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GENERAL

T0.00 TITLE SHEET

ARCHITECTURAL

0.00	ARCHITECTURAL INFORMATION
0.14	LEVEL 04 EGRESS FLOOR PLAN
0.20	TYPICAL BARRIER FREE STANDARDS
0.22	TYPICAL MOUNTING HEIGHTS & DETAILS
0.30	PARTITION TYPES & DETAILS
\ 0.34	UL ASSEMBLIES - PENETRATION FIRESTOPPING
D1.04	LEVEL 04 DEMOLITION PLAN
1.04	LEVEL 04 FLOOR PLAN
2.04	LEVEL 04 REFLECTED CEILING PLAN
2.10	CEILING DETAILS
7.00	DOOR SCHEDULES AND DOOR/FRAME TYPES
8.00	INTERIOR ELEVATIONS
8.01	INTERIOR ELEVATIONS
8.02	INTERIOR ELEVATIONS
9.20	LAB CASEWORK ELEVATIONS & DETAILS
10.04	LEVEL 04 FINISH PLAN
10.14	FINISH SCHEDULE AND DETAILS
10.24	LEVEL 04 FURNITURE PLAN
11.00	EQUIPMENT, ACCESSORY, AND FURNITURE SCHE

DULES

RowanUniversity

ROWAN UNIVERSITY

CENTER FOR NEURAL INFLAMMATION

401 BROADWAY, CAMDEN, NJ 08103

INTERIOR RENOVATION OF AN EXISTING 4TH FLOOR TEACHING LABORATORY TO ACCOMODATE A NEW NEUROSCIENCE LABORATORY. LAYOUT TO PROVIDE SPACE FOR EXPERIMENTATION AND RESEARCH, AS WELL AS OFFICE AND WORK SPACE FOR UNIVERSITY STAFF.

DRAWING LIST

FIRE PROTECTION

4TH FLOOR FIRE PROTECTION - DEMOLITION PLAN 4TH FLOOR FIRE PROTECTION - NEW WORK PLAN

PLUMBING

PD101	4TH FLOOR PLUMBING - DRAINAGE - DEMOLITION PLAN
PD102	4TH FLOOR PLUMBING - SUPPLY/GAS - DEMOLITION PLAN
P101	4TH FLOOR PLUMBING - DRAINAGE - NEW WORK PLAN
P102	4TH FLOOR PLUMBING - DOMESTIC SUPPLY - NEW WORK PLAN
P103	4TH FLOOR PLUMBING - LAB GAS - NEW WORK PLAN
P501	PLUMBING SCHEDULES, DETAILS AND DIAGRAMS
P601	PLUMBING DETAILS
P701	PLUMBING RISER DIAGRAMS
P702	PLUMBING RISER DIAGRAMS
P703	PLUMBING RISER DIAGRAMS
P704	PLUMBING RISER DIAGRAMS

MECHANICAL

MPE100	LEGENDS, NOTES, ABBREVIATIONS & DRAWING LIST
MPE101	COMCHECK
MD101	4TH FLOOR MECHANICAL - DUCTWORK - DEMOLITION PLAN
MD102	4TH FLOOR MECHANICAL - PIPING - DEMOLITION PLAN
M101	4TH FLOOR MECHANICAL - DUCTWORK - NEW WORK PLAN
M102	4TH FLOOR MECHANICAL - PIPING - NEW WORK PLAN
M103	MECHANICAL SCHEDULES
M104	MECHANICAL DETAILS
M105	MECHANICAL AIRFLOW DIAGRAM
M106	MECHANICAL CONTROLS

ELECTRICAL

ED100	4TH FLOOR ELECTRICAL - DEMOLITION PLAN
E100	4TH FLOOR POWER - NEW WORK PLAN
E101	4TH FLOOR LIGHTING - NEW WORK PLAN
E102	4TH FLOOR FIRE ALARM - NEW WORK PLAN
E103	LIGHTING CONTROLS AND DETAILS
E104	SCHEDULES & SLDs
E105	PANEL SCHEDULES







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	ABBREV	ΊΑΤΙΟ	NS	SYMBO	_ LEGEND
GENER	AL NOTES:			GENERAL NOTES:	
•	ABBREVIATIONS ARE BASED ON TI	HE PUBLISHED	STANDARDS IN THE U.S.	ALL SYMBOLS SHOWN ON THIS DROJECT	SHEET MIGHT NOT BE USED
•	CERTAIN COMMON ABBREVIATION	IS MAY NOT BE	SHOWN.	PROJECT.	PEAR ON OTHER SHEETS IN
£	CENTERLINE	JAN JT	JANITOR JOINT		DOOR IDENTIFICATION
ACS PNL ACT AD AFF	ACCESS PANEL ACOUSTIC CEILING TILE AREA DRAIN ABOVE FINISHED FLOOR	KP KO	KICK PLATE KNOCKOUT	d 1-101 ₺	
ADJ ALUM	ADJUSTABLE, ADJACENT ALUMINUM	L LAB	LENGTH, LONG	$\langle W215 \rangle \langle W2 \rangle \langle L2 \rangle$	WINDOW OR LOUVER TYP
ALT APPROX	ALTERNATE APPROXIMATE				STOREFRONT OR
ARCH AUTO	ARCHITECT AUTOMATIC	LPT	LOW POINT LIGHT		CURTAIN WALL TYPE
BEJ	BRICK EXPANSION JOINT	LT WT	LIGHTWEIGHT		
BD BLDG	BOARD BUILDING	М	MULTI-OUTLET	A1	PARTITION TYPE
BLW	BELOW	M. C'S MATL	MASONRY COURSE MATERIAL		(REFER TO PARTITION TYPE SHEET)
BOS	BOTTOM OF STEEL	MAS MAX	MASONRY MAXIMUM		
BRG	BEARING BLIMPER BAIL	MECH MFR	MECHANICAL MANUFACTURER		
BR. C'S	BRICK COURSE	MH MIN	MANHOLE MINIMUM		G2 GLAZING TYPE
CAB	CABINET	MISC MO	MISCELLANEOUS MASONRY OPENING	EQUIPMENT	
CB CEM	CORNER BEAD CEMENT	MP MTD	MOP PLATE MOUNTED		<u>/3</u> REVISION TAG
CCT CG	CUBICLE CURTAIN TRACK CORNER GUARD	MTL	METAL		
CI CIP	CAST IRON CAST IN PLACE	N NA	NORTH, NORMAL NOT APPLICABLE	(22) KEY NOTE	(D15) DEMOLITION N
CJ	CONSTRUCTION JOINT, CONTROL JOINT	NIC NO	NOT IN CONTRACT NUMBER		
CT CLG	CERAMIC TILE CEILING	NOM NTS	NOMINAL NOT TO SCALE	DETAIL #	
CLO COL	CLOSET COLUMN			A6.01 SHEET #	DETAIL REFERENCE
CONC	CONCRETE		OVERALL ON CENTER		
CU	CUBIC	OFF	OUTSIDE DIAMETER/DIM. OFFICE	DETAIL #	
D	DATA	OPH	OVERHEAD OPPOSITE HAND	A6.01 SHEET #	DETAIL REFERENCE
	DOUBLE DEPARTMENT	OPNG OPP	OPENING OPPOSITE		
DET	DETAIL DRINKING FOUNTAIN	02	OUNCE		
DIA DIM	DIAMETER DIMENSION	PVG PCC	PAVING PRECAST CONCRETE	A3.10	SECTION REFERENCE
DISP DMPF	DISPENSER DAMPPROOFING	PLAM PLBG	PLASTIC LAMINATE PLUMBING		
DR DWG	DOOR DRAWING	PLYWD PR	PLYWOOD PAIR, PIPE RAIL	3 - DETAIL #	
DWGS DWR	DRAWINGS DRAWER	PT PTN	PAINT PARTITION		
F	EAST EMERGENCY POWER	PV		(A3.01 - SHEET #	ELEVATION REFERENCE
EA FI	EACH ELEVATION	QT P			
		RD	ROAD, ROOF DRAIN	1 - DETAIL #	
EMER	EMERGENCY	REINF	REINFORCED		
ENCL		REQD	REVISION	4 A3.01 2	ELEVATION REFERENCE
EQ		RL RM	ROOF LEADER ROOM	3 SHEET #	
EQUIP EWC	ELECTRIC WATER COOLER	RO	ROUGH OPENING		
EAP EJ	EXPANSION, EXPOSED EXPANSION JOINT	S SAN	SOUTH SANITARY		
EXST	EXTERIOR	SC SCHED	SOILD CORE SCHEDULE		ROOM IDENTIFICATION
FA	FIRE ALARM	SECT SFRM	SECTION SPRAY FIRE RESISTIVE		
FC BRK FD	FACE BRICK FLOOR DRAIN	SHT	MATERIAL SHEET		
FDTN FE	FOUNDATION FIRE EXTINGUISHER	SIM SPEC	SIMILAR SPECIFICATION		CEILING IDENTIFICATION
FEC FHC	FIRE EXTINGUISHER CABINET FIRE HOSE CABINET	SPKR SQ	SPEAKER SQUARE		
FIN FLR	FINISH FLOOR	SST STA	STAINLESS STEEL STATION		
FLUOR FOC	FLUORESCENT FACE OF CONCRETE	STD STOR	STANDARD STORAGE	ROOM - ROOM NAME	
FOS FOW	FACE OF STUD FACE OF WALL	STRUCT STRUCT STL	STRUCTURAL STRUCTURAL STEEL		FINISH IDENTIFICATION
FP FR	FIREPROOF, FIRE PROTECTION FRAME	SUSP SYMM	SUSPENDED SYMMETRICAL	BASE FINISH	
FS FSH	FULL SIZE FIRE SPRINKLER HEAD	SYS	SYSTEM		
fT FT	FIRE TREATED FOOT, FEET	T TEI			
FTG FURG	FOOTING			₩	DATUM / WORKPOINT
FUT	FUTURE	THK	THICKNESS	\frown	\frown
G	GROUND	TOC	TOP OF CONCRETE	(A)	(EXA)
GA GC	GAUGE GENERAL CONTRACTOR	TOP	TOP OF PAVEMENT TOP OF STEEL		
GALV GL	GALVANIZED GLASS	TOW TV	TELEVISION	DESIGNATION	GRID DESIGNATION
GYP BD	GYPSUM WALLBUARD	ITP		11	
H HB	HIGH HOSE BIBB	UL	UNDERWRITERS LABORATORIES		
HC HDW	HOLLOW CORE HARDWARE	UNFIN UNO	UNFINISH UNLESS NOTED OTHERWISE		
HDWD HT	HARDWOOD HEIGHT, HIGH	VCT	VINYL COMPOSITION TILF	ę	DIMENSION
HM HNDRL	HOLLOW METAL HANDRAIL	VERT VIF	VERTICAL VERIFY IN FIFI D	TA	
HORIZ HP	HORIZONTAL HIGH POINT	VTR	VENT THROUGH ROOF		
HR HVAC	HOUR HEATING. VENTILATION	W W	WEST, WIDE		
	AND AIR CONDITIONING	W/O	WITHOUT		M/70/11/10/-
ID	INSIDE DIAMETER/DIMENSION	WD WP	WATERPROOF,		MATCH LINE
	INGLUDED INSULATION	WT	WEIGHT		CONTRACT LIMIT LINE
in l' INV	INTERIOR INVERT	WWR	WELDED WIRE REINFORCEMENT		

							CO
	PROJECT DESCRIPTION: INTERIOR RENOVATION OF AN EXISTING A NEUROSCIENCE LABORATORY. LAYOUT T OFFICE AND WORK SPACE FOR UNIVERSI	4TH FLOOR TEACHING LAI O PROVIDE SPACE FOR E ITY STAFF.	BORATORY TO AC EXPERIMENTATIO	COMODATE A NE N AND RESEARCI	EW H, AS WELL AS	INTERIOR EXIT STAIRWAYS A SHALL COMPLY WITH THE RE SHALL BE ENCLOSED AND LE THE EXTERIOR OF THE BUILD SECTION 1024, EXCEPT AS PE NOT BE USED FOR ANY PURF	ND RAMPS SER QUIREMENTS C AD DIRECTLY T DING WITH AN E ERMITTED IN SE POSE OTHER TH
	APPLICABLE CODES:		(IT & 0.0F.0.0 OT &				
	NEW JERSEY UNIFORM CONSTRUCTION (2021 INTERNATIONAL BUILDING CODE-NJ BARRIER FREE REQUIRMENTS PER - ICC/. NFPA - LIFE SAFTEY CODE (NFPA 101-2012 2021 NATIONAL STANDARD PLUMBING CC 2021 INTERNATIONAL FUEL GAS CODE (N. 2021 INTERNATIONAL MECHANICAL CODE	CODE (NJUCC 5:23 SUBCH EDITION (NJAC 5:23-3.14) ANSI A117.1 2009 (CHAPTE 2) DDE (NJAC 5:23-3.15) JAC 5:23-3.22)	APTERS 1-12) ER 11 OF IBC/2021	& NJAC 5:23-7.2)		707.3.3 ENCLOSURES FOR EX SHAFT ENCLOSURES SHALL I CONNECTING FOUR STORIES FOUR STORIES. THE NUMBEF ANY BASEMENTS BUT NOT AI RATING NOT LESS THAN THE ENCLOSURES SHALL MEET T	AVE A FIRE-RE OR MORE, AND OF STORIES C MY MEZZANINES FLOOR ASSEME HE REQUIREME
ING	AIR CONDITIONING AND VENTILATION SYS 2020 NATIONAL ELECTRICAL CODE (NJAC INTERNATIONAL ENERGY CONSERVATION INSTALLATION OF SPRINKLER SYSTEMS N	NINGAC 5.25-5.20) STEMS (NFPA 90A-2012) 5:23-3.16) N CODE - ASHRAE 90.1-201 NFPA 13-2019	16 (NJAC 5:23-3.18)		707.3.4 EXIT PASSAGEWAY PL EXIT PASSAGEWAY ENCLOSU 1-HOUR FIRE-RESISTANCE RA	ER SECTION 102 IRES SHALL HAV ATING, AND NOT
ATION	NATIONAL FIRE ALARM CODE NFPA 72-20 ELEVATOR SUBCODE (NJAC 5:23-12) NEW JERSEY REHABILITATION SUB-CODE FGI - 2022 EDITION - GUIDELINES FOR DES	19 E SUB CHAPTER NJAC 5:23 SIGN & CONSTRUCTION O	3-6.6, (NJUCC-CHA F HOSPITALS	PTER 6)		ACCORDANCE WITH SECTION WITH SECTION 711, OR BOTH	N 707 OR HORIZ
DR	NJAC DEPARTMENT OF HEALTH STANDAR	RDS FOR LICENSURE CHA	PTER 8:43G			BETWEEN FIRE AREAS PER T	ABLE 707.3.10:
	NEW JERSEY DEPARTMENT OF COMMUN	TY AFFAIRS				H-1, H-2 F-1, H-3, S-1 A, B, E, F-2, H-4, H-5, I, M, I	- R, S-2
	EGRESS CALCULATIONS: REFER TO EGRESS PLANS (SERIES A0.10) FOR ADDITIONAL INFORM	MATION.			709.3 FIRE RESISTANCE RATI A 1 HOUR FIRE-RESISTANCE	<u>NG:</u> RATING IS REQI
	IBC CHAPTER 3 - USE AND OCC	CUPANCY CLASSIFI	CATION:			EXCEPTION: SMOKE BA BUILDINGS.	ARRIERS CONST
D ON THIS	IBC CHAPTER 5 - GENERAL BU	ILDING HEIGHTS AN	ND AREAS:			SHAFT ENCLOSURES PER IB	C-NJ 713.4 AND E
THIS	ALLOWABLE HEIGHT AND NUMBER OF ST	ORIES PER TABLE 504.3 (S	S) & 504.4 (S):			1 TO 4 OR M	93 ORE
	USE: <u>CONSTRU</u> A.B. MECHANICAL.	CTION TYPE: H	IEIGHT (FEET):	/ <u>STORIES</u>	<u>(#):</u>	715.3 FIRE TEST CRITERIA:	
	A,B, MECHANICAL	IB	16'-0" 16'-0"	/ 1 / 2		FIRE-RESISTANT JOINT SYSTI ASTM E1966 OR UL 2079. NON EXPOSED TO THE FURNACE,	EMS SHALL BE T ISYMMETRICAL AND THE ASSIG
ΡE	B, MECHANICAL A,B, MECHANICAL A,B, MECHANICAL	IB IB	16'-0" 16'-0" 16'-0"	/ 3 / 4 / 5		DURATION OBTAINED FROM THE WALL WAS TESTED WITH ACCEPTANCE OF THE BUILDI OPPOSITE SIDE.	THE TWO TESTS THE LEAST FIR NG OFFICIAL, TH
	A,B, MECHANICAL, LOCKER ROOM B, MECHANICAL	IB	16'-0" 22'-0"	/ 6 / 7		EXCEPTION: FOR EXTE FT THE JOINT SYSTEM	RIOR WALLS W/ SHALL ONLY BE
	PROPOSED NUMBER OF BUILDING STORI FROM GRADE PLANE.	<u>ES:</u>				MARKING FIRE-RATED GLAZI	NG ASSEMBLIES
_	<u>EXISTING:</u> 7	<u>NEW:</u> 0	<u>TOTAL PROPOSE</u> 0	<u>D:</u>		FIRE TEST STANDARD: ASTM E119 OR UL 263 ASTM E119 OR UL 263	<u>MARK</u> W FC
5	PROPOSED BUILDING HEIGHT PER IBC-N. FROM GRADE PLANE TO AVERAGE HEIGH	I CHAPTER 2 DEFINITION: IT OF HIGHEST ROOF.				NFPA 257 OR UL 9	OH D
i	<u>EXISTING:</u> 129'-4"	<u>NEW:</u> 0'-0"	TOTAL PROPOSE 0'-0"	<u>D:</u>		10C	H T
ΙΟΤΕ	VOLUME CALCULATION PER NJAC 5:23-2.2	<u>28(c):</u>				-	XXX
	<u>AREA:</u> FIRST FLOOR	<u>FLOOR AREA (SF):</u> 39,485	<u>HEIGHT (</u> 16	<u>FT):</u> <u>VC</u>	DLUME (CF): 631,760	OPENING FIRE PROTECTION	ASSEMBLIES, R
	SECOND FLOOR THIRD FLOOR FOURTH FLOOR	28,860 25,700 26,045	16 16 16		461,760 411,200 416,720	TYPE OF ASSEMBLY:	<u>WALL RATING</u> 4 HR
	FIFTH FLOOR SIXTH FLOOR SEVENTH FLOOR	26,045 23,930 20,855	16 16 20		416,720 382,880 417,100 3.138.140	FIRE WALLS / BARRIERS W/ REQ'D RATING >1HR	3 HR 2 HR 1-1/2 HR
	IBC CHAPTER 6 - TYPES OF CO	NSTRUCTION:			-, - , -	HORIZONTAL EXITS IN FIRE	2 HR 4 HR
	FIRE-RESISTANCE RATING REQUIREMEN	IS FOR TYPE I-B CONSTRU	UCTION FOR BUIL	DING ELEMENTS	PER TABLE 601:	FIRE BARRIERS W/ 1 HR RATING	3 HR 1 HR
	BUILDING ELEMENT:			<u>FIRE RESISTA</u> 2 HO	NCE RATING:		1 HR 1 HR
	BEARING WALLS: EXTERIOR			2 HO	URS	OTHER FIRE PARTITIONS	0.5 HR 1 HR
	INTERIOR NONBEARING WALLS & PARTITIONS: EXTERIOR			2 HO 1 HO	URS		3 HR
	INTERIOR FLOOR CONSTRUCTION & ASSOCIATED S ROOF CONSTRUCTION & ASSOCIATED SE	ECONDARY MEMBERS		0 HO 2 HO 1 HO	URS URS URS	EXTERIOR WALLS	2 HR 1 HR
	IBC CHAPTER 7 - FIRE AND SMO	OKE PROTECTION I	FEATURES:			SMOKE BARRIERS	1 HR
	FIRE-RESISTANCE RATINGS FOR EXTERIO	DR WALL PER IBC-NJ 705.5			RATING	OPENING FIRE PROTECTION	ASSEMBLIES, R.
	X < 5' 5' = < X < 10'	IB IB	<u></u>	BUSINESS BUSINESS	1 HOURS	TYPE OF ASSEMBLY:	WALL RATING
	$10^{\circ} = < X < 30^{\circ}$ $X > = 30^{\circ}$			BUSINESS	0 HOURS	FIRE WALLS / BARRIERS W/ REQ'D RATING >1HR	4 HR 3 HR 2 HR
	DISTANCE THAT OPENINGS IN AN INTERIO	<u>ER SECTION 705.8.6:</u> DR EXIST STAIRWAYS EXT	<u>FERIOR WALL,</u>			SHAFTS, INTERIOR STAIRWAYS/RAMPS	1-1/2 HR 2 HR
	<u>VERTICALLY ABOVE A</u> LESS THAN 15 FEET O	<u>N ADJACENT ROOF:</u> I 15 FEET R MORE		<u>RAT</u> 3/4 H0 0 H0	<u>ING:</u> DURS URS	HORIZONTAL EXITS IN FIRE WALLS	4 HR 3 HR
	EXCEPTION 1, OPENING PROTECTIVES AF	RE NOT REQUIRED IF THE	FOLLOWING IS M	ET:		FIRE BARRIERS W/ 1 HR RATING OTHER FIRE BARRIERS	1 HR 1 HR
	ELEMENTS EXPOSED TO OPENIN ROOF ASSEMBLY ROOF SUPPORTING STRUCTURE	<u>G:</u> <u>RAT</u> 1 HC E 1 HC	<u>ING:</u> DUR DUR	<u>HORIZONTAI</u> FOR 10 FOR ENTIRE LE	<u>_ DISTANCE:</u>) FEET ENGTH & SPAN	CORRIDOR WALLS OTHER FIRE PARTITIONS	1 HR 0.5 HR 1 HR 0.5 HR
	EXCEPTION 2, OPENING PROTECTIVES AF	RE NOT REQUIRED IF THE	FOLLOWING IS M	ET:			3 HR
	THE AGGREGATE WIDTH OF OPENINGS A THE WALL. OPENINGS MUST BE PROTEC	T ANY FLOOR LEVEL SHAI TED IN ACCORDANCE WIT	LL NOT EXCEED 2 TH SECTION 716.5	5 PERCENT OF T	HE LENGTH OF	EXTERIOR WALLS	2 HR 1 HR
	FIRE-RESISTANCE RATING FOR FIRE WAL	LS PER TABLE 706.4:					
	<u>GROUP:</u> A, B, E, H-4, I, R-1, R-2 F-1, H-3, H-5, M, S-1 H-1, H-2 F-2, S-2, R-3, R-4		<u>FIRE RESIS</u>	TANCE RATING: 3 HR 3 HR 4 HR 2 HR		 (a) TWO DOORS, EACH W/ A F SAME OPENING IN A FIRE WA (b) FIRE RESISTANCE RATED BE PERMITTED IN THE MAX S (c) UNDER THE COLUMN HEA RESISTANCE RATING OF THE (d) SEE SECTION 746 3 5 4 3 4 	GLAZING TESTE IZE TESTED. DING "RATED GI GLAZING, NOT
	707.3.2 INTERIOR EXIT STAIRWAY AND RA	MP CONSTRUCTION PER	<u>SECTION 1023.1:</u>			(e) SEE SECTION 716.1.2.2.1 A NP = NOT PERMITTED	ND TABLE 716.1

DDE ANALYSIS

RVING AS AN EXIT COMPONENT IN A MEANS OF EGRESS SYSTE OF THIS SECTION. INTERIOR EXIT STAIRWAYS AND RAMPS TO THE EXTERIOR OF THE BUILDING OR SHALL BE EXTENDED T EXIT PASSAGEWAY CONFORMING TO THE REQUIREMENTS OF SECTION 1028.1. AN INTERIOR EXIT STAIRWAY OR RAMP SHALL HAN AS A MEANS OF EGRESS AND A CIRCULATION PATH.

ARWAYS PER SECTION 713.4:

SISTANCE RATING OF NOT LESS THAN 2 HOURS WHERE O NOT LESS THAN 1 HOUR WHERE CONNECTING LESS THAN CONNECTED BY THE SHAFT ENCLOSURE SHALL INCLUDE S. SHAFT ENCLOSURES SHALL HAVE A FIRE-RESISTANCE /BLY PENETRATED, BUT NEED NOT EXCEED 2 HOURS. SHAFT ENTS OF SECTION 703.2.1.

<u>24.3:</u>

WE WALLS, FLOORS AND CEILINGS OF NOT LESS THAN A LESS THAN THAT REQUIRED FOR ANY CONNECTING INTERIOR YS SHALL BE CONSTRUCTED AS FIRE BARRIERS IN ONTAL ASSEMBLIES CONSTRUCTED IN ACCORDANCE

FOR FIRE BARRIERS, WALLS, OR HORIZONTAL ASSEMBLIES

FIRE RESISTANCE RATING: 4 HR 3 HR

2 HR

UIRED FOR SMOKE BARRIERS. TRUCTED OF MIN 0.10 INCH THICK STEEL IN GROUP I-3

EXIT ACCESS STAIRWAYS PER IBC-NJ 1019.3:

RATING: 1 HR 2 HR

TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF EITHER WALL JOINT SYSTEMS SHALL BE TESTED WITH BOTH FACES SNED FIRE-RESISTANCE RATING SHALL BE THE SHORTEST S. WHERE EVIDENCE IS FURNISHED TO SHOW THAT RE-RESISTANT SIDE EXPOSED TO THE FURNACE, SUBJECT TO HE WALL NEED NOT BE SUBJECTED TO TESTS FROM THE

A HORIZONTAL FIRE SEPARATION DISTANCE GREATER THAN 5 REQUIRED TO BE TESTED FOR INTERIOR FIRE EXPOSURE.

<u>S PER TABLE 716.1(1):</u>

DEFINITION OF MARKING: <u>KI...</u> MEETS WALL ASSEMBLY CRITERIA MEETS FLOOR/CEILING CRITERIA MEETS FIRE WINDOW ASSEMBLY CRITERIA INLCUDING THE HOSE STREAM TEST MEETS FIRE DOOR ASSEMBLY CRITERIA MEETS FIRE DOOR HOSE STREAM TEST MEETS 450° TEMP RISE CRITERIA FOR 30 MINS

THE TIME IN MINS OF THE FIRE RESISTANCE / PROTECTION RATING OF THE GLAZING ASSEMBLY

RATINGS, & MARKINGS PER TABLE 716.1(2):

<u>):</u>	DOOR RATING:	DOOR VISION PANEL SIZE(b):	RATED GLAZING MARK DOOR VISION PANEL(c,e):
	3 HR	SEE NOTE B	D-H-W-240
	3(a) HR	SEE NOTE B	D-H-W-180
	1-1/2 HR	100 SQ IN	≤100 SQ IN = D-H-90; >100
	1-1/2 HR	100 SQ IN	SQ IN= D-H-W-90
		100 SQ IN	≤100 SQ IN = D-H-90; >100
	<u>1-1/2 ΠΚ</u>	100 SQ IN	SQ IN= D-H-W-90
	3 HR	100 SQ IN	≤100 SQ IN = D-H-90; >100
	3(a) HR	100 SQ IN	SQ IN= D-H-W-90
	1 HR	100 SQ IN	≤100 SQ IN = D-H-90; >100 SQ IN= D-H-W-90
	3/4 HR	MAX SIZE TEST	D-H
	1/3 HR	MAX SIZE TEST	D-20
	1/3 HR	MAX SIZE TEST	D-20
	3/4 HR	MAX SIZE TEST	D-H-45
	1/3 HR	MAX SIZE TEST	D-H-20
	1-1/2 HR	100 SQ IN	≤100 SQ IN = D-H-90; >100 SQ IN= D-H-W-90
	1-1/2 HR	MAX SIZE TEST	D-H-90 OR D-H-W-90
	3/4 HR	MAX SIZE TEST	D-H-45
	1/3 HR	MAX SIZE TEST	D-20

RATINGS, & MARKINGS PER TABLE 716.1(2) (CONT'D):

	MIN SIDELI ASSEMBLY R	<u>GHT</u> ATING:	<u>GLAZING MARKING</u> SIDELIGHT PANEL:
3:	PROTECT:	RESIST:	PROTECT: RESIST:
	NOT PERMIT	4 HR	NOT PERMIT W-240
	NOT PERMIT	3 HR	NOT PERMIT W-180
	NOT PERMIT	2 HR	NOT PERMIT W-120
	NOT PERMIT	1-1/2 HR	NOT PERMIT W-90
	NOT PERMIT	2 HR	NOT PERMIT NOT PERMIT W-120
	NOT PERMIT	4 HR	NOT PERMIT W-240
	NOT PERMIT	3 HR	NOT PERMIT W-180
	NOT PERMIT	1 HR	NOT PERMIT W-60
	3/4 HR		D-H
	3/4 HR		D-H-OH-45
	1/3HR		D-H-OH-20
	3/4 HR		D-H-45
	1/3HR		D-H-20
	NOT PERMIT	3 HR	NOT PERMIT W-180
	1-1/2 HR	2 HR	D-H-OH-90 W-120
	3/4 HR		D-H-45
	3/4 HR		D-H-OH-45

ION RATING OF 1-1/2 HR, INSTALLED ON OPPOSITE SIDES OF THE DEEMED EQUIVALENT IN RATING TO ONE 3 HR DOOR. TED TO STM E119 IN ACCORDANCE W/ SECTION 716.1.2.3 SHALL

LAZING MARK DOOR VISION PANEL" W REFERS TO THE FIRE THE FRAME.

5.1(1) FOR ADDITIONAL PERMITTED MARKINGS.

	<u>G PER TABLE 717.3.2.1:</u>		
LESS THAN 3 H 3 HR OR GREATI	<u>TYPE OF PENETRATION:</u> R FIRE RESISTANCE RATED ASSEM ER FIRE RESISTANCE RATED ASSEI	MI BLIES MBLIES	<u>N DAMPER RATING:</u> 1.5 HR 3 HR
MIN PROTECTION OF INSULATING MATERI	STRUCTURAL PARTS BASED ON T ALS PER TABLE 721.1(1): Interior finishes:	IME PERODS FOR VARIOUS	S NONCOMBUSTIBLE
INTERIOR WALL AND	CEILING FINISH REQUIREMENTS P	ER TABLE 803.13 FOR FULI	LY SPRINKLERED:
USE GROUP: B	<u>INT. EXIT STAIRWAYS & EXIT</u> <u>PASSAGEWAYS:</u> B	CORRIDORS & EXIT ENCLOSURES: C	ROOMS & ENCLOS SPACES: C
IBC CHAPTER 9	- FIRE PROTECTION SYST	<u>EMS:</u>	
PROPOSED: ENTIRE BUILDING SH WITH SECTION 903.	IALL BE EQUIPPED THROUGHOUT V	VITH AUTOMATIC SPRINKL	ER SYSTEM IN ACCORDAN
PORTABLE FIRE EXT	INGUISHERS MAX TRAVEL DISTANC ICE TO EXTINGUISHER: 75 FT.	<u>E PER TABLE 906.3(1):</u>	
FIRE PUMP ROOMS F ROOMS CONTAINING ASSEMBLY PER SEC SPRINKLER SYSTEM	PER SECTION 913: GFIRE PUMPS SHALL BE SEPARATE TION 913.2.1, EXCEPTION 1, FOR BU	D BY A 1-HR FIRE BARRIEF IILDINGS EQUIPPED THRO	R AND/OR 1-HR HORIZONT UGHOUT WITH AN AUTOM
IBC CHAPTER 1	<u>0 - MEANS OF EGRESS:</u>		
FOR OCCUPANT LOA LIFE SAFETY PLANS	D, MEANS OF EGRESS SIZING AND ON SHEETS A0.14.	OTHER EGRESS CALCULA	TIONS REFER TO EGRESS
MAXIMUM COMMON DOORWAY PER TABI	PATH OF EGRESS TRAVEL DISTANC E 1006.2.1 FOR FULLY SPRINKLERE	<u>E FROM SPACES WITH ON D BUILDING:</u>	NE EXIT OR EXIT ACCESS
OCCUPANCY: B	MAX OCCUPANT LOAD 49	<u>MAX CON</u>	IMON PATH OF DISTANCE 100 FT
	F EXITS OR ACCESS TO EXITS PER	STORY PER TABLE 1006.3	<u>.1:</u>
OCCUPANT LOA	<u>D PER STORY:</u> 00	<u>MIN NUMBER OF EX</u> 2	KITS FROM STORY:
501 - 1 MORE TH	,000 AN 1,000	3 4	
EXIT			
OCCUP B	ANCY:	EXIT ACCESS TRA 300	AVEL DISTANCE: FT
FIRE-RESISTANCE R	ATINGS FOR CORRIDORS PER TABL	<u>E 1020.1 FOR FULLY SPRII</u>	NKLERED BUILDING:
<u> 00001</u>	B GREATER T	LOAD: HAN 30	<u>RATING:</u> 0 HR
DEAD END CORRIDO	RS PER SECTION 1020.5 & EXCEPT	ON 2 FOR FULLY SPRINKL	ERED BUILDINGS:
OCCL	IPANCY:	ALLOWABLE DEAD END	CORRIDOR DISTANCE:
FIRE-RESISTANCE R	B ATINGS FOR EXIT ACCESS STAIRWA	50 F AY ENCLOSURES PER SEC	- I CTION 1023.2:
CONNECTED NUM	BER OF STORIES:	RATI	NG:
1 TC 4 OR M) 3 IORE	1 H 2 H	IR IR
IBC CHAPTER 1	<u>6 - STRUCTURAL DESIGN:</u>		
RISK CATEGORY OF RISK CATEGORY II - I AND IV.	BUILDINGS AND OTHER STRUCTUR BUILDINGS AND OTHER STRUCTUR	<u>ES PER TABLE 1604.5:</u> ES EXCEPT THOSE LISTEC) IN RISK CATEGORIES I, II
PROTECTION OF OP BUILDING IS NOT IN A NOT REQUIRED.	ENINGS PER SECTION 1609.1.2: A WIND-BORNE DEBRIS REGION PE	R CHAPTER 2 DEFINITION,	THEREFORE PROTECTIO
<u>ULTIMATE DESIGN W</u> 115 MPH	IND SPEED FOR RISK CATEGORY II	PER FIGURE 1609.3(2):	
SURFACE ROUGHNE	SS CATEGORIES PER SECTION 160	<u>9.4.2:</u>	
EXPOSURE CATEGO EXPOSURE B	RIES PER SECTION 1609.4.3:		
EARTHQUAKE LOAD	S PER SECTION 1613 / ASCE 7:		
1. SEISMIC DESI REFER TO S	GN DATA: TRUCTURAL DRAWINGS		
	GN CATEGORY:		
2. SEISMIC DESI			
2. SEISMIC DESI B <u>DRINKING WATER F/</u> 1 / 100. TOTAL BUILD	ACILITIES PER TABLE 403.1: ING OCCUPANCY = B MINIMUM 1 RE	QUIRED - EXISTING OUT C	JF SCOPE.
2. SEISMIC DESI B DRINKING WATER FA 1 / 100. TOTAL BUILD REQUIRED SERVICE 1 SERVICE SINK IS R	ACILITIES PER TABLE 403.1: ING OCCUPANCY = B MINIMUM 1 RE SINKS PER TABLE 403.1: EQUIRED FOR THE ENTIRE FACILIT	QUIRED - EXISTING OUT C	JF SCOPE.
2. SEISMIC DESI B DRINKING WATER FA 1 / 100. TOTAL BUILD REQUIRED SERVICE 1 SERVICE SINK IS R BUILDING ELEN	ACILITIES PER TABLE 403.1: ING OCCUPANCY = B MINIMUM 1 RE SINKS PER TABLE 403.1: EQUIRED FOR THE ENTIRE FACILIT	EQUIRED - EXISTING OUT C Y AND IS PROVIDED. ESISTANCE RATING	<u>S TABLE:</u>





		EGRESS LEG	GEND					
PAT	TRAVE	L DIST	ANCES - LEVEL	4		0-HOUR SMOKE TIGHT PARTITION	— · · · — · · —	SCOPE OF WORK
4	4-1 4-2		79' - 6' 99' - 7'	1 1		1-HOUR SMOKE BARRIER		EXIT PASSAGEWAY
XIT T-2	EXIT CAP EGRESS W 45"	PACITY /IDTH	- STAIRS - LEVE IN/PERSON 0.3	EL 4 OCCUPANT 150		1-HOUR FIRE BARRIER	PATH 1-1	EGRESS PATH
AL	45"			150		2-HOUR FIRE BARRIER		
						3-HOUR FIRE BARRIER		AREA OF REFUGE







DATE SEAL 01/31/2025 SCALE N.T.S. DRAWN CHECKED DRAWING NUMBER





	GENERAL NOTES
DOUBLE S DOUBLE NOBE/CLOTHES WITH MOP/BROWN HOLDERS WITH MOP/BROWN HOLDERS HOLDE	<list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item>







NK PROJ NO: **R2024.099**

A0.30





FT Rating — 0 Hr FH Ratings — 1, 2, 3 and 4 Hr (See Items 1 and 8A) FTH Rating — 0 Hr SECTION A-A I. Wall Assembly — The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner pecified in the individual U400, V400 or W400 Series Wall and Partition Design in the Fire Resistance Directory and shall clude the following construction features A. Studs — Wall framing shall consist of channel shaped steel studs, min 3-5/8 in. (92 mm) wide, fabricated from min 25 MSG galvanized steel, spaced max 24 in. (610 mm) OC. B. **Gypsum Board*** — Min 1/2 in. (13 mm) thick with square or tapered edges. The gypsum board type, number of layers and sheet orientation shall be as specified in the individual Wall and Partition Design Number. Max area of opening is 2496 sq. in. (1.61 m^2) with max dimension of 52 in. (1321 mm). The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is 2. Cable Tray* — Max 36 in. (914 mm) wide by 6 in. (152 mm) deep open-ladder cable tray with channel-shaped side rails formed of 0.067 in. (1.7 mm) thick aluminum and with 1-1/2 in. (38 mm) wide by 3/4 in. (19 mm) deep channel-shaped rungs spaced 10 in. (254 mm) OC. One cable tray to be installed in the opening. The annular space between adjacent penetrating items shall be min 2 in. (51 mm) to max 4-1/2 in. (114 mm). The max annular space between the periphery of the opening shall be min 1 in. (25 mm) to max 3 in. (76 mm). Cable tray to be rigidly supported on both sides of wall assembly. B. Cables — Aggregate cross-sectional area of cables in cable tray to be max 40 percent of the cross-sectional area of the cable tray based on a max 6 in. cable loading depth within the cable tray. Any combination of the following types and sizes of A. 300 pair - No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and PVC jacket.

System No. W-L-8014

July 12, 2016

CAN/ULC S115

F Ratings — 1, 2, 3 and 4 Hr (See Items 1 and 8A)

- B. 1/C 750 kcmil with PVC insulation and jacket.
- C. 24 fiber optic cable with PVC outer and subunit jacket.
- D. 7/C No. 12 AWG cable with PVC insulation and jacket.

4. Through Penetrants — One or more pipes or tubes to be installed within the opening. The total number of throughpenetrants is dependent on the size of the opening and types and sizes of the penetrants. Any combination of the penetrants described below may be used provided that the following parameters relative to the annular spaces and the spacings between the pipes are maintained. The space between pipes, conduits or tubing shall be min 1-1/2 in. (38 mm) to max 4-3/4 in. (121 mm). The space between the periphery of the opening and the pipes or conduits shall be min 3 in. (76 mm) to max 4-1/4 in. (108 mm). Pipe, conduit or tubing to be rigidly supported on both sides of the wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used: A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

- B. Iron Pipe Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe
- C. Conduit Nom 4 in. (102 mm) diam (or smaller) steel electric metallic tubing or 6 in. (152 mm) diam steel conduit. D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
- E. **Copper Pipe** Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

5. Pipe Covering* — Nom 1-1/2 in. (38 mm) thick hollow cylindrical heavy density (3.5 pcf or 56 kg/m³) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. See Pipe Equipment Covering Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of

A. Metal Jacket — (Not Shown) — Required when pipe covering (Item 5) is used. Min 6 in. (152 mm) long jacket formed of min 0.010 in. (0.25 mm) thick steel sheet cut to wrap tightly around the pipe insulation with a min 2 in. (51 mm) lap. Jacket secured with min 1/2 in. (13 mm) wide stainless steel hose clamp located at the center of the jacket. Jacket to be installed on

5. **Conduit** — Nom 2 in. (51 mm) diam steel electrical metallic tubing or steel conduit. A max of thirteen conduit or tubing to be installed within the opening. The space between conduits or tubing shall be 1-1/8 in. (28 mm). The space between conduits or tubing and the periphery of the opening shall be min 1-1/8 in. (28 mm) to max 2-1/2 in. (64 mm). The space between conduits or tubing and other types of penetrating items shall be min 4-1/2 in. (114 mm) to max 4-3/4 in. (121 mm). Conduit or tubing to be rigidly supported on both sides of the wall assembly.

7. Cables — Max 4 in. (102 mm) diam tight bundle. The space between the bundle and adjacent penetrating items shall be min 2 in. (51 mm) to 6 in. (152 mm) max and between the periphery of the opening and the bundle shall be min 1-1/2 in. (38 mm) and 2-1/4 in. (57 mm) max. Cable bundle to be rigidly supported on both sides of the wall assembly. Any combination of the following types and sizes of cables may be used:

- B. 24 fiber optic cable with polyvinyl chloride (PVC) outer and subunit jacket.
- C. 7/C No. 12 AWG cable with polyvinyl chloride (PVC) insulation and PVC jacket.
- D. RGU/59 coaxial cable with polyvinyl chloride (PVC) insulation and PVC jacket.
- E. 2/C No. 10 AWG cable with ground with polyvinyl chloride (PVC) insulation and PVC jacket.
- F. Three 1/C No. 18 AWG wire with polyvinyl chloride (PVC) insulation in a nom 3/4 in. flexible metal conduit.
- B. Firestop System The firestop system shall consist of the following: A. Fill, Void or Cavity Material* — For 3 and 4 hr F rating, fire blocks installed with long dimension passed through the opening from surface to surface. For 1 and 2 hr F rating, fire blocks installed with 5 in. (127 mm) dimension passed through the opening from surface to surface. Blocks to be firmly packed to completely fill entire opening. Either one or a combination of the block types specified below may be used. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-BL Firestop Block

B. Fill, Void or Cavity Material* — Sealant or Putty — Fill material to be forced into interstices of cables, between cables and cable tray, between the penetrants and the Fire Blocks and in obvious openings between blocks, and between blocks and the periphery of the opening to the max extent possible on both surfaces of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant or CP 618 Putty

C. Wire Mesh — When the annular space exceeds 4 in. (102 mm) to the periphery, a nom 2 sq. in. (12.9 cm^2) wire fencing shall be used to keep the blocks in place. The wire fencing is fabricated from min No. 16 SWG (0.060 in.) galv steel wire. The wire is cut to fit the contour of the penetrating item with a min 3 in. (76 mm) lap beyond the periphery of the opening. Wire fencing secured to both surfaces of the wall assembly by means of 1/4 in. (6 mm) diam by 4-3/16 in. (106 mm) long hollow wall anchors and 1/4 in. (6 mm) by 1-1/2 in. (38 mm) diam fender washers spaced max 8 in.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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	DEMOLI	TION LEGEND	
LL FINISHES TO REMAIN INTACT, EXCEPT AS OTHERWISE RE DAMAGE IS INCURRED, OR PATCHING IS REQUIRED OLITION, PROVIDE NEW FINISH TO MATCH EXISTING USH WITH EXISTING.		REMOVE EXISTING WALL	 EXISTING WALL
RFACES SCHEDULED FOR PARTIAL DEMOLITION, REMOVE BUMPER GUARDS, HANDRAILS, ETC. ONLY TO THE UIRED TO ACCOMMODATE DEMOLITION. MODIFY EMENTS TO REMAIN AS REQUIRED AND RE-INSTALL N TRIM AND ENDCAPS AS REQUIRED.		REMOVE EXISTING DOOR AND FRAME	EXISTING DOOR AND FRAME
ESPONSIBLE FOR INSPECTION, REMEDIATION, AND ALL HAZARDOUS MATERIALS. GC IS RESPONSIBLE TO PECTED HAZARDOUS MATERIALS UNCOVERED DURING TO ARCHITECT/OWNER PRIOR TO REMOVAL.		REMOVE PLUMBING FIXTURE. SEE PLUMBING FOR MORE	PLUMBING FIXTURE. SEE PLUMBING FOR MORE
TING EXISTING CONCRETE FLOOR ASSEMBLIES, R SHALL X-RAY FLOOR SLABS FOR REINFORCING PRIOR AND SHALL NOTIFY ARCHITECT/ENGINEER OF ANY PRIOR TO PROCEEDING.			
LLS SCHEDULED TO REMAIN SHALL BE PATCHED AND HERE NECESSARY FOR SMOOTH, EVEN WALL SURFACES; KISTING HOLES WITH MATCHING WALL MATERIALS; RFACE AS NEEDED TO RECEIVE NEW WALL FINISHES.			
OVALS LEAVE OPENINGS IN EXISTING BUILDING NFILL AND PATCH EXISTING CONSTRUCTION AS NEEDED EVEN SURFACES; FIRESTOP WHERE NECESSARY TO ISTING FIRE RATED ASSEMBLIES.			
R SHALL MINIMIZE DISRUPTION OF EXISTING PATIENT ISURE A SAFE ENVIRONMENT IN PATIENT CARE AREAS ALL WORK AREAS FROM OCCUPIED AREAS DURING ION. REFER TO ICRA NOTES ON PHASING FLOOR PLAN ADDITIONAL INFORMATION.			
TA DROPS TO BE TERMINATED BACK TO THE IDE CLOSET			





GENERAL NOTES			FLOOR PLA	N LEGEND		
 SCOPE OF CONSTRUCTION WORK IS NOT LIMITED TO WORK SHOWN ON CONSTRUCTION DRAWINGS. REFER TO DRAWING SERIES A020 FOR BARRIER FREE DETAILS. ALL PARTITIONS TO BE TYPE 'A0S' UNLESS OTHERWISE NOTED ON PLAN. REFER TO DRAWING SERIES A030 FOR PARTITION TYPES. REFER TO DRAWING SERIES A1100 FOR TOILET ACCESSORY LEGEND. REFER TO DRAWING SERIES A700 FOR DOOR TYPES, DETAILS & SCHEDULE. 	 REFER TO DRAWING SERIES A1000 AND/OR SPECIFICATIONS FOR FINISH SCHEDULE. REFER TO DRAWING SERIES A1100 FOR EQUIPMENT LEGEND. BOX OUT ALL EXPOSED PIPING, VALVES, AND FITTINGS FROM FLOOR LINE TO A MINIMUM OF 4" ABOVE CEILING LINE WITH 5/8" GYPSUM BOARD ON 1 5/8" METAL STUDS. PROVIDE METAL ACCESS DOOR FOR ALL VALVES, CLEANOUTS, ETC. PROVIDE MASONRY CONTROL JOINTS AT 30'-0" O.C., MAXIMUM, AT ALL MASONRY WALLS. REFER TO PLANS AND ELEVATIONS FOR JOINT LOCATIONS. IF MASONRY WALL IS PART OF THE STRUCTURAL SHEAR DESIGN, THEN REFER TO STRUCTURAL DRAWINGS FOR LOCATIONS & ADDITIONAL DETAILING INFORMATION. 	 PROVIDE CONTROL JOINTS AT 30'-0" O.C., MAXIMUM FOR ALL GYPSUM BOARD PARTITIONS. REFER TO PLANS AND ELEVATIONS FOR JOINT LOCATIONS. IF GYPSUM BOARD WALL IS PART OF THE STRUCTURAL SHEAR DESIGN, THEN REFER TO STRUCTURAL DRAWINGS FOR LOCATIONS & ADDITIONAL DETAILING INFORMATION. MAINTAIN INTEGRITY OF ALL EXISTING FIREPROOFING ON ALL STRUCTURAL BEAMS, COLUMNS AND PENETRATIONS. REPAIR AS REQUIRED ON ALL STRUCTURAL STEEL, INCLUDING BUT NOT LIMITED TO BEAMS, COLUMNS AND METAL DECKING; MAINTAIN ALL EXISTING FIRESTOPPING. REPAIR WHEN DAMAGED IN COURSE OF WORK. PATCH WALL WHERE PARTITION HAS BEEN REMOVED. PATCH WALL WHERE NEW LAB GASSES/ LAB WATER INSTALLED. 	WHE ARE DOOL NEW REFE A030 XXXXX NEW REFE FOR EXIST	ERE NEW DOORS & FRAMES TO BE INSTALLED, PLACE DR AS INDICATED (UNO) V STUD CONSTRUCTION. ER TO DRAWING SERIES 0 FOR PARTITION TYPE. V MASONRY CONSTRUCTION. ER TO DRAWING SERIES A030 R PARTITION TYPE. STING WALL TO REMAIN	FEC-R FEC-SR	FIRE EXTINGUISHER CABINET: - RECESSED "R" - SEMI-RECESSED "SR" FIRE EXTINGUISHER CABINET: - SURFACE MOUNTED "S"





WORK, COORDINATE EXACT MILLWORK IOR ELEVATIONS.	13. CONTRACTOR SHALL BE RESPONSIBLE FOR RE-INSTALLATION AND/OR REPLACEMENT OF CEILING COMPONENTS AND CEILING SYSTEMS REMOVED DUE TO CONSTRUCTION COORDINATION SEQUENCING	18. COORDINATE LOCATION OF CEILING MOUNTED CURTAIN TRACKS/MISCELLANEOUS CEILING MOUNTED TRACKS, X-RAY AND RAILS WITH CEILING FIXTURES.HVAC GRILLES, AND ALL
ALANT AT ALL PENETRATIONS OF RATED	AND/OR EXECUTION ON ADJOINING FLOORS.	OTHER CEILING MOUNTED ACCESSORIES. G.C. TO COORDINATE/INDICATE LOCATIONS OF ABOVE ITEMS ON
LL BE INDEPENDENTLY SUPPORTED BY	14. RE-WORK EXISTING GRID AND CEILING TILES AT NEW PARTITIONS. CUT EXISTING CEILING TILES AS NECESSARY AND PROVIDE ANY NEW	COORDINATED ABOVE CEILING M.E.P. DRAWINGS.
IXTURES SHALL NOT BE SUPPORTED BY SUPPORT.	COMPONENTS AS NEEDED TO MATCH EXISTING.	19. PROVIDE ADDITIONAL CEILING T-BAR SUPPORTS AT ALL LINEAR DIFFUSERS, CEILING DIFFUSERS, LIGHT FIXTURES IN
SHALL BE SUPPORTED FROM MENTAL FRAMING. WIRES MAY ONLY BE TTOM CELL OF COMPOSITE DECK. WIRES	 CONTINUE EXISTING GRID AND CEILING TILES AS SHOWN. USE EXISTING GRID AND TILES FROM AREAS TO BE REMOVED OR PROVIDE NEW TO MATCH EXISTING. ALIGN NEW GRID WITH EXISTING. 	SCORED ACOUSTIC TILE AND ALL OTHER AREAS WHERE REQUIRED.
D INTO METAL DECK.	 REMOVE EXISTING CEILING AS REQUIRED TO INSTALL NEW WORK. PATCH CEILING TO MATCH EXISTING FLUSH WITH ADJOINING 	
ISH AND INSTALL ALL SUPPLEMENTAL ALL SUSPENDED ITEMS. REFER TO ETAILS ON SHEET A210.	SURFACES. DISCONNECT AND REINSTALL LIGHT FIXTURES AND CEILING DEVICES AS NECESSARY. EXISTING LIGHT FIXTURES TO REMAIN UNLESS OTHERWISE NOTED.	

CEILING HEIGHT CEILING TYPE CEILING SCHEDULE	LIGHT FIXTURE TYPE
CEILING SCHEDULE	
	LIGHTING FIXTURE SCHEDULE
TYPE CEILING DESCRIPTION	TYPE DESCRIPTION
C1A (1) LAYER 5/8" GYPSUM BOARD ON METAL STUD FRAMING	L0 2' x 2' TROFFER
C2A 2' x 2' SQUARE EDGE ACOUSTIC TILE	
C4A 2' x 4' SQUARE EDGE ACOUSTIC TILE	
CEIL-1 ES EXPOSED STRUCTURE	L4 8" DIAMETER, RECESSED CAN DOWNLIGHT, INCANDESCENT, 277V
	L5 48" LENGTH, LINEAR PENDANT LIGHT, 120V
	L6 72" LENGTH, LINEAR PENDANT LIGHT, 120V
	L7 96" LENGTH, LINEAR PENDANT LIGHT, 277V

	SUPPLY DIF
	3" = 1'-0" 7 TYP.
	3" = 1'-0"

								D	JOG	R SC	HE	EDUL	E					
		DOOR									FRAME			DETAILS				EIRE
M	DOOR NO.	TYPE	CONFIG.	NO. OF LEAF'S	OVERA WIDTH	LL SIZE HEIGHT	THICKNESS	MATERIAL	FINISH	GLAZING TYPE	TYPE	MATERIAL	FINISH	HEAD	JAMB	THRESHOLD	HARDWARE SET	RATING (MINUTES
	4-101	F	SG	1	3' - 0"	7' - 0"	1 3/4"	HM	PTD	-	F1	HM	PTD	H1	J1	-	5.0	-
	4-102	F	SG	1	3' - 0"	7' - 0"	1 3/4"	HM	PTD	-	F1	НМ	PTD	H1	J1	-	5.0	-
	4-103A	-	CS	0	4' - 0"	7' - 0"	0"	-	-	-	F1	HM	PTD	H2	J2	-	-	-
	4-103B	-	CS	0	4' - 0"	7' - 0"	0"	-	-	-	F1	HM	PTD	H2	J2	-	-	-
	4-104	F	SG	1	3' - 0"	7' - 0"	1 3/4"	HM	PTD	-	F1	HM	PTD	H1	J1	-	5.0	-
	4-105	-	CS	0	3' - 0"	7' - 0"	0"	-	-	-	F1	HM	PTD	H2	J2	-	-	-
	4-106	F	SG	1	3' - 0"	7' - 0"	1 3/4"	HM	PTD	-	F1	HM	PTD	H1	J1	-	5.0	-
	4-107	F	SG	1	3' - 0"	7' - 0"	1 3/4"	HM	PTD	-	F1	HM	PTD	H1	J1	-	5.0	-
	4-108	F	SG	1	3' - 0"	7' - 0"	1 3/4"	WD	STD	-	F3	HM	PTD	H1	J1	-	2.0	-
	4-111	F	SG	1	3' - 0"	7' - 0"	1 3/4"	WD	STD	-	F3	HM	PTD	H1	J1	-	4.0	-
	4-112	F	SG	1	3' - 0"	7' - 0"	1 3/4"	WD	STD	-	F3	HM	PTD	H1	J1	-	4.0	-
	4-113	F	SG	1	3' - 0"	7' - 0"	1 3/4"	HM	PTD	-	F1	HM	PTD	H1	J1	-	3.0	-
/(4-114)	4-114	F	SG	1	3' - 0"	7' - 0"	1 3/4"	WD	STD	-	F3	HM	PTD	H1	J1	-	2.0	-
	4-403	N6	AA	2	6' - 0"	7' - 0"	1 3/4"	HM	PTD	G1	F1	HM	PTD	H1	J1	-	1.0	-
	EX-S2-4	EX	EX	1	3' - 2"	7' - 0"	1 3/4"	EX	EX	-	EX	EX	EX	EX	EX	-	-	90 MIN

IL	S	

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INTERIOR RENOVATION OF AN **EXISTING 4TH FLOOR TEACHING** LABORATORY TO ACCOMODATE A NEW NEUROSCIENCE LABORATORY. LAYOUT TO PROVIDE SPACE FOR EXPERIMENTATION AND RESEARCH, AS WELL AS OFFICE AND WORK SPACE FOR UNIVERSITY STAFF.

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KEY PLAN PLAN NORTH _ _ _ _ _ TRUE BUILDING _ _ _ _ _ _ BROADWAY

NJDCA FINAL REVIEW 01/31/2025 ISSUE FOR CONSTRUCTION 01/31/2025 2 ISSUE FOR 90% CD PACKAGE 01/03/2025 ISSUE FOR DD PACKAGE 11/15/2024 DESCRIPTION DATE DRAWING TITLE **INTERIOR ELEVATIONS**

DATE SEAL 01/31/2025 SCALE 3/8" = 1'-0" DRAWN CHECKED

DRAWING NUMBER

- MILLWORK PLANS, ELEVATIONS, SECTIONS, DETAILS
- FINISHES) FOR FINISH PLANS, LEGEND, SCHEDULE AND ADDITIONAL GENERAL INTERIOR FINISH NOTES.

- . ALL SHELVING SHALL BE 1" THICK AND 1'-1" DEEP MIN 0. ALL COUNTERTOPS TO BE EPOXY RESIN UNLESS
- . TOP SHELF SHALL BE LOCATED AT 7'-0" MAXIMUM
- 2. ALL BASE CABINETS AND FULL HEIGHT CABINETS SHALL BE 1'-10" DEEP W/ 7" SERVICE BEHIND UNLESS

- 7. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL PROVIDED BY OWNER, INSTALLED BY OWNER AND FINAL CONNECTION BY OWNER ARE LISTED FOR

- 26. LEVELING OF MILLWORK WITH SHIMS SHALL NOT RAISE THE FINISH COUNTERTOP SURFACE ABOVE
- TREATED (F.R.) AS REQUIRED, U.N.O. CONTRACTOR TO COORDINATE SIZE, LOCATION AND TYPE WITH

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AOR/EOR DIGITAL SEAL

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RowanUniversity ROWAN UNIVERSITY **CENTER FOR** NEURAL INFLAMMATION

401 BROADWAY, CAMDEN, NJ 08103

INTERIOR RENOVATION OF AN **EXISTING 4TH FLOOR TEACHING** LABORATORY TO ACCOMODATE A NEW NEUROSCIENCE LABORATORY. LAYOUT TO PROVIDE SPACE FOR EXPERIMENTATION AND RESEARCH, AS WELL AS OFFICE AND WORK SPACE FOR UNIVERSITY STAFF.

WICK **FISHER** WHITE Federal Reserve Bank Building 100 North Independence Mall West Suite 5 SE - Philadelphia, PA 19106 215-627-0200 - wickfisherwhite.com Project No. DCA PROJ NO: NJPRP-21482

KEY PLAN PLAN _ _ _ _ NORTH TRUE NORTH BUILDING _ _ _ _ _ _ BROADWAY

NJDCA FINAL REVIEW 01/31/2025 ISSUE FOR CONSTRUCTION 01/31/2025 2 ISSUE FOR 90% CD PACKAGE 01/03/2025 ISSUE FOR DD PACKAGE 11/15/2024 DESCRIPTION DATE DRAWING TITLE **INTERIOR ELEVATIONS**

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RowanUniversity ROWAN UNIVERSITY **CENTER FOR** NEURAL INFLAMMATION 401 BROADWAY, CAMDEN, NJ 08103 INTERIOR RENOVATION OF AN **EXISTING 4TH FLOOR TEACHING**

LABORATORY TO ACCOMODATE A NEW NEUROSCIENCE LABORATORY. LAYOUT TO PROVIDE SPACE FOR EXPERIMENTATION AND RESEARCH, AS WELL AS OFFICE AND WORK SPACE FOR UNIVERSITY STAFF.

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FINISH NOTES		
 ALL DIMENSIONS SHOWN ON SERIES A800 SHEETS ARE FROM FACE OF FINISH TO FACE OF FINISH. REFER TO DRAWING SERIES A200 FOR ADDITIONAL INFORMATION ON CEILING FINISHES & DETAILS. REFER TO DRAWING SERIES A700 & A1000 FOR FLOORING TRANSITIONS DETAILS. GC IS TO COORDINATE ALL CONDITIONS. FLOORING TRANSITIONS TO OCCUR AT CENTER LINE OF DOORS UNO REFER TO DRAWING SERIES A900 FOR MILLWORK PLANS, ELEVATIONS, DETAILS AND GENERAL NOTES. REFER TO ARCHITECTURAL SPECIFICATIONS & DRAWING SERIES A1000 FOR ALL INTERIOR FINISHES. PROVIDE BLOCKING AS REQUIRED TO PROPERLY MOUNT ALL WALL MOUNTED ACCESSORIES & EQUIPMENT. G.C. TO COORDINATE THE CUTTING/PATCHING OF EXISTING CONSTRUCTION WHERE NECESSARY FOR INSTALLATION. 	 ALL EXISTING WALLS DAMAGED OR AFFECTED BY NEW WORK, WHETHER SHOWN OR NOT AND NOT SCHEDULED FOR FINISHES SHALL BE PATCHED AND PAINTED TO MATCH NEW ADJACENT FINISHES FOR THE ENTIRE WALL & WITH NEW BASE TO MATCH. WHERE PAINTING IS INDICATED AT EXISTING WALLS TO REMAIN, REMOVE AND RE-INSTALL SIGNAGE, ACCESSORIES AND SIMILAR WALL MOUNTED ITEMS. RUN NEW FLOORING BELOW ALL MILLWORK, INCLUDING BELOW DESKS, COUNTERTOPS AND RECESSES BENEATH OPEN CABINETRY. PREP EXISTING FLOOR FOR INSTALLATION OF NEW FLOORING - FLASH PATCH AND/OR GRIND FLOOR AS NEEDED TO ELIMINATE SLAB IMPERFECTIONS FROM TELEGRAPHING THROUGH NEW FLOORING MATERIAL AND FOR SMOOTH, LEVEL AND EVEN WALKING SURFACES. ALL HOLLOW METAL DOOR AND WINDOW FRAMES TO RECEIVE SEMI-GLOSS FINISH PAINT MATCH ADJACENT WALL COLOR U.N.O. ALL GYPSUM BOARD SOFFITS AND CEILINGS TO BE 	 ALL FLOORING MATERIALS TO MEET CLASS WATTS/SQ CM ASTM AS CLASSIFIED IN ACCO WITH NFPA 253. ALL BASES TO MEET CLASS 1, >0.45 WATTS/ ASTM E 84/ AS TESTED IN ACCORDANCE WIT 289. ALL WALL FINISHES TO MEET CLASS A ASTM TESTED IN ACCORDANCE WITH NFPA 286. ALL CASEWORK PRODUCTS TO MEET CLASS E 84, AS TESTED IN ACCORDANCE WITH NFF ALL FINISHES TO MEET CLASS A ASTM E 84/ TESTED IN ACCORDANCE WITH NFF ALL FINISHES TO MEET CLASS A ASTM E 84/ TESTED IN ACCORDANCE WITH NFFA 286, U WHERE PAINTING OR OTHER NEW WALL FIN ARE INDICATED AT EXISTING WALLS, SCOPE INCLUDE PATCHING AND PREP OF EXISTING TO RECEIVE NEW WALL FINISHES.

KEYNOTE #	DESCRIPTION	

	INT	ERIOR FINIS	H MATERIAI		E
PTION	MANUFACTURER	SERIES / MODEL NUMBER	DETAILS	COLOR / FINISH	REMARKS
	NORA	NORAPLAN ENVIRONCARE	24"X24", 2MM THICKNESS	7035 SNOW SHOEING	COLD WELD AT ALL SEAMS, FOLLOW MANUF.'S INSTRUCTION FOR WELDING.
	INTERFACE	KNITSTITCH	50CM X 50CM	103333 LINEN	PROVIDE CUSHION BACKING
	NORA	NORAPLAN ENVIRONCARE	24"X24", 2MM THICKNESS	7032 SLEIGH RIDE	COLD WELD AT ALL SEAMS, FOLLOW MANUF.'S INSTRUCTION FOR WELDING.
SE	TARKETT	JOHNSONITE TRADITIONAL WALL BASE COVE	4'H	55 SIVLER GRAY	AT RESILIENT FLOOR
BASE	TARKETT	JOHNSONITE TRADITIONAL WALL BASE STRAIGHT	4"H	55 SILVER GRAY	AT CARPET FLOOR
PAINT	SHERWIN WILLIAMS			DOVER WHITE #6385 / EGGSHELL	
ALL PANEL	CARNEGIE XOREL		1" ACOUSTICAL PANEL WRAPPED BY XOREL FABRIC ON ALL EXPOSED EDGES	LINEN 6291_4	ADHESIVE DIRECT ONTO WALL, FOLLOW MANUF.'S INSTRUCTION FOR BACKING AND ADHESIVE INFO,
AINT	SHERWIN WILLIAMS			AUSTERE GRAY 6184 / EGGSHELL	
S PANEL	CLARUS	WALL2WALL WITH MAGNETIC	REFER TO ELEVATION FOR SIZE AND REVEAL	COLOR 109 / MATTE FINISH	PROVIDE TRUMOUNT Z-CLIP SYSTEM BY CLARUS, FOLLOW MANUF.'S INSTRUCTION FOR INSTALLATION. PROVIDE BOX TRAY, AND (8) MAGNETS
AINT	SHERWIN WILLIAMS			DOVER WHITE #6385 / SEMI-GLOSS	MATCH TO ADJUCENT WALL COLOR
	SHERWIN WILLIAMS			DASHING / FLAT	
EL CORNER	C/S		2" LEG		
W SHADE -	MECHOSHADE	SHADE CLOTH: MECHO SHADE, ECOVEIL + EQUINOX BLACKOUT	3% OPENNESS + BLACK OUT	COLOR TBD	AT LABS

ROOM FINISH SCHEDULE										
NAME	FLOOR	BASE	WALL	ACCENT WALL	WALL PROTECTION	CORNER GUARD	WINDOW SHADE	MILLWORK LAMINATE	COUNTER TOP	REMARKS
ABORATORY	F1	B1	W1			CG1	WS1			
CUBBY #1	F3	B1	W1							
CUBBY #2	F3	B1	W1							
ENTRY	F3	B1	W1							
CUBBY #3	F3	B1	W1							
CUBBY #4	F3	B1	W1							
CUBBY #5	F3	B1	W1							
CUBBY #6	F3	B1	W1							
HOTELING	F2	B2	W1							
LOW ROOM	F1	B1	W1							
OFFICE #1	F2	B2	W1	W3, W4						
OFFICE #2	F2	B2	W1	W3, W4						
OFFICE #3	F2	B2	W1	W3, W4						
RAGE CLOSET	F2	B2	W1							
ERENCE ROOM	F2	B2	W1	W3, W5						
LEVATOR LOBBY	ETR	ETR	ETR							
ECTRICAL ROOM	ETR	ETR	ETR							
MECH. ROOM	ETR	ETR	ETR							
CORRIDOR	F1	B1	W1							
MENT HALLWAY	F1	B1	W1							
HALLWAY	F2	B2	W1	W3						

FURNITURE NOTES	
1. REFER TO FURNITURE BID PACKAGE WITH CORRESPONDING ISSUE DATE FOR FULL SPECIFICATIONS.	7. DEALER IS RESPONSIBLE TO C ESTABLISH FABRIC RESERVE II QUANTITIES.
2. SUBMIT CURRENT DYE LOT SAMPLES AND FINISH SAMPLES TO ARCHITECT FOR APPROVAL PRIOR TO FABRICATION.	8. SUPPLIER SHALL BE RESPONS ACCURACY AND COMPLETENE PRODUCT NUMBER FOR THE P
3. MANUFACTURER MUST SUBMIT IN WRITING ANY DEVIATION TO ABOVE SPECIFICATION.	PRIOR TO PLACING THE PRODU
 REFER TO FURNITURE PLANS FOR QUANTITIES, LAYOUT & LOCATIONS. 	 MANUFACTURER AND SUPPLY THAT THIS PRODUCT MEETS R JURISDICTION IN WHICH THE P INCLUDES REQUIRED STAMPS.
 FABRIC TO BE BACKED AS PER MANUFACTURERS RECOMMENDATION. 	LABELING.
6. ALL SUBMITTALS ARE TO BE ISSUED AS PER ARCHITECTS SPECIFICATION AND LOCAL CODE REQUIREMENTS FOR APPROVAL PRIOR TO FABRICATION AND SUBMISSION.	10. PROVIDE (1) MONITOR ARM AT NURSE STATIONS, RECEPTION DISCHARGE OFFICE AND AMBL

		FURNITURE LEGEND	
CONFIRM, EXTEND OR IN APPROPRIATE SIBLE FOR VERIFYING THE ESS OF THE SPECIFIED PRODUCT DESCRIBED AND OF ANY DISCREPANCIES UCT ON ORDER. T DEALER SHALL CERTIFY REGULATION OF THE PROJECT IS LOCATED AND CERTIFICATION AND T EACH POSITION AT I DESK, WORK OFFICE, JLANCE TRIAGE.	 PROVIDE (1) KEYBOARD TRAY AT EACH POSITION AT NURSE STATIONS, RECEPTION DESK, SOCIAL WORK OFFICE, DISCHARGE OFFICE AND AMBULANCE TRIAGE. RECEPTION AREA, STAFF LOUNGE, CONFERENCE ROOM, OFFICES, EACH POSITION AT RECEPTION DESKS, AMBULANCE TRIAGE, ALL TOILETS TO RECEIVES TRASH RECEPTACLES. REFER TO SPECIFICATIONS FOR PRODUCT DETAILS. REFER TO PLAN FOR LOCATION. PROVIDE MOBILE PEDESTAL AT EACH POSITION AT RECEPTION DESK, SEE PLAN FOR AMBULANCE TRIAGE AND NURSE STATIONS. ALL MOBILE PEDESTAL TO BE PLACED UNDER WORK SURFACE. ALL CLINICAL TREATMENT ROOMS, CUBICLES BAYS AND EXAM ROOMS TO RECEIVE CUBICLE CURTAINS UNO REFER TO PLAN FOR DIMENSIONS. REFER TO SPECIFICATIONS FOR PRODUCT AND FABRICATION DETAILS. 	FURNITURE TAG: T1-2 FURNITURE VERSION NUMBER FURNITURE NUMBER FURNITURE TYPE	FURNITURE TYPE ABBREVIATIONS:TYPE:DESCRIPTION:CHCHAIR OR SEATCUCUBICAL CURTAINKTKEYBOARD TRAYMAMONITOR ARMMBMOBILE PEDESTALPOPODIUMSHWIRE SHELVINGTTABLETRTRASH RECEPTACLESWBWHITEBOARDWSWORKSTATION

① SPECIALTY EQUIPMENT - PRIMARY											
					OWNER		CONTR	ACTOR	MOL	INTING	
ITEM	DESCRIPTION	AMOUNT	A/E SPECIFY	FURNISH	INSTALL	SPECIFY	FURNISH	INSTALL	FIXED	MOVEABLE	REMARKS
		·									
E1	INCUBATOR, THERMO 370	1									
E2A	FREEZER ,-80C (FRIGIDAIRE)	1									
E2B	FREEZER, -80C (THERMOSCIENTIFIC)	2									
E2C	FREEZER, -80C	1		•		•			•		
E2D	FREEZER, UNDERCOUNTER	14									
E3A	REFRIGERATOR - LABORATORY	1									
E3B	REFRIGERATOR, MEDICAL - UNDERCOUNTER	14		•							
E3C	REFRIGERATOR - UNDERCOUNTER	3									
E4	CO2 INCUBATORS, STACKED	3									
E5	FIRE EXTINGUISHER CABINET (FEC), RECESSED	3									
E6	ICE MAKER - COUNTER-TOP	1									
E7	CABINET, BIO-SAFETY	3									
E8	FUME HOOD	1									

② SPECIALTY EQUIPMENT - SECONDARY

					OWNER		CONTR	RACTOR	MOL	JNTING	
ITEM	DESCRIPTION	AMOUNT	A/E SPECIFY	FURNISH	INSTALL	SPECIFY	FURNISH	INSTALL	FIXED	MOVEABLE	REMARKS
G1	TELEPHONE	1									
G3	PRINTER, LASER JET	1			•					•	
G5	TRASH CAN - PLASTIC, LID	17									
G6	COMPUTER, DESKTOP - PERSONAL	1									
G7	TELEVISION - MULTI-PURPOSE ROOM, FLAT PANEL AND WALL BRACKET	1			•						
G11	HOOD, LAMINAR AIRFLOW	1									
G12	SYSTEM, WATER PURIFICATION	7									
G13A	RACK, DRYING - 30" HEIGHT x 30" WIDTH	1									
G13B	RACK, DRYING - 30" HEIGHT	7									

GENERAL NOTES

- REFER TO DRAWING SERIES A020 SERIES FOR TYPICAL MOUNTING HEIGHTS AND ADDITIONAL NOTES.
- GC TO PROVIDE CONDUIT UP TO 6" ABOVE CEILING FROM EACH RECEPTACLE. OWNER TO PROVIDE COVER PLATES FOR DATA RECEPTACLES.
- 2. CONTRACTOR TO PROVIDE BACK BOX WITH CONDUIT UP TO 6" ABOVE CEILING FROM EACH RECEPTACLE. OWNER TO PROVIDE COVER PLATES FOR DATA RECEPTACLES.
- 3. CONTRACTOR TO COORDINATE ALL EQUIPMENT; INSTALL PER MANUFACTURER'S SPECIFICATIONS AND INSTALLATION REQUIREMENTS.
- 4. EQUIPMENT PLANNER SCHEDULE IS SHOWN FOR COORDINATION PURPOSES ONLY; GC TO COORDINATE WITH EQUIPMENT CONSULTANT AS REQUIRED; SEE EQUIPMENT PLANNER SPECIFICATIONS DOCUMENTS FOR DETAILED INFORMATION.
- 5. CONTRACTOR TO COORDINATE MEP AND PROVIDE ALL UTILITIES AS REQUIRED.
- 6. CONTRACTOR TO COORDINATE WITH OWNER'S SECURITY VENDOR AS NEEDED FOR SECURITY DEVICES AND EQUIPMENT.
- 7. CONTRACTOR TO PROVIDE UTILITY AND BLOCKING AS NEEDED FOR SUPPORT OF ALL CONTRACTOR AND OWNER-PROVIDED ITEMS; CUT/PATCH EXISTING CONSTRUCTION WHERE NECESSARY FOR INSTALLATION.
- 8. SHARPS CONTAINERS SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE IMMEDIATE AREA WHERE SHARPS ARE USED OR ARE ANTICIPATED TO BE FOUND, AND ARE TO BE MOUNTED AT A HEIGHT THAT PERMITS USERS TO SEE THE TOP OF THE CONTAINER. EXACT LOCATION TO BE REVIEWED BY HOSPITAL.
- 9. GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY ACCESSORIES NECESSARY TO MAKE CONNECTION FROM WALL TO FUME HOOD DEVICE.

ROWAN UNIVERSITY CMSRU CENTER FOR NEURAL INFLAMMATION

401 S. BROADWAY, CAMDEN, NJ

JLIND3		
CTRICAL	PLUMBING / FIRE PROTECTION	1. PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, INCIDENTALS, METHODS AND SERVICES REQUIRED TO INSTALL ALL WORK INDICATED COMPLETELY AND IN FULL OPERATION.
HTING		2. PRIOR TO ACCEPTANCE OF THE FACILITY, ALL SYSTEMS SHALL BE TESTED, BALANCED, AND OPERATED TO DEMONSTRATE TO THE OWN OR HIS DESIGNATED REPRESENTATIVE THAT THE INSTALLATION AND PERFORMANCE OF THESE SYSTEMS OR PARTS THEREOF CONFORT TO DESIGN INTENT.
HTING REFER TO LUMINAIRE SCHEDULE	COLD WATER HOT WATER RETURN WOURDERSLAD SANITARY WENT UPE RUPU HOT WATER RETURN WOURDERSLAD SANITARY WENT UPI COLD HIE RE DROP HIE RUPU HIE RUPU HI	 PROP TO ACCEPTINGE OF THE POLITY ALL SYSTEMS SHALL BE TESTED BLANCED, AND CREMENTE TO BENOMMETE TO THE OWN OF IS DESIDANT DEPENDENT THE INTERNET THE CONTRACTOR SHALL PROVIDE THE OWNER WITH () COMPLETE SETS OF MANUFACTURERS COMPANY, MARTINE REPERDENT AND THE CONTRACTOR SHALL PROVIDE THE OWNER WITH () COMPLETE SETS OF MANUFACTURERS COMPANY, MARTINES AND SERVICE REQUIREMENTS OF THE SYSTEMS AND BOOMS FORM KING STAFF PERSONS SHALL SHALL DEPINDENT OF THE CONTRACTOR SHALL PROVIDE THE OWNER WITH () COMPLETE SETS OF MANUFACTURERS COMPANY, MARTINES AND SERVICE REQUIREMENTS OF THE SYSTEMS AND EDUILING THAT PROVIDE THE TO BODING, DISCREPANDES SERVICE DOLUMENTS OF ALL TRADES REVENING ALL OF THE PROJECT REQUIREMENTS PRIC TO BODING, DISCREPANDES SERVICE DOLUMENTS OF ALL TRADES REVENING ALL OF THE PROJECT REQUIREMENTS PRIC TO BODING, DISCREPANDES SERVICE DOLUMENTS OF ALL TRADES REVENING ALL OF THE PROJECT REQUIREMENTS PRIC TO BODING, DISCREPANDES SERVICE DOLUMENTS ON ALL BERKITS OF THE STATUS AND FEBROAL ANTIHONTIES, UTTILLY COMPARIES NERSHANGE AGENESS AND DETAILS IN THE PRICE DRIVEN TO BUD AND PRICE TO FABRICATION. INCLUDE IN BIO ALL WORK RECESSARY TO COMPRESSING AND DETAILS IN THE PRICE DRIVEN TO BUD AND PRICE TO FABRICATION. INCLUDE IN BIO ALL WORK RECESSARY TO COMPRESSING AND DETAILS IN THE PRICE DRIVEN DATA AND PRICE AND AND AND AND AND AND AND AND AND AND
INGS AND DELAYS, ADJUSTABLE SHORT TIME SETTINGS AND DELAYS,		 20. ONLESS OTHERWISE NOTED ALL FARTS, EQUI MENT AND MATERIALS STALL BE NEW AND STALL BE ASME OR OF ALL ROVED. 21. CONTRACTOR SHALL COMPLETE ALL CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF THE WORK. CUTTING AND PATCHING SHALL BE COMPLETED IN A NEAT AND WORKMANLIKE MANNER. PATCHING MATERIALS SHALL MATCH EXISTING MATERIALS TO THE OPERATEST EXTENT POSSIBLE. PROVIDE TOUCH UP PAINT TO MATCH EXISTING AND FACTOR AND PATCHING WORK
INGS AND DELAYS, ADJUSTABLE SHORT TIME SETTINGS AND DELAYS,) FAULT SETTINGS AND DELAYS.		GREATEST EXTENT POSSIBLE. PROVIDE TOUCH UP PAINT TO MATCH EXISTING SURROUNDING AREAS OF CUTTING AND PATCHING WORK 22. CONTRACTOR SHALL REMOVE AND REPLACE ALL CEILINGS AS REQUIRED FOR THE INSTALLATION OF THE NEW WORK.
		23. WHERE EXISTING WALLS, FLOORS OR CEILINGS ARE REMOVED OR PENETRATED, AND WHERE EXISTING END WALLS OF THE BUILDING A POINTS OF CONNECTION OF ADDITIONS, ALL SERVICES, PIPING, CONDUIT, CONTROL OR SWITCH DEVICES, LIGHTS, OR OTHER HVAC, PLUMBING, FIRE PROTECTION OR ELECTRICAL EQUIPMENT SHALL BE REMOVED (OR RELOCATED WHERE THEY MUST REMAIN IN SERVIC OR SERVE, AREAS BEYOND THE IMMEDIATE WORK) CONTRACTOR SHALL FIELD VERIFY CONDITIONS AT THE SITE.
		DEMOLITION NOTES
LED LIGHT EMITTING DIODE LP LIGHTING PANEL LPS LOW PRESSURE SODIUM	AT AIR TURRET AV ACID VENT AW ACID WASTE	1. DEMOLITION/RELOCATIONS: EACH TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND RELOCATIONS OF SERVICES,
LRA LOCKED ROTOR AMPS LTG LIGHTING M METER	CA COMPRESSED AIR CFH CUBIC FEET PER HOUR	EQUIPMENT AND MATERIAL RELATING TO THEIR RESPECTIVE TRADE. 2. WHERE EXISTING WALLS, FLOORS OR CEILINGS ARE REMOVED OR PENETRATED, AND WHERE EXISTING END WALLS OF THE BUILDING
MCA MINIMOM CIRCUIT BREAKER MCB MAIN CIRCUIT BREAKER MCC MOTOR CONTROL CENTER MCM THOUSAND CIRCULAR MIL	COND CONDENSATE CO2 CARBON DIOXIDE CSST CORRUGATED STAINLESS STEEL PIPING	ARE POINTS OF CONNECTION OF ADDITIONS, ALL SERVICES, PIPING, CONDUIT, CONTROL OR SWITCH DEVICES, LIGHTS, OR OTHER HVA PLUMBING, FIRE PROTECTION OR ELECTRICAL EQUIPMENT SHALL BE REMOVED (OR RELOCATED WHERE THEY MUST REMAIN IN SERVICE, OR SERVE, AREAS BEYOND THE IMMEDIATE WORK) CONTRACTOR SHALL FIELD VERIFY CONDITIONS AT THE SITE.
MDP MAIN DISTRIBUTION PANEL MH MANHOLE MLO MAIN LUGS ONLY	CW COLD WATER (E) EXISTING TO REMAIN ESH EMERGENCY SHOWER	3. PRIOR TO DEMOLITION CONTRACTOR SHALL REVIEW WITH OWNER ALL MATERIALS TO BE REMOVED, SHOULD THE OWNER OPT TO KEE ANY MATERIALS THE CONTRACTOR SHALL REMOVE AND DELIVER THE PARTS TO THE OWNER ON THE SITE WHERE SO DIRECTED. OTHERWISE ALL DEMOLISHED OR REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVE
MOD MOTOR OPERATED DAMPER MOP MAXIMUM OVERCURRENT PROTECTION MTS MANUAL TRANSFER SWITCH	EWS EMERGENCY EYE WASH STATION FH FUME HOOD FP FIRE PROTECTION	 FROM THE SITE AND BE DISPOSED OF IN A LEGAL MANNER. 4. DEMOLITION SHALL INCLUDE REMOVAL OF ALL PARTS AND PIECES IN THEIR ENTIRETY BACK TO POINTS INDICATED OR IF NOT INDICATE
N NEUTRAL N/E NORMAL/EMERGENCY NC NORMALLY CLOSED	FPM FEET PER MINUTE FS FLOW SWITCH G GAS	BACK TO THEIR POINT OF SOURCE. WHERE CONDITIONS PROHIBIT TOTAL REMOVAL OF THE WORK, THE REMAINING PORTION SHALL BE CUT FLUSH WITH THE
NEC NATIONAL ELECTRIC CODE NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOC. NL NIGHT LIGHT	GA GAUGE GPH GALLONS PER HOUR GPM GALLONS PER MINUTE	SURROUNDING SURFACE AND BE CAPPED, PLUGGED OR SEALED AND THE SURROUNDING SURFACE SHALL BE REFINISHED IN AN APPROVED MANNER.
NO NORMALLY OPEN OH OVERHEAD P POLE	HW HOT WATER HWR HOT WATER RETURN IE INVERT ELEVATION	 MAINTAIN EXISTING UTILITIES INDICATED OR REQUIRED TO REMAIN, KEEP IN SERVICE, AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS.
PAR PARABOLIC REFLECTOR LAMP PB PUSHBUTTON OR PULL BOX PC PULL CHAIN	IM ICE MACHINE INC INCUBATOR INV INVERT	 DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN SCHEDULED WITH THE OWNER. DO NOT REMOVE EXISTING STRUCTURAL WORK. DO NOT REMOVE OPERATIONAL ELEMENTS AND SAFETY-RELATED COMPONENTS IN A
PF POWER FACTOR PH PHASE PNL PANEL	IW INDIRECT WASTE LAV LAVATORY LCW LABORATORY COLD WATER	MANNER RESULTING IN A REDUCTION OF CAPACITIES TO PERFORM IN THE MANNER INTENDED OR RESULTING IN DECREASED OPERATIONAL LIFE, INCREASED MAINTENANCE, OR DECREASED SAFETY.
PWR POWER REC RECEPTACLE SD SMOKE DETECTOR	LHW LABORATORY HOT WATER LS LABORATORY SINK MR MOP RECEPTOR	7. REMOVALS, DISCONNECTIONS, AND RELOCATIONS SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE INVOLVED AND SHALL BE EMPLOYED BY A CONTRACTOR LICENSED IN THE TRADE INVOLVED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ACCEPTED TRADE PRACTICES.
SPKR SPEAKER SPRK SPRINKLER SW SWITCH	PRV PRESSURE REDUCING VALVE PSI PRESSURE PER SQUARE INCH 02 0XYGEN	8. PROVIDE ADEQUATE TEMPORARY SUPPORT FOR WORK TO REMAIN, TO PREVENT FAILURE. DO NOT ENDANGER OTHER WORK.
TC TIME CLOCK TEL TELEPHONE TS TAMPER SWITCH	RO REVERSE OSMOSIS WATER RWC RAIN WATER CONDUCTOR SAN SANITARY	9. PROTECTION: PROVIDE ADEQUATE PROTECTION WHERE REQUIRED FOR THE PRESENT BUILDING AND ITS CONTENTS. TEMPORARY DUSTPROOF BARRIERS AND BARRICADES SHALL BE ERECTED WHERE REQUIRED FOR PROTECTION OF PERSONNEL, PROTECTION FRO DUST AND DIRT, FOR SECURITY, FIRE AND WEATHER PROTECTIVE REASONS.
TV TELEVISION UG UNDERGROUND	SAN SANTART SB SUPPLY BOX SCH SCHEDULE	CONTRACTOR SHALL TAKE EVERY PRECAUTION AGAINST FIRE BY EMPLOYING FIRE DEPARTMENT TYPE HOSES AND PORTABLE FIRE EXTINGUISHERS AS REQUIRED BY OSHA OR THE OWNER'S INSURANCE LINDERWRITER
UPS UNINTERRUPTABLE POWER SYSTEM V VOLT	SFI SPRINKLER HEAD SK SINK TPW TAMPERED WATER	10. USE TEMPORARY ENCLOSURES, OR OTHER SUITABLE METHODS TO LIMIT DUST AND DIRT RISING AND SCATTERING TO LOWEST PRACTICAL LEVEL COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION
VA VOLIAMPERE VFD VARIABLE FREQUENCY DRIVE VM VOLT METER W WATT	V VENT VAC LABORATORY VACUUM VT VACUUM TURRET	11. ALL EXISTING EQUIPMENT REQUIRED TO BE REUSED SHALL BE CLEANED, RECONDITIONED, CALIBRATED AND ADJUSTED. IN ALL INSTANCES WHERE CONTRACTOR FINDS THAT EXISTING EQUIPMENT IS DEFECTIVE TO THE POINT WHERE IT CANNOT BE PROPERLY RESTORED AND WILL NOT OPERATE PROPERLY. HE SHALL REPORT THE SPECIFIC INSTRUMENTS OR FOLIPMENT TO THE
WF WATER FLOW WM WIREMOLD WP WEATHERPROOF XFMR TRANSFORMER XP EVELOSION BROOF		ARCHITECT/ENGINEER FOR DIRECTIONS. 12. ELECTRICAL CONTRACTOR SHALL RING OUT AND IDENTIFY ALL CIRCUITS REMAINING IN CONTRACT AREA, AFTER DEMOLITION. REMOVE ALL CIRCUITS BACK TO POINT OF SOURCE. MARK PANEL CIRCUITS NO LONGER IN USE "SPARE".
	L	

GENERAL NOTES

DEMOLITION NOTES

DRAWING LIST

Sheet Number	Sheet Name
Choot Humbon	Choot Humo
MPE100	LEGENDS, NOTES, ABBREVIATIONS & DRAWING LIST
MPE101	COMCHECK
MD101	4th FLOOR MECHANICAL - DUCTWORK - DEMOLITION PLAN
MD102	4th FLOOR MECHANICAL - PIPING - DEMOLITION PLAN
M101	4th FLOOR MECHANICAL - DUCTWORK - NEW WORK PLAN
M102	4th FLOOR MECHANICAL - PIPING- NEW WORK PLAN
M103	MECHANICAL SCHEDULES
M104	MECHANICAL DETAILS
M105	MECHANICAL AIRFLOW DIAGRAM
M106	MECHANICAL CONTROLS
PD101	4th FLOOR PLUMBING - DRAINAGE - DEMOLITON PLAN
PD102	4th FLOOR PLUMBING - SUPPLY/GAS - DEMOLITON PLAN
D404	
P101	4th FLOOR PLUMBING - DRAINAGE - NEW WORK PLAN
P102	4th FLOOR PLUMBING - DOMESTIC SUPPLY - NEW WORK PLAN
P103	4th FLOUR PLUMBING - LAB GAS - NEW WORK PLAN
	PLUMBING SCHEDULES, DETAILS AND DIAGRAMS
P001	
P7UZ	
P703 P704	PLUMBING RISER DIAGRAMS PLUMBING RISER DIAGRAMS
FPD101	4th FLOOR FIRE PROTECTION - DEMOLITION PLAN
FP101	4th FLOOR FIRE PROTECTION - NEW WORK PLAN
ED100	4th FLOOR ELECTRICAL - DEMOLITION PLAN
F 400	
E100	
E101	
E102	
E103	
E104	SCHEDULES & SLDS
E105	PANEL SCHEDULES

GENERAL GRAPHIC SYMBOLS

0 - SECTION NUMBER ↓0-0/ → DRAWING NUMBER DRAWING NOTE DESIGNATION $\langle 1 \rangle$ DEMOLITION NOTE DESIGNATION POINT OF CONNECTION BETWEEN NEW WORK & EXISTING WORK POINT OF DEMOLITION **REVISION CLOUD AND NUMBER** SQUARE FOOT ANGLE PLATE ---- 3HR. WALL

CENTER LINE

— — — — SMOKE WALL ----- WIRING UNDER FLOOR OR UNDER GROUND EXISTING WORK ------ NEW WORK

---- DEMOLITION WORK

GENERAL ABBREVIATIONS

Lb

MAX

MECH.

MFR.

MTD.

MIN.

0.C.

OPG.

SQ.FT.

SPEC.

TYP

W

W/

WT

VERT.

ABOVE ABOVE FINISHED FLOOR AVERAGE BELOW BASEMENT CEILING COLUMN CONCRETE CONTR. CONTRACTOR DIAMETER DOWN DEEP DRAWING EXISTING EACH ELECTRICAL CONTRACTOR ELECTRI EQUIPMENT EXISTING TO BE RELOCATED FLOOR GALLON(S) GENERAL CONTRACTOR HORIZONTAL HOUR HEIGHT INSIDE DIAMETER

AFF

BLW

BSMT

CONC.

EQUIP.

HOR

INCL.

INCH

INCLUDING

LENGTH POUND(S) MAXIMUM MECHANICAL CONTRACTOR MECHANICAL MANUFACTURER MINIMUM MOUNTED NEW NOT APPLICABLE

NIC NTS NOT IN CONTRACT NOT TO SCALE ON CENTER OUTSIDE DIAMETER OPENING PLUMBING CONTRACTOR

> RELOCATED EXISTING SQUARE FEET (FOOT) SPECIFICATION STEEL TYPICAL

REMOVE EXISTING

VERTICAL WIDTH WITH WEIGHT

COMcheck Software Version COMcheckWeb Interior Lighting Compliance Certificate

Project Information Energy Code: Project Title: Project Type:

90.1 (2019) Standard 240061 CMSRU Alteration

Construction Site: 401 S. Broadway Camden, New Jersey 08103	Owner/Agent: Cooper Medical School Rowan University	Designer/Contractor: Wick Fisher White 100 N. Independence Mall West, Suite 5 SE Philadelphia, Pennsylvania 19106 215-627-0200	
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A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowe Watts
1-Storage Closet 4-113 (Common Space Types:Storage <50 sq.ft.)	33	0.51	17
2-Office #2 4-111 (Common Space Types:Office - Enclosed <=250 sq ft)	114	0.74	84
3-Office #3 4-112 (Common Space Types:Office - Enclosed <=250 sq ft)	115	0.74	85
4-Office #1 4-110 (Common Space Types:Office - Enclosed <=250 sq ft)	115	0.74	85
5-Hallway CR-4-103 (Common Space Types:Corridor/Transition >=8 ft wide)	216	0.41	89
5-Flow Room 4-109 (Common Space Types:Laboratory For Medical/Industrial/Research)	159	1.33	211
7-Equipment Hallway CR-4-02 (Common Space Types:Laboratory For Medical/Industrial/Research)	326	1.33	434
8-Hoteling 4-108 (Common Space Types:Office - Enclosed >250 sq ft)	285	0.66	188
9-Corridor CR-4-01 (Common Space Types:Lobby - General)	150	0.84	126
10-Conference REoom 4-114 (Common Space Types:Conference/Meeting/Multipurpose)	278	0.97	270
11-Cubby #3 4-104 (Common Space Types:Laboratory For Medical/Industrial/Research)	100	1.33	133
12-Entrance 4-103 (Common Space Types:Lobby - General)	100	0.84	84
13-Cubby #2 4-102 (Common Space Types:Laboratory For Medical/Industrial/Research)	100	1.33	133
14-Cubby #1 4-101 (Common Space Types:Laboratory For Medical/Industrial/Research)	107	1.33	142
15-Lab 4-100 (Common Space Types:Laboratory For Medical/Industrial/Research)	2259	1.33	3004
16-Cubby #4 4-105 (Common Space Types:Laboratory For Medical/Industrial/Research)	100	1.33	133
17-Cubby #5 4-106 (Common Space Types:Laboratory For Medical/Industrial/Research)	100	1.33	133
18-Cubby #6 4-107 (Common Space Types:Laboratory For Medical/Industrial/Research)	99	1.33	132
		Total Allowed Watts =	5483

Proposed Interior Lighting Power

Project Title: 240061 CMSRU Data filename:

Report date: 01/31/25 Page 2 of 14 Data filename:

Name - Title

COMcheck Software Version COMcheckWeb Mechanical Compliance Certificate

Project Information Energy Code: Project Title: Location: Climate Zone: Project Type:

90.1 (2019) Standard 240061 CMSRU Camden, New Jersey 4a Alteration

Owner/Agent:

University

Construction Site: 401 S. Broadway Camden, New Jersey 08103

Mechanical Systems List

Quantity System Type & Description 1 FCU-1

Cooling: 1 each - Hydronic Coil, Capacity = 24 kBtu/h No minimum efficiency requirement applies Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Cooper Medical School Rowan

Fans: FAN 2 Supply, Constant Volume, 500 CFM, 0.3 motor nameplate hp, 0.00 fan energy index , fan exception: Fan array <= 5 total HP or <= 4.1 kW FÁN 1 Supply, Constant Volume, 500 CFM, 0.3 motor nameplate hp. 0.00 fan energy index , fan exception: Fan array <= 5 total HP or <= 4.1 kW

Designer/Contractor:

Wick Fisher White

100 N. Independence Mall West,

Suite 5 SE Philadelphia, Pennsylvania 19106 215-627-0200

SYSTEM VERIFICATION REQUIRED. 2 FPB-1

Heating: 1 each - Hydronic or Steam Coil, Hot Water, Capacity = 14 kBtu/h

No minimum efficiency requirement applies Cooling: 1 each - Hydronic Coil, Capacity = 18 kBtu/h

No minimum efficiency requirement applies Fan System: FAN SYSTEM 2 – Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans: FAN 3 Supply, Single-Zone VAV, 1400 CFM, 0.5 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW SYSTEM VERIFICATION REQUIRED.

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical a plans, specifications, and other calculations submitt designed to meet the 90.1 (2019) Standard requirer mandatory requirements listed in the Inspection Che	Iteration project represented in this docu ed with this permit application. The propo ments in COMcheck Version COMcheckWe ecklist.	ment is consistent with the building ised mechanical systems have been ib and to comply with any applicable
Robert J. Hughes - Project Manager Name - Title	Signature	02/07/25 Date

Project Title: 240061 CMSRU Data filename:

Report date: 01/31/25 Page 5 of 14 Interior Ligh Statement

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (CXD)
Storage Closet 4-113 (Common Space Types: Storage <50 sq.ft., 33 sq.ft.) LED: L0: LED 2'x2' Surface Troffer: Other:	1	1	30	30
Office #2 4-111 (Common Space Types: Office - Enclosed <=250 sq ft. 114 LED: L6: LED 6' Linear Direct/Indirect: Other:	<u>sq.ft.)</u> 1	2	46	92
Office #3 4-112 (Common Space Types: Office - Enclosed <=250 sq ft. 115 LED: L6: LED 6' Linear Direct/Indirect: Other:	<u>i sq.ft.)</u> 1	2	46	92
Office #1 4-110 (Common Space Types: Office - Enclosed <=250 sq ft. 115 LED: L6: LED 6' Linear Direct/Indirect: Other:	<u>i sq.ft.)</u> 1	2	46	92
Hallway CR-4-103 (Common Space Types: Corridor/Transition >=8 ft wide, LED: L3: LED 5*x4' Recessed Linear: Other:	216 sq.ft.) 1	з	40	120
Flow Room 4-109 (Common Space Types: Laboratory For Medical/Industrial LED: L1: LED 2'x4' Recessed Troffer: Other:	l/Research. 1	159 sq.ft. 2	<u>ل</u> 49	98
Equipment Hallway CR-4-02 (Common Space Types: Laboratory For Medica LED: L5: LED 4' Linear Direct/Indrect: Other:	ll/Industrial/ 1	Research 6	<u>. 326 sq.f</u> 37	<u>t.)</u> 222
Hoteling 4-108 (Common Space Types: Office - Enclosed >250 sq ft. 285 sc LED: L6: LED 6' Linear Direct/Indrect: Other:	1.ft.) 1	4	46	184
Corridor CR-4-01 (Common Space Types: Lobby - General, 150 sq.ft.) LED: L5: LED 4' Linear Direct/Indrect: Other:	1	2	37	74
Conference REcom 4-114 (Common Space Types: Conference/Meeting/Mul- LED: L6: LED 6' Linear Direct/Indirect: Other:	tipurpose. 2 1	<u>78 sq.ft.)</u> 4	46	184
Cubby #3 4-104 (Common Space Types: Laboratory For Medical/Industrial/ LED: L2: LED 1'x4' Recessed Troffer: Other:	Research. 1 1	<u>00 sq.ft.)</u> 3	48	145
Entrance 4-103 (Common Space Types: Lobby - General, 100 sq.ft.) LED: L3: LED 5"x4' Recessed Linear: Other:	1	2	40	80
Cubby #2 4-102 (Common Space Types: Laboratory For Medical/Industrial/ LED: L2: LED 1'x4' Recessed Troffer: Other:	Research. 1 1	<u>00 sq.ft.)</u> 4	48	193
Cubby #1 4-101 (Common Space Types: Laboratory For Medical/Industrial/ LED: L2: LED 1'x4' Recessed Troffer: Other:	Research. 1 1	<u>07 sq.ft.)</u> 3	48	145
Lab 4-100 (Common Space Types: Laboratory For Medical/Industrial/Reseau LED: L7: LED 8" Linear Direct/Indrect: Other: LED: L4: LED 6" Recesses Downlight: Other;	rch. 2259 sc 1 1	1.ft.) 33 10	60 15	1993 147
Cubby #4 4-105 (Common Space Types: Laboratory For Medical/Industrial/ LED: L2: LED 1'x4' Recessed: Other:	Research. 1	<u>00 sq.ft.)</u> 4	48	193
Cubby #5 4-106 (Common Space Types: Laboratory For Medical/Industrial/ LED: L2: LED 1'x4' Recessed: Other:	Research. 1 1	<u>00 sq.ft.)</u> 3	48	145
Cubby #6 4-107 (Common Space Types: Laboratory For Medical/Industrial/ LED: L2: LED 1'x4' Recessed: Other:	Research. 9 1	<u>9 sq.ft.)</u> 4	48	193
Interior Lighting PASSES	Tot	al Propose	d Watts =	4422

Interior Lighting Compliance

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspectige Checkligt

Jab Hugh 02/07/25 Robert J. Hughes - Project Manager _____ Date Signature

02/07/25

Project Title: 240061 CMSRU

Report date: 01/31/25 Page 3 of 14

5 V A 2 2 ШШ FPB (E) (E)2" RHHWR —(E)2" RHHWS— -(E)1 1/2" SCHWS —(E)1 1/2" SCHWR— RHCO2 T (E) (E) (E) SVAV SVAV 4-2 (R) \$€T) (R) VAV 4-2

DEMOLITION NOTES: REMOVE (E) SUPPLY FAN POWERED BOX IN ITS ENTIRETY INCLUDING ALL CHW AND REHEAT PIPING BACK TO THE MAINS AND CAP. REMOVE ALL POWER AND CONTROLS REMOVE (E) SUPPLY AIR VAV BOX AND REHEAT COIL INCLUDING ALL PIPING BACK TO THE MAINS AND ALL POWER AND CONTROLS CONTRACTOR SHALL PERFROM AN WATER BALANCE TEST PRIOR TO WORK BEING DONE TO DETERMINE EXISTING FLOW TO FAN POWERED BOX. WATER FLOWS FROM TEST PRIOR TO WORK WILL BE USED TO RE-BALANCE FAN POWERED BOX AFTER NEW WORK IS COMPLETED. REMOVE (E) FAN COIL UNIT INCLUDING ALL PIPING BACK TO THE MAINS AND ALL POWER AND CONTROLS

NOTES: 1- REFER TO DRAWING MPE100 FOR HVAC, PLUMBING/FIRE PROTECTION & ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS & DRAWING LIST.

MATERIAL AND GAUGE.

DRAWING NOTES:

WATER GAUGE.

1- REFER TO DRAWING MPE100 FOR HVAC, PLUMBING/FIRE PROTECTION & ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS & DRAWING LIST.

2- ALL NEW SUPPLY AIR DUCTWORK SHALL MATCH EXISTING SUPPLY AIR DUCT

3- ALL NEW EXHAUST DUCTWORK UPSTREAM OF ALL EVAV BOXES SHALL BE GALVANIZED AND MATCH EXISTING EXHAUST DUCT GAUGE. ALL DUCTWORK DOWN STREAM OF NEW EVAV BOXES SHALL BE STAINLESS STEEL AT 2-INCH

	TERMINAL AIR UNIT SCHEDULE FOURTH FLOOR																																	
		PRIM	ARY COOLING	PRIMARY			FAN	١					ŀ		R HEATING	COIL		1	I						SENSE					INLET	OUTLET	DISCH	RAD	MANUFACTURER & MODEL
IAG	SERVICE	CFM (MA	X) CFM (MIN)	- INLET CONN. (Ø)(IN)	CFM	1 HP	ESF	P V/PH	CAPACIT (MBH)	Y EAT (DEG.F)	LAT (DEG. F)	SPD (IN. W.C.)	GPM	EWT (DEG.F)	LWT (DEG. F)	WPD (FT. W.C.)	COIL FINS/IN.	ROWS	CONTROL VALVE	CAPACITY (MBH)	EAT (DEG.F)	LAT (DEG. F)	APD (IN. W.C.	.) GPM	EWT (DEG.F)	LWT (DEG. F)	WPD (FT. W.C.)	ROWS	CONTROL VALVE	INXIN	SIZE	NC	NC	NUMBER
FPB-4-1	LABORATORY 4-10	600	300	10	1400	0 1/2	.56	6 277/1	14.4	63.0	75.0	.09	1.4	130	109.1	.39	10	1	2-WAY	18.3	75.0	62.3	.20	9.5	59	65	19.2	6	2-WAY	42/12.5	22/15	31	41	KRUEGER KLPS-D SIZE 5
FPB-4-2	LABORATORY 4-10	600	300	10	1400	0 1/2	.56	6 277/1	14.4	63.0	75.0	.09	1.4	130	109.1	.39	10	1	2-WAY	18.3	75.0	62.3	.20	9.5	59	65	19.2	6	2-WAY	42/12.5	22/15	31	41	KRUEGER KLPS-D SIZE 5
FPB-4-3	LABORATORY 4-10	600	300	10	1400	0 1/2	.56	6 277/1	14.4	63.0	75.0	.09	1.4	130	109.1	.39	10	1	2-WAY	18.3	75.0	62.3	.20	9.5	59	65	19.2	6	2-WAY	42/12.5	22/15	31	41	KRUEGER KLPS-D SIZE 5
FPB-4-4	LABORATORY 4-10	600	300	10	1400	0 1/2	.56	6 277/1	14.4	63.0	75.0	.09	1.4	130	109.1	.39	10	1	2-WAY	18.3	75.0	62.3	.20	9.5	59	65	19.2	6	2-WAY	42/12.5	22/15	31	41	KRUEGER KLPS-D SIZE 5

			VAF	RIAB	LE AIR	R VOI	_UM	IE E	30>	ΚW	/ITH	ΗH	OT	W	ATEF	R RE	HEA	Γ
NO		С	FM	INLET	MIN. INLET			HO	T WATE	R REHE	AT COIL	DATA				NC L	EVEL	
NO.	SERVICE	MINIMUM	MAXIMUM	SIZE (IN.)	PRESS. (IN. W.G.)	MBH	NO,	FINS/		AIR			WA	TER		DISC.	RAD.	BASIS OF DESIGN
							ROWS	INCH	EAT	LAT	P.D. H2O	EWT	LWT	GPM	P.D., FT (IN. W.G.)			
SVAV-4-1	CUBBY #1	530	530	8	.27	12.8	2	10	55	72	.25	130	110	1.2	.27	20	20	TUTTLE & BAILEY MOD# SDV
SVAV-4-2	HOTELING	230	750	8	.49	8.2	2	10	55	72	.46	130	110	0.9	.15	24	22	TUTTLE & BAILEY MOD# SDV
SVAV-4-3	CUBBY #2	530	530	8	.27	12.8	2	10	55	72	.25	130	110	1.2	.27	20	20	TUTTLE & BAILEY MOD# SDV
SVAV-4-4	ENTRY 4-103	200	200	6	.12	6.9	2	10	55	72	.08	130	110	0.9	.11	14	14	TUTTLE & BAILEY MOD# SDV
SVAV-4-5	CORRIDOR 4-01	110	350	6	.31	5.0	2	10	55	72	.20	130	110	0.9	.11	19	18	TUTTLE & BAILEY MOD# SDV
SVAV-4-6	CUBBY #3	530	530	8	.27	12.8	2	10	55	72	.25	130	110	1.2	.27	20	20	TUTTLE & BAILEY MOD# SDV
SVAV-4-7	CUBBY #4	530	530	8	.27	12.8	2	10	55	72	.25	130	110	1.2	.27	20	20	TUTTLE & BAILEY MOD# SDV
SVAV-4-8	EQUIPMENT HALLYWAY	500	500	6	.25	12.4	2	10	55	72	.23	130	110	1.2	.26	20	19	TUTTLE & BAILEY MOD# SDV
SVAV-4-9	CUBBY #5	530	530	8	.27	12.8	2	10	55	72	.25	130	110	1.2	.27	20	20	TUTTLE & BAILEY MOD# SDV
SVAV-4-10	CUBBY #6	530	530	8	.27	12.8	2	10	55	72	.25	130	110	1.2	.27	20	20	TUTTLE & BAILEY MOD# SDV
SVAV-4-11	CONFERENCE ROOM 4-114	80	255	6	.18	4.1	2	10	55	72	.12	130	110	0.9	.11	17	17	TUTTLE & BAILEY MOD# SDV
SVAV-4-12	FLOW ROOM, HALLWAY & OFFICES	150	490	8	.24	6.6	2	10	55	72	.22	130	110	0.9	.15	19	19	TUTTLE & BAILEY MOD# SDV

	AIR DEVICE SCHEDULE													
DEVICE NO.	FUNCTION	DAMPER	FACE SIZE	CFM RANGE	DESCRIPTION	MANUFACTURER & MODEL NO.	FINISH	NC LEVEL	REMARKS					
LFD-1	SUPPLY	NO	24x48	230-265	LAMINAR FLOW DIFFUSER	ANEMOSTAT MODEL NO. MV-1	WHITE	<20	PROVIDE WITH 10"Ø DUCT CONNECTION & 1/2" FOIL FACED INSULATION					
LFD-2	SUPPLY	NO	24x24	200	LAMINAR FLOW DIFFUSER	ANEMOSTAT MODEL NO. MV-1	WHITE	<20	PROVIDE WITH 10"Ø DUCT CONNECTION & 1/2" FOIL FACED INSULATION					
PG-1	EXHAUST	NO	24x24	200	PERFORATED EXHAUST GRILLE	TUTTLE & BAILEY MODEL NO. PR-08-24x24-LT-WH	WHITE	<20	PROVIDE WITH 8"Ø NECK					
PG-2	EXHAUST	NO	24x24	430-500	PERFORATED EXHAUST GRILLE	TUTTLE & BAILEY MODEL NO. PR-12x12-24X24-LT-WH	WHITE	<20	PROVIDE WITH 12/12 NECK					
PG-3	EXHAUST	NO	24x24	750	PERFORATED EXHAUST GRILLE	TUTTLE & BAILEY MODEL NO. PR-18x18-24x24-LT-WH	WHITE	<20	PROVIDE WITH 18/18 NECK					
PD-1	SUPPLY	NO	24x24	350	PERFORATED SUPPLY DIFFUSER	TUTTLE & BAILEY MODEL NO. PP-12-24x24-SF-WH	WHITE	<20	PROVIDE WITH 12"Ø NECK					
PD-2	SUPPLY	NO	24x24	375	PERFORATED SUPPLY DIFFUSER	TUTTLE & BAILEY MODEL NO. PP-12-24x24-LT-WH	WHITE	-	PROVIDE WITH 12"Ø NECK					
TG-1	EXHAUST TRANSFER	NO	24x24	130	PERFORATED TRANSFER GRILLE	TUTTLE & BAILEY MODEL NO. PR-08-24x24-LT-WH	WHITE	<20	PROVIDE WITH 8"Ø NECK					
TG-2	EXHAUST TRANSFER	NO	24x24	255	PERFORATED TRANSFER GRILLE	TUTTLE & BAILEY MODEL NO. PR-12-24x24-LT-WH	WHITE	<20	PROVIDE WITH 12"Ø NECK					
CD-1	SUPPLY	NO	24x24	125-130	LOUVERED FACE-ROUND NEC	TUTTLE & BAILEY MODEL NO. MSR-9x9-08-LT-24x24	WHITE	<20	PROVIDE SQUARE TO ROUND NECK. ADAPTOR - REFER TO BLOW PATTERN ON DWGS					
RG-1	RETURN	NO	24x24	1400	3/4"-35° DEFLECTION-FILTERED GRILLE	TUTTLE & BAILEY MODEL NO. T70DFB-22x22-LT-24x24	WHITE	<20	PROVIDE WITH 1-INCH MERV 7 FILTER					

	FAN COIL UNIT SCHEDULE																					
UNIT NO.	OUTSIDE AIR	FAN D TOTAL CFM	ESP	RPM	HP (QTY.)	VOLTS	PHASE	ROWS	ENT. °F	C WATER LVG. °F	FLOW PD. FT GPM WATE	TA TOTAL CAPACITY M.B.H.	SENSIBLE CAPACITY M.B.H.	ROWS	ENT. °F	HEATIN WATEF LVG. °F	NG COIL E R FLOW GPM	PD. FT. WATER	TOTAL CAPACITY M.B.H.	FILTER	MANUFACTURER & MODEL NO.	REMARKS
FCU-4-1	-	1000	0.05	1294	1/4 (2)	230	1	4	75	55	5.0 1.47	24.6	20.9	-	-	-	-	-	-	-	KRUEGER KHFE-A	-

	EXHAUST VARIABLE AIR VOLUME BOX											
NO	NO SERVICE		CFM		MIN. INLET		NC LEVEL					
NO.	SERVICE	MINIMUM			PRESS. (IN. W.C.)	S.P. (IN. W.G.)	DISC.	RAD.	- BASIS OF DESIGN			
EVAV-4-1	LABORATORY	300	600	8	.13	.11	25	17	TUTTLE & BAILEY MOD# SDR			
EVAV-4-2	LABORATORY	300	600	8	.13	.11	25	17	TUTTLE & BAILEY MOD# SDR			
EVAV-4-3	LABORATORY	300	600	8	.13	.11	25	17	TUTTLE & BAILEY MOD# SDR			
EVAV-4-4	LABORATORY	300	600	8	.13	.11	25	17	TUTTLE & BAILEY MOD# SDR			
EVAV-4-5	CUBBY #1	630	630	8	.13	.13	25	18	TUTTLE & BAILEY MOD# SDR			
EVAV-4-6	CUBBY #2	430	430	6	.18	.19	21	24	TUTTLE & BAILEY MOD# SDR			
EVAV-4-7	ENTRY 4-103	150	600	8	.11	.11	25	17	TUTTLE & BAILEY MOD# SDR			
EVAV-4-8	CUBBY \$3	430	430	6	.18	.19	21	24	TUTTLE & BAILEY MOD# SDR			
EVAV-4-9	EQUIPMENT HALLWAY 4-02	150	500	6	.24	.26	25	25	TUTTLE & BAILEY MOD# SDR			
EVAV-4-10	CUBBY #4	740	740	8	.18	.17	25	23	TUTTLE & BAILEY MOD# SDR			
EVAV-4-11	CUBBY #5	630	630	8	.18	.13	25	18	TUTTLE & BAILEY MOD# SDR			
EVAV-4-12	CUBBY #6	630	630	8	.18	.13	25	18	TUTTLE & BAILEY MOD# SDR			
EVAV-4-13	FLOW ROOM OFFICES HALLWAY & CONF. RM	250	845	10	.09	.09	16	24	TUTTLE & BAILEY MOD# SDR			
EVAV-4-14	ACTIVE LEARNING	680	680	8	.24	.15	20	27	TUTTLE & BAILEY MOD# SDR			

NOTES: 1- REFER TO DRAWING MPE100 FOR HVAC, PLUMBING/FIRE PROTECTION & ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS & DRAWING LIST.

PROVIDE CLEARANCE ON ALL

FOUR SIDES FOR EXPANSION

BREAKAWAT CONNECTION	
FIRE DAMPER, BOLT OR WELD TO SLEEVE	
OPERATOR/ACTUATOR	
SMOKE DAMPER ACCESS DOOR	
(LABEL "SMOKE DAMPER ACCESS")	
	_
U.L. LISTED FUSIBLE LINK	
SLEEVE	

RETAINING ANGLES SHALL BE 2"X 2"X 1/8" AND SHALL BE SECURED TO 18 GA. SLEEVE WITH 1/2" WELDS AT 6" O.C. DO NOT SECURE ANGLES TO WALL OR FLOOR. PROVIDE ANGLES ON ALL FOUR SIDES OF SLEEVE AND BOTH SIDES OF WALL.

DUCT

NOTES:

1- REFER TO DRAWING MPE100 FOR HVAC, PLUMBING/FIRE PROTECTION & ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS & DRAWING LIST.

COMBINATION FIRE/SMOKE DAMPER DETAIL

1. DAMPERS SHALL BE CONSTRUCTED AND INSTALLED ACCORDING TO NFPA 90A AND BE UL LABELED, IN ACCORDANCE WITH UL555S

12 CHILLED WATER COIL PIPING DIAGRAM WITH 3-WAY CONTROL VALVE

- DRAIN VALVE

NOT TO SCALE

1 <u>4th FLOOR AIRFLOW DIAGRAM</u>

1 CONNECT (E) SUPPLY AIR VAV BOX TO NEW SUPPLY AIR DUCTWORK . VAV BOX SHALL BE BALANCED TO MINIMUM AND MAXIMUM AIRFLOWS RECORDED PRIOR TO

DRAWING NOTES:

WORK BEGINNING.

WORK BEGINNING.

2 CONNECT (E) EXHAUST AIR VAV BOX TO NEW EXHAUST AIR DUCTWORK. VAV BOX SHALL BE BALANCED TO MINIMUM AND MAXIMUM AIRFLOWS RECORDED PRIOR TO 3- ALL NEW EXHAUST DUCTWORK UPSTREAM OF ALL EVAV BOXES SHALL BE GALVANIZED AND MATCH EXISTING EXHAUST DUCT GAUGE. ALL DUCTWORK DOWN STREAM OF NEW EVAV BOXES SHALL BE STAINLESS STEEL AT 2-INCH WATER GAUGE.

NOTES: 1- REFER TO DRAWING MPE100 FOR HVAC, PLUMBING/FIRE PROTECTION & ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS & DRAWING LIST. 2- ALL NEW SUPPLY AIR DUCTWORK SHALL MATCH EXISTING SUPPLY AIR DUCT MATERIAL AND GAUGE.

EXHAUST AIR BOXES SEQUENCE OF OPERATION

1. THE DDC PANEL WILL MONITOR AND TOTALIZE THE PRIMARY AIR SUPPLY FLOW FROM THE ASSOCIATED ROOMS ROOMS AND SET THE TOTAL EXHAUST FLOW FOR THE EAV'S TO MATCH THE TOTAL PRIMARY AIR SUPPLY FLOW OF THESE ROOMS WITH AN ADJUSTABLE DIFFERENTIAL (IF REQUIRED). THE TOTAL EXHAUST FLOW REQUIRED WILL BE ASSIGNED AS FLOW SETPOINTS TO THE EXHAUST TERMINAL UNITS BASED ON A PERCENTAGE OF THEIR MAXIMUM FLOW IN RELATION TO TOTAL COMBINED FLOW OF THE EAV'S (IE EAV-1=42%, EAV-2=58%). THE DDC PANEL WILL MODULATE THE EXHAUST TERMINAL UNIT DAMPERS TO MAINTAIN FLOW AT THE CALCULATED SETPOINT FOR EACH UNIT.

2. THE DDC PANEL WILL GENERATE HIGH AND LOW EXHAUST FLOW ALARMS IF THE TOTAL EXHAUST FLOW FOR THE AREA IS GREATER OR LESS THAN THE TOTAL SUPPLY FLOW BY A USER DEFINABLE AMOUNT (ADJ.).

NOTES: 1- REFER TO DRAWING MPE100 FOR HVAC, PLUMBING/FIRE PROTECTION & ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS & DRAWING LIST.

WAV TERMINAL UNIT CONTROL SEQUENCE OF OPERATION NOT TO SCALE

GENERAL

1. THE TERMINAL UNITS WILL BE INDEXED TO THE OCCUPIED OR UNOCCUPIED MODES OF OPERATION BY A TIME SCHEDULE BASED ON TIMES PROVIDED BY THE OWNER. ALL SCHEDULES ARE ADJUSTABLE.

2. WHEN INDEXED TO OCCUPIED MODE, THE UNIT TEMPERATURE SETPOINTS WILL BE SET TO 70F (ADJ) FOR HEATING 75F(ADJ) FOR COOLING. THESE SETPOINTS CAN BE ADJUSTED BY THE OCCUPANT WITH THE RELATIVE SETPOINT ADJUSTMENT ON THE ROOM SENSOR.

3. WHEN INDEXED TO UNOCCUPIED MODE, THE UNIT TEMPERATURE SETPOINTS WILL BE SET TO 65F (ADJ.) FOR HEATING AND 85F (ADJ.) FOR COOLING.

4. DURING UNOCCUPIED HOURS, AN OVERRIDE BUTTON ON THE ROOM SENSOR ALLOWS THE OCCUPANT TO RETURN THE UNIT TO OCCUPIED SETPOINT CONTROL FOR AN ADJUSTABLE PERIOD OF TIME. AFTER THE OVERRIDE TIME PERIOD, OCCUPIED-UNOCCUPIED CONTROL WILL RETURN TO THE TIME SCHEDULE. ALARMS

1. IF THE ROOM TEMPERATURE IS 4F (ADJ.) ABOVE THE COOLING SETPOINT OR 4F (ADJ.) BELOW THE HEATING SETPOINT, A ROOM TEMPERATURE ALARM WILL BE GENERATED.

2. IF ROOM CO2 LEVEL (WHERE PROVIDED) IS GREATER THAN 1000PPM (ADJ.), A HIGH CO2 LEVEL ALARM WILL BE GENERATED.

3. IF UNIT DISCHARGE AIR TEMPERATURE IS GREATER THAN 120F (ADJ.) OR LESS THAN 40F (ADJ), A DISCHARGE TEMPERATURE ALARM WILL BE GENERATED.

TEMPERATURE CONTROL 1. WHEN ROOM TEMPERATURE RISES ABOVE THE COOLING SETPOINT, THE TERMINAL UNIT DAMPER WILL BE CODULATED OPEN FROM THE MINIMUM TO THE MAXIMUM FLOW SETPOINT. WHEN ROOM TEMPERATURE FALLS BELOW THE COOLING SETPOINT, THE DAMPER WILL MODULATE TO THE MINIMUM FLOW SETPOINT.

2. WHEN ROOM TEMPERATURE IS BETWEEN THE HEATING AND COOLING SETPOINTS, THE TERMINAL UNIT DAMPER WILL MAINTAIN AIR FLOW AT THE MINIMUM FLOW SETPOINT AND THE REHEAT COIL VALVE WILL BE CLOSED

3. WHEN ROOM TEMPERATURE FALLS BELOW THE HEATING SETPOINT, THE TERMINAL UNIT DAMPER WILL MAINTAIN AIR FLOW AT THE MINIMUM FLOW SETPOINT AND THE REHEAT COIL VALVE WILL VBE MODULATED OPEN TO MAINTAIN ROOM TEMPERATURE AT THE HEATING SETPOINT. IF THE DISCHARGE AIR TEMPERATURE RISES TO MORE THAN 15F (ADJ.) GREATER THAN THE ROOM TEMPERATURE, THE REHEAT VALVE WILL BE MODULATED CLOSED TO MAINTAIN NO MORE THAN 15F DIFFERENTIAL BETWEEN DISCHARGE AND ROOM TEMPERATURES.

MINIMUM VENTILATION CONTROL IF ROOM CO2 LEVEL RISES ABOVE 750PPM (ADJ.) IN THE OCCUPIED MODE, THE CONTROLLER WILL OVERRIDE TEMPERATURE CONTROL OF THE TERMINAL UNIT DAMPER AND MODULATE THE DAMPER OPEN TO MAINTAIN CO2 LEVEL OF THE MAXIMUM SETPOINT

- REFER TO DRAWING MPE100 FOR HVAC, PLUMBING/FIRE PROTECTION &

DEMOLITION NOTES:

- REMOVE EXISTING FIXTURE. CAP EXISTING ACID WASTE AND VENT PIPING FOR RECONNECTION OF NEW WORK.

- **DEMOLITION NOTES:**

- REFER TO DRAWING MPE100 FOR HVAC, PLUMBING/FIRE PROTECTION & 1. ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS & DRAWING LIST.
- 2. WORK TO CONFIRM TO NSPC 2021 NEW JERSEY EDITION WITH ALL AMENDMENTS INCLUDED IN NJAC 5:23-3.15 AS WELL AS ANY AMENDMENTS INSTITUTED BY AHJ OF CITY OF CAMDEN, NJ.
- 3. THIS DRAWING IS DIAGRAMMATIC IN NATURE, CONTRACTOR IS RESPONSIBLE FOR COORDINATING PIPING ROUTES WITH ALL OTHER TRADES. NO SUPPORT HANGER OR CLAMP TO BE MOUNTED ON DUCTWORK. NO HORIZONTAL CLEAN OUT (CAPPED EIGHTH BEND) TO BE OBSTRUCTED BY WALL, DUCT WORK OR OTHER ELEMENTS. ALL SUPPLY WATER PIPING MUST BE SLOPED TO DRAIN AND MUST BE SUPPLIED WITH INTERMEDIATE DRAIN VALVE WHERE
- NECESSARY FOR FUTURE MAINTENANCE. 4. ALL NEW SANITARY / PROCESS WASTE AND UNDERSLAB VENT PIPING 3" AND LARGER IS SLOPED 1/8" PER FOOT UNLESS INDICATED OTHERWISE. ALL NEW SANITARY / PROCESS WASTE AND UNDERSLAB VENT PIPING 2-1/2" AND SMALLER IS SLOPED AT 1/4" PER FOOT.
- 5. ALL COLD/HOT WATER SUPPLY / RETURN PIPING IS RUN TIGHT TO SLAB OF FLOOR ABOVE UNLESS INDICATED OTHERWISE AND SLOPED TO DRAIN AS REQUIRED.
- 6. AT BASE OF EACH SANITARY STACK, PROVIDE A HORIZONTAL CLEANOUT W/ PLUG AND ACCESS SHIELD FOR DRY WALL. PROVIDE SANITARY FLOOR CLEANOUTS AS
- DESCRIBED IN SECTION 5.4.5. OF NATIONAL STANDARD PLUMBING CODE 2021. 7. AT BASE OF EACH SANITARY STACK, PROVIDE A HORIZONTAL CLEANOUT W/ PLUG AND ACCESS SHIELD FOR DRY WALL. PROVIDE SANITARY FLOOR CLEANOUTS AS
- DESCRIBED IN SECTION 5.4.5. OF NATIONAL STANDARD PLUMBING CODE 2021. CONTRACTOR IS TO MINIMIZE ALL SYSTEM SHUT DOWNS DURING CONSTRUCTION 8. AND COORDINATE AND SCHEDULE THEM WITH BUILDING MANAGEMENT. COORDINATE ALL SYSTEM DOWNS WITH THE OWNER.

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CONFERENCE ROOM 4-114

STORAGE

CLOSET 4-113

OFFICE #3 4-112

<u>LS-2</u>

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INSTALL NEW 2" AW AND 2" AV PIPE TO NEW CUP SINKS (CUP-1) LOCATED INSIDE A (5) NEW AND EXISTING FUME HOODS (FM-1 AND (ER)FM). COORDINATE EXACT LOCATION AND CONNECTION OF NEW CUP SINKS WITH EQUIPMENT MANUFACTURERS.

- (4) COORDIANTE EXACT LOCATION AND CONNECTION OF THE NEW CUP SINK WITH EQUIPMENT MANUFACTURERS.

- INSTALL NEW 2" AW AN 2" AV PIPE TO NEW BSC-1 AND CUP-1 LOCATED INSIDE IT.
- (3) SERVICE NEW ICE MACHINE DRAIN. INSTALL NEW SAFE WASTE DRAIN FUNNEL AS SCHEDULED INSIDE CASEWORK AND INSTALL IM-1 DRAIN TO MAINTAIN 2" AIR GAP.
- CONNECT NEW 2" AW AND 1-1/2" AV PIPES TO EXISTING MAINS AND ROUTE TO
- CONNECT NEW 2" AW AND 2" AV PIPES TO EXISTING MAINS AND CONNECT TO 2 SERVICE NEW FIXTURES.
- 1 CONNECT NEW FIXTURES TO EXISTING STUBBED PIPING. EXTEND NEW BRANCHES AS REQUIRED. AND PROVIDE ALL NEW TRAPS / STOPS.

DRAWING NOTES:

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NO.	FIXTURE	MANUFACTURER	MODEL	TRIM	DRAINAGE FIXTURE UNITS	CW	CONNE	ECTIONS WASTE	TRAP	REMARKS
LS-1	LAB SINK	ORION, GUARDIAN & MARQUEST SCIENTIFIC	ARLS-16	21"(W)x18(L)"x10"(D) FAUCET: MARQUEST SCIENTIFIC LG-DD-HC3, TRAP & REMAINING TRIM BY ORION. PROVIDE EWS-1.	3	1/2"	1/2"	2"	2"	INSTALLED AND FURNISHED BY P.C.
LS-2	LAB SINK	ORION, GUARDIAN & MARQUEST SCIENTIFIC	ARLS-17	23"(W)x18(L)"x12"(D) FAUCET: MARQUEST SCIENTIFIC LG-DD-HC3, TRAP & REMAINING TRIM BY ORION. PROVIDE EWS-1.	3	1/2"	1/2"	2"	2"	INSTALLED AND FURNISHED BY P.C.
LS-3	LAB SINK	ORION & GUARDIAN	ARLS-16	21"(W)x18(L)"x10"(D) FAUCET: NONE, TRAP & REMAINING TRIM BY ORION. PROVIDE EWS-1.	3	1/2"	1/2"	2"	2"	INSTALLED AND FURNISHED BY P.C.
LS-4	LAB SINK	ORION & GUARDIAN	ARLS-13	16"(W)x16(L)"x8"(D) FAUCET: MARQUEST SCIENTIFIC LG-DD-HC3, TRAP & REMAINING TRIM BY ORION. PROVIDE EWS-1.	3	1/2"	1/2"	2"	2"	INSTALLED AND FURNISHED BY P.C.
CUP-1	FUME HOOD CUP SINK	ORION	CS1	3IN(W)x6IN(L)x5IN(D) EPOXY DIPPED CUP SINK W/ ORION P-TRAP;	3	N/A	N/A	1-1/2"	1-1/2"	INSTALLED AS PART OF FM-1 INSTALLATION BY P.C.
AT-1	AIR TURRET	FISHER SCIENTIFIC	06-000-403	N/A	N/A	N/A	N/A	N/A	N/A	INSTALLED AND FURNISHED BY P.C.
VT-1	VACUUM TURRET	FISHER SCIENTIFIC	06-000-405	N/A	N/A	N/A	N/A	N/A	N/A	INSTALLED AND FURNISHED BY P.C.
GAS-1	CARBON DIOXIDE / NATURAL GAS TURRET	FISHER SCIENTIFIC	06-000-402	N/A	N/A	N/A	N/A	N/A	N/A	INSTALLED AND FURNISHED BY P.C.
GAP-1	GAS AND POWER MANIFOLD	SEE ARCHITECTURAL DRAWINGS	SEE ARCHITECTURAL DRAWINGS	POWER, COMPRESSED AIR AND NATURAL GAS MANIFOLD HOUSING TWO NATURAL GAS AND COMPRESSED AIR TURRETS PER SEGMENT. PROVIDE FULL PORT 3 PIECE BAL	N/A	N/A	N/A	N/A	N/A	P.C. IS TO COORDINATE PROCUREMENT OF EQUIPMENT WITH GENERAL AND ELECTRICAL CONTRACTORS PRIOR TO BID. P.C. IS RESPONSIBLE FOR PIPING AND CONTROL VALVES. ALL OTHER COMPONENTS ARE TO BE NEGOTIATE.
ESH-1	EMERGENCY SHOWER	GAURDIAN	GBF2352-PCC	PROVIDE NEW WATER HAMMER ARRESTOR AND SHUT OFF VALVE	N/A	N/A	1-1/2"	N/A	N/A	INSTALLED AND FURNISHED BY P.C. REMOVE SHUT OFF VALVE HANDLE. SEE DETAILS AND MANUFACTURER'S INSTRUCTION FOR INSTALLATION INSTRUCTIONS
SB-1	SUPPLY BOX, RECESSED	SIOUX CHIEF W/ ZURN INDUSTRIES	696-G1011PR W/ 700XL	LEAD FREE, ABS RECESSED SUPPLY BOX, W/ WATER HAMMER ARRESTOR, VALVE, ZURN MODEL 700XL BFP AND COPPER SWEAT CONNECTION;	N/A	1/2"	N/A	N/A	N/A	INSTALLED AND FURNISHED BY P.C. PROVIDED FOR RO-1 & IM-1 INSTALLATIONS. CONSULT WITH ARCHITECTURAL TEAM PRIOR TO FINALIZING INSTALLATION.
SB-2	SUPPLY BOX, RECESSED	SIOUX CHIEF W/ JOMAR VALVE OR FISHER SCIENTIFIC	696-1 W/ FULL PORT 90 DEGREE BALL VALVE	ABS BOX WITH MOUNTING ACCESSORIES AND QUARTER TURN 90 DEGREE 1/4IN FULL PORT BALL VALVE W/ THREADED CAP OR W/ FISHER SCIENTIFIC 90 DEGREE GAS TURRET.	N/A	N/A	N/A	N/A	N/A	INSTALLED AND FURNISHED BY P.C. PROVIDED AS FOR OF EASY EXPANSION / DISCONNECT FOR PRESENT AND FUTUR EQUIPMENT. FINAL CONNECTION AND VALVE SELECTION MUST BE COORDINATED WITH OWNER'S REPRESENTATIVES
RO-1	REVERSE OSMOSIS STATION	MILLIPORE SIGMA	MILLI-Q EQ 7016 W/ 25L TANK	TYPE 1 ULTRA PURE WATER DISPENSING STATION WITH INTEGRAL D.I. WATER GENERATION AND 25L TANK. PROVIDE BFP-1, SHUT OFF BALL VALVE AND STRAINER.	N/A	1/2"	N/A	N/A	N/A	INSTALLED AND FURNISHED BY P.C. COORDINATE INSTALLATION WITH ARCHITECTURAL CASEWORK AND CLIENT'S REPRESENTATIVE. ALL CONTROL VALVES ARE TO BE ACCESSIBLE THRU CASEWORK.
BFP-1	BACK FLOW PREVENTION	ZURN ENGINEERING	975XL3-SU	PROVIDE AIR GAP FUNNEL AND WYE STRAINER.	N/A	1/2"	N/A	N/A	N/A	INSTALLED AND FURNISHED BY P.C. ROUTE AIR GAP DISCHARGE TO NEARBY FUNNEL
BFP-2	BACK FLOW PREVENTION	ZURN ENGINEERING	700XL	PROVIDE SHUT OFF VALVE AND UNIONS.	N/A	1/2"	N/A	N/A	N/A	INSTALLED AND FURNISHED BY P.C.
EWS-1	EMERGENCY EYEWASH STATION	GAURDIAN	G1805	PROVIDE NEW SHUT OFF VALVE.	N/A	N/A	1"	N/A	N/A	INSTALLED AND FURNISHED BY P.C. REMOVE SHUT OFF VALVE HANDLE. SEE DETAILS AND MANUFACTURER'S INSTRUCTION FOR INSTALLATION INSTRUCTIONS
MV-1	THERMOSTATIC MIXING VALVE	ACORN ENGINEERING	ACORN ENGINEERING ST70CP-38	PROVIDE UNIONS AND THERMOMETER	N/A	1/2"	N/A	N/A	N/A	INSTALLED AND FURNISHED BY P.C. PROVIDE UNIONS AND SET TO 105F; PROVIDED ONE PER LS-1 AND LS-2 FOR LAB COLD AND HOT WATER VALVES;
TP-1	MECHANICAL TRAP PRIMER	WATTS REGULATORS CO	LFTP300	PROVIDE SHUT OFF VALVE AND UNION.	N/A	1/2'	N/A	N/A	N/A	INSTALLED AND FURNISHED BY P.C. PRIME HUB DRAIN SERVICING AN ICE MACHINE IN ROOM NEARBY .
IM-1	COUNTERTOP ICE MACHINE	HOSHIZAKI & WATTS REGULATORS CO.	DM-4420N & MS-950-2-F4-1-8	PROVIDE SB-1, AND UNDER COUTNER FUNNEL DRAIN WITH ORION P-TRAP; PROVIDE SB-1 AND WF-1 AS PART OF ASSEMBLY.	N/A	1/2"	N/A	2"	2"	INSTALLED AND FURNISHED BY P.C. PROVIDE ALL ACCESSORIES LISTED AND SEE ARCHITECTURAL AND PLUMBING DETAILS FOR INSTALLATION INSTRUCTIONS.
INC-1	INCUBATOR	NEW BRUNSWICK	GALAXY 170R	SELFCONTAINED INCUBATOR; CONNECT TO NEARBY CO2 TURRET LOCATED IN THE WALL BEHIND IT.	N/A	N/A	N/A	N/A	N/A	INSTALLED AND FURNISHED BY P.C.
FH-1	FUME HOOD	MOTT MANUFACTURING LTD. & FISHER SCIENTIFIC	SAFEGUARD BENCH - COMBINATION SASH 7371050	PROVIDE FISHER SCIENTIFIC WATER(16-326), CA(06-000-596), VAC(06-000-599), G(06-000-597) OUTLETS & TWO CUP SINKS (CUP-1) WITH THEIR RESPECTIVE ACCESSORIES.	3 x 2	1/2"	N/A	1-1/2"	1-1/2"	INSTALLED AND FURNISHED BY P.C. CONSULT WITH EQUIPEMENT MANUFACTURER AND CLIENT REPRESENTATIVE REGARDING INSTALLATION AND FINAL CONFIGURATION OF EQUIPMENT.
BSC-1	BIOSAFETY CABINET	NUAIRE INC. W/ FISHER SCIENTIFIC	NU-545-498 W/ FISHER VALVES & FUNNEL	PROVIDE DRAIN VALVE OPTION, FISHER SCIENTIFIC WATER(16-326), CA(06-000-596), VAC(06-000-599) AND CUP SINK 2" BELOW DRAIN VALVE WITH THEIR RESPECTIVE	3	1/2"	N/A	1-1/2"	1-1/2"	INSTALLED AND FURNISHED BY P.C. CONSULT WITH EQUIPEMENT MANUFACTURER AND CLIENT REPRESENTATIVE REGARDING INSTALLATION AND FINAL CONFIGURATION OF EQUIPMENT.
WF-1	WATER FILTER ASSEMBLY	WATTS REGULATORS CO	PWDWHCUC1	SINGLE STAGE HIGH CAPACITY CARBON FILTER MOUNTED UNDER IM-1; PROVIDE SHIT OFF VALVES, STRAINER, AND BFP-2 AS PART OF ASSEMBLY;	N/A	1/2"	N/A	N/A	N/A	INSTALLED AND FURNISHED BY P.C. CONNECT ICE MACHINE WATER SUPPLY LINE.

	PLUMBING PIPE AND FITTING SCHEDULE												
SYSTEM	PIPE SIZE	LOCATION	MATERIAL	SCHEDULE AND /OR TYPE	FITTING	JOINT	REMARKS						
LAB WASTE	ALL	ALL	FRPP	SCHEDULE 40	FRPP	NO HUB / GROOVED	STAINLESS STEEL AND PLASTIC CLAMP ORION CLAMP JOINTS						
LAB VENT	ALL	ALL	FRPP	SCHEDULE 40	FRPP	NO HUB / GROOVED	STAINLESS STEEL AND PLASTIC CLAMP ORION CLAMP JOINTS						
COLD WATER	ALL	ABOVE GRADE/GROUND	COPPER	TYPE 'L'	COPPER	SOLDERED	95% TIN & 5% ANTIMONY						
LABORATORY GAS PIPING	ALL	ABOVE GRADE/GROUND	COPPER	TYPE 'L'	COPPER (ANSI B16.22)	BRAZED	COPPER-PHOSPHORUS OR COPPER-PHOSPHORUS -SILVER FILLER METAL IN ACCORDANCE W/ NFPA 99						
NATURAL GAS PIPING	ALL	ABOVE GRADE/GROUND	BLACK STEEL	SCHEDULE 40	CAST IRON CLASS 125	THREADED	PIPING PAINTED WITH PROTECTIVE COATING IN ACCORDANCE WITH IFGC2021 403.7						
HOT WATER / HOT WATER	ALL	ABOVE GRADE/GROUND	COPPER	TYPE 'L'	COPPER	SOLDERED	95% TIN & 5% ANTIMONY						

PLUMBING PIPE AND FITTING INSULATION SCHEDULE

					ULL
SERVICE	MANUFACTURER	TYPE	VAPOR BARRIER	INSULATION THICKNESS	REMARKS
DOMESTIC COLD WATER	OWENS CORNING OR AEROFLEX	FIBERGLASS OR CLOSED CELL ELASTOMERIC	YES, FACTORY APPLIED OR INTEGRAL	1/2": FOR PIPES 1-1/4" AND BELOW1": FOR PIPES 1-1/2" AND ABOVE	RUNOUTS NOT TO EXCEED 12' IN LENGTH. ASTM C534 5 PCF DENSITY FOR ELASTOMETRIC ASTM C547 4 PCF DENSITY FOR MINERAL FIBER
DOMESTIC HOT WATER / HOT WATER RETURN	OWENS CORNING OR AEROFLEX	FIBERGLASS OR CLOSED CELL ELASTOMERIC	YES, FACTORY APPLIED OR INTEGRAL	1" : FOR PIPES 1-1/4" AND BELOW 1-1/2" : FOR PIPES 1-1/2" AND ABOVE	RUNOUTS NOT TO EXCEED 12' IN LENGTH. ASTM C534 5 PCF DENSITY FOR ELASTOMETRIC ASTM C547 4 PCF DENSITY FOR MINERAL FIBER
TEMPERED WATER	OWENS CORNING OR AEROFLEX	FIBERGLASS OR CLOSED CELL ELASTOMERIC	YES, FACTORY APPLIED OR INTEGRAL	1" : FOR PIPES 1-1/4" AND BELOW 1-1/2" : FOR PIPES 1-1/2" AND ABOVE	RUNOUTS NOT TO EXCEED 12' IN LENGTH. ASTM C534 5 PCF DENSITY FOR ELASTOMETRIC ASTM C547 4 PCF DENSITY FOR MINERAL FIBER
LABORATORY HOT WATER	OWENS CORNING OR AEROFLEX	FIBERGLASS OR CLOSED CELL ELASTOMERIC	YES, FACTORY APPLIED OR INTEGRAL	1" : FOR PIPES 1-1/4" AND BELOW 1-1/2" : FOR PIPES 1-1/2" AND ABOVE	RUNOUTS NOT TO EXCEED 12' IN LENGTH. ASTM C534 5 PCF DENSITY FOR ELASTOMETRIC ASTM C547 4 PCF DENSITY FOR MINERAL FIBER

V	VATER H	AMMER SCHED	ULE WA	-1
PPP SIZE	P.D.I. SYMBOL	MAX FIXTURES RATINGS	A' SIZE	B' SIZE
1/2"	А	1-11	5"	1/2"
3/4"	В	12 - 32	5"	3/4"
1"	С	33 - 60	7"	1"
1-1/4"	D	61 - 113	7"	1-1/4"
1-1/2"	E	114 - 154	9"	1-1/2"
2"	F	155 - 330	9"	2"

1 PLUMBING SUPPLY RISER DIAGRAM

1 PLUMBING LAB GAS RISER DIAGRAM

1" G TAP WITH SHUT OFF VALVE AND PRESSURE REDUCING VALVE OF 8" EXISTING GAS MAIN IN PIPE CHASE; 200' TOTAL DISTANCE 200 TOTAL CFH TABLE 402.4(3) IFGC 2021 @ 3" W.C. PRESSURE LOSS INLET PRESSURE UNDER 2 PSI; ----

PLUMBING NATURAL GAS RISER DIAGRAM

- REFER TO DRAWING MPE100 FOR HVAC, PLUMBING/FIRE PROTECTION & 1 ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS & DRAWING LIST.
- WORK TO CONFORM TO INTERNATIONAL FIRE CODE 2021 WITH AMENDMENTS MADE BY STATE OF NEW JERSEY AS ANY AMENDMENTS INSTITUTED BY AHJ OF CITY OF CAMDEN, NJ. ADDITIONALLY, ALL WORK SHALL COMPLY TO NFPA 13, 14, 25, AND ALL REQUIREMENTS OF LOCAL AHJ AND OFFICE OF FIRE MARSHALL.
- THIS DRAWING IS DIAGRAMMATIC IN NATURE, CONTRACTOR IS RESPONSIBLE 3. FOR COORDINATING PIPING ROUTES WITH ALL OTHER TRADES, FIRE PROTECTION PIPES ARE TO BE ROUTED BELOW NEW DUCTWORK OR IN BETWEEN STRUCTURAL ELEMENTS. NO SUPPORT HANGER OR CLAMP TO BE

DRAWING NOTES:

ARE ENCLOSED BY THIS NOTE OUTLINES AREA OF WORK AND IS SUPPLIED BY EXISTING WET SPRINKLER SYSTEM CONTROLLED VIA CONTROL VALVE LOCATED IN THE EAST STAIRCASE, OUTSIDE OF WORK AREA. REMOVE ALL EXISTING SPRINKLERS. REMOVE BRANCH PIPING AND A MAINS AS REQUIRED TO ACCOMMODATE NEW SPRINKLER LAYOUT ILLUSTRATED ON 1/FP101. F.C. IS TO ARRANGE TEMPORARY FIRE PROTECTION FOR THE AREA AS REQUIRED PER CODE DURING CONSTRUCTION PRIOR TO NEW SYSTEM GOING ON LINE TO MAINTAIN BUILDING'S FULLY SPRINKLERED STATUS.

AREA ENCLOSED BY THIS NOTE OUTLINES AREA OUT OF SCOPE OF THIS PROJECT. MAINTAIN SPRINKLER COVERAGE AND ONLY MODIFY SPRINKLER PATTERN IF REQUIRED BY NEW WALL LAYOUT OF NEW WORK AREA.

OFFICES, COMMON AREAS AND CORRIDORS.

HAZARD CLASSIFICATION SYSTEM TYPE OPERATING AREA DENSITY SPRINKLER COVERAGE

SPRINKLER RESPONSE TYPE TEMPERATURE RATING NOMINAL K-FACTOR PIPING - WET SYSTEM

FIRE PROTECTION DESIGN DATA: 4TH FLOOR WORK AREA

HOSE STREAM ALLOWANCE HOSE STREAM ALLOWANCE : LIGHT HAZARD : WET : 1,500 SQ.F.T. MINIMUM : 0.10 MINIMUM GPM/ SQ FT : 100 GPM 225 SQ FT MAXIMUM

: PENDENT / CONCEALED / UPRIGHT : (SEE ARCHITECTURAL DWGS) : QUICK RESPONSE : INTERMEDIATE TEMPERATURE (175°F), PER NFPA 13

: 8.0 : SCHEDULE 40 BLACK STEEL, THREADED : CLASS 125 FITTINGS

LABORTORY SPACES.

HAZARD CLASSIFICATION SYSTEM TYPE OPERATING AREA DENSITY HOSE STREAM ALLOWANCE SPRINKLER COVERAGE HOSE STREAM ALLOWANCE

SPRINKLER RESPONSE TYPE TEMPERATURE RATING NOMINAL K-FACTOR PIPING - WET SYSTEM

- ORDINARY HAZARD GROUP 2 WET
- 1,500 SQ.F.T. MINIMUM : 0.20 MINIMUM GPM/ SQ FT
- 250 GPM
- 130 SQ FT MAXIMUM PENDENT / CONCEALED / LARGE DROP
- (SEE ARCHITECTURAL DWGS)
- : QUICK RESPONSE INTERMEDIATE TEMPERATURE (175°F), PER NFPA 13
- : 8.0 SCHEDULE 40 BLACK STEEL, THREADED
- CLASS 125 FITTINGS

NOTES:

- REFER TO DRAWING MPE100 FOR HVAC, PLUMBING/FIRE PROTECTION & ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS & DRAWING LIST.
- WORK TO CONFORM TO INTERNATIONAL FIRE CODE 2021 WITH AMENDMENTS MADE BY STATE OF NEW JERSEY AS ANY AMENDMENTS INSTITUTED BY AHJ OF CITY OF CAMDEN, NJ. ADDITIONALLY, ALL WORK SHALL COMPLY TO NFPA 13, 14, 25, AND ALL REQUIREMENTS OF LOCAL AHJ AND OFFICE OF FIRE MARSHALL.
- THIS DRAWING IS DIAGRAMMATIC IN NATURE, CONTRACTOR IS RESPONSIBLE FOR COORDINATING PIPING ROUTES WITH ALL OTHER TRADES, FIRE PROTECTION PIPES ARE TO BE ROUTED BELOW NEW DUCTWORK OR IN BETWEEN STRUCTURAL ELEMENTS. NO SUPPORT HANGER OR CLAMP TO BE MOUNTED ON DUCTWORK.
- PROVIDE HYDRAULICALLY CALCULATED SPRINKLER LAYOUT PER STANDARDS 4. OUTLINED. RELOCATE FIRE PROTECTION PIPING IF NECESSARY DUE TO CONFLICT WITH SANITARY OR MECHANICAL SYSTEMS.
- CONTRACTOR IS TO COORDINATE ALL FIRE PROTECTION SYSTEM SHUTDOWNS 5. WITH BUILDING MANAGEMENT AND AHJ. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY FIRE PROTECTION OF THE WORK SPACE.
- ALL AREAS NOT HIGHLIGHTED BY DRAWING NOTE 2 ARE CONSIDER TO BE 6. EXISTING TO REMAIN AND SHALL NOT BE MODIFIED AS PART OF THIS PROJECT. F.C. IS TO CHECK AND MODIFY ANY AREAS OUTSIDE OF SCOPE THAT ARE AFFECTED BY NEW ALTERED WALL LAYOUT AND REDRESS ANY REDUCTION OF COVERAGE WITH ADDITIONAL SPRINKLERS.

DRAWING NOTES:

- $\begin{pmatrix} 1 \\ 1 \end{pmatrix}$ ARE ENCLOSED BY THIS NOTE OUTLINES AREA OF WORK AND IS SUPPLIED BY EXISTING WET SPRINKLER SYSTEM CONTROLLED VIA CONTROL VALVE LOCATED IN THE EAST STAIRCASE, OUTSIDE OF WORK AREA. EXTEND OR RECONFIGURE EXISTING BRANCH AND BRANCH MAIN PIPING TO SERVE A NEWLY RECONFIGURED SPACE. EXACT PIPING LAYOUT IS TO BE DETERMINED BY F.C. RELOCATE FIRE SPRINKLER MAINS AS REQUIRED TO COMPLETE THE NEW LAYOUT.
- (2) AREA ENCLOSED BY THIS NOTE OUTLINES AREA OUT OF SCOPE OF THIS PROJECT. MAINTAIN SPRINKLER COVERAGE AND ONLY MODIFY SPRINKLER PATTERN IF REQUIRED BY NEW WALL LAYOUT OF NEW WORK AREA.
- (3) FUME HOOD LABELED BY THIS NOTE CONTAINS NATURAL GAS TURRET. COORDINATE WITH EQUIPMENT MANUFACTURING AND PROVIDE A SPRINKLER INSIDE THE HOOD WITH MINIMUM OF "VERY EXTRA HIGH 450F" TEMPERATURE RATING PER NFPA 13, OR WITH RATING REQUIRED BY MANUFACTURER, WHICHEVER IS HIGHER.

4th FLOOR F	OWER - N	IEW WOR	K PLAN
1/4" = 1'-0"			

PROVIDED BY INSTALLED BY LOW-VOLTAGE WIRING BY BACKBOX & CONDUIT BY PROGRAMM TERMINATION 6 Image: Conduct of the second s	
	IONS/TESTING BY
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1. COORDINATE EXACT LIGHT FIXTURE LOCATIONS & MOUNTING HEIGHTS

GENERAL LIGHTING NOTES:

(APPLY TO ALL LIGHTING PLANS)

ALL NEW EMERGENCY LIGHTING FIXTURES SHALL BE CONNECTED TO EMERGENCY SYSTEM BRANCH CIRCUITS. UNLESS NOTED OTHERWISE,

DRAWING NOTES:

- (1) PROVIDE DAYLIGHT SENSOR TO CONTROL AND DIM THE LUMINAIRES TO MEET ASHREA 90.1 2019 REQUIREMENTS.

NOTES:

1- REFER TO DRAWING MPE100 FOR HVAC, PLUMBING/FIRE PROTECTION & ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS & DRAWING LIST.

			LI	GHTING	CONTRC	DL MATRIX						
CONTROL FUNCTION/ROOM TYPE	CORRIDOR CR-4-01	ENTRANCE 4-103	HALLWAY 4-109	OFFICES	HOTELING	CONFERENCE ROOM	EQUIPMENT HALLWAY	CUBBIES	FLOW ROOM	STORAGE CLOSET	LABORATORY CONTROL ZONE	REMARKS
OCCUPANCY CONTROL, MANUAL ON												
OCCUPANCY CONTROL, AUTOMATIC ON 100%	X	Х	Х									
OCCUPANCY CONTROL, AUTOMATIC ON 50%				Х	Х	Х	Х	Х	Х	X	Х	
OCCUPANCY CONTROL, AUTOMATIC PARTIALLY OFF DELAY (MIN.)												
OCCUPANCY CONTROL, AUTOMATIC DIMMING		X, 50%	X, 50%				X, 50%					
OCCUPANCY CONTROL, AUTOMATIC OFF OR DIMMING DELAY (MIN.)	20	20	20	20	20	20	20	20	20	20	20	
MANUAL CONTROL TO TURN ON		X, 100%	X, 100%	X, 100%	X, 100%	X, 100%	X, 100%	X, 100%	X, 100%	X, 100%	X, 100%	
MANUAL CONTROL TO TURN OFF	X	Х	Х	Х	Х	Х	Х	Х	Х	X	Х	
MANUAL CONTROL, RAISE DIMMING LEVEL	X	Х	Х	Х	Х	Х	Х	Х	Х	X	Х	
MANUAL CONTROL, LOWER DIMMING LEVEL	X	Х	Х	Х	Х	Х	Х	Х	Х	X	Х	
DAYLIGHT RESPONSIVE CONTROL											Х	SEE NOTE b.
LOCAL OVERRIDE SWITCH		Х	Х	Х	X	X	Х	Х	Х	Х	X	SEE NOTE a, c.
TIME SCHEDULE ON/OFF CONTROL VIA EXISTING AUTOPHOS CONTROL PANEL	Х											SEE NOTE d.

NOTES: a. ENGRAVED COVERPLATE OF SWITCH TO INDICATE AREA SERVED

b. REFER TO FLOOR PLAN FOR MORE INFORMATION

c. SWITCH ACTIVATION SHALL OVERRIDE FOR 2 HOURS. d. CONNECT LUMINAIRES IN CORRIDOR CR-4-01 TO EXISTING EMERGENCY LIGHTING CIRCUIT SERVING ELEVATOR LOBBY.

	LUMINAIRE SCHE	EDULE				
TYPE	DESCRIPTION	MOUNTING	LAMPS	VOLTS	MANUF.	CATALOG #
LO	SURFACE MOUNT 2'x2' LED CENTER BASKET LUMINAIRE, POLYESTER POWDER PAINTED, MATTE WHITE HIGH REFLECTIVE POWDER PAINT REFLECTOR, CURVED SMOOTH ACRYLIC DIFFUSERS, VOLUMETRIC ILLUMINATION OPTICS, 0-10V 10% DIMMING DRIVER.	SUSPENDED AT 9'-0" A.F.F. BY AIRCRAFT CABLES.	LED, 3500K, 82 CRI, 3300 LUMENS	277V	LITHONIA	2BLTX2 33L ADSM 277 GZ10 LP835
L1	RECESSED 2' X 4' LED TROFFER, WHITE STEEL HOUSING, MATTE WHITE POLYESTER POWER PAINTED REFLECTORS, WHITE REGRESSED ALUMINIUM DOOR, #12 PATTERN ACRYLIC FROSTED 0.125" THICK LENS, 0-10V 1% DIMMING DRIVER.	RECESSED	LED, 3500K, 90 CRI, 7200 LUMENS	MVOLT	LITHONIA	2GTL 4 60L RW A12125 GZ1 LP835
L2	RECESSED 1' X 4' LED TROFFER, WHITE STEEL HOUSING, MATTE WHITE POLYESTER POWER PAINTED REFLECTORS, VOLUMETRIC ILLUMINATION OPTICS WITH CENTER CURVED SMOOTH ACRYLIC DIFFUSER, eldoLED 0-10V 1% DIMMING DRIVER.	RECESSED	LED, 3500K, 90 CRI, 6000 LUMENS	MVOLT	LITHONIA	BLT4 60L ADSM EZ1 LP935
L3	RECESSED 3.57" X 4' LED LUMINAIRE, WHITE FINISH, HIGH LUMEN OUTPUT, HE TECH OUTPUT DIRECT DISTIRBUTION, 0-10V DIMMING, PROVIDE MOUNTING TRIM PER CEILING MATERIAL.	RECESSED	LED, 3500K, 90+ CRI, 1114 LM/FT, 9.8W/FT	120-277V	A.LIGHT	D54 LH 35 CRI (90+) U HE W D MOUNTING PER CEILING MATERIAL
L4	RECESSED VERTICAL ROUND LED DOWNLIGHT, NOMINAL 6" DIAMETER APERTURE, SEMI-SPECULAR FINISH, CLEAR REFLECTOR AND FLANGE, MEDIUM WIDE DISTRIBUTION, 0-10V 1% DIMMING DRIVER, nLIGHT DIMMING PACK CONTROL.	RECESSED	LED, 3500K, 85 CRI, 1500 LUMENS	MVOLT	GOTHAM	EVO6 35/15 AR LSS MWD MVOLT EZ1
L5	SUSPENDED 4' LENGTH LED DIRECT/INDIRECT LUMINAIRE WITH RECTANGULAR SHAPED, NOMINAL 7-5/8"W X 2-1/2"H ALUMINUM HOUSING. 0-10V CONSTANT CURRENT DIMMING TO 1%, SINGLE CIRCUIT, T-BAR CEILING WITH 24" ADJUSTABLE SUSPENSION WIRES, SQUARE END CAPS, PAINTED SILVER TO MATCH ALUMINUM FINISH.	SUSPENDED AT 1' -0" BELOW DROP CEILING, 8'-0" A.F.F.	LED, 3500K, 90 CRI, 3500K INDIRECT OUTPUT: 300 NOMINAL LM/FT DIRECT OUTPUT : 700 NOMINAL LM/FT	277V	PEERLESS	PRPID LLP 4FT MSL4 90CRI 35K I300LMF 700LMF MIN1 ZT 277 SCT F1/24A C110 SQEP
L6	SUSPENDED 6' LENGTH LED DIRECT/INDIRECT LUMINAIRE WITH RECTANGULAR SHAPED, NOMINAL 7-5/8"W X 2-1/2"H ALUMINUM HOUSING. 0-10V CONSTANT CURRENT DIMMING TO 1%, SINGLE CIRCUIT, T-BAR CEILING WITH 24" ADJUSTABLE SUSPENSION WIRES, SQUARE END CAPS, PAINTED SILVER TO MATCH ALUMINUM FINISH.	SUSPENDED AT 1' -0" BELOW DROP CEILING, 8'-0" A.F.F.	LED, 3500K, 90 CRI, 3500K INDIRECT OUTPUT: 300 NOMINAL LM/FT DIRECT OUTPUT : 600 NOMINAL LM/FT	277V	PEERLESS	PRPID LLP 6FT MSL6 90CRI 35K I300LMF 600LMF MIN1 ZT 277 SCT F1/24A C110 SQEP
L7	SUSPENDED 16' LENGTH LED DIRECT/INDIRECT LUMINAIRE WITH RECTANGULAR SHAPED, NOMINAL 7-5/8"W X 2-1/2"H ALUMINUM HOUSING. 0-10V CONSTANT CURRENT DIMMING TO 1%, SINGLE CIRCUIT, T-BAR CEILING WITH 24" ADJUSTABLE SUSPENSION WIRES, SQUARE END CAPS, PAINTED SILVER TO MATCH ALUMINUM FINISH.	SUSPENDED AT 1' -0" BELOW DROP CEILING, 8'-6" A.F.F.	LED, 3500K, 90 CRI, 3500K INDIRECT OUTPUT: 300 NOMINAL LM/FT DIRECT OUTPUT : 600 NOMINAL LM/FT	277V	PEERLESS	PRPID LLP 16FT MSL16 90CRI 35K I300LMF 600LMF MIN1 ZT 277 SCT F1/24A C110 SQEP
L8	SUSPENDED 8' LENGTH LED DIRECT/INDIRECT LUMINAIRE WITH RECTANGULAR SHAPED, NOMINAL 7-5/8"W X 2-1/2"H ALUMINUM HOUSING. 0-10V CONSTANT CURRENT DIMMING TO 1%, SINGLE CIRCUIT, T-BAR CEILING WITH 24" ADJUSTABLE SUSPENSION WIRES, SQUARE END CAPS, PAINTED SILVER TO MATCH ALUMINUM FINISH.	SUSPENDED AT 1' -0" BELOW DROP CEILING, 8'-6" A.F.F.	LED, 3500K, 90 CRI, 3500K INDIRECT OUTPUT: 300 NOMINAL LM/FT DIRECT OUTPUT : 600 NOMINAL LM/FT	277V	PEERLESS	PRPID LLP 8FT MSL8 90CRI 35K I300LMF 600LMF MIN1 ZT 277 SCT F1/24A C110 SQEP
EX	UNIVERSAL MOUNT, INTERNALLY ILLUMINATED LED SINGLE/DOUBLE FACE EXIT SIGN WITH A WHITE CAST ALUMINUM HOUSING, STENCIL FACE AND RED DIFFUSE LETTERING WITH CHEVRON KNOCK-OUTS FOR DIRECTION. EMERGENCY NI-CD BATTERY, SELF-DIAGNOSTICS.	WALL	LED, 3000K, 7W.	120/277V	LITHONIA	LE-S-W-1/2-R-120/277-EL N-SD

TYPICAL CARD ACCESS DETAIL NGTE: TO SCALE

- (1) TYPICAL DIAGRAM IS DIAGRAMMATIC, ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER'S SECURITY CONTRACTOR/VENDOR FOR CONDUIT REQUIREMENTS AND PROVIDE 120V POWER TO THE
- ACCESS DOOR CONTROL BOX. (2) FOR HOTELING, PROVIDE AN EXIT CONTROL PUSH PLATE BY THE DOOR ON THE SECURE SIDE INSTEAD OF THE EXIT MOTION SENSOR.

	MULTI-OUTLET ASSEMBLY SCHEDULE										
TYPE	DESCRIPTION	MANUFACTURER / MODEL									
A	ALUMINUM SURFACE RACEWAY. 6" WIDTH X 2.16"H, TWO EQUAL WIDTH COMPARTMENTS WITH SEPARATE ACCESS COVERS. PROVIDE DUPLEX RECEPTACLES AS SHOWN ON PLANS. PROVIDE TELE/DATA OUTLETS AS SHOWN ON PLANS.	MONO-SYSTEMS SERIES SWA4800									
В	ALUMINUM SURFACE RACEWAY. 6" WIDTH X 2.16"H, TWO EQUAL WIDTH COMPARTMENTS WITH SEPARATE ACCESS COVERS. PROVIDE DUPLEX RECEPTACLES AS SHOWN ON PLANS. PROVIDE TELE/DATA OUTLETS AS SHOWN ON PLANS.	MONO-SYSTEMS SERIES SWA4800									
С	ALUMINUM SURFACE RACEWAY. 2.87" WIDTH X 1.87"H, SINGLE COMPARTMENTS WITH ACCESS COVER. PROVIDE DUPLEX RECEPTACLES AS SHOWN ON PLANS. PROVIDE SPECIAL OUTLETS AS SHOWN ON PLANS.	MONO-SYSTEMS SERIES SWA3300									

NOTES: 1. MULTI-CIRCUIT RACEWAYS WITH MORE THAN ONE BRANCH CIRCUIT SHALL BE ALTERNATELY CIRCUITED UNLESS OTHERWISE NOTED ON DRAWING, LABEL ALL RECEPTACLES WITH PANEL NAME AND CIRCUIT NUMBER.

	POKE-THRU SCH	HEDULE	
TYPE	DESCRIPTION	MANUFACTURER / MODEL	DEVICES
	8" CORE POKE-THRU DEVICE. FIVE COMPARTMENTS FOR POWER, COMMUNICATIONS AND/OR PROVISIONS FOR A/V DEVICES. DIE-CASE ALUMINUM COVER ASSEMBLIES. SATIN NICKEL PLATED. SURFACE STYLE ALUMINUM COVER.	WIREMOLD 8CT2SN - (3) 8MAAP - (1) 68REC - (1) 682A - (1) 1125CHA - (2) 1BLH - (1) 575CHA - (1) 5PTHA	2 - DUPLEX RECEPTACLES, 125V, 20A 2 - VOICE/DATA JACKS PROVISIONS FOR A/V

	SPECIA	AL OUTLETS SCH	EDULE	
TYPE	NEMA CONFIGURATION	WIRE/CONDUIT (UNLESS OTHERWISE NOTED ON PLAN)	VOLTAGE RATING	C.B. AMPS/POLES
Ŷ	6-20R	2#12, 1#12G, 3/4"C	250V	20/2

2 - VOICE/DATA JACKS PROVISIONS FOR A/V

1 PARTIAL SINGLE LINE DIAGRAM DEMOLITION NOT TO SCALE

2 PARTIAL SINGLE LINE DIAGRAM NEW WORK NOT TO SCALE

NOTES: (1) EXISTING LOAD VA ARE ESTIMATES.
(2) CKT NOS WITH 'E' ARE EXISTING CIRCUITS TO E

(2) CKT NOS. WITH 'E' ARE EXISTING CIRCUITS TO REMAIN.
 (3) PROVIDE NEW 100/3 C.B. TO EXISTING SPACE. C.B. SHALL BE 240V, 10KA. MATCH EXISTING IN MANUFACTURER AND TYPE.

P	ANEL	DESIG	NATION: SLD4A1 $\langle D \rangle$			208Y/12	0V 3Ø 4W	MOUNTING : FI	LUSH		
LC	CAT	ION: EL	EC RM 257 EXISTIN	IG PANEL		225A M	СВ				
*	CIR NO.	LOAD V.A.	BRANCH CIRCUIT- DESCRIP. & LOCATION	C/B SIZE		C/B SIZE	BRANCH CIRCUIT- DESCRIP. & LOCA	TION	LOAD V.A.	CIR NO.	*
	1	300	BMS - 4TH FLOOR	20/1		20/1	REC - RM 462		360	2	
	3	300	SECURITY PANEL	20/1		20/1	SPARE			4	
	5		SPARE	20/1		20/1	SPARE			6	
	7		SPARE	20/1		20/1	SPARE			8	
	9		SPARE	20/1		20/1	SPARE			10	
	11		SPARE	20/1		20/1	SPARE			12	
	13		SPARE	20/1		20/1	SPARE			14	
	15		SPARE	20/1		20/1	SPARE			16	
	17		SPARE	20/1		20/1	SPARE			18	
	19		SPARE	20/1		20/1	SPARE			20	
	21		SPARE	20/1		20/1	SPARE			22	
	23		SPARE	20/1		20/1	SPARE			24	
	25									26	
	27	8000	PNL SL4A1	100/3		100/3	PNL SL4A2		21340	28	
	29									30	
	31									32	
C	33	9420	PNL SL4A3	100/3						34	
	35									36	
	37									38	
	39									40	
	41									42	
	CONI	NECTE	D LOAD 39720		. •		DEMAN	ID LOAD	39720		
			MIN. A.I.C. RATING		10	,000					

PAN	EL DESIG	NATION: $LL4A1\langle D \rangle$			208Y/12	0V 3Ø 4W	MOUNTING :	SUR	FACE		
LOC	ATION: E	QUIP. HALLWAY EXISTI	NG PANEL	r	100A M	LO					_
	R LOAD O. V.A.	BRANCH CIRCUIT- DESCRIP. & LOCATION	C/B SIZE		C/B SIZE	BRANCH CIRC DESCRIP. & LC	UIT- DCATION		LOAD V.A.	CIR NO	
	900	LAB 4-100 BENCH RECEPT	20/1		20/1	LAB 4-100 BEN	CH RECEPT		900	2	ł
(A) 3	3 900	LAB 4-100 BENCH RECEPT	20/1		20/1	LAB 4-100 BEN	CH RECEPT		700	4	ł
(A) 8	5 900	LAB 4-100 BENCH RECEPT	20/1		20/1	LAB 4-100 BEN	CH RECEPT		900	6	ł
(A) 7	900	LAB 4-100 BENCH RECEPT	20/1		20/1	LAB 4-100 BEN	CH RECEPT		720	8	ł
(A) 9	900	LAB 4-100 BENCH RECEPT	20/1		20/1	LAB 4-100 BEN	CH RECEPT		900	10	ł
(A) 1	1 900	LAB 4-100 BENCH RECEPT	20/1		20/1	LAB 4-100 BEN	CH RECEPT		720	12	ł
(A) 1	3 540	LAB 4-100 BENCH RECEPT	20/1		20/1	LAB 4-100 BEN	CH RECEPT		900	14	ł
(A) 1	5 540	LAB 4-100 BENCH RECEPT	20/1		20/1	LAB 4-100 BEN	CH RECEPT		720	16	K
(A) 1	7 900	LAB 4-100 BENCH RECEPT	20/1		20/1	LAB 4-100 BEN	CH RECEPT		900	18	ł
(A) 1	9 720	LAB 4-100 BENCH RECEPT	20/1		20/1	LAB 4-100 BEN	CH RECEPT		720	20	ł
(A) 2	1 900	LAB 4-100 BENCH RECEPT	20/1		20/1	LAB 4-100 BEN	CH RECEPT		900	22	ł
(A) 2	3 720	LAB 4-100 BENCH RECEPT	20/1		20/1	LAB 4-100 BEN	CH RECEPT		720	24	ł
(A) 2	5 900	LAB 4-100 BENCH RECEPT	20/1		20/1	LAB 4-100 BEN	CH RECEPT		900	26	ł
(A) 2	7 720	LAB 4-100 BENCH RECEPT	20/1		20/1	LAB 4-100 BEN	CH RECEPT		720	28	ł
(A) 2	9 900	LAB 4-100 BENCH RECEPT	20/1		20/1	LAB 4-100 BEN	CH RECEPT		900	30	ł
(A) 3	1 720	LAB 4-100 BENCH RECEPT	20/1		20/1	LAB 4-100 BEN	CH RECEPT		720	32	k
3	3	SPARE	20/1		20/1	LAB 4-100 BEN	CH RECEPT		900	34	K
3	5	SPARE	20/1		20/1	LAB 4-100 BEN	CH RECEPT		720	36	ł
3	7	SPARE	20/1		20/1	SPARE				38	
3	9	SPARE	20/1		20/1	SPARE				40	
4	1	SPARE	20/1		20/1	SPARE				42	I
CC	NNECTE	D LOAD 27520	-	L		DEI	MAND LOAD		18760	-	
		MIN. A.I.C. RATINO	<u> </u>	10	,000						

P	ANEL	DESIG	NATION: $LL4A5$ (D)			208Y/12	20V 3Ø 4W MOUNTING : SUR	FACE		
L	CAT	ION: EQ	QUIP. HALLWAY EXISTIN	IG PANEI	_	100A M	LO			
*	CIR NO.	LOAD V.A.	BRANCH CIRCUIT- DESCRIP. & LOCATION	C/B SIZE		C/B SIZE	BRANCH CIRCUIT- DESCRIP. & LOCATION	LOAD V.A.	CIR NO.	*
(A)	1	720	LAB 4-100 BENCH RECEPT AT COL 1.2	20/1		20/1	ENTRY 4-103 RECEPT	360	2	A
(A)	3	720	LAB 4-100 BENCH RECEPT AT COL 1.2	20/1		20/1	SPARE		4	A
(A)	5	720	LAB 4-100 BENCH RECEPT AT COL 1.2	20/1		20/1	SPARE		6	A
(A)	7	900	LAB 4-100 BENCH RECEPT AT COL 5	20/1		20/1	SPARE		8	A
(A)	9	900	LAB 4-100 BENCH RECEPT AT COL 5	20/1		20/1	CUBBY 1 & 2 RECEPT	540	10	A
(A)	11	720	LAB 4-100 BENCH RECEPT AT COL 5	20/1		20/1	CUBBY 1 & 2 RECEPT	540	12	A
(A)	13	540	CUBBY 5 & 6 RECEPT	20/1		20/1	CUBBY 3 & 4 RECEPT	720	14	A
(A)	15	540	CUBBY 5 & 6 RECEPT	20/1		20/1	CUBBY 3 & 4 RECEPT	720	16	A
(A)	17	1080	HALLWAY & FLOW RM CONV. RECEPT	20/1		20/1	EQUIP HALLWAY RECEPT - ICE MAKER	800	18	A
(A)	19	360	EQUIP HALLWAY RECEPT	20/1		20/1	FLOW RM RECEPT	540	20	A
(A)	21	540	FLOW RM RECEPT	20/1		20/1	CONF RM AV RECEPT	180	22	A
(A)	23	720	CONF RM RECEPT	20/1		20/1	CONF RM RECEPT	900	24	A
(A)	25	360	CONF RM FLOOR RECEPT	20/1		20/1	OFFICES RECEPT	1080	26	A
(A)	27	1080	OFFICES RECEPT	20/1		20/1	HOTELING COPIER RECEPT	800	28	A
(A)	29	720	HOTELING RECEPT	20/1		20/1	HOTELING RECEPT	720	30	A
(A)	31	720	HOTELING RECEPT	20/1		20/1	HOTELING RECEPT	720	32	A
(A)	33	1331	FCU 4.1	20/1		20/1	SPARE		34	A
(A)	35		SPARE	20/1		20/1	SPARE		36	В
В	37		SPARE	20/1		20/1	SPARE		38	В
В	39		SPARE	20/1		20/1	SPARE		40	В
В	41		SPARE	20/1		20/1	SPARE		42	В
	CON	NECTE	D LOAD 21291				DEMAND LOAD	15646		
1				1	10	000				

P	ANEL	DESIG	NATION: $LL4A5$ (D)			208Y/12	20V 3Ø 4W MOUNTING : SUR	FACE		
L	DCAT	ION: EC	QUIP. HALLWAY EXISTIN	IG PANEI	_	100A M	LO			
*	CIR NO.	LOAD V.A.	BRANCH CIRCUIT- DESCRIP. & LOCATION	C/B SIZE		C/B SIZE	BRANCH CIRCUIT- DESCRIP. & LOCATION	LOAD V.A.	CIR NO.	. *
	1	720	LAB 4-100 BENCH RECEPT AT COL 1.2	20/1		20/1	ENTRY 4-103 RECEPT	360	2	A
	3	720	LAB 4-100 BENCH RECEPT AT COL 1.2	20/1		20/1	SPARE		4	A
(A)	5	720	LAB 4-100 BENCH RECEPT AT COL 1.2	20/1		20/1	SPARE		6	A
(A)	7	900	LAB 4-100 BENCH RECEPT AT COL 5	20/1		20/1	SPARE		8	A
(A)	9	900	LAB 4-100 BENCH RECEPT AT COL 5	20/1		20/1	CUBBY 1 & 2 RECEPT	540	10	A
(A)	11	720	LAB 4-100 BENCH RECEPT AT COL 5	20/1		20/1	CUBBY 1 & 2 RECEPT	540	12	A
(A)	13	540	CUBBY 5 & 6 RECEPT	20/1		20/1	CUBBY 3 & 4 RECEPT	720	14	A
(A)	15	540	CUBBY 5 & 6 RECEPT	20/1		20/1	CUBBY 3 & 4 RECEPT	720	16	A
	17	1080	HALLWAY & FLOW RM CONV. RECEPT	20/1		20/1	EQUIP HALLWAY RECEPT - ICE MAKER	800	18	A
	19	360	EQUIP HALLWAY RECEPT	20/1		20/1	FLOW RM RECEPT	540	20	A
(A)	21	540	FLOW RM RECEPT	20/1		20/1	CONF RM AV RECEPT	180	22	A
(A)	23	720	CONF RM RECEPT	20/1		20/1	CONF RM RECEPT	900	24	A
(A)	25	360	CONF RM FLOOR RECEPT	20/1		20/1	OFFICES RECEPT	1080	26	A
(A)	27	1080	OFFICES RECEPT	20/1		20/1	HOTELING COPIER RECEPT	800	28	A
	29	720	HOTELING RECEPT	20/1		20/1	HOTELING RECEPT	720	30	A
	31	720	HOTELING RECEPT	20/1		20/1	HOTELING RECEPT	720	32	A
	33	1331	FCU 4.1	20/1		20/1	SPARE		34	A
(A)	35		SPARE	20/1		20/1	SPARE		36	В
В	37		SPARE	20/1		20/1	SPARE		38	В
В	39		SPARE	20/1		20/1	SPARE		40	В
В	41		SPARE	20/1		20/1	SPARE		42	В
	CON	NECTER	21291				DEMAND LOAD	15646		
1			MIN ALC RATING		10	000				

PA	ANEL	DESIG	NATI
LC	CAT	ION: EQ	QUIP.
*	CIR NO.	LOAD V.A.	BR DE
$\langle A \rangle$	1	840	LAI
$\langle A \rangle$	3	840	LAI
$\langle A \rangle$	5	840	LAI
$\langle A \rangle$	7	840	LAI
$\langle A \rangle$	9	840	LAI
$\langle A \rangle$	11	840	LAI
$\langle A \rangle$	13	840	LAI
$\langle A \rangle$	15	600	CU
$\langle A \rangle$	17	800	CU
$\langle A \rangle$	19	180	CU
$\langle A \rangle$	21	180	CU
$\langle A \rangle$	23	800	CU
$\langle A \rangle$	25	240	CU
$\langle A \rangle$	27	180	CU
$\langle A \rangle$	29	600	CU
$\langle A \rangle$	31	800	CU
	33	180	CU
B	35	180	CU
B	37		SP
B	39		SP
B	41		SP
	CON	NECTED	D LOA

EXISTING RELOCATED PANEL

EXIS	FING F	RELOCA	TED PANEL								
P/	ANEL	DESIG	NATION: $SL4A2 \langle D \rangle$			208Y/12	20V 3Ø 4W	MOUNTING : SUF	RFACE		
L	CAT	ION: EC	QUIP. HALLWAY EXISTIN	IG PANEL	I	100A M	LO			. 	
*	CIR NO.	LOAD V.A.	BRANCH CIRCUIT- DESCRIP. & LOCATION	C/B SIZE		C/B SIZE	BRANCH CIRCU DESCRIP. & LOC	IT- CATION	LOAD V.A.	CIR NO.	. *
A	1	840	LAB 4-100 BENCH UC REF & FREEZER	20/1		20/1	LAB 4-100 BENCI	H RECEPT	840	2	A
A	3	840	LAB 4-100 BENCH RECEPT	20/1		20/1	LAB 4-100 BENCI	HRECEPT	840	4	A
A	5	840	LAB 4-100 BENCH RECEPT	20/1		20/1	LAB 4-100 BENCI	HRECEPT	840	6	A
A	7	840	LAB 4-100 BENCH RECEPT	20/1		20/1	LAB 4-100 BENCI	HRECEPT	840	8	A
A	9	840	LAB 4-100 BENCH RECEPT	20/1		20/1	LAB 4-100 BENCI	H RECEPT	840	10	A
A	11	840	LAB 4-100 BENCH RECEPT	20/1		20/1	LAB 4-100 BENCI	HRECEPT	840	12	A
A	13	840	LAB 4-100 BENCH RECEPT	20/1		20/1	LAB 4-100 BENCI	HRECEPT	840	14	A
A	15	600	CUBBY 1 RECEPT - REFRIGERATOR	20/1		20/1	CUBBY 1 RECEP	T - INCUBATOR	800	16	A
A	17	800	CUBBY 1 RECEPT - INCUBATOR	20/1		20/1	CUBBY 1 RECEP	T - BIO-SAFETY CABINE	240	18	A
A	19	180	CUBBY 2 RECEPT	20/1		20/1	CUBBY 2 RECEP	Т	180	20	A
A	21	180	CUBBY 2 RECEPT	20/1		20/1	CUBBY 3 RECEP	T - REFRIGERATOR	600	22	A
A	23	800	CUBBY 3 RECEPT - INCUBATOR	20/1		20/1	CUBBY 3 RECEP	T - INCUBATOR	800	24	A
A	25	240	CUBBY 3 RECEPT - BIO-SAFETY CABINET	20/1		20/1	CUBBY 4 RECEF	PT - REFRIGERATOR	600	26	A
A	27	180	CUBBY 4 RECEPT	20/1		20/1	CUBBY 4 FUME H	HOOD	400	28	A
A	29	600	CUBBY 5 RECEPT - REFRIGERATOR	20/1		20/1	CUBBY 5 RECEP	T - INCUBATOR	800	30	A
A	31	800	CUBBY 5 RECEPT - INCUBATOR	20/1		20/1	CUBBY 5 RECEP	T - BIO-SAFETY CABINE	240	32	A
A	33	180	CUBBY 6 RECEPT	20/1		20/1	CUBBY 6 RECEP	Т	180	34	A
В	35	180	CUBBY 6 RECEPT	20/1		20/1	SPARE			36	В
В	37		SPARE	20/1		20/1	SPARE			38	В
В	39		SPARE	20/1		20/1	SPARE			40	В
В	41		SPARE	20/1		20/1	SPARE			42	В
	CONI	NECTE	D LOAD 21340	J			DEM	AND LOAD	21340		
			MIN. A.I.C. RATING		10	0,000					
							-				

¥	CIR	LOAD	BRANCH CIRCUIT-	C/B	C/B	BRANCH CIRCUIT-	LOAD	CIR	
\wedge	NO.	V.A.	DESCRIP. & LOCATION	SIZE	SIZE	DESCRIP. & LOCATION	V.A.	NO.	1
	1	1500	LGTS	20/1	20/1	LGTS-RH4A1	1500	2	
	3	1500	LGTS	20/1	20/1	LTGS LAB 4-100	1993	4	A
A	5	1985	LTS 4-101 TO 4-114	20/1	20/1	LTGS 405A, B, 406 & 407	1000	6	
B	7	1136	FPB 4-1 (LAB 4-100)	15/1	15/1	FPB 4-2 (LAB 4-100)	1136	8	E
в	9	1136	FPB 4-3 (LAB 4-100)	15/1	20/1	SFPB 4-6, 4-7	2300	10	
B	11	1136	FPB 4-4 (LAB 4-100)	15/1	20/1	SPARE		12	
	13		SPARE	20/1	20/1	SPARE		14	
	15		SPARE	20/1	20/1	SPARE		16	
	17		SPARE	20/1	20/1	SPARE		18	
	19							20	
	21	5000	CRU-RM460	30/3	30/3	CRU-RM-460	5000	22	
	23							24	
	25	1500	FCU'S-RM-457, 458	20/1				26	
	27	1500	FCU'S-RM-456-454	20/1	30/3	GEN-CRU-1	5000	28	
	29	1500	FPB-RM-452, 448	20/1				30	
	31		SPACE			SPACE		32	
	33		SPACE			SPACE		34	
	35		SPACE			SPACE		36	
	37		SPACE			SPACE		38	
	39		SPACE			SPACE		40	
	41		SPACE			SPACE		42	

LOCAT			NEW PANFI	100A M			
	LOAD V.A.	BRANCH CIRCUIT- DESCRIP. & LOCATION	C/B SIZE	C/B SIZE	BRANCH CIRCUIT- DESCRIP. & LOCATION	LOAD V.A.	CIF NC
1	1000	EQUP HALLWAY 208V RECEPT	20/2	20/2	EQUP HALLWAY 208V RECEPT	1000	2
3							4
5	1000	EQUP HALLWAY 208V RECEPT	20/2	20/2	EQUP HALLWAY 208V RECEPT	1000	6
7							8
9	720	EQUIP HALLWAY RECEPT	20/1	20/1	FLOW RM RECEPT - REFRIGERATOR	600	1
11	540	EQUIP HALLWAY RECEPT	20/1	20/1	FLOW ROOM RECEPT - INCUBATOR	800	1
13	540	EQUIP HALLWAY RECEPT	20/1	20/1	FLOW RM REC - BIO-SAFETY CABINET	240	1
15	200	CARD READERS	20/1	20/1	FLOW RM RECEPT	360	1
17	360	LAB 4-100 WEST WALL RECEPT	20/1	20/1	CUBBY 2 RECEPT	180	1
19	360	LAB 4-100 WEST WALL RECEPT	20/1	20/1	CUBBY 4 RECEPT	80	2
21	360	LAB 4-100 WEST WALL RECEPT	20/1	20/1	CUBBY 6 RECEPT	80	2
23		SPARE	20/1	20/1	SPARE		2
25		SPARE	20/1	20/1	SPARE		2
27		SPARE	20/1	20/1	SPARE		2
29		SPARE	20/1	20/1	SPARE		3
31		SPACE			SPACE		3
33		SPACE			SPACE		3
35		SPACE			SPACE		3
37		SPACE			SPACE		3
39		SPACE			SPACE		4
41		SPACE			SPACE		4
CON	NECTED	0 LOAD 9420			DEMAND LOAD	9420	_

F	⊃д	NEL SCHEDULE NOTES			
$\langle A \rangle$	=	REUSE EXISTING SPARE CIRCUIT BREAKER OR BREAKER MADE AVAILABLE THROUGH DEMOLITION.			
B	=	REMOVE EXISTING CIRCUIT BREAKER AND PROVIDE NEW CIRCUIT BREAKER AS SHOWN. NEW CIRCUIT BREAKER TO MATCH EXISTING MANUFACTURER AND PANEL A.I.C. RATING CHARACTERISTICS.			
C	=	PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE AS SHOWN. NEW CIRCUIT BREAKER TO MATCH EXISTING MANUFACTURER AND PANEL A.I.C. RATING CHARACTERISTICS.			
$\langle D \rangle$	=	PROVIDE NEW UPDATED, TYPEWRITTEN PANELBOARD DIRECTORY TO REFLECT CHANGES TO EXISTING PANEL.			
NOTE: BRANCH CIRCUITS IN EXISTING PANELS THAT DO NOT HAVE AN $\langle A \rangle \langle B \rangle$ OR $\langle C \rangle$ DESIGNATION ARE EXISTING TO REMAIN.					

NOTES :

- 1- REFER TO DRAWING MPE100 FOR HVAC, PLUMBING/FIRE PROTECTION & ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS & DRAWING LIST.
- 2- LOADS FOR EXISTING BRANCH CIRCUITS IN EXISTING PANELS REPRESENT ESTIMATED LOADS ONLY.
- 3- PANEL SCHEDULES ARE BASED ON EXISTING CONDITIONS OBSERVED DURING ENGINEERING FIELD SURVEY, AND ARE PROVIDED AS SUPPLEMENTAL INFORMATION TO THE FLOOR PLANS ONLY. EXISTING CONDITIONS AND CONDITIONS AS A RESULT OF DEMOLITION MAY VARY FROM WHAT IS SHOWN ON PANEL SCHEDULES. PERFORM ALL WORK AS INDICATED ON FLOOR PLANS, AND COORDINATE BETWEEN ACTUAL PANEL CONDITIONS AND PANELS SHOWN ON DRAWINGS. MOST OF THE SPARES INDICATED IN THE EXISTING PANELS ARE ASSUMED TO HAVE BEEN CREATED BY DEMOLITION. CONTACT ENGINEER IN WRITING IF EXISTING CONDITIONS IN PANELS PREVENT WORK FROM BEING PERFORMED AS INDICATED ON FLOOR PLANS.
- 4- FOR ALL BRANCH PANELS IN SCOPE OF PROJECT, PROVIDE NEW UPDATED, TYPEWRITTEN PANELBOARD DIRECTORIES TO REFLECT CHANGES TO PANELS AS WELL AS ALL EXISTING TO REMAIN CIRCUITS. TRACE EXISTING TO REMAIN CIRCUITS AS NECESSARY IN ORDER TO PROVIDE ADEQUATE LABELING. ALL BREAKERS THAT ARE DETERMINED AS SPARES SHALL BE MARKED AS "SPARE" AFTER WORK IS COMPLETED.

BRANCH CIRCUIT VOLTAGE DROP TABLE - 120V-15A **OR 20A CIRCUITS**

DISTANCE (NOT GREATER THAN)	LOAD (NOT GREATER THAN)						
	290VA	810VA	1330VA	1850VA			
50'-0"	#12	#12	#12	#12			
100'-0"	#12	#12	#10	#10			
150'-0"	#12	#10	#8	#8			
200'-0"	#12	#10	#8	#6			
250'-0"	#12	#8	#6	#4			

120V-15A/20A VOLTAGE DROP NOTES:

- 1. MINIMUM 120V-15A/20A BRANCH CIRCUIT GROUNDED & UNGROUNDED CURRENT CARRYING CONDUCTOR SIZES ARE INDICATED IN TABLE. TABLE ONLY APPLIES TO SINGLE PHASE 120V, 15A & 20A BRANCH CIRCUITS.
- 2. WIRE SIZE SHALL BE UNIFORM FOR AS MUCH OF CIRCUIT LENGTH AS POSSIBLE, BUT MAY BE REDUCED TO #12 WITHIN 25' OF ANY TERMINATING OUTLET, DEVICE
- OR FIXTURE. 3. WIRE SIZES IN TABLE HAVE BEEN CALCULATED ASSUMING POWER FACTOR OF .9
- FOR CIRCUIT. 4. EQUIPMENT GROUNDING CONDUCTORS SHALL BE INCREASED IN SIZE PROPORTIONALLY TO UNGROUNDED CONDUCTORS AS REQUIRED BY NEC 250.122.
 5. FOR LONG LIGHTING CIRCUITS WITH LOADS DISTRIBUTED EVENLY ALONG THE CIRCUIT (SUCH AS A CORRIDOR LIGHTING CIRCUIT), AND WHERE THE HOMERUN
- LENGTH FOR THE CIRCUIT IS LESS THAN 10% OF THE TOTAL CIRCUIT LENGTH, VOLTAGE DROP MAY BE DETERMINED FROM THE TABLES ABOVE USING AN EFFECTIVE DISTANCE OF 1/2 OF THE TOTAL CIRCUIT LENGTH.
- 6. REFER TO NEC INFORMATIVE ANNEX C FOR CONDUIT SIZING.

