CCEC DATA CENTER RENOVATIONS

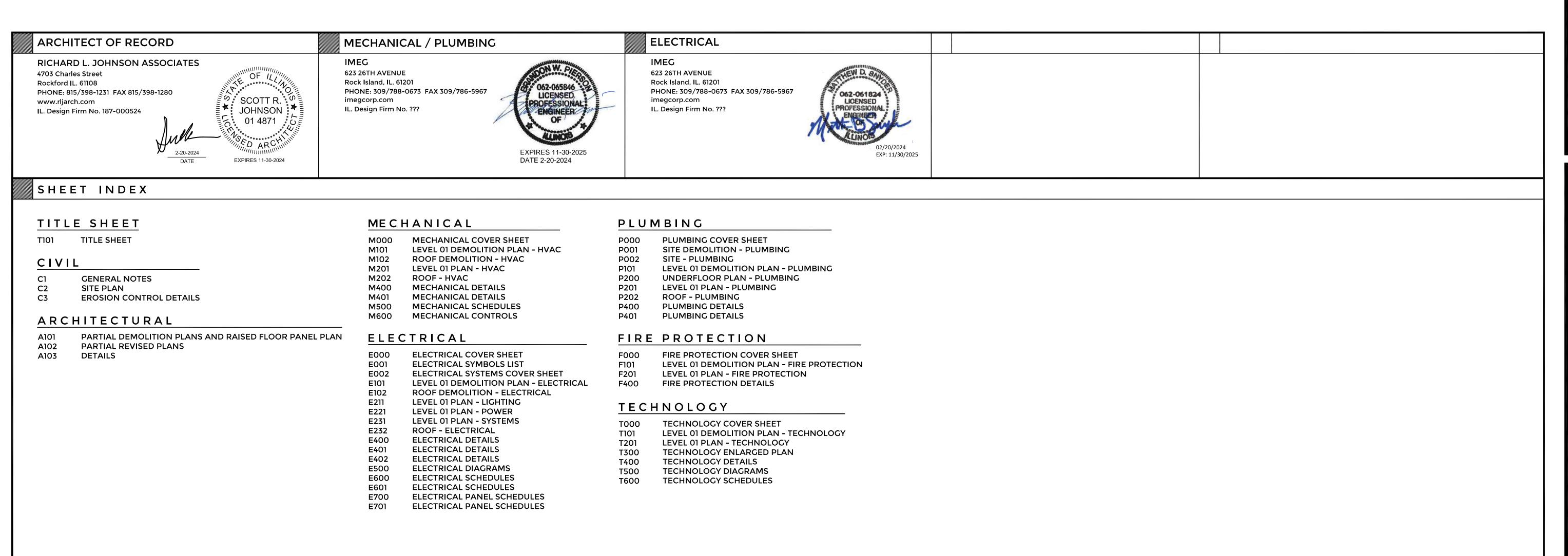
4152 SAMUELSON ROAD ROCKFORD, ILLINOIS 61109 RPS PROJECT NO. 2439

IFB NO. 24-39

OWNER

ROCKFORD PUBLIC SCHOOL DISTRICT #205

501 7TH STREET ROCKFORD, ILLINOIS 61104



SHEET NUMBER

ROCK

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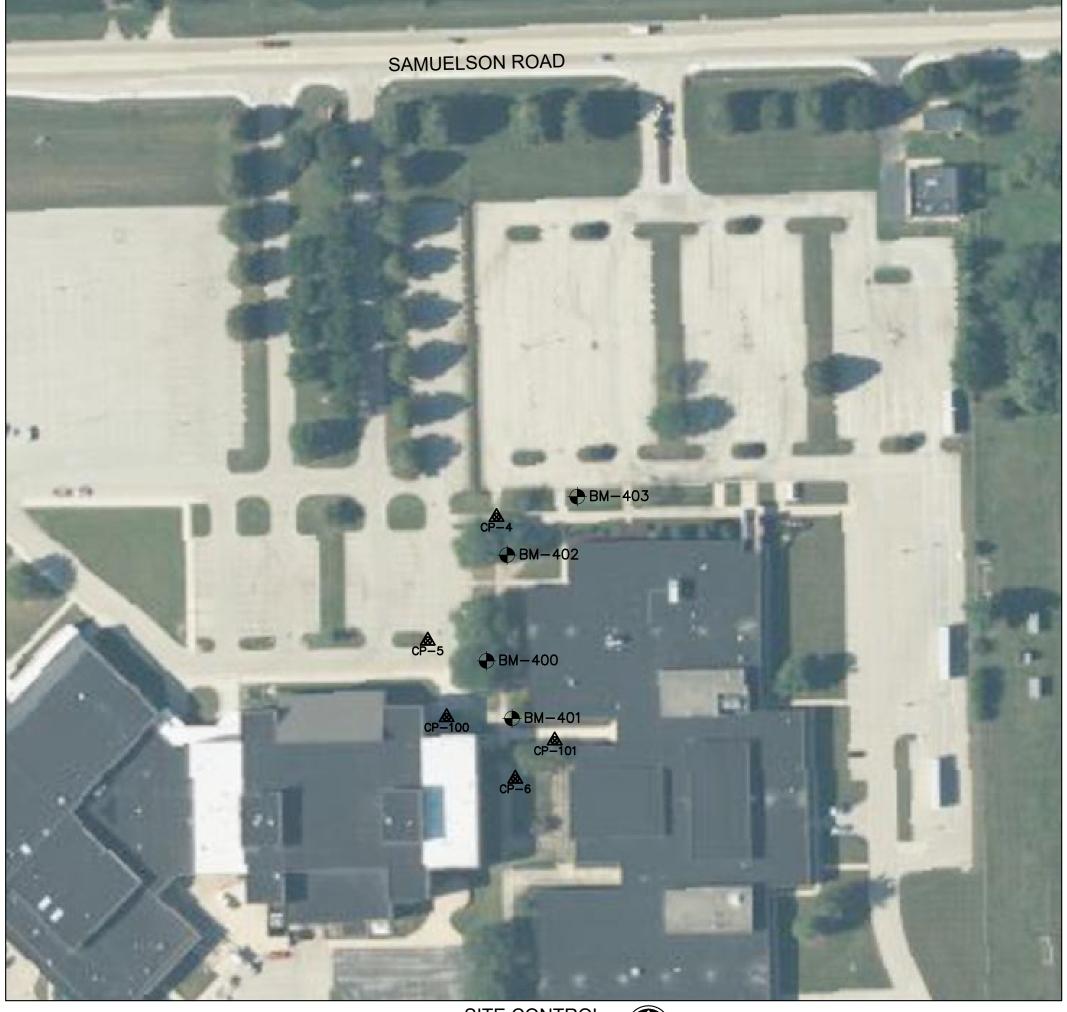
SHEET NUMBER

- 1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE CONSIDERED EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. JULIE (800) 892-0123.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF UTILITY PLACEMENTS/RELOCATIONS WITH THE APPROPRIATE UTILITY COMPANIES.
- 3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ROCKFORD PUBLIC SCHOOL DISTRICT 205 AND THE CITY OF ROCKFORD.
- 4. ALL EXISTING ITEMS NOT NOTED TO BE REMOVED ARE TO REMAIN.
- 5. FIELD VERIFY HORIZONTAL AND VERTICAL CONTROL PRIOR TO COMMENCING OF WORK. IF ANY DISCREPANCIES ARE FOUND, NOTIFY THE ENGINEER. ADJUSTMENTS OR CORRECTIONS SHALL BE MADE BY THE ENGINEER.
- 6. ALL DIMENSIONS ARE FROM EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- 7. SAW CUT PAVEMENT/CURB AT LIMITS OF ALL PAVEMENT/SIDEWALK REMOVAL.
- 8. INSTALL 1/2" EXPANSION JOINT WITH FILLER AND SEALANT TO MATCH CONCRETE BETWEEN CONCRETE WALKS. PADS. FOUNDATIONS, WALLS, AND OTHER STRUCTURES. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 9. DISTANCE BETWEEN EXPANSION JOINTS SHALL NOT EXCEED 30 L.F. ON LINEAR CONCRETE WALKS OR 200 S.F. ON EXTERIOR SLABS. DISTANCE BETWEEN SCORE JOINTS SHALL NOT EXCEED 6 L.F. ON LINEAR CONCRETE WALKS.
- 10. PAVEMENT MARKING PAINT SHALL BE AS MANUFACTURED BY PRATT & LAMBERT OR EQUAL. COLOR: WHITE. ALL PAVEMENT MARKINGS SHALL BE 4" WIDE. ALL DIAGONAL STRIPING AS SHOWN SHALL BE 24" ON-CENTER AT 45° TO PARKING AGAINST VEHICULAR FLOW DIRECTION.
- 11. CONTRACTOR SHALL KEEP THE ADJACENT PUBLIC ROADS FREE OF DIRT AND DEBRIS DUE TO CONSTRUCTION AT ALL TIMES.
- 12. ALL TRUNCATED DOMES FOR THE ADA SIDEWALK RAMPS SHALL BE RED FIBERGLASS TRUNCATED DOMES AS MANUFACTURED BY ADA SOLUTIONS OR APPROVED EQUAL.
- 13. CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE ALL EXISTING UNDERGROUND UTILITIES ON PRIVATE SCHOOL DISTRICT PROPERTY. THE COST OF LOCATING THE UTILITIES SHALL BE INCLUDED IN THE CONTRACTOR'S BASE BID.

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ROCKFORD PUBLIC SCHOOL DISTRICT 205 AND THE CITY OF ROCKFORD.
- 2. ALL EXISTING ITEMS NOT NOTED TO BE REMOVED ARE TO REMAIN AND BE PROTECTED AS NECESSARY.
- 3. FIELD VERIFY HORIZONTAL AND VERTICAL CONTROL PRIOR TO COMMENCING OF WORK. IF ANY DISCREPANCIES ARE FOUND, NOTIFY THE ENGINEER. ADJUSTMENTS OR CORRECTIONS SHALL BE MADE BY THE ENGINEER.
- 4. ALL SIDEWALK SUBGRADE AREAS TO BE COMPACTED TO 95% OF STANDARD PROCTOR AT $\pm 1/2$ OF OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698.
- 5. EROSION CONTROL PRACTICES TO BE BASED ON STANDARD SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AS CONTAINED IN I.E.P.A./WPC/87-012.
- 6. ALL PAVEMENT AREAS TO BE FREE OF ORGANIC SOIL OR TOPSOIL. BUILDING AND PAVED AREAS TO
- 7. EARTHWORK SHALL BE COMPLETED TO ROUGH GRADE PRIOR TO INSTALLING ANY UTILITIES.
- 8. NO SLOPES SHALL EXCEED 25% (4:1).
- 9. ALL NON-PAVED AREAS DISTURBED BY CONSTRUCTION SHALL RECEIVE A MINIMUM OF 4" OF TOPSOIL, SEEDING LAWN MIXTURE, AND HYDRAMULCH OR EROSION CONTROL BLANKET.
- 10. ALL ITEMS NOTED TO BE REMOVED AS WELL AS ALL EXCAVATED MATERIAL NOT SUITABLE FOR FILL OR BACKFILL BECOME THE PROPERTY OF THE CONTRACTOR AND ARE TO BE REMOVED FROM SITE AND BE DISPOSED OF LEGALLY, UNLESS OTHERWISE NOTED.
- 11. UNSUITABLE MATERIAL REMOVED BELOW THE PROPOSED BUILDING AND PARKING AREAS SHALL BE DISPOSED OF ONSITE AT THE LOCATIONS SHOWN AND REPLACED WITH ENGINEERED FILL AS DIRECTED BY THE SOILS ENGINEER.
- 12. ALL PROPOSED PAVED AREAS, UNLESS OTHERWISE SPECIFIED, ARE TO BE 1.00% MINIMUM & 3.50% MAXIMUM.

	HORIZONTAL	CONTROL - NAD8	3	
	NORTHING	EASTING	DESCRIPTION	
CP-4	2020306.6010	2602606.0400	CHISELED "X"	
CP-5	2020177.8260	2602534.3550	5/8" REBAR W/ YELLOW CAP	
CP-6	2020034.0730	2602625.5010	CHISELED "X"	
CP-100	2020098.1120	2602554.0430	NAIL	
CP-101	2020073.7780	2602666.5750	NAIL	
	VERTIC	AL CONTROL		
	DE	SCRIPTION	ELEVATION	
DN4 400	NORTH BOLT ON FIRE H	IYDRANT, SOUTHEAST	222.24	

P-100 2020098.1120 2602554.0430 NAIL P-101 2020073.7780 2602666.5750 NAIL VERTICAL CONTROL
VERTICAL CONTROL
DESCRIPTION ELEVATION
NORTH BOLT ON FIRE HYDRANT, SOUTHEAST CORNER OF JEFFERSON HS PARKING LOT 860.81
1-401 CUT "X" ON WEST SIDE OF LIGHT BASE, LIGHT POLE WEST OF DOOR "P" OF RVC BUILDING. 860.86
1-402 CUT "X" ON WEST SIDE OF LIGHT BASE, LIGHT POLE NORTHWEST OF RVC BUILDING 861.73
NORTH BOLT ON FIRE HYDRANT, FIRST HYDRANT EAST OF SOUTHEAST CORNER OF RVC PARKING LOT/ NORTH SIDE OF RVC BUILDING 862.01





	SYMBOL LEGEND		ABBRE'	VIATIONS
PROPOSED	EXISTING		AC ASPH	ACRES ASPHALT
			B-B	BACK TO BACK
lacktriangle		STORM MANHOLE	BIT BLDG	BITUMINOUS BUILDING
	\bigcirc	STORM INLET	BLVD	BOULEVARD
(\bigcirc	SANITARY MANHOLE	BC	BACK OF CURB
		SANITARY/STORM CLEANOUT	BRK	BRICK
	0		BW	BOTTOM OF WALL
	?	UNKNOWN MANHOLE	C&G CL	CURB AND GUTTER CENTERLINE
H	\bowtie	WATER VALVE	CONC	CONCRETE
lacksquare	\forall	HYDRANT	CY	CUBIC YARD
		VALVE VAULT	Δ	DELTA ANGLE
	_		DC	DEPRESSED CURB
	V	SPRINKLER BOX	DIA	DIAMETER
W	W	WATER METER	DRV	DRIVEWAY
E	E	ELECTRIC PEDESTAL/TRANSFORMER	E-E EL	EDGE TO EDGE ELEVATION
	_		EP EP	EDGE OF PAVEMENT
E	E	ELECTRIC METER	EX	EXISTING
T	Т	TELEPHONE PEDESTAL	FDN	FOUNDATION
C		CABLE TV PEDESTAL	FF	FINISH FLOOR
			FL	FLOWLINE
ННН	ННН	HANDHOLE (SINGLE/ DOUBLE)	FS GRVL	FINISH SURFACE
	А	AIR CONDITIONING UNIT	GRVL	GRAVEL GUTTER
×	<u> </u>	LIGHT POLE	L	LENGTH
	\bowtie	LIGITIFOLE	LF	LINEAL/LINEAR FEET
		SIGN	LS	LANDSCAPING
			PCC	PORTLAND CEMENT CONCRETE
	\sim	FLAGPOLE	PR	PROPOSED
	®	POST/BOLLARD	PVMT	PAVEMENT
	گِر	ADA STALL	R RD	RADIUS ROAD
		7.57. 3 17.EE	RL	REFERENCE LINE
	12"		RR	RAILROAD
	{ • }	DECIDUOUS TREE	SF	SQUARE FEET
	6"		SHLD	SHOULDER
	M	DI ICU/CUDUD	ST	STREET
	₹°}	BUSH/SHRUB	STD	STANDARD
	Α	CONTROL BOINT	SW	SIDEWALK
		CONTROL POINT	SY	SQUARE YARD
		BENCHMARK	TC TEMP	TOP OF CURB TEMPORARY
	T	ODOT ELEVATION	TW	TOP OF WALL
	×100.00	SPOT ELEVATION	ÜĞ	UNDERGROUND
	TC=100.00 FL=100.00	GRADE LABEL		
	1 0%	DDAINAGE CLODE	UTILITIE	-S

UTILITIES

CLEANOUT

MANHOLE

SANITARY

WATER MAIN

STORM

UTILITY

INVERT

FIRE HYDRANT

FLARED END SECTION

CORRUGATED METAL PIPE

DUCTILE IRON PIPE

VITRIFIED CLAY PIPE

CORRUGATED PLASTIC PIPE

POLYVINYL CHLORIDE PIPE REINFORCED CONCRETE PIPE

CORRUGATED POLYETHYLENE PIPE

CORRUGATED POLYVINYL CHLORIDE PIPE

ELLIPTICAL REINFORCED CONCRETE PIPE HIGH DENSITY POLYETHYLENE PIPE

PRESTRESSED CONCRETE CYLINDER PIPE

ARCH DIA EQUIVALENT REINFORCED CONCRETE PIPE

CO

FES

FΗ

МН

SAN

STM

UTIL

ARCP

CPE

CPP

CPVC DIP

ERCP

PCCP

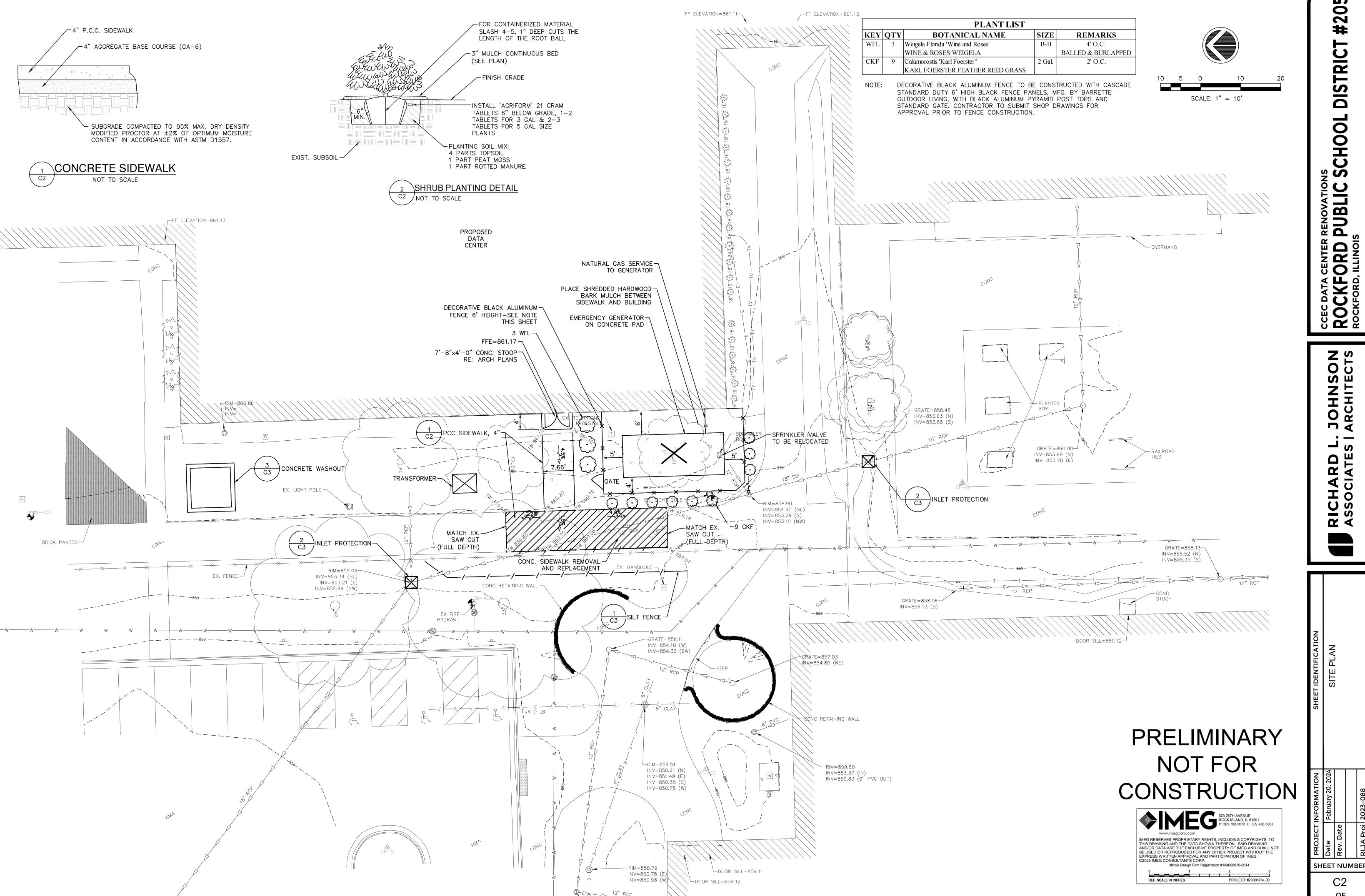
WM

LINETYPE LEGEND

1.0%

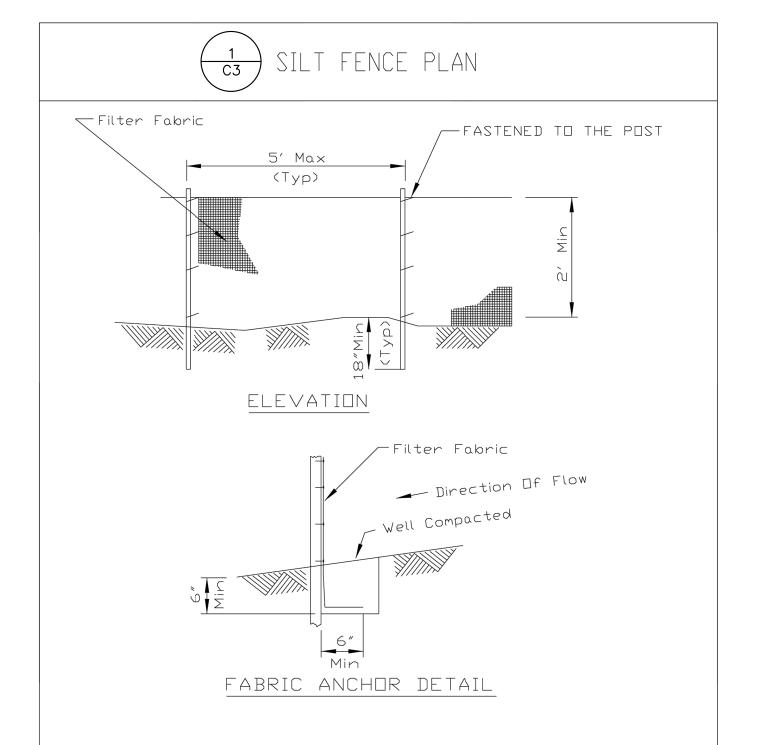
DRAINAGE SLOPE

PROPOSED	EXISTING	
	—(—(—	SANITARY SEWER
		STORM SEWER
ww	W	WATER LINE
—Е——Е——	——Е ———Е ———	UNDERGROUND ELECTRIC
—	—— G ——— G ———	GAS LINE
—TV ——TV ——	— TV ——— TV ———	TELEVISION LINE
<u>—т——т——</u>	—T——T——	TELEPHONE LINE
	• • • • • • • • • • • • • • • • • • • •	EDGE OF WATER LINE/DITCH FLOWLINE
		CHAIN LINK FENCE
—×—×	XX	WIRE FENCE
//	/	SILT FENCE
 100 	- 100 	CONTOUR
		CONSTRUCTION LIMITS
		TOPOGRAPHIC FEATURE AS NOTED



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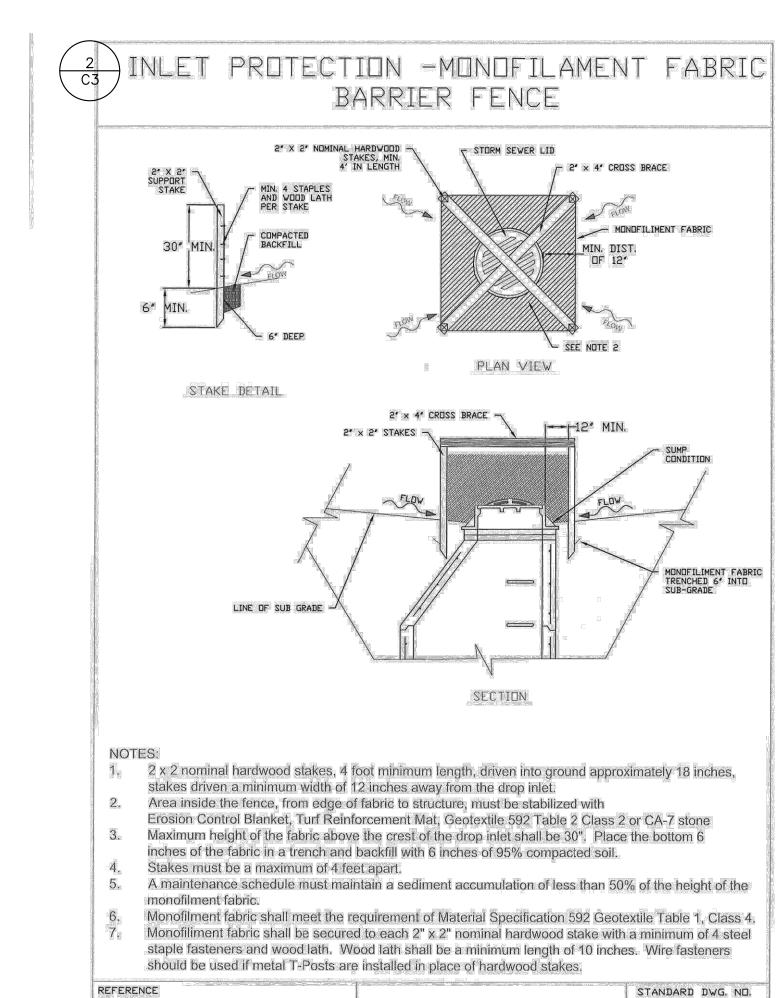
> JOHNSON RCHITECTS



NOTE

- 1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
- 2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1, Class 2.
- 3. Fence posts shall be either standard steel post or wood post 2" X 2" nominal.

reference Project	standard dwg. no.
Checked Date Approved Date	SHEET 1 OF 2 DATE 04-15-2021



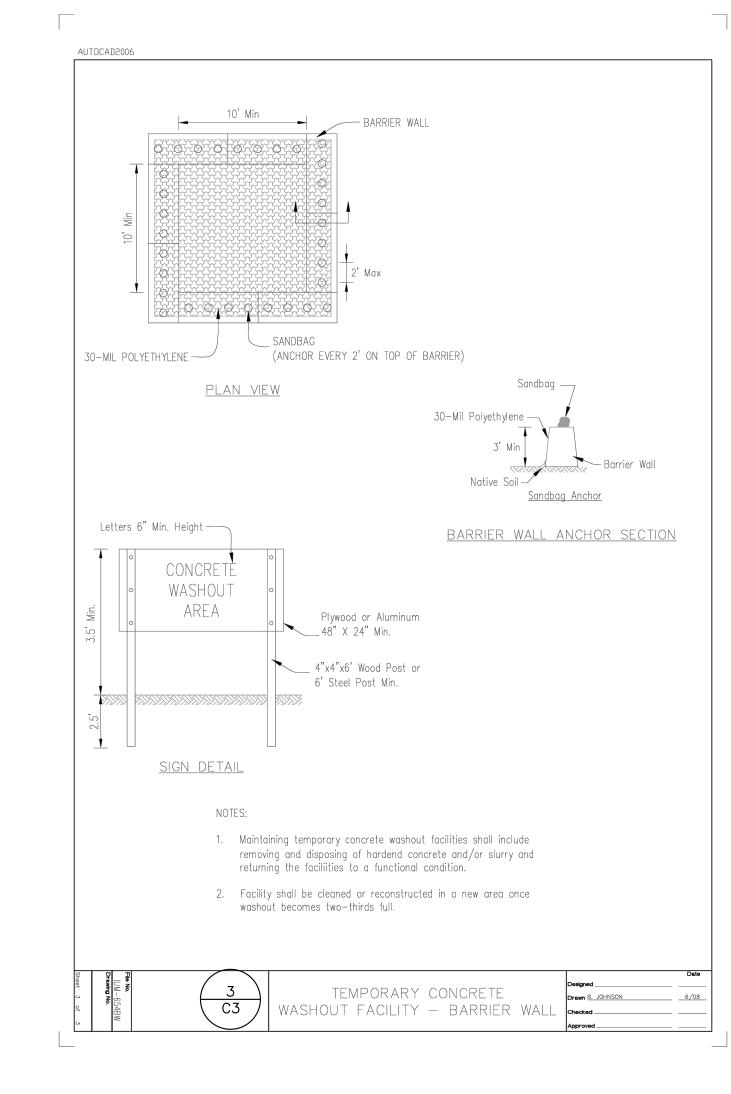
Project

Designed Checked

Approved

Date Date

__ Date ___





IUM-531

SHEET 1 OF 1

DATE 04-6-15

#202

DISTRICT

R RENOVATIONS

PUBLIC SCHOOL I

SHEET IDENTIFICATION	FROSION CONTROL DET			
Z		i		
PROJECT INFORMATION	February 20, 2024			2023-088
PROJECT	Date	Rev. Date		RLJA Proj 2023-088
SH	EET	NL	JME	
	C3			

SHEET NOMBEE

EXISTING SERVER RACKS TO REMAIN.

T UNDER A SEPARATE CONTRACT: ASBESTOS CONTRACTOR TO REMOVE EXISTING SUSPENDED PLASTER CEILING SYSTEM.

U REMOVE EXISTING CARPET FOR ELECTRICAL TO CUT AND TRENCH EXISTING CONCRETE SLAB.

GENERAL NOTES

AND FINISHES TO REMAIN

REMOVED AND/OR RELOCATED.

WALLS PRIOR TO PAINTING.

DEMOLITION BOX NOTES

DOOR(S), FRAME AND HARDWARE.

BORROWED LITE FRAME AND GLAZING.

G REMOVE EXISTING PROJECTION SCREEN.

K REMOVE EXISTING LAY-IN ACOUSTICAL CEILING SYSTEM.

REMOVE CARPET FLOORING AND RUBBER BASE.

REMOVE EXISTING LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

N REMOVE EXISTING DIFFUSER/GRILLE. SEE MECHANICAL DRAWINGS.

REMOVE EXISTING FIRE DETECTOR. SEE ELECTRICAL DRAWINGS.

FIRE EXTINGUISHER CABINET.

F REMOVE EXISTING WHITE BOARD.

WALL CONSTRUCTION.

CONSTRUCTION.

DRAWINGS.

SHEETS IN THE SET

THE OWNER.

THE DEMOLITION PLAN IS PROVIDED AS AN AID IN PLANNING AND DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY IN FIELD VERIFYING THE EXISTING

AND REMOVAL OF DEBRIS NECESSARY TO ACCOMMODATE NEW CONSTRUCTION

THIS DEMOLITION PLAN IS TO BE USED IN CONJUNCTION WITH THE REST OF THE

PROVIDE ALL TEMPORARY SHORING AS REQUIRED TO SUPPORT STRUCTURES

ALL AREAS, FINISHES AND ITEMS NOT REQUIRING DEMOLITION MUST BE

PATCH EXISTING FLOORS, WALLS AND CEILINGS OF EXISTING BUILDING AS

REFERENCE HVAC, PLUMBING, AND ELECTRICAL SHEETS FOR ITEMS TO BE

ALL ITEMS TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE. VERIFY WITH OWNER WHAT ITEMS

EXISTING FURNITURE IN THE ROOMS BEING RENOVATED WILL BE REMOVED BY

CONTRACTOR SHALL PROVIDE TEMPORARY WALL BARRIERS TO SEPARATE THE

. CONTRACTOR TO REPAIR OR PATCH ANY HOLES, VOIDS OR CRACKS IN EXISTING

A REMOVE EXISTING ACCESS FLOOR PANELS. EXISTING SUPPORT SYSTEM TO REMAIN
B UNDER A SEPARATE CONTRACT: ASBESTOS CONTRACTOR TO REMOVE EXISTING

UNDER A SEPARATE CONTRACT: ASBESTOS CONTRACTOR TO REMOVE EXISTING

D UNDER A SEPARATE CONTRACT: ASBESTOS CONTRACTOR TO REMOVE EXISTING

UNDER A SEPARATE CONTRACT: ASBESTOS CONTRACTOR TO REMOVE EXISTING

H REMOVE EXISTING WALL MOUNTED CLOCK. PATCH WALL. SEE ELECTRICAL

SAWCUT EXISTING CONCRETE WALL PANELS AND REMOVE EXISTING WALL

M REMOVE AND REINSTALL EXISTING SPRINKLER HEAD. SEE FIRE PROTECTION

CONSTRUCTION AS REQUIRED FOR NEW DOOR AND FRAME. CENTER OPENING IN CONCRETE PANEL. CUT DOWN FOUNDATION 8" BELOW FINISHED FLOOR. UNDER A SEPARATE CONTRACT: ASBESTOS CONTRACTOR TO REMOVE THE INTERIOR WALL

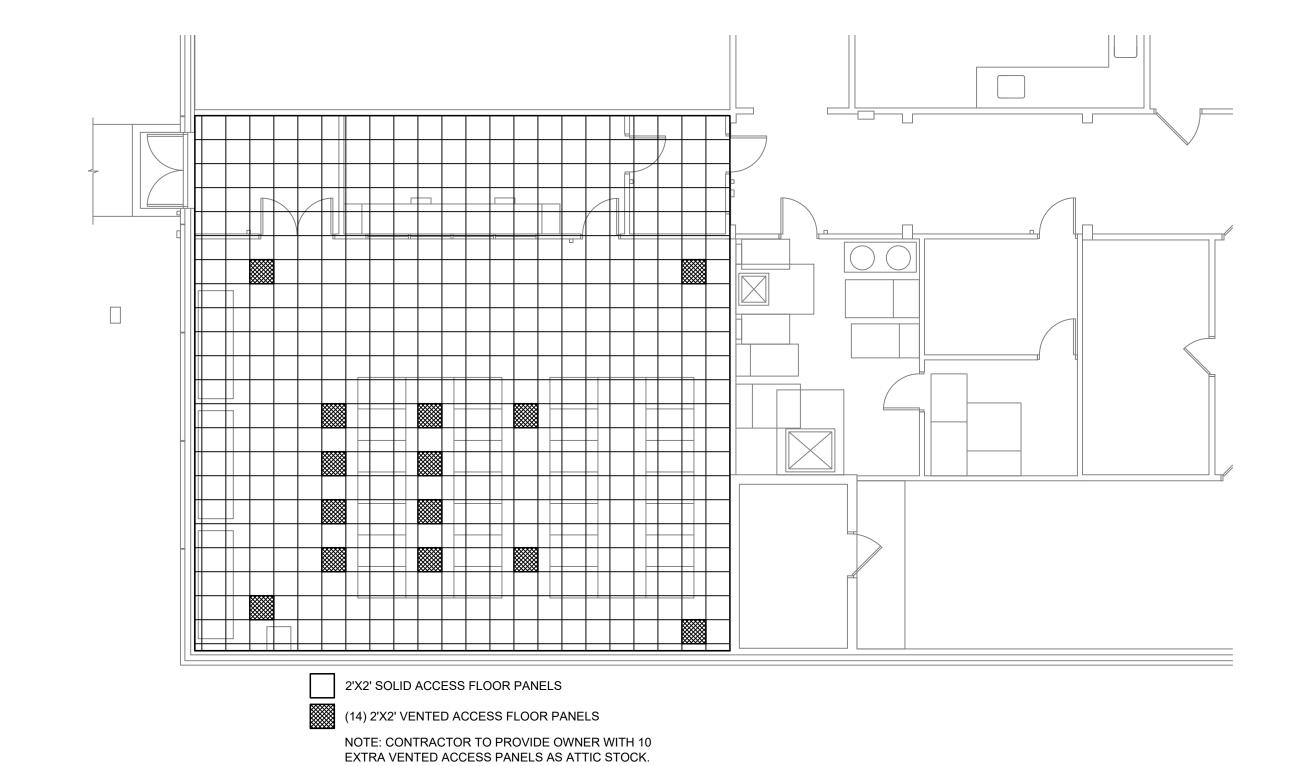
CONSTRUCTION AREA FROM THE REST OF THE SCHOOL TO PREVENT DUST AND

PROTECTED DURING DEMOLITION AND CONSTRUCTION WORK

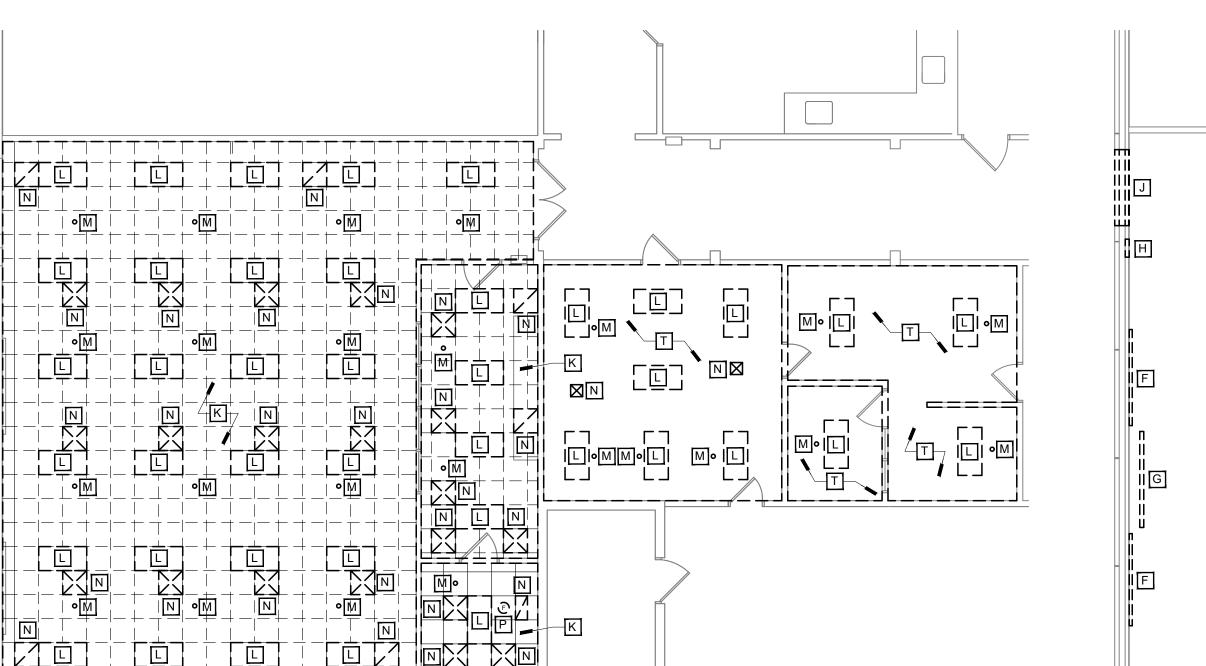
THEY WANT TO SALVAGE PRIOR TO REMOVING THEM OFF SITE.

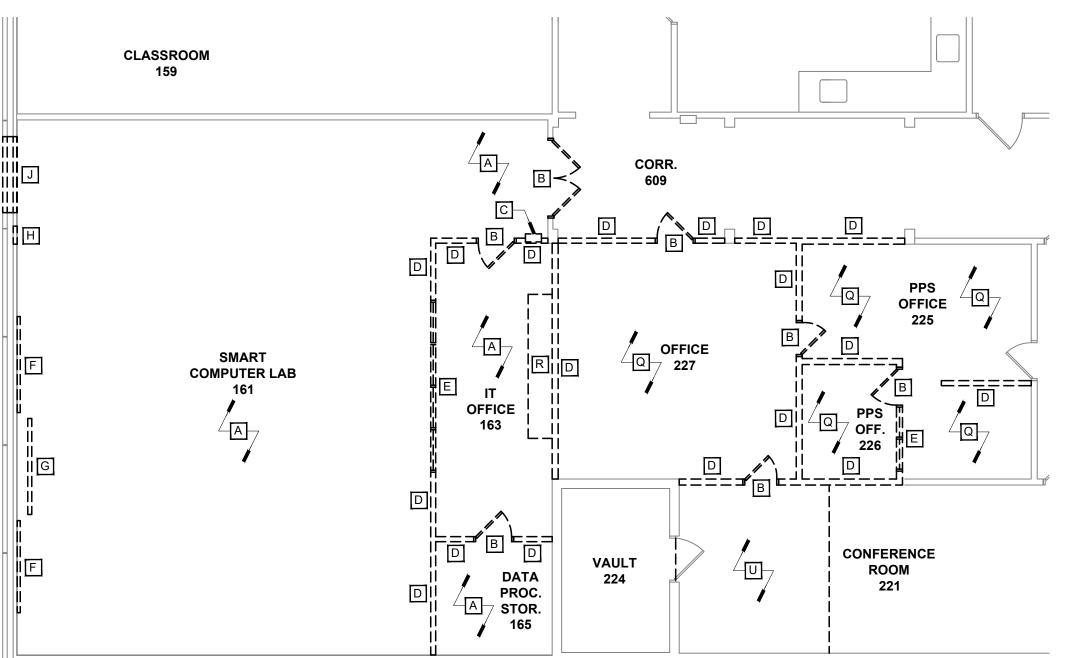
REQUIRED AFTER DEMOLITION TO MATCH EXISTING.

DEBRIS FROM LEAVING THE CONSTRUCTION AREA.

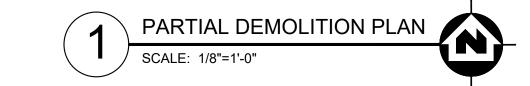


RAISED FLOOR PANEL PLAN
SCALE: 1/8"=1'-0"







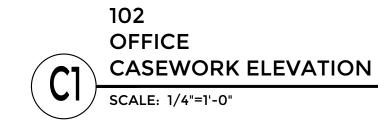




D D

SHEET NUMBER A102

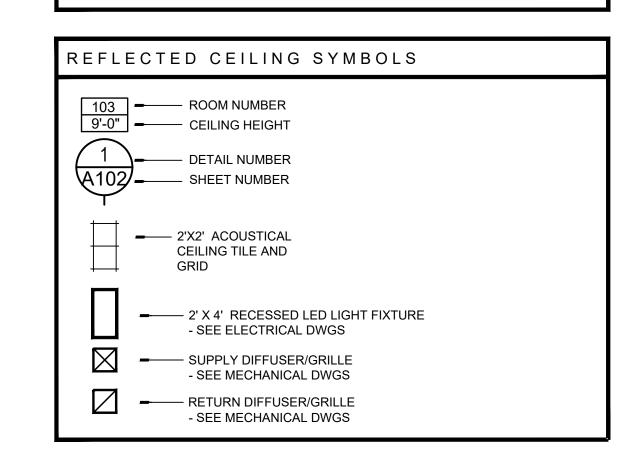
— SURFACE MOUNTED RACEWAY FEβ0" dpFE — SUPPORT BRACKETS AT 3'-0" O.C.



REFLECTED CEILING GENERAL NOTES

ALL CEILING HEIGHTS ARE TAKEN FROM FINISH FLOOR OF INDIVIDUAL AREAS.

- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF BUILT-IN ITEMS, INCLUDING SUPPLY DIFFUSERS, EXHAUST REGISTERS, SPEAKERS, SPRINKLER HEADS, ETC.
- PROVIDE ADEQUATE CLEARANCE FOR ELECTRICAL AND MECHANICAL WORK.
- PRIOR TO THE INSTALLATION OF ANY MODIFIED CEILING HEIGHTS, NOTIFY ARCHITECT.



PARTITION TYPES

- 5/8" TYPE "X" GYP. BOARD BOTH SIDES OF 3-5/8" METAL STUDS @ 16" O.C. W/ SOUND ATTENUATION BLANKETS. ASSEMBLY TO EXTEND TO STRUCTURE ABOVE. PAINT. PROVIDE RUBBER BASE.
- 5/8" TYPE "X" GYP. BOARD BOTH SIDES OF 3-5/8" METAL STUDS @ 16" O.C. W/ SOUND ATTENUATION BLANKETS. ASSEMBLY TO EXTEND TO STRUCTURE ABOVE. PAINT. PROVIDE RUBBER BASE. 1 HOUR WALL RATING.



RENOVATION KEY NOTES

6 PAINT WALL FROM CORNER TO CORNER

7 CARD READER. SEE ELECTRICAL DRAWINGS

9 AXIS SYSTEM. SEE ELECTRICAL DRAWINGS.

CONCRETE SIDEWALK. SEE CIVIL DRAWINGS.

2 HOLLOW METAL BORROWED LITE AND GLAZING

15) FIRE SEAL ALL PENETRATIONS THROUGH WALL

FIRE SEAL ALL PENETRATIONS THROUGH WALL.

7) PATCH WALL AS REQUIRED TO MATCH EXISTING.

(9) ELECTRICAL EQUIPMENT. SEE ELECTRICAL DRAWINGS.

10 CONCRETE STOOP. SEE DETAIL S1/A103.

B FUTURE SERVER RACKS. SEE ELECTRICAL DRAWINGS.

MECHANICAL UNIT. SEE MECHANICAL DRAWINGS.

- ALL PENETRATIONS THROUGH WALLS SHALL BE SEALED TIGHT.
- OWNER TO REMOVE FURNITURE AS REQUIRED FOR NEW WORK. ALL EXISTING WALLS AND SOFFITS CALLED TO BE PAINTED SHALL HAVE HOLES AND
- CRACKS FILLED, ANCHORS REMOVED AND PATCHED AS REQUIRED.
- PATCH WALLS TO MATCH EXISTING WHEREVER A WALL IS REMOVED AND NOT COVERED UP FOR NEW CONSTRUCTION. MASONRY WALLS TO BE TOOTHED-IN.
- CONTRACTOR TO PROVIDE WOOD BLOCKING AS REQUIRED IN WALLS FOR ATTACHMENT OF OTHER WORK.
- ALL EXTERIOR DRYWALL CORNERS TO HAVE A STAINLESS STEEL CORNER GUARD.

NEW FLOOR ACCESS PANELS OVER EXISTING SUPPORT SYSTEM. VERIFY

4 30" DEEP X 18'-0" LONG PLASTIC LAMINATE COUNTERTOP. TOP AT 2'-10" AFF.

6> 5/8" TYPE "X" GYP. BOARD ONE SIDE OF 3-5/8" METAL STUDS @ 16" O.C..

CONTRACTOR TO INSTALL OWNER PROVIDED CARPET SQUARES. CONTRACTOR TO PROVIDE AND INSTALL 6" RUBBER BASE ON WALLS.

ASSEMBLY TO EXTEND FROM TOP OF EXISTING WALL TO UNDERSIDE OF DECK.

SERVER RACKS. SEE ELECTRICAL DRAWINGS. VERIFY EXACT LOCATIONS IN FIELD.

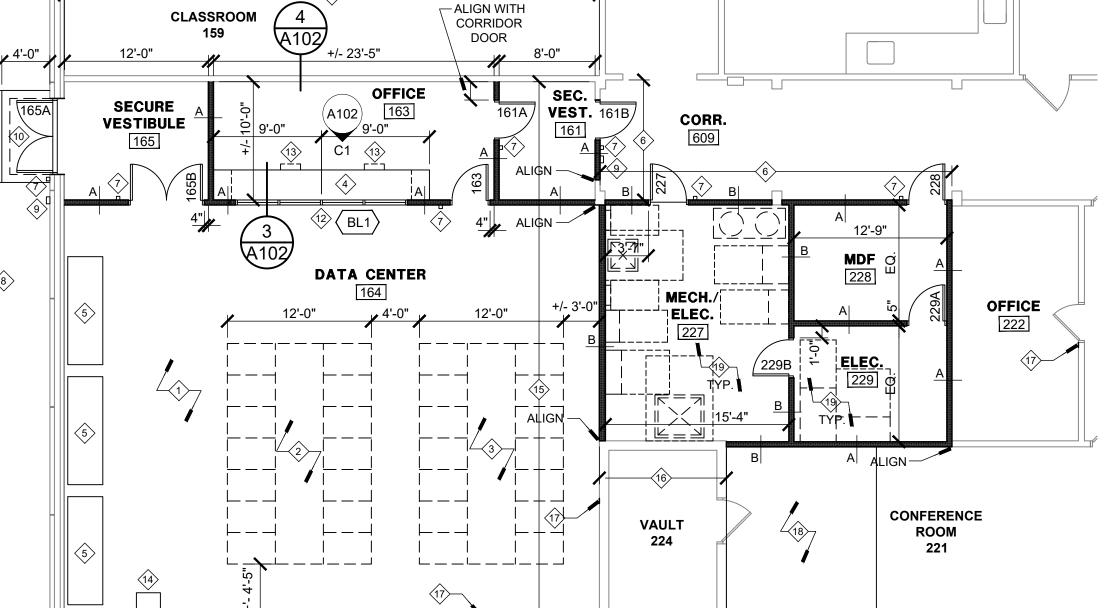
- SEE SPECIFICATIONS IN SECTION 092900 GYPSUM BOARD SYSTEM.
- ROOM SIGNAGE BY OWNER.

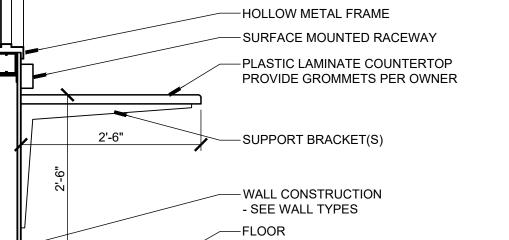
CONFIGURATION IN FIELD.

8 EXISTING TELEPHONE BOX.

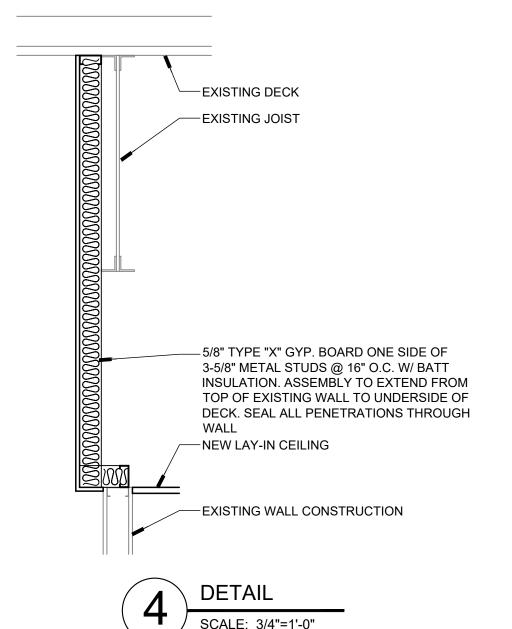
13 CHAIRS BY OWNER.

14) DEMARK RACK BY OWNER.

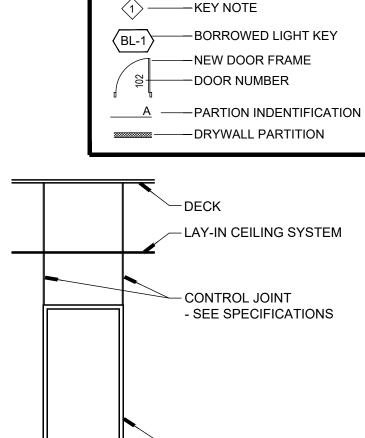




—FLOOR	
DETAIL	
SCALE: 3/4"=1'-0"	•
	DETAIL



AREA OF WORK



GLASS TYPES

GL-1 1/4" TEMPERED GLASS

ABBREVIATIONS

EXISTING

GLASS

CONC | CONCRETE

CPT | CARPET

SEE SPECIFICATIONS FOR GLASS TYPES

FLOOR ACCESS PANELS

GYPSUM WALL BOARD

HOLLOW METAL

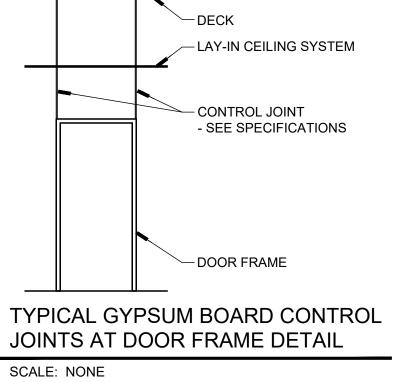
RUBBER BASE

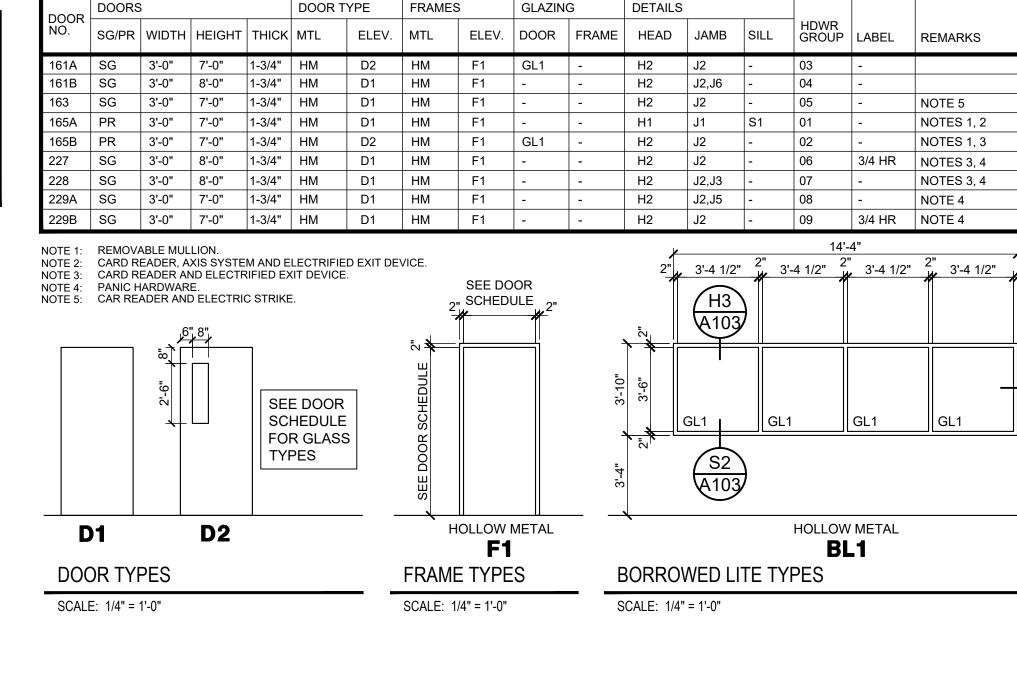
MATERIAL LEGEND

SINGLE

WOOD

ACOUST. CEILING TILE SYSTEM





NORTH

EXTG/PT

EXTG/PT

GYP/PT

EXTG/PT

EXTG/PT

GYP/PT

NOTE 2: CONTRACTOR TO INSTALL OWNER PROVIDED CARPET SQUARES. CONTRACTOR TO PROVIDE AND INSTALL 6" RUBBER BASE ON WALLS.

GYP/PT

GYP/PT

EXTG/PT

EXTG/PT

GYP/PT

EXTG/GYP/PT

EXTG/GYP/PT EXTG

EXTG/GYP/PT GYP/PT

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EXTG

REMARKS

NOTE 3

NOTE 3

NOTE 3

NOTE 3

NOTE 1

ROOM FINISH SCHEDULE

2. ALL NEW BASE TO BE 4" HIGH UNLESS NOTED OTHERWISE.

SECURE VESTIBULE

SECURE VESTIBULE

DOOR SCHEDULE

OFFICE

DATA CENTER

MECH / ELEC

MDF

CORRIDOR

ELEC.

GENERAL NOTES:

FAP

FAP

FAP

3. GRIND AND CLEAN OFF ALL EXISTING ADHESIVE FROM EXISTING CONCRETE SLAB. NOTE 1: CEILING IN CORRIDOR WILL BE REPLACED UNDER A SEPARATE CONTRACT.

6" RB

6" RB

6" RB

6" RB

6" RB

EXTG EXTG/4" RB EXTG

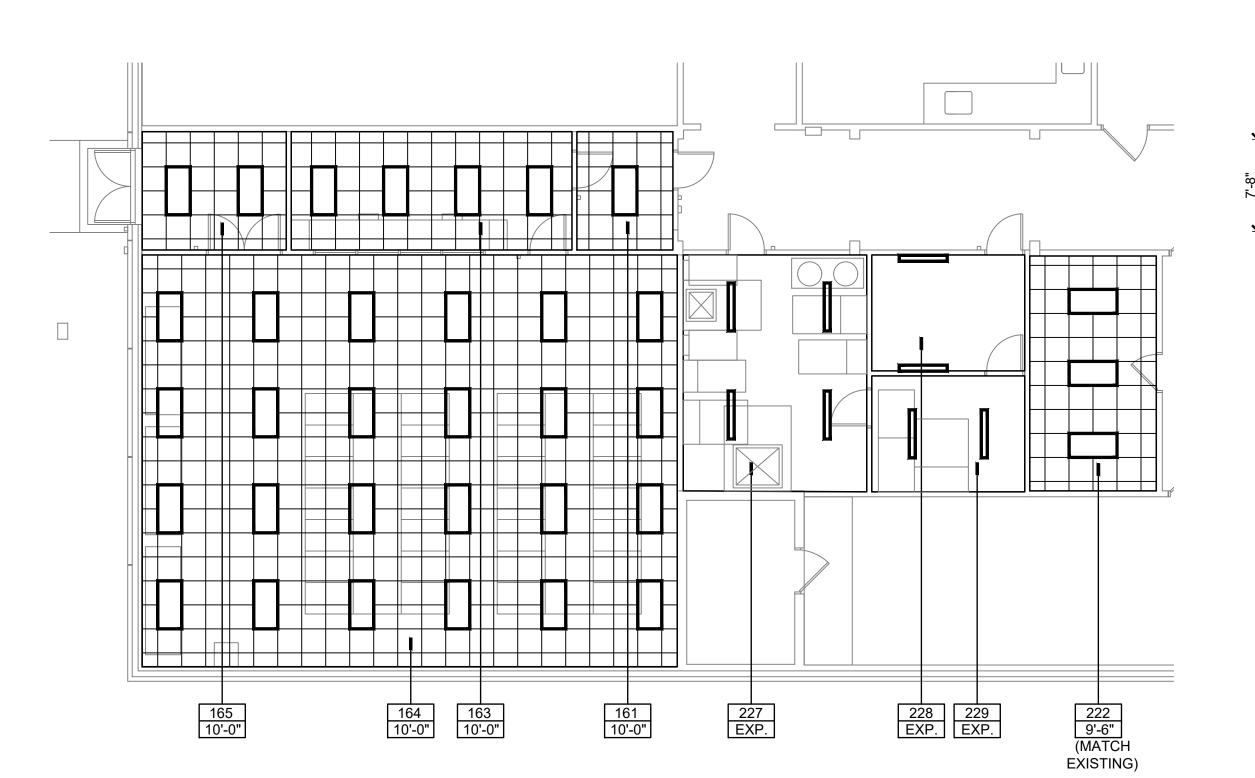
1. ALL NEW HOLLOW METAL DOOR FRAMES, DOORS, BORROWED LITES AND SIDELIGHTS TO BE PAINTED EACH SIDE.

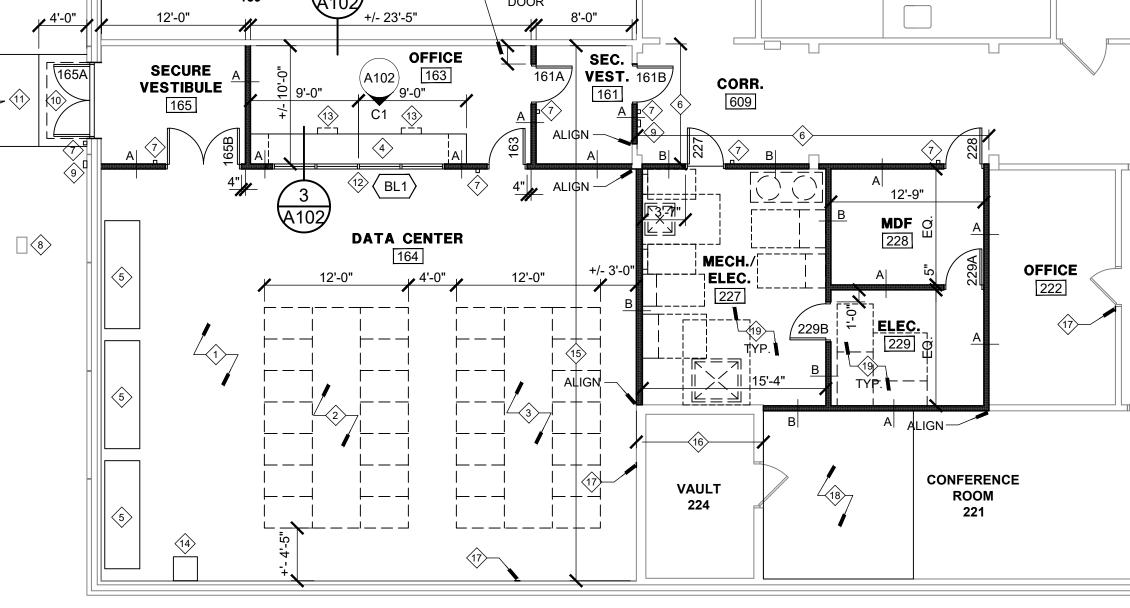
EXTG CONC 6" RB

EXTG CONC 6" RB

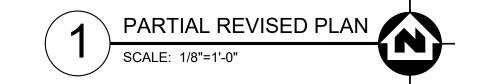
EXTG CONC 6" RB

ROOM

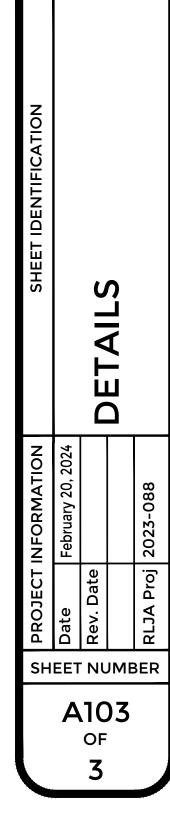


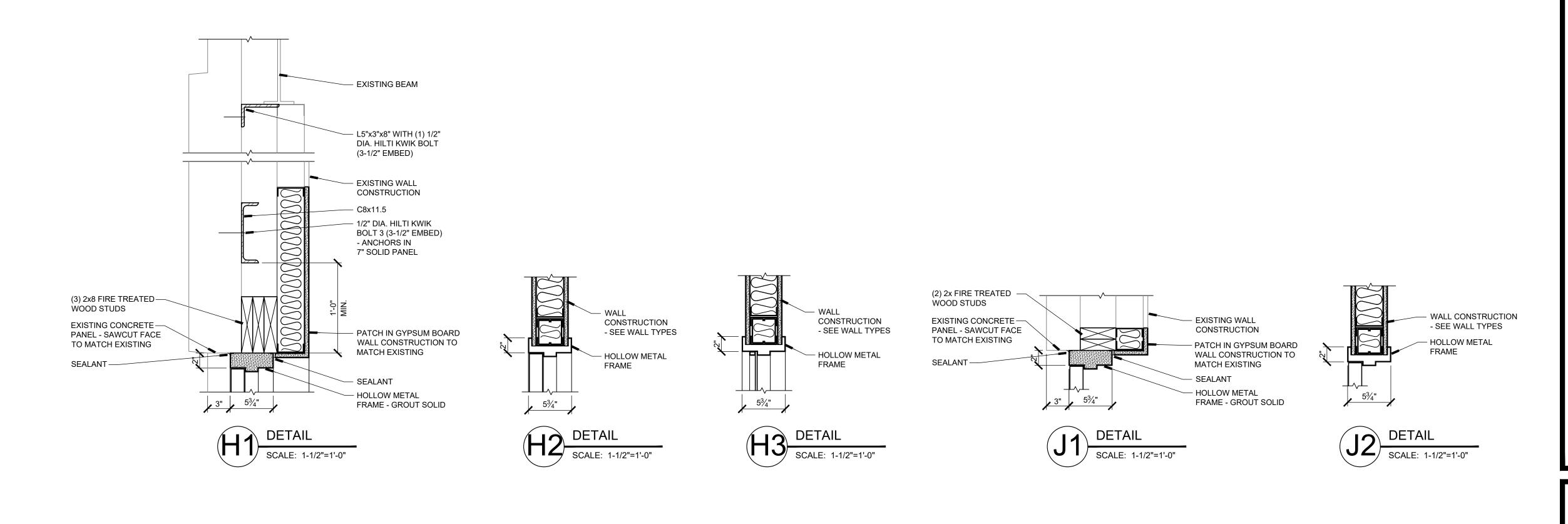


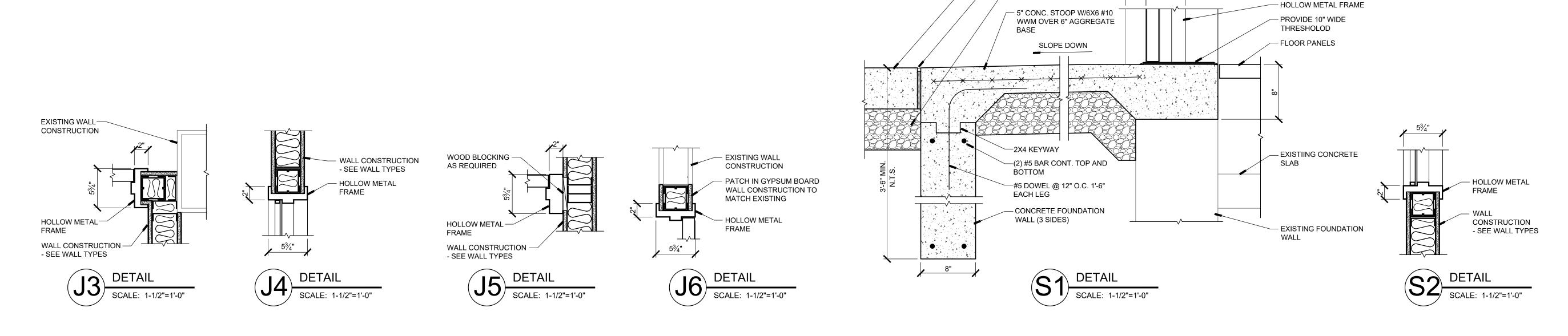


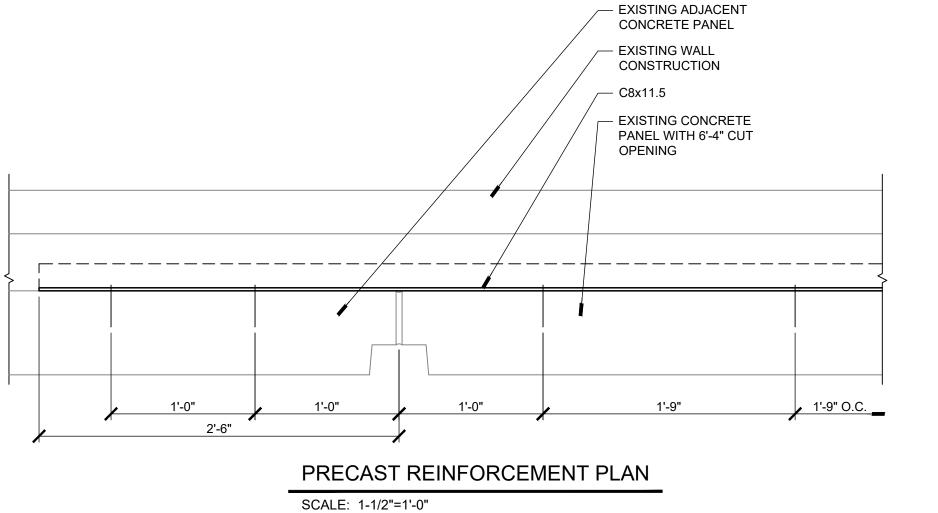












PRECAST REINFORCEMENT ELEVATION SCALE: 3/4"=1'-0"

-CONCRETE SIDEWALK - SEE CIVIL DRAWINGS — 1/2" EXPANSION MATERIAL

9'-0"
EXISTING CONCRETE PANEL WITH 6'-4" CUT OPENING

WITH SEALANT

-GRANULAR BASE - SEE CIVIL DRAWINGS

APPLICABLE CODES		
	WITH APPLICABLE CODES AND LOCAL AMENDMENTS T NOT LIMITED TO, THE FOLLOWING:	
BUILDING CODE:	IBC 2015 EDITION	
PLUMBING CODE:	IL PLUMBING CODE 2014 EDITION	
FIRE CODE:	IFC 2015 EDITION	
MECHANICAL CODE:	IMC 2015 EDITION	
ELECTRICAL CODE:	NFPA 70 2014 EDITION	
LIFE SAFETY CODE:	NFPA 101 2015 EDITION	
ENERGY CONSERVATION CODE:	IECC 2018	
HEALTH DEPARTMENT CODE:	CURRENT EDITION	
LOCAL BUILDING CODE:	CURRENT EDITION	

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

	CONTRACTOR ABBREVIATION KEY		
ABBR:	ABBR: DESCRIPTION:		
A.C.	ASBESTOS ABATEMENT CONTRACTOR		
C.M.	CONSTRUCTION MANAGER		
E.C.	ELECTRICAL CONTRACTOR		
F.P.C.	FIRE PROTECTION CONTRACTOR		
G.C.	GENERAL CONTRACTOR		
M.C.	MECHANICAL CONTRACTOR		
P.C.	PLUMBING CONTRACTOR		
T.C.	TECHNOLOGY CONTRACTOR		
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR		

CONTA	CONTACT PERSONS:	
DESCRIPTION:	PERSON:	
PROJECT MANAGER	BRANDON PIERSON	
MECHANICAL	DREW MINAS	
ELECTRICAL	JEREMY VETTING	
TECHNOLOGY	ALAN SWANSON	

FIRE / SMOKE BARRIER DESIGNATIONS

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

ALL FLOOR AND ROOF CEILING ASSEMBLIES SHALL BE DESIGNATED AS 1 HOUR FIRE BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS.

1 HOUR FIRE WALL	

	MECHANICAL SYMBOL LIST		
	NOT ALL SYMBOLS MAY APPLY.		
SYMBOL:	DESCRIPTION:		
——DPP——	DRAIN		
——LIQ——	REFRIGERANT LIQUID		
SUC	REFRIGERANT SUCTION		
sv	SAFETY RELIEF VENT		
 3	PIPE CAP		
	PIPE DOWN		
	PIPE UP OR UP/DOWN		
_	DIRECTION OF FLOW IN PIPE		
	UNION/FLANGE		
——⋈——	SHUTOFF VALVE NORMALLY OPEN		
——₩——	CONTROL VALVE (TWO-WAY)		
	DIRECTION OF AIR FLOW		
	FLEXIBLE DUCT		
	MANUAL VOLUME DAMPER		
	DUCT CAP		
	DUCT DOWN		
	DUCT UP		
	SUPPLY/OUTSIDE AIR DUCT SECTION		
	RETURN AIR DUCT SECTION		
	EXHAUST/RELIEF AIR DUCT SECTION		
<u>SD-1</u> 6/115	AIR TERMINAL PROPERTIES SYMBOL NECK SIZE/CFM		
[###]	TERMINAL AIR BOX (REFER TO SCHEDULE)		
* ###	DUAL DUCT TERMINAL AIR BOX (REFER TO SCHEDULE)		
	FAN POWERED TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)		
Θ	HUMIDISTAT SENSOR		
\bigcirc	THERMOSTAT/SENSOR		

	HVAC ABBREVIATION KEY
ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
CO	CLEANOUT
DN	DOWN
EA	EXHAUST/RELIEF AIR
FD	FIRE DAMPER
FSD	FIRE/SMOKE DAMPER
MA	MIXED AIR
MV	MIXING VALVE
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
OA	OUTSIDE AIR
PS	PRESSURE SWITCH
RA	RETURN AIR
SA	SUPPLY AIR
SCCR	SHORT CIRCUIT CURRENT RATING
SD	SMOKE DAMPER
TAB	TERMINAL AIR BOX
TYP	TYPICAL

PIPE INSULATION SCHEDULE (HVAC)

PIPE SYSTEM

SYMBOL

3 PIPING - REFRIGERANT

HG REFRIGERANT HOT GAS

SUC REFRIGERANT SUCTION

LIQ REFRIGERANT LIQUID

. REFER TO THE SPECIFICATIONS FOR TYPE DESCRIPTIONS AND JACKETING REQUIREMENTS.

. TYPE G 4" SHALL BE INSTALLED IN TWO (2) 2" LAYERS WITH STAGGERED SEAMS.

TYPE A INSULATION IS NOT ALLOWED IN NON-AIR CONDITIONED SPACES, SUCH AS MECHANICAL ROOMS, EXTERIOR, ATTICS, ETC. . TYPE B INSULATION GREATER THAN 1" THICK SHALL BE INSTALLED USING MULTIPLE LAYERS OF 3/4" OR 1" WITH STAGGERED SEAMS.

. DIRECT BUIRED PIPING SHALL ONLY USE TYPE C OR TYPE E. REDUCTION IN THICKNESS FOR DIRECT BURED PIPING IS ALLOWED PER ASHRAE / IECC AS APPLICABLE.

'A (GlsFbr), B (Elasto), C (CelGla)

A (GlsFbr), B (Elasto), C (CelGla)

A (GlsFbr), B (Elasto), C (CelGla)

INSULATION TYPE

. PROVIDE RIGID INSERT AT HANGERS, EITHER PRE-MANUFACTURED COUPLINGS (REFER TO PIPE HANGER AND SUPPORTS SPECIFICATIONS) OR TYPE C, D, OR E INSULATION. SEE SPEC. FOR MORE DETAILS.

INSULATION THICKNESS PER NOMINAL

1/2"

PIPE OR TUBE SIZE

< 1" 1" TO < 1.5" | 1.5" TO < 4" |

. TYPE E IS NOT ALLOWED IN RETURN AIR PLENUMS, UNLESS LISTED AND LABELED AS 25/50 RATED PER ASTM E84/UL723

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, TEMPERATURE CONTROL AND PIPING.

- 1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD
- SURVEYS. EXISTING BUILDING DOCUMENTS. AND STAFF, VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
- 2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK. 3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD
- 4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE CONSTRUCTION MANAGER PRIOR TO BIDDING IF OTHER UTILITIES ARE
- REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK. 5. EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH THEIR WORK.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
- 7. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL
- SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT
- 9. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
- 10. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
- 11. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.
- 12. PROPERLY RECLAIM AND DISPOSE OF ALL REFRIGERANT IN REMOVED EQUIPMENT/ REFRIGERANT PIPING. RECLAIMED REFRIGERANT SHALL HAVE DOCUMENTATION AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

MECHANICAL DESIGN CONDITIONS:

BASED ON WEATHER DATA FOR: ROCKFORD, II **DESIGN CONDITIONS:** SUMMER: 95°F DRY BULB, 80°F WET BULB -30°F DRY BULB WINTER:

TYPICAL ROOM SETPOINTS:

SUMMER DESIGN: 75°F DRY BULB, 44% RELATIVE HUMIDITY WINTER DESIGN: 75°F DRY BULB, 44% RELATIVE HUMIDITY

REFER TO CONTROL DIAGRAMS FOR ROOM SPECIFICS.

	MECHANICAL SHEET INDEX
M000	MECHANICAL COVERSHEET
M101	LEVEL 01 DEMOLITION PLAN - HVAC
M102	ROOF DEMOLITION - HVAC
M201	LEVEL 01 PLAN - HVAC
M202	ROOF - HVAC
M400	MECHANICAL DETAILS
M401	MECHANICAL DETAILS
M500	MECHANICAL SCHEDULES
M600	MECHANICAL CONTROLS
GRAND TOTAL:	9

NOTES

PIPING GENERAL NOTES:

- 1. THE SIZE OF BRANCH PIPING TO TERMINAL HEATING DEVICES AND COILS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
- 2. PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN.
- 3. INSTALL ALL REFRIGERANT LIQUID AND SUCTION PIPING SIZED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS.
 - 4. REFER TO MANUFACTURER INSTALLATION DRAWINGS FOR REFRIGERANT PIPING TRAPPING REQUIREMENTS.

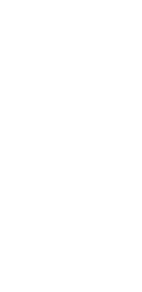
VENTILATION GENERAL NOTES:

- 1. UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO A TERMINAL AIR BOX (TAB) SHALL MATCH THE INLET SIZE UNLESS THE BRANCH IS GREATER THAN 6 FEET IN LENGTH, IN WHICH CASE THE BRANCH DUCT SHALL BE SIZED AT A PRESSURE DROP OF 0.07" W.C. PER 100' OF DUCTWORK.
- 2. UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO AN AIR TERMINAL SHALL MATCH THE INLET SIZE. 3. ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO
- EACH OTHER.
- 4. EXISTING AIR INLET AND OUTLET CFM SHOWN ON DRAWINGS ARE FROM EXISTING
- DRAWINGS, AND ARE FOR REFERENCE ONLY.
- 5. CONTRACTOR MAY REUSE PORTIONS OF EXISTING DUCT PROVIDED SIZES AND PRESSURE CLASSES ARE CORRECT, DUCT IS THOROUGHLY CLEANED AND FREE OF DEFECTS, AND ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS ARE SEALED AS SPECIFIED FOR NEW DUCTWORK.

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, TEMPERATURE CONTROL AND PIPING.

- 1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT
- CATALOG AND MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESCRIPTION OF MATERIAL SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL NUMBER. THE FIRST MANUFACTURER SCHEDULED IS THE BASIS OF DESIGN.
- 3. DETERMINATION OF QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED SHALL BE MADE BY THE CONTRACTOR FROM THE DOCUMENTS. WHERE MATERIAL AND/OR QUANTITY DISCREPANCIES ARISE BETWEEN DRAWINGS, SCHEDULES AND/OR SPECIFICATIONS, THE HIGHER QUALITY/ GREATER NUMBER SHALL GOVERN.
- 4. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
- COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
- REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER 7. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO
- COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR
- 8. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF
- 9. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL. AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS. 10. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS,
- FLOORS, CEILINGS, AND ROOFS, THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND
- 11. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS
- PANELS PRIOR TO BIDDING 12. SEAL ALL WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH ROOF SHALL BE SEALED AIRTIGHT WITH
- WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE. 13. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL. PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS
- 14. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT. 15. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT
- MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
- 16. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES. 17. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
- 18. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED
- ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC. 19. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO METAL ROOF DECKING (LIMITATION NOT REQUIRED WITH CONCRETE ON METAL DECK). THIS 25 LBS. LOAD AND 2'-0" SPACING INCLUDE ADJACENT ELECTRICAL AND ARCHITECTURAL ITEMS HANGING FROM DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING OFF STEEL FRAMING SHALL BE ADDED. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE



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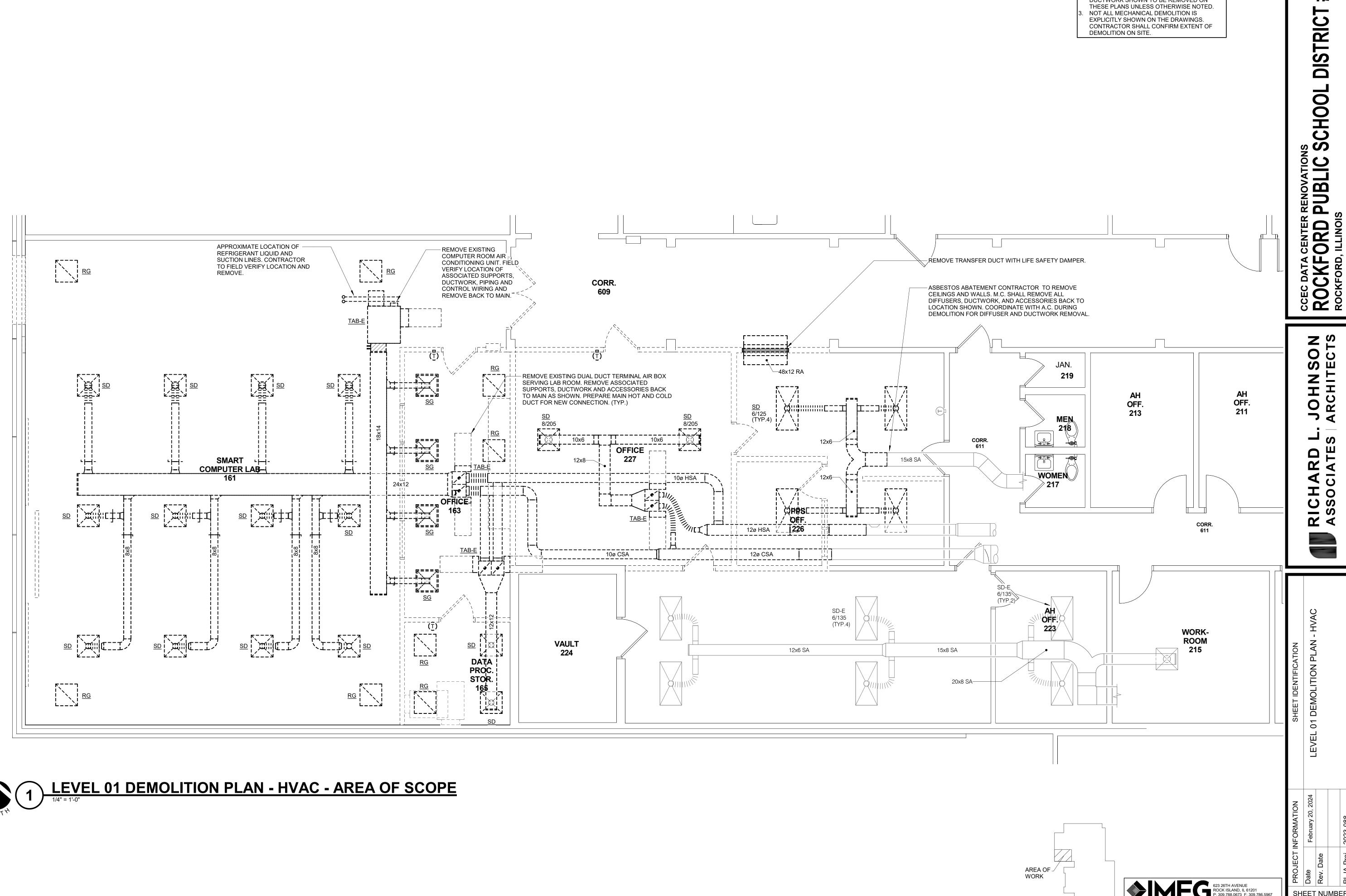
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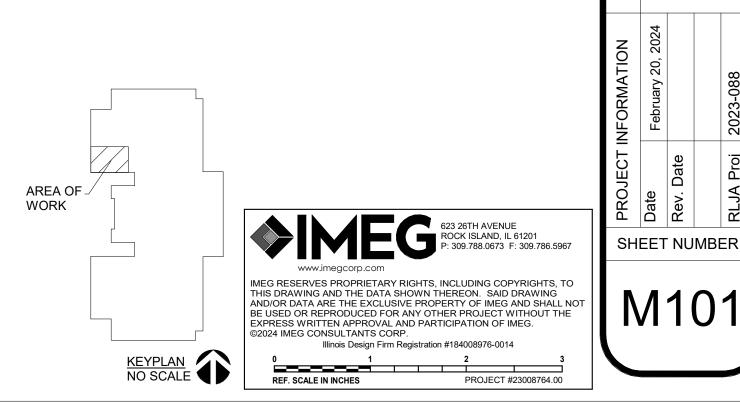
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SHEET NOTES:

AND GENERAL NOTES

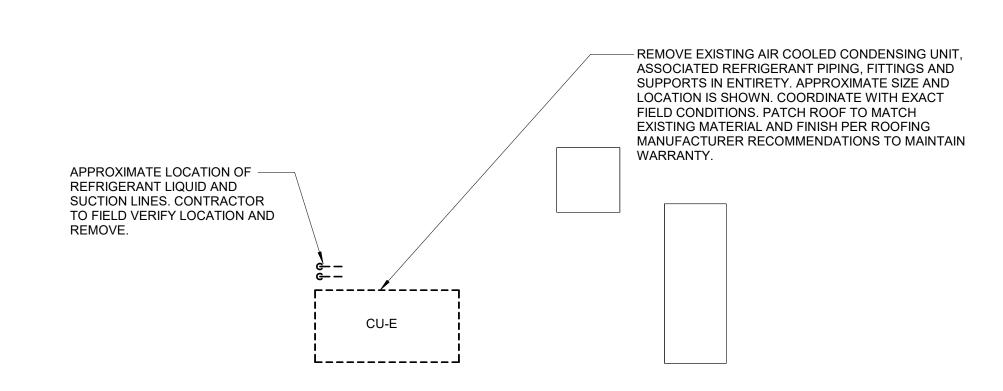
DEMOLITION ON SITE.

REFER TO M000 - MECHANICAL COVERSHEET FOR VENTILATION SYMBOLS, ABBREVIATIONS,

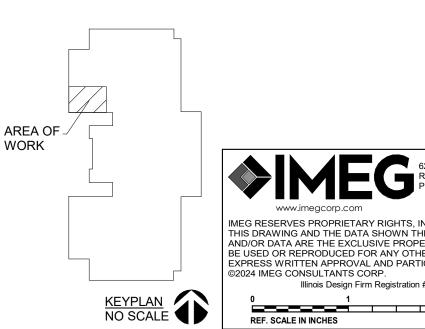
REMOVE ALL EXISTING HANGERS, INSULATION, DAMPERS, AND ACCESSORIES ASSOCIATED

THESE PLANS UNLESS OTHERWISE NOTED. NOT ALL MECHANICAL DEMOLITION IS EXPLICITLY SHOWN ON THE DRAWINGS. CONTRACTOR SHALL CONFIRM EXTENT OF

WITH MECHANICAL EQUIPMENT AND DUCTWORK SHOWN TO BE REMOVED ON #202







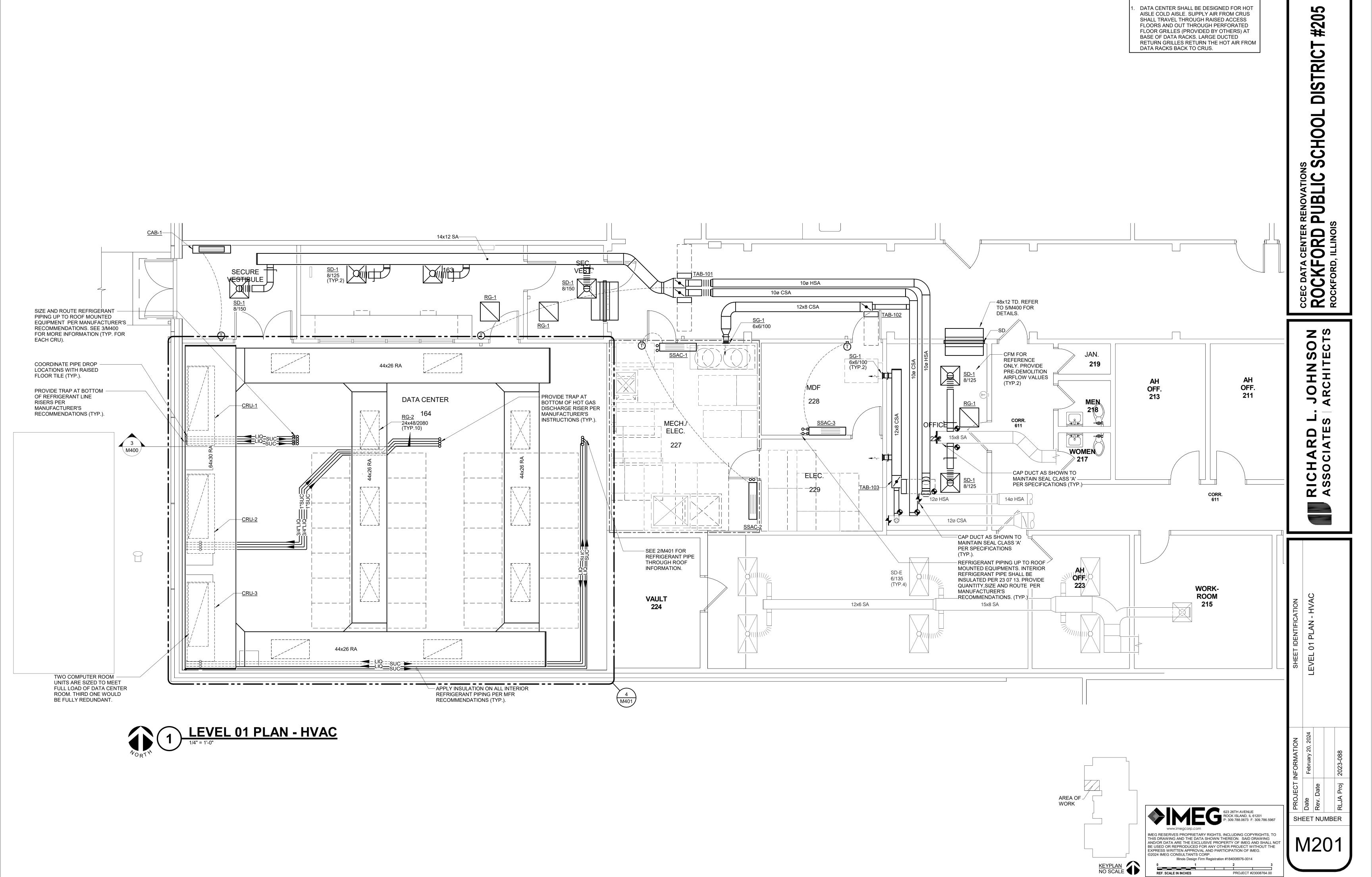
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	w.imegcorp.com	_	
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JOHN SON ARCHITECTS RICHARD ASSOCIATES

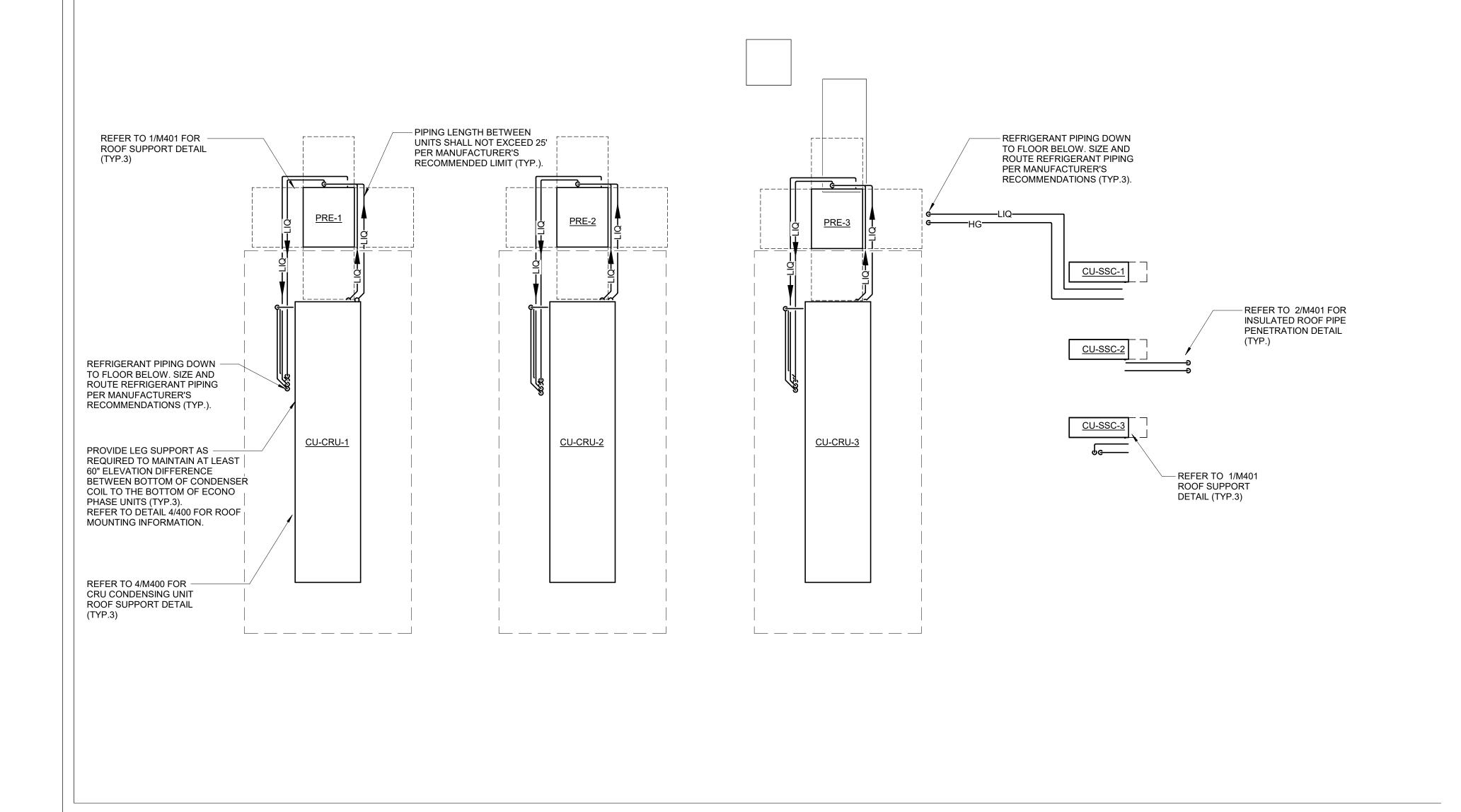
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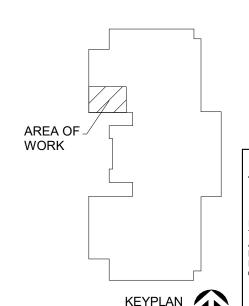
DISTRICT

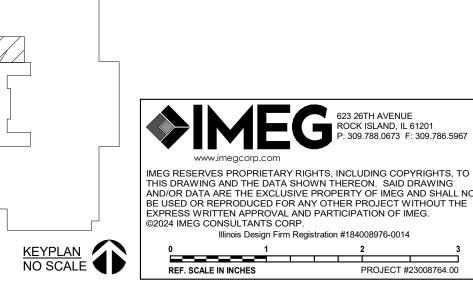
CCEC DATA CENTER RENOVATIONS
ROCKFORD, ILLINOIS



SHEET NOTES:







		INFORMATION	February 20, 20			2023-088
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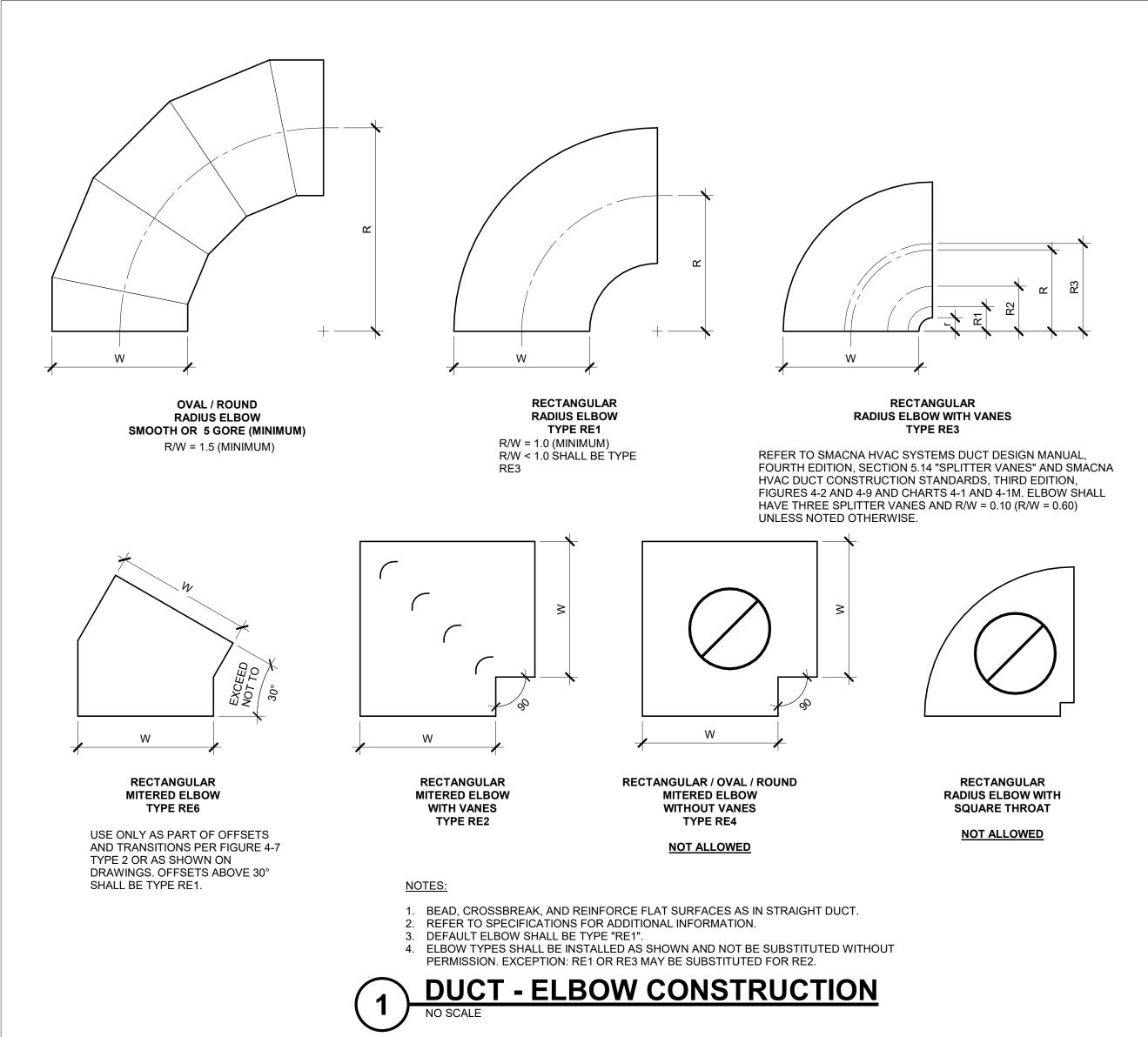
CCEC DATA CENTER RENOVATIONS
ROCKFORD, ILLINOIS

JOHN SON ARCHITECTS

HA

RICI ASS

ROOF - HVAC
ROOF - HVAC 1/4" = 1'-0"



- RESTRAINED VIBRATION ISOLATORS.

- LAG SCREW ISOLATOR

INTO WOOD NAILER

COUNTER FLASHING.

CURB TO EXTEND 12"

ROOF SUPPORT - EQUIPMENT

RAIL W/ VIBRATION ISOLATION

PREFAB CURB WITH NAILER.

BEYOND UNIT ON BOTH ENDS.

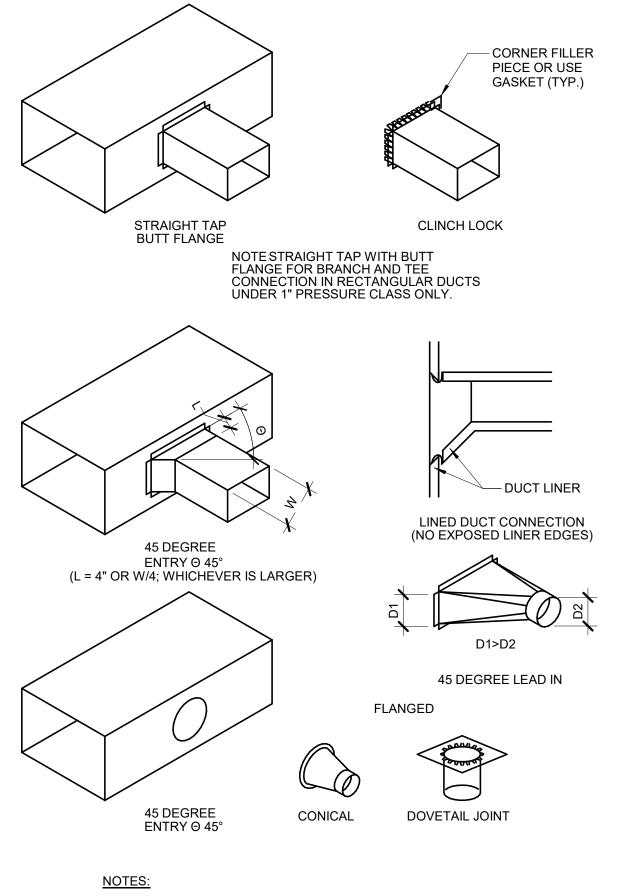
FRAMING, ROOF, & ROOFING

BY GENERAL CONTRACTOR.

LEG OF CONDENSING UNIT.

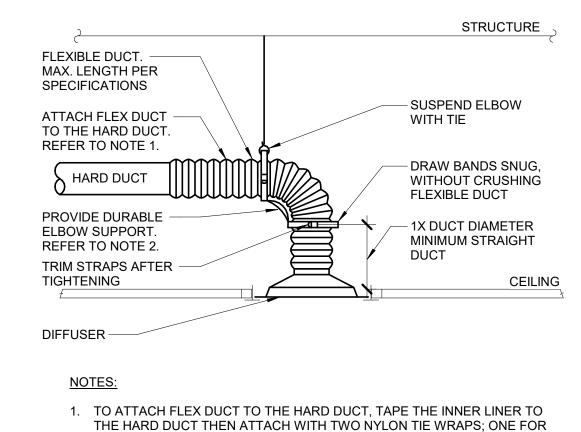
CURB HEIGHT 12"

ABOVE ROOF



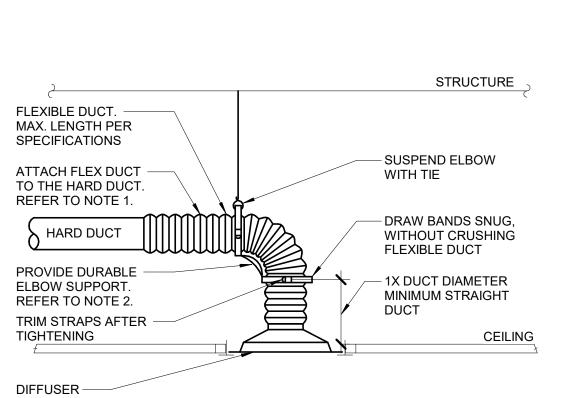
- DO NOT USE CONNECTIONS WITH SCOOPS.
- 2. FIT ALL CONNECTIONS TO AVOID VISIBLE OPENINGS AND SECURE THEM SUITABLY FOR THE PRESSURE CLASS.
- 3. ADDITIONAL MECHANICAL FASTENERS ARE REQUIRED FOR

DUCT - BRANCH CONNECTIONS NO SCALE



- THE INNER LINER AND ONE FOR THE OUTER SHELL. FOLD THE OUTER
- 2. DURABLE ELBOW SUPPORT ACCEPTABLE MANUFACTURER AND MODEL HART AND COOLEY - SMARTFLOW, THERMAFLEX - FLEXFLOW, TITUS -FLEXRIGHT, OR APPROVED EQUAL.

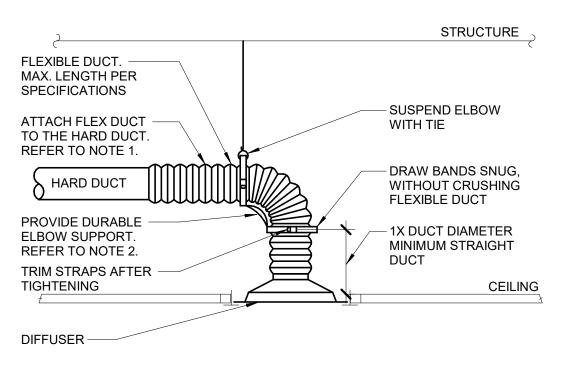
DIFFUSER CONNECTION DETAIL (W/ RADIUS FORMING ELBOW)



- SHELL INSIDE ITSELF SO IT HAS NEAT EDGES PRIOR TO TIE WRAPPING



4"W.G. AND OVER. 4. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.





- CEILING

– WALL

FLOOR OR ROOF

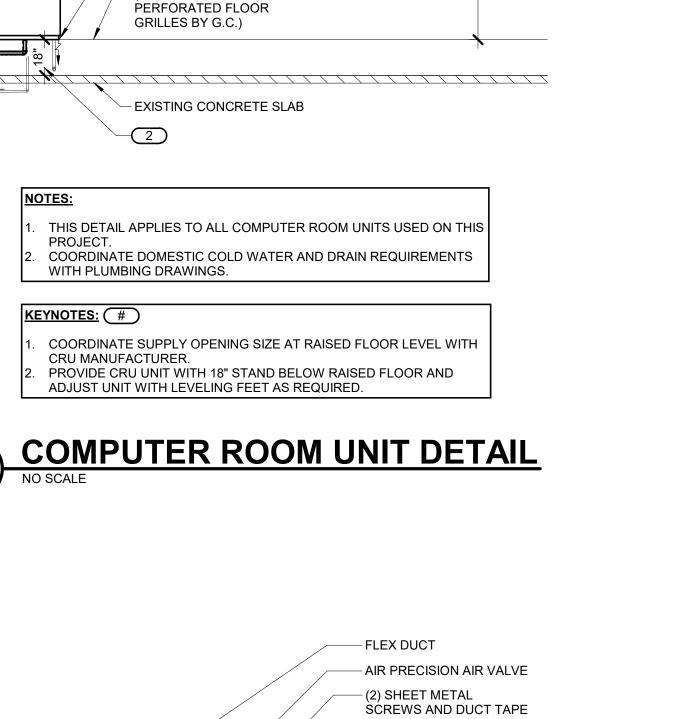


REFER TO DRAWING -FOR SIZE

DUCT LINER (REFER TO -

SPECIFICATION SECTION

23 31 00 - DUCTWORK)



- 2" DUCT COLLAR

LINED TRANSITION DUCT SIZE

PIECE

TERMINAL AIR BOX - DUAL DUCT

TO DIFFUSER -

WITH DAMPER

-ROOF INFORMATION.

- CEILING (BY G.C.)

MANUFACTURER

INSTALLATION MANUAL 5

FOR TRAP INTERVALS.

- EQUIPMENT RAIL

SEE 4/M400 FOR

PROVIDE 60" LEGS. INSTALL LEGS AND CROSS BRACING

-25x80 RA

KEYNOTES: #

DUCT TAPE AND NYLON DRAW

MANUFACTURER'S INSTRUCTION

BAND PER

CRU

26x44 RA

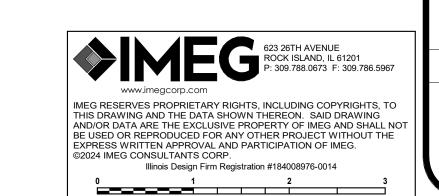
- RAISED ACCESS FLOOR

64x30 RA-

AS REQUIRED PER

MANUFACTURER'S

RECOMMENDATIONS.

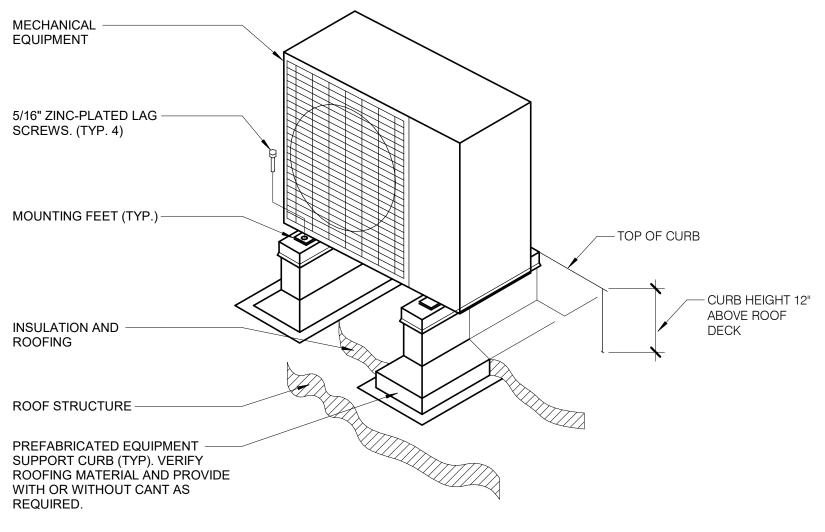


TURNING VANES

DIFFUSER

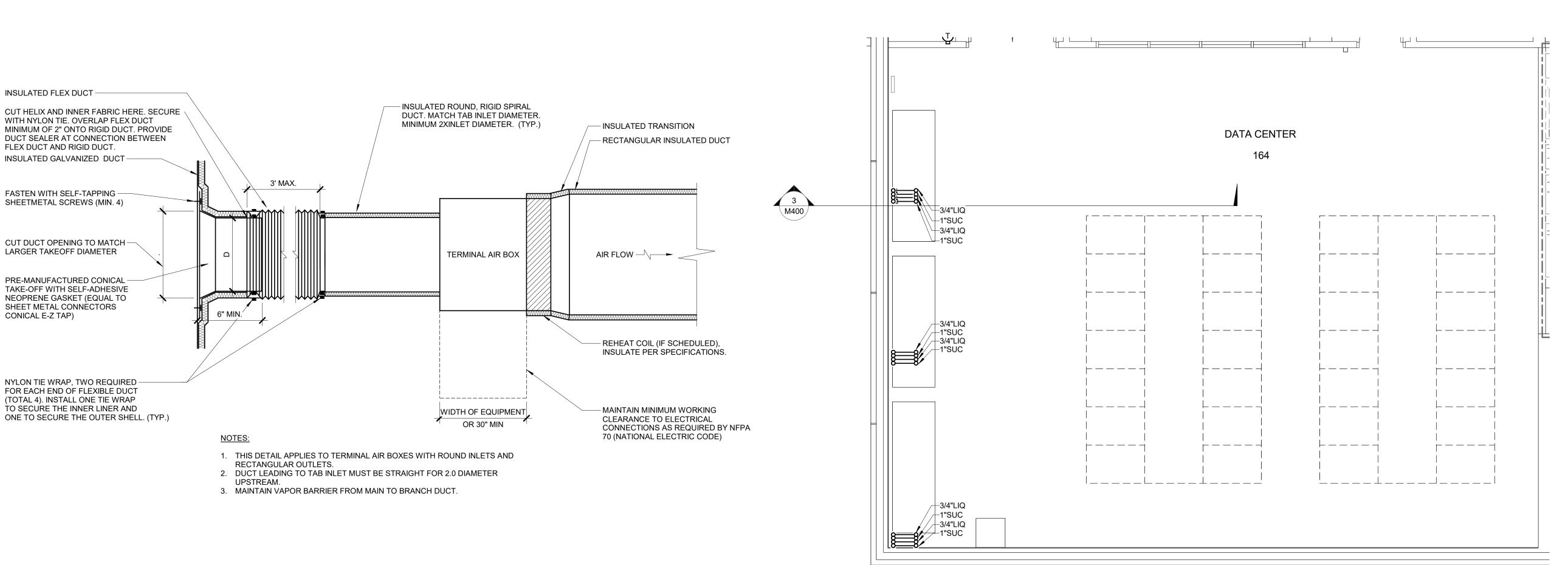
- MINIMUM (1) ELBOW AHEAD OF FIRST

SHEET NUMBER



VERIFY DIAMETER OF ANCHOR BOLT REQUIRED TO FIT WITHIN MOUNTING FEET ANCHOR HOLES.

1 ROOF SUPPORT - EQUIPMENT RAIL NO SCALE



TERMINAL AIR BOX - SINGLE DUCT - WRAPPED

NO SCALE

DATA CENTER ENLARGED PLAN - BELOW RAISED FLOOR - MECHANICAL

1/4" = 1'-0"

WATER CUTOFF SEALANT

– PRE-MOLDED

PIPE SEAL.

- SPLICING CEMENT

- EDPM MEMBRANE

- CONCRETE ROOF DECK

- LAP SEALANT

STAINLESS STEEL BAND CLAMP

MEMBRANE -

INSULATION

METAL ROOF DECK-

NOTES:

1. PIPE SEAL AND CEMENT TO MATCH ROOFING SUPPLIER'S

ROOF PENETRATION - INSULATED COLD PIPE - MEMBRANE ROOF
NO SCALE

REQUIREMENTS.

2. FOR PIPES WITH 1/2" TO 6 1/2" OUTSIDE DIAMETERS.

3. FOR PIPING 120' OR LESS.



COMPUTER ROOM UNIT SCHEDULE - DIRECT EXPANSION

1.INCLUDE NETWORK SWITCH FOR UNIT-TO-UNIT NETWORKING (LEAD/LAG OPERATION). 2.REFRIGERANT PIPE SIZING BY CRU MANUFACTURER. PIPE PROVIDED BY MECHANICAL CONTRACTOR.

3.UNIT SHALL BE DOWNFLOW WITH BOTTOM DISCHARGE (FACTORY CUT) AND TOP RETURN.
4.COMPRESSORS AND FANS SHALL MODULATE WITH FACTORY SUPPLIED SENSOR AND RACK SENSORS INSTALLED BY M.C.

5.PROVIDE UNIT WITH CONDENSATE PUMP INTEGRAL TO UNIT.

6.PROVIDE UNIT WITH VAPURE PRE-MIXED HARD WATER TREATMENT KIT OR EQUIVALENT.

17.PROVIDE U	JNIT WITH 18" LEC	3 STANDS BELO\	<i>N</i> RAISED FLOO	R AND ADJUST I	JNIT WITH LEVE	LING FEET AS REQUIRED.	

						EA	ΛT		ИВН	HEATIN	G COIL	HUMIDIFIER			El	LECTRICAL						ELECTRICAL					
			EXT. S.P. IN.	REFRIGERAN	# OF								CAPACITY									DISCO	NNECT	CONTROLLER/ STARTER			
TAG NAME	AREA SERVED	CFM	W.C.	T TYPE	CIRCUITS	DB °F	WB °F	TOTAL	SENSIBLE	TYPE	MBH	TYPE	LB./HR	FILTER TYPE	HP (NOTE E)	VOLTAGE	PHASES	SCCR	FLA	MCA	MOCP	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	MANUFACTURER	MODEL	REMARKS
CRU-1	DATA CENTER	10400	0.20	R410A	2	75.0	61.0	291	247	ELEC.	51.2	INFRARED	22	MERV 8	4.2	460	3	65,000 A	61	66	80	MFR	MFR	I-COM	LIEBERT	DA085	NOTES 1-8
CRU-2	DATA CENTER	10400	0.20	R410A	2	75.0	61.0	291	247	ELEC.	51.2	INFRARED	22	MERV 8	4.2	460	3	65,000 A	61	66	80	MFR	MFR	I-COM	LIEBERT	DA085	NOTES 1-8
CRU-3	DATA CENTER	10400	0.20	R410A	2	75.0	61.0	291	247	ELEC.	51.2	INFRARED	22	MERV 8	4.2	460	3	65,000 A	61	66	80	MFR	MFR	I-COM	LIEBERT	DA085	NOTES 1-8.

SCHEDULE GENERAL NOTES:

A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND INSTALLED BY: MFR = MANUFACTURER

EC = ELECTRICAL CONTRACTOR. MC = FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.

B. DISCONNECT TYPE: NF = NON-FUSED

C. CONTROLLER STARTER TYPE: FV = FULL VOLTAGE

E. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAME PLATE RATING.

F. MUST BE WITHIN +/- 10% OF SCHEDULED RPM.

CONDENSING UNIT SCHEDULE

I.CONDENSER CONTROL BOARD TIES TO INDOOR CRU I-COM CONTROLLER TO MODULATE FANS.

2.PROVIDE CAN-BUS CABLE AND 2 WIRE CONNECTION TO REMOTE SHUTDOWN AND 2 WIRE TO COMMON ALARM.
3.PROVIDE WITH WYE POWER CONNECTION.

4.FACTORY PROVIDED SURGE PROTECTOR TO PROTECT CONDENSER UNIT CONTROL BOARDS.
5.PROVIDE UNIT WITH MANUFACTURER'S 60" TALL LEGS OPTION TO ALLOW FOR PROPER REFRIGERANT FLOW TO PUMPED REFRIGERANT ECONOMIZER.

6.PROVIDE UNIT WITH ULTRA-LOW AMBIENT KIT OPTION.

												E	LECTRICAL	-					
														DISCO	NNECT	CONTROLLER/ STARTER			
		NOMINAL		AMBIENT	MIN. AMBIENT	NUMBER OF	NUMBER		PHASE						TYPE (NOTE		MANUFACTUR		
TAG NAME	AREA SERVED	DESIGN TONS	REFRIGERANT	TEMP °F	TEMP. °F	CIRCUITS	OF FANS	VOLTAGE	S	KW	FLA	MCA	MOCP	BY (NOTE A)	B)	BY	ER	MODEL	REMARKS
CU-CRU-1	CRU-1	25	R410A	95.0	-30.0	2	4	460	3		5.6	6	15	MFR	NF	NOTE 1	LIEBERT	MCM160	NOTES 2-6
CU-CRU-2	CRU-2	25	R410A	95.0	-30.0	2	4	460	3		5.6	6	15	MFR	NF	NOTE 1	LIEBERT	MCM160	NOTES 2-6
CU-CRU-3	CRU-3	25	R410A	95.0	-30.0	2	4	460	3		5.6	6	15	MFR	NF	NOTE 1	LIEBERT	MCM160	NOTES 2-6

AIR TERMINAL SCHEDULE

1.CONTRACTOR SHALL DETERMINE PROPER BORDER TYPE TO MATCH CEILING/WALL CONSTRUCTION.

2.REFER TO DRAWINGS FOR NECK SIZE. ALL BRANCH DUCTWORK TO AIR TERMINALS SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.

TAG NAME	FACE SIZE (IN.) (NOTE 2)	TYPE	BORDER (NOTE 1)	MATERIAL	FINISH	VOLUME DAMPER	MANUFACTURER	MODEL	NOTES
RG-1	24x24	PERFORATED	LAY-IN	STEEL	WHITE	NO	TITUS	PXP	PLENUM RETURN
RG-2	24x48	PERFORATED	LAY-IN	STEEL	WHITE	NO	TITUS	PXP	
SD-1	24x24	PLAQUE	LAY-IN	STEEL	WHITE	NO	TITUS	OMNI	DUCTED SUPPLY
SG-1	SEE DWG.	DOUBLE DEFLECTION	SURFACE MOUNT	STEEL	WHITE	YES	TITUS	300	LONG FRONT BLADES

PUMPED REFRIGERANT ECONOMIZER UNIT SCHEDULE

1.PUMPED REFRIGERANT ECONOMIZER CONTROL BOARD SHALL TIE TO CONDENSER UNIT CONTROLLER TO ACTIVATE ECONOMIZER MODE AND CYCLE PUMPS.

2.UNIT REQUIRES CAN-BUS CABLE TO CU. 3.PRE-CONTROL BOARD TIES TO INDOOR CRU I-COM CONTROLLER.

										ELECT	RICAL					
		NOMINAL			NUMBER		PHASE				DISCO	ONNECT	CONTROLLER/ STARTER			
TAG NAME	SERVICE	DESIGN TONS	REFRIGERANT	HP	OF PUMPS	VOLTAGE	S	FLA	MCA	MOCP	BY (NOTE A)	TYPE	BY	MANUFACTURER	MODEL	REMARKS
PRE-1	CRU-1 / CU-1	25	R410A	1.6	2	460	3	2.6	3	15	MFR	NF	NOTE 1	LIEBERT	PR085AA6DDH	NOTES 2, 3
PRE-2	CRU-2 / CU-2	25	R410A	1.6	2	460	3	2.6	3	15	MFR	NF	NOTE 1	LIEBERT	PR085AA6DDH	NOTES 2, 3
PRE-3	CRU-3 / CU-3	25	R410A	1.6	2	460	3	2.6	3	15	MFR	NF	NOTE 1	LIEBERT	PR085AA6DDH	NOTES 2, 3

SPLIT SYSTEM UNIT SCHEDULE

1.UNIT SHALL BE PROVIDED WITH INTEGRAL PUMP FOR CONDENSATE REMOVAL. IF NOT PROVIDED INTEGRAL WITH UNIT, CONTRACTOR SHALL PROVIDE LITTLE GIANT VCMX 115V CONDENSATE PUMP OR EQUAL. CONDENSATE PUMP SHALL BE POWERED BY UNIT. IF NOT, MECHANCIAL CONTRACTOR IS RESPONSIBLE TO PROVIDE POWER FOR CONDENSATE PUMP. COORDINATE

2.UNIT SHALL BE PROVIDED WITH ULTRA LOW-AMBIENT KIT OPTION.

					INDOOR U	TIV						OUTD	OOR UNIT							EL	ECTRICAL.						1
			SENSIBLE		MAX	(. DIMENSIO	NS				MAX.	DIMENSION	S (IN.)					FULL LOAD		MOCP	DISCO	ONNECT	CONTROLLER/	STARTER	EMERGENCY		1
TAG NAME	AREA SERVED	CFM	COOLING MBH	HEATING MBH	LENGTH	WIDTH	HEIGHT	WEIGHT	MODEL	SEER	HEIGHT	LENGTH	WIDTH	WEIGHT	MODEL	VOLTAGE	PHASE	AMPS	MCA	AMPS	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	SCCR	POWER	MANUFACTURER	NOTES
SSAC-1	MECH/ELEC ROOM	770	22.8	0	3' -11 1/4"	9 7/16"	1'-1 3/8"	38	FTXS36LVJU	17.9	3'-2 15/16"	1'-0 5/8"	3'-1"	180	RKS36LVJU	208	1	0.4 A	19.5	0	E.C.	NF	MFR	5000	Yes	DAIKIN	NOTES 1,2
SSAC-2	MECH/ELEC ROOM	770	22.8	0	3' -11 1/4"	9 7/16"	1'-1 3/8"	38	FTXS36LVJU	17.9	3'-2 15/16"	1'-0 5/8"	3'-1"	180	RKS36LVJU	208	1	0.4 A	19.5	0	E.C.	NF	MFR	5000	Yes	DAIKIN	NOTES 1,2
SSAC-3	MDF ROOM	770	22.8	0	3' -11 1/4"	9 7/16"	1'-1 3/8"	38	FTXS36LVJU	17.9	3'-2 15/16"	1'-0 5/8"	3'-1"	180	RKS36LVJU	208	1	0.4 A	19.5	0	E.C.	NF	MFR	5000	Yes	DAIKIN	NOTES 1,2

CABINET HEATER SCHEDULE - ELECTRIC

NOTES: 1.COOR	DINATE COLOR SELECTI	ON WITH ARCHITECT.																	
					CAB	SINET (NOTE	≣ 1)	F	AN	HEATING	ELEMENT			ELECTRICAL	L				
														DISCON	NNECT	CONTROLLER/ STARTER			
TAG			NOMINAL	CONTROL						NUMBER OF				BY	TYPE				
NAME	AREA SERVED	CONFIGURATION	CFM	TYPE	HEIGHT	WIDTH	DEPTH	MHP	RPM	STAGE	kW	VOLTAGE	PHASES	(NOTE A)	(NOTE B)	BY (NOTE A)	MANUFACTURER	MODEL	NOTES
CAB-1	SECURE VESTIBULE	VERTICALCABINET	650.0	SCR	29"	48"	10"	0.13	1069	1	7.9	208	1	E.C.	NF	MFR	TRANE	FFJB060	

TERMINAL AIR BOX SCHEDULE - DUAL DUCT

1.NEITHER RADIATED NOR DISCHARGE SOUND LEVELS SHALL EXCEED NC 35 AT 1.5" INLET STATIC PRESSURE WHEN TESTED PER AHRI STANDARD 885-2008 USING 5/8" 20-LB DENSITY MINERAL

FIBER CEILING TILE. 2.TOTAL AIR PRESSURE DROP OF TAB AND REHEAT COIL SHALL NOT EXCEED 0.50" WC.

3.REFER TO CONTROL DRAWINGS FOR DESCRIPTION OF CONTROL TYPE. 4.SENSOR TYPES: 1 - SENSOR ONLY, 2 - SENSOR WITH ADJUSTMENT, 3 - SENSOR WITH OVERRIDE, 4 - SENSOR WITH ADJUSTMENT AND OVERRIDE.

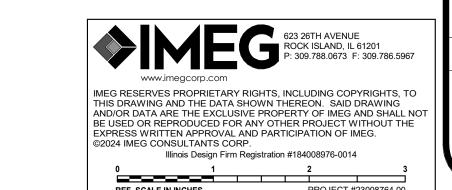
		COOLIN	NG CFM	HEATIN	IG CFM	MIN. INLET SIZE	CONTROL	SENSOR TYPE		MODEL		
TAG NAME	AREA SERVED	MAX.	MIN.	MAX.	MIN.	COOL	TYPE (NOTE 3)	(NOTE 4)	MANUFACTURER	(NOTES 1, 2)	NOTES	l
TAR-101	OFFICE-102	550	300	300	300	8"	TAR-A	2	TITUS	DEDV	NOTES 1 2	1

TERMINAL AIR BOX SCHEDULE - SINGLE DUCT

1.NEITHER RADIATED NOR DISCHARGE SOUND LEVELS SHALL EXCEED NC 35 AT 1.5" INLET STATIC PRESSURE WHEN TESTED PER AHRI STANDARD 885-2008 USING 5/8" 20-LB DENSITY MINERAL FIBER CEILING TILE.

2.REFER TO CONTROL DRAWINGS FOR DESCRIPTION OF CONTROL TYPE. 3.SENSOR TYPES: 1 - SENSOR ONLY, 2 - SENSOR WITH ADJUSTMENT, 3 - SENSOR WITH OVERRIDE, 4 - SENSOR WITH ADJUSTMENT AND OVERRIDE.

İ			CFM							
	TAG NAME	AREA SERVED	COOLING MAX.	MIN.	MIN. INLET SIZE (IN.) DIA.	CONTROL TYPE (NOTE 2)	SENSOR TYPE (NOTE 3)	MANUFACTURER	MODEL (NOTES 1, 2)	NOTES
ı	TAB-102	ELEC ROOM	100	100	6"	TAB-B	2	TITUS	DESV	NOTE 1, COOLING ONLY BOX
	TAB-103	MDF ROOM	200	200	6"	TAB-B	2	TITUS	DESV	NOTE 1, COOLING ONLY BOX



TO/FROM FMCS THROUGH MAU BACNET RETURN AIR TEMPERATURE RETURN AIR HUMIDITY CRU LOSS OF POWER HIGH TEMPERATURE ALARM LOW TEMPERATURE ALARM HIGH HUMIDITY ALARM LOW HUMIDITY ALARM WATER FLOOR SENSOR BACNET INTERFACE TO **FMCS** FLOOR/WALL MOUNTED COMPUTER ROOM UNIT FACTORY MOUNTED CONTROL PANEL WALL MTD SPACE TEMP \\^A SENSOR

CRU SEQUENCE OF OPERATION GENERAL: (CONTROLS PROVIDED WITH UNIT)

THE CRU IS CONTROLLED BY A FACTORY ASSEMBLED AND MOUNTED MICROPROCESSOR BASED CONTROL SYSTEM AND CONNECTED TO THE FACILITY MANAGEMENT CONTROL SYSTEM (FMCS) FOR MONITORING PURPOSES.

THE MICROPROCESSOR CONTROL SYSTEM SHALL MONITOR THE RETURN AIR TEMPERATURE AND HUMIDITY. THE MICROPROCESSOR CONTROL SYSTEM SHALL AUTOMATICALLY HEAT, COOL, REHEAT. HUMIDIFY, AND DEHUMIDIFY AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE AND HUMIDITY

THE SPACE SETPOINTS ARE 68°F (ADJ.) AND 40 PERCENT RELATIVE HUMIDITY (ADJ.).

THE MICROPROCESSOR CONTROL SYSTEM SHALL BE PROGRAMMABLE ON A DAILY BASIS PROGRAM SCHEDULE AND SHALL AUTOMATICALLY RESTART FOLLOWING A POWER FAILURE.

ALARMS, INTERLOCKS, AND SAFETIES AT UNIT:

ACTIVATE AN AUDIBLE AND VISUAL ALARM UPON THE OCCURRENCE OF ANY OF THE FOLLOWING MICROPROCESSOR CONTROL SYSTEM ALARM CONDITIONS:

- HIGH TEMPERATURE LOW TEMPERATURE
- HIGH HUMIDITY LOW HUMIDITY

WATER FLOOR SENSOR

MICROPROCESSOR CONTROL SYSTEM SHALL BE CAPABLE OF DISABLING ANY ALARM IF REQUIRED.

FMCS SEQUENCE OF OPERATION (CONTROLS PROVIDED BY TCC) THE TCC SHALL EXTEND THE FMCS NETWORK TO THE CRU MICROPROCESSOR CONTROLLER PER THE PROTOCOL SPECIFIED IN SECTION 23 09 00. THE FMCS SHALL MONITOR THE OPERATING

ALARMS, INTERLOCKS AND SAFETIES AT FMCS:

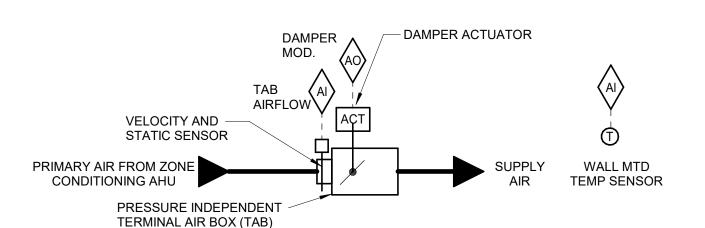
PARAMETERS AND ALARM CONDITIONS INDICATED BY THE CRU.

SEND AN ALARM TO THE FMCS OPERATOR INTERFACE UPON THE OCCURRENCE OF ANY OF THE FOLLOWING MICROPROCESSOR CONTROL SYSTEM ALARM CONDITIONS:

- LOSS OF POWER TO CRU HIGH TEMPERATURE
- LOW TEMPERATURE
- HIGH HUMIDITY LOW HUMIDITY
- WATER FLOOR SENSOR SYSTEM SHUTOFFS

UPON THE RELEASE OF CLEAN AGENT FIRE SUPPRESSION, CRUS SHALL BE DE-ENDERGIZED. UPON SYSTEM SHUTDOWN, AN ALARM SHALL BE SENT TO THE FMCS OPERATOR INTERFACE.

COMPUTER ROOM UNIT CONTROL
NO SCALE



SEQUENCE OF OPERATION:

FMCS TAB CONTROLLER SHALL MODULATE THE TAB DAMPER TO MAINTAIN SPACE TEMPERATURE OF 72°F (ADJ.) WITH 5°F (ADJ.) DEAD BAND BASED ON A SIGNAL FROM A WALL MOUNTED TEMPERATURE SENSOR. SEE DRAWINGS FOR TEMPERATURE SENSOR REQUIREMENTS. SPACES WITH ADJUSTABLE THERMOSTATS WILL ALLOW A +/- 3°F (ADJ.) OFFSET FROM THE DDC SETPOINT AT FULL COOLING, THE TAB SHALL BE OPEN TO MAXIMUM CFM POSITION. UPON A FALL IN SPACE TEMPERATURE, THE TAB SHALL MODULATE CLOSED UNTIL SPACE SETPOINT IS MAINTAINED, OR UNTIL IT REACHES ITS MINIMUM SCHEDULED CFM POSITION PER THE FMCS SHALL UTILIZE OUTPUT FROM ALL TERMINAL AIR BOX POSITIONS TO RESET THE

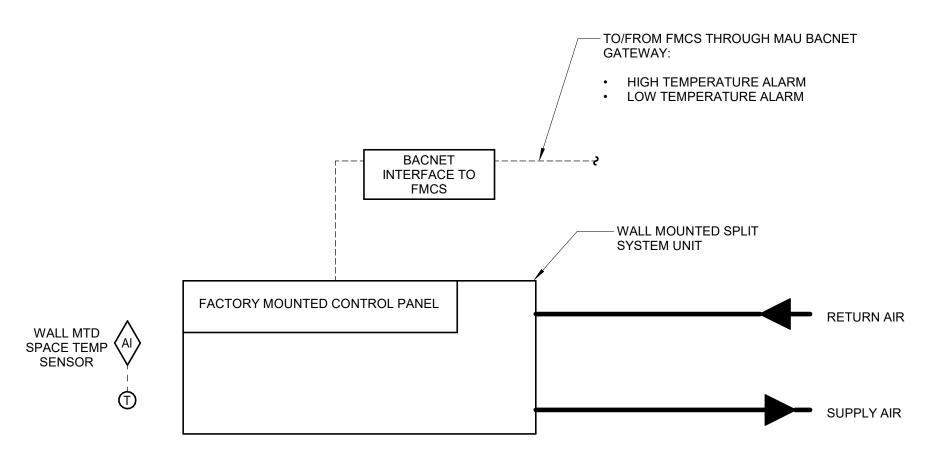
<u> LARMS, INTERLOCKS & SAFETIES:</u>

SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE TEMPERATURE IS MORE THAN

10°F (ADJ.) ABOVE OR BELOW SETPOINT.

SUPPLY DUCT DIFFERENTIAL STATIC PRESSURE.

TAB CONTROL W/ COOLING ONLY

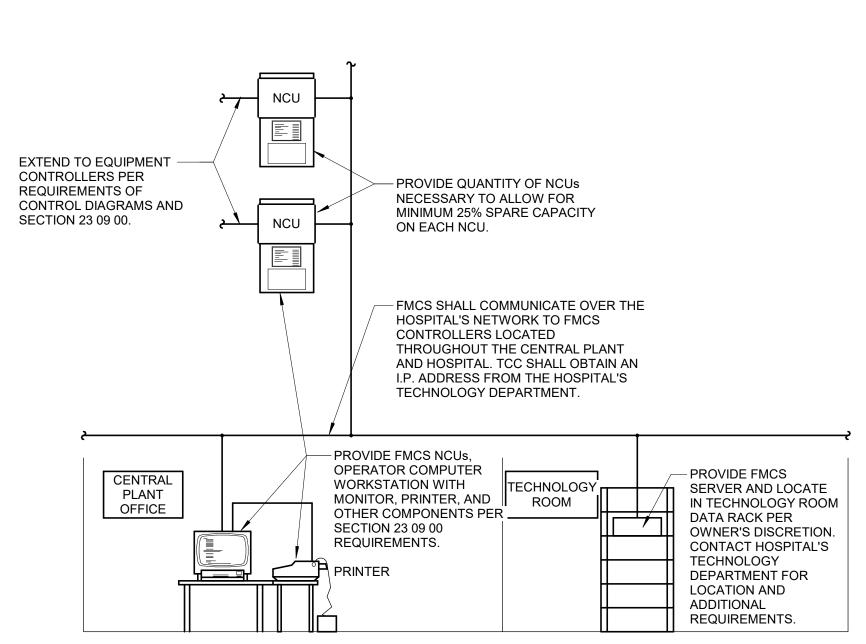


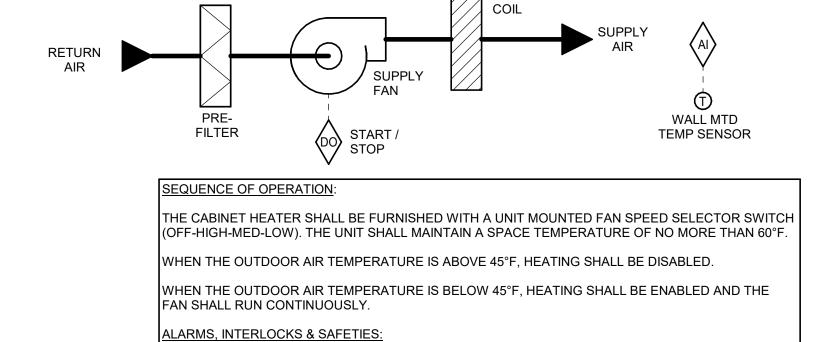
SSAC SEQUENCE OF OPERATION GENERAL: (CONTROLS PROVIDED WITH UNIT) THE SSAC IS CONTROLLED BY A FACTORY ASSEMBLED AND MOUNTED MICROPROCESSOR BASED CONTROL SYSTEM AND CONNECTED TO THE FACILITY MANAGEMENT CONTROL SYSTEM (FMCS) FOR MONITORING PURPOSES. THE MICROPROCESSOR CONTROL SYSTEM SHALL MONITOR THE RETURN AIR TEMPERATURE AND HUMIDITY. THE MICROPROCESSOR CONTROL SYSTEM SHALL AUTOMATICALLY HEAT, COOL, REHEAT HUMIDIFY, AND DEHUMIDIFY AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE AND HUMIDITY SETPOINTS. THE SPACE SETPOINTS ARE 75°F (ADJ.) <u> ALARMS, INTERLOCKS, AND SAFETIES AT UNIT:</u> ACTIVATE AN AUDIBLE AND VISUAL ALARM UPON THE OCCURRENCE OF ANY OF THE FOLLOWING MICROPROCESSOR CONTROL SYSTEM ALARM CONDITIONS: HIGH TEMPERATURE LOW TEMPERATURE MICROPROCESSOR CONTROL SYSTEM SHALL BE CAPABLE OF DISABLING ANY ALARM IF REQUIRED. FMCS SEQUENCE OF OPERATION (CONTROLS PROVIDED BY TCC) THE TCC SHALL EXTEND THE FMCS NETWORK TO THE SSAC MICROPROCESSOR CONTROLLER PER THE PROTOCOL SPECIFIED IN SECTION 23 09 00. THE FMCS SHALL MONITOR THE OPERATING PARAMETERS AND ALARM CONDITIONS INDICATED BY THE SSAC. ALARMS, INTERLOCKS AND SAFETIES AT FMCS: SEND AN ALARM TO THE FMCS OPERATOR INTERFACE UPON THE OCCURRENCE OF ANY OF THE FOLLOWING MICROPROCESSOR CONTROL SYSTEM ALARM CONDITIONS: LOSS OF POWER TO SSAC HIGH TEMPERATURE

SSAC UNIT CONTROL

LOW TEMPERATURE

FMCS NETWORK REQUIREMENTS

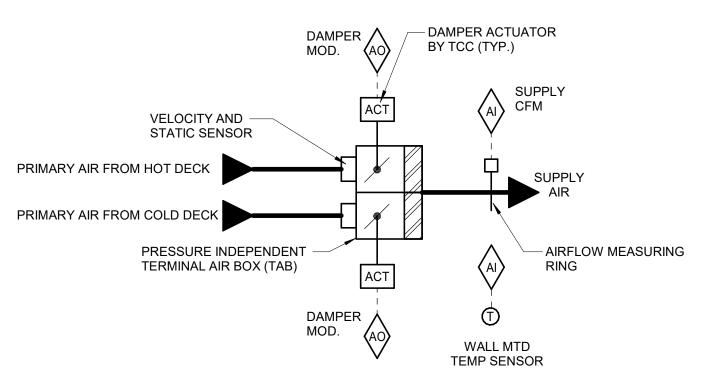




(AO) CAPACITY

CABINET HEATER CONTROL -

SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF SPACE TEMPERATURE FALLS 10°F



SEQUENCE OF OPERATION:

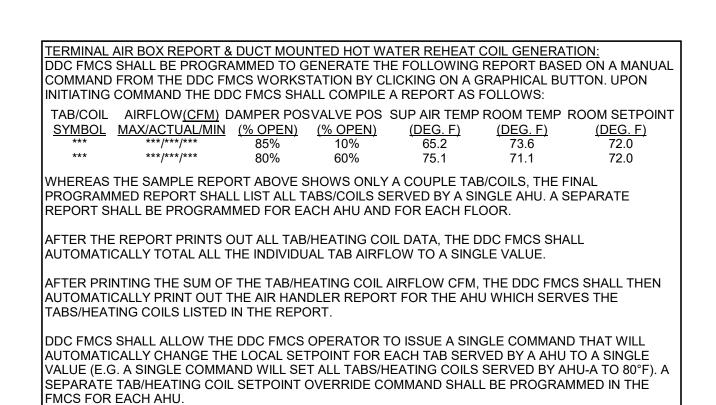
(ADJ.) BELOW SETPOINT.

- FMCS TAB CONTROLLER SHALL MODULATE THE TAB DAMPERS TO MAINTAIN SPACE TEMPERATURE OF 72°F (ADJ.) WITH 2°F (ADJ.) DEAD BAND BASED ON A SIGNAL FROM A WALL MOUNTED TEMPERATURE SENSOR. SEE DRAWINGS FOR TEMPERATURE SENSOR REQUIREMENTS. SPACES WITH ADJUSTABLE THERMOSTATS WILL ALLOW A +/- 3°F (ADJ.) OFFSET FROM THE DDC SETPOINT.
- AT FULL COOLING, THE TAB SHALL BE OPEN TO MAXIMUM CFM POSITION AND HEATING DAMPER UPON A FALL IN SPACE TEMPERATURE, THE TAB SHALL MODULATE THE COOLING DAMPER CLOSED UNTIL SPACE SETPOINT IS MAINTAINED, OR UNTIL IT REACHES ITS MINIMUM SCHEDULED
- CFM POSITION PER THE TAB SCHEDULE. UPON A FURTHER FALL IN SPACE TEMPERATURE THE TAB SHALL MODULATE THE COOLING DAMPER CLOSED AND OPEN THE HEATING DAMPER TO ITS MINIMUM POSITION PER THE TAB
- SCHEDULE. THE HEATING DAMPER SHALL MODULATE OPEN TO ITS MAXIMUM POSITION OR UNTIL THE SPACE
- SETPOINT IS MAINTAINED. THE FMCS SHALL UTILIZE OUTPUT FROM ALL TERMINAL AIR BOX POSITIONS TO RESET THE SUPPLY DUCT DIFFERENTIAL STATIC PRESSURE.

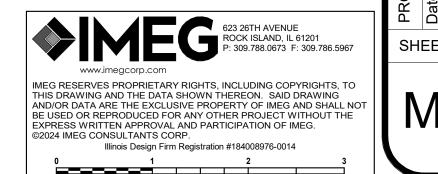
LARMS, INTERLOCKS & SAFETIES:

SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE TEMPERATURE IS MORE THAN 10°F (ADJ.) ABOVE OR BELOW SETPOINT.

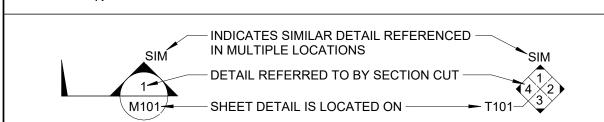
DUAL DUCT TAB CONTROL -







PROJECT #23008764.00



LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)

EXISTING TO BE REMOVED (SHORT DASHED PATTERN) NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)

EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN) EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

FIRE / SMOKE BARRIER DESIGNATIONS

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

ALL FLOOR AND ROOF CEILING ASSEMBLIES SHALL BE DESIGNATED AS 1 HOUR FIRE BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS

1 HOUR FIRE WALL

__._._._._._._

APPLICABLE CODES							
CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:							
BUILDING CODE:	IBC 2015 EDITION						
PLUMBING CODE:	IL PLUMBING CODE 2014 EDITION						
FIRE CODE:	IFC 2015 EDITION						
MECHANICAL CODE:	IMC 2015 EDITION						
ELECTRICAL CODE:	NFPA 70 2014 EDITION						
LIFE SAFETY CODE:	NFPA 101 2015 EDITION						
ENERGY CONSERVATION CODE:	IECC 2018						
HEALTH DEPARTMENT CODE:	CURRENT EDITION						
LOCAL BUILDING CODE:	CURRENT EDITION						

	CONTRACTOR ABBREVIATION KEY						
ABBR:	DESCRIPTION:						
A.C.	ASBESTOS ABATEMENT CONTRACTOR						
C.M.	CONSTRUCTION MANAGER						
E.C.	ELECTRICAL CONTRACTOR						
F.P.C.	FIRE PROTECTION CONTRACTOR						
G.C.	GENERAL CONTRACTOR						
M.C.	MECHANICAL CONTRACTOR						
P.C.	PLUMBING CONTRACTOR						
T.C.	TECHNOLOGY CONTRACTOR						
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR						

CONTACT PERSONS:						
DESCRIPTION:	PERSON:					
PROJECT MANAGER	BRANDON PIERSON					
MECHANICAL	DREW MINAS					
ELECTRICAL	JEREMY VETTING					
TECHNOLOGY	ALAN SWANSON					

ABBR:	DESCRIPTION:
ABV	ABOVE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ASR	ARCHITECTURAL SURFACE RACEWAY
ВС	BELOW COUNTER
С	CONDUIT (BRANCH CIRCUIT OR FEEDER CONTEXT)
CO	CONDUIT AND BOX ROUGH-IN ONLY (ROUGH-IN ONLY)
EG	EQUIPMENT GROUND
EGC	EQUIPMENT GROUNDING CONDUCTOR
EPO	EMERGENCY POWER OFF
HOA	HAND/OFF/AUTO
ITR	IT RACK MOUNTED RECEPTACLE
NC	NORMALLY CLOSED
NEMA#	NEMA RATING
NIC	NOT IN CONTRACTED SCOPE
NO	NORMALLY OPEN
SM	SURFACE MOUNTED
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED

EQUIPMENT ABBREVIATION KEY							
ABBR:	DESCRIPTION:						
FFE	OWNER FURNISHED FIXTURES, FURNITURE, AND EQUIPMENT						
FURN	OWNER FURNITURE						
TCP	TEMPERATURE CONTROLS PANEL						

INSTALLATION TYPE

FOUNDATION.

THE FOLLOWING SCHEDULE SHALL BE ADHERED TO UNLESS THEY CONSTITUTE A VIOLATION OF APPLICABLE CODES OR ARE NOTED OTHERWISE ON THE DRAWINGS. THE INSTALLATION OF RMC CONDUIT WILL BE PERMITTED IN PLACE OF ALL CONDUIT SPECIFIED IN THIS SCHEDULE. REFER TO CONDUIT AND BOXES SPECIFICATION 26 05 33 FOR ADDITIONAL INFORMATION.

PVC

HDPE

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INSTALLATION TIPE	Tuno			CONCRETE ENCASED		1.0.1
FEEDERS: SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS, MOTOR CONTROL CENTERS, ETC.		x				
BRANCH CIRCUITS: LIGHTING, RECEPTACLES, CONTROLS, ETC.		х				
MECHANICAL EQUIPMENT FEEDERS: PUMPS, CHILLERS, AIR HANDLING UNITS, ETC.		х				
FLOOR MOUNTED EQUIPMENT FEEDERS: PUMPS, ETC. (INCLUDE NO MORE THAN 6 FEET OF LFMC TO PUMP)		Х				
CONTROLS (LIGHTING, POWER, BUILDING AUTOMATION, ETC.)		х				
WET AND DAMP LOCATIONS: (CONDUIT, BOXES, FITTINGS, INSTALLED AND EQUIPPED TO PREVENT WATER ENTRY)	х					
INTERIOR LOCATIONS WITH FINSHED CEILING AND WALLS: CONCEALED IN WALLS AND ABOVE FINISHED CEILINGS		Х				
INTERIOR LOCATIONS WITHOUT FINISHED CEILINGS: CONCEALED IN WALL, EXPOSED ABOVE CEILINGS		Х				
EXISTING INTERIOR LOCATIONS WITH FINISHED CEILINGS AND WALLS: CONCEALED IN WALLS AND ABOVE FINISHED CEILING UNLESS OTHERWISE NOTED		х				х
UNDERGROUND / SLABS ON GRADE (IN OR UNDER SLABS ON GRADE)						
WITHIN 5' FROM THE PERIMETER OF THE BUILDING	х					
WITHIN 5' FROM THE PERIMETER OF THE BUILDING WHEN PASSING THROUGH THE PERIMETER OF THE BUILDING FOUNDATION:	х			х		
UNDERGROUND SITE CONDUITS:						
WITHIN 5' FROM THE PERIMETER OF A BUILDING FOUNDATION	х			х		
5' OR GREATER FROM THE PERIMETER OF A BUILDING FOUNDATION			х			
UNDER ROADS, DRIVES, AND VEHICLE TRAVELED WAYS. WHEN HDPE DIRECTIONAL BORING IS ALLOWED: PROVIDE PRESSURIZED GROUT			х		х	
DUCTBANKS (REFER TO DUCTBANK DETAILS WHEN APPLICABLE)						
REINFORCING SHALL CONSIST OF ONE-HALF INCH DEFORMED BARS SPACED 12 INCHES ON CENTER, PARALLELING THE DUCTS ON BOTTOM, WITH ONE-HALF INCH DEFORMED TIE BARS SPACED TWELVE INCHES ON CENTERS.				x		
BARS SHALL OVERLAP 40 DIAMETERS AND SHALL EXTEND 5' BEYOND ROADS, DRIVES, TRAVELED WAYS, ETC.				x		
PROVIDE MINIMUM 3" CONCRETE COVER ON ALL SIDES OF REINFORCING.				x		
ENTIRE DUCTBANK SHALL BE INSTALLED ON PRECAST CONCRETE PAVERS ON 3' CENTERS.				x		
DEFINITIONS:						
CONCRETE ENCASEMENT: CONDUIT WITH A MINIMUM OF 3" THICKNESS BETWEEN THE SURFACE OF THE CONCRETE AND THE NEAREST CONDUIT. CONCRETE TO BE DOWELED INTO THE						

	ELECTRICAL SHEET INDEX					
E000	ELECTRICAL COVERSHEET					
E001	ELECTRICAL SYMBOLS LIST					
E002	ELECTRICAL SYSTEMS COVERSHEET					
E101	LEVEL 01 DEMOLITION PLAN - ELECTRICAL					
E102	ROOF DEMOLITON - ELECTRICAL					
E211	LEVEL 01 PLAN - LIGHTING					
E221	LEVEL 01 PLAN - POWER					
E231	LEVEL 01 PLAN - SYSTEMS					
E232	ROOF - ELECTRICAL					
E400	ELECTRICAL DETAILS					
E401	ELECTRICAL DETAILS					
E402	ELECTRICAL DETAILS					
E500	ELECTRICAL DIAGRAMS					
E600	ELECTRICAL SCHEDULES					
E601	ELECTRICAL SCHEDULES					
E700	ELECTRICAL PANEL SCHEDULES					
E701	ELECTRICAL PANEL SCHEDULES					
GRAND TOTAL: 17						

SUGGESTED MATRIX OF RESPONSIBILITY							
ITEM:	SHOWN ON:	FURNISHED BY:	INSTALLED BY:	NOTES:			
TECHNOLOGY ROUGH-IN, REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION	T-SERIES	E.C.	E.C.	3. 4.			
INFORMATION OUTLET FACEPLATES, JACKS, AND TERMINATIONS	T-SERIES	T.C.	T.C.				
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	T-SERIES	E.C.	E.C.				
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	T.C.	2. 4.			
TELECOMMUNICATION SYSTEMS ROUGH-IN	T-SERIES	E.C.	E.C.	1.			
TELECOMMUNICATION EQUIPMENT, CABLING, AND TERMINATIONS	T-SERIES	T.C.	T.C.				
LINE VOLTAGE POWER (+120V OR GREATER)	E-SERIES	E.C.	E.C.				
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	E.C.	2. 4.			
LINE VOLTAGE POWER FOR DOOR HARDWARE POWER SUPPLIES	ARCH SPEC	E.C.	E.C.				
LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS	T-SERIES	T.C.	T.C.				
CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS (OTHER THAN CONDUIT AND CABLE TRAY)	T-SERIES	T.C.	T.C.	5.			

SUGGESTED MATRIX OF RESPONSIBILITY NOTES

- LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE DRAWINGS. REFER TO THE TECHNOLOGY SYMBOL LIST FOR ADDITIONAL INFORMATION.
- BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ALL ACCEPTABLE
- INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE

UNLESS TRADE RULES DICTATE OTHERWISE.

ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR SHALL BE INCLUDED IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN.

ELECTRICAL GENERAL NOTES:

1. {L###} INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE

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- LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET E600. 2. HALF-SHADED LUMINAIRE OR DEVICE INDICATES LUMINAIRE OR DEVICE HAS INTEGRAL
- 3. REFER TO SHEET E600 FOR LUMINAIRE SCHEDULE.

LUMINAIRE KEY:

F1 = FIXTURE TAG 1 = CIRCUIT NUMBER

a = SWITCH DESIGNATION

"NL" INDICATES LUMINAIRE IS UNSWITCHED FOR NIGHT LIGHT. "SE" INDICATES LUMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM EMERGENCY BATTERY (EXTEND UNSWITCHED

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1/1/a/NL

DEVICE KEY:

DEVICE # = MOUNTING (IF APPLICABLE)
1 = CIRCUIT NUMBER

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS

INFORMATION. EX: A / 1

ELECTRICAL MOUNTING SUBSCRIPT KEY: MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH

CIRCUIT LEG TO BATTERY) UPON LOSS OF POWER.

- MOUNT IN SURFACE RACEWAY SURFACE MOUNTED
- WEATHERPROOF WIRING DEVICE, NEMA 3R WHILE-IN-USE COVER, WR LISTED

ELECTRICAL INSTALLATION NOTES:

- 1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
- 2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH
- 3. EMERGENCY, LEGALLY REQUIRED, OPTIONAL STANDBY BRANCH WIRING FOR FEEDERS AND BRANCH CIRCUITS SHALL BE ROUTED IN SEPARATE RACEWAY, JUNCTION BOXES, PULL BOXES. AND CABINETS. WIRING FOR EACH BRANCH SHALL BE INDEPENDENT FROM OTHER BRANCHES, INCLUDING THE NORMAL BRANCH.
- 4. FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED.
- 5. FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. MOUNT EXTERIOR LOCATED RECEPTACLES WITH WHILE-IN-USE COVERS AT +20" FROM FINISHED GRADE (CENTER DIMENSIONS) TO MAINTAIN INSTALLATION ADA COMPLIANCE.
- ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO 26 05 03 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
- 7. MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION) EXCEPT WHERE OTHERWISE NOTED.
- 8. INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE
- NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE. 9. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES. SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
- 10. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION. THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR FOUIPMENT
- 11. ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR
- SEALED INTO OPENINGS. 13. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND
- 14. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING
- 15. ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION 26 05 53 FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

MOUNTED DEVICES, OTHER THAN SPRINKLERS.

ELECTRICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, FIRE ALARM, AND OTHER LOW VOLTAGE SYSTEMS.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.

2. NOT ALL EXISTING EQUIPMENT, LUMINAIRES, AND CONDUIT ARE SHOWN. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.

3. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS PRIOR TO FABRICATION OF CABLE TRAY, BUSWAY, CONDUIT RACKS, AND OTHER SYSTEMS. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.

4. ELECTRICAL CONTRACTOR SHALL REVIEW EXISTING CONDITIONS TO VERIFY ACCESSIBILITY TO THE AREAS OF THEIR WORK INCLUDING WALLS, FLOOR, CEILINGS, CEILING TILES/GRID, AND ROOF. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE CUTTING, REMOVAL, PATCHING, AND REINSTALLATION OF AFFECTED AREAS ASSOCIATED WITH THEIR WORK BY

COORDINATING WITH THE GENERAL CONTRACTOR OR QUALIFIED CONTRACTOR. WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.



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SHEET NUMBER

Illinois Design Firm Registration #184008976-0014

	ELEC	TRICAL	SYMBOL LIST
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
IBT	<u>IBT</u>	26 05 26	INTERSYSTEM BONDING TERMINATION
E E	<u>ECONN</u>	26 05 33	ELECTRICAL CONNECTION
J	<u>JB</u>	26 05 33	JUNCTION BOX
# T	<u>WW-#</u>	26 05 35	ELECTRICAL WIREWAY w/ DEVICES SHOWN
DEM	<u>DEM</u>	26 09 13	ENERGY METER
fi	<u>EPO</u>	26 09 16 26 32 13	EMERGENCY STOP / POWER OFF (N.C. AND N.O CONTACT)
	PANEL '###'	26 24 16	PANELBOARD - RECESS MOUNT
	PANEL '###'	26 24 16	PANELBOARD - SURFACE MOUNT
	<u>MX-#/MS-#</u>	26 24 19	MANUAL SWITCH / STARTER. REFER TO DISC/STA SCHEDULE
	<u>TR-#</u>	26 22 00	TRANSFORMER. REFER TO TRANSFORMER SCHEDULE
	<u>DS-#/FDS-#</u>	26 28 16	DISCONNECT. REFER TO DISC/STA SCHEDULE
GANN -	GANN-#	26 32 13	GENERATOR ANNUNCIATOR PANEL

	ELECTRICAL SYMBOL LIST										
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:								
#	REC-DUP	26 27 26	DUPLEX RECEPTACLE, 125V								
₩	REC-DUP-WP	26 27 26	DUPLEX GFI WEATHERPROOF RECEPTACLE 125V								
=₩	REC-QUAD	26 27 26	QUAD RECEPTACLE, 125V								

ELECTRICAL SYMBOL LIST											
SYMBOL: TAG: SPEC DESCRIPTION:											
S	<u>SW-1P</u>	26 09 33	SWITCH - SINGLE POLE								
D _D	SW-D-LED	26 09 33	DIMMER - LED								
D _{D3}	SW-D3-LED	26 09 33	DIMMER - LED - 3-WAY								
© _D	SW-OC-D	26 09 33	OCCUPANCY SENSOR - DUAL TECHNOLOGY								

	ELECTRICAL SYMBOL LIST											
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:									
			LINEAR LUMINAIRES									
		TROFFER										
			DOWNLIGHT LUMINAIRE									
	REFER TO LU		INDUSTRIAL LUMINAIRE									
1 2 4	SCHED	ULE	WALL BRACKET LUMINAIRE									
⊗			SINGLE FACE EXIT SIGN									
			DOUBLE FACE EXIT SIGN									
4			EMERGENCY UNIT									

	LUMINAIRE SYMBOL KEY								
SYMBOL:	DESCRIPTION:								
o	NORMAL BRANCH LUMINAIRE								
0	OPTIONAL STAND BY BRANCH LUMINAIRE								
1	EMERGENCY BRANCH LUMINAIRE								

TAG:	DESCRIPTION:	RELATED SPECIFICATION
ATS-#	AUTOMATIC TRANSFER SWITCH, REFER TO TRANSFER SWITCH SCHEDULE	26 36 00
<u>DP-#</u>	DISTRIBUTION PANEL	26 24 16
GEN-#	GENERATOR	26 32 13
GANN-#	GENERATOR REMOTE ANNUNCIATOR	26 32 13
<u>MC-#</u>	EXTERIOR MOUNTED METERING CABINET	26 20 00
<u>MX-#</u>	MANUAL SWITCH, REFER TO DISCONNECT AND STARTER SCHEDULE	26 24 19
RA-ATS-#	REMOTE ANNUNCIATOR FOR ATS	26 36 00
<u>SB-#</u>	SWITCHBOARD	26 24 13
SPD-#	SURGE PROTECTION DEVICE	26 43 00

ROCKFORD PUBLIC SCHOOL DISTRICT #205
ROCKFORD, ILLINOIS

RICHARD L. JOHNSON ASSOCIATES | ARCHITECTS

SHEET IDENTIFICATION
ELECTRICAL SYMBOLS LIST

PROJECT INFORMATION
Date February 20, 2024
Rev. Date
Rev. Date
Rev. Date
Rev. Date
Ruja Proj 2023-088

E001

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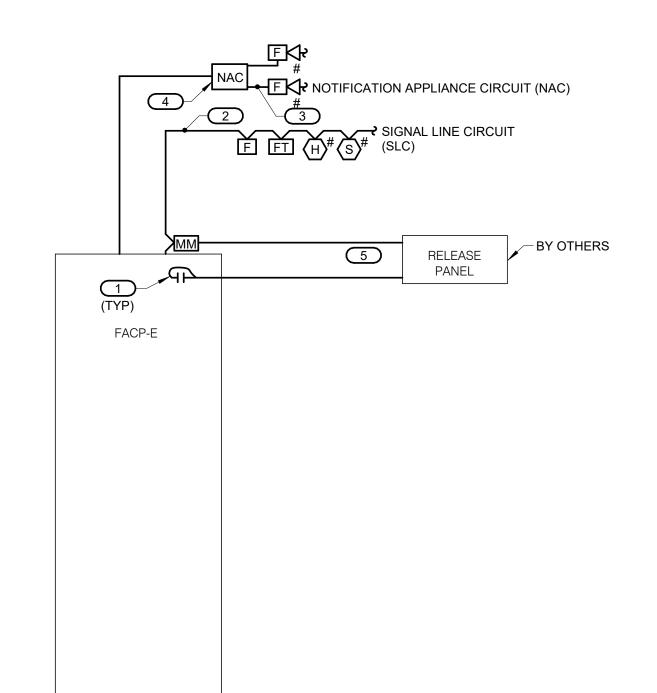
	ELEC	CTRICAL	SYMBOL LIST
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
COMMON AND SEQUENCE OF OPERATION SUBSCRIPTS			SUBSCRIPTS: TYPE / PROGRAMMING W = WEATHERPROOF CA = CLEAN AGENT SYSTEM CR = COMPUTER ROOM # = 15, 30, 75, 110, 177 CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER
П	FACP-#	EXISTING	FIRE ALARM CONTROL PANEL
	NAC-#	28 31 00	NOTIFICATION APPLIANCE CIRCUIT PANEL
(S)# (S)#	<u>FA-120</u>	28 31 00	FIRE ALARM SMOKE DETECTOR, CEILING OR WALL MOUNT
			BLANK - PHOTOELECTRIC
(S) ^{AS}	ASSD-#	28 31 50	FIRE ALARM AIR SAMPLING SMOKE DETECTION
(H)# \(\frac{1}{4}\)	<u>FA-140</u>	28 31 00	FIRE ALARM HEAT DETECTOR
Ш (H) #			BLANK = COMBINATION RATE OF RISE
F	FA-130	28 31 00	FIRE ALARM MANUAL PULL STATION
FQ FQ	FA-210	28 31 00	AUDIO HORN/CHIME ALARM DEVICE, CEILING OR WALL MOUNTED
	<u>FA-211</u>	28 31 00	COMBINATION AUDIO HORN/CHIME AND VISUAL ALARM DEVICE, CEILING OR WALL MOUNTED
			# = CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER
RT	<u>FA-242</u>	28 31 00	FIRE ALARM REMOTE INDICATOR W/ TEST SWITCH
ММ	<u>FA-160</u>	28 31 00	FIRE ALARM ADDRESSABLE MONITOR MODULE
			BLANK = REFER TO PLANS
СМ	<u>FA-161</u>	28 31 00	FIRE ALARM ADDRESSABLE CONTROL MODULE
			BLANK = REFER TO PLANS
FSD	<u>FA-250</u>	28 31 00	FIRE ALARM SMOKE OR FIRE/SMOKE DAMPER CONTROL WITH DETECTOR, AND ADDRESSABLE MODULE, AND REMOTE INDICATOR (WITH TEST SWITCH WHEN APPLICABLE)

= INDICATES EQUIP OR SYSTEM

SYSTEM INPUTS	SEQUENCE OF OPERATION	PANEL/ANNUNCIATOR ALARM INDICATION	PANEL/ANNUNCIATOR SUPERVISORY INDICATION	PANEL/ANNUNCIATOR TROUBLE INDICATION	AUDIBLE ALARMS SEQUENCE	VISUAL ALARMS SEQUENCE	SMOKE DAMPER SONTROL SEQUENCE	RELEASE AGENT DISCHARGE SEQUENCE ☑
FIRE ALARM PANEL, TRANSPOND LOW BATTERY	ER, NAC PANEL		X					
FIRE ALARM PANEL, TRANSPOND BATTERY OR CHARGER FAILURE			Х					
FIRE ALARM PANEL, TRANSPOND ABNORMAL SWITCH OR CONTRO		Х						
FIRE ALARM PANEL, TRANSPOND GROUND FAULT, OPEN CIRCUIT,			Х					
FIRE ALARM PANEL, TRANSPOND AC POWER LOSS OR IRREGULAR				Х				
NOTIFICATION APPLIANCE CIRCU GROUND FAULT, OPEN CIRCUIT,				Х				
INITIATING DEVICE FAILURE OR COMMUNICATION EF	RROR			Х				
FIRE ALARM PANEL MANUAL FIRE DRILL			X		Х	X		
MANUAL PULL STATION	FT F	X			X	X		
SMOKE DETECTOR	(\$) _{#/_} H(\$) _{#/_}	X			X	X		
HEAT DETECTOR	Х			X	X			
SMOKE DETECTOR FOR SMOKE DAMPER CONTROL		X				Х		
RELEASE AGENT SYSTEM PANEL ALARM	Х			X	X		Х	
RELEASE AGENT SYSTEM PANEL TROUBLE	MM			Х				

1. ALL SYSTEM EVENTS SHALL BE LOGGED, AND DISPLAYED ON THE ANNUNCIATOR INTERFACE, IF APPLICABLE. SEE SPECIFICATIONS FOR MORE INFORMATION AND DESCRIPTIONS OF SEQUENCES OF OPERATION.

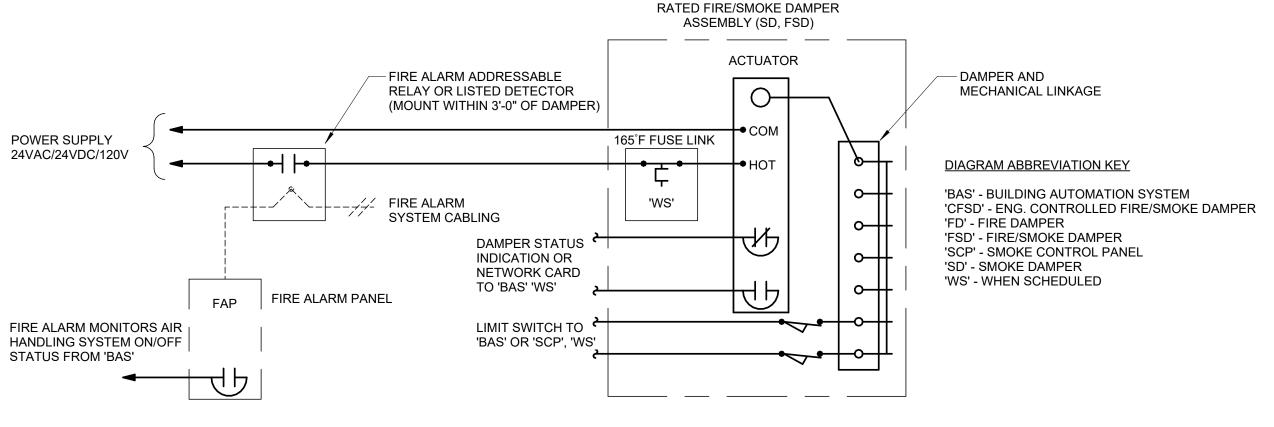




- 1. THE RISER DIAGRAM IS INTENDED TO CONVEY THE TYPES OF FIRE ALARM CONNECTIONS AND SPECIFICALLY DOES NOT INDICATE QUANTITIES, NUMBER OF CIRCUITS REQUIRED OR DISTANCES.
- 2. THE COMPLETE FIRE ALARM SYSTEM SHALL MEET ALL APPLICABLE CODES AND MANUFACTURER'S RECOMMENDATIONS.
- 3. CONTRACTOR SHALL COORDINATE ALL WIRE SIZES, TYPES AND REQUIREMENTS WITH THE VENDOR PRIOR TO BID. REFER TO SPECIFICATIONS TO DETERMINE CIRCUIT STYLES AND IF CONDUIT IS REQUIRED OR PLENUM RATED CABLE IS
- 4. ALL +120VAC WIRING REQUIRED FOR OPERATION OF THE SYSTEM AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS SHALL BE PROVIDED BY THE ELECTRICAL
- CONTRACTOR. 5. ALL NECESSARY RELAYS MAY NOT BE SHOWN ON THIS PLAN, BUT WHERE REQUIRED FOR PROPER OPERATION OF THE SYSTEM THEY SHALL BE PROVIDED BY THE CONTRACTOR.

KEYNOTES:

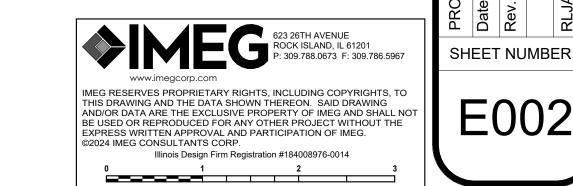
- 1. REPRESENTATIVE OF PROGRAMMABLE I/O POINTS IN THE PANEL OR A GENERAL SYSTEM TROUBLE/ALARM CONTACT CONNECTED TO THE SYSTEM NOTED. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
- 2. REFER TO SPECIFICATION FOR REQUIREMENTS OF EACH INITIATION LOOP AND WIRING STYLE. REFER TO FLOOR PLANS FOR DEVICES AND THEIR LOCATIONS.
- 3. REFER TO SPECIFICATION FOR REQUIREMENTS OF EACH NOTIFICATION APPLIANCE CIRCUIT AND WIRING STYLE. REFER TO FLOOR PLANS FOR DEVICES AND THEIR LOCATIONS.
- 4. PROVIDE NOTIFICATION APPLIANCE EXTENDER PANELS AS REQUIRED. DETERMINATION OF NEED TO BE MADE BY FIRE ALARM VENDOR. REFER TO
- SPECIFICATIONS FOR REQUIREMENTS AND ACCEPTABLE MOUNTING LOCATIONS. 5. THE RELEASE PANEL WILL PROVIDE CONTACT CLOSURES TO BE MONITORED BY THE FIRE ALARM PANEL. THE ALARM AND AGENT RELEASE SIGNALS SHALL ACTIVATE A GENERAL ALARM. THE PRE-SIGNAL SHALL ACTIVATE A WARNING ON THE GUI ONLY.

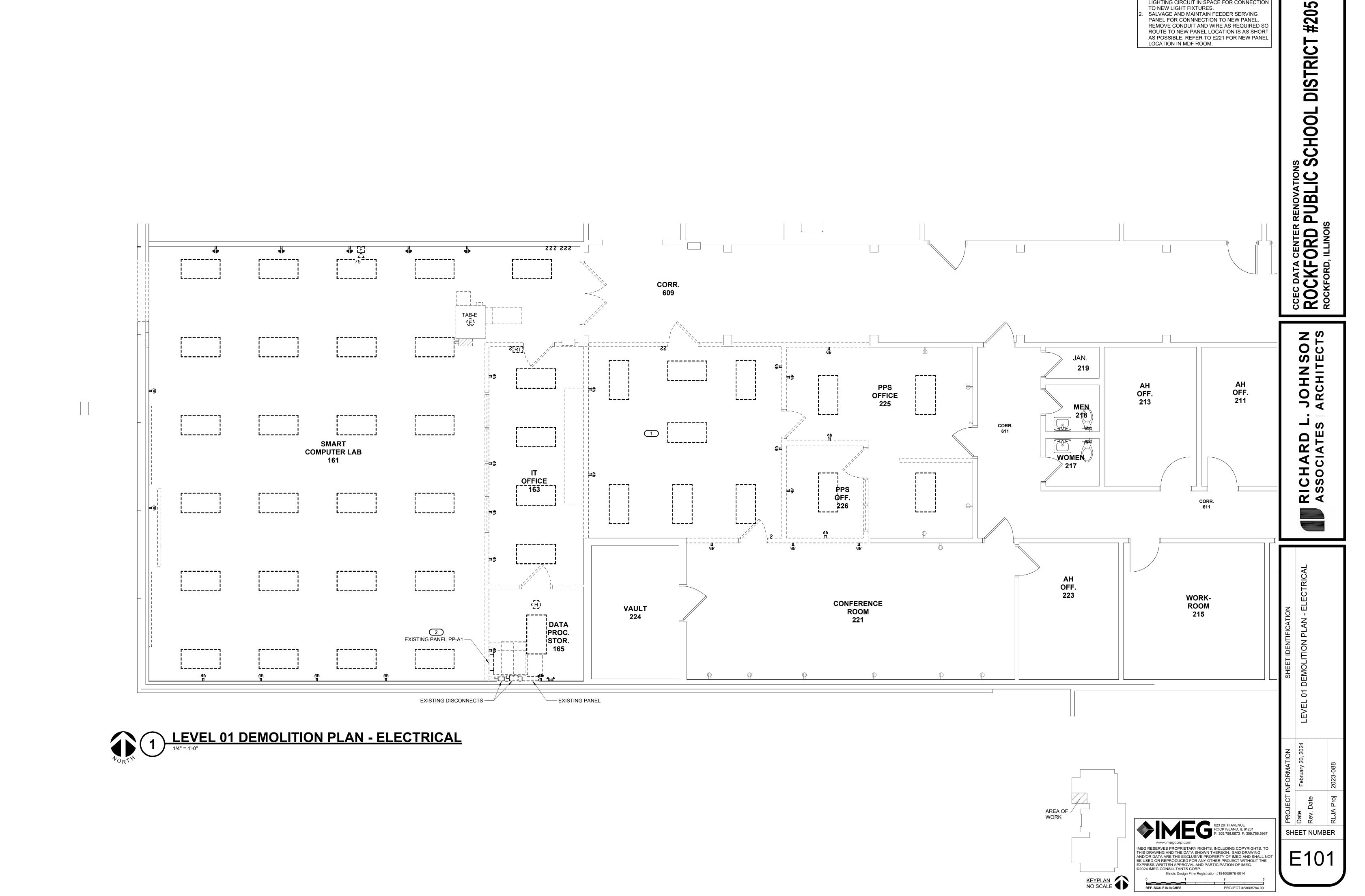


FIRE/SMOKE DAMPER CONTAINMENT CONTROL DIAGRAM:

- 1. THE REPRESENTATION IS DIAGRAMMATIC, MAY NOT REPRESENT EVERY SYSTEM COMPONENT, CABLE, OR WIRE TERMINATION REQUIRED BASED ON PROJECT SPECIFIC EQUIPMENT. CONTRACTOR TO PROVIDE ALL PROJECT SPECIFIC COMPONENTS FOR A COMPLETE AND
- OPERATIONAL SYSTEM. 2. COORDINATE INSTALLATION BETWEEN MECHANICAL, ELECTRICAL FIRE ALARM, TEMPERATURE CONTROL, AND FIRE FIGHTER SCP CONTRACTOR.
- 3. FIRE ALARM SYSTEM TO 'OPEN/CLOSE' ASSOCIATED DAMPERS WHEN AIR HANDLING SYSTEM STATUS IS 'ON/OFF'.







KEYNOTES: #

SALVAGE AND MAINTAIN UNSWITCHED
 LIGHTING CIRCUIT IN SPACE FOR CONNECTION
 TO NEW LIGHT FIXTURES.
 SALVAGE AND MAINTAIN FEEDER SERVING
 PANEL FOR CONNNECTION TO NEW PANEL.
 REMOVE CONDUIT AND WIRE AS REQUIRED SO

ROUTE TO NEW PANEL LOCATION IS AS SHORT AS POSSIBLE. REFER TO E221 FOR NEW PANEL LOCATION IN MDF ROOM.

SHEET NUMBER

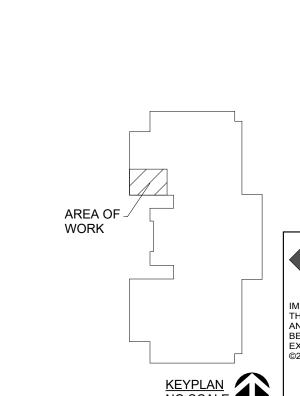
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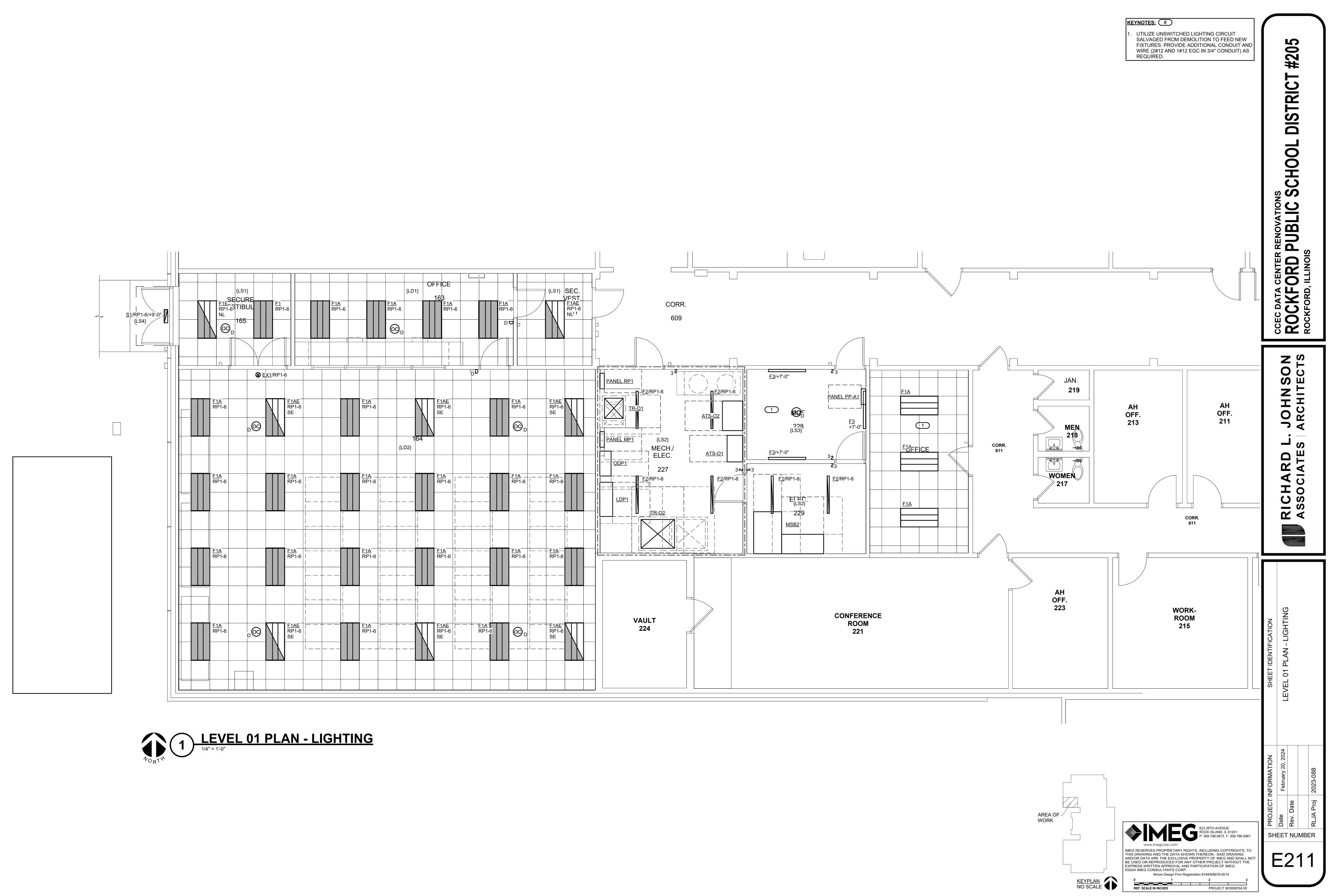
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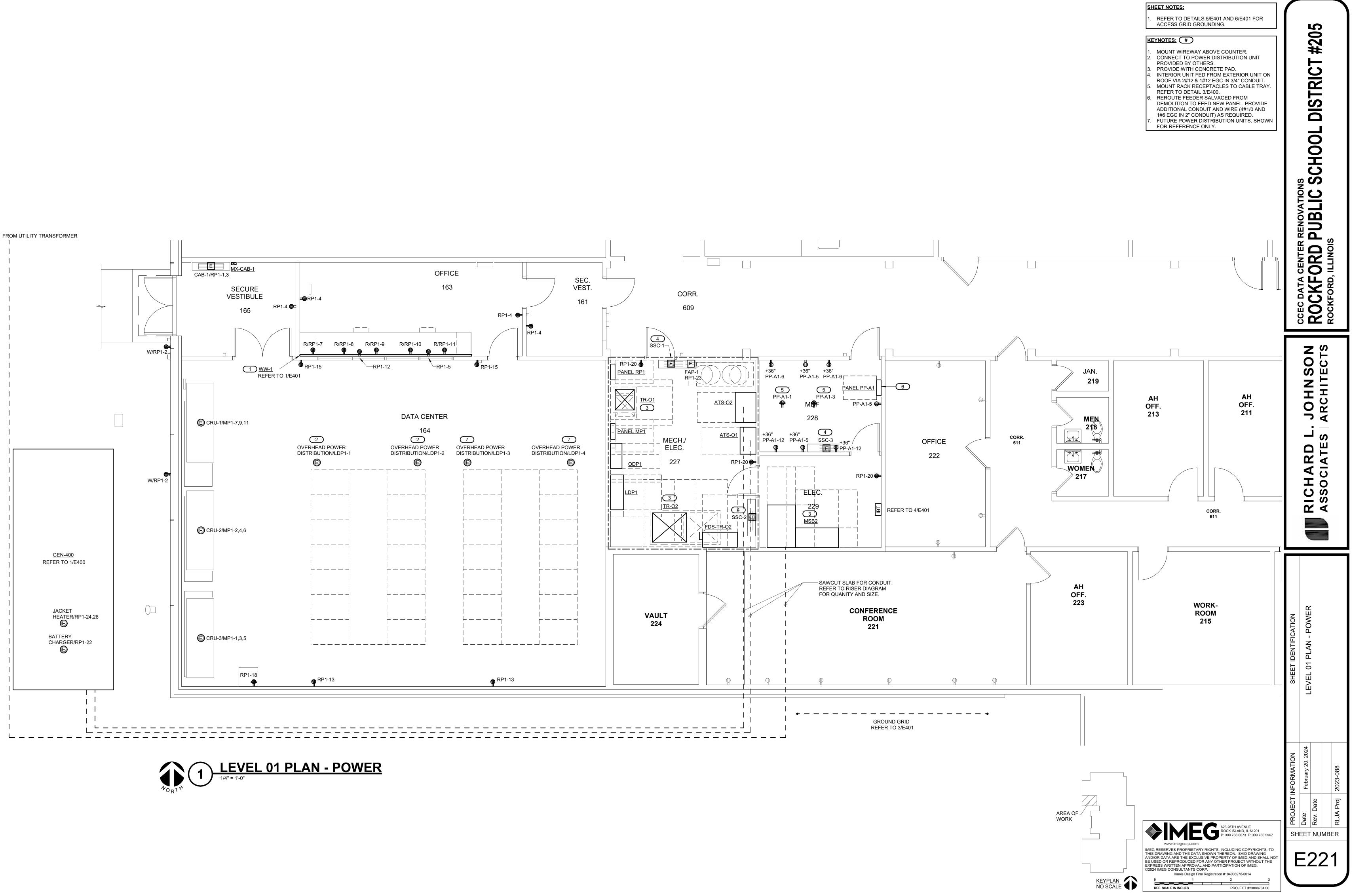
ROOF DEMOLITION - ELECTRICAL

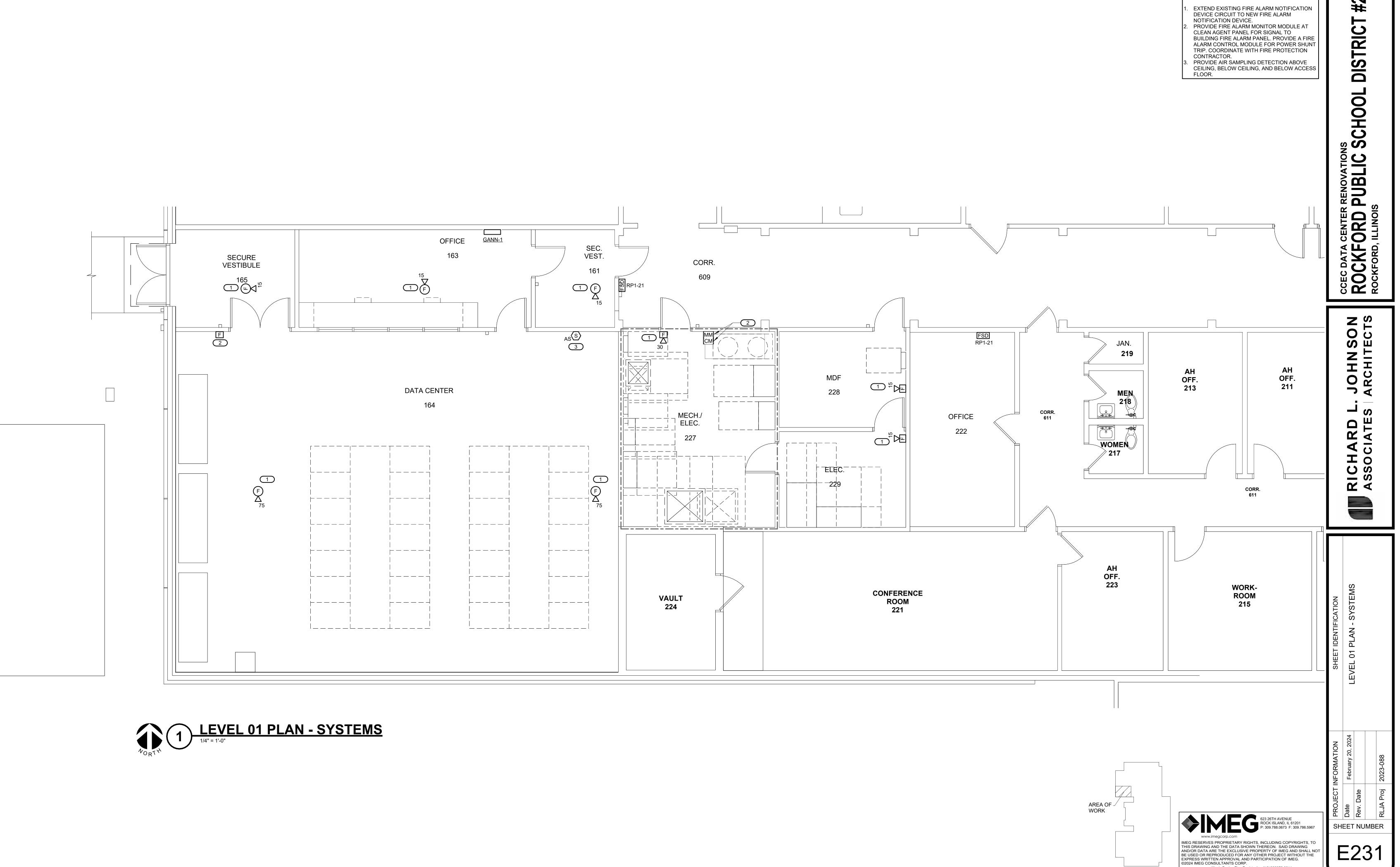
1/4" = 1'-0"

CU-E









#202 DISTRICT

SHEET NOTES:

KEYNOTES: #

REFER TO DETAILS 1/E402 AND 2/E402 FOR AIR SAMPLING DETECTION INSTALLATION.

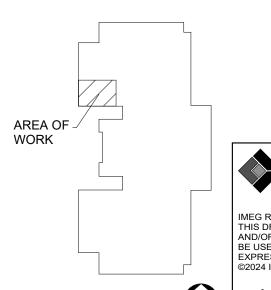
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REF. SCALE IN INCHES PROJECT #23008764.00

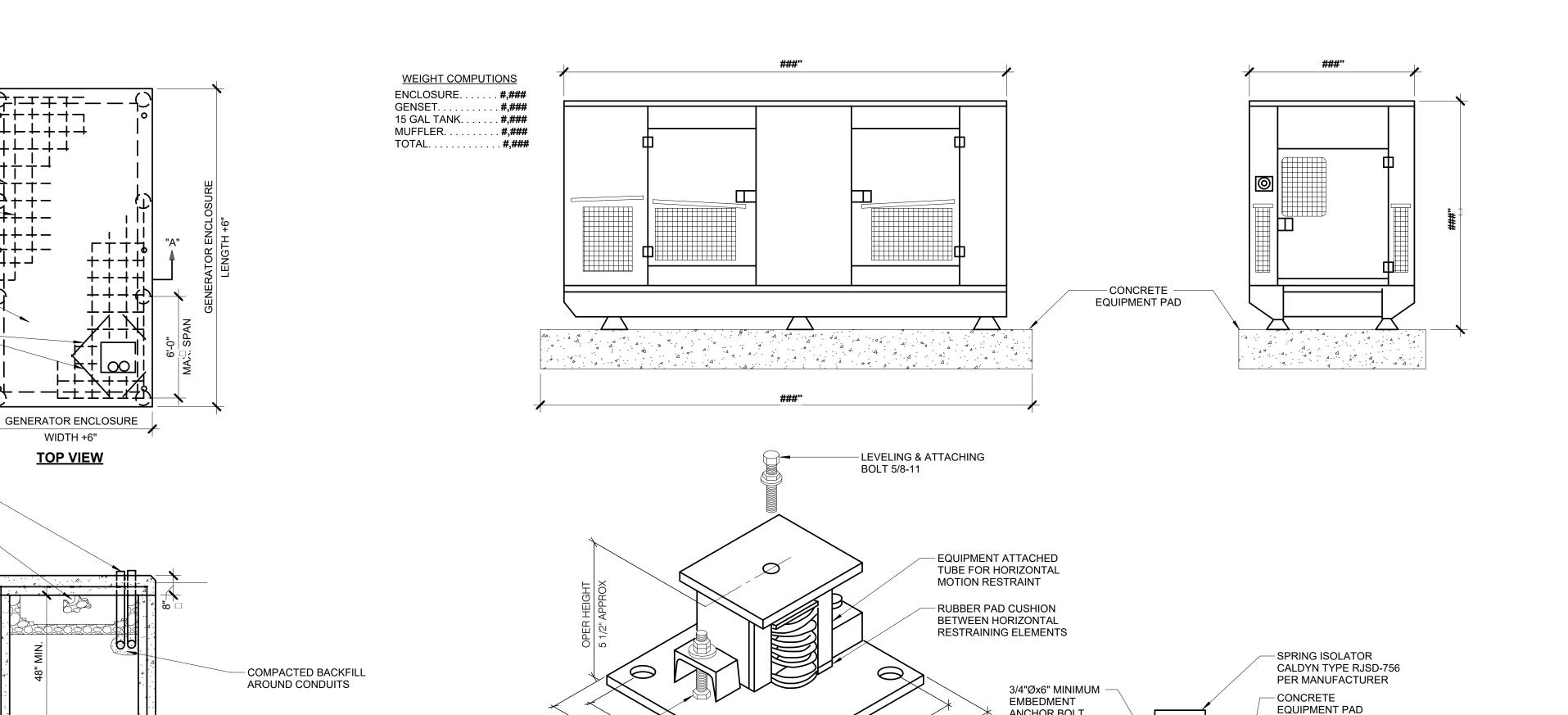
PRE-3/MP1-25,27,29 PRE-2/MP1-20,22,24 PRE-1/MP1-19,21,23 DS-CU-SSC-1 CU-SSC-1/RP1-14,16 CU-SSC-2/RP1-17,19 CU-CRU-2/MP1-13,15,17 CU-CRU-3/MP1-14,16,18 CU-CRU-1/MP1-8,10,12 CU-SSC-3/PP-A1-2,4 (E) DS-CU-SSC-3 W/RP1-2 W/RP1-2





SHEET NUMBER

623 26TH AVENUE ROCK ISLAND, IL 61201 P: 309.788.0673 F: 309.786.5967 MEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE ©2024 IMEG CONSULTANTS CORP.



BOLT FOR VERTICAL MOTION

RESTRAINT



WIDTH +6"

SECTION "A-A"

COORDINATE PAD DIMENSIONS WITH GENERATOR SUPPLIER PRIOR TO START OF CONSTRUCTION.

TOP VIEW

ALTERNATE: IN LIEU OF 8"
FOUNDATION WALL. INSTALL 8"
(MIN.) SONOTUBE STYLE PIERS
WITH (1) #4 BAR DOWELED INTO

#4 REBAR @ 12" 0.C. IN SHORT DIRECTION

#4 REBAR @ 12" O.C. IN LONG

3000 PSI CONCRETE, — MIN. 28 DAY STRENGTH

ANCHOR BOLTS PER — GENERATOR SUPPLIER RECOMMENDATIONS

MINIMUM 4

FINAL GRADE -

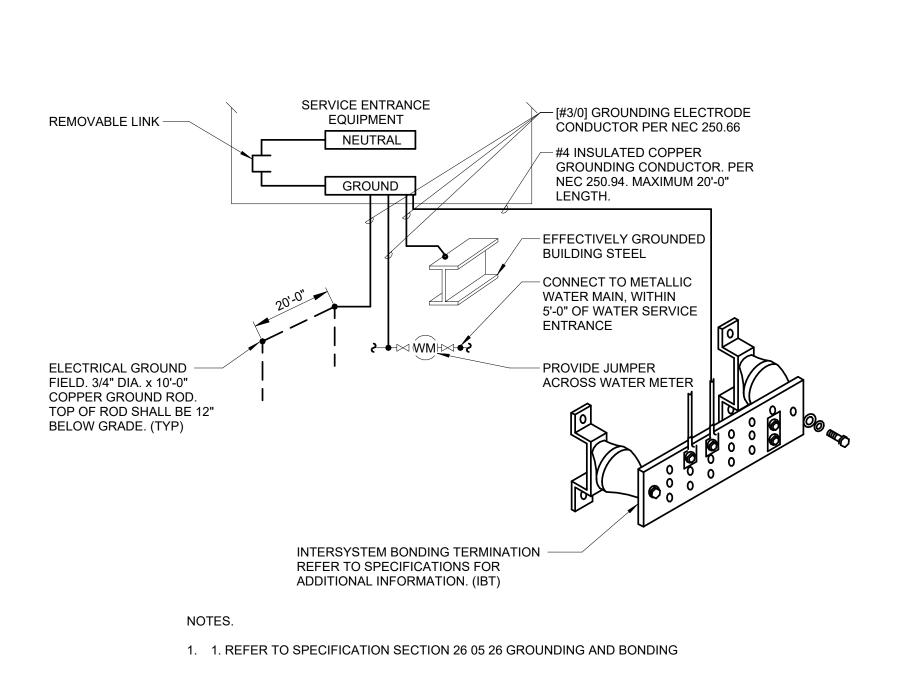
TWO #4 BARS DIAGONALLY EACH SIDE OF OPENING

COORDINATE CONDUIT ENTRY -WITH GENERATOR SUPPLIER

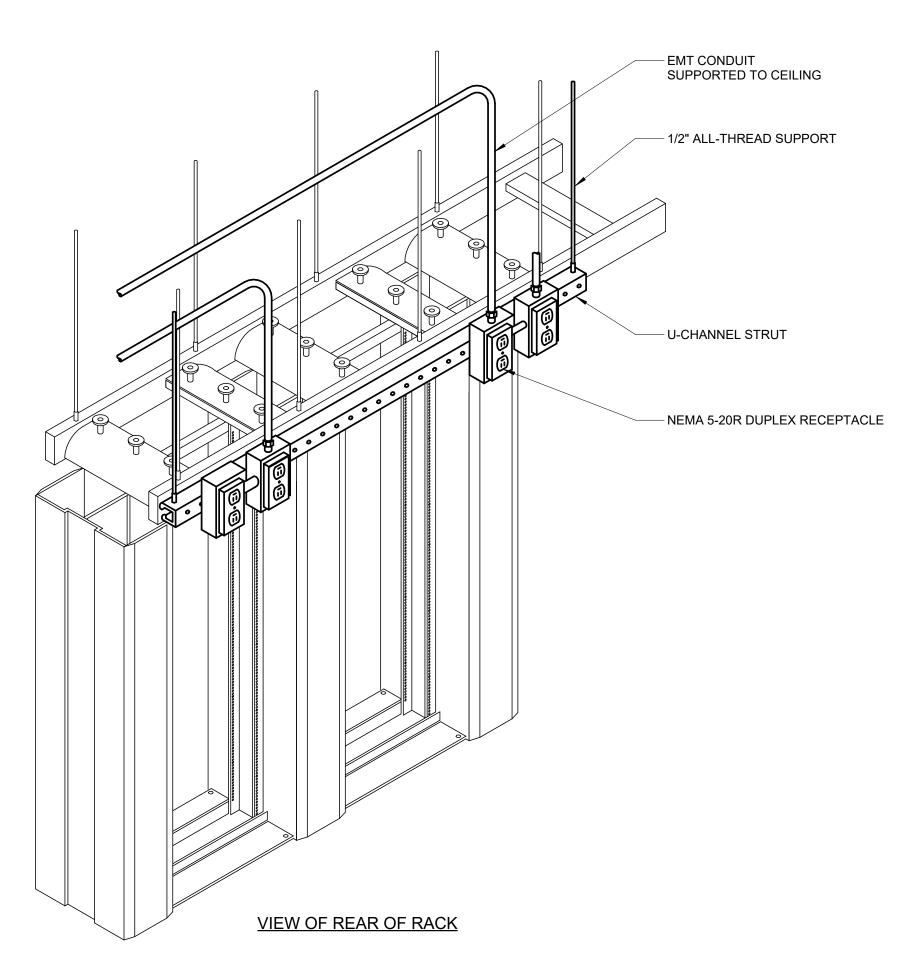
#4 BARS VERTICAL @ 12" O.C. IN — WALL, OR ONE IN EACH PIER

FOR BATTERY CHARGER, HEATERS, ALARMS AND POWER. 12" DEEP COMPACTED FREE -DRAINING MATERIAL (PEA GRAVEL)

DIRECTION



SERVICE ENTRANCE GROUNDING ELECTRODE SYSTEM DETAIL
NO SCALE

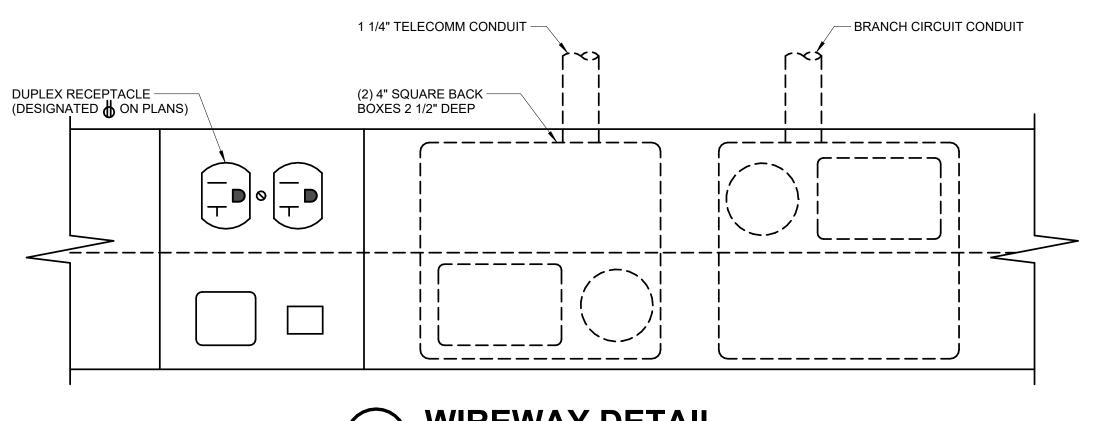


RACK RECEPTACLE DETAIL
NO SCALE

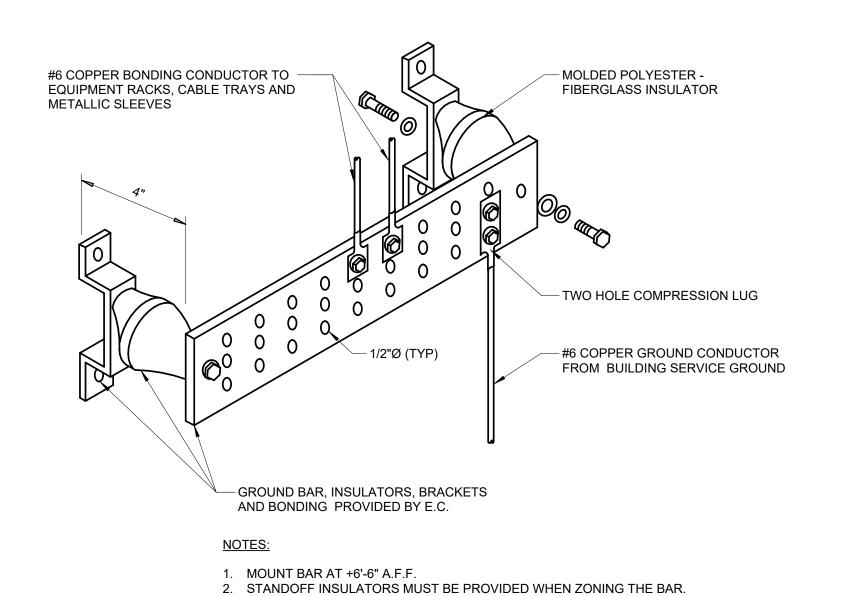
ANCHOR BOLT

SPRING ISOLATOR MOUNTING

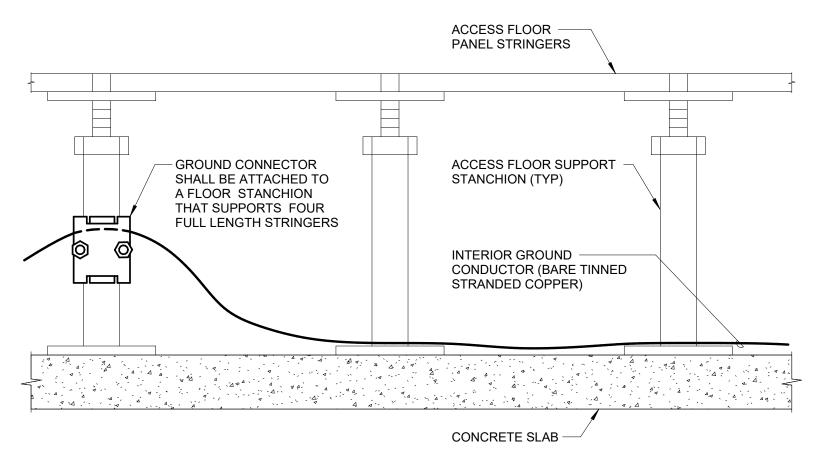
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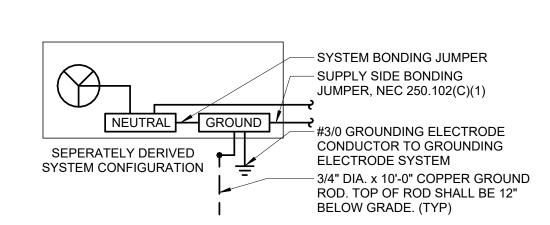
1) WIREWAY DETAIL
NO SCALE



INTERSYSTEM BONDING TERMINAL (IBT) DETAIL
NO SCALE



6 ACCESS FLOOR GROUNDING DETAIL
NO SCALE



(2) GENERATOR GROUNDING DETAIL
NO SCALE



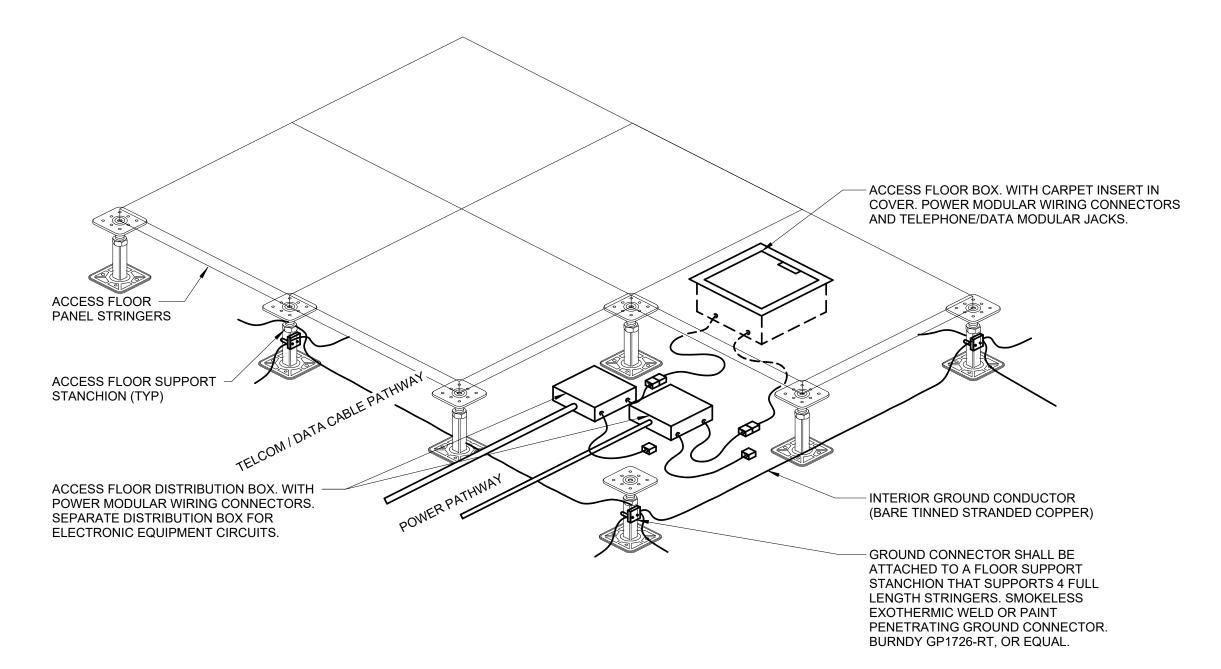
GROUNDING ELECTRODE
CONDUCTOR FROM SYSTEM GROUND

- EXOTHERMIC WELD OR HYDRAULIC ONE SHOT CRIMP CONNECTION. (TYP ALL GROUND WIRE CONNECTIONS)

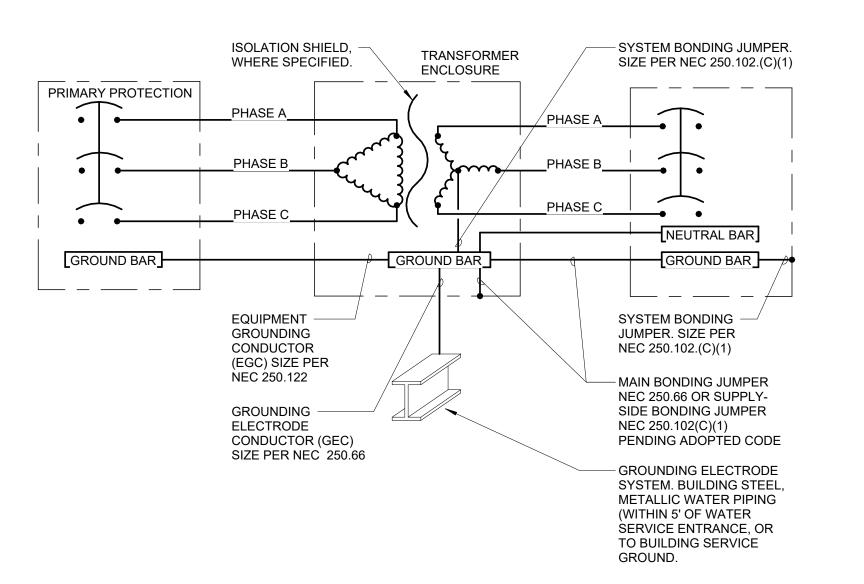
- 3/4"x10'-0" COPPER OR COPPERCLAD STEEL GROUND ROD. TOP OF GROUND ROD SHALL BE 12" BELOW GRADE. (TYP)

BARE COPPER GROUNDING CONDUCTOR (TYP)

CONNECTION



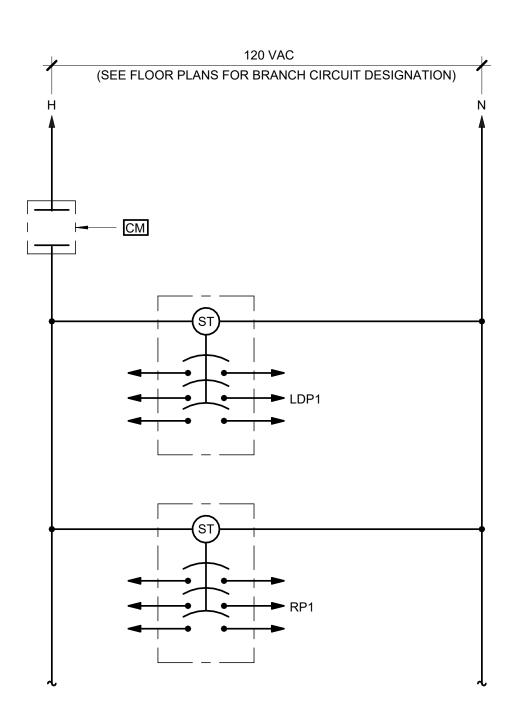
ACCESS FLOOR GROUNDING DETAIL
NO SCALE



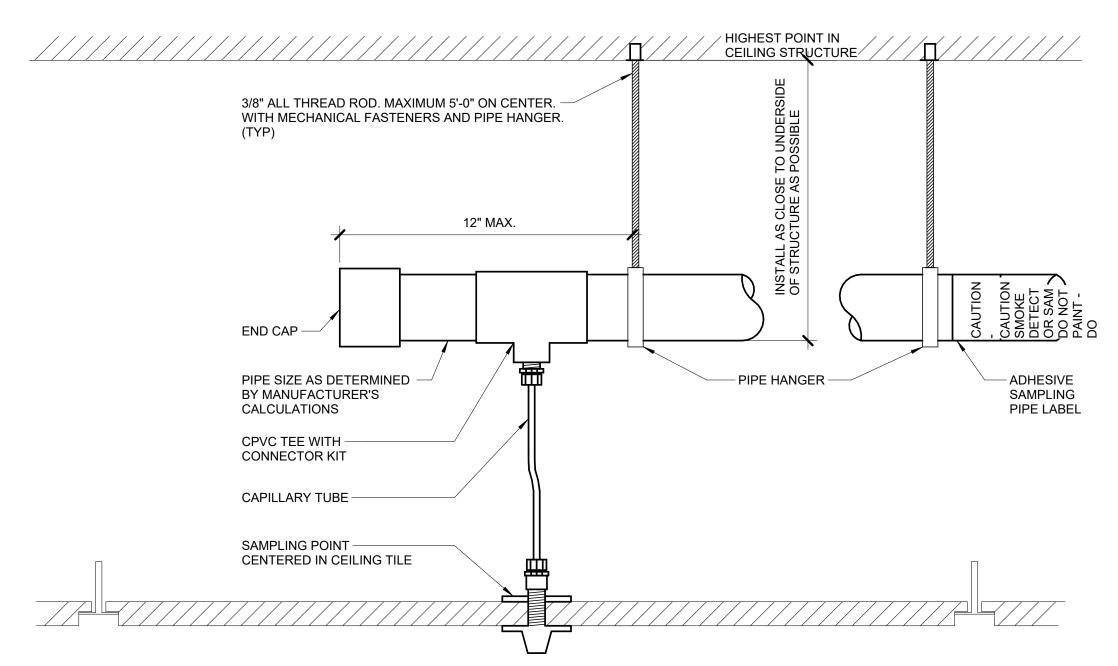
TRANSFORMER WIRING DETAIL



1 UNDERFLOOR AIR SAMPLING NO SCALE



3 EQUIPMENT SHUTDOWN CONTROL
NO SCALE



AIR SAMPLING SMOKE DETECTION AT CEILING
NO SCALE

RICHARD L. JOHNSON ASSOCIATES ARCHITECTS

DISTRICT #205

ROCKFORD, ILLINOIS

SHEET IDENTIFICATION
ELECTRICAL DETAILS

PROJECT INFORMATION
Date February 20, 2024
Rev. Date

E402

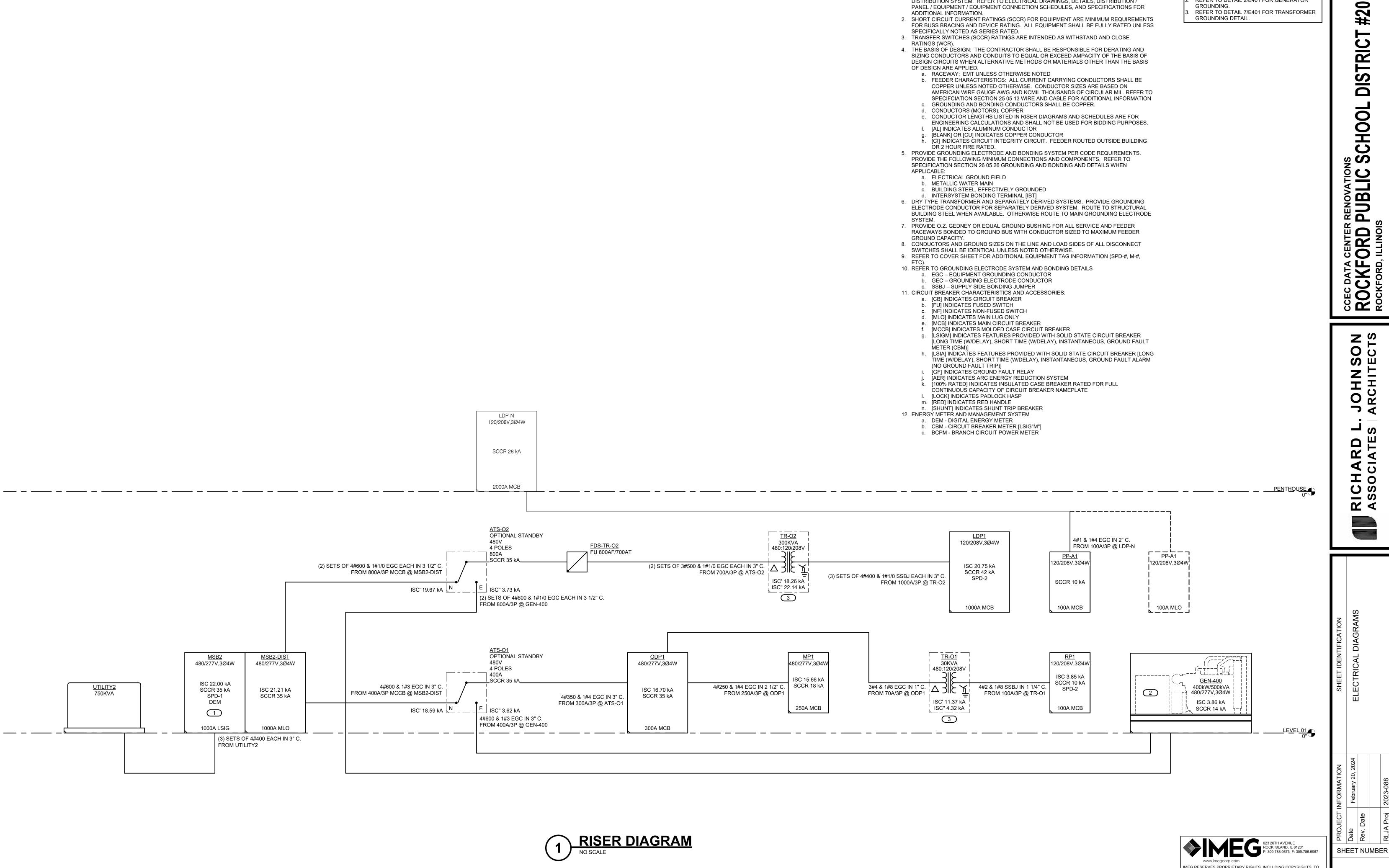
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0 1 2 3



KEYNOTES: #

ELECTRICAL - RISER DIAGRAM NOTES:

1. THE RISER DIAGRAM IS INTENDED TO CONVEY THE COMPONENTS OF THE ELECTRICAL

DISTRIBUTION SYSTEM. REFER TO ELECTRICAL DRAWINGS, DETAILS, DISTRIBUTION /

REFER TO DETAIL 2/E400 FOR SERVICE ENTRANCE GROUNDING.

5

REFER TO DETAIL 2/E401 FOR GENERATOR

GROUNDING.

SHEET NUMBER

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TW - 2 SPEED, 2 WINDING SW - 2 SPEED, 1 WINDING RV - REDUCED VOLTAGE AUTOXFMR SS - SOLID STATE MS - MANUAL STARTER MX - MANUAL SWITCH

FS - FUSED SWITCH

AMS-ASSEMBLED MOTOR	R STARTER									
	DISC	ONNECT RATING				STAF	RTER		REQUIRED	
ITEM	TYPE	RATING	TRIP RATING	VOLTAGE POLI		NEMA POLES SIZE		ENCLOSURE	ACCESSORIES & OPTIONS	COMMENTS
MX-CAB-1		30 A		208 V	2	0	MX	NEMA 1	RP, 115 VOLT PILOT LIGHT CIRCUIT	
FDS-TR-O2	FU	800 A	700 A	480 V	3			NEMA 1		
DS-CU-SSC-1	NF	30 A		480 V	3			NEMA 3R		
DS-CU-SSC-2	NF	30 A		480 V	3			NEMA 3R		
DS-CU-SSC-3	NF	30 A		480 V	3			NEMA 3R		

TRANSFORMER SCHEDULE													
TYPE:							ACCESSOR	ES & OPTIONS					
K1 - DOE 2016 DRY T	K1 - DOE 2016 DRY TYPE						ORMER			AL - ALUMIN	UM WINDINGS		
K4 - K4 RATED DRY T	K4 - K4 RATED DRY TYPE									CU - COPPE	R WINDINGS		
K13 - K13 RATED DRY	K13 - K13 RATED DRY TYPE									RS - EPOXY	RESIN ENCAPSULATED		
HM - HARMONIC MITI	HM - HARMONIC MITIGATING					FL - FILTERED					ED		
PE - NEMA PREMIUM	EFFICIENC	Υ								NV - NON-VENTILATED			
										NL - 200% RATED NEUTRAL			
										EL - ELECTF	ROSTATIC SHIELD		
				MAX.	PRIMA	ARY	SECON	DARY		•			
ITEM	KVA RATING	TYPE	ENCLOSURE	TEMP. RISE C.	VOLTS	PH	VOLTS	PH	REQUIRED AC & OPTI		COMMENTS		
TR-01	30 kVA	K-1	NEMA 1	80	480	3	120/208	3	AL				

300 kVA K-1 NEMA 1 80 480 3 120/208 3 AL

TRANSFE	R SWITCI	H SCH	EDUL	.E						
SWITCH TYPE:				ACCESSORIES & OPTIO	<u>NS</u>					
AUTO - AUTOMA	TIC					1	EE - ENGINE EXERCISER	₹		
B/I - AUTOMATIC	WITH BYPASS ISC	LATION				1	M - IN-PHASE MONITOR			
MAN - MANUAL (OPERATION					:	SH - STRIP HEATER WIT	H THERMOS	TAT	
PGLB - PORTABL	E GENERATOR & I	OAD BANK	CABINET			1	RM - REMOTE ANNUNCIA	ATOR		
STAT - STATIC S	OLID STATE					1	RC - REMOTE CONTROL	CIRCUITS		
SWITCH CONFIG	URATION (CONFIG	<u>i):</u>				1	EL - ELEVATOR EMERGE	NCY TO NO	RMAL PRESIGNAL	
CT - CLOSED TR	ANSITION					;	SP - SERIAL COMMUNICA	ATIONS POF	RT	
DT - DELAYED TI	RANSITION - CENT	ER OFF				1	PM - POWER MONITORING METER			
30 - 30 CYCLE W	ITHSTAND RATING					1	RTC - REMOTE TRANSFER CONTROL FROM FIRE COMMAND CENTER			
SE - SERVICE EN	ITRANCE LISTED					1	RMC - REMOTE ANNUNCIATION AT FIRE COMMAND CENTER			
SN - SWITCHED	NEUTRAL					-	TI - TRANSFER INHIBIT			
ON - OVERLAPPI	NG SWITCHED NE	UTRAL				ı	LS - LOAD SHED (PROVIDE DELAYED TRANSISTION - CENTER OFF CONFIGURATION			
DN - SOLID NEUT	ΓRAL									
		S	WITCH				REQUIRED			
ITEM	TYPE AND CONFIG	VOLTAGE	POLES	AMPS	SCCR	ENCLOSURE	ACCESSORIES & OPTIONS	PRIORITY GROUP	BRANCH	COMMENTS
ATS-O1	AUTO, ON	480 V	4	400 A	35 kA	NEMA 1	EE, RM	3	OPTIONAL STANDBY	
ATS-O2	AUTO, ON	480 V	4	800 A	35 kA	NEMA 1	EE, RM	3	OPTIONAL STANDBY	SWITCH TRANSFERS 1 SECONDS AFFTER ATS-01.

MERGE	NCY POWER SUPP	PLY SYSTEM - SEQUENCE OF OPERATION
EMERGENCY P	POWER SUPPLY START: GENERATO	OR START UPON LOSS OF UTILITY POWER
LOAD TRANSE	ED STERS.	
LOAD TRANSF	ER STEPS:	
PRIORITY GROUP	BRANCH	SEQUENCE OF OPERATION
3	OPTIONAL STANDBY	GENERATOR START DELAY: 1 SECOND 1-6 SECONDS ADJUSTABLE RANGE TRANSFER TO EMERGENCY DELAY: [60] SECONDS 0 - 60 MINUTES, 59 SECONDS ADJUSTABLE RANGE TRANSFER TO NORMAL DELAY: [1800] SECONDS 0 - 60 MINUTES, 59 SECONDS ADJUSTABLE RANGE LOAD SHED: NO

LED LUMINAIRE SCHEDULE

DALI - DIGITAL ADDRESSABLE ELV - ELECTRONIC LOW VOLTAGE

(DESC) DOOR:	DISTRIBUTION:	BEAMWIDTH:	(L/L) LENS/LOUVER:	K19 - KSH19 .156" ACRYLIC
FA - FLAT ALUMINUM	II - ANSI/IES TYPE 2 DISTRIBUTION	NSP - VERY NARROW SPOT	A125" ACRYLIC	M - MATTE DIFFUSE CLEAR
FS - FLAT STEEL	III - ANSI/IES TYPE 3 DISTRIBUTION	SP - SPOT	B - BAFFLE/LOUVER	N - NONE
RA - REGRESSED ALUMINUM	IV - ANSI/IES TYPE 4 DISTRIBUTION	MD - MEDIUM	C - CLEAR ALZAK	P - POLYCARBONATE
RS - REGRESSED STEEL	V - ANSI/IES TYPE 5 DISTRIBUTION	WD - WIDE	F - FROSTED ACRYLIC	R - HIGH IMPACT DR ACRYLIC
FINISH:		VWD - VERY WIDE	G - TEMPERED GLASS	SS - SEMI-SPECULAR CLEAR
PAF - PAINT AFTER FABRICATIO	ON	WW - WALL WASH	K - KSH12 .125" ACRYLIC	O - OTHER (SEE DESCRIPTION)
CFSA - COLOR-FINISH SELECTION	ON BY ARCHITECT			[DESIGN SPECIFIC BLANKS]
(MTG) MOUNTING:	RE - RECESSED		(WATT) PER: FIX - FIXTURE,	FT - FOOT, LAMP
CL - CEILING SURFACE	SP - SUSPENDED		(TYPE) LED	RGB - COLOR CHANGING LED
CV - COVE	SU - SURFACE		LED - LIGHT EMITTING DIODE	RGBW - COLOR CHANGING + WHITE
FR - FLANGED RECESSED	UC - UNDER CABINET		TLED - TUBULAR LED LAMP	RGBA - COLOR CHANGING + AMBER
P - PERIMETER	WL - WALL		OLED - ORGANIC LED	RLED - RETROFIT LED
PL - POLE	O - OTHER (SEE DESCRIPTION)		DLED - DYNAMIC TUNABLE LED	WLED - WARM DIM LED
(TYPE) DRIVER:				
0-10V - 0-10V DIMMING	EB - ELECTRONIC	HL - HIGH/LOW (100%/50%) STEP	DIM	MV - MULTI-VOLTAGE ELECTRONIC

O - OTHER (SEE DESCRIPTION) DMX - DIGITAL MULTIPLEX **EM - EMERGENCY BATTERY** ML - MULTI-LEVEL SWITCHING CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS OF

LINE - LINE VOLTAGE DIMMING

VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE MOUNTING AND TRIM REQUIREMENTS PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER. CONFIRM ALL COLORS AND FINISHES OF ALL LUMINAIRE COMPONENTS WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER. UNLESS INDICATED ON LIGHTING PLANS OR BELOW, REFER TO ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS, SECTIONS AND DETAILS FOR ALL SUSPENDED AND WALL MOUNTED LUMINAIRE MOUNTING HEIGHTS.

REFER TO SPECIFICATION SECTIONS LED LIGHTING 26 51 19 FOR ADDITIONAL INFORMATION AND REQUIREMENTS. INTERIOR CORRELATED COLOR TEMPERATURE 4000/4100K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE. EXTERIOR CORRELATED COLOR TEMPERATURE 4000/4100K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.

					DIMEN	ISIONS		WA	TT		L	ED	DRIVER	2	
ITEM	DESCRIPTION	L/L	MTG	L	w	н	DIA.	ANSI WATTS	PER	TYPE	QTY	DELIVERED LUMENS (MIN)	VOLTS	TYPE	MANUFACTURER AND MODEL
EX1	SINGLE-FACE EMERGENCY EXIT SIGN, WHITE DIE-CAST ALUMINUM BODY, RED LETTERS, UNIVERSAL ARROWS/MOUNTING. SELF TEST & DIAGNOSTICS OF INVERTER AND LAMPS.	0	CL	1'-0"	2"	10"		4 W	FIX	LED	1	3 WATT LED	120 V		ACUITY LITHONIA LE H.E. WILLIAMS EXIT/CA LIGHTALARMS GALAXY TX SERIES
F1	DIRECT LED WITH HIGH ANGLE ILLUMINANCE, SMOOTH CURVED MATTE ACRYLIC DIFFUSER. WHITE FINISH.	А	RE	4'-0"	2'-0"	3"		23 W	FIX	LED	1	3000	120 V		ACUITY LITHONIA 2BLT4 COOPER METALUX CRUZE SB 24CZ CURRENT HLI COLUMBIA LCAT24 CREE ZR-C SIGNIFY DAYBRITE EVOGRID EVG
F1A	SIMILAR TO F1.	Α	RE	4'-0"	2'-0"	3"		38 W	FIX	LED	1	4800	120 V	0-10V	REFER TO F1
F1AE	SIMILAR TO F1A W/ EMERGENCY BATTERY.	Α	RE	4'-0"	2'-0"	3"		38 W	FIX	LED	1	NORMAL: 4800 EM: 1000	120 V	0-10V EM	REFER TO F1A
F1E	SIMILAR TO F1 W/ EMERGENCY BATTERY.	Α	RE	4'-0"	2'-0"	3"		23 W	FIX	LED	1	NORMAL: 3000 EM: 1000	120 V	0-10V EM	REFER TO F1
F2	LED LENSED STRIP LIGHT, DIE-FORMED COLD-ROLLED STEEL HOUSING, ROUND FULL FROST LENS. PAF. EMERGENCY BATTERY.	0	SP @ 10'-0"	4'-0"	2 3/4"	2 3/4"		35 W	FIX	LED	1	4500	120 V	1	COOPER METALUX SNLED H.E. WILLIAMS 75 LED SERIES ACUITY LITHONIA ZL1D LSI SDL
F3	WALL BRACKET, COLD-ROLLED STEEL HOUSING WITH FROSTED ACRYLIC LENS, PAF.	A	WL	4'-0"	2 1/2"	3"		31 W	FIX	LED	1	4000	120 V	0-10V	SIGNIFY DAYBRITE FLUXSTREAM FSS ACUITY LITHONIA WL4* GE CURRENT ALBEO ALV2 COOPER METALUX SWLED
S1	WALL PACK, GLASS LENS, DIE-CAST ALUMINUM HOUSING, GASKETED, VISUAL COMFORT FORWARD THROW DISTRIBUTION. ZERO UPLIGHT, IP65 RATED, INTEGRAL PHOTOCELL, SUITABLE FOR OPERATION IN TEMPERATURES BETWEEN -30 DEGREE CELSIUS AND 40 DEGREE CELSIUS, FINISH SELECTION BY ARCHITECT. PROVIDE WITH EMERGENCY BATTERY.	G	WL	1'-5"	10"	8 1/2"		25 W	FIX	LED	1	NORMAL: 3000 EM: 1000	120 V		ACUITY LITHONIA WST LED CREE XSPW SERIES SIGNIFY GARDCO 101L RAYON T632LED

LIGHTING SEQUENCE OF OPERATION

PLAN ID

1. {L##} DENOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR THIS SPACE. 2. [#B] PUSH BUTTON REFERS TO SCENE QUANTITY. CONTROL STATION SHALL BE CAPABLE OF [RAISE/LOWER AND] SWITCHING ON/OFF FOR MULTIPLE SCENES AS INDICATED ON SHEETS AND THE LIGHTING SEQUENCE OF OPERATIONS (L##) COORDINATE QUANTITIES OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING CONTROL MANUFACTURER. 3. a = SWITCH DESIGNATION FOR LIGHTING CONTROL

4. VERIFY AND COORDINATE ALL PUSH BUTTON WALL DEVICES AND QUANTITIES OF INDIVIDUAL BUTTONS WITH SCENES AND ZONES PER LOCATION.

LIGHTING SWITCHED

{LD1}	Sequence: Dimmed lights are controlled in this space. ON: The lights turned on using a wall control. ADJUST: The lights are raised / lowered using a wall controller. OFF: The lights turn off using a wall controller. After the space has been vacant for 15 minutes, the lights will automatically turn off.
{LD2}	Sequence: Dimmed lights are controlled in this space. ON: The lights turned on using a wall control. ADJUST: The lights are raised / lowered using a wall controller. OFF: The lights turn off using a wall controller. After the space has been vacant for 15 minutes, the lights will automatically turn off. EMERGENCY: The emergency lights are controlled the same as normal lights. When power fails the switched emergency lights turn on. Local lighting control is resumed when power restored.
{LS1}	Sequence: Switched lights are controlled in this space. ON: The normal lights turn on by occupancy sensors in corridor. Night lights will remain on at all times. OFF: The normal lights turn off after the space has been vacant for 15 minutes. EMERGENCY: When power fails the emergency lights turn on.
{LS2}	Sequence: Switched lights are controlled in this space. ON: The lights turn on using switches. OFF: The lights turn off using switches. EMERGENCY: When power fails the emergency lights turn on.
{LS3}	Sequence: Switched lights are controlled in this space. ON: The lights turned on using switches. OFF: After the space has been vacant for 15 minutes, the lights will automatically turn off.
{LS4}	Sequence: Switched lights are controlled in this space. ON: The lights are turned on via an outdoor photocell when insufficient daylight is available. OFF: The lights are turned off via an outdoor photocell when sufficient daylight is available.



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CCEC DATA CENTER F
ROCKFORD, ILLINOIS ON

#20

DISTRIC

SCHOOL

PUBLIC 5

REM - REMOTE

RIC ASS

SHEET NUMBER

SHEET NUMBER

REAL PROPERTY OF THE PROPERTY OF

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				FEEDER									,	VOLTAGE DE	ROP				
													FEEDERS		BRANCI	I CIRCUITS			
		MAINS RATING / XFMR			CIRCUIT	CONNECTE	ESTIMATED DEMAND	CONNECTED	ESTIMATED DEMAND			FEEDER VOLTAGE	UPSTREAM FEEDERS VOLTAGE	FEEDER	MAX BRANCH	TOTAL VOLTAGE DROP AT MAX			
ITEM	VOLTAGE	RATING	UPSTREAM OCPD OR TERMINATION	WIRE AND RACEWAY	LENGTH	LOAD	LOAD	CURRENT	CURRENT	ESTIMATED ISC	SCCR	DROP	DROP	DROP	DROP	BRANCH	LEVEL	LOCATION	COMMENTS
PP-A1	120/208V, 3Ø4W	100 A MCB	100 A	4#1 & 1#4 EGC IN 2" C.	129'-4 81/128'	" 9.26 kVA	9.26 kVA	25.7 A	25.7 A		10 kA	1.46%		1.46%	2.02%	3.48%	LEVEL 01		
TILITY2	13200/7621:480/277V, 3Ø4V	V 750 kVA				480.69 kVA	419.32 kVA	578.2 A	504.4 A								LEVEL 01		
►MSB2	480/277V, 3Ø4W	1,000 A LSIG	1,000 A	(3) SETS OF 4#400 EACH IN 3" C.	149'-3 121/256	6" 480.69 kVA	419.32 kVA	578.2 A	504.4 A	22.00 kA	35 kA	0.76%		0.76%		0.76%	LEVEL 01		
L►MSB2-DIST	480/277V, 3Ø4W	1,000 A MLO	1,000 A	(3) SETS OF 4#400 & 1#2/0 EGC EACH IN 3" C.	23'-9 1/2"	480.69 kVA	419.32 kVA	578.2 A	504.4 A	21.21 kA	35 kA	0.12%	0.76%	0.88%	0.13%	0.88%	LEVEL 01		
F►ATS-O1	480/277V, 3Ø4W	400 A	400 A MCCB NORMAL, 400 A	4#600 & 1#3 EGC IN 3" C. NORMAL, 4#600 & 1#3 EGC IN 3" C. STANDBY	94'-10 15/32"	205.49 kVA	144.12 kVA	247.2 A	173.4 A	18.59 kA NORMAL, 3.62 kA STANDBY	35 kA	0.17%	0.88%	1.05%		1.05%	LEVEL 01		
L►ODP1	480/277V, 3Ø4W	300 A MCB	300 A	4#350 & 1#4 EGC IN 3" C.	26'-11 109/256	5" 205.49 kVA	144.12 kVA	247.2 A	173.4 A	16.70 kA	35 kA	0.13%	1.05%	1.18%		1.18%	LEVEL 01		
 - ► MP1	480/277V, 3Ø4W	250 A MCB	250 A	4#250 & 1#4 EGC IN 2 1/2" C.	14'-11 7/8"	172.6 kVA	115.06 kVA	207.6 A	138.4 A	15.66 kA	18 kA	0.08%	1.18%	1.26%	0.50%	1.76%	LEVEL 01		
L ►TR-01	480:120/208V, 3Ø4W	30 kVA	70 A	3#4 & 1#8 EGC IN 1" C.	25'-1 1/2"	32.9 kVA	29.06 kVA	91.3 A	80.7 A	11.37 kA PRIMARY, 4.32 kA SECONDARY		0.10%	1.18%	1.28%		1.28%	LEVEL 01		
L►RP1	120/208V, 3Ø4W	100 A MCB	100 A	4#2 & 1#8 SSBJ IN 1 1/4" C.	16'-4 1/8"	32.9 kVA	29.06 kVA	91.3 A	80.7 A	3.85 kA	10 kA	0.22%	1.28%	1.50%	2.77%	4.27%	LEVEL 01		
L►ATS-O2	480/277V, 3Ø4W	800 A	800 A MCCB NORMAL, 800 A	(2) SETS OF 4#600 & 1#1/0 EGC EACH IN 3 1/2" C. NORMAL, (2) SETS OF 4#600 & 1#1/0 EG EACH IN 3 1/2" C. STANDBY	0 97'-9 21/32"	275.2 kVA	275.20 kVA	331 A	331 A	19.67 kA NORMAL, 3.73 kA STANDBY	35 kA	0.19%	0.88%	1.07%		1.07%	LEVEL 01		SWITCH TRANSFERS 10 SECONDS AFFTER ATS-
L►TR-O2	480:120/208V, 3Ø4W	300 kVA	700 A	(2) SETS OF 3#500 & 1#1/0 EGC EACH IN 3" C.	39'-5 43/256"	275.2 kVA	275.20 kVA	763.9 A	763.9 A	18.26 kA PRIMARY, 22.14 kA SECONDARY		0.12%	1.07%	1.19%		1.19%	LEVEL 01		
⊩LDP1	120/208V, 3Ø4W	1,000 A MCB	1,000 A	(3) SETS OF 4#400 & 1#1/0 SSBJ EACH IN 3" C.	18'-4 69/128"	275.2 kVA	275.20 kVA	763.9 A	763.9 A	20.75 kA	42 kA	0.22%	1.19%	1.41%	0.50%	1.91%	LEVEL 01		

				FEEDER										VOLTAGE	ROP				
													FEEDERS		BRANC	H CIRCUITS			
													UPSTREAM	TOTAL	MAX	TOTAL			
							ESTIMATED		ESTIMATED			FEEDER	FEEDERS		BRANCH	VOLTAGE			
1		MAINS RATING / XFMR			CIRCUIT	CONNECTED	DEMAND	CONNECTED	DEMAND			VOLTAGE	VOLTAGE	VOLTAGE	VOLTAGE	DROP AT MAX			
ITEM	VOLTAGE	RATING	UPSTREAM OCPD OR TERMINATION	WIRE AND RACEWAY	LENGTH	LOAD	LOAD	CURRENT	CURRENT	ESTIMATED ISC	SCCR	DROP	DROP	DROP	DROP	BRANCH	LEVEL	LOCATION	COMMENTS
GEN-400	480/277V, 3Ø4W	400 kW / 500 kVA				480.69 kVA	419.32 kVA	578.2 A	504.4 A	3.86 kA	14 kA						LEVEL 01		
⊩►ATS-O1	480/277V, 3Ø4W	400 A	400 A MCCB NORMAL, 400 A	4#600 & 1#3 EGC IN 3" C. NORMAL, 4#600 & 1#3 EGC IN 3" C. STANDBY	94'-10 15/32"	205.49 kVA	144.12 kVA	247.2 A	173.4 A	18.59 kA NORMAL, 3.62 kA STANDBY	35 kA	0.48%				0.48%	LEVEL 01		
∥ ⊩ODP1	480/277V, 3Ø4W	300 A MCB	300 A	4#350 & 1#4 EGC IN 3" C.	26'-11 109/256	' 205.49 kVA	144.12 kVA	247.2 A	173.4 A	16.70 kA	35 kA	0.13%	0.48%	0.61%		0.61%	LEVEL 01		
⊩►MP1	480/277V, 3Ø4W	250 A MCB	250 A	4#250 & 1#4 EGC IN 2 1/2" C.	14'-11 7/8"	172.6 kVA	115.06 kVA	207.6 A	138.4 A	15.66 kA	18 kA	0.08%	0.61%	0.69%	0.50%	1.19%	LEVEL 01		
 	480:120/208V, 3Ø4W	30 kVA	70 A	3#4 & 1#8 EGC IN 1" C.	25'-1 1/2"	32.9 kVA	29.06 kVA	91.3 A	80.7 A	11.37 kA PRIMARY, 4.32 kA SECONDARY		0.10%	0.61%	0.71%		0.71%	LEVEL 01		
L►RP1	120/208V, 3Ø4W	100 A MCB	100 A	4#2 & 1#8 SSBJ IN 1 1/4" C.	16'-4 1/8"	32.9 kVA	29.06 kVA	91.3 A	80.7 A	3.85 kA	10 kA	0.22%	0.71%	0.93%	2.77%	3.70%	LEVEL 01		
L►ATS-O2	480/277V, 3Ø4W	800 A	800 A MCCB NORMAL, 800 A	(2) SETS OF 4#600 & 1#1/0 EGC EACH IN 3 1/2" C. NORMAL, (2) SETS OF 4#600 & 1#1/0 EGC	97'-9 21/32"	275.2 kVA	275.20 kVA	331 A	331 A	19.67 kA NORMAL, 3.73 kA STANDBY	35 kA	0.49%				0.49%	LEVEL 01		SWITCH TRANSFERS 10
				EACH IN 3 1/2" C. STANDBY															SECONDS AFFTER ATS-01.
L►TR-O2	480:120/208V, 3Ø4W	300 kVA	700 A	(2) SETS OF 3#500 & 1#1/0 EGC EACH IN 3" C.	39'-5 43/256"	275.2 kVA	275.20 kVA	763.9 A	763.9 A	18.26 kA PRIMARY, 22.14 kA SECONDARY		0.12%	0.49%	0.61%		0.61%	LEVEL 01		
LDP1	120/208V, 3Ø4W	1,000 A MCB	1,000 A	(3) SETS OF 4#400 & 1#1/0 SSBJ EACH IN 3" C.	18'-4 69/128"	275.2 kVA	275.20 kVA	763.9 A	763.9 A	20.75 kA	42 kA	0.22%	0.61%	0.83%	0.50%	1.33%	LEVEL 01		

						МОТ	ORS			LECTRIC IEATING											DISCO	NNECT	CONTRO / STAF		
ITEM	LOCATION	VOLTAGE LOAD	CLASS. MOT	OR QTY	@ HF	QTY @) HP	QTY @		LEMENT (KW)	APPARENT LOAD	FLA	MCA	МОСР	OCPD	REQ EMER	CIRCUIT NUMBER	WIRE AND RACEWAY	ISC	SCCR	BY	TYPE	BY	TYPE	COMMENTS
			<u>'</u>								•			-			1					1			
SSC-1		208 V, 1Ø HVAC C	ooling Only Yes	0	- 0	0 -	0	0 -	0	0	0.08 kVA	0.4 A	19.5 A	20 A	0 A	Yes			0 A	5,000 A	E.C.	NF	MFR	F	FED FROM EXTERIOR UNIT.
SSC-2		208 V, 1Ø HVAC C			- 0	0 -	0	0 -	0	0	0.08 kVA	0.4 A	19.5 A	20 A	0 A	Yes			0 A	5,000 A	E.C.	NF	MFR	F	FED FROM EXTERIOR UNIT.
SSC-3		208 V, 1Ø HVAC C	ooling Only Yes	0	- 0	0 -	0	0 -	0	0	0.08 kVA	0.4 A	19.5 A	20 A	0 A	Yes			0 A	5,000 A	E.C.	NF	MFR	F	FED FROM EXTERIOR UNIT.
P1																									
OVERHEAD POWER DISTRIBUTION		208 V, 3Ø Power	No	0	- 0	0 -	0	0 -	0	0	68.80 kVA	0 A	0 A	250 A	250 A	Yes	1	3#250 & 1#4 EGC IN 2" C.	13,295.6 A	0 A					
OVERHEAD POWER DISTRIBUTION		208 V, 3Ø Power	No	0	- 0	0 -	0	0 -	0	0	68.80 kVA	0 A	0 A	250 A	250 A	Yes	2	3#250 & 1#4 EGC IN 2" C.	14,541.9 A	0 A					
OVERHEAD POWER DISTRIBUTION		208 V, 3Ø Power	No	0	- 0	0 -	0	0 -	0	0	68.80 kVA	0 A	0 A	250 A	250 A	Yes	3	3#250 & 1#4 EGC IN 2" C.	15,252.3 A	0 A					
OVERHEAD POWER DISTRIBUTION		208 V, 3Ø Power	No	0	- 0	0 -	0	0 -	0	0	68.80 kVA	0 A	0 A	250 A	250 A	Yes	4	3#250 & 1#4 EGC IN 2" C.	16,972.8 A	0 A					
P1		1	I								1	1	1			<u> </u>	1		<u> </u>	1		1			
CRU-1		480 V, 3Ø HVAC	Yes	1	@ 4.2	2 0 -	0	0 -	0	0	50.71 kVA	61 A	66 A	80 A	80 A	Yes	7,9,11	3#4 & 1#8 EGC IN 1" C.	8,052.1 A	0 A	MFR	MFR	I-COM		
CRU-2		480 V, 3Ø HVAC	Yes			2 0 -			0	0	50.71 kVA	61 A	66 A		80 A		2,4,6	3#4 & 1#8 EGC IN 1" C.	7,427.6 A	0 A			I-COM		
CRU-3		480 V, 3Ø Redunda)	2 0 -				0	50.71 kVA	61 A	66.2 A		80 A	Yes	1,3,5	3#4 & 1#8 EGC IN 1" C.	6,799.8 A	0 A			I-COM		
CU-CRU-1		480 V, 3Ø HVAC	No			0 -				0	4.66 kVA	5.6 A	6 A		15 A	Yes	8,10,12	3#12 & 1#12 EGC IN 3/4" C.	1,966.2 A	0 A	MFR		NOTE 1		
CU-CRU-2		480 V, 3Ø HVAC	No	0	- 0	0 -	0	0 -	0	0	4.66 kVA	5.6 A	6 A	15 A	15 A	Yes	13,15,17	3#12 & 1#12 EGC IN 3/4" C.	2,433 A	0 A	MFR	NF	NOTE 1		
CU-CRU-3		480 V, 3Ø Redunda	int No	0	- 0	0 -	0	0 -	0	0	4.66 kVA	5.6 A	6 A	15 A	15 A	Yes	14,16,18	3#12 & 1#12 EGC IN 3/4" C.	3,148.1 A	0 A	MFR	NF	NOTE 1		
PRE-1		480 V, 3Ø HVAC	Yes	1	@ 1.6	3 0 -	0	0 -	0	0	2.16 kVA	2.6 A	3 A	15 A	15 A	Yes	19,21,23	3#12 & 1#12 EGC IN 3/4" C.	1,842.6 A	0 A	MFR	NON-L OCKIN	NOTE 1		
PRE-2		480 V, 3Ø HVAC	Yes	1	@ 1.6	3 0 -	0	0 -	0	0	2.16 kVA	2.6 A	3 A	15 A	15 A	Yes	20,22,24	3#12 & 1#12 EGC IN 3/4" C.	2,232.9 A	0 A	MFR	NON-L OCKIN	NOTE 1		
PRE-3		480 V, 3Ø Redunda	nt Yes	1	@ 1.6	3 0 -	0	0 -	0	0	2.16 kVA	2.6 A	3 A	15 A	15 A	Yes	25,27,29	3#12 & 1#12 EGC IN 3/4" C.	2,858.8 A	0 A	MFR	NON-L OCKIN G	NOTE N 1		
P-A1							I . I					1					1								
CU-SSC-3		208 V, 1Ø HVAC	No	0	- 0	0 -	0	0 -	0	0	4.16 kVA	0 A	20 A	25 A	25 A	No	2,4	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	E.C.	NF	MFR		
P1		1001/10	Τ								0.001:11			1 4= -				0//40 0 4//40 500 500 5	0000	1 2.		1			
BATTERY CHARGER		120 V, 1Ø Power	No No			0 -				0	0.36 kVA	0 A	0 A		20 A		22	2#12 & 1#12 EGC IN 3/4" C.	309.8 A	0 A		ļ <u>-</u>	+	+	
CAB-1		208 V, 1Ø HVAC H		1	@ 0.1	3 0 -	0		0	0	0.50 kVA	2.4 A	3 A		15 A	Yes	1,3	2#12 & 1#12 EGC IN 3/4" C.	643.2 A	0 A	E.C.		MFR	+	
CU-SSC-1		208 V, 1Ø HVAC C		0	- 0	0 -	0	0 -	0	0	4.06 kVA	0 A	19.5 A	25 A			14,16	2#12 & 1#12 EGC IN 3/4" C.	814.3 A	0 A	E.C.		MFR	+	
CU-SSC-2 FAP-1		208 V, 1Ø HVAC C								0	4.16 kVA	0 A	20 A	25 A		Yes	17,19	2#12 & 1#12 EGC IN 3/4" C.	763.1 A	0 A	E.C.	NF	MFR		
ι ΕΔΡ_1 Ι		120 V, 1Ø Power	No	0	- 0	0 -	0	U -	U	U	0.60 kVA	0 A	0 A	15 A	20 A	Yes	23	2#12 & 1#12 EGC IN 3/4" C.	970.9 A	0 A		1	1 1	(L	

ENCLOSURE: NEMA 1 FED FROM: 1,000 A/3P @ TR-O2			NEUTRAL ND BUS	MAIN: 1,000 A MCB VOLTS: 120/208 Wye PHASE: 3	
DI	STRIBUTIO	N PANEL	LDP1		
20					
19					
18					
17					
16					
14 15					
13					
12					
11					
10					
9					
8					
7					
6					

FED FRO	RE: NEMA 1 OM: 1,000 A/3P @ TR-O2 ON: PD: SPD-2				SOLID N GROUN	IEUTRAL ND BUS		MAIN: 1,000 A MCE VOLTS: 120/208 Wye PHASE: 3 WIRE: 4 SCCR: 42 kA ISC: 20.75 kA	;	
OTES: N	MAIN BREAKER TO HAVE SHUNT	TRIP.								
жт	LOAD DESCRIPTION	Load	POLES	FRAME	TRIP	TYPE	ACC.	WIRE AND RACEWAY		CIRCU KEY
1 Powe	er; OVERHEAD POWER DISTRIBUTION	68.8 kVA	3	250 A	250 A	СВ		3#250 & 1#4 EGC IN 2" C.		-
2 Powe	er; OVERHEAD POWER DISTRIBUTION	68.8 kVA	3	250 A	250 A	СВ		3#250 & 1#4 EGC IN 2" C.		
3 Powe	er; FUTURE OVERHEAD POWER	68.8 kVA	3	250 A	250 A	СВ		3#250 & 1#4 EGC IN 2" C.		
4 Powe	er; FUTURE OVERHEAD POWER	68.8 kVA	3	250 A	250 A	СВ		3#250 & 1#4 EGC IN 2" C.		
		LC	AD SUMI	MARY (IN	CLUDES	ALL TUBS IN	THIS PANE	L)		
D CLASSIF	FICATION	CONNECTED) LOAD [DEMAND I	FACTOR	ESTIMATE	DEMAND	TOTALS*		
er		275.2 k\	/A	100.0	0%	275.2	kVA			
								TOTAL CONNECTED LOAD:	275.20 kV	
								TOTAL ESTIMATED DEMAND LOAD:	275.2 kVA	\
								TOTAL CONNECTED AMPS:	763.88 A	
								TOTAL ESTIMATED DEMAND AMPS:	763.9 A	
*TOTA		 NY REDUNDAN	T LOAD A	ND THE S	MALLER	OF ANY NO	NCOINCIDE	 NT HVAC LOADS. THIS CALC IS DONE A	⊥ T EAC	H P/

						GEN-	400			
	ENCLOSURE: NEMA 3R LTERNATOR kW: 400 .TERNATOR kVA: 500					IEUTRAL ND BUS		VOLTS: 480/277 Wye PHASE: 3 WIRE: 4 SCCR: 14 kA ISC: 3.86 kA		
NOTES:	GENERATOR BREAKER SCHED	ULE.								
СКТ	LOAD DESCRIPTION	LOAD	POLES	FRAME	TRIP	TYPE	ACC.	WIRE AND RACEWAY		CIRCUIT KEY
1	ATS-O1	205.49 kVA	3	400 A	400 A			4#600 & 1#3 EGC IN 3" C.		
2	ATS-O2	275.2 kVA	3	800 A	800 A			(2) SETS OF 4#600 & 1#1/0 EGC EACH IN 3 1/	'2" C.	
3										
4										
				L	DAD SU	MARY				
OAD CLA	ASSIFICATION	CONNECTED	LOAD	DEMAND I	FACTOR	ESTIMATE	D DEMAND	TOTALS*		
VAC		115.064 k	:VA	100.0	0%	115.06				
VAC Coo		8.216 k\	/A	100.0	0%	8.216	6 kVA	TOTAL CONNECTED LOAD:	480.69 k\	
VAC Hea	ting Only	0.499 kV	/A	100.0	0%	0.499) kVA	TOTAL ESTIMATED DEMAND LOAD:	419.321 I	κVA
ghting		1.541 k\	/A	100.0	0%	1.541		TOTAL CONNECTED AMPS:	578.18 A	
ther		0 kVA		0.00	%	0 k		TOTAL ESTIMATED DEMAND AMPS:	504.4 A	
ower		281.16 k		100.0		281.10				
	s	16.68 kV		79.98		13.34	ł kVA			
eceptacle edundant		57.532 kVA		100.00%		57.532 kVA				

		DISTRIB	UTIC	N PA	NEL	ODP1		
FEC	OSURE: NEMA 1 O FROM: 300 A/3P @ ATS-O1 CATION:				SOLID N GROUN	IEUTRAL ND BUS	MAIN: 300 A MC VOLTS: 480/277 Wy PHASE: 3 WIRE: 4 SCCR: 35 kA ISC: 16.70 kA	
NOTES	3 :							
СКТ	LOAD DESCRIPTION	Load	POLES	FRAME	TRIP	TYPE ACC	C. WIRE AND RACEWAY	CIRCU
1	MP1	172.6 kVA	3	250 A	250 A		4#250 & 1#4 EGC IN 2 1/2" C.	
2	TR-01	32.9 kVA	3	150 A	70 A		3#4 & 1#8 EGC IN 1" C.	
3								
4								
						ALL TUBS IN THIS PA	,	
	ASSIFICATION					ESTIMATED DEMAI	ND TOTALS*	
HVAC		115.064 k		100.0		115.064 kVA		
	oling Only	8.216 k\		100.0		8.216 kVA	TOTAL CONNECTED LOAD:	205.49 kVA
	ating Only	0.499 k\		100.0		0.499 kVA	TOTAL ESTIMATED DEMAND LOAD:	
ighting		1.541 k\		100.0		1.541 kVA	TOTAL CONNECTED AMPS:	247.17 A
Other		0 kVA		0.00		0 kVA	TOTAL ESTIMATED DEMAND AMPS:	173.4 A
ower		5.96 kV		100.0		5.96 kVA		
eceptacl edundar		16.68 k\		79.98		13.34 kVA		
	n†	57.532 kVA		100.00%		57.532 kVA		

ELECTRICAL DISTRIBUTION AND PANEL SCHEDULE NOTES:

1. BRANCH PANEL KEY: a. *A = ARC FAULT CIRCUIT INTERRUPT
b. *G = GROUND FAULT CIRCUIT INTERRUPT

c. *I = ISOLATED GROUND

d. *M = BRANCH CIRCUIT METER
e. *P = PADLOCK HASP

f. *R = RED HANDLE g. *S = SHUNT TRIP

h. *NB = NEW BREAKER i. *RB = REPLACE EXISTING BREAKER WITH NEW BREAKER
j. *EB = EXISTING BREAKER

DISTRICT ROCKFORD, ILLINOIS

#202

JOHN SON ARCHITECTS SD SD RICHAR ASSOCIA

SHEET NUMBER

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Illinois Design Firm Registration #184008976-0014

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PANEL MP1 SINGLE TUB **SOLID NEUTRAL GROUND BUS**

MAIN: 250 A MCB VOLTS: 480/277 Wye PHASE: 3 WIRE: 4 SCCR: 18 kA **ISC:** 15.66 kA

NOTES:

*S 1 HVAC; CRU-1 80 A 3 4 8 0.5 16.9 16.9 0.43 8 4 3 80 A HVAC; CRU-2 3 16.9 16.9 16.9	CKT NO.	LOAD DESCRIPTION	OC!	OCPI		ь	S	WIR SIZ N	Έ		VD %	A	4	E	В	(VD %		WIRI SIZE N		CPD AMPS	LOAD DESCRIPTION	CKT NO.
3 3						_		1				16.0	16.0											2
5		_				_	_	+	+			10.5	10.3	16.0	16.0						-			4
*** 7 Redundant; CRU-3		_	_			_	\rightarrow			_				10.3	10.5	16.0	16.0							6
9		Redundant: CRI I-3				_	_		_			16 0	1 55			10.5	10.5							8
11 15 15 A 3 12 12 0.19 1.55 1.55 12 0.14 12 12 3 15 A Redundant; CU-3 15 17 15 A 3 12 12 0.19 1.55 1.55		-				-		+	_	-		10.5	1.00	16.0	1 55									10
13 HVAC; CU-2			_			_	-	+	_					10.5	1.00	16.9	1 55							12
15 17 15 A 3 12 12 0.12 0.72 0.72 11 SPACE 21		IVAC: CII-2					_	+				1 55	1 55			10.5	1.00						Redundant: CLL-3	14
17 17 15 A 3 12 12 0.12 0.72 0.72 12 0.1 12 12 3 15 A HVAC; PRE-2 21		-				_	_	_	_			1.00	1.00	1 55	1 55									16
19 HVAC; PRE-1 15 A 3 12 12 0.12 0.72 0.72						+	\rightarrow	+	+					1.00	1.00	1 55	1 55							18
21		IVAC: PRF-1				_						0.72	0.72			1.00	1.00						HVAC: PRF-2	20
23		-						+				··· <u>-</u>	02	0.72	0.72									22
25 Redundant; PRE-3 15 A 3 12 12 0.07 0.72 0.72 1 1 SPACE 27 1 SPACE 29 1 1 SPACE 31 SPACE 33 SPACE 1 1 1 SPACE 35 SPACE 37 SPACE 39 SPACE 1 1 1 SPACE 39 SPACE 1 1 SPACE 1 1 SPACE 1 1 SPACE 39 SPACE 1 1 SPACE 1 1 SPACE		-				<u> </u>		† <u></u>	Η	_						0.72	0.72				 			24
27		Redundant: PRE-3	15 A	5 A	3	12	12		1:	2 0	0.07	0.72				• • • •					 1		SPACE	26
- 29		-						1						0.72										28
31 SPACE 1 1 1 SPACE 33 SPACE 1 1 1 SPACE 35 SPACE 1 1 1 SPACE 37 SPACE 1 1 1 SPACE 39 SPACE 1 1 1 SPACE 41 SPACE 1 1 1 SPACE 1 SPACE 1 SPACE 1 1 SPACE 1 SPACE 1 SPACE 1 SPACE		-				Ť		† <u></u>	Τ.	_						0.72					 1			30
33 SPACE 1 1 1 SPACE 35 SPACE 1 1 SPACE 37 SPACE 1 1 SPACE 39 SPACE 1 1 SPACE 41 SPACE 1 1 SPACE Total Load: 57.53 kVA 57.53 kVA		SPACE			1	T			Τ.	_														32
35 SPACE 1 1 SPACE 37 SPACE 1 1 SPACE 39 SPACE 1 1 SPACE 41 SPACE 1 1 SPACE Total Load: 57.53 kVA 57.53 kVA					1				T -	-											 1			34
39 SPACE 1 1 SPACE 41 SPACE 1 1 SPACE Total Load: 57.53 kVA 57.53 kVA	35 S	SPACE			1				T -	-											 1			36
41 SPACE 1 1 SPACE Total Load: 57.53 kVA 57.53 kVA	37 S	SPACE			1	T			T	-											 1		SPACE	38
Total Load: 57.53 kVA 57.53 kVA 57.53 kVA	39 S	SPACE			1				T	-											 1		SPACE	40
	41 S	SPACE			1				T	-											 1		SPACE	42
Total Amps: 207.70 207.70						ı		Т	ota	ıl Lo	ad:	57.53	3 kVA	57.53	3 kVA	57.53	3 kVA						1	
								To	otal	Am	ıps:	207	7.70	207	7.70	207	7.70							
											- '										J			
LOAD SUMMARY OAD CLASSIFICATION CONNECTED LOAD DEMAND FACTOR ESTIMATED DEMAND					_														-					

TOTALS* 115.064 kVA 100.00% 115.064 kVA Redundant 57.532 kVA 100.00% 57.532 kVA TOTAL CONNECTED LOAD: 172.60 kVA TOTAL ESTIMATED DEMAND LOAD: 115.064 kVA TOTAL CONNECTED AMPS: TOTAL ESTIMATED DEMAND AMPS: 138.4 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL CIRCUIT KEY NOTES: *S = SHUNT TRIP BREAKER

MOUNTING: SURFACE **ENCLOSURE**: NEMA 1 FED FROM: 100 A/3P @ LDP-N LOCATION:

PANEL PP-A1 SINGLE TUB **SOLID NEUTRAL GROUND BUS**

MAIN: 100 A MCB VOLTS: 120/208 Wye PHASE: 3 WIRE: 4 SCCR: 10 kA ISC UNKNOWN 0.00 kA

CIRCUIT KEY NOTES:

K	- 1				١ ١	WIR	E				_	_		_			WIRI						K
E	CK	(T	OCI	PD		SIZE	•	VD	/	4	E	3	(С	VD		SIZE		0	CPD		CKT	E
Y	NC	D. LOAD DESCRIPTION	AMPS	P	Н	Ν	G	%							%	G	N	Н	Р	AMPS	LOAD DESCRIPTION	NO.	Y
	1	Receptacles	20 A	1	12	12	12	1.41	1.92	2.08					2.02	12		12	2	25 A	HVAC; SSC-3	2	
	3	Receptacles	20 A	1	12	12	12	1.25			1.92	2.08										4	
	5	Receptacles	20 A	1	12	12	12	0.21					0.54	0.36	0.12	12	12	12	1	20 A	Receptacles	6	
	7	SPARE	20 A	1					0	0									1	20 A	SPARE	8	
	9	SPARE	20 A	1							0	0							1	20 A	SPARE	10	
	11	1 SPARE	20 A	1									0	0.36	0.15	12	12	12	1	20 A	Receptacles	12	
	13	3 SPARE	20 A	1					0	0									1	20 A	SPARE	14	
	15	5 SPARE	20 A	1							0	0							1	20 A	SPARE	16	
	17	7 SPARE	20 A	1									0	0					1	20 A	SPARE	18	
	•				•	To	otal l	Load:	4.00	kVA	4.00	kVA	1.26	kVA			•			•			
						То	tal A	mps:	36	.85	36	.85	10	.50									

		LOAD SU	MMARY		
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTAL C*	
HVAC	4.16 kVA	100.00%	4.16 kVA	TOTALS*	
Receptacles	5.1 kVA	100.00%	5.1 kVA	TOTAL CONNECTED LOAD:	9.26 kVA
				TOTAL ESTIMATED DEMAND LOAD:	9.26 kVA
				TOTAL CONNECTED AMPS:	25.70 A
				TOTAL ESTIMATED DEMAND AMPS:	25.7 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

MOUNTING: SURFACE **ENCLOSURE**: NEMA 1 **FED FROM**: 100 A/3P @ TR-O1 LOCATION:

SPD: SPD-2

LOAD CLASSIFICATION

CIRCUIT KEY NOTES:

HVAC Cooling Only

HVAC Heating Only

PANEL RP1 SINGLE TUB **SOLID NEUTRAL GROUND BUS**

MAIN: 100 A MCB **VOLTS**: 120/208 Wye **PHASE**: 3 WIRE: 4 SCCR: 10 kA ISC: 3.85 kA

TOTALS*

TOTAL CONNECTED LOAD:

NOTES: MAIN BREAKER TO HAVE SHUNT TRIP.

K E	СКТ		OCF	PD		WIRI SIZE	_	VD		A	E	3	C	;	VD		WIRI SIZE	_	0	CPD		СКТ	K
Y	NO.	LOAD DESCRIPTION	AMPS		Н	N	G	%							%	G	N	Н	_	AMPS	LOAD DESCRIPTION	NO.	Y
	1	HVAC Heating Only	15 A	2	12		12	0.3	0.25	0.9					1.86	12	12	12	1	20 A	Receptacles	2	
-	3										0.25	0.72			0.53	12	12	12	1	20 A	Receptacles	4	
	5	Receptacles	20 A	1	12	12	12	1.81					1.92	1.54	2.77	8	8	8	1	20 A	Lighting	6	
	7	Receptacles	20 A	1	12	12	12	2.41	1.92	1.92					2.25	12	12	12	1	20 A	Receptacles	8	
	9	Receptacles	20 A	1	12	12	12	2.09			1.92	1.92			1.91	12	12	12	1	20 A	Receptacles	10	
	11	Receptacles	20 A	1	12	12	12	1.74					1.92	1.92	2.16	12	12	12	1	20 A	Receptacles	12	
	13	Receptacles	20 A	1	12	12	12	0.5	0.36	2.03					1.79	12		12	2	25 A	HVAC Cooling Only; SSC-1	14	
	15	Receptacles	20 A	1	12	12	12	0.24			0.36	2.03										16	-
	17	HVAC Cooling Only; SSC-2	25 A	2	12		12	2					2.08	0.36	8.0	12	12	12	1	20 A	Receptacles	18	
	19								2.08	0.54					0.36	12	12	12	1	20 A	Receptacles	20	
	21	Other; SMOKE DAMPER	20 A	1	12	12	12				0	0.36			0.89	12	12	12	1	20 A	Power; BATTERY CHARGER	22	
	23	Power; FAP-1	20 A	1	12	12	12	0.36					0.6	2.5	2.41	10		10	2	30 A	Power; JACKET HEATER	24	
-	25	SPARE	20 A	1					0	2.5												26	-
	27	SPARE	20 A	1							0	0							1	20 A	SPARE	28	-
-	29	SPARE	20 A	1									0	0					1	20 A	SPARE	30	-
-	31	SPARE	20 A	1					0	0									1	20 A	SPARE	32	-
-	33	SPARE	20 A	1							0	0							1	20 A	SPARE	34	-
-	35	SPARE	20 A	1									0	0					1	20 A	SPARE	36	-
-	37	SPARE	20 A	1					0	0									1	20 A	SPARE	38	-
-	39	SPARE	20 A	1							0	0							1	20 A	SPARE	40	-
-	41	SPARE	20 A	1									0	0					1	20 A	SPARE	42	-
						To	tal l	_oad:	12.50	0 kVA	7.56	kVA	12.84	kVA									
					-	To	tal A	mps:	110	0.48	62.	.98	113	.34		-	-						

Lighting	1.541 kVA	100.00%	1.541 kVA	TOTAL ESTIMATED DEMAND LOAD:	29.057 kVA			
Other	0 kVA	0.00%	0 kVA	TOTAL CONNECTED AMPS:	91.31 A			
Power	5.96 kVA	100.00%	5.96 kVA	TOTAL ESTIMATED DEMAND AMPS:	80.7 A			
Receptacles	16.68 kVA	79.98%	13.34 kVA					
*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.								

LOAD SUMMARY

8.216 kVA

0.499 kVA

CONNECTED LOAD DEMAND FACTOR ESTIMATED DEMAND

100.00%

100.00%

8.216 kVA

0.499 kVA

SD SD

#202

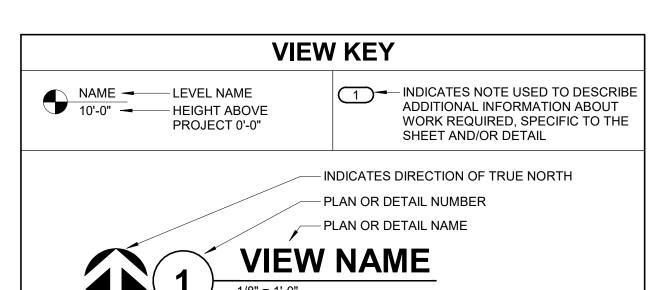
DISTRICT

CCEC DATA CENTER RENOVATIONS
ROCKFORD, ILLINOIS

JOHN SON ARCHITECTS

SHEET NUMBER

623 26TH AVENUE ROCK ISLAND, IL 61201 P: 309.788.0673 F: 309.786.5967 IMEG RESERVES PROPRIETARY RIGHTS. INCLUDING COPYRIGHTS. TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING
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INDICATES SIMILAR DETAIL REFERENCED -IN MULTIPLE LOCATIONS DETAIL REFERRED TO BY SECTION CUT-- SHEET DETAIL IS LOCATED ON -

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)

---- EXISTING TO BE REMOVED (SHORT DASHED PATTERN) — — NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE) EXISTING

EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN) — — EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

LOCAL BUILDING CODE:

TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL

INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

FIRE / SMOKE BARRIER DESIGNATIONS

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

ALL FLOOR AND ROOF CEILING ASSEMBLIES SHALL BE DESIGNATED AS 1 HOUR FIRE BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS.

1 HOUR FIRE WALL

APPLICABLE CODES CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: BUILDING CODE: **IBC 2015 EDITION** PLUMBING CODE: IL PLUMBING CODE 2014 EDITION FIRE CODE: IFC 2015 EDITION MECHANICAL CODE: IMC 2015 EDITION **ELECTRICAL CODE**: NFPA 70 2014 EDITION LIFE SAFETY CODE: **NFPA 101 2015 EDITION ENERGY CONSERVATION CODE:** IECC 2018 **HEALTH DEPARTMENT CODE:** CURRENT EDITION

CONTRACTOR ABBREVIATION KEY					
ABBR:	DESCRIPTION:				
A.C.	ASBESTOS ABATEMENT CONTRACTOR				
C.M.	CONSTRUCTION MANAGER				
E.C.	ELECTRICAL CONTRACTOR				
F.P.C.	FIRE PROTECTION CONTRACTOR				
G.C.	GENERAL CONTRACTOR				
M.C.	MECHANICAL CONTRACTOR				
P.C.	PLUMBING CONTRACTOR				
T.C.	TECHNOLOGY CONTRACTOR				
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR				

CURRENT EDITION

PLUMBING SYMBOL LIST								
	NOT ALL SYMBOLS MAY APPLY.							
SYMBOL:	DESCRIPTION:							
CW	COLD WATER - POTABLE							
D	DRAIN							
——DI——	DEIONIZED WATER							
——G—	NATURAL GAS							
——GRV——	GAS REGULATOR VENT							
——HW——	HOT WATER - POTABLE							
—NCW—	NON-POTABLE COLD WATER							
—NHW—	NON-POTABLE HOT WATER							
——PD——	PUMPED DISCHARGE STORM DRAINAGE (BOOF SOLIABE FOOTAGE)							
—ST(1,000)—	STORM DRAINAGE (ROOF SQUARE FOOTAGE) STORM DRAINAGE (SECONDARY)							
V	VENT							
<u></u>	PIPE CONTINUATION							
	PIPE CAP							
	PIPE DOWN							
	PIPE UP OR UP/DOWN							
—— о FD	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)							
	PITCH PIPE IN DIRECTION							
	DIRECTION OF FLOW IN PIPE							
7	ROUTE TO DRAIN							
<u>RD-1</u> 6"(1000)	ROOF DRAIN PROPERTIES SYMBOL SIZE (ROOF SQ. FT.)							
——————————————————————————————————————	DIELECTRIC CONNECTION							
	UNION/FLANGE							
——⋈——	SHUTOFF VALVE NORMALLY OPEN							
→	SHUTOFF VALVE NORMALLY CLOSED							
—— <mark>⊯</mark> GPM_	BALANCING VALVE (NUMBER INDICATES GPM)							
	CHECK VALVE							
	BACKFLOW PREVENTER							
→ 	SOLENOID VALVE							
*	SAFETY/RELIEF VALVE							
<u>ا</u>	SAFETY RELIEF VALVE							
T	W/ DRIP PAN ELBOW							
Y	VACUUM BREAKER							
— ₩ -®	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)							
— × ₽	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)							
	TEMPERATURE SENSOR WITH WELL							
	THERMOMETER WITH WELL (DIAL TYPE)							
	THERMOMETER WITH WELL (FILLED TYPE)							
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB PRESSURE REDUCING VALVE (LIQUID/GAS)							
—(D)—	PUMP							
	METER							

CONTACT PERSONS:						
DESCRIPTION:	PERSON:					
PROJECT MANAGER	BRANDON PIERSON					
MECHANICAL	DREW MINAS					
ELECTRICAL	JEREMY VETTING					
TECHNOLOGY	ALAN SWANSON					

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ELECTRICAL	JEREMY VETTING					
TECHNOLOGY	ALAN SWANSON					

BEGIN 7. REFE PLUM 8. EXIST SCOP ADDIT 9. P.C. S UNLE	Y UNDERGROUND PIPE SIZES, IN INING ANY WORK. R TO THE PLUMBING ROUGH-IN SING FIXTURES. ING CONDITIONS ON DEMOLITIONE OF ITEMS TO BE REMOVED. RETIONAL DEMOLITION INFORMATIONED TO BE A SISTING SINOTED OTHERWISE. REFER TRACTION.	SCHEDULE I N PLANS AF EFER TO SP DN. AS REQUIR	FOR THE SIZE PROVIDE ECIFICATION	ZES OF BRA D TO INDICA N SECTION W OR DEMO	ANCH PIPES ATE THE GE 22 05 05 FOR
	PLUMBING SLC	PE R	EQUIR	EMEN	ITS:
		BASED ON	PLUMBING	CODE: IL PI	LUMBING CO
INTERIOR SANITARY		00Т)Т)ОТ			
STORM (C	GRAVITY):	1/8" PEF			
CONDENS	SATE AND INDIRECT DRAINAGE: C WATER:		CIFIC PITCH	H, PITCH TO	FIXTURES
CONDENS		NO SPE	CIFIC PITCH		FIXTURES
PLUN NOTES: 1) SIZES SHROUGH-IN	C WATER:	SCHE IZES SHOW WALL TO F	DULE N ON THE D IXTURES SH	RAWING SH IALL BE A M SHALL BE A	IALL DICTATI
PLUN NOTES: 1) SIZES SHROUGH-IN	IBING ROUGH-IN HOWN ARE MINIMUMS. LARGER S SIZE. 2) SANITARY RISERS UP IN WATER BRANCH PIPING OUTSID	SCHE IZES SHOW WALL TO F	EDULE N ON THE D IXTURES SH	RAWING SH	IALL DICTATI

PLUMBING GENERAL NOTES:

1. THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR.

2. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO

RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN

THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES.

PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE

5. INVERT ELEVATIONS ARE FROM EXISTING DRAWINGS AND MAY NOT BE ACCURATE. VERIFY

THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS

3. CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL

FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.

APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.

4. ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S.3874

ALL ELEVATIONS BEFORE BEGINNING WORK.

CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR

PLUMBING ABBREVIATION KEY

DESCRIPTION:

ABOVE FINISHED FLOOR

BACKFLOW PREVENTER

DRINKING FOUNTAIN

EMERGENCY EYEWASH

EMERGENCY SHOWER

FLOOR CLEANOUT

FLOOR DRAIN

FLOW METER

FLOOR SINK

HOSE BIBB

LAVATORY

MOP BASIN

MIXING VALVE

ROOF DRAIN

TRENCH DRAIN

VENT THROUGH ROOF

WATER CLOSET

WALL CLEANOUT

WATER HEATER

WATER METER

TRAP PRIMER

TYPICAL

URINAL

SINK

ELECTRIC WATER COOLER

EMERGENCY SHOWER/EYEWASH

INVERT ELEVATION (FOR REFERENCE ONLY)

SHORT CIRCUIT CURRENT RATING

ACCESS DOOR

CAST IRON

CLEANOUT

DOWN

EXISTING

DUCTILE IRON

CO

DN

ESE

EWC

FCO

LAV

SCCR

TYP

WC

WCO

ING ROUGH-IN SCHEDULE

	WATER BRANCH PIPING OUTSIDI					,
TAG NAME	DESCRIPTION	TRAP	COLD WATER	HOT WATER	SANITARY	VENT
HB-1	HOSE BIBB (ROOF HYDRANT)		3/4"	-	-	_

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, TEMPERATURE CONTROL AND PIPING.

- 1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC. AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
- 2. CATALOG AND MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESCRIPTION OF MATERIAL SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL
- NUMBER. THE FIRST MANUFACTURER SCHEDULED IS THE BASIS OF DESIGN. 3. DETERMINATION OF QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED SHALL BE MADE BY THE CONTRACTOR FROM THE DOCUMENTS. WHERE MATERIAL AND/OR QUANTITY
- DISCREPANCIES ARISE BETWEEN DRAWINGS, SCHEDULES AND/OR SPECIFICATIONS, THE HIGHER QUALITY/ GREATER NUMBER SHALL GOVERN. 4. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR
- PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES. 5. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
- 6. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER
- 7. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR
- 8. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF
- 9. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL. AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- 10. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND
- 11. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
- 12. SEAL ALL WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE
- 13. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS
- 14. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
- 15. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
- 16. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES 17. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS,
- TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS. 18. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED
- ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC. 19. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO METAL ROOF DECKING (LIMITATION NOT REQUIRED WITH CONCRETE ON METAL DECK). THIS 25 LBS. LOAD AND 2'-0" SPACING INCLUDE ADJACENT ELECTRICAL AND ARCHITECTURAL ITEMS HANGING FROM DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING OFF STEEL FRAMING SHALL BE ADDED. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

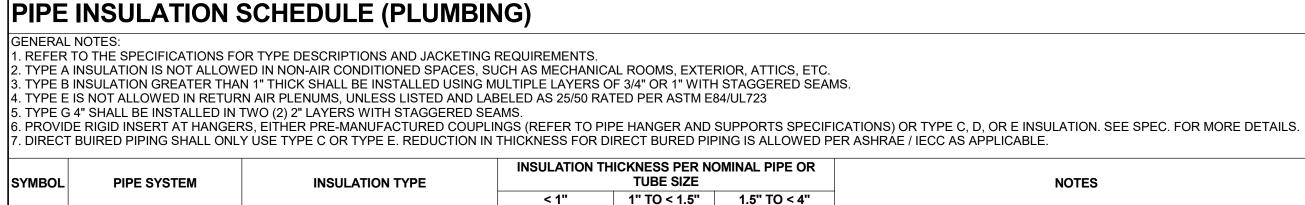
MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, TEMPERATURE CONTROL AND PIPING.

- 1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
- NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS
- BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE
- FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS 4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND
- SHALL NOTIFY THE CONSTRUCTION MANAGER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK. 5. EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL
- CONTRACTORS. NOTIFY THE CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH
- NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS. OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
- PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE
- 9. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
- 10. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
- 11. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED. 12. PROPERLY RECLAIM AND DISPOSE OF ALL REFRIGERANT IN REMOVED EQUIPMENT/ REFRIGERANT PIPING. RECLAIMED REFRIGERANT SHALL HAVE DOCUMENTATION AS

REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

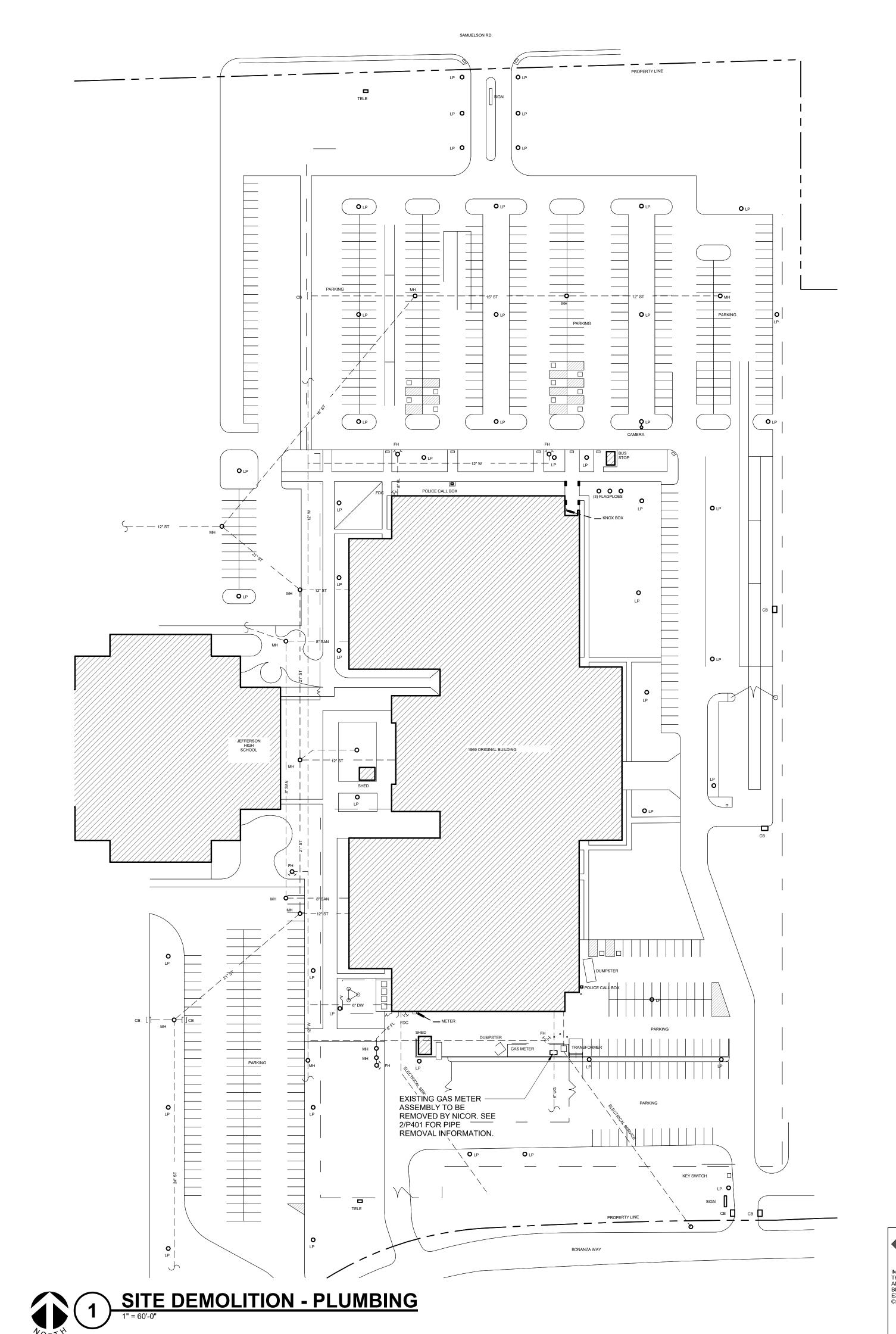
P000	PLUMBING COVERSHEET	
P001	SITE DEMOLITION - PLUMBING	
P002	SITE - PLUMBING	
P101	LEVEL 01 DEMOLITION PLAN - PLUMBING	
P200	UNDERFLOOR PLAN - PLUMBING	
P201	LEVEL 01 PLAN - PLUMBING	
P202	ROOF - PLUMBING	
P400	PLUMBING DETAILS	
P401	PLUMBING DETAILS	

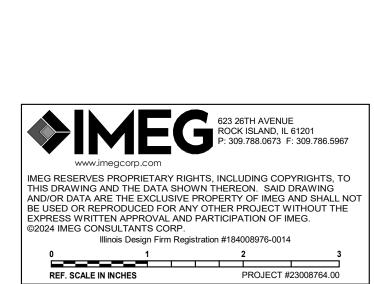


SYMBOL	PIPE SYSTEM	INSULATION TYPE	INSULATION	THICKNESS PER NO TUBE SIZE	MINAL PIPE OR	NOTES		
			< 1"	1" TO < 1.5"	1.5" TO < 4"			
22 PLUMI	BING - WASTE	·				·		
D	DRAIN	A (GlsFbr), B (Elasto	1/2"	1/2"	1"	APPLY INSULATION ONLY TO LOW TEMP DRAINS (55 DEG AND LOWER IE: COOLING COIL CONDENSATE, ICE MACHINE DRAINS, ETC.)		
SAN	SANITARY DRAINAGE	A (GlsFbr), B (Elasto)	1/2"	1/2"	1"	APPLY INSULATION ONLY TO FLOOR DRAIN BODY, P-TRAP AND 10' DOWNSTREAM AT LOW TEMP DRAIN DISCHARGE (55 DEG AND LOWER IE: COOLING COIL CONDENSATE, ICE MACHINE DRAINS, ETC.)		
V	VENT	A (GlsFbr), B (Elasto	1/2"	1/2"	1"	APPLY INSULATION ONLY WITHIN 10' OF EXTERIOR PENETRATION		
22 PLUMI	BING - WATER			•				
CW	COLD WATER - POTABLE	A (GlsFbr), B (Elasto)	1/2"	1/2"	1"			



PROJECT #23008764.00

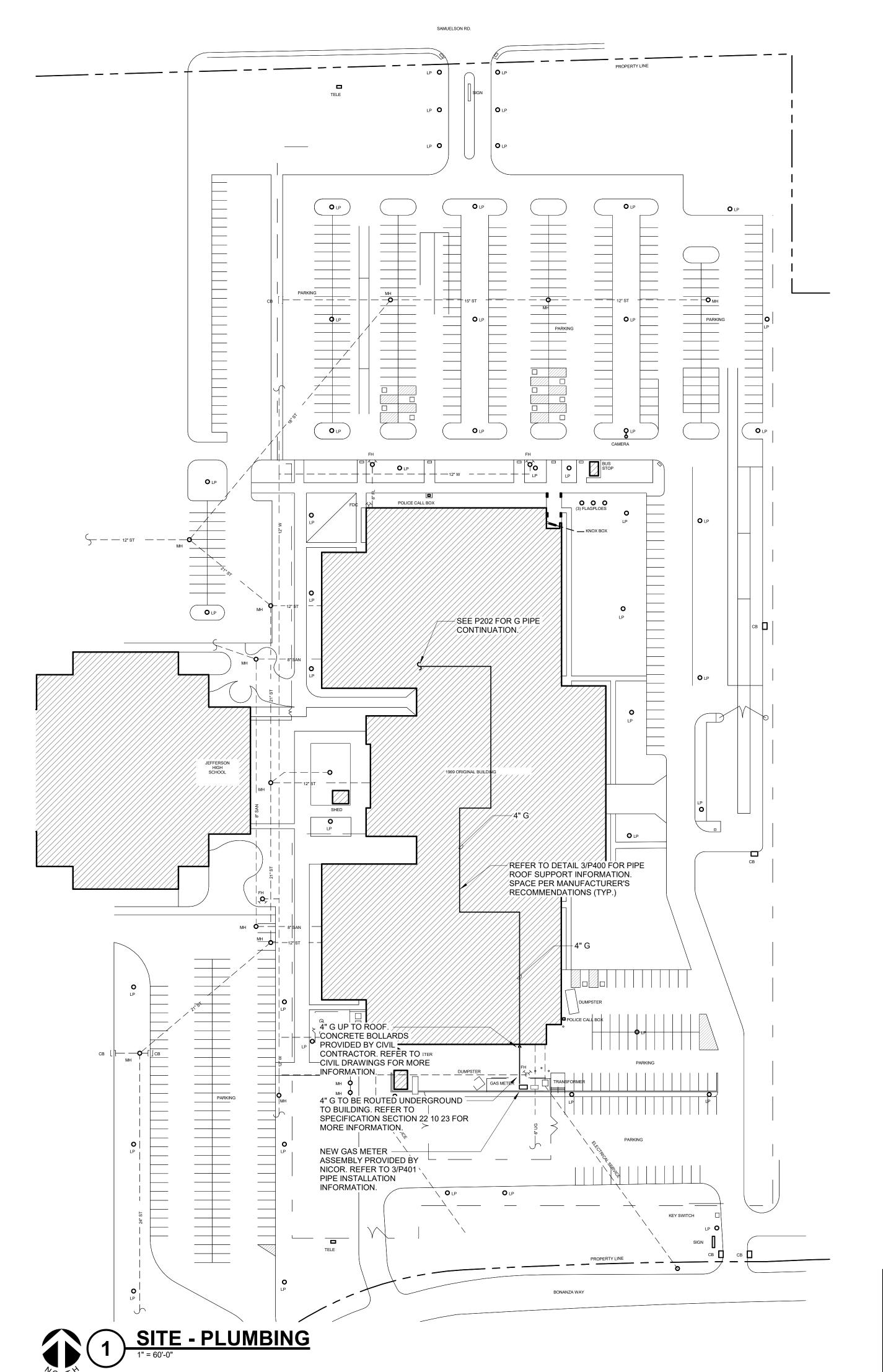


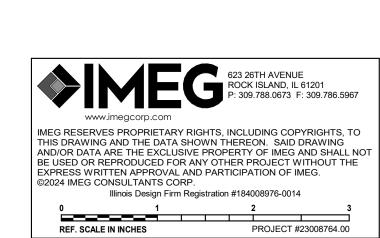


BOUSECT INFORMATION
Date
February 20, 2024
Rev. Date

SITE DEMOLITION - PLUMBING

RICHARD L. JOHNSON
ASSOCIATES ARCHITECTS



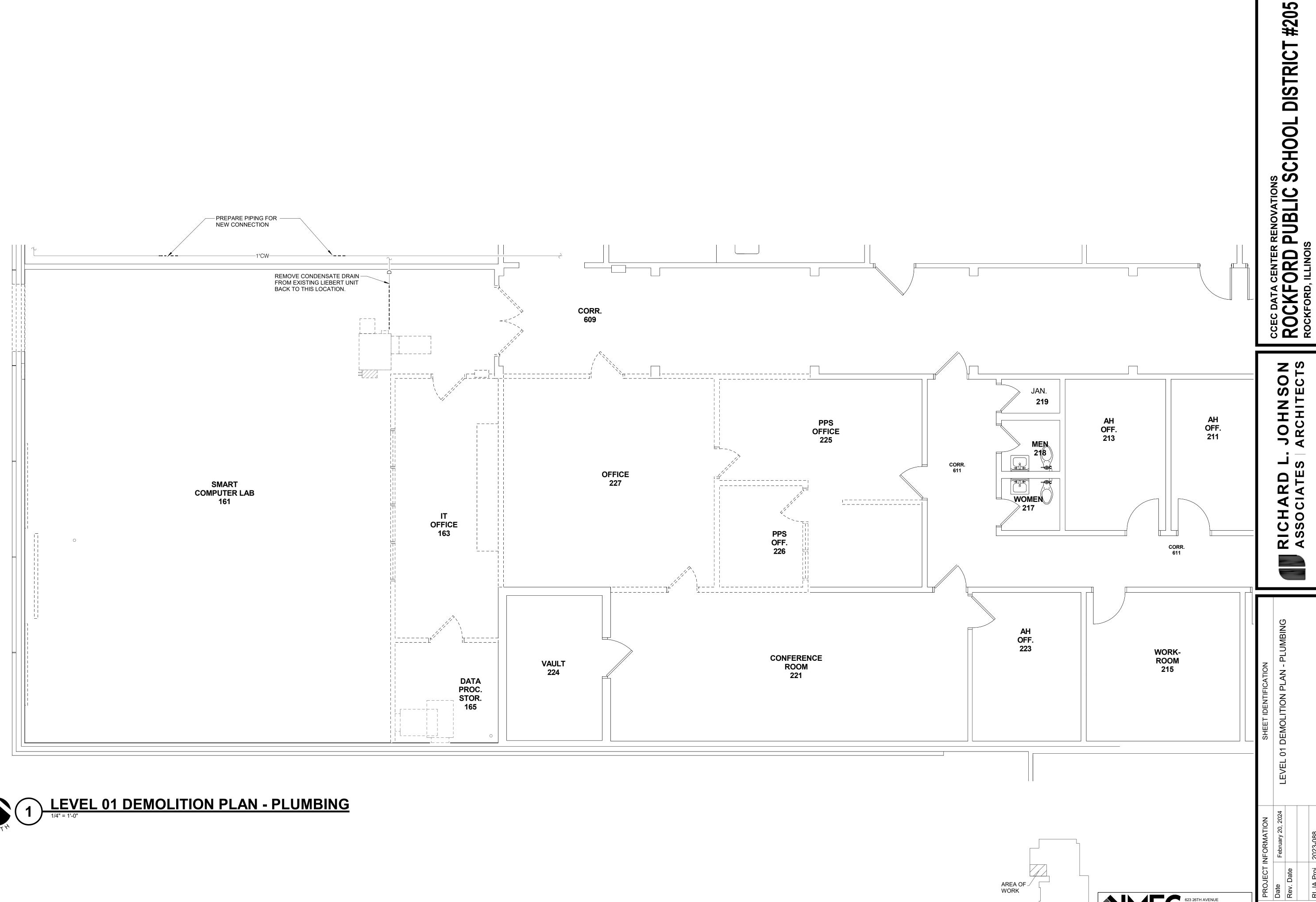


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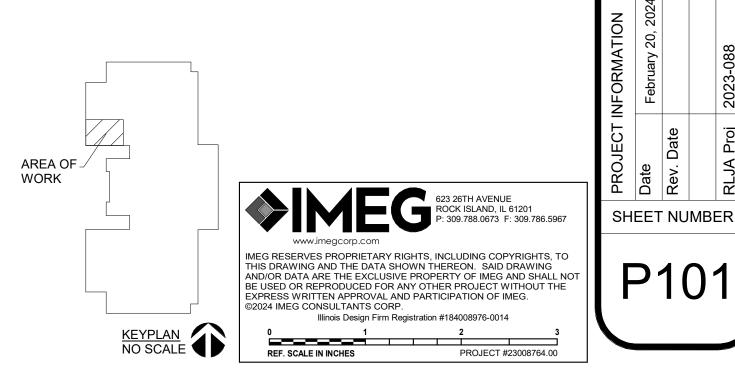
RICHARD L. JOHNSON ASSOCIATES | ARCHITECTS

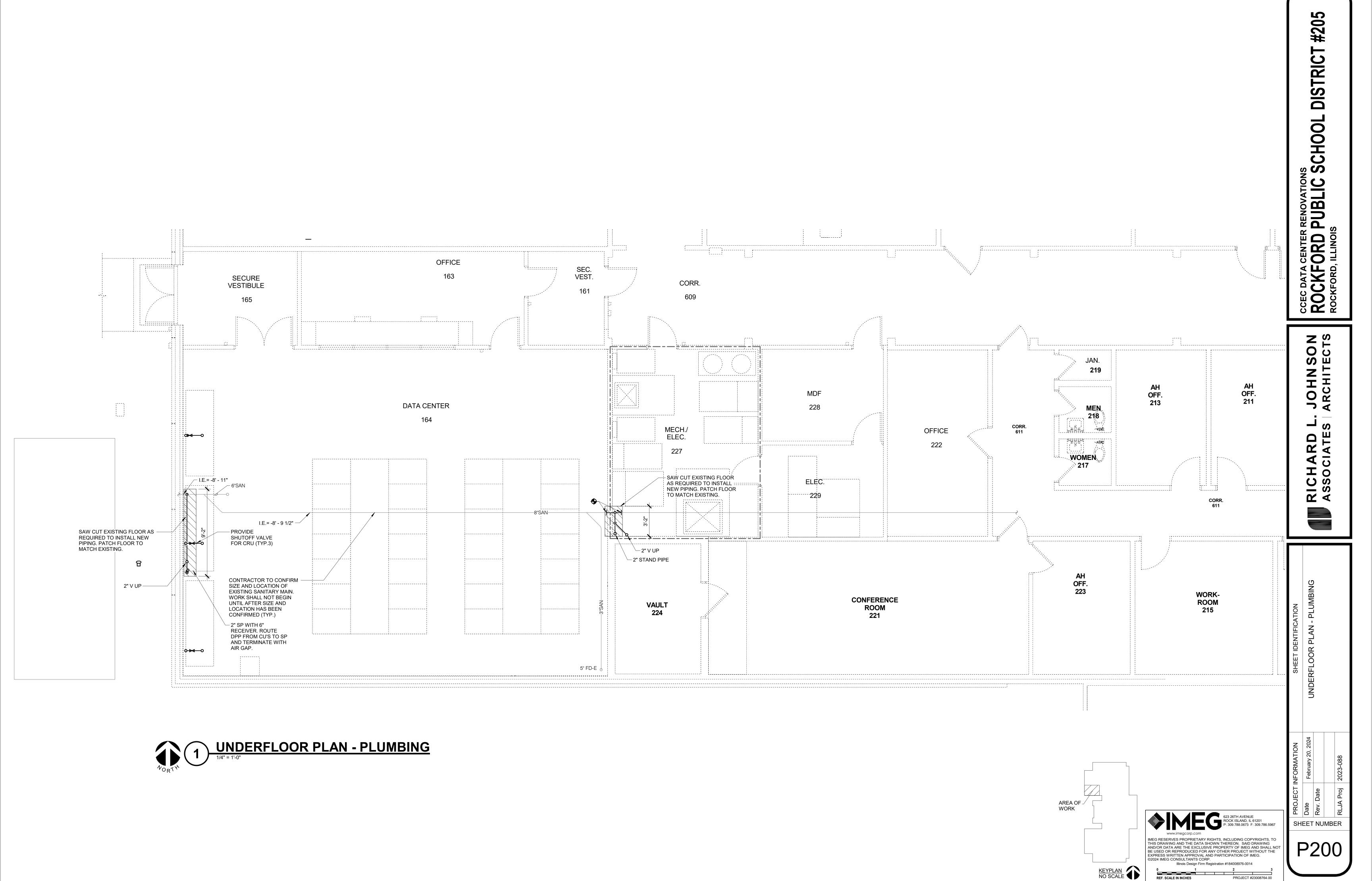
DISTRICT #205

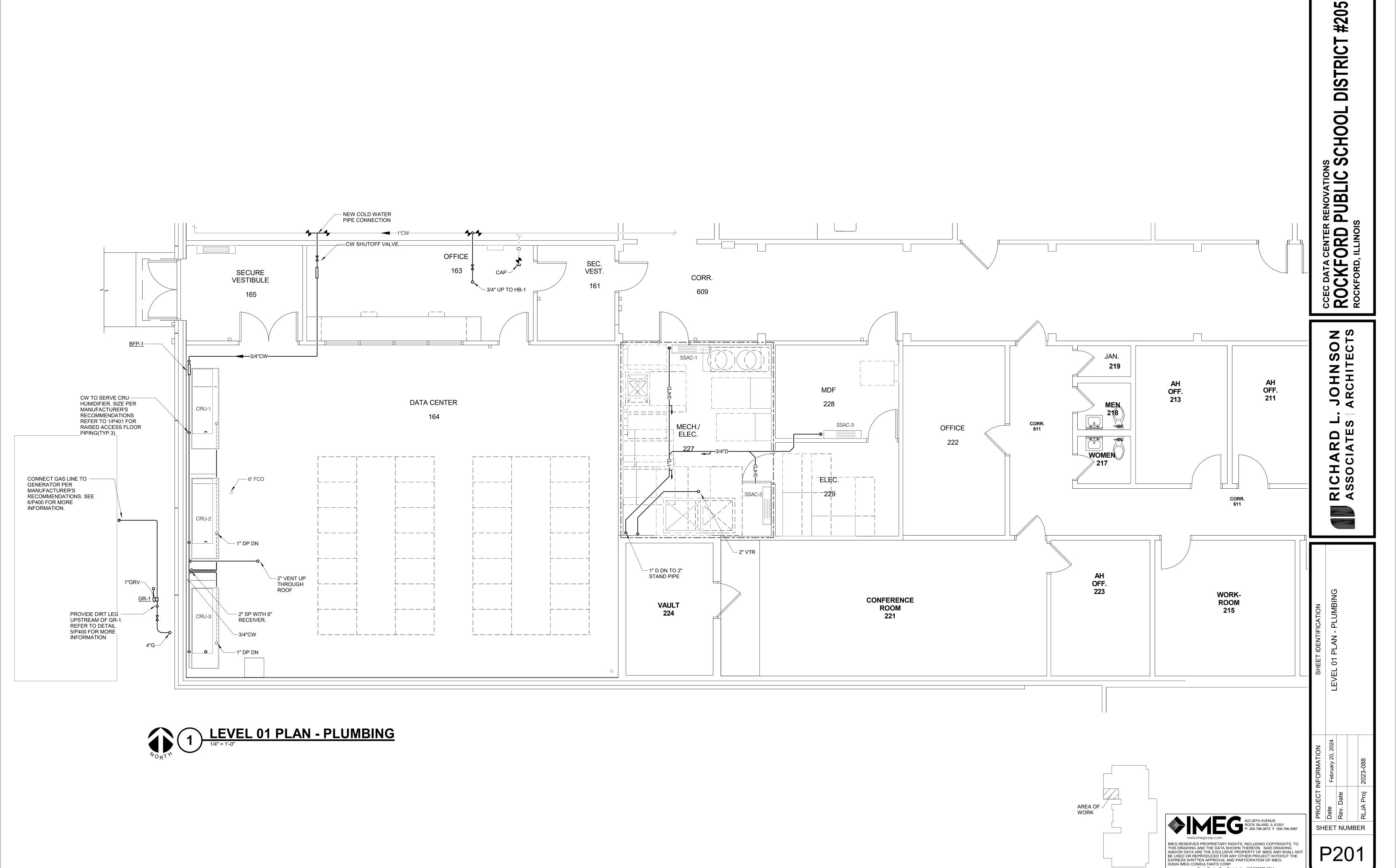
CCEC DATA CENTER RENOVATIONS
ROCKFORD, ILLINOIS



1 LEVEL 01 DEMOLITION PLAN - PLUMBING







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REF. SCALE IN INCHES PROJECT #23008764.00

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SHEET NUMBER

RICHARD L. ASSOCIATES

CCEC DATA CENTER RENOVATIONS
ROCKFORD, ILLINOIS JOHN SON ARCHITECTS

DISTRICT #205

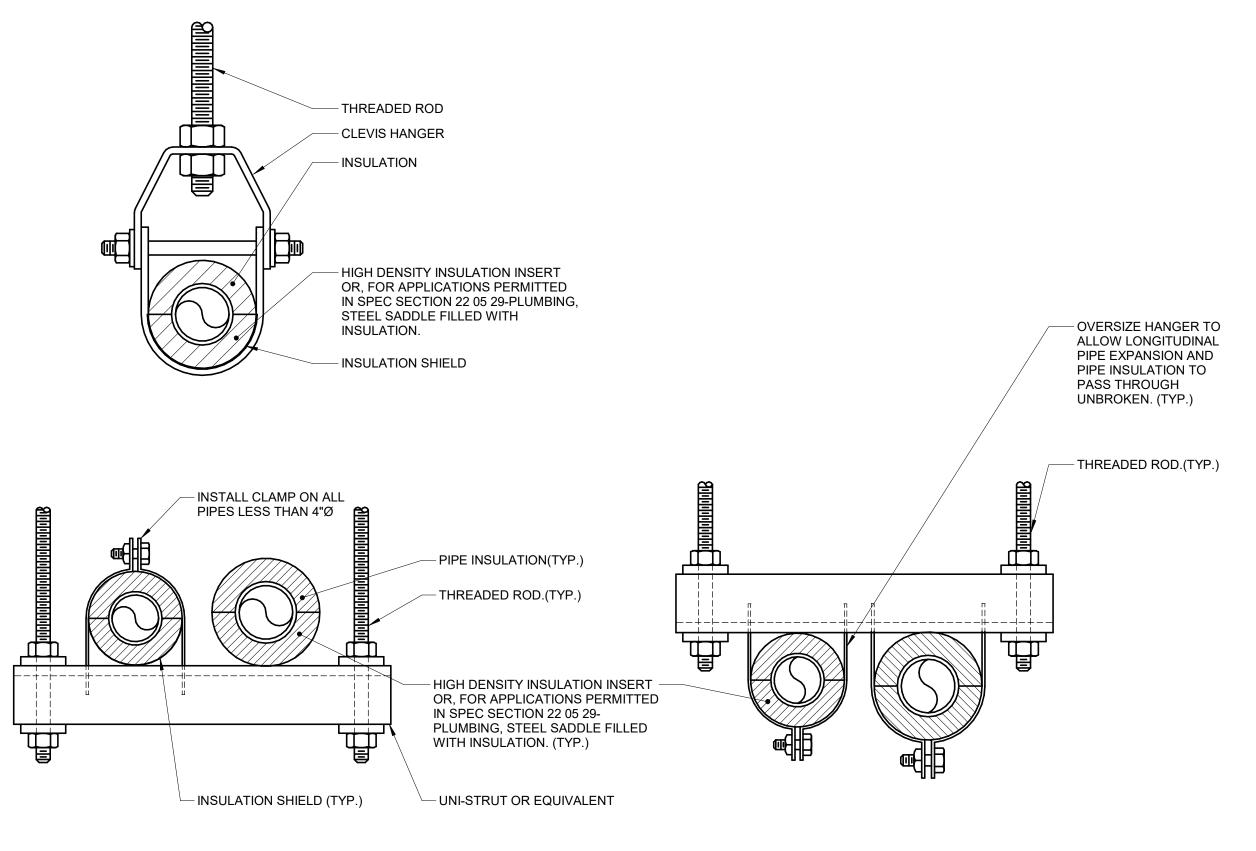
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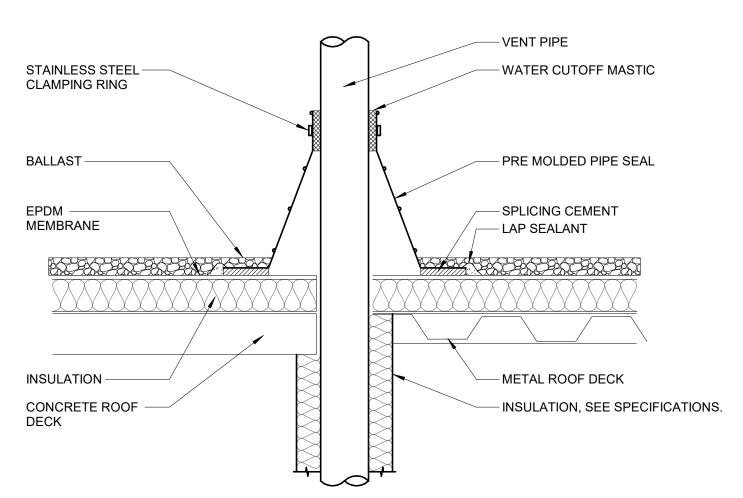
PROJECT #23008764.00



NOTE

1. REFER TO SPECIFICATION SECTION 22 05 29-PLUMBING & SECTION 22 07 19-PLUMBING.

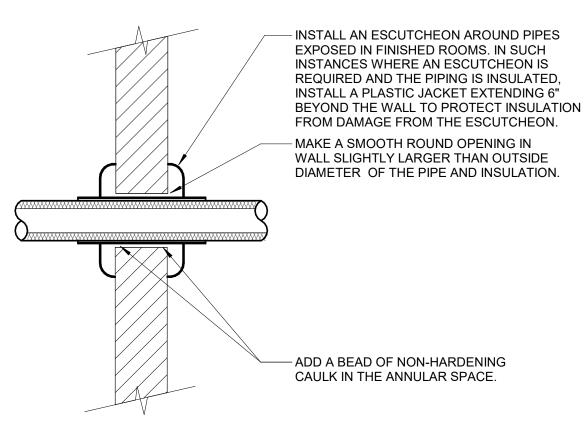
1) PIPE SUPPORT DETAIL NO SCALE



NOTE

- VENT PIPE SHALL BE A MINIMUM OF 3" DIAMETER UNLESS NOTED LARGER ON FLOOR PLANS. INCREASERS, IF REQUIRED TO TRANSITION TO THE LARGER VTR SIZE, MUST BE INSTALLED AT LEAST 12 INCHES BELOW THE THERMAL ENVELOPE OF THE BUILDING.
- 2. EXTEND VENT PIPE AT LEAST 7 FEET ABOVE ROOF LEVEL WHEN ROOF AREA IS INTENDED TO BE USED BY THE GENERAL PUBLIC. THIS INCLUDES PROMENADES, OBSERVATION DECKS, ETC. THIS IS NOT REQUIRED FOR ROOFS THAT ARE ACCESSIBLE BY MAINTENANCE PERSONNEL ONLY.

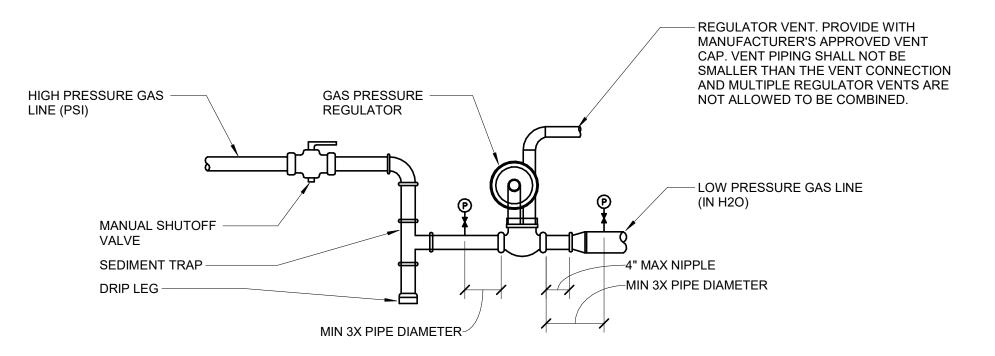




NOTES:

- THIS DETAIL APPLIES TO ALL PIPES. THE INTENTION IS TO CONTINUE THE INSULATION AND VAPOR BARRIER THROUGH ALL PENETRATIONS. PERMIT THERMAL EXPANSION WITHOUT DAMAGING INSULATION, AND TO SEAL AIRTIGHT AROUND INSULATED AND UNINSULATED PIPES FOR NOISE TRANSMISSION CONTROL.
- 2. SEE SPECIFICATION SECTIONS 22 05 29 PLUMBING FOR ADDITIONAL
- 3. FLOOR OPENINGS ARE SIMILAR, SEE SPECIFICATION SECTION 22 05 29 PLUMBING FOR DIFFERENCES BETWEEN FLOOR AND WALL PENETRATIONS.

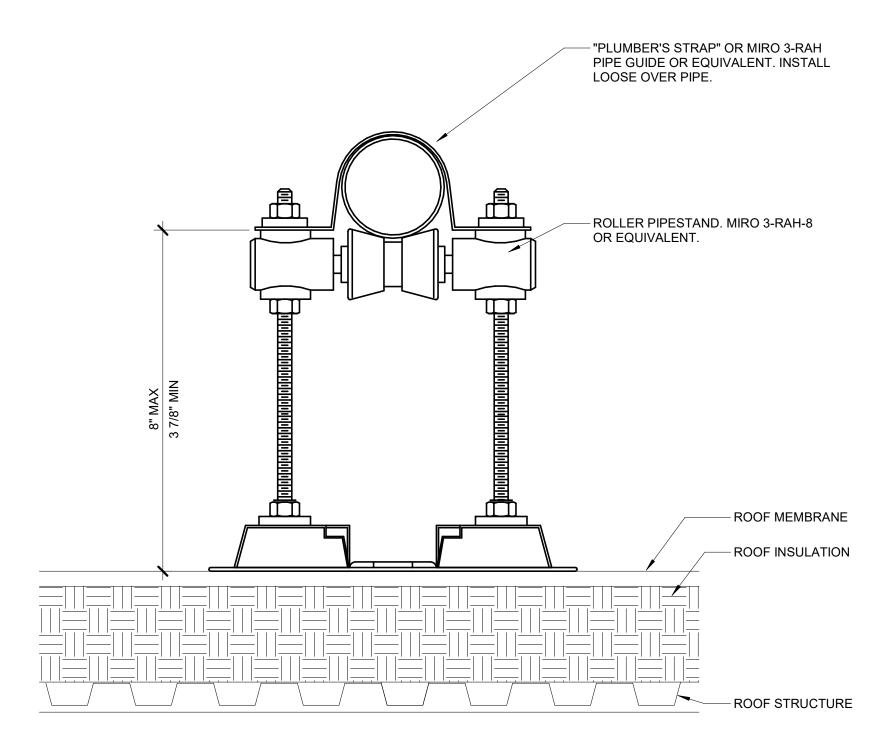
WALL PENETRATION - NON-FIRE RATED



GAS PRESSURE REGULATOR

CONNECTION DETAIL

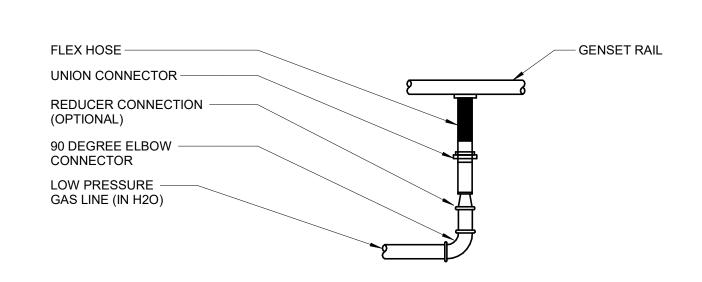
NO SCALE



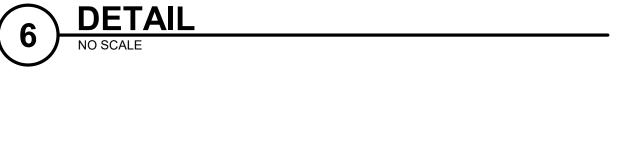
....

- PROVIDE 1/2" THICK RUBBER WALK PAD UNDERNEATH EACH PIPE SUPPORT.
 COORDINATE PIPESTAND LOCATIONS WITH G.C.
- COORDINATE PIPESTAND LOCATIONS WITH G.C.
 PROVIDE SPACE STANDS AS REQUIRED TO MEET MANUFACTURERS RATED CAPACITIES.





GENERATOR GAS CONNECTION DETAIL



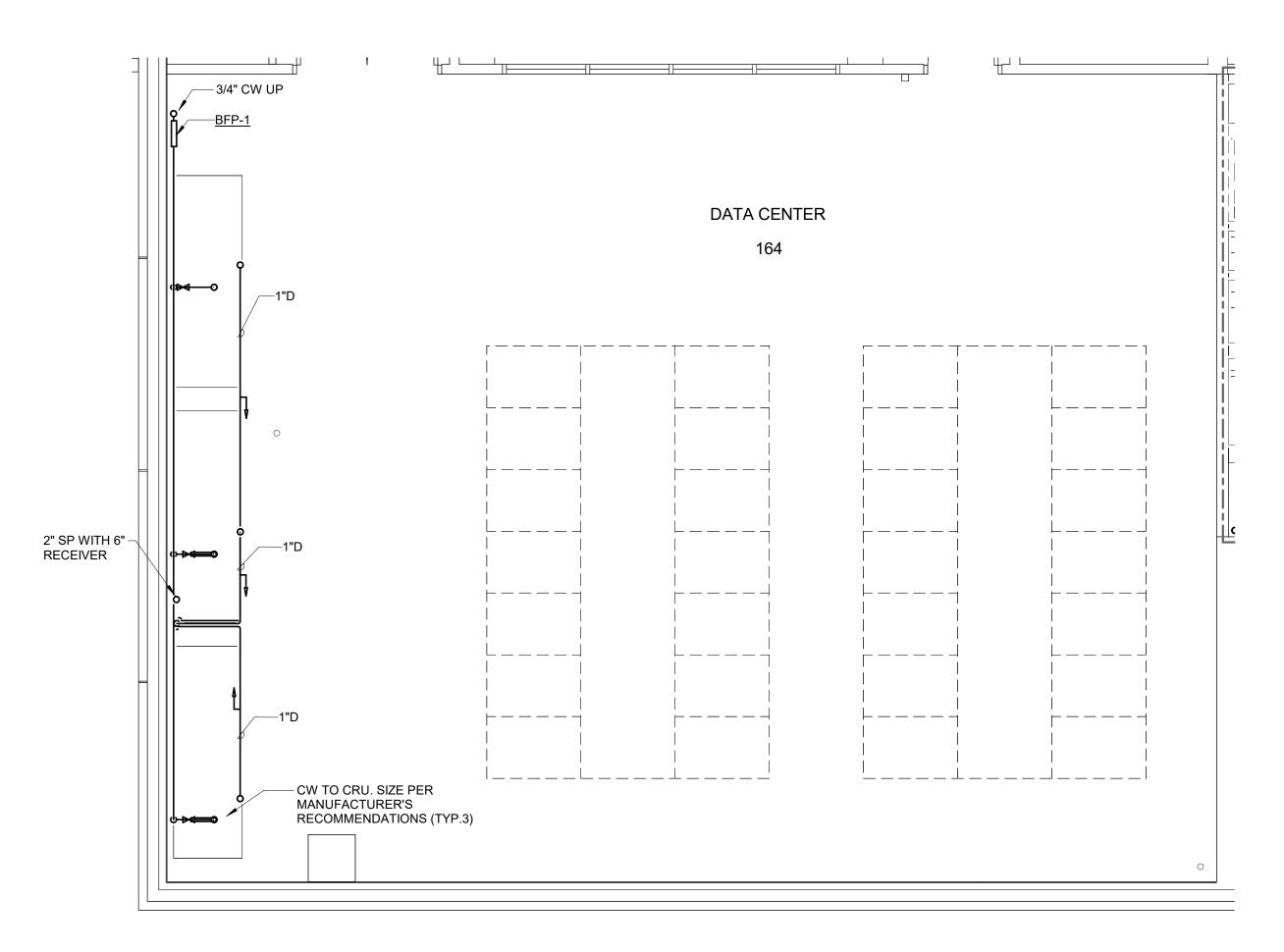
SHEET NUMBER

P401

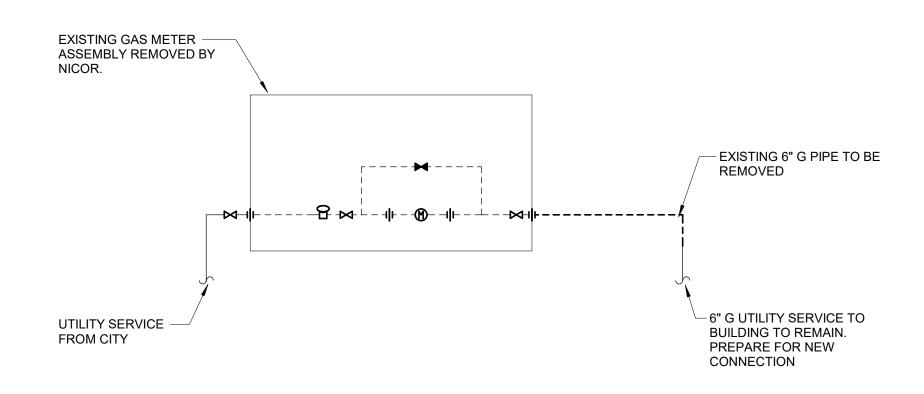
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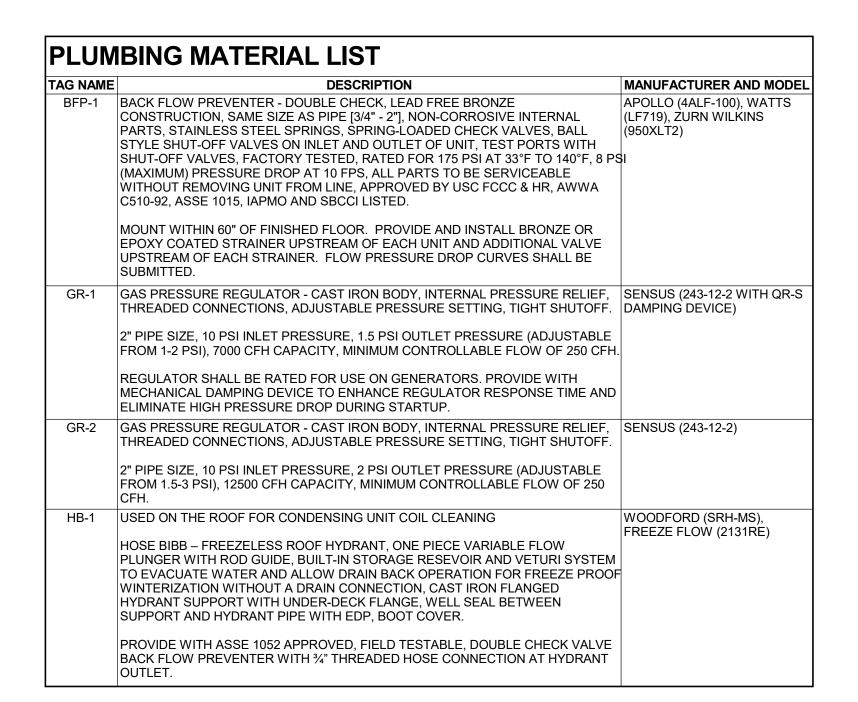
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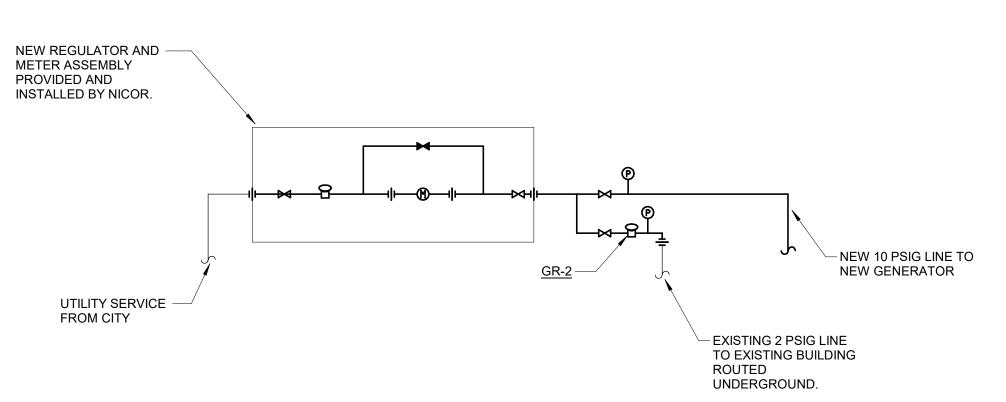


DATA CENTER ENLARGED PLAN - BELOW RAISED FLOOR - PLUMBING

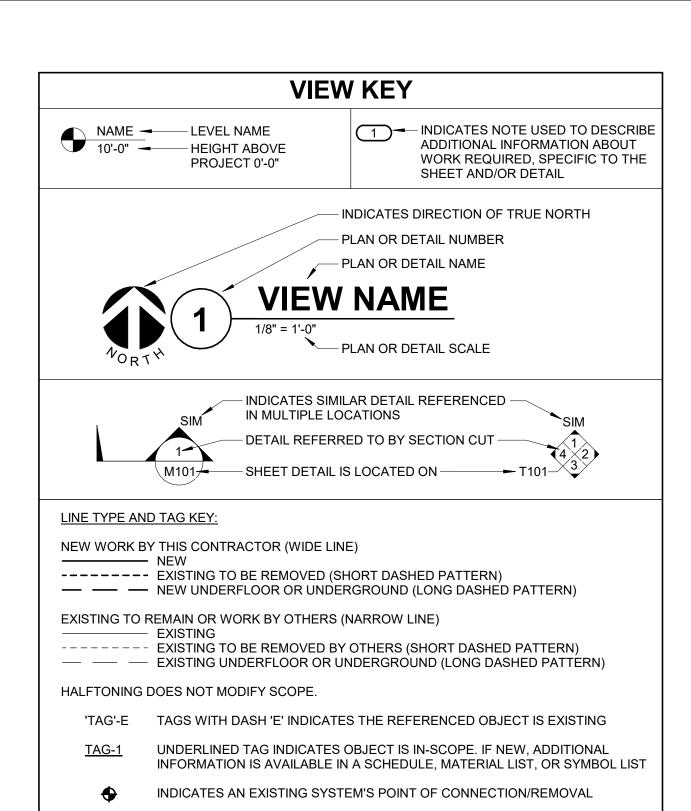


(2) GAS PRESSURE REGULATOR CONNECTION DETAIL - DEMO





GAS PRESSURE REGULATOR CONNECTION DETAIL - NEW
NO SCALE



APPLICABLE CODES				
CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:				
BUILDING CODE:	IBC 2015 EDITION			
PLUMBING CODE:	IL PLUMBING CODE 2014 EDITION			
FIRE CODE:	IFC 2015 EDITION			
MECHANICAL CODE:	IMC 2015 EDITION			
ELECTRICAL CODE:	NFPA 70 2014 EDITION			
LIFE SAFETY CODE:	NFPA 101 2015 EDITION			
ENERGY CONSERVATION CODE:	IECC 2018			
HEALTH DEPARTMENT CODE:	CURRENT EDITION			

CONTRACTOR ABBREVIATION KEY		
ABBR: DESCRIPTION:		
A.C.	ASBESTOS ABATEMENT CONTRACTOR	
C.M.	CONSTRUCTION MANAGER	
E.C.	ELECTRICAL CONTRACTOR	
F.P.C.	FIRE PROTECTION CONTRACTOR	
G.C.	GENERAL CONTRACTOR	
M.C.	MECHANICAL CONTRACTOR	
P.C.	PLUMBING CONTRACTOR	
T.C.	TECHNOLOGY CONTRACTOR	
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR	

CONTACT PERSONS:		
DESCRIPTION:	PERSON:	
PROJECT MANAGER	BRANDON PIERSON	
MECHANICAL	DREW MINAS	
ELECTRICAL	JEREMY VETTING	
TECHNOLOGY	ALAN SWANSON	

FIRE / SMOKE BARRIER DESIGNATIONS

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

ALL FLOOR AND ROOF CEILING ASSEMBLIES SHALL BE DESIGNATED AS 1 HOUR FIRE \mid <code>BARRIER(S)</code>, <code>UNLESS</code> NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS.

1 HOUR FIRE WALL	

	NOT ALL SYMBOLS MAY APPLY.
SYMBOL:	DESCRIPTION:
—CAF——	COMPRESSED AIR - FIRE PROTECTION
—DFP——	DRAIN
—FP——	FIRE PROTECTION
—FPD—	FIRE PROTECTION - DRY SYSTEM
W	SERVICE WATER - POTABLE
 3	PIPE CAP
	PIPE DOWN
<u> </u>	PIPE UP OR UP/DOWN
——II———	UNION/FLANGE
-	DIRECTION OF FLOW IN PIPE
7	ROUTE TO DRAIN
—⋈—	SHUTOFF VALVE NORMALLY OPEN
	AUTOMATIC DRAIN VALVE
F	FLOW SWITCH
P	PRESSURE SWITCH
→× —®	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
⊏≍	MONITOR SWITCH
	AREA BOUNDARY
IO HATCH	LIGHT HAZARD
	ORDINARY GROUP 1
	CLEAN AGENT SUPPRESSION
	DEMOLITION
•	SPRINKLER
0	SPRINKLER - CONCEALED

FIRE PROTECTION ABBREVIATION KEY				
ABBR: DESCRIPTION:				
AFF	ABOVE FINISHED FLOOR			
N.C.	NORMALLY CLOSED			
NIC	NOT IN CONTRACT			
N.O.	NORMALLY OPEN			
TYP	TYPICAL			

FIRE PROTECTION SHEET INDEX			
F000	FIRE PROTECTION COVERSHEET		
F101	LEVEL 01 DEMOLITION PLAN - FIRE PROTECTION		
F201	LEVEL 01 PLAN - FIRE PROTECTION		
F400	FIRE PROTECTION DETAILS		
GRAND TOTAL	.: 4		

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, TEMPERATURE CONTROL AND PIPING.

- 1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
- 2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
- 3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD
- 4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE CONSTRUCTION MANAGER PRIOR TO BIDDING IF OTHER UTILITIES ARE
- REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK. 5. EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH THEIR WORK.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL
- CONTRACTORS. NOTIFY THE CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING. 7. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL
- SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK. 8. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT
- 9. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
- 10. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY
- DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE. 11. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.
- 12. PROPERLY RECLAIM AND DISPOSE OF ALL REFRIGERANT IN REMOVED EQUIPMENT/ REFRIGERANT PIPING. RECLAIMED REFRIGERANT SHALL HAVE DOCUMENTATION AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

FIRE PROTECTION GENERAL NOTES:

- 1. THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS
- REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT. 2. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER IS THE
- 3. CENTER SPRINKLERS IN CEILING TILES IN BOTH DIRECTIONS IN ALL AREAS. IN AREAS WITH 2'X4' CEILING TILES CENTERING USING A 2'X2' CEILING PATTERN IS ACCEPTABLE. SPRINKLER HEADS SHALL BE ALIGNED WITH OTHER SPRINKLER HEADS, LIGHTING, DIFFUSERS, AND ANY OTHER FEATURES IN THE CEILING.
- 4. NEW SPRINKLERS SHALL BE QUICK RESPONSE TYPE, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL NOT MIX STANDARD RESPONSE SPRINKLERS WITH QUICK RESPONSE SPRINKLERS IN UNPARTITIONED SPACES.
- 5. PROVIDE COVERAGE ABOVE AND BELOW ALL EXPOSED DUCTWORK GREATER THAN 48"
- 6. PROVIDE COVERAGE ABOVE (IF APPLICABLE) AND BELOW FLOATING CEILINGS, REFER
- TO ARCHITECTURAL PLANS. 7. FIRE PROTECTION PIPE ROUTING IS SHOWN FOR GENERAL LAYOUT. DETERMINE EXACT NUMBER OF SPRINKLERS, PIPE SIZING, AND PIPE ROUTING.
- 8. THE FIRE PROTECTION SYSTEM SHALL BE DESIGNED TO MEET OWNER'S INSURANCE COMPANY STANDARDS WHERE APPLICABLE. THE MORE STRINGENT OF THE OWNER'S INSURANCE UNDERWRITER'S DESIGN CRITERIA AND THE NFPA STANDARDS SHALL BE
- 9. ALL BUILDING AREA SHALL BE FULLY SPRINKLED. ALL ACCESSIBLE COMBUSTIBLE
- CONCEALED SPACES SHALL BE FULLY PROTECTED BY THE SPRINKLER SYSTEM. 10. WHERE FEASIBLE INSTALL PIPES HIGH AS POSSIBLE TO AVOID CONFLICT WITH OTHER
- 11. INSTALL SYSTEM DRAINS AT LOW POCKET AREAS CONTAINING FIVE GALLONS OF WATER OR MORE, PROVIDE WITH ISOLATION VALVE AND THREADED HOSE
- CONNECTION. 12. FOLLOW STRUCTURAL DETAILS WHEN PENETRATING OR PASSING THROUGH STRUCTURAL ELEMENTS. ALTERNATE DESIGNS WILL NEED TO BE APPROVED THROUGH
- THE STRUCTURAL ENGINEER. 13. FINAL HEAD LOCATION, TYPE AND FINISH SHALL BE REVIEWED AND APPROVED BY THE
- 14. THE OWNER MUST BE NOTIFIED PRIOR TO EACH AND EVERY DRAINING OR RECHARGING
- OF THE SPRINKLER SYSTEM. 15. THE CONTRACTOR SHALL PREPARE A COORDINATED SET OF SHOP DRAWINGS AND
- SHALL OBTAIN APPROVAL FROM THE AUTHORITIES HAVING JURISDICTION AND THE LOCAL FIRE DEPARTMENT PRIOR TO ANY INSTALLATION. 16. DRAWINGS SHOW LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS.
- DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC. AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
- 17. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.

FIRE SPRINKLER USAGE SCHEDULE

NOTES: (APPLY TO ALL SPRINKLERS LISTED)

CEILINGS

SEE FLOOR PLANS FOR ZONING REQUIREMENTS.

SPRINKLER SHALL HAVE COLOR CODED BULB THERMAL ELEMENT. ALL SPRINKLERS SHALL BE UL LISTED.

- CONTRACTOR TO VERIFY SPRINKLER REQUIREMENTS BASED ON ACTUAL INSTALLATION, USAGE, ARCHITECTURAL CEILING PLAN AND NFPA 13
- TAG NAME IS PRIMARILY FOR IDENTIFYING SPRINKLERS IN SUBMITTALS. IT MAY OR MAY NOT BE FOUND ELSEWHERE ON THE DRAWINGS.
- CONTRACTOR TO SUBMIT ALL SPRINKLER TYPES TO BE USED.
- AREAS ARE GENERAL IN NATURE, CONTRACTOR TO MATCH UNSCHEDULED AREAS TO SIMILAR SPACES.
- SPRINKLERS SPECIFIED WITHIN FIRE SPRINKLER USAGE SCHEDULE ARE STANDARD COVERAGE TYPE. EXTENDED COVERAGE SPRINKLERS ARE PERMITTED PROVIDED SPRINKLERS MEET THE REQUIREMENTS OF LIL

OF MINICENS ARE LEMINITED FROM DED OF MINICERS WEET THE REGOTAL WENT OF SE.							
		SPRINKLER					
AREA TYPE (NOTE 1 & 6)	AREA HAZARD	TAG NAME (NOTE 4 & 5)	SPRINKLER TYPE	RESPONSE CATEGORY	FINISH	TEMPERATURE RATING	MANUFACTURER & MODEL
AREAS WITH CEILINGS	SEE PLANS	SPR-1	RECESSED PENDENT	QUICK	CHROME PLATED		VIKING VK, RELIABLE F1FR, TYCO TY-FRB, VICTAULIC V2708
MECHANICAL SPACES AND SPACES WITHOUT	SEE PLANS	SPR-2	UPRIGHT	QUICK	ROUGH BRASS	PER NFPA	VIKING VK, RELIABLE F1FR, TYCO TY-FRB, VICTAULIC V2704

TRIC DIS CHOOL

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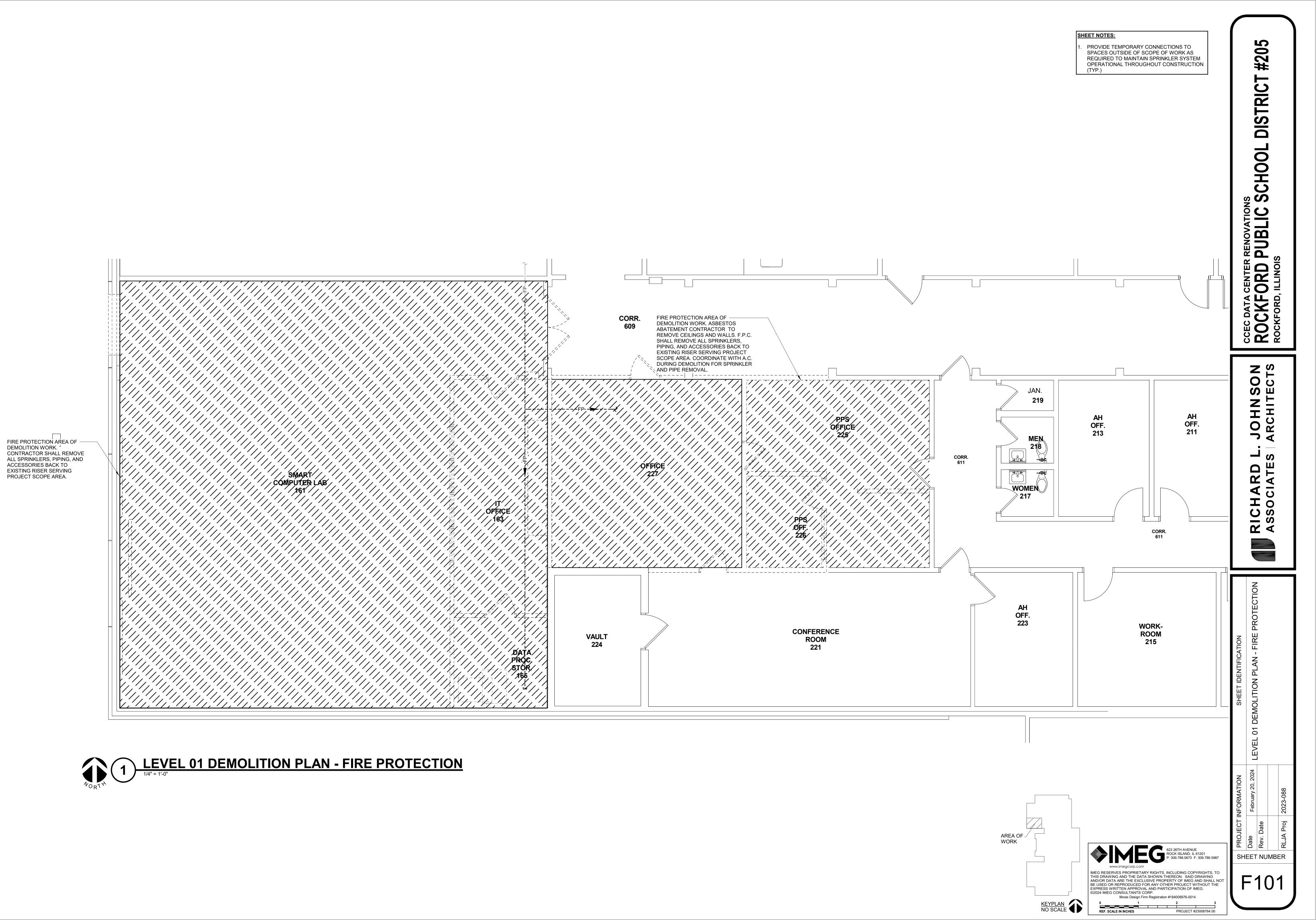
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PROJECT #23008764.00



FIRE PROTECTION SYMBOL LIST				
SYMBOL	SYMBOL DESCRIPTION:			
M	CLEAN AGENT MANUAL RELEASE STATION			
K	KEYED SWITCH			
V	VISUAL CLEAN AGENT RELEASE NOTIFICATION ABOVE DOOR			
AB	CLEAN AGENT RELEASE ABORT			
\bigcirc_{A}	ROTATING BEACON, CLEAN AGENT RELEASE NOTIFICATION, WALL MOUNTED, REFER TO SPECIFICATIONS 21 22 00 FOR COMPLETE REQUIREMENT.			

SHEET NOTES:

I. PROVIDE TEMPORARY CONNECTIONS TO SPACES OUTSIDE OF SCOPE OF WORK AS REQUIRED TO MAINTAIN SPRINKLER SYSTEM OPERATIONAL THROUGHOUT CONSTRUCTION (TYP.)
2. SEAL ALL WALL PENETRATIONS AIR TIGHT.

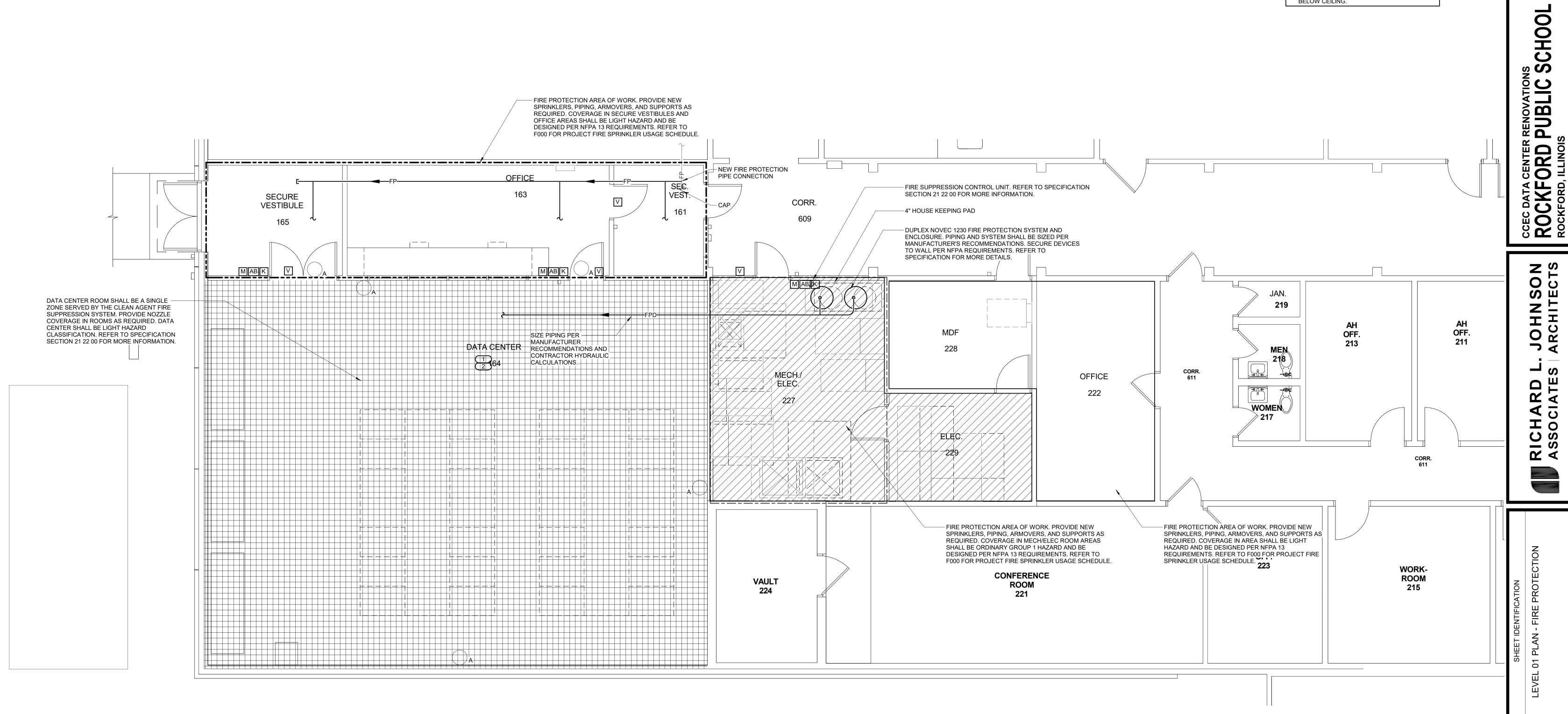
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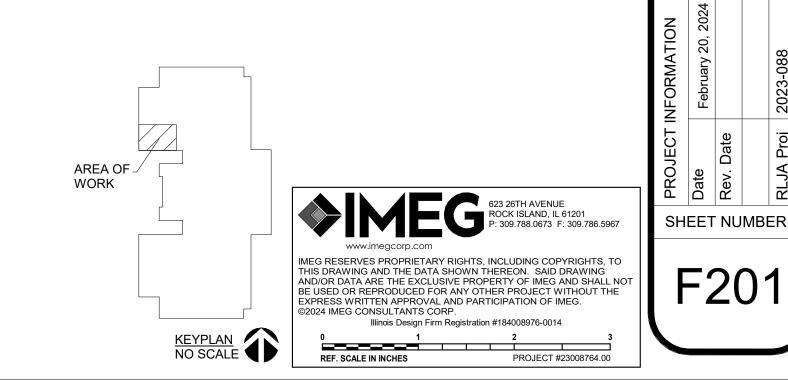
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KEYNOTES:

- 1. PROVIDE SMOKE DETECTORS ABOVE AND BELOW CEILING FOR CLEAN AGENT RELEASE. REFER TO SPEC SECTION 21 22 00 FOR CLEAN AGENT SEQUENCE AND ADDITIONAL REQUIREMENTS. COORDINATE WITH ELECTRICAL CONTRACTOR.
- PROVIDE AIR SAMPLING DEVICE ABOVE AND BELOW CEILING.





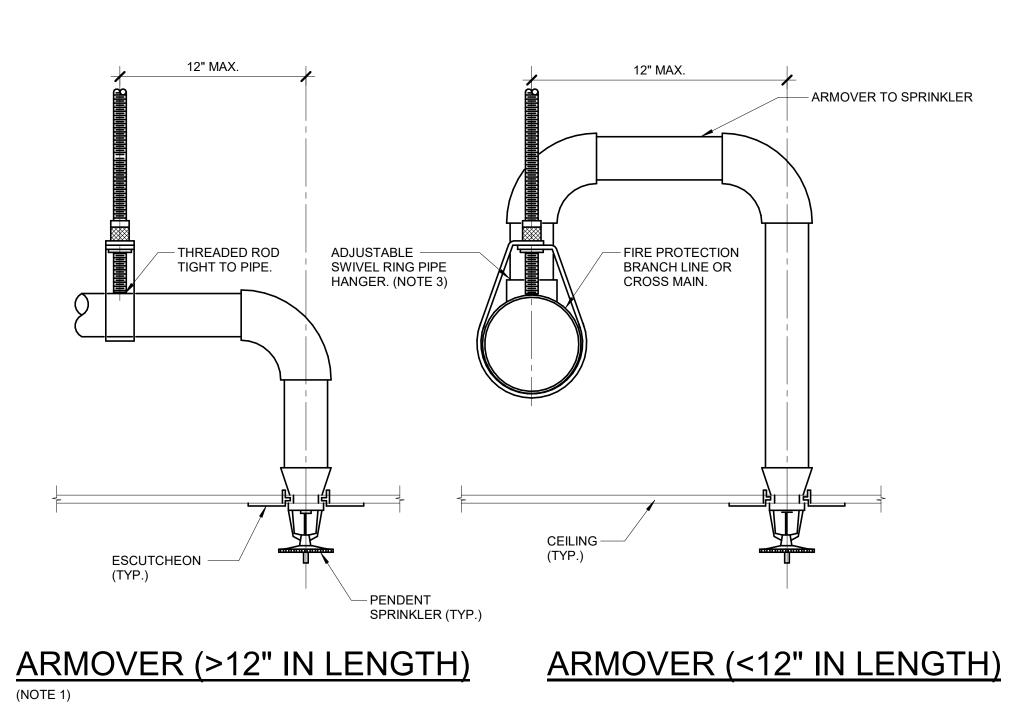


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- APPLIES TO ARMOVER WHERE CUMULATIVE HORIZONTAL LENGTH IS GREATER THAN 12".
 CLEVIS HANGERS AND ADJUSTABLE SWIVEL RING HANGERS WITH SURGE SUPPRESSOR OR RESTRAINING CLIP ARE ALSO ACCEPTABLE, SEE NFPA 13.

PENDENT SPRINKLER PIPE ARMOVER HANGER NO SCALE

- INDICATES SIMILAR DETAIL REFERENCED -IN MULTIPLE LOCATIONS - DETAIL REFERRED TO BY SECTION CUT -— SHEET DETAIL IS LOCATED ON — ∖ M101/−−−

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)

---- EXISTING TO BE REMOVED (SHORT DASHED PATTERN) — — NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE) EXISTING

---- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN) — EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL

INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

FIRE / SMOKE BARRIER DESIGNATIONS

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOF SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

ALL FLOOR AND ROOF CEILING ASSEMBLIES SHALL BE DESIGNATED AS 1 HOUR FIRE BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS.

1 HOUR FIRE WALL

APPLICABLE CODES CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING **BUILDING CODE: IBC 2015 EDITION** IL PLUMBING CODE 2014 EDITION PLUMBING CODE: FIRE CODE: IFC 2015 EDITION IMC 2015 EDITION MECHANICAL CODE: ELECTRICAL CODE: NFPA 70 2014 EDITION LIFE SAFETY CODE: NFPA 101 2015 EDITION ENERGY CONSERVATION CODE: IECC 2018 HEALTH DEPARTMENT CODE: **CURRENT EDITION** LOCAL BUILDING CODE: **CURRENT EDITION**

CONTRACTOR ABBREVIATION KEY			
ABBR:	DESCRIPTION:		
A.C.	ASBESTOS ABATEMENT CONTRACTOR		
C.M.	CONSTRUCTION MANAGER		
E.C.	ELECTRICAL CONTRACTOR		
F.P.C.	FIRE PROTECTION CONTRACTOR		
G.C.	GENERAL CONTRACTOR		
M.C.	MECHANICAL CONTRACTOR		
P.C.	PLUMBING CONTRACTOR		
T.C.	TECHNOLOGY CONTRACTOR		
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR		

CONTACT PERSONS:		
DESCRIPTION:	PERSON:	
PROJECT MANAGER	BRANDON PIERSON	
MECHANICAL	DREW MINAS	
ELECTRICAL	JEREMY VETTING	
TECHNOLOGY	ALAN SWANSON	

	TECH	NOLOGY SYMBOL LIST	
SYMBOL:	EQUIPMENT LIST ABBREV.:	DESCRIPTION:	NOTE:
CSS	N/A	CONTROLLED SECURITY SCHEME SCHEDULE IDENTIFIER	2.
R#	AC-R#-W	SECURITY CREDENTIAL READER (WALL)	
	<u>IC-IS1-W</u>	INTERCOM STATION (WALL)	
C#	SC-IO-W	INFORMATION OUTLET (WALL)	1.
©C#-WAP	SC-IO-CWAP	INFORMATION OUTLET FOR WIRELESS ACCESS POINT (CEILING)	1.
C M-1	VS-CM-1	VIDEO SURVEILLANCE CAMERA 180° FOV (WALL/VERTICAL SURFACE)	3.
O CM-2	VS-CM-2	VIDEO SURVEILLANCE CAMERA SINGLE LENS FOV (CEILING/HORIZONTAL SURFACE)	3.
DIAME	TERø C	CONDUIT	
	 ə	CONDUIT DOWN	
	 0	CONDUIT UP OR UP/DOWN	
E	 3	CONDUIT SLEEVE	
\$		CONTINUATION	

GENERAL NOTES:

- ALL SYMBOLS AND ABBREVIATIONS LISTED MAY NOT BE APPLICABLE TO THIS PROJECT. REFER TO THE TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ITEMS
- ALL SYMBOLS AND ABBREVIATIONS REFER TO TECHNOLOGY SHEETS ONLY AS DEFINED ON THE SHEET INDEX. REFER TO THE GENERAL TECHNOLOGY NOTES FOR ADDITIONAL
- ALL SYMBOLS LISTED ABOVE ARE FOR REFERENCE ONLY. REFER TO PLANS AND LINE TYPE KEY FOR NEW, EXISTING TO REMAIN AND TO BE REMOVED ITEMS FOR ADDITIONAL INFORMATION.

REFER TO RISERS ON SHEET: T500. **TECHNOLOGY SYMBOL NOTES:**

- "C#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. REFER TO
- INFORMATION OUTLET SCHEDULE ON T600 FOR ADDITIONAL INFORMATION. REFER TO CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE ON T600 FOR ADDITIONAL INFORMATION.
- "CM-#" ON FLOOR PLANS INDICATES CAMERA TYPE AND IS ASSOCIATED WITH THE CORRESPONDING "VS-CM-#" EQUIPMENT SCHEDULE ABBREVIATION.

TECHNOLOGY ABBREVIATION KEY

ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BFC	BELOW FINISHED CEILING
С	CONDUIT
DE	DELAYED EGRESS
DPDT	DOUBLE POLE DOUBLE THROW
FOV	FIELD OF VIEW
J-BOX	JUNCTION BOX
POE	POWER OVER ETHERNET
PTZ	PAN TILT ZOOM
SIM	SIMILAR
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
+#	MOUNTING HEIGHT ABOVE FINISHED FLOOR
IDF-1	TELECOMMUNICATIONS ROOM

SUGGESTED MATRIX OF RESPONSIBILITY

ITEM:	SHOWN ON:	FURNISHED BY:	INSTALLED BY:	NOTES
TECHNOLOGY ROUGH-IN, REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION	T-SERIES	E.C.	E.C.	3. 4.
INFORMATION OUTLET FACEPLATES, JACKS, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	T-SERIES	E.C.	E.C.	
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	T.C.	2. 4.
TELECOMMUNICATION SYSTEMS ROUGH-IN	T-SERIES	E.C.	E.C.	1.
TELECOMMUNICATION EQUIPMENT, CABLING, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
LINE VOLTAGE POWER (+120V OR GREATER)	E-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	E.C.	2. 4.
LINE VOLTAGE POWER FOR DOOR HARDWARE POWER SUPPLIES	ARCH SPEC	E.C.	E.C.	
LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS	T-SERIES	T.C.	T.C.	
CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS (OTHER THAN CONDUIT AND CABLE TRAY)	T-SERIES	T.C.	T.C.	5.

SUGGESTED MATRIX OF RESPONSIBILITY NOTES

- LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE DRAWINGS. REFER TO THE TECHNOLOGY SYMBOL LIST FOR ADDITIONAL INFORMATION. BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS. ALL
- REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ALL ACCEPTABLE
- INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE CONTRACT DOCUMENTS.
- ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR SHALL BE INCLUDED IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN.

UNLESS TRADE RULES DICTATE OTHERWISE.

TELECOM ROOM REFERENCES										
DETAIL / SHEET FLOOR PLAN TELECOM ROOM REFERENCE REFERENCE ARCH ROO										
IDF-1	1/T300	1/T201	164							

TECHNOLOGY SHEET INDEX								
T000	TECHNOLOGY COVERSHEET							
T101	LEVEL 01 DEMOLITION PLAN - TECHNOLOGY							
T201	LEVEL 01 PLAN - TECHNOLOGY							
T300	TECHNOLOGY ENLARGED PLAN							
T400	TECHNOLOGY DETAILS							
T500	TECHNOLOGY DIAGRAMS							
T600	TECHNOLOGY SCHEDULES							
GRAND TOTAL	.: 7							

TECHNOLOGY GENERAL NOTES:

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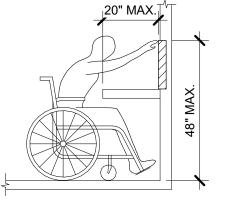
- ##-###-# INDICATES TECHNOLOGY EQUIPMENT SCHEDULE ITEM LABELED AS "EQUIPMENT LIST ABBREVIATION" REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR FULL
- DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.
- TECHNOLOGY MOUNTING SUBSCRIPT KEY: MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
- MOUNT ORIENTED HORIZONTALLY
- MOUNT IN CASEWORK MOUNT IN MODULAR FURNITURE
- MOUNT IN SURFACE RACEWAY A SLASH IS USED BETWEEN TWO SUBSCRIPTS, E.G., A/H.

TECHNOLOGY INSTALLATION NOTES:

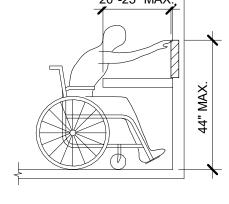
- 1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
- 2. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON
- BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
- VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL TELECOMMUNICATIONS INSTALLATION, ADJUST OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT
- TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TELECOMMUNICATION DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
- ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM F814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO 27 05 03 AND 28 05 03 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
- THE TECHNOLOGY CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF THE CEILINGS, CEILING TILES, AND CEILING GRID ASSOCIATED WITH THE AREAS OF WORK
- BY ALL CONTRACTORS. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- 10. FLUSH MOUNT ALL TELECOMMUNICATION OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.

TECHNOLOGY DEMOLITION NOTES

- 1. THE DRAWINGS INDICATE EXISTING ITEMS TO BE REMOVED. THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF WORK REQUIRED AND DO NOT INDICATE EVERY BOX, CONDUIT, OR WIRE THAT MUST BE REMOVED. THE CONTRACTOR SHALL VISIT THE
- SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS. ITEMS (i.e. SPEAKERS, SWITCHES, ETC.) REMOVED AND NOT RELOCATED REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF MATERIAL THE OWNER DOES NOT WANT TO REUSE OR RETAIN. (i.e., FOR
- MAINTENANCE PURPOSES). 3. EXISTING TO REMAIN DEVICES WITHIN OR ADJACENT TO THE PATH OF CONSTRUCTION SHALL BE PROTECTED IN PLACE. DEVICES THAT MUST BE REMOVED SHALL BE TESTED PRIOR TO REMOVAL, PROTECTED FROM DAMAGE, AND RE-INSTALLED IN ITS ORIGINAL LOCATION DURING THE NEW CONSTRUCTION PHASE OF THE PROJECT.
- 4. OBTAIN APPROVAL FROM THE OWNER BEFORE TURNING OFF THE POWER TO EQUIPMENT, SYSTEMS, PANELS, ETC. COORDINATE ALL OUTAGES WITH OWNER. CONDUIT CONCEALED IN WALL CONSTRUCTION MAY BE ABANDONED IN PLACE IF NOT
- AFFECTED BY OTHER CONSTRUCTION. 5. ALL CONDUIT SHALL BE REMOVED WHERE WALLS ARE BEING REMOVED. WHERE CONDUIT IS IN THE CONCRETE SLAB, CUT OFF FLUSH, PULL OUT WIRE, AND PLUG. WHERE CONDUIT IS RUN EXPOSED, ALL ASSOCIATED CLAMPS, SUPPORTS, HANGERS.
- ETC., SHALL ALSO BE REMOVED. 6. COORDINATE ALL WORK WITH OTHER CONTRACTORS AT THE JOB SITE BEFORE
- REMOVING EXISTING EQUIPMENT AND INSTALLING NEW ITEMS. 7. EXISTING CONDUIT IN GOOD CONDITION, MAY BE REUSED IN PLACE. RELOCATING EXISTING CONDUIT SHALL NOT BE ALLOWED. BONDING CONDUCTORS SHALL BE
- INSTALLED IN ALL REUSED CONDUIT TO ASSURE PROPER GROUND PATH. EQUIPMENT REMOVAL IN CERTAIN LOCATIONS MAY REQUIRE THE INSTALLATION OF A JUNCTION BOX TO RECONNECT CIRCUITS THAT REMAIN IN OPERATION. EXTEND
- CONDUIT AND WIRING AS REQUIRED TO MAINTAIN POWER TO REMAINING EQUIPMENT. 9. DEVICES TO BE REMOVED SHALL HAVE ALL CONNECTED WIRING REMOVED TO THE
- SOURCE. 10. DEVICES NOT TO BE REMOVED SHALL BE PROTECTED FROM THE ENVIRONMENT, AND ALL ASSOCIATED CABLE/RACEWAYS ARE TO REMAIN AND BE PROTECTED. T.C. SHALL BE
- RESPONSIBLE FOR REPAIR OF ANY INTERRUPTIONS TO PROTECTED DEVICES. 11. REFER TO SPECIFICATIONS SECTION 27 05 00 FOR ADDITIONAL INFORMATION.

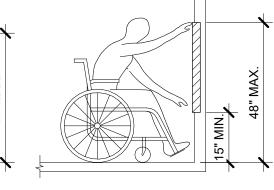


INSTALL ABOVE COUNTER DEVICE AT 44" ABOVE FINISHED FLOOR.

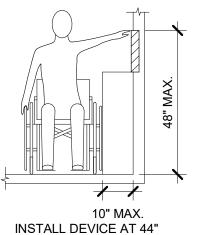


INSTALL ABOVE COUNTER DEVICE AT 40" ABOVE FINISHED FLOOR.

ADA GUIDELINES - FRONT ACCESS



INSTALL DEVICE AT 18" ABOVE FINISHED FLOOR.



10"-24" MAX. INSTALL DEVICE AT 42"

ABOVE FINISHED FLOOR. ABOVE FINISHED FLOOR. ADA GUIDELINES - SIDE ACCESS

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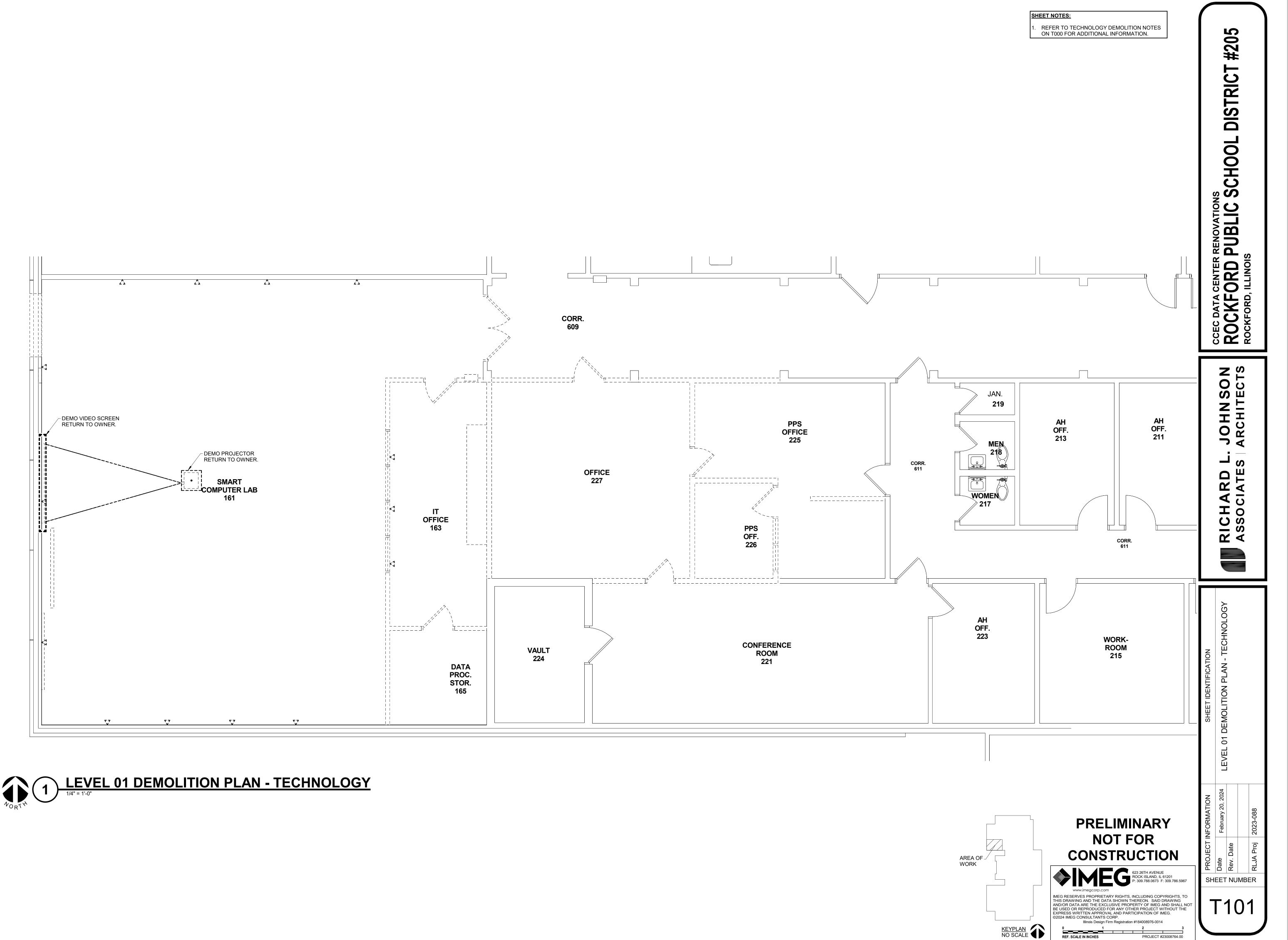
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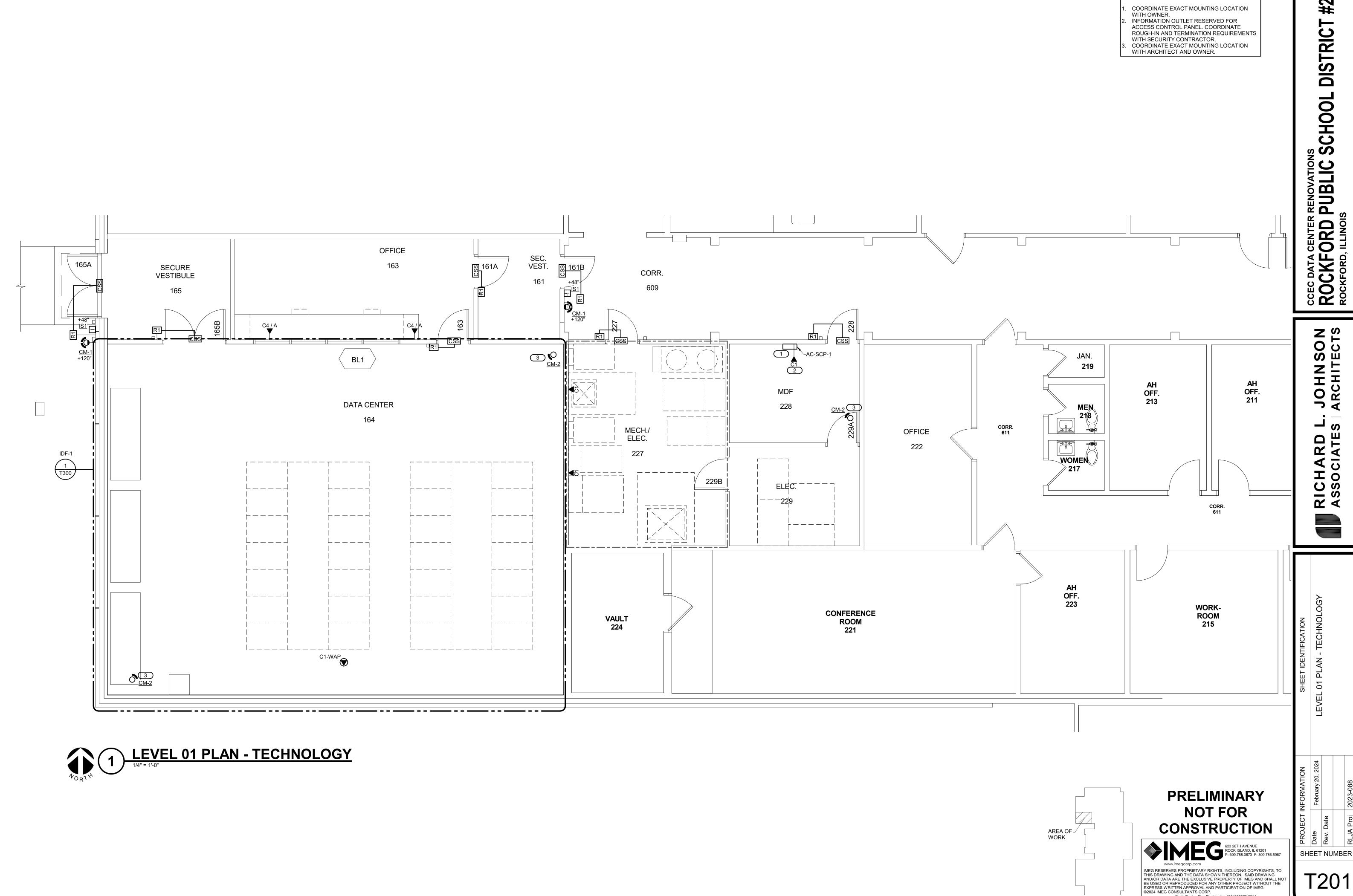
PROJECT #23008764.00

ADA STANDARDS FOR ACCESSIBLE DESIGN

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SHEET NUMBER





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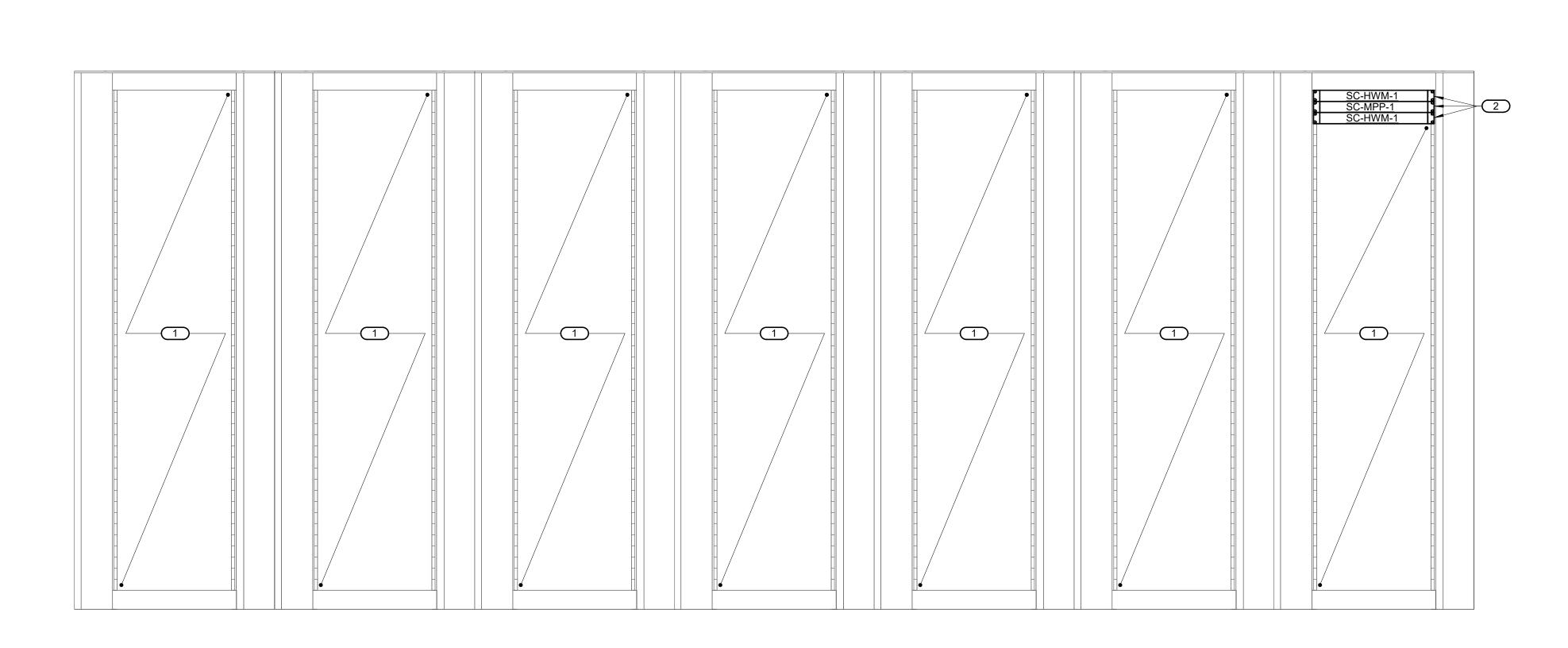
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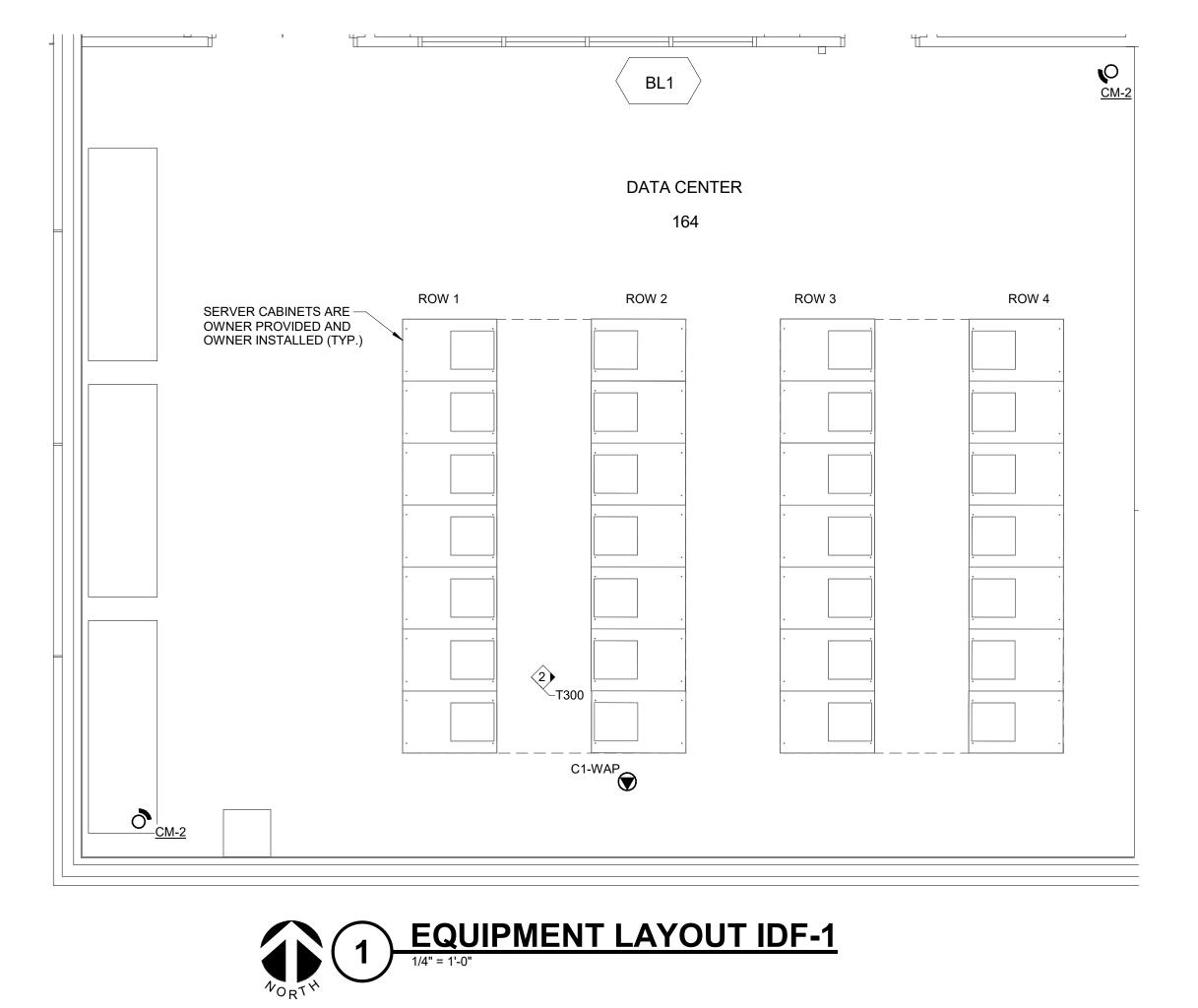
KEYNOTES: #

ALL TELECOMMUNICATIONS CABLING WILL BE ROUTED TO AND SERVED FROM IDF-1.

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KEYNOTES: #





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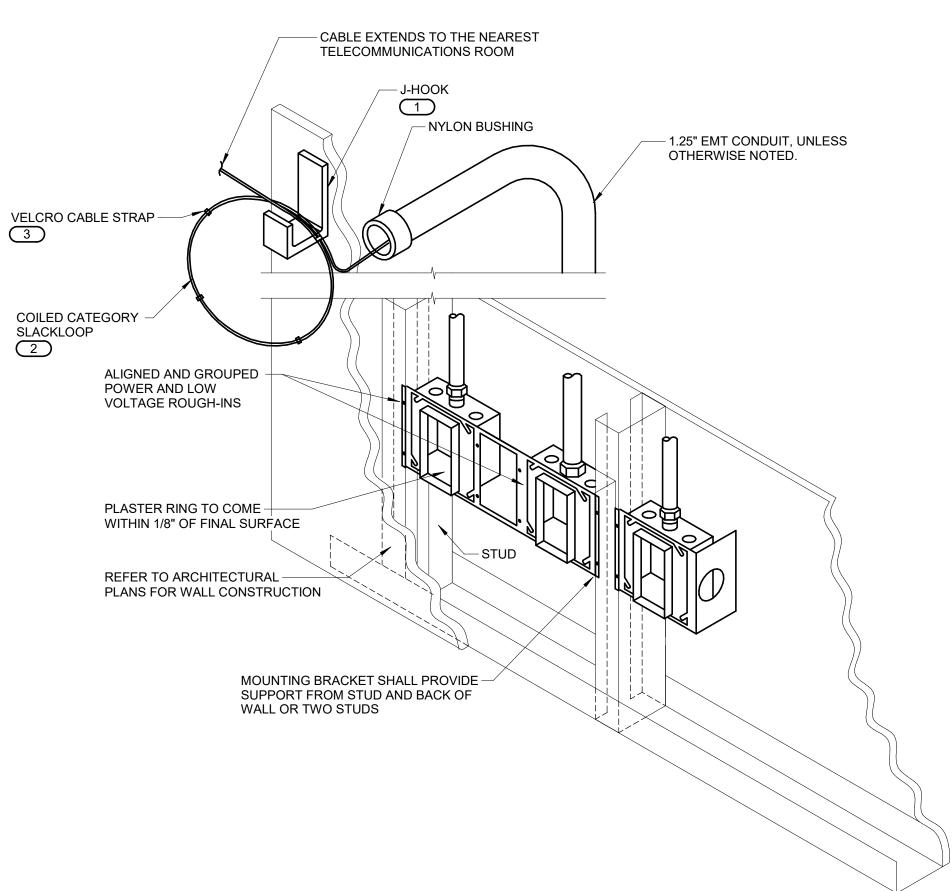
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REF. SCALE IN INCHES PROJECT #23008764.00

JOHN SON ARCHITECTS RICHARD ASSOCIATES

CCEC DATA CENTER RENOVATIONS
ROCKFORD, ILLINOIS

DISTRICT #205

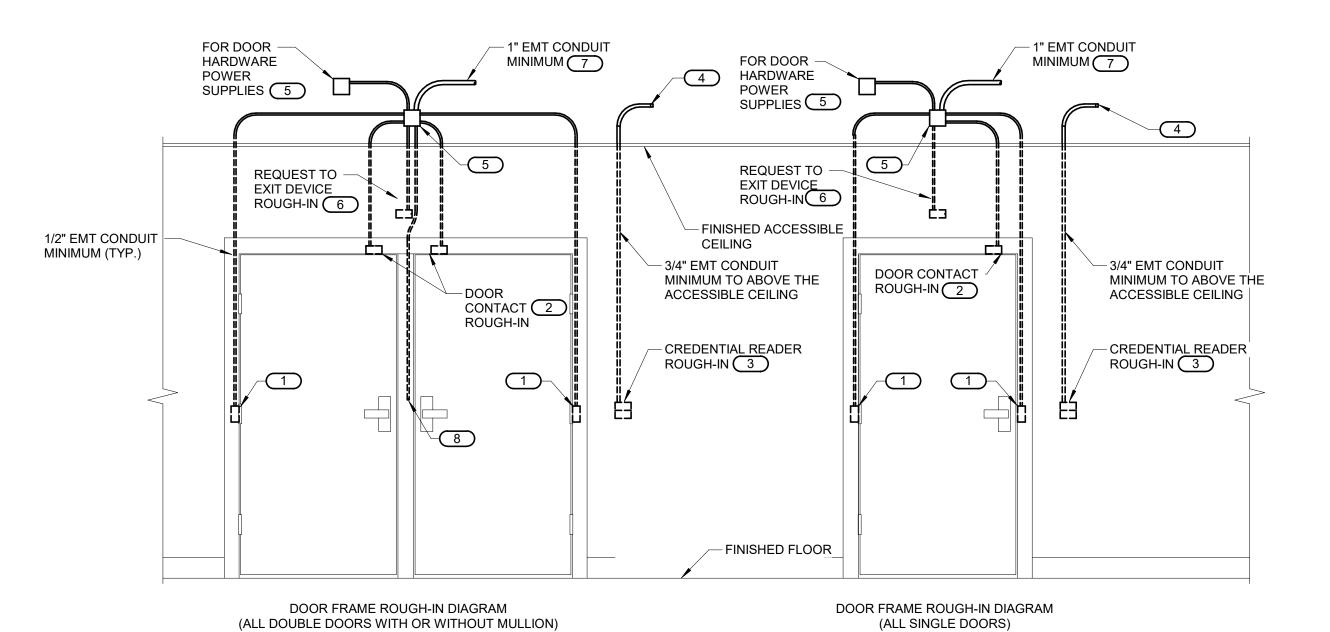


- 1. THE INTENT OF THE DETAIL IS TO ALIGN AND GROUP DEVICE ROUGH-INS FOR POWER AND LOW VOLTAGE TECHNOLOGY SYSTEMS. SOLIDLY MOUNTED AND THE SURFACE OF THE TRIM IS EITHER FLUSH WITH THE WALL SURFACE OR WITHIN 1/8" OF THE WALL SURFACE. JUNCTION BOXES LARGER THAN 4" SQUARE SHALL BE MOUNTED IN A MANNER THAT IS SIMILAR TO THE SYSTEM NOTED ABOVE OR ACHIEVES THE SAME RESULTS.
- PLASTER RINGS DEPTH SHALL BE 1/8" DEEPER THAN THE GYP BOARD APPLIED TO THE WALL.
- PLASTER RING SHALL BE 3/4" FOR USE WITH 5/8" GYP BOARD. 3. METAL STUD-TO-STUD MOUNTING BRACKETS FOR MULTIPLE BOXES BETWEEN STUD. ERICO CADDY RBS## SERIES, EATON B-LINE BB SERIES, OR EQUAL
- MOUNTING SUPPORT BRACKETS SIZES FOR SINGLE BOXES IN A STUD CAVITY SHALL MATCH THE
- STUD DEPTH. ERICO CADDY H## SERIES, EATON B-LINE BB## SERIES, OR EQUAL 5. WHERE RECEPTACLE AND TECHNOLOGY DEVICES ARE SHOWN SERVING A COMMON COMPUTER OR EQUIPMENT, OR SHOWN IN SIMILAR LOCATIONS ON THE DRAWINGS THE DEVICES SHALL BE INSTALLED IN THE SAME STUD CAVITY WITH MOUNTING BRACKETS OR ALIGNED ON OPPOSITE SIDES
- OF A COMMON STUD WITH SEPARATE SUPPORT. 6. TERMINATE CONDUIT STUB ORIENTED HORIZONTALLY AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE. CONDUIT RUN SHALL NOT CONTAIN MORE THAN 180 DEGREES OF BEND BETWEEN ACCESSIBLE JUNCTION BOXES OR BETWEEN JUNCTION BOX AND END OF CONDUIT.
- 7. WHERE CONDUIT STUB IS LOCATED IN A ROOM WITH AN ACCESSIBLE CEILING AND IS NOT REQUIRED TO RUN TO CABLE ROUTE LOCATED OUTSIDE THE ROOM, STUB MUST TERMINATE ABOVE THE ACCESSIBLE CEILING WITH A 90-DEGREE BEND AT THE TOP ORIENTED IN TO THE ROOM AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE IN THE ROOM.
- 8. ALL STUBS MUST BE FITTED WITH A NYLON BUSHING ON EACH END OF THE CONDUIT 9. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR TECHNOLOGY ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP

KEYNOTES:

- 1. MOUNT A DEDICATED J-HOOK TO THE NEAREST CEILING SUBSTRUCTURE, COLUMN, JOIST, OR WALL ABOVE THE CEILING AS SHOWN ON THE DRAWINGS. PROVIDE THE PROPER SUPPORT WHEN HANGING FROM THE CEILING SUBSTRUCTURE OR COLUMN WALL OR JOIST. REFER TO SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL REQUIREMENTS.
- 2. REFER TO SECTION 27 15 00 FOR SLACKLOOP LENGTH. MAINTAIN THE MANUFACTURERS BEND RADIUS FOR SLACKLOOP SIZE.
- 3. PROVIDE AND INSTALL A VELCRO CABLE STRAP ON THE SLACKLOOP APPROXIMATELY EVERY 6" ALONG THE SLACKLOOP. FOR SLACKLOOPS GREATER THAN 3' A MINIMUM OF (4) STRAPS WILL BE

TECHNOLOGY ROUGH-IN TO J-HOOK DETAIL



- 1. CONFIGURATIONS SHOWN IN THE DETAIL ABOVE ARE DIAGRAMMATIC, INTENDED TO DESCRIBE THE CONTROLLED SECURITY SCHEME ROUGH-IN REQUIREMENTS OF THE DOORS. DETAILS ABOVE MAY NOT ACCURATELY REPRESENT DOOR SIZE, DOOR SWING, DOOR HARDWARE, OR DOOR FUNCTIONALITY. REFER TO ARCHITECTURAL DOOR HARDWARE SCHEDULE, DOOR HARDWARE GROUPS AND DOOR HARDWARE SPECIFICATIONS
- FOR COMPLETE INFORMATION. MIRROR THE DETAIL AS REQUIRED. 2. ROUGH IN SHOWN IN THE DETAIL ABOVE REPRESENTS THE MINIMUM REQUIREMENTS FOR ALL CONTROLLED SECURITY SYSTEM DEVICES AND CABLING UNLESS OTHERWISE NOTED. COORDINATE EXACT REQUIREMENTS WITH SELECTED DOOR MATERIALS, DOOR HARDWARE, AND
- CONTROLLED SECURITY DEVICES AND CABLING PRIOR TO INSTALLATION. 3. ALL CABLING IN WALLS AND WHERE EXPOSED ON VERTICAL SURFACES SHALL BE INSTALLED IN EMT CONDUIT OR SURFACE MOUNT RACEWAY. CABLING ROUTED HORIZONTALLY ABOVE THE ACCESSIBLE CEILING MAY BE INSTALLED FREE-AIR CABLING PROPERLY RATED FOR THE CEILING
- 4. THE ELECTRICAL OR SECURITY CONTRACTOR SHALL NOT MODIFY ANY FIRE RATED DOOR AND/OR DOOR FRAME. REFER TO THE ARCHITECTURAL DOOR SCHEDULE, DOOR HARDWARE SCHEDULE, AND DOOR HARDWARE SPECIFICATION FOR ADDITIONAL INFORMATION. MODIFICATION TO ANY FIRE RATED DOOR AND/OR FRAME WILL REQUIRE A RE-CERTIFICATION OF THE DOOR AND FRAME WITH THE LOCAL AUTHORITY HAVING
- 5. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR ALL CONTROLLED SECURITY SCHEME ROUGH-INS PER PROJECT
- REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. 6. REFER TO THE ACCESS CONTROL RISER DIAGRAM ON T600 FOR CABLING REQUIREMENTS AND THE CONTROLLED SECURITY SCHEME (CSS) TYPE
- SCHEDULE ON T600 FOR ADDITIONAL INFORMATION. 7. INSTALLATION SHALL INCLUDE ALL POWER REQUIRED FOR SYSTEM OPERATION INCLUDING +120VAC. REFER TO THE SUGGESTED MATRIX OF SCOPE RESPONSIBILITY FOR ADDITIONAL INFORMATION.

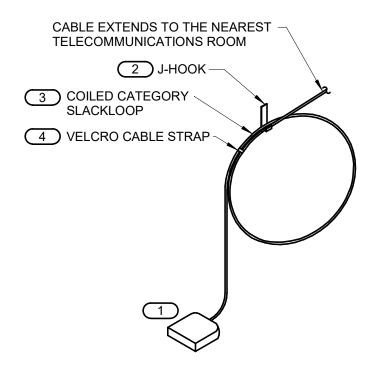
KEYNOTES:

- 1. PROVIDE JUNCTION BOXES IN THE DOOR FRAME WHERE SHOWN ON THIS DETAIL. ROUGH-IN SHALL BE PROVIDED WHETHER THE CURRENT SECURITY SCHEME UTILIZES THEM OR NOT. ALL CONDUITS SHALL BE EMT CONDUIT UNLESS OTHERWISE NOTED. FLEXIBLE CONDUIT OF ANY TYPE WILL NOT BE ACCEPTED. COORDINATE INSTALLATION WITH ON-SITE DOOR FRAME INSTALLATION CONTRACTOR.
- 2. ALL DOOR POSITION SWITCHES ARE REQUIRED TO BE RECESSED UNLESS OTHERWISE NOTED. ELECTRIC HINGE MONITORS ARE NOT AN ACCEPTABLE REPLACEMENT FOR THE RECESSED DOOR POSITION SWITCH.
- 3. 4" SQUARE BACKBOX WITH SINGLE GANG PLASTER RING. PROVIDE 2 1/2" DEEP MASONRY BOX WHERE APPLICABLE. REFER TO FLOOR PLAN(S) FOR ACTUAL CREDENTIAL READER TYPE AND ROUGH-IN LOCATIONS. 4. CONDUIT SHALL ROUTE FROM THE CREDENTIAL READER TO THE SECURE SIDE OF THE DOOR. CONDUIT SHALL ROUTE A MINIMUM OF 12" FROM THE
- JUNCTION BOX. TO THE NEAREST TELECOM ROOM. PROVIDE A NYLON BUSHING ON CONDUIT END. 5. MOUNT A MINIMUM 4" SQUARE 2-1/8" DEEP JUNCTION BOX WITH BLANK COVER PLATE ON THE SECURE SIDE OF THE DOOR ABOVE ACCESSIBLE
- CEILING. INSTALLING CONTRACTOR SHALL SIZE THE JUNCTION BOXES PER SYSTEM INSTALLATION REQUIREMENTS AND APPLICABLE CODES. MAINTAIN ACCESS TO THE JUNCTION BOX.
- 6. PROVIDE A HORIZONTALLY MOUNTED SINGLE GANG BACKBOX FOR THE REQUEST TO EXIT SENSOR. REFER TO THE CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE ON T600 FOR DOORS THAT REQUIRE THIS ROUGH-IN.

LOCATIONS THAT REQUIRE THIS ROUGH-IN. PROVIDE A NYLON BUSHING ON THE CONDUIT END.

- . CONDUIT SHALL ROUTE A MINIMUM OF 12" FROM THE JUNCTION BOX. PROVIDE A NYLON BUSHING ON CONDUIT END. 8. CONDUIT INSTALLED IN PERMANENT MULLIONS ONLY. REFER TO THE ARCHITECTURAL DOOR SCHEDULE AND DOOR HARDWARE GROUPS FOR

CONTROLLED SECURITY SCHEME DOOR ROUGH-IN DETAIL



- 1. THIS DIAGRAM MAY NOT REPRESENT THE QUANTITY OF CABLES TO EACH INFORMATION OUTLET JUNCTION BOX. REFER TO THE DRAWINGS AND THE
- INFORMATION OUTLET SCHEDULE FOR ADDITIONAL INFORMATION. 2. ALL DEVICES ARE INSTALLED ABOVE THE CEILING UNLESS OTHERWISE NOTED.

- 1. 1 OR 2-PORT PLENUM RATED SURFACE MOUNTED BOX, SUPPORT FROM J-HOOK. REFER TO THE INFORMATION OUTLET SCHEDULE AND TECHNOLOGY EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
- 2. MOUNT A DEDICATED J-HOOK TO THE NEAREST CEILING SUBSTRUCTURE, COLUMN, JOIST, OR WALL ABOVE THE CEILING AS SHOWN ON THE DRAWINGS. PROVIDE THE PROPER SUPPORT WHEN HANGING FROM THE CEILING SUBSTRUCTURE OR COLUMN WALL OR JOIST. REFER TO SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL REQUIREMENTS.
- 3. REFER TO SECTION 27 15 00 FOR SLACKLOOP LENGTH. MAINTAIN THE
- MANUFACTURERS BEND RADIUS FOR SLACKLOOP SIZE. 4. PROVIDE AND INSTALL A VELCRO CABLE STRAP ON THE SLACKLOOP APPROXIMATELY EVERY 6" ALONG THE SLACKLOOP. FOR SLACKLOOPS GREATER THAN 3' A MINIMUM OF (4) STRAPS WILL BE INSTALLED.





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Illinois Design Firm Registration #184008976-0014 <u>_____</u> PROJECT #23008764.00

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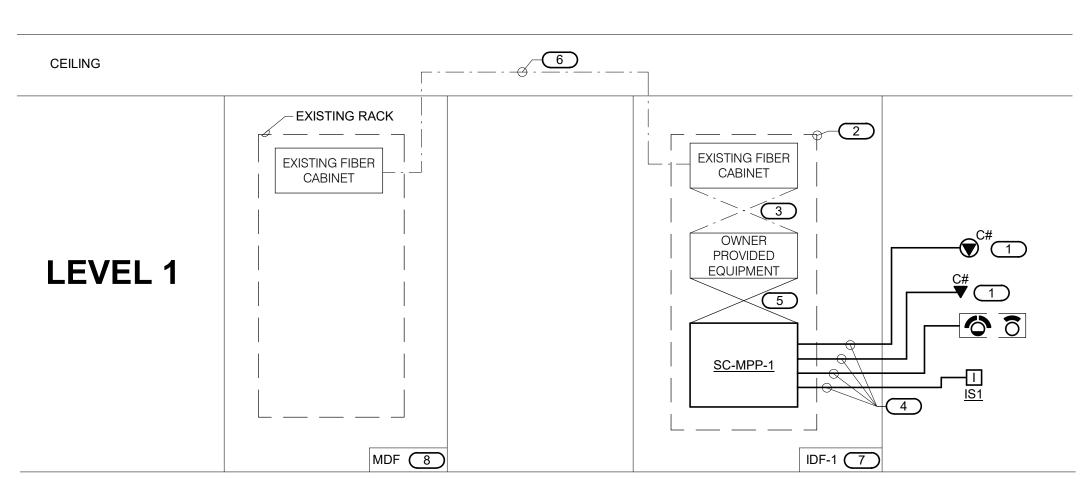
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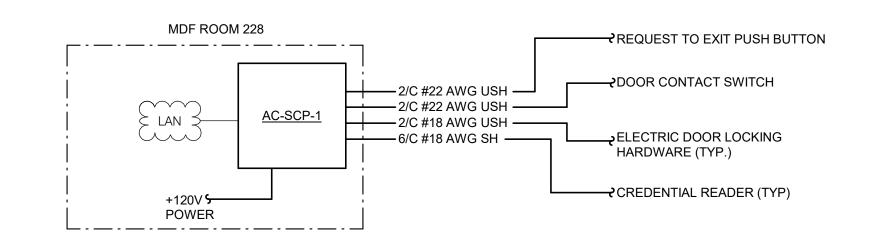
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- 1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL
- 2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.

KEYNOTES:

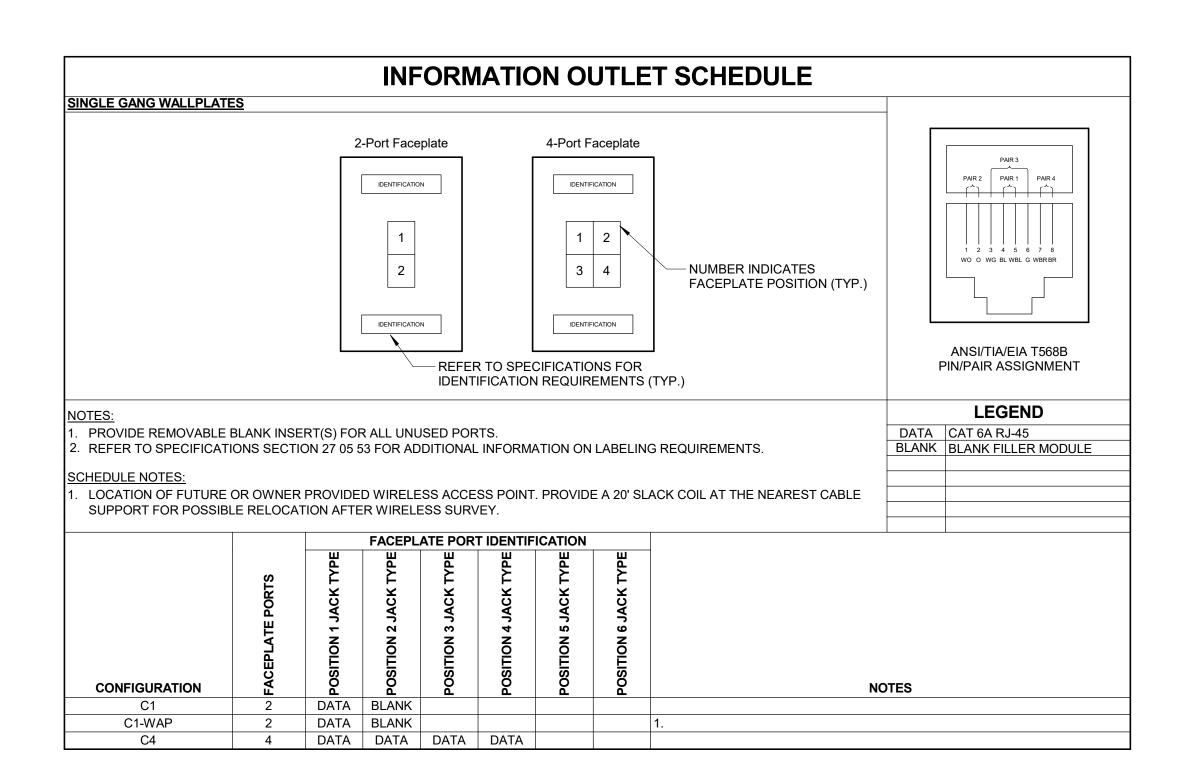
- 1. C# INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
- 2. EXISTING CABINET BY OTHERS. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
- FIBER PATCH CORDS BY OWNER.
 4-PAIR, CATEGORY 6A UNSHIELDED TWISTED PAIR CABLE,
- REFER TO SPECIFICATIONS.
- 5. COPPER PATCH CORDS BY OWNER. 6. FIBER OPTIC CABLE BY OWNER.
- 7. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
- 8. MDF SHOWN ON RISER DIAGRAM FOR OWNER REFERENCE
- **COPPER RISER DIAGRAM**



NOTES:

- 1. THIS DIAGRAM IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL DEVICE QUANTITIES OR LOCATIONS. ALL DEVICES SHOWN ARE TYPICAL AND MAY NOT REFLECT EVERY WIRE OR CONNECTION THAT MUST BE MADE. WIRING SHOWN ON THIS DIAGRAM REFLECTS THE REQUIREMENTS FOR THE BASIS OF DESIGN MANUFACTURER. ANY CHANGES REQUIRED DUE TO THE T.C.'S SELECTION OF AN ALTERNATE MANUFACTURER, INCLUDING ANY POWER REQUIRED FOR FIELD LOCATED SECURITY CONTROLLERS, SHALL BE INCLUDED IN THE
- ALL CONDUCTOR SIZES ARE LISTED A MINIMUM SIZES.
 MULTICONDUCTOR COMPOSITE CABLES ARE ACCEPTABLE.





ELECTRONIC REFER TO TH		CRE	OGY E	EQUIPI		SCHEI	RIC S	TRIKE FOR (ES, EL CRED	ECTRI ENTIAI	C LAT	CH REDER T	TRAC	TION, IFORM	ETC.	SHALI DN.	BE P		OED AN	ND INS		ED BY		IER		EDULE
OOOR #	ROUGH-IN ONLY	CREDENTIAL READER TYPE	MULTIPLE CREDENTIAL READERS OPERATES SINGLE DOOR	OPERATES MULTIPLE DOORS	AUTOMATIC DOOR OPERATOR	LOCKED BY EMERGENCY DURESS SEQUENCE	REMOTE UNLOCK VIA INTERCOM SYSTEM	REMOTE UNLOCK VIA PUSHBUTTON	INTRUSION DETECTION	REMOTE UNLOCK VIA FIRE COMMAND CENTER	VIDEO SURVEILLANCE	MOTION DETECTOR	LOCAL PUSHBUTTON DOOR HARDWARE OVERRIDE	INTERNAL ELECTRIFIED HARDWARE CONNECTION (BY OTHERS)	ELECTRONIC LOCKING HARDWARE (BY OTHERS)	MAG LOCK	LATCH STATUS DETECTION (BY OTHERS)	LOCAL ALARM HORN	MONITOR LATCH BOLT (BY OTHERS)	MONITOR DOOR POSITION SWITCH SPDT	MONITOR DOOR POSITION SWITCH DPDT	DELAYED EGRESS (BY OTHERS)	LOCAL 120VAC POWER SUPPLY	SCHEDULE BASED LOCKING	VISUAL STROBE/AUDIBLE ALARM	NOTES
161A		R1												•	•					•						
161B 163		R1 R1					•							•	•					•						
165A		R1					•							•	•					•						
165B		R1					-							•	•					•						
227		R1												•	•					•						
44 1	1	13.1	1 1		1										_					•						

TECHNOLOGY EQUIPMENT SCHEDULE

THE EQUIPMENT LIST ABBREVIATIONS AND THE TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING

CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.

EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	MANUFACTURER AN MODEL
AC-R1-W	CARD READER. PROVIDED AS INTEGRAL PART OF SECURITY MANAGEMENT SYSTEM. REFER TO CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE ON T600 FOR ADDITIONAL INFORMATION. CARD READERS SHOWN ON PLANS TO IDENTIFY INTENDED MOUNTING LOCATION. REFER TO SPECIFICATION SECTION 28 13 00 FOR COMPLETE INFORMATION.	HID iCLASS SE RKLB40 NO SUBSTITUTION
AC-SCP-1	SECURITY MANAGEMENT SYSTEM CONTROL PANEL, FOR USE WITH INTEGRATED SECURITY MANAGEMENT SYSTEM. REFER TO SPECIFICATION SECTION 28 13 00 FOR COMPLETE INFORMATION.	LENEL S2 NETBOX
IC-IS1-W		AXIS 18116E NO SUBSTITUTION
	PROVIDE WITH RECESSED MOUNT, WITH APPROPRIATE CABEL PATHWAY PER MANUFACTURES RECOMMENDATION, TO ABOVE ACCESSIBLE CEILING (AXIS TI8202) AT +48" AFF. COORDINATE FINAL MOUNTING REQUIREMENTS AND LOCATION WITH ARCHITECT AND OWNER PRIOR TO PURCHASE AND INSTALLTION.	
SC-HWM-1	SINGLE RACK UNIT HORIZONTAL WIRE MANAGER WITH COVER. PLASTIC MOLDED WITH PASS THROUGH HOLES, INTEGRAL BEND RADIUS CONTROL AND FINGERS WITH ROUND EDGES. HINGED COVER ALLOWING ACCESS TO CABLE PATHWAY. FITS 19"EIA RACK.	PANDUIT WMPLFSE
		COMMSCOPE BELDEN
SC-IO-C	INFORMATION OUTLET, WIRELESS ACCESS POINT, CEILING MOUNT, 2 PORT SURFACE MOUNT BOX AS INDICATED ON DRAWINGS.	COVERPLATE: PANDUIT CBX2WH-AY
	"#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE FLOOR PLANS. REFER TO SHEET T600 FOR INFORMATION OUTLET SCHEDULE FOR PIN CONFIGURATION. REFER TO 3/T400 FOR ABOVE CEILING INFORMATION OUTLE MOUNTING DETAIL.	JACK: (CAT6A) CJX88TGBU
		COMMSCOPE BELDEN
SC-IO-W	WALL MOUNTED INFORMATION OUTLET. INFORMATION OUTLET INCLUDES A FACEPLATE WITH JACKS IN A PREDEFINED CONFIGURATION.	COVERPLATE: PANDUIT CFPL2WHY
	"#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE DRAWINGS AND THE INFORMATION OUTLET SCHEDULE ON T600.	JACK:
	INSTALL INFORMATION OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL 1.25" EMT CONDUIT TO ABOVE ACCESSIBLE CEILING. REFER TO 1/T400 FOR ROUGH-IN INFORMATION	(CAT6A) CJX88TGBU
		COMMSCOPE BELDEN
SC-MPP-1	48-PORT MODULAR PATCH PANEL. INCLUDES PROVISIONS TO INSERT UP TO 48 MODULAR JACKS IN ANY CONFIGURATION WITH PORT IDENTIFICATION AND LABELING, MOUNTS DIRECTLY TO EIA/TIA STANDARD 19" RELAY RACK. PROVIDED WITH COLOR CODING AND LABEL HOLDER KITS. PROVIDE DATA JACKS FOR ALL UNUSED PORTS FOR FUTURE. REQUIRES (2) 1.75" RACK UNITS OF SPACE.	PANDUIT PANEL: CPPL48WBLY
		COMMSCOPE BELDEN
VS-CM-1	VIDEO SUREVEILLANCE CAMERE, WALL MOUNT. IP BASED, 7MP RESOLUTIONM, 180-DEGREE FOV. 30FPS	AXIS P3265-PVE
	INSTALL SINGLE-GANG BACKBOX WITH 1" CONDUIT STUBBED TO ABOVE ACCESSIBLE CEILING. PROVIDE MOUNTING BRACKETS, HARDWARE AND ACCESSORIES AS NEEDED FOR A COMPLETE INSTALLATION.	NO SUBSTITUTION
VS-CM-2	VIDEO SURVEILLANCE CAMERA, CEILING MOUNT. IP BASED, 2 MP, VARIFOCAL.	AXIS M4215-LV
	INSTALL SINGEL-GANG BACK BOX WITH 1" CONDUIT STUBBED 6" BEYOND BACK BOX. PROVIDE MOUNTING BRACKETS, HARDWARE AND ACCESSORIES AS NEEDED FOR A COMPLETE INSTALLATION.	NO SUBSTITUTION

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