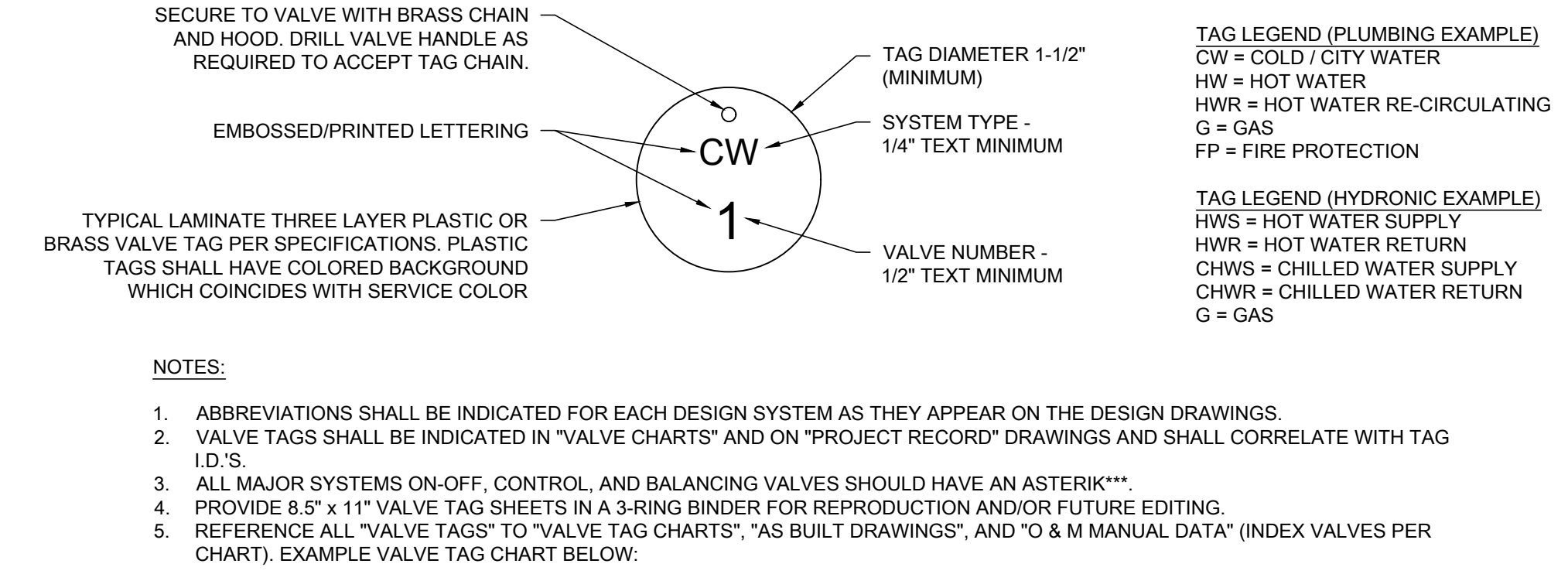
DESIGNED BY: DA  
CHECKED BY: MS  
PROJECT NO: 21276  
SCALE: NO SCALE

SHEET NO.

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M2.01

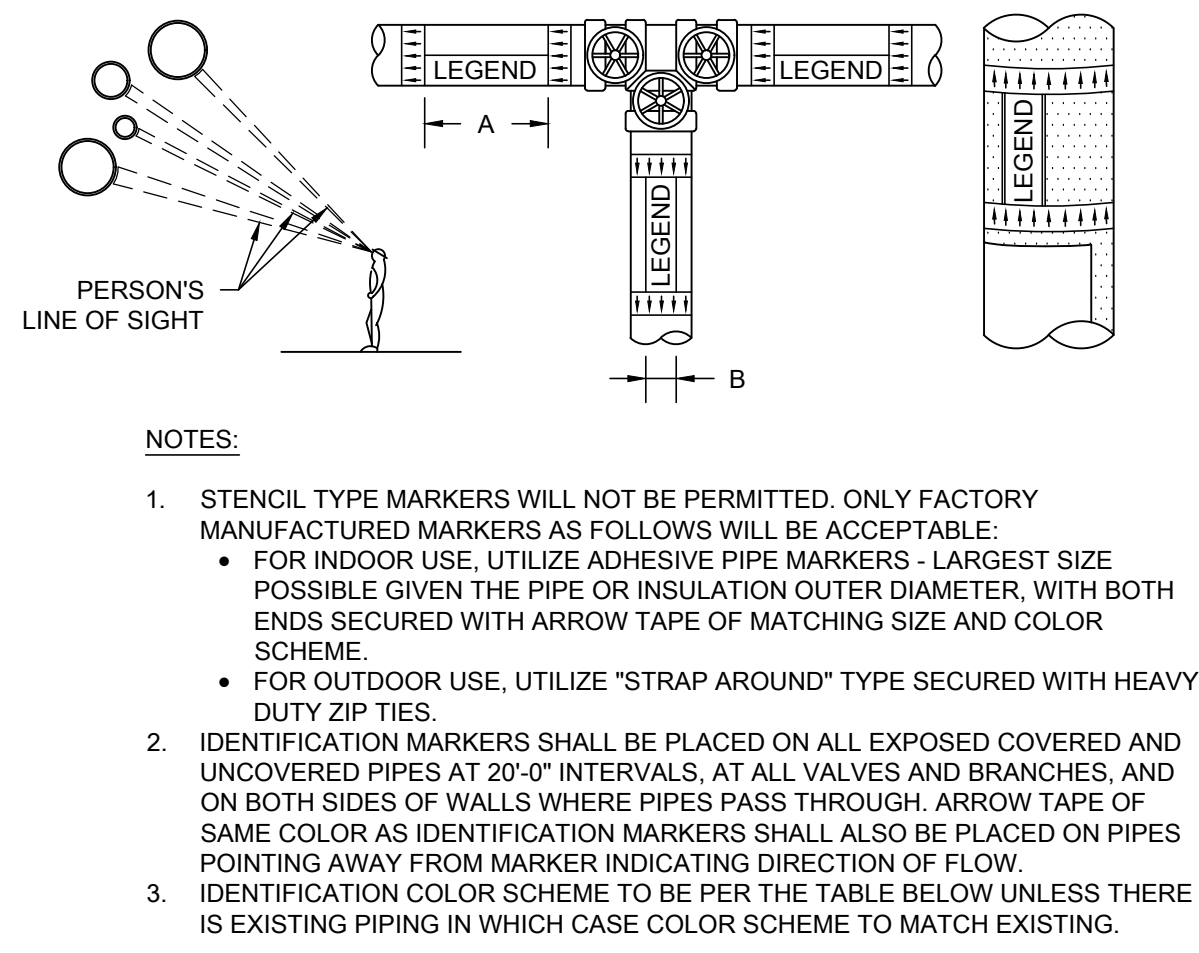




VALVE TAG #	LOCATION (ALSO SEE AS-BUILT DRAWINGS)	FUNCTION (WHAT IT DOES & WHAT/WHERE IT SERVICES)	TYPE	SIZE	MANUFACTURER	MODEL NUMBER
CW-1	RM. XXX - ABOVE CEILING	ON/OFF - FIXTURES IN RM. XXX & XXX.	BV	1"	BELL AND GOSSETT	XX-XXX-XX
CW-2	CORR. XXX - ABOVE DOOR @ RM. XXX	BALANCE - 2ND FLOOR, EAST SIDE, NORTH WING	BFV	1-1/2"	ALLEN BRADLEY	XX-XXX-XX
CW-3	BOILER RM. XXX - NE CORNER	ON/OFF - MAIN - BLDGS X, Y, & Z	GV	8"	BELL AND GOSSETT	XX-XXX-XX
CW-4	RM. XXX - BEHIND N. ACCESS PANEL	ON/OFF - EXTERIOR FIELD HOUSE - IRRIGATION	BV	3"	M & M	XX-XXX-XX
CW-5	RM. XXX - ABOVE CEILING	ON/OFF - MIXING VALVE - EYEWASH	BV	1"	GTM & S	XX-XXX-XX

## 1 VALVE TAG AND VALVE CHART DETAIL

SCALE: NO SCALE

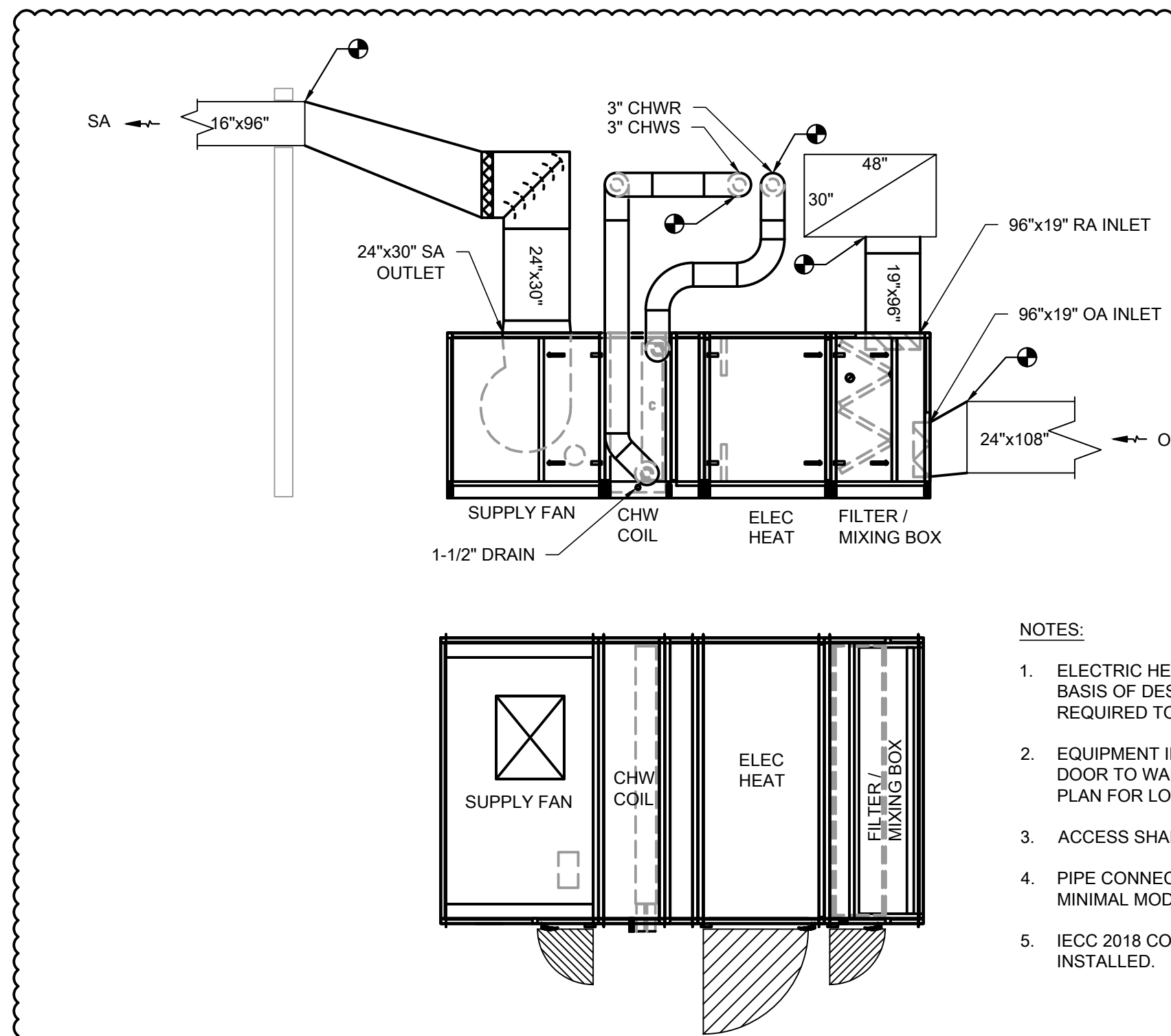


SIZE OF LEGEND LETTERS		
OUTSIDE DIAMETER OF PIPE OF COVERING	LENGTH OF COLOR FIELD "A"	SIZE OF LETTERS "B"
3/4" TO 1-1/4"	8"	1/2"
1-1/2" TO 2"	8"	3/4"
2-1/2" TO 6"	12"	1-1/4"
8" TO 10"	24"	2-1/2"
OVER 10"	32"	3-1/2"

PLAN TAG	SERVICE	IDENTIFICATION MARKER
CHWR	CHILLED WATER RETURN	WHITE LETTERING ON GREEN BACKGROUND
CHWS	CHILLED WATER SUPPLY	WHITE LETTERING ON GREEN BACKGROUND
CW	DOMESTIC COLD WATER (CITY WATER)	WHITE LETTERING ON GREEN BACKGROUND
CWR	CONDENSER WATER RETURN	WHITE LETTERING ON GREEN BACKGROUND
CWS	CONDENSER WATER SUPPLY	WHITE LETTERING ON GREEN BACKGROUND
DTR	DUAL TEMPERATURE RETURN	BLACK LETTERING ON YELLOW BACKGROUND
DTs	DUAL TEMPERATURE SUPPLY	BLACK LETTERING ON YELLOW BACKGROUND
G	NATURAL GAS	BLACK LETTERING ON YELLOW BACKGROUND
QWR	GEOTHERMAL WATER RETURN	BLACK LETTERING ON YELLOW BACKGROUND
QWS	GEOTHERMAL WATER SUPPLY	BLACK LETTERING ON YELLOW BACKGROUND
MU	MAKE-UP WATER	WHITE LETTERING ON GREEN BACKGROUND
HWR	HOT WATER RETURN	BLACK LETTERING ON YELLOW BACKGROUND
HWS	HOT WATER SUPPLY	BLACK LETTERING ON YELLOW BACKGROUND

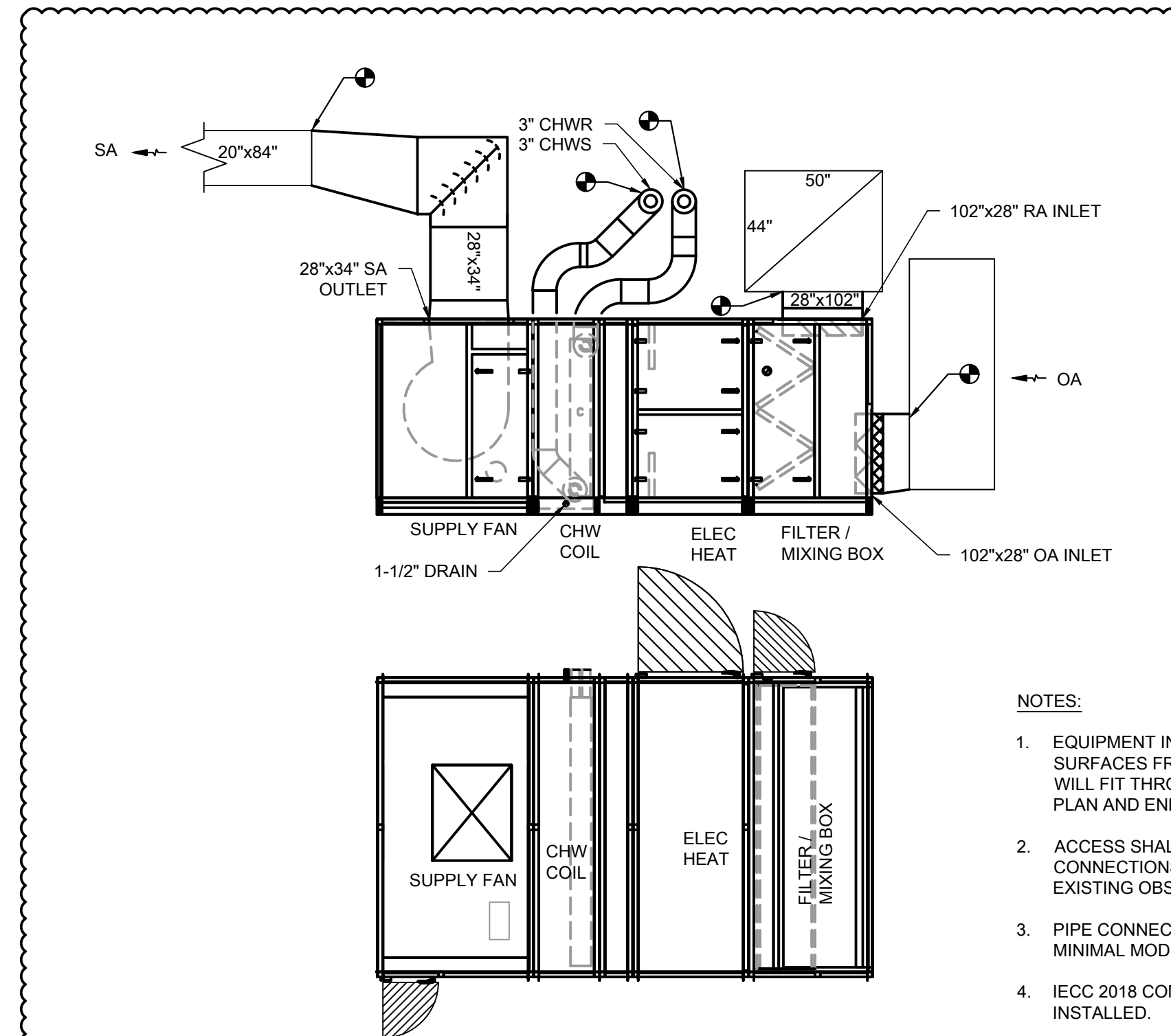
## 2 TYPICAL PIPE IDENTIFICATION MARKER DETAIL

SCALE: NO SCALE



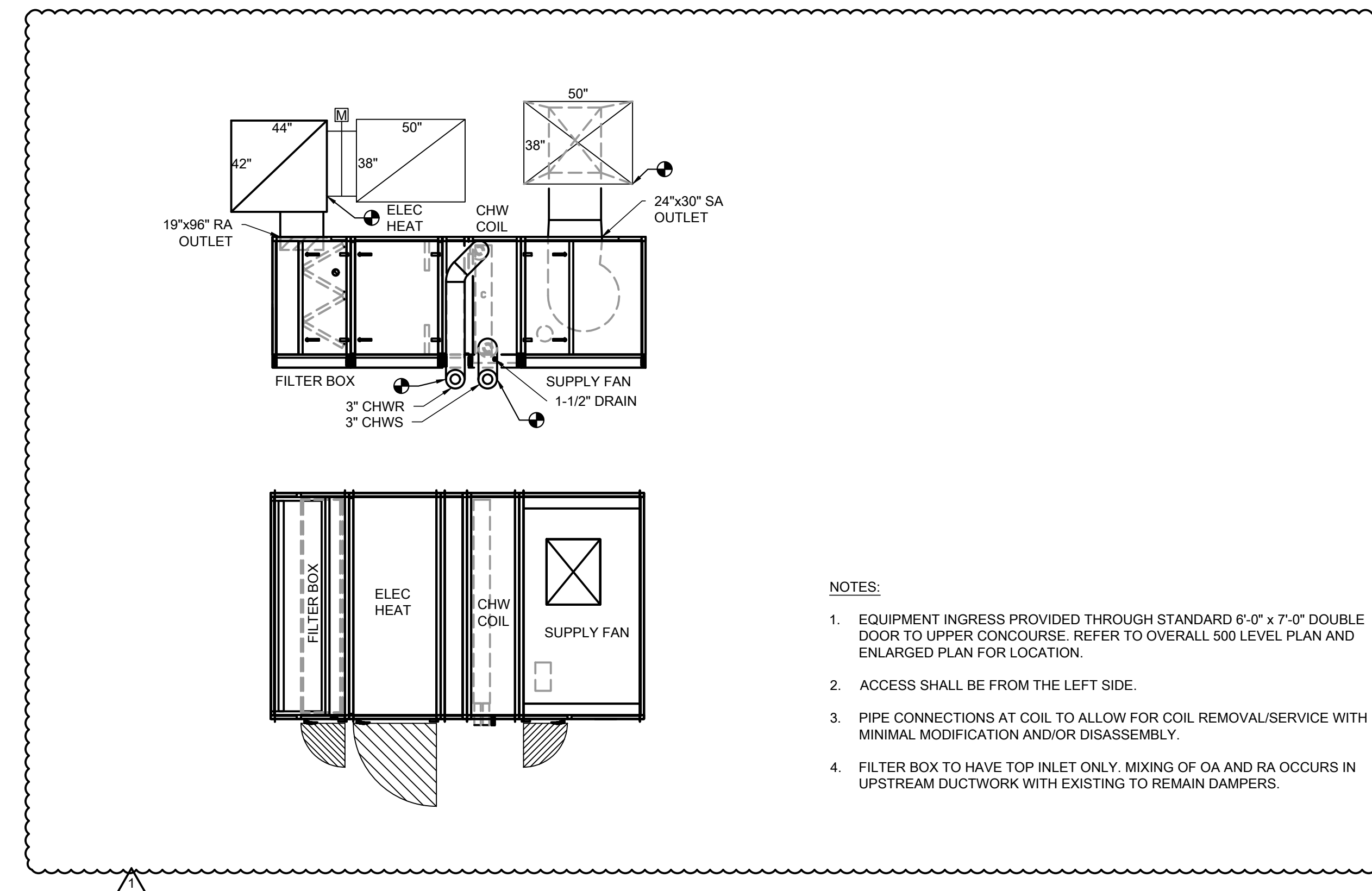
## 3 AHU 3A1 DETAIL

SCALE: NO SCALE



## 4 AHU 3A2 DETAIL

SCALE: NO SCALE



## 5 AHU 6B1 DETAIL

SCALE: NO SCALE

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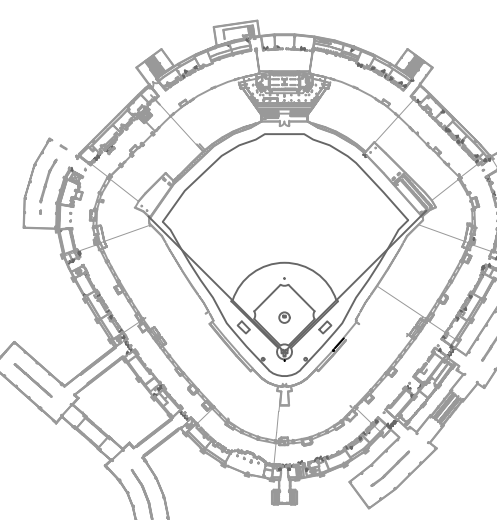
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PROJECT:  
GUARANTEED RATE FIELD -  
HVAC REPLACEMENT PHASE XI

333 W 35TH STREET,  
CHICAGO, ILLINOIS 60616

DRAWING TITLE:  
MECHANICAL DETAILS

DESIGNED BY: DA  
CHECKED BY: MS  
PROJECT NO: 21276  
SCALE: NO SCALE

SHEET NO.

M3.03



NOTES:	
1. MANUFACTURER PROVIDED 1 YEAR WARRANTY ON ENTIRE UNIT, AND 5 YEAR PARTS ONLY COMPRESSOR WARRANTY.	8. ELECTRIC HEAT
2. MANUFACTURER CERTIFIED START-UP.	9. FACTORY MOUNTED AND WIRED NON-FUSED DISCONNECT SWITCH.
3. MODULATING POWER EXHAUST.	10. PROVIDE BACNET COMPATIBLE SPACE TEMPERATURE SENSOR / THERMOSTAT WITH SETPOINT ADJUSTMENT.
4. CLOSSED FILTER SWITCH.	11. SINGLE POINT POWER CONNECTION.
5. STAINLESS STEEL DRINK PAN.	12. CONDENSER COIL W/AL GUARDS.
6. R-13 DOUBLE WALL CONSTRUCTION.	13. PROVIDE (1) EXTRA SET OF FILTERS FOR OWNERS STOCK.
7. PROVIDE INSULATED CURB ADAPTER FOR CONVERSION FROM Y24 UNIT LAYOUT ON EXISTING CURB.	14. OUTDOOR AIR INTAKE HOOD.
	15. FACTORY MOUNTED CONVENIENCE OUTLET, WIRED BY E.C.

NOTES
1. FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.
2. PROVIDE 14" HIGH PREFABRICATED, INSULATED, ROOF CURB WITH COUNTERFLASHING CURB CAP.
3. ALUMINUM BIRD SCREEN.
4. MOTORIZED BACKDRAFT DAMPER SHIPPED LOOSE TO BE INSTALLED BY MC AND WIRED BY EC. PROVIDE TRANSFORMER AS REQUIRED.
5. MOTOR COVER/BLT GUARD.
6. PROVIDE 1 SERIAL SET OF BELTS FOR OWNERS ATTIC STOCK.
7. VIBRATION ISOLATION KIT FURNISHED LOOSE BY MANUFACTURER TO BE INSTALLED BY MC.
8. NEMA PREMIUM EFFICIENCY MOTOR WITH SHAFT GROUNDING RING.
9. ECM FAN WITH SINGLE 0-10V CONTROLLER FACTORY MOUNTED ON FAN.
10. FAN SHALL BE CONTROLLED BY SPACE TEMPERATURE SENSITIVE THERMOSTAT FURNISHED AND WIRED BY BASC.
11. FAN SHALL BE CONTROLLED BY TIME CLOCK, FURNISHED AND INSTALLED BY EC.
12. ACCEPTABLE ALTERNATE MANUFACTURERS: COOK, TWIN CITY.

NOTES:	
1.	PROVIDE WITH BLANK SECTION IN LIEU OF FACTORY INSTALLED HEAT. BASIS OF DESIGN UNIT REQUIRES A SEPARATE HEATING COIL SECTION PROVIDED BY ANOTHER SUPPLIER. REFER TO DETAILS AND ELECTRIC HEATING COIL SCHEDULE.
2.	2" FOAM INJECTED DOUBLE WALL CONSTRUCTION. R-13 MINIMUM WITH THERMALLY BROKEN PANELS.
3.	PANEL DEFLECTION SHALL NOT EXCEED 1/40" OF DESIGN STATIC PRESSURE. MINIMUM 1/4" INCHES OF POSITIVE OR 1/8" INCHES OF NEGATIVE STATIC PRESSURE. DEFLECTION SHALL BE MEASURED AT THE PANEL MIDPOINT.
4.	CASING LEAKAGE RATE SHALL NOT EXCEED 1/50 CFM PER SQUARE FOOT OF CASING SURFACE AREA AT DESIGN STATIC PRESSURE UP TO A MAXIMUM OF 5 INCHES POSITIVE PRESSURE SECTIONS AND 4 INCHES IN NEGATIVE PRESSURE SECTIONS.
5.	MULTI-SLOPED STAINLESS STEEL DRAIN PANS UNDER ANY COIL WITH EXPECTED SUPPLY WATER TEMPERATURE BELOW 70°F. COILS STACKED VERTICALLY SHALL BE PROVIDED WITH INTERMEDIATE DRAIN PANS.
6.	UNITS SHALL BE MOUNTED ON EXISTING 4" HOUSEKEEPING PADS.
7.	FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.
8.	BACNET INTERFACE.
9.	REFER TO HYDRONIC COIL SCHEDULE FOR FURTHER INFORMATION.
10.	INTEGRAL ENERGY RECOVERY DEVICE. REFER TO ENERGY RECOVERY DEVICE SCHEDULE FOR FURTHER INFORMATION.
11.	FACTORY INSTALLED LOW LEAKAGE BYPASS DAMPERS FOR SUPPLY AND RETURN AROUND ENTHALPY WHEEL.
12.	MANUFACTURER CERTIFIED START-UP.
13.	SINGLE POINT POWER CONNECTION.
14.	PROVIDE (1) EXTRA SET OF FILTERS FOR OWNERS STOCK.
15.	ACCEPTABLE ALTERNATE MANUFACTURERS: AAO, CARRIER, DAKIN, TRANE, YORK.

NOTES	
1.	FAN SHALL BE CONSTRUCTED OF CARBON STEEL NOT LESS THAN 0.050" IN THICKNESS, OR STAINLESS STEEL NOT LESS THAN 0.040" IN THICKNESS.
2.	PROVIDE WITH ACCESS OPENING IN OUTER FAN HOUSING FOR CLEANING AND INSPECTION OF THE FAN BLADES PER NFPA 99.
3.	PROVIDE WITH FLANGE AT INLET FOR SECURELY BOLTED CONNECTION TO WELDED GREASE DUCT PER NFPA 99.
4.	PROVIDE VISIBLE GREASE RECEPTACLE NOT TO EXCEED 1 GALLON FOR DIRECT CONNECTION TO EXHAUST FAN GREASE DRAIN.
5.	FAN MOTOR MUST BE LOCATED OUTSIDE OF THE AIRSTREAM.

**NOTES:**

1. CONTRACTOR SHALL VERIFY BORDER TYPE INCLUDING FRAME, FLANGE, AND SECURING METHOD IN EACH APPLICATION; REFER TO PLANS.
2. COLOR AND FINISH SHALL BE SELECTED BY ARCHITECT. UNITS INSTALLED IN EXPOSED DUCT LOCATIONS TO BE PAINT READY.
3. SURFACE MOUNTED FLANGED FRAME WITH SCREW FASTENING.
4. LAY-IN FRAME.
5. MANUFACTURER PROVIDED OPPOSED BLADE DAMPER, ACCESSIBLE THROUGH FACE OF DEVICE.
6. ACCEPTABLE ALTERNATE MANUFACTURER, PRICE

1.	CAPACITIES ARE BASED ON HIGH FAN SPEED.
2.	MANUFACTURER PROVIDED 24/7 PROGRAMMABLE THERMOSTAT
3.	BACNET CARD
4.	DISCONNECT SWITCH.
5.	PROVIDE (1) EXTRA SET OF FILTERS FOR OWNERS STOCK.
6.	ACCEPTABLE ALTERNATE MANUFACTURERS: DAIKIN, TRANE, YORK.

