



ADDENDUM No.: 2

Project Name and No.: MU Project #CP221943, BSA Project #14110010
University Physicians Medical Building – 3rd Floor Renovation
At the University of Missouri Columbia, MO

Date Issued: 28 April 2023

Description: REVISED DRAWINGS FOR DOCUMENT CLARIFICATION

Incorporate modifications as follows:

ARCHITECTURAL

1. SHEET G200 – CODE SUMMARY & LIFE SAFETY PLAN

TITLE BLOCK:

- a. Revised issue date of ADDENDUM #1 to 04/25/2023.

2. SHEET A000 – GENERAL NOTES AND ABBREVIATIONS

GENERAL DEMOLITION NOTES:

- a. Added note to remove existing flooring and base in all areas scheduled to receive new flooring.

ELECTRICAL

1. SHEET E000 – ELECTRICAL SYMBOLS & ABBREVIATIONS:

TELECOMMUNICATIONS:

- a. Updated note to refer to the low voltage responsibility matrix as shown on E500 for scope responsibilities.

NURSE CALL SYSTEMS:

- a. Updated note to refer to the low voltage responsibility matrix as shown on E500 for scope responsibilities.

ACCESS CONTROL SYSTEMS:

- a. Updated note to refer to the low voltage responsibility matrix as shown on E500 for scope responsibilities.

This clarification and/or change is intended to supplement and/or modify the contract documents; however, the information presented is presumed to be relatively minor in nature, not requiring a modification of the contract amount or time of completion. Contractor must advise if this assessment is in error in order that the specified procedure for modifying the contract can be implemented. If a response is necessary, please respond within two weeks.



Attachments: SHEETS G200, A000, AND E000

Issued By: Enku Assefa / BSA LifeStructures

Copies:

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PROJECT INFORMATION:	
NAME:	UPMB 3RD FLOOR RENOVATION
ADDRESS:	1020 HITT ST COLUMBIA, MO 65212
PROJECT DESCRIPTION:	INTERIOR RENOVATION OF THE 3RD FLOOR OF UPMB, EXISTING FLOOR IS 19,000 SF FULL RENOVATION OF APPROXIMATELY 6,419 SF EXTENSIVE MODIFICATIONS OF APPROXIMATELY 601 SF. APPROXIMATELY 37% OF THE FLOOR WILL BE RENOVATED.
OWNER:	UNIVERSITY OF MISSOURI - UNIVERSITY PHYSICIAN/MEDICAL BUILDING FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI
DESIGN PROFESSIONAL:	
ARCHITECT:	BSA LIFESTRUCTURES
ADDRESS:	12945 OLIVE BLVD, SUITE 227 CREVE COEUR, MO 63141
CONTACT:	ENKU ASSEFA 913-748-8813, EXT 6017 EASSEFA@BSALIFESTRUCTURES.COM
CODE INFORMATION:	
2021	INTERNATIONAL BUILDING CODE
2021	INTERNATIONAL EXISTING BUILDING CODE (FOR LEVEL 1
2021	LEVEL 2 ALTERATIONS ONLY WITH PREAPPROVAL FROM AHJ)
2021	INTERNATIONAL PLUMBING CODE
2021	INTERNATIONAL MECHANICAL CODE
2021	INTERNATIONAL FIRE CODE
2017	ICC A117.1 ACCESSIBLE MAD USABLE BUILDINGS AND FACILITIES
2020	NATIONAL ELECTRIC CODE/ NFPA 70
2019	NFPA 110 STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS
2012	NFPA 101 LIFE SAFETY CODE
2012	NFPA 99 STANDARD FOR HEALTH CARE FACILITIES
2018	NFPA 90A INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS
2017	NFPA 75 STANDARD FOR THE FIRE PROTECTION OF INFORMATION TECHNOLOGY EQUIPMENT
2019	NFPA 72 NATIONAL FIRE ALARM CODE
2019	NFPA 318 STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING, AND OTHER HOT WORK
2019	NFPA 13 INSTALLATION OF FIRE SPRINKLER SYSTEMS
2019	ASHRAE 62.1 VENTILATION OF ACCEPTABLE INDOOR AIR QUALITY (VENTILATION RATES FOR SPACES NOT FOUND IN ASHRAE STANDARD 170 OR THE HIGHER OF THE TWO AIR CHANGE RATES PERFORMED IN BOTH)
2019	ASHRAE 90.1 ENERGY STANDARD FOR BUILDINGS
2017	ASHRAE 170 VENTILATION OF HEALTH CARE FACILITIES
2016	ASME A17.1 - SAFETY CODE FOR ELEVATORS AND ESCALATORS
2018	AMERICANS WITH DISABILITIES ACT - STANDARDS FOR ACCESSIBLE DESIGN
2018	FACILITIES GUIDELINES INSTITUTE
BUILDING DATA:	
OCCUPANCY:	B
CONSTRUCTION TYPE:	I-B
ALLOWABLE AREA:	UNLIMITED (19,000 SF EXISTING)
ALLOWABLE HEIGHT:	12 STORIES(5A STORIES EXISTING)
ALLOWABLE STORY:	180 (152 ft EXISTING)
COMMON PATH OF EGRESS TRAVEL:	
B OCCUPANCY	100 FT
EXIT ACCESS TRAVEL DISTANCE:	
B OCCUPANCY	300 FT
EXIT CAPACITY:	
B OCCUPANCY	STAIRWAYS = 38 INCHES OTHER = 25 INCHES
CORRIDORS:	
MINIMUM WIDTH:	44"
DEAD END:	50'
FIRE EXTINGUISHERS:	
MAXIMUM TRAVEL DISTANCE:	75'
LIFE-SAFETY FEATURES:	
SPRINKLER SYSTEM THROUGH-OUT	
SMOKE DETECTORS & FIRE ALARM SYSTEM	
EMERGENCY LIGHTS- INVERTER BACKUP	
EXIT LIGHTS- INVERTER BACKUP	
FIRE RESISTANCE RATING REQUIREMENTS:	
STRUCTURAL FRAME:	2 HOURS - EXISTING
FLOOR CONSTRUCTION:	2 HOURS - EXISTING
ROOF CONSTRUCTION:	2 HOURS - EXISTING
SHIRT ENCLOSURE:	2 HOURS - EXISTING
STAIR CONSTRUCTION:	2 HOURS - EXISTING
DEFERRED SUBMITTALS REQUIRED:	
FIRE ALARM & FIRE SPRINKLER	
BUILDING RISK CATEGORY: II	
LIFE-SAFETY SYMBOLS LEGEND	
	COLUMN LINE
	ROOM NAME DESIGNATION ROOM NUMBER DESIGNATION
	PLAN NOTE DESIGNATION
	EXIT SYMBOL
	FIRE EXTINGUISHER
	FIRE EXTINGUISHER CABINET

