



TOPEKA METRO

**REQUEST FOR BIDS
QSS South Office Remodel
TO-23-10**

**Appendix III
Drawings & Specifications**

1. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION - AIA A201" FORMS PART OF THIS CONTRACT AS IF HEREIN BOUND.
2. THE GENERAL CONTRACTOR TO VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO ANY DEMOLITION OR CONSTRUCTION AND VERIFY HOOKUP WITH ALL UTILITY COMPANIES AS REQUIRED.
3. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING OF SYSTEMS OR STRUCTURES AS REQUIRED BY CODE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. GENERAL CONTRACTOR TO BE RESPONSIBLE FOR DAILY CLEANUP OF SPACE AND FINAL CLEANUP WHEN PROJECT IS COMPLETE.

1. CASINGS, AND HOLLOW METAL TO DRYWALL AND DRYWALL - URETHANE SEALANT: ONE-PART SEALANT COMPLYING WITH ASTM C920; TYPE S, GRADE NS, CLASS 25
2. JOINTS AND SPACES TO BE CAULKED SHALL BE CLEAN, DRY AND FREE OF DUST, LOOSE MORTAR OR OTHER FOREIGN MATERIALS. AFTER JOINTS HAVE BEEN FILLED, THEY SHALL BE NEATLY TOOLED TO ELIMINATE AIR POCKETS OR VOIDS AND TO PROVIDE A SMOOTH, NEAT APPEARING SURFACE.

1. FRAMES SHALL BE 18 GAUGE STEEL.
2. FABRICATE HOLLOW METAL UNITS TO BE RIGID, NEAT IN APPEARANCE, AND FREE FROM DEFECTS, WARP OR BUCKLE.
3. PREPARE STEEL FRAMES TO RECEIVE MORTISED AND CONCEALED FINISH HARDWARE, INCLUDING CUTOUTS, REINFORCING, DRILLING AND TAPPING, COMPLYING WITH ANSI A115 "SPECIFICATIONS FOR DOOR AND FRAME PREPARATION FOR HARDWARE".
4. SHOP PAINT EXPOSED SURFACES OF HOLLOW METAL UNITS USING MANUFACTURER'S STANDARD BAKED ON RUST INHIBITIVE PRIMER.
5. FOR FIRE-RATED ASSEMBLIES PROVIDE UNITS THAT DISPLAY APPROPRIATE UL LABELS FOR FIRE RATING INDICATED AND OR REQUIRED.

1. PROVIDE FLUSH WOOD RED OAK VENEER SOLID CORE DOORS TO MATCH EXISTING, GRAHAM WOOD DOORS OR ARCHITECT APPROVED EQUAL.
2. STAIN WOOD DOORS TO MATCH EXISTING.

1. PROVIDE FINISH HARDWARE FOR ALL DOORS IN PROJECT. ALL HARDWARE SHOULD MATCH BUILDING STANDARD & FINISH. THE CONTRACTOR SHALL VERIFY ALL KEYING REQUIREMENTS WITH OWNER PRIOR TO INSTALLATION.
2. NEW LOCKS SHALL BE MASTER KEYED INTO OWNER'S EXISTING SYSTEM.
3. THE FOLLOWING HARDWARE SPECIFICATIONS SHALL BE USED AS A BASIS FOR BIDDING. VERIFY SPECIFIC HARDWARE REQUIREMENTS WITH BUILDING STANDARD:

1. PROVIDE 5/8" TYPE 'X' GYPSUM BOARD ALL LOCATIONS.

WALLBOARD SHALL BE AS MANUFACTURED BY U.S. GYPSUM OR EQUAL.
3/8" THICK TYPICAL AT ALL AREAS UNLESS OTHERWISE NOTED. "FIRE CODE" SHALL BE USED AS NOTED PER CONTRACT DRAWINGS. METAL EDGING SHALL BE USED AT ALL CORNERS AND TRANSITIONS. CONTROL JOINTS SHALL BE INSTALLED IN WALLS EXCEEDING 30'-0" IN LENGTH. WALL BOARD TO MEET ASTM 36.
3. WALL BOARD FINISH SHALL CONSIST OF THREE APPLICATIONS: JOINT COMPOUND OVER TAPE, SANDING THE FINAL TWO COATS SMOOTH.
4. MATERIALS SHALL MEET THE FOLLOWING STANDARDS:
 - 4.1. GYPSUM WALLBOARD - ASTM C36
 - 4.2. SCREWS - ASTM CERTIFIED
 - 4.3. METAL ACCESSORIES - ASA A97.1
 - 4.4. WATER RESISTANT GYPSUM BACKING BOARD - ASTM C 630

1. BASE SHALL BE 4" HIGH RUBBER, COVE TYPE WITH TOE, AS MANUFACTURED BY ROPPE OR APPROVED EQUAL. ADHESIVE SHALL BE IN ACCORDANCE WITH BASE MANUFACTURER'S RECOMMENDATIONS.
2. FLOOR COVERINGS, LVT & CARPET TILE, TO BE INSTALLED PER MANUFACTURE'S INSTRUCTIONS AND SPECIFICATIONS.

1. HOLLOW METAL FRAMES AND EXPOSED EXTERIOR METAL SHALL RECEIVE ONE COAT OF PRIMER FINISH AND TWO COATS OF SATIN FINISH ENAMEL.
2. ALL INTERIOR DRYWALL SHALL BE TAPED AND SANDED, WITH ONE COAT SEALER/PRIMER AND TWO COATS LATEX PAINT.
3. COLORS TO MATCH EXISTING. SURFACES SHALL BE CLEAN AND DRY PRIOR TO PAINTING. PROTECT ADJOINING SURFACES NOT TO BE PAINTED FROM PAINTING OPERATION. PAINT ALL EDGES OF DOORS AND IN GENERAL FOLLOW THE BEST APPLICATION PROCEDURES OF THE TRADE.
4. PAINTING SHALL BE FREE OF RUNS, DRIPS, SAGS, BRUSH MARKS AND COLOR VARIANCES.

