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2 FIRE SUPPRESSION SERVICE, SEE CIVIL DRAWINGS FOR CONTINUATION.

5 4" CONDUIT WITH 1/4" PULL ROPE BELOW GRADE FOR POWER COMPANY

4 (2) 4" CONDUITS BELOW GRADE FOR COMMUNICATIONS SERVICES. PROVIDE PULLSTRING IN EACH RACEWAY. VERIFY EXACT REQUIREMENTS AND

TERMINATION POINT AT PROPERTY LINE WITH LOCAL COMMUNICATIONS ACCESS

PROVIDED PRIMARY CABLING. COORDINATE EXACT ROUTING WITH LOCAL POWER

INSTALL ALL REQUIRED PULL BOXES, JUNCTION BOXES, AND SECTIONALIZERS PROVIDED BY UTILITY COMPANY. COORDINATE RESPONSIBILITIES WITH UTLITY

8 POWER COMPANY PROVIDED PAD MOUNTED UTILITY TRANSFORMER. CONCRETE PAD BY GENERAL CONTRACTOR. COORDINATE EXACT LOCATION AND

ELECTRIC SERVICE EQUIPMENT, SEE RISER DIAGRAM ON SHEET E6.2.

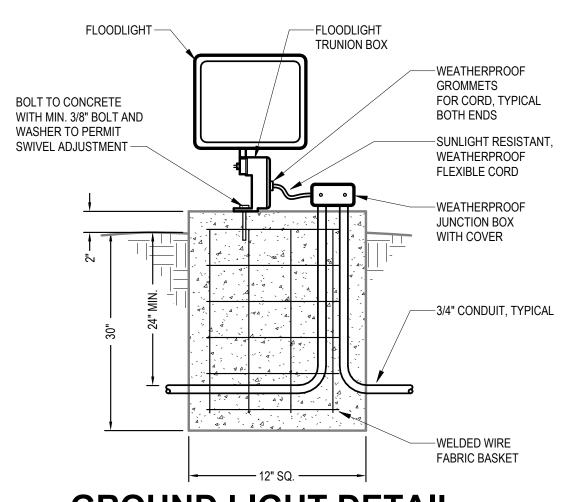
REQUIREMENTS WITH POWER UTILITY COMPANY PRIOR TO COMMENCING WORK.

3 SANITARY SEWER, SEE CIVIL DRAWINGS FOR CONTINUATION.

COMPANY PRIOR TO COMMENCING WORK. 6 POWER COMPANY PROVIDED UTILITY POLE.

SHEET NO .:

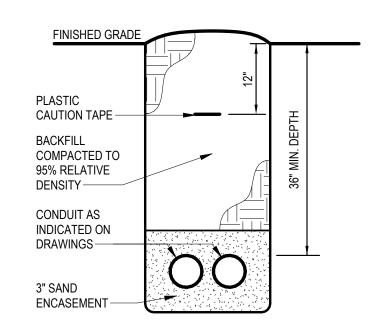
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GROUND LIGHT DETAIL
12" = 1'-0"

PLASTIC CAUTION TAPE —— BACKFILL COMPACTED TO 95% RELATIVE DENSITY ---3" SAND ENCASEMENT — CONDUIT AS INDICATED ON DRAWINGS-

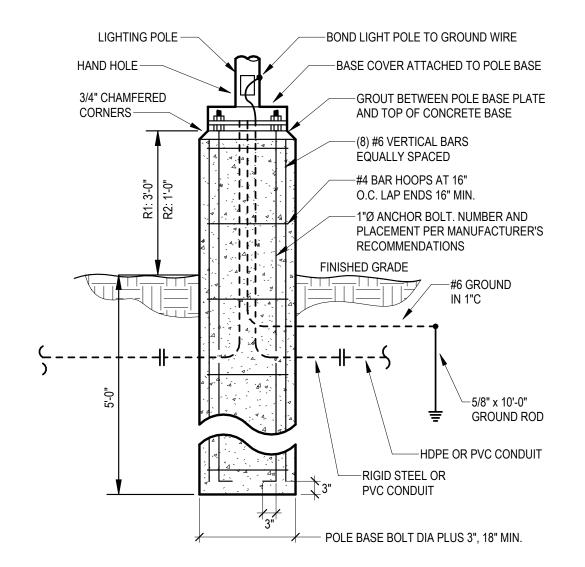
PRIMARY CONDUIT SECTION



SERVICE LATERAL CONDUIT SECTION
NO SCALE

CAUTION TAPE COMPACTED TO 95% RELATIVE DENSITY — CONDUIT AS INDICATED ON DRAWINGS 3" SAND ENCASEMENT-

TELECOMM CONDUIT SECTION
NO SCALE



LIGHT POLE BASE DETAIL
NO SCALE



M/E SITE PLAN
1" = 40'-0"

KW Kilowatt

LTG Lighting

LV

LTNG Lightning

MAX Maximum MAG.S Magnetic Starter M/C Momentary Contact MC Mechanical Contractor

KWH Kilowatt Hour

Light

LOC Locate Or Location

Low Voltage

Number

Center Line

Phase

Plate

Electrical Symbol Legend

Power Symbols

<u>Lighting Symbols</u> Lighting Fixtures, Typical, Rectangular (Various Symbols)

••

Lighting Fixtures, Typical, Round (Various Symbols) Center dot indicates pendant. Chevron indicates wall wash.

Wall-mounted fixtures, Typical $+\square$ (Various Symbols) Strip Fixture

✓ Directional Light, Track Light, Flood Light ---- Linear Light, Tape Light Emergency Lighting Unit, Ceiling-Mounted,

Integral Battery **▶** ■ Emergency Lighting Unit, Ceiling-Mounted, Remote Battery Emergency Lighting Unit, Wall-Mounted,

Integral Battery Emergency Lighting Unit, Wall-Mounted, **** Remote Battery

Exit Light, Ceiling-Mounted. Shading and arrows indicate faces and directional chevrons. Exit Light, Wall-Mounted.

Shading and arrows indicate faces and directional chevrons.

Pole/Area Lights

Post-Top Area Light Bollard Light

Hatch indicates light on an emergency or life safety circuit. Single-Pole Switch

Two-Pole Switch Three-Pole Switch Switch Modifiers: 3: 3-Way 4: 4-Way

OS: Occupancy Sensor VS: Vacancy Sensor K: Keyed CT: Above-Counter D: Dimming LV: Low-Voltage T: Timer M: Motor-Rated Lighting Contactor

Lighting Control Panel OS Occupancy Sensor

(DL) Daylight Harvesting Sensor <u>Lighting Tags</u>

Top Value: Fixture Type ID (<u>Underlined</u>) —Bottom Value, Lowercase Letter: Switch ID -Bottom Value, Number(s): Circuit Number Bottom Value, Uppercase Letter(s): Panel

Absence of a switch designation on a lighting fixture indicates fixture is controlled by the only switch in the space. An "x" in place of the switch designation indicates unswitched.

Switch ID indicated by a lowercase letter. Switch IDs are unique per space. A switch with an ID "a" controls all devices within the space in which it is located tagged with (OS) "a". A switch without a tagged ID controls all lighting fixtures within a space. ID tags may be used on control devices other than switches, such as occupancy sensors or

<u>Miscellaneous</u>

Area Not in Contract Note by Symbol

Top Value: Detail Number on Sheet Bottom Value: Sheet Number of Detail

Room Name and Number

 Duplex Receptacle Quadruplex Receptacle Special Receptacle, Type as Indicated Receptacle Modifiers:

##": Height AFF(to center) CT: Device Mounted Above Counter Top IG: Isolated Ground H: Device Mounted Horizontally WP: Weatherproof In-Use Cover

Half shading indicates split (typically switched) Outside shading indicates tamperproof device Center shading indicates GFI type Full shading indicates tamperproof GFI type

Multioutlet Assembly Filled squares indicate 120V outlet
Open squares indicate with USB ₩ Cord Reel, Device Varies

> Drop Cord, Device Varies (J) Junction Box

F1 Floor Box, see schedule for type Emergency Power Off DO Door Opener Push Plate M Power Meter

□¬ Safety Switch, Unfused Motor Starter

Contactor

Power Device and Equipment Tags Electrical DeviceTags: Uppercase letter(s) indicates LP1A:1 Panel ID and circuit number. Lowercase letter indicates designation of controlling switch (where applicable).

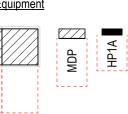
Equipment Tags: Equipment ID is indicated by an underlined tag adjacent to the equipment. See the equipment connection schedule for description, electrical requirements, and panel and circuit number. Symbols/graphic appearance of equipment

Solid, arced lines connecting equipment, devices, or fixtures indicate unswitched power circuiting. Wires are only intended to indicate to what circuit devices are connected. Actual connections, circuit routing, installtion, junction boxes, etc. shall be field-determined by the contractor.

Dashed, arced lines connecting equipment, devices, or fixtures indicate switched power.

Home run to branch circuit panelboard. The equipment name and circuit number(s) are indicated, separated by a hyphen. Homeruns are only intended to indicate panel and circuit number. Actual homerun location shall be field-determined by the contractor.

Power Distribution Equipment



Hatched fill indicates distribution panel or switchboard. Solid fill indicates branch panel or load center.

Dashed box indicates code-required clearance (width and depth). Door indicates front of recessed panel. Devices and fixtures are tagged with Panel and circuit number. For example, a device tagged with "A:1" indicates the device is

circuited to panel designated "A," circuit number 1. Transformer: Typically transformer names begin with T1 or contain the letter "T". See Single-Line Diagram for

description and requirements.

Telecom Symbols

∇
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Data Outlet ▼ Telephone Outlet

→TV TV Outlet

▼ Data/Telephone Outlet Outlet Modifiers: ##": Height AFF (to center) CT: Mounted Above Counter Top Wireless Access Point

Fire Alarm Symbols

P Manual Pull Station

Horn, Wall F Horn, Ceiling

Strobe, Wall, Candela as indicated Strobe, Ceiling, Candela as indicated

Horn/Strobe, Wall, Candela as indicated

Horn/Strobe, Ceiling, Candela as indicated Remote Indicator w/ Test Switch, Wall

Remote Indicate w/ Test Switch, Ceiling Smoke Detector

Smoke Detector Fire Alarm System ⟨↓⟩ Heat Detector Carbon Monoxide Detector

Beam Detector T: Transmitter R: Receiver Combination Detector (Up to Three)

Duct Smoke Detector Smoke Damper DH Door Holder

DCL Door Closer Fire Service Phone XXX Addressible Module

AIM: Addressible Input Module AOM:Addressible Output Control Module AIO: Addressible Input/Output Module XXXX Fire Alarm Control Unit

EVAC: Voice Evacuation Control Panel FAA: Fire Alarm Annunciator FACP: Fire Alarm Control Panel FATC: Fire Alarm Terminal Cabinet NACP: Notification Appliance Circuit Panel FAMN: Fire Alarm Mass Notification Control

XX Supervisory or Interface Device PIV: Post Indicator Valve Supervisory PS: Pressure Switch R: Non-Addressible Relay VS: Valve Supervisory Switch WF: Water Flow Switch

Security Symbols

PTZ: Pan/Tilt/Zoom

⊢CR Card Reader ⊢CK Card Reader with Keypad

Closed Circuit TV Outlet DC Door Contact

ES Electric Strike ⊢IC Intercom ML Magnetic Lock

RX Request to Exit Button REX Request to Exit Sensor

MD Motion Detector XXX Security Control Unit SCP: Security Control Panel

Existing to Remain

SPS: Security Power Supply Unit

(Typical All Symbols and Equipment)

Existing to Be Demolished

GENERAL ELECTRICAL NOTES COORDINATE INSTALLATION OF ELECTRICAL WORK ABOVE THE CEILING TO PROVIDE THE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION OF PLUMBING AND MECHANICAL INSTALLATION. CONDUITS SHALL BE ROUTED THROUGH JOIST WEBS WHERE POSSIBLE. VERIFY EXACT PLACEMENT OF ALL LUMINAIRES, DEVICES, AND EQUIPMENT SHOWN ON THE ELECTRICAL CONSTRUCTION DOCUMENTS WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS PRIOR TO FINAL PLACEMENT. ELECTRICAL EQUIPMENT AND DEVICES SHALL BE "LISTED" AND "IDENTIFIED" AS RATED FOR A MINIMUM OF 75°C CONDUCTOR TERMINATION. DEFINITION OF TERMS ACTION THAT IS REQUIRED WITHOUT OPTION OR QUALIFICATION. "FURNISH": CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING. "INSTALL": CONTRACTOR SHALL BE RESPONSIBLE FOR LABOR AND CONSTRUCTION EQUIPMENT NECESSARY TO SET IN PLACE, CONNECT, CALIBRATE AND TEST EQUIPMENT FURNISHED BY HIM "PROVIDE": CONTRACTOR SHALL FURNISH AND INSTALL. **MOUNTING HEIGHT REQUIREMENTS:** UNLESS SPECIFICALLY INDICATED OTHERWISE, THE FOLLOWING MOUNTING HEIGHTS SHALL APPLY: RECEPTACLES TELECOMMUNICATIONS OUTLETS 16" TO BOTTOM

GENERAL LIGHTING NOTES

LIGHT SWITCHES

FIRE ALARM PULL STATIONS

FIRE ALARM NOTIFICATION DEVICES

THERMOSTATS

HUMIDISTATS

THE CIRCUITING OF ALL LUMINAIRES HAS BEEN SHOWN ON THE PLANS, AND THE CONTRACTOR SHALL FOLLOW THIS CIRCUITING LAYOUT. CIRCUIT ALL EMERGENCY LIGHTS, NIGHT LIGHTS AND EXIT LIGHTS TO AN UNSWITCHED HOT CONDUCTOR, UPSTREAM OF ALL CONTROLS.

48" TO TOP

48" TO TOP

48" TO TOP

48" TO TOP

LOWER OF: 88" TO BOTTOM OR TOP

AT 6" BELOW CEILING

DIRECT CURRENT POWER WIRING FROM EXIT SIGNS TO REMOTE EXTERIOR EMERGENCY LIGHTING HEADS SHALL BE (2) #10 IN 1/2" CONDUIT UNLESS NOTED IN AREAS WHERE CEILING MOUNTED OCCUPANCY SENSORS ARE USED FOR

LIGHTING CONTROL IN CONJUNCTION WITH WALL SWITCHES, OCCUPANCY SENSOR/POWER PACK SHALL SWITCH LEG SHALL BE WIRED IN SERIES WITH WALL SWITCHES TO PROVIDE OVERRIDE "OFF" CONTROL FOR LIGHTS. CONTROL WIRING FOR 0-10 V-dc DIMMING SIGNAL CIRCUITS SHALL BE NEC CLASS 1 ROUTED IN SAME RACEWAY/CABLE WITH LIGHTING CIRCUIT POWER CONDUCTORS. WIRING SHALL CONSIST OF (2) #16 SOLID CU THHN OR TFN CONDUCTORS. CONDUCTOR INSULATION COLOR SHALL BE VIOLET (+ V-dc) AND PINK (- V-dc). WHERE MC-CABLE IS USED FOR FINAL 6' POWER CONNECTION WHIP TO LUMINAIRE, UTILIZE "LUMINARY" TYPE MC-CABLE WITH INTEGRAL CLASS 1 CONTROL WIRING.

GENERAL POWER NOTES

THE CIRCUITING OF ALL DEVICES HAS BEEN SHOWN ON THE PLANS, AND THE CONTRACTOR SHALL FOLLOW THIS CIRCUITING LAYOUT. VERIFY EXACT LOCATIONS OF HVAC AND PLUMBING EQUIPMENT WITH THE GENERAL CONTRACTOR AND ASSOCIATED SUBCONTRACTORS. COORDINATE CONDUIT STUB-UP AND POWER CONNECTIONS PRIOR TO COMMENCING ROUGH-IN WORK. ELECTRICAL DEVICES (DISCONNECTS, RECEPTACLES, ETC.) INSTALLED ON EQUIPMENT SHALL BE MOUNTED ON A NON-REMOVABLE PANEL OF THE EQUIPMENT. FIELD COORDINATE EXACT DEVICE MOUNTING LOCATIONS PRIOR TO INSTALLATION.

WALL MOUNTED HVAC CONTROL DEVICES (THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, CO 2 SENSORS, ETC) SHALL BE PROVIDED BY MECHANICAL CONTRACTOR. UNLESS NOTED OTHERWISE, ELECTRICAL CONTRACTOR SHALL PROVIDE SINGLE GANG WALL BOX WITH 1/2" CONDUIT STUBBED OUT TO ABOVE ACCESSIBLE CEILING WITH NYLON BUSHINGS AND PULLSTRING IN RACEWAY. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF DEVICES.

GENERAL TELECOMMUNICATIONS NOTES

PROVIDE THE FOLLOWING RACEWAY ROUGH-IN FOR TELECOMMUNICATIONS OUTLET TYPES INDICATED: WALL PHONE OUTLET: 2"x4"x2-1/8" DEEP DEVICE BOX WITH (1) 3/4" CONDUIT TO

ABOVE ACCESSIBLE CEILING. PHONE/DATA OUTLET: 4-11/16" SQUARE x 3-1/4" DEEP BOX (RACO #260 OR EQUAL) WITH 1-GANG DEVICE RING AND 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.

- TV OUTLET: 4-11/16" SQUARE x 3-1/4" DEEP BOX (RACO #260 OR EQUAL) WITH 2-GANG DEVICE RING AND (1) 2" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE NYLON BUSHINGS FOR ALL CONDUIT ENDS NOT CONNECTED TO A BOX OR FITTING TO PROTECT CABLING FROM DAMAGE. CONDUITS FROM EACH OUTLET SHALL BE STUBBED 2" ABOVE THE FINISHED

CEILINGS IN AREAS WITH ACCESSIBLE TILES. IN AREAS WITH OPEN CEILINGS. STUB CONDUIT INTO STRUCTURAL JOIST SPACE. PROVIDE BLANK, STAINLESS STEEL COVER PLATES FOR ALL OUTLETS NOT ACTIVATED BY OWNER.

PROVIDE SUITABLE PULL STRING IN ALL CONDUITS. ALL TELECOMMUNICATIONS AND A/V CABLING, JACKS, CONNECTORS. TERMINATIONS, EQUIPMENT AND TESTING SHALL BE PROVIDED BY OWNER.

GENERAL FIRE ALARM NOTES

FIRE ALARM CABLING SHALL BE INSTALLED IN CONDUIT WHERE EXPOSED, INACCESSIBLE, AND WHERE SUBJECT TO PHYSICAL DAMAGE. DUCT TYPE SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY FIRE ALARM CONTRACTOR, INSTALLED IN DUCT BY MECHANICAL CONTRACTOR. FIRE ALARM SYSTEM HVAC SHUT DOWN RELAYS SHALL BE PROVIDED AND WIRED TO FIRE ALARM CONTROL PANEL BY FIRE ALARM CONTRACTOR. LOCATE RELAYS WITHIN 5' OF HVAC EQUIPMENT AND PROVIDE CONDUIT WITH PULL STRING FROM RELAY TO EQUIPMENT. UNIT SHUT DOWN CONTROL WIRING SHALL BE PROVIDED

BY MECHANICAL CONTRACTOR. AT LOCATION OF SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS, PROVIDE DUCT OR AREA SMOKE DETECTOR (AS SHOWN ON PLANS) WITHIN 5' OF DAMPER AND WIRE TO FIRE ALARM CONTROL PANEL. PROVIDE FIRE ALARM RELAY FOR CONTROL OF 120V POWER TO DAMPER ACTUATOR. DAMPER SHALL CLOSE UPON DETECTION OF SMOKE.

IN ADDITION TO VALVES INSTALLED ON FIRE SPRINKER SYSTEM RISER, ALL VALVES INSTALLED OUTSIDE THE BUILDING (POST INDICATOR VALVE, TAPPING SLEEVE VALVE, ETC.) SHALL BE SUPERVISED BY THE FIRE ALARM SYSTEM. PROVIDE ADDRESSABLE MONITORING MODULE AND SURGE PROTECTION DEVICE (DITEK #DTK-2MHLP48B) FOR EACH MONITORED VALVE. COORDINATE WITH GC AND SITE WORK CONTACTOR FOR ALL VALVES INSTALLED. MONITORING IS NOT REQUIRED FOR VALVES INSTALLED IN ROADWAY BOXES BY THE MUNICIPALITY/PUBLIC UTILITY.

