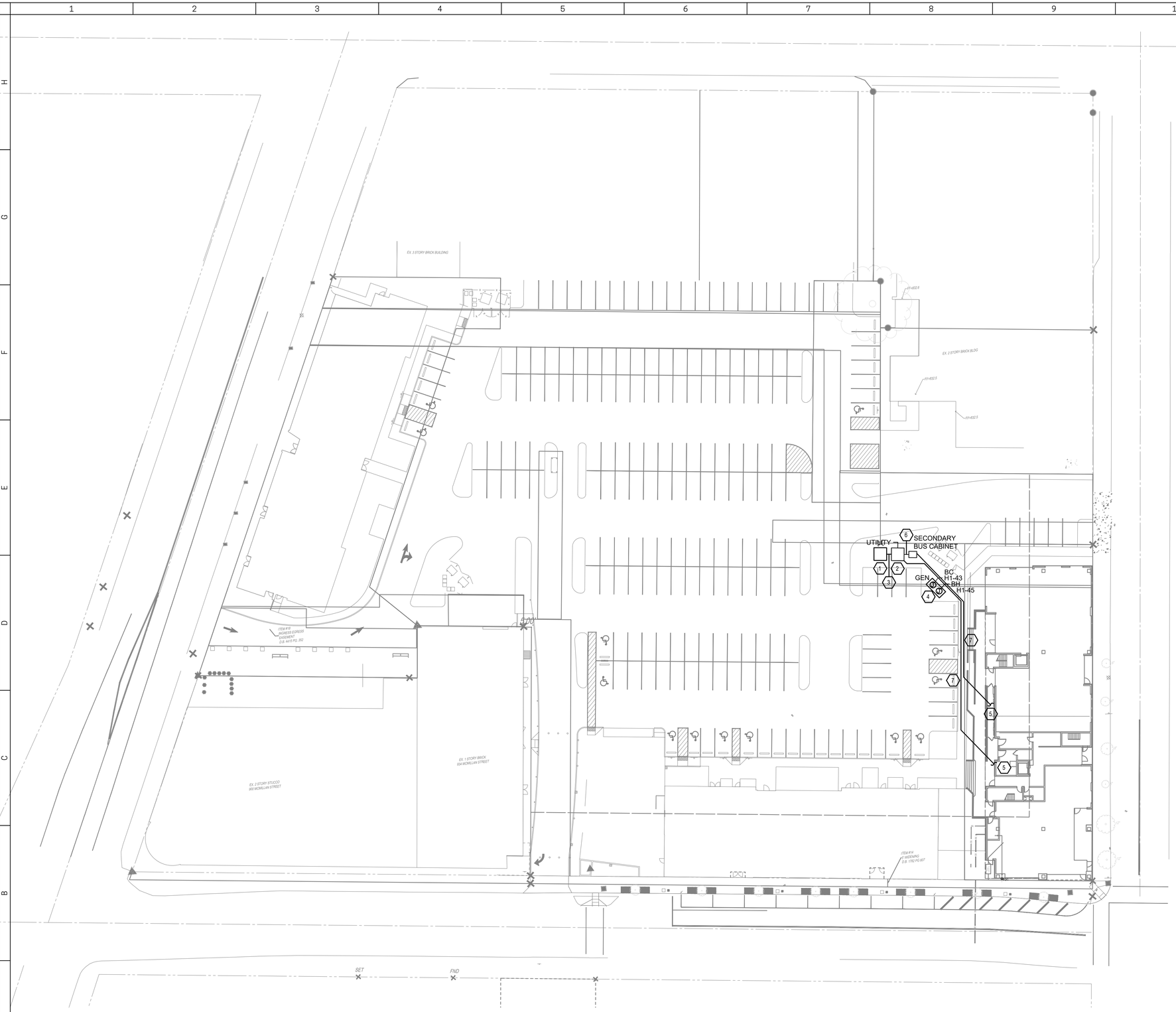
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ENGINEERED BUILDING SYSTEMS, INC.



SCOPE OF WORK

NEW CONSTRUCTION OF A MIXED USE MUTLI-TENANT BUILDING. COMMERCIAL TENANTS ON THE FIRST AND SECOND FLOORS AND RESIDENTIAL TENANTS ON FLOORS 2-6.

SCOPE OF WORK INCLUDES ELECTRICAL EQUIPMENT, FEEDERS, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES.

SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION.

GENERAL NOTES - OVERALL PROJECT

A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

GENERAL NOTES - SITE

A. ALL EQUIPMENT LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.

B. PERFORM ALL EXCAVATION, TRENCHING AND BACKFILL REQUIRED FOR THE INSTALLATION OF THIS WORK. ALL BACKFILL SHALL BE BROUGHT TO FINISHED GRADE AND MATCH SURROUNDING CONDITIONS. RESTORE ALL DISTURBED PAVING AND LANDSCAPING TO ORIGINAL CONDITIONS. PULL BOXES SHALL BE PROVIDE OF A TYPE MEETING THE REQUIREMENTS AND CONDITIONS OF THE USE INTENDED.

C. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SITE WORK WITH GENERAL CONTRACTOR AND OTHER BUILDING TRADES.

D. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL UNDERGROUND FEEDERS IN PVC SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC 250.

E. COORDINATE ALL UNDERGROUND UTILITY WORK INCLUDING BUT NOT LIMITED TO THE FOLLOWING: EC RESPONSIBLE FOR ALL PRIMARY/SECONDARY UG CONDUITS INSTALLED FROM UTILITY DEMARC TO PAD OR NEW POLE-MOUNT TRANSFORMER LOCATION, (WHEN REQUIRED). CONFIRM ALL UTILITY WORK WITH OWNER, ARCH, GC, UTILITY REPRESENTATIVE, ETC PRIOR TO CONSTRUCTION.

F. AS-BUILT DRAWINGS SHALL INCLUDE AN OVERALL SITE PLAN SHOWING ROUTING OF ALL CIRCUITRY AND LOCATIONS OF ALL TRANSFORMERS, ETC. AND PULL BOXES,ETC.

G. PROVIDE APPROPRIATE POWER AND GFCI PROTECTION FOR ALL ABOVE GROUND PIPING HEAT TRACE. COORDINATE VOLTAGE/PHASE WITH CONTRACGTOR FURNISHING HEAT TRACE.

KEYED SHEET NOTES - SITE

1. EXISTING UTILITY TRANSFORMER.
2. PROPOSED LOCATION FOR NEW UTILITY TRANSFORMER & SECONDARY BUS CABINET.
3. INTERCEPT EXISTING (2) 4" CONDUITS FROM EXISTING TRANSFORMER AND EXTEND TO NEW UTILITY TRANSFORMER LOCATION FOR PRIMARY LOOP FEED.
4. PROPOSED LOCATION OF GENERATOR.
5. SEE SHEET E100 FOR ELECTRICAL SERVICE EQUIPMENT LOCATIONS INSIDE AND OUTSIDE OF BUILDING
6. PROVIDE CONDUIT(S) PER DUKE REQUIREMENTS BETWEEN UTILITY TRANSFORMER AND SECONDARY BUS CABINET.
7. COORDINATE ROUTING OF SECONDARY WIRING BETWEEN UTILITY TRANSFORMER AND BUILDING WITH CIVIL TO AVOID THE UNDERGROUND DETENTION SYSTEM.

ELECTRICAL SITE PLAN

1 / E001 SCALE: 1" = 30'-0"

PARAMOUNT WORKS

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No.	Issuances / Revisions / Submissions	Date
	PRICING/PERMIT ISSUANCE	02.23.2024

PR-10535

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Drawing Title
ELECTRICAL SITE PLAN

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GENERAL NOTES - ELEVATOR(S)

A. FURNISH AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS AND CONNECTIONS FOR ELEVATOR OPERATION. REFER TO ELEVATOR SHOP DRAWINGS FOR COMPLETE INFORMATION. PROVIDE SHUNT-TRIP OPERATION FOR ELEVATOR CIRCUIT WHERE REQUIRED. INCLUDE CONNECTIONS FOR SHAFT, SUMP PUMP, PIT LIGHT, RECEPTACLE, CAB LIGHT, ETC. BASIS OF DESIGN HP AND CIRCUIT CHARACTERISTICS SHOWN ON DRAWINGS MUST BE VERIFIED WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN OR INSTALLATION.

GENERAL NOTES - GENERATOR

A. GENERATORS, TRANSFER SWITCHES, FUEL CAPACITY/RUN-TIMES, AND START-UP/OPERATION REQUIREMENTS SHALL CONFORM TO THE REQUIREMENTS FOR THEIR USE - STAND-BY, LEGALLY REQUIRED STAND-BY, EMERGENCY, ETC.

B. CONTRACTOR SHALL COORDINATE PAD REQUIREMENTS WITH GENERATOR SUPPLIER AND LOCATE ALL CONDUIT OPENINGS PER MANUFACTURER'S INSTALLATION GUIDES.

C. PROVIDE ALL ANCILLARY WIRING FOR CONTROL, COMMUNICATION, BATTERY CHARGE, BLOCK HEATER, ETC.

D. INSTALL PAD AND GENERATOR SUCH THAT REQUIRED CLEARANCES FROM BUILDINGS, BUILDING OPENINGS, AND OTHER OBSTRUCTIONS ARE MAINTAINED.

E. COORDINATE GENERATOR CIRCUIT BREAKER/FEEDER REQUIREMENTS WITH ACTUAL EQUIPMENT BEING CONNECTED - FIRE PUMP, ETC.

F. WHERE THE GENERATOR IS REQUIRED TO OPERATE AS A SEPARATELY DERIVED SYSTEM (GENERATOR SERVING MULTIPLE BUILDINGS/STRUCTURES FOR EXAMPLE) PROVIDE PROPER GROUNDING AND USE 4-POLE TRANSFER SWITCHES AS REQUIRED BY NEC 250.

SCOPE OF WORK

NEW CONSTRUCTION OF A MIXED USE MUTLI-TENANT BUILDING. COMMERCIAL TENANTS ON THE FIRST AND SECOND FLOORS AND RESIDENTIAL TENANTS ON FLOORS 2-6.

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SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION.

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GENERAL NOTES - POWER

A. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.

B. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC.

C. PROVIDE MOTOR STARTERS FOR EQUIPMENT AS INDICATED ON DRAWINGS. COORDINATE ANY INTERLOCKING WIRING WITH HVAC CONTRACTOR AND PROVIDE WIRING, COILS, AND AUXILIARY CONTACTS AS NECESSARY. SIZE ALL CIRCUITS FOR ACTUAL EQUIPMENT TO BE CONNECTED.

D. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.

E. ROOF MOUNTED AND OUTDOOR EQUIPMENT SHALL HAVE 120V RECEPTACLE MOUNTED WITHIN 25' OF EACH PIECE. RECEPTACLES SHALL BE IN WEATHER PROOF BOX AND HAVE GFCI PROTECTION.

F. FOR ITEMS FURNISHED BY OTHER TRADES, ELECTRICAL CONTRACTOR TO FULLY COORDINATE BREAKER AND WIRE SIZES WITH ACTUAL EQUIPMENT BEING CONNECTED PRIOR TO ROUGH-IN, OR INSTALLATION. THE SIZES ON PANEL SCHEDULES REFER TO BASIS OF DESIGN SELECTIONS, AND ACTUAL ITEMS MAY DEVIATE FROM BASIS OF DESIGN. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONFIRM REQUIRED WIRE AND BREAKER SIZES WITH THE CONTRACTOR FURNISHING THE EQUIPMENT.

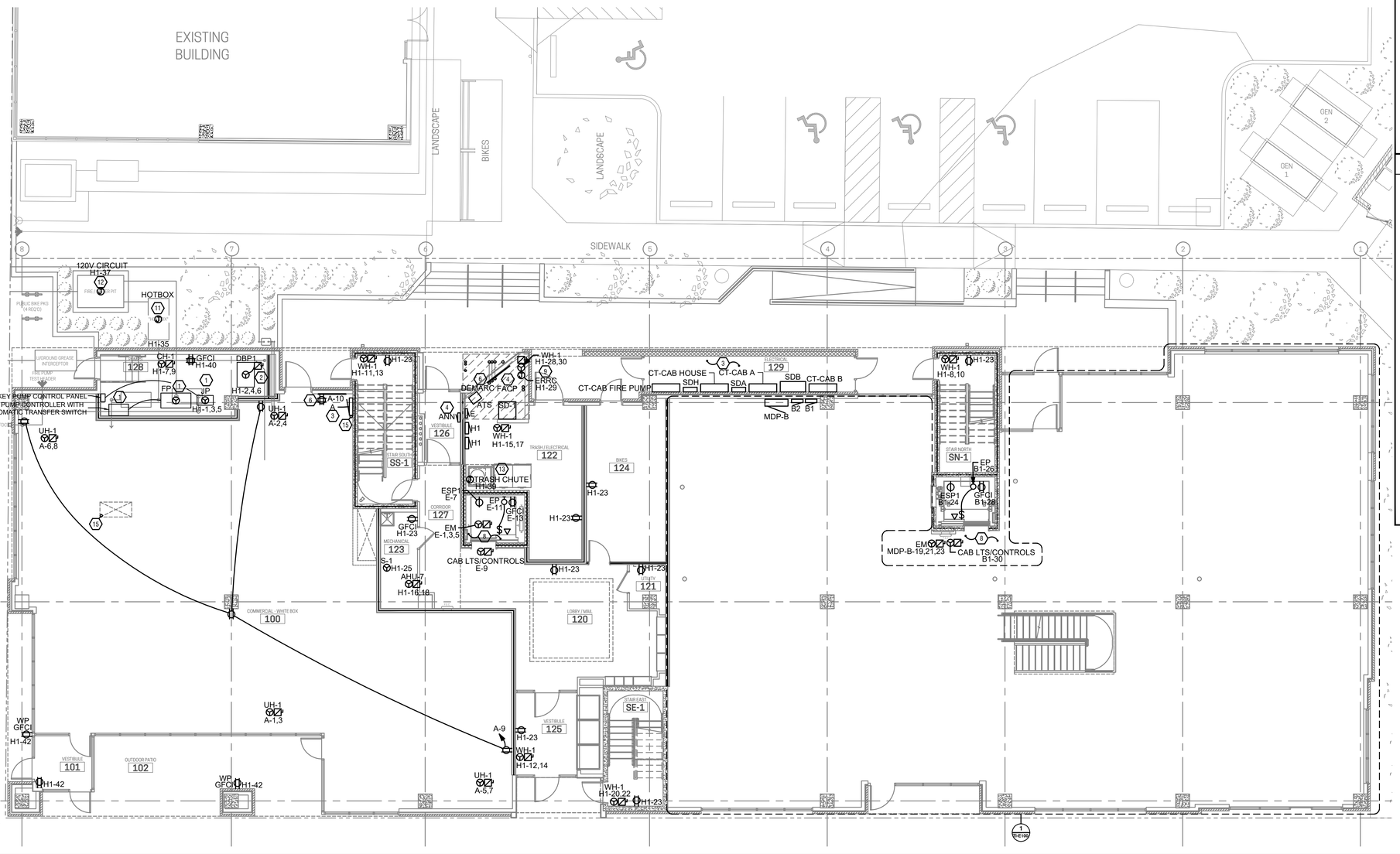
G. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.

H. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.

I. GFCI DEVICES MUST BE INSTALLED IN ACCESSIBLE LOCATIONS AND NOT PLACED BEHIND EQUIPMENT.

KEYED SHEET NOTES - OVERALL

1. FIRE PUMP AND JOCKEY PUMP AND CONTROLLER. PROVIDE ALL WIRING AND DISCONNECTS AS NECESSARY. PROVIDE INTERCONNECTIONS BETWEEN CONTROLLERS AND PUMPS.
2. PROVIDE A DISCONNECT AND CIRCUIT FOR DOMESTIC BOOSTER PUMP.
3. ELECTRICAL EQUIPMENT PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
4. PROVIDE A DEDICATED CIRCUIT FOR FIRE ALARM PANEL IN THE MECHANICAL ROOM AND A REMOTE ANNUNCIATOR AT THE BUILDING ENTRANCE. LOCATION TO BE CONFIRMED BY GC AND AHJ PRIOR TO INSTALLATION.
5. INSTALL (3) 4" VERTICAL CONDUIT SLEEVES INTO MECHANCIAL/ELECTRICAL ROOM ON EACH FLOOR FOR DATA/PHONE/TV CABLING.
6. INSTALL 4'X4'X3/4" PLYWOOD BACKBOARD FOR AND QUAD RECEPTACLE FOR DATA/PHONE UTILITIES.
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8. ITEMS TO BE INSTALLED FOR THE ELEVATOR. CONFIRM ALL ELECTRICAL CONTRACTOR RESPONSIBLE WORK PRIOR TO ROUGH-IN. REFER TO ELEVATOR SHOP DRAWINGS FOR MORE INFORMATION. ALL ITEMS PERTAINING TO THE ELEVATOR TO BE INSTALLED PER NEC AND MANUFACTURER REQUIREMENTS. COORDINATE REQUIREMENTS AND LOCATIONS WITH INSTALLING CONTRACTOR PRIOR TO INSTALLATION.
9. PROVIDE BRANCH CIRCUIT FOR ERRC SYSTEM, FINAL LOCATION TO BE DETERMINED IN THE FIELD BY EC.
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15. EC TO PROVIDE A EMPTY 1" CONDUIT FROM PANEL A TO THE TOP OF THE SHAFT FOR FUTURE ROOFTOP UNIT. CAP CONDUIT END, COORDINATE ROUTING WITH DUCT WORK INSTALLATION.



E100 ELECTRICAL POWER FIRST FLOOR PLAN

1/8"=1'-0"

PARAMOUNT WORKS

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ELECTRICAL POWER FIRST FLOOR PLAN

Document No.
E100

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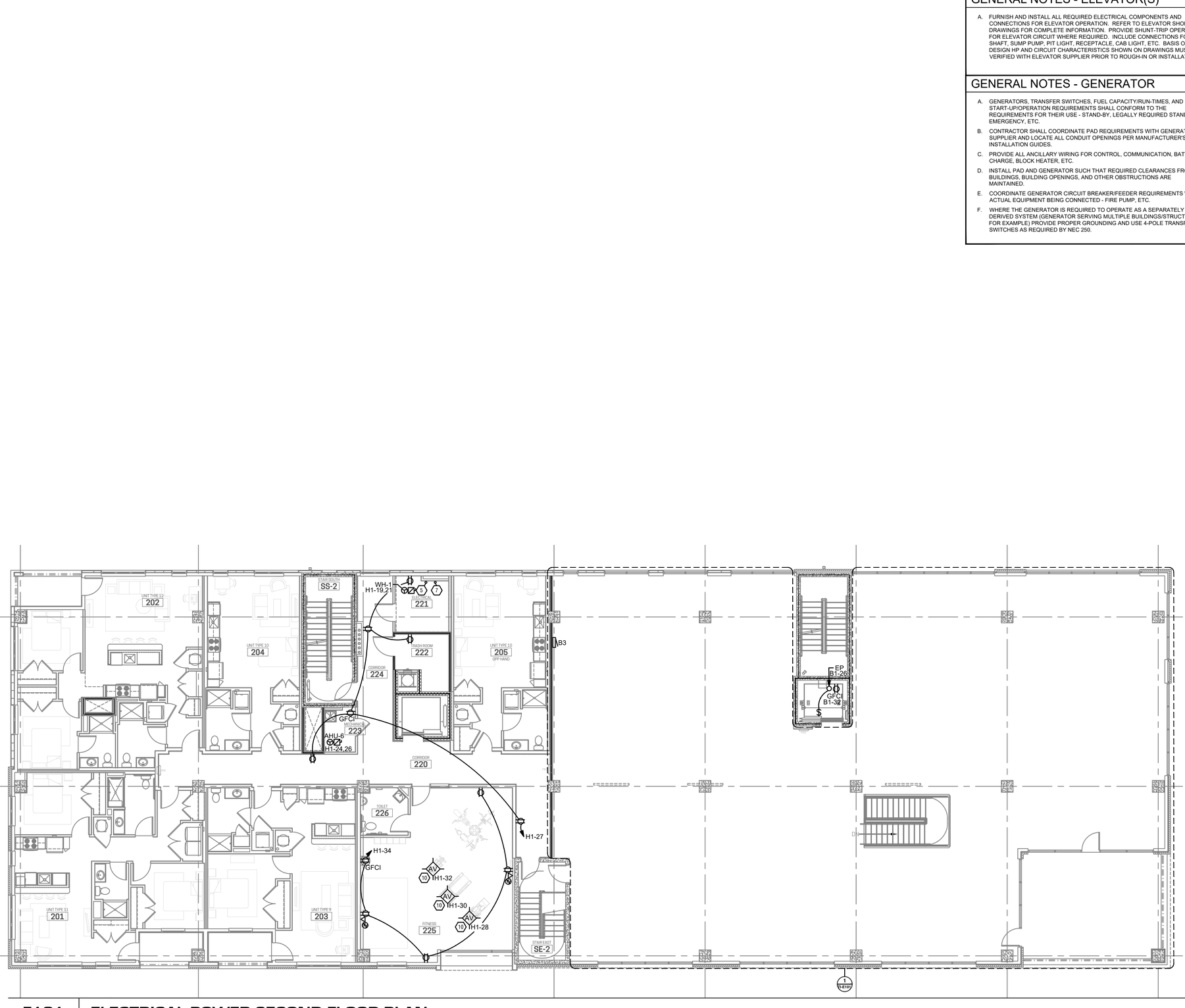
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E101 ELECTRICAL POWER SECOND FLOOR PLAN

1/8"=1'-0"

PARAMOUNT WORKS

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Drawing Title
ELECTRICAL POWER SECOND FLOOR PLAN

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SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION.

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A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

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C. PROVIDE MOTOR STARTERS FOR EQUIPMENT AS INDICATED ON DRAWINGS. COORDINATE ANY INTERLOCKING WIRING WITH HVAC CONTRACTOR AND PROVIDE WIRING, COILS, AND AUXILIARY CONTACTS AS NECESSARY. SIZE ALL CIRCUITS FOR ACTUAL EQUIPMENT TO BE CONNECTED.

D. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.

E. ROOF MOUNTED AND OUTDOOR EQUIPMENT SHALL HAVE 120V RECEPTACLE MOUNTED WITHIN 25' OF EACH PIECE. RECEPTACLES SHALL BE IN WEATHER PROOF BOX AND HAVE GFCI PROTECTION.

F. FOR ITEMS FURNISHED BY OTHER TRADES, ELECTRICAL CONTRACTOR TO FULLY COORDINATE BREAKER AND WIRE SIZES WITH ACTUAL EQUIPMENT BEING CONNECTED PRIOR TO ROUGH-IN, OR INSTALLATION. THE SIZES ON PANEL SCHEDULES REFER TO BASIS OF DESIGN SELECTIONS, AND ACTUAL ITEMS MAY DEVIATE FROM BASIS OF DESIGN. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONFIRM REQUIRED WIRE AND BREAKER SIZES WITH THE CONTRACTOR FURNISHING THE EQUIPMENT.

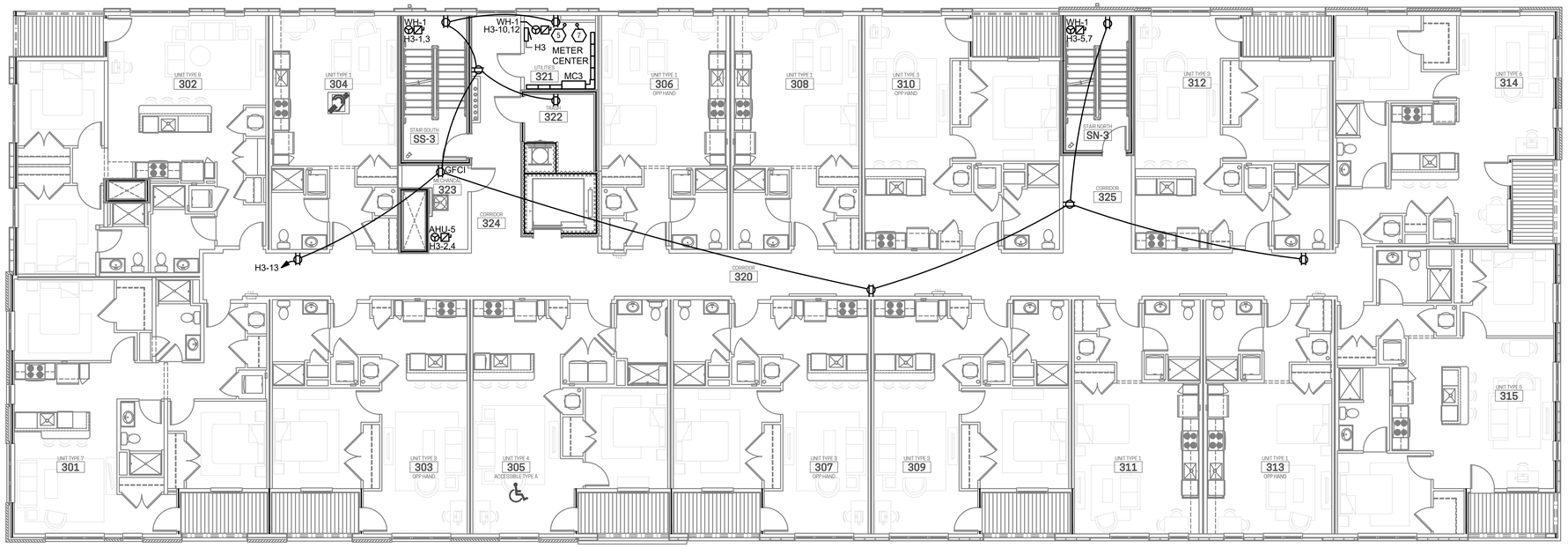
G. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.

H. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.

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E102 ELECTRICAL POWER THIRD FLOOR PLAN

1/8"=1'-0"

PARAMOUNT WORKS

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No.	Issuances / Revisions / Submissions	Date
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PR-10535

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Drawing Title
ELECTRICAL POWER THIRD FLOOR PLAN

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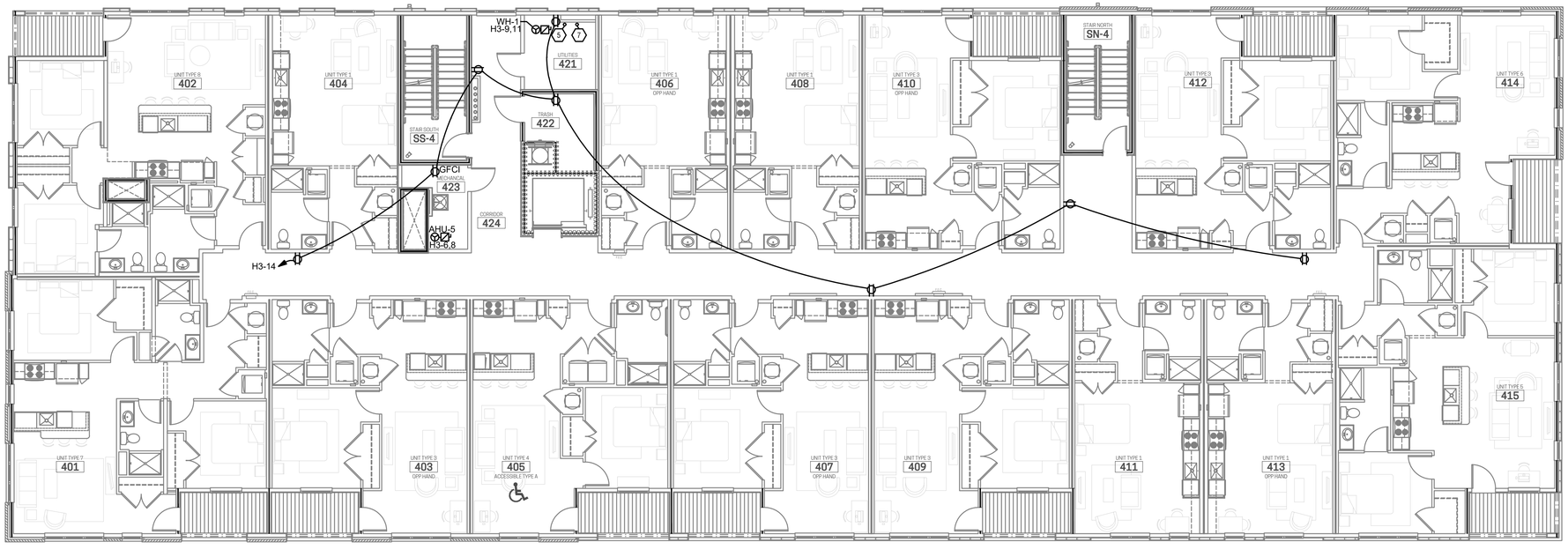
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Drawing Title
ELECTRICAL POWER FOURTH FLOOR PLAN

Document No.
E103

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E103 **ELECTRICAL POWER FOURTH FLOOR PLAN**
1/8"=1'-0"

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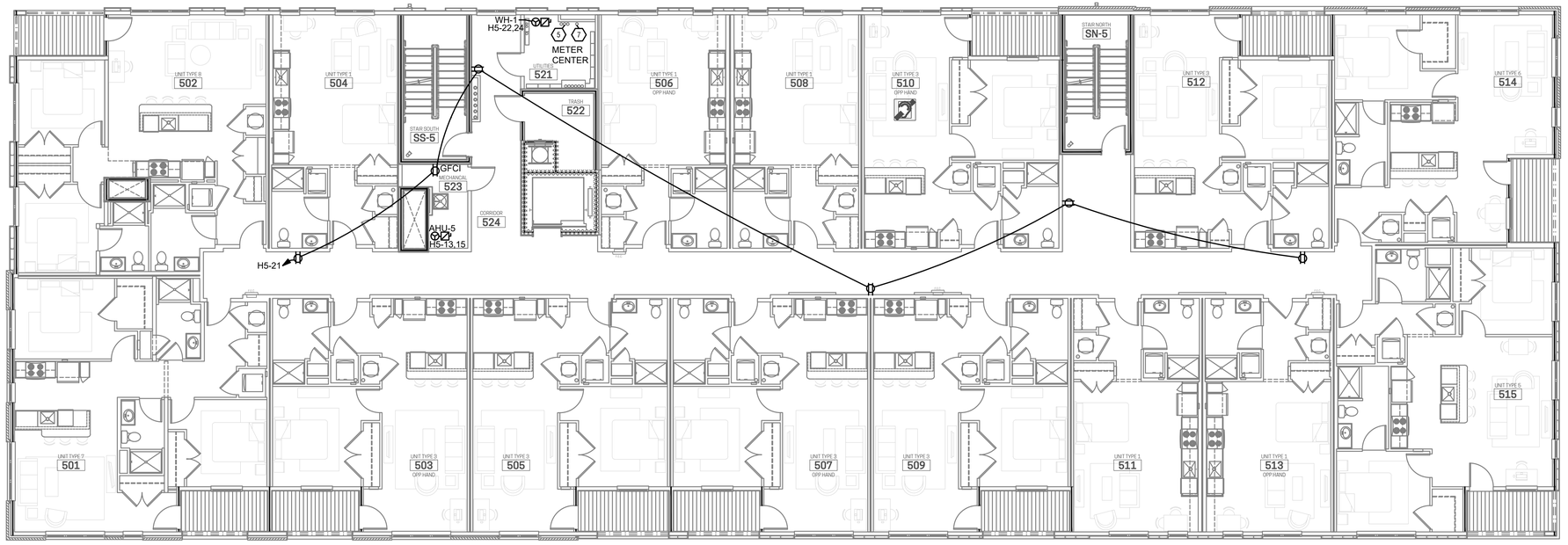
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E104 ELECTRICAL POWER FIFTH FLOOR PLAN

1/8"=1'-0"

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ELECTRICAL POWER FIFTH FLOOR PLAN

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PLOTTED: Thursday, February 22, 2024 2:52:52 PM

GENERAL NOTES - ELEVATOR(S)

A. FURNISH AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS AND CONNECTIONS FOR ELEVATOR OPERATION. REFER TO ELEVATOR SHOP DRAWINGS FOR COMPLETE INFORMATION. PROVIDE SHUNT-TRIP OPERATION FOR ELEVATOR CIRCUIT WHERE REQUIRED. INCLUDE CONNECTIONS FOR SHAFT, SUMP PUMP, PIT LIGHT, RECEPTACLE, CAB LIGHT, ETC. BASIS OF DESIGN HP AND CIRCUIT CHARACTERISTICS SHOWN ON DRAWINGS MUST BE VERIFIED WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN OR INSTALLATION.

GENERAL NOTES - GENERATOR

A. GENERATORS, TRANSFER SWITCHES, FUEL CAPACITY/RUN-TIMES, AND START-UP/OPERATION REQUIREMENTS SHALL CONFORM TO THE REQUIREMENTS FOR THEIR USE - STAND-BY, LEGALLY REQUIRED STAND-BY, EMERGENCY, ETC.

B. CONTRACTOR SHALL COORDINATE PAD REQUIREMENTS WITH GENERATOR SUPPLIER AND LOCATE ALL CONDUIT OPENINGS PER MANUFACTURER'S INSTALLATION GUIDES.

C. PROVIDE ALL ANCILLARY WIRING FOR CONTROL, COMMUNICATION, BATTERY CHARGE, BLOCK HEATER, ETC.

D. INSTALL PAD AND GENERATOR SUCH THAT REQUIRED CLEARANCES FROM BUILDINGS, BUILDING OPENINGS, AND OTHER OBSTRUCTIONS ARE MAINTAINED.

E. COORDINATE GENERATOR CIRCUIT BREAKER/FEEDER REQUIREMENTS WITH ACTUAL EQUIPMENT BEING CONNECTED - FIRE PUMP, ETC.

F. WHERE THE GENERATOR IS REQUIRED TO OPERATE AS A SEPARATELY DERIVED SYSTEM (GENERATOR SERVING MULTIPLE BUILDINGS/STRUCTURES FOR EXAMPLE) PROVIDE PROPER GROUNDING AND USE 4-POLE TRANSFER SWITCHES AS REQUIRED BY NEC 250.

SCOPE OF WORK

NEW CONSTRUCTION OF A MIXED USE MUTLI-TENANT BUILDING. COMMERCIAL TENANTS ON THE FIRST AND SECOND FLOORS AND RESIDENTIAL TENANTS ON FLOORS 2-6.

SCOPE OF WORK INCLUDES ELECTRICAL EQUIPMENT, FEEDERS, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES.

SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION.

GENERAL NOTES - OVERALL PROJECT

A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

GENERAL NOTES - POWER

A. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.

B. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC.

C. PROVIDE MOTOR STARTERS FOR EQUIPMENT AS INDICATED ON DRAWINGS. COORDINATE ANY INTERLOCKING WIRING WITH HVAC CONTRACTOR AND PROVIDE WIRING, COILS, AND AUXILIARY CONTACTS AS NECESSARY. SIZE ALL CIRCUITS FOR ACTUAL EQUIPMENT TO BE CONNECTED.

D. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.

E. ROOF MOUNTED AND OUTDOOR EQUIPMENT SHALL HAVE 120V RECEPTACLE MOUNTED WITHIN 25' OF EACH PIECE. RECEPTACLES SHALL BE IN WEATHER PROOF BOX AND HAVE GFCI PROTECTION.

F. FOR ITEMS FURNISHED BY OTHER TRADES, ELECTRICAL CONTRACTOR TO FULLY COORDINATE BREAKER AND WIRE SIZES WITH ACTUAL EQUIPMENT BEING CONNECTED PRIOR TO ROUGH-IN, OR INSTALLATION. THE SIZES ON PANEL SCHEDULES REFER TO BASIS OF DESIGN SELECTIONS, AND ACTUAL ITEMS MAY DEVIATE FROM BASIS OF DESIGN. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONFIRM REQUIRED WIRE AND BREAKER SIZES WITH THE CONTRACTOR FURNISHING THE EQUIPMENT.

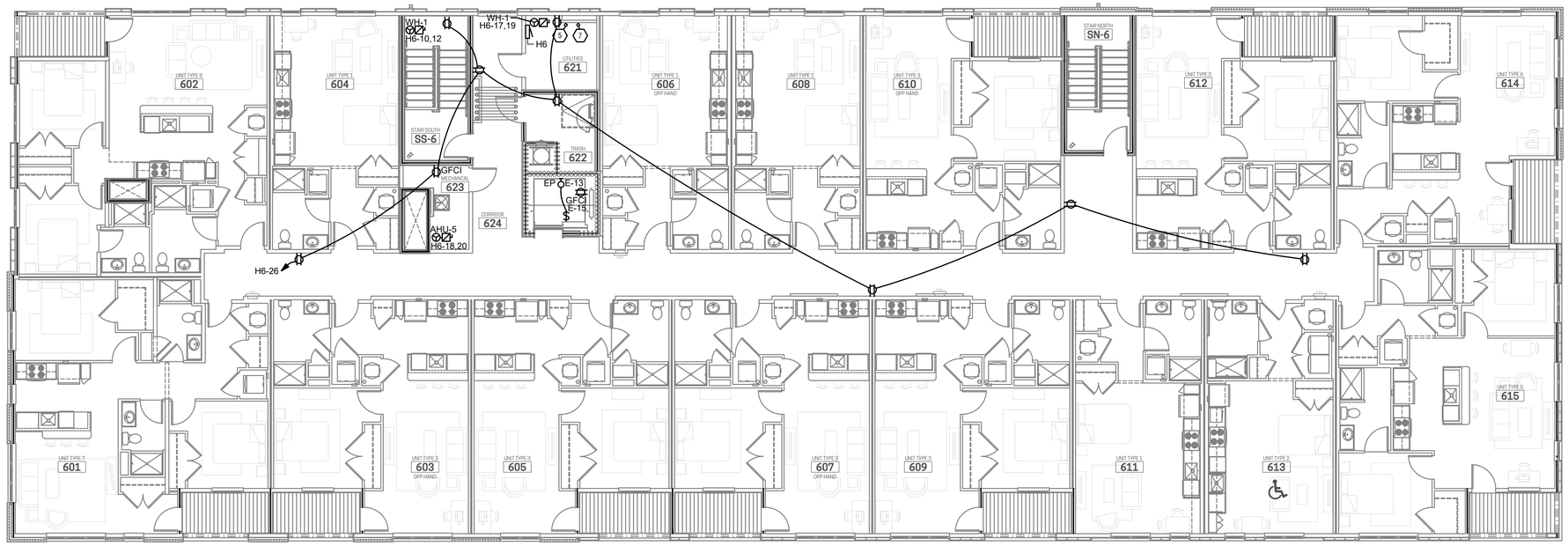
G. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.

H. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.

I. GFCI DEVICES MUST BE INSTALLED IN ACCESSIBLE LOCATIONS AND NOT PLACED BEHIND EQUIPMENT.

(#) KEYED SHEET NOTES - OVERALL

1. FIRE PUMP AND JOCKEY PUMP AND CONTROLLER. PROVIDE ALL WIRING AND DISCONNECTS AS NECESSARY. PROVIDE INTERCONNECTIONS BETWEEN CONTROLLERS AND PUMPS.
2. PROVIDE A DISCONNECT AND CIRCUIT FOR DOMESTIC BOOSTER PUMP.
3. ELECTRICAL EQUIPMENT PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
4. PROVIDE A DEDICATED CIRCUIT FOR FIRE ALARM PANEL IN THE MECHANICAL ROOM AND A REMOTE ANNUNCIATOR AT THE BUILDING ENTRANCE. LOCATION TO BE CONFIRMED BY GC AND AHJ PRIOR TO INSTALLATION.
5. INSTALL (3) 4" VERTICAL CONDUIT SLEEVES INTO MECHANCIAL/ELECTRICAL ROOM ON EACH FLOOR FOR DATA/PHONE/TV CABLING.
6. INSTALL 4'X4'X3/4" PLYWOOD BACKBOARD FOR AND QUAD RECEPTACLE FOR DATA/PHONE UTILITIES.
7. INSTALL (1) 4" VERTICAL CONDUIT SLEEVE INTO MECHANICAL/ELECTRICAL ROOM ON EACH FLOOR FOR FIRE ALARM CABLING.
8. ITEMS TO BE INSTALLED FOR THE ELEVATOR. CONFIRM ALL ELECTRICAL CONTRACTOR RESPONSIBLE WORK PRIOR TO ROUGH-IN. REFER TO ELEVATOR SHOP DRAWINGS FOR MORE INFORMATION. ALL ITEMS PERTAINING TO THE ELEVATOR TO BE INSTALLED PER NEC AND MANUFACTURER REQUIREMENTS. COORDINATE REQUIREMENTS AND LOCATIONS WITH INSTALLING CONTRACTOR PRIOR TO INSTALLATION.
9. PROVIDE BRANCH CIRCUIT FOR ERRC SYSTEM, FINAL LOCATION TO BE DETERMINED IN THE FIELD BY EC.
10. EC TO COORDINATE FINAL LOCATIONS OF FLOOR BOXES FOR FITNESS EQUIPMENT WITH GC PRIOR TO ROUGH-IN.
11. PROVIDE A 120V CIRCUIT IN THE METER PIT FOR HOTBOX. CONFIRM FINAL LOCATION WITH CIVIL DRAWINGS.
12. PROVIDE A 20AMP 120V CIRCUIT FOR FUTURE SUMP PUMP AND EMPTY 1" CONDUIT WITH PULL STRING FOR TAMPER SWITCH WIRING. CONFIRM FINAL LOCATION WITH CIVIL DRAWINGS.
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14. REFER TO OFFICE TENANT FITOUT DRAWINGS (SHEET TI-E106) FOR OFFICE TENANT FITOUT SCOPE IN THIS AREA.
15. EC TO PROVIDE A EMPTY 1" CONDUIT FROM PANEL A TO THE TOP OF THE SHAFT FOR FUTURE ROOFTOP UNIT. CAP CONDUIT END, COORDINATE ROUTING WITH DUCT WORK INSTALLATION.



N

E105 ELECTRICAL POWER SIXTH FLOOR PLAN

1/8"=1'-0"

PARAMOUNT WORKS

NWC KEMPER LANE & E. McMILLAN ST
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WALNUT HILLS NEIGHBORHOOD

No.	Issuances / Revisions / Submissions	Date
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PR-10535

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ELECTRICAL POWER SIXTH FLOOR PLAN

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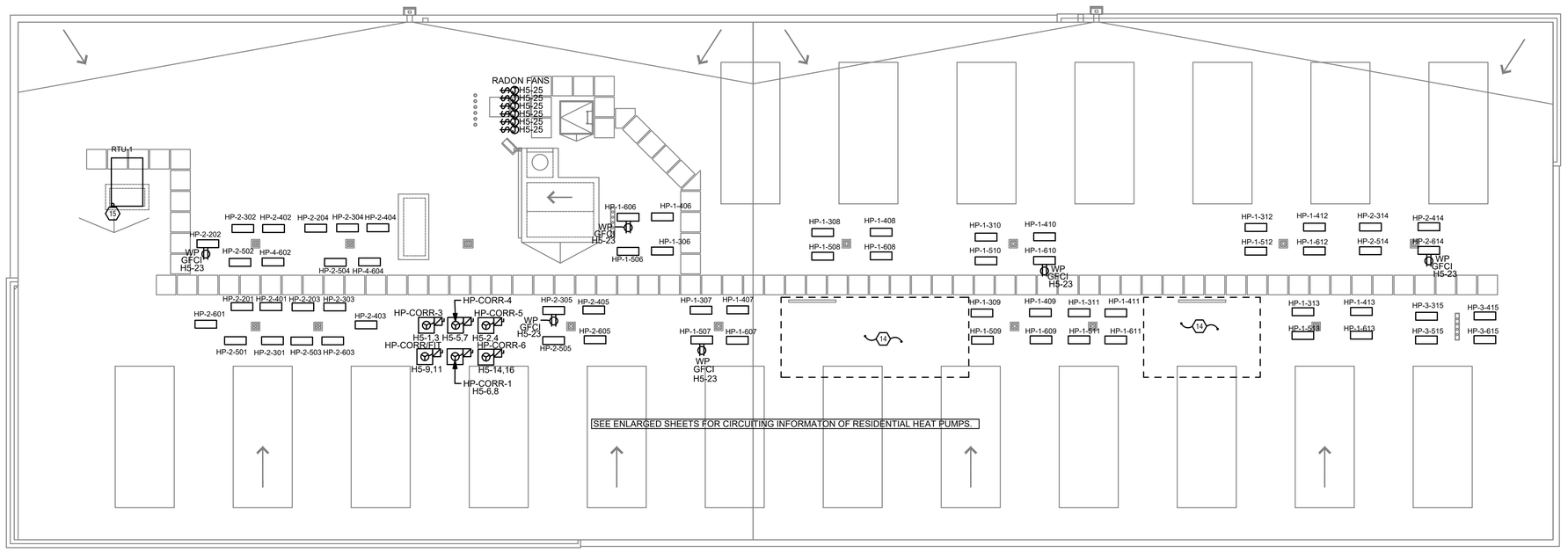
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N

E106 ELECTRICAL POWER ROOF PLAN

1/8"=1'-0"

PARAMOUNT WORKS

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ELECTRICAL POWER ROOF PLAN

Document No.
E106

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PLOTTED: Thursday, February 22, 2024 3:05:46 PM

PARAMOUNT LAUNCH OVERALL LUMINAIRE SCHEDULE

CALLOUT	DESCRIPTION	MODEL 1	INPUT VA
EM	EMERGENCY WALL PACK - W/ 90 MIN. BACKUP	SURE LITES SEL-50	3
EP	LED ELEVATOR PIT/SHAFT FIXTURE	COOPER VT-17-30	17
EX/EM	EXIT/EMERGENCY COMBO - 90 MIN. BACKUP	SURE LITES APC-H-7-R	3
R1	2X2 LED FLAT PANEL	METALUX 22CGTS-L3C3	29.7
R3	6" ROUND DOWNLIGHT	SGE6LEDFX-20L-DX-BH27-AR6223FX-MB	17
RH1	DUAL LAMP LED REMOTE HEAD (EXTERIOR EGRESS ILLUMINATION)	SURE LITES APWR-1	
RS	DECORATIVE RECESSED WALL WASH FIXTURE	TBD	64
SM3	6" ROUND SURFACE MOUNT LED DOWNLIGHT	HALO SMD6R-12-930-WH	15.3
SM10	14" LED FLUSH MOUNT	EFFICIENT LIGHTING EL-835-25LED-277V-BN	25
SM12	12" DECORITIVE SURFACE MOUNTED FIXTURE	TBD	64
SM24	24" DECORITIVE SURFACE MOUNTED FIXTURE	TBD	64
ST1-24	2' UTILITY STRIP FIXTURE	METALUX 4SNLED-LD5-24SL-UNV	19.3
ST1-48	4' UTILITY STRIP FIXTURE	METALUX 4SNLED-LD5-48SL-UNV	19.3
W1-EM/NL	4' DECORATIVE WALL MOUNTED STRIP FIXTURE	4SNLED-LD5-28SL-UNV- L835-CD1	19.3
WM4	EXTERIOR UP/DOWN CYLINDER	EFFICIENT LIGHTING EL-1080UD-187LED-BR	18
WP	EXTERIOR WALL PACK	TBD	64

* NL DENOTES EGRESS ILLUMINATION

SCOPE OF WORK

NEW CONSTRUCTION OF A MIXED USE MUTLI-TENANT BUILDING. COMMERCIAL TENANTS ON THE FIRST AND SECOND FLOORS AND RESIDENTIAL TENANTS ON FLOORS 2-6.

SCOPE OF WORK INCLUDES ELECTRICAL EQUIPMENT, FEEDERS, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES.

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GENERAL NOTES - LIGHTING

A. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES.

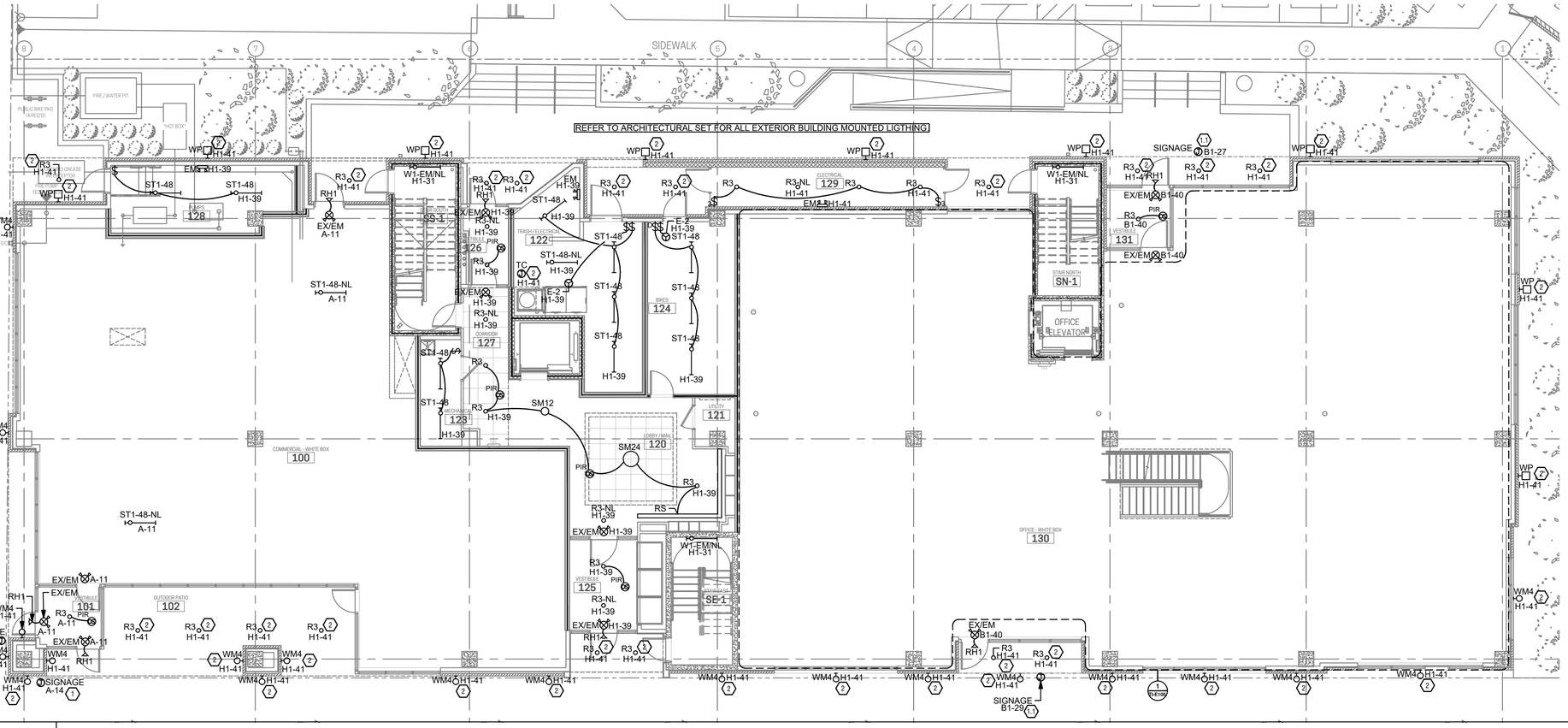
B. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL SWITCHING.

C. LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED.

D. WHERE DIMMERS AND/OR DIMMING SYSTEMS ARE REQUIRED, CONTRACTOR TO FURNISH DIMMERS THAT ARE COMPATIBLE WITH FIXTURE SOURCE AND RATED FOR THE WATTAGE OF THE DIMMING ZONE. PROVIDE ADDITIONAL DIMMERS AS REQUIRED TO MEET ZONE LOAD REQUIREMENTS.

KEYED SHEET NOTES

1. PROVIDE BRANCH CIRCUIT FOR EXTERIOR BUILDING MOUNTED SIGNAGE. FIELD VERIFY LOCATION WITH GC.
   1.1. JUNCTION BOX TO BE INSTALLED IN OPENING BELOW BUILDING FACADE.
2. PROVIDE TIMECLOCK FOR EXTERIOR LIGHTING ADJACENT TO HOUSE PANEL.



E200 ELECTRICAL LIGHTING FIRST FLOOR PLAN

1/8"=1'-0"

PARAMOUNT WORKS

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Drawing Title
ELECTRICAL LIGHTING FIRST FLOOR PLAN

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R1	2X2 LED FLAT PANEL	METALUX 22CGTS-L3C3	29.7
R3	6" ROUND DOWNLIGHT	SGE6LEDFX-20L-DX-BH27-AR6223FX-MB	17
RH1	DUAL LAMP LED REMOTE HEAD (EXTERIOR EGRESS ILLUMINATION)	SURE LITES APWR-1	
RS	DECORATIVE RECESSED WALL WASH FIXTURE	TBD	64
SM3	6" ROUND SURFACE MOUNT LED DOWNLIGHT	HALO SMD6R-12-930-WH	15.3
SM10	14" LED FLUSH MOUNT	EFFICIENT LIGHTING EL-835-25LED-277V-BN	25
SM12	12" DECORITIVE SURFACE MOUNTED FIXTURE	TBD	64
SM24	24" DECORITIVE SURFACE MOUNTED FIXTURE	TBD	64
ST1-24	2' UTILITY STRIP FIXTURE	METALUX 4SNLED-LD5-24SL-UNV	19.3
ST1-48	4' UTILITY STRIP FIXTURE	METALUX 4SNLED-LD5-48SL-UNV	19.3
W1-EM/NL	4' DECORATIVE WALL MOUNTED STRIP FIXTURE	4SNLED-LD5-28SL-UNV- L835-CD1	19.3
WM4	EXTERIOR UP/DOWN CYLINDER	EFFICIENT LIGHTING EL-1080UD-187LED-BR	18
WP	EXTERIOR WALL PACK	TBD	64

* NL DENOTES EGRESS ILLUMINATION

SCOPE OF WORK

NEW CONSTRUCTION OF A MIXED USE MUTLI-TENANT BUILDING. COMMERCIAL TENANTS ON THE FIRST AND SECOND FLOORS AND RESIDENTIAL TENANTS ON FLOORS 2-6.

SCOPE OF WORK INCLUDES ELECTRICAL EQUIPMENT, FEEDERS, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES.

SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION.

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GENERAL NOTES - LIGHTING

A. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES.

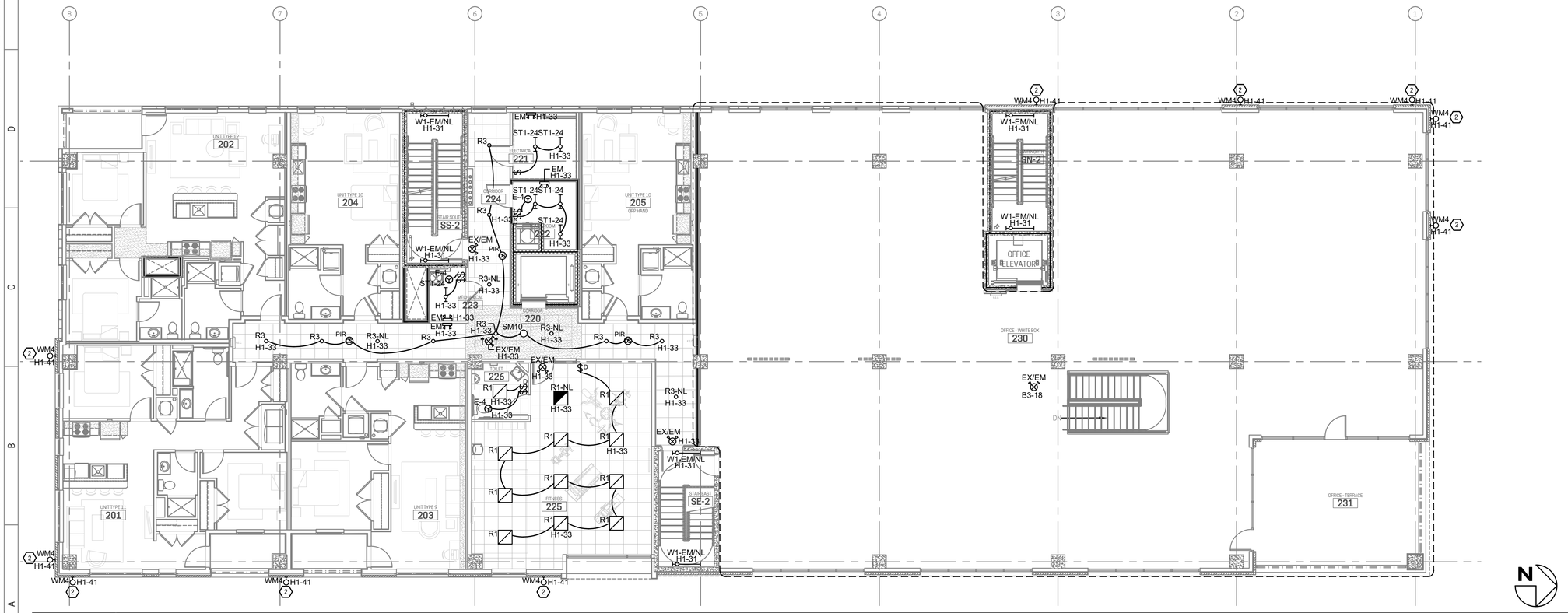
B. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL SWITCHING.

C. LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED.

D. WHERE DIMMERS AND/OR DIMMING SYSTEMS ARE REQUIRED, CONTRACTOR TO FURNISH DIMMERS THAT ARE COMPATIBLE WITH FIXTURE SOURCE AND RATED FOR THE WATTAGE OF THE DIMMING ZONE. PROVIDE ADDITIONAL DIMMERS AS REQUIRED TO MEET ZONE LOAD REQUIREMENTS.

KEYED SHEET NOTES

1. PROVIDE BRANCH CIRCUIT FOR EXTERIOR BUILDING MOUNTED SIGNAGE. FIELD VERIFY LOCATION WITH GC.
   1.1. JUNCTION BOX TO BE INSTALLED IN OPENING BELOW BUILDING FACADE.
2. PROVIDE TIMECLOCK FOR EXTERIOR LIGHTING ADJACENT TO HOUSE PANEL.



E201 ELECTRICAL LIGHTING SECOND FLOOR PLAN

1/8"=1'-0"

PARAMOUNT WORKS

NWC KEMPER LANE & E. McMILLAN ST
2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

No.	Issuances / Revisions / Submissions	Date
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PR-10535

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Drawing Title
ELECTRICAL LIGHTING SECOND FLOOR PLAN

Document No.
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PARAMOUNT LAUNCH OVERALL LUMINAIRE SCHED

CALLOUT	DESCRIPTION	MODEL 1
EM	EMERGENCY WALL PACK - W/ 90 MIN. BACKUP	SURE LITES SEL-50
EP	LED ELEVATOR PIT/SHAFT FIXTURE	COOPER VT-17-30
EX/EM	EXIT/EMERGENCY COMBO - 90 MIN. BACKUP	SURE LITES APC-H-7-R
R1	2X2 LED FLAT PANEL	METALUX 22CGTS-L3C3
R3	6" ROUND DOWNLIGHT	SGE6LEDFX-20L-DX-BH27-AR6223FX-MB
RH1	DUAL LAMP LED REMOTE HEAD (EXTERIOR EGRESS ILLUMINATION)	SURE LITES APWR-1
RS	DECORATIVE RECESSED WALL WASH FIXTURE	TBD
SM3	6" ROUND SURFACE MOUNT LED DOWNLIGHT	HALO SMD6R-12-930-WH
SM10	14" LED FLUSH MOUNT	EFFICIENT LIGHTING EL-835-25LED-277V-BN
SM12	12" DECORITIVE SURFACE MOUNTED FIXTURE	TBD
SM24	24" DECORITIVE SURFACE MOUNTED FIXTURE	TBD
ST1-24	2' UTILITY STRIP FIXTURE	METALUX 4SNLED-LD5-24SL-UNV
ST1-48	4' UTILITY STRIP FIXTURE	METALUX 4SNLED-LD5-48SL-UNV
W1-EM/NL	4' DECORATIVE WALL MOUNTED STRIP FIXTURE	4SNLED-LD5-28SL-UNV- L835-CD1
WM4	EXTERIOR UP/DOWN CYLINDER	EFFICIENT LIGHTING EL-1080UD-187LED-BR
WP	EXTERIOR WALL PACK	TBD

* NL DENOTES EGRESS ILLUMINATION

SCOPE OF WORK

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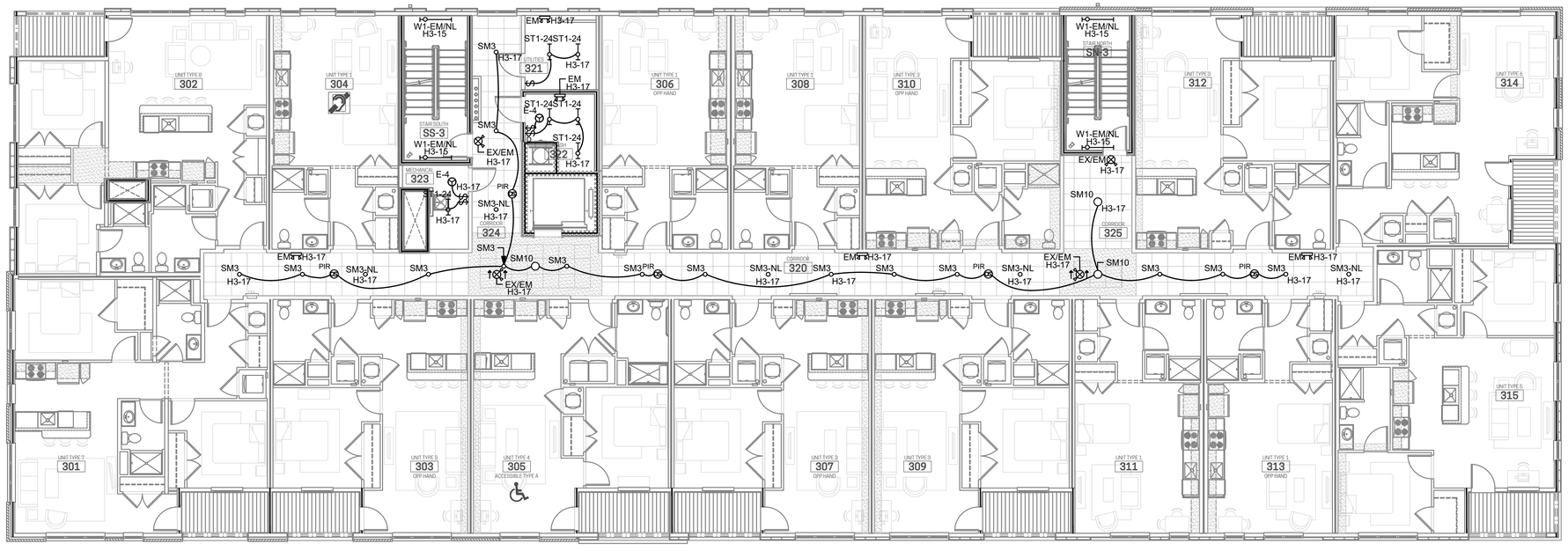
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2. PROVIDE TIMECLOCK FOR EXTERIOR LIGHTING ADJACENT TO HOUSE PANEL.





E202 ELECTRICAL LIGHTING THIRD FLOOR PLAN

1/8"=1'-0"

PARAMOUNT WORKS

NWC KEMPER LANE & E. McMILLAN ST
2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

No.	Issuances / Revisions / Submissions	Date
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Drawing Title
ELECTRICAL LIGHTING THIRD FLOOR PLAN

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PARAMOUNT LAUNCH OVERALL LUMINAIRE SCHEDULE

CALLOUT	DESCRIPTION	MODEL 1	INPUT VA
EM	EMERGENCY WALL PACK - W/ 90 MIN. BACKUP	SURE LITES SEL-50	3
EP	LED ELEVATOR PIT/SHAFT FIXTURE	COOPER VT-17-30	17
EX/EM	EXIT/EMERGENCY COMBO - 90 MIN. BACKUP	SURE LITES APC-H-7-R	3
R1	2X2 LED FLAT PANEL	METALUX 22CGTS-L3C3	29.7
R3	6" ROUND DOWNLIGHT	SGE6LEDFX-20L-DX-BH27-AR6223FX-MB	17
RH1	DUAL LAMP LED REMOTE HEAD (EXTERIOR EGRESS ILLUMINATION)	SURE LITES APWR-1	
RS	DECORATIVE RECESSED WALL WASH FIXTURE	TBD	64
SM3	6" ROUND SURFACE MOUNT LED DOWNLIGHT	HALO SMD6R-12-930-WH	15.3
SM10	14" LED FLUSH MOUNT	EFFICIENT LIGHTING EL-835-25LED-277V-BN	25
SM12	12" DECORITIVE SURFACE MOUNTED FIXTURE	TBD	64
SM24	24" DECORITIVE SURFACE MOUNTED FIXTURE	TBD	64
ST1-24	2' UTILITY STRIP FIXTURE	METALUX 4SNLED-LD5-24SL-UNV	19.3
ST1-48	4' UTILITY STRIP FIXTURE	METALUX 4SNLED-LD5-48SL-UNV	19.3
W1-EM/NL	4' DECORATIVE WALL MOUNTED STRIP FIXTURE	4SNLED-LD5-28SL-UNV- L835-CD1	19.3
WM4	EXTERIOR UP/DOWN CYLINDER	EFFICIENT LIGHTING EL-1080UD-187LED-BR	18
WP	EXTERIOR WALL PACK	TBD	64

* NL DENOTES EGRESS ILLUMINATION

SCOPE OF WORK

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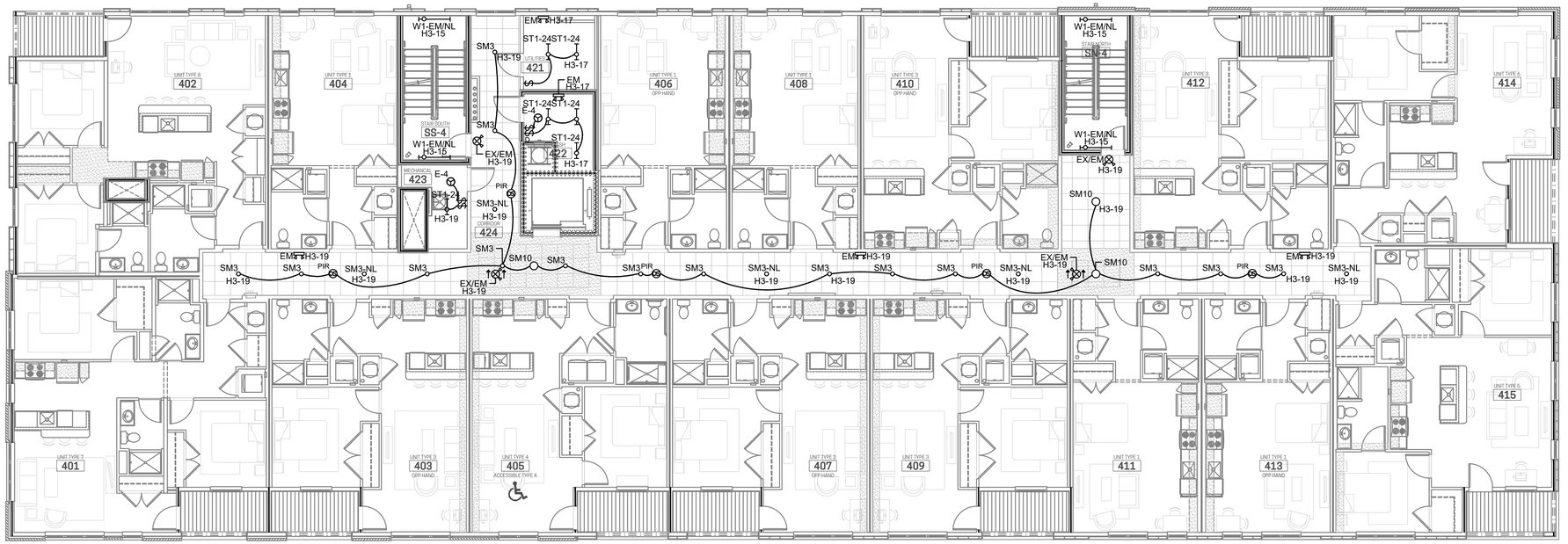
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   1.1. JUNCTION BOX TO BE INSTALLED IN OPENING BELOW BUILDING FACADE.
2. PROVIDE TIMECLOCK FOR EXTERIOR LIGHTING ADJACENT TO HOUSE PANEL.



N

E203 ELECTRICAL LIGHTING FOURTH FLOOR PLAN

1/8"=1'-0"

PARAMOUNT WORKS

NWC KEMPER LANE & E. McMILLAN ST
2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

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Newport, KY 41071 (859) 261-0585
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ELECTRICAL LIGHTING FOURTH FLOOR PLAN

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PARAMOUNT LAUNCH OVERALL LUMINAIRE SCHEDULE

CALLOUT	DESCRIPTION	MODEL 1	INPUT VA
EM	EMERGENCY WALL PACK - W/ 90 MIN. BACKUP	SURE LITES SEL-50	3
EP	LED ELEVATOR PIT/SHAFT FIXTURE	COOPER VT-17-30	17
EX/EM	EXIT/EMERGENCY COMBO - 90 MIN. BACKUP	SURE LITES APC-H-7-R	3
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SM3	6" ROUND SURFACE MOUNT LED DOWNLIGHT	HALO SMD6R-12-930-WH	15.3
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WM4	EXTERIOR UP/DOWN CYLINDER	EFFICIENT LIGHTING EL-1080UD-187LED-BR	18
WP	EXTERIOR WALL PACK	TBD	64

* NL DENOTES EGRESS ILLUMINATION

SCOPE OF WORK

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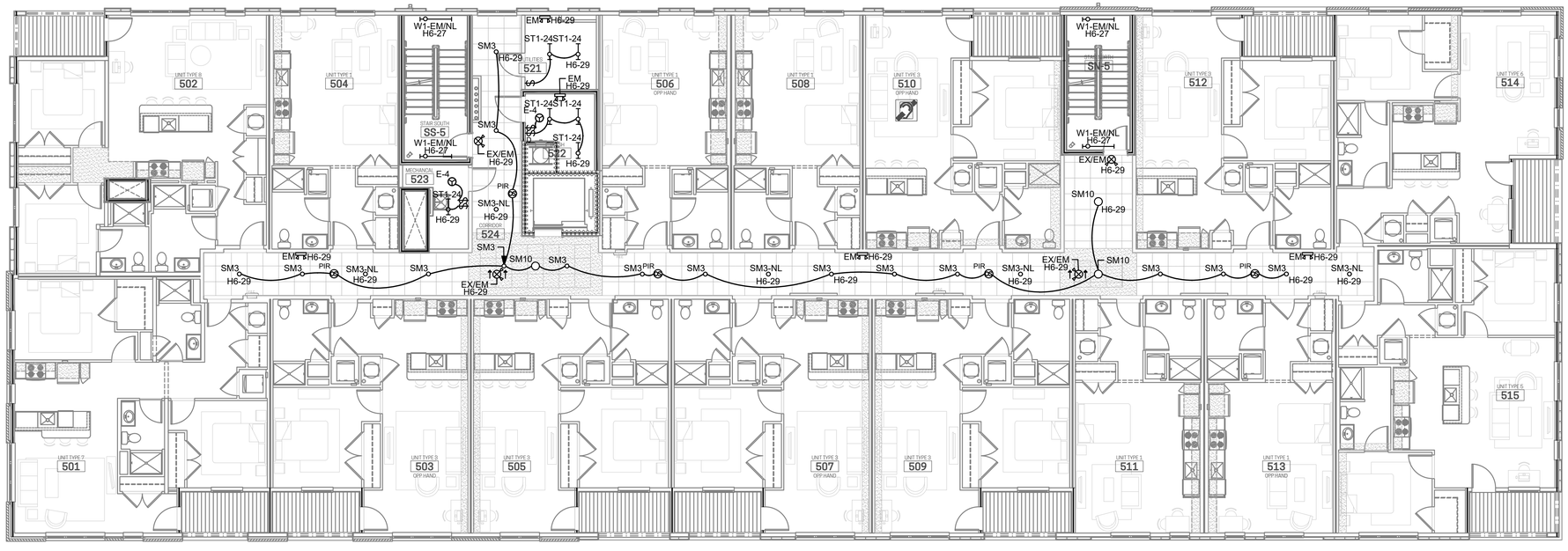
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E204 ELECTRICAL LIGHTING FIFTH FLOOR PLAN

1/8"=1'-0"

PARAMOUNT WORKS

NWC KEMPER LANE & E. McMILLAN ST
2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

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ELECTRICAL LIGHTING FIFTH FLOOR PLAN

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PARAMOUNT LAUNCH OVERALL LUMINAIRE SCHEDULE

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EM	EMERGENCY WALL PACK - W/ 90 MIN. BACKUP	SURE LITES SEL-50	3
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A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

GENERAL NOTES - LIGHTING

A. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES.

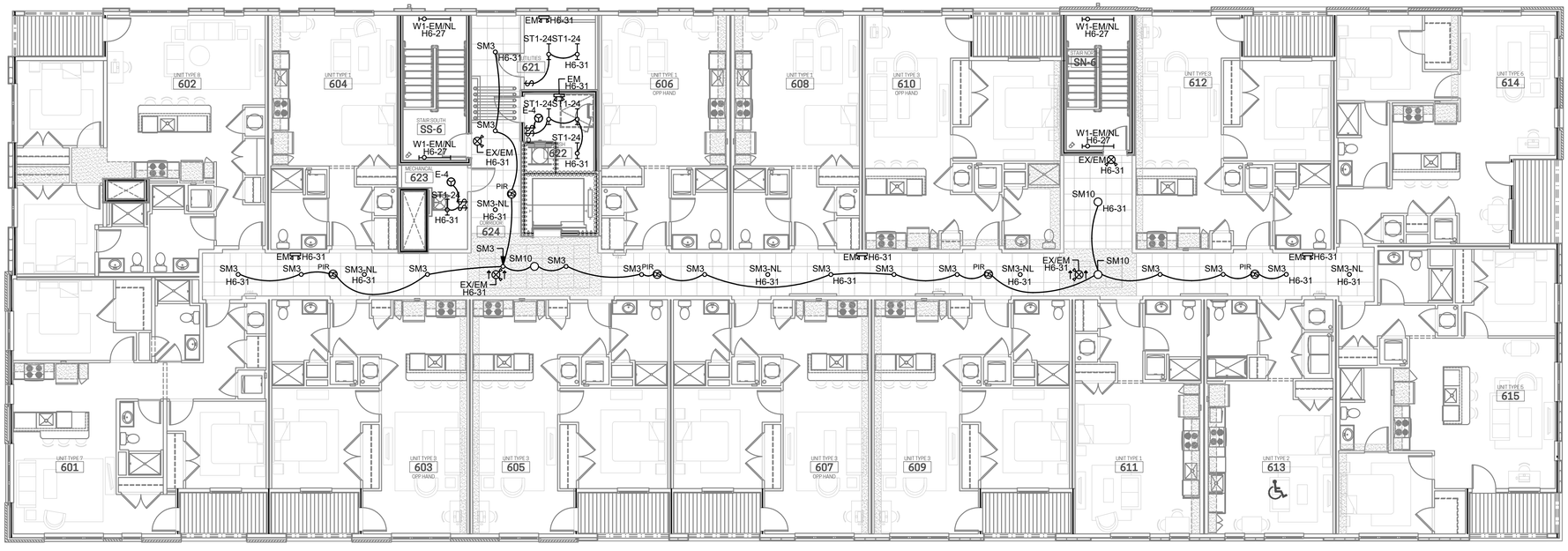
B. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL SWITCHING.

C. LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED.

D. WHERE DIMMERS AND/OR DIMMING SYSTEMS ARE REQUIRED, CONTRACTOR TO FURNISH DIMMERS THAT ARE COMPATIBLE WITH FIXTURE SOURCE AND RATED FOR THE WATTAGE OF THE DIMMING ZONE. PROVIDE ADDITIONAL DIMMERS AS REQUIRED TO MEET ZONE LOAD REQUIREMENTS.

(#) KEYED SHEET NOTES

1. PROVIDE BRANCH CIRCUIT FOR EXTERIOR BUILDING MOUNTED SIGNAGE. FIELD VERIFY LOCATION WITH GC.
   1.1. JUNCTION BOX TO BE INSTALLED IN OPENING BELOW BUILDING FACADE.
2. PROVIDE TIMECLOCK FOR EXTERIOR LIGHTING ADJACENT TO HOUSE PANEL.





E205 | ELECTRICAL LIGHTING SIXTH FLOOR PLAN

1/8"=1'-0"

PARAMOUNT WORKS

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PR-10535

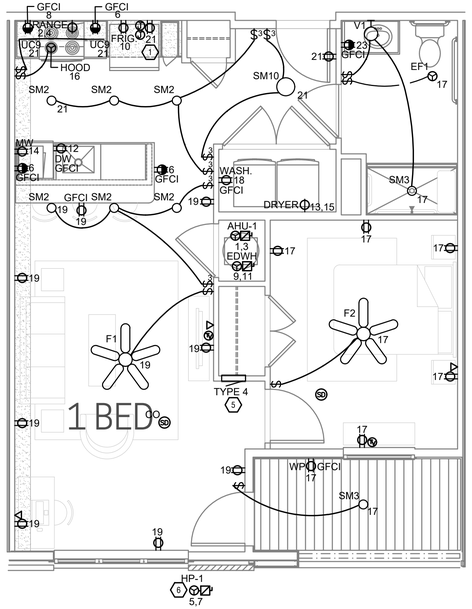
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Drawing Title
ELECTRICAL LIGHTING SIXTH FLOOR PLAN

Document No.
E205

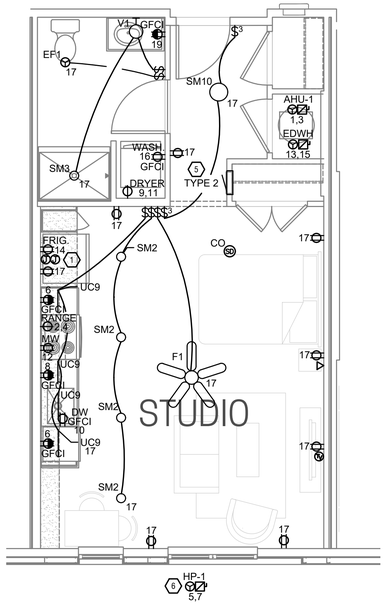
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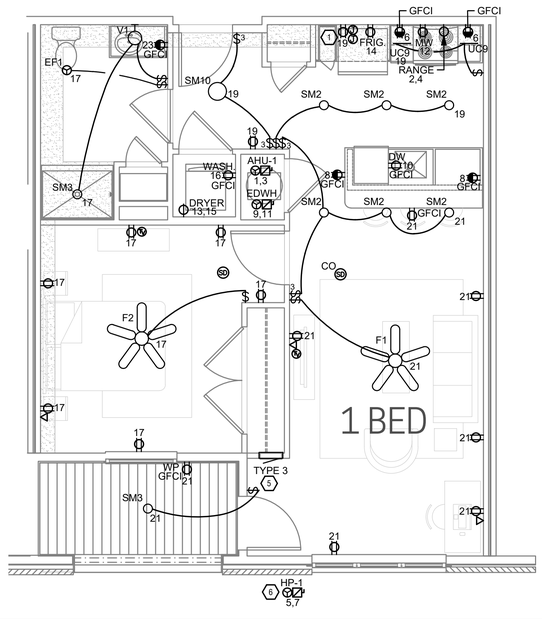
E4 **ENLARGED PLAN - UNIT TYPE 4**

1/4"=1'-0"



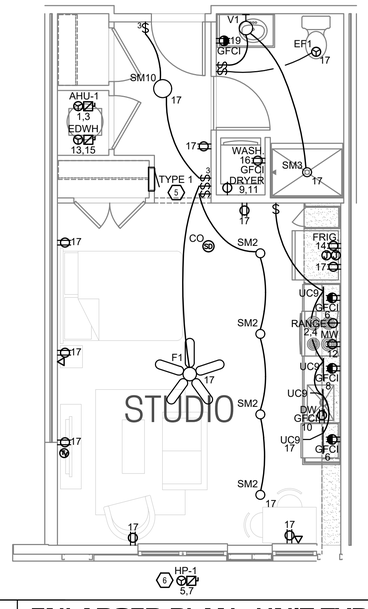
E2 **ENLARGED PLAN - UNIT TYPE 2**

1/4"=1'-0"



E3 **ENLARGED PLAN - UNIT TYPE 3**

1/4"=1'-0"



E1 **ENLARGED PLAN - UNIT TYPE 1**

1/4"=1'-0"

SCOPE OF WORK

NEW CONSTRUCTION OF A MIXED USE MUTLI-TENANT BUILDING. COMMERCIAL TENANTS ON THE FIRST AND SECOND FLOORS AND RESIDENTIAL TENANTS ON FLOORS 2-6.

SCOPE OF WORK INCLUDES ELECTRICAL EQUIPMENT, FEEDERS, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES.

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B. FURNISH AND INSTALL SMOKE DETECTORS AS REQUIRED BY CODE. SMOKE DETECTORS SHOWN ON EBS DRAWINGS ARE INTENDED TO CONVEY GENERAL COMPLIANCE FOR BUILDING DEPARTMENT SUBMITTALS. PROVIDE INTERWIRING BETWEEN SMOKE DETECTORS LOCATED IN THE SAME UNIT. SMOKE DETECTORS SHALL BE HARD WIRED WITH BATTERY BACK-UP. FIRE ALARM AND/OR SMOKE DETECTOR SYSTEMS ARE FURNISHED ON A DESIGN-BUILD BASIS BY THE ELECTRICIAN.

C. THE INTENT OF DRAWINGS SHOWING SMOKE ALARM LOCATIONS IS TO DEMONSTRATE GENERAL CONFORMANCE WITH APPLICABLE CODES. ELECTRICAL CONTRACTOR TO COORDINATE FINAL PLACEMENT OF SMOKE ALARMS WITH ACTUAL CEILING CONFIGURATION, CEILING FAN LOCATIONS, DISTANCE TO BATHROOMS, DISTANCE TO COOKING APPLIANCES, ETC. AND INSTALL PER THE REQUIREMENTS OF APPLICABLE CODES.

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E. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATIONS OF ALL LIGHT FIXTURES.

F. PROVIDE CONDUIT AND PULL STRING TO APPROVED LOCATION FOR VOICE, DATA, AND CATV CABLES.

G. CIRCUITING ON DRAWINGS AND PANEL SCHEDULE IS SHOWN TYPICAL FOR SIMILAR UNITS. REFER TO DWELLING UNIT LOAD SUMMARIES FOR INDIVIDUAL DWELLING UNIT LOAD CALCULATIONS

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J. GFCI/AFCI DEVICES MUST BE INSTALLED IN ACCESSIBLE LOCATIONS AND NOT PLACED BEHIND EQUIPMENT.

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2. SENSORY ITEMS ONLY NEED TO BE INSTALLED IN UNITS 304 AND 510. ALL OTHER UNITS ARE TO BE INSTALLED WITHOUT THESE ITEMS.
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5. ELECTRICAL EQUIPMENT PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
6. REFER TO SHEET E106 FOR MECHANICAL UNIT LOCATIONS.

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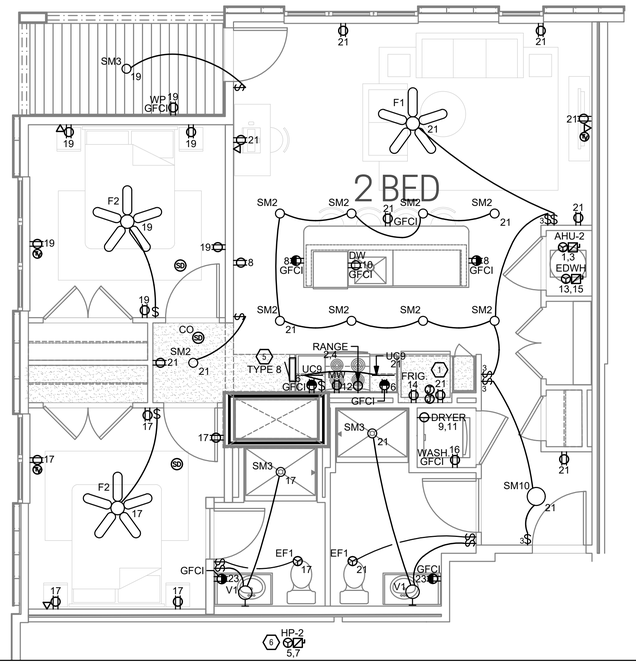
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Drawing Title
ELECTRICAL ENLARGED PLANS

Document No.
E300

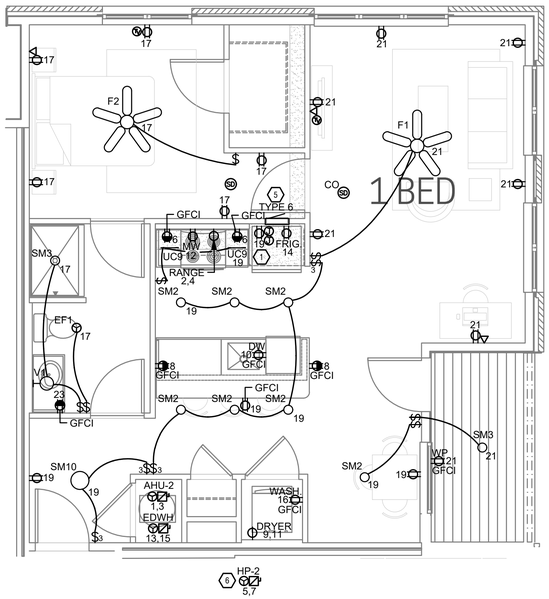
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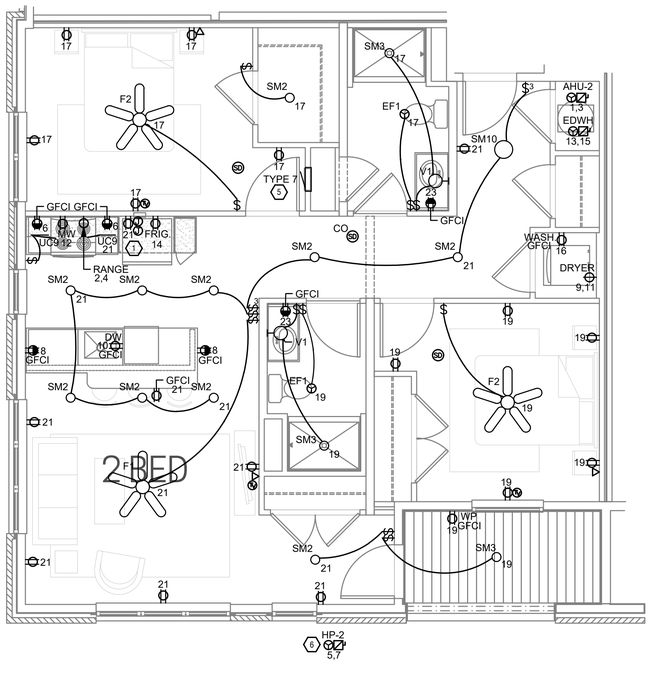
E8 **ENLARGED PLAN - UNIT TYPE 8**

1/4"=1'-0"



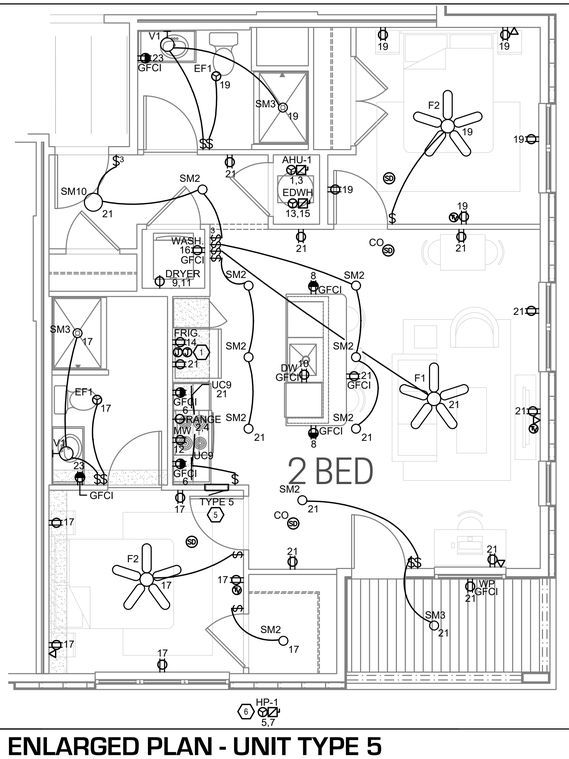
E6 **ENLARGED PLAN - UNIT TYPE 6**

1/4"=1'-0"



E7 **ENLARGED PLAN - UNIT TYPE 7**

1/4"=1'-0"



E5 **ENLARGED PLAN - UNIT TYPE 5**

1/4"=1'-0"

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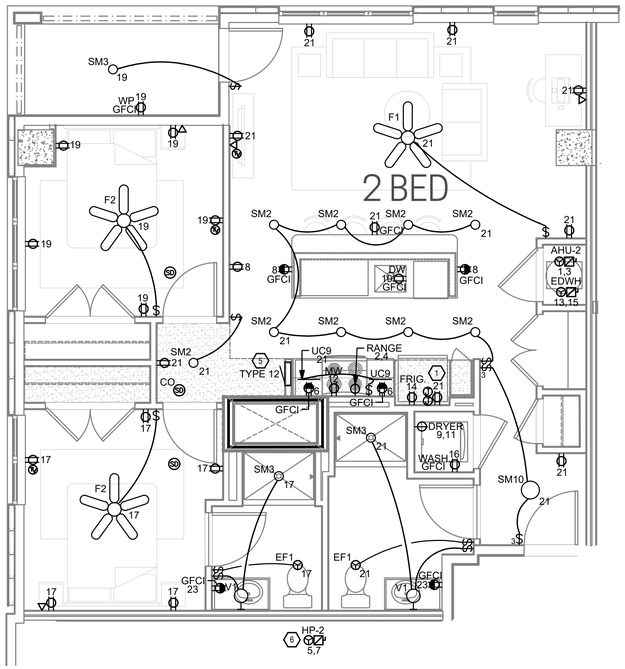
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Drawing Title
ELECTRICAL ENLARGED PLANS

Document No.
E301

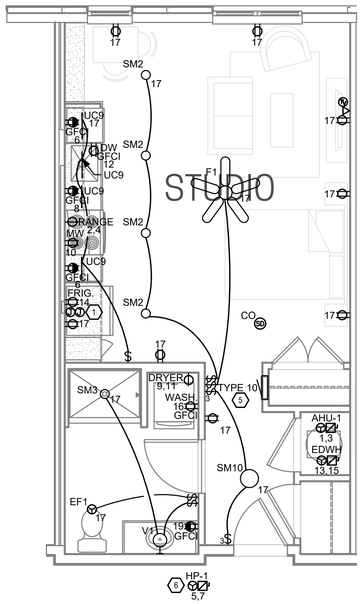
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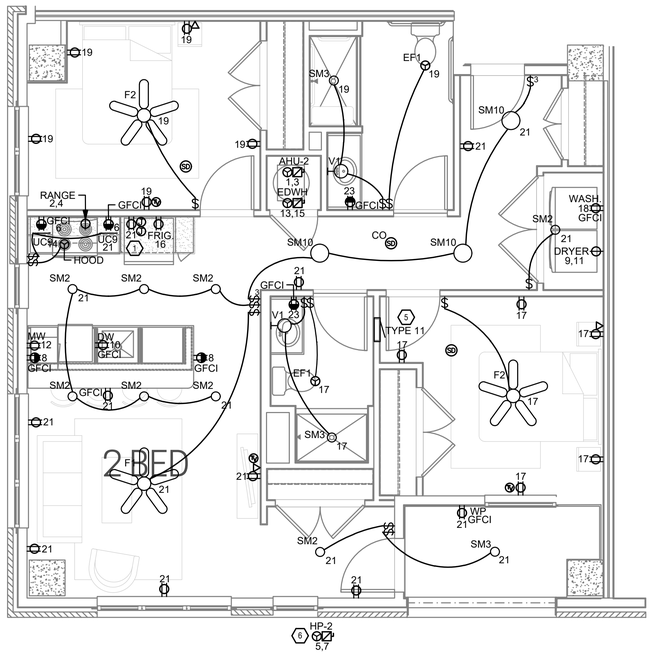
E12 ENLARGED PLAN - UNIT TYPE 12

1/4"=1'-0"



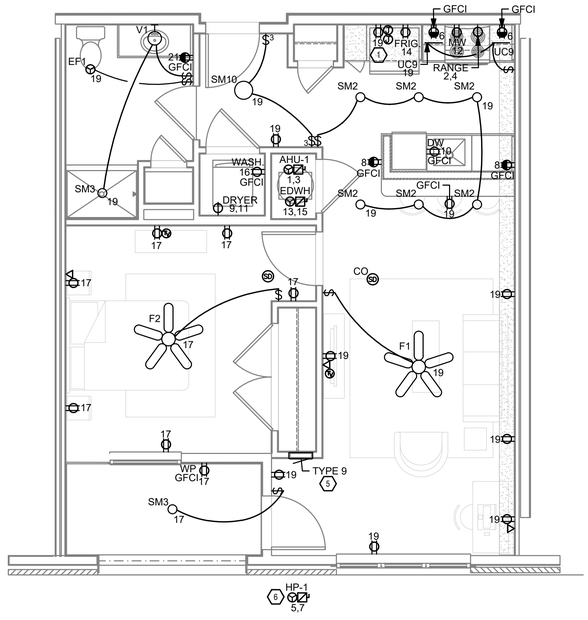
E10 ENLARGED PLAN - UNIT TYPE 10

1/4"=1'-0"



E11 ENLARGED PLAN - UNIT TYPE 11

1/4"=1'-0"



E9 ENLARGED PLAN - UNIT TYPE 9

1/4"=1'-0"

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D. WHERE CIRCUITING IS SHOWN TYPICAL FOR MULTIPLE UNITS, COORDINATE BREAKER/WIRE SIZES FOR EQUIPMENT FURNISHED BY OTHERS WITH SHOP DRAWINGS PROVIDED BY THE CONTRACTOR SUPPLYING THE EQUIPMENT. VERIFY BREAKER/WIRE SIZES FOR EQUIPMENT OR APPLIANCE FOR EACH UNIT PRIOR TO ROUGH-IN.

E. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATIONS OF ALL LIGHT FIXTURES.

F. PROVIDE CONDUIT AND PULL STRING TO APPROVED LOCATION FOR VOICE, DATA, AND CATV CABLES.

G. CIRCUITING ON DRAWINGS AND PANEL SCHEDULE IS SHOWN TYPICAL FOR SIMILAR UNITS. REFER TO DWELLING UNIT LOAD SUMMARIES FOR INDIVIDUAL DWELLING UNIT LOAD CALCULATIONS

H. COORDINATE RECEPTACLE, PHONE, AND TV DEVICE PLACEMENT WITH FURNITURE LOCATIONS. VERIFY WITH ARCHITECT PRIOR TO ROUGH IN. LOCATIONS SHOWN ON DRAWINGS ARE INTENDED TO CONVEY DESIGN INTENT, AND DEMONSTRATE GENERAL COMPLIANCE WITH CODE. WHERE ACTUAL STUD LOCATIONS REQUIRE DEVICE LOCATIONS TO BE ADJUSTED, ADDED OR MINOR VARIATIONS AMONG UNITS THAT ARE SHOWN AS "TYPICAL", ETC. OCCUR, CONTRACTOR, UNDER HIS BASE BID, TO MAKE NECESSARY ADJUSTMENTS / ADDITIONS IN THE FIELD TO MAINTAIN NEC DWELLING UNIT RECEPTACLE SPACING REQUIREMENTS. WHERE ACTUAL WINDOW CONSTRUCTION PROHIBITS THE INSTALLATION OF A WALL RECEPTACLE, PROVIDE FLOOR RECEPTACLE WITHIN 18 INCHES OF THE BASE OF THE WALL. PROVIDE TAMPER PROOF RECEPTACLES AS REQUIRED BY NEC ART. 406.12.

I. LIGHTING INSTALLED IN CLOTHES CLOSETS SHALL BE INSTALLED IN ACCORDANCE WITH NEC 410.16.

J. GFCI/AFCI DEVICES MUST BE INSTALLED IN ACCESSIBLE LOCATIONS AND NOT PLACED BEHIND EQUIPMENT.

(#) KEYED SHEET NOTES - TYPICALS

1. RECEPTACLE AND J-BOXES SHOWN SERVE APT UNIT LO-VOLT DEMARC. USE OWNER APPROVED CABLE (CONFIRM REQUIRED CABLE TYPE WITH GC PRIOR TO ROUGH-IN) FOR TV LOCATIONS SHOWN. EX TO PROVIDE ALL HOMERUN CABLING INCLUDING FROM ABOVE FRIDGE DEMARC TO DEVICE(S) SHOWN (TYP. ALL UNITS). SEE LEGEND FOR MORE INFORMATION.
2. SENSORY ITEMS ONLY NEED TO BE INSTALLED IN UNITS 304 AND 510. ALL OTHER UNITS ARE TO BE INSTALLED WITHOUT THESE ITEMS.
3. INSTALL HARDWIRED DOORBELL.
   - 3.1. THE NOTIFIER INSIDE THE UNIT SHALL BE BOTH AUDIBLE AND VISUAL. AUDIBLE DEVICES SHALL BE EQUIPPED WITH VOLUME CONTROLS.
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6. REFER TO SHEET E106 FOR MECHANICAL UNIT LOCATIONS.

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ELECTRICAL ENLARGED PLANS

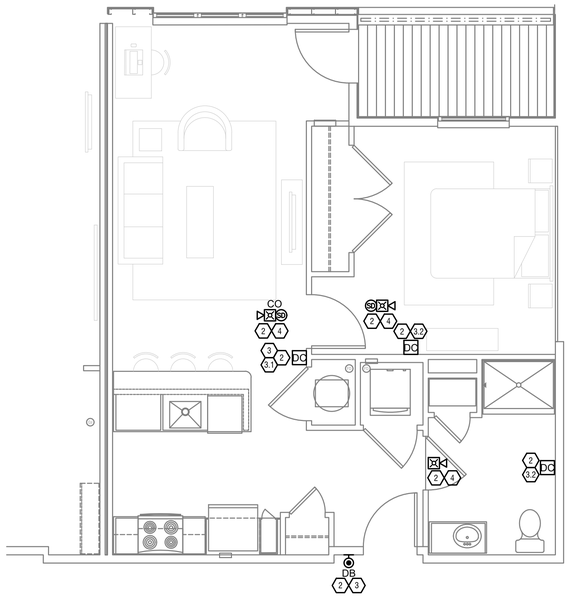
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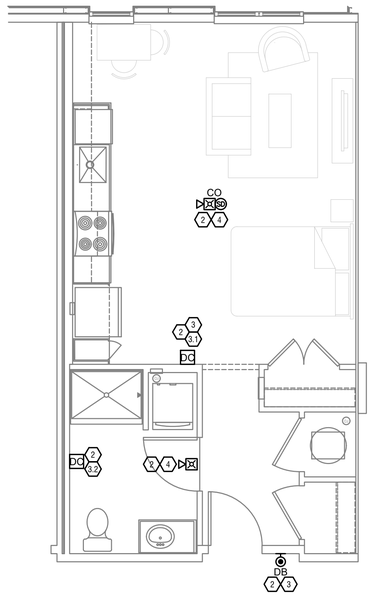
DWELLING UNIT LIGHT FIXTURES LUMINAIRE SCHEDULE

CALLOUT	DESCRIPTION	MODEL 1	INPUT VA
F1	52" CEILING FAN W/ LED LIGHT	HUNTER 50380	18
F2	36" CEILING FAN W/ LED LIGHT	HUNTER 59303	18
SM2	4" ROUND SURFACE MOUNT LED DOWNLIGHT	HALO SMD4S-6-930-WH	9.7
SM3	6" ROUND SURFACE MOUNT LED DOWNLIGHT	HALO SMD6R-12-930-WH	15.3
SM10	14" LED FLUSH MOUNT	EFFICIENT LIGHTING EL-835-25LED-277V-BN	25
UC9	9" UNDER CABINET LIGHT	HALO HU11-09-D9-S-P	4.5
V1	VANITY LIGHT	EFFICIENT LIGHTING EL228L-25LEDAC-BN	25



E14 **ENLARGED PLAN - UNIT TYPE 3 SENSORY IMPAIRED UNIT**

1/4"=1'-0"



E13 **ENLARGED PLAN - UNIT TYPE 1 - SENSORY IMPAIRED UNIT**

1/4"=1'-0"

SCOPE OF WORK

NEW CONSTRUCTION OF A MIXED USE MUTLI-TENANT BUILDING. COMMERCIAL TENANTS ON THE FIRST AND SECOND FLOORS AND RESIDENTIAL TENANTS ON FLOORS 2-6.