KEYNOTE LEGEND

REFER TO A000 FOR GENERAL NOTES

SPECIAL INSPECTIONS					
CHECK IF REQUIRED	INSPECTION TASK	CONTINUOUS	PERIODIC	STANDARD	NOTES/COMMENTS
☒	PENETRATION FIRESTOPS	☐	☒	ASTM E2174	TESTING TO BE CONDUCTED BY AN APPROVED AGENCY
☒	INSTALLATION OF MECHANICAL AND ELECTRICAL EQUIPMENT, INCLUDING DUCT WORK, PIPING SYSTEMS, AND THEIR STRUCTURAL SUPPORTS, WHERE AUTOMATIC FIRE SPRINKLER SYSTEMS ARE INSTALLED.	☐	☒	IBC 2021 1705.13.6	

MARK	DATE	DESCRIPTION
2	04/28/2023	ADDENDUM #2
1	04/25/2023	ADDENDUM #1

I hereby certify these drawings and/or specifications have been prepared by me, or under my supervision. I further certify that to the best of my knowledge these drawings and/or specifications are as required by and in compliance with the Building Codes of the University of Missouri.

RYAN J.
KING
NUMBER
A-200806225
ARCHITECT

DAVID L. KIRBY
04/28/2023
Ryan J. King - Architect
MOR A-200806225

CODE SUMMARY & LIFE SAFETY PLAN

- THIS SHEET SHALL BE PRINTED IN COLOR -

DATE	03 APRIL 2023
BALS PROJECT NO.	14110010

G200

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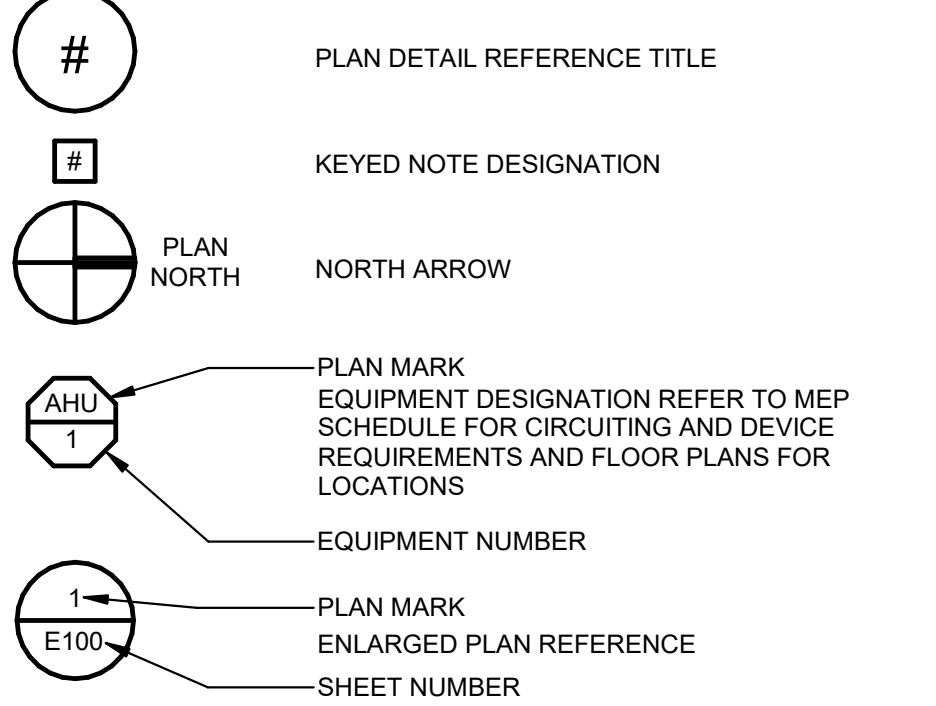
ELECTRICAL GENERAL NOTES