LST Consulting Engineers, PA 4809 Vue Du Lac Place, Suite 201 125 S. Washington, Suite 150 Wichita, KS 67202 316.285.0696 Manhattan, KS 66503 785.587.8042 www.LSTengineers.com mail@LSTengineers.com 05/09/2025

Electrical Sheet List E0.1 ELECTRICAL TITLE SHEET E1.1 ELECTRICAL PLANS BUILDING A E1.2 ELECTRICAL PLANS BUILDING A E1.3 ELECTRICAL PLANS BUILDING B E1.4 ELECTRICAL PLANS BUILDING B E4.1 ENLARGED ELECTRICAL PLANS E6.1 ELECTRICAL SCHEDULES E6.2 ELECTRICAL RISER DIAGRAMS

E6.3 ELECTRICAL PANEL SCHEDULES

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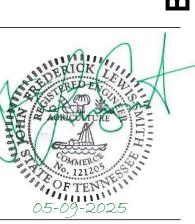
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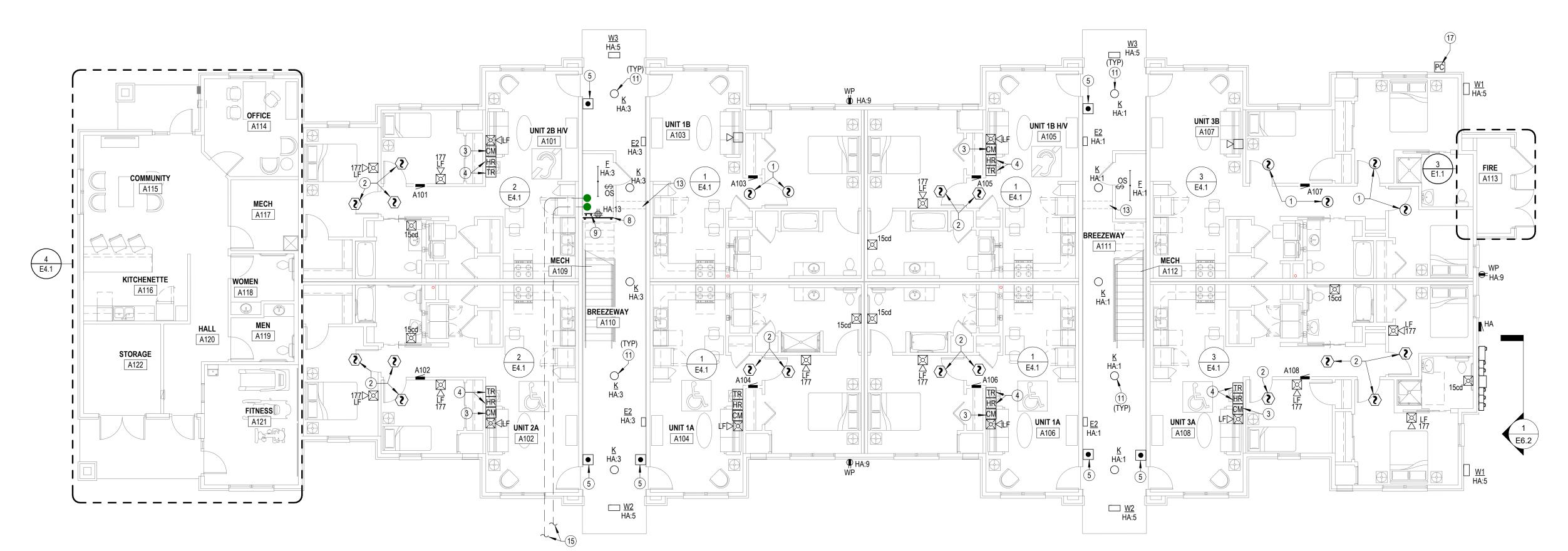
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BREEZEWAY

BUILDING A-SECOND FLOOR-POWER PLAN 1/8" = 1'-0"



NOTES BY SYMBOL

- CEILING MOUNTED SMOKE ALARM IN APARTMENTS TO BE 120VAC WITH 9V BATTERY BACKUP, INTERCONNECTED TO OTHERS IN SAME APARTMENT. DEVICE SHALL HAVE PHOTELECTRIC TYPE SMOKE DETECTOR WITH SOUNDER HORN HAVING AN 85 dB OUTPUT AT 10', SHALL HAVE A SINGLE BUTTON FOR TEST/SILENCE AND LED INDICATOR LIGHTS, AND SHALL BE UL 217 LISTED, BRK
- #SC701LBL OR EQUAL. 2 FIRE ALARM SMOKE DETECTOR.
- FIRE ALARM ADDRESSABLE CONTROL MODULE FOR CONTROL OF APARTMENT UNIT'S NOTIFICATION APPLIANCE CIRCUIT. MODULE SHALL BE PROGRAMMED TO ACTIVATE APARTMENT UNIT'S NOTIFICATION APPLIANCES UPON GENERAL BUILDING FIRE ALARM AND UPON ACTIVATION OF ANY SMOKE DETECTOR OR CO DETECTOR WITHIN APARTMENT UNIT. MOUNT FLUSH IN WALL AT 8'-0" AFF.
- PROVIDE DOOR ANNUNCIATOR SYSTEM A/V HORN/STROBE DEVICE AND LOW VOLTAGE TRANSFORMER AT ALL ACCESSIBLE APARTMENTS AND ALSO AT APARTMENTS DESIGNATED HEARING-IMPAIRED. INSTALL HORN/STROBE APPLIANCE AT 80" AFF. INSTALL TRANSFORMER IN DOUBLE GANG JUNCTION BOX ABOVE HORN/STROBE WITH BLANK COVER PLATE AND PROVIDE LOW VOLTAGE CONTROL WIRING. SEE DETAIL #, SHEET E#.#. PROVIDE ENGRAVED SIGN AT THE HORN/STROBE DEVICE TO READ "DOOR"
- PROVIDE PUSH BUTTON AT 48" AFF FOR ANNUNCIATOR SYSTEM AT ALL ACCESSIBLE APARTMENTS AND ALSO AT APARTMENTS DESIGNATED FOR HEARING-IMPAIRED. REFER TO ARCH DRAWINGS FOR APPLICABLE ROOMS. SEE DETAIL #, SHEET E#.#.
- PROVIDE SMOKE DETECTOR ABOVE FACP AND CONNECT TO FIRE ALARM SYSTEM. PROVIDE ADDRESSABLE FIRE ALARM RELAYS AND MONITORING MODULES FOR ALL FIRE SPRINKLER FLOW SWITCHES, TAMPER SWITCHES AND BELL/GONG. COORDINATE QUANTITIES AND LOCATIONS WITH FIRE SPRINKLER CONTRACTOR.
- COVER WALL WITH 4'x8'x3/4" ACX FIRE RETARDANT PLYWOOD SHEETS INSTALLED VERTICALLY WITH BOTTOM AT 6" AFF. PLYWOOD SHALL BE PERMANENTLY FASTENED TO THE WALL BY MEANS OF WALL ANCHORS UTILIZING GALVANIZED, ZINC PLATED, OR STAINLESS STEEL HARDWARE WITH A FLAT HEAD. FINISHED INSTALLATION SHALL HAVE FLUSH APPEARANCE WITH COUNTERSUNK SCREW HEADS TO PREVENT SPLITTING OF THE PLYWOOD. DRYWALL SCREWS ARE NOT ACCEPTABLE. PAINT WITH TWO COATS OF LIGHT GRAY FIRE RETARDANT SEALER PRIOR TO INSTALLATION OF ANY EQUIPMENT.
- TELECOMMUNICATIONS GROUND BAR SHALL BE 13-1/4"W x 2"H x 1/4" THICK ELECTRO-TIN PLATED COPPER BUS BAR, COMPLETE WITH INSULATED STAND-OFFS AND STAINLESS STEEL BRACKETS, ERICO #TGBA14L06PT OR EQUAL. MOUNT AT 18" AFF. ALL CONNECTIONS TO GROUND BAR SHALL BE MADE USING COMPRESSION TYPE LUGS.
- 10 120V POWER FOR FIRE SPRINKLER SYSTEM FLOW SWITCHE(ES) AND BELL. PROVIDE #8 CU BONDING JUMPER FROM CIRCUIT EQUIPMENT GROUNDING CONDUCTOR TO METAL SPRINKLER SYSTEM PIPING AT AN ACCESSIBLE LOCATION PER NEC 250.104(B). COORDINATE WORK WITH FIRE SPRINKLER SYSTEM
- CIRCUIT BREEZEWAY LIGHTS FOR CONTINUOUS OPERATION. SEE FLOORS ABOVE FOR CONTINUATION OF BREEZEWAY LIGHTING CIRCUIT. 12 PROVIDE MANUAL PULL STATION AT FACP CLOSET AND CONNECT TO FIRE ALARM
- WHERE FIRE PROTECTION PIPING MUST CROSS HALLWAY, ROUTE IN SOFFIT. PROVIDE HEAT TRACE AND INSULATE PIPING IN SOFFIT PER HEAT TRACE
- MANUFACTURER'S INSTRUCTIONS. PROVIDE ALL REQUIRED HEAT TRACE COMPONENTS AND CONTROLS FOR FREEZE PROTECTION OF PIPING. SEE WATER RISER CLOSET FOR MORE INFORMATION. PROVIDE HEAT TRACE CONTROLLER EQUAL TO CHROMALOX INTELLITRACE ITC-FS DIGITAL HEAT TRACE CONTROLLER WITH (2) CIRCUITS. PROVIDE (2) 20 AMP
- CIRCUITS, (1) FOR EACH BREEZEWAY. ROUTE CIRCUITS FROM PANEL 'HA' TO HEAT TRACE CONTROLLER. EXTEND LINE VOLTAGE AND LOW VOLTAGE MONITORING CABLING FROM HEAT TRACE CONTROLLER TO EACH FIRE SUPPRESSION BREEZEWAY CROSSING.

BUILDING A-FIRST FLOOR-POWER PLAN
1/8" = 1'-0"

BUILDING A-WATER RISER CLOSET
3/8" = 1'-0"

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2 PROVIDE RECEPTACLE IN ATTIC NEAR RADON PIPE FOR FUTURE RADON FAN.
3 DOWNLIGHTS TO BE INSTALLED IN SOFFIT ABOVE THIRD FLOOR.

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BUILDING A-THIRD FLOOR-POWER PLAN
1/8" = 1'-0"

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4 COVER WALL WITH 4'x8'x3/4" ACX FIRE RETARDANT PLYWOOD SHEETS INSTALLED VERTICALLY WITH BOTTOM AT 6" AFF. PLYWOOD SHALL BE PERMANENTLY FASTENED TO THE WALL BY MEANS OF WALL ANCHORS UTILIZING GALVANIZED, ZINC PLATED, OR STAINLESS STEEL HARDWARE WITH A FLAT HEAD. FINISHED INSTALLATION SHALL HAVE FLUSH APPEARANCE WITH COUNTERSUNK SCREW HEADS TO PREVENT SPLITTING OF THE PLYWOOD. DRYWALL SCREWS ARE NOT ACCEPTABLE. PAINT WITH TWO COATS OF LIGHT GRAY FIRE RETARDANT SEALER PRIOR TO INSTALLATION OF ANY EQUIPMENT.

TELECOMMUNICATIONS GROUND BAR SHALL BE 13-1/4"W x 2"H x 1/4" THICK ELECTRO-TIN PLATED COPPER BUS BAR, COMPLETE WITH INSULATED STAND-OFFS AND STAINLESS STEEL BRACKETS, ERICO #TGBA14L06PT OR EQUAL. MOUNT AT 18" AFF. ALL CONNECTIONS TO GROUND BAR SHALL BE MADE USING COMPRESSION TYPE LUGS.

6 120V POWER FOR FIRE SPRINKLER SYSTEM FLOW SWITCHE(ES) AND BELL.
PROVIDE #8 CU BONDING JUMPER FROM CIRCUIT EQUIPMENT GROUNDING
CONDUCTOR TO METAL SPRINKLER SYSTEM PIPING AT AN ACCESSIBLE LOCATION
PER NEC 250.104(B). COORDINATE WORK WITH FIRE SPRINKLER SYSTEM
INSTALLER.

7 CIRCUIT BREEZEWAY LIGHTS FOR CONTINUOUS OPERATION. SEE FLOORS ABOVE FOR CONTINUATION OF BREEZEWAY LIGHTING CIRCUIT.

8 PROVIDE MANUAL PUBLIC STATION AT FACE CLOSET AND CONNECT TO FIRE ALARM.

8 PROVIDE MANUAL PULL STATION AT FACP CLOSET AND CONNECT TO FIRE ALARM SYSTEM.

9 WHERE FIRE PROTECTION PIPING MUST CROSS HALLWAY, ROUTE IN SOFFIT.
PROVIDE HEAT TRACE AND INSULATE PIPING IN SOFFIT PER HEAT TRACE
MANUFACTURER'S INSTRUCTIONS. PROVIDE ALL REQUIRED HEAT TRACE
COMPONENTS AND CONTROLS FOR FREEZE PROTECTION OF PIPING. SEE WATER
RISER CLOSET FOR MORE INFORMATION.

PROVIDE HEAT TRACE CONTROLLER EQUAL TO CHROMALOX INTELLITRACE ITC-FS DIGITAL HEAT TRACE CONTROLLER WITH (2) CIRCUITS. PROVIDE (2) 20 AMP CIRCUITS, (1) FOR EACH BREEZEWAY. ROUTE CIRCUITS FROM PANEL 'HA' TO HEAT TRACE CONTROLLER. EXTEND LINE VOLTAGE AND LOW VOLTAGE MONITORING CABLING FROM HEAT TRACE CONTROLLER TO EACH FIRE SUPPRESSION BREEZEWAY CROSSING.

11 (2) 2" CONDUITS FOR COMMUNICATIONS SERVICES. SEE SITE PLAN FOR CONTINUATION.

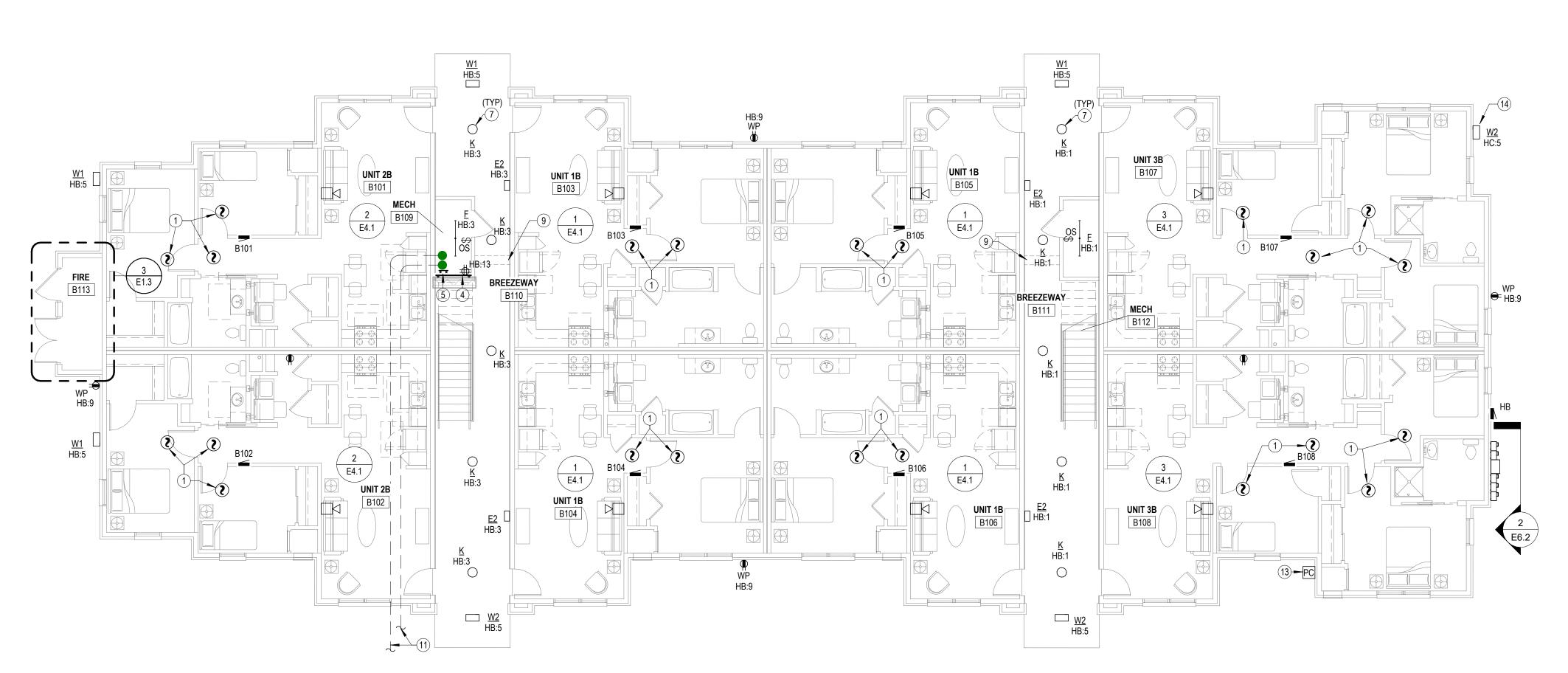
PROVIDE (2) CAT 5e UTP, NEC TYPE 'CMP' CABLES (SUPERIOR ESSEX #51-241-48 OR EQUAL) IN 3/4" CONDUIT FROM FACP TO MAIN TELECOM TERMINAL BOARD FOR CONNECTION TO FA SYSTEM DACT FOR REMOTE MONITORING.

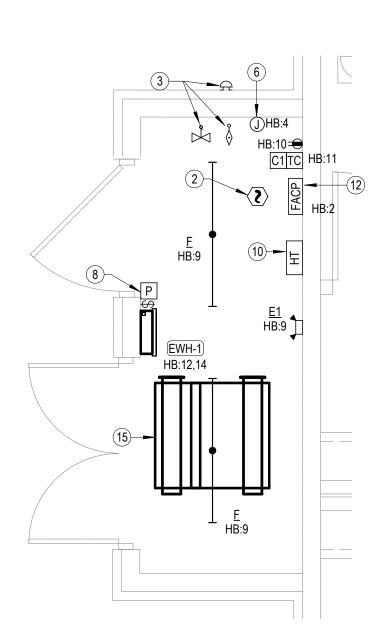
PROVIDE PHOTOCELL ON NORTH SIDE OF BUILDING FOR OPERATION OF PARKING LOT LIGHTS AND BUILDING MOUNTED LIGHTS, SEE DETAIL X:E6.X FOR MORE

14 WALLPACK ONLY LOCATED ON BUILDING 'C'.

15 PROVIDE ALTERNATE BID TO CONNECT DOMESTIC WATER BOOSTER PUMP.

BUILDING B-SECOND FLOOR-POWER PLAN 1/8" = 1'-0" BUILDING 'C' SIMILAR





BUILDING B-WATER RISER CLOSET

3/8" = 1'-0"

BUILDING 'C' SIMILAR

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NEW APARTMENT CO

BROWNSVILLE

COMMERCY OF TENT

05-09-2025 EVISIONS:

DATE: 05/09/2025 JOB: 24-3446 SHEET NO.:

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E1.3

2 PROVIDE RECEPTACLE IN ATTIC NEAR RADON PIPE FOR FUTURE RADON FAN. 3 DOWNLIGHTS TO BE INSTALLED IN SOFFIT ABOVE THIRD FLOOR.

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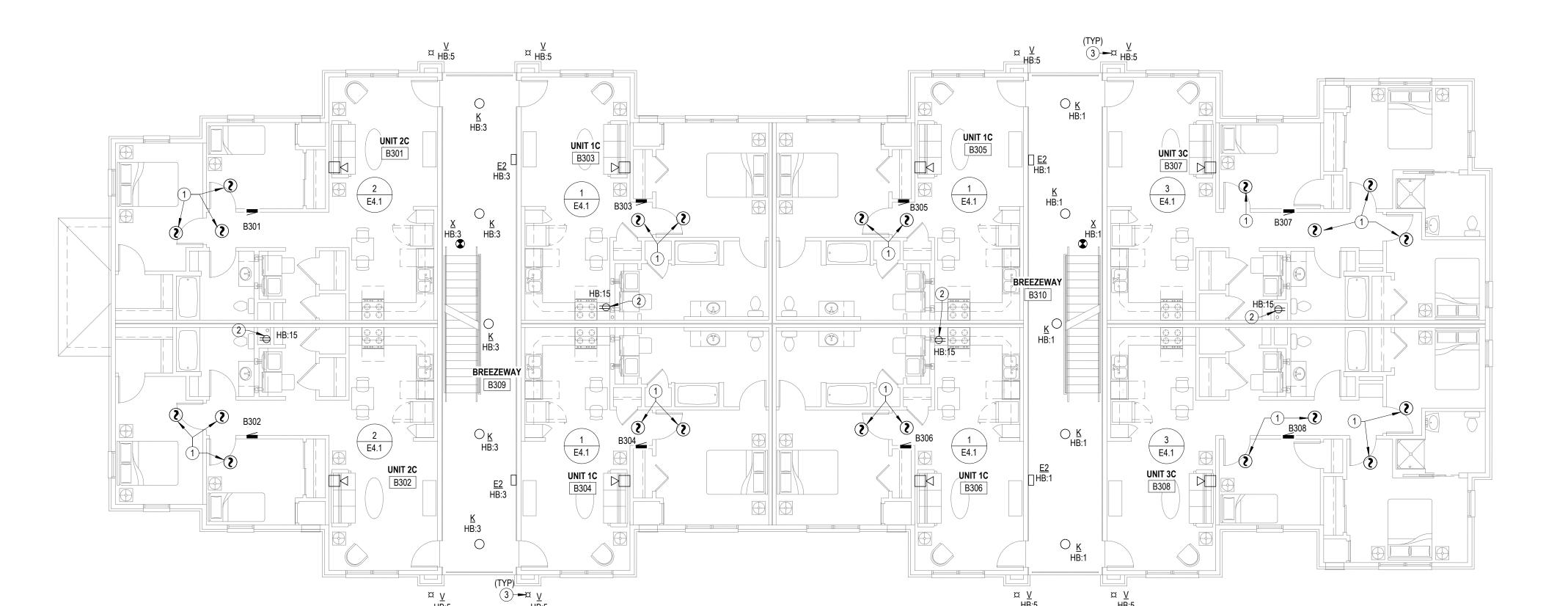
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BUILDING B-THIRD FLOOR-POWER PLAN

1/8" = 1'-0"



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1 CONNECT EXHAUST FAN/LIGHT PROVIDED BY MECHANCIAL CONTRACTOR. 2 PROVIDE PRESET SLIDE DIMMER COMPATIBLE WITH ASSOCIATED LIGHT FIXTURES.

SWITCH CLOSEST TO DOOR SHALL CONTROL ALL LIGHTS IN BATHROOM, AND THE

OTHER SWITCH SHALL CONTROL THE EXHAUST FAN. PROVIDE 120V CONNECTION TO MICROWAVE/RANGE HOOD. STANDARD AND ADAPTABLE UNITS WILL HAVE MICROWAVE ABOVE RANGE. ACCESSIBLE UNITS WILL HAVE RANGE HOOD. COORDINATE EXACT ELECTRICAL ROUGH-IN REQUIREMENTS WITH EQUIPMENT PROVIDED. IF EQUIPMENT IS CORD AND PLUG,

PROVIDE RECEPTACLE INSIDE CABINET ABOVE RANGE PROVIDE SWITCH IN ACCESSIBLE UNITS FOR CONTROL OF RANGE HOOD.

IN ACCESSIBLE UNITS, INSTALL COUNTERTOP RECEPTACLES A MINIMUM 36" AWAY FROM CORNER PER FAIR HOUSING ACT DESIGN MANUAL CHAPTER 5 'SIDE REACH OVER AN OBSTRUCTION' REQUIREMENTS. WHERE AN OBSTRUCTION PREVENTS 36" DISTANCE REQUIREMENT, INSTALL RECEPTACLE AS FAR FROM CORNER AS POSSIBLE. PROVIDE ADDITIONAL OUTLETS WITHIN 36" OF CORNER TO ENSURE COMPLIANCE WITH NEC SPACING REQUIREMENTS.

PROVIDE RECEPTACLE BELOW COUNTER FOR CORD AND PLUG CONNECTION OF DISHWASHER. PROVIDE CORD AND GROUNDING PLUG AS REQUIRED.