NO.	3	PROPOSED	WASHING MACHINE	OPERATION	2000	1	1/2002	30/03/03	0	10	100%	100%	07	04	012	2007	1/01	7/1	NA
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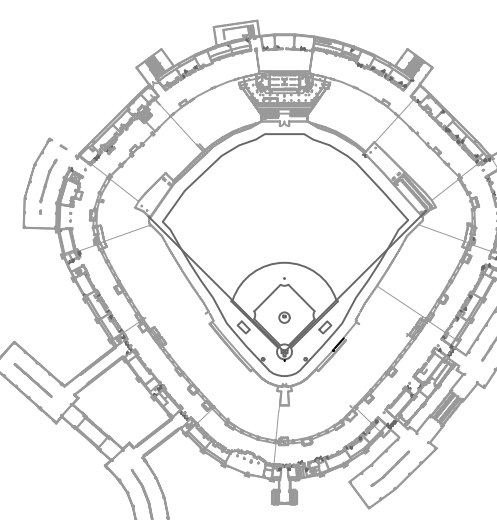
NOTES:

1. REFER TO EQUIPMENT SCHEDULE REFERENCED UNDER 'LOCATION' FOR FURTHER INFORMATION.
2. MULTI-SLOPED STAINLESS STEEL DRAIN PANS UNDER ANY COIL WITH EXPECTED SUPPLY WATER TEMPERATURE BELOW 70°F. COILS STACKED VERTICALLY SHALL BE PROVIDED WITH INTERMEDIATE DRAIN PANS.

<b>NOTES:</b>
1. UNIT MOUNTED THERMOSTAT PROVIDED BY MANUFACTURER.
2. LOCAL DISCONNECT PROVIDED BY MANUFACTURER.
3. 46" LONG ELECTRIC COIL SECTION PROVIDED BY SEPARATE MANUFACTURER TO BE FIELD INSTALLED IN AIR HANDLER. CONTRACTOR TO COORDINATE SIZE OF AHU AND EHC.

NOTES	
1.	MANUFACTURER PROVIDED 1 YEAR WARRANTY ON ENTIRE UNIT AND 5 YEAR PARTS ONLY COMPRESSOR WARRANTY.
2.	MANUFACTURER CERTIFIED START-UP
3.	ECM CONDENSER FANS WITH HEAD PRESSURE CONTROL.
4.	VERTICAL DISCHARGE.
5.	SINGLE POINT POWER.
6.	NON-FUSED DISCONNECT.
7.	FACTORY MOUNTED 120V CONVENIENCE OUTLET FOR FIELD WIRING.
8.	UL LISTED.
9.	ADDITIONAL ACCEPTABLE MANUFACTURERS: AAOX, YORK, DAIKIN, LENNOX, LIEBERT, LG, MITSUBISHI, TRANE.

NOTES
1. CAPACITIES ARE BASED ON HIGH FAN SPEED.
2. MANUFACTURER PROVIDED 24/7 PROGRAMMABLE THERMOSTAT
3. FLARED CONNECTIONS ARE NOT ALLOWED FOR CHICAGO INSTALLATIONS. ALL JOINTS SHALL BE BRAZED.
4. BACNET CARD
5. DISCONNECT SWITCH.
6. CONDENSATE PUMP.
7. PROVIDE FILTERED RETURN SECTION MOUNTED TO UNIT INLET.
8. PROVIDE (1) EXTRA SET OF FILTERS FOR OWNERS STOCK.
9. ACCEPTABLE ALTERNATE MANUFACTURERS: LIEBERT 1G, MITSUBISHI, SAMSUNG.
10. NO SUBSTITUTION WILL BE ACCEPTABLE. UNITS TO BE INSTALLED IN EXISTING VRF SYSTEM BY BASIS OF DESIGN MANUFACTURER. SUBSTITUTION WOULD REQUIRE FULL SYSTEM REPLACEMENT.

[illegible]



10. THE BASC SHALL SELECT ALL PRESSURE AND TEMPERATURE SENSORS WITH AN APPROPRIATE SPAN AND RANGE FOR THE APPLICATION.

11. ALL TEMPERATURE AND PRESSURE SENSORS SHALL BE INSTALLED IN LOCATIONS SUCH THAT THEY DO NOT MAKE FALSE READINGS. BASC SHALL REVIEW THE PLANS AND IDENTIFY ANY SUCH POTENTIAL CAUSES FOR FALSE READINGS AND NOTIFY THE ENGINEER IN WRITING THAT THESE SHOULD BE RELOCATED PRIOR TO ROUGH-IN AND CONTROLS INSTALLATION. THE BASC SHALL RELOCATE ANY SENSORS INSTALLED IN IMPROPER LOCATIONS AND GIVING FALSE READINGS AND HIS OWN EXPENSE. CONDITIONS TO BE AWARE OF INCLUDE, BUT ARE NOT LIMITED TO, LOCATIONS OF THERMOSTATS BEHIND DOORS, OUTDOOR AIR SENSORS NEAR EXHAUST OPENINGS, STATIC PRESSURE SENSORS IN TURBULENT LOCATIONS, THERMOSTATS INSTALLED ADJACENT TO HEAT SOURCES SUCH AS COFFEE POTS, COMPUTERS, VENDING MACHINES, AND OTHER APPLIANCES, ETC.

12. THE BASC SHALL FURNISH AND INSTALL MANUAL RESET SAFETY DEVICES FOR ANY AND ALL CONDITIONS THAT COULD DAMAGE THE EQUIPMENT AND / OR REPRESENT A THREAT TO HUMAN SAFETY. ALL WATER COILS SHALL BE PROTECTED BY AN AVERAGING ELEMENT FREEZE-STAT WITH A NON-ADJUSTABLE 40°F SET POINT. MANUAL RESET, AND HARDWIRED INTERLOCK TO SHUT DOWN THE ASSOCIATED FAN ANY TIME THE TEMPERATURE ACROSS ANY 12" LENGTH OF THE AVERAGING ELEMENT FALLS BELOW 40°F. FREEZE-STATS SHALL BE INSTALLED DOWNSTREAM OF ALL WATER COILS.

13. ALL UNUSED HOLES IN EXISTING AND NEW CONTROL PANELS ARE TO BE CAPPED.

14. RE-USE OF EXISTING CONTROL CONDUIT, RACEWAYS, AND WIRING ACCEPTABLE IF COMPATIBLE WITH NEW SYSTEM AND IF THE CONTRACTOR INCLUDES IN THE PROJECT WARRANTY.

15. THE BASC IS RESPONSIBLE FOR ALL LOW VOLTAGE CONTROL WIRING, POWER WIRING, AND CONDUIT ASSOCIATED WITH ALL CONTROL VALVES, ACTUATORS, CONTROLLERS, ETC., BEING INSTALLED AS A PART OF THIS PROJECT.

16. THE BASC MAY RE-USE ANY EXISTING RELAYS, CURRENT SENSING RELAYS, AND CURRENT TRANSDUCERS PROVIDED THEY ARE COMPATIBLE WITH THE NEW CONTROLLERS. ALL HARD WIRED CONTROL POINTS ARE TO BE MAPPED TO THE SYSTEM GRAPHICS FOR EASY VIEWING BY BUILDING STAFF. ANY CONDUIT, WIRING, SENSORS, OR SWITCHES THAT ARE RE-USED BY THE BASC ARE TO BE TESTED PRIOR TO USE AND INCLUDED IN THE PROJECT WARRANTY.

17. WIRING IN OCCUPIED AREAS OF THE BUILDING SHALL BE CONCEALED IN WALL AND ABOVE CEILINGS. EXPOSED WIRING AND CONDUIT IS NOT ACCEPTABLE IN OCCUPIED AREAS.

18. CONTRACTOR SHALL OBTAIN POWER FOR THE NEW DDC CONTROL SYSTEM FROM THE NEAREST SOURCE.

19. THE BASC SHALL INCLUDE ADEQUATE TIME IN HIS BID FOR COMPLETE COMMISSIONING OF THE MECHANICAL SYSTEMS, ON SITE IN COORDINATION WITH THE MECHANICAL CONTRACTOR AND OTHER TRADES AS REQUIRED TO MAKE ALL EQUIPMENT COMPLETE AND FULLY OPERATIONAL.

20. REFER TO SCHEMATICS, SCHEDULES, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- B. SCOPE OF WORK

1. ALL WORK ASSOCIATED WITH THIS PROJECT SHALL BE INCORPORATED INTO THE EXISTING SIEMENS BUILDING AUTOMATION SYSTEM CURRENTLY IN OPERATION WITHIN GUARANTEED RATE FIELD. THE SCOPE OF WORK SHALL BE AS FOLLOWS FOR EACH COMPONENT ASSOCIATED WITH THIS PROJECT. ALL CONTROL ITEMS INDICATED BELOW SHALL BE PROVIDED IN GRAPHIC FORM ON THE BUILDING BAS SYSTEM.

2. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

3. THE FOLLOWING SHALL BE A TYPICAL POINTS LIST FOR A FAN COIL UNIT:

AO-1: MODULATING CHILLED WATER VALVE CONTROL

AI-1: FAN COIL DISCHARGE AIR TEMPERATURE

DI-1: OCCUPIED WALL SWITCH

DO-1: FAN COMMAND ON/OFF

DO-2: ELECTRIC HEAT COIL COMMAND ON/OFF

COMM: THERMOSTAT

3. THE FOLLOWING SHALL BE A TYPICAL POINTS LIST FOR AN AIR HANDLING UNIT:

AO-1: MODULATING CHILLED WATER VALVE CONTROL

AI-2: RETURN AIR TEMPERATURE

AI-1: DISCHARGE AIR TEMPERATURE

DO-1: FAN COMMAND ON/OFF

COMM: THERMOSTAT

4. FCU-1 IN ISFA CONFERENCE ROOM SHALL HAVE OUTDOOR AIR DUCTWORK AND ASSOCIATED MOTORIZED DAMPER INSTALLED. OA DAMPER SHALL ONLY OPEN TO CFM INDICATED AFTER PROOF OF FCU OPERATION.

5. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL SMOKE AND/OR HEAT DETECTORS IN AIR SUPPLY SYSTEM OVER 2000 CFM. AN ADDRESSABLE FIRE ALARM RELAY SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. BAS CONTRACTOR SHALL PICK UP SIGNAL FROM RELAY AND PROVIDE A PROGRAM TO STOP SUPPLY FAN INTERLOCKED WITH THE SYSTEM SENSING FIRE OR SMOKE. DDC PROGRAM SHALL ALSO SHOW FIRE IN UNIT ALARM AT TIME OF SHUT DOWN.

2. REMOVE PIPING INSULATION TO PERMIT THE INSTALLATION OF ISOLATION VALVES.

3. REMOVE CEILING TILES, LIGHTING, CONDUIT, FIRE PROTECTION PIPING, AND HEADS TO PERMIT THE INSTALLATION OF ISOLATION VALVES.

4. PROVIDE ISOLATION VALVES FOR SUPPLY AND RETURN PIPING AT MAIN RISER OR BRANCH TO PERMIT REPLACEMENT OF FAN COIL UNIT.

5. PROVIDE HOLDING TANK OR TRUCK FOR CHILLED WATER DRAIN DOWN AND RETENTION DURING FAN COIL REMOVAL AND REPLACEMENT. (TANK OR TRUCK CAPACITY TO BE DETERMINED BASED ON DRAIN DOWN REQUIRED).

6. PROVIDE TESTING OF CHILLED WATER FOR GLYCOL CONTENT. REFILLING OF SYSTEM AND MAKE UP OF GLYCOL AS REQUIRED TO ACHIEVE 30% CONCENTRATION.

7. PROVIDE THE RE-INSTALLATION OF CEILING, LIGHTING, FIRE PROTECTION, CONDUIT, AND PIPING.

- XY. DUCTWORK CLEANING

A. GENERAL

1. THE HVAC CLEANING CONTRACTOR SHALL BE A CERTIFIED MEMBER OF THE NATIONAL AIR DUCT CLEANERS ASSOCIATION (NADCA) AND SHALL PERFORM SERVICES IN ACCORDANCE WITH NADCA STANDARDS.

B. HVAC SYSTEM CLEANING REQUIREMENTS

1. SOURCE REMOVAL CLEANING METHOD IS TO BE USED EXCLUSIVELY.

2. CREATE SERVICE OPENINGS AS NEEDED FOR CLEANING INACCESSIBLE AREAS.

3. SEAL ALL OPENINGS, GRILLES, DIFFUSERS, ETC. IN THE SYSTEM TO BE CLEANED.

4. ATTACH HIGH-PRESSURE VACUUM UNIT TO DUCTWORK NEAR FAN. DO NOT EXCEED THE NEGATIVE PRESSURE RATING OF THE DUCTWORK.

5. FROM FARTHEST OPENING, WORK DIRT FROM DUCT BACK TO EXTRACTION POINT USING COMPRESSED AIR BRUSHES AND SCRAPERS.

6. DO NOT DAMAGE LINING OR DEVICES DURING CLEANING. REPLACE ANY DAMAGED MATERIAL.

C. VERIFICATION OF CLEANLINESS

1. THE DUCT CLEANING CONTRACTOR SHALL PROVIDE REPORT VERIFYING CLEANLINESS TO THE ENGINEER.

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- XIV. MECHANICAL / ELECTRICAL SCOPE OF WORK (FAN COIL UNITS)

A. GENERAL NOTES FOR STORAGE AND REPLACEMENT FOR ALL FAN COIL UNITS, AIR HANDLING UNITS, FANS, AND RELATED EQUIPMENT

1. ALL CEILING OR ABOVE CEILING MOUNTED COMPONENTS REMOVED DURING DEMOLITION, INCLUDING BUT NOT LIMITED TO CEILING TILES, SUPPORT STRUCTURE, LIGHT FIXTURES, DUCT WORK, DIFFUSERS, GRILLES, FIRE ALARM DEVICES, AND SPEAKERS SHALL BE STORED FOR RE-INSTALLATION.

2. ALL FIRE PROTECTION DEVICES IN MOUNTED IN CEILING OR ABOVE CEILING, INCLUDING BUT NOT LIMITED TO, SPRINKLER HEADS, PIPING, SUPPORTS, ETC., SHALL BE REMOVED, STORED, AND RE-INSTALLED.

3. ALL DUCT WORK CONNECTIONS TO FANS AND FAN COILS THAT IS DISCONNECTED OR REMOVED TO PERMIT THE INSTALLATION OF NEW EQUIPMENT SHALL BE STORED OR REPLACED AT THE TIME OF INSTALLATION OF THE NEW UNITS.

4. ALL DUCTWORK REMOVED TO PERMIT DEMOLITION AND STORED FOR RE-INSTALLATION SHALL BE CLEANED PRIOR TO INSTALLATION OR REPLACEMENT.

5. EQUIPMENT OR COMPONENTS REMOVED DURING THE DEMOLITION PHASE AND FOUND TO BE DAMAGED OR UNSUITABLE FOR RE-INSTALLATION SHALL BE REPLACED WITH EQUIVALENT ITEMS TO MATCH THOSE REMOVED.

6. ALL EQUIPMENT OR COMPONENTS REMOVED AND STORED SHALL BE LABELED, INDICATING LOCATION, SERVICE, ROOM NUMBER, AND SYSTEM.

7. ALL MATERIALS SHALL BE STORED ON SITE AND PROTECTED FROM DAMAGE OR LOSS. SEE SPECIFICATIONS.
- B. CHILLED WATER FAN COIL - GENERAL DEMOLITION

1. REMOVE CEILING TILE AND SUPPORT SYSTEM LOCATED UNDER UNIT AND DUCTWORK.

2. REMOVE LIGHTING, WIRE, AND CONDUIT LOCATED UNDER UNIT AND DUCTWORK. LIGHTING TO BE RE-USED.

3. REMOVE FIRE PROTECTION PIPING, SPRINKLER HEADS, AND SUPPORTS LOCATED UNDER UNIT AND DUCTWORK.

4. REMOVE ALL SPEAKERS, GRILLES, DIFFUSERS, OR RELATED COMPONENTS UNDER UNIT AND DUCTWORK.

5. RELOCATE MOVABLE EQUIPMENT AND MATERIALS UNDER UNIT AND DUCTWORK.
- C. CHILLED WATER FAN COIL - DEMOLITION

1. REMOVE CHILLED WATER PIPING, INSULATION, VALVES, GAUGES, AND THERMOMETERS. REMOVE UNIT PIPING BACK TO MAIN OR BRANCH Y.

2. REMOVE CONDENSATE DRAIN PIPING AND INSULATION.

3. DISCONNECT ELECTRIC HEATING COIL, CONDUIT AND WIRING TO PERMIT REMOVAL OF FAN COIL.

4. DISCONNECT AND REMOVE DUCTWORK AND FLEXIBLE CONNECTIONS.

5. REMOVE DUCT INSULATION REQUIRED FOR INSTALLATION OF NEW UNIT AND DUCT CONNECTIONS.

6. DISCONNECT AND REMOVE ELECTRICAL POWER WIRING FROM FCU. EXISTING WIRING, CONDUIT, AND COMPONENTS TO BE RE-USED.

7. DISCONNECT ALL TEMPERATURE CONTROL, WIRING, SENSORS, AND RELATED COMPONENTS.

8. DISCONNECT EXISTING DISCONNECT SWITCH SERVING FAN COIL UNIT. SWITCH TO BE RE-USED.

9. REMOVE FAN COIL UNIT, HANGERS, SUPPORTS, AND RELATED COMPONENTS NOT BEING RE-USED.
- D. CHILLED WATER FAN COIL - GENERAL CONSTRUCTION NOTES

1. PROVIDE FIRE PROTECTION PIPING, SPRINKLER HEADS, AND SUPPORTS LOCATED UNDER UNIT AND DUCTWORK.

2. PROVIDE THE RE-INSTALLATION OF LIGHTING, WIRE, AND CONDUIT LOCATED UNDER THE UNIT AND DUCTWORK.

3. PROVIDE CEILING TILE AND SUPPORT SYSTEM LOCATED UNDER UNIT AND DUCTWORK.
- E. CHILLED WATER FAN COIL - CONSTRUCTION

1. PROVIDE FAN COIL UNIT, HANGERS, SUPPORTS, AND RELATED COMPONENTS.

2. PROVIDE ALL TEMPERATURE CONTROL WIRING, SENSORS, AND RELATED COMPONENTS.

3. PROVIDE ELECTRICAL POWER, WIRING, CONDUIT, AND COMPONENTS.

4. PROVIDE RE-CONNECTION OF ELECTRIC HEATING COIL FOR FAN COIL.

5. PROVIDE DUCTWORK CONNECTIONS FOR SUPPLY DUCTWORK AND FLEXIBLE CONNECTIONS.

6. PROVIDE DUCT INSULATION FOR ALL NEW DUCTWORK AND DUCT CONNECTIONS TO EXISTING INSULATED DUCTWORK.

7. PROVIDE CHILLED WATER PIPING, VALVES, GAUGES, THERMOMETERS, AND INSULATION FROM MAIN OR BRANCH PIPING.

8. PROVIDE CONDENSATE DRAIN PIPING, INSULATION, HANGERS, AND SUPPORTS.

9. PROVIDE LABELING OF UNIT, VFD PANELS, PIPING, AND VALVE TAGS.

10. PROVIDE TESTING AND BALANCING OF UNIT.

11. PROVIDE SECONDARY DRAIN PAIN WHERE INDICATED.

12. PROVIDE RETURN AIR FILTER GRILLE.
- F. CHILLED WATER BRANCH PIPING ISOLATION VALVES AND PIPING DRAIN DOWN.

1. PROVIDE DRAIN DOWN OF CHILLED WATER SYSTEMS TO PERMIT THE INSTALLATION OF ISOLATION VALVES.

11/15/2021

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ELARA

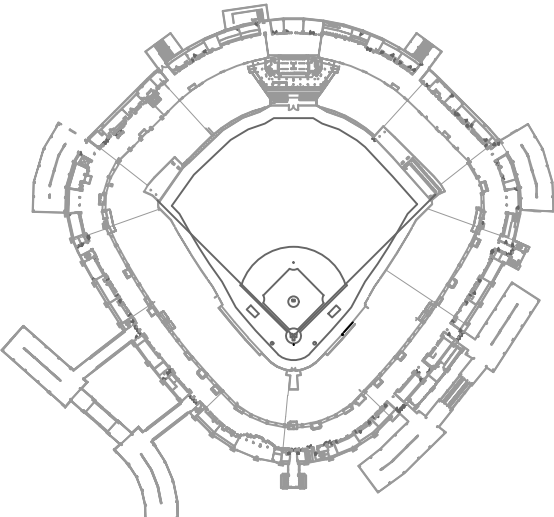
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INDIANA SPORTS  
FACILITIES AUTHORITY



KEY PLAN



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REV.	DATE	DESCRIPTION
-	11/05/21	ISSUED FOR BID
△	11/15/21	ISSUED FOR BID ADDENDUM

PROJECT:

GUARANTEED RATE FIELD -  
HVAC REPLACEMENT PHASE XI

333 W 35TH STREET,  
CHICAGO, ILLINOIS 60616

DRAWING TITLE:

MECHANICAL  
SPECIFICATIONS

DESIGNED BY:

DA

CHECKED BY:

MS

PROJECT NO:

21276

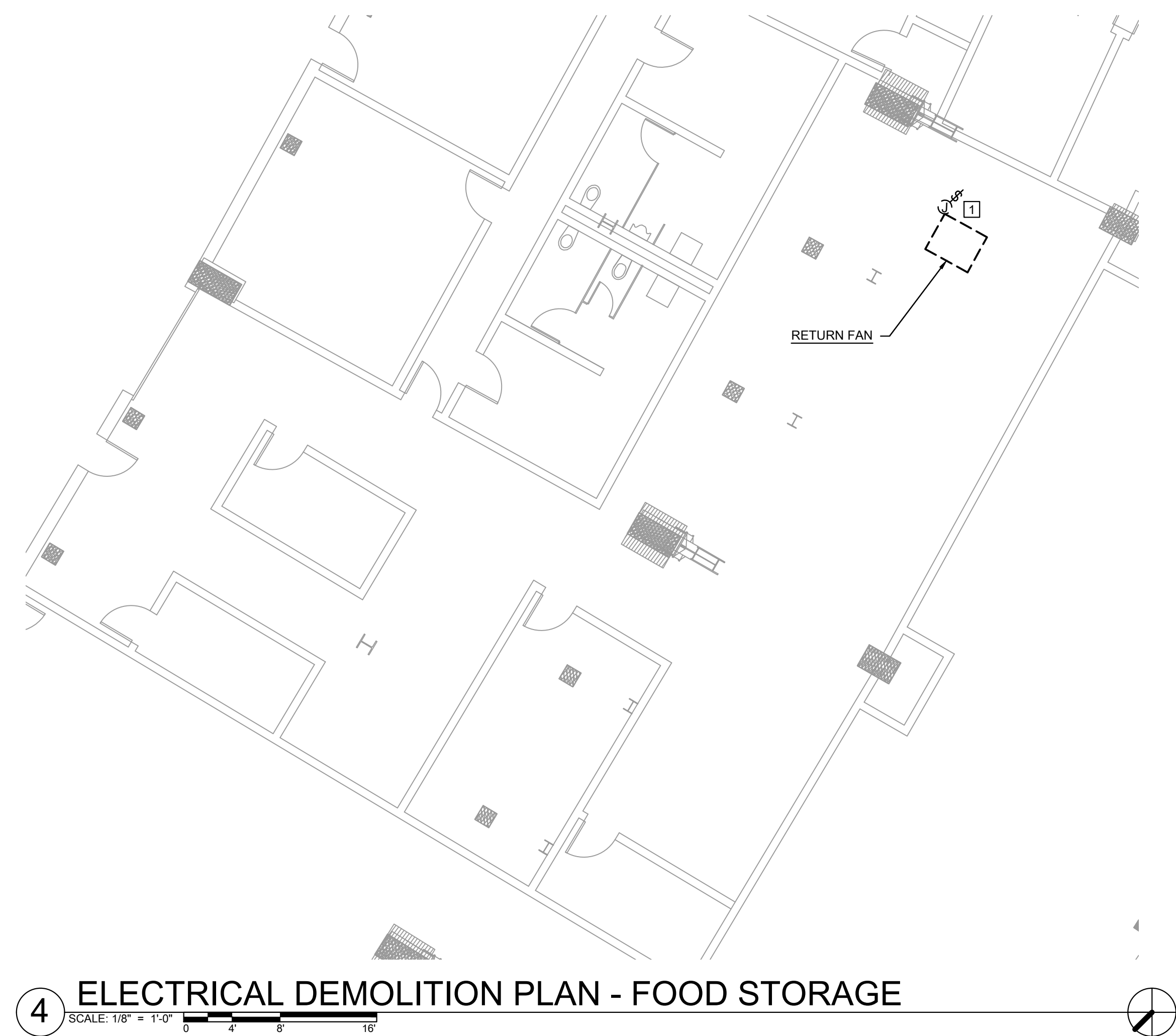
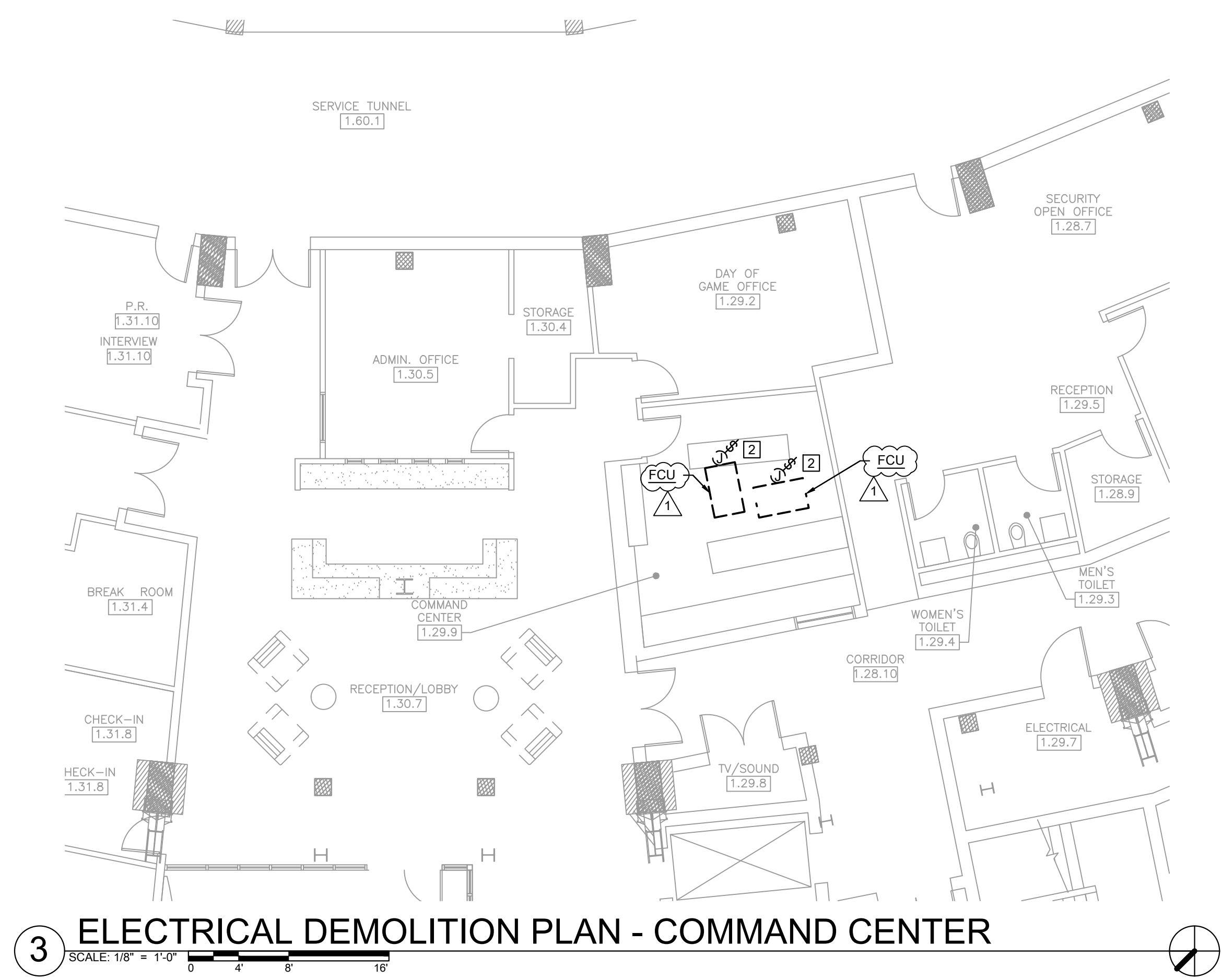
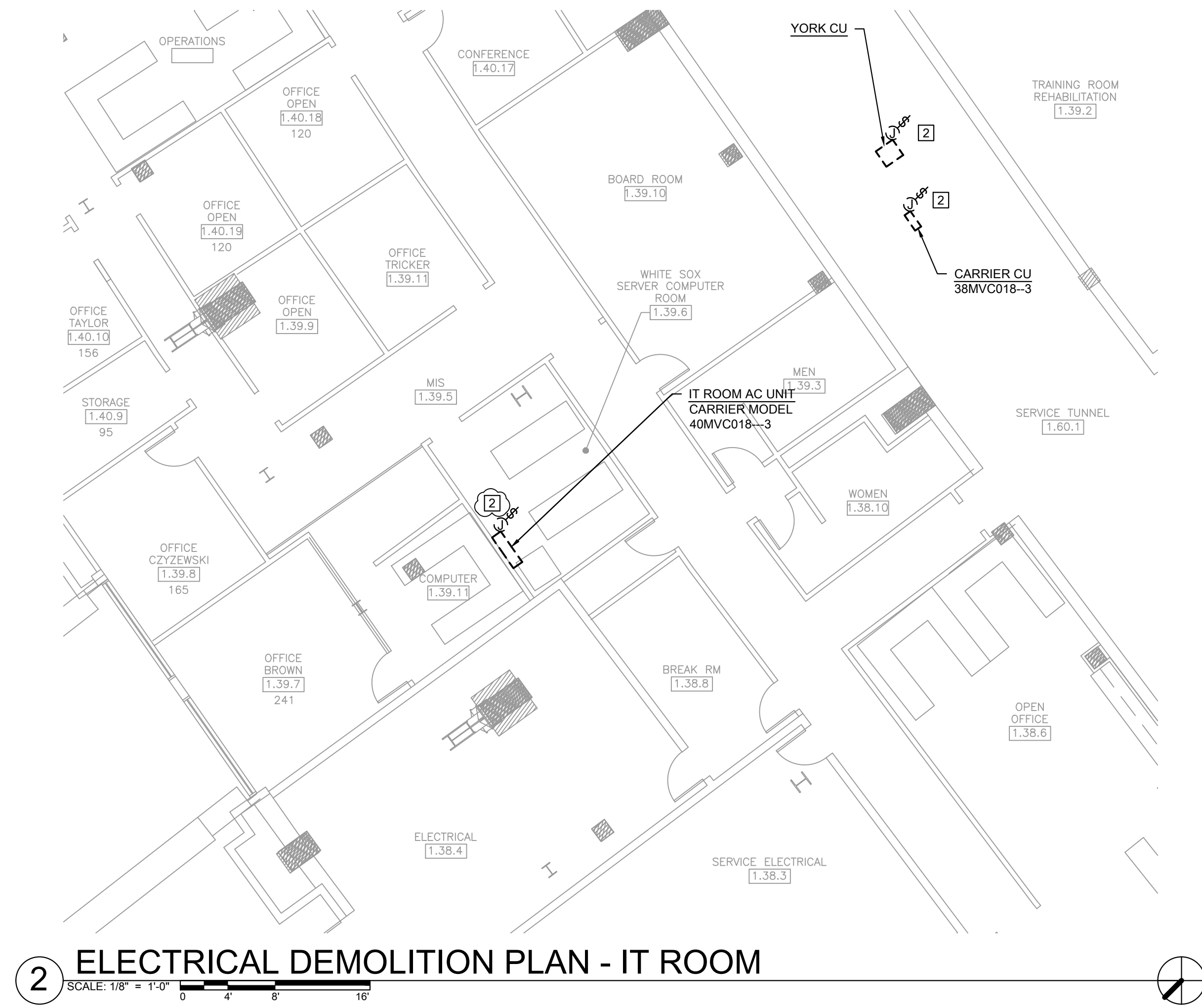
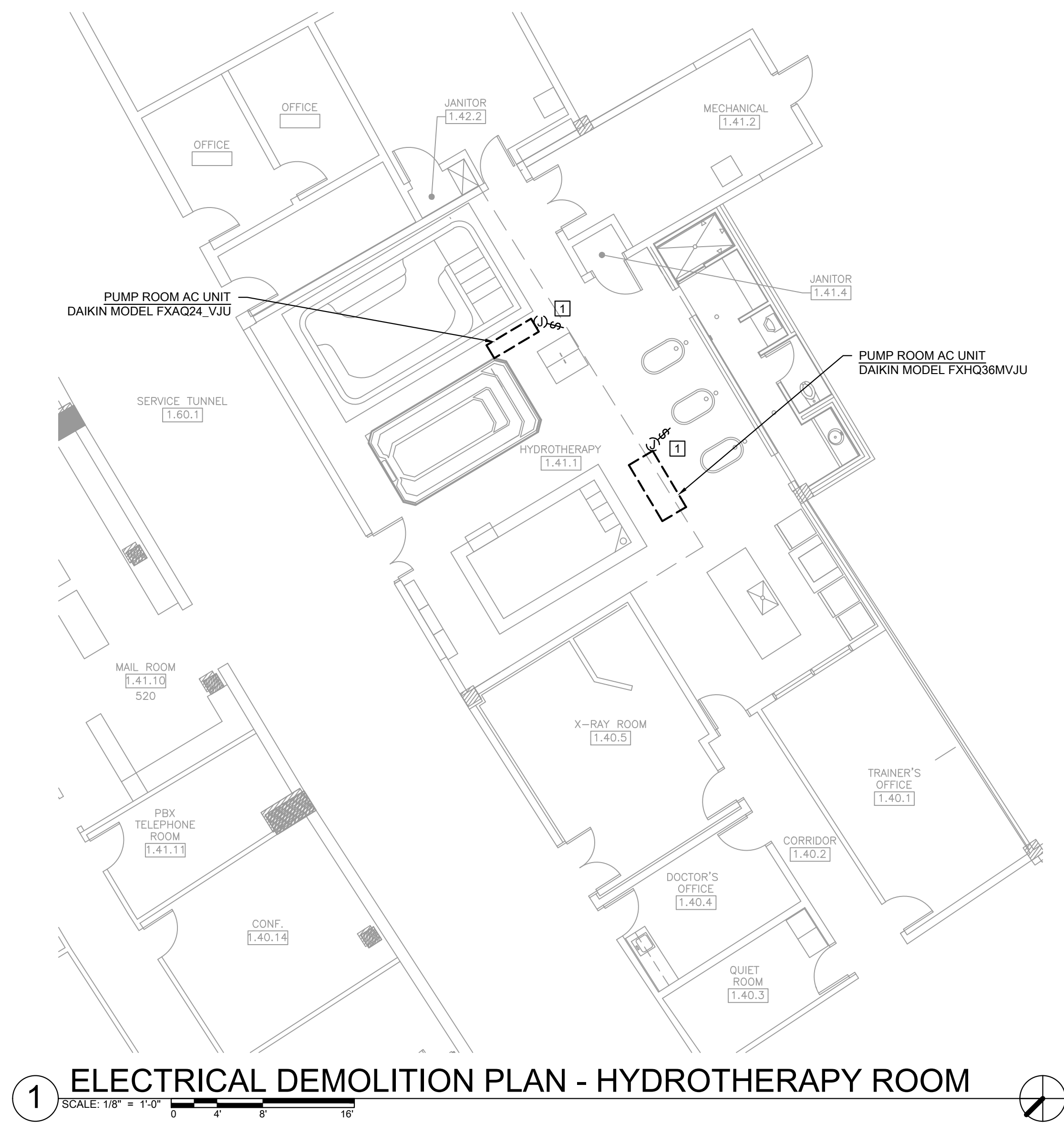
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M5.02





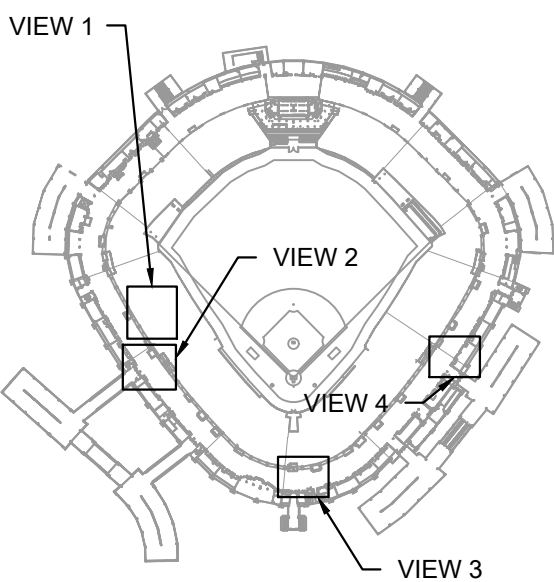
- KEYED ELECTRICAL DEMOLITION SHEET NOTES**
1. DISCONNECT AND REMOVE POWER FOR MECHANICAL EQUIPMENT SHOWN. EC SHALL MAINTAIN EXISTING BRANCH CIRCUIT AND EXISTING CONDUIT AND WIRES FOR INSTALLATION OF NEW MECHANICAL EQUIPMENT IN THE NEW WORK.
  2. DISCONNECT AND REMOVE EXISTING POWER FOR MECHANICAL EQUIPMENT SHOWN. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRES COMPLETELY FROM THE SOURCE.



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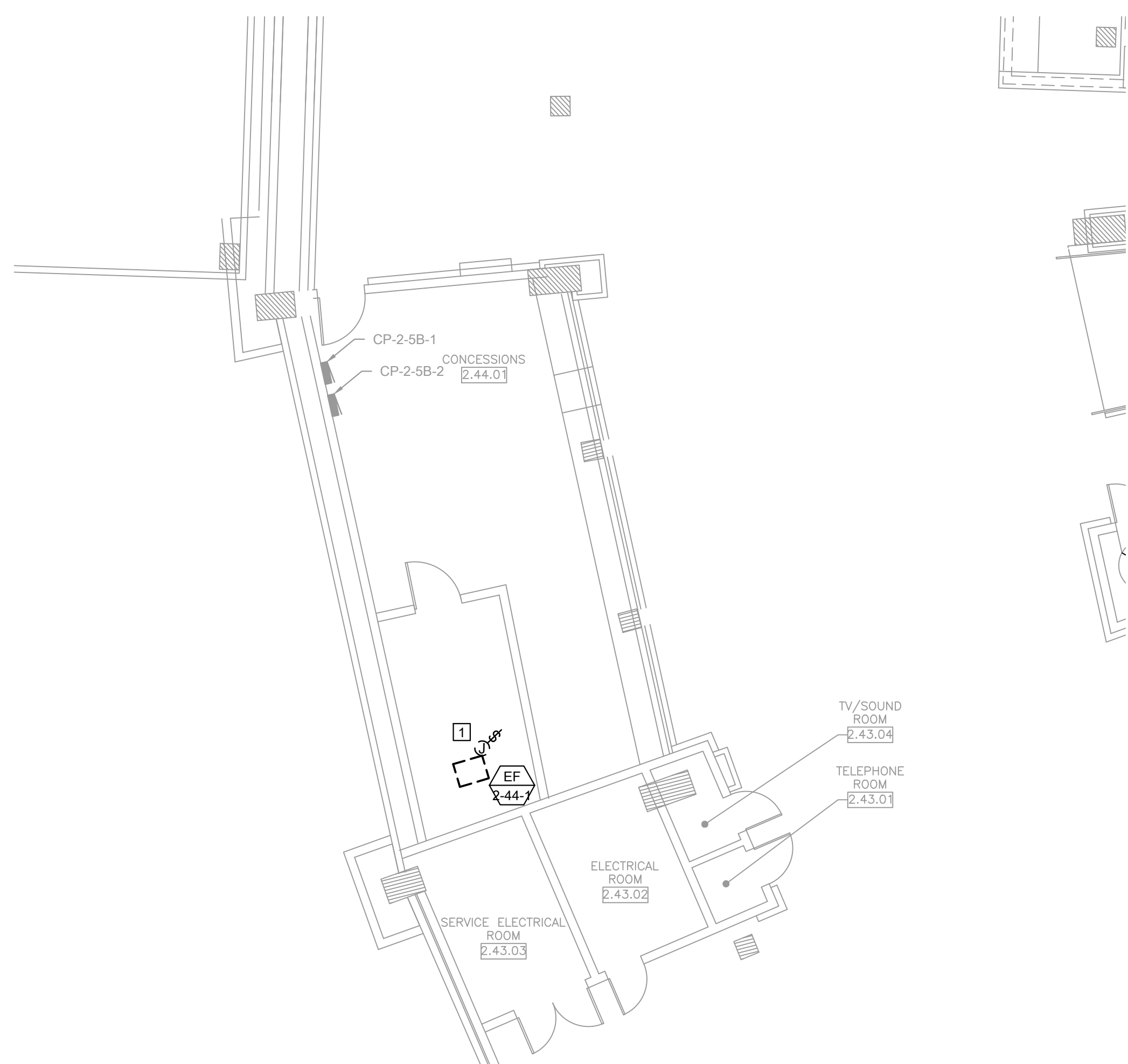
PROJECT:  
GUARANTEED RATE FIELD -  
HVAC REPLACEMENT PHASE XI  
  
333 W 35TH STREET,  
CHICAGO, ILLINOIS 60616

DRAWING TITLE:  
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PLANS - CONCOURSE  
ENLARGED PLANS

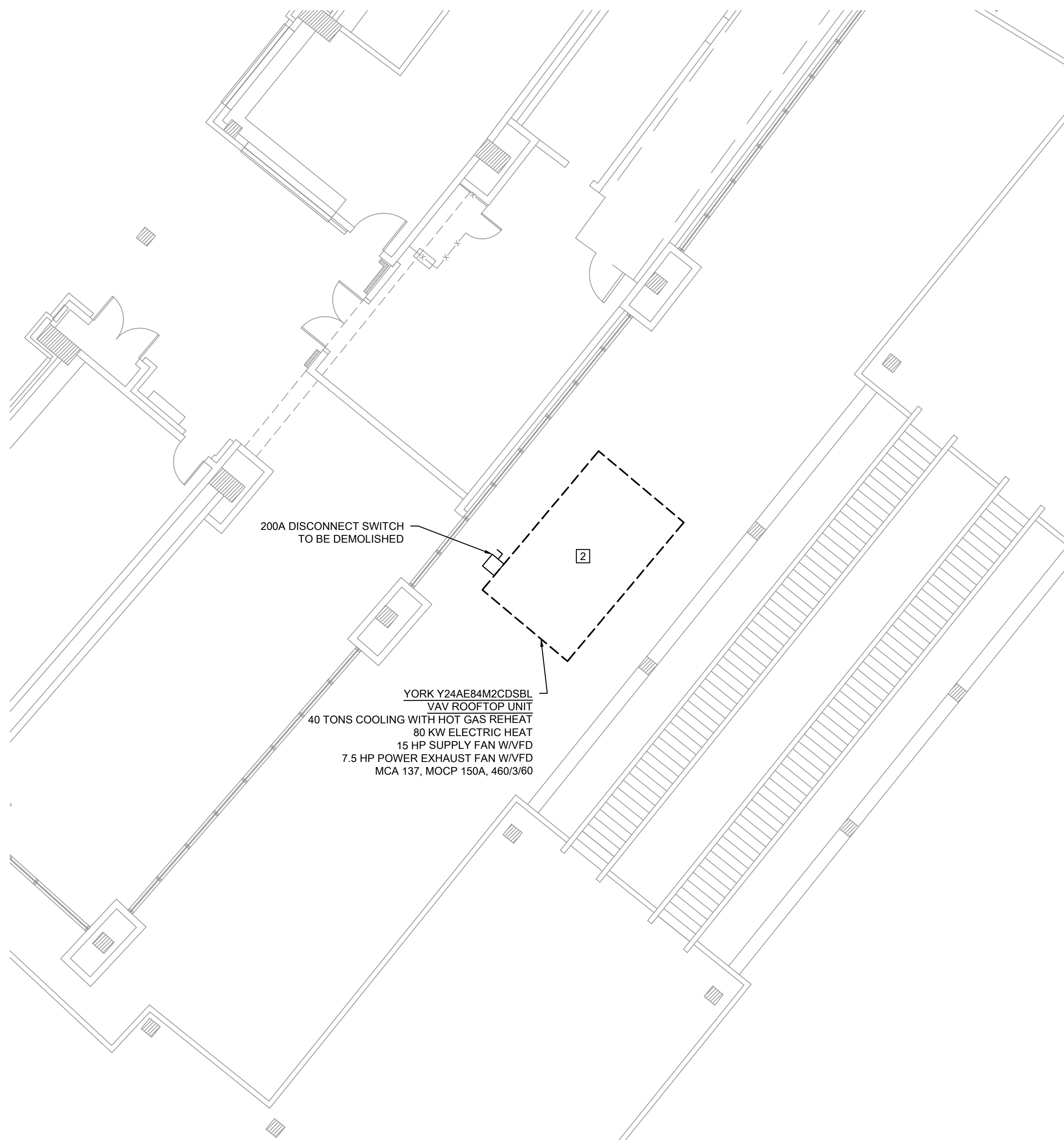
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CHECKED BY:	BT
PROJECT NO:	21276
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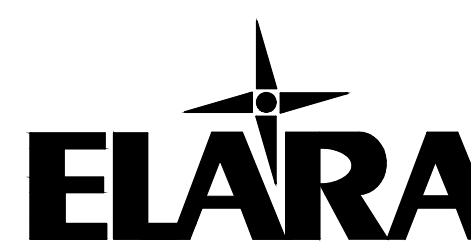
1 ELECTRICAL DEMOLITION PLAN - SECTION 154 CONCESSION COOLING  
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2 ELECTRICAL DEMOLITION PLAN - SCOUTS LOUNGE ROOF  
SCALE: 1/8" = 1'-0"

KEYED ELECTRICAL DEMOLITION SHEET NOTES

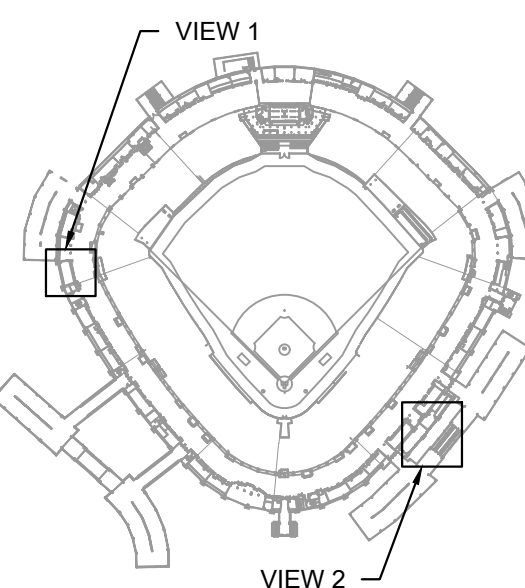
1. DISCONNECT AND REMOVE POWER FOR MECHANICAL EQUIPMENT SHOWN. EC SHALL MAINTAIN EXISTING BRANCH CIRCUIT AND EXISTING CONDUIT AND WIRES FOR INSTALLATION OF NEW MECHANICAL EQUIPMENT IN THE NEW WORK.
2. DISCONNECT AND REMOVE EXISTING POWER FOR MECHANICAL EQUIPMENT SHOWN. DISCONNECT AND REMOVE CONDUIT AND WIRES BACK TO THE EXISTING DISCONNECT SWITCH MOUNTED ON THE EXISTING ROOFTOP UNIT. DISCONNECT AND REMOVE EXISTING DISCONNECT SWITCH. EC SHALL MAINTAIN EXISTING FEEDER AND CONDUIT TO THE SLAB FOR NEW ROOFTOP UNIT. REFER TO THE NEW WORK FOR MORE INFORMATION.



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DRAWING TITLE:  
ELECTRICAL DEMOLITION  
PLANS - 100 LEVEL ENLARGED  
PLANS

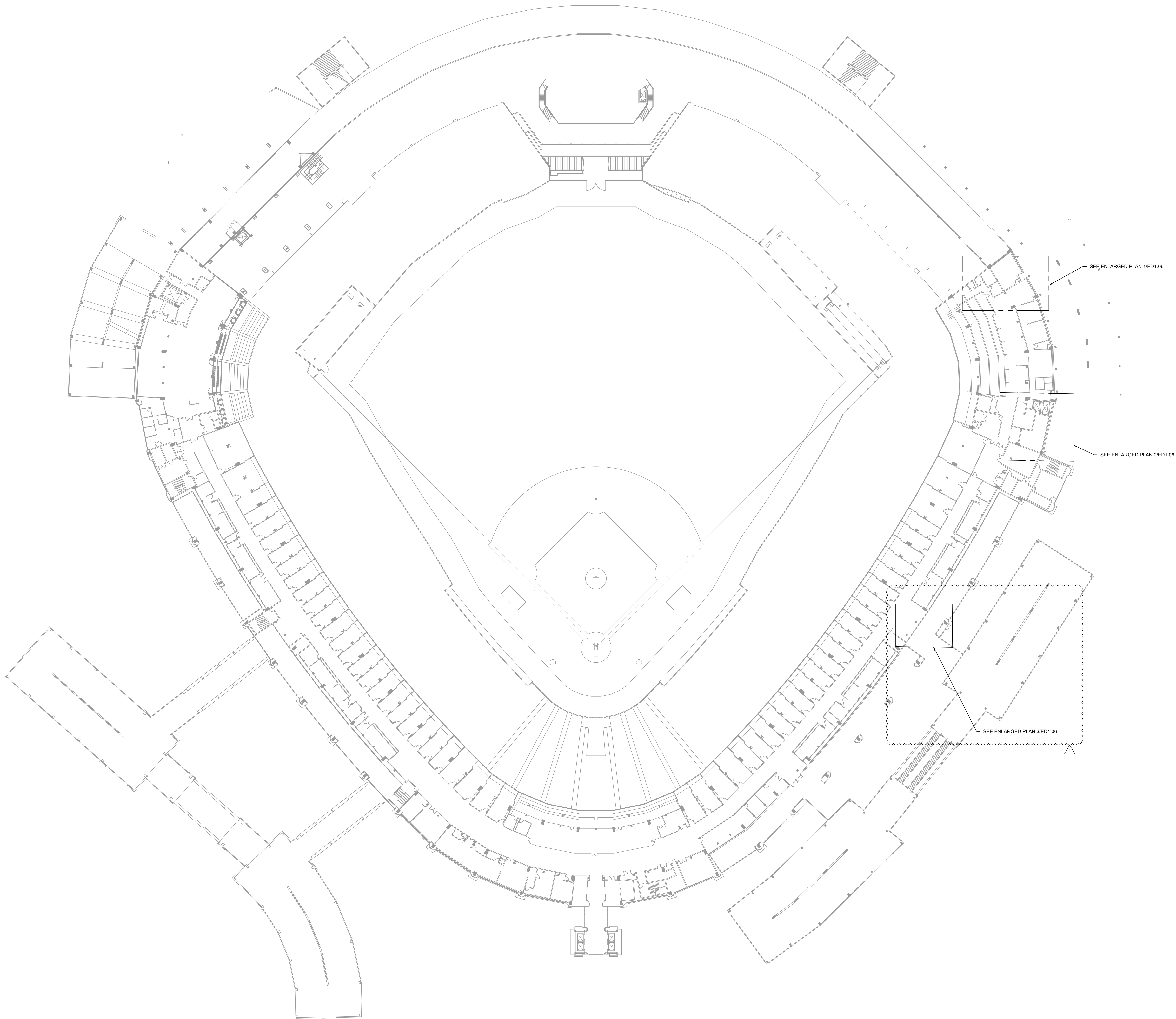
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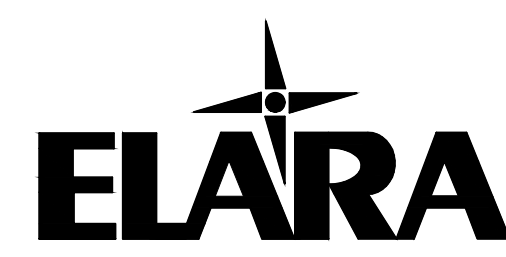
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1 ELECTRICAL DEMOLITION PLAN - 200 LEVEL OVERALL

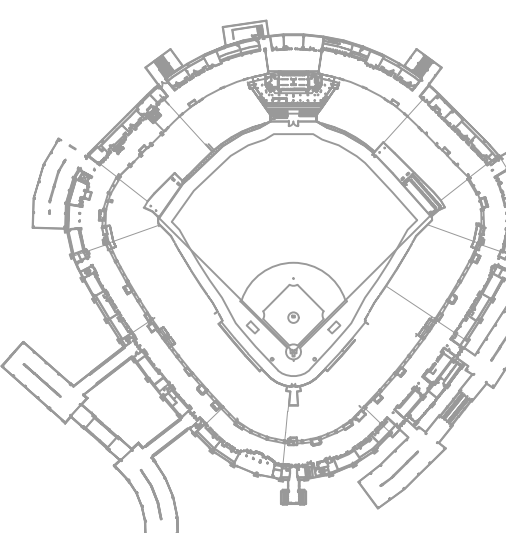
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HVAC REPLACEMENT PHASE XI

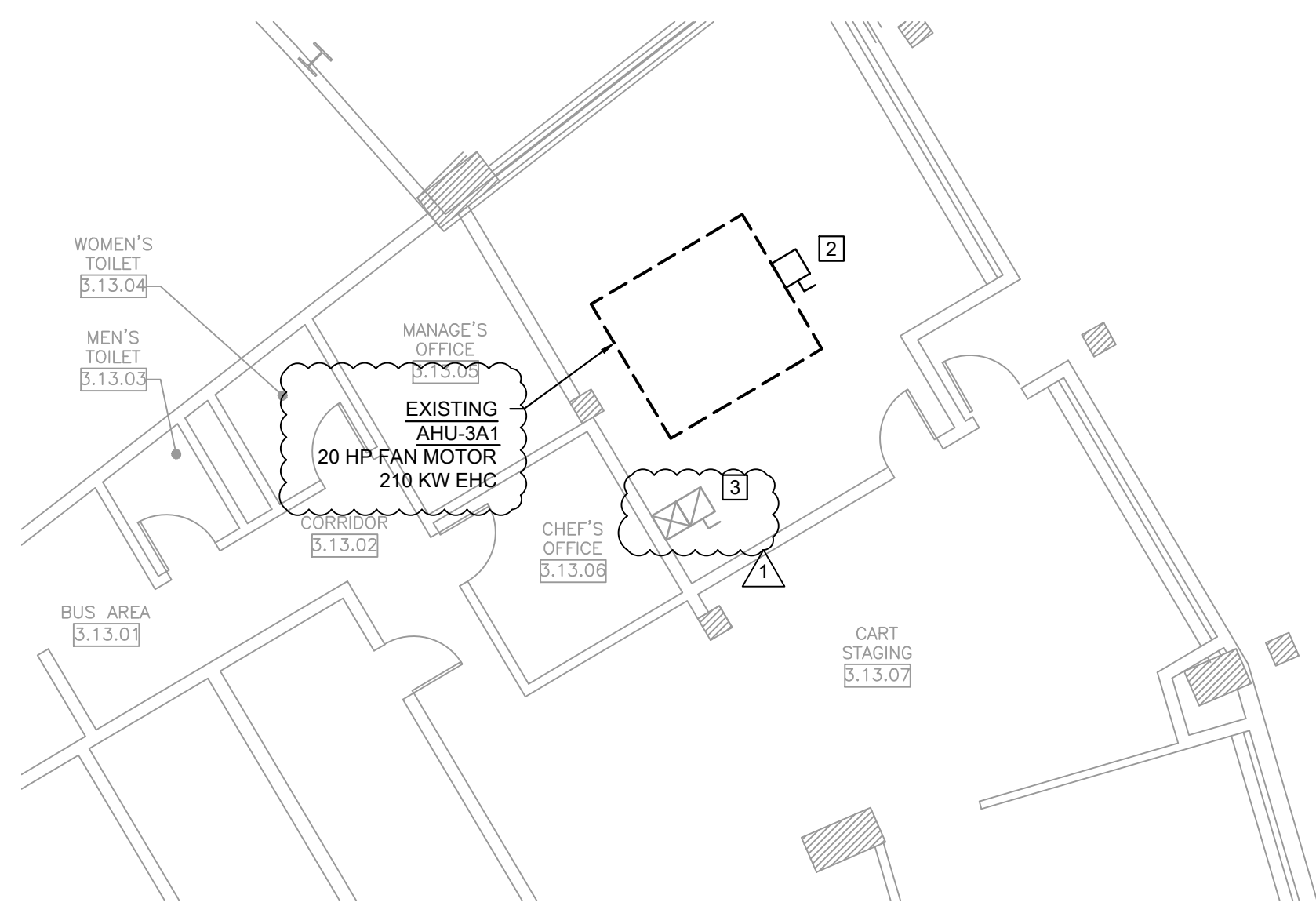
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PLAN - 200 LEVEL OVERALL

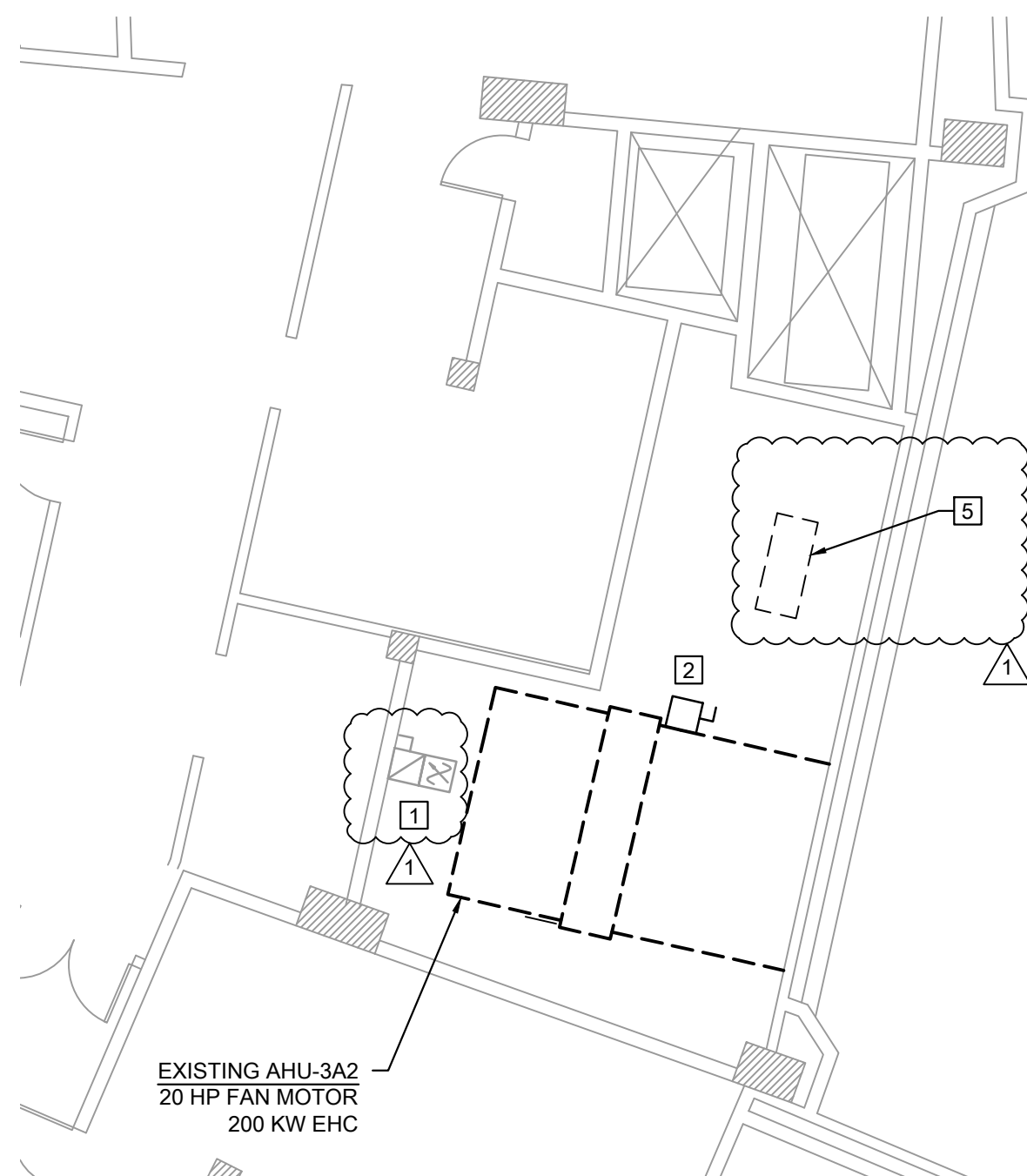
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CHECKED BY:	BT
PROJECT NO:	21276
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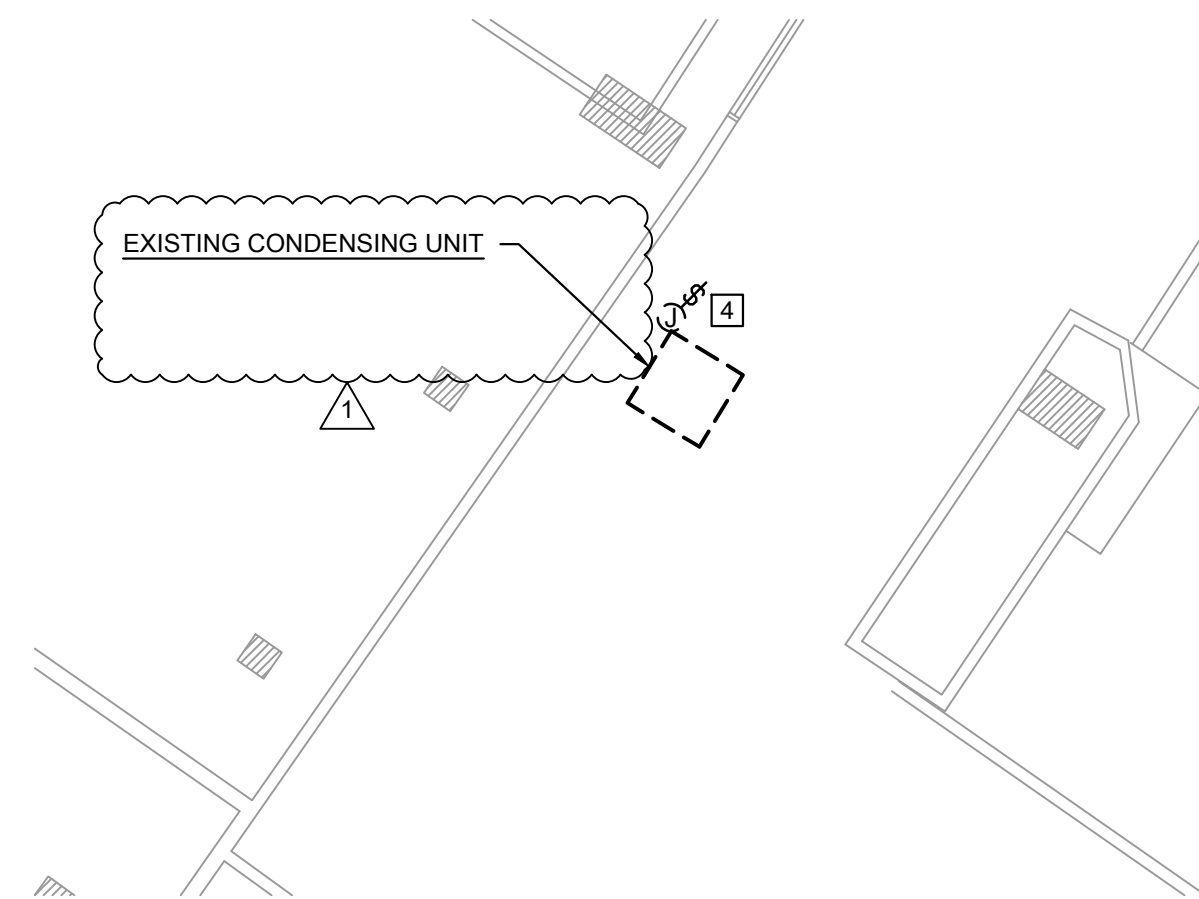
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1 ELECTRICAL DEMOLITION PLAN - KITCHEN AHU 3A1  
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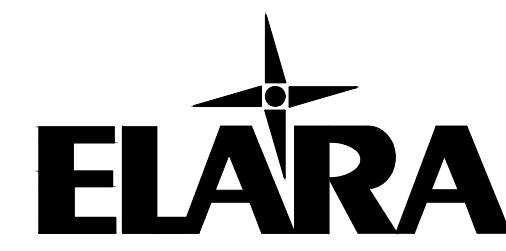


2 ELECTRICAL DEMOLITION PLAN - STADIUM CLUB AHU  
SCALE: 1/8" = 1'-0"



3 ELECTRICAL DEMOLITION PLAN - PANTRY 4.20.1 CU  
SCALE: 1/8" = 1'-0"

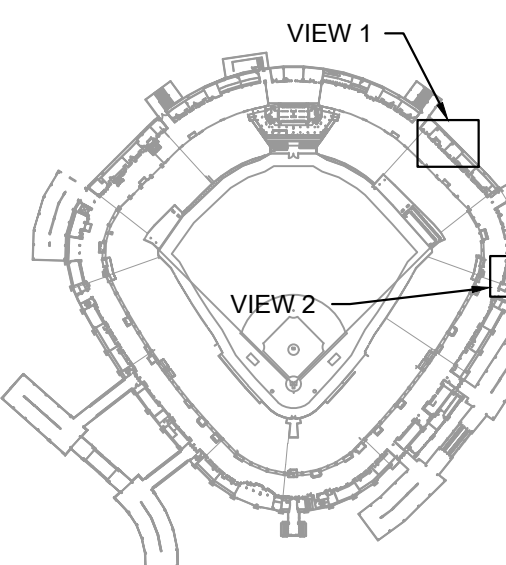
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1.	DISCONNECT AND REMOVE EXISTING POWER FOR MECHANICAL EQUIPMENT SHOWN. DISCONNECT AND REMOVE CONDUIT AND WIRES BACK TO THE EXISTING VARIABLE FREQUENCY DRIVE. EC SHALL MAINTAIN EXISTING FEEDER AND CONDUIT FOR NEW POWER CONNECTION TO FAN MOTOR. REFER TO THE NEW WORK FOR MORE INFORMATION.
2.	DISCONNECT AND REMOVE EXISTING POWER FOR MECHANICAL EQUIPMENT SHOWN. DISCONNECT AND REMOVE CONDUIT AND WIRES BACK TO THE EXISTING DISCONNECT SWITCH FOR ELECTRIC HEATING COIL. EC SHALL MAINTAIN EXISTING FEEDER AND CONDUIT FOR NEW POWER CONNECTION TO NEW ELECTRIC HEATING COIL DISCONNECT SWITCH. REFER TO THE NEW WORK FOR MORE INFORMATION.
3.	DISCONNECT AND REMOVE EXISTING POWER FOR MECHANICAL EQUIPMENT SHOWN. DISCONNECT AND REMOVE CONDUIT AND WIRES BACK TO THE EXISTING STARTER. EC SHALL MAINTAIN EXISTING FEEDER AND CONDUIT FOR NEW POWER CONNECTION TO FAN MOTOR. REFER TO THE NEW WORK FOR MORE INFORMATION.
4.	DISCONNECT AND REMOVE POWER FOR MECHANICAL EQUIPMENT SHOWN. EC SHALL MAINTAIN EXISTING BRANCH CIRCUIT AND EXISTING CONDUIT AND WIRES FOR INSTALLATION OF NEW MECHANICAL EQUIPMENT IN THE NEW WORK.
5.	DISCONNECT AND PRESERVE EXISTING RETURN FAN BRANCH CIRCUIT. EXISTING RETURN FAN IS BEING REFURBISHED AND WILL BE RE-INSTALLED DURING NEW WORK.



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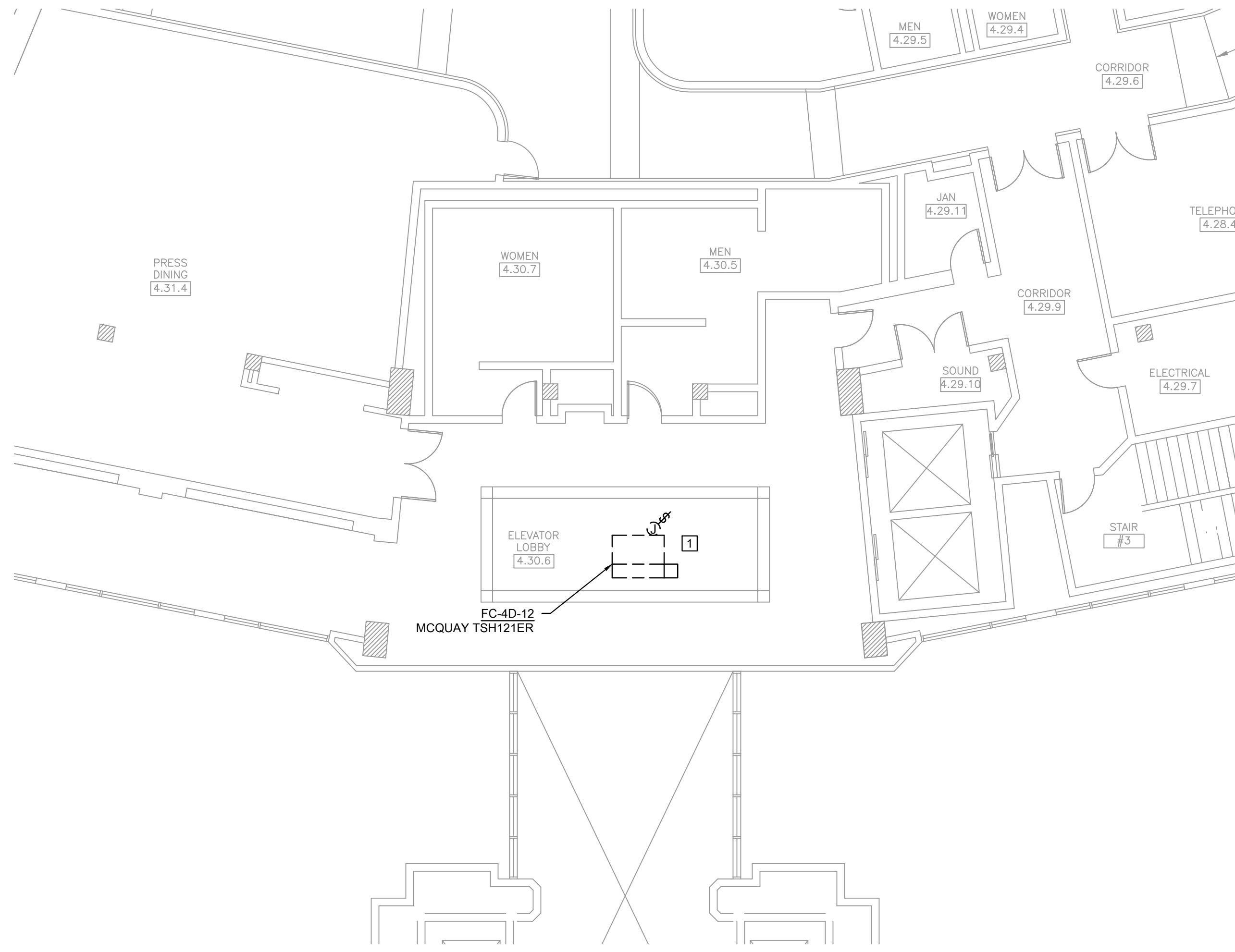
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ELECTRICAL DEMOLITION  
PLANS - 200 LEVEL ENLARGED  
PLANS

DESIGNED BY:	TG
CHECKED BY:	BT
PROJECT NO:	21276
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SHEET NO.	

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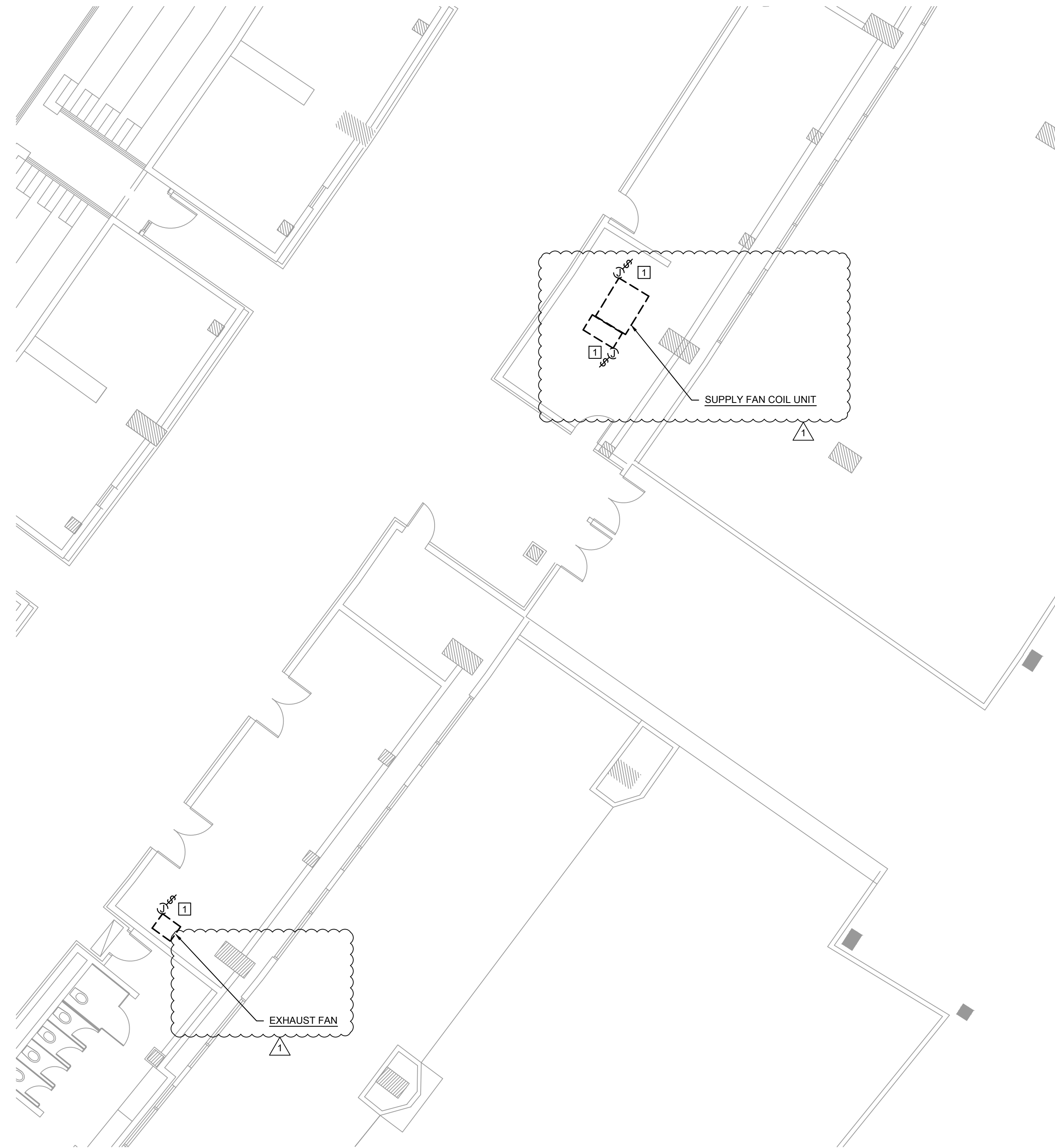




1 ELECTRICAL DEMOLITION PLAN - BARD'S ROOM FCU  
SCALE: 1/8" = 1'-0"

KEYED ELECTRICAL DEMOLITION SHEET NOTES

1. DISCONNECT AND REMOVE POWER FOR MECHANICAL EQUIPMENT SHOWN. EC SHALL MAINTAIN EXISTING BRANCH CIRCUIT AND EXISTING CONDUIT AND WIRES FOR INSTALLATION OF NEW MECHANICAL EQUIPMENT IN THE NEW WORK.



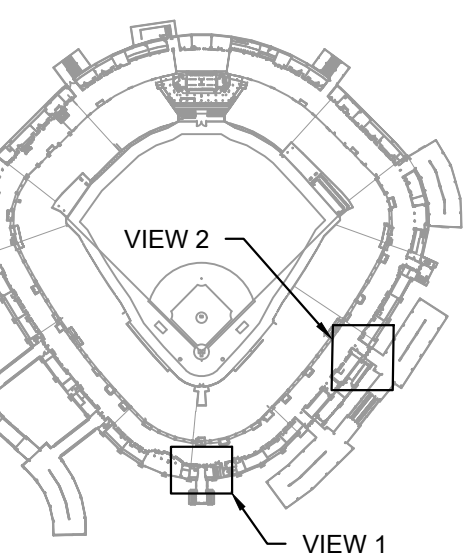
2 ELECTRICAL DEMOLITION PLAN - STORAGE 4.22 & PANTRY 4.20.1  
SCALE: 1/8" = 1'-0"



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PROJECT:  
GUARANTEED RATE FIELD -  
HVAC REPLACEMENT PHASE XI

333 W 35TH STREET,  
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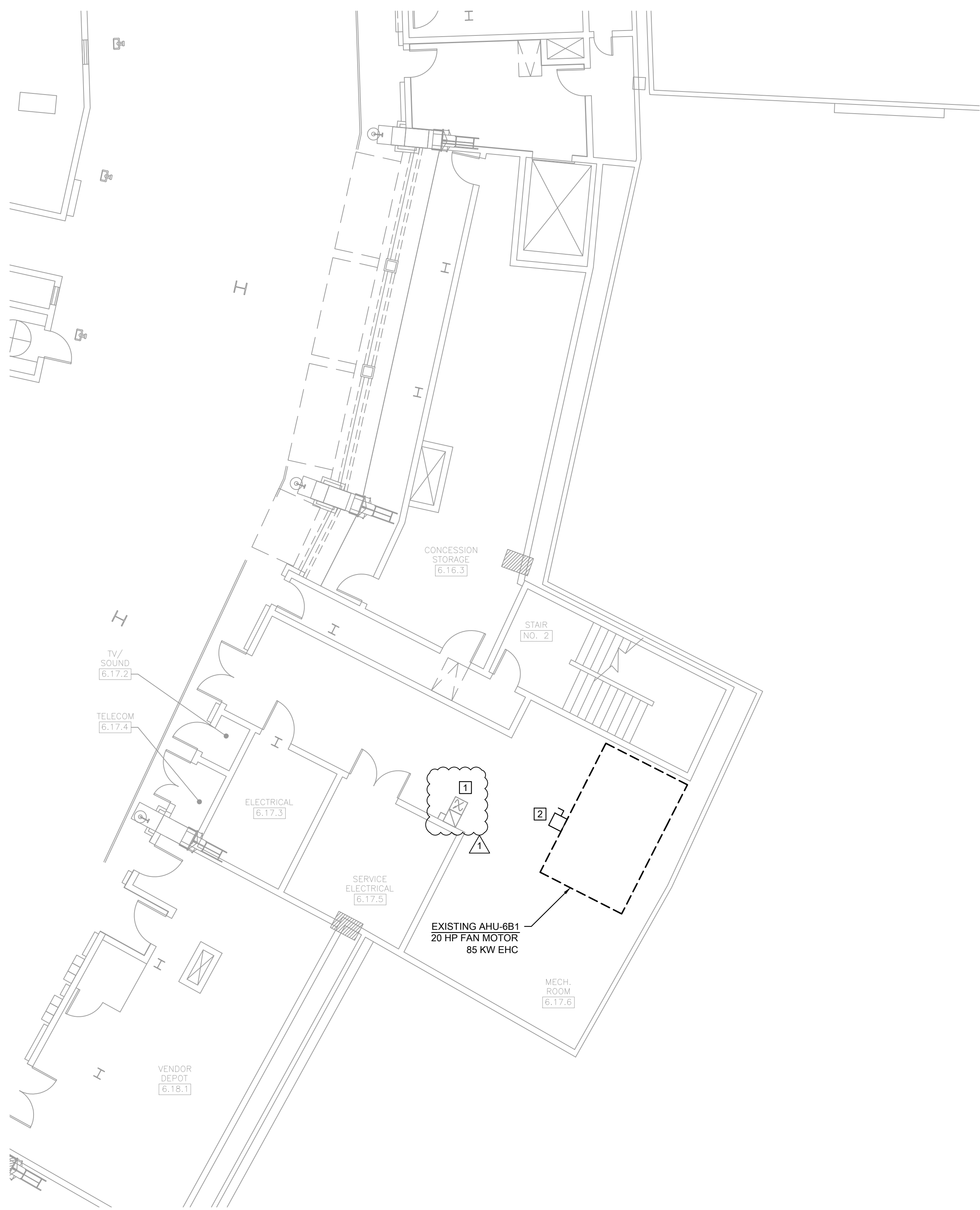
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ELECTRICAL DEMOLITION  
PLANS - 300 LEVEL ENLARGED  
PLANS

DESIGNED BY: TG  
CHECKED BY: BT  
PROJECT NO: 21276  
SCALE: 1/8" = 1'-0"

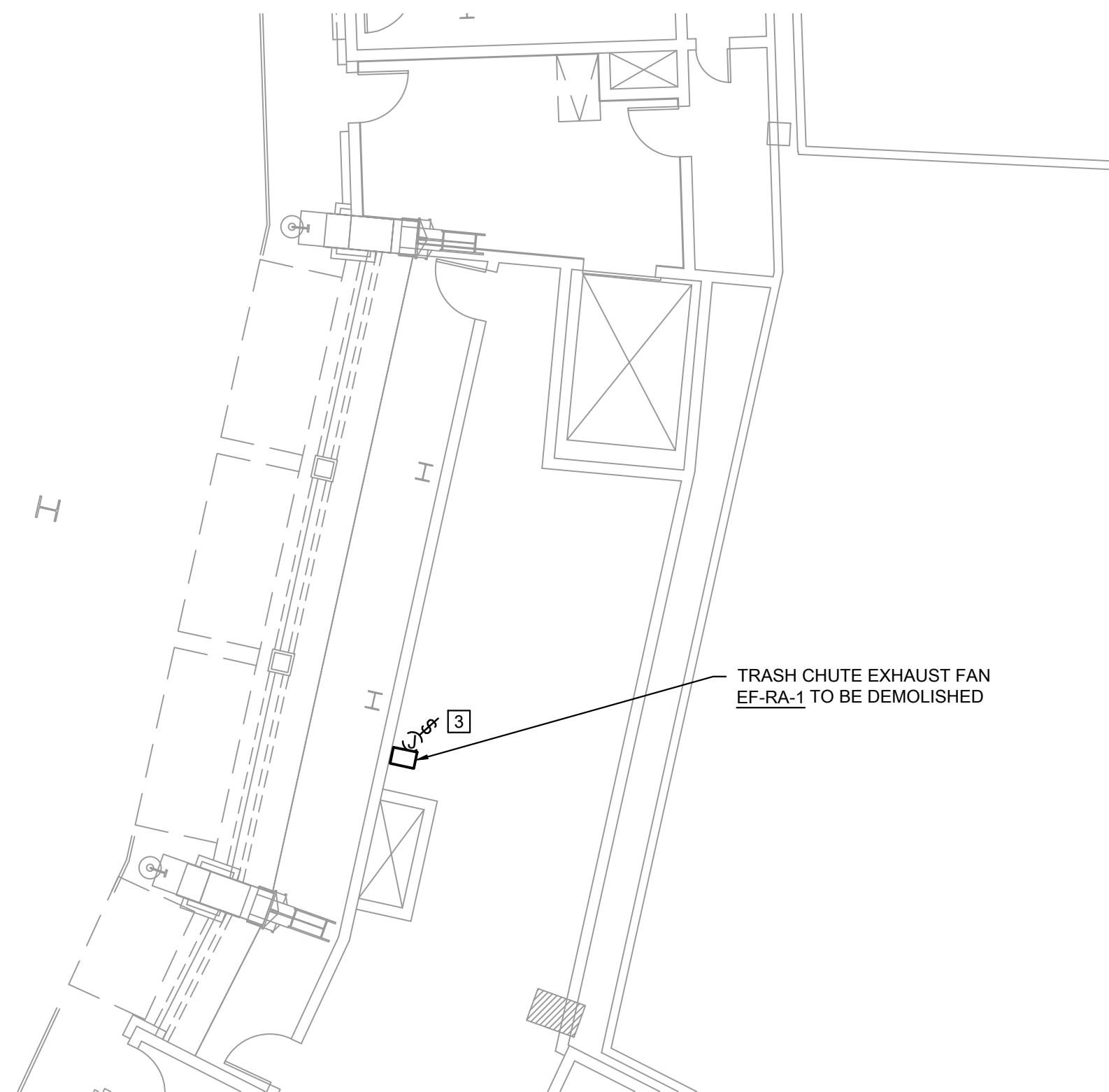
SHEET NO.

11/15/2021 ISSUED FOR BID ADDENDUM  
PRELIMINARY - NOT FOR CONSTRUCTION

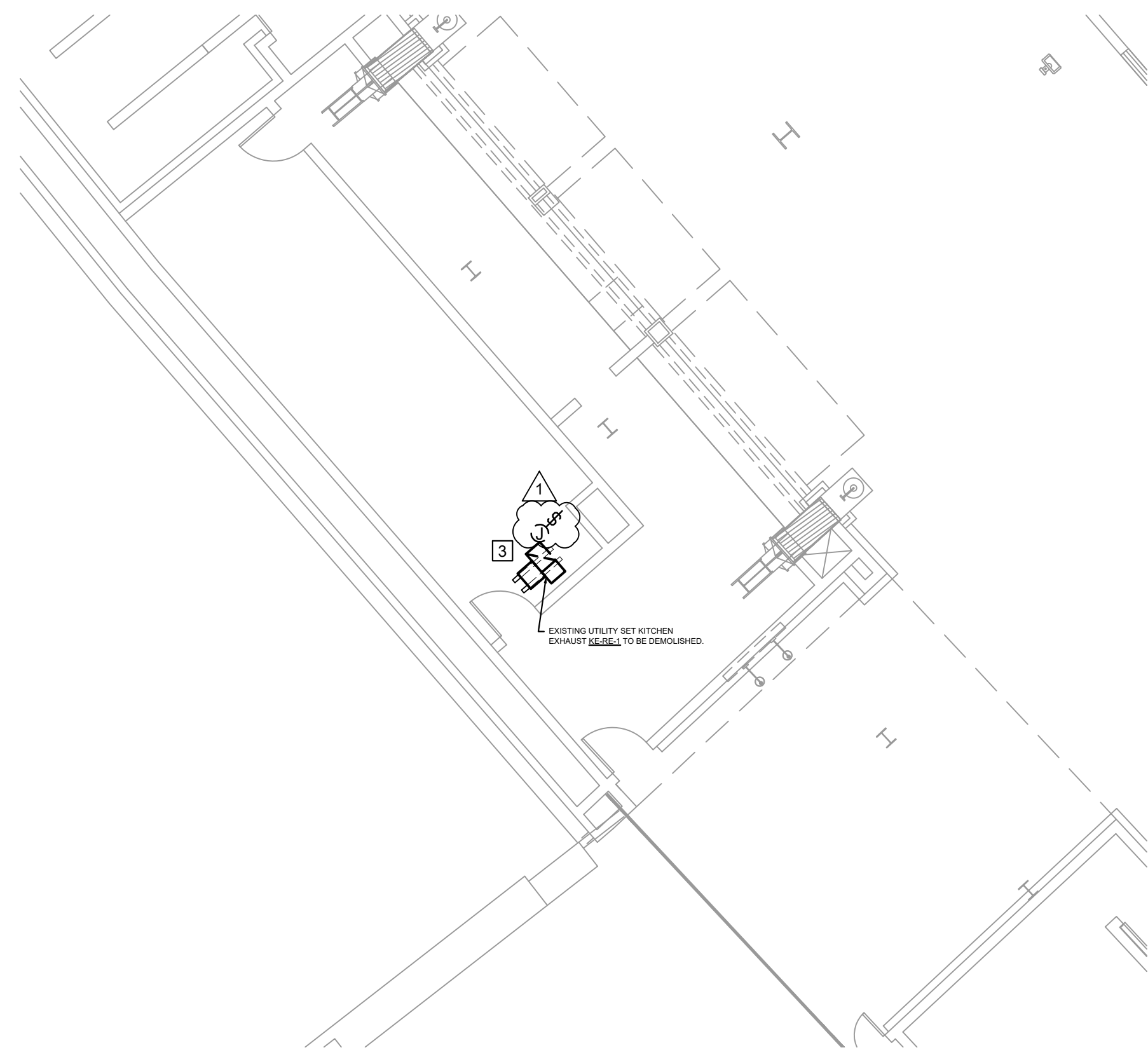
ED1.08



1 ELECTRICAL DEMOLITION PLAN - STADIUM CLUB AHU 6B1  
SCALE: 1/8" = 1'-0"



2 ELECTRICAL DEMOLITION PLAN - TRASH CHUTE EXHAUST ROOF PLAN  
SCALE: 1/8" = 1'-0"



3 ELECTRICAL DEMOLITION PLAN - KITCHEN EXHAUST DUCT ROOF PLAN  
SCALE: 1/8" = 1'-0"

KEYED ELECTRICAL DEMOLITION SHEET NOTES

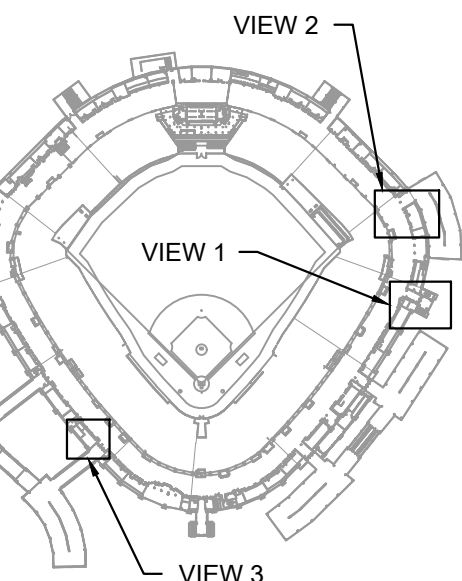
1. DISCONNECT AND REMOVE EXISTING POWER FOR MECHANICAL EQUIPMENT SHOWN. DISCONNECT AND REMOVE CONDUIT AND WIRES BACK TO THE EXISTING VARIABLE FREQUENCY DRIVE. EXISTING VFD SHALL REMAIN. EC SHALL MAINTAIN EXISTING FEEDER AND CONDUIT FOR NEW POWER CONNECTION TO FAN MOTOR. REFER TO THE NEW WORK FOR MORE INFORMATION.
2. DISCONNECT AND REMOVE EXISTING POWER FOR MECHANICAL EQUIPMENT SHOWN. DISCONNECT AND REMOVE CONDUIT AND WIRES BACK TO THE EXISTING DISCONNECT SWITCH FOR ELECTRIC HEATING COIL. EC SHALL MAINTAIN EXISTING FEEDER AND CONDUIT FOR NEW POWER CONNECTION TO NEW ELECTRIC HEATING COIL. DISCONNECT SWITCH. REFER TO THE NEW WORK FOR MORE INFORMATION.
3. DISCONNECT AND REMOVE POWER FOR MECHANICAL EQUIPMENT SHOWN. EC SHALL MAINTAIN EXISTING BRANCH CIRCUIT AND EXISTING CONDUIT AND WIRES FOR INSTALLATION OF NEW MECHANICAL EQUIPMENT IN THE NEW WORK. EC SHALL RE-USE EXISTING STARTER, DISCONNECT SWITCH, OR VFD FOR EXISTING EXHAUST FAN.



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KEY PLAN



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REV.	DATE	DESCRIPTION
-	11/05/21	ISSUED FOR BID
Δ	11/15/21	ISSUED FOR BID ADDENDUM

PROJECT:  
GUARANTEED RATE FIELD -  
HVAC REPLACEMENT PHASE XI

333 W 35TH STREET,  
CHICAGO, ILLINOIS 60616

DRAWING TITLE:  
ELECTRICAL DEMOLITION  
PLANS - 500 LEVEL ENLARGED  
PLANS

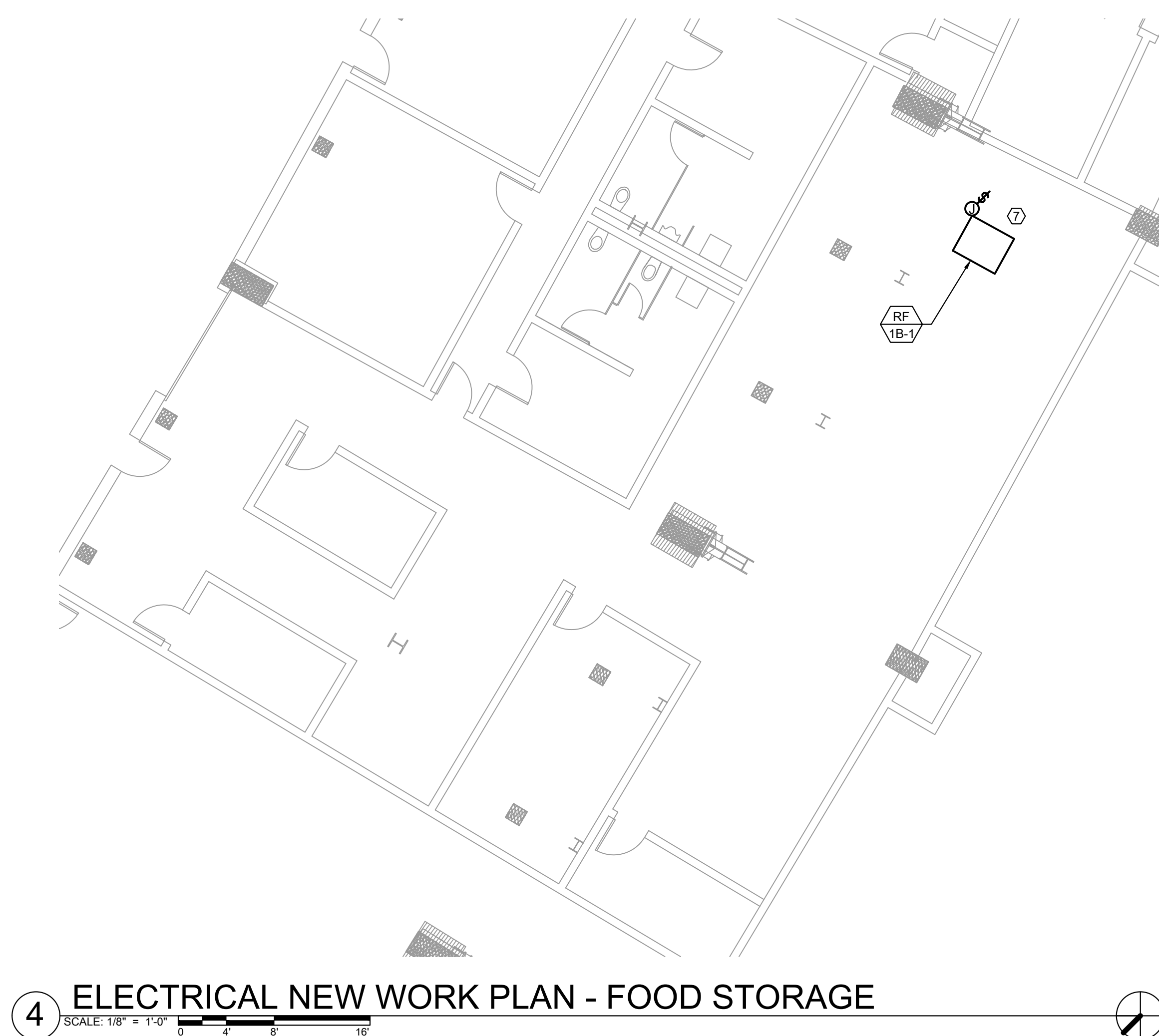
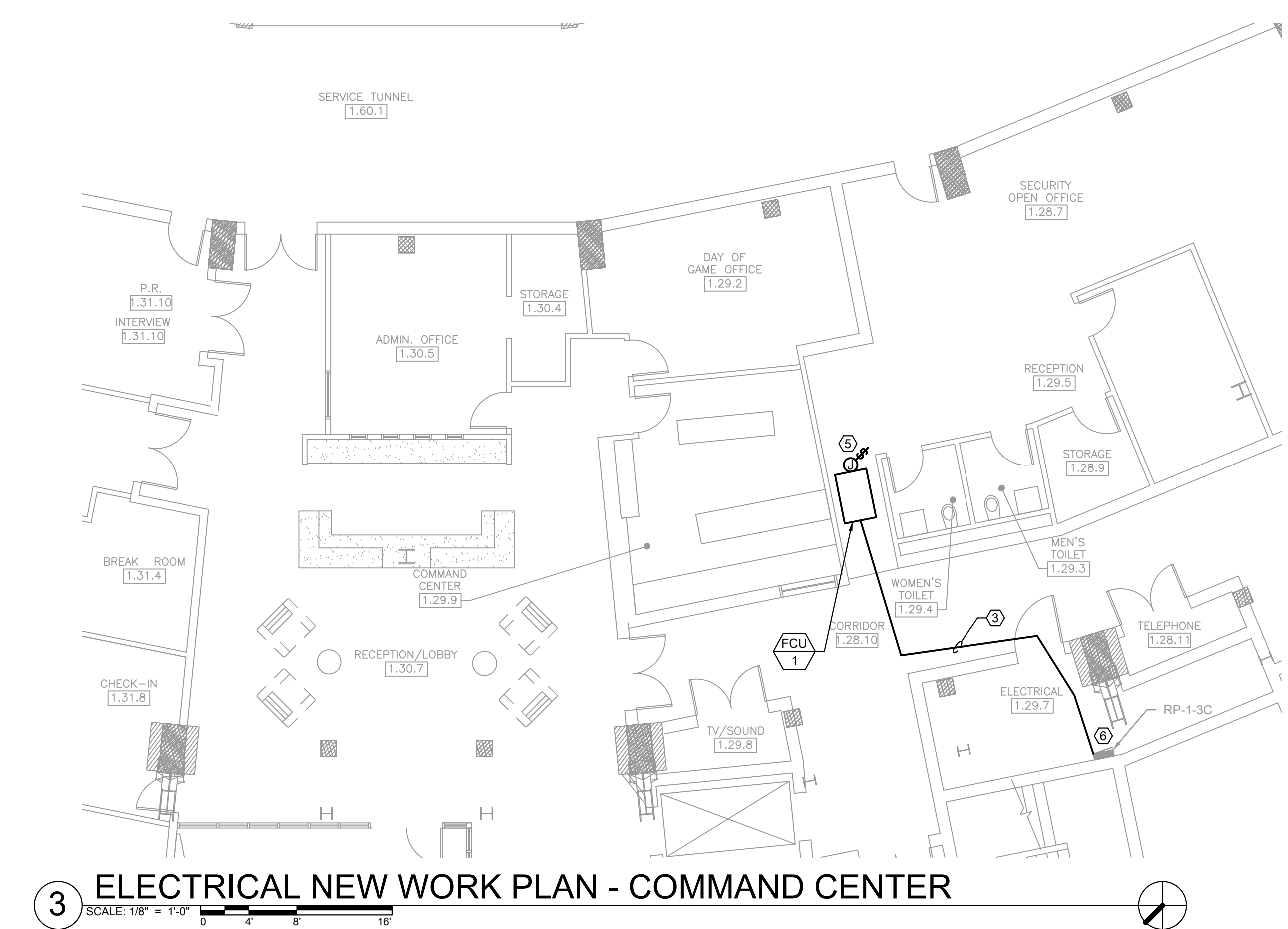
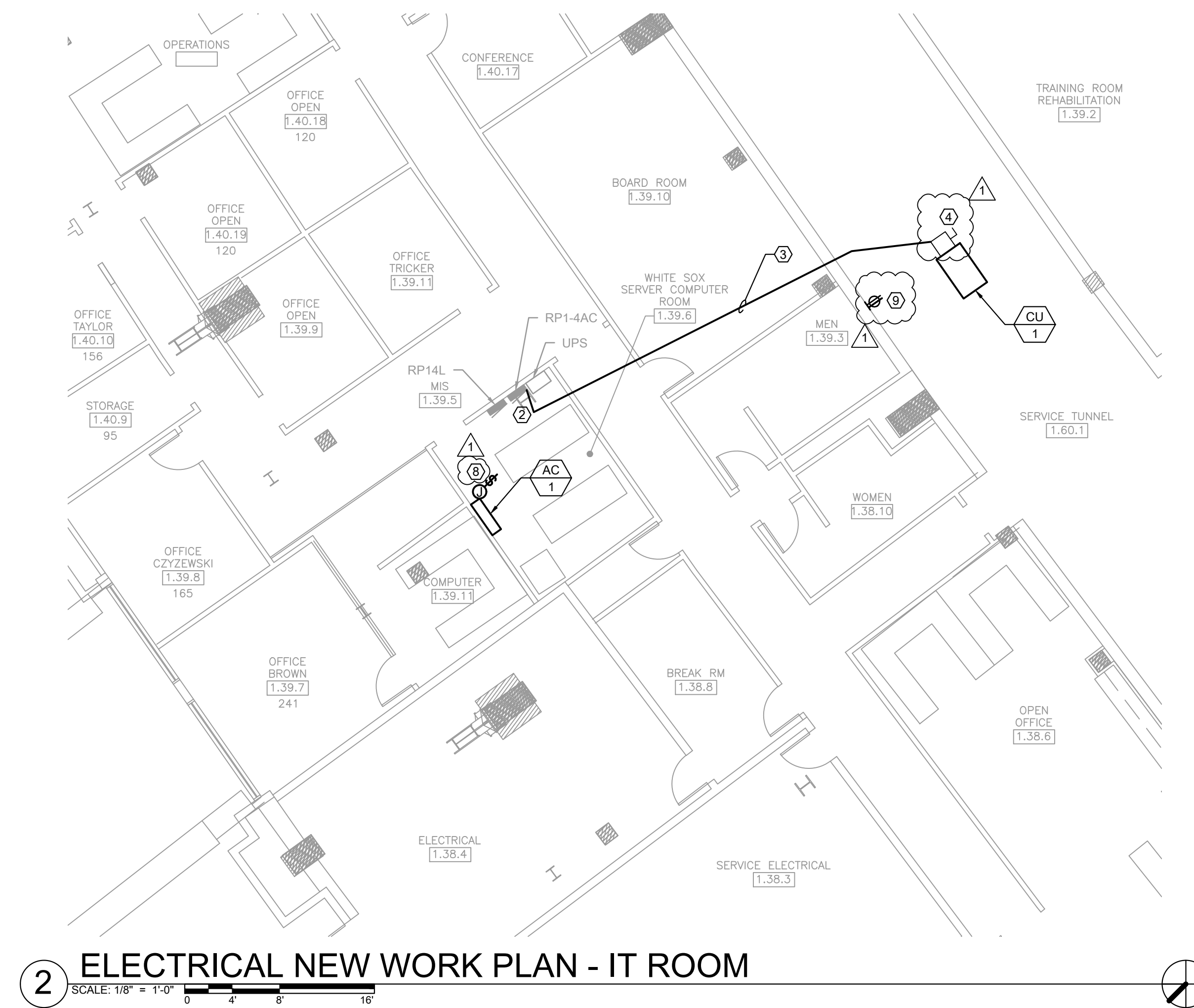
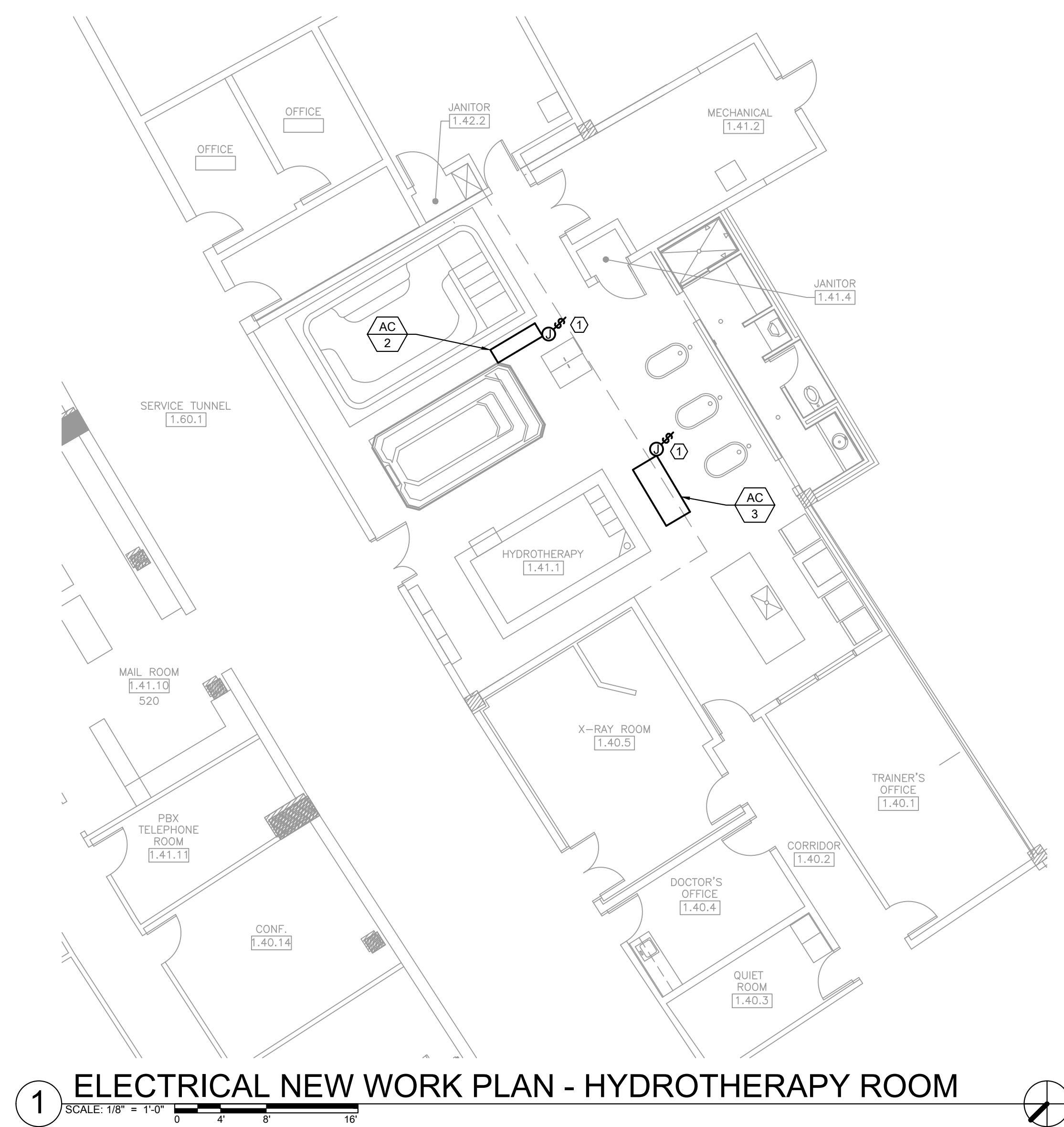
DESIGNED BY: TG  
CHECKED BY: BT  
PROJECT NO: 21276  
SCALE: 1/8" = 1'-0"

SHEET NO.

11/15/2021 ISSUED FOR BID ADDENDUM  
PRELIMINARY - NOT FOR CONSTRUCTION

ED1.10





KEYED ELECTRICAL NEW WORK SHEET NOTES

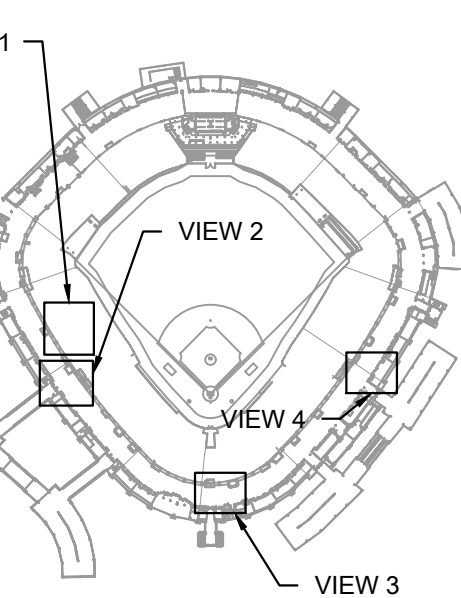
4. FURNISH AND INSTALL NEW JUNCTION BOX WITH A SWITCH FOR AIR CONDITIONING UNIT. EC SHALL EXTEND EXISTING BRANCH CIRCUIT AND CONDUT AS NECESSARY FOR NEW AIR CONDITIONING UNIT LOCATION. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
5. FURNISH AND INSTALL NEW 50A/2P CIRCUIT BREAKER IN PANEL RP1-4AC. EC SHALL MATCH NEW CIRCUIT BREAKERS MAKE, MODEL AND RATING TO EXISTING CIRCUIT BREAKERS IN THE PANELBOARD. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
6. FURNISH AND INSTALL NEW ABOVE CEILING CONDUIT AND WIRES FOR NEW MECHANICAL EQUIPMENT. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
7. FURNISH AND INSTALL NEW POWER FOR MECHANICAL EQUIPMENT. FURNISH AND INSTALL NEW 60A/2P DISCONNECT SWITCH AND ASSOCIATED CONDUIT AND WIRES FROM PANELBOARD RP1-4AC. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
8. FURNISH AND INSTALL NEW POWER FOR MECHANICAL EQUIPMENT. FURNISH AND INSTALL NEW JUNCTION BOX WITH A SWITCH AND ASSOCIATED CONDUIT AND WIRES FROM PANELBOARD RP1-3C. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
9. EC SHALL USE EXISTING SPARE CIRCUIT BREAKER AT #37 FOR NEW FAN COIL UNIT POWER.
10. FURNISH AND INSTALL NEW MECHANICAL EQUIPMENT WITH THE EXISTING BRANCH CIRCUIT. FURNISH AND INSTALL NEW 20A/2P JUNCTION BOX WITH A SWITCH FOR RETURN FAN. EC SHALL EXTEND EXISTING BRANCH CIRCUIT AND CONDUT AS NECESSARY FOR NEW RETURN FAN LOCATION. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION. EXISTING STARTER FOR RETURN FAN SHALL BE RE-USED FOR NEW POWER. EC SHALL CONFORM OPERATION.
11. FURNISH AND INSTALL 20A/2P TOGGLE SWITCH. FURNISH AND INSTALL POWER FROM CONDENSING UNIT CU-1 PER MANUFACTURER'S REQUEST.
12. FURNISH AND INSTALL NEW WATERPROOF, GFCI OUTDOOR RECEPTACLE. FURNISH AND INSTALL NEW BRANCH CIRCUIT FROM NEAREST RECEPTACLE CIRCUIT.



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## PLAN



## REVISION:

DATE	DESCRIPTION
11/05/21	ISSUED FOR BID
11/15/21	ISSUED FOR BID ADDENDUM

ECT:  
 GUARANTEED RATE FIELD -  
 C REPLACEMENT PHASE XI

W 35TH STREET,  
CHICAGO, ILLINOIS 60616

PROJECT TITLE:  
ELECTRICAL NEW WORK  
PLANS - CONCOURSE LEVEL  
ENLARGED PLANS

DESIGNED BY: TG

WORKED BY: BT

ECT NO: 21276

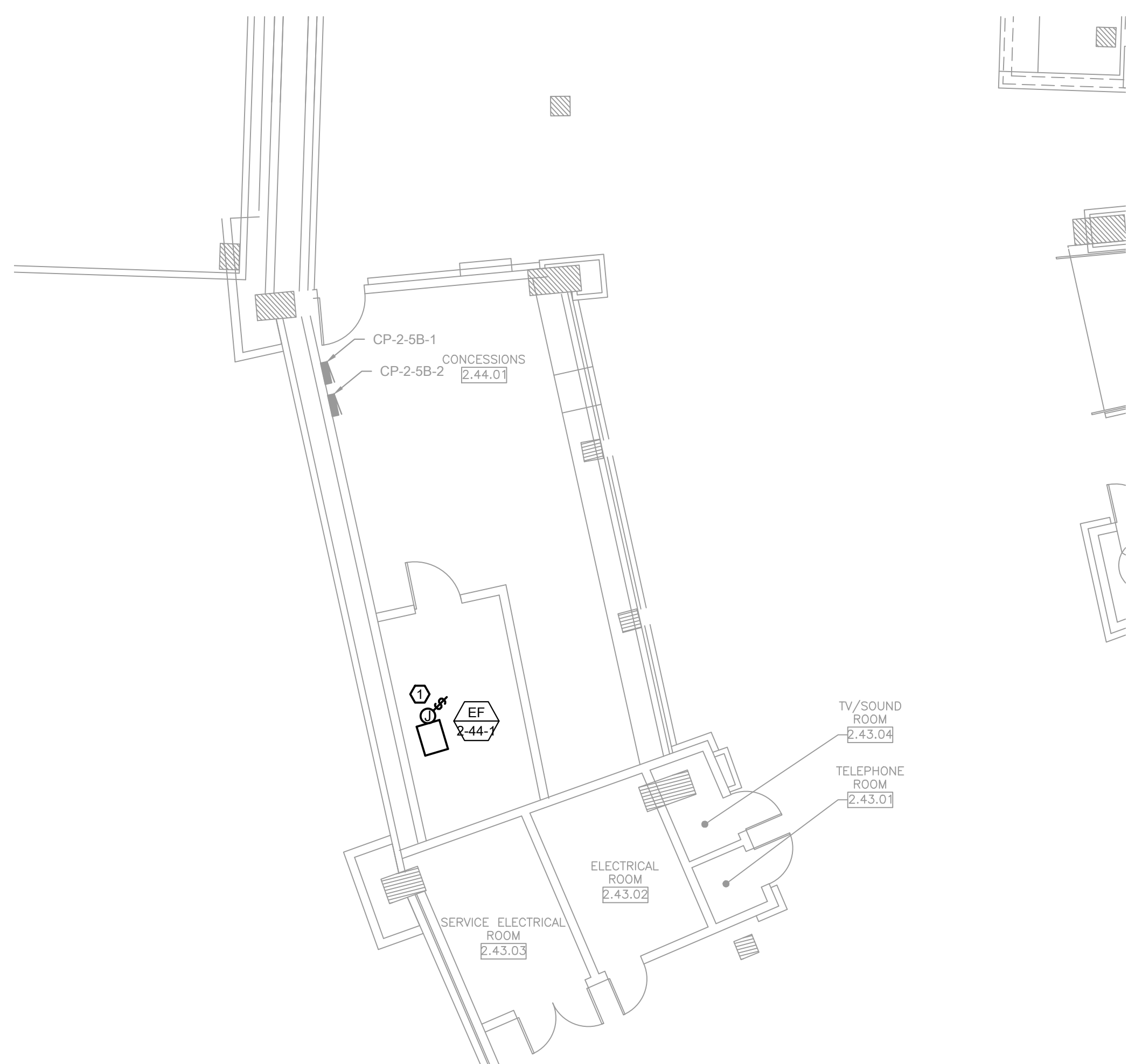
E:	$1/8" = 1'-0"$
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T NO.

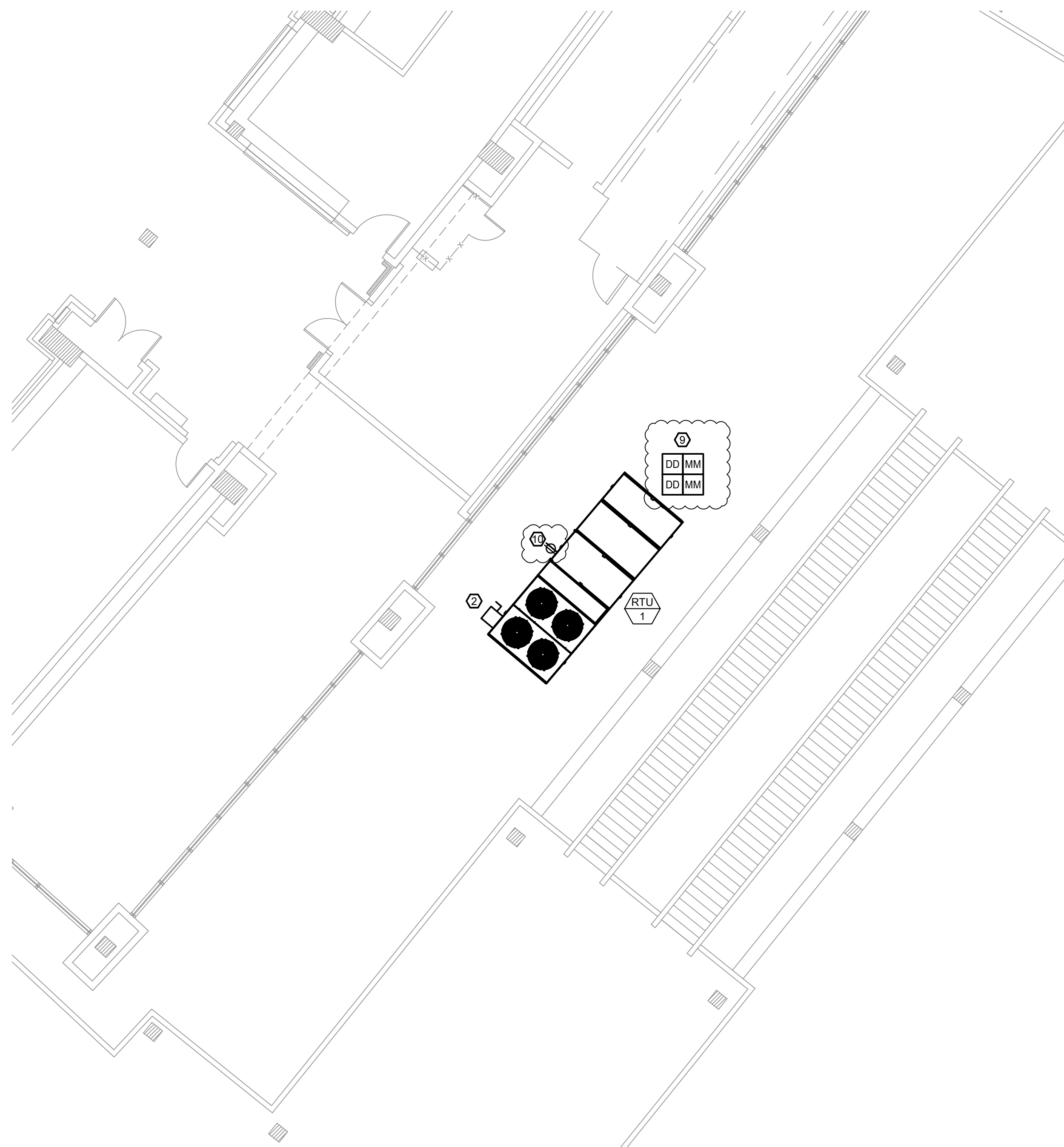
11/15/2021 ISSUED FOR BID ADDENDUM

PRELIMINARY - NOT FOR CONSTRUCTION

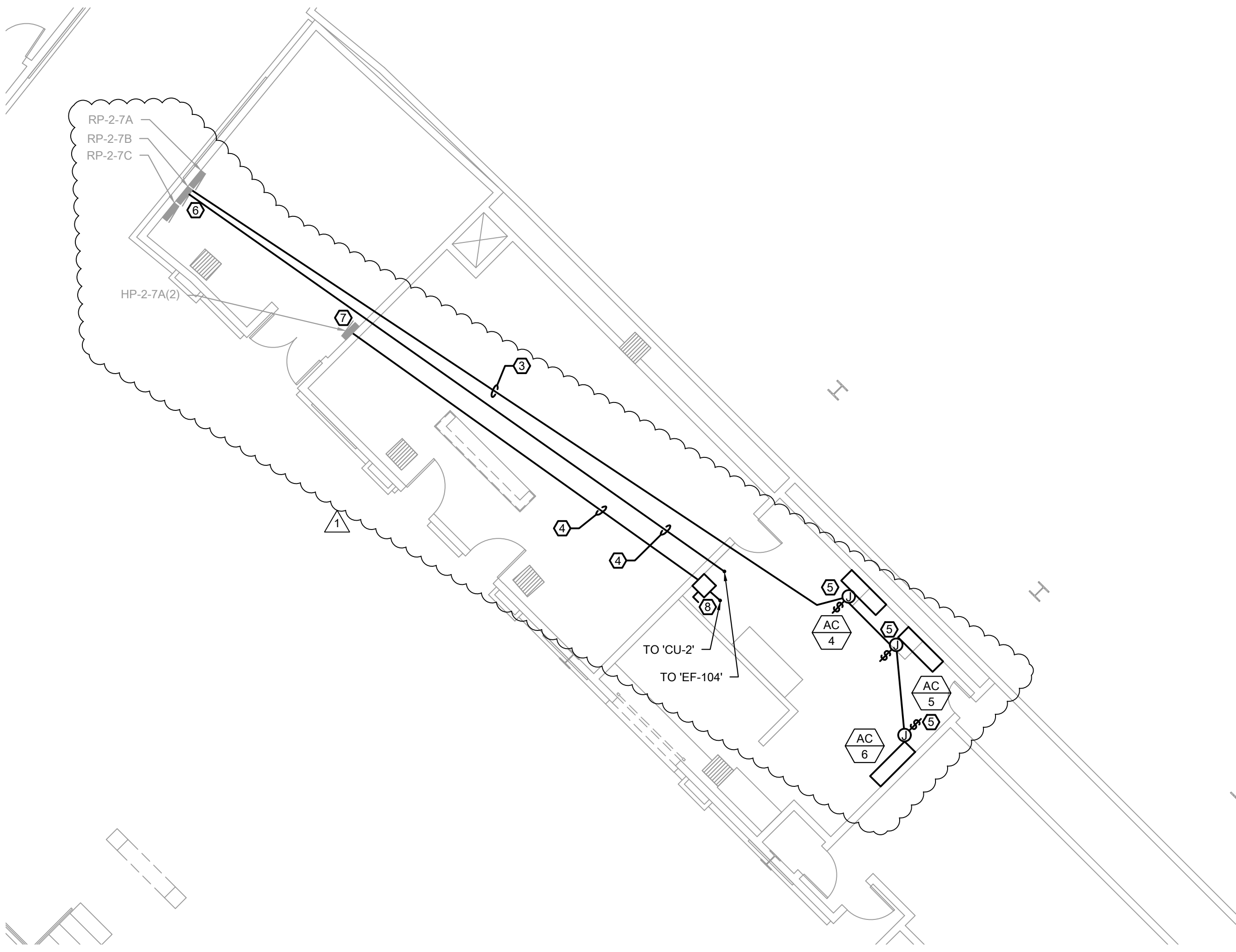
## E1.02



1 ELECTRICAL NEW WORK PLAN - SECTION 154 CONCESSION COOLING  
SCALE: 1/8" = 1'-0"



2 ELECTRICAL NEW WORK PLAN - SCOUTS LOUNGE ROOF  
SCALE: 1/8" = 1'-0"



3 ELECTRICAL NEW WORK PLAN - SECTION 105 ICE CREAM  
SCALE: 1/8" = 1'-0"

KEYED ELECTRICAL NEW WORK SHEET NOTES

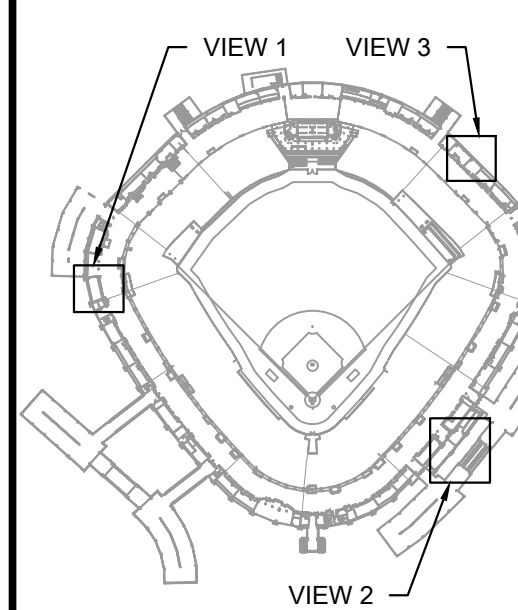
- FURNISH AND INSTALL NEW POWER FOR MECHANICAL EQUIPMENT VIA THE EXISTING BRANCH CIRCUIT. FURNISH AND INSTALL NEW JUNCTION BOX WITH A SWITCH FOR EXHAUST FAN. EC SHALL EXTEND EXISTING BRANCH CIRCUIT AND CONDUIT AS NECESSARY FOR NEW EXHAUST FAN LOCATION. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
- FURNISH AND INSTALL NEW POWER AND ASSOCIATED CONDUIT AND WIRES FOR NEW ROOFTOP UNIT. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION. EC SHALL EXTEND EXISTING CONDUIT AND FEEDER FOR NEW ROOFTOP UNIT. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION. EC SHALL CONFIRM THAT EXISTING OCPD SERVING THE EXISTING ROOFTOP UNIT IS RATED AT 150A. IF IT IS NOT EXACTLY 150A, THEN EC SHALL NOTIFY ELECTRICAL ENGINEER IMMEDIATELY.
- FURNISH AND INSTALL NEW OVERHEAD CONDUIT AND WIRES FOR NEW MECHANICAL EQUIPMENT FROM EXISTING PANELBOARD SHOWN. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
- FURNISH AND INSTALL NEW OVERHEAD CONDUIT AND WIRES FROM EXISTING PANELBOARD SHOWN FOR NEW MECHANICAL EQUIPMENT ON ROOF ABOVE. REFER TO SHEET E1.06 FOR LOCATION OF MECHANICAL EQUIPMENT. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION. EC SHALL CORE THROUGH THE EXISTING CEILING FOR NEW CONDUITS. EC SHALL SCAN CEILING PRIOR TO CORING. EC SHALL FILL CEILING CORE AFTER INSTALLATION OF NEW CONDUITS WITH FIRE STOPPING CAULK.
- FURNISH AND INSTALL NEW POWER AND ASSOCIATED CONDUIT AND WIRES FOR NEW AIR CONDITIONING UNITS. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
- FURNISH AND INSTALL NEW 15A/2P CIRCUIT BREAKER IN SPARE #40.42 FOR NEW AIR CONDITIONING UNITS SHOWN ON PLAN. EC SHALL DISCONNECT AND REMOVE THE (2) EXISTING 20A/1P SPARE CIRCUIT BREAKERS IN ORDER TO INSTALL NEW 15A/2P CIRCUIT BREAKER FOR AIR CONDITIONING UNITS. FURNISH AND INSTALL 15A/1P CIRCUIT BREAKER IN EXISTING SPACE #36 FOR NEW EXHAUST FAN SHOWN ON SHEET E1.06.
- FURNISH AND INSTALL NEW 30A/3P CIRCUIT BREAKER FOR NEW CONDENSING UNIT ON ROOF. EC SHALL DISCONNECT AND REMOVE THE (3) EXISTING 20A/1P SPARE CIRCUIT BREAKERS FOR THE INSTALLATION OF THE NEW 30A/3P CIRCUIT BREAKER FOR THE NEW CONDENSING UNIT SHOWN ON SHEET E1.06.
- EC SHALL FURNISH AND INSTALL NEW 30A DISCONNECT SWITCH FOR NEW CONDENSING UNIT ON ROOF. EC SHALL COORDINATE DISCONNECT SWITCH LOCATION WITH MECHANICAL CONTRACTOR AND OWNER.
- FURNISH AND INSTALL DUCT SMOKE DETECTOR WITH SAMPLING TUBES ON SUPPLY AND RETURN SIDE OF THE DUCT. EC SHALL COORDINATE WITH MC FOR BEST LOCATION OF DUCT SMOKE DETECTORS. FURNISH AND INSTALL FIRE ALARM MONITOR MODULE FOR EACH DUCT SMOKE DETECTOR AND REMOTE TEST SWITCH. FURNISH AND INSTALL FIRE ALARM CABLE IN CONDUIT TO EXISTING FIRE ALARM CONTROL PANEL LOCATED NEAR THE COMMAND CENTER ON GROUND LEVEL.
- FURNISH AND INSTALL NEW WATERPROOF, GFCI OUTDOOR RECEPTACLE. FURNISH AND INSTALL NEW BRANCH CIRCUIT FROM NEAREST RECEPTACLE CIRCUIT.



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KEY PLAN



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REV.	DATE	DESCRIPTION
-	11/05/21	ISSUED FOR BID
A	11/15/21	ISSUED FOR BID ADDENDUM

PROJECT:  
GUARANTEED RATE FIELD -  
HVAC REPLACEMENT PHASE XI

333 W 35TH STREET,  
CHICAGO, ILLINOIS 60616

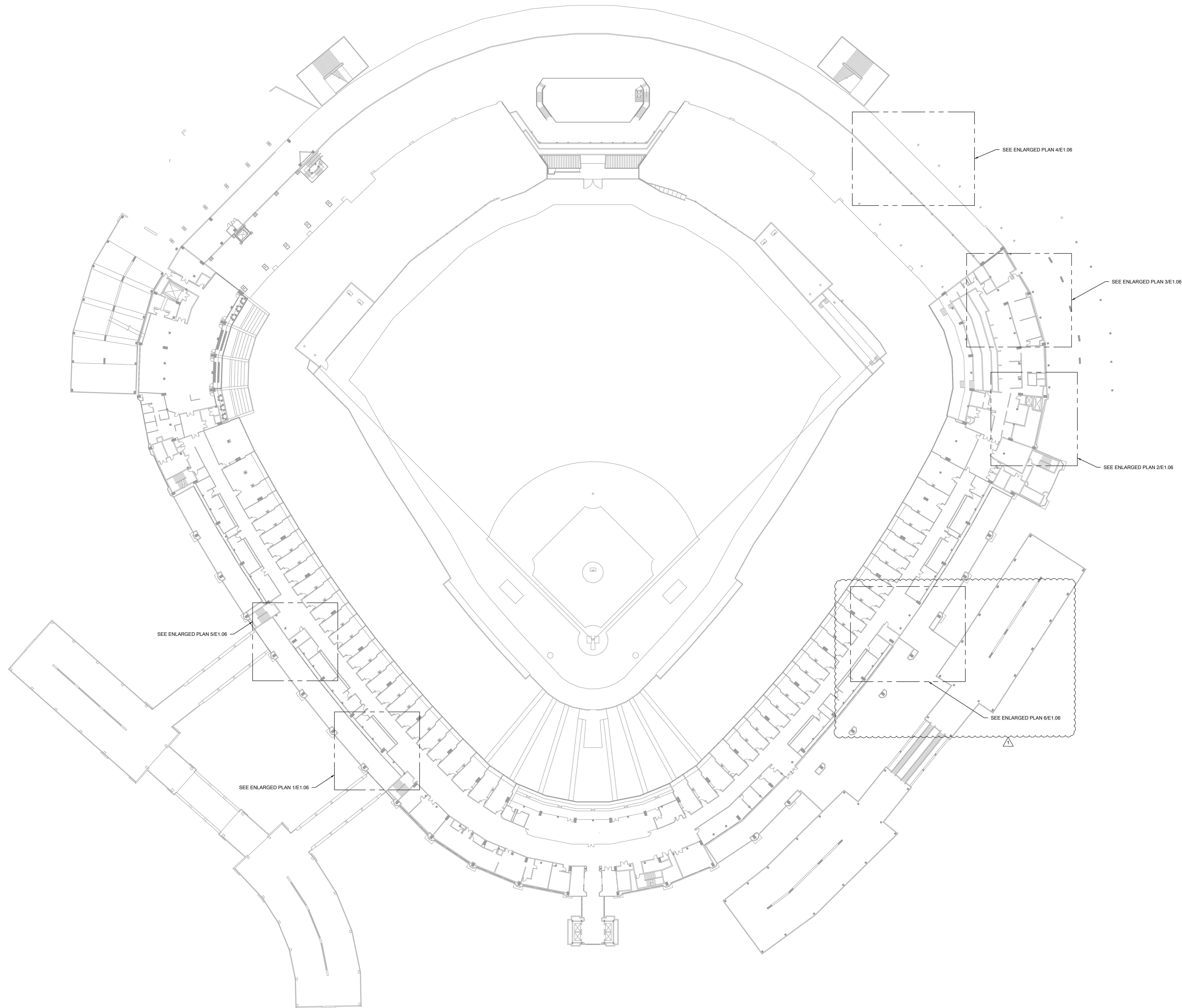
DRAWING TITLE:  
ELECTRICAL NEW WORK  
PLANS - 100 LEVEL ENLARGED  
PLANS

DESIGNED BY:	TG
CHECKED BY:	BT
PROJECT NO:	21276
SCALE:	1/8" = 1'-0"
SHEET NO.	

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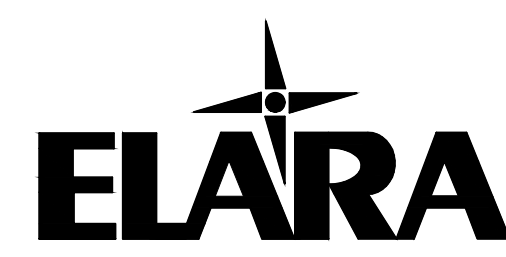
E1.04





**1 ELECTRICAL NEW WORK PLAN - 200 LEVEL OVERALL**

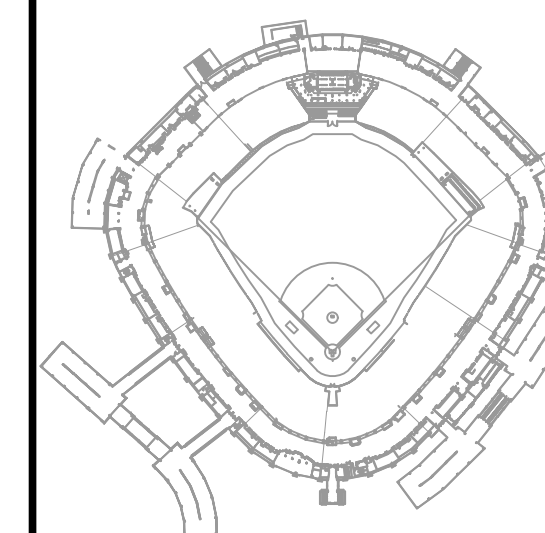
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KEY PLAN



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Δ	11/15/21	ISSUED FOR BID ADDENDUM

PROJECT:  
GUARANTEED RATE FIELD -  
HVAC REPLACEMENT PHASE XI

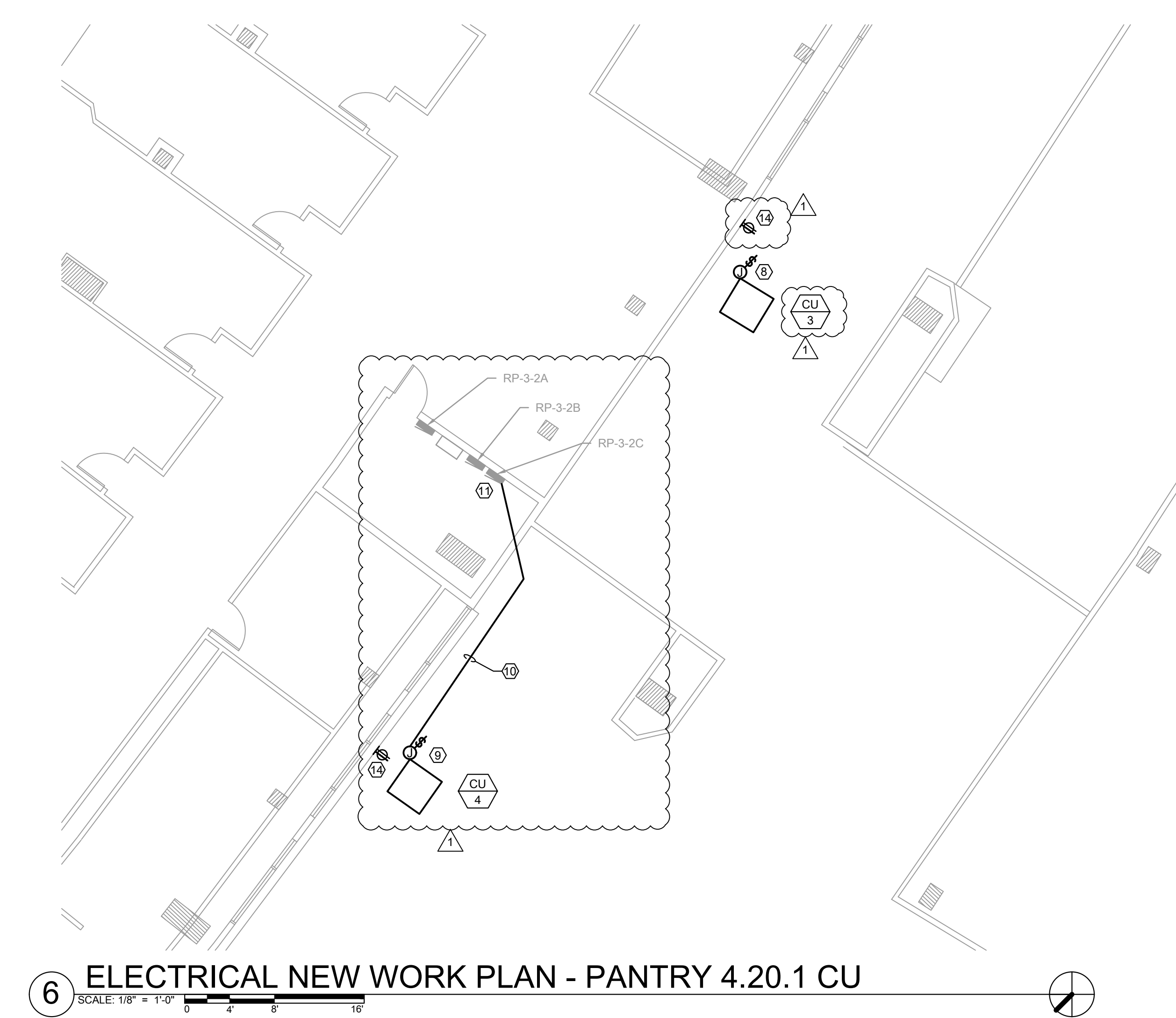
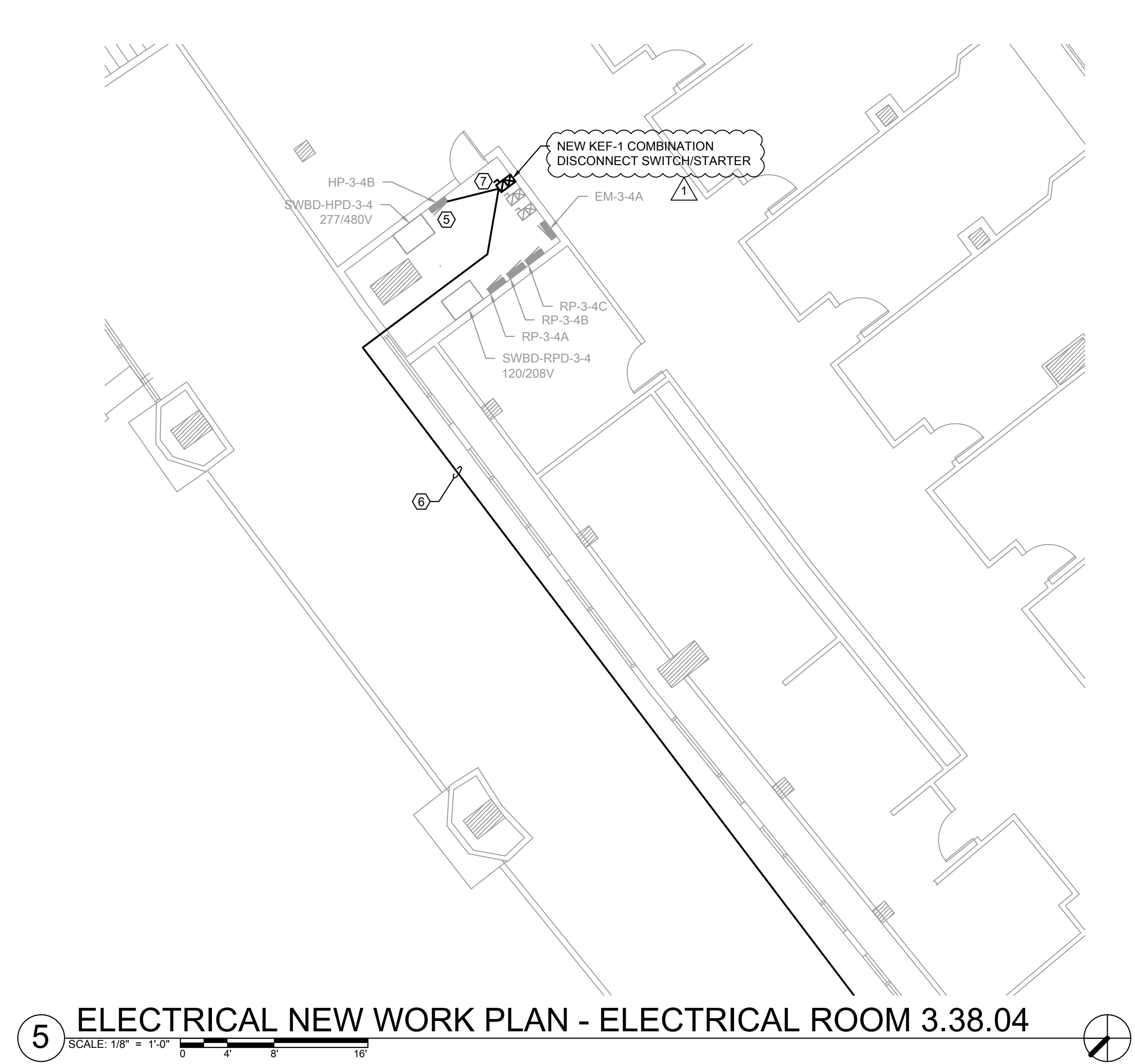
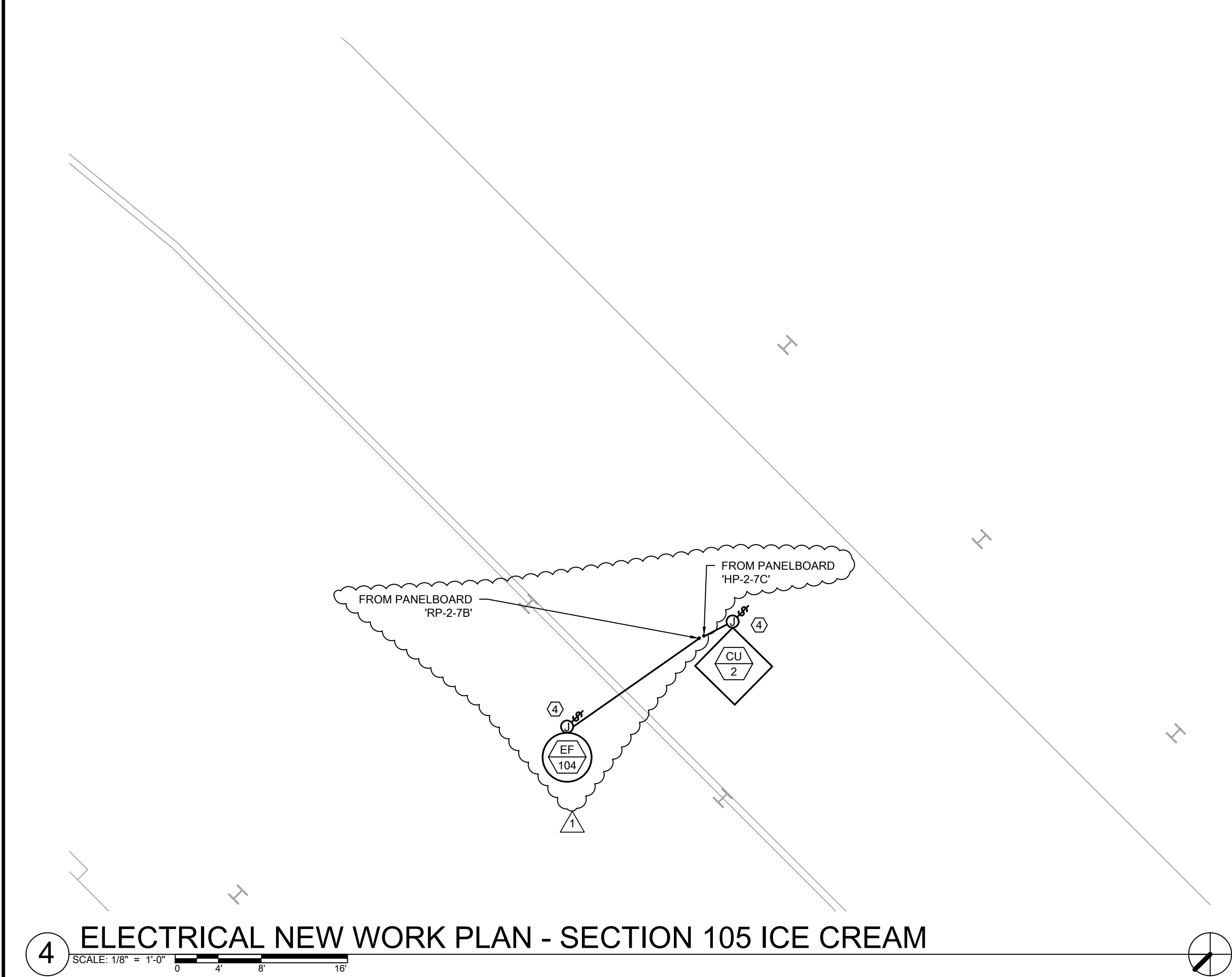
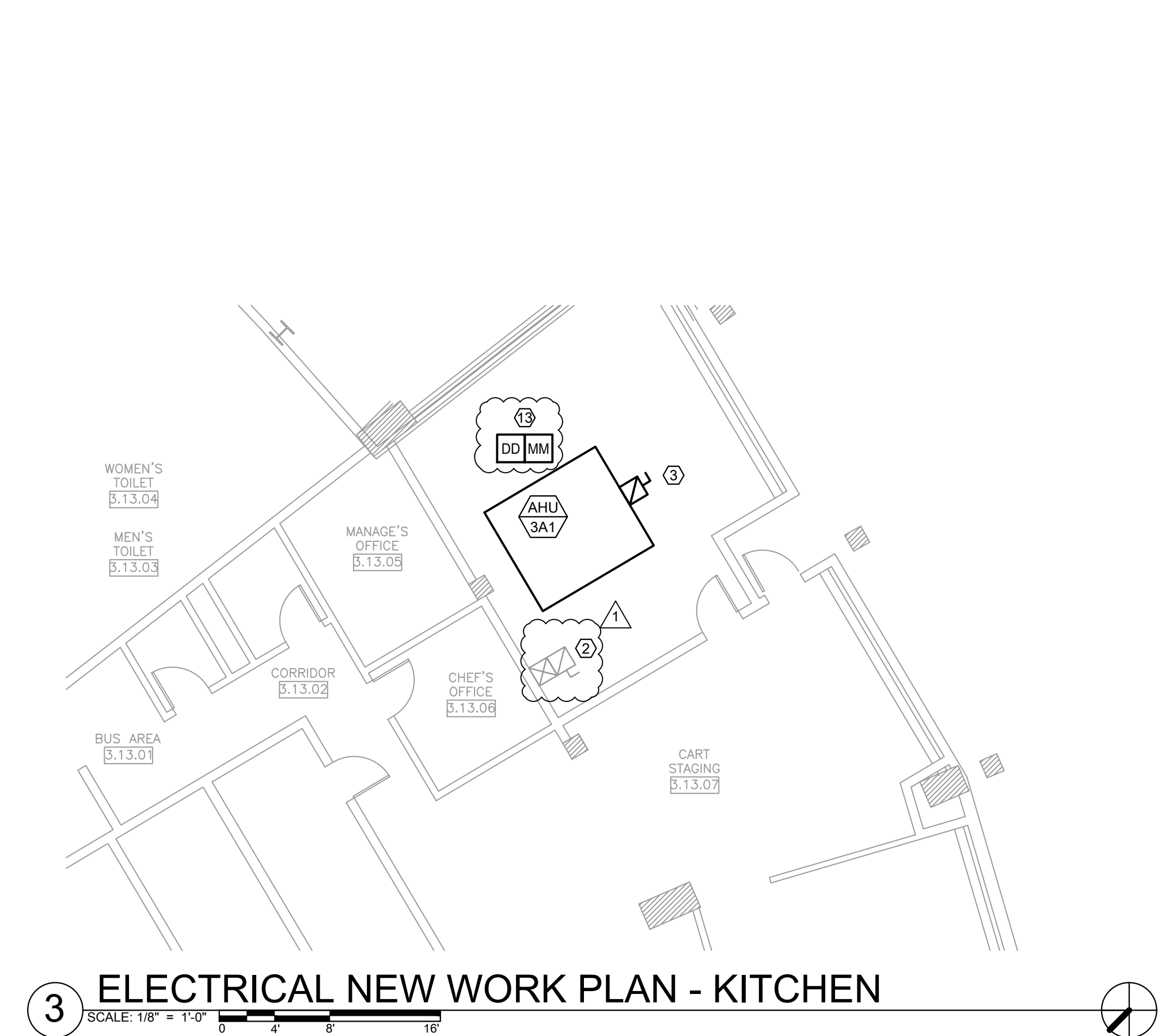
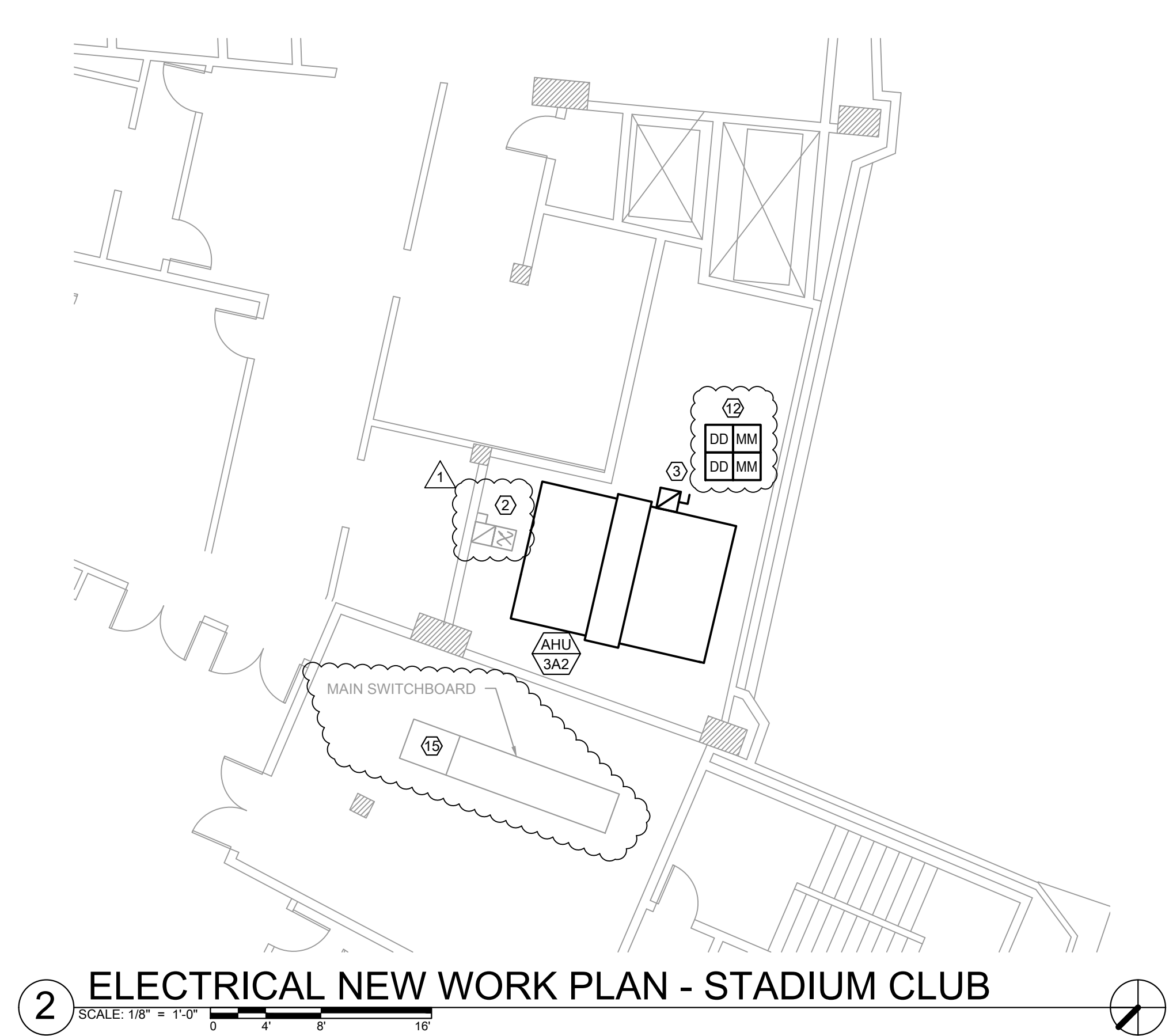
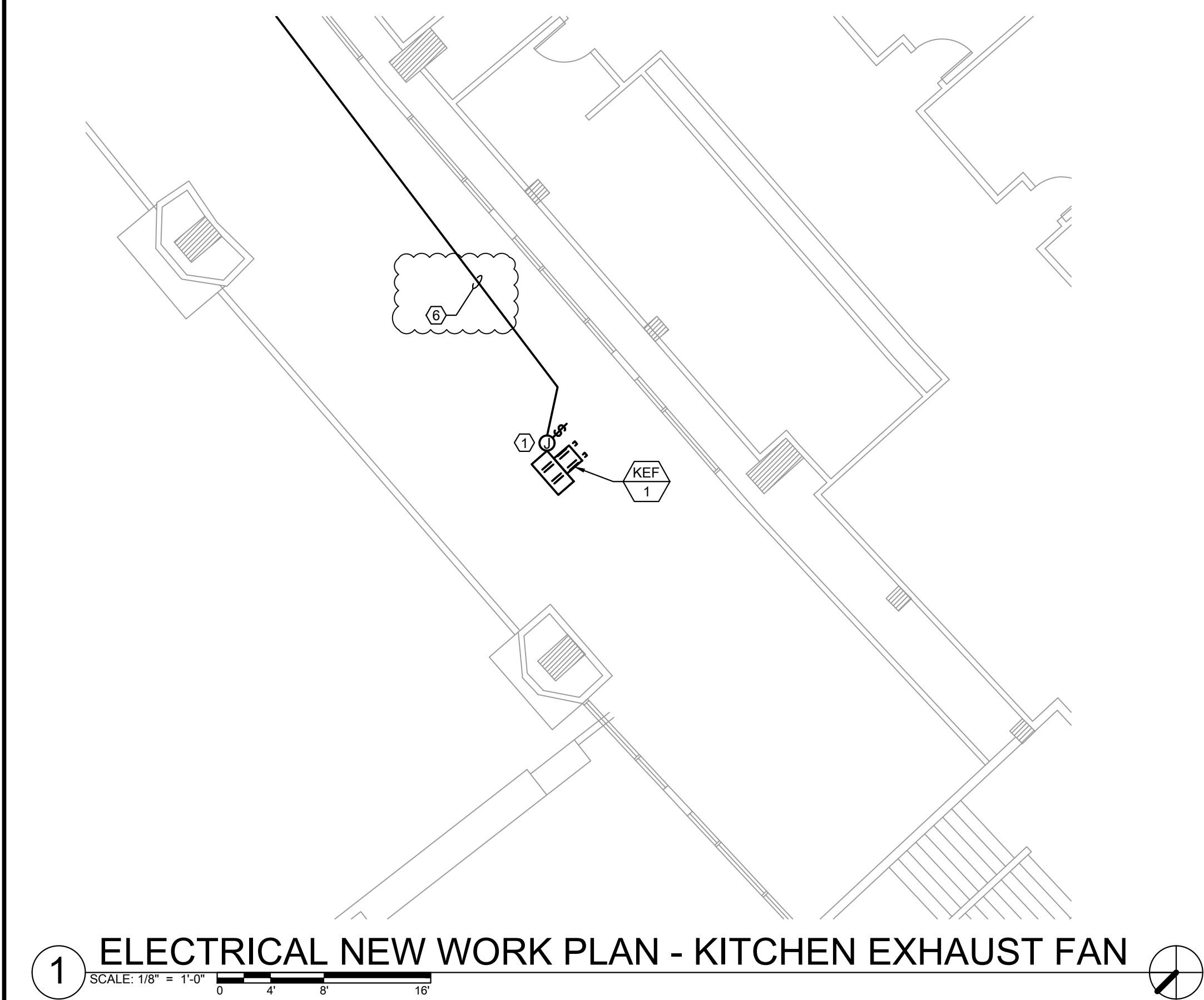
333 W 35TH STREET,  
CHICAGO, ILLINOIS 60616

DRAWING TITLE:  
ELECTRICAL NEW WORK PLAN  
- 200 LEVEL OVERALL

DESIGNED BY:	TG
CHECKED BY:	BT
PROJECT NO:	21276
SCALE:	1/32" = 1'-0"
SHEET NO.	

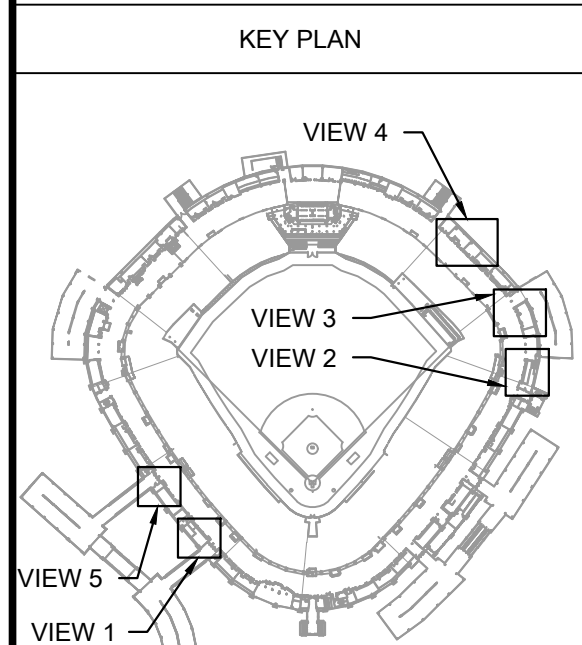
11/15/2021 ISSUED FOR BID ADDENDUM  
**PRELIMINARY - NOT FOR CONSTRUCTION**

**E1.05**



- KEYED ELECTRICAL NEW WORK SHEET NOTES**
- FURNISH AND INSTALL NEW POWER FOR MECHANICAL EQUIPMENT WITH INTEGRAL DISCONNECT SWITCH. FURNISH AND INSTALL NEW CONDUIT AND WIRES FROM PANELBOARD. REFER TO HVAC EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
  - EXISTING VFD OR STARTER SHOWN SHALL REMAIN. EC SHALL RE-USE EXISTING FEEDER AND CONDUIT TO EXISTING VFD OR STARTER SHOWN. FURNISH AND INSTALL NEW CONDUIT AND WIRES FROM VFD OR STARTER SHOWN TO EQUIPMENT. REFER TO HVAC EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
  - FURNISH AND INSTALL NEW POWER AND ASSOCIATED CONDUIT AND FEEDER FOR MECHANICAL EQUIPMENT. EC SHALL RE-USE EXISTING FEEDER AND CONDUIT TO NEW ELECTRIC HEATING COIL DISCONNECT SWITCH. FURNISH AND INSTALL NEW DISCONNECT SWITCH FOR ELECTRIC HEATING COIL. EC SHALL EXTEND EXISTING CONDUIT AND FEEDER AS REQUIRED. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
  - FURNISH AND INSTALL NEW POWER FOR MECHANICAL EQUIPMENT. FURNISH AND INSTALL NEW JUNCTION BOX WITH A SWITCH AND ASSOCIATED CONDUIT AND WIRES FROM PANELBOARD SHOWN ON E1.04. REFER TO HVAC EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
  - FURNISH AND INSTALL NEW 15A/3P CIRCUIT BREAKER FOR NEW KITCHEN EXHAUST FAN. REFER TO VIEW #1 FOR KITCHEN EXHAUST FAN LOCATION. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION. EC SHALL DISCONNECT AND REMOVE (3) EXISTING 20A/1P SPARE CIRCUIT BREAKERS FOR THE INSTALLATION OF NEW CIRCUIT BREAKER. EC SHALL MATCH THE MAKE, MODEL, AND AIC RATING OF THE EXISTING CIRCUIT BREAKERS IN THE PANELBOARD.
  - FURNISH AND INSTALL NEW CONDUIT AND WIRES FOR NEW KITCHEN EXHAUST FAN PER THE MECHANICAL EQUIPMENT WIRING SCHEDULE.
  - FURNISH AND INSTALL NEW 30A RATED COMBINATION DISCONNECT SWITCH/STARTER FOR NEW KITCHEN EXHAUST FAN. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION. EC SHALL PROVIDE INTERLOCK WITH EXISTING KITCHEN HOOD BELOW NEW EXHAUST FAN LOCATION FOR ON/OFF OPERATION INTERLOCKED WITH KITCHEN HOOD.
  - FURNISH AND INSTALL NEW POWER FOR MECHANICAL EQUIPMENT WITH INTEGRAL DISCONNECT SWITCH VIA THE EXISTING BRANCH CIRCUIT. EC SHALL EXTEND EXISTING BRANCH CIRCUIT AND CONDUIT AS NECESSARY FOR NEW CONDENSING UNIT LOCATION. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
  - FURNISH AND INSTALL NEW POWER FOR MECHANICAL EQUIPMENT. FURNISH AND INSTALL NEW JUNCTION BOX WITH A SWITCH AND ASSOCIATED CONDUIT AND WIRES FROM PANELBOARD. REFER TO HVAC EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
  - FURNISH AND INSTALL NEW CONDUIT AND WIRES FOR NEW CONDENSING UNIT PER THE MECHANICAL EQUIPMENT WIRING SCHEDULE.
  - FURNISH AND INSTALL NEW 50A/2P CIRCUIT BREAKER FOR NEW CONDENSING UNIT. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION. EC SHALL DISCONNECT AND REMOVE (2) EXISTING SPARE CIRCUIT BREAKERS FOR THE INSTALLATION OF NEW CIRCUIT BREAKER. EC SHALL MATCH THE MAKE, MODEL, AND AIC RATING OF THE EXISTING CIRCUIT BREAKERS IN THE PANELBOARD.
  - FURNISH AND INSTALL DUCT SMOKE DETECTOR WITH SAMPLING TUBES ON SUPPLY AND RETURN SIDE OF THE DUCT. EC SHALL COORDINATE WITH MC FOR BEST LOCATION OF DUCT SMOKE DETECTORS. FURNISH AND INSTALL FIRE ALARM MONITOR MODULE FOR EACH DUCT SMOKE DETECTOR AND REMOTE TEST SWITCH. FURNISH AND INSTALL FIRE ALARM CABLE IN CONDUIT TO EXISTING FIRE ALARM CONTROL PANEL LOCATED NEAR THE COMMAND CENTER ON GROUND LEVEL.
  - FURNISH AND INSTALL DUCT SMOKE DETECTOR WITH SAMPLING TUBES ON RETURN SIDE OF THE DUCT. EC SHALL COORDINATE WITH MC FOR BEST LOCATION OF DUCT SMOKE DETECTOR. FURNISH AND INSTALL FIRE ALARM MONITOR MODULE FOR DUCT SMOKE DETECTOR AND REMOTE TEST SWITCH. FURNISH AND INSTALL FIRE ALARM CABLE IN CONDUIT TO EXISTING FIRE ALARM CONTROL PANEL LOCATED NEAR THE COMMAND CENTER ON GROUND LEVEL.
  - FURNISH AND INSTALL NEW WATERPROOF, GFCI OUTDOOR RECEPTACLE. FURNISH AND INSTALL NEW BRANCH CIRCUIT FROM NEAREST RECEPTACLE CIRCUIT.
  - FURNISH AND INSTALL NEW FUSES FOR EACH NEW AHU ELECTRIC HEATING COIL. FURNISH AND INSTALL (3) NEW 350A FUSES FOR AHU-3A1 ELECTRIC HEATING COIL. FURNISH AND INSTALL (3) NEW 350A FUSES FOR AHU-3A2 ELECTRIC HEATING COIL. FURNISH AND INSTALL (3) NEW 150A FUSES FOR AHU-6B1 ELECTRIC HEATING COIL.

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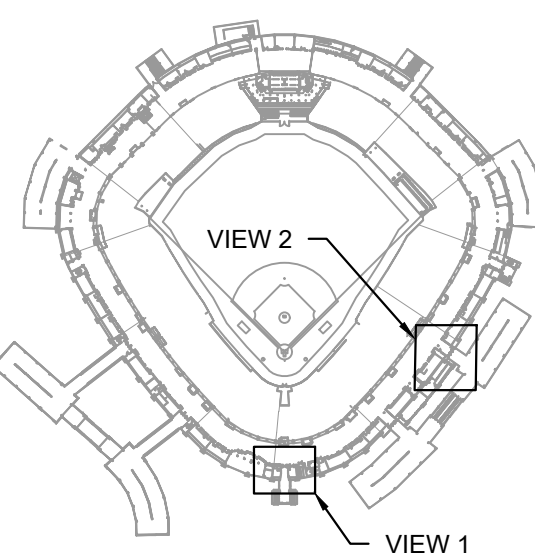
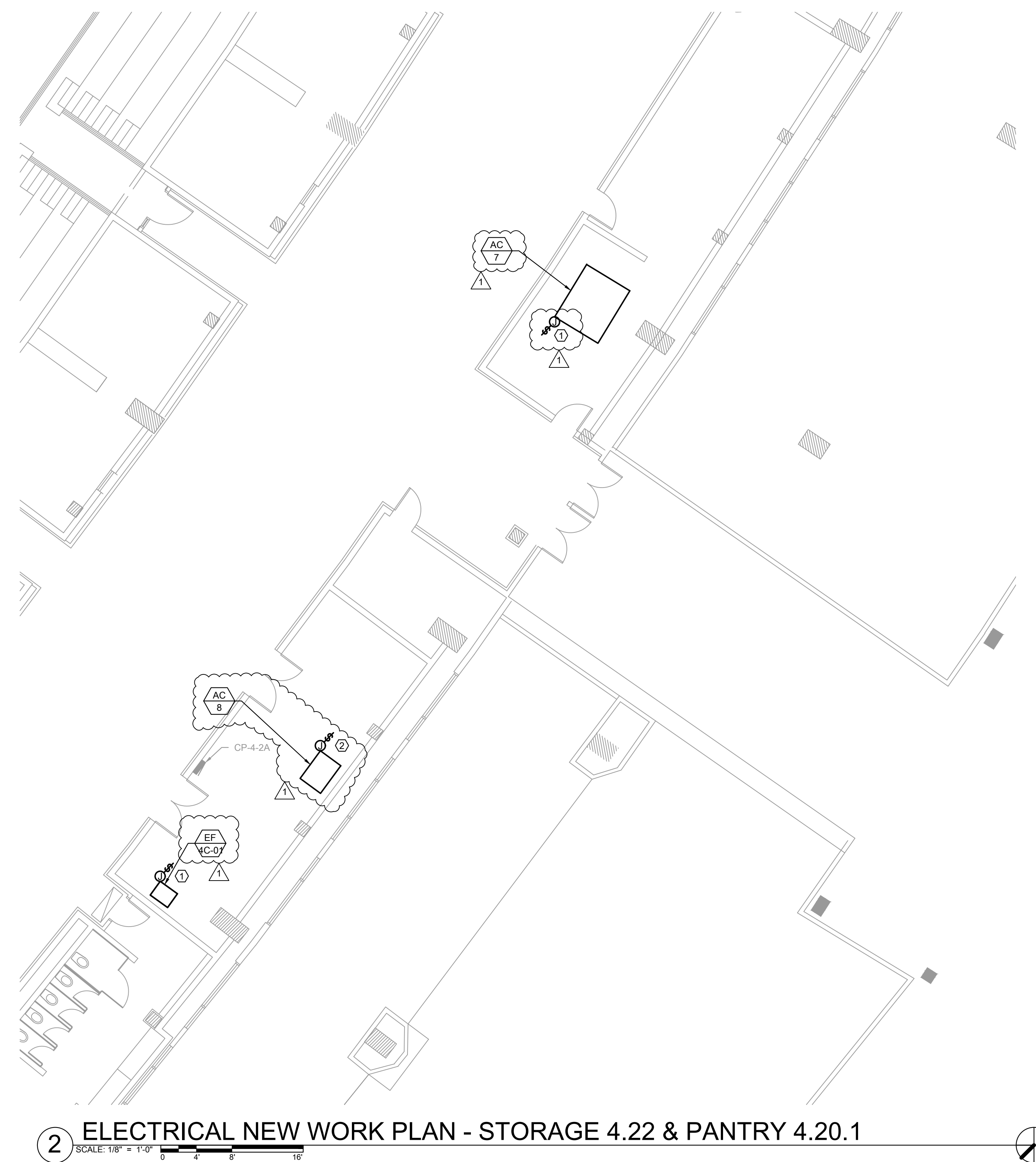
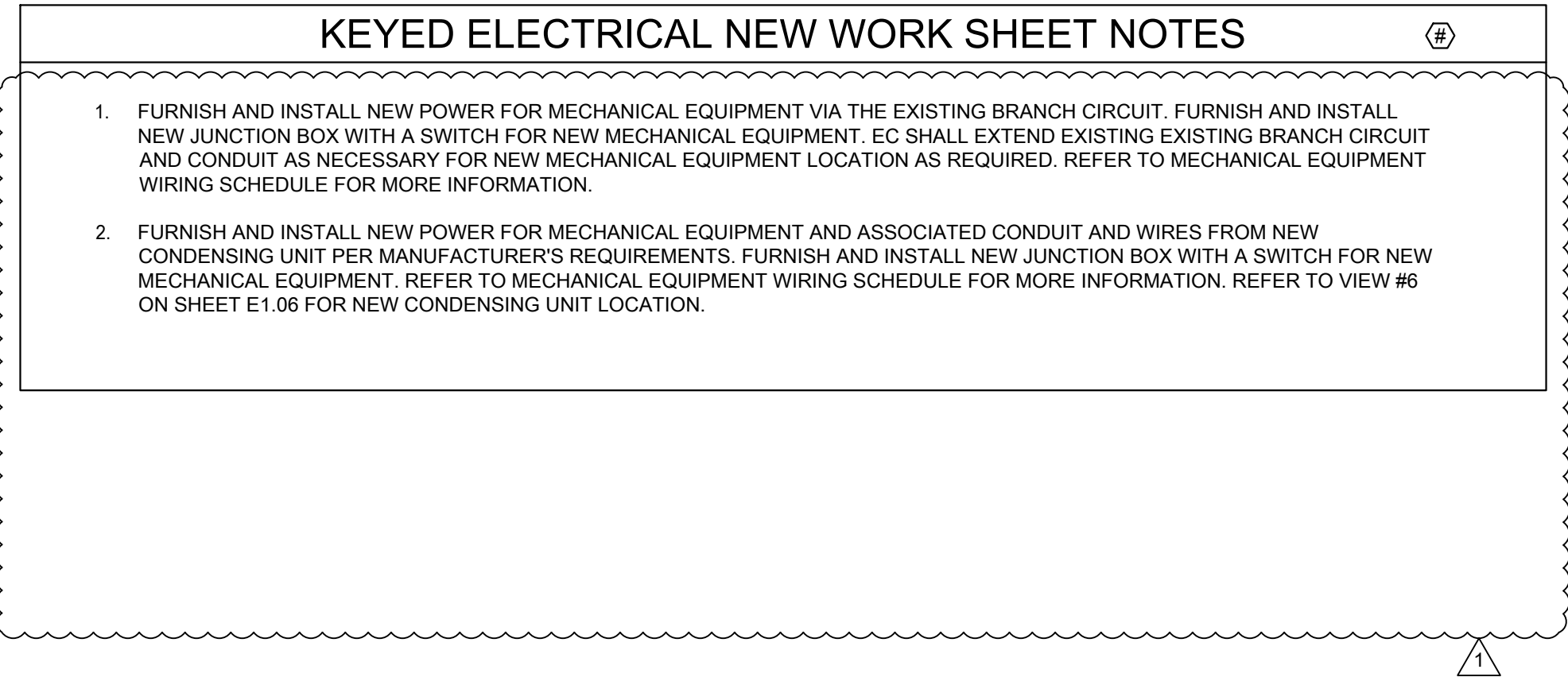
ISSUE/REVISION:		
REV.	DATE	DESCRIPTION
-	11/05/21	ISSUED FOR BID
A	11/15/21	ISSUED FOR BID ADDENDUM

PROJECT:  
GUARANTEED RATE FIELD -  
HVAC REPLACEMENT PHASE XI  
333 W 35TH STREET,  
CHICAGO, ILLINOIS 60616

DRAWING TITLE:  
ELECTRICAL NEW WORK  
PLANS - 200 LEVEL ENLARGED  
PLANS

DESIGNED BY: TG  
CHECKED BY: BT  
PROJECT NO: 21276  
SCALE: 1/8" = 1'-0"  
SHEET NO.



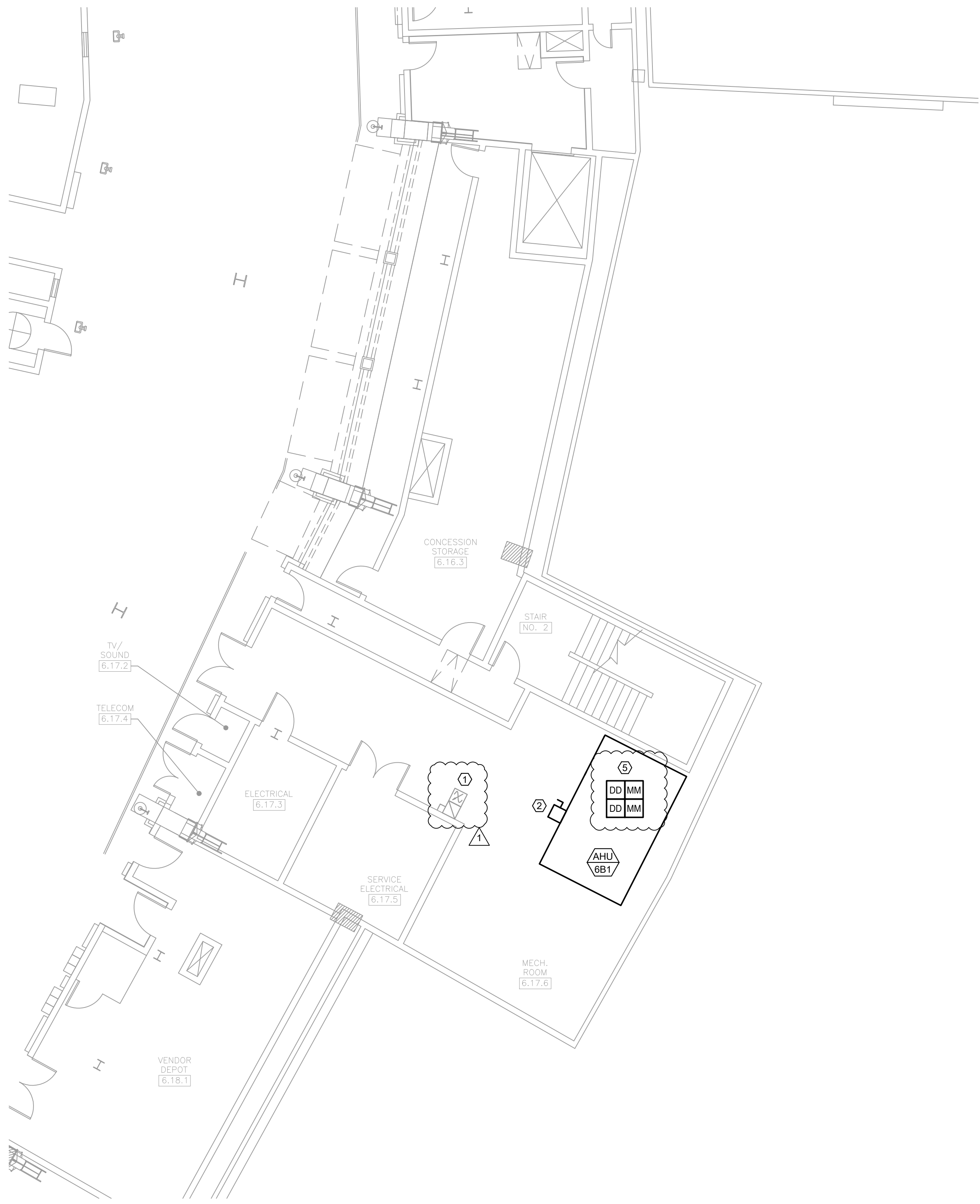
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PROJECT:  
GUARANTEED RATE FIELD -  
HVAC REPLACEMENT PHASE XI  
  
333 W 35TH STREET,  
CHICAGO, ILLINOIS 60616

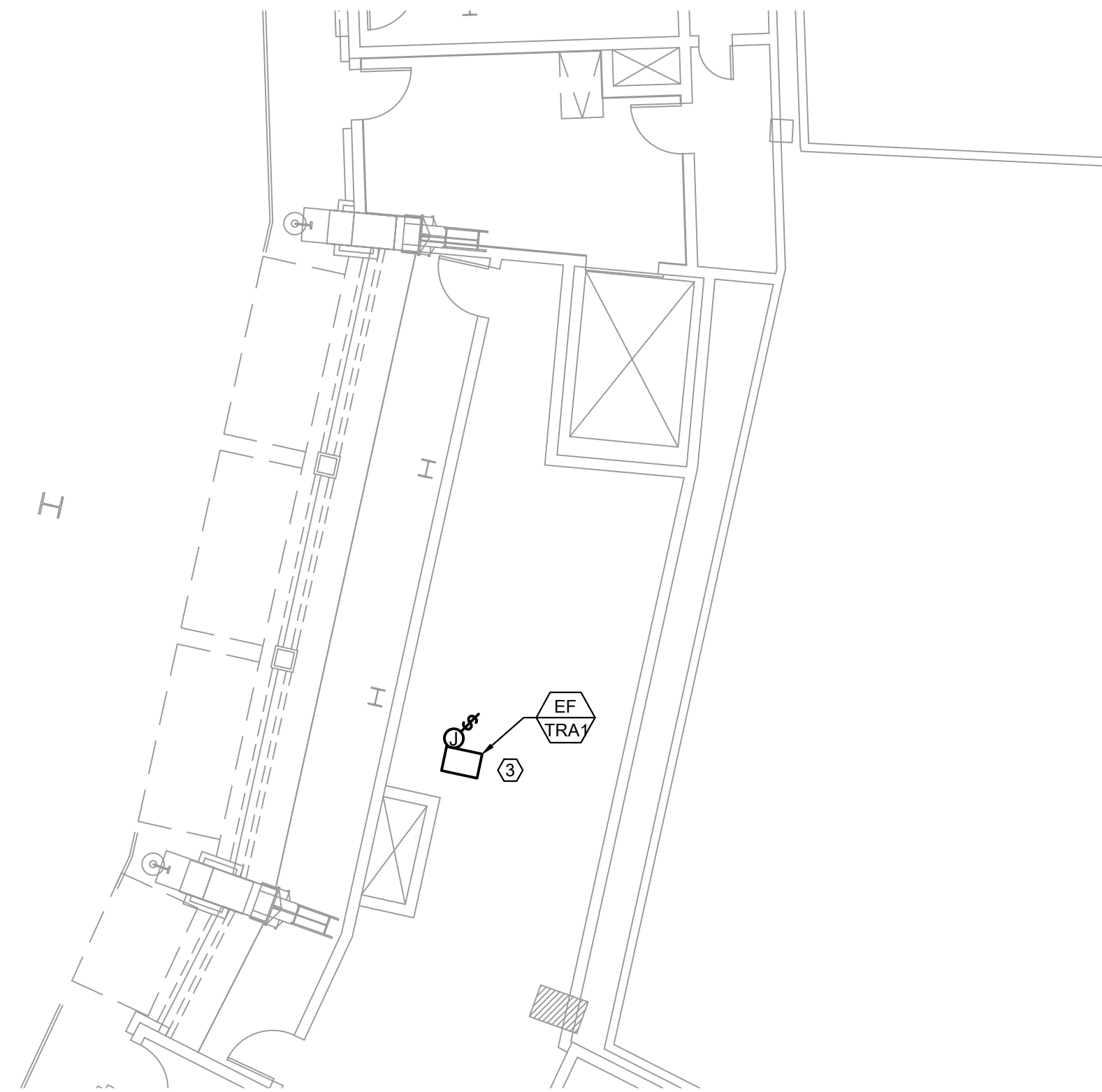
DRAWING TITLE:  
ELECTRICAL NEW WORK  
PLANS - 300 LEVEL ENLARGED  
PLANS

DESIGNED BY:	TG
CHECKED BY:	BT
PROJECT NO:	21276
SCALE:	1/8" = 1'-0"

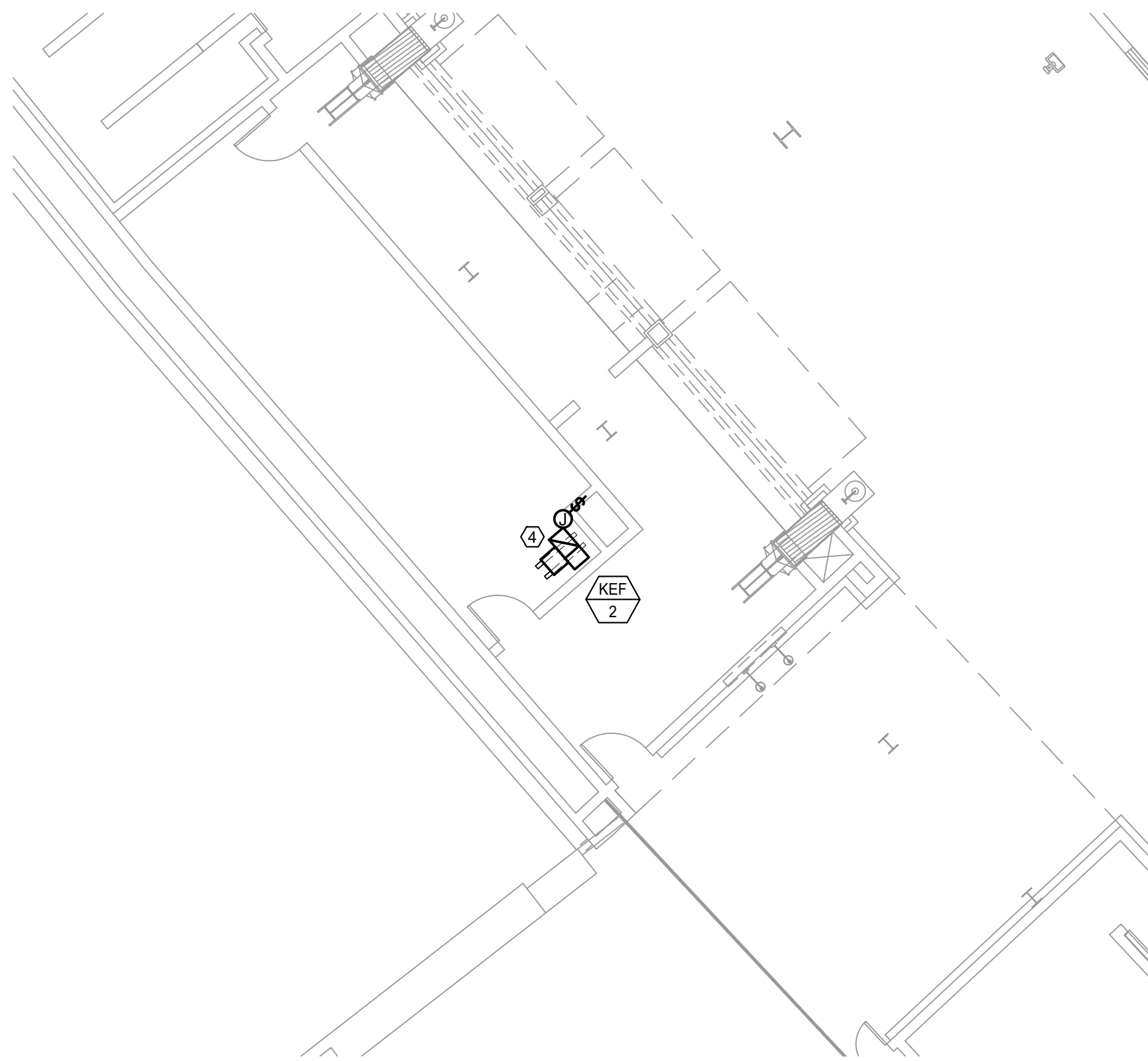
SHEET NO.



1 ELECTRICAL NEW WORK PLAN - STADIUM CLUB AHU 6B1  
SCALE: 1/8" = 1'-0"



2 ELECTRICAL NEW WORK PLAN - TRASH CHUTE EXHAUST ROOF PLAN  
SCALE: 1/8" = 1'-0"



3 ELECTRICAL NEW WORK PLAN - KITCHEN EXHAUST DUCT ROOF PLAN  
SCALE: 1/8" = 1'-0"

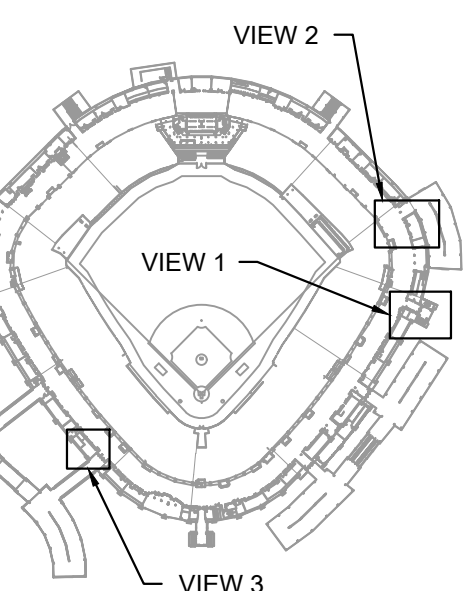
KEYED ELECTRICAL NEW WORK SHEET NOTES	
1.	EXISTING VFD SHALL REMAIN. FURNISH AND INSTALL NEW POWER AND ASSOCIATED FEEDER AND CONDUIT FOR MECHANICAL EQUIPMENT. EC SHALL RE-USE EXISTING FEEDER AND CONDUIT TO EXISTING VFD. FURNISH AND INSTALL NEW CONDUIT AND WIRES FROM VFD TO EQUIPMENT. REFER TO HVAC EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
2.	FURNISH AND INSTALL NEW POWER AND ASSOCIATED CONDUIT AND FEEDER FOR MECHANICAL EQUIPMENT. EC SHALL RE-USE EXISTING FEEDER AND CONDUIT TO NEW ELECTRIC HEATING COIL. DISCONNECT SWITCH. FURNISH AND INSTALL NEW DISCONNECT SWITCH FOR ELECTRIC HEATING COIL. EC SHALL EXTEND EXISTING CONDUIT AND FEEDER AS REQUIRED. REFER TO HVAC EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
3.	FURNISH AND INSTALL NEW POWER FOR MECHANICAL EQUIPMENT VIA THE EXISTING CONDUIT AND WIRES. EC SHALL RE-USE EXISTING STARTER IN ELECTRICAL ROOM 6.17.03. EC SHALL EXTEND EXISTING CONDUIT AND WIRES AS NECESSARY FOR NEW EXHAUST FAN LOCATION. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION. EC SHALL REPLACE EXISTING STARTER OVERLOAD TO MATCH NEW MOTOR NAMEPLATE DATA.
4.	FURNISH AND INSTALL NEW POWER FOR MECHANICAL EQUIPMENT VIA THE EXISTING CONDUIT AND WIRES. EC SHALL RE-USE EXISTING VARIABLE FREQUENCY DRIVE IN ELECTRICAL ROOM 6.38.03 FOR NEW EXHAUST FAN. EC SHALL EXTEND EXISTING CONDUIT AND WIRES AS NECESSARY FOR NEW EXHAUST FAN LOCATION. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION. EC SHALL PROVIDE INTERLOCK WITH EXISTING KITCHEN HOOD BELOW NEW EXHAUST FAN LOCATION FOR ON/OFF OPERATION INTERLOCKED WITH KITCHEN HOOD.
5.	FURNISH AND INSTALL DUCT SMOKE DETECTOR WITH SAMPLING TUBES ON RETURN SIDE OF THE DUCT. EC SHALL COORDINATE WITH MC FOR BEST LOCATION OF DUCT SMOKE DETECTOR. FURNISH AND INSTALL FIRE ALARM MONITOR MODULE FOR DUCT SMOKE DETECTOR AND REMOTE TEST SWITCH. FURNISH AND INSTALL FIRE ALARM CABLE IN CONDUIT TO EXISTING FIRE ALARM CONTROL PANEL LOCATED NEAR THE COMMAND CENTER ON GROUND LEVEL.



30 N. Wolf Rd., Second Floor  
Hillside, IL 60162  
(708) 236-0300  
(708) 236-0330 FAX



KEY PLAN



ISSUE/REVISION:

REV.	DATE	DESCRIPTION
-	11/05/21	ISSUED FOR BID
A	11/15/21	ISSUED FOR BID ADDENDUM

PROJECT:  
GUARANTEED RATE FIELD -  
HVAC REPLACEMENT PHASE XI

333 W 35TH STREET,  
CHICAGO, ILLINOIS 60616

DRAWING TITLE:  
ELECTRICAL NEW WORK  
PLANS - 500 LEVEL ENLARGED  
PLANS

DESIGNED BY:	TG
CHECKED BY:	BT
PROJECT NO:	21276
SCALE:	1/8" = 1'-0"
SHEET NO.	

11/15/2021 ISSUED FOR BID ADDENDUM  
PRELIMINARY - NOT FOR CONSTRUCTION

E1.10



HVAC EQUIPMENT WIRING SCHEDULE

TAG	DESCRIPTION	LOCATION	VOLT	PHASE	LOAD				OCPD		FEED FROM		FEEDER/BRANCH WIRING				EQUIPMENT CONTROLLER										LOCAL DISCONNECT SWITCH						EQUIPMENT CONNECTION										
					HP	KW	FLA	MCA	SIZE	POLE	PANEL	CKT.	SETS	NO.	SIZE	GND.	CONDUIT	P.B	F.B	I.B	SIZE	TYPE	DISC.	SW	OCPD	POLE	ENCL.	SEE NOTE	P.B	F.B	I.B	SIZE	TYPE	POLE	ENCL.	SEE NOTE	P.B	F.B	I.B	RECP.	CPC	HWC	FWC
AC-1	AIR CONDITIONING UNIT	GROUND LEVEL - IT ROOM	208	1	-	-	1	-	15	2	FROM CU-1	-	1	2	12	12	3/4"	-	-	-	-	-	-	-	-	-	-	E.C	-	-	20	TS	2	NEMA 1	3	E.C	-	-	-	-	YES	-	-
AC-2	AIR CONDITIONING UNIT	GROUND LEVEL - HYDROTHERAPY ROOM	208	1	-	-	0.6	-	15	2	EXISTING PANEL	-	1	2	12	12	3/4"	-	-	-	-	-	-	-	-	-	-	E.C	-	-	20	TS	2	NEMA 1	3	E.C	-	-	-	-	YES	-	-
AC-3	AIR CONDITIONING UNIT	GROUND LEVEL - HYDROTHERAPY ROOM	208	1	-	-	1.4	-	15	2	EXISTING PANEL	-	1	2	12	12	3/4"	-	-	-	-	-	-	-	-	-	-	E.C	-	-	20	TS	2	NEMA 1	3	E.C	-	-	-	-	YES	-	-
CU-1	CONDENSING UNIT	GROUND LEVEL - SERVICE TUNNEL	208	1	-	-	28	-	35	2	RP1-4AC	13,15	1	2	8	10	3/4"	-	-	-	-	-	-	-	-	-	-	E.C	-	-	20	NON-FUSE	2	NEMA 3R	3	E.C	-	-	-	-	YES	-	-
FCU-1	FAN COIL UNIT	GROUND LEVEL - COMMAND CENTER	120	1	1	-	10.7	-	20	1	RP-1-3C	37	1	2	12	12	3/4"	-	-	-	-	-	-	-	-	-	-	E.C	-	-	20	TS	1	NEMA 1	3	E.C	-	-	-	-	YES	-	-
RF-1B-1	RETURN FAN	GROUND LEVEL - FOOD STORAGE	480	3	1	1/2	-	-	15	3	EXISTING PANEL	-	1	3	12	12	3/4"	-	-	-	-	-	-	-	-	-	-	E.C	-	-	20	TS	3	NEMA 1	3	E.C	-	-	-	-	YES	-	4
EF-2-44-1	EXHAUST FAN	100 LEVEL - CONCESSIONS STAND	120	1	3/4	-	13.8	-	20	1	CP-2-6B-2	23	1	2	12	12	3/4"	-	-	-	-	-	-	-	-	-	-	E.C	-	-	20	TS	1	NEMA 1	3	E.C	-	-	-	-	YES	-	-
RTU-1	ROOFTOP UNIT	100 LEVEL - SCOUTS LOUNGE ROOM	480	3	-	-	138.6	-	150	3	EXISTING PANEL	-	1	3	10	6	1.1/2"	M.C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	E.C	-	-	-	-	YES	-	4	
AC-4	AIR CONDITIONING UNIT	100 LEVEL - ICE CREAM STAND	208	1	-	-	0.85	-	15	2	RP-2-7B	40,42	1	2	12	12	3/4"	-	-	-	-	-	-	-	-	-	-	E.C	-	-	20	TS	2	NEMA 1	3	E.C	-	-	-	-	YES	-	-
AC-5	AIR CONDITIONING UNIT	100 LEVEL - ICE CREAM STAND	208	1	-	-	0.85	-	15	2	RP-2-7B	40,42	1	2	12	12	3/4"	-	-	-	-	-	-	-	-	-	-	E.C	-	-	20	TS	2	NEMA 1	3	E.C	-	-	-	-	YES	-	-
AC-6	AIR CONDITIONING UNIT	100 LEVEL - ICE CREAM STAND	208	1	-	-	0.85	-	15	2	RP-2-7B	40,42	1	2	12	12	3/4"	-	-	-	-	-	-	-	-	-	-	E.C	-	-	20	TS	2	NEMA 1	3	E.C	-	-	-	-	YES	-	4
CU-2	CONDENSING UNIT	200 LEVEL - ICE CREAM STAND ROOF	480	3	-	-	22	-	30	3	HP-2-7C	38,40,42	1	3	10	10	3/4"	-	-	-	-	-	-	-	-	-	-	E.C	-	-	30	NON-FUSE	3	NEMA 3R	3	E.C	-	-	-	-	YES	-	4
EF-104	EXHAUST FAN	200 LEVEL - ICE CREAM STAND ROOF	120	1	1/30	-	0.5	-	15	1	RP-2-7B	36	1	2	12	12	3/4"	-	-	-	-	-	-	-	-	-	-	E.C	-	-	20	TS	1	NEMA 3R	3	E.C	-	-	-	-	YES	-	-
AHU-3A1	AIR HANDLING UNIT MOTOR	200 LEVEL - STADIUM CLUB	480	3	20	-	27	-	35	3	EXISTING PANEL	-	1	3	8	10	3/4"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	YES	-	4		
AHU-3A1	ELECTRIC HEATING COIL	200 LEVEL - STADIUM CLUB	480	3	-	210	253	-	350	3	SWBD-1-3B	-	1	3	500	3	2.1/2"	-	-	-	-	-	-	-	-	-	-	E.C	-	-	400	NON-FUSE	3	NEMA 1	3	E.C	-	-	-	-	YES	-	-
AHU-3A2	AIR HANDLING UNIT MOTOR	200 LEVEL - TRASH CHUTE ROOM	480	3	20	-	27	-	35	3	EXISTING PANEL	-	1	3	8	10	3/4"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	YES	-	4		
AHU-3A2	ELECTRIC HEATING COIL	200 LEVEL - TRASH CHUTE ROOM	480	3	-	200	241	-	350	3	SWBD-1-3B	-	1	3	500	3	2.1/2"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	YES	-	-		
KEF-1	KITCHEN EXHAUST FAN	200 LEVEL - KITCHEN	480	3	3	-	4.6	-	15	3	HP-3-4B	37,39,41	1	3	12	12	3/4"	E.C	-	-	#1	FVNR	30	10	3	NEMA 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	YES	-	4
CU-3	CONDENSING UNIT	200 LEVEL - ROOF OF PANTRY 4.20.1	480	3	-	-	14.9	-	25	3	EXISTING PANEL	-	1	3	10	10	3/4"	-	-	-	-	-	-	-	-	-	-	E.C	-	-	30	TS	3	NEMA 3R	3	E.C	-	-	-	-	YES	-	4
CU-4	CONDENSING UNIT	200 LEVE - ROOF OF STORAGE ROOM	208	1	-	-	36	-	50	2	RP-3-2C	-	1	2	8	10	3/4"	-	-	-	-	-	-	-	-	-	-	E.C	-	-	60	NON-FUSE	2	NEMA 3R	3	E.C	-	-	-	-	YES	-	-
FCU-2	FAN COIL UNIT	300 LEVEL - ELEVATOR LOBBY	277	1	-	-	-	-	20	1	EXISTING PANEL	-	1	2	12	12	3/4"	-	-	-	-	-	-	-	-	-	-	E.C	-	-	20	TS	1	NEMA 1	3	E.C	-	-	-	-	YES	-	-
EF-4C-01	EXHAUST FAN	300 LEVEL - STORAGE ROOM	120	1	-	-	-	-	20	1	EXISTING PANEL	-	1	2	12	12	3/4"	-	-	-	-	-	-	-	-	-	-	E.C	-	-	20	TS	1	NEMA 1	3	E.C	-	-	-	-	YES	-	-
AC-7	AIR CONDITIONING UNIT	300 LEVEL - FOOD PANTRY	480	3	-	-	7	-	15	3	EXISTING PANEL	-	1	3	12	12	3/4"	-	-	-	-	-	-	-	-	-	-	E.C	-	-	20	TS	3	NEMA 1	3	E.C	-	-	-	-	YES	-	4
AC-8	AIR CONDITIONING UNIT	300 LEVEL - STORAGE ROOM	208	1	-	-	7	-	15	2	RP-3-2C	-	1	2	12	12	3/4"	-	-	-	-	-	-	-	-	-	-	E.C	-	-	20	TS	2	NEMA 1	3	E.C	-	-	-	-	YES	-	-
AHU-6B1	AIR HANDLING UNIT MOTOR	500 LEVEL - MECH ROOM 6.17.6	480	3	20	-	27	-	35	3	EXISTING PANEL	-	1	3	8	10	3/4"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	YES	-	-		
AHU-6B1	ELECTRIC HEATING COIL	500 LEVEL - MECH ROOM 6.17.6	480	3	-	85	102	-	150	3	SWBD-1-3B	-	1	3	10	6	1.1/2"	-	-	-	-	-	-	-	-	-	-	E.C	-	-	200	NON-FUSE	3	NEMA 1	3	E.C	-	-	-	-	YES	-	-
EF-TRA1	EXHAUST FAN	500 LEVEL - TRASH CHUTE EXHAUST	480	3	1	-	2.1	-	15	3	EXISTING PANEL	-	1	3	12	12	3/4"	-	-	-	-	-	-	-	-	-	-	E.C	-	-	20	TS	3	NEMA 3R	3	E.C	-	-	-	-	YES	-	4
KEF-2	KITCHEN EXHAUST FAN	500 LEVEL - KITCHEN EXHAUST ROOF	480	3	5	-	7.6	-	15	3	EXISTING PANEL	-	1	3	12	12	3/4"	-	-	-	-	-	-	-	-	-	-	E.C	-	-	-	-	-	-	6	E.C	-	-	-	-	YES	-	4

GENERAL NOTES:

- 1
- E.C. SHALL REVIEW THE ARCHITECTURAL, MECHANICAL, PLUMBING, AND FIRE PROTECTION CONTRACT DOCUMENTS, AND SHOP DRAWINGS FOR FINAL EQUIPMENT LOCATION, ELEVATION, AND POWER REQUIREMENTS PRIOR TO INSTALLING CONDUITS.
- 2
- E.C. SHALL REVIEW THE LOAD REQUIREMENTS WITH THE OEM PRIOR TO INSTALLING CONDUIT.
- 3
- E.C. SHALL VEFIRY IN THE FIELD THE OCPD REQUIREMENTS WITH THE OEM PRIOR TO INSTALLING CONDUIT. OCPD RATINGS ARE DERIVED FROM THE OEM'S SPECIFICATIONS.
- 4
- E.C. SHALL VERIFY IN THE FIELD THE CONTACTOR/STARTER/VFD/PRMS/OEM CONTROLLER/DISCONNECT RATINGS WITH THE OEM PRIOR TO INSTALLING CONDUIT.
- 5
- E.C. SHALL VERIFY IN THE FIELD THE THERMAL OVERLOAD RATINGS WITH THE OEM. PROVIDE OVERLOADS PER OEM RECOMMENDATIONS.
- 6
- E.C. SHALL VERIFY IN THE FIELD WITH THE OEM PRIOR TO INSTALLING CONDUIT.
- 7
- E.C. SHALL LOCATE THE DISCONNECT SWITCH WITHIN 5FT AND WITHIN SIGHT OF THE EQUIPMENT.
- E.C. SHALL PROVIDE CONNECTIONS TO MOTOR/LISTED EQUIPMENT. PROVIDE A Cu EQUIPMENT GROUND(EGC) FROM THE DISCONNECT SWITCH TO THE MOTOR/LISTED EQUIPMENT CONNECTION POINT/JUNCTION BOX.

- PB: PROVIDED BY (FURNISH AND INSTALL)
- FB: FURNISHED BY
- IB: INSTALLED BY
- ENCL.: NEMA ENCLOSURE
- HWC: HARD WIRE CONNECTION
- FWC: FLEXIABLE WHIP CONDUIT
- OPC: CORD AND PLUG CONNECTION
- FVNR: FULL VOLTAGE NON-REVERSING MAGNETIC STARTER
- VFD: VARIABLE FREQUENCY CONTROLLER
- TS: TOGGLE SWITCH
- FUSE: FUSE DISCONNECT SWITCH
- NON-FUSE: NON-FUSED DISCONNECT SWITCH

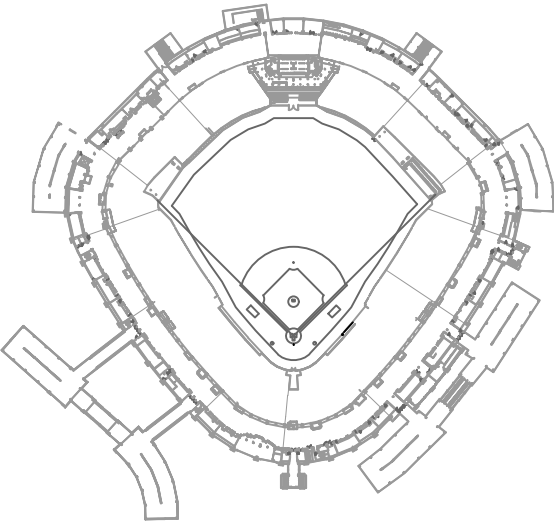
- NOTE #1
- E.C. SHALL PROVIDE MOUNTING/RACKING FOR STARTER TYPES (FVNR, FVR, PRMS, 2SP1W, & 2SP2W)
- E.C. SHALL PROVIDE THERMAL OVERLOADS FOR STARTERS PER OEM/FIELD VERIFICATION
- E.C. SHALL PROVIDE TWO SETS OF FORM "C" AUX CONTACTS FOR ALL STARTER TYPES
- E.C. SHALL PROVIDE 120Vac CONTROL COIL FOR STARTERS TYPES (FVNR, FVR, 2SP1W, & 2SP2W)
- E.C. SHALL PROVIDE 24Vac CONTROL COIL FOR POWER RELAYS/MANUAL STARTER "PRMS"
- NOTE #2
- E.C. SHALL PROVIDE MOUNTING/RACKING FOR VARIABLE FEQUENCY CONTROLLER "VFD"
- E.C. SHALL CALIBRATE SOLID STATE OVERLOADS PER OEM/FIELD VERIFICATION RESULTS
- E.C. SHALL PROVIDE FOUR SETS OF FORM "C" AUX CONTACTS WITHIN THE VFD ENCLOSURE
- E.C. SHALL PROVIDE OEM START-UP AND COMMISSIONING OF VFD PRIOR TO FINAL PUNCHLIST
- E.C. SHALL PROVIDE MOUNTING/RACKING FOR DISCONNECT SWITCHES
- NOTE #3
- ALL DISCONNECT SWITCHES SHALL BE WITHIN SIGHT OF THE MOTOR/EQUIPMENT
- AND SHALL NOT EXCEED A MAXIMUM DISTANCE OF 5 FEET FROM THE MOTOR/EQUIPMENT
- MAXIMUM HEIGHT AFF OF DISCONNECT SWITCH HANDLE SHALL NOT EXCEED 6'-3"
- NOTE #4
- E.C. SHALL VERIFY MOTOR ROTATION AND OPERATION WITH THE OEM REPRESENTATIVE PRIOR TO ENERGIZING MOTOR(S)/EQUIPMENT
- E.C. SHALL PROVIDE GROUNDING AND BONDING PER THE OEM SPECIFICATIONS



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PROJECT:  
GUARANTEED RATE FIELD -  
HVAC REPLACEMENT PHASE XI

333 W 35TH STREET,  
CHICAGO, ILLINOIS 60616

DRAWING TITLE:  
ELECTRICAL SCHEDULES

DESIGNED BY: TG  
CHECKED BY: BT  
PROJECT NO: 21276  
SCALE: NO SCALE  
SHEET NO.

11/15/2021 ISSUED FOR BID ADDENDUM  
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E2.01



