<u>A</u> !	BBREVIATIONS	DEMOLITION GENERAL NOTES:	GENERAL NOTES	SYMBOL LEGEND (CONTINUED)		SYN	/IBOL LEGEND	
 ABBREV.	DEFINITION		1. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE	SYMBOL DESCRIPTION Bix4'x3/4" FIRE RETARDANT PLYWOOD BACK BOARD FOR MDF AND IDF	REFER TO SPECIFICATIONS	SYMBOL	DESCRIPTION	REMARK
4 4C	AMPS, AMPERE, AMPERAGE ABOVE COUNTER	A. NOTIFY THE OWNER, IN WRITING, AT LEAST 7 DAYS IN ADVANCE OF ALL REQUIRED SHUTDOWNS ELECTRICAL	THESE DRAWINGS.				LED LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCH
4/C ADA	ALTERNATING CURRENT AMERICANS WITH DISABILITIES ACT	UTILITIES. UPON WRITTEN RECEIPT OF APPROVAL FROM OWNER, SHUTDOWNS SHALL BE PERFORMED AS DIRECTED	2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO THE INSTALLATION OF HIS EQUIPMENT SO AS TO AVOID CONFLICTS DURING CONSTRUCTION	NAPCO X255 SECURITY PANEL - SEE RISER ON E00.05/5.	REFER TO SPECIFICATION		NIGHT LIGHT LED LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCI
۹FF AFG	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE	BY THE OWNER AND SHALL BE CONDUCTED AT NO ADDITIONAL CONTRACT COST. AT THE COMPLETION OF	AND ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE.	CLASSROOM CEILING MOUNTED MOTION DETECTOR		\bigcirc	LED LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SC
	AMPERE INTERRUPTING CURRENT	EACH SHUT DOWN, ALL SERVICES SHALL BE RESTORED SO THAT NORMAL OPERATION OF ALL UTILITIES CAN RESUME	3. ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE SUSPENDED CEILING SYSTEM. REFER TO THE SPECIFICATIONS FOR MORE DETAILED INFORMATION.	WA LR MOTION SENSOR - WALL MOUNTED	REFER TO SPECIFICATION		LED EMERGENCY LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE EIXTURE SO
- NSI ISC	AMERICAN NATIONAL STANDARD INSTITUTE		4. USE OF THE CONDUIT SYSTEM FOR EQUIPMENT GROUNDING SHALL NOT BE ACCEPTABLE. A SEPARATE GREEN					
TS	AUTOMATIC TRANSFER SWITCH	EXTREME CARE SHALL BE EXERCISED IN REGARDS TO	5. IN ALL AREAS WHERE FIRE RATED WALLS, FLOORS AND CEILINGS ARE INSTALLED. ALL PENETRATIONS OF	KP NUMERICAL REMOTE SECURITY KEYPAD, LOCATE AT +60" AFF.	REFER TO SPECIFICATION	•	LINEAR LIGHTING FIXTURE	SEE FIXTURE S
WG	AMERICAN WIRE GUAGE	AND ELECTRICAL SERVICES WHICH WILL REMAIN. REPAIR,	ELECTRICAL CONDUITS OR OTHER RELATED ELECTRICAL MATERIAL SHALL BE PROPERLY SEALED WITH APPROVED FIRE RATED MATERIALS TO MAINTAIN THE RATINGS OF THE BUILDING CONSTRUCTION.	CR EXTERNAL DOOR SECURITY CARD READER, +48" TO TOP OF BOX	REFER TO SPECIFICATION		BATTERY POWERED EMERGENCY FIXTURE - WALL MOUNTED	SEE FIXTURE S
3FC	BUILDING ADD TMATION STSTEM BELOW FINISHED CEILING	OWNER/ARCHITECT/ENGINEER ALL EXISTING WORK	6. ALL FUSES, DISCONNECT SWITCHES, AND BREAKER SIZES SHOWN FOR MECHANICAL/PLUMBING/FIRE PROTECTION	ACP S2 SECURITY CARD ACCESS CONTROL SYSTEM	REFER TO SPECIFICATION		EXIT LIGHT - ARROW INDICATES DIRECTION & SHADING INDICATES ILLUMINATED	SEE FIXTURE
, B		NEW WORK.	EQUIPMENT SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT, WITH THE EQUIPMENT SUPPLIER AND MECHANICAL/PLUMBING CONTRACTOR.	CAM # VIDEO SURVEILLANCE CAMERA - "CAM #" INDICATES CAMERA NUMBER.	REFER TO SPECIFICATION) C	SINGLE POLE TOGGLE SWITCH - +48" ABOVE FINISHED FLOOR TO TOP	HUBBELL 1221
KT		C. ALL EXISTING WIRING, EQUIPMENT, CONDUITS AND	7. ALL WORK AND MATERIAL SHALL BE PROVIDED IN ACCORDANCE WITH STATE, LOCAL AND NATIONAL CODES AND	PROVIDE CAT-6 WIRING TO CAMERA LOCATION. REFER TO DETAILS E00.07/3 AND E00.05/8.		5	OF OUTLET, UNLESS OTHERWISE NOTED.	97071 COVER EQUALS BY LE
20 20	COPPER	INSTALLATION (SHOWN OR OTHERWISE) SHALL BE	8 THE NEW FIRE ALARM FOUIPMENT SHOWN SHALL BE PROVIDED IN ACCORDANCE WITH THE MANUFACTURER'S	ST DIGITAL TIME SWITCH/BACKLIT LED TIMER COUNTDOWN WITH ADJUSTMENTS	WATTSTOPPER TS-400 OR	S ₃	3-WAY SWITCH - INSTALL AT +48" ABOVE FINISHED FLOOR TO TOP OF OUTLET	HUBBELL 122 WITH 97071 C
DC	DIMMING OR DIMMER DIGITAL CONTROLS	REMOVED. ALL EXISTING MATERIALS AND EQUIPMENT WHICH ARE REMOVED AND DESIRED BY THE OWNER, OR	REQUIREMENTS. PROVIDE ALL WIRING AS REQUIRED FOR A COMPLETE SYSTEM.	FROM 5 MINUTES TO 12 HOURS.	EQUAL			EQUALS BY L
B C	DISTRIBUTION BOARD DIRECT CURRENT	ARE INDICATED TO REMAIN AS THE PROPERTY OF THE OWNER, SHALL BE DELIVERED TO THE OWNER ON THE	9. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL CEILING TYPES AND FINISHES BEFORE PURCHASE OF ANY LIGHT FIXTURES SO THAT THE PROPER TRIM WILL BE PROVIDED FOR THE CEILING TO BE INSTALLED. ANY	120/208 VOLT PANELBOARD WITH NEUTRAL AND GROUND	REFER TO SPECIFICATION	S4	4-WAY SWITCH - INSTALL AT +48" ABOVE FINISHED FLOOR TO TOP OF OUTLET	HUBBELL 1224 WITH 97071 C
L ISC	DAY-LIGHTING DISCONNECT SWITCH	PREMISES BY THE CONTRACTOR WHERE DIRECTED BY THE ARCHITECT. ALL OTHER MATERIALS AND EQUIPMENT	DIFFERENCES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.					EQUALS BY L
СВ	EMERGENCY ENCLOSED CIRCUIT BREAKER	WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY THE	10. EACH CONTRACTOR SHALL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE	BUS ACCESSORIES.	REFER TO SPECIFICATION	Sĸ	SINGLE POLE KEY SWITCH - INSTALL AT +48" ABOVE FINISHED FLOOR TO TOP OF OUTLET, UNLESS OTHERWISE NOTED.	HUBBELL, LEV STAINLESS ST
WC X	ELECTRIC WATER COOLER	CONTRACTOR FROM THE PREMISES.	ENGINEER. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.	SPD SURGE PROTECTIVE DEVICE	REFER TO SPECIFICATION			KEYS PER SW
TL		D. EXISTING CONDITIONS (PRESENCE AND LOCATION OF PANEL BOARDS, LIGHTING FIXTURES, RECEPTACLES	11. ALL JUNCTION BOXES AND CONDUIT RUNS (WITH OR WITHOUT WIRES) SHALL BE COLOR CODED WITH PAINT, IN	TX DRY TYPE STEP DOWN TRANSFORMER 480-120/208V 3 PHASE	REFER TO SPECIFICATION	LC#	MECHANICALLY HELD LIGHTING CONTACTOR. # INDICATES CONTACTOR NUMBER. PROVIDE NUMBER OF CONTACTS AS REQUIRED. PROVIDE NUMBER. PROVIDE NUMBER OF CONTACTS AS REQUIRED. PROVIDE	SQUARE D CL PROVIDE # C
		EQUIPMENT, MATERIALS AND CIRCUITING) INDICATED ARE	12 THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE	DISCONNECT SWITCH, HEAVY DUTY.	REFER TO SPECIFICATION		E801/1.	SIEMENS OR
DR		RECORD DRAWINGS AND FIELD SURVEYS AND ARE NOT	REVIEWED AND COORDINATED WITH THE ARCHITECT AND OWNER PRIOR TO INSTALLATION, FOR USE WITH THE ACTUAL EQUIPMENT, CASEWORK AND MILL WORK TO BE FURNISHED	WIRING AND CONDUIT INSTALLED CONCEALED IN WALL SPACE OR ABOVE	REFER TO SPECIFICATION	63	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH	SEE DETAILS
	GENERATOR ALARM PANEL	CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL	13. ALL WIRE AND CONDUIT SIZES ARE BASED ON 75°C THHN OR THWN WIRE UNLESS OTHERWISE NOTED.	FINISHED CEILING			15 MINUTES. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.	SPECIFICATIO
	GROUNDING ELECTRODE CONDUCTOR	TO STARTING ALL WORK.	14. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE UTILITY POWER COMPANY THE WORK REQUIRED FOR	UNSWITCHED WIRING AND CONDUIT LEG ON LIGHTING PLANS.	REFER TO SPECIFICATION		CORNER MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH	SEE DETAILS
FI FCI	GROUND FAULT INTERRUPTER GROUND FAULT CIRCUIT INTERRUPTER	E. EXISTING EQUIPMENT SIZES NOTED ARE FOR THE	CONNECTION TO THE UTILITY'S NEW TRANSFORMER METERING, ETC.	UNDER GROUND WIRING AND CONDULT ON SITE PLANS.			15 MINUTES. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.	SPECIFICATIO
iFEP iFP	GROUND FAULT EQUIPMENT PROTECTION	WARRANTED TO BE CORRECT. CONTRACTOR SHALL	15. WHERE MULTIPLE SWITCHES ARE SHOWN IN THE SAME LOCATION (EXCEPT CLASSROOM), THEY SHALL BE GANGED TOGETHER IN ONE MULTIPLE GANG BOX WITH MATCHING COVER AND PARTITION (IF REQUIRED).	HOME RUN CIRCUIT TO PANELBOARD	REFER TO SPECIFICATIONS	Sos	PASSIVE INFRARED WALL SWITCH SENSOR - COVERAGE: MAJOR MOTION	SEE DETAILS
GND GRS	GROUND GALVANIZED RIGID STEEL	VERIFY ALL SIZES IN THE FIELD IF EQUIPMENT IS IN PROJECT SCOPE.	THE ELECTRICAL CONTRACTOR SHALL LOOK AT BOTH POWER AND LIGHTING PLAN TO DETERMINE WHICH SWITCH IS APPLICABLE.	CONDUIT SLEEVES - SIZE AND QUANTITY AS SHOWN ON PLANS			35'x30', MINOR MOTION 20'x15'. TIME DELAYS OF NO LESS THAN 15 MINUTES. MOUNT AT +48" TO TOP OF OUTLET BOX. INSTALL AS PER	SPECIFICATI
H DA	HAND HOLE HAND-OFF AUTOMATIC	F. WHEN EXISTING MECHANICAL AND ELECTRICAL WORK IS	16 THE LOCATION OF ALL WALL MOUNTED DEVICES INCLUDING MOUNTING HEIGHTS, SHALL BE FIELD VERIFIED	JUNCTION BOX WITH REMOVABLE COVER - SIZE PER NATIONAL				
Þ EE	HORSEPOWER INSTITUTE OF ELECTRICAL AND	REMOVED, ALL CONDUITS, WIRING AND MATERIALS SHALL BE REMOVED TO A POINT BELOW FINISHED FLOORS OR	WITH THE ARCHITECT PRIOR TO INSTALLATION.	ELECTRICAL CODE		SD	120/277 VOLT LINE VOLTAGE 0-10V (1500VA) SLIDE DIMMER SWITCH WITH ON/OFF - COMPATIBLE WITH LED FIXTURE - MOUNT AT +48" TO TOP OF OUTLET BOX	#IP710-LF-Z
à	ELECTRONICS ENGINEERS ISOLATED GROUND	BEHIND FINISHED WALLS AND CAPPED. SUCH POINTS SHALL BE FAR ENOUGH BEHIND FINISHED SURFACES TO ALLOW	17. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE TELEPHONE AND CABLE TV COMPANIES THE LOCATION AND ROUTING OF THE UNDERGROUND INCOMING SERVICE. THE ELECTRICAL CONTRACTOR SHALL			SM		
CMIL V	THOUSAND CIRCULAR MILS KILOVOLT	FOR THE INSTALLATION OF THE NORMAL THICKNESS OF FINISHED MATERIAL.	PAY FOR ALL NECESSARY CHARGES FOR INSTALLATION OF UNDERGROUND SERVICE, AS SHOWN ON THE PLANS.				120 VOLT, 20 AMP, MOTOR RATED TOGGEL DISCONNECT SWITCH WITT JONETION BE	
VA W	KILOVOLT AMPS KILOWATT	G. EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT,	18. WHERE ELECTRICAL RACEWAY PENETRATES EXTERIOR WALLS OR THE ROOF, THEY SHALL BE PROPERLY			S _{M2}	TWO POLE MOTOR RATED TOGGLE DISCONNECT SWITCH WITH JUNCTION BOX	HUBBELL, P&
WH C	KILOWATT HOURS	CONDUIT, WIRING, DEVICES, AND MATERIALS AFFECTED BY DEMOLITION OR NEW WORK INSTALLATION AND REQUIRED	SEALED WITH METHODS APPROVED BY THE ENGINEER. SUBMIT DETAIL OF PROPOSED SEALING METHODS.				DUPLEX TAMPER RESISTANT GROUNDING TYPE RECEPTACLE - AT +16" ABOVE	HUBBELL 526
s SIG	LOUD SPEAKER LONG TIME, SHORT TIME, INSTANTANEOUS	TO REMAIN IN SERVICE SHALL BE REINSTALLED OR SUPPORTED AS REQUIRED IN ACCORDANCE WITH NEW	19. ALL EXTERIOR BUILDING LIGHTS AND EMERGENCY LIGHTING SHALL BE WIRED WITH #10 AWG, UNLESS OTHERWISE NOTED.				TWO DUPLEX TAMPER RESISTANT GROUNDING TYPE RECEPTACLES IN A DOUBLE	HUBBELL 526
XX	AND GROUND FAULT PROTECTION	WORK SPECIFICATIONS. ALL WORK SHALL BE COMPLETED	20. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CHAIN HUNG FIXTURES LOCATED IN MECHANICAL OR OTHER SPACES WITH OTHER TRADES, SO AS NOT TO CONFLICT WITH OTHER EQUIPMENT.			_₩	GANG BOX MOUNT AT +16" AFF TO BOTTOM OF OUTLET. PROVIDE WITH STAINLESS STEEL COVER UON.	COVER. EQU
CB CC	MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER		21. ALL EMERGENCY LIGHTING, EXIT SIGNS AND EMERGENCY NIGHT LIGHTS SHALL BE WIRED AHEAD OF ANY SWITCH AND/OR BUILDING AUTOMATION SYSTEM.			-	TAMPER RESISTANT GFCI DUPLEX RECEPTACLE -GROUND FAULT INTERRUPTION	HUBBELL GF
DP IN	MAIN DISTRIBUTION PANEL	AND MATERIALS SHOWN "LIGHT" ARE EXISTING TO REMAIN	22. WHERE CONDUIT OR OUTLET BOXES CANNOT BE INSTALLED IN EXISTING WALLS FOR NEW DEVICES. THEN PROVIDE			GFI	TYPE INSTALL AT +16" ABOVE FINISHED FLOOR TO BOTTOM OF OUTLET, UON.	EQUALS: LEV
H	MAN HOLE MAIN LUGS ONLY	AND DASHED" ARE EXISTING TO BE DEMOLISHED.	AND INSTALL SURFACE MOUNTED WIREMOLD RACEWAYS. CONFIRM ALL WIREMOLD WITH ARCHITECT PRIOR TO INSTALLATION.			=⊖GFI WP		HUBBELL GF
TS	MANUAL TRANSFER SWITCH	I. ENSURE THAT ALL ELECTRICAL WORK IS DONE DE-	23. OUTLET BOXES ON OPPOSITE SIDES OF THE FIRE RESISTANT WALL OR SHAFT				BOTTOM OF OUTLET BOX, UNLESS OTHERWISE NOTED, WITH HEAVY DUTY GRAY	COVER EQUA
C	NORMALLY CLOSED	EQUIPMENT IS OPENED EXPOSING LIVE PARTS, BREAKERS	ENCLOSURE RATED TWO HOURS OR LESS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24".				DATA OUTLET - REFER TO E03 SERIES PLANS AND	LEVITON, P8
EMA	NATIONAL ELECTRIC CODE NATIONAL ELECTRICAL MANUFACTURER'S	CONNECTIONS ARE MODIFIED. ALL POWER AT THE PANEL	24. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ACCESS PANELS AS REQUIRED FOR ELECTRICAL CODE COMPLIANCE			7	DATA SCHEDULES FOR QUANTITY OF CAT-6 DROPS AT EACH OUTLET.	SINGLE GAN CONDUIT ST
	NEUTRAL	PRIOR TO WORK BEING DONE.	EACH ROOM WITH A DRYWALL CEILING SHALL HAVE A MINIMUM OF ONE ACCESS DOOR PROVIDED BY THE ELECTRICAL CONTRACTOR THE DRYWALL SUBCONTRACTOR WILL PROVIDE THE REQUIRED FRAMED OPENING AND				120 VOLT, 20 AMP FACELESS GFI DEVICE	CEILING
IFPA IIC	NOT IN CONTRACT	J. ALL TESTING, TROUBLESHOOTING AND VERIFICATION OF	INSTALL THE ACCESS DOORS.			WAP	WIRELESS ACCESS POINT, WITH CAT-6A DATA DROP. REFER TO PLANS FOR LOCATIONS.	SEE SPECIFI
ю)/Н	OVER HEAD	DEENERGIZATION IS TO BE DONE IN ACCORDANCE WITH NFPA 70E INCLUDING ESTABLISHING, ISOLATING IF	25. PROVIDE FIVE (5)-3/4" SPARE CONDUITS IN RECESSED ELECTRICAL PANELS FOR FUTURE ACCESS.			PA	EXISTING BOGEN MULTI-COM 2000 INTERCOM HEAD-END UNIT	
, РА	POLE PUBLIC ADDRESS	REQUIRED, SHOCK PROTECTIVE AND ARC FLASH PROTECTIVE APPROACH BOUNDARIES AND WEARING	 ALL UNDERGROUND CONDUITS SHALL BE IDENTIFIED ON ASBUILT PLANS WITH DIMENSIONS LOCATING THE CONDUITS AND THEIR RESPECTIVE BURIAL DEPTHS. 			- WP	WALL MOUNTED LOUDSPEAKER. EXACT MOUNTING HEIGHT FOR OUTDOOR	SEE SPECIFIC
B C	PULL BOX PHOTOCELL	PERSONAL PROTECTIVE EQUIPMENT APPROPRIATE FOR THE HAZARD.	27. CONDUCTORS FOR BRANCH CIRCUITS SHALL BE SIZED TO PREVENT VOLTAGE DROP EXCEEDING 3% AT THE			LS WG	SPEAKERS TO BE COORDINATED WITH ARCHITECT. WP=WEATHERPROOF. MOUNT ON INTERIOR AT +88" AFF.	
H T	PHASE POTENTIAL TRANSFORMER POTENTIAL TRANSFORMER	K. PRIOR TO THE REMOVAL OF A CIRCUIT FROM A	MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST OUTLET SHALL			LS	RECESSED CEILING SPEAKER, WITH BACK BOX AND ACCESSORIES - MATCH	SEE SPECIFIC
IC ISC	RECEPTACLE CONTACTOR RIGID STEEL CONDUIT	PANELBOARD, THE CONTRACTOR SHALL VERIFY THAT NO EXISTING LOADS REMAIN ON THAT CIRCUIT. IF	A WHERE THE BRANCH CIRCUIT CONDUCTOR LENGTH FROM THE PANEL TO THE FIRST OUTLET ON A 277V CIRCUIT					
EC PD	SECURITY SURGE PROTECTIVE DEVICE	UNEXPECTED LOADS REMAIN ON THE CIRCUIT, NOTIFY EOR FOR DIRECTIONS TO PROCEED. ONCE CIRCUITS HAVE BEEN	EXCEEDS 125'-0" THE BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET SHALL NOT BE SMALLER THAN #10AWG. INCREASE THE BRANCH CIRCUIT CONDUCTOR SIZE AN ADDITIONAL WIRE SIZE FOR			DDC	HVAC CONTROL PANEL PROVIDED BY HVAC CONTRACTOR	
W WBD	SWITCH SWITCHBOARD	VERIFIED TO BE UNDER NO LOAD, BREAKERS IN THE CORRESPONDING PANELBOARD SHALL BE FLIPPED TO THE	EACH ADDITIONAL 125' FOR THE ENTIRE CIRCUIT. THE GROUND CONDUCTOR SIZE SHALL BE INCREASED PROPORTIONALLY TO THE INCREASED PHASE CONDUCTORS AS PER NEC 2020 250.122 (B).			AMP	FIRE ALARM SYSTEM AMPLIFIER CABINET	REFER TO SE
WGR	SWITCHGEAR TIME CLOCK	OFF' POSITION AND MARKED AS SPARE AND READY FOR FUTURE WORK. ALL CONDUIT AND WIRING SHALL BE	B. WHERE THE CONDUCTOR LENGTH FROM THE PANEL TO THE FIRST OUTLET ON A 120V CIRCUIT EXCEED				FIRE ALARM SYSTEM NOTIFICATION APPLIANCE BOOSTER CABINET	REFER TO S
EMP GB	TEMPORARY TECHNOLOGY GROUND BAR	REMOVED BACK TO SOURCE.	50'-0" THE BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET SHALL NOT BE SMALLER THAN #10AWG. INCREASE THE BRANCH CIRCUIT CONDUCTOR SIZE AN ADDITIONAL WIRE SIZE FOR			VFD	VARIABLE FREQUENCY DRIVE FURNISHED BY HVAC CONTROLS CONTRACTOR AND INSTALLED/WIRED BY THE ELECTRICAL CONTRACTOR	REFER TO SE
Г GMB ГТВ	TECHNOLOGY MAIN GROUND BAR TELEPHONE TERMINAL BOARD	L. UPDATE PANEL SCHEDULES TO REFLECT NEW AND CHANGED LOAD, ALL PANEL SCHEDULES SHALL BE	EACH ADDITIONAL 125' FOR THE ENTIRE CIRCUIT. THE GROUND CONDUCTOR SIZE SHALL BE INCREASED PROPORTIONALLY TO THE INCREASED PHASE CONDUCTORS AS PER NEC 2020 250.122 (B).			IDF	IDF DATA RACK PROVIDED BY CONTRACTOR	REFER TO SI
V V	TELEVISION	COMPUTER GENERATED.	28. THE CONTRACT DOCUMENTS ARE COMPLIMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE BINDING AS IF REQUIRED BY			TGB		REFER TO SI
J/C	UNDER COUNTER	M. EXISTING FIRE ALARM SYSTEM SHALL BE MAINTAINED AND	ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.				REFER TO DETAILS E502/6 AND E505/5	
IGE		TEMP EXISTING DEVICES TO ALLOW DEMOLITION OF	29. ALL CONDUIT SHALL BE MINIMUM 3/4".			••	CONDUITS SLEEVES TURN DOWN TO CEILING CAVITY BELOW.	
						▼	SINGLE GANG VOICE OUTLET WITH 1" CONDUIT STUBBED ABOVE NEAREST	
	VOLTS, VOLTAGE						SYSTEM. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH SYSTEM PROVIDED. SEE DETAIL E00.08/3	
гU VG			CONDUITS AND PIPING SHALL BE CONCEALED IN BULKHEADS AND ABOVE CEILINGS AND NOT ROUTED THROUGH OPEN CEILINGS. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR THE LOCATION OF OPEN CEILINGS. WHEN			S	LIGHTING OVERRIDE SWITCH - PROVIDED AND WIRED BY MECHANICAL CONTROLS	
FER	TRANSFER		CONDUITS ARE REQUIRED TO BE RUN EXPOSED, THEY ARE TO RUN TIGHT TO STRUCTURE AND BE PAINTED TO MATCH THE STRUCTURE.			- OK	CONTRACTOR	MECHANICAL SEQUENCE OF
хнмк	IKANSFORMER			ELECTRICAL SYSTEM AND EQUIPMENT		1		