8 SWITCHED RECEPTACLE BELOW COUNTER FOR GARBAGE DISPOSAL. COORDINATE EXACT LOCATION OF SWITCH WITH ARCHITECT.

9 PROVIDE 30A/2P SNAP SWITCH AND CONNECT WATER HEATER. INSTALL SWITCH ADJACENT TO WATER HEATER.

10 COORDINATE FINAL LOCATIONS OF ALL CATV AND PHONE OUTLETS WITH OWNER. 11 TELECOM DISTRIBUTION DEVICE APPROXIMATELY 4'-0" AFF. COORDINATE EXACT

REQUIREMENTS WITH UTILITY PROVIDER SELECTED BY OWNER. 12 PROVIDE TIMER SWITCH EQUAL TO AIR CYCLER 'SMART EXHAUST' FOR CONTROL OF EXHAUST FAN. SET SWITCH PER MANUFACTURER'S INSTRUCTIONS TO OPERATE FAN AS INDICATED BELOW: 1 BEDROOM: 17 MINUTES PER HOUR

2 BEDROOM: 24 MINUTES PER HOUR 3 BEDROOM: 31 MINUTES PER HOUR

13 SWITCH CEILING FAN SEPARATELY FROM LIGHTS.

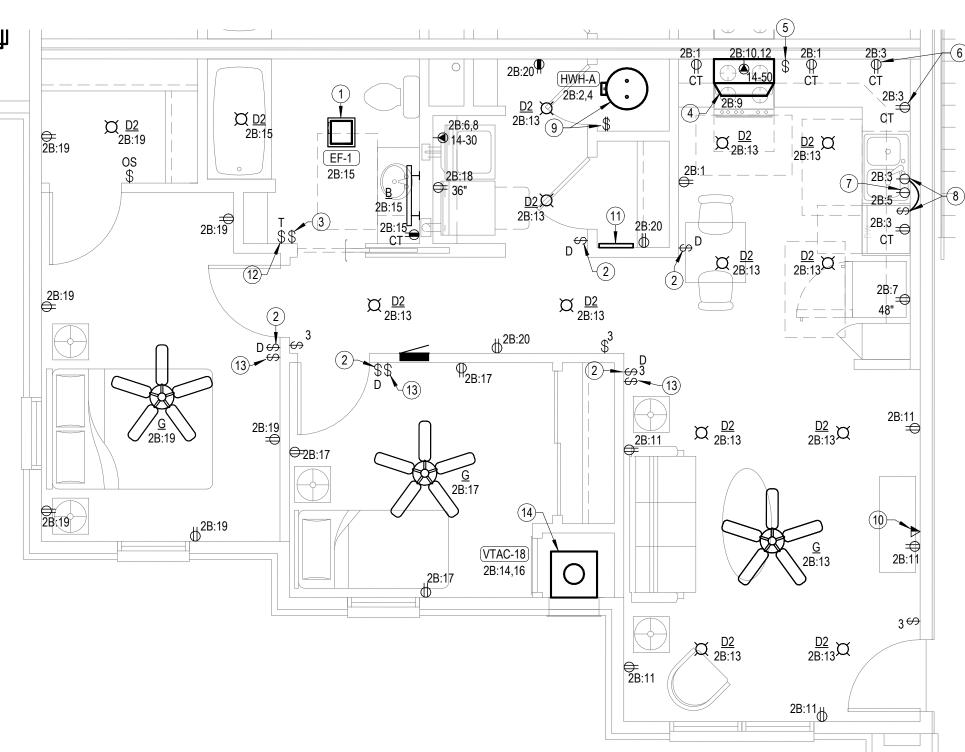
MAKE FINAL CONNECTION TO VERTICAL PACKAGED UNIT. EQUIPMENT TO BE PROVIDED WITH INTEGRAL DISCONNECT SWITCH. SEE EQUIPMENT SCHEDULE FOR MORE INFORMATION. COORDINATE REQUIREMENTS WITH M.C. 15 ONE RECEPTACLE SHALL BE CONNECTED TO CIRCUIT C:2 (UNCONTROLLED) AND

THE OTHER RECEPTACLES SHALL BE CONNECTED TO CIRCUIT C:23 (CONTROLLED). CONTROLLED RECEPTACLES SHALL BE MARKED IN ACCORDANCE

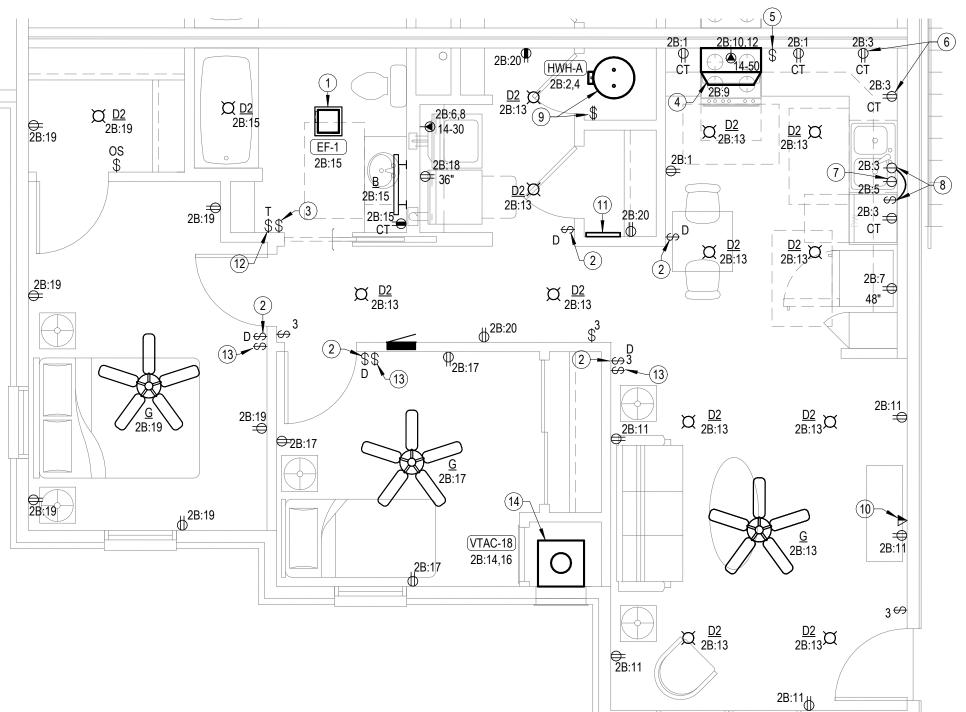
16 2-HOUR DIAL TIMER OVERRIDE SWITCH FOR SWITCHED RECEPTACLES. SEE X:E6.1. PROVIDE 30A/2P/240V DISCONNECT SWITCH IN NEMA 3R ENCLOSURE AND CONNECT HEAT PUMP. ROUTE IMC CONDUIT FROM DISCONNECT, SUPPORTED ABOVE GRADE, TO HEAT PUMP. TRANSITION TO FLEXIBLE LIQUID TIGHT METAL CONDUIT AT HEAT PUMP. 18 SWITCH EXHAUST FAN WITH ROOM LIGHTS.

19 CIRCUIT EXHAUST FAN FOR CONTINUOUS OPERATION.

3 BEDROOM ENLARGED POWER PLAN



2 BEDROOM ENLARGED POWER PLAN
1/4" = 1'-0"



1 BEDROOM ENLARGED POWER PLAN
1/4" = 1'-0"

CLUBHOUSE ENLARGED POWER PLAN
1/4" = 1'-0"

<u>D1</u> HA:5

E4.1

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24-3446 SHEET NO .:

1 LIGHTING CONTROL DIAGRAM - BUILDING NO SCALE

					LIGHT FIXTURE S	CHEDULE			
MARK	MANUFACTURER	MODEL NUMBER	WATTAGE	LUMEN OUTPUT	DRIVER	MOUNTING	FINISH	DESCRIPTION	NOTES
Α	LITHONIA	FML4W ALO6 SEF 840 MVOLT	49 W	5874 lm	TRIAC DIMMING	SURFACE	WHITE	1X4 SURFACE, LED WRAP	
В	MAXIM LIGHTING	52004	20 W	1500 lm	LED DRIVER, ELV DIMMABLE, 2%	SURFACE WALL HORIZONTAL	SELECTED BY ARCHITECT	30" LED VANITY LIGHT	
С	TBD	SELECTED BY OWNER			0-10V DIMMING TO 10%	CEILING SURFACE	TBD	PENDANT SELECTED BY OWNER AND PROVIDED BY ELECTRICAL CONTRACTOR	
D1	HALO	SMD6R6930WH	10 W	600 lm	0-10V DIMMING TO 10%	CEILING SURFACE	WHITE	6" DIA ROUND SURFACE MOUNT DOWNLIGHT	9
D2	HALO	SMD6R12930WH	16 W	1271 lm	0-10V DIMMING TO 10%	CEILING SURFACE	WHITE	6" DIA ROUND SURFACE MOUNT DOWNLIGHT	
E1	LITHONIA	EU2-LED-M12				SURFACE WALL	WHITE	TWO HEAD EMERGENCY LIGHT	1
E2	LITHONIA	AFF OEL DWHGXD UVOLT LTP SDRT WT				SURFACE WALL	WHITE	EXTERIOR RATED TWO HEAD EMERGENCY LIGHT	1,3,5
F	DAY-BRITE CFI	FSS440L840-UNV-DIM	30 W	4077 lm	0-10V DIMMING TO 10%	SUSPENDED	WHITE	4' STANDARD STRIP WITH CURVED FROSTED ACRYLIC LENS	
G	SEAGULL	15030EN-829	20 W		STANDARD	CEILING SURFACE	BRONZE	52" DIAMETER CEILING FAN WITH LED LIGHT KIT	
K	LITHONIA	OLCFM15-DDB	17 W	1077 lm	STANDARD	CEILING SURFACE	BRONZE	12" LED BREEZWAY DOWNLIGHT	3,5
R1	LITHONIA	DSX2 LED P1 30K T3M MVOLT HS	33 W	4791 lm	STANDARD	POLE	BLACK	LED AREA LIGHT, SINGLE HEAD FULL CUT-OFF WITH IES TYPE III DISTRIBUTION AND HOUSE SIDE SHEILD	1,8
R2	LITHONIA	DSX2 LED P2 30K T4M MVOLT HS	45 W	6272 lm	STANDARD	POLE	BLACK	LED AREA LIGHT, SINGLE HEAD FULL CUT-OFF WITH IES TYPE IV DISTRIBUTION AND HOUSE SIDE SHEILD	2,8
S	ACCLAIM	DFB-111-AKEU	50 W	2455 lm	STANDARD	GRADE	BLACK	IP-66 RATED, GRADE MOUNTED LED FLOOD LIGHT	4
V	GOTHAM	ICO 40/05/AR/LSS10D	7 W	500 lm	STANDARD	SURFACE	WHITE	4" DIAMETER LED WALL WASH DOWNLIGHT WITH 10° BEAM ANGLE	5
W1	LITHONIA	MRW LED P1 40K SR2 MVOLT	20 W	2251 lm	STANDARD	WALL	BLACK	EXTERIOR LED WALL PACK WITH IES TYPE II DISTRIBUTION	3,4
W2	LITHONIA	MRW LED P1 40K SR4 MVOLT	20 W	2189 lm	STANDARD	WALL	BLACK	EXTERIOR LED WALL PACK WITH IES TYPE IV DISTRIBUTION	3,4
W3	LITHONIA	MRW LED P4 40K SR4 MVOLT	61 W	6388 lm	STANDARD	WALL	BLACK	EXTERIOR LED WALL PACK WITH IES TYPE IV DISTRIBUTION	3,4
Х	LITHONIA	WLTE W 2 R EL SD				CEILING	WHITE	2 FACED EXTERIOR RATED EXIT LIGHT	1,2
XE	LITHONIA	LHQM LED R HO	4 W	1045 lm		WALL		EXIT/ELU COMBO, RED LETTERING	1,2

ALL LED'S SHALL BE 4000K CORRELATED COLOR TEMPERATURE, MINIMUM 80 CRI

 ALL LED FIXTURES SHALL ADHERE TO LM79 AND LM80 STANDARDS ALL APARTMENT LIGHT FIXTURES SHALL BE ENERGY STAR CERTIFIED

- 1. PROVIDE FIXTURE WITH EMERGENCY BATTERY INTEGRAL CHARGER WITH SELF-DIAGNOSTIC/SELF-TESTING ELECTRONICS. 2. FIXTURE SHALL BE CAPABLE OF WALL OR CEILING MOUNT APPLICATIONS AND SHALL HAVE BREAK-OUT DIRECTIONAL CHEVRONS.
- 3. FIXTURE SHALL BE CAPABLE OF OPERATION IN TEMPERATURES RANGING FROM -4F THROUGH 104F.
- 4. U.L. LISTED FOR 'WET LOCATION'.
- 5. U.L LISTED FOR 'DAMP LOCATION'.
- PROVIDE FIXTURE/POLE ASSEMBLY WITH 20' ROUND STRAIGHT STEEL POLE, BLACK TO MATCH FIXTURE. PROVIDE FIXTURE/POLE ASSEMBLY WITH 20' ROUND STRAIGHT STEEL POLE, BLACK TO MATCH FIXTURE.
- 8. FIXTURE/POLE ASSEMBLY SHALL BE RATED FOR 100 MPH WIND LOADS. PROVIDE WITH VIBRATION DAMPER PER MANUFACTURER'S RECOMMENDATIONS.
- 9. WHERE INSTALLED OUTSIDE OR IN BATHROOMS FIXTURE SHALL BE 'DAMP LOCATION' U.L LISTED, WHERE ABOVE SHOWERS OR BATHTUBS FIXTURE SHALL BE 'WET LOCATION' U.L. LISTED.

C:25 2-CIRCUIT DIGITAL TIME SWITCH (SEE SPECS) _6//~ ¦ CCT#1 CONTACTOR 'C2' C:23 TO OFFICE RECEPTS I SPARE ♥┤├♥ I CCT#2 L----J LIGHTING CONTACTOR WALL BOX DIAL TIMER FOR TIME SWITCH OVERRIDE, MAXIMUM 2-HOUR TIME SETTING WITHOUT HOLD, INTERMATIC #FF2H OR EQUAL.

CLUBHOUSE CONTROLLED RECEPTACLE DIAGRAM NO SCALE

HA:7 TO PARKING LOT LIGHTS

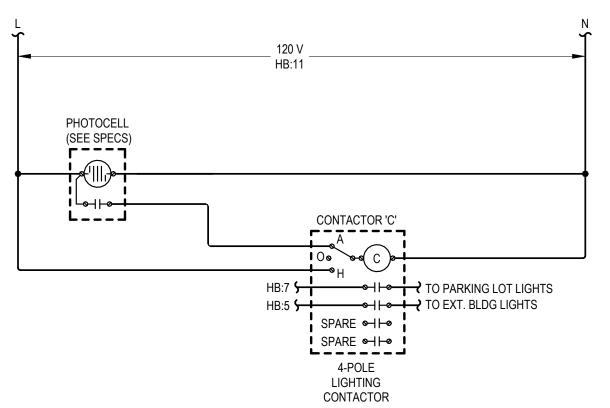
HA:17 TO MONUMENT SIGN LIGHTS

SPARE &--

LIGHTING

CONTACTOR

120 V



LIGHTING CONTROL DIAGRAM - BUILDING B

APARTMENT DOORBELL WIRING SCHEMATIC 12" = 1'-0"

DOOR ALARM BUZZER SYSTEM NOTES

PROVIDE DOOR ANNUNCIATOR SYSTEM COMPLETE WITH PUSH BUTTON,

HORN/STROBE SHALL ACTIVATE WHEN PUSH BUTTON IS DEPRESSED.

2. HORN/STROBE SHALL OPERATE AT 24VAC, HAVE A CLEAR LENS WITH 50cd STROBE AND HORN WITH 82dB AT 10', UL 1638 LISTED, EDWARDS #6536-G5.

3. PUSH BUTTON SHALL BE WHITE WITH CHROME RIM, NON-ILLUMINATED, WITH

N.O. MOMENTARY CONTACTS, RATED FOR 0.67 AMPS AT 24VAC, EDWARDS #

4. POWER SUPPLY SHALL BE A LOW VOLTAGE CLASS 2 TRANSFORMER WITH 120VAC

PRIMARY AND 24VAC SECONDARY, 20VA, EDWARDS #598. FLUSH MOUNT IN 2-

GANG WALL BOX WITH BLANK COVER PLATE, DIRECTLY ABOVE HORN/STROBE.

5. LOW VOLTAGE CLASS 2 CABLING SHALL BE MINIMUM 18 AWG UNSHIELDED.

620. PROVIDE WITH STAINLESS STEEL COVER PLATE, EDWARDS #147-10.

HORN/STROBE(S), POWER SUPPLIES AND ALL WIRING REQUIRED.

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(SEE SPECS)

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METER CENTER MAIN, 3-PH IN; 3-PH OUT, 208/120V-3PH, 4 WIRE WITH 1000A/3P MAIN BREAKER, 42 KAIC RATED, SERVICE ENTRANCE RATED WITH INTEGRAL SURGE

5-SOCKET BRANCH UNITS, 3-PH IN; 1-PH OUT, WITH (5) 110A BRANCH BREAKERS.

WITHOUT BYPASS, SQUARE D 'EZ METER-PAK' #EZM315125. PROVIDE PERMANENT

1-SOCKET BRANCH UNITS, 3-PH IN; 1-PH OUT, WITH (1) 200A BRANCH BREAKER. METER SOCKETS SHALL BE RING TYPE, WITH TEST BLOCK BYPASS SQUARE D'EZ METER-PAK' #EZMT311225. PROVIDE PERMANENT LABEL ON METER SOCKET

ELECTRODE, UNDERGROUND METAL WATER PIPE, AND DRIVEN GROUND ROD

MAXIMUM HEIGHT TO CENTERLINE OF TOP METER SOCKET SHALL BE 5'-6" AFG. MINIMUM HEIGHT TO BOTTOM OF METER SOCKET ASSEMBLY SHALL BE 18" AFG.

10 METER CENTER MAIN, 3-PH IN; 3-PH OUT, 208/120V-3PH, 4 WIRE WITH 800A/3P MAIN BREAKER, 65 KAIC RATED, SERVICE ENTRANCE RATED WITH INTEGRAL SURGE

TRANSFORMER TO METER CENTER AT BUILDING 'B'. NOTE: BUILDING 'C' METER CENTER AND FEEDERS ARE SIMILAR. SEE ME1.0 FOR MORE INFORMATION.

ELECTRODE, UNDERGROUND METAL WATER PIPE, AND DRIVEN GROUND ROD.

Meter Center main circuit breaker shall be fully rated for kAIC rating listed in notes above. Feeder breakers

Coordinate all responsibilities and requirements with power utility company and pay associated fees.

Coordinate final location of meter assemblies with utility company. Provide shop drawings of proposed

All dimensions based on Square D equipment. It is the contractor's responsibility to verify the dimensions of

For each meter, provide a permanent brass, copper or aluminum tag identifying the apartment served. Tags

(3) PARALLEL 4" CONDUITS EACH WITH (4) #400 KCMIL COPPER FROM

6 #3/0 CU GROUNDING ELECTRODE CONDUCTOR TO CONCRETE ENCASED

9 SEE FEEDER SCHEDULE, THIS SHEET FOR SIZES TO APARTMENT UNIT LOAD

PROTECTION DEVICE. SQUARE D 'EZ METER-PAK' #EZM3800CB.

11 (2) PARALLEL 4" CONDUITS EACH WITH (4) #500 KCMIL COPPER FROM

BOND ALL ITEMS IN ACCORDANCE WITH NEC ARTICLE 250.

equipment whether as specified or substituted to utility company for approval.

shall be securely fastened to the meter base and be stamped with 1/8" letters, minimum.

#2/0 CU GROUNDING ELECTRODE CONDUCTOR TO CONCRETE ENCASED

TRANSFORMER TO METER CENTER AT BUILDING 'A'.

BOND ALL ITEMS IN ACCORDANCE WITH NEC ARTICLE 250.

PROTECTION DEVICE. SQUARE D 'EZ METER-PAK' #EZM31000CB.

BREAKER TO READ 'CLUBHOUSE'.

may be series rated with main breaker. All conductor sizes are based on copper, U.N.O. Entire installation shall comply with NEC.

> Russ Stoots General Manager rstoots@budutil.com

Brownsville Energy Authority

All meter center components shall be NEMA 3R.

Contact Information:

substitute equipment.

24-3446

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BROWNSVILLE

BUILDING 'B' FEEDER SCHEDULE PANEL NAME | FEEDER SIZE (COPPER) FEEDER SIZE (ALUMINUM) B101 | 2"C 2-3/0 3/0N #3G 2"C 2-4/0 AL 4/0 AL N 1/0 AL G B102 | 1-1/2"C 2-2/0 2/0N #4G 2"C 2-4/0 AL 4/0 AL N 1/0 AL G B103 | 1-1/2"C 2-1/0 1/0N #6G 2"C 2-3/0 AL 3/0 AL N #1 AL G 1-1/2"C 2-2/0 AL 2/0 AL N #2 AL G B104 | 1-1/2"C 2-1/0 1/0N #6G 1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G B105 | 1-1/2"C 2-1/0 1/0N #6G 1-1/4"C 2#1 #1N #6G 1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G 1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G 1-1/4"C 2#1 #1N #6G 1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G 1-1/4"C 2#1 #1N #6G 2"C 2-3/0 3/0N #3G 2"C 2-250kcmil AL 250kcmil AL N 2/0 AL G 2"C 2-4/0 AL 4/0 AL N 1/0 AL G 2"C 2-3/0 AL 3/0 AL N #1 AL G 1-1/2"C 2-1/0 1/0N #6G 1-1/2"C 2-2/0 AL 2/0 AL N #2 AL G B205 | 1-1/2"C 2-1/0 1/0N #6G 1-1/2"C 2-2/0 AL 2/0 AL N #2 AL G B206 | 1-1/2"C 2-1/0 1/0N #6G 1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G 1-1/4"C 2#1 #1N #6G 1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G 1-1/4"C 2#1 #1N #6G 1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G 2"C 2-3/0 3/0N #3G | 2"C 2-250kcmil AL 250kcmil AL N 2/0 AL 0 2"C 2-250kcmil AL 250kcmil AL N 2/0 AL 0 B303 | 1-1/2"C 2-1/0 1/0N #6G 2"C 2-3/0 AL 3/0 AL N #1 AL G B304 | 1-1/2"C 2-1/0 1/0N #6G 2"C 2-3/0 AL 3/0 AL N #1 AL G 1-1/2"C 2-2/0 AL 2/0 AL N #2 AL G B305 | 1-1/2"C 2-1/0 1/0N #6G B306 | 1-1/2"C 2-1/0 1/0N #6G 1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G

