ECHELON MAINT. AREA

3500 SW HLLYWOOD DRIVE LEE'S SUMMIT, MO 64082

PERMIT SET

31 AUGUST 2020

COLLINS WEBB #: 20050



OWNER

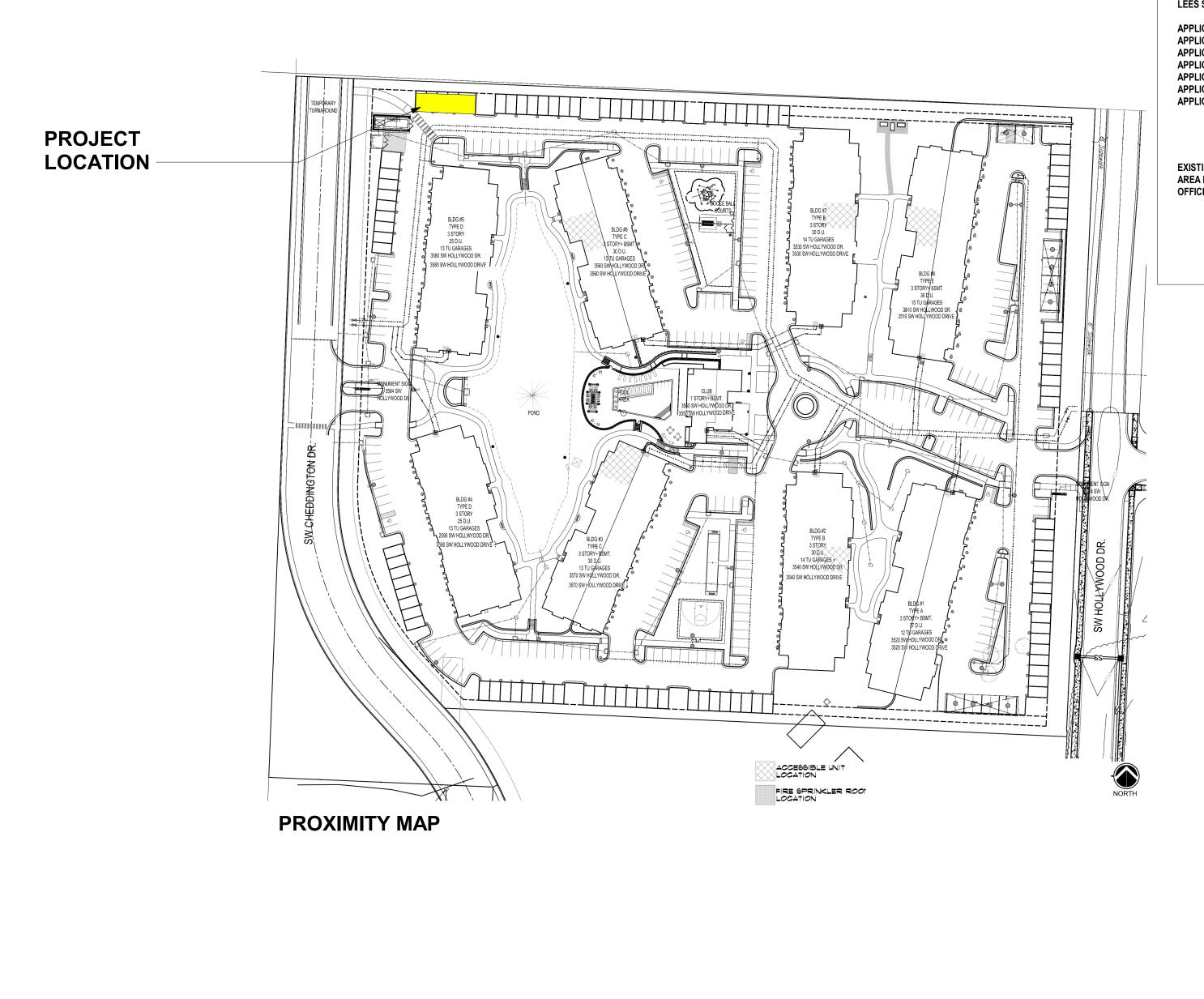
RESIDENCES AT ECHELON APARTMENTS 3500 SW HOLLYWOOD DRIVE LEE'S SUMMIT, MO 64082 P: 816.319.0601

ARCHITECT

COLLINS | WEBB ARCHITECTURE 13A SW 3RD STREET LEE'S SUMMIT, MISSOURI 64063 P: 816.249.2270 www.collinsandwebb.com

MEP ENGINEER

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PROVIDE REQUIRED INSULATION -

EXISTING MANUAL GARAGE DOORS TO REMAIN —

EXISTING GARAGE

NEW HVAC —

EXISTING GARAGE

NEW ELECTRICAL

EXISTING 5 BAY GARAGE -

EXISTING TO REMAIN

EXISTING TO REMAIN

GENERAL DESCRIPTION

PROJECT NAME: ECHELON MAINTANENCE AREA PROJECT LOCATION: LEE'S SUMMIT, MO

COLLINS WEBB ARCHITECTURE 13A SW 3RD STREET LEES SUMMIT, MISSOURI 64063

> APPLICABLE BUILDING CODE: APPLICABLE PLUMBING CODE: APPLICABLE MECHANICAL CODE: APPLICABLE ELECTRICAL CODE:

2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL BUILDING CODE PLUMBING 2018 INTERNATIONAL BUILDING CODE MECHANICAL APPLICABLE FIRE CODE:

APPLICABLE FUEL GAS CODE: APPLICABLE ACCESSIBILITY CODE:

2017 NATIONAL ELECTRICAL CODE 2018 INTERNATIONAL FIRE PREVENTION CODE 2018 INTERNATIONAL FUEL GAS CODE ICC/ANSI A117.1-2009, ACCESSIBLE AND USABLE BUILDINGS AND FACILTIES

EXISTING WOOD FRAMED ENCLOSED GARAGES BEING USED FOR MAINTENANCE AREA FOR ON-SITE STAFF TO SUPPORT DAILY WORK SPACE. NOT PERMANENT OFFICE, BUT STORAGE FOR EQUIPMENT AND SUPPLIES.

ARCHITECTURAL & MEP

SHEET NO.	SHEET NAME
A101	1ST FLOOR PLAN
ME001	SPECIFICATION AND DETAILS
ME101	FLOOR PLANS AND SCHEDULES

GENERAL NOTES: FLOOR PLANS

- 1. SEE GENERAL ARCHITECTURAL SHEETS FOR ADDITIONAL NOTES AND DETAILS THAT ARE APPLICABLE.
- 2. ARCHITECTURAL ELEVATION 100'-0"
- 3. DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF GYP. BOARD/ WALL (FOG), FACE OF MASONRY
- (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
- 4. NOTE: WALL THICKNESSES ARE ACTUAL DIMENSIONS AND PER WALL TYPES. SEE GENERAL SHEETS. 5. DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE
- CENTERED IN WALL SHOWN OR LOCATED 4 INCHES FROM FINISH WALL TO HINGE SIDE OF THE DOOR, ALWAYS ALLOWING A MINIMUM OF 18" FROM THE PULL SIDE (STRIKE SIDE) OF THE DOOR TO THE INTERSECTING

WALL, OR OTHER PROTRUDING OBJECTS.