SCOPE OF WORK INCLUDES ELECTRICAL EQUIPMENT, FEEDERS, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES.

SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION.

GENERAL NOTES - OVERALL PROJECT

A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

GENERAL NOTES - DWELLING UNITS

A. PROVIDE AFCI PROTECTION IN ACCORDANCE WITH NEC 210.12. AFCI PROTECTION MUST BE PROVIDED WHERE EXISTING BRANCH CIRCUIT WIRING IS MODIFIED, OR RECEPTACLES ARE REPLACED, IN ACCORDANCE WITH NEC AND LOCAL ELECTRICAL INSPECTION REQUIREMENTS. REFER TO NEC 406.4 (D) AND NEC 210.12 (D)

B. FURNISH AND INSTALL SMOKE DETECTORS AS REQUIRED BY CODE. SMOKE DETECTORS SHOWN ON EBS DRAWINGS ARE INTENDED TO CONVEY GENERAL COMPLIANCE FOR BUILDING DEPARTMENT SUBMITTALS. PROVIDE INTERWIRING BETWEEN SMOKE DETECTORS LOCATED IN THE SAME UNIT. SMOKE DETECTORS SHALL BE HARD WIRED WITH BATTERY BACK-UP. FIRE ALARM AND/OR SMOKE DETECTOR SYSTEMS ARE FURNISHED ON A DESIGN-BUILD BASIS BY THE ELECTRICIAN.

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EXTERIOR | INTERIOR

SIXTH

601	602	603	604	605	606	607	608	609	610	611	612	613	614	615
150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO
TYPE 7	TYPE 8	TYPE 3	TYPE 1	TYPE 3	TYPE 1	TYPE 3	TYPE 1	TYPE 3	TYPE 3	TYPE 1	TYPE 3	TYPE 1	TYPE 6	TYPE 5
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

EXTERIOR | INTERIOR

FIFTH

501	502	503	504	505	506	507	508	509	510	511	512	513	514	515
150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO
TYPE 7	TYPE 8	TYPE 3	TYPE 1	TYPE 3	TYPE 1	TYPE 3	TYPE 1	TYPE 3	TYPE 3	TYPE 1	TYPE 3	TYPE 1	TYPE 6	TYPE 5

MC5
2000A
MLO

150/2	150/2	150/2	150/2	150/2	150/2
150/2	150/2	150/2	150/2	150/2	150/2
150/2	150/2	150/2	150/2	150/2	150/2
150/2	150/2	150/2	150/2	150/2	150/2
150/2	150/2	150/2	150/2	150/2	150/2

EXTERIOR | INTERIOR

FOURTH

401	402	403	404	405	406	407	408	409	410	411	412	413	414	415
150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO
TYPE 7	TYPE 8	TYPE 3	TYPE 1	TYPE 4	TYPE 1	TYPE 3	TYPE 1	TYPE 3	TYPE 3	TYPE 1	TYPE 3	TYPE 1	TYPE 6	TYPE 5
2	2	2	2	2	2	6	2	2	2	2	2	2	2	2

13

EXTERIOR | INTERIOR

THIRD

301	302	303	304	305	306	307	308	309	310	311	312	313	314	315
150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO	150A MLO
TYPE 7	TYPE 8	TYPE 3	TYPE 1	TYPE 4	TYPE 1	TYPE 3	TYPE 1	TYPE 3	TYPE 3	TYPE 1	TYPE 3	TYPE 1	TYPE 6	TYPE 5

MC3
2000A
MLO

150/2	150/2	150/2	150/2	150/2	150/2	150/2
150/2	150/2	150/2	150/2	150/2	150/2	150/2
150/2	150/2	150/2	150/2	150/2	150/2	150/2
150/2	150/2	150/2	150/2	150/2	150/2	150/2
150/2	150/2	150/2	150/2	150/2	150/2	150/2

EXTERIOR | INTERIOR

SECOND

201	202	203	204	205
150A MLO	150A MLO	150A MLO	150A MLO	150A MLO
TYPE 11	TYPE 12	TYPE 9	TYPE 10	TYPE 10
2	2	2	2	2

13

EXTERIOR | INTERIOR

GRADE

SD-1
2000A
2000/3

14

SEE SHEET E401 FOR CONTINUATION

SINGLE LINE DIAGRAM (SERVICE #1)

GENERAL NOTES-SINGLE LINE DIAGRAM

A. ALL BREAKERS SHALL BE RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT AT THEIR LOCATION. WHERE SERIES- RATED COMBINATIONS ARE USED IN ACCORDANCE WITH NEC 240.86 (B) AND (C) THE CONTRACTOR AND/OR HIS EQUIPMENT SUPPLIER MUST PROVIDE APPROPRIATE DOCUMENTATION AND LABELING.

B. WHERE BREAKERS WITH ADJUSTABLE SETTINGS ARE FURNISHED TO THE PROJECT, THE MANUFACTURER'S REP SHALL IDENTIFY AND PROVIDE THE APPROPRIATE SETTINGS TO THE ELECTRICAL CONTRACTOR FOR HIS USE IN INSTALLATION.

C. PANEL SCHEDULES INDICATE BREAKER SIZE ONLY. PROVIDE AFCI/GFCI PROTECTION AS REQUIRED BY NEC. COORDINATE FINAL BREAKER SIZES/TYPES FOR ITEMS FURNISHED BY OTHERS WITH SHOP DRAWINGS OR PRODUCT INFORMATION FOR ACTUAL EQUIPMENT BEING CONNECTED

D. ELECTRICAL CONTRACTOR SHALL NOT ORDER OR PURCHASE ANY MATERIALS OR EQUIPMENT UNTIL PERMIT DRAWINGS HAVE BEEN APPROVED BY AHJ.

E. PROVIDE SELECTIVE COORDINATION FOR EMERGENCY SYSTEM OVERCURRENT PROTECTION DEVICES IN ACCORDANCE WITH NEC 700.27.

F. PROVIDE GROUND-FAULT PROTECTION FOR EQUIPMENT IN ACCORDANCE WITH NEC 240.13 AND NEC 230.95.

G. OVERCURRENT PROTECTION DEVICES SUPPLYING TRANSFORMERS WHICH ARE NOT LOCATED WITHIN SIGHT OF THEIR OVERCURRENT PROTECTION SHALL BE LOCKABLE AND THE TRANSFORMER SHALL BE FIELD MARKED WITH THE LOCATION OF THE OVERCURRENT PROTECTION DEVICE.

H. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.

FEEDER SCHEDULE

ID	CONDUIT AND FEEDER
1	1-1/2"C.,3#1/0 CU.,#1/0 CU N.,#6 CU G
2	1-1/2"C.,2#3/0 AL.,#3/0 AL N.,#4 AL G
3	2"C.,3#3/0 AL.,#3/0 AL N.,#4 AL G
4	2"C.,3#3/0 CU.,#2 CU G
5	1-1/2"C.,3#3/0 CU
6	2-1/2"C.,3#250kcmil AL.,#250kcmil AL N.,#4 AL G
7	2"C.,3#3/0 CU.,#3/0 CU N
8	2-1/2"C.,3#300kcmil AL.,#300kcmil AL N.,#2 AL G
9	(2)3"C.,3#500kcmil AL.,#500kcmil AL N.,#2/0 AL G
10	(2)3"C.,3#500kcmil AL.,#500kcmil AL N
11	(4)3"C.,3#350kcmil AL.,#350kcmil AL N.,#4/0 AL G
12	(4)2-1/2"C.,3#350kcmil AL.,#350kcmil AL N
13	(6)3-1/2"C.,3#600kcmil AL.,#600kcmil AL N.,#400kcmil AL G
14	(6)3-1/2"C.,3#600kcmil AL.,#600kcmil AL N

SIZING METHOD: COMPACT AL 75°C 100A AND ABOVE, CU 75°C BELOW 100A

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ELECTRICAL LEGEND

*SEE LIGHT FIXTURE SCHEDULE FOR FIXTURE TYPES.

- $ SINGLE POLE LIGHT SWITCH
- $3 THREE WAY LIGHT SWITCH
- $4 FOUR WAY LIGHT SWITCH
- $D DIMMER SWITCH
- $FS FAN SPEED CONTROL
- OCDT OCC SENSOR - CEILING - DUAL TECHNOLOGY
- OCPIR OCC SENSOR - CEILING - PASSIVE INFRARED
- $DT OCC SENSOR - WALL - DUAL TECHNOLOGY
- $PIR OCC SENSOR - WALL - PASSIVE INFRARED
- OCC SENSOR POWER PACK
- OCC SENSOR POWER PACK - 2 CKT
- DUPLEX RECEPTACLE
- USB DUPLEX RECEPTACLE W/USB JACKS
- COUNTER HEIGHT DUPLEX RECEPTACLE
- QUAD RECEPTACLE
- COUNTER HEIGHT QUAD RECEPTACLE
- (CLNG) CEILING (SHOW WINDOW) RECEPTACLE
- GFCI DUPLEX RECEPTACLE WITH GFCI PROTECTION
- GFCI COUNTER HEIGHT DUPLEX RECEPTACLE WITH GFCI PROTECTION
- SPLIT-WIRED (SWITCHED) RECEPTACLE
- WP GFCI WEATHER PROOF RECEPTACLE WITH GFCI PROTECTION
- DW GFCI DISHWASHER RECEPTACLE WITH GFCI PROTECTION
- DISP GARBAGE DISPOSAL
- MW MICROWAVE RECEPTACLE
- FRIG REFRIGERATOR RECEPTACLE
- RANGE RANGE - 208-240V/ 1-PHASE 50 AMP RECEPTACLE
- WASH GFCI WASHER RECEPTACLE WITH GFCI PROTECTION
- DRYER DRYER - 208-240V/ 1-PHASE 30 AMP RECEPTACLE
- W/D STACKED WASHER/DRYER - 208-240V/ 1-PHASE 30 AMP RECEPTACLE
- DUPLEX - MONUMENT FLOOR BOX
- DUPLEX - RECESSED FLOOR BOX
- PANELBOARD
- PANELBOARD W/ BUS (MCB OR MLO) - SINGLE LINE DIAGRAM
- TRANSFORMER - SINGLE LINE DIAGRAM
- TRANSFORMER W/ GROUND - SINGLE LINE DIAGRAM
- PADMOUNT TRANSFORMER - SINGLE LINE DIAGRAM
- AUTOMATIC TRANSFER SWITCH (ATS) - SINGLE LINE DIAGRAM
- STANDBY/EMERGENCY GENERATOR - SINGLE LINE DIAGRAM
- * METER BASE - SINGLE LINE DIAGRAM
- FUSED DISCONNECT - SINGLE LINE DIAGRAM
- * CT CABINET - SINGLE LINE DIAGRAM

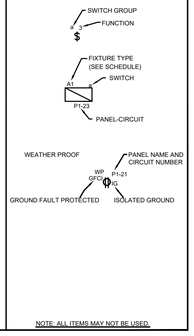
- L5-20R **LOCKING 125V/20 AMP - RECEPTACLE**
- L6-20R LOCKING 250V/20 AMP (1-PHASE) - RECEPTACLE
- L5-30R LOCKING 125V/30 AMP - RECEPTACLE
- L6-30R LOCKING 250V/20 AMP (1-PHASE) - RECEPTACLE
- PP FURNITURE POWER POLE - RECEPTACLE
- RFF FURNITURE RECESSED FLOOR FEED
- WFF FURNITURE WALL FEED
- FB RECESSED FLOOR BOX - MULTI-SERVICE (POWER/DATA)
- AV RECESSED FLOOR BOX - MULTI-SERVICE W/AV
- RECESSED MULTI-SERVICE POKE THRU
- SPECIAL CONNECTION
- SIMPLEX RECEPTACLE
- EQUIPMENT CONNECTION
- $M MANUAL MOTOR STARTER
- NON-FUSED DISCONNECT
- FUSED DISCONNECT
- FUSED DISCONNECT W/MAGNETIC MOTOR STARTER
- JUNCTION BOX
- HNE HOME NETWORK ENCLOSURE
- SECURITY CAMERA
- DATA LOCATION (RING & STRING, U.N.O)
- VOICE DROP - LOCATION
- VOICE/DATA DROP - LOCATION
- CABLE TV (COAX) - LOCATION
- CR CARD READER
- DR DOOR RELEASE - ACCESS CONTROL
- DS DOOR STRIKE - ACCESS CONTROL
- ML MAG-LOCK - ACCESS CONTROL
- PS POSITION SWITCH
- PR PROXY READER
- RE REQUEST TO EXIT SWITCH
- WAP WIRELESS INTERNET ACCESS POINT
- DOOR HOLD - FIRE ALARM
- DSD DUCT SMOKE DETECTOR
- FABP FIRE ALARM BOOSTER PANEL
- FACP FIRE ALARM CONTROL PANEL
- FARA FIRE ALARM REMOTE ANNUNCIATOR
- SPRINKLER FLOW SWITCH
- HEAT DETECTOR - FIRE ALARM
- HORN - FIRE ALARM
- HORN/STROBE - FIRE ALARM
- PIV POST INDICATOR VALVE - (PIV)
- PRE-A PRE-ACTION PANEL
- PRESSURE SWITCH
- PULL STATION - FIRE ALARM
- SMOKE DAMPER
- SMOKE DETECTOR
- CO COMBINATION SMOKE/CO2 DETECTOR
- SPEAKER - FIRE ALARM
- SPEAKER/STROBE - FIRE ALARM
- STROBE - FIRE ALARM

* FINAL METER CONFIGURATION TBD/ APPROVED BY LOCAL UTILITY COMPANY PRIOR TO CONSTRUCTION.

ABBREVIATIONS:

#	Number	HP	Heat Pump
Ω	Ohm	HZ	Hertz
Φ	Phase	IG	Isolated Ground
A	Amperes	IMC	Intermediate Metal Conduit
AC	Alternating Current	KCMIL	Thousand Circular Mils
A/C	Air Conditioning	KVA	Kilovolt-Amperes
AFCI	Arc Fault Current Interrupter	LFMC	Liquid Tight Metal Conduit
AHU	Air Handling Unit	LTG	Lighting
AIC	Ampere Interrupting Capacity	LRA	Locked Rotor Amperes
AL	Aluminum	MC	Metal Clad Cable
ATS	Automatic Transfer Switch	MCB	Main Circuit Breaker
ATC	Automatic Temperature Control	MCC	Motor Control Center
AWG	American Wire Gauge	MLO	Main Lug Only
C	Conduit	NC	Normally Closed
CATV	Cable Television	NEC	National Electrical Code
CB	Critical Branch	NEMA	National Electrical Manufactures Association
C/B	Circuit Breaker	NFPA	National Fire Protection Association
CKT	Circuit	NL	Night Lighting (Egress Illumination)
CCTV	Closed Circuit Television	NO	Normally Open
CT	Current Transformer	NTS	Not To Scale
CU	Condensing Unit	P	Pole
DC	Direct Current	PB	Push Button or Panic Button or Pull Box
DIA	Diameter	PNL	Panel
EC	Electrical Contractor	PWR	Power
EF	Exhaust Fan	QTY	Quantity
ELEV	Elevator	REQ	Required
EM	Emergency	RMC	Rigid Metal Conduit
EMT	Electrical Metallic Tubing	RNC	Rigid Non-Metallic Conduit
EPO	Emergency Power Off	RTU	Roof Top Unit
EWC	Electric Water Cooler	ST	Shunt Trip
EWH	Electric Water Heater	SW	Switch
FA	Fire Alarm	TSTAT	Thermostat
FAA	Fire Alarm Annuciator	TYP	Typical
FLA	Full Load Amperes	UG	Underground
FMC	Flexible Metal Conduit	UL	Underwriters Labratory
GF	Gas Furnace	UNO	Unless Noted Otherwise
GFCI	Ground Fault Current Interrupter	V	Volt
GND	Ground	VA	Volt-Amperes
GWH	Gas Water Heater	W	Watt or Wire
HOA	Hand-Off-Automatic Switch	WP	Weather Proof
HVAC	Heating, Ventilation, Air Conditioning	XFMR	Transformer

EXAMPLES:



NOTE: ALL ITEMS MAY NOT BE USED.

DWELLING UNIT LIGHT FIXTURES LUMINAIRE SCHEDULE

CALLOUT	DESCRIPTION	MODEL 1	INPUT VA
F1	52" CEILING FAN W/ LED LIGHT	HUNTER 50380	18
F2	36" CEILING FAN W/ LED LIGHT	HUNTER 59303	18
SM2	4" ROUND SURFACE MOUNT LED DOWNLIGHT	HALO SMD4S-6-930-WH	9.7
SM3	6" ROUND SURFACE MOUNT LED DOWNLIGHT	HALO SMD6R-12-930-WH	15.3
SM10	14" LED FLUSH MOUNT	EFFICIENT LIGHTING EL-835-25LED-277V-BN	25
UC9	9" UNDER CABINET LIGHT	HALO HU11-09-D9-S-P	4.5
V1	VANITY LIGHT	EFFICIENT LIGHTING EL228L-25LEDAC-BN	25

GENERAL NOTES-SINGLE LINE DIAGRAM

A. ALL BREAKERS SHALL BE RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT AT THEIR LOCATION. WHERE SERIES- RATED COMBINATIONS ARE USED IN ACCORDANCE WITH NEC 240.86 (B) AND (C) THE CONTRACTOR AND/OR HIS EQUIPMENT SUPPLIER MUST PROVIDE APPROPRIATE DOCUMENTATION AND LABELING.

B. WHERE BREAKERS WITH ADJUSTABLE SETTINGS ARE FURNISHED TO THE PROJECT, THE MANUFACTURER'S REP SHALL IDENTIFY AND PROVIDE THE APPROPRIATE SETTINGS TO THE ELECTRICAL CONTRACTOR FOR HIS USE IN INSTALLATION.

C. PANEL SCHEDULES INDICATE BREAKER SIZE ONLY. PROVIDE AFCI/GFCI PROTECTION AS REQUIRED BY NEC. COORDINATE FINAL BREAKER SIZES/TYPES FOR ITEMS FURNISHED BY OTHERS WITH SHOP DRAWINGS OR PRODUCT INFORMATION FOR ACTUAL EQUIPMENT BEING CONNECTED

D. ELECTRICAL CONTRACTOR SHALL NOT ORDER OR PURCHASE ANY MATERIALS OR EQUIPMENT UNTIL PERMIT DRAWINGS HAVE BEEN APPROVED BY AHJ.

E. PROVIDE SELECTIVE COORDINATION FOR EMERGENCY SYSTEM OVERCURRENT PROTECTION DEVICES IN ACCORDANCE WITH NEC 700.27.

F. PROVIDE GROUND-FAULT PROTECTION FOR EQUIPMENT IN ACCORDANCE WITH NEC 240.13 AND NEC 230.95.

G. OVERCURRENT PROTECTION DEVICES SUPPLYING TRANSFORMERS WHICH ARE NOT LOCATED WITHIN SIGHT OF THEIR OVERCURRENT PROTECTION SHALL BE LOCKABLE AND THE TRANSFORMER SHALL BE FIELD MARKED WITH THE LOCATION OF THE OVERCURRENT PROTECTION DEVICE.

H. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.

FEEDER SCHEDULE

ID	CONDUIT AND FEEDER
1	1-1/2"C,3#1/0 CU,#1/0 CU N,#6 CU G
2	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
3	2"C,3#3/0 AL,#3/0 AL N,#4 AL G
4	2"C,3#3/0 CU,#2 CU G
5	1-1/2"C,3#3/0 CU
6	2-1/2"C,3#250kcmil AL,#250kcmil AL N,#4 AL G
7	2"C,3#3/0 CU,#3/0 CU N
8	2-1/2"C,3#300kcmil AL,#300kcmil AL N,#2 AL G
9	(2)3"C,3#500kcmil AL,#500kcmil AL N,#2/0 AL G
10	(2)3"C,3#500kcmil AL,#500kcmil AL N
11	(4)3"C,3#350kcmil AL,#350kcmil AL N,#4/0 AL G
12	(4)2-1/2"C,3#350kcmil AL,#350kcmil AL N
13	(6)3-1/2"C,3#600kcmil AL,#600kcmil AL N,#400kcmil AL G
14	(6)3-1/2"C,3#600kcmil AL,#600kcmil AL N

SIZING METHOD: COMPACT AL 75°C 100A AND ABOVE, CU 75°C BELOW 100A

SINGLE LINE DIAGRAM (SERVICE #2 & #3)

PARAMOUNT WORKS

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H1

ROOM
MOUNTING SURFACE
FED FROM SDH
NOTE 2 SECTION

VOLTS 208Y/120V 3P 4W
BUS AMPS 600
NEUTRAL 100%

AIC T.B.D.
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/3	2.49	JOCKEY PUMP	a	2	90/3	23.3	DBP1
3	|			b	4	|		
5	|			c	6	|		
7	20/2	3	CH-1	a	8	20/2	3	WH-1
9	|			b	10	|		
11	20/2	3	WH-1	c	12	20/2	3	WH-1
13	|			a	14	|		
15	20/2	3	WH-1	b	16	45/2	9.01	AHU-7
17	|			c	18	|		
19	20/2	3	WH-1	a	20	20/2	3	WH-1
21	|			b	22	|		
23	20/1	1.62	RECEPTACLE	c	24	45/2	9.01	AHU-6
25	15/1	0.192	S-1	a	26	|		
27	20/1	1.08	RECEPTACLE	b	28	20/2	3	WH-1
29	20/1	0.25	ERRC	c	30	|		
31	20/1	0.174	LIGHTING	a	32	20/1	0.18	RECEPTACLE
33	20/1	1.03	E-4, LIGHTING	b	34	20/1	0.18	RECEPTACLE
35	20/1	0.4	HOTBOX	c	36	20/1	0.18	RECEPTACLE
37	20/1	0.18	120V CIRCUIT	a	38	20/1	0.9	RECEPTACLE
39	20/1	0.855	E-2, LIGHTING, TRASH CHUTE	b	40	20/1	0.36	RECEPTACLE
41	20/1	1.49	LIGHTING, LIGHTING TIMECLOCK	c	42	20/1	0.54	RECEPTACLE
43	20/1	0.5	BATTERY CHARGER	a	44	20/1	0	SPACE
45	20/1	0.25	BLOCK HEATER	b	46	20/1	0	SPACE
47	20/1	0	SPACE	c	48	20/1	0	SPACE
49	20/1	0	SPACE	a	50	20/1	0	SPACE
51	20/1	0	SPACE	b	52	20/1	0	SPACE
53	20/1	0	SPACE	c	54	20/1	0	SPACE
55	20/1	0	SPACE	a	56	20/1	0	SPACE
57	20/1	0	SPACE	b	58	20/1	0	SPACE
59	20/1	0	SPACE	c	60	20/1	0	SPACE
61	20/1	0	SPACE	a	62	20/1	0	SPACE
63	20/1	0	SPACE	b	64	20/1	0	SPACE
65	20/1	0	SPACE	c	66	20/1	0	SPACE
67	20/1	0	SPACE	a	68	20/1	0	SPACE
69	20/1	0	SPACE	b	70	20/1	0	SPACE
71	20/1	0	SPACE	c	72	20/1	0	SPACE
73	20/1	0	SPACE	a	74	20/1	0	SPACE
75	20/1	0	SPACE	b	76	20/1	0	SPACE
77	20/1	0	SPACE	c	78	20/1	0	SPACE
79	20/1	0	SPACE	a	80	150/3	24.7	TRANSFER SWITCH ATS
81	20/1	0	SPACE	b	82	|		
83	20/1	0	SPACE	c	84	|		
85	225/3	33.2	PANEL H3	a	86	-/3	0	EXTENSION OF 85,87,89
87	|			b	88	|		
89	|			c	90	|		
91	200/3	49.6	PANEL H6	a	92	-/3	0	EXTENSION OF 91,93,95
93	|			b	94	|		
95	|			c	96	|		

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	6.62	8.28	(125%)	RECEPTACLES	13.5	11.8	(50%>10)
LARGEST MOTOR	22.4	5.61	(25%)	NONCONTINUOUS	1.18	1.18	(100%)
MOTORS	50.3	50.3	(100%)	HEATING	114	114	(100%)
				COOLING	18	0	(0%)
				TOTAL LOAD		191	
				BALANCED 3-PHASE LOAD		531 A	
				PHASE A		108%	
				PHASE B		94%	
				PHASE C		97.9%	

H3

ROOM
MOUNTING SURFACE
FED FROM H1
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 225
NEUTRAL 100%

AIC T.B.D.
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/2	3	WH-1	a	2	40/2	8.17	AHU-5
3	|			b	4	|		
5	20/2	3	WH-1	c	6	40/2	8.17	AHU-5
7	|			a	8	|		
9	20/2	3	WH-1	b	10	20/2	3	WH-1
11	|			c	12	|		
13	20/1	1.8	RECEPTACLE	a	14	20/1	1.44	RECEPTACLE
15	20/1	0.154	LIGHTING	b	16	20/1	0	SPACE
17	20/1	1.03	E-4, LIGHTING	c	18	20/1	0	SPACE
19	20/1	0.42	LIGHTING	a	20	20/1	0	SPACE
21	20/1	0	SPACE	b	22	20/1	0	SPACE
23	20/1	0	SPACE	c	24	20/1	0	SPACE
25	20/1	0	SPACE	a	26	20/1	0	SPACE
27	20/1	0	SPACE	b	28	20/1	0	SPACE
29	20/1	0	SPACE	c	30	20/1	0	SPACE
31	20/1	0	SPACE	a	32	20/1	0	SPACE
33	20/1	0	SPACE	b	34	20/1	0	SPACE
35	20/1	0	SPACE	c	36	20/1	0	SPACE
37	20/1	0	SPACE	a	38	20/1	0	SPACE
39	20/1	0	SPACE	b	40	20/1	0	SPACE
41	20/1	0	SPACE	c	42	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	1.23	1.54	(125%)	LARGEST MOTOR	22.4	5.61	(25%)
				MOTORS	22.4	22.4	(100%)
				RECEPTACLES	1.06	1.06	(50%>10)
				TOTAL LOAD		30.7	
				BALANCED 3-PHASE LOAD		85.1 A	
				PHASE A		99.6%	
				PHASE B		107%	
				PHASE C		92.9%	

H6

ROOM
MOUNTING SURFACE
FED FROM H1
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 200
NEUTRAL 100%

AIC T.B.D.
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/2	2.79	HP-CORR-3	a	2	20/2	2.79	HP-CORR-5
3	|			b	4	|		
5	20/2	2.79	HP-CORR-4	c	6	25/2	3.02	HP-CORR-1
7	|			a	8	|		
9	30/2	3.79	HP-CORR/FIT	b	10	20/2	3	WH-1
11	|			c	12	|		
13	40/2	8.17	AHU-5	a	14	20/2	2.79	HP-CORR-6
15	|			b	16	|		
17	20/2	3	WH-1	c	18	40/2	8.17	AHU-5
19	|			a	20	|		
21	20/1	1.44	RECEPTACLE	b	22	20/2	3	WH-1
23	20/1	1.08	RECEPTACLE	c	24	|		
25	20/1	0.6	RADON	a	26	20/1	1.62	RECEPTACLE
27	20/1	0.154	LIGHTING	b	28	20/1	0	SPACE
29	20/1	0.723	E-4, LIGHTING	c	30	20/1	0	SPACE
31	20/1	0.723	E-4, LIGHTING	a	32	20/1	0	SPACE
33	20/1	0	SPACE	b	34	20/1	0	SPACE
35	20/1	0	SPACE	c	36	20/1	0	SPACE
37	20/1	0	SPACE	a	38	20/1	0	SPACE
39	20/1	0	SPACE	b	40	20/1	0	SPACE
41	20/1	0	SPACE	c	42	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	1.2	1.5	(125%)	MOTORS	1	1	(100%)
LARGEST MOTOR	3.79	0.946	(25%)	RECEPTACLES	4.14	4.14	(50%>10)
				HEATING	43.3	43.3	(100%)
				COOLING	18	0	(0%)
				TOTAL LOAD		50.9	
				BALANCED 3-PHASE LOAD		141 A	
				PHASE A		118%	
				PHASE B		89.5%	
				PHASE C		92.1%	

E

ROOM
MOUNTING SURFACE
FED FROM ATS
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 150
NEUTRAL 100%

AIC T.B.D.
MAIN BKR 150
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	150/3	22.4	ELEVATOR MOTOR	a	2	20/1	0	SPACE
3	|			b	4	20/1	0	SPACE
5	|			c	6	20/1	0	SPACE
7	20/1	0.696	ESP1	a	8	20/1	0	SPACE
9	20/1	1.2	CAB LTS/CONTROLS	b	10	20/1	0	SPACE
11	20/1	0.18	RECEPTACLE	c	12	20/1	0	SPACE
13	20/1	0.034	LIGHTING	a	14	20/1	0	SPACE
15	20/1	0.18	RECEPTACLE	b	16	20/1	0	SPACE
17	20/1	0	SPACE	c	18	20/1	0	SPACE
19	20/1	0	SPACE	a	20	20/1	0	SPACE
21	20/1	0	SPACE	b	22	20/1	0	SPACE
23	20/1	0	SPACE	c	24	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	1.23	1.54	(125%)	LARGEST MOTOR	22.4	5.61	(25%)
				MOTORS	22.4	22.4	(100%)
				RECEPTACLES	1.06	1.06	(50%>10)
				TOTAL LOAD		30.7	
				BALANCED 3-PHASE LOAD		85.1 A	
				PHASE A		99.6%	
				PHASE B		107%	
				PHASE C		92.9%	

A

ROOM
MOUNTING FLUSH
FED FROM SDA
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 600
NEUTRAL 100%

AIC T.B.D.
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	40/2	5	UH-1	a	2	40/2	5	UH-1
3	|			b	4	|		
5	40/2	5	UH-1	c	6	40/2	5	UH-1
7	|			a	8	|		
9	20/1	0.72	RECEPTACLE	b	10	20/1	0.36	RECEPTACLE
11	20/1	0.068	LIGHTING	c	12	20/1	1.2	SIGNAGE
13	20/1	0	SPACE	a	14	20/1	1.2	SIGNAGE
15	20/1	0	SPACE	b	16	20/1	0	SPACE
17	20/1	0	SPACE	c	18	20/1	0	SPACE
19	20/1	0	SPACE	a	20	20/1	0	SPACE
21	20/1	0	SPACE	b	22	20/1	0	SPACE
23	20/1	0	SPACE	c	24	20/1	0	SPACE
25	20/1	0	SPACE	a	26	20/1	0	SPACE
27	20/1	0	SPACE	b	28	20/1	0	SPACE
29	20/1	0	SPACE	c	30	20/1	0	SPACE
31	20/1	0	SPACE	a	32	20/1	0	SPACE
33	20/1	0	SPACE	b	34	20/1	0	SPACE
35	20/1	0	SPACE	c	36	20/1	0	SPACE
37	20/1	0	SPACE	a	38	20/1	0	SPACE
39	20/1	0	SPACE	b	40	20/1	0	SPACE
41	20/1	0	SPACE	c	42	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	2.47	3.08	(125%)	RECEPTACLES	1.08	1.08	(50%>10)
				HEATING	20	20	(100%)
				TOTAL LOAD		24.2	
				BALANCED 3-PHASE LOAD		67.1 A	
				PHASE A		135%	
				PHASE B		81.3%	
				PHASE C		83.4%	

PARAMOUNT WORKS
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Drawing Title
ELECTRICAL DETAILS

Document No.
E402

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MC3

ROOM
MOUNTING **FLUSH**
FED FROM **SD-1**
NOTE

VOLTS **208Y/120V 3P 4W**
BUS AMPS **2000**
NEUTRAL **100%**

AIC **T.B.D.**
MAIN BKR **MLO**
LUGS **FEEDTHRU**

CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C	FEEDER RACEWAY AND CONDUCTORS
1	150/2	PANEL 201	22.5	20.4		1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
2	150/2	PANEL 202		21.3	21.4	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
3	150/2	PANEL 203	20.7		18.7	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
4	150/2	PANEL 204	19.5	18.4		1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
5	150/2	PANEL 205		19.5	18.4	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
6	150/2	PANEL 301	21.6		21	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
7	150/2	PANEL 302	21.3	21.4		1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
8	150/2	PANEL 303		19.8	19.4	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
9	150/2	PANEL 304	19		18.9	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
10	150/2	PANEL 305	21	18.5		1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
11	150/2	PANEL 306		18.9	19	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
12	150/2	PANEL 307	19.4		19.8	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
13	150/2	PANEL 308	18.9	19		1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
14	150/2	PANEL 309		19.8	19.4	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
15	150/2	PANEL 310	19.4		19.8	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
16	150/2	PANEL 311	18.9	19		1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
17	150/2	PANEL 312		19.8	19.4	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
18	150/2	PANEL 313	19		18.9	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
19	150/2	PANEL 314	20.7	20.9		1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
20	150/2	PANEL 315		21.4	21.4	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
21	150/2	PANEL 401	21.6		21	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
22	150/2	PANEL 402	21.3	21.4		1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
23	150/2	PANEL 403		19.8	19.4	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
24	150/2	PANEL 404	19		18.9	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
25	150/2	PANEL 405	21	18.5		1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
26	150/2	PANEL 406		18.9	19	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
27	150/2	PANEL 407	19.4		19.8	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
28	150/2	PANEL 408	18.9	19		1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
29	150/2	PANEL 409		19.8	19.4	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
30	150/2	PANEL 410	19.4		19.8	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
31	150/2	PANEL 411	18.9	19		1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
32	150/2	PANEL 412		19.8	19.4	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
33	150/2	PANEL 413	19		18.9	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
34	150/2	PANEL 414	20.7	20.9		1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
35	150/2	PANEL 415		21.4	21.4	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
		LUG LOAD: METER CENTER MC5	394	396	399	
		TOTAL CONNECTED KVA BY PHASE	855	872	851	

OPTIONAL MULTIFAMILY DWELLING CALCULATION (NEC 220.84)

	KVA			KVA
LIGHTING AND RECEPTACLES	145	48,249 SF (3 VA/SF)	CONNECTED LOAD	2,520
SMALL-APPLIANCE	195		DWELLING UNITS	65
LAUNDRY	97.5		DEMAND FACTOR	(23%)
APPLIANCES	845		CALCULATED LOAD	580
ELECTRIC COOKING	663		BALANCED 3-PHASE LOAD	1,610 A
HEATING	576	(100%)		
COOLING	295	(0%)		

MC5

ROOM
MOUNTING **FLUSH**
FED FROM **MC3**
NOTE

VOLTS **208Y/120V 3P 4W**
BUS AMPS **2000**
NEUTRAL **100%**

AIC **T.B.D.**
MAIN BKR **MLO**
LUGS **FEEDTHRU**

CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C	FEEDER RACEWAY AND CONDUCTORS
1	150/2	PANEL 501	21	21.6		1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
2	150/2	PANEL 502		21.3	21.4	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
3	150/2	PANEL 503	19.4		19.8	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
4	150/2	PANEL 504	18.9	19		1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
5	150/2	PANEL 505		19.8	19.4	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
6	150/2	PANEL 506	19		18.9	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
7	150/2	PANEL 507	19.8	19.4		1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
8	150/2	PANEL 508		18.9	19	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
9	150/2	PANEL 509	19.4		19.8	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
10	150/2	PANEL 510	19.8	19.4		1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
11	150/2	PANEL 511		18.9	19	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
12	150/2	PANEL 512	19.4		19.8	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
13	150/2	PANEL 513	18.9	19		1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
14	150/2	PANEL 514		20.7	20.9	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
15	150/2	PANEL 515	21.4		21.4	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
16	150/2	PANEL 601	21	21.6		1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
17	150/2	PANEL 602		21.3	21.4	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
18	150/2	PANEL 603	19.4		19.8	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
19	150/2	PANEL 604	18.9	19		1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
20	150/2	PANEL 605		19.8	19.4	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
21	150/2	PANEL 606	19		18.9	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
22	150/2	PANEL 607	19.8	19.4		1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
23	150/2	PANEL 608		18.9	19	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
24	150/2	PANEL 609	19.4		19.8	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
25	150/2	PANEL 610	19.8	19.4		1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
26	150/2	PANEL 611		18.9	19	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
27	150/2	PANEL 612	19.4		19.8	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
28	150/2	PANEL 613	18.9	19		1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
29	150/2	PANEL 614		20.7	20.9	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
30	150/2	PANEL 615	21.4		21.4	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
		TOTAL CONNECTED KVA BY PHASE	394	396	399	

OPTIONAL MULTIFAMILY DWELLING CALCULATION (NEC 220.84)

	KVA			KVA
LIGHTING AND RECEPTACLES	66.4	22,147 SF (3 VA/SF)	CONNECTED LOAD	1,160
SMALL-APPLIANCE	90		DWELLING UNITS	30
LAUNDRY	45		DEMAND FACTOR	(33%)
APPLIANCES	390		CALCULATED LOAD	383
ELECTRIC COOKING	306		BALANCED 3-PHASE LOAD	1,060 A
HEATING	263	(100%)		
COOLING	124	(0%)		

PARAMOUNT WORKS
NWC KEMPER LANE & E. McMILLAN ST
2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

No.	Issuances / Revisions / Submissions	Date
	PRICING/PERMIT ISSUANCE	02.23.2024

PR-10535

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Newport, KY 41071 (859) 261-0585
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Drawing Title
ELECTRICAL DETAILS

Document No.
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TYPE 1

ROOM
MOUNTING FLUSH
FED FROM
NOTE

VOLTS 208/120V 2P 3W
BUS AMPS 150
NEUTRAL 100%

AIC T.B.D.
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	30/2	5.2	AHU-1	a	2	50/2	10.2	RANGE
3	|			b	4	|		
5	15/2	3.12	HP-1	a	6	20/1	1.5	SMALL APPLIANCE
7	|			b	8	20/1	1.5	SMALL APPLIANCE
9	30/2	5	DRYER	a	10	20/1	1.2	DISHWASHER
11	|			b	12	20/1	1.8	MICROWAVE
13	30/2	4.5	EDWH	a	14	20/1	0.5	FRIG.
15	|			b	16	20/1	1.5	LAUNDRY
17	15/1	1.68	EF1, LIGHTING, RECEPTACLE	a	18	20/1	0	SPACE
19	20/1	0.18	BATH	b	20	20/1	0	SPACE
21	20/1	0	SPACE	a	22	20/1	0	SPACE
23	20/1	0	SPACE	b	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)

	CONN KVA			CONN KVA	CALC KVA	
LIGHTING AND RECEPTACLES	1.61	538 SF (3 VA/SF)	GENERAL LOAD			
SMALL-APPLIANCE	3		UP TO 10 KVA	10	10	(100%)
LAUNDRY	1.5		OVER 10 KVA	19.3	7.73	(40%)
APPLIANCES	13		MAX HEATING OR COOLING		6.5	(220.82(C)(3))
ELECTRIC COOKING	10.2		TOTAL LOAD		24.2	
TOTAL GENERAL LOAD	29.3		BALANCED LOAD		116 A	
			PHASE A		99.8%	
			PHASE B		100%	

TYPE 2

ROOM
MOUNTING FLUSH
FED FROM
NOTE

VOLTS 208/120V 2P 3W
BUS AMPS 150
NEUTRAL 100%

AIC T.B.D.
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	15/2	5.2	AHU-1	a	2	50/2	10.2	RANGE
3	|			b	4	|		
5	15/2	3.12	HP-1	a	6	20/1	1.5	SMALL APPLIANCE
7	|			b	8	20/1	1.5	SMALL APPLIANCE
9	30/2	5	DRYER	a	10	20/1	1.2	DISHWASHER
11	|			b	12	20/1	1.8	MICROWAVE
13	30/2	4.5	EDWH	a	14	20/1	0.5	FRIG.
15	|			b	16	20/1	1.5	LAUNDRY
17	15/1	1.68	EF1, LIGHTING, RECEPTACLE	a	18	20/1	0	SPACE
19	20/1	0.18	BATH	b	20	20/1	0	SPACE
21	20/1	0	SPACE	a	22	20/1	0	SPACE
23	20/1	0	SPACE	b	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)

	CONN KVA			CONN KVA	CALC KVA	
LIGHTING AND RECEPTACLES	1.6	533 SF (3 VA/SF)	GENERAL LOAD			
SMALL-APPLIANCE	3		UP TO 10 KVA	10	10	(100%)
LAUNDRY	1.5		OVER 10 KVA	19.3	7.72	(40%)
APPLIANCES	13		MAX HEATING OR COOLING		3.12	(220.82(C)(1))
ELECTRIC COOKING	10.2		TOTAL LOAD		20.8	
TOTAL GENERAL LOAD	29.3		BALANCED LOAD		100 A	
			PHASE A		99.8%	
			PHASE B		100%	

TYPE 3

ROOM
MOUNTING FLUSH
FED FROM
NOTE

VOLTS 208/120V 2P 3W
BUS AMPS 150
NEUTRAL 100%

AIC T.B.D.
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	30/2	5.2	AHU-1	a	2	50/2	10.2	RANGE
3	|			b	4	|		
5	15/2	3.12	HP-1	a	6	20/1	1.5	SMALL APPLIANCE
7	|			b	8	20/1	1.5	SMALL APPLIANCE
9	30/2	4.5	EDWH	a	10	20/1	1.2	DISHWASHER
11	|			b	12	20/1	1.8	MICROWAVE
13	30/2	5	DRYER	a	14	20/1	0.5	FRIG.
15	|			b	16	20/1	1.5	LAUNDRY
17	15/1	1.24	EF1, LIGHTING, RECEPTACLE	a	18	20/1	0	SPACE
19	15/1	0.423	LIGHTING, RECEPTACLE	b	20	20/1	0	SPACE
21	15/1	1.32	LIGHTING, RECEPTACLE	a	22	20/1	0	SPACE
23	20/1	0.18	BATH	b	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)

	CONN KVA			CONN KVA	CALC KVA	
LIGHTING AND RECEPTACLES	2.21	735 SF (3 VA/SF)	GENERAL LOAD			
SMALL-APPLIANCE	3		UP TO 10 KVA	10	10	(100%)
LAUNDRY	1.5		OVER 10 KVA	19.9	7.96	(40%)
APPLIANCES	13		MAX HEATING OR COOLING		6.5	(220.82(C)(3))
ELECTRIC COOKING	10.2		TOTAL LOAD		24.5	
TOTAL GENERAL LOAD	29.9		BALANCED LOAD		118 A	
			PHASE A		101%	
			PHASE B		99.2%	

TYPE 4

ROOM
MOUNTING FLUSH
FED FROM
NOTE

VOLTS 208/120V 2P 3W
BUS AMPS 150
NEUTRAL 100%

AIC T.B.D.
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	30/2	5.2	AHU-1	a	2	50/2	10.2	RANGE
3	|			b	4	|		
5	15/2	3.12	HP-1	a	6	20/1	1.5	SMALL APPLIANCE
7	|			b	8	20/1	1.5	SMALL APPLIANCE
9	30/2	4.5	EDWH	a	10	20/1	0.5	FRIG.
11	|			b	12	20/1	1.2	DISHWASHER
13	30/2	5	DRYER	a	14	20/1	1.8	MICROWAVE
15	|			b	16	20/1	0.1	HOOD
17	15/1	1.25	EF1, LIGHTING, RECEPTACLE	a	18	20/1	1.5	LAUNDRY
19	15/1	1.49	LIGHTING, RECEPTACLE	b	20	20/1	0	SPACE
21	15/1	0.423	LIGHTING, RECEPTACLE	a	22	20/1	0	SPACE
23	20/1	0.18	BATH	b	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)

	CONN KVA			CONN KVA	CALC KVA	
LIGHTING AND RECEPTACLES	2.17	722 SF (3 VA/SF)	GENERAL LOAD			
SMALL-APPLIANCE	3		UP TO 10 KVA	10	10	(100%)
LAUNDRY	1.5		OVER 10 KVA	20	7.99	(40%)
APPLIANCES	13.1		MAX HEATING OR COOLING		6.5	(220.82(C)(3))
ELECTRIC COOKING	10.2		TOTAL LOAD		24.5	
TOTAL GENERAL LOAD	30		BALANCED LOAD		118 A	
			PHASE A		105%	
			PHASE B		94.6%	

PARAMOUNT WORKS
NWC KEMPER LANE & E. McMILLAN ST
2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

No.	Issuances / Revisions / Submissions	Date
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PR-10535

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ELECTRICAL DETAILS

Document No.
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PLOTTED: Thursday, February 22, 2024 3:28:04 PM

TYPE 5

ROOM
MOUNTING FLUSH
FED FROM
NOTE

VOLTS 208/120V 2P 3W
BUS AMPS 150
NEUTRAL 100%

AIC T.B.D.
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	50/2	7.26	AHU-2	a	2	50/2	10.2	RANGE
3	|			b	4	|		
5	25/2	3.33	HP-2	a	6	20/1	1.5	SMALL APPLIANCE
7	|			b	8	20/1	1.5	SMALL APPLIANCE
9	30/2	5	DRYER	a	10	20/1	1.2	DISHWASHER
11	|			b	12	20/1	1.8	MICROWAVE
13	30/2	4.5	EDWH	a	14	20/1	0.5	FRIG.
15	|			b	16	20/1	1.5	LAUNDRY
17	15/1	1.07	EF1, LIGHTING, RECEPTACLE	a	18	20/1	0	SPACE
19	15/1	1.06	EF1, LIGHTING, RECEPTACLE	b	20	20/1	0	SPACE
21	15/1	1.94	LIGHTING, RECEPTACLE	a	22	20/1	0	SPACE
23	20/1	0.36	BATH	b	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)

	CONN KVA			CONN KVA	CALC KVA	
LIGHTING AND RECEPTACLES	2.96	985 SF (3 VA/SF)	GENERAL LOAD			
SMALL-APPLIANCE	3		UP TO 10 KVA	10	10	(100%)
LAUNDRY	1.5		OVER 10 KVA	20.7	8.26	(40%)
APPLIANCES	13		MAX HEATING OR COOLING		8.05	(220.82(C)(3))
ELECTRIC COOKING	10.2					
TOTAL GENERAL LOAD	30.7		TOTAL LOAD		26.3	
			BALANCED LOAD		126 A	
			PHASE A		100%	
			PHASE B		100%	

TYPE 6

ROOM
MOUNTING FLUSH
FED FROM
NOTE

VOLTS 208/120V 2P 3W
BUS AMPS 150
NEUTRAL 100%

AIC T.B.D.
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	50/2	7.26	AHU-2	a	2	50/2	10.2	RANGE
3	|			b	4	|		
5	25/2	3.33	HP-2	a	6	20/1	1.5	SMALL APPLIANCE
7	|			b	8	20/1	1.5	SMALL APPLIANCE
9	30/2	5	DRYER	a	10	20/1	1.2	DISHWASHER
11	|			b	12	20/1	1.8	MICROWAVE
13	30/2	4.5	EDWH	a	14	20/1	0.5	FRIG.
15	|			b	16	20/1	1.5	LAUNDRY
17	15/1	1.06	EF1, LIGHTING, RECEPTACLE	a	18	20/1	0	SPACE
19	15/1	0.822	LIGHTING, RECEPTACLE	b	20	20/1	0	SPACE
21	15/1	1.29	LIGHTING, RECEPTACLE	a	22	20/1	0	SPACE
23	20/1	0.18	BATH	b	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)

	CONN KVA			CONN KVA	CALC KVA	
LIGHTING AND RECEPTACLES	2.5	834 SF (3 VA/SF)	GENERAL LOAD			
SMALL-APPLIANCE	3		UP TO 10 KVA	10	10	(100%)
LAUNDRY	1.5		OVER 10 KVA	20.2	8.08	(40%)
APPLIANCES	13		MAX HEATING OR COOLING		8.05	(220.82(C)(3))
ELECTRIC COOKING	10.2					
TOTAL GENERAL LOAD	30.2		TOTAL LOAD		26.1	
			BALANCED LOAD		126 A	
			PHASE A		99.5%	
			PHASE B		101%	

TYPE 7

ROOM
MOUNTING FLUSH
FED FROM
NOTE

VOLTS 208/120V 2P 3W
BUS AMPS 150
NEUTRAL 100%

AIC T.B.D.
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	50/2	7.26	AHU-2	a	2	50/2	10.2	RANGE
3	|			b	4	|		
5	25/2	3.33	HP-2	a	6	20/1	1.5	SMALL APPLIANCE
7	|			b	8	20/1	1.5	SMALL APPLIANCE
9	30/2	5	DRYER	a	10	20/1	1.2	DISHWASHER
11	|			b	12	20/1	1.8	MICROWAVE
13	30/2	4.5	EDWH	a	14	20/1	0.5	FRIG.
15	|			b	16	20/1	1.5	LAUNDRY
17	15/1	1.07	EF1, LIGHTING, RECEPTACLE	a	18	20/1	0	SPACE
19	15/1	1.25	EF1, LIGHTING, RECEPTACLE	b	20	20/1	0	SPACE
21	15/1	1.58	LIGHTING, RECEPTACLE	a	22	20/1	0	SPACE
23	20/1	0.36	BATH	b	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)

	CONN KVA			CONN KVA	CALC KVA	
LIGHTING AND RECEPTACLES	3.38	1,125 SF (3 VA/SF)	GENERAL LOAD			
SMALL-APPLIANCE	3		UP TO 10 KVA	10	10	(100%)
LAUNDRY	1.5		OVER 10 KVA	21.1	8.43	(40%)
APPLIANCES	13		MAX HEATING OR COOLING		10.6	(220.82(C)(1))
ELECTRIC COOKING	10.2					
TOTAL GENERAL LOAD	31.1		TOTAL LOAD		29	
			BALANCED LOAD		140 A	
			PHASE A		98.9%	
			PHASE B		101%	

TYPE 8

ROOM
MOUNTING FLUSH
FED FROM
NOTE

VOLTS 208/120V 2P 3W
BUS AMPS 150
NEUTRAL 100%

AIC T.B.D.
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	50/2	7.26	AHU-2	a	2	50/2	10.2	RANGE
3	|			b	4	|		
5	25/2	3.33	HP-2	a	6	20/1	1.5	SMALL APPLIANCE
7	|			b	8	20/1	1.5	SMALL APPLIANCE
9	30/2	5	DRYER	a	10	20/1	1.2	DISHWASHER
11	|			b	12	20/1	1.8	MICROWAVE
13	30/2	4.5	EDWH	a	14	20/1	0.5	FRIG.
15	|			b	16	20/1	1.5	LAUNDRY
17	15/1	1.06	EF1, LIGHTING, RECEPTACLE	a	18	20/1	0	SPACE
19	15/1	1.11	LIGHTING, RECEPTACLE	b	20	20/1	0	SPACE
21	15/1	1.9	EF1, LIGHTING, RECEPTACLE	a	22	20/1	0	SPACE
23	20/1	0.36	BATH	b	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)

	CONN KVA			CONN KVA	CALC KVA	
LIGHTING AND RECEPTACLES	3.1	1,032 SF (3 VA/SF)	GENERAL LOAD			
SMALL-APPLIANCE	3		UP TO 10 KVA	10	10	(100%)
LAUNDRY	1.5		OVER 10 KVA	20.8	8.32	(40%)
APPLIANCES	13		MAX HEATING OR COOLING		10.6	(220.82(C)(1))
ELECTRIC COOKING	10.2					
TOTAL GENERAL LOAD	30.8		TOTAL LOAD		28.9	
			BALANCED LOAD		139 A	
			PHASE A		99.8%	
			PHASE B		100%	

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PR-10535

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TYPE 9

ROOM
MOUNTING FLUSH
FED FROM
NOTE

VOLTS 208/120V 2P 3W
BUS AMPS 150
NEUTRAL 100%

AIC T.B.D.
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	30/2	5.2	AHU-1	a	2	50/2	10.2	RANGE
3	|			b	4	|		
5	15/2	3.12	HP-1	a	6	20/1	1.5	SMALL APPLIANCE
7	|			b	8	20/1	1.5	SMALL APPLIANCE
9	30/2	5	DRYER	a	10	20/1	1.2	DISHWASHER
11	|			b	12	20/1	1.8	MICROWAVE
13	30/2	4.5	EDWH	a	14	20/1	0.5	FRIG.
15	|			b	16	20/1	1.5	LAUNDRY
17	15/1	1.29	LIGHTING, RECEPTACLE	a	18	20/1	0	SPACE
19	15/1	1.87	EF1, LIGHTING, RECEPTACLE	b	20	20/1	0	SPACE
21	20/1	0.18	BATH	a	22	20/1	0	SPACE
23	20/1	0	SPACE	b	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)

	CONN KVA			CONN KVA	CALC KVA	
LIGHTING AND RECEPTACLES	2.52	839 SF (3 VA/SF)	GENERAL LOAD			
SMALL-APPLIANCE	3		UP TO 10 KVA	10	10	(100%)
LAUNDRY	1.5		OVER 10 KVA	20.2	8.09	(40%)
APPLIANCES	13		MAX HEATING OR COOLING		8.32	(220.82(C)(1))
ELECTRIC COOKING	10.2					
TOTAL GENERAL LOAD	30.2		TOTAL LOAD		26.4	
			BALANCED LOAD		127 A	
			PHASE A		95.7%	
			PHASE B		104%	

TYPE 10

ROOM
MOUNTING FLUSH
FED FROM
NOTE

VOLTS 208/120V 2P 3W
BUS AMPS 150
NEUTRAL 100%

AIC T.B.D.
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	30/2	5.2	AHU-1	a	2	50/2	10.2	RANGE
3	|			b	4	|		
5	15/2	3.12	HP-1	a	6	20/1	1.5	SMALL APPLIANCE
7	|			b	8	20/1	1.5	SMALL APPLIANCE
9	30/2	5	DRYER	a	10	20/1	1.8	MICROWAVE
11	|			b	12	20/1	1.2	DISHWASHER
13	30/2	4.5	EDWH	a	14	20/1	0.5	FRIG.
15	|			b	16	20/1	1.5	LAUNDRY
17	15/1	1.68	EF1, LIGHTING, RECEPTACLE	a	18	20/1	0	SPACE
19	20/1	0.18	BATH	b	20	20/1	0	SPACE
21	20/1	0	SPACE	a	22	20/1	0	SPACE
23	20/1	0	SPACE	b	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)

	CONN KVA			CONN KVA	CALC KVA	
LIGHTING AND RECEPTACLES	1.58	526 SF (3 VA/SF)	GENERAL LOAD			
SMALL-APPLIANCE	3		UP TO 10 KVA	10	10	(100%)
LAUNDRY	1.5		OVER 10 KVA	19.3	7.71	(40%)
APPLIANCES	13		MAX HEATING OR COOLING		8.32	(220.82(C)(1))
ELECTRIC COOKING	10.2					
TOTAL GENERAL LOAD	29.3		TOTAL LOAD		26	
			BALANCED LOAD		125 A	
			PHASE A		102%	
			PHASE B		97.5%	

TYPE 11

ROOM
MOUNTING FLUSH
FED FROM
NOTE

VOLTS 208/120V 2P 3W
BUS AMPS 150
NEUTRAL 100%

AIC T.B.D.
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	50/2	7.26	AHU-2	a	2	50/2	10.2	RANGE
3	|			b	4	|		
5	25/2	3.33	HP-2	a	6	20/1	1.5	SMALL APPLIANCE
7	|			b	8	20/1	1.5	SMALL APPLIANCE
9	30/2	5	DRYER	a	10	20/1	1.2	DISHWASHER
11	|			b	12	20/1	1.8	MICROWAVE
13	30/2	4.5	EDWH	a	14	20/1	0.1	HOOD
15	|			b	16	20/1	0.5	FRIG.
17	15/1	1.06	EF1, LIGHTING, RECEPTACLE	a	18	20/1	1.5	LAUNDRY
19	15/1	1.06	EF1, LIGHTING, RECEPTACLE	b	20	20/1	0	SPACE
21	15/1	1.99	LIGHTING, RECEPTACLE	a	22	20/1	0	SPACE
23	20/1	0.36	BATH	b	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)

	CONN KVA			CONN KVA	CALC KVA	
LIGHTING AND RECEPTACLES	3.15	1,050 SF (3 VA/SF)	GENERAL LOAD			
SMALL-APPLIANCE	3		UP TO 10 KVA	10	10	(100%)
LAUNDRY	1.5		OVER 10 KVA	21	8.38	(40%)
APPLIANCES	13.1		MAX HEATING OR COOLING		10.6	(220.82(C)(1))
ELECTRIC COOKING	10.2					
TOTAL GENERAL LOAD	31		TOTAL LOAD		29	
			BALANCED LOAD		139 A	
			PHASE A		104%	
			PHASE B		95.7%	

TYPE 12

ROOM
MOUNTING FLUSH
FED FROM
NOTE

VOLTS 208/120V 2P 3W
BUS AMPS 150
NEUTRAL 100%

AIC T.B.D.
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	50/2	7.26	AHU-2	a	2	50/2	10.2	RANGE
3	|			b	4	|		
5	25/2	3.33	HP-2	a	6	20/1	1.5	SMALL APPLIANCE
7	|			b	8	20/1	1.5	SMALL APPLIANCE
9	30/2	5	DRYER	a	10	20/1	1.2	DISHWASHER
11	|			b	12	20/1	1.8	MICROWAVE
13	30/2	4.5	EDWH	a	14	20/1	0.5	FRIG.
15	|			b	16	20/1	1.5	LAUNDRY
17	15/1	1.06	EF1, LIGHTING, RECEPTACLE	a	18	20/1	0	SPACE
19	15/1	1.11	LIGHTING, RECEPTACLE	b	20	20/1	0	SPACE
21	15/1	1.9	EF1, LIGHTING, RECEPTACLE	a	22	20/1	0	SPACE
23	20/1	0.36	BATH	b	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)

	CONN KVA			CONN KVA	CALC KVA	
LIGHTING AND RECEPTACLES	3.11	1,035 SF (3 VA/SF)	GENERAL LOAD			
SMALL-APPLIANCE	3		UP TO 10 KVA	10	10	(100%)
LAUNDRY	1.5		OVER 10 KVA	20.8	8.32	(40%)
APPLIANCES	13		MAX HEATING OR COOLING		10.6	(220.82(C)(1))
ELECTRIC COOKING	10.2					
TOTAL GENERAL LOAD	30.8		TOTAL LOAD		28.9	
			BALANCED LOAD		139 A	
			PHASE A		99.8%	
			PHASE B		100%	

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ELECTRICAL SPECIFICATIONS

1. GENERAL DEMOLITION
   a. REFER TO ARCHITECTURAL DRAWINGS, GENERAL NOTES, INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS, BASE BUILDING SPECIFICATIONS AND DRAWINGS, SHOP DRAWING MANUALS AND AS-BUILT PLANS, EXCEPT AS NOTED HEREIN, WHICH APPLY IN ALL RESPECTS TO THIS SECTION. THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS PRIOR TO BIDDING THE WORK
2. USE OF DRAWINGS AND SPECIFICATIONS
   a. EBS DRAWINGS AND SPECIFICATIONS ARE INTENDED TO CONVEY DESIGN INTENT ONLY. ALL MEANS AND METHODS SEQUENCES, TECHNIQUES, AND PROCEDURES OF CONSTRUCTION AS WELL AS ANY ASSOCIATED SAFETY PRECAUTIONS AND PROGRAMS, AND ALL INCIDENTAL AND TEMPORARY DEVICES REQUIRED TO CONSTRUCT THE PROJECT, AND TO PROVIDE A COMPLETE AND FULLY OPERATIONAL ELECTRICAL SYSTEM ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
3. STANDARDS
   a. MATERIALS EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF NEC, ASTM, UL, ETL, NEMA, ANSI, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.
4. CODES
   a. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS/SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE ELECTRICAL CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST TO OWNER.
5. PERMITS AND FEES
   a. THE ELECTRICAL CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, FEES AND INSPECTIONS NECESSARY TO COMPLETE THE ELECTRICAL WORK.
6. WARRANTY
   a. THE ELECTRICAL CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE, AND WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE AND RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE MATERIALS AND WORKMANSHIP.
7. SITE EXAMINATION
   a. THE ELECTRICAL CONTRACTOR SHALL THOROUGHLY EXAMINE ALL AREAS OF WORK WHERE EQUIPMENT WILL BE INSTALLED AND SHALL REPORT ANY CONDITION THAT, IN HIS OPINION, PREVENTS THE PROPER INSTALLATION OF THE ELECTRICAL WORK PRIOR TO BID. HE SHALL ALSO EXAMINE THE DRAWINGS AND SPECIFICATIONS OF OTHER BRANCHES OF WORK MAKING REFERENCE TO THEM FOR DETAILS OF NEW OR EXISTING BUILDING CONDITIONS.
   b. ALL WORK SHALL BE DONE AT TIMES CONVENIENT TO THE OWNER AND ONLY DURING NORMAL WORKING HOURS, UNLESS SPECIFIED OTHERWISE.
   c. ELECTRICAL CONTRACTOR SHALL TAKE HIS OWN MEASUREMENTS AND BE RESPONSIBLE FOR THEM.
   d. ACCESS PANELS ARE NOT SHOWN ON DRAWINGS. DURING SITE EXAMINATION, CONTRACTOR SHALL IDENTIFY ALL AREAS WHERE ACCESS PANELS ARE REQUIRED, AND REPORT TO GENERAL CONTRACTOR. DESIGNATION OF WHO FURNISHES AND WHO INSTALLS ACCESS PANELS MUST BE COORDINATED WITH GENERAL CONTRACTOR PRIOR TO STARTING WORK.
8. CONTRACTOR COORDINATION
   a. COORDINATION DRAWINGS SHOWING SYSTEM AND COMPONENT INSTALLATION LAYOUT, ROUTING, DETAILS, ETC. SHALL BE PRODUCED BY THE ELECTRICAL CONTRACTOR AND UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER, OR APPROPRIATE PARTY AS APPLICABLE.
   b. ALL SYSTEMS INSTALLED BY EACH SUB-CONTRACTOR SHALL BE COORDINATED WITH ONE ANOTHER AND APPROVED BY GENERAL CONTRACTOR/CONSTRUCTION MANAGER, ETC, PRIOR TO INSTALLATION AND/OR FABRICATION. WHERE THE ELECTRICAL CONTRACTOR IS MAKING A CONNECTION TO EQUIPMENT/COMPONENTS THAT ARE FURNISHED BY OTHERS, ELECTRICAL CONTRACTOR TO VERIFY ALL CONNECTION REQUIREMENTS WITH ACTUAL EQUIPMENT BEING CONNECTED, INCLUDING BUT NOT LIMITED TO OCP SIZE, MEANS OF DISCONNECT, SPECIAL CONNECTION REQUIREMENTS, OR OTHER ITEMS INDICATED ON SHOP DRAWINGS, OR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND/OR INSTALLATION DIAGRAMS, AND FURNISH ALL LABOR AND MATERIALS REQUIRED FOR THE INSTALLATION AND OPERATION OF THE EQUIPMENT. NO ALLOWANCES WILL BE MADE FOR FAILURE TO COORDINATE, AFTER ELECTRICAL CONNECTIONS HAVE BEEN INSTALLED.
   c. IF QUESTIONS CONCERNING DESIGN INTENT ARISE DURING COORDINATION, EBS CAN ASSIST WHERE APPROPRIATE.
   d. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. DO NOT SCALE DISTANCES OFF THE ELECTRICAL DRAWINGS; USE ACTUAL BUILDING DIMENSIONS.
   e. COORDINATION DRAWINGS SHOWING SYSTEM AND COMPONENT INSTALLATION LAYOUT, ROUTING, DETAILS, ETC. SHALL BE PRODUCED BY THE ELECTRICAL CONTRACTOR AND UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER, OR APPROPRIATE PARTY AS APPLICABLE. ALL SYSTEMS INSTALLED BY EACH SUB-CONTRACTOR SHALL BE COORDINATED WITH ONE ANOTHER AND APPROVED BY GENERAL CONTRACTOR/CONSTRUCTION MANAGER, ETC. PRIOR TO INSTALLATION AND/OR FABRICATION. IF QUESTIONS CONCERNING DESIGN INTENT ARISE DURING COORDINATION, EBS CAN ASSIST WHERE APPROPRIATE.
9. UTILITY COORDINATION
   a. ELECTRICAL CONTRACTOR TO VERIFY INSTALLATION OF METERING AND UTILITY DEMARCATION EQUIPMENT WITH UTILITY PROVIDER PRIOR TO START OF WORK AND FURNISH AND INSTALL REQUIRED ITEMS PER UTILITY COMPANY'S INSTALLATION REQUIREMENTS AND/OR MANUALS.
10. SUBMITTALS
    a. PRODUCTS INSTALLED BY THE ELECTRICAL CONTRACTOR AND PROVIDED BY OTHERS MUST BE SUBMITTED FOR REVIEW PRIOR TO PURCHASING. PRODUCTS SHALL NOT BE SELECTED BASED ON PERMIT DRAWINGS WITHOUT EXPRESS PERMISSION - PRODUCTS SHALL BE SELECTED BASED ON CONSTRUCTION DRAWINGS.
11. RECORD DRAWINGS
    a. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING RECORD DRAWINGS WHERE REQUIRED. DRAWINGS SHALL BE PRODUCED IN AUTOCAD 2004 FORMAT OR LATER.
12. SHOP DRAWINGS
    a. SUBMIT TO THE ARCHITECT PDF FILE COPIES OF COMPLETE & CERTIFIED SHOP DRAWINGS, DESCRIPTIVE DATA, PERFORMANCE DATA & RATINGS, DIAGRAMS AND SPECIFICATIONS ON ALL SPECIFIED EQUIPMENT, INCLUDING ACCESSORIES, AND MATERIALS FOR REVIEW.
    b. THE MAKE, MODEL NUMBER, TYPE, FINISH & ACCESSORIES OF ALL EQUIPMENT AND MATERIALS SHALL BE REVIEWED & APPROVED BY THE ELECTRICAL CONTRACTOR & GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE ARCHITECT FOR THEIR REVIEW & APPROVAL.
    c. REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE ELECTRICAL CONTRACTOR/VENDOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS, SPECIFICATIONS & APPLICABLE CODES.
13. TESTING
    a. ALL ELECTRICAL SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. BALANCE ALL BRANCH CIRCUIT LOADS BETWEEN THE PHASES OF THE SYSTEM TO WITHIN 10% OF THE HIGHEST PHASE LOAD IN EACH PANELBOARD.
14. TEMPORARY POWER
    a. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRICAL WIRING FOR CONSTRUCTION. THE TEMPORARY SERVICE SHALL BE A MINIMUM OF 60 AMPS, SINGLE PHASE, THREE WIRE, 120/208 VOLTS FUSED AT MAIN DISCONNECT. ALL RECEPTACLES ON THIS TEMPORARY SERVICE SHALL BE PROTECTED BY A GFI BREAKER.
15. MECHANICAL EQUIPMENT
    a. ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE DONE BY THE ELECTRICAL CONTRACTOR.
16. DEMOLITION
    a. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DEENERGIZING CIRCUITS IN DEMOLITION AREAS TO INSURE A SAFE CONDITION. ELECTRICAL DEVICES AND ASSOCIATED WIRING LOCATED WITHIN THE DEMOLITION AREA THAT WILL NO LONGER BE USED SHALL BE REMOVED AND PROPERLY DISPOSED OF AT CONTRACTOR'S EXPENSE UNLESS OTHERWISE NOTED.
17. POWER OUTAGES
    a. THE ELECTRICAL CONTRACTOR SHALL SCHEDULE ALL ELECTRICAL SYSTEM(S) OUTAGES WITH THE GENERAL CONTRACTOR AND OWNER AT LEAST 24 HOURS IN ADVANCE. UNLESS APPROVED OTHERWISE ALL OUTAGES SHALL OCCUR BETWEEN 11:00PM AND 5:00AM.
18. GROUNDING AND BONDING
    a. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250.
    b. ANY GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.
19. MATERIALS
    a. PROVIDE ALL NEW MATERIAL AND EQUIPMENT UNLESS NOTED OTHERWISE. ALL EQUIPMENT SHALL BE UL APPROVED AND LABELED, OR OTHER APPROVED TESTING ORGANIZATION WHICH HAS ACCEPTANCE BY THE LOCAL JURISDICTION, FOR THE PURPOSE FOR WHICH THEY ARE USED, IN ADDITION TO MEETING ALL REQUIREMENTS OF THE CURRENT APPLICABLE CODES AND REGULATIONS. NO SUBSTITUTION TO MATERIALS SPECIFIED WILL BE ALLOWED UNLESS APPROVED BY THE OWNER.
    b. ELECTRICAL CONTRACTOR SHALL NOT ORDER OR PURCHASE ANY MATERIALS OR EQUIPMENT UNTIL PERMIT DRAWINGS HAVE BEEN APPROVED. NO ALLOWANCES WILL BE MADE FOR ANY CHANGES THAT OCCUR IF PERMIT DRAWINGS HAVE NOT BEEN APPROVED PRIOR TO ORDERING.
20. CUTTING AND FITTING
    a. PERFORM CUTTING, CORING, FITTING, REPAIRING AND FINISHING OF THE WORK NECESSARY FOR THE INSTALLATION OF THE EQUIPMENT OF THIS SECTION. HOWEVER, NO CUTTING OF THE WORK OF OTHER TRADES OR OF ANY STRUCTURAL MEMBER SHALL BE DONE WITHOUT THE CONSENT OF THE OWNER. PROPERLY FILL, SEAL, FIREPROOF, AND WATERPROOF ALL OPENINGS, SLEEVES, AND HOLES IN SLABS, WALLS, AND CASEWORK.
21. WIRING METHODS
    a. PROVIDE CODE APPROVED WIRING METHODS FOR BRANCH CIRCUITING INDOORS, SUCH AS NM CABLE (ONLY WHERE PERMITTED BY NEC 334), EMT CONDUIT, OR MC CABLE FOR MECHANICAL EQUIPMENT, LIGHTING, AND POWER.
    b. CONDUIT RUNS ON EXTERIOR OF BUILDING SHALL BE RIGID STEEL CONDUIT WITH WEATHER TIGHT, CORROSION-RESISTANT FITTINGS. SCHEDULE 40 PVC IS ACCEPTABLE WHERE PERMITTED BY CODE AND OR UNDERGROUND RUNS OR CONCRETE ENCASEMENT WHERE NOT EXPOSED TO PHYSICAL DAMAGE.
    c. THE MINIMUM SIZE OF CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED. CONDUIT CONNECTORS SHALL BE DOUBLE LOCKNUT TYPE, UL LISTED AND LABELED, WITH COMPRESSION OR SET SCREW FITTINGS.
    d. RIGID CONDUIT SHALL BE HOT DIPPED GALVANIZED.
    e. WHERE RACEWAYS ARE INSTALLED FOR OTHERS TO USE, OR FOR FUTURE USE, PROVIDE NYLON PULL STRING.
    f. PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE SEALED USING 3M FIRE BARRIER CAULK, NELSON ELECTRIC FLAMESEAL OR T&B FLAMESAFE OR OTHER APPROVED METHOD.
22. CONDUCTORS AND TERMINATIONS
    a. BRANCH CONDUCTORS SHALL BE COPPER, FEEDERS AS INDICATED ON RISER DIAGRAM. CONDUCTORS SHALL BE INSULATED FOR 600V NUMBER 12 AWG MINIMUM. PROVIDE WIRES AND CABLES AS INDICATED LISTED AND SUITABLE FOR TEMPERATURE, CONDITIONS, AND LOCATION WHERE INSTALLED.
23. MOTORS AND OTHER WIRING
    a. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUIT, WIRING, AND SAFETY SWITCHES FOR ALL MOTORS, AND OTHER ELECTRICAL EQUIPMENT, EVEN THOUGH THE MOTORS AND ELECTRICAL EQUIPMENT MAY BE SUPPLIED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL INCLUDE ALL WORK AND CONNECTIONS REQUIRED TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL. PROVIDE MAGNETIC STARTERS FOR EQUIPMENT AS INDICATED ON THE DRAWINGS.
    b. THE ELECTRICAL EQUIPMENT MAY INCLUDE BUT NOT BE LIMITED TO SUCH ITEMS AS GRILLE MOTORS AND INTERLOCKS, EXTERIOR AND INTERIOR SIGNAGE, STARTING DEVICES, MOTOR CONTROLLERS, FLOAT SWITCHES, ALARM DEVICES OR SYSTEMS, PUSH BUTTONS, EXHAUST FANS, DATA SYSTEMS, INTERCOMS AND STEREO SYSTEMS. THE ELECTRICAL CONTRACTOR SHALL VERIFY EQUIPMENT LOCATION AND SIZES WITH THE TRADE SUPPLYING THE EQUIPMENT BEFORE INSTALLING THE CONDUIT OR OUTLETS.
24. ELEVATOR(S)
    a. FURNISH AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS AND CONNECTIONS FOR ELEVATOR OPERATION. REFER TO ELEVATOR SHOP DRAWINGS FOR COMPLETE INFORMATION. PROVIDE SHUNT-TRIP OPERATION FOR ELEVATOR CIRCUIT WHERE REQUIRED. INCLUDE CONNECTIONS FOR SHAFT, SUMP PUMP, PIT LIGHT, RECEPTACLE, CAB LIGHT, ETC. BASIS OF DESIGN HP AND CIRCUIT CHARACTERISTICS SHOWN ON DRAWINGS MUST BE VERIFIED WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN OR INSTALLATION.
25. DEVICES
    a. HUBBELL, LEVITON, OR APPROVED EQUAL WITH MATCHING COVERPLATES.
    b. PROVIDE SPECIFICATION GRADE WIRING DEVICES, IN TYPES, CHARACTERISTICS, GRADES, COLORS, AND ELECTRICAL RATINGS FOR APPLICATIONS INDICATED, WHICH ARE UL-LISTED AND WHICH COMPLY WITH NEMA WD1 AND OTHER APPLICABLE UL AND NEMA STANDARDS. VERIFY COLOR SELECTIONS WITH ARCHITECT. PROVIDE DEVICE PLATES TO MATCH DEVICE COLORS.
    c. PROVIDE GFCI PROTECTION FOR ALL KITCHEN 15 AND 20-AMP RECEPTACLES. WHERE THE RECEPTACLE IS RENDERED INACCESSIBLE BY EQUIPMENT PROVIDE GFCI PROTECTION AT THE CIRCUIT BREAKER.
26. SERVICE ENTRANCE AND DISTRIBUTION EQUIPMENT
    a. ELECTRICAL CONTRACTOR MUST SUBMIT DRAWINGS FOR PERMIT AND RECEIVE APPROVAL PRIOR TO ORDERING EQUIPMENT. NO ALLOWANCES WILL BE MADE FOR EQUIPMENT CHANGES THAT OCCUR PRIOR TO RECEIPT OF APPROVED PLANS.
27. TRANSFORMERS
    a. DRY TYPE TRANSFORMERS - 15KVA TO 500 KVA - 600 VOLTS OR LESS, SINGLE AND THREE- PHASE. CONCRETE PADS FOR TRANSFORMERS, PROPERLY SLEEVED FOR TRANSFORMER TAP COMPARTMENTS.
    b. ALL APPLICABLE MATERIAL SHALL CONFORM TO NEMA STANDARDS. ALL APPLICABLE MATERIAL SHALL BEAR UL LABELS.
    c. TRANSFORMERS SHALL BE VENTILATED TYPE, SINGLE AND/OR THREE-PHASE, 60 HERTZ, DRY TYPE, AIR COOLED, TWO WINDING, INSULATED, HIGH EFFICIENCY, LOW SOUND LEVEL, AS LISTED ON THE DRAWINGS. PROVIDE TRANSFORMERS OF SAME MANUFACTURER AS SWITCHBOARDS AND PANELBOARDS.
    d. COILS SHALL UTILIZE AN UNDERWRITERS' LABORATORY APPROVED, 220 (C INSULATION SYSTEM AND THE AVERAGE TEMPERATURE RISE SHALL NOT EXCEED 115°C ABOVE A 40°C MAXIMUM AMBIENT. ALL UNITS SHALL HAVE NEMA STANDARD TAPS. 2-2 1/2% AN AND 4-2 1/2% BN.
    e. CORES SHALL BE MANUFACTURED WITH A HIGH GRADE, NON-AGING SILICON STEEL STACKED WITHOUT GAPS AND FIRMLY CLAMPED. THE CORE AND COIL ASSEMBLY SHALL BE MOUNTED ON VIBRATION PADS AND BOLTED TO THE ENCLOSURE. THE ENCLOSURE FOR SEPARATELY MOUNTED TRANSFORMERS SHALL BE PROVIDED WITH LIFTING EYES OR BRACKETS NEMA-3R OUTDOOR, TO PREVENT ACCESS TO LIVE PARTS. TOP OF CASE TEMPERATURES SHALL NOT EXCEED UL ACCEPTABLE LEVELS.
    f. TRANSFORMERS SHALL BE INSTALLED ON MINIMUM 3-1/2" CONCRETE PADS, PLUMB AND LEVEL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE CODES.
    g. TERMINATE PRIMARY AND SECONDARY CONDUCTOR WITH COMPRESSION CONNECTORS. GROUNDING TO BE PER NEC.
    h. VERIFY INCOMING VOLTAGE TO TRANSFORMER AND SET TAPS AT THE VOLTAGE LEVEL.
    i. PROVIDE LOCKABLE BREAKERS FOR FEEDERS SUPPLYING TRANSFORMERS THAT ARE NOT LOCATED WITHIN SITE OF THE OVER-CURRENT PROTECTION. TRANSFORMERS SHALL BE FIELD MARKED WITH THE LOCATION OF THE OVER-CURRENT PROTECTION DEVICE.
28. DISCONNECTS AND FUSED SWITCHES
    a. HEAVY DUTY TYPE, HORSEPOWER RATED WITH INTERLOCKING COVER. NEMA 1 TYPICAL. OUTDOOR AND WET LOCATION SWITCHES SHALL BE RAINTIGHT TYPE NEMA 3RR. ALL SWITCHES SHALL BE LOCKABLE. FUSES IN CIRCUITS RATED AT 600 AMPERES OR LESS SHALL BE UL CLASS RK1 DUAL-ELEMENT, TIME-DELAY, CURRENT LIMITING FUSES. FUSES IN CIRCUITS RATED AT 601 AMPERES OR LARGER SHALL BE UL CLASS L TIME-DELAY, CURRENT LIMITING FUSES.
29. NAMEPLATES
    a. PROVIDE PERMANENT NAMEPLATE LABELING ON ALL DISCONNECTS. INCLUDE LOAD SERVED, VOLTAGE, PHASE, HORSEPOWER, FUSE SIZE, AND TYPE.
30. MOUNTING
    a. MOUNT INDEPENDENT OF THE MECHANICAL UNIT HOUSING UNLESS SPECIFICALLY ACCEPTED BY THE LOCAL CODE AUTHORITY. PROVIDE UNISTRUT SUPPORT CHANNELS MOUNTED IN COORDINATION WITH ROOF PENETRATION AND PATCHING WORK. COORDINATE WITH GENERAL CONTRACTOR.
31. GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS AND EQUIPMENT
    a. PROVIDE GROUNDING AND BONDING FOR ELECTRICAL SERVICE IN ACCORDANCE WITH NEC ARTICLE 250.
    b. ALL MAJOR PARTS NOT CARRYING CURRENT, INCLUDING BUT NOT LIMITED TO, SECONDARY FEEDER CIRCUIT, EQUIPMENT AND PANELBOARD ENCLOSURES, PULL AND JUNCTION BOXES, SHALL BE PROPERLY GROUNDED. METALLIC RACEWAYS SHALL UTILIZE DOUBLE LOCKNUTS AND OTHER FITTINGS AS REQUIRED TO PROVIDE GROUND CONTINUITY.
32. LIGHTING CONTACTORS
    a. PROVIDE LIGHTING CONTACTORS AS INDICATED ON DRAWINGS. 30A, 12-POLE LIGHTING CONTACTOR IN NEMA 1 ENCLOSURE.
33. MULTI-TENANT METER CENTERS
    a. PROVIDE METER CENTERS(S) AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. METER CENTERS SHALL HAVE MAIN LUGS ONLY OR MAIN BREAKERS AS REQUIRED, AND SHALL HAVE BRANCH BREAKER INSTALLED FOR EACH METER SOCKET. METER CENTERS SHALL BE EATON, SQUARE D, GE BY ABB, OR EQUAL, AND SHALL BE OF THE SAME MANUFACTURE AS LOAD CENTERS OR PANELBOARDS SERVED. METER CENTERS SHALL BE ENCLOSED NEMA 1, NEMA 3R AS REQUIRED. FINAL CONFIGURATION (NUMBER OF METERS PER SECTION, END-MAIN/CENTER-MAIN, ETC. SHALL BE DETERMINED BY CONTRACTOR. ALL BUSSING MUST BE RATED FOR THE LOADS SERVED. METER CENTERS SHALL BE RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT.
34. PANELBOARDS
    a. PROVIDE BRANCH CIRCUIT PANELBOARD(S) AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. PANELBOARDS SHALL HAVE BOLTED, THERMAL AND MAGNETIC BREAKERS WITH MAIN LUGS ONLY OR MAIN BREAKERS AS REQUIRED. PANELBOARDS SHALL BE EATON, SQUARE D, GE BY ABB, OR EQUAL, AND BE ENCLOSED IN NEMA 1 TYPE HOUSING UNLESS NOTED OTHERWISE. ENCLOSURE(S) SHALL BE COMPLETE WITH A HINGED DOOR, CYLINDER LOCK, AND A NEATLY TYPED DIRECTORY UNDER PLASTIC COVER IN EACH PANEL DOOR. ALL MULTIPLE POLE BREAKERS SHALL HAVE A COMMON TRIP HANDLE. ALL PANELS AND BREAKERS SHALL BE RATED TO WITHSTAND AVAILABLE FAULT CURRENT.
35. LIGHTING
    a. PROVIDE A NEW LIGHTING SYSTEM COMPLETE AND FULLY OPERATIONAL AND IN CONFORMANCE WITH CODE AND UL LISTING REQUIREMENTS. CLEAN ALL FIXTURES AT TIME OF JOB COMPLETION UTILIZING MANUFACTURERS APPROVED OR RECOMMENDED CLEANING SOLUTIONS. ALL FIXTURES AND LAMPS ARE PROVIDED BY THIS CONTRACTOR AS SCHEDULED UNLESS NOTED OTHERWISE. CONTRACTOR SHALL FURNISH ALL BOXES, MOUNTING KITS, TRANSFORMERS, CONTROLLERS, AND OTHER COMPONENTS NECESSARY FOR A COMPLETE AND FULLY FUNCTIONAL INSTALLATION.
    b. WHERE DIMMERS AND/OR DIMMING SYSTEMS ARE REQUIRED, CONTRACTOR TO FURNISH DIMMERS THAT ARE COMPATIBLE WITH FIXTURE SOURCE AND RATED FOR THE WATTAGE OF THE DIMMING ZONE. PROVIDE ADDITIONAL DIMMERS AS REQUIRED TO MEET ZONE LOAD REQUIREMENTS.
36. GENERATORS
    a. GENERATORS, TRANSFER SWITCHES, FUEL CAPACITY/RUN-TIMES, AND START-UP/OPERATION REQUIREMENTS SHALL CONFORM TO THE REQUIREMENTS FOR THEIR USE - STAND-BY, LEGALLY REQUIRED STAND-BY, EMERGENCY, ETC. CONTACTOR SHALL COORDINATE PAD REQUIREMENTS WITH GENERATOR SUPPLIER AND LOCATE ALL CONDUIT OPENINGS PER MANUFACTURER'S INSTALLATION GUIDES. PROVIDE ALL ANCILLARY WIRING FOR CONTROL, COMMUNICATION, BATTERY CHARGE, BLOCK HEATER, ETC. INSTALL PAD AND GENERATOR SUCH THAT REQUIRED CLEARANCES FROM BUILDINGS, BUILDING OPENINGS, AND OTHER OBSTRUCTIONS ARE MAINTAINED. COORDINATE GENERATOR CIRCUIT BREAKER/FEEDER REQUIREMENTS WITH ACTUAL EQUIPMENT BEING CONNECTED - FIRE PUMP, ETC. WHERE THE GENERATOR IS REQUIRED TO OPERATE AS A SEPARATELY DERIVED SYSTEM (GENERATOR SERVING MULTIPLE BUILDINGS/STRUCTURES FOR EXAMPLE) PROVIDE PROPER GROUNDING AND USE 4-POLE TRANSFER SWITCHES AS REQUIRED BY NEC 250.
37. TELEPHONE SYSTEM
    a. TELEPHONE WIRING AND SYSTEM PROVIDED BY OWNER. VERIFY SYSTEM REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER PRIOR TO START OF CONSTRUCTION. ELECTRICAL CONTRACTOR SHALL PROVIDE PLASTER RING AND PULL STRING FROM EACH DEVICE LOCATION TO ABOVE ACCESSIBLE CEILING.
38. SECURITY SYSTEM NOTES
    a. SECURITY WIRING AND SYSTEM PROVIDED BY OWNER. VERIFY SYSTEM REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER PRIOR TO START OF CONSTRUCTION. PROVIDE POWER FOR OWNER'S HEAD-END EQUIPMENT AND REMOTE POWER FOR SECURE DOORS AS REQUIRED.
39. DATA/POS/A-V/SYSTEM NOTES
    a. DATA, POS AND/OR A-V WIRING AND SYSTEMS PROVIDED BY OWNER. VERIFY SYSTEM REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER PRIOR TO START OF CONSTRUCTION. ELECTRICAL CONTRACTOR SHALL PROVIDE PLASTER RING AND PULL STRING FROM EACH DEVICE LOCATION TO ABOVE ACCESSIBLE CEILING.
40. FIRE ALARM SYSTEM
    a. FIRE ALARM SYSTEM TO BE DESIGN-BUILD BY CONTRACTOR. CONTRACTOR SHALL PROVIDE ALL REQUIRED DRAWINGS AND SUBMIT TO AUTHORITIES. REFER TO ARCHITECT'S CODE SHEET FOR RELEVANT DESIGN CRITERIA. SUBMIT DRAWINGS TO OWNER/ARCHITECT FOR REVIEW PRIOR TO SUBMITTING TO AUTHORITIES. PROVIDE REQUIRED ITEMS INCLUDING BUT NOT LIMITED TO RELAY MODULES, MONITOR MODULES, RETURN-AIR DETECTORS, ELEVATOR RECALL, ETC. PROVIDE REMOTE ANNUNCIATOR PANEL(S) AT LOCATION(S) APPROVED BY ARCHITECT AND AUTHORITIES.

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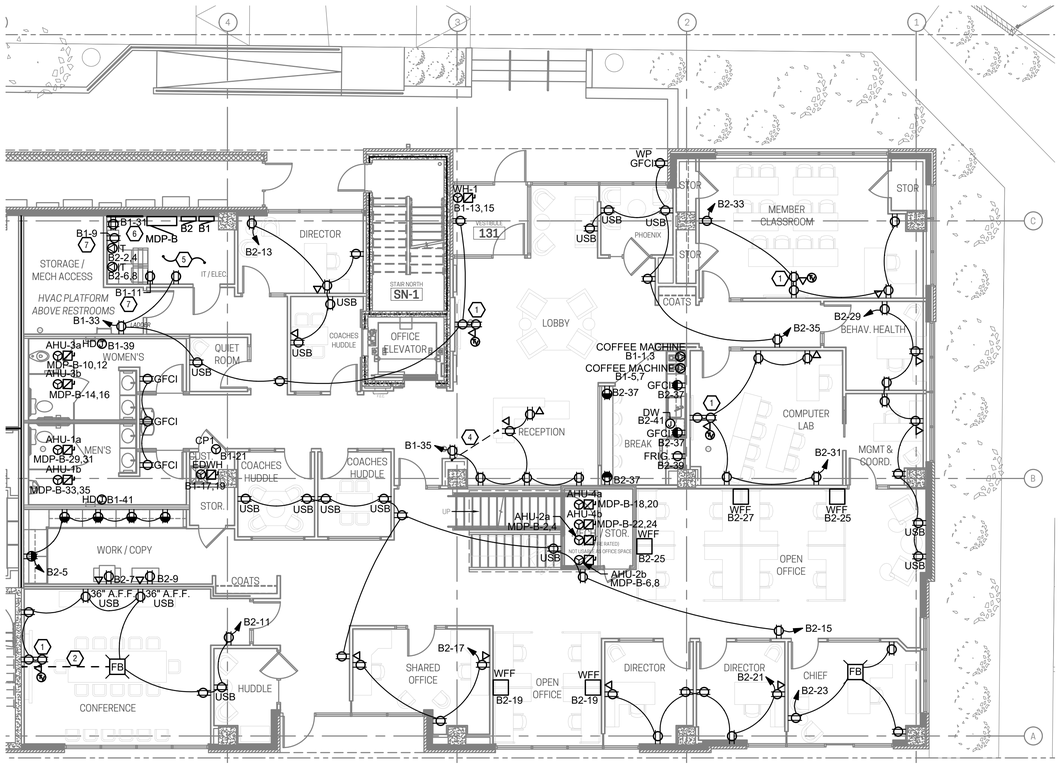
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ELECTRICAL SPECIFICATIONS

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SCOPE OF WORK

NEW CONSTRUCTION OF A MIXED USE MUTLI-TENANT BUILDING. COMMERCIAL TENANTS ON THE FIRST AND SECOND FLOORS AND RESIDENTIAL TENANTS ON FLOORS 2-6.

SCOPE OF WORK INCLUDES ELECTRICAL EQUIPMENT, FEEDERS, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES.

SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION.

GENERAL NOTES - OVERALL PROJECT

A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

GENERAL NOTES - ELEVATOR(S)

A. FURNISH AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS AND CONNECTIONS FOR ELEVATOR OPERATION. REFER TO ELEVATOR SHOP DRAWINGS FOR COMPLETE INFORMATION. PROVIDE SHUNT-TRIP OPERATION FOR ELEVATOR CIRCUIT WHERE REQUIRED. INCLUDE CONNECTIONS FOR SHAFT, SUMP PUMP, PIT LIGHT, RECEPTACLE, CAB LIGHT, ETC. BASIS OF DESIGN HP AND CIRCUIT CHARACTERISTICS SHOWN ON DRAWINGS MUST BE VERIFIED WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN OR INSTALLATION.

GENERAL NOTES - GENERATOR

A. GENERATORS, TRANSFER SWITCHES, FUEL CAPACITY/RUN-TIMES, AND START-UP/OPERATION REQUIREMENTS SHALL CONFORM TO THE REQUIREMENTS FOR THEIR USE - STAND-BY, LEGALLY REQUIRED STAND-BY, EMERGENCY, ETC.

B. CONTRACTOR SHALL COORDINATE PAD REQUIREMENTS WITH GENERATOR SUPPLIER AND LOCATE ALL CONDUIT OPENINGS PER MANUFACTURER'S INSTALLATION GUIDES.

C. PROVIDE ALL ANCILLARY WIRING FOR CONTROL, COMMUNICATION, BATTERY CHARGE, BLOCK HEATER, ETC.

D. INSTALL PAD AND GENERATOR SUCH THAT REQUIRED CLEARANCES FROM BUILDINGS, BUILDING OPENINGS, AND OTHER OBSTRUCTIONS ARE MAINTAINED.

E. COORDINATE GENERATOR CIRCUIT BREAKER/FEEDER REQUIREMENTS WITH ACTUAL EQUIPMENT BEING CONNECTED - FIRE PUMP, ETC.

F. WHERE THE GENERATOR IS REQUIRED TO OPERATE AS A SEPARATELY DERIVED SYSTEM (GENERATOR SERVING MULTIPLE BUILDINGS/STRUCTURES FOR EXAMPLE) PROVIDE PROPER GROUNDING AND USE 4-POLE TRANSFER SWITCHES AS REQUIRED BY NEC 250.

(#) KEYED SHEET NOTES - OFFICE

1. PROVIDE RECEPTACLE OUTLETS UP HIGH AND AT STANDARD HEIGHT FOR WALL MOUNTED TV. FIELD COORDINATE LOCATION AND MOUNTING HEIGHT WITH GC.
2. PROVIDE 1-1/4" CONDUIT UNDER SLAB FROM FLOOR BOX LOCATION INTO THE WALL STUD SPACE FOR IT CABLING BETWEEN FLOOR BOX AND TV.
3. GENERAL USE RECEPTACLES INSTALLED WITHIN 25' OF ALL MECHANICAL EQUIPMENT AS PART OF THE "SHELL" SCOPE. SHOWN FOR CODE COMPLIANCE ONLY. SEE SHEET E106 FOR ADDITIONAL INFORMATION.
4. POWER TO RECEPTION DESK TO BE ROUTED BELOW THE SLAB.
5. ELECTRICAL EQUIPMENT PROVIDED AS PART OF THE SHELL SCOPE. SEE SHEET E100 AND E101 FOR ADDITIONAL INFORMATION.
6. INSTALL 4'X4'X3/4" PLYWOOD BACKBOARD FOR AND QUAD RECEPTACLE FOR DATA/PHONE UTILITIES.
7. PROVIDE DEDICATED CIRCUIT FOR IT EQUIPMENT.

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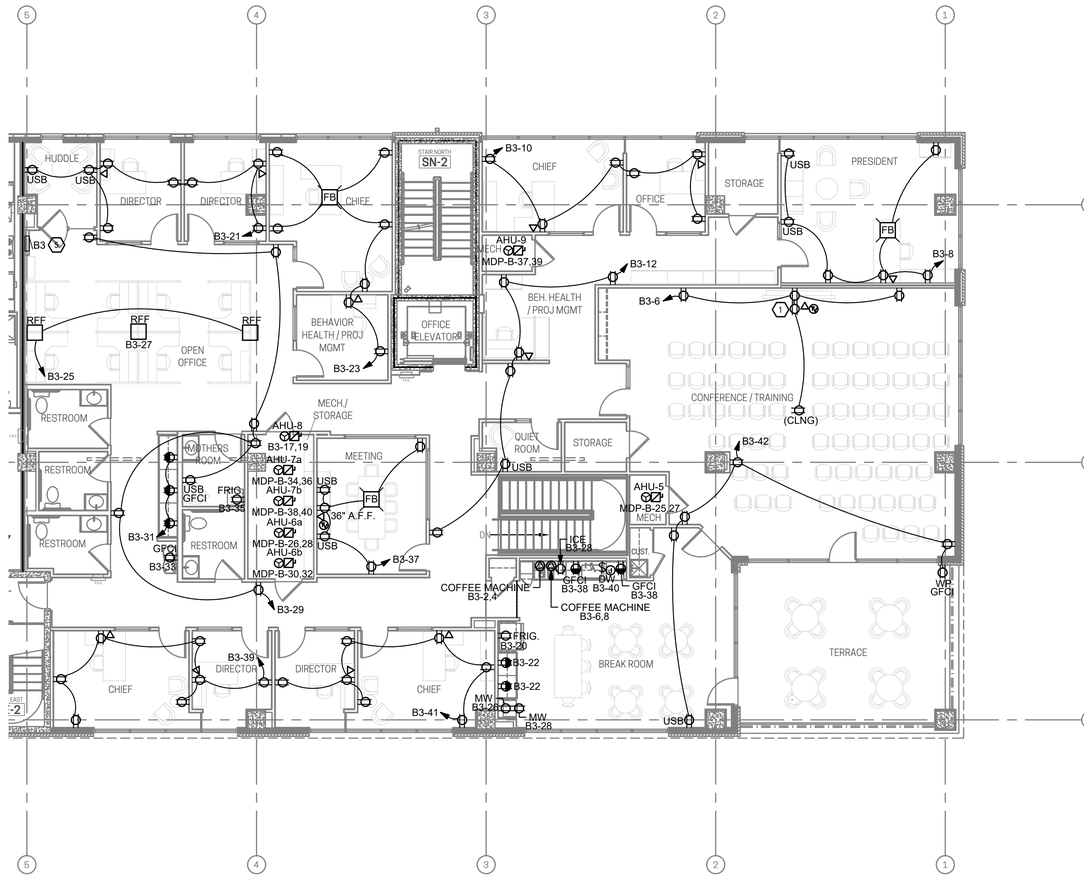
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TI OFFICE FIRST FLOOR

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SCOPE OF WORK

NEW CONSTRUCTION OF A MIXED USE MUTLI-TENANT BUILDING. COMMERCIAL TENANTS ON THE FIRST AND SECOND FLOORS AND RESIDENTIAL TENANTS ON FLOORS 2-6.

SCOPE OF WORK INCLUDES ELECTRICAL EQUIPMENT, FEEDERS, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES.

SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION.

GENERAL NOTES - OVERALL PROJECT

A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

GENERAL NOTES - ELEVATOR(S)

A. FURNISH AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS AND CONNECTIONS FOR ELEVATOR OPERATION. REFER TO ELEVATOR SHOP DRAWINGS FOR COMPLETE INFORMATION. PROVIDE SHUNT-TRIP OPERATION FOR ELEVATOR CIRCUIT WHERE REQUIRED. INCLUDE CONNECTIONS FOR SHAFT, SUMP PUMP, PIT LIGHT, RECEPTACLE, CAB LIGHT, ETC. BASIS OF DESIGN HP AND CIRCUIT CHARACTERISTICS SHOWN ON DRAWINGS MUST BE VERIFIED WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN OR INSTALLATION.

GENERAL NOTES - GENERATOR

A. GENERATORS, TRANSFER SWITCHES, FUEL CAPACITY/RUN-TIMES, AND START-UP/OPERATION REQUIREMENTS SHALL CONFORM TO THE REQUIREMENTS FOR THEIR USE - STAND-BY, LEGALLY REQUIRED STAND-BY, EMERGENCY, ETC.

B. CONTRACTOR SHALL COORDINATE PAD REQUIREMENTS WITH GENERATOR SUPPLIER AND LOCATE ALL CONDUIT OPENINGS PER MANUFACTURER'S INSTALLATION GUIDES.

C. PROVIDE ALL ANCILLARY WIRING FOR CONTROL, COMMUNICATION, BATTERY CHARGE, BLOCK HEATER, ETC.

D. INSTALL PAD AND GENERATOR SUCH THAT REQUIRED CLEARANCES FROM BUILDINGS, BUILDING OPENINGS, AND OTHER OBSTRUCTIONS ARE MAINTAINED.

E. COORDINATE GENERATOR CIRCUIT BREAKER/FEEDER REQUIREMENTS WITH ACTUAL EQUIPMENT BEING CONNECTED - FIRE PUMP, ETC.

F. WHERE THE GENERATOR IS REQUIRED TO OPERATE AS A SEPARATELY DERIVED SYSTEM (GENERATOR SERVING MULTIPLE BUILDINGS/STRUCTURES FOR EXAMPLE) PROVIDE PROPER GROUNDING AND USE 4-POLE TRANSFER SWITCHES AS REQUIRED BY NEC 250.

⟨#⟩ KEYED SHEET NOTES - OFFICE

1. PROVIDE RECEPTACLE OUTLETS UP HIGH AND AT STANDARD HEIGHT FOR WALL MOUNTED TV. FIELD COORDINATE LOCATION AND MOUNTING HEIGHT WITH GC.
2. PROVIDE 1-1/4" CONDUIT UNDER SLAB FROM FLOOR BOX LOCATION INTO THE WALL STUD SPACE FOR IT CABLING BETWEEN FLOOR BOX AND TV.
3. GENERAL USE RECEPTACLES INSTALLED WITHIN 25' OF ALL MECHANICAL EQUIPMENT AS PART OF THE "SHELL" SCOPE. SHOWN FOR CODE COMPLIANCE ONLY. SEE SHEET E106 FOR ADDITIONAL INFORMATION.
4. POWER TO RECEPTION DESK TO BE ROUTED BELOW THE SLAB.
5. ELECTRICAL EQUIPMENT PROVIDED AS PART OF THE SHELL SCOPE. SEE SHEET E100 AND E101 FOR ADDITIONAL INFORMATION.
6. INSTALL 4'X4'X3/4" PLYWOOD BACKBOARD FOR AND QUAD RECEPTACLE FOR DATA/PHONE UTILITIES.
7. PROVIDE DEDICATED CIRCUIT FOR IT EQUIPMENT.

PARAMOUNT WORKS

NWC KEMPER LANE & E. McMILLAN ST
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WALNUT HILLS NEIGHBORHOOD

No.	Issuances / Revisions / Submissions	Date
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PR-10535

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Drawing Title
ELECTRICAL POWER TI OFFICE PLANS

Document No.
TI-E101

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E2
TI OFFICE SECOND FLOOR
1/8"=1'-0"

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SCOPE OF WORK

NEW CONSTRUCTION OF A MIXED USE MUTLI-TENANT BUILDING. COMMERCIAL TENANTS ON THE FIRST AND SECOND FLOORS AND RESIDENTIAL TENANTS ON FLOORS 2-6.

SCOPE OF WORK INCLUDES ELECTRICAL EQUIPMENT, FEEDERS, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES.

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C. PROVIDE ALL ANCILLARY WIRING FOR CONTROL, COMMUNICATION, BATTERY CHARGE, BLOCK HEATER, ETC.

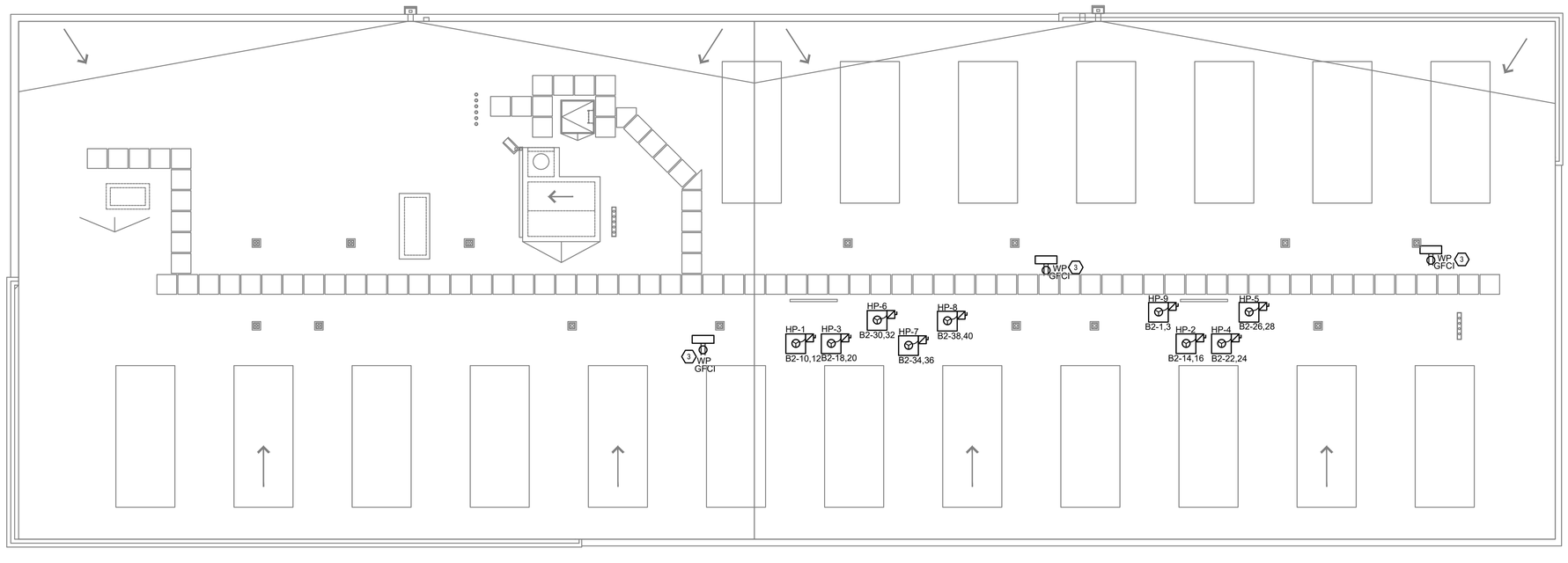
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7. PROVIDE DEDICATED CIRCUIT FOR IT EQUIPMENT.



E3 TI OFFICE ROOF

1/8"=1'-0"

PARAMOUNT WORKS

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WALNUT HILLS NEIGHBORHOOD

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Drawing Title
ELECTRICAL POWER TI OFFICE PLANS

Document No.
TI-E102

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PARAMOUNT LAUNCH TENANT FITOUT LUMINAIRE SCHEDULE

CALLOUT	DESCRIPTION	MODEL 1	INPUT VA
A	4' SUSPENDED LINEAR	TBD	64
B	PENDANT	TBD	64
C	WALL SCONCE	TBD	64
D	PENDANT	TBD	64
E	PENDANT	TBD	64
EM	EMERGENCY WALL PACK - W/ 90 MIN. BACKUP	SURE LITES SEL-50	3
EM2	EMERGENCY RECESSED - W/ 90 MIN. BACKUP	COOPER SURE-LITES SELMTG SERIES	3
EX	LED EXIT SIGN	SURE-LITES APX7R	1.3
EX/EM	EXIT/EMERGENCY COMBO - 90 MIN. BACKUP	SURE LITES APC-H-7-R	3
R1	2X2 LED FLAT PANEL	METALUX 22CGTS-L3C3	29.7
R2	2X4 LED FLAT PANEL	METALUX 24CGTS-L3C3	37.4
R3	6" ROUND DOWNLIGHT	SGE6LEDFX-20L-DX-BH27-AR6223FX-MB	17
ST1-48	4' UTILITY STRIP FIXTURE	METALUX 4SNLED-LD5-48SL-UNV	19.3
V1	VANITY LIGHT	EFFICIENT LIGHTING EL228L-25LEDAC-BN	25
WW	RECESSED LED WALL WASHER	TBD	30

* NL DENOTES EGRESS ILLUMINATION

SCOPE OF WORK

NEW CONSTRUCTION OF A MIXED USE MUTLI-TENANT BUILDING. COMMERCIAL TENANTS ON THE FIRST AND SECOND FLOORS AND RESIDENTIAL TENANTS ON FLOORS 2-6.

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GENERAL NOTES - LIGHTING

A. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES.

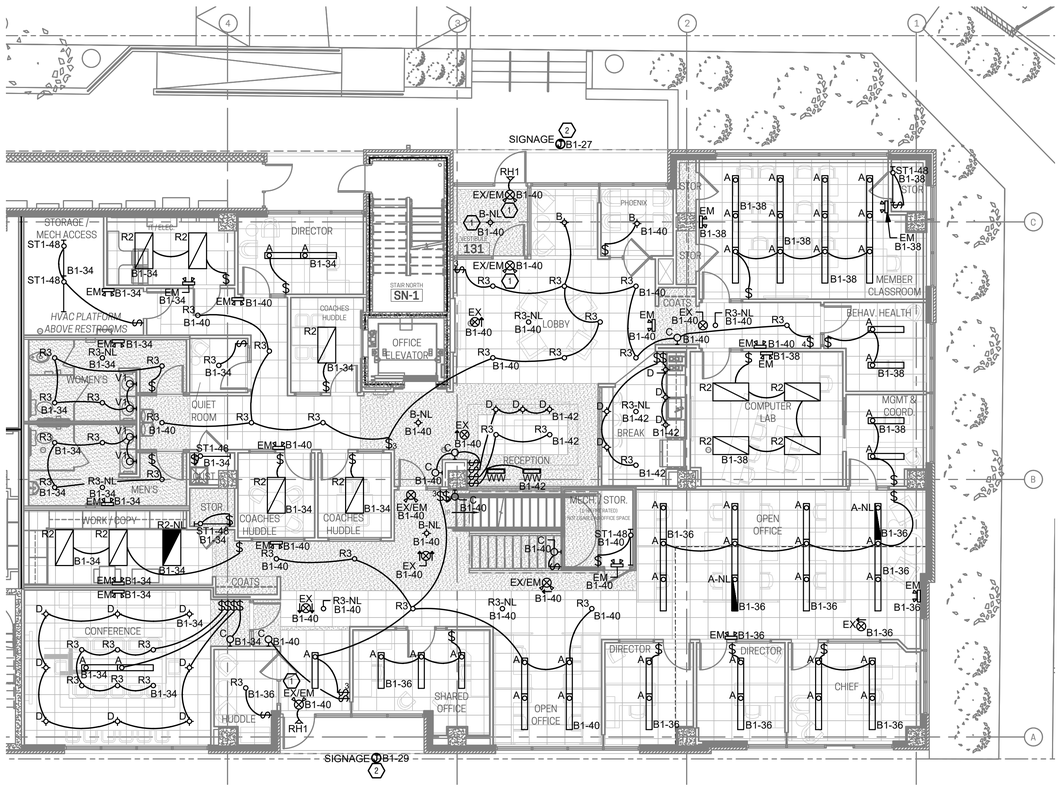
B. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL SWITCHING.

C. LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED.

D. WHERE DIMMERS AND/OR DIMMING SYSTEMS ARE REQUIRED, CONTRACTOR TO FURNISH DIMMERS THAT ARE COMPATIBLE WITH FIXTURE SOURCE AND RATED FOR THE WATTAGE OF THE DIMMING ZONE. PROVIDE ADDITIONAL DIMMERS AS REQUIRED TO MEET ZONE LOAD REQUIREMENTS.

KEYED SHEET NOTES

1. FIXTURE PROVIDED AS PART OF THE SHELL SCOPE. SEE SHEET E200 & E201 FOR ADDITIONAL INFORMATION.
2. SIGNAGE CIRCUIT PROVIDED AS PART OF THE SHELL SCOPE. SEE SHEET E200 FOR ADDITIONAL INFORMATION.



E4 — **TI OFFICE FIRST FLOOR**

1/8"=1'-0"

PARAMOUNT WORKS

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CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

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ELECTRICAL LIGHTING
TI OFFICE PLANS

Document No.
TI-E200

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PARAMOUNT LAUNCH TENANT FITOUT LUMINAIRE SCHEDULE

CALLOUT	DESCRIPTION	MODEL 1	INPUT VA
A	4' SUSPENDED LINEAR	TBD	64
B	PENDANT	TBD	64
C	WALL SCONCE	TBD	64
D	PENDANT	TBD	64
E	PENDANT	TBD	64
EM	EMERGENCY WALL PACK - W/ 90 MIN. BACKUP	SURE LITES SEL-50	3
EM2	EMERGENCY RECESSED - W/ 90 MIN. BACKUP	COOPER SURE-LITES SELMTG SERIES	3
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EX/EM	EXIT/EMERGENCY COMBO - 90 MIN. BACKUP	SURE LITES APC-H-7-R	3
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ST1-48	4' UTILITY STRIP FIXTURE	METALUX 4SNLED-LD5-48SL-UNV	19.3
V1	VANITY LIGHT	EFFICIENT LIGHTING EL228L-25LEDAC-BN	25
WW	RECESSED LED WALL WASHER	TBD	30

* NL DENOTES EGRESS ILLUMINATION

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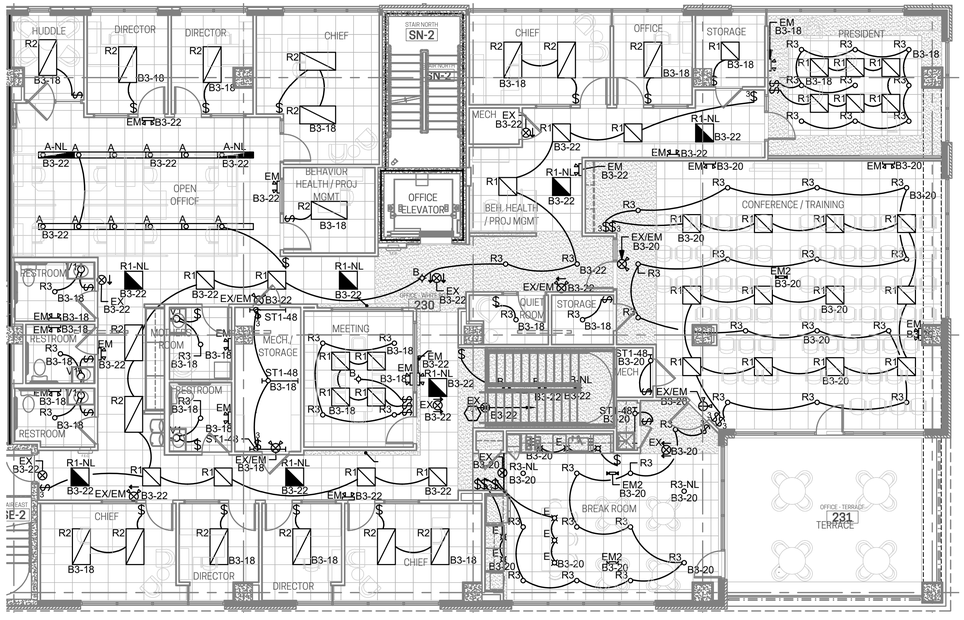
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KEYED SHEET NOTES

1. FIXTURE PROVIDED AS PART OF THE SHELL SCOPE. SEE SHEET E200 & E201 FOR ADDITIONAL INFORMATION.
2. SIGNAGE CIRCUIT PROVIDED AS PART OF THE SHELL SCOPE. SEE SHEET E200 FOR ADDITIONAL INFORMATION.



E5 TI OFFICE SECOND FLOOR

1/8"=1'-0"

PARAMOUNT WORKS

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2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

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Drawing Title
ELECTRICAL LIGHTING TI OFFICE PLANS

Document No.
TI-E201

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MDP–B

ROOM
MOUNTING SURFACE
FED FROM SDB
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 1000
NEUTRAL 100%

AIC T.B.D.
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	200/3	33.1	PANEL B1	a	2	60/2	10.8	AHU–2a
3	|			b	4	|		
5	|			c	6	45/2	9.26	AHU–2b
7	200/3	72	PANEL B2	a	8	|		
9	|			b	10	60/2	10.8	AHU–3a
11	|			c	12	|		
13	200/3	41.8	PANEL B3	a	14	25/2	4.64	AHU–3b
15	|			b	16	|		
17	|			c	18	60/2	11.8	AHU–4a
19	150/3	22.4	ELEVATOR MOTOR	a	20	|		
21	|			b	22	45/2	9.26	AHU–4b
23	|			c	24	|		
25	125/2	24.3	AHU–5	a	26	60/2	10.8	AHU–6a
27	|			b	28	|		
29	60/2	10.8	AHU–1a	c	30	25/2	4.64	AHU–6b
31	|			a	32	|		
33	25/2	4.64	AHU–1b	b	34	60/2	10.8	AHU–7a
35	|			c	36	|		
37	60/2	11.2	AHU–9	a	38	25/2	4.64	AHU–7b
39	|			b	40	|		
41	20/1	0	SPACE	c	42	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	14.6	18.2	(125%)	RECEPTACLES	51.6	30.8	(50%>10)
LARGEST MOTOR	22.4	5.61	(25%)	CONTINUOUS	4.5	5.63	(125%)
MOTORS	22.4	22.4	(100%)	NONCONTINUOUS	15.1	15.1	(100%)
				HEATING	200	200	(100%)
				COOLING	49.2	0	(0%)
				TOTAL LOAD		298	
				BALANCED 3-PHASE LOAD		826 A	
				PHASE A		104%	
				PHASE B		104%	
				PHASE C		92.4%	

B1

ROOM
MOUNTING FLUSH
FED FROM MDP–B
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 200
NEUTRAL 100%

AIC T.B.D.
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	30/2	3.49	COFFEE MACHINE	a	2	20/1	0	SPACE
3	|			b	4	20/1	0	SPACE
5	30/2	3.49	COFFEE MACHINE	c	6	20/1	0	SPACE
7	|			a	8	20/1	0	SPACE
9	20/1	0.18	RECEPTACLE	b	10	20/1	0	SPACE
11	20/1	0.18	RECEPTACLE	c	12	20/1	0	SPACE
13	20/2	3	WH–1	a	14	20/1	0	SPACE
15	|			b	16	20/1	0	SPACE
17	30/2	4.5	EDWH	c	18	20/1	0	SPACE
19	|			a	20	20/1	0	SPACE
21	20/1	1.2	CP1	b	22	20/1	0.18	RECEPTACLE
23	20/1	0.36	RECEPTACLE	c	24	20/1	0.696	ESP1
25	20/1	0	SPACE	a	26	20/1	0.034	LIGHTING
27	20/1	1.2	SIGNAGE	b	28	20/1	0.18	RECEPTACLE
29	20/1	1.2	SIGNAGE	c	30	20/1	1.2	CAB LTS/CONTROLS
31	20/1	0.36	RECEPTACLE	a	32	20/1	0.18	RECEPTACLE
33	20/1	1.26	RECEPTACLE	b	34	20/1	1.62	LIGHTING
35	20/1	1.08	RECEPTACLE	c	36	20/1	1.5	LIGHTING
37	20/1	0.54	RECEPTACLE	a	38	20/1	1.2	LIGHTING
39	20/1	1.09	HAND DRYER	b	40	20/1	1.47	LIGHTING
41	20/1	1.09	HAND DRYER	c	42	20/1	0.64	LIGHTING

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	10.1	12.6	(125%)	CONTINUOUS	4.5	5.63	(125%)
RECEPTACLES	13.4	11.7	(50%>10)	NONCONTINUOUS	2.18	2.18	(100%)
				HEATING	3	3	(100%)
				TOTAL LOAD		35.1	
				BALANCED 3-PHASE LOAD		97.3 A	
				PHASE A		85.7%	
				PHASE B		105%	
				PHASE C		109%	

B2

ROOM
MOUNTING FLUSH
FED FROM MDP–B
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 200
NEUTRAL 100%

AIC T.B.D.
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	30/2	4.22	HP–9	a	2	30/2	3	IT EQUIPMENT
3	|			b	4	|		
5	20/1	0.9	RECEPTACLE	c	6	30/2	3	IT EQUIPMENT
7	20/1	0.18	RECEPTACLE	a	8	|		
9	20/1	0.18	RECEPTACLE	b	10	40/2	5.14	HP–1
11	20/1	1.62	RECEPTACLE	c	12	|		
13	20/1	0.9	RECEPTACLE	a	14	50/2	6.82	HP–2
15	20/1	1.62	RECEPTACLE	b	16	|		
17	20/1	0.54	RECEPTACLE	c	18	30/2	4.22	HP–3
19	20/1	0.72	RECEPTACLE	a	20	|		
21	20/1	1.08	RECEPTACLE	b	22	50/2	6.91	HP–4
23	20/1	0.72	RECEPTACLE	c	24	|		
25	20/1	0.72	RECEPTACLE	a	26	50/2	6.91	HP–5
27	20/1	0.72	RECEPTACLE	b	28	|		
29	20/1	1.44	RECEPTACLE	c	30	50/2	6.82	HP–6
31	20/1	1.08	RECEPTACLE	a	32	|		
33	20/1	0.9	RECEPTACLE	b	34	40/2	5.14	HP–7
35	20/1	1.08	RECEPTACLE	c	36	|		
37	20/1	0.72	RECEPTACLE	a	38	25/2	3.02	HP–8
39	20/1	0.5	FRIG.	b	40	|		
41	20/1	1.2	DISHWASHER	c	42	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LARGEST MOTOR	6.91	1.73	(25%)	NONCONTINUOUS	7.7	7.7	(100%)
RECEPTACLES	15.1	12.6	(50%>10)	HEATING	49.2	49.2	(100%)
				COOLING	49.2	0	(0%)
				TOTAL LOAD		71.2	
				BALANCED 3-PHASE LOAD		198 A	
				PHASE A		97.5%	
				PHASE B		106%	
				PHASE C		96%	

B3

ROOM
MOUNTING FLUSH
FED FROM MDP–B
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 200
NEUTRAL 100%

AIC T.B.D.
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0	SPACE	a	2	30/2	3.49	COFFEE MACHINE
3	20/1	0	SPACE	b	4	|		
5	20/1	0	SPACE	c	6	30/2	3.49	COFFEE MACHINE
7	20/1	0	SPACE	a	8	|		
9	20/1	0	SPACE	b	10	20/1	0.9	RECEPTACLE
11	20/1	0	SPACE	c	12	20/1	1.26	RECEPTACLE
13	20/1	0	SPACE	a	14	20/1	1.08	RECEPTACLE
15	20/1	0	SPACE	b	16	20/1	1.08	RECEPTACLE
17	45/2	9.01	AHU–8	c	18	20/1	1.5	LIGHTING
19	|			a	20	20/1	1.39	LIGHTING
21	20/1	1.44	RECEPTACLE	b	22	20/1	1.65	LIGHTING
23	20/1	1.44	RECEPTACLE	c	24	20/1	0.5	FRIG.
25	20/1	0.72	RECEPTACLE	a	26	20/1	0.36	RECEPTACLE
27	20/1	0.36	RECEPTACLE	b	28	15/1	0.432	ICE
29	20/1	1.26	RECEPTACLE	c	30	20/1	1.5	MICROWAVE
31	20/1	0.54	RECEPTACLE	a	32	20/1	1.5	MICROWAVE
33	20/1	0.18	RECEPTACLE	b	34	20/1	0	SPACE
35	20/1	0.5	FRIG.	c	36	20/1	0	SPACE
37	20/1	1.08	RECEPTACLE	a	38	20/1	0.36	RECEPTACLE
39	20/1	1.26	RECEPTACLE	b	40	20/1	1.2	DISHWASHER
41	20/1	1.26	RECEPTACLE	c	42	20/1	1.08	RECEPTACLE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	4.54	5.68	(125%)	NONCONTINUOUS	5.2	5.2	(100%)
RECEPTACLES	23.1	16.5	(50%>10)	HEATING	9.01	9.01	(100%)
				TOTAL LOAD		36.4	
				BALANCED 3-PHASE LOAD		101 A	
				PHASE A		108%	
				PHASE B		72.7%	
				PHASE C		120%	

PARAMOUNT WORKS
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CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

No.	Issuances / Revisions / Submissions	Date
	PRICING/PERMIT ISSUANCE	02.23.2024

PR-10535
ENGINEERED BUILDING SYSTEMS INC.
Shared Success Through Collaboration and Efficiency
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MEP Consulting Services, Inc. in OH

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Drawing Title
ELECTRICAL DETAILS
TI OFFICE PLANS

Document No.
TI-E300

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MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY)

BUILDING HAS (65) APARTMENTS. INSTALL (65) ELECTRIC SPLIT SYSTEMS, DUCTWORK AND ALL ASSOCIATED HVAC COMPONENTS TO MAKE EACH APARTMENT A TURNKEY. SOUTH COMMERCIAL RETAIL SPACE WILL BE WHITE BOX SHELL SPACE. PROVIDE DUCTWORK FOR GREASE EXHAUST AND MAKE UP AIR FOR POTENTIAL RESTAURANT FITOUT. NORTH COMMERCIAL SPACE WILL HAVE SPLIT SYSTEMS FOR WHITE BOX FITOUT. MECHANICAL CONTRACTOR SHALL REFERENCE ALL DISCIPLINE DRAWING, ETC. TO REVEAL FULL SCOPE OF WORK. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.

CODES & STANDARDS REFERENCED

- 2017 OHIO MECHANICAL CODE
- 2017 OHIO BUILDING CODE
- ASHRAE 90.1-2010 GOLD

HVAC DESIGN CONDITIONS

COOLING	HEATING
OUTDOOR: 93 DB / 75 WB	OUTDOOR: 0 DB
INDOOR: 72	INDOOR: 70

KEYED SHEET NOTES

1. INSTALL CEILING RADIATION DAMPER. PROVIDE BUTTERFLY DAMPER IN DIFFUSER AND FACE DAMPERS FOR CEILING REGISTERS.
2. ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL CLOSET. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. COORDINATE FLOOR DRAIN LOCATION WITH PLUMBING CONTRACTOR.
3. ROUTE EXHAUST DUCT IN FLOOR JOIST AND OVER TO EXTERIOR WALL. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
   - 3.1. 3' FROM PROPERTY LINE.
   - 3.2. 3' FROM OPERABLE OPENINGS INTO BUILDING.
   - 3.3. 10' FROM MECHANICAL AIR INTAKE
4. ROUTE LINE SET AND CONTROL WIRING FROM INDOOR AIR HANDLER TO OUTDOOR UNIT. ALL PIPING SHALL BE CONCEALED IN FINISHED AREA. PROVIDE EZ PULL LINE SET. SIZE PER MANUFACTURES RECOMMENDATIONS. PROVIDE SEAL TIGHT FOR CONTROL WIRING TO HP. CONTROL WIRING NOT TO BE EXPOSED TO ELEMENTS.
5. ROUTE KITCHEN EXHAUST DUCT IN SOFFIT BELOW RATED CEILING TO EXTERIOR WALL. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
   - 5.1. 3' FROM PROPERTY LINE.
   - 5.2. 3' FROM OPERABLE OPENINGS INTO BUILDING
   - 5.3. 10' FROM MECHANICAL AIR INTAKE.
6. UNDERCUT DOOR 1".
7. RUN LINESETS AND CONTROL WIRING IN WALL CAVITY UP TO CURB ON ROOF. STUB LINESETS OUT OF WALL/FLOOR/CURB FOR FUTURE ADD.
8. INSTALL DRYER BOX EQUIVALENT TO DUNDAS JOFINE DRB4XZW.
9. INSTALL RETURN GRILLE ABOVE MECHANICAL CLOSET DOOR. PROVIDE SLEEVE THROUGH WALL TO MOUNT RETURN GRILLE.
10. INSTALL RETURN GRILLE HIGH ON SIDE WALL. COORDINATE FINAL LOCATION WITH OWNER/ARCHITECT.
11. EXHAUST FAN TO BE CONTROLLED BY SWITCH ON WALL.
12. PROVIDE 1HR FIRE DAMPER IN RATED WALL.
13. PROVIDE 16"X16" WELDED GREASE DUCT FOR EXHAUST AND 20"X18" MAKE UP AIR DUCT IN SHAFT FOR FUTURE RESTAURANT. FOLLOW 2017 OHIO MECHANICAL CODE SECTION 506 COMMERCIAL KITCHEN HOOD VENTILATION SYSTEM DUCTS AND EXHAUST EQUIPMENT. EXHAUST DUCT TO BE FIRE WRAPPED AND OUTSIDE AIR DUCT TO BE EXTERNALLY INSULATED.
14. PROVIDE 18"X16" SUPPLY AND 18"X16" RETURN DUCT IN SHAFT FOR FUTURE ROOF TOP UNIT. INSULATE BOTH SUPPLY AND RETURN IN SHAFT. ROUTE DUCT UP SHAFT AND INTO ATTIC. CAP DUCT ONCE IN ATTIC. FUTURE TENANT WILL CONNECT TO DUCT IN ATTIC ONCE FITOUT STARTS. EXTEND SUPPLY AND RETURN THROUGH SHAFT IN TENANT SPACE FOR FUTURE CONNECTION.
15. PROVIDE 24V MOTORIZED DAMPER. TIE MOTORIZED DAMPER IN WITH AIR HANDLER. HANDLER TO SEND 24V WHEN UNIT IS OPERATING.
16. PROVIDE THY CURBS FOR HEAT PUMPS. HEAT PUMPS CAN BE COMBINED ON A SET OF THY CURBS CLOSE TO REFRIGERANT CURB TO REDUCE AMOUNT OF CURBS AND FLASHING ON ROOF. COORDINATE WITH GENERAL CONTRACTOR.

GENERAL NOTES

A. FOR FULL SCHEDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL SHEETS.

B. COORDINATE ROUTING OF ALL WORK WITH OTHER TRADES.

C. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS TO ALL MECHANICAL EQUIPMENT.

D. INSTALL ALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL CODE RECOMMENDED CLEARANCES FOR ACCESS AND MAINTENANCE.

E. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, AND FINAL CEILING DIFFUSER LOCATIONS.

F. MAINTAIN ALL CODE REQUIRED SERVICE CLEARANCES. FOLLOW CLEARANCE TO COMBUSTIBLE DISTANCE PER MANUFACTURER'S INSTRUCTIONS.

G. PROVIDE BACK DRAFT DAMPERS FOR ALL EXHAUST AND OUTSIDE AIR SYSTEMS AND EITHER LOUVER, BRICK VENT, OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS. COORDINATE COLOR AND LOCATION WITH OWNER/ARCHTECT PRIOR TO INSTALLATION.

H. PROVIDE OVERFLOW SWITCH FOR ALL UNITS IN APARTMENTS, WHICH WILL SHUTOFF THE UNIT ON HIGH WATER LEVEL.

I. IN DWELLING UNITS, ROUTE ALL SUPPLY ABOVE RATED CEILING. PROVIDE RADIATION DAMPERS FOR ALL SUPPLY DUCT PENETRATING RATED CEILING. COORDINATE ROUTING WITH ARCHITECTURAL DRAWINGS. KITCHEN EXHAUST DUCTS SHALL BE RUN BELOW THE RATED FLOOR/CEILING.

J. ROUTE ALL AIR CONDITIONER CONDENSATE TO FLOOR DRAIN IN MECHANICAL CLOSET. PROVIDE MINIMUM SLOPE OF 1/8 " PER FOOT. SIZE CONDENSATE PER SECTION 307.2.2 OF THE OHIO MECHANICAL CODE.

K. MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN ADA UNITS 40" ABOVE FINISHED FLOOR.

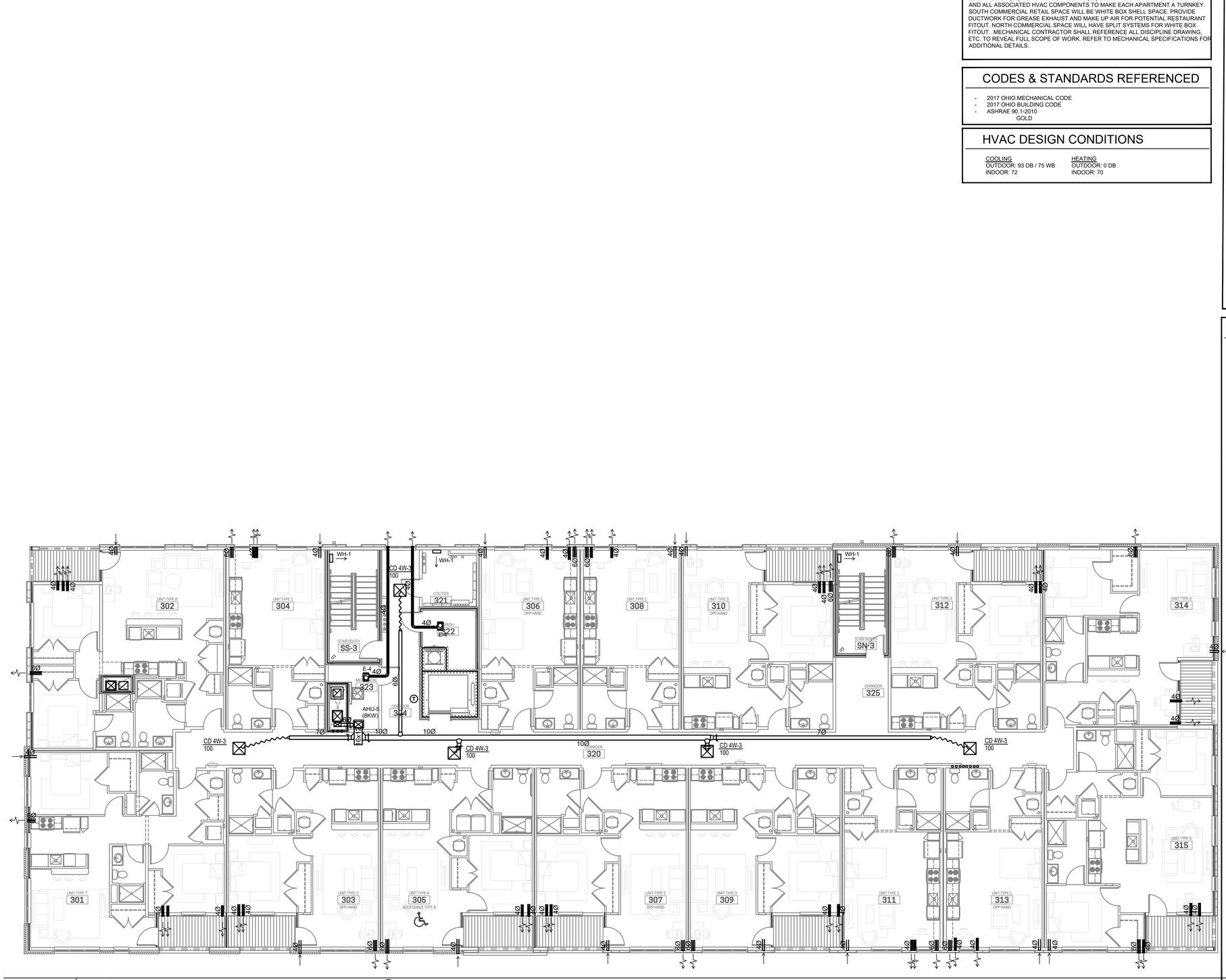
H. PROVIDE AN APPROVED THROUGH PENETRATION FIRESTOP FOR ALL PIPING INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479. FIRESTOP SHALL HAVE A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCHES OF WATER AND SHALL HAVE AN F RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL OR FLOOR PENETRATED.

I. ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE ALL NEW ELECTRICAL AND PLUMBING REQUIREMENTS WITH THE ELECTRICAL AND PLUMBING CONTRACTORS.

J. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABLED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.

J. THE FOLLOWING GUIDELINES MUST BE FOLLOWED FOR THE DOMESTIC DRYER EXHAUST SYSTEMS.
- J.A. EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE CONSTRUCTED OF METAL A MINIMUM OF 28 GAGE.
- J.B. DUCT SIZE SHALL BE 4 INCHES NOMINAL DIAMETER.
- J.C. DUCTS SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING DUCT OR FITTING IN THE DIRECTION OF AIRFLOW.
- J.D. DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT PROTRUDE MORE THAN ½ INCH INTO THE INSIDE OF THE DUCT.
- J.E. PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES DRYER EXHAUST DUCT.SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER. SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062 INCHES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES.
- J.F. TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER THAN 8 FEET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN CONSTRUCTION.
- J.G. PROVIDE DRYER WALL BOX EQUAL TO DUNDAS JAFINE MODEL DRB4XZW NEAR DRYER. CAP EXHAUST DUCT AT DRYER WALL BOX FOR FUTURE CONNECTION BY XXX.
- J.H. PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) INDICATING ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH SHALL INCLUDE 5' FOR 90 . LABEL/TAG MUST BE WITHIN 6" OF DRYER EXHAUST CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH SHALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5 FEET FOR A RADIUS MITERED 90-DEGREE ELBOW.
- J.I. CAP EXHAUST DUCT FOR FUTURE CONNECTION BY TENANT?

K. INDOOR TEMPERATURES SHALL BE CONTROLLED THROUGH THERMOSTAT.



M102 **MECHANICAL THIRD FLOOR PLAN**

1/8"=1'-0"

PARAMOUNT WORKS

NWC KEMPER LANE & E. McMILLAN ST
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CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

No.	Issuances / Revisions / Submissions	Date
	PRICING/PERMIT ISSUANCE	02.23.2024

PR-10535

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STATE OF OHIO
SCOTT SEVERT STILKEY
E-77755
REGISTERED PROFESSIONAL ENGINEER

Drawing Title
MECHANICAL THIRD FLOOR PLAN

Document No.
M102

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MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY)

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CODES & STANDARDS REFERENCED

- 2017 OHIO MECHANICAL CODE
- 2017 OHIO BUILDING CODE
- ASHRAE 90.1-2010 GOLD

HVAC DESIGN CONDITIONS

COOLING	HEATING
OUTDOOR: 93 DB / 75 WB	OUTDOOR: 0 DB
INDOOR: 72	INDOOR: 70

KEYED SHEET NOTES

1. INSTALL CEILING RADIATION DAMPER. PROVIDE BUTTERFLY DAMPER IN DIFFUSER AND FACE DAMPERS FOR CEILING REGISTERS.
2. ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL CLOSET. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. COORDINATE FLOOR DRAIN LOCATION WITH PLUMBING CONTRACTOR.
3. ROUTE EXHAUST DUCT IN FLOOR JOIST AND OVER TO EXTERIOR WALL. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
   - 3.1. 3' FROM PROPERTY LINE.
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   - 3.3. 10' FROM MECHANICAL AIR INTAKE
4. ROUTE LINE SET AND CONTROL WIRING FROM INDOOR AIR HANDLER TO OUTDOOR UNIT. ALL PIPING SHALL BE CONCEALED IN FINISHED AREA. PROVIDE EZ PULL LINE SET. SIZE PER MANUFACTURES RECOMMENDATIONS. PROVIDE SEAL TIGHT FOR CONTROL WIRING TO HP. CONTROL WIRING NOT TO BE EXPOSED TO ELEMENTS.
5. ROUTE KITCHEN EXHAUST DUCT IN SOFFIT BELOW RATED CEILING TO EXTERIOR WALL. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
   - 5.1. 3' FROM PROPERTY LINE.
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   - 5.3. 10' FROM MECHANICAL AIR INTAKE.
6. UNDERCUT DOOR 1".
7. RUN LINESETS AND CONTROL WIRING IN WALL CAVITY UP TO CURB ON ROOF. STUB LINESETS OUT OF WALL/FLOOR/CURB FOR FUTURE ADD.
8. INSTALL DRYER BOX EQUIVALENT TO DUNDAS JOFINE DRB4XZW.
9. INSTALL RETURN GRILLE ABOVE MECHANICAL CLOSET DOOR. PROVIDE SLEEVE THROUGH WALL TO MOUNT RETURN GRILLE.
10. INSTALL RETURN GRILLE HIGH ON SIDE WALL. COORDINATE FINAL LOCATION WITH OWNER/ARCHITECT.
11. EXHAUST FAN TO BE CONTROLLED BY SWITCH ON WALL.
12. PROVIDE 1HR FIRE DAMPER IN RATED WALL.
13. PROVIDE 16"X16" WELDED GREASE DUCT FOR EXHAUST AND 20"X18" MAKE UP AIR DUCT IN SHAFT FOR FUTURE RESTAURANT. FOLLOW 2017 OHIO MECHANICAL CODE SECTION 506 COMMERCIAL KITCHEN HOOD VENTILATION SYSTEM DUCTS AND EXHAUST EQUIPMENT. EXHAUST DUCT TO BE FIRE WRAPPED AND OUTSIDE AIR DUCT TO BE EXTERNALLY INSULATED.
14. PROVIDE 18"X16" SUPPLY AND 18"X16" RETURN DUCT IN SHAFT FOR FUTURE ROOF TOP UNIT. INSULATE BOTH SUPPLY AND RETURN IN SHAFT. ROUTE DUCT UP SHAFT AND INTO ATTIC. CAP DUCT ONCE IN ATTIC. FUTURE TENANT WILL CONNECT TO DUCT IN ATTIC ONCE FITOUT STARTS. EXTEND SUPPLY AND RETURN THROUGH SHAFT IN TENANT SPACE FOR FUTURE CONNECTION.
15. PROVIDE 24V MOTORIZED DAMPER. TIE MOTORIZED DAMPER IN WITH AIR HANDLER. HANDLER TO SEND 24V WHEN UNIT IS OPERATING.
16. PROVIDE THY CURBS FOR HEAT PUMPS. HEAT PUMPS CAN BE COMBINED ON A SET OF THY CURBS CLOSE TO REFRIGERANT CURB TO REDUCE AMOUNT OF CURBS AND FLASHING ON ROOF. COORDINATE WITH GENERAL CONTRACTOR.

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I. IN DWELLING UNITS, ROUTE ALL SUPPLY ABOVE RATED CEILING. PROVIDE RADIATION DAMPERS FOR ALL SUPPLY DUCT PENETRATING RATED CEILING. COORDINATE ROUTING WITH ARCHITECTURAL DRAWINGS. KITCHEN EXHAUST DUCTS SHALL BE RUN BELOW THE RATED FLOOR/CEILING.

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K. MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN ADA UNITS 40" ABOVE FINISHED FLOOR.

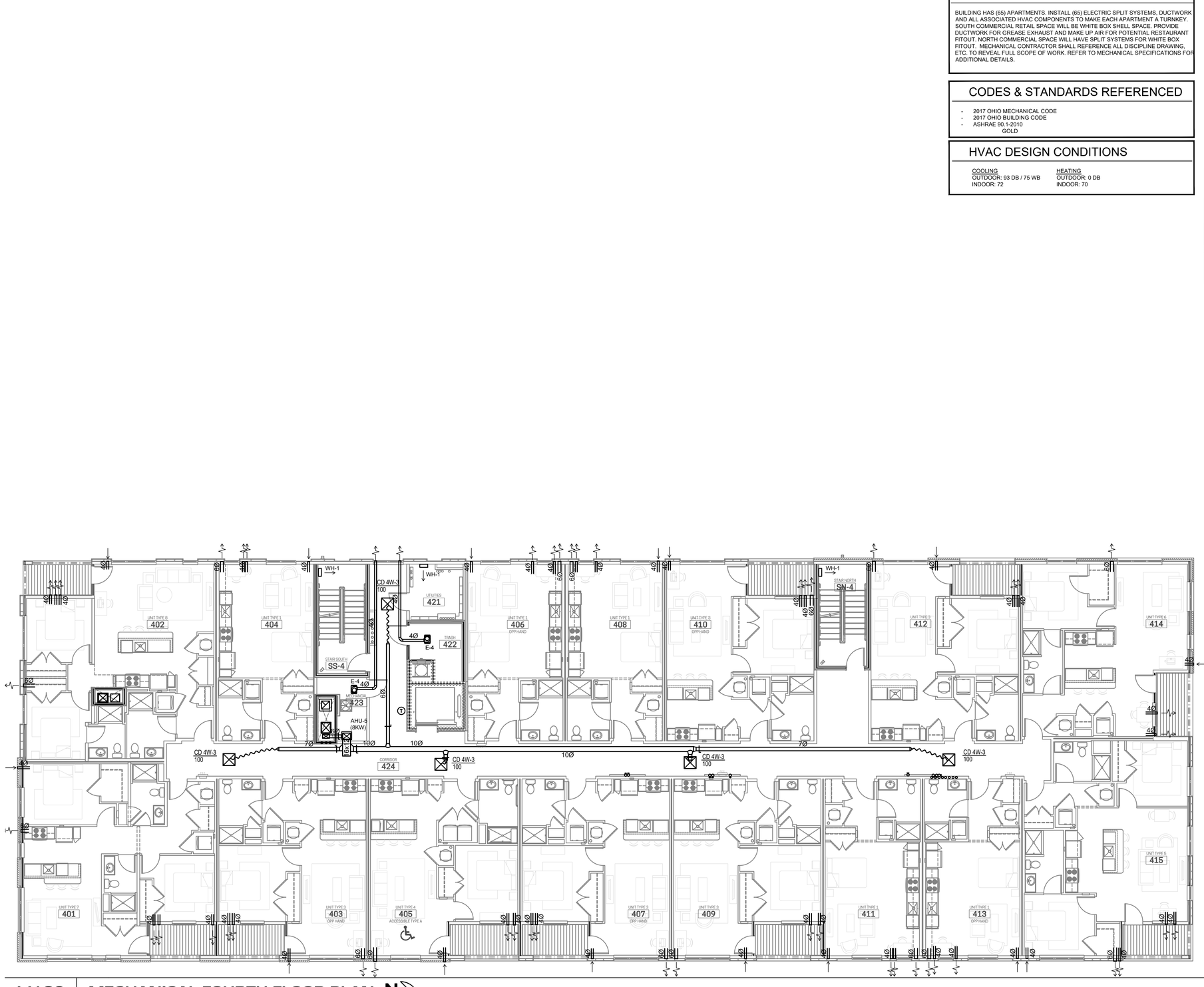
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I. ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE ALL NEW ELECTRICAL AND PLUMBING REQUIREMENTS WITH THE ELECTRICAL AND PLUMBING CONTRACTORS.

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- J.F. TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER THAN 8 FEET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN CONSTRUCTION.
- J.G. PROVIDE DRYER WALL BOX EQUAL TO DUNDAS JAFINE MODEL DRB4XZW NEAR DRYER. CAP EXHAUST DUCT AT DRYER WALL BOX FOR FUTURE CONNECTION BY XXX.
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K. INDOOR TEMPERATURES SHALL BE CONTROLLED THROUGH THERMOSTAT.



M103 MECHANICAL FOURTH FLOOR PLAN

1/8"=1'-0"

N

PARAMOUNT WORKS

NWC KEMPER LANE & E. McMILLAN ST
2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

No.	Issuances / Revisions / Submissions	Date
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PR-10535

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Shared Success Through Collaboration and Efficiency
515 Monmouth Street, Suite 201
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH
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STATE OF OHIO
SCOTT SEVERT STILKEY
E-77755
REGISTERED PROFESSIONAL ENGINEER

Drawing Title
MECHANICAL FOURTH FLOOR PLAN

Document No.
M103

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THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREPARED TO DEMONSTRATE COMPLIANCE WITH APPLICABLE CODES, AND ARE INTENDED TO PROVIDE THE AUTHORITIES HAVING JURISDICTION WITH INFORMATION TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS USED IN CONSTRUCTION ARE INSTALLED IN ACCORDANCE WITH ANY CONTRACTURAL AGREEMENT THAT MAY EXIST WITH AN OWNER, CONSTRUCTION MANAGER, GENERAL CONTRACTOR, ETC.
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CODES & STANDARDS REFERENCED

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- 2017 OHIO BUILDING CODE
- ASHRAE 90.1-2010 GOLD

HVAC DESIGN CONDITIONS

COOLING	HEATING
OUTDOOR: 93 DB / 75 WB	OUTDOOR: 0 DB
INDOOR: 72	INDOOR: 70

KEYED SHEET NOTES

1. INSTALL CEILING RADIATION DAMPER. PROVIDE BUTTERFLY DAMPER IN DIFFUSER AND FACE DAMPERS FOR CEILING REGISTERS.
2. ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL CLOSET. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. COORDINATE FLOOR DRAIN LOCATION WITH PLUMBING CONTRACTOR.
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4. ROUTE LINE SET AND CONTROL WIRING FROM INDOOR AIR HANDLER TO OUTDOOR UNIT. ALL PIPING SHALL BE CONCEALED IN FINISHED AREA. PROVIDE EZ PULL LINE SET. SIZE PER MANUFACTURES RECOMMENDATIONS. PROVIDE SEAL TIGHT FOR CONTROL WIRING TO HP. CONTROL WIRING NOT TO BE EXPOSED TO ELEMENTS.
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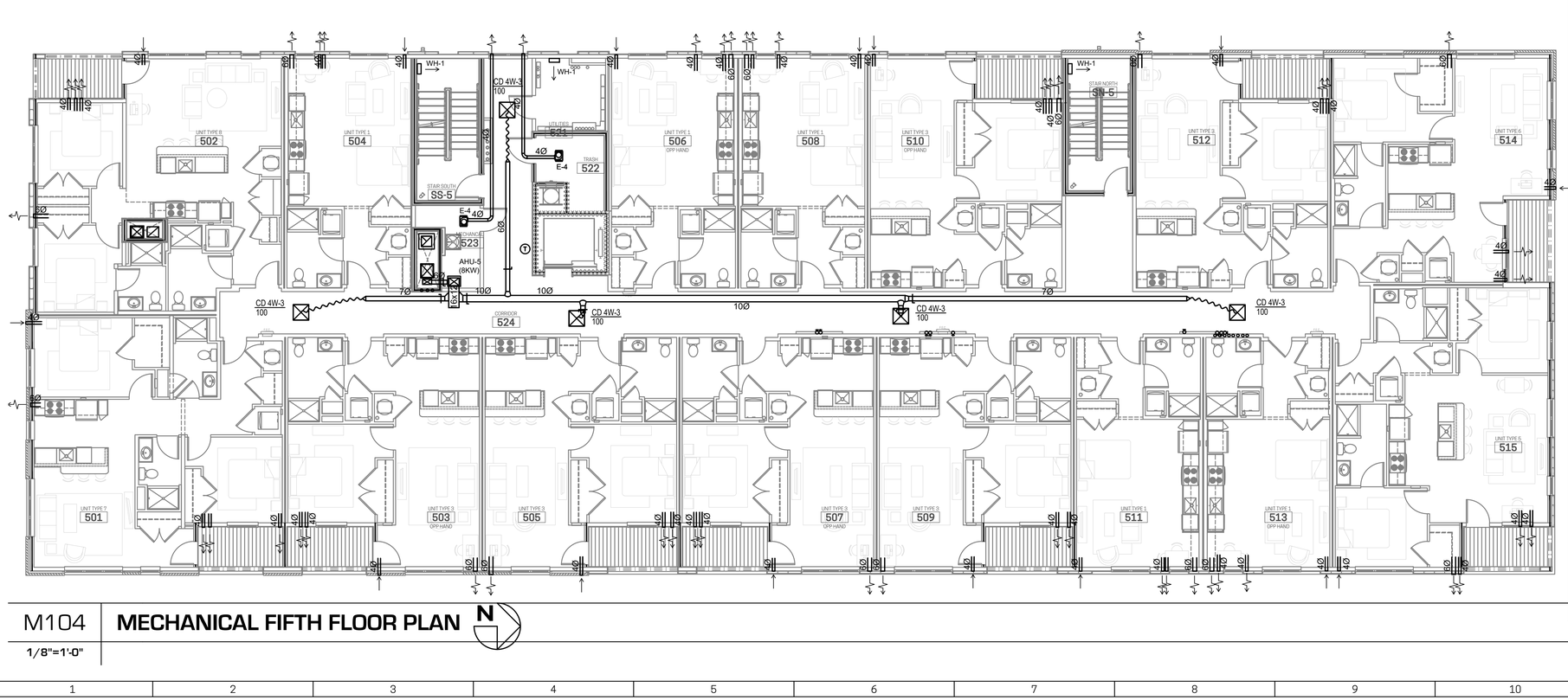
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M104 MECHANICAL FIFTH FLOOR PLAN

1/8"=1'-0"

N

PARAMOUNT WORKS

NWC KEMPER LANE & E. McMILLAN ST
2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

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PR-10535

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Shared Success Through Collaboration and Efficiency
515 Monmouth Street, Suite 201
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH
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STATE OF OHIO
SCOTT SEVERT STILKEY
E-77755
REGISTERED PROFESSIONAL ENGINEER

Drawing Title
MECHANICAL FIFTH FLOOR PLAN

Document No.
M104

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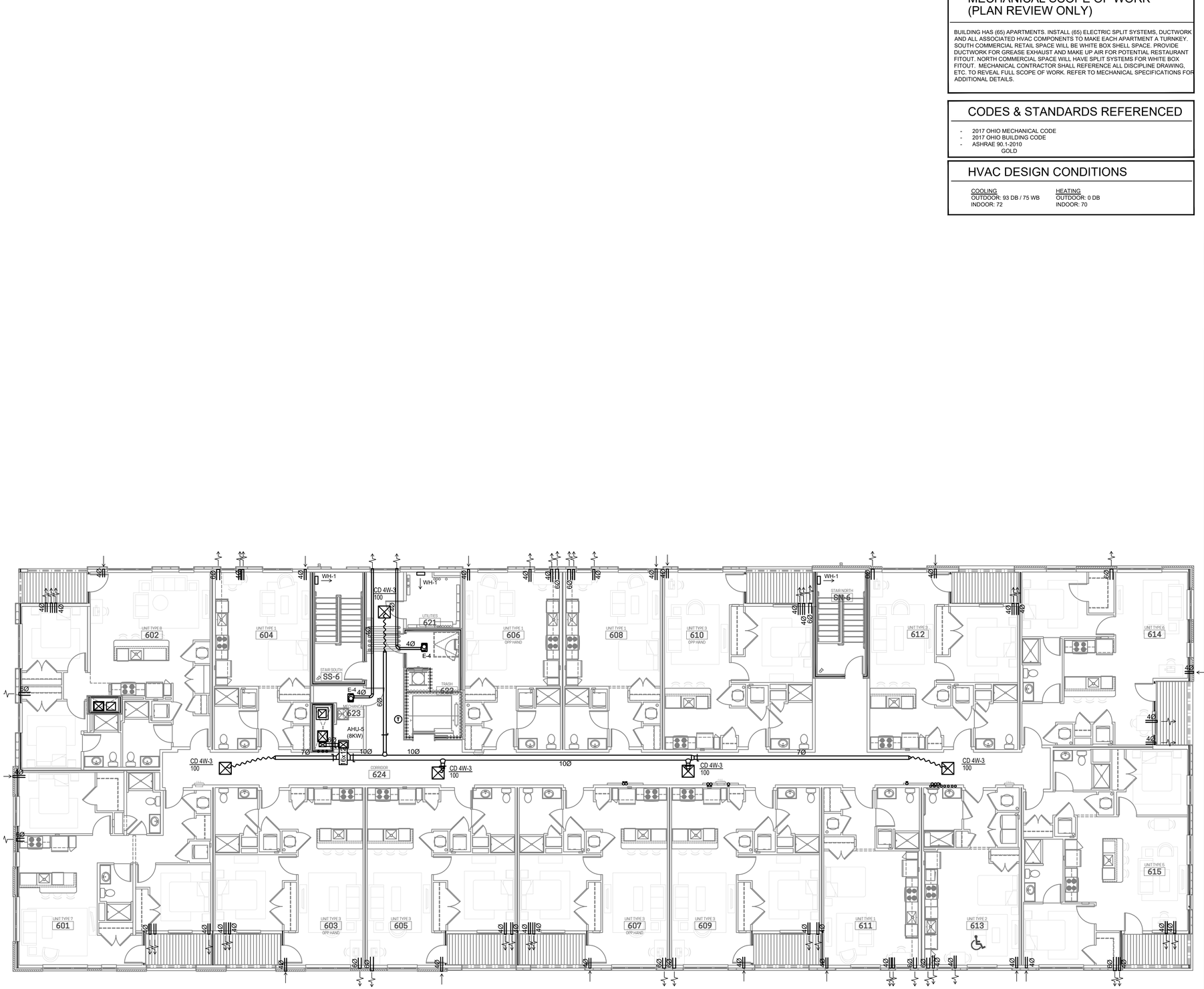
H. PROVIDE AN APPROVED THROUGH PENETRATION FIRESTOP FOR ALL PIPING INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479. FIRESTOP SHALL HAVE A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCHES OF WATER AND SHALL HAVE AN F RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL OR FLOOR PENETRATED.

I. ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE ALL NEW ELECTRICAL AND PLUMBING REQUIREMENTS WITH THE ELECTRICAL AND PLUMBING CONTRACTORS.

J. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABLED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.

J. THE FOLLOWING GUIDELINES MUST BE FOLLOWED FOR THE DOMESTIC DRYER EXHAUST SYSTEMS.
   - J.A. EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE CONSTRUCTED OF METAL A MINIMUM OF 28 GAGE.
   - J.B. DUCT SIZE SHALL BE 4 INCHES NOMINAL DIAMETER.
   - J.C. DUCTS SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING DUCT OR FITTING IN THE DIRECTION OF AIRFLOW.
   - J.D. DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT PROTRUDE MORE THAN $\frac{1}{8}$ INCH INTO THE INSIDE OF THE DUCT.
   - J.E. PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES DRYER EXHAUST DUCT.SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER. SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062 INCHES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES.
   - J.F. TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER THAN 8 FEET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN CONSTRUCTION.
   - J.G. PROVIDE DRYER WALL BOX EQUAL TO DUNDAS JAFINE MODEL DRB4XZW NEAR DRYER. CAP EXHAUST DUCT AT DRYER WALL BOX FOR FUTURE CONNECTION BY XXX.
   - J.H. PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) INDICATING ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH SHALL INCLUDE 5' FOR 90 . LABEL/TAG MUST BE WITHIN 6' OF DRYER EXHAUST CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH SHALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5 FEET FOR A RADIUS MITERED 90-DEGREE ELBOW.
   - J.I. CAP EXHAUST DUCT FOR FUTURE CONNECTION BY TENANT?

K. INDOOR TEMPERATURES SHALL BE CONTROLLED THROUGH THERMOSTAT.



M105 **MECHANICAL SIXTH FLOOR PLAN** N

1/8"=1'-0"

PARAMOUNT WORKS

NWC KEMPER LANE & E. McMILLAN ST
2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

No.	Issuances / Revisions / Submissions	Date
	PRICING/PERMIT ISSUANCE	02.22.2028

PR-10535

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Shared Success Through Collaboration and Efficiency
515 Monmouth Street, Suite 201
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH
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STATE OF OHIO
SCOTT SEVERT STILKEY
E-77795
REGISTERED PROFESSIONAL ENGINEER

Drawing Title
MECHANICAL SIXTH FLOOR PLAN

Document No.
M105

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PLOTTED: Thursday, February 22, 2024 5:42:12 PM

MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY)

BUILDING HAS (65) APARTMENTS. INSTALL (65) ELECTRIC SPLIT SYSTEMS, DUCTWORK AND ALL ASSOCIATED HVAC COMPONENTS TO MAKE EACH APARTMENT A TURNKEY. SOUTH COMMERCIAL RETAIL SPACE WILL BE WHITE BOX SHELL SPACE. PROVIDE DUCTWORK FOR GREASE EXHAUST AND MAKE UP AIR FOR POTENTIAL RESTAURANT FITOUT. NORTH COMMERCIAL SPACE WILL HAVE SPLIT SYSTEMS FOR WHITE BOX FITOUT. MECHANICAL CONTRACTOR SHALL REFERENCE ALL DISCIPLINE DRAWING, ETC. TO REVEAL FULL SCOPE OF WORK. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.

CODES & STANDARDS REFERENCED

- 2017 OHIO MECHANICAL CODE
- 2017 OHIO BUILDING CODE
- ASHRAE 90.1-2010 GOLD

HVAC DESIGN CONDITIONS

COOLING	HEATING
OUTDOOR: 93 DB / 75 WB	OUTDOOR: 0 DB
INDOOR: 72	INDOOR: 70

KEYED SHEET NOTES

1. INSTALL CEILING RADIATION DAMPER. PROVIDE BUTTERFLY DAMPER IN DIFFUSER AND FACE DAMPERS FOR CEILING REGISTERS.
2. ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL CLOSET. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. COORDINATE FLOOR DRAIN LOCATION WITH PLUMBING CONTRACTOR.
3. ROUTE EXHAUST DUCT IN FLOOR JOIST AND OVER TO EXTERIOR WALL. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
   - 3.1. 3' FROM PROPERTY LINE.
   - 3.2. 3' FROM OPERABLE OPENINGS INTO BUILDING.
   - 3.3. 10' FROM MECHANICAL AIR INTAKE
4. ROUTE LINE SET AND CONTROL WIRING FROM INDOOR AIR HANDLER TO OUTDOOR UNIT. ALL PIPING SHALL BE CONCEALED IN FINISHED AREA. PROVIDE EZ PULL LINE SET. SIZE PER MANUFACTURES RECOMMENDATIONS. PROVIDE SEAL TIGHT FOR CONTROL WIRING TO HP. CONTROL WIRING NOT TO BE EXPOSED TO ELEMENTS.
5. ROUTE KITCHEN EXHAUST DUCT IN SOFFIT BELOW RATED CEILING TO EXTERIOR WALL. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
   - 5.1. 3' FROM PROPERTY LINE.
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6. UNDERCUT DOOR 1".
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15. PROVIDE 24V MOTORIZED DAMPER. TIE MOTORIZED DAMPER IN WITH AIR HANDLER. HANDLER TO SEND 24V WHEN UNIT IS OPERATING.
16. PROVIDE THY CURBS FOR HEAT PUMPS. HEAT PUMPS CAN BE COMBINED ON A SET OF THY CURBS CLOSE TO REFRIGERANT CURB TO REDUCE AMOUNT OF CURBS AND FLASHING ON ROOF. COORDINATE WITH GENERAL CONTRACTOR.

GENERAL NOTES

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E. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, AND FINAL CEILING DIFFUSER LOCATIONS.

F. MAINTAIN ALL CODE REQUIRED SERVICE CLEARANCES. FOLLOW CLEARANCE TO COMBUSTIBLE DISTANCE PER MANUFACTURER'S INSTRUCTIONS.

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H. PROVIDE OVERFLOW SWITCH FOR ALL UNITS IN APARTMENTS, WHICH WILL SHUTOFF THE UNIT ON HIGH WATER LEVEL.

I. IN DWELLING UNITS, ROUTE ALL SUPPLY ABOVE RATED CEILING. PROVIDE RADIATION DAMPERS FOR ALL SUPPLY DUCT PENETRATING RATED CEILING. COORDINATE ROUTING WITH ARCHITECTURAL DRAWINGS. KITCHEN EXHAUST DUCTS SHALL BE RUN BELOW THE RATED FLOOR/CEILING.

J. ROUTE ALL AIR CONDITIONER CONDENSATE TO FLOOR DRAIN IN MECHANICAL CLOSET. PROVIDE MINIMUM SLOPE OF 1/8 " PER FOOT. SIZE CONDENSATE PER SECTION 307.2.2 OF THE OHIO MECHANICAL CODE.

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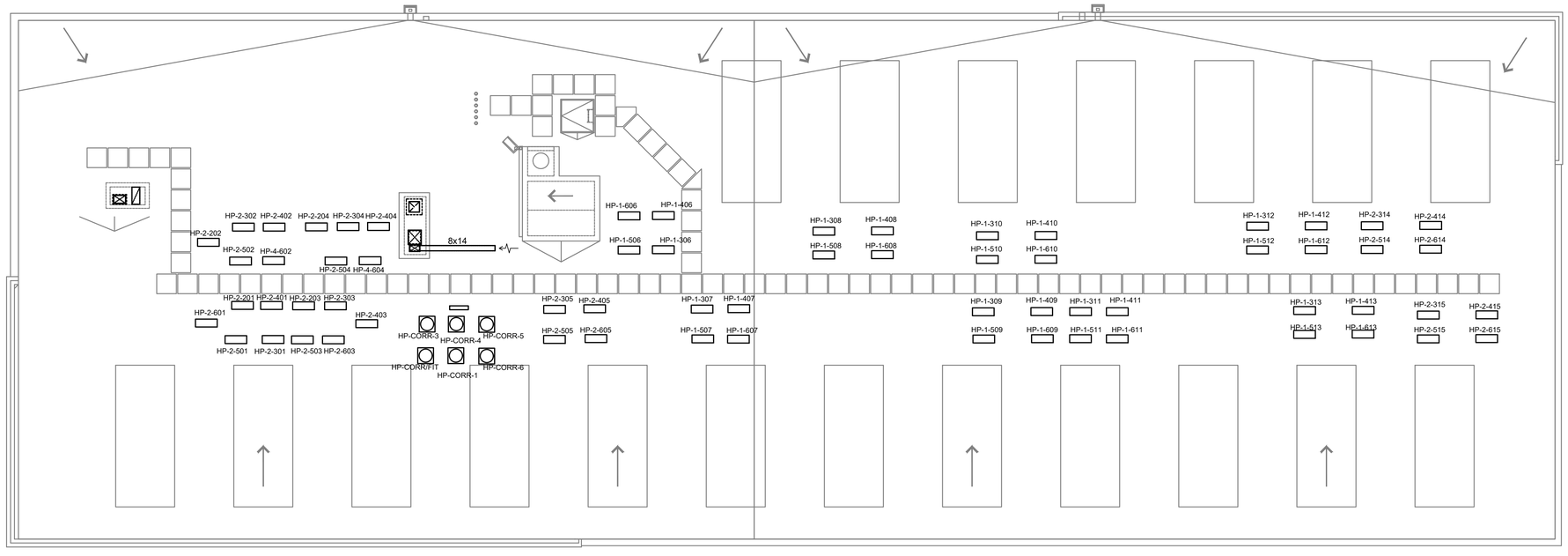
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   - J.D. DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT PROTRUDE MORE THAN ¼ INCH INTO THE INSIDE OF THE DUCT.
   - J.E. PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES DRYER EXHAUST DUCT.SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER. SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062 INCHES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES.
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   - J.H. PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) INDICATING ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH SHALL INCLUDE 5' FOR 90 . LABEL/TAG MUST BE WITHIN 6' OF DRYER EXHAUST CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH SHALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5 FEET FOR A RADIUS MITERED 90-DEGREE ELBOW.
   - J.I. CAP EXHAUST DUCT FOR FUTURE CONNECTION BY TENANT?

K. INDOOR TEMPERATURES SHALL BE CONTROLLED THROUGH THERMOSTAT.



M106 **MECHANICAL ROOF PLAN** N

1/8"=1'-0"

PARAMOUNT WORKS

NWC KEMPER LANE & E. McMILLAN ST
2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

COORDINATION CHANGES

No.	Issuances / Revisions / Submissions	Date
	PRICING/PERMIT ISSUANCE	02.23.2028

PR-10535

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Shared Success Through Collaboration and Efficiency
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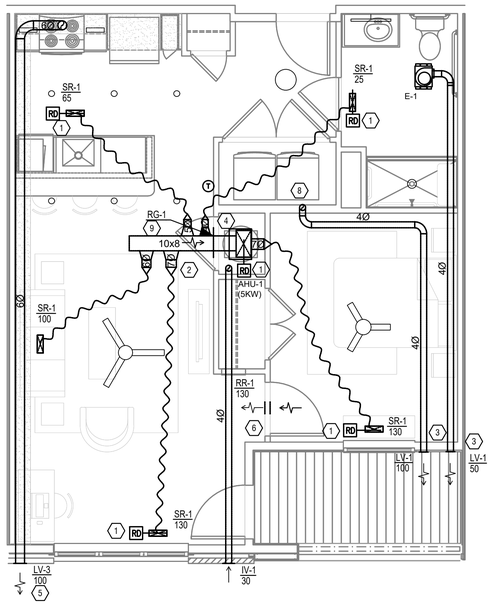
STATE OF OHIO
SCOTT SEVERT STILKEY
E-77755
REGISTERED PROFESSIONAL ENGINEER

Drawing Title
MECHANICAL ROOF PLAN

Document No.
M106

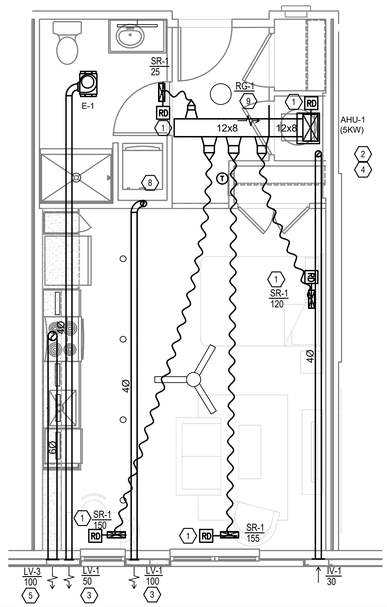
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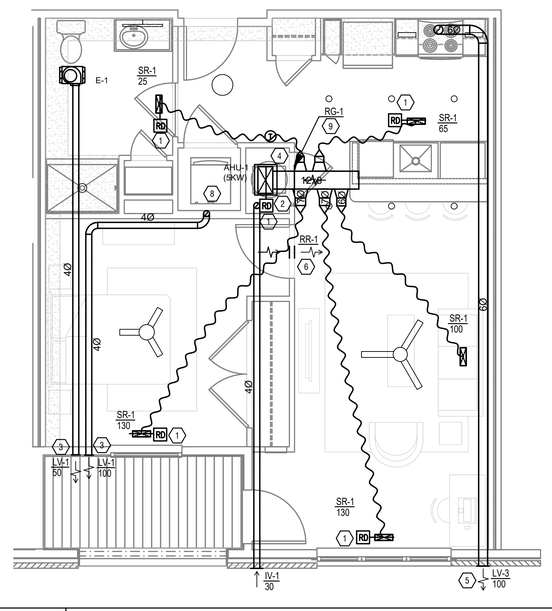
M4 ENLARGED PLAN - UNIT TYPE 4

1/4"=1'-0"



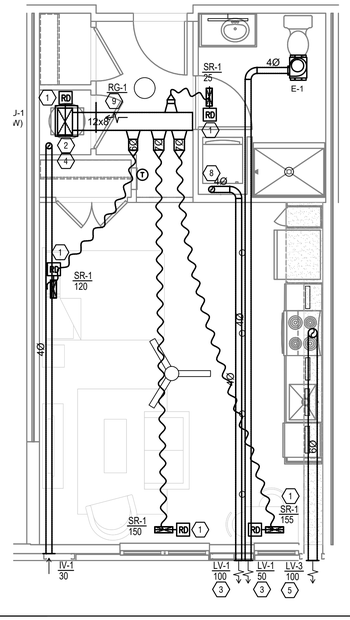
M2 ENLARGED PLAN - UNIT TYPE 2

1/4"=1'-0"



M3 ENLARGED PLAN - UNIT TYPE 3

1/4"=1'-0"



M1 ENLARGED PLAN - UNIT TYPE 1

1/4"=1'-0"

MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY)

BUILDING HAS (65) APARTMENTS. INSTALL (65) ELECTRIC SPLIT SYSTEMS, DUCTWORK AND ALL ASSOCIATED HVAC COMPONENTS TO MAKE EACH APARTMENT A TURNKEY. SOUTH COMMERCIAL RETAIL SPACE WILL BE WHITE BOX SHELL SPACE. PROVIDE DUCTWORK FOR GREASE EXHAUST AND MAKE UP AIR FOR POTENTIAL RESTAURANT FITOUT. NORTH COMMERCIAL SPACE WILL HAVE SPLIT SYSTEMS FOR WHITE BOX FITOUT. MECHANICAL CONTRACTOR SHALL REFERENCE ALL DISCIPLINE DRAWING, ETC. TO REVEAL FULL SCOPE OF WORK. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.

CODES & STANDARDS REFERENCED

- 2017 OHIO MECHANICAL CODE
- 2017 OHIO BUILDING CODE
- ASHRAE 90.1-2010 GOLD

HVAC DESIGN CONDITIONS

COOLING	HEATING
OUTDOOR: 93 DB / 75 WB	OUTDOOR: 0 DB
INDOOR: 72	INDOOR: 70

KEYED SHEET NOTES

1. INSTALL CEILING RADIATION DAMPER. PROVIDE BUTTERFLY DAMPER IN DIFFUSER AND FACE DAMPERS FOR CEILING REGISTERS.
2. ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL CLOSET. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. COORDINATE FLOOR DRAIN LOCATION WITH PLUMBING CONTRACTOR.
3. ROUTE EXHAUST DUCT IN FLOOR JOIST AND OVER TO EXTERIOR WALL. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
   - 3.1. 3' FROM PROPERTY LINE.
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4. ROUTE LINE SET AND CONTROL WIRING FROM INDOOR AIR HANDLER TO OUTDOOR UNIT. ALL PIPING SHALL BE CONCEALED IN FINISHED AREA. PROVIDE EZ PULL LINE SET. SIZE PER MANUFACTURES RECOMMENDATIONS. PROVIDE SEAL TIGHT FOR CONTROL WIRING TO HP. CONTROL WIRING NOT TO BE EXPOSED TO ELEMENTS.
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14. PROVIDE 18"X16" SUPPLY AND 18"X16" RETURN DUCT IN SHAFT FOR FUTURE ROOF TOP UNIT. INSULATE BOTH SUPPLY AND RETURN IN SHAFT. ROUTE DUCT UP SHAFT AND INTO ATTIC. CAP DUCT ONCE IN ATTIC. FUTURE TENANT WILL CONNECT TO DUCT IN ATTIC ONCE FITOUT STARTS. EXTEND SUPPLY AND RETURN THROUGH SHAFT IN TENANT SPACE FOR FUTURE CONNECTION.
15. PROVIDE 24V MOTORIZED DAMPER. TIE MOTORIZED DAMPER IN WITH AIR HANDLER. HANDLER TO SEND 24V WHEN UNIT IS OPERATING.
16. PROVIDE THY CURBS FOR HEAT PUMPS. HEAT PUMPS CAN BE COMBINED ON A SET OF THY CURBS CLOSE TO REFRIGERANT CURB TO REDUCE AMOUNT OF CURBS AND FLASHING ON ROOF. COORDINATE WITH GENERAL CONTRACTOR.

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G. PROVIDE BACK DRAFT DAMPERS FOR ALL EXHAUST AND OUTSIDE AIR SYSTEMS AND EITHER LOUVER, BRICK VENT, OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS. COORDINATE COLOR AND LOCATION WITH OWNER/ARCHTECT PRIOR TO INSTALLATION.

H. PROVIDE OVERFLOW SWITCH FOR ALL UNITS IN APARTMENTS, WHICH WILL SHUTOFF THE UNIT ON HIGH WATER LEVEL.

I. IN DWELLING UNITS, ROUTE ALL SUPPLY ABOVE RATED CEILING. PROVIDE RADIATION DAMPERS FOR ALL SUPPLY DUCT PENETRATING RATED CEILING. COORDINATE ROUTING WITH ARCHITECTURAL DRAWINGS. KITCHEN EXHAUST DUCTS SHALL BE RUN BELOW THE RATED FLOOR/CEILING.

J. ROUTE ALL AIR CONDITIONER CONDENSATE TO FLOOR DRAIN IN MECHANICAL CLOSET. PROVIDE MINIMUM SLOPE OF 1/8 " PER FOOT. SIZE CONDENSATE PER SECTION 307.2.2 OF THE OHIO MECHANICAL CODE.

K. MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN ADA UNITS 40" ABOVE FINISHED FLOOR.

H. PROVIDE AN APPROVED THROUGH PENETRATION FIRESTOP FOR ALL PIPING INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479. FIRESTOP SHALL HAVE A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCHES OF WATER AND SHALL HAVE AN F RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL OR FLOOR PENETRATED.

I. ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE ALL NEW ELECTRICAL AND PLUMBING REQUIREMENTS WITH THE ELECTRICAL AND PLUMBING CONTRACTORS.

J. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABLED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.

J. THE FOLLOWING GUIDELINES MUST BE FOLLOWED FOR THE DOMESTIC DRYER EXHAUST SYSTEMS.
   - J.A. EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE CONSTRUCTED OF METAL A MINIMUM OF 28 GAGE.
   - J.B. DUCT SIZE SHALL BE 4 INCHES NOMINAL DIAMETER.
   - J.C. DUCTS SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING DUCT OR FITTING IN THE DIRECTION OF AIRFLOW.
   - J.D. DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT PROTRUDE MORE THAN ⅛ INCH INTO THE INSIDE OF THE DUCT.
   - J.E. PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES DRYER EXHAUST DUCT.SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER. SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062 INCHES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES.
   - J.F. TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER THAN 8 FEET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN CONSTRUCTION.
   - J.G. PROVIDE DRYER WALL BOX EQUAL TO DUNDAS JAFINE MODEL DRB4XZW NEAR DRYER. CAP EXHAUST DUCT AT DRYER WALL BOX FOR FUTURE CONNECTION BY XXX.
   - J.H. PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) INDICATING ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH SHALL INCLUDE 5' FOR 90 . LABEL/TAG MUST BE WITHIN 6' OF DRYER EXHAUST CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH SHALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5 FEET FOR A RADIUS MITERED 90-DEGREE ELBOW.
   - J.I. CAP EXHAUST DUCT FOR FUTURE CONNECTION BY TENANT?

K. INDOOR TEMPERATURES SHALL BE CONTROLLED THROUGH THERMOSTAT.

PARAMOUNT WORKS

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2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

No.	Issuances / Revisions / Submissions	Date
	PRICING/PERMIT ISSUANCE	02.23.2024

COORDINATION CHANGES

PR-10535

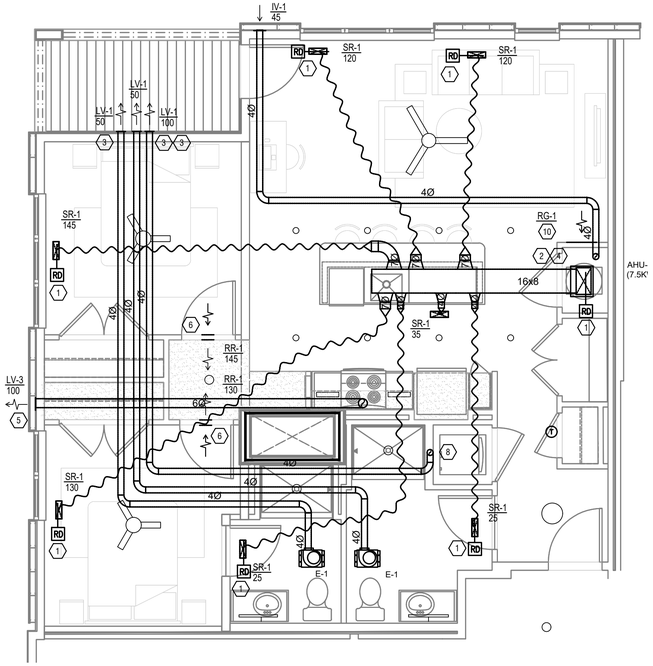
ENGINEERED BUILDING SYSTEMS INC.
Shared Success Through Collaboration and Efficiency
515 Monmouth Street, Suite 201
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH
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STATE OF OHIO
SCOTT SEVERT STILKEY
E-77795
REGISTERED PROFESSIONAL ENGINEER

Drawing Title
MECHANICAL ENLARGED PLANS

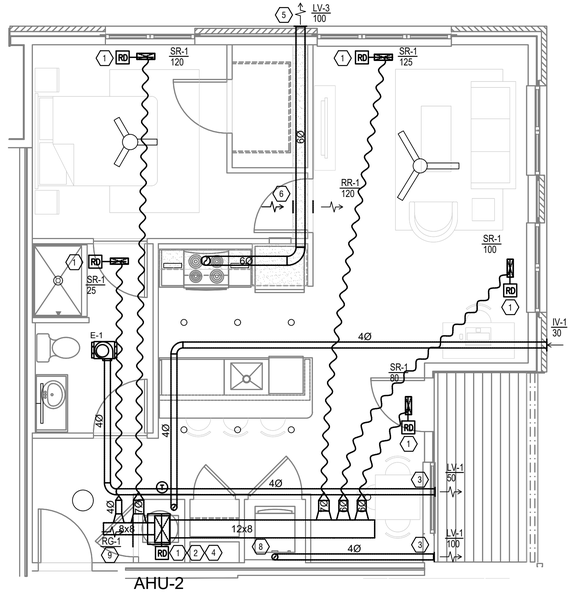
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M200

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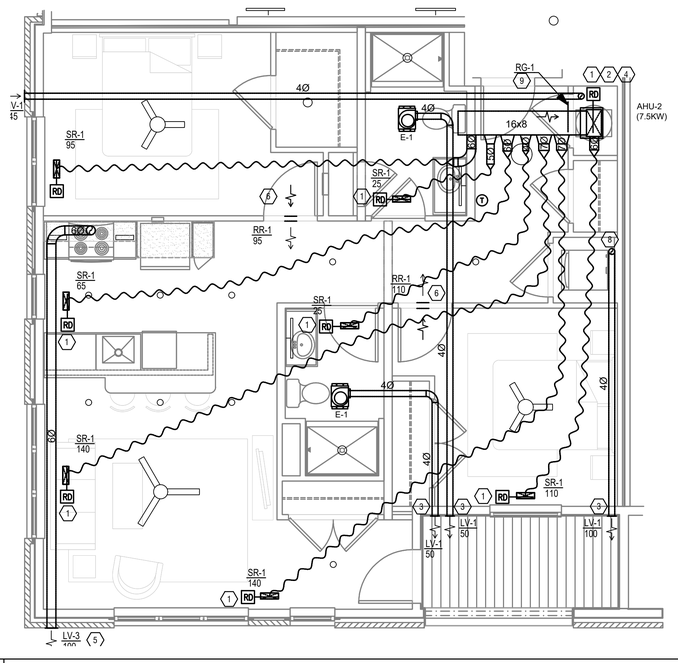
M8 ENLARGED PLAN - UNIT TYPE 8

1/4"=1'-0"



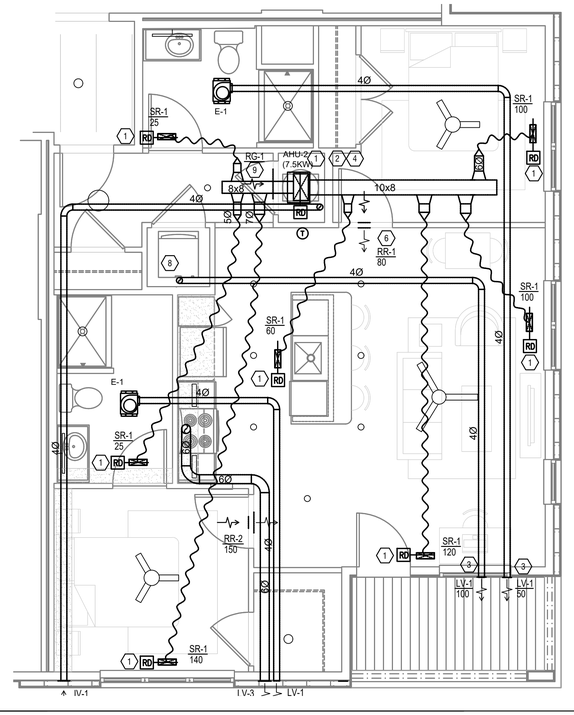
M6 ENLARGED PLAN - UNIT TYPE 6

1/4"=1'-0"



M7 ENLARGED PLAN - UNIT TYPE 7

1/4"=1'-0"



M5 ENLARGED PLAN - UNIT TYPE 5

1/4"=1'-0"

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1. INSTALL CEILING RADIATION DAMPER. PROVIDE BUTTERFLY DAMPER IN DIFFUSER AND FACE DAMPERS FOR CEILING REGISTERS.
2. ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL CLOSET. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. COORDINATE FLOOR DRAIN LOCATION WITH PLUMBING CONTRACTOR
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5. ROUTE KITCHEN EXHAUST DUCT IN SOFFIT BELOW RATED CEILING TO EXTERIOR WALL. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
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K. INDOOR TEMPERATURES SHALL BE CONTROLLED THROUGH THERMOSTAT.

PARAMOUNT WORKS

NWC KEMPER LANE & E. McMILLAN ST
2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

No.	Issuances / Revisions / Submissions	Date
	PRICING/PERMIT ISSUANCE	02.23.2024

COORDINATION CHANGES

PR-10535

ENGINEERED BUILDING SYSTEMS INC.
Shared Success Through Collaboration and Efficiency
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MEP Consulting Services, Inc. in OH

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STATE OF OHIO
SCOTT SEVERT STILKEY
E-77795
REGISTERED PROFESSIONAL ENGINEER

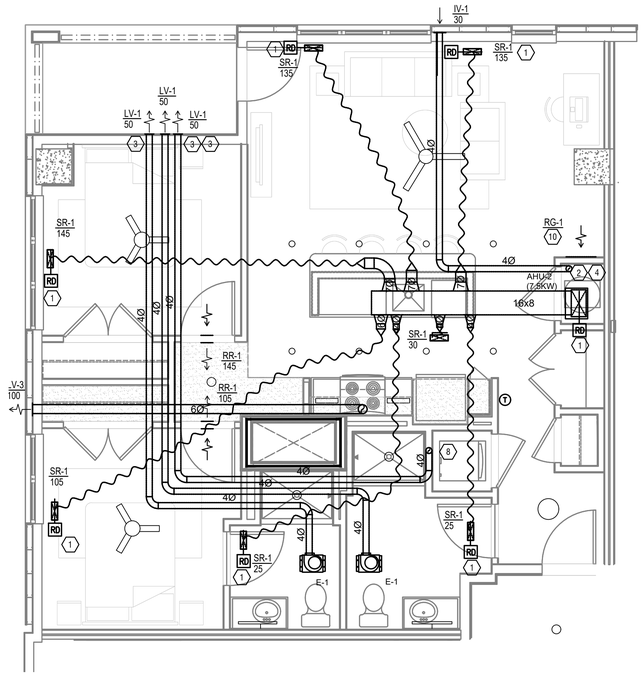
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MECHANICAL ENLARGED PLANS

Document No.
M201

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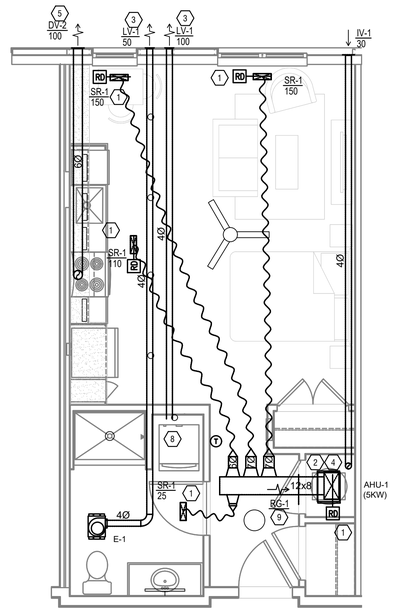
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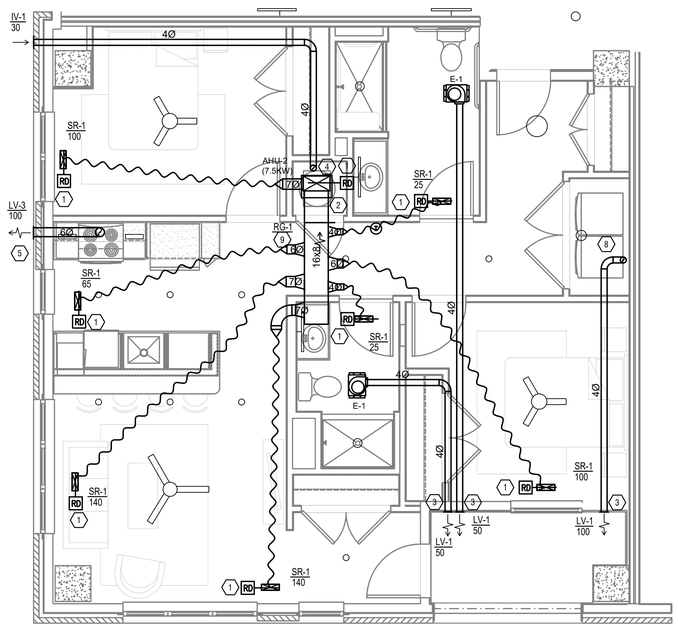
M12 **ENLARGED PLAN - UNIT TYPE 12**

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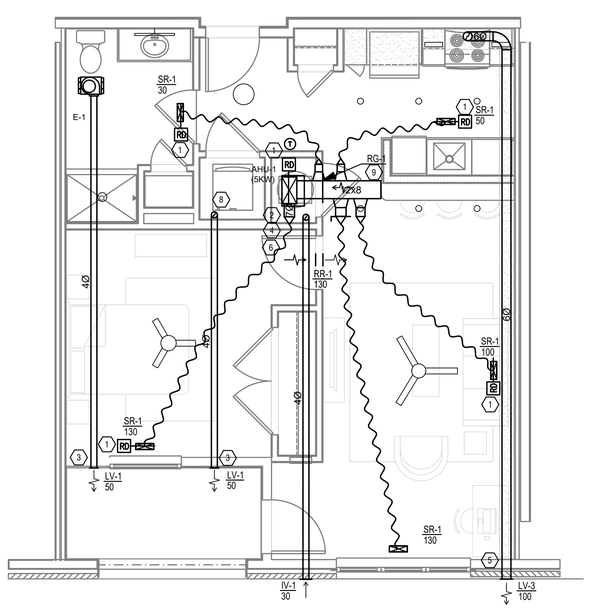
M10 **ENLARGED PLAN - UNIT TYPE 10**

1/4"=1'-0"



M11 **ENLARGED PLAN - UNIT TYPE 11**

1/4"=1'-0"



M9 **ENLARGED PLAN - UNIT TYPE 9**

1/4"=1'-0"

KEYED SHEET NOTES

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2. ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL CLOSET. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. COORDINATE FLOOR DRAIN LOCATION WITH PLUMBING CONTRACTOR
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H. PROVIDE OVERFLOW SWITCH FOR ALL UNITS IN APARTMENTS, WHICH WILL SHUTOFF THE UNIT ON HIGH WATER LEVEL.

I. IN DWELLING UNITS, ROUTE ALL SUPPLY ABOVE RATED CEILING. PROVIDE RADIATION DAMPERS FOR ALL SUPPLY DUCT PENETRATING RATED CEILING. COORDINATE ROUTING WITH ARCHITECTURAL DRAWINGS. KITCHEN EXHAUST DUCTS SHALL BE RUN BELOW THE RATED FLOOR/CEILING.

J. ROUTE ALL AIR CONDITIONER CONDENSATE TO FLOOR DRAIN IN MECHANICAL CLOSET. PROVIDE MINIMUM SLOPE OF 1/8 " PER FOOT. SIZE CONDENSATE PER SECTION 307.2.2 OF THE OHIO MECHANICAL CODE.

K. MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN ADA UNITS 40" ABOVE FINISHED FLOOR.

H. PROVIDE AN APPROVED THROUGH PENETRATION FIRESTOP FOR ALL PIPING INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479. FIRESTOP SHALL HAVE A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCHES OF WATER AND SHALL HAVE AN F RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL OR FLOOR PENETRATED.

I. ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE ALL NEW ELECTRICAL AND PLUMBING REQUIREMENTS WITH THE ELECTRICAL AND PLUMBING CONTRACTORS.

J. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABLED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.

J. THE FOLLOWING GUIDELINES MUST BE FOLLOWED FOR THE DOMESTIC DRYER EXHAUST SYSTEMS.
   - J.A. EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE CONSTRUCTED OF METAL A MINIMUM OF 28 GAGE.
   - J.B. DUCT SIZE SHALL BE 4 INCHES NOMINAL DIAMETER.
   - J.C. DUCTS SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING DUCT OR FITTING IN THE DIRECTION OF AIRFLOW.
   - J.D. DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT PROTRUDE MORE THAN ¼ INCH INTO THE INSIDE OF THE DUCT.
   - J.E. PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES DRYER EXHAUST DUCT.SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER. SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062 INCHES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES.
   - J.F. TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER THAN 8 FEET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN CONSTRUCTION.
   - J.G. PROVIDE DRYER WALL BOX EQUAL TO DUNDAS JAFINE MODEL DRB4XZW NEAR DRYER. CAP EXHAUST DUCT AT DRYER WALL BOX FOR FUTURE CONNECTION BY XXX.
   - J.H. PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) INDICATING ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH SHALL INCLUDE 5' FOR 90 . LABEL/TAG MUST BE WITHIN 6' OF DRYER EXHAUST CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH SHALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5 FEET FOR A RADIUS MITERED 90-DEGREE ELBOW.
   - J.I. CAP EXHAUST DUCT FOR FUTURE CONNECTION BY TENANT?

K. INDOOR TEMPERATURES SHALL BE CONTROLLED THROUGH THERMOSTAT.

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COORDINATION CHANGES

PR-10535

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STATE OF OHIO
SCOTT SEVERT STILKEY
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UNIT TYPICAL APARTMENT VENTILATION SCHEDULE

	TYPICAL UNIT	OCCUPANCY CLASSIFICATION	NUMBER OF BEDROOMS	OCCUPANCY DENSITY (PEOPLE/ft2)	RATE Rp (CFM/person)	PEOPLE Pz	TOTAL Rp*Pz (CFM)	AREA (ft2)	BREATHING ZONE OUTDOOR AIRFLOW Vbz (CFM)	ZONE OUTDOOR AIRFLOW Voz (CFM)	TOTAL OUTDOOR AIRFLOW Vot (CFM)*
EQUIPMENT	UNIT TYPE 1	PRIVATE DWELLING	1	*	15	2	30	669	30	30	40
	UNIT TYPE 2	PRIVATE DWELLING	1	*	15	2	30	472	30	30	40
	UNIT TYPE 3	PRIVATE DWELLING	1	*	15	2	30	472	30	30	40
	UNIT TYPE 4	PRIVATE DWELLING	1	*	15	2	30	472	30	30	40
	UNIT TYPE 5	PRIVATE DWELLING	2	*	15	3	45	472	45	45	40
	UNIT TYPE 6	PRIVATE DWELLING	1	*	15	2	30	472	30	30	40
	UNIT TYPE 7	PRIVATE DWELLING	2	*	15	3	45	740	45	45	40
	UNIT TYPE 8	PRIVATE DWELLING	2	*	15	3	45	947	45	45	40
	UNIT TYPE 9	PRIVATE DWELLING	1	*	15	2	30	937	30	30	40
	UNIT TYPE 10	PRIVATE DWELLING	1	*	15	2	30	901	30	30	40
	UNIT TYPE 11	PRIVATE DWELLING	2	*	15	3	45	901	45	45	40
	UNIT TYPE 12	PRIVATE DWELLING	2	*	15	3	45	559	45	45	40

UNIT VENTILATION CALCULATIONS ARE BASED ON "PRIVATE DWELLINGS, SINGLE AND MULTIPLE" OCCUPANCY CLASSIFICATION PER TABLE 403.3.1.1 OF THE 2017 OHIO MECHANICAL CODE.

EACH UNIT IS PROVIDED WITH VENTILATION AT A RATE OF 15 CFM/PERSON WHERE THE FIRST BEDROOM HAS 2 PEOPLE AND EACH ADDITIONAL BEDROOM HAS 1 PERSON.

TEMPSTAR APARTMENT SPLIT SYSTEM SCHEDULE

System	Outdoor Unit Tag	Model	Volts	Phase	MCA	MOCP	Outdoor Unit Weight	Indoor Unit Tag	Indoor Coil	Static	Air Flow CFM	Cool Cap Total	Cool Cap Sens	SEER	EER	Elect Heat Kw (240)	Elect Heat Kw (208)	Htg Cap 47 deg	Htg Cap 17 deg	HSPF	208 MCA	230 MCA	MOCP	Indoor Unit Weight	Notes
					Amps	Amps	lb			in wg.	cfm	Btuh	Btuh			kW	kW	Btuh	Btuh		Amps	Amps	Amps	lb	
1 Ton 5KW	HP-1	DLCSRBH12AAK	208/230	1	15	15	74	AHU-1 (5KW)	FMA4X1800AL	0.50	480	12600	11210	15.5	10.5	5	3.6	13,700	7,200	9.5	25	28.5	30	103	1-8
1.5 Ton 5KW	HP-2	DLCSRBH18AAK	208/230	1	16	25	101	AHU-2 (7.5KW)	FMA4X1800AL	0.50	600	18000	12690	17	11.8	5	3.6	19,200	15,000	11	34.9	40.1	50	103	1-12

1. EQUIPMENT SUPPORTS FOR ROOF INSTALLATION. COORDINATE EXACT TYPE WITH THE DEVELOPER.
2. VARIABLE SPEED (INVERTER) COMPRESSOR
3. LOW VOLTAGE CONTROLS
4. AUTO-RESTART FUNCTION
5. CONDENSER HIGH TEMP PROTECTION
6. MODES: COOL, HEAT, DRY, FAN, AUTO
7. QUIET OPERATION
8. PIPING ADAPTER KIT TO FACILITATE PIPING INSTALLATION WHEN MATCHED WITH FMA4 INDOOR UNIT

DUCT INSULATION SCHEDULE

AIR DISTRIBUTION TYPE	EQUIPMENT TAGS: CORRIDOR UNITS	AHU-1	AHU-2
SA	R-3.5	R-3.5	R-3.5
RA	-	-	-
OA	R-3.5	R-3.5	R-3.5

DUCT INSULATION REQUIREMENTS ARE BASED ON TABLE 6.8.2B OF ASHRAE 90.1 2010 ENERGY CODE.

PROVIDE DUCTWORK OF SUFFICIENT THICKNESS TO MEET THE INSTALLED R-VALUE REQUIREMENTS LISTED ABOVE.

ITEMS NOT REQUIRED TO BE INSULATED: FIBROUS-GLASS DUCTS, DUCTS WITH LINER THAT MEETS ASHRAE 90.1, FACTORY-INSULATED FLEXIBLE DUCTS, FACTORY-INSULATED PLENUMS AND CASINGS, FLEX CONNECTORS, VIBRATION-CONTROL DEVICES, FACTORY-INSULATED ACCESS PANELS AND DOORS.

FAN SCHEDULE

TAG	TYPE	AREA SERVED	MANUFACTURER	MODEL	DRIVE	CFM	ESP	WATTS	AMPS (MCA)	AMPS (MOP)	RPM	VOLT/PHASE	MOUNTING	WEIGHT	NOTES
E-1	EXHAUST	REFER TO DRAWINGS	PANASONIC	FV-05-11VKS1	DIRECT	40 - 80	0.15	17			1205	115/60/1	CEILING	12	1,2,4
E-2	EXHAUST	REFER TO DRAWINGS	GREENHECK	SP-A200	DIRECT	200	0.25	43	0.6	15	840	115/60/1	CEILING	24	3
S-1	SUPPLY	REFER TO DRAWINGS	GREENHECK	SQ-70-VG	DIRECT	150	0.25	-	1.6	15	1,452	115/60/1	CEILING	24	3,4
E-4	EXHAUST	REFER TO DRAWINGS	GREENHECK	SP-B80	DIRECT	70	0.25	18			900	115/60/1	CEILING	9	3

1. FAN SHALL RUN CONTINUOUSLY AT LOW SPEED (40 CFM) AND SHALL RAMP UP TO HIGH SPEED (80 CFM) WHEN SWITCH IS TURNED ON. PROVIDE ALL RELEVANT ACCESSORIES.
2. INSTALL RADIATION DAMPER PC-RD05C5
3. FAN TO BE OPERATED ON A WALL SWITCH (PROVIDED BY ELECTRICAL CONTRACTOR).
4. PROVIDE VIBRATION ISOLATION PADS

HEATER SCHEDULE

TAG	AREA SERVED	MANUFACTURER	MODEL	DRIVE	CFM	BTU/HR	KW	RPM	AMPS FLA	VOLT/PHASE	MOUNTING	NOTES
CH-1	MULTIPLE AREAS	BERKO	EFF4004	DIRECT	-	10,239	3	-	14.2	208/1	CEILING	1
WH-1	MULTIPLE AREAS	BERKO	FRA4024F	DIRECT	-	10,230	3	-	14.5	208/1	WALL	1,2
UH-1	COMMERCIAL	BERKO	MUH0581-PRO	DIRECT	350	17,060	5	-	24	208/1	CEILING	1,3

1. INTEGRAL THERMOSTAT
2. PROVIDE SURFACE MOUNT FOR CMU WALL
3. INSTALL HEATER FROM STRUCTURE ABOVE

TEMPSTAR SPLIT SYSTEM SCHEDULE (CORRIDOR)

Outdoor Unit Tag	Model	Volts	Phase	MCA 208	MOCP	Outdoor Unit Weight	Indoor Unit Tag	Indoor Coil	ESP	Air Flow CFM	Cool Cap Total	Cool Cap Sens	SEER 2	EER 2	Htg Cap 47 deg	Htg Cap 17 deg	HSPF 2	Elec Heat Model	Elec Heat KW	Elec Heat KW (208)	208 MCA	230 MCA	MOCP 208	MOCP 230	Indoor Unit Weight	Notes
				Amps	Amps	lb			in wg.	cfm	Btuh	Btuh			Btuh	Btuh			KW	KW	Amps	Amps	Amps	Amps	lb	
HP-CORR-X	N4H5S18AKAAA	208/230	1	13.4	20	140	AHU-CORR-X (8KW)	FJMA4X18	0.50	600	17200	13100	14.3	12	17400	10100	7.5	EHC07CKB1	8	6	39.3	43	40	45	124	1-5
HP-CORR/FIT	N4H5S30AKAAA	208/230	1	18.2	30	176	AHU-CORR/FIT (8KW)	FJMA4X30	0.50	1009	28400	21960	14.3	12	28600	17300	7.5	EHC07BKB1	8	6	43.3	47	45	50	152	1-5
HP-1ST FLOOR CORR.	N4H5S24AKAAA	208/230	1	14.5	25	159	AHU-1ST FLOOR CORR. (8KW)	FJMA4X24	0.50	876	23600	18690	15.2	12.5	23600	14400	7.5	EHC07BKB1	8	6	43.3	47	45	50	135	1-5

1 Adjustable Support Feet
2 Hard Start Kit (Capacitor and Relay
3 Crankcase Heater for Scroll Compressor
4 Low Ambient Isolation Relay Kit
5 Low Ambient Pressure Switch

DIFFUSER, GRILLE, AND REGISTER SCHEDULE

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTES
BV-2	ALUMINUM BRICK VENT (THREE BRICK), 4" STANDARD DEPTH, MESH ALUMINUM INSECT SCREEN STANDARD.	8x7 1/2	8x7 1/2	HART AND COOLEY/ BV808	SATIN ANODIZED FINISH
CD 4W-1	4-WAY THREE CONE DIFFUSER	12x12	6Ø	TITUS TMS	REMOVABLE CORE FROM FACE OF DIFFUSER. INSULATE BACK OF DIFFUSER.
CD 4W-3	4-WAY THREE CONE DIFFUSER	24x24	6Ø	TITUS TMS	REMOVABLE CORE FROM FACE OF DIFFUSER. INSULATE BACK OF DIFFUSER.
CD 4W-4	4-WAY THREE CONE DIFFUSER	24x24	8Ø	TITUS TMS	REMOVABLE CORE FROM FACE OF DIFFUSER. INSULATE BACK OF DIFFUSER.
CD 4W-5	4-WAY THREE CONE DIFFUSER	24x24	10Ø	TITUS TMS	REMOVABLE CORE FROM FACE OF DIFFUSER. INSULATE BACK OF DIFFUSER.
IV-1	ALUMINUM EXTERIOR RETURN GRILLE HVAC SIDEWALL-OUTSIDE AIR LOUVER WATERPROOF & RAIN BLOCK.	8x8	8x8	LAMINAIRE	PROVIDE BACK DRAFT DAMPER
LV-1	DRYER WALL VENT, 26 GAUGE GALVANIZED/ POWDER COATED STEEL BODY, RUBBER BUMPERS AND INTRUSION PREVENTION MAGNETS.	6x6	4Ø	DRYERWALLVENT/ DWV4	COORDINATE COLOR WITH ARCHITECT/OWNER. PROVIDE BACK DRAFT DAMPER
LV-2	EXTRUDED ALUMINUM STATIONARY LOUVER	12x12	12x12	RUSKIN ELF375DX	ALUMINUM BIRSCREEN
LV-3	DRYER WALL VENT, 26 GAUGE GALVANIZED/ POWDER COATED STEEL BODY, RUBBER BUMPERS AND INTRUSION PREVENTION MAGNETS.	8 1/2x8 1/2	6Ø	DRYERWALLVENT/ 6WVW	COORDINATE COLOR WITH ARCHITECT/OWNER. PROVIDE BACK DRAFT DAMPER
LV-4	EXTRUDED ALUMINUM STATIONARY LOUVER. DUAL DRAINABLE BLADE.	23x12	23x12	POTTORFF EDD-445	ALUMINUM BIRSCREEN. 4IN DEEP
LV-5	EXTRUDED ALUMINUM STATIONARY LOUVER. DUAL DRAINABLE BLADE.	12x12	12x12	POTTORFF EDD-445	ALUMINUM BIRSCREEN
LV-6	EXTRUDED ALUMINUM STATIONARY LOUVER. DUAL DRAINABLE BLADE.	18x12	18x12	POTTORFF EDD-445	ALUMINUM BIRSCREEN. 4IN DEEP
RG-1	STEEL/ALUMINUM RETURN GRILLE WITH 1/2" FIN SPACING	20x14	20x14	HART AND COOLEY 672	#26 WHITE FINISH.
RG-3	EGGCRATE RETURN GRILLE	24x24	22x22	TITUS 50F	#26 WHITE FINISH.
RG-4	EGGCRATE RETURN GRILLE	12x24	10x22	TITUS 50F	#26 WHITE FINISH.
RG-5	STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	22x22	20x20	TITUS 350RL	#26 WHITE FINISH.
RR-1	STEEL/ALUMINUM RETURN GRILLE, 1/2" BLADE SPACING	8x8	6x6	HART AND COOLEY 672	STEEL OPPOSED-BLADE DAMPER OPERABLE FROM THE FACE OF THE GRILLE.
RR-2	STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	14x8	12x6	TITUS 350RL	STEEL OPPOSED-BLADE DAMPER OPERABLE FROM THE FACE OF THE GRILLE.
SR-1	ALUMINUM STRAIGHT BLADE, VERTICAL FIN REGISTER	12x4	12x4	HART AND COOLEY A618	STEEL OPPOSED-BLADE DAMPER OPERABLE FROM THE FACE OF THE GRILLE.

10535 PARAMOUNT COMMONS T.I FITOUT

NOTES FOR ALL AIR DEVICES:
1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR MOUNTING TYPE
2. DUCT RUN-OUT SAME SIZE AS NECK UNLESS NOTED OTHERWISE
3. PLASTER FRAME WHERE LOCATED IN GYPSUM CEILING
4. PAINT DUCTWORK THAT IS VISIBLE BEHIND AIR DEVICES MATTE BLACK
5. AIR DEVICES SHALL BE ALUMINUM IN HIGH MOISTURE AREAS. (RESTROOMS)
6. WHERE AIR DEVICES ARE LOCATED IN A FIRE RATED ASSEMBLY, PROVIDE CEILING RADIATION DAMPERS, FIRE DAMPER, FIRE RATED INSULATION, AS REQUIRED PER CODE.
7. PROVIDE SAMPLE AIR DEVICES STYLE AND COLOR, FOR OWNER'S REPRESENTATIVE APPROVAL, BEFORE ORDERING FINAL AIR DEVICES.
8. ADD INSULATION TO THE BACK OF ALL AIR DEVICES WHERE DUCTWORK ALSO REQUIRES INSULATION.

Ventilation Schedule For PARAMOUNT COMMONS CORRIDORS (OMC 2017)

Room # and Name	Occupancy Type	Area Outdoor Air: Area (ft2)	Area Outdoor Air: Rate (cfm/ft2)	Area Outdoor Air: Total (cfm)	People Outdoor Air: Occupant Density	People Outdoor Air: Actual People	People Outdoor Air: Rate (cfm/per)	People Outdoor Air: Total (cfm)	Breathing Zone Outdoor Airflow (cfm)	Zone Air Distribution Effectiveness	Zone Airflow (cfm)	Supply Airflow (cfm)	OA/SA Ratio (%)	Exhaust Airflow (cfm)
		Az	Ra	Ra*Az	per 1000 sf	Pz	Rp	Rp*Pz	Vbz=Rp*Pz+Ra*Az	Ez	Voz			
CORRIDOR 127	Corridor	200	0.06	12	0	0	0	0	12	0.8	15	50	30	0
LOBBY/MAIL 120	Main Entry Lobbies	320	0.06	19.2	10	4	5	20	39.2	0.8	49	250	19.6	0
Total		520				4					64	300	49.6	0

RESTROOMS EXHAUST 70 CFM PER FLUSHABLE FIXTURE.

Ventilation Schedule For PARAMOUNT COMMONS 2ND FLOOR CORRIDORS (OMC 2017)

Room # and Name	Occupancy Type	Area Outdoor Air: Area (ft2)	Area Outdoor Air: Rate (cfm/ft2)	Area Outdoor Air: Total (cfm)	People Outdoor Air: Occupant Density	People Outdoor Air: Actual People	People Outdoor Air: Rate (cfm/per)	People Outdoor Air: Total (cfm)	Breathing Zone Outdoor Airflow (cfm)	Zone Air Distribution Effectiveness	Zone Airflow (cfm)	Supply Airflow (cfm)	OA/SA Ratio (%)	Exhaust Airflow (cfm)
		Az	Ra	Ra*Az	per 1000 sf	Pz	Rp	Rp*Pz	Vbz=Rp*Pz+Ra*Az	Ez	Voz			
CORRIDOR 220	Corridor	620	0.06	37.2	0	0	0	0	37.2	0.8	47	525	9	0
Total		620				0					47	525	9	0

RESTROOMS EXHAUST 70 CFM PER FLUSHABLE FIXTURE.

Ventilation Schedule For PARAMOUNT COMMONS 3RD FLOOR CORRIDORS (OMC 2017)

Room # and Name	Occupancy Type	Area Outdoor Air: Area (ft2)	Area Outdoor Air: Rate (cfm/ft2)	Area Outdoor Air: Total (cfm)	People Outdoor Air: Occupant Density	People Outdoor Air: Actual People	People Outdoor Air: Rate (cfm/per)	People Outdoor Air: Total (cfm)	Breathing Zone Outdoor Airflow (cfm)	Zone Air Distribution Effectiveness	Zone Airflow (cfm)	Supply Airflow (cfm)	OA/SA Ratio (%)	Exhaust Airflow (cfm)
		Az	Ra	Ra*Az	per 1000 sf	Pz	Rp	Rp*Pz	Vbz=Rp*Pz+Ra*Az	Ez	Voz			
CORRIDOR 320	Corridor	1170	0.06	70.2	0	0	0	0	70.2	0.8	88	525	16.8	0
Total		1170				0					88	525	16.8	0

RESTROOMS EXHAUST 70 CFM PER FLUSHABLE FIXTURE.

Ventilation Schedule For PARAMOUNT COMMONS 4TH FLOOR CORRIDORS (OMC 2017)

Room # and Name	Occupancy Type	Area Outdoor Air: Area (ft2)	Area Outdoor Air: Rate (cfm/ft2)	Area Outdoor Air: Total (cfm)	People Outdoor Air: Occupant Density	People Outdoor Air: Actual People	People Outdoor Air: Rate (cfm/per)	People Outdoor Air: Total (cfm)	Breathing Zone Outdoor Airflow (cfm)	Zone Air Distribution Effectiveness	Zone Airflow (cfm)	Supply Airflow (cfm)	OA/SA Ratio (%)	Exhaust Airflow (cfm)
		Az	Ra	Ra*Az	per 1000 sf	Pz	Rp	Rp*Pz	Vbz=Rp*Pz+Ra*Az	Ez	Voz			
CORRIDOR 424	Corridor	1170	0.06	70.2	0	0	0	0	70.2	0.8	88	525	16.8	0
Total		1170				0					88	525	16.8	0

RESTROOMS EXHAUST 70 CFM PER FLUSHABLE FIXTURE.

Ventilation Schedule For PARAMOUNT COMMONS 5TH FLOOR CORRIDORS (OMC 2017)

Room # and Name	Occupancy Type	Area Outdoor Air: Area (ft2)	Area Outdoor Air: Rate (cfm/ft2)	Area Outdoor Air: Total (cfm)	People Outdoor Air: Occupant Density	People Outdoor Air: Actual People	People Outdoor Air: Rate (cfm/per)	People Outdoor Air: Total (cfm)	Breathing Zone Outdoor Airflow (cfm)	Zone Air Distribution Effectiveness	Zone Airflow (cfm)	Supply Airflow (cfm)	OA/SA Ratio (%)	Exhaust Airflow (cfm)
		Az	Ra	Ra*Az	per 1000 sf	Pz	Rp	Rp*Pz	Vbz=Rp*Pz+Ra*Az	Ez	Voz			
CORRIDOR 524	Corridor	1170	0.06	70.2	0	0	0	0	70.2	0.8	88	525	16.8	0
Total		1170				0					88	525	16.8	0

RESTROOMS EXHAUST 70 CFM PER FLUSHABLE FIXTURE.

Ventilation Schedule For PARAMOUNT COMMONS 6TH FLOOR CORRIDORS (OMC 2017)

Room # and Name	Occupancy Type	Area Outdoor Air: Area (ft2)	Area Outdoor Air: Rate (cfm/ft2)	Area Outdoor Air: Total (cfm)	People Outdoor Air: Occupant Density	People Outdoor Air: Actual People	People Outdoor Air: Rate (cfm/per)	People Outdoor Air: Total (cfm)	Breathing Zone Outdoor Airflow (cfm)	Zone Air Distribution Effectiveness	Zone Airflow (cfm)	Supply Airflow (cfm)	OA/SA Ratio (%)	Exhaust Airflow (cfm)
		Az	Ra	Ra*Az	per 1000 sf	Pz	Rp	Rp*Pz	Vbz=Rp*Pz+Ra*Az	Ez	Voz			
CORRIDOR 624	Corridor	1170	0.06	70.2	0	0	0	0	70.2	0.8	88	525	16.8	0
Total		1170				0					88	525	16.8	0

RESTROOMS EXHAUST 70 CFM PER FLUSHABLE FIXTURE.

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STATE OF OHIO
SCOTT SEVERT STILKEY
E-77795
REGISTERED PROFESSIONAL ENGINEER

Drawing Title
MECHANICAL DETAILS

Document No.
M300

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Z:\~Project Directories\10500 - 10599\10535 - Paramount Commons - Cincinnati OH\~Construction Documents\10535-M301-MECHANICAL-SPEC.dwg-EBS, Plot Date/Time: Feb 22, 2024-5:35pm - By: cgriffin
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PLOTTED: Thursday, February 22, 2024 5:35:14 PM

MECHANICAL SPECIFICATIONS

1. General
   a. Refer to architectural drawings, general notes, instructions to bidders, general conditions, supplementary general conditions, base building specifications and drawings, shop drawing manuals and as-built plans, except as noted herein, which apply in all respects to this section. The contractor shall visit the site and familiarize himself with all existing conditions prior to bidding the work
2. Use of Drawings And Specifications
   a. EBS drawings and specifications are intended to convey design intent only. All means and methods sequences, techniques, and procedures of construction as well as any associated safety precautions and programs, and all incidental and temporary devices required to construct the project, and to provide a complete and fully operational mechanical system are the responsibility of the mechanical contractor.
3. Standards
   a. Equipment and materials shall conform with appropriate provisions of AGA, ARI, ASME, ASTM, CISPI, UL, NEMA, ANSI, SMACNA, ASHRAE, NFPA, NEC, as applicable to each individual unit or assembly. All equipment must bear UL label.
4. License / Experience
   a. Contractor must be licensed by the state to install HVAC systems/equipment. Contractor must also have a minimum of 5 years of experience and have installed at least (5) successful project installations of similar size and scope. References must be provided upon request.
5. Codes
   a. All work shall be performed in strict accordance with all applicable state and local codes and ordinances. The mechanical contractor shall satisfy code requirements at a minimum without any extra cost to the owner. In case of conflict between the drawings/specifications and the codes and ordinances, the highest standard shall apply.
6. Permits and Fees
   a. The mechanical contractor shall procure and pay for all permits, fees, taxes, and inspections necessary to complete the mechanical work. Furnish certificate of approval for work from inspection authority to owner before final acceptance for work. Certificate of final inspection and approval shall be submitted with the contractor's request for payment. No final payment will be approved without this certificate.
7. Site Examination
   a. The mechanical contractor shall thoroughly examine all areas of work where equipment, ductwork, and piping will be installed and shall report any condition that, in his opinion, prevents the proper installation of the mechanical work prior to bid. Contractor shall also examine the drawings and specifications of other branches of work, making reference to them for details of new or existing building conditions. No extras will be allowed for failure to include all required work in bid.
   b. All work shall be done at times convenient to the owner and only during normal working hours, unless specified otherwise.
   c. Mechanical contractor shall take their own measurements and be responsible for them.
   d. Access panels are not shown on drawings. During site examination, contractor shall identify all areas where access panels are required, and report to general contractor. Designation of who furnishes and who installs access panels must be coordinated with general contractor prior to starting work.
8. Contractor Coordination
   a. Coordination drawings showing system and component installation layout, routing, details, etc. Shall be produced by the mechanical contractor and under the supervision of the general contractor/construction manager, or appropriate party as applicable.
   b. All systems installed by each sub-contractor shall be coordinated with one another and approved by general contractor/construction manager, etc. prior to installation and/or fabrication.
   c. If questions concerning design intent arise during coordination, EBS can assist where appropriate.
   d. The architectural drawings shall take precedence over all other drawings. Do not scale distances off the mechanical drawings; use actual building dimensions.
9. Shop Drawings / Submittals
   a. Submit to the architect electronic copies of complete and certified shop drawings, descriptive data, performance data and ratings, diagrams and specifications on all specified equipment, including accessories, and materials for review. The make, model number, type, finish and accessories of all equipment and materials shall be reviewed and approved by the mechanical contractor and general contractor prior to submitting to the architect for their review and approval. Approval of shop drawings does not relieve the mechanical contractor/vendor from compliance with the requirements of the contract drawings, specifications and applicable codes.
   b. Shop drawings shall be required for the following:
      - HVAC equipment
      - Fans
      - Diffusers, registers, grilles, dampers, louvers, and all sheet metal accessories
      - Temperature controls
      - Sheet metal coordination drawings
      - Duct Sealants
   c. Air balance report Products installed by the mechanical contractor and provided by others must be submitted for review prior to purchasing. Products shall not be selected based on permit drawings without express permission - products shall be selected based on construction drawings.
10. Record Drawing
    a. The mechanical contractor shall be responsible for creating record drawings where required. Drawings shall be produced in Autocad 2004 format or later.
11. Testing
    a. All mechanical systems shall be tested for proper operation.
12. Fire Stopping
    a. Provide fire stopping at all penetrations through rated separations per local codes & regulations & per UL recommendations for assemblies encountered in project.
    b. The fire stopping material shall meet the integrity of the fire rated wall, floor, ceiling & roof being penetrated. Refer to architect's drawings for wall, floor, ceiling & roof fire ratings prior to bidding work.
    c. Refer to architect's drawings for wall, floor, ceiling, and roof fire ratings prior to bidding work.
13. Access Panels
    a. Provide ceiling and wall access panel quantities & locations to the general contractor prior to bidding. Access panels are required for all concealed appliances, controls devices, heat exchangers and HVAC system components that utilize energy. Where access panels are used, the access panel should be sized to allow accessibility for inspection, service, repair and replacement without disabling the function of a fire-resistance-rated assembly or removing permanent construction, other appliances, venting systems or any other piping or ducts not connected to the appliance being inspected, serviced, repaired or replaced. There shall be no extras for having to add access panels after bids are awarded.
14. Cutting and Patching
    a. Neatly do all cutting as required and patch all cut surfaces to match building construction. The contractor shall employ and pay a trade trained and qualified to perform the required patching work. All surfaces disturbed shall be restored with like materials to the satisfaction of the owner. All penetrations through roof shall be made by bonded roofer. Mechanical contractor shall pay all fees required.
15. Flashing & Counterflashing
    a. Roof flashing shall be furnished and installed by the roofing contractor. Roof counterflashing shall be furnished and installed by the mechanical contractor. Coordinate work with roofing contractor and pay all fees.
    b. Obtain approval from general contractor, construction manager, owner and/or roofing contractor prior to making any penetrations so that warranties are not compromised or voided.
16. Warranty
    a. The mechanical contractor shall unconditionally warrant all work to be free of defects in equipment, material and workmanship for a period of one (1) year from the date of final acceptance by owner. The mechanical contractor will repair or replace any defective work promptly and without charge to the owner.
    b. Restore any other existing work damaged in the course of repairing defective equipment, materials and workmanship.
17. Mechanical Work
    a. The mechanical contractor shall provide new hvac equipment, fans, ductwork, piping, air devices, controls as indicated on drawings and as specified. Startup and 1st year parts and labor warranty shall be included and manufacturer's extended warranties. Equipment and appliances shall be installed as required by the terms of their approval, in accordance with the conditions of the listing, the manufacturer's installation instructions, and the applicable code.
18. Owner's Instructions
    a. Provide two sets of complete operating and maintenance instructions with drawings, typewritten instructions and operating sequences and descriptive data sheets. Assemble each set in a hard-bound cover. Provide pdf files of all documentation.
19. Finale
    a. Put all equipment in service and demonstrate that all conditions of the contract have been fulfilled. Remove all tools, debris, etc. occasioned by work under this contract. Mechanical Contractor to provide a new set of filters in all HVAC units prior to turnover. Submit all warranties, test reports, operating and maintenance manuals for HVAC systems, log sheets and charts, and guarantees as previously specified. Provide all reports, forms, etc. required by inspectors to the satisfaction of the owner. Provide as-built record drawings (in Autocad 2007 or later) showing an accurate account of the final installed systems. Systems including but not limited to all equipment and associated controls, ductwork/piping, air devices, etc.
20. Sheetmetal Ductwork
    a. All sizes of ducts shown on the drawings are interior duct dimensions. All ductwork shall be rigid sheetmetal constructed from galvanized sheet steel in accordance with SMACNA low velocity duct construction standards. All exposed ductwork shall be round, spiral, or rectangular lock-seam type, as shown on HVAC drawings. Assemble and install ductwork in accordance with recognized industry practice for achieving air tight (5% leakage) and noiseless (no objectionable noise) systems, capable of performing each indicated service. Furnish all required dampers, transitions, offsets, connections to air devices, and other accessories necessary for a complete operating system. Flexible ductwork shall not exceed 8'-0" long.
    b. All 90-degree duct turns must be 1.5 radius elbows. If a 1.5 radius elbow will not fit, square elbows with turning vanes can be provided in lieu of radius but should be limited to only areas where there are space constraints.
    c. All takeoff/branch ductwork must utilize boot or conical tee fittings.
21. Adhesives and Sealants
    a. Seal all longitudinal and transverse duct joints with a UL 181A or 181B non-hardening, non-migrating mastic or liquid elastic sealant of a type recommended by the manufacturer for sealing joints and seams in sheet metal ductwork. Cover all field joints, joints around spin-in fittings and fastening screws with mastic. All sealants and gaskets shall have surface-burning characteristics with a maximum flame-spread index of 25 and a maximum smoke-developed index of 50 when tested according to UL 723.
    b. Exposed Ductwork: trim duct sealants flush with metal. Create a smooth and uniform exposed bead. Do not use two-part tape sealing system.
    c. For indoor applications, all adhesives, sealants, and sealant primers must meet the requirements of CA Section 01350.
    d. All duct boots sealed to drywall/finished floor (any interface with another material).
22. Duct Supports
    a. Furnish and install hot-dipped galvanized steel fasteners, hangers, anchors, rods, straps, trim, and angles for support of ductwork.
23. Flexible Connections
    a. Furnish and install neoprene flexible duct connections at the inlet and discharge of units and fans.
24. Duct Manual Volume Dampers
    a. Furnish and install opposed-blade, leak-proof volume control dampers where indicated on drawings and locations in supply, return and exhaust ducts where branches are taken from larger ducts or at each individual duct register in order to achieve system air balance quantities. Balancing devices must be provided in accordance with IMC 603.18. All manual volume dampers must be shown on coordination drawings when submitted for review.
25. Fire Dampers
    a. Furnish and install UL555 listed fire dampers as shown on the drawings and in accordance with NFPA and local and state codes. Refer to architectural drawings for all rated walls, floors, and roofs. Fire dampers shall be UL labeled and installed as shown on the drawings or as required by NFPA and codes. Dampers and sleeves shall meet construction requirements of NFPA 90A, 92A, and 92B. Dampers shall be AMCA licensed for air performance. Damper construction shall be a minimum 16-gauge steel frame for square or rectangular ducts and 14-gauge steel frame for round ducts. Damper blades shall be 16-gauge galvanized steel. Bearings and jamb seals shall be stainless steel. Each fire damper shall have a rating that meets the fire resistance requirement of the assembly rating and shall be supplied with a 165-degree F fusible link. Provide all necessary sleeves, angles, etc. Required to provide an installation in accordance with the damper manufacturer's installation instructions. Dampers shall be approved for vertical or horizontal mounting as required by the location shown and shall be labeled for use in dynamic systems.
26. Duct Access Doors
    A. Furnish and install conveniently located duct access doors of ample size and quantity for servicing the dampers.
27. Diffusers, Grilles and Registers
    A. Diffusers, grilles and registers shall be manufactured by titus, price, or engineered approved equal and shall be furnished and installed by the mechanical contractor. Diffusers shall be installed as indicated on the drawings and schedules. The mechanical contractor shall provide all miscellaneous items necessary for a complete and proper installation in the type of ceiling and walls used in this project.
28. Exhaust Fan
    A. Fan manufacturer shall be Panasonic, Cook, Greenheck, or engineered approved equal. Refer to drawings and schedules for unit location, technical data, and any applicable accessories.
29. Rooftop Unit
    A. Outdoor, rooftop mounted, electrically controlled, heating and cooling unit utilizing scroll compressors for cooling and natural gas for heating. Unit shall have standard manufacturer warranty on parts. Install per manufacturer's requirements. Refer to drawings and schedules for unit location, technical data, and accessories.
       - Rooftop manufacturer shall be Trane, ICP(Tempstar), Carrier, or equivalent.
30. Ducted Split Systems
    a. Split systems shall consist of high efficient air handling unit and associated heat pump. Equipment shall have manufacturer's standard warranty.
    b. Split system manufacturer shall be Tempstar, Carrier, Goodman, or engineered equal.
31. Condensate Drain Piping
    A. The mechanical contractor shall furnish and install condensate drains, p-traps with removable cleanout caps for air equipment per manufacturer's recommendations. The p-trap depth shall be at least the depth specified for the respective pressure drop of the unit. Condensate drain piping shall be schedule 40 CPVC pipe with solvent weld fittings. All condensate drain lines shall be configured to permit the clearing of blockages and performance of maintenance without requiring the drain line to be cut. For condensate pumps located in uninhabitable spaces (i.e. attics and crawl spaces), provide controls that will shut down the equipment if the condensate pump fails.
    B. All cooling equipment shall have a wet switch in the primary drain line, the overflow drain line, or in the equipment-supplied drain pan (located at a point higher than the primary drain line connection and below the overflow rim of the pan) that will shut down the unit when the condensate is clogged..
32. Piping Supports (Metal Pipe)
    A. Furnish and install hot-dipped galvanized steel fasteners, hangers, anchors, rods, straps, trim and angles for support of piping.
33. Piping Supports (Plastic Pipe)
    A. Furnish and install hangers for plastic piping per manufacturer's requirements.
34. Temperature Controls and Control Wiring
    A. The mechanical contractor shall provide all control wiring necessary for the complete and proper operating temperature control system. Programmable thermostats shall be provided with equipment packages unless otherwise noted. Where equipment is capable of dehumidification control, provide a thermostat capable of actively monitoring and controlling both temperature and humidity.
    B. Exposed wiring: All wiring exposed to the space shall be run in conduit. Coordinate requirements with architectural drawings.
    A. Testing, Balancing, and Adjusting The individual performing the air balancing shall be a certified test and balancer and a member of NEBB or AABC, using calibrated equipment. The certified air balance contractor shall accurately balance the systems to provide air quantities as indicated on the drawings and in the schedules/specifications, operate automatic control systems, and verify set points during balancing.
35. Sequence of Operation
    - Heaters
      - H-3,4: heater shall be controlled from the integral thermostat. When the temperature of the space drops below the thermostat setpoint, the heater fan shall run and the electric heating element shall engage to maintain temperature setpoint.
    - Exhaust Fans
      - E-1: exhaust fan shall continuously run at low speed (40CFM). The fan shall ramp up to 80(CFM)when the switch is turned on or when moisture is detected by the fans condensation sensor.
      - E-2: exhaust fan shall run on a wall switch (provided by the electrical contractor). The fan shall be set to run during occupied mode as determined by the architect/owner.
      - E-3/5: exhaust fan shall run on a wall switch (provided by the electrical contractor).
      - E-4: exhaust fan shall run on a reverse acting thermostat. When the temperature of the elevator shaft rises above 80° (adjustable). The fan shall run to extract heat from the elevator shaft. When the temperature lowers below the set point the fan shall turn off.
      - Rooftop units
      - RTU-1,2,3: unit shall be controlled from a thermostat in the space.
      - Heating mode - when the thermostat calls for heating the fan shall run and the gas fired heat exchanger shall fire to maintain temperature setpoint. When the setpoint is reached the heater shall shut off.
      - Cooling mode - when the thermostat calls for cooling the refrigeration system shall engage, the fan shall run, and the dx cooling coil shall cool the air to maintain temperature setpoint. When the setpoint is reached, the refrigeration system shall shut off.
      - Economizer mode - when the economizer is enabled (the outside air enthalpy is lower than the return air enthalpy), the economizer becomes the first stage of cooling. The economizer damper will modulate to maintain space temperature.
      - AHU/HP-X:
      - Heating mode - indoor air handler shall be controlled from a thermostat in the space. When the thermostat calls for heating the fan shall run and the heat pump in heating mode shall run to maintain temperature setpoint. If the heat pump cannot maintain temperature in the space, the electric heat kit shall energize until set point is reached. When the setpoint is reached the unit shall shut off.
      - Cooling mode - when the thermostat calls for cooling the heat pump unit shall run in cooling mode, the air handler fan shall run, and the dx cooling coil shall cool the air to maintain temperature setpoint.
      - Ventilation - Motor operated damper to be linked to air handler blower. When the air handler blower is in operating the MOD is to open to is desired position (adjustable) to allow ventilation air into the building.

PARAMOUNT WORKS
NWC KEMPER LANE & E. McMILLAN ST
2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

No.	Issuances / Revisions / Submissions	Date
	PRICING/PERMIT ISSUANCE	02.23.2024

PR-10535

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Shared Success Through Collaboration and Efficiency
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STATE OF OHIO
SCOTT SEVERT STILKEY
E-77755
REGISTERED PROFESSIONAL ENGINEER

Drawing Title
MECHANICAL SPECIFICATIONS

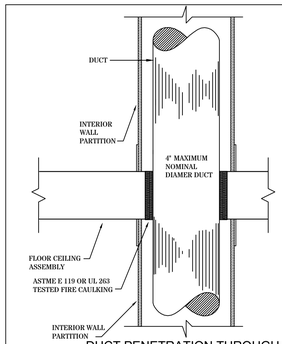
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GENERAL NOTES

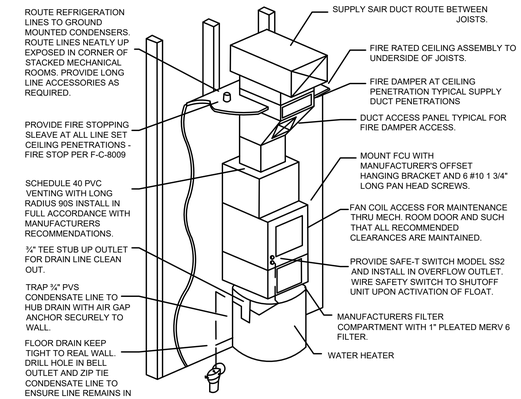
- 4" EXHAUST DUCT TO BE ROUTED DIRECTLY TO ROOF AS ALLOWED BY OBC 717.6.1. EXCEPTION: A DUCT IS PERMITTED TO PENETRATE THREE FLOORS OR LESS WITHOUT A FIRE DAMPER AT EACH FLOOR, PROVIDED SUCH DUCT MEETS ALL OF THE FOLLOWING REQUIREMENTS:
  - 1.1. THE DUCT SHALL BE CONTAINED AND LOCATED WITHIN THE CAVITY OF A WALL AND SHALL BE CONSTRUCTED OF STEEL HAVING A MINIMUM WALL THICKNESS OF 0.0187 INCHES (NO. 26 GAGE).
  - 1.2. THE DUCT SHALL OPEN INTO ONLY ONE DWELLING OR SLEEPING UNIT AND THE DUCT SYSTEM SHALL BE CONTINUOUS FROM THE UNIT TO THE EXTERIOR OF THE BUILDING.
  - 1.3. THE DUCT SHALL NOT EXCEED 4-INCH NOMINAL DIAMETER AND THE TOTAL AREA OF SUCH DUCTS SHALL NOT EXCEED 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF FLOOR AREA.
  - 1.4. THE ANNULAR SPACE AROUND THE DUCT IS PROTECTED WITH MATERIALS THAT PREVENT THE PASSAGE OF FLAME AND HOT GASES SUFFICIENT TO IGNITE COTTON WASTE WHERE SUBJECTED TO ASTM E 119 OR UL 263 TIME TEMPERATURE CONDITIONS UNDER A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER AT THE LOCATION OF THE PENETRATION FOR THE TIME PERIOD EQUIVALENT TO THE FIRE-RESISTANCE RATING OF THE CONSTRUCTION PENETRATED. GRILLE OPENINGS LOCATED IN A CEILING OF A FIRE-RESISTANCE-RATED FLOOR/CEILING OR ROOF/CEILING ASSEMBLY SHALL BE PROTECTED WITH A LISTED CEILING RADIATION DAMPER INSTALLED IN ACCORDANCE WITH SECTION 717.6.2.1. (NOT APPLICABLE)
  - 9.5.



DUCT PENETRATION THROUGH RATED FLOOR

SCALE: NTS

7

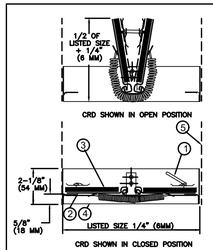


7 APARTMENT STACKED FAN COIL DETAIL

SCALE: NONE

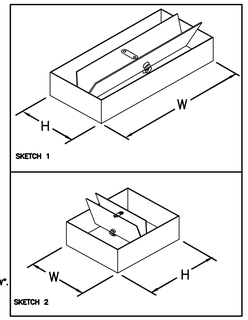
CEILING RADIATION DAMPERS

Model 50 UL Classified 3 Hour Rating — type **CRD** "RECTANGULAR"



1. UL LISTED LINK (165°F STANDARD)
2. BLADES 22 (.853mm) GA. GALV. STEEL.
3. CERAMIC FIBER WITH FIBERGLASS COVER*
4. ROLL-FORMED FRAME 22 (.853 MM) GA. GALV. STEEL
5. STEEL DUCT DROP (BY OTHERS).

NOTES:
1. MAXIMUM SIZE 24" X 24" (600mm x 600mm). MINIMUM SIZE 4" X 4" (101mm X 101mm).
2. AVAILABLE IN STAINLESS STEEL
3. MANUFACTURED WITH BLADE OPENING AS PER SKETCH #1: WHEN "W" IS EQUAL TO OR GREATER THAN 6"
4. MANUFACTURED WITH BLADE OPENING AS PER SKETCH #2: WHEN "W" IS LESS THAN 6" AND "H" IS GREATER THAN "W".
5. *CERAMIC INSULATION IS NOT UL REQUIRED ON DAMPERS WITH AREAS LESS THAN 80 SQUARE INCHES AND IS OPTIONAL. DAMPERS ABOVE 80 SQUARE INCHES WILL BE PROVIDED WITH BLADE INSULATION.



CRD 50

LOOK FOR THESE LABELS

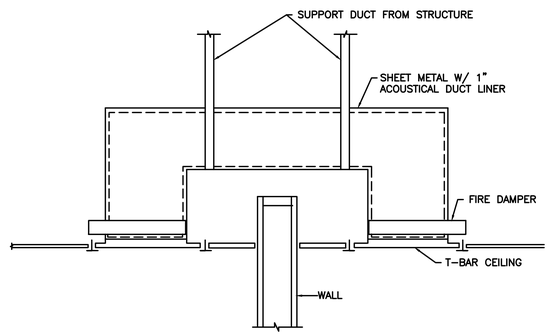
SHEET METAL WORKERS' INTERNATIONAL ASSOCIATION — SMACNA-USA — Intl. Ass. - 1888

FIRE DAMPER — Listing No. 3225-1417-101

CLASSIFIED — UL — UNDERWRITERS LABORATORIES (UL555C) CLASSIFIED CEILING RADIATION DAMPERS. FIRE RESISTENCE RATED 3 HOURS. FOR USE IN UL CLASSIFIED BUILDING MATERIALS RATED 3 HOURS OR LESS.

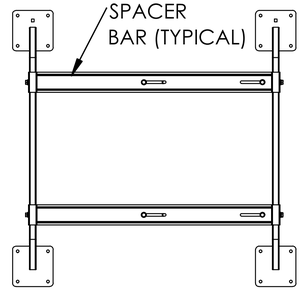
JOB NAME: _____
LOCATION: _____
ARCHITECT: _____
ENGINEER: _____
CONTRACTOR: _____

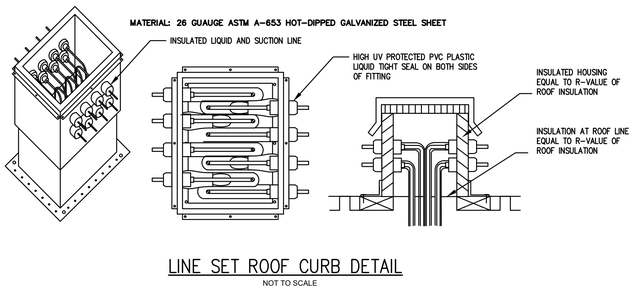
CLLOYD21-B



TYPICAL TRANSFER GRILLE DETAIL

NO SCALE





LINE SET ROOF CURB DETAIL

NOT TO SCALE

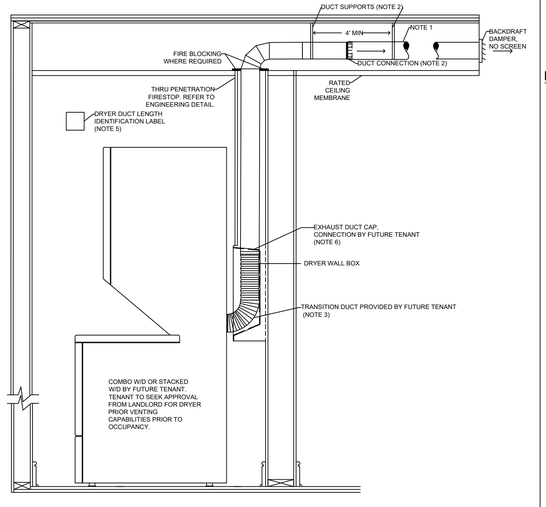


TABLE 504.8.4.1
DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH

DRYER EXHAUST DUCT FITTING TYPE	EQUIVALENT LENGTH
4" radius mitered 45-degree elbow	2 feet 6 inches
4" radius mitered 90-degree elbow	2 feet 6 inches
6" radius mitered 45-degree elbow	2 feet 6 inches
6" radius mitered 90-degree elbow	2 feet 6 inches
8" radius mitered 45-degree elbow	2 feet 6 inches
8" radius mitered 90-degree elbow	2 feet 6 inches
10" radius mitered 45-degree elbow	2 feet 6 inches
10" radius mitered 45-degree elbow	2 feet 6 inches

NOTES (504.8 2017 OMC)

1. MATERIAL AND SIZE. DRYER DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH, BE CONSTRUCTED OF OF METAL AT LEAST 0.016 IN. (28 GAGE) THICK AND BE 4-INCHES IN DIAMETER (SECTION 504.8.1).
2. DUCT INSTALLATION. SUPPORT EXHAUST DUCTS AT 4 FT. INTERVALS AND SECURE IN PLACE. SECURE WITH ALUMINUM FOIL DUCTWORK TAPE. IF USING SCREWS OR POP-RIVETS THEY MUST PROTRUDE NO MORE THAN 1/8 INCH INTO THE INSIDE OF THE DUCT (SECTION 504.8.2).
3. TRANSITION DUCTS. TRANSITION DUCT TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM MUST BE A SINGLE LENGTH LISTED/ LABELED PER UL2158. TRANSITION DUCT MUST BE NO MORE THAN 8 FT. LONG AND CANNOT BE CONCEALED WITHIN CONSTRUCTION. (SECTION 504.8.3).
4. DUCT LENGTH. THE MAXIMUM ALLOWABLE EXHAUST SHALL BE DETERMINED BY ONE OF THE METHODS IN SECTIONS 504.8.4.1 THROUGH 504.8.4.3.
   - 4.1. 504.8.4.1 SPECIFIED LENGTH: THE MAX LENGTH OF EXHAUST DUCT IS 35 FEET FROM CONNECTION TO TRANSITION DUCT FROM DRYER TO OUTLET. THE MAXIMUM LENGTH OF THE EXHAUST DUCT IS REDUCED FROM FITTINGS USED ACCORDING TO TABLE 504.8.4.1 ABOVE.
   - 4.2. 504.8.4.2 MANUFACTURER'S INSTRUCTIONS: THE MAX LENGTH OF THE EXHAUST DUCT WILL BE DETERMINED BY THE INSTALLATION INSTRUCTIONS WHICH ARE PROVIDED BY THE DRYER MANUFACTURER (IF APPLICABLE).
   - 4.3. 504.8.4.3 DRYER EXHAUST DUCT POWER VENTILATOR LENGTH: THE MAX LENGTH OF DRYER EXHAUST TO BE DETERMINED BY DRYER EXHAUST DUCT POWER VENTILATOR MANUFACTURER'S INSTALLATION INSTRUCTIONS (IF APPLICABLE).
5. LENGTH IDENTIFICATION. IF THE EXHAUST DUCT EXCEEDS 35 FT. THE EQUIVALENT LENGTH OF DUCT SHALL BE SHOWN ON A PERMANENT LABEL/TAG. LABEL/TAG TO BE PLACED WITHIN 6FT. OF EXHAUST DUCT CONNECTION. LABEL EQUAL TO *DRYER PLACARD* BRAND. (SECTION 504.8.5).
6. EXHAUST DUCT REQUIRED. WHERE THE EXHAUST DUCT SYSTEM IS INSTALLED FOR FUTURE USE, THE EXHAUST DUCT SHALL BE CAPPED AT FUTURE DRYER LOCATION. (SECTION 504.8.6).

CODE REFERENCED: *2017 OHIO MECHANICAL CODE*

DRYER EXHAUST DUCT DETAIL

PARAMOUNT WORKS
NWC KEMPER LANE & E. McMILLAN ST
2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

No.	Issuances / Revisions / Submissions	Date
	PRICING/PERMIT ISSUANCE	02.23.2024

PR-10535

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STATE OF OHIO — SCOTT SEVERT STILKEY — E-77795 — REGISTERED PROFESSIONAL ENGINEER

Drawing Title

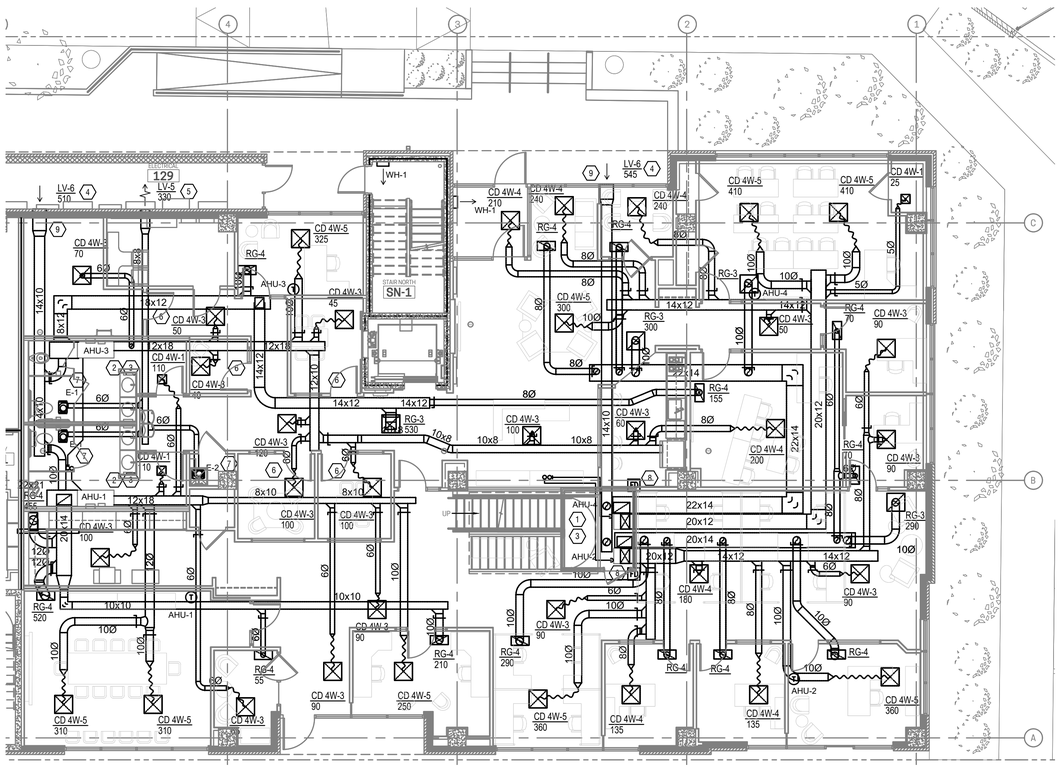
MECHANICAL DETAILS

Document No.

M302

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MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY) TENANT FITOUT

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CODES & STANDARDS REFERENCED

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- 2017 OHIO BUILDING CODE
- ASHRAE 90.1-2010 GOLD

HVAC DESIGN CONDITIONS

COOLING	HEATING
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INDOOR: 72	INDOOR: 70

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PARAMOUNT WORKS

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CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

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COORDINATION CHANGES

PR-10535

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STATE OF OHIO
SCOTT SEVERT STILKEY
E-77795
REGISTERED PROFESSIONAL ENGINEER

Drawing Title
MECHANICAL TI OFFICE PLANS

Document No.
TI-M100

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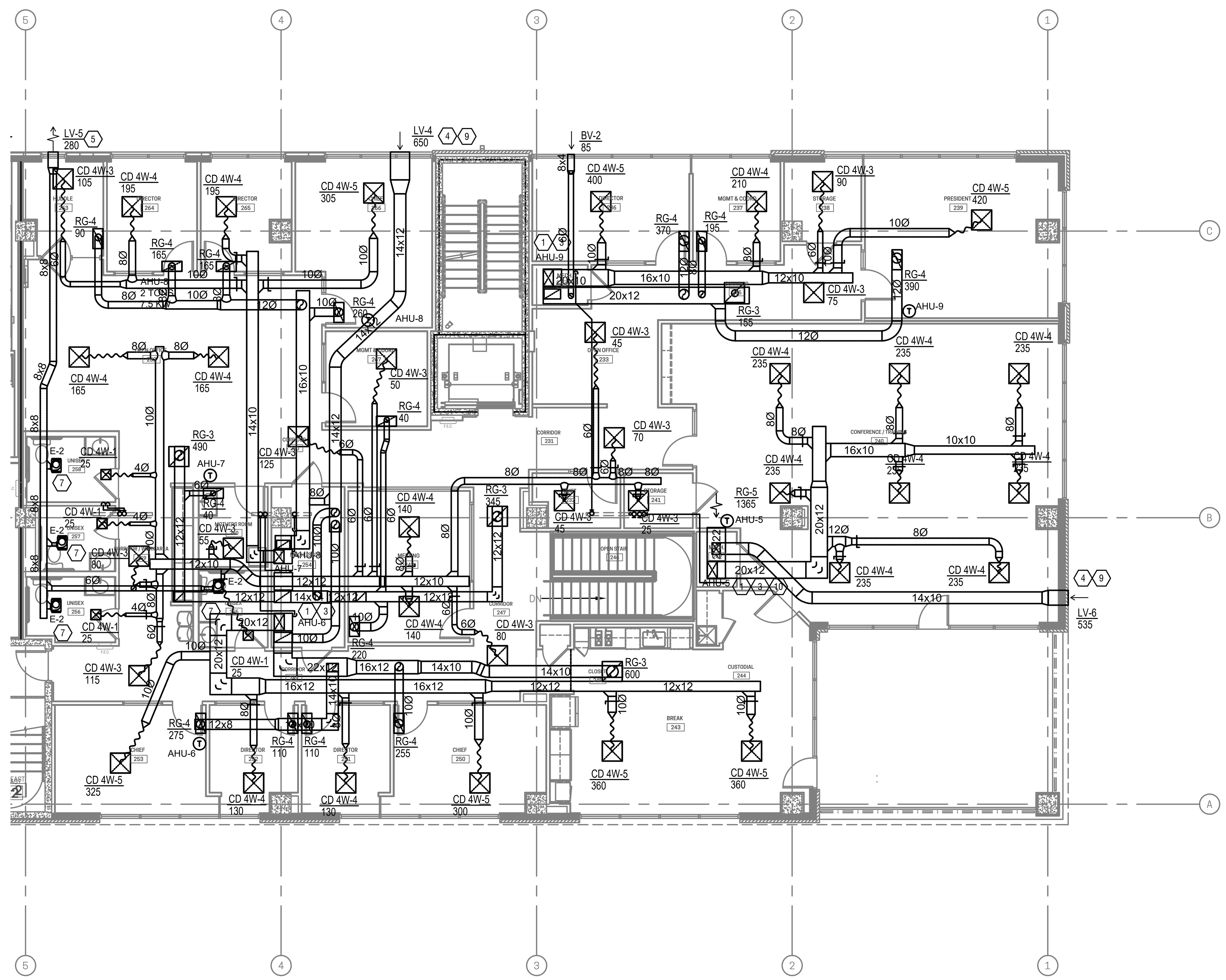
M1
1/8"=1'-0"
TI OFFICE FIRST FLOOR

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M2

TI OFFICE SECOND FLOOR

1/8"=1'-0"

MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY) TENANT FITOUT

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PARAMOUNT WORKS

NWC KEMPER LANE & E. McMILLAN ST
2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

COORDINATION CHANGES

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PR-10535

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STATE OF OHIO
SCOTT SEVERT STILKEY
E-77755
REGISTERED PROFESSIONAL ENGINEER

Drawing Title

MECHANICAL TI OFFICE PLANS

Document No.

TI-M101

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MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY) TENANT FITOUT

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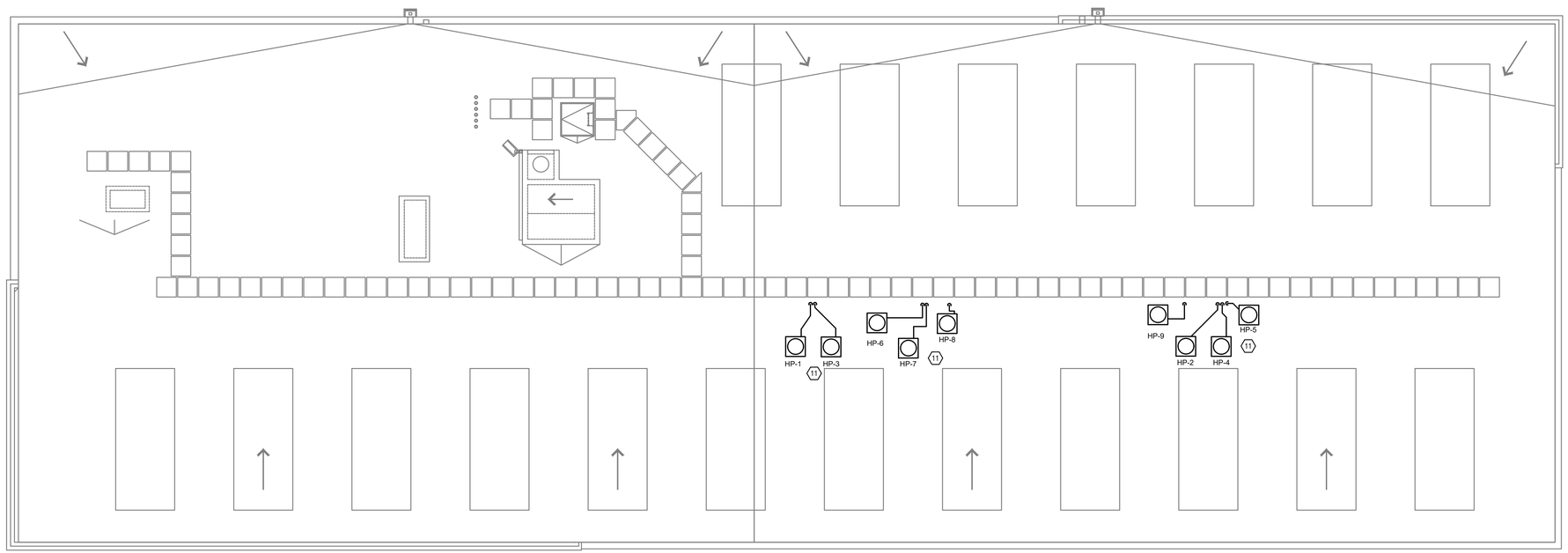
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M106 **MECHANICAL ROOF PLAN** N

1/8"=1'-0"

PARAMOUNT WORKS

NWC KEMPER LANE & E. McMILLAN ST
2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

COORDINATION CHANGES

No.	Issuances / Revisions / Submissions	Date
	PRICING/PERMIT ISSUANCE	02.26.2024

PR-10535

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STATE OF OHIO
SCOTT SEVERT STILKEY
E-77795
REGISTERED PROFESSIONAL ENGINEER

Drawing Title
MECHANICAL ROOF PLAN

Document No.
T.I-M106

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T.I. 1ST AND 2ND FLOOR SPLIT SYSTEM SCHEDULE

Outdoor Unit Tag	Model	Volts	Phase	MCA 208	MOCP	Outdoor Unit Weight	Indoor Unit Tag	Indoor Coil	ESP	Air Flow CFM	Cool Cap Total	Cool Cap Sens	SEER 2	EER 2	Htg Cap 47 deg	Htg Cap 17 deg	HSPF 2	Elec Heat Model	Elec Heat KW	Elec Heat KW (208)	208 MCA	230 MCA	MOCP 208	MOCP 230	Indoor Unit Weight	Notes
				Amps	Amps	lb			in wg.	cfm	Btuh	Btuh			Btuh	Btuh			KW	KW	Amps	Amps	Amps	Amps	lb	
HP-1	N4H5S42AKAAA	208/230	1	24.7	40	221	AHU-1 (15KW)	FJMA4X42	0.50	1440	40000	31670	14.3	12	42000	26000	7.5	EHC15BKB1	15	11.3	52.1,22.3	56.9,24.6	60,25	60,25	170	
HP-2	N4H5S48AKAAA	208/230	1	32.8	50	228	AHU-2 (20KW)	FJMA4X48	0.50	1760	46000	37850	14.3	12	46500	29000	7.5	EHC20BKB1	20	15	52.1,44.5	56.9,49.3	60,45	60,50	186	
HP-3	N4H5S36AKAAA	208/230	1	20.3	30	178	AHU-3 (15KW)	FJMA4X36	0.50	1207	34200	26400	14.3	12	34000	20400	7.5	EHC15BKB1	15	11.3	52.1,22.3	56.9,24.6	60,25	60,25	152	
HP-4	N4H5S60AKAAA	208/230	1	33.2	50	260	AHU-4 (20KW)	FJMA4X60	0.50	1967	57000	44280	14.3	12	5700	35800	7.5	EHC20BKB1	20	15	52.1,44.5	56.9,49.3	60,45	60,50	214	
HP-5	N4H5S60AKAAA	208/230	1	33.2	50	260	AHU-5 (24KW)	FJMA4X60	0.50	1967	57000	44280	14.3	12	5700	35800	7.5	EHC25BHCF1	24	16	116.9	127.9	125	150	214	
HP-6	N4H5S48AKAAA	208/230	1	32.8	50	228	AHU-6 (15KW)	FJMA4X48	0.50	1760	46000	37850	14.3	12	46500	29000	7.5	EHC15BKB1	15	11.3	52.1,22.3	56.9,24.6	60,25	60,25	186	
HP-7	N4H5S42AKAAA	208/230	1	24.7	40	221	AHU-7 (15KW)	FJMA4X42	0.50	1440	40000	31670	14.3	12	42000	26000	7.5	EHC15BKB1	15	11.3	52.1,22.3	56.9,24.6	60,25	60,25	170	
HP-8	N4H5S24AKAAA	208/230	1	14.5	25	159	AHU-8 (8KW)	FJMA4X24	0.50	876	23600	18690	15.2	12.5	23600	14400	7.5	EHC07BKB1	8	6	43.3	47	45	50	135	
HP-9	N4H5S36AKAAA	208/230	1	20.3	30	178	AHU-9 (10KW)	FJMA4X36	0.50	1207	34200	26400	14.3	12	34000	20400	7.5	EHC10BKB1	10	7.5	53.8	58.5	60	60	152	

1 Adjustable Support Feet
2 Hard Start Kit (Capacitor and Relay
3 Crankcase Heater for Scroll Compressor
4 Low Ambient Isolation Relay Kit
5 Low Ambient Pressure Switch

TENANT FITOUT FAN SCHEDULE

TAG	TYPE	AREA SERVED	MANUFACTURER	MODEL	DRIVE	CFM	ESP	WATTS	AMPS (MCA)	AMPS (MOP)	RPM	VOLT/PHASE	MOUNTING	WEIGHT	NOTES
E-1	EXHAUST	REFER TO DRAWINGS	GREENHECK	SP-A200	DIRECT	140	0.25	43	0.6	15	840	115/60/1	CEILING	24	1
E-2	EXHAUST	REFER TO DRAWINGS	GREENHECK	SP-B80	DIRECT	70	0.25	18			900	115/60/1	CEILING	9	1

1. FAN TO BE OPERATED ON A WALL SWITCH (PROVIDED BY ELECTRICAL CONTRACTOR).

Ventilation Schedule For PARAMOUNT COMMONS T.I TENANT FITOUT AHU-1 (OMC 2017)

Room # and Name	Occupancy Type	Area Outdoor Air: Area (ft2) Az	Rate (cfm/ft2) Ra	Total (cfm) Ra*Az	People Outdoor Air: Occupant Density per 1000 sf	Actual People Pz	Rate (cfm/per) Rp	Total (cfm) Rp*Pz	Breathing Zone Outdoor Airflow (cfm) Vbz=Rp*Pz+Ra*Az	Zone Air Distribution ffectivenes Ez	Zone Airflow (cfm) Voz	Supply Airflow (cfm)	OA/SA Ratio (%)	Exhaust Airflow (cfm)
CONFERENCE 151	Conference/Meeting	380	0.06	22.8	50	12	5	60	82.8	0.8	104	620	16.8	0
CORRDIOR 154	Corridor	376	0.06	22.56	0	0	0	0	22.56	0.8	28	180	15.6	0
HUDDLE 150	Office Space	67	0.06	4.02	5	2	5	10	14.02	0.8	18	65	27.7	0
OPEN OFFICE 148	Office Space	155	0.06	9.3	5	2	5	10	19.3	0.8	24	250	9.6	0
WORK COPY 152	Office Space	170	0.06	10.2	5	2	5	10	20.2	0.8	25	100	25	0
MEN 161	Toilet room - public	140	0	0	0	0	0	0	0	0.8	0	110	0	140
WOMEN 162	Toilet room - public	140	0	0	0	0	0	0	0	0.8	0	110	0	140
Total		1428				18					199	1435	94.7	280

RESTROOMS EXHAUST 70 CFM PER FLUSHABLE FIXTURE.

Ventilation Schedule For PARAMOUNT COMMONS T.I TENANT FITOUT AHU-2 (OMC 2017)

Room # and Name	Occupancy Type	Area Outdoor Air: Area (ft2) Az	Rate (cfm/ft2) Ra	Total (cfm) Ra*Az	People Outdoor Air: Occupant Density per 1000 sf	Actual People Pz	Rate (cfm/per) Rp	Total (cfm) Rp*Pz	Breathing Zone Outdoor Airflow (cfm) Vbz=Rp*Pz+Ra*Az	Zone Air Distribution ffectivenes Ez	Zone Airflow (cfm) Voz	Supply Airflow (cfm)	OA/SA Ratio (%)	Exhaust Airflow (cfm)
BEHAV. HEALTH 139	Office Space	100	0.06	6	5	12	5	60	66	0.8	83	90	92.2	0
CHIEF 143	Office Space	162	0.06	9.72	5	0	5	0	9.72	0.8	12	360	3.3	0
CORRIDOR OPEN OFFICE 142	Corridor	368	0.06	22.08	0	2	0	0	22.08	0.8	28	180	15.6	0
DIRECTOR 144	Office Space	109	0.06	6.54	5	2	5	10	16.54	0.8	21	135	15.6	0
DIRECTIOR 145	Office Space	109	0.06	6.54	5	2	5	10	16.54	0.8	21	135	15.6	0
MGMT & COORD	Office Space	86	0.06	5.16	5	0	5	0	5.16	0.8	6	90	6.7	140
OPEN OFFICE142	Office Space	292	0.06	17.52	5	0	5	0	17.52	0.8	22	180	12.2	140
OPEN OFFICE 147	Office Space	148	0.06	8.88	5	0	5	0	8.88	0.8	11	360	3.1	140
Total		1374				18					204	1530	164.3	420

RESTROOMS EXHAUST 70 CFM PER FLUSHABLE FIXTURE.

Ventilation Schedule For PARAMOUNT COMMONS T.I TENANT FITOUT AHU-3 (OMC 2017)

Room # and Name	Occupancy Type	Area Outdoor Air: Area (ft2) Az	Rate (cfm/ft2) Ra	Total (cfm) Ra*Az	People Outdoor Air: Occupant Density per 1000 sf	Actual People Pz	Rate (cfm/per) Rp	Total (cfm) Rp*Pz	Breathing Zone Outdoor Airflow (cfm) Vbz=Rp*Pz+Ra*Az	Zone Air Distribution ffectivenes Ez	Zone Airflow (cfm) Voz	Supply Airflow (cfm)	OA/SA Ratio (%)	Exhaust Airflow (cfm)
BREAK 133	Office Space	121	0.06	7.26	5	4	5	20	27.26	0.8	34	90	37.8	0
COMPUTER LAB 140	Office Space	253	0.06	15.18	5	7	5	35	50.18	0.8	63	360	17.5	0
CORRIDOR 156	Corridor	237	0.06	14.22	0	0	0	0	14.22	0.8	18	180	10	0
CORRIDOR 164	Corridor	103	0.06	6.18	0	0	0	0	6.18	0.8	8	135	5.9	0
DIRECTOR 165	Office Space	121	0.06	7.26	5	2	5	10	17.26	0.8	22	135	16.3	0
HUDDLE 157	Office Space	83	0.06	4.98	5	4	5	20	24.98	0.8	31	90	34.4	140
HUDDLE 158	Office Space	77	0.06	4.62	5	4	5	20	24.62	0.8	31	180	17.2	140
HUDDLE 159	Office Space	80	0.06	4.8	5	4	5	20	24.8	0.8	31	180	17.2	140
QUIET 163	Office Space	39	0.06	2.34	5	1	5	5	7.34	0.8	9	180	5	140
RECEPTION 133	Reception Areas	178	0.06	10.68	30	1	5	5	15.68	0.8	20	180	11.1	140
STORAGE 167	Storage rooms	140	0.12	16.8	0	0	0	0	16.8	0.8	21	360	5.8	140
Total		1432				27					288	2070	178.2	840

RESTROOMS EXHAUST 70 CFM PER FLUSHABLE FIXTURE.

Ventilation Schedule For PARAMOUNT COMMONS T.I TENANT FITOUT AHU-4 (OMC 2017)

Room # and Name	Occupancy Type	Area Outdoor Air: Area (ft2) Az	Rate (cfm/ft2) Ra	Total (cfm) Ra*Az	People Outdoor Air: Occupant Density per 1000 sf	Actual People Pz	Rate (cfm/per) Rp	Total (cfm) Rp*Pz	Breathing Zone Outdoor Airflow (cfm) Vbz=Rp*Pz+Ra*Az	Zone Air Distribution ffectivenes Ez	Zone Airflow (cfm) Voz	Supply Airflow (cfm)	OA/SA Ratio (%)	Exhaust Airflow (cfm)
CORRIDOR 138	Corridor	97	0.06	5.82	0	0	0	0	5.82	0.8	7	50	14	0
LOBBY 132	Main Entry Lobbies	300	0.06	18	4	0	5	0	18	0.8	23	300	7.7	0
MEMBER CLASSROOM 137	Conference/Meeting	400	0.06	24	14	2	5	10	34	0.8	43	820	5.2	0
PHOENIX 136	Office Space	62	0.06	3.72	4	2	5	10	13.72	0.8	17	240	7.1	0
SITTING 135	Office Space	61	0.06	3.66	4	2	5	10	13.66	0.8	17	240	7.1	0
STORAGE 137	Storage rooms	22	0.12	2.64	0	0	0	0	2.64	0.8	3	25	12	140
VESTIBULE 131	Corridor	64	0.06	3.84	0	0	0	0	3.84	0.8	5	210	2.4	140
Total		1006				6					115	1885	55.5	280

RESTROOMS EXHAUST 70 CFM PER FLUSHABLE FIXTURE.

Ventilation Schedule For PARAMOUNT COMMONS T.I TENANT FITOUT AHU-5 (OMC 2017)

Room # and Name	Occupancy Type	Area Outdoor Air: Area (ft2) Az	Rate (cfm/ft2) Ra	Total (cfm) Ra*Az	People Outdoor Air: Occupant Density per 1000 sf	Actual People Pz	Rate (cfm/per) Rp	Total (cfm) Rp*Pz	Breathing Zone Outdoor Airflow (cfm) Vbz=Rp*Pz+Ra*Az	Zone Air Distribution ffectivenes Ez	Zone Airflow (cfm) Voz	Supply Airflow (cfm)	OA/SA Ratio (%)	Exhaust Airflow (cfm)
CONFERENCE/TRAINING 240	Conference/Meeting	1060	0.06	63.6	50	73	5	365	428.6	0.8	536	1900	28.2	0
Total		1060				73					536	1900	28.2	0

RESTROOMS EXHAUST 70 CFM PER FLUSHABLE FIXTURE.

Ventilation Schedule For PARAMOUNT COMMONS T.I TENANT FITOUT AHU-6 (OMC 2017)

Room # and Name	Occupancy Type	Area Outdoor Air: Area (ft2) Az	Rate (cfm/ft2) Ra	Total (cfm) Ra*Az	People Outdoor Air: Occupant Density per 1000 sf	Actual People Pz	Rate (cfm/per) Rp	Total (cfm) Rp*Pz	Breathing Zone Outdoor Airflow (cfm) Vbz=Rp*Pz+Ra*Az	Zone Air Distribution ffectivenes Ez	Zone Airflow (cfm) Voz	Supply Airflow (cfm)	OA/SA Ratio (%)	Exhaust Airflow (cfm)
BREAK 243	Office Space	480	0.06	28.8	5	20	5	100	128.8	0.8	161	720	22.4	0
CHIEF 250	Office Space	160	0.06	9.6	5	1	5	5	14.6	0.8	18	300	6	0
CHIEF 253	Office Space	166	0.06	9.96	5	1	5	5	14.96	0.8	19	325	5.8	0
DIRECTOR 251	Office Space	94	0.06	5.64	5	1	5	5	10.64	0.8	13	130	10	0
DIRECTOR 252	Office Space	88	0.06	5.28	5	1	5	5	10.28	0.8	13	130	10	0
Total		988				24					224	1605	54.2	0

RESTROOMS EXHAUST 70 CFM PER FLUSHABLE FIXTURE.

Ventilation Schedule For PARAMOUNT COMMONS T.I TENANT FITOUT AHU-7 (OMC 2017)

Room # and Name	Occupancy Type	Area Outdoor Air: Area (ft2) Az	Rate (cfm/ft2) Ra	Total (cfm) Ra*Az	People Outdoor Air: Occupant Density per 1000 sf	Actual People Pz	Rate (cfm/per) Rp	Total (cfm) Rp*Pz	Breathing Zone Outdoor Airflow (cfm) Vbz=Rp*Pz+Ra*Az	Zone Air Distribution ffectivenes Ez	Zone Airflow (cfm) Voz	Supply Airflow (cfm)	OA/SA Ratio (%)	Exhaust Airflow (cfm)
CORRIDOR 231	Corridor	143	0.06	8.58	0	0	0	0	8.58	0.8	11	70	15.7	0
CORRIDOR 247	Corridor	159	0.06	9.54	0	0	0	0	9.54	0.8	12	80	15	0
CORRIDOR 249	Corridor	225	0.06	13.5	0	0	0	0	13.5	0.8	17	115	14.8	0
CORRIDOR 260	Corridor	250	0.06	15	0	0	0	0	15	0.8	19	125	15.2	0
CORRIDOR/WORK AREA 259	Corridor	159	0.06	9.54	0	0	0	0	9.54	0.8	12	80	15	0
MEETING 248	Office Space	184	0.06	11.04	5	8	5	40	51.04	0.8	64	280	22.9	0
MGMT&COORD 267	Office Space	97	0.06	5.82	5	1	5	5	10.82	0.8	14	50	28	0
MOTHERS ROOM 260	Office Space	56	0.06	3.36	5	1	5	5	8.36	0.8	10	55	18.2	0
OPEN OFFICE 238	Office Space	72	0.06	4.32	5	1	5	5	9.32	0.8	12	45	26.7	0
OPEN OFFICE 262	Office Space	409	0.06	24.54	5	8	5	40	64.54	0.8	81	330	24.5	0
QUIET 232	Office Space	44	0.06	2.64	5	1	5	5	7.64	0.8	10	45	22.2	0
STORAGE 241	Storage rooms	38	0.12	4.56	0	0	0	0	4.56	0.8	6	25	24	0
UNISEX 255	Toilet room - public	53	0	0	0	0	0	0	0	0.8	0	25	0	70
UNISEX 256	Toilet room - public	57	0	0	0	0	0	0	0	0.8	0	25	0	70
UNISEX 257	Toilet room - public	50	0	0	0	0	0	0	0	0.8	0	25	0	70
UNISEX 258	Toilet room - public	58	0	0	0	0	0	0	0	0.8	0	25	0	70
Total		2054				20					268	1400	242.2	280

RESTROOMS EXHAUST 70 CFM PER FLUSHABLE FIXTURE.

Ventilation Schedule For PARAMOUNT COMMONS T.I TENANT FITOUT AHU-8 (OMC 2017)

Room # and Name	Occupancy Type	Area Outdoor Air: Area (ft2) Az	Rate (cfm/ft2) Ra	Total (cfm) Ra*Az	People Outdoor Air: Occupant Density per 1000 sf	Actual People Pz	Rate (cfm/per) Rp	Total (cfm) Rp*Pz	Breathing Zone Outdoor Airflow (cfm) Vbz=Rp*Pz+Ra*Az	Zone Air Distribution ffectivenes Ez	Zone Airflow (cfm) Voz	Supply Airflow (cfm)	OA/SA Ratio (%)	Exhaust Airflow (cfm)
CHIEF 266	Office Space	210	0.06	12.6	5	2	5	10	22.6	0.8	28	305	9.2	0
DIRECTOR 264	Office Space	100	0.06	6	5	1	5	5	11	0.8	14	195	7.2	0
DIRECTOR 265	Office Space	94	0.06	5.64	5	1	5	5	10.64	0.8	13	195	6.7	0
HUDDLE 263	Office Space	70	0.06	4.2	5	4	5	20	24.2	0.8	30	105	28.6	0
Total		474				8					85	800	51.7	0

RESTROOMS EXHAUST 70 CFM PER FLUSHABLE FIXTURE.

Ventilation Schedule For PARAMOUNT COMMONS T.I TENANT FITOUT AHU-9 (OMC 2017)

Room # and Name	Occupancy Type	Area Outdoor Air: Area (ft2) Az	Rate (cfm/ft2) Ra	Total (cfm) Ra*Az	People Outdoor Air: Occupant Density per 1000 sf	Actual People Pz	Rate (cfm/per) Rp	Total (cfm) Rp*Pz	Breathing Zone Outdoor Airflow (cfm) Vbz=Rp*Pz+Ra*Az	Zone Air Distribution ffectivenes Ez	Zone Airflow (cfm) Voz	Supply Airflow (cfm)	OA/SA Ratio (%)	Exhaust Airflow (cfm)
CORRIDOR 235	Corridor	163	0.06	9.78	0	0	0	0	9.78	0.8	12	75	16	0
DIRECTOR 236	Office Space	162	0.06	9.72	5	1	5	5	14.72	0.8	18	400	4.5	0
MGMT&COORD 237	Office Space	90	0.06	5.4	5	1	5	5	10.4	0.8	13	210	6.2	0
PRESIDENT 239	Office Space	306	0.06	18.36	5	2	5	10	28.36	0.8	35	420	8.3	0
STORAGE 238	Storage rooms	59	0.12	7.08	0	0	0	0	7.08	0.8	9	90	10	0
Total		780				4					87	1195	45	0

RESTROOMS EXHAUST 70 CFM PER FLUSHABLE FIXTURE.

DIFFUSER, GRILLE, AND REGISTER SCHEDULE

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTES
BV-2	ALUMINUM BRICK VENT (THREE BRICK), 4" STANDARD DEPTH, MESH ALUMINUM INSECT SCREEN STANDARD.	8x7 1/2	8x7 1/2	HART AND COOLEY/ BV808	SATIN ANODIZED FINISH
CD 4W-1	4-WAY THREE CONE DIFFUSER	12x12	6Ø	TITUS TMS	REMOVABLE CORE FROM FACE OF DIFFUSER. INSULATE BACK OF DIFFUSER.
CD 4W-3	4-WAY THREE CONE DIFFUSER	24x24	6Ø	TITUS TMS	REMOVABLE CORE FROM FACE OF DIFFUSER. INSULATE BACK OF DIFFUSER.
CD 4W-4	4-WAY THREE CONE DIFFUSER	24x24	8Ø	TITUS TMS	REMOVABLE CORE FROM FACE OF DIFFUSER. INSULATE BACK OF DIFFUSER.
CD 4W-5	4-WAY THREE CONE DIFFUSER	24x24	10Ø	TITUS TMS	REMOVABLE CORE FROM FACE OF DIFFUSER. INSULATE BACK OF DIFFUSER.
IV-1	ALUMINUM EXTERIOR RETURN GRILLE HVAC SIDEWALL-OUTSIDE AIR LOUVER WATERPROOF & RAIN BLOCK.	8x8	8x8	LAMINAIRE	PROVIDE BACK DRAFT DAMPER
LV-1	DRYER WALL VENT, 26 GAUGE GALVANIZED/ POWDER COATED STEEL BODY, RUBBER BUMPERS AND INTRUSION PREVENTION MAGNETS.	6x6	4Ø	DRYERWALLVENT/ DWV4	COORDINATE COLOR WITH ARCHITECT/OWNER. PROVIDE BACK DRAFT DAMPER
LV-2	EXTRUDED ALUMINUM STATIONARY LOUVER	12x12	12x12	RUSKIN ELF375DX	ALUMINUM BIRSCREEN
LV-3	DRYER WALL VENT, 26 GAUGE GALVANIZED/ POWDER COATED STEEL BODY, RUBBER BUMPERS AND INTRUSION PREVENTION MAGNETS.	8 1/2x8 1/2	6Ø	DRYERWALLVENT/ 6WVW	COORDINATE COLOR WITH ARCHITECT/OWNER. PROVIDE BACK DRAFT DAMPER
LV-4	EXTRUDED ALUMINUM STATIONARY LOUVER. DUAL DRAINABLE BLADE.	23x12	23x12	POTTORFF EDD-445	ALUMINUM BIRSCREEN. 4IN DEEP
LV-5	EXTRUDED ALUMINUM STATIONARY LOUVER. DUAL DRAINABLE BLADE.	12x12	12x12	POTTORFF EDD-445	ALUMINUM BIRSCREEN
LV-6	EXTRUDED ALUMINUM STATIONARY LOUVER. DUAL DRAINABLE BLADE.	18x12	18x12	POTTORFF EDD-445	ALUMINUM BIRSCREEN. 4IN DEEP
RG-1	STEEL/ALUMINUM RETURN GRILLE WITH 1/2" FIN SPACING	20x14	20x14	HART AND COOLEY 672	#26 WHITE FINISH.
RG-3	EGGCRATE RETURN GRILLE	24x24	22x22	TITUS 50F	#26 WHITE FINISH.
RG-4	EGGCRATE RETURN GRILLE	12x24	10x22	TITUS 50F	#26 WHITE FINISH.
RG-5	STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	22x22	20x20	TITUS 350RL	#26 WHITE FINISH.
RR-1	STEEL/ALUMINUM RETURN GRILLE, 1/2" BLADE SPACING	8x8	6x6	HART AND COOLEY 672	STEEL OPPOSED-BLADE DAMPER OPERABLE FROM THE FACE OF THE GRILLE.
RR-2	STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	14x8	12x6	TITUS 350RL	STEEL OPPOSED-BLADE DAMPER OPERABLE FROM THE FACE OF THE GRILLE.
SR-1	ALUMINUM STRAIGHT BLADE, VERTICAL FIN REGISTER	12x4	12x4	HART AND COOLEY A618	STEEL OPPOSED-BLADE DAMPER OPERABLE FROM THE FACE OF THE GRILLE.

10535 PARAMOUNT COMMONS T.I FITOUT

NOTES FOR ALL AIR DEVICES:
1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR MOUNTING TYPE
2. DUCT RUN-OUT SAME SIZE AS NECK UNLESS NOTED OTHERWISE
3. PLASTER FRAME WHERE LOCATED IN GYPSUM CEILING
4. PAINT DUCTWORK THAT IS VISIBLE BEHIND AIR DEVICES MATTE BLACK
5. AIR DEVICES SHALL BE ALUMINUM IN HIGH MOISTURE AREAS. (RESTROOMS)
6. WHERE AIR DEVICES ARE LOCATED IN A FIRE RATED ASSEMBLY, PROVIDE CEILING RADIATION DAMPERS, FIRE DAMPER, FIRE RATED INSULATION, AS REQUIRED PER CODE.
7. PROVIDE SAMPLE AIR DEVICES STYLE AND COLOR, FOR OWNER'S REPRESENTATIVE APPROVAL, BEFORE ORDERING FINAL AIR DEVICES.
8. ADD INSULATION TO THE BACK OF ALL AIR DEVICES WHERE DUCTWORK ALSO REQUIRES INSULATION.

DUCT INSULATION SCHEDULE FOR T.I FITOUT

AIR DISTRIBUTION TYPE	EQUIPMENT TAGS: AHU-1	AHU-2	AHU-3	AHU-4	AHU-5	AHU-6	AHU-7	AHU-8	AHU-9
SA	R-3.5	R-3.5	R-3.5	R-3.5	R-3.5	R-3.5	R-3.5	R-3.5	R-3.5
RA	-	-	-	-	-	-	-	-	-
OA	R-3.5	R-3.5	R-3.5	R-3.5	R-3.5	R-3.5	R-3.5	R-3.5	R-3.5

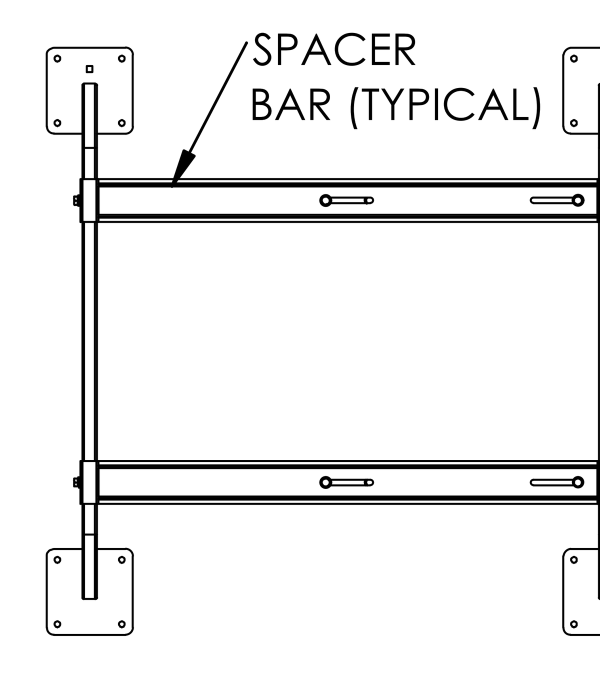
DUCT INSULATION REQUIREMENTS ARE BASED ON TABLE 6.8.2B OF ASHRAE 90.1 2010 ENERGY CODE.

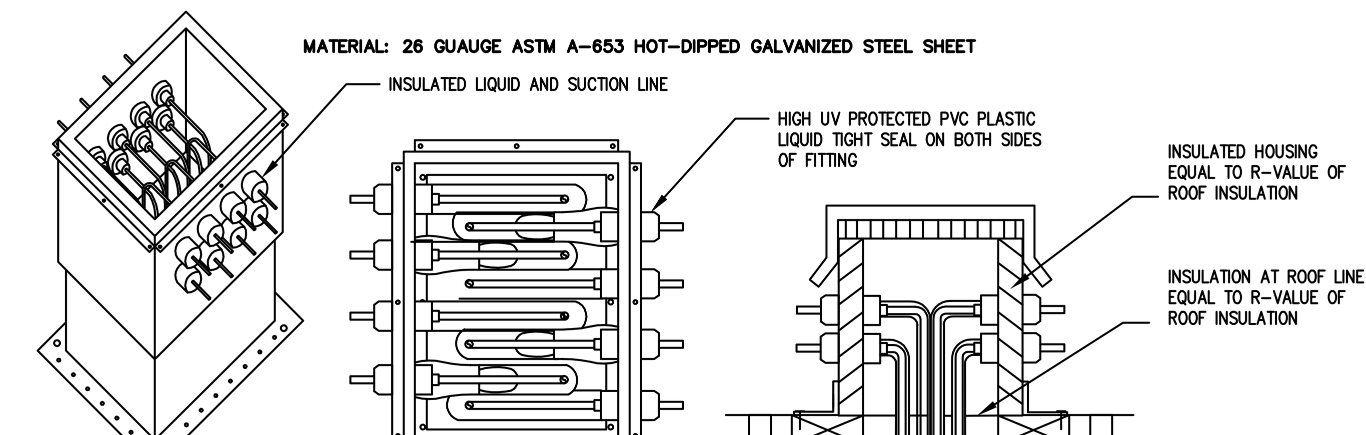
PROVIDE DUCTWORK OF SUFFICIENT THICKNESS TO MEET THE INSTALLED R-VALUE REQUIREMENTS LISTED ABOVE.

ITEMS NOT REQUIRED TO BE INSULATED: FIBROUS-GLASS DUCTS, DUCTS WITH LINER THAT MEETS ASHRAE 90.1, FACTORY-INSULATED FLEXIBLE DUCTS, FACTORY-INSULATED PLENUMS AND CASINGS, FLEX CONNECTORS, VIBRATION-CONTROL DEVICES, FACTORY-INSULATED ACCESS PANELS AND DOORS.

BUILDING AIR BALANCE SUMMARY T.I FITOUT

	AHU-1	AHU-2	AHU-3	AHU-4	AHU-5	AHU-6	AHU-7	AHU-8	AHU-9	E-1	E-2	TOTAL
OUTSIDE AIR	199	204	288	115	536	224	268	85	87			2006
EXHAUST AIR	0	0	0	0	0	0	0	0	0	280	330	610
												1396 POSITIVE





LINE SET ROOF CURB DETAIL

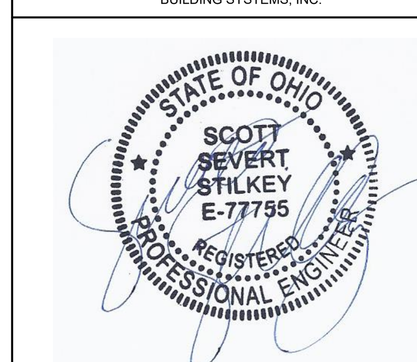
NOT TO SCALE

PARAMOUNT WORKS

NWC KEMPER LANE & E. McMILLAN ST
2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

No.	Issuances / Revisions / Submissions	Date
	PRICING/PERMIT ISSUANCE	02.23.2024

PR-10535
ENGINEERED BUILDING SYSTEMS INC.
Shared Success Through Collaboration and Efficiency
515 Monmouth Street, Suite 201
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH
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Drawing Title
MECHANICAL DETAILS

Document No.
T.I-M300

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THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREPARED TO DEMONSTRATE COMPLIANCE WITH APPLICABLE CODES, AND ARE INTENDED TO PROVIDE THE AUTHORITIES HAVING JURISDICTION WITH INFORMATION TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS USED IN CONSTRUCTION ARE IN ACCORDANCE WITH ANY CONTRACTURAL AGREEMENT THAT MAY EXIST WITH AN OWNER, CONSTRUCTION MANAGER, GENERAL CONTRACTOR, ETC.
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PLOTTED: Thursday, February 22, 2024 6:07:33 PM

MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY)

BUILDING HAS (65) APARTMENTS. INSTALL (65) ELECTRIC SPLIT SYSTEMS, DUCTWORK AND ALL ASSOCIATED HVAC COMPONENTS TO MAKE EACH APARTMENT A TURNKEY. SOUTH COMMERCIAL RETAIL SPACE WILL BE WHITE BOX SHELL SPACE. PROVIDE DUCTWORK FOR GREASE EXHAUST AND MAKE UP AIR FOR POTENTIAL RESTAURANT FITOUT. NORTH COMMERCIAL SPACE WILL HAVE SPLIT SYSTEMS FOR WHITE BOX FITOUT. MECHANICAL CONTRACTOR SHALL REFERENCE ALL DISCIPLINE DRAWING, ETC. TO REVEAL FULL SCOPE OF WORK. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.

CODES & STANDARDS REFERENCED

- 2017 OHIO MECHANICAL CODE
- 2017 OHIO BUILDING CODE
- ASHRAE 90.1-2010 GOLD

HVAC DESIGN CONDITIONS

COOLING	HEATING
OUTDOOR: 93 DB / 75 WB	OUTDOOR: 0 DB
INDOOR: 72	INDOOR: 70

KEYED SHEET NOTES

1. INSTALL CEILING RADIATION DAMPER. PROVIDE BUTTERFLY DAMPER IN DIFFUSER AND FACE DAMPERS FOR CEILING REGISTERS.
2. ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL CLOSET. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. COORDINATE FLOOR DRAIN LOCATION WITH PLUMBING CONTRACTOR.
3. ROUTE EXHAUST DUCT IN FLOOR JOIST AND OVER TO EXTERIOR WALL. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
   - 3.1. 3' FROM PROPERTY LINE.
   - 3.2. 3' FROM OPERABLE OPENINGS INTO BUILDING.
   - 3.3. 10' FROM MECHANICAL AIR INTAKE
4. ROUTE LINE SET AND CONTROL WIRING FROM INDOOR AIR HANDLER TO OUTDOOR UNIT. ALL PIPING SHALL BE CONCEALED IN FINISHED AREA PROVIDE EZ PULL LINE SET. SIZE PER MANUFACTURES RECOMMENDATIONS. PROVIDE SEAL TIGHT FOR CONTROL WIRING TO HP. CONTROL WIRING NOT TO BE EXPOSED TO ELEMENTS.
5. ROUTE KITCHEN EXHAUST DUCT IN SOFFIT BELOW RATED CEILING TO EXTERIOR WALL. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
   - 5.1. 3' FROM PROPERTY LINE.
   - 5.2. 3' FROM OPERABLE OPENINGS INTO BUILDING
   - 5.3. 10' FROM MECHANICAL AIR INTAKE.
6. UNDERCUT DOOR 1".
7. RUN LINESETS AND CONTROL WIRING IN WALL CAVITY UP TO CURB ON ROOF. STUB LINESETS OUT OF WALL/FLOOR/CURB FOR FUTURE ADD.
8. INSTALL DRYER BOX EQUIVALENT TO DUNDAS JOFINE DRB4XZW.
9. INSTALL RETURN GRILLE ABOVE MECHANICAL CLOSET DOOR. PROVIDE SLEEVE THROUGH WALL TO MOUNT RETURN GRILLE.
10. INSTALL RETURN GRILLE HIGH ON SIDE WALL. COORDINATE FINAL LOCATION WITH OWNER/ARCHITECT.
11. EXHAUST FAN TO BE CONTROLLED BY SWITCH ON WALL.
12. PROVIDE 1HR FIRE DAMPER IN RATED WALL.
13. PROVIDE 16"X16" WELDED GREASE DUCT FOR EXHAUST AND 20"X18" MAKE UP AIR DUCT IN SHAFT FOR FUTURE RESTAURANT. FOLLOW 2017 OHIO MECHANICAL CODE SECTION 506 COMMERCIAL KITCHEN HOOD VENTILATION SYSTEM DUCTS AND EXHAUST EQUIPMENT. EXHAUST DUCT TO BE FIRE WRAPPED AND OUTSIDE AIR DUCT TO BE EXTERNALLY INSULATED.
14. PROVIDE 18"X16" SUPPLY AND 18"X16" RETURN DUCT IN SHAFT FOR FUTURE ROOF TOP UNIT. INSULATE BOTH SUPPLY AND RETURN IN SHAFT. ROUTE DUCT UP SHAFT AND INTO ATTIC. CAP DUCT ONCE IN ATTIC. FUTURE TENANT WILL CONNECT TO DUCT IN ATTIC ONCE FITOUT STARTS. EXTEND SUPPLY AND RETURN THROUGH SHAFT IN TENANT SPACE FOR FUTURE CONNECTION.
15. PROVIDE 24V MOTORIZED DAMPER. TIE MOTORIZED DAMPER IN WITH AIR HANDLER. HANDLER TO SEND 24V WHEN UNIT IS OPERATING.
16. PROVIDE THY CURBS FOR HEAT PUMPS. HEAT PUMPS CAN BE COMBINED ON A SET OF THY CURBS CLOSE TO REFRIGERANT CURB TO REDUCE AMOUNT OF CURBS AND FLASHING ON ROOF. COORDINATE WITH GENERAL CONTRACTOR.

GENERAL NOTES

A. FOR FULL SCHEDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL SHEETS.

B. COORDINATE ROUTING OF ALL WORK WITH OTHER TRADES.

C. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS TO ALL MECHANICAL EQUIPMENT.

D. INSTALL ALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL CODE RECOMMENDED CLEARANCES FOR ACCESS AND MAINTENANCE.

E. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, AND FINAL CEILING DIFFUSER LOCATIONS.

F. MAINTAIN ALL CODE REQUIRED SERVICE CLEARANCES. FOLLOW CLEARANCE TO COMBUSTIBLE DISTANCE PER MANUFACTURER'S INSTRUCTIONS.

G. PROVIDE BACK DRAFT DAMPERS FOR ALL EXHAUST AND OUTSIDE AIR SYSTEMS AND EITHER LOUVER, BRICK VENT, OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS. COORDINATE COLOR AND LOCATION WITH OWNER/ARCHTECT PRIOR TO INSTALLATION.

H. PROVIDE OVERFLOW SWITCH FOR ALL UNITS IN APARTMENTS, WHICH WILL SHUTOFF THE UNIT ON HIGH WATER LEVEL.

I. IN DWELLING UNITS, ROUTE ALL SUPPLY ABOVE RATED CEILING. PROVIDE RADIATION DAMPERS FOR ALL SUPPLY DUCT PENETRATING RATED CEILING. COORDINATE ROUTING WITH ARCHITECTURAL DRAWINGS. KITCHEN EXHAUST DUCTS SHALL BE RUN BELOW THE RATED FLOOR/CEILING.

J. ROUTE ALL AIR CONDITIONER CONDENSATE TO FLOOR DRAIN IN MECHANICAL CLOSET. PROVIDE MINIMUM SLOPE OF 1/8 " PER FOOT. SIZE CONDENSATE PER SECTION 307.2.2 OF THE OHIO MECHANICAL CODE.

K. MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN ADA UNITS 40" ABOVE FINISHED FLOOR.

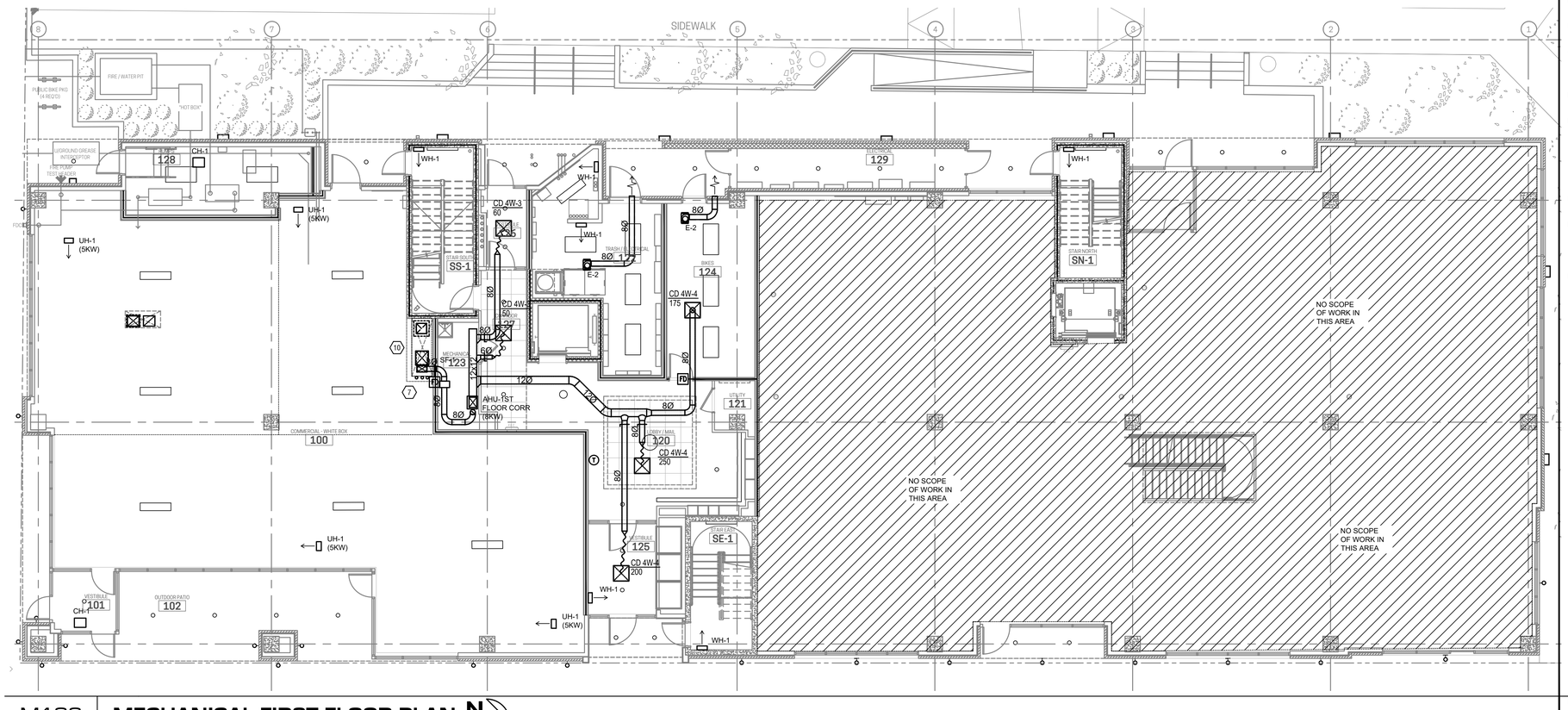
H. PROVIDE AN APPROVED THROUGH PENETRATION FIRESTOP FOR ALL PIPING INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479. FIRESTOP SHALL HAVE A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCHES OF WATER AND SHALL HAVE AN F RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL OR FLOOR PENETRATED.

I. ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE ALL NEW ELECTRICAL AND PLUMBING REQUIREMENTS WITH THE ELECTRICAL AND PLUMBING CONTRACTORS.

J. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABLED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.

J. THE FOLLOWING GUIDELINES MUST BE FOLLOWED FOR THE DOMESTIC DRYER EXHAUST SYSTEMS.
   - J.A. EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE CONSTRUCTED OF METAL A MINIMUM OF 28 GAGE.
   - J.B. DUCT SIZE SHALL BE 4 INCHES NOMINAL DIAMETER.
   - J.C. DUCTS SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING DUCT OR FITTING IN THE DIRECTION OF AIRFLOW.
   - J.D. DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT PENETRATE MORE THAN ¼ INCH INTO THE INSIDE OF THE DUCT.
   - J.E. PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES DRYER EXHAUST DUCT.SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER. SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062 INCHES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES.
   - J.F. TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER THAN 8 FEET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN CONSTRUCTION.
   - J.G. PROVIDE DRYER WALL BOX EQUAL TO DUNDAS JAFINE MODEL DRB4XZW NEAR DRYER. CAP EXHAUST DUCT AT DRYER WALL BOX FOR FUTURE CONNECTION BY XXX.
   - J.H. PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) INDICATING ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH SHALL INCLUDE 5' FOR 90 . LABEL/TAG MUST BE WITHIN 6' OF DRYER EXHAUST CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH SHALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5 FEET FOR A RADIUS MITERED 90-DEGREE ELBOW.
   - J.I. CAP EXHAUST DUCT FOR FUTURE CONNECTION BY TENANT?

K. INDOOR TEMPERATURES SHALL BE CONTROLLED THROUGH THERMOSTAT.



M100 **MECHANICAL FIRST FLOOR PLAN** N

1/8"=1'-0"

PARAMOUNT WORKS

NWC KEMPER LANE & E. McMILLAN ST
2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

No.	Issuances / Revisions / Submissions	Date
	PRICING/PERMIT ISSUANCE	02.26.2024

PR-10535

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Shared Success Through Collaboration and Efficiency
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MEP Consulting Services, Inc. in OH
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STATE OF OHIO
SCOTT SEVERT STILKEY
E-77755
REGISTERED PROFESSIONAL ENGINEER

Drawing Title
MECHANICAL FIRST FLOOR PLAN

Document No.
M100

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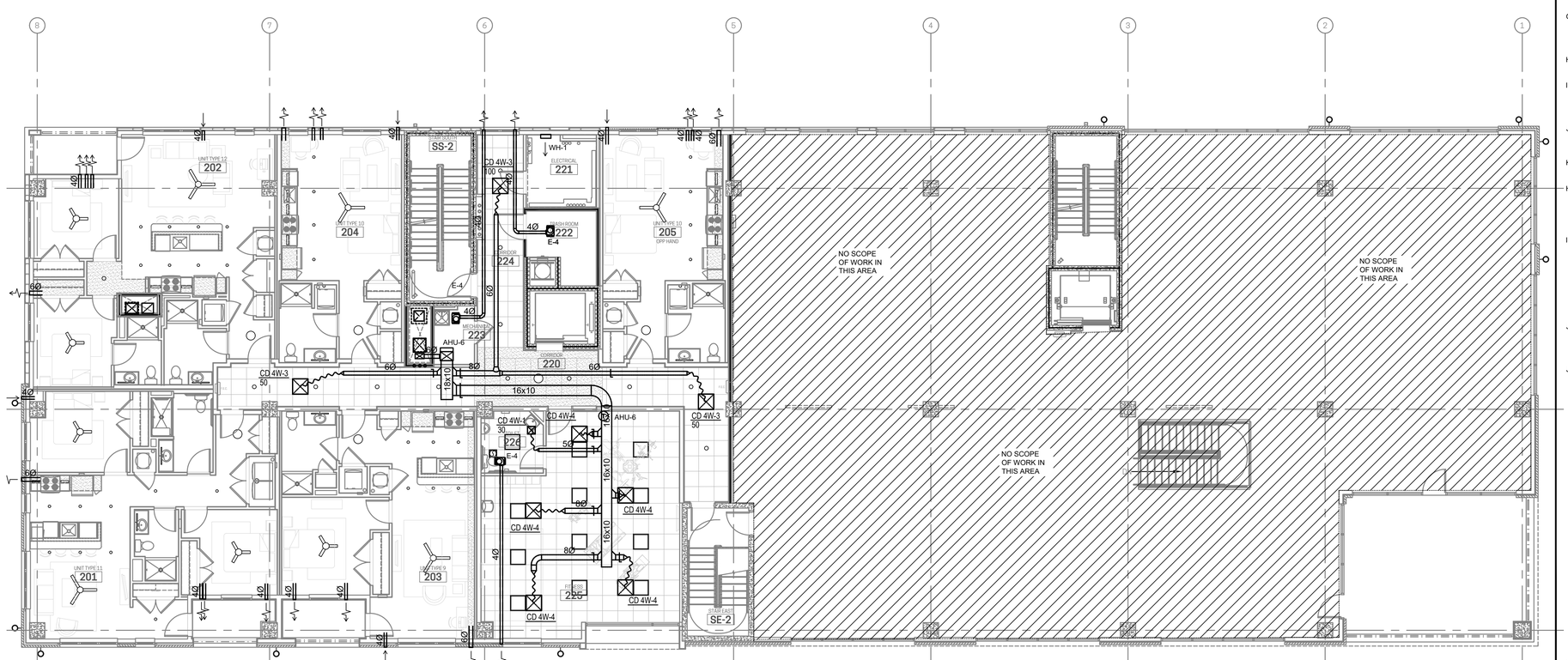
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   - J.C. DUCTS SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING DUCT OR FITTING IN THE DIRECTION OF AIRFLOW.
   - J.D. DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT PROTRUDE MORE THAN ¼ INCH INTO THE INSIDE OF THE DUCT.
   - J.E. PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES DRYER EXHAUST DUCT.SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER. SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062 INCHES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES.
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   - J.G. PROVIDE DRYER WALL BOX EQUAL TO DUNDAS JAFINE MODEL DRB4XZW NEAR DRYER. CAP EXHAUST DUCT AT DRYER WALL BOX FOR FUTURE CONNECTION BY XXX.
   - J.H. PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) INDICATING ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH SHALL INCLUDE 5' FOR 90 . LABEL/TAG MUST BE WITHIN 6' OF DRYER EXHAUST CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH SHALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5 FEET FOR A RADIUS MITERED 90-DEGREE ELBOW.
   - J.I. CAP EXHAUST DUCT FOR FUTURE CONNECTION BY TENANT?

K. INDOOR TEMPERATURES SHALL BE CONTROLLED THROUGH THERMOSTAT.



M101 **MECHANICAL SECOND FLOOR PLAN** N

1/8"=1'-0"

PARAMOUNT WORKS

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