- MAKE ALL INSTALLATIONS IN ACCORDANCE WITH THE (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) AND/OR ARCHITECTURAL BARRIERS ACT (ABA).
- MOUNTING HEIGHTS INDICATED WITHIN PLANS AND SCHEDULES ARE DIMENSIONED TO THE CENTER LINE OF THE DEVICE, EQUIPMENT, LUMINAIRE, ETC. UNLESS OTHERWISE NOTED.
- COORDINATE EXACT EQUIPMENT LOCATIONS WITH OTHER TRADES. EQUIPMENT LOCATIONS SHOWN ON ELECTRICAL PLANS ARE DIAGRAMMATICAL ONLY AND MIGHT NOT BE EXACT.
- CIRCUIT IDENTIFICATION NUMBERS BESIDE ELECTRICAL DEVICES AND CONNECTION POINTS ON PLANS CORRESPOND TO AN OVERCURRENT DEVICE IN THE DESIGNATED PANELBOARD. NOTE ALL CIRCUIT NUMBER CHANGES MADE IN THE FIELD AT EACH ELECTRICAL DEVICE AND CONNECTION POINT. ALSO CORRECT THE DIRECTORIES AND DEVICE MARKINGS AT PANELBOARDS, SWITCHBOARDS AND SWITCHGEAR TO ACCURATELY REFLECT THE AS-BUILT CONDITIONS.
- INSTALL EMERGENCY AND EXIT LUMINAIRE WIRING IN A SEPARATE RACEWAY FROM THAT OF ANY NORMAL POWER DEVICE.
- CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILINGS, AND IN FLOOR SLABS, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT ROUTED IN MECHANICAL ROOMS, ELECTRICAL ROOMS, AND STORAGE ROOMS WITHOUT CEILINGS MAY BE ROUTED EXPOSED.
- COORDINATE VERTICAL CONDUIT ROUTING TO WALL MOUNTED DEVICES TO ENSURE DEVICES LOCATED WITHIN AN 18-INCH HORIZONTAL DIMENSION WILL BE CENTER-ALIGNED VERTICALLY.
- CONCEAL ELECTRICAL CONNECTIONS FOR ELECTRIC WATER COOLERS (EWC) BEHIND WATER COOLER ACCESS PLATE OR DIRECTLY BELOW AND CENTERED ON WALL.
- FIELD COORDINATE ALL ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT MOUNTING LOCATIONS TO AVOID ENCRoACHMENT OF OPERATION AND ACCESS TO EQUIPMENT FROM OTHER TRADES. COORDINATE THE APPROPRIATE MOUNTING LOCATION WITH THE AFFECTED DISCIPLINES WHEN EQUIPMENT IS SPECIFIED TO BE MOUNTED ONTO THE SURFACE OF ANOTHER DISCIPLINE'S EQUIPMENT.
- REPAIR ALL OPENINGS MADE IN EXISTING WALLS, PARTITIONS, ETC TO ACCOMMODATE WORK OF THIS DISCIPLINE TO MATCH THE SURROUNDING CONDITIONS, USING WORKERS QUALIFIED IN THE APPROPRIATE TRADE. APPROPRIATELY GROUT OR SEAL ALL CONDUITS THROUGH WALLS.
- ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS MUST HAVE BEEN TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS.
- INSTALL A PERMANENT DIRECTORY ACCORDING TO THE NATIONAL ELECTRICAL CODE, ARTICLE 230 AT EACH SERVICE ENTRANCE AND POWER SOURCE.
- PERFORM ALL WELDING ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS. FURNISH CERTIFICATES QUALIFYING EACH WELDER TO THE ARCHITECT OR ENGINEER PRIOR TO START OF WORK. THE ARCHITECT OR ENGINEER RESERVES THE RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT NO ADDITIONAL EXPENSE, OF ANY WELDERS ASSIGNED TO THE JOB.
- REPLACE OR REINSTALL ALL PORTIONS OF THE BUILDING (CEILING TILES, WALLS, ETC) REMOVED TO ACCOMMODATE THE INSTALLATION OF ANY ELECTRICAL DEVICE, EQUIPMENT, ETC., USING WORKERS QUALIFIED IN THE APPROPRIATE TRADE.
- COORDINATE LUMINAIRE LOCATIONS SUCH THAT LUMINAIRES RUN PARALLEL TO THE FACE OF THE EQUIPMENT AND OVER AISLES BETWEEN EQUIPMENT IN ALL MECHANICAL AND ELECTRICAL EQUIPMENT AREAS. INSTALL AT PROPER LOCATIONS AND HEIGHTS TO PROPERLY ILLUMINATE ALL GAGES, PANELS, ELECTRICAL EQUIPMENT, CONTROLS, VALVES, ETC. CHAIN HANGING, STEM HANGING, CHANNEL HANGING, ETC. ARE ACCEPTABLE METHODS.