1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G

1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G

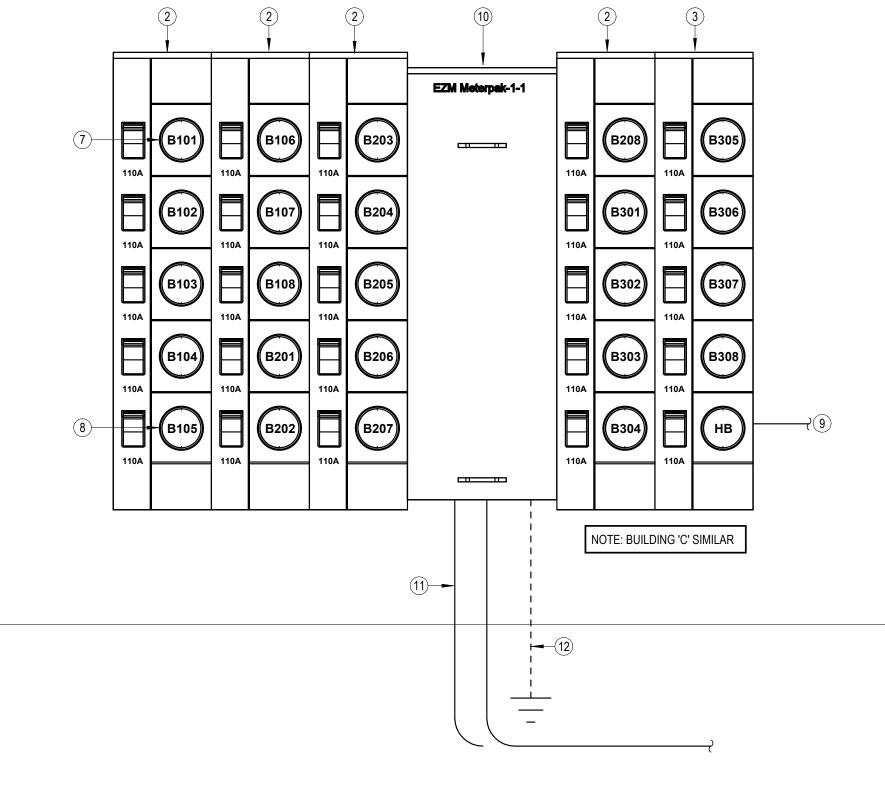
1-1/4"C 2-1/0 AL 1/0 AL N #6 AL G

1-1/4"C 2#1 #1N #6G

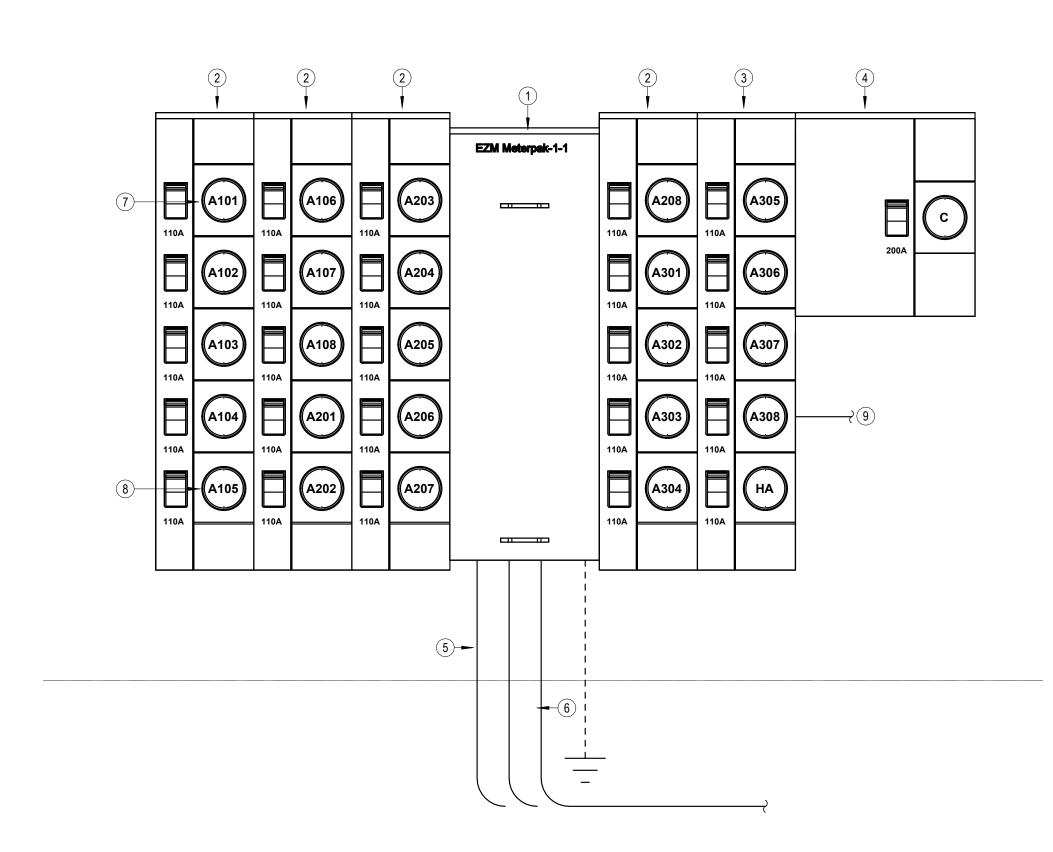
1-1/4"C 2#1 #1N #6G

HB 1-1/4"C 2#1 #1N #8G

	BUILDING 'C'	FEEDER SCHEDULE
PANEL NAME	FEEDER SIZE (COPPER)	FEEDER SIZE (ALUMINUM)
C101	1-1/4"C 2#1 #1N #6G	1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G
C102	1-1/4"C 2#1 #1N #6G	1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G
C103	1-1/4"C 2#1 #1N #6G	1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G
C104	1-1/4"C 2#1 #1N #6G	1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G
C105	1-1/2"C 2-1/0 1/0N #6G	1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G
C106	1-1/2"C 2-1/0 1/0N #6G	1-1/2"C 2-2/0 AL 2/0 AL N #2 AL G
C107	1-1/2"C 2-1/0 1/0N #6G	2"C 2-4/0 AL 4/0 AL N 1/0 AL G
C108	1-1/2"C 2-2/0 2/0N #4G	2"C 2-4/0 AL 4/0 AL N 1/0 AL G
C201	1-1/4"C 2#1 #1N #6G	1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G
C202	1-1/4"C 2#1 #1N #6G	1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G
C203	1-1/4"C 2#1 #1N #6G	1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G
C204	1-1/4"C 2#1 #1N #6G	1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G
C205	1-1/2"C 2-1/0 1/0N #6G	1-1/2"C 2-2/0 AL 2/0 AL N #2 AL G
C206	1-1/2"C 2-1/0 1/0N #6G	1-1/2"C 2-2/0 AL 2/0 AL N #2 AL G
C207	1-1/2"C 2-2/0 2/0N #4G	2"C 2-4/0 AL 4/0 AL N 1/0 AL G
C208	1-1/2"C 2-2/0 2/0N #4G	2"C 2-4/0 AL 4/0 AL N 1/0 AL G
C301	1-1/4"C 2#1 #1N #6G	1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G
C302	1-1/4"C 2#1 #1N #6G	1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G
C303	1-1/2"C 2-1/0 1/0N #6G	1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G
C304	1-1/2"C 2-1/0 1/0N #6G	1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G
C305	1-1/2"C 2-1/0 1/0N #6G	1-1/2"C 2-2/0 AL 2/0 AL N #2 AL G
C306	1-1/2"C 2-1/0 1/0N #6G	2"C 2-3/0 AL 3/0 AL N #1 AL G
C307	1-1/2"C 2-2/0 2/0N #4G	2"C 2-4/0 AL 4/0 AL N 1/0 AL G
C308	2"C 2-3/0 3/0N #3G	2"C 2-250kcmil AL 250kcmil AL N 2/0 AL G
HC	1-1/4"C 2#1 #1N #8G	1-1/4"C 2-1/0 AL 1/0 AL N #6 AL G



BUILDINGS B & C-ELECTRICAL RISER DIAGRAM 1" = 1'-0"



BUILDING A-ELECTRICAL RISER DIAGRAM 1" = 1'-0"

	BUILDING '/	A' FEEDER SCHEDULE
PANEL NAME	FEEDER SIZE (COPPER)	FEEDER SIZE (ALUMINUM)
A101	2"C 2-3/0 3/0N #3G	2"C 2-250kcmil AL 250kcmil AL N 2/0 AL G
A102	2"C 2-3/0 3/0N #3G	2"C 2-250kcmil AL 250kcmil AL N 2/0 AL G
A103	1-1/2"C 2-1/0 1/0N #6G	2"C 2-3/0 AL 3/0 AL N #1 AL G
A104	1-1/2"C 2-1/0 1/0N #6G	2"C 2-3/0 AL 3/0 AL N #1 AL G
A105	1-1/2"C 2-1/0 1/0N #6G	1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G
A106	1-1/4"C 2#1 #1N #6G	1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G
A107	1-1/4"C 2#1 #1N #6G	1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G
A108	1-1/4"C 2#1 #1N #6G	1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G
A201	2"C 2-3/0 3/0N #3G	2"C 2-250kcmil AL 250kcmil AL N 2/0 AL G
A202	2"C 2-3/0 3/0N #3G	2"C 2-250kcmil AL 250kcmil AL N 2/0 AL G
A203	1-1/2"C 2-1/0 1/0N #6G	2"C 2-3/0 AL 3/0 AL N #1 AL G
A204	1-1/2"C 2-1/0 1/0N #6G	2"C 2-3/0 AL 3/0 AL N #1 AL G
A205	1-1/2"C 2-1/0 1/0N #6G	1-1/2"C 2-2/0 AL 2/0 AL N #2 AL G
A206	1-1/2"C 2-1/0 1/0N #6G	1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G
A207	1-1/4"C 2#1 #1N #6G	1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G
A208	1-1/4"C 2#1 #1N #6G	1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G
A301	2"C 2-3/0 3/0N #3G	2-1/2"C 2-300kcmil AL 300kcmil AL N 3/0 AL G
A302	2"C 2-3/0 3/0N #3G	2"C 2-250kcmil AL 250kcmil AL N 2/0 AL G
A303	1-1/2"C 2-1/0 1/0N #6G	2"C 2-4/0 AL 4/0 AL N 1/0 AL G
A304	1-1/2"C 2-1/0 1/0N #6G	2"C 2-3/0 AL 3/0 AL N #1 AL G
A305	1-1/2"C 2-1/0 1/0N #6G	1-1/2"C 2-2/0 AL 2/0 AL N #2 AL G
A306	1-1/2"C 2-1/0 1/0N #6G	1-1/2"C 2-2/0 AL 2/0 AL N #2 AL G
A307	1-1/4"C 2#1 #1N #6G	1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G
A308	1-1/4"C 2#1 #1N #6G	1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G
HA	1-1/4"C 2#1 #1N #8G	1-1/4"C 2-1/0 AL 1/0 AL N #6 AL G
С	2"C 2-4/0 4/0N #4G	2-1/2"C 2-350kcmil AL 350kcmil AL N #2 AL G

Installed Location: Voltage: 120/208 1PH 3W-1Ph-3W Mounting: Flush Enclosure: NEMA 1

Enclosure: NEMA 1

Bus Amps: 150 MCB Amps: MLO Features & Modifications: -

SCCR/AIC: 22.0 kA Mains FN/Note: -

Mains FN/Note:

Ckt	Description	Circuitry	Trip (A)	FN		A	ı	В	FN	Trip (A)	Circuitry	Description	Ckt
1B:1	Kitchen Receptacles	1/2"C,1#12,#12N,#12G	20	AG	5 A	0 A				20	1/0"0 0#10 #100	Flooting Weton Hooting	1B:2
1B:3	Kitchen Receptacles	1/2"C,1#12,#12N,#12G	20	AG			9 A	0 A		20	1/2"C,2#12,#12G	Electric Water Heating	1B:4
1B:5	Dishwasher	1/2"C,1#12,#12N,#12G	20	AG	4 A	41 A				60	3/4"C,2#4,#10G	Clathon Dryon	1B:6
1B:7	Refrigerator	1/2"C,1#12,#12N,#12G	20	AG			2 A	41 A	G	60	3/4 0,2#4,#100	Clothes Dryer	1B:8
1B:9	Hood/Microwave	1/2"C,1#12,#12N,#12G	20	AG	2 A	41 A				60	2/4"C 2#4 #40C	Dance	1B:10
1B:11	Living Room Receptacles	1/2"C,1#12,#12N,#12G	20	Α			9 A	41 A	J G	60	3/4"C,2#4,#10G	Range	1B:12
1B:13	Kitchen/Living/Hall Lighting	1/2"C,1#12,#12N,#12G	20	Α	2 A	0 A				20	1/2"C 2#12 #12C	VTAC 12	1B:14
1B:15	Bathroom	1/2"C,1#12,#12N,#12G	20				3 A	0 A		20	1/2"C,2#12,#12G	VTAC-12	1B:16
1B:17	Bedroom	1/2"C,1#12,#12N,#12G	20	Α	6 A	2 A			AG	20	1/2"C,1#12,#12N,#12G	Clothes Washer Receptacle	1B:18
1B:19	Spare		20				0 A	0 A		20		Spare	1B:20
1B:21	Spare		20		0 A							Surge Protection	1B:22
1B:23	Spare		20				0 A					Surge Protection	1B:24

	Installed Location: Voltage: 120/208 1PH 3W-1Ph-3W Mounting: Surface Enclosure: NEMA 1			Bus A MCB A Featu odificat	.mps: ires &	MLO				SCCR/AIC: 22.0 kA Mains FN/Note: -				
Ckt	Description	Circuitry	Trip (A)	FN		4	E	3	FN	Trip (A)	Circuitry	Description	Ckt	
HA:1	East Breezeway Lights	1/2"C,1#12,#12N,#12G	20		310	360				20	1/2"C,1#12,#12N,#12G	FACP	HA:2	
HA:3	West Breezeway Lights	1/2"C,1#12,#12N,#12G	20				310	360		20	1/2"C,1#12,#12N,#12G	Fire Sprinkler Flow Switches	HA:4	
HA:5	Exterior Lighitng	3/4"C,1#10,#10N,#10G	20		340	360				20	1/2"C,1#12,#12N,#12G	Heat Trace Circuit #1	HA:6	
HA:7	Parking Lot Pole Mounted Lights	3/4"C,1#10,#10N,#10G	20				291	0 VA		20	1/2"C,1#12,#12N,#12G	Heat Trace Circuit #2	HA:8	
HA:9	Exterior Receptacles/ Fire A113 Lighting	1/2"C,1#12,#12N,#12G	20		607	180				20	1/2"C,1#12,#12N,#12G	Fire Sprinkler Air Compressor	HA:10	
HA:11 HA:13	Timeclock Telecomm	1/2"C,1#12,#12N,#12G 1/2"C,1#12,#12N,#12G	20 20		360	150	360	150		20	1/2"C,2#12,#12G	Electric Wall Heater 'EWH-1'	HA:12	
HA:15	Future Radon Fans	1/2"C,1#12,#12N,#12G	20				720	211		30	1/2"C,2#10,#10G	Domestic Water Booster Pump	HA:16	
HA:17	Monument Sign Lights	3/4"C,1#10,#10N,#10G	20		222	211				00	172 0,211 10,11 100	·	HA:18	
HA:19	Spare		20				0 VA					Space	HA:20	
HA:21	Spare		20		0 VA							Surge Protection	HA:22	
HA:23	Spare		20				0 VA			l l	<u></u>	Surge Protection	HA:24	

Designation: 2B	
Installed Location:	Bus Amps : 150
Voltage: 120/208 1PH 3W-1Ph-3W	MCB Amps: MLO
Mounting: Flush	Features &

mps: MLO Features & Modifications: -

SCCR/AIC: 22.0 kA

Designation: C

Ckt	Description	Circuitry	Trip (A)	FN		A	ı	В	FN	Trip (A)	Circuitry	Description	С
2B:1	Kitchen Receptacles	1/2"C,1#12,#12N,#12G	20	AG	5 A	0 A				20	1/0"0 0#10 #100	Floatria Water Hooting	2E
2B:3	Kitchen Receptacles	1/2"C,1#12,#12N,#12G	20	AG			9 A	0 A		20	1/2"C,2#12,#12G	Electric Water Heating	2E
2B:5	Dishwasher	1/2"C,1#12,#12N,#12G	20	AG	4 A	41 A			_	60	3/4"C,2#4,#10G	Clothes Dryer	2E
2B:7	Refrigerator	1/2"C,1#12,#12N,#12G	20	AG			2 A	41 A	G	00	3/4 C,2#4,#10G	Clothes Dryer	2E
2B:9	Hood/Microwave	1/2"C,1#12,#12N,#12G	20	AG	2 A	41 A			_	60	3/4"C,2#4,#10G	Dange	2B
2B:11	Living Room Receptacles	1/2"C,1#12,#12N,#12G	20	Α			8 A	41 A	G	00	3/4 C,2#4,#10G	Range	2B
2B:13	Kitchen/Living/Hall Lighting	1/2"C,1#12,#12N,#12G	20	Α	2 A	8 A				20	1/2"C 2#12 #12C	VTAC 10	2B
2B:15	Bathroom	1/2"C,1#12,#12N,#12G	20				2 A	8 A		20	1/2"C,2#12,#12G	VTAC-18	2B
2B:17	Bedroom 1	1/2"C,1#12,#12N,#12G	20	Α	5 A	2 A			AG	20	1/2"C,1#12,#12N,#12G	Clothes Washer Receptacle	2B
2B:19	Bedroom 2	1/2"C,1#12,#12N,#12G	20	Α			9 A	5 A		20	1/2"C,1#12,#12N,#12G	Laundry/Hall Receptacles	2B
2B:21	Spare		20		0 A							Surge Protection	2B
2B:23	Spare		20				0 A					Surge Protection	2B

	Installed Location: Voltage: 120/208 1PH 3W-1Ph-3W Mounting: Surface Enclosure: NEMA 1			MCB . Feat	Amps: 100 Amps: MLoures & ations: -				SCCR/AIC: 42.0 kA Mains FN/Note: -				
Ckt	Description	Circuitry	Trip (A)	FN	A		В	FN	Trip (A)	Circuitry	Description		
HB:1	East Breezeway Lights	1/2"C,1#12,#12N,#12G	20		310 360				20	1/2"C,1#12,#12N,#12G	FACP		
HB:3	West Breezeway Lights	1/2"C,1#12,#12N,#12G	20			310	360		20	1/2"C,1#12,#12N,#12G	Fire Sprinkler Flow Switches		
HB:5	Exterior Lighitng	1/2"C,1#12,#12N,#12G	20		193 360				20	1/2"C,1#12,#12N,#12G	Heat Trace Circuit #1		
HB:7	Parking Lot Pole Mounted Lights	3/4"C,1#10,#10N,#10G	20			264	. 0 VA		20	1/2"C,1#12,#12N,#12G	Heat Trace Circuit #2		
HB:9	Exterior Receptacles/ Fire A113 Lighting	1/2"C,1#12,#12N,#12G	20		787 180				20	1/2"C,1#12,#12N,#12G	Fire Sprinkler Air Compressor		
HB:11	Timeclock	1/2"C,1#12,#12N,#12G	20			360	. 150		20	3/4"C 3#0 #0C	Floatric Well Hooter FWH 4		
HB:13	Telecomm	1/2"C,1#12,#12N,#12G	20		360 150				20	3/4"C,2#8,#8G	Electric Wall Heater 'EWH-1'		
HB:15	Future Radon Fans	1/2"C,1#12,#12N,#12G	20			720	211		30	3/4"C,2#8,#8G	Demostic Water Reactor Dump		
HB:17	Spare		20		0 VA 211				30	3/4 0,2#0,#00	Domestic Water Booster Pump		
HB:19	Spare		20			0 VA					Space		
HB:21	Spare		20		0 VA						Surge Protection		
HB:23	Spare		20			0 VA					Surge Protection		

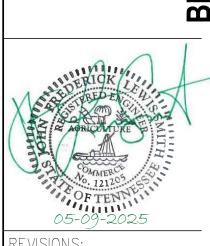
Des	Signation: 3B Installed Location: Voltage: 120/208 1PH 3W-1Ph-3W Mounting: Flush Enclosure: NEMA 1			MCB Feat	Amps: Amps: ures & ations:	MLO					Ма	SCCR/AIC: 22.0 kA ains FN/Note: -	
Ckt	Description	Circuitry	Trip (A)	FN		A		В	FN	Trip (A)	Circuitry	Description	Ckt
3B:1	Kitchen Receptacles	1/2"C,1#12,#12N,#12G	20	AG	5 A	41 A			G	60	2/4"C 2#4 #40C	Downe	3B:2
3B:3	Kitchen Receptacles	1/2"C,1#12,#12N,#12G	20	AG			9 A	41 A	G	60	3/4"C,2#4,#10G	Range	3B:4
3B:5	Dishwasher	1/2"C,1#12,#12N,#12G	20	AG	4 A	41 A			G	60	3/4"C,2#4,#10G	Clathan Dryon	3B:6
3B:7	Refrigerator	1/2"C,1#12,#12N,#12G	20	AG			2 A	41 A	G	00	3/4 0,2#4,#100	Clothes Dryer	3B:8
3B:9	Hood/Microwave	1/2"C,1#12,#12N,#12G	20	AG	2 A	0 A				20	1/2"C,2#12,#12G	Electric Water Heating	3B:10
3B:11	Living Room Receptacles	1/2"C,1#12,#12N,#12G	20	Α			8 A	0 A		20	1/2 0,2#12,#129	Electric Water Heating	3B:12
3B:13	Kitchen/Living/Hall Lighting	1/2"C,1#12,#12N,#12G	20	Α	2 A	8 A				20	1/2"C,2#12,#12G	VTAC-18	3B:14
3B:15	Hall Bathroom	1/2"C,1#12,#12N,#12G	20				2 A	8 A		20	1/2 0,2#12,#129	VIAC-10	3B:16
3B:17	Bedroom 2	1/2"C,1#12,#12N,#12G	20	Α	6 A	2 A			AG	20	1/2"C,1#12,#12N,#12G	Clothes Washer Receptacle	3B:18
3B:19	Bedroom 3	1/2"C,1#12,#12N,#12G	20	Α			8 A	5 A	Α	20	1/2"C,1#12,#12N,#12G	Laundry/Hall Receptacles	3B:20
3B:21	Master Bedroom	1/2"C,1#12,#12N,#12G	20	Α	8 A							Surge Protection	3B:22
3B:23	Master Bathroom	1/2"C,1#12,#12N,#12G	20				2 A					Surge Protection	3B:24

	Installed Location: A117 MECH Voltage: 120/208 1PH 3W-1Ph-3W Mounting: Surface Enclosure: NEMA 1			MCB A	Amps: 200 Amps: MLC ures & tions: Prov)	egral S	SCCR/AIC: 10.0 kA Mains FN/Note: - Surge Protection					
Ckt	Description	Circuitry	Trip (A)	FN	Α		В	FN	Trip (A)	Circuitry	Description	Ckt	
C:1	Lighting - Office, Community, Kitchenette , Mech	1/2"C,1#12,#12N,#12G	20		460 900.				20	1/2"C,1#12,#12N,#12G	Receptacle - Office A114	C:2	
C:3	Lighting - Rest Rooms, Hall, Fitness, Storage	1/2"C,1#12,#12N,#12G	20			413	. 720		20	1/2"C,1#12,#12N,#12G	Receptacle - Community Room A115	C:4	
C:5	Receptacle - Hall A120	1/2"C,1#12,#12N,#12G	20		720 720.				20	1/2"C,1#12,#12N,#12G	Receptacle - Kitchenette A116	C:6	
C:7	Receptacle - Fitness A121	1/2"C,1#12,#12N,#12G	20			720	. 839		20	1/2"C,1#12,#12N,#12G	Receptacle - Mech A117	C:8	
C:9	Receptacle - Fitness A121	1/2"C,1#12,#12N,#12G	20		720 360.				20	1/2"C,1#12,#12N,#12G	Receptacle - Storage A122	C:10	
C:11	Receptacle - Fitness A121	1/2"C,1#12,#12N,#12G	20				. 360		20	1/2"C,1#12,#12N,#12G	Receptacle - Storage A122	C:12	
C:13	Receptacle - Dishwasher	1/2"C,1#12,#12N,#12G	20		500 234.				30	1/2"C,2#10,#10G	Hot Water Heater 'HWH-B'	C:14	
C:15	Receptacle - Disposal	1/2"C,1#12,#12N,#12G	20			680	. 234		30	1/2 0,2#10,#100	not water neater nwn-b	C:16	
C:17	Receptacle - Refrigerator	1/2"C,1#12,#12N,#12G	20		180 221.				30	1/2"C,2#10,#10G	Blower Coil 'BC-1'	C:18	
C:19	Heater 'EH-1'	1/2"C 2#10 #10C	30				. 221		30	1/2 0,2#10,#100	blower Coil bC-1	C:20	
C:21	nealer En-1	1/2"C,2#10,#10G	30		183 156.				20	1/2"C,2#12,#12G	Hoot Dump 'UD 1'	C:22	
C:23	Receptacle - Office A114 (Controlled)	1/2"C,1#12,#12N,#12G	20			720	. 156		20	1/2 0,2#12,#120	Heat Pump 'HP-1'	C:24	
C:25	Other		20		360						Space	C:26	
C:27	Spare		20			0 VA					Space	C:28	
C:29	Spare		20		0 VA						Space	C:30	
C:31	Spare	-	20			0 VA					Space	C:32	
C:33	Space	-									Space	C:34	
C:35	Space	-									Space	C:36	
C:37	Space										Space	C:38	
C:39	Space										Space	C:40	
C:41	Space										Space	C:42	
	Connected Load: 12865 VA 13117 VA Connected Amps: 124 A 126 A												

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General Plan Symbols **HVAC Symbols** Plan Revision Number 24"/12" Sq. Duct Size (Width/Height) Oval Duct Size (Width x Height) Detail Number on Sheet 24"x12"FO Sheet Number Where Detail is Placed Round Duct Size (Diameter) 18"Ø Keynote Symbol **Existing Duct To Remain** Continuation Symbol Duct To Be Demolished Point Where New Connects To Existing S/A Supply Air Room Name / Number V/A Ventilation Air Area Being Demolished O/A Outdoor Air R/A Return Air Electrical Equipment. T/A Transfer Air Do not route HVAC installation above or below equipment. Maintain working clearance as indicated by dashed line. E/A General Exhaust Air KED Kitchen Exhaust Duct Flue Gas Vent C/A Combustion Air **Abbreviations** Rect. Supply Duct Rise / Drop ROUND LVR LOUVER ABOVE LWT LEAVING WATER TEMPERATURE AIR CONDITIONING M/A MIXED AIR Round Supply Duct Rise / Drop AREA DRAIN MAXIMUM ADD ADDENDUM MBH ONE THOUSAND BTU PER HOUR Rect. Return Duct Rise / Drop AFF ABOVE FINISHED FLOOR MCF ONE THOUSAND CUBIC FEET AFUE ANNUAL FUEL UTILIZATION EFFICIENCY MD MOTORIZED DAMPER Round Return Duct Rise / Drop ALT ALTERNATE MECH MECHANICAL ACCESS PANEL MFR MANUFACTURER ARCH ARCHITECT/ARCHITECTURAL MIN MINIMUM Rect. Exhaust Duct Rise / Drop BFF BELOW FINISHED FLOOR MISCELLANEOUS BLW BELOW MTR MOTOR Round Exhaust Duct Rise / Drop BTU BRITISH THERMAL UNITS MU/A MAKE-UP/AIR BTUH BRITISH THERMAL UNITS PER HOUR NC NOISE CRITERIA CAP CAPACITY NORMALLY CLOSED CB CATCH BASIN NOT IN CONTRACT Square Ceiling CFM CUBIC FEET PER MINUTE NUMBER Type (See Schedule) CLG CEILING NORMALLY OPEN CD- 500 Airflow CO CLEAN OUT NOT TO SCALE NTS CW COLD WATER OXYGEN DEGREE OUTSIDE AIR Round Ceiling Type (See Schedule) DB DRY BULB ORD OVERFLOW ROOF DRAIN DIA DIAMETER PRESSURE DROP Airflow DN DOWN POST INDICATOR VALVE CD11 | 100 | Neck Size DW DISTILLED WATER PLBG PLUMBING TYP. X 4 Type Count for Space EACH PRESS PRESSURE ENTERING AIR TEMPERATURE PRV PRESSURE REDUCING VALVE Sidewall Supply

