

ABBREVIATIONS	
ABBREV.	DEFINITION
AMPS	AMPERE, AMPERAGE
AC	ADVANCE OF ALL REQUIRED SHUTDOWNS ELECTRICAL
EC	ABOVE COUNTER
A/C	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CURRENT
AL	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
ATSC	AUTOMATIC TRANSFER SWITCH CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO/VISUAL
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BFC	BELOW FINISHED CEILING
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
CU	COPPER
DD	DIMMING OR DIMMER
DDC	DIGITAL CONTROLS
DB	DISTRIBUTION BOARD
DC	DIRECT CURRENT
DL	DAY-LIGHTING
DISC	DISCONNECT SWITCH
ECB	ENCLOSED CIRCUIT BREAKER
EWC	ELECTRIC WATER COOLER
EX	EXISTING
FUT	FUTURE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FDR	FEEDER
GAA	GENERATOR ALARM ANNUNCIATOR
GAP	GENERATOR ALARM PANEL
GEN	GENERATOR
GEQ	GROUND ELECTRODE CONDUCTOR
GFI	GROUND FAULT INTERRUPTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT EQUIPMENT PROTECTION
GFP	GROUND FAULT PROTECTION
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HH	HAND HOLE
HOA	HAND-OFF AUTOMATIC
HP	HORSEPOWER
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IG	ISOLATED GROUND
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT AMPS
KW	KILOWATT
KWH	KILOWATT HOURS
LC	LIGHTING CONTRACTOR
LSIG	LOUD SPEAKER
	LONG TIME, SHORT TIME, INSTANTANEOUS
	AND GROUND FAULT PROTECTION
	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MIN	MINIMUM
MH	MAN HOLE
MLO	MAIN LUGS ONLY
MTS	MANUAL TRANSFER SWITCH
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
	NEUTRAL
N or NEUT	NATIONAL FIRE PROTECTION ASSOCIATION
NFP	NOT IN CONTRACT
NO	NORMALLY OPEN
OH	OVER HEAD
P	POLE
PA	PUBLIC ADDRESS
PB	PULL BOX
PC	PHOTOCELL
PH	PHASE POTENTIAL
PT	POTENTIAL TRANSFORMER
RC	RECEPTACLE CONTACTOR
RSC	RIGID STEEL CONDUIT
SEC	SECURITY
SPD	SURGE PROTECTIVE DEVICE
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TC	TIME CLOCK
TEMP	TEMPERARY
TGB	TECHNOLOGY GROUND BAR
TGMB	TECHNOLOGY MAIN GROUND BAR
TTS	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP.	TYPICAL
UC	UNDER COUNTER
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UL	UNDERWRITERS' LABORATORIES
UNON	UNLESS OTHERWISE NOTED
	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS, VOLTAGE
VFD	VARIABLE FREQUENCY DRIVE
WG	WIRE GUARD
WP	WEATHERPROOF
XFER	TRANSFER
XFMR	TRANSFORMER

DEMOLITION GENERAL NOTES:	
A.	NOTIFY THE OWNER, IN WRITING, AT LEAST 7 DAYS IN ADVANCE OF ALL REQUIRED SHUTDOWNS ELECTRICAL UTILITIES. UPON WRITTEN RECEIPT OF APPROVAL FROM THE OWNER, SHUTDOWNS SHALL BE PERFORMED AS DIRECTED BY THE OWNER AND SHALL BE CONDUCTED AT NO ADDITIONAL CONTRACT COST. AT THE COMPLETION OF EACH SHUT DOWN, ALL SERVICES SHALL BE RESTORED SO THAT NORMAL OPERATION OF ALL UTILITIES CAN RESUME.
B.	WHEN WORKING IN AND AROUND THE EXISTING BUILDING, EXTREME CARE SHALL BE EXERCISED IN REGARDS TO PROTECTION OF THE EXISTING STRUCTURE, MECHANICAL AND ELECTRICAL SERVICES WHICH WILL REMAIN. REPAIR, REPLACE OR RESTORE TO THE SATISFACTION OF THE OWNER/ARCHITECT/ENGINEER ALL EXISTING WORK DAMAGED IN THE PERFORMANCE OF DEMOLITION AND/OR NEW WORK.
