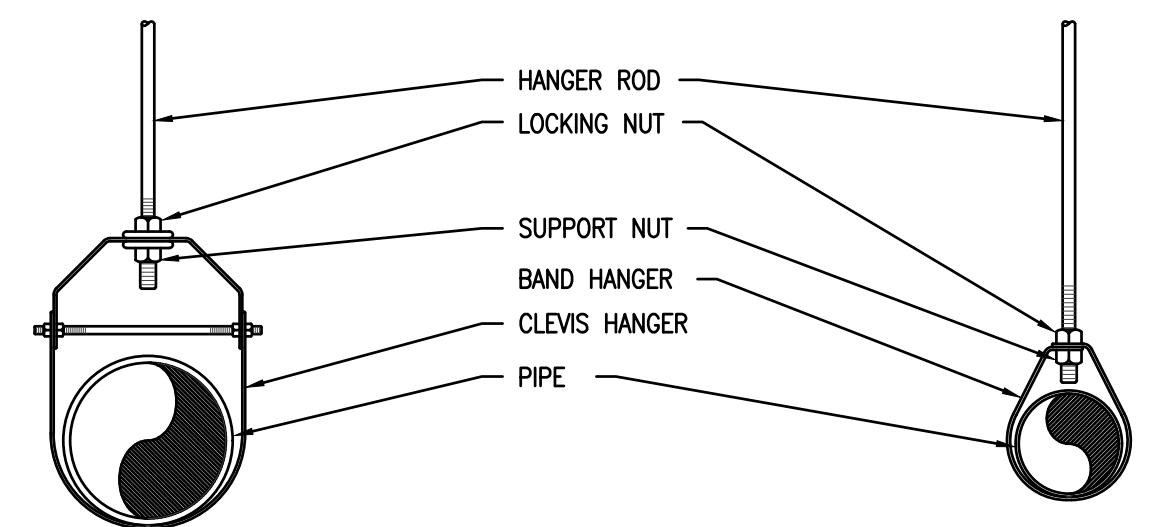


HANGER ROD SCHEDULE		HANGER ROD SPACING	
PIPE SIZE	ROD SIZE	PIPE SIZE	MAX. ALLOWABLE SPACING
UP TO 2"	3/8" DIA.	1"	7'
2 1/2" THRU 3"	1/2" DIA.	1 1/4"	8'
4" AND 5"	5/8"	1 1/2"	9'
6" - 8"	3/4"	2"	10'
10 & 12"	7/8"	2 1/2"	11'
		3" - 12"	12'

INSULATED AND NON INSULATED PLUMBING SYSTEMS



4-INCH AND LARGER 3-INCH AND SMALLER

HANGER ROD SCHEDULE		HANGER ROD SPACING	
PIPE SIZE	ROD SIZE	PIPE SIZE	MAX. ALLOWABLE SPACING
UP TO 2"	3/8" DIA.	1"	7'
2 1/2" & 3"	1/2" DIA.	1 1/4"	8'
4" AND 5"	5/8"	1 1/2"	9'
6" - 8"	3/4"	2"	10'
10 & 12"	7/8"	2 1/2"	11'
		3" - 12"	12'

1 CLEVIS PIPE HANGER/ROD INSTALLATION NTS

2 CLEVIS-BAND HANGER/ROD INSTALLATION NTS

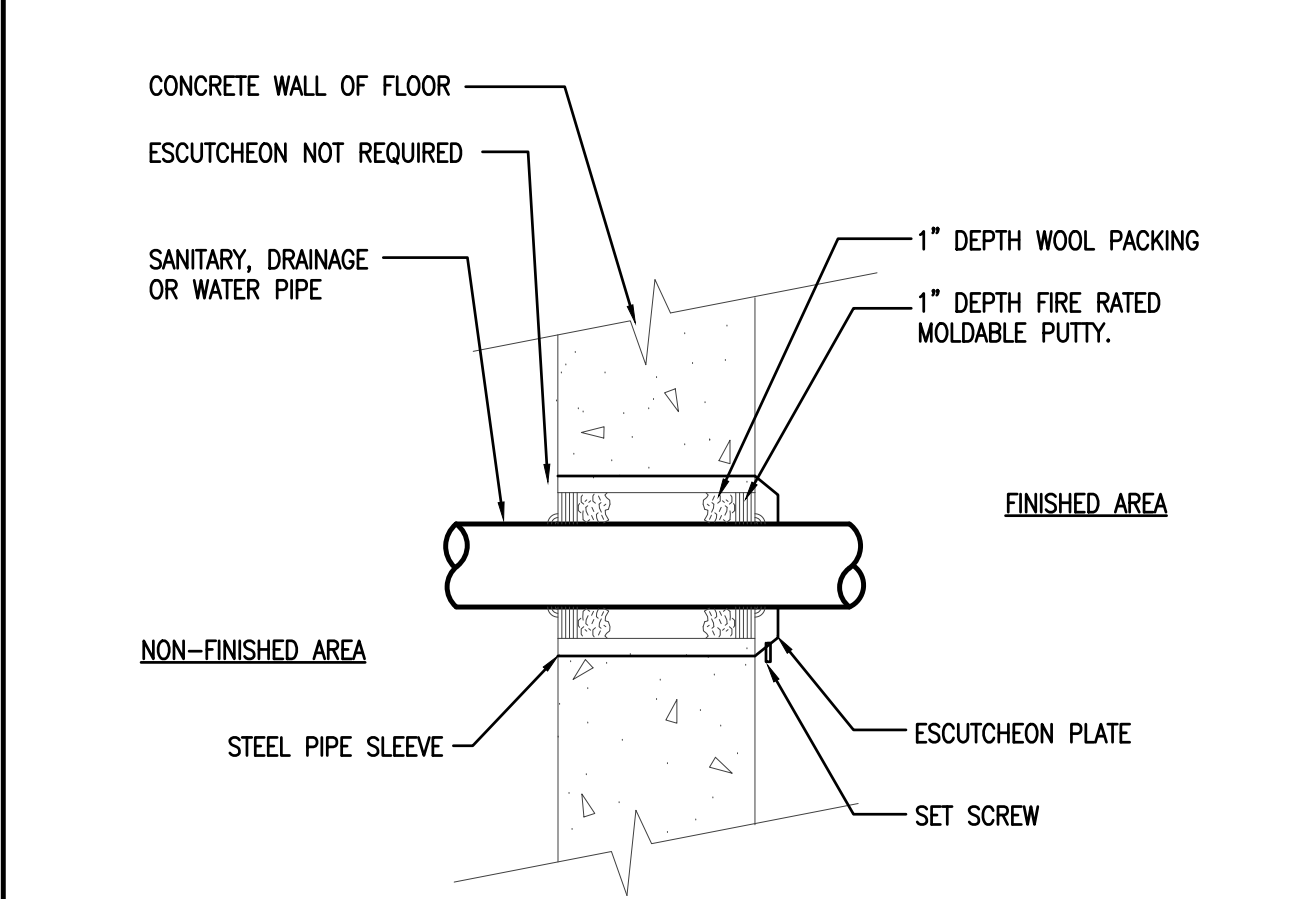
PLUMBING GENERAL NOTES

- GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL PLUMBING DRAWINGS.
- DRAWINGS ARE DIAGRAMMATIC; DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD. DO NOT SCALE DRAWINGS.
- NEITHER ACCURACY NOR COMPLETION OF UTILITY LOCATIONS SHOWN ON DRAWINGS IS GUARANTEED. DETERMINE EXACT LOCATIONS OF EXISTING UTILITIES IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
- ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE PRESIDING PLUMBING CODE AND ALL APPLICABLE LOCAL CODES.
- IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE WORK WITH THAT OF ALL OTHER TRADES, INCLUDING (BUT NOT LIMITED TO), ELECTRICAL, HVAC, FIRE PROTECTION, STRUCTURAL AND GENERAL ARCHITECTURE.
- ANY INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR, AND/OR THE OWNER'S REPRESENTATIVE, AND RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.
- ALL PIPING PENETRATING CEILINGS AND WALLS SHALL BE INSTALLED WITH CHROME (STAINLESS WHERE NOTED) PLATED ESCUTCHEONS AT THE PENETRATION. ALL PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED IN AN APPROVED MANNER AND SHALL BE SEALED WEATHERTIGHT. PIPING PENETRATING RATED PARTITIONS SHALL BE PROTECTED WITH UL LISTED SEALS OF EQUAL RATING AND AS REQUIRED BY LOCAL CODE AUTHORITY.
- MANUFACTURERS' MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.
- ALL PRODUCT INSTALLATION SHALL ADHERE TO THE MANUFACTURERS' RECOMMENDATIONS.
- PROVIDE ACCESS PANELS FOR ALL EQUIPMENT THAT REQUIRES PERIODIC SERVICE AND FOR ALL VALVES.
- CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS, AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN HEREIN.
- ALL PLUMBING EQUIPMENT, PIPING, INSULATION, ETC., INSTALLED IN HVAC PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY.
- PROVIDE SHUTOFF VALVES ON ALL BRANCH PIPING AND SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT. PROVIDE BALL VALVES ON ALL WATER MAIN BRANCHES IN CORRIDORS AND WHERE INDICATED ON DRAWINGS. ALL VALVES SHALL BE ACCESSIBLE.
- ALL SLEEVES THROUGH CONCRETE FLOORS AND ALL CORE DRILLING OF CONCRETE FLOORS AND WALLS SHALL BE BY THIS CONTRACTOR. CONCRETE PADS AND PLATFORMS FOR WORK OF THIS SECTION WILL BE PROVIDED BY GENERAL CONTRACTOR. PROVIDE INFORMATION AS NECESSARY TO COORDINATE WORK.
- RUN PIPING CONCEALED WHERE POSSIBLE, UNLESS SPECIFIED OTHERWISE.
- STRUCTURAL WELDING SHALL BE 1/4-INCH FILLET UNLESS REQUIRED OTHERWISE.
- PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
- PROVIDE VENTS AT HIGH POINTS IN PIPING SYSTEMS AND DRAIN VALVES AT LOW POINTS.
- VERIFY EXACT SIZES, LOCATIONS, INVERTS AND ELEVATIONS PRIOR TO RUNNING ANY PIPING. REFER TO ARCHITECTURAL DRAWINGS AND FOOD SERVICE DRAWINGS FOR EXACT LOCATIONS OF ALL FIXTURES AND EQUIPMENT.
- PIPE SUPPORTS FOR PLUMBING IN BUILDING SHAFTS ARE BY THIS CONTRACTOR. CAREFULLY COORDINATE WITH PLACEMENT OF STEEL GRATE SUPPORT BEAMS. SHAFT PIPE SUPPORT SHALL BEAR FROM WALL AND FROM FLOOR SUPPORT BEAMS.
- GENERAL FLOOR CONTROL VALVES OF PIPED SERVICES SHALL BE IN THE PIPE SHAFTS UNLESS OTHERWISE INDICATED.
- OBTAIN GAS PERMITS AND DEFRAY ALL COSTS INCIDENTAL TO THE GAS PIPING SYSTEM. CONTRACTORS WORK SHALL COMMENCE ON THE HOUSE SIDE OF THE UTILITY COMPANY METER.
- A SUITABLE DRIP OF CONDENSATE POCKET SHALL BE INSTALLED AT THE BOTTOM OF ALL GAS RISERS.
- ALL GAS PIPING TO COMPLY WITH LOCAL AND STATE CODES.
- GAS PIPING AND SAFETY DEVICES SHALL CONFORM TO REQUIREMENTS OF NFPA 54 AND SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE AUTHORITY HAVING JURISDICTION.
- PLUMBING CONTRACTOR IS RESPONSIBLE FOR EXTENDING ALL REGULATOR VENTS TO ATMOSPHERE. REGULATORS ARE PART OF EQUIPMENT GAS TRAIN. PIPE ALL GAS TRAV VENTS FROM HVAC BOILERS TO ATMOSPHERE.
- NO PIPING SHALL RUN OVER ELECTRICAL PANELS.
- ALL PIPING THAT PENETRATES FLOORS OR FIRE RATED WALLS SHALL BE FIRE STOPPED W/ HILTI CAULKING PER MANUFACTURERS RECOMMENDATIONS.
- ELECTRICAL SUB CONTRACTOR IS RESPONSIBLE FOR PROVIDING POWER TO ALL EQUIPMENT AND CONTROLS WITHIN THE PLUMBING SYSTEMS FOR THIS PROJECT.
- PC TO ORGANIZE/LOCATE CUT OUTS FOR PIPING/CONDUITS RUNNING PERPENDICULAR TO THE FLOOR JOISTS W/ GC. COORDINATE AND VERIFY IN FIELD.
- COORDINATE ALL CEILING AND WALL MOUNTED FIXTURES AND EQUIPMENT WITH ARCHITECTURAL DRAWINGS. LOCATE FIXTURES AND EQUIPMENT AS INDICATED ON ARCHITECTURAL DRAWINGS WHERE ACCEPTABLE BY CODE.
- ALL SLEEVES THROUGH CONCRETE FLOORS AND FIRE RATED WALLS OR PARTITIONS SHALL BE FIRE STOPPED WITH UL RATED ASSEMBLIES OF EQUAL FIRE RATING.

PLUMBING LEGEND

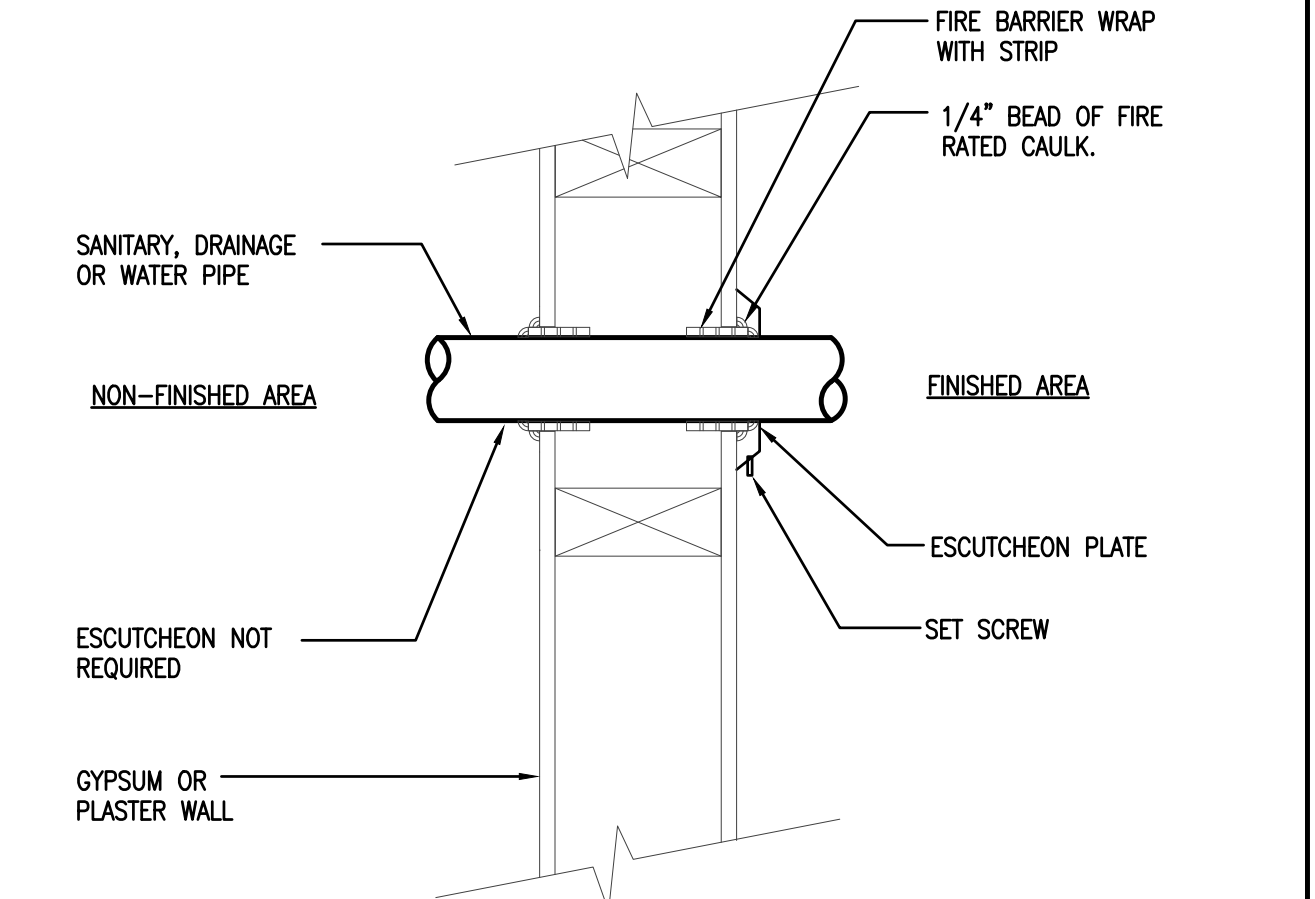
	ETR	LIGHT LINE INDICATES EXISTING PIPING TO REMAIN.
	RE	REMOVE EXISTING PIPING
	CTE	CONNECT TO EXISTING
	C&C	CUT & CAP
	CW	COLD WATER
	HW	HOT WATER
	HWR	HOT WATER RECIRCULATION
	V	VENT
	G	NATURAL GAS
		CONTINUATION
	UP / RISER	PIPE RISER
	DR / DN	PIPE DROP OR DOWN
	TEE	PIPE TEE
	VIV	VALVE IN VERTICAL
		GAS SHUT-OFF VALVE
		CAPPED PIPE
		UNION
	GM	GAS METER
	VTR	VENT THRU ROOF
	VF	VERIFY EXACT LOCATION, SIZE & CONNECTION IN FIELD
	TYP	TYPICAL
	NTS	NOT TO SCALE
	AFF	ABOVE FINISHED FLOOR
	FEE	FINISHED FLOOR ELEVATION
	LPC	LIMIT OF PLUMBING CONTRACT
	GC	GENERAL CONTRACTOR
	FPC	FIRE PROTECTION CONTRACTOR
	PC	PLUMBING CONTRACTOR
	EC	ELECTRICAL CONTRACTOR
	HVAC	HVAC CONTRACTOR

NOTE: FIRESTOP SEALANTS AND PIPING PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL COMPLY WITH THE UL FIRE RESISTANCE DIRECTORY.



3 MASONRY WALL FIRE RATED SLEEVE NTS

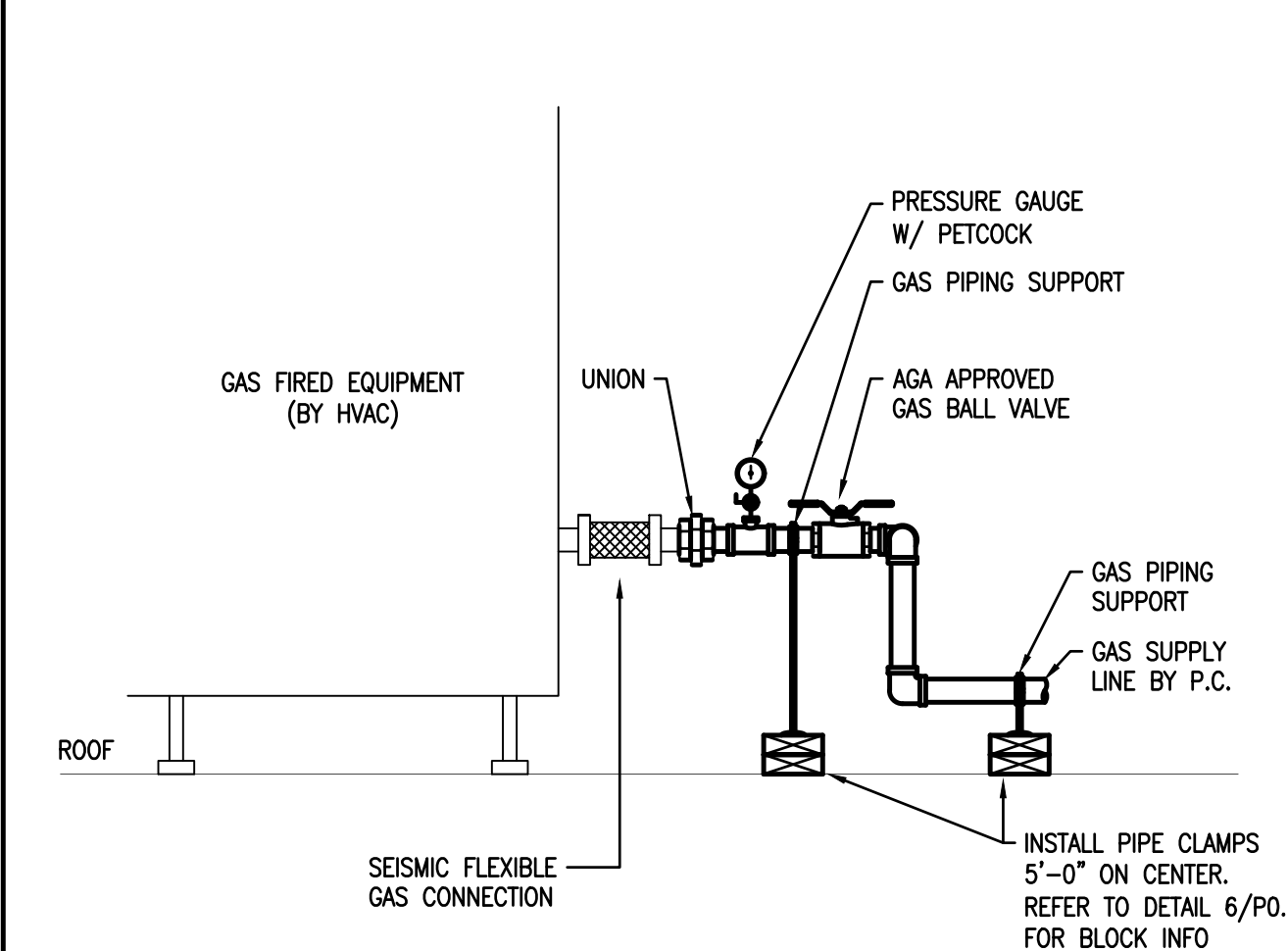
NOTE: FIRESTOP SEALANTS AND PIPING PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL COMPLY WITH THE UL FIRE RESISTANCE DIRECTORY.



4 STUD WALL FIRE RATED SLEEVE NTS

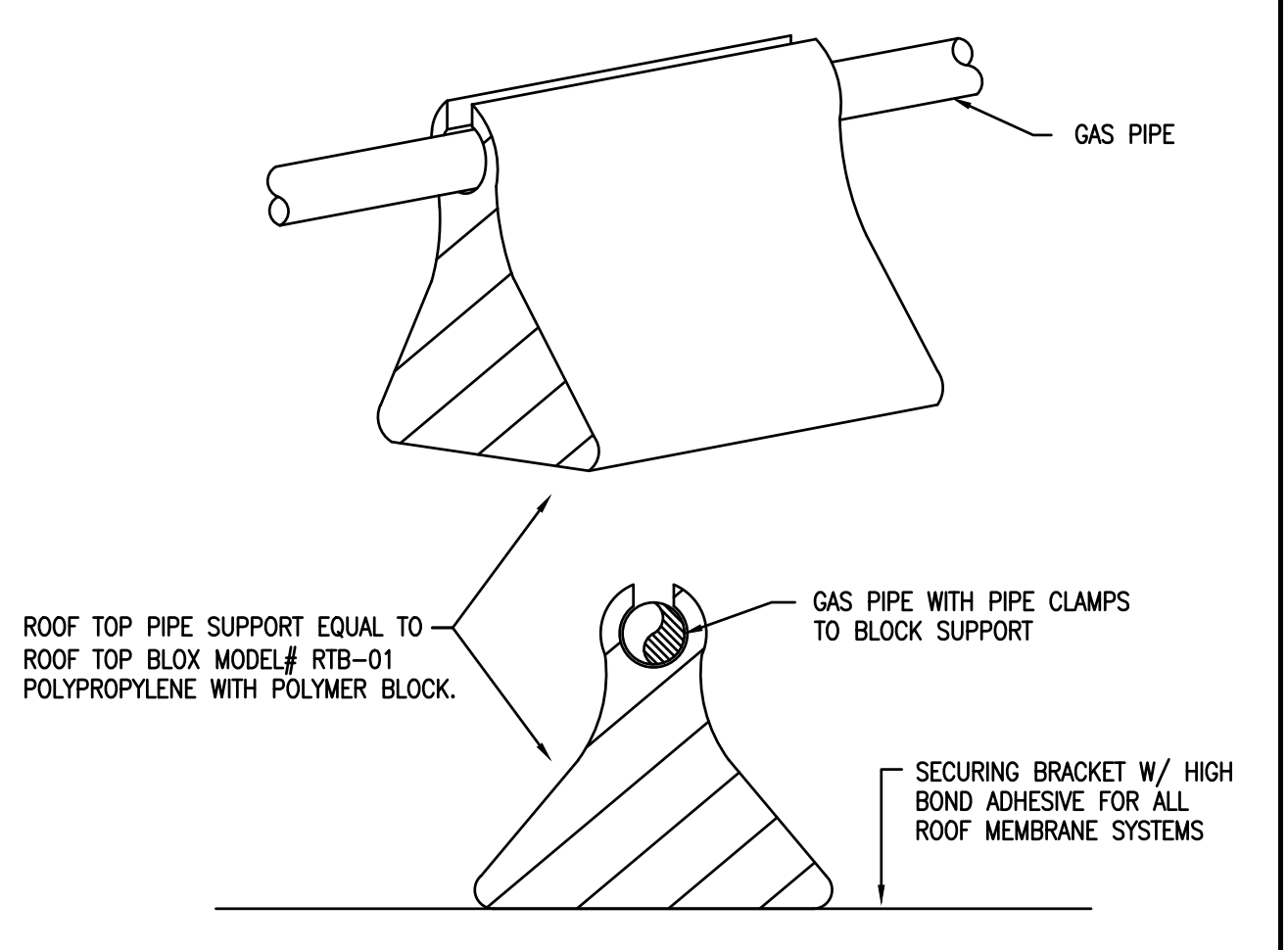
PLUMBING DEMOLITION NOTES

- PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND TO DETERMINE THE EXTENT OF WORK TO REMOVE THE EXISTING PLUMBING SYSTEM INDICATED TO BE REMOVED. IF DISCREPANCIES EXIST BETWEEN DRAWINGS AND/OR SITE CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AND THE OWNER PRIOR TO SIGNING OF CONTRACT. REQUESTS FOR COMPENSATION FOR EXTRA WORK, WHICH WOULD HAVE BEEN EVIDENT BY COMPLIANCE WITH THE PREVIOUS STATEMENT, WILL NOT BE CONSIDERED.
- DISCONNECT, DISMANTLE AND DEMOLISH ALL EXISTING DOMESTIC WATER, SANITARY WASTE & VENT AND NATURAL GAS SUPPLY PIPING, INDICATED TO BE REMOVED, BACK TO RESPECTIVE MAINS TO REMAIN. EXISTING PLUMBING FIXTURES AND EQUIPMENT, INDICATED TO BE REMOVED, SHALL BE REMOVED IN THEIR ENTIRETY AND PROPERLY DISPOSED OF. EXISTING STORM DRAINAGE SUPPLY PIPING AND ROOF DRAINS SHALL REMAIN. REMOVE ALL DEBRIS AND DISCONNECTED EQUIPMENT AND CLEAN OUT EXISTING SPACES. REFER TO ARCHITECTURAL AND PLUMBING CONTRACT DOCUMENTS FOR DEMOLITION WORK.
- REMOVE AND DISCARD EXISTING PLUMBING ABANDONED STACKS, MAINS, BRANCHES AND VENTS SERVING FIXTURES TO BE DEMOLISHED. OBTAIN EXISTING RECORD DRAWINGS FROM OWNER.
- VERIFY PIPING SERVES ONLY PLUMBING FIXTURES INDICATED FOR DEMOLITION BEFORE SHUT-DOWN FOR DISCONNECTION. IDENTIFY EXISTING PIPING WHICH SERVES FIXTURES TO REMAIN. PROMPTLY NOTIFY ARCHITECT OF ACTIVE PIPING TO BE MAINTAINED WHEN LOCATED IN PARTITIONS TO BE DEMOLISHED.
- COORDINATE ALL SHUT-DOWNS, TIE-INS, ETC., WITH THE G.C. ELECTRICAL MAKE-SAFE OF PLUMBING EQUIPMENT REQUIRING DEMOLITION SHALL BE COMPLETED BY THE ELECTRICAL SUBCONTRACTOR.
- DEMOLITION SUBCONTRACTOR MUST PROTECT EXISTING SLAB, WALL, FENCING AND BUILDING STRUCTURE DURING DEMOLITION PHASE. DAMAGE TO EXISTING STRUCTURE SHALL BE REPAIRED AT DEMOLITION SUBCONTRACTORS EXPENSE.
- ALL DEMOLITION WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE NATIONAL, STATE AND LOCAL CODES, LAWS AND ORDINANCES.



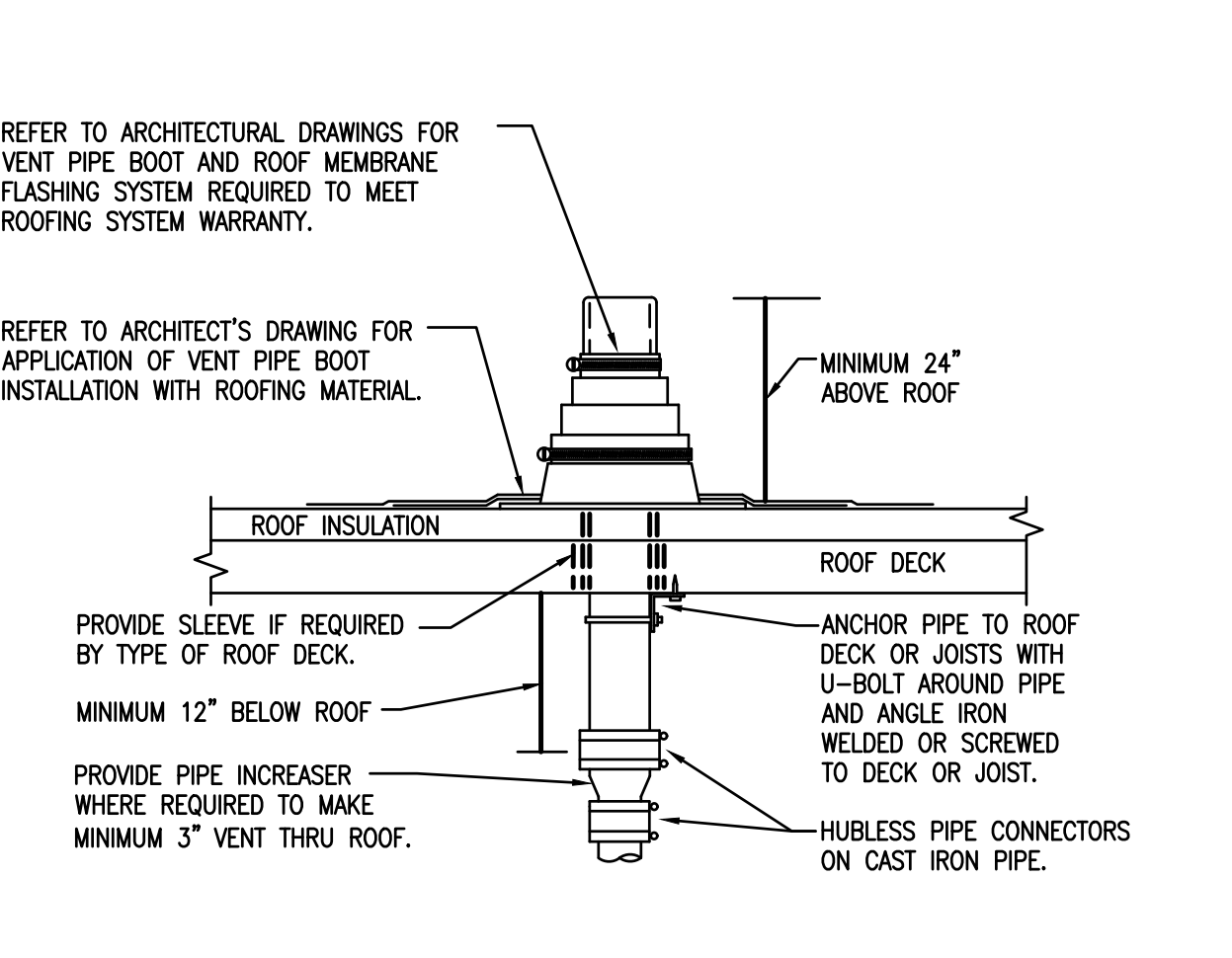
NOTES:
1) ALL EXPOSED GAS PIPING ON ROOF SHALL BE PAINTED WITH ONE COAT OF PRIMER AND FINISHED WITH TWO (2) COATS OF RUST INHIBITIVE SAFETY YELLOW PAINT. REFER TO ARCHITECTURAL CONTRACT DOCUMENTS.

5 ROOFTOP GAS FIRED UNIT PIPING DIAGRAM NTS



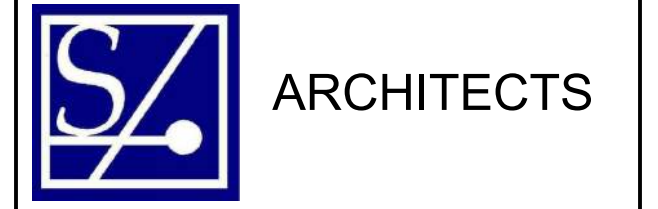
NOTES:
1) SUPPORTS SHALL BE INSTALLED A MINIMUM OF 5'-0" ON CENTER AND AT EACH CHANGE OF DIRECTION OF PIPING.
2) ALL EXPOSED GAS PIPING ON ROOF SHALL BE PAINTED WITH ONE COAT OF PRIMER AND FINISHED WITH TWO (2) COATS OF RUST INHIBITIVE PAINT. REFER TO ARCHITECTURAL CONTRACT DOCUMENTS.

6 ROOF GAS SUPPORT PIPING DIAGRAM NTS



NOTE:
REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VENT THRU ROOF MINIMUM 25'-FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. PROVIDE 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET ON VENT PIPE INSIDE BUILDING WITHIN SIX FEET OF VENT THRU ROOF LOCATION. VERIFY FLASHING AND COUNTER FLASHING WITH ROOFING CONTRACTOR.

7 VENT THRU ROOF DETAIL NTS



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HVAC UPGRADES
at
Hoxsie
Elementary School
55 Glenwood Drive, Warwick, RI 02889

for
Warwick School
Department

Revision Schedule	
Revision Number	Revision Date

SHEET TITLE
PLUMBING LEGEND,
NOTES & DETAILS

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HVAC UPGRADES

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Revision Number	Revision Date

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PLUMBING ENLARGED
DEMOLITION AND
RENOVATION PLANS -
AREA C

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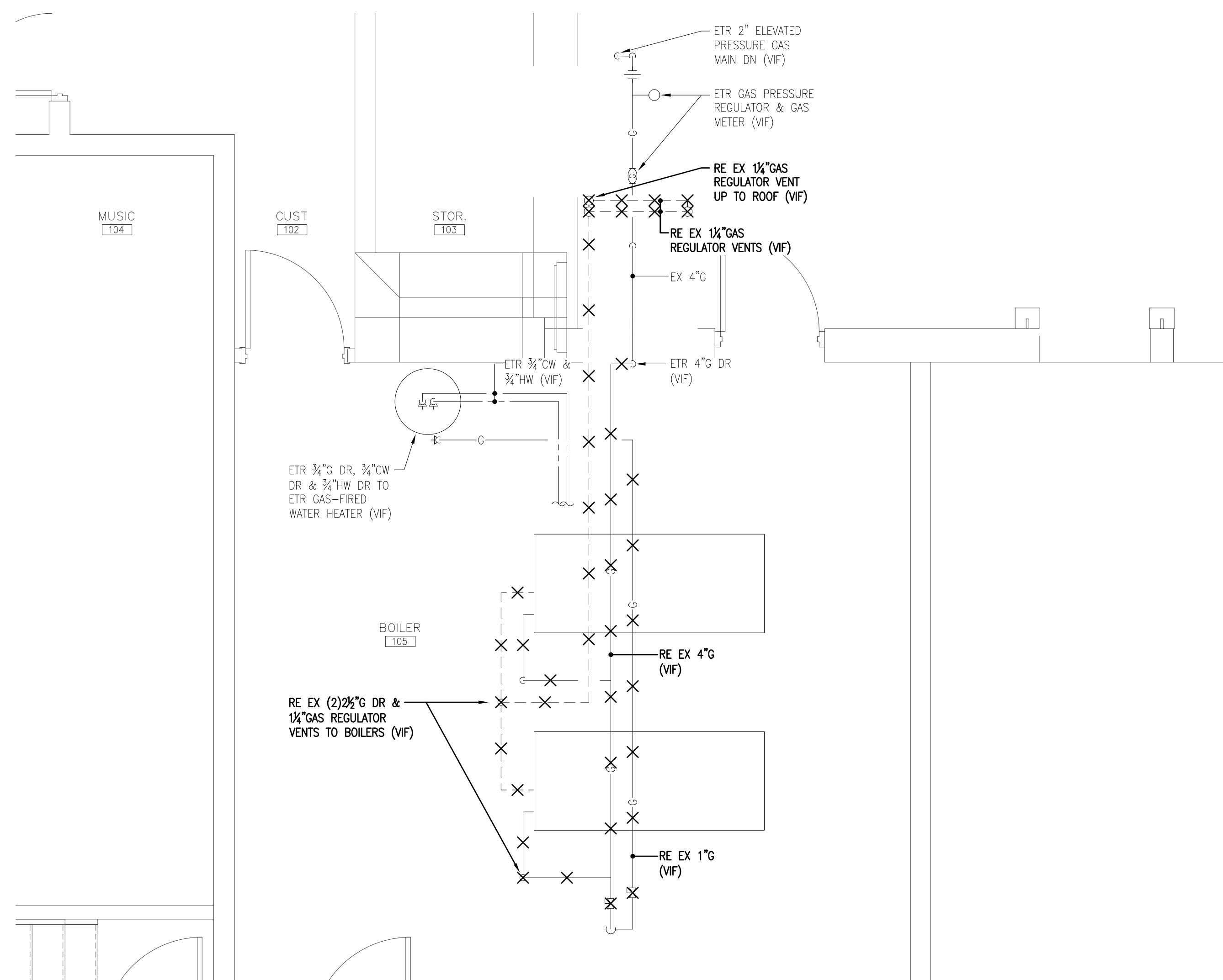
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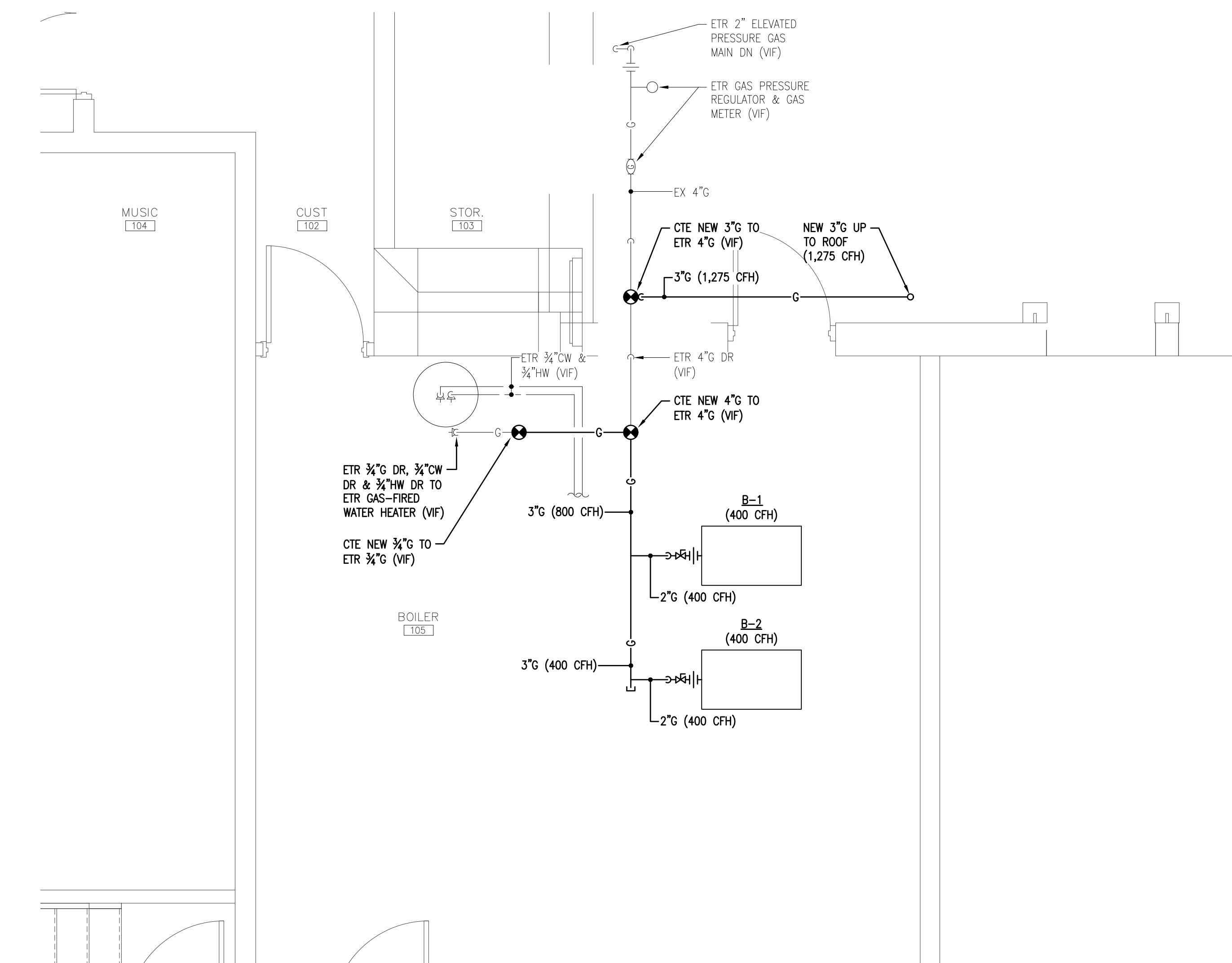
SHEET: 13 OF: 44

BER# 21228



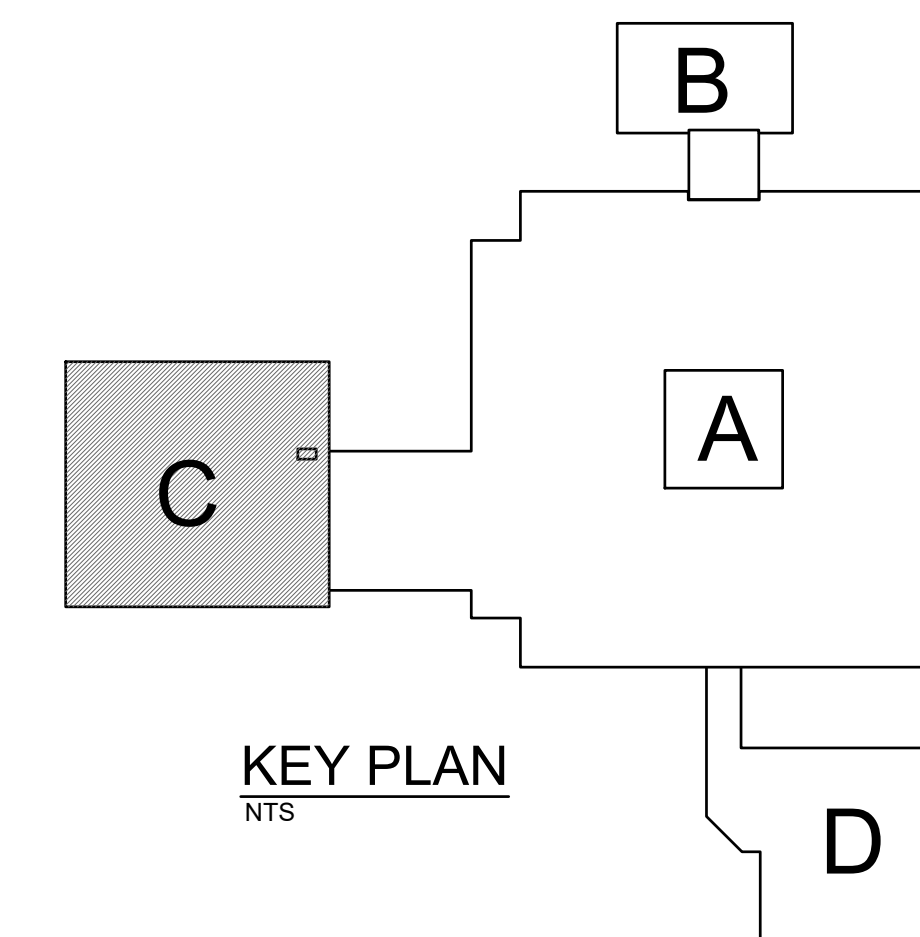
1 BOILER ROOM 105 PLUMBING DEMOLITION FLOOR PLAN

3/8" = 1'-0"



2 BOILER ROOM 105 PLUMBING RENOVATION FLOOR PLAN

3/8" = 1'-0"



KEY PLAN
NTS

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PLUMBING OVERALL DEMOLITION FLOOR PLAN

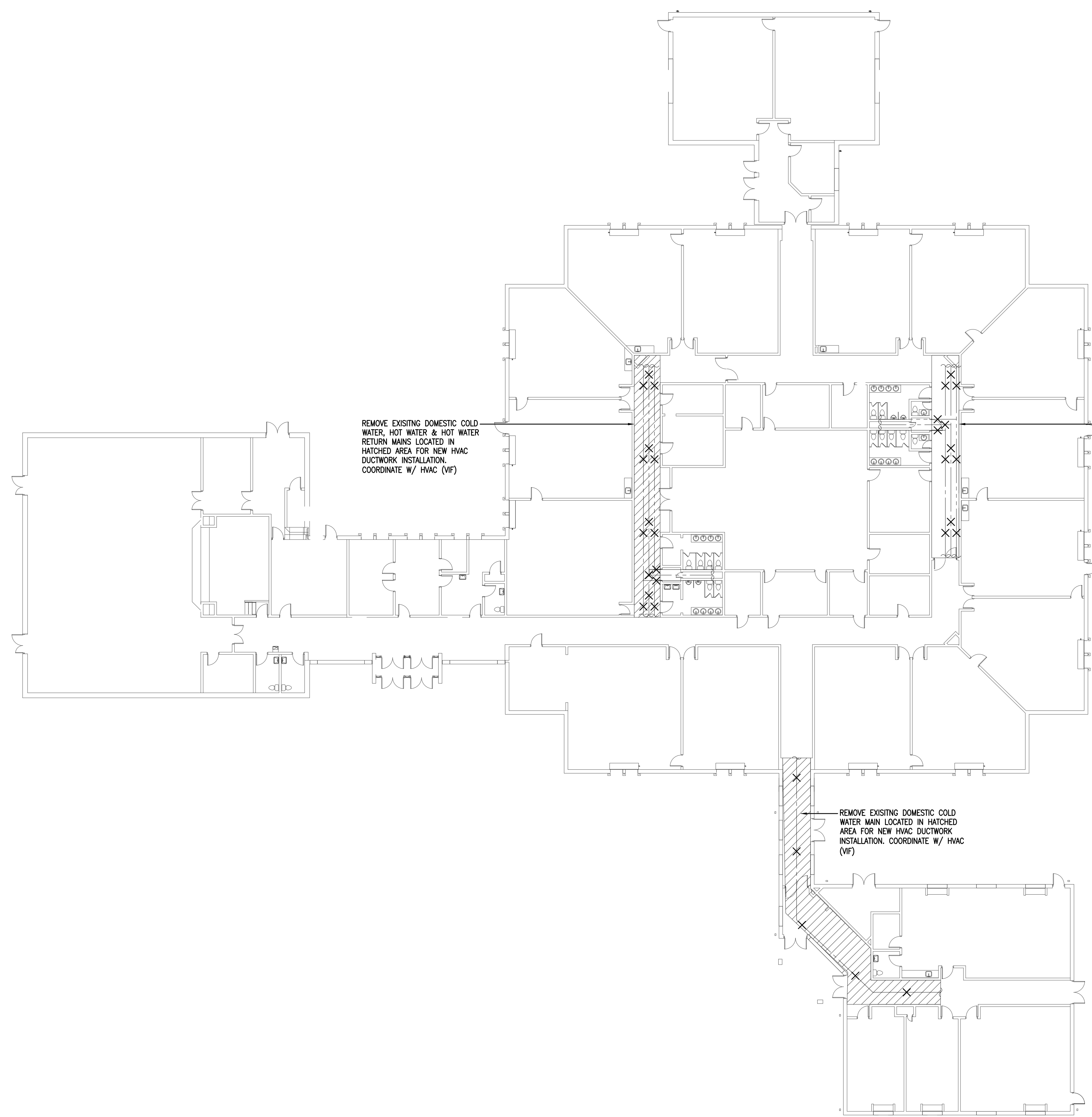
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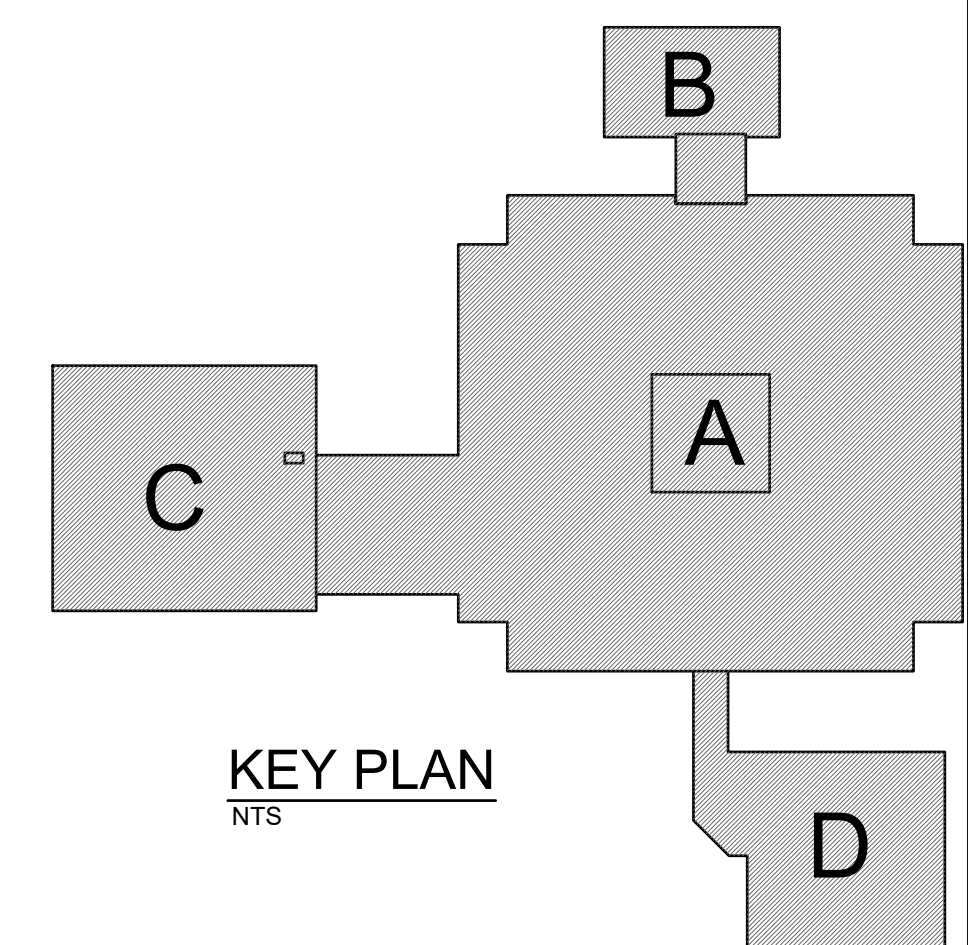
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1 PLUMBING FLOOR PLAN - DEMO
 1/16" = 1'-0"



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PLUMBING OVERALL FLOOR PLAN

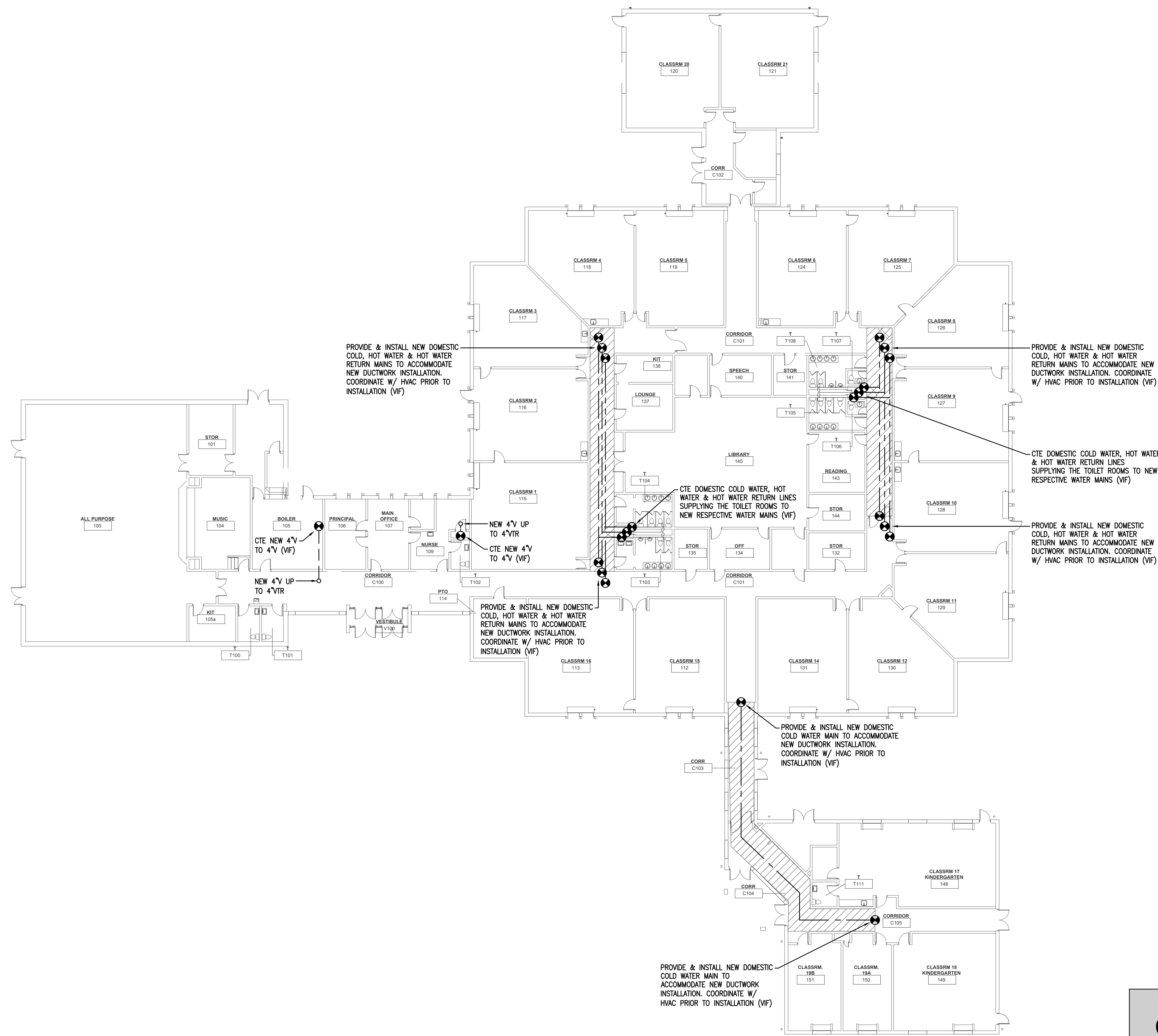
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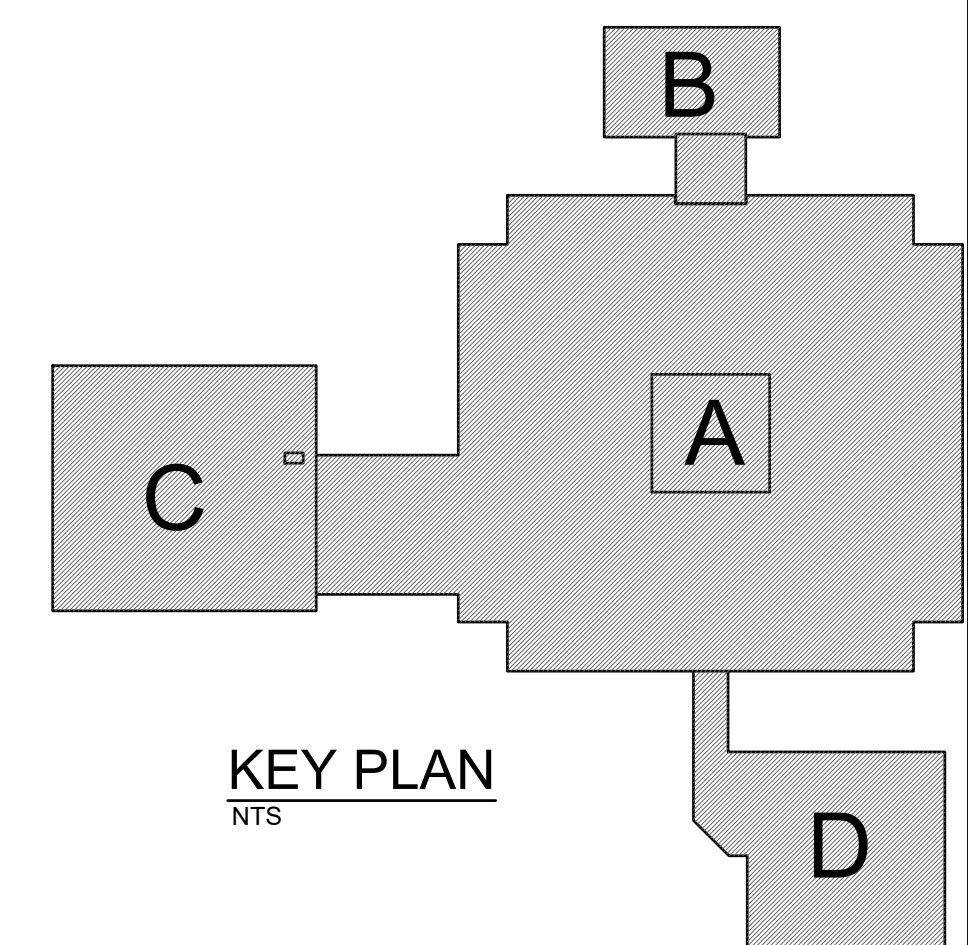
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1 PLUMBING FLOOR PLAN
 1/16" = 1'-0"



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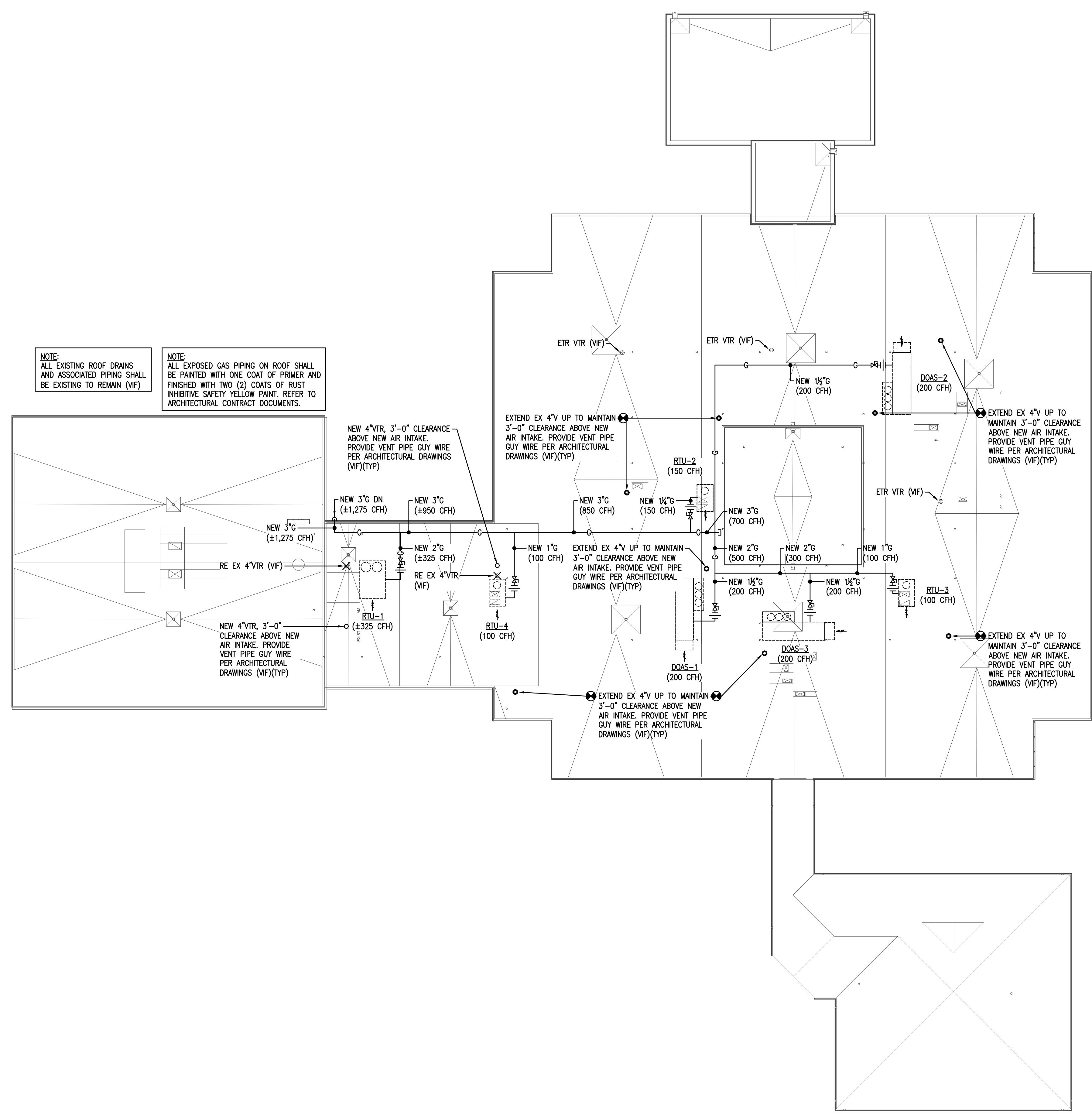
PLUMBING ROOF PLAN

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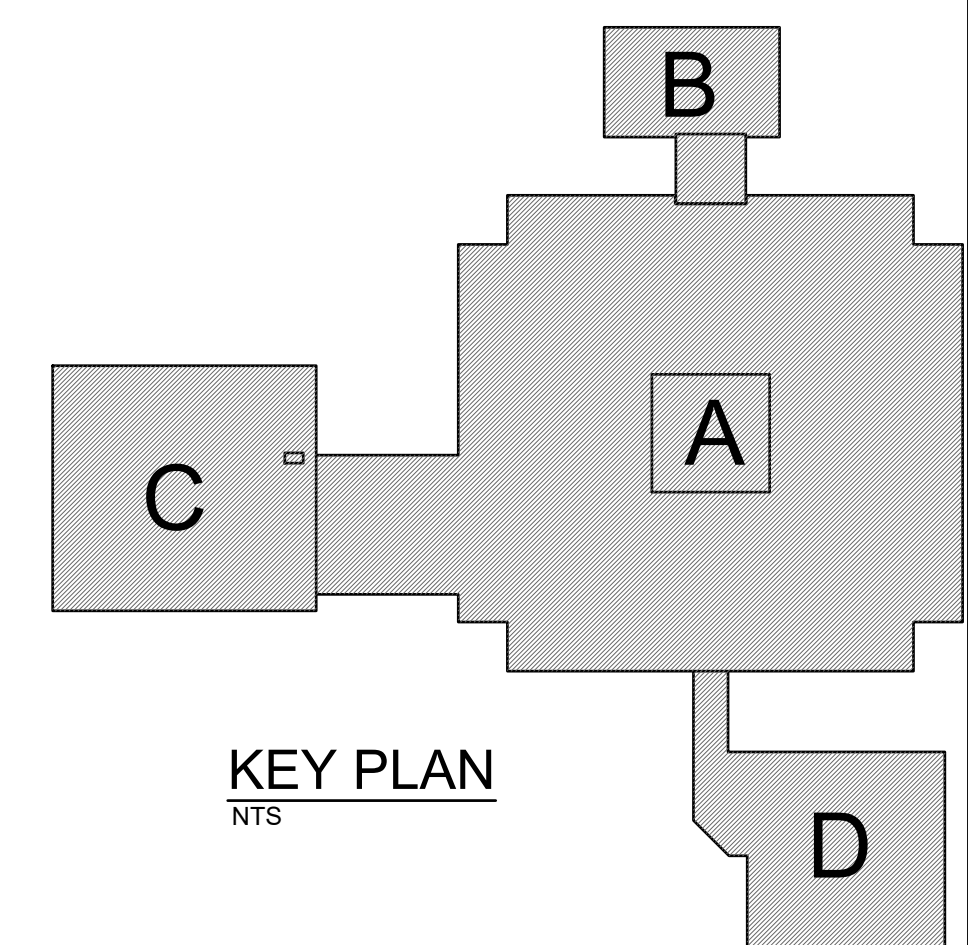
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 BER# 21228



1 PLUMBING ROOF PLAN
 1/16" = 1'-0"



ISSUED FOR PERMIT AND CONSTRUCTION

GENERAL NOTES	
1. PROVIDE LABOR, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THE WORK OF THIS SECTION COMPLY WITH ALL APPLICABLE FEDERAL AND STATE LAWS, AND ALL LOCAL CODES, BY-LAWS AND ORDINANCES. REQUEST INSPECTIONS FROM AUTHORITIES HAVING JURISDICTION. OBTAIN ALL PERMITS AND PAY FOR ALL FEES AND INSPECTION CERTIFICATES AS APPLICABLE AND/OR REQUIRED. ALL PERMITS AND CERTIFICATES SHALL BE TURNED OVER TO THE OWNER UPON COMPLETION OF THE WORK. ALL WORK, EQUIPMENT AND MATERIALS SHALL CONFORM TO THE BUILDING CONSTRUCTION RULES AND REGULATIONS.	
2. SUBMIT ALL DEVICES AND EQUIPMENT FOR REVIEW AND ARCHITECT/ENGINEER'S APPROVAL PRIOR TO PURCHASE.	
3. UOI, DUCTWORK SHALL BE MOUNTED AS HIGH AS POSSIBLE, EXCEPT THAT DUCTWORK HEIGHT SHALL BE ADJUSTED AS NECESSARY FOR THE PROPER INSTALLATION OF EQUIPMENT, PIPING, AND CONDUIT.	
4. UOI, FLEXIBLE DUCTS ARE ALLOWED ONLY AT CONNECTIONS TO DIFFUSERS AND GRILLES. FLEXIBLE DUCTS SHALL BE MAXIMUM 5'-0" LONG & MIN 2'-0", SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS ONLY, AND SHALL BE SUSPENDED OFF OF THE CEILING.	
5. WHERE BRANCH DUCT SIZES TO DIFFUSERS AND GRILLES ARE NOT INDICATED, SEE THE BRANCH DUCT COLUMN OF THE DIFFUSER AND GRILLE SCHEDULE. DUCTWORK VISIBLE THROUGH THE FACE OF DIFFUSERS, GRILLES, AND LOUVERS SHALL BE PAINTED BLACK. UOI, ACOUSTICAL LINING SHALL BE 1" THICK. DUCTWORK DIMENSIONS INDICATED ARE INSIDE CLEAR DIMENSIONS.	
6. CLEANING: UPON COMPLETION ALL SHEET METAL WORK SPECIFIED UNDER THIS CONTRACT IS TO BE CLEANED. ALL EQUIPMENT IS TO BE CLEANED, ALL TRIM INSTALLED, ALL PROTECTIVE OIL, TAPE OR OTHER MATERIALS USED TO PROTECT WORK ARE TO BE REMOVED. ALL DUCTS, FANS, AND EQUIPMENT SHALL BE THOROUGHLY CLEANED INSIDE AND OUTSIDE AND BLOWN OUT TO PREVENT AND DEBRIS FROM DAMAGING FAN SHIELDS OR DEBRIS HANGING THROUGH REGISTERS OR DIFFUSERS WHEN SYSTEMS ARE PLACED IN OPERATION. ALL TEMPORARY CONNECTIONS REQUIRED FOR BLOWING OUT THE SYSTEMS, CHEESECLOTH FOR ALL DUCT OPENINGS, AND ANY OTHER EQUIPMENT OR LABOR FOR CLEANING, SHALL BE PROVIDED BY THE HVAC CONTRACTOR. ANY DAMAGE TO CEILINGS BY THE HVAC CONTRACTOR SHALL BE RECTIFIED BY THEM AT NO ADDITIONAL CHARGE TO THE OWNER.	
7. AT THE COMPLETION OF THIS PROJECT, THE ENTIRE EFFECTED HVAC SYSTEM SHALL BE TESTED & BALANCED (T&B). THE HVAC T&B SUBCONTRACTOR SHALL UTILIZE AIRFLOWS SHOWN ON THESE PLANS TO ACCOMPLISH THIS. AIRFLOW T&B SHALL BE PERFORMED IN ACCORDANCE WITH AABC NATIONAL STANDARDS FOR FIELD MEASUREMENT AND INSTRUMENTATION OR ASHRAE SYSTEMS HANDBOOK.	
8. ALL WORK COMPLETED AS PART OF THIS CONTRACT SHALL BE GUARANTEED FOR A PERIOD OF (1) YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER.	
9. FURNISH A NEW CONTROL PLATFORM FOR ACQUISITION OF ALL NEW HVAC SYSTEM CONTROL PARAMETERS THAT SHALL SEAMLESSLY INTEGRATE WITH A NEW ENERGY MANAGEMENT SYSTEM VIA BACNET IP PROTOCOL, TRIDIUM JACE 6E OR SIMILAR. THE SERVER PLATFORM SHALL SUPPORT SUPERVISION, DATA LOGGING, ALARMING, SCHEDULING AND NETWORK MANAGEMENT FUNCTIONS PLUS BE CAPABLE OF WEB CONNECTIVITY. PROVIDE WITH 120VAC INPUT POWER MODULE PLUS OPTIONAL BATTERY KIT. BUILDING JACE PANEL SHALL BE INTEGRATED WITH WARWICK SCHOOLS ENERGY MANAGEMENT SYSTEM THROUGH LOCAL AREA NETWORK ETHERNET CONNECTION.	

ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
AH	AIR HANDLER
AHJ	AUTHORITY HAVING JURISDICTION
APD	AIR PRESSURE DROP
ATC	AUTOMATIC TEMPERATURE CONTROL
BB	BASE BOARD HEATER
BHP	BREAK HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BTU/HOUR
BMS	BUILDING MANAGEMENT SYSTEM
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CH	CABINET UNIT HEATER
COP	COEFFICIENT OF PERFORMANCE
CRD	CEILING RADIATION DAMPER
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
dB	DECIBELS
DN	DOWN
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE (DRY BULB)
EBB	ELECTRIC BASE BOARD
ECH	ELECTRIC CABINET HEATER
E.C.	ELECTRICAL CONTRACTOR
EDB	ENTERING DRY BULB TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
EWB	ENTERING WET BULB TEMPERATURE
'F	DEGREES FAHRENHEIT
FD	FIRE DAMPER
FMCS	FACILITIES MANAGEMENT & CONTROL SYSTEM
FN	FURNACE
FT	FEET
FT WG	FEET WATER GAUGE
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
G.C.	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HSPF	HEATING SEASON PERFORMANCE FACTOR
HW	HOT WATER
IN	INCHES
IN WG	INCHES WATER GAUGE
KW	KILOWATTS
L	LOUVER
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB
LLRT	LEAVING LIQUID REFRIGERANT TEMPERATURE
LWB	LEAVING WET BULB
MAX	MAXIMUM
MAU	MAKEUP AIR UNIT
MBH	THOUSANDS OF BTU / HOUR
M.C.	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
MOP	MAXIMUM OVERCURRENT PROTECTION
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE (DRY BULB)
ODB	OUTSIDE DRY BULB TEMPERATURE
OWB	OUTSIDE WET BULB TEMPERATURE
PH	PHASE
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
SD	SMOKE DETECTOR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SP	STATIC PRESSURE
SPD	STATIC PRESSURE DROP
SST	SATURATED SUCTION PRESSURE
TSP	TOTAL STATIC PRESSURE
T, TYP	TYPICAL
UOI	UNLESS OTHERWISE INDICATED
UV	UNIT VENTILATOR
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
WPD	WATER PRESSURE DROP

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
	EXISTING DUCTWORK, PIPING, AND EQUIPMENT TO REMAIN
	DUCTWORK (DOUBLE LINE)
	DUCTWORK WITH ACOUSTICAL LINING (DOUBLE LINE)
	DUCTWORK (SINGLE LINE)
	DUCTWORK WITH ACOUSTICAL LINING (SINGLE LINE)
	RECTANGULAR/ROUND SUPPLY AIR DUCTWORK UP
	RECTANGULAR/ROUND RETURN AIR DUCTWORK UP
	RECTANGULAR/ROUND EXHAUST AIR DUCTWORK UP
	RECTANGULAR/ROUND SUPPLY AIR DUCTWORK DOWN
	RECTANGULAR/ROUND RETURN AIR DUCTWORK DOWN
	RECTANGULAR/ROUND EXHAUST AIR DUCTWORK DOWN
	VOLUME DAMPER
	CONTROL DAMPER
	FIRE DAMPER OR CEILING RADIATION DAMPER
	SMOKE DAMPER
	COMBINATION FIRE/SMOKE DAMPER
	GRAVITY BACKDRAFT DAMPER
	REFRIGERANT PIPING
	COOLING COIL CONDENSATE PIPING
	ELBOW UP
	ELBOW DOWN
	FLOW DIRECTION
	PIPE CLEANOUT
	CONNECT TO EXISTING
	AIR ENTERING OPENING
	AIR LEAVING OPENING
	CO2 SENSOR
	SMOKE DETECTOR - DUCT MOUNTED
	SWITCH
	OCCUPANCY SENSOR
	THERMOSTAT OR TEMPERATURE SENSOR
	TEMPERATURE SENSOR (AVERAGING TYPE)
	TEMPERATURE SENSOR - DUCT MOUNTED
	CONTROL CONNECTION

TAG LEGEND	
EQUIPMENT (REQUIRING POWER)	EQUIPMENT DESIGNATION NUMBER
EQUIPMENT (NON-POWERED)	EQUIPMENT DESIGNATION NUMBER
VIEWPORT CALL-OUT	DESIGNATION DRAWING REFERENCE



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at
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for
Warwick School Department

Revision Schedule	
Revision Number	Revision Date

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MECHANICAL LEGEND & NOTES

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PACKAGED ROOFTOP HVAC UNIT SCHEDULE																																			
GENERAL			PERFORMANCE																		ELECTRICAL				PHYSICAL				REMARKS						
TAG	SERVICE	NOMINAL TONS	COOLING				SENSIBLE RECOVERY EFFICIENCY (%)		SUPPLY FAN						EXHAUST FAN						HEATING			OUTDOOR SOUND dBA	MCA	MOP	VOLTAGE	PHASE	WEIGHT (LBS)	# OF COMP.	MANUFACTURER MODEL	TYPE	RATINGS	FEATURES	INSTALL
			TOTAL MBH	SENSIBLE MBH	EER	IEER(I)/SEER(S)	HEATING	COOLING	CFM	ESP (N WG)	RPM	BHP	HP	CFM	ESP (N WG)	RPM	BHP	HP	INPUT (MBH)	OUTPUT (MBH)	THERMAL EFF. (%)														
DOAS-1	MAIN SCHOOL SOUTH & EAST	15.0	182.4	129.3	14.8	-	65.3	68.5	4325	2.0	2334	3.50	5.0	4000	1.5	1732	2.43	3.0	200	160	80	93.1	95.0	110	208	3	4159	2	TRANE OADG015C1	①	①	1 2 3 4 6	①②		
DOAS-2	MAIN SCHOOL WEST	12.0	142.9	104.2	14.7	-	66.7	69.9	3600	2.0	2221	2.61	5.0	3240	1.5	1985	1.88	3.0	200	160	80	93.1	80.1	100	208	3	4071	2	TRANE OADG012C1	①	①	1 2 3 4 6	①②		
DOAS-3	MAIN SCHOOL NORTH	15.0	183.6	130.8	14.8	-	63.2	66.5	4410	2.0	1999	3.62	5.0	3920	1.5	1716	2.37	3.0	200	160	80	93.1	95.0	110	208	3	4159	2	TRANE OADG015C1	①	①	2 3 4 6 8	①②		
RTU-1	ALL PURPOSE / GYM	25	284.7	219.7	10.8	16.0(I)	-	-	10,000	1.0	1709	6.35	(2) 4.6	-	-	-	-	-	320	260	80	-	123	150	208	3	2755	2	TRANE YHK300A	③	②	1 2 5 7	①②		
RTU-2	LIBRARY	6	83.1	62.5	12.2	17.7(I)	-	-	2,400	1.5	1267	1.38	3.0	-	-	-	-	-	150	121.5	80	-	38	50	208	3	1225	1	TRANE YHK072A	②	②	1 2 5 7	①②		
RTU-3	LIBRARY OFFICES/STOR.	5	60.0	39.0	12.9	17.1(S)	-	-	1610	1.0	1083	0.77	3.0	-	-	-	-	-	100	81	80	-	31	45	208	3	1126	1	TRANE YHK060A	②	②	1 2 5 7	①②		
RTU-4	FRONT OFFICES	4	46.6	36.5	12.9	17.1(S)	-	-	1600	1.0	918	0.49	3.0	-	-	-	-	-	100	81	80	-	28	40	208	3	1098	1	TRANE YHK048A	②	②	1 2 5 7	①②		

① PACKAGED DEDICATED OUTDOOR AIR UNIT, NATURAL GAS FIRED, DIRECT EXPANSION COOLING HORIZONTAL SUPPLY & RETURN, R-454BA, ROTARY WHEEL ENERGY RECOVERY EXCHANGER
 ② PACKAGED ROOFTOP HVAC UNIT, NATURAL GAS FIRED, DIRECT EXPANSION COOLING DOWNFLOW SUPPLY & RETURN, R-454BA, UNIT SHALL CONTROL SPACE TEMPERATURE
 ③ PACKAGED ROOFTOP HVAC UNIT, NATURAL GAS FIRED, DIRECT EXPANSION COOLING HORIZONTAL SUPPLY & RETURN, R-454BA, UNIT SHALL CONTROL SPACE TEMPERATURE

① COOLING: 81°F EDB/68°F EWB, 95°F ODB, 78°F OWB HEATING: 7°F ODB, 70°F EDB
 ② COOLING (ARI): 80°F EDB/67°F EWB, 95°F ODB HEATING (ARI): 7°F ODB, 70°F EDB

① FULL PERIMETER, SEISMIC ISOLATION ROOF CURB, NOVIA OR EQUAL W/ MIN 2" DEFLECTION
 ② MODULATING HOT GAS REHEAT COIL
 ③ ERV WHEEL SECTION, POLYMER CONSTRUCTION
 ④ POWERED EXHAUST, DIRECT DRIVE W/VFD & ISOLATION DAMPERS

⑤ COMPARATIVE ENTHALPY ECONOMIZER W/BAROMETRIC RELIEF DAMPER
 ⑥ UC600 MICROPROCESSOR CONTROLLER W/BACNET IP COMM. CARD
 ⑦ MICROPROCESSOR CONTROLLER W/BACNET IP COMM. CARD
 ⑧ PROVIDE WITH VIBRATION ISOLATION SPRING RAILS WITH MIN 2" DEFLECTION ON STEEL DUNNAGE PROVIDED BY OTHERS. COORDINATE EXACT EQUIPMENT SIZING AND LOCATION WITH STRUCTURAL.

① SUPPLY AIR DUCT SMOKE DETECTOR, FURNISHED AND INSTALLED BY M.C., WIRING AND FIRE ALARM SYSTEM INTERLOCK BY E.C.
 ② ADHERE TO ALL MANUFACTURER'S INSTALLATION DETAILS AND REFERENCE DETAILS ON SHEET M0.3

DIFFUSER AND GRILLE SCHEDULE							
GENERAL		PHYSICAL			REMARKS		
TAG	SIZE (IN)	BLOW PATTERN	BRANCH DUCT (IN)	MANUFACTURER MODEL	TYPE	FEATURES	INSTALL
A6	9x9	A4-L	6ø	PRICE SMD	①	①	①②
A8	9x9	A4-L	8ø	PRICE SMD	①	①	①②
A10	12x12	A4-L	10ø	PRICE SMD	①	①	①②
A15	15x15	A4-L	12ø	PRICE SMD	①	①	①②
BB	8x8	B4A-S	8x8	PRICE 520	②	②	①②③
B14	14x10	B4A-S	14x10	PRICE 520	②	②	①②③
Y6	6x6	Y1-S	6x6	PRICE 530	③	②	①②③
Y48	48x28	Y1-S	48x28	PRICE 530	③	②	①②③
Z12	24x12	Z1-L	22x10	PRICE 530	③	①	①②③
Z24	24x24	Z1-L	22x22	PRICE 530	③	①	①②③

① SQUARE PLAQUE SUPPLY DIFFUSER, FLUSH FACE, 24"x24" MODULE, ROUND NECK, STEEL, WHITE
 ② SUPPLY GRILLE, DOUBLE DEFLECTION BLADES ON 3/4" CENTERS, FRONT BLADES PARALLEL TO LONG DIMENSION, STEEL, WHITE
 ③ RETURN/EXHAUST GRILLE, 45° FIXED BLADES ON 3/4" CENTERS, BLADES PARALLEL TO LONG DIMENSION, STEEL, WHITE

① LAY-IN T-BAR CEILING MOUNT ③ INTEGRAL VOLUME DAMPER
 ② SURFACE MOUNT ④ INTEGRAL RADIATION DAMPER

① WHERE NO BRANCH DUCT SIZE IS INDICATED ON PLAN, USE BRANCH DUCT SIZE INDICATED HEREIN
 ② PROVIDE A DUCT MOUNTED VOLUME DAMPER WHETHER OR NOT A DUCT MOUNTED VOLUME DAMPER IS INDICATED ON PLAN. EXCEPTIONS:
 • TRANSFER AIR APPLICATIONS (GRILLE IS NOT CONNECTED BY A DUCTWORK SYSTEM TO A FAN)
 • EXHAUST AND RETURN GRILLES WHERE ONLY ONE GRILLE SERVES THE FAN/AIR HANDLING SYSTEM
 ③ PROVIDE A 1" THICK ACOUSTICALLY LINED PLENUM, SAME SIZE AS DIFFUSER/GRILLE X HEIGHT/DEPTH NECESSARY TO CONNECT BRANCH DUCT INDICATED

PATTERN: A4-L, B4A-S, Y1-S, Z1-L

TAG LEGEND: TYPICAL FOR ## DIFFUSERS/GRILLES, TAG, BALANCE TO ## CFM

DUCT SILENCER SCHEDULE																							
GENERAL		PERFORMANCE										PHYSICAL						REMARKS					
TAG	SERVICE	AIRFLOW					DYNAMIC INSERTION LOSS (dB) OCTAVE BAND (HZ)					DIMENSIONS			MANUFACTURER MODEL	TYPE	RATINGS	FEATURES	INSTALL				
		CFM	FACE AREA (SQ FT)	FPM	APD (N WG)	DIRECTION	63	125	250	500	1000	2000	4000	8000						ROUND DIAMETER (IN)	RECTANGULAR WIDTH (IN)	RECTANGULAR HEIGHT (IN)	LENGTH (IN)
DS-1	RTU-1 SUPPLY AIR	10,000	10.2	978	0.22	SUPPLY	7	9	14	14	7	7	7	3	-	46	32	36	KINETICS 46 KCRS-F/1.5	①	①	①	①

① RECTANGULAR, GLASS FIBER MEDIA ① AIR PRESSURE DROP (APD) AND ACOUSTICAL DATA ARE IN ACCORDANCE TO ASTM E477 ① 22 GAUGE GALVANIZED STEEL CASING, 2" SLIP CONNECTIONS ① PROVIDE MIN. 18" LONG TRANSITION FITTINGS FROM NOMINAL DUCT DIMENSION TO ATTENUATOR DIMENSION AS INDICATED ON PLANS

CABINET UNIT HEATER SCHEDULE																
GENERAL		PERFORMANCE				ELECTRICAL				PHYSICAL		REMARKS				
TAG	LOCATION	MBH	GPM	WPD (FT WG)	LAT (°F)	CFM	FAN SPEED	WATTS	HP	VOLTAGE	PHASE	MANUFACTURER MODEL	TYPE	RATINGS	FEATURES	INSTALL
CUH-A	SEE DWG	11.3	1.13	0.38	105.7	230	HIGH	-	1/15	120	1	STERLING RC-1200	①	①	①②	①②
UH-B	SEE DWG	12.4	1.24	0.1	86	450	H	16	-	115	1	STERLING HS-24	②	①	①②	①②

① RECESSED CEILING MOUNT, BOTTOM/FRONT SUPPLY & RETURN ① 160°F EWT, 140°F LWT, 60°F EAT ① BAKED ENAMEL FINISH, COLOR SELECTABLE BY OWNER ① SEE DETAIL 5/MA1.3
 ② HORIZONTAL HOT WATER UNIT HEATER ② SINGLE ROW COIL W/ 3/8" HWS&R CONNECTIONS ② SELECT AUTOMATIC BALANCING VALVE FOR GPM INDICATED

DUCT MOUNTED HOT WATER COIL SCHEDULE																		
GENERAL		PERFORMANCE							PHYSICAL				REMARKS					
TAG	LOCATION	AIR SIDE			WATER SIDE				DUCT WIDTH (IN)	DUCT HEIGHT (IN)	ROWS	FINS PER INCH	MANUFACTURER MODEL	TYPE	RATINGS	FEATURES	INSTALL	
		MBH	CFM	FPM	APD (N WG)	EAT (°F)	LAT (°F)	GPM										WPD (FT WG)
HWC-A1	SEE DWG	9.5	250	600	0.151	70	105.2	1.3	0.30	145	12	6	1	12.5	TRANE DT0B06010	①	①②③	①②
HWC-A2	SEE DWG	7.5	225	540	0.108	70	97.8	1.0	0.30	145	12	6	1	9.2	TRANE DT0B06010	①	①②③	①②
HWC-B1	SEE DWG	19.5	500	500	0.095	70	106.1	1.95	0.65	140	14	12	1	9.2	TRANE DT0B12012	①	①②③	①②
HWC-C1	SEE DWG	20.5	550	550	0.130	70	104.5	2.1	0.65	140	14	12	1	12.5	TRANE DT0B12012	①	①②③	①②
HWC-D1	SEE DWG	20.0	600	600	0.152	70	100.9	2.0	0.65	140	14	12	1	12.5	TRANE DT0B12012	①	①②③	①②
HWC-E1	SEE DWG	24.0	650	557	0.133	70	104.2	1.8	0.71	140	16	12	1	12.5	TRANE DT0B12014	①	①②③	①②
HWC-F1	SEE DWG	10.8	400	576	0.143	70	95	1.08	0.30	140	12	10	1	9.2	TRANE DT0B09010	①	①②③	①②

① SINGLE OR TWO ROW SERPENTINE, SAME END CONNECTIONS ① PERFORMANCE CERTIFIED IN ACCORDANCE TO ARI 410 ① COPPER HEADER, 0.020" THICK COPPER TUBES, ALUMINUM FINS ① SEE DETAIL 4/MA1.3
 ② 160.0°F EWT, 0.00025 FOULING FACTOR ② 3/8" HWS & RETURN CONNECTIONS ② SELECT AUTOMATIC BALANCING VALVE FOR GPM INDICATED
 ③ HEATING COILS ARE SIZED FOR PEAK DEMAND WHICH OCCURS DURING UNOCCUPIED HOURS. LAT TO BE 95°F MAX DURING OCCUPIED HOURS

PUMP SCHEDULE													
GENERAL		PERFORMANCE			ELECTRICAL			PHYSICAL		REMARKS			
TAG	SERVICE	GPM	TDH (FT WG)	RPM	WATTS/HP	VOLTAGE	PHASE	PIPE CONNECTION (IN)	MANUFACTURER MODEL	TYPE	RATINGS	FEATURES	INSTALL
P-B1.B2	BOILER PUMP	18.6	10	2800	480 W	120	1	1-1/2	TACO VR15M	①	①	①②	①②
P-1.2	SYSTEM PUMPS	~56	45	-	2 HP	208	3	1-1/2	TACO SKS1507D	②	①	①③	①③

① CARTRIDGE CIRCULATOR ① WATER AT 160°F ① ALL IRON, ECM MOTOR ① SEE DETAIL 1, 2, & 3/MA1.3
 ② VERTICAL INLINE PUMP WITH INTEGRAL VFD ② ANSI B16.1 CLASS 125 (175 PSIG AT 250°F) ② PUMP ENABLE/DISABLE BASED ON BOILER CONTROLLER
 ③ ALL IRON, MOTOR WITH VFD ③ LEAD/LAG CONFIGURED, WITH AUTOMATIC CHANGEOVER DAILY

BOILER SCHEDULE																		
GENERAL		PERFORMANCE							ELECTRICAL			PHYSICAL			REMARKS			
TAG	LOCATION	MAXIMUM FIRE			MINIMUM FIRE				WATER SIDE			WEIGHT (LBS)	MANUFACTURER MODEL	TYPE	RATINGS	FEATURES	INSTALL	
		INPUT MBH	GROSS IBER OUTPUT MBH	NET IBER RATING MBH	THERMAL EFFICIENCY (%)	AFUE (%)	INPUT MBH	OUTPUT MBH	GPM	LWT (°F)	AMPS							VOLTAGE
B-1.2	BOILER ROOM 105	399	371	-	93	-	39.9	38.7	30	160	10	120	1	P-K MACH CM-399	①	①	①②③④	①

① NATURAL GAS FIRED, CONDENSING, DIRECT VENT AND COMBUSTION AIR ① WATER SIDE AT 135°F EWT, MAXIMUM FIRE ① SIDEWALL CONCENTRIC VENT ASSEMBLY ① SEE DETAIL 1/MA1.3
 ② CONDENSATE NEUTRALIZATION KIT ② FLOOR MOUNTING STAND
 ③ CSD-1 SAFETY CONTROL



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for
Warwick School Department

Revision Schedule	
Revision Number	Revision Date

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MECHANICAL SCHEDULES

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SHEET: 18 OF: 44

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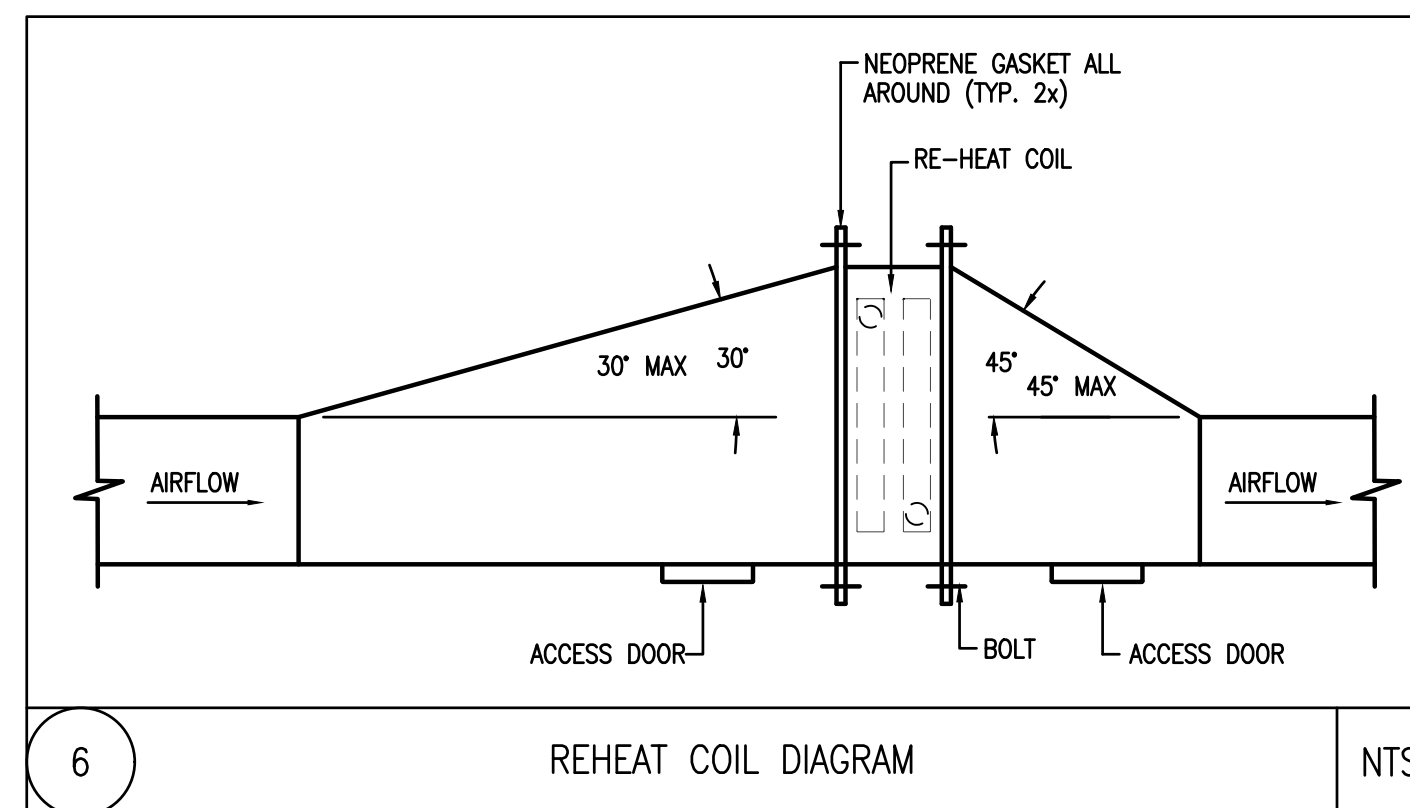
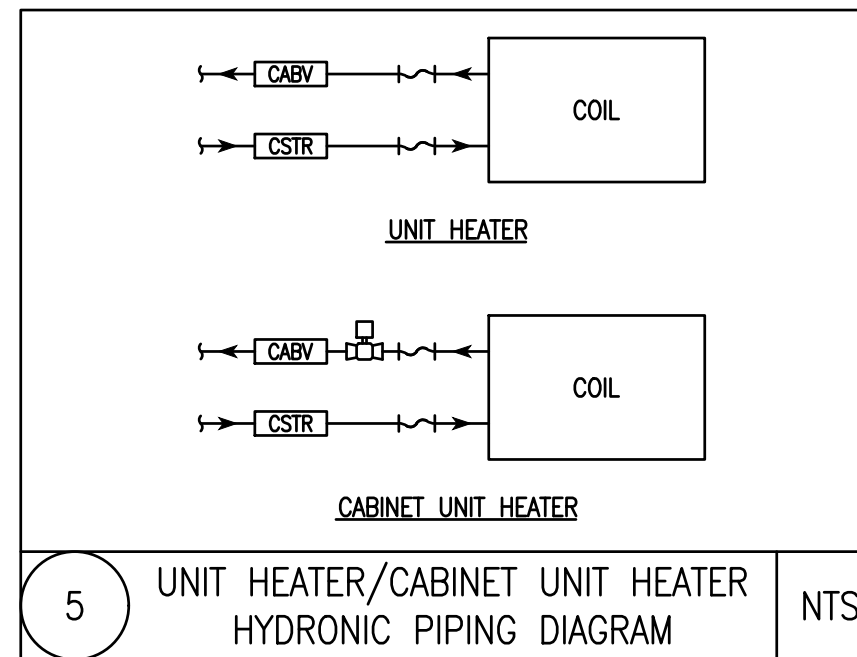
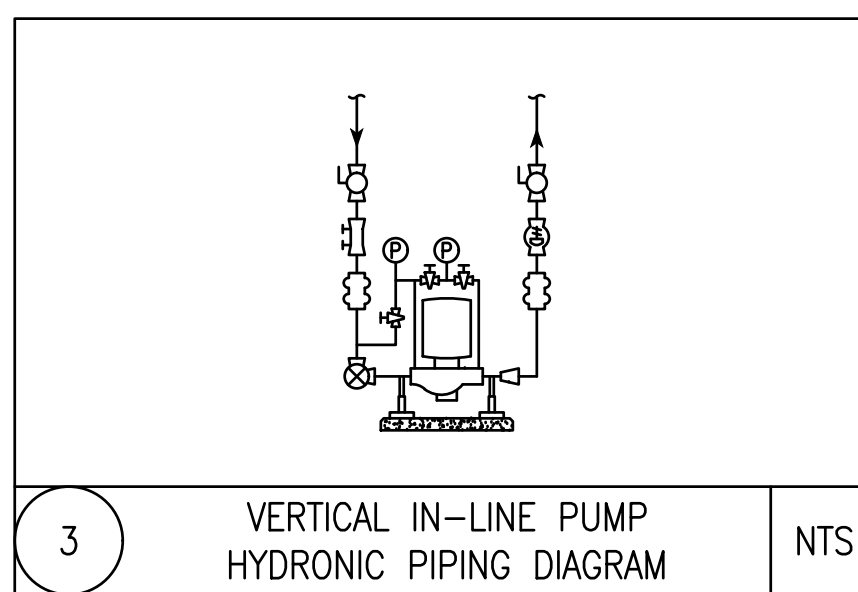
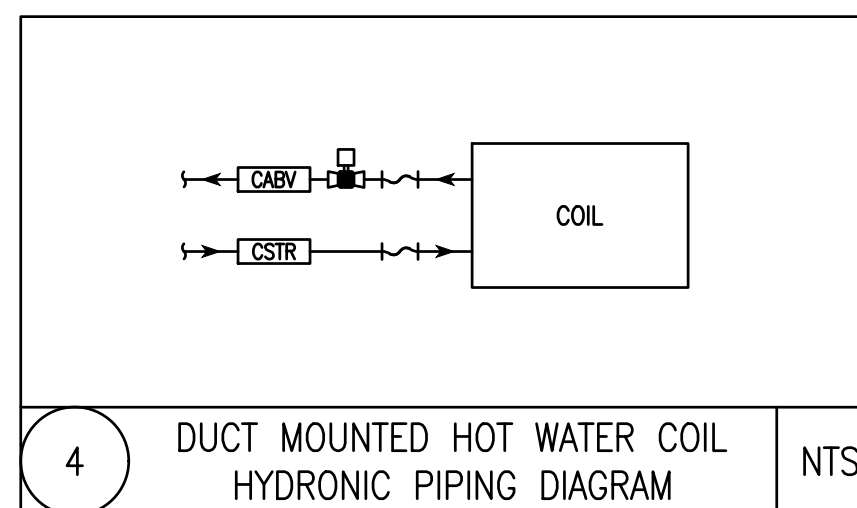
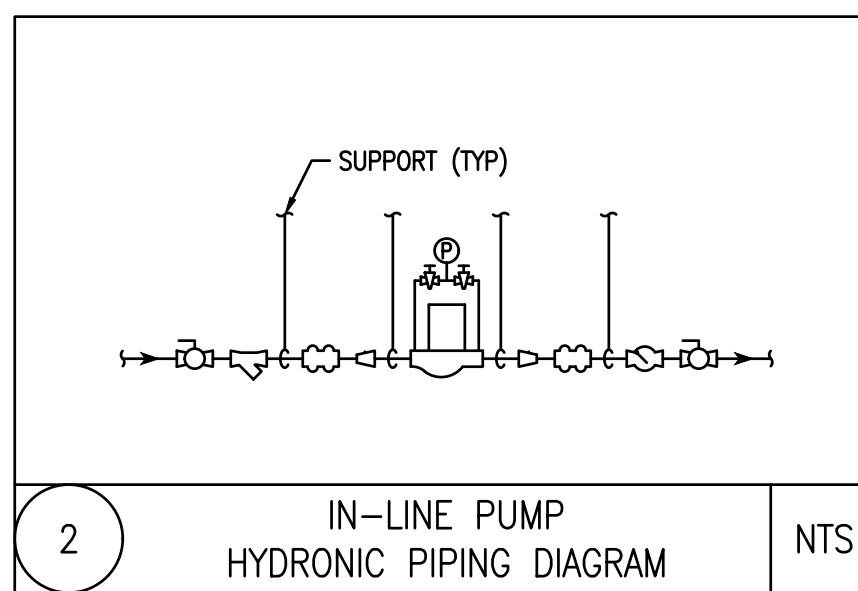
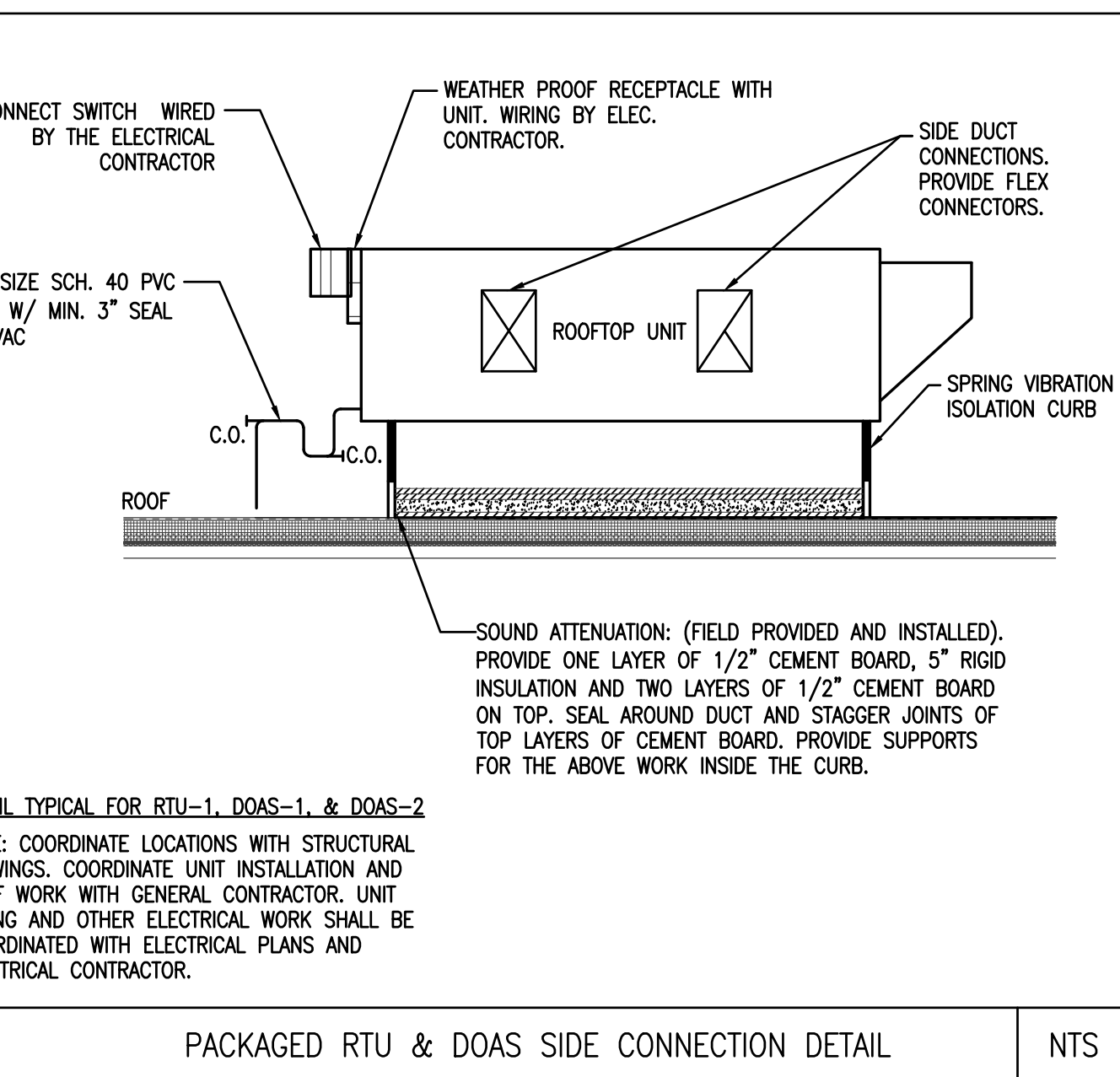
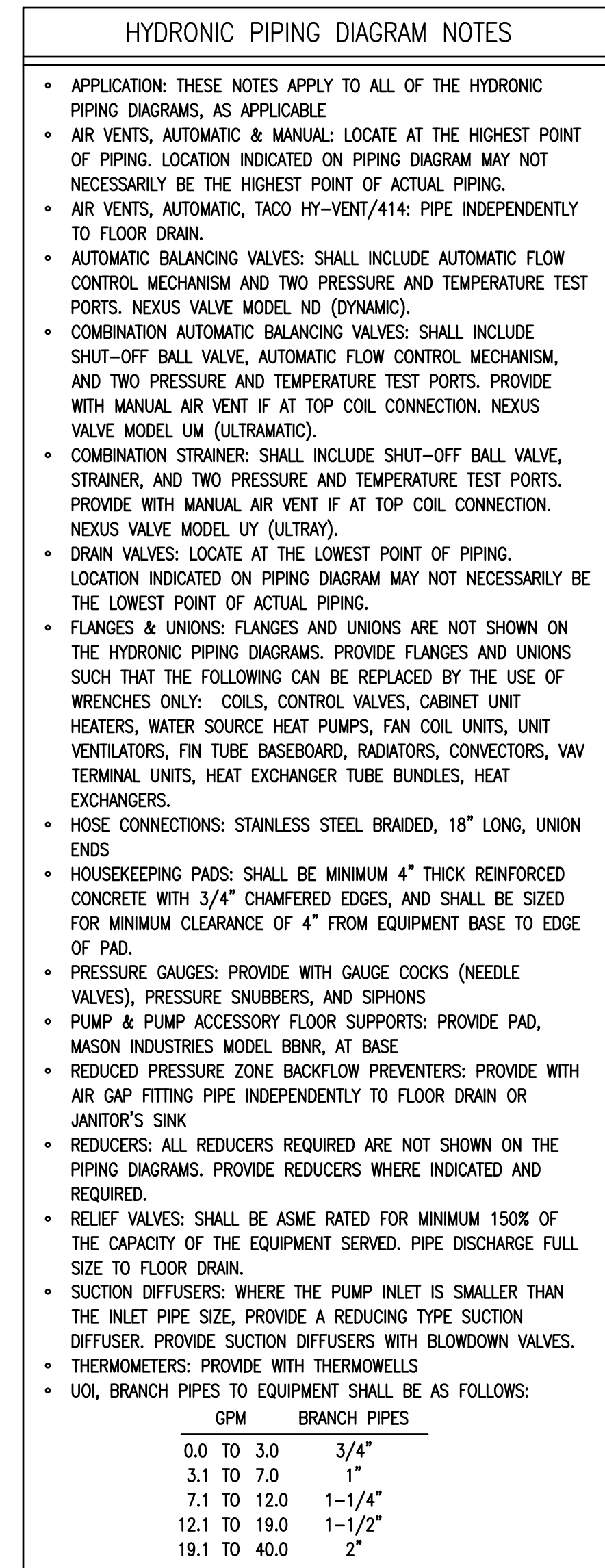
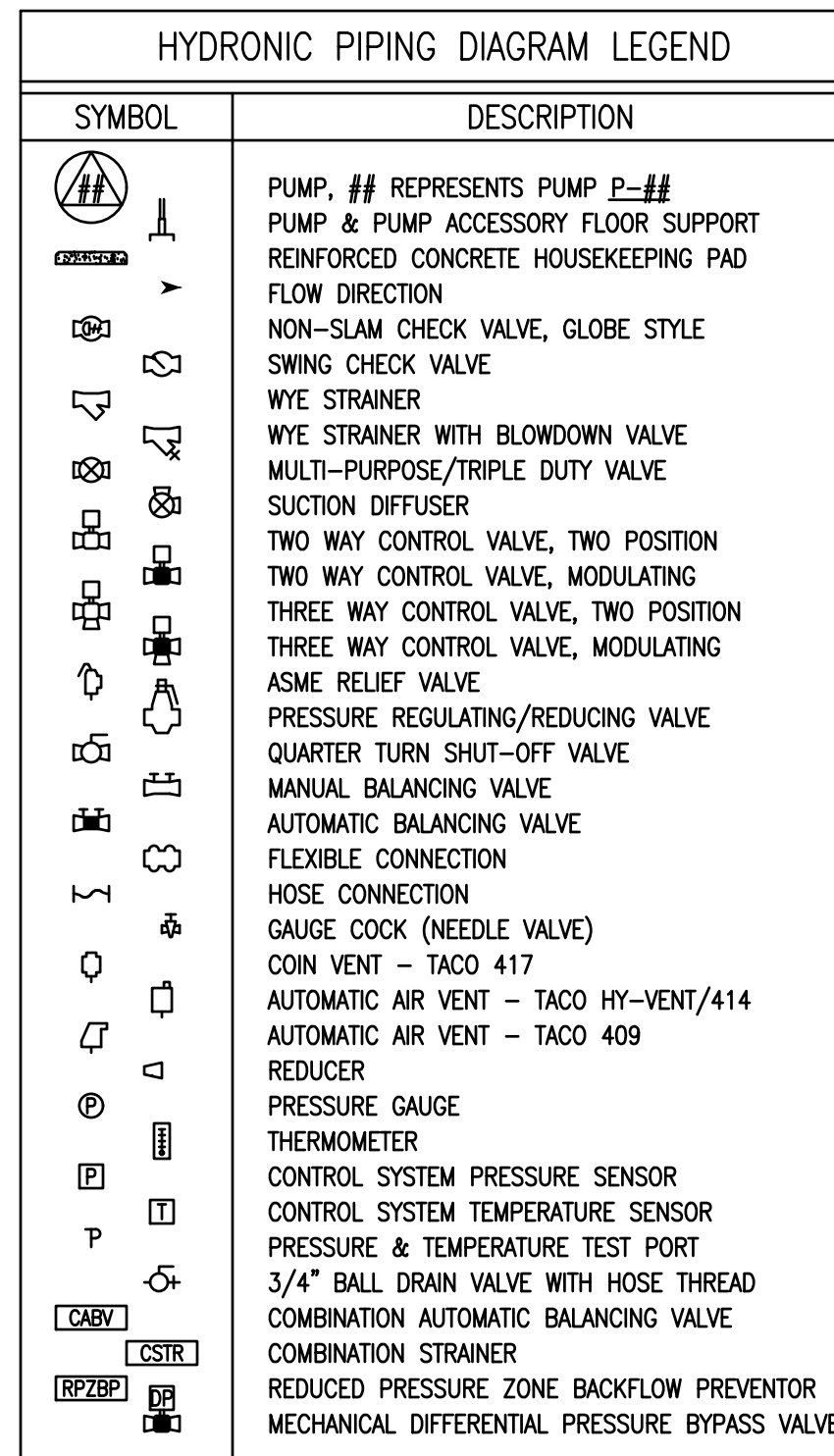
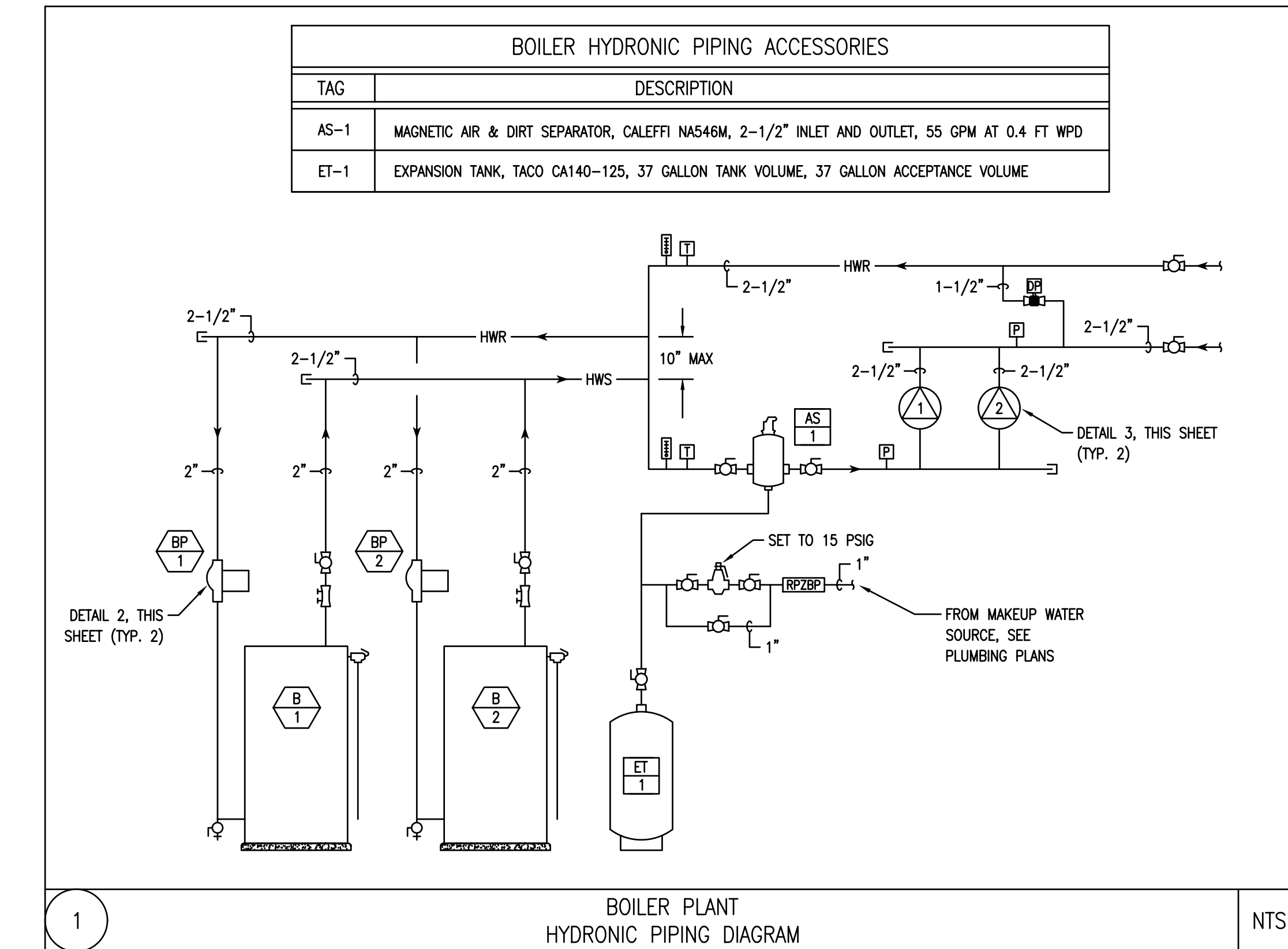
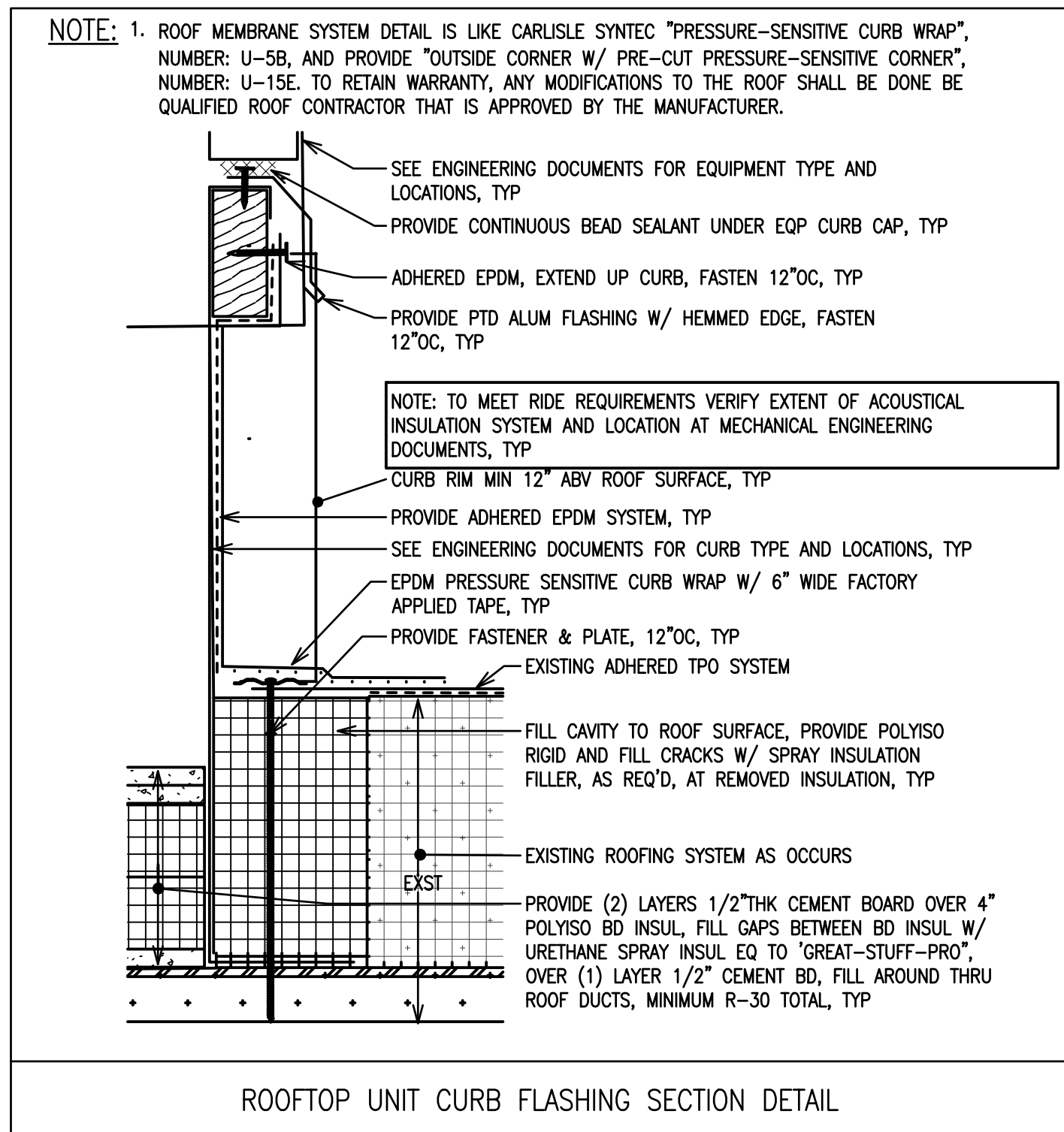
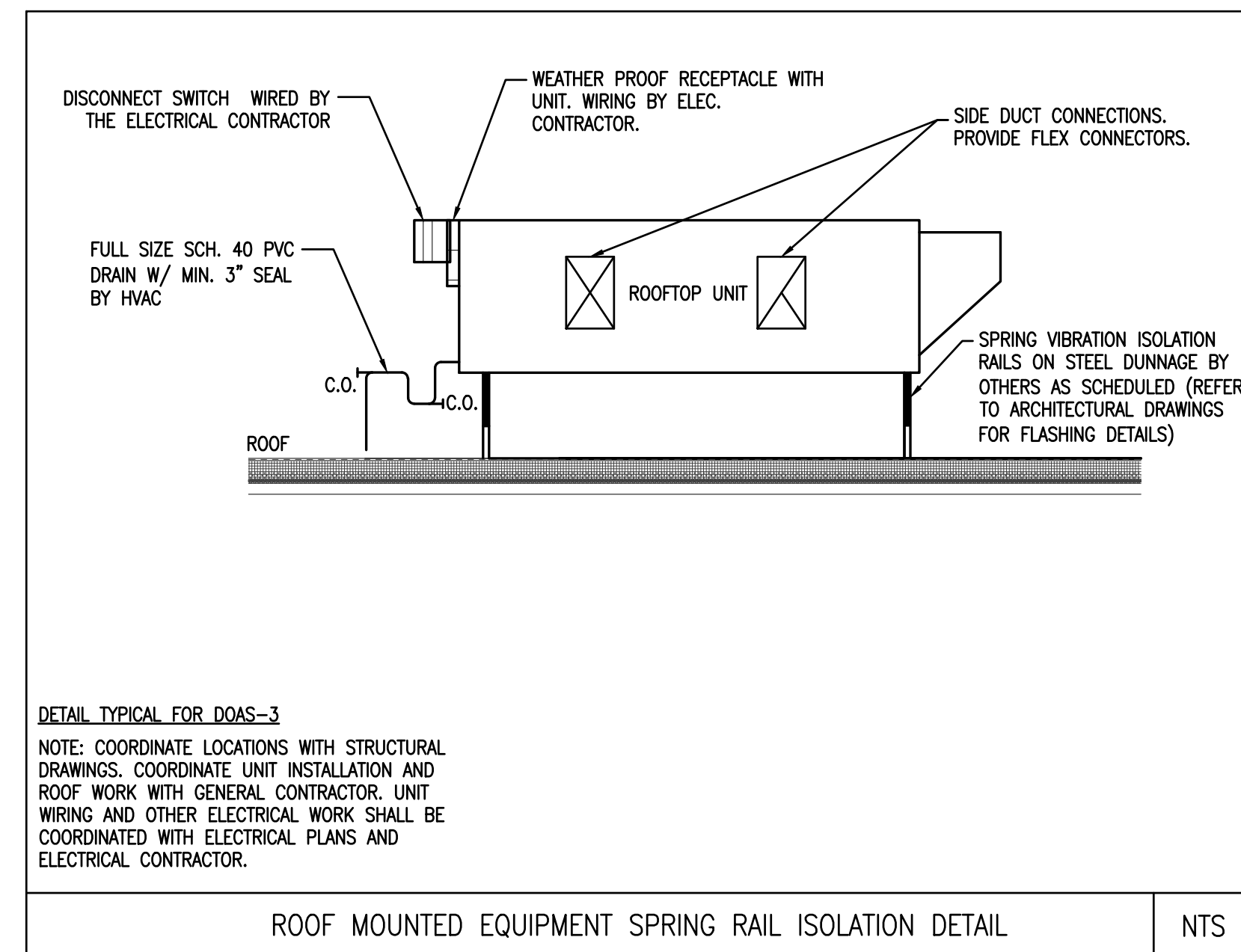
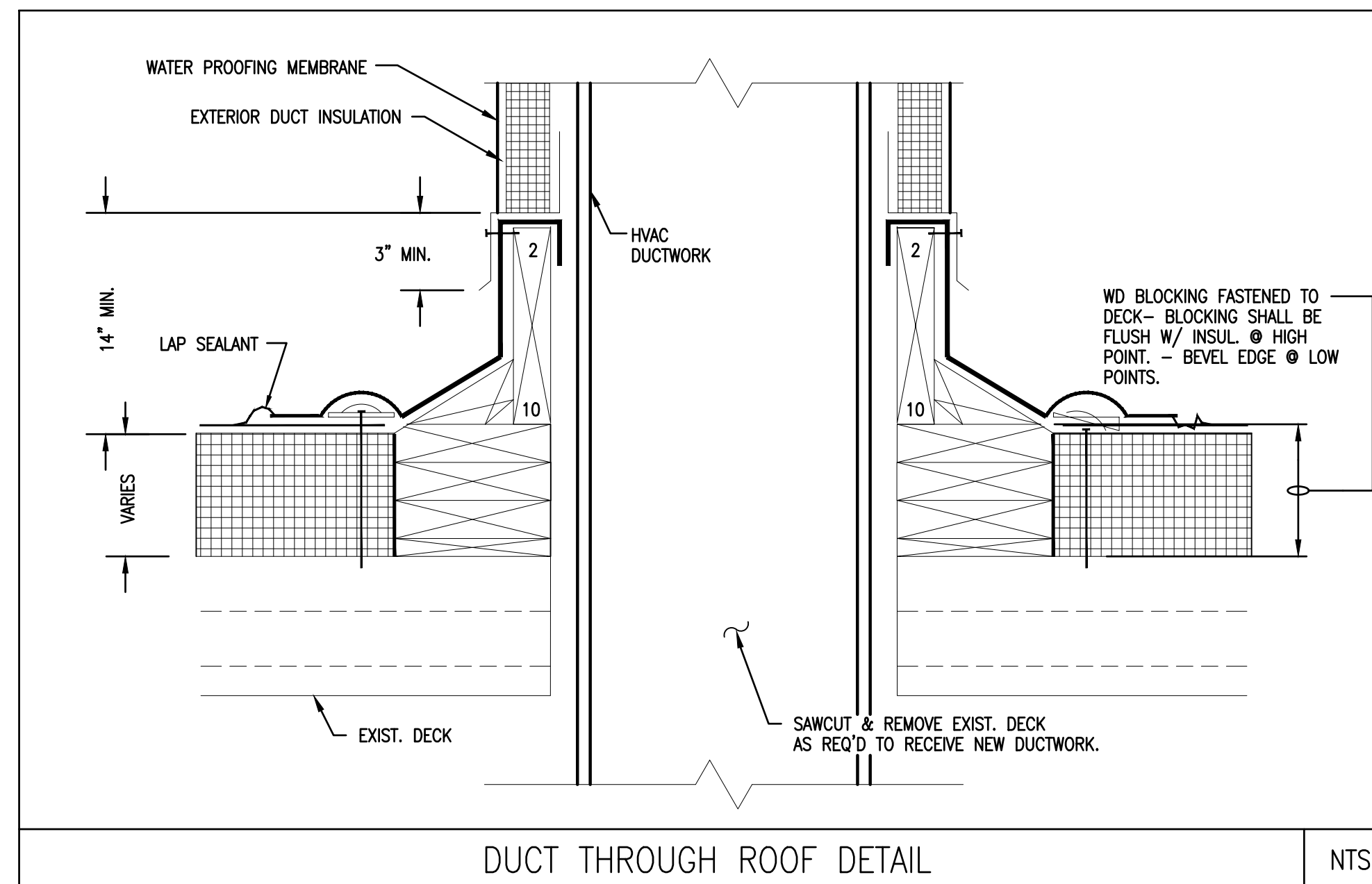
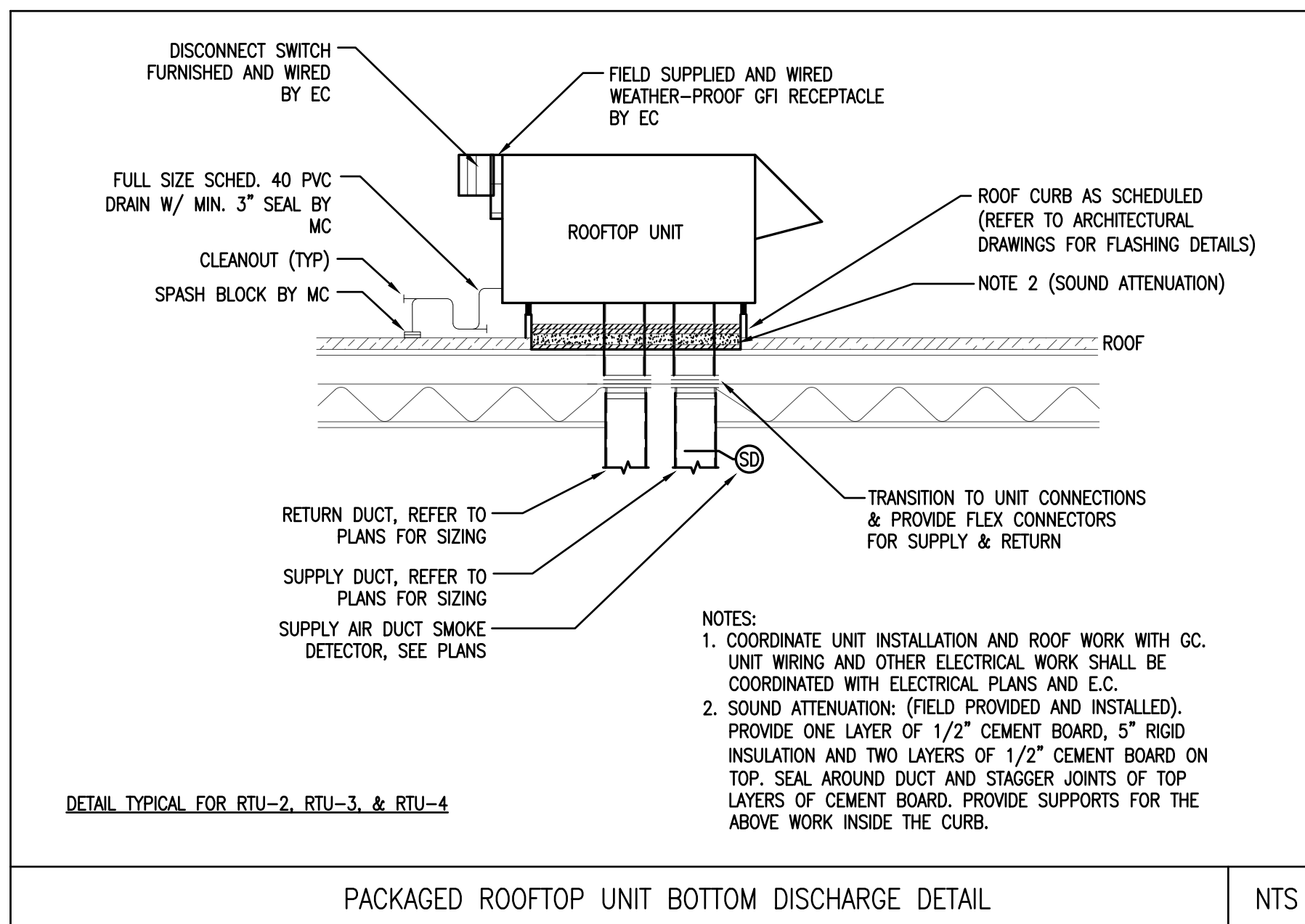
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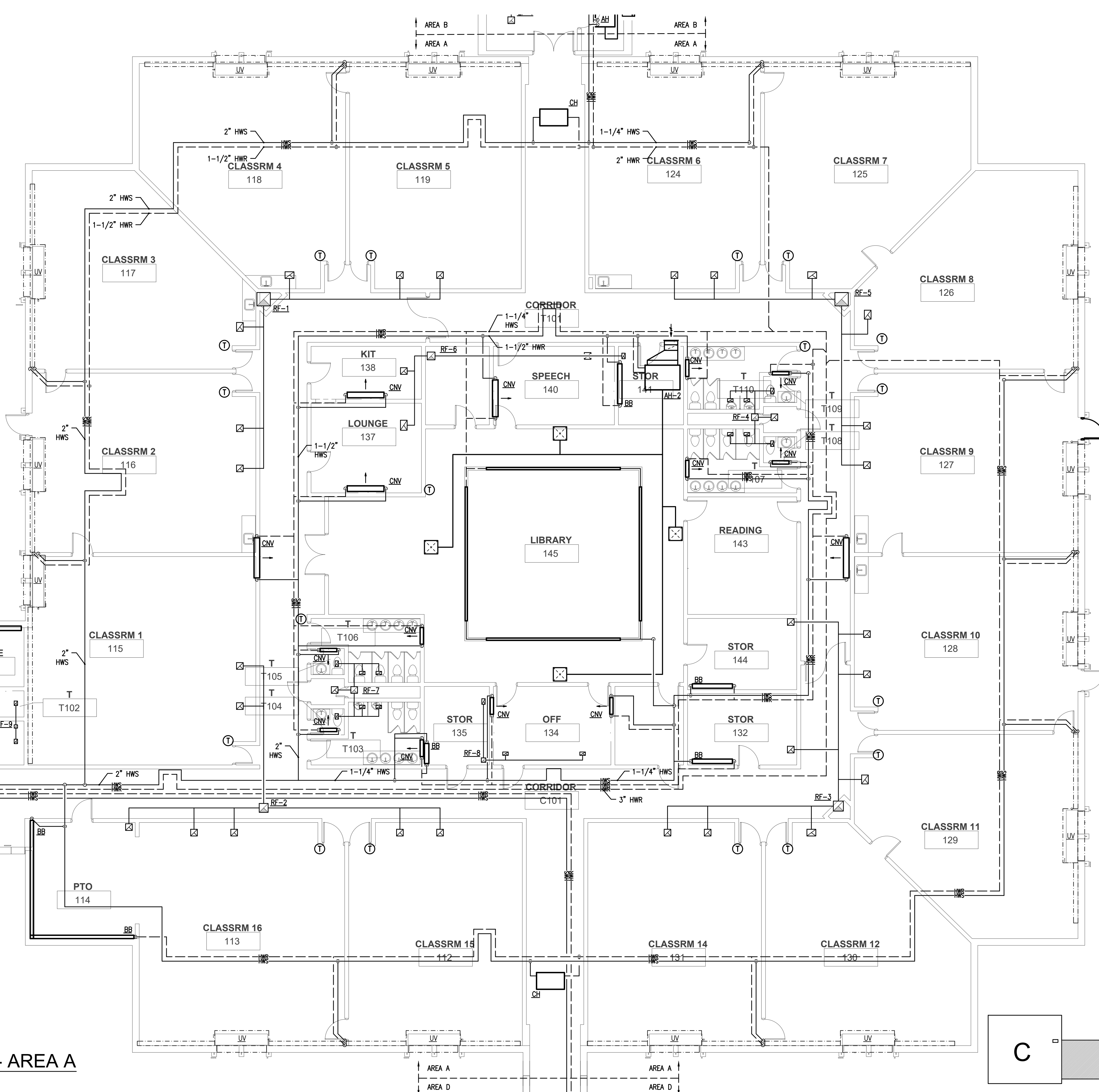
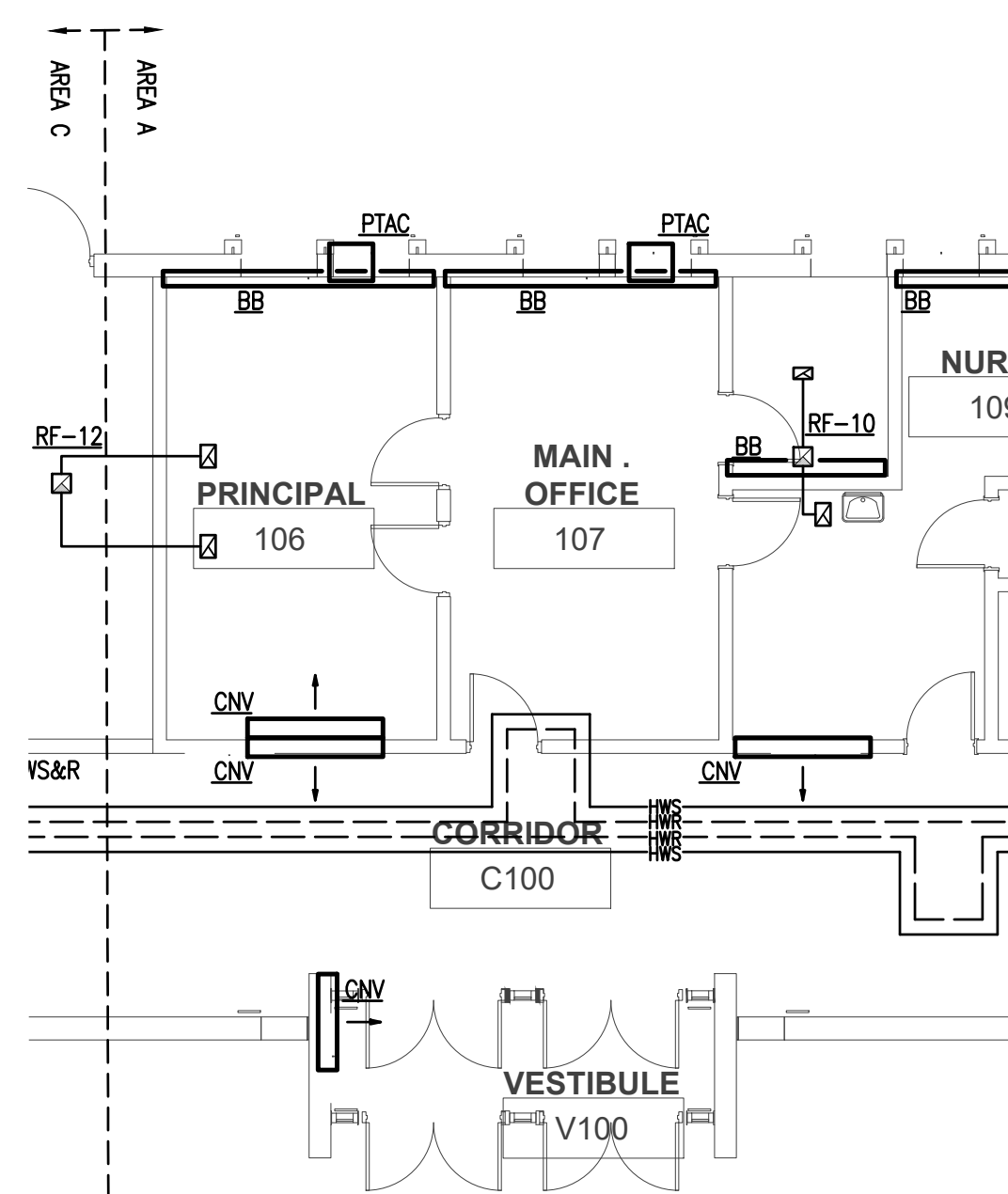
BER# 21228

HVAC DEMOLITION GENERAL NOTES

- REFER TO ALL DRAWINGS FOR GENERAL DESCRIPTION OF AREAS REQUIRING DEMOLITION.
- DEMOLITION SHALL BE COORDINATED WITH OWNER, ARCHITECT, GENERAL CONTRACTOR, CONSTRUCTION MANAGER AND ENGINEER.
- REFER TO CONSTRUCTION MANAGER'S INSTRUCTIONS FOR ALL EXISTING EQUIPMENT AND MATERIALS THAT SHALL REMAIN THE PROPERTY OF THE OWNER.
- ITEMS OF VALUE WHICH ARE NOT DIRECTED TO BE RETURNED TO THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF. STORAGE OR SALE OF ITEMS ON THE PROJECT SITE IS PROHIBITED.
- DEMOLITION SHALL BE COORDINATED WITH OWNER, ARCHITECT, GENERAL CONTRACTOR, CONSTRUCTION MANAGER AND ENGINEER.
- PROVIDE MECHANICAL DEMOLITION TERMINATION; CUT, VALVE AND CAP, DROP MECHANICAL DISTRIBUTION TO FLOOR. REMOVAL OF SYSTEM EQUIPMENT SHALL BE BY THE HVAC CONTRACTOR.
- PROVIDE 2 WEEKS NOTICE TO OWNER OPERATIONS FOR SHUT DOWN OF ANY SERVICES AND/OR SYSTEMS.
- PERSONNEL PROTECTION: ENSURE THE SAFE PASSAGE OF PERSONS IN AND AROUND THE BUILDING DURING DEMOLITION. PREVENT INJURY TO PERSONS AND DAMAGE TO PROPERTY. PROVIDE ADEQUATE SHORING AND BRACING TO PREVENT COLLAPSE. IMMEDIATELY REPAIR DAMAGED PROPERTY TO THE CONDITION BEFORE BEING DAMAGED. TAKE EFFECTIVE MEASURES TO PREVENT WINDBLOWN DUST.
- UTILITIES: MAINTAIN ALL UTILITIES EXCEPT THOSE REQUIRING REMOVAL OR RELOCATION. KEEP UTILITIES IN SERVICE AND PROTECT FROM DAMAGE. DO NOT INTERRUPT UTILITIES SERVING OCCUPIED AREAS WITHOUT FIRST OBTAINING PERMISSION FROM OWNER. PROVIDE TEMPORARY SERVICES AS REQUIRED.
- THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND REFLECT OVERALL SYSTEM REMOVAL. NOT EVERY ITEM OR COMPONENT OF A SYSTEM IS SHOWN.
- WHERE REMOVAL OF EQUIPMENT IS INDICATED, SCOPE OF WORK SHALL INCLUDE REMOVAL OF CONTROLS WIRING, CONDUIT AND DEVICES, HANGERS, SUPPORTS, AND ALL OTHER ASSOCIATED APPURTENANCES.
- THIS CONTRACTOR SHALL PROVIDE SHUT DOWN OF SERVICES (FANS, PUMPS, AHU's, ETC.) AND TRACING OF ALL RISERS.

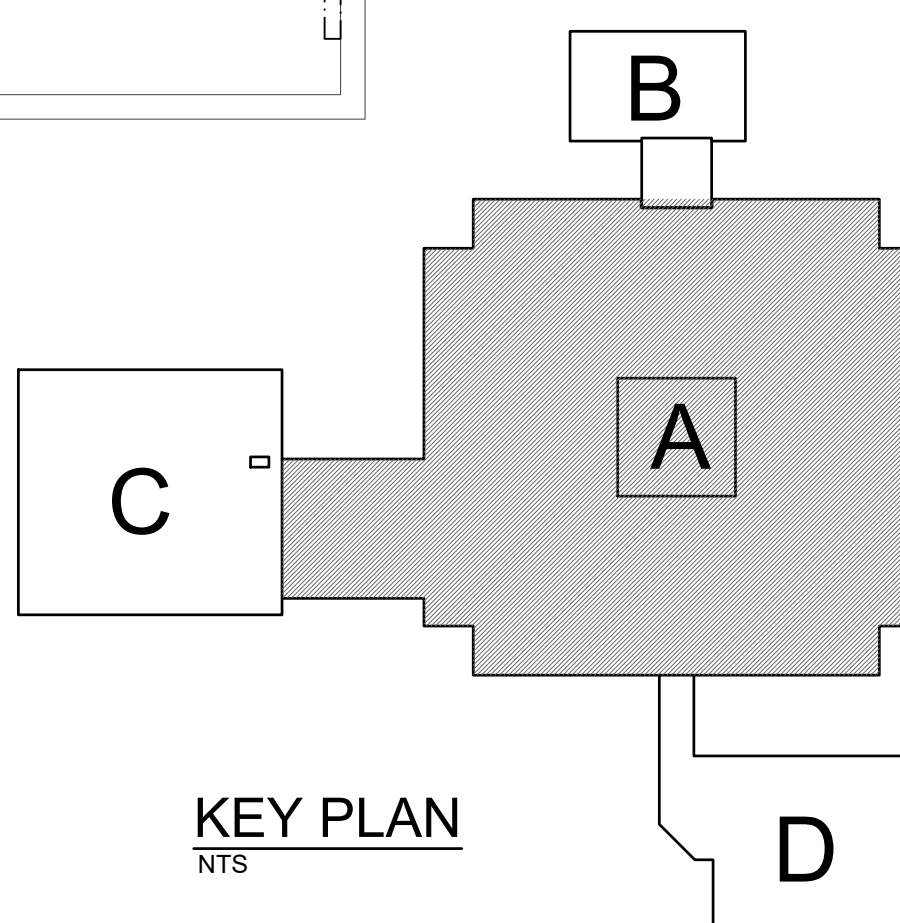
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MECHANICAL DEMOLITION PLAN - AREA A

1/8" = 1'-0"



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at
Hoxsie Elementary School
55 Glenwood Drive, Warwick, RI 02889

for
Warwick School Department

Revision Schedule	
Revision Number	Revision Date

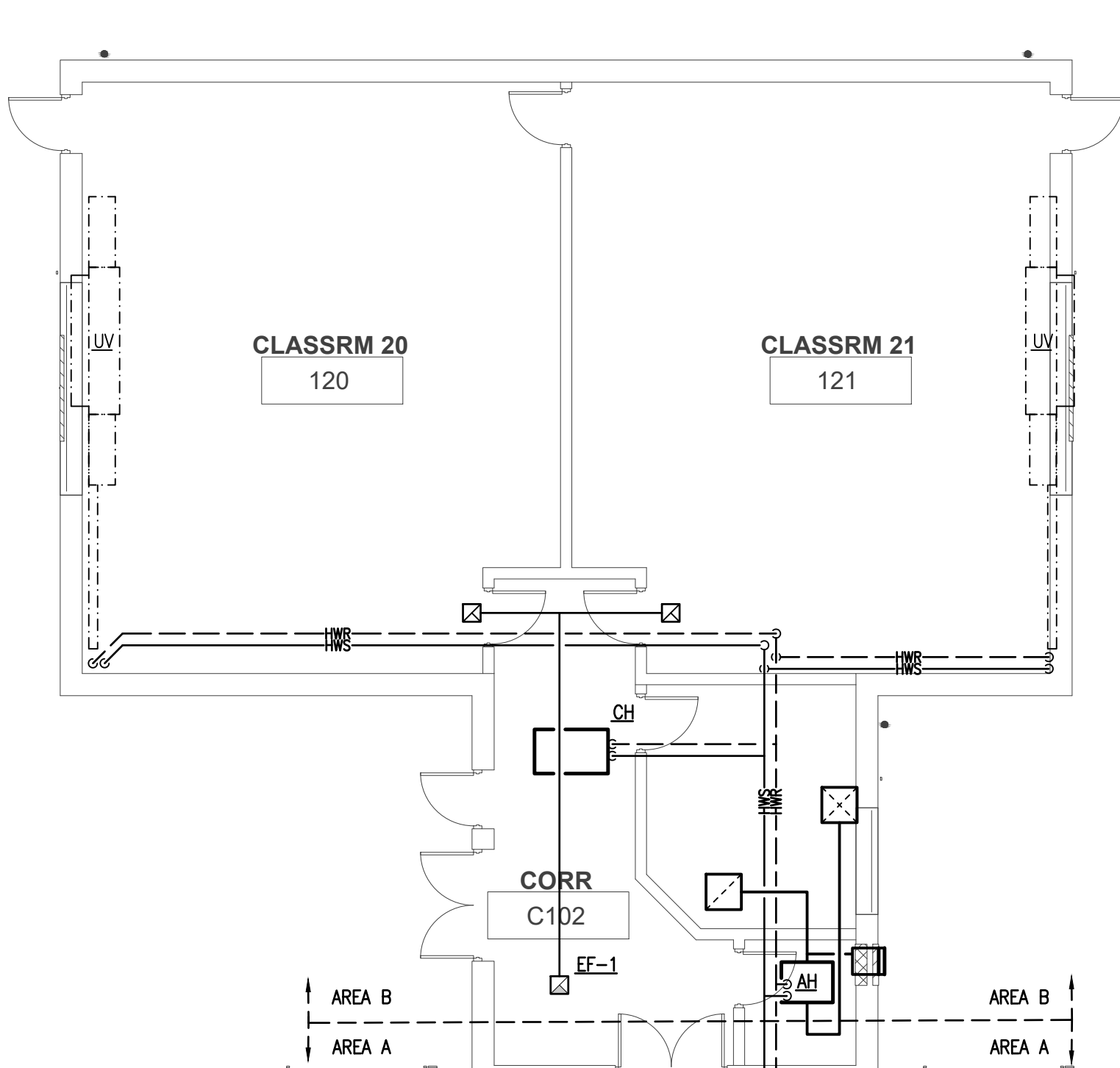
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MECHANICAL DEMOLITION FLOOR PLAN - AREA A

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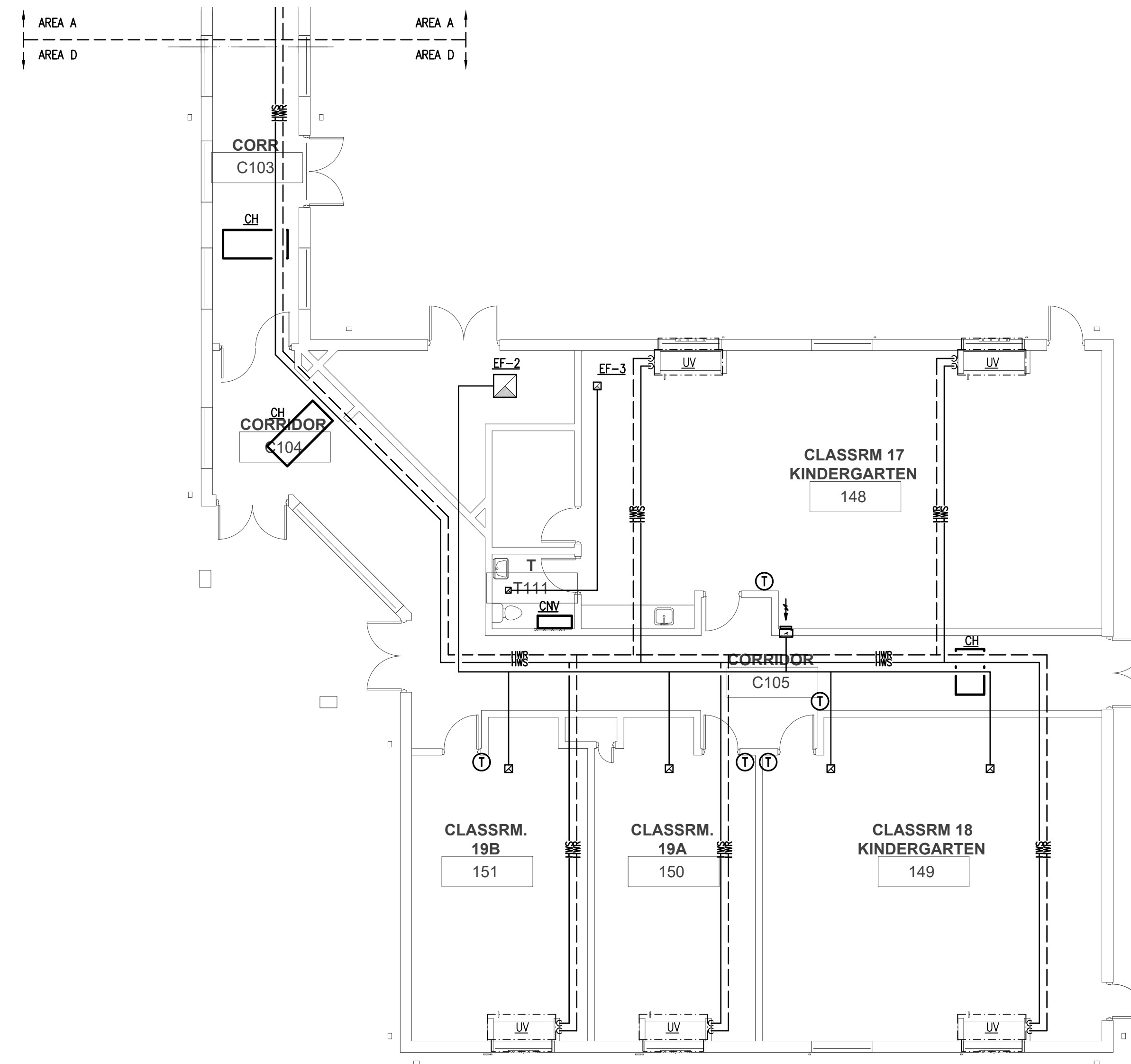
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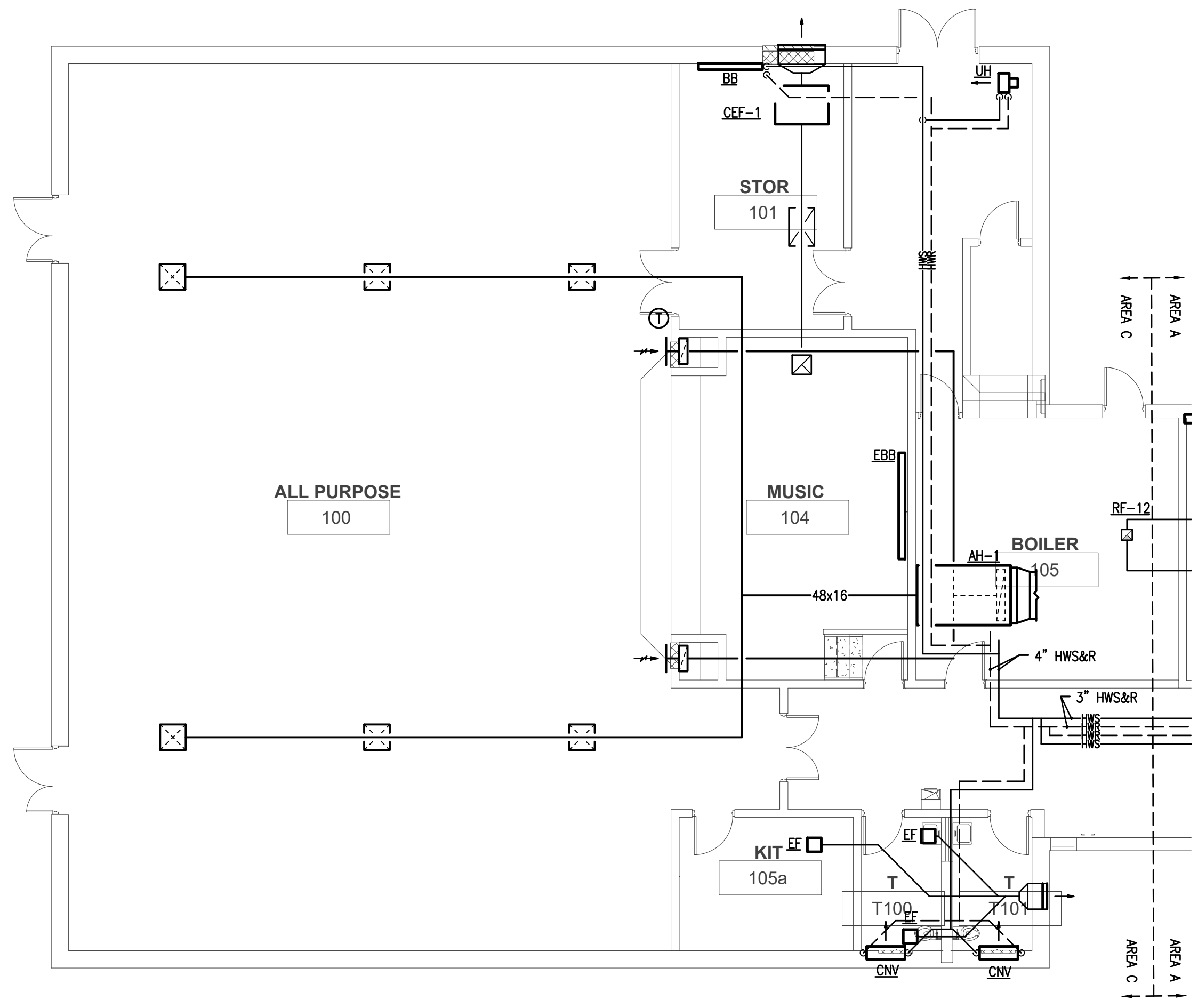
SHEET: 20 OF: 44



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



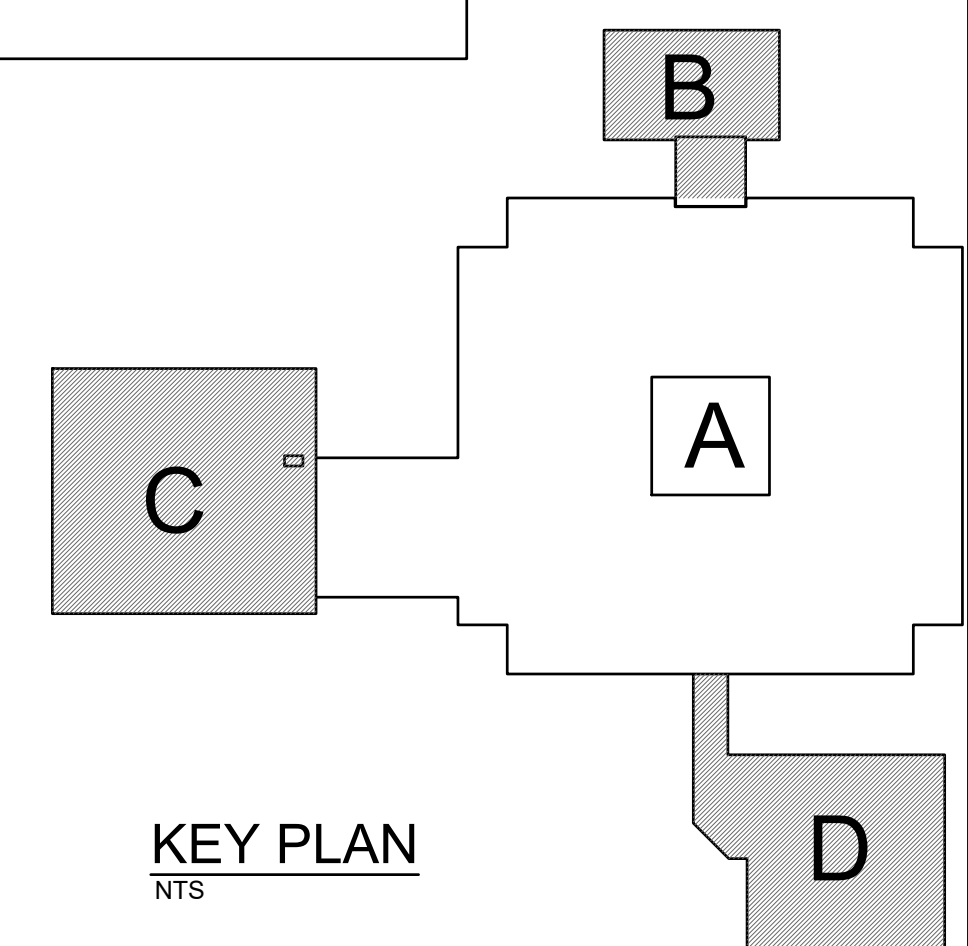
3 MECHANICAL DEMOLITION PLAN - AREA D
1/8" = 1'-0"



2 MECHANICAL DEMOLITION PLAN - AREA C
1/8" = 1'-0"

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HVAC UPGRADES

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for
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Revision Number	Revision Date

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MECHANICAL DEMOLITION FLOOR PLAN - AREAS B, C & D

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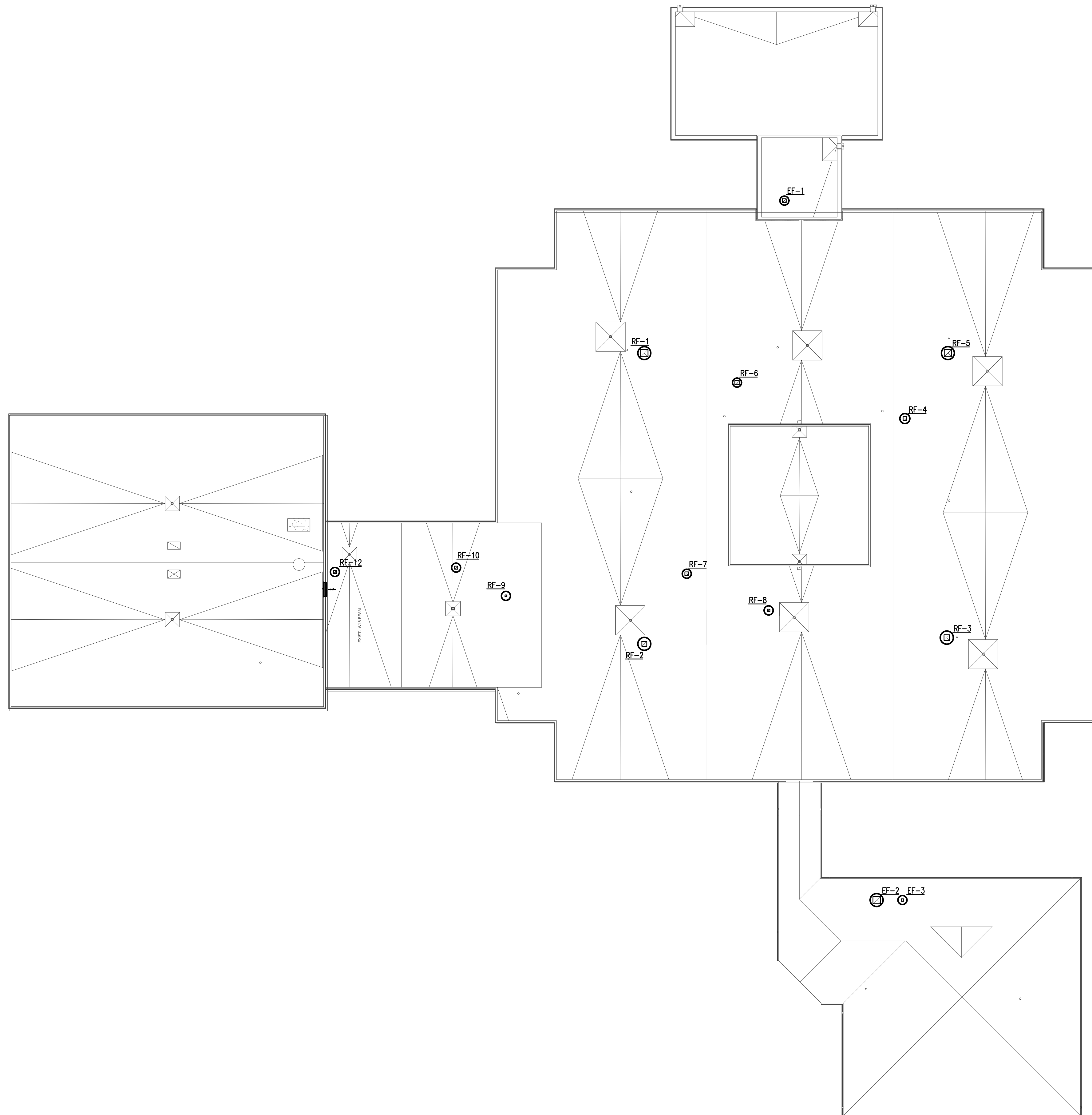
SHEET: 21 OF: 44

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1 MECHANICAL DEMOLITION PLAN - ROOF
1/16" = 1'-0"

ISSUED FOR PERMIT AND CONSTRUCTION



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ber@ber-engineering.com www.ber-engineering.com

HVAC UPGRADES

at

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Elementary School

55 Glenwood Drive, Warwick, RI 02889

for
Warwick School
Department

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MECHANICAL DEMOLITION
PLAN - ROOF

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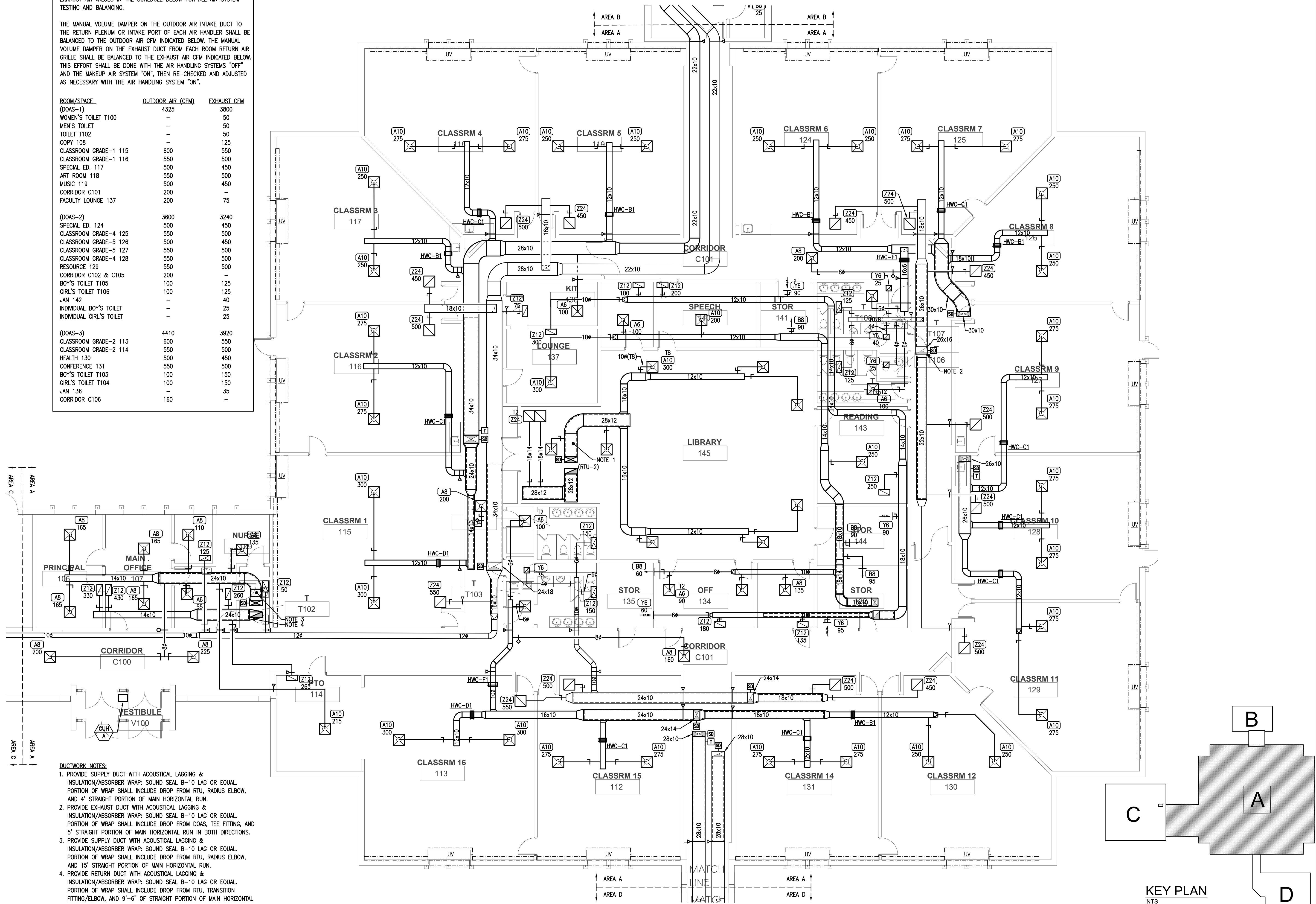
BER# 21228

AIR SYSTEM BALANCING NOTES

AIR SYSTEM TESTING AND BALANCING SHALL COMMENCE AFTER ALL AIR SYSTEM INSTALLATIONS HAVE BEEN COMPLETED, INCLUSIVE OF AIR HANDLING SYSTEMS (AH), ROOFTOP UNIT SYSTEMS (DOAS), AND MAKEUP AIR UNIT SYSTEMS (DOAS). UTILIZE AIRFLOWS ON THE RGD TAGS ON THESE PLANS IN CONJUNCTION WITH THE MINIMUM OUTDOOR AIR AND EXHAUST AIR VALUES IN THE SCHEDULE BELOW FOR ALL AIR SYSTEM TESTING AND BALANCING.

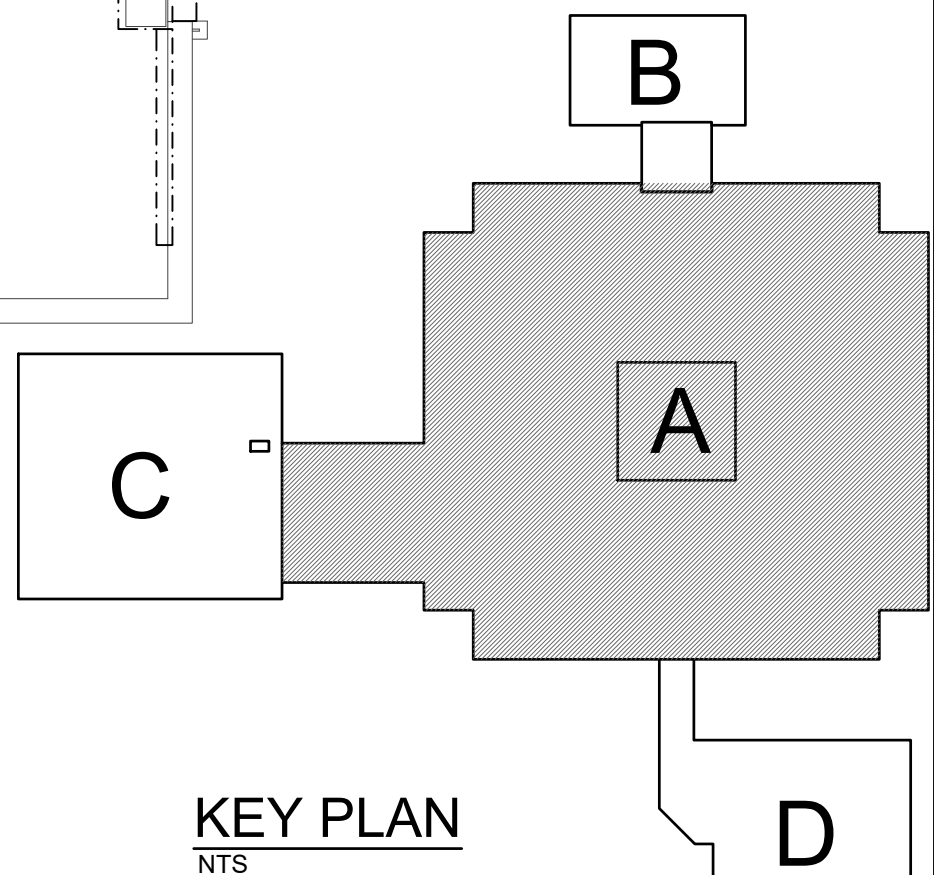
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ROOM/SPACE	OUTDOOR AIR (CFM)	EXHAUST CFM
(DOAS-1)	4325	3800
WOMEN'S TOILET T100	-	50
MEN'S TOILET	-	50
TOILET T102	-	50
COPY 108	-	125
CLASSROOM GRADE-1 115	600	550
CLASSROOM GRADE-1 116	550	500
SPECIAL ED. 117	500	450
ART ROOM 118	550	500
MUSIC 119	500	450
CORRIDOR C101	200	-
FACULTY LOUNGE 137	200	75
(DOAS-2)	3600	3240
SPECIAL ED. 124	500	450
CLASSROOM GRADE-4 125	550	500
CLASSROOM GRADE-5 126	500	450
CLASSROOM GRADE-5 127	550	500
CLASSROOM GRADE-4 128	550	500
RESOURCE 129	550	500
CORRIDOR C102 & C105	200	-
BOY'S TOILET T105	100	125
GIRL'S TOILET T106	100	125
JAN 142	-	40
INDIVIDUAL BOY'S TOILET	-	25
INDIVIDUAL GIRL'S TOILET	-	25
(DOAS-3)	4410	3920
CLASSROOM GRADE-2 113	600	550
CLASSROOM GRADE-2 114	550	500
HEALTH 130	500	450
CONFERENCE 131	550	500
BOY'S TOILET T103	100	150
GIRL'S TOILET T104	100	150
JAN 136	-	35
CORRIDOR C106	160	-

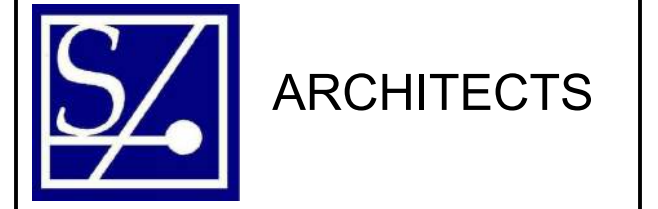


- DUCTWORK NOTES:**
1. PROVIDE SUPPLY DUCT WITH ACOUSTICAL LAGGING & INSULATION/ABSORBER WRAP: SOUND SEAL B-10 LAG OR EQUAL. PORTION OF WRAP SHALL INCLUDE DROP FROM RTU, RADIUS ELBOW, AND 4' STRAIGHT PORTION OF MAIN HORIZONTAL RUN.
 2. PROVIDE EXHAUST DUCT WITH ACOUSTICAL LAGGING & INSULATION/ABSORBER WRAP: SOUND SEAL B-10 LAG OR EQUAL. PORTION OF WRAP SHALL INCLUDE DROP FROM DOAS, TEE FITTING, AND 5' STRAIGHT PORTION OF MAIN HORIZONTAL RUN IN BOTH DIRECTIONS.
 3. PROVIDE SUPPLY DUCT WITH ACOUSTICAL LAGGING & INSULATION/ABSORBER WRAP: SOUND SEAL B-10 LAG OR EQUAL. PORTION OF WRAP SHALL INCLUDE DROP FROM RTU, RADIUS ELBOW, AND 15' STRAIGHT PORTION OF MAIN HORIZONTAL RUN.
 4. PROVIDE RETURN DUCT WITH ACOUSTICAL LAGGING & INSULATION/ABSORBER WRAP: SOUND SEAL B-10 LAG OR EQUAL. PORTION OF WRAP SHALL INCLUDE DROP FROM RTU, TRANSITION FITTING/ELBOW, AND 9'-6" OF STRAIGHT PORTION OF MAIN HORIZONTAL RUN.

MECHANICAL DUCTWORK PLAN - AREA A
1/8" = 1'-0"



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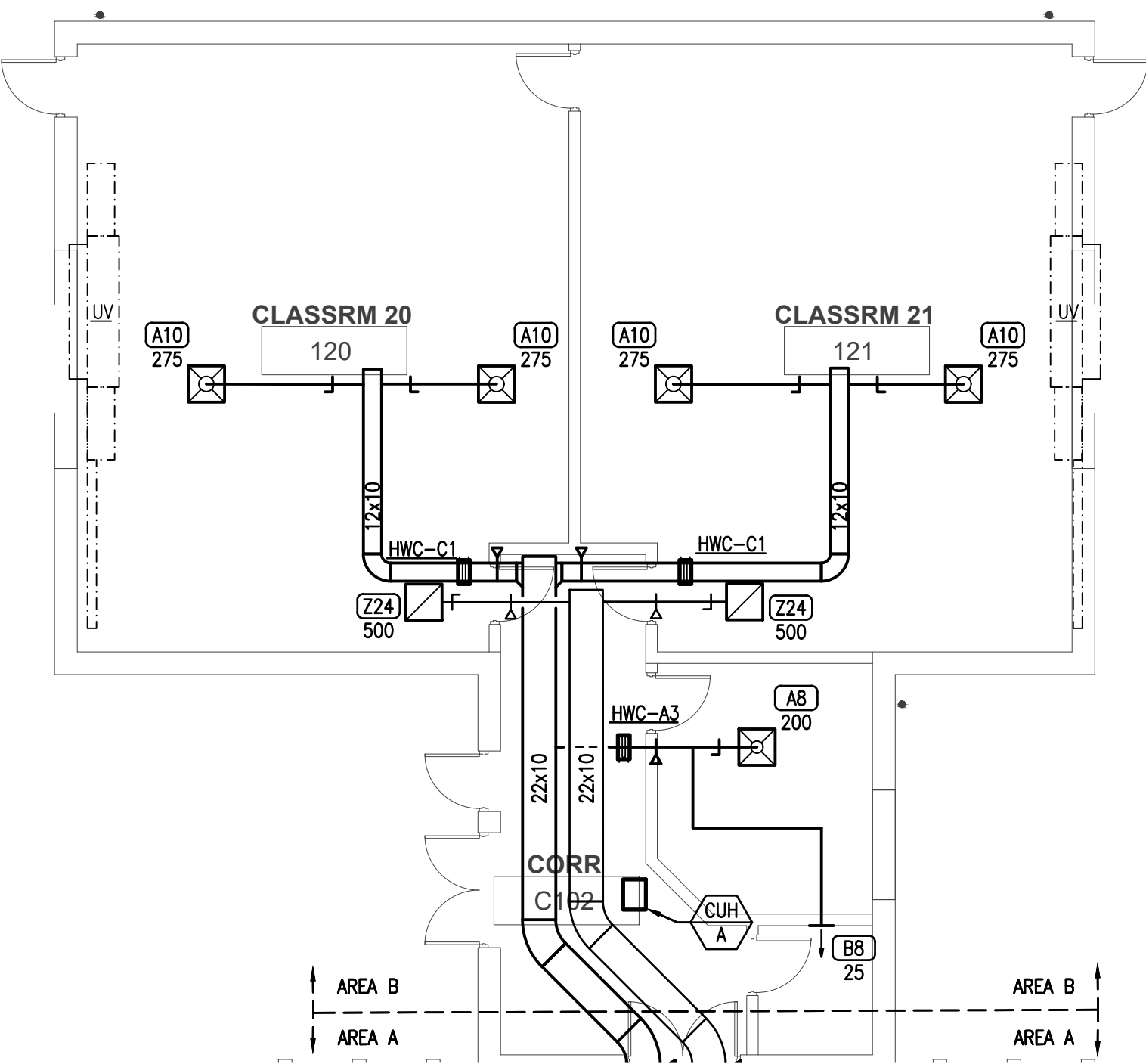
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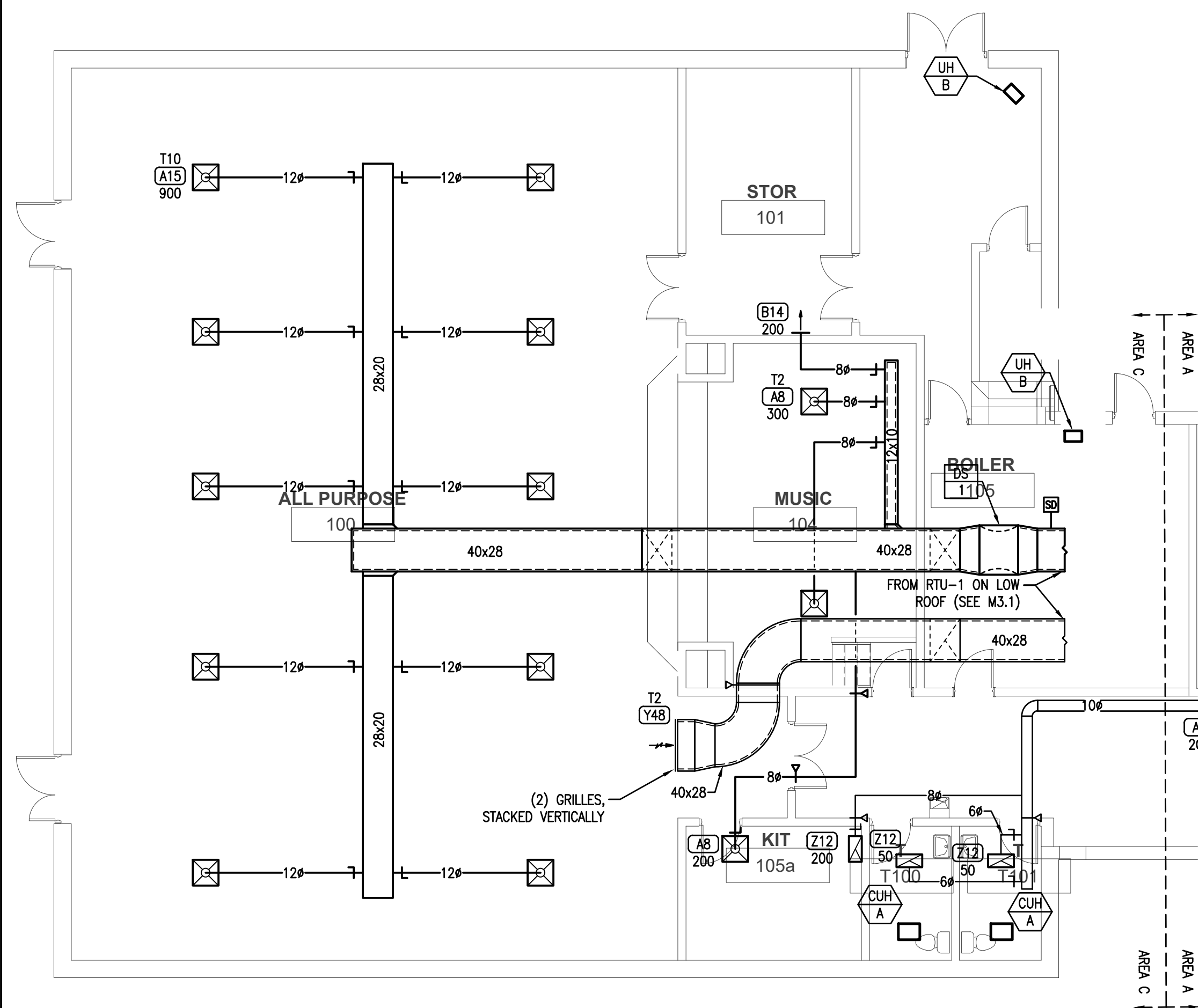
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MECHANICAL DUCTWORK PLAN - AREA A

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BER# 21238



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



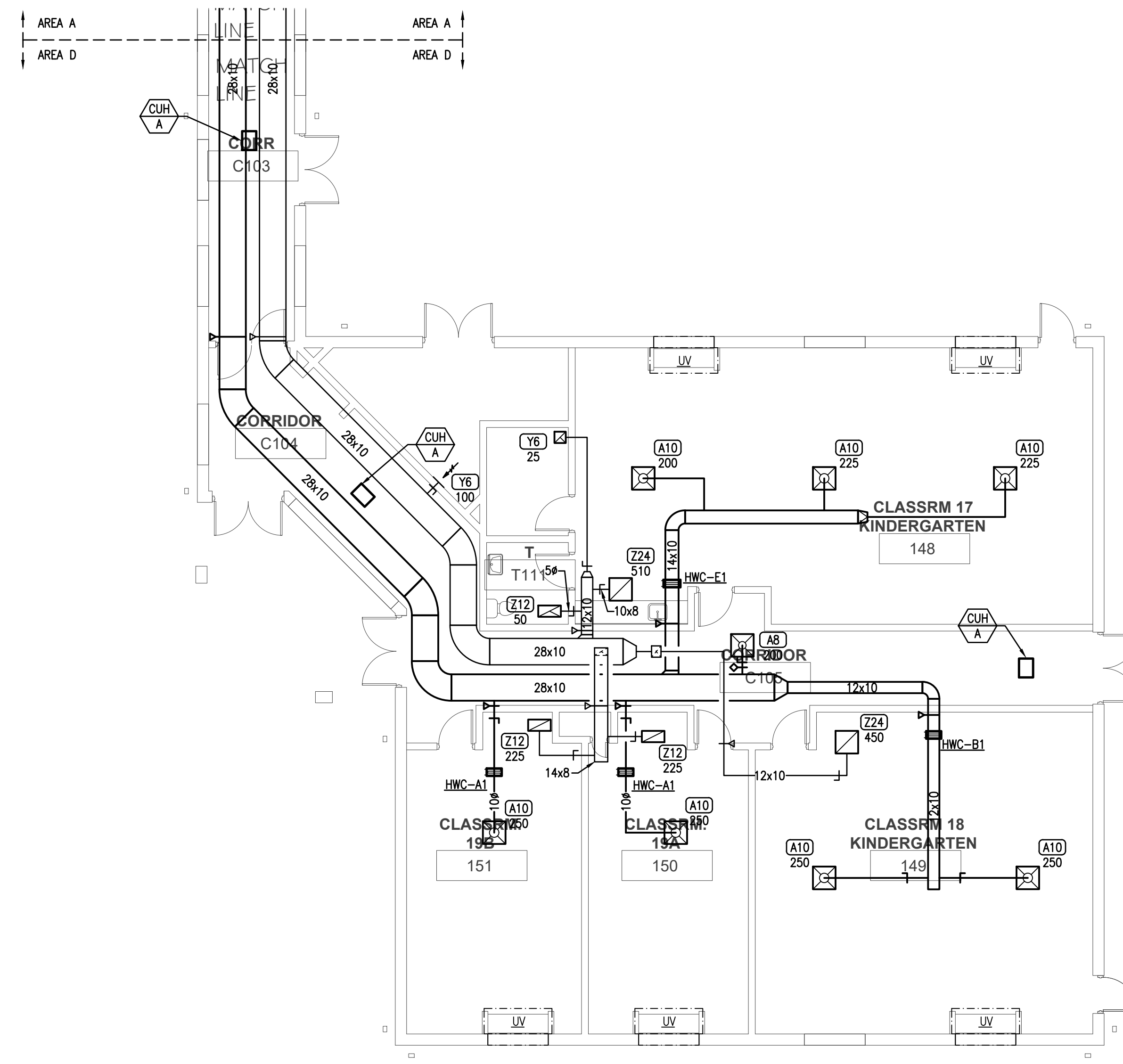
2 MECHANICAL DUCTWORK PLAN - AREA C
1/8" = 1'-0"

AIR SYSTEM BALANCING NOTES

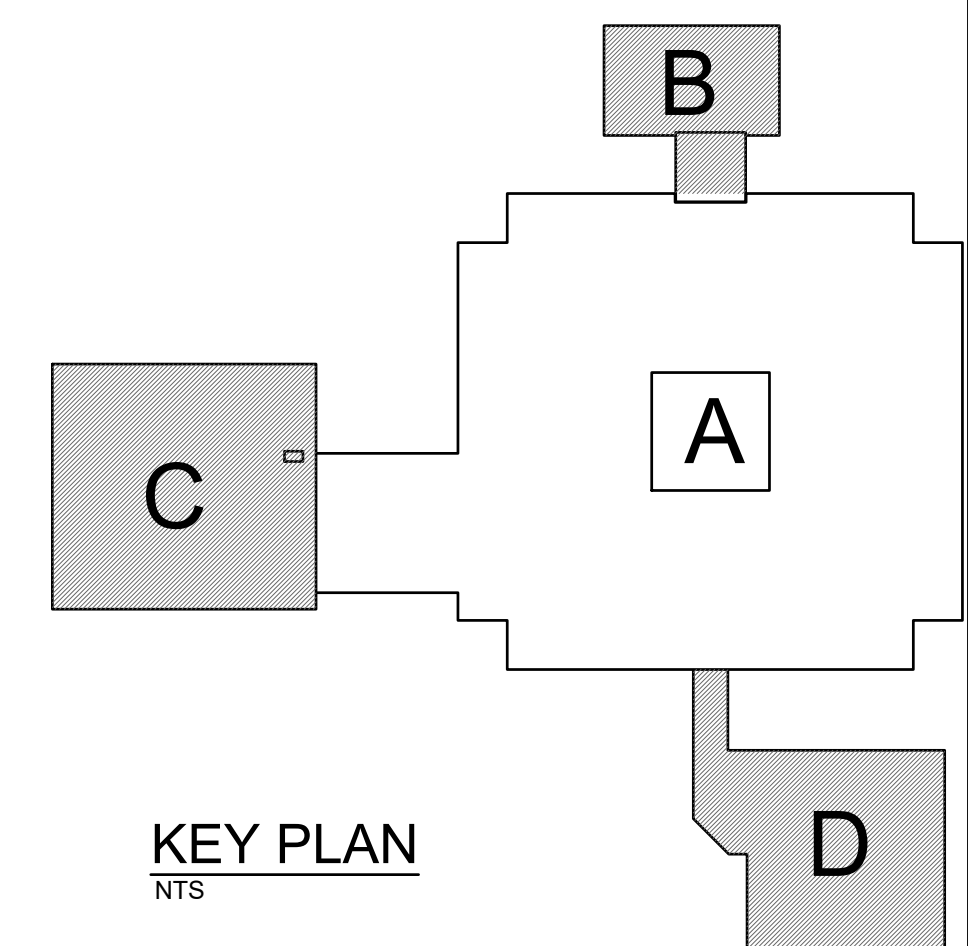
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(DOAS-1)	4325	3800
CLASSROOM GRADE-3 120	550	500
CLASSROOM GRADE-3 121	550	500
OFFICE 122	200	-
STORAGE 123	25	-
(DOAS-3)	4500	3920
KINDERGARTEN 148	650	510
KINDERGARTEN 149	500	450
CLASSROOM 150	250	225
CLASSROOM 151	250	225
CORRIDOR C107 & C108	175	-
STOR. 146	-	100
STOR. 147	-	25
TOILET 109	-	50



3 MECHANICAL DUCTWORK PLAN - AREA D
1/8" = 1'-0"



KEY PLAN
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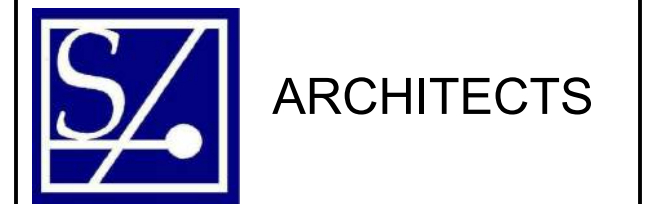
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MECHANICAL DUCTWORK PLANS - AREAS B, C & D

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M1.2

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at

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for
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MECHANICAL PIPING PLAN - AREA A

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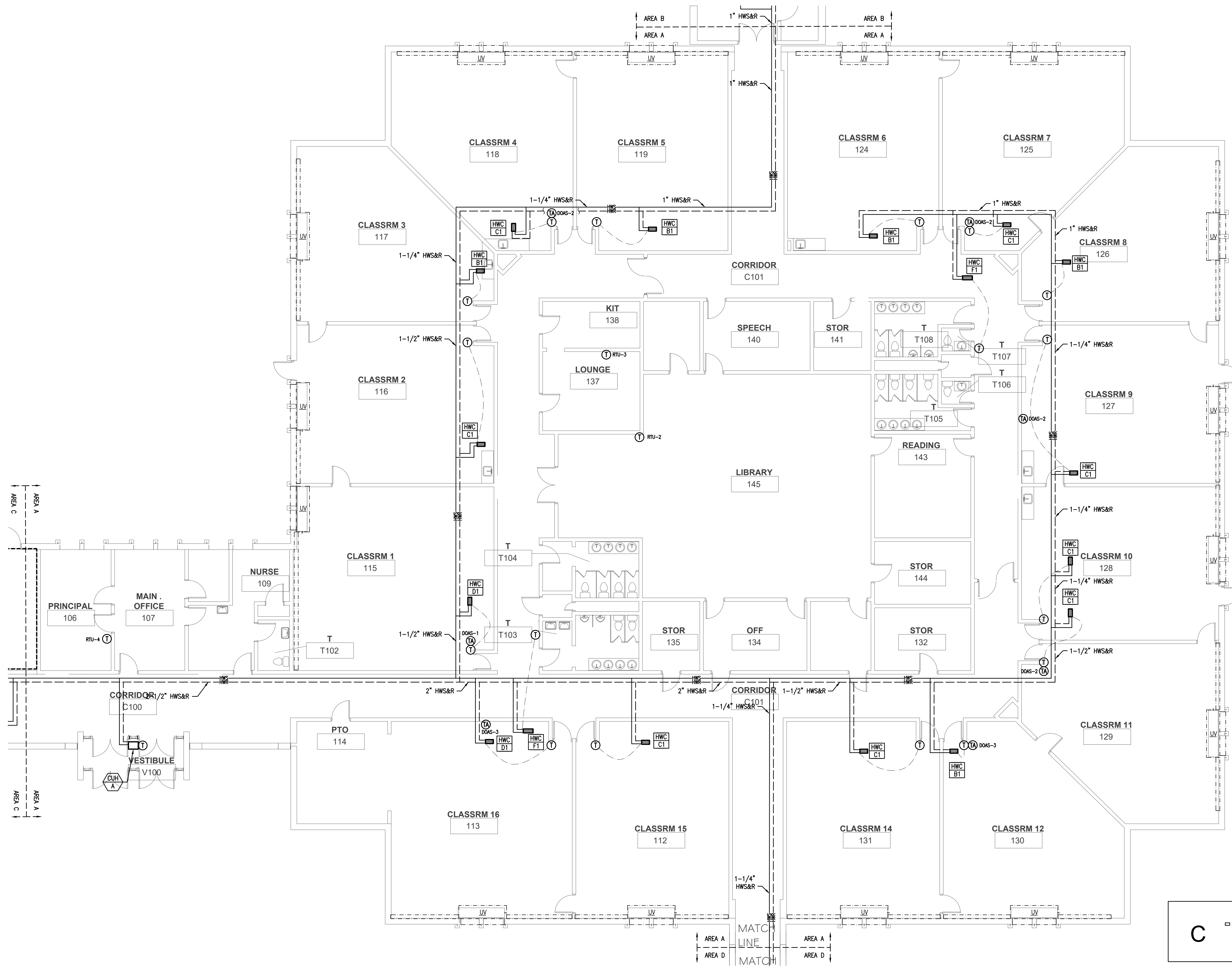
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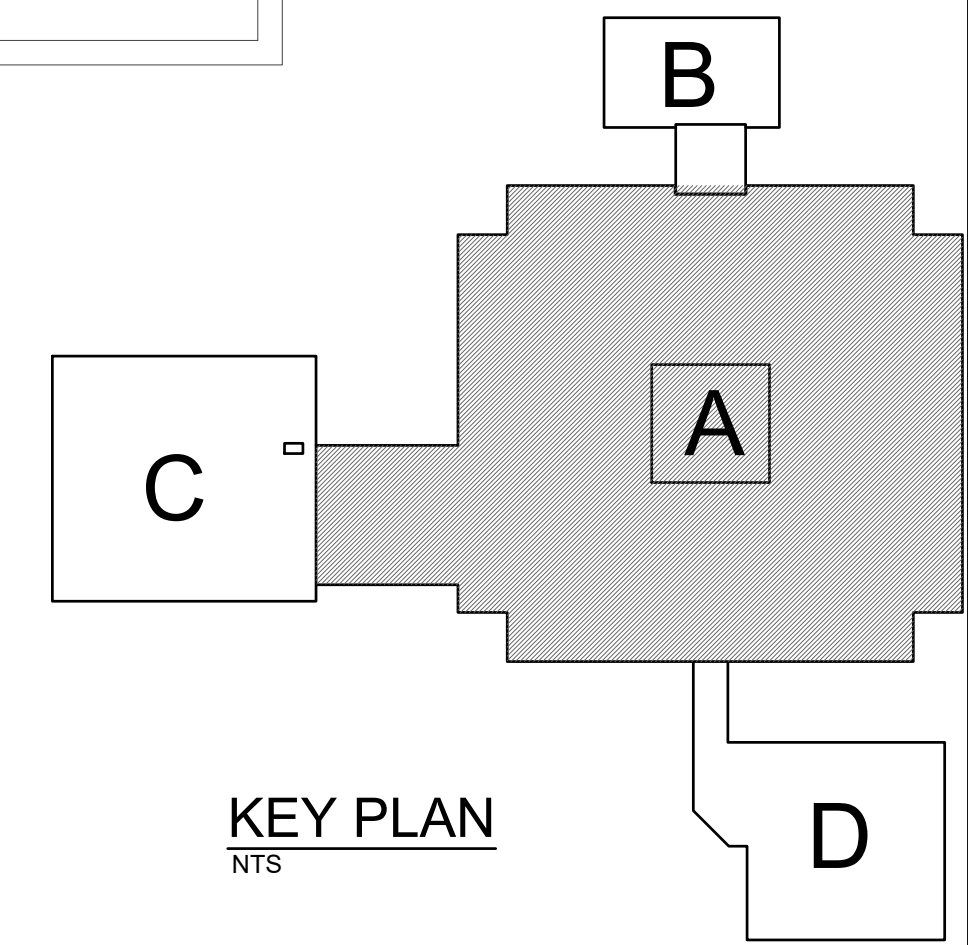
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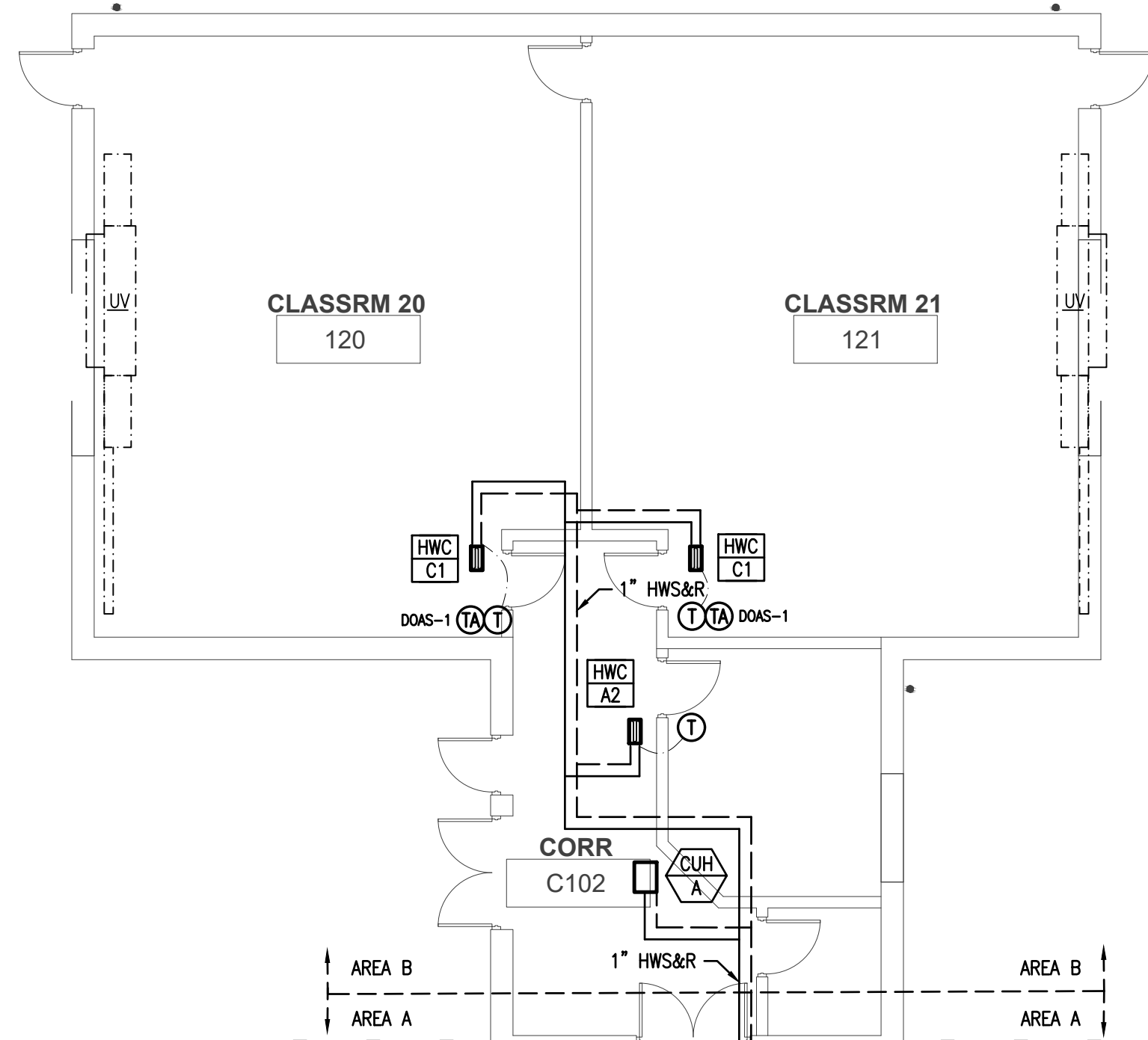


1 MECHANICAL PIPING PLAN - AREA A
 1/8" = 1'-0"

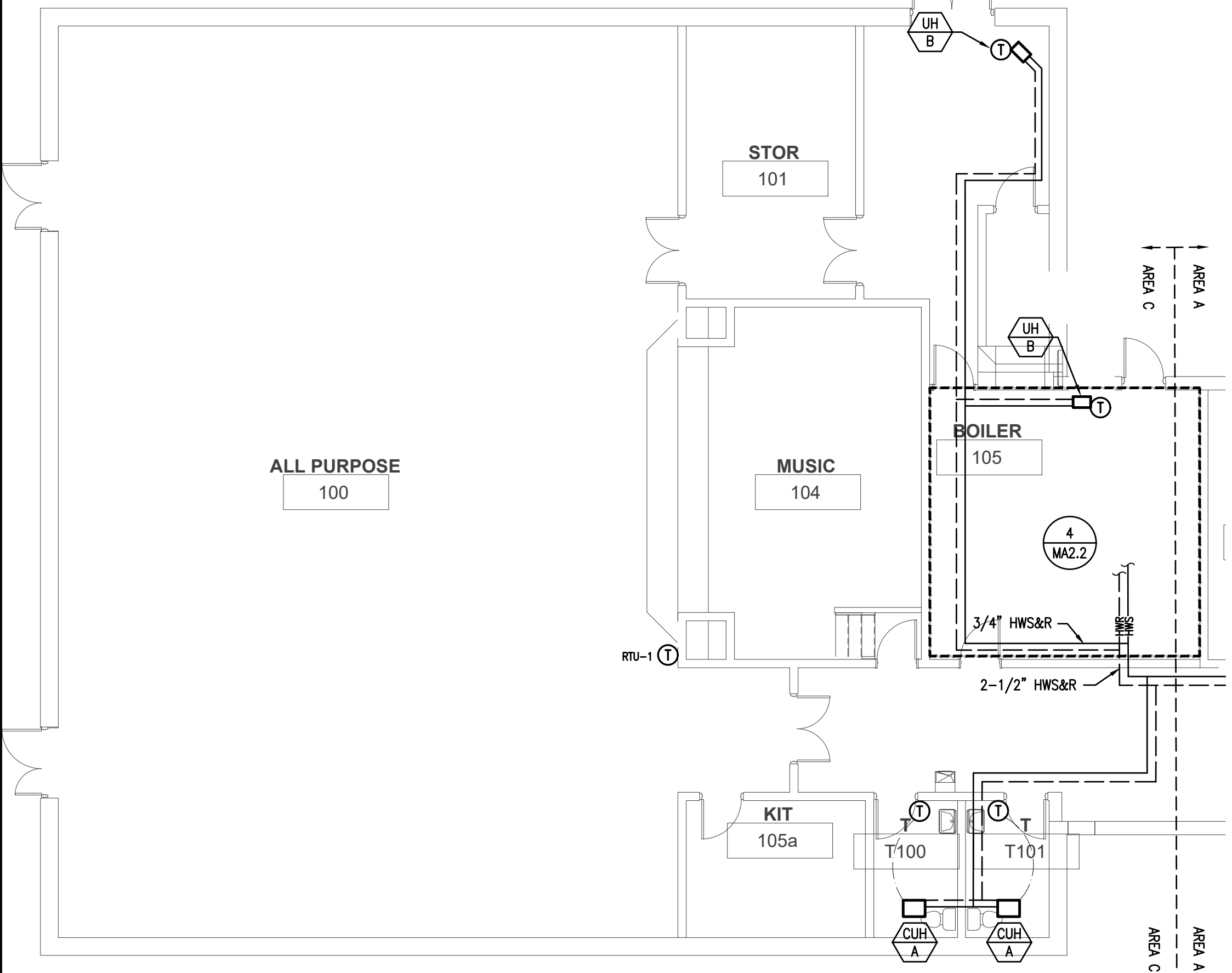


KEY PLAN
 NTS

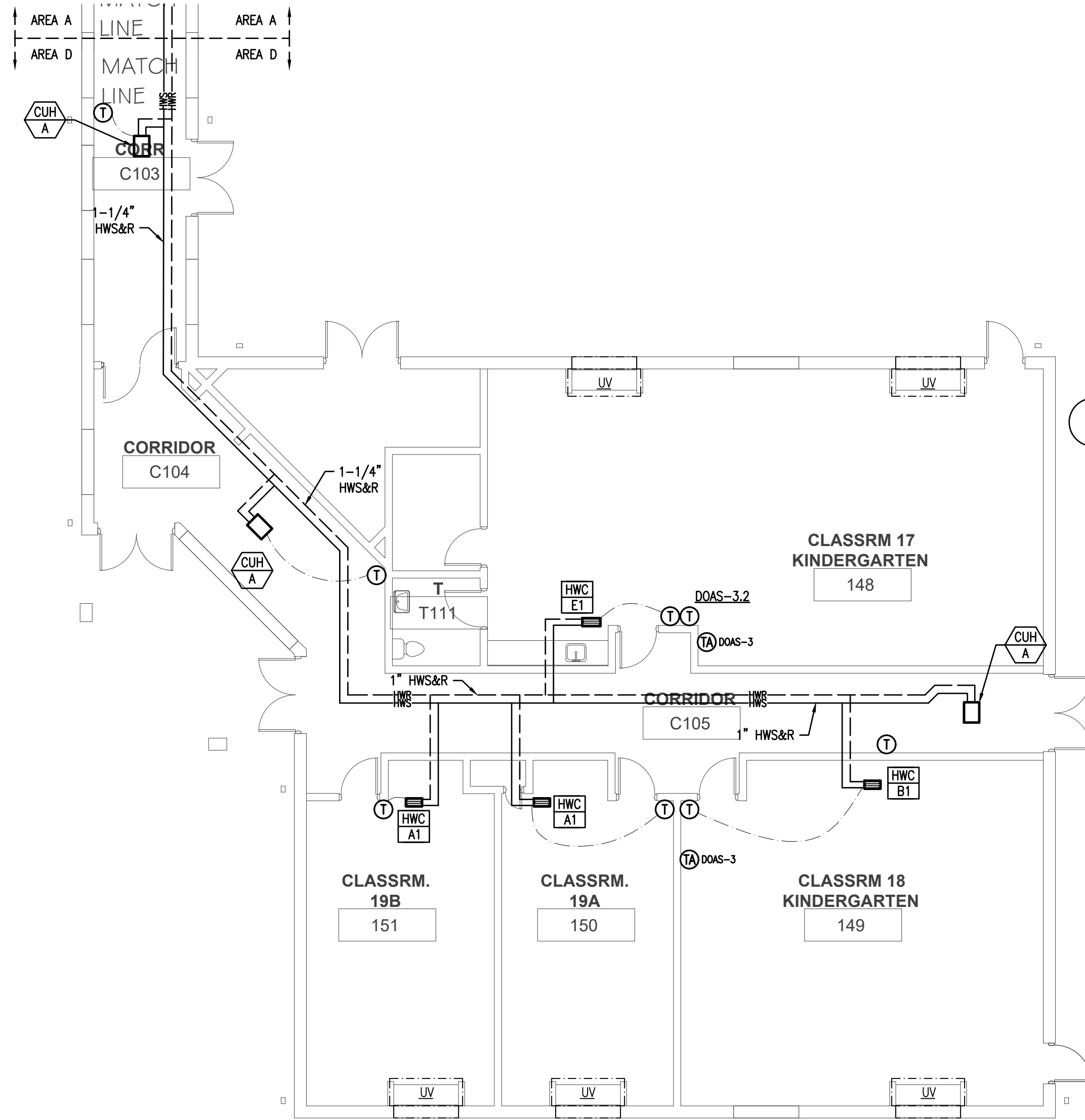
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1 MECHANICAL PIPING PLAN - AREA B
1/8" = 1'-0"

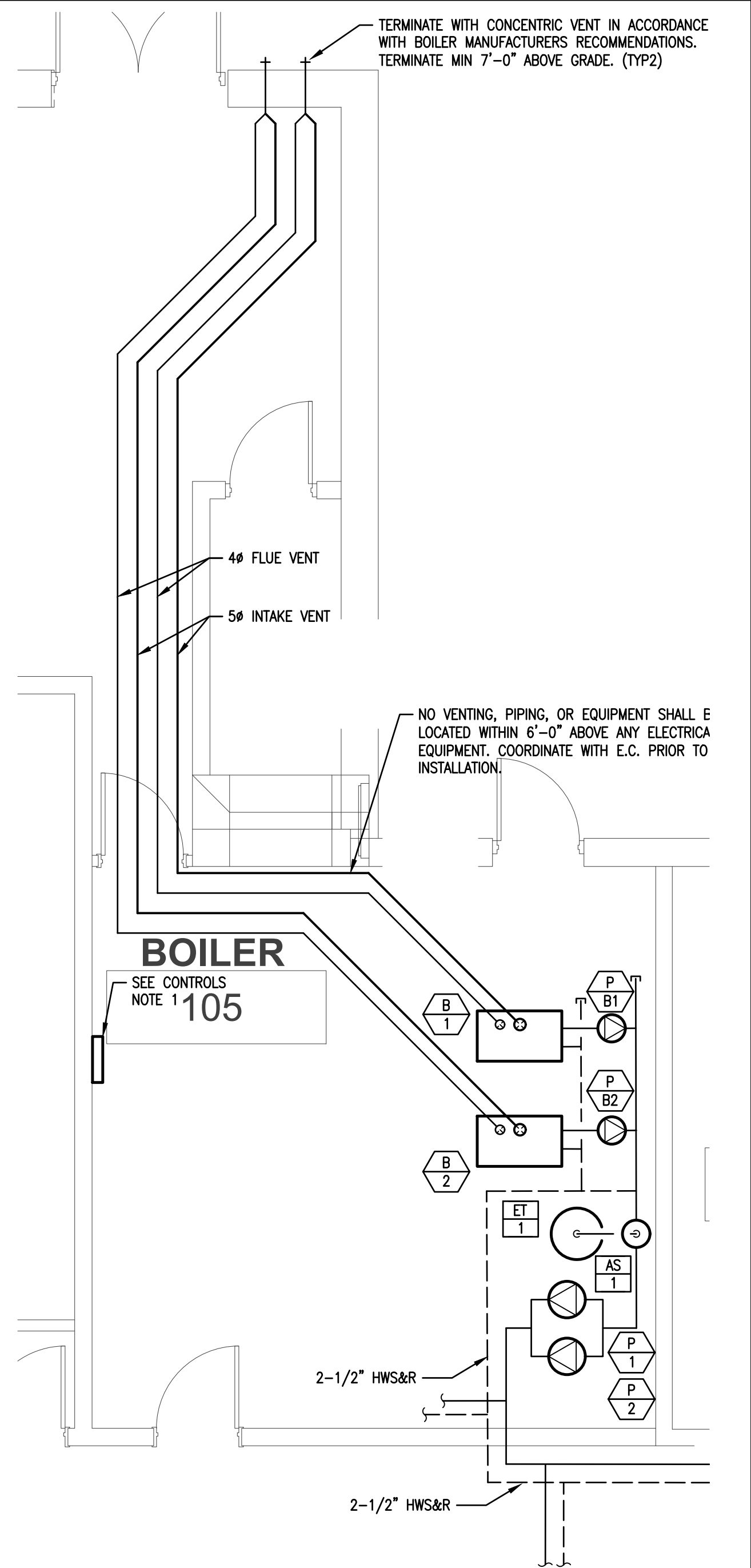


2 MECHANICAL PIPING PLAN - AREA C
1/8" = 1'-0"

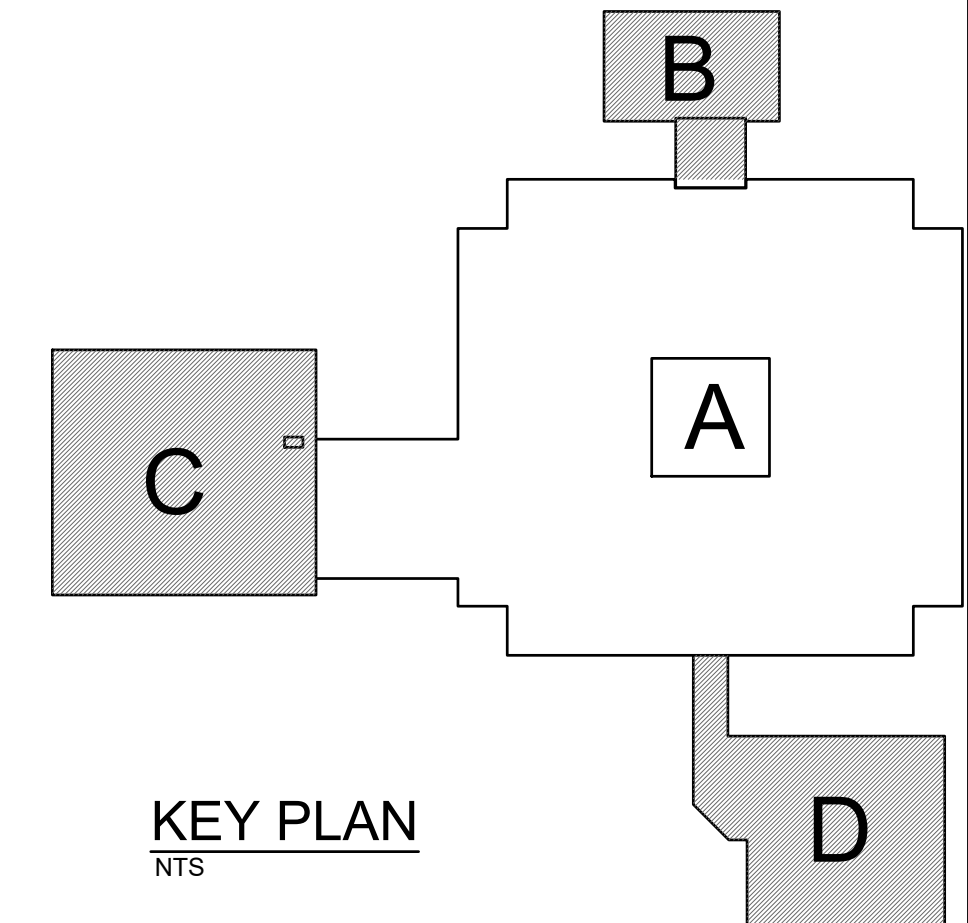


3 MECHANICAL PIPING PLAN - AREA D
1/8" = 1'-0"

CONTROLS NOTE 1:
SUGGESTED LOCATION FOR BUILDING MANAGEMENT SYSTEM MAIN CONTROL BOARD, COORDINATE POWER AND DATA REQUIREMENTS WITH E.C. AND NETWORK ENGINEER



4 ENLARGED BOILER ROOM PART PLAN
1/4" = 1'-0"



KEY PLAN
NTS

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MECHANICAL PIPING PLANS - AREAS B, C & D

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MECHANICAL
 ROOF PLAN & DETAILS

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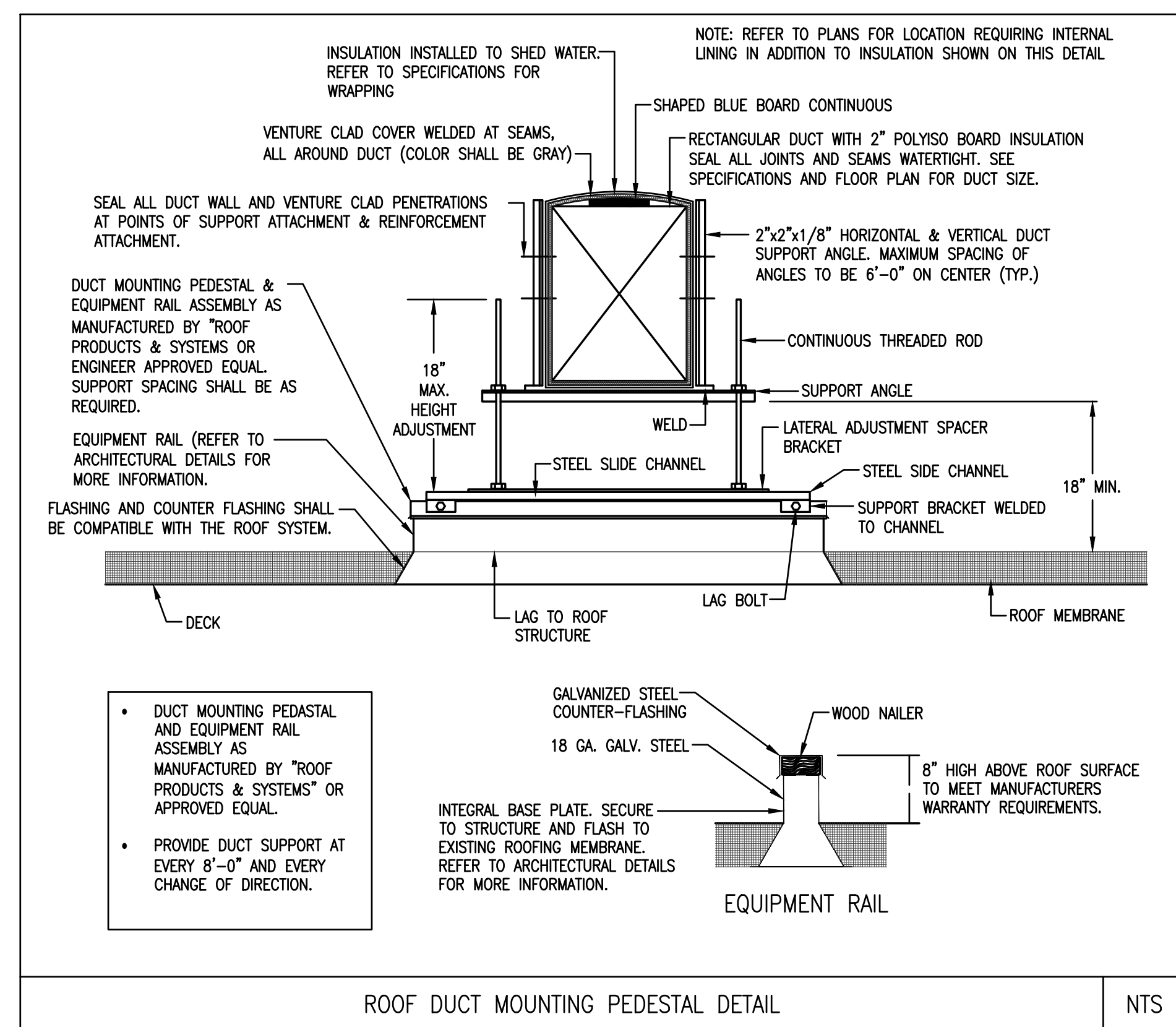
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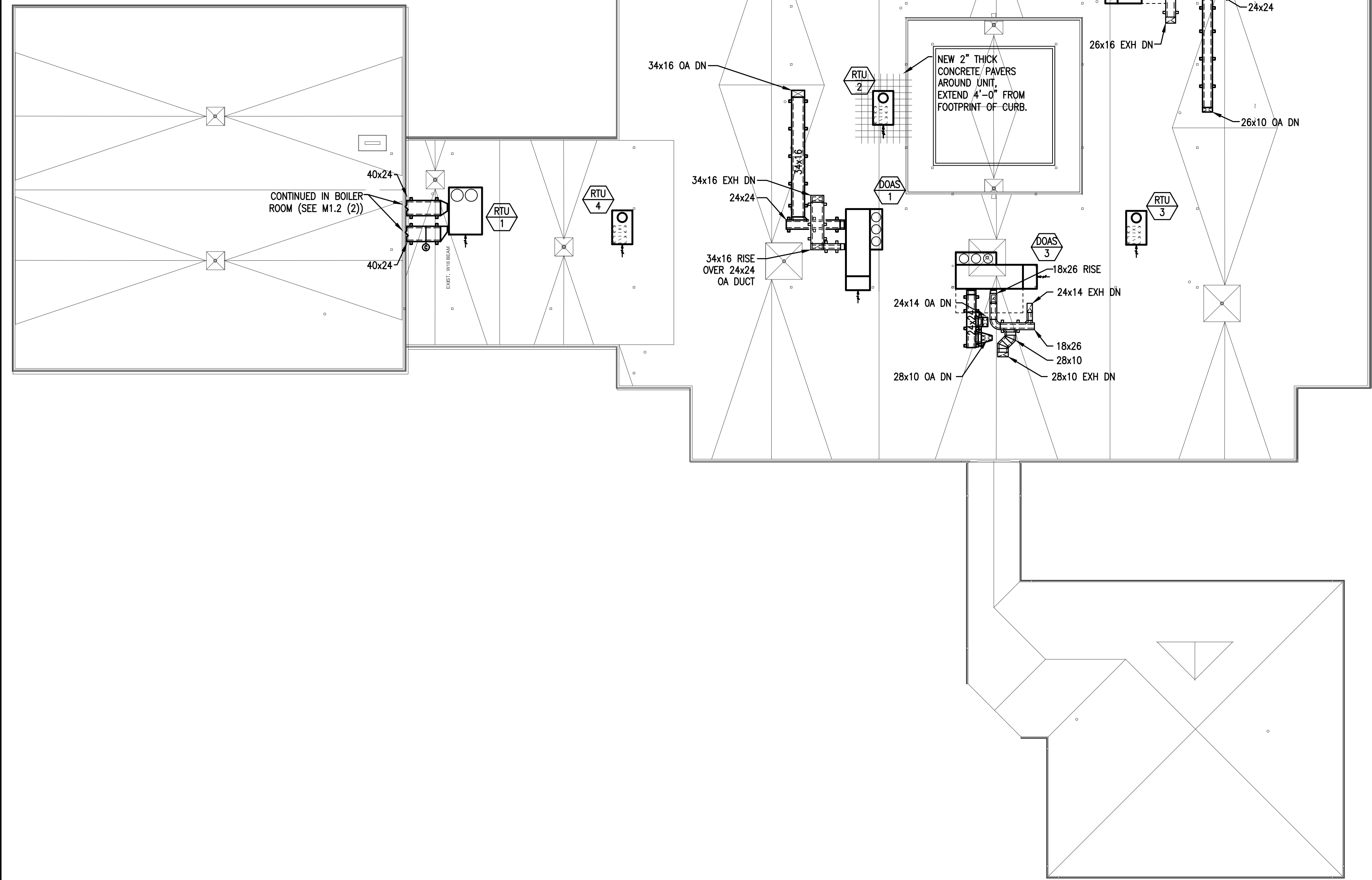
M3.1

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- ROOF PLAN NOTES**
- FINAL EQUIPMENT LOCATIONS, WEIGHTS AND SUPPORTS SHALL BE COORDINATED EXCLUSIVELY WITH ARCHITECTURAL PLANS AND THE STRUCTURAL ENGINEERING DRAWINGS.
 - ROOF MOUNTED DUCTWORK SHALL BE INSTALLED AND SUPPORTED IN ACCORDANCE WITH THE DETAILS ON THIS SHEET AND WITHIN THE CONSTRAINTS OF THE DIVISION 23 SPECIFICATIONS. UOI, ALL ROOF TOP DUCTWORK (SUPPLY & EXHAUST/RETURN) SHALL BE ACOUSTICALLY LINED.
 - COORDINATE ALL ROOF PIPE AND DUCT PENETRATIONS WITH THE ARCHITECTURAL DRAWINGS AND DETAILS. USE ONLY APPROVED FLASHING DEVICES, PORTALS, OR OTHERWISE FOR THESE PENETRATIONS. FINAL INSTALLATION IS SUBJECT TO APPROVAL OF THE ARCHITECT.



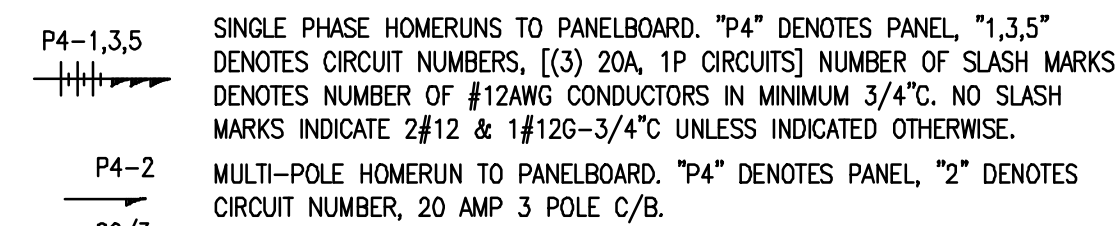
1 MECHANICAL ROOF PLAN
 1/16" = 1'-0"

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LEGEND

- MOUNTING HEIGHTS SHALL BE AS INDICATED UNLESS SHOWN OTHERWISE ON ELECTRICAL DRAWINGS OR ARCHITECTURAL ELEVATIONS
- ALL SYMBOLS MAY NOT BE SHOWN ON PLANS

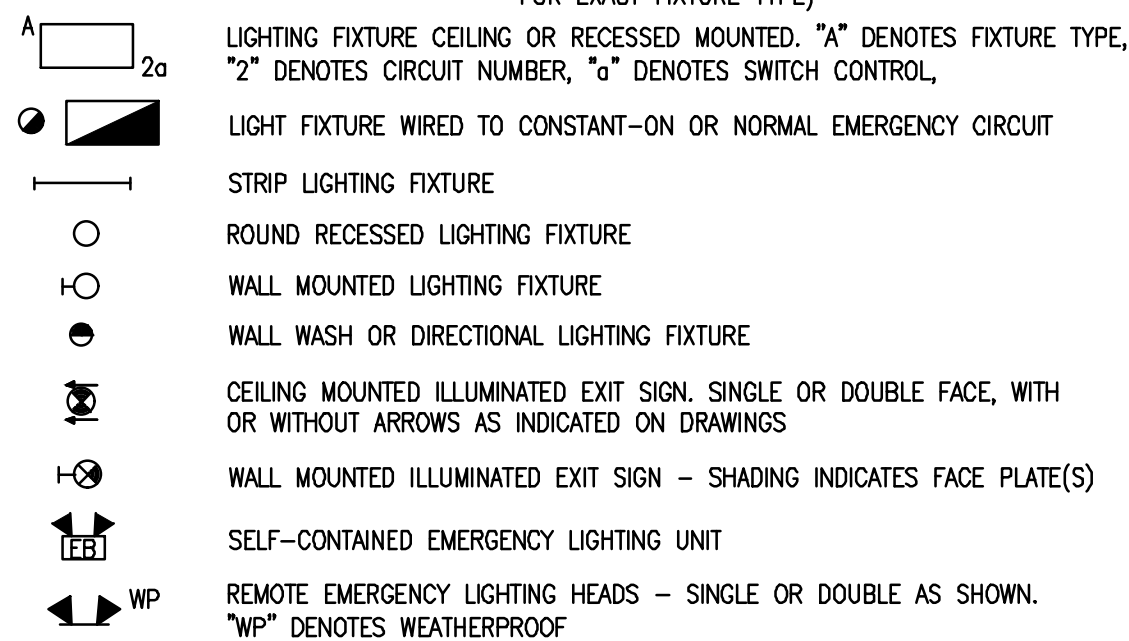
RACEWAYS AND WIRING



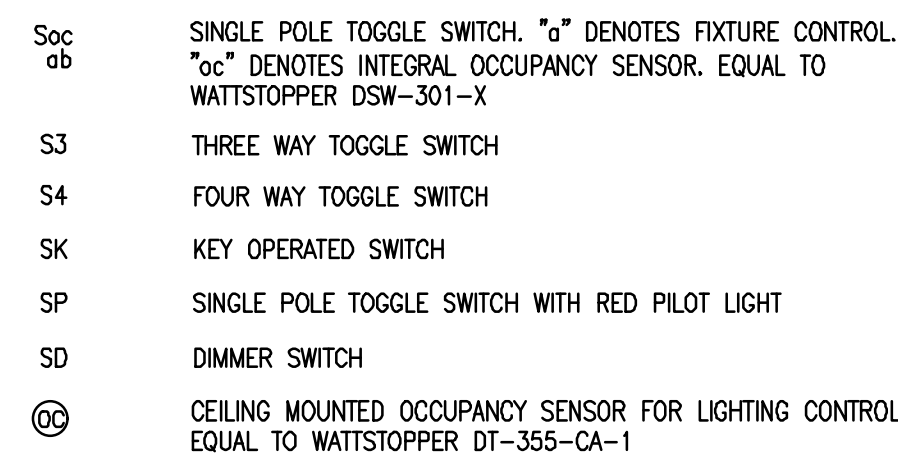
NOTES:

- GREEN GROUND CONDUCTOR NOT INDICATED BUT SHALL BE INCLUDED IN EACH RACEWAY. SIZE SHALL BE #12AWG UNLESS INDICATED OTHERWISE.
- 2#10, #10G EMERGENCY ONLY WIRING
- CT CABLE TRAY - REFER TO SPECIFICATIONS FOR REQUIREMENTS
- J J HOOKS 3"-0" ON CENTER
- P PRIMARY CONDUIT DUCT BANK
- S SECONDARY CONDUIT DUCT BANK
- T TELEPHONE SERVICE CONDUIT DUCT BANK
- CATV CABLE TELEVISION CONDUIT DUCT BANK

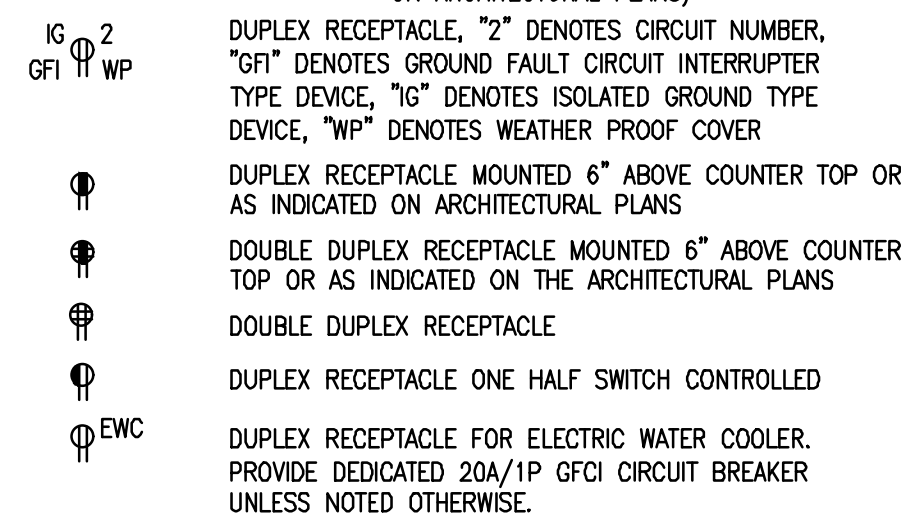
LIGHTING FIXTURES (REFER TO LIGHTING FIXTURE SCHEDULE FOR EXACT FIXTURE TYPE)



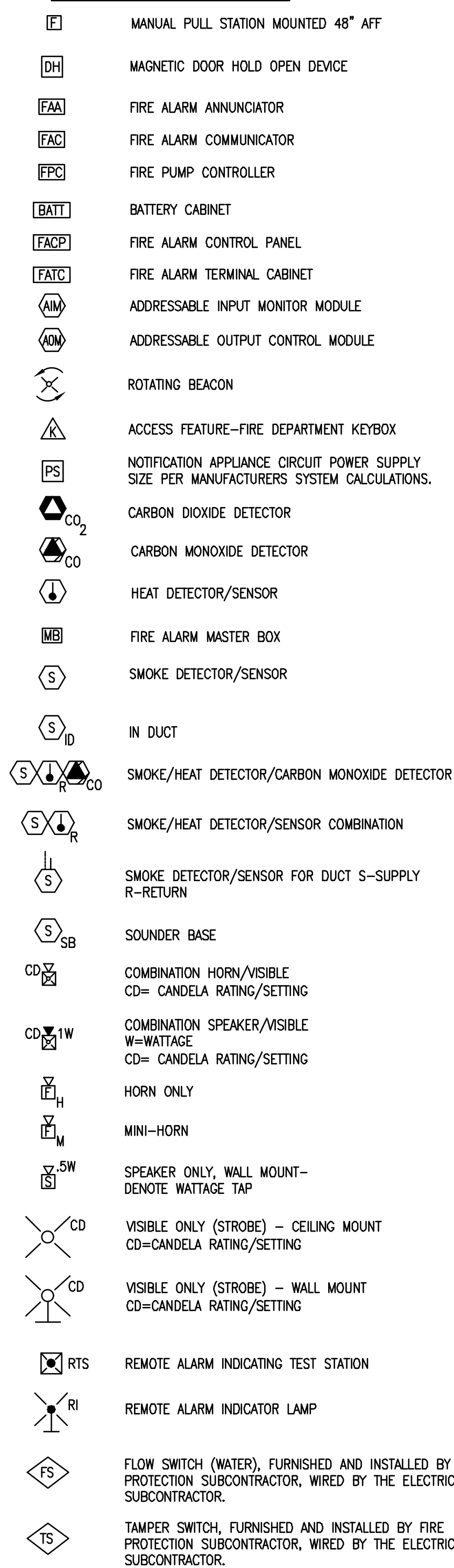
LIGHTING CONTROL DEVICES



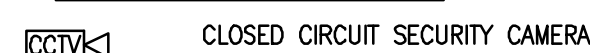
RECEPTACLES (MOUNTED 18" AFF OR AS INDICATED ON ARCHITECTURAL PLANS)



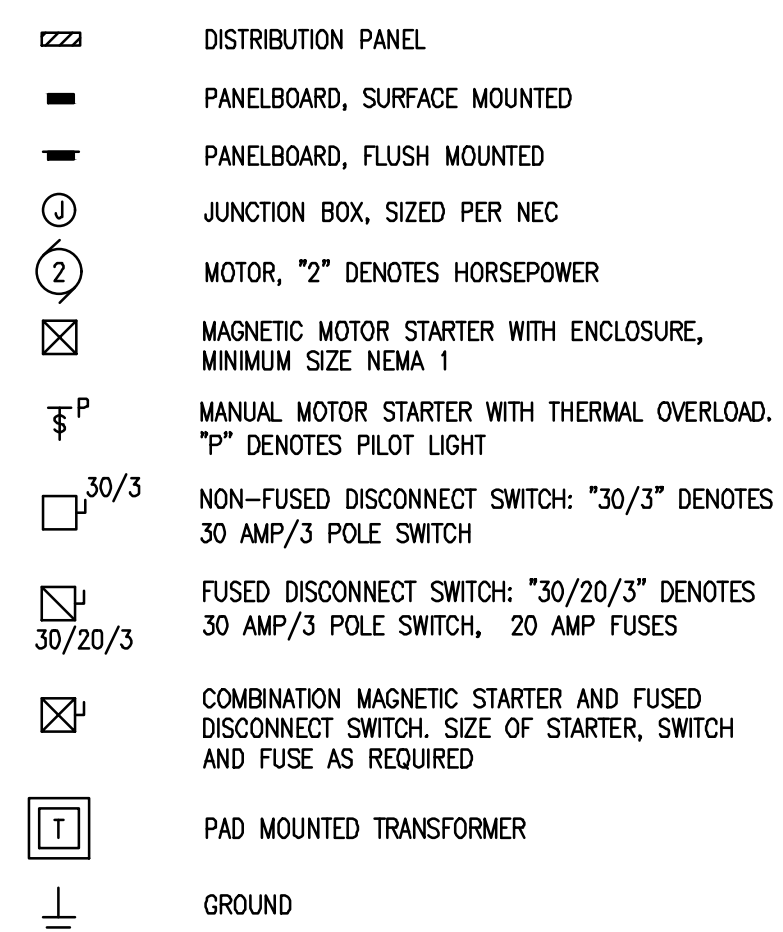
FIRE ALARM SYSTEM



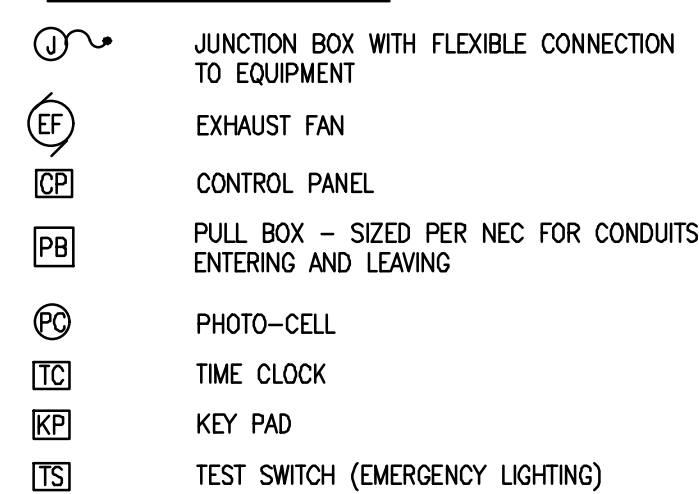
SECURITY SYSTEM



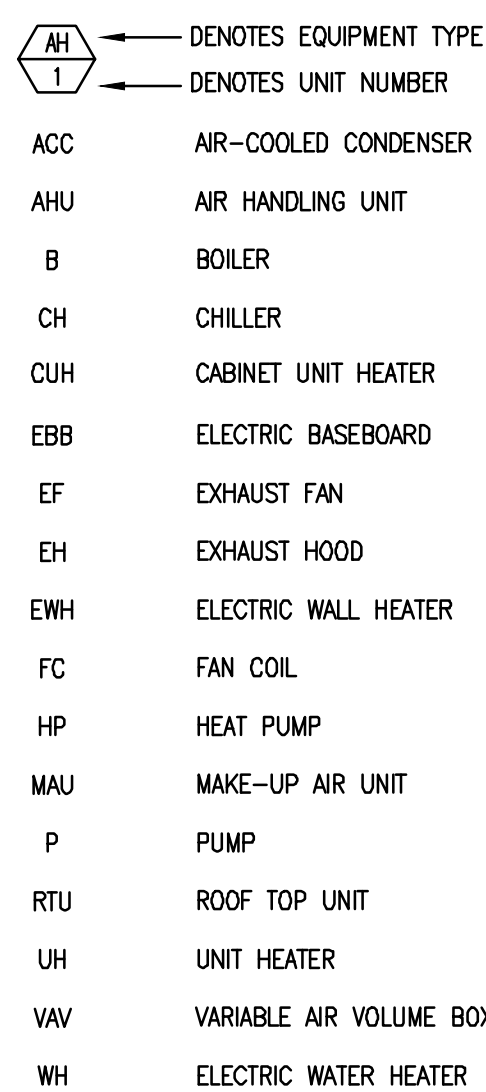
POWER DISTRIBUTION EQUIPMENT



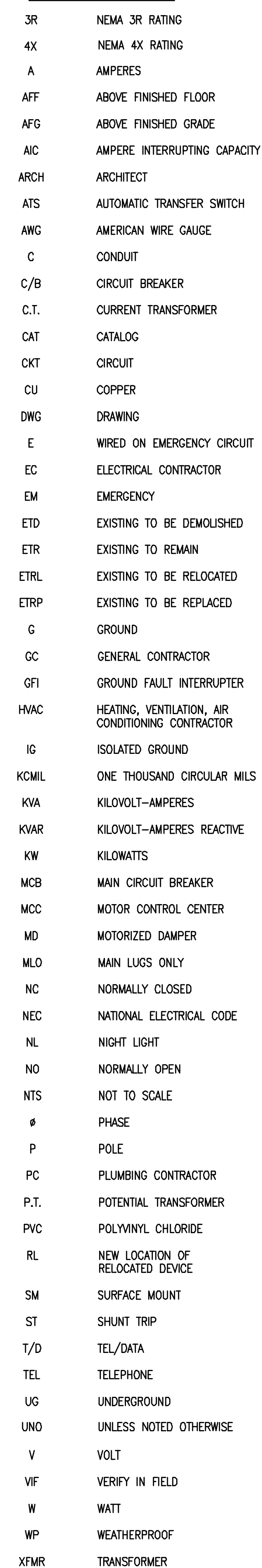
MISCELLANEOUS



MECHANICAL EQUIPMENT TAG ABBREVIATIONS



ABBREVIATIONS



LIGHTING FIXTURE SCHEDULE							
TYPE	DESCRIPTION	MANUFACTURER & CATALOG NUMBER	LAMPS			REMARKS	
			NUMBER	TYPE	VOLTS		WATTS
F1	RECESSED 2'x4' LED FLAT PANEL	ORACLE LIGHTING 24-FPL1-LED-4000/5000/6000L/DIM10-MVOLT-35K/40K/50K	-	LED	120	53	INITIAL FIXTURE SETTING SHALL BE 5000 LUMENS AND 40K COLOR TEMP
F2	RECESSED 2'x2' LED FLAT PANEL	ORACLE LIGHTING 22-FPL1-LED-2000/3000/4000L/DIM10-MVOLT-35K/40K/50K	-	LED	120	42	INITIAL FIXTURE SETTING SHALL BE 4000 LUMENS AND 40K COLOR TEMP

LIGHTING FIXTURE NOTES:

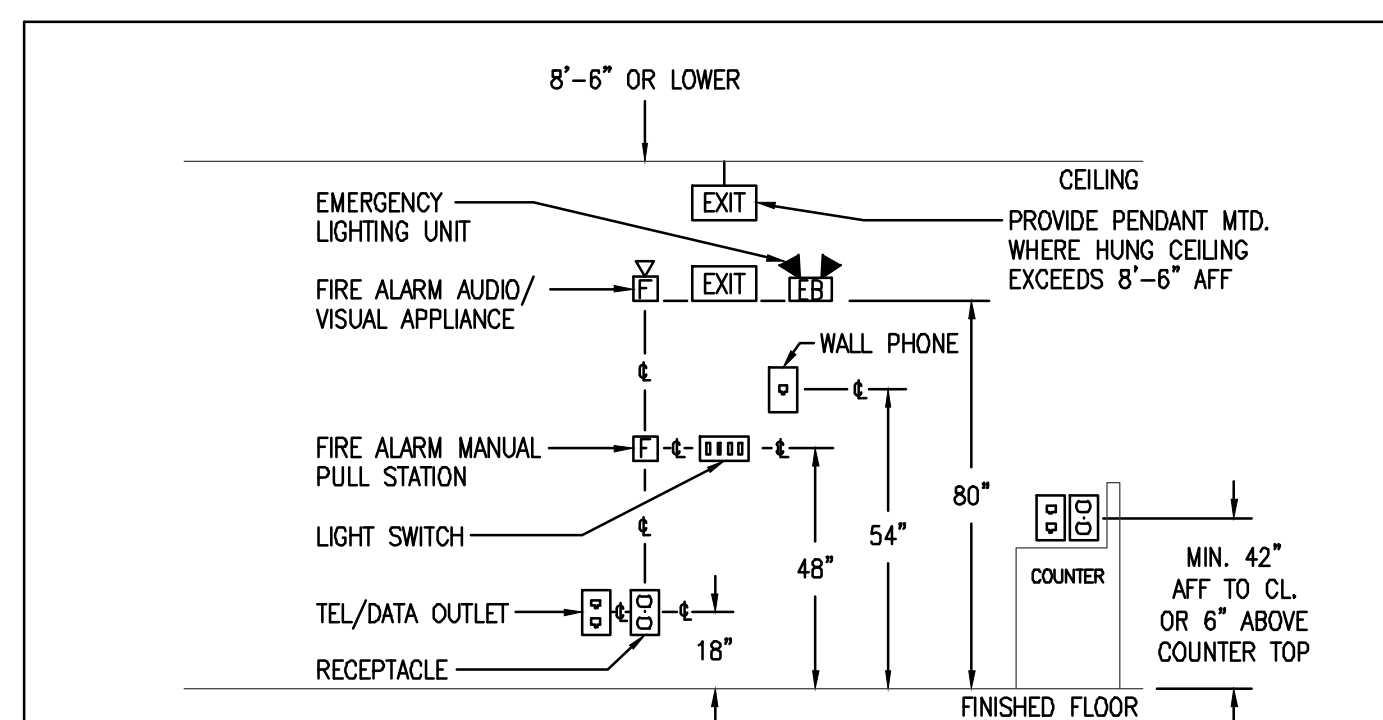
- PROVIDE ACCESSORIES AND MOUNTING HARDWARE FOR ALL FIXTURES.
- COLORS SHALL BE AS SELECTED BY ARCHITECT.
- COORDINATE EXACT LOCATION WITH ARCHITECT'S REFLECTED CEILING PLAN PRIOR TO ROUGH-IN.
- E.C. SHALL ENSURE THAT ALL PROPOSED SWITCHES AND DIMMER SWITCHES ARE COMPATIBLE WITH THE LIGHT FIXTURE(S) INDICATED TO BE CONTROLLED. INSTALL ALL SWITCHES AND DIMMER SWITCHES PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.

DEMOLITION AND REMOVAL WORK

- REMOVE ALL ELECTRICAL EQUIPMENT, WIRING, AND OTHER ELECTRICAL WORK AS REQUIRED. DISCONNECT LOAD AND LINE END OF CONDUCTORS FEEDING DEVICES WHICH ARE TO BE REMOVED OR ABANDONED. REMOVE CONDUCTORS NO LONGER IN USE. CUT BACK TO FLOOR, WALL, OR CEILING AND PLUG BOTH ENDS OF CONCEALED CONDUITS MADE OBSOLETE BY THIS ALTERATION. REMOVE EXPOSED OR ABANDONED CIRCUITS AND OUTLETS. REMOVE MATERIAL AND EQUIPMENT AND DISPOSE OF AS DIRECTED.
- WHEREVER IT IS REQUIRED TO DISCONNECT OR REMOVE ANY PART OF AN EXISTING CIRCUIT, IMMEDIATELY RECONNECT THAT CIRCUIT OR REESTABLISH SERVICE IN THE REMAINING PORTION OF THE CIRCUIT.
- THE WORK SHALL ALSO INCLUDE THE REMOVAL OF MATERIALS AS DIRECTED. PRIOR TO REMOVING EQUIPMENT AND MATERIAL FROM PROJECT SITE, THE BUILDING MANAGER OR OWNER WILL INSPECT AND ADVISE WHICH ITEMS WILL BE STORED.
- WHERE EXISTING RECEPTACLES AND/OR SWITCHES ARE LOCATED IN COLUMNS AND/OR EXTERIOR WALLS, AND ARE NOT TO BE REUSED, REMOVE RECEPTACLE AND CAP OUTLET BOX. RECEPTACLES SHOWN ON PARTITIONS TO BE REMOVED SHALL HAVE ALL WIRING AND CONDUIT REMOVED AS WELL.
- WHERE PRESENT WORK IS DAMAGED IN THE EXECUTION OF THIS CONTRACT, OR WHERE OPENINGS ARE LEFT DUE TO THE REMOVAL OF CONDUITS, EQUIPMENT, OR APPARATUS, THE SAME SHALL BE REPAIRED OR CLOSED UP TO CORRESPOND IN MATERIAL, QUALITY, SHAPE, AND FINISH WITH THAT OR SIMILAR AND ADJOINING WORK, UNLESS OTHERWISE CALLED FOR.
- SHOULD ANY DAMAGE DUE TO THE EXECUTION OF THIS CONTRACT OCCUR TO THE FURNITURE, FIXTURES, OR ANY OTHER EQUIPMENT OR APPARATUS, SUCH DAMAGES SHALL BE PROPERLY REPAIRED WITH THE SUPPLY OF NEW ARTICLES AND MADE GOOD WITHOUT EXTRA CHARGE.
- WHERE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT WILL RESULT IN OUTAGES IN AREA NOT TO BE DEMOLISHED, THIS CONTRACTOR SHALL COORDINATE IN ADVANCE AND OBTAIN THE APPROVAL OF THE BUILDING MANAGER OR OWNER.

BRANCH CIRCUIT WIRING NOTES:

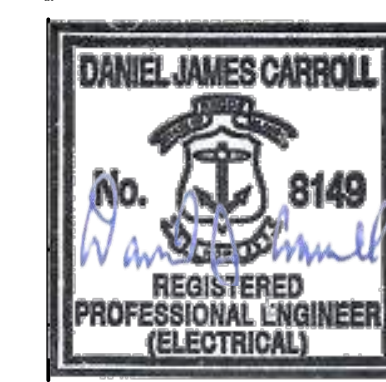
- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.
- ALTHOUGH ALL BRANCH CIRCUIT WIRING AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- A GREEN GROUNDING CONDUCTOR SHALL BE RUN WITH ALL CIRCUITS. VERIFY CONDUIT SIZE TO ENSURE IT CAN ACCOMMODATE ALL PHASE, NEUTRAL AND GROUND CONDUCTORS.
- PROVIDE A NEUTRAL CONDUCTOR TO ALL NEW LIGHTING SWITCH BOXES PER NEC ARTICLE 404.2.
- IN ALL NON-DWELLING TYPE OCCUPANCIES, ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR LESS, AND ALL RECEPTACLES SUPPLIED BY THREE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS, SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL PER NEC ARTICLE 210.8(B)(2).
- PROVIDE TAMPER RESISTANT RECEPTACLES IN ALL AREAS REQUIRED BY NEC ARTICLE 406.12.
- WHERE EXISTING SWITCHES AND RECEPTACLES ARE INDICATED TO REMAIN, THIS CONTRACTOR SHALL REPLACE SAID DEVICE(S) AND DEVICE PLATE(S) WITH NEW TO MATCH THE NEW CONSTRUCTION. WHERE THEY ARE INDICATED AS RELOCATED, EXTEND BRANCH CIRCUIT WIRING TO NEW LOCATION AND PROVIDE NEW DEVICE AND DEVICE PLATE TO MATCH NEW CONSTRUCTION.
- ALL SELF CONTAINED EMERGENCY LIGHTING UNITS AND EXIT LIGHTING IN THE BUILDING SHALL BE CONNECTED TO THE NEAREST UNSWITCHED LIGHTING CIRCUIT IN THE AREA WITH 2#12, #12G, 3/4" CONDUIT UNLESS OTHERWISE NOTED.



- NOTES:**
- INSTALL DEVICES ON ONE COMMON VERTICAL CENTERLINE.
 - INSTALL DEVICES AT THIS HEIGHT WHEREVER APPLICABLE.

DETAIL OF TYPICAL DEVICE MOUNTING HEIGHTS

NTS



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for
Warwick School Department

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Revision Number	Revision Date
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SHEET TITLE

ELECTRICAL LEGEND, LIGHTING FIXTURE SCHEDULE AND NOTES

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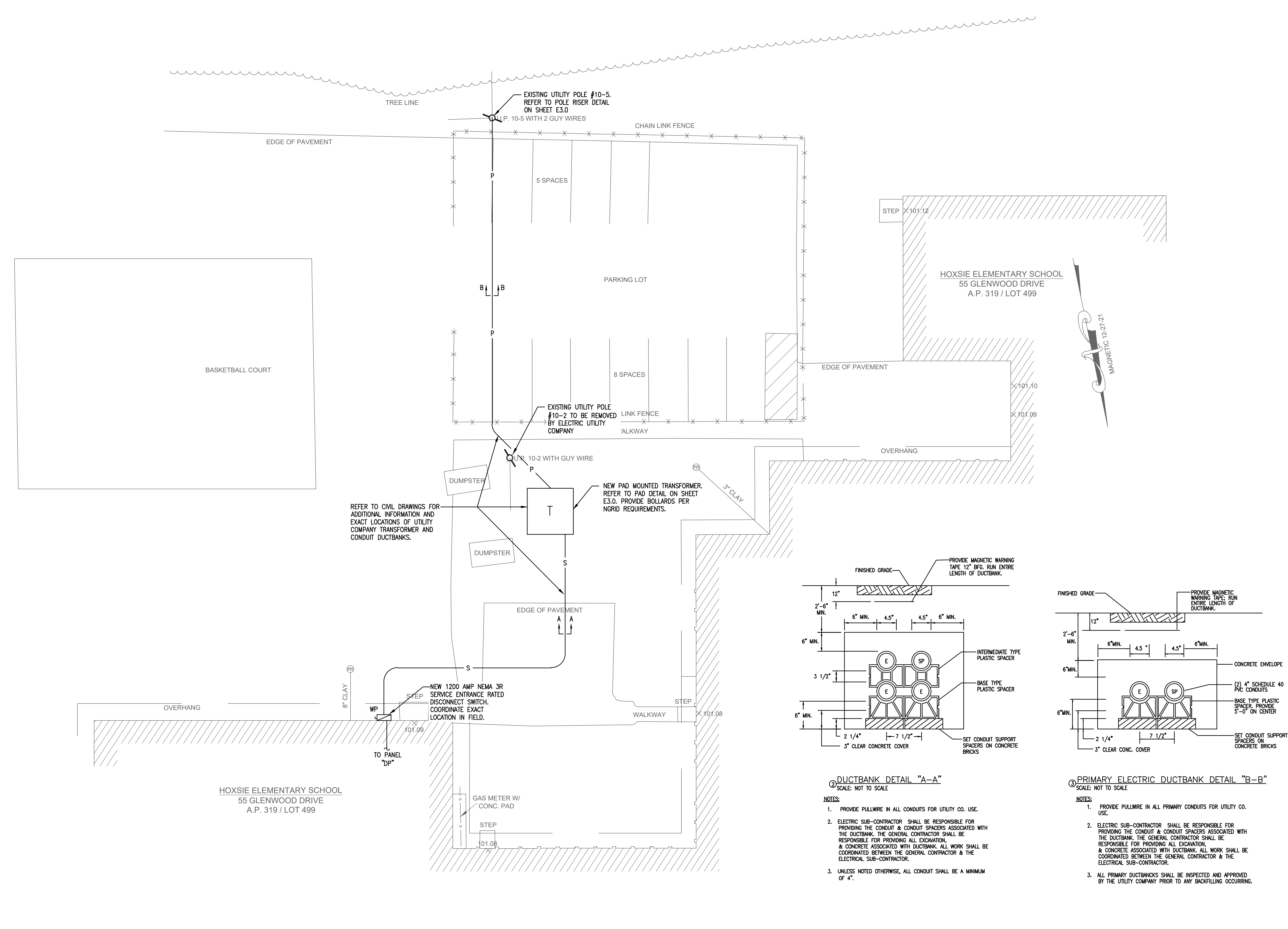
ELECTRICAL SITE PLAN

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1 ELECTRICAL SITE PLAN
 3/32" = 1'-0"

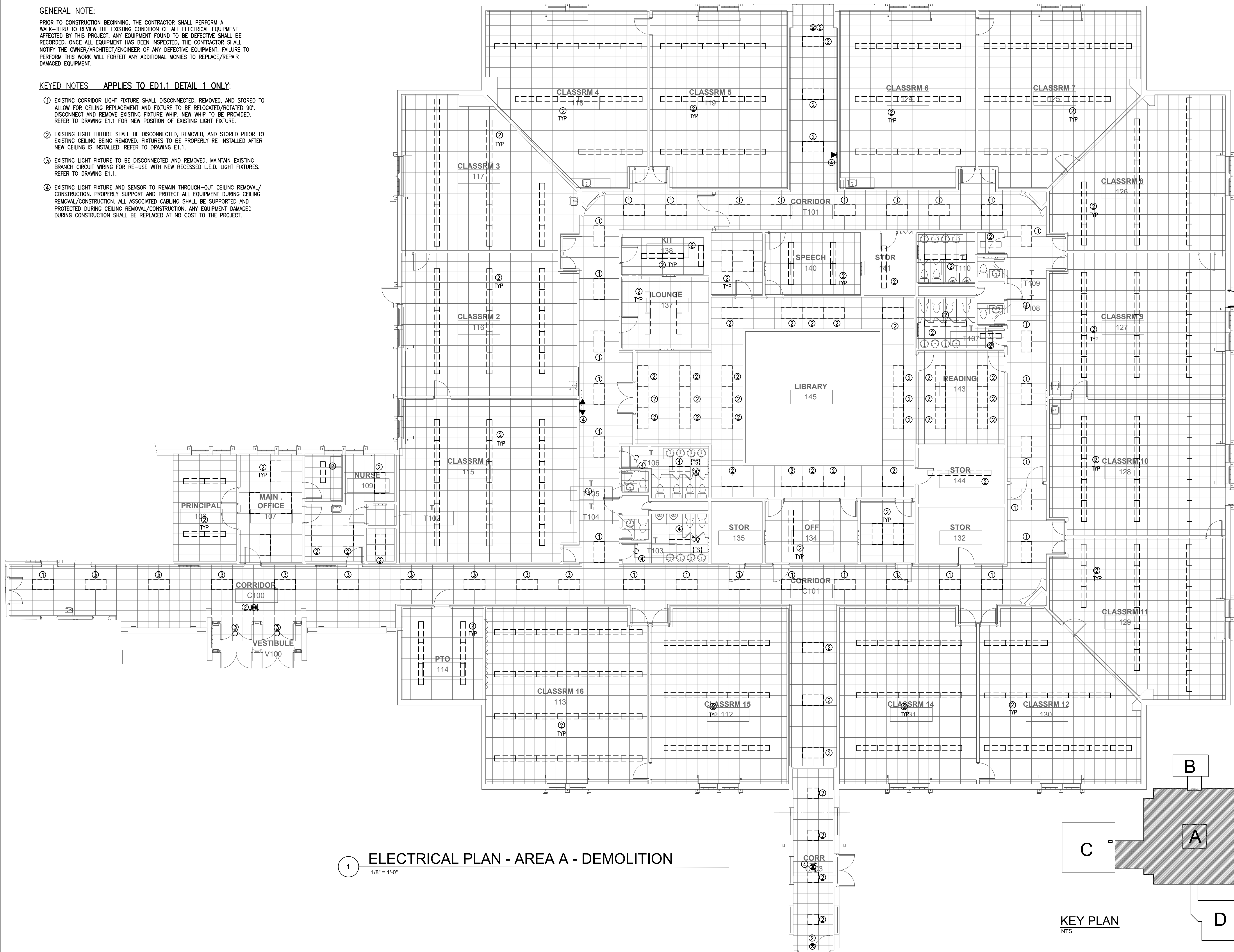
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GENERAL NOTE:

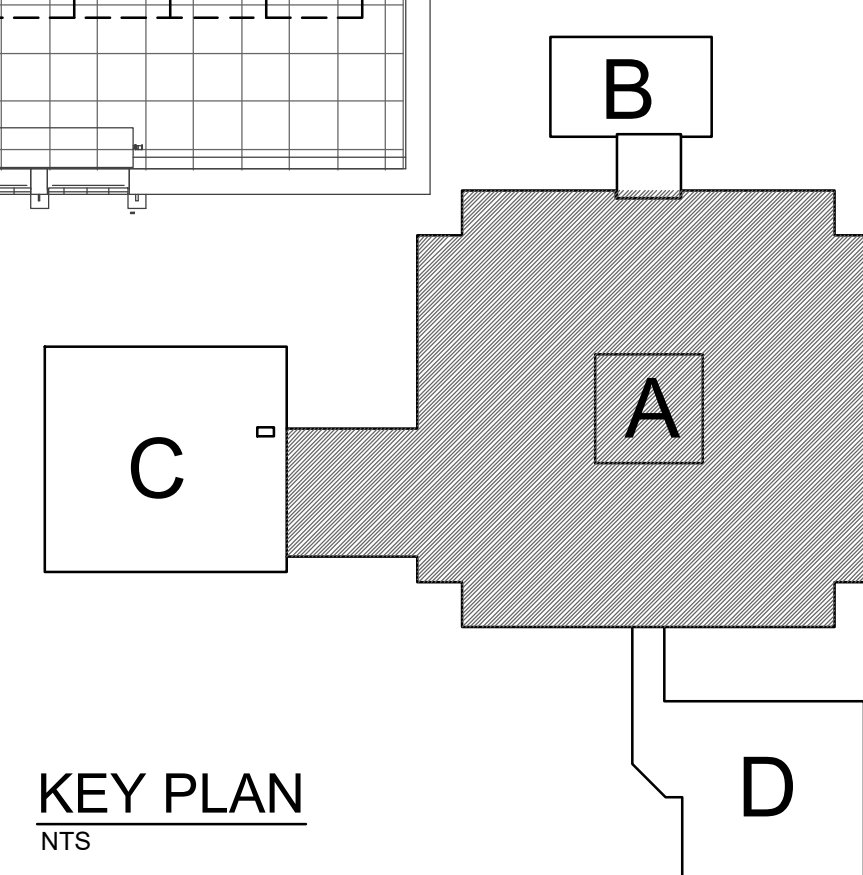
PRIOR TO CONSTRUCTION BEGINNING, THE CONTRACTOR SHALL PERFORM A WALK-THRU TO REVIEW THE EXISTING CONDITION OF ALL ELECTRICAL EQUIPMENT AFFECTED BY THIS PROJECT. ANY EQUIPMENT FOUND TO BE DEFECTIVE SHALL BE RECORDED. ONCE ALL EQUIPMENT HAS BEEN INSPECTED, THE CONTRACTOR SHALL NOTIFY THE OWNER/ARCHITECT/ENGINEER OF ANY DEFECTIVE EQUIPMENT. FAILURE TO PERFORM THIS WORK WILL FORFEIT ANY ADDITIONAL MONIES TO REPLACE/REPAIR DAMAGED EQUIPMENT.

KEYED NOTES -- APPLIES TO ED1.1 DETAIL 1 ONLY:

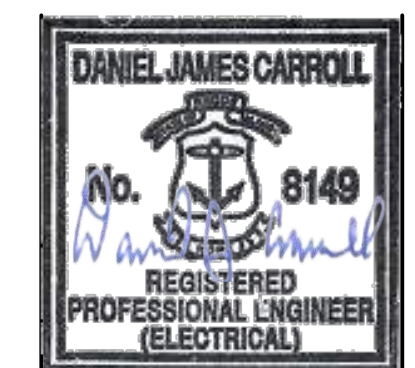
- ① EXISTING CORRIDOR LIGHT FIXTURE SHALL BE DISCONNECTED, REMOVED, AND STORED TO ALLOW FOR CEILING REPLACEMENT AND FIXTURE TO BE RELOCATED/ROTATED 90°. DISCONNECT AND REMOVE EXISTING FIXTURE WHIP. NEW WHIP TO BE PROVIDED. REFER TO DRAWING E1.1 FOR NEW POSITION OF EXISTING LIGHT FIXTURE.
- ② EXISTING LIGHT FIXTURE SHALL BE DISCONNECTED, REMOVED, AND STORED PRIOR TO EXISTING CEILING BEING REMOVED. FIXTURES TO BE PROPERLY RE-INSTALLED AFTER NEW CEILING IS INSTALLED. REFER TO DRAWING E1.1.
- ③ EXISTING LIGHT FIXTURE TO BE DISCONNECTED AND REMOVED. MAINTAIN EXISTING BRANCH CIRCUIT WIRING FOR RE-USE WITH NEW RECESSED L.E.D. LIGHT FIXTURES. REFER TO DRAWING E1.1.
- ④ EXISTING LIGHT FIXTURE AND SENSOR TO REMAIN THROUGH-OUT CEILING REMOVAL/CONSTRUCTION. PROPERLY SUPPORT AND PROTECT ALL EQUIPMENT DURING CEILING REMOVAL/CONSTRUCTION. ALL ASSOCIATED CABLING SHALL BE SUPPORTED AND PROTECTED DURING CEILING REMOVAL/CONSTRUCTION. ANY EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT NO COST TO THE PROJECT.



① **ELECTRICAL PLAN - AREA A - DEMOLITION**
1/8" = 1'-0"



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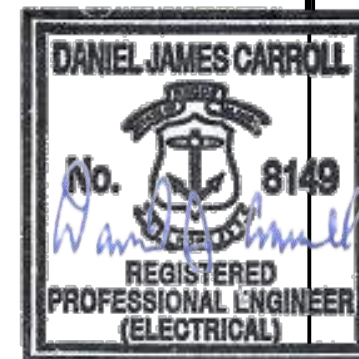
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ELECTRICAL PLAN - AREA A - LIGHTING DEMOLITION

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ELECTRICAL PLANS - AREAS
 B, C & D - LIGHTING
 DEMOLITION

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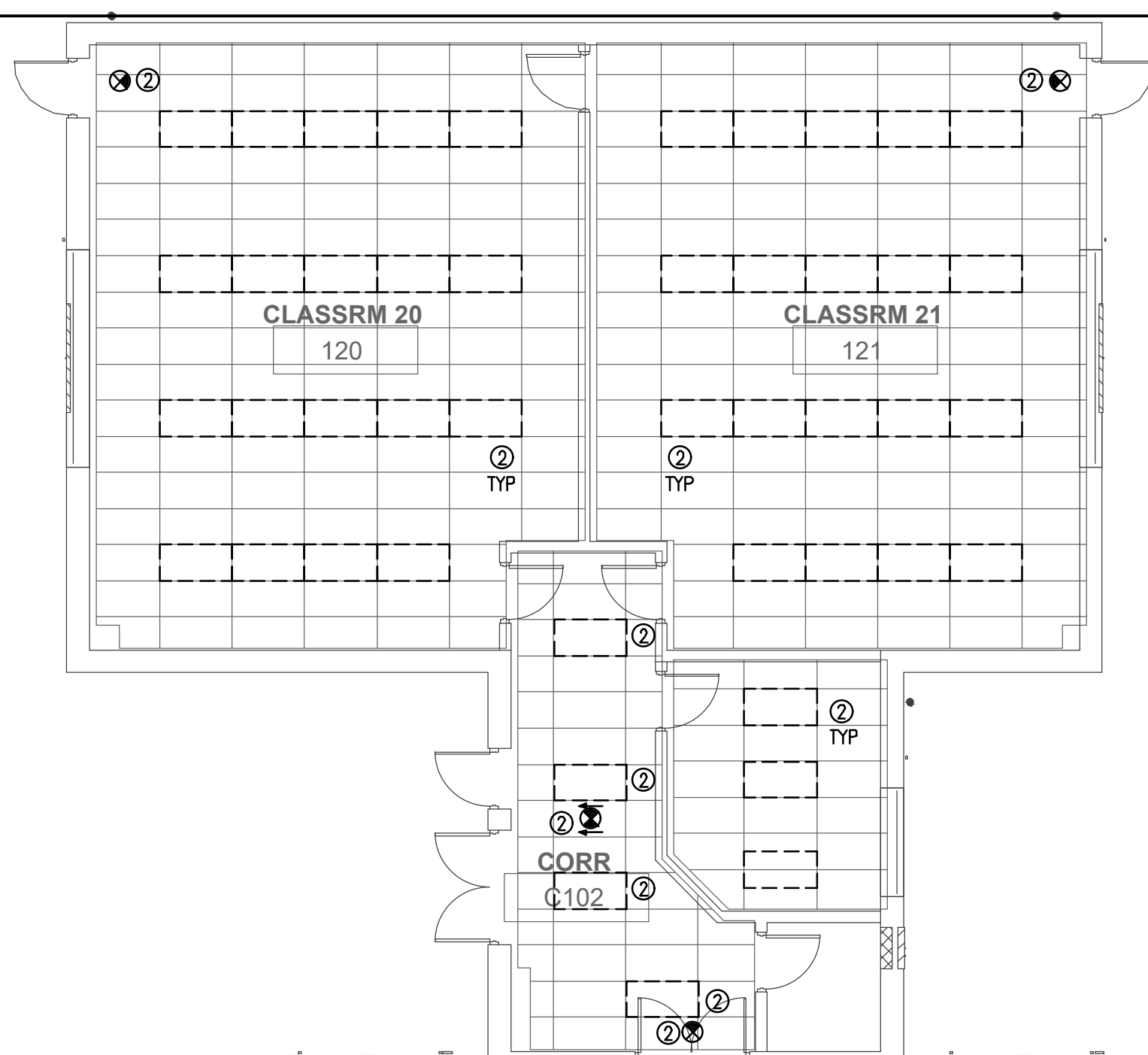
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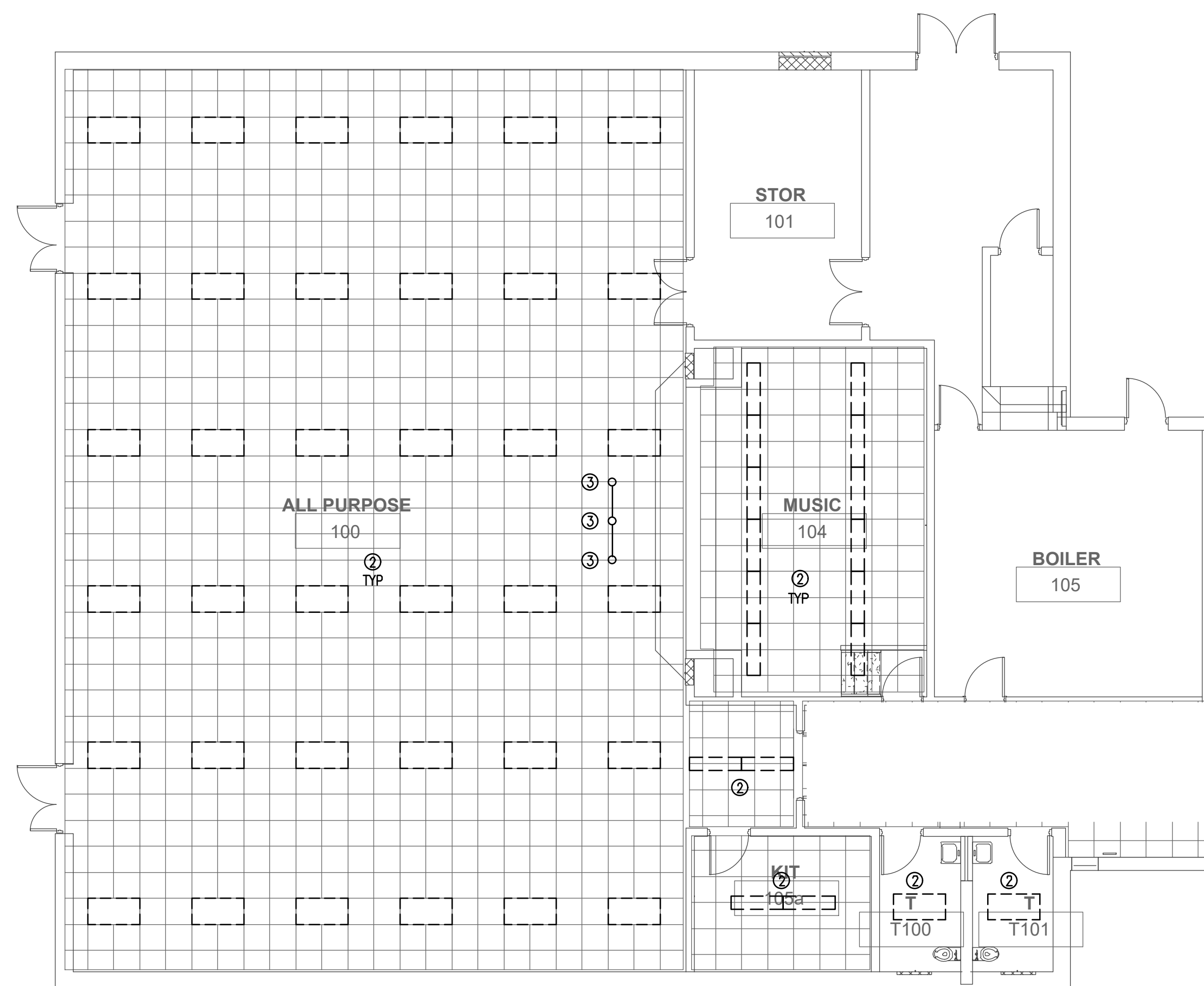
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BER# 21228



1 ELECTRICAL PLAN - AREA B - DEMOLITION
 1/8" = 1'-0"



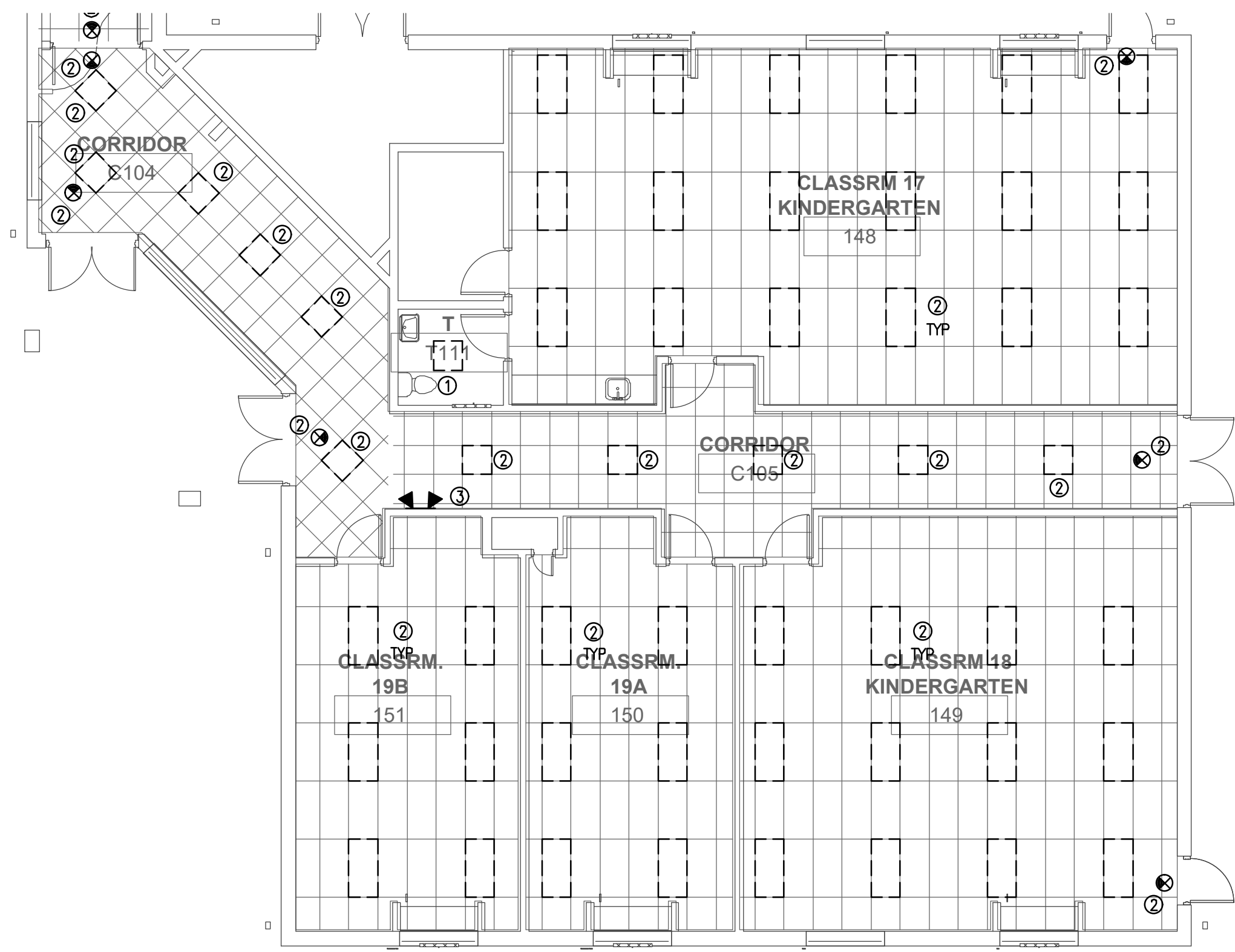
2 ELECTRICAL PLAN - AREA C - DEMOLITION
 1/8" = 1'-0"

GENERAL NOTE:

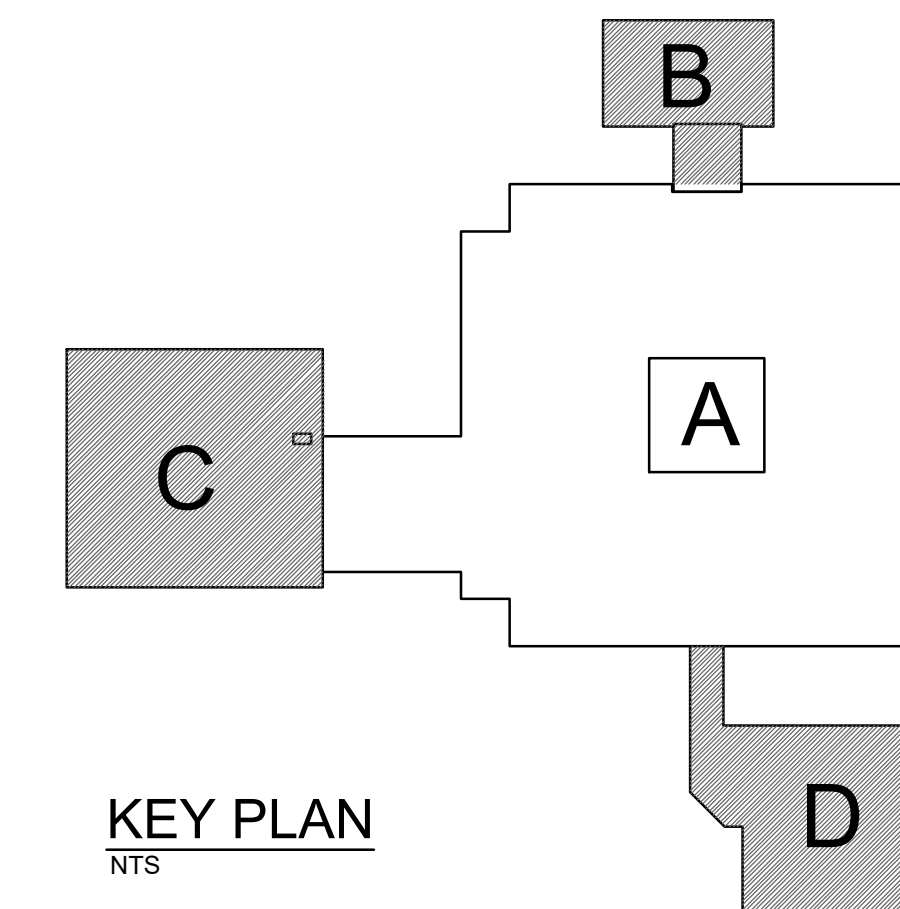
PRIOR TO CONSTRUCTION BEGINNING, THE CONTRACTOR SHALL PERFORM A WALK-THRU TO REVIEW THE EXISTING CONDITION OF ALL ELECTRICAL EQUIPMENT AFFECTED BY THIS PROJECT. ANY EQUIPMENT FOUND TO BE DEFECTIVE SHALL BE RECORDED. ONCE ALL EQUIPMENT HAS BEEN INSPECTED, THE CONTRACTOR SHALL NOTIFY THE OWNER/ARCHITECT/ENGINEER OF ANY DEFECTIVE EQUIPMENT. FAILURE TO PERFORM THIS WORK WILL FORFEIT ANY ADDITIONAL MONIES TO REPLACE/REPAIR DAMAGED EQUIPMENT.

KEYED NOTES -- APPLIES TO ED1.2 DETAIL 1, 2, & 3 ONLY:

- ① EXISTING LIGHT FIXTURE TO BE DEMOLISHED. MAINTAIN EXISTING BRANCH CIRCUIT WIRING FOR RE-USE WITH NEW RECESSED L.E.D. FIXTURES.
- ② EXISTING LIGHT FIXTURE SHALL BE DISCONNECT, REMOVED, AND STORED PRIOR TO EXISTING CEILING BEING REMOVED. FIXTURES TO BE PROPERLY RE-INSTALLED AFTER NEW CEILING IS INSTALLED. REFER TO DRAWING E1.2.
- ③ EXISTING LIGHT FIXTURE TO REMAIN THROUGH-OUT CEILING REMOVAL/CONSTRUCTION. PROPERLY SUPPORT AND PROTECT ALL EQUIPMENT DURING CEILING REMOVAL/CONSTRUCTION. ALL ASSOCIATED CABLING SHALL BE SUPPORTED AND PROTECTED DURING CEILING REMOVAL/CONSTRUCTION. ANY EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT NO COST TO THE PROJECT.



3 ELECTRICAL PLAN - AREA D - DEMOLITION
 1/8" = 1'-0"



KEY PLAN
 NTS

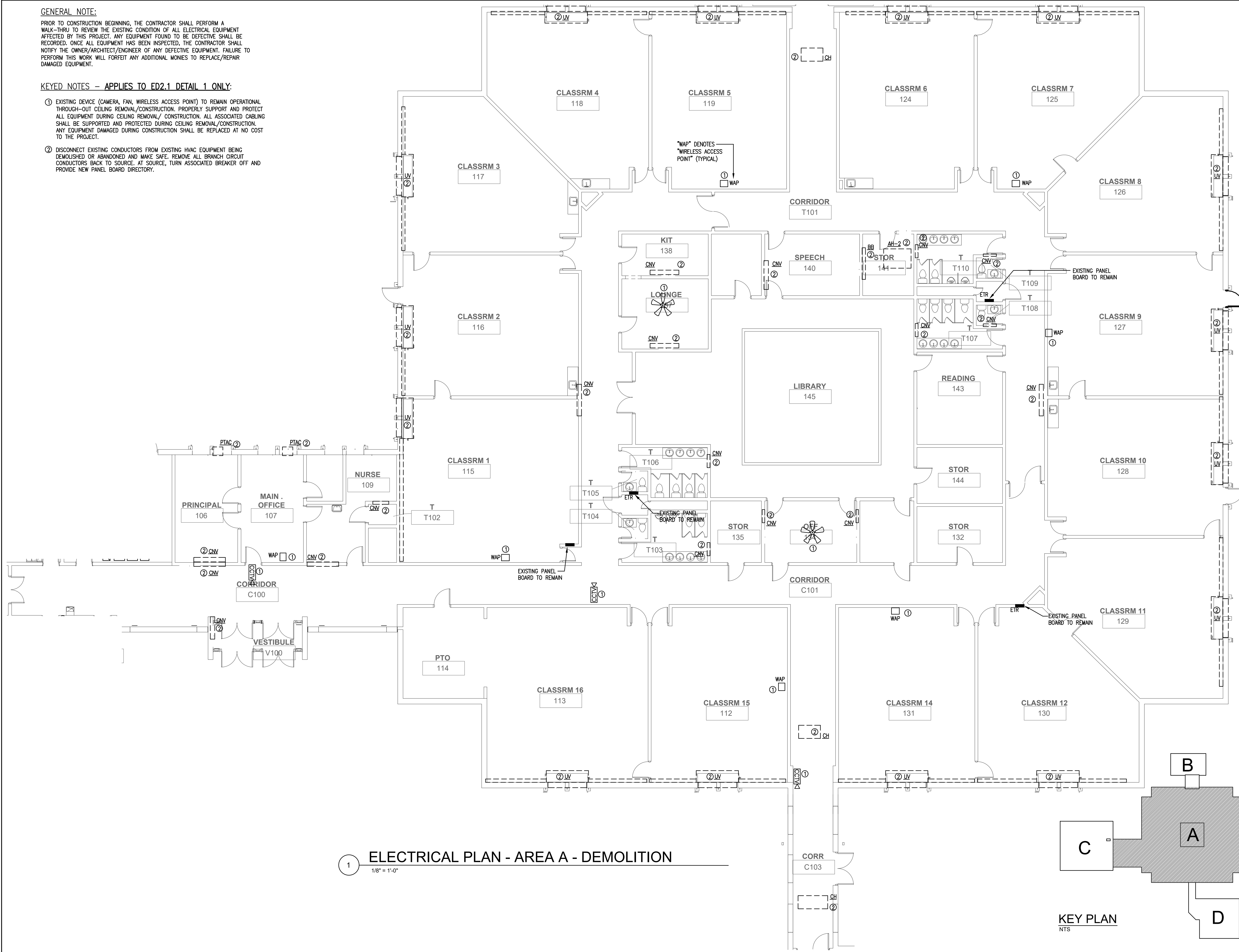
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GENERAL NOTE:

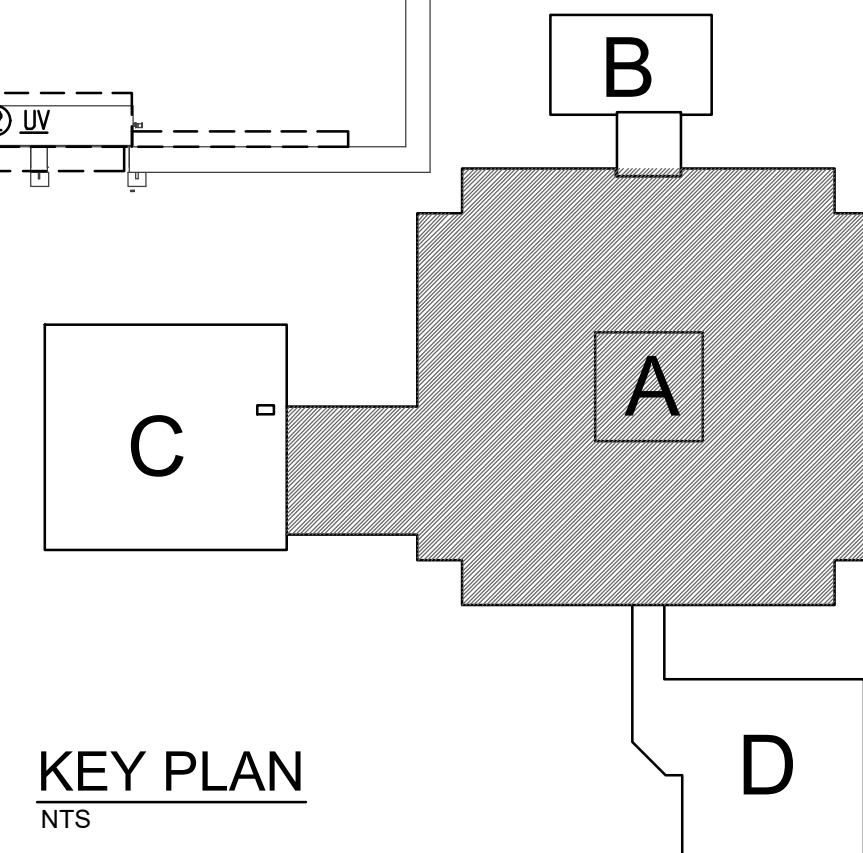
PRIOR TO CONSTRUCTION BEGINNING, THE CONTRACTOR SHALL PERFORM A WALK-THRU TO REVIEW THE EXISTING CONDITION OF ALL ELECTRICAL EQUIPMENT AFFECTED BY THIS PROJECT. ANY EQUIPMENT FOUND TO BE DEFECTIVE SHALL BE RECORDED. ONCE ALL EQUIPMENT HAS BEEN INSPECTED, THE CONTRACTOR SHALL NOTIFY THE OWNER/ARCHITECT/ENGINEER OF ANY DEFECTIVE EQUIPMENT. FAILURE TO PERFORM THIS WORK WILL FORFEIT ANY ADDITIONAL MONIES TO REPLACE/REPAIR DAMAGED EQUIPMENT.

KEYED NOTES -- APPLIES TO ED2.1 DETAIL 1 ONLY:

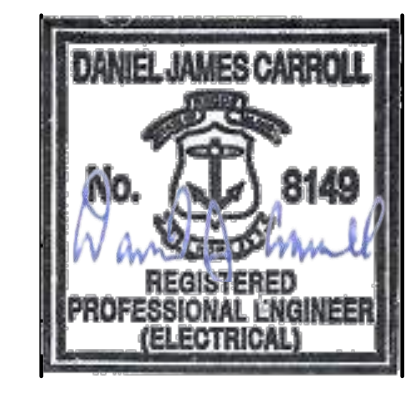
- ① EXISTING DEVICE (CAMERA, FAN, WIRELESS ACCESS POINT) TO REMAIN OPERATIONAL THROUGH-OUT CEILING REMOVAL/CONSTRUCTION. PROPERLY SUPPORT AND PROTECT ALL EQUIPMENT DURING CEILING REMOVAL/ CONSTRUCTION. ALL ASSOCIATED CABLING SHALL BE SUPPORTED AND PROTECTED DURING CEILING REMOVAL/CONSTRUCTION. ANY EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT NO COST TO THE PROJECT.
- ② DISCONNECT EXISTING CONDUCTORS FROM EXISTING HVAC EQUIPMENT BEING DEMOLISHED OR ABANDONED AND MAKE SAFE. REMOVE ALL BRANCH CIRCUIT CONDUCTORS BACK TO SOURCE. AT SOURCE, TURN ASSOCIATED BREAKER OFF AND PROVIDE NEW PANEL BOARD DIRECTORY.



1 **ELECTRICAL PLAN - AREA A - DEMOLITION**
1/8" = 1'-0"



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HVAC UPGRADES
at
Hoxsie Elementary School
55 Glenwood Drive, Warwick, RI 02889

for
Warwick School Department

Revision Schedule	
Revision Number	Revision Date

SHEET TITLE

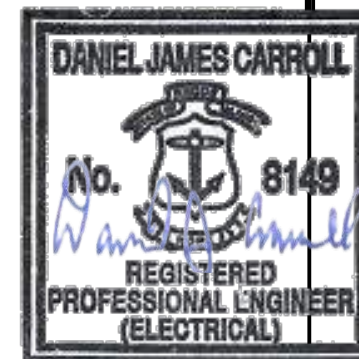
ELECTRICAL PLAN - AREA A - POWER DEMOLITION

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ED2.1

SHEET: 32 OF: 44



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ELECTRICAL PLANS - AREAS B, C & D - POWER DEMOLITION

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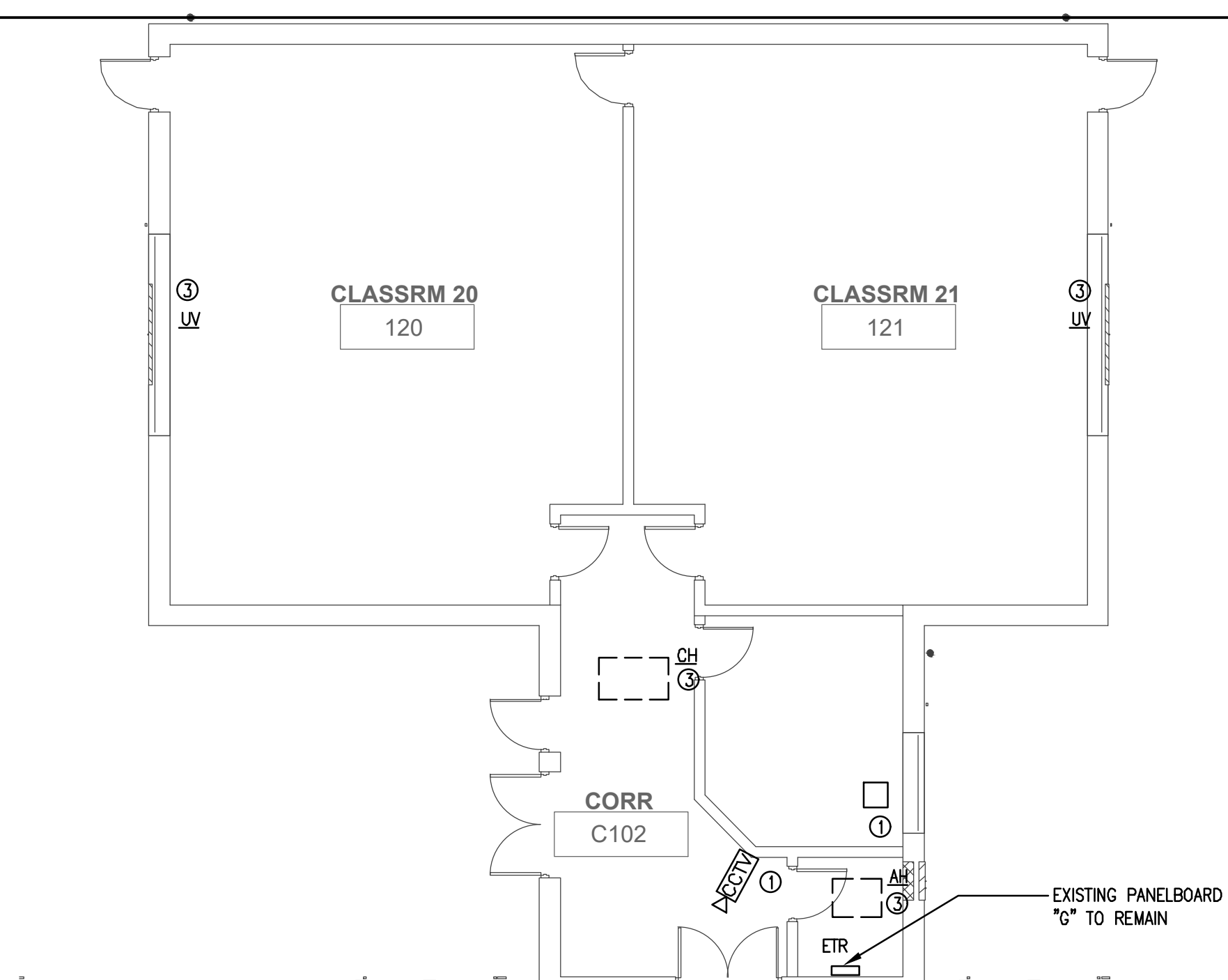
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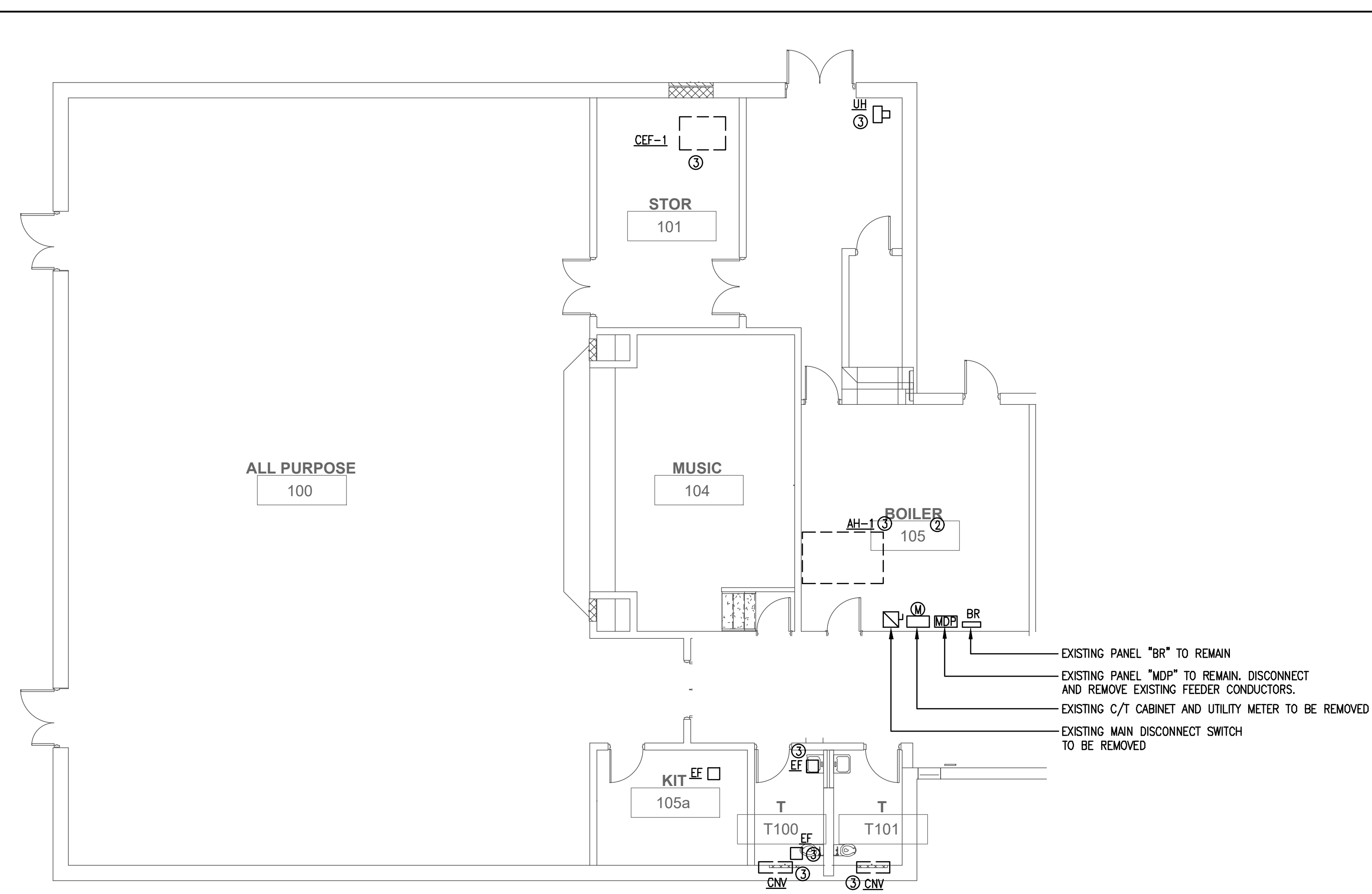
ED2.2

SHEET: 33 OF: 44

BER# 21228



1 ELECTRICAL PLAN - AREA B - DEMOLITION
 1/8" = 1'-0"



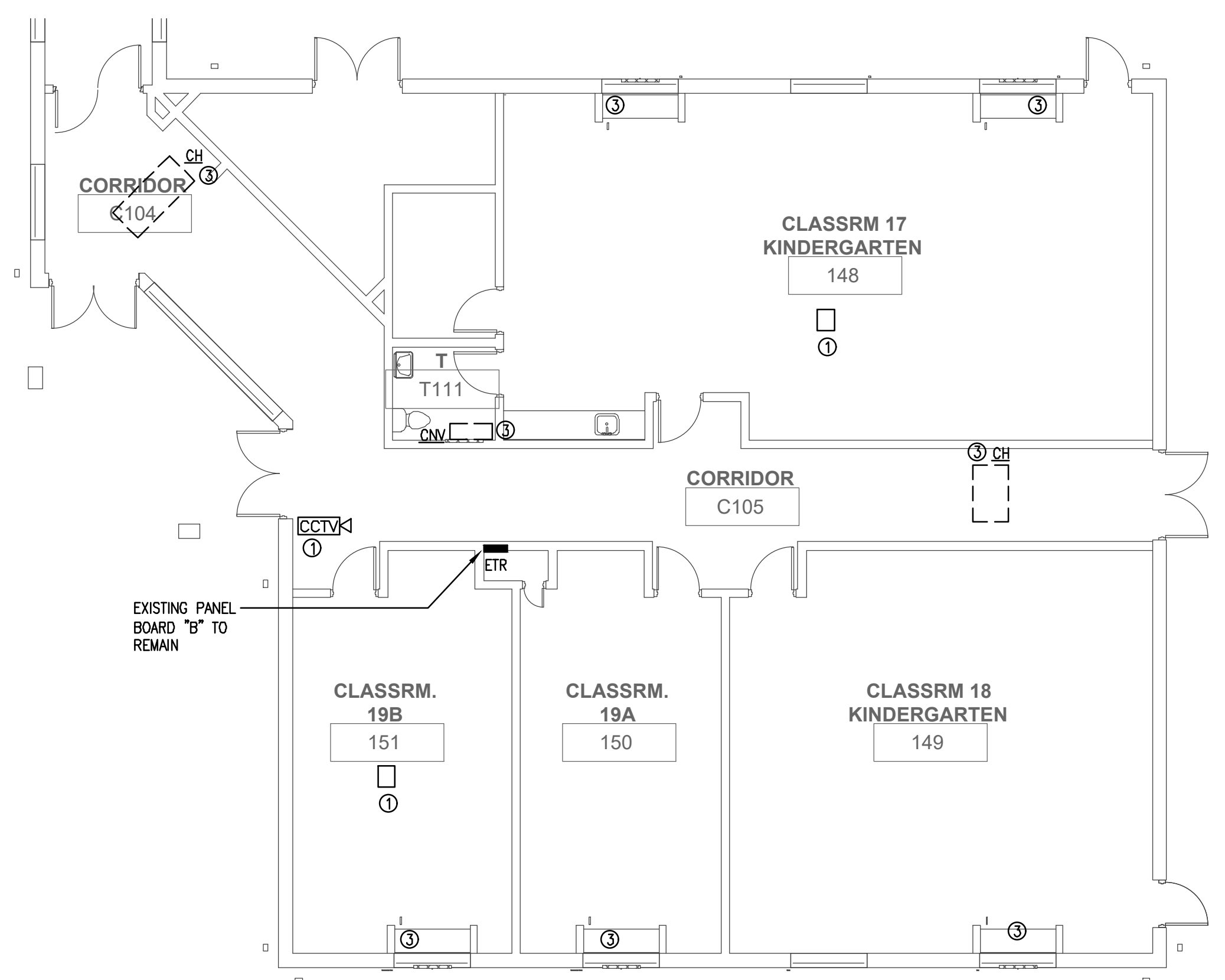
2 ELECTRICAL PLAN - AREA C - DEMOLITION
 1/8" = 1'-0"

GENERAL NOTE:

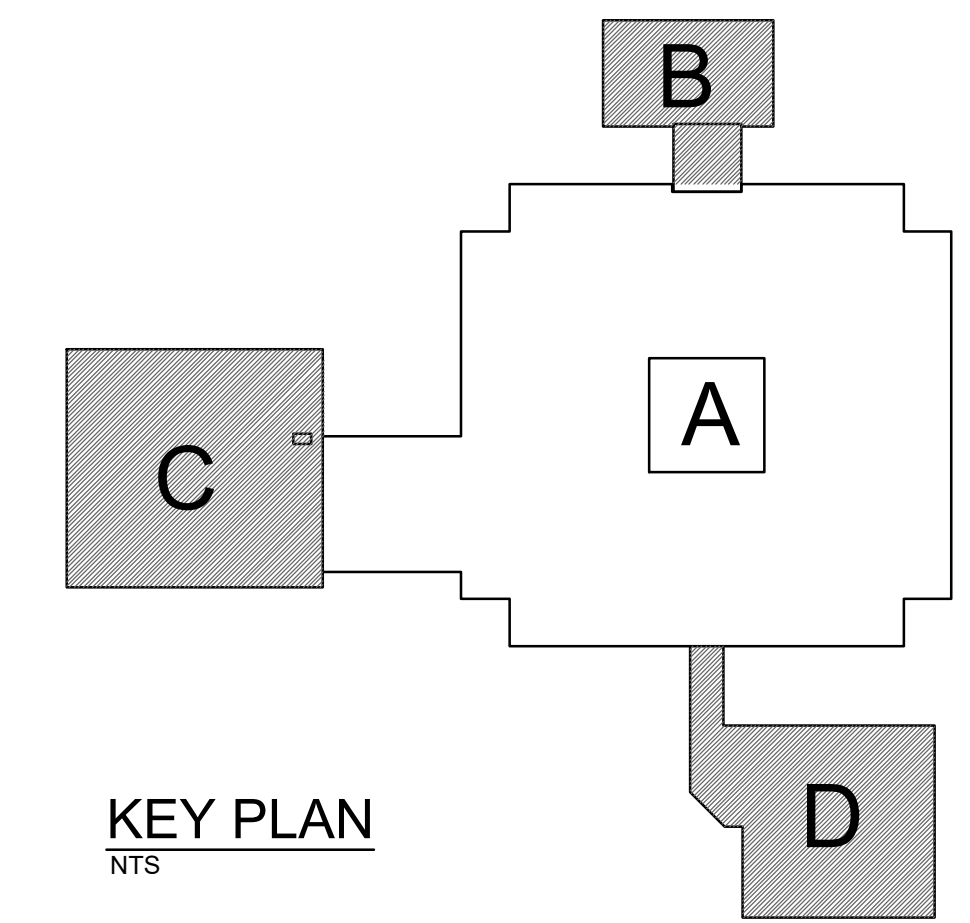
PRIOR TO CONSTRUCTION BEGINNING, THE CONTRACTOR SHALL PERFORM A WALK-THRU TO REVIEW THE EXISTING CONDITION OF ALL ELECTRICAL EQUIPMENT AFFECTED BY THIS PROJECT. ANY EQUIPMENT FOUND TO BE DEFECTIVE SHALL BE RECORDED. ONCE ALL EQUIPMENT HAS BEEN INSPECTED, THE CONTRACTOR SHALL NOTIFY THE OWNER/ARCHITECT/ENGINEER OF ANY DEFECTIVE EQUIPMENT. FAILURE TO PERFORM THIS WORK WILL FORFEIT ANY ADDITIONAL MONIES TO REPLACE/REPAIR DAMAGED EQUIPMENT.

KEYED NOTES -- APPLIES TO ED2.2 DETAIL 1, 2, & 3 ONLY:

- ① EXISTING DEVICE (CAMERA, FAN, WIRELESS ACCESS POINT) TO REMAIN THROUGH-OUT CEILING REMOVAL/CONSTRUCTION. PROPERLY SUPPORT AND PROTECT ALL EQUIPMENT DURING CEILING REMOVAL/ CONSTRUCTION. ALL ASSOCIATED CABLING SHALL BE SUPPORTED AND PROTECTED DURING CEILING REMOVAL/CONSTRUCTION. ANY EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT NO COST TO THE PROJECT.
- ② DISCONNECT EXISTING CONDUCTORS AND MAKE SAFE EXISTING MECHANICAL EQUIPMENT WITHIN ROOM #105. REMOVE ALL BRANCH CIRCUIT CONDUCTORS BACK TO SOURCE. REMOVE ALL EXISTING DISCONNECT SWITCHES/OVERCURRENT PROTECTION DEVICES ASSOCIATED WITH MECHANICAL EQUIPMENT TO BE REMOVED. REFER TO MECHANICAL DRAWING MDA1.2 AND PA2.1 FOR ADDITIONAL INFORMATION. AT SOURCE, TURN ASSOCIATED BREAKER OFF AND PROVIDE NEW PANEL BOARD DIRECTORY.
- ③ DISCONNECT EXISTING CONDUCTORS FROM EXISTING HVAC EQUIPMENT BEING DEMOLISHED AND MAKE SAFE. REMOVE ALL BRANCH CIRCUIT CONDUCTORS BACK TO SOURCE. AT SOURCE, TURN ASSOCIATED BREAKER OFF AND PROVIDE NEW PANELBOARD DIRECTORY.



3 ELECTRICAL PLAN - AREA D - DEMOLITION
 1/8" = 1'-0"

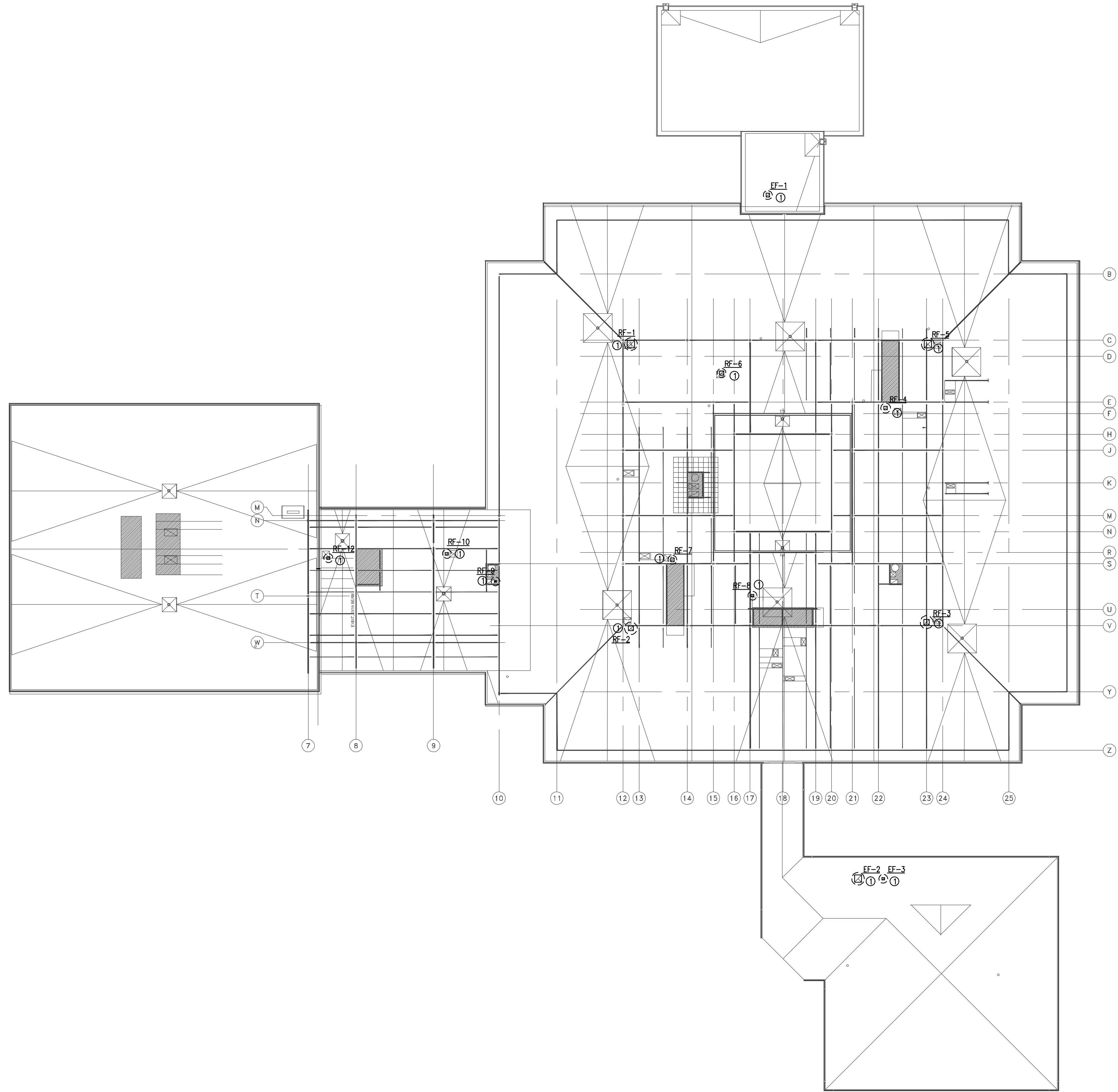


KEY PLAN
 NTS

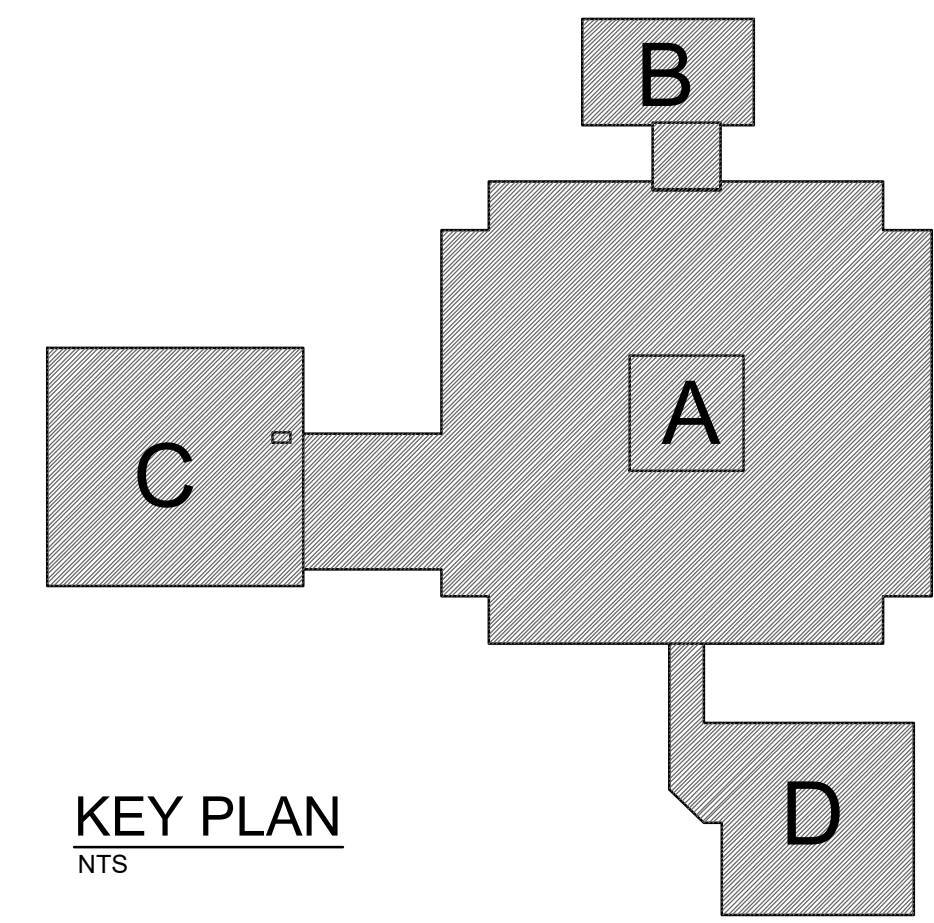
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KEYED NOTES - APPLIES TO ED2.3 DETAIL 1 ONLY:

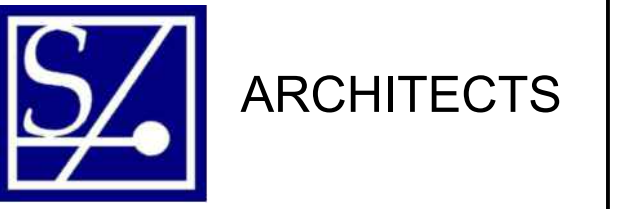
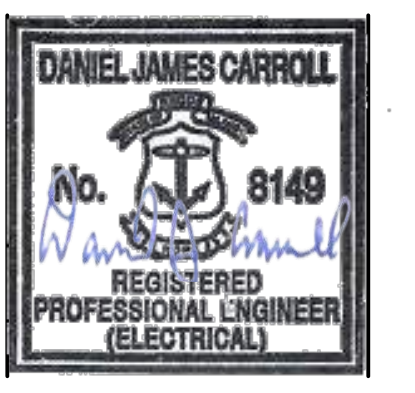
- ① DISCONNECT EXISTING CONDUCTORS FROM EXISTING HVAC EQUIPMENT BEING DEMOLISHED AND MAKE SAFE. REMOVE ALL BRANCH CIRCUIT CONDUCTORS BACK TO SOURCE. AT SOURCE, TURN ASSOCIATED BREAKER OFF AND PROVIDE NEW PANEL BOARD DIRECTORY.



1 ELECTRICAL OVERALL ROOF PLAN - DEMOLITION
1/16" = 1'-0"



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ELECTRICAL OVERALL ROOF PLAN - DEMOLITION

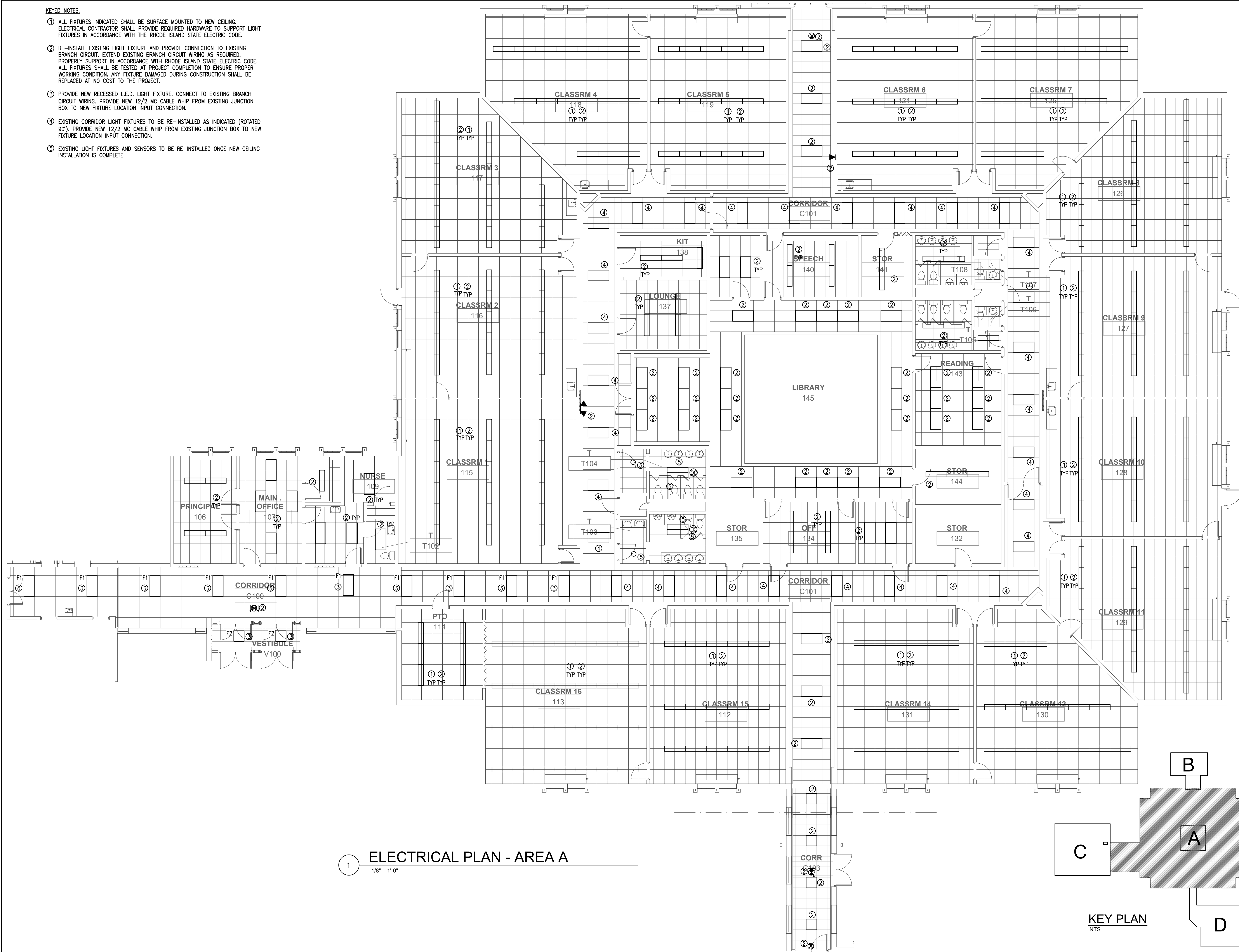
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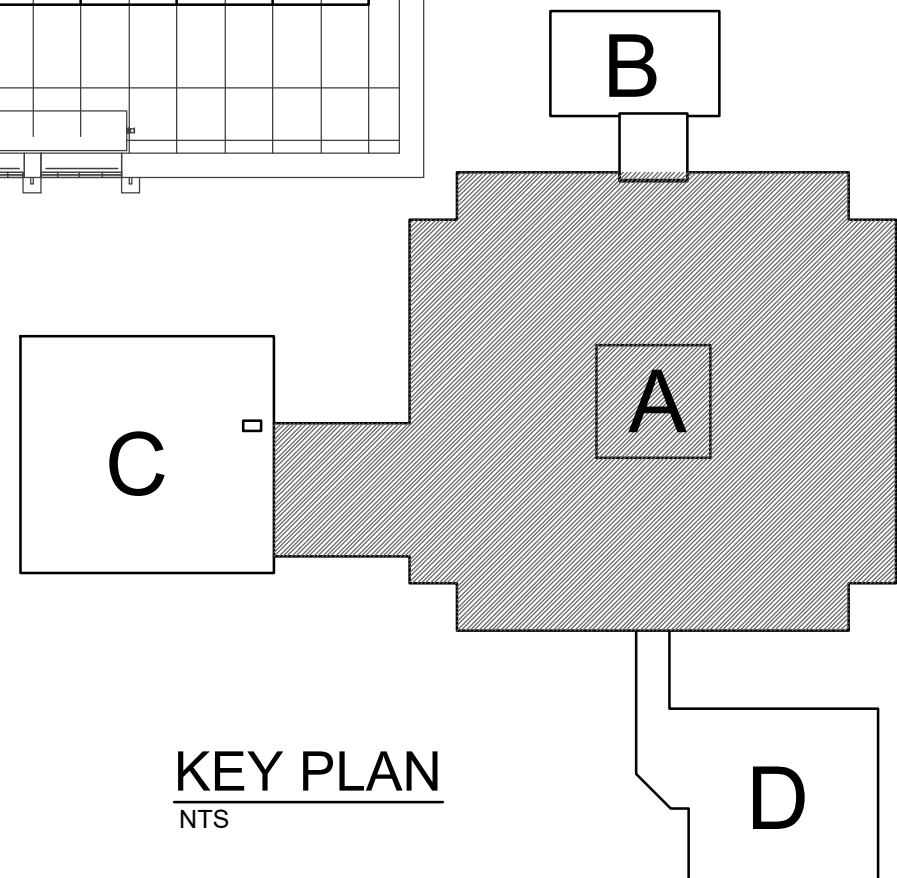
ED2.3

KEYED NOTES:

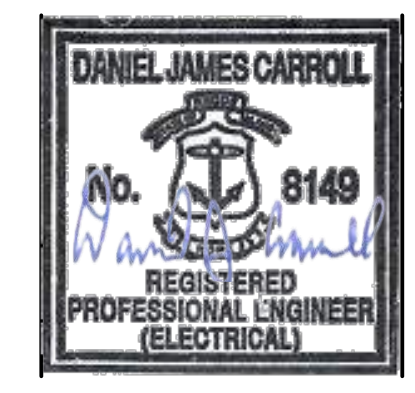
- ① ALL FIXTURES INDICATED SHALL BE SURFACE MOUNTED TO NEW CEILING. ELECTRICAL CONTRACTOR SHALL PROVIDE REQUIRED HARDWARE TO SUPPORT LIGHT FIXTURES IN ACCORDANCE WITH THE RHODE ISLAND STATE ELECTRIC CODE.
- ② RE-INSTALL EXISTING LIGHT FIXTURE AND PROVIDE CONNECTION TO EXISTING BRANCH CIRCUIT. EXTEND EXISTING BRANCH CIRCUIT WIRING AS REQUIRED. PROPERLY SUPPORT IN ACCORDANCE WITH RHODE ISLAND STATE ELECTRIC CODE. ALL FIXTURES SHALL BE TESTED AT PROJECT COMPLETION TO ENSURE PROPER WORKING CONDITION. ANY FIXTURE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT NO COST TO THE PROJECT.
- ③ PROVIDE NEW RECESSED L.E.D. LIGHT FIXTURE. CONNECT TO EXISTING BRANCH CIRCUIT WIRING. PROVIDE NEW 12/2 MC CABLE WHIP FROM EXISTING JUNCTION BOX TO NEW FIXTURE LOCATION INPUT CONNECTION.
- ④ EXISTING CORRIDOR LIGHT FIXTURES TO BE RE-INSTALLED AS INDICATED (ROTATED 90°). PROVIDE NEW 12/2 MC CABLE WHIP FROM EXISTING JUNCTION BOX TO NEW FIXTURE LOCATION INPUT CONNECTION.
- ⑤ EXISTING LIGHT FIXTURES AND SENSORS TO BE RE-INSTALLED ONCE NEW CEILING INSTALLATION IS COMPLETE.



① **ELECTRICAL PLAN - AREA A**
1/8" = 1'-0"



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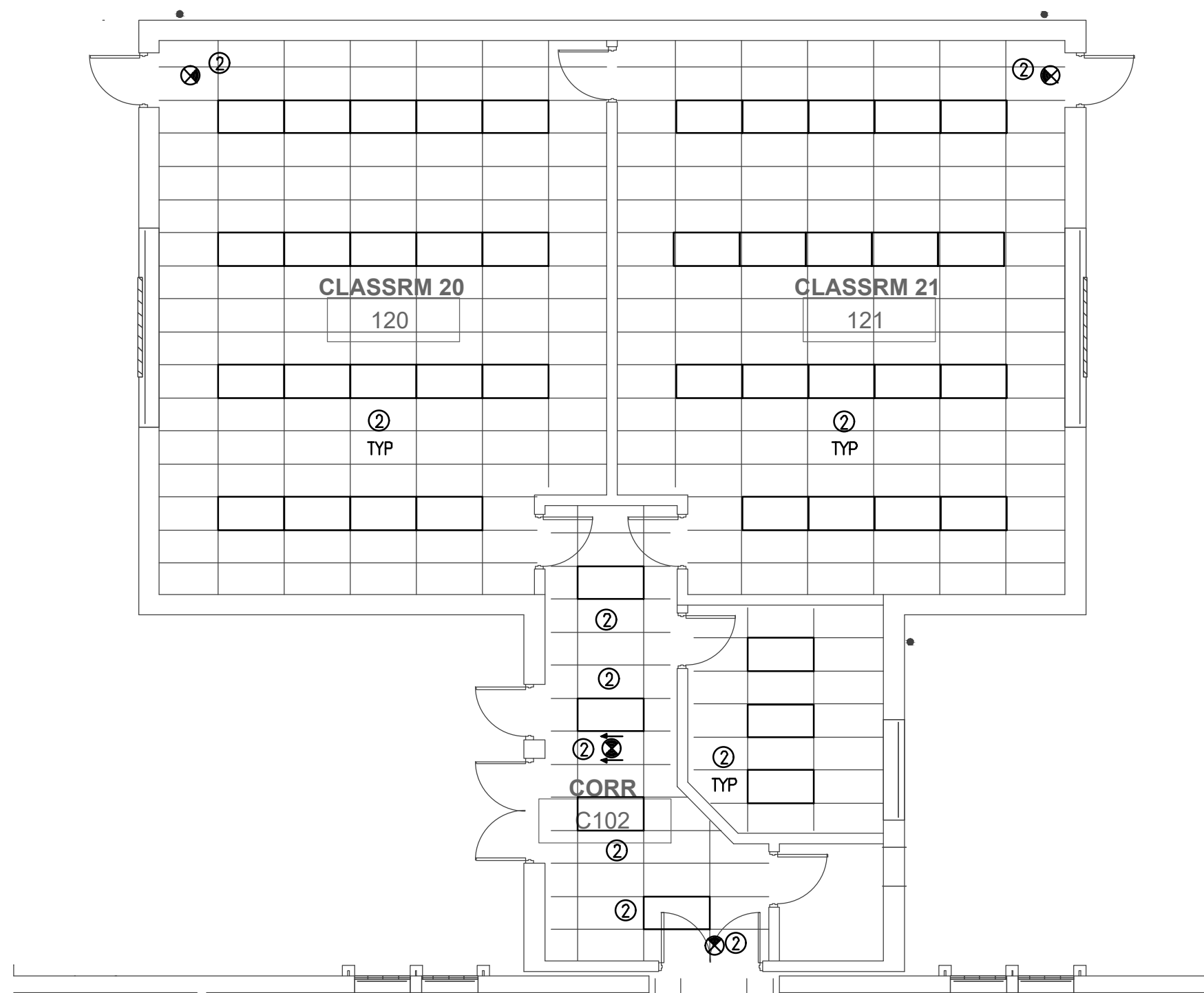
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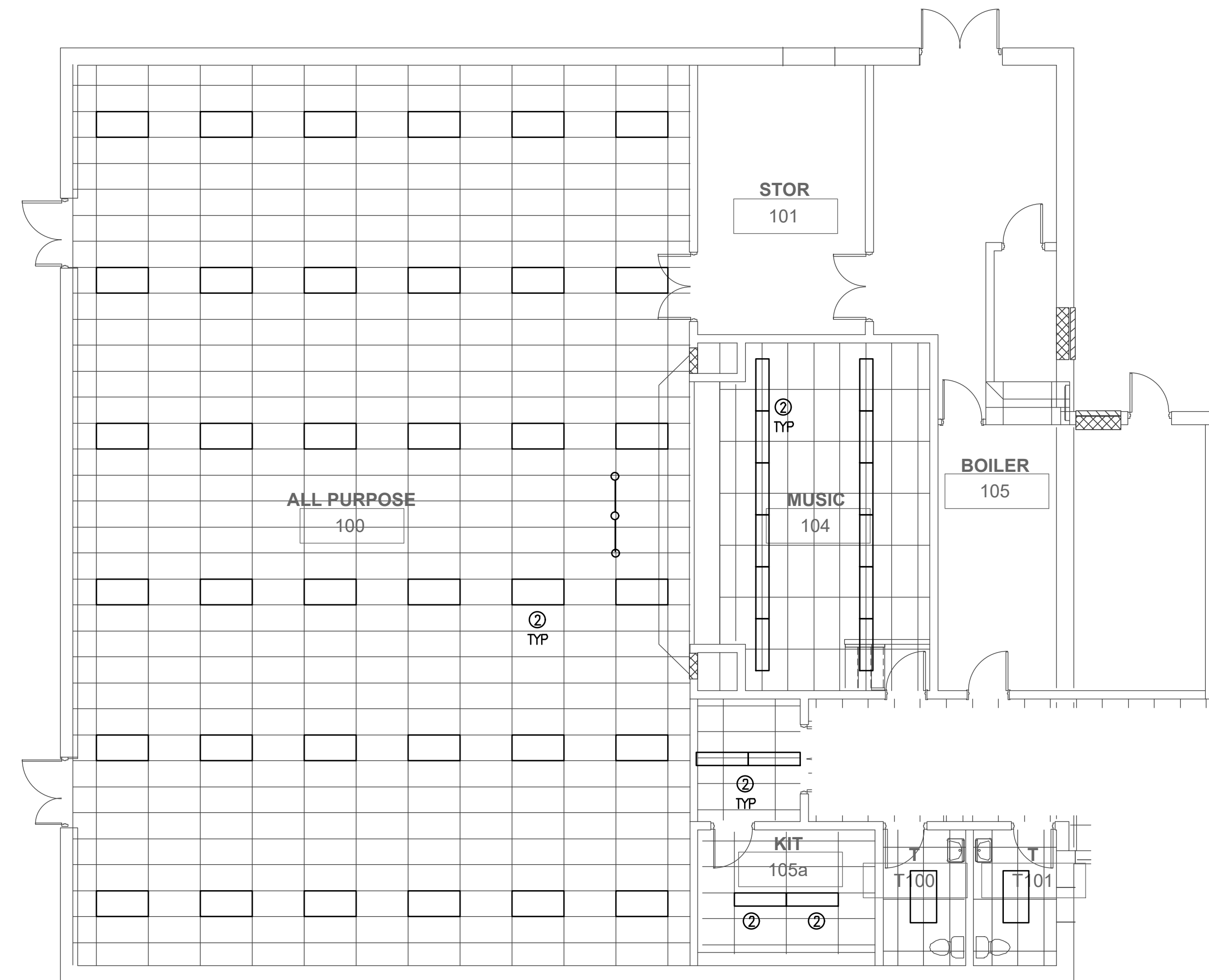
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ELECTRICAL PLAN - AREA A - LIGHTING

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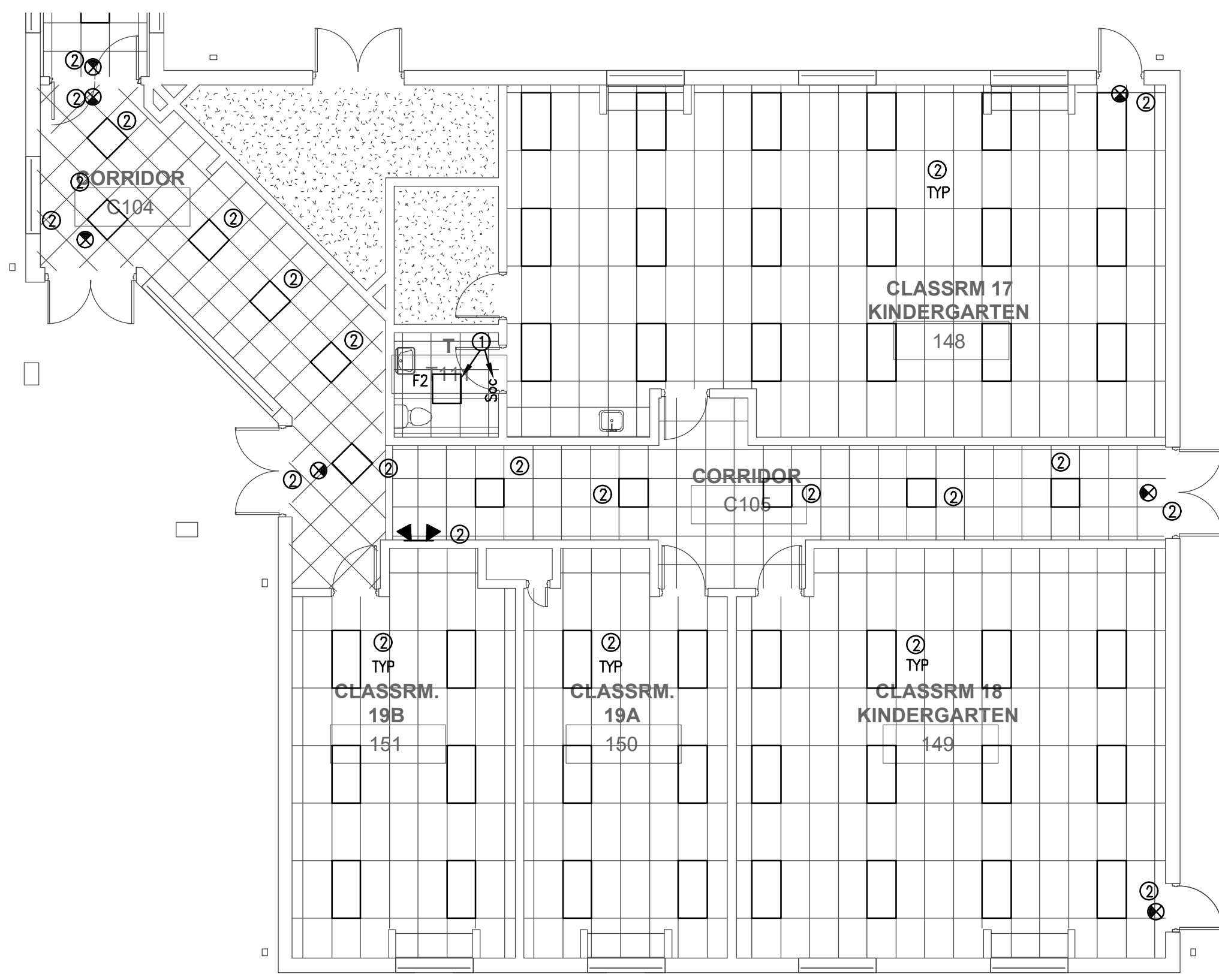
E1.1



1 ELECTRICAL PLAN - AREA B
1/8" = 1'-0"



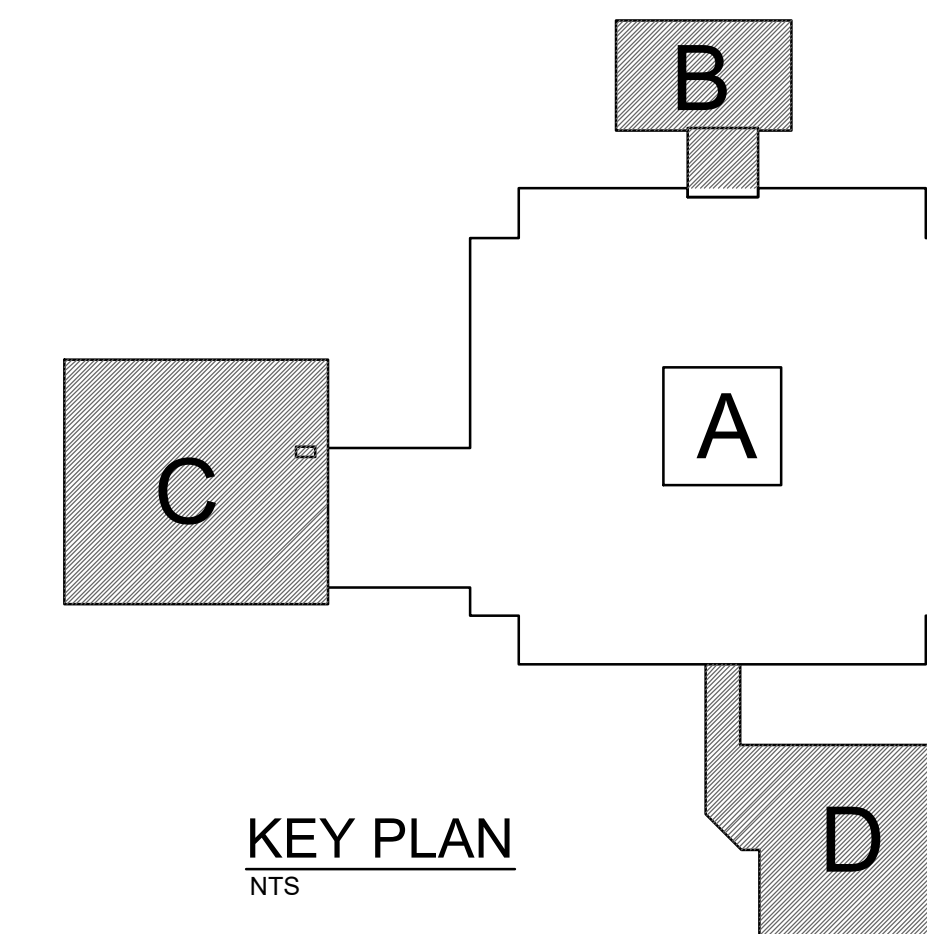
2 ELECTRICAL PLAN - AREA C
1/8" = 1'-0"



3 ELECTRICAL PLAN - AREA D
1/8" = 1'-0"

KEYED NOTES:

- ① PROVIDE NEW LIGHT FIXTURE AND OCCUPANCY SENSOR AS INDICATED. PROVIDE CONNECTION TO EXISTING BRANCH CIRCUIT AND PROVIDE NEW SWITCH LEG.
- ② RE-INSTALL EXISTING LIGHT FIXTURE AND PROVIDE CONNECTION TO EXISTING BRANCH CIRCUIT. EXTEND EXISTING BRANCH CIRCUIT WIRING AS REQUIRED. PROPERLY SUPPORT IN ACCORDANCE WITH RHODE ISLAND STATE ELECTRIC CODE. ALL FIXTURES SHALL BE TESTED AT PROJECT COMPLETION TO ENSURE PROPER WORKING CONDITION. ANY FIXTURE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT NO COST TO THE PROJECT.



KEY PLAN
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ELECTRICAL PLANS -
AREAS B, C & D -
LIGHTING

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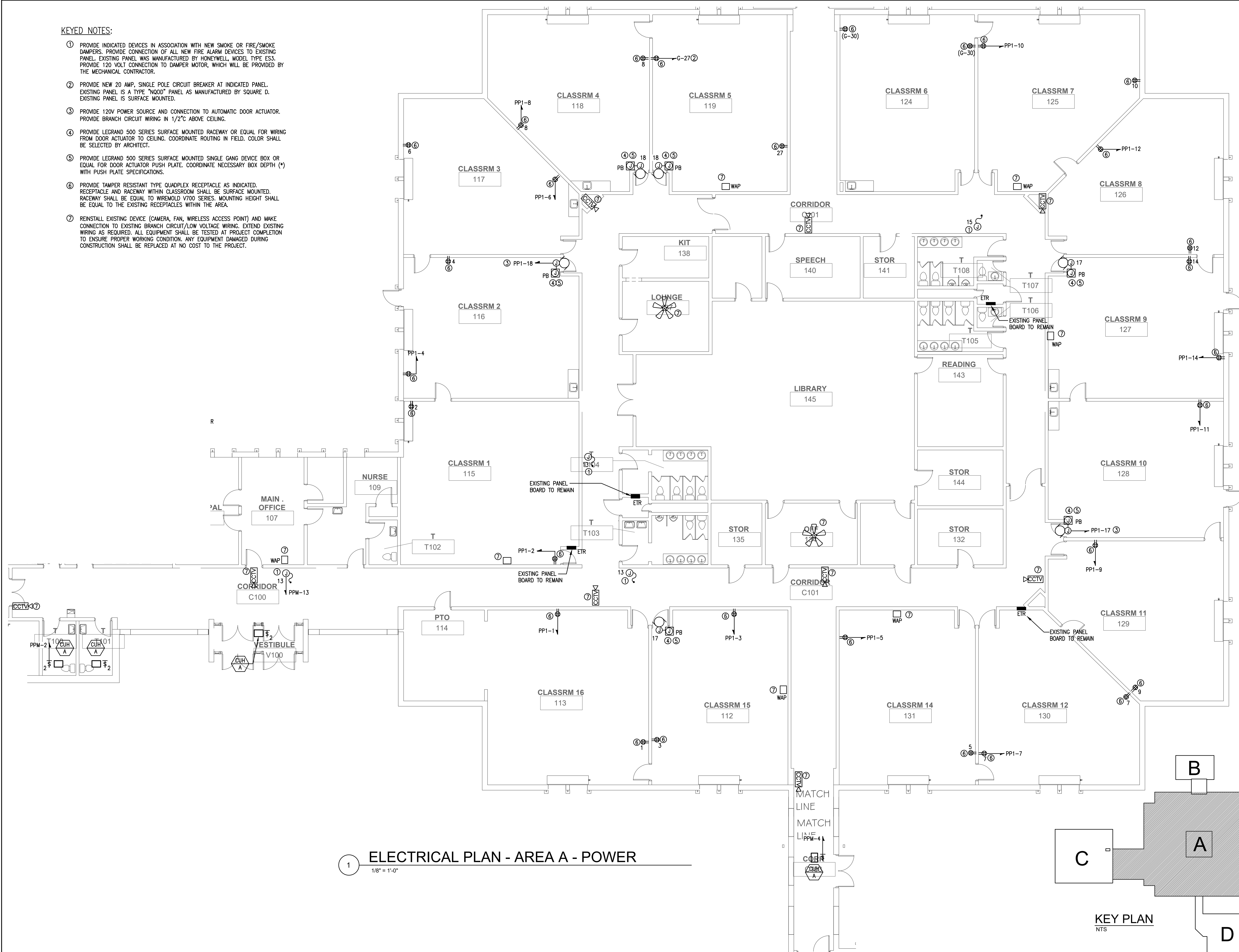
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E1.2

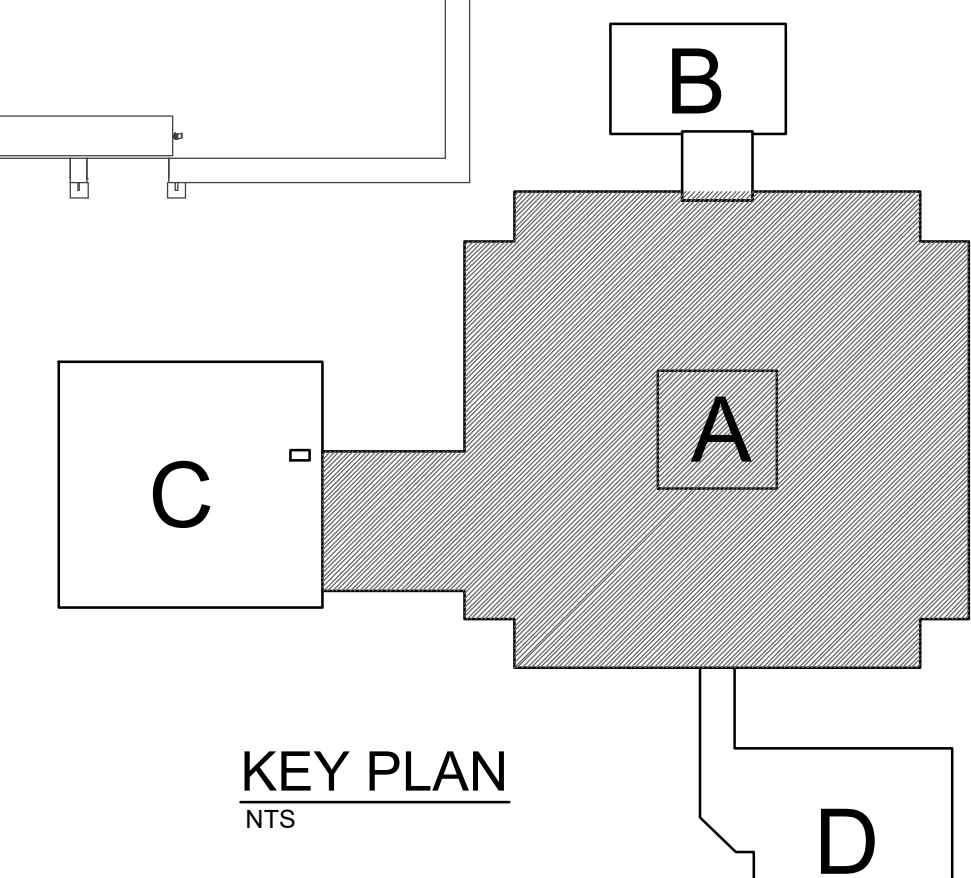
SHEET: 36 OF: 44

KEYED NOTES:

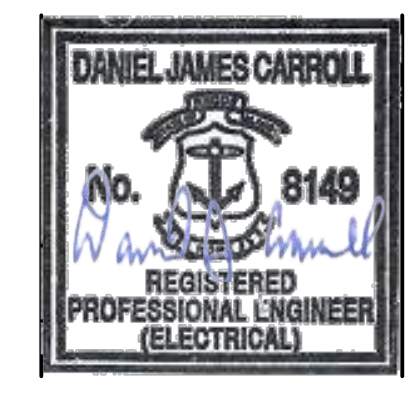
- ① PROVIDE INDICATED DEVICES IN ASSOCIATION WITH NEW SMOKE OR FIRE/SMOKE DAMPERS. PROVIDE CONNECTION OF ALL NEW FIRE ALARM DEVICES TO EXISTING PANEL. EXISTING PANEL WAS MANUFACTURED BY HONEYWELL, MODEL TYPE E53. PROVIDE 120 VOLT CONNECTION TO DAMPER MOTOR, WHICH WILL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
- ② PROVIDE NEW 20 AMP, SINGLE POLE CIRCUIT BREAKER AT INDICATED PANEL. EXISTING PANEL IS A TYPE "WOOD" PANEL AS MANUFACTURED BY SQUARE D. EXISTING PANEL IS SURFACE MOUNTED.
- ③ PROVIDE 120V POWER SOURCE AND CONNECTION TO AUTOMATIC DOOR ACTUATOR. PROVIDE BRANCH CIRCUIT WIRING IN 1/2" ABOVE CEILING.
- ④ PROVIDE LEGRAND 500 SERIES SURFACE MOUNTED RACEWAY OR EQUAL FOR WIRING FROM DOOR ACTUATOR TO CEILING. COORDINATE ROUTING IN FIELD. COLOR SHALL BE SELECTED BY ARCHITECT.
- ⑤ PROVIDE LEGRAND 500 SERIES SURFACE MOUNTED SINGLE GANG DEVICE BOX OR EQUAL FOR DOOR ACTUATOR PUSH PLATE. COORDINATE NECESSARY BOX DEPTH (*) WITH PUSH PLATE SPECIFICATIONS.
- ⑥ PROVIDE TAMPER RESISTANT TYPE QUADPLEX RECEPTACLE AS INDICATED. RECEPTACLE AND RACEWAY WITHIN CLASSROOM SHALL BE SURFACE MOUNTED. RACEWAY SHALL BE EQUAL TO WIREMOLD V700 SERIES. MOUNTING HEIGHT SHALL BE EQUAL TO THE EXISTING RECEPTACLES WITHIN THE AREA.
- ⑦ REINSTALL EXISTING DEVICE (CAMERA, FAN, WIRELESS ACCESS POINT) AND MAKE CONNECTION TO EXISTING BRANCH CIRCUIT/LOW VOLTAGE WIRING. EXTEND EXISTING WIRING AS REQUIRED. ALL EQUIPMENT SHALL BE TESTED AT PROJECT COMPLETION TO ENSURE PROPER WORKING CONDITION. ANY EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT NO COST TO THE PROJECT.



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



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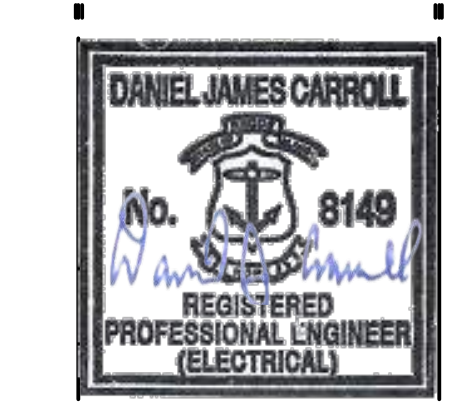
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E2.1



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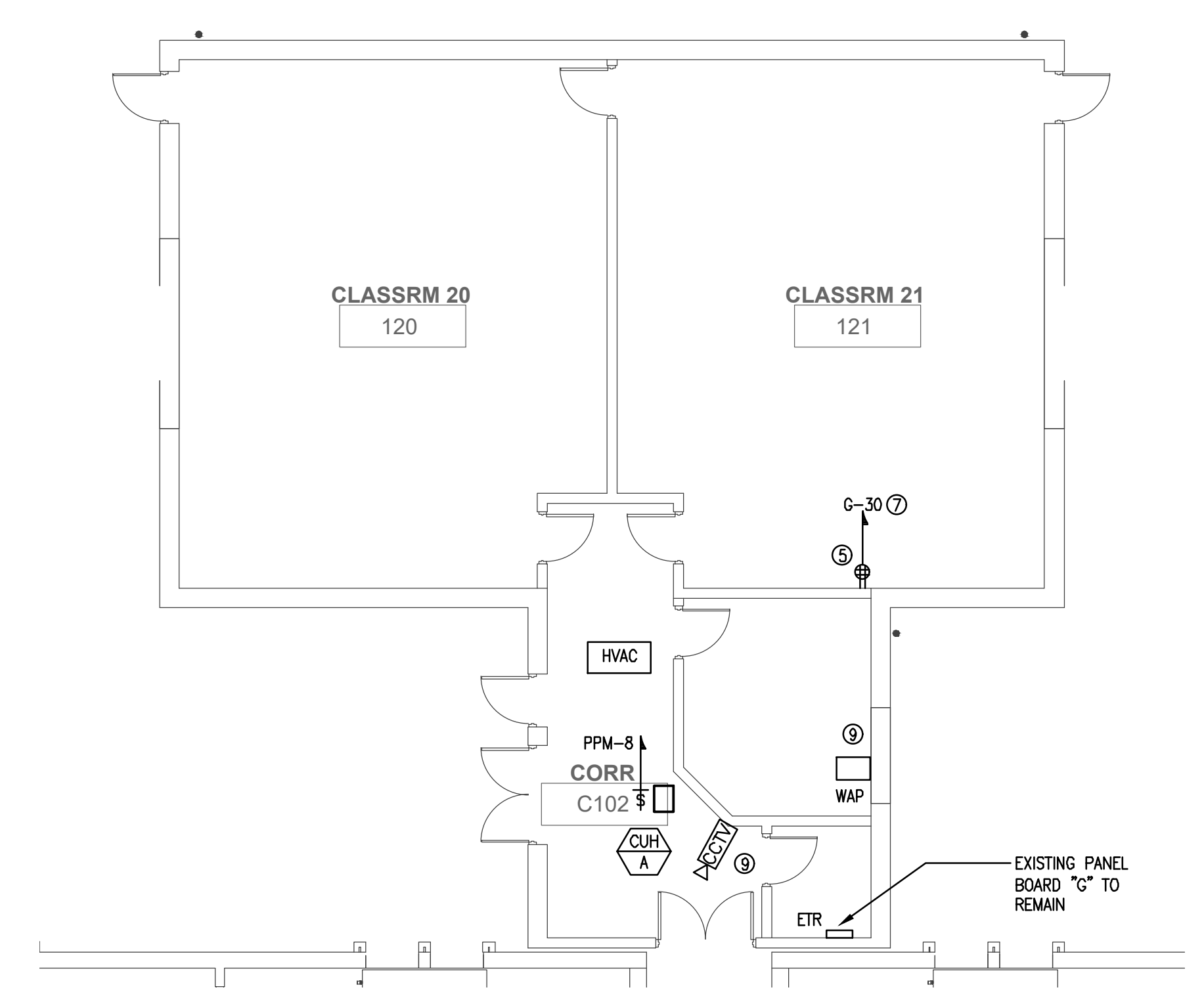
ELECTRICAL PLANS - AREAS B, C & D - POWER MECHANICAL

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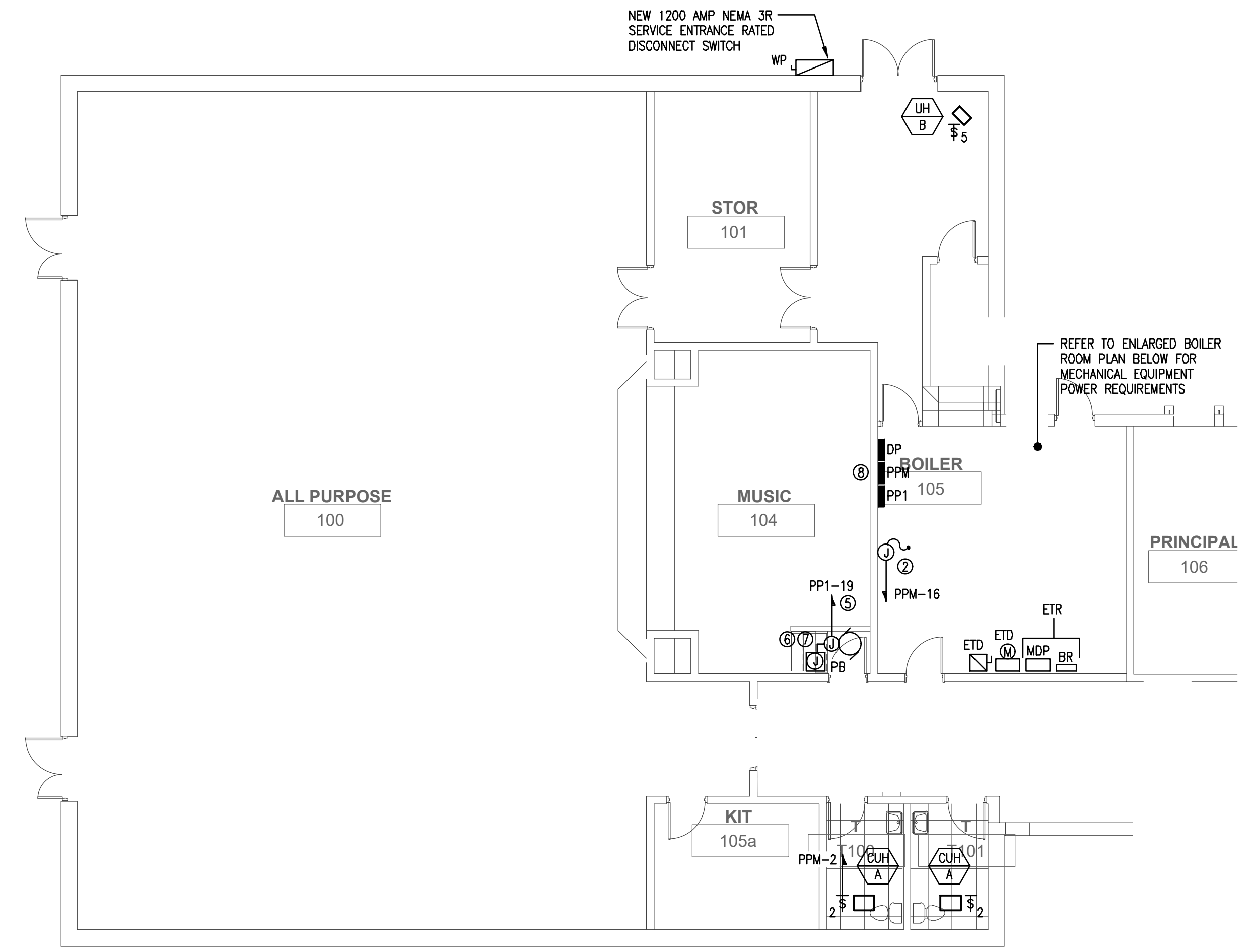
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E2.2

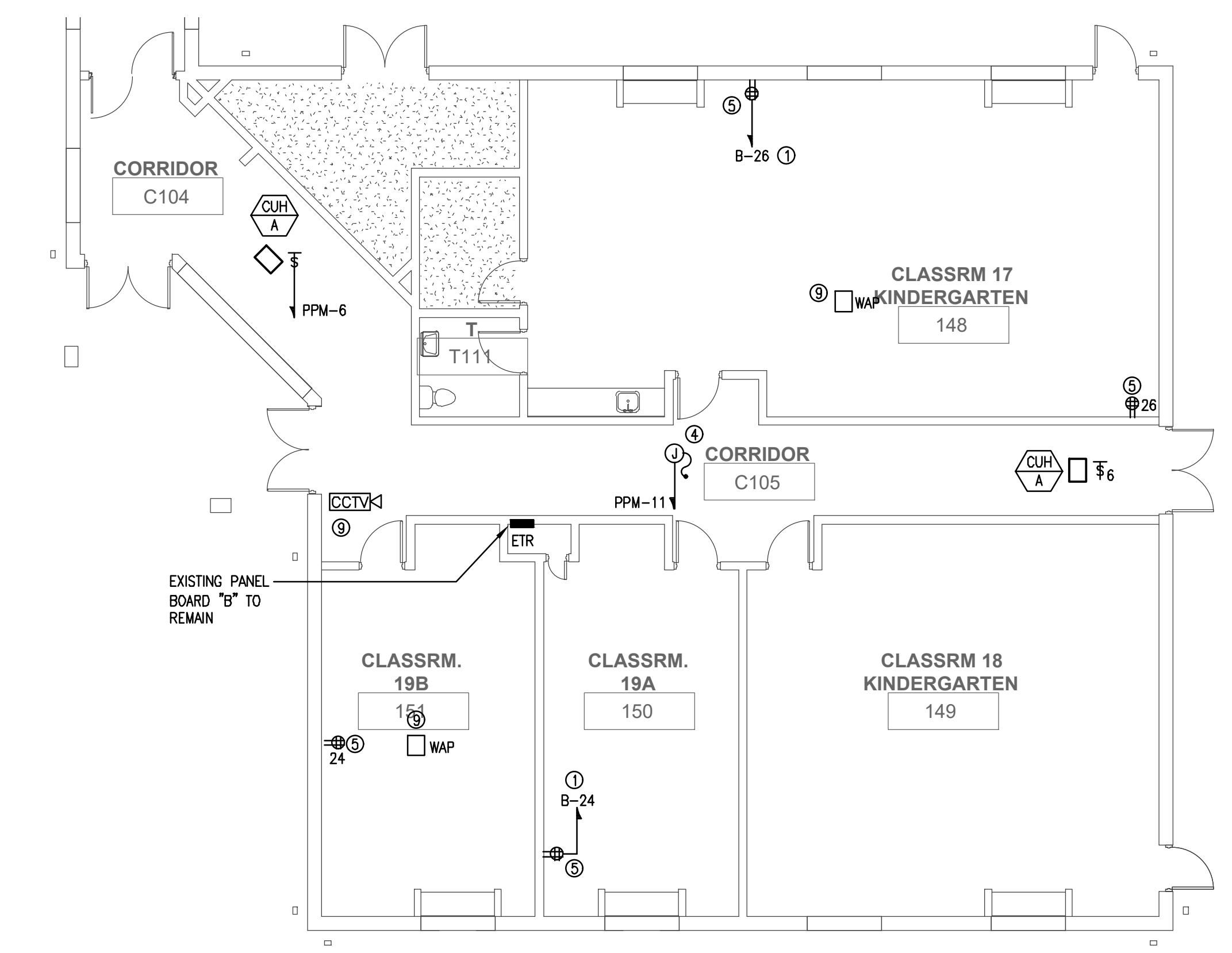
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 BER# 21228



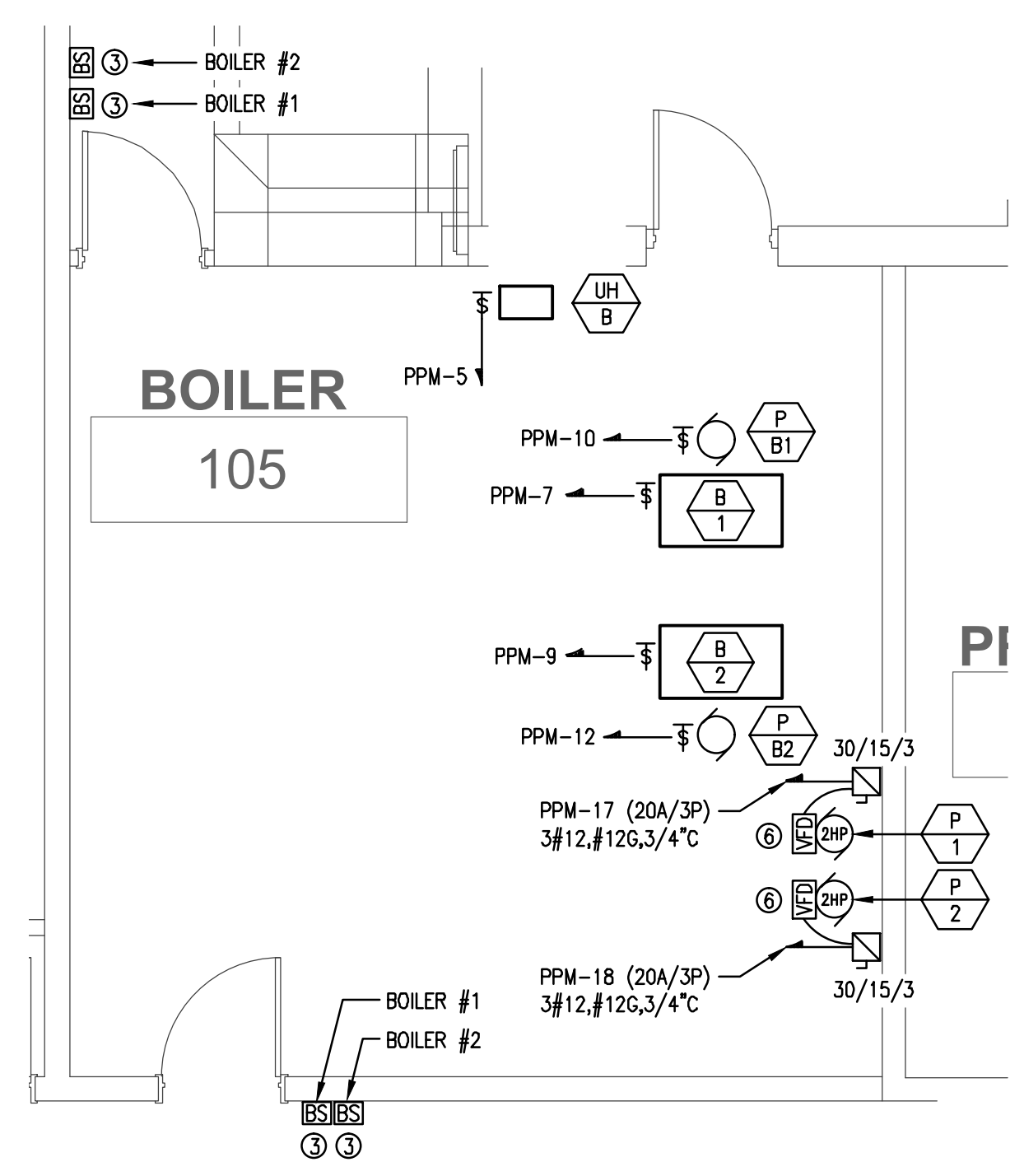
1 ELECTRICAL PLAN - AREA B - POWER MECHANICAL
 1/8" = 1'-0"



2 ELECTRICAL PLAN - AREA C - POWER MECHANICAL
 1/8" = 1'-0"

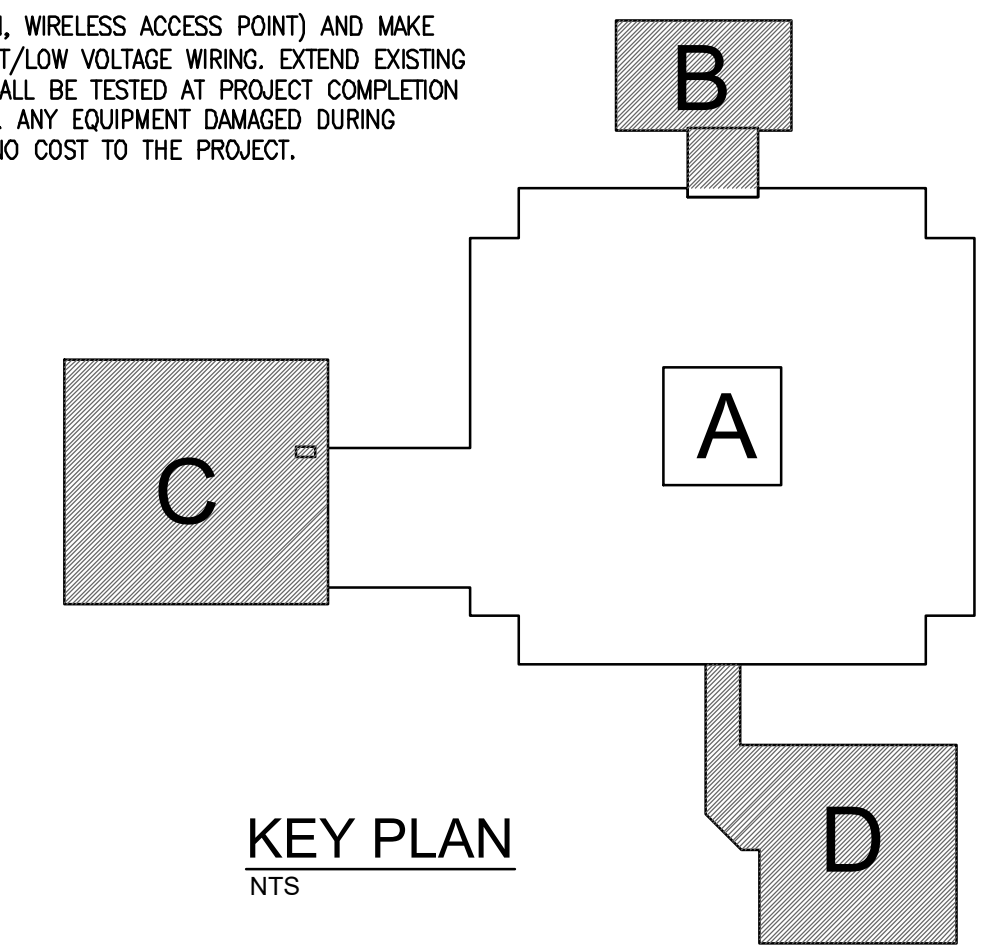


3 ELECTRICAL PLAN - AREA D - POWER MECHANICAL
 1/8" = 1'-0"



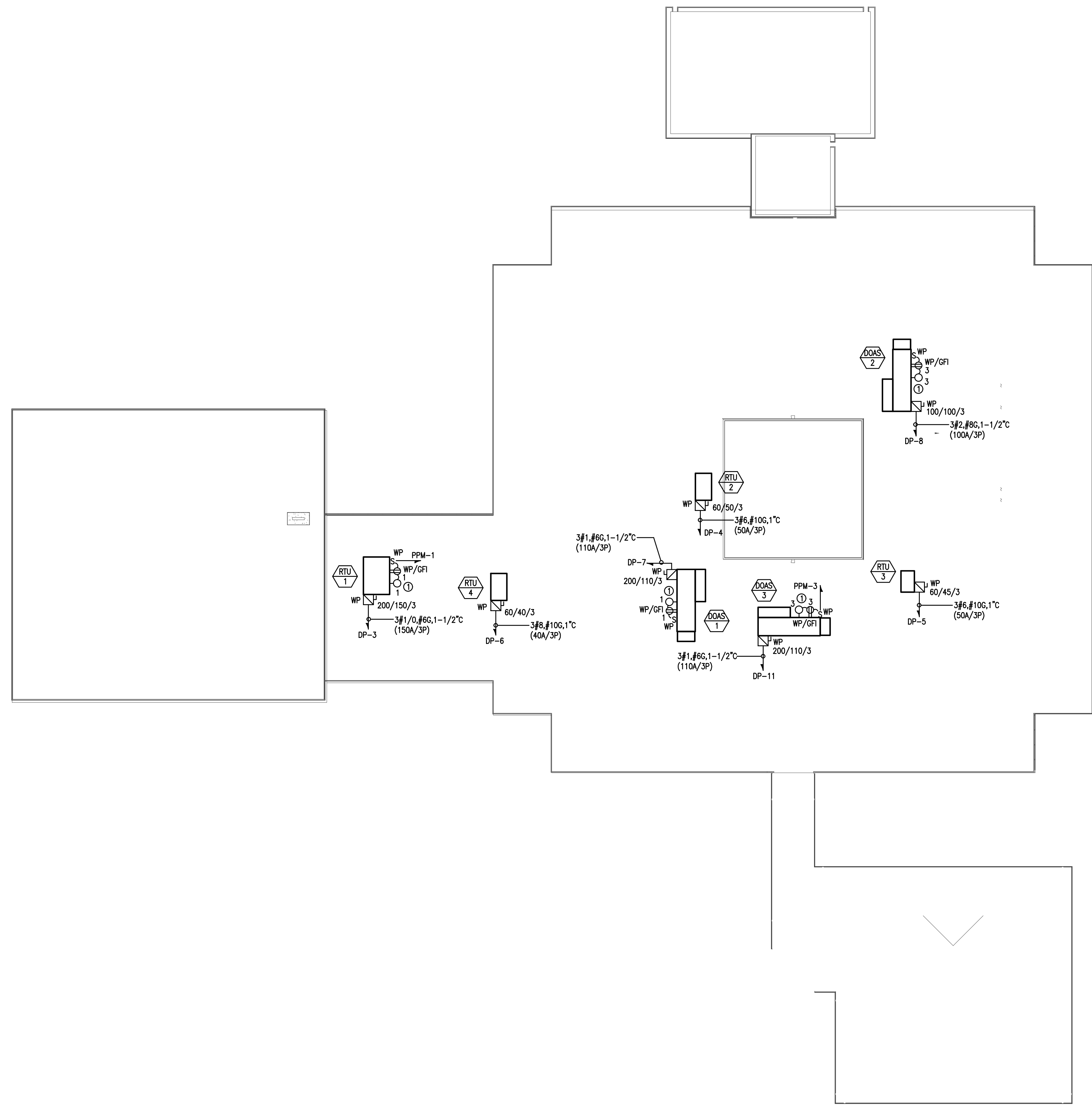
4 ELECTRICAL PLAN - BOILER ROOM - POWER MECHANICAL
 1/8" = 1'-0"

- KEYED NOTES:**
- ① PROVIDE NEW 20 AMP, 2-POLE CIRCUIT BREAKER AT EXISTING PANEL BOARD. EXISTING PANEL IS AN "A" SERIES PANEL BOARD AS MANUFACTURED BY G.E. EXISTING PANEL IS RECESSED MOUNTED IN CMU BLOCK WALL.
 - ② PROVIDE 120 VOLT CONNECTION TO MECHANICAL CONTROL PANEL. VERIFY EXACT LOCATION WITH MECHANICAL CONTRACTOR.
 - ③ PROVIDE EMERGENCY POWER OFF SWITCH WITH RED FACEPLATE FOR BOILER. LOCATE AT 72" AFF.
 - ④ PROVIDE INDICATED DEVICES IN ASSOCIATION WITH NEW SMOKE OR FIRE/SMOKE DAMPERS. PROVIDE CONNECTION OF ALL NEW FIRE ALARM DEVICES TO EXISTING PANEL. EXISTING PANEL WAS MANUFACTURED BY HONEYWELL, MODEL TYPE ESS. PROVIDE 120 VOLT CONNECTION TO DAMPER MOTOR, WHICH WILL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
 - ⑤ PROVIDE TAMPER RESISTANT TYPE QUADPLEX RECEPTACLE AS INDICATED. RECEPTACLE AND RACEWAY WITHIN CLASSROOM SHALL BE SURFACE MOUNTED. RACEWAY SHALL BE EQUAL TO WIREMOLD V700 SERIES. MOUNTING HEIGHT SHALL BE EQUAL TO THE EXISTING RECEPTACLES WITHIN THE AREA.
 - ⑥ VFD FURNISHED WITH EQUIPMENT BY MECHANICAL CONTRACTOR, WIRED BY E.C. COORDINATE EXACT LOCATION IN FIELD.
 - ⑦ PROVIDE NEW 20 AMP, SINGLE POLE CIRCUIT BREAKER AT INDICATED PANEL. EXISTING PANEL IS A TYPE "NOOD" PANEL AS MANUFACTURED BY SQUARE D. EXISTING PANEL IS SURFACE MOUNTED.
 - ⑧ COORDINATE FINAL LOCATION OF ALL ELECTRICAL EQUIPMENT WITH MECHANICAL CONTRACTOR SO AS TO ENSURE NO EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION IS LOCATED ABOVE PANEL BOARDS.
 - ⑨ REINSTALL EXISTING DEVICE (CAMERA, FAN, WIRELESS ACCESS POINT) AND MAKE CONNECTION TO EXISTING BRANCH CIRCUIT/LOW VOLTAGE WIRING. EXTEND EXISTING WIRING AS REQUIRED. ALL EQUIPMENT SHALL BE TESTED AT PROJECT COMPLETION TO ENSURE PROPER WORKING CONDITION. ANY EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT NO COST TO THE PROJECT.

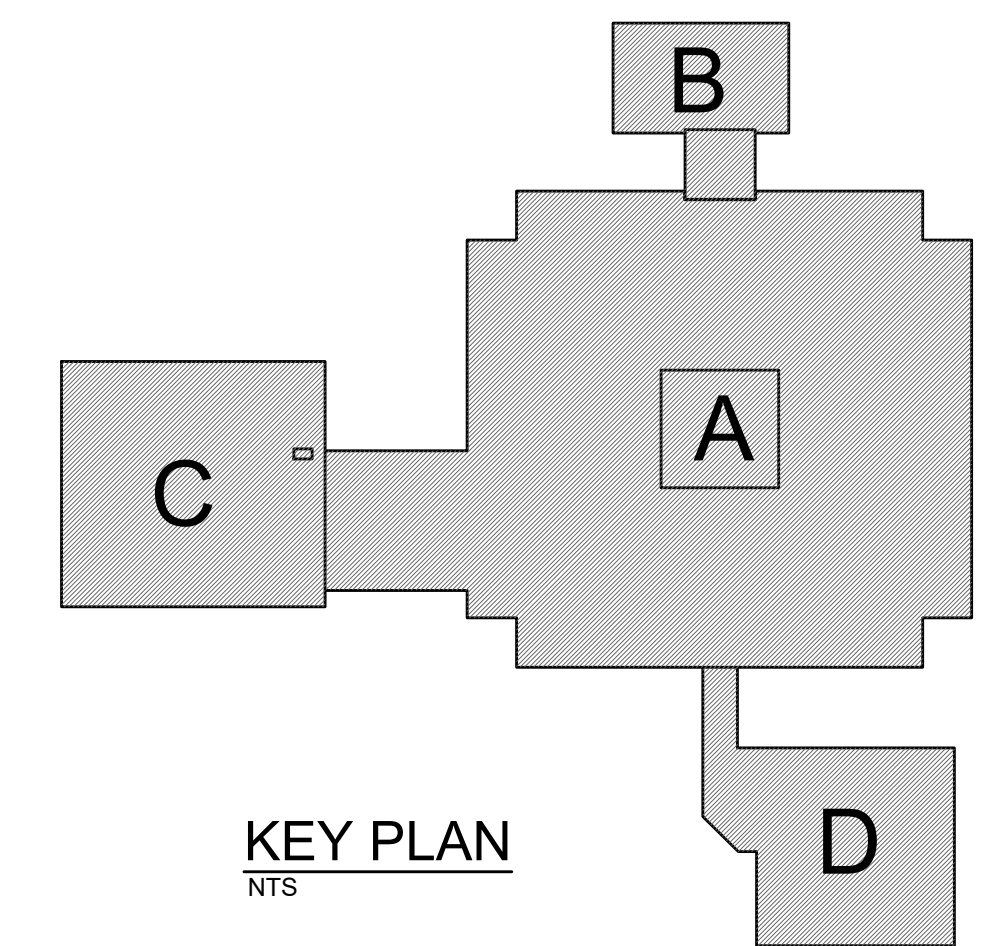


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KEYED NOTES:
 ① PROVIDE FIXTURE EQUAL TO LITONIA CAT.#OLVTWM.

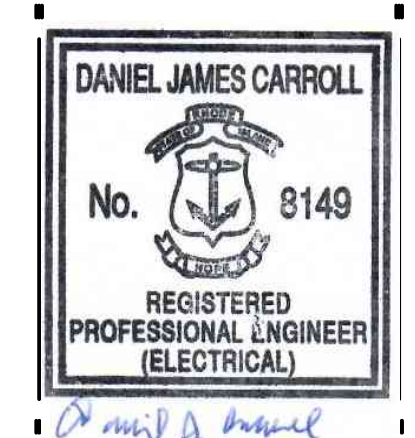


1 ELECTRICAL OVERALL ROOF PLAN
 1/16" = 1'-0"



KEY PLAN
 NTS

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at
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for
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Revision Number	Revision Date

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ELECTRICAL OVERALL ROOF PLAN

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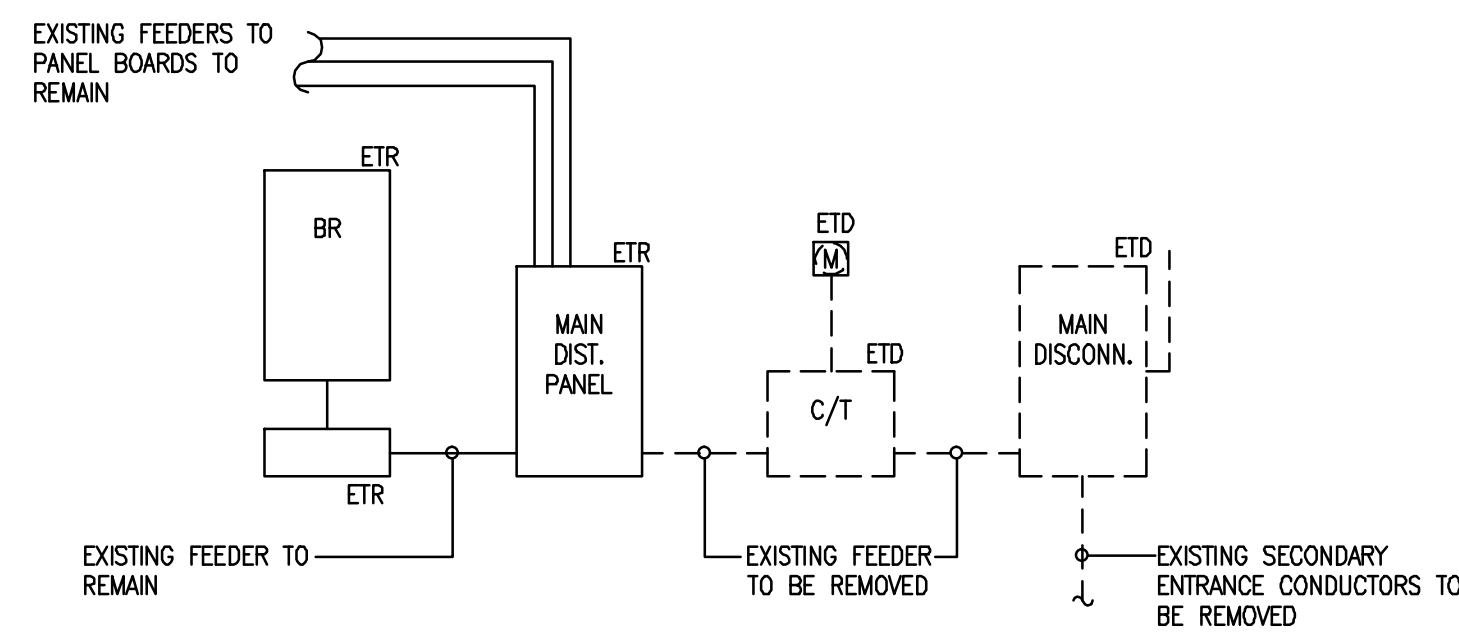
E2.3

SHEET: 39 OF: 44

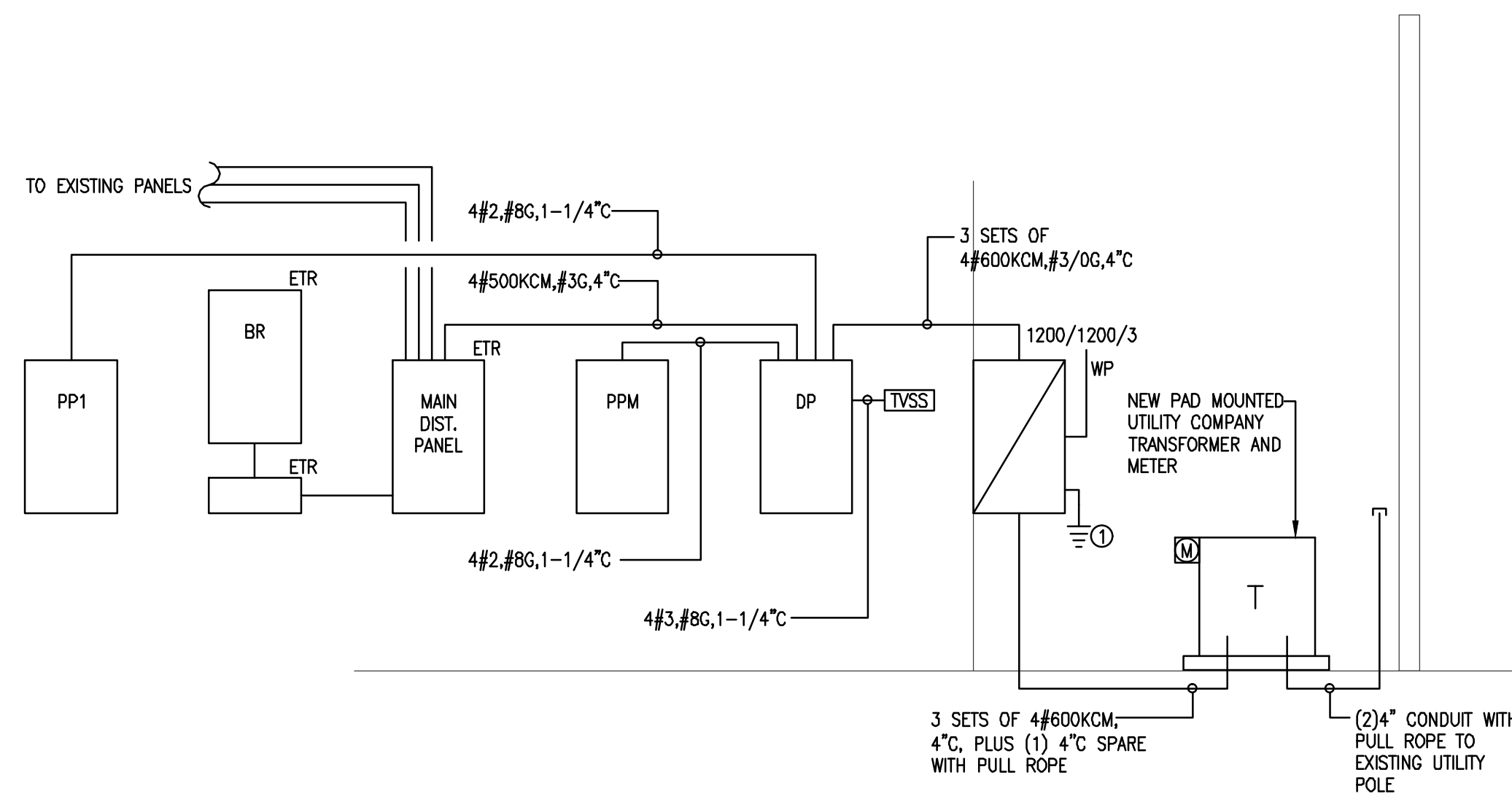
MAIN DISTRIBUTION PANEL "DP"					
VOLTAGE: 120/208V			PHASE: 3		
BUS RATING (CU): 1200 AMPS			WIRE: 4		
MAINS: 1200A MAIN CIRCUIT BREAKER			AIC: 100K		
CKT NO	OVERCURRENT DEVICE (AMP)			DESCRIPTION OF LOAD	REMARKS
	FRAME	TRIP	POLES		
1	125A	80A	3	TVSS UNIT	-
2	125A	100A	3	PANEL "PP1"	-
3	225A	150A	3	RTU-1	-
4	125A	50A	3	RTU-2	-
5	125A	50A	3	RTU-3	-
6	125A	40A	3	RTU-4	-
7	125A	110A	3	DOAS-1	-
8	125A	100A	3	DOAS-2	-
9	400A	400A	3	EXISTING PANEL "MDP"	-
10	125A	100A	3	PANEL "PPM"	-
11	125A	110A	3	DOAS-3	-
12	-	-	-	SPACE ONLY	PROVIDE BUSING AND PROVISIONS
13	125A	100A	3	SPARE	-
14	125A	100A	3	SPARE	-

PANEL DESIGNATION	VOLTS	PHASE	WIRES	MAINS		BRANCH DEVICES							ADDITIONAL BRANCH C.B.'S	REMARKS			
				MLO: MAIN LUGS ONLY	MCB: MAIN CKT. BKR.	BREAKER AMPS											
				BUS SIZE	OVERCURRENT DEVICE FRAME AMPS	TRIP AMPS	15	20	25	30	40	50			60	70	
PP1	120/208	3	4	100A	MLO	MLO	1	2	24						30	S	✓
PPM	120/208	3	4	100A	MLO	MLO	1	2	20						42	S	✓

* INCLUDES SPACES



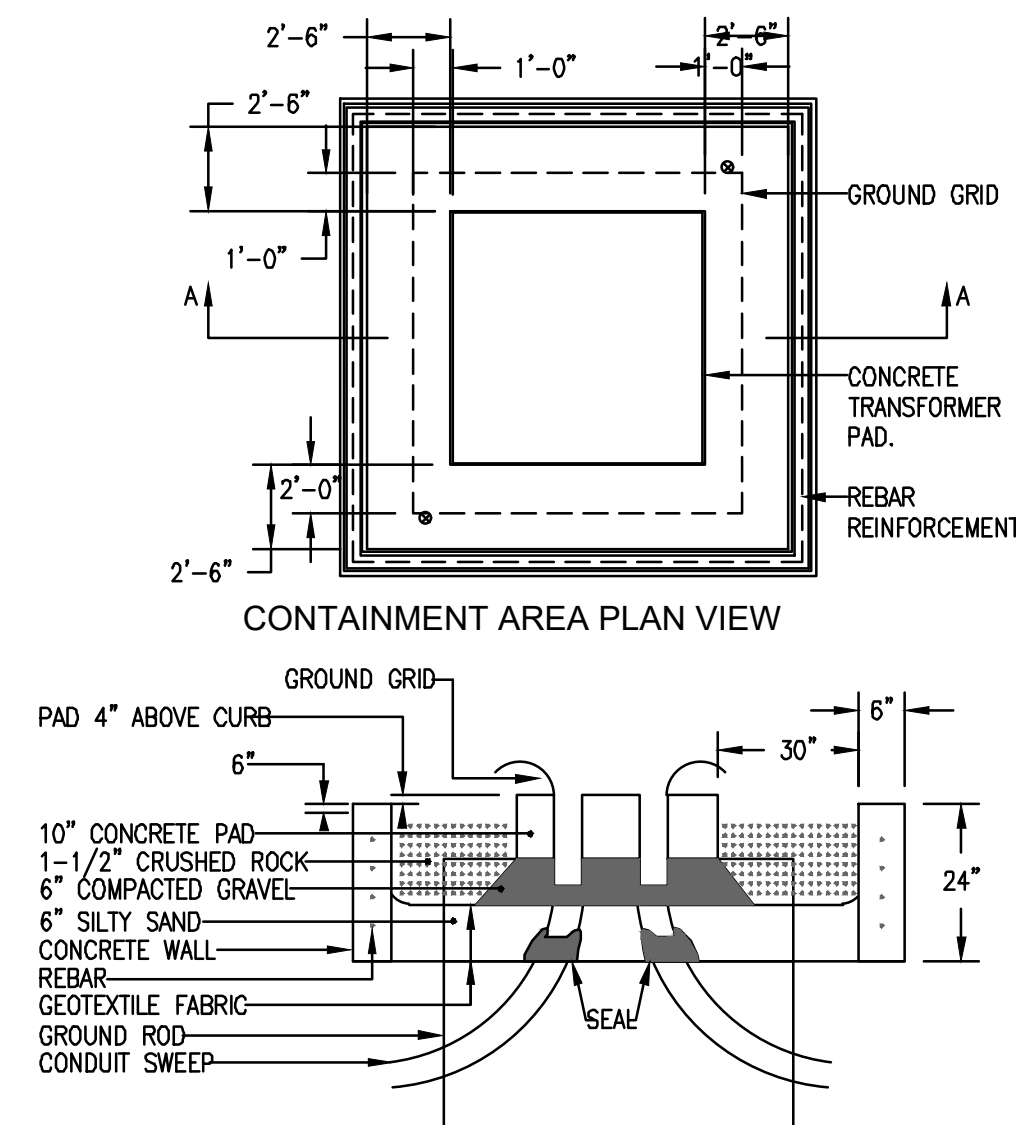
1 EXISTING ELECTRICAL RISER DIAGRAM NOT TO SCALE



2 NEW ELECTRICAL RISER DIAGRAM NOT TO SCALE

KEYED NOTES:

1. PROVIDE #3/0 AWG GROUND IN 1-1/4" CONDUIT TO BUILDING STEEL TO STREET SIDE OF WATER SERVICE AND TO 3/4" x 10'-0" COPPER-CLAD GROUND ROD PER NEC ART. 250.



TYPICAL CROSS SECTION OF CONTAINMENT PAD A-A

3 TRANSFORMER PAD OIL CONTAINMENT DETAIL NOT TO SCALE

TRANSFORMER PAD OIL CONTAINMENT DETAIL NOTES

1. BUILD OIL CURB, THIS SHOULD BE INSTALLED WITH CONCRETE IN ACCORDANCE WITH MIX #4 LOCAL UTILITY COMPANY PER CONCRETE SPECIFICATIONS. REINFORCEMENT TO BE #4, GRADE 60 ROD MINIMUM, 6 INCHES ON CENTER, BEND RODS AROUND CORNERS. CURB TO BE 24" DEEP WITH MINIMUM THICKNESS OF 6".
2. INSTALL GEOTEXTILE LINER FROM TOP OF WALLS AND AROUND BOTTOM OF CONTAINMENT AREA. AREA WHERE CONDUIT CROSSES OVERLAP LINER AROUND CONDUIT AND SEAL WITH EXPANDING FOAM.
3. INSTALL 6" OF SILTY SAND ON TOP OF LINER.
4. INSTALL SECOND LAYER OF GEOTEXTILE LINER AS NOTED IN STEP 2.
5. BUILD UP AREA FOR TRANSFORMER PAD WITH 6" OF COMPACTED GRAVEL AND LEVEL.
6. INSTALL GROUND GRID.
7. SET/BUILD TRANSFORMER PAD.
8. FILL IN CONDUIT OPENINGS WITH SILTY OR EXPANDING FOAM UP TO THE LAST TWO INCHES OF THE PAD.
9. FILL REST OF CONDUIT OPENING WITH CONCRETE GROUT OR EXPANDING FOAM.
10. FILL AREA BETWEEN SLAB AND CURB WITH 1-1/2 INCHES UNIFORMLY GRADED CRUSHED ROCK.
11. ALL CONCRETE WORK, EXCAVATION AND OIL CONTAINMENT LINER SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR.

GENO-TEXTILE LINER

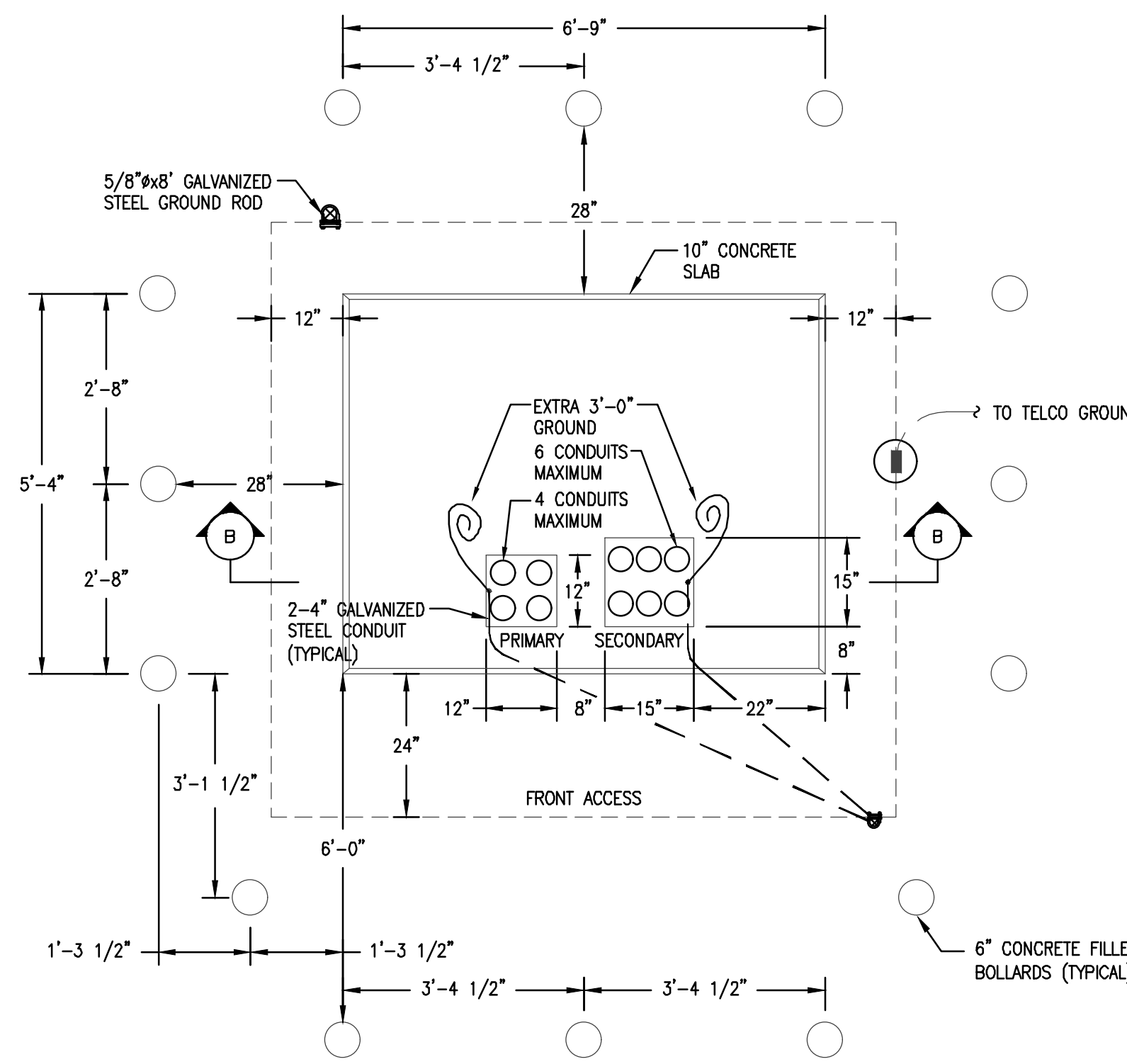
GENERIC NAME IS: 16oz POLYPROPYLENE GEOTEXTILE ALSO CALLED FILTER FABRIC WEIGHING 16oz/Square YARD.

BRAND NAME/SUPPLIERS ARE:

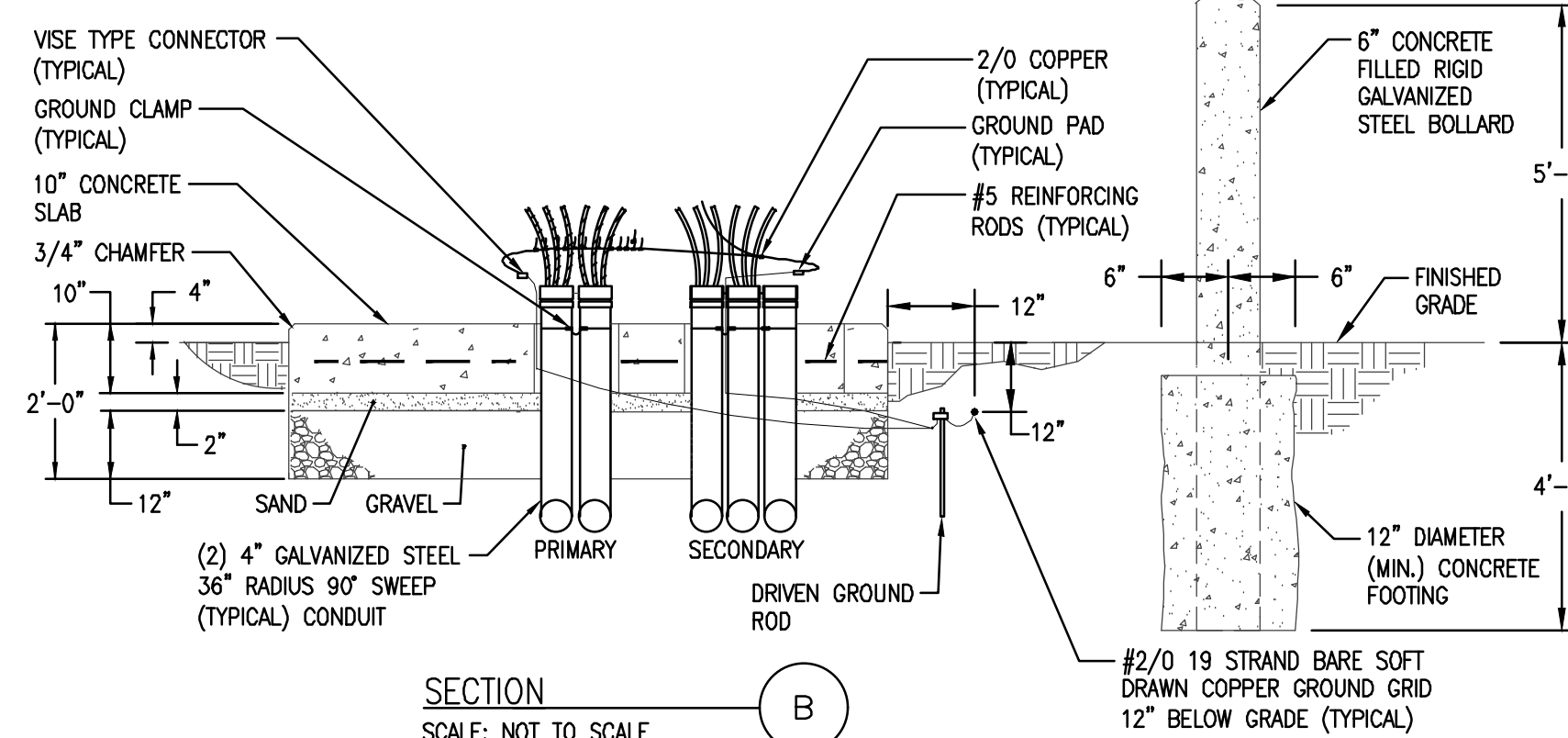
AME1680 AVAILABLE FROM AMERICAN ENGINEERING FABRICS (AEF), Inc. (EMPHASIZE POLYPROPYLENE NOT POLYESTER) NEW BEDFORD, MA @ 1-617-865-0007 / 1-800-770-2866 OR FROM VELLANO BROS. LANCASTER NY 1-716-684-7222. SEVERAL OTHER LOCATIONS IN NY, MA, RI AND NH, GO TO WWW.VELLANO.COM

SYNTHETIC INDUSTRIES ST 160 AVAILABLE FROM SPARTAN MILLS Inc's, SPARTANBURG, NC 1-803-576-2353

CARTHAGE MILLS FX-160HS / US CONSTRUCTION FABRICS LLC 90 RANGE Rd, WINDHAM NH 03087 1-603-898-0532

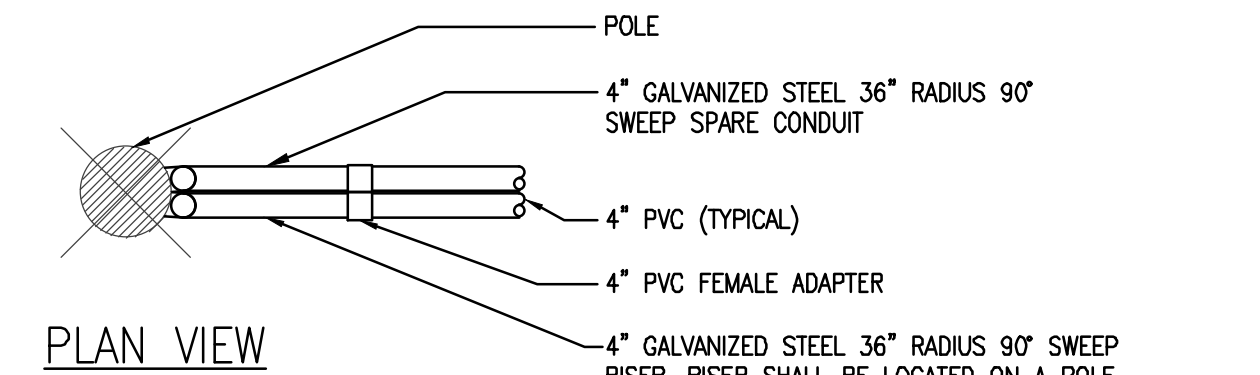


PLAN VIEW DETAIL SCALE: NOT TO SCALE

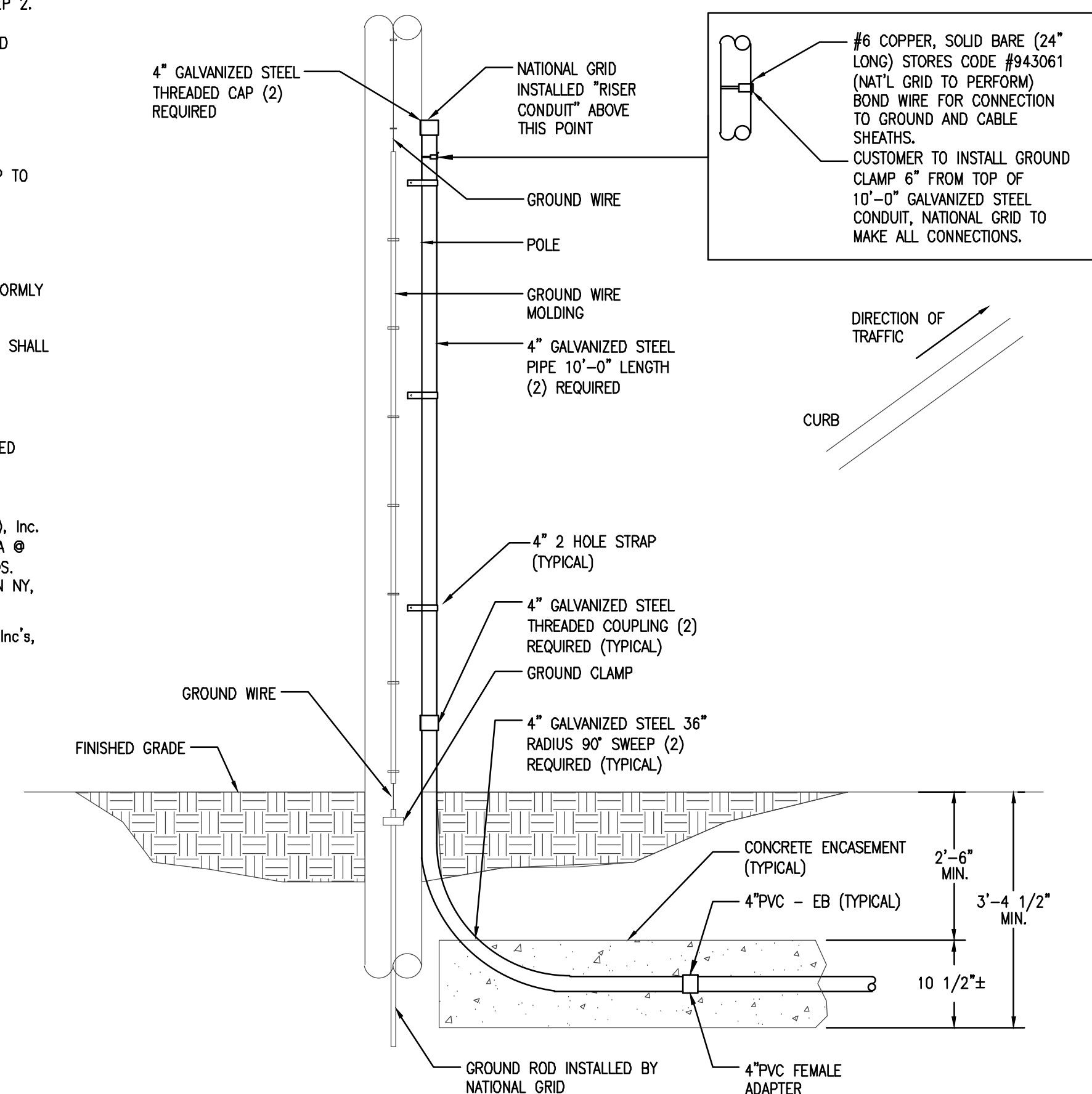


SECTION SCALE: NOT TO SCALE

STANDARD THREE PHASE TRANSFORMER 75-500KVA MAXIMUM PAD DETAIL



PLAN VIEW



ELEVATION VIEW

RISER POLE DETAIL SCALE: NOT TO SCALE

TRANSFORMER PAD NOTES:

1. INSTALL CONDUITS AS SHOWN IN DETAILS "A" AND "B" ON DRAWING #ES1.0 BEFORE SLAB IS POURED. USE 36" RADIUS BENDS, WITH COUPLINGS, NIPPLES AND BUSHINGS AS REQUIRED. BENDS FOR PRIMARY CABLES SHALL BE GALVANIZED STEEL. TERMINATIONS AND BUSHINGS SHALL BE INSTALLED AFTER THE TRANSFORMER IS PLACED, AND BEFORE THE CABLES ARE PULLED.
2. INSTALL #1/0 7 STRAND BARE SOFT DRAWN COPPER WIRE LOOP 21" BELOW GRADE. BOND TO ALL EXPOSED METALLIC CONDUIT AND LEAVE 3'-0" OF WIRE ABOVE PAD FOR GROUNDING TRANSFORMER AT TWO OPPOSITE POINTS IN THE CABLE CONDUIT OPENINGS. INSTALL TWO 8" GALVANIZED STEEL (3/4") GROUND RODS AND APPROVED CONNECTORS BELOW GROUND. LEAVE GROUND GRID EXPOSED UNTIL INSPECTED BY THE UTILITY COMPANY. CONNECTIONS TO GROUND GRID TO BE MADE AS SHOWN IN DETAILS "C", "D" AND "E" ON DRAWING #. EXCEPT THAT EXOTHERMIC WELDING ("CALDWELD") SHALL BE AN ACCEPTABLE ALTERNATE TO COMPRESSION BOLTED CONNECTIONS.
3. CRUSHED ROCK, GRAVEL AND SAND SHALL BE PLACED AS SHOWN IN DETAIL "B" ON DRAWING #. THE GRAVEL, BEING THOROUGHLY COMPACTED, AND THE SAND THOROUGHLY WETTED, JUST BEFORE PLACING THE CONCRETE.
4. INSTALL CONCRETE SLAB IN ACCORDANCE WITH MIX #5- (N.E.E.S. STD.GS 0211) UNLESS OTHERWISE SPECIFIED. ALL EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
5. REINFORCING RODS TO BE #4 GRADE 60 AND SHALL CONFORM TO ASTM STANDARD A-615 OF LATEST DATE. REINFORCING RODS TO BE LOCATED IN CENTER OF THE SLAB, WITH A MINIMUM OF 2" CLEARANCE FROM FACE OF CONCRETE.
6. UPON COMPLETION OF THE SLAB, AND THE INSTALLATION OF CONDUIT, FILL THE OPEN AREA AROUND THE CONDUITS WITH CONCRETE AND GROUT AROUND THE CONDUIT TO SEAL THIS AREA.
7. TRANSFORMER TO BE INSTALLED BY THE CUSTOMER (SEE DETAIL "A").
8. INSTALL CONCRETE OIL CURB IN ACCORDANCE WITH MIX #4 - GS 0211. REINFORCE WITH (4) 1/2" RODS, SIX INCHES ON CENTER AS SHOWN. BEND RODS AROUND CORNERS. FILL AREA BETWEEN SLAB AND CURB WITH A 1-1/2" UNIFORMLY GRADED CRUSHED ROCK AND LINE WITH 2 LAYERS OF GEOTEXTILE LINER AS SHOWN. GEOTEXTILE LINERS TO BE SEPARATED BY A 6" LAYER OF WELL COMPACTED, SILTY SAND AND GRAVEL MIX. GEOTEXTILE LINE SHALL BE 16 OZ. POLYPROPYLENE GEOTEXTILE - ALL SEAMS TO OVERLAP 12" MINIMUM.

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HVAC UPGRADES

at

Hoxsie Elementary School 55 Glenwood Drive, Warwick, RI 02889

for Warwick School Department

Revision Schedule

Revision Number	Revision Date

SHEET TITLE

ELECTRICAL SCHEDULES, RISER DIAGRAMS AND DETAILS

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DRAWN BY: RJ JOB NUMBER: 25040

CHECKED BY: RF DATE: 02-09-2026

E3.0

SHEET: 40 OF: 44

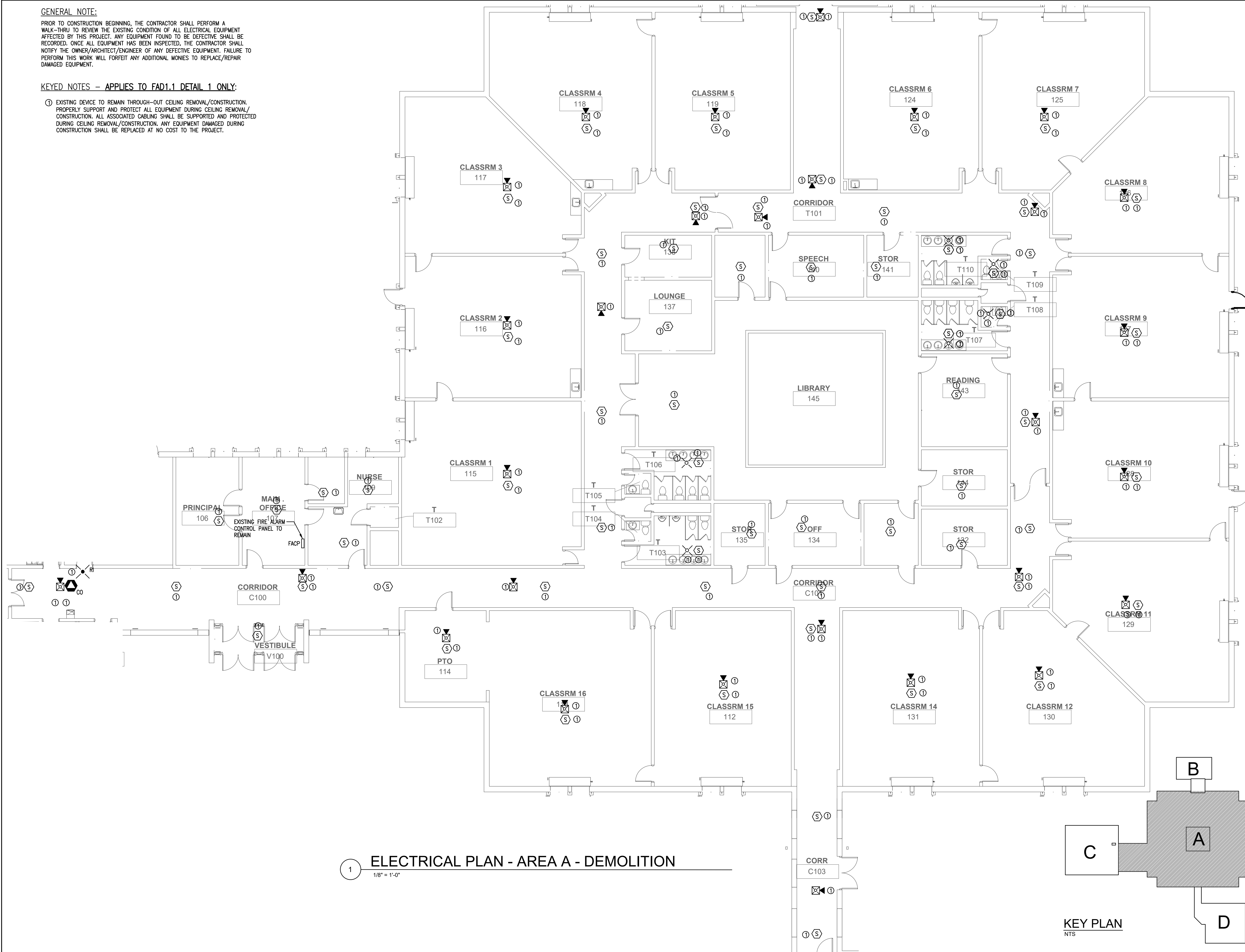
BER# 21228

GENERAL NOTE:

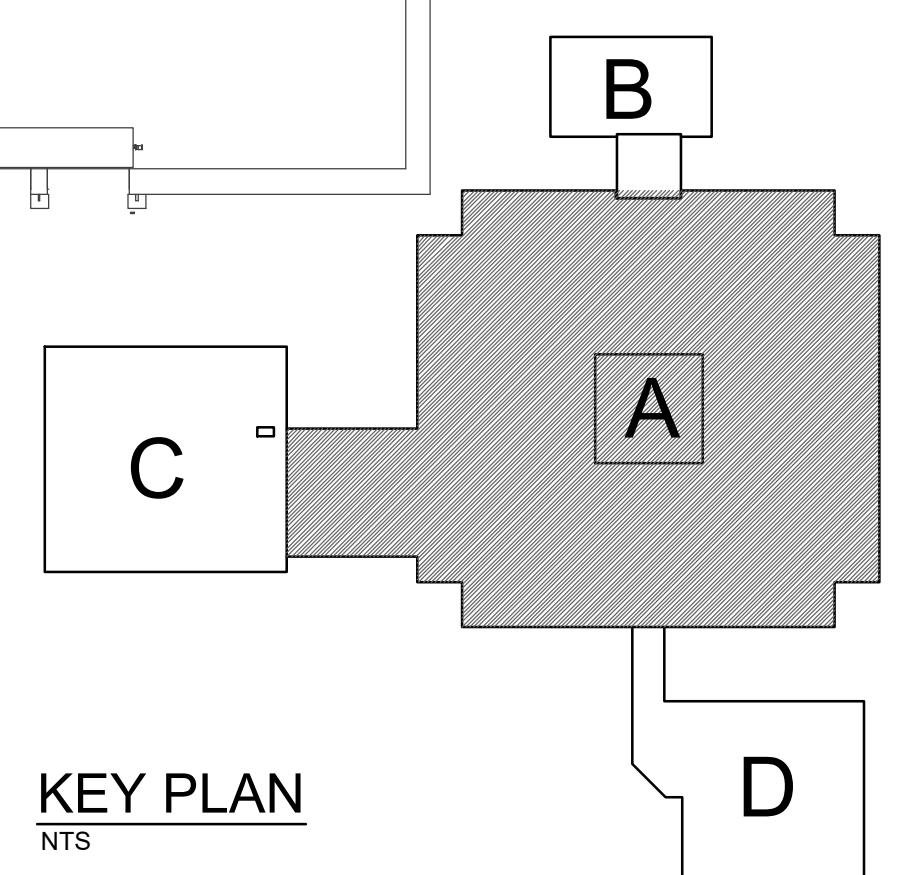
PRIOR TO CONSTRUCTION BEGINNING, THE CONTRACTOR SHALL PERFORM A WALK-THRU TO REVIEW THE EXISTING CONDITION OF ALL ELECTRICAL EQUIPMENT AFFECTED BY THIS PROJECT. ANY EQUIPMENT FOUND TO BE DEFECTIVE SHALL BE RECORDED. ONCE ALL EQUIPMENT HAS BEEN INSPECTED, THE CONTRACTOR SHALL NOTIFY THE OWNER/ARCHITECT/ENGINEER OF ANY DEFECTIVE EQUIPMENT. FAILURE TO PERFORM THIS WORK WILL FORFEIT ANY ADDITIONAL MONIES TO REPLACE/REPAIR DAMAGED EQUIPMENT.

KEYED NOTES -- APPLIES TO FAD1.1 DETAIL 1 ONLY:

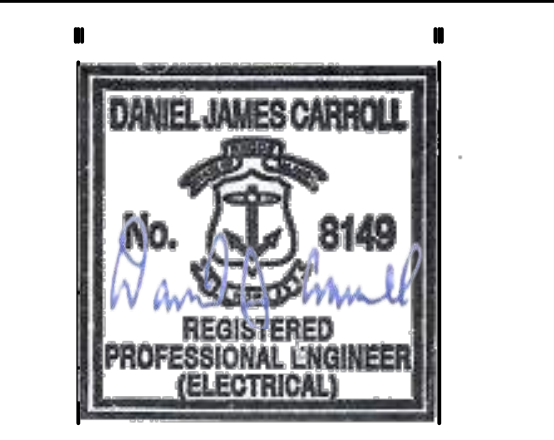
- ① EXISTING DEVICE TO REMAIN THROUGH-OUT CEILING REMOVAL/CONSTRUCTION. PROPERLY SUPPORT AND PROTECT ALL EQUIPMENT DURING CEILING REMOVAL/CONSTRUCTION. ALL ASSOCIATED CABLING SHALL BE SUPPORTED AND PROTECTED DURING CEILING REMOVAL/CONSTRUCTION. ANY EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT NO COST TO THE PROJECT.



1 ELECTRICAL PLAN - AREA A - DEMOLITION
1/8" = 1'-0"



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for
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SHEET TITLE
FIRE ALARM PLAN - AREA A - DEMOLITION

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FAD1.1



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FIRE ALARM PLANS - AREAS B, C & D - DEMOLITION

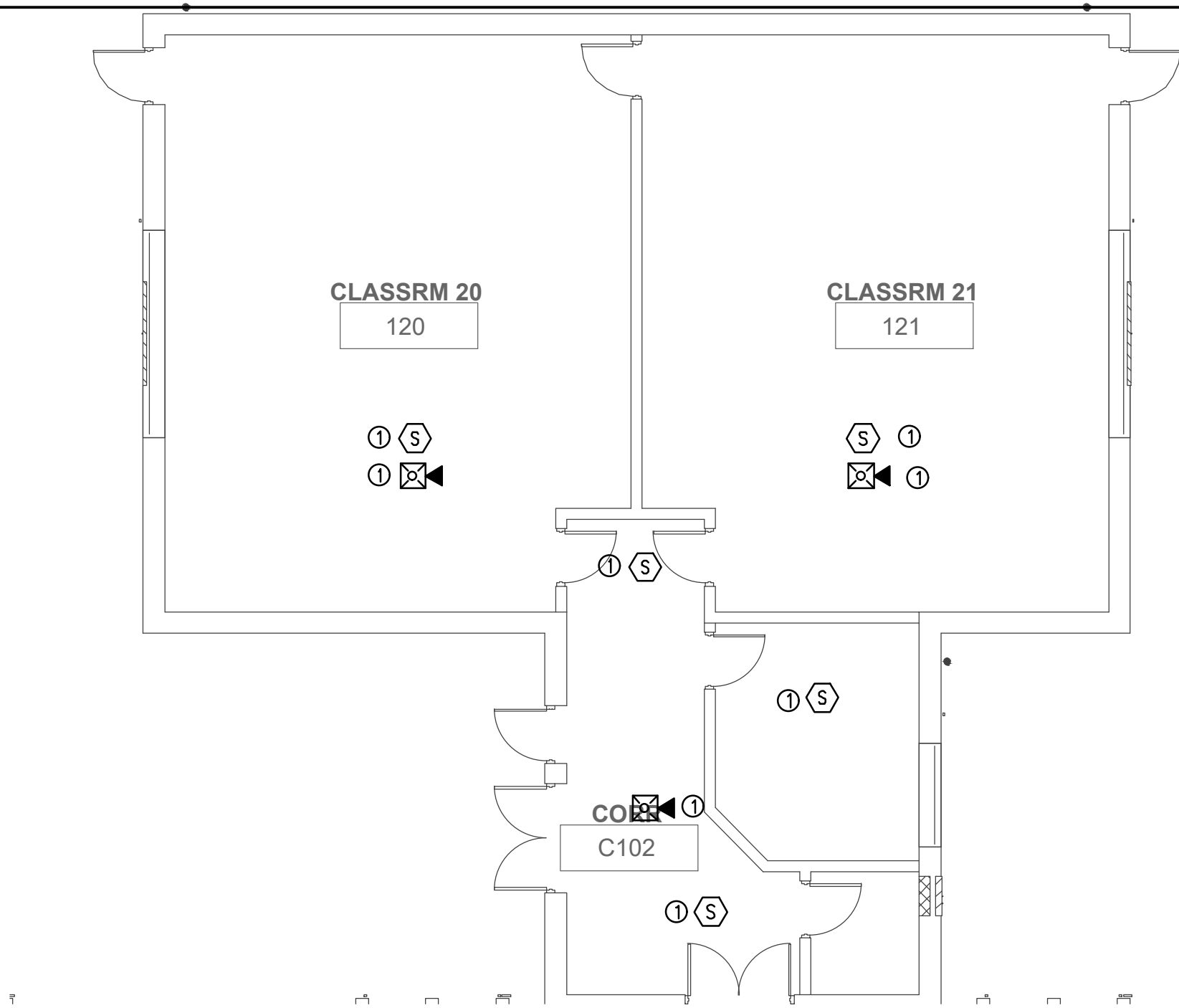
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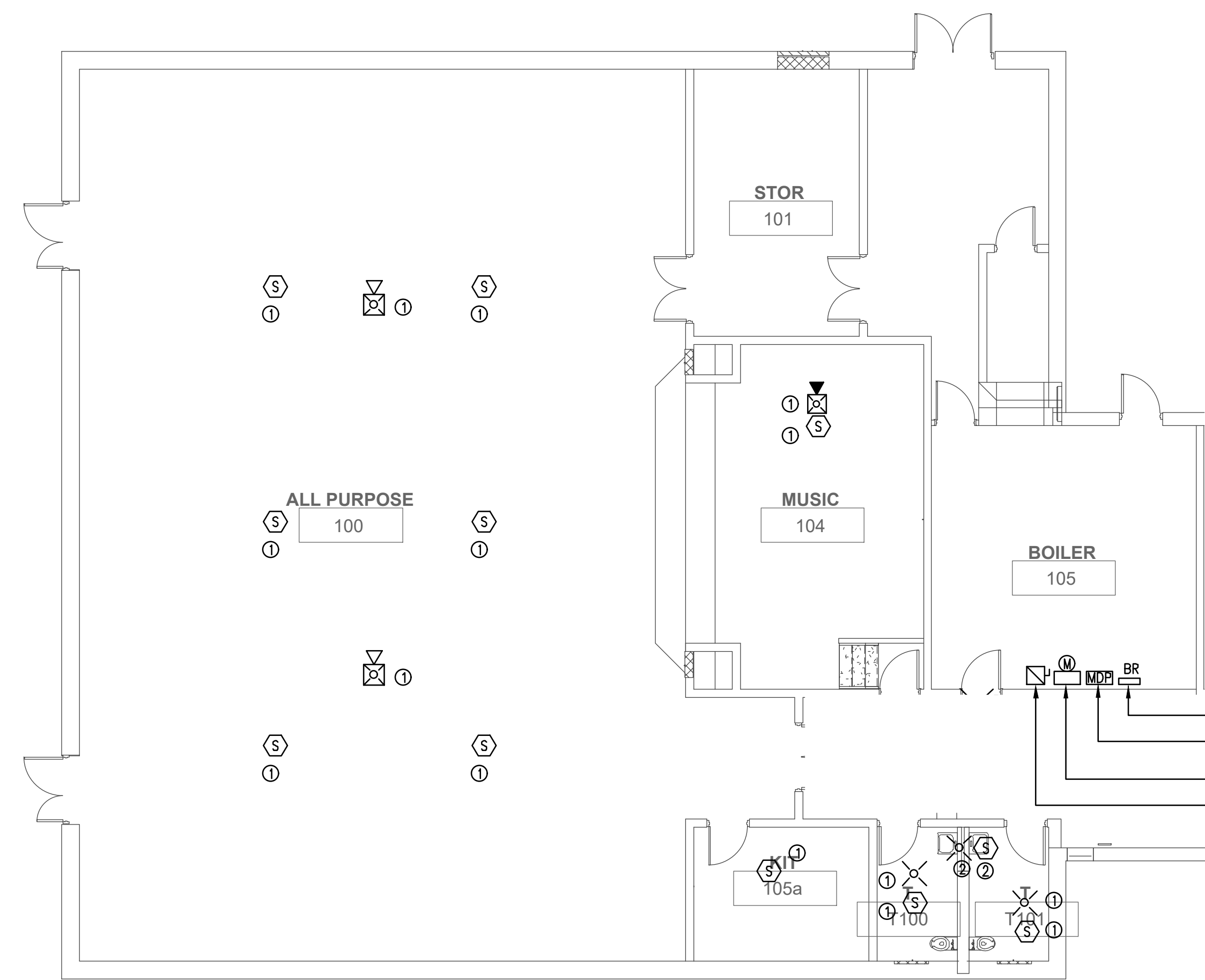
FAD1.2

SHEET: 42 OF: 44

BER# 21228



1 ELECTRICAL PLAN - AREA B - DEMOLITION
 1/8" = 1'-0"



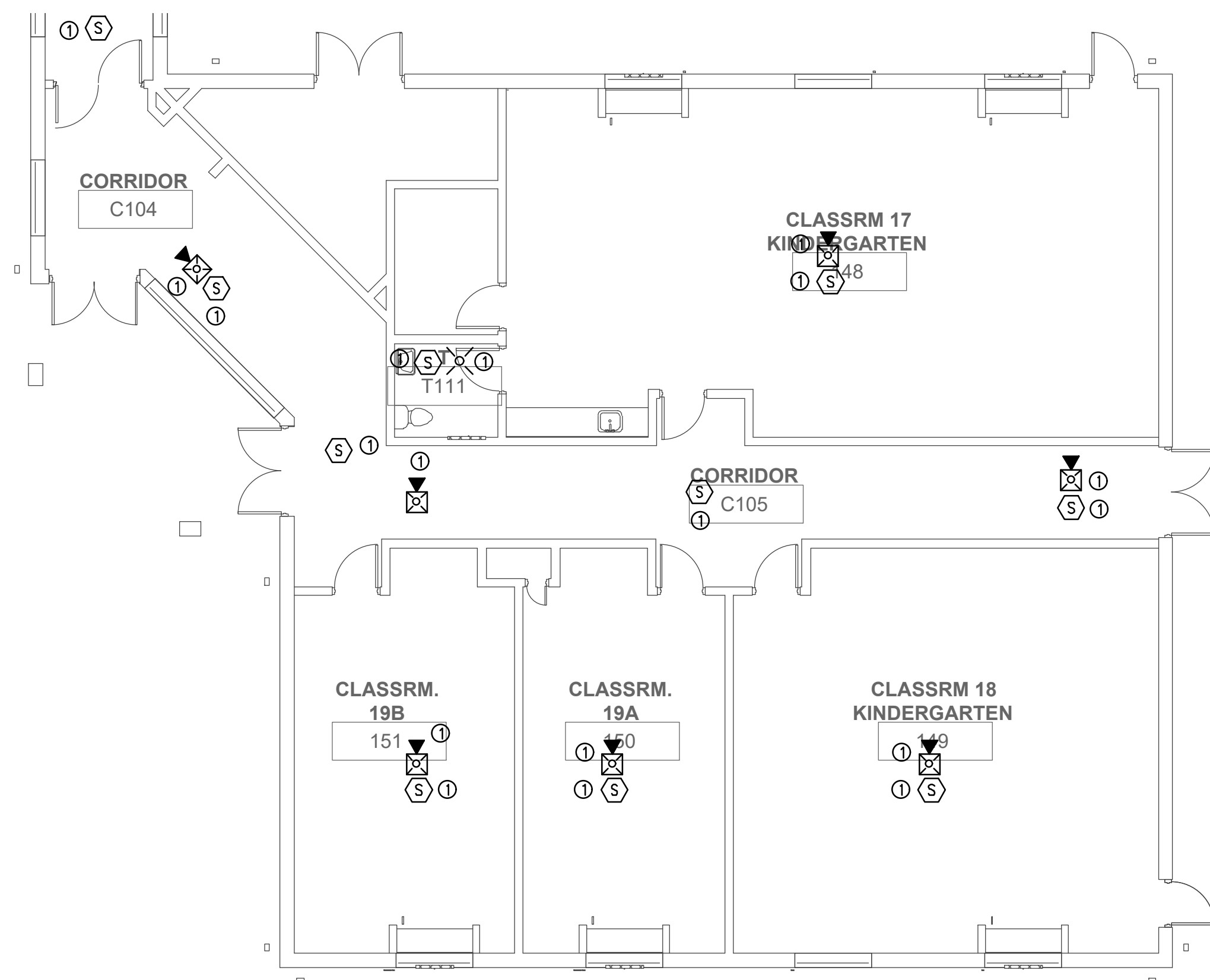
2 ELECTRICAL PLAN - AREA C - DEMOLITION
 1/8" = 1'-0"

GENERAL NOTE:

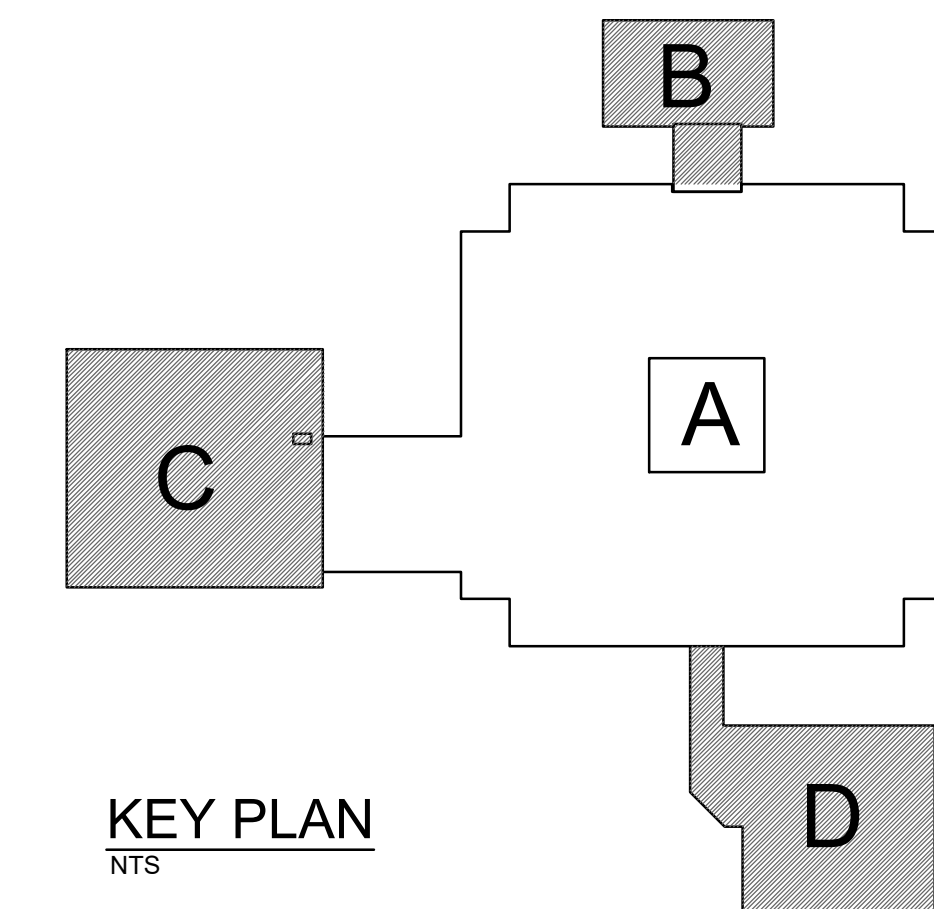
PRIOR TO CONSTRUCTION BEGINNING, THE CONTRACTOR SHALL PERFORM A WALK-THRU TO REVIEW THE EXISTING CONDITION OF ALL ELECTRICAL EQUIPMENT AFFECTED BY THIS PROJECT. ANY EQUIPMENT FOUND TO BE DEFECTIVE SHALL BE RECORDED. ONCE ALL EQUIPMENT HAS BEEN INSPECTED, THE CONTRACTOR SHALL NOTIFY THE OWNER/ARCHITECT/ENGINEER OF ANY DEFECTIVE EQUIPMENT. FAILURE TO PERFORM THIS WORK WILL FORFEIT ANY ADDITIONAL MONIES TO REPLACE/REPAIR DAMAGED EQUIPMENT.

KEYED NOTES - APPLIES TO FAD1.2 DETAIL 1, 2, & 3 ONLY:

- ① EXISTING DEVICE TO REMAIN THROUGH-OUT CEILING REMOVAL/CONSTRUCTION. PROPERLY SUPPORT AND PROTECT ALL EQUIPMENT DURING CEILING REMOVAL/CONSTRUCTION. ALL ASSOCIATED CABLING SHALL BE SUPPORTED AND PROTECTED DURING CEILING REMOVAL/CONSTRUCTION. ANY EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT NO COST TO THE PROJECT.
- ② EXISTING DEVICE/APPLIANCE TO BE DISCONNECTED AND TURNED OVER TO OWNER. MAINTAIN EXISTING FIRE ALARM CABLING IN ACCORDANCE WITH RI STATE FIRE CODE.



3 ELECTRICAL PLAN - AREA D - DEMOLITION
 1/8" = 1'-0"



KEY PLAN
 NTS

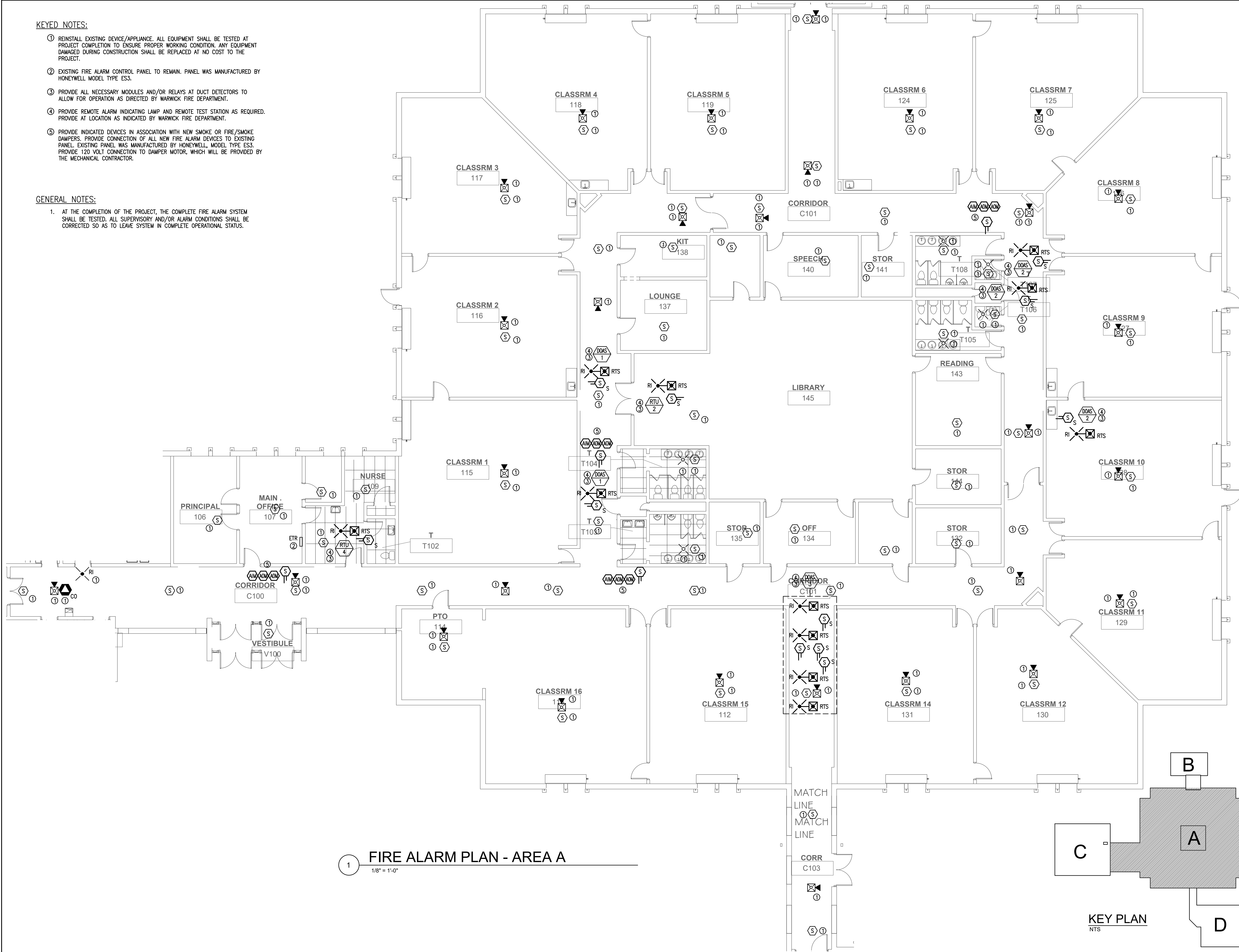
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KEYED NOTES:

- ① REINSTALL EXISTING DEVICE/APPLIANCE. ALL EQUIPMENT SHALL BE TESTED AT PROJECT COMPLETION TO ENSURE PROPER WORKING CONDITION. ANY EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT NO COST TO THE PROJECT.
- ② EXISTING FIRE ALARM CONTROL PANEL TO REMAIN. PANEL WAS MANUFACTURED BY HONEYWELL MODEL TYPE ESS.
- ③ PROVIDE ALL NECESSARY MODULES AND/OR RELAYS AT DUCT DETECTORS TO ALLOW FOR OPERATION AS DIRECTED BY WARWICK FIRE DEPARTMENT.
- ④ PROVIDE REMOTE ALARM INDICATING LAMP AND REMOTE TEST STATION AS REQUIRED. PROVIDE AT LOCATION AS INDICATED BY WARWICK FIRE DEPARTMENT.
- ⑤ PROVIDE INDICATED DEVICES IN ASSOCIATION WITH NEW SMOKE OR FIRE/SMOKE DAMPERS. PROVIDE CONNECTION OF ALL NEW FIRE ALARM DEVICES TO EXISTING PANEL. EXISTING PANEL WAS MANUFACTURED BY HONEYWELL, MODEL TYPE ESS. PROVIDE 120 VOLT CONNECTION TO DAMPER MOTOR, WHICH WILL BE PROVIDED BY THE MECHANICAL CONTRACTOR.

GENERAL NOTES:

- 1. AT THE COMPLETION OF THE PROJECT, THE COMPLETE FIRE ALARM SYSTEM SHALL BE TESTED. ALL SUPERVISORY AND/OR ALARM CONDITIONS SHALL BE CORRECTED SO AS TO LEAVE SYSTEM IN COMPLETE OPERATIONAL STATUS.



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

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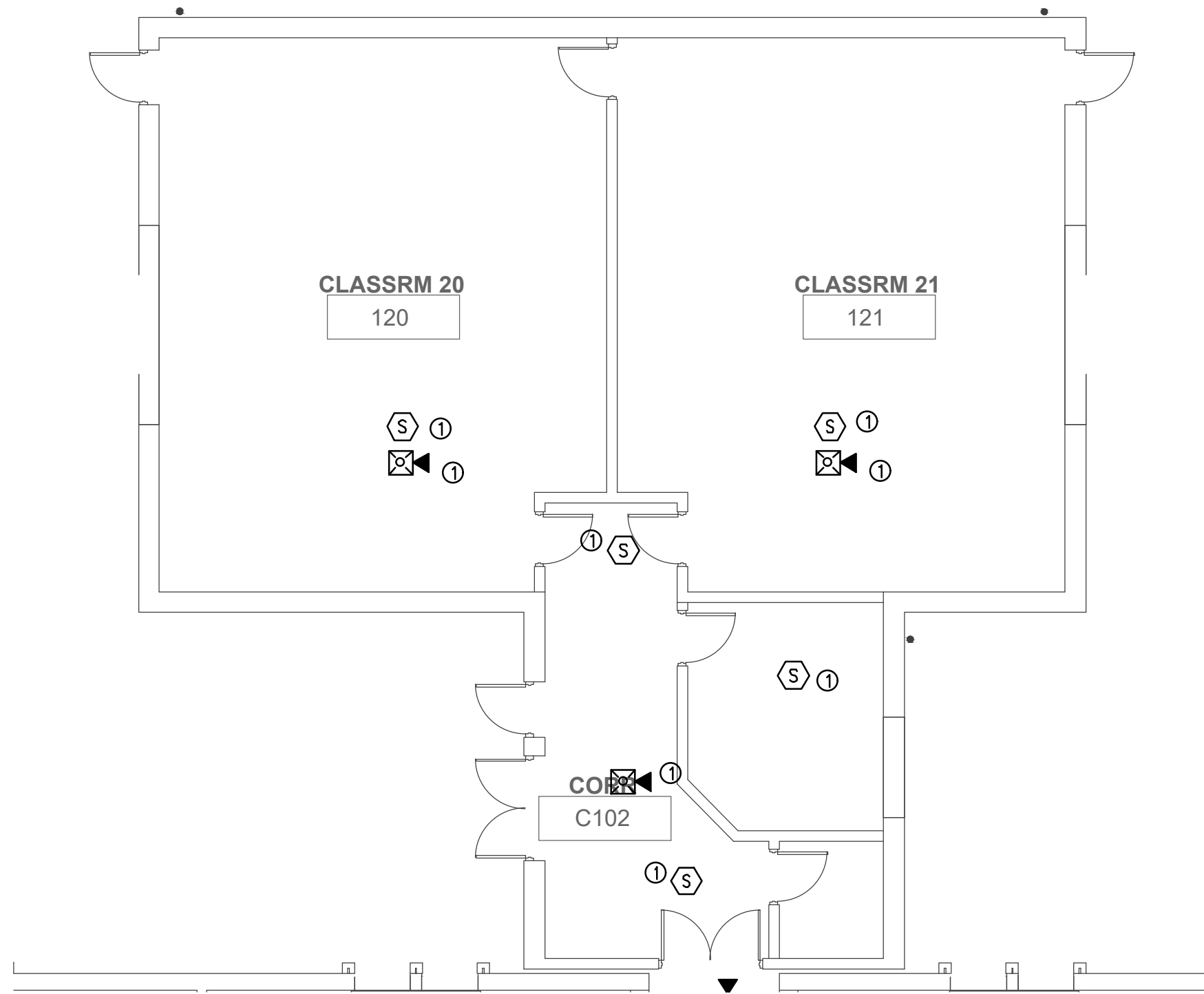
FIRE ALARM PLAN - AREA A

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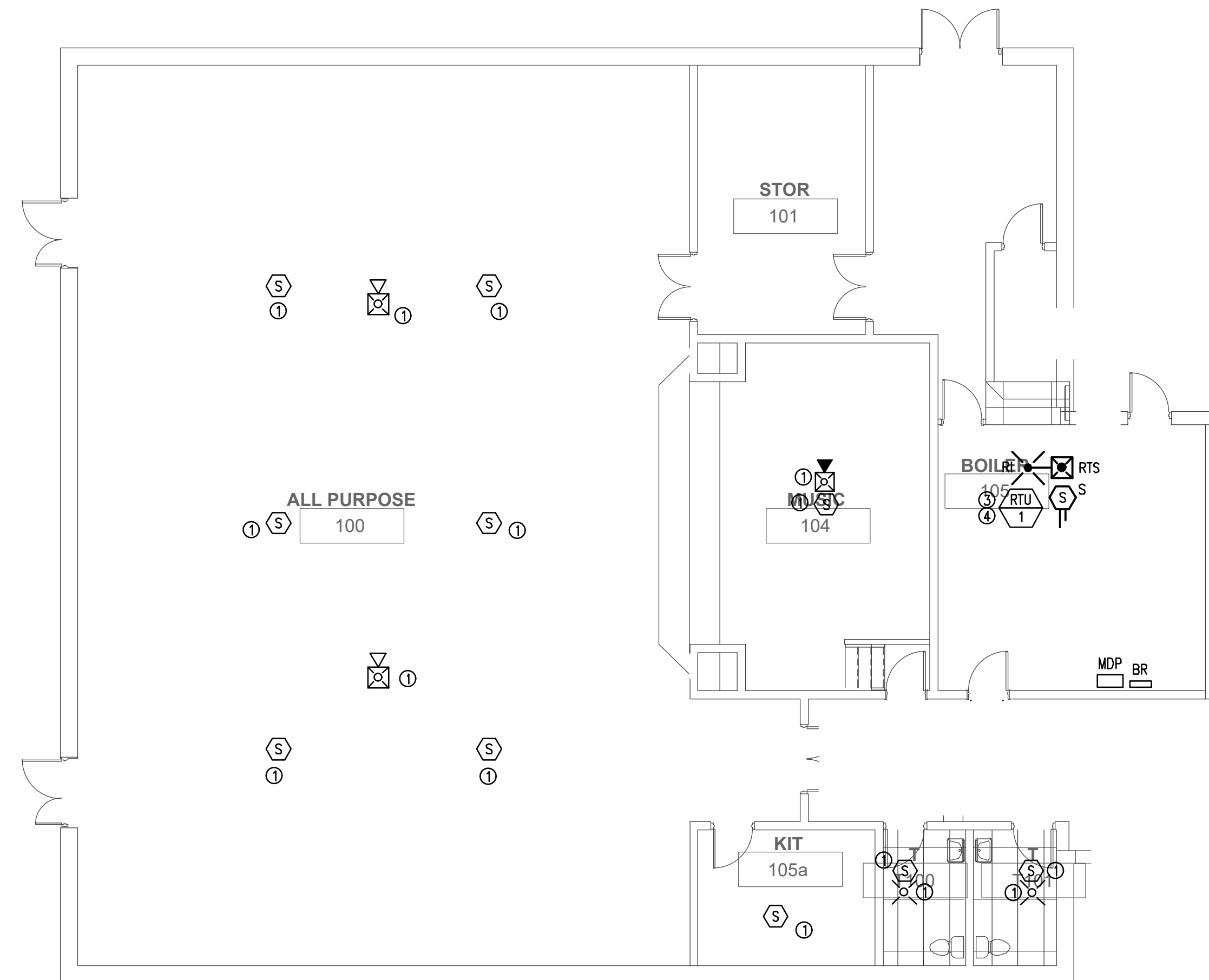
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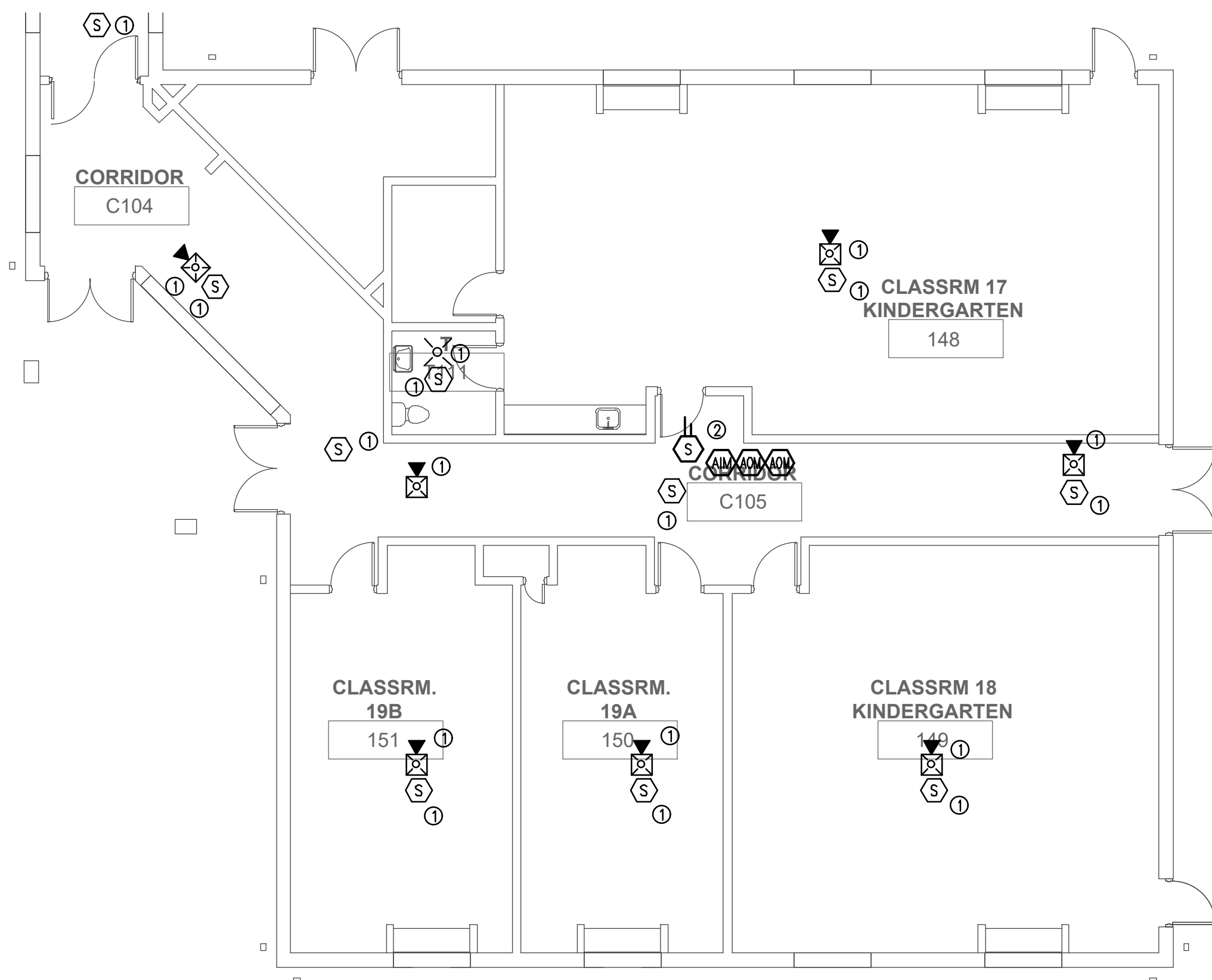
SHEET: 43 OF: 44
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1 FIRE ALARM PLAN - AREA B
1/8" = 1'-0"



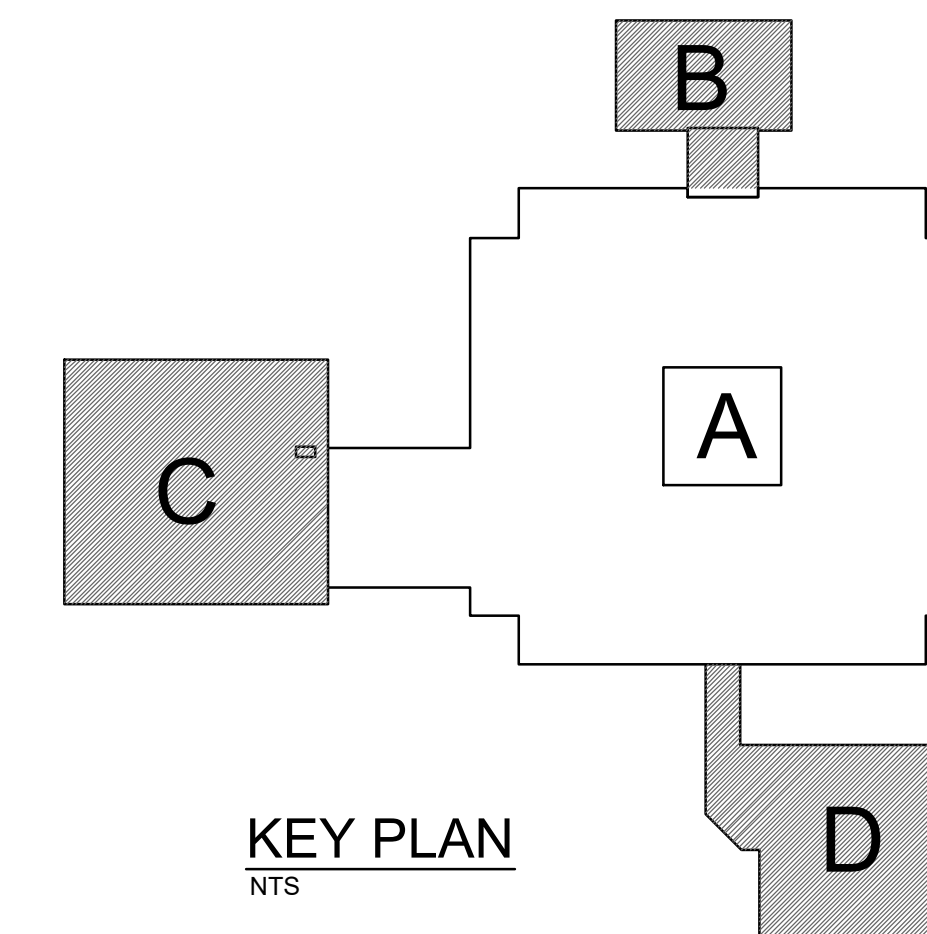
2 FIRE ALARM PLAN - AREA C
1/8" = 1'-0"



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

KEYED NOTES:

- ① REINSTALL EXISTING DEVICE/APPLIANCE. ALL EQUIPMENT SHALL BE TESTED AT PROJECT COMPLETION TO ENSURE PROPER WORKING CONDITION. ANY EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT NO COST TO THE PROJECT.
- ② PROVIDE INDICATED DEVICES IN ASSOCIATION WITH NEW SMOKE OR FIRE/SMOKE DAMPERS. PROVIDE CONNECTION OF ALL NEW FIRE ALARM DEVICES TO EXISTING PANEL. EXISTING PANEL WAS MANUFACTURED BY HONEYWELL, MODEL TYPE ES3. PROVIDE 120 VOLT CONNECTION TO DAMPER MOTOR, WHICH WILL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
- ③ PROVIDE ALL NECESSARY MODULES AND/OR RELAYS AT DUCT DETECTORS TO ALLOW FOR OPERATION AS DIRECTED BY WARWICK FIRE DEPARTMENT.
- ④ PROVIDE REMOTE ALARM INDICATING LAMP AND REMOTE TEST STATION AS REQUIRED. PROVIDE AT LOCATION AS INDICATED BY WARWICK FIRE DEPARTMENT.



KEY PLAN
NTS

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for
Warwick School
Department

Revision Schedule	
Revision Number	Revision Date

SHEET TITLE

FIRE ALARM PLANS -
AREAS B, C & D

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