Grille

Type (See Schedule) ELEC ELECTRICAL PSI POUNDS PER SQUARE INCH SG5 300 Airflow Grille EQUIP EQUIPMENT PSIG POUNDS PER SQUARE INCH GAUGE ■ Nominal Duct Size EWC ELECTRIC WATER COOLER POWER AFF:0" Mounting Elevation (Centerline) EWT ENTERING WATER TEMPERATURE DUCT RISER Linear Diffuser Type (See Schedule) E/A EXHAUST AIR RETURN AIR RADIANT CEILING PANEL EXIST EXISTING SD- 200 Airflow
8"Ø/2s/4'-0"L Neck Size/ Slot(s)/ Active Length DEGREES FAHRENHEIT ROOF DRAIN RD FCO FLOOR CLEAN OUT REC RECESSED Sidewall Return Type (See Schedule) FLOOR DRAIN REDUCER RG6 200 Airflow
Nominal Duct Size
Mounting Elevation (Centerline) FDC FIRE DEPARTMENT CONNECTION RELATIVE HUMIDITY Grille RELIEF AIR FL FLOOR RL/A FO FUEL OIL RM ROOM FOV REVOLUTIONS PER MINUTE FUEL OIL VENT RPM Ceiling Return Type (See Schedule) FOR FUEL OIL RETURN RAIN WATER RW CR2 200
Airflow
Neck Size / Module Size FOS FUEL OIL SUPPLY SQUARE FOOT FEET PER MINUTE SUPPLY AIR FS SANITARY FLOOR SINK SAN FOOT/FEET SQUARE FOOT FTR FIN TUBE RADIATION SMOKE DAMPER Mechanical Equipment GAL SURFACE MOUNT GALLON GF GAS-FIRED STANDPIPE GC GENERAL CONTRACTOR STATIC PRESSURE GALLONS PER MINUTE GPM STM STEAM RTU-1 — Unit Identity GW THERMOSTAT GREASE WASTE HB TEMPERATURE DROP HOSE BIB HP HORSE POWER TRENCH DRAIN HTG TEMP TEMPERATURE HEATING E)AHU-2 Existing to Remain Equipment HTR HEATER TYP TYPICAL HW HOT WATER UNDERGROUND HYD HYDRANT VAC VACUUM INDIRECT ID VENT IN INCH VARIABLE AIR VOLUME VAV INV INVERT VENT VENTILATION Equipment By Others LB POUND VTR VENT THROUGH ROOF (Refer To Other Disciplines) LB/HR POUNDS PER HOUR WASTE WET BULB LAT LEAVING AIR TEMPERATURE WB Mechanical Control Devices WCO WALL CLEAN OUT LOW PRESSURE LPG LIQUEFIED PETROLEUM GAS WH WALL HYDRANT Humidistat **Equipment Abbreviations** AC AIR CONDITIONING UNIT ET EXPANSION TANK Temperature Sensor ACCU AIR COOLING CONDENSING UNIT EWH ELECTRIC WATER HEATER FCU FAN COIL UNIT AHU AIR HANDLING UNIT Humidity Sensor AS AIR SEPARATOR FP FIRE PUMP BOILER GI GREASE INTERCEPTOR CO2 Carbon Dioxide Detector GRV GRAVITY ROOF VENTILATOR CH CHILLER CT COOLING TOWER HWP HEATING WATER PUMP CUH CABINET UNIT HEATER HRU HEAT RECOVERY UNIT HZG Hazardous Gas Detector CHWP CHILLED WATER PUMP PRV POWER ROOF VENTILATOR DBP DOMESTIC WATER BOOSTER PUMP RE RETURN/EXHAUST FAN DC DUCT MOUNTED COIL RTU ROOFTOP UNIT DCP DOMESTIC WATER CIRCULATING PUMP SP SUMP PUMP Damper Types UH UNIT HEATER EF EXHAUST FAN —Manual Damper EDC ELECTRIC DUCT COIL WH WATER HEATER (M) —Motorized Damper ---- —Backdraft Damper —Smoke Damper $\qquad \qquad \blacksquare \qquad \qquad \blacksquare$ -Fire Damper * NOTE *
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN

HVAC SHEET INDEX

M0.1 HVAC TITLE SHEET M1.1 HVAC PLANS BUILDING A M1.2 HVAC PLANS BUILDING A M1.3 HVAC PLANS BUILDING B M1.4 HVAC PLANS BUILDING B M4.1 ENLARGED HVAC PLANS M4.2 ENLARGED HVAC PLANS M6.1 MECHANICAL SCHEDULES

GENERAL HVAC NOTES CONTRACTOR SHALL LOCATE THERMOSTATS AND HUMIDISTATS AT 4'-0" AFF UNLESS NOTED OTHERWISE. MAINTAIN A MINIMUM HORIZONTAL SEPARATION OF 8" FROM LIGHT SWITCHES. CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE TYPE "L" COPPER. WHERE INSTALLED ABOVE CEILINGS, CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH MINIMUM 1/2" FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET. ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G. UNLESS NOTED COORDINATE THE EXACT LOCATION OF ALL CEILING

DIFFUSERS, REGISTERS, AND GRILLES WITH LIGHTING. PROVIDE DIFFUSERS AND REGISTERS WITH 4-WAY BLOW PATTERN UNLESS OTHERWISE NOTED. HVAC EQUIPMENT SHALL NOT BE UTILIZED UNTIL ALL DUCT PRODUCING CONSTRUCTION ACTIVITY HAS BEEN

COMPLETED. CONTRACTOR SHALL BE REQUIRED TO OBTAIN APPROVAL FROM OWNER PRIOR TO EQUIPMENT STARTUP, AND TO REPLACE FILTERS ON HVAC EQUIPMENT UPON FINAL COMPLETION. LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWINGS ARE APPROXIMATE AND

SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING

SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM

ABOVE CEILING. ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOFS WITHOUT A 42" HIGH PARAPET OR GUARD RAIL. WHERE PROVIDING 10'-0" SEPARATION FROM ROOF EDGE IS NOT POSSIBLE, PROVIDE PERMANENT FALL ARREST ANCHORS COMPLIANT WITH ANSI/ASSP Z359.1.

COORDINATE WITH GENERAL CONTRACTOR. LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT OUTSIDE OF THE NEC REQUIRED CLEAR SPACE ABOVE AND AROUND ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT. COORDINATE WITH ELECTRICAL CONTRACTOR.

PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE U.L. LISTED. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED ASSEMBLIES.

PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF, MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.

TRANSITION FROM PIPING AND DUCTWORK SIZES SHOWN TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION

OF FLOW UNTIL ANOTHER SIZE IS SHOWN. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.

INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.

PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT AND MATERIALS. SUBSTITUTE EQUIPMENT INSTALLED WITHOUT PRIOR APPROVAL SHALL BE SUBJECT TO REPLACEMENT AT CONTRACTOR'S EXPENSE. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS

PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

GENERAL MECHANICAL DEMOLITION NOTES ALL PIPING TAKEN OUT OF SERVICE SHALL BE REMOVED. WHERE PIPING TO BE REMOVED IS CONNECTED TO EXISTING PIPING TO REMAIN, PIPING SHALL BE REMOVED BACK TO MAIN AND CAPPED, UNLESS INDICATED OTHERWISE. CONTRACTOR

DIRECTED BY OWNER. WHERE PIPING TAKEN OUT OF SERVICE IS LOCATED BELOW SLAB AND IS UNABLE TO BE REMOVED, CAP BELOW SLAB. ALL DUCTWORK TAKEN OUT OF SERVICE SHALL BE REMOVED. COORDINATE CUTTING, PATCHING OF EXISTING WALLS, CEILINGS, ROOF AND FLOORS AFFECTED BY MECHANICAL

SHALL DISPOSE OF PIPING OR DELIVER TO OWNER, AS

DEMOLITION WITH G.C. ALL EQUIPMENT TAKEN OUT OF SERVICE SHALL BE REMOVED. EQUIPMENT SHALL BE DELIVERED TO OWNER OR DISPOSED OF AS DIRECTED BY OWNER.

REMOVE ALL MECHANICAL INSTALLATION FROM PROJECT AREA, UNLESS REQUIRED FOR NEW WORK OR EXISTING INSTALLATION NOT AFFECTED BY REMODEL. COORDINATE WITH OWNER AND G.C. SERVICES TO ITEMS NOT REMOVED AS PART OF THIS WORK

SHALL BE RESTORED UPON COMPLETION OF THIS WORK TO FULLY OPERATIONAL CONDITION. NOT ALL ITEMS REQUIRED TO BE DEMOLISHED MAY BE INDICATED ON DRAWINGS. ALL DEMOLITION OF AFFECTED SPACE SHALL BE PERFORMED AS IF INDICATED. FIELD VERIFY EXACT LOCATION OF ALL EXISTING MECHANICAL INSTALLATION INDICATED ON DRAWINGS.

ALL ITEMS TO BE RE-USED OR RELOCATED SHALL BE CLEANED, REPAIRED, AND RESTORED TO LIKE NEW CONDITION PRIOR TO RE-USE.

Comb. Fire/

Smoke Damper

THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE

USED IN THIS SET OF DRAWINGS.

- DRYER EXHAUST DUCT ROUTED FROM THIRD FLOOR ROUTED AS HIGH AS
- ROUTE REFRIGERANT PIPING FROM HEAT PUMP TO BLOWER COIL. PENETRATE UTILIZE PIPE PENETRATION ASSEMBLY EQUAL TO AIREX TITAN OUTLET.
- MOUNT HEAT PUMP ON 3-1/2" CONCRETE PAD. COORDINATE EXACT LOCATION
- 9 PROVIDE ROOF JACK FOR EXHAUST TERMINATION.

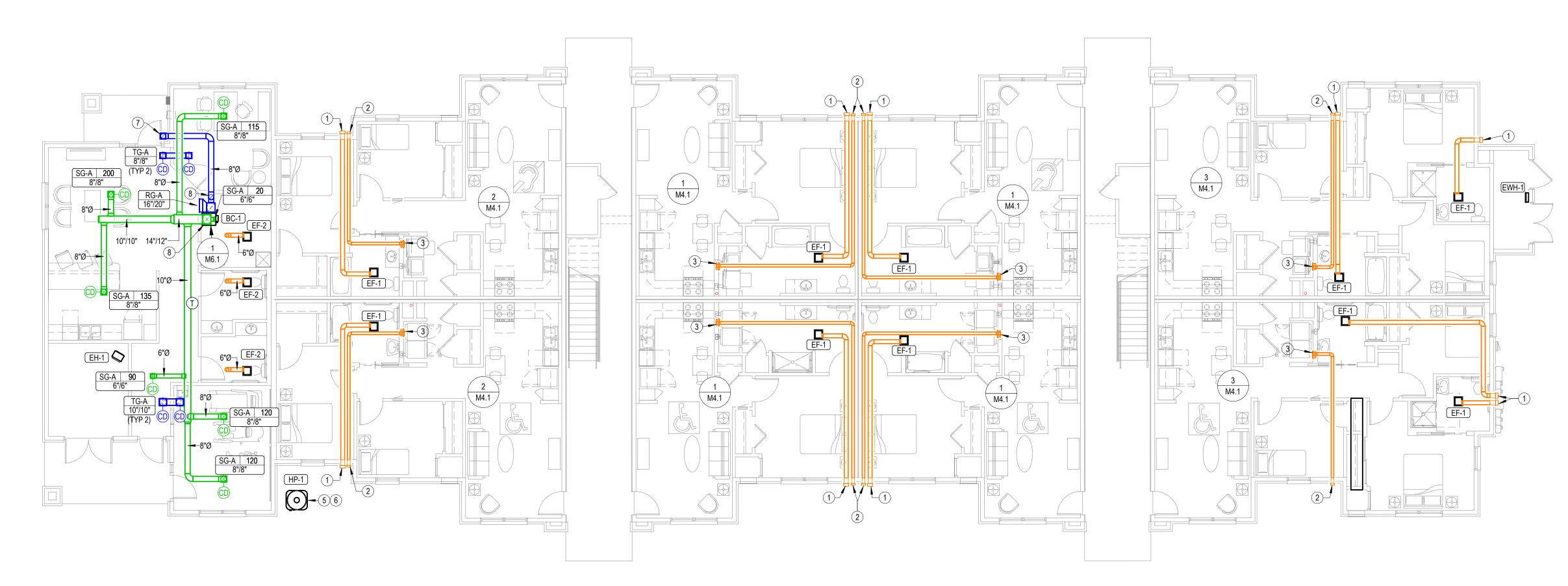
4" DRYER DUCT. SEE ENLARGED PLANS FOR MORE INFORMATION. COORDINATE FINAL LOCATION OF WALL CAP WITH ARCHITECT.

NOTE: ANNULAR SPACE AROUND DUCT IS TO BE SEALED AT ALL PENETRATIONS OF FLOORS AND CEILINGS WITH U.L. LISTED FIRE STOPPING SYSTEM.

- POSSIBLE BELOW THIRD FLOOR TO MANUFACTURES WALL CAP.
- WALL 18" AFG AND ROUTE PIPING CONCEALED IN WALLS AND ABOVE CEILINGS.
- PROVIDE 8"x8" ALUMINUM OUTDOOR AIR GRILLE EQUAL TO TITUS MODEL 301.
- PROVIDE WITH BIRD SCREEN AND TRANSISTION TO 8" DIA. DUCT. 8 PROVIDE CEILING RADIATION DAMPER AT DUCT PENETRATION OF RATED CEILING

BUILDING A-SECOND FLOOR-HVAC PLAN 1/8" = 1'-0"

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RESERVES 뿔

CIRCLE

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NT COMPLEX

JonesGillamRe

TENNESEE

BROWNSVILLE

BUILDING A-FIRST FLOOR-HVAC PLAN
1/8" = 1'-0"

LENGTH OF DRYER DUCT INSTALLED PER IMC 504.

LOCATION WITH ARCHITECT.

PROVIDE UL LISTED DRYER BOX EQUAL TO IN-O-VATE TECHNOLOGIES IN WALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND ROUTE 4"Ø DRYER EXHAUST DUCT TO WALL CAP WITH BACKDRAFT DAMPER. SEE

NOTE: ANNULAR SPACE AROUND DUCT IS TO BE SEALED AT ALL PENETRATIONS

OF FLOORS AND CEILINGS WITH U.L. LISTED FIRE STOPPING SYSTEM. 2 ROUTE DRYER EXHAUST DUCT DOWN TO FLOOR BELOW. SEE 2:M1.1 FOR

3 ROUTE 6"Ø EXHAUST DUCT TO 4"Ø MANUFACTURER'S SOFFIT VENT. TRANSITION TO 4"Ø DUCT AS CLOSE TO SOFFIT VENT AS POSSIBLE. COORDINATE FINAL

OVERALL MECHANICAL PLANS FOR UNIT SPECIFIC ROUTING. MAXIMUM ALLOWABLE EQUIVALENT DUCT LENGTH = 35'. UTILIZE LONG RADIUS SMOOTH ELBOWS WHERE REQUIRED. MAXIMUM EQUIVALENT DUCT LENGTH MAY BE INCREASED WHERE DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS ALLOW, AND DOCUMENTATION IS PROVIDED TO CODE OFFICIAL PRIOR TO CONCEALMENT INSPECTION. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED. PROVIDE PERMANENT LABEL IDENTIFYING EQUIVALENT

CIRCLE

COBALT

THE RESERVES AT

BUILDING A-THIRD FLOOR-HVAC PLAN 1/8" = 1'-0"

FINAL LOCATION OF WALL CAP WITH ARCHITECT.

PROVIDE UL LISTED DRYER BOX EQUAL TO IN-O-VATE TECHNOLOGIES IN WALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND ROUTE 4"Ø DRYER EXHAUST DUCT TO WALL CAP WITH BACKDRAFT DAMPER. SEE OVERALL MECHANICAL PLANS FOR UNIT SPECIFIC ROUTING. MAXIMUM ALLOWABLE EQUIVALENT DUCT LENGTH = 35'. UTILIZE LONG RADIUS SMOOTH ELBOWS WHERE REQUIRED. MAXIMUM EQUIVALENT DUCT LENGTH MAY BE INCREASED WHERE DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS CONCEALMENT INSPECTION. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED. PROVIDE PERMANENT LABEL IDENTIFYING EQUIVALENT LENGTH OF DRYER DUCT INSTALLED PER IMC 504.

NOTE: ANNULAR SPACE AROUND DUCT IS TO BE SEALED AT ALL PENETRATIONS OF FLOORS AND CEILINGS WITH U.L. LISTED FIRE STOPPING SYSTEM.

DRYER EXHAUST DUCT ROUTED FROM THIRD FLOOR ROUTED AS HIGH AS POSSIBLE BELOW THIRD FLOOR TO MANUFACTURES WALL CAP.

JonesGillamRe

TENNESEE

NT COMPLEX NEW APARTMEI

CIRCLE

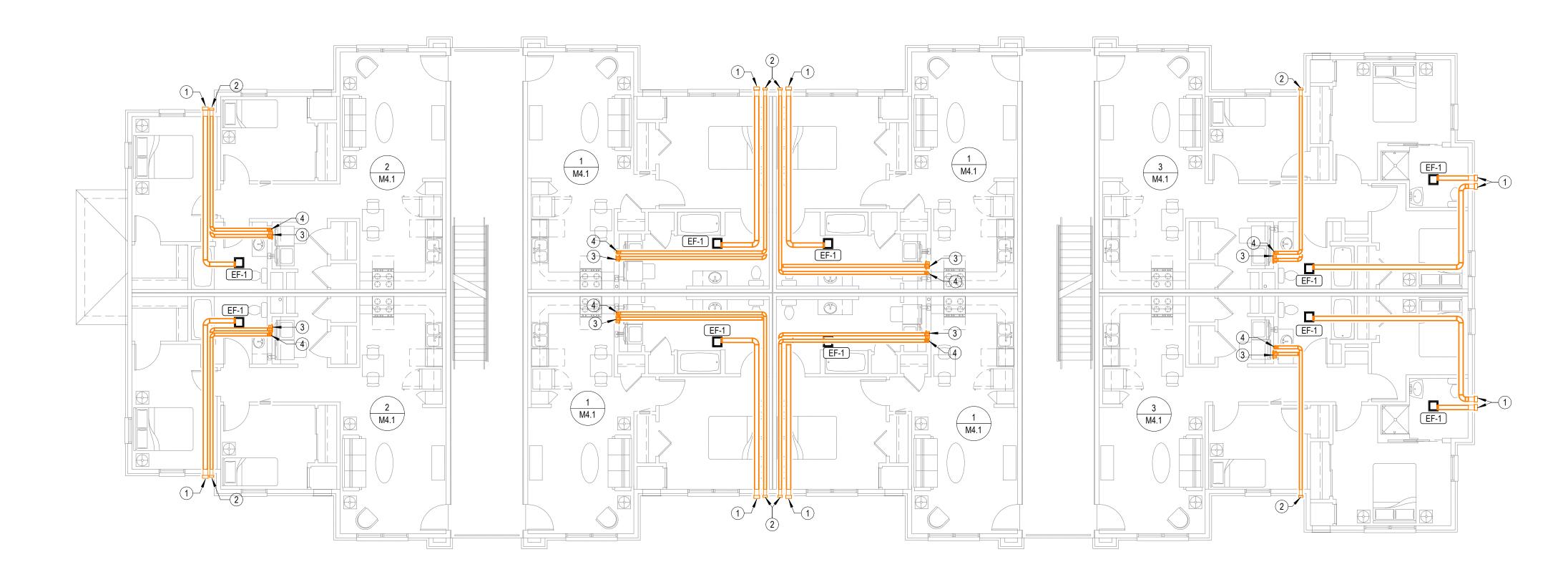
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RESERVES AT

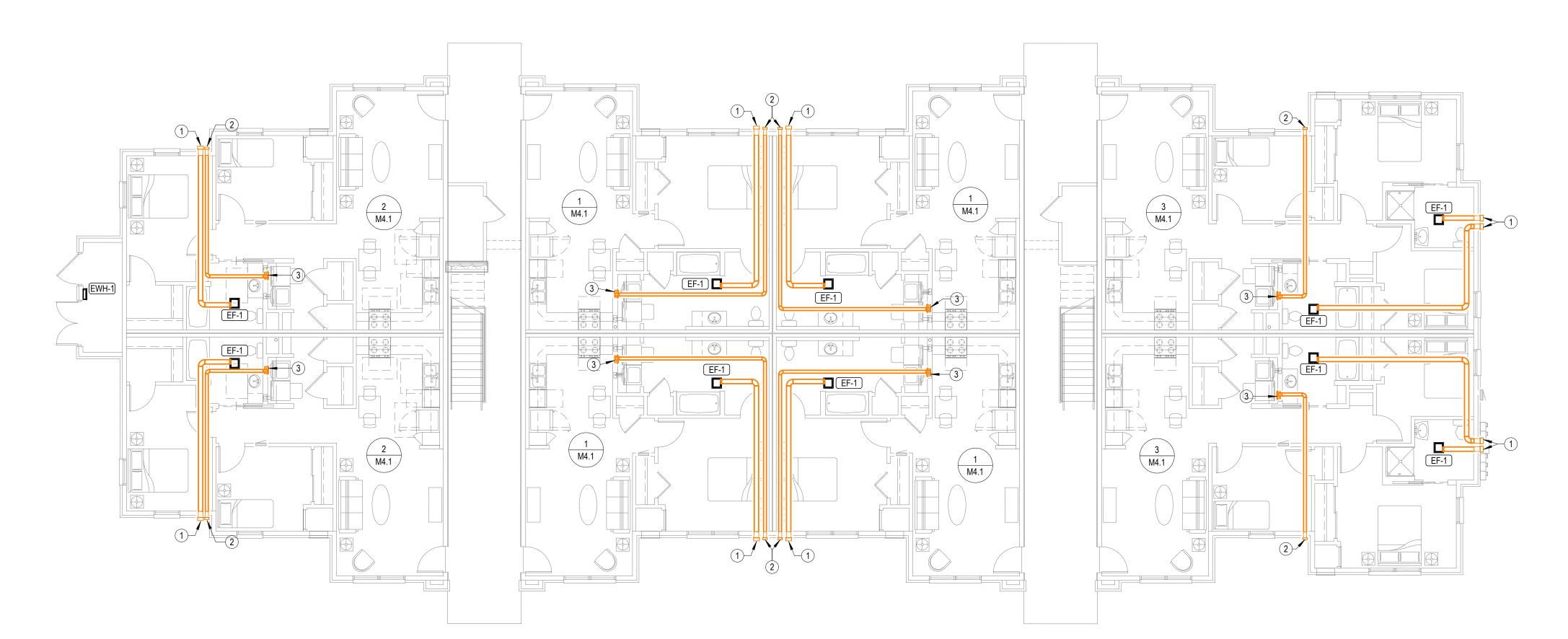
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SHEET NO .:

