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C. Ground in accordance with the NEC, as shown on drawings, and as specified.

3.02 INSTALLATION

- A. Install ground electrodes. Install additional rod electrodes as required to achieve specified resistance to ground.
- B. Provide grounding electrode conductor and connect to reinforcing steel in foundation footing. Bond steel together. Concrete-Encased Electrode.
- C. Provide bonding to meet requirements described in Quality Assurance.
- D. Provide isolated grounding conductor for circuits supplying equipment as shown on plans.
- E. Equipment Grounding Conductor: Provide separate, insulated conductor within each feeder and branch circuit raceway. Terminate each end on suitable lug, bus, or bushing.
- F. Provide #6 AWG bare copper to communication backboard(s), security, audio visual and communication racks, and cable tray.
- G. All ground rods, ground grids, building steel and otherwise normally inaccessible shall be connected utilizing exothermic welds.
- H. When making ground and ground bonding connections, apply a corrosion inhibitor to all contact surfaces. Use corrosion inhibitor appropriate for protecting a connection between the metals used.
- I. Special Grounding: For patient care area electrical power system grounding, conform with NEC and NFPA 99.
- J. In operating rooms and at intensive care and coronary care type beds, bond the gases and suction piping, at the outlets, directly to the room or patient ground bus.
- K. Bond the lightning protection system to the electrical grounding electrode system.

3.03 FIELD QUALITY CONTROL

- A. Provide test reports indicating overall resistance to ground and resistance of each electrode.
- SECTION 26 0529 - HANGERS AND SUPPORTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Conduit and equipment supports.
- B. Anchors and fasteners.

1.02 REFERENCES

- A. Install per NECA (National Electrical Contractors Association)
- B. Install per NFPA 70 – (National Electrical Code; National Fire Protection Association)

1.03 QUALITY ASSURANCE

- A. Conform to requirements of NFPA 70.
- B. Products: Listed and classified by Underwriters Laboratories, Inc. as suitable for the purpose specified and indicated.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Thomas & Betts Corporation.
- B. Threaded Rod Company.
- C. Erco.
- D. Threadco.
- E. Substitutions: See Section 26 0500 – Basic Electrical Requirements: Product Substitutions.

2.02 MATERIALS

- A. Hangers, Supports, Anchors, and Fasteners - General: Corrosion-resistant materials of size and type adequate to carry the loads of equipment and conduit, including weight of wire in conduit.
- B. Supports: Fabricated of structural steel or formed steel members; galvanized.
- C. Anchors and Fasteners:
1. Do not use powder-actuated anchors, spring clips, or beam clamps.
 2. Obtain permission from Architect before using powder-actuated anchors.
 3. Concrete Structural Elements: Use precast inserts, expansion anchors, powder-actuated anchors, or preset inserts.
 4. Steel Structural Elements: Use beam clamps, steel spring clips, steel ramset fasteners, or welded fasteners.
 5. Concrete Surfaces: Use self-drilling anchors or expansion anchors.
 6. Hollow Masonry, Plaster, and Gypsum Board Partitions: Use toggle bolts or hollow wall fasteners.
 7. Solid Masonry Walls: Use expansion anchors or preset inserts.
 8. Sheet Metal: Use sheet metal screws.
 9. Wood Elements: Use wood screws.
- D. Formed Steel Channel:
- E. Steel Spring Clips:

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install hangers and supports as required to adequately and securely support electrical system components, in a neat and workmanlike manner, as specified in NECA 1.
1. Do not fasten supports to pipes, ducts, mechanical equipment, or conduit.
 2. Do not drill or cut structural members.
 3. Obtain permission from Architect before drilling or cutting structural members.
- B. Rigidly weld support members or use hexagon-head bolts to present neat appearance with adequate strength and rigidity. Use spring lock washers under all nuts.
- C. Install surface-mounted cabinets and panelboards with minimum of four anchors.
- D. In wet and damp locations use steel channel supports to stand cabinets and panelboards 1 inch off wall.
- E. Use sheet metal channel to bridge studs above and below cabinets and panelboards recessed in hollow partitions.

SECTION 26 0533 - BOXES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Wall and ceiling outlet boxes.
- B. Floor boxes.
- C. Pull and junction boxes.