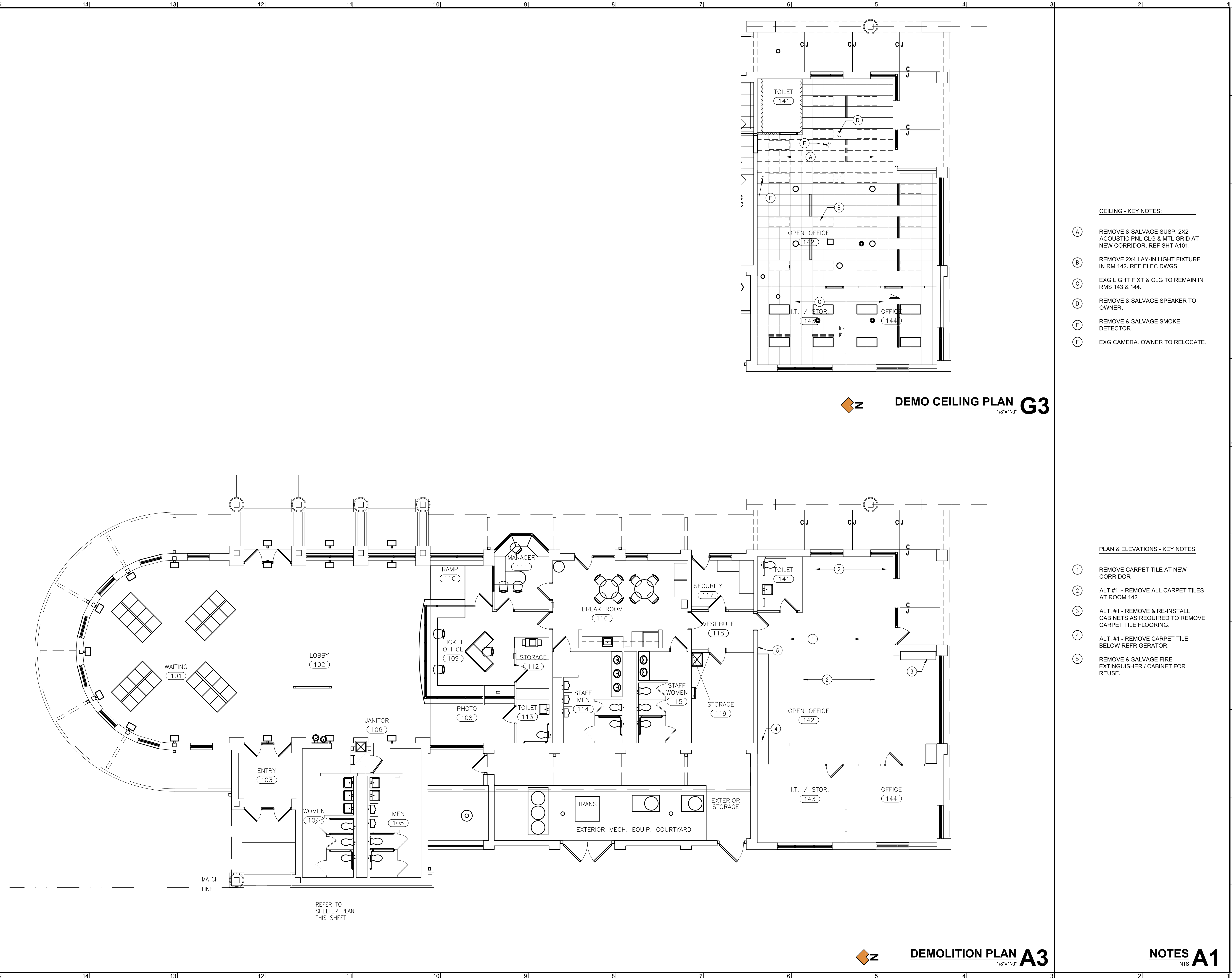
SEE ELECTRICAL DRAWINGS

<p>1. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH FEDERAL AND STATE LAWS, CURRENT LOCAL ORDINANCES AND ADOPTED BUILDING CODES, AND THE AMERICANS WITH DISABILITIES ACT (ADA). REFER TO CODE SUMMARY FOR SPECIFIC APPLICABLE LAWS, ORDINANCES, AND CODES. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.</p>	<p>8. ON COMPLETION OF THE PROJECT, CONTRACTOR SHALL CLEAN ALL SURFACES AND LEAVE THE WORK IN CLEAN CONDITION. THE CONTRACTOR AT ALL TIMES SHALL KEEP PREMISES FREE FROM WASTE MATERIALS AND RUBBISH CAUSED BY THE WORK.</p>
<p>2. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL PERMITS AND PAY ALL FEES AS NECESSARY FOR THE CONSTRUCTION COVERED IN THE PROJECT.</p>	<p>9. WHENEVER CONTRACT DOCUMENTS REASONABLY INFER MATERIALS OR INSTALLATION AS NECESSARY TO PRODUCE THE INTENDED RESULTS, BUT DO NOT FULLY DETAIL OR SPECIFY SUCH MATERIALS, THE CONTRACTOR SHALL PROVIDE THE MATERIALS AND LABOR REQUIRED FOR INSTALLATION.</p>
<p>3. ALL ESTIMATES OF QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL QUANTITIES AND SHALL PROVIDE ALL WORK AND MATERIALS AS SHOWN ON PLANS AND SPECIFIED IN THE SPECIFICATIONS.</p>	<p>10. THE SPECIFICATIONS HAVE BEEN PARTIALLY "STREAMLINED" AND SOME WORDS AND PHRASES HAVE BEEN INTENTIONALLY OMITTED. MISSING PORTIONS SHALL BE SUPPLIED BY INFERENCE AS WITH NOTES ON DRAWINGS.</p>
<p>4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.</p>	<p>11. WORDS LIKE "INSTALL," "PROVIDE," "LOCATE," "FURNISH," AND "SUPPLY" SHALL BE CONSTRUED TO INCLUDE COMPLETE FURNISHINGS AND INSTALLING OR CONSTRUCTION BY THE CONTRACTOR.</p>
<p>5. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, AND SEQUENCE OF CONSTRUCTION AND THE SAFETY OF ALL CONSTRUCTION PERSONNEL AND VISITORS.</p>	<p>12. ALL MANUFACTURER AND PRODUCT REFERENCES ARE BASIS-OF-DESIGN ONLY. ITEMS CAPABLE OF EQUAL PERFORMANCE, BUT PROVIDED BY AN ALTERNATE MANUFACTURER, WILL BE ACCEPTABLE.</p>
<p>6. DO NOT SCALE DRAWINGS; FOLLOW WRITTEN DIMENSIONS AND NOTES. CONTACT ARCHITECT FOR CLARIFICATIONS IF REQUIRED.</p>	<p>13. ALL EXISTING CONDITIONS, DIMENSIONS, AND MATERIALS OF CONSTRUCTION ARE TO BE VERIFIED IN THE FIELD PRIOR TO ANY DEMOLITION WORK OR ANY NEW CONSTRUCTION.</p>
<p>7. "TYPICAL" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITIONS OR DIMENSIONS ARE REPRESENTATIVE OR THE SAME FOR SIMILAR CONDITIONS THROUGHOUT.</p>	

ATTN: SCOTT MCKINLEY



SHEET FILE LOCATION: P:\TMTA_QSS OFFICE REMODEL\DRAWINGS\101.DWG LAST SAVED: 9/30/2022 4:51 PM BY: TD



DEMOLITION PLAN A3
1/8"=1'-0"

DEMO CEILING PLAN G3
1/8"=1'-0"

- CEILING - KEY NOTES:
- A REMOVE & SALVAGE SUSP. 2X2 ACOUSTIC PNL CLG & MTL GRID AT NEW CORRIDOR, REF SHT A101.
 - B REMOVE 2X4 LAY-IN LIGHT FIXTURE IN RM 142. REF ELEC DWGS.
 - C EXG LIGHT FIXT & CLG TO REMAIN IN RMS 143 & 144.
 - D REMOVE & SALVAGE SPEAKER TO OWNER.
 - E REMOVE & SALVAGE SMOKE DETECTOR.
 - F EXG CAMERA. OWNER TO RELOCATE.

- PLAN & ELEVATIONS - KEY NOTES:
- 1 REMOVE CARPET TILE AT NEW CORRIDOR
 - 2 ALT.#1 - REMOVE ALL CARPET TILES AT ROOM 142.
 - 3 ALT.#1 - REMOVE & RE-INSTALL CABINETS AS REQUIRED TO REMOVE CARPET TILE FLOORING.
 - 4 ALT.#1 - REMOVE CARPET TILE BELOW REFRIGERATOR.
 - 5 REMOVE & SALVAGE FIRE EXTINGUISHER / CABINET FOR REUSE.

NOTES A1
NTS

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SOUTH OFFICE REMODEL
Topeka Metropolitan Transit Authority

820 SE QUINCY STREET TOPEKA, KS. 66612

PROJECT NUMBER: 22004

#	ISSUE/REVISION	DATE

SHEET TITLE

D101

CONTRACT DOCUMENTS
9-30-2022

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- NOTES** **A1**
NTS



15000 - MECHANICAL SPECIFICATIONS

SECTION 15000 - MECHANICAL REQUIREMENTS
1. GENERAL REQUIREMENTS
A. ALL WORK SHALL BE IN ACCORDANCE W/ LATEST EDITION OF INTERNATIONAL BUILDING CODE, MECHANICAL & PLUMBING CODES, CODES AS ADOPTED BY CITY, COUNTY, STATE & ALL OTHER APPLICABLE CODES.
B. FURNISH & INSTALL ALL LABOR & MATERIALS REQUIRED FOR COMPLETE, FUNCTIONING, MECHANICAL & PLUMBING SYSTEMS W/ ALL ASSOCIATED EQUIPMENT & APPARATUS AS SHOWN ON PLANS. "PROVIDE" MEANS TO FURNISH & INSTALL.
C. OBTAIN & PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THIS WORK & SHALL MAKE ARRANGEMENTS FOR MODIFICATIONS TO WATER, GAS & SEWER CONNECTIONS TO BUILDING AS REQUIRED.
D. VISIT SITE & OBSERVE CONDITIONS UNDER WHICH WORK WILL BE DONE. ANY DISCREPANCIES SHALL BE CALLED TO ARCHITECT'S ATTENTION. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN CONTRACT FOR ANY ERROR OR NEGLIGENCE ON CONTRACTOR'S PART.
E. FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS & APPLIANCES OPERATE SATISFACTORILY AS DESIGNED & INTENDED. WORK SHALL INCLUDE REQUIRED ADJUSTMENT OF SYSTEMS & CONTROL EQUIPMENT INSTALLED UNDER THESE SPECIFICATIONS.
F. WARRANTY TO OWNER QUALITY OF MATERIAL, EQUIPMENT, WORKMANSHIP & OPERATION OF EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS FOR ONE YEAR FROM & AFTER COMPLETION OF BUILDING & ACCEPTANCE OF MECHANICAL SYSTEMS BY OWNER.
G. FINISH MATERIALS - ALL FINISHES SHALL BE NONCOMBUSTIBLE OR HAVE FLAME/SMOKE INDEX OF NO MORE THAN 25/50 IN ACCORDANCE W/ ASTM E 84.
H. ROOF PENETRATIONS - MADE BY AUTHORIZED ROOFING CONTRACTOR WHEN REQUIRED.