GENERAL DEMOLITION NOTES

- REMOVE, CAP AND RELOCATE EQUIPMENT, OUTLETS, CONDUIT, WIRE, ETC., AS SHOWN AND SPECIFIED ON DRAWINGS, AND AS MAY BECOME NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS. VISIBLY EXAMINE ALL EXISTING WALLS DESIGNATED FOR REMOVAL TO DETERMINE THE CONDUIT AND THE WIRING THAT WILL REQUIRE CAPPING AND REMOVAL. WHETHER OR NOT SUCH CONDITIONS ARE INDICATED ON THE DRAWINGS, FAILURE TO VISIT THE SITE AND TO TAKE ALL EXISTING CONDITIONS INTO ACCOUNT WILL NOT ALLOW FOR CHANGES TO THE SCOPE OF WORK.
- MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING FIXTURES, EQUIPMENT, OUTLETS, ETC., TO REMAIN IN USE WHETHER NOTED ON THE PLANS OR NOT. FIELD VERIFY EXISTING ITEMS TO REMAIN IN USE, RECONNECT RACEWAYS AND WIRING FOR EXISTING CIRCUITS WHICH MUST BE RE-ROUTED OR WHICH ARE PARTIALLY ABANDONED TO POWER THE REMAINING OUTLETS ON THE CIRCUIT.
- REMOVE ALL UNUSED WIRING AND CABLES BACK TO THEIR SOURCE. REMOVE ALL UNUSED CONDUIT THAT IS EXPOSED OR ABOVE ACCESSIBLE CEILINGS WHICH IS AFFECTED BY OR IS IN THE AREA OF THE DEMOLITION WORK. COORDINATE WITH MU PROJECT MANAGER ON ITEMS TO BE REMOVED.
- THE INTENTION OF THE ELECTRICAL DEMOLITION DRAWINGS IS TO DISCONNECT AND REMOVE ALL ELECTRICAL WORK MADE VOID BY THE SCOPE OF THE CONSTRUCTION AND ALTERATION. FIELD VERIFY EXACT MATERIAL QUANTITIES REQUIRED TO BE REMOVED.
- DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, DEVICES, ASSOCIATED RACEWAYS, SUPPORTING HARDWARE, AND WIRING, WHICH HAVE BEEN MADE OBSOLETE BY THE WORK OR IS SHOWN DASHED ON THE ELECTRICAL DEMOLITION DRAWINGS, UNLESS OTHERWISE NOTED. ALTHOUGH AN ATTEMPT HAS BEEN MADE TO INDICATE ALL OF THIS WORK, TOTAL ACCURACY IS NOT GUARANTEED. VISIBLY EXAMINE ALL AREAS AND WALLS AND CEILINGS SCHEDULED FOR REMOVAL TO DETERMINE EXISTING ELECTRICAL ITEMS TO REMAIN.
- WHERE ELECTRICAL EQUIPMENT, CONDUIT, BOXES, AND SUPPORTING HARDWARE ARE REMOVED, PATCH AND FINISH THE SURFACE AS REQUIRED TO MATCH THE EXISTING, USING WORKERS QUALIFIED IN THE APPROPRIATE TRADE.
- WHERE BURIED CONDUITS EXTENDING OUT OF A CONCRETE SLAB BECOME ABANDONED, CUT AND GRIND THE CONDUITS OFF FLUSH WITH TOP OF SLAB AND PLUG WITH NON-SHRINK WATERPROOF GROUT FILL.
- TAKE ALL REMOVED MATERIALS FROM THE PROJECT SITE, EXCEPT FOR THOSE TO BE RELOCATED, STORED, OR TURNED OVER TO THE OWNER.
- ACCEPTANCE OF CONTRACT MEANS INSTALLER ACCEPTS EXISTING CONDITIONS.
- COORDINATE ALL DEMOLITION WORK WITH ALL OTHER TRADES.
- PROVIDE A BLANK COVER OVER THE OUTLET WHERE A FLUSH DEVICE IS BEING REMOVED FROM FLOORS AND WALLS THAT ARE TO REMAIN. MATCH THE COLOR AND MATERIAL TO THE EXISTING REMAINING COVERS IN THE ROOM OR SPACE.
- LEGALLY DISPOSE OF HAZARDOUS MATERIALS AND BALLASTS OR OTHER EQUIPMENT CONTAINING PCBs AND LAMPS CONTAINING MERCURY. COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS. REFER TO FRONT END DOCUMENTS.
- UPON COMPLETION OF CONSTRUCTION, PROVIDE RED-LINE PANEL SCHEDULE DEPICTING THE ACTUAL CIRCUITS MODIFIED OR ADDED AS PART OF THIS PROJECT TO UMHC. PROVIDE NEW TYPED PANELBOARD DIRECTORY CARDS WITHIN EACH PANEL ENCLOSURE FOR ALL PANELS MODIFIED AS PART OF THIS PROJECT. FOR NEW LOADS, DESCRIBE THE SPECIFIC LOAD TYPE AND LOCATION IN THE CIRCUIT DESCRIPTION FIELD IN THE DIRECTORY CARDS GIVEN TO UMHC. FOR EXISTING TO REMAIN LOADS, TRANSPOSE THE ACTUAL CIRCUIT DESCRIPTION INFORMATION PROVIDED ON THE EXISTING PANELBOARD DIRECTORY CARD. DO NOT USE "EXISTING LOAD" VERBIAGE IN THE CIRCUIT DESCRIPTION, WHERE ALL LOADS ARE DEMOLISHED FROM A CIRCUIT, CONTRACTOR TO MOVE CIRCUIT BREAKER HANDLE TO THE OFF POSITION AND INDICATE POLE POSITION AS "SPARE" IN THE NEW PANELBOARD DIRECTORY CARD.

DRAWING REFERENCES



ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
C	CONDUIT
E.C.	ELECTRICAL CONTRACTOR
ER	EXISTING RELOCATED
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
G.C.	GENERAL CONTRACTOR
GND	GROUND
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED

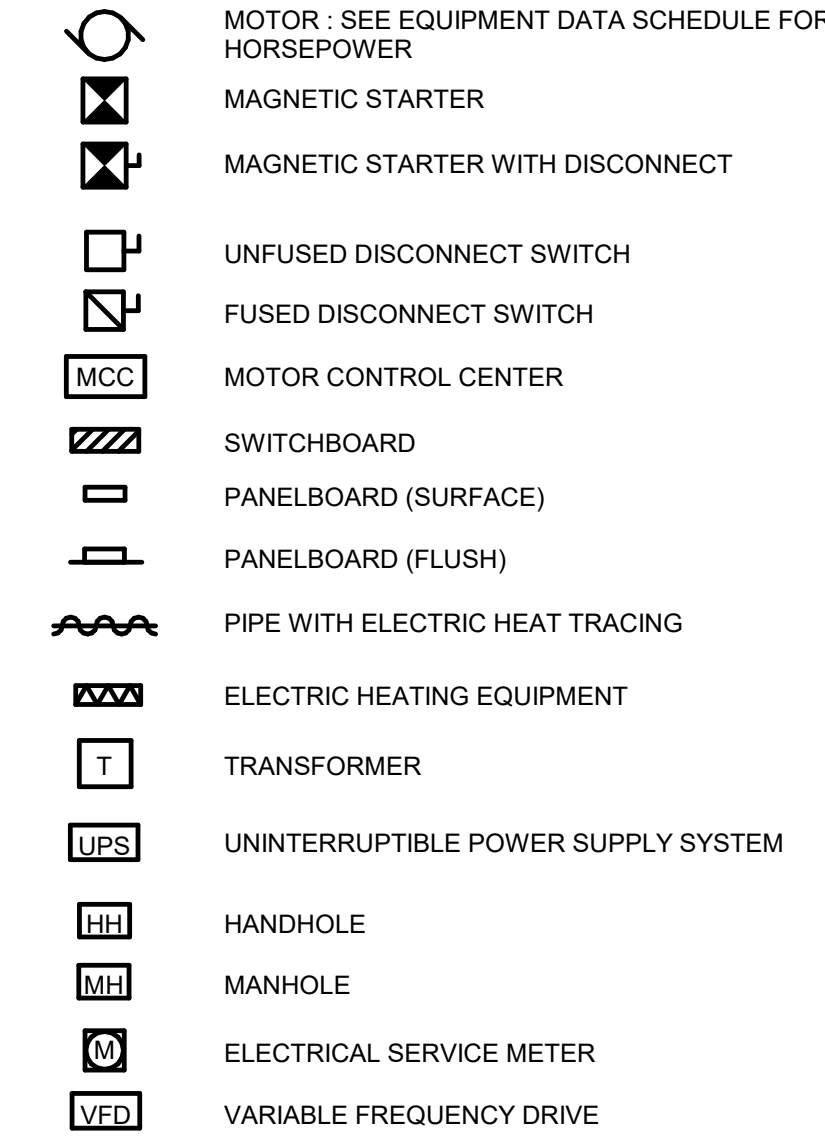
LINE TYPE LEGEND

---	EXISTING TO REMAIN OR NEW WORK BY OTHERS (LIGHT, SOLID LINE)
---	NEW WORK BY THIS CONTRACTOR (DARK, SOLID LINE)
- - - -	EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK, DASHED LINE, DEMOLITION PLANS)
---	NEW WORK BY THIS CONTRACTOR TO BE INSTALLED UNDERGROUND, OR BELOW FLOOR (DARK, LONG DASHED LINE)