1.02 REFERENCES

- A. Install per NECA (National Electrical Contractors Association)
- B. Meet NEMA (National Electrical Manufacturers Association) standard requirements
- C. Install per NFPA 70 (National Electrical Code; National Fire Protection Association)

1.03 SUBMITTALS

- A. See Section 26 0500 - Basic Electrical Requirements - Submittal procedures.
- B. Product Data: Provide manufacturer's catalog information showing dimensions, colors, and configurations for floor boxes.
- C. Project Record Documents: Record actual locations and mounting heights of outlet, pull, and junction boxes on project record documents.

1.04 QUALITY ASSURANCE

- A. Conform to requirements of NFPA 70.
- B. Products: Provide products listed and classified by Underwriters Laboratories, Inc., as suitable for the purpose specified and indicated.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Appleton Electric.
- B. Arc-Co/Division of Arcade Technology
- C. Unity Manufacturing
- D. Raco.
- E. Thomas & Betts (Steel City)
- F. Hubbell
- G. Quazite
- H. Wiremold
- I. Substitutions: See Section 26 0500 – Basic Electrical Requirements: Product Substitutions.

2.02 OUTLET BOXES

- A. Sheet Metal Outlet Boxes: NEMA OS 1, galvanized steel.
1. Luminaire and Equipment Supporting Boxes: Rated for weight of equipment supported; include 1/2 inch male fixture studs where required.
 2. Concrete Ceiling Boxes: Concrete type.
- B. Nonmetallic Outlet Boxes: NEMA OS 2.
- C. Cast Boxes: NEMA FB 1, Type FD, aluminum. Provide gasketed cover by box manufacturer. Provide threaded hubs.
- D. Wall Plates for Finished Areas: As specified in Section 16140 (26 2726).

2.03 PULL AND JUNCTION BOXES

- A. Sheet Metal Boxes: NEMA OS 1, galvanized steel.
- B. Hinged Enclosures: As specified in Section 26 2716.
- C. Surface Mounted Cast Metal Box: NEMA 250, Type 4; flat-flanged, surface mounted junction box:
1. Material: Galvanized cast iron.
 2. Cover: Furnish with ground flange, neoprene gasket, and stainless steel cover screws.
- D. In-Ground Cast Metal Box: NEMA 250, Type 6, outside flanged, recessed cover box for flush mounting.
1. Material: Galvanized cast iron.
 2. Cover: Smooth cover with neoprene gasket and stainless steel cover screws.
 3. Cover Legend: "ELECTRIC"

- E. In-Ground Fiberglass Handholes: Die molded fiberglass
1. Cable Entrance: Pre-cut 4x4 inch cable entrance at center bottom of each side.
 2. Cover: weatherproof fiberglass, nonskid finish.
 3. Cover Legend: Refer to plans and details.
 4. Hardware: Stainless steel inserts and bolts

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify locations of floor boxes and outlets in offices and work areas prior to rough-in.