M1.3



BUILDING B-SECOND FLOOR-HVAC PLAN 1/8" = 1'-0"



CIRCLE

COBALT

RESERVES AT

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M1.4

LST Consulting Engineers, PA

MANHATTAN

4809 Vue Du Lac Place, Suite 201

Manhattan, KS 66503

785.587.8042

www.LSTengineers.com
mail@LSTengineers.com

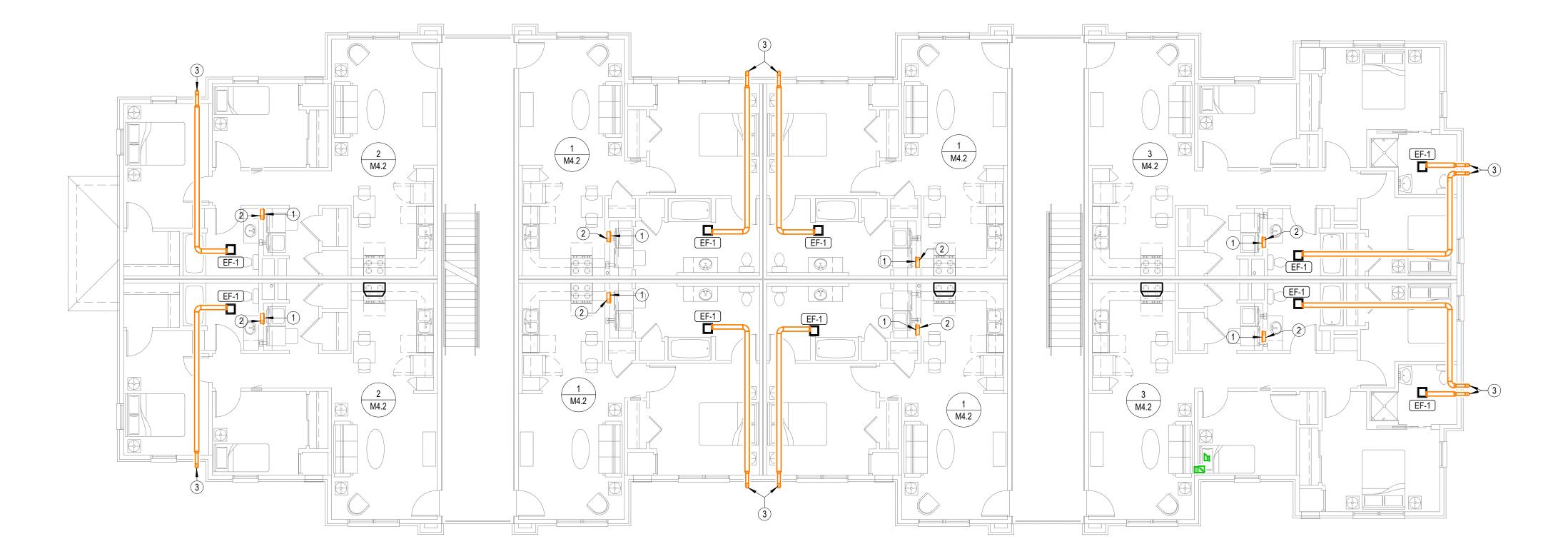
ME (100 (2005)) 05/09/2025

NOTES BY SYMBOL

PROVIDE UL LISTED DRYER BOX EQUAL TO IN-O-VATE TECHNOLOGIES IN WALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND ROUTE 4"Ø DRYER EXHAUST DUCT TO WALL CAP WITH BACKDRAFT DAMPER. SEE OVERALL MECHANICAL PLANS FOR UNIT SPECIFIC ROUTING. MAXIMUM ALLOWABLE EQUIVALENT DUCT LENGTH = 35'. UTILIZE LONG RADIUS SMOOTH ELBOWS WHERE REQUIRED. MAXIMUM EQUIVALENT DUCT LENGTH MAY BE INCREASED WHERE DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS ALLOW, AND DOCUMENTATION IS PROVIDED TO CODE OFFICIAL PRIOR TO CONCEALMENT INSPECTION. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED. PROVIDE PERMANENT LABEL IDENTIFYING EQUIVALENT LENGTH OF DRYER DUCT INSTALLED PER IMC 504.

NOTE: ANNULAR SPACE AROUND DUCT IS TO BE SEALED AT ALL PENETRATIONS OF FLOORS AND CEILINGS WITH U.L. LISTED FIRE STOPPING SYSTEM. 2 ROUTE DRYER EXHAUST DUCT DOWN TO FLOOR BELOW. SEE 2:M1.3 FOR

3 ROUTE 6"Ø EXHAUST DUCT TO 4"Ø MANUFACTURER'S SOFFIT VENT. TRANSITION TO 4"Ø DUCT AS CLOSE TO SOFFIT VENT AS POSSIBLE. COORDINATE FINAL LOCATION WITH ARCHITECT.

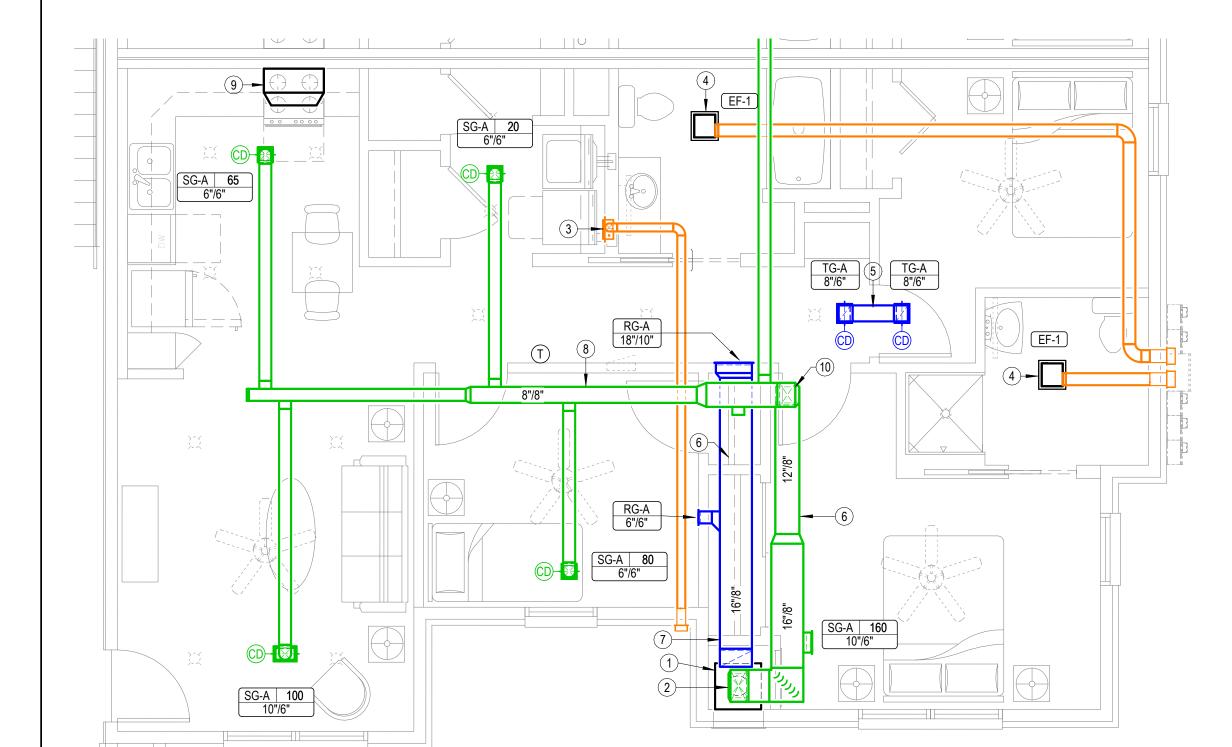


5 LINED TRANSFER DUCT. 6 ROUTE DUCTWORK IN SOFFIT. COORDINATE EXACT LOCATION WITH G.C. AND

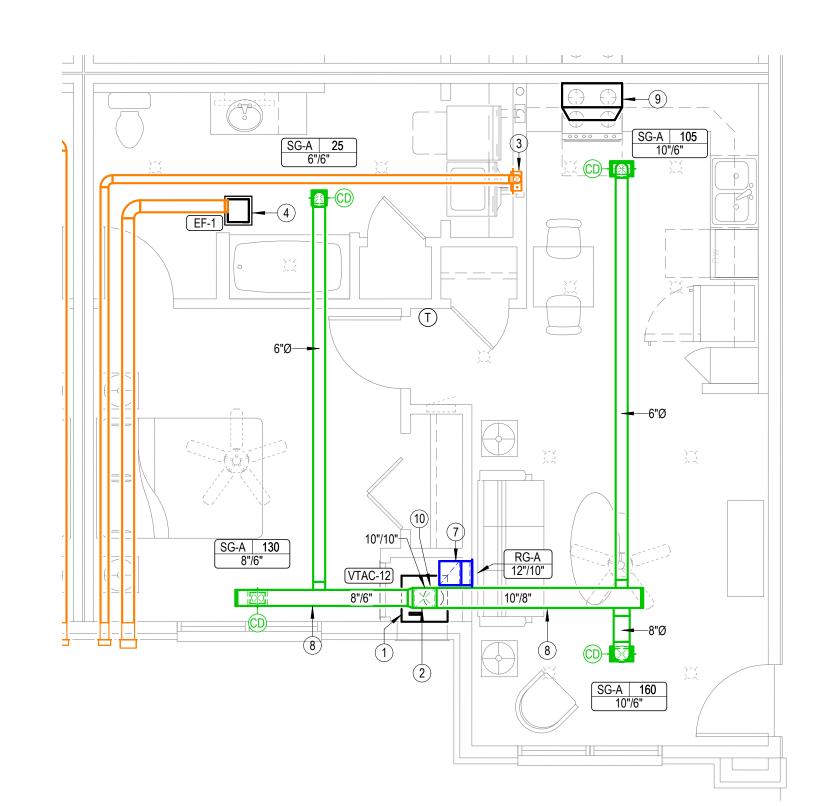
7 LINED RETURN DUCT TERMINATED WITH ELBOW DOWN IN VTAC CLOSET.

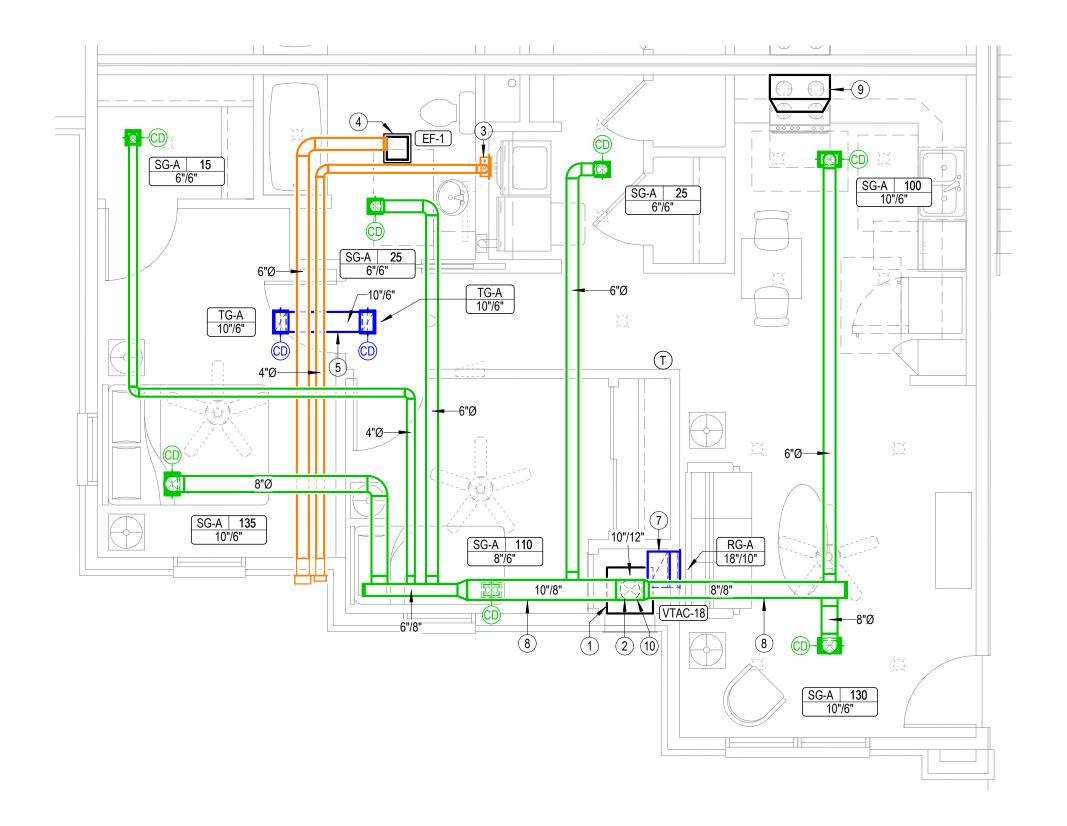
8 SUPPLY DUCT ROUTED HIGH BETWEEN JOISTS. 9 RECIRCULATING RANGE HOOD BY OTHERS.

10 ROUTE DUCTWORK UP INTO JOIST SPACE. PROVIDE CEILING RADIATION DAMPER AT PENETRATION OF RATED CEILING ASSEMBLY.



FIRST AND SECOND FLOOR 3 BEDROOM ENLARGED HVAC PLAN 1/4" = 1'-0"





FIRST AND SECOND FLOOR 1 BEDROOM ENLARGED HVAC PLAN
1/4" = 1'-0" 2 CIRCLE

COBALT

AT

RESERVES

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SHEET NO .:

4 SEE M1.1, M1.2, M1.3, AND M1.4 FOR BATHROOM EXHAUST DUCT ROUTING.

ROUTE DUCTWORK IN SOFFIT. COORDINATE EXACT LOCATION WITH G.C. AND

7 LINED RETURN DUCT TERMINATED WITH ELBOW DOWN IN VTAC CLOSET.8 RECIRCULATING RANGE HOOD BY OTHERS.

JonesGillamRenz

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NT COMPLEX

CIRCLE

COBALT

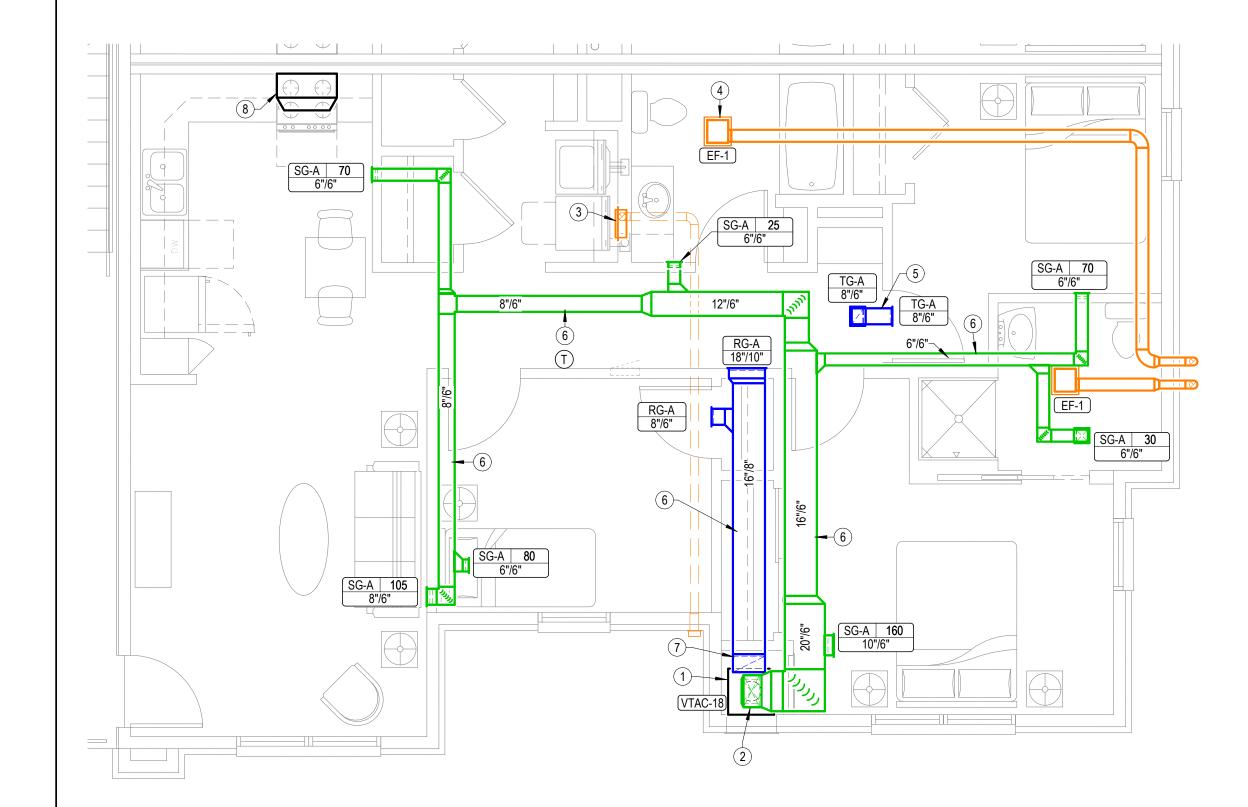
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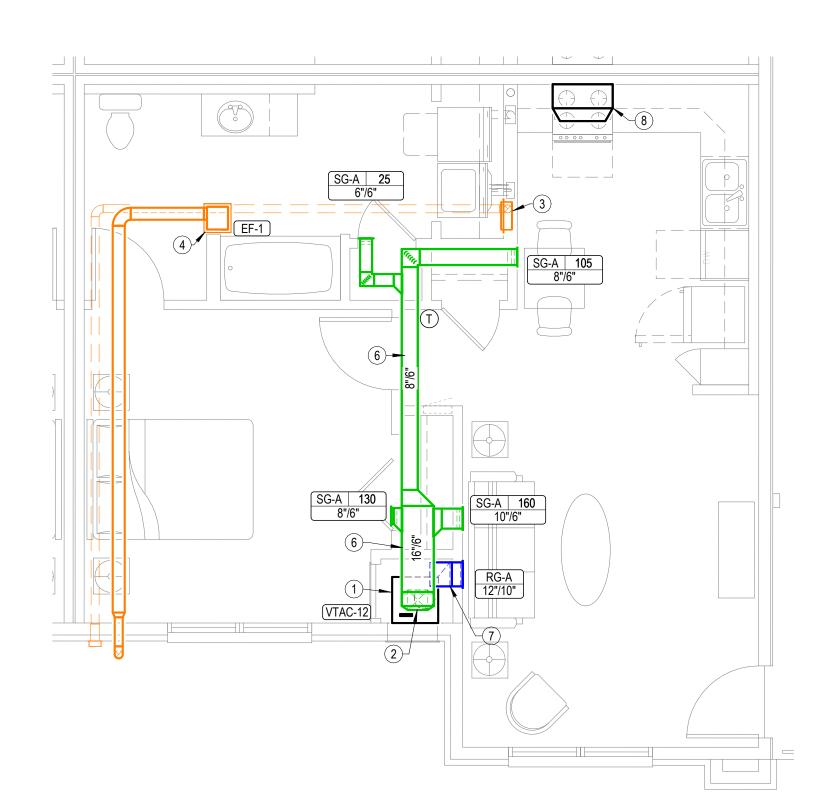
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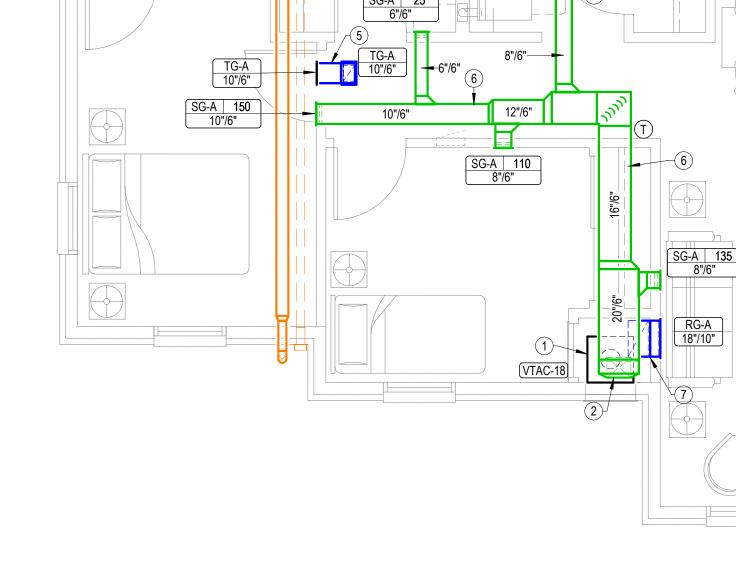
BROWNSVILLE

M4.2



THIRD FLOOR 3 BEDROOM ENLARGED HVAC PLAN 1/4" = 1'-0"





Verify finish with Architect.

Provide devices with radiation dampers as required in rated ceilings. Coordinate with Architect.

Architect.

Exhaus	st Fan Schedı	ıle							
Mark	Manufacturer	Model	CFM	ESP	Dower	Elect	rical	Notes	
Wark	Manufacturer	wodei	CFIVI	ESP	Power	Voltage	Phase	Notes	
EF-1	Panasonic	FV-0511VQ1	80 CFM	0.25 in-wg	11 W	120 V	1	1,2,3,4,5,6	
EF-2 Panasonic FV-0511VQ1 50 CFM 0.25 in-wg 7 W 120 V 1									
2. F 3. F 4. F 5. F	Fixture shall be Energy Fixture shall operate at Provide with EC motor Provide manufacturer's Provide integral backdrivovide with manufacture state.	< 1 SONE. with integral disconne wall cap or roof jack, aft damper.	see plans.	radiation damper	s where rate	ed ceilings ar	e not prese	ent, coordinate witl	

Mark	Manufacturer	Model	Mounting	Watts	Voltage	Phase	Description	Notes
EWH-1	Trane	UHWA	Wall	3.0 kW	208 V	1	Architectural fan forced wall heater	1,2,3
2. Pr	rovide with high tempe rovide with integral the rovide with manufactur	rmostat and unit	mounted disconnect					

Electri	c Unit Heater	Schedule						
Mark	Manufacturer	Model	Mounting	Watts	Voltage	Phase	Description	Notes
EH-1	Berko	RUX300812	Unit	3.0 kW	208 V	1	Explosion proof heater	1,2,3,4
2. F 3. F	Provide with 24V therm Provide with mounting Provide with integral di Mount as high as possi	bracket as require sconnect switch.		ons.				