WIRING PLANS

- PROVIDE WIRING REQUIRED BY THE CIRCUITING AND SWITCHING REQUIREMENTS FOR THE PARTICULAR CIRCUITS INVOLVED. TYPICAL 120V HOMERUNS SHALL CONSIST OF #12 AWG CONDUCTORS IN 3/4" CONDUIT MINIMUM UNLESS INDICATED OTHERWISE. NO SHARED NEUTRALS SHALL BE ALLOWED. A MAXIMUM OF NINE CURRENT-CARRYING CONDUCTORS ARE ALLOWED IN A RACEWAY. NEUTRAL CONDUCTORS ARE ALSO CONSIDERED CURRENT-CARRYING CONDUCTORS. FOR CIRCUITS EXCEEDING 75'-0" IN LENGTH, PROVIDE THE NEXT LARGER WIRE SIZE FOR THE CIRCUIT AMPACITY.
 - WHERE NUMBER OF CURRENT-CARRYING CONDUCTORS IN A RACEWAY EXCEEDS THREE, THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED AS SHOWN IN THE ADJUSTMENT FACTOR TABLE IN THE NATIONAL ELECTRIC CODE. LOAD DIVERSITY FACTORS SHALL NOT BE USED IN SIZING CONDUCTORS. NEUTRAL CONDUCTORS SHALL BE COUNTED AS CURRENT-CARRYING CONDUCTORS.
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- CONDUIT CAPPED FOR FUTURE
- CABLE TRAY : TYPE AS NOTED
- BUSWAY
- HOMERUN TO PANEL OR DESTINATION NOTED
- HACHURES INDICATE NUMBER OF CONDUCTORS IN CONDUIT
NOTE: LONG HACHURE - NEUTRAL CONDUCTOR
- ISOLATED GROUND
- GROUND
- NEUTRAL
- PHASE CONDUCTOR

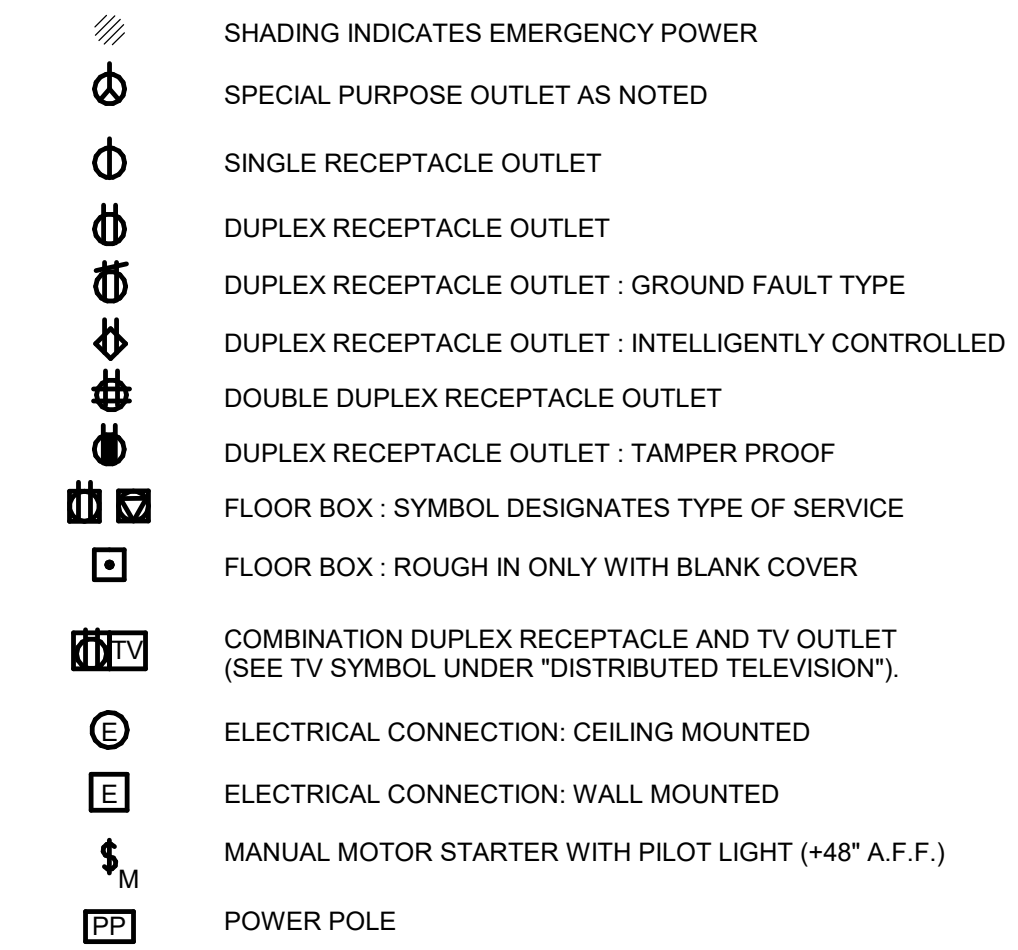
POWER EQUIPMENT



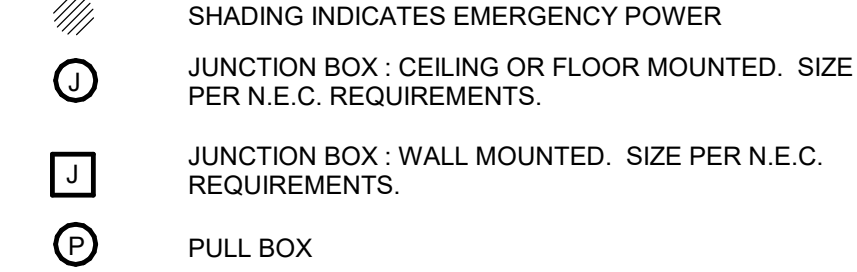
WIRING DEVICES, RECEPTACLES - MISC.