C.	ALL EXISTING WIRING, EQUIPMENT, CONDUITS AND MATERIALS NOT REQUIRED FOR RE-USE OR RE-INSTALLATION (SHOWN OR OTHERWISE) SHALL BE REMOVED. ALL EXISTING MATERIALS AND EQUIPMENT WHICH ARE REMOVED AND DESIRED BY THE OWNER, OR ARE INDICATED TO REMAIN AS THE PROPERTY OF THE OWNER, SHALL BE DELIVERED TO THE OWNER ON THE PREMISES BY THE CONTRACTOR WHERE DIRECTED BY THE ARCHITECT. ALL OTHER MATERIALS AND EQUIPMENT WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY THE CONTRACTOR FROM THE PREMISES.
D.	EXISTING CONDITIONS (PRESENCE AND LOCATION OF PANELBOARDS, LIGHTING FIXTURES, RECEPTABLES, EQUIPMENT, MATERIALS AND CIRCUITING) INDICATED ARE BASED ON INFORMATION OBTAINED FROM AVAILABLE RECORD DRAWINGS AND FIELD SURVEYS AND ARE NOT WARRANTED TO BE COMPLETE OR CORRECT. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL CONDUITS, EQUIPMENT AND MATERIALS IN THE FIELD PRIOR TO STARTING ALL WORK.
E.	EXISTING EQUIPMENT SIZES NOTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND ARE NOT WARRANTED TO BE CORRECT. CONTRACTOR SHALL VERIFY ALL SIZES IN THE FIELD IF EQUIPMENT IS IN PROJECT SCOPE.
F.	WHEN EXISTING MECHANICAL AND ELECTRICAL WORK IS REMOVED, ALL CONDUITS, WIRING AND MATERIALS SHALL BE REMOVED TO A POINT BELOW FINISHED FLOORS OR BEHIND FINISHED WALLS AND CAPPED, SUCH POINTS SHALL BE FAR ENOUGH BEHIND FINISHED SURFACES TO ALLOW FOR THE INSTALLATION OF THE NORMAL THICKNESS OF FINISHED MATERIAL.
G.	EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT, CONDUIT, WIRING, DEVICES, AND MATERIALS AFFECTED BY DEMOLITION OR NEW WORK INSTALLATION AND REQUIRED TO REMAIN IN SERVICE SHALL BE REINSTALLED OR SUPPORTED AS REQUIRED IN ACCORDANCE WITH NEW WORK SPECIFICATIONS. ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE OWNER.
H.	IN GENERAL, ON DEMOLITION DRAWINGS, ALL EQUIPMENT AND MATERIALS SHOWN "LIGHT" ARE EXISTING TO REMAIN AND ALL EQUIPMENT AND MATERIALS SHOWN AS "HEAVY AND DASHED" ARE EXISTING TO BE DEMOLISHED.
I.	ENSURE THAT ALL ELECTRICAL WORK IS DONE DE-ENERGIZED. SPECIFICALLY WHERE ELECTRICAL EQUIPMENT IS OPENED EXPOSING LIVE PARTS, BREAKERS ARE REMOVED OR INSTALLED OR WHERE ELECTRICAL CONNECTIONS ARE MODIFIED. ALL POWER AT THE PANEL OR ENCLOSURE SHALL BE DE-ENERGIZED AT ITS SOURCE, PRIOR TO WORK BEING DONE.
J.	ALL TESTING, TROUBLESHOOTING AND VERIFICATION OF DEENERGIZATION IS TO BE DONE IN ACCORDANCE WITH NFPA 70E INCLUDING ESTABLISHING, ISOLATING IF REQUIRED, SHOCK PROTECTIVE AND ARC FLASH PROTECTIVE APPROACH BOUNDARIES AND WEARING PERSONAL PROTECTIVE EQUIPMENT APPROPRIATE FOR THE HAZARD.