SECTION 15100 - PLUMBING
2. PIPING
A. WATER PIPING - ALL WATER PIPING SHALL BE 95-5 TIN-ANTIMONY JOINED TYPE L COPPER. INSULATE W/ FIBERGLASS PIPE INSULATION W/ ASJ HUBS & PVC COVERS. THICKNESS IN ACCORDANCE W/ ASHRAE 90.1.
B. WASTE & VENT PIPING - CI BELL & SPOOT OR RUBBER C/J W/ NEOPRENE GASKET FITTINGS W/ STAINLESS STEEL BANDS. SCHED 40 PVC W/ SOLVENT WELDS MAY BE USED WHERE ALLOWED BY LOCAL CODE. PVC NOT ALLOWED IN PLENUMS.
C. ROOF/STORM DRAIN PIPING - CI BELL & SPOOT OR RUBBER C/J W/ NEOPRENE GASKET FITTINGS W/ STAINLESS STEEL BANDS. SCHED 40 PVC W/ SOLVENT WELDS MAY BE USED WHERE ALLOWED BY LOCAL CODE. PVC NOT ALLOWED IN PLENUMS.
D. INSULATE W/ MIN 1/2" FIBERGLASS PIPE WRAP W/ ASJ JACKET.
E. GAS PIPING - PROVIDE SCHED 40 CONT. WELD CARBON STEEL W/ CORRESPONDING FITTINGS. PROVIDE THEATED FITTINGS. PROVIDE IRON BODY-BRASS PLUG GAS STOPS. PAINT ALL EXPOSED GAS PIPING ON THE EXTERIOR OF THE BUILDING INCLUDING ON THE ROOF.
3. VALVES
A. EQUIVALENT VALVES LISTED ON CURRENT COMPARISON CHARTS OF SPECIFIED VALVE MANUFACTURERS BY MILWAUKEE, STOCKHAM, POWELL, REDD, WHITE, CRANE, APOLLO, MUELLER, MUSSCO, WATTS, HAYS, ROCKWELL-NORSTROM.
B. BALL VALVES - 1/2" & 3/4" - BRONZE FULL PORT W/ TEFLOW SEATS, BRONZE BALL & INSULATED HANDLE.
C. BALANCING VALVES - ARMSTRONG CHB 110V OR CHB 11, 125 PSI-WP AT 250 DEGREES F, METER CONNECTIONS W/ BUILT-IN CHECK VALVES SCREWED OR FLANGED GAUGES. PROVIDE POLYURETHANE INSULATION COVER.
D. CHECK VALVES - 2" - 7" SMALLER SOLDER OR SOLDER BRONZE CHECK VALVE, 200 PSI-WOG/125 PSI-WSP, TEFLOON OR BRONZE DISC & SEAT RING. 2-1/2" & LARGER FLANGED. INSTAL 126 IRON BODY, BRONZE THREADED, 200 PSI-WOG/125 PSI-WSP.
H. BUTTERFLY VALVES - 1/2" & 3/4" - BRONZE DISC & SEAT RING, TEFLOON FULL LUG BODY, 200 PSI-WOG, EXTENDED NECK, BRONZE DISC, STAINLESS STEEL STEM, FIELD-REPLACEABLE EPDM SLEEVE & STEM SEALS.

FIXTURES - SEE SCHEDULES
A. FIXTURES: AMERICAN STANDARD, KOHLER, CRANE, ZURN, TOTO.
B. STAINLESS STEEL FIXTURES: ELKAY, JUST, MOEN COMMERCIAL.
C. FITTING & SUPPLYING: CARBIDAY, SMITH, WADE, OR JONESPEC.
D. SEATS: CHURCH, OLSONITE, BEIMS OR BENKE.
E. DRINKING FOUNTAINS: HALSEY TAYLOR, ELKAY, OASIS, OR HAWS.
F. TRIM BY DELTA, ELDER, KOBACH, SHERMAN STANDARD, CRANE, SLOAN.
G. FLUSHVALVES: SLOAN, ZURN, TOTO.
H. DRAINS BY WADE, ZURN, WOODFORD, SMITH, JOSAM.
I. ROOF VENTILATION DRAINS - CAST IRON ROOF DRAIN W/ FLANGE, CI MUSHROOM DOME. 2" DAM FOR VENTILATION DRAINS.
J. WALL HYDRANTS JOSAM SERIES 71000 W/ CONNECTIONS FOR 3/4" PIPE & HOSE. NON-FREEZING W/ KEY, VACUUM BREAKER, LOCKING COVER. EQUIVALENT BY J.R. SMITH, WADE, WOODFORD OR ZURN.

EQUIPMENT - SEE SCHEDULES
A. WATER HEATER - STATE, RHEEM, NATIONAL, A.O. SMITH, PORCELAINIZED GLASSLINED TANK, COLD WATER INLET DROP TUBE, MAGNESIUM ANODE RODS, 110 SEI, 160 PSI FACTORY WARRANTY & PRESSURE RELIEF VALVE. N.S.F. CONSTRUCTION. 3 YR WARRANTY.
B. SUBMERSIBLE PUMP PUMPS - SIMPLEX/DUPLEX SUBMERSIBLE PUMP SYSTEM AS SCHED/SHOWN, PUMP CASING ONE PIECE CAST IRON W/ SUPPORT LEGS, CI SUCTION STRAINER. VERTICAL MOTOR, NEMA-6, NOT LESS THAN HP SCHED & 1750 RPM. AUTO-RESET THERMAL/OVERLOAD PROTECTION.
C. REGULATION PUMPS - HORIZONTAL, OIL-LUBRICATED, ALL BRONZE. NON-OVERLOADING MOTOR.

EXECUTION
A. PROVIDE UNIONS OR FLANGED JOINTS IN EACH PIPE LINE PRECEDING CONNECTIONS TO EQUIPMENT TO ALLOW REMOVAL FOR REPAIR OR REPLACEMENT. PROVIDE ALL SCREWED & CONTROL VALVES W/ UNIONS ADJACENT TO EACH CONNECTION. PROVIDE SCREWED END VALVES W/ UNIONS ADJACENT TO VALVE UNLESS VALVE CAN BE OTHERWISE EASILY REMOVED FROM LINE.
B. AFTER PIPING IS IN PLACE TEST UNITS TO ENSURE NO LEAKS.
C. ALL DRINK & EQUIPMENT SHALL BE SUPPORTED PROPERLY FROM STRUCTURE.
D. ESCUTCHEONS - PROVIDE NICKEL-BRASS OR CHROME PLATED ON ALL EXPOSED PIPES WHEN PASSING THRU WALL OR CEILING OF FINISHED ROOMS.
E. VERIFY FLOOR MATERIALS USED FROM ARCHITECTURAL PLANS & PROVIDE PROPER CLEANOUT. TILES, WHERE THEY OCCUR IN CARPET, QUARRY TILE, VINYL TILE OR CERAMIC TILE.
F. PROVIDE WATER HAMMER ARRESTORS FOR ALL PLUMBING BANKS W/ FIXTURES UTILIZING FLUSH VALVES IN ANY ROOM. PROVIDE WATER HAMMER ARRESTER BETWEEN LAST TWO FIXTURES SERVED ON BRANCH LINE.

SECTION 15300 - HVAC
GENERAL
A. PROVIDE COMPLETE HVAC SYSTEM AS SHOWN ON DRAWINGS INCLUDING ALL NECESSARY EQUIPMENT, DUCTWORK, DIFFUSERS, GRILLES, & FILTERS. PROVIDE OPERATING & MAINTENANCE INSTRUCTIONS ON ALL EQUIPMENT.
B. ALL HVAC WORK SHALL BE DONE IN STRICT ACCORDANCE W/ ALL REQUIREMENTS OF LOCAL BUILDING CODE, ASHRAE, NEC, NFPA, & ALL OTHER APPLICABLE CODES HAVING JURISDICTION.

DUCTWORK
A. HVAC DUCTWORK SHALL BE GALV SHEET METAL OF GAUGES & JOINT TYPES SPECIFIED IN SMOKE MANUAL. PROVIDE TURNING VANES IN ELBOWS.
B. EXPOSED SPIRAL DUCT SHALL BE DOUBLE WALL SPIRAL INTERNAL INSULATED WITH PERFORATED LINER WITH 1" INSULATION R VALUE OF 4 MINIMUM.
C. VOLUME DAMPERS SHALL BE MANUAL. LOCKING BLADE TYPE.
D. DISHWASHER EXHAUST DUCT SHALL BE NEW COMMERCIAL QUALITY, BRIGHT TYPE 302 STAINLESS STEEL. CONSTRUCTION SHALL BE WELDED. DUCTWORK SHALL SLOPE TO DRAIN.
E. GREASE DUCT SHALL BE NEW COMMERCIAL QUALITY BLACK STEEL FOR GREASE DUCTS. CONSTRUCTION SHALL BE WELDED. STEEL MINIMUM OF 16 GAUGE.
F. ALL DUCTWORK MUST BE SUPPORTED PROPERLY FROM STRUCTURE.
G. WRAP ALL SUPPLY & OUTSIDE AIR HVAC DUCTWORK W/ CERTAINTED 1-1/2" THICK INSULATION W/ VAPOR BARRIER IN CONCEALED LOCATIONS. ALSO LINE FIRST 10' OF SUPPLY DUCTWORK FOR SOUND ATTENUATION (IN ADDITION TO WRAP LINE ALL RETURN AIR DUCTS & TRANSFER BOOTS W/ 1/2" LINER. DO NO WRAP EXPOSED SPIRAL DUCTS.
H. EXTERNAL FIRE INSULATION FOR GREASE DUCTS - 2 HR. FIRE RESISTANCE RATING SHALL BE PABCO SUPER FIRE-IMP-L. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS. EQUIVALENT BY 3M DUCTWRAP, PROVIDE (2) 1 1/2" LAYERS.

SPECIALTIES
A. FLEXIBLE DUCTS - THERMAFLEX OR EQUAL SOUND RATED TYPE G-KW INSULATED. (DUCT W/O PUBLISHED ACOUSTICAL ATTENUATION RATINGS NOT ACCEPTABLE). FITTING SHALL BE HI-EFF STYLE W/ LOCKING DAMPER. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL BE 7'-0".
B. DIFFUSERS & GRILLES - SEE SCHEDULE. EQUIVALENT BY PRICE, TITUS & BAILEY, TITUS, WATL-HIRE, KREUGER, MALLOR. COORDINATE COLOR, MOUNTING W/ DUCT, CEILING, ARCHITECT.
C. LOUVERS - GREENHECK TYPE FSX-400 FABRICATED GALVANIZED STEEL LOUVER W/ TRIM FLANGE. EQUIVALENT BY RUSKIN, LOUVERS & DAMPERS, GREENHECK, AMERICAN WINDING. 7" VENTILATING, INDUSTRIAL LOUVERS, ACME. COORDINATE FINISH W/ ARCHITECT.

PIPING
A. REFRIGERANT PIPING - COPPER TUBE TYPE ACR, HARD TEMPER NITROGENIZED REFRIGERANT TUBE, ASTM B-88. TYPE L OR K. BRAZED JOINTS. INSULATE W/

16000 - ELECTRICAL SPECIFICATIONS

SECTION 16000 - ELECTRICAL REQUIREMENTS
GENERAL REQUIREMENTS
A. ALL WORK SHALL BE IN ACCORDANCE W/ LATEST EDITION OF INTERNATIONAL BUILDING CODE, NATIONAL ELECTRICAL CODE, NFPA CODES AS ADOPTED BY CITY, COUNTY, STATE & ALL OTHER APPLICABLE CODES.
B. ALL MATERIALS & EQUIPMENT SHALL BE NEW & SHALL BEAR U.L. LABEL WHERE APPLICABLE. PROVIDE WATERPROOF EQUIPMENT ENCLOSURES WHERE REQUIRED.
C. OBTAIN & PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THIS WORK & SHALL MAKE ARRANGEMENTS FOR MODIFICATIONS TO ELECTRICAL CONNECTIONS TO BUILDING AS REQUIRED.
D. CONTRACTOR SHALL PROVIDE ALL LABOR & MATERIALS REQUIRED TO HAVE COMPLETE FUNCTIONING ELECTRICAL LIGHTING & POWER SYSTEMS TOGETHER W/ ALL ASSOCIATED EQUIPMENT & APPARATUS AS SHOWN ON PLANS.
E. WHERE AN ELECTRICAL DEVICE IS REQUIRED BY CODE BUT NOT SHOWN, IT SHALL BE PROVIDED AS THOUGH FULLY SHOWN & SPECIFIED.
F. CONTRACTOR SHALL VISIT SITE & OBSERVE CONDITIONS UNDER WHICH WORK WILL BE DONE. ANY DISCREPANCIES SHALL BE CALLED TO ARCHITECT'S ATTENTION. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION FOR ANY ERROR OR NEGLIGENCE ON CONTRACTOR'S PART.
G. FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS & APPLIANCES OPERATE SATISFACTORILY AS DESIGNED & INTENDED. WORK SHALL INCLUDE REQUIRED ADJUSTMENT OF SYSTEMS & CONTROL EQUIPMENT INSTALLED UNDER THESE SPECIFICATIONS.
H. WARRANTY TO OWNER QUALITY OF MATERIALS, EQUIPMENT, WORKMANSHIP & OPERATION OF EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS FOR ONE YEAR FROM & AFTER COMPLETION OF BUILDING & ACCEPTANCE OF MECHANICAL SYSTEMS BY OWNER.
I. ALL MATERIALS INSTALLED IN PLENUMS SHALL BE NONCOMBUSTIBLE OR HAVE FLAME/SMOKE INDEX OF NO MORE THAN 25/50 IN ACCORDANCE W/ ASTM E 84.

SECTION 16100 - CONDUIT & CONDUCTORS
A. FOLLOW OR CONSULT SHOWN ON PLANS. USE NO CONDUIT SMALLER THAN 1/2" & NO CONDUITS SMALLER THAN 1/2" GA. UNLESS NOTED OTHERWISE.
B. CONDUITS SHALL BE IN NON-FLEXIBLE METALLIC CONDUIT (EMT, IMC OR RMC) FOR ALL CIRCUITS AND FEEDERS GREATER THAN 30A, LIGHT SWITCH RISERS, KITCHEN CIRCUITS & HOME RUNS.
C. NO CABLE ACCEPTABLE FOR BRANCH CONVENIENCE CIRCUITS AND LIGHTING CIRCUITS.
D. DO NOT DASHY CHAIN LIGHT FIXTURES. PROVIDE MC LUMINARY CABLE WITH BUILT-IN TWISTED JACKETED PAIR FOR LIGHTING CIRCUITS FOR LIGHTING CONTROLS. PROVIDE HEALTH CARE RATED MC FOR MEDICAL TREATMENT AREAS WHEN NOT IN CONDUIT.
E. CONDUIT INSTALLED BELOW GRADE SHALL BE SCHEDULE 80 PVC HEAVY WALL PLASTIC CONDUIT MEETING NEMA STANDARDS & U.L. LISTED FOR UNDERGROUND & EXPOSED USE. PROVIDE GRE RATED BANDS & RISERS AS CONDUTS RISE ABOVE GRADE OR ABOVE FLOOR SLAB.
F. PROVIDE INTERLOCKING SPACERS FOR MULT RUNS OF UG CONDUITS IN SAME TRENCH.
G. LIGHTING & RECEPTACLE CIRCUIT CONDUCTORS SHALL BE COPPER THINW/THIN 600 VOLT, 75 DEG C, COLOR CODED AS DESCRIBED UNDER APPLICABLE CODES. NO ROMEX, PLASTIC FLEX TUBING ETC PERMITTED. LIGHT FIXTURE WIRE INSULATION SHALL HAVE TEMP RATING NOT LESS THAN INDIVIDUAL FIXTURE WIRE INSULATION.
H. REFER TO LIGHTING FIXTURE SCHEDULE PLANS FOR FIXTURE TYPES.
I. EQUIVALENT LUMINAIRES BY CREE, COPPER, HUBBELL, INFINITY, LITHONIA, WILLIAMS, COLUMBIA, EXTRACTORNS, LITERALAM, EXIDE, MALE, DUALITE.

SECTION 16200 - GROUNDING
A. SUPPLEMENT GROUNDING NEUTRAL OF SECONDARY DISTRIBUTION SYSTEM W/ EQUIPMENT GROUNDING SYSTEM. INSTALLED SO THAT METALLIC STRUCTURES, CONDUITS, RACEWAYS, JUNCTION BOXES & OUTLET BOXES, CABINETS, MACHINE FRAMES, PORTABLE EQUIPMENT & OTHER CONDUCTIVE ITEMS OPERATE CONTINUOUSLY AT GROUND POTENTIAL & PROVIDE LOW IMPEDANCE PATH FOR GROUND FAULT.
B. SYSTEM SHALL COMPLY W/ NATIONAL ELECTRICAL CODE, DRAWINGS & AS SPECIFIED.
C. PROVIDE EQUIPMENT GROUND BUS IN BASE OF LOW VOLTAGE, SWITCHGEAR BRAZED OR OTHERWISE ADEQUATELY CONNECTED BY AN APPROVED METHOD TO GROUND RODS.
D. PROVIDE IN CONDUIT GREEN INSULATED COPPER GROUND CONDUCTOR TO MAIN METALLIC WATER SERVICE ENTRANCE & CONNECT BY MEANS OF ADEQUATE GROUND CLAMPS.
E. EQUIPMENT GROUNDING CONDUCTORS FOR BRANCH CIRCUIT HOME RUNS SHOWN ON DRAWINGS SHALL INDICATE AN INDIVIDUAL & SEPARATE GROUND CONDUCTOR FOR THAT BRANCH CIRCUIT WHICH SHALL BE TERMINATED AT BRANCH CIRCUIT PANELBOARD.
F. PROVIDE LOW VOLTAGE DISTRIBUTION SYSTEM W/ SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR EACH SINGLE OR THREE-PHASE FEEDER. SINGLE PHASE 120 VOLT BRANCH CIRCUITS FOR LIGHTING & POWER SHALL CONSIST OF 14-2 WIRE WITH GROUND. 208-240V CIRCUITS SHALL BE 12-3 WIRE W/ GROUND. ALL CIRCUIT BREAKERS (SERIES RATED ACCEPTABLE) GALV STEEL ENCLOSURE.
G. EQUIVALENT BY SQUARE D, SIEMENS, CUTLER HAMMER, OR GE.

SECTION 16300 - ELECTRICAL IDENTIFICATION
A. MANUFACTURED LABELS FOR EACH PANELBOARD & TRANSFORMER. TYPEWRITTEN PANEL SCHEDULES MOUNTED IN PANELS.
B. PRINTED TAPE STYLE LABEL FOR EACH RECEPTACLE INDICATING PANEL & CIRCUIT #.
C. MANUFACTURED LABELS FOR ALL DISCONNECT SWITCHES INDICATING EQUIPMENT SERVED.

ABBREVIATIONS

A/E	ARCHITECT / ENGINEER	ELEV	ELEVATION	MLO	MAN LUGS ONLY
AFF	ABOVE FINISHED FLOOR	EM	EMERGENCY FIXTURE/DEVICE	NFA	NET FREE AREA
AFG	ABOVE FINISHED GRADE	ENT	ENTERING WATER TEMPERATURE	NL	NIGHT LIGHT
AG	ABOVE GRADE	EXT	EXISTING ITEM	OA	OUTSIDE AIR
AJU	AUTHORITY HAVING JURISDICTION	F7A	FROM FLOOR ABOVE	ORD	OVERFLOW ROOF DRAIN
AHU	AIR HANDLING UNIT	FFB	FROM FLOOR BELOW	P/C	PLUMBING CONTRACTOR
ARCH	ARCHITECT	FFCO	FINISHED FLOOR CLEAN OUT	P/SI	POUNDS PER SQUARE INCH
BFP	BACKFLOW PREVENTER	FGCO	FLUSH GRADE CLEAN OUT	PVC	POLYVINYLCHLORIDE
BGR	BUILDING GRADE	FL	FLOOR	RA	RETURN AIR
BLDG	BUILDING	FLR	FLOOR	RE/REF	REFER / REFERENCE
BMS	BUILDING MANAGEMENT SYSTEM	FP	FIRE PROTECTION	RF	RELIEF PAN
C	CONDUIT	FTM	FEET PER MINUTE	RF1	RELOCATED ITEM
CD	CANDELA	FWCO	FLUSH WALL CLEAN OUT	RPZ	REDUCED PRESSURE ZONE
CEG	COLD DECK	G	GROUND / GANG	RR	RESTROOM
CLG	CEILING	GO	GROUND / GANG	SA	SUPPLY AIR
CM	COORDINATE MOUNTING HEIGHT	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SPD	SURGE PROTECTIVE DEVICE
CO	CLEAN OUT	GPW	GALLONS PER MINUTE	ST	SHUNT TRIP
CTE	CONNECT TO EXISTING	HD	HOT DECK	TA	TRANSFER AIR
DCA	DOUBLE CHECK VALVE ASSEMBLY	HG	HEATING	TA	TO FLOOR ABOVE
DA	DAMPER	IC	ISOLATED GROUND	TB	TO FLOOR BELOW
DDC	DIRECT DIGITAL CONTROLS	IG	ISOLATED GROUND	TP	TEMPERATURE
DF	DRINKING FOUNTAIN	LED	LIGHT EMITTING DIODE	TPP	TYPICAL
DHW	DOMESTIC HOT WATER	LWT	LEAVING WATER TEMPERATURE	UN	UNLESS NOTED OTHERWISE
DHWR	DOMESTIC HOT WATER RETURN	M/C	MECHANICAL CONTRACTOR	VRP	VARIABLE REFRIGERANT FLOW
DN	DOWN	MA	MIXED AIR	VR	VENT THROUGH ROOF
D/C	ELECTRICAL CONTRACTOR	MAU	MAKE UP AIR UNIT	WCO	WALL CLEANOUT
EA	EXHAUST AIR	MCB	MAIN CIRCUIT BREAKER	WG	WIRE GUARD
ED	ELECTRIC DRINKING FOUNTAIN	MECH	MECHANICAL	WP	WEATHERPROOF
		MANHOLE	MANHOLE		

FIRE SEALING NOTES

1. COORDINATE CONSTRUCTION OF OPENINGS AND PENETRATING ITEMS TO ENSURE THAT THROUGH-PENETRATION FIRESTOP SYSTEMS ARE INSTALLED ACCORDING TO SPECIFIED AND APPLICABLE U.L. REQUIREMENTS.
2. COORDINATE SIZING OF SLEEVES, OPENINGS, CORE-DRILLED HOLES, OR CUT OPENINGS TO ACCOMMODATE THROUGH-PENETRATION FIRESTOP SYSTEMS.
3. DO NOT COVER UP THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLATIONS UNTIL EXAMINED BY INSPECTOR, IF REQUIRED BY AUTHORITIES HAVING JURISDICTION.
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SHEET FILE LOCATION: Z:\22022.024 TOPEKA METRO QUINCY OFFICE REMODELDRAWINGS\MEP-TOPEKA METRO QUINCY STREET STATION.DWG BY: ELI THOMPSON LAST SAVED: 9/30/2022 2:53 PM

MINI-SPLIT DUCTLESS EVAPORATOR/HEAT PUMP SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	NOMINAL SIZE	MAX CFM	ENTERING AIR DRY/WET	COOLING MBH	HEATING MBH	ELECTRICAL	MOCF AMPS	MIN CIRCUIT AMPS	DISCONNECT	NOTES
MSEV/MSHP-1	DAIKIN	NTXCKS18A112AA/NTXSKH18A112AA	1.5 TON	475/475	80/67	18.0	18.8	208/240V, 1Ø	31	17.0	YES	1,2,3

NOTES LEGEND

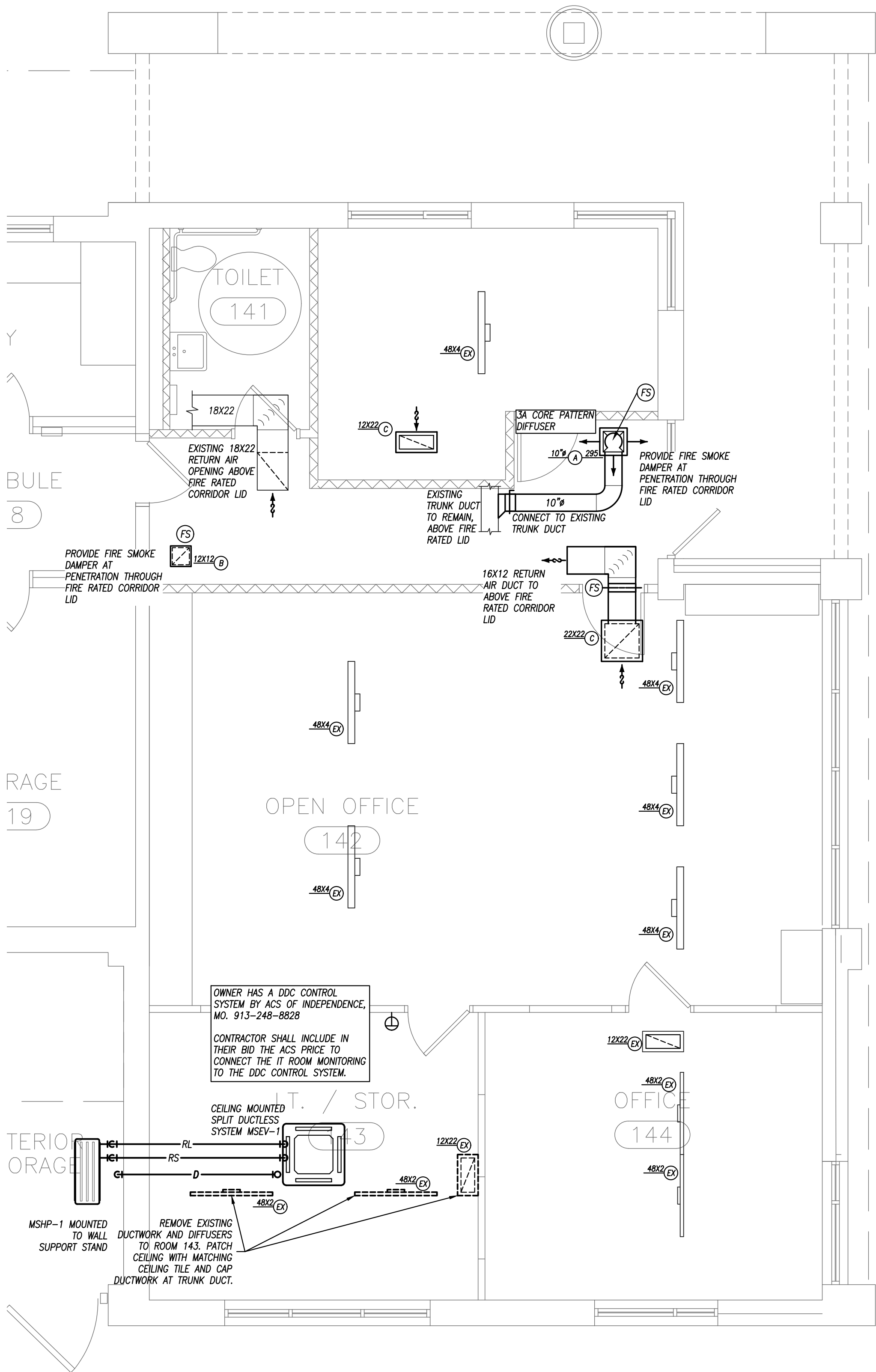
1. PROVIDE WIRED REMOTE THERMOSTAT, AND CONDENSATE PUMP.
2. PROVIDE ALL NEEDED ACCESSORIES FOR A COMPLETE INSTALLATION WITH LOW AMBIENT COOLING DOWN TO 0 DEG AMBIENT.
3. VERIFY EXACT REFRIGERANT LINE SIZES WITH MANUFACTURER.

GRILLE, REGISTER & DIFFUSER SCHEDULE

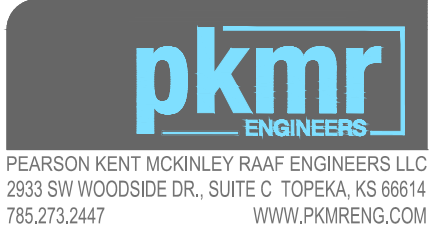
PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	MOUNT TYPE	VOLUME DAMPER	MATERIAL	MATERIAL COLOR	NOTES
A	PRICE	SMD-3A1	SUPPLY	FLANGE	YES	STEEL	WHITE	3
B	PRICE	535	RETURN/EXHAUST	FLANGE	NO	STEEL	WHITE	3
C	PRICE	535-0	RETURN	GRID	NO	STEEL	WHITE	1

NOTES LEGEND

1. PROVIDE WITHOUT SCREW HOLES WHERE USED IN A GRID CEILING
2. PAN TO FIT A 2'X2' GRID.
3. PROVIDE FIRE RADIATION DAMPER AT GYPBOARD CEILING.



FLOOR PLAN - HVAC
1/4" = 1'-0"



PEARSON KENT MOKINLEY RAAF ENGINEERS LLC
2933 SW WOODSIDE DR., SUITE C TOPEKA, KS 66614
785.273.2447 WWW.PKMRENGINEERS.COM



1250 SW OAKLEY AVE STE 200
TOPEKA, KS 66604
P: 785.234.6664
WWW.CIVIAMARCHITECTS.COM



CONSULTANTS:

MEP ENGINEER

PKMR
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Quincy Street Station
SOUTH OFFICE REMODEL
Topeka Metropolitan Transit Authority

820 SE QUINCY STREET TOPEKA, KS. 66612

PROJECT NUMBER: 22004

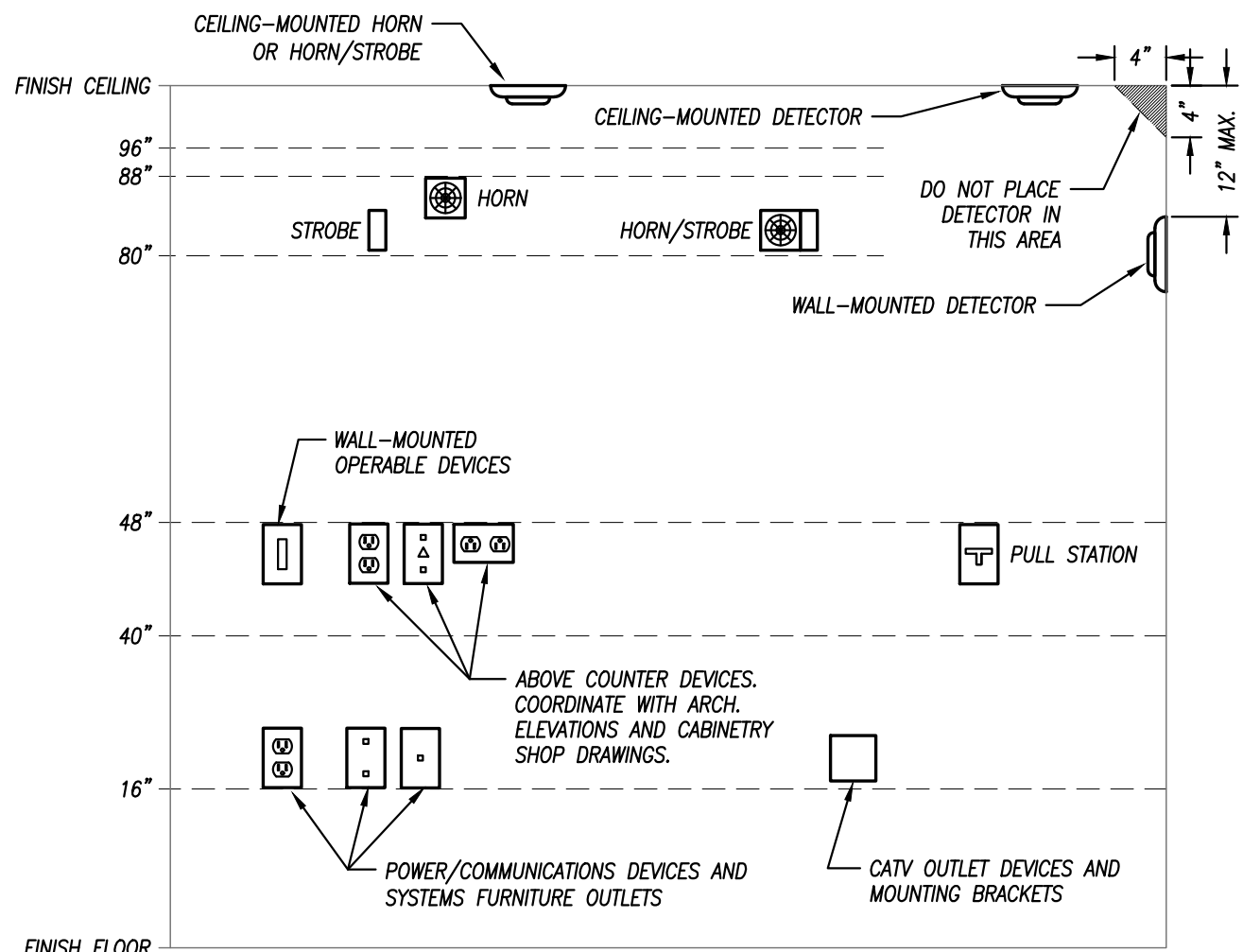
#	ISSUE/REVISION	DATE

HVAC PLAN

M100

CONTRACT DOCUMENTS
9-30-2022

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GENERAL NOTES:
1. MOUNTING HEIGHTS SHOWN IN THIS DETAIL ARE TYPICAL UNLESS OTHERWISE NOTED ON THE PLANS.
2. SEE ARCHITECTURAL ELEVATIONS FOR SPECIAL CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.
3. ALL INSTALLATIONS SHALL COMPLY WITH ADA.

VISUAL FIRE ALARM NOTIFICATION DEVICES (STROBE)
LOCATE DEVICE SO THE BOTTOM OF THE DEVICE IS BETWEEN 80" AND 96" A.F.F. (NFPA) OR 6" BELOW CEILING, WHICHEVER IS LOWER (ADA 2010).

AUDIBLE FIRE ALARM NOTIFICATION DEVICES (HORN)
LOCATE DEVICE SO THAT THE TOP OF UNIT IS NOT MORE THAN 90" A.F.F. AND NOT LESS THAN 6" BELOW CEILING (NFPA).

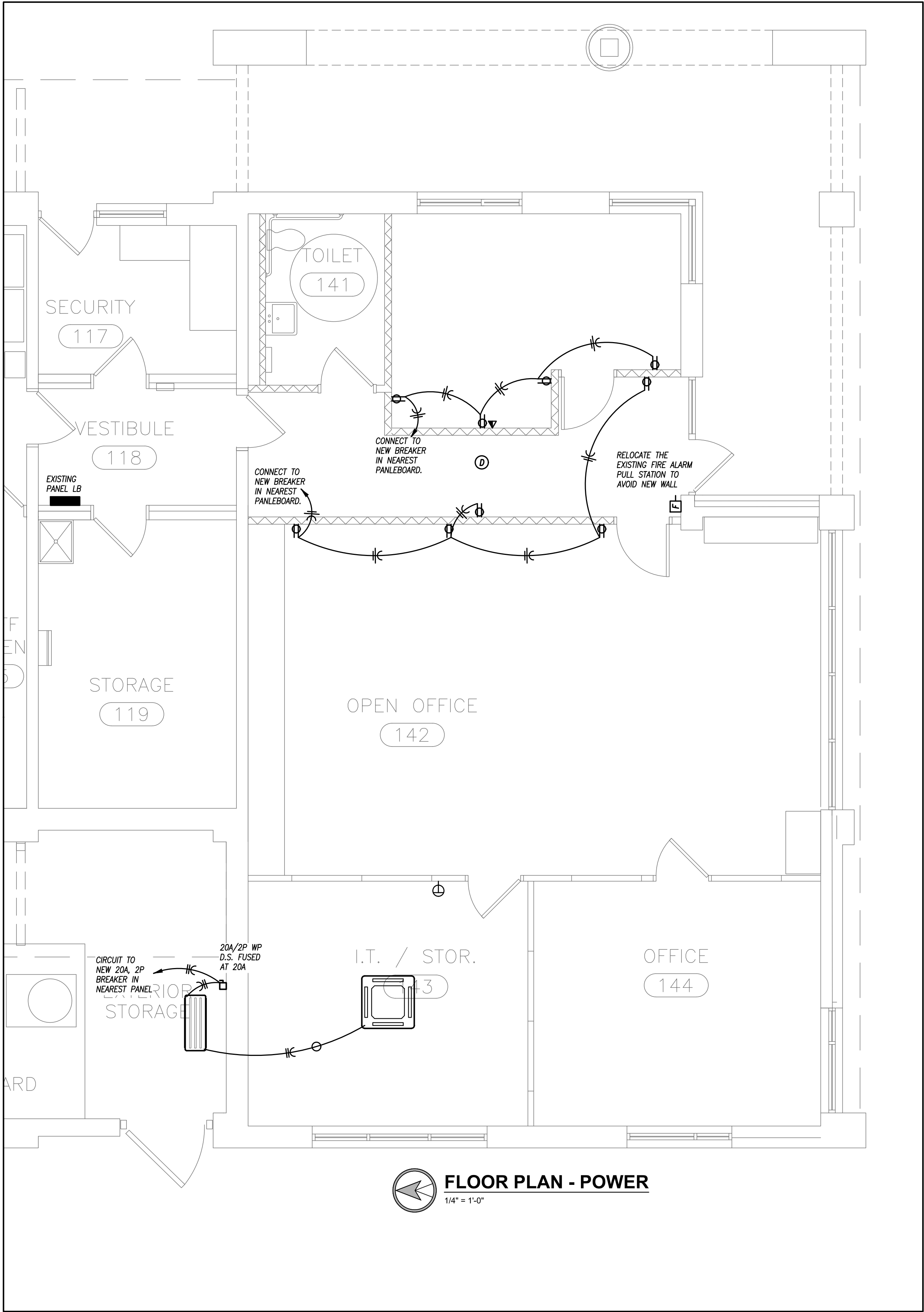
FIRE ALARM ACTIVATION DEVICES (PULL STATION)
LOCATE FRONT-APPROACH DEVICES SO THAT THE HIGHEST OPERABLE PORTION OF THE DEVICE IS NOT MORE THAN 48" A.F.F. (ADA 2010) AND NOT LESS THAN 42" A.F.F. (NFPA).

POWER/COMMUNICATION DEVICES:
OUTLETS SHALL BE LOCATED AT 16" A.F.F. TO THE BOTTOM OF THE BOX. ABOVE COUNTER DEVICES SHALL BE LOCATED AT 2" ABOVE THE BACKSPLASH OF THE COUNTER TO THE BOTTOM OF THE DEVICES. VERIFY WITH ARCHITECTURAL DETAILS.

WALL-MOUNTED OPERABLE DEVICES:
OPERABLE DEVICES SHALL BE LOCATED AT 48" A.F.F. TO THE TOP OF THE OPERABLE PORTION OF THE DEVICE.

WALL-MOUNTED OPERABLE DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
LIGHT SWITCHES, DIMMERS, CONTROLS, ETC.
PUSH BUTTONS
NURSE/PATIENT CALL DEVICES (INCLUDING THOSE FOR STAFF USE)
OTHER CONTROL OR "CALL" DEVICES

MOUNTING HEIGHTS FOR WALL-MOUNTED DEVICES
NOT TO SCALE

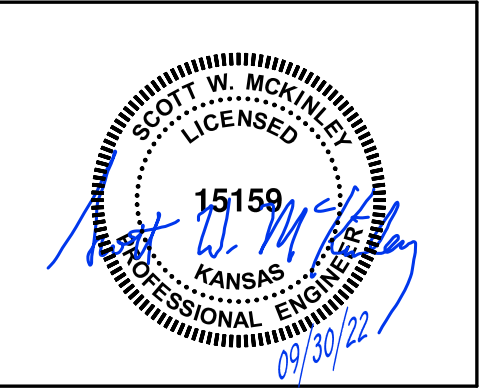


FLOOR PLAN - POWER
1/4" = 1'-0"



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PROJECT NUMBER: **22004**

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POWER PLAN

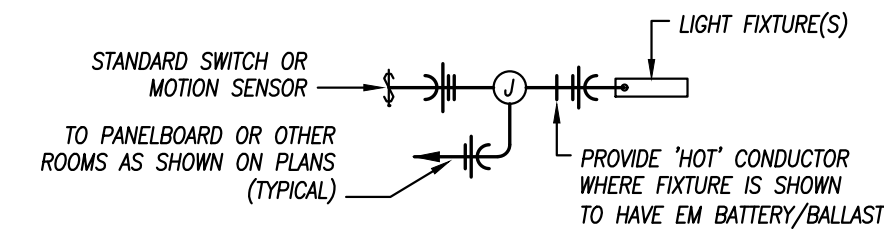
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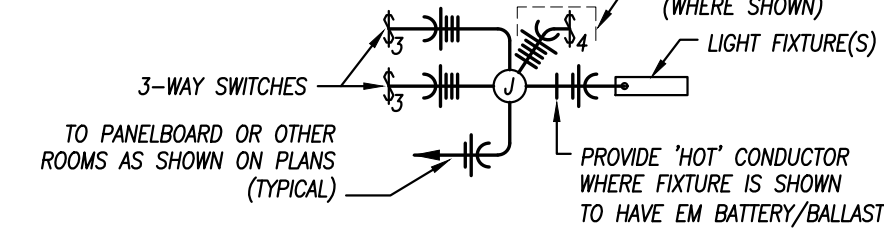
TYPICAL WIRING OF CONTROLS AND LIGHT FIXTURES

THE WIRING AND/OR TIC MARKS SHOWN BELOW ARE NOT SHOWN ON PLANS FOR CLARITY. PROVIDE WIRING FROM JUNCTION BOX(ES) TO SWITCHES/CONTROLLERS AND LIGHTS AS SHOWN BELOW FOR EACH ROOM/AREA.

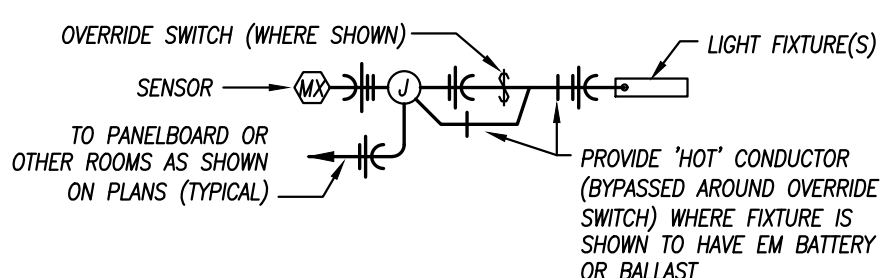
LINE VOLTAGE STANDARD WALL SWITCHES



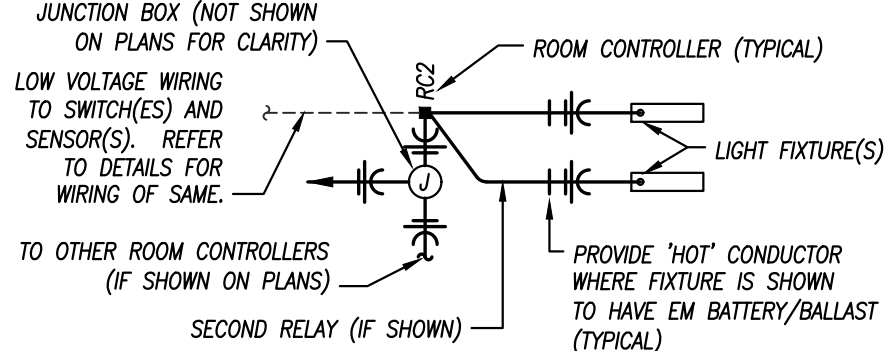
3-WAY WALL SWITCHES



LINE VOLTAGE CEILING SENSORS



ROOM CONTROLLERS / POWER PACKS



ROOM CONTROLLER SCHEDULE

MARK	MANUFACTURER	MODEL	NO.	RELAYS	VOLTAGE
RC01	WATTSTOPPER	LMRC-211	1	DIMMING (0-10V)	120 V
RC02	WATTSTOPPER	LMRC-212	2	DIMMING (0-10V)	120 V
RC1	WATTSTOPPER	LMRC-101	1	ON/OFF	120 V
RC2	WATTSTOPPER	LMRC-102	2	ON/OFF	120 V

LIGHTING CONTROL DEVICE SCHEDULE

MARK	MANUFAC.	MODEL	DESCRIPTION	VOLTAGE
CEILING SENSORS				
ML	WATTSTOPPER	LMDC-100	DUAL-TECHNOLOGY CEILING SENSOR. 24V OPERATION WITH CATS CONNECTION.	24 V
SWITCHES				
LD	WATTSTOPPER	LM3H-100 SERIES	DIGITAL DECORA PUSHBUTTON SWITCH WITH LED PILOT LIGHT. CATS CONNECTION TO CONTROLLER. # REFERS TO QUANTITY OF BUTTONS ON FACE.	24 V
LD1	WATTSTOPPER	LMDM-101	DIGITAL DECORA DIMMING SWITCH WITH LED PILOT AND INDICATING LIGHTS. CATS CONNECTION TO CONTROLLER.	24 V

GENERAL LIGHTING NOTES

- REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
- LIGHT FIXTURES INDICATED AS EMERGENCY FIXTURES ARE TO FUNCTION AS NIGHT LIGHTS UNLESS SPECIFICALLY SHOWN SWITCHED.
- ALL CIRCUITING SHOWN ON THIS PLAN IS DIAGRAMMATIC:
 - ALL FIXTURES SHALL BE FED FROM JUNCTION BOXES WITH LIGHT FIXTURE WHIPS (<6'). DAISY-CHAINING OF FIXTURES IS NOT ALLOWED.
 - SWITCH BOX LOCATIONS SHALL BE WIRED SO THAT A NEUTRAL WIRE IS AVAILABLE AT THE SWITCH BOX LOCATION, EITHER IN THE BOX OR AVAILABLE TO BE ADDED VIA RACEWAY OR AN ACCESSIBLE WALL CAVITY.
 - WALL SWITCHES FOR SEPARATE LOAD TYPES (EM/NORMAL, 120/277V, ETC.) SHALL NOT BE IN A SINGLE BOX.
 - REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

LIGHT FIXTURE SCHEDULE

PLAN MARK	MANUFACTURER/MODEL	MANUFACTURER/MODEL	SIZE	MOUNTING	FINISH	MIN LUMEN/MAX WATTS	CR/ICCT	NOTES
A	LITHONIA LIGHTING	CPX 2X4 AL08 SHW7 M2	2X4	RECESSED	WHITE	3,813 LUMENS/29 WATTS	80/3500K	1
B	WILLIAMS ASM-4-SA-DRV-UNV	CREE CR-LE-1X4-10V	1X4	SURFACE	WHITE	4,000 LUMENS/47 WATTS	82/3500K	1
EM	MULE LTG MRD-HO-12V-12W	DUAL LITE L225N-12V-SW	SURFACE	SURFACE	WHITE	--	--	1,2
X	MULE LIGHTING	NYMD-A-1-R-BA		SURFACE WALL/CEILING	ALUMINUM	LED	--	2

NOTES LEGEND

- PROVIDE DIMMABLE LED DRIVER UNIVERSAL VOLTAGE.
- PROVIDE EMERGENCY BATTERY MINIMUM OF 1000 LUMENS FOR 90 MINUTES.

LIGHTING CONTROLS

SYMBOLS

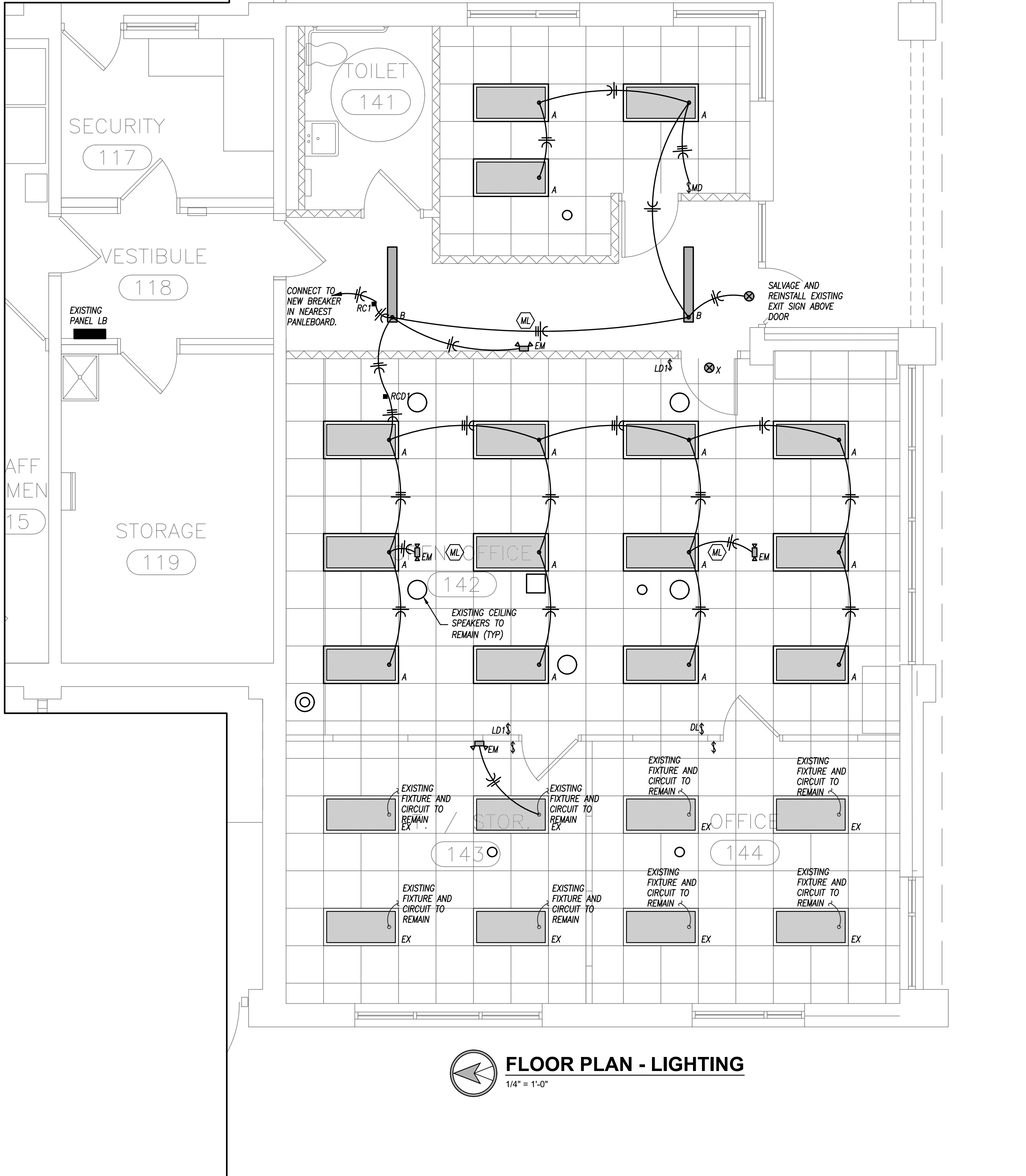
- WM** WALL SWITCH VACANCY SENSOR: PASSIVE INFRARED, 120/277V, WALL SWITCH DECORA STYLE SENSOR. (WATTSTOPPER PW-101, OR EQUAL.)
- SL#** ROOM CONTROLLER LOW VOLTAGE SWITCHES: PUSHBUTTON SWITCHES WITH LED PILOT LIGHT. SINGLE GANG IN DECORA STYLE FACEPLATE WITH UP TO EIGHT (8) CONTROLS. # REFERS TO QUANTITY OF SWITCHES ON FACE. (WATTSTOPPER LMOW SERIES, OR EQUAL.)
- LD** ROOM CONTROLLER LOW VOLTAGE DIMMING SWITCHES: PUSHBUTTON SWITCHES WITH LED INDICATING LIGHTS. SINGLE GANG IN DECORA STYLE FACEPLATE. (WATTSTOPPER LMOW-101)
- WM** CEILING-MOUNTED MOTION SENSORS: DUAL TECHNOLOGY (PASSIVE INFRARED AND ULTRASONIC) LINE VOLTAGE CEILING SENSOR. (WATTSTOPPER DT-355)
- ML** LOW VOLTAGE CEILING-MOUNTED MOTION SENSOR: DUAL TECHNOLOGY (PASSIVE INFRARED AND ULTRASONIC), LOW VOLTAGE, CEILING SENSOR. (WATTSTOPPER DT-300, OR EQUAL.)
- RC#** ROOM CONTROLLER: DIGITAL ON/OFF ROOM CONTROLLER. 120/277V INPUT. # INDICATES NUMBER OF RELAYS (STD 1-2, UNITS SHALL BE GANGED FOR MORE THAN 2 RELAYS/ZONES) (WATTSTOPPER LMRC-100 SERIES, OR EQUAL.)
- RC#** ROOM CONTROLLER: DIGITAL ON/OFF 0-10V DIMMING ROOM CONTROLLER. 120/277V INPUT. # INDICATES NUMBER OF RELAYS (STD 1-3, UNITS SHALL BE GANGED FOR MORE THAN 3 RELAYS/ZONES) (WATTSTOPPER LMRC-200 SERIES OR EQUAL.)

TRAINING AND PROGRAMMING

- OWNER TRAINING:**
 - PROVIDE FACTORY REPRESENTATIVE TRAINING TO OWNER FOR EACH LIGHTING CONTROL SYSTEM UTILIZED, INCLUDING PROGRAMMING FOR SCHEDULING AND OPERATION OF EACH ROOM PER OWNER DIRECTION.
 - PROVIDE RECORD OF TIME DELAY SETTINGS ON ALL SENSOR DEVICES FOR OWNER USE.
- SENSOR ADJUSTMENTS AND SETTINGS:**
 - SYSTEMS SHALL BE SET/PROGRAMMED TO OPERATE TYPICALLY IN MANUAL ON/AUTO OFF MODE.
 - SET WALL MOUNTED MOTION SENSOR TO MANUAL ON MODE.
 - SET POWER PACKS AND ROOM CONTROLLERS CONTROLLED BY MOTION SENSORS TO MANUAL ON AND CONTROL WITH MOMENTARY WALL SWITCH.
 - PROVIDE FINAL SETTINGS/ADJUSTMENTS PER OWNER'S DIRECTION.

CONTROLS SEQUENCES

- WALL-MOUNTED LINE VOLTAGE SENSORS:**
 - TURN ON LIGHTS IN ROOM/AREA UPON BUTTON ON SENSOR BEING ACTIVATED BY OCCUPANT.
 - TURN OFF LIGHTS AFTER NO MOTION IS DETECTED AND DELAY EXPIRES.
- OPEN OFFICE:**
 - MANUAL ON/OFF AND DIMMING CONTROL OF LIGHTING VIA DIMMING SWITCHES.
 - TURN OFF LIGHTS AFTER NO MOTION IS DETECTED AND DELAY EXPIRES.
 - SWITCHES ARE TO BE LOCATED AT EACH DOOR.
 - EACH SWITCH IS TO FUNCTION AS A THREE-WAY SWITCH IN CONJUNCTION WITH THE SWITCH SERVING SAME LOAD AT THE OTHER DOOR IN THE ROOM.



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LIGHTING PLAN

E200

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