3.02 INSTALLATION

- A. Install boxes securely, in a neat and workmanlike manner, as specified in NECA 1.
- B. Install in locations as shown on Drawings, and as required for splices, taps, wire pulling, equipment connections, and as required by NFPA 70.
- C. Coordinate installation of outlet boxes for equipment connected under Section 26 2717.
- D. Set wall mounted boxes at elevations to accommodate mounting heights indicated.
- E. Electrical boxes are shown on Drawings in approximate locations unless dimensioned.
1. Adjust box locations up to 10 feet if required to accommodate intended purpose, obtain approval from Architect prior to installation.
- F. Orient boxes to accommodate wiring devices oriented as specified in Section 26 2726.
- G. Maintain headroom and present neat mechanical appearance.
- H. Install pull boxes and junction boxes above accessible ceilings and in unfinished areas only.
- I. Inaccessible Ceiling Areas: Install outlet and junction boxes no more than 6 inches from ceiling access panel or from removable recessed luminaire.
- J. Install boxes to preserve fire resistance rating of partitions and other elements, using materials and methods specified in Section 16010 – Fire Stopping.
- K. Coordinate mounting heights and locations of outlets mounted above counters, benches, and backslashes.
- L. Locate outlet boxes to allow luminaires positioned as shown on reflected ceiling plan and elevations.
- M. Align adjacent wall mounted outlet boxes for switches, thermostats, and similar devices.
- N. Use flush mounting outlet box in finished areas.
- O. Locate flush mounting box in masonry wall to require cutting of masonry unit corner only. Coordinate masonry cutting to achieve neat opening.
- P. Do not install flush mounting box back-to-back in walls; provide minimum 6 inches separation. Provide minimum 24 inches separation in acoustic rated walls.
- Q. Secure flush mounting box to interior wall and partition studs. Accurately position to allow for surface finish thickness.
- R. Use stamped steel bridges to fasten flush mounting outlet box between studs.
- S. Install flush mounting box without damaging wall insulation or reducing its effectiveness.
- T. Use adjustable steel channel fasteners for hung ceiling outlet box.
- U. Do not fasten boxes to ceiling support wires.
- V. Support boxes independently of conduit.
- W. Use gang box where more than one device is mounted together. Do not use sectional box.
- X. Use gang box with plaster ring for single device outlets.
- Y. Use cast outlet box in exterior locations exposed to the weather and wet locations.
- Z. Use cast floor boxes for installations in slab on grade; formed steel boxes are acceptable for other installations.
- AA. Set floor boxes level.
- AB. Handholes:
1. Do all excavation. Bottom of excavation shall be undisturbed earth. If earth is disturbed, backfill with sand and compact.
 2. Set per manufacturers recommendations.
 3. Backfill shall be compacted to 95% Procter density. Remove all excess material from site.
 4. Restore all disturbed surfaces to their original condition.

3.03 ADJUSTING

- A. Adjust floor boxes flush with finish flooring material.
- B. Adjust flush-mounting outlets to make front flush with finished wall material.
- C. Install knockout closures in unused box openings.
- D. Adjust handholes such that cover is 1/4" above grade.

3.04 CLEANING

- A. Clean interior of boxes to remove dust, debris, and other material.
- B. Clean exposed surfaces and restore finish.

SECTION 26 0534 -CONDUIT

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Conduit, fittings and conduit bodies.

1.02 REFERENCES

- A. Meet ANSI (American National Standard) standard requirements
- B. Install per NECA (National Electrical Contractors Association)
- C. Meet NEMA (National Electrical Manufacturers Association) standard requirements
- D. Install per NFPA 70 (National Electrical Code; National Fire Protection Association)

1.03 SUBMITTALS

- A. Project Record Documents: Accurately record actual routing of conduits larger than 1-1/4 inches.

1.04 QUALITY ASSURANCE

- A. Conform to requirements of NFPA 70.
- B. Products: Listed and classified by Underwriters Laboratories, Inc. as suitable for purpose specified and shown.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Accept conduit on site. Inspect for damage.
- B. Protect conduit from corrosion and entrance of debris by storing above grade. Provide appropriate covering.

PART 2 PRODUCTS

2.01 CONDUIT REQUIREMENTS

- A. Conduit Size: Comply with NFPA 70.
1. Minimum Size: 3/4 inch unless otherwise specified.
- B. Underground Installations:
1. More than Five Feet from Foundation Wall: Use thinwall non-metallic conduit.
 2. Within Five Feet from Foundation Wall: Use thickwall nonmetallic conduit.
 3. Under Slab on Grade: Use thinwall non-metallic conduit.
 - a. No conduit shall be allowed in slab, except panelboard feeders.
 - b. Rigid steel conduit shall be used when below a hazardous area.
 - c. Provide rigid factory elbows for all slab penetrations
 4. Roadway: Use thick wall non-metallic conduit.
 3. Outdoor Locations Above Grade: Use rigid steel conduit.
 2. In Slab: Use rigid steel conduit
 - E. Wet and Damp Locations: Use rigid steel conduit.
 - F. Dry Locations:
 1. Concealed: Use electrical metallic tubing.
 2. Exposed:
 - a. In unfinished spaces below 8'-0" A.F.F.: Use intermediate metal conduit.
 - b. In unfinished spaces above 8'-0" A.F.F.: Use electrical metallic tubing.
 - c. In all finished spaces use electrical metallic tubing unless noted on plan

2.02 METAL CONDUIT

- A. Manufacturers:
1. Allied Tube & Conduit
 2. Beck Manufacturing, Inc.
 3. Wheatland Tube Company
 4. Substitutions: See Section 26 0500 – Basic Electrical Requirements: Product Substitutions.
- B. Rigid Steel Conduit: ANSI C80.1.
- C. Rigid Aluminum Conduit: ANSI C80.5.

- D. Intermediate Metal Conduit (IMC): Rigid steel.
- E. Fittings and Conduit Bodies: NEMA FB 1; material to match conduit.

2.03 FLEXIBLE METAL CONDUIT

A. Manufacturers:

1. AFC Cable Systems, Inc
 2. Electri-Flex Company
 3. International Metal Hose
 4. Substitutions: See Section 26 0500 – Basic Electrical Requirements: Product Substitutions.
- B. Description: Interlocked steel construction
- C. Fitting: NEMA FB 1

2.04 LIQUIDTIGHT FLEXIBLE METAL CONDUIT

A. Manufacturers:

1. AFC Cable Systems, Inc
 2. Electri-Flex Company.
 3. International Metal Hose.
 4. Substitutions: See Section 26 0500 – Basic Electrical Requirements: Product Substitutions.
- B. Description: Interlocked steel construction with PVC jacket.
- C. Fittings: NEMA FB 1.

2.05 ELECTRICAL METALLIC TUBING (EMT)

A. Manufacturers:

1. Allied Tube & Conduit
 2. Beck Manufacturing, Inc
 3. Wheatland Tube Company
 4. Substitutions: See Section 26 0500 – Basic Electrical Requirements: Product Substitutions.
- B. Description: ANSI C80.3; galvanized tubing.
- C. Fittings and Conduit Bodies: NEMA FB 1; steel or malleable iron set screw type.
- 2.06 NONMETALLIC CONDUIT
- A. Manufacturers:
1. AFC Cable Systems, Inc
 2. Electri-Flex Company.
 3. International Metal Hose.
 4. Substitutions: See Section 26 0500 – Basic Electrical Requirements: Product Substitutions.
- B. Thin Wall Description: NEMA TC 2; Schedule 40 PVC.
- C. Thick Wall Description: NEMA TC2; Schedule 80 PVC
- D. Fittings and Conduit Bodies: NEMA TC 3.

2.07 NONMETALLIC TUBING

A. Manufacturers:

1. Beck Manufacturing, Inc
 2. Cantex, Inc.
 3. Lamson & Sessions (Carlon)
 4. Substitutions: See Section 26 0500 – Basic Electrical Requirements: Product Substitutions.
- B. Thin Wall Description: NEMA TC 2.
- C. Fittings and Conduit Bodies: NEMA TC 3.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that field measurements are as shown on drawings.
- B. Verify routing and termination locations of conduit prior to rough-in.
- C. Conduit routing is shown on drawings in approximate locations unless dimensioned. Route as required to complete wiring system.

3.02 INSTALLATION

- A. Install conduit securely, in a neat and workmanlike manner, as specified in NECA 1.
- B. Install steel conduit as specified in NECA 101.
- C. Install nonmetallic conduit in accordance with manufacturer's instructions.
- D. Arrange supports to prevent misalignment during wiring installation.
- E. Support conduit using coated steel or malleable iron straps, lay-in adjustable hangers, clevis hangers, and split hangers.
- F. Group related conduits; support using conduit rack. Construct rack using steel channel; provide space on each for 25 percent additional conduits.
- G. Fasten conduit supports to building structure and surfaces under provisions of Section 26 0529.
- H. Do not support conduit with wire or perforated pipe straps. Remove wire used for temporary supports.
- I. Do not attach conduit to ceiling support wires.
- J. Arrange conduit to maintain headroom and present neat appearance.
- K. Route exposed conduit parallel and perpendicular to walls.
- L. Route conduit installed above accessible ceilings parallel and perpendicular to walls.
- M. Route conduit under slab, where permitted, from point-to-point.
- N. Do not cross conduits in slab.
- O. Maintain adequate clearance between conduit and piping.
- P. Maintain 12 inch clearance between conduit and surfaces with temperatures exceeding 104 degrees F.
- Q. Cut conduit square using saw or pipecutter; de-burr cut ends.
- R. Bring conduit to shoulder of fittings; fasten securely.
- S. Join nonmetallic conduit using cement as recommended by manufacturer. Wipe nonmetallic conduit dry and clean before joining. Apply full even coat of cement to entire area inserted in fitting. Allow joint to cure for 20 minutes, minimum.
- T. Use conduit hubs to fasten conduit to sheet metal boxes in damp and wet locations.
- U. Install no more than equivalent of three 90 degree bends between boxes. Use conduit bodies to make sharp changes in direction, as around beams. Use factory elbows for bends in metal conduit larger than 2 inch size.
- V. Avoid moisture traps; provide junction box with drain fitting at low points in conduit system.
- W. Provide suitable fittings to accommodate expansion and deflection where conduit crosses control and expansion joints.
- X. Provide suitable pull string in each empty conduit except sleeves and nipples.
- Y. Use suitable caps to protect installed conduit against entrance of dirt and moisture.
- Z. Ground and bond conduit under provisions of Section 26 0526.
- AA. Identify conduit under provisions of Section 26 0553.
- AB. All conduit shall be concealed in finished areas unless otherwise noted.
- AC. Do not install horizontal runs of conduit in masonry walls.
- AD. Use rigid 90° bends in all underground conduit.

3.03 INTERFACE WITH OTHER PRODUCTS

- A. Install conduit to preserve fire resistance rating of partitions and other elements, using materials and methods as referenced in Section 16010.
- B. Install conduit to preserve vapor retarder and air infiltration barrier in exterior walls and floor penetrations.
- C. Route conduit through roof openings for piping and ductwork wherever possible. Where separate roofing penetration is required, coordinate location and installation method with roofing installation.

SECTION 26 0535 -SURFACE RACEWAYS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Surface nonmetal raceways.
- B. Surface metal raceways
- C. Fittings.
- D. Device Brackets and Plates.
- E. Cover Brackets and Plates.
- F. Multi-outlet assemblies.
- G. Wireways.
- H. Wall duct.

1.02 REFERENCES

- A. Install per NECA (National Electrical Contractors Association)
- B. Meet TIA/EIA (Commercial Building Standard for Telecommunications Pathways and Spaces) standard requirements
- C. Install per NFPA 70 (National Electrical Code; National Fire Protection Association)

1.03 SYSTEM DISCRIPTION

- A. Surface metallic or nonmetallic raceway for dry interior locations, provide all necessary fittings and hardware for devices shown on plans. Where not detailed on plan obtain approval from Architect on proposed routing of surface raceway.
1. Metal components: Conforming to specifications of UL 5.
 2. Plastic components: Exhibiting non-flammable, self-extinguishing characteristics when tested in

accordance with UL 94, V-0.

1.04 SUBMITTALS

- A. See Section 26 0500 – Basic Electrical Requirements - Submittal Procedures.
- B. Product Data: Provide dimensions, knockout sizes and locations, materials, fabrication details, finishes, and accessories. Manufacturer's descriptive literature for each system component specified in this section.
- C. Manufacturer's Instructions: Indicate application conditions and limitations of use stipulated by product testing agency specified under Quality Assurance. Include instructions for storage, handling, protection, examination, preparation, and installation of product.
- D. Shop Drawings: Indicate raceway layouts, raceway lengths, device types, and locations; identify all circuits.
- E. Closeout Submittals: If variations from approved shop drawings occur during installation of raceway system, submit final as-built drawings indicating such variations.

1.05 QUALITY ASSURANCE

- A. Conform to requirements of NFPA 70.
- B. Maintain one copy of document on site.
- C. Manufacturer Qualifications: Company specializing in manufacturing products specified in this Section with minimum three years documented experience.
- D. Products: Furnish products listed and classified by Underwriters Laboratories, Inc. as suitable for purpose specified and shown.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Store products of this section in manufacturer's unopened packaging until installation.
- B. Maintain storage area conditions for products of this section in accordance with manufacturer's instructions until installation.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Lamson & Sessions (Carlon).
- B. Mono-System.
- C. The Wiremold Company.
- D. Hubble Inc.
- E. Panduit
- F. Square D
- G. Thomas and Betts
- H. Substitutions: See Section 26 0500 – Basic Electrical Requirements: Product Substitutions.

2.02 SURFACE RACEWAYS

- A. Surface Nonmetal Raceway: Plastic channel with fitted cover, suitable for use as surface raceway.
1. Construction: Two-piece system of rigid polyvinyl chloride (PVC) extrusions with nominal 0.095 inch wall thickness.
 2. Size: 4000 series with divider.
 3. Finish: Ivory.
 4. Product:
 - a. Base: Two wiring channels separated by one integral barrier, each channel large enough to accept standard power and communication devices without restricting capacity of the adjacent channel.
 - b. Cover: Spanning entire width of base concealing all the wiring channels, flanged for snapping onto base side walls and center barrier.

B. Fittings:

1. Factory-formed units to complete indicated configuration of raceway systems, including, but not limited to, the following:
 - a. External corner units.
 - b. Internal corner units.
 - c. Flat units.
 - d. Blank end units.
 - e. Elbows.
 - f. Couplings: One per raceway joint location.
 - g. Wire clips: One for every 2 linear feet of indicated raceway configuration.
 - h. Replacement longitudinal barrier: One section for every 8 linear feet of indicated raceway configuration.
 2. Material: Same material and thickness as linear raceway components.
 3. Finish: Matching linear raceway components.
- C. Device Brackets and Plates:
1. Factory-formed brackets and plates allowing installation of indicated power, data, and communications devices, both single-gang and two-gang, either vertically or horizontally in raceways.
 2. Material: High impact plastic mounting bracket.
 3. Finish: Color matching linear raceway components.
- D. Cover Brackets and Face Plates:
1. Plastic device mounting brackets and trim plates allowing installation of indicated power, data, and communications devices horizontally in raceways; trim cover sized to overlap device cut-out in raceway, concealing seams.
 2. Material: High impact plastic overlapping trimplate
 3. Finish: Color matching linear raceway components.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verification of Conditions: Verify that substrates are prepared to receive products specified in this section.

3.02 INSTALLATION

- A. Install in accordance with shop drawings and manufacturer's instructions.
- B. Install raceways securely, in a neat and workmanlike manner.
- C. Use flat-head screws, clips, and straps to fasten raceway channel to surfaces. Mount plumb and level.
- D. Use suitable insulating bushings and inserts at connections to outlets and corner fittings.
- E. Ground and bond raceway and wireway under provisions of Section 26 0526).
- F. Installation of electrical devices, and wiring of electrical devices, as specified in Section 16140.
- G. Installation of wiring for communications devices as specified in Section 16721.

SECTION 26 0926 LIGHTING CONTROL RELAY PANEL

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Relay control panel and associated control devices, Occupancy Sensors

1.02 DESCRIPTION OF WORK

- A. Electrical Contractor shall coordinate all of the work in this section with all of the trades covered in other sections of the specification to provide a complete operable system.
- B. Related work requirements are indicated in the following sections of this specification.
- C. Theatrical lighting control to be by others coordinate with Theatrical lighting plans. Alternate relay lighting manufacturers shall be required to communicate with the theatrical lighting control system for sweeps (off) only. Architectural lighting in those spaces shall be controlled with the theatrical lighting. The circuiting for those spaces is called out as Zones.

1.03 SUBMITTAL

- A. See Section 26 0500 – Basic Electrical Requirements - Submittal procedures.
- B. Submittal documentation shall consist of:
- B. Bill of Materials - Manufacturer shall submit in bill of material form an itemized list of all materials being supplied to meet the specifications.
- C. Product Data - Manufacturer shall submit data on each of the components proposed for the networked low voltage lighting control system.
- D. One-Line Diagram - Manufacturer shall submit a one-line diagram of the proposed system configuration with relative placement of all equipment.
- E. Typical Wiring Diagrams - Submit typical wiring diagrams for all proposed equipment with sufficient details for all interconnections.
- F. Panel Schedule - Shall include panel number, relay number, circuit number, load description, switch/input and load schedules.
- G. Provide manufacturer's occupancy layout to engineer for approval showing what type of sensor, placement and mounting for all areas requiring motion sensor coverage. Manufacturer to provide required product to meet square footage requirements in each room

1.04 QUALITY ASSURANCE

- A. STANDARDS
1. NEC Compliance - Comply with NEC as applicable to electrical wiring work.
 2. NEMA Compliance - Comply with applicable portions of NEMA Standards pertaining to types of electrical equipment and enclosures.

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