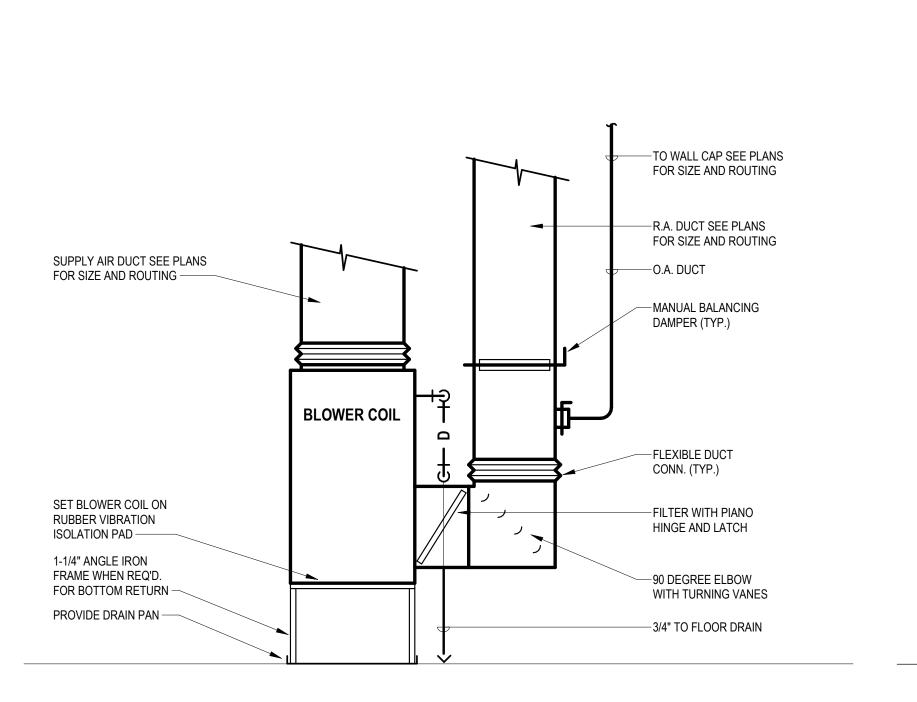
					C	OOLING				HEATING						ELEC	TRICAL		
MARK	MANUFACTURER	MODEL NUMBER	OA DB	ENT DB	ENT WB	SENSIBLE COOLING	TOTAL COOLING	SEER2	TOTAL HEATING	HSPF2	ELECTRIC HEAT OUTPUT	AIRFLOW	ESP	FAN SPEED	MCA	МОСР	VOLTAGE	PHASE	NOTES
VTAC-12	Friedrich	VHA12 - 34RTQ	95 °F	75 °F	63 °F	6,797 Btu/h	9,850 Btu/h	14.3	10,400 Btu/h	7.5	2.7 kW	420 CFM	0.30 in-wg	HIGH	19 A	20 A	208 V	1	
/TAC-18	Friedrich	VHA18 - 50RTQ	95 °F	75 °F	63 °F	12,248 Btu/h	16,330 Btu/h	14.3	16,000 Btu/h	7.5	4.1 kW	560 CFM	0.30 in-wg	HIGH	28 A	30 A	208 V	1	
2. F 3. F 4. F	Provide with access pa Provide with accessory Provide with wall plenu Provide with wired prog	drain pan. Im and accessory arch	t.		as selected by	architect.													

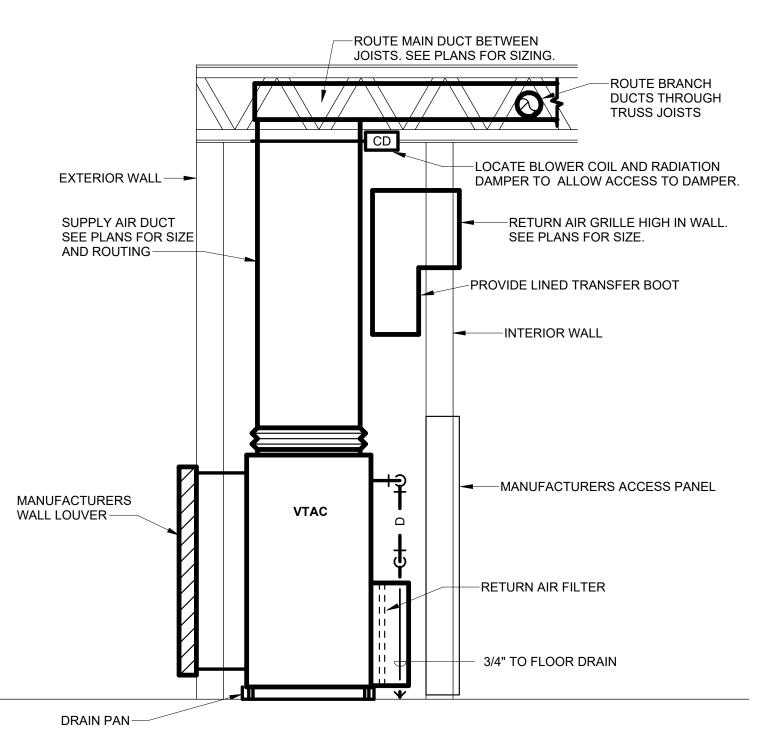
Provide filter bracket at unit with minimum MERV 6 filter.

8. Provide with integral disconnect switch.

			Naminal				Cooling Capa	acity				eating Capacity				ctrical	
Гуре ID	Manufacturer	Model	Nominal Capacity	EDB	EDB	EWB	Net Sensible Capacity	Rated Cooling Capacity	SEER2 Rating	OA EDB	EDB	Rated Heating Capacity	HSPF2 Rating	Phase	MCA	МОСР	Voltage
HP-1	Trane	4TWR4024	2.0 ton	105 °F	80 °F	67 °F	17,200 Btu/h	22,200 Btu/h	14.3	47 °F	70 °F	22,500 Btu/h	7.5	1	15 A	25 A	208 V

	No muse of the man	Madal		Fan		114:	Elec	trical		MOOD
Mark	Manufacturer	Model	Airflow	ESP	Speed	Heating	Voltage	Phase	MCA	MOCP
BC-1	Trane	TEM4A0B31	800 CFM	0.50 in-wg	Medium	5.8 kW	208 V	1	38 A	40 A





ROUTE DUCTWORK IN SOFFIT BELOW RATED CEILING. SEE PLANS FOR SIZING. EXTERIOR WALL ---SUPPLY AIR DUCT SEE PLANS FOR SIZE AND ROUTING -RETURN AIR GRILLE HIGH IN WALL. SEE PLANS FOR SIZE. -PROVIDE LINED TRANSFER BOOT ✓——INTERIOR WALL MANUFACTURERS ACCESS PANEL MANUFACTURERS VTAC WALL LOUVER -RETURN AIR FILTER 3/4" TO FLOOR DRAIN

VTAC COIL DETAIL 3RD FLOOR
NO SCALE

DRAIN PAN-

CIRCLE

TENNESEE

GillamRenz

COMPLE OB, **NEW APARTME** AT RESERVES

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BROWNSVILLE

24-3446 SHEET NO .:

M6.1

	General Plan	Symbols		Plumbing	Symbols
	Plan Revision Nu	mber		2"	Nominal Pipe Size
	- Detail Number or	n Shoot			Above Ground Piping
		here Detail is Plac	ced	1/8" / 12" SLOPE	Below Ground PipingPipe Slope (When Applicable
	//www.ta.0hal			(E)	Existing Pipe To Remain
	# Keynote Symbol				Pipe To Be Demolished
	Continuation Syn	nbol			Domestic Cold-Water
	Point Where Nev	v Connects To Exi	sting	—	Non-Potable Water
				S-CW	Soft Cold-Water
	Room Name / Nu	ımber		F-CW	Filtered Cold-Water
	Area Being Demo	nlished		R0	Reverse Osmosis Water
	A A A A A	Jiistica		——HW—— — —	Domestic Hot-Water
	Area Not In Conti	ract		—HW 140°— — —	Domestic Hot-Water 140°
	: Electrical Equipme	ont.		—HW-R 140° — — —	Hot-Water Recirculation Hot-Water Recirculation 140°
	Do not route HVA	C installation abov	ve or below equipment.	SS	Sanitary Drain
	Maintain working	clearance as indic	ated by dashed line.		Sanitary Vent
					Radon Mitigation
					Sanitary Wet Vent
				CWV	Combination DWV
				CD	Condensate Drain
	Abbrevia	tions			Indirect Drain
Ø	ROUND	LVR LOU\		GW	Grease Waste
ABV	ABOVE AIR CONDITIONING		'ING WATER TEMPERATURE D AIR	— — — GV- — —	Grease Vent
AC AD	AREA DRAIN	MAX MAXI		PD	Pump Discharge
ADD AFF	ADDENDUM ABOVE FINISHED FLOOR	MCF ONE	THOUSAND CUBIC FEET	SD	Storm Drain
AFUE ALT	ANNUAL FUEL UTILIZATION EFFICIENCY ALTERNATE	MECH MECH	ORIZED DAMPER HANICAL	OSD-	Storm Overflow
AP	ACCESS PANEL	MFR MANU MIN MININ	JFACTURER MUM	CA	Compressed Air
ARCH BFF	ARCHITECT/ARCHITECTURAL BELOW FINISHED FLOOR		ELLANEOUS		Natural Gas
BLW BTU	BELOW BRITISH THERMAL UNITS	MU/A MAKE	E-UP/AIR		Liquid Propane Pipe Rise / Drop
BTUH CAP	BRITISH THERMAL UNITS PER HOUR CAPACITY	NC NORI	E CRITERIA MALLY CLOSED		ripe Nise / Drop
CB	CATCH BASIN	NIC NOT NO NUMI	IN CONTRACT BER	Pipe Accessory Notes	Q1
CFM CLG	CUBIC FEET PER MINUTE CEILING	NO NORI	MALLY OPEN TO SCALE	4" FCO	Cleanout Check Valve
CO CW	CLEAN OUT COLD WATER	O OXYO	GEN	2" BALANCE	Balancing Valve
D DB	DEGREE DRY BULB	ORD OVER	SIDE AIR RFLOW ROOF DRAIN	2" CIRC	Circuit Setter
OIA	DIAMETER DOWN		SSURE DROP FINDICATOR VALVE	2" GATE	Gate Valve
DN DW	DISTILLED WATER	PLBG PLUM	MBING SSURE		
EA EAT	EACH ENTERING AIR TEMPERATURE	PRV PRES	SSURE REDUCING VALVE	1	Ball Valve
ELEC EQUIP	ELECTRICAL EQUIPMENT	PSIG POU	NDS PER SQUARE INCH NDS PER SQUARE INCH GAUGE	2" STRAIN	Fluid Strainer
EWC EWT	ELECTRIC WATER COOLER ENTERING WATER TEMPERATURE	PWR POW R DUC	ER Friser	1" GAS-CNTRL	Emergency Gas Shutoff
Ξ/A	EXHAUST AIR	R/A RETU	JRN AIR ANT CEILING PANEL	I ♥ I ■ 1" PLUG	Plug Valve
EXIST	EXISTING DEGREES FAHRENHEIT	RD ROOM	F DRAIN	I ☐ I GAS COCK	Gas Shutoff Cock
-CO -D	FLOOR CLEAN OUT FLOOR DRAIN	RED REDU		1" REG	Gas Regulator
FDC FL	FIRE DEPARTMENT CONNECTION FLOOR		TIVE HUMIDITY EF AIR	1" T/V	Thermostatic Valve
FO	FUEL OIL	RM ROOI RPM REVO	M DLUTIONS PER MINUTE	T/P	Missia a Maksa
FOV FOR	FUEL OIL VENT FUEL OIL RETURN	RW RAIN	WATER ARE FOOT	<u>TMV-XT/P</u> EMI	Mixing Valve
FOS FPM	FUEL OIL SUPPLY FEET PER MINUTE	S/A SUPF	PLY AIR	<u>TMVEM</u>	Emergency Mixer
FS FT	FLOOR SINK FOOT/FEET	SAN SANI SF SQUA	TARY ARE FOOT	2" PRV	Pressure Reducing Valve
FTR	FIN TUBE RADIATION		KE DAMPER FACE MOUNT	(₩) —2 1/2" METER	Water Meter
GAL GF	GALLON GAS-FIRED	SP STAN	IDPIPE		Double Check Valve
GC GPM	GENERAL CONTRACTOR GALLONS PER MINUTE	STM STEA			Reduced Pressure Zone
GW HB	GREASE WASTE HOSE BIB	TD TEMP	RMOSTAT PERATURE DROP	***	
HP	HORSE POWER	TDR TREM	ICH DRAIN PERATURE	<u>Plumbing Fixture Notes</u>	
HTG HTR	HEATING HEATER	TYP TYPI		Floor Drain	— Design Size
HW HYD	HOT WATER HYDRANT	VAC VACU	JUM	2" FD-A 2 DFU	Identity TypeDrainage Fixture Units
ID IN	INDIRECT INCH		ABLE AIR VOLUME		Floor Drain w/ Deep Seal T
INV	INVERT	VENT VENT	TILATION THROUGH ROOF	 	— Floor Drain w/ Trap Primer
LB LB/HR	POUND POUNDS PER HOUR	W WAS			"P" Indicates Primer Conne
LAT LP	LEAVING AIR TEMPERATURE LOW PRESSURE	WCO WALL	CLEAN OUT	•	Floor Drain w/ Integral Clea
LPG	LIQUEFIED PETROLEUM GAS	WH WALL	_ HYDRANT	<u> </u>	Area Drain (No Trap)
	Equipment Abb	reviations		₩	Deck Drain
	AIR CONDITIONING UNIT		XPANSION TANK	1	
ΔΟ	AIR COOLING CONDENSING UNIT	EWH E	LECTRIC WATER HEATER		Hub Drain (Funnel Type)
AC ACCU	AIR HANDLING UNIT	FP FI	AN COIL UNIT RE PUMP		Floor Sink
ACCU AHU AS	AIR SEPARATOR		REASE INTERCEPTOR RAVITY ROOF VENTILATOR	0	Roof Drain
ACCU AHU	AIR SEPARATOR BOILER CHILLER	-	EATING WATER PUMP EAT RECOVERY UNIT		
ACCU AHU AS B CH CT	BOILER CHILLER COOLING TOWER			6" SD-1 2000 SF	Combination Drain Rainfall Surface Area
ACCU AHU AS B CH CT CUH CHWP	BOILER CHILLER COOLING TOWER CABINET UNIT HEATER CHILLED WATER PUMP	HRU H PRV P	OWER ROOF VENTILATOR		
ACCU AHU AS B CH CT CUH CHWP DBP DC	BOILER CHILLER COOLING TOWER CABINET UNIT HEATER CHILLED WATER PUMP DOMESTIC WATER BOOSTER PUMP DUCT MOUNTED COIL	HRU H PRV P RE R RTU R	ETURN/EXHAUST FAN OOFTOP UNIT		
ACCU AHU AS B CH CT CUH CHWP DBP DC DCP	BOILER CHILLER COOLING TOWER CABINET UNIT HEATER CHILLED WATER PUMP DOMESTIC WATER BOOSTER PUMP DUCT MOUNTED COIL DOMESTIC WATER CIRCULATING PUMP	HRU H PRV P RE R RTU R SP S	ETURN/EXHAUST FAN OOFTOP UNIT UMP PUMP		
ACCU AHU AS B CH CT CUH CHWP DBP DC	BOILER CHILLER COOLING TOWER CABINET UNIT HEATER CHILLED WATER PUMP DOMESTIC WATER BOOSTER PUMP DUCT MOUNTED COIL	HRU H PRV PI RE R RTU R SP SI UH U	ETURN/EXHAUST FAN OOFTOP UNIT		
ACCU AHU AS B CH CT CUH CHWP DBP DC DCP EF	BOILER CHILLER COOLING TOWER CABINET UNIT HEATER CHILLED WATER PUMP DOMESTIC WATER BOOSTER PUMP DUCT MOUNTED COIL DOMESTIC WATER CIRCULATING PUMP EXHAUST FAN	HRU H PRV PI RE R RTU R SP SI UH U	ETURN/EXHAUST FAN OOFTOP UNIT UMP PUMP NIT HEATER		
ACCU AHU AS B CH CT CUH CHWP DBP DC DCP EF	BOILER CHILLER COOLING TOWER CABINET UNIT HEATER CHILLED WATER PUMP DOMESTIC WATER BOOSTER PUMP DUCT MOUNTED COIL DOMESTIC WATER CIRCULATING PUMP EXHAUST FAN	HRU H PRV PI RE R RTU R SP SI UH U	ETURN/EXHAUST FAN OOFTOP UNIT UMP PUMP NIT HEATER		
ACCU AHU AS B CH CT CUH CHWP DBP DC DCP EF	BOILER CHILLER COOLING TOWER CABINET UNIT HEATER CHILLED WATER PUMP DOMESTIC WATER BOOSTER PUMP DUCT MOUNTED COIL DOMESTIC WATER CIRCULATING PUMP EXHAUST FAN	HRU H PRV PI RE R RTU R SP SI UH U	ETURN/EXHAUST FAN OOFTOP UNIT UMP PUMP NIT HEATER		
ACCU AHU AS B CH CT CUH CHWP DBP DC DCP EF EDC	BOILER CHILLER COOLING TOWER CABINET UNIT HEATER CHILLED WATER PUMP DOMESTIC WATER BOOSTER PUMP DUCT MOUNTED COIL DOMESTIC WATER CIRCULATING PUMP EXHAUST FAN	HRU H PRV PI RE R RTU R SP SI UH U WH W	ETURN/EXHAUST FAN OOFTOP UNIT UMP PUMP NIT HEATER 'ATER HEATER		



	Plumbing Sheet Index
P0.1	PLUMBING TITLE SHEET
P1.1	WASTE AND VENT BUILDING A
P1.2	WASTE AND VENT BUILDING A
P1.3	WASTE AND VENT BUILDING B
P1.4	WASTE AND VENT BUILDING B
P1.5	DOMESTIC WATER
P4.1	ENLARGED FLOOR PLANS
P4.2	ENLARGED FLOOR PLANS
P6.1	PLUMBING SCHEDULES
P9.1	PLUMBING 3D RISERS
P9.2	PLUMBING 3D RISERS
P9.3	PLUMBING 3D RISERS

GENERAL PLUMBING NOTES

. FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS. PITCH UNDERFLOOR SANITARY WASTE PIPING OVER 2" AT 1/8"

PER FOOT, 2" AND SMALLER AT 1/4" PER FOOT. FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.

ROUTE DOMESTIC WATER, AND SANITARY SEWER SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.

WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM. LOCATIONS OF PIPING AND EQUIPMENT AS INDICATED ON THE DRAWINGS ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED

WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL (OR UNIFORM, DEPENDING ON JURISDICTION) PLUMBING CODE AND INTERNATIONAL MECHANICAL CODE.

LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.

LOCATE PIPING AND EQUIPMENT OUTSIDE OF THE NEC REQUIRED CLEAR SPACE ABOVE AND AROUND ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT. COORDINATE WITH ELECTRICAL CONTRACTOR. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE U.L. LISTED. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED

ASSEMBLIES. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE

SELECTED TO SUIT MATERIALS IN WHICH INSTALLED. M. TRANSITION FROM PIPING SIZES SHOWN TO PROPERLY CONNECT TO EQUIPMENT. . PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION

OF FLOW UNTIL ANOTHER SIZE IS SHOWN. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.

INSTALL EXPOSED PIPING AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS. PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL PLUMBING EQUIPMENT AND MATERIALS. SUBSTITUTE EQUIPMENT AND MATERIALS INSTALLED WITHOUT PRIOR APPROVAL SHALL BE SUBJECT TO REPLACEMENT AT

CONTRACTOR'S EXPENSE. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND

MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

GENERAL PLUMBING DEMOLITION NOTES

A. ALL PIPING TAKEN OUT OF SERVICE SHALL BE REMOVED. WHERE PIPING TO BE REMOVED IS CONNECTED TO EXISTING PIPING TO REMAIN, PIPING SHALL BE REMOVED BACK TO MAIN AND CAPPED, UNLESS INDICATED OTHERWISE. CONTRACTOR SHALL DISPOSE OF PIPING OR DELIVER TO OWNER, AS DIRECTED BY OWNER.

WHERE PIPING TAKEN OUT OF SERVICE IS LOCATED BELOW SLAB AND IS UNABLE TO BE REMOVED, CAP BELOW SLAB. COORDINATE CUTTING, PATCHING OF EXISTING WALLS, CEILINGS, ROOF AND FLOORS AFFECTED BY MECHANICAL DEMOLITION WITH G.C.

ALL EQUIPMENT TAKEN OUT OF SERVICE SHALL BE REMOVED. EQUIPMENT SHALL BE DELIVERED TO OWNER OR DISPOSED OF AS DIRECTED BY OWNER. REMOVE ALL PLUMBING INSTALLATION FROM PROJECT AREA, UNLESS REQUIRED FOR NEW WORK OR EXISTING INSTALLATION NOT AFFECTED BY REMODEL. COORDINATE

WITH OWNER AND G.C. SERVICES TO ITEMS NOT REMOVED AS PART OF THIS WORK SHALL BE RESTORED UPON COMPLETION OF THIS WORK TO

FULLY OPERATIONAL CONDITION. NOT ALL ITEMS REQUIRED TO BE DEMOLISHED MAY BE INDICATED ON DRAWINGS. ALL DEMOLITION OF AFFECTED SPACE SHALL BE PERFORMED AS IF INDICATED. FIELD VERIFY EXACT LOCATION OF ALL EXISTING PLUMBING

INSTALLATION INDICATED ON DRAWINGS. ALL ITEMS TO BE RE-USED OR RELOCATED SHALL BE CLEANED, REPAIRED, AND RESTORED TO LIKE NEW CONDITION PRIOR TO RE-USE.

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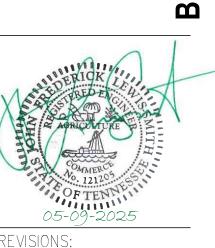
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TENNESEE

COMPLE 5 APARTMEN NEW

BROWNSVILLE



24-3446 SHEET NO .:

(x") | WASTE STACK VENT (X = SIZE)

- 1 4" PVC PIPE FOR RADON SYSTEM. COORDINATE EXACT REQUIREMENTS WITH
- PROVIDE INDIRECT CONNECTION AT GARBAGE DISPOSER AND CONNECT DISHWASHER. ROUTE DRAIN FROM DISHWASHER AT BACK OF CABINETRY.

NOTES BY SYMBOL

COORDINATE EXACT ROUTING WITH G.C.