- TYPICAL MOUNTING HEIGHT: +18" A.F.F.
- SUBSCRIPT LEGEND:
 - A: ABOVE COUNTER: MOUNT +6" ABOVE BACKSPASH OR WORK SURFACE
 - C: CEILING: MOUNT FLUSH WITHIN CEILING TILE OR GYPSUM BOARD
 - CR: COMPUTER RECEPTACLE: PROVIDE LABEL TO READ: 'COMPUTER'
 - S: SWITCHED: PROVIDE ONE OUTLET CONTROLLED BY TOGGLE SWITCH
 - U: UNDER COUNTER: WITHIN CABINETRY OR CASEWORK
 - FF: FURNITURE FEED: COORDINATE WITH FURNITURE INSTALLER FOR ALL CONNECTION REQUIREMENTS.

A SLASH BETWEEN TWO SUBSCRIPTS INDICATES MULTIPLE PARAMETERS (EXAMPLE: A/3 DENOTES ABOVE COUNTER MOUNTING, CIRCUIT 3).

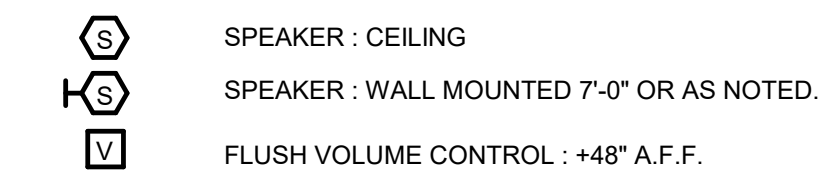


JUNCTION AND PULL BOXES



PUBLIC ADDRESS SYSTEMS

RESPONSIBILITIES: REFER TO RESPONSIBILITY MATRIX ON SHEET E500.

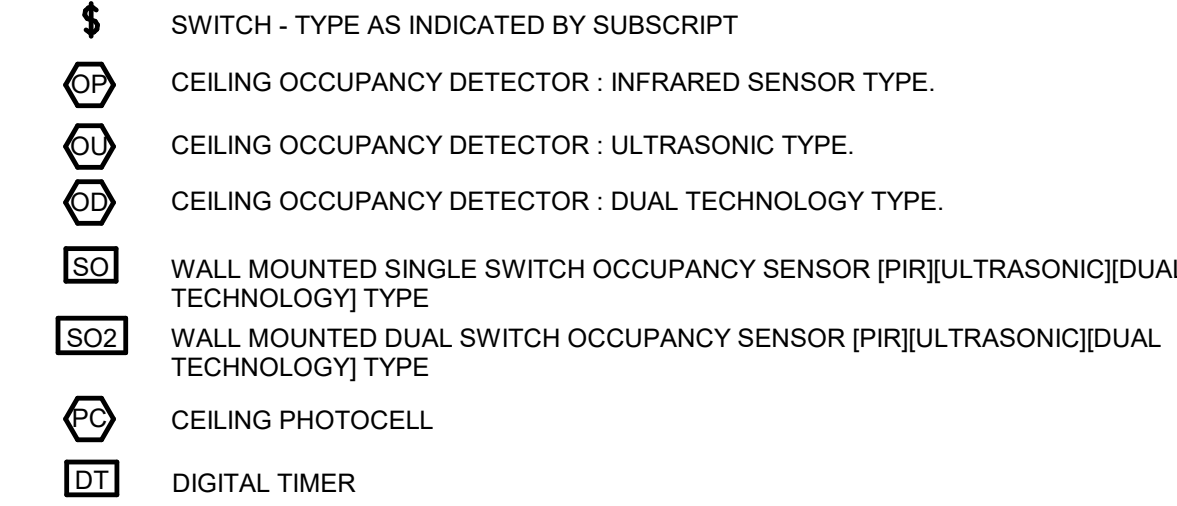


LUMINAIRES

- REFER TO LUMINAIRE SCHEDULE FOR LUMINAIRE DESCRIPTIONS.
- "NL" INDICATES UNSWITCHED LUMINAIRE
- "SE" DESIGNATION INDICATES LUMINAIRE IS SWITCHED DURING NORMAL OPERATION, BUT UPON LOSS OF POWER, LUMINAIRE REVERTS TO 100% OUTPUT VIA BATTERY BALLAST. REGARDLESS OF THE ON/OFF STATUS OF THE LOCAL LIGHTING CONTROL DEVICE, EXTEND AN UNSWITCHED PORTION OF THE LIGHTING CIRCUIT SERVING AREA, AHEAD OF ALL LIGHTING CONTACTORS, TO THIS DEVICE.
- SHADING LEGEND (APPLICABLE TO LUMINAIRE SYMBOLS):
 - NO SHADING: NORMAL POWER
 - HALF-SHADING: LIFE SAFETY OR BATTERY BACKUP
 - FULL-SHADING: CRITICAL POWER
- LUMINAIRE DESIGNATION KEY:
 - A: LUMINAIRE TYPE
 - 1: CIRCUIT NUMBER
 - a: CONTROLLING SWITCH

SWITCHES AND LIGHTING CONTROL DEVICES

- TYPICAL MOUNTING HEIGHT: 48" A.F.F. TO CENTER U.O.N.
- WHERE TWO OR MORE SWITCHES ARE SHOWN ADJACENT TO EACH OTHER, PROVIDE A COMMON GANG BOX WITH A SINGLE, SEAMLESS FACEPLATE.
- SUBSCRIPT LEGEND:
 - 2: TWO-POLE SWITCH
 - 3: THREE-WAY SWITCH
 - 4: FOUR-WAY SWITCH
 - K: KEY SWITCH
 - D: DIMMER - COORDINATE REQUIREMENTS FOR LUMINAIRE COMPATIBILITY
 - P: PILOT LIGHT SWITCH
 - C: MOMENTARY CONTACT SWITCH
 - LV: LOW VOLTAGE CONTROL MASTER STATION
 - L: LOW VOLTAGE LOCAL SINGLE/PUSH BUTTON STATION
- REFER TO SPECIFICATION SECTION 26 09 23 FOR ADDITIONAL INFORMATION.



TELECOMMUNICATIONS

- RESPONSIBILITIES: REFER TO RESPONSIBILITY MATRIX ON SHEET E500.
- TYPICAL MOUNTING HEIGHT: +18" A.F.F. UNLESS OTHERWISE NOTED. PROVIDE OR 4 11/16" SQUARE BOX WITH SINGLE GANG PLASTER RING (VERTICAL).
 - ALL TELECOMMUNICATION CONDUIT SHALL BE A MINIMUM OF 1-1/4" IN DIAMETER STUBBED TO ACCESSIBLE CORRIDOR CEILING SPACE, UNLESS OTHERWISE NOTED.
 - ALL TELECOMMUNICATION CABLE SHALL BE OWNER PROVIDED WITH A PLENUM RATED JACKET. ALL CABLES RUN EXPOSED IN STRUCTURE ABOVE OR ABOVE CEILINGS SHALL BE SUPPORTED BY J-HOOKS AT EVERY 5'-0" TO NEAREST CABLE TRAYS. PROVIDE INSULATED BUSHINGS ON ALL RACEWAYS.
 - ALL DATA CABLES SHALL BE CAT 6A, YELLOW IN COLOR, AND TERMINATED BY OWNER.
 - REFER TO LOW VOLTAGE RESPONSIBILITY MATRIX ON E500 FOR MORE INFORMATION.
 - SUBSCRIPT LEGEND:
 - A: ABOVE COUNTER - MOUNT +6" ABOVE BACKSPASH OR WORK SURFACE WITH BOX ORIENTED HORIZONTALLY.
 - C: CEILING MOUNTED - MOUNT FLUSH WITHIN CEILING TILE OR GYPSUM CEILING
 - W: WALL PHONE - MOUNT +48" A.F.F. OR 6" ABOVE WORK SURFACE. PROVIDE MOUNTING LUGS FOR TELEPHONE
 - WAP: WIRELESS ACCESS POINT DATA OUTLET - INSTALL ONE (1) OWNER FURNISHED CAT 6A CABLE AND 10'-0" OF SLACK CABLE COILED ABOVE ACCESSIBLE CEILING FROM TELECOM ROOM. WIRELESS ACCESS POINTS ARE OWNER FURNISHED, OWNER INSTALLED.
 - #: QUANTITY OF OWNER FURNISHED CAT 6A CABLES TO BE INSTALLED BY CONTRACTOR. WHEN NOT INDICATED, THREE (3) CABLES SHALL BE ASSUMED. CABLES SHALL ORIGINATE FROM TELECOMMUNICATION.

A SLASH BETWEEN TWO SUBSCRIPTS INDICATES MULTIPLE PARAMETERS (EXAMPLE: A/3 DENOTES ABOVE COUNTER MOUNTING, 3 CABLES.)

TELECOMMUNICATION OUTLET: PROVIDE CONDUIT FOR WIRING STUBBED TO THE ACCESSIBLE CEILING SPACE WITH BUSHING. PROVIDE 4 POSITION FACEPLATE AND A TOTAL OF (3) ACTIVE JACKS UNLESS OTHERWISE NOTED.

EXISTING TELECOMMUNICATION OUTLET TO REMAIN

NURSE CALL SYSTEMS

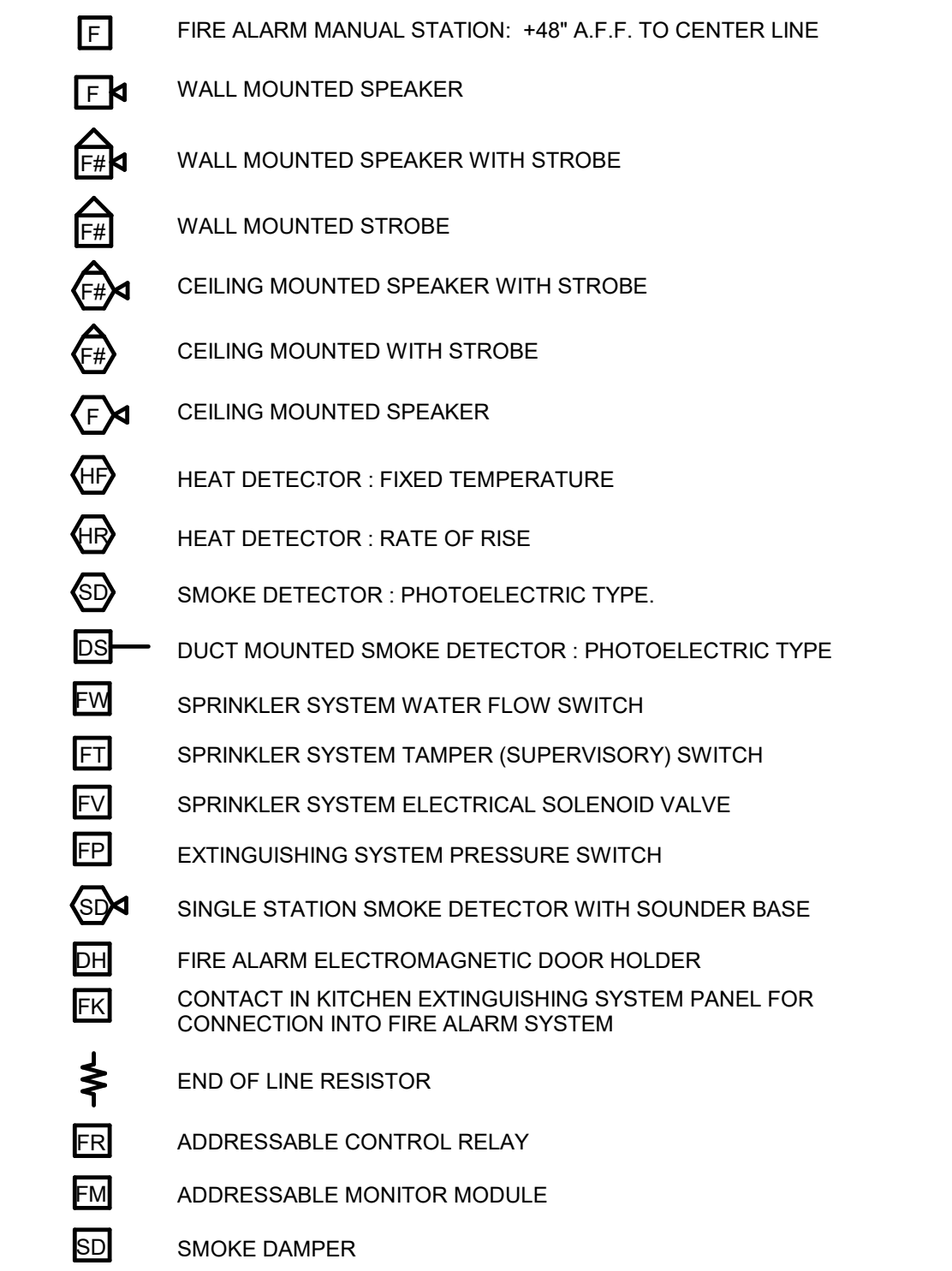
- RESPONSIBILITIES: REFER TO RESPONSIBILITY MATRIX ON SHEET E500.
- REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS AND LOCATIONS. WHERE ELEVATIONS DO NOT SPECIFY, MOUNT DEVICES AS INDICATED.
 - PROVIDE RECESSED ROUGH-IN COMPONENTS CONSISTING OF 4" x 4" x 3.5" DOUBLE GANG BOX WITH SINGLE GANG MUD RING AND ONE (1) 1" CONDUIT STUBBED TO ABOVE CEILING SPACE WITH BUSHING. PROVIDE J-HOOK SUPPORTS ABOVE CEILING BETWEEN DEVICE, CORRIDOR FIRE RATED PATHWAY, AND CABLE TRAY.
 - REFER TO LOW VOLTAGE RESPONSIBILITY MATRIX ON SHEET E500 FOR MORE INFORMATION.
- EMERGENCY PULL CORD STATION: +48" A.F.F. AT TOILETS, +78" AT SHOWER STATIONS. CORD LENGTH SHALL EXTEND TO +6" A.F.F.
- EMERGENCY PUSHBUTTON STATION : +48" A.F.F. U.O.N.
- WALL MOUNTED DOME LIGHT: MOUNT ABOVE DOOR JAMB, CENTERED BETWEEN TOP OF DOOR FRAME AND CEILING
- NURSE CALL MASTER STATION : 3 GANG, NON-GANGABLE, 3.5" DEEP BOX

ACCESS CONTROL SYSTEMS

- RESPONSIBILITIES: REFER TO RESPONSIBILITY MATRIX ON SHEET E500.
- CARD READER : WALL MOUNT AT +48" A.F.F.
- REQUEST TO EXIT, TOUCHLESS ACTUATOR: WALL MOUNT AT +48" A.F.F.
- PUSHBUTTON : +48" A.F.F. OR AS NOTED

FIRE ALARM SYSTEMS

- REFER TO SPECIFICATIONS SECTION 283111 FOR ADDITIONAL INFORMATION PERTAINING TO THE FIRE ALARM SYSTEM.
- SIGNALING LINE CIRCUITS SHALL BE ROUTED IN A CLASS B CONFIGURATION.
- NOTIFICATION APPLIANCE CIRCUITS SHALL BE ROUTED IN A CLASS B CONFIGURATION.
- FIRE ALARM CIRCUITS SHALL BE ROUTED IN CONDUIT WHERE INACCESSIBLE. WHERE ROUTED ABOVE ACCESSIBLE CEILINGS, FIRE ALARM CIRCUITS SHALL CONSIST OF PLENUM RATED CABLE SUPPORTED EVERY 4'-0" BETWEEN DEVICES.
- FOR VISUAL DEVICES, THE 'W' WITHIN THE SYMBOL CORRESPONDS TO THE CANDELA RATING OF THE DEVICE: 1=15cd, 3=30cd, 5=75cd, 7=110cd.
- WALL MOUNTED NOTIFICATION DEVICES SHALL BE MOUNTED WITH THE TOP OF THE DEVICE +80" A.F.F. OR 6" BELOW THE CEILING, WHICHEVER IS LOWER.



BSA

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12645 Olive Blvd, Suite 227
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ph 314.754.6306 fx 314.754.4452

Architctural Registration Number - 2003010309



MEP ENGINEERING:
Introba Inc.
6 S Old Orchard Ave
St. Louis, MO 63119
ph 314.918.8383 www.introba.com
Missouri State Certificate of Authority #2023008136



LIGHTING ENGINEERING:
Timberlake Engineering
912 Old Highway 63 South
Columbia, MO 65201
ph 573.875.4365 ext 209 www.customenrg.com
Missouri State Certificate of Authority #000239



MU PROJECT NO. - CP221943
**UNIVERSITY PHYSICIANS
MEDICAL BUILDING - 3RD
FLOOR RENOVATION**

1020 Hitt St. Columbia, MO 65212

BID SET

MARK	DATE	DESCRIPTION
1	04/28/2023	ADDENDUM #2

I hereby certify these drawings and/or specifications have been prepared by me, or under my supervision. I further certify that to the best of my knowledge these drawings and/or specifications are as required by and in compliance with the Building Codes of the University of Missouri.



CHRISTOPHER ALAN PHILIPP
PE 022262

ELECTRICAL SYMBOLS & ABBREVIATIONS

DATE	03 APRIL, 2023
INTROBA PROJECT NO.	0011593

E000