COLLINS WEBB ARCHITECTURE, LLC

REVISION DATES:

PROFESSIONAL SEAL

COLLINS WEBB #: 20050 1ST FLOOR PLAN

A10 5 BAY GARAGE PLAN 1/4" = 1'-0"

EXISTING TO REMAIN

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 FOLIPMENT FNCLOSURES WHERE REQUIRED. C. OBTAIN & PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THIS WORK & SHALL

MAKE ARRANGEMENTS FOR MODIFICATIONS TO ELECTRICAL CONNECTIONS TO BUILDING

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 . WHERE AN ELECTRICAL DEVICE IS REQUIRED BY CODE BUT NOT SHOWN, IT SHALL BE PROVIDED AS THOUGH FULLY SHOWN & SPECIFIED.

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. WARRANT 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.

SECTION 16100 - CONDUIT & CONDUCTORS A. FOLLOW CIRCUITING SHOWN ON PLANS. USE NO CONDUIT SMALLER THAN 1/2" & NO CONDUCTORS SMALLER THAN #12 GA. UNLESS NOTED OTHERWISE.

B. WIRE SHALL BE IN NON-FLEXIBLE METALLIC CONDUIT (EMT. IMC OR RMC) FOR ALL CIRCUITS AND FEEDERS GREATER THAN 30A, LIGHT SWITCH RISERS, KITCHEN CIRCUITS

C. MC CABLE ACCEPTABLE FOR BRANCH CONVENIENCE CIRCUITS AND LIGHTING CIRCUITS. DO NOT DAISY CHAIN LIGHT FIXTURES. PROVIDE HEALTH CARE RATED MC FOR MEDICAL TREATMENT AREAS WHEN NOT IN CONDUIT

D. CONDUIT INSTALLED BELOW GRADE SHALL BE SCHEDULE 80 PVC HEAVY WALL PLASTIC CONDUIT MEETING NEMA STANDARDS & UL LISTED FOR UNDERGROUND & EXPOSED USE. PROVIDE GRS RADIUS BENDS & RISERS AS CONDUITS RISE ABOVE GRADE OR ABOVE FLOOR SLAB.

. PROVIDE INTERLOCKING SPACERS FOR MULT RUNS OF UG CONDUITS IN SAME TRENCH. F. LIGHTING & RECEPTACLE CIRCUIT CONDUCTORS SHALL BE COPPER THWN/THHN 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 MANUF RECOMMENDED

G. CIRCUITS W/ NO. 8 OR LARGER CONDUCTORS, MOTOR CIRCUITS, POWER & FEEDER CIRCUITS & BUILDING SERVICE FEEDERS SHALL BE COPPER THWN/THHN 600 VOLT, H. ALL CONDUIT, JUNCTION BOXES, ETC. ABOVE CEILINGS SHALL BE SUPPORTED FROM

STRUCTURE. PIPE SLEEVES, HANGERS & SUPPORTS SHALL BE FURNISHED & SET & CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER & PERMANENT LOCATIONS.

SECTION 16200 - GROUNDING A. SUPPLEMENT GROUNDED NEUTRAL OF SECONDARY DISTRIBUTION SYSTEM W/ EQUIPMENT GROUNDING SYSTEM, INSTALLED SO THAT METALLIC STRUCTURES, ENCLOSURES, RACEWAYS, JUNCTION BOXES, OUTLET BOXES, CABINETS, MACHINE FRAMES. PORTABLE FOUIPMENT & 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

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, SWITCHBOARD, OR OTHER DISTRIBUTION EQUIPMENT.

METALLIC WATER SERVICE ENTRANCE & CONNECT BY MEANS OF ADEQUATE GROUND

. 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 PHASE & NEUTRAL CONDUCTORS & GREEN GROUND CONDUCTOR INSTALLED IN

COMMON CONDUIT WHICH SHALL SERVE AS GROUNDING CONDUCTOR. GROUNDING CONDUCTORS SHALL BE AS SHOWN ON PLANS OR IF NOT SPECIFICALLY SHOWN SHALL BE NO SMALLER THAN THAT REQUIRED BY NEC.

<u>SECTION 16300 — ELECTRICAL EQUIPMENT</u>

A. JUNCTION BOXES & OUTLET BOXES SHALL BE GALVANIZED KNOCKOUT TYPE. LIGHTING FIXTURE BOXES IN CEILINGS SHALL NOT BE LESS THAN 4" OCTAGONA KNOCKOUT TYPE. OUTLETS SHALL BE INSTALLED IN LOCATIONS SHOWN ON DRAWINGS EXCEPT OUTLETS MAY BE MOVED 4 FEFT IN FITHER DIRECTION IF SO DIRECTED. WITHOUT ADDITIONAL COST. BOXES SHALL BE FLUSH MOUNTED ON WALLS FOR CONCEALED WORK. GANGABLE BOXES SHALL BE USED IN ALL GYPBOARD SURFACES.

A. BRANCH CIRCUIT 208/240V PANELS SHALL BE CAPACITY SHOWN W/ TIN PLATED COPPER BUSSING & BRACED FOR MINIMUM OF 10,000A AIC OR AS OTHERWISE NOTED OR REQUIRED (SERIES RATED ACCEPTABLE). BOLT ON CIRCUIT BREAKERS. 480V PANELS SAME EXCEPT 14,000A AIC MIN. MINIMUM 20" WIDE W/ GALV STEEL ENCLOSURE W/ HINGED DOOR & KEYED LOCK. COORD TRIM WITH MOUNTING LOCATION. PANELS TO BE RECESSED WHENEVER POSSIBLE

B. DISTRIBUTION PANELS SHALL BE CAPACITY SHOWN & SHALL BE SQUARE D I—LINE W/ TIN PLASTED COPPER BUSSING. 65KAIC MIN OR AS OTHERWISE NOTED/REO'D. BOLT ON CIRCUIT BREAKERS (SERIES RATED ACCEPTABLE). GALV STEEL ENCLOSURE. C. EQUIVALENT BY SQUARE D, SIEMENS, CUTLER HAMMER, OR GE.

<u>SECTION 16350 — ELECTRICAL IDENTIFICATION</u>
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 D. BRANCH CIRCUITS - IDENTIFY EACH CIRCUIT W/ WIRE MARKERS WHEN ENCLOSURE LABEL AND WIRE COLORS DO NOT PROVIDE ENOUGH INFORMATION TO IDENTIFY EACH CIRCUIT WITHOUT TRACING. FEEDERS & BRANCH CIRCUIT HOME RUNS W/ WIRE MARKER W/ PANEL & CKT #. BOX COVERS ABOVE LAY-IN CEILINGS NEATLY MARKED

W/ INDELIBLE MARKER. <u>SECTION 16400 - WIRING DEVICES</u>

A. CONVENIENCE OUTLETS - SPEC GRADE 20 AMP DUPLEX W/ GROUND & SS WALL PLATES. OTHER OUTLETS SHALL BE VERIFIED W/ EQUIPMENT SUPPLIERS FOR PROPER NEMA CONFIGURATIONS. PROVIDE GFIC RATED DEVICES WHERE INDICATED

B. LIGHT SWITCHES - SPEC GRADE 20 AMP TOGGLE SWITCHES W/ SS WALL PLATES.

C. WALL MOTION SWITCHES - SPEC GRADE, PIR, OVERRIDE. D. WALL MOTION SWITCHES (BATHROOM) - DUAL RELAY, SPEC GRADE, PIR, 2ND RELAY FOR OPERATION OF EXHAUST FAN DELAY. F. COLOR OF DEVICES AS DIRECTED BY ARCHITECT

F. EQUIVALENT DEVICES BY LEVITON, BRYANT, HUBBEL, WATTSTOPPER, LITHONIA, SENSOR

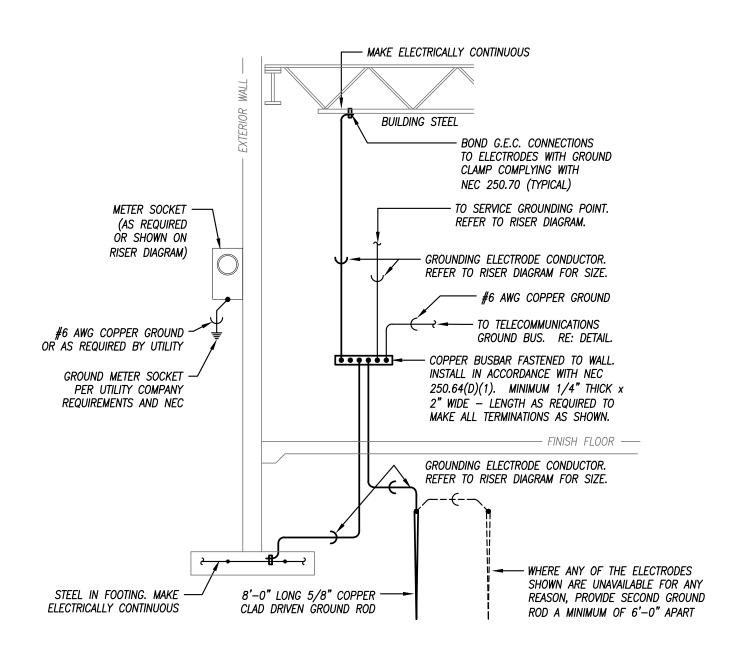
A. ALL OUTLETS. SHALL BE MOUNTED W/ BOTTOM AT 18" AFF & SWITCHES W/ BOTTOM AT 44" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE ON PLANS. REFER TO ARCH FOR OTHER REQUIRED ELEVATIONS AND CABINETRY COORDINATION

<u>SECTION 16500 — LUMINAIRES, LAMPS & BALLASTS</u>

A. PROVIDE LIGHTING FIXTURES W/ LAMPS & ACCESSORIES REQ'D FOR HANGING. COORD MOUNTING OF LIGHTING FIXTURES W/ ARCHITECT & G/C. ADDITIONAL FIXTURE SUPPORTS SHALL BE PROVIDED BY E/C. SUPPORTS SHALL COMPLY W/ LATEST EDITION OF NEC. PROVIDE LIGHTING FIXTURE SECURING CLIPS AS REQUIRED. CONSULT ARCH PLANS FOR CEILING TYPES & PROVIDE SURFACE & RECESSED LIGHTING FIXTURES W/ APPROPRIATE MOUNTING COMPONENTS & ACCESSORIES

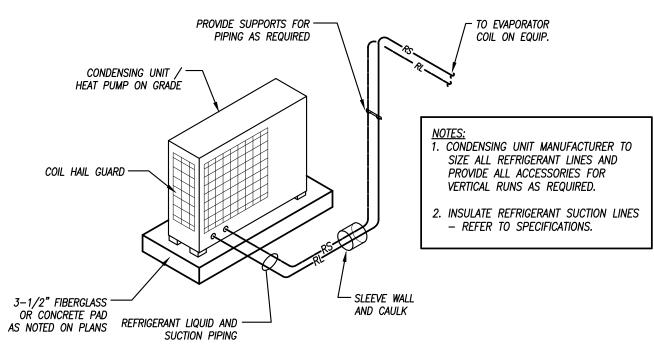
B. REFER TO LIGHTING FIXTURE SCHEDULE PLANS FOR FIXTURE TYPES. C. EQUIVALENT LUMINAIRES BY HUBBELL, INFINITY, LITHONIA, WILLIAMS, COLUMBIA, EXITRONICS, LITEALARM, EXIDE.

A. LAMPS SHALL BE TYPE RECOMMENDED BY FIXTURE MANUF. LAMP NONE ABOVE MANUF RECOMMENDED MAX WATTAGE. B. EQUIVALENT LAMPS BY G.E., VENTURE, PHILLIPS OR SYLVANIA. C. PROVIDE ASSOCIATED DIRVER WITH LED FIXTURES.



ELECTRICAL SERVICE GROUNDING DETAIL NOT TO SCALE

ELECTRICAL SYMBOL LEGEND CIRCUITING POWER DEVICES HOME RUN (2#12 1#12G UNO) \bigcirc DUPLEX RECEPTACLE. INDICATES 2 PHASE, 1 N, & 1 GRD CONDUCTOR LINE THRU DEVICE INDICATES ABOVE COUNTER SPECIAL DUPLEX RECEPTACLE HOME RUN: INDICATES SHARED CIRCUIT (GFCI, ISOLATED GROUND, ETC.) HOME RUN: INDICATES #10 CONDUCTORS ENTIRELY QUADPLEX RECEPTACLE SIMPLEX RECEPTACLE W/NEMA CONFIG AS NOTED <u>UTILITIES</u> ---- UGE --- UNDERGROUND ELECTRICAL MULTI-POLE RECEPTACLE W/NEMA CONFIG AS NOTED ---- OHE ---- OVERHEAD ELECTRICAL CEILING MOUNTED RECEPTACLE ф ---- TELE ---- TELECOMMUNICATIONS CONDUIT ---- UGT --- UNDERGROUND TELECOMMUNICATIONS CONDUIT JUNCTION BOX \Box H PUSH BUTTON <u>IGHTING</u> GRID-MOUNTED TROFFER LIGHT FIXTURE <u>EQUIPMENT</u> STRIP LIGHT FIXTURE ᄜ DISCONNECT SWITCH. RE: PLANS FOR INFORMATION. SURFACE/RECESSED LIGHT FIXTURE MAGNETIC MOTOR STARTER WALL-MOUNTED LIGHT FIXTURE COMBINATION DISCONNECT SWITCH / MOTOR STARTER POLE-MOUNTED LIGHT FIXTURE TOGGLE-TYPE DISCONNECT. FURNISH WITH THERMAL ⊢⊗ ⊗ EXIT LIGHT MOTOR PROTECTION WHERE SERVING FANS/PUMPS. BATTERY-OPERATED EMERGENCY LIGHT (WALL MTD) SURFACE PANELBOARD BATTERY-OPERATED EMERGENCY LIGHT (CEILING MTD) RECESSED PANELBOARD WALL-MOUNTED COMBINATION EXIT LIGHT/ DISTRIBUTION PANELBOARD BATTERY-OPERATED EMERGENCY LIGHT LIGHT SWITCH - SINGLE POLE SWITCHBOARD. FEEDER/MAIN CIRCUIT BREAKER SECTION AND DISTRIBUTION SECTION. LIGHT SWITCH - 3-WAY LIGHT SWITCH - 4-WAY



MINI SPLIT CONDENSING UNIT / HEAT PUMP DETAIL NOT TO SCALE

15000 - MECHANICAL SPECIFICATIONS

<u>SECTION 15000 - MECHANICAL REQUIREMENTS</u> GENERAL REQUIREMENT

A. ALL WORK SHALL BE IN ACCORDANCE W/ LATEST EDITION OF INTERNATIONAL BUILDING. MECHANICAL & PLUMBING CODES. CODES AS ADOPTED BY CITY, COUNTY, STATE & ALL OTHER APPLICABLE CODES.

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. OBTAIN & PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THIS WORK & SHALL

MAKE ARRANGEMENTS FOR MODIFICATIONS TO WATER. GAS & SEWER CONNECTIONS TO BUILIDNG AS REQUIRED. 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.

FINAL ACCEPTANCE OF WALL 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. WARRANT 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. 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.

I. ROOF PENETRATIONS — MADE BY AUTHORIZED ROOFING CONTRACTOR WHEN REQUIRED

. 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

A. REFRIGERANT PIPING – COPPER TUBE TYPE ACR, HARD TEMPER NITROGENIZED REFRIGERANT TUBE, ASTM B-88. TYPE L OR K. BRAZED JOINTS. INSULATE W/ ARMAFLEX IN THICKNESS PER ASHRAE 90.1. PROVIDE EXTERIOR RATED OR COATED

. CONDESATAE PIPING — ALL PIPING SHALL BE 95—5 TIN—ANTIMONY JOINED TYPE L COPPER. INSULATE W/ FIBERGLASS W/ ASJ & PVC COVERS. THINCKNESS IN ACCORDANCE W/ ASHRAE 90.1. OR SCHED 40 PVC W/ SOLVENT WELDS MAY BE USED WHERE ALLOWED BY LOCAL CODE.

. MINI—SPLIT FAN COIL, & HEAT PUMP UNITS AS SCHEDULED. PROVIDE WALL MOUNTED FAN COIL WITH WIRED WALL MOUNTED THERMOSTAT, AND HEAT PUMP IBY SAME MANUFACTURER. EQUIVALENT BY DAIKIN, LQ, MITSUBISHI, LENNOX, YORK, CARRIER. CONTRACTOR SHALL ROUTE REFRIGERANT PIPING FROM INDOOR FAN COIL TO OUTDOOR HEAT PUMP. REFER TO MANUFACTURER'S RECOMMENDATION FOR PIPE SIZING BASED ON CAPACITY AND PIPE LENGTHS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR

A. COORDINATE W/ E/C TO PROVIDE ALL WIRING BETWEEN EQUIPMENT, THERMOSTATS & ALL OTHER REQUIRED CONTROLS & DEVICES. PROVIDE ANY REQUIRED INTERFACES TO FIRE ALARM OR SIMILAR SYSTEMS.

. PROVIDE GROUND-MOUNTED UNITS ON 4", REINFORCED CONCRETE BASE, 4" LARGER THAN UNIT ON EACH SIDE.

CEILING-MOUNTED HORN OR HORN/STROBE FINISH CEILING CEILING-MOUNTED DETECTOR -DO NOT PLACE -DETECTOR IN STROBE THIS AREA WALL-MOUNTED DETECTOR — WALL-MOUNTED OPERABLE DEVICES PULL STATION BACKSPLASH - ABOVE COUNTER DEVICES. SEE NOTES. COORDINATE WITH ARCH. ELEVATIONS AND CABINETRY SHOP DRAWINGS. – POWER/COMMUNICATIONS DEVICES AND CATV OUTLET DEVICES AND — MOUNTING BRACKETS SYSTEMS FURNITURE OUTLETS FINISH FLOOR

<u>GENERAL NOTES:</u>
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

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.E.E. (NEPA) 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

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.

NOT TO SCALE

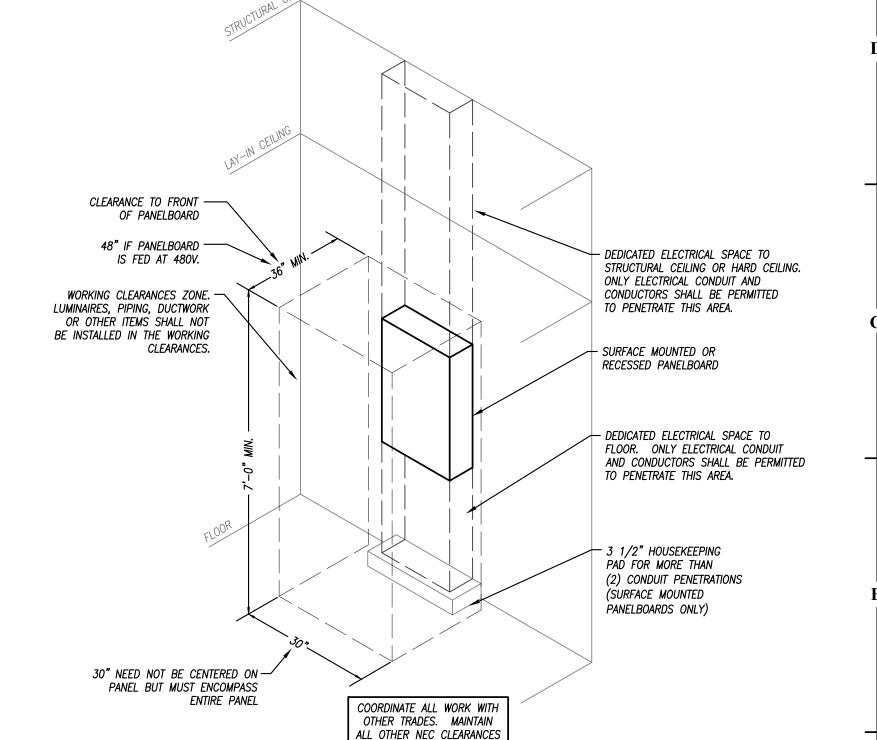
THAN 90" A.F.F. AND NOT LESS THAN 6" BELOW CEILING

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. NURSE/PATIENT CALL DEVICES (INLUDING THOSE FOR OTHER CONTROL OR "CALL" DEVICES

MOUNTING HEIGHTS FOR WALL-MOUNTED DEVICES



TYPICAL PANELBOARD INSTALLATION DETAIL

AND REQUIREMENTS.

COORDINATION NOTES COORDINATE REQUIREMENTS FOR INSTALLATION OF SYSTEMS

AND EQUIPMENT WITH ALL OTHER TRADES. ME001 Mechanical/Electrical/Plumbing - Specifications and Details

2. THE CONTRACTOR SHALL COORDINATE THE ROUTING AND PATH OF ALL SYSTEMS, CONDUITS, PIPES, DUCTS, ETC WITH THE POSITION AND LAYOUT OF THE STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY OFFSETS, TURNS, RISES AND DROPS FOR SYSTEMS AND COMPONENTS AS NEEDED TO INSTALL THE MEP SYSTEMS TO CLEAR STRUCTURE, CEILINGS, ETC AND OTHER SYSTEMS IN POTENTIAL CONFLICT WITH ROLLTING

3. COORDINATE WORK WITH OTHER TRADES TO INSTALL SYSTEMS ABOVE CEILING HEIGHTS INDICATED ON ARCHITECTURAL PLANS. . CHECK SPACE REQUIREMENTS WITH OTHER TRADES AND STRUCTURE/CONSTRUCTION TO ENSURE THAT ALL MATERIALS AND EQUIPMENT CAN BE INSTALLED IN THE SPACE ALLOTTED INCLUDING FINISHED SUSPENDED CEILINGS AND OTHER SPACES. CHASES. ETC WITHIN THE BUILDING. MAKE MODIFICATIONS THERETO AS REQUIRED AND APPROVED.

TRANSMIT TO OTHER TRADES ALL INFORMATION REQUIRED FOR WORK TO BE PROVIDED UNDER THEIR RESPECTIVE SECTIONS IN AMPLE TIME FOR INSTALLATION.

4. ALL EQUIPMENT AND ACCESSORIES INSTALLED IN CONCEALED SPACES REQUIRING ACCESS SHALL BE PROVIDED WITH ACCESS DOORS WHEREVER WORK INTERCONNECTS WITH WORK OF OTHER MEETING ANY FIRE REQUIREMENTS OF THE WALL/CEILING THEY ARE TRADES, COORDINATE WITH THOSE TRADES TO ENSURE THAT ALL SUBCONTRACTORS HAVE THE INFORMATION NECESSARY SO 5. EACH AIR HANDLING UNIT OVER 2000CFM SHALL BE PROVIDED WITH THAT THEY MAY PROPERLY INSTALL ALL CONNECTIONS AND A SMOKE DETECTOR TO SHUT DOWN THE UNIT PER IMC 606 AS EQUIPMENT. IDENTIFY ALL ITEMS OF WORK THAT REQUIRE ACCESS SO THAT THE CEILING TRADE WILL KNOW WHERE TO REQUIRED BY AHJ. COORDINATE WITH OTHER TRADES.

6. START UP AND ADJUST ALL FQUIPMENT AND VERIFY ALL MECHANICAL INSTALL ACCESS DOORS AND PANELS. SYSTEMS IN OPERATE IN ACCORDANCE WITH THEIR INTENDED COORDINATE, PROJECT AND SCHEDULE WORK WITH OTHER PURPOSES. SUBMIT BALANCE AND START UP REPORTS TO THE A/E. TRADES IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE. REFER TO SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS. . DRAWINGS SHOW THE GENERAL RUNS OF CONDUITS, PIPING AND DUCTWORK AND APPROXIMATE LOCATION OF OUTLETS. ANY SIGNIFICANT CHANGES IN LOCATION OF ITEMS NECESSARY IN

ORDER TO MEET FIELD CONDITIONS SHALL BE BROUGHT TO **GENERAL ELECTRICAL NOTES** THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER AND RECEIVE HIS APPROVAL BEFORE SUCH ALTERATIONS ARE MADE. . COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ALL SUCH MODIFICATIONS SHALL BE MADE WITHOUT ADDITIONAL LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, COST TO THE OWNER. . CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND 2. COORDINATE LOCATIONS OF RECEPTACLES, SWITCHES, ETC. WITH REPAIR OF SURFACES. AREAS AND PROPERTY THAT MAY BE

ARCHITECTURAL CASEWORK AND FLEVATIONS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES. 3. REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING HEIGHTS OF D. ADJUST LOCATION OF PIPING, DUCTWORK, ETC. TO PREVENT ALL DEVICES NOT INDICATED OTHERWISE. INTERFERENCES, BOTH ANTICIPATED AND ENCOUNTERED. 4. PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS AND BUSHED DETERMINE THE EXACT ROUTE AND LOCATION OF EACH ITEM

PRIOR TO FABRICATION. MAKE OFFSETS, TRANSITIONS AND 5. CONTRACTOR SHALL CONCEAL ALL CONDUIT, FITTINGS, AND DEVICES CHANGES IN DIRECTION IN SYSTEMS AS REQUIRED TO MAINTAIN

FROM VIEW WHERE REASONABLY POSSIBLE. ADEQUATE CLEARANCES AND HEADROOM. WHEREVER THE WORK IS OF SUFFICIENT COMPLEXITY. PREPARE ADDITIONAL COORDINATION DRAWINGS AND ORGANIZE ON-SITE **MECHANICAL SYMBOL LEGEND** MEETINGS WITH ALL RELATED SUBCONTRACTORS TO COORDINATE

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED **MECHANICAL**

LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.

PIPING SYMBOLS

-

—ю PIPING ELBOW UP ----- PIPING ELBOW DOWN PIPING TEE

THERMOSTAT

PIPING ELBOW

SHEET INDEX

ME101 Mechanical/Electrical - Site Plan and Schedules

GEN. MECHANICAL NOTES

LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ

PROVIDED BY THE M/C CONTRACTOR OR SUBS.

AND FASTENED FROM STRUCTURE.

INSTALLED.

. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE

2. ANY POWER FOR CONTROL SYSTEMS TO BE PROVIDED BY E/C IS

LATEST ADOPTED VERSION OF THE INTERNATIONAL MECHANICAL CODE,

INDICATED ON ELECTRICAL PLANS. ANY ADDITIONAL LINE VOLTAGE

OR LOW VOLTAGE POWER REQUIRED BY THE M/C OR

SUBCONTRACTORS TO HAVE A FULLY FUNCTIONING SYSTEM SHALL BE

3. ALL EQUIPMENT SHALL BE ADEQUATELY AND PROPERLY SUPPORTED

GENERAL NOTES

ACCOMPLISH THE WORK.

CLARIFYING PLAN. REFER TO ARCHITECTURAL PLANS FOR REFERENCE TO ROOM NAMES NOT SHOWN. 2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND KEEP AT THE JOB SITE, AN UP TO DATE SET OF "RECORD DRAWINGS" SHOWING ALL CHANGES FROM THE ORIGINAL PLANS. THE CONTRACTOR SHALL DELIVER THE "RECORD DRAWINGS" TO THE ENGINEER AT THE CONCLUSION OF THE PROJECT ELECTRONICALLY.

THE WORK BETWEEN TRADES . DRAWINGS SHALL CLEARLY

TRADES, AND BE SUBMITTED FOR REVIEW PRIOR TO

COMMENCING SHOP FABRICATION OR ERECTION IN THE FIELD.

2. COORDINATE WITH LOCAL UTILITY PROVIDERS FOR THEIR

REQUIREMENTS FOR SERVICE CONNECTIONS AND PROVIDE ALL

NECESSARY PAYMENTS, MATERIALS, LABOR AND TESTING TO

3. COORDINATE THE MOUNTING OF SUSPENDED LIGHT FIXTURES

UTILIZING INDIRECT LIGHT SO THAT CONDUIT, DUCTWORK,

ABOVE THE LIGHT FIXTURE. MAINTAIN A MINIMUM OF 24"

SOME ROOM NAMES MAY NOT BE SHOWN FOR PURPOSE OF

STRUCTURAL MEMBERS, ETC. ARE NOT LOCATED DIRECTLY

CLEARANCE FROM THESE ITEMS WHENEVER POSSIBLE.

SHOW THE WORK AND ITS RELATION TO THE WORK OF OTHER

VERIFY ALL CONDITIONS (NEW AND EXISTING), DIMENSIONS, AND CLEARANCES PRIOR TO THE COMMENCEMENT OF WORK AND SHALL INCLUDE ALL COSTS, EQUIPMENT, MATERIAL, ACCESSORIES, ETC. REQUIRED FOR A FULLY COMPLETE, FUNCTIONAL AND CODE COMPLIANT INSTALLATION. 4. FINAL LOCATIONS OF ALL DEVICES, LIGHT FIXTURES, EQUIPMENT ETC SHALL BE INDICATED ON THE ARCHITECTURAL DRAWINGS.

3. THESE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHA

ALL DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM ARCHITECTURAL PLANS. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM MEP DRAWINGS. 5. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, APPROVALS, LICENSES, ETC. AS NEEDED FOR THE COMPLETE

INSTALLATION AND PROJECT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR ALL FEES AND DATA NEEDED FOR THIS.

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REVISION DATES:

GEN. RENOVATION NOTES

DISCONNECT AND REMOVE ANY EQUIPMENT, PIPING OR DUCTWORK HAT WAS INSTALLED AS PART OF THE BUILDING SHELL THAT NOT NEEDED OR CONFLICTS WITH THIS BUILD OUT. P. EXISTING UNDERGROUND PIPING LOCATIONS ARE ESTIMATED BASEL UPON ANTICIPATED ROUTINGS. FIELD VERIFY EXACT LOCATIONS

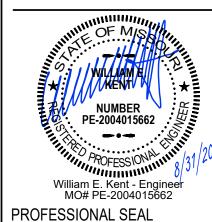
DURING CONSTRUCTION AND PROVIDE ALL NECESSARY

MODIFICATIONS. . SAWCUT GRADE FLOOR SLABS TO INSTALL NEW PIPING MECHANICAL SYSTEMS, ELECTRICAL FLOOR BOXES AND ALI ASSOCIATED CONDUIT, ETC. PATCH FLOOR TO MAKE LIKE NEW AFTER INSTALLATION. TAKE CARE TO LOCATE EXISTING CONDUIT ETC AND AVOID CUTTING EXISTING CONDUITS BY NO OVER-CUTTING SLAB DEPTH.

SAWCUT AND CORE DRILL OPENINGS AS REQUIRED FOR ABOVE GRADE SLAB PENETRATIONS. X-RAY SLABS TO ASCERTAIN STEEL AND EXISTING CONDUIT PENETRATIONS PRIOR TO CUTTING VERIFY OPENINGS WITH STRUCTURAL ENGINEER PRIOR TO CUTTING. . HOMERUN CIRCUITS TO 20 AMP, SINGLE POLE BREAKERS II PANELBOARDS INDICATED. UTILIZE SPARE BREAKERS MADE AVAILABLE BY DEMOLITION, IF NO SPARE BREAKER IS AVAILABLE PROVIDE NEW BREAKER.

B6. EXISTING CIRCUITING MAY BE RE-USED WHERE POSSIBLE. 17. CONCEAL NEW CIRCUITING IN WALLS WHERE POSSIBLE. FOR NEW DEVICES INSTALLED ON EXISTING SOLID WALLS, CONCEAL CIRCUITING IN WIREMOLD. COORDINATE FINISH AND GENERA ROUTING OF WIREMOLD WITH ARCHITECT TO BE AS CONCEALED AND/OR ROUTED IN A NEAT AND ORGANIZED CONSISTENT B. ALL LIGHTING FIXTURES THAT ARE RELOCATED OR OTHERWISE

AFFECTED BY THE SCOPE OF WORK SHALL BE CLEANED AND RELAMPED.



ISSUE DATE: 31 AUGUST 2020

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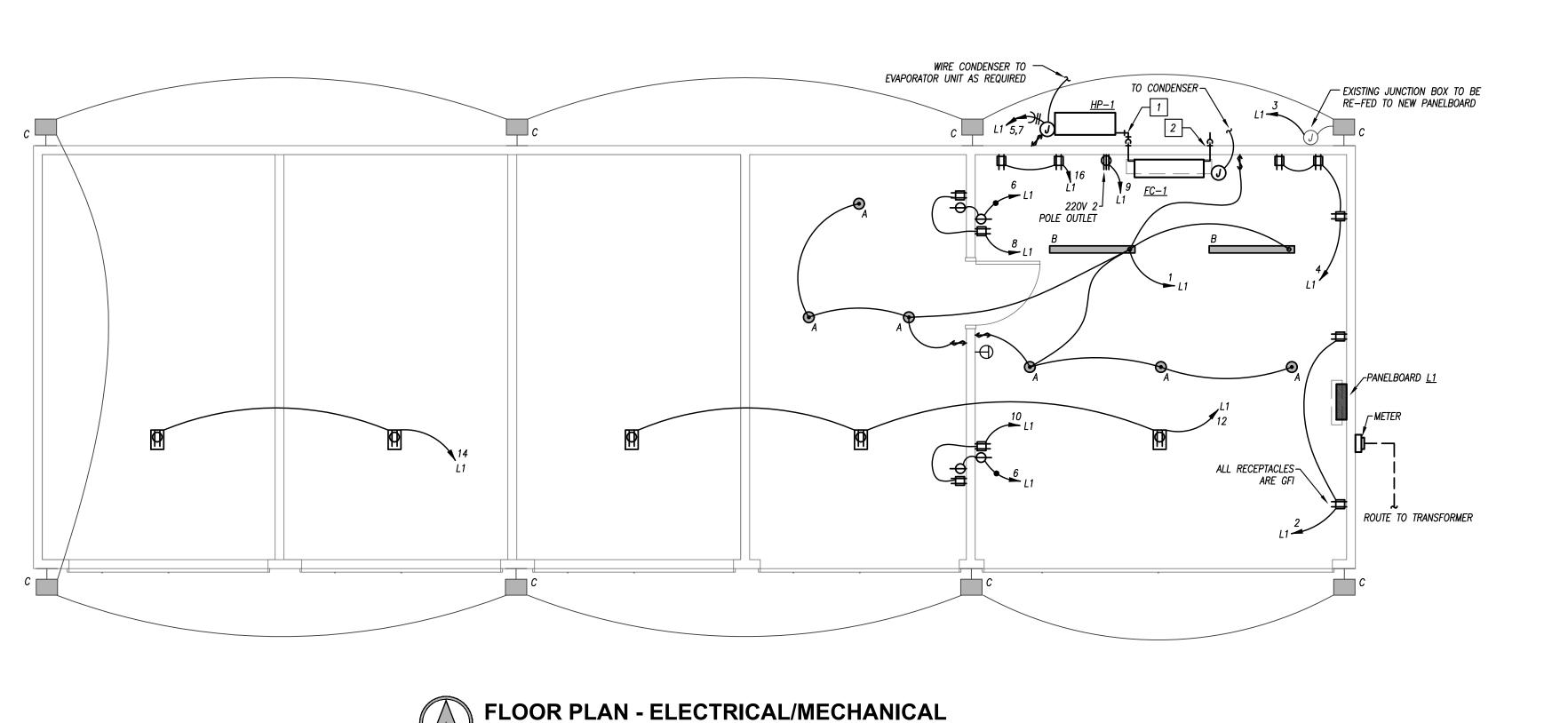
SPECIFICATIONS AND DETAILS

EARSON KENT MCKINLEY RAAF ENGINEERS LL 13300 W 98TH STREET

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913.492.2400

LENEXA, KS 66215



SINGLE-SECT	ION	PANI	ELB	OA	RI	D	SCH	ΙED	ULE				
PANEL DESIGNATION: L1									JG AMPS: BREAKER:				
MOUNTING: LOCATION:		# HI COIC	#		VOLTAGE: 208/1 PHASE/WIRE: 10, 3V								
DESCRIPTION	PHASE		C/B		J ≅		C/B		PHASE		DESCRIPTION	PTION	
DEGERII TION	Α	В	TRIP	POLE			POLE	TRIP	Α	В	DESCRIPTION		
LTG WORKSHOP	238		20	1	1	2	1	20	720		REC	WORKSHOP 1	
LTG OUTDOOR		160	20	1	3	4	1	20		1080	REC	WORKSHOP 2	
A/C MINI-SPLIT	1596		15	2	5	6	1	20	720		REC (CART CHARGER	
_		1596	_	_	7	8	1	20		720	REC	WORKSHOP 3	
REC DEDICATED 220V	1920		20	2	9	10	1	20	720		REC	WORKSHOP 4	
_		1920	_	_	11	12	1	20		540		REC GARAGE 1	
SPARE	1		20	1	13	14	1	20	360		ŀ	REC GARAGE 2	
SPARE		_	20	1	15	16	1	20		720	REC WORKSHOP 5		
SPARE	ı		20	1	17	18	1	20	ı			SPARE	
SPARE		_	20	1	19	20	1	20		_		SPARE	
SPARE	1		20	1	21	22	1	20	ı			SPARE	
_		_	_	1	23	24	1	-		_		_	
_	-		_	1	25	26	1	-	-			_	
_		_	_	1	27	28	1	_				_	
_	_		_	1	29	30	1	_	_			_	
TOTALS	3754	3676							2520	3060	TOTALS		
PAI	NELBOA	RD SIZIN	IG LOA	.D						CON	INECTED PHAS	E LOADS	
LOAD DESCRIPTION	CONN	ECTED	DEM	IAND		COL	DE MIN.	(VA)		PHASE	VA	AMPS	
LIGHTS	3:	98	1	25			498			Α	6,274	52.3	

HOP	238		20	1	1	2	1	20	720		REC WORKSHOP 1			
OR		160	20	1	3	4	1	20		1080	REC	WORKSHOP 2		
SPLIT	1596		15	2	5	6	1	20	720		REC C	ART CHARGER		
		1596	_	-	7	8	1	20		720	REC	WORKSHOP 3		
ATED 220V	1920		20	2	9	10	1	20	720		REC	WORKSHOP 4		
		1920	_	-	11	12	1	20		540	REC GARAGE 1			
	-		20	1	13	14	1	20	360		R	EC GARAGE 2		
		-	20	1	15	16	1	20		720	REC	WORKSHOP 5		
	-		20	1	17	18	1	20	-			SPARE		
		-	20	1	19	20	1	20		1	SPARE			
	-		20	1	21	22	1	20	-			SPARE		
		-	_	1	23	24	1	_		_	-			
	-		_	1	25	26	1	-	1			_		
		-	- 1 27 28 1 -				-		_	_				
	ı		- 1 29 30 1						-					
TOTALS	3754	3676						2520	3060	TOTALS				
								,						
PAI	PANELBOARD SIZING LOAD									CON	INECTED PHASE	LOADS		
CRIPTION	CONN	ECTED	ED DEMAND			CODE MIN. (VA)				PHASE	VA	AMPS		
	39	98	1.25 498							Α	6,274	52.3		
CLES	9,4	20 10	KVA + .	50% RES	T		9,420			В	6,736	56.1		

1011120	0707	1			0000		
				_			
PAI	NELBOARD SIZIN]	CON	INECTED PHASE	LOADS		
LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)]	PHASE	VA	AMPS
LIGHTS	398	1.25	498		Α	6,274	52.3
RECEPTACLES	9,420 10	0KVA + 50% RES	T 9,420]	В	6,736	56.1
MOTORS	0 1.25	x LARGEST + SUM OF	rest ()]	TOTALS	13,010	62.5
AIR CONDITIONING	3,192	1.00	3,192]			
SPACE HEATING	0	0.00	0]	<u>REMARKS:</u>		
CONTINUOUS	0	1.25	0]	1.		
NON-CONTINUOUS	0	1.00	0		2.		