3 SEE ME1.0 FOR CONTINUATION.

W&V PLAN GENERAL NOTES

SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR

PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS

IN FURRED OUT WALLS AS INDICATED ON PLANS. VERIFY

ALL PENETRATIONS OF APARTMENT AIR BARRIERS SHALL BE

DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

GillamRe

TENNESEE

NEW APARTMEI

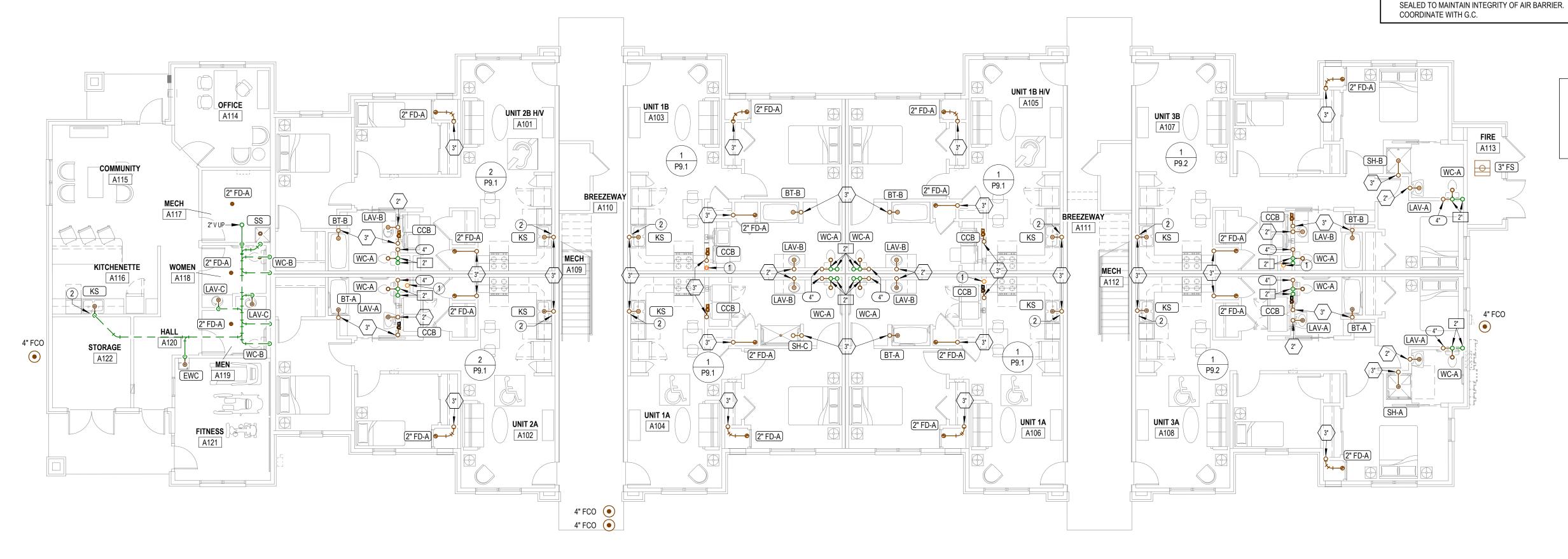
AT

RESERVES

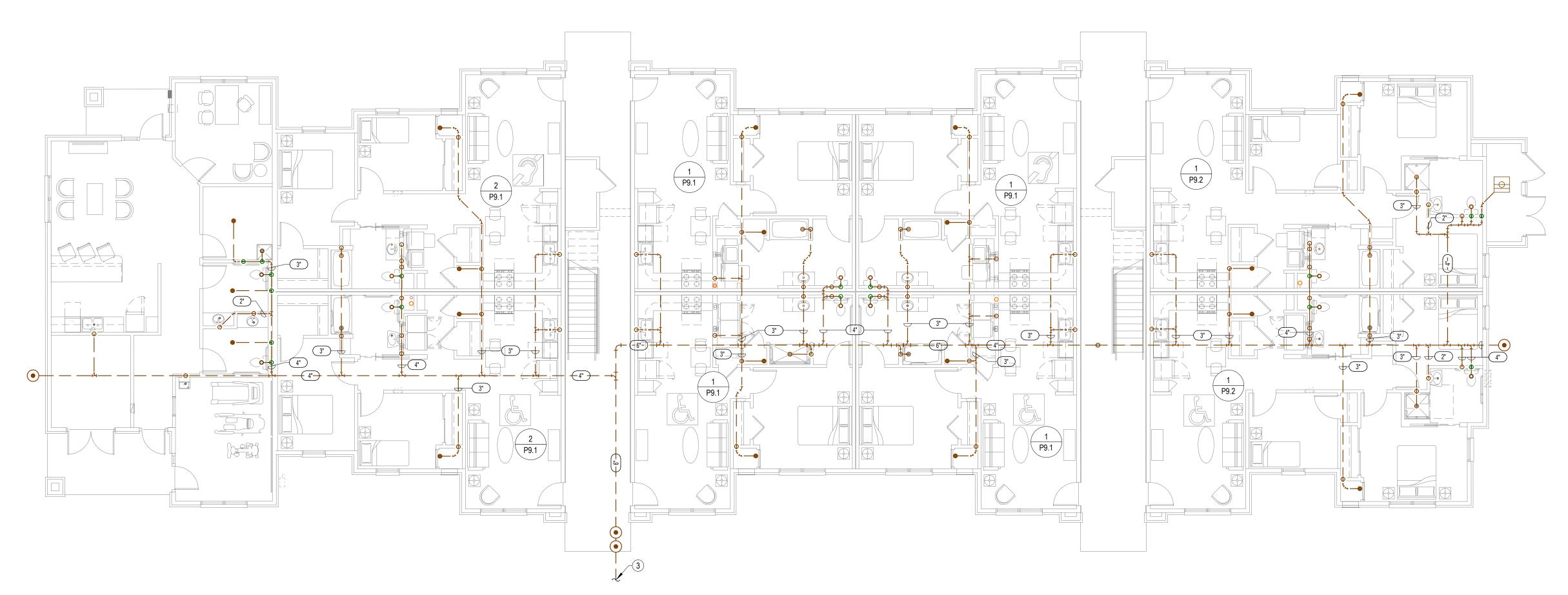
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BROWNSVILLE

P1.1



BUILDING A-FIRST FLOOR-WASTE AND VENT PLAN 1/8" = 1'-0"



x" VENT (X = SIZE) (x") | WASTE STACK VENT (X = SIZE)

NOTES BY SYMBOL

W&V PLAN GENERAL NOTES

1. SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR

INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFO. SEE WASTE AND VENT ISOMETRICS ON SHEET P9.1 - P9.3 FOR ADDITIONAL INFO. PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALLS AS INDICATED ON PLANS. VERIFY DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

ALL PENETRATIONS OF APARTMENT AIR BARRIERS SHALL BE

SEALED TO MAINTAIN INTEGRITY OF AIR BARRIER.

COORDINATE WITH G.C.

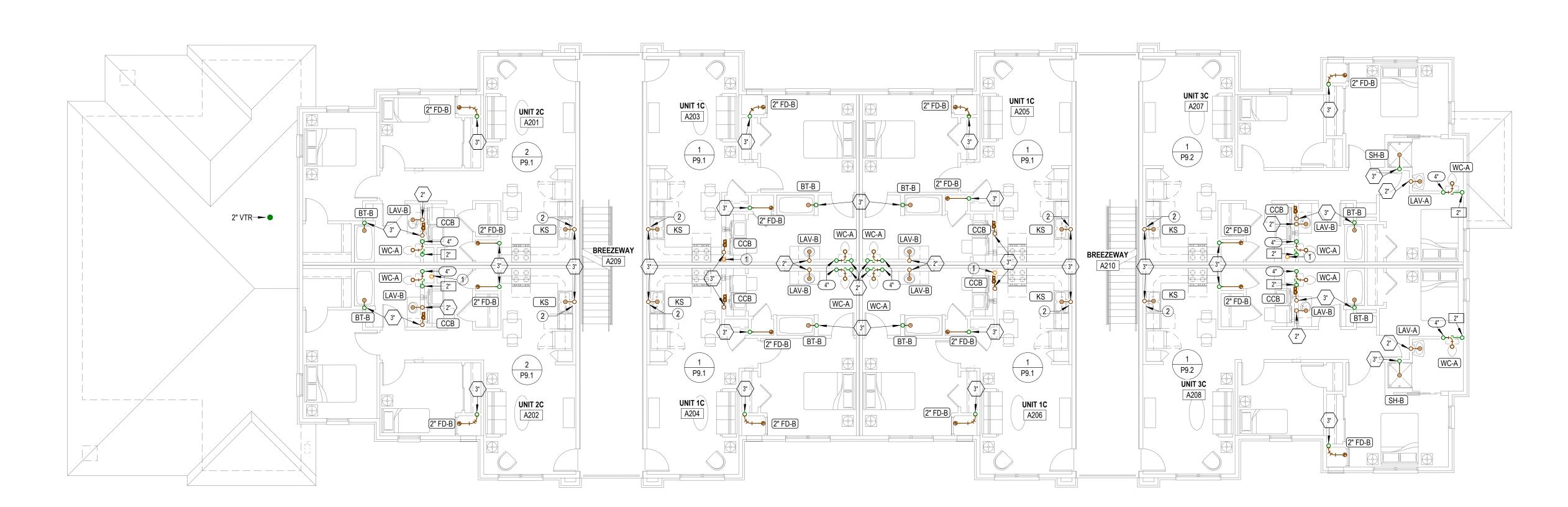
1 P9.2

- 1 4" PVC PIPE FOR RADON SYSTEM. COORDINATE EXACT REQUIREMENTS WITH

JonesGillamRenz

PROVIDE INDIRECT CONNECTION AT GARBAGE DISPOSER AND CONNECT DISHWASHER. ROUTE DRAIN FROM DISHWASHER AT BACK OF CABINETRY. COORDINATE EXACT ROUTING WITH G.C.

BUILDING A-THIRD FLOOR-WASTE AND VENT PLAN 1/8" = 1'-0"



BUILDING A-SECOND FLOOR-WASTE AND VENT PLAN
1/8" = 1'-0"

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P1.2

TENNESEE

CIRCLE AT

BROWNSVILLE

W&V PLAN GENERAL NOTES

1. SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR

INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFO. SEE WASTE AND VENT ISOMETRICS ON SHEET P9.1 - P9.3 FOR ADDITIONAL INFO.

PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALLS AS INDICATED ON PLANS. VERIFY DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

ALL PENETRATIONS OF APARTMENT AIR BARRIERS SHALL BE

SEALED TO MAINTAIN INTEGRITY OF AIR BARRIER.

COORDINATE WITH G.C.

NOTES BY SYMBOL

PROVIDE INDIRECT CONNECTION AT GARBAGE DISPOSER AND CONNECT DISHWASHER. ROUTE DRAIN FROM DISHWASHER AT BACK OF CABINETRY. COORDINATE EXACT ROUTING WITH G.C.

3 SEE ME1.0 FOR CONTINUATION.

TENNESEE

COMPLEX

CIRCLE

AT

RESERVES

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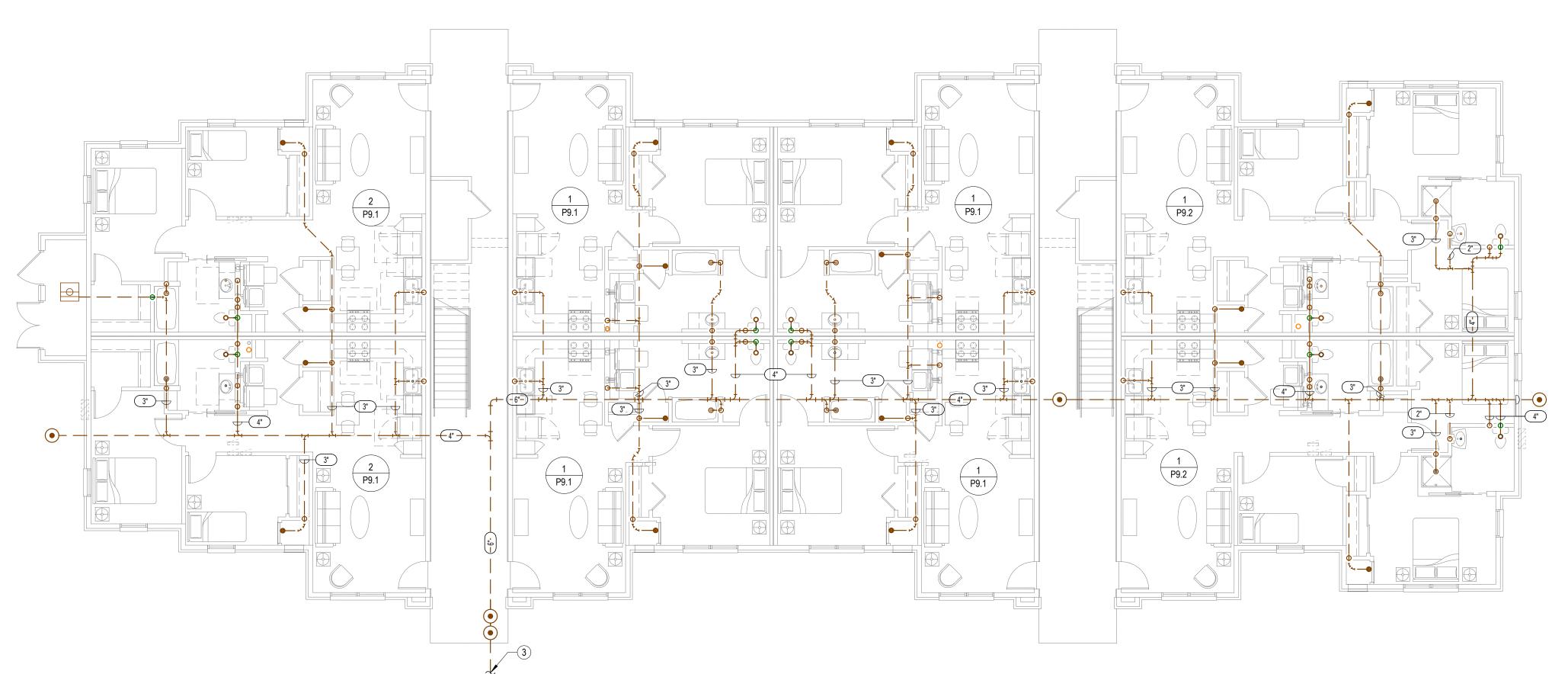
NEW APARTMEI

BROWNSVILLE

4" FCO P9.1 UNIT 1B

BUILDING B-FIRST FLOOR-WASTE AND VENT PLAN

1/8" = 1'-0"



CIRCLE

COBALT

AT

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P1.4

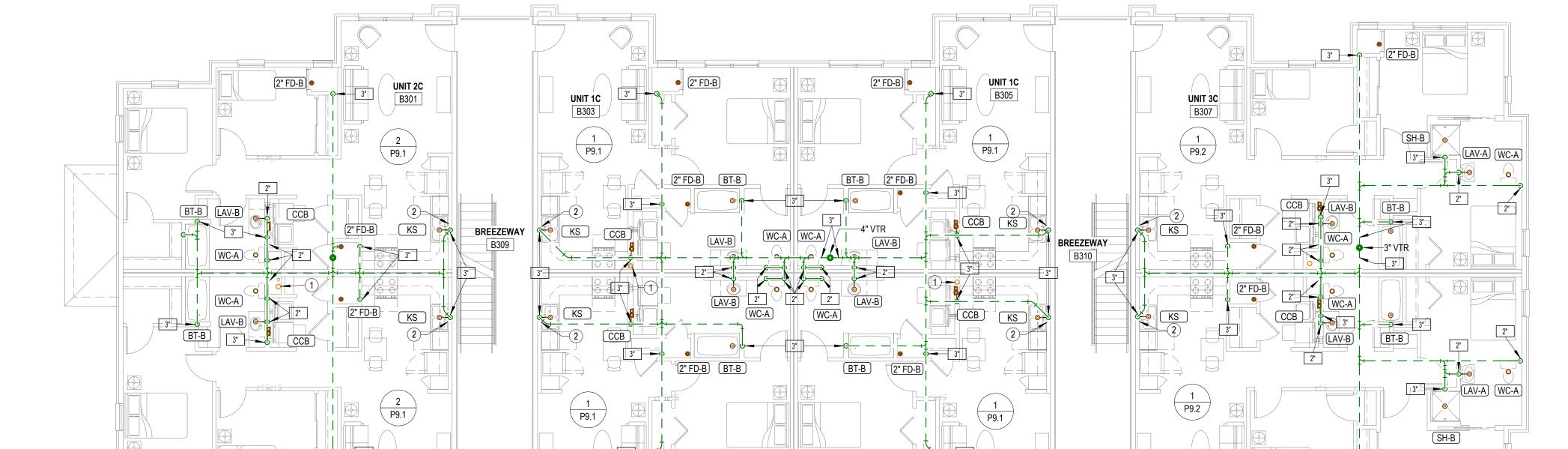
W&V PLAN GENERAL NOTES
 MANHATTAN
 WICHITA

 4809 Vue Du Lac Place, Suite 201
 125 S. Washington, Suite 150

 Manhattan, KS 66503
 Wichita, KS 67202

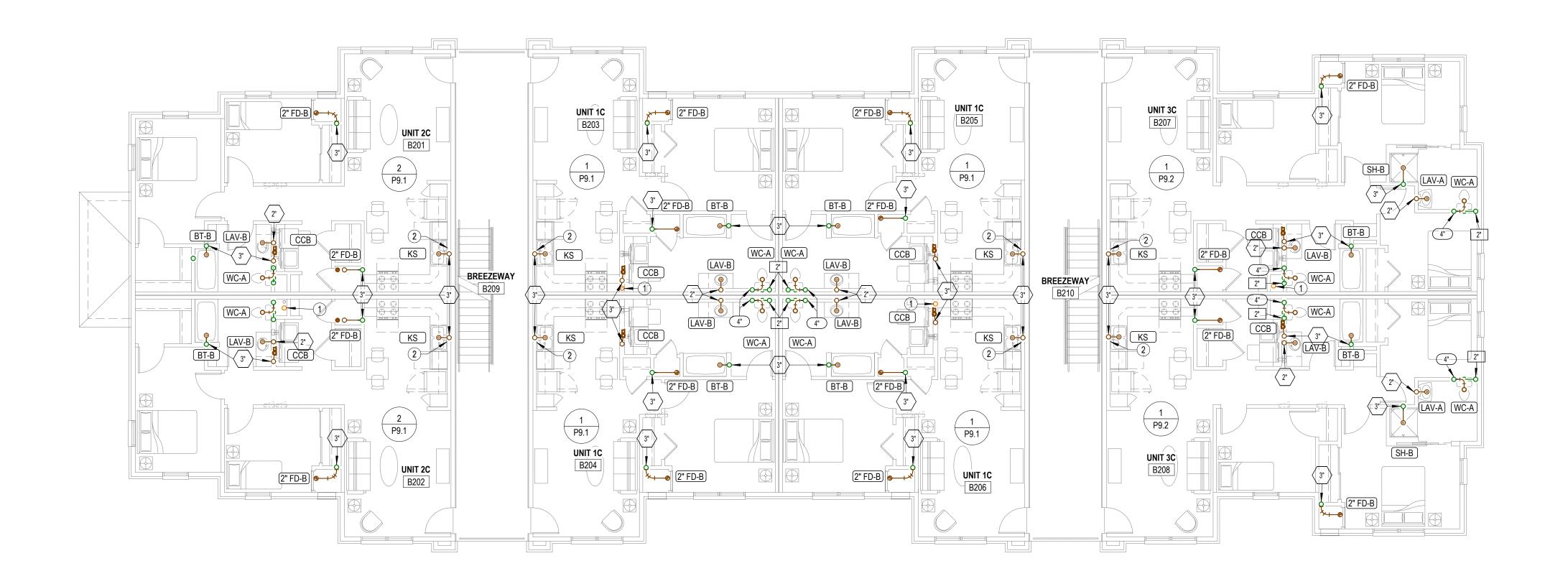
 785.587.8042
 316.285.0696
 SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFO. SEE WASTE AND VENT ISOMETRICS ON SHEET P9.1 - P9.3 FOR ADDITIONAL INFO. www.LSTengineers.com mail@LSTengineers.com PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALLS AS INDICATED ON PLANS. VERIFY DIMENSIONS WITH ARCHITECTURAL DRAWINGS. ALL PENETRATIONS OF APARTMENT AIR BARRIERS SHALL BE PLUMBING SIZING SYMBOLS SEALED TO MAINTAIN INTEGRITY OF AIR BARRIER. COORDINATE WITH G.C. |x''| DRAIN (X = SIZE) x" VENT (X = SIZE) (x") | WASTE STACK VENT (X = SIZE) **NOTES BY SYMBOL** 1 4" PVC PIPE FOR RADON SYSTEM. COORDINATE EXACT REQUIREMENTS WITH

PROVIDE INDIRECT CONNECTION AT GARBAGE DISPOSER AND CONNECT DISHWASHER. ROUTE DRAIN FROM DISHWASHER AT BACK OF CABINETRY. COORDINATE EXACT ROUTING WITH G.C.



B308

BUILDING B-THIRD FLOOR-WASTE AND VENT PLAN 1/8" = 1'-0"



Note: Pipe sizes indicated on drawings are for Type L copper pipe. If alternate materials are used, sizes shall be as indicated above. Where no pipe size is shown, use of indicated material in design pipe size is prohibited. Do not use materials other than those listed.

Cross-linked polyethylene

1/2"

3/4"

1-1/2"

2-1/2"

3-1/2"

3-1/2"

3/4"

1-1/4"

2-1/2"

PIPING FOR DWELLING UNITS ON 3RD FLOOR SHALL BE ROUTED BELOW THE FLOOR. DO NOT ROUTE DOMESTIC WATER PIPING IN THE ATTIC.

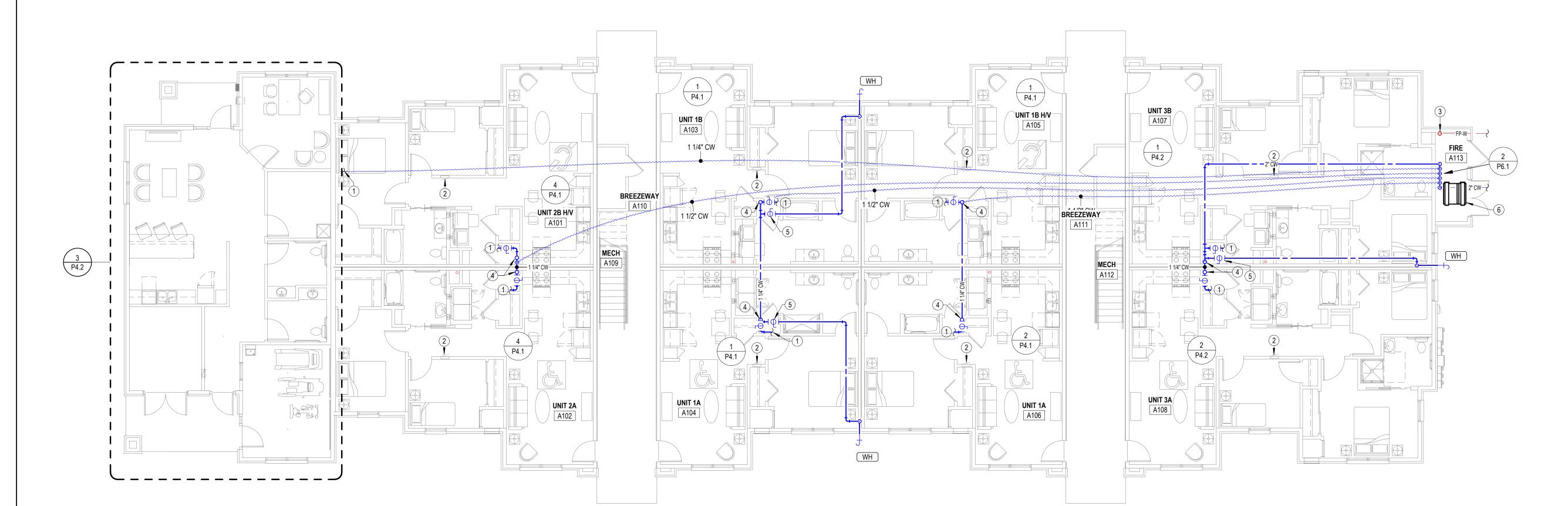
NOTES BY SYMBOL

- 1 SEE ENLARGED DOMESTIC WATER PLANS FOR CONTINUATION.
- ELECTRICAL EQUIPMENT SHOWN FOR COORDINATION. DO NOT ROUTE PIPING ABOVE OR BELOW EQUIPMENT, AND MAINTAIN WORKING CLEARANCE SHOWN. FIRE PROTECTION SERVICE ENTRANCE. INSTALL IN ACCORDANCE WITH NFPA 13.
- COORDINATE LOCATION OF ALL VALVES AND APPURTENANCES WITH AHJ. SEE 1:P6.1 FOR MORE INFORMATION.
- SEE DOMESTIC PLUMBING RISERS ON P9 SHEETS FOR CONTINUATION.
- CONNECT WALL HYDRANT WITH 3/4" CW BRANCH TO DOMESTIC WATER PIPNG AHEAD OF TENANT SHUT-OFF VALVE. PROVIDE SHUT-OFF VALVE ACCESSIBLE IN MECHANICAL CLOSET. REFERENCE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT AND COORDINATE WITH G.C.
- 6 PROVIDE ALTERNATE BID TO PROVIDE AND INSTALL DOMESTIC WATER BOOSTER SYSTEM EQUAL TO QUANTUM FLