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# FIRE-RATED PENETRATION CHART

CONCRETE OR BLOCK WA	LLS		CONCR
TYPE OF PENETRATE	FIRE RATING	UL CLASSIFIED SYSTEM	TYPE OF
CIRCULAR BLANK	1	CAJ 0055, CAJ 0070	CIRCUL
OPENINGS	2	CAJ 0055, CAJ 0070	
	3	CAJ 0055	1
SINGLE METAL PIPES OR CONDUIT	1	CAJ 1226, WJ 1021	SINGLE
	2	CAJ 1226, WJ 1021	
	3	CAJ 1226, WJ 1041, WJ 1042	1
SINGLE NON-METALLIC	1	CAJ 2109, CAJ 2098, CAJ 2167	SINGLE
PIPE OR CONDUIT (I.E. PVC, CPVC, ABS, FRP,	2	CAJ 2109, CAJ 2098, CAJ 2167	PIPE OR
ENT)	3	CAJ 2109, CAJ 2098	ENT)
SINGLE OR BUNDLED	1	WJ 3036, CAJ 3095, CAJ 3096	SINGLE
CABLES	2	2 WJ 3036, CAJ 3095, CAJ 3096	
	3	CAJ 3095, CAJ 3096	1
CABLE TRAY	1	WJ 4016, CAJ 4034, CAJ 4035	CABLE T
	2	WJ 4016, CAJ 4034, CAJ 4035	1
	3	CAJ 4034, CAJ 4035	1
SINGLE INSULATED PIPES	1	CAJ 5090, CAJ 5091, CAJ 5061	SINGLE
	2	CAJ 5090, CAJ 5091, CAJ 5061	1
	3	CAJ 5090, CAJ 5061	
ELECTRICAL BUSWAY	1	CAJ 6006, CAJ 6017	ELECTRIC
	2	CAJ 6006, CAJ 6017	1
	3	CAJ 6006, CAJ 6017	
NON-INSULATED	1	CAJ 7046, CAJ 7051, WJ 7021, WJ 7022	NON-INS
MECHANICAL	2	CAJ 7046, CAJ 7051, WJ 7021, WJ 7022	
DAMPERS	3	CAJ 7046, CAJ 7051	DAMPER
MIXED PENETRANTS	1	CAJ 8041, CAJ 8056, WJ 8007	MIXED P
	2	CAJ 8041, CAJ 8056, WJ 8007	]
	3	CAJ 8041, CAJ 8056, WJ 8007	]

CONCRETE FLOORS			GYPSUM WALLBOARD ASSE	EMBLIES	
TYPE OF PENETRANT	FIRE RATING	UL CLASSIFIED SYSTEM	TYPE OF PENETRANT	FIRE RATING	UL CLASSIFIED SYSTEM
CIRCULAR BLANK	1	FA 0006, CAJ 0055, CAJ 0070	METAL PIPES OR CONDUIT	1	WL 1054, WL 1058, WL 1164
OPENINGS	2	FA 0006, CAJ 0055, CAJ 0070		2	WL 1054, WL 1058, WL 1164
	3	FA 0006, CAJ 0055			
SINGLE METAL PIPES OR	1	CAJ 1226, FA 1017	NON-METALLIC PIPES OR	1	WL 2078, WL 2075, WL 2128
CONDUIT	2	CAJ 1226, FA 1017	CONDUIT	2	WL 2078, WL 2075, WL 2128
	3	CAJ 1226, FA 1017			
SINGLE NON-METALLIC	1	FA 2053, FA 2025, CAJ 2109, CAJ 2098, CAJ 2141, CAJ 2167, CBJ 2021	SINGLE OR BUNDLED	1	WL 3065, WL 3111, WL 3112
PIPE OR CONDUIT (I.E. PVC, CPVC, ABS, FRP,	2	FA 2053, FA 2025, CAJ 2109, CAJ 2098, CAJ 2141, CAJ 2167, CBJ 2021	CABLES	2	WL 3065, WL 3111, WL 3112
ENT)	3	FA 2054, CAJ 2109, CAJ 2098			
SINGLE OR BUNDLED	1	FA 3007, CAJ 3095, CAJ 3096	CABLE TRAY	1	WL 4011, WL 4019
CABLES	2	FA 3007, CAJ 3095, CAJ 3096		2	WL 4011, WL 4019
	3	FA 3007, CAJ 3095, CAJ 3096			
CABLE TRAY	1	CAJ 4034, CAJ 4035	INSULATED PIPES	1	WL 5028, WL 5029, WL 5047
	2	CAJ 4034, CAJ 4035		2	WL 5028, WL 5029, WL 5047
	3	CAJ 4034, CAJ 4035			
SINGLE INSULATED PIPES	1	FA 5015, FA 5016, CAJ 5090, CAJ 5091, CAJ 5098	NON-INSULATED	1	WL 7017, WL 7040, WL 7042
	2	FA 5015, FA 5016, CAJ 5090, CAJ 5091, CAJ 5098		2	WL 7040, WL 7042
	3	FA 5016, CAJ 5090	DAMPERS		
ELECTRICAL BUSWAY	1	CAJ 6006, CAJ 6017	MIXED PENETRANTS	1	WL 1095, WL 8013
	2	CAJ 6006, CAJ 6017		2	WL 1095, WL 8013
	3	CAJ 6006, CAJ 6017			
NON-INSULATED	1	CAJ 7046, CAJ 7051		-	
MECHANICAL	2	CAJ 7046, CAJ 7051			AT CYPCIINA
DAMPERS	3	CAJ 7046, CAJ 7051	$\square$ U.L. AS		
MIXED PENETRANTS	1	CAJ 8041, CAJ 8056			
	2	CAJ 8041, CAJ 8056	N.T.S.		
	3	CAJ 8041, CAJ 8056			









4 FIRE AND/OR SMOKE PROTECTED ASSEMBLY MARKING DETAIL Scale: N.T.S



KNEE CLEARANCE



TOE CLEARANCE



BARRIER FREE CLEARANCES 6 BARKIL 3/8" = 1'-0"

# U.L. ASSEMBLIES AT CONCRETE FLOOR PENETRATIONS

— STENCILED SIGNAGE

— 3" MIN. TEXT HEIGHT

- <sup>3</sup>/<sub>8</sub>" MIN. STROKE THICKNESS



IN ALL LOCATIONS OF CORRIDOR AND PASSAGE WALLS, THE GYPSUM WALL BOARD SHALL BE IMPACT-RESISTANT ON THE CORRIDOR OR PASSAGE SIDE OF THE PARTITION.













SYMBOL LIST		MATERIAL LEC	Gend	GENERAL NOTES				
	wall section number			<ol> <li>ALL CONTRACTORS SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS BEFORE SUBMITTING A BID. DISCREPANCIES OR OMISSIONS MUST BE REPORTED TO THE ARCHITECT IN WRITING (10) DAYS PRIOR TO BID OPENING. IF HE OR SHE DOES NOT, CONTRACTOR SHALL CORRECT SAME AT NO CHANGE IN CONTRACT PRICE.</li> </ol>				
	—— arawing number	A.C.B. / A.C.T.	CMU	2. CONTRACTOR SHALL PROVIDE ALL REQUIRED SAFETY PROTECTION DURING CONSTRUCTION.				
XXX	detail number			<ol> <li>IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE A SUFFICIENT WORK FORCE TO MEET COMPLETION DATES AS OUTLINED IN THE SPECIFICATIONS. NO EXCEPTIONS WILL BE ALLOWED.</li> </ol>				
AXXX	DETAIL INFORMATION			4. DO NOT SCALE THE DRAWINGS.				
<u> </u>	drawing number		PURUUS FILL	5. DETAILS NOTED "TYPICAL" IMPLY ALL SUCH CONDITIONS BE TREATED SIMILARLY.				
(X)	DEMOLITION NOTE REFERENCE TAG SEE DEMOLITION NOTES	PI ASTER / GYP RD / FIES		6. MATERIALS LISTED ON THE FINISH SCHEDULE REFER TO THE MAJORITY OF WALLS, FLOOR AND CEILING OF ROOMS SCHEDULED, REFER TO PLANS, DETAILS, INTERIOR ELEVATION, CEILING PLANS, AND NOTES FOR THOSE MATERIALS NOT INDICATED ON THE SCHEDULE BUT ARE STILL REQUIRED IN THE ROOM.				
<u> </u>	WINDOW OR CURTAINWALL TYPE SEE WINDOW/CURTAINWALL SCHEDULE			7. UNLESS OTHERWISE NOTED AND UNLESS FACTORY FINISHED, ALL EXPOSED SURFACES OF CMU, CONCRETE, PLASTER, WOOD, GYPSUM BOARD, HOLLOW METAL, HARDWOODS, MISC. METALS ETC., ARE TO RECEIVE PRIME AND FINISH COATS OF PAINT OR CLEAR FINISH AS SPECIFIED AND IN COLORS AS SELECTED BY ARCHITECT. EXCLUDED FROM THIS IS BRICK.				
<u> </u>	DOOR NUMBER SEE DOOR SCHEDULE	STUD PARTITION	BATT INSULATION	8. CALL BEFORE YOU DIG. BEFORE DIGGING CONTRACTOR SHALL CALL 1-800-242-1776 TO HAVE UTILITIES IDENTIFY UNDERGROUND LOCATION OF ALL SERVICE LINES.				
<u> </u>	BORROWED LIGHT NUMBER SEE DOOR SCHEDULE			9. ALL WORK PERTAINING TO THESE DRAWINGS SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND IN AGREEMENT WITH ALL AGENCIES HAVING JURISDICTION.				
XXXX 000	— ROOM NAME/NUMBER	ROUGH WOOD	PLYWOOD	10. THE CONTRACTOR IS RESPONSIBLE TO SECURE ALL PERMITS, TO OBTAIN APPROVALS AS REQUIRED AND COORDINATE INSPECTION WITH LOCAL BUILDING INSPECTOR. ALL PERMIT AND APPLICATION FEES WILL BE PAID BY THE OWNER AND DELIVERED BY THE				
X		FINISH WOOD	FACE BRICK	11. DRAWINGS AND SPECIFICATIONS COMPLEMENT EACH OTHER. WORK NOT SHOWN ON DRAWING BUT CALLED FOR IN THE SPECIFICATIONS IS STILL REQUIRED, AND ALL WORK NOT CALLED FOR IN SPECIFICATIONS, BUT CALLED OUT OR SHOWN IN DRAWINGS IS STILL REQUIRED.				
X	بن NUMBER OR LETTER			12. THE OWNER WILL REMOVE AND RE-INSTALL ALL MOVEABLE EQUIPMENT. EACH CONTRACTOR IS RESPONSIBLE TO REMOVE, STORE AND RE-INSTALL EXISTING BUILT-IN EQUIPMENT REQUIRED TO PERFORM THEIR WORK UNLESS NOTED OTHERWISE.				
XX	elevation number	METAL / STEEL	RIGID INSULATION	<ol> <li>IN ACCORDANCE WITH NJAC 5:23-6.6(i), ALL MATERIALS AND METHODS USED SHALL COMPLY WITH THE REQUIREMENTS SPECIFIED IN N.J.A.C. 5:23-6.8, MATERIALS AND METHODS.</li> </ol>				
AXXX	INTERIOR ELEVATION — drawing number			14. WHERE THERE IS AN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACE, FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED IN ACCORDANCE WITH THE FIRE AND/OR SMOKE				

PROTECTED ASSEMBLY MARKING DETAIL. REFER TO G003 FOR DETAIL.

# ABBREVIATIONS

AA	СВ	Acrylic acoustical ceiling board	E	East	ID	Inside diameter	R	Riser
A/C	C	Air conditioning	EA	Each Exhibition Board		Inlet	RA	Return air Padius
AD	B	Acoustical ceiling board	ЕD EC	Electrical contractor	INT	Interior	RBT	Rubber tile
AD		Area drain	EF	Exhaust fan	INV	Invert	RCP	Reinforced concrete pipe
AD.	J	Adjacent	EIFS	Exterior insulated finish system			RD	Roof drain
AD. AFF	JI =	Above finished floor	EJ, EXP JI Fl	Expansion joint Elevation	IC	lanitor's closet	RFF	Reference (s)
AG	G	Aggregate	ELEC	Electrical	JT	Joint	REFL	Reflected
AL	-	Aluminum	ELEV	Elevator			REG	Register
ALI ALT		Alternate bid		Emergency Enclosure	KCPI	Keene's cement plaster	REM	Required
ANG	C	Anchor, Anchorage	ENTR	Entrance	KUT	Kitchen	RES	Resilient
ANG	OD	Anodized	EOP	Edge of paving	KPL	Kickplate	RET	Return
AP	v	Access panel	EP	Epoxy paint	•		RFG	Roofing
APX ARC	х Сн	Architect	FQ	Ennylene propylene diene monomers Faual	5	lenath	RH	Right hand
7 4 4 4			EQP	Equipment	LAB	Laboratory	RM	Room
			ERF	Epoxy Resinous Flooring	LAM	Laminate (d)	RO	Rough opening
BB.		Bottom of bank Board	EIR ETD D	Existing To Remain Existing To Remain Polinished		Lavatory	ROW	Right of way Rubbar, base
BIT		Bituminous	ETZ	Epoxy Terrazzo	LER	Lineal foot/Linear feet	RV	Radon vent
BF		Barrier Free	EWC	Electric water cooler	LH	Left-hand	RWC	Rain water conductor
BLD	)G	Building	EXB	Expansion bolt	LL	Liveload		
BLK BLK	Ϋ́C	Blocking	EXG FXP	Existing	LOC	Location Low point	2	South
BM		Bench mark	EXT	Exterior	LTL	Lintel	SBS	Styrene butadiene styrene
BOT	Т	Bottom			LW	Lightweight	SEC	Security
BRC	G	Bearing			LWC	Lightweight concrete	SC	Solid core
BKK BR7	7	BIICK Bronze	FA FR	File alarm Face brick			SCH SCI	Schedule Structural clay tile
BS	-	Both sides	FBRK	Fire brick	MAS	Masonry	SD	Storm drain
BUR	२	Built up roof	FD	Floor drain	MAT	Material	SFGL	Safety glass
			FE	Fire extinguisher	MAX	Maximum	SG	Security glazing
CAL	R	Cabinet	FEC FFS	Fire extinguisher cabinet Flared end section	MECH	Mechanical Mechanical	SHM SHTH	Security nollow metal
CB		Catch basin	FF	Finish floor	MED	Medium	SIM	Similar
CEN	M PLAS	Cement plaster	FFE	Finished floor elevation	MET	Metal	SKL	Skylight
CEP	۲	CMU epoxy painted	FGL	Fiberglass Finish	MFR	Manufacturer Marbolo	SL	Sleeve
CFL CH1	L T	Ceiling height	FIN	Fixture	™⊓ MIN	Minimum	SOG	Sealann Slab on arade
CI		Cast iron	FLG	Flashing	MISC	Miscellaneous	SP	Soundproof
ĊJ		Control joint	FLR	Floor	MMB	Membrane	SPAC'G	Spacing
CL	<u>_</u>	Centerline / closet	FND	Foundation	MO	Masonry opening	SPEC	Specification
	Q Q	Clear		Frame Fiberalass reinforced polyester	MOV	Movable Mon recentor	SPF, BLK SPK	Splif face block Speaker
CM	ŇŬ	Concrete masonry unit	FP	Fire proof	MT	Marble threshold	SQ	Square
CO	DL .	Column	FRT	Fire retardant	MTD	Mounted	SQ. FT.	Square foot / feet
CO	NC	Concrete	FS	Floor sink	MTFR	Metal furring	SST	Stainless steel
CO	)ND NIST	Condition	FI FIC	Feet Footing	MULL	Mullion	SID	Standard
CO CO	NT	Continuous	FUR	Furring			STR	Structural
CO	NTR	Contractor			Ν	North	SUS	Suspended
CO	OL	Cooling	<u>.</u>		NIC	Not in contract	SWF	Security Window Film
CP CP	P	Copper	GA GB	Gauge Grab bar		Number	SYN Sys	Synthetic
CPT	T	Carpet	GC	General contractor	NRC	Noise reduction coefficient	515	System
CPT	Т – Т	Carpet Tile	GCMU	Glazed concrete masonry unit	NTS	Not to scale		
CRS	S	Course	GD	Grade, grading			T	Tread
CSA	MU	Calcium silicate masonry unit	GEP	Gypsum wall board epoxy painted	$\bigcirc$	Overall	IB.	lop of bank
CI	I	Ceramic tile	GI	Glass, Glazina		On center	TFI	Telephone
CTP	C	Clear tempered plate glass	GLB	Glass block	OD	Outside diameter	T&G	Tongue and groove
CTR	٢	Counter	GP	Gypsum wall board painted	OH	Overhead	TG.	Top of grate
CW	/P	Clear wire plate	GPDW	Gypsum drywall	OP	Opaque	TGR	Top of grade
			GRD F BLK	Ground face block	OPP	Opposite	THR	Threshold
D		Drain (s)	GSFT	Glazed structural facing tile	011		TKS	Tackstrip
DBL	L	Double	GST	Glazed structural tile			TLT, TOIL	Toilet
	٨	Drinking tountain	GI	Grout		Parallel Barticleboard	TOC	lop of curb Top of masonny
DIA	M	Diameter	GVL	Gravel	PC	Plumbing contractor	TOP	Top of plank
DK		Deck	GWB	Gypsum Wall Board	PCC	Precast concrete	TOS	Top of steel
DM	1B	Dry marker board			PERI	Perimeter	TPD	Toilet paper dispenser
		Down	ЦR	Hose hih	PG PK	Plate glass Parking	IPG TPTN	Tempered plate glass
DS		Downspout	HD	Head	PL	Plate	TV	Television
DW	/	Dumbwaiter	HDW	Hardware	P LAM	Plastic laminate	TYP	Typical
			HM	Hollow metal	PLAS	Plaster	TZ	Terrazzo
			HOR HP	Honzonial Highpoint	PNL PNT	Panel Paint (ed)		
			HR	Hour	PR	Pair	UC	Undercut
			HTR	Heater	PTT	Precast Terrazzo Tile	UL	Underwriter's laboratory
			нус	Heating & ventilation contractor	PKII PKII	Precast Resilient Terrazzo Tile	UNO	Unless noted otherwise
					PSI	Pounds per square inch	UN	UNITAL
					PTD	Paper towel dispenser		
					PTN	Partition	VAT	Vinyl asbestos tile
					PIR	Paper towel receptor Polywinyl chloride	VCT	Vapor barrier Vinyl composition tile
					PVMT	Pavement	VERT	Vertical
					PWD	Plywood	VEST	Vestibule
							VIF	Verify In Field
					OT			Vinyl
1		SITA'		AKTEOOK STACE	QTY	Quantity	VTR	Vent thru roof
			<u></u>				۱۸/	\M/oct
<b>\</b>							Ŵ/	With
ARI		—					Ŵ/O	Without
		L.					WB	Wood base
4-0' RAB		JTLE	<u> 4'-6"</u>	U			WC WD	water closet Wood
OPE		õ					WDW	Window
<b>+</b>		0					WG	Wire glass
-3							WH	Wall hung
		J	•				VV IN \\/ \ A	WINOOW Wire mesh
T.							WP	Waterproofing / Work point
							WPT	Work point
ACCE221RI		IKULJ &	IELEPHC	JINE FAKALLEL			WR	Water repellent
OPFRATING	G MFCH	IANISMS -		АСН			WS WISCT	Waterstop Wainscot
							WTW	Wall to wall
FORWARD	<u>) A</u> 22KO	DACH					WWF	Welded wire fabric
		=						









SEE GENERAL NOTES ON DEMOLITION ON THIS DRAWING.

GENERAL NOTE: THE OWNER HAS THE RIGHT OF FIRST REFUSAL FOR ALL EQUIPMENT AND FIXTURES (CABINETS, SHELVING, PLUMBING FIXTURES, ETC.) REMOVED UNDER CONTRACT. IF THE OWNER DOES NOT EXERCISE THIS RIGHT FOR AN INDIVIDUAL PIECE OF EQUIPMENT, THE CONTRACTOR SHALL REMOVE SAID EQUIPMENT FROM THE SITE.

# WALLS

- SCHEDULE FOR NEW FINISH.
- RENOVATION TO MATCH EXISTING ADJACENT FINISH,.

# FLOORS

FINISH SCHEDULE.

# CEILINGS

- 6. NOT USED

# EQUIPMENT

- MATCH EXISTING ADJACENT SURFACE FINISHES.

# MISCELLANEOUS

- ADJACENT FINISHES.
- MORE INFORMATION AND DETAILS. NEW LOCATION AS INDICATED ON A103.

# DEMOLITION / RENOVATION NOTES: $\bigcirc$

1. BRACE AND SHORE UP EXISTING CONSTRUCTION TO REMAIN ABOVE OPENING. SAWCUT AND REMOVE SECTION OF EXISTING PARTITION TO A WIDTH AND HEIGHT, INDICATED ON THE DOOR SCHEDULE, TO PROVIDE A FINISHED FRAMED OPENING. REFER TO DEMOLITION PLAN AND DOOR SCHEDULE FOR DETAILS. FINISH ALL NEWLY EXPOSED SURFACES AND PATCH AND REPAIR ALL VOIDS AND DAMAGE CAUSED BY RENOVATION TO MATCH EXISTING ADJACENT FINISH. 2. CLEAN AND PREPARE EXISTING WALLS TO REMAIN TO RECEIVE A NEW FINISH. SEE ROOM FINISH

BRACE & SHORE-UP EXISTING CONSTRUCTION TO REMAIN ABOVE OPENING. SAWCUT AND REMOVE SECTION OF CMU BLOCK WALL TO NEAREST FULL COURSE ABOVE NEW DOOR OPENING. REFER TO DEMOLITION PLAN & DOOR SCHEDULE FOR DOOR & FRAME SIZE DETAILS. FINISH ALL NEWLY EXPOSED SURFACES AND PATCH AND REPAIR ALL VOIDS AND DAMAGE CAUSED BY

4. REMOVE THE EXISTING WALL BASE. REMOVE FLOOR FINISH DOWN TO CONCRETE SLAB, INCLUDING ALL ADHESIVES. CLEAN, PREPARE & LEVEL EXISTING FLOOR SLAB WITH SELF-LEVELING UNDERLAYMENT (COMPATIBLE WITH NEW FLOOR FINISHES) OVER ENTIRE SURFACE OF EXISTING FLOOR TO MAKE FLOOR LEVEL AND FLUSH. INSTALL NEW FLOOR FINISH AND BASE. SEE ROOM

REMOVE THE EXISTING ACOUSTICAL CEILING BOARDS AND SUSPENSION GRID IN ITS ENTIRETY. REFER TO PLUMBING/HVAC/ELECTRICAL DRAWINGS FOR ADDITIONAL WORK REQUIRED. ALL PLUMBING/HVAC/ ELECTRICAL WORK, INCLUDING REMOVAL AND RE-INSTALLATION OF CEILING SYSTEM, DEMOLITION, PATCHING AND REPAIR, BY RESPECTIVE TRADE CONTR.

REMOVE EXISTING CASEWORK AND COUNTERTOP IN ITS ENTIRETY. SEE GENERAL NOTE. PATCH, PLUG AND FILL ANY DAMAGE IN ADJACENT WALLS, FLOOR, ETC. TO RESTORE TO A UNIFORM, FLUSH, CONTINUOUS SURFACE. FINISH ALL NEWLY EXPOSED SURFACES AND PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL TO MATCH EXISTING ADJACENT FINISHES.

8. REMOVE EXISTING DRY MARKERBOARDS, EXHIBITION BOARDS AND TACK STRIPS IN THEIR ENTIRETY INCLUDING MECHANICAL FASTENERS. PATCH, PLUG, FILL AND REFINISH ALL OPENINGS LEFT IN THE WALL AFTER REMOVAL, INCLUDING THOSE FROM PREVIOUSLY REMOVED DRY MARKERBOARDS, EXHIBITION BOARDS AND TACK STRIPS. RESTORE TO A UNIFORM, FLUSH, CONTINUOUS SURFACE TO

9. EXISTING INTERACTIVE SMARTBOARD TO BE CAREFULLY REMOVED FROM WALL FOR REUSE. STORE SMARTBOARD ONSITE IN SAFE AND SECURE LOCATION DURING CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION RE-INSTALL IN SAME LOCATION.

10. REMOVE EXISTING DOOR & FRAME AND ALL ASSOCIATED HARDWARE IN ITS ENTIRETY. TOOTH IN NEW CMU BLOCK SIZE TO MATCH EXISTING & PAINT BLOCK TO MATCH ADJACENT FINISHES. PATCH & REPAIR ALL VOID/DAMAGES CAUSED BY DEMOLITION/RENOVATION TO MATCH EXISTING

11. REMOVE EXISTING SIGNAGE IN ITS ENTIRETY INCLUDING MECHANICAL FASTENERS. PATCH, PLUG, FILL AND REFINISH ALL OPENINGS LEFT IN THE WALL AFTER REMOVAL. RESTORE TO A UNIFORM, FLUSH, CONTINUOUS SURFACE TO MATCH EXISTING ADJACENT SURFACE FINISHES. 12. EXISTING ELECTRICAL PANELS AND TRANSFORMER TO REMAIN. SEE ELECTRICAL DRAWING FOR

13. REMOVE EXISTING FIRE EXTINGUISHER AND MOUNTING BRACKETS, SALVAGE FOR RESUE. INSTALL AT

# GENERAL NOTES ON DEMOLITION:

- A. ALL CONTRACTORS ARE ADVISED TO VISIT THE SITE AND VERIFY ALL AREAS AND CONDITIONS PRIOR TO SUBMITTING THEIR BIDS. THE CONTRACTOR MUST NOTIFY THE ARCHITECT OF ANY DISCREPANCIES AND/OR OMISSIONS IN WRITING AT LEAST SEVEN DAYS PRIOR TO THE RECEIPT OF BIDS. FAILURE TO SO NOTIFY THE ARCHITECT INDICATES THAT ANY ADDITIONAL COSTS ASSOCIATED WITH THE DISCREPANCIES AND / OR OMISSIONS ARE INCLUDED IN THE CONTRACTOR'S BID AND THAT NO CHANGE TO THE CONTRACT AMOUNT WILL BE MADE AFTER THE RECEIPT OF BIDS OR THE AWARD OF CONTRACTS.
- ALL PLUMBING, MECHANICAL OR ELECTRICAL DISCONNECTS SHALL BE MADE BY THE RESPECTIVE TRADE SUBCONTRACTOR. ALL EQUIPMENT, DEVICES, FIXTURES, ETC. SHALL BE REMOVED FROM THE SITE BY THE RESPECTIVE SUBCONTRACTOR. NOTE: THE EXISTING FIRE ALARM SYSTEM SHALL NOT BE DIMINISHED NOR SHALL EXISTING FIRE ALARM DEVICES BE REMOVED UNTIL NEW DEVICES ARE READY FOR SWITCHOVER.
- C. UNLESS NOTED OTHERWISE ALL DEMOLITION MATERIAL SHALL BE REMOVED OFF SITE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- D. THERE ARE SOME SPECIFIC ITEMS DESIGNATED BY THE ARCHITECT FOR SALVAGE. THESE ITEMS ARE INTENDED FOR REUSE IN THE NEW CONSTRUCTION. THE CONTRACTOR MUST TAKE CARE IN THE REMOVAL AND STORAGE OF THESE ITEMS UNTIL THEY ARE NEEDED IN THE NEW CONSTRUCTION.
- E. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROTECT PORTIONS OF THE EXISTING CONSTRUCTION WHICH ARE ADJACENT TO AREAS TO BE DEMOLISHED. MAKE ALL CUTS AS NEATLY AS POSSIBLE. REFER TO FLOOR PLAN DRAWINGS FOR FINISHING OF THESE AREAS.
- F. IF NOT OTHERWISE NOTED OR DETAILED, ALL SURFACES LEFT ROUGH OR UNFINISHED BY DEMOLITION AND WHICH ARE EXPOSED TO VIEW, SHALL BE PATCHED TO MATCH ADJACENT SURFACES AND FINISHED TO PROVIDE A UNIFORM APPEARANCE WITH REGARD TO SIZE, SHAPE, COLOR, TEXTURE AND MATERIAL.
- G. THE CONTRACTOR SHALL PROVIDE A PHYSICAL BARRIER TO CONTAIN DUST AND DIRT AROUND THE DEMOLITION AREA AND SHALL MAKE EVERY EFFORT TO KEEP THE DEMOLITION SITE AND SURROUNDING AREAS AS CLEAN AS POSSIBLE. ALL TEMPORARY PARTITIONS SHALL BE 1 HOUR RATED CONSTRUCTION AND INCLUDE A DOOR.
- H. NO DEMOLITION SHALL BEGIN UNTIL PROPER PROTECTION IS IN PLACE AND APPROVED BY ARCHITECT & OWNER TO ENSURE THE SAFETY OF THE PUBLIC, THE BUILDING OCCUPANTS, CONSTRUCTION WORKERS AND TO CONTAIN DUST AND DIRT WITHIN THE AREA OF DEMOLITION.
- I. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS REGARDING THE REMOVAL AND DISPOSAL OF ALL MATERIALS & EQUIPMENT.
- J. THE CONTRACTOR SHALL PROVIDE PROTECTION AGAINST INCLEMENT WEATHER FOR THE EXISTING BUILDING DURING THE INTERIM PERIOD BETWEEN DEMOLITION AND THE COMPLETION OF NEW CONSTRUCTION.
- K. THE CONTRACTORS SHALL TAKE INTO ACCOUNT THEIR METHODS OF CONSTRUCTION FOR THE NEW WORK AND INCLUDE IN THEIR BID THE COST OF ADDITIONAL DEMOLITION WORK NECESSARY TO FACILITATE THE CONSTRUCTION. THIS WORK INCLUDES, BUT IS NOT LIMITED TO THE PARTIAL DEMOLITION OF WALLS AT THE POINTS WHERE NEW STEEL CONNECTS TO EXISTING BEAMS OR COLUMNS, THE AREA AROUND JOINTS BETWEEN NEW AND EXISTING CONSTRUCTION IN WALLS, FLOORS AND CEILINGS, AREAS OF SIDEWALK AND PAVING, ETC. MUCH OF THIS WORK IS INDICATED IN SECTIONS AND DETAILS RELATING TO THE NEW CONSTRUCTION.
- L. THE DEMOLITION WORK SHOWN ON THIS PLAN IS INTENDED TO BE A GENERAL OVERVIEW OF MAJOR DEMOLITION WORK REQUIRED. IT IS NOT A COMPLETE AND EXCLUSIVE REPRESENTATION OF ALL DEMOLITION WORK NEEDED FOR EXECUTION OF THE PROJECT. WHEN PREPARING THEIR BIDS, CONTRACTORS MUST REFER TO THE FULL SET OF CONSTRUCTION DOCUMENTS FOR VARIOUS MISCELLANEOUS ITEMS WHICH MUST BE REMOVED AND/OR RELOCATED AS PART OF THE WORK.
- M. ALL PRIME CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN CUTTING AND PATCHING SEE SPECIFICATION.
- N. THE CONTRACTOR SHALL INSPECT ALL EXISTING ROOF DRAIN PIPING AND CONNECTIONS IN THE WORK AREA TO DETERMINE THAT PROPER "LEAK-PROOF" CONNECTIONS EXIST. IF ANY LEAKS EXIST (IE. DAMAGED PIPES, INSULATION, CLOGS, ETC.), THEN THE CONTRACTOR SHALL CORRECT ANY AND ALL DEFICIENCIES THAT MAY EXIST.
- O. IN ROOMS WHERE EXISTING FLOOR FINISH AND BASE ARE INDICATED TO BE REMOVED, IF ASBESTOS TILE IS ENCOUNTERED, STOP REMOVAL AND NOTIFY OWNER IMMEDIATELY. ASBESTOS TILE SHALL BE REMOVED DOWN TO THE EXISTING CONCRETE SLAB AND THE SURFACE PREPARED FOR NEW FINISH BY OTHERS PRIOR TO CONTINUING WITH RENOVATION WORK. AFTER ASBESTOS ABATEMENT, THE GENERAL CONTRACTOR SHALL CLEAN SLAB TO REMOVE ADHESIVES AND INFILL WITH SELF-DRYING FINISHING UNDERLAYMENT (COMPATIBLE WITH NEW FLOOR FINISHES) OVER ENTIRE SURFACE OF EXISTING FLOOR TO MAKE FLOOR LEVEL AND FLUSH. APPLY NEW FINISH AND BASE - SEE ROOM FINISH SCHEDULE.
- P. IF DURING THE DEMOLITION, RENOVATION AND ALTERATION WORK IN THE EXISTING BUILDING, STRUCTURAL ELEMENTS ARE UNCOVERED AND ARE FOUND TO BE UNSOUND OR OTHERWISE STRUCTURALLY DEFICIENT, THE GENERAL CONTRACTOR SHALL IMMEDIATELY ADVISE THE ARCHITECT AND THE STRUCTURAL ENGINEER OF RECORD OF THE CONDITION SO THAT APPROPRIATE MEASURES TO REINFORCE, SUPPORT OR REPLACE THE UNSOUND ELEMENTS CAN BE DESIGNED AND IMPLEMENTED.
- Q. CONTRACTOR SHALL MAINTAIN ALL EXISTING FIRE-RATED CONSTRUCTION ASSEMBLIES, INCLUDING PROTECTED OPENINGS (DOORS, ETC.) DURING DEMOLITION AND ALTERATION WORK IN ORDER TO MAINTAIN EXISTING LIFE SAFETY AND EGRESS. CONTRACTOR IS RESPONSIBLE FOR ALL SEQUENCING AND SHALL NOT REMOVE ANY EXISTING FIRE-RATED ASSEMBLIES UNTIL NEW WORK IS READY FOR INSTALLATION. CONTRACTOR SHALL NOT REMOVE ANY EXISTING FIRE-RATED ASSEMBLIES BEYOND THAT WHICH CAN BE REPLACED IN A SINGLE DAY.







	EXISTING WALLS, VERIFY IN FIELD
	CMU PARTITION
	GYPSUM BOARD PARTITION - MTL. STUDS (SEE PLAN FOR DEPTH) @ 16" O.C. W/ SOUND ATTENUATION BLANKET AND 5/8" GYPSUM BOARD EACH SIDE (TYP. U.N.O.)
FE EX FE	NEW FIRE EXTINGUISHER EXISTING FIRE EXTINGUISHER TO REMAIN
EJ CJ	EXPANSION JOINT - SEE DETAIL 4 / G003 LC INTERIOR CONTROL JOINT - SEE DETAILS 1 & 2 / G003 LC
DMB	DRYMARKER BOARD - SEE SPECIFICATIONS AND DETAIL ON A502 LC
EB	EXHIBITION BOARD - SEE SPECIFICATIONS AND DETAIL ON A502 LC
	NEW / EXISTING 1-HOUR RATED FIRE WALL

1	PROVIDE NEW FLOOR FINISH ON SELF-LEVELING UN
2	IN FILL EXISTING DOOR OPENING WITH CMU TO MA IN NEW BLOCK AND MATCH EXISTING COURSING.
3	RE-INSTALL EXISTING INTERACTIVE SMART BOARD.
4	RELOCATE EXISTING FIRE EXTINGUISHER TO APPROX HOOK TO GYPSUM WALL BOARD, PROVIDE BLOCK PATCH AND REPAIR ADJACENT FINISHES TO MATCH
5	PROVIDE ANGULAR WALL BRACING TO BOTTOM O
6	APPLY SECURITY WINDOW FILM TO EXISTING ALUMI





# REFLECTED CEILING PLAN LEGEND



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## ACB-1 -2'x4' ACOUSTICAL CEILING BOARD -SEE FINISH SCHEDULE FOR LOCATION

ACB-2 - 2'x2' ACOUSTICAL CEILING BOARD -SEE FINISH SCHEDULE FOR LOCATION

PAINTED GYPSUM BOARD SOFFIT / CEMENT PLASTER IN SHOWERS

SUPPLY / RETURN / EXHAUST DIFFUSER (SEE HVAC DRAWINGS)

- LIGHTS (SEE ELECTRICAL DRAWINGS)

# NOTES:

- 1. SEE HVAC, PLUMBING AND ELECTRICAL DRAWINGS FOR TYPE, SIZE AND ADDITIONAL INFORMATION.
- 2. ALL DIFFUSERS, RETURNS, AND LIGHTS TO BE CENTERED IN THE GWB OR ACB CEILING UNLESS NOTED OTHERWISE
- GENERAL, HVAC, PLUMBING AND ELECTRICAL CONTRACTORS TO COORDINATE LOCATION OF DIFFUSERS AND LIGHTS.
- 4. SEE ROOM FINISH SCHEDULE FOR CEILING HEIGHTS
- 5. A.F.F. = ABOVE FINISH FLOOR (MAIN DATUM ELEVATION)

# KEY NOTES:

- 1 INSTALL NEW ACOUSTICAL CEILING PANELS AND SUSPENSION GRID. REFER TO MECHANICAL/ELECTRICAL/PLUMBING DRAWINGS FOR ADDITIONAL WORK REQUIRED.
- 2 EXISTING CEILING GRID TO REMAIN, EXISTING ACOUSTICAL CEILING BOARD TO REMAIN. REPLACE DAMAGED, STAINED, DIRTY, ETC W/ SALVAGED EXISTING ACB.







ITEM NO.	MANUF	CAT. NO.	DESCRIPTION	WIDTH	DEPTH	HEIGHT	REMARKS
1	TMI SYSTEMS	T2588	TALL WARDROBE	42"	24"	84"	DBL DOOR. L-CLOSET ROD, 1 FIXED SHELF. R-2 ADJUSTABLE SHELVES, 1 FIXED SHELF, 2 DRAWERS
2	TMI SYSTEMS	W2052	WALL CABINET	30"	14"	30''	DBL DOOR, 1 ADJUSTABLE SHELF
3	TMI SYSTEMS	D1122	BASE CABINET	30''	24''	35"	DBL DOOR, 1 ADJUSTABLE SHELF, 6" FULL W DRAWER, COUNTERTOP HT. 36" AFF
4	TMI SYSTEMS	К2268	TALL CABINET	42"	24''	84"	DBL DOOR, 6 ADJUSTABLE SHELVES + DBL DOOR, 2 ADJUSTABLE SHELVES, LOWER HT. 34"
5	TMI SYSTEMS	K1078	TALL CABINET	36"	24''	84"	3 ADJUSTABLE SHELVES, 1 FIXED SHELF, DBL DOOR W/ 1 ADJUSTABLE SHELF BELOW HT. 34"

# GENERAL CASEWORK NOTES:

- 1. CATALOG NUMBERS REFER TO MOST CURRENT TMI SYSTEMS CATALOG, UNLESS OTHERWISE NOTED. FOR REFERENCE ONLY. 2. ALL CASEWORK DOORS AND DRAWERS TO HAVE LOCKS KEYED ALIKE PER
- ROOM AND MASTER KEYED. 3. ALL TOPS SHALL BE 1" THICK SOLID SURFACE (UNLESS NOTED OTHERWISE).
- LAMINATE TOPS ARE NOT ACCEPTABLE AND WILL BE REJECTED. 4. ALL BACKSPLASHES SHALL BE 3/4" SOLID SURFACE (UNLESS NOTED
- OTHERWISE). 5. ALL FURNITURE AND EQUIPMENT SHOWN DOTTED AND/OR INDICATED AS
- (N.I.C.) IS NOT IN CONTRACT. 6. ALL DUPLEX OUTLETS SHALL BE G.F.C.I. UNLESS NOTED OTHERWISE.
- 7. ALL CONTRACTORS TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT IN WRITTEN FORM OF ANY
- DISCREPANCIES. 8. PROVIDE ALL FILLERS AS REQUIRED. FILLERS AT BASE CABINETS SHALL BE AT FRONT OF CABINET AND COUNTERTOP SHALL BE CONTINUOUS OVER FILLER FILLERS; AT TALL CABINETS SHALL BE AT FRONT AND TOP OF CABINET. FILLERS AT WALL CASES SHALL BE AT FRONT, TOP AND BOTTOM OF CABINET. FINISH
- TO MATCH CASEWORK. 9. ALL PRINTERS AND COMPUTERS ARE N.I.C. (TYPICAL)
- 10. RUBBER BASE ON ALL CASEWORK BY G.C. (TYPICAL) 11. ALL SCHEDULED EQUIPMENT MANUFACTURERS ARE "BASIS OF DESIGN", OR
- APPROVED EQUAL. 12. ALL CASEWORK FINISHES TO BE P-LAM, COLOR SELECTED BY ARCHITECT/OWNER

# GENERAL CASEWORK NOTES:

- 1. THE GENERAL PRIME CONTRACTOR SHALL TURN OVER TO THE ELECTRICAL PRIME CONTRACTOR IN A PACKAGE, ALL ELECTRICAL DEVICES, BACKBOXES, FACEPLATES, NIPPLES, LOCKNUTS AND ACCESSORIES, ETC., FOR INSTALLATION AND
- FINAL CONNECTION. 2. THE GENERAL PRIME CONTRACTOR SHALL PROVIDE AN ITEMIZED LIST AND A DESIGNATED SITE LOCATION FOR THE TRANSFER OF THE MATERIALS REFERENCED IN NOTE 1 TO THE ELECTRICAL PRIME CONTRACTOR. THE LIST SHALL HAVE A DESCRIPTION OF THE ITEMS AND QUANTITY ALONG WITH A SIGN-OFF LINE FOR THE ELECTRICAL PRIME CONTRACTOR. A COPY OF THE SIGNED LIST IS TO BE SUBMITTED TO THE ARCHITECT / OWNER PRIOR TO BILLING FOR THIS EQUIPMENT.

# NOTE:

ALL FURNITURE AND EQUIPMENT WITHOUT THE SYMBOL  $\langle$ OR MARKED (N.I.C.) IS NOT IN CONTRACT UNLESS NOTED OTHERWISE. SEE EQUIPMENT SCHEDULE FOR EQUIPMENT MARKED WITH THE SYMBOL

## NOTE:

- SEE 1/8" PLAN FOR LOCATION & ROOM NUMBERS.
- SEE 1/8" PLAN TO DETERMINE WHICH ROOMS ARE OPPOSITE HAND AND/OR SIMILAR TO ROOM SHOWN.

PROVIDE FURNITURE AND CASEWORK SIMILAR TO THE ROOM SHOWN FOR ALL ROOMS OF THE SAME TYPE.

EQUIPMENT CONTRACT NOTE:

THE EQUIPMENT SUB-CONTRACTOR(S) SHALL BE (A) SUBCONTRACTOR(S) OF THE GENERAL CONSTRUCTION WORK CONTRACTOR.

## NOTE:

PROVIDE A MINIMUM 18" BARRIER-FREE MANEUVERING CLEARANCE AT THE PULL SIDE OF ALL DOORS ADJACENT TO CABINETS, SHELVING, CORRIDOR LOCKERS, ETC.

PROVIDE A MINIMUM 12" BARRIER-FREE MANEUVERING CLEARANCE AT THE PUSH SIDE OF ALL DOORS ADJACENT TO CABINETS, SHELVING, CORRIDOR LOCKERS, ETC.











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- 1 DOOR STOP 403; 404; 441CU; OVERHEAD PER SPEC US26D RO



TYP FRAME PROFILE cale: 3"=1'-0'



FINALIZED BY THE ARCHITECT AND OWNER DURING THE SHOP DRAWING PROCESS.























- EXG. FLOOR FINISH

S2 Scale 1 1/2" = 1' - 0"



# GENERAL FINISH NOTES:

- A. SEE SPECIFICATION FOR ADDITIONAL INFORMATION ON MATERIALS / MANUFACTURER / PERFORMANCE AND WARRANTY INFORMATION .
- WITHIN THE EXISTING BUILDING, AT ALL AREAS OF NEW
- CONSTRUCTION ADJACENT TO EXISTING, NEW CONSTRUCTION SHALL BE FINISHED TO MATCH EXISTING ADJACENT CONSTRUCTION INCLUDING BRICK, TILE, PLASTER BASE, ETC.
- C. AT ALL AREA OF EXISTING SURFACES BEING PAINTED, THE GENERAL CONSTRUCTION WORK CONTRACTOR SHALL REMOVE PRIOR TO PAINTING AND RE-INSTALL AFTER PAINTING ALL ELECTRICAL DEVICE (SWITCH , OUTLETS, ETC) COVER PLATES
- MATERIALS LISTED ON THE FINISH SCHEDULE REFER TO THE MAJORITY OF WALLS, FLOOR AND CEILING OF ROOMS SCHEDULED, REFER TO PLANS, DETAILS, INTERIOR ELEVATION, CEILING PLANS, AND NOTES FOR THOSE MATERIALS NOT INDICATED ON THE SCHEDULE BUT ARE STILL REQUIRED IN THE ROOM.
- IN ALL SPACES (EXISTING AND RE-CONFIGURED) WHERE EXISTING FLOORING SHALL REMAIN, THE GENERAL CONSTRUCTION WORK CONTRACTOR (GC) SHALL PROVIDE, INSTALLED MAINTAIN TEMPORARY PROTECTION OF EXISTING FLOORING FOR THE FULL DURATION OF WORK IN THAT LOCATION, TEMPORARY PROTECTION SHALL CONSIST OF SHEETS OF 1/2 " PLYWOOD TIGHTLY BUTTED TOGETHER, (GC) SHALL REMOVE ALL TEMPORARY PROTECTION BY THE DATE OF SUBSTANTIAL COMPLETION.

# ABBREVIATIONS

ERF

EXP

EXP

GEP

GP

GU

LVT

M/E

RUB

RRT-

TPG

VCT

VSF

WD

SRT-1

RUB-V

QT

EXP-P

- ALUMINUM ALUM - ACRYLIC ACOUSTIC CEILING BOARD (2' x 4') AACB ACB-1 - ACOUSTIC CEILING BOARD TYPE 1 (2' x 4') ACB-2 - ACOUSTIC CEILING BOARD TYPE 2 (2' x 2') CEM - CARPET ENTRY MAT CEP - CONCRETE MASONRY UNIT - EPOXY PAINTED
- СР - CONCRETE MASONRY UNIT - PAINTED
- CPT-T - CARPET TILE CT - CERAMIC TILE
- CONC P - CONCRETE (SEALED) - PAINTED
- CONC S - CONCRETE (SEALED) - EPOXY RESINOUS FLOORING
- EXISTING CONSTRUCTION PAINTED ETR- P ETR-EP
  - EXISTING CONSTRUCTION EPOXY PAINTED EXPOSED CONSTRUCTION
  - EXPOSED CONSTRUCTION PAINTED EXPOSED CONSTRUCTION - PAINTED
  - GYPSUM BOARD- EPOXY PAINTED
  - GYPSUM BOARD PAINTED
  - GYPSUM BOARD UNFINISHED - LUXURY VINYL TILE
  - MATCH EXISTING QT
  - QUARRY TILE - RUBBER BASE
  - RADIAL RUBBER TILE
  - RUBBER BASE VENTED - TEMPERED PLATE GLASS
  - VINYL COMPOSITION TILE
  - VINYL SHEET FLOORING - WOOD
- SWF-1
  - TEMPERED PLATE GLASS WITH SECURITY WINDOW FILM - SPORTS FLOORING



ALL LETTERS, NUMBERS, SYMBOLS, AND PICTOGRAPHS SHALL BE RAISED MINIMUM 1/32" FROM SIGN FACE AND SHALL MEET ALL REQUIREMENTS FOR COLOR CONTRAST RATIO. AT SIGN TYPES 7-18 AND 29-30, CONTRACTOR IS ADVISED HEREBY THAT FINAL SIGN VERBIAGE AND LAYOUT, INCLUDING THE ADDITION OR DELETION OF PICTOGRAMS, WILL BE 3. SIGNS ADHERED TO GLASS SHALL INCLUDE AN ADDITIONAL BLANK SIGN OF MATCHING SIZE AND COLOR ADHERED BEHIND THE SIGN ON THE OPPOSITE SIDE OF THE GLASS.





NEW OR REMOVAL WORK (REFER TO PLAN) EXISTING SUPPLY AIR UP SUPPLY AIR DOWN EXHAUST AIR UP EXHAUST AIR DOWN RETURN AIR UP RETURN AIR DOWN DUCT SIZE (FIRST FIGURE-SIDE SHOWN) DIRECTION OF FLOW-SUPPLY DIRECTION OF FLOW-EXHAUST OR RETURN AIR ACOUSTICAL LINING DUCT INCLINED RISE (RESPECT TO AIR) DUCT INCLINED DROP (RESPECT TO AIR) BREAK IN RECTANGULAR DUCT BREAK IN ROUND DUCT CONTROL DAMPER MOTORIZED CONTROL DAMPER BALANCING DAMPER BACKDRAFT DAMPER SMOKE DAMPER FIRE DAMPER SUPPLY DIFFUSER EXHAUST/RETURN **REGISTER OR GRILLE** 45° BOOT CONNECTION



→ HPS нрс — → MPS **с** МРС — LPS — → LPC — PC \_\_\_\_\_ CHWS — **∠** — − CHWR - -∠\_\_\_\_ cws \_\_\_\_ **≻**−− CWR−нws — **∠** — — HWR — -CD \_\_\_\_\_ **∠**\_\_\_\_\_ RD \_\_\_\_\_ RHG ----→ RL → **∠**\_\_\_\_\_ RS \_\_\_\_\_

90° RADIUS ELBOW (NO VANES)

45° ELBOW (NO VANES)

**BRANCH CONNECTION** ROUND DUCTWORK

FLEXIBLE CONNECTION

AIR FLOW STATION

ACCESS DOOR

SOUND ATTENUATOR

90° ELBOW WITH TURNING VANES

ROUND TO RECTANGULAR TRANSITION

**MECHANICAL ABBREVIATIONS:** 

		ABS	ABSOLUTE	HRU	HEAT RECOVERY UNIT
_1_		ABV	ABOVE	HT	HEIGHT
		AD		HTG	
				HUMID	
	SPLITTER DAMPER			HWC	HOT WATER COIL
		AFMS	AIR FLOW MONITORING STATION	HWR	HOT WATER RETURN
		AHU	AIR HANDLING UNIT	HWS	HOT WATER SUPPLY
•		AMB	AMBIENT	HX	HEAT EXCHANGER
		AP	ACCESS PANEL	HZ	HERTZ
↓ → ↓ ↓	DUCT MOUNTED HUMIDIFIER	APD	AIR PRESSURE DROP	ID	INSIDE DIAMETER
		ARCH	ARCHITECT OR ARCHITECTURAL	IN	INCHES
		ATC		INTL	
		AIM		KW	
~	DUCT COIL			L	
HH		A010 A/C	AUTOMATIC AIR CONDITION(ER)(ING)	LAT	POUNDS
		B	BOILER	LH	LATENT HEAT
		BBD	BOILER BLOW DOWN	LIQ	
2 2	SIDE WALL DIFFUSER, REGISTER OR GRILLE	BC	BOTTOM CONNECTION	LPC	LOW PRESSURE CONDENSATE
<b>  </b>		BDD	BACKDRAFT DAMPER	LPS	LOW PRESSURE STEAM
		BFW	BOILER FEEDWATER	LVG	LEAVING
20° MAX		BFP	BACKFLOW PREVENTER	LWT	LEAVING WATER TEMPERATURE
	TRANSITION	BHP	BRAKE HORSEPOWER	MAX	MAXIMUM
	(DIVERGING FLOW)	BLW	BELOW	MB	MIXING BOX
I		BOD		MBH	THOUSANDS BTU/HR
		BTU	BRITISH THERMAL UNIT	M.C.	
	TRANSITION	C		MCA	
	(CONVERGING FLOW)			MIN	
		CC		MOD	
		CCC	COOLING COIL CONDENSATE	MOP	MAXIMUM OVERCURRENT PROTE
d   þ	VAV CONTROL UNIT	CD	CEILING DIFFUSER	MPC	MEDIUM PRESSURE CONDENSAT
		CFM	CUBIC FEET PER MINUTE	MPS	MEDIUM PRESSURE STEAM
		СН	CHILLER	MU	MAKE-UP WATER
		CHW	CHILLED WATER	MWT	MEAN WATER TEMPERATURE
$\dot{\gamma}$	DUCT TEMPERATURE SENSOR	CHWR	CHILLED WATER RETURN	M/A	MAK-UP AIR
r - T±L - 1		CHWS	CHILLED WATER SUPPLY	N/A	NOT APPLICABLE
		CI	CAST IRON	NC	NOISE CRITERIA
		CLG	CEILING	NEC	NATIONAL ELECTRICAL CODE
	DUCT HUMIDITY SENSOR	CO	CLEANOUT	NFPA	NATIONAL FIRE PROTECTION AS
Н		COND	CONDENSATE	N.I.C.	NOT IN CONTRACT
		CONN	CONNECTION	NTS	NOT TO SCALE
$\frac{1}{2}$ $\langle SD \rangle$ $\frac{1}{2}$	DUCT SMOKE DETECTOR	CONV	CONVECTOR	N/C	NORMALLY CLOSED
		COP	COEFFICIENT OF PERFORMANCE	N/O	NORMALLY OPEN
		CR	CONDENSER RETURN	OBD	OPPOSED BLADE DAMPER
	SLOT DIFFUSER	CS	CONDENSER SUPPLY	OD	OUTSIDE DIAMETER
	RETURN AIR SLOT	СТ	COOLING TOWER	O/A	OUTSIDE AIR
		CU	CONDENSING UNIT	P	PUMP
	VAV CONTROL DIFFUSER	CUH	CABINET UNIT HEATER	PBD	PARALLEL BLADE DAMPER
┯╱┯		CV	CONSTANT VOLUME	PC	
		CW	COLD WATER (DOMESTIC)	P.C.	PLUMBING CONTRACTOR
	DIFFUSER IN DUCT BELOW	D	DRAIN	PD	PRESSURE DROP
		DB		PNEU	
		D.b.		PNL	PANEL
		DC	DUCT COIL	PU3	POSITION
				DDECC	DDECCUDE
		DD	DUAL DUCT	PRESS	
		DD DEG	DUAL DUCT DEGREE	PRESS PRV	PRESSURE PRESSURE RELIEF VALVE
	LOWER DUCT BROKEN	DD DEG DIA	DUAL DUCT DEGREE DIAMETER	PRESS PRV PSI	PRESSURE PRESSURE RELIEF VALVE POUNDS PER SQUARE INCH
	LOWER DUCT BROKEN	DD DEG DIA DIV	DUAL DUCT DEGREE DIAMETER DIVISION	PRESS PRV PSI PSIA PAE	PRESSURE PRESSURE RELIEF VALVE POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABS
	LOWER DUCT BROKEN	DD DEG DIA DIV DN	DUAL DUCT DEGREE DIAMETER DIVISION DOWN	PRESS PRV PSI PSIA RAF PCP	PRESSURE PRESSURE RELIEF VALVE POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABS RETURN AIR FAN PADIANT CEILING PANEL
	LOWER DUCT BROKEN	DD DEG DIA DIV DN DP DPR	DUAL DUCT DEGREE DIAMETER DIVISION DOWN DIFFERENTIAL PRESSURE SENSOR DAMPER	PRESS PRV PSI PSIA RAF RCP RD	PRESSURE PRESSURE RELIEF VALVE POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABS RETURN AIR FAN RADIANT CEILING PANEL BOOE DRAIN
	LOWER DUCT BROKEN THERMOSTAT	DD DEG DIA DIV DN DP DPR DPT	DUAL DUCT DEGREE DIAMETER DIVISION DOWN DIFFERENTIAL PRESSURE SENSOR DAMPER DEW POINT TEMPERATURE	PRESS PRV PSI PSIA RAF RCP RD RE	PRESSURE PRESSURE RELIEF VALVE POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABS RETURN AIR FAN RADIANT CEILING PANEL ROOF DRAIN RELIEF AIR FAN
	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT	DD DEG DIA DIV DN DP DPR DPT DS	DUAL DUCT DEGREE DIAMETER DIVISION DOWN DIFFERENTIAL PRESSURE SENSOR DAMPER DEW POINT TEMPERATURE DUCTLESS SPLIT-SYSTEM	PRESS PRV PSI PSIA RAF RCP RD RF RH	PRESSURE PRESSURE RELIEF VALVE POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABS RETURN AIR FAN RADIANT CEILING PANEL ROOF DRAIN RELIEF AIR FAN RELATIVE HUMIDITY
	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT	DD DEG DIA DIV DN DP DPR DPR DPT DS DTL	DUAL DUCT DEGREE DIAMETER DIVISION DOWN DIFFERENTIAL PRESSURE SENSOR DAMPER DEW POINT TEMPERATURE DUCTLESS SPLIT-SYSTEM DETAIL	PRESS PRV PSI PSIA RAF RCP RD RF RH RH	PRESSURE PRESSURE RELIEF VALVE POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABS RETURN AIR FAN RADIANT CEILING PANEL ROOF DRAIN RELIEF AIR FAN RELATIVE HUMIDITY REFRIGERANT LIQUID
	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HIGH PRESSURE STEAM (100-70 PSI)	DD DEG DIA DIV DN DP DPR DPT DS DTL DTR	DUAL DUCT DEGREE DIAMETER DIVISION DOWN DIFFERENTIAL PRESSURE SENSOR DAMPER DEW POINT TEMPERATURE DUCTLESS SPLIT-SYSTEM DETAIL DUAL TEMPERATURE RETURN	PRESS PRV PSI PSIA RAF RCP RD RF RH RL RL	PRESSURE PRESSURE RELIEF VALVE POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABS RETURN AIR FAN RADIANT CEILING PANEL ROOF DRAIN RELIEF AIR FAN RELIEF AIR FAN RELATIVE HUMIDITY REFRIGERANT LIQUID RATED LOAD AMPS
	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE CONDENSATE	DD DEG DIA DIV DN DP DPR DPR DPT DS DTL DTR DTR	DUAL DUCT DEGREE DIAMETER DIVISION DOWN DIFFERENTIAL PRESSURE SENSOR DAMPER DEW POINT TEMPERATURE DUCTLESS SPLIT-SYSTEM DETAIL DUAL TEMPERATURE RETURN DUAL TEMPERATURE SUPPLY	PRESS PRV PSI PSIA RAF RCP RD RF RH RL RLA RLA RPM	PRESSURE PRESSURE RELIEF VALVE POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABS RETURN AIR FAN RADIANT CEILING PANEL ROOF DRAIN RELIEF AIR FAN RELATIVE HUMIDITY REFRIGERANT LIQUID RATED LOAD AMPS REVOLUTIONS PER MINUTE
T HPS HPC MPS	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE CONDENSATE MEDIUM PRESSURE STEAM (69-16 PSI)	DD DEG DIA DIV DN DP DPR DPT DS DTL DTR DTS DTS DWG.	DUAL DUCT DEGREE DIAMETER DIVISION DOWN DIFFERENTIAL PRESSURE SENSOR DAMPER DEW POINT TEMPERATURE DUCTLESS SPLIT-SYSTEM DETAIL DUAL TEMPERATURE RETURN DUAL TEMPERATURE SUPPLY DRAWING	PRESS PRV PSI PSIA RAF RCP RD RF RH RL RLA RLA RPM RRP	PRESSURE PRESSURE RELIEF VALVE POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABS RETURN AIR FAN RADIANT CEILING PANEL ROOF DRAIN RELIEF AIR FAN RELIEF AIR FAN RELATIVE HUMIDITY REFRIGERANT LIQUID RATED LOAD AMPS REVOLUTIONS PER MINUTE REFRIGERANT RELIEF PIPING
T HPS HPC MPS MPC	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE CONDENSATE MEDIUM PRESSURE STEAM (69-16 PSI)	DD DEG DIA DIV DN DP DPR DPT DS DTL DTR DTR DTS DWG. DX	DUAL DUCT DEGREE DIAMETER DIVISION DOWN DIFFERENTIAL PRESSURE SENSOR DAMPER DEW POINT TEMPERATURE SENSOR DUCTLESS SPLIT-SYSTEM DETAIL DUAL TEMPERATURE RETURN DUAL TEMPERATURE RETURN DUAL TEMPERATURE SUPPLY DRAWING DIRECT EXPANSION	PRESS PRV PSI PSIA RAF RCP RD RF RH RL RLA RLA RPM RRP RS	PRESSURE PRESSURE RELIEF VALVE POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABS RETURN AIR FAN RADIANT CEILING PANEL ROOF DRAIN RELIEF AIR FAN RELATIVE HUMIDITY REFRIGERANT LIQUID RATED LOAD AMPS REVOLUTIONS PER MINUTE REFRIGERANT RELIEF PIPING REFRIGERANT SUCTION
T HPS HPC MPC MPC	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE CONDENSATE MEDIUM PRESSURE STEAM (69-16 PSI) MEDIUM PRESSURE CONDENSATE	DD DEG DIA DIV DN DP DPR DPT DS DTL DTS DTL DTS DWG. DX (E)	DUAL DUCTDEGREEDIAMETERDIVISIONDOWNDIFFERENTIAL PRESSURE SENSORDAMPERDEW POINT TEMPERATUREDUCTLESS SPLIT-SYSTEMDETAILDUAL TEMPERATURE RETURNDUAL TEMPERATURE SUPPLYDRAWINGDIRECT EXPANSIONEXISTING	PRESS PRV PSI PSIA RAF RCP RD RF RH RL RLA RLA RPM RRP RS RTU	PRESSURE PRESSURE RELIEF VALVE POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABS RETURN AIR FAN RADIANT CEILING PANEL ROOF DRAIN RELIEF AIR FAN RELATIVE HUMIDITY REFRIGERANT LIQUID RATED LOAD AMPS REVOLUTIONS PER MINUTE REFRIGERANT RELIEF PIPING REFRIGERANT RELIEF PIPING REFRIGERANT SUCTION ROOFTOP UNIT
T HPS HPC MPS MPC LPS LPS	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE CONDENSATE MEDIUM PRESSURE STEAM (69-16 PSI) MEDIUM PRESSURE CONDENSATE LOW PRESSURE STEAM (0-15 PSI)	DD DEG DIA DIV DN DP DPR DPT DS DTL DTR DTS DTS DWG. DX (E) EAT	DUAL DUCTDEGREEDIAMETERDIVISIONDOWNDIFFERENTIAL PRESSURE SENSORDAMPERDEW POINT TEMPERATUREDUCTLESS SPLIT-SYSTEMDETAILDUAL TEMPERATURE RETURNDUAL TEMPERATURE SUPPLYDRAWINGDIRECT EXPANSIONEXISTINGENTERING AIR TEMPERATURE	PRESS PRV PSI PSIA RAF RCP RD RF RH RL RLA RLA RLA RPM RRP RS RTU R/A	<ul> <li>PRESSURE</li> <li>PRESSURE RELIEF VALVE</li> <li>POUNDS PER SQUARE INCH</li> <li>POUNDS PER SQUARE INCH ABS</li> <li>RETURN AIR FAN</li> <li>RADIANT CEILING PANEL</li> <li>ROOF DRAIN</li> <li>RELIEF AIR FAN</li> <li>RELATIVE HUMIDITY</li> <li>REFRIGERANT LIQUID</li> <li>RATED LOAD AMPS</li> <li>REVOLUTIONS PER MINUTE</li> <li>REFRIGERANT RELIEF PIPING</li> <li>REFRIGERANT SUCTION</li> <li>ROOFTOP UNIT</li> <li>RETURN AIR</li> </ul>
T (T) (H) HPS HPC HPC MPS MPC LPS LPC LPC	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE CONDENSATE MEDIUM PRESSURE STEAM (69-16 PSI) MEDIUM PRESSURE STEAM (0-15 PSI) LOW PRESSURE STEAM (0-15 PSI)	DD DEG DIA DIV DN DP DPR DPT DS DTL DTR DTS DWG. DX (E) EAT E.C.	DUAL DUCTDEGREEDIAMETERDIVISIONDOWNDIFFERENTIAL PRESSURE SENSORDAMPERDEW POINT TEMPERATUREDUCTLESS SPLIT-SYSTEMDETAILDUAL TEMPERATURE RETURNDUAL TEMPERATURE SUPPLYDRAWINGDIRECT EXPANSIONEXISTINGENTERING AIR TEMPERATUREELECTRICAL CONTRACTOR	PRESS PRV PSI PSIA RAF RCP RD RF RH RL RLA RLA RPM RRP RS RTU RS RTU R/A SAN	PRESSUREPRESSURE RELIEF VALVEPOUNDS PER SQUARE INCHPOUNDS PER SQUARE INCH ABSRETURN AIR FANRADIANT CEILING PANELROOF DRAINRELIEF AIR FANRELATIVE HUMIDITYREFRIGERANT LIQUIDRATED LOAD AMPSREVOLUTIONS PER MINUTEREFRIGERANT RELIEF PIPINGREFRIGERANT SUCTIONROOFTOP UNITRETURN AIRSANITARY
T (T) (H) HPS HPC MPS MPC LPS LPC T LPC T	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE CONDENSATE MEDIUM PRESSURE STEAM (69-16 PSI) MEDIUM PRESSURE STEAM (69-16 PSI) LOW PRESSURE STEAM (0-15 PSI)	DD DEG DIA DIV DN DP DPR DPT DS DTL DTS DTL DTS DWG. DX (E) EAT E.C. EDH	DUAL DUCTDEGREEDIAMETERDIVISIONDOWNDIFFERENTIAL PRESSURE SENSORDAMPERDEW POINT TEMPERATUREDUCTLESS SPLIT-SYSTEMDETAILDUAL TEMPERATURE RETURNDUAL TEMPERATURE SUPPLYDRAWINGDIRECT EXPANSIONEXISTINGENTERING AIR TEMPERATUREELECTRICAL CONTRACTORELECTRIC DUCT HEATER	PRESS PRV PSI PSIA RAF RCP RD RF RH RL RLA RLA RPM RRP RS RTU RS RTU R/A SAN SD	<ul> <li>PRESSURE</li> <li>PRESSURE RELIEF VALVE</li> <li>POUNDS PER SQUARE INCH</li> <li>POUNDS PER SQUARE INCH ABS</li> <li>RETURN AIR FAN</li> <li>RADIANT CEILING PANEL</li> <li>ROOF DRAIN</li> <li>RELIEF AIR FAN</li> <li>RELATIVE HUMIDITY</li> <li>REFRIGERANT LIQUID</li> <li>RATED LOAD AMPS</li> <li>REVOLUTIONS PER MINUTE</li> <li>REFRIGERANT RELIEF PIPING</li> <li>REFRIGERANT SUCTION</li> <li>ROOFTOP UNIT</li> <li>RETURN AIR</li> <li>SANITARY</li> <li>SMOKE DETECTOR</li> </ul>
T (T) (H) HPS HPC HPC MPS MPC LPS LPC PC PC (H)	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE CONDENSATE MEDIUM PRESSURE STEAM (69-16 PSI) MEDIUM PRESSURE STEAM (0-15 PSI) LOW PRESSURE STEAM (0-15 PSI) LOW PRESSURE CONDENSATE	DD DEG DIA DIV DN DP DPR DPT DS DTL DTR DTS DWG. DX (E) EAT E.C. EDH EER	DUAL DUCTDEGREEDIAMETERDIVISIONDOWNDIFFERENTIAL PRESSURE SENSORDAMPERDEW POINT TEMPERATUREDUCTLESS SPLIT-SYSTEMDETAILDUAL TEMPERATURE RETURNDUAL TEMPERATURE SUPPLYDRAWINGDIRECT EXPANSIONEXISTINGENTERING AIR TEMPERATUREELECTRICAL CONTRACTORELECTRIC DUCT HEATERENERGY EFFICIENCY RATIO	PRESS PRV PSI PSIA RAF RCP RD RF RH RL RLA RLA RPM RRP RS RTU RS RTU R/A SAN SD SENS	PRESSURE PRESSURE RELIEF VALVE POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABS RETURN AIR FAN RADIANT CEILING PANEL ROOF DRAIN RELIEF AIR FAN RELATIVE HUMIDITY REFRIGERANT LIQUID RATED LOAD AMPS REVOLUTIONS PER MINUTE REFRIGERANT RELIEF PIPING REFRIGERANT RELIEF PIPING REFRIGERANT SUCTION ROOFTOP UNIT RETURN AIR SANITARY SMOKE DETECTOR SENSIBLE
Image: Constraint of the second se	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE CONDENSATE MEDIUM PRESSURE STEAM (69-16 PSI) MEDIUM PRESSURE STEAM (69-16 PSI) LOW PRESSURE STEAM (0-15 PSI) LOW PRESSURE STEAM (0-15 PSI) LOW PRESSURE CONDENSATE PUMPED CONDENSATE	DD DEG DIA DIV DN DP DPR DPT DS DTL DTS DTL DTS DWG. DX (E) EAT E.C. EDH EER EF	DUAL DUCTDEGREEDIAMETERDIVISIONDOWNDOWNDIFFERENTIAL PRESSURE SENSORDAMPERDEW POINT TEMPERATUREDUCTLESS SPLIT-SYSTEMDETAILDUAL TEMPERATURE RETURNDUAL TEMPERATURE SUPPLYDRAWINGDIRECT EXPANSIONEXISTINGENTERING AIR TEMPERATUREELECTRICAL CONTRACTORELECTRIC DUCT HEATERENERGY EFFICIENCY RATIOEXHAUST FAN	PRESS PRV PSI PSIA RAF RCP RD RF RH RL RLA RLA RPM RRP RS RTU RS RTU R/A SAN SD SENS SF	PRESSURE PRESSURE RELIEF VALVE POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABS RETURN AIR FAN RADIANT CEILING PANEL ROOF DRAIN RELIEF AIR FAN RELATIVE HUMIDITY REFRIGERANT LIQUID RATED LOAD AMPS REVOLUTIONS PER MINUTE REFRIGERANT RELIEF PIPING REFRIGERANT SUCTION ROOFTOP UNIT RETURN AIR SANITARY SMOKE DETECTOR SENSIBLE SUPPLY AIR FAN
(T) $(H)$	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE STEAM (00-70 PSI) HIGH PRESSURE CONDENSATE MEDIUM PRESSURE STEAM (09-16 PSI) MEDIUM PRESSURE STEAM (0-15 PSI) LOW PRESSURE STEAM (0-15 PSI) LOW PRESSURE CONDENSATE PUMPED CONDENSATE ATMOSPHERIC VENT (STEAM OR HOT VAPOR)	DD DEG DIA DIV DN DP DPR DPT DS DTL DTR DTS DVG. DX (E) EAT E.C. EDH EER EFF	DUAL DUCTDEGREEDIAMETERDIVISIONDOWNDIFFERENTIAL PRESSURE SENSORDAMPERDEW POINT TEMPERATUREDUCTLESS SPLIT-SYSTEMDETAILDUAL TEMPERATURE RETURNDUAL TEMPERATURE SUPPLYDRAWINGDIRECT EXPANSIONEXISTINGENTERING AIR TEMPERATUREELECTRICAL CONTRACTORELECTRIC DUCT HEATERENERGY EFFICIENCY RATIOEXHAUST FANEFFICIENCY	PRESS PRV PSI PSIA RAF RCP RD RF RH RL RLA RLA RPM RRP RS RTU RXP SAN SD SENS SF SH	PRESSURE PRESSURE RELIEF VALVE POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABS RETURN AIR FAN RADIANT CEILING PANEL ROOF DRAIN RELIEF AIR FAN RELATIVE HUMIDITY REFRIGERANT LIQUID RATED LOAD AMPS REVOLUTIONS PER MINUTE REFRIGERANT RELIEF PIPING REFRIGERANT RELIEF PIPING REFRIGERANT SUCTION ROOFTOP UNIT RETURN AIR SANITARY SMOKE DETECTOR SENSIBLE SUPPLY AIR FAN SENSIBLE HEAT
(T) $(H)$	LOWER DUCT BROKENTHERMOSTATHUMIDISTATHIGH PRESSURE STEAM (100-70 PSI)HIGH PRESSURE CONDENSATEMEDIUM PRESSURE STEAM (69-16 PSI)MEDIUM PRESSURE CONDENSATELOW PRESSURE STEAM (0-15 PSI)LOW PRESSURE STEAM (0-15 PSI)LOW PRESSURE CONDENSATEPUMPED CONDENSATEPUMPED CONDENSATEATMOSPHERIC VENT (STEAM OR HOT VAPOR)CHILLED WATER SUPPLY	DD DEG DIA DIV DN DP DPR DPT DS DTL DTR DTS DWG. DX (E) EAT E.C. EDH EER EFF EFF ENT	DUAL DUCTDEGREEDIAMETERDIVISIONDOWNDIFFERENTIAL PRESSURE SENSORDAMPERDEW POINT TEMPERATUREDUCTLESS SPLIT-SYSTEMDETAILDUAL TEMPERATURE RETURNDUAL TEMPERATURE SUPPLYDRAWINGDIRECT EXPANSIONEXISTINGENTERING AIR TEMPERATUREELECTRICAL CONTRACTORELECTRIC DUCT HEATERENERGY EFFICIENCY RATIOEXHAUST FANEFFICIENCYENTERING	PRESS PRV PSI PSIA RAF RCP RD RF RH RL RLA RLA RLA RLA RPM RRP RS RTU RXP SAN SD SENS SF SH SL	PRESSURE PRESSURE RELIEF VALVE POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABS RETURN AIR FAN RADIANT CEILING PANEL ROOF DRAIN RELIEF AIR FAN RELATIVE HUMIDITY REFRIGERANT LIQUID RATED LOAD AMPS REVOLUTIONS PER MINUTE REFRIGERANT RELIEF PIPING REFRIGERANT SUCTION ROOFTOP UNIT RETURN AIR SANITARY SMOKE DETECTOR SENSIBLE SUPPLY AIR FAN SENSIBLE HEAT SOUND LINING
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(T) $(H)$	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE CONDENSATE MEDIUM PRESSURE STEAM (69-16 PSI) MEDIUM PRESSURE STEAM (69-16 PSI) LOW PRESSURE STEAM (0-15 PSI) LOW PRESSURE STEAM (0-15 PSI) LOW PRESSURE CONDENSATE PUMPED CONDENSATE ATMOSPHERIC VENT (STEAM OR HOT VAPOR) CHILLED WATER SUPPLY	DD DEG DIA DIV DN DP DPR DPT DS DTL DTS DTL DTS DWG. DX (E) EAT E.C. EDH EER EFF EFF ENT ER ESP	DUAL DUCTDEGREEDIAMETERDIVISIONDOWNDIFFERENTIAL PRESSURE SENSORDAMPERDEW POINT TEMPERATUREDUCTLESS SPLIT-SYSTEMDETAILDUAL TEMPERATURE RETURNDUAL TEMPERATURE SUPPLYDRAWINGDIRECT EXPANSIONEXISTINGENTERING AIR TEMPERATUREELECTRICAL CONTRACTORELECTRIC DUCT HEATERENERGY EFFICIENCY RATIOEXHAUST FANEFFICIENCYENTERINGEXHAUST REGISTEREXTERNAL STATIC PRESSUREEXDANSION TANTO	PRESS PRV PSI PSIA RAF RCP RD RF RH RL RLA RLA RPM RRP RS RTU RXP SS SS SS SS SS SS SS SS SS SS SS SS SS	PRESSURE PRESSURE RELIEF VALVE POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABS RETURN AIR FAN RADIANT CEILING PANEL ROOF DRAIN RELIEF AIR FAN RELIEF AIR FAN RELATIVE HUMIDITY REFRIGERANT LIQUID RATED LOAD AMPS REVOLUTIONS PER MINUTE REFRIGERANT RELIEF PIPING REFRIGERANT SUCTION ROOFTOP UNIT RETURN AIR SANITARY SMOKE DETECTOR SENSIBLE SUPPLY AIR FAN SENSIBLE HEAT SOUND LINING STATIC PRESSURE SPECIFICATION SPLIT SYSTEM
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(T) $(H)$	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE CONDENSATE MEDIUM PRESSURE STEAM (69-16 PSI) MEDIUM PRESSURE STEAM (69-16 PSI) MEDIUM PRESSURE STEAM (0-15 PSI) LOW PRESSURE STEAM (0-15 PSI) LOW PRESSURE CONDENSATE PUMPED CONDENSATE ATMOSPHERIC VENT (STEAM OR HOT VAPOR) CHILLED WATER SUPPLY CHILLED WATER RETURN CONDENSER WATER SUPPLY	DD DEG DIA DIV DN DP DPR DPT DS DTL DTS DTL DTS DTL DTS DWG. DX (E) EAT E.C. EDH EER EF EFF EFF EFF ENT ER ESP ET EWT FXH	DUAL DUCTDEGREEDIAMETERDIVISIONDOWNDIFFERENTIAL PRESSURE SENSORDAMPERDEW POINT TEMPERATUREDUCTLESS SPLIT-SYSTEMDETAILDUAL TEMPERATURE RETURNDUAL TEMPERATURE SUPPLYDRAWINGDIRECT EXPANSIONEXISTINGENTERING AIR TEMPERATUREELECTRICAL CONTRACTORELECTRIC DUCT HEATERENERGY EFFICIENCY RATIOEXHAUST FANEFFICIENCYENTERINGEXHAUST REGISTEREXPANSION TANKENTERING WATER TEMPERATUREEXPANSION TANKENTERING WATER TEMPERATUREEXHAUST AIR	PRESS PRV PSI PSIA RAF RAF RD RF RH RL RL RLA RPM RRP RS RTU RXA SAN SD SENS SF SH SL SP SPEC SS SSTL STD	PRESSURE PRESSURE RELIEF VALVE POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABS RETURN AIR FAN RADIANT CEILING PANEL ROOF DRAIN RELIEF AIR FAN RELATIVE HUMIDITY REFRIGERANT LIQUID RATED LOAD AMPS REVOLUTIONS PER MINUTE REFRIGERANT RELIEF PIPING REFRIGERANT SUCTION ROOFTOP UNIT RETURN AIR SANITARY SMOKE DETECTOR SENSIBLE SUPPLY AIR FAN SENSIBLE HEAT SOUND LINING STATIC PRESSURE SPECIFICATION SPLIT SYSTEM STAINLESS STEEL STANDARD
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(T) $(T)$ $(H)$	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HUMIDISTAT HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE CONDENSATE MEDIUM PRESSURE CONDENSATE LOW PRESSURE CONDENSATE LOW PRESSURE CONDENSATE LOW PRESSURE CONDENSATE PUMPED CONDENSATE ATMOSPHERIC VENT (STEAM OR HOT VAPOR) CHILLED WATER SUPPLY CHILLED WATER RETURN CONDENSER WATER SUPPLY CONDENSER WATER RETURN HOT WATER SUPPLY (HEATING)	DD DEG DIA DIV DN DP DPR DPT DS DTL DTS DTL DTS DWG. DX (E) EAT E.C. EDH EER EF EFF ENT ER EF EFF ENT ER ESP ET EWT EXH F %T	DUAL DUCTDEGREEDIAMETERDIVISIONDOWNDIFFERENTIAL PRESSURE SENSORDAMPERDEW POINT TEMPERATUREDUCTLESS SPLIT-SYSTEMDETAILDUAL TEMPERATURE RETURNDUAL TEMPERATURE SUPPLYDRAWINGDIRECT EXPANSIONEXISTINGENTERING AIR TEMPERATUREELECTRICAL CONTRACTORELECTRIC DUCT HEATERENERGY EFFICIENCY RATIOEXHAUST FANEFFICIENCYENTERINGEXHAUST REGISTEREXPANSION TANKENTERING WATER TEMPERATUREEXPANSION TANKENTERING WATER TEMPERATUREEXHAUST AIRFANFLOAT & THERMOSTATIC TRAP	PRESS         PRV         PSI         PSIA         RAF         RCP         RD         RF         RH         RL         RLA         RPM         RRP         RS         RTU         R/A         SAN         SD         SENS         SF         SH         SL         SPEC         SS         SSTL         STM         SYS	PRESSUREPRESSURE RELIEF VALVEPOUNDS PER SQUARE INCHPOUNDS PER SQUARE INCH ABSRETURN AIR FANRADIANT CEILING PANELROOF DRAINRELIEF AIR FANRELATIVE HUMIDITYREFRIGERANT LIQUIDRATED LOAD AMPSREVOLUTIONS PER MINUTEREFRIGERANT RELIEF PIPINGREFRIGERANT SUCTIONROOFTOP UNITRETURN AIRSANITARYSMOKE DETECTORSENSIBLESUPPLY AIR FANSENSIBLE HEATSOUND LININGSTATIC PRESSURESPECIFICATIONSPLIT SYSTEMSTAINLESS STEELSTANDARDSTEAMSYSTEM
(T) $(T)$ $(H)$	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HUMIDISTAT HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE STEAM (00-70 PSI) HIGH PRESSURE CONDENSATE MEDIUM PRESSURE STEAM (00-16 PSI) MEDIUM PRESSURE CONDENSATE LOW PRESSURE STEAM (0-15 PSI) LOW PRESSURE STEAM (0-15 PSI) LOW PRESSURE CONDENSATE PUMPED CONDENSATE ATMOSPHERIC VENT (STEAM OR HOT VAPOR) CHILLED WATER SUPPLY CHILLED WATER RETURN CONDENSER WATER RETURN HOT WATER SUPPLY (HEATING) HOT WATER RETURN (HEATING)	DD DEG DIA DIV DN DP DPR DPT DS DTL DTS DTL DTS DWG. DX (E) EAT E.C. EDH EER EFF EFF ENT ER EFF EFF ENT ER F&T F&T F&T	DUAL DUCTDEGREEDIAMETERDIVISIONDOWNDIFFERENTIAL PRESSURE SENSORDAMPERDEW POINT TEMPERATUREDUCTLESS SPLIT-SYSTEMDETAILDUAL TEMPERATURE RETURNDUAL TEMPERATURE SUPPLYDRAWINGDIRECT EXPANSIONEXISTINGENTERING AIR TEMPERATUREELECTRICAL CONTRACTORELECTRIC DUCT HEATERENERGY EFFICIENCY RATIOEXHAUST FANEFFICIENCYENTERINGEXTERNAL STATIC PRESSUREEXPANSION TANKENTERING WATER TEMPERATUREEXHAUST AIRFANFLOAT & THERMOSTATIC TRAPFAN COLL UNIT	PRESS         PRV         PSI         PSIA         PSIA         RAF         RCP         RD         RF         RH         RL         RLA         RPM         RRP         RS         RTU         R/A         SAN         SD         SENS         SF         SH         SPEC         SS         SSTL         STD         STM         SYS         S/A	PRESSUREPRESSURE RELIEF VALVEPOUNDS PER SQUARE INCHPOUNDS PER SQUARE INCH ABSRETURN AIR FANRADIANT CEILING PANELROOF DRAINRELIEF AIR FANRELATIVE HUMIDITYREFRIGERANT LIQUIDRATED LOAD AMPSREVOLUTIONS PER MINUTEREFRIGERANT RELIEF PIPINGREFRIGERANT SUCTIONROOFTOP UNITRETURN AIRSANITARYSMOKE DETECTORSENSIBLESUPPLY AIR FANSENSIBLE HEATSOUND LININGSTATIC PRESSURESPECIFICATIONSPLIT SYSTEMSTAINLESS STEELSTANDARDSTEAMSYSTEMSUPPLY AIR
(T) $(T)$ $(H)$	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE CONDENSATE MEDIUM PRESSURE CONDENSATE MEDIUM PRESSURE STEAM (69-16 PSI) MEDIUM PRESSURE CONDENSATE LOW PRESSURE STEAM (0-15 PSI) LOW PRESSURE STEAM (0-15 PSI) LOW PRESSURE CONDENSATE PUMPED CONDENSATE MINOSPHERIC VENT (STEAM OR HOT VAPOR) CHILLED WATER SUPPLY CHILLED WATER RETURN CONDENSER WATER RETURN HOT WATER SUPPLY (HEATING) HOT WATER RETURN (HEATING)	DD DEG DIA DIV DN DP DPR DPT DS DTL DTS DTL DTS DWG. DX (E) EAT E.C. EDH EER EF EFF EFF ENT ER EF EFF EFF ENT ER ESP ET EWT EXH F &T F&T FQU FD	DUAL DUCTDEGREEDIAMETERDIVISIONDOWNDIFFERENTIAL PRESSURE SENSORDAMPERDEW POINT TEMPERATUREDUCTLESS SPLIT-SYSTEMDETAILDUAL TEMPERATURE RETURNDUAL TEMPERATURE SUPPLYDRAWINGDIRECT EXPANSIONEXISTINGENTERING AIR TEMPERATUREELECTRICAL CONTRACTORELECTRIC DUCT HEATERENERGY EFFICIENCY RATIOEXHAUST FANEFFICIENCYENTERINGEXHAUST REGISTEREXPANSION TANKENTERING WATER TEMPERATUREEXPANSION TANKENTERING WATER TEMPERATUREEXHAUST AIRFANFLOAT & THERMOSTATIC TRAPFAN COLL UNITFIRE DAMPER	PRESS         PRV         PSI         PSIA         RAF         RCP         RD         RF         RH         RLA         RPM         RRP         RS         RTU         R/A         SAN         SD         SENS         SF         SH         SL         SPEC         SS         SSTL         STM         SYS         S/A         TEMP	PRESSUREPRESSURE RELIEF VALVEPOUNDS PER SQUARE INCHPOUNDS PER SQUARE INCH ABSRETURN AIR FANRADIANT CEILING PANELROOF DRAINRELIEF AIR FANRELATIVE HUMIDITYREFRIGERANT LIQUIDRATED LOAD AMPSREVOLUTIONS PER MINUTEREFRIGERANT RELIEF PIPINGREFRIGERANT SUCTIONROOFTOP UNITRETURN AIRSANITARYSMOKE DETECTORSENSIBLESUPPLY AIR FANSENSIBLE HEATSOUND LININGSTATIC PRESSURESPECIFICATIONSPLIT SYSTEMSTAINLESS STEELSTANDARDSTEAMSUPPLY AIRTEMPERATURE
(T) $(T)$ $(H)$	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HUGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE CONDENSATE MEDIUM PRESSURE STEAM (69-16 PSI) MEDIUM PRESSURE STEAM (69-16 PSI) MEDIUM PRESSURE CONDENSATE LOW PRESSURE STEAM (0-15 PSI) LOW PRESSURE STEAM (0-15 PSI) LOW PRESSURE STEAM (0-15 PSI) LOW PRESSURE CONDENSATE PUMPED CONDENSATE PUMPED CONDENSATE MUMPED CONDENSATE ATMOSPHERIC VENT (STEAM OR HOT VAPOR) CHILLED WATER SUPPLY CHILLED WATER RETURN CONDENSER WATER RETURN HOT WATER SUPPLY (HEATING) HOT WATER RETURN (HEATING) CONDENSATE DRAIN REFRIGERANT DISCHARGE	DD DEG DIA DIV DN DP DPR DPT DS DTL DTS DTL DTS DWG. DX (E) EAT E.C. EDH EER EFF EFF EFF EFF EFF ENT ER ESP ET EXH F T SUU FD FLA	DUAL DUCTDEGREEDIAMETERDIVISIONDOWNDIFFERENTIAL PRESSURE SENSORDAMPERDEW POINT TEMPERATUREDUCTLESS SPLIT-SYSTEMDETAILDUAL TEMPERATURE RETURNDUAL TEMPERATURE SUPPLYDRAWINGDIRECT EXPANSIONEXISTINGENTERING AIR TEMPERATUREELECTRICAL CONTRACTORELECTRIC DUCT HEATERENERGY EFFICIENCY RATIOEXHAUST FANEFFICIENCYENTERINGEXTERNAL STATIC PRESSUREEXPANSION TANKENTERING WATER TEMPERATUREEXHAUST AIRFANFLOAT & THERMOSTATIC TRAPFAN COLL UNITFIRE DAMPERFULL LOAD AMPS	PRESS         PRV         PSI         PSIA         PSIA         RAF         RCP         RD         RF         RL         RL         RLA         RPM         RRP         RS         RTU         R/A         SAN         SD         SENS         SF         SH         SL         SPEC         SS         STD         STM         SYS         S/A         TEMP         TOS	PRESSUREPRESSURE RELIEF VALVEPOUNDS PER SQUARE INCHPOUNDS PER SQUARE INCH ABSRETURN AIR FANRADIANT CEILING PANELROOF DRAINRELIEF AIR FANRELATIVE HUMIDITYREFRIGERANT LIQUIDRATED LOAD AMPSREVOLUTIONS PER MINUTEREFRIGERANT RELIEF PIPINGREFRIGERANT SUCTIONROOFTOP UNITRETURN AIRSANITARYSMOKE DETECTORSENSIBLESUPPLY AIR FANSENSIBLE HEATSOUND LININGSTATIC PRESSURESPECIFICATIONSPLIT SYSTEMSTAINLESS STEELSTANDARDSTEAMSUPPLY AIRTEMPERATURETOP OF STEEL
(T) $(T)$ $(H)$	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE CONDENSATE MEDIUM PRESSURE STEAM (69-16 PSI) MEDIUM PRESSURE STEAM (69-16 PSI) MEDIUM PRESSURE CONDENSATE LOW PRESSURE STEAM (0-15 PSI) LOW PRESSURE STEAM (0-15 PSI) LOW PRESSURE CONDENSATE PUMPED CONDENSATE PUMPED CONDENSATE MTMOSPHERIC VENT (STEAM OR HOT VAPOR) CHILLED WATER SUPPLY CHILLED WATER SUPPLY CONDENSER WATER RETURN HOT WATER SUPPLY (HEATING) HOT WATER RETURN (HEATING) CONDENSATE DRAIN REFRIGERANT DISCHARGE REFRIGERANT HOT GAS	DD DEG DIA DIV DN DP DPR DPT DS DTL DTS DTL DTS DWG. DX (E) EAT E.C. EDH EER EFF EFF ENT ER EFF EFF ENT ER F&T F&T F&T F&T F&T FLA FLA	DUAL DUCTDEGREEDIAMETERDIVISIONDOWNDIFFERENTIAL PRESSURE SENSORDAMPERDEW POINT TEMPERATUREDUCTLESS SPLIT-SYSTEMDETAILDUAL TEMPERATURE RETURNDUAL TEMPERATURE SUPPLYDRAWINGDIRECT EXPANSIONEXISTINGENTERING AIR TEMPERATUREELECTRICAL CONTRACTORELECTRIC DUCT HEATERENERGY EFFICIENCY RATIOEXHAUST FANEFFICIENCYENTERINGEXTERNAL STATIC PRESSUREEXPANSION TANKENTERING WATER TEMPERATUREEXHAUST AIRFANFLOAT & THERMOSTATIC TRAPFAN COIL UNITFIRE DAMPERFULL LOAD AMPSFLOOR	PRESS         PRV         PSI         PSIA         PSIA         RAF         RCP         RD         RF         RH         RLA         RPM         RLA         RPM         SU         RS         RTU         RS         SD         SENS         SF         SH         SU         SPEC         SS         SSTL         STD         SYS         S/A         TEMP         TOS         TSP	PRESSUREPRESSURE RELIEF VALVEPOUNDS PER SQUARE INCHPOUNDS PER SQUARE INCH ABSRETURN AIR FANRADIANT CEILING PANELROOF DRAINRELIEF AIR FANRELATIVE HUMIDITYREFRIGERANT LIQUIDRATED LOAD AMPSREVOLUTIONS PER MINUTEREFRIGERANT RELIEF PIPINGREFRIGERANT RELIEF PIPINGREFRIGERANT SUCTIONROOFTOP UNITRETURN AIRSANITARYSMOKE DETECTORSENSIBLESUPPLY AIR FANSENSIBLE HEATSOUND LININGSTATIC PRESSURESPECIFICATIONSPLIT SYSTEMSTAINLESS STEELSTANDARDSTEAMSUPPLY AIRTEMPERATURETOP OF STEELTOP OF STEELTOTAL STATIC PRESSURE
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(T) $(T)$ $(H)$	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE CONDENSATE MEDIUM PRESSURE STEAM (69-16 PSI) MEDIUM PRESSURE STEAM (69-16 PSI) MEDIUM PRESSURE STEAM (0-15 PSI) LOW PRESSURE STEAM (0-15 PSI) LOW PRESSURE STEAM (0-15 PSI) LOW PRESSURE CONDENSATE PUMPED CONDENSATE PUMPED CONDENSATE MILLED WATER SUPPLY CHILLED WATER SUPPLY CONDENSER WATER RETURN HOT WATER SUPPLY (HEATING) LOW DATER RETURN (HEATING) CONDENSATE DRAIN REFRIGERANT HOT GAS REFRIGERANT HOT GAS	DD DEG DIA DIV DN DP DPR DPT DS DTL DTS DTL DTS DWG. DX (E) EAT E.C. EDH EER EFF EFF ENT ER EFF EFF ENT ER FAT F&T F&T F&T F&T F&T FON FON	DUAL DUCTDEGREEDIAMETERDIVISIONDOWNDIFFERENTIAL PRESSURE SENSORDAMPERDEW POINT TEMPERATUREDUCTLESS SPLIT-SYSTEMDETAILDUAL TEMPERATURE RETURNDUAL TEMPERATURE SUPPLYDRAWINGDIRECT EXPANSIONEXISTINGENTERING AIR TEMPERATUREELECTRICAL CONTRACTORELECTRIC DUCT HEATERENERGY EFFICIENCY RATIOEXHAUST FANEFFICIENCYENTERINGEXTERNAL STATIC PRESSUREEXPANSION TANKENTERING WATER TEMPERATUREEXHAUST AIRFANFLOAT & THERMOSTATIC TRAPFAN COIL UNITFIRE DAMPERFULL LOAD AMPSFLOORFUEL OIL RETURNFUEL OIL SUPPLY	PRESS         PRV         PSI         PSIA         PSIA         PSIA         RAF         RCP         RD         RF         RH         RL         RLA         RPM         RRP         RS         RTU         RV         SAN         SD         SENS         SF         SH         SL         SPEC         SS         SSTL         STD         STM         SYS         S/A         TEMP         TOS         TSP         T STAT         TYP.	PRESSUREPRESSURE RELIEF VALVEPOUNDS PER SQUARE INCHPOUNDS PER SQUARE INCH ABSRETURN AIR FANRADIANT CEILING PANELROOF DRAINRELIEF AIR FANRELATIVE HUMIDITYREFRIGERANT LIQUIDRATED LOAD AMPSREVOLUTIONS PER MINUTEREFRIGERANT RELIEF PIPINGREFRIGERANT SUCTIONROOFTOP UNITRETURN AIRSANITARYSMOKE DETECTORSENSIBLESUPPLY AIR FANSENSIBLE HEATSOUND LININGSTATIC PRESSURESPECIFICATIONSTAINLESS STEELSTANDARDSTEAMSUPPLY AIRTEMPERATURETOP OF STEELTOTAL STATIC PRESSURETHERMOSTATTYPICAL
$ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE CONDENSATE MEDIUM PRESSURE CONDENSATE MEDIUM PRESSURE CONDENSATE LOW PRESSURE STEAM (0-15 PSI) LOW PRESSURE STEAM (0-15 PSI) LOW PRESSURE CONDENSATE PUMPED CONDENSATE ATMOSPHERIC VENT (STEAM OR HOT VAPOR) CHILLED WATER SUPPLY CHILLED WATER RETURN CONDENSER WATER RETURN HOT WATER SUPPLY (HEATING) HOT WATER RETURN (HEATING) CONDENSATE DRAIN REFRIGERANT DISCHARGE REFRIGERANT HOT GAS	DD DEG DIA DIV DN DP DPR DPT DS DTL DTS DTL DTS DWG. DX (E) EAT E.C. EDH EER EF EFF ENT ER EF EFF ENT ER EF EFF ENT ER F&T F&T F&T F&T FCU FD FLA FOR FOS FOV	DUAL DUCTDEGREEDIAMETERDIVISIONDOWNDIFFERENTIAL PRESSURE SENSORDAMPERDEW POINT TEMPERATUREDUCTLESS SPLIT-SYSTEMDETAILDUAL TEMPERATURE RETURNDUAL TEMPERATURE SUPPLYDRAWINGDIRECT EXPANSIONEXISTINGENTERING AIR TEMPERATUREELECTRICAL CONTRACTORELECTRIC DUCT HEATERENERGY EFFICIENCY RATIOEXHAUST FANEFFICIENCYENTERINGEXTERNAL STATIC PRESSUREEXPANSION TANKENTERING WATER TEMPERATUREEXHAUST AIRFANFLOAT & THERMOSTATIC TRAPFAN COIL UNITFIRE DAMPERFULL LOAD AMPSFLOORFUEL OIL RETURNFUEL OIL SUPPLYFUEL OIL SUPPLYFUEL OIL VENT	PRESS         PRV         PSI         PSIA         PSIA         RAF         RCP         RD         RF         RH         RLA         RPM         RRP         RS         RTU         R/A         SAN         SD         SENS         SF         SH         SU         SPEC         SS         STL         STD         STM         SYS         S/A         TEMP         TOS         TSP         T STAT         TYP.         UCD	PRESSUREPRESSURE RELIEF VALVEPOUNDS PER SQUARE INCHPOUNDS PER SQUARE INCH ABSRETURN AIR FANRADIANT CEILING PANELROOF DRAINRELIEF AIR FANRELATIVE HUMIDITYREFRIGERANT LIQUIDRATED LOAD AMPSREVOLUTIONS PER MINUTEREFRIGERANT RELIEF PIPINGREFRIGERANT SUCTIONROOFTOP UNITRETURN AIRSANITARYSMOKE DETECTORSENSIBLESUPPLY AIR FANSENSIBLE HEATSOUND LININGSTATIC PRESSURESPECIFICATIONSPLIT SYSTEMSTANDARDSTEAMSUPPLY AIRTEMPERATURETOP OF STEELTOTAL STATIC PRESSURETHERMOSTATTYPICALUNDER CUT DOOR
(T) $(T)$ $(H)$	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE CONDENSATE MEDIUM PRESSURE CONDENSATE MEDIUM PRESSURE CONDENSATE LOW PRESSURE STEAM (0-15 PSI) LOW PRESSURE CONDENSATE PUMPED CONDENSATE PUMPED CONDENSATE ATMOSPHERIC VENT (STEAM OR HOT VAPOR) CHILLED WATER SUPPLY CHILLED WATER RETURN CONDENSER WATER RETURN HOT WATER SUPPLY (HEATING) HOT WATER RETURN (HEATING) CONDENSATE DRAIN REFRIGERANT DISCHARGE REFRIGERANT HOT GAS REFRIGERANT LIQUID REFRIGERANT SUCTION DUAL TEMPERATURE SUPPLY	DD DEG DIA DIV DN DP DPR DPT DS DTL DTS DWG. DX (E) EAT E.C. EDH EER EFF EFF EFF ENT ER EFF EFF ENT ER FAT F&T F&T F&T F&T F&T F&T F&T FON FD	DUAL DUCTDEGREEDIAMETERDIVISIONDOWNDIFFERENTIAL PRESSURE SENSORDAMPERDEW POINT TEMPERATUREDUCTLESS SPLIT-SYSTEMDETAILDUAL TEMPERATURE RETURNDUAL TEMPERATURE SUPPLYDRAWINGDIRECT EXPANSIONEXISTINGENTERING AIR TEMPERATUREELECTRICAL CONTRACTORELECTRIC DUCT HEATERENERGY EFFICIENCY RATIOEXHAUST FANEFFICIENCYENTERINGEXTERNAL STATIC PRESSUREEXPANSION TANKENTERING WATER TEMPERATUREEXHAUST AIRFANFLOAT & THERMOSTATIC TRAPFAN COIL UNITFIRE DAMPERFULL LOAD AMPSFLOORFUEL OIL RETURNFUEL OIL SUPPLYFUEL OIL VENTFEET PER MINUTE	PRESS         PRV         PSI         PSIA         RAF         RCP         RD         RF         RH         RLA         RPM         RIC         RLA         RPM         RS         RTU         RS         RTU         RJ         SAN         SD         SENS         SF         SH         SU         SPEC         SS         SSTL         STM         SYS         S/A         TEMP         TOS         TSP         TOS         TSP         TOS         TYP.         UCD         UH	PRESSUREPRESSURE RELIEF VALVEPOUNDS PER SQUARE INCHPOUNDS PER SQUARE INCH ABSRETURN AIR FANRADIANT CEILING PANELROOF DRAINRELIEF AIR FANRELATIVE HUMIDITYREFRIGERANT LIQUIDRATED LOAD AMPSREVOLUTIONS PER MINUTEREFRIGERANT RELIEF PIPINGREFRIGERANT SUCTIONROOF TOP UNITRETURN AIRSANITARYSMOKE DETECTORSENSIBLESUPPLY AIR FANSENSIBLE HEATSOUND LININGSTATIC PRESSURESPECIFICATIONSPLIT SYSTEMSTAINLESS STEELSTANDARDSTEAMSUPPLY AIRTEMPERATURETOP OF STEELTOTAL STATIC PRESSURETHERMOSTATTYPICALUNDER CUT DOORUNIT HEATER
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T T T H HPS HPC HPC MPS HPC MPS LPS LPS LPS LPC CHWR CHWR CHWR CWS CWR KR CWS CWR KR CD-SIZE CFM QTY	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE STEAM (69-16 PSI) HIGH PRESSURE CONDENSATE MEDIUM PRESSURE CONDENSATE LOW PRESSURE STEAM (0-15 PSI) LOW PRESSURE CONDENSATE PUMPED CONDENSATE MTMOSPHERIC VENT (STEAM OR HOT VAPOR) CHILLED WATER SUPPLY CHILLED WATER SUPPLY CHILLED WATER RETURN CONDENSER WATER SUPPLY CONDENSER WATER RETURN HOT WATER SUPPLY (HEATING) LOT WATER SUPPLY (HEATING) CONDENSATE DRAIN REFRIGERANT DISCHARGE REFRIGERANT HOT GAS REFRIGERANT LIQUID MAL TEMPERATURE SUPPLY DIFLUSER NOTE	DD DEG DIA DIV DN DP DPR DPT DS DTL DTS DWG. DX (E) EAT E.C. EDH EER EFF EFF ENT ER ESP ET EWT EXH F & T F&T F&T F&T FON FD FLA FLA FLR FON FON FD FLA FLA FLR FON FON FON FON FON FON FON FON FON FON	DUAL DUCTDEGREEDIAMETERDIVISIONDOWNDIFFERENTIAL PRESSURE SENSORDAMPERDEW POINT TEMPERATUREDUCTLESS SPLIT-SYSTEMDETAILDUAL TEMPERATURE RETURNDUAL TEMPERATURE SUPPLYDRAWINGDIRECT EXPANSIONEXISTINGENTERING AIR TEMPERATUREELECTRICAL CONTRACTORELECTRIC DUCT HEATERENERGY EFFICIENCY RATIOEXHAUST FANEFFICIENCYENTERING WATER TEMPERATUREEXPANSION TANKENTERING WATER TEMPERATUREEXHAUST AIRFANFLOAT & THERMOSTATIC TRAPFAN COIL UNITFIRE DAMPERFULL LOAD AMPSFLOORFUEL OIL RETURNFUEL OIL RETURNFUEL OIL VENTFEET PER MINUTEFINNED RADIATIONFEET PER SECONDFEETFIN TUBE RADIATIONFACE & BY-PASSGALLONSGENERAL CONTRACTOR	PRESS         PRV         PSI         PSIA         RAF         RCP         RD         RF         RH         RLA         RPM         RICP         RS         RTU         RAF         RS         RTU         RJ         SAN         SD         SENS         SF         SH         SL         SPEC         SS         STD         STM         SYS         S/A         TEMP         TOS         TSP         T STAT         TYP.         UCD         UH         UV         VAC         VAV         VD         VEL	PRESSUREPRESSURE RELIEF VALVEPOUNDS PER SQUARE INCHPOUNDS PER SQUARE INCH ABSRETURN AIR FANRADIANT CEILING PANELROOF DRAINRELIEF AIR FANRELATIVE HUMIDITYREFRIGERANT LIQUIDRATED LOAD AMPSREVOLUTIONS PER MINUTEREFRIGERANT RELIEF PIPINGREFRIGERANT SUCTIONROOFTOP UNITRETURN AIRSANITARYSMOKE DETECTORSENSIBLESUPPLY AIR FANSENSIBLE HEATSOUND LININGSTATIC PRESSURESPECIFICATIONSPLIT SYSTEMSTAINLESS STEELSTANDARDSTEAMSUPPLY AIRTEMPERATURETOP OF STEELTOTAL STATIC PRESSURETHERMOSTATTYPICALUNDER CUT DOORUNIT VENTILATORSVALVEVACUUMVARIABLE AIR VOLUMEVOLUME DAMPERVELOCITY
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T T H HPS HPC HPC HPC HPC HPC HPC HPC CHWS CHWS CHWS CHWR CWS CHWR CWS CWR R CWS CWR CWS CWR CWS CWR CWS CD CD CD CD CD CD CD CD CD CD	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HGH PRESSURE STEAM (100-70 PSI) HGH PRESSURE CONDENSATE MEDIUM PRESSURE CONDENSATE LOW PRESSURE CONDENSATE LOW PRESSURE CONDENSATE AUMPED CONDENSATE AUMOED CONDENSATE ATMOSPHERIC VENT (STEAM OR HOT VAPOR) CHILLED WATER RETURN CONDENSER WATER SUPPLY CONDENSER WATER SUPPLY CONDENSER WATER RETURN HOT WATER SUPPLY (HEATING) HOT WATER RETURN (HEATING) CONDENSATE DRAIN REFRIGERANT DISCHARGE REFRIGERANT SUCTION DUAL TEMPERATURE SUPPLY DUAL TEMPERATURE RETURN DIFFUSER NOTE	DD DEG DIA DIV DN DP DPR DPT DS DTL DTS DWG. DX (E) EAT E.C. EDH EER EFF ENT ER EFF ENT ER ESP ET EWT EXH F F&T FCU FD FLA FLR FOS FOV FPM FR FS FT FTR F&BP GAL G.C. GLR GRV GVR H HC	DUAL DUCTDEGREEDIAMETERDIVISIONDOWNDIFFERENTIAL PRESSURE SENSORDAMPERDEW POINT TEMPERATUREDUCTLESS SPLIT-SYSTEMDETAILDUAL TEMPERATURE RETURNDUAL TEMPERATURE RETURNDUAL TEMPERATURE SUPPLYDRAWINGDIRECT EXPANSIONEXISTINGENTERING AIR TEMPERATUREELECTRICAL CONTRACTORELECTRICAL CONTRACTORELECTRICAL CONTRACTORELECTRICAL CONTRACTORELECTRICAL CONTRACTORENERGY EFFICIENCY RATIOEXHAUST FANEFFICIENCYENTERINGEXTERNAL STATIC PRESSUREEXPANSION TANKENTERING WATER TEMPERATUREEXHAUST AIRFANFLOAT & THERMOSTATIC TRAPFAN COLU UNITFIRE DAMPERFULL LOAD AMPSFLOORFUEL OIL RETURNFUEL OIL SUPPLYFUEL OIL VENTFEET PER MINUTEFINNED RADIATIONFACE & BY-PASSGALLONSGENERAL CONTRACTORGLYCOL LOOP SUPPLYGALLONS PER MINUTEGRAVITY RELIEF VENTILATORGAS VENT RELIEFHOODHEATING COLLUEAD	PRESS         PRV         PSI         PSIA         RAF         RCP         RD         RF         RH         RLA         RPM         RRP         RS         RTU         R/A         SD         SENS         SF         SH         SL         SP         SPEC         SS         STD         STM         SYS         S/A         TEMP         TOS         TSP         T STAT         TYP.         UCD         UH         UL         UV         VAC         VAD         VEL         VFD         VOL         WG         WOAC	PRESSUREPRESSURE RELIEF VALVEPOUNDS PER SQUARE INCHPOUNDS PER SQUARE INCH ABSRETURN AIR FANRADIANT CEILING PANELROOF DRAINRELIEF AIR FANRELATIVE HUMIDITYREFRIGERANT LIQUIDRATED LOAD AMPSREVOLUTIONS PER MINUTEREFRIGERANT RELIEF PIPINGREFRIGERANT SUCTIONROOF TOP UNITRETURN AIRSANITARYSMOKE DETECTORSENSIBLESUPPLY AIR FANSENSIBLE HEATSOUND LININGSTATIC PRESSURESPECIFICATIONSPLIT SYSTEMSTAINLESS STEELSTANDARDSTEAMSYSTEMSUPPLY AIRTEMPERATURETOP OF STEELTOTAL STATIC PRESSURETHERMOSTATTYPICALUNDER CUT DOORUNIT HEATERUNDER WRITERS LABORATORYUNIT VENTILATORSVALVEVACUUMVARIABLE AIR VOLUMEVOLUME DAMPERVELOCITYVARAIBLE FREQUENCY DRIVEVOLUMEWIDTHWET BULBWATER COLUMNWATER GAUGEWALL OPENING ABOVE CEILING
T T HPS HPC HPC HPC HPC HPC HPC PC T CHWS CHWS CHWS CHWS CHWS CHWS CHWS CHWS CHWS CHWS CHWS CHWS CHWS CD CD CD CD CD CD CD CD CD CD	LOWER DUCT BROKEN THERMOSTAT HUMIDISTAT HIGH PRESSURE STEAM (100-70 PSI) HIGH PRESSURE CONDENSATE MEDIUM PRESSURE CONDENSATE LOW PRESSURE CONDENSATE LOW PRESSURE CONDENSATE DUMPED CONDENSATE ATMOSPHERIC VENT (STEAM OR HOT VAPOR) CHILLED WATER SUPPLY CHILLED WATER RETURN CONDENSER WATER SUPPLY CONDENSER WATER RETURN HOT WATER SUPPLY (HEATING) HOT WATER RETURN (HEATING) CONDENSATE DRAIN REFRIGERANT DISCHARGE REFRIGERANT SUCTION DUAL TEMPERATURE SUPPLY DUAL TEMPERATURE RETURN DIFFUSER NOTE	DD DEG DIA DIV DN DP DPR DPT DS DTL DTS DWG. DX (E) EAT E.C. EDH EER EFF ENT ER EFF ENT EXH F & T FCU FD FLA FLR FOS FOV FPM FR FSS FT FTR F&BP GAL G.C. GLR GVR H HC HD	DUAL DUCTDEGREEDIAMETERDIVISIONDOWNDIFFERENTIAL PRESSURE SENSORDAMPERDEW POINT TEMPERATUREDUCTLESS SPLIT-SYSTEMDETAILDUAL TEMPERATURE RETURNDUAL TEMPERATURE SUPPLYDRAWINGDIRECT EXPANSIONEXISTINGENTERING AIR TEMPERATUREELECTRICAL CONTRACTORELECTRICAL CONTRACTORELECTRICAL CONTRACTORELECTRICAL CONTRACTORELECTRICAL CONTRACTORENERGY EFFICIENCY RATIOEXHAUST FANEFFICIENCYENTERINGEXTERNAL STATIC PRESSUREEXPANSION TANKENTERING WATER TEMPERATUREEXHAUST AIRFANFLOAT & THERMOSTATIC TRAPFAN COIL UNITFIRE DAMPERFULL LOAD AMPSFLOORFUEL OIL RETURNFUEL OIL SUPPLYFUEL OIL VENTFEET PER MINUTEFINNED RADIATIONFACE & BY-PASSGALLONSGENERAL CONTRACTORGLYCOL LOOP RETURNGLYCOL LOOP SUPPLYGALLONS PER MINUTEGRAVITY RELIEFHOODHEATING COILHEADHEADHOOD	PRESS         PRV         PSI         PSIA         RAF         RCP         RD         RF         RH         RL         RLA         RPM         RRP         RS         RTU         R/A         SAN         SD         SENS         SF         SH         SL         SP         SPEC         SS         STM         SYS         S/A         TEMP         TOS         TSP         T STAT         TYP.         UCD         UH         UL         UV         VAC         VAD         VAC         VAD         VEL         VFD         VOL         WG         WOAC         WOBC	PRESSUREPRESSURE RELIEF VALVEPOUNDS PER SQUARE INCHPOUNDS PER SQUARE INCH ABSRETURN AIR FANRADIANT CEILING PANELROOF DRAINRELIEF AIR FANRELATIVE HUMIDITYREFRIGERANT LIQUIDRATED LOAD AMPSREVOLUTIONS PER MINUTEREFRIGERANT RELIEF PIPINGREFRIGERANT SUCTIONROOF TOP UNITRETURN AIRSANITARYSMOKE DETECTORSENSIBLESUPPLY AIR FANSENSIBLESUPPLY AIR FANSENSIBLESPECIFICATIONSPLIT SYSTEMSTAINLESS STEELSTANDARDSTEAMSYSTEMSUPPLY AIRTEMPERATURETOP OF STEELTOTAL STATIC PRESSURETHERMOSTATTYPICALUNDER CUT DOORUNIT HEATERUNDER CUT DOORUNIT VENTILATORSVALVEVACUUMVARIABLE AIR VOLUMEVOLUME DAMPERVELOCITYVARAIBLE FREQUENCY DRIVEVOLUMEWATER COLUMNWATER GAUGEWALL OPENING ABOVE CEILINGWALL OPENING BELOW CEILING
T T T HPS HPC HPC HPC HPC HPC HPC CHWS CD CHWS	LOWER DUCT BROKEN  HERMOSTAT  HUMIDISTAT  HUMIDISTAT  HUMIDISTAT  HGH PRESSURE STEAM (100-70 PSI)  HGH PRESSURE CONDENSATE  MEDIUM PRESSURE STEAM (69-16 PSI)  MEDIUM PRESSURE CONDENSATE  LOW PRESSURE CONDENSATE  LOW PRESSURE CONDENSATE  MMOSPHERIC VENT (STEAM OR HOT VAPOR)  CHILLED WATER SUPPLY  CHILLED WATER SUPPLY  CHILLED WATER RETURN  HOT WATER SUPPLY (HEATING)  CONDENSATE DRAIN  REFRIGERANT HOT GAS  REFRIGERANT HOT GAS  REFRIGERANT LIQUID  DUAL TEMPERATURE SUPPLY  DIFFUSER NOTE	DD DEG DIA DIV DN DP DPR DPT DS DTL DTS DWG. DX (E) EAT E.C. EDH EER EFF EFF ENT ER EFF EFF ENT EXH F F&T FCU FD FLA FLR FOS FOV FPM FR FSS FT FTR F&BP GAL G.C. GLR GVR H HC HD	DUAL DUCT DEGREE DIAMETER DIAMETER DIVISION DOWN DIFFERENTIAL PRESSURE SENSOR DAMPER DEW POINT TEMPERATURE DUCTLESS SPLIT-SYSTEM DETAIL DUAL TEMPERATURE RETURN DUAL TEMPERATURE RETURN DUAL TEMPERATURE SUPPLY DRAWING DIRECT EXPANSION EXISTING ENTERING AIR TEMPERATURE ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR ELECTRICA LOUT HEATER ENERGY EFFICIENCY RATIO EXHAUST FAN EFFICIENCY ENTERING EXTERNAL STATIC PRESSURE EXPANSION TANK ENTERING WATER TEMPERATURE EXPANSION TANK ENTERING WATER TEMPERATURE EXHAUST AIR FAN FLOAT & THERMOSTATIC TRAP FAN COIL UNIT FIRE DAMPER FULL OAD AMPS FLOOR FUEL OIL SUPPLY FUEL SECOND FUEL FUEL SECOND FUEL FUEL SECOND FUEL FUEL SECOND FUEL FUEL FUEL SECOND FUEL FUEL SECOND FUEL FUEL SECOND FUEL FUEL SECOND FUEL FUEL SECOND FUEL FUEL SECOND FUEL FUEL SECOND FUEL FUEL FUEL SECOND FUE	PRESS         PRV         PSI         PSIA         RAF         RCP         RD         RF         RH         RLA         RPM         RRP         RS         RTU         R/A         SAN         SD         SENS         SF         SH         SL         SP         SPEC         SS         STM         SYS         S/A         TEMP         TOS         TSP         T STAT         TYP.         UCD         UH         UL         UV         VAC         VAV         VEL         VFD         VOL         WG         WOAC         WOBC         WT         WT	PRESSUREPRESSURE RELIEF VALVEPOUNDS PER SQUARE INCH ABSRETURN AIR FANRADIANT CEILING PANELROOF DRAINRELIEF AIR FANRELATIVE HUMIDITYREFRIGERANT LIQUIDRATED LOAD AMPSREVOLUTIONS PER MINUTEREFRIGERANT RELIEF PIPINGREFRIGERANT SUCTIONROOF TOP UNITRETURN AIRSANITARYSMOKE DETECTORSENSIBLESUPPLY AIR FANSENSIBLE HEATSOUND LININGSTATIC PRESSURESPECIFICATIONSPLIT SYSTEMSTAINLESS STEELSTANDARDSTEAMSVSTEMSUPPLY AIRTEMPERATURETOP OF STEELTOTAL STATIC PRESSURETHERMOSTATTYPICALUNDER CUT DOORUNIT HEATERUNDER WRITERS LABORATORYUNIT VENTILATORSVALVEVACUUMVARIABLE AIR VOLUMEVOLUME DAMPERVELOCITYVARAIBLE FREQUENCY DRIVEVOLUMEWATER GAUGEWALL OPENING ABOVE CEILINGWALL OPENING BELOW CEILINGWEIGHTWITH

## MECHANICAL GENERAL NOTES: VERY UNIT 1. GENERAL NOTES APPLY TO ALL HEATING, VENTILATING AND AIR-CONDITIONING (HVAC) DRAWINGS. 2. COORDINATE THE ROOF SUPPORT SYSTEM, STRUCTURAL STEEL, CROSS BRACING, PENETRATIONS, BUILDING ACCESS, BUILDING EQUIPMENT REINFORCEMENT/SUPPORTS, ETC. TO FACILITATE THE INSTALLATION OF HVAC EQUIPMENT AND ROUTING/LOCATION OF DUCTWORK, PIPING, AND THE LIKE. 3. COORDINATE AND FIELD VERIFY ALL DIMENSIONS, SIZES, CLEARANCES AND LOCATION PRIOR TO THE START OF CONSTRUCTION. WHEN R COIL CONFLICTS ARISE, MAKE ANY NECESSARY CHANGES TO ROUTING OF PIPING AND/OR DUCTWORK WITHOUT COMPROMISING THE INTEGRITY R RETURN AND PERFORMANCE OF THE SYSTEM, AND AT NO ADDITIONAL COST TO THE SCHOOL DISTRICT. R SUPPLY 4. HVAC DUCTWORK LAYOUTS ARE SCHEMATIC IN NATURE, PROVIDE OFFSETS AND FITTINGS AS REQUIRED TO ACCOMMODATE FIELD ANGER CONDITIONS AND ALL TRADE WORK BY OTHERS. 5. COORDINATE CONSTRUCTION OF ALL HVAC WORK WITH ARCHITECTURAL, STRUCTURAL, ELECTRICAL, ETC. SHOWN ON OTHER CONTRACT **METER** DOCUMENT DRAWINGS. 6. ALL PIPING AND CONTROL WIRING TO BE CONCEALED IN WALLS, CEILINGS AND CHASES. FOR WALLS WHERE WIRING CANNOT BE CONCEALED IN WALL, ROUTE IN WIREMOLD. COLOR TO MATCH EXISTING WALL. 7. COORDINATE THE LOADING REQUIREMENTS FOR THE SUPPORT OF ALL HVAC SYSTEMS INCLUDING, BUT NOT LIMITED TO EQUIPMENT AND DUCTWORK. R TEMPERATURE 8. PROVIDE HANGERS AND SUPPORTS PER THE SPECIFICATIONS FOR ALL DUCTWORK AND HVAC EQUIPMENT TO FACILITATE INSTALLATION OF THE WORK. 9. PROVIDE VIBRATION ISOLATION DEVICES FOR ALL HVAC EQUIPMENT AND SYSTEMS. REFER TO DETAIL SHEET FOR TYPICAL CONSTRUCTION. SURE CONDENSATE 10. ALL MATERIALS EXPOSED WITHIN RETURN AIR PLENUMS SHALL BE RATED FOR USE IN PLENUMS. PROVIDE MATERIALS THAT ARE NON SURE STEAM COMBUSTIBLE OR HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E-84. ATER TEMPERATURE 11. SCHEDULE AND OBTAIN APPROVAL FOR ALL SYSTEM SHUTDOWNS WITH OWNER PRIOR TO COMMENCING WITH REMOVAL AND NEW WORK. 12. PERFORM ALL CUTTING AND PATCHING NECESSARY TO PERFORM WORK. MATCH MATERIALS, FINISHES, FIRE RATINGS, PAINT COLORS, ETC. S BTU/HR IN ALL AREAS OF PATCHING. L CONTRACTOR 13. NOTE THAT THE IDENTIFICATION LABELS TO BE USED/MADE FOR ALL SYSTEMS MUST USE THE OWNER'S ROOM NUMBERS AND ROOM NAMES, IRCUIT AMPACITY NOT THE NUMBERS OR NAMES ON THE CONSTRUCTION DOCUMENTS. MEET WITH OWNER TO REVIEW AND CONFIRM ROOM NUMBERS AND NAMES PRIOR TO LABELING SYSTEMS. 14. THOROUGHLY COORDINATE ALL CONSTRUCTION, PRIOR TO COMMENCEMENT OF INSTALLATION OF HVAC SYSTEMS. G DAMPER 15. COORDINATE REQUIREMENTS FOR LOSS OF PHASE PROTECTION ON ALL THREE PHASE MOTORS SERVING EQUIPMENT ON THIS CONTRACT. VERCURRENT PROTECTION ESSURE CONDENSATE 16. ALL EQUIPMENT AND/OR MATERIAL BEING REMOVED DURING REMOVAL SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR AND SHALL BE RETAINED OR DISPOSED OF AND REMOVED FROM THE SITE AT THE DIRECTION OF THE OWNER. ESSURE STEAM /ATER 17. ASPECT RATIO OF DUCTWORK SIZING CAN BE CHANGED TO SUIT FIELD CONDITIONS AT THE APPROVAL OF THE OWNER'S REPRESENTATIVE. ER TEMPERATURE 18. PROVIDE FLEXIBLE CONNECTIONS AT ALL DUCTWORK TO EQUIPMENT CONNECTIONS. CABLE 19. PROVIDE TURNING VANES IN ALL DUCT ELBOWS. =RIA 20. PROVIDE VOLUME DAMPERS AT BOOT CONNECTIONS AND BRANCHES OF MAINS FOR ALL SUPPLY, RETURN, AND EXHAUST AIR SYSTEMS. ELECTRICAL CODE **FIRE PROTECTION ASSOCIATION** 21. DUCTWORK DIMENSIONS INDICATE INTERNAL CLEAR DIMENSIONS. ITRACT 22. EQUIPMENT INSULATION SHALL BE INSTALLED AS NOT TO CONCEAL THE EQUIPMENT NAME PLATE. 23. HVAC REMOVAL WORK IN THE BUILDING SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR INCLUDING HVAC EQUIPMENT, SYSTEMS, CLOSED APPARATUS, AND ACCESSORIES, OPEN 24. THE REMOVAL DRAWINGS SHOW A GENERAL REPRESENTATION OF QUANTITIES AND LOCATIONS OF EXISTING HVAC COMPONENTS AND BLADE DAMPER SYSTEMS, AND ARE NOT ALL INCLUSIVE. IT IS CONTRACTOR'S RESPONSIBILITY TO PROVIDE REMOVAL OF THE HVAC SYSTEMS TO FULFILL THE IAMETER INTENT OF THE DESIGN INDICATED BY THE CONTRACT DOCUMENTS, UNLESS OTHERWISE NOTED. REMOVAL WORK IS TO INCLUDE, BUT NOT LIMITED TO REMOVAL OF EQUIPMENT, APPARATUS, SYSTEM ACCESSORIES, DUCT, PIPING, INSULATION, DROPS, RISERS, AUXILIARY SYSTEMS/PIPING/CONTROLS, CONTROLS, CONTROL WIRING/TUBING, CONDUITS, BASES, SUPPORTS, HANGERS AND SYSTEM APPURTENANCES. BLADE DAMPER NDENSATE 25. ENSURE ALL WORK IS IN CONFORMANCE WITH ALL APPLICABLE BUILDING CODES. WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE LATEST EDITIONS OF THE APPLICABLE CONSTRUCTION CODE, AND ALL OTHER FEDERAL, STATE AND LOCAL AGENCY REGULATIONS CONTRACTOR HAVING JURISDICTION OVER THIS PROJECT. IN THE EVENT OF ANY DISCREPANCIES BETWEEN AGENCY REQUIREMENTS, OBSERVE THE MORE DROP STRINGENT OF REQUIREMENTS. 26. ALL WORK SHALL COMPLY WITH THE STANDARDS OF FM GLOBAL, OR THE APPLICABLE RATING BUREAU, THE NATIONAL ELECTRIC CODE (NEC), THE AMERICAN GAS ASSOCIATION (AGA), AND THE AMERICAN SOCIETY OF HEATING AND AIR CONDITIONING ENGINEERS (ASHRAE), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES AND THE REQUIREMENTS OF ALL PUBLIC UTILITY COMPANIES SERVING THE PROJECT SITE. RELIEF VALVE 27. INSTALL ALL EQUIPMENT TO MAINTAIN ADEQUATE CLEARANCES PER MANUFACTURER'S REQUIREMENTS. PROVIDE OFFSETS AS NECESSARY TO FACILITATE. R SQUARE INCH R SQUARE INCH ABSOLUTE 28. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH. FLEXIBLE DUCTWORK SHALL BE INSTALLED WITH SMOOTH RADIUS ELBOWS. R FAN 29. TEMPORARILY REMOVE AND REINSTALL ALL CEILINGS IN WORK AREAS. CEILING SYSTEMS SHALL BE REINSTALLED AFTER REMOVAL AND NEW ILING PANEL WORK ABOVE CEILING HAS BEEN COMPLETED. PROVIDE TEMPORARY SUPPORT ONCE CEILING IS REMOVED FOR ALL CEILING MOUNTED EQUIPMENT AND DEVICES TO REMAIN EXISTING AS-IS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS. FAN 30. DUCTWORK/EQUIPMENT ARRANGEMENT(S) AND ROUTING(S) SHOWN ARE APPROXIMATE. VERIFY IN FIELD EXISTING CONDITIONS AND IUMIDITY PROVIDE ALL WORK AS REQUIRED TO AVOID CONFLICTS. NT LIQUID AMPS NS PER MINUTE NT RELIEF PIPING NT SUCTION STANDARD SYMBOLS EQUIPMENT ABBREVIATION TECTOR TAG NUMBER EXTENT OF REMOVAL TO THIS POINT ESSURE CONNECT TO EXISTING AT THIS POINT (#) REMOVAL NOTE DESIGNATION STEEL **(#)** NEW WORK NOTE DESIGNATION DRAWING TITLE SCALE: 1/4" = 1'-0" EEL TIC PRESSURE SCALE: 1/4" = 1'-0" SHEET NUMBER - X-X DOOR TERS LABORATORY LATORS SECTION OR DETAIL SHEET NUMBER -AIR VOLUME AMPER NUMBER ------

09/06/24 **ISSUE FOR PERMIT**  Cert. of Auth #24GA27932400

Mill Stell

MICHAEL S. GILLAN, PE

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ENGINEEF

ELEVATION

NORTH ARROW

DATUM POINT

REVISION

SHEET NUMBER ------





## GENERAL WORK NOTES:

- 1. PROVIDE WALL PENETRATIONS ABOVE CEILING AS NEEDED TO FACILITATE THE INSTALLATION OF NEW DUCTWORK.
- HVAC REMOVAL NOTES:
- DUCTWORK, RIGID DUCTWORK, AND ALL HANGERS AND ANCHORS BACK TO POINT INDICATED. RETAIN DUCTWORK CONNECTION FOR RE-USE UNDER NEW WORK.
- ALL ASSOCIATED APPURTENANCES. WHERE NEW WORK IS NOT UTILIZING THE EXISTING OPENING, PATCH PENETRATIONS TO MATCH EXISTING CONSTRUCTION AND RATING. COORDINATE PATCHWORK TIMEFRAME WITH OVERALL GENERAL CONTRACTOR PRIMING AND PAINTING OF ROOM.
- $\overline{3}$  DEMOLISH AND REMOVE EXISTING AIR DEVICE, ASSOCIATED FLEXIBLE DUCTWORK, RIGID DUCTWORK, AND ALL HANGERS AND ANCHORS BACK TO POINT INDICATED. CAP DUCTWORK, NOT REUSED UNDER NEW WORK.
- CONNECTION FOR RE-USE UNDER NEW WORK.

## HVAC NEW WORK NOTES:

- REMAINING FROM DEMOLITION WHERE INDICATED. SIZE TO MATCH EXISTING. PROVIDE AIR DEVICE, DAMPER/COLLAR, SUPPORTS/HANGERS,
- RECONNECT EXISTING OUTSIDE AIR DUCT TO NEW RETURN AIR DUCTWORK.
- PROVIDE NEW TRANSFER AIR GRILLE, SLEEVE, DUCTWORK, AND ALL ASSOCIATED APPURTENANCES.
- PROVIDE NEW AIR DEVICE, ALL ASSOCIATED APPURTENANCES, AND CONNECT TO EXISTING DUCTWORK CONNECTION REMAINING FROM DEMOLITION.
- 5 CONTRACTOR SHALL ADJUST OUTSIDE AIR DAMPER TO THE MINIMUM OPENING THAT WILL PROVIDE THE OUTSIDE AIR CFM AS INDICATED ON PLAN.
- REBALANCE EXHAUST TO 210 CFM.
- REBALANCE EXHAUST TO 230 CFM.
- PROVIDE 2HR DYNAMIC FIRE DAMPER, SIZE AS NOTED ON PLAN, IN ACCORDANCE WITH EXISTING FIRE RATED WALL/ FLOOR. REFER TO

## VENTILATION NOTES:

1. VENTILATION AS REQUIRED PER THE INTERNATIONAL MECHANICAL CODE (IMC) 2021 WITH NJ AMENDMENTS HAVE BEEN CALCULATED FOR THE CHANGE OF USE IN THESE SPACES. REFER TO VENTILATION SCHEDULE ON DRAWING H501. MECHANICAL CONTRACTOR SHALL REBALANCE EXISTING OUTSIDE AIR (OA) DAMPERS AND EXHAUST GRILLS TO CFM NOTED ON PLAN.



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<u>NOTE:</u> 1. PROVIDE FOR ALL CEILING TO WALL TRANSFER AIR GRILLES



ENTILATION SCHEDULE										
	(	CFM REQUIRED				CFM F	URNISHED			
FM/PERSON	CFM/FT <sup>2</sup>	EFFECTIVENESS	O/A	EXHAUST	SUPPLY	RETURN	EXHAUST	O/A		
5	0.06	0.8	29	-	500	500	-	29		
5	0.06	0.8	30	-	500	500	-	30		
-	0.12	0.8	10	-	50	50	-	10		
5	0.06	0.8	16	-	365	365	-	16		
-	0.12	0.8	5	-	50	50	-	5		
-	0.06	0.8	109	-	1,035	1,035	-	109		
5	0.06	0.8	29	-	500	270	230	29		
5	0.06	0.8	30	-	255	255	-	30		
5	0.06	0.8	26	-	200	200	-	26		
-	0.12	0.8	22	-	160	160	-	22		
5	0.06	0.8	31	-	270	270	-	31		
5	0.06	0.8	20	-	195	195	-	20		
5	0.06	0.8	81	-	765	555	210	81		
-	-	-	-	50	155	-	155	-		

				CE SCHE	DULE					
REF. NO.	ТҮРЕ	LOCATION	BLOW PATTERN	NECK SIZE	CFM	MAX PD [IN. W.G.]	MAX NECK VELOCITY [FPM]	BASIS OF DESIGN	MODEL	NOTES
А	SUPPLY DIFFUSER	CEILING	4 WAY	SEE PLANS	SEE PLANS	0.08	500	TITUS	TMS	(1)(2)(3)
В	RETURN DIFFUSER	WALL/CEILING	-	SEE PLANS	SEE PLANS	0.08	500	TITUS	300RL	(1)(3)
С	EXHAUST DIFFUSER	CEILING	-	SEE PLANS	SEE PLANS	0.08	500	TITUS	350RL	(1)(3)
GENERAL N	IOTES:									
1.	FINISH COLOR TO BE APPR	OVED BY THE PRO	FESSIONAL.							
2.	PROVIDE OPPOSED BLADE	BALANCING DAMPE	ER IN DEVICE, ADJU	STABLE FRO	M THE FRON	T FACE.				
3.	PROVIDE FINAL BOARDER/	MOUNTING WITH CE	ILING TYPE							





TRANSFER AIR GRILLE

NOTE: 1. PROVIDE FOR ALL CEILING TO CEILING TRANSFER AIR GRILLES.









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ELECTRICA	L LIGHTING SYMBOL LEG
	EXISTING 24' PENDANT MOUNTED LINEAR LIGHT FIXTU
	2'X4' LIGHT FIXTURE FLUSH MOUNTED IN DROPPED C HALF SHADING INDICATES A FIXTURE WITH INTEGRA
	2'X2' LIGHT FIXTURE FLUSH MOUNTED IN DROPPED O HALF SHADING INDICATES A FIXTURE WITH INTEGRA
S	SNAP TYPE LIGHT SWITCH
S <sub>D</sub> S <sub>D3</sub>	DIGITAL DIMMABLE LIGHT SWITCH REFER TO DETAIL 3-WAY DIGITAL DIMMABLE LIGHT SWITCH REFER TO I
S	CEILING MOUNTED DIGITAL LOW DUAL TECHNOLOGY SENSOR COORDINATED TO BE COMPATIBLE WITH TH THE LIGHTING CONTROL DETAIL 1/E601.
Es	CEILING MOUNTED DIGITAL PHOTO SENSOR. COORD LIGHTING CONTROL EQUIPMENT SHOWN ON THE LIG
WS	FLUSH WALL MOUNTED MANUAL ON/OFF LIGHTING C PROVIDE ACUITY CONTROLS CATALOG NUMBER WS) PART NUMBER THAT COMPLIES WITH ENERGY CODE
	EMERGENCY EXIT SIGNS SURFACE MOUNTED ON DR FACES. PROVIDE CHEVRONS WHERE INDICATED TO S
	EXISTING WALL MOUNTED BATTERY BACK UP LIGHT
RC	AUTOMATIC LIGHTING CONTROL ROOM CONTROLLEF INDICATED). PROVIDE WATTSTOPPER CATALOG NUM CONTROL GENERAL NOTES" IN ROOMS WHERE THIS
ELECTRICA	L POWER SYMBOL LEGE
	EXISTING ELECTRICAL POWER PANELBOARD
<sub>TR</sub> ¶₩ ¶C	20A, 125V CONVENIENCE DUPLEX OUTLET, MOUNTED "C" INDICATES A RECEPTACLE FLUSH MOUNTED IN D MOUNTED BACK BOX, COVER PLATE AND SURFACE M CEILING.
	20A, 125V QUADRUPLEX OUTLET, MOUNTED 18" AFF U "W" INDICATES THE REQUIREMENT FOR A SURFACE I FROM THE JUNCTION BOX UP TO THE DROPPED CEIL
$\bigcirc$	JUNCTION BOX WITH COVER
	EXISTING FLOOR MOUNTED RECEPTACLE AND DATA EXISTING FLOOR TO MATCH FINISH.
ELECTRICA	L DATA SYSTEMS SYMBC
O <sup>w</sup> O	BACK BOX AND COVER PLATE FOR FUTURE DATA OU TERMINATED WITH A BUSHING. "W" INDICATES THE R COVER PLATE AND SURFACE MOUNTED WIRE WAY F CEILING.
CS	EXISTING CLOCK AND PA BOX RECESSED INTO WALL
	EXISTING PA CALL SWITCH RECESSED INTO WALL.
	CAT-6A RATED DATA JACK AND CAT6A DATA CABLE T RACK PATCH PANEL LOCATED IN THE POWER AND DA THE COVERPLATE AS REQUIRED IN THE SPECIFICATI
	EXISTING SECURITY CAMERA EXISTING SECURITY MOTION SENSOR
CR	EXISTING DOOR ACCESS CARD READER
	EXISTING AUDIO VISUAL CONNECTIONS, SURFACE M MOUNTED RACE WAY.
면 <sub>w</sub> P <sub>c</sub> WAPc	SURFACE MOUNTED ON WALL. "C" INDICATED DEVICI PROTRUDES THROUGH DROPPED CEILING. EXISTING WIRELESS ACCESS POINT. TO BE REMOVE REINSTALLED ON THE CEILING AT A NEW LOCATION I WITH OWNER. MAINTAIN ITS EXISTING DATA CABLE F
ELECTRICA	L FIRE ALARM SYMBOL LI
S	SMOKE DETECTOR FLUSH MOUNTED TO DROPPED C FIRE ALARM SHOP DRAWINGS.
c F #cd	FIRE ALARM HORN STROBE & LIGHT, SURFACE MOUN DROPPED CEILING. COORDINATE THE EXACT LOCAT
<b>≥</b>	FIRE ALARM STROBE LIGHT, FLUSHMOUNTED IN A RECOORDINATE THE EXACT LOCATION WITH THE FIRE
Ē	FIRE ALARM PULL STATION SURFACE MOUNTED ON \ FIRE ALARM SHOP DRAWINGS.
NAC	FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT POW
$(\mathbf{H})$	EXISTING FIRE ALARM HEAT DETECTOR FLUSH MOUN
ELECTRICA	L WIRING SYMBOL LEGEN
	EXISTING ELECTRICAL AND DATA OUTLETS SURFACE
	HOME RUN - 2#12+1#12G IN 3/4"C UNO. CONNECT TO 20A CIRCUIT BREAKER AS INDICATED U.N.O.
	ELECTRICAL BRANCH CIRCUIT - 2#12+1#12G IN 3/4"C
	SEE CONTINUATION OF BRANCH CIRCUIT - 2#12+1#1
ELECTRICAL	GENERAL SYMBOLS
	EQUIPMENT SHOWN WITHIN THE BUILDING WITH DAS LINES IS EQUIPMENT EXISTING TO REMAIN
Φ	EQUIPMENT SHOWN WITH SOLID LINES INDICATES N REFER TO PLANS AND ADDITIONAL INFORMATION ON
#	NEW WORK NOTE DESIGNATION
(#)	
NUMBER SHEET NUMBER	X-X SCALE: 1/4" = 1'-0"

# **END**

URE

CEILING. L BATTERY BACK-UP

CEILING. L BATTERY BACK-UP

1/E601 FOR MORE INFORMATION DETAIL 1/E601 FOR MORE INFORMATION (ULTRASONIC AND PASSIVE INFRARED) OCCUPANCY HE DIGITAL LIGHTING CONTROL EQUIPMENT SHOWN ON

INATED TO BE COMPATIBLE WITH THE DIGITAL HTING CONTROL DETAIL 1/E601.

CONTROL SWITCH WITH VACANCY SENSOR. X-SA OR EQUAL. CONFIRM AND PROVIDE ACTUAL REQUIREMENTS.

ROPPED CEILING. SHADED AREAS INDICATE EXIT SIGN SHOW DIRECTION OF EGRESS EXIT.

WITH TWO LIGHT HEADS. REMOVAL

R FOR MANUAL ON/OFF/DIMMING (AND DAYLIGHT HARVESTING WHERE IBER LMRC-213 OR EQUAL THAT COMPLIES WITH THE "AUTOMATIC LIGHTING DEVICE IS BEING USED.

D 18" AFF UNO. "TR" INDICATES A TAMPER RESISTANT RECEPTACLE. ROPPED CEILING. "W" INDICATES THE REQUIREMENT FOR A SURFACE MOUNTED WIRE WAY FROM THE JUNCTION BOX UP TO THE DROPPED UNO. "TR" INDICATES A TAMPER RESISTANT RECEPTACLE.

MOUNTED BACK BOX, COVER PLATE AND SURFACE MOUNTED WIRE WAY

JACK BOX. REMOVAL WILL REQUIRE PATCHING THE

# L LEGEND:

JTLETS WITH 3/4" CONDUIT UP TO DROPPED CEILING, REQUIREMENT FOR A SURFACE MOUNTED BACK BOX FROM THE JUNCTION BOX UP TO THE DROPPED

TE MOUNTED 18" ABOVE FINISHED FLOOR. FOR EACH OUTLET. PROVIDE FERMINATED AT EACH END AND EXTENDED FROM THE JACK TO THE DATA ATA CLOSET IN THE NEW ADDITION. PROVIDE IDENTIFICATION LABELING ON ION

OUNTED ON WALL WITH BACK BOX AND SURFACE

DATA CONNECTORS. "W" INDICATES DEVICE IS E IS MOUNTED TO STRUCTURAL CEILING AND

D, CLEANED, STORED, DURING REMOVAL WORK AND DURING NEW WORK. COORDINATE NEW LOCATION FOR REUSE.

# EGEND

EILING. COORDINATE THE EXACT LOCATION WITH THE

NTED ON WALL. "C" INDICATES DEVICE FLUSH MOUNTED ON ION WITH THE FIRE ALARM SHOP DRAWINGS.

ECESSED DROPPED CEILING. ALARM SHOP DRAWINGS.

WALL.COORDINATE THE EXACT LOCATION WITH THE

/ER SUPPLY PANEL

NTED ON DROPPED CEILING.

# ND:

E MOUNTED ON WALL IN WIRE MOLD RACEWAY.

# EXISTING SPARE

U.N.O.

2G IN 3/4"C U.N.O.

SHED

EW OR REMOVAL. THE SYMBOL LEGEND

# **ABBREVIATIONS**

AMPERES ABOVE FINISHED FLOOR AFF AIC INTERRUPTING RATING OF EQUIPMENT CONDUIT CIRCUIT CKT GROUNDING CONDUCTOR MLO MAIN LUGS ONLY NEC NATIONAL ELECTRICAL CODE PH PHASE UNO UNLESS NOTED OTHERWISE VOLTAGE W WIRE

![](_page_12_Figure_38.jpeg)

# GENERAL REMOVAL NOTES APPLICABLE TO ALL REMOVAL DRAWINGS:

- 1. DISCONNECT AND REMOVE ALL OF THE POWER, FIRE ALARM SYSTEM, PUBLIC ADDRESS SYSTEM, AND CLOCK SYSTEM DEVICES SHOWN ON REMOVAL PLANS UNLESS NOTED OTHERWISE. REMOVE ALL ASSOCIATED BACKBOXES, JUNCTION BOXES, PULL BOXES, POWER WIRING, AND CONTROL WIRING FROM THE DEVICE BACK TO THE SOURCE.
- 2. THE OWNER RETAINS THE FIRST RIGHT TO KEEP ANY REMOVED EQUIPMENT. REVIEW THE DISPOSITION OF ALL EQUIPMENT WITH OWNER PRIOR TO REMOVAL.
- 3. QUANTITY OF EQUIPMENT SHOWN ON THE REMOVAL DRAWINGS IS INDICATIVE OF EXISTING QUANTITY AND LOCATION. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ACTUAL QUANTITIES OF EQUIPMENT TO BE REMOVED AND INCLUDE PROVISIONS IN THEIR BID.
- 4. PERFORM ALL REQUIRED PATCHING AND PAINTING AFTER REMOVAL AS REQUIRED TO RESTORE SURFACES TO MATCH SURROUNDING SURFACE FINISHES.
- 5. THE OWNER WILL REMOVE AND REINSTALL ALL MOVABLE EQUIPMENT AND FLOOR MOUNTED SHELVING UNO. REMOVE, STORE AND REINSTALL EXISTING BUILT-IN EQUIPMENT AS REQUIRED TO PERFORM THE WORK, UNLESS NOTED OTHERWISE.
- 6. PROVIDE ALL WORK AND COSTS ASSOCIATED WITH THE DISCONNECTION, REMOVAL, RELOCATION, AND DISPOSAL OF WIRING AND EQUIPMENT REQUIRED TO BE REMOVED. EQUIPMENT AND WIRING THAT IS REQUIRED TO BE REMOVED SHALL BE RETAINED, DISPOSED OF, AND REMOVED FROM THE SITE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES.

# GENERAL NOTES APPLICABLE TO ALL DRAWINGS:

- COORDINATE FINAL LOCATION OF ALL DEVICES WITH OWNER AND ARCHITECT WITH RESPECT TO MOUNTING HEIGHTS AND LOCATION OF EQUIPMENT, FURNITURE AND WALL FURNISHINGS. COORDINATE FINAL LOCATION SO AS NOT TO INTERFERE WITH EXHIBIT BOARDS, DRY MARKER BOARDS AND OTHER EXISTING OR NEW SURFACE MOUNTED ITEMS.
- 2. ALL 20A BRANCH CIRCUITS LONGER THAN 100 FEET SHALL BE MINIMUM WIRE SIZE 2#10AWG+1#12AWG.
- THE BASIS OF DESIGN LISTED MANUFACTURER DOES NOT INDICATE A PROPRIETARY SYSTEM, BUT IS INTENDED TO PROVIDE A LEVEL OF ACCEPTABLE QUALITY. REFER TO THE PROJECT SPECIFICATION MANUAL AND ASSOCIATED SECTION FOR EQUIPMENT MANUFACTURERS LIST. EQUAL SUBSTITUTIONS WILL BE REVIEWED AND ACCEPTED IF THEY MEET THE SAME LEVEL OF QUALITY AND ARE SUBMITTED IN ACCORDANCE WITH SPECIFICATION PROCEDURES.
- PROVIDE SURFACE MOUNTED RACEWAYS FOR ALL NEW OR RELOCATED WALL MOUNTED DEVICES SHOWN IN AREAS OF EXISTING 5 CONSTRUCTION.
- PROVIDE PIPE SLEEVES FOR INSTALLATION OF RACEWAYS AND CABLES THROUGH FIRE RATED WALLS AND CEILING SLABS. ALL CORRIDOR WALLS 6 AND CEILING SLABS SHALL BE ASSUMED TO BE 1-1/2 HOUR RATED. FOR ALL PENETRATIONS PROVIDE FIRE STOPPING USING A UL APPROVED ASSEMBLY FOR THE RESPECTIVE WALL OR SLAB CONSTRUCTION. SEE APPLICABLE DETAILS FOR REQUIREMENTS.
- 7. PERFORM ALL CUTTING AND PATCHING NECESSARY TO PERFORM WORK. MATCH EXISTING MATERIALS, FINISHES, FIRE RATINGS, PAINT COLORS, ETC. IN ALL AREAS OF PATCHING. 8. PROVIDE FIRE PROOFING AT PENETRATIONS OF FIRE-RATED ASSEMBLIES.
- 9. ALL WORK AND INSTALLED EQUIPMENT MUST COMPLY WITH THE NATIONAL ELECTRICAL CODE 2020 EDITION
- 10. REMOVE, STORE AND RE-INSTALL EXISTING CEILING SYSTEMS AS NECESSARY TO PERFORM WORK. NOTIFY OWNER OF ANY EXISTING DAMAGE TO CEILING TILE AND SUPPORTS PRIOR TO REMOVAL. REPLACE ANY TILES AND SUPPORTS DAMAGED AS A RESULT OF WORK. AMOUNT OF CEILING TO BE REMOVED IS AT CONTRACTOR'S DISCRETION. REINSTALL ALL REMOVED CEILING AT COMPLETION OF WORK. MAKE EVERY EFFORT TO MINIMIZE OPEN CEILINGS.
- 11. DRAWINGS INDICATING FIRE ALARM DEVICE PLACEMENT ARE FOR REFERENCE ONLY AND SHALL NOT SERVE AS A SUBSTITUTE FOR SHOP DRAWINGS WHEN APPLYING FOR PERMITS FOR AND PRIOR TO THE INSTALLATION OF SUCH DEVICES.
- 12. SYSTEM PROGRAMMING AND IDENTIFICATION LABELS FOR ALL SYSTEMS MUST USE THE OWNER'S ROOM NAME AND NUMBER AND NOT THE ROOM NAMES AND NUMBERS ON THE CONTRACT DOCUMENTS. MEET WITH THE OWNER TO REVIEW AND CONFIRM ROOM NAMES AND ROOM NUMBERS PRIOR TO LABELING SYSTEMS.
- 13. ELECTRICAL DRAWINGS ARE SCHEMATIC IN NATURE. PROVIDE OFFSETS AND FITTINGS AS REQUIRED TO ACCOMMODATE FIELD CONDITIONS AND ALL TRADE WORK BY OTHERS.
- 14. COORDINATE AND FIELD VERIFY ALL DIMENSIONS, SIZES, CLEARANCES AND LOCATION PRIOR TO THE START OF CONSTRUCTION, WHEN CONFLICTS ARISE, MAKE ANY NECESSARY CHANGES TO ROUTING OF CONDUIT & WIRING WITHOUT COMPROMISING THE INTEGRITY AND PERFORMANCE OF THE SYSTEM, AND AT NO ADDITIONAL COST TO THE OWNER.
- 15. ALL WORK SHALL COMPLY WITH THE STANDARDS OF THE AMERICAN INSURANCE ASSOCIATION, INDUSTRIAL RISK INSURANCE UNDERWRITERS (IRI), FACTORY MUTUAL (FW), OR THE APPLICABLE RATING BUREAU, THE NATIONAL ELECTRICAL CODE (NEC), AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL BUILDING CODES AND THE REQUIREMENTS OF THE PUBLIC UTILITY COMPANIES SERVING THE SITE.
- 16. ENSURE ALL WORK IS IN CONFORMANCE WITH ALL APPLICABLE BUILDING CODES. WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE LATEST EDITIONS OF THE APPLICABLE CONSTRUCTION CODE, AND ALL OTHER FEDERAL, STATE, AND LOCAL AGENCY REGULATIONS HAVING JURISDICTION OVER THIS PROJECT. IN THE EVENT OF ANY DISCREPANCIES BETWEEN AGENCY REQUIREMENTS, OBSERVE THE MORE STRINGENT OF REQUIREMENTS.
- 17. PROVIDE PROVISIONS FOR (5) ADDITIONAL DUPLEX RECEPTACLES WITH BACK BOXES AND COVERS, 50' OF ADDITIONAL (2)#12,(1)#12G IN 3/4" C, AND 100 FEET OF ADDITIONAL WIRE MOLD SURFACE MOUNTED RACEWAY.

# **GENERAL FIRE ALARM WORK NOTES**

- 1. FOR NEW DEVICES BELOW CEILINGS IN OCCUPIED SPACES THAT ARE REQUIRED TO BE INSTALLED ON EXISTING WALLS, PROVIDE WIRING IN SURFACE MOUNTED WIREMOLD RACEWAYS PAINTED TO MATCH THE WALL, AND PROVIDE FITTED BACKBOXES (FITTED = COLOR AND SIZE MATCHED TO THE DIMENSIONS OF THE FIRE ALARM DEVICE, LISTED BY THE FIRE ALARM EQUIPMENT MANUFACTURER TO BE USED WITH THE DEVICE). EXPOSED CONDUIT AND NON-FITTED BACKBOXES ARE NOT ACCEPTABLE. CONCEAL ALL REMAINING WIRING ABOVE ACCESSIBLE CEILINGS. SEE GENERAL FIRE ALARM NOTE 3 FOR EXCEPTIONS.
- 2. IDENTIFICATION LABELS TO BE USED/MADE FOR THE FIRE ALARM SYSTEM ADDRESSES MUST USE THE OWNER'S ROOM NUMBERS AND ROOM NAMES, NOT THE NUMBERS OR NAMES ON THE CONSTRUCTION DOCUMENTS. MEET WITH OWNER TO REVIEW AND CONFIRM ROOM NUMBERS AND NAMES PRIOR TO LABELING SYSTEMS.
- 3. THE EXISTING FIRE ALARM SYSTEM IS A HONEYWELL SK-5208 CONVENTIONAL ZONED SYSTEM MAINTAINED BY "B-SAFE SECURITY." FOR REQUIREMENTS CONTACT MR. DANNY ANNO TELEPHONE 856-524-2931). ALL NEW FIRE ALARM COMPONENTS PROVIDED AS A PART OF THIS PROJECT SHALL BE FULLY COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM.
- 4. COORDINATE WITH THE FIRE ALARM SYSTEM VENDOR AND PROVIDE ALL REQUIRED WIRING, EQUIPMENT, LABOR, PROGRAMMING, AND MATERIALS TO REMOVE EXISTING FIRE ALARM DEVICES INDICATED TO BE REMOVED AND PROVIDE NEW FIRE ALARM SYSTEM DEVICES AS INDICATED FOR A FULLY FUNCTIONAL SYSTEM.
- 5. PROVIDE TEMPORARY SUPPORT AND PROTECTION OF EXISTING CEILING MOUNTED FIRE ALARM SYSTEM SMOKE AND HEAT DETECTORS AND WIRING DURING CONSTRUCTION.
- 6. THIS PROJECT INCLUDES, BUT IS NOT LIMITED TO REQUIREMENTS FOR THE REMOVAL OF FIRE ALARM DEVICES AS SHOWN ON THE REMOVAL PLAN AND THE INSTALLATION OF NEW FIRE ALARM DEVICES AS SHOWN ON THE SYSTEMS PLAN, INCLUDING NEW FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLY PANEL, SMOKE DETECTORS, HORN STROBES AND STROBES.
- 7. SEE SPECIFICATION 283111 FOR ADDITIONAL FIRE ALARM SYSTEM REQUIREMENTS.
- 8. PROVIDE SEPARATE SURFACE MOUNTED WIREMOLD RACEWAY (PAINTED TO MATCH THE WALL FINISH) FOR ALL FIRE ALARM DEVICES EXTENDING FROM THE DEVICES AND UP TO ABOVE THE CEILING.

![](_page_12_Figure_73.jpeg)

![](_page_12_Picture_74.jpeg)

![](_page_13_Figure_0.jpeg)

## **REMOVAL NOTES:**

- FUNCTIONALITY.

![](_page_14_Figure_0.jpeg)

![](_page_14_Figure_4.jpeg)

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![](_page_15_Figure_0.jpeg)

# NEW WORK NOTES:

REINSTALL CEILING MOUNTED WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH OWNER. REFER TO DRAWLING E101 REMOVAL NOTE #2.

![](_page_15_Picture_4.jpeg)

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![](_page_16_Figure_0.jpeg)

## NEW WORK NOTES:

![](_page_17_Figure_0.jpeg)

![](_page_17_Figure_1.jpeg)

\_\_\_\_\_

	SCHEDULE FOR EXISTING ELECTRICAL PANEL						CPD				GENE	IERAL PANEL DATA						AIC:	22K							
ES S											VOLT:	208/120V, 3PH, 4W						MOUNT: SURFACE		ES						
OT												125A	jA N		MCB:	100						OT				
ž	LOAD SERVED	COND	GRD	GRD	WI	RE	KVA	BKR	R CKT	PHASE LO		DAD	CKT	BKR	KVA	COND	GRD	WI	RE			LOAD SERVED	ž			
			OILD	SIZE	NO.	1	SIZE	No.	А	В	С	No.	SIZE			OILD	SIZE	NO.								
1	1-G RECP. ART ROOM						20	1	1.1			2	20	1.1	3/4"	#12	#12	2	SUPT.106 & SUPT. ASST. 104 RE		r. ASST. 104 RECI	P. 2				
2	OFFICE 106 RECEP.	3/4"	#12	#12	2	0.9	20	3		1.6		4	20	0.7	3/4"	#12	#12	2	CURR. DIRECTOR RECEP.		CTOR RECEP.	2				
2	SECRETARY DESK RECEP.	3/4"	#12	#12	2	1.1	20	5			2.2	6	20	1.1	3/4"	#12	#12	2	BUS. ADMIN. RECEP.		IIN. RECEP.	2				
2	ROOMS 111, 112, & 113 RECP.	3/4"	#12	#12	2	1.1	20	7	2.2			8	20	1.1	3/4"	#12	#12	2	PAYROLL 110 RECEPTACLES		RECEPTACLES	2				
1	DOOR KEY SYSTEM						20	9		1.0		10	20	1.0	3/4"	#12	#12	2	FIRE ALARM NAC PANEL IN STOR.		113 2					
2	ADMIN SUITE 101 RECEPTS	3/4"	#12	#12	2	0.5	20	11			0.5	12	20													
							20	13	0.0			14	20						LIBRARY ROOFTOP RECP.		OFTOP RECP.	1				
							20	15		0.0		16	20							DOO	R FOB	1				
2	ADMIN SUITE 101 RECEPTS	3/4"	#12	#12	2	0.7	20	17			0.7	18	40							1						
											30	19	0.0			20	40									
1	TVSS						30	21		0.0		22								SP	ACE					
							JF	23			0.0	24								SP	ACE					
LOC	CATION: ELECTRICAL ROOM E1								3.2	2.6	3.4	PHAS	E KVA													
NOTES 9.3 TOTAL KVA																										
1.	EXISTING BRANCH CIRCUIT.																									
2. PROVIDE NEW CIRCUIT BREAKER AND UPDATE SCHEDULE AS SHOWN.																										
3.																										
4.	4.																									

LIGHTING FIXTURE SCHEDULE SEE SPECIFICATION 265119 FOR LIGHT FIXTURE REQUIREMENTS											
MODEL LAMPING WATTAGE LUMENS C		CRI	COLOR TEMP	DESCRIPTION	VOLT	MOUNTING HEIGHT	NOTES				
PHILIPS DAY-BRITE 2FGXG38L840- 4-RS-UNV-DIM	LED	27	3800	80	4000K	RECESSED 2'x4' 120 CEII ARCHITECTURAL		CEILING	_		
PHILIPS DAY-BRITE 2FGXG48L840- 4-RS-UNV-DIM	LED	36	4800	80	4000K	RECESSED 2'x4' ARCHITECTURAL	120	CEILING	-		
PHILIPS DAY-BRITE 2FGXG54L840- 4-RS-UNV-DIM	LED	41	5400	80	4000K	RECESSED 2'x4' ARCHITECTURAL	120	CEILING	-		
PHILIPS DAY-BRITE 2FGXG74L840- 4-RS-UNV-DIM	LED	56	7400	80	4000K	RECESSED 2'x4' ARCHITECTURAL	120	CEILING	-		
PHILIPS DAY-BRITE 2FGXG74L840-4-RS -UNV-DIM-BSL10LST	LED	56	7400	80	4000K	RECESSED 2'x4' ARCHITECTURAL	120	CEILING	WITH 10W SELF-TESTING BATTER PACK		
PHILIPS DAY-BRITE 2FGXG30L840- 2-RS-UNV-DIM	LED	21.9	3000	80	4000K	RECESSED 2'x2' ARCHITECTURAL	120	CEILING	-		
PHILIPS DAY-BRITE 2FGXG45L840- 2-RS-UNV-DIM	LED	34	4500	80	4000K	RECESSED 2'x2' ARCHITECTURAL	120	CEILING	-		
PHILIPS DAY-BRITE 2FGXG54L840- 2-RS-UNV-DIM	LED	43.2	5400	80	4000K	RECESSED 2'x2' ARCHITECTURAL	120	CEILING	-		
PHILIPS DAY-BRITE 2FGXG54L840-2-RS -UNV-DIM-BSL10LST	LED	43.2	5400	80	4000K	RECESSED 2'x2' ARCHITECTURAL	120	CEILING	WITH 10W SELF-TESTING BATTER PACK		
MULE LIGHTING RMX-U-R-W-EM	LED	-	NA	NA	NA	SURFACE MOUNTED	120	CEILING	WITH 90 MINUTE BATTERY BACKUP		

![](_page_17_Picture_6.jpeg)

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