K.	PRIOR TO THE REMOVAL OF A CIRCUIT FROM A PANELBOARD, THE CONTRACTOR SHALL VERIFY THAT NO EXISTING LOADS REMAIN ON THAT CIRCUIT. IF UNEXPECTED LOADS REMAIN ON THE CIRCUIT, NOTIFY EOR FOR DIRECTIONS TO PROCEED. ONCE CIRCUITS HAVE BEEN VERIFIED TO BE UNDER NO LOAD, BREAKERS IN THE CORRESPONDING PANELBOARD SHALL BE FLIPPED TO THE "OFF" POSITION AND MARKED AS SPARE AND READY FOR FUTURE WORK. ALL CONDUIT AND WIRING SHALL BE REMOVED BACK TO SOURCE.
L.	UPDATE PANEL SCHEDULES TO REFLECT NEW AND CHANGED LOAD. ALL PANEL SCHEDULES SHALL BE COMPUTER GENERATED.
M.	EXISTING FIRE ALARM SYSTEM SHALL BE MAINTAINED AND OPERABLE DURING DEMOLITION. CONTRACTOR SHALL TEMP EXISTING DEVICES TO ALLOW DEMOLITION OF EXISTING CONDUIT AND WIRING.

GENERAL NOTES	
1.	THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE THESE DRAWINGS
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.
3.	ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE SUSPENDED CEILING SYSTEM. REFER TO THE SPECIFICATIONS FOR MORE DETAILED INFORMATION.
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.
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 BUILDING CONSTRUCTION.
6.	ALL FUSES, DISCONNECT SWITCHES, AND BREAKER SIZES SHOWN FOR MECHANICAL/PLUMBING/FIRE PROTECTION SHALL BE FIELD VERIFIED. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR THE PROPERNESS OF THE WORK. NOTE: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL DISCONNECTS AND LINE SIDE CONDUIT/WIRING. LINE SIDE CONDUITING AND FINAL CONNECTIONS SHALL BE BY PLUMBING, MECHANICAL OR FIRE PROTECTION CONTRACTOR AS APPLICABLE.
7.	ALL WORK AND MATERIAL SHALL BE PROVIDED IN ACCORDANCE WITH STATE, LOCAL AND NATIONAL CODES AND ORDINANCES.
8.	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.
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 DIFFERENCES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
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 ENGINEER. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
11.	ALL JUNCTION BOXES AND CONDUIT RUNS (WITH OR WITHOUT WIRES) SHALL BE COLOR CODED WITH PAINT, IN ACCORDANCE WITH SPECIFICATION 260553.
12.	THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE COORDINATED WITH THE ARCHITECT AND OWNER PRIOR TO INSTALLATION. FOR USE WITH THE ACTUAL EQUIPMENT, CASEWORK AND MILLWORK TO BE FURNISHED.
13.	ALL WIRE AND CONDUIT SIZES ARE BASED ON 75°C THHN OR THWN WIRE UNLESS OTHERWISE NOTED.
14.	THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE UTILITY POWER COMPANY THE WORK REQUIRED FOR CONNECTION TO THE UTILITY'S NEW TRANSFORMER METERING, ETC.
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 SWITCH IS APPLICABLE.
16.	THE LOCATION OF ALL WALL MOUNTED DEVICES, INCLUDING MOUNTING HEIGHTS, SHALL BE FIELD VERIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION.
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 CONTROL SPACES WITH OTHER TRADES, SO AS NOT TO CONFLICT WITH OTHER EQUIPMENT.
21.	ALL EMERGENCY LIGHTING, EXT 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 SHORT 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 EXCEEDS 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 COMPLEMENTARY 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.