ITION GENERAL NOTES:

- OWNER, IN WRITING, AT LEAST 7 DAYS IN ALL REQUIRED SHUTDOWNS ELECTRICAL PON WRITTEN RECEIPT OF APPROVAL FROM JTDOWNS SHALL BE PERFORMED AS DIRECTED IER AND SHALL BE CONDUCTED AT NO CONTRACT COST. AT THE COMPLETION OF DOWN, ALL SERVICES SHALL BE RESTORED SO L OPERATION OF ALL UTILITIES CAN RESUME.
- KING IN AND AROUND THE EXISTING BUILDING, ARE SHALL BE EXERCISED IN REGARDS TO I OF THE EXISTING STRUCTURE, MECHANICAL ICAL SERVICES WHICH WILL REMAIN. REPAIR, R RESTORE TO THE SATISFACTION OF THE HITECT/ENGINEER ALL EXISTING WORK THE PERFORMANCE OF DEMOLITION AND/OR
- G WIRING, EQUIPMENT, CONDUITS AND NOT REQUIRED FOR RE-USE OR RE-N (SHOWN OR OTHERWISE) SHALL BE LL EXISTING MATERIALS AND EQUIPMENT REMOVED AND DESIRED BY THE OWNER, OR ED TO REMAIN AS THE PROPERTY OF THE ALL BE DELIVERED TO THE OWNER ON THE Y THE CONTRACTOR WHERE DIRECTED BY THE ALL OTHER MATERIALS AND EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF ACTOR AND SHALL BE REMOVED BY THE R FROM THE PREMISES.
- NDITIONS (PRESENCE AND LOCATION OF DS, LIGHTING FIXTURES, RECEPTACLES, MATERIALS AND CIRCUITING) INDICATED ARE IFORMATION OBTAINED FROM AVAILABLE AWINGS AND FIELD SURVEYS AND ARE NOT TO BE COMPLETE OR CORRECT. R SHALL FIELD VERIFY EXACT LOCATION OF ALL QUIPMENT AND MATERIALS IN THE FIELD PRIOR G ALL WORK.
- UIPMENT SIZES NOTED ARE FOR THE CE OF THE CONTRACTOR ONLY AND ARE NOT TO BE CORRECT. CONTRACTOR SHALL SIZES IN THE FIELD IF EQUIPMENT IS IN PROJECT
- ING MECHANICAL AND ELECTRICAL WORK IS LL CONDUITS, WIRING AND MATERIALS SHALL D TO A POINT BELOW FINISHED FLOORS OR SHED WALLS AND CAPPED. SUCH POINTS SHALL UGH BEHIND FINISHED SURFACES TO ALLOW TALLATION OF THE NORMAL THICKNESS OF TERIAL.
- CHANICAL AND ELECTRICAL EQUIPMENT, IRING, DEVICES, AND MATERIALS AFFECTED BY OR NEW WORK INSTALLATION AND REQUIRED N SERVICE SHALL BE REINSTALLED OR AS REQUIRED IN ACCORDANCE WITH NEW IFICATIONS. ALL WORK SHALL BE COMPLETED SFACTION OF THE OWNER.
- ON DEMOLITION DRAWINGS, ALL EQUIPMENT ALS SHOWN "LIGHT" ARE EXISTING TO REMAIN JIPMENT AND MATERIALS SHOWN AS "HEAVY D" ARE EXISTING TO BE DEMOLISHED.
- AT ALL ELECTRICAL WORK IS DONE DE-SPECIFICALLY WHERE ELECTRICAL IS OPENED EXPOSING LIVE PARTS, BREAKERS ED OR INSTALLED OR WHERE ELECTRICAL NS ARE MODIFIED. ALL POWER AT THE PANEL JRE SHALL BE DE-ENERGIZED AT ITS SOURCE, ORK BEING DONE.
- , TROUBLESHOOTING AND VERIFICATION OF ATION IS TO BE DONE IN ACCORDANCE WITH LUDING ESTABLISHING, ISOLATING IF SHOCK PROTECTIVE AND ARC FLASH APPROACH BOUNDARIES AND WEARING ROTECTIVE EQUIPMENT APPROPRIATE FOR
- E REMOVAL OF A CIRCUIT FROM A D, THE CONTRACTOR SHALL VERIFY THAT NO ADS REMAIN ON THAT CIRCUIT. IF D LOADS REMAIN ON THE CIRCUIT. NOTIFY EOR IONS TO PROCEED. ONCE CIRCUITS HAVE BEEN BE UNDER NO LOAD, BREAKERS IN THE IDING PANELBOARD SHALL BE FLIPPED TO THE ON AND MARKED AS SPARE AND READY FOR RK. ALL CONDUIT AND WIRING SHALL BE ACK TO SOURCE.
- IEL SCHEDULES TO REFLECT NEW AND DAD. ALL PANEL SCHEDULES SHALL BE GENERATED.
- RE ALARM SYSTEM SHALL BE MAINTAINED AND URING DEMOLITION. CONTRACTOR SHALL NG DEVICES TO ALLOW DEMOLITION OF NDUIT AND WIRING.

	GENERAL NOTES	SYM	IBOL LEGEND (CONTINUED)	
		SYMBOL	DESCRIPTION	REMARKS
1.	THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE THESE DRAWINGS.		8'x4'x3/4" FIRE RETARDANT PLYWOOD BACK BOARD FOR MDF AND IDF CLOSETS	REFER TO SPECIFICATIONS
2.	THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO THE INSTALLATION OF HIS EQUIPMENT SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE.	SEC MD	NAPCO X255 SECURITY PANEL - SEE RISER ON E00.05/5. CLASSROOM CEILING MOUNTED MOTION DETECTOR	REFER TO SPECIFICATION REFER TO SPECIFICATION
3.	ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE SUSPENDED CEILING SYSTEM. REFER TO THE SPECIFICATIONS FOR MORE DETAILED INFORMATION.	WA LR		REFER TO SPECIFICATION
4.	USE OF THE CONDUIT SYSTEM FOR EQUIPMENT GROUNDING SHALL NOT BE ACCEPTABLE. A SEPARATE GREEN GROUND WIRE SHALL RUN WITH THE CIRCUIT CONDUCTORS IN EACH CIRCUIT.		WA = WIDE ANGLE, LR = LONG RANGE	
5.	IN ALL AREAS WHERE FIRE RATED WALLS, FLOORS AND CEILINGS ARE INSTALLED, ALL PENETRATIONS OF ELECTRICAL CONDUITS OR OTHER RELATED ELECTRICAL MATERIAL SHALL BE PROPERLY SEALED WITH APPROVED FIRE RATED MATERIALS TO MAINTAIN THE RATINGS OF THE RUIN DING CONSTRUCTION		EXTERNAL DOOR SECURITY CARD READER, +48" TO TOP OF BOX	REFER TO SPECIFICATION
6.	ALL FUSES, DISCONNECT SWITCHES, AND BREAKER SIZES SHOWN FOR MECHANICAL/PLUMBING/FIRE PROTECTION EQUIPMENT SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT, WITH THE EQUIPMENT	ACP	REFER TO DETAILS E00.07/5, 6 AND 7. S2 SECURITY CARD ACCESS CONTROL SYSTEM	REFER TO SPECIFICATION
7.	SUPPLIER AND MECHANICAL/PLUMBING CONTRACTOR. ALL WORK AND MATERIAL SHALL BE PROVIDED IN ACCORDANCE WITH STATE, LOCAL AND NATIONAL CODES AND	CAM #	VIDEO SURVEILLANCE CAMERA - "CAM #" INDICATES CAMERA NUMBER. PROVIDE CAT-6 WIRING TO CAMERA LOCATION. REFER TO DETAILS F00 07/3 AND F00 05/8	REFER TO SPECIFICATION
8.	ORDINANCES. THE NEW FIRE ALARM EQUIPMENT SHOWN SHALL BE PROVIDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. PROVIDE ALL WIRING AS REQUIRED FOR A COMPLETE SYSTEM.	Sτ	DIGITAL TIME SWITCH/BACKLIT LED TIMER COUNTDOWN WITH ADJUSTMENTS FROM 5 MINUTES TO 12 HOURS.	WATTSTOPPER TS-400 OR EQUAL
9.	THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL CEILING TYPES AND FINISHES BEFORE PURCHASE OF ANY LIGHT FIXTURES SO THAT THE PROPER TRIM WILL BE PROVIDED FOR THE CEILING TO BE INSTALLED. ANY	21	120/208 VOLT PANELBOARD WITH NEUTRAL AND GROUND BUS ACCESSORIES.	REFER TO SPECIFICATION
10.	EACH CONTRACTOR SHALL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE	[2222]	277/480 VOLT PANELBOARD WITH NEUTRAL AND GROUND BUS ACCESSORIES.	REFER TO SPECIFICATION
	ENGINEER. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.	SPD	SURGE PROTECTIVE DEVICE	REFER TO SPECIFICATION
11.	ALL JUNCTION BOXES AND CONDUIT RUNS (WITH OR WITHOUT WIRES) SHALL BE COLOR CODED WITH PAINT, IN ACCORDANCE WITH SPECIFICATION 260553.	ТХ	DRY TYPE STEP DOWN TRANSFORMER 480-120/208V 3 PHASE	REFER TO SPECIFICATION
12.	THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT AND OWNER PRIOR TO INSTALLATION, FOR USE WITH THE ACTUAL EQUIPMENT, CASEWORK AND MILLWORK TO BE FURNISHED.		DISCONNECT SWITCH, HEAVY DUTY. WIRING AND CONDUIT INSTALLED CONCEALED IN WALL SPACE OR ABOVE	REFER TO SPECIFICATION REFER TO SPECIFICATION
13.	ALL WIRE AND CONDUIT SIZES ARE BASED ON 75°C THHN OR THWN WIRE UNLESS OTHERWISE NOTED.		FINISHED CEILING	
14.	THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE UTILITY POWER COMPANY THE WORK REQUIRED FOR CONNECTION TO THE UTILITY'S NEW TRANSFORMER METERING, ETC.		UNDER FLOOR WIRING AND CONDUIT ON POWER PLANS. UNDER GROUND WIRING AND CONDUIT ON SITE PLANS.	
15.	WHERE MULTIPLE SWITCHES ARE SHOWN IN THE SAME LOCATION (EXCEPT CLASSROOM), THEY SHALL BE GANGED TOGETHER IN ONE MULTIPLE GANG BOX WITH MATCHING COVER AND PARTITION (IF REQUIRED). THE ELECTRICAL CONTRACTOR SHALL LOOK AT BOTH POWER AND LIGHTING PLAN TO DETERMINE WHICH		HOME RUN CIRCUIT TO PANELBOARD	REFER TO SPECIFICATIONS
	SWITCH IS APPLICABLE.		CONDUIT SLEEVES - SIZE AND QUANTITY AS SHOWN ON PLANS	
16.	THE LOCATION OF ALL WALL MOUNTED DEVICES, INCLUDING MOUNTING HEIGHTS, SHALL BE FIELD VERIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION.		ELECTRICAL CODE	
17.	THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE TELEPHONE AND CABLE TV COMPANIES THE LOCATION AND ROUTING OF THE UNDERGROUND INCOMING SERVICE. THE ELECTRICAL CONTRACTOR SHALL PAY FOR ALL NECESSARY CHARGES FOR INSTALLATION OF UNDERGROUND SERVICE, AS SHOWN ON THE PLANS.			
18.	WHERE ELECTRICAL RACEWAY PENETRATES EXTERIOR WALLS OR THE ROOF, THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ENGINEER. SUBMIT DETAIL OF PROPOSED SEALING METHODS.			
19.	ALL EXTERIOR BUILDING LIGHTS AND EMERGENCY LIGHTING SHALL BE WIRED WITH #10 AWG, UNLESS OTHERWISE NOTED.			
20.	THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CHAIN HUNG FIXTURES LOCATED IN MECHANICAL OR OTHER SPACES WITH OTHER TRADES, SO AS NOT TO CONFLICT WITH OTHER EQUIPMENT.			
21.	ALL EMERGENCY LIGHTING, EXIT SIGNS AND EMERGENCY NIGHT LIGHTS SHALL BE WIRED AHEAD OF ANY SWITCH AND/OR BUILDING AUTOMATION SYSTEM.			
22.	WHERE CONDUIT OR OUTLET BOXES CANNOT BE INSTALLED IN EXISTING WALLS FOR NEW DEVICES, THEN PROVIDE AND INSTALL SURFACE MOUNTED WIREMOLD RACEWAYS. CONFIRM ALL WIREMOLD WITH ARCHITECT PRIOR TO INSTALLATION.			
23.	OUTLET BOXES ON OPPOSITE SIDES OF THE FIRE RESISTANT WALL OR SHAFT ENCLOSURE RATED TWO HOURS OR LESS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24".			
24.	ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ACCESS PANELS AS REQUIRED FOR ELECTRICAL CODE COMPLIANCE AND TO ACCESS ANY INSTALLATION THAT WILL REQUIRE FUTURE MAINTENANCE. THESE DOORS SHALL BE 20" X 20". EACH ROOM WITH A DRYWALL CEILING SHALL HAVE A MINIMUM OF ONE ACCESS DOOR PROVIDED BY THE ELECTRICAL CONTRACTOR. THE DRYWALL SUBCONTRACTOR WILL PROVIDE THE REQUIRED FRAMED OPENING AND INSTALL THE ACCESS DOORS.			
25.	PROVIDE FIVE (5)-3/4" SPARE CONDUITS IN RECESSED ELECTRICAL PANELS FOR FUTURE ACCESS.			
26.	ALL UNDERGROUND CONDUITS SHALL BE IDENTIFIED ON ASBUILT PLANS WITH DIMENSIONS LOCATING THE CONDUITS AND THEIR RESPECTIVE BURIAL DEPTHS.			
27.	CONDUCTORS FOR BRANCH CIRCUITS SHALL BE SIZED TO PREVENT VOLTAGE DROP EXCEEDING 3% AT THE FARTHEST OUTLET OF POWER, HEATING AND LIGHTING LOADS, OR ANY COMBINATION OF SUCH LOADS. THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST OUTLET SHALL NOT EXCEED 5%.			
	A. WHERE THE BRANCH CIRCUIT CONDUCTOR LENGTH FROM THE PANEL TO THE FIRST OUTLET ON A 277V CIRCUIT EXCEEDS 125'-0" THE BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET SHALL NOT BE SMALLER THAN #10AWG. INCREASE THE BRANCH CIRCUIT CONDUCTOR SIZE AN ADDITIONAL WIRE SIZE FOR EACH ADDITIONAL 125' FOR THE ENTIRE CIRCUIT. THE GROUND CONDUCTOR SIZE SHALL BE INCREASED PROPORTIONALLY TO THE INCREASED PHASE CONDUCTORS AS PER NEC 2020 250.122 (B).			
	B. WHERE THE CONDUCTOR LENGTH FROM THE PANEL TO THE FIRST OUTLET ON A 120V CIRCUIT EXCEED 50'-0" THE BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET SHALL NOT BE SMALLER THAN #10AWG. INCREASE THE BRANCH CIRCUIT CONDUCTOR SIZE AN ADDITIONAL WIRE SIZE FOR EACH ADDITIONAL 125' FOR THE ENTIRE CIRCUIT. THE GROUND CONDUCTOR SIZE SHALL BE INCREASED PROPORTIONALLY TO THE INCREASED PHASE CONDUCTORS AS PER NEC 2020 250.122 (B).			
28.	THE CONTRACT DOCUMENTS ARE COMPLIMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.			
29.	ALL CONDUIT SHALL BE MINIMUM 3/4".			
30.	REFER TO DETAIL FOR LIGHTING INTEGRATION WITH BUILDING AUTOMATION SYSTEM.			
31.	EXCEPT WHERE SHOWN ON PLANS OR ABSOLUTELY NECESSARY (MUST BE APPROVED BY DESIGN TEAM), ALL CONDUITS AND PIPING SHALL BE CONCEALED IN BULKHEADS AND ABOVE CEILINGS AND NOT ROUTED THROUGH OPEN CEILINGS. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR THE LOCATION OF OPEN CEILINGS. WHEN CONDUITS ARE REQUIRED TO BE RUN EXPOSED, THEY ARE TO RUN TIGHT TO STRUCTURE AND BE PAINTED TO MATCH THE STRUCTURE.			

METHOD OF COMPLIANCE: ENERGY CODE: PRESCRIPTIVE X PERFORMANCE ASHRAE 90.1: LIGHTING SCHEDULE Lamp type required in fixture - See Fixture Schedule. Number of lamps in fixture - See Fixture Schedule. Ballast type used in the fixture - See Specifications. Number of ballasts in fixture - See Specifications. Total wattage per fixture - Varies - See Fixture Schedule

ADDITIONAL PRESCRIPTIVE COMPLIANCE _ 406.2 More Efficient HVAC Performance X 406.3 Reduced Lighting Power Density 406.4 Enhanced Lighting Controls ____ 406.5 On-Site Supply of Renewable Energy

406.6 Provision of Dedicated Outdoor HVAC Air System 406.7 High Efficiency Service Water Heating DESIGNER STATEMENT: To the best of my knowledge and belief, the design of this building complies with the electrical system and equipment requirements of the 2018 North Carolina State Building Code, Energy Conservation Code.

Sheet Number	Sheet Name	Current Revision	Current Revision Date
101A	ENLARGED POWER PLAN - MECHANICAL YARD PLAN		
103	EQUIPMENT PLATFORM POWER PLAN		
201	GROUND FLOOR LIGHTING PLAN		
202	FIRST FLOOR LIGHTING PLAN		
203	EQUIPMENT PLATFORM LIGHTING PLAN		
301	GROUND FLOOR TECHNOLOGY/SECURITY PLAN		
302	FIRST FLOOR TECHNOLOGY/SECURITY PLAN		
401	GROUND FLOOR FIRE ALARM PLAN		
402	FIRST FLOOR FIRE ALARM PLAN		
403	EQUIPMENT PLATFORM FIRE ALARM PLAN		
502	DETAILS		
503	NEW FIRE ALARM RISER/MATRIX, DETAILS		
504	EXISTING BUILDING FIRE ALARM RISER		
505	DETAILS		
506	DATA/IT RISER DIAGRAM		
700	ALT. 2 CONNECTOR & ALT. 3 CORRIDOR RENOVATION - ELECTRICAL DEMO		
701	ALT. 2 CONNECTOR & ALT. 3 CORRIDOR RENOVATION - POWER PLAN		
702	ALT. 2 CONNECTOR & ALT. 3 CORRIDOR RENOVATION - LIGHTING PLAN		
703	ALT. 2 CONNECTOR & ALT. 3 CORRIDOR RENOVATION - TECHNOLOGY PLAN		
704	ALT. 2 CONNECTOR & ALT. 3 CORRIDOR RENOVATION - FIRE ALARM PLAN		
804	PANEL SCHEDULES		
900	DEMOLITION SITE PLAN		
001	ELECTRICAL LEAD SHEET		
100	DEMOLITION		
101	GROUND FLOOR POWER PLAN		
102	FIRST FLOOR POWER PLAN		
501	DETAILS		
601	POWER RISERS/LOAD SUMMARY		
801	LIGHTING FIXTURE SCHEDULE		
802	PANEL SCHEDULES		
803	PANEL SCHEDULES		

PRESCRIPTIVE_____ PERFORMANCE_____

Total interior wattage specified versus allowed: 16,631 watts versus 34,163 watts (whole building) Total exterior wattage specified versus allowed: 569 watts versus 1920 watts

SYMBOL LEGEND

		
	LED LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHEDULE
	NIGHT LIGHT LED LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHEDULE
\bigotimes	LED LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHEDULE
	BATTERY POWERED EMERGENCY FIXTURE - WALL MOUNTED	SEE FIXTURE SCHEDULE
$\overline{\mathbf{A}}$	EXIT LIGHT - ARROW INDICATES DIRECTION & SHADING INDICATES ILLUMINATED	SEE FIXTURE SCHEDULE
S	SINGLE POLE TOGGLE SWITCH - +48" ABOVE FINISHED FLOOR TO TOP	HUBBELL 1221-I WITH 97071 COVER
S ₃	3-WAY SWITCH - INSTALL AT +48" ABOVE FINISHED FLOOR TO	EQUALS BY LEVITON OR HUBBELL 1223-I
	TOP OF OUTLET	WITH 97071 COVER EQUALS BY LEVITON OR
S4	4-WAY SWITCH - INSTALL AT +48" ABOVE FINISHED FLOOR TO TOP OF OUTLET	HUBBELL 1224-I WITH 97071 COVER EQUALS BY LEVITON OF
Sĸ	SINGLE POLE KEY SWITCH - INSTALL AT +48" ABOVE FINISHED FLOOR TO TOP OF OUTLET, UNLESS OTHERWISE NOTED.	HUBBELL, LEVITON OR F STAINLESS STEEL COVE KEYS PER SWITCH SQUARE D CLXGXXXX
LC#	NUMBER. PROVIDE NUMBER OF CONTACTS AS REQUIRED. PROVIDE HAND OFF AUTO SWITCH FOR EACH LIGHTING CONTACTOR. REFER TO DETAIL E801/1.	PROVIDE # CONTACTS A NEEDED OR EQUAL BY SIEMENS OR EATON
03	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH ISOLATED RELAY AND WIDE ANGLE LENS. TIME DELAYS OF NO LESS THAN 15 MINUTES. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.	SEE DETAILS AND SPECIFICATION 260923
⊢ ⊚	ISOLATED RELAY AND WIDE ANGLE LENS. TIME DELAYS OF NO LESS THAN 15 MINUTES. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.	SPECIFICATION 260923
SOS	35'x30', MINOR MOTION 20'x15'. TIME DELAYS OF NO LESS THAN 15 MINUTES. MOUNT AT +48" TO TOP OF OUTLET BOX. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.	SPECIFICATION 260923
SD	120/277 VOLT LINE VOLTAGE 0-10V (1500VA) SLIDE DIMMER SWITCH WITH ON/OFF - COMPATIBLE WITH LED FIXTURE - MOUNT AT +48" TO TOP OF OUTLET BOX	LEVITON ILLUMATECH S #IP710-LF-Z OR EQUAL B EATON OR LUTRON
SM	120 VOLT, 20 AMP, MOTOR RATED TOGGLE DISCONNECT SWITCH WITH JUNCTION BOX	HUBBELL, LEVITON OR P
S _{M2}	TWO POLE MOTOR RATED TOGGLE DISCONNECT SWITCH WITH JUNCTION BOX	HUBBELL, P&S OR LEVIT
-0	DUPLEX TAMPER RESISTANT GROUNDING TYPE RECEPTACLE - AT +16" ABOVE FINISHED FLOOR TO BOTTOM OF OUTLET, UON.	HUBBELL 5262XXTR W/ 9 COVER. EQUALS; LEVITO
-	TWO DUPLEX TAMPER RESISTANT GROUNDING TYPE RECEPTACLES IN A DOUBLE GANG BOX MOUNT AT +16" AFF TO BOTTOM OF OUTLET. PROVIDE WITH STAINLESS STEEL COVER LION	HUBBELL 5262XXTR W/ 9 COVER. EQUALS; LEVITO
⇔ _{GFI}	TAMPER RESISTANT GFCI DUPLEX RECEPTACLE -GROUND FAULT INTERRUPTION TYPE INSTALL AT +16" ABOVE FINISHED FLOOR TO BOTTOM OF OUTLET, UON.	HUBBELL GFR5262XXTR SS26 COVER FQUALS: LEVITON P&S
-⊖GFI WP	TAMPER RESISTANT DUPLEX GROUNDING TYPE RECEPTACLE	HUBBELL GFR5262XXTR
	BOTTOM OF OUTLET BOX, UNLESS OTHERWISE NOTED, WITH HEAVY DUTY GRAY IN-USE COVER (TAYMAC OR EQUAL)	COVER EQUALS: P&S, LE
\triangleleft	DATA OUTLET - REFER TO E03 SERIES PLANS AND DATA SCHEDULES FOR QUANTITY OF CAT-6 DROPS AT EACH OUTLET.	SINGLE GANG BOX WITH
۲	120 VOLT, 20 AMP FACELESS GFI DEVICE	CONDUIT STUBBED ABO CEILING
WAP	WIRELESS ACCESS POINT, WITH CAT-6A DATA DROP. REFER TO PLANS FOR LOCATIONS.	SEE SPECIFICATION
PA	EXISTING BOGEN MULTI-COM 2000 INTERCOM HEAD-END UNIT	
LS WP WG	WALL MOUNTED LOUDSPEAKER. EXACT MOUNTING HEIGHT FOR OUTDOOR SPEAKERS TO BE COORDINATED WITH ARCHITECT. WP=WEATHERPROOF. MOUNT ON INTERIOR AT +88" AFF.	SEE SPECIFICATION
LS	RECESSED CEILING SPEAKER, WITH BACK BOX AND ACCESSORIES - MATCH EXISTING BOGEEN SPEAKERS	SEE SPECIFICATION
AMP	FIRE ALARM SYSTEM AMPLIFIER CABINET	REFER TO SPECIFICATIO
NAC	FIRE ALARM SYSTEM NOTIFICATION APPLIANCE BOOSTER CABINET	REFER TO SPECIFICATIO
VFD	VARIABLE FREQUENCY DRIVE FURNISHED BY HVAC CONTROLS CONTRACTOR AND INSTALLED/WIRED BY THE ELECTRICAL CONTRACTOR	REFER TO SPECIFICATIC
IDF	IDF DATA RACK PROVIDED BY CONTRACTOR	REFER TO SPECIFICATIO
TGB	IDF ROOM GROUND BAR, REFER TO SPECIFICATIONS AND REFER TO DETAILS E502/6 AND E505/5	REFER TO SPECIFICATIO
••	CONDUITS SLEEVES TURN DOWN TO CEILING CAVITY BELOW.	
▼	SINGLE GANG VOICE OUTLET WITH 1" CONDUIT STUBBED ABOVE NEAREST LAY-IN CEILING FOR: ELEVATOR, FIRE ALARM OR SECURITY INTRUSION SYSTEM. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH SYSTEM PROVIDED. SEE DETAIL E00.08/3.	
S _{or}	LIGHTING OVERRIDE SWITCH - PROVIDED AND WIRED BY MECHANICAL CONTROLS CONTRACTOR	REFER TO SPECIFICATIO MECHANICAL DRAWINGS SEQUENCE OF OPERATI
CR	EXTERNAL DOOR SECURITY CARD READER. LOCATE 48" TO TOP OF BOX.	SEE SPECIFICATIONS
	SECURITY DOOR CONTACT REQUEST TO EXIT MOTION	SEE SPECIFICATIONS
 	SIMPLEX RECEPTACIE FOR ELEVATOR SUMP PUMP	
V⊲ #CD	FIRE ALARM SIGNAL/SPEAKER - AUDIO/VISUAL, WALL MOUNTED AT +84" ABOVE FINISHED FLOOR. "WP" INDICATES WEATHERPROOF # CD INDICATES CANDELA RATING OF STROBE.	REFER TO SPECIFICATIO
S #CD	FIRE ALARM SIGNAL - VISUAL, WALL MOUNTED AT +84" ABOVE	REFER TO SPECIFICATIO
S #CD	# CD INDICATES CANDELA RATING OF STROBE. CEILING MOUNTED FIRE ALARM STROBE - # CD INDICATES CANDELA RATING OF STROBE	REFER TO SPECIFICATIO
	MANUAL FIRE ALARM PULL STATION - INSTALL AT +48" ABOVE FINISHED	REFER TO SPECIFICATIC
F	FLOOR TO TOP OF BOX (DOUBLE ACTION). PROVIDE LEXAN STOPPER II COVERS ON ALL PULL STATIONS.	PROVIDE WITH LEXAN PROTECTIVE COVER
V	FIRE ALARM SPEAKER - AUDIO ONLY, WALL MOUNTED AT +84" ABOVE FINISHED FLOOR. "WP" INDICATES WEATHERPROOF	REFER TO SPECIFICATIO
SD	PHOTOELECTRIC TYPE SMOKE DETECTOR - CEILING MOUNTED	
$\hat{}$	DUCT TYPE PHOTOELECTRIC SMOKE DETECTOR INSTALLED IN MECHANICAL	
	DUCTWORK. FURNISHED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR WITH FINAL CONNECTION BY ELECTRICAL CONTRACTOR	REFER TO SPECIFICATIO
V	RECESSED CEILING MOUNTED FIRE ALARM SPEAKER	REFER TO SPECIFICATIO
	SPRINKLER BELL	
AHU-N	REMOTE ALARM ANNUNCIATORS FOR DUCT DETECTORS. MOUNT AT +88" AFF UNLESS OTHERWISE NOTED. MUST BE KEY-OPERATED. "N" DENOTES AIR HANDLING UNIT NUMBER TO BE IDENTIFIED ON FACEPLATE.	REFER TO SPECIFICATIO
EMH	MAGNETIC DOOR HOLDER, WALL MOUNTED/FLOOR MOUNTED, TO BE COORDINATED WITH GENERAL CONTRACTOR/ARCHITECT.	REFER TO SPECIFICATIO
(HD)	HEAT DETECTOR - FIXED TEMPERATURE (200°F @ KILN ROOM) (135°F @	REFER TO SPECIEICATIC
	CEILING MOUNTED FIRE ALARM SPEAKER/STROBE - # CD INDICATES CANDELLA RATING OF STROBE	REFER TO SPECIFICATIO
FACP	ADDRESSABLE VOICE-EVAC FIRE ALARM PANEL, EQUALS BY: NOTIFIER OR	REFER TO SPECIFICATIO
		REFER TO SPECIFICATIO
	EQUAL. INSTALL IN RISER ROOM.	
	TAMPER SWITCH/FLOW SWITCH - BY SPRINKLER SYSTEM CONTRACTOR	REFER TO SPECIFICATIO
TP AND FS		
TP AND FS	SHUTDOWN RELAY FOR AHU'S	REFER TO SPECIFICATIO
TP AND FS R CO	SHUTDOWN RELAY FOR AHU'S CARBON MONOXIDE DETECTOR WITH 85dB SOUNDER BASE, TEMPORAL 4	REFER TO SPECIFICATIO
TP AND FS R CO TS	SHUTDOWN RELAY FOR AHU'S CARBON MONOXIDE DETECTOR WITH 85dB SOUNDER BASE, TEMPORAL 4 TEMPERATURE SENSOR AT FIRELINE HOT BOX	REFER TO SPECIFICATIO COMPATIBLE WITH FA S POTTER OR EQUAL
TP AND FS R CO TS MM 18 X 4	SHUTDOWN RELAY FOR AHU'S CARBON MONOXIDE DETECTOR WITH 85dB SOUNDER BASE, TEMPORAL 4 TEMPERATURE SENSOR AT FIRELINE HOT BOX FIRE ALARM SYSTEM MONITOR MODULE CABLE TRAY AND/OR RUNWAY	REFER TO SPECIFICATIO COMPATIBLE WITH FA S POTTER OR EQUAL REFER TO SPECIFICATIO



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ICE STORAGE YARD DEMOLITION

0 4' 8' 1/8" = 1'-0"



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CHILLER YARD ELECTRICAL PLAN 0 4' 8' 1/8" = 1'-0"



GENERAL NOTES:

- A. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING ALL DISCONNECTS, PANEL, RECEPTACLES ETC. IN SERVICE YARD. COORDINATE CLOSELY WITH HVAC CONTRACTOR.
- B. REFER TO CIVIL SITE PLANS.
- ALL UTILITY WORK SHALL BE COORDINATED WITH TOWN OF CLAYTON UTILITIES DEPARTMENT. C.
- D. ALL RECEPTACLES SHALL BE TAMPER RESISTANT.

KEYNOTES:

- SERVICE ENTRANCE RATED, 600 VOLT, 400 AMP, 3 1. POLE, NEMA-3R, FUSIBLE DISCONNECT SWITCH FOR CHILLER. COORDINATE EXACT LOCATION AND FUSE SIZES WITH MECHANICAL CONTRACTOR. MOUNT DISCONNECTS ON GALVANIZED STEEL ANGLE AND UNISTRUT SUPPORTS EMBEDDED IN CONCRETE.
- NEMA-3R, 120VAC JUNCTION BOX FOR HVAC CONTROLS. COORDINATE EXACT LOCATION WITH 2. MECHANICAL CONTRACTOR.
- 3. 120 VOLT, 20 AMP, N3R, MOTOR RATED TOGGLE DISCONNECT SWITCH FOR CHILLER HEAT TRACE. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- 4. 120 VOLT, 20 AMP, N3R, MOTOR RATED TOGGLE DISCONNECT SWITCH FOR CHILLER PIPING HEAT TRACE. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- 5. UTILITY COMPANY MEDIUM VOLTAGE PRIMARY. COORDINATE WITH TOWN OF CLAYTON UTILITIES.
- 6. 240V, 30A, 3P, N3R, FUSIBLE DISCONNECT SWITCH FOR PUMP. FUSE PER MANUFACTURER RECOMMENDATIONS. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR. MOUNT DISCONNECTS ON GALVANIZED STEEL ANGLE AND UNISTRUT SUPPORTS EMBEDDED IN CONCRETE.
- PROVIDE 3000PSI CONCRETE PAD FOR UTILITY TRANSFORMER. COORDINATE FINAL SIZE AND 7. OPENINGS WITH TOWN OF CLAYTON UTILITY DEPARTMENT.
- 8. MOUNT RECEPTACLES TO SUPPORT FRAME.







_____ 1 HR RATED

GENERAL NOTES: A. REFER TO ELECTRICAL LEAD SHEET E001 FOR SYMBOLS, ABBREVIATIONS AND NOTES.

- B. ALL WORK IN TELECOM ROOMS SHALL BE COORDINATED BETWEEN DIVISION 27, 28 AND ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN.

- C.

- REFER TO E300 SERIES FOR TECHNOLOGY/SECURITY AND E400 SERIES FOR FIRE ALARM
- WORK IN THIS AREA.
- D. REFER TO DRAWINGS E300 SERIES FOR CABLE TRAY AND CONDUIT SLEEVES. E. ALL RECEPTACLES SHALL BE TAMPER RESISTANT.

KEYNOTES:

- 1. TELECOMMUNICATIONS GROUND BAR REFER TO DETAILS E502/6 AND E505/5. PROVIDE 240 VOLT, 30 AMP, 2 POLE, NEMA-1, FUSIBLE DISCONNECT SWITCH FUSE PER MANUFACTURER'S RECOMMENDATIONS. COORDIANTE EXACT LOCATION WITH 2.
- MECHANICAL CONTRACTOR. 3.

- PROVIDE 240 VOLT, 30 AMP, 2 POLE, NEMA-3R, FUSIBLE DISCONNECT SWITCH. FUSE PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.

- 4. 4'x8'x3/4" FIRE RETARDANT PLYWOOD BACK BOARD.
- 5. 18" x 4" LADDER RUNWAY TRAY.
- 6. CONTINUE TO ACU-1.
- COORDINATE PLACEMENT OF RACK RECEPTACLES WITH OWNER'S IT DEPARTMENT 7. PRIOR TO ROUGH-IN.
- COORDINATE LOCATION OF RECEPTACLE FOR WATER COOLER WITH PLUMBING 8. CONTRACTOR SO CORD DOES NOT SHOW. PROVIDE GFCI CIRCUIT BREAKER FOR
- WATER COOLER. REFER TO DETAIL E505/4 FOR MOUNTING RECEPTACLE HORIZONTALLY BELOW 9.
- CUBBIES. 10. CONTINUE TO ACU-2.





— – — – — 1 HR RATED

- A. REFER TO ELECTRICAL LEAD SHEET E001 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
- ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN.
- ALL RECEPTACLES SHALL BE TAMPER RESISTANT.
- ONLY ITEMS THAT PERTAIN TO THE OPERATION OF THE ELEVATOR ARE ALLOWED IN THE
- WHERE ELEVATORS ARE EQUIPPED WITH "BATTERY LOWERING" CAPABILITY, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A CONTACT IN THE MAIN ELEVATOR POWER DISCONNECT THAT WILL DISABLE THE "BATTERY LOWERING" FEATURE OF THE ELEVATOR WHEN THE MAIN POWER DISCONNECT FOR THE ELEVATOR IS THROWN. THIS DISABLING CONTACT IS INTENDED TO BE USED FOR SERVICING THE ELEVATOR. ("BATTERY LOWERING" IS A FUNCTION OF THE ELEVATOR WHEREBY, UPON LOSS OF AC POWER, THE ELEVATOR, OPERATING UNDER BATTERY POWER, RETURNS TO THE LOWEST LANDING AND OPENS DOORS TO LET ANYONE TRAPPED IN THE ELEVATOR

- 1. TELECOMMUNICATIONS GROUND BAR REFER TO DETAILS E502/6 AND E505/5. PROVIDE 240 VOLT, 30 AMP, 2 POLE, NEMA-1, FUSIBLE DISCONNECT SWITCH FUSE PER MANUFACTURER'S RECOMMENDATIONS. COORDIANTE EXACT LOCATION WITH
- 120VAC POWER FOR CHEMICAL FEED. COORDINATE REQUIREMENTS AND LOCATION
- WITH MECHANCIAL CONTRACTOR.
- 120 VOLT, 15 AMP, 1¢, MOTOR RATED TOGGLE DISCONNECT SWITCH FOR MECHANICAL EQUIPMENT. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- COORDINATE PLACEMENT OF RACK RECEPTACLES WITH OWNER'S IT DEPARTMENT
- COORDINATE LOCATION OF RECEPTACLE FOR WATER COOLER WITH PLUMBING CONTRACTOR SO CORD DOES NOT SHOW. PROVIDE GFCI CIRCUIT BREAKER FOR WATER
- REFER TO DETAIL E505/4 FOR MOUNTING RECEPTACLE HORIZONTALLY BELOW CUBBIES. VARIABLE FREQUENCY DRIVE (VFD) FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED/WIRED BY THE ELECTRICAL CONTRACTOR. COORDINATE CLOSELY.
- 11. 120 VOLT, 20 AMP, MOTOR RATED TOGGLE DISCONNECT SWITCH FOR MECHANICAL EQUIPMENT. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- 12. 120 VOLT, 20 AMP, MOTOR RATED TOGGLE DISCONNECT SWITCH FOR PLUMBING EQUIPMENT. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR.
- 13. 4'x8'x3/4" FIRE RETARDANT PLYWOOD BACK BOARD FOR BDA EQUIPMENT. REFER TO
- 14. 277 VOLT, 15 AMP, 1¢, MOTOR RATED TOGGLE DISCONNECT SWITCH WITH NEMA-3R JUNCTION BOX FOR MECHANICAL EQUIPMENT. COORDINATE EXACT LOCATION WITH
- 15. PROVIDE TELEPHONE CIRCUITS FOR ELEVATOR CONTROLLER.
- 16. BASIS OF DESIGN ELEVATOR: SCHINDLER 3100 MRL. PROVIDE 600 VOLT, 200 AMP, 3 POLE, ELEVATOR DISCONNECT SWITCH FOR MAIN ELEVATOR POWER. REFER TO DETAIL
- 17. PROVIDE 240 VOLT, 30 AMP, 2 POLE, NEMA-1, FUSIBLE DISCONNECT SWITCH FOR LIGHTS/CONTROLS. CIRCUIT AS SHOWN.
- PROVIDE 240 VOLT, 30 AMP, 3 POLE, NEMA-1 FUSIBLE DISCONNECT SWITCH FOR PUMP. FUSE PER MANUFACTURER'S RECOMMENDATIONS. CORRIDNATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.





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_____ 1 HR RATED

KEYNOTES:

- 1. EMERGENCY FIXTURE WIRE AHEAD OF SWITCHES AND/OR BAS.
- 2. NIGHT LIGHT WIRE AHEAD OF SWITCHES AND/OR BAS. 3.
- EMERGENCY FIXTURE WITH INTERNAL EMERGENCY BATTERY BACK-UP. WIRE FIXTURE SO FIXTURE TURNS ON/OFF WITH SWITCH, BUT MAINTAINS BATTERY CHARGE. UPON LOSS OF NORMAL POWER, FIXTURE SHALL ILLUMINATE.
- 4. EXTERIOR EMERGENCY FIXTURE WITH INTERNAL EMERGENCY BATTERY BACK-UP. WIRE FIXTURE SO FIXTURE TURNS ON/OFF WITH BAS, BUT MAINTAINS BATTERY CHARGE. UPON LOSS OF NORMAL POWER, FIXTURE SHALL ILLUMINATE.
- 5. CONTINUE TO EXTERIOR LIGHTING FIXTURES ON 1ST FLOOR, REFER TO DRAWINGS E102.





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KEYNOTES:

BELOW.

- 1. EMERGENCY FIXTURE WIRE AHEAD OF SWITCHES AND/OR BAS.
- 2. NIGHT LIGHT WIRE AHEAD OF SWITCHES AND/OR BAS.

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CAT. 6 PLENUM CABLE SCHEDULE

ROOM #	QUANTITY	TERMINATION		
620	3	IDF-605		
621	3	IDF-605		
618	3	IDF-605		
619	3	IDF-605		
617	3	IDF-605		
615	4	IDF-605		
613	3	IDF-605		
612	4	IDF-605		
610	6	IDF-605		
E00	2 (ELEV VOICE)	IDE-605		
EXTERIOR	5 (CAMS)	IDF-605		
600	5 (3 CAM)	IDF-605		

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CAT. 6A PLENUM CABLE SCHEDULE

ROOM #	QUANTITY	TERMINATION
620	1	IDF-605
621	1	IDF-605
618	1	IDF-605
619	1	IDF-605
617	1	IDF-605
615	1	IDF-605
613	1	IDF-605
610	1	IDF-605
600	2	IDF-605

GENERAL NOTES:

A. ALL WIRELESS ACCESS POINTS SHALL UTILIZE CAT-6A CABLE. ALL OTHER DATA DROPS SHALL BE CAT-6.
B. TRAY IN CORRIDORS SHALL BE BASKET TRAY, TRAY IN NETWORK CLOSET SHALL BE CABLE RUNWAY.

KEYNOTES:

- 1. (2)-2" CONDUIT SLEEVES WITH INSULATED BUSHINGS ON BOTH ENDS. LOCATE ABOVE ACCESSIBLE LAY-IN CEILING.
- 2. (1)-2" CONDUIT SLEEVE WITH INSULATED BUSHINGS ON BOTH ENDS. LOCATE ABOVE ACCESSIBLE LAY-IN CEILING.
- (3)-3" CONDUIT SLEEVES WITH INSULATED BUSHINGS ON BOTH ENDS. LOCATE ABOVE ACCESSIBLE LAY-IN CEILING.
- 4. CAMERA IN ELEVATOR AS PER NCDOL REQUIREMENTS. COORDINATE FINAL TERMINATION OF CAT-6 CABLE WITH OWNER AND ELEVATOR PROVIDER.





 TERMINATION
IDF-509B

ROOM #	QUANTITY	TERMINATION							
521	1	IDF-509B							
522	1	IDF-509B							
520	1	IDF-509B							
519	1	IDF-509B							
517	1	IDF-509B							
515	1	IDF-509B							
513	1	IDF-509B							
509	1	IDF-509B							
508	1	IDF-509B							
507	1	IDF-509B							
506	1	IDF-509B							
505	1	IDF-509B							
504	1	IDF-509B							
503	1	IDF-509B							
502	1	IDF-509B							
501	2	IDF-509B							
C500	2	IDF-509B							
C501	2	IDF-509B							
DATA TOTAL: 21									

1 HR RATED

GENERAL NOTES: A. ALL FIRE ALARM WIRING SHALL BE IN MINIMUM 3/4" CONDUIT.

- B. LOCATIONS OF NOTIFICATION APPLIANCE CABINETS (NAC) AND AMPLIFIER CABINETS (AMP) SHALL BE COORDINATED CLOSELY FOR PROPER CLEARANCES AND ACCESSIBILITY.
- C. ALL 120V POWER FOR NAC PANELS AND AMPLIFIER CABINETS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR FROM THE NEAREST AVAILABLE 120/208 VOLT PANEL. BREAKERS FOR THOSE CIRCUITS SHALL HAVE RED BREAKER LOCKS.
- D. FOR FIRE PROTECTION DEVICES (I.E. TAMPER SWITCHES, FLOW SWITCHES, FIRE PUMP, ETC.) REFER TO FP-SERIES FIRE PROTECTION DRAWINGS AND FIRE PROTECTION CONTRACTOR SHOP SUBMITTAL DRAWINGS PRIOR TO ANY ROUGH-IN.
- E. EXCEPT WHERE SHOWN ON PLANS OR ABSOLUTELY NECESSARY (MUST BE APPROVED BY DESIGN TEAM), ALL CONDUITS AND PIPING SHALL BE CONCEALED IN BULKHEADS AND ABOVE CEILINGS AND NOT ROUTED THROUGH OPEN CEILINGS. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR THE LOCATION OF OPEN CEILINGS. WHEN CONDUITS ARE REQUIRED TO BE RUN EXPOSED, THEY ARE TO RUN TIGHT TO STRUCTURE AND BE PAINTED TO MATCH THE STRUCTURE.
- F. ONLY ITEMS ASSOCIATED WITH THE ELEVATOR SHALL BE PERMITTED IN THE ELEVATOR HOISTWAY OR ELEVATOR MACHINE ROOM.

KEYNOTES:

- FIRE PROTECTION FLOOR CONTROL VALVE ASSEMBLY, COORDINATE WITH FIRE PROTECTION 1. CONTRACTOR.
- 2. SMOKE DETECTORS ARE REQUIRED IN EACH ELEVATOR LOBBY, MACHINE ROOM AND EACH SPRINKLER HEAD LOCATION IN HOISTWAY. ONLY THESE DETECTORS, WHEN ACTIVATED, SHALL PUT THE ELEVATOR IN FIREMAN'S RECALL OPERATION.

GENERAL NOTES:

STRUCTURE.

CONTRACTOR.

KEYNOTES:

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E.

- Β. CENTERED AT DOORWAY AT NO GREATER THAN 5'-0" FROM DOOR

- SMOKE DETECTORS LOCATED AT MAGNETIC DOOR OPENERS SHALL BE

- OPENING.
- A. ALL FIRE ALARM WIRING SHALL BE IN MINIMUM 3/4" CONDUIT.
- LOCATIONS OF NOTIFICATION APPLIANCE CABINETS (NAC) AND
- C. AMPLIFIER CABINETS (AMP) SHALL BE COORDINATED CLOSELY FOR

- PROPER CLEARANCES AND ACCESSIBILITY.
- PROVIDED BY THE ELECTRICAL CONTRACTOR FROM THE NEAREST

- D. ALL 120V POWER FOR NAC PANELS AND AMPLIFIER CABINETS SHALL BE
- AVAILABLE 120/208 VOLT PANEL. BREAKERS FOR THOSE CIRCUITS

- PRIOR TO ANY ROUGH-IN.

RUN TIGHT TO STRUCTURE AND BE PAINTED TO MATCH THE

FIRE PROTECTION FLOOR CONTROL VALVE

2. SMOKE DETECTORS ARE REQUIRED IN EACH

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ASSEMBLY, COORDINATE WITH FIRE PROTECTION

ELEVATOR LOBBY, MACHINE ROOM AND EACH

SPRINKLER HEAD LOCATION IN HOISTWAY. ONLY THESE DETECTORS, WHEN ACTIVATED, SHALL PUT

THE ELEVATOR IN FIREMAN'S RECALL OPERATION.

COORDINATE SPRINKLER BELL VOLTAGE WITH FIRE

PROTECTION CONTRACTOR PRIOR TO ANY ROUGH-IN.

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GENERAL NOTES:

/ NOT TO SCALE

- A. ELECTRICAL CONTRACTOR SHALL PROVIDE DUPLEX RECEPTACLE, PLYWOOD BACKBOARD, 2" GALVANIZED CONDUIT AND ALL 3" FLOOR CONDUIT SLEEVES.
- B. ALL BI-AMPLIFICATION EQUIPMENT AND ASSOCIATED CABLING SHALL BE PROVIDED BY OWNER/OTHERS.
- C. ANY CABLING USED ABOVE CEILINGS SHALL BE PLENUM RATED.
- E. IF ROOF PENETRATIONS ARE NOT USED, BY OWNER/OTHERS THEY SHALL BE SEALED AND CAPPED FOR FUTURE USE. COORDINATE WITH OWNER PRIOR TO ROUGH-IN.
- F. BI-AMPLIFICATION EQUIPMENT SHALL BE MONITORED BY THE FACILITY FIRE ALARM SYSTEM. THE BDA CONTRACTOR SHALL COORDINATE INTEGRATION WITH THE FIRE ALARM/ELECTRICAL CONTRACTOR'S PRIOR TO ROUGH-IN

DETAIL - (BDA) PUBLIC SAFETY RADIO INFRASTRUCTURE

System No. C-AJ-3030 March 05, 2007

F Ratings — 1-1/2, 2 and 3 Hr (See Item 5)

T Rating — 0 Hr L Rating At Ambient — 129 CFM/sq ft

L Rating At 400 F - 92 CFM/sq ft

1. Floor or Wall Assembly --- Min 2-1/2 in. (64 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 8 in. (203 mm). See Concrete Block (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Sleeve --- (Optional) --- Nom 8 in. (203 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe or nom 6 in. (152 mm) diam (or smaller) Schedule 40 polyvinyl chloride (PVC) pipe cast into floor or wall assembly. Sleeve to be flush with or project max 2 in. (51 mm) from top surface of floor or both surfaces of wall. When PVC sleeve is used, max cable conductor size is No. 12 AWG. As an alternate, nom 8 in. (203 mm) diam (or smaller) sleeve fabricated from nom 0.019 in. (0.48 mm) thick galv steel cast or grouted into floor or wall assembly flush with floor or wall surfaces.

3. Cables — Aggregate cross-sectional area of cables to be min 10 percent to max 40 percent of the cross-sectional area of the opening. Cables to be rigidly supported on both sides of the floor or wall assembly. Any combination of the following types and sizes of cables may be used:

> A. Max 1000 kcmil single-conductor copper or aluminum power cable; cross-linked polyethylene insulation.

> B. Max No. 2/0 AWG multiconductor copper or aluminum power cables; cross-linked polyethylene, polyvinyl chloride, neoprene rubber, hypalon or silicone rubber insulation and jacket materials.

C. Max No. 12 AWG multiconductor copper control cables; crosslinked polyethylene, polyvinyl chloride, neoprene rubber, hypalon or silicone rubber insulation and jacket materials.

D. Max 400 pair No. 24 AWG copper telephone cables; polyvinyl chloride insulation and jacket materials.

E. Multiple fiber optical communication cable jacketed with PVC and having a max outside diam of 5/8 in.

F. Max 200 pair No. 22 AWG (or smaller) copper conductor with polyvinyl chloride (PVC) insulation and jacketing material. G. Max 3/C No. 3/0 AWG (or smaller) copper or aluminum conductor SER cables with PVC insulation and jacket.

H. Max 3/C No. 2/0 AWG (or smaller) copper conductor PVC jacketed aluminum clad or steel clad TECK 90 cable.

I. Max 3/C with ground No. 8 AWG (or smaller) copper conductor NM cable with PVC insulation and jacket.

J. RG/U coaxial cable with fluorinated ethylene (FE) or PVC insulation and jacket.

K. Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with Hylar jacket and insulation.

L. Max 3/C No. 12 AWG (or smaller) MC (BX) copper cable with polyvinyl chloride insulation and jacket materials. M. Through Penetrating Product* — Any cables, Armored Cable+ or Metal Clad Cable+ currently Classified under the

Through Penetrating Product category. See Through Penetrating Product (XHLY) category in the Fire Resistance Directory for names of manufacturers

4. Packing Material — Min 1 in. (25 mm) thickness of 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or sleeve or from both surfaces of wall or ends of sleeve as required to accommodate the required thickness of fill material (Item 5). 5. Fill, Void or Cavity Material* - Caulk or Sealant - Applied to fill the through opening to a min thickness of 1 in. (25 mm) flush with the top surface of the floor or sleeve or both surfaces of wall or ends of sleeve. Caulk to be forced into interstices of cable group to max extent possible. F Rating of firestop systems is dependent

Max Through Opening Diam, In. (mm)	Min Concrete Thkns, In. (mm)	Sleeve Type	% Cable Fill	F Rating Hr
6 (152)	2-1/2 (64)	PVC	15-40	2
6 (152)	2-1/2 (64)	PVC	10-15	3
6 (152)	4-1/2 (114)	PVC	10-40	3
6 (152)	4-1/2 (114)	None	10-40	3
6 (152)	4-1/2 (114)	Steel	10-40	3
8 (203)	2-1/2 (64)	None	15-40	1-1/2
8 (203)	4-1/2 (114)	None	15-33	· 2
8 (203)	2-1/2 (64)	None	10-15	3
8 (203)	2-1/2 (64)	Steel	15-40	1-1/2
8 (203)	2-1/2 (64)	Steel	10-15	3
8 (203)	4-1/2 (114)	Steel	10-22	3

3M COMPANY --- CP 25WB+, or FB-3000 WT.

Last Updated on 2007-03-05

flexible metal gas piping may be used:

OMEGA FLEX INC

WARD MFG L L C

L (25)

l (25)

4 (102)

6 (152)

12 (305)

*Bearing the UL Classification Mark

+When copper pipe is used, T Rating is 0 h.

3M COMPANY - CP 25WB+ or FB-3000 WT.

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GASTITE, DIV OF TITEFLEX

of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit

Diam In (mm)

1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on

2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on

3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on

Rating Hr

1 or 2

3 or 4

1 or 2

3 or 4

1 or 2

piping may or may not be removed on both sides of floor or wall assembly.

piping may or may not be removed on both sides of floor or wall assembly.

piping may or may not be removed on both sides of floor or wall assembly.

both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T

3M COMPANY — Fire Barrier Packing Material

4. Fill, Void or Cavity Material* – Caulk, Sealant – Applied to fill the annular space flush with top surface of floor. In wall assemblies, required caulk thickness to be installed symmetrically on both sides of wall, flush with wall surface. At point contact location between penetrant and sleeve or between penetrant and concrete, a min 1/4 in. (6 mm) diam bead of caulk shall be applied at top surface of floor and at both surfaces of wall. The hourly F Ratings and the min required caulk thicknesses are dependent upon a number of parameters, as shown in the following table:

Min Floor or Wall Thkns In.	Nom Pipe Tube or Conduit Diam In.	Max Annular Space In.	Min Caulk Thkns In.	F Rating Hr
2-1/2 (64)	1/2-12 (13-305)	1-3/8 (35)	1/2 (13)	2
2-1/2 (64)	1/2-12 (13-305)	3-1/4 (83)	1 (25)	2
4-1/2 (114)	1/2-6 (13-152)	1-3/8 (35)	1/4 (6) (a)	2
4-1/2 (114)	1/2-12 (13-305)	1-1/4 (32)	1/2 (13)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-12 (13-305)	3-1/4 (83)	1 (25)	3
4-1/2 (114)	22-30 (558-762)	2 (51)	2 (51)	3
5-1/2 (140)	1/2-6 (13-152)	1-3/8 (35)	1 (25) (b)	4

(a)Min 2 in (51 mm) thickness of mineral wool batt insulation or forming material (Item 3A) required in annular space.

(b)Min 1 in. (25 mm) thickness of mineral wool batt insulation required in annular space on both sides of floor or wall assembly. Min 1 in (25 mm) thickness of caulk to be installed flush with each surface of floor or wall assembly.

3M COMPANY - CP 25WB+ or FB-3000 WT.

(Note - W Rating applies only when FB-3000 WT is used.)

*Bearing the UL Classification Mark

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CONDUIT PENETRATION DETAILS NOT TO SCALE

Last Updated on 2007-03-15

RECEPTACLE GROUNDING

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Rating

Hr

0+, 1 or 2

3 or 4

Last Updated on 2005-06-15

3. Fill, Void or Cavity Material* — Caulk or Sealant — Min 5/8., 1-1/4,1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating

	GENERAL MATRIX NOTE: A. VERIFY OPERATION WITH LOCAL AHJ PRIOR TO PROGRAMM	1ING.	UMPE CENT	UMPE AUDIN ALARIA	UNTE SUDE ALARIA SPEAKER	UNTERLINGORY SIGNAL TOSTO	UNTE COMMON. SUPERVICE MOLCAT	TUATE AUDIBLE OUBLE OF SIGNAL	AND EAL EL, COMMON SCUAL "	MIT FIRE ALARIA DOUBLE SIGNAL	ANSIMT SILLE SIGNAL TO S	DUAN COERVISORY TO SUPERVISM.	UTDOWN AL OF STOLAT TO MAGE STATION	ANSIMT CO AIR HAND & DSUPERVICE	MARCA ROUBLE UNT CO OMESTATIC	EASE MAC MON BOUNDAL TO	WETCALLY PROL BUNERVICE	THELD DOC SGILL STATION	No. No. No. No.					
	SYSTEM INPUTS	<u>_</u>	/ ₹	7 4	/ v	<i>\</i> ₹	/ 7/	4	×_	1 & / &	<u>۲ م</u>	<u>క్/ చ</u>	:/ <i>K</i>	<u> </u>)/ &	/							\square	_
		A	B	C	D	E	F	GI	H	<u> </u>]	K	L	M	0	P	Q	R	S	Т	U	V	W	X	
1		0	0									0											1	
2													-											
		0							0			0												
4		0	0						0			0			+		+						4	
6	SMOKE DETECTORS MECHANICAL PLATEORM	0	0					0 0	0		0	0												
7	HEAT DETECTORS GROUND FLOOR	0	0					0 0	0		0	0											7	-
8	HEAT DETECTORS FIRST FLOOR	0	0					0 0	0		0	0											3	
9	HEAT DETECTORS MECHANICAL PLATFORM	0	0					0 0	0		0	0											9	
10	DUCT DETECTORS	0	0					0 0	0		0	0											1	2
11	AHU OVERRIDE SWITCH			0	0					0	0												1	1
12	TAMPER SWITCH @ PIV			0	0					0	0												1	2
13	TAMPER SWITCHES AT SPRINKLER RISERS			0	0					0	0												1	3
14	FLOW SWITCH AT SPRINKLER RISERS	0	0					0 (0		0	0											1	4
15	FIRE ALARM SYSTEM AC POWER FAILURE					0	0			0	0												1	5
16	FIRE ALARM SYSTEM LOW BATTERY					0	0			0	0												1	<u>ð</u>
17	NAC PANELS LOW BATTERY					0	0			0	0												1	7
18	OPEN CIRCUIT					0	<u> </u>			<u> </u>	0			1									1	3
19	GROUND FAULT					0	0			<u> </u>	0												1	9
20						0				<u> </u>	<u> </u>													
21	IEMPERATURE SENSOR @ FIRELINE BACKFLOW PREVENTER					0				<u> </u>	0		-	-										
22									-+															<u>< </u>
23									-+		+			+							+			5
24									-+					1										<u>+</u>
20									+					1										2
20	BDA - LOW BATTERY CAPACITY AT 70% REDUCTION OF			l o					+		0			1									2	7
	OPERATING CAPACITY										Ĺ													
28	BDA - FAILURE OF CRITICAL EQUIPMENT COMPONENTS			0						0	0												2	3
29	BDA - OSCILLATION OF ACTIVE OF RF EMITTING DEVICES			0						0	0												2	9
30	BDA - COMMUNICATION LINE BETWEEN FIRE ALARM SYSTEM AND THE IN BUILDING TWO-WAY EMERGENCY RESPONDER COMMUNICATIONS COVERAGE SYSTEM			0						0	0												3)

3 FIRE ALARM SYSTEM OPERATIONAL MATRIX DETAIL

NOT TO SCALE

GENERAL FIRE ALARM RISER NOTES:

- 1. REFER TO ARCHITECT'S SPECIFICATIONS 012300 FOR OWNER'S PREFERRED MANUFACTURER, NOTIFIER, FOR FIRE ALARM SYSTEM.
- 2. SEE PLANS FOR LOCATIONS AND QUANTITIES OF ALL DEVICES.
- 3. ALL WIRING SHALL BE IN MINIMUM 3/4" CONDUIT.
- 4. BATTERY CALCULATIONS ARE REQUIRED WITH ALL SUBMITTALS. 5. TEST RESULTS ARE REQUIRED FOR ALL DEVICES.
- 6. PROVIDE SHUT-DOWN DEVICES FOR NEW AIR HANDLERS, FAN COIL UNITS AND SUPPLY FANS OF ALL MECHANICAL EQUIPMENT.
- 7. VERIFY ROOM NUMBERS WITH ARCHITECT PRIOR TO PROGRAMMING SYSTEM. 8. RAAP SHALL BE SEMI-RECESSED WITH INTEGRAL PUSH-TO-TALK MICROPHONE AND ZONE
- SELECTION SWITCHES. 9. A SMOKE DETECTOR SHALL BE MOUNTED WITHIN 15'-0" OF FACP, RACP, AMP AND NAC PANELS.
- 10. IF ANY ARCHITECTURAL CHANGES ARE MADE THAT SHALL AFFECT ANY DEVICE PLACEMENT. THIS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO INSTALLATION.
- 11. THE MANUFACTURER'S AUTHORIZED REPRESENTATIVE SHALL BE NICET LEVEL 3 CERTIFIED AND HAVE AT LEAST 2 YEARS OF EXPERIENCE INSTALLING FIRE ALARM SYSTEMS. NOTE: PROJECT MANAGER SHALL BE NICET LEVEL 4 CERTIFIED AND HAVE AT LEAST 5 YEARS EXPERIENCE INSTALLING FIRE ALARM SYSTEMS.
- 12. THE SHOP DRAWINGS SUBMITTALS FOR DEVICE LOCATIONS SHALL BE SUBMITTED TO ENGINEER AND LOCAL (AHJ) FIRE MARSHALL PRIOR TO ANY INSTALLATION/ROUGH-IN FOR FIRÈ ALÁRM DEVICES.
- 13. WIRING DIAGRAMS. LOCATION DRAWINGS, DEVICE CUT SHEETS AND VOLTAGE DROP CALCULATIONS ARE REQUIRED WITH ALL SUBMITTALS.
- 14. THE FIRE ALARM SYSTEM PROVIDER SHALL PROVIDE ALL DOCUMENTATION AS SPECIFIED IN THE INTERNATIONAL FIRE CODE SECTION 907 REQUIREMENTS AS PART OF HIS SHOP DRAWING SUBMITTALS. THIS INCLUDES:
- LOCATION DRAWINGS OF ALARM INITIATING AND NOTIFICATION DEVICES. WIRING DIAGRAMS WITH CONDUCTOR TYPE AND SIZES. LOCATIONS OF ALARM CONTROL AND TROUBLE SIGNALLING EQUIPMENT.
- POWER CONNECTION DETAILS AND WIRING SCHEMATICS BATTERY CALCULATIONS VOLTAGE DROP CALCULATIONS
- MANUFACTURER'S MODEL NUMBERS, LISTING INORMATION FOR EQUIPMENT, DEVICES AND MATERIALS.
- H. THE INTERFACE OF FIRE SAFETY CONTROL FUNCTIONS.

FIRE ALARM SIGNAL LINE CIRCUITS SHALL BE WIRED CLASS "A" AND NOTIFICATION CIRCUITS SHALL BE WIRED CLASS "B" WITH THE END OF LINE RESISTOR CLEARLY AND PERMANENTLY MARKED ON THE LAST DEVICE.

> LEGEND: — NEW TO BE ADDED

NOT TO SCALE

- 15. REFER TO SPECIFICATION.
- 16. FIRE ALARM SIGNAL LINE CIRCUITS SHALL BE WIRED CLASS "A" AND NOTIFICATION CIRCUITS SHALL BE WIRED CLASS "B" WITH THE END OF LINE RESISTOR CLEARLY AND PERMANENTLY MARKED ON THE LAST DEVICE.
- 17. PROVIDE SPARE PARTS AS DEFINED IN SPECIFICATION.
- 18. ALL FIRE ALARM SYSTEM WORK SHALL BE APPROVED BY THE JOHNSTON COUNTY FIRE MARSHALL PRIOR TO COMMENCING ANY FIRE ALARM WORK.
- 19. FIRE ALARM SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 72, 2013.
- 20. COORDINATE WITH THE FIRE PROTECTION CONTRACTOR FOR VOLTAGE, RELAY, ETC. FOR CONNECTIONS OF SPRINKLER BELL. ALL WIRING, CONDUIT, RELAY, AND INTERCONNECTIONS
- SHALL BE BY THE ELECTRICAL & FIRE ALARM CONTRACTORS. 21. SPEAKER AMPLIFIER CABINETS SHALL BE ADDED AS NEEDED. ALL 120VAC POWER FOR
- CABINET SHALL BE PROVIDED FROM THE NEAREST 120V PANEL. BREAKER HASPS SHALL BE PROVIDED ON BREAKER SERVING CABINET. 22. ELECTRICAL CONTRACTOR SHALL COORDINATE CLOSELY WITH FIRE ALARM
- SUB-CONTRACTOR FOR ALL 120V AC POWER REQUIRED FOR THIS SYSTEM. IF ANY ADDITIONAL CIRCUITS ARE REQUIRED THAT ARE NOT IDENTIFIED ON PLANS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE THAT CIRCUIT FROM THE NEAREST 120V PANEL. AS-BUILTS SHALL BE UPDATED TO REFLECT THE INSTALLED CONDITION. THIS SHALL BE DONE AT NO ADDITIONAL COST TO THE PROJECT
- 23. THE NEW VOICE/EVAC FIRE ALARM PANEL IN THE NEW BUILDING SHALL BE INTERCONNECTED WITH THE EXISTING MAIN FACP AT THE MAIN BUILDING. DIAL-OUT SHALL BE VIA EXISTING DACT AT THAT MAIN PANEL. COORDINATE ALL WORK, PRIOR TO ROUGH-IN.
- 24. ELECTRICAL CONTRACTOR'S FIRE ALARM SUB-CONTRACTOR SHALL COORDINATE CLOSELY WITH THE HVAC CONTROLS CONTRACTOR.
- 25. LOCAL CARBON MONOXIDE ALARM CANNOT BE SILENCED. RE-VERIFY WITH FIRE MARSHALL. 26. "CO" DETECTOR SHALL BE PROVIDED WITH TEMPORAL 4 SOUNDER BASE FOR DISTINCT SOUND IN AREA OF ALARM. COORDINATE WITH OWNER TO ESTABLISH WRITTEN EMERGENCY RESPONSE PLAN IN THE EVENT OF CARBON MONOXIDE ALARM.
- 27. THE FIRE ALARM SYSTEM SHALL BE INTERCONNECTED WITH ALL SOUND SYSTEMS, INCLUDING BUILDING PAGING SYSTEM SO THAT UPON GENERAL ALARM CONDITION THE SOUND SYSTEM MUTES. REFER TO PLANS FOR SOUND SYSTEM LOCATIONS.

PANEL FACP-1. THESE SYSTEMS SHALL BE CAPABLE OF OPERATING/SILENCING THE SYSTEMS FROM EITHER THE MAIN FACP IN ADMIN AREA OR THE VOICE-EVAC FACP IN THE NEW BUILDING. THIS ALSO INCLUDES ANY LCD ANNUNCIATOR LOCATIONS. PROVIDE ALL NECESSARY NETWORK CARDS, ETC. FOR A COMPLETE SYSTEM.

FIRE ALARM INTERLOCK

THE FIRE ALARM CONTRACTOR SHALL PROVIDE A FIRE ALARM RELAY FOR THE SUPPLY FAN(S) AT EACH AHU. THE RELAY SHALL BE WIRED DIRECTLY TO THE FAN VARIABLE FREQUENCY DRIVE FOR AHU SHUTDOWN BY THE BAS CONTRACTOR. THE RELAY SHALL ALSO HAVE AN AUXILIARY CONTACT. THE BAS CONTRACTOR SHALL WIRE FROM THE AUXILIARY CONTACT TO THE BAS CONTROLLER TO MONITOR FA SHUTDOWN FOR THAT FAN ON THE BAS FRONT END.

FOR AHU RETURN FANS, THE SCOPE SHALL BE THE SAME AS FOR THE SUPPLY FANS. RETURN FANS DO NOT REQUIRE AN AUXILIARY CONTACT OR BAS MONITORING OF FA SHUTDOWN STATUS.

4 DOAS SHUTDOWN

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GENERAL FIRE ALARM RISER NOTES:

A. ALL NEW DEVICES SHALL BE COMPATIBLE WITH EXISTING NFS-640 NOTIFIER FACP. B. SEE PLANS FOR LOCATIONS AND QUANTITIES OF ALL DEVICES.

- C. ALL WIRING SHALL BE IN MINIMUM 3/4" CONDUIT.
- D. BATTERY CALCULATIONS ARE REQUIRED WITH ALL SUBMITTALS.
- E. TEST RESULTS ARE REQUIRED FOR ALL DEVICES.
- F. PROVIDE SHUT-DOWN DEVICES FOR NEW ROOF TOP UNITS.
- G. VERIFY ROOM NUMBERS WITH ARCHITECT PRIOR TO PROGRAMMING SYSTEM. H. ALL NAC PANELS AND AMPLIFIER PANELS SHALL HAVE A SMOKE DETECTOR MOUNTED
- I. A SMOKE DETECTOR SHALL BE MOUNTED WITHIN 15'-0" OF FACP AND NAC PANELS.
- J. IF ANY ARCHITECTURAL CHANGES ARE MADE THAT SHALL AFFECT ANY DEVICE PLACEMENT, THIS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER
- K. THE MANUFACTURER'S AUTHORIZED REPRESENTATIVE SHALL BE NICET LEVEL 3 CERTIFIED AND HAVE AT LEAST 2 YEARS OF EXPERIENCE INSTALLING FIRE ALARM
- YEARS OF EXPERIENCE INSTALLING FIRE ALARM SYSTEMS.
- M. THE SHOP DRAWINGS SUBMITTALS FOR DEVICE LOCATIONS SHALL BE SUBMITTED TO ENGINEER AND LOCAL (AHJ) FIRE MARSHALL PRIOR TO ANY INSTALLATION/ROUGH-IN FOR FIRE ALARM DEVICES.

- N. WIRING DIAGRAMS. LOCATION DRAWINGS, DEVICE CUT SHEETS AND VOLTAGE DROP CALCULATIONS ARE REQUIRED WITH ALL SUBMITTALS.
- O. THE FIRE ALARM SYSTEM PROVIDER SHALL PROVIDE ALL DOCUMENTATION AS SPECIFIED IN THE INTERNATIONAL FIRE CODE SECTION 907 REQUIREMENTS AS PART OF HIS SHOP DRAWING SUBMITTALS. THIS INCLUDES:
- 1. LOCATION DRAWINGS OF ALARM INITIATING AND NOTIFICATION DEVICES.
- 2. WIRING DIAGRAMS WITH CONDUCTOR TYPE AND SIZES.
- 3. LOCATIONS OF ALARM CONTROL AND TROUBLE SIGNALING EQUIPMENT.
- 4. POWER CONNECTION DETAILS AND WIRING SCHEMATICS.
- 5. BATTERY CALCULATIONS.
- 6. VOLTAGE DROP CALCULATIONS. 7. MANUFACTURER'S MODEL NUMBERS, LISTING INFORMATION FOR EQUIPMENT, DEVICES AND MATERIALS.
- 8. THE INTERFACE OF FIRE SAFETY CONTROL FUNCTIONS.
- P. REFER TO DIVISION 28 SPECIFICATIONS.
- L. THE PROJECT MANAGER SHALL BE NICET LEVEL 4 CERTIFIED AND HAVE AT LEAST 5 Q. FIRE ALARM SIGNAL LINE CIRCUITS SHALL BE WIRED CLASS "A" AND NOTIFICATION CIRCUITS SHALL BE WIRED CLASS "B" WITH THE END OF LINE RESISTOR CLEARLY AND PERMANENTLY MARKED ON THE LAST DEVICE.
 - R. PROVIDE SPARE PARTS AS DEFINED IN SPECIFICATIONS.

FIRE ALARM SIGNAL LINE CIRCUITS SHALL BE WIRED CLASS "A" AND NOTIFICATION CIRCUITS SHALL BE WIRED CLASS "B" WITH THE END OF LINE RESISTOR CLEARLY AND PERMANENTLY MARKED ON THE LAST DEVICE.

DETAIL - FIRE ALARM RISER (EXISTING BUILDING)

ALL FIRE ALARM SYSTEM WORK SHALL BE APPROVED BY THE LOCAL FIRE MARSHAL PRIOR TO COMMENCING ANY FIRE ALARM WORK.

FIRE ALARM SYSTEM SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH NFPA

U. ELECTRICAL CONTRACTOR SHALL COORDINATE CLOSELY WITH FIRE ALARM SUB-CONTRACTOR FOR ALL 120V AC POWER REQUIRED FOR THIS SYSTEM. IF ANY ADDITIONAL CIRCUITS ARE REQUIRED THAT ARE NOT IDENTIFIED ON PLANS THE ELECTRICAL CONTRACTOR SHALL PROVIDE THAT CIRCUIT FROM THE NEAREST 120V PANEL, AS-BUILTS SHALL BE UPDATED TO REFLECT THE INSTALLED CONDITION. THIS SHALL BE DONE AT NO ADDITIONAL COST TO THE PROJECT.

V. ELECTRICAL CONTRACTORS (FIRE ALARM SUB-CONTRACTOR) SHALL COORDINATE CLOSELY WITH THE HVAC CONTROLS CONTRACTOR.

Т.

72, 2013.

CONTINUED ON DRAWING E503

NOTES:

- A. IT IS THE INTENT FOR THE TELECOMMUNICATION GROUNDING SYSTEM TO UTILIZE THE "GROUND ELECTRODE CONDUCTOR (GEC)" ASSOCIATED WITH THE ELECTRICAL SERVICE ENTRANCE TO THE PROJECT SITE. B. FROM THE GEC, THE ELECTRICAL CONTRACTOR SHALL INSTALL A BONDING CONDUCTOR WHICH WILL CONNECT THE GEC TO A
- TELECOMMUNICATIONS MAIN GROUNDING BUS BAR (TMGB) LOCATED IN THE EXISTING MDF. THE BONDING CONDUCTOR SHALL BE BONDED TO THE GEC AND THE TMGB. ADDITIONALLY, THE TMGB SHALL BE BONDED TO THE CLOSEST VERTICAL BUILDING STEEL AND STEEL CONDUIT RACEWAY OR CABLE TRAY DESIGNATED FOR TELECOMMUNICATIONS USE.
- C. A BONDING CONDUCTOR (THE TELECOMMUNICATIONS BONDING BACKBONE) SHALL CONNECT THE TMGB TO ALL TELECOMMUNICATION CLOSETS (IDFs) WITHIN THE FACILITY, SPECIFICALLY TO A TELECOMMUNICATIONS GROUNDING BUSBAR (TGB) LOCATED IN EACH IDF. ADDITIONALLY, THE TGB WILL BE BONDED TO THE CLOSEST AVAILABLE VERTICAL BUILDING STEEL AND STEEL CONDUIT RACEWAY OR CABLE TRAY DESIGNATED FOR TELECOMMUNICATIONS USE.
- D. COMPONENTS CRITERIA: 1. BUSBARS A. PREDRILLED ELECTROTIN PLATED COPPER BUSBAR PROVIDED WITH STANDARD NEMA BOLT HOLE SIZING AND SPACING FOR TWO HOLE COMPRESSION CONNECTORS OR EXOTHERMIC TYPE WELDED CONNECTORS. B. REFER TO DETAIL E00.03-2 FOR TELECOM BUSBAR REQUIREMENTS. THE BUSBAR SHALL BE INSULATED FROM ITS SUPPORT. MINIMUM 50mm SEPARATION IS RECOMMENDED.
- 2. BONDING CONDUCTOR A. TELECOMMUNICATIONS BONDING BACKBONE SHALL BE A MINIMUM OF 6AWG STRANDED AND INSULATED CONDUCTOR IN 3/4" EMT. B. THE CONDUCTOR SHALL BE CONTINUOUS AND ROUTED IN THE SHORTEST POSSIBLE STRAIGHT LINE PATH FROM THE MDF TO IDFs.

TELECOMMUNICATIONS GROUNDING SYSTEM TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR

DETAIL - TELECOMMUNICATIONS SYSTEM GROUNDING 5

GENERAL NOTES:

A. REFER TO DOOR HARDWARE SPECIFICATION FOR DOOR HARDWARE.

REVERSE VIEW-PROTECTED SIDE

- B. THE INSTALLATION OF ALL CONDUIT, WIRING, JUNCTION BOXES, TERMINATIONS, CARD READERS AND DEVICES SHALL BE COORDINATED BETWEEN THE ELECTRICAL, SECURITY AND DOOR HARDWARE CONTRACTORS PRIOR TO INSTALLATION.
- C. POWER SUPPLIES SHALL BE LOCATED IN READILY ACCESSIBLE LOCATION AT NEAREST NETWORK CLOSET, NOT ABOVE CEILINGS.

2 DETAIL - EXTERIOR SINGLE DOORS W/CRASH BAR

DETAIL - EXTERIOR DOUBLE DOORS W/CRASH BARS

[/] NOT TO SCALE

GENERAL NOTES:

- B. THE INSTALLATION OF ALL CONDUIT, WIRING, JUNCTION BOXES, TERMINATIONS, CARD READERS AND DEVICES

A. REFER TO DOOR HARDWARE SPECIFICATION FOR DOOR HARDWARE.

MC CABLE

MC CABLE

-MC CABLE BOX CONNECTION

- FINISHED WALL SURFACE

3/4" CONDUIT WITH SINGLE CONDUCTOR -BRANCH WIRING ROUTED THROUGH EMT

AND FMC TO RECEPTACLE OUTLET

HORIZONTALLY MOUNTED RECEPTACLE

12"x12"x6" J-BOX

ON PROTECETD

3/4"C WITH

PULLCORD

CEILING VOID

UNPROTECTED SIDE

EMT TO

ACCESS

CONTROL

PANEL REX

| MOTION |

(TYP.)

SIDE

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LATCH IN CRASH

ELECTRIC

HINGE

BAR

SECTION 1

MOUNTED IN JUNCTION BOX

FINISHED CEILING

ALL CONDUIT, JUNCTION BOXES, & 120V WIRING (BY ELECTRICAL

CONTRACTOR) ALL 24V SECURITY

DOOR ACCESS SYSTEM CONTRACTOR.

EMT TO

ACCESS

CONTROL

PANEL

CR

CARD

READER

J-BOX MOUNTED ON

LATCH

BAR

IN CRASH

PROTECTED SIDE

SINGLE

GANG

J-BOX

CEILING VOID

SECTION 2

J-BOX

WIRING AND EQUIPMENT BY THE

CONNECTOR

JUNCTION BOX -

EMT TO FMC

BUSHING

A. ALL RECEPTACLES SHOWN MOUNTED IN BOOKCASES SHALL BE MOUNTED HORIZONTAL

IN TOE SPACE. COORDINATE WITH GENERAL CONTRACTOR

SECTION 1

CONDUIT

15/16" HOLE

/ WIRE

HINGE

SECTION 2

SINGLE

GANG

BOX /

CRASH

BAR

DRILLED

IN JAM

WIRE

PERMANENTLY

GENERAL NOTES:

B. ALL BOXES SHALL BE GROUNDED.

HORIZONTAL MOUNTING

NOT TO SCALE

SINGLE

GANG

BOX -

CONTACT

FIXED CUBBIES

- SHALL BE COORDINATED BETWEEN THE ELECTRICAL, SECURITY AND DOOR HARDWARE CONTRACTORS PRIOR TO INSTALLATION.

- C. POWER SUPPLIES SHALL BE LOCATED IN READILY ACCESSIBLE LOCATION AT NEAREST NETWORK CLOSET, NOT ABOVE CEILINGS.

- D. THIS DOOR DETAIL IS A GENERAL DETAIL AND DOES NOT REFLECT THE ACTUAL DOOR PROVIDED. THE CONTRACTORS SHALL COORDINATE WITH ALL APPLICABLE TRADES.

REVERSE VIEW-PROTECTED SIDE

- PROVIDE 18" WIDE CABLE RUNWAY ABOVE RACKS IN ALL DATA ROOMS AND

	CONNECTED KVA	TOTAL DIVERSITY	DEMAND KVA
LIGHTING LOAD REMOVED	(-0.96)	x1.25	(-1.2)
LIGHTING LOAD ADDED	3.83	x1.25	4.79
HVAC LOAD REMOVED	(-1.38)	x1.0	(-1.38)
HVAC LOAD ADDED	14.21	x1.0	14.21
GENERAL PURPOSE RECEPTACLES REMOVED	(-3.96)	x1.0	(-3.96)
GENERAL PURPOSE RECEPTACLES ADDED	9.18	x1.0	9.18
KITCHEN LOAD ADDED	4.2	x1.0	4.2
OTHER LOADS ADDED	8.62	x1.0	8.62
	33.74		34.46

	LIGHT FIXTURE TO BE REMOVED
	LIGHT FIXTURE TO BE REMOVED
Г Л L J	LIGHT FIXTURE TO BE REMOVED
	LIGHT FIXTURE TO BE REMOVED
□ ⊐ □ ` _ □ └ _ ⊔	CANOPY LIGHT FIXTURE TO BE REMOVED
(EXIT LIGHT FIXTURE TO BE REMOVED
	LIGHT SWITCH TO BE REMOVED
	CONDUIT/WIRING TO BE REMOVED
WM	WIREMOLD TO BE REMOVED
ਜ ੁੱਤ	RECEPTACLE TO BE REMOVED
	WIRELESS ACCESS POINT TO BE REMOVED
ĿS	LOUD SPEAKER TO BE REMOVED
LS	LOUD SPEAKER TO BE REMOVED
۲Ţ	TELEVISION OUTLET TO BE REMOVED
	PANEL BOARD TO BE REMOVED
[F]	FIRE ALARM PULL STATION TO BE REMOVED
(hD)	FIRE ALARM HEAT DETECTOR TO BE REMOVED
	OVERHEAD PROJECTOR OUTLETS TO BE REMOV
(JB)	JUNCTION BOX TO BE REMOVED

CAT. 6 PLENUM CABLE SCHEDULE COMMENTS TERMINATION ROOM # QUANTITY C05B PART OF ALTERNATE #3 MDF-RMC05G 4 C05A PART OF ALTERNATE #3 MDF-RMC05G 4 C05 PART OF ALTERNATE #3 MDF-RMC05G 1 (CAMS) C04 PART OF ALTERNATE #2 MDF-RMC05G 1 (CAMS) C02 PART OF ALTERNATE #2 | MDF-RMC05G 2 (CAMS) C01 PART OF ALTERNATE #2 | MDF-RMC05G (1) (CAM) EXTERIOR 3 (CAMS)

ROOM #	QUANTITY	COMMENTS	TERMINATION							
C02	1	PART OF ALTERNATE #2	MDF-RMC05G							
C04	1	PART OF ALTERNATE #2	MDF-RMC05G							
C05A	1	PART OF ALTERNATE #3	MDF-RMC05G							
DATA TOTAL: 3										

DATA TOTAL: 16

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	COOPER ACADEMY LIGHTING FIXTURE SCHEDULE													
MARK	SIZE	MOUNTING	VOLT	MANUFACTURER AND MODEL NO.	EQUALS	DESCRIPTION	LAMP	WATTS						
A	2'W X 4'L X 5"D	RECESSED	MVOLT	COLUMBIA #LJT24-40-HL-G-FS-A12125-ED1-U	WILLIAMS, LITHONIA	2' X 4' LED LAY-IN, 0-10V (DIM TO 1%) , 125" LENS, 80CRI	4000K LED 5526 LUMENS	45						
A1	1'W X 4'L X 5"D	RECESSED	MVOLT	COLUMBIA #LJT14-40-ML-G-FS-A12125-ED1-U	WILLIAMS, LITHONIA	1' X 4' LED LAY-IN, 0-10V (DIM TO 1%), 125" LENS, 80CRI	4000K LED 4834 LUMENS	38						
A2	2'W X 4'L X 5"D	RECESSED	MVOLT	COLUMBIA #LJT24-40-ML-G-FS-A12125-ED1-U	WILLIAMS, LITHONIA	2' X 4' LED LAY-IN, 0-10V (DIM TO 1%), 1.25" LENS, 80CRI	4000K LED 4792 LUMENS	38						
AF	2'W X 4'L X 5"D	RECESSED	MVOLT	COLUMBIA #LJT24-40-ML-G-FS-A12125-ED1- U-FK24	WILLIAMS, LITHONIA	2' X 4' LED LAY-IN, FLANG KIT, 0-10V (DIM TO 1%), 1.25" LENS, 80CRI	4000K LED 4792 LUMENS	38						
С	14"W X 48"L X 7"D	SUSPENDED	MVOLT	WILLIAMS #82-4-L64/840-VBY-CHAINS-DRV- UNV-WG-8214	COLUMBIA, LITHONIA	4' INDUSTRIAL LED CHAIN HUNG, WITH WIRE GUARD, 82CRI	4000K LED 6526 LUMENS	43						
DE	6" DIA	RECESSED	MVOLT	WILLIAMS #6DR-TL-L20-8-40-DIM-UNV-O-M- CS-N-WET/CC-EM/10W/RTS	PRESCOLITE, LITHONIA	6" RECESSED LED DOWNLIGHT, 80CRI, WITH 90 MINUTE BATTERY BACKUP AND REMOTE TEST SWITCH, WET LOCATION LISTED	4000K LED 2061 LUMENS	19						
E	6" DIA	RECESSED	MVOLT	WILLIAMS #6DR-TL-L10-8-40-DIM-UNV-O-M- CS-N	PRESCOLITE, LITHONIA	6" RECESSED LED DOWNLIGHT, 80CRI	4000K LED 1000 LUMENS	16						
F	5-7/8"H X 48"L X 5-1/16"D	WALL	277	WILLIAMS #SLF-4-L52-8-40-HIA-UNV	COLUMBIA, LITHONIA	4' STAIRWELL LED LIGHT FIXTURE, K10 RATED, 16 GAUGE CRS, FROSTED HIGH IMPACT ACRYLIC LENS, 80CRI	4000K LED 5092 LUMENS	38						
GE	8.5"H X 17"W X 10 3/4"D	WALL	MVOLT	LITHONIA #WST-LED-P2-40K-VF-MVOLT- E20WH-SPECIAL COLOR (BY ARCHITECT)	DECO, GARDCO	LED EXTERIOR FULL CUT OFF WALL SCONCE, VANDAL RESISTANT, WET LABEL LISTED, 70CRI, 2500 LUMEN 90 MINUTE BATTERY BACKUP	4000K LED 3469 LUMENS	25						
Н	4'-0"L X 5.3"W X 2"D	SURFACE	MVOLT	COLUMBIA #CNW4-LSCS	WILLIAMS, LITHONIA	4' NARROW WRAP, SWITCHABLE, 010V DIMMABLE TO 10%, ACRYLIC LENS, CEILING OR WALL MOUNT	4000K LED 4060 LUMENS	35						
JE	43"L X 3.6"H X 5.4"D	MOUNTED ON MULLION	MVOLT	LUMINAIRE #AEL-36IN-NODIM-30E-40K- MVOLT-DP-CUST-EMB20R	LIGMAN, CUSTOM	ARCHITECTURAL EGRESS LUMINAIRE, FULL CUT-OFF, ALUMINUM, DIFUSED POLYCARBONATE LENS, GASKETS, WET LOCATION LISTED	4000K LED 3143 LUMENS	30						
К	41/8" DIA. X 8"H	PENDANT	MVOLT	LUMENWERX #AE4CYP-D-8"-CF#-BVLD- FTMW-CL-SW-50DEG-2STP-80CRI-40K-UNV	PRESCOLITE, LITHONIA	4" DAIMETER PENDANT SUSPENDED CYLINDER LED FIXTURE, 0-10V DIMMABLE, 50 DEGREE, ARCHITECT SELECT FINAL MOUNTING HEIGHT	4000K LED 2775 LUMEN	28						
L6	4.75"H X 4"W X 72"L	RECESSED	MVOLT	FINELITE# HP4-R-D-72"-B-840-F-96LG-277-SC- FC-10%-C2-FE	AXIS, HE WILLIAMS	6FT LINEAR LED DIRECT FIXTURE, 0-10V DIMMABLE TO 10%, RECESS MOUNTED	4000K LED 2966 LUMENS 80-CRI	28						
PE	7"W X 4.5"D X 48"L	WALL	MVOLT	COLUMBIA #LXEM-4-40-ML-RFA-E-U-ELL14	PHILLIPS, LITHONIA	ELEVATOR HOISTWAY LED, VAPORLUME, 4000K, WITH 90 MINUTE 1400 LUMEN BATTERY BACKUP, IK10 RATED	4000K LED 5646 LUMENS	42						
X1	12"W X 9"H X 2"D	UNIVERSAL	MVOLT	EMERGILITE #W-PREM-SNX-R	DUALITE, LITHONIA	SINGLE FACE LED EXIT SIGN, UNIVERSAL MOUNT, THERMOPLASTIC, SPEC GRADE, FIELD SELECTABLE CHEVRONS, UL924	LED	4						
X2	12"W X 9"H X 2"D	UNIVERSAL	MVOLT	EMERGILITE #W-PREM-SNX-R	DUALITE, LITHONIA	DUAL FACE LED EXIT SIGN, UNIVERSAL MOUNT, THERMOPLASTIC, SPEC GRADE, FIELD SELECTABLE CHEVRONS, UL924	LED	4						
Х3	17"W X 12"H X 3.4"D	UNIVERSAL	MVOLT	EMERGILITE #W-PR-1224M-1-R-2-LJ	DUALITE, LITHONIA	12V, COMBINATION EXIT/EMERGENCY LED SIGN, UNIVERSAL MOUNTING, 90 MINUTE BATTERY BACKUP, FIELD SELECTABLE CHEVRONS	LED	23						
EM	11"W X 5.25"W X 3.5"D	WALL MOUNTED AT 7.5' AFF	MVOLT	EMERGILITE #12JSM36-2-150-LJ-FM	DUALLITE, LITHONIA	TWO HEAD LED EMERGENCY EGRESS FIXTURE, NICAD BATTERY BACKUP	LED	20						

COI E C(COIL C LIGHTIN NTACTO LECTRI ONTRAC
	LC1
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	LC3
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1 BAS/DDC MONITORING NOT TO SCALE

GENERAL NOTES:

A. REFER TO SPECIFICATION 260923 AND HVAV CONTROL SEQUENCE OF OPERATION.

B. LOCAL OVERRIDE SWITCH S PROVIDED BY HVAC CONTROLS CONTRACTOR.

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10 | 10
10 | 3/4"
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 | RECEPT - 504
 | 3/4" | 10 | 10
 | 10
 | 20 | 1 800 | | 1.620
 | 20 | 10 | 10 | 10 | 3/4" | RECEPT - |
| | R | 0.900
 | RECEPT - 506
 | 3/4" | 10 | 10
 | 10
 | 20 | 1.800 | 1.800 |
 | 20 | 10 | 10 | 10 | 3/4" | RECEPT - |
| - | R
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 | RECEPT - 506
RECEPT - 508
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3/4" | 10
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12 | 3/4"
3/4" | RECEPT - EXT
RECEPT - 5 |
| 9 | 0 | 1.000
 | NETWORK RACK - 509B
 | 3/4" | 12 | 12
 | 12
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 | 20 | 12 | 12 | 12 | 3/4" | |
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 | ELEVATOR LTS/CONTROLS
 | 3/4 | 12 | 12
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 | 20 | 0.800 | | 2.000
 | 20
20 | 12 | 12 | 12 | 3/4 | SPARE |
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 | BATTERY LOWERING
SPRINKLER BELL
 | 3/4"
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RECEPT - 519 RECEPT - 517		0.900	R R	18
RECEPT - 517 RECEPT - 515		0.900	R	22 24
RECEPT - 515 RECEPT - 513		0.720	R R	26 28
RECEPT - 513 RECEPT - C501		0.900 0.540	R R	30 32
EWC - C501 (NOTI RECEPT - EXTERI	E 2) OR	0.960 0.540	O R	34 36
RECEPT - 509B RECEPT - 509B		0.600	R R	38 40
BDA EQUIPM,ENT -: SPARE	509B	1.000	0	42
SPARE SPARE SPARE			0	46 48 50
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FED FROM: PANEL AL MOUNT: SURFACE	1			
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PROVIDE DOOR WITH LOCK COPPER BUSS BARS AND BO	AND HINGED DLT ON BREA	TRIM. PR KERS.	OVIDE	
PANEL TOTALS 8.849	KVA	73	3.7	AMP
9.517 8.374	KVA KVA	79 69	9.3 9.8	AMP AMP
DESCRIPTION	1	LOAD KVA	LOAD TYPE	СКТ
CHILLER CH-2 CONT CH-2 HEAT TRACE (N	ROLS OTE 1)	0.600	0	2
CH-2 PIPING HEAT TRACE	(NOTE 1)	1.000	O M	6
PUMP PCHWP-2 [3	nr]	1.320 1.320	M M	10
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FED FROM: PANEL AL	1			
MOUNT: SURFACE NEMA: 3R				
PROVIDE DOOR WITH LOCK	AND HINGED	TRIM. PR	ROVIDE	
COPPER BUSS BARS AND BE	OLT ON BREA	KERS.		
4.380 4.640	KVA KVA	36 38	6.5 8.7	AMP AMP
4.640	KVA	38	8.7	AMP
DESCRIPTIO	N	LOAD KVA	LOAI	р скт
DESCRIPTIO HWUH-1 HWUH-2	N	LOAD KVA 0.250 0.250	LOAI TYPE H H	D CKT
DESCRIPTIO HWUH-1 HWUH-2 CHEMICAL FEED - CHEMICAL FEED -	N M01 M02	LOAD KVA 0.250 0.250 0.600 0.600	LOAI TYPE H H H	D CKT 2 4 6 8
DESCRIPTIO HWUH-1 HWUH-2 CHEMICAL FEED - CHEMICAL FEED - DDC PANEL - M RECEPT - M01, 50	N M01 M02 D1 D9A	LOAD KVA 0.250 0.250 0.600 0.600 0.600 0.720	LOAI TYPE H H H H R	D CKT 2 4 6 8 10 12
DESCRIPTIO HWUH-1 HWUH-2 CHEMICAL FEED - CHEMICAL FEED - DDC PANEL - M RECEPT - M01, 5 RECEPT - M02 BOILER B-1	M01 M02 D1 D9A	LOAD KVA 0.250 0.250 0.600 0.600 0.600 0.720 0.720 0.449	LOAI TYPE H H H H H H R R R H	De CKT 2 4 6 8 10 12 14 16
DESCRIPTION HWUH-1 HWUH-2 CHEMICAL FEED - CHEMICAL FEED - DDC PANEL - M RECEPT - M01, 50 RECEPT - M02 BOILER B-1 BOILER B-1 BOILER B-2 SPARE	N M01 M02 D1 D9A	LOAD KVA 0.250 0.250 0.600 0.600 0.600 0.720 0.720 0.449 0.449	LOAI TYPE H H H H H R R R H H O	De CKT 2 4 6 8 10 12 14 16 18 20
DESCRIPTION HWUH-1 HWUH-2 CHEMICAL FEED - CHEMICAL FEED - DDC PANEL - M RECEPT - M01, 50 RECEPT - M02 BOILER B-1 BOILER B-1 BOILER B-2 SPARE SPARE WATER HEATER W	N M01 M02 D1 D9A	LOAD KVA 0.250 0.250 0.600 0.600 0.600 0.720 0.720 0.720 0.449 0.449 0.449	LOAI TYPE H H H H H R R R H H O O O O	De CKT 2 4 6 8 10 12 14 16 18 20 22 24
DESCRIPTION HWUH-1 HWUH-2 CHEMICAL FEED - CHEMICAL FEED - DDC PANEL - M RECEPT - M01, 5 RECEPT - M02 BOILER B-1 BOILER B-1 BOILER B-2 SPARE SPARE SPARE WATER HEATER V RECIRCULATION F RECEPT - E02	N M01 M02 D1 D9A 2 VH-1 UMP	LOAD KVA 0.250 0.250 0.600 0.600 0.600 0.720 0.720 0.720 0.720 0.449 0.449 0.449 0.449 0.200 0.200	LOAI TYPE H H H H H H H H O O O O O O C O	De CKT 2 4 6 8 10 12 14 16 18 20 22 24 26 28
DESCRIPTION HWUH-1 HWUH-2 CHEMICAL FEED - CHEMICAL FEED - DDC PANEL - M RECEPT - M01, 5 RECEPT - M02 BOILER B-1 BOILER B-1 BOILER B-2 SPARE SPARE SPARE WATER HEATER V RECIRCULATION F RECEPT - E02 DDC PANEL - M	N M01 M02 D1 D9A S VH-1 VH-1 VH-1 VMP	LOAD KVA 0.250 0.250 0.600 0.600 0.600 0.720 0.720 0.720 0.720 0.449 0.449 0.449 0.449 0.200 0.200 0.200 0.200 0.360 0.600 1.320	LOAI TYPE H H H H H H H H O O O O O O O C O C O C	De CKT 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32
DESCRIPTION HWUH-1 HWUH-2 CHEMICAL FEED - CHEMICAL FEED - DDC PANEL - M RECEPT - M01, 5 RECEPT - M02 BOILER B-1 BOILER B-1 BOILER B-2 SPARE SPARE SPARE WATER HEATER V RECIRCULATION F RECEPT - E02 DDC PANEL - M PHWP-1 [3HP	N M01 M02 D1 D9A 2 VH-1 VH-1 VHP D2 1	LOAD KVA 0.250 0.250 0.600 0.600 0.600 0.720 0.720 0.720 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.200 0.200 0.200 0.200 0.360 0.360 0.360 1.320 1.320	LOAI TYPE H H H H H H H H H H O O O O O O O O O	De CKT 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 38
DESCRIPTION HWUH-1 HWUH-2 CHEMICAL FEED - CHEMICAL FEED - DDC PANEL - M RECEPT - M01, 50 RECEPT - M02 BOILER B-1 BOILER B-1 BOILER B-2 SPARE SPARE SPARE WATER HEATER V RECIRCULATION F RECEPT - E02 DDC PANEL - M PHWP-1 [3HP	N M01 M02 D1 D9A 2 VH-1 VH-1 VMP D2 1	LOAD KVA 0.250 0.250 0.600 0.600 0.600 0.720 0.720 0.720 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.200 0.200 0.200 0.200 0.360 0.360 0.360 1.320 1.320 1.320 1.320	LOAI TYPE H H H H H H H H H H H O O O O O O O O	De CKT 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 42
DESCRIPTION HWUH-1 HWUH-2 CHEMICAL FEED - CHEMICAL FEED - DDC PANEL - M RECEPT - M01, 50 RECEPT - M02 BOILER B-1 BOILER B-1 BOILER B-2 SPARE SPARE SPARE WATER HEATER V RECIRCULATION F RECEPT - E02 DDC PANEL - M PHWP-1 [3HP PHWP-2 [3HP	N M01 M02 D1 D9A 2 VH-1 VH-1 VMP D2 1	LOAD KVA 0.250 0.250 0.600 0.600 0.600 0.720 0.720 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.200 0.200 0.200 0.200 0.360 0.360 0.360 1.320 1.320 1.320 1.320	LOAI TYPE H H H H H H H H H H H H H O O O O O O	De CKT 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44
DESCRIPTION HWUH-1 HWUH-2 CHEMICAL FEED - CHEMICAL FEED - DDC PANEL - M RECEPT - M01, 50 RECEPT - M02 BOILER B-1 BOILER B-1 BOILER B-2 SPARE SPARE SPARE WATER HEATER V RECIRCULATION F RECEPT - E02 DDC PANEL - M PHWP-1 [3HP PHWP-2 [3HP SPARE SPARE SPARE SPARE SPARE SPARE	N M01 M02 D1 D9A 2 VH-1 UMP D2 1	LOAD KVA 0.250 0.250 0.600 0.600 0.600 0.720 0.720 0.449 0.449 0.449 0.449 0.449 0.449 0.200 0.200 0.200 0.200 0.200 0.360 0.200 0.360 0.200 1.320 1.320 1.320 1.320 1.320	LOAI TYPE H H H H H H H H H H H H H O O O O O O	De CKT 2 4 6 8 10 12 14 16 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50
DESCRIPTION HWUH-1 HWUH-2 CHEMICAL FEED - CHEMICAL FEED - DDC PANEL - M RECEPT - M01, 5 RECEPT - M02 BOILER B-1 BOILER B-1 BOILER B-2 SPARE SPARE SPARE WATER HEATER W RECIRCULATION F RECEPT - E02 DDC PANEL - M PHWP-1 [3HP PHWP-2 [3HP SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	N M01 M02 D1 D9A 2 VH-1 UMP D2 I	LOAD KVA 0.250 0.250 0.600 0.600 0.600 0.720 0.720 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.200 0.200 0.200 0.360 0.200 0.360 0.200 1.320 1.320 1.320 1.320 1.320 1.320	LOAI TYPE H H H H H H H H H O O O O O O O O O O	De CKT 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 54
DESCRIPTION HWUH-1 HWUH-2 CHEMICAL FEED - CHEMICAL FEED - DDC PANEL - M RECEPT - M01, 5 RECEPT - M02 BOILER B-1 BOILER B-1 BOILER B-2 SPARE SPARE SPARE WATER HEATER V RECIRCULATION F RECEPT - E02 DDC PANEL - M PHWP-1 [3HP PHWP-2 [3HP PHWP-2 [3HP SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	N M01 M02 D1 D9A P VH-1 VH-1 VH-1 D2 D2 I	LOAD KVA 0.250 0.250 0.600 0.600 0.600 0.720 0.720 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.200 0.200 0.200 0.200 0.360 0.360 0.360 0.360 1.320 1.320 1.320 1.320 1.320 1.320	LOAI TYPE H H H H H H H H H H H H O O O O O O O	De CKT 2 4 6 8 10 12 14 16 12 14 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58
DESCRIPTION HWUH-1 HWUH-2 CHEMICAL FEED - CHEMICAL FEED - DDC PANEL - M RECEPT - M01, 5 RECEPT - M02 BOILER B-1 BOILER B-2 SPARE SPARE SPARE SPARE WATER HEATER V RECIRCULATION F RECEPT - E02 DDC PANEL - M PHWP-1 [3HP PHWP-2 [3HP SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	N M01 M02 D1 D9A C VH-1 VH-1 VHP D2 I I	LOAD KVA 0.250 0.250 0.600 0.600 0.600 0.720 0.720 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.200 0.200 0.200 0.360 0.360 0.360 0.360 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320	LOAI TYPE H H H H H H H H H O O O O O O O O O O	P CKT 2 4 6 8 10 12 14 16 22 24 26 28 30 32 34 36 32 34 40 46 44 50 52 54 56 58 60 60
DESCRIPTION HWUH-1 HWUH-2 CHEMICAL FEED - CHEMICAL FEED - DDC PANEL - M RECEPT - M01, 5 RECEPT - M02 BOILER B-1 BOILER B-1 BOILER B-2 SPARE SPARE SPARE SPARE SPARE CEPT - E02 DDC PANEL - M RECIRCULATION F RECEPT - E02 DDC PANEL - M RECEPT - E02 DDC PANEL - M SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	N M01 M02 D1 D9A C VH-1 VH-1 VH-1 VHP D2 C C C C C C C C C C C C C C C C C C	LOAD KVA 0.250 0.250 0.600 0.600 0.600 0.720 0.720 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.200 0.200 0.360 0.200 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320	LOAI TYPE H H H H H H H H H O O O O O O O O O O	P CKT 2 4 6 8 10 12 14 16 12 14 20 22 21 24 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 60
DESCRIPTION HWUH-1 HWUH-2 CHEMICAL FEED - CHEMICAL FEED - DDC PANEL - M RECEPT - M01, 50 RECEPT - M02 BOILER B-1 BOILER B-2 SPARE SPARE SPARE SPARE SPARE ARECIRCULATION F RECEPT - E02 DDC PANEL - M RECIRCULATION F RECEPT - E02 DDC PANEL - M SPARE	N M01 M02 D1 D9A C VH-1 UMP D2 C C C C C C C C C C C C C C C C C C	LOAD KVA 0.250 0.250 0.600 0.600 0.720 0.720 0.449 0.449 0.449 0.449 0.449 0.449 0.200 0.200 0.200 0.360 0.200 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320	LOAI TYPE H H H H H H H H H H H H H H M O O O O O	De CKT 2 4 6 8 10 12 14 16 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 50 52 54 56 58 60 60
DESCRIPTION HWUH-1 HWUH-2 CHEMICAL FEED - CHEMICAL FEED - DDC PANEL - M RECEPT - M01, 50 RECEPT - M02 BOILER B-1 BOILER B-2 BOILER B-2 SPARE SPARE SPARE SPARE CSPARE PHWP-1 [3HP PHWP-2 [3HP PHWP-2 [3HP SPARE SP	N M01 M02 D1 D9A C VH-1 VH-1 VH-1 VH-1 VH-1 VH-1 VH-1 VH-1	LOAD KVA 0.250 0.250 0.600 0.600 0.600 0.720 0.720 0.449 0.449 0.449 0.449 0.449 0.449 0.200 0.200 0.200 0.200 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320	LOAI TYPE H H H H H H H H H H O O O O O O O O O	De CKT 2 4 6 8 10 12 14 16 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 50 52 54 50 52 54 56 58 60
DESCRIPTION HWUH-1 HWUH-2 CHEMICAL FEED - CHEMICAL FEED - DDC PANEL - MI RECEPT - M01, 50 RECEPT - M01, 50 RECEPT - M01, 50 RECEPT - M02 BOILER B-1 BOILER B-2 SPARE WATER HEATER V RECEPT - E02 DDC PANEL - MI RECEPT - E02 DDC PANEL - MI RECEPT - E02 DDC PANEL - MI PHWP-1 [3HP PHWP-2 [3HP PHWP-2 [3HP PHWP-2 [3HP SPARE SPACE SPACE </td <td>N M01 M02 D1 D9A C VH-1 VH-1 UMP D2 I I I I I I I I I I I I I I I I I I</td> <td>LOAD KVA 0.250 0.250 0.600 0.600 0.720 0.720 0.449 0.449 0.449 0.449 0.449 0.449 0.200 0.200 0.360 0.200 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320</td> <td>LOAI TYPE H H H H H H H H H H M M M M M M M M M</td> <td>P CKT 2 4 6 8 10 12 14 16 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 50 52 54 56 58 60 58 60 </td>	N M01 M02 D1 D9A C VH-1 VH-1 UMP D2 I I I I I I I I I I I I I I I I I I	LOAD KVA 0.250 0.250 0.600 0.600 0.720 0.720 0.449 0.449 0.449 0.449 0.449 0.449 0.200 0.200 0.360 0.200 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320	LOAI TYPE H H H H H H H H H H M M M M M M M M M	P CKT 2 4 6 8 10 12 14 16 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 50 52 54 56 58 60 58 60
DESCRIPTION HWUH-1 HWUH-2 CHEMICAL FEED - CHEMICAL FEED - DDC PANEL - MI RECEPT - M01, 5I RECEPT - M02 BOILER B-1 BOILER B-1 BOILER B-2 SPARE WATER HEATER V RECEPT - E02 DDC PANEL - MI PHWP-1 [3HP PHWP-2 [3HP PHWP-2 [3HP SPARE	N M01 M02 D1 D9A C VH-1 VH-1 VH-1 VH-1 C C C C AND HINGED C C C C C C C C C	LOAD KVA 0.250 0.250 0.600 0.600 0.600 0.720 0.720 0.720 0.720 0.720 0.720 0.720 0.720 0.720 0.720 0.720 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.200 0.200 0.200 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320	LOAI TYPE H H H H H H H H H O O O O O O O O O O	P CKT 2 4 6 8 10 12 14 16 12 14 16 38 20 22 24 26 28 30 32 34 36 38 40 42 44 50 52 54 56 58 60 58 60
DESCRIPTION HWUH-1 HWUH-2 CHEMICAL FEED - CHEMICAL FEED - DDC PANEL - MO RECEPT - MO1, 51 RECEPT - MO2 BOILER B-1 BOILER B-2 SPARE SPARE WATER HEATER V RECEPT - E02 DDC PANEL - MO RECIRCULATION F RECEPT - E02 DDC PANEL - MO RECEPT - E02 DDC PANEL - MO PHWP-1 [3HP PHWP-2 [3HP PHWP-2 [3HP SPARE	N M01 M02 D1 D9A C VH-1 VH-1 VH-1 VH-1 VH-1 C C C C C C C C C	LOAD KVA 0.250 0.250 0.600 0.600 0.720 0.720 0.720 0.449 0.449 0.449 0.449 0.449 0.449 0.200 0.200 0.200 0.360 0.360 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320	LOAI TYPE H H H H H H H H H O O O O O O O O O O	P CKT 2 4 6 8 10 12 14 16 12 14 16 38 20 22 24 26 28 30 32 34 36 38 40 42 44 50 52 54 56 58 60 58 60 58 60 58 60 58 60 58 60 58 60 58 60 58 60 58 60 58 60 58 60 58 60 58 60 58 60 58 60 58 60 60
DESCRIPTION HWUH-1 HWUH-2 CHEMICAL FEED - CHEMICAL FEED - DDC PANEL - MO RECEPT - MO1, 50 RECEPT - MO1, 50 RECEPT - MO1, 50 RECEPT - MO2 BOILER B-1 BOILER B-2 SPARE SPARE VATER HEATER V RECEPT - E02 DDC PANEL - MO PHWP-1 [3HP PHWP-2 [3HP PHWP-2 [3HP SPARE	N M01 M02 D1 D9A C VH-1 VH-1 VH-1 UMP D2 C L AND HINGED AND HINGED AND HINGED AND HINGED AND HINGED	LOAD KVA 0.250 0.250 0.600 0.600 0.720 0.720 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.200 0.200 0.200 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320	LOAI TYPE H H H H H H H H H H H O O O O O O O O	De CKT 2 4 6 8 10 12 14 16 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 50 52 54 50 52 54 56 58 60 — - — - — - — - — - — - — - — - — - — - — - — - — - — - — - — - — - — - — - — -
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DESCRIPTION HWUH-1 HWUH-2 CHEMICAL FEED - ODC PANEL - M RECEPT - M01, 50 RECEPT - M02 BOILER B-1 BOILER B-2 SPARE SPARE SPARE WATER HEATER W RECIRCULATION F RECEPT - E02 DDC PANEL - M PHWP-1 [3HP PHWP-2 [3HP PHWP-2 [3HP SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SP	N M01 M02 D1 D9A VH-1 VH-1 VH-1 VH-1 VH-1 VH-1 MP D2 1 AND HINGED AND HINGED AND HINGED AND HINGED	LOAD KVA 0.250 0.250 0.600 0.600 0.720 0.720 0.449 0.449 0.449 0.449 0.449 0.430 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320	LOAI TYPE H H H H H H H H H O O O O O O O O O O	De CK1 2 4 6 8 10 12 14 16 12 14 16 38 20 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60
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N	G	С	DESCRIPTION	LOAD KVA	LOAD TYPE	скт
10 10	10 10	3/4" 3/4"	RECEPT - C501 RECEPT - 522	0.540	R R	2
10	10	3/4"	RECEPT - 522	0.900	R	6
10 10	10 10	3/4" 3/4"	RECEPT - 520 RECEPT - 520	0.900	R R	8 10
10 10	10 10	3/4" 3/4"	RECEPT - 521 RECEPT - 521	0.900	R R	12 14
10	10	3/4"	RECEPT - 519	0.900	R	16
10 10	10 10	3/4" 3/4"	RECEPT - 519 RECEPT - 517	0.900	R R	18 20
10 10	10 10	3/4" 3/4"	RECEPT - 517 RECEPT - 515	0.900	R R	22 24
10	10	3/4"	RECEPT - 515	0.720	R	26
12 12	12 12	3/4" 3/4"	RECEPT - 513 RECEPT - 513	0.900	R R	28 30
10 12	10 12	3/4" 3/4"	RECEPT - C501 EWC - C501 (NOTE 2)	0.540	R O	32 34
10	10	3/4"	RECEPT - EXTERIOR	0.540	R	36
12	12	3/4"	RECEPT - 509B	0.600	R	40
12	12	3/4"	BDA EQUIPM,ENT -509B SPARE	1.000	0	42 44
			SPARE		0	46 48
			SPARE		0	50
			SPARE		0	52 54
			SPACE SPACE		0	56 58
			SPACE		0	60
			FED FROM:PANEL AL1MOUNT:SURFACENEMA:1			
			PROVIDE DOOR WITH LOCK AND HINGED	TRIM. PRO	OVIDE	
			PANEL TOTALS			
	PH/ PH/	ASE A ASE B	8.849 KVA 9.517 KVA	73 79	.7 .3	AMP AMP
	PH/	ASE C	8.374 KVA	69	.8	AMP
Ν	G	с	DESCRIPTION	LOAD KVA	LOAD TYPE	скт
10	10	3/4"	CHILLER CH-2 CONTROLS	0.600	0	2
10	10	3/4"	CH-2 PIPING HEAT TRACE (NOTE 1) CH-2 PIPING HEAT TRACE (NOTE 1)	1.000	0	4
N/A	12	3/4"	PUMP PCHWP-2 [3HP]	1.320 1.320	M M	8 10
			SDARE	1.320	M	12
			SPARE		0	16
			SPARE SPACE		0	18 20
			SPACE SPACE		0	22 24
			SPACE		0	26
			SPACE SPACE		0	28 30
			FED FROM: PANEL AL1			
			MOUNT:SURFACENEMA:3R			- -
						-
			PROVIDE DOOR WITH LOCK AND HINGEE COPPER BUSS BARS AND BOLT ON BREA) TRIM. PR AKERS.	OVIDE	
	PH		PANEL TOTALS	36	5	AMP
	PH/ PH/	ASE B	4.640 KVA	38	 	AMP
						,
N	G	с	DESCRIPTION	LOAD KVA		скт
12	12	3/4"	HWUH-1	0.250	Н	2
12 12	12 12	3/4" 3/4"	HWUH-2 CHEMICAL FEED - M01	0.250	H H	4
12 12	12 12	3/4" 3/4"	CHEMICAL FEED - M02	0.600	Н Н	8
12	12	3/4"	RECEPT - M01, 509A	0.720	R -	12
12 12	12 12	3/4" 3/4"	BOILER B-1	0.720	к Н	14 16
12	12	3/4"	BOILER B-2 SPARE	0.449	H O	18 20
10	10	3///"	SPARE	0.200	0	22
12	12	3/4"	RECIRCULATION PUMP	0.200	0	24
12 12	12 12	3/4" 3/4"	RECEPT - E02 DDC PANEL - M02	0.360	R H	28 30
N/A	12	3/4"		1.320	M M	32 34
				1.320	M	36
N/A	12	3/4"	PHWP-2 [3HP]	1.320 1.320	M	38 40
			SPARE	1.320	M	42
			SPARE		0	46
			SPARE		0	50
			SPARE SPARE		0	52 54
			SPACE SPACF		0	56 58
			SPACE		0	60
			FED FROM: PANEL AL1 MOUNT: SURFACE			_
			NEMA: 1			_

					P	ANI	ELI	MDI	Ρ								
DESCRIPTION	с	РН	N	G	СВ	A	PHASE B	С	СВ	РН	N	G	с	DESCRIPTION	LOAD KVA	LOAD TYPE	скт
PANEL AH1	SEE	POWI	ER RI	SER	100	23.472	22.963	24.399	225	SEE	E POV	VER R	RISER	PANEL AH2	15.080 15.080 16.945	S S S	2 4 6
PANEL CH1	SEE	POWI	ER RI	SER	125	16.444	16.444	40.407	60	6	6	10	1"	SPD		0	8 10
NSFORMER TA (AL1)	SEE	POWI	ER RI	SER	225	31.450	29.243	16.127	225					SPARE		0	12 14 16
PANEL BH	SEE	POWI	ER RI	SER	300	14.559	15.477	31.313	100					SPARE		0 0 0	18 20 22
	0"	2/0		2/0	475	18.005	48.005	14.669	100							0	24 26
	2	2/0	N/A	2/0	175	0.000	18.005	18.005	100					SPACE		0	28 30 32
SPACE SPACE						0.000	0.000	0.000						SPACE SPACE SPACE		0 0 0	34 36 38
SPACE SPACE			DTO	ΤΔΙ.		102.02	0.000	0.000						SPACE SPACE		0	40 42
ASE 4 WIRE 800 A MCB (NOTES 1 & 2)	(R)			TYPE CLES	CC	25.40 82.55	ED 1 70%	DEMANE 17.70 82.55)					FED FROM: UTILITY TRANSFORMER MOUNT: SURFACE NEMA: 1	<u>.</u>		-
LABEL		(L)	(H) F LIGH O) O1	IVAC TING THER		94.00 17.20 29.61	100% 125% 100%	94.00 21.50 29.61									-
2	(K) I	KITCH	IEN E	QUIP OTAL		0.00 248.76	100% 99%	0.00 245.36						PROVIDE DOOR WITH LOCK AND HINGED COPPER BUSS BARS AND BOLT ON BREAK	ERS.		
MAIN BREAKER. CTION PER NEC 240.87. TOR CIRCUIT BREAKER.												PH/ PH/ PH/	ASE A ASE B ASE C	102.509 KVA 100.736 KVA 103.084 KVA	370 363 372).1 3.7 2.1	AMP AMP AMP
					P				1								1
DESCRIPTION	С	PH	N	G	СВ	A 4.300	В	с	CB 20	PH 12	N 12	G 12	C 3/4"	DESCRIPTION LTS - 513, 515, 517, 519 ,521	KVA 1.800		СКТ 2
EUH-1 [7.5KW]	3/4"	12	12	12	15	4.092	3.799	4.954	20 20 20	12 12 12	12 12 12	12 12 12	3/4" 3/4" 3/4"	LTS - 510,A, 512, 514, 516, 518, 520, 522 LTS - 501, 503, 505, 507, 509,A,B, 502, M01 LTS - 502, 504, 506, 508	1.299 2.454 1.592	L	4 6 8
EUH-2 [7.5KW]	3/4"	12	12	12	15	0.000	4.084	2.500	20 20	12	12	12	3/4"	LTS - C500, C500A, C501 SPARE	1.584	L	10 12
SPARE SPARE SPARE					15 20 20	0.000	0.000	0.000	20 20 20					SPARE SPARE SPARE		0 0 0	14 16 18
SPARE SPARE					20 20 20	0.000	0.000	0.000	20 20 20					SPARE SPARE		0	20 22 24
SPACE SPACE					20	0.000	0.000	0.000	20					SPACE SPACE		0 0 0	24 26 28
SPACE		LOA	D TO	TAL:	CC	8.39 DNNECT	7.88 ED	0.000 7.45 DEMANE						SPACE FED FROM: MDP		0	30
ASE 4 WIRE 100_A BUS LABEL	(R)	RECE (N	EPTA M) MC (H) H	CLES DTOR HVAC		0.00 0.00 15.00	100% 100% 100%	0.00 0.00 15.00						MOUNT: SURFACE NEMA: 1			-
	(K) I	(L) (KITCH	LIGH O) O1 IEN E	iting Ther Quip		8.73 0.00 0.00	125% 100% 100%	10.91 0.00 0.00						PROVIDE DOOR WITH LOCK AND HINGED	 Trim. Pr [,] Kers.	OVIDE	
			Т	OTAL		23.73	109%	25.91				PH	ASE A	PANEL TOTALS 9.164 KVA	33	3.1	AMP
												PH. PH.	ASE B ASE C	8.608 KVA 8.140 KVA	31	.1).4	AMP AMP
					Ρ	AN	EL	AH	2								
DESCRIPTION	с	РН	N	G	СВ	A	PHASE B	С	СВ	РН	N	G	с	DESCRIPTION	LOAD KVA	LOAD TYPE	скт
SHWP-1 [3HP]	3/4"	12	N/A	12	15	2.660	2.660	2.660	15	12	N/A	12	3/4"	SHWP-2 [3HP]	1.330 1.330 1.330	M M M	2 4 6
SCHWP-1 [5HP]	3/4"	12	N/A	12	15	4.212	4.212	4 212	15	12	N/A	12	3/4"	SCHWP-2 [5HP]	2.106 2.106	M M M	8 10 12
AS-1 SUPPLY [10HP]	3/4"	10	10	10	25	7.756	7.756	1.212	25	10	10	10	3/4"	DOAS-1 EXHAUST [10HP]	3.878 3.878	H	12 14 16
AS-1 ENERGY WHEEL	3/4"	12	12	12	15	0.452	0.452	7.756	15					SPARE	3.878	Н О О	18 20 22
SPACE						0.000	0.000	0.452	20					SPARE		0	24 26 28
						0.000	0.000	0.000						SPACE		0	30 32
SPACE SPARE					20	0.000	0.000	0.000						SPACE SPACE SPACE		0 0 0	34 36 38
SPARE FC-2-509	3/4"	12	12	12	20 15	45.00	0.000	1.865						SPACE SPACE		0 0	40 42
ASE 4 WIRE 225 A BUS	(R)			TYPE CLES DTOR	CC	0.00 0.00 20.62	ED 100%	DEMANE 0.00 20.62)					FED FROM: MDP MOUNT: SURFACE NEMA: 1			-
LABEL		(L) ((H) F LIGH O) O1	IVAC TING THER		26.49 0.00 0.00	100% 125% 100%	26.49 0.00 0.00									-
)1	(K) I	KITCH	IEN E	QUIP OTAL		0.00 47.11	100% 100%	0.00 47.11						PROVIDE DOOR WITH LOCK AND HINGED COPPER BUSS BARS AND BOLT ON BREAK	ERS.		
												PH/ PH/ PH/	ASE A ASE B ASE C	15.080 KVA 15.080 KVA 16.945 KVA	54 54 61	.4 .4 .2	AMP AMP AMP
DESCRIPTION	с	РН	N	G	СВ	'AN 			СВ	РН	N	G	с	DESCRIPTION	LOAD	LOAD	скт
PANEL AL2	SEE	POWI		SER	225	A 16.300	B 17.460	C	125	SEE				PANEL AL3	4.380 4.640	S S	2 4
	055			050	450	9.810	7.020	15.920	100	055					4.640	S S	6 8
	SEE				150	0.000	7.839	9.949	100	SEE	- 900				0.720	5 5 0	10 12 14
SPARE					100 20	0.000	0.000	0.000	30	10	10	10	3/4"	SPD		0 0 0	16 18 20
					20 20		0.000	0.000	20 20							0	22 24
					20 20 20	0.000	0.000	0.000	20 20 20							0	26 28 30
	1"	6	6	6	20 20 20	0.000	0.000	1.500	20 20 20							0 0 0	32 34 36
IE BFP HEATER (NOTE 1) ACCU-3	1" 3/4"	6 10	6 N/A	6 10	20 20 15	5.340	3.944		40	6	6	10	1 1/4"	SEWAGE LIFT PUMP STATION	3.840 3.840	0 0	38 40
			D TO	TAL:		31.45 DNNECT	29.24 ED	3.944 31.31 DEMANE						FED FROM: TRANSFORMER TA	3.840	0	42
ASE 4 WIRE 600_AMCB LABEL	(R)	RECE (1	=PTA(M) MC (H) H	ULES DTOR HVAC		2.34 7.92 0.21	100% 100% 100%	2.34 7.92 0.21						MOUNT: SURFACE NEMA: 1			-
2	(K)	(L) (KITCH	LIGH O) OT IEN E			0.00 19.72 0.00	125% 100% 100%	0.00 19.72 0.00						PROVIDE DOOR WITH LOCK AND HINGED TO COPPER BUSS BARS AND BOLT ON BREAK	TRIM. PR ⁱ (ERS.	OVIDE	
AKER FOR FREEZE PROTECTIO		CUIT.	T	UTAL		30.19	100%	JU.19				PH.	ASE A	PANEL TOTALS 31.450 KVA	26	2.1	AMP
	_					_	·				_	PH. PH.	ASE C	29.243 KVA 31.313 KVA	24	0.9	AMP
		_	— -							—	—			<u> </u>			· _ 4

l	LOAD TYPE	LOAD KVA	DESCRIPTION	с	PH	N	
1	Н	1.524					Ī
3	Н	1.524	FC-4-521 [3HP]	3/4"	10	N/A	
5	Н	1.524					
7	Н	1.865	FC-2-522	3/4"	10	N/A	Ī
9	Н	1.865	FC-2-620	3/4"	10	N/A	Ī
11	Н	1.865	FC-2-520	3/4"	10	N/A	Ī
13	Н	1.865	FC-1-621	3/4"	10	N/A	Ī
15	Н	1.865	FC-2-519	3/4"	10	N/A	Ī
17	Н	1.865	FC-2-619	3/4"	10	N/A	Ī
19	Н	1.865	FC-2-618	3/4"	10	N/A	Ī
21	Н	1.865	FC-2-517	3/4"	10	N/A	Ī
23	Н	1.865	FC-1-617	3/4"	10	N/A	Ī
25	Н	1.865	FC-2-515	3/4"	10	N/A	Ī
27	Н	1.865	FC-2-513	3/4"	10	N/A	Ī
29	Н	1.865	FC-1-610	3/4"	10	N/A	Ī
31	Н	1.865	FC-1-613	3/4"	10	N/A	Γ
33	Н	1.865	FC-3-ST-1	3/4"	10	N/A	
35	0		SPARE				
37	0		SPARE				I
39	0		SPARE				Γ
41	0		SPARE				Ī
2	180Y/277 MAINS: 22000	V MCB AIC	3 PHASE 4 WIRE 125_ A MCB SE LABEL	(R)	LOA L(RECE () (L) (D TO OAD 1 EPTA(M) MC (H) F LIGH O) O1	
		MEZZA	ANINE	(K) ł	KITCH	IEN E	5

скт	LOAD TYPE	LOAD KVA	DESCRIPTION	с	РН	N	I
1	R	0.540	RECEPT - EQUIPMENT PLATFORM	3/4"	12	12	
3	R	0.540	RECEPT - EQUIPMENT PLATFORM	3/4"	12	12	
5	R	0.720	RECEPT - EQUIPMENT PLATFORM	3/4"	12	12	
7	0		SPARE				
9	0		SPARE				
11	0		SPARE				
13	0		SPARE				
15	0		SPARE	_			
17	0		SPARE	_			
19	0		SPACE				
21	0		SPACE				
23	0		SPACE				_
:	208Y/120 MAINS: 22000		3 PHASE 4 WIRE <u>100</u> A MCB SE LABEL MENT PLATFORM	(R) (K) I	RECE (I (L) (KITCH	EPTA M) MC (H) F LIGH O) OT	
4.							
					D		
скт	LOAD	LOAD	DESCRIPTION	с	Р/	AN N	
СКТ	LOAD TYPE	LOAD KVA	DESCRIPTION	С	Р/ рн	\N ∾	
CKT	LOAD TYPE R	LOAD KVA 0.540	DESCRIPTION RECEPT - C01, C02	C 3/4"	Р/ рн	N	
CKT 1 3	LOAD TYPE R R	LOAD KVA 0.540 0.900	DESCRIPTION RECEPT - C01, C02 RECEPT - C02, C04	C 3/4" 3/4"	P / PH 10	N 10	
CKT 1 3 5	LOAD TYPE R R R	LOAD KVA 0.540 0.900 0.540	DESCRIPTION RECEPT - C01, C02 RECEPT - C02, C04 RECEPT - EXTERIOR	C 3/4" 3/4" 3/4"	P <i>H</i> 10 10	N 10 10	
CKT 1 3 5 7	LOAD TYPE R R R O	LOAD KVA 0.540 0.900 0.540	DESCRIPTION RECEPT - C01, C02 RECEPT - C02, C04 RECEPT - EXTERIOR SPARE	C 3/4" 3/4" 3/4"	P <i>H</i> 10 10	N 10 10 10	
CKT 1 3 5 7 9 11	LOAD TYPE R R R O O	LOAD KVA 0.540 0.900 0.540	DESCRIPTION RECEPT - C01, C02 RECEPT - C02, C04 RECEPT - EXTERIOR SPARE SPARE	C 3/4" 3/4" 3/4"	PH 10 10	N 10 10 10	
CKT 1 3 5 7 9 11	LOAD TYPE R R R R O O O	LOAD KVA 0.540 0.900 0.540 0.540	DESCRIPTION RECEPT - C01, C02 RECEPT - C02, C04 RECEPT - EXTERIOR SPARE SPARE SPARE	C 3/4" 3/4" 3/4"	PH 10 10 10	N 10 10	
CKT 1 3 5 7 9 11 13 15	LOAD TYPE R R R 0 0 0 0 0	LOAD KVA 0.540 0.900 0.540 4 0.540	DESCRIPTION RECEPT - C01, C02 RECEPT - C02, C04 RECEPT - EXTERIOR SPARE SPARE SPARE SPARE SPARE	C 3/4" 3/4" 3/4"	P/ PH 10 10	N 10 10 10	
CKT 1 3 5 7 9 11 13 15 17	LOAD TYPE R R R 0 0 0 0 0 0 0	LOAD KVA 0.540 0.900 0.540 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DESCRIPTION RECEPT - C01, C02 RECEPT - C02, C04 RECEPT - EXTERIOR SPARE SPARE SPARE SPARE SPARE SPARE SPARE	C 3/4" 3/4" 3/4"	P/ PH 10 10	N 10 10 10	
CKT 1 3 5 7 9 11 13 15 17 19	LOAD TYPE R R R 0 0 0 0 0 0 0 0 0 0	LOAD KVA 0.540 0.900 0.540 0.540 0 0.540	DESCRIPTION RECEPT - C01, C02 RECEPT - C02, C04 RECEPT - EXTERIOR SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	C 3/4" 3/4" 3/4"	P/ PH 10 10 10	N 10 10 10	
CKT 1 3 5 7 9 11 13 15 17 19 21	LOAD TYPE R R R 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	LOAD KVA 0.540 0.540 0.540 0.540 0.540 0.540 0.540	DESCRIPTION RECEPT - C01, C02 RECEPT - C02, C04 RECEPT - EXTERIOR SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	C 3/4" 3/4" 3/4"	P/ PH 10 10 10	N 10 10 10	
CKT 1 3 5 7 9 11 13 15 17 19 21 23	LOAD TYPE R R R 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	LOAD KVA 0.540 0.540 0.540 0.540 0.540 0.540 0.540 0.540 0.540 0.828	DESCRIPTION RECEPT - C01, C02 RECEPT - C02, C04 RECEPT - EXTERIOR SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	C 3/4" 3/4" 3/4" 	P/ PH 10 10 10 10 10 10	N /A	
CKT 1 3 5 7 9 11 13 15 17 19 21 23 2 2 2 2 2 2 2 2 2 2 2 2 2	LOAD TYPE R R R 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	LOAD KVA 0.540 0.900 0.540 0 0.828 0.828 0.828 0.828 0.828 0.828 0.828	DESCRIPTION RECEPT - C01, C02 RECEPT - C02, C04 RECEPT - EXTERIOR SPARE SPARE	C 3/4" 3/4" 3/4" 3/4" (R) (K) F	P/ PH 10 10 10 10 10 LOA LOA LCA (M (L) (((ITCH	N/A 10 10 10 10 10 10 10 10 10 10	

									PAN	IEL	BH								
СКТ	LOAD TYPE	LOAD KVA	DESCRIPTION	с	РН	N	G	СВ	A	PHASE B	E C	CB	PH	N	G	C	DESCRIPTION	LOAD KVA	LOA TYP
3 5 7	S S O	13.730 13.663	TRANSFORMER TB	SEE	POW		ISER	175	0.569	15.477	14.669	20 20 20 20	12 12 12 12	12 12 12 10	12 12 12 12	3/4" 3/4" 3/4"	LTS - 605, 606, 608, 610A,B, 614, 616, 618 LTS - S2-0, S1-0, C600, C601 LTS - EXTERIOR PERIMETER	1.747 1.006 0.569	
9 11	0		SPARE					100	0.000	0.000	0.000	20 20 20					SPARE SPARE		0
13 15 17	0		SPACE						0.000	0.000	0.000	20 20 20					SPARE SPARE SPARE	<u> </u>	0
19 21 23	0 0 0		SPACE SPACE SPACE						0.000	0.000	0.000						SPACE SPACE SPACE	<u> </u>	0 0 0
25 27 29	0 0 0		SPACE SPACE SPACE						0.000	0.000	0.000						SPACE SPACE SPACE		0 0 0
4	180Y/277	V	3 PHASE 4 WIRE	(R)	LOA	AD TC OAD EPTA	TAL: TYPE CLES	С	14.56 ONNECT 23.06	15.48 TED 72%	14.67 DEMANE 16.53	ō					FED FROM: MDP MOUNT: SURFACE		
	30000	AIC	SE LABEL		(L)	(H) I (H) I) LIGH (O) O	HVAC ITING THER		4.84 6.92 9.89	100% 100% 125% 100%	4.84 8.65 9.89								
NOT	ES:	ELEC	TRICAL 606	(K)	KITCH	HEN E	QUIP OTAL		0.00 44.71	100% 89%	0.00 39.91	-					PROVIDE DOOR WITH LOCK AND HINGED COPPER BUSS BARS AND BOLT ON BREA PANEL TOTALS	KERS.	
1. 2. 3. 4.															PH PH PH	ASE A ASE B ASE C	12.996 KVA 13.815 KVA 13.094 KVA	49	6.9 9.9 7.3
скт	LOAD	LOAD	DESCRIPTION	с	РН	N	G	F	PAN	EL PHASE	BL′	1 св	РН	N	G	с	DESCRIPTION	LOAD	LOA
1	S S	KVA 8.500 9.920	PANEL BL2	SEE	POW	'ER RI	ISER	125	A 10.734	B 12.274	C	125	SEE		/ER F	RISER	PANEL BL3	2.234 2.354	S S
5 7 9	S O O	9.807	SPARE					100	0.000	0.000	12.207	30	10	10	10	3/4"	SPD	2.400	S 0 0
11 13	0		SDARE					100	0.000	0.000	0.000						SDACE		0
17 17 19	0		SPARE					20	0.000	0.000	0.000						SPACE		0 0 0
21 23 25	0 0 0		SPARE SPARE SPARE					20 20 20	0.000	0.000	0.000						SPACE SPACE SPACE		0 0 0
27 29 31	0	0.728	SPARE SPARE					20 20	0.728	0.000	0.000	20					SPACE SPACE		0
33 35	H	0.728	CU-1 CU-2	3/4'	10 10	N/A	10 10	15 15	0.728	0.728	0.728	20 20 20					SPARE SPARE SPARE		0
37 39 41	H H H	0.728 0.728 0.728	CU-3	3/4'	10	N/A	10	15	0.728	0.728	0.728	20 20 20					SPARE SPARE SPARE		0 0 0
	208Y/120	V	3 PHASE 4 WIRE	(R)		AD TO OAD EPTA	TAL: TYPE CLES	С	12.19 ONNECT 23.06	13.73 FED 72%	13.66 DEMANE 16.53	Ď					FED FROM: TRANSFORMER TB MOUNT: SURFACE		
	22000	AIC	SE LABEL		(L)	(H) I (H) I (O) O	HVAC ITING THER		4.84 1.80 9.89	100% 125% 100%	4.84 2.25 9.89								
NOT	ES:	ELEC	TRICAL 606	(K)	KITCH	HEN E	QUIP OTAL		0.00 39.58	100% 85%	0.00 33.50						PROVIDE DOOR WITH LOCK AND HINGED COPPER BUSS BARS AND BOLT ON BREA PANEL TOTALS	TRIM. PR KERS.	
1. 2. 3.															PH PH PH	ASE A ASE B ASE C	10.318 KVA 11.621 KVA 11.564 KVA	86 96 91	6.0 6.8 6.4
4.																			
скт	LOAD	LOAD	DESCRIPTION	с	РН	N	G	СВ			BL/	СВ	РН	N	G	с	DESCRIPTION		LOA
1 3	R R	0.720	RECEPT - 606, 608 RECEPT - 604	3/4" 3/4"	12 12	12 12	12 12	20 20	A 1.620	B 1.260		20 20	10 10	10 10	10 10	3/4" 3/4"	RECEPT - 618 RECEPT - 618	0.900	R
5 7 9	R R R	0.360 0.180 0.960	RECEPT - 604 RECEPT - E00 EWC - C600 (NOTE 1)	3/4" 3/4" 3/4"	12 12 12	12 12 12	12 12 12	20 20 20	1.080	1.500	1.260	20 20 20	10 10 10	10 10 10	10 10 10	3/4" 3/4" 3/4"	RECEPT - 620 RECEPT - 620 RECEPT - 620 RECEPT - C600	0.900 0.900 0.540	R R R
11 13 15	R R R	0.540 0.300 0.300	RECEPT - C600, C601 RECEPT - 610 RECEPT - 610	3/4" 3/4" 3/4"	12 12 12	12 12 12	12 12 12	20 20 20	1.200	1 200	1.440	20 20 20	10 10 10	10 10 10	10 10 10	3/4" 3/4" 3/4"	RECEPT - 621 RECEPT - 621 RECEPT - 619	0.900	R R R
17 19	0	1.500 1.200	MICROWAVE - 610 REFRIGERATOR - 610	3/4" 3/4"	12 12 12	12 12 12	12 12 12	20 20 20	1.800		2.400	20 20 20	10 10 10	10 10 10	10 10 10	3/4" 3/4"	RECEPT - 619 RECEPT - EXTERIOR	0.900	R
21 23 25	O R R	1.200 0.600 0.600	COPIER - 610 RECEPT - 610 RECEPT - 610	3/4" 3/4" 3/4"	12 12 12	12 12 12	12 12 12	20 20 20	1.500	2.100	1.500	20 20 20	10 10 12	10 10 12	10 10 12	3/4" 3/4" 3/4"	RECEPT - 617 RECEPT - 617 RECEPT - 615	0.900 0.900 0.900	R R R
27 29 31	R R R	0.360 0.720 0.400	RECEPT - 610A, 610B RECEPT - 612 RECEPT - 614, 616	3/4" 3/4" 3/4"	12 12 12	12 12 12	12 12 12	20 20 20	1.300	1.260	1.620	20 20 20	12 12 12	12 12 12	12 12 12	3/4" 3/4" 3/4"	RECEPT - 612, 615 RECEPT - 613 RECEPT - 613	0.900 0.900 0.900	R R R
33 35 37	0	0.800 1.587	SUMP PUMP ALARM PANEL SUMP PUMP [3/4HP] SPARE	3/4" 3/4"	12 10	12 10	12 10	20 25 20	0.000	2.600	1.587	20 20 20	12	12	12	3/4"	LTS/CONTROLS - ELEVATOR E00 SPARE SPARE	1.800	L 0
39 41	0		SPARE SPARE					20 20	8.50	0.000	0.000	20 20 20					SPARE SPARE		0
	208Y/120 MAINS:	V MLO	3 PHASE 4 WIRE 125 A BUS	(R)	L L REC	_OAD _OAD EPTA (M) M(TYPE CLES	C	20.14 0.00	TED 75% 100%	DEMANI 15.07 0.00	D					FED FROM:BL1MOUNT:SURFACENEMA:1		
	22000	AIC	SE LABEL		(L	(H) LIGH ((O) O	HVAC ITING THER		0.00 1.80 6.29	 100% 125% 100% 	0.00 2.25 6.29								
NOT	ES:			(K)		HEN E	OTAL		28.23	100%	23.61	-					COPPER BUSS BARS AND BOLT ON BREA	KERS.	
1. 2. 3.	PROVID	E GFCI C	JIRCUIT BREAKER FOR WATER COOLER.												PH PH PH	ASE A ASE B ASE C	7.109 KVA 8.296 KVA 8.202 KVA	6	9.2 /9.1 /8.3
								F	Σ ΔΝ	FI	BI 1	<u></u>							
скт	LOAD TYPE	LOAD KVA	DESCRIPTION	с	РН	N	G	СВ		PHASI B		СВ	РН	N	G	с	DESCRIPTION	LOAD KVA	LOA TYP
1 3	R R	0.400	RECEPT - EXTERIOR RECEPT - 605	3/4" 3/4"	12 12	12 12	12 12	20 20	0.634	0.954		15	10	N/A	10	3/4"	ACU-1, ACU-2	0.234	H H
5 7 9	R R R	0.600 0.600 0.600	RECEPT - 605 RECEPT - 605 RECEPT - 605	3/4" 3/4" 3/4"	12 12 12	12 12 12	12 12 12	20 20 20	0.600	0.600	0.600	20 20 20					SPARE SPARE SPARE		0 0 0
11 13 15	0 0 0	1.000 1.000 0.800	DATA RACK - 605 DATA RACK - 605 AMPLIFIER CABINET (NOTE 1)	3/4" 3/4" 3/4"	12 12 12	12 12 12	12 12 12	20 20 20	1.000	0.800	1.000	20 20 20					SPARE SPARE SPARE	<u> </u>	0 0 0
17 19 21	0	0.800	NAC PANEL (NOTE 1) SPARE	3/4"	12	12	12	20 20	0.000	0.000	0.800	20 20					SPARE SPARE	<u> </u>	0
23 25	0		SPARE SPARE SPARE					20 20 20	0.000	0.000	0.000	20 20 20					SPARE SPARE SPARE		0
27 29 31	0 0 0		SPARE SPARE SPARE					20 20 20	0.000	0.000	0.000	20 20 20					SPARE SPARE SPARE		0 0 0
33 35 37	0		SPARE SPARE					20 20	0.000	0.000	0.000	20 20 20					SPARE SPARE SPACE		0
39 41	0		SPACE SPACE			A =			5.000	0.000	0.000	20 20 20					SPACE SPACE		0
	LOAD TYPE LOAD KXA DESCRIPTION 8 13.790 TRANSFORMER TB 8 13.780 TRANSFORMER TB 0 0 0 SPACE 0 10 SPACE SPACE 10 10 SPACE SPACE 11 10 SPACE SPACE 10 10 SPACE SPAC			(R)	<u>LO/</u> L REC	AD TC _OAD EPTA (M) M	TYPE CLES	C	2.23 ONNEC 2.92	2.35 TED 100%	2.40 DEMANI 2.92	Ō					FED FROM: BL1 MOUNT: SURFACE NEMA: 1		
	22000	AIC	SE LABEL		(L	(H) (H)) LIGH (O) O	HVAC ITING THER		0.47 0.00 3.60	100% 125% 100%	0.47 0.00 3.60								
NOT	ES:	ELEC	TRICAL E606	(K)	KITCI	HEN E T	OTAL		0.00 6.99	100%) 100%	0.00	-					PROVIDE DOOR WITH LOCK AND HINGED COPPER BUSS BARS AND BOLT ON BREA	ואוM. PR KERS.	ιυVIDE
1. 2. 3.	PROVID	E RED B	REAKER LOCK FOR FIRE ALARM CIRCUIT.												PH PH PH	ASE A ASE B ASE C	2.234 KVA 2.354 KVA 2.400 KVA	1 1 2	8.6 9.6 0.0
<u> </u>															. 1				

EXISTING PANEL LINASSIGNED (NOTE 1) (ALTERNATE #3)
CKT LOAD TYPE LOAD KVA DESCRIPTION C PH N G CB PHASE A CB PH N G C DESCRIPTION LOAD KVA LOAD TYPE CKT
10WATER COOLEREXISTING200.00020EXISTING10203RRECEPT - HALLEXISTING200.00020EXISTINGLIGHTSL45OICE MACHINEEXISTING200.00020EXISTINGRECEPTACLES "OFF"R67SImage: Construction of the second s
9 S FEED TO PANEL EXISTING 100 20 EXISTING HOOD EXHAUST FAN K 10 11 S
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1 0 0 0 0 0 0 0 0 0 0 23 H AC/HEAT PUMP - ROOF EXISTING 20 EXISTING RECEPT - RIGHT WALL R 24 25 H AC/HEAT PUMP - ROOF 80 0.000 0 EXISTING SPACE 0 26 27 O SPACE 0.000 0 0 0 SPACE 0 28
29 0 FIRE SUPPRESION "ON" EXISTING 20 0.000 0.000 SPACE 0 30 LOAD TOTAL: 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 <t< th=""></t<>
MAINS: MCB 100 A MCB (M) MOTOR 0.00 100% 0.00 10000 AIC SE LABEL (H) HVAC 0.00 100% 0.00 (L) LIGHTING 0.00 125% 0.00 MFG/MODEL#: SQUARE-D/NQOD (K) KITCHEN EQUIP 0.00 100% 0.00 100% 0.00 TOTAL 0.00 0% 0.00 0% 0.00
NOTES: PANEL TOTALS 1. REFER TO PANEL SCHEDULE Z. PHASE A 0.000 KVA 0.0 AMP 2. PHASE B 0.000 KVA 0.0 AMP 3. PHASE C 0.000 KVA 0.0 AMP 4. O.000 KVA 0.0 AMP
PANEL ZL (PART OF ALTERNATE #3)
LOAD TYPE LOAD KVA LOAD KVA DESCRIPTION P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P
3 R 0.720 RECEPT - C05, CT1, CT2, CT3 3/4" 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
13 0 0.900 EWC - C05 (NOTE 1) 3/4" 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 <
21 R 0.360 RECEPT - C05A 3/4" 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 13/4" 100D EXHAUST FAN (NOTE 2) 1.080 K 24 10 1.200 COPIER 3/4" 12 12 3/4" 3DOOR REFRIGERATOR (NOTE 2) 0.960 K 28 27 0 1.500 Description (A to the set the
29 O SPARE I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I
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49 0 SPACE 0.000 SPACE 0 50 51 0 SPACE 0.000 0.000 SPACE 0 52 53 0 SPACE 0.000 0.000 SPACE 0 54 55 0 SPACE 0.000 SPACE
33 0 0 0 0 0 0 0 0 57 0 SPACE 0.000 0 SPACE 0 58 59 0 SPACE 0.000 0.000 0.000 0 0.000 0 00 58 59 0 SPACE 0.000 0.000 0.000 0.000 0 00 60
LOAD TYPE CONNECTED DEMAND FED FROM: EXISTING MDP 208Y/120 V 3 PHASE 4 WIRE (R) RECEPTACLES 7.20 100% 7.20 MAINS: MLO 225 A BUS (M) MOTOR 0.00 100% 0.00 22000 AIC SE LABEL (H) HVAC 14.03 100% 14.03
PE STORAGE CLOSET C05C (C) LIGHTING 2.54 125% 3.17 (O) OTHER 10.12 100% 10.12 (K) KITCHEN EQUIP 4.20 100% 4.20 TOTAL 38.09 102% 38.72
NOTES:1. PROVIDE GFCI CIRCUIT BREAKER.2. EXISTING LOAD MOVED FROM UNASSIGNED PANEL TO THIS PANEL.3.PHASE A9.760KVA81.3AMP1.1AMP3.PHASE B14.428KVA120.2AMP
4.

скт	LOAD TYPE	LOAD KVA	
1	0		
3	R		
5	0		
7	S		
9	S		
11	S		
13	L		
15	Н		
17	Н		
19	0		
21	0		
23	Н		
25	Н		
27	0		
29	0		
NOT 1. 2. 3. 4.	208Y/120 MAINS: 10000 ES: REFER 1	V MCB AIC	L SCHI
скт	LOAD TYPE	LOAD KVA	
	-		

•	TYPE	KVA	
1	R	0.360	
3	R	0.720	
5	R	0.900	
7	R	0.540	
9	R	0.360	
11	0	1.200	
13	0	0.900	
15	L	0.572	
17	L	0.796	L
19	0	1.200	
21	R	0.360	
23	Н	0.396	ŀ
25	0	1.200	
27	0	1.500	
29	0		
31	0		
33	0		
35	0		
37	0		
39	Н	6.240	
41	Н	6.240	
43	0		
45	0		
47	0		
49	0		
51	0		
53	0		
55	0		
57	0		
59	0		
2	208Y/120 MAINS: 22000	V MLO AIC	
		PE ST	OR
NOT 1. 2. 3.	ES: PROVIDI EXISTIN	E GFCI C G LOAD	IRC MO\

Image: state in the	D	DESCRIPTION	с	РН	N	G	СВ		PHASE		СВ	РН	N	G	с	DESCRIPTION	LOAD	LOAD	ск
MICL 01 - HALL Description Description <thdescription< th=""></thdescription<>	•						20	A	В	С							KVA	TYPE	
CT MAD-BIT PARTING G DO PARTING DO	_			EXIS			20	0.000	0.000		20		EXI	STING				R I	2
PABL 10 PMAL Domma To Month No.	+			EXIS	TING		20		0.000	0.000	20		EXIS					R	4
HEAD 10 PAREL LOST IND 100 RECOMPTENDER FORM INCOMPTENDER FORM <td>+</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>20</td> <td>0.000</td> <td></td> <td>0.000</td> <td>20</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ĸ</td> <td>8</td>	+						20	0.000		0.000	20							ĸ	8
LTG-COMPENDAGE NORM EXETING 20 EXETING 20 EXETING 20 EXETING 20 EXETING 00 CONTRAINED 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 </td <td></td> <td>FEED TO PANEL</td> <td colspan="4">EXISTING</td> <td>100</td> <td></td> <td>0.000</td> <td>0.000</td> <td>20</td> <td></td> <td>EXIS</td> <td colspan="2">EXISTING</td> <td>HOOD EXHAUST FAN</td> <td></td> <td>К К</td> <td>10</td>		FEED TO PANEL	EXISTING				100		0.000	0.000	20		EXIS	EXISTING		HOOD EXHAUST FAN		К К	10
Point Point <t< td=""><td></td><td>LTS - CONFERENCE ROOM</td><td colspan="5">EXISTING</td><td>0.000</td><td></td><td></td><td>20</td><td></td><td>EXIS</td><td>STING</td><td>i</td><td>3-DOOR REFRIGERATOR</td><td></td><td>K</td><td>14</td></t<>		LTS - CONFERENCE ROOM	EXISTING					0.000			20		EXIS	STING	i	3-DOOR REFRIGERATOR		K	14
Index Usad First No. South Time - Action Provide Image: Time - Action Provide		FCU-1C, FCU-2C, EF	EXISTING EXISTING EXISTING				20		0.000		20		EXIS	STING	i	COMPUTER - LEFT SIDE		0	16
NIGTINGLOAD BUSCHTUG SUBSTING		UC-5C, UC-6C					20			0.000	20		EXIS	STING		COMPUTER - RIGHT SIDE		0	18
Lobolithic Size Lobolithic Size Lobolithic Size R = 2 Restriction Restriction R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2 R = 2				EXIS			30	0.000			20		EXIS	STING		RECEPT - LEFT WALL		R	20
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BNACE CO Statu St	_	AC/HEAT PUMP - ROOF		EXIS	TING		80	0.000								SPACE		0	26
Intersuperson toric Loss toric Dot some toric Dot s	_	SPACE	-						0.000							SPACE		0	28
Image Image <th< td=""><td></td><td>FIRE SUPPRESION "ON"</td><td></td><td>EXIS</td><td></td><td>T A I .</td><td>20</td><td>0.00</td><td>0.00</td><td>0.000</td><td></td><td></td><td></td><td></td><td></td><td>SPACE</td><td></td><td>0</td><td>30</td></th<>		FIRE SUPPRESION "ON"		EXIS		T A I .	20	0.00	0.00	0.000						SPACE		0	30
B Host A WIE (I) PLOSE						TAL: TYPE	C		0.00 ED	DEMANI	D					FED FROM: EXISTING MDP			
Disk Auszis Initiality Multicity Elements Multicity Elements Multicity <		3 PHASE 4 WIRE	(R)	REC	EPTAC	CLES	-	0.00	100%	0.00						MOUNT: SURFACE			_
	_			(M) MC	TOR		0.00	100%	0.00						NEMA: 1			_
EL SCHEDULE Z. PLASE 6	_	SE LABEL		(L)	LIGH	TING		0.00	125%	0.00						MFG/MODEL#: SQUARE-D/NQOD			_
Image: Note: Difference Difference <thdifference< th=""> Difference</thdifference<>				(0) OT	HER		0.00	100%	0.00									
Link Unit Unit Unit Press to press to			(K) ł	KITCH				0.00	100%	0.00	-								
EL. BOHEDULE Z. PHASE A PHASE C Image of the second state of the					П	JIAL		0.00	0%	0.00						PANEL TOTALS			
PHASE B	IEL	SCHEDULE Z.												PH	ASE A	0.000 KVA	0	.0	AM
PHASE C 0.00 KVA 0.0 AVA DESCRIPTION C PM N C RC PHASE C C PHA N C C DESCRIPTION LOAD														PH	ASE B	0.000 KVA	0	.0	AM
DESCRIPTION														PH	ASE C	0.000 KVA	0	.0	AM
PANEL 2L (PART OF ALTERNATE #3) DESCRIPTION c PH N G C8 PHASE c C8 PHASE C8 C8 <thc8< th=""> <thc8< th=""> C8 C8<td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thc8<></thc8<>																			
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RECEPT - C03 44* 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 <th12< th=""> 12 12</th12<>		DESCRIPTION	с	РН	N	G	СВ		PHASE B	E C	СВ	РН	N	G	с	DESCRIPTION	LOAD KVA	LOAD TYPE	CH
RECEPT - COS, CO4A, CO5A,	t	RECEPT - CT0	3/4"	12	12	12	20	1.260			20	12	12	12	3/4"	WATER COOLER (NOTE 2)	0.900	0	2
Image: Product Cost Cost Cost Cost Cost Cost Cost Cos		RECEPT - C05, CT1, CT2, CT3	3/4"	12	12	12	20		1.080		20	12	12	12	3/4"	RECEPT - HALL (NOTE 2)	0.360	R	4
RECEPT - 006A 344" 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 </td <td>1</td> <td>RECEPT - C05, C05A, C05A.1, C05C</td> <td>3/4"</td> <td>12</td> <td>12</td> <td>12</td> <td>20</td> <td></td> <td></td> <td>1.800</td> <td>20</td> <td>12</td> <td>12</td> <td>12</td> <td>3/4"</td> <td>ICE MACHINE (NOTE 2)</td> <td>0.900</td> <td>0</td> <td>6</td>	1	RECEPT - C05, C05A, C05A.1, C05C	3/4"	12	12	12	20			1.800	20	12	12	12	3/4"	ICE MACHINE (NOTE 2)	0.900	0	6
RECEPT - 056A 344' 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 <th12< th=""> 12 1000</th12<>		RECEPT - C05B	3/4"	12	12	12	20	1.160			20	12	12	12	3/4"	LTS - CONFERENCE ROOM (NOTE 2)	0.620	L	8
MICROWAYE Out-SC UC-SC		RECEPT - C05A	3/4"	12	12	12	20		1.062		20	12	12	12	3/4"	FCU-1C, FCU-2C, EF (NOTE 2)	0.702	Н	10
EWC - C06 (NOTE 1) 344 112 112 12 12 12 12 12 344 PIRE SUPPRESSION (NOTE 2) 0.400 O O R LITS - C05 344 10 10 10 10 10 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 14 14 12 12 12 12 14 14 14 12 12 12 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14		MICROWAVE - C05A	3/4"	12	12	12	20			1.650	20	12	12	12	3/4"	UC-5C, UC-6C (NOTE 2)	0.450	Н	12
L1S-COS 344 10 10 10 20 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 14 14 14 12 12 12 12 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14		EWC - C05 (NOTE 1)	3/4"	12	12	12	20	1.300			20	12	12	12	3/4"	FIRE SUPPRESSION (NOTE 2)	0.400	0	14
C15 C056, C056, C056, C07, C1 24 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10		LTS - C05	3/4"	10	10	10	20		1.292	1.0.10	20	12	12	12	3/4"	RECEPT - OFFICE (NOTE 2)	0.720	R	16
NEPRIZERA DA* CODA 38/4 12 12 12 12 20 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 138/0 K 2 COPIER 3/4" 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 14 12 12 12 12 12 12 12 12 12 14 14 16 0 0 0 12 12 12 14 12 14		LTS - C05A, C05B, C05C, C05E, C11, C12	3/4"	10	10	10	20	1.020		1.346	20	12	12	12	3/4"		0.550	L	18
ALTERNATE #3 - FANS EF1 AND EF2 34* 12 12 12 15 1000 1476 15 10 NA 10 34* HOOD EXHAUST FAN (NOTE 2) 1000 K 2 PARKING GATE 1* 8 8 10 20 2.460 0.660 20 12 12 12 34* 3-000R REFRIGERATOR (NOTE 2) 0.660 0.660 20 12 12 12 34* 3-000R REFRIGERATOR (NOTE 2) 0.660 0.660 0 1000 K 2 0.660 0.660 20 12 12 12 34* COMPUTER - LEFT SIDE (NOTE 2) 0.660 0.660 0 0 0 0 0 0 0 0.600 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		REFRIGERATOR - C05A	3/4	12	12	12	20	1.920	1 440		20	12	12	12	3/4	RECEPT - OFFICE (NOTE 2)	1 080	к к	20
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PARKING GATE 1" 8 8 10 20 24 20 12 12 12 12 34" 3-DOOR REFRIGERATOR (NOTE 2) 0.960 K 2 SPARE 0 20 0.960 20 12 12 12 12 12 12 12 12 13" COMPUTER - LEFT SIDE (NOTE 2) 0.960 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td></td> <td>COPIER</td> <td>3/4"</td> <td>12</td> <td>12</td> <td>12</td> <td>20</td> <td>2.280</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.080</td> <td>K</td> <td>26</td>		COPIER	3/4"	12	12	12	20	2.280									1.080	K	26
SPARE 20 0.960 20 12 12 12 12 14 COMPUTER -RIGHTS SIDE (NOTE 2) 0.960 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		PARKING GATE	1"	8	8	10	20		2.460		20	12	12	12	3/4"	3-DOOR REFRIGERATOR (NOTE 2)	0.960	К	28
SPARE 20 0.960 0.720 20 12 12 12 14 COMPUTER - RIGHTS SIDE (NOTE 2) 0.960 0 1 SPARE 20 0.720 0.720 0.720 12 12 12 14 RECEPT - LEFT WALL (NOTE 2) 0.720 R 3 SPARE 20 0.720 0.720 0.720 12 12 12 14 RECEPT - LEFT WALL (NOTE 2) 0.720 R 3 SPARE 20 0.720 0.720 720 12 12 12 14 RECEPT - RIGHT WALL (NOTE 2) 0.720 R 3 EXISTING ACHEAT PUMP (NOTE 2) 11/4" 3 NA 6 6 6.240 20 12 12 14 RECEPT - RIGHT WALL (NOTE 2) 0.720 R 3 SPARE 0 0.000 0.000 20 12 12 14 RECEPT - RIGHT WALL (NOTE 2) 0.720 R 3 SPARE 0 0.000 20 12 12 12 14 RECEPT - RIGHT WALL (NOTE 2) 0.720 R 3 <td></td> <td>SPARE</td> <td></td> <td></td> <td></td> <td></td> <td>20</td> <td></td> <td></td> <td>0.960</td> <td>20</td> <td>12</td> <td>12</td> <td>12</td> <td>3/4"</td> <td>COMPUTER - LEFT SIDE (NOTE 2)</td> <td>0.960</td> <td>0</td> <td>30</td>		SPARE					20			0.960	20	12	12	12	3/4"	COMPUTER - LEFT SIDE (NOTE 2)	0.960	0	30
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SPARE Image:		EXISTING AC/HEAT PUMP (NOTE 2)	1 1/4"	3	N/A	6	80		6.240		20					SPARE		0	40
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S FINAGE 4 WIRE (K) RECEPTACLES 7.20 100% 7.20 225 A BUS (M) MOTOR 0.00 100% 0.00 100% 0.00 SE LABEL (H) HVAC 14.03 100% 14.03 1 1 (D) OTHER 10.12 100% 4.20 100% 4.20 00% 0.00 FORAGE CLOSET C05C (K) KITCHEN EQUIP 4.20 100% 4.20 100% 38.09 102% 38.72 FORAGE CLOSET C05C (K) KITCHEN EQUIP 4.20 100% 38.09 102% 38.72 PROVIDE DOOR WITH LOCK AND HINGED TRIM. PROVIDE COPPER BUSS BARS AND BOLT ON BREAKERS. CIRCUIT BREAKER. FORAGE CLOSET C05C (K) KITCHEN EQUIP 4.20 100% 38.72 CIRCUIT BREAKER. FORAGE CLOSET C05C (K) KUA 81.3 AI MOVED FROM UNASSIGNED PANEL TO THIS PANEL. FORAGE CLOSE KVA 81.3 AI				L			C		ED		D					FED FROM: EXISTING MDP			_
SE LABEL (H) HVAC 14.03 100% 14.03 (L) LIGHTING 2.54 125% 3.17 (O) OTHER 10.12 100% 10.12 (O) OTHER 10.12 100% 4.20 TOTAL 38.09 102% 38.72 PROVIDE DOOR WITH LOCK AND HINGED TRIM. PROVIDE COPPER BUSS BARS AND BOLT ON BREAKERS. PROVIDE DOOR WITH LOCK AND HINGED TRIM. PROVIDE COPPER BUSS BARS AND BOLT ON BREAKERS. CIRCUIT BREAKER. TOTAL 38.09 102% 38.72		3 PHASE 4 WIRE 225 A BUS	(R)	RECI	=PTAC M) MC)TOR		0.00	100%	7.20 0.00						NEMA: 1			_
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	CI	RCUIT BREAKER.	()		ΤC	DTAL		38.09	102%	38.72				PH	ASE A	PANEL TOTALS 9.760 KVA	81	.3	AM