13,110

1.00 SIZING LOAD:

SIZING LOAD (AMPS):

GENERAL LIGHTING NOTES

, 1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR

ADDITIONAL REQUIREMENTS OF WORK.

2. LIGHT FIXTURES INDICATED AS EMERGENCY FIXTURES ARE TO FUNCTION AS NIGHT LIGHTS UNLESS SPECIFICALLY SHOWN

3. ALL CIRCUITING SHOWN ON THIS PLAN IS DIAGRAMMATIC. 3.1. ALL FIXTURES SHALL BE FED FROM JUNCTION BOXES WITH LIGHT FIXTURE WHIPS (<6'). DAISY-CHAINING OF

FIXTURES IS NOT ALLOWED. 3.2. 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. 3.3. WALL SWITCHES FOR SEPARATE LOAD TYPES (EM/NORMAL, 120/277V, ETC.) SHALL NOT BE IN A SINGLÈ BÓX. 3.4. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.

RECEPTACLES SERVING EQUIPMENT WITH EXACT EQUIPMENT BEING FURNISHED.

TAMPER-RESISTANT RECEPTACLES.

4. EXACT MECHANICAL EQUIPMENT LOCATIONS MAY NOT BE SHOWN FOR CLARITY. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, DUCT DETECTORS, ETC. WITH MECHANICAL DRAWINGS AND CONTRACTOR.

5. COORDINATE EXACT LOCATIONS OF SMOKE DETECTORS WITH CEILING FANS, HVAC DIFFUSERS, SPRINKLER HEADS, ETC. PER NFPA REQUIREMENTS.

GENERAL POWER NOTES

2. COORDINATE EXACT NEMA CONFIGURATIONS OF

3. REFER TO THE SPECIFICATIONS FOR ADDITIONAL LOCATIONS/REQUIREMENTS FOR RECEPTACLES, INCLUDING GFCI, WEATHER—RESISTANT, HOSPITAL—GRADE, AND

120/208 1PH/3W — #2 NEC GROUND UTILITY COMPANY METER -— GROUNDING ELECTRODE SYSTEM. REFER TO DETAIL. 1 SET (3) 4/0 WIRE IN 2"C –

LIGHT FIXTURE SCHEDULE										
FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMP NUMBER / DESCRIPTION	VOLTAGE	REMARKS	E			
А			ROUND LED DOWNLIGHT.	ONE (1) 26 WATT, 1782 LUMEN, L20 LUMEN PACKAGE. 3500K CCT.	120	1,2				
В			4'-0" LONG x $2-5/8"$ WIDE SURFACE-MOUNTED LEF FIXTURE. ROUNDED FROSTED ACRYLIC LENS. WHITE POWDER COAT FINISH.	ONE (1) 41 WATT, 4100 LUMEN, L41 LED MODULE. 3500K CCT.	120	1,2				
С	N/A	N/A	EXISTING OUTDOOR WALL PACK LIGHT		120		 →			

<u>REMARKS:</u>

1. FURNISH WITH AND INSTALL ALL NECESSARY HARDWARE AND MOUNTING BRACKETS.

2. FIXTURE IS OWNER-PROVIDED, CONTRACTOR INSTALLED. COORDINATE EXACT ROUGH-IN REQUIREMENTS PRIOR TO CONSTRUCTION.

MISC. LOADS 1 MISC. LOADS 2

GENERAL NOTES (APPLICABLE TO ALL FIXTURES):

1) REFER TO SPECIFICATIONS FOR APPROVED EQUAL FIXTURE MANUFACTURERS AND ADDITIONAL FIXTURE/DRIVER/BALLAST REQUIREMENTS. 2) ALL FIXTURES WITH PAINTED METAL PARTS SHALL BE PAINTED AFTER FABRICATION.

3) LUMENS LISTED FOR LED FIXTURES ARE GENERALLY DELIVERED LUMENS UNLESS NOTED OTHERWISE.

4) ALL EXTERIOR LED FIXTURES ARE FULL CUTOFF UNLESS NOTED OTHERWISE.

5) ALL FIXTURES SHALL BE IC RATED OR PROVIDED WITH INSULATION SHIELDS WHEN INSTALLED IN INSULATED AREAS OF THE TRUSS SPACE. 6) FOR ALL FIXTURES INSTALLED IN RATED ASSEMBLIES, FURNISH AND INSTALL APPROVED FIRE BARRIER (E.Z. BARRIER OR TENMAT FF109 SERIES) OVER FIXTURE TO MAINTAIN 1 HOUR CEILING ASSEMBLY RATING.

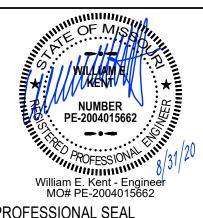
GENERAL HVAC NOTES

. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.

_HVAC KEYED NOTES

1 REFRIGERANT SUCTION AND LIQUID LINE TO HEAT PUMP. ☐ SEAL WALL PENETRATION.

2 ROUTE CONDENSATE TO STORM DRAIN OR LANDSCAPED AREA. AVOID DISCHARGING ON SIDEWALK OR PARKING



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FLOOR PLANS AND SCHEDULES

MINI-SPLIT COOLING ONLY UNIT

OUTDOOR HEAT PUMP UNIT PLAN MARK MANUFACTURER CFM FLA EAT/LAT CAP. (MBH) TYPE VOLTAGE MARK MODEL AMBIENT REF. MCA MOCP VOLTAGE 1 455 0.30 75° / 55° 18.0 DX 24V HP-1 RXN18 0°F /95°F R-410A 13.3 15 240V / 1PH 1, 2, 3

<u>REMARKS:</u> 1. PROVIDE WITH WIRED WALL MOUNTED THERMOSTAT / CONTROLLER.

2. PROVIDE INTEGRAL DISCONNECT FOR INDOOR EVAPORATOR AND EXTERNAL HEAVY DUTY NEMA 3R DISCONNECT FOR HEAT PUMP. PROVIDE WIRING BETWEEN INDOOR AND HEAT PUMP. CORRDINATE WITH EC.

3. UNIT SHALL OPERATE DOWN TO 0°F IN COOLING MODE. PROVIDE ACCESSORIES AS REQUIRED.