SYMBOL LEGEND (CONTINUED)	
SYMBOL	DESCRIPTION
	8"x4"x1/4" FIRE RETARDANT PLYWOOD BACK BOARD FOR MDF AND IDF CLOSETS
	NAPCO X255 SECURITY PANEL - USE RISER ON E00.055.
	CLASCOM CEILING MOUNTED MOTION DETECTOR
	MOTION SENSOR - WALL MOUNTED WA = WIDE ANGLE, LR = LONG RANGE
	NUMERICAL REMOTE SECURITY KEYPAD, LOCATE AT +60" AFF.
	EXTERNAL DOOR SECURITY CARD READER, +48" TO TOP OF BOX REFER TO DETAILS E00.075, 6 AND 7.
	SECURITY CARD ACCESS CONTROL SYSTEM
	VIDEO SURVEILLANCE CAMERA - "CAM #1" INDICATES CAMERA NUMBER. PROVIDE CAT-5 WIRING TO CAMERA LOCATION. REFER TO DETAILS E00.073 AND E00.058.
	DIGITAL TIME SWITCH/BACKLIT LED TIMER COUNTDOWN WITH ADJUSTMENTS FROM 5 MINUTES TO 12 HOURS.
	120/208 VOLT PANELBOARD WITH NEUTRAL AND GROUND BUS ACCESSORIES.
	277/480 VOLT PANELBOARD WITH NEUTRAL AND GROUND BUS ACCESSORIES.
	SURGE PROTECTIVE DEVICE
	DRY TYPE STEP DOWN TRANSFORMER 480-120/208V 3 PHASE
	DISCONNECT SWITCH, HEAVY DUTY.
	WIRING AND CONDUIT INSTALLED CONCEALED IN WALL SPACE OR ABOVE FINISHED CEILING
	UNSWITCHED WIRING AND CONDUIT LEG ON LIGHTING PLANS. UNDER FLOOR WIRING AND CONDUIT ON POWER PLANS. UNDER GROUND WIRING AND CONDUIT ON SITE PLANS.
	HOME RUN CIRCUIT TO PANELBOARD
	CONDUIT SLEEVES - SIZE AND QUANTITY AS SHOWN ON PLANS
	JUNCTION BOX WITH REMOVABLE COVER - SIZE PER NATIONAL ELECTRICAL CODE
ELECTRICAL SYSTEM AND EQUIPMENT	
METHOD OF COMPLIANCE:	
ENERGY CODE:	PREScriptive <input checked="" type="checkbox"/> PERFORMANCE <input type="checkbox"/>
ASHRAE 90.1:	PREScriptive <input type="checkbox"/> PERFORMANCE <input type="checkbox"/>
LIGHTING SCHEDULE	
Lamp type required in future - See Fixture Schedule. Number of lamps in future - See Fixture Schedule. Ballast type used in the future - See Specifications. Number of ballasts in future - See Specifications. Total wattage per fixture - Varies - See Fixture Schedule Total interior wattage specified versus allowed: 16,831 watts versus 34,163 watts (whole building) Total exterior wattage specified versus allowed: 569 watts versus 1920 watts	
ADDITIONAL PREScriptive COMPLIANCE	
<input checked="" type="checkbox"/> 406.2 More Efficient HVAC Performance <input checked="" type="checkbox"/> 406.3 Reduced Lighting Power Density <input checked="" type="checkbox"/> 406.4 Enhanced Lighting Controls <input checked="" type="checkbox"/> 406.5 On-Site Supply of Renewable Energy <input checked="" type="checkbox"/> 406.6 Provision of Dedicated Outdoor HVAC Air System <input checked="" type="checkbox"/> 406.7 High Efficiency Service Water Heating	
DESIGNER STATEMENT:	
On 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.	

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SHEET INDEX - ELECTRICAL			
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E202	FIRST FLOOR LIGHTING PLAN	1	02/20/2024
E203	EQUIPMENT PLATFORM LIGHTING PLAN		
E301	GROUND FLOOR TECHNOLOGY/SECURITY PLAN	1	02/20/2024
E302	FIRST FLOOR TECHNOLOGY/SECURITY PLAN	1	02/20/2024
E401	GROUND FLOOR FIRE ALARM PLAN	1	02/20/2024
E402	FIRST FLOOR FIRE ALARM PLAN	1	02/20/2024
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E504	EXISTING BUILDING FIRE ALARM RISER		
E505	DETAILS	1	02/20/2024
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E803	PANEL SCHEDULES	1	02/20/2024

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	LED LIGHT FIXTURE - LETTER DESIGNATES TYPE
	NIGHT LIGHT LED LIGHT FIXTURE - LETTER DESIGNATES TYPE
	LED LIGHT FIXTURE - LETTER DESIGNATES TYPE
	LED EMERGENCY LIGHT FIXTURE - LETTER DESIGNATES TYPE
	LINEAR LIGHTING FIXTURE
	BATTERY POWERED EMERGENCY FIXTURE - WALL MOUNTED
	EXIT LIGHT - ARROW INDICATES DIRECTION & SHADING INDICATES ILLUMINATED FACE(S).
	SINGLE POLE TOGGLE SWITCH - +48" ABOVE FINISHED FLOOR TO TOP OF OUTLET, UNLESS OTHERWISE NOTED.
	3-WAY SWITCH - INSTALL AT +48" ABOVE FINISHED FLOOR TO TOP OF OUTLET
	4-WAY SWITCH - INSTALL AT +48" ABOVE FINISHED FLOOR TO TOP OF OUTLET
	SINGLE POLE KEY SWITCH - INSTALL AT +48" ABOVE FINISHED FLOOR TO TOP OF OUTLET, UNLESS OTHERWISE NOTED.
	MECHANICALLY HELD LIGHTING CONTACTOR. # INDICATES CONTACTOR NUMBER. PROVIDE NUMBER OF CONTACTS AS REQUIRED. PROVIDE # CONTACTS AS NEEDED OR EQUAL BY SIEMENS OR Eaton
	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.
	CORNER 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.
	PASSIVE INFRARED WALL SWITCH SENSOR - COVERAGE: MAJOR MOTION 35X30, MINOR MOTION 20X15. TIME DELAYS OF NO LESS THAN 15 MINUTES. MOUNT AT +48" TO TOP OF OUTLET BOX. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.
	120/277 VOLT LINE VOLTAGE @ 10V (1500VA) SLIDE DIMMER SWITCH WITH ON/OFF - COMPATIBLE WITH LED FIXTURE - MOUNT AT +48" TO TOP OF OUTLET BOX
	120 VOLT, 20 AMP, MOTOR RATED TOGGLE DISCONNECT SWITCH WITH JUNCTION BOX
	DUPLEX TAMPER RESISTANT GROUNDING TYPE RECEPTACLE - AT +10" ABOVE FINISHED FLOOR TO BOTTOM OF OUTLET, UNON
	TWO DUPLEX TAMPER RESISTANT GROUNDING TYPE RECEPTABLES IN A DOUBLE GANG ENCLOSURE MOUNT AT +10" AFF TO BOTTOM OF OUTLET. PROVIDE WITH STAINLESS STEEL COVER UNON
	TAMPER RESISTANT GFCI DUPLEX RECEPTACLE -GROUND FAULT INTERRUPTION TYPE INSTALL AT +10" ABOVE FINISHED FLOOR TO BOTTOM OF OUTLET, UNON
	TAMPER RESISTANT DUPLEX GROUNDING TYPE RECEPTACLE WITH WEATHERPROOF, "IN-USE" COVER MOUNTED AT +10" ABOVE GRADE TO BOTTOM OF OUTLET BOX, UNLESS OTHERWISE NOTED, WITH HEAVY DUTY GRAY "IN-USE COVER (RAYMAY OR EQUAL)
	DATA OUTLET - REFER TO E03 SERIES PLANS AND DATA SCHEDULES FOR QUANTITY OF CAT-6 DROPS AT EACH OUTLET.
	120 VOLT, 20 AMP FACELESS GFI DEVICE
	WIRELESS ACCESS POINT, WITH CAT-6A DATA DROP. REFER TO PLANS FOR LOCATIONS.
	EXISTING BOGEN MULTI-TOM 200W INTERCOM HEAD-END UNIT
	WALL MOUNTED LOUDSPEAKER. EXACT MOUNTING HEIGHT FOR OUTDOOR SPEAKERS TO BE COORDINATED WITH ARCHITECT. WP/WEA THERPROOF. MOUNT ON INTERIOR AT +88" AFF.
	RECESSED CEILING SPEAKER, WITH BACK BOX AND ACCESSORIES - MATCH EXISTING BOGEN SPEAKERS
	HVAC CONTROL PANEL PROVIDED BY HVAC CONTRACTOR
	FIRE ALARM SYSTEM AMPLIFIER CABINET
	FIRE ALARM SYSTEM NOTIFICATION APPLIANCE BOOSTER CABINET
	VARIABLE FREQUENCY DRIVE FURNISHED BY HVAC CONTROLS CONTRACTOR AND INSTALLED/WIRED BY THE ELECTRICAL CONTRACTOR
	IDF DATA RACK PROVIDED BY CONTRACTOR
	IDF ROOM GROUND BAR, REFER TO SPECIFICATIONS AND REFERS TO DETAILS E5020 AND E5050
	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 E00.083.
	LIGHTING OVERRIDE SWITCH - PROVIDED AND WIRED BY MECHANICAL CONTROLS CONTRACTOR
	EXTERNAL DOOR SECURITY CARD READER. LOCATE 48" TO TOP OF BOX.
	SECURITY DOOR CONTACT
	REQUEST TO EXIT MOTION
	SIMPLEX RECEPTACLE FOR ELEVATOR SUMP PUMP
	FIRE ALARM SIGNAL/SPEAKER - AUDIO/VISUAL, WALL MOUNTED AT +84" ABOVE FINISHED FLOOR. "WP" INDICATES WEATHERPROOF # CD INDICATES CANDELA RATING OF STROBE.
	FIRE ALARM SIGNAL - VISUAL, WALL MOUNTED AT +84" ABOVE FINISHED FLOOR. "WP" INDICATES WEATHERPROOF # CD INDICATES CANDELA RATING OF STROBE.
	CEILING MOUNTED FIRE ALARM STROBE - # CD INDICATES CANDELA RATINGS OF STROBE
	MANUAL FIRE ALARM PULL STATION - INSTALL AT +48" ABOVE FINISHED FLOOR TO TOP OF BOX (DOUBLE ACTION). PROVIDE LEXAN STOPPER II COVERS ON ALL PULL STATIONS.
	FIRE ALARM SPEAKER - AUDIO ONLY, WALL MOUNTED AT +84" ABOVE FINISHED FLOOR. "WP" INDICATES WEATHERPROOF
	PHOTOELECTRIC TYPE SMOKE DETECTOR - CEILING MOUNTED
	DUCT TYPE PHOTOELECTRIC SMOKE DETECTOR INSTALLED IN MECHANICAL DUCTWORK, FURNISHED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR WITH FINAL CONNECTION BY ELECTRICAL CONTRACTOR.
	RECESSED CEILING MOUNTED FIRE ALARM SPEAKER
	SPRINKLER BELL
	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.
	MAGNETIC DOOR HOLDER, WALL MOUNTED/FLOOR MOUNTED, TO BE COORDINATED WITH GENERAL CONTRACTOR/ARCHITECT.
	HEAT DETECTOR - FIXED TEMPERATURE (200°F @ KILN ROOM) (135°F @ MECHANICAL ROOMS)
	CEILING MOUNTED FIRE ALARM SPEAKER/STROBE - # CD INDICATES CANDELA RATING OF STROBE
	ADDRESSABLE VOICE-EVAC FIRE ALARM PANEL, EQUALS BY: NOTIFIER OR APPROVED EQUAL