

333 W 35TH STREET
CHICAGO, ILLINOIS 60616

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

CITY OF CHICAGO NOTES	
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF CHICAGO BUILDING CODE REQUIREMENTS.	5. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM ANY EXHAUST LOUVERS, PLUMBING VENTS OR ANY OTHER POSSIBLE CONTAMINANTS AND SHALL BE A MINIMUM OF 10'-0" ABOVE GRADE.
2. ALL EQUIPMENT FURNISHED AND INSTALLED SHALL BE IN FULL COMPLIANCE WITH THE CURRENT STANDARDS SET BY THE CITY OF CHICAGO DEPARTMENT OF INSPECTIONAL SERVICES.	6. IF FLEXIBLE DUCTS ARE USED, DO NOT EXCEED 5'-0" IN LENGTH AND ALL FLEXIBLE DUCTWORK TO BE CITY OF CHICAGO APPROVED.
3. ALL NEW DRAINAGE INSTALLED SHALL BE OF GALVANIZED METAL. ALL SHEETMETAL INSTALLATION SHALL COMPLY WITH THE LATEST STANDARDS OF MANUFACTURE AND SHIELD.	7. NOISE FROM ALL MECHANICAL EQUIPMENT INSTALLED SHALL NOT EXCEED 55 DB AT THE PROPERTY LINE.
4. ALL NEW EQUIPMENT PROVIDED SHALL BE U.L. LISTED AND SHALL BEAR THE U.L. LABEL.	

SCALE: NO SCALE

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MD.02	MECHANICAL SPECIFICATIONS

1. TRASH CHUTE EXHAUST:
 - 1.1. REPLACE ROOF MOUNTED EXHAUST FAN SERVING RIGHT FIELD TRASH CHUTE EXHAUST.
 - 1.2. BALANCE EXHAUST GRILLES SERVING LOWER LEVELS.
2. COMMAND CENTER COOLING:
 - 2.1. DEMOLISH TWO EXISTING CHILLED WATER FAN COILS. REMOVE UNITS, DIFFUSERS, CHILLED WATER PIPING, AND CONDENSATE DRAIN.
 - 2.2. INSTALL NEW FAN COIL UNIT IN NEW LOCATION ADJACENT TO SPACE SERVED. CONCORD TO EXISTING REMAINING CONDENSATE DRAIN AND INSTALL NEW CHILLED WATER PIPING FROM SERVICE CORRIDOR TO NEW UNIT LOCATION.
3. IT ROOM COOLING:
 - 3.1. DEMOLISH NON-FUNCTIONING WALL MOUNTED CASSETTE COOLING UNIT, ASSOCIATED CONDENSATE PUMP, AND CONDENSATE DRAINING UNIT.
 - 3.2. DEMOLISH ABANDONED IN PLACE CONDENSING UNIT AND ASSOCIATED PIPING.
 - 3.3. INSTALL NEW WALL MOUNTED DX CASSETTE UNIT WITH INTEGRAL CONDENSATE PUMP AND ASSOCIATED CONDENSING UNIT MOUNTED SUSPENDED IN THE SERVICE CORRIDOR.
4. ICE CREAM VENDOR COOLING:
 - 4.1. INSTALL NEW WALL MOUNTED DX CASSETTE UNIT WITH INTEGRAL CONDENSATE PUMP AND ASSOCIATED ROOF MOUNTED CONDENSING UNIT.
5. CONCESSION VENDOR COOLER EXHAUST:
 - 5.1. REPLACE EXISTING EXHAUST FAN IN COOLER ROOM OF CONCESSION VENDOR IN SECTION 154.
6. HYDROTHERAPY PUMP ROOM COOLING:
 - 6.1. STADIUM CLUB AHU REPLACEMENT:
 - 6.1.1. REPLACE THREE (3) AIR HANDLERS SERVING THE STADIUM CLUB AND SUPPORT SPACES.
7. DISHWASHER EXHAUST REPAIR & DRAIN:
 - 7.1. REMOVE SECTION OF DISHWASHER EXHAUST DUCTWORK CORRODED OR WORN DRAIN DAMAGES.
 - 7.2. INSTALL NEW SECTION OF STAINLESS STEEL DUCTWORK AND PROVIDE DRAIN ROUTED TO NEARBY OPEN SITE DRAIN.
8. KITCHEN EXHAUST MODIFICATION:
 - 8.1. BARDS ROOM LOBBY FAN COIL:

PIPING		PUMP	
	NEW PIPING		STEAM TRAP
	EXISTING PIPING TO REMAIN		STRAINER
	EXISTING PIPING TO BE DEMOLISHED		SUCTION DIFFUSER
	ANGLE VALVE		TEST PLUG
	AQUASTAT		THERMOMETER
	BACKFLOW PREVENTER		THERMOSTATIC MIXING VALVE
	BALL VALVE		THREE-WAY, MODULATING AUTOMATIC CONTROL VALVE
	BUTTERFLY VALVE		THREE-WAY, TWO-POSITION AUTOMATIC CONTROL VALVE
	CHECK VALVE		TWO-WAY, TWO-POSITION AUTOMATIC CONTROL VALVE
	CIRCUIT SETTER BALANCING VALVE		TRIPLE DUTY VALVE
	DIRECTION OF FLOW		TWO-WAY, MODULATING AUTOMATIC CONTROL VALVE
	DIRECTION OF PIPE PITCH, DOWN		TWO-WAY, TWO-POSITION AUTOMATIC CONTROL VALVE
	DRAIN VALVE WITH 3/4" THREADED HOSE ADAPTOR		Y-STRAINER CHECK VALVE
	ECCENTRIC PIPE REDUCER	DUCTWORK	
	FLEXIBLE PIPE CONNECTOR (OR CONNECTION)		NEW DUCTWORK
	FLOW SWITCH		EXISTING DUCTWORK TO REMAIN
	GAS COCK		EXISTING DUCTWORK TO BE DEMOLISHED
	GATE VALVE		ACCESS DOOR
	GLOBE VALVE		AUTOMATIC CONTROL (OR MOTOR OPERATED) DAMPER
	MANUAL AIR VENT		DIRECTION OF AIRFLOW
	MANUAL THREE-WAY, TWO-POSITION VALVE		DUCTWORK BREAK LINE (OR CONTINUATION)
	NEEDLE VALVE		FIRE DAMPER
	NEW PIPE CONNECTION		FLEXIBLE DUCTWORK CONNECTION
	ORIFICE PIPE UNION	TYPE _____ NECK SIZE _____	
	PIPE ALIGNMENT GUIDE		GRILL/REGISTER/DIFFUSER TAG
	PIPE ANCHOR		CFM _____ SERVICE _____
	PIPE BREAK		MANUAL VOLUME (OR BALANCING) DAMPER
	PIPE CAP		RECTANGULAR EXHAUST/RETURN DUCTWORK DOWN
	PIPE DROPPRISE		RECTANGULAR EXHAUST/RETURN DUCTWORK UP
	PIPE ELBOW, 45° HORIZONTAL		RECTANGULAR SUPPLY DUCTWORK DOWN
	PIPE ELBOW, 90° HORIZONTAL		RECTANGULAR SUPPLY DUCTWORK UP
	PIPE ELBOW, DOWN AND 90° HORIZONTAL		ROUND DUCTWORK DOWN
	PIPE ELBOW, TURNED DOWN		ROUND DUCTWORK UP
	PIPE ELBOW, TURNED UP	GENERAL	
	PIPE EXPANSION JOINT		DOC OR STANDALONE PROGRAMMABLE THERMOSTAT
	PIPE REDUCER/INCREASER		EQUIPMENT TAG
	PIPE REDUCER/INCREASER TEE		EMERGENCY SHUTOFF
	PIPE SLEEVE		FLOOR DRAIN
	PIPE TEE, BOTTOM CONNECTION, 45° OR 90° ELBOW		POINT OF CONNECTION OF NEW TO EXISTING WORK
	PIPE TEE, DOWN		POINT OF DEMOLITION TO EXISTING WORK
	PIPE TEE, FOUR-WAY, HORIZONTAL		CARBON DIOXIDE DETECTOR/SENSOR
	PIPE TEE, HORIZONTAL		DIFFERENTIAL PRESSURE TRANSDUCER
	PIPE TEE, TOP CONNECTION, 45° OR 90° ELBOW		VARIABLE FREQUENCY DRIVE
	PIPE TEE, UP		
	PIPE UNION		
	PIPE WELL		
	PRESSURE GAUGE		
	PRESSURE REDUCING/REGULATING VALVE		
	PRESSURE/SAFETY RELIEF VALVE		

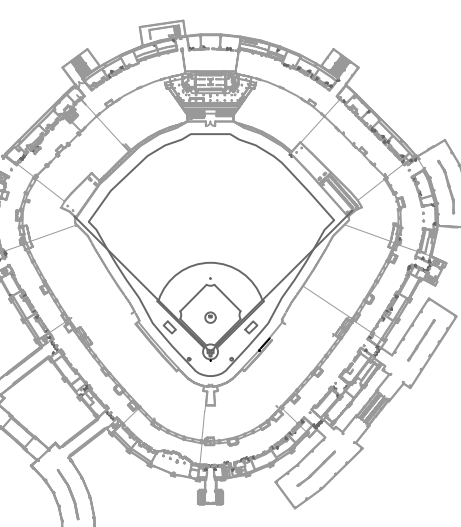
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PLAN



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ECT:

GUARANTEED RATE FIELD -
C REPLACEMENT PHASE XI

735 N. 35TH STREET,
CHICAGO, ILLINOIS 60616

MECHANICAL TITLE SHEET

DESIGNED BY: DA

WORKED BY: MS

ECT NO:	21276
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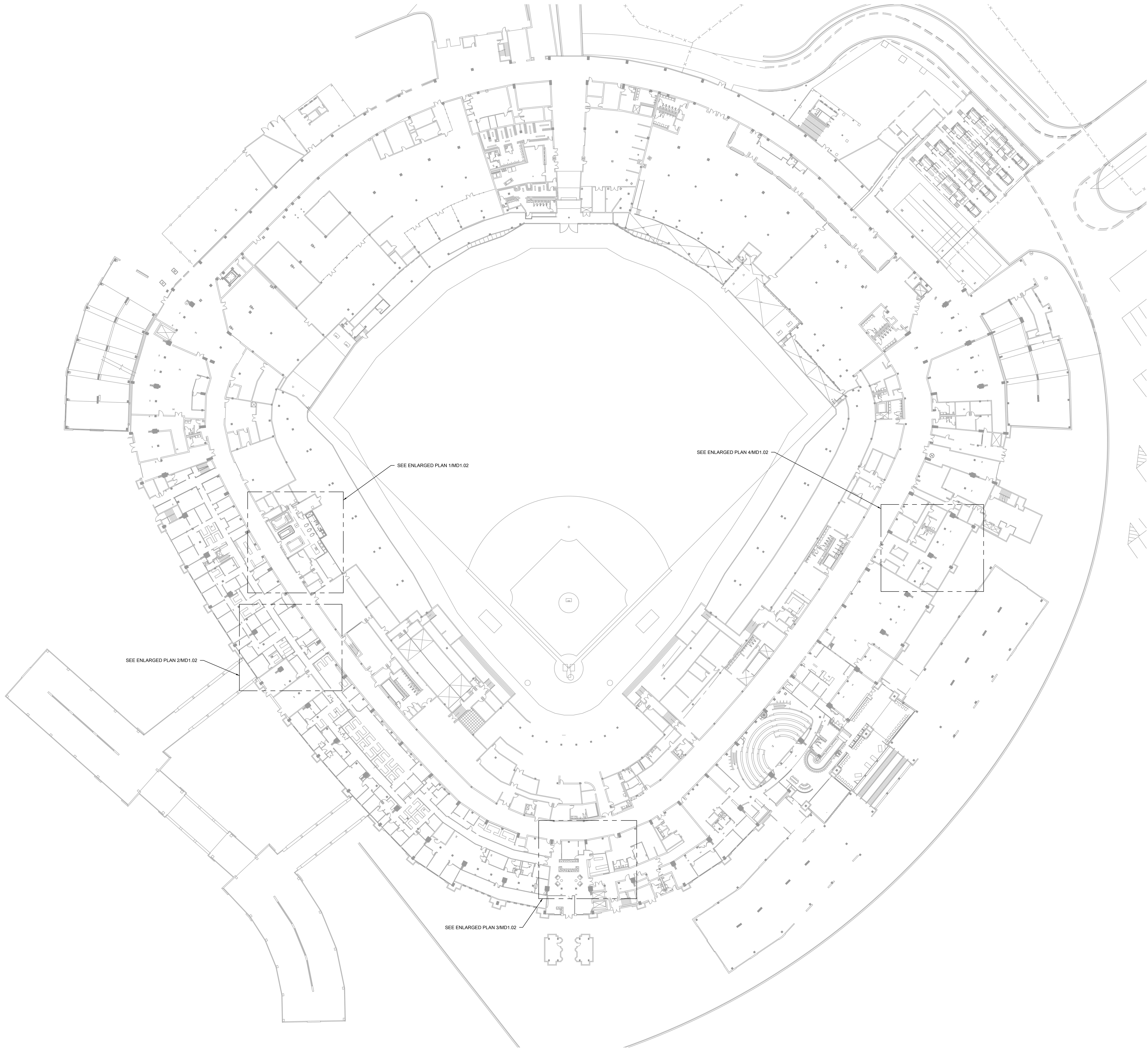
Discussion

11/05/2021

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M0.01



KEYED MECHANICAL DEMOLITION SHEET NOTES	
1.	

1 MECHANICAL DEMOLITION PLAN - CONCOURSE LEVEL OVERALL

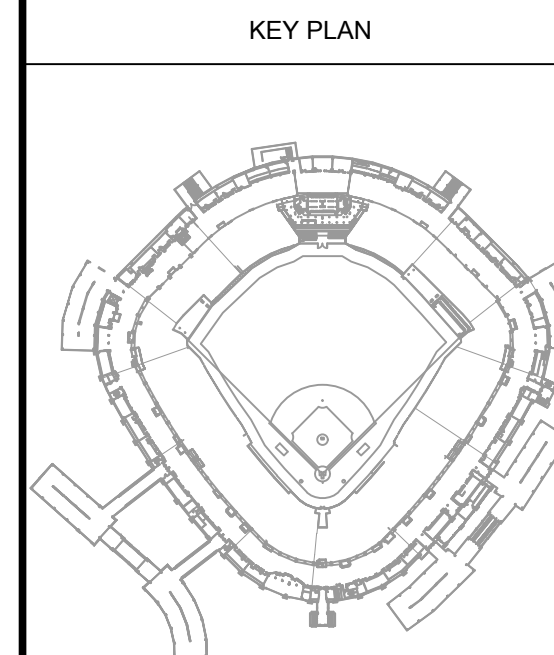
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GUARANTEED RATE FIELD -
HVAC REPLACEMENT PHASE XI

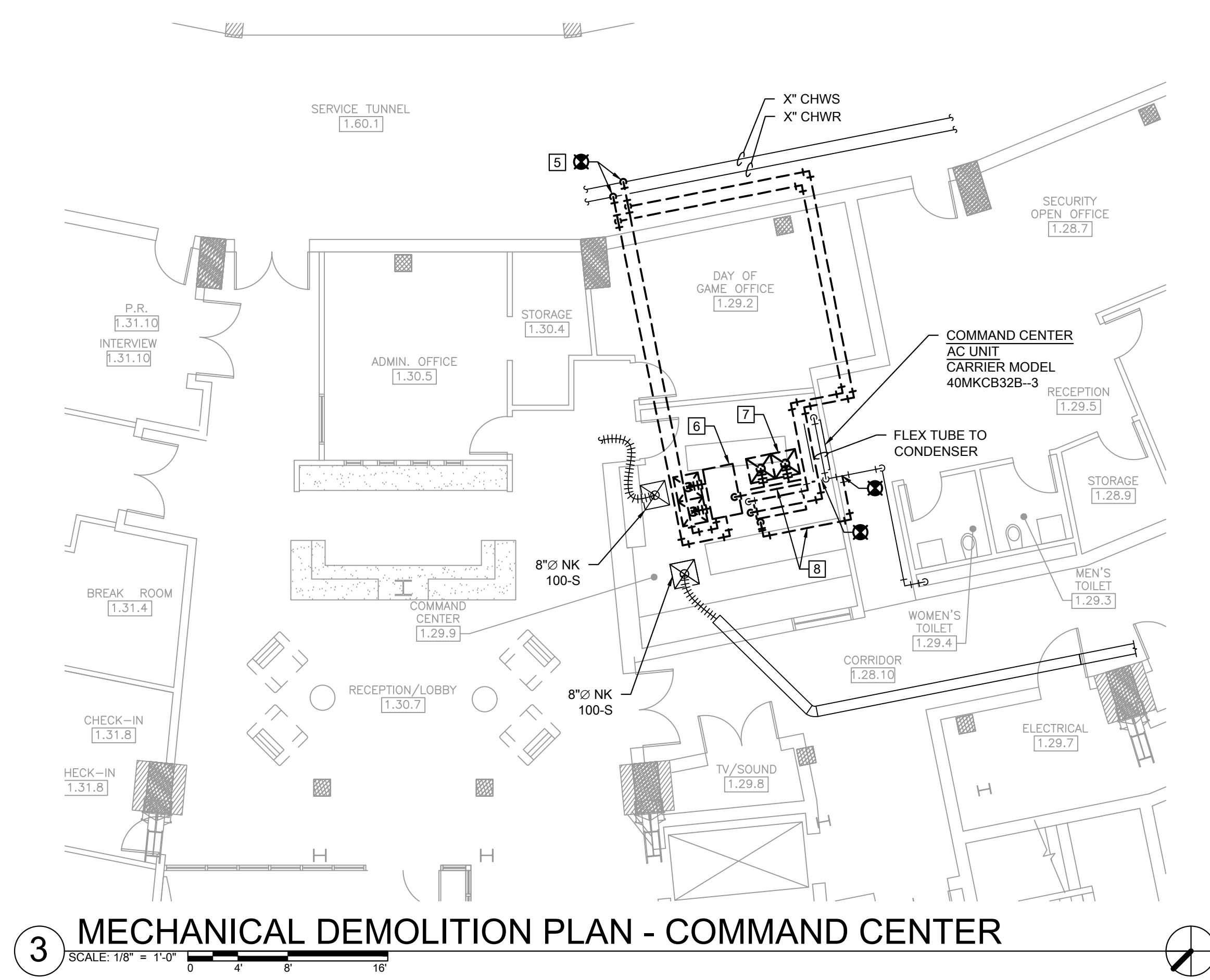
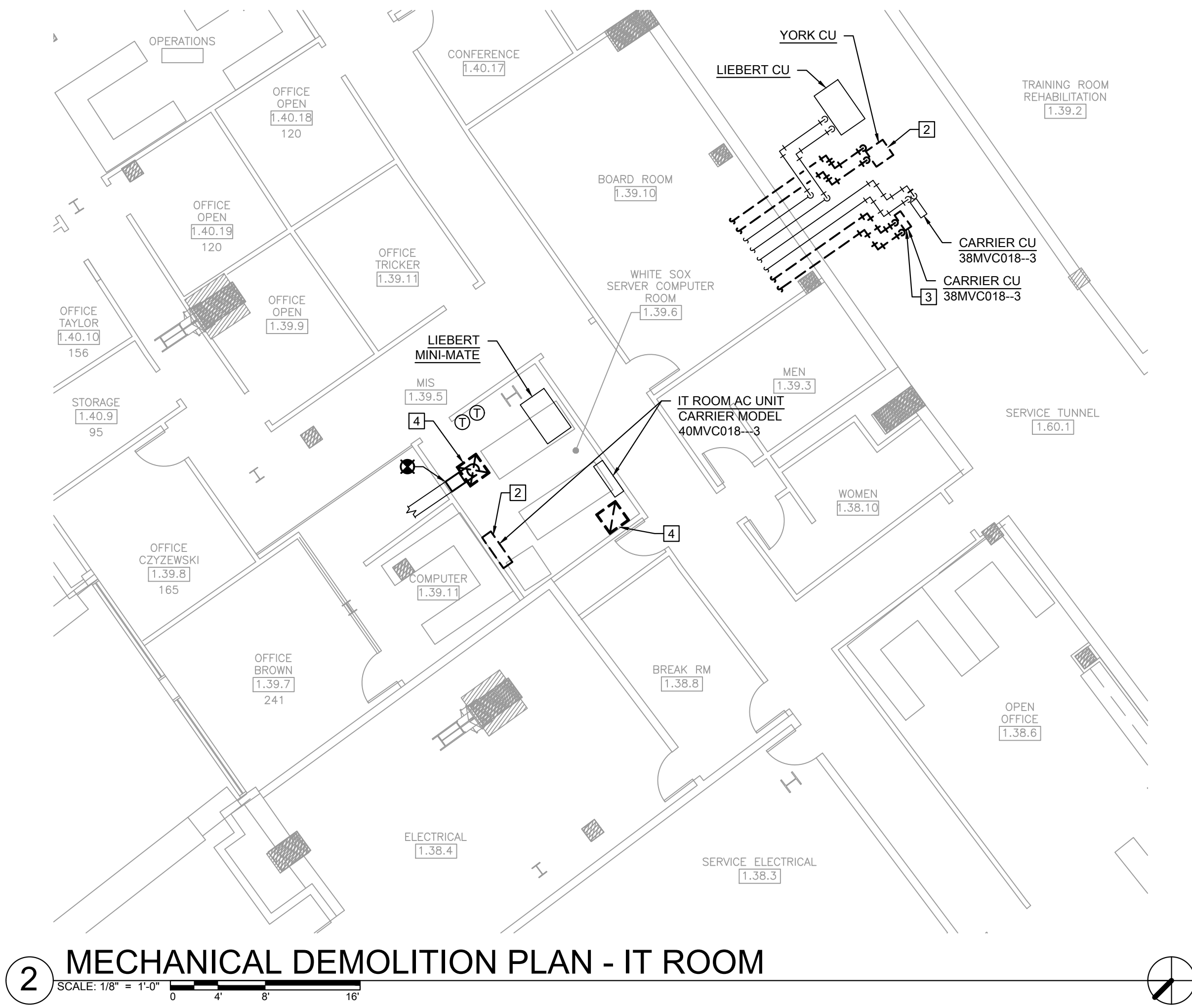
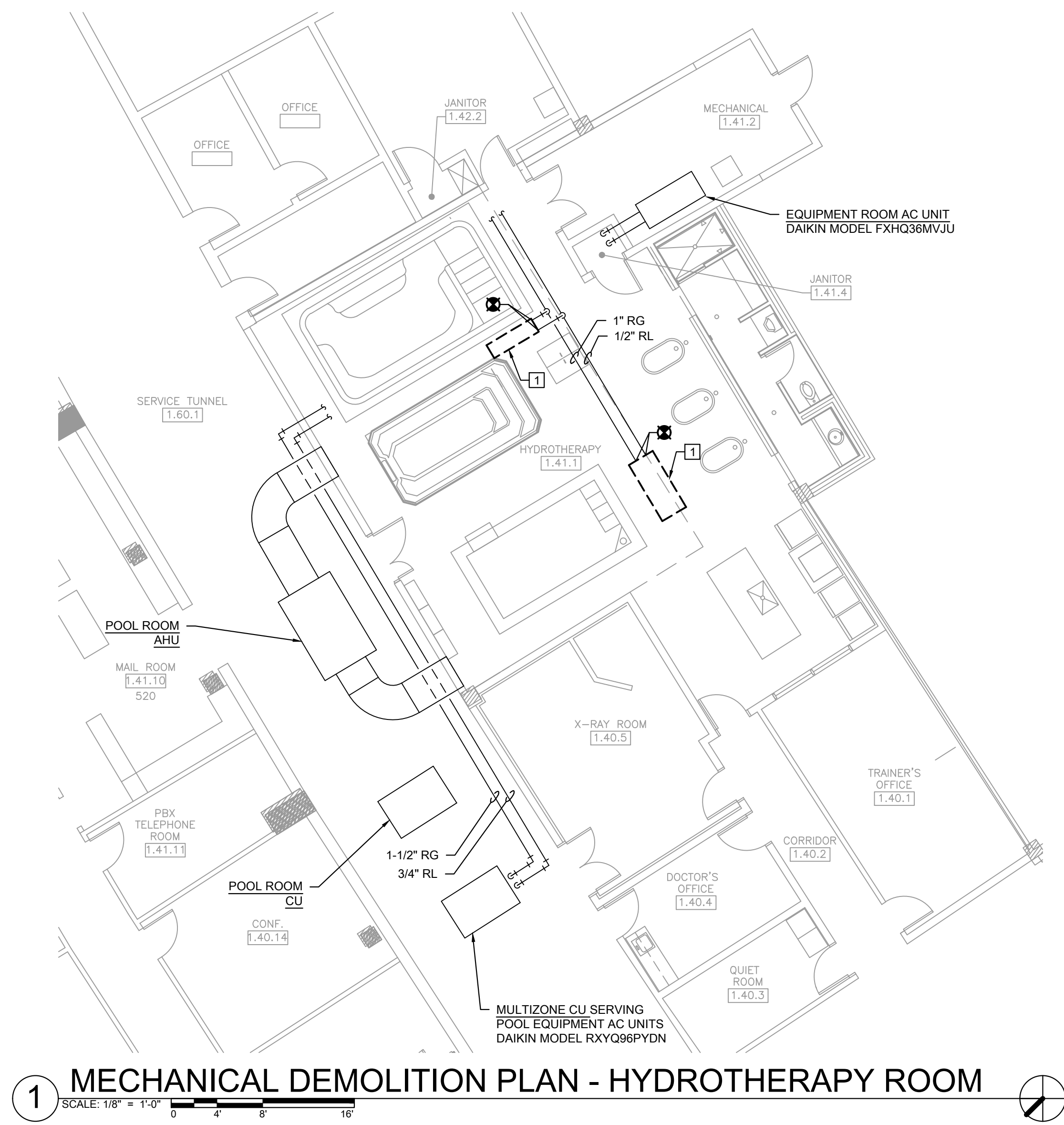
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DRAWING TITLE:
MECHANICAL DEMOLITION
PLAN - CONCOURSE OVERALL

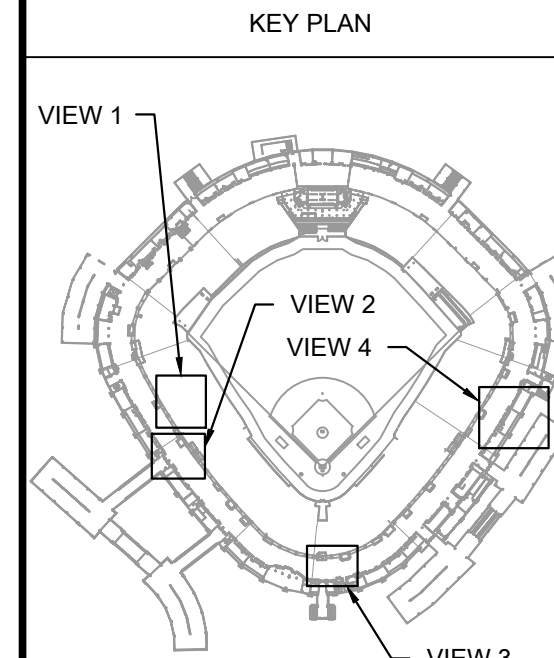
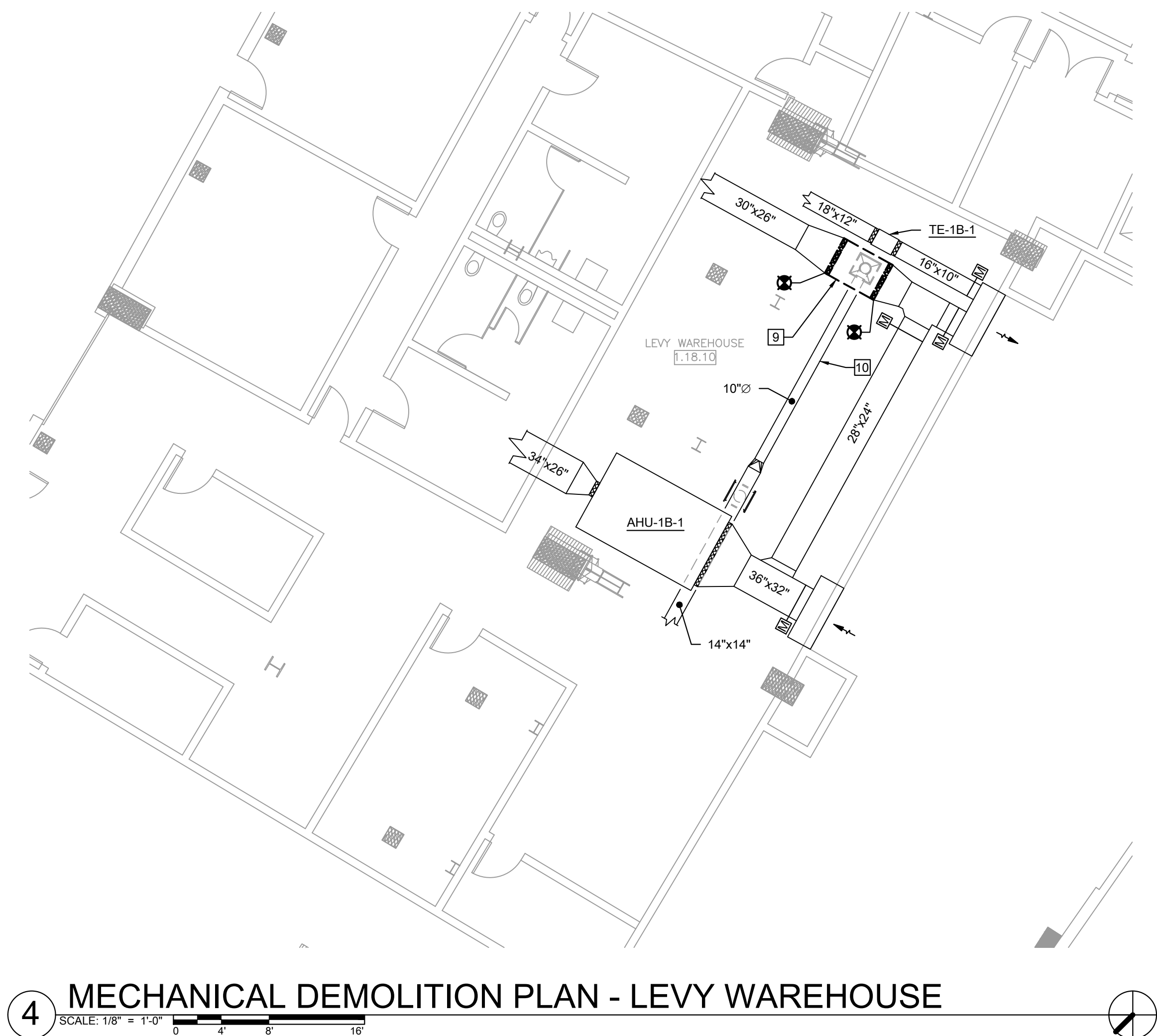
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MD1.01



- 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. CONDENSING UNITS ARE SUSPENDED HIGH ABOVE SERVICE CORRIDOR. REMOVE UNIT AND ALL ASSOCIATED SUPPORTS AND PIPING.
 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.



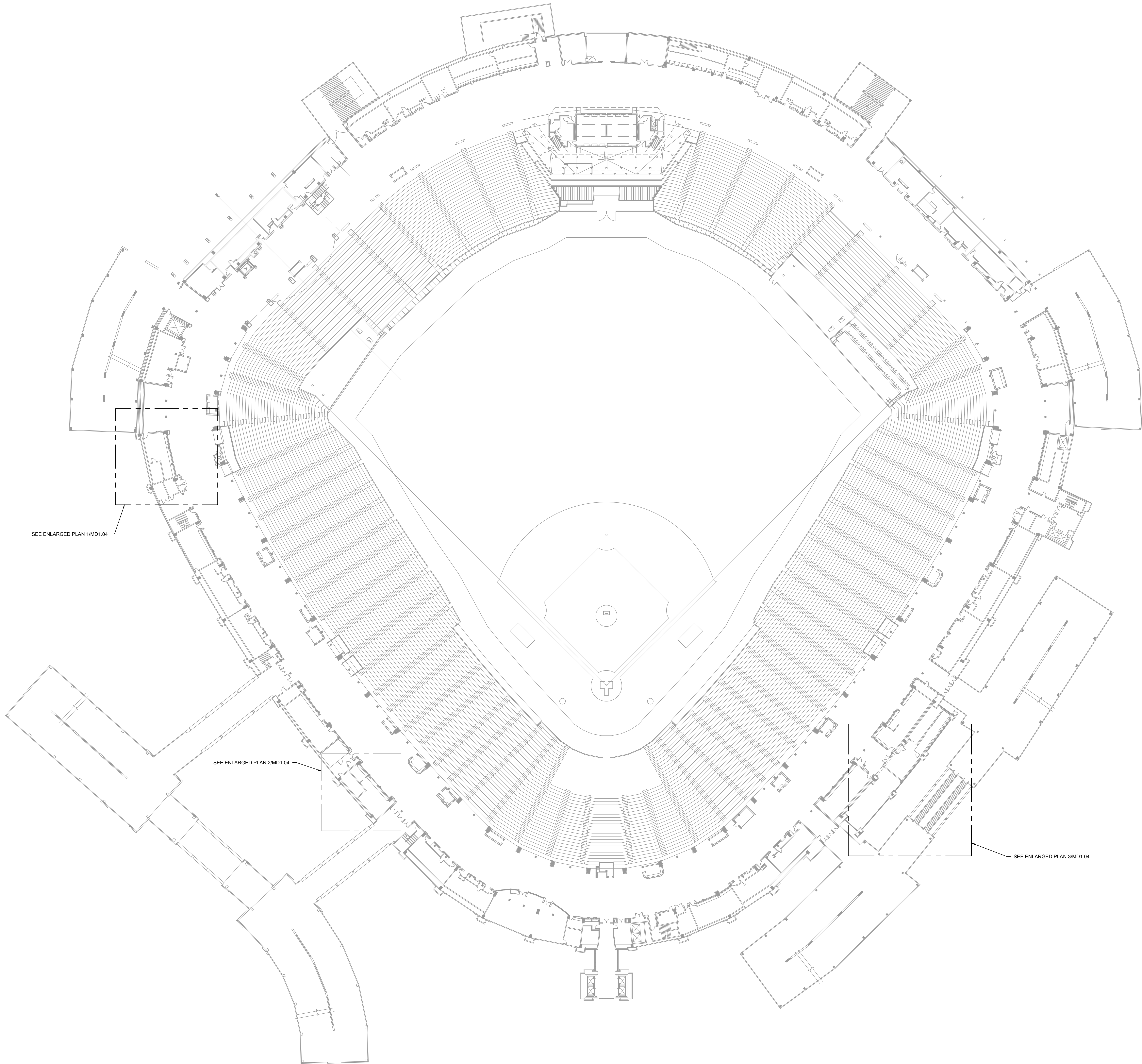
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DRAWING TITLE:
MECHANICAL DEMOLITION
PLAN - CONCOURSE
ENLARGED PLANS

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KEYED MECHANICAL DEMOLITION SHEET NOTES	
1.	

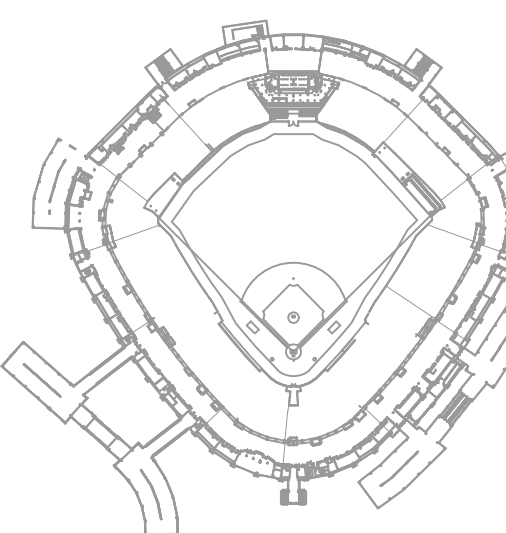
1 MECHANICAL DEMOLITION PLAN - 100 LEVEL OVERALL
SCALE: 1/32" = 1'-0" 0 16 32 64



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DRAWING TITLE:
MECHANICAL DEMOLITION
PLAN - LEVEL 100 OVERALL

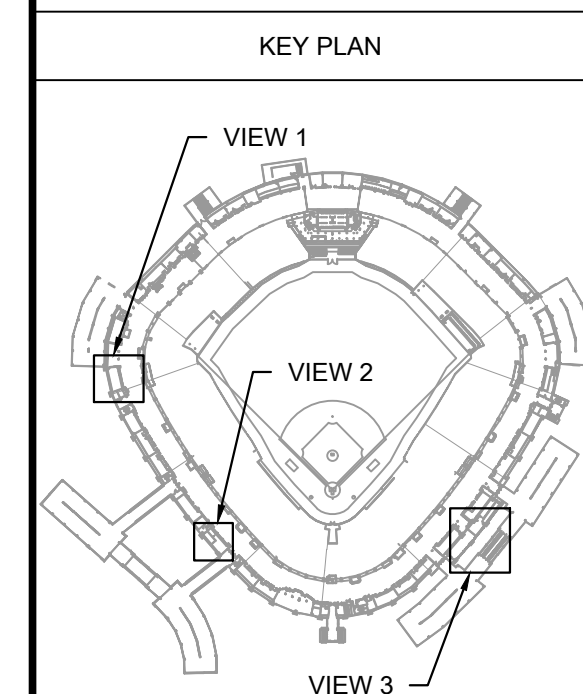
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MD1.03



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GUARANTEED RATE FIELD -
HVAC REPLACEMENT PHASE XI

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DRAWING TITLE:
MECHANICAL DEMOLITION
PLAN - LEVEL 100 ENLARGED
PLANS

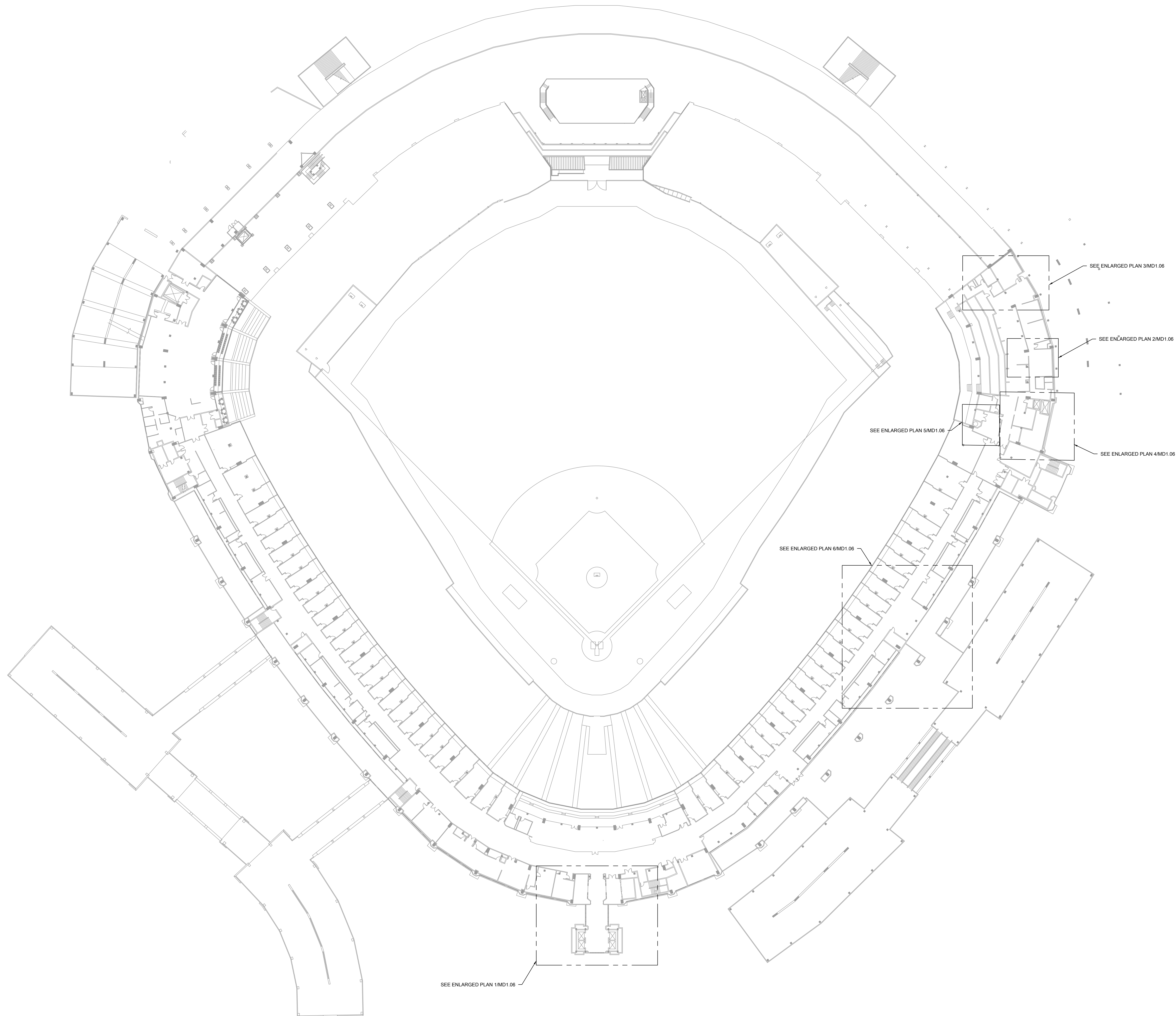
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MD1.04

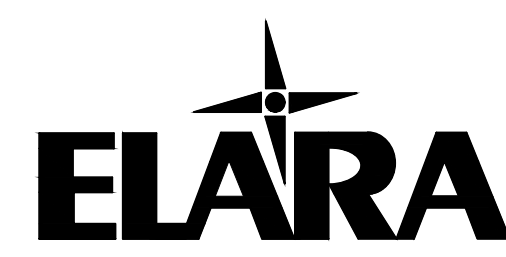
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MD1.04



1 MECHANICAL DEMOLITION PLAN - 200 LEVEL OVERALL

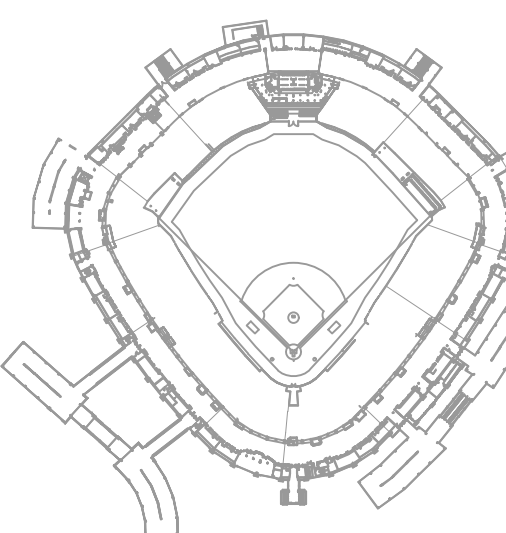
SCALE: 1/32" = 1'-0"
0 10 20 30 40



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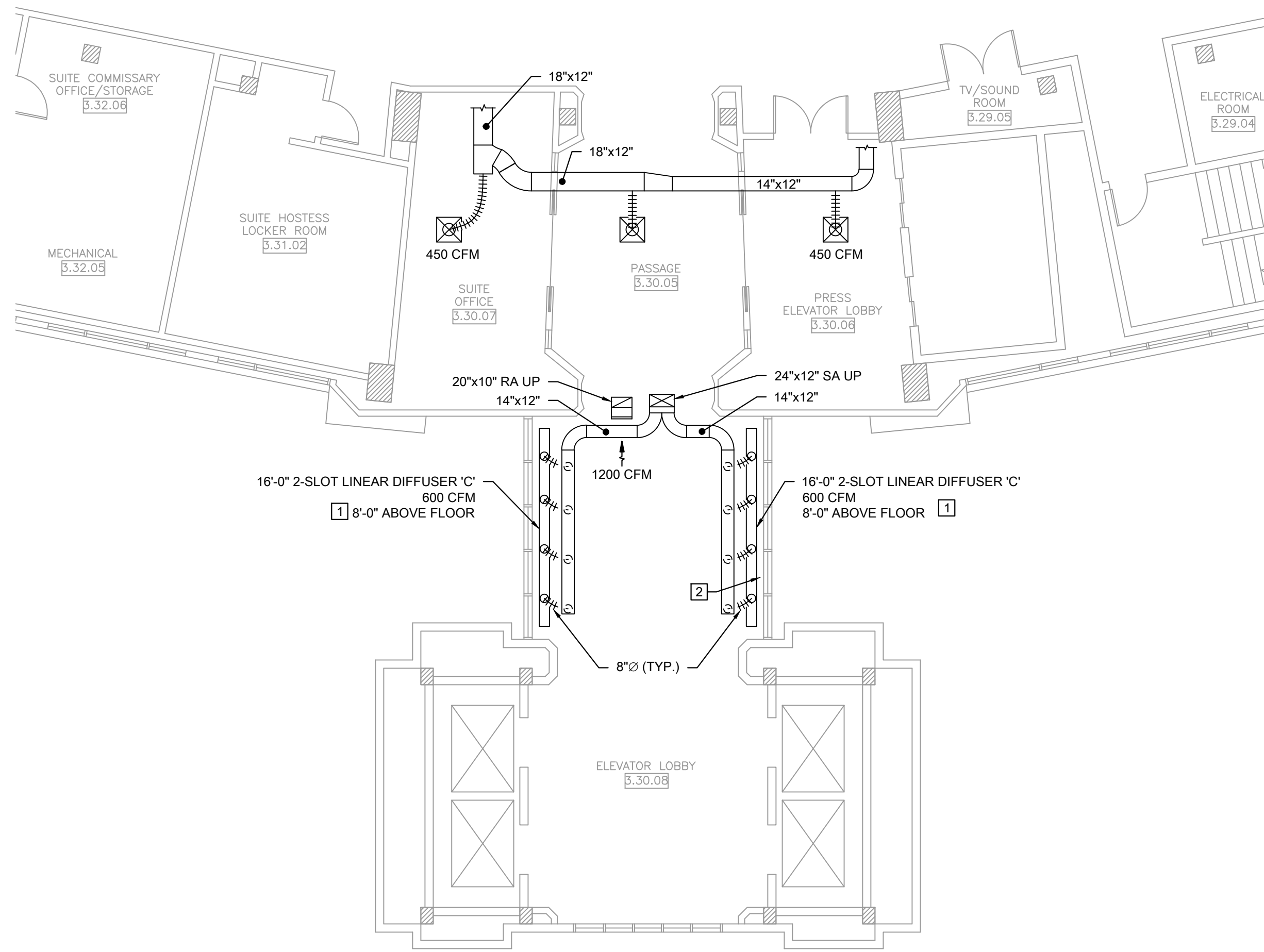
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PLANS - LEVEL 200 OVERALL

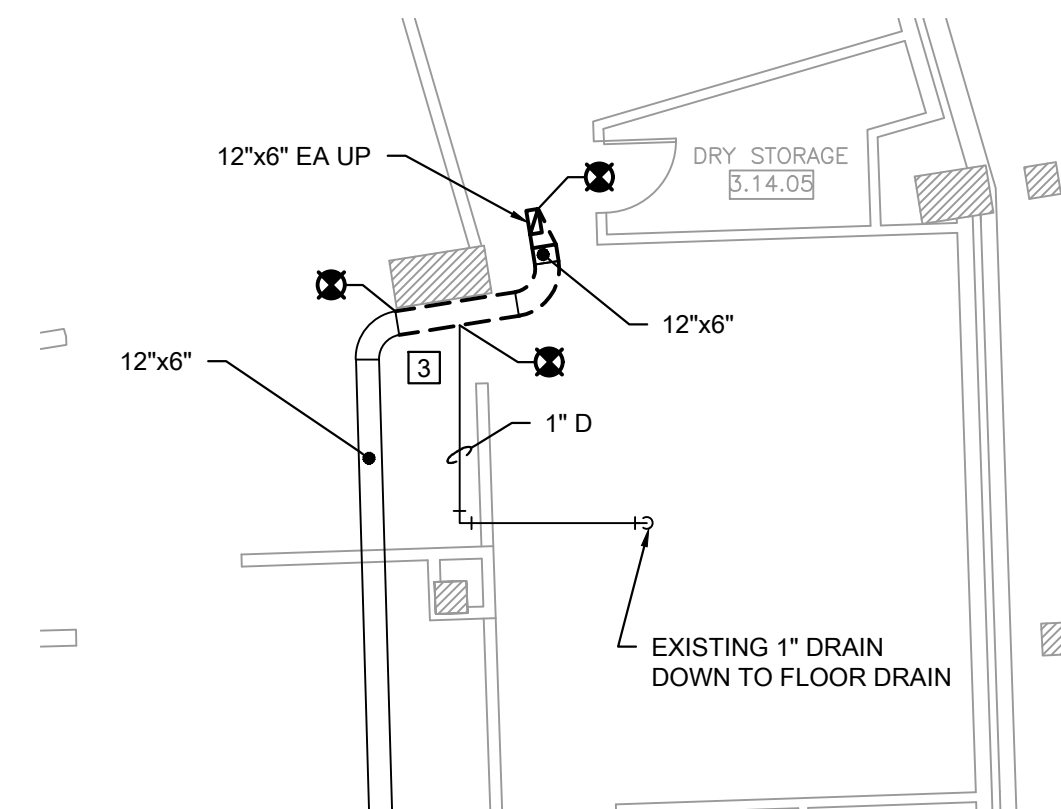
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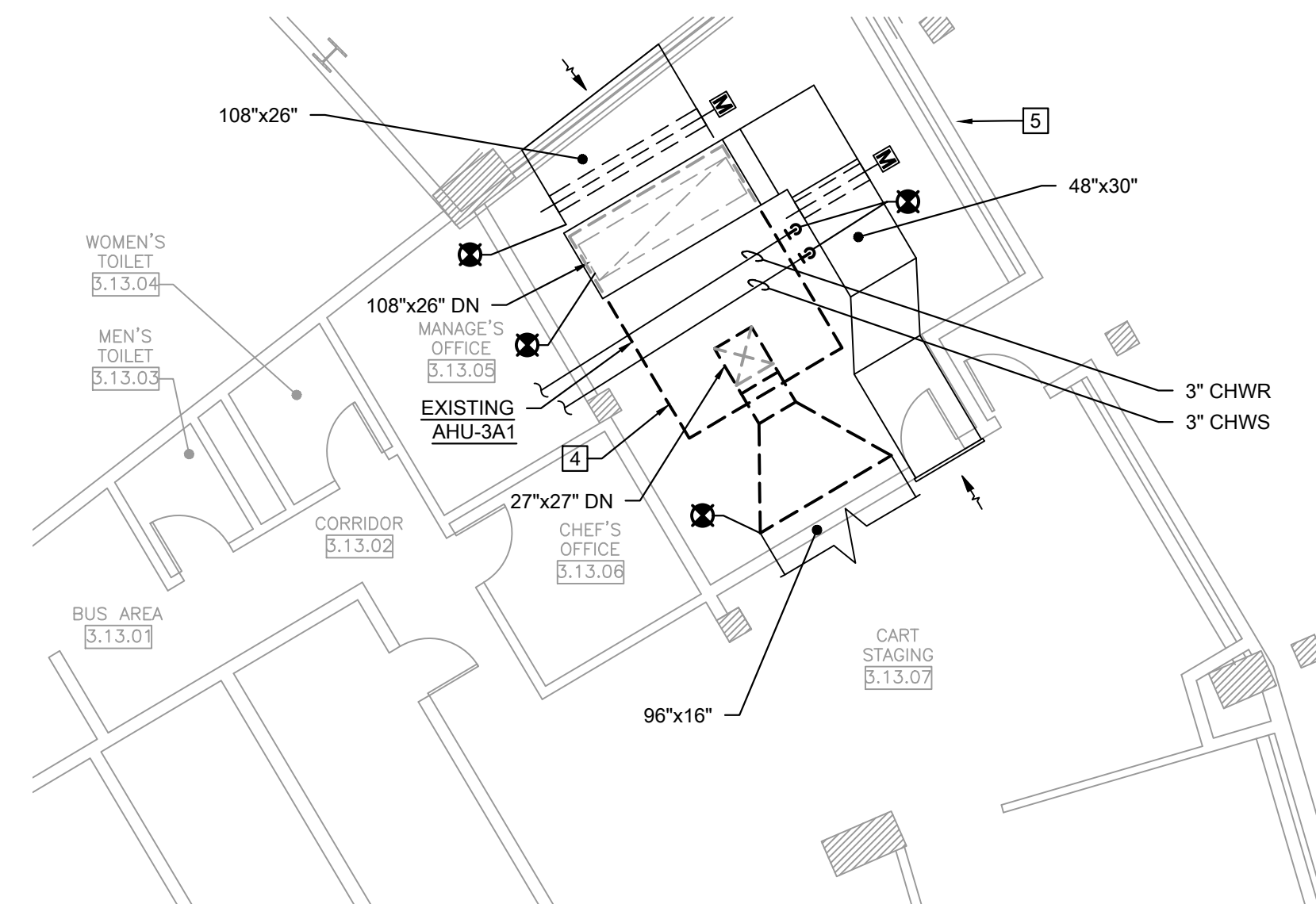
MD1.05



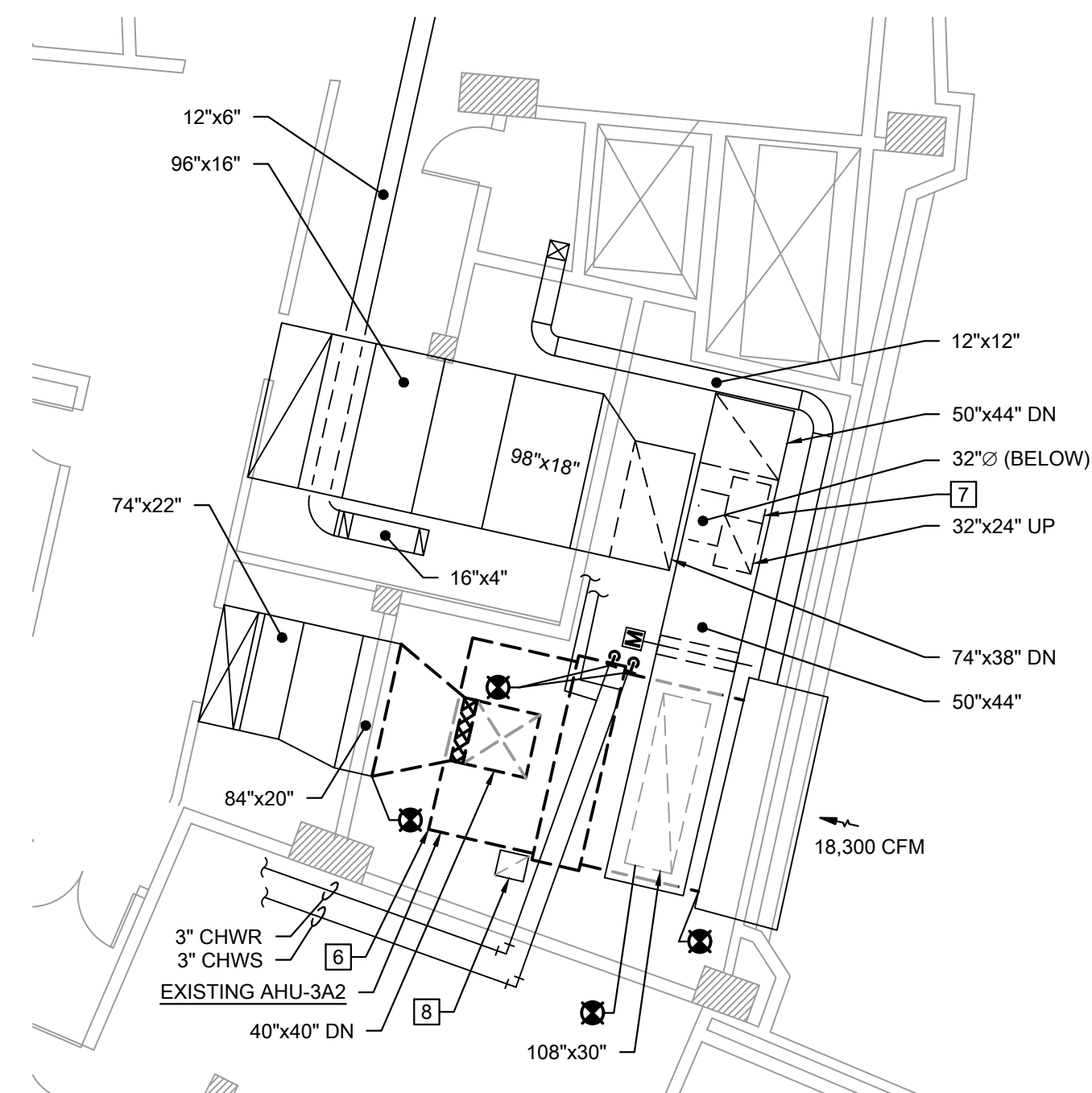
1 MECHANICAL DEMOLITION PLAN - BARD'S ROOM FCU
SCALE: 1/8" = 1'-0"



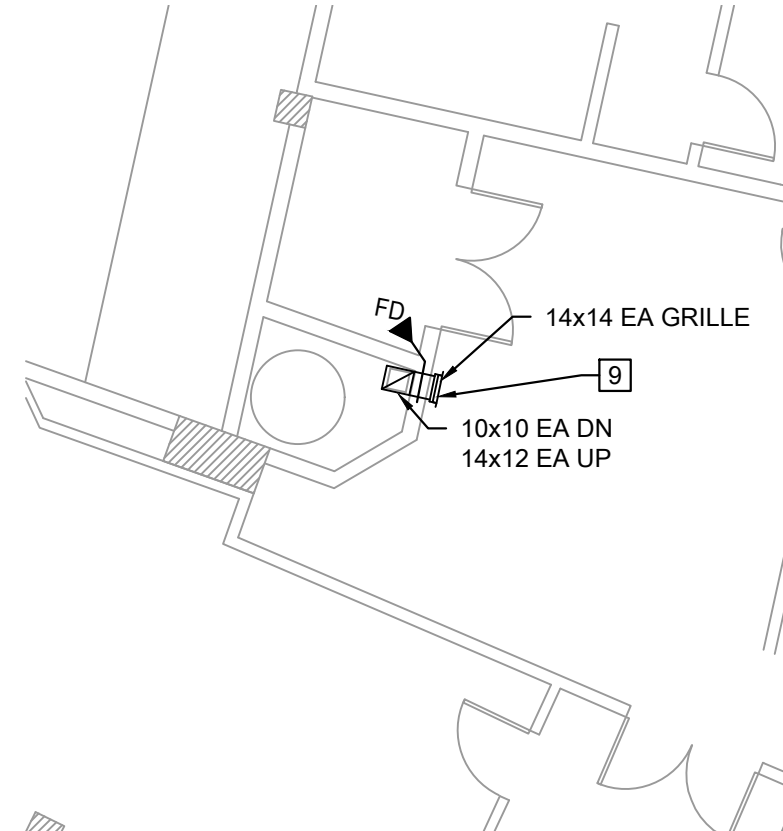
2 MECHANICAL DEMOLITION PLAN - DISHWASHER EXHAUST
SCALE: 1/8" = 1'-0"



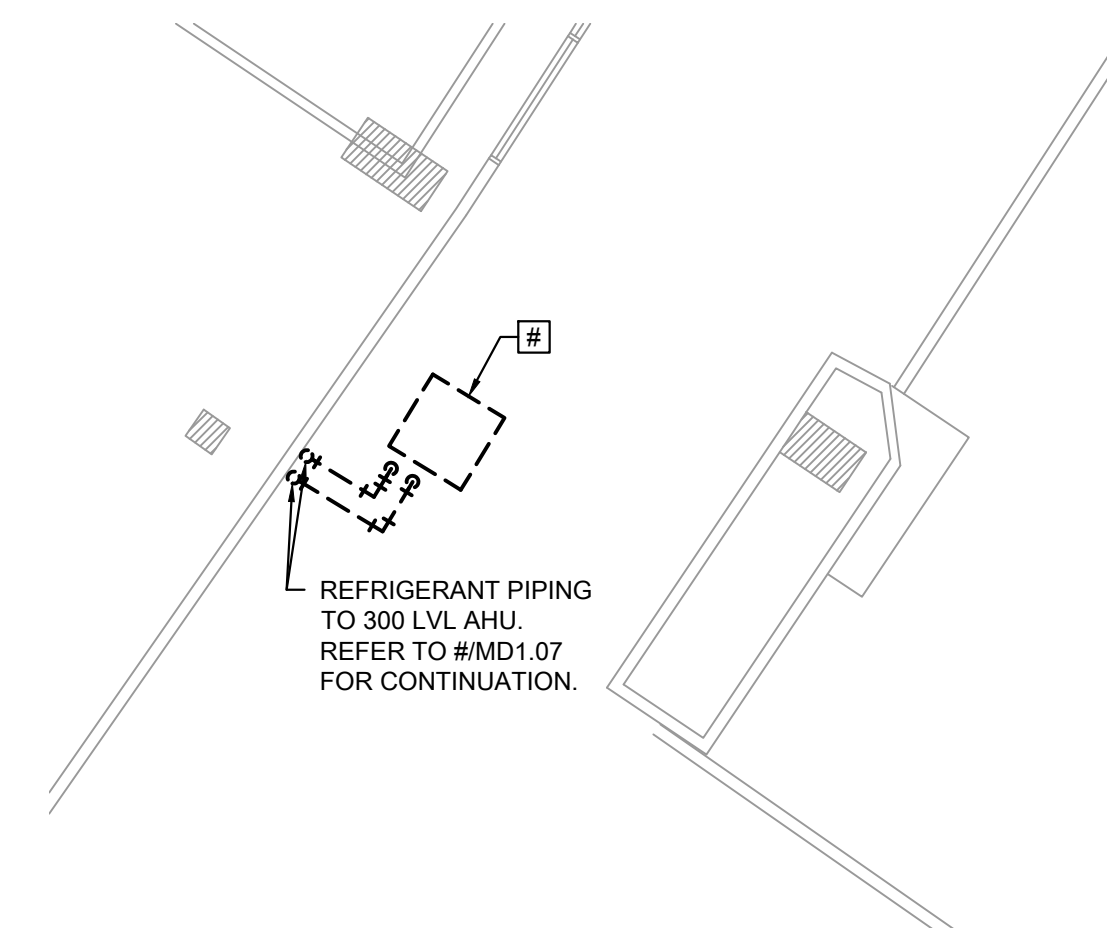
3 MECHANICAL DEMOLITION PLAN - KITCHEN AHU 3A1
SCALE: 1/8" = 1'-0"



4 MECHANICAL DEMOLITION PLAN - STADIUM CLUB AHU 3A2
SCALE: 1/8" = 1'-0"



5 MECHANICAL DEMOLITION PLAN - TRASH CHUTE FAN
SCALE: 1/8" = 1'-0"



6 MECHANICAL DEMOLITION PLAN - PANTRY 4.20.1 CU
SCALE: 1/8" = 1'-0"

KEYED MECHANICAL DEMOLITION SHEET NOTES

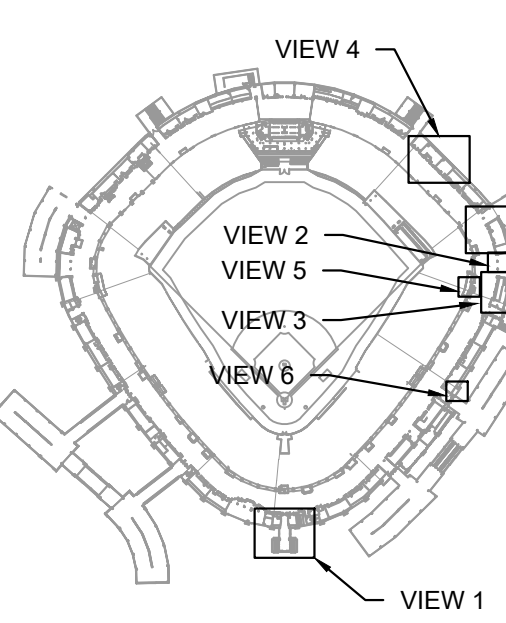
- PRE-READ AIRFLOW AT LINEAR DIFFUSERS AND RETURN FOR FAN COIL LOCATED ON FLOOR ABOVE.
- NOT USED.
- DISCONNECT AND REMOVE EXISTING SECTIONS OF STAINLESS STEEL DISHWASHER EXHAUST, INCLUDING RADIUS ELBOW CONNECTING HORIZONTAL DUCT TO RISER. INCLUDE REMOVAL OF EXISTING CEILING PROTECTION PLASTIC BARRIER AND DISCONNECTION OF BARRIER FROM EXISTING TO REMAIN DRAIN.
- DISCONNECT AND DEMOLISH EXISTING AIR HANDLER SERVING KITCHEN. REMOVE CHILD WATER PIPING AT UNIT AND CAP FOR RECONNECTION AND REUSE BY NEW AIR HANDLER TO BE INSTALLED. PROVIDE PRE-READ OF AIRFLOWS AT SUPPLY, RETURN, AND OUTSIDE AIR DUCTS BOTH WHEN KITCHEN HOOD EXHAUST FANS ARE OFF AND ON. PRE-READ CHILLED WATER FLOW AS WELL.
- CONTRACTOR IS RECOMMENDED TO USE ACCESS BETWEEN MECHANICAL ROOM AND ADJACENT PEDWAY FOR EGRESS OF EQUIPMENT TO BE REMOVED.
- DISCONNECT AND DEMOLISH EXISTING AIR HANDLER SERVING STADIUM CLUB. REMOVE CHILD WATER PIPING AT UNIT AND CAP FOR RECONNECTION AND REUSE BY NEW AIR HANDLER TO BE INSTALLED. PROVIDE PRE-READ OF AIRFLOWS AT SUPPLY, RETURN, AND OUTSIDE AIR DUCTS AS WELL AS CHILLED WATER FLOW.
- DISCONNECT EXISTING RETURN FAN AND DISASSEMBLE FOR REFINISHMENT.
- EXISTING GREASE EXHAUST DUCT TO REMAIN. PROTECT FROM DAMAGE DURING AHU DEMOLITION AND REMOVAL.
- PRE-READ AIRFLOW AT TRASH CHUTE EXHAUST GRILLE.



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GUARANTEED RATE FIELD -
HVAC REPLACEMENT PHASE XI
333 W 35TH STREET,
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DRAWING TITLE:
MECHANICAL DEMOLITION
PLANS - LEVEL 200 ENLARGED
PLANS

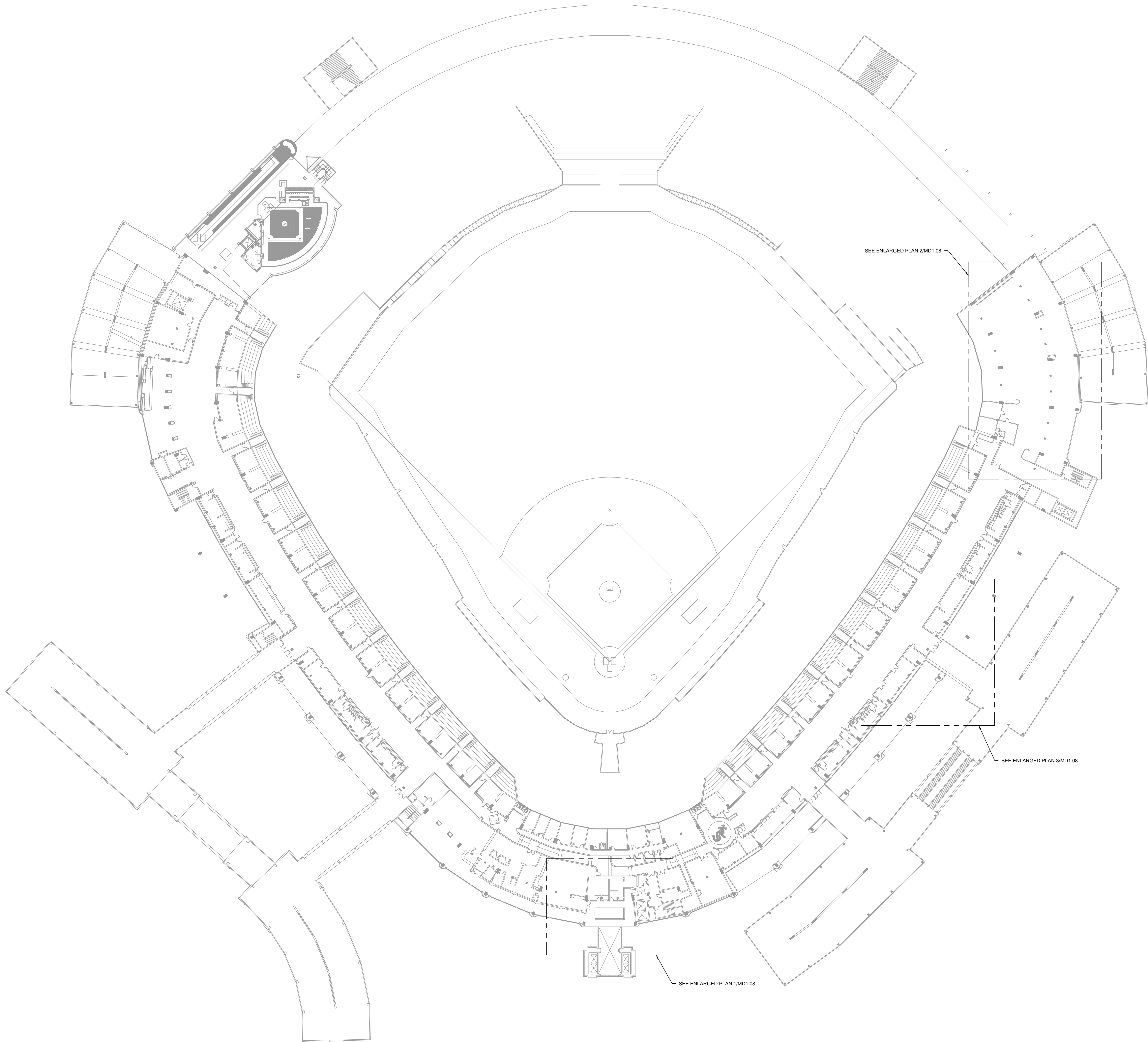
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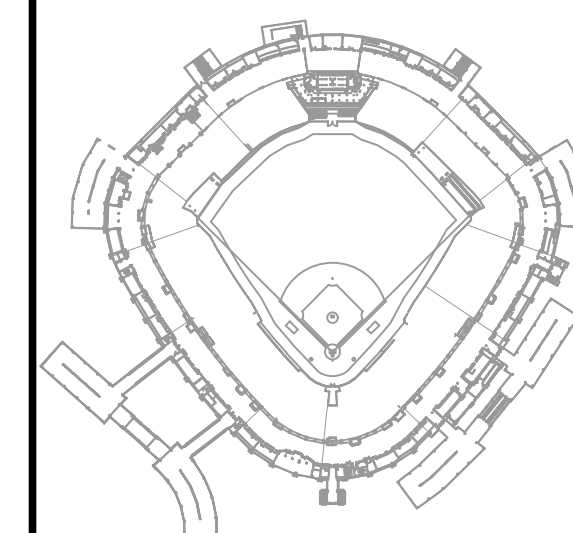
1 MECHANICAL DEMOLITION PLAN - 300 LEVEL OVERALL
SCALE: 1/32" = 1'-0" 0 16' 32' 64'



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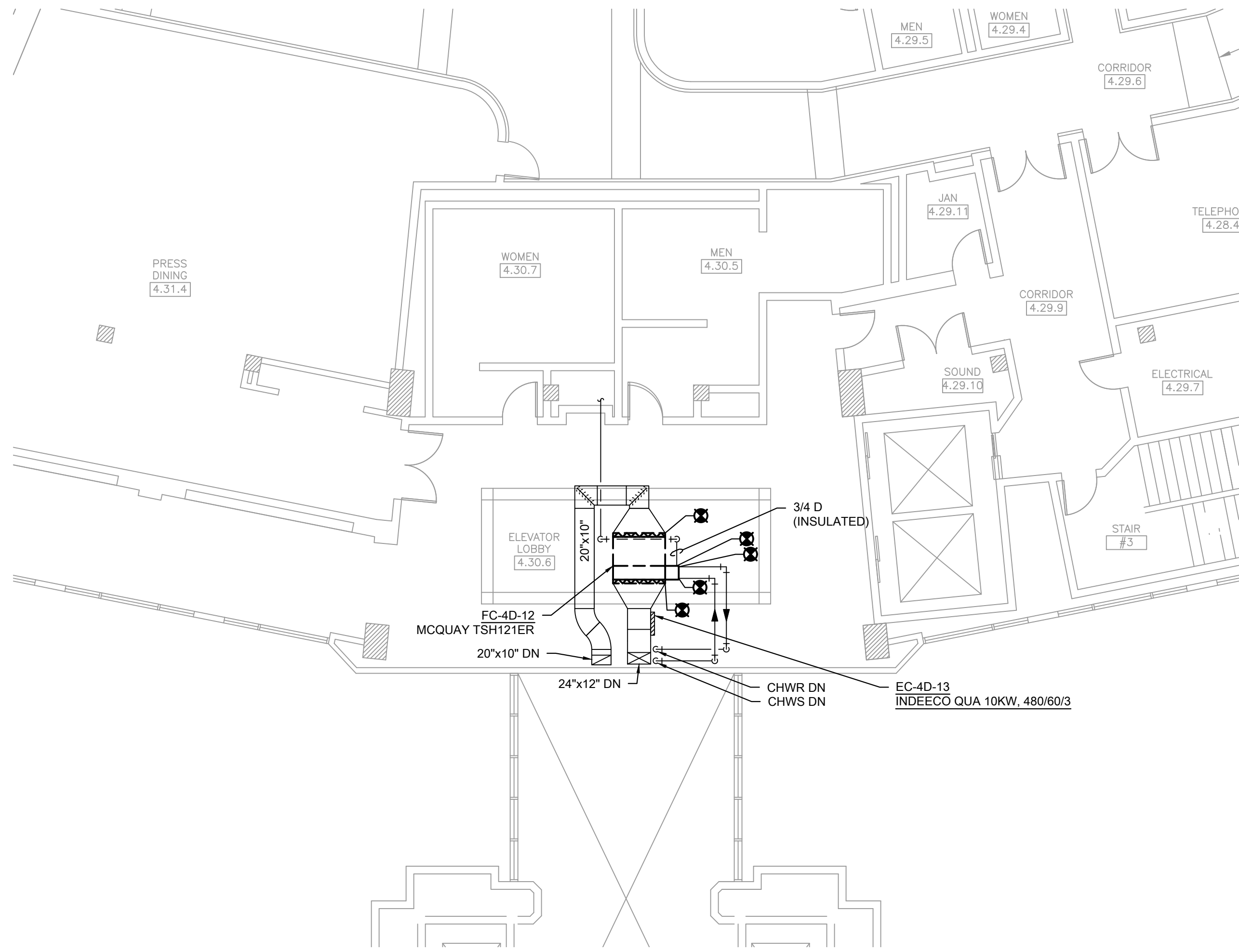
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MD1.07



1 MECHANICAL DEMOLITION PLAN - BARD'S ROOM FCU



3 MECHANICAL DEMOLITION PLAN - STORAGE 4.22 & PANTRY 4.20.1

KEYED MECHANICAL DEMOLITION SHEET NOTES

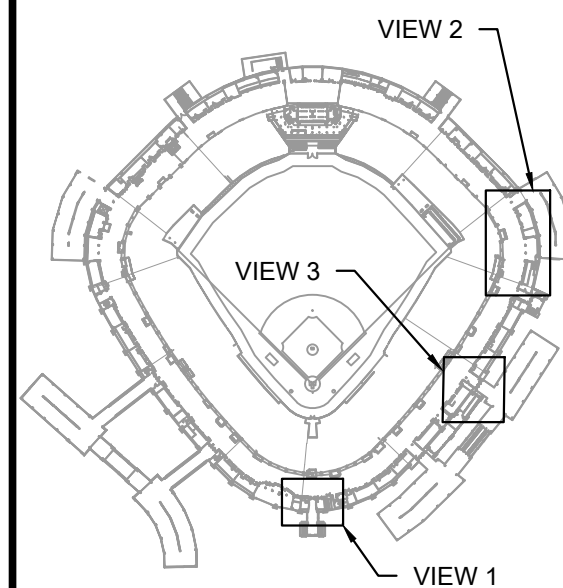
1. DISCONNECT AND DEMOLISH EXISTING CHILLED WATER FAN COIL UNIT SERVING 200 LEVEL ELEVATOR LOBBY.
2. DISCONNECT AND DEMOLISH EXISTING EXHAUST FAN.
3. DISCONNECT AND DEMOLISH EXISTING SUPPLY FAN, COOLING COIL AND ASSOCIATED REFRIGERANT PIPING. REFER TO MD1.06 FOR CONDENSING UNIT SCOPE.



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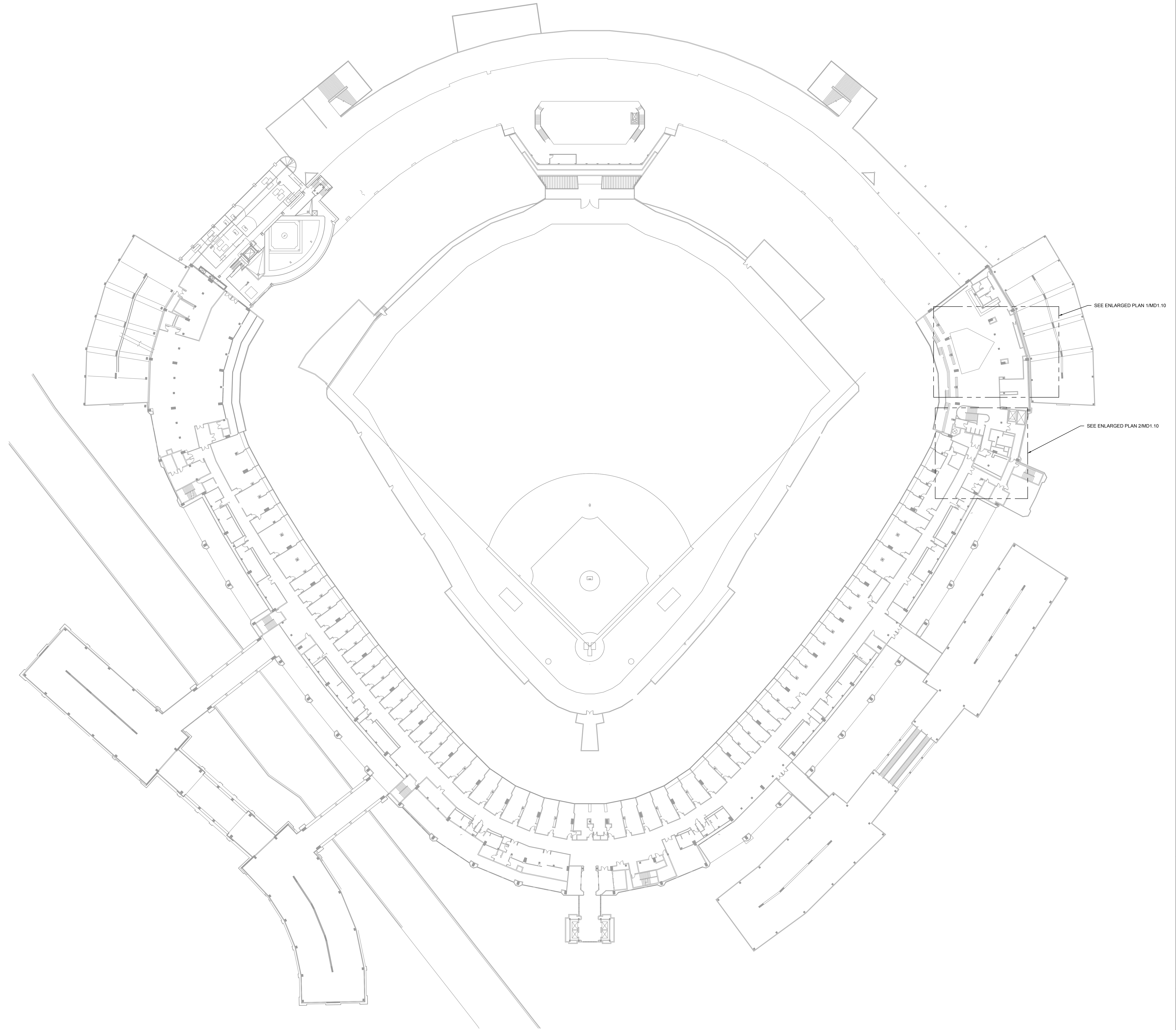
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
MECHANICAL DEMOLITION
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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MD1.08



1 MECHANICAL DEMOLITION PLAN - 400 LEVEL OVERALL

SCALE: 1/32" = 1'-0"

SEE ENLARGED PLAN 1/MD1.10

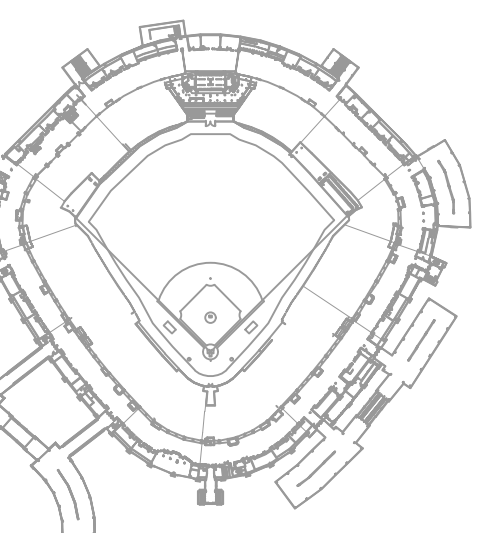
SEE ENLARGED PLAN 2/MD1.10



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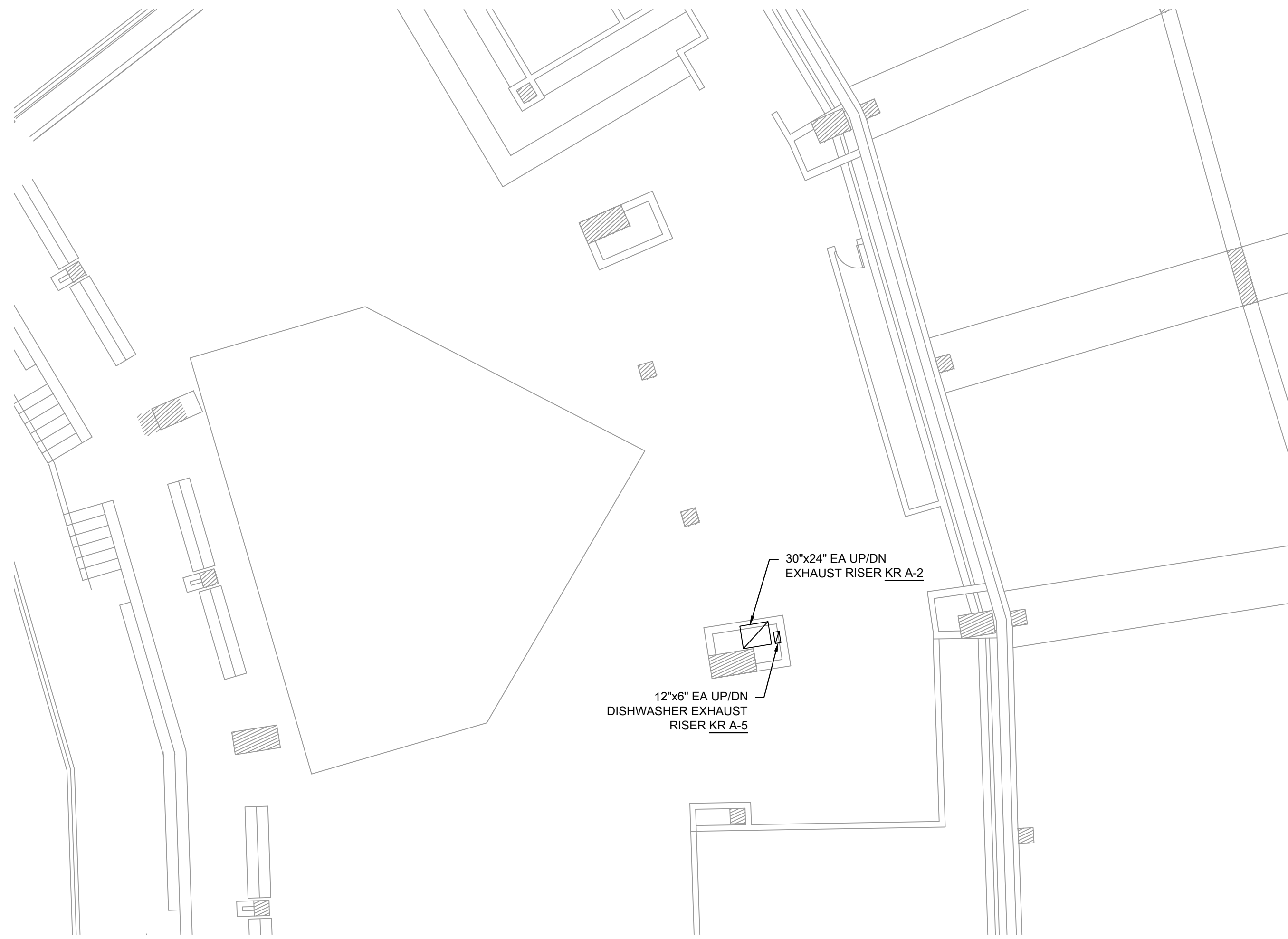
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
MECHANICAL DEMOLITION
PLANS - LEVEL 400 OVERALL

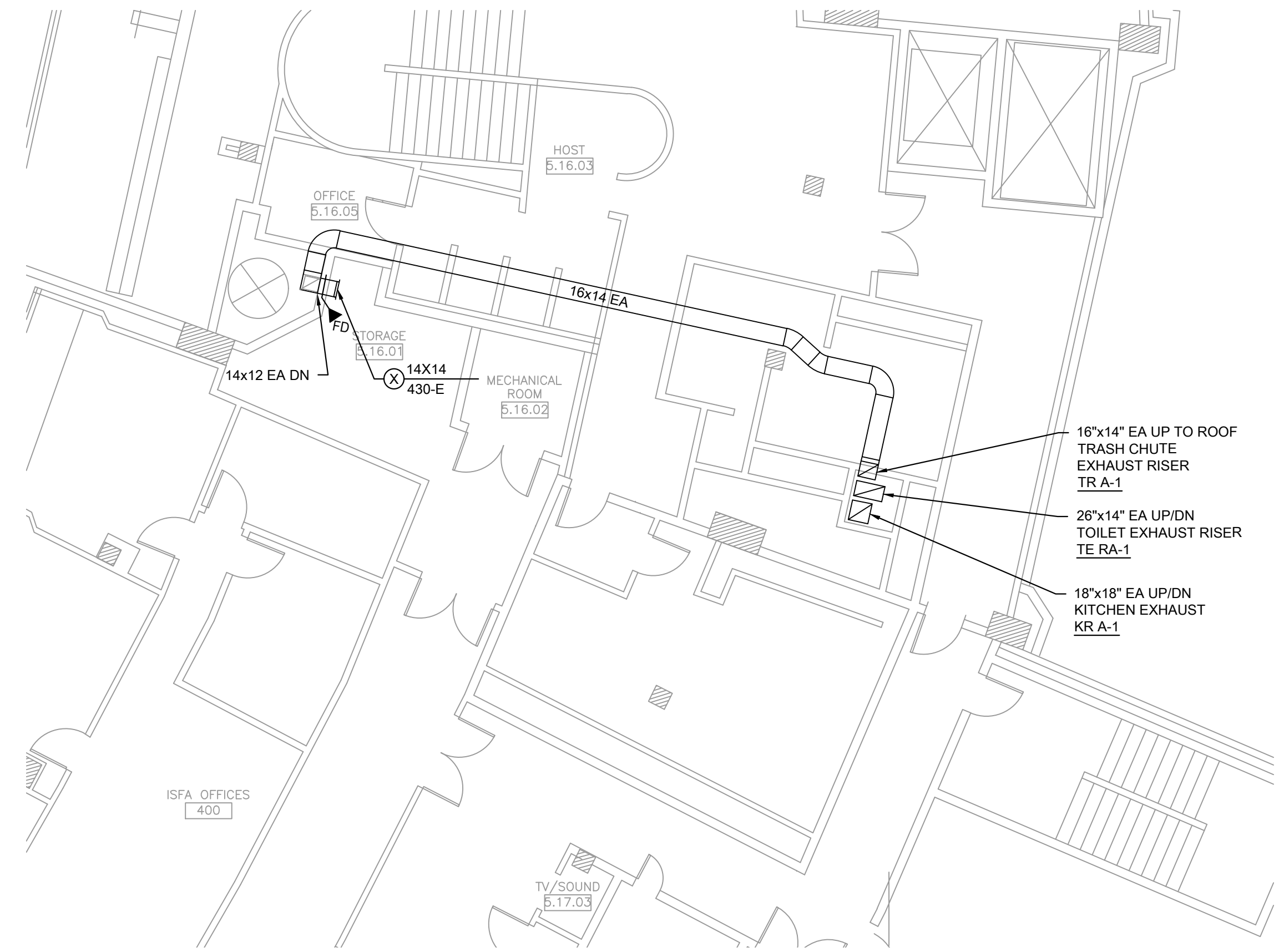
DESIGNED BY:	DA
CHECKED BY:	MS
PROJECT NO:	21276
SCALE:	1/32" = 1'-0"
SHEET NO.	

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MD1.09



1 MECHANICAL DEMOLITION PLAN - STADIUM CLUB DISHWASHER EXHAUST
SCALE: 1/8" = 1'-0"

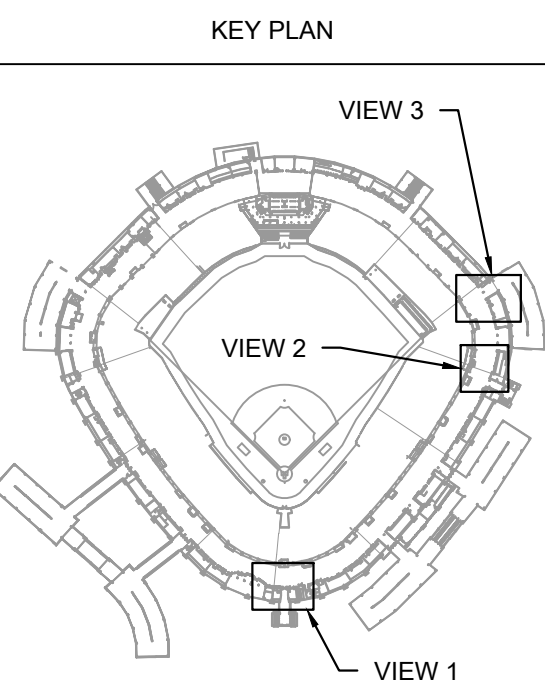


2 MECHANICAL DEMOLITION PLAN - TRASH CHUTE
SCALE: 1/8" = 1'-0"

KEYED MECHANICAL DEMOLITION SHEET NOTES		
1.	DISHWASHER EXHAUST DUCT SHOWN FOR REFERENCE ONLY.	
2.	TRASH CHUTE EXHAUST DUCT SHOWN FOR REFERENCE ONLY.	



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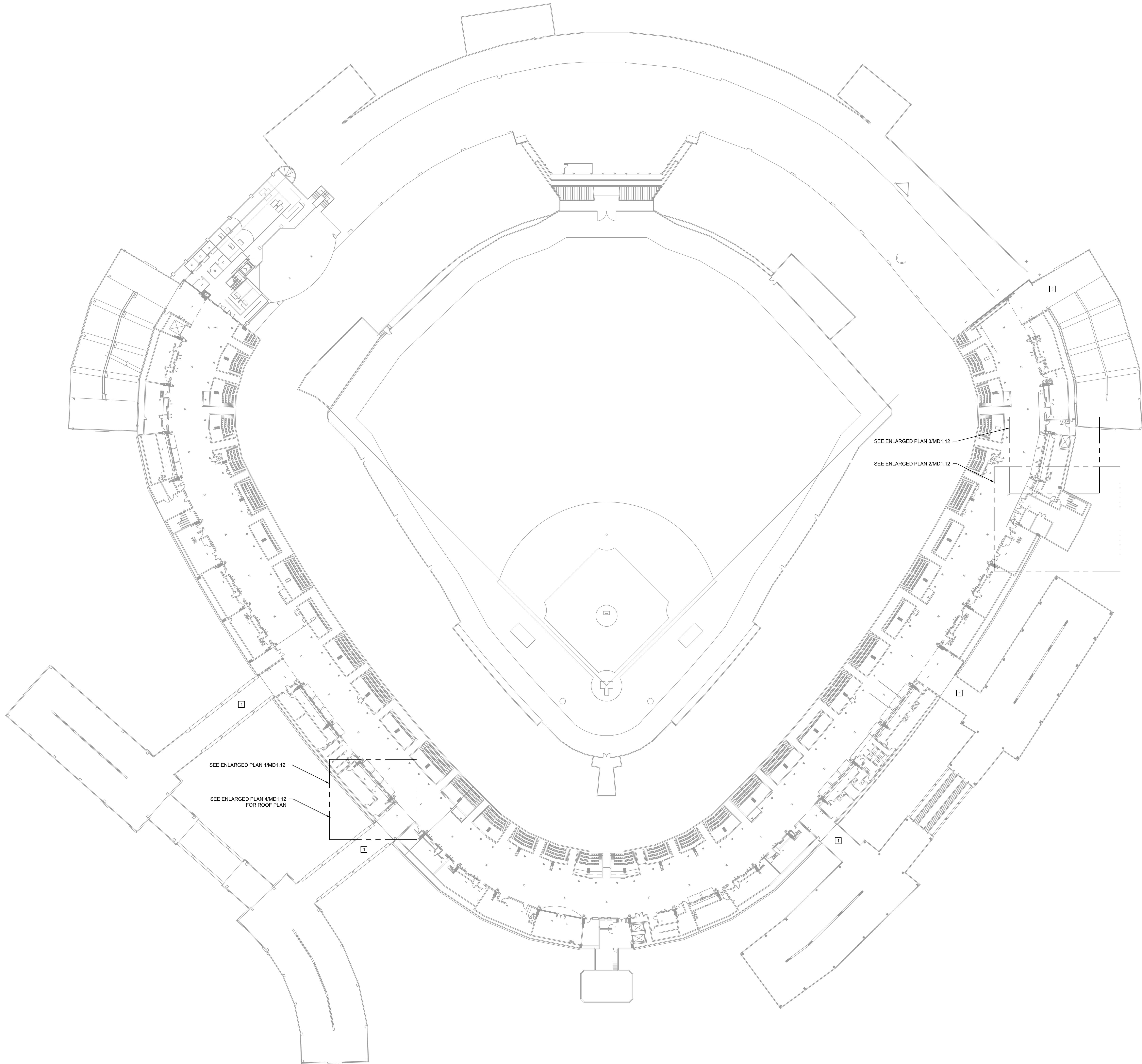
DRAWING TITLE:
MECHANICAL DEMOLITION
PLAN - LEVEL 400 ENLARGED
PLANS

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

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MD1.10



KEYED MECHANICAL DEMOLITION SHEET NOTES

1. REMOVAL OF DEMOLISHED EQUIPMENT AND INGRESS OF NEW EQUIPMENT SHOULD BE COORDINATED WITH ISFA AND CHICAGO WHITE SOX. IT IS RECOMMENDED TO UTILIZE THE EXTERIOR RAMPS FOR DELIVERING EQUIPMENT TO THE 300 AND 500 LEVELS.

1 MECHANICAL DEMOLITION PLAN - 500 LEVEL OVERALL

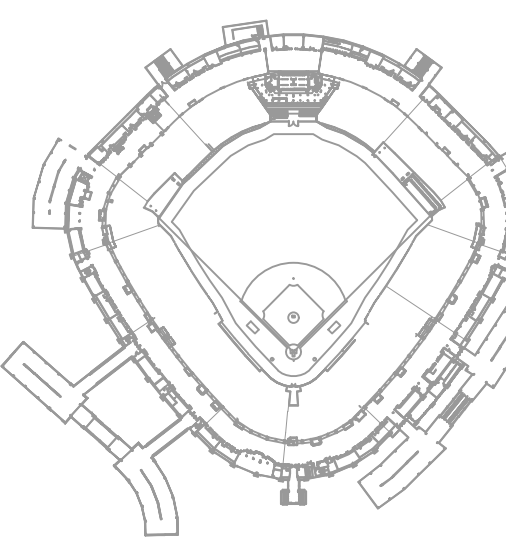
SCALE: 1/32" = 1'-0"

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ISFA
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FACILITIES AUTHORITY



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DRAWING TITLE:
MECHANICAL DEMOLITION
PLAN - LEVEL 500 OVERALL

DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21276
SCALE: 1/32" = 1'-0"

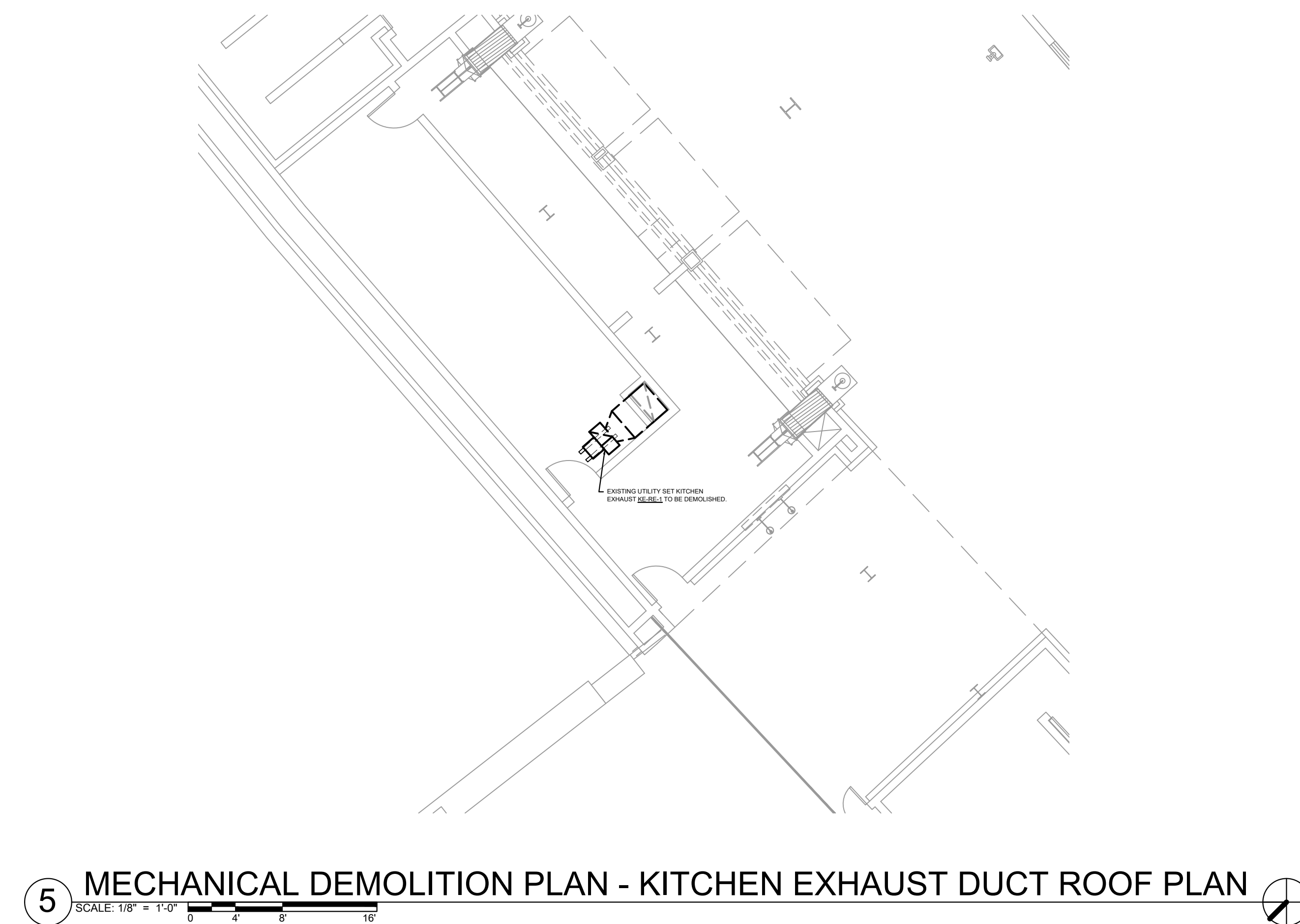
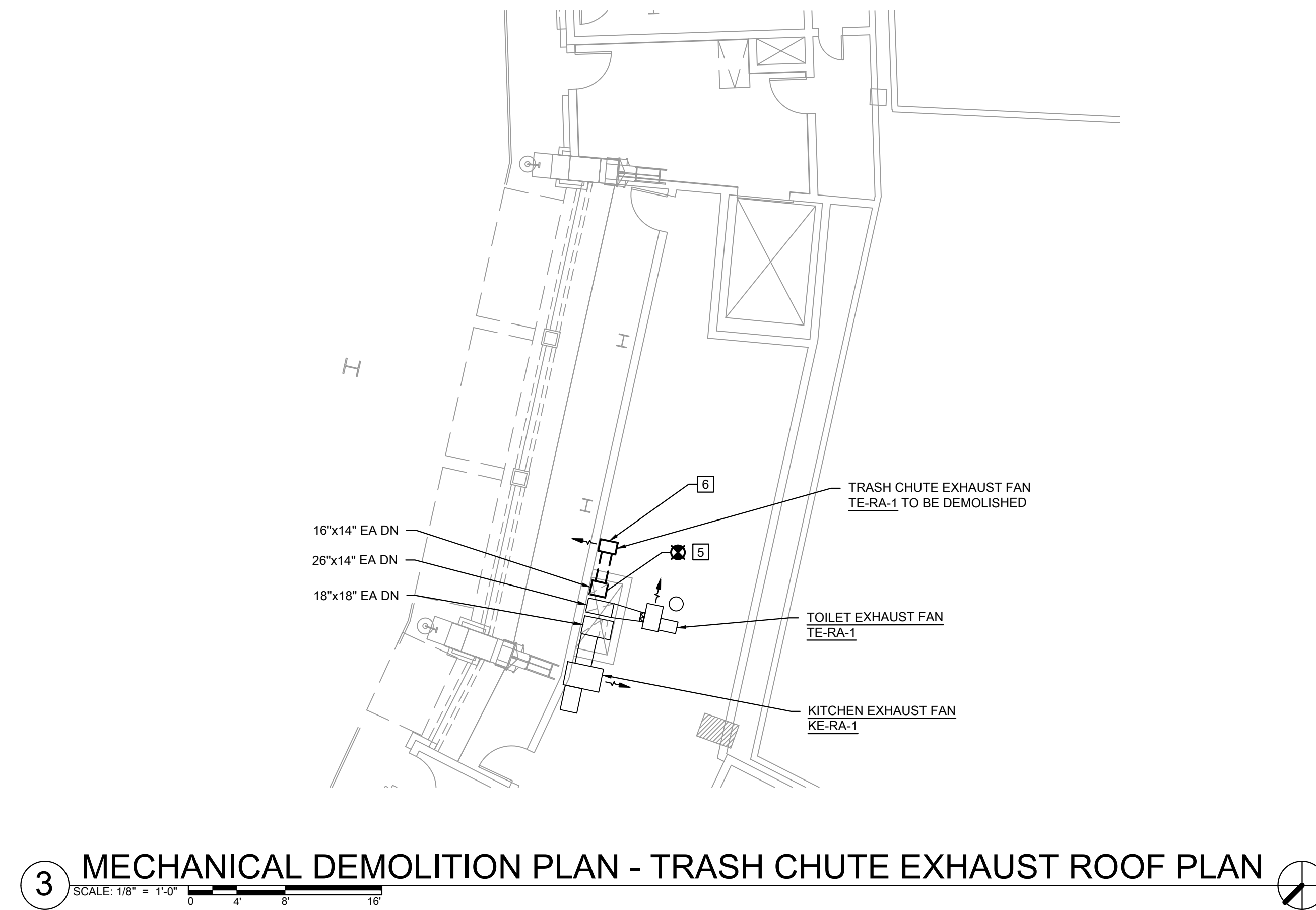
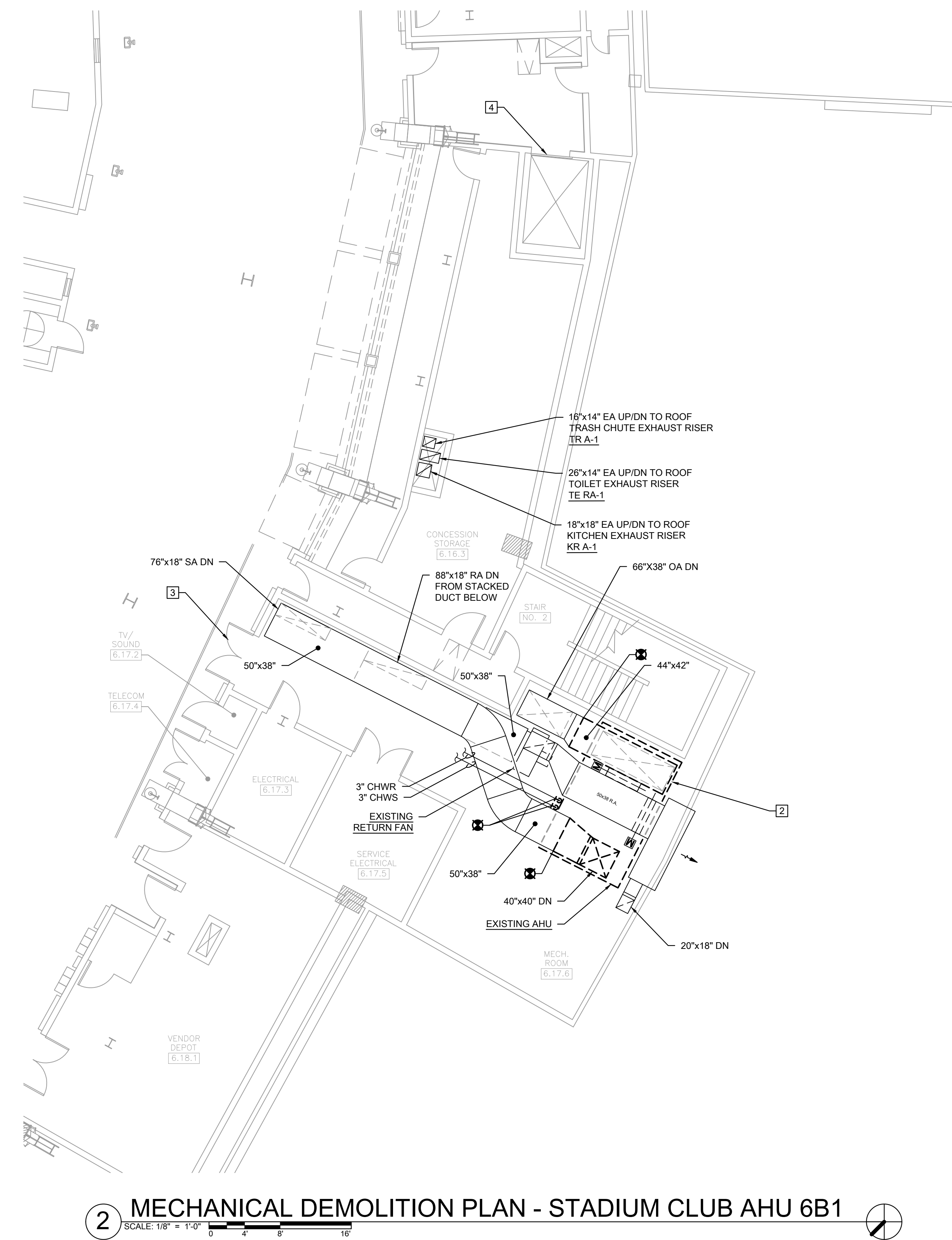
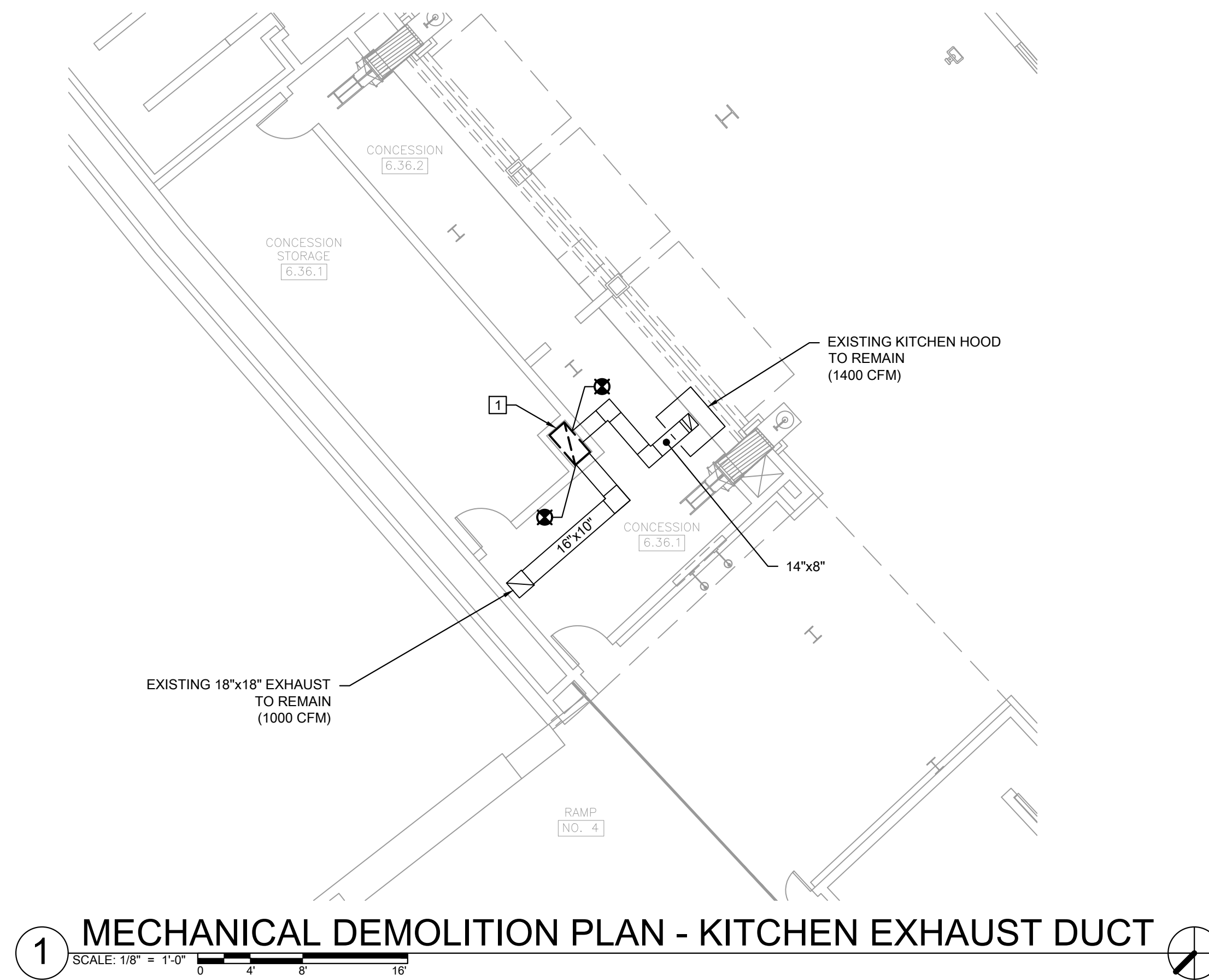
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MD1.11

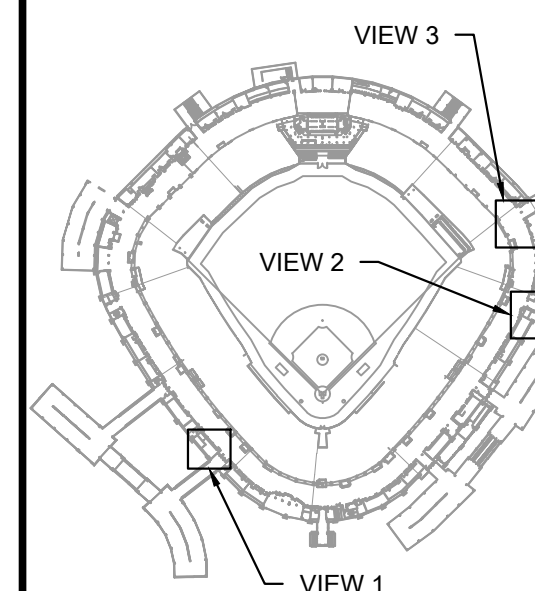


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KEYED MECHANICAL DEMOLITION SHEET NOTES	
1.	EXISTING 36"x14" KR-E1 EXHAUST RISER DN. CAP AT FLOOR AND ABANDON IN PLACE.
2.	DISCONNECT AND DEMOLISH EXISTING ELECTRIC HEAT, CHILLED WATER AIR HANDLER. REMOVE SUPPLY AND OUTSIDE AIR DUCTWORK TO FACILITATE 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 18"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



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HVAC REPLACEMENT PHASE XI

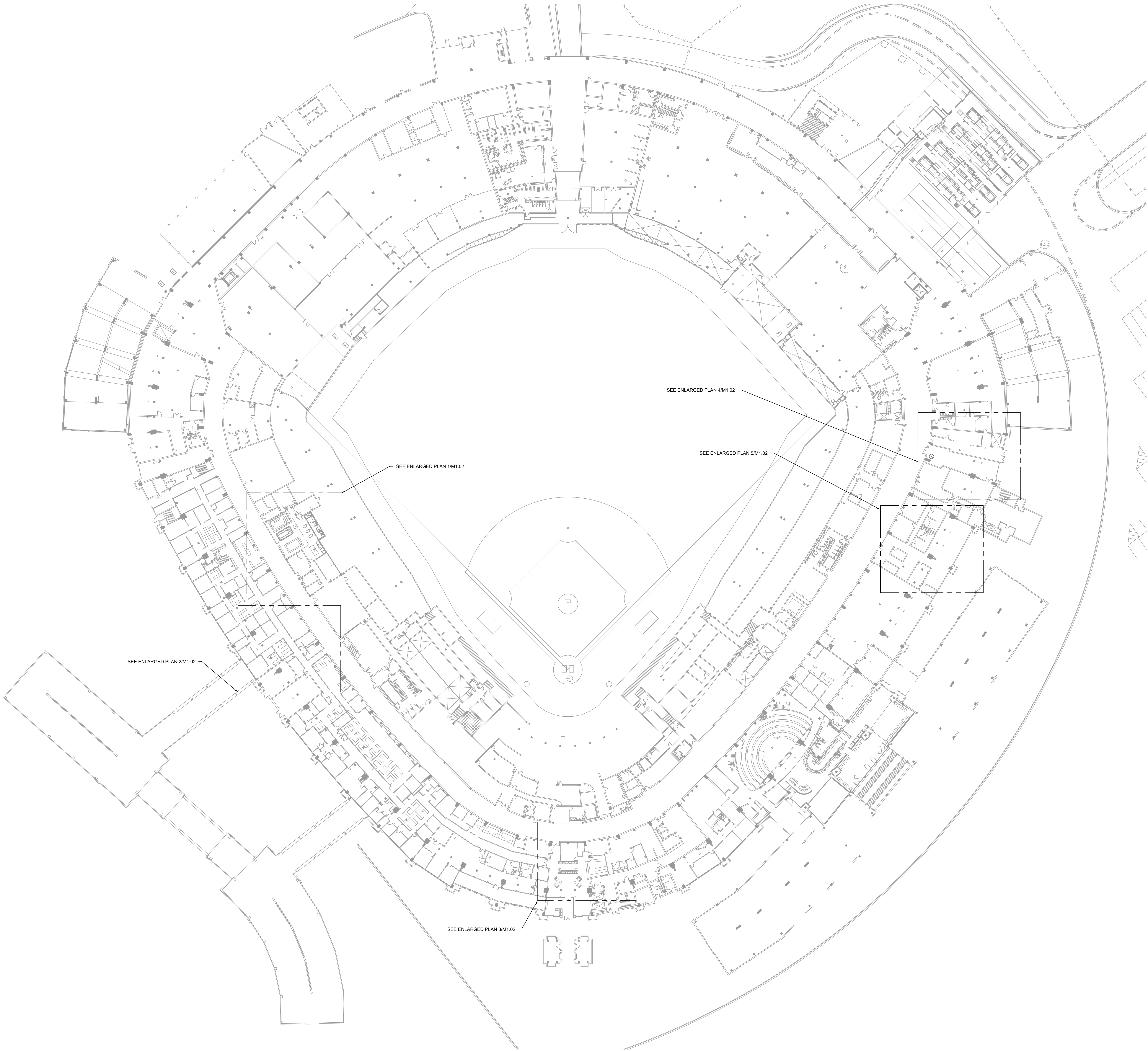
333 W 35TH STREET,
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DRAWING TITLE:
MECHANICAL DEMOLITION
PLAN - LEVEL 500 ENLARGED
PLANS

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MD1.12



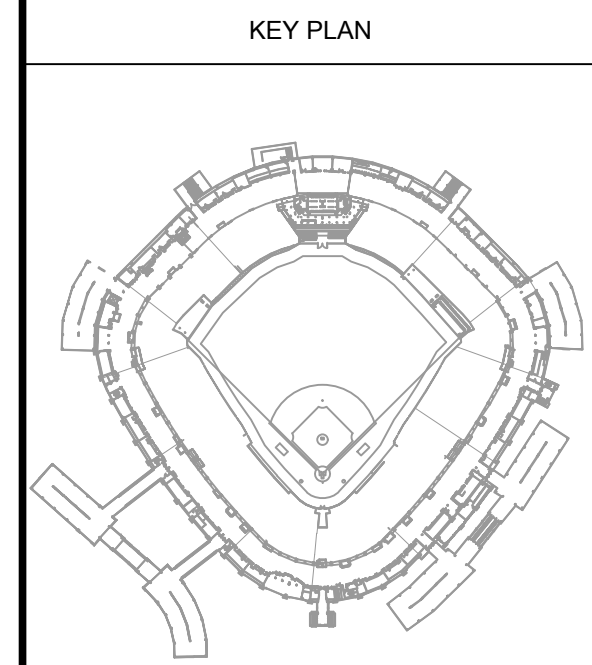
KEYED MECHANICAL NEW WORK SHEET NOTES	
1.	

1 MECHANICAL NEW WORK PLAN - CONCOURSE LEVEL OVERALL

SCALE: 1/32" = 1'-0"
0 10 20 30 40

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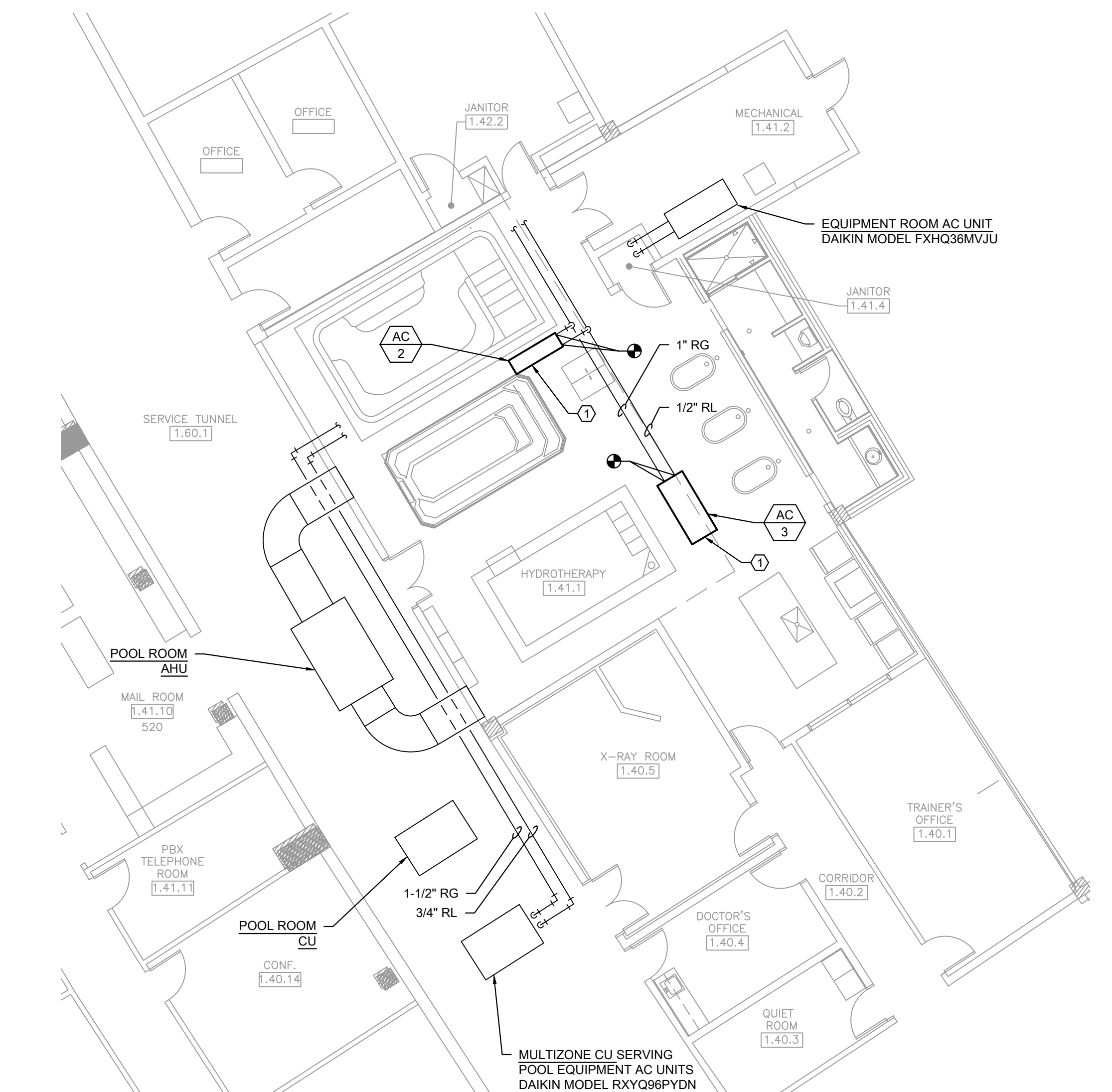
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REV.	DATE	DESCRIPTION
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PROJECT:
GUARANTEED RATE FIELD -
HVAC REPLACEMENT PHASE XI
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616
DRAWING TITLE:
MECHANICAL NEW WORK
PLAN - CONCOURSE OVERALL

DESIGNED BY:	DA
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SCALE:	1/32" = 1'-0"
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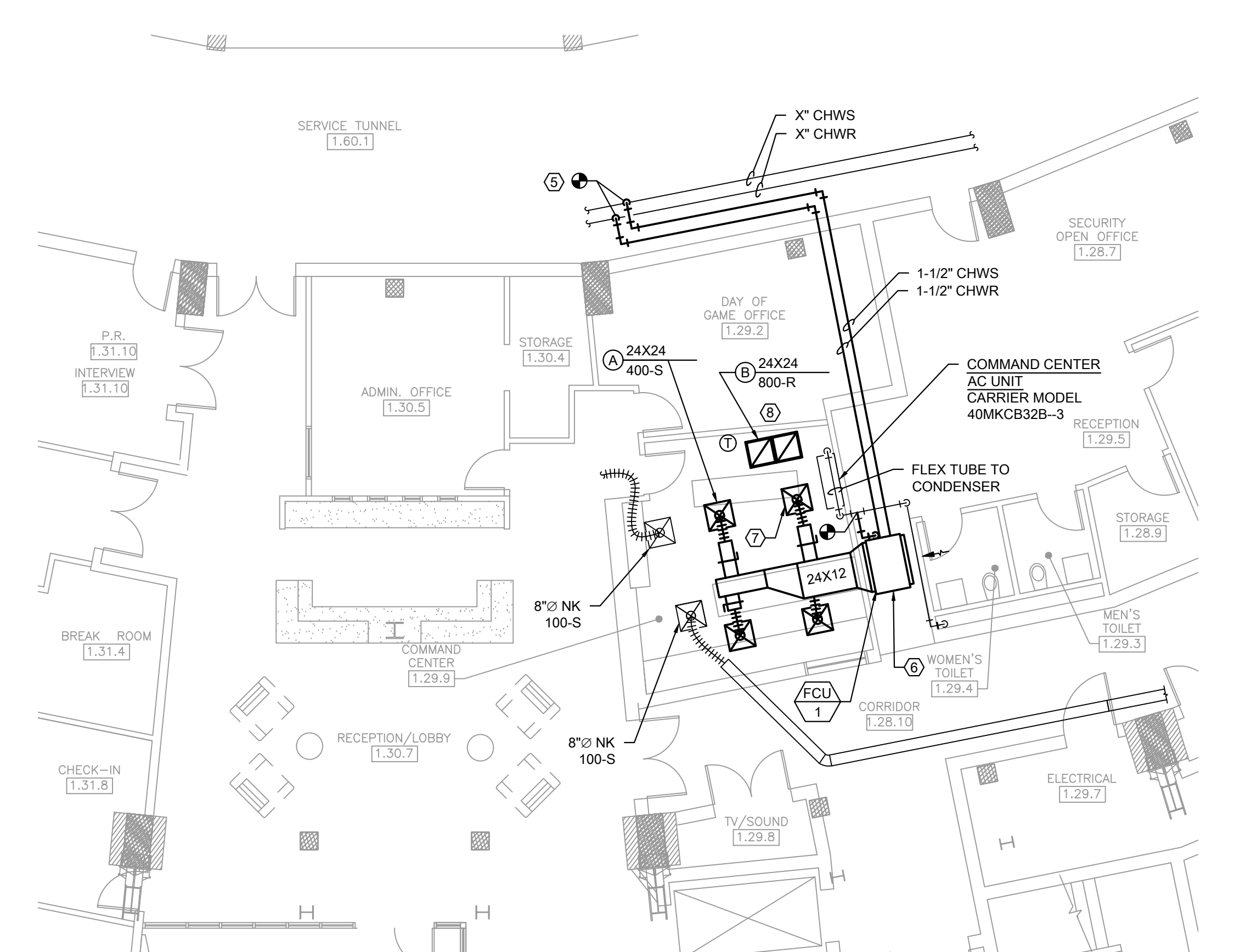
M1.01



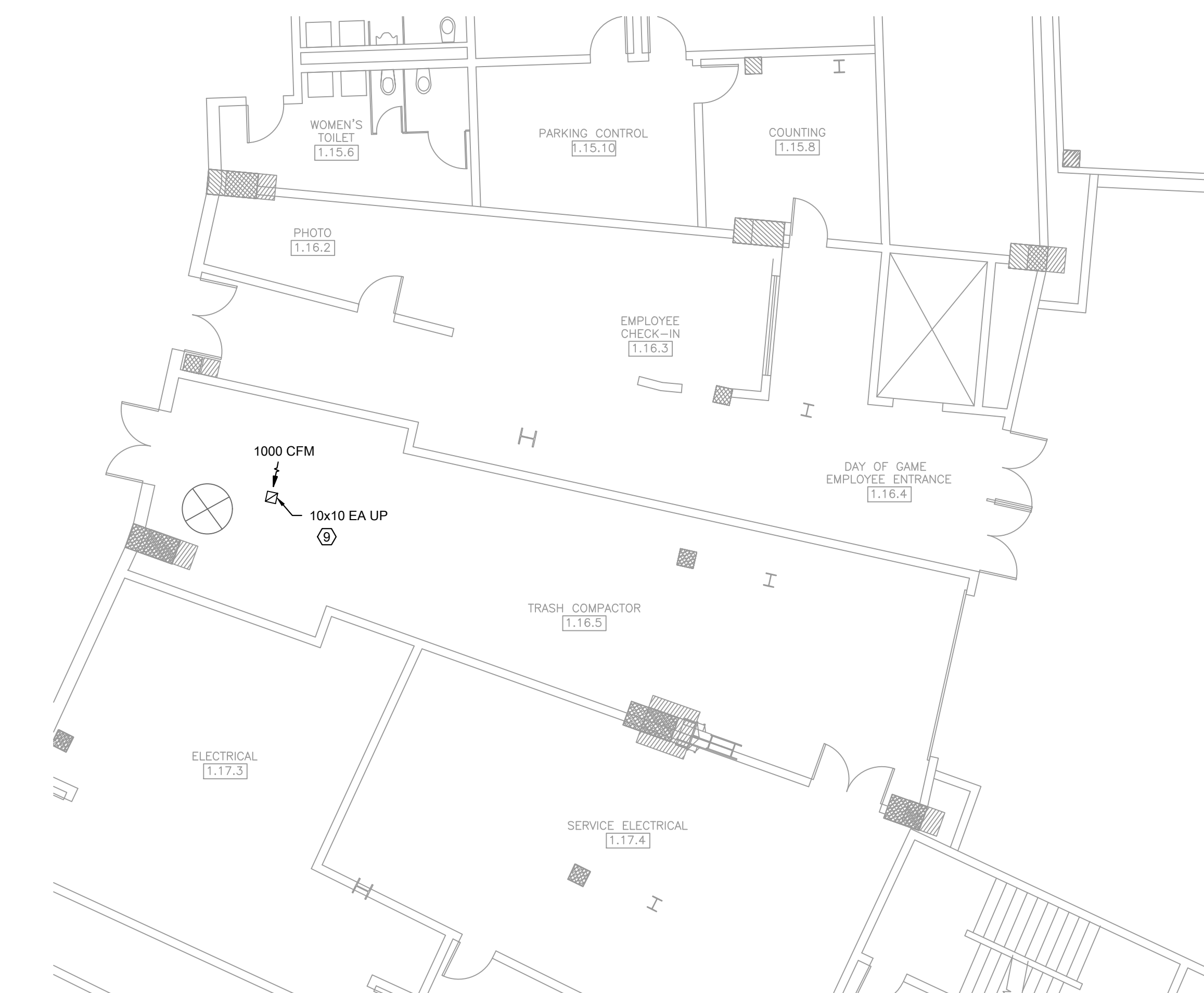
1 MECHANICAL NEW WORK PLAN - HYDROTHERAPY ROOM
SCALE: 1/8" = 1'-0"



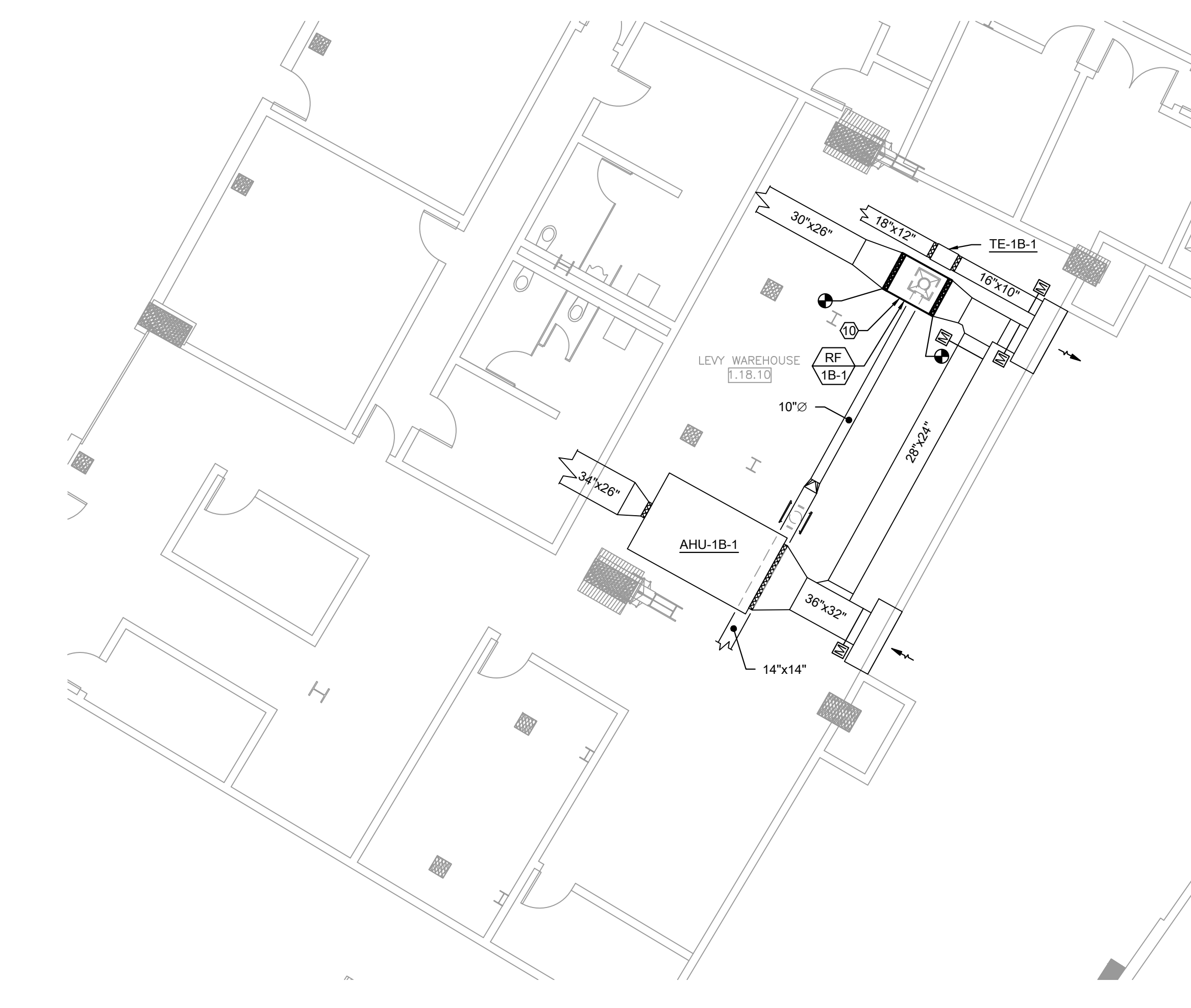
2 MECHANICAL NEW WORK PLAN - IT ROOM
SCALE: 1/8" = 1'-0"



3 MECHANICAL NEW WORK PLAN - COMMAND CENTER
SCALE: 1/8" = 1'-0"

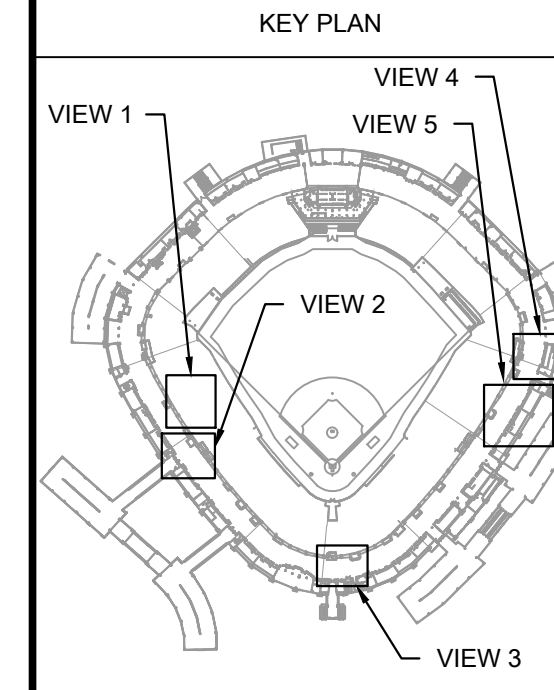


4 MECHANICAL NEW WORK PLAN - TRASH CHUTE
SCALE: 1/8" = 1'-0"



5 MECHANICAL NEW WORK PLAN - LEVY WAREHOUSE
SCALE: 1/8" = 1'-0"

- KEYED MECHANICAL NEW WORK SHEET NOTES**
1. MOUNT TWO (2) NEW CASSETTE UNITS IN LOCATIONS OF PREVIOUS UNITS. CONNECT TO EXISTING REFRIGERANT LIQUID, REFRIGERANT SUCTION, 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 AND OUT TO CORRIDOR FOR FINAL CONNECTION TO NEW CONDENSING 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" CHWS/R 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 PER SPECIFICATIONS. PROVIDE DRAIN PAN AND UNIT MOUNTED RETURN FILTER TO DRAW AIR FROM PLENUM.
 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. CONTRACTOR TO PROVIDE SCAFFOLDING OR OTHER TEMPORARY WORK PLATFORM THAT WILL NOT IMPEDE THE OPERATION OF TRASH COMPACTOR EQUIPMENT BELOW AND PROVIDE REQUIRED FALL PROTECTION F TO THEIR WORKERS AND TEST AND BALANCE SUBCONTRACTOR.
 10. 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. CONTRACTOR TO PROVIDE SCAFFOLDING OR OTHER TEMPORARY WORK PLATFORM THAT WILL NOT IMPEDE THE OPERATION OF TRASH COMPACTOR EQUIPMENT BELOW AND PROVIDE REQUIRED FALL PROTECTION F TO THEIR WORKERS AND TEST AND BALANCE SUBCONTRACTOR.
- CONTRACTOR SHALL THOROUGHLY CLEAN THE COMPLETE DUCT RUN, ALL BRANCH DUCTS, AND AIR GRILLES CONNECTED TO THIS SYSTEM. REFER TO RISER DIAGRAM AND OTHER FLOOR PLANS FOR INLETS AND ACCESS POINTS.
- ONCE INSTALLED, CONTRACTOR SHALL RETURN AFTER MANUFACTURER RECOMMENDED HOURS TO ADJUST BELT TENSION.



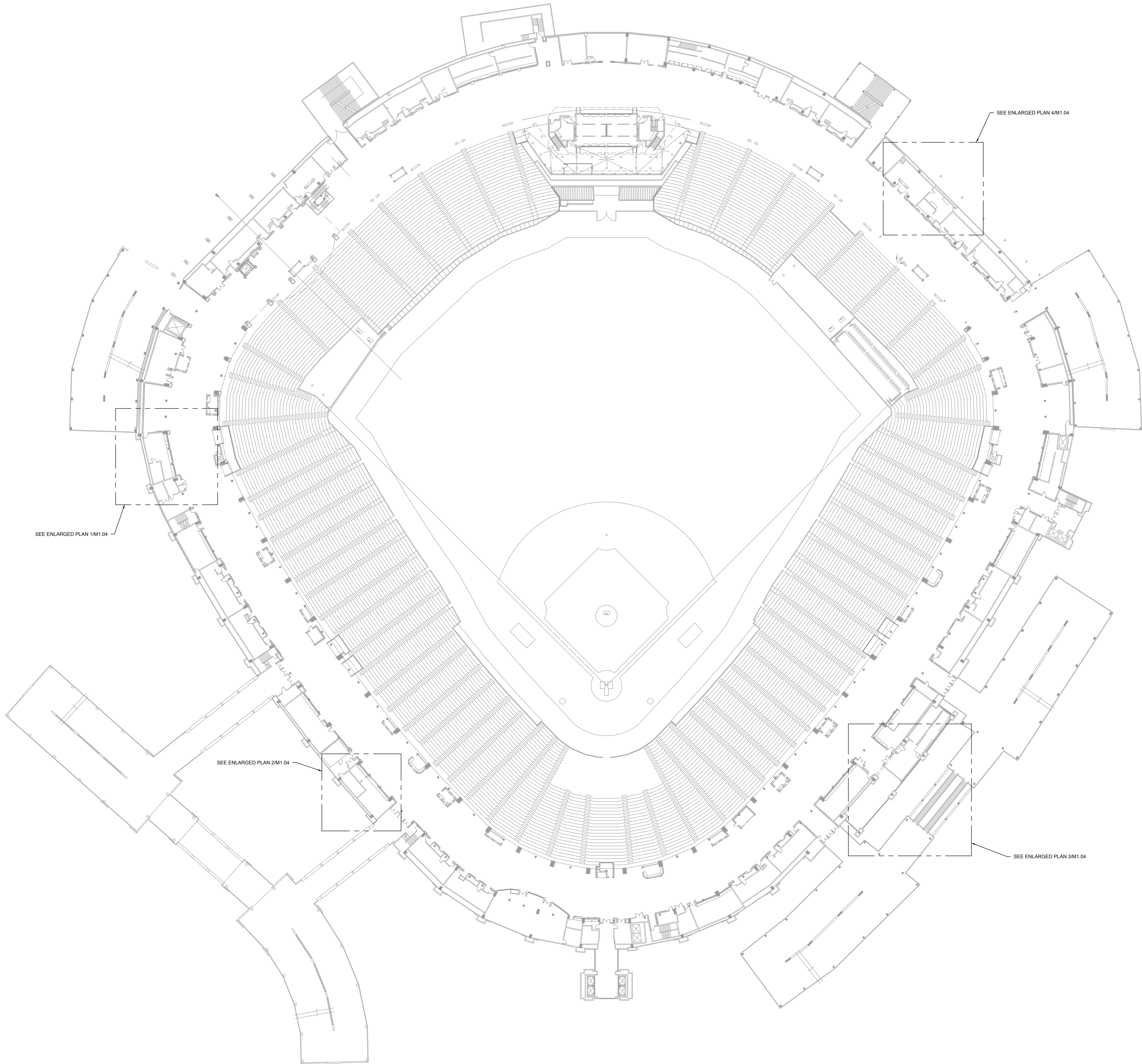
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PROJECT:
GUARANTEED RATE FIELD -
HVAC REPLACEMENT PHASE XI

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
MECHANICAL NEW WORK
PLAN - CONCOURSE
ENLARGED PLANS

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



KEYED MECHANICAL NEW WORK SHEET NOTES	
1.	

1 MECHANICAL NEW WORK PLAN - 100 LEVEL OVERALL

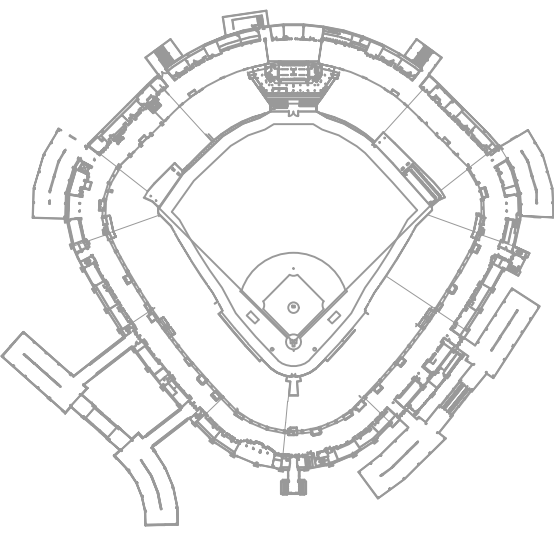
SCALE: 1/32" = 1'-0"
0 16' 32' 64'



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KEY PLAN



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HVAC REPLACEMENT PHASE XI

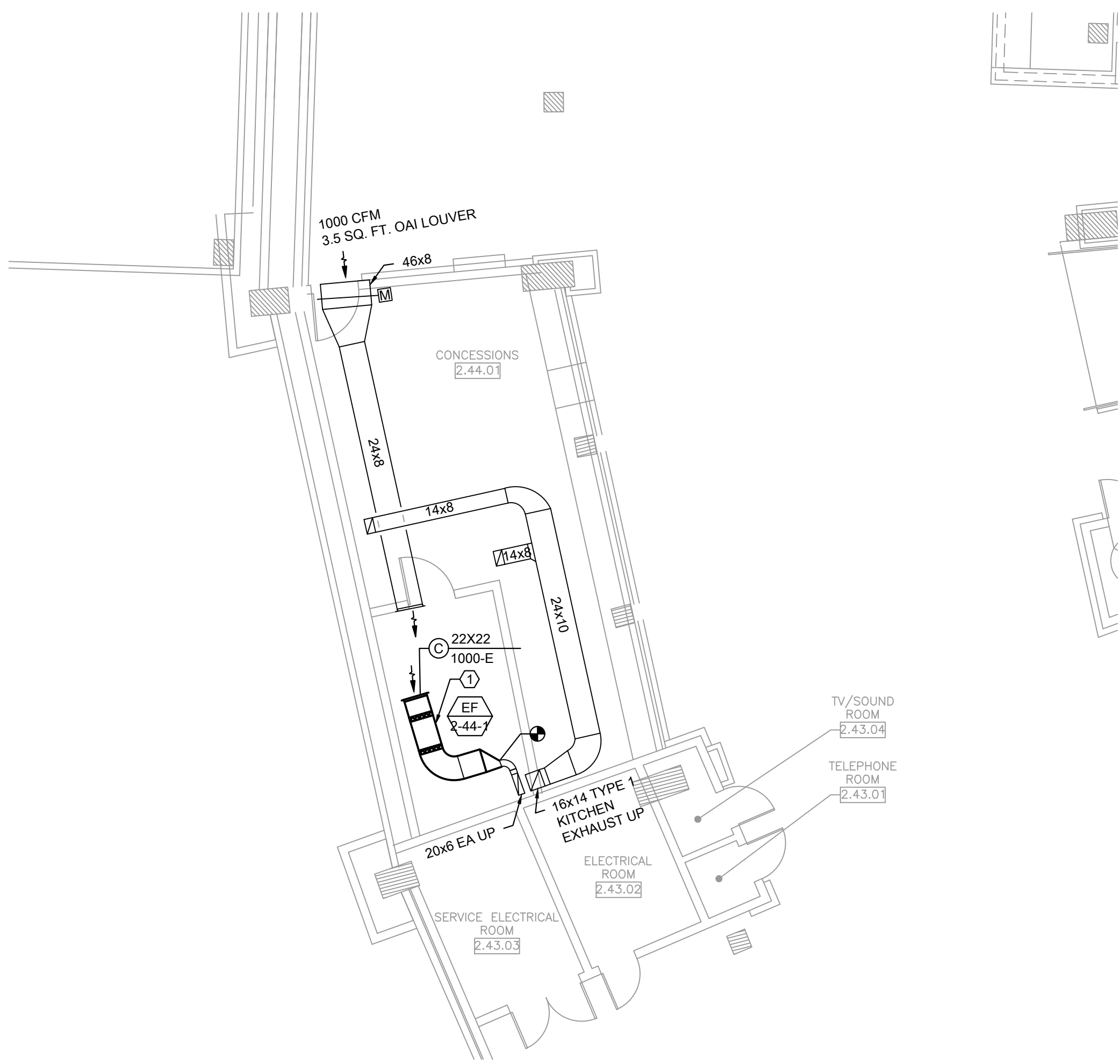
333 W 35TH STREET,
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DRAWING TITLE:
MECHANICAL NEW WORK
PLAN - LEVEL 100 OVERALL

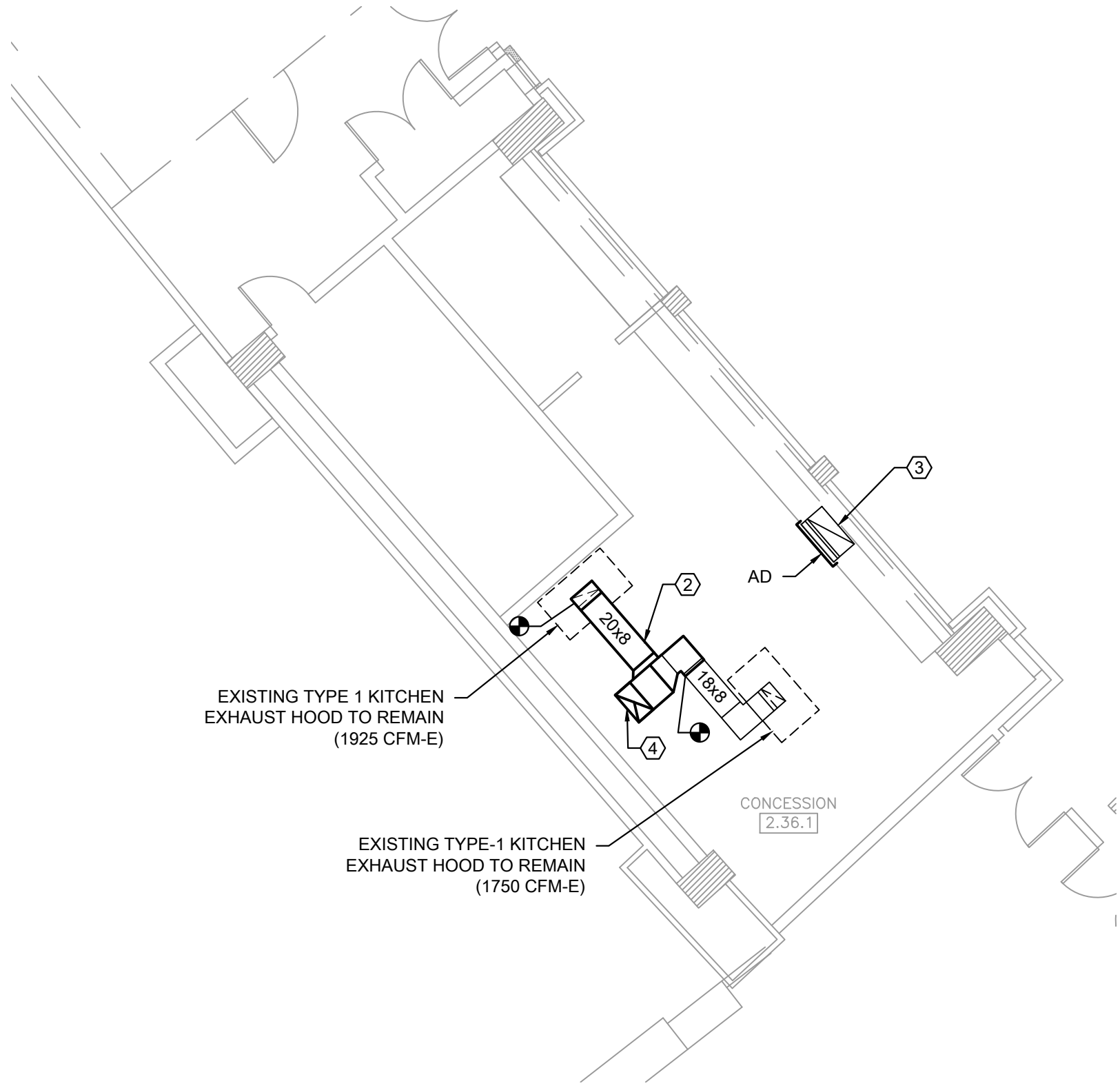
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PROJECT NO:	21276
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SHEET NO.	

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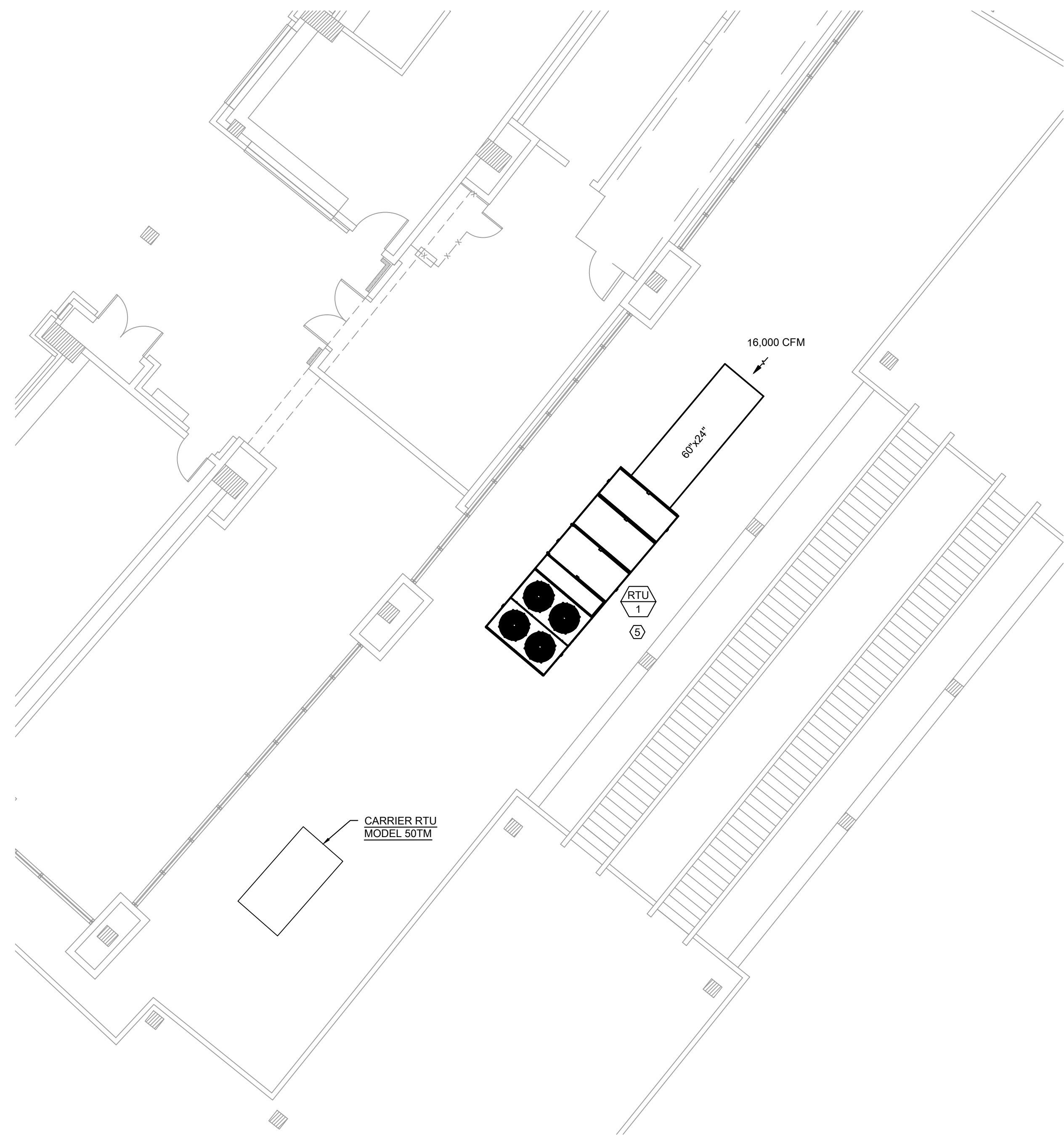
M1.03



1 MECHANICAL NEW WORK PLAN - SECTION 154 CONCESSION COOLING

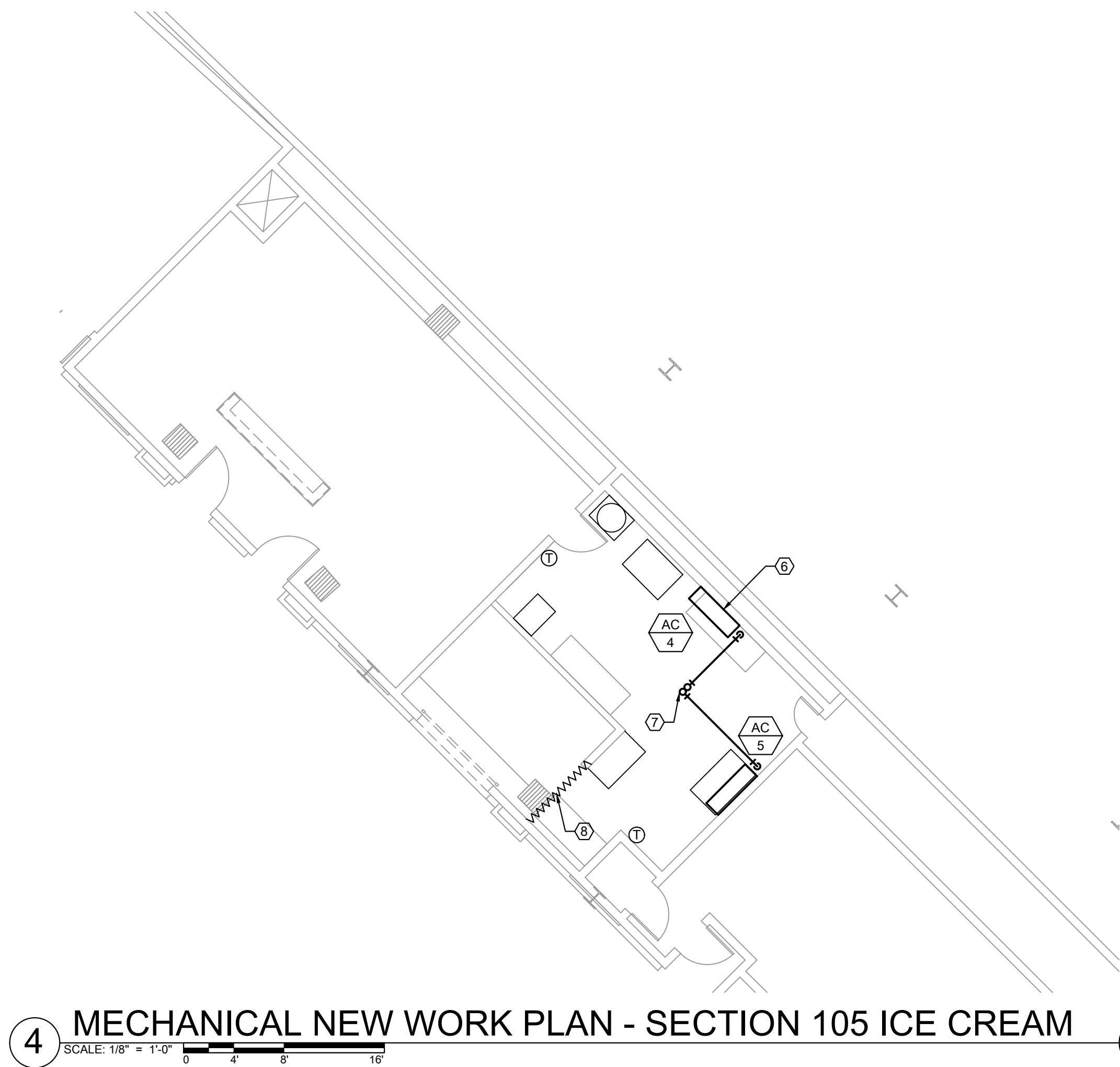


2 MECHANICAL NEW WORK PLAN - KITCHEN EXHAUST

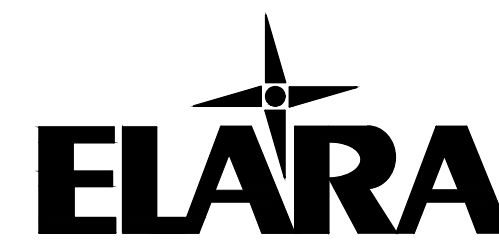


3 MECHANICAL NEW WORK PLAN - SCOUTS LOUNGE ROOF

- 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 # 1-5025-5032. CONNECT TO EXISTING SUPPLY AND RETURN DUCTS BELOW. COORDINATE INTEGRATION OF NEW UNIT INTO EXISTING SIEMENS BAS WITH OWNER DESIGNATED BAS REPRESENTATIVE.
 6. INSTALL NEW WALL MOUNTED DX CASSETTE UNIT. 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.



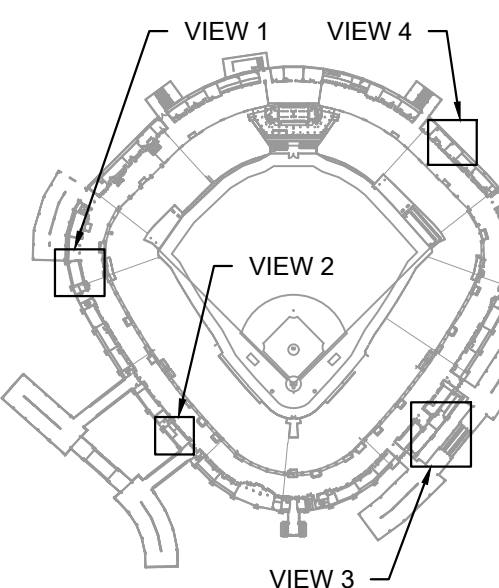
4 MECHANICAL NEW WORK PLAN - SECTION 105 ICE CREAM



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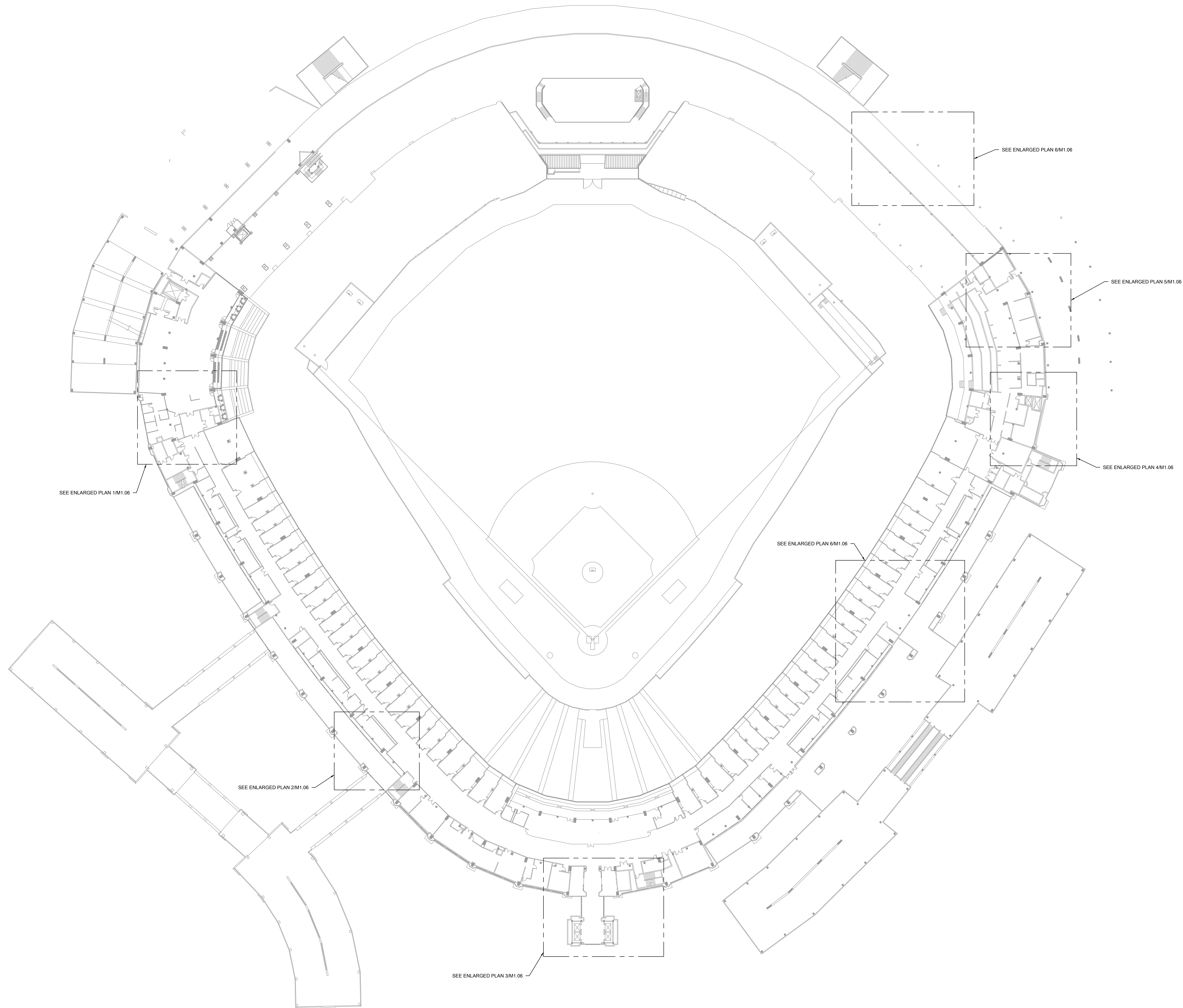
DRAWING TITLE:
MECHANICAL NEW WORK
PLAN - LEVEL 100 ENLARGED
PLANS

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

SHEET NO.

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M1.04



1 MECHANICAL NEW WORK PLAN - 200 LEVEL OVERALL

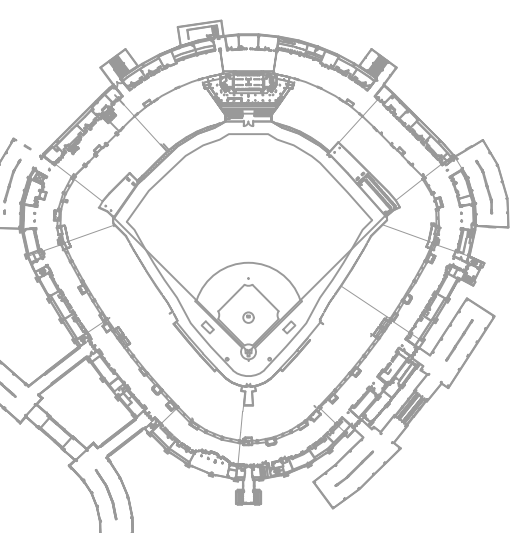
SCALE: 1/32" = 1'-0"



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HVAC REPLACEMENT PHASE XI

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DRAWING TITLE:
MECHANICAL NEW WORK
PLAN - LEVEL 200 OVERALL

DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21276
SCALE: 1/32" = 1'-0"

SHEET NO.

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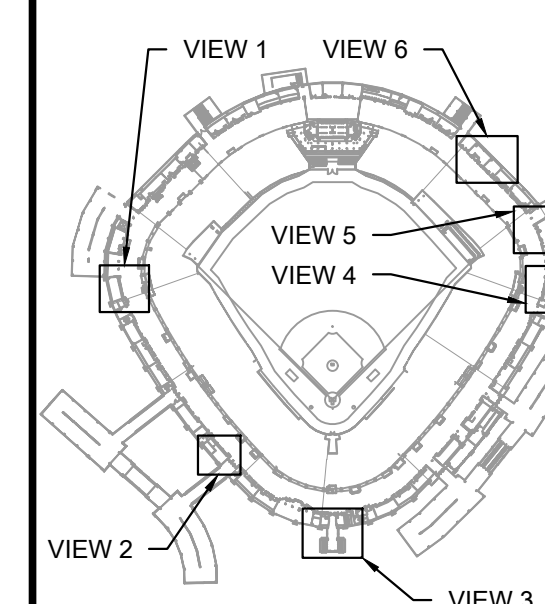
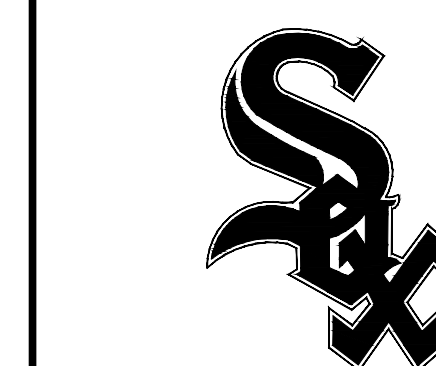
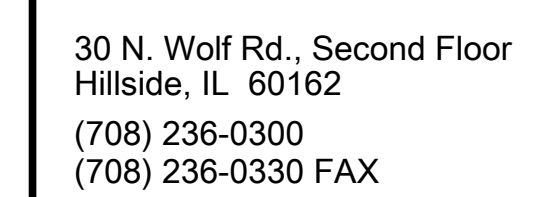
M1.05



KEYED MECHANICAL NEW WORK SHEET NOTES

②

1. CONCESSIONS EXHAUST DUCT SHOWN FOR REFERENCE.
2. 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.
3. NEW 25"x24" DUCT WITH AUTOMATIC CONTROL, DAMPER INTER-LOCKED WITH OPERATION OF KEF-1 BALANCE DAMPER TO ALLOW 1625 CFM OF DILUTION AIR TO MIX WITH GREASE LADEIN KITCHEN EXHAUST FAN BELOW WHEN FAN IS RUNNING. TERMINATE WITH ANGLE IRLET TO PREVENT RAIN & SNOW INFILTRATION AND BIRD SCREEN. BOTTOM OF INTAKE OPENING SHALL BE A MINIMUM OF 24" ABOVE THE ROOF LEVEL.
4. CONNECT FULLY WELDED GREASE DUCT TO EXHAUST FAN WITH SECURELY BOLTED FLANGES & GASKET AS REQUIRED CODE.
5. NEW 20"x14" WELDED BLACK IRON KITCHEN EXHAUST DUCT DN FROM TYPE 1 HOODS BELOW. PROVIDE CURB RATED FOR HIGH TEMP EXHAUST. OPENING SHALL BE INSULATED AND WETTERPROTECTED.
6. TERMINATE KEF-1 OUTLET UPWARD. OUTLET SHALL BE AT A MINIMUM OF 40" ABOVE ROOF LEVEL AS REQUIRED BY CODE. DIRECT PLUME AT 45° ANGLE UP AND AWAY FROM ADJACENT BUILDING TO PREVENT ACCUMULATION OF SMOKE & GREASE ON STRUCTURE ABOVE.
7. DISTRIBUTION AND AIR OUTLETS ASSOCIATED WITH BARDS ROOM FCU SHOWN FOR REFERENCE ONLY. DUCTS ARE HIGH, TIGHT TO STRUCTURE AND INACCESSIBLE BEHIND DRYWALL CEILING.
8. INSTALL NEW AIR HANDLER IN LOCATIONS OF PREVIOUSLY DEMOLISHED UNIT. PROVIDE NEW DUCTWORK WITH INSULATION TO CONNECT EXISTING OUTSIDE AIR IN AND SUPPLY AIR DUCTS TO NEW UNIT INLET AND OUTLET. THE EXISTING RETURN TO NEW OUTSIDE AIR DUCT.
9. DISASSEMBLE, CLEAN, AND PERFORM INSPECTION OF EXISTING RETURN FAN. REPLACE FAN COMPONENTS AND RELUBRICATE PER MANUFACTURERS RECOMMENDATIONS.
10. CONNECT NEW AHU CHILLED WATER COIL TO EXISTING PIPING DOWNSTREAM OF EXISTING CONTROL VALVE.
11. INSTALL NEW CONDENSING UNIT ASSOCIATED WITH ICE CREAM COOLING BELOW. PROVIDE NEW ROOF CURB AND PIPE PENETRATION PORTAL.
12. INSTALL NEW EXHAUST FAN SERVING ICE CREAM SERVING AREA BELOW. PROVIDE NEW ROOF CURB.
13. INSTALL NEW CONDENSING UNIT AND REFRIGERANT PIPING ASSOCIATED WITH PANTRY 4.20.1 COOLING UNIT ON LEVEL ABOVE. REFER TO M1-08 FOR CONTINUATION.

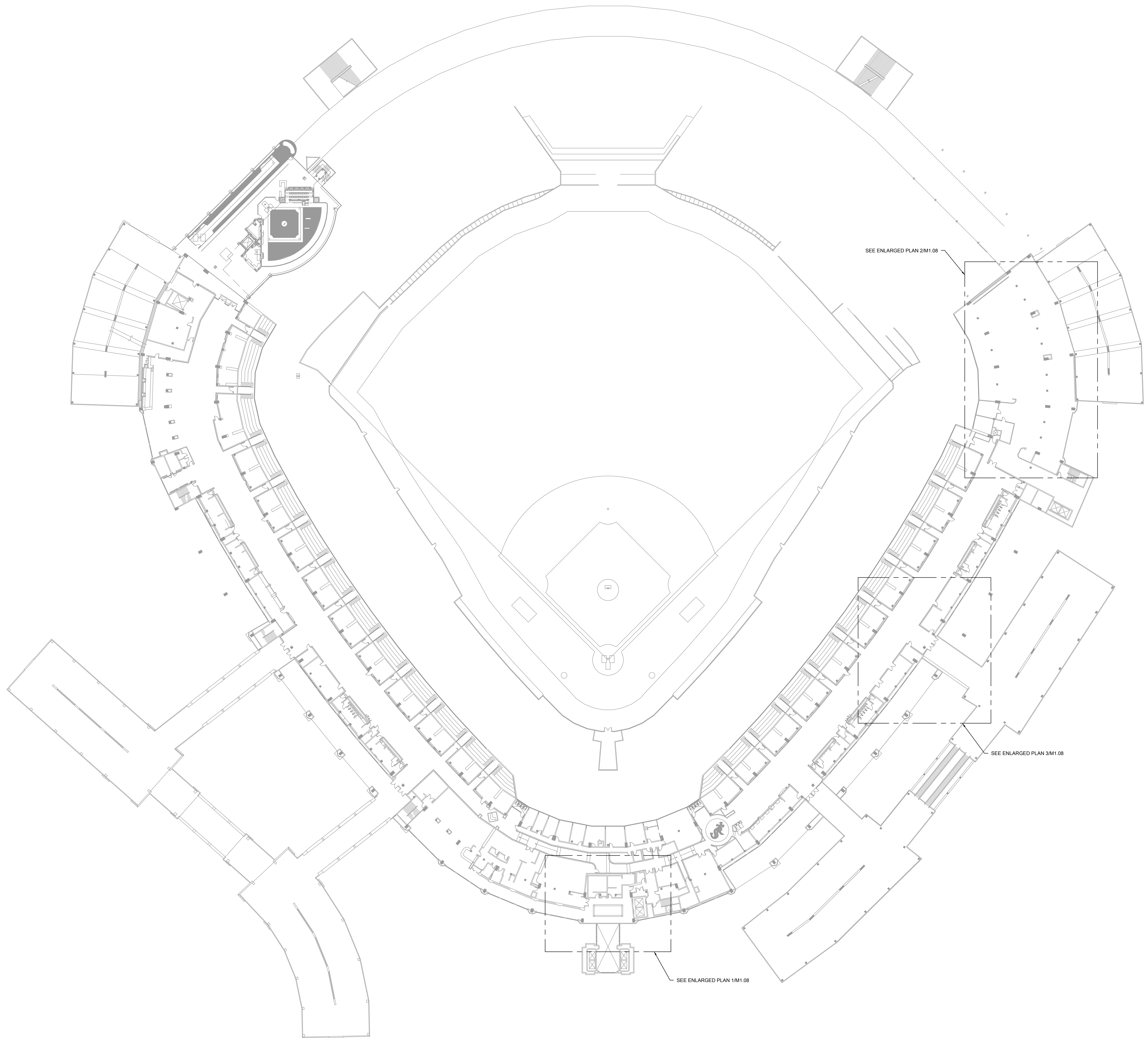
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SCALE:	1/8" = 1'-0"
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M1.06

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1 MECHANICAL NEW WORK PLAN - 300 LEVEL OVERALL

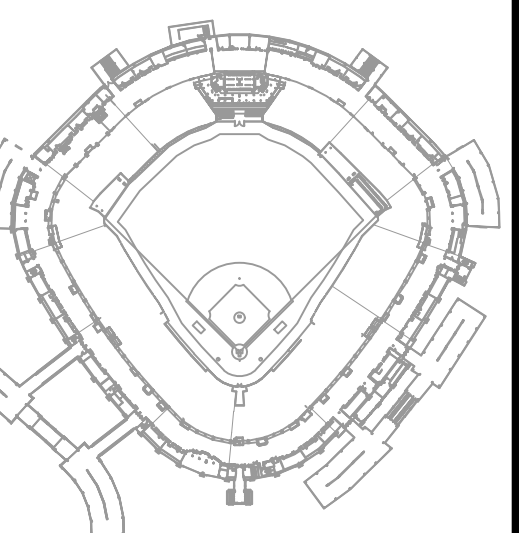
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DRAWING TITLE:
MECHANICAL NEW WORK
PLANS - LEVEL 300 OVERALL

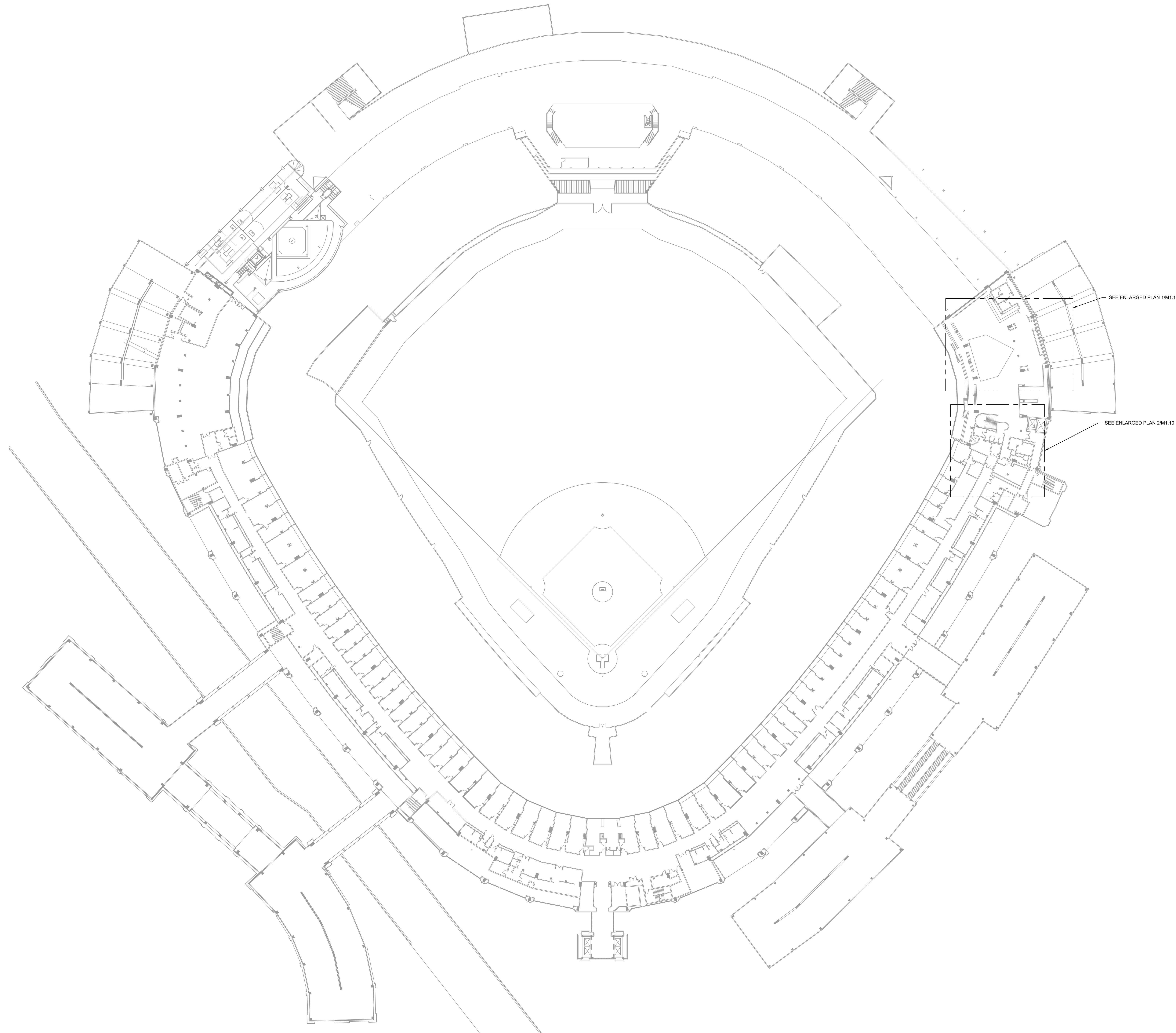
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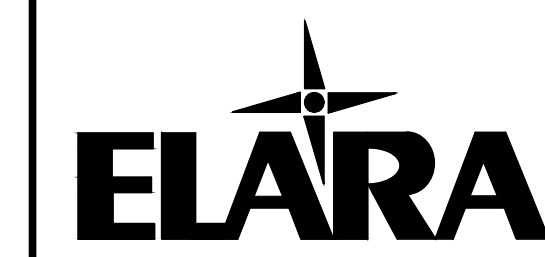


- ## KEYED MECHANICAL NEW WORK SHEET NOTES
1. INSTALL NEW FAN COIL UNIT ABOVE CEILING TO SERVE LOWER LEVEL ELEVATOR LOBBY. CONNECT TO EXISTING SUPPLY AND RETURN DUCTS AS WELL AS EXISTING DUCTWORK LEADING TO CONDENSING UNIT ON ROOF.
 2. TRASH CHUTE EXHAUST DUCT SHOWN FOR REFERENCE. DUCT TO BE CLEANED 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.



1 MECHANICAL NEW WORK PLAN - 400 LEVEL OVERALL

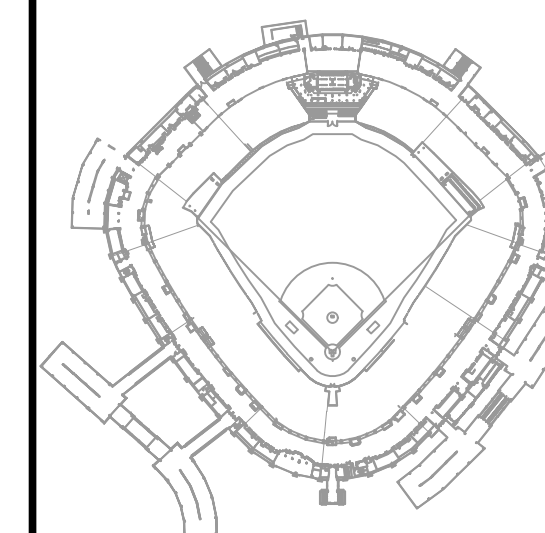
SCALE: 1/32" = 1'-0"



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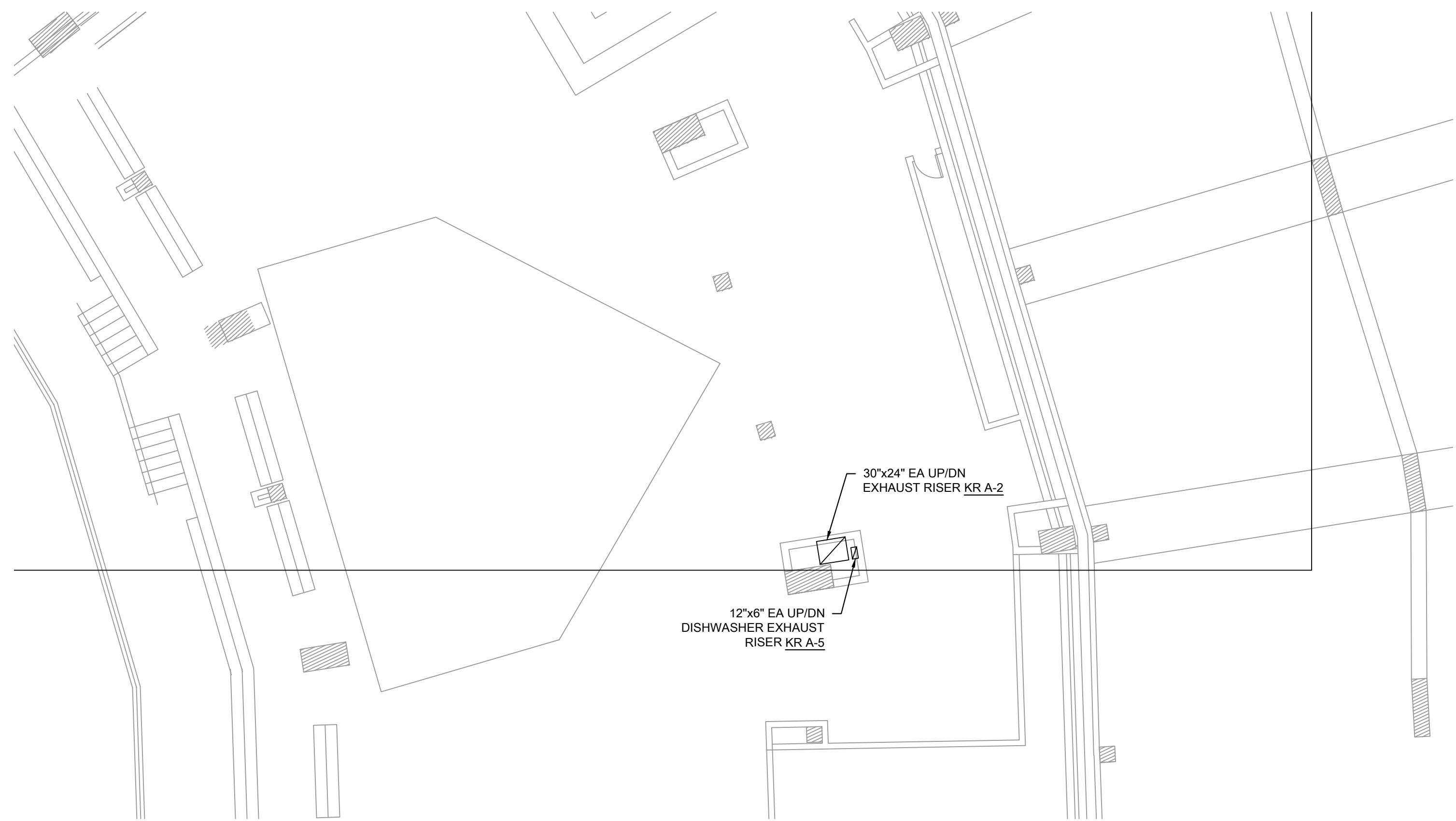
DRAWING TITLE:
MECHANICAL NEW WORK
PLANS - LEVEL 400 OVERALL

DESIGNED BY: DA
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PROJECT NO: 21276
SCALE: 1/32" = 1'-0"

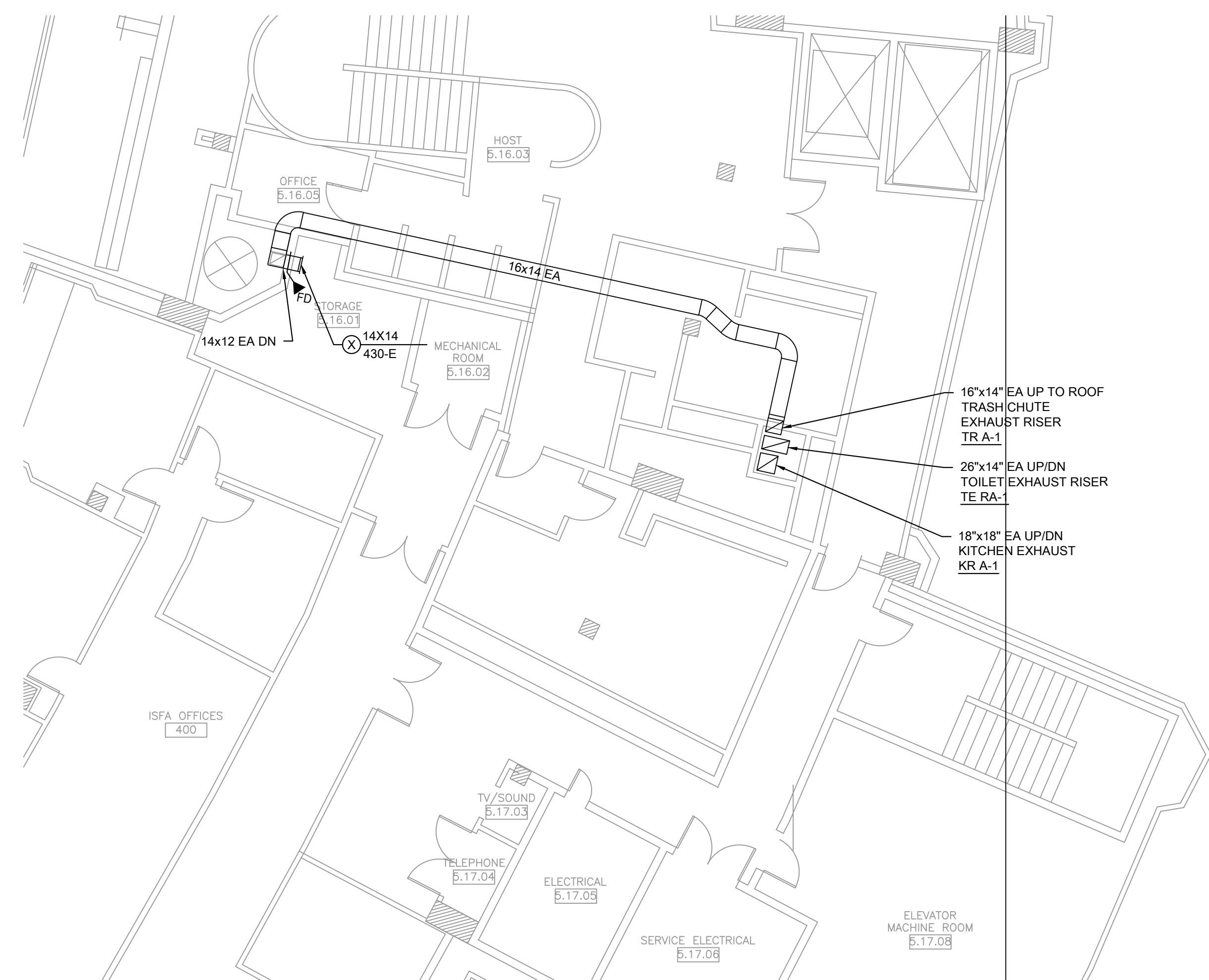
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M1.09



1 MECHANICAL NEW WORK PLAN - STADIUM CLUB DISHWASHER EXHAUST



2 MECHANICAL NEW WORK PLAN - TRASH CHUTE

KEYED MECHANICAL NEW WORK SHEET NOTES

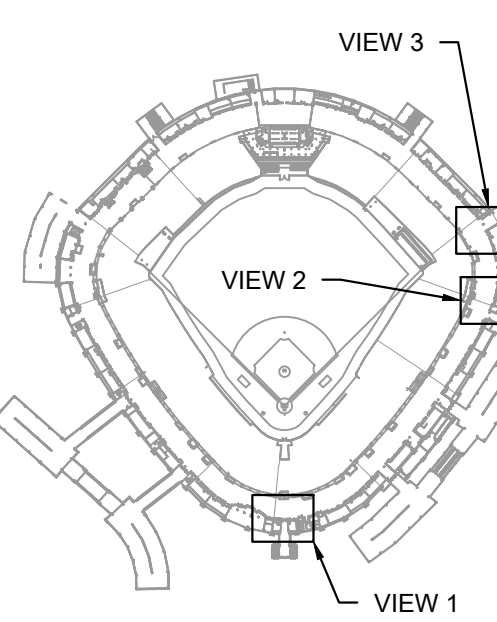
1. DISHWASHER EXHAUST DUCT SHOWN FOR REFERENCE ONLY.
2. CLEAN EXHAUST DUCT AND REBALANCE EXISTING GRILLE TO AIRFLOW SHOWN. EXERCISE EXISTING FIRE DAMPER AND REPLACE FUSIBLE LINK.



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DRAWING TITLE:

MECHANICAL NEW WORK
PLANS - LEVEL 400 ENLARGED
PLANS

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PROJECT NO: 21276

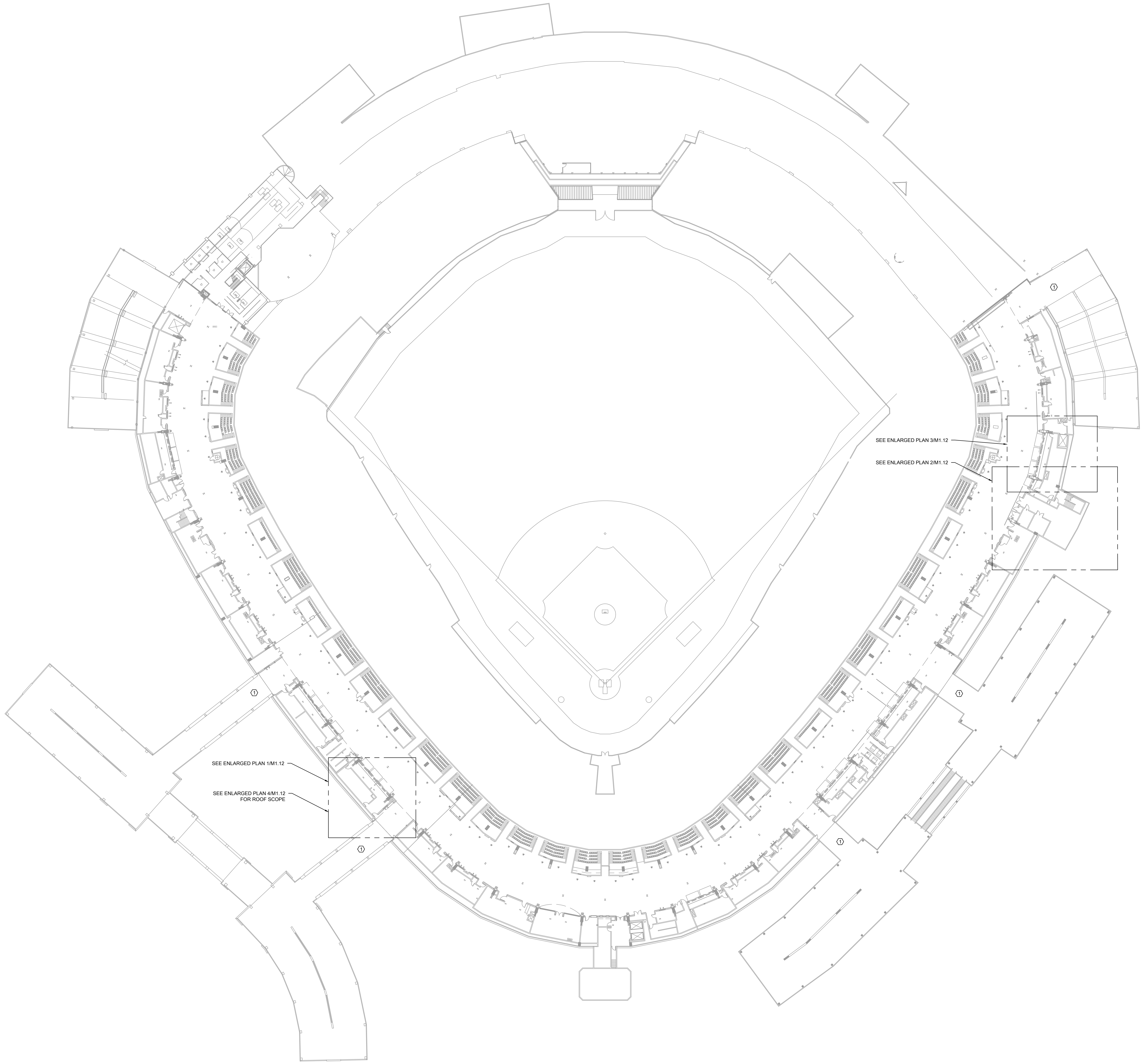
SCALE: 1/8" = 1'-0"

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M1.10



KEYED MECHANICAL NEW WORK SHEET NOTES ④

1. REMOVAL OF DEMOLISHED EQUIPMENT AND INGRESS OF NEW EQUIPMENT SHOULD BE COORDINATED WITH ISFA AND CHICAGO WHITE SOX. IT IS RECOMMENDED TO UTILIZE THE EXTERIOR RAMPS FOR DELIVERING EQUIPMENT TO THE 300 AND 500 LEVELS.

1

MECHANICAL NEW WORK PLAN - 500 LEVEL OVERALL

SCALE: 1/32" = 1'-0"

0 10 20 30 40

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MECHANICAL NEW WORK
PLANS - LEVEL 500 OVERALL

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PROJECT NO: 21276

SCALE: 1/32" = 1'-0"

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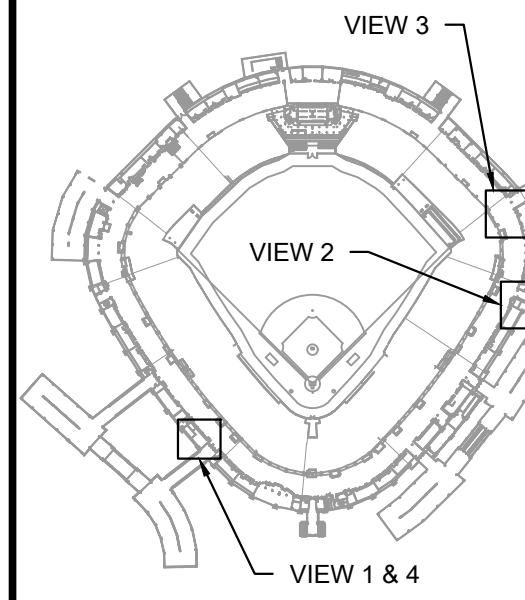
M1.11



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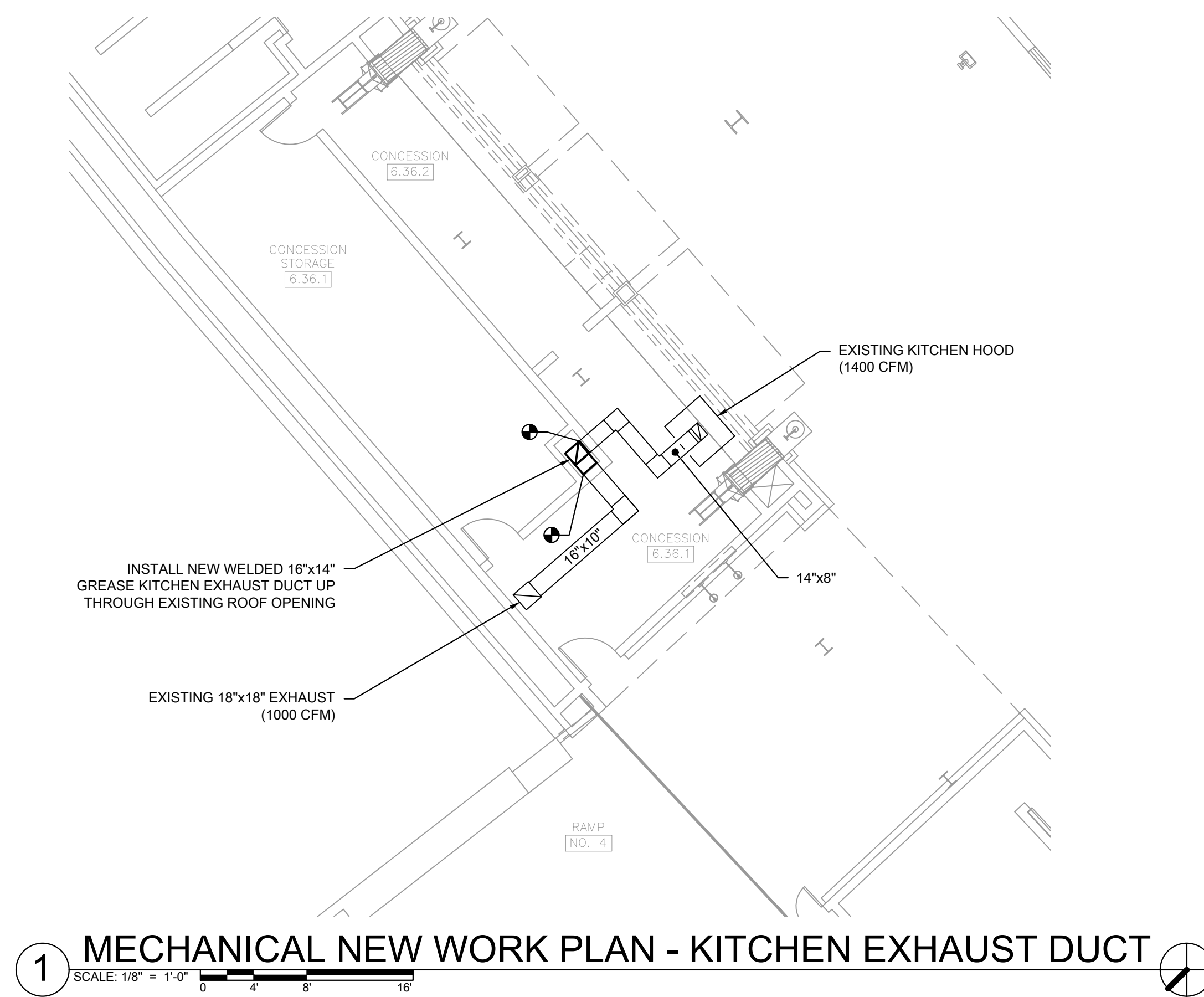
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DRAWING TITLE:
MECHANICAL NEW WORK
PLAN - LEVEL 500 ENLARGED
PLANS

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SCALE:	1/8" = 1'-0"

SHEET NO.

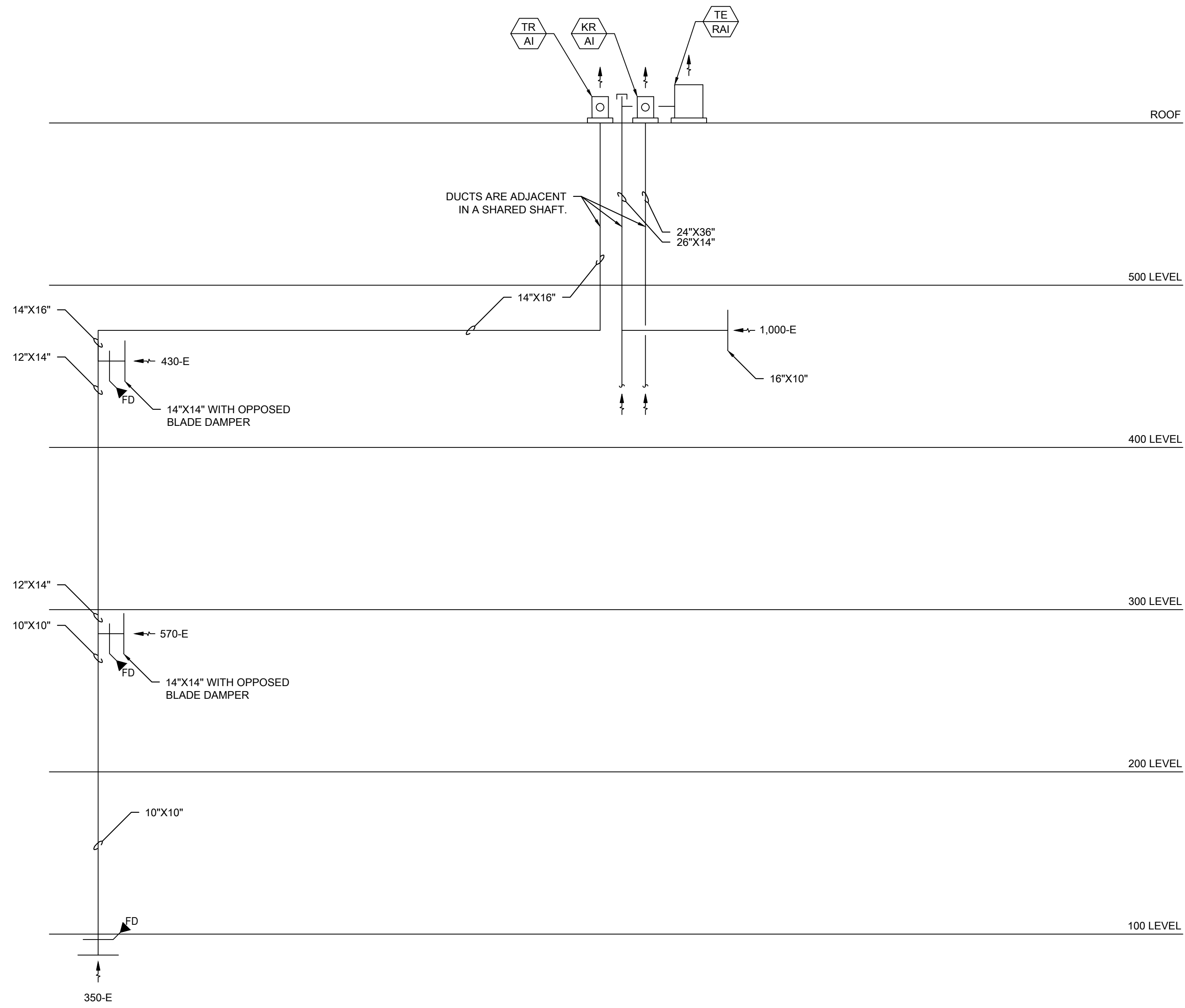
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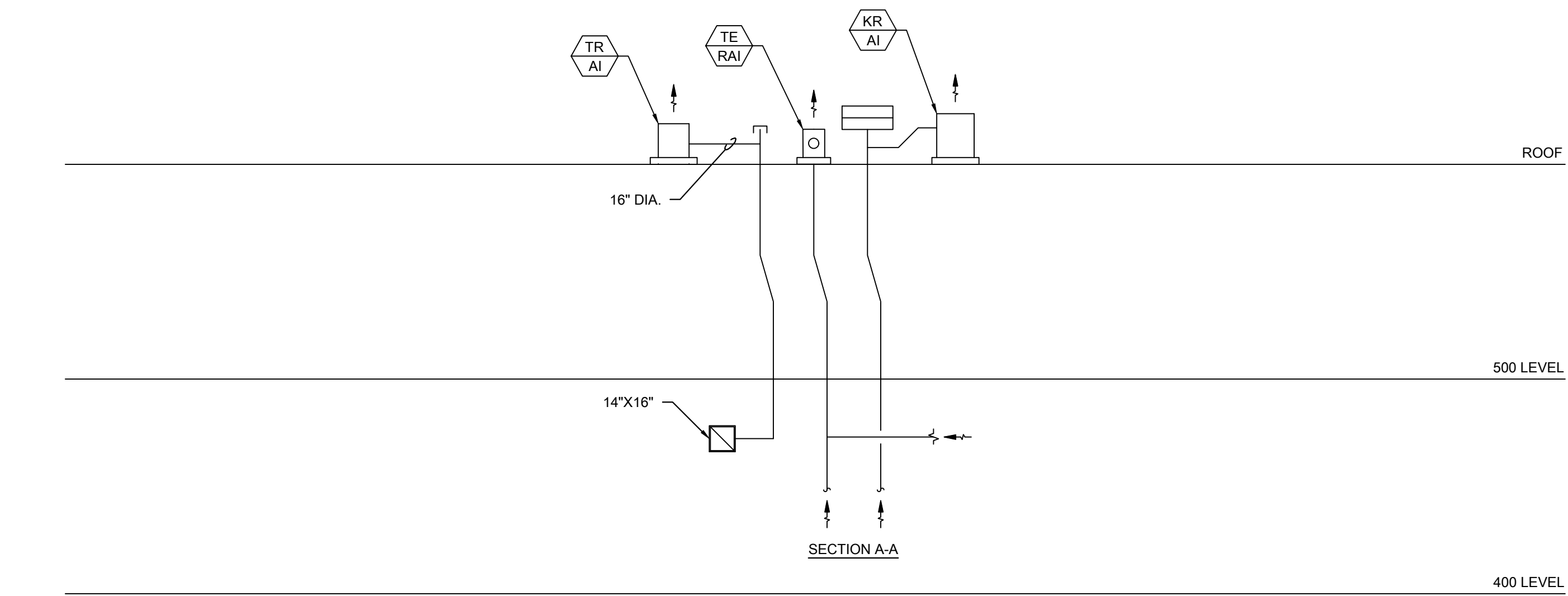
KEYED MECHANICAL NEW WORK SHEET NOTES

- VFD FOR NEW 1-1/2 HP KITCHEN EXHAUST FAN KEF-2. COORDINATE FINAL LOCATION WITH SPACE EQUIPMENT LAYOUT.
- CLEAN EXISTING TO REMAIN TYPE 1 HOOD DUCTWORK THOROUGHLY. PROVIDE NEW CLEANOUT AND ACCESS IF NOT CURRENTLY PRESENT.
- 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.
- 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.
- SERVICE ELEVATOR SUITABLE FOR SMALL EQUIPMENT INGRESS. FEATURES ACCESS ON ALL FLOORS. COORDINATE USE AND ANY REQUIRED LOCKOUTS WITH ISFA AND CHICAGO WHITE SOX.
- 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.

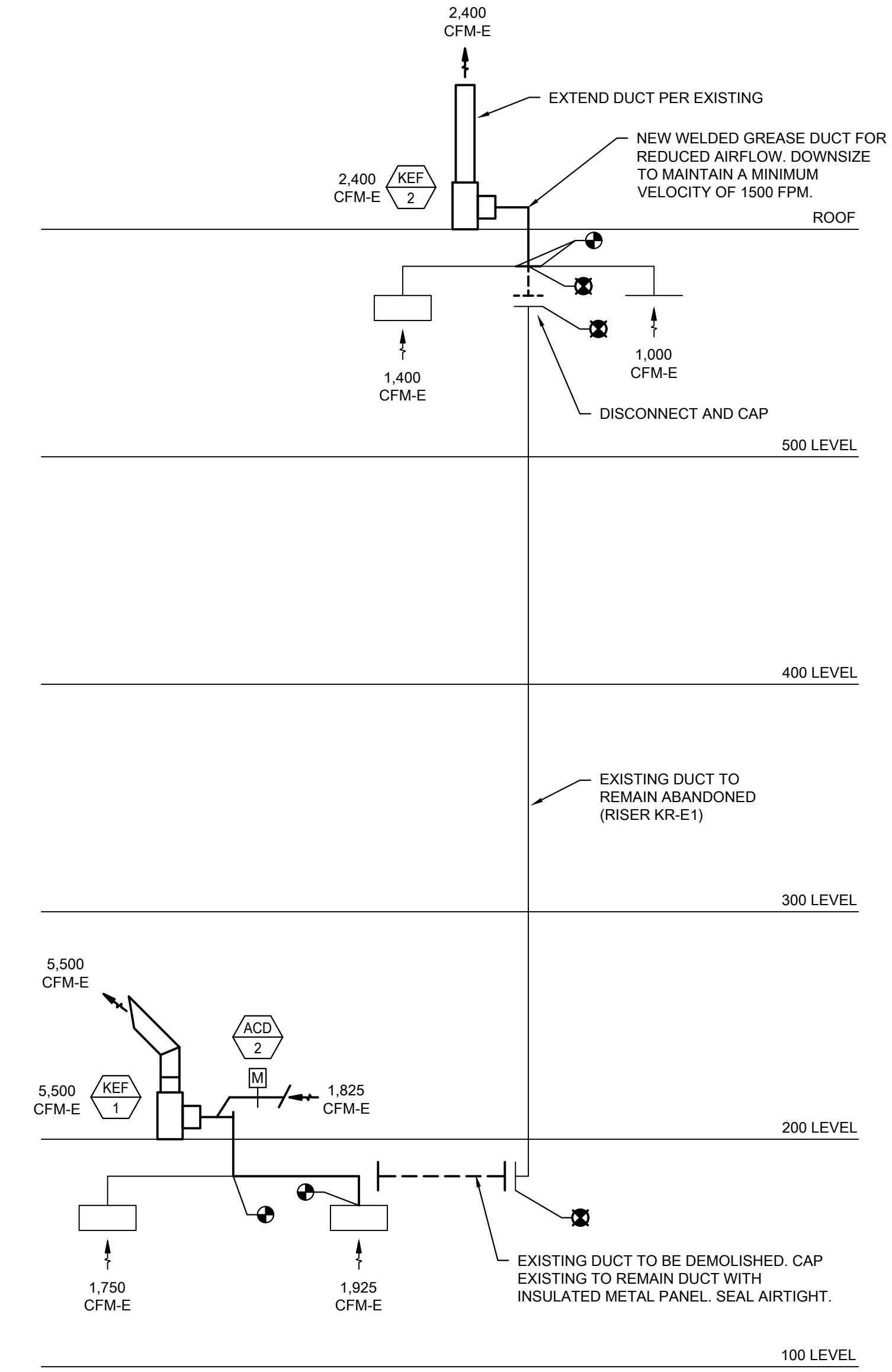
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1 TR-AI RISER DIAGRAM
SCALE: N.T.S.



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



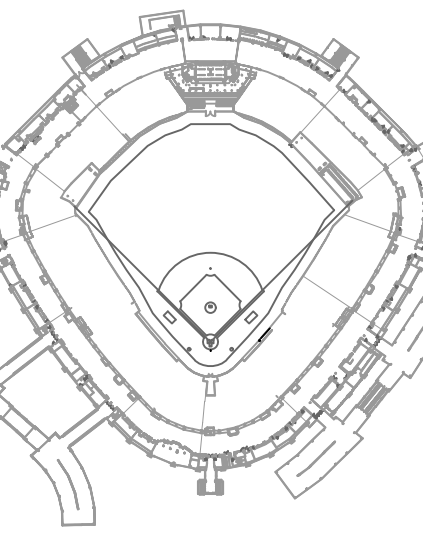
1 KITCHEN EXHAUST SCHEMATIC DIAGRAM
SCALE: N.T.S.



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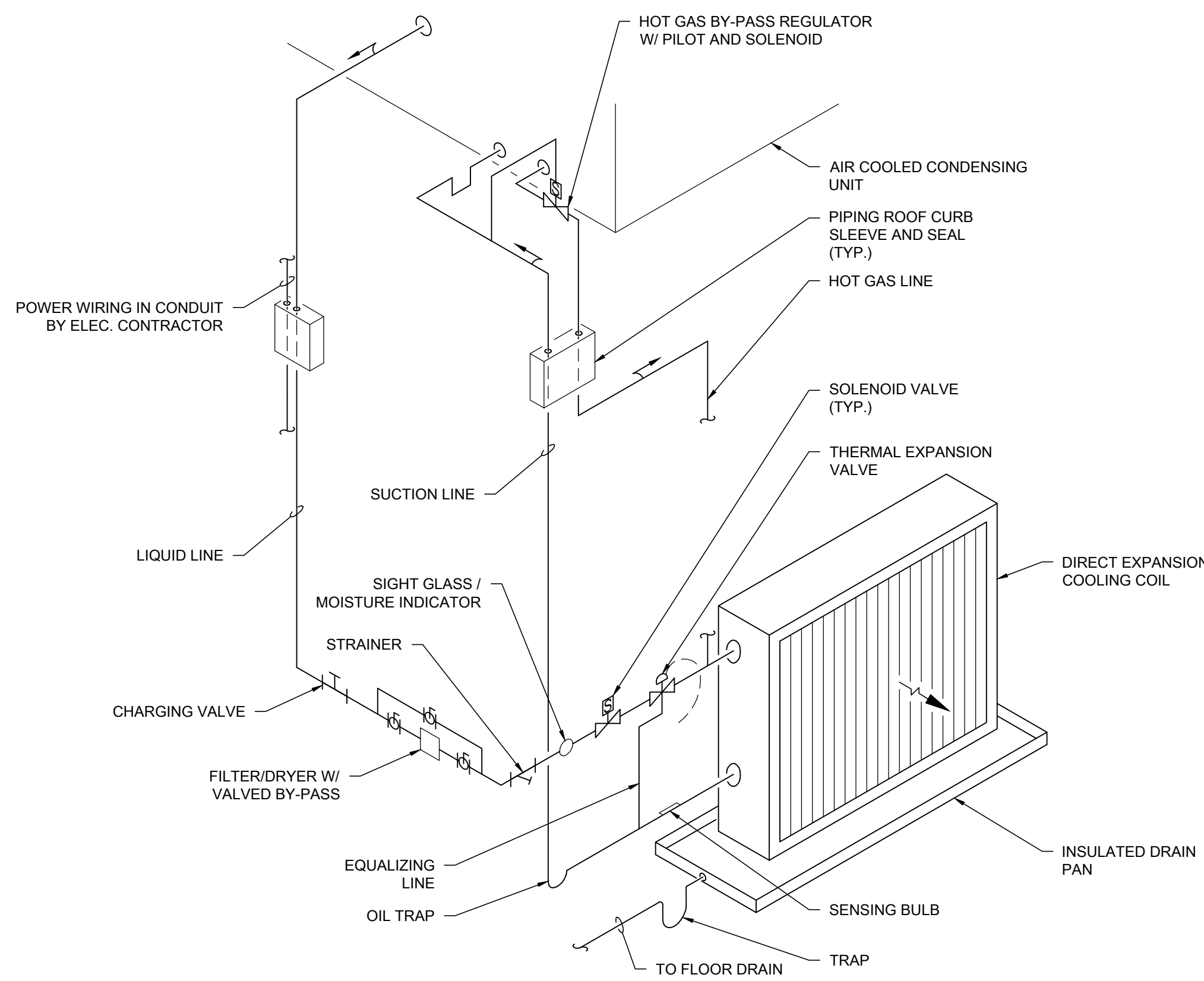
DRAWING TITLE:
MECHANICAL SCHEMATICS

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

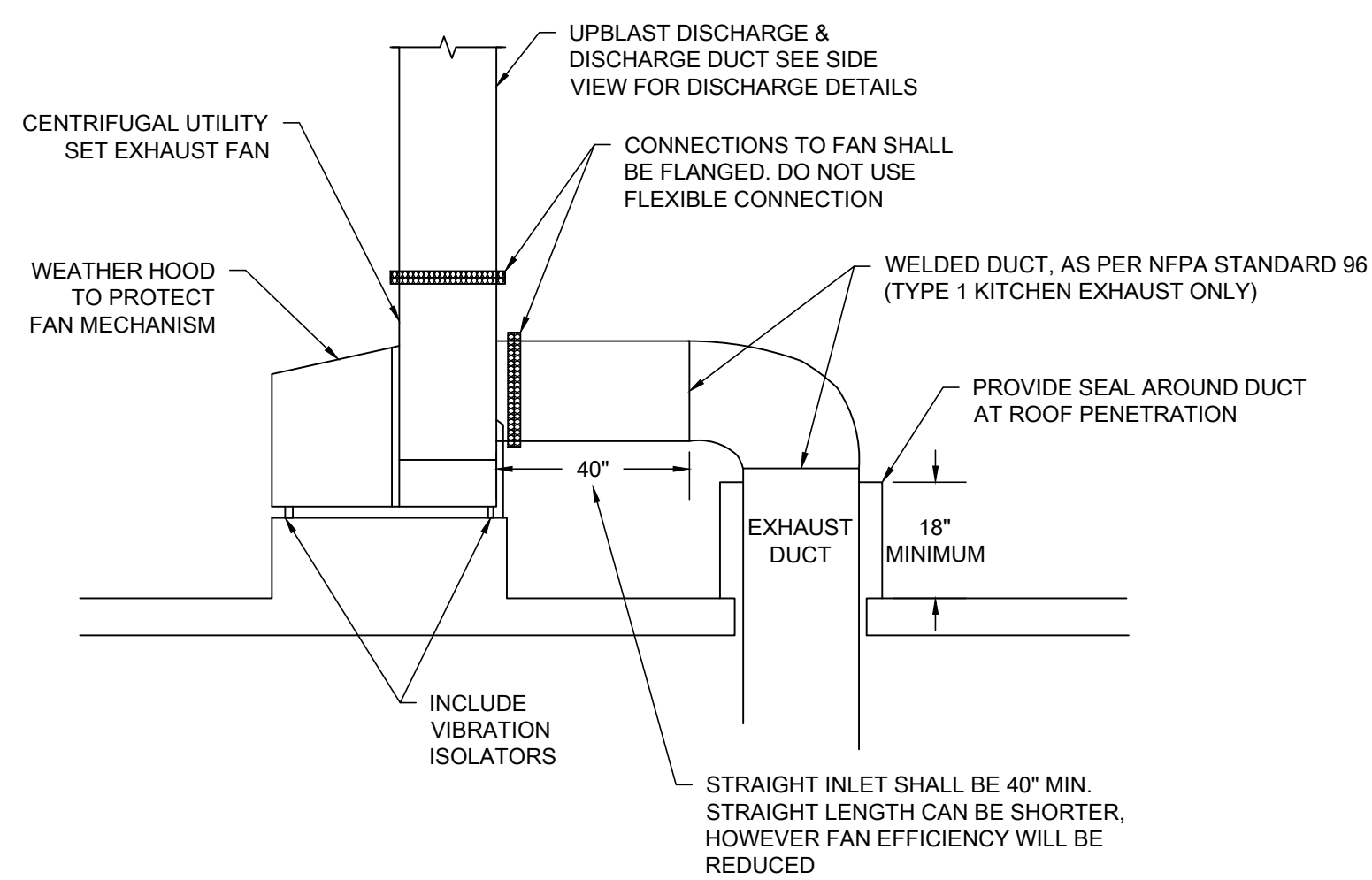
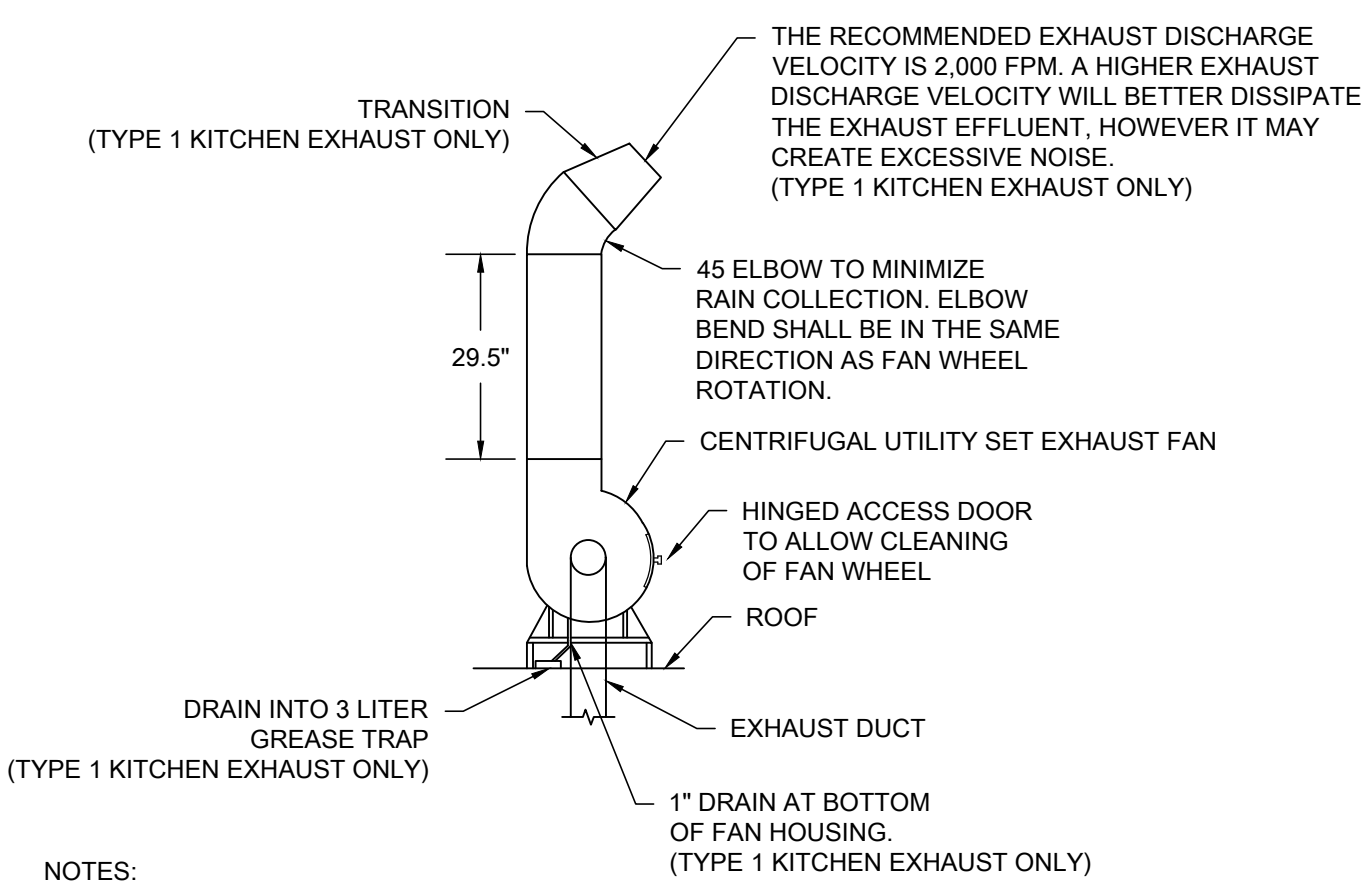
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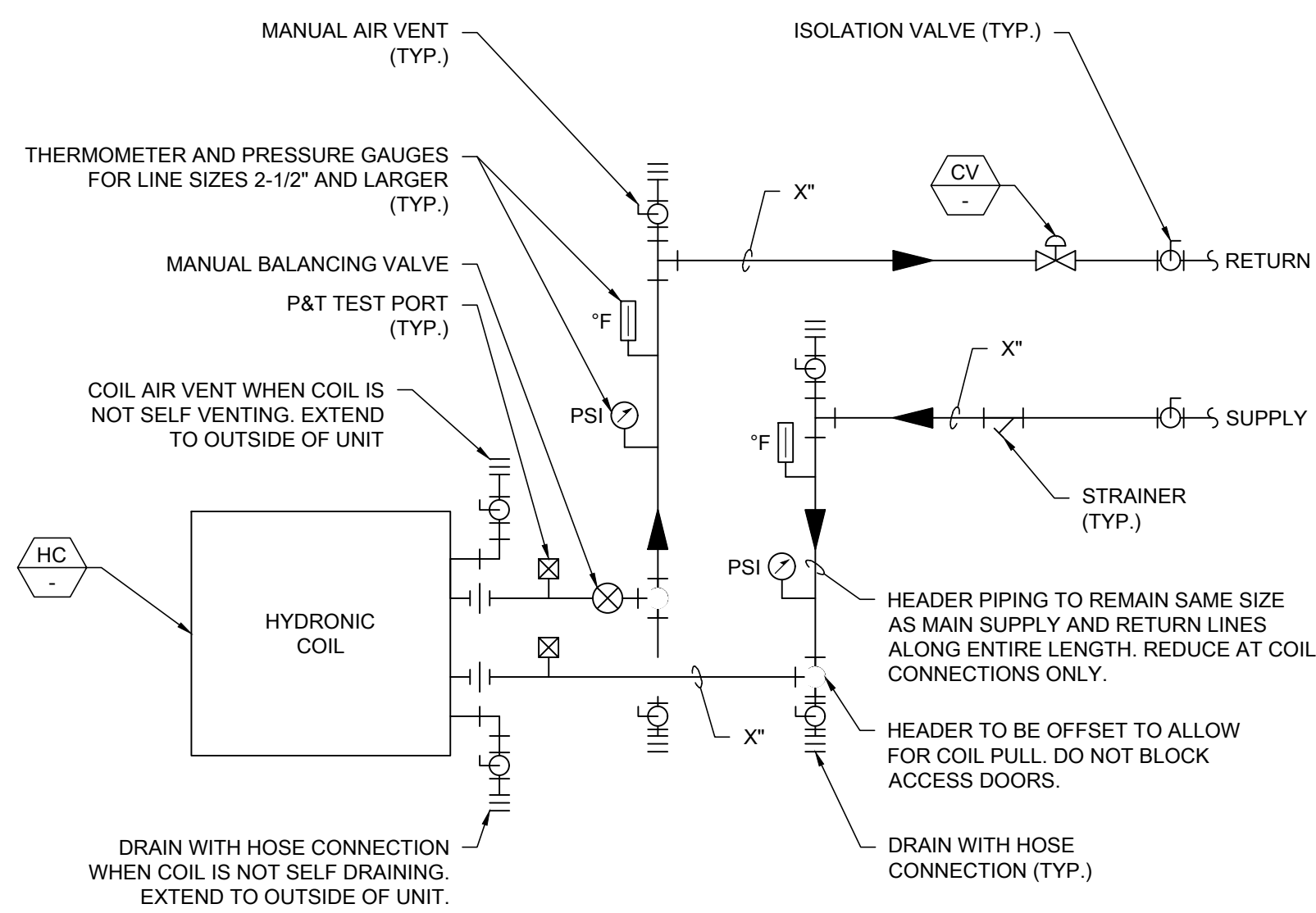
M2.01



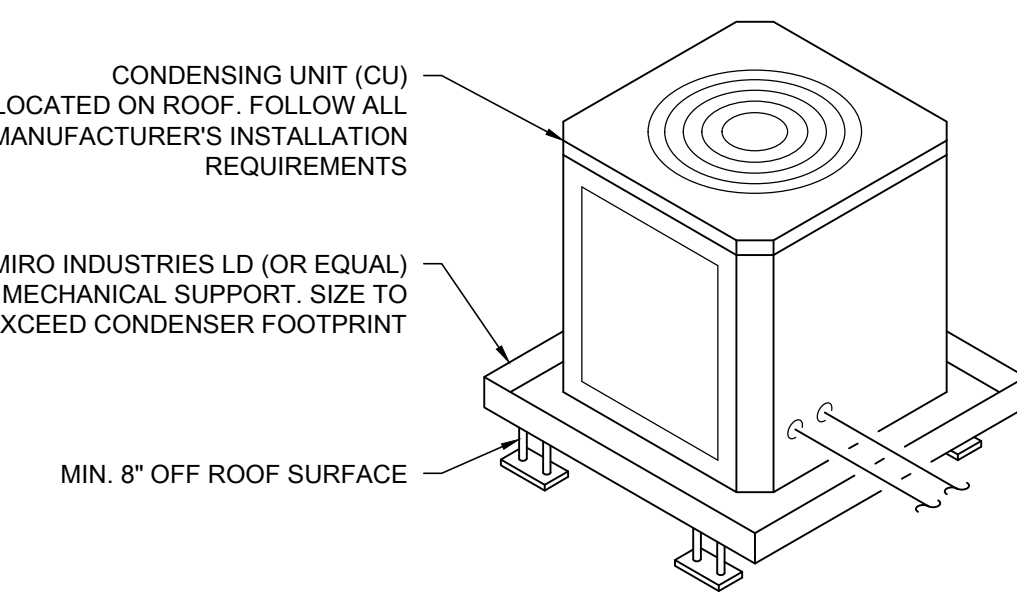
1 DX REFRIGERANT COOLING COIL PIPING DETAIL



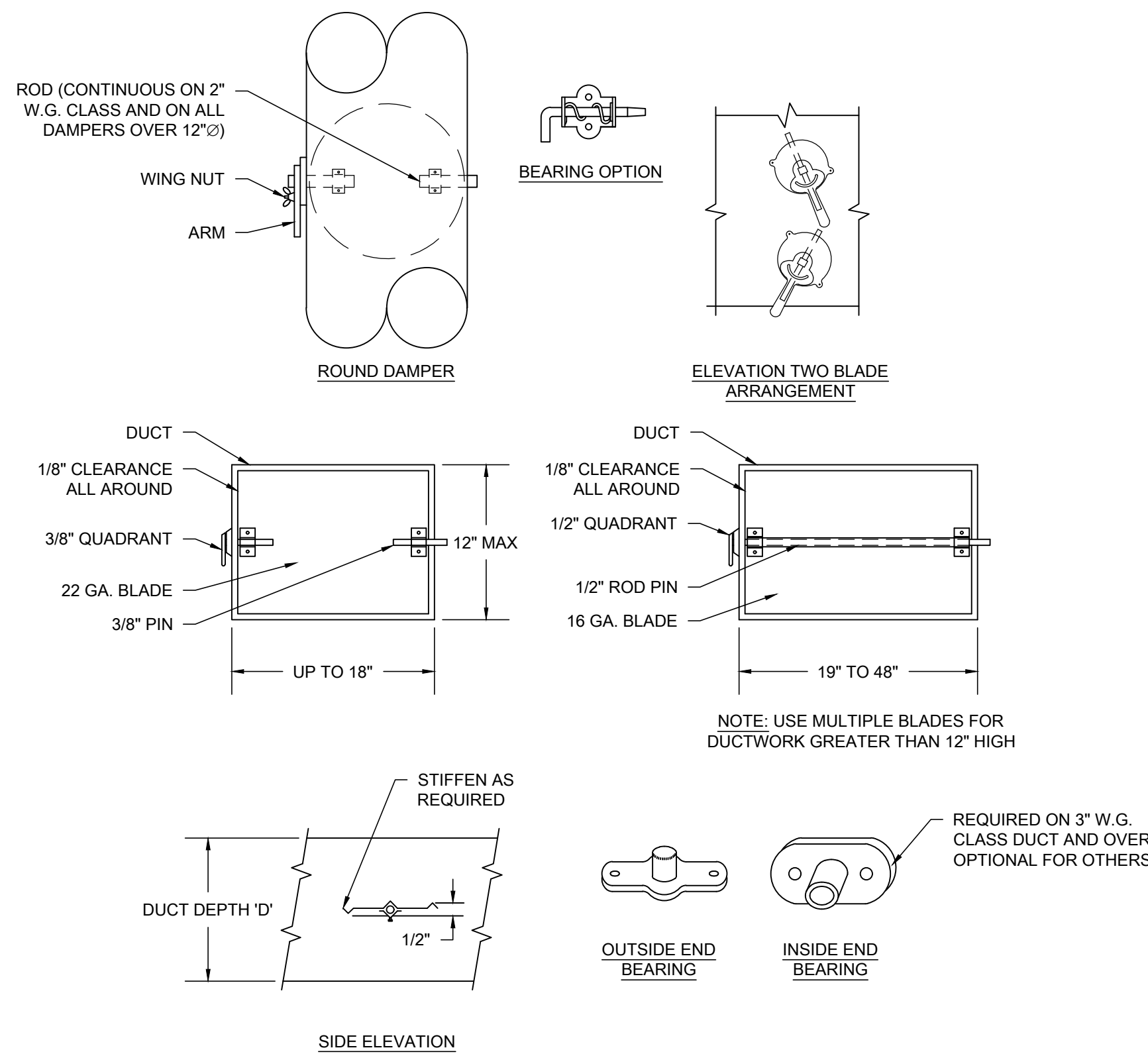
7 UTILITY SET FAN



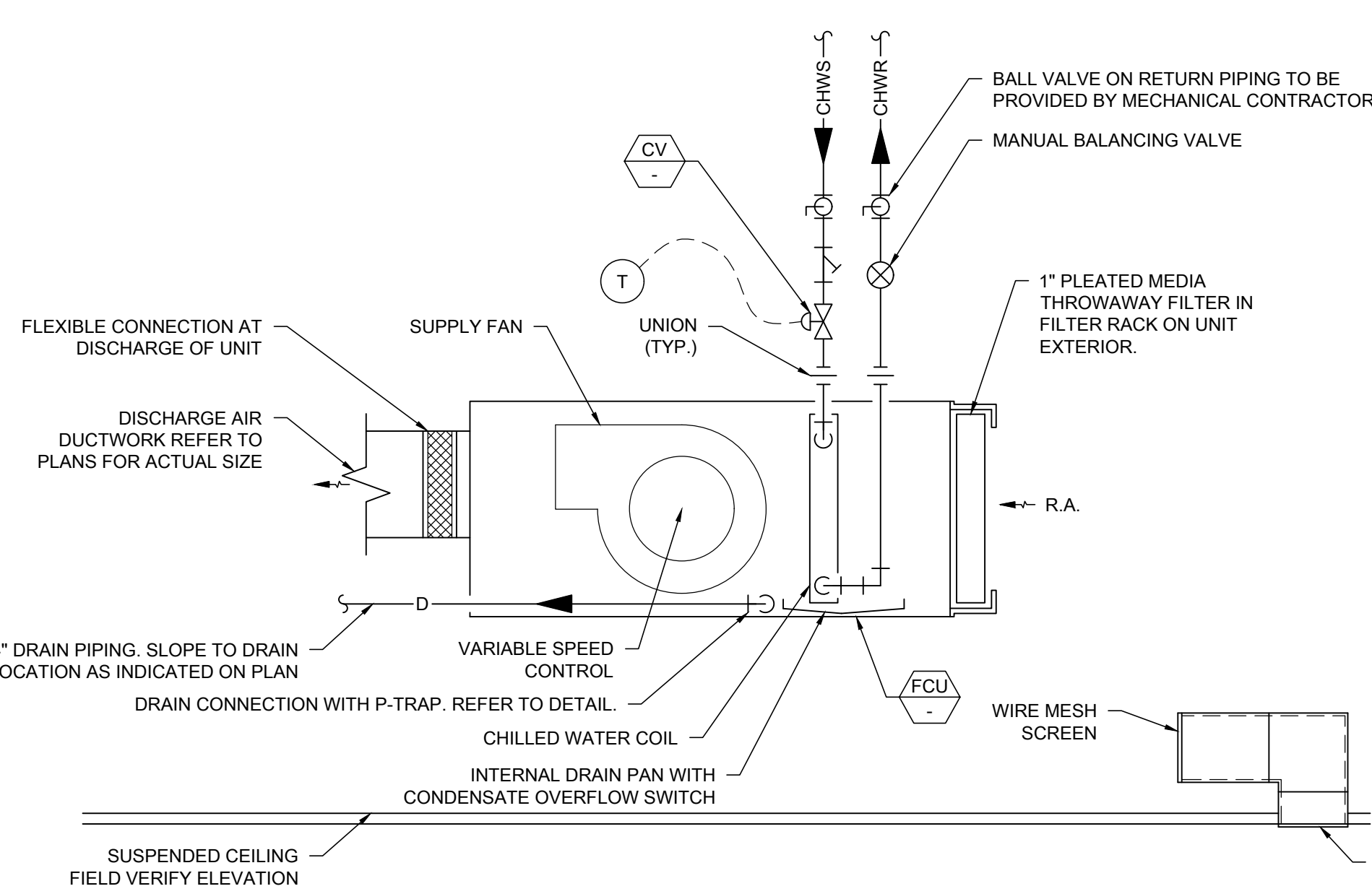
10 PIPING AT HYDRONIC COIL (2-WAY CV)



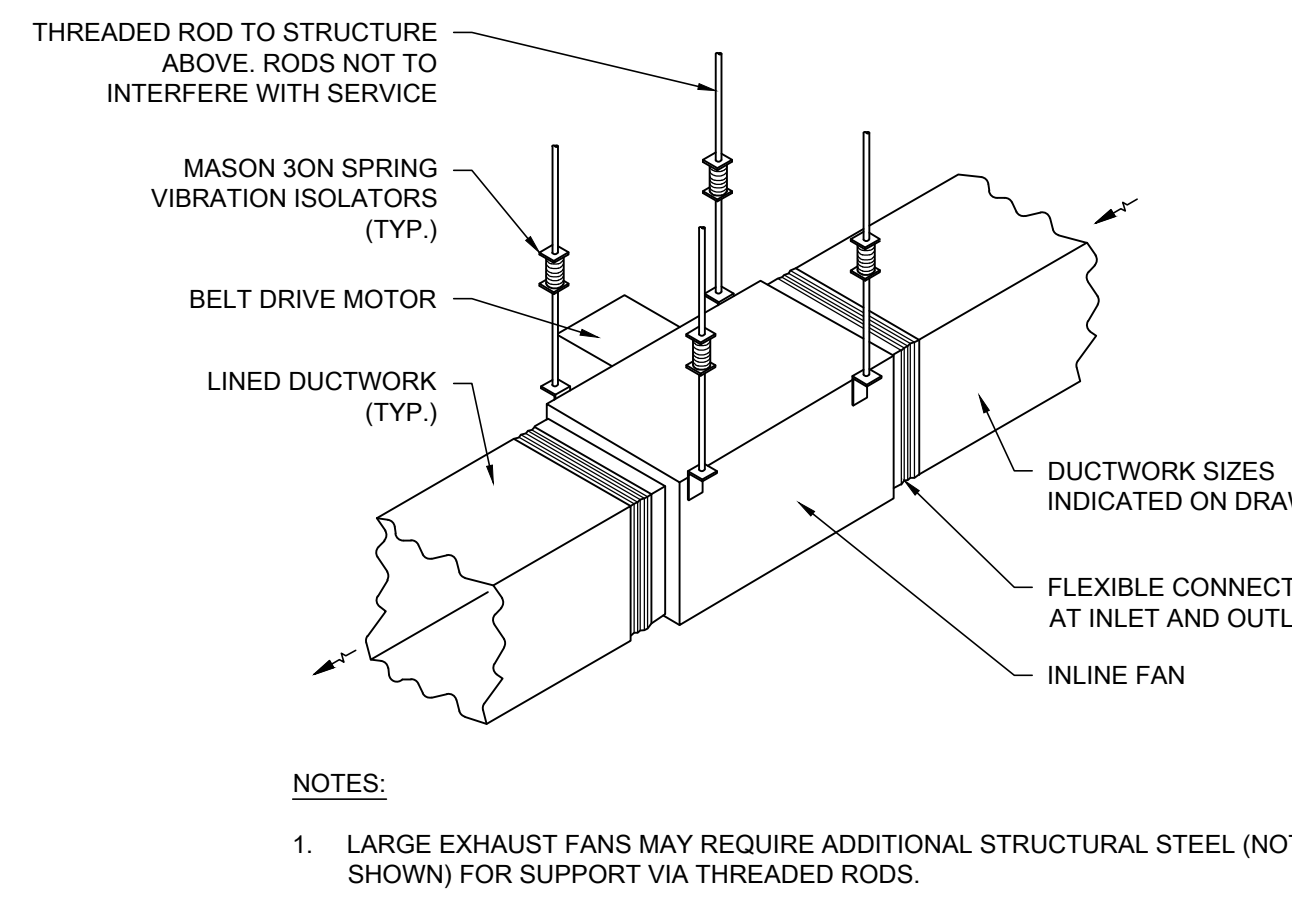
2 CONDENSING UNIT DETAIL



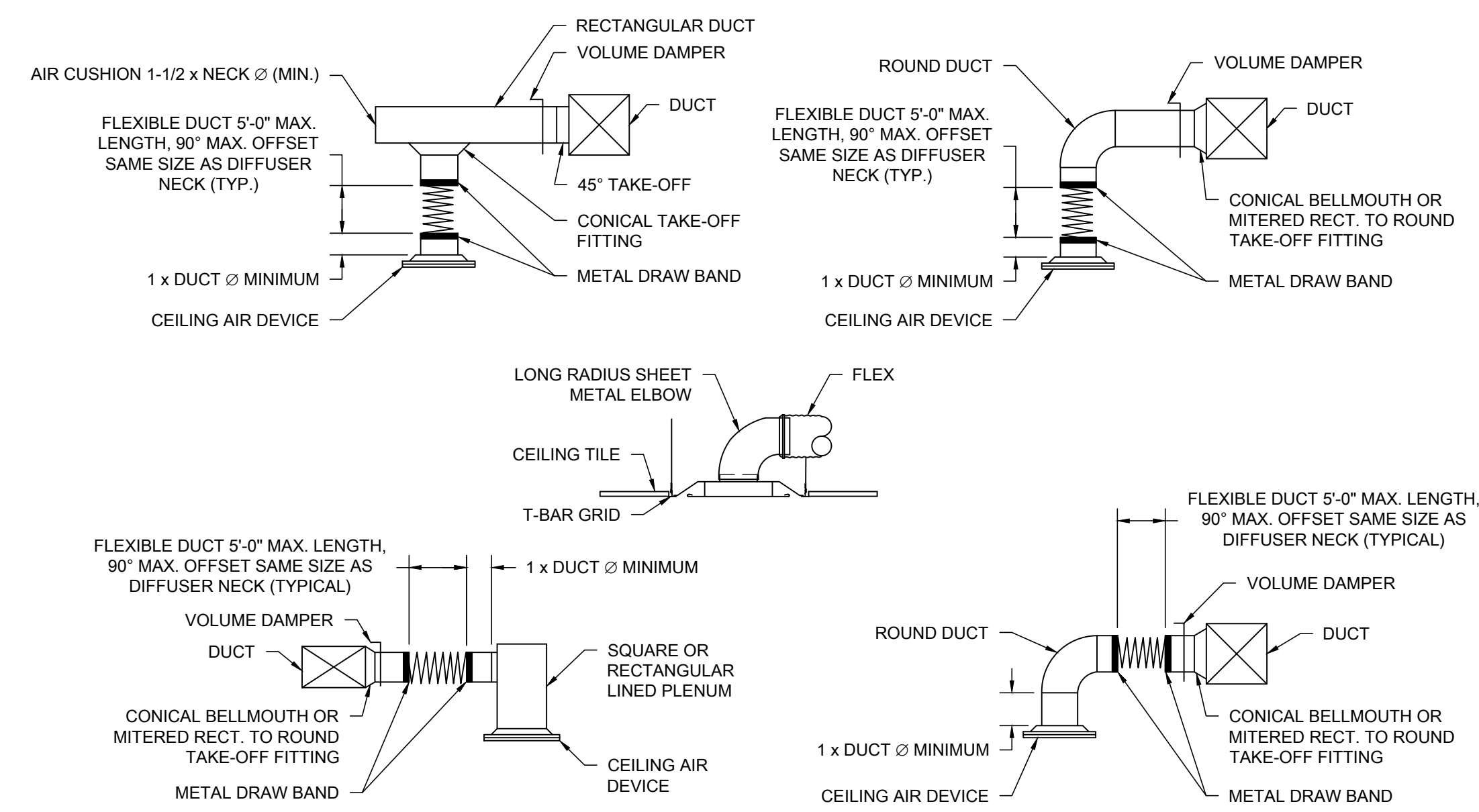
5 SINGLE BLADE VOLUME DAMPER DETAIL



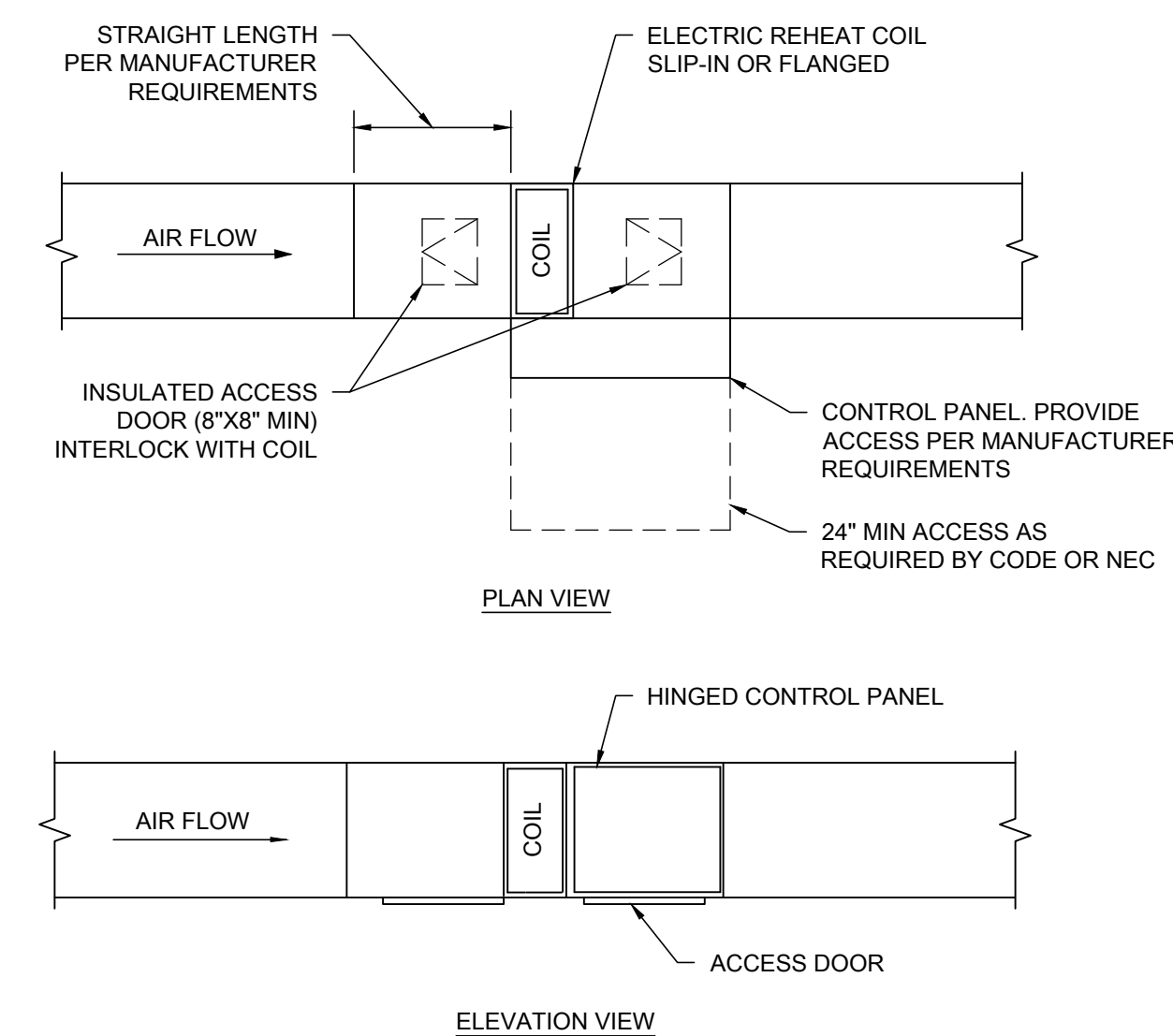
8 HORIZONTAL 2-PIPE FAN COIL (2-WAY CV)



3 INLINE EXHAUST FAN DETAIL (SQUARE)



6 DIFFUSER CONNECTION DETAIL



9 TYPICAL DUCT CONNECTION TO ELECTRIC REHEAT COIL

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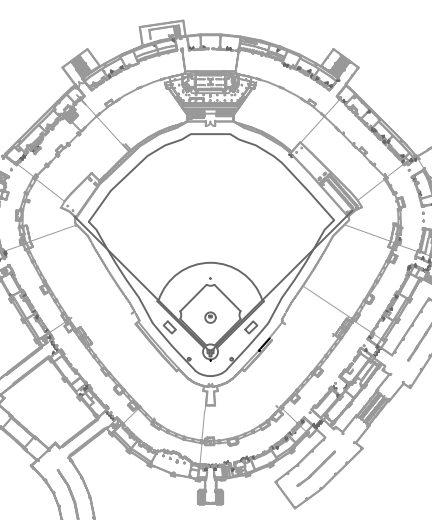
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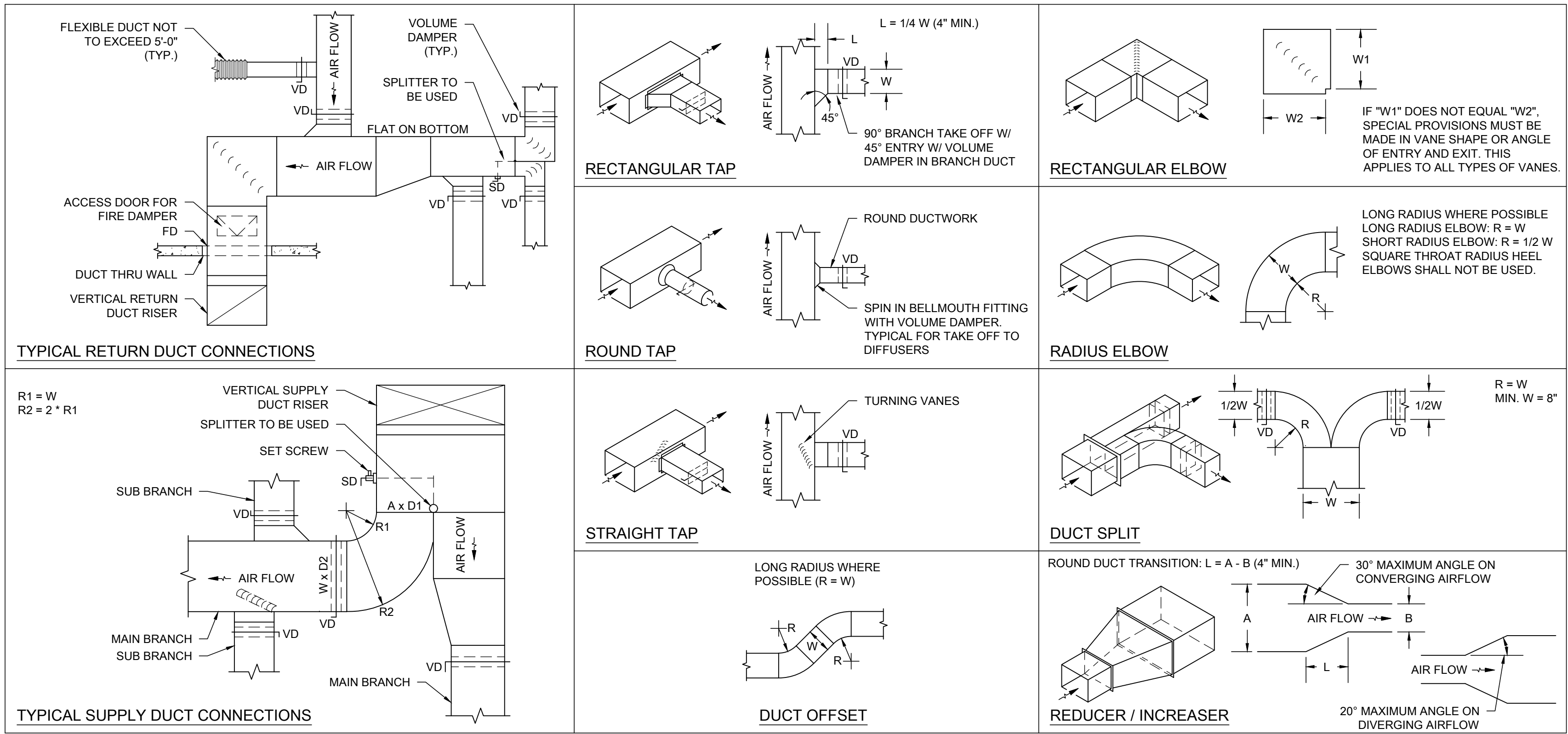
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DRAWING TITLE:
MECHANICAL DETAILS

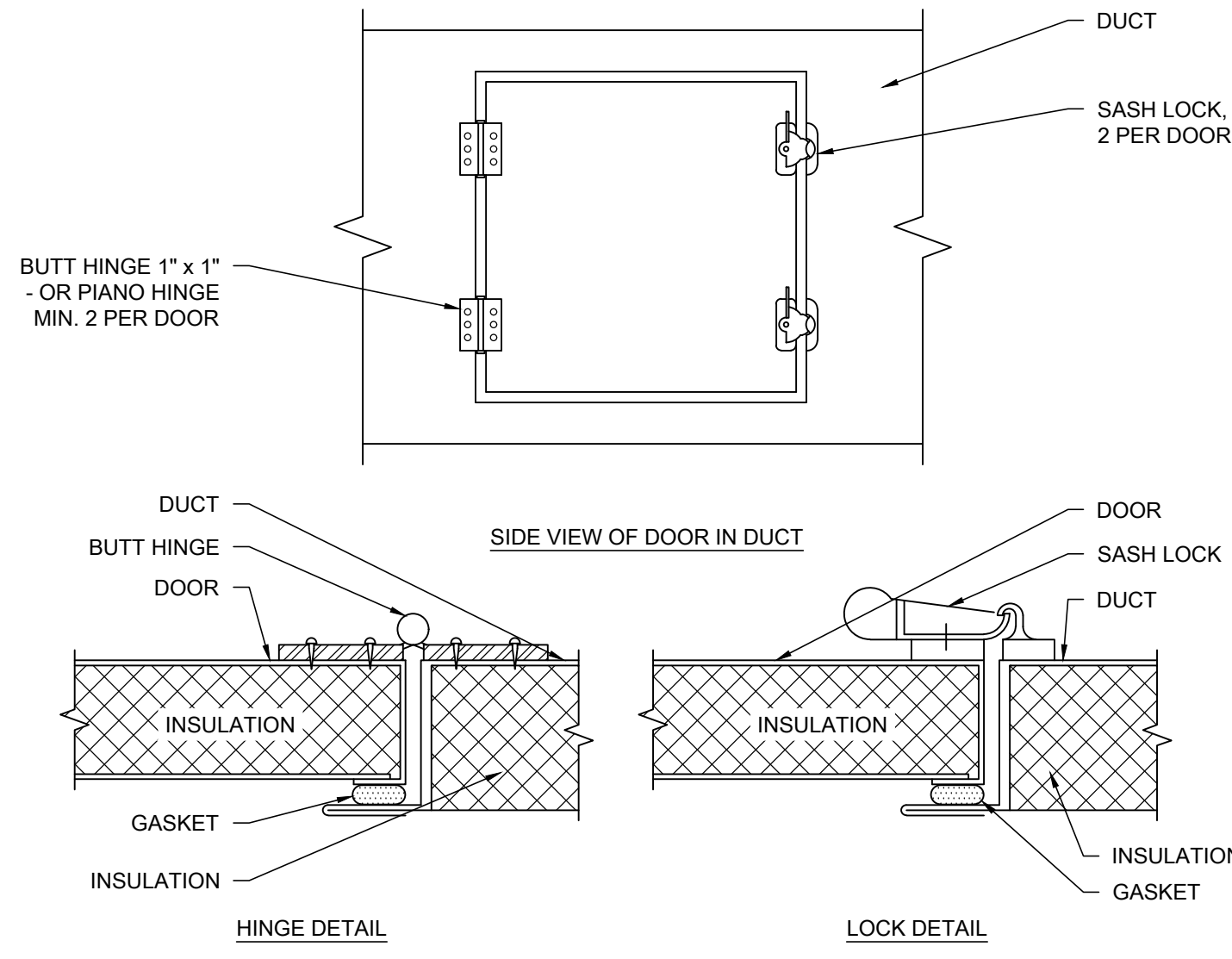
DESIGNED BY: DA
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PROJECT NO: 21276
SCALE: NO SCALE
SHEET NO.

M3.01



1 TYPICAL DUCT CONSTRUCTION DETAILS

SCALE: NO SCALE



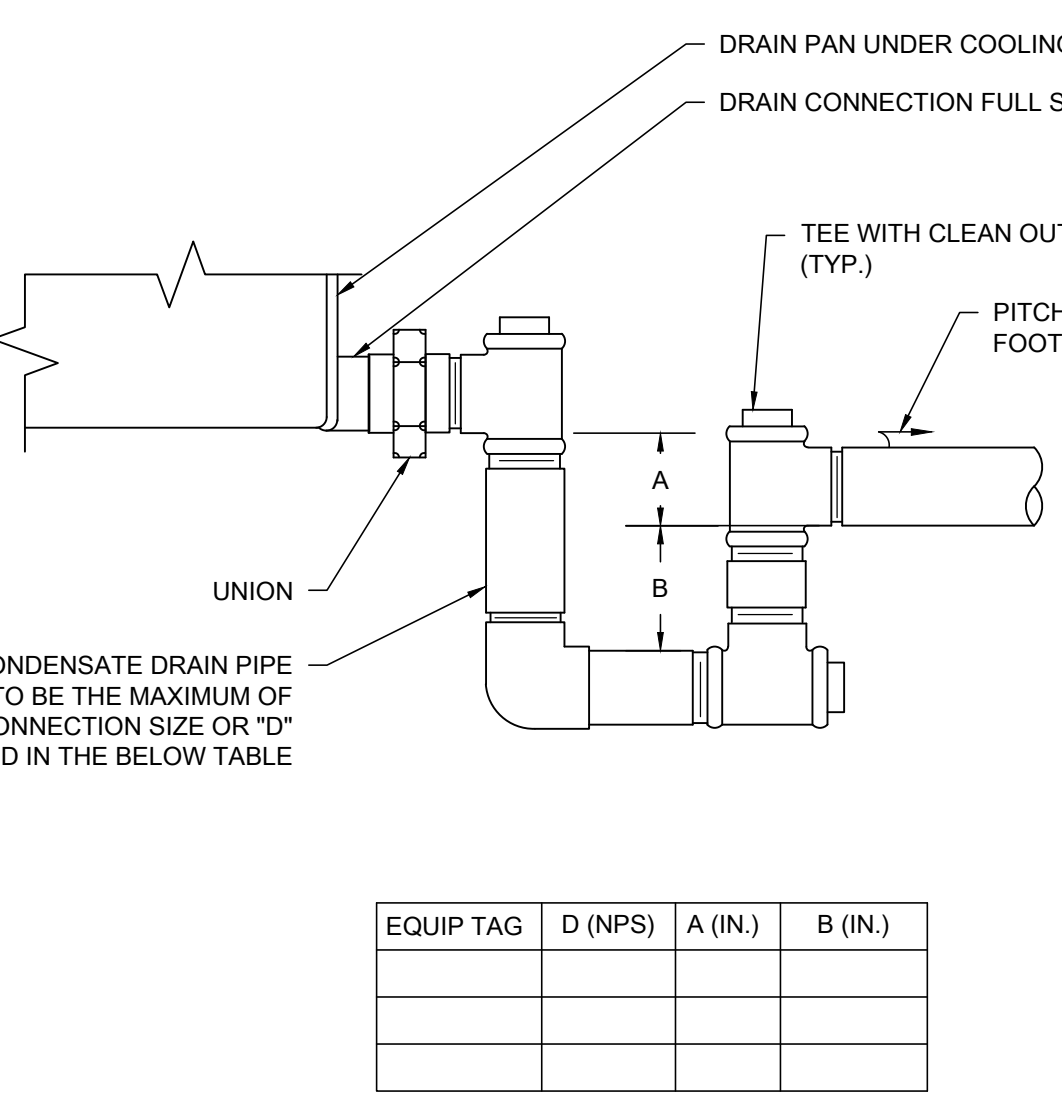
STATIC IN DUCT	DOOR SIZE	NO. OF HINGES	NO. OF LOCKS	METAL GAUGE		
				FRAME	DOOR	BACK
2" W.G. STATIC AND LESS	12" x 12"	2	2-S	24	26	26
	16" x 18"	2	2-S	22	24	26
	24" x 24"	3	2-S	22	22	26
3" W.G. STATIC	12" x 12"	2	2-S	24	26	26
	16" x 18"	2	2-S, 1-T, 1-B	22	24	26
	24" x 24"	3	2-S, 1-T, 1-B	22	22	26
4" W.G. STATIC TO 10" W.G.	12" x 12"	2	2-S, 1-T, 1-B	24	26	26
	16" x 18"	3	2-S, 1-T, 1-B	22	24	26
	24" x 24"	3	2-S, 1-T, 1-B	22	22	26

S = SIDE OPPOSITE HINGES, T = TOP, B = BOTTOM

- NOTES:
- PROVIDE CAM LOCKS IN LIEU OF HINGES IN AREAS WHERE OBSTRUCTIONS WILL NOT PERMIT FULL SWING OPENING OF DOOR.
 - DOOR TO BE SQUARE IN SHAPE, 2" SMALLER THAN DUCT DIMENSION WITH A MINIMUM SIZE OF 6" x 8" AND A MAXIMUM SIZE OF 24" x 24".
 - TYPICAL LOCATIONS FOR ACCESS DOORS: FIRE DAMPERS, AUTO DAMPERS, REHEAT COILS, SMOKE DAMPERS, & DEVICES MOUNTED INSIDE DUCT.

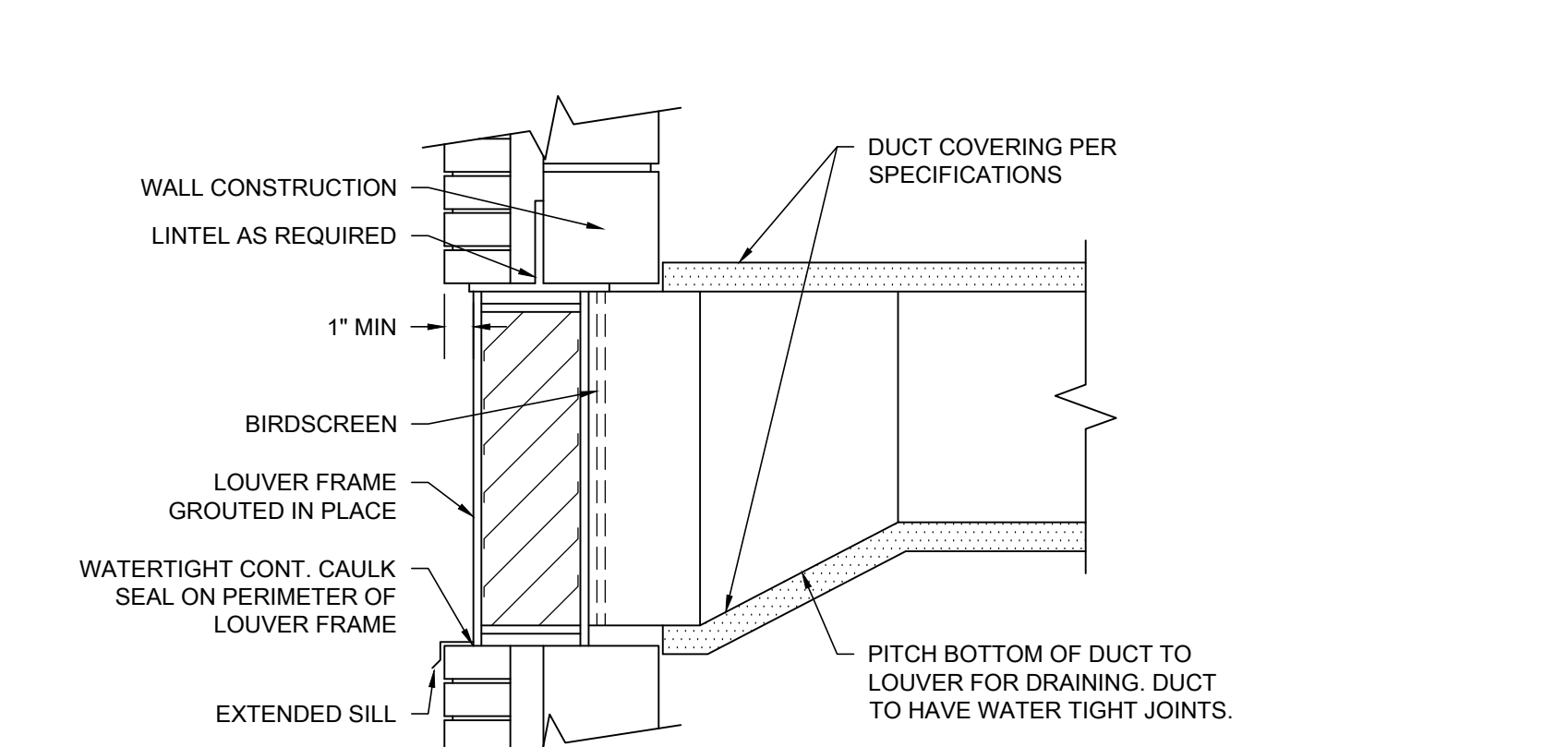
2 TYPICAL DUCT ACCESS DOOR DETAIL

SCALE: NO SCALE



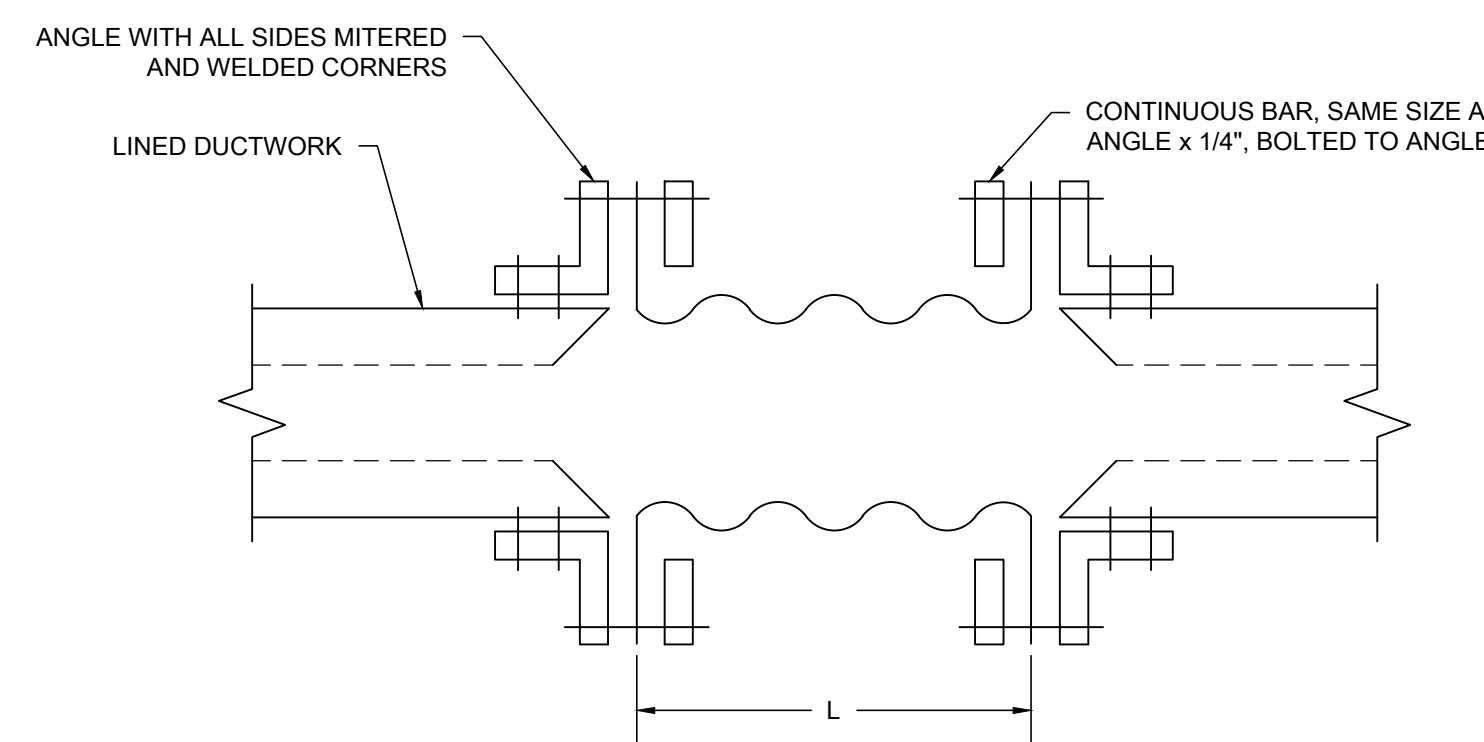
8 COOLING COIL CONDENSATE TRAP DETAIL

SCALE: NO SCALE



3 DUCT CONNECTION TO STANDARD WALL LOUVER

SCALE: NO SCALE

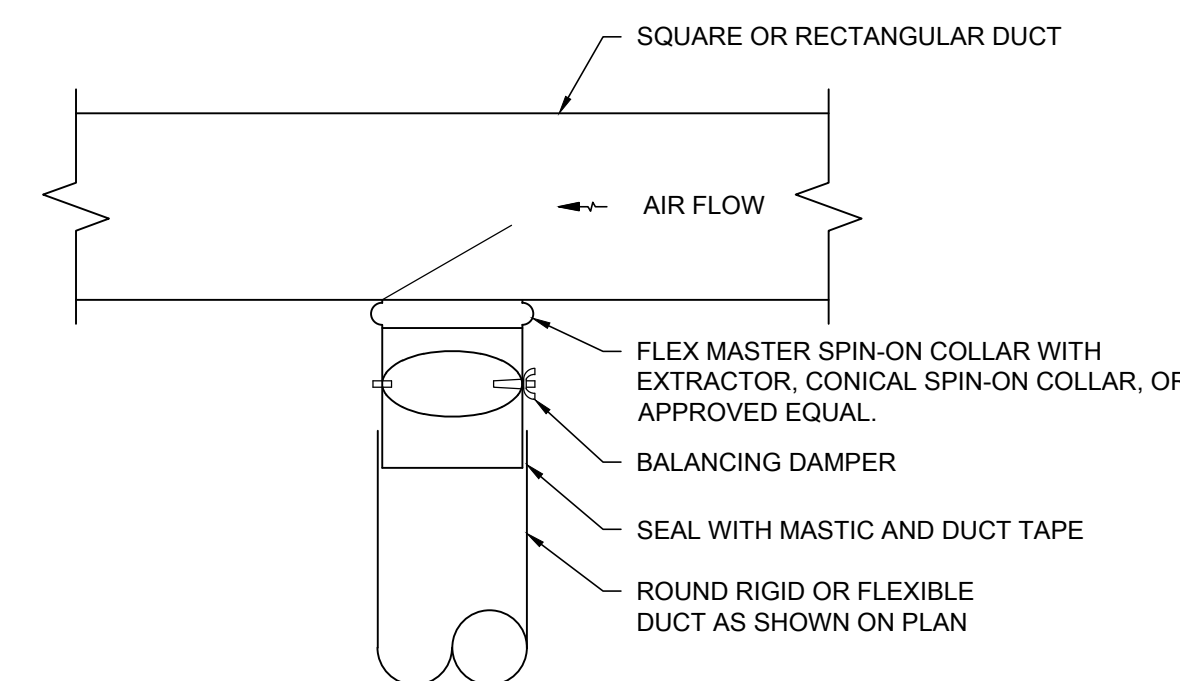


INSTALLATION REQUIREMENTS			
S.P. OF FAN	MIN. SLACK	MIN. "L"	
UP TO 2"	1-1/4"	4"	
2-1/8" TO 4"	2"	6"	

NOTE:
PROVIDE FLEXIBLE CONNECTION TO ISOLATE ALL DUCTS FROM ALL FANS AND FAN ENCLOSURES TO PREVENT TRANSMISSION OF VIBRATION THROUGH DUCTWORK AND STRUCTURE. FLEXIBLE DUCTS SHALL BE LESS THAN 5'-0" LONG.

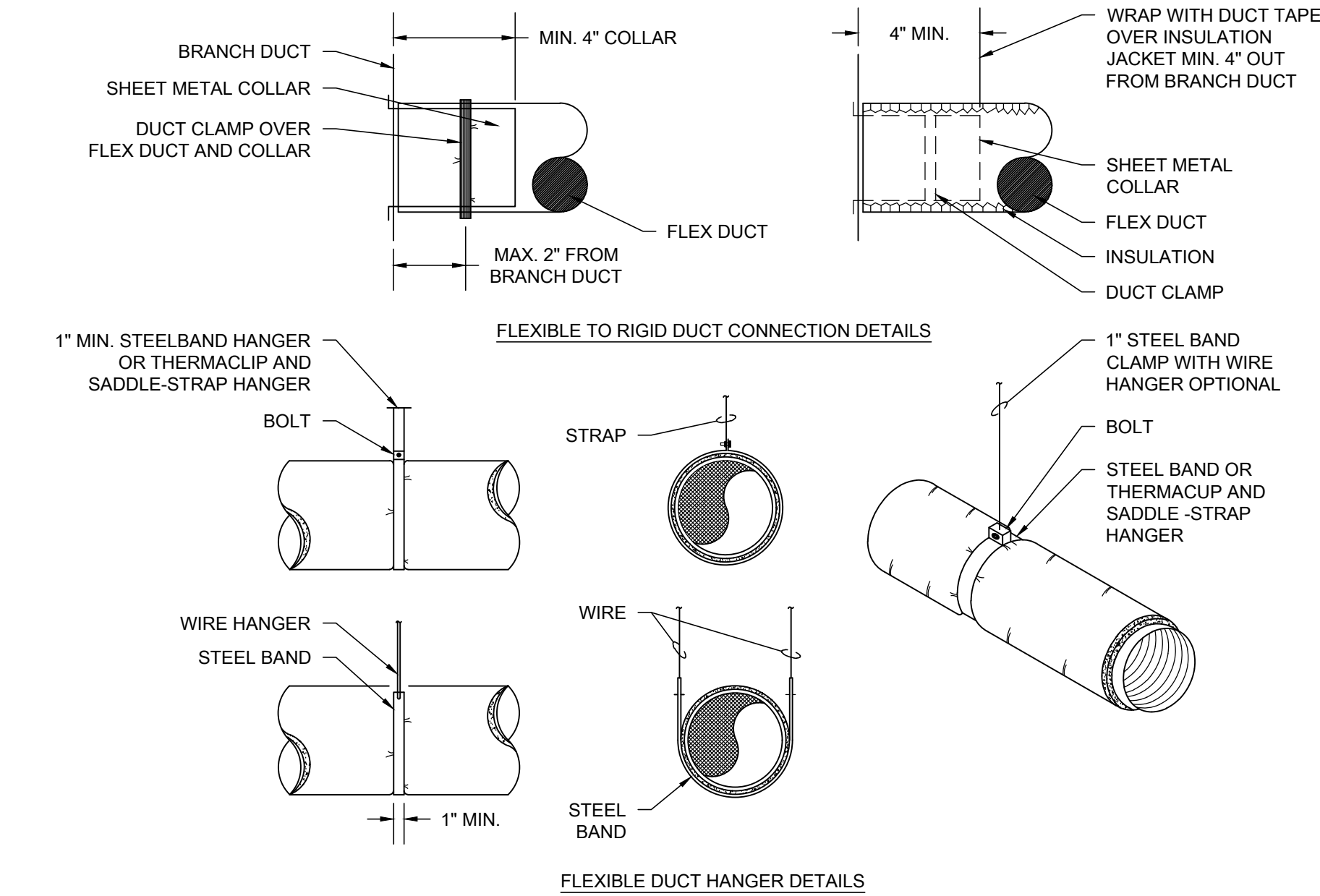
4 FLEXIBLE CONNECTION DETAIL

SCALE: NO SCALE



9 ROUND DUCT TAKEOFF DETAIL

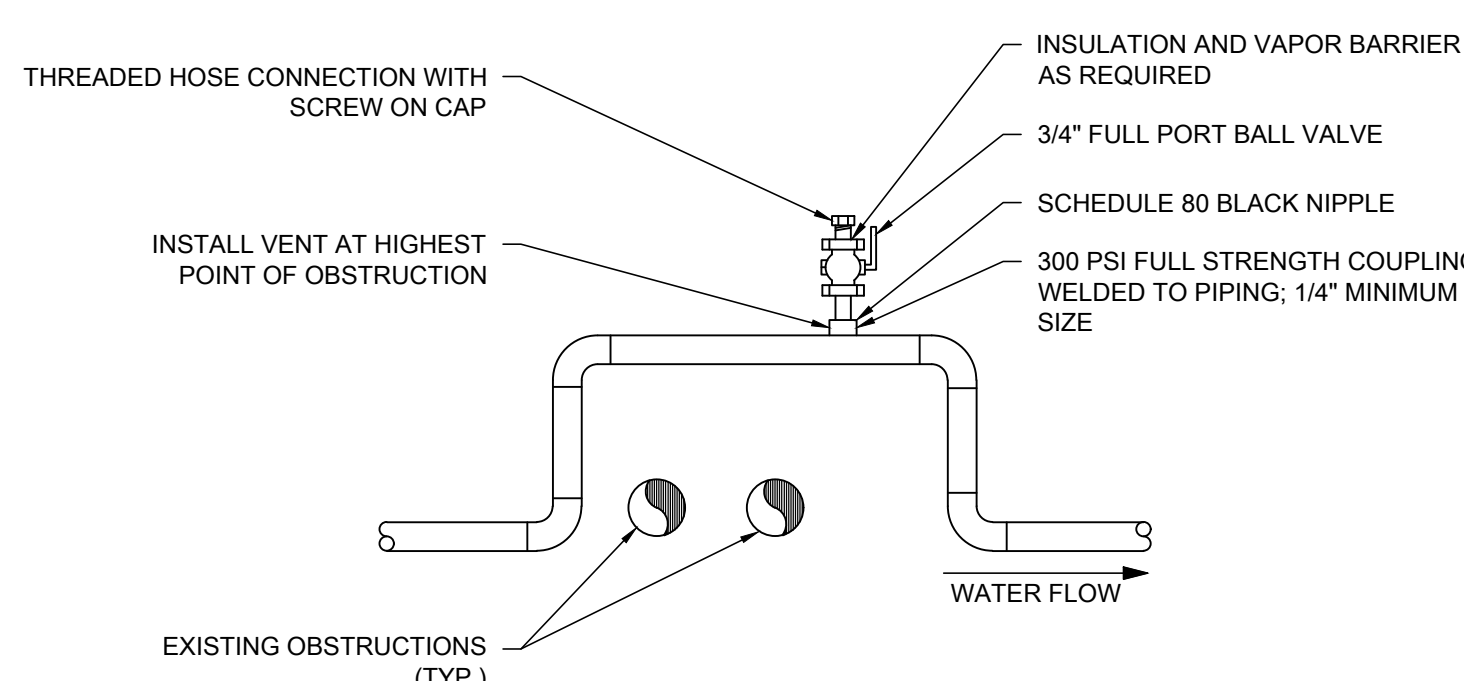
SCALE: NO SCALE



- NOTES:
- MAXIMUM PERMISSIBLE SAG BETWEEN SUPPORTS TO BE 1/2" PER FOOT.

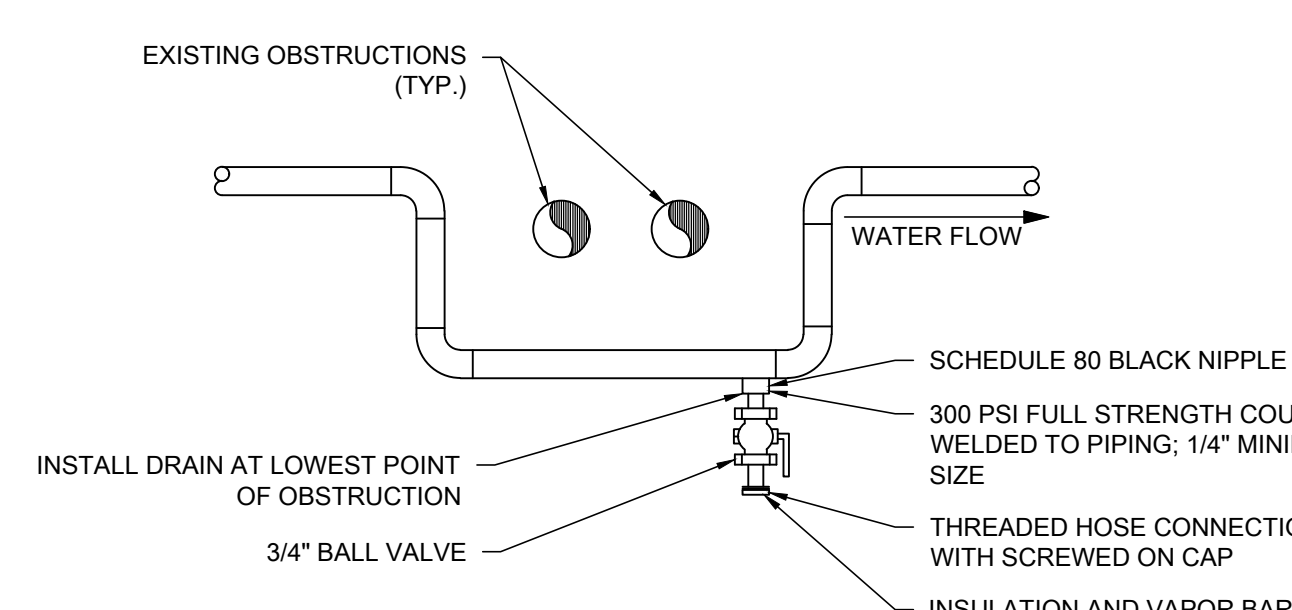
5 FLEXIBLE DUCT HANGER AND CONNECTION DETAILS

SCALE: NO SCALE



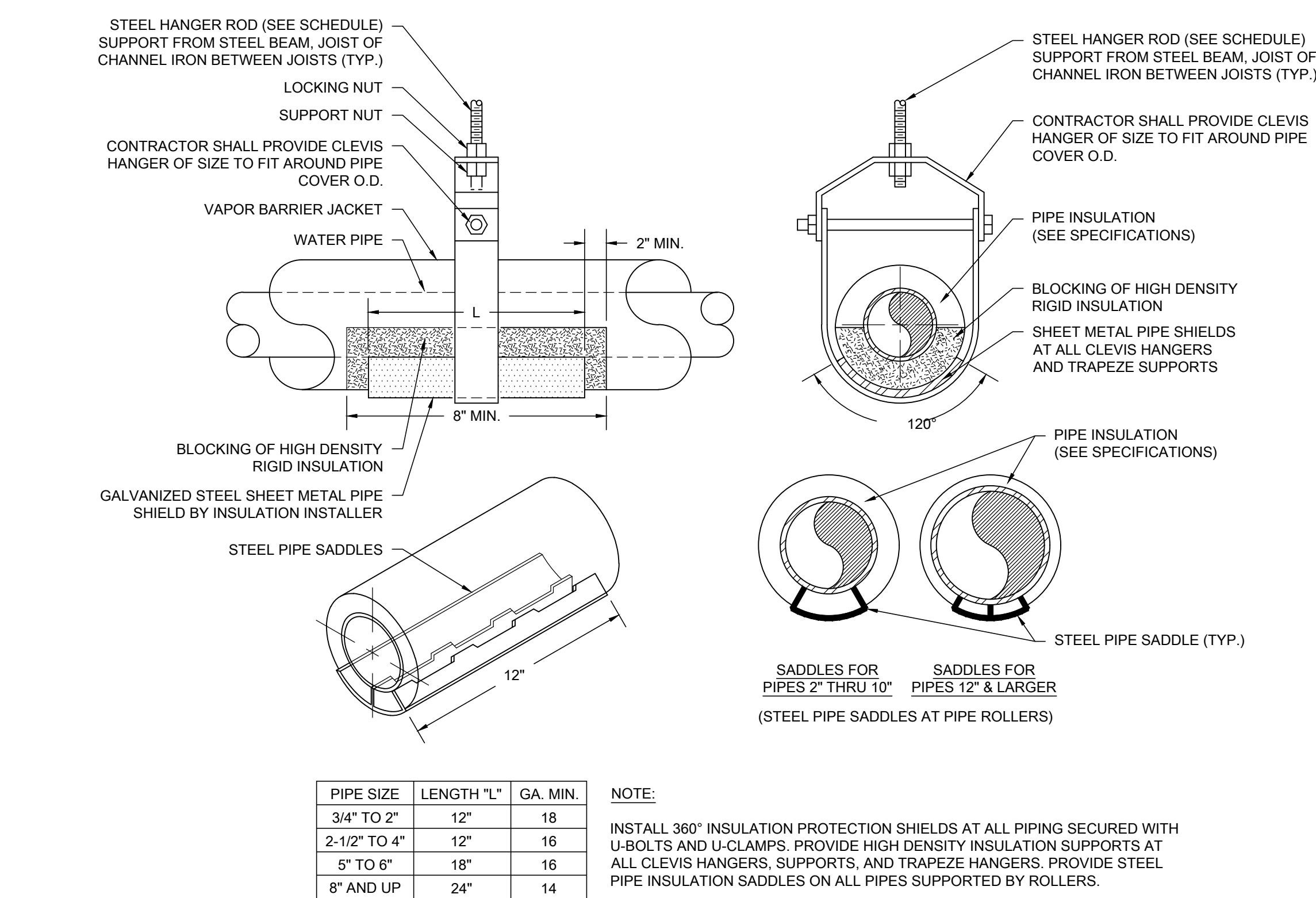
6 HIGH POINT MANUAL VENT DETAIL

SCALE: NO SCALE



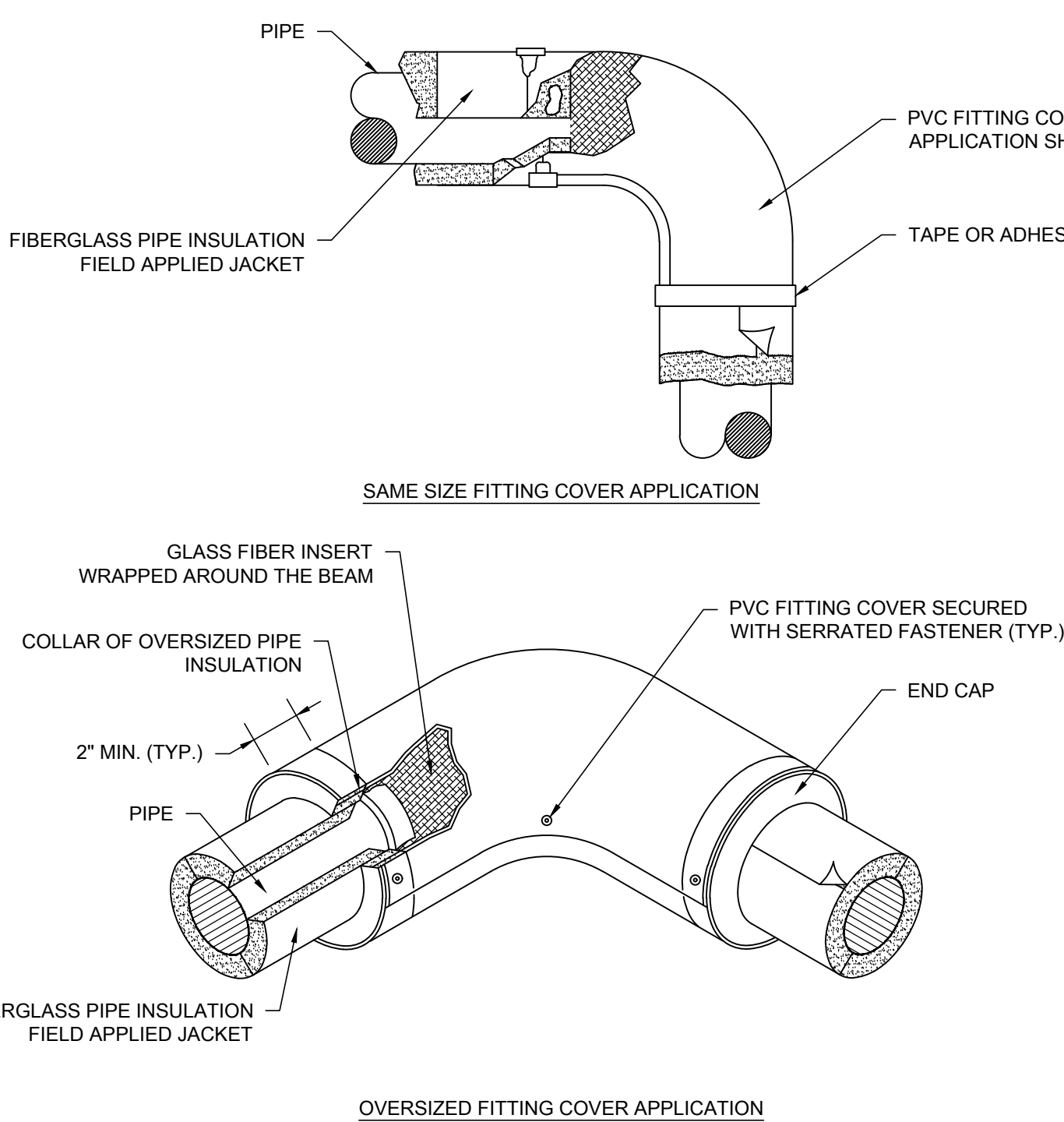
7 LOW POINT MANUAL DRAIN DETAIL

SCALE: NO SCALE



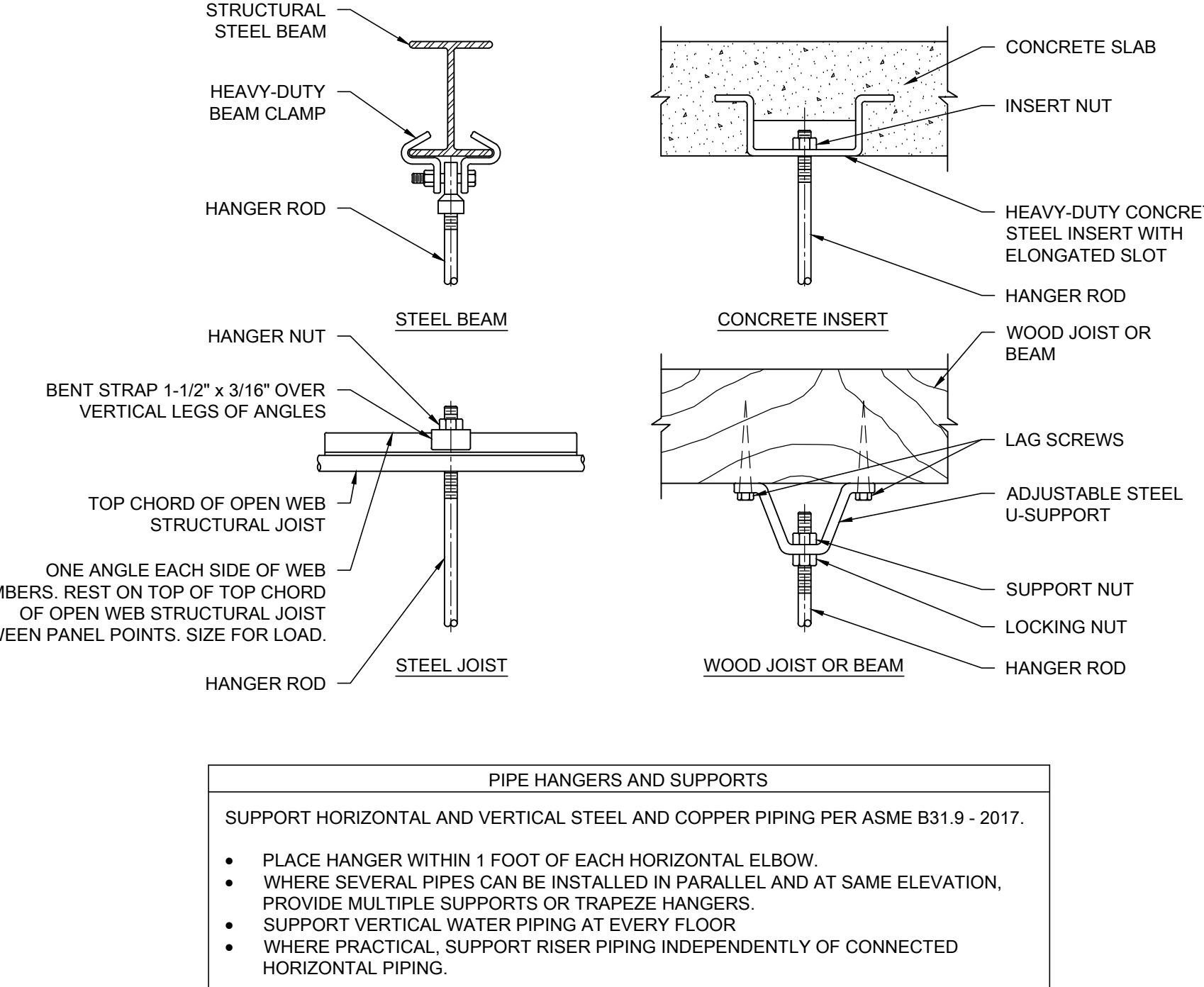
10 PIPE COVERING PROTECTION SHIELDS AND PIPE SADDLES

SCALE: NO SCALE



11 PVC / GLASS FIBER ELBOW INSULATION SYSTEM DETAILS

SCALE: NO SCALE



12 PIPING HANGER DETAILS

SCALE: NO SCALE

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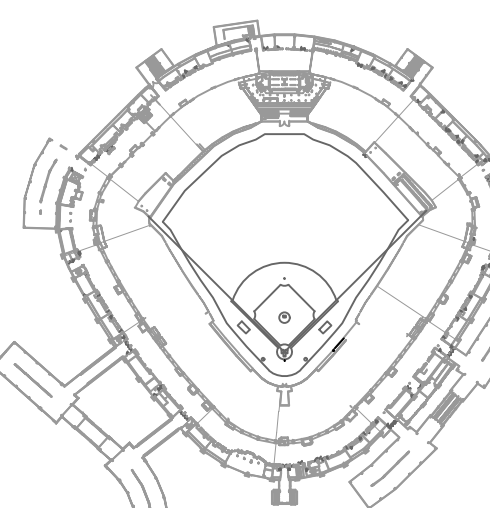
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1	11/05/21	ISSUED FOR BID

PROJECT:
GUARANTEED RATE FIELD -
HVAC REPLACEMENT PHASE XI

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
MECHANICAL DETAILS

DESIGNED BY: DA

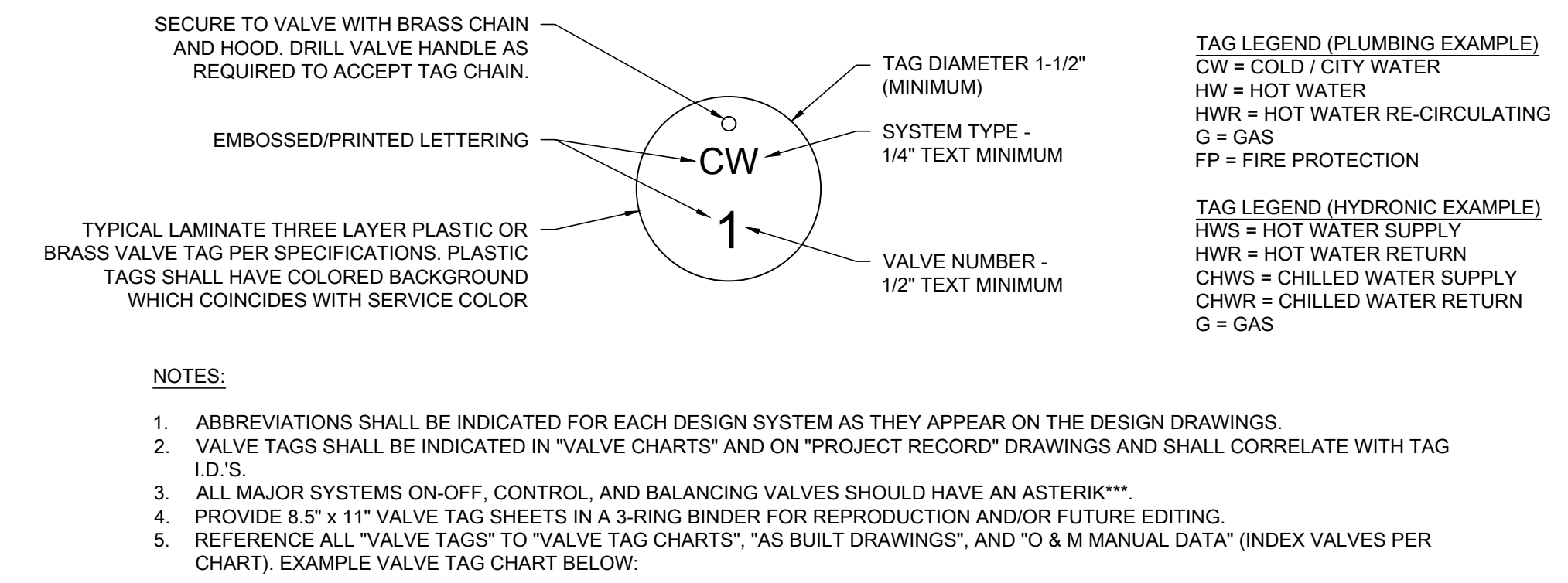
CHECKED BY: MS

PROJECT NO: 21276

SCALE: NO SCALE

SHEET NO.

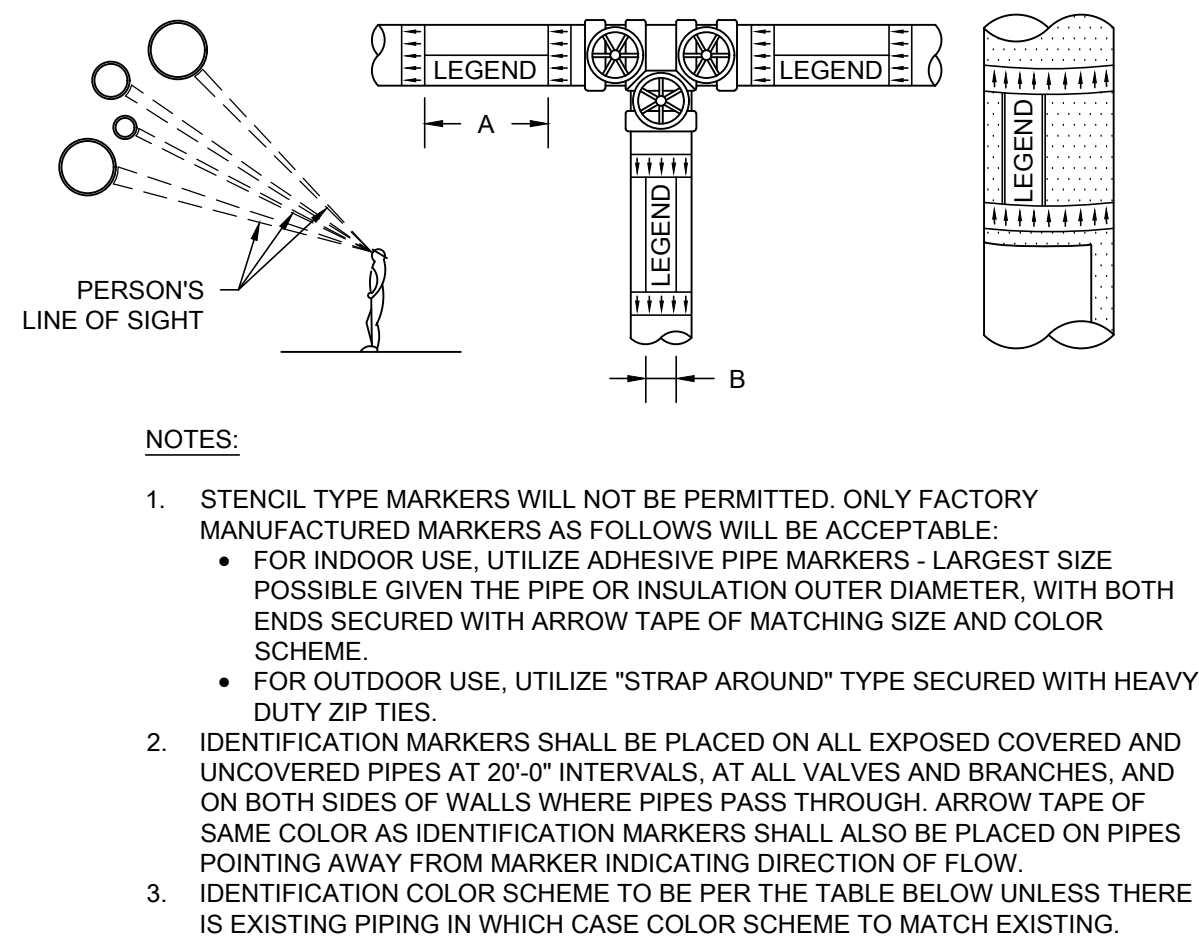
M3.02



VALVE TAG CHART FOR: XXXXXXXX		MOD: XXX	AREA: XXX	WING: XXX	FLOOR: XXX		
VALVE TAG #	LOCATION (ALSO SEE AS-BUILT DRAWINGS)	FUNCTION (WHAT IT DOES & WHAT/WHERE IT SERVICES)					
CW-1	RM. XXX - ABOVE CEILING	ON-OFF - FIXTURES IN RM. XXX & XXX.					
CW-2	CORR. XXX - ABOVE DOOR @ RM. XXX	BALANCE - 2ND FLOOR, EAST SIDE, NORTH WING					
CW-3	BOILER RM. XXX - NE CORNER	ON-OFF - MAIN - BLDGS X, Y, & Z					
CW-4	RM. XXX - BEHIND N. ACCESS PANEL	ON-OFF - EXTERIOR FIELD HOUSE - IRRIGATION					
CW-5	RM. XXX - ABOVE CEILING	ON-OFF - MIXING VALVE - EYEWASH					

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

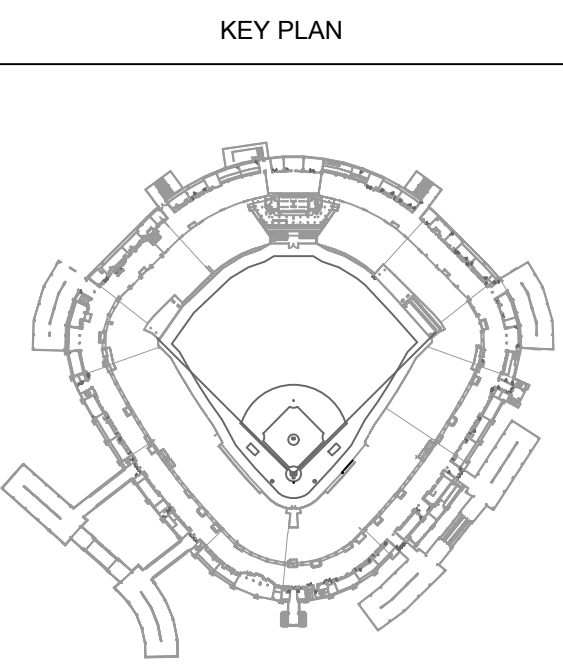
5 AHU 6B1 DETAIL

SCALE: NO SCALE

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

PROJECT:
GUARANTEED RATE FIELD -
HVAC REPLACEMENT PHASE XI

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
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DESIGNED BY: DA
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SCALE: NO SCALE

SHEET NO.

M3.03

EQUIP. TAG		HYDRONIC COILS (HC)																				NOTES			
ABS.	NO.	LOCATION	SERVICE	MFR	GENERAL			CFM	FLUID TYPE	PHYSICAL							PERFORMANCE								
					MODEL	OPERATING WEIGHT (LBS)	NUMBER OF COILS			FIN LENGTH (IN)	FIN HEIGHT (IN)	ROWS	FIN	FIN TYPE	FIN THICKNESS (IN)	EA T/DBW (°F)	LA T/DBW (°F)	EWT (LBS)	LWT (LBS)	TOTAL CAP. (MBH)	SEN. CAP. (MBH)		FACE VELOCITY (FPM)	APD (IN WG)	GPM
CC	1	AHU-3A.1	COOLING COIL	CARRIER	28MC	1	13800	30% PG	6	14	SINE WAVE	0.0042	80	67	44	54	627	472	396	455	0.73	100	3	7.1	ALL
CC	2	AHU-3A.2	COOLING COIL	CARRIER	28MC	1	18300	30% PG	6	14	SINE WAVE	0.0042	80	67	44	54	627	472	499	0.84	152.5	3.4	5.9	ALL	
CC	3	AHU-6B.1	COOLING COIL	CARRIER	28MC	1	13845	30% PG	6	14	SINE WAVE	0.0042	80	67	44	54	473	357	456	0.73	100	3	7.1	ALL	
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.																									

1. FAN SHALL BE CONSTRUCTED CARBON STEEL NOT LESS THAN 0.05" IN THICKNESS, OR STAINLESS STEEL NOT LESS THAN 0.04" IN THICKNESS.
2. PROVIDE WITH ACCESS OPENING IN OUTER FAN HOUSING FOR CLEANING AND INSPECTION OF THE FAN BLADES PER NFPA 96.
3. PROVIDE WITH FLANGE AT INLET FOR SECURELY BOLTED CONNECTION TO WELDED GREASE DUCT PER NFPA 96.
4. PROVIDE VISIBLE GREASE RECEPTACLE NOT TO EXCEED 1 GALLON FOR DIRECT CONNECTION TO EXHAUST FAN GREASE DRAIN.
5. FAN MOTOR SHALL BE LOCATED OUTSIDE OF THE AIRSTREAM.

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.

ABB.	NO.	LOCATION	MFR.	UNIT SIZE	CFM	INCHES (CFM)	AREA (SQ. FT.)	SUB CIRCUITS	STAGES	KW	(F)	(F)	CAP (MB)	VELOCITY (FPM)	(IN. WC)	VOLTS	HZ	PHASE	
EHC	1	AHU-3A-1	CARRIER	30W	13800	5082	14.52	4	VERNER	149	60	93.5	508.5	950.4	0.05	480	60	3	SEE BELOW
EHC	2	AHU-3A-2	CARRIER	30W	10300	6545	18.7	4	VERNER	200	60	93.9	682.6	978.6	0.05	480	60	3	SEE BELOW
EHC	3	AHU-6B-1	CARRIER	30W	13845	5082	14.52	4	VERNER	149	80	93.4	508.5	953.5	0.05	480	60	3	SEE BELOW

1.	CONTRACTOR SHALL VERIFY BORE 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 FRAME WITH SCREW FASTENINGS.
4.	LAY-IN FRAME.
5.	MANUFACTURER PROVIDED OPPOSED BLADE DAMPER, ACCESSIBLE THROUGH FACE OF DEVICE.
6.	RAPID MOUNT FRAME.
7.	ADJUSTABLE AIR SCOOP: AIR SCOOP TO BE PAINTED BLACK.
8.	SCHEDULED MANUFACTURER SHALL BE BASE BID.
9.	MANUFACTURER PROVIDED PLENUM: PLENUM NECK SIZE TO MATCH DUCT SIZE, REFER TO PLANS.

NOTES:

1. FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.
2. PROVIDE 1/4" HIGH PREFABRICATED, INSULATED, ROOF CURB WITH COUNTER FLASHING CURB CAP.
3. ALUMINUM BIRD SCREEN.
4. MOTORIZED BACKDRAFT DAMPER SHIPPLED, TO BE INSTALLED BY MC AND WIRED BY EC. PROVIDE TRANSFORMER AS REQUIRED.
5. MOTOR COVER BELT GUARD.
6. PROVIDE 1 PARE SET OF BELTS FOR OWNERS ATTIC STOCK.
7. VIBRATION ISOLATION KIT PROVIDED BY MANUFACTURER TO BE INSTALLED BY MC.
8. NEMA PREMIUM EFFICIENCY MOTOR SHIPPLED FACTORY MOUNTED ON FAN.
9. EBM FAN WITH SINGLE 0-100V CONTROLLER FACTORY MOUNTED ON FAN.
10. FAN SHALL BE CONTROLLED BY SPACE TEMPERATURE SENSITHORIZED BY EC.
11. FAN SHALL BE CONTROLLED BY TIME CLOCK, FURNISHED AND INSTALLED BY EC.

1. MANUFACTURER CERTIFIED 1 YEAR WARRANTY ON ENTIRE UNIT AND 5 YEAR PARTS ONLY COMPRESSOR WARRANTY.
2. MANUFACTURER PROVIDED START-UP
3. ECM CONDENSER FANS WITH HEAD PRESSURE CONTROL.
4. HOT GAS BYPASS
5. VERTICAL DISCHARGE
6. SINGLE POINT POWER.
7. NON-FLUED DISCONNECT.
8. FACTORY MOUNTED AND WIRED 120V CONVENIENCE OUTLET. POWERED FROM LINE SIDE OF DISCONNECT SWITCH.
9. FACTORY MOUNTED 120V CONVENIENCE OUTLET FOR FIELD FLOWING.
10. UL LISTED
11. SCHEDULED MANUFACTURER AND MODEL SHALL BE BASE, BIRD
12. ADDITIONAL ACCEPTABLE MANUFACTURERS: ACON, CARRIER, YORK, DAKIN, LENNOX, LIEBERT, LG, MITSUBISHI, TRANE

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 OWNER'S STOCK.
6. ACCEPTABLE ALTERNATE MANUFACTURERS: DAIKIN, TRANE, YORK.

1.	CAPACITIES ARE BASED ON HIGH FAN SPEED
2.	MANUFACTURER PROVIDED 24/7 PROGRAMMABLE THERMOSTAT
3.	FLARED CONNECTIONS ARE NOT ALLOWED FOR CHGCO INSTALLATIONS. ALL JOIN
4.	BACNET CARD
5.	DISCONNECT SWITCH
6.	CONDENSATE PUMP.
7.	PROVIDE (1) EXTRA SET OF FILTERS FOR OWNERS STOCK.
8.	ACCEPTABLE ALTERNATE MANUFACTURERS: LIEBERT, LG, MITSUBISHI, SAMSUNG

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.

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.

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.

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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.

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KEY PLAN

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-	11/05/21	ISSUED FOR BID

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
SCALE:	NO SCALE

SHEET NO.
















M5.02

ABBREVIATIONS

AMP	AMPERE	JB	JUNCTION BOX
ADP	ADJUSTABLE	JEC	KITCHEN EQUIPMENT CONTRACTOR
AC	ALTERNATING CURRENT	KO	KNOCKOUT
ACL	ACROSS THE LINE	KW	KILOWATT
ACU	ACOUSTICAL CEILING TILE	KV	KILOVOLT
AD	ACCESS DOOR	KV	KILOVOLT-TAMPERE
AD	ADJUSTABLE	KW	KILOWATT
ADFI	ADJUSTED FINISH FLOOR	LF	LINE
AFCI	ARC FAULT CIRCUIT INTERRUPTER	LCD	LIQUID CRYSTAL DISPLAY
AF	AMP FUSE	LE	LEAD EMITTING DIODE
AFJ	AUTHORITY HAVING JURISDICTION	LS	LOAD SPEAKER
AGC	AMPERES INTERRUPTING CAPACITY	LTS	LIGHTING
AI	AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS	LV	LOW VOLTAGE
AL	ALUMINUM	MAG	MAGNETIC
ALM	ALARM	MAN	MANUAL
ALT	ALTERNATE	MAT	MATERIAL
ANN	ANNUNCIATOR	MAX	MAXIMUM
ANS	AMP SWITCH	MCC	MECHANICAL CONTRACTOR
AT	AMP TRIP	MCA	MINIMUM CIRCUIT AMPS
ATS	AUTOMATIC TRANSFER SWITCH	MCB	MINIMUM CIRCUIT BREAKER
AUTO	AUTOMATIC	MCC	MOTOR CENTER
AVC	Above Counter	MCCB	MOLDED CASE CIRCUIT BREAKER
AWG	AMERICAN WIRE GAUGE	MCM	THOUSAND CIRCULAR MILLS
BAL	BALLAST	MCS	MOLDED CASE SWITCH
BASC	BUILDING AUTOMATION SYSTEM CONTROL	MCH	MECHANICAL
BGB	BUILDING OPERATION BOX	MFR	MANUFACTURER
BHP	BREAK HORSPOWERS	MH	METAL HALIDE
BK	BREAKER	MIC	MICROWAVE
C	CONDUIT	MIN	MINIMUM
CAB	CABINET	MISC	MISCELLANEOUS
CAT	CATALOG	MOPC	MAXIMUM OVER CURRENT PROTECTION
CATV	CABLE TELEVISION	MO	MOUNTED
CB	CIRCUIT BREAKER	MTR	MOTOR
CBC	CLOTH BUILDING CODE	MTR	MATERIAL TRANSFER SWITCH
CBG	CLOSED CIRCUIT TELEVISION	MTS	MERCURY VAPOR
COW	COUNTER/CLOCKWISE	N	NEUTRAL
CD	CANDELA	NAC	NOTIFICATION APPLANCE CIRCUITS
CEDC	COMMONWEALTH Edison COMPANY	NCL	NORMALLY CLOSED
CET	CIRCUIT IN CONDUIT	NEG	NATIONAL ELECTRICAL CODE
CIC	CIRCUIT	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CL	CENTER LINE	NC	NOT IN CONTRACT
CLC	CEILING	NL	NIGHT LIGHT
CLK	CLOCK	NO	NORMALLY OPENED
CLC	CLOSE	NOT	NOT TO SCALE
CO	COIL	OCP	OVER CURRENT PROTECTION
COAX	CABLE	OL	OVERLOAD
COM	COMMON	OVHD	OVERHEAD
COMED	COMMON COMPANY	P	POLES
CNC	CONCRETE	PA	PUBLIC ADDRESS
CT	CURRENT TRANSFORMER	PB	PULL BOX
COP	COPPER	PE	PROFESSIONAL ENGINEER
C.U.	COEFFICIENT OF UTILIZATION	PCU	PANEL CONTROL UNIT
CUH	CABINET UNIT HEATER	PL	PHASE
CW	CLOCKWISE	PL	PROPERTY LINE
DB	DECEMBER	PNL	PANEL
DC	DIRECT CURRENT	PR	PRIMARY
DEG	DEGREE	PROT.	PROTECTION OR PROTECTIVE
DEMO	DEMOLITION	PT	POINT
DOWN	DOWN	PTD	PAINTED
DO	DRAW OUT	PVC	POLYVINYL CHLORIDE (ELECTRIC GRADE)
DOUT	DISCONNECT SWITCH	Q	QUANTITY
DPST	DOUBLE POLE SINGLE THROW	R	RESISTANCE
DISC	DISCONNECT SWITCH	RC	REMOTE CONTROL
DW	DUSTWASHER	REF	REFLECTED CEILING PLAN
DWG	DRAWING	REF	REFRIGERATOR
ELARA	ELECTRICAL ENGINEERING	REV	REVERSE OR REVISION
EA	ELECTRIC	RECP	RECEPTACLE
EC	ELECTRICAL CONTRACTOR	RM	ROOM
EF	EXHAUST FAN	RMC	RIGID METAL CONDUIT (GALVANIZED)
ENG	ELECTRIC HAND DRYER	RMS	ROOT MEAN SQUARE
ELEC	ELECTRIC	RTN	RAT RAINOUT
ELEV	ELEVATOR	RAT	RATING
EM	EMERGENCY	RVR	REDUCED VOLTAGE NON-REVERSING SWITCH
EMT	ELECTRIC METALLIC TUBING (THIN WALL CONDUIT)	RVR	REDUCED VOLTAGE REVERSING SWITCH
ENR	ENGINEER	SEC	SECONDARY
EP	EXPLOSION PROOF	SC	SHORT CIRCUIT
EQ	ELECTRIC POWER OFF EQUIPMENT	SCH	SCHEDULE
ERR	ELECTRIC TO RELOCATE	SF	SQUARE FOOT
EWH	ELECTRIC UNIT HEATER	SP	SINGLE POLE
EWG	ELECTRIC WATER COOLER	SPC	SINGLE POLE CONNECTION
EWL	ELECTRIC WALL HEATER	SPDT	SINGLE POLE DOUBLE THROW
EX	EXISTING TO REMAIN	SPEC	SPECIFICATION
EXT	EXTENDER	SPKR	SPEAKER
F	FUSE	SPST	SINGLE POLE SINGLE THROW
FA	FIRE ALARM	SS	STAINLESS STEEL
FB	FIRE BOX	STA	STATION
FC	FOOTCANDLE	STD	STEEL
FDC	FIRE DEPARTMENT CONNECTION	SW	SWITCH
FDR	FEDER	SWBD	SWITCHBOARD
FF	FINISHED FLOOR	SWGR	SWITCHGEAR
FX	FIXTURE	SYN	SYMMETRICAL
FLX	FLUORIDE	SYS	SYSTEM
FLU	FLUORIDE	TRP	TERMINAL
FPB	FAN POWERED BOX	TC	TERMINAL CABINET
FPS	FUSE SWITCH	TEL	TELEPHONE
FT	FEET	TEL CL	TELEPHONE CLOSET
FURN	FURNITURE	TEMP	TEMPORARY
FVR	FULL VOLTAGE NON-REVERSING	TERM	TERMINAL
FWD	FULL VOLTAGE REVERSING	TL	TWIST LOCK
FWD	FORWARD	TRF	TRANSFORMER
G	GROUND	TS	TIME SWITCH
GALV	GALVANIZED	TTC	TELEPHONE TERMINAL CABINET
GEN	GENERAL CONTRACTOR	TV	TELEVISION
GEN	GENERATOR	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
GR	GROUNDING CIRCUIT INTERRUPTER	UG	UNDERGROUND
GRW	GALVANIZED HEAVY WALL STEEL CONDUIT	UH	UNIT HEATER
H	HOT	UNL	UNDERWRITERS LABORATORIES
HD	HEAVY DUTY	UNGR	UNGROUNDING
HDCP	HANDICAPPED	UNL	UNLESS NOTED OTHERWISE
HDCG	HOGAN GROUNDING DISCHARGE	UPS	UNINTERRUPTIBLE POWER SUPPLY
HID	HIGH INTENSITY DISCHARGE	V	V

SHEET LIST TABLE	
Sheet Number	Sheet Title
ED.01	ELECTRICAL TITLE SHEET
ED.01	ELECTRICAL DEMOLITION PLAN - CONCOURSE OVERALL
ED.02	ELECTRICAL DEMOLITION PLANS - CONCOURSE ENLARGED PLANS
ED.03	ELECTRICAL DEMOLITION PLAN - 100 LEVEL OVERALL
ED.04	ELECTRICAL DEMOLITION PLANS - 100 LEVEL ENLARGED PLANS
ED.05	ELECTRICAL DEMOLITION PLAN - 200 LEVEL OVERALL
ED.06	ELECTRICAL DEMOLITION PLANS - 200 LEVEL ENLARGED PLANS
ED.07	ELECTRICAL DEMOLITION PLAN - 300 LEVEL OVERALL
ED.08	ELECTRICAL DEMOLITION PLANS - 300 LEVEL ENLARGED PLANS
ED.09	ELECTRICAL DEMOLITION PLAN - 500 LEVEL OVERALL
ED.10	ELECTRICAL DEMOLITION PLANS - 500 LEVEL ENLARGED PLANS
EI.01	ELECTRICAL NEW WORK PLAN - CONCOURSE LEVEL OVERALL
EI.02	ELECTRICAL NEW WORK PLANS - CONCOURSE LEVEL ENLARGED PLANS
EI.03	ELECTRICAL NEW WORK PLAN - 100 LEVEL OVERALL
EI.04	ELECTRICAL NEW WORK PLANS - 100 LEVEL ENLARGED PLANS
EI.05	ELECTRICAL NEW WORK PLAN - 200 LEVEL OVERALL
EI.06	ELECTRICAL NEW WORK PLANS - 200 LEVEL ENLARGED PLANS
EI.07	ELECTRICAL NEW WORK PLANS - 300 LEVEL OVERALL
EI.08	ELECTRICAL NEW WORK PLANS - 300 LEVEL ENLARGED PLANS
EI.09	ELECTRICAL NEW WORK PLAN - 500 LEVEL OVERALL
EI.10	ELECTRICAL NEW WORK PLANS - 500 LEVEL ENLARGED PLANS
EJ.01	ELECTRICAL SCHEDULES
EJ.01	ELECTRICAL SPECIFICATIONS

POWER SYMBOLS

	JUNCTION BOX WITH SWITCH
	PANEL BOARD
	DISTRIBUTION PANEL, SWITCHGEAR, OR OTHER CABINET (AS NOTED)
	TRANSFORMER
	MOTOR ("X" DENOTES HORSEPOWER)
	MOTOR STARTER (FVNR)
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	COMBINATION STARTER WITH FUSE DISCONNECT SWITCH
	VFD WITH INTEGRAL FUSE AND DISCONNECT SWITCH
	VFD WITH INTEGRAL CIRCUIT BREAKER
	ELECTRICAL METER (UTILITY)
	CONTINUATION
	LUP
	DOWN

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

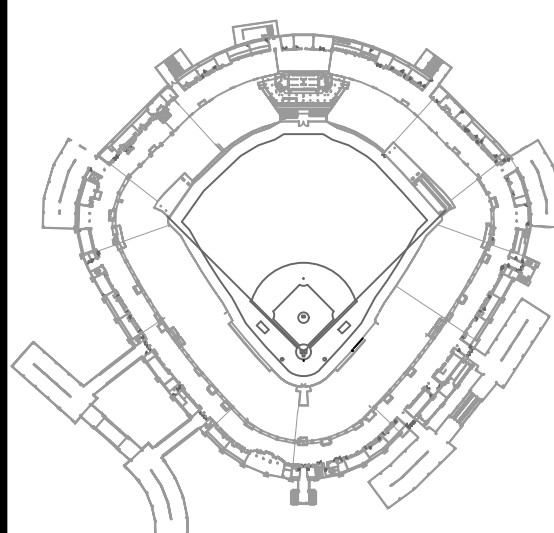
PROJECT GENERAL NOTES	
1.	FURNISH AND INSTALL POWER TO ALL HVAC EQUIPMENT PER MANUFACTURER'S REQUEST. EC SHALL COORDINATE WITH MANUFACTURER FOR ALL NEW HVAC EQUIPMENT.
2.	EC SHALL CONFIRM ALL REQUIREMENTS FOR NEW MECHANICAL EQUIPMENT AND PROVIDE THE NECESSARY ELECTRICAL EQUIPMENT REQUIRED. EC SHALL CONFIRM ALL OCPD RATCH THAT OF WHAT IS REQUIRED BY THE MANUFACTURER. EC SHALL NOTIFY ENGINEER IF ANY DISCREPANCIES ARE DISCOVERED.



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KEY PLAN



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[illegible]

PROJECT:
GUARANTEED RATE FIELD -
HVAC REPLACEMENT PHASE XI

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
ELECTRICAL TITLE SHEET

DESIGNED BY: TG

CHECKED BY: BT

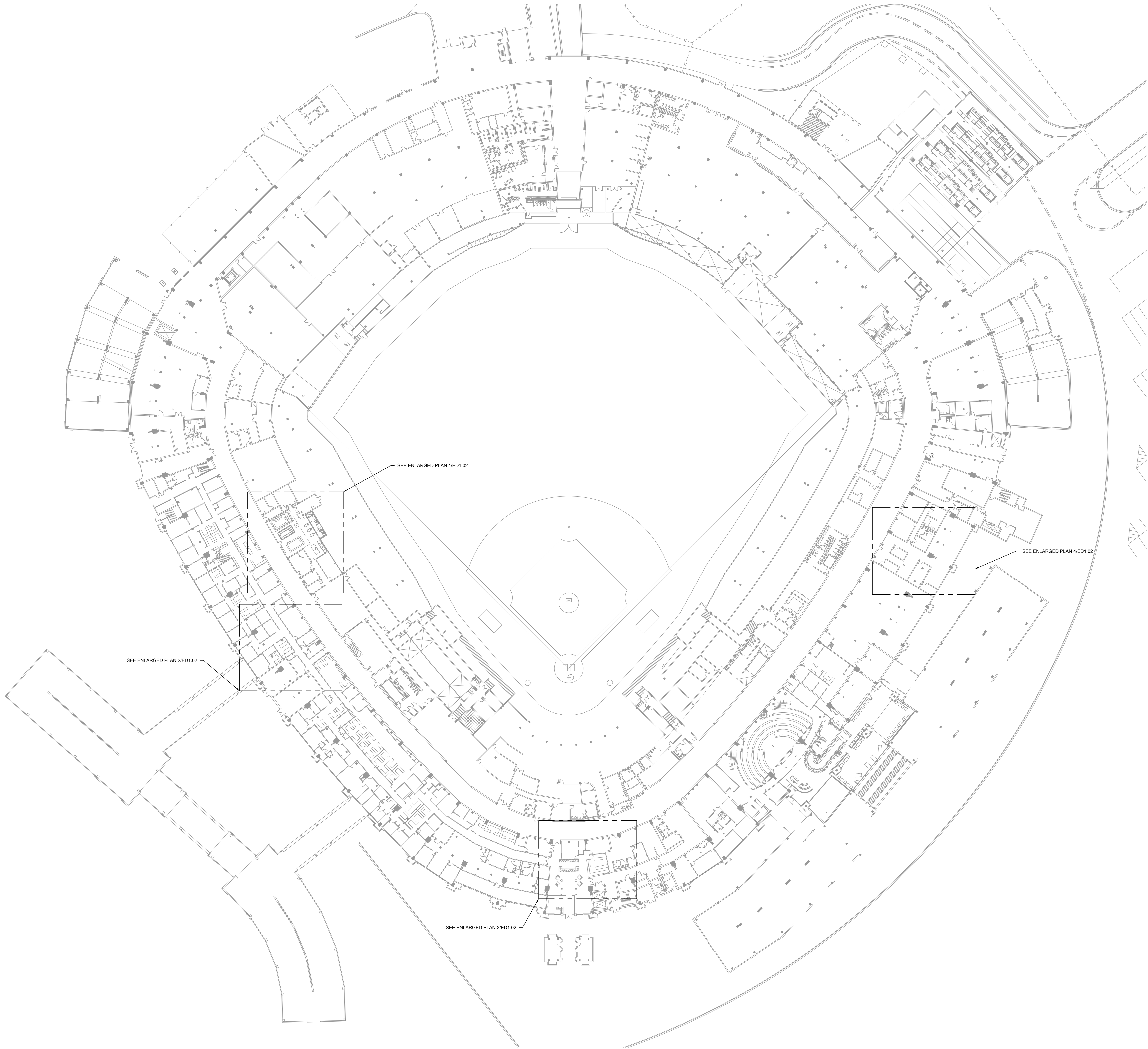
PROJECT NO:	21276
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SHEET NO.

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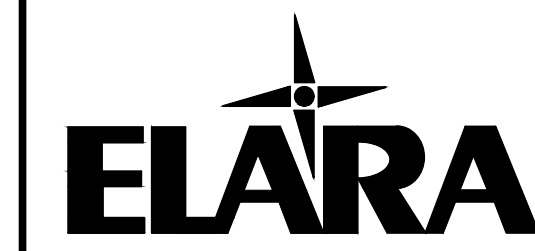
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E0.01



1 ELECTRICAL DEMOLITION PLAN - CONCOURSE LEVEL OVERALL

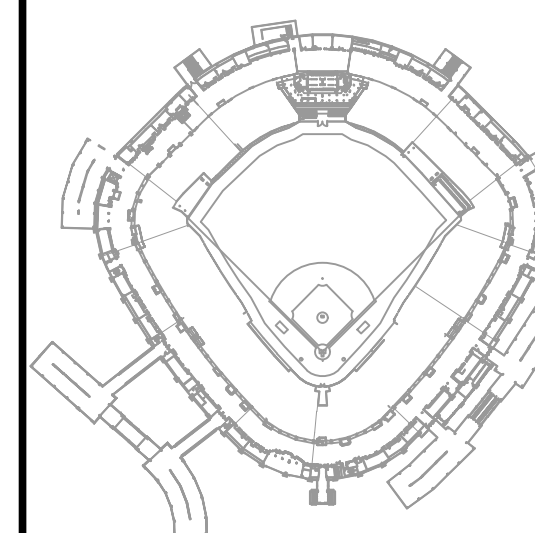
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PROJECT:
GUARANTEED RATE FIELD -
HVAC REPLACEMENT PHASE XI

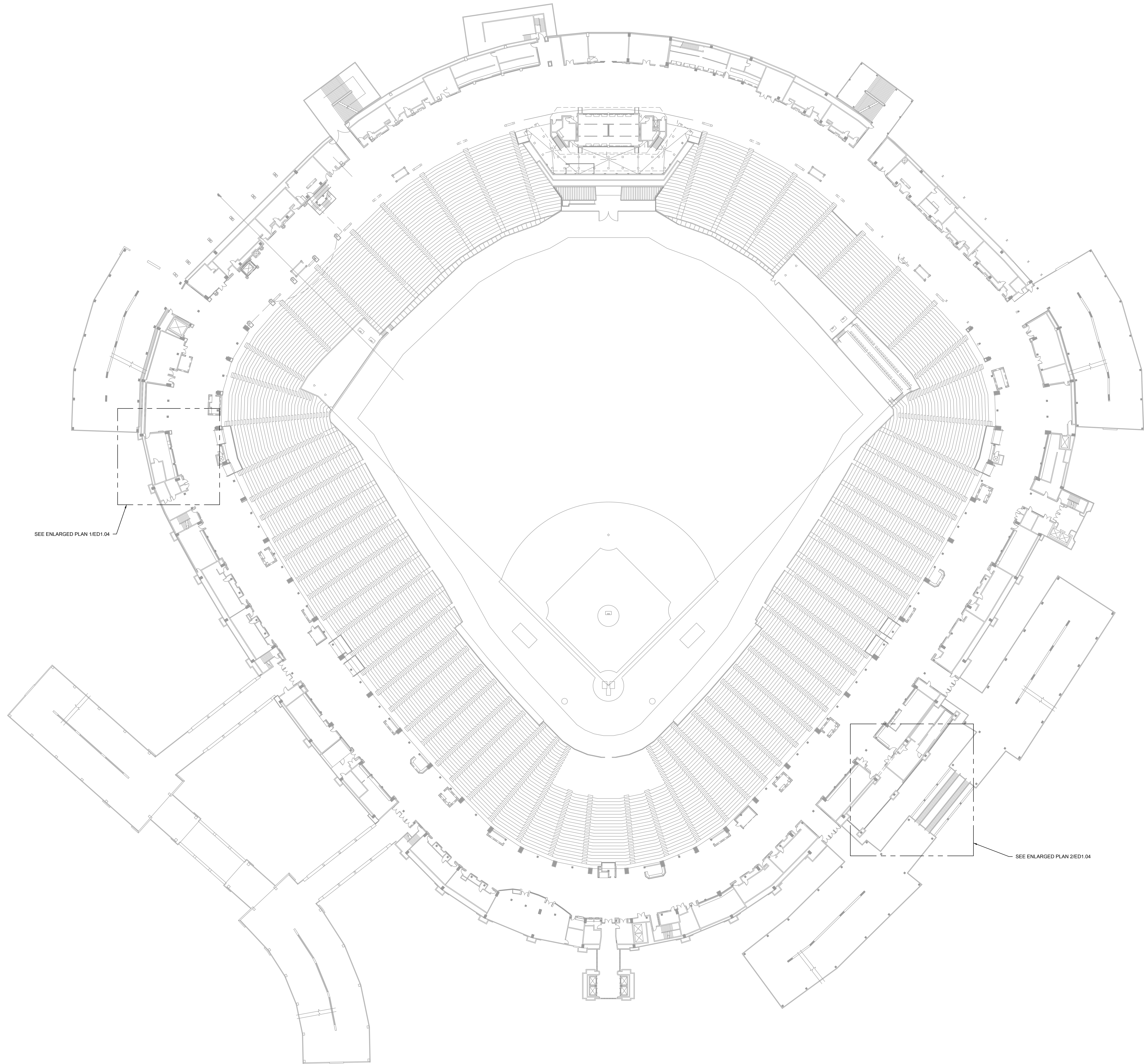
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
ELECTRICAL DEMOLITION
PLAN - CONCOURSE OVERALL

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

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ED1.01



1 ELECTRICAL DEMOLITION PLAN - 100 LEVEL OVERALL

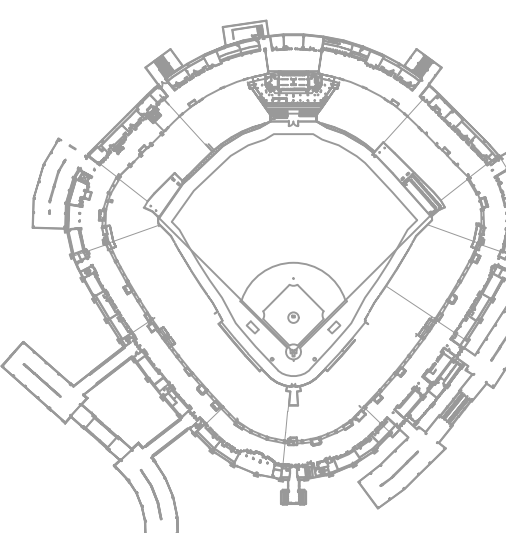
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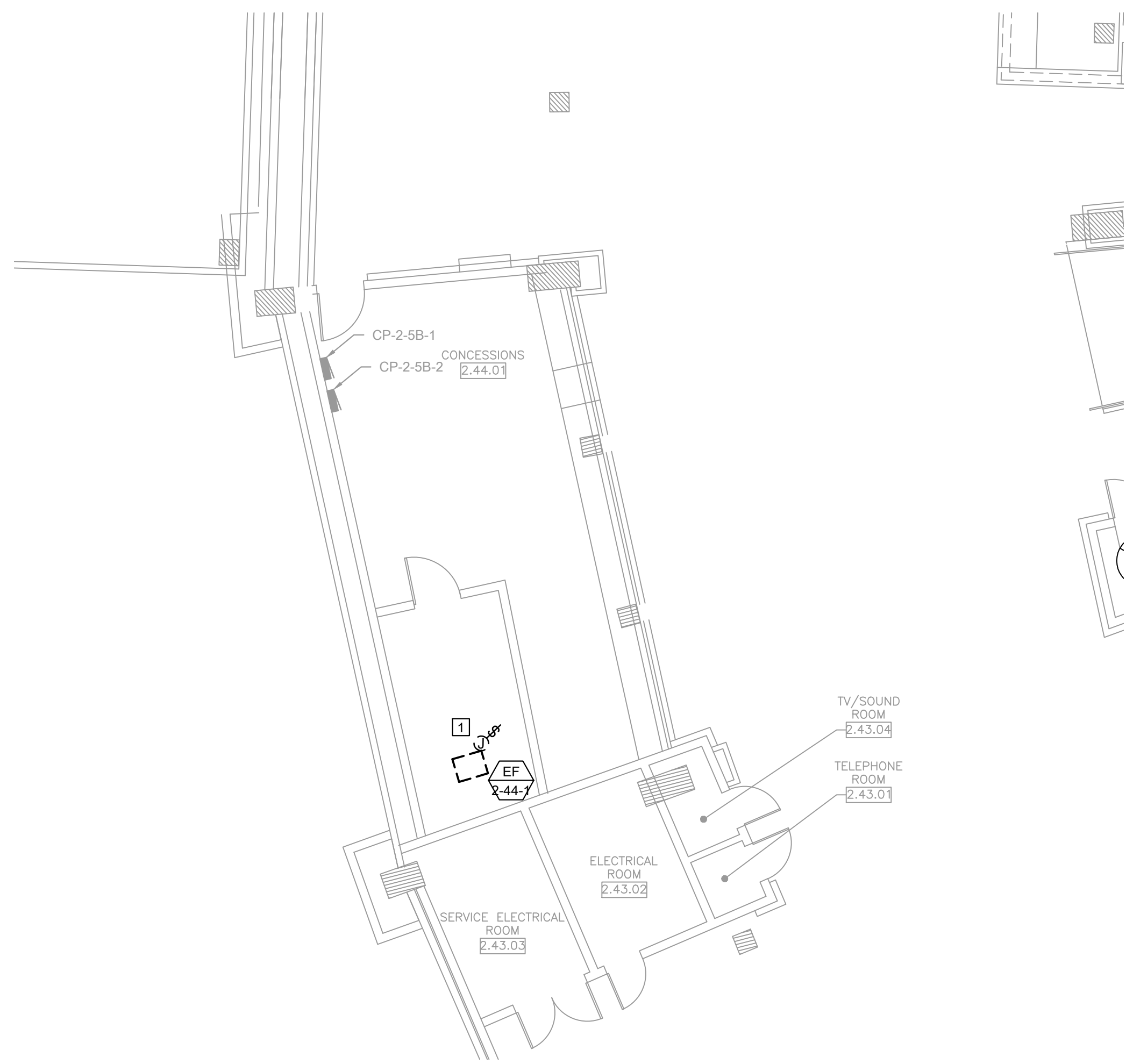
PROJECT:
GUARANTEED RATE FIELD -
HVAC REPLACEMENT PHASE XI
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

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PLAN - 100 LEVEL OVERALL

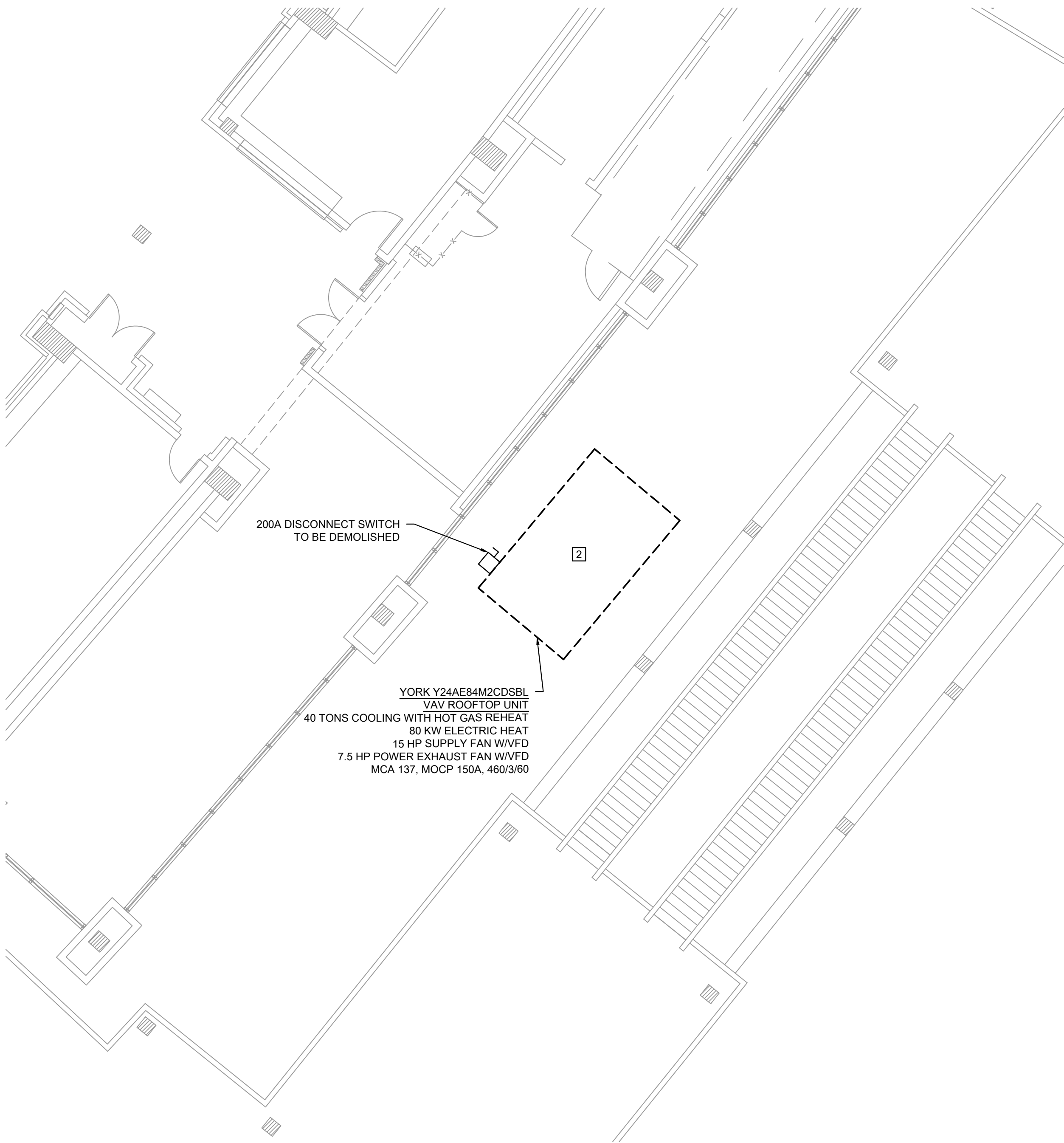
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CHECKED BY:	BT
PROJECT NO:	21276
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SHEET NO.	

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ED1.03



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



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

KEYED ELECTRICAL DEMOLITION SHEET NOTES

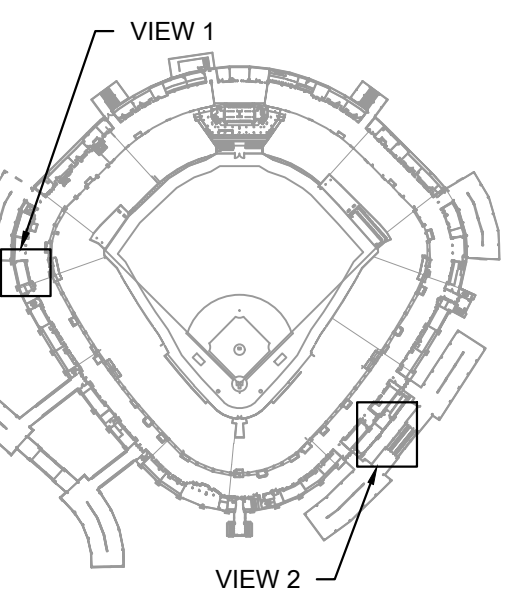
1. DISCONNECT AND REMOVE POWER FOR MECHANICAL EQUIPMENT SHOWN. EC SHALL MAINTAIN EXISTING BRANCH CIRCUIT AND EXISTING CONDUIT AND WIRES FOR INSTALLATION OF NEW MECHANICAL EQUIPMENT IN THE NEW WORK.
2. DISCONNECT AND REMOVE EXISTING POWER FOR MECHANICAL EQUIPMENT SHOWN. DISCONNECT AND REMOVE CONDUIT AND WIRES BACK TO THE EXISTING DISCONNECT SWITCH MOUNTED ON THE EXISTING ROOFTOP UNIT. 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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PROJECT:
GUARANTEED RATE FIELD -
HVAC REPLACEMENT PHASE XI

333 W 35TH STREET,
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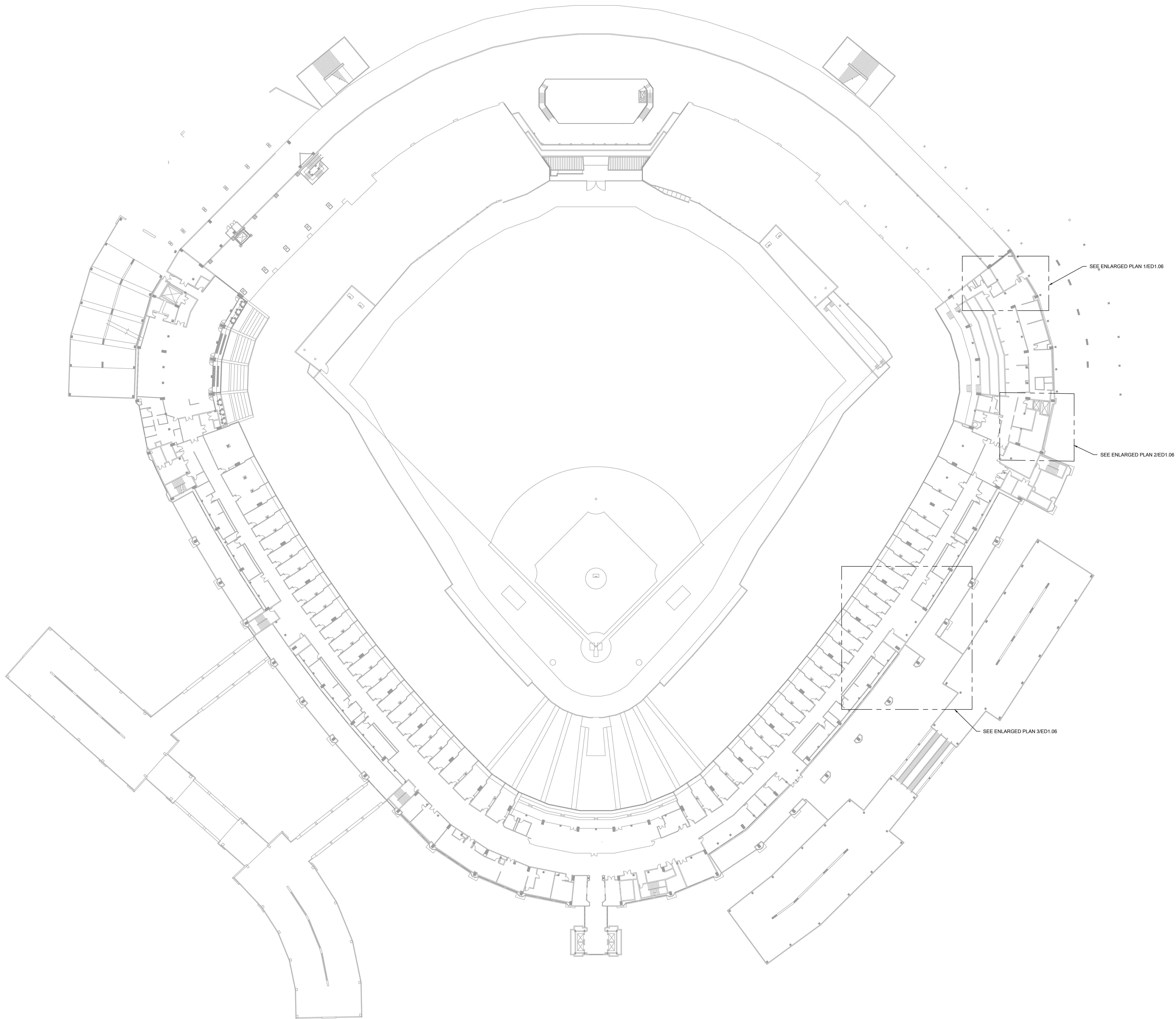
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ELECTRICAL DEMOLITION
PLANS - 100 LEVEL ENLARGED
PLANS

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

SHEET NO.

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ED1.04



1 ELECTRICAL DEMOLITION PLAN - 200 LEVEL OVERALL

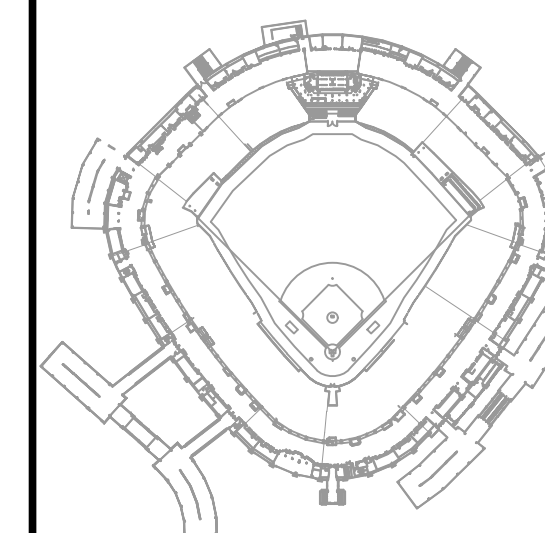
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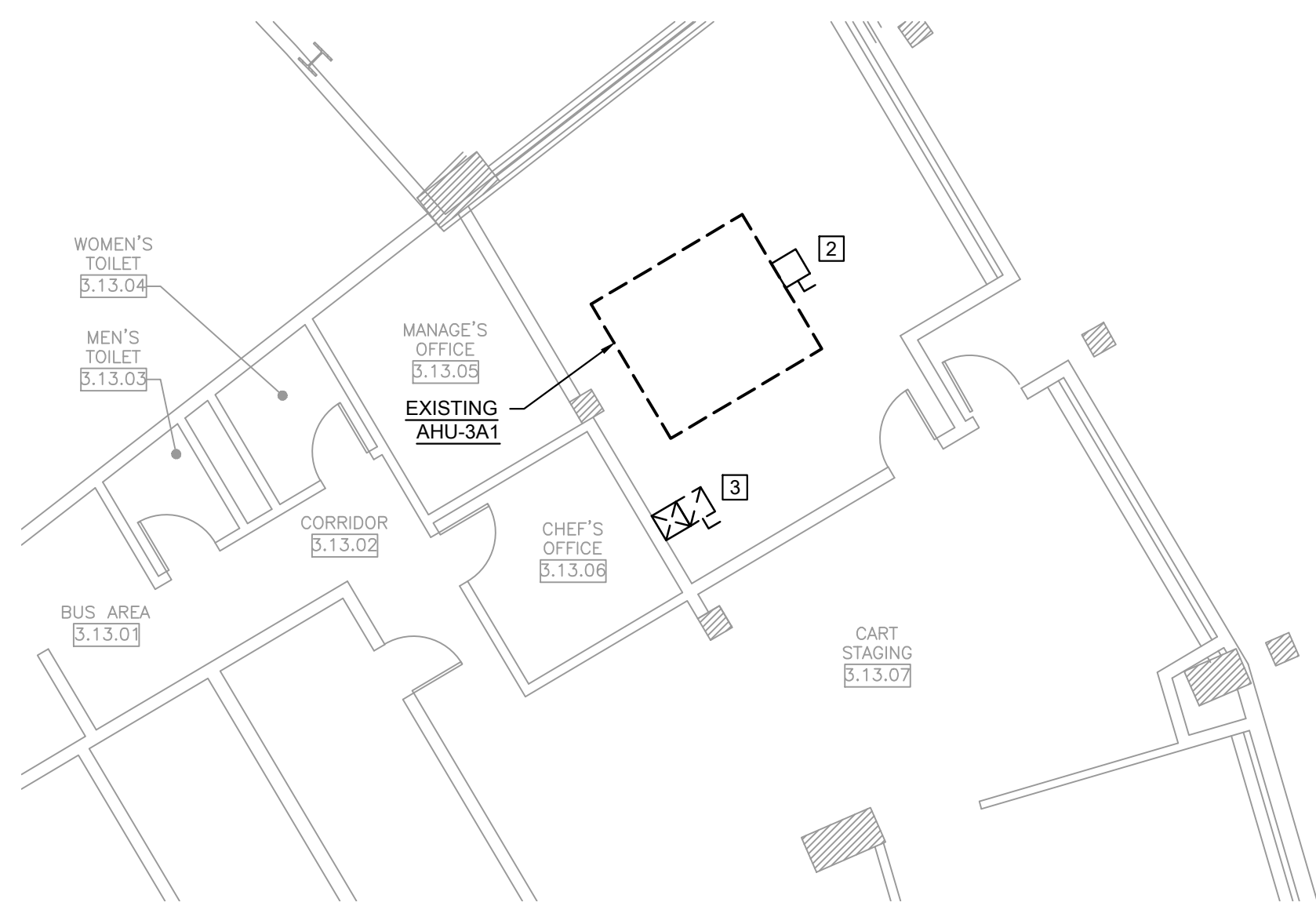
PROJECT:
GUARANTEED RATE FIELD -
HVAC REPLACEMENT PHASE XI
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

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ELECTRICAL DEMOLITION
PLAN - 200 LEVEL OVERALL

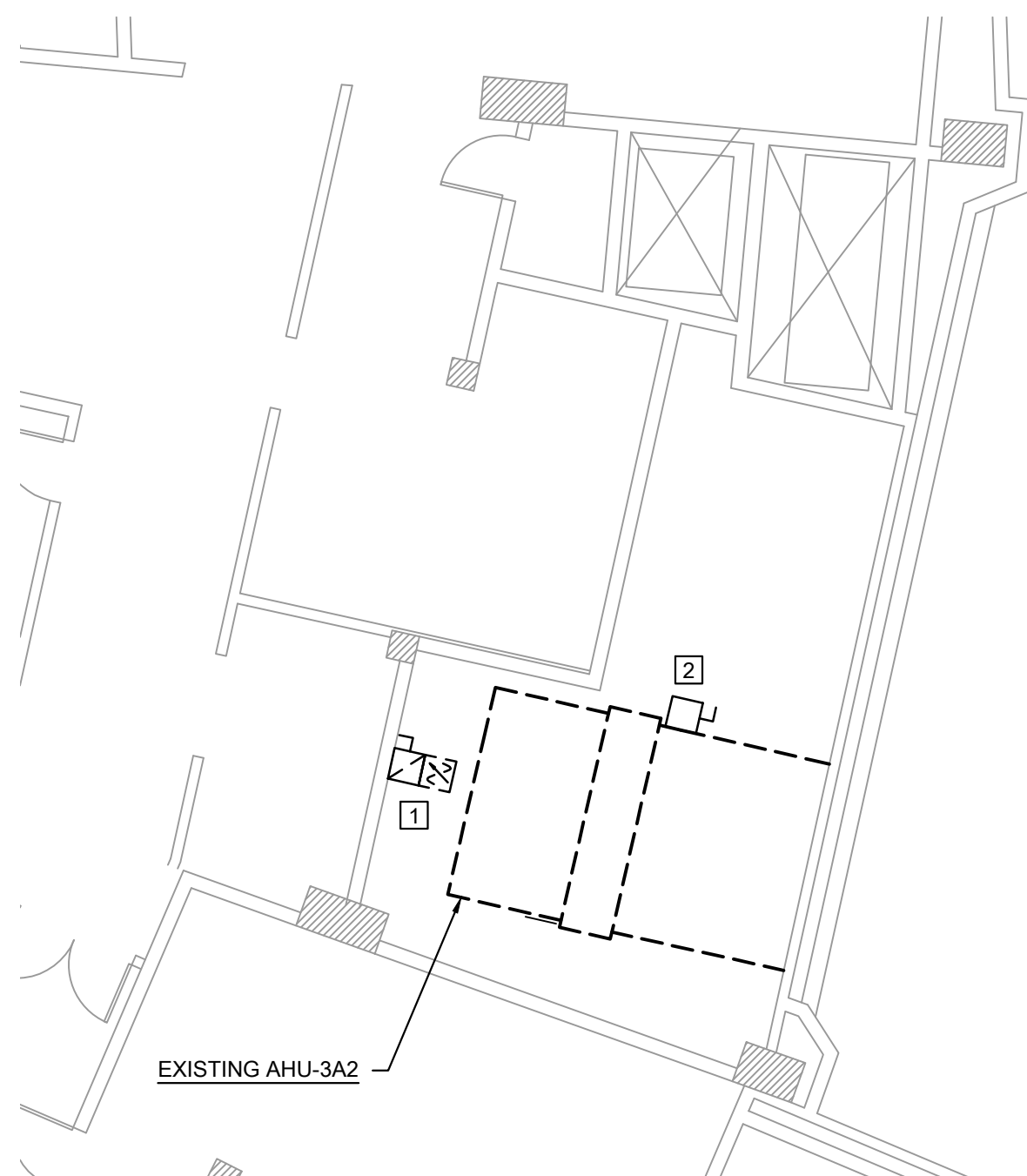
DESIGNED BY: TG
CHECKED BY: BT
PROJECT NO: 21276
SCALE: 1/32" = 1'-0"
SHEET NO:

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ED1.05



1 ELECTRICAL DEMOLITION PLAN - KITCHEN AHU 3A1
SCALE: 1/8" = 1'-0"



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



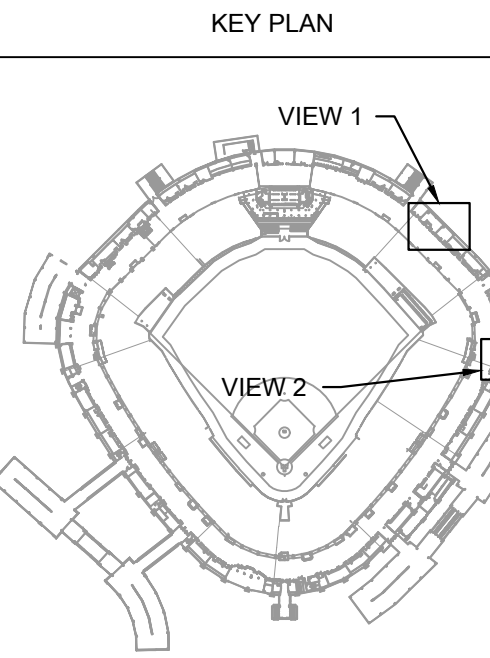
3 ELECTRICAL DEMOLITION PLAN - ROOF
SCALE: 1/8" = 1'-0"

KEYED ELECTRICAL DEMOLITION SHEET NOTES

1. DISCONNECT AND REMOVE EXISTING POWER FOR MECHANICAL EQUIPMENT SHOWN. DISCONNECT AND REMOVE CONDUIT AND WIRES BACK TO THE VARIABLE FREQUENCY DRIVE. EC SHALL MAINTAIN EXISTING FEEDER AND CONDUIT FOR NEW POWER CONNECTION TO NEW VFD. 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 STARTER. EC SHALL MAINTAIN EXISTING FEEDER AND CONDUIT FOR NEW POWER CONNECTION TO NEW VFD. 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.



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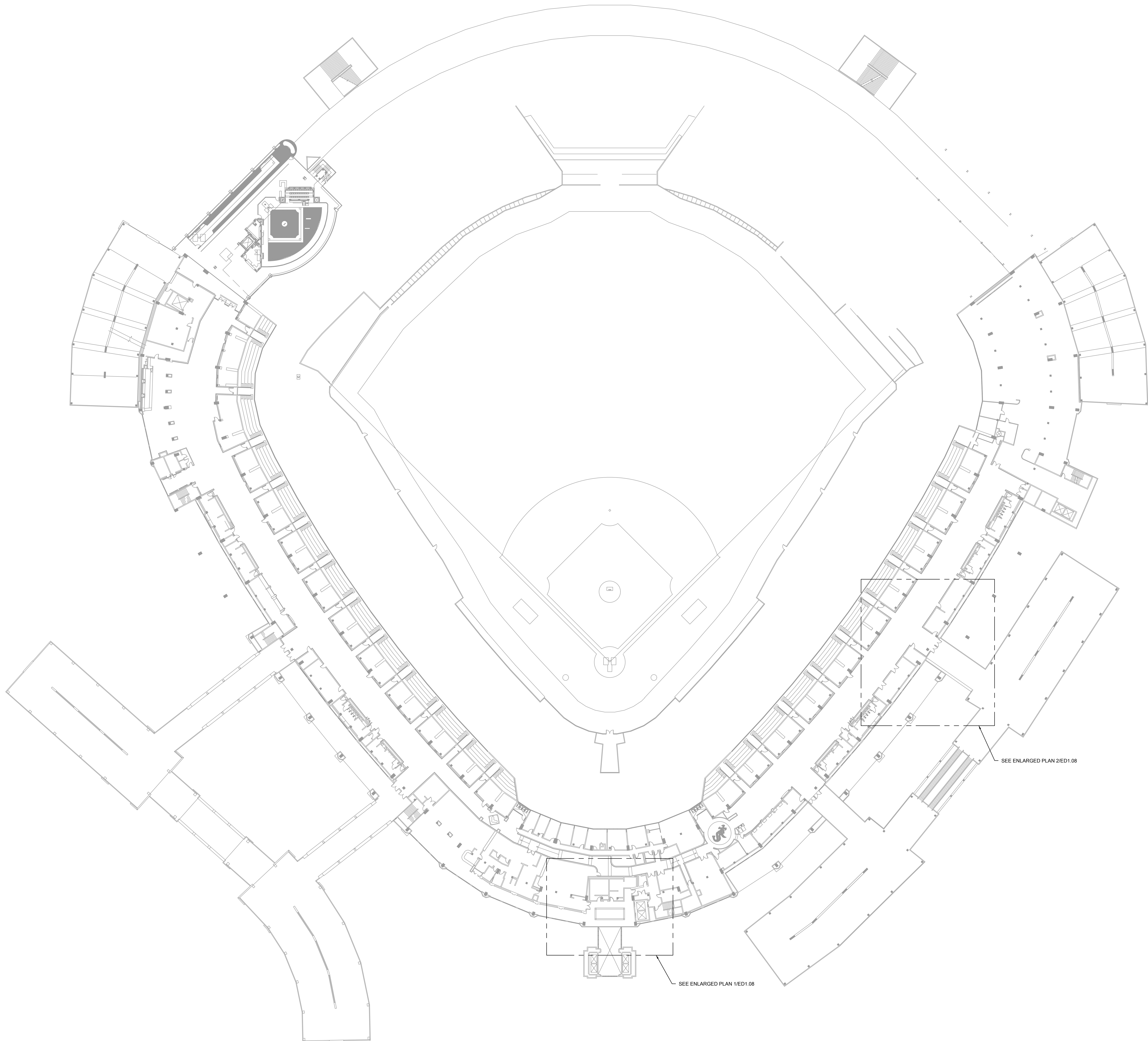
333 W 35TH STREET,
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DRAWING TITLE:
ELECTRICAL DEMOLITION
PLANS - 200 LEVEL ENLARGED
PLANS

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

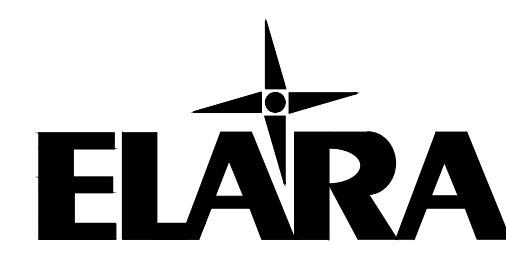
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ED1.06



1 ELECTRICAL DEMOLITION PLAN - 300 LEVEL OVERALL

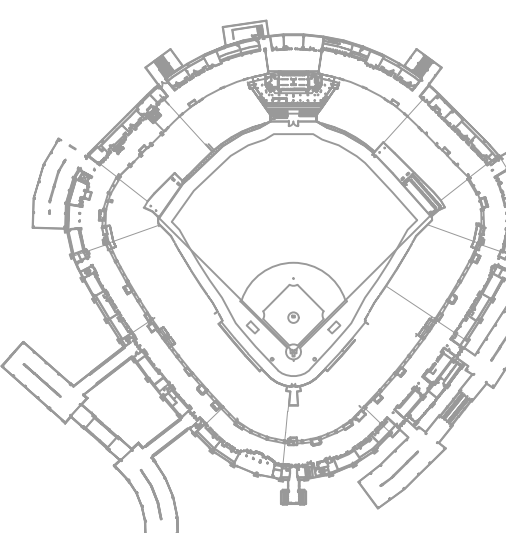
SCALE: 1/32" = 1'-0"
0 16' 32' 64'



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KEY PLAN



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PROJECT:
GUARANTEED RATE FIELD -
HVAC REPLACEMENT PHASE XI

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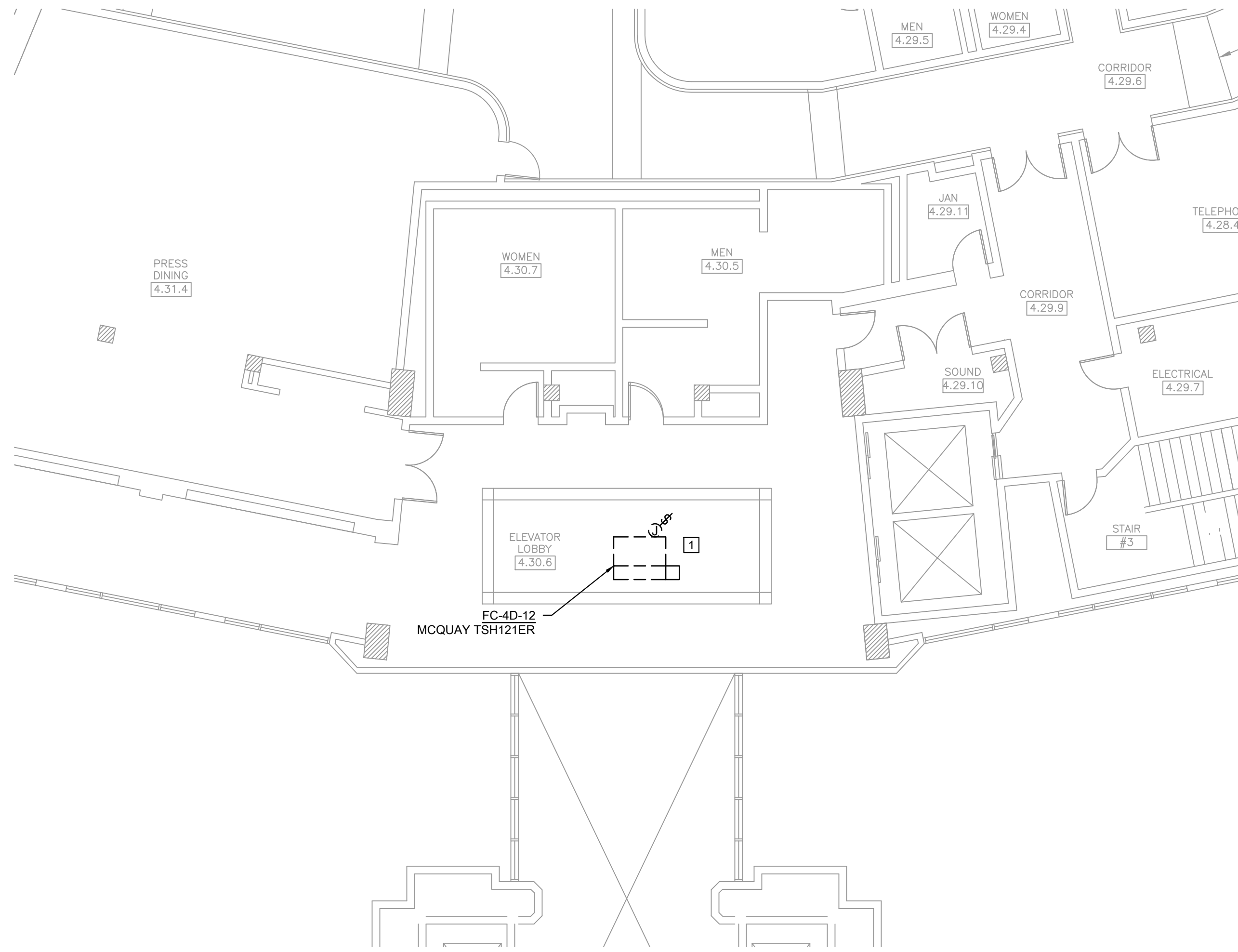
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ELECTRICAL DEMOLITION
PLAN - 300 LEVEL OVERALL

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

SHEET NO.

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ED1.07



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. DISCONNECT AND REMOVE POWER FOR MECHANICAL EQUIPMENT SHOWN. DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRES COMPLETELY FROM THE SOURCE.



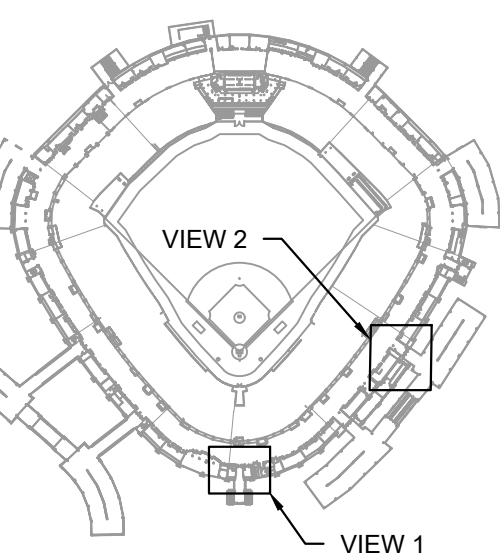
2 ELECTRICAL DEMOLITION PLAN - STORAGE 4.22 & PANTRY 4.20.1
SCALE: 1/8" = 1'-0"



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KEY PLAN



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PROJECT:
GUARANTEED RATE FIELD -
HVAC REPLACEMENT PHASE XI

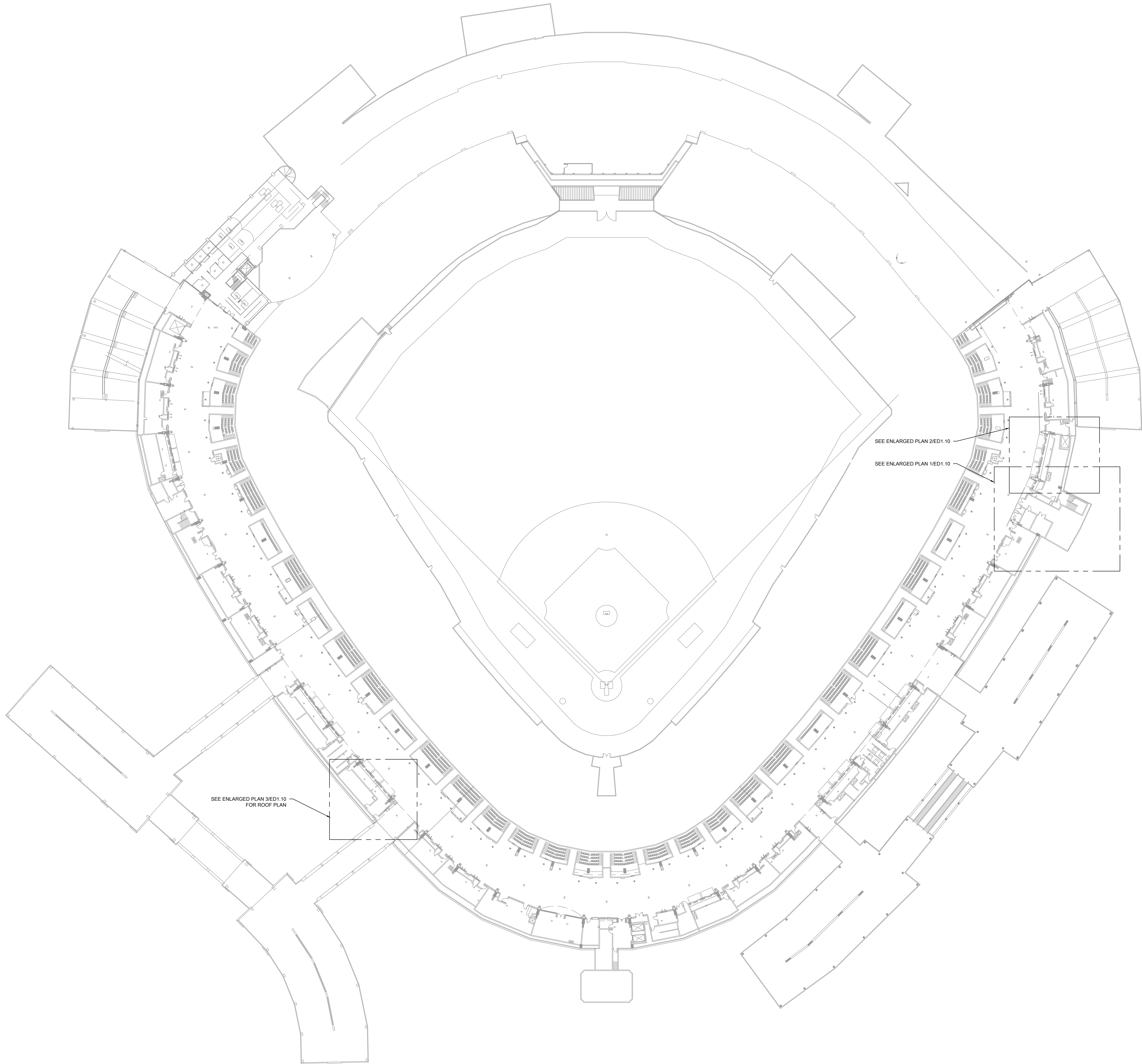
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
ELECTRICAL DEMOLITION
PLANS - 300 LEVEL ENLARGED
PLANS

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

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ED1.08



1 ELECTRICAL DEMOLITION PLAN - 500 LEVEL OVERALL

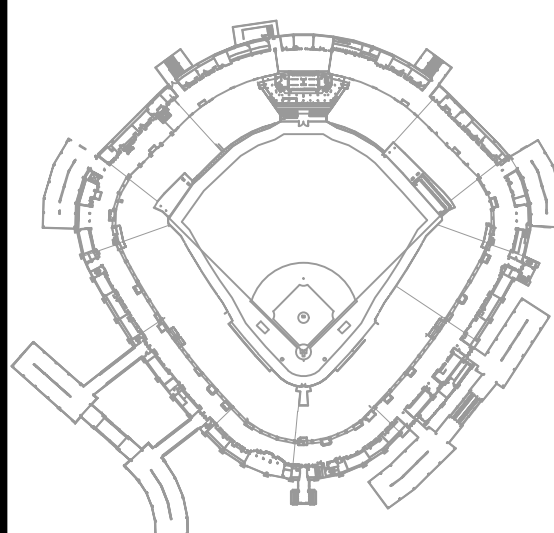
SCALE: 1/32" = 1'-0"



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PROJECT:
GUARANTEED RATE FIELD -
HVAC REPLACEMENT PHASE XI

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

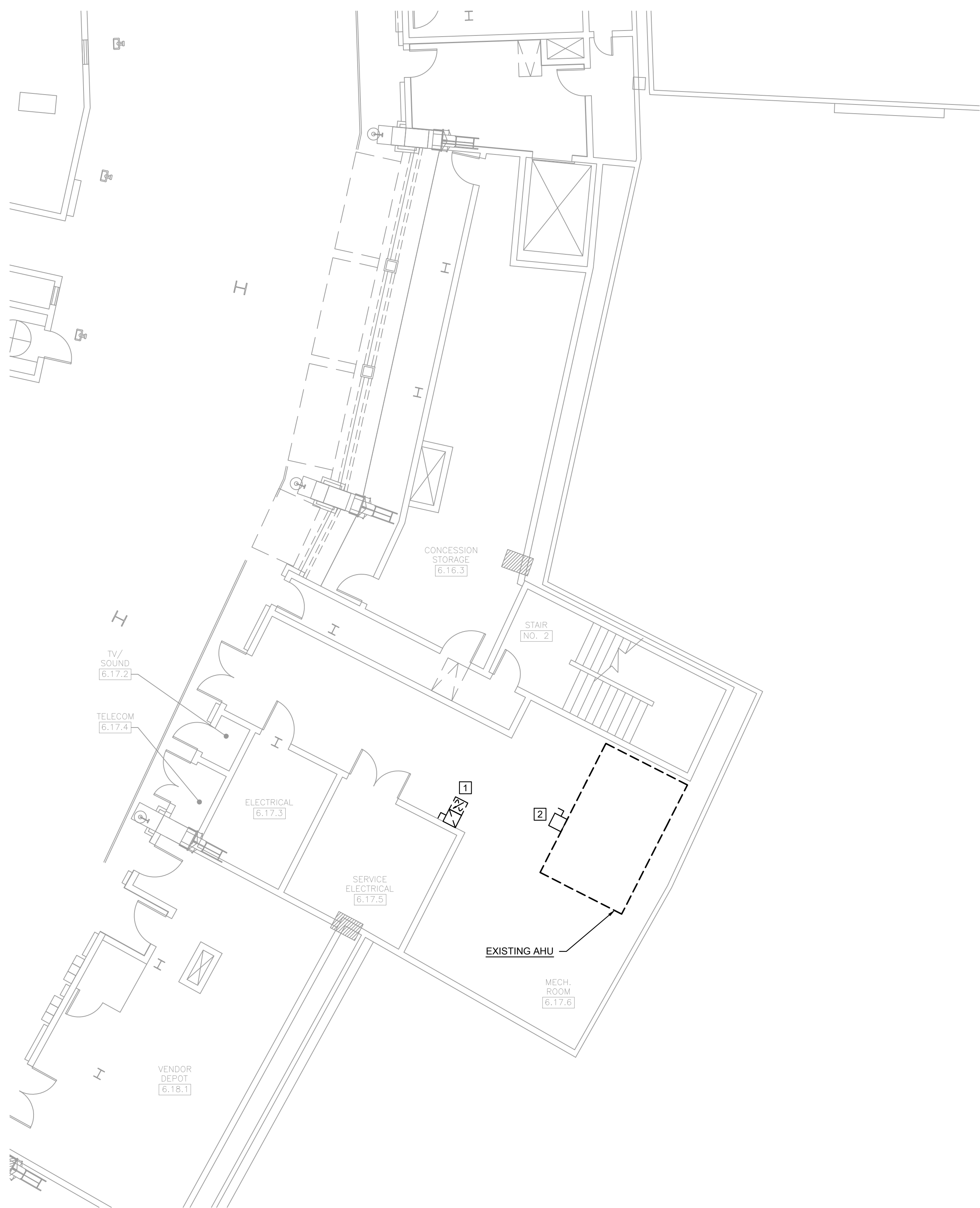
DRAWING TITLE:
ELECTRICAL DEMOLITION
PLAN - 500 LEVEL OVERALL

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

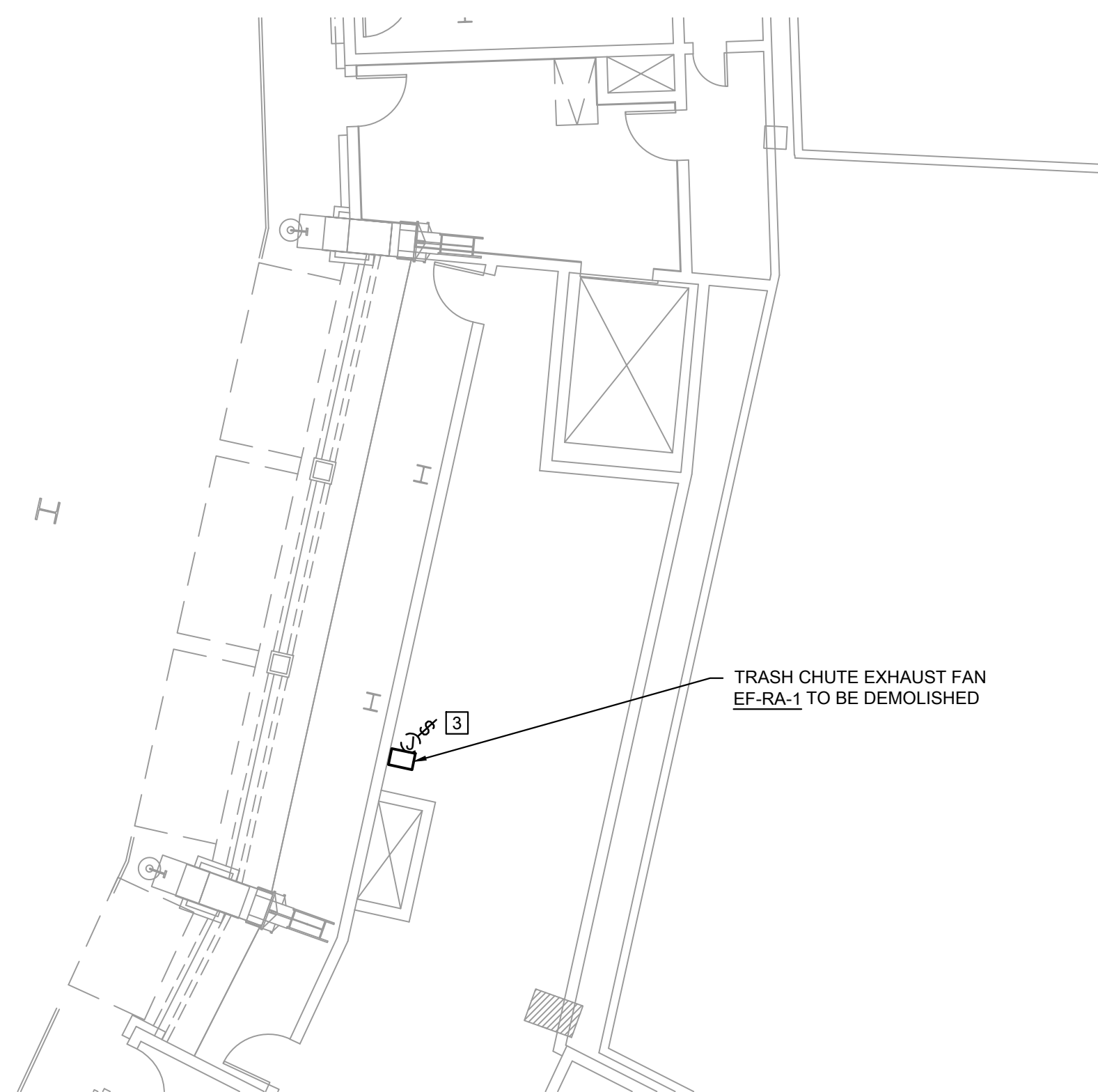
SHEET NO.

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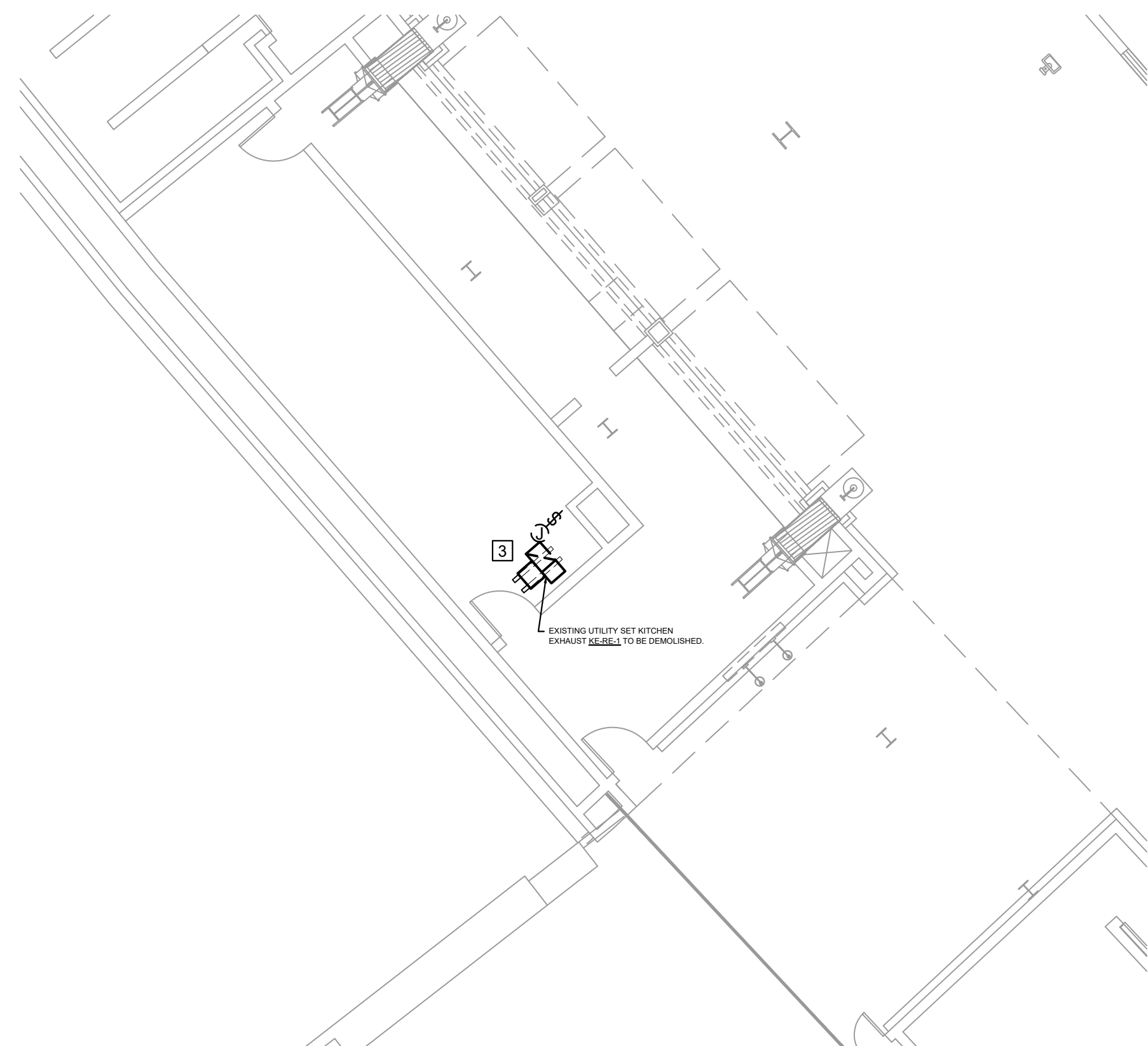
ED1.09



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

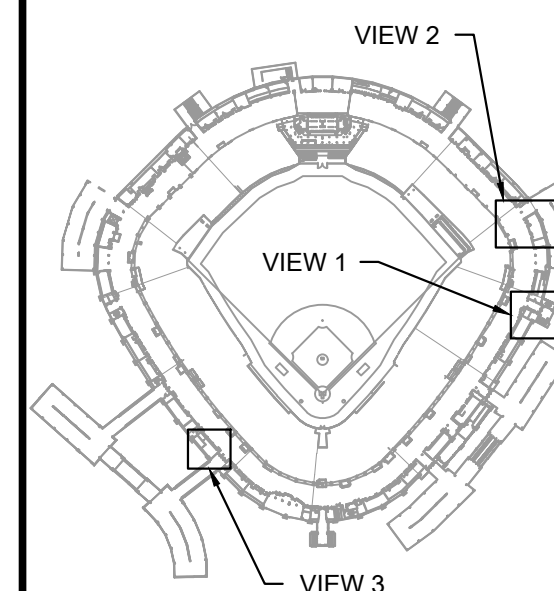
1. DISCONNECT AND REMOVE EXISTING POWER FOR MECHANICAL EQUIPMENT SHOWN. DISCONNECT AND REMOVE CONDUIT AND WIRES BACK TO THE VARIABLE FREQUENCY DRIVE. EC SHALL MAINTAIN EXISTING FEEDER AND CONDUIT FOR NEW POWER CONNECTION TO NEW VFD. REFER TO THE NEW WORK FOR MORE INFORMATION.
2. DISCONNECT AND REMOVE 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 DISCONNECT AND REMOVE THE EXISTING STARTER OR VFD FOR THE EXHAUST FAN, BUT MAINTAIN ALL WIRING AND CONDUIT FOR NEW VFD OR STARTER TO BE CONNECTED DURING THE NEW WORK.



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PROJECT:
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HVAC REPLACEMENT PHASE XI

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

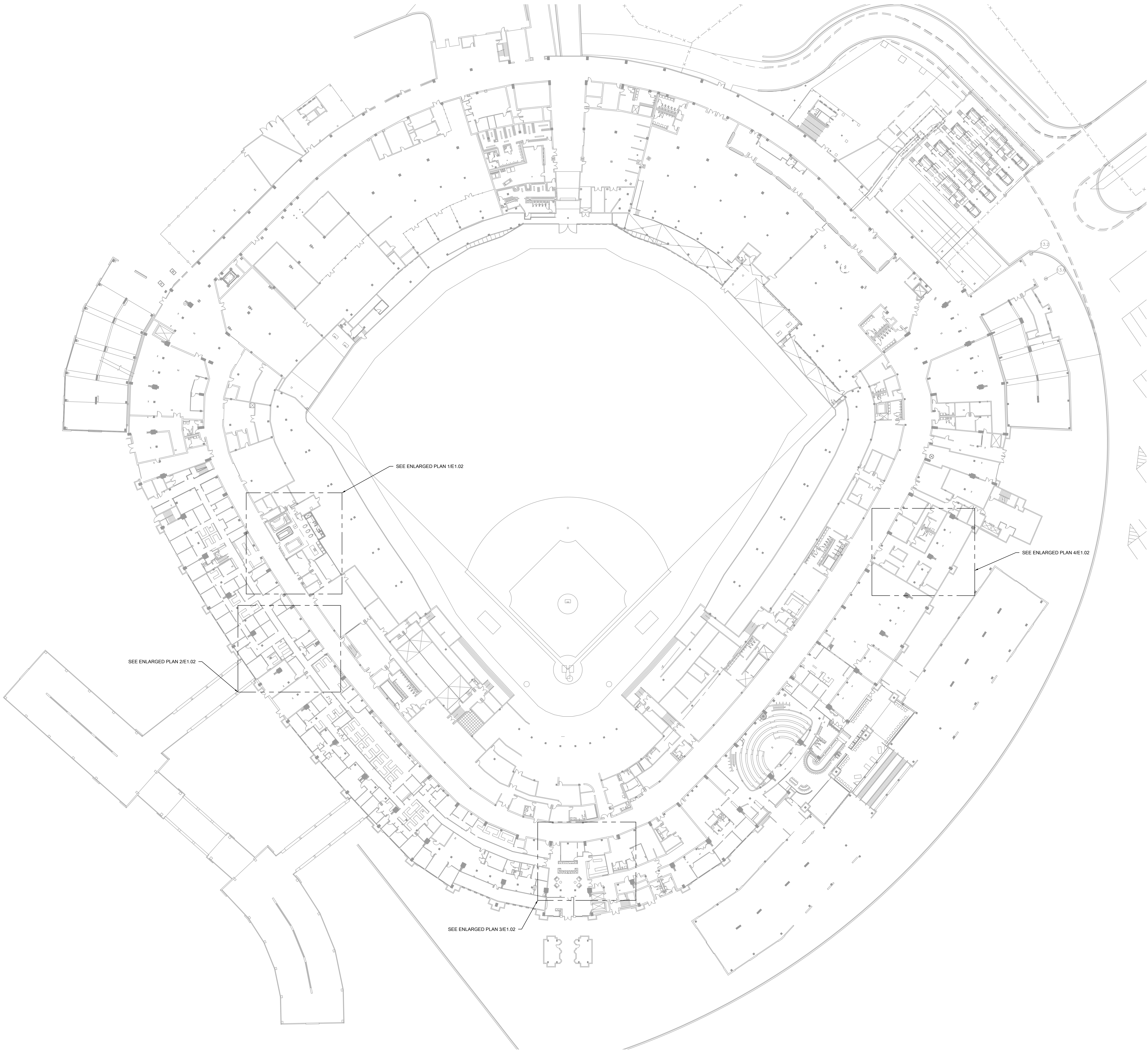
DRAWING TITLE:
ELECTRICAL DEMOLITION
PLANS - 500 LEVEL ENLARGED
PLANS

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

SHEET NO.

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ED1.10



1 ELECTRICAL NEW WORK PLAN - CONCOURSE LEVEL OVERALL

SCALE: 1/32" = 1'-0"
0 16 32 64



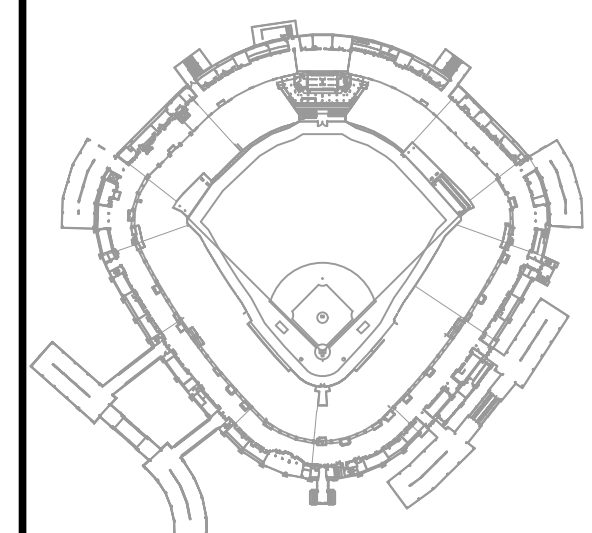
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ILLINOIS SPORTS
FACILITIES AUTHORITY



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PROJECT:
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HVAC REPLACEMENT PHASE XI

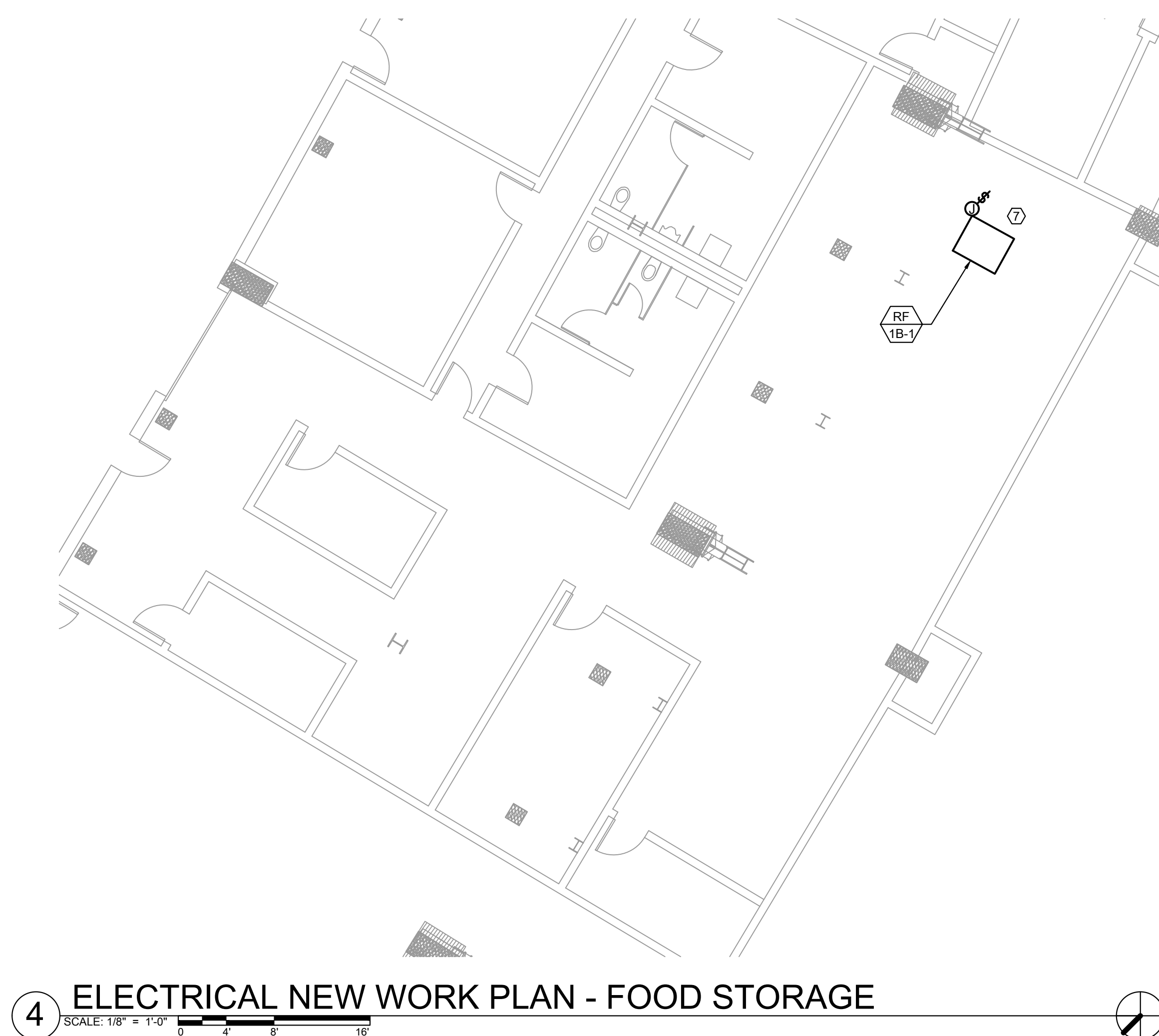
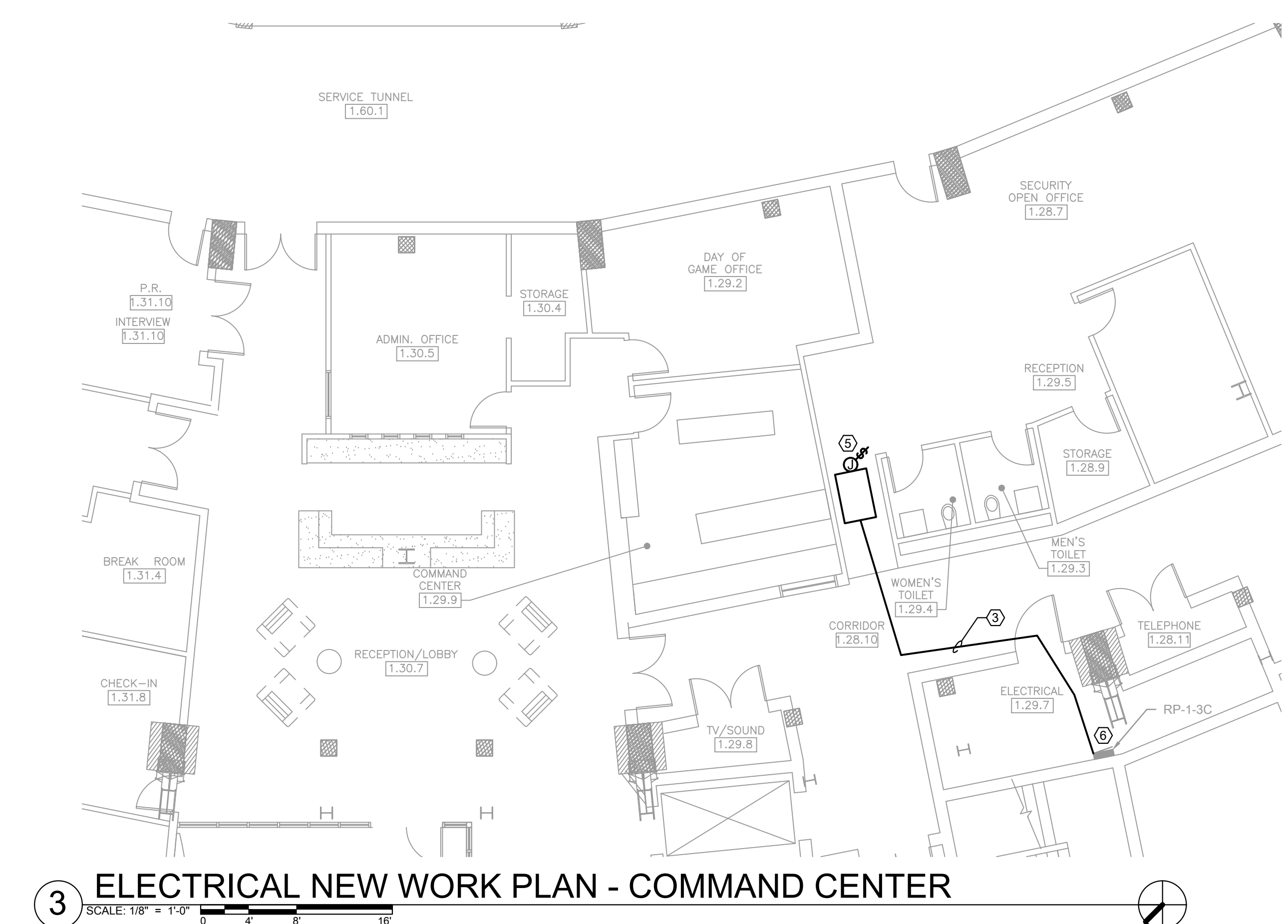
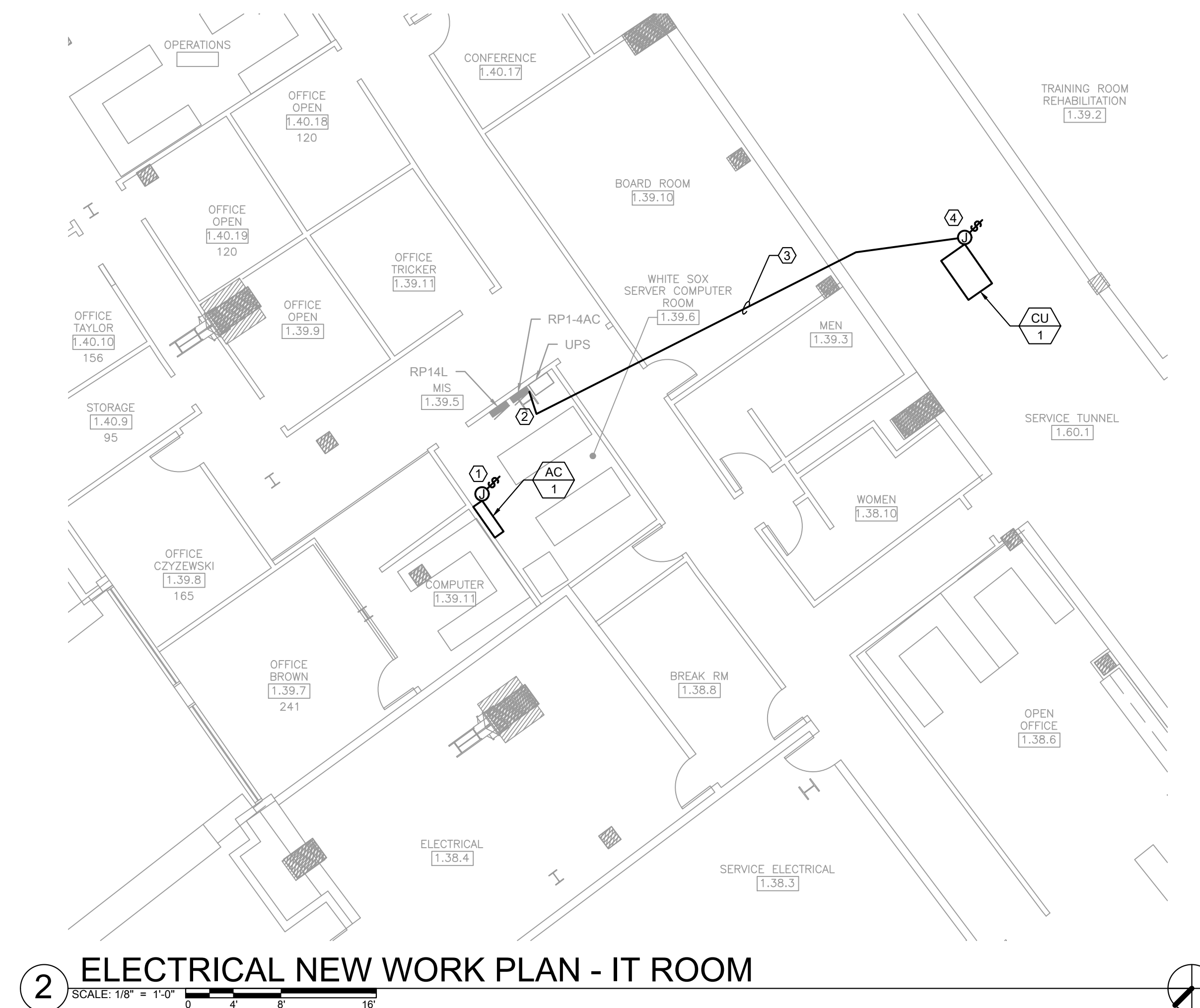
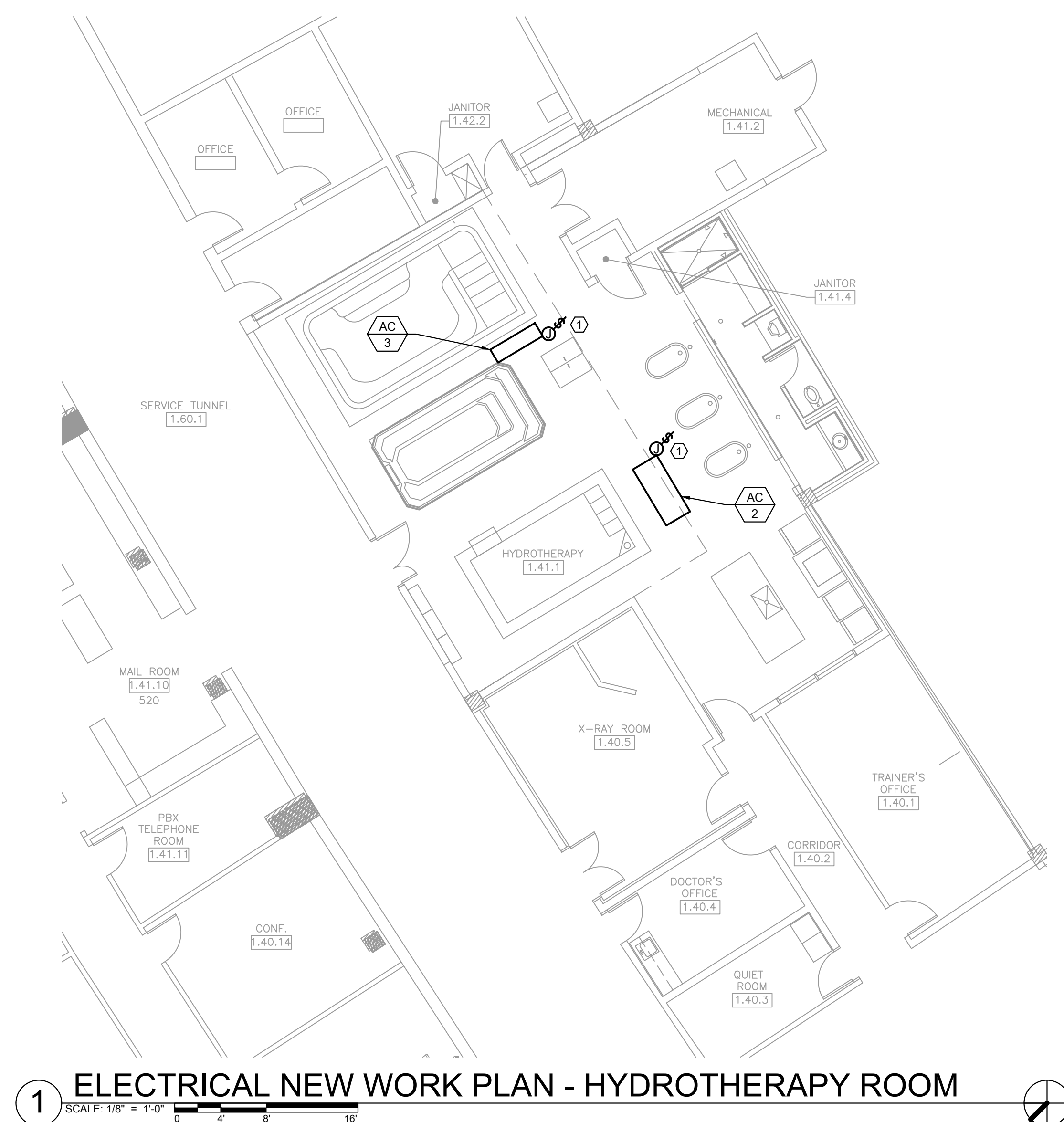
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
ELECTRICAL NEW WORK PLAN
- CONCOURSE LEVEL
OVERALL

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

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E1.01



KEYED ELECTRICAL NEW WORK SHEET NOTES

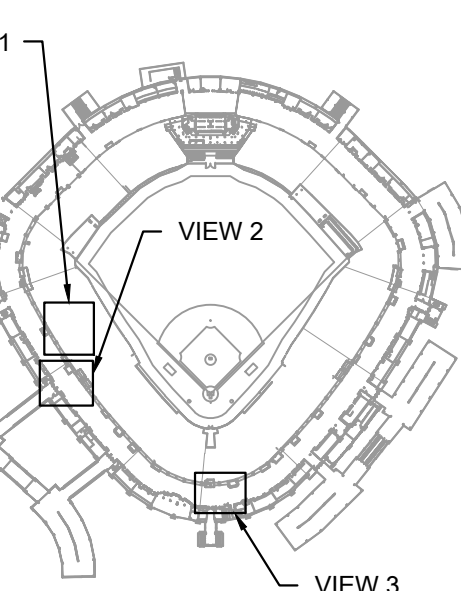
1. FURNISH AND INSTALL NEW POWER FOR MECHANICAL EQUIPMENT VIA THE EXISTING BRANCH CIRCUIT. FURNISH AND INSTALL NEW JUNCTION BOX WITH A SWITCH FOR AIR CONDITIONING UNIT. E.C. SHALL EXTEND EXISTING EXISTING BRANCH CIRCUIT AND CONDUIT AS NECESSARY FOR NEW AIR CONDITIONING UNIT PANEL. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
2. FURNISH AND INSTALL NEW 30A/2P CIRCUIT BREAKER IN LOCATION. R/P-14AC. E.C. SHALL MATCH NEW CIRCUIT BREAKER'S MAKE, MODEL, AND AIC RATING TO THE EXISTING CIRCUIT BREAKERS IN THE PANELBOARD. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
3. FURNISH AND INSTALL NEW ABOVE CEILING CONDUIT AND WIRES FOR NEW MECHANICAL EQUIPMENT. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
4. FURNISH AND INSTALL NEW POWER FOR MECHANICAL EQUIPMENT. FURNISH AND INSTALL NEW JUNCTION BOX WITH A SWITCH AND ASSOCIATED CONDUIT AND WIRES FROM PANELBOARD R/P-14AC. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
5. FURNISH AND INSTALL NEW POWER FOR MECHANICAL EQUIPMENT. FURNISH AND INSTALL NEW JUNCTION BOX WITH A SWITCH AND ASSOCIATED CONDUIT AND WIRES FROM PANELBOARD R/P-1-3C. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
6. E.C. SHALL USE EXISTING SPARE CIRCUIT BREAKER #37 FOR NEW FAN COIL UNIT POWER.
7. FURNISH AND INSTALL NEW POWER FOR MECHANICAL EQUIPMENT VIA THE EXISTING BRANCH CIRCUIT. FURNISH AND INSTALL NEW JUNCTION BOX WITH A SWITCH FOR RETURN FAN. E.C. SHALL EXTEND EXISTING EXISTING BRANCH CIRCUIT AND CONDUIT AS NECESSARY FOR NEW RETURN FAN LOCATION. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.



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PLAN



REVISION:

[illegible]

ECT:
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 C REPLACEMENT PHASE XI

735 N. 35TH STREET,
CHICAGO, ILLINOIS 60616

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

DESIGNED BY: TG

BOOKED BY: BT

ECT NO: 21276

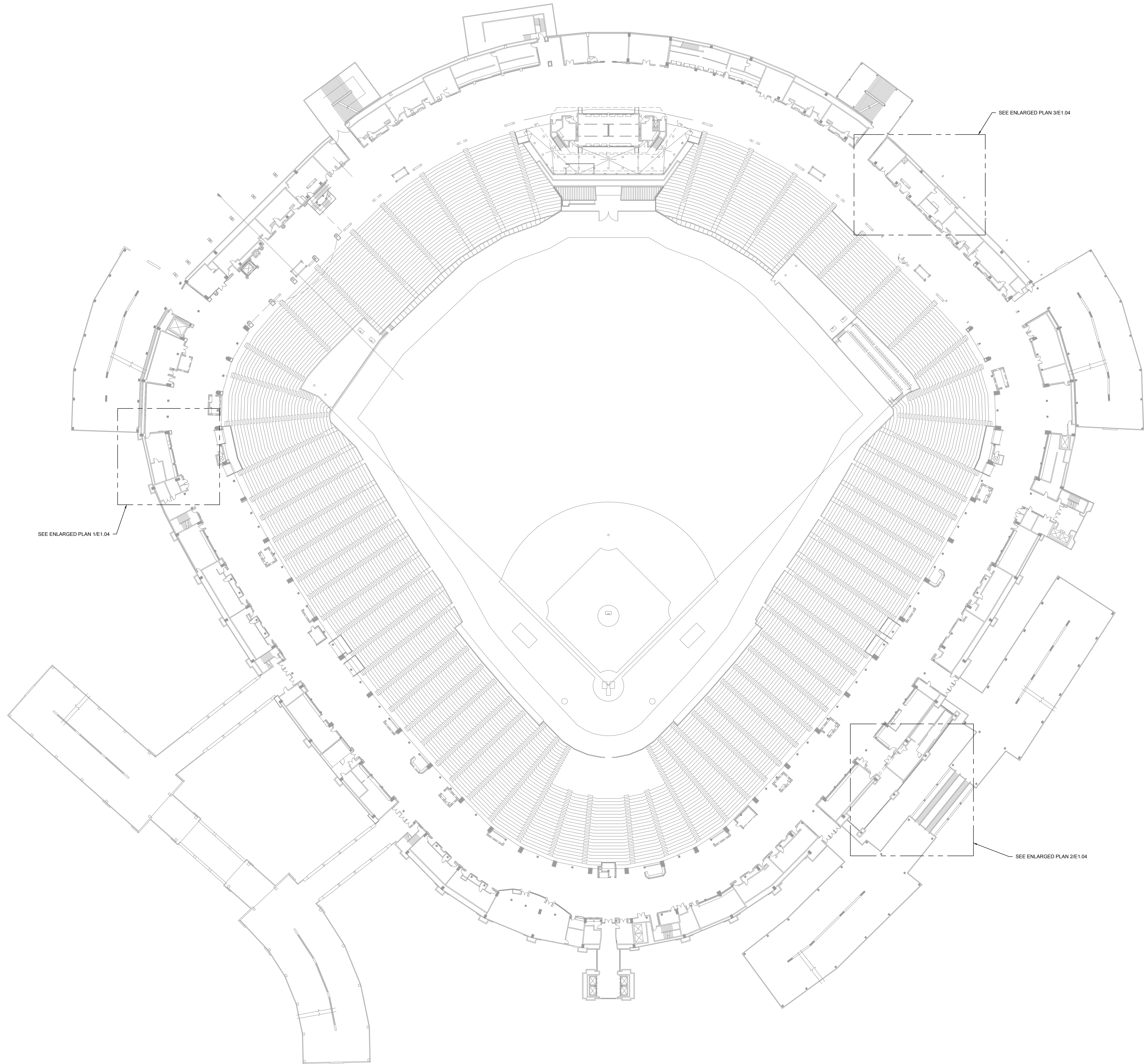
E: $1/8" = 1'-0"$

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E1.02



1 ELECTRICAL NEW WORK PLAN - 100 LEVEL OVERALL

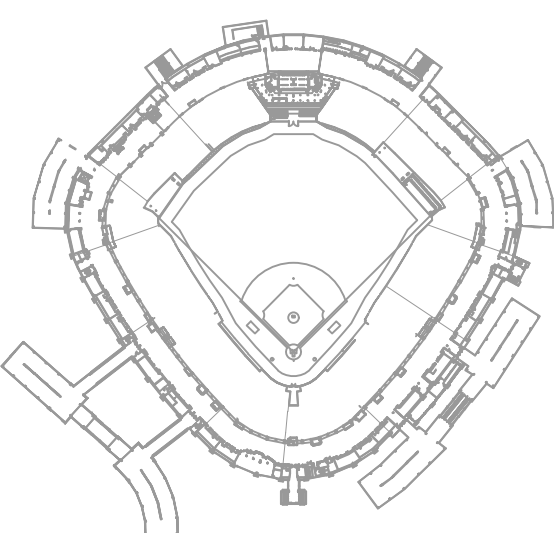
SCALE: 1/32" = 1'-0"
0 16 32 64



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PROJECT:
GUARANTEED RATE FIELD -
HVAC REPLACEMENT PHASE XI

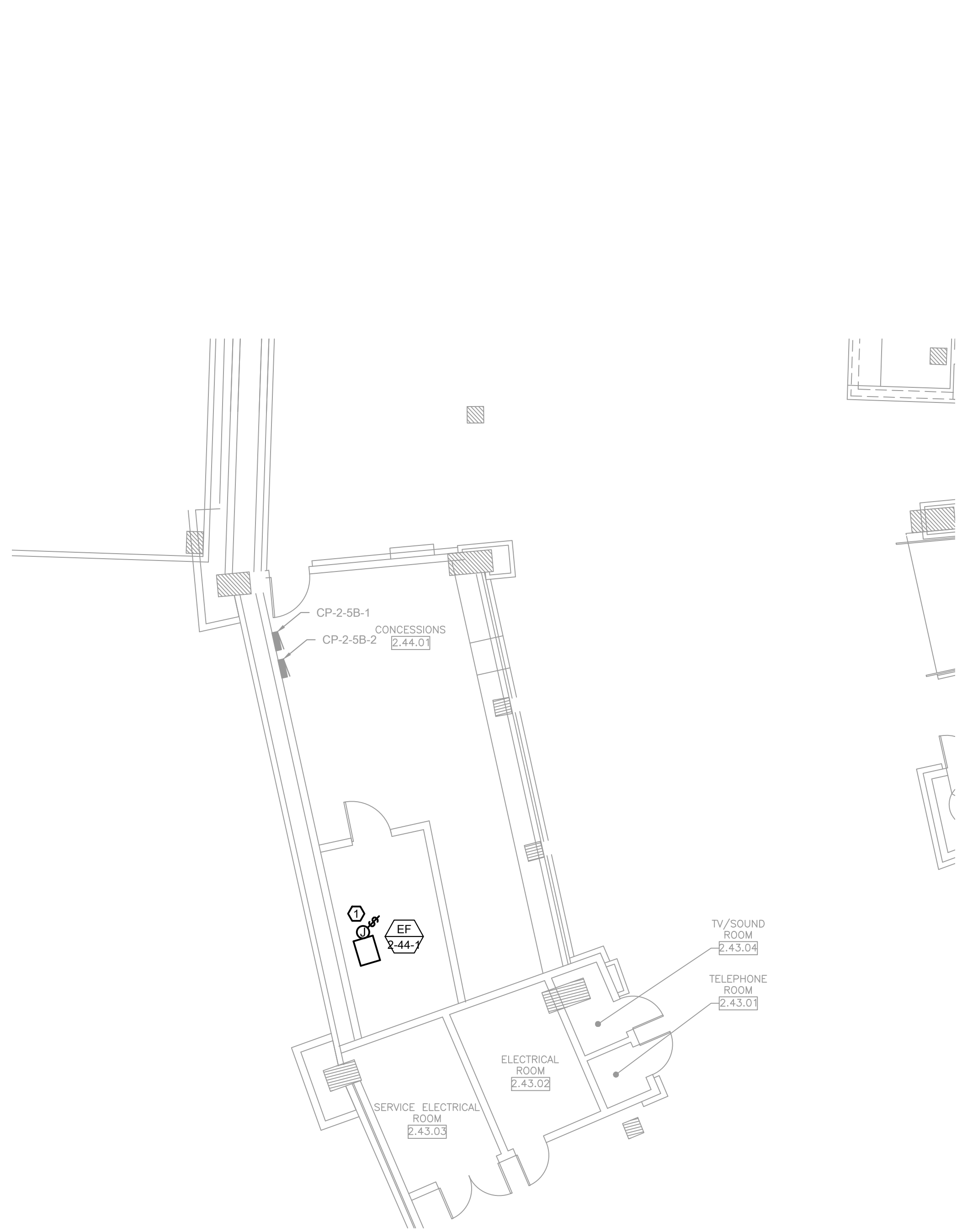
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
ELECTRICAL NEW WORK PLAN
- 100 LEVEL OVERALL

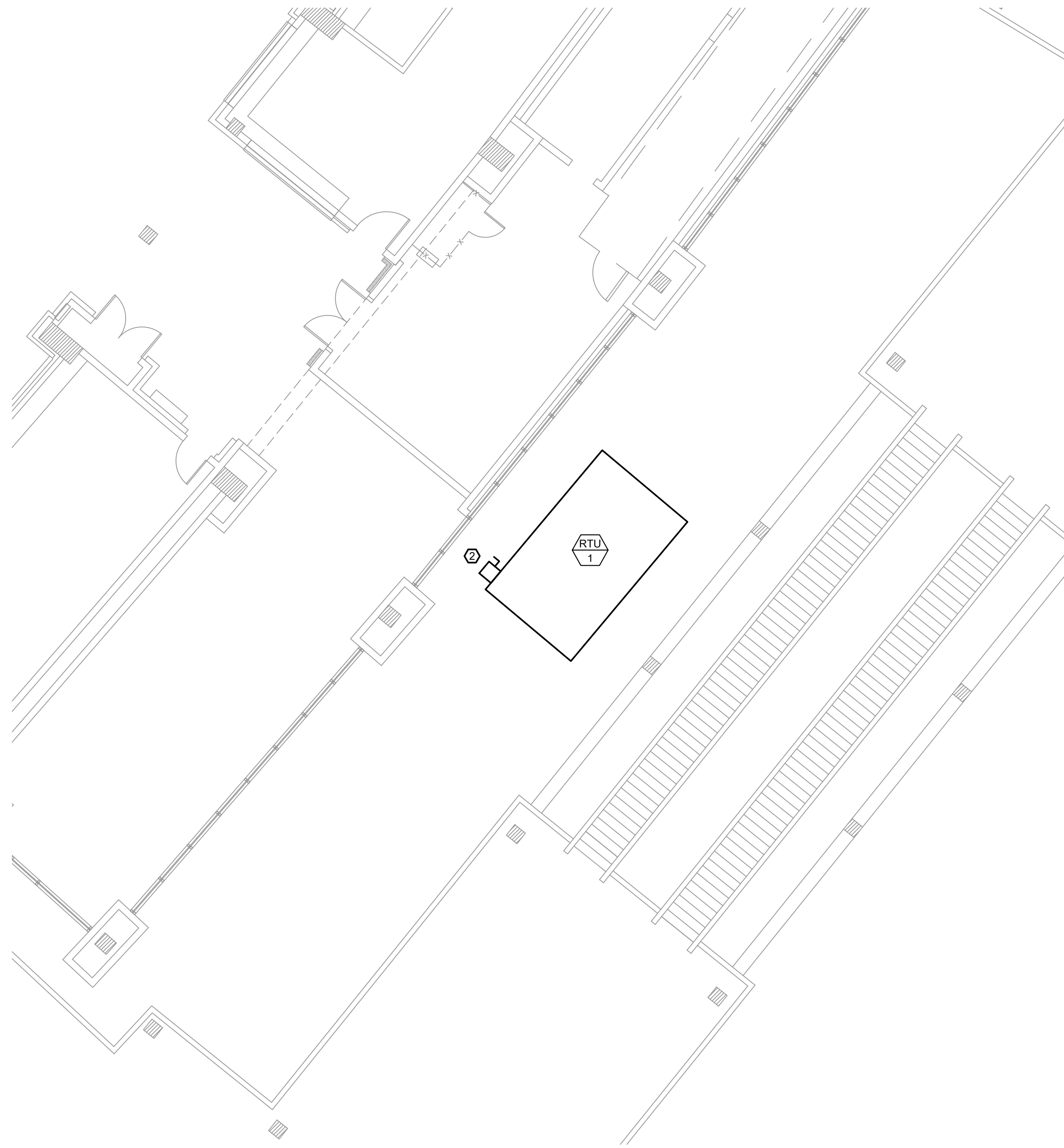
DESIGNED BY:	TG
CHECKED BY:	BT
PROJECT NO:	21276
SCALE:	1/32" = 1'-0"
SHEET NO.	

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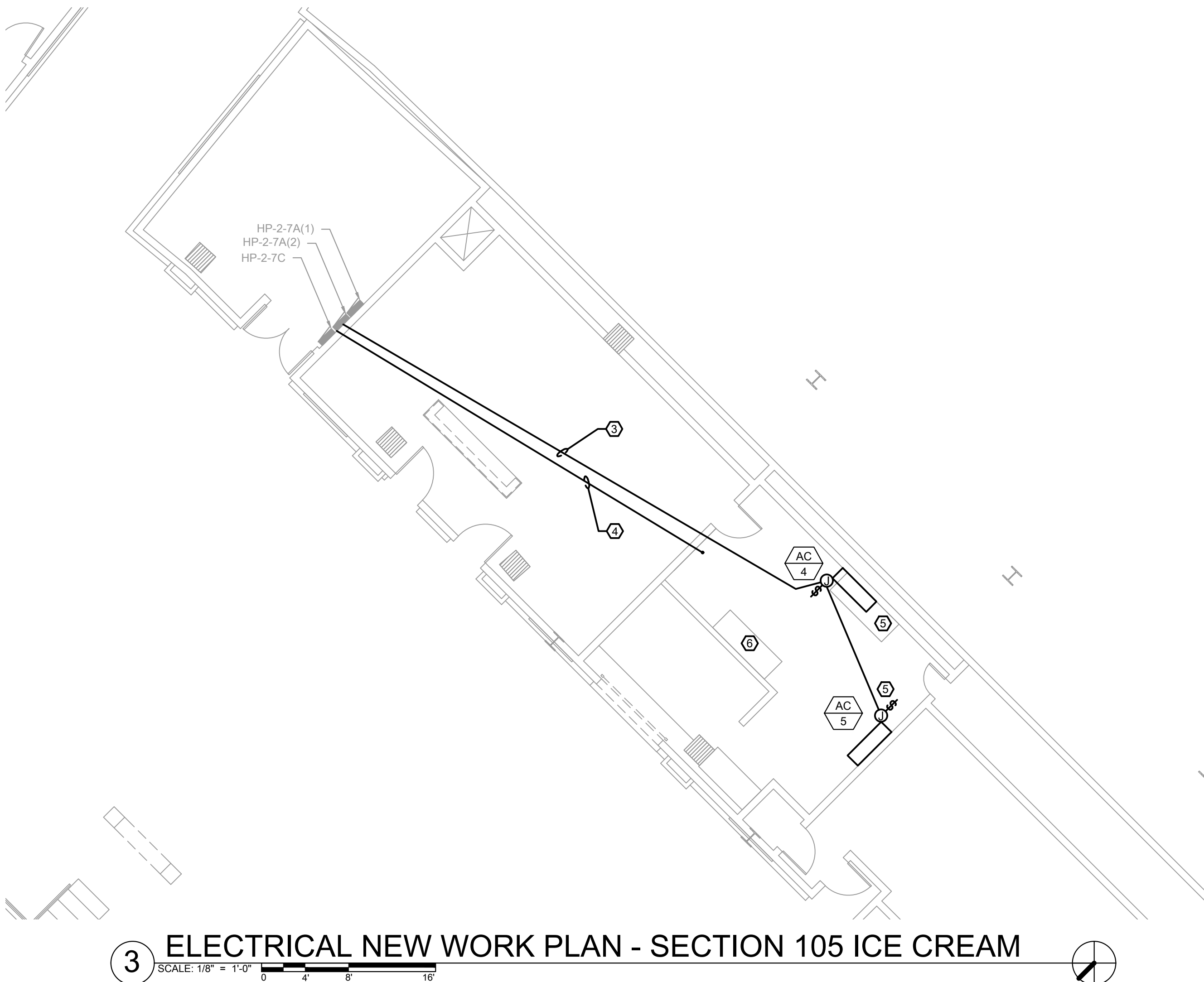
E1.03



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

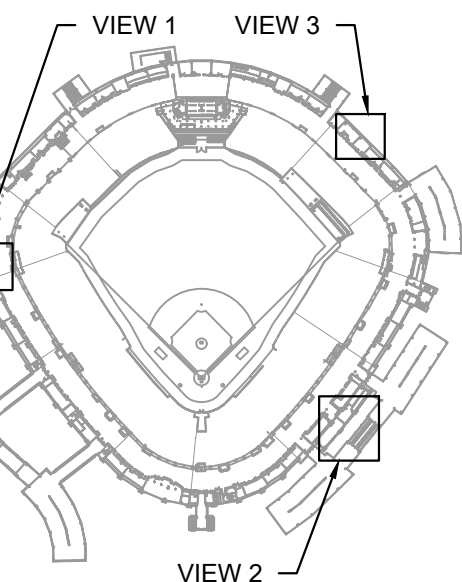
- FURNISH AND INSTALL NEW POWER FOR MECHANICAL EQUIPMENT VIA THE EXISTING BRANCH CIRCUIT. FURNISH AND INSTALL NEW JUNCTION BOX WITH A SWITCH FOR EXHAUST FAN. EC SHALL EXTEND EXISTING BRANCH CIRCUIT AND CONDUIT AS NECESSARY FOR NEW EXHAUST FAN LOCATION. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR 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. EC SHALL FURNISH AND INSTALL NEW 200A DISCONNECT SWITCH FOR 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 15A, 208V/1P CIRCUIT BREAKER IN EXISTING PANELBOARD FOR NEW BRANCH CIRCUIT.
- 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 CONDENSING UNIT. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION. FURNISH AND INSTALL NEW 30A, 208V/1P CIRCUIT BREAKER IN EXISTING PANELBOARD FOR NEW BRANCH CIRCUIT. EC SHALL CORE THROUGH THE CEILING FOR NEW CONDENSING UNIT POWER. EC SHALL SCAN CEILING PRIOR TO CORING.
- 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 POWER FOR NEW EXHAUST FAN. EC SHALL FURNISH AND INSTALL POWER FROM PANEL HP-2-7A(1) SHOWN ON PLAN. FURNISH AND INSTALL NEW 20A/3P CIRCUIT BREAKER FOR NEW EXHAUST FAN. FURNISH AND INSTALL NEW 3 HP VFD WITHIN ELECTRICAL ROOM.



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PROJECT:
GUARANTEED RATE FIELD -
HVAC REPLACEMENT PHASE XI

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CHICAGO, ILLINOIS 60616

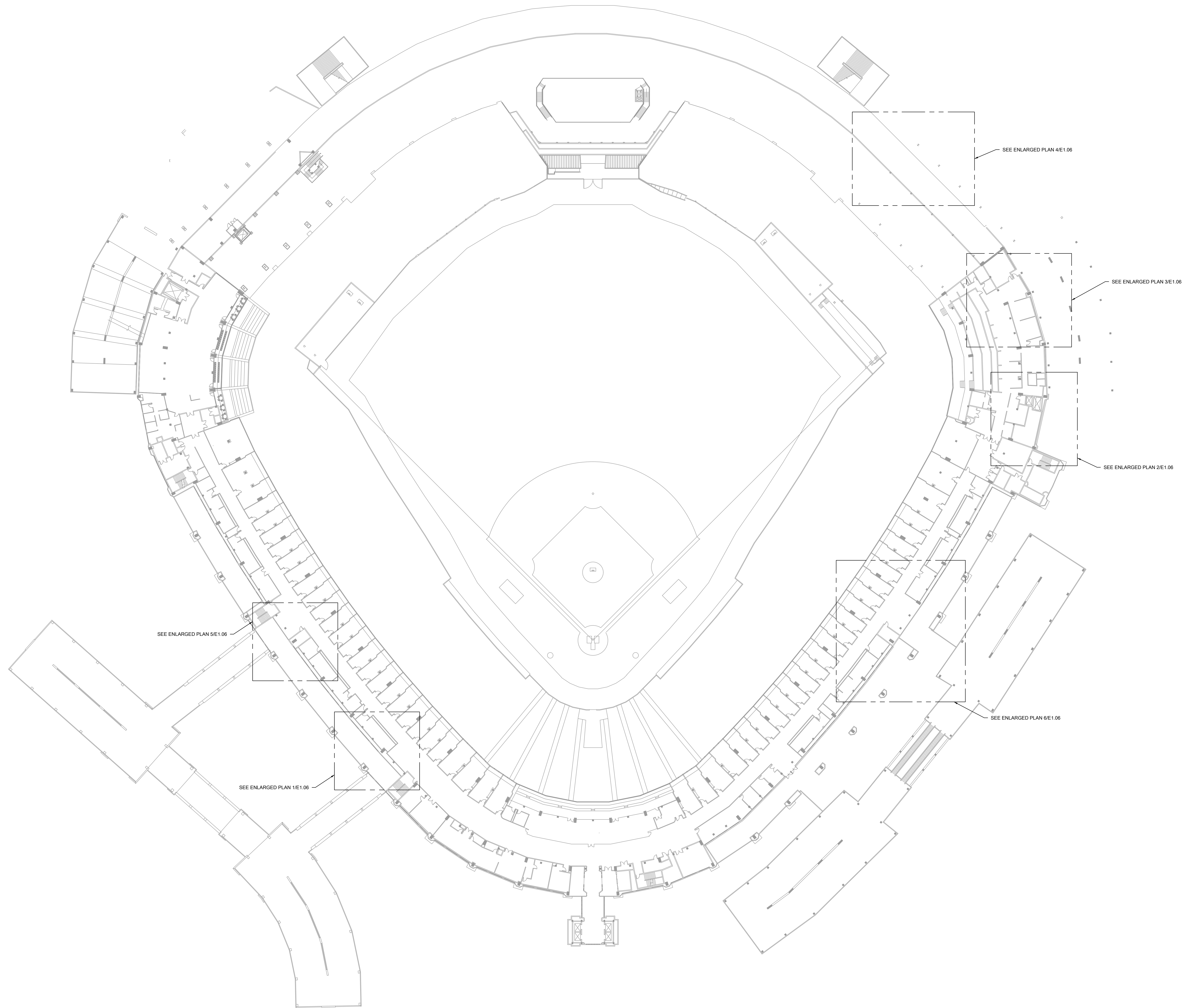
DRAWING TITLE:
ELECTRICAL NEW WORK
PLANS - 100 LEVEL ENLARGED
PLANS

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

SHEET NO.

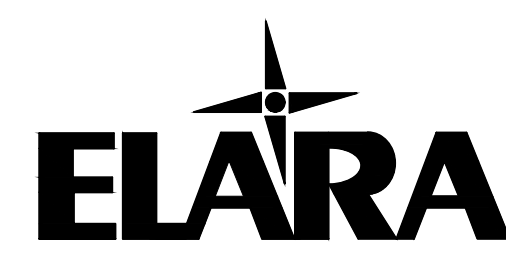
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E1.04



1 ELECTRICAL NEW WORK PLAN - 200 LEVEL OVERALL

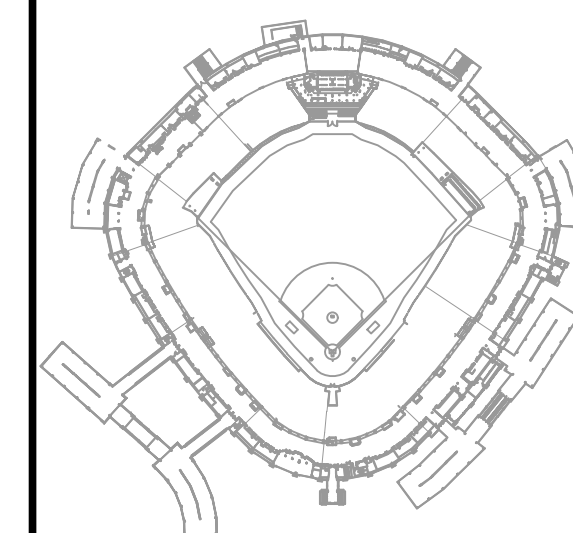
SCALE: 1/32" = 1'-0"
0 16' 32' 64'



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HVAC REPLACEMENT PHASE XI

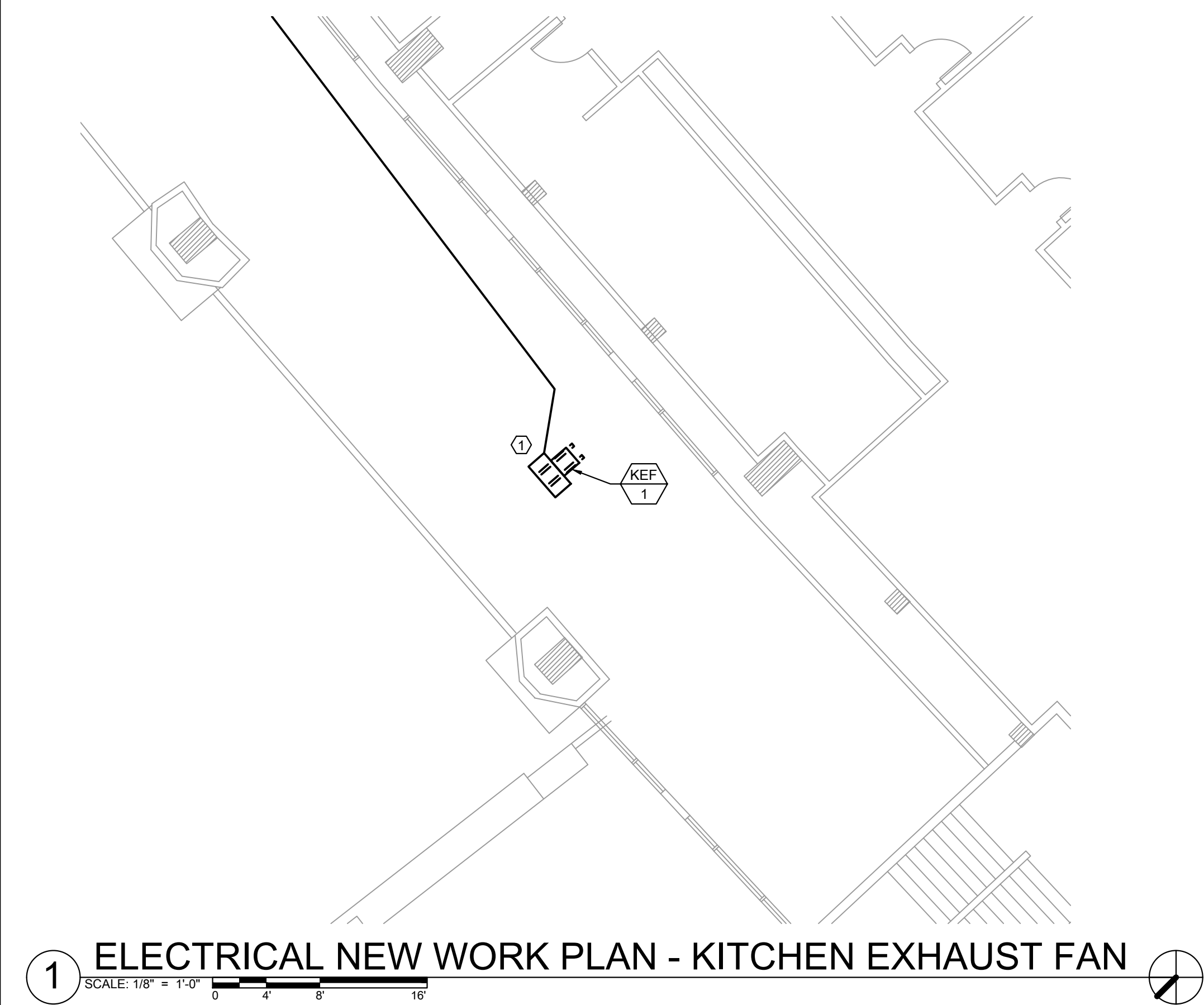
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
ELECTRICAL NEW WORK PLAN
- 200 LEVEL OVERALL

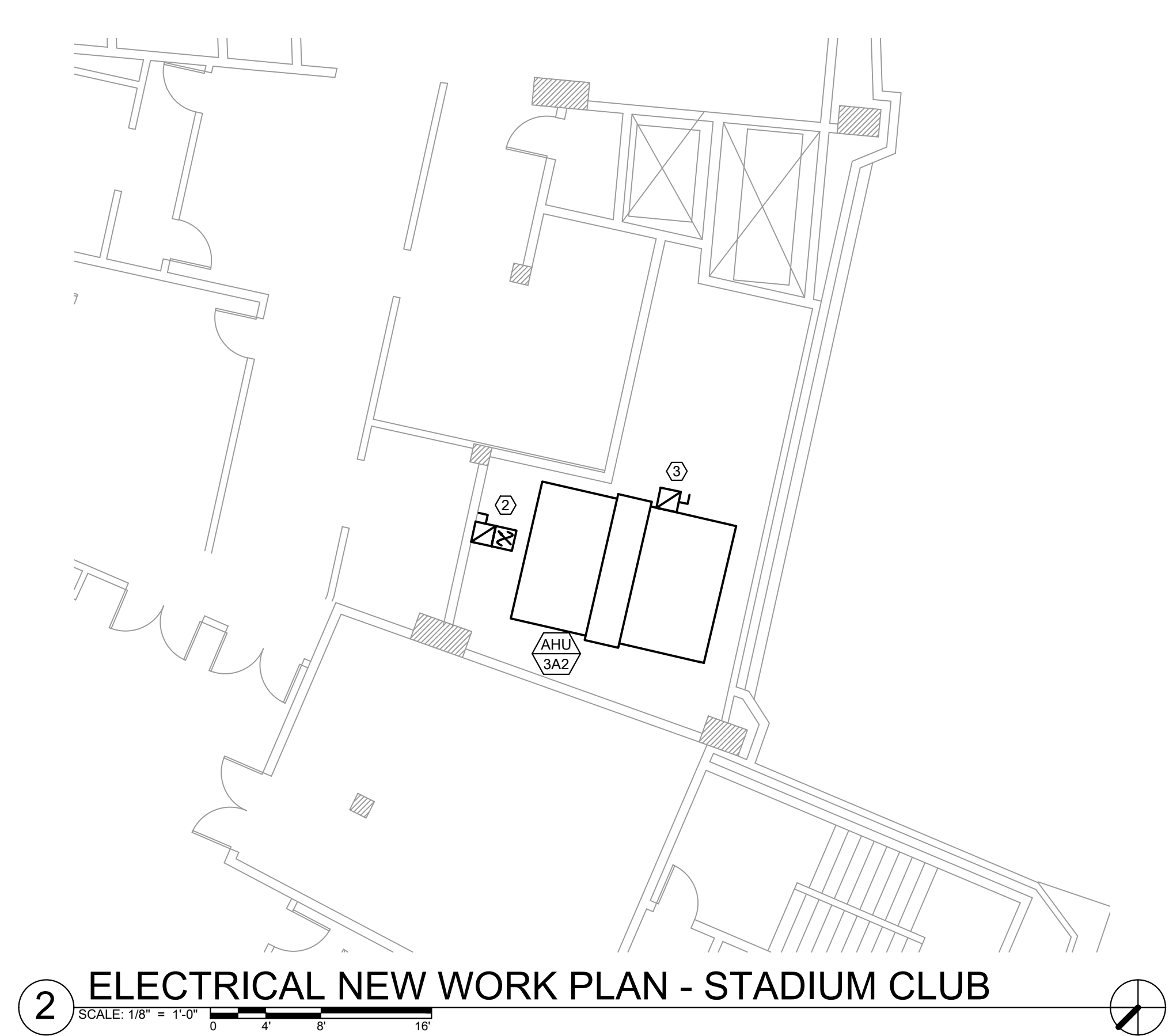
DESIGNED BY:	TG
CHECKED BY:	BT
PROJECT NO:	21276
SCALE:	1/32" = 1'-0"
SHEET NO.	

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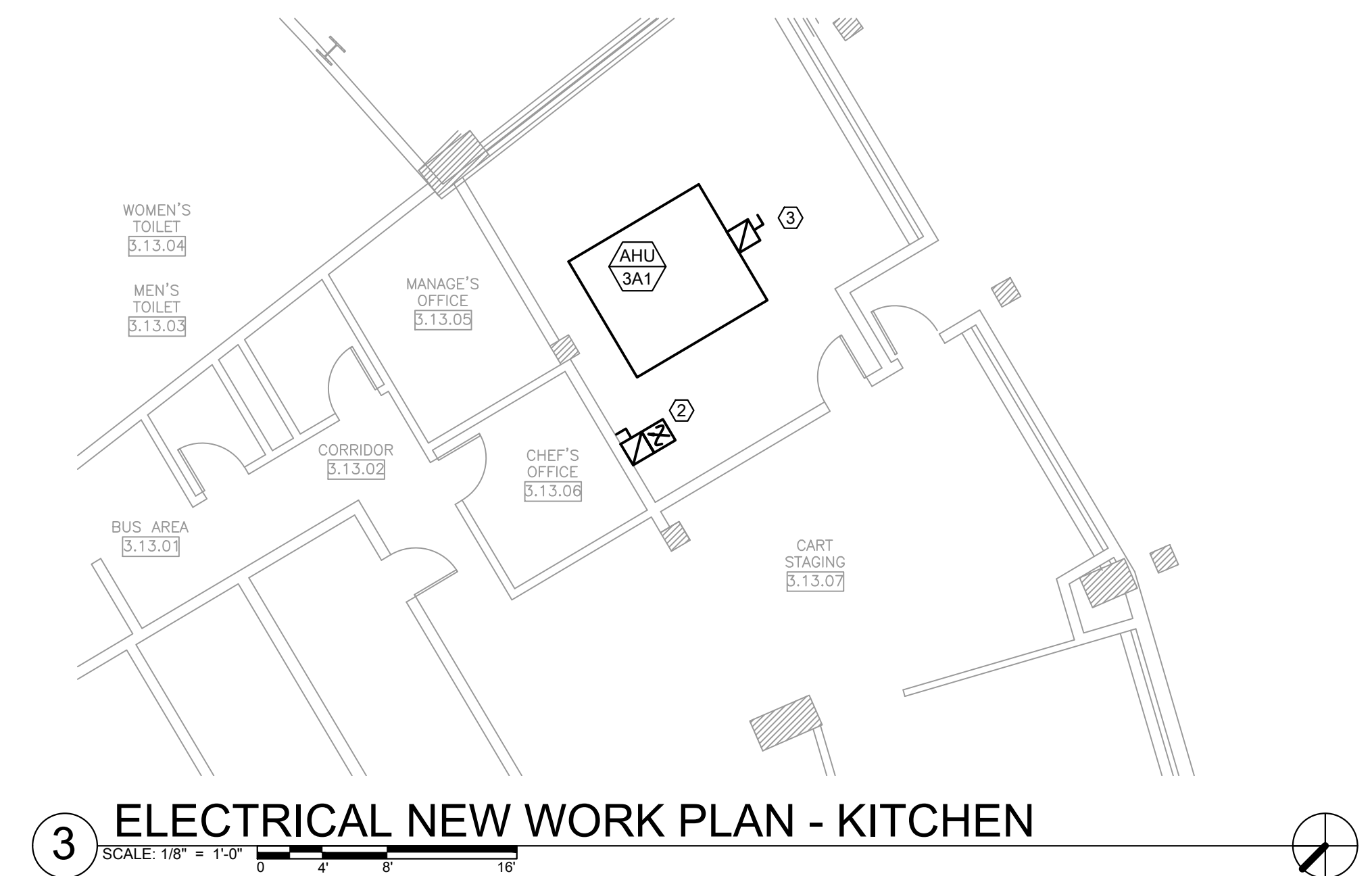
E1.05



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



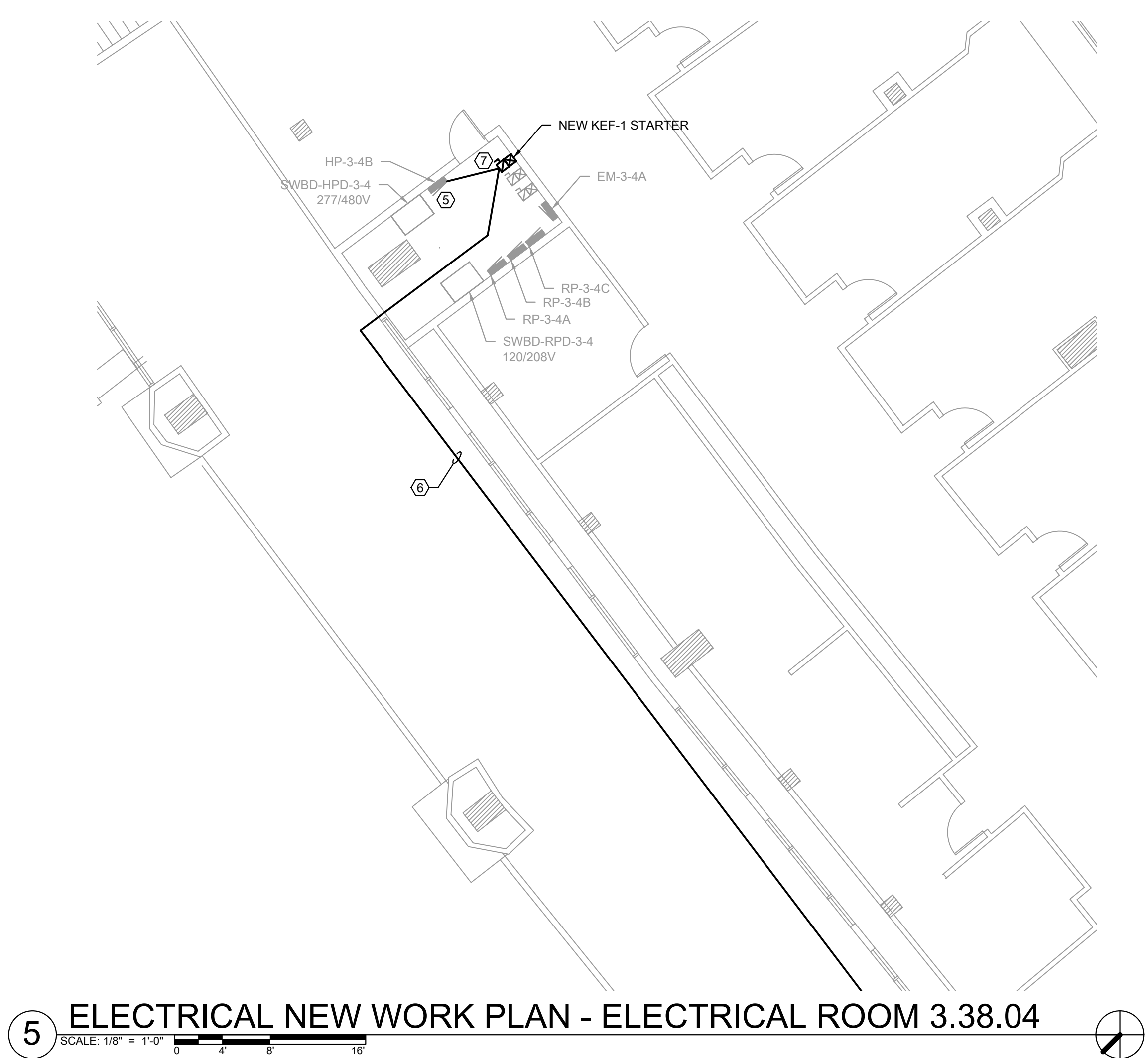
2 ELECTRICAL NEW WORK PLAN - STADIUM CLUB
SCALE: 1/8" = 1'-0"



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



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

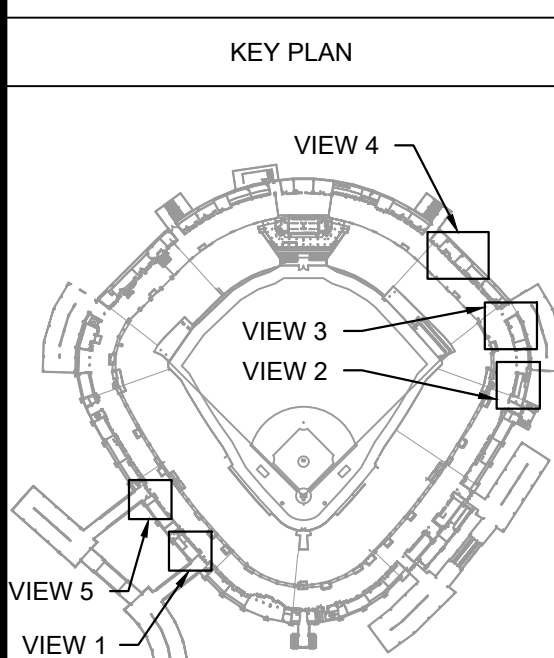


5 ELECTRICAL NEW WORK PLAN - ELECTRICAL ROOM 3.38.04
SCALE: 1/8" = 1'-0"



6 ELECTRICAL NEW WORK PLAN - ROOF
SCALE: 1/8" = 1'-0"

KEYED ELECTRICAL NEW WORK SHEET NOTES	
1.	FURNISH AND INSTALL NEW POWER FOR MECHANICAL EQUIPMENT. FURNISH AND INSTALL NEW JUNCTION BOX WITH A SWITCH AND ASSOCIATED CONDUIT AND WIRES FROM PANELBOARD.
2.	FURNISH AND INSTALL NEW POWER AND ASSOCIATED CONDUIT AND FEEDER FOR MECHANICAL EQUIPMENT. EC SHALL RE-USE EXISTING FEEDER AND CONDUIT TO NEW VFD. FURNISH AND INSTALL CONNECTION TO FACTORY MOUNTED VARIABLE FREQUENCY DRIVE. EC SHALL EXTEND EXISTING CONDUIT AND FEEDER AS REQUIRED. REFER TO HVAC EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
3.	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.
4.	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.
5.	FURNISH AND INSTALL NEW 15A2P 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.
6.	FURNISH AND INSTALL NEW CONDUIT AND WIRES FOR NEW KITCHEN EXHAUST FAN PER THE MECHANICAL EQUIPMENT WIRING SCHEDULE.
7.	FURNISH AND INSTALL NEW 30A RATED STARTER FOR NEW KITCHEN EXHAUST FAN. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
8.	FURNISH AND INSTALL NEW POWER FOR MECHANICAL EQUIPMENT VIA THE EXISTING BRANCH CIRCUIT. FURNISH AND INSTALL NEW JUNCTION BOX WITH A SWITCH FOR FAN COIL UNIT. EC SHALL EXTEND EXISTING BRANCH CIRCUIT AND CONDUIT AS NECESSARY FOR NEW FAN COIL UNIT LOCATION AS REQUIRED. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.

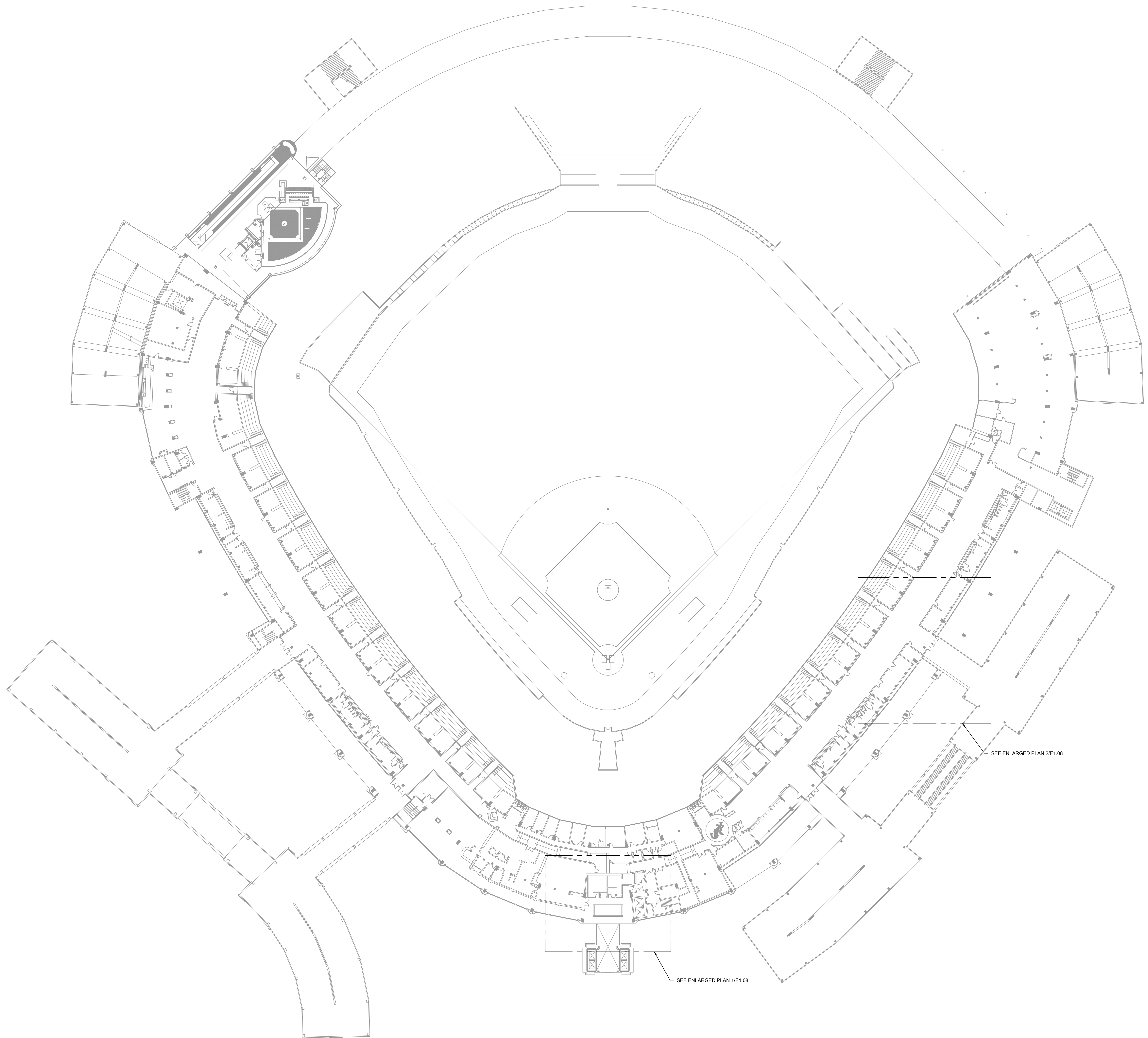


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PROJECT:
GUARANTEED RATE FIELD -
HVAC REPLACEMENT PHASE XI
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

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

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



1 ELECTRICAL NEW WORK PLAN - 300 LEVEL OVERALL

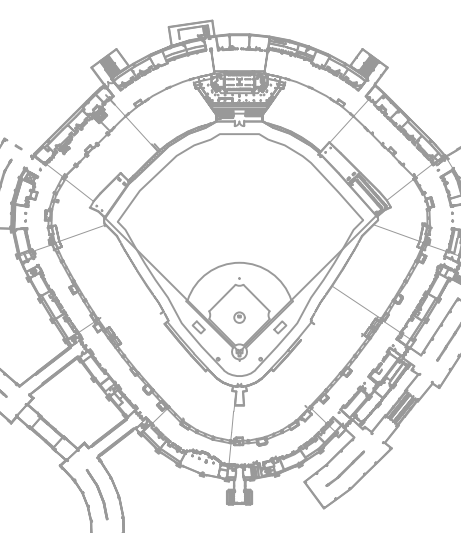
SCALE: 1/32" = 1'-0"
0 16' 32' 64'



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KEY PLAN



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GUARANTEED RATE FIELD -
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333 W 35TH STREET,
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DRAWING TITLE:

ELECTRICAL NEW WORK PLAN
- 300 LEVEL OVERALL

DESIGNED BY: TG

CHECKED BY: BT

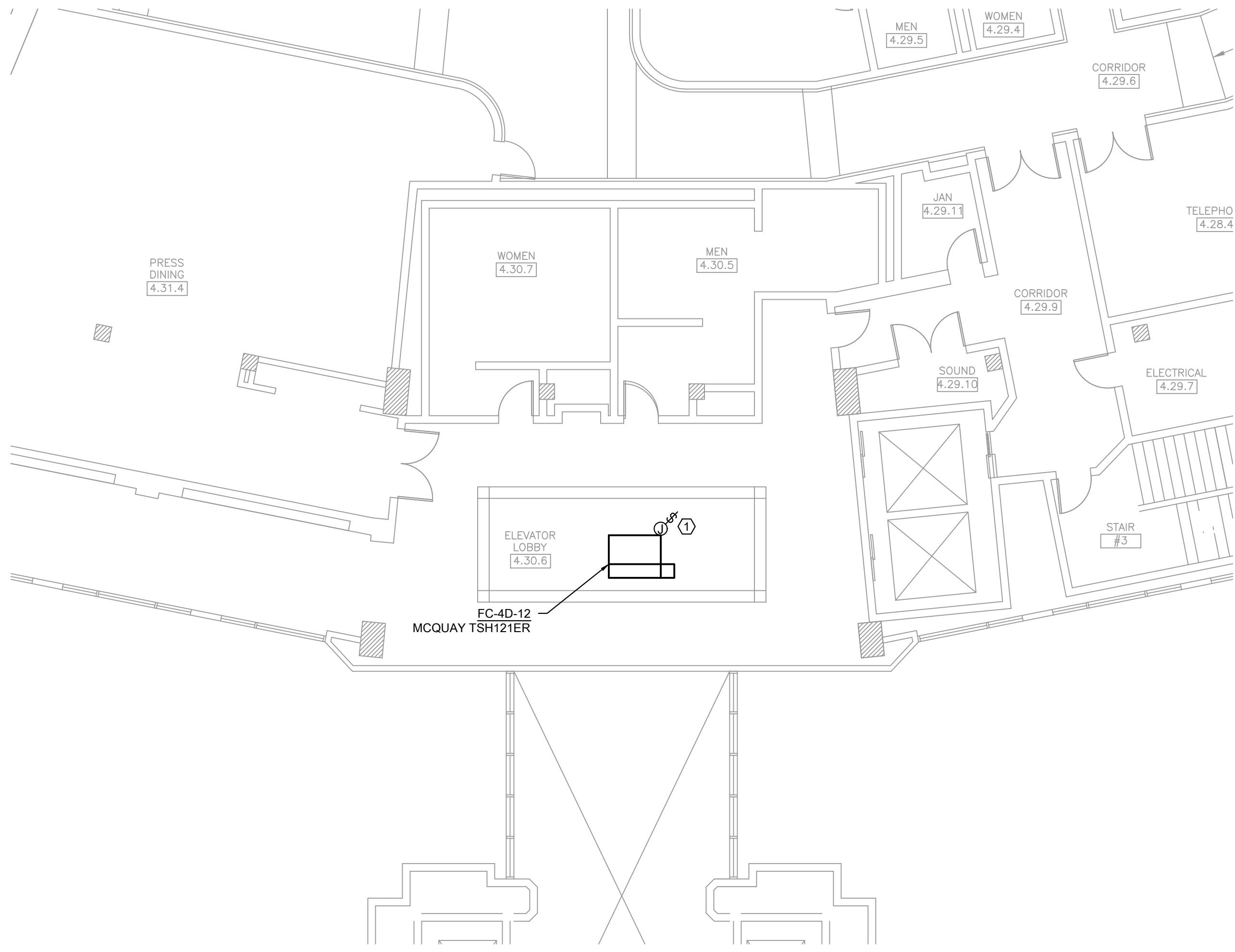
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SHEET NO.

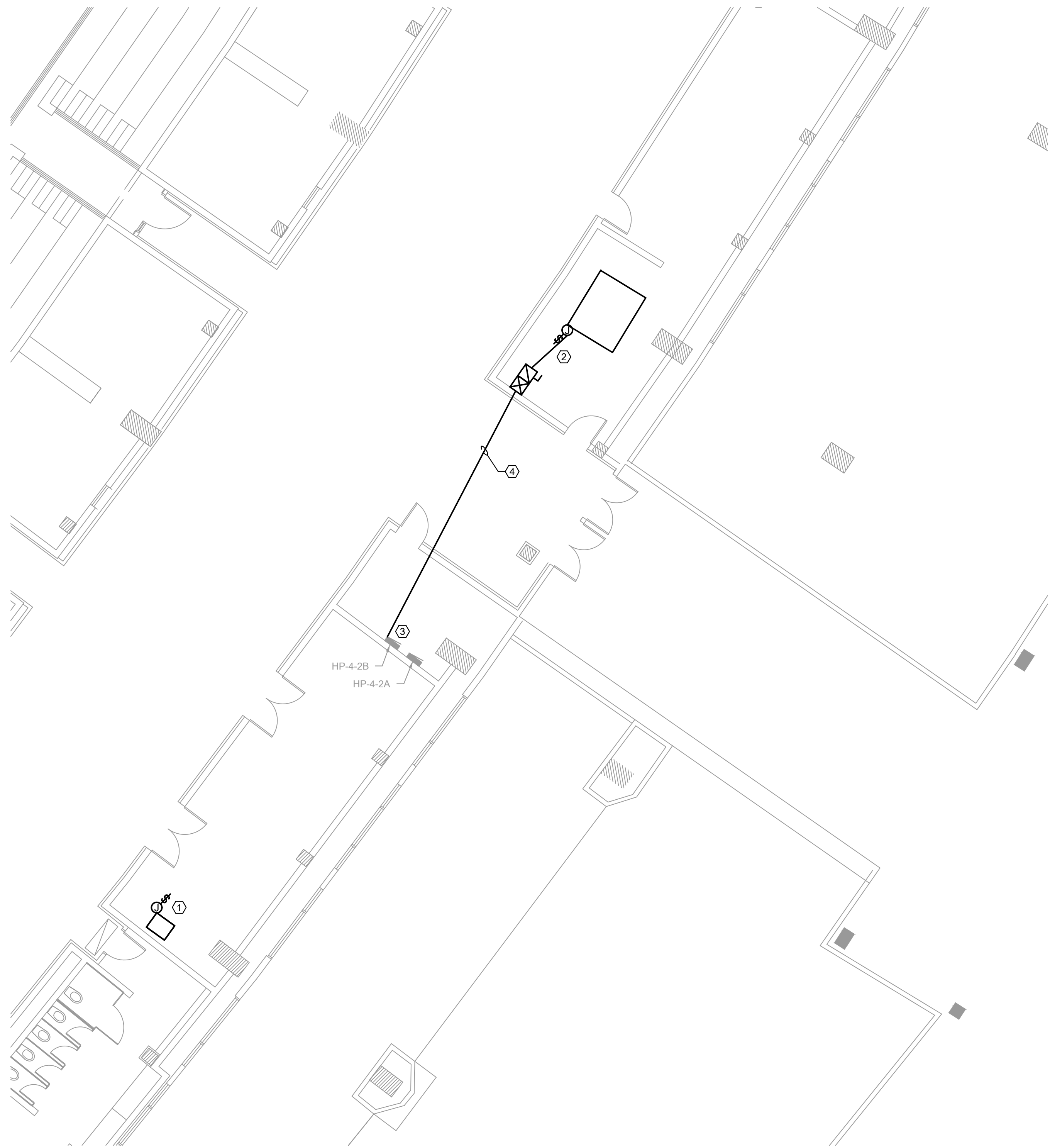
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E1.07



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

KEYED ELECTRICAL NEW WORK SHEET NOTES	
1.	FURNISH AND INSTALL NEW POWER FOR MECHANICAL EQUIPMENT VIA THE EXISTING BRANCH CIRCUIT. FURNISH AND INSTALL NEW JUNCTION BOX WITH A SWITCH FOR FAN COIL UNIT. EC SHALL EXTEND EXISTING EXISTING BRANCH CIRCUIT AND CONDUIT AS NECESSARY FOR NEW FAN COIL UNIT LOCATION AS REQUIRED. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
2.	FURNISH AND INSTALL NEW POWER FOR MECHANICAL EQUIPMENT AND THE ASSOCIATED CONDUIT AND WIRES FROM THE PANELBOARD SHOWN. EC SHALL FURNISH AND INSTALL NEW STARTER FOR THE MECHANICAL EQUIPMENT.
3.	FURNISH AND INSTALL NEW POWER FOR MECHANICAL EQUIPMENT SHOWN. EC SHALL USE ONE OF THE SPARE 20A/3P CIRCUIT BREAKERS. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
4.	FURNISH AND INSTALL NEW ABOVE CEILING CONDUIT AND WIRES FOR NEW MECHANICAL EQUIPMENT. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.



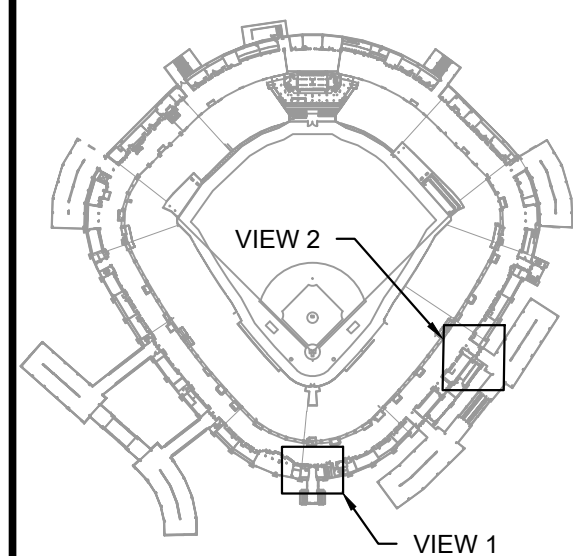
2 ELECTRICAL NEW WORK PLAN - STORAGE 4.22 & PANTRY 4.20.1
SCALE: 1/8" = 1'-0"



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KEY PLAN



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

PROJECT:
GUARANTEED RATE FIELD -
HVAC REPLACEMENT PHASE XI

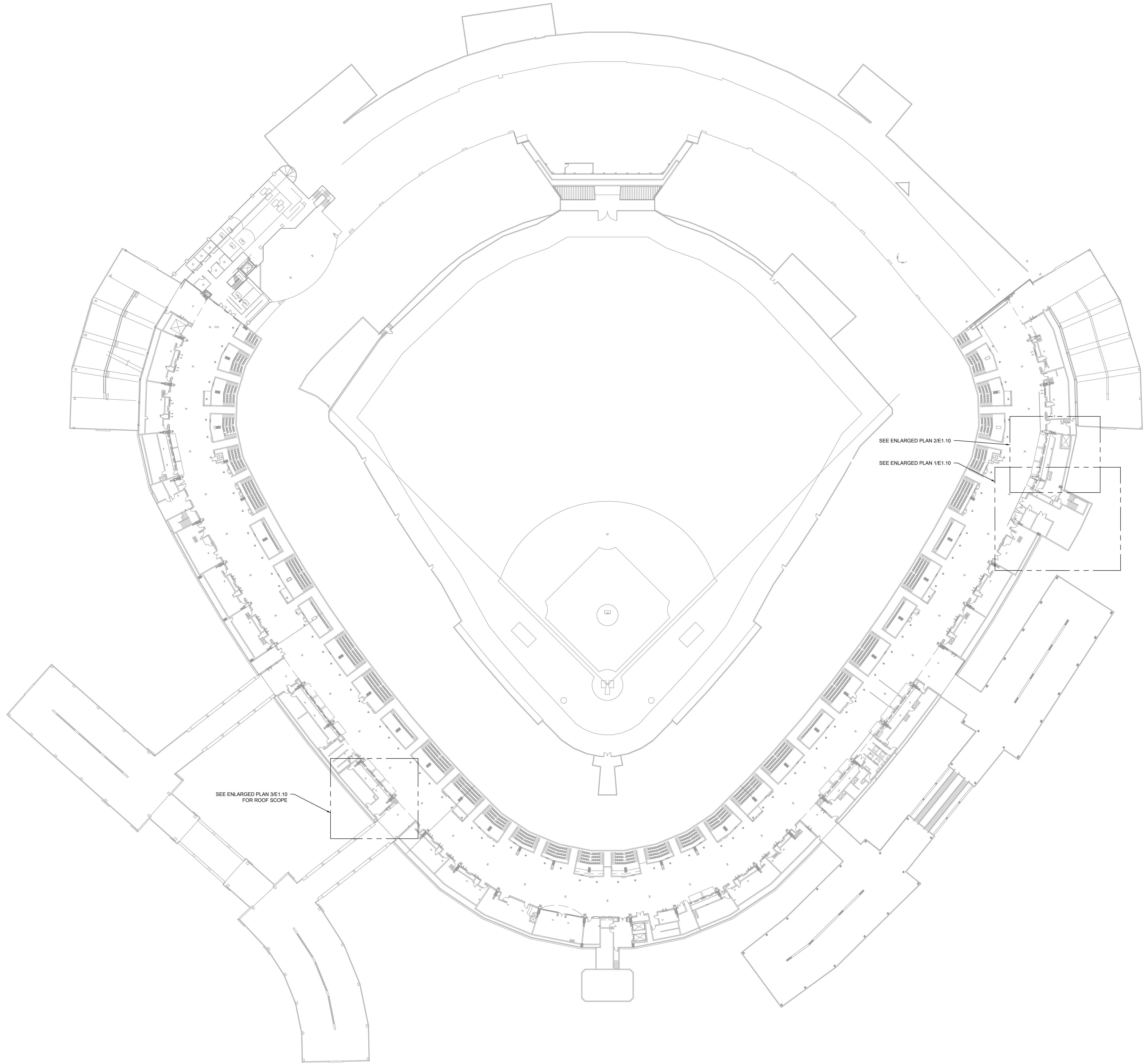
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

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.	

11/05/2021 ISSUED FOR BID
PRELIMINARY - NOT FOR CONSTRUCTION

E1.08



1 ELECTRICAL NEW WORK PLAN - 500 LEVEL OVERALL

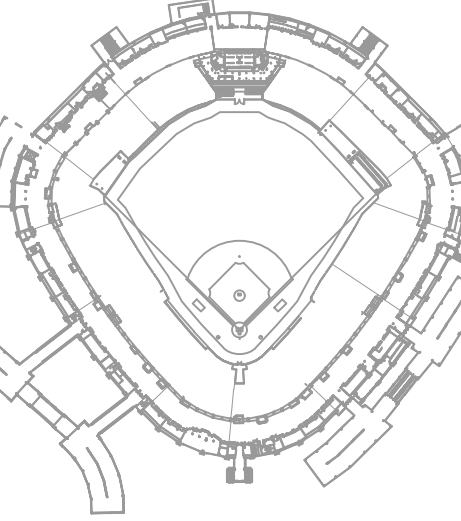
SCALE: 1/32" = 1'-0"



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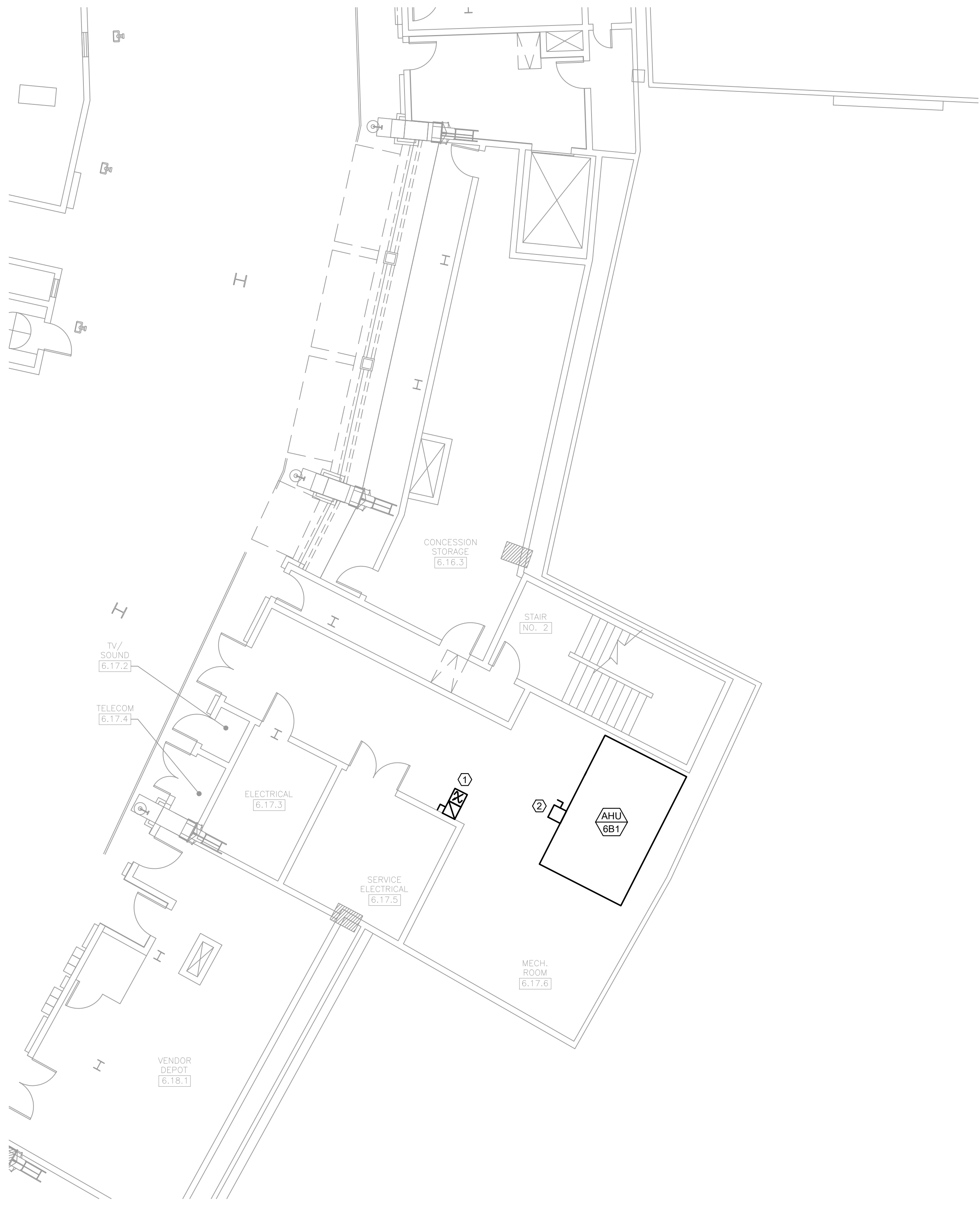
PROJECT:
GUARANTEED RATE FIELD -
HVAC REPLACEMENT PHASE XI

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

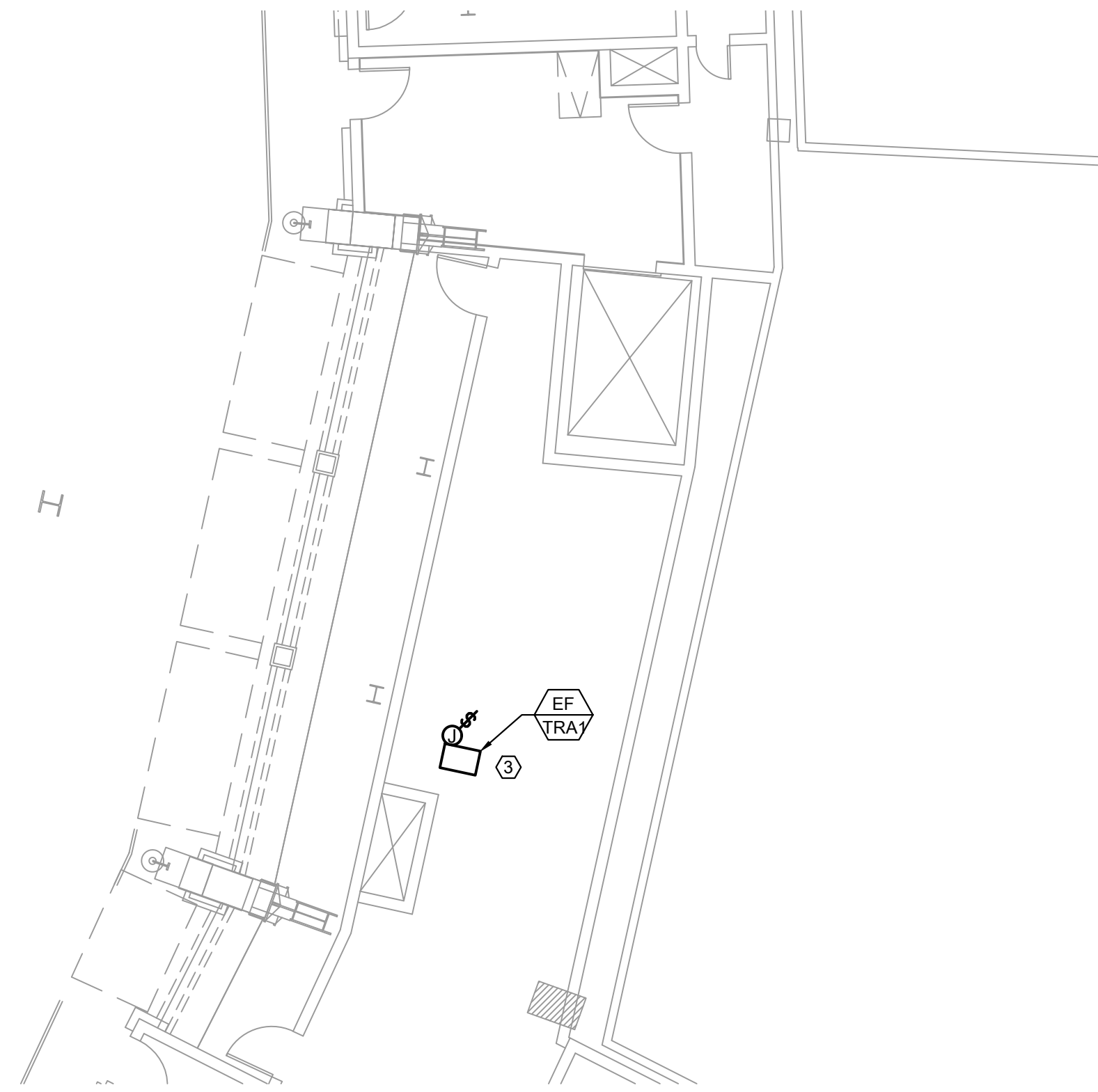
DRAWING TITLE:
ELECTRICAL NEW WORK PLAN
- 500 LEVEL OVERALL

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

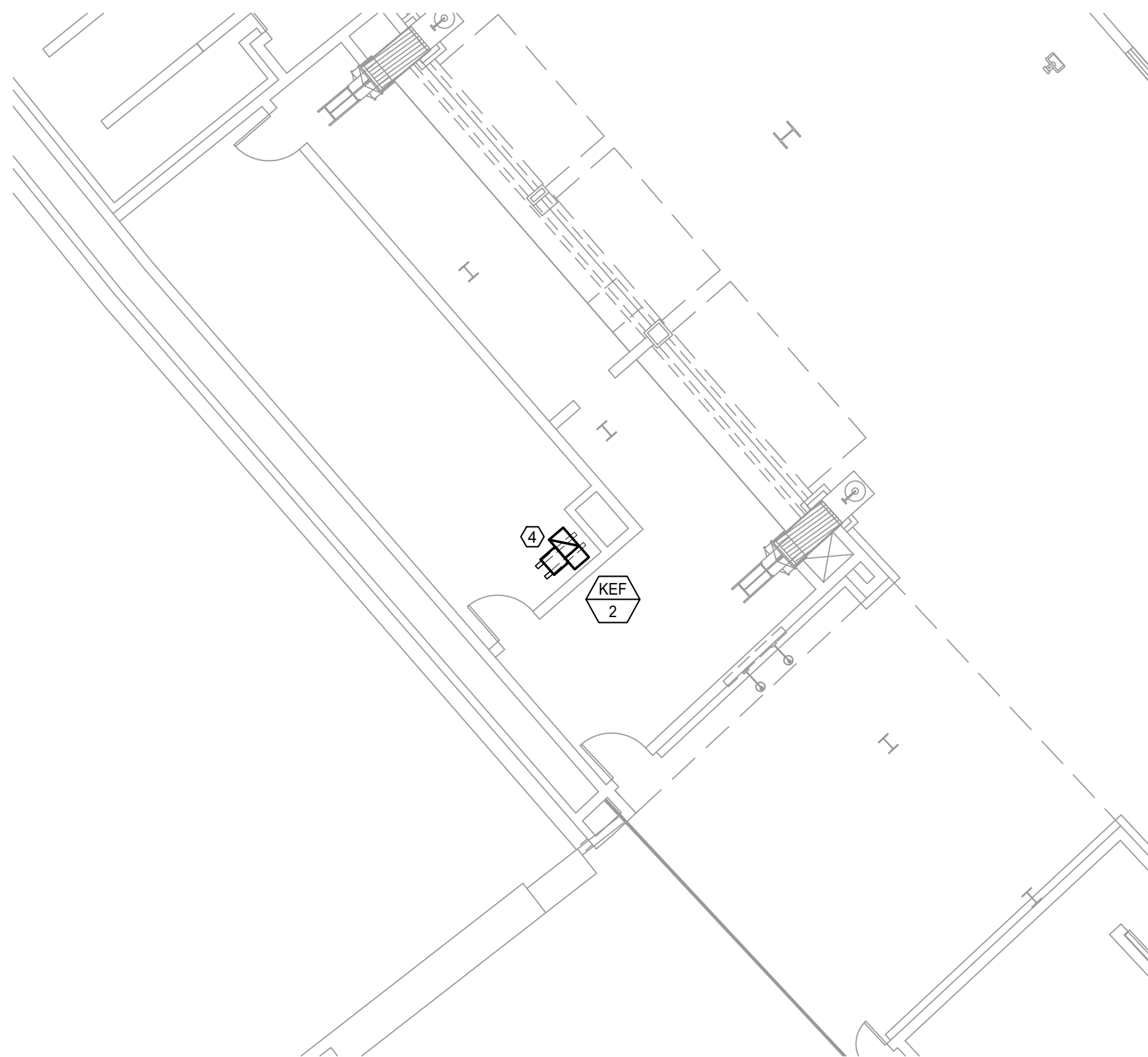
11/05/2021 ISSUED FOR BID
PRELIMINARY - NOT FOR CONSTRUCTION



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

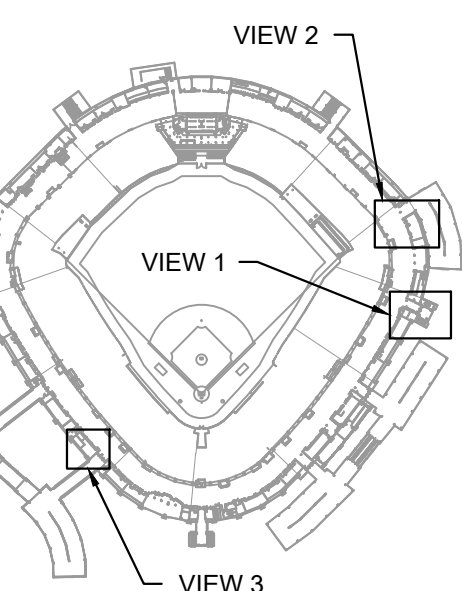
- FURNISH AND INSTALL NEW POWER AND ASSOCIATED CONDUIT AND FEEDER FOR MECHANICAL EQUIPMENT. EC SHALL RE-USE EXISTING FEEDER AND CONDUIT TO NEW VFD. FURNISH AND INSTALL CONNECTION TO FACTORY MOUNTED VARIABLE FREQUENCY DRIVE. EC SHALL EXTEND EXISTING CONDUIT AND FEEDER AS REQUIRED. REFER TO HVAC EQUIPMENT 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 HVAC EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
- FURNISH AND INSTALL NEW POWER FOR MECHANICAL EQUIPMENT VIA THE EXISTING CONDUIT AND WIRES. FURNISH AND INSTALL NEW STARTER IN ELECTRICAL ROOM 6.17.03 IN THE SAME LOCATION AS THE EXISTING STARTER 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.
- FURNISH AND INSTALL NEW POWER FOR MECHANICAL EQUIPMENT VIA THE EXISTING CONDUIT AND WIRES. FURNISH AND INSTALL NEW VARIABLE FREQUENCY DRIVE IN ELECTRICAL ROOM 6.38.03 IN THE SAME LOCATION AS THE EXISTING VFD 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.



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KEY PLAN



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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 - 500 LEVEL ENLARGED
PLANS

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

SHEET NO.

11/05/2021 ISSUED FOR BID
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	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	EXISTING PANEL	1	2	12	12	3/4"	-	-	-	-	-	-	-	-	-	E.C	-	-	20	-	2	NEMA 1	-	E.C	-	-	-	-	YES	-	-	
AC-2	AIR CONDITIONING UNIT	GROUND LEVEL - HYDROTHERAPY ROOM	208	1	-	-	1	-	15	2	EXISTING PANEL	1	2	12	12	3/4"	-	-	-	-	-	-	-	-	-	E.C	-	-	20	-	2	NEMA 1	-	E.C	-	-	-	-	YES	-	-	
AC-3	AIR CONDITIONING UNIT	GROUND LEVEL - HYDROTHERAPY ROOM	208	1	-	-	1	-	15	2	EXISTING PANEL	1	2	12	12	3/4"	-	-	-	-	-	-	-	-	-	E.C	-	-	20	-	2	NEMA 1	-	E.C	-	-	-	-	YES	-	-	
CU-1	CONDENSING UNIT	GROUND LEVEL - SERVICE TUNNEL	208	1	-	-	18.3	-	25	2	RP1-4AC	1	2	10	10	3/4"	-	-	-	-	-	-	-	-	-	E.C	-	-	30	-	2	NEMA 1	-	E.C	-	-	-	-	YES	-	-	
FCU	FAN COIL UNIT	GROUND LEVEL - COMMAND CENTER	120	1	-	-	-	-	20	1	RP-1-3C	1	2	12	12	3/4"	-	-	-	-	-	-	-	-	-	E.C	-	-	20	-	1	NEMA 1	-	E.C	-	-	-	-	YES	-	-	
RF	RETURN FAN	GROUND LEVEL - FOOD STORAGE	480	3	-	-	-	-	15	3	EXISTING PANEL	1	3	12	12	3/4"	-	-	-	-	-	-	-	-	-	E.C	-	-	20	-	3	NEMA 1	-	E.C	-	-	-	-	YES	-	-	
EF	EXHAUST FAN	100 LEVEL - ICE CREAM SHOP	480	3	3	-	-	-	20	3	HP-2-7A(2)	1	3	12	12	3/4"	-	-	-	-	-	-	-	-	-	E.C	-	-	20	-	3	NEMA 1	-	E.C	-	-	-	-	YES	-	-	
EF-2-44-1	EXHAUST FAN	100 LEVEL - CONCESSIONS STAND	120	1	3/4	-	13.8	-	20	1	CP-2-5B-1	1	2	12	12	3/4"	-	-	-	-	-	-	-	-	-	E.C	-	-	20	-	1	NEMA 1	-	E.C	-	-	-	-	YES	-	-	
RTU-1	ROOFTOP UNIT	100 LEVEL - SCOUTS LOUNGE ROOM	480	3	-	-	144.8	-	150	3	EXISTING PANEL	1	3	110	6	1.1/2"	M.C	-	-	-	-	-	-	-	-	E.C	-	-	200	-	3	NEMA 3R	-	E.C	-	-	-	-	YES	-	-	
AC-4	AIR CONDITIONING UNIT	100 LEVEL - ICE CREAM STAND	208	1	-	-	1	-	15	2	HP-2-7A(2)	1	2	12	12	3/4"	-	-	-	-	-	-	-	-	-	E.C	-	-	20	-	2	NEMA 1	-	E.C	-	-	-	-	YES	-	-	
AC-5	AIR CONDITIONING UNIT	100 LEVEL - ICE CREAM STAND	208	1	-	-	1	-	15	2	HP-2-7A(2)	1	2	12	12	3/4"	-	-	-	-	-	-	-	-	-	E.C	-	-	20	-	2	NEMA 1	-	E.C	-	-	-	-	YES	-	-	
CU-2	CONDENSING UNIT	200 LEVEL - ROOF	208	1	-	-	18.3	-	25	2	HP-4-2B	1	2	10	10	3/4"	-	-	-	-	-	-	-	-	-	E.C	-	-	20	-	2	NEMA 1	-	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"	-	M.C	E.C	-	VFD	-	-	-	-	-	-	-	-	-	-	-	-	E.C	-	-	-	-	YES	-	-	
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	-	-	225	-	3	NEMA 1	-	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"	-	M.C	E.C	-	VFD	-	-	-	-	-	-	-	-	-	-	-	-	E.C	-	-	-	-	YES	-	-	
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"	-	-	-	-	-	-	-	-	-	E.C	-	-	400	-	3	NEMA 1	-	E.C	-	-	-	-	YES	-	-	
KEF-1	KITCHEN EXHAUST FAN	200 LEVEL - KITCHEN	480	3	3	-	4.8	-	15	3	HP-3-4B	1	3	12	12	3/4"	E.C	-	-	#0	FVNR	30	-	3	NEMA 1	-	-	-	-	-	-	-	-	-	-	-	YES	-	-			
CU-2	CONDENSING UNIT	200 LEVEL - ICE CREAM STAND ROOF	208	1	-	-	18.3	-	25	2	HP-2-7A(2)	1	2	10	10	3/4"	-	-	-	-	-	-	-	-	-	E.C	-	-	30	-	2	NEMA 1	-	E.C	-	-	-	-	YES	-	-	
FCU	FAN COIL UNIT	300 LEVEL - ELEVATOR LOBBY	120	1	-	-	-	-	20	1	EXISTING PANEL	1	2	12	12	3/4"	-	-	-	-	-	-	-	-	-	E.C	-	-	20	-	1	NEMA 1	-	E.C	-	-	-	-	YES	-	-	
EF	EXHAUST FAN	300 LEVEL - STORAGE ROOM	480	3	-	-	-	-	20	3	EXISTING PANEL	1	3	12	12	3/4"	-	-	-	-	-	-	-	-	-	E.C	-	-	20	-	3	NEMA 1	-	E.C	-	-	-	-	YES	-	-	
SUPPLY FAN	SUPPLY FAN	300 LEVEL - FOOD PANTRY	480	3	-	-	-	-	20	3	HP-4-2B	1	3	12	12	3/4"	-	-	-	-	-	-	-	-	-	E.C	-	-	20	-	3	NEMA 1	-	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"	M.C	-	-	#2	VFD	-	-	-	-	-	-	-	-	-	-	-	-	E.C	-	-	-	-	YES	-	-	
AHU-6B1	ELECTRIC HEATING COIL	500 LEVEL - MECH ROOM 6.17.6	480	3	-	85	102	-	150	3	SWBD-1-3B	1	3	110	6	1.1/2"	-	-	-	-	-	-	-	-	-	E.C	-	-	225	-	3	NEMA 1	-	E.C	-	-	-	-	YES	-	-	
EF-TRA1	EXHAUST FAN	500 LEVEL - TRASH CHUTE EXHAUST ROOF	480	3	1	-	2.1	-	15	3	EXISTING PANEL	1	3	12	12	3/4"	-	-	-	-	-	-	-	-	-	E.C	-	-	20	-	3	NEMA 1	-	E.C	-	-	-	-	YES	-	-	
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	-	-	#0	VFD	-	-	-	-	-	-	-	-	-	-	-	-	E.C	-	-	-	-	YES	-	-	

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 VERIFY 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. E.C. SHALL LOCATE THE DISCONNECT SWITCH WITHIN 5FT AND WITHIN SIGHT OF THE EQUIPMENT.
- 7

E.C. SHALL PROVIDE CONNECTIONS TO MOTOR/LISTED EQUIPMENT. PROVIDE A G_U 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:

FLEXIBLE WHIP CONDUIT
- CPC:

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)
- NOTE #2

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 #3

E.C. SHALL PROVIDE MOUNTING/RACKING FOR VARIABLE FREQUENCY 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
- NOTE #4

E.C. SHALL PROVIDE MOUNTING/RACKING FOR DISCONNECT SWITCHES
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"
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
EQUIPMENT FLEX WHIPS SHALL NOT EXCEED 72" MAXIMUM LENGTH
VERIFY ALL CPC NEMA CONNECTIONS WITH THE OEM PRIOR TO INSTALLATION
- NOTE #5

E.C. SHALL PROVIDE USER TOGGLE/KEY SWITCH @ 48" AFF.
- NOTE #6

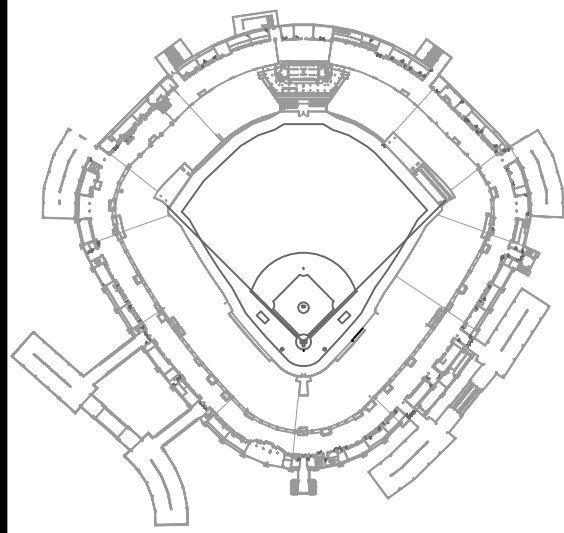
DISCONNECT IS INTEGRAL WITH EQUIPMENT CONTROLLER



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KEY PLAN



ISSUE/REVISION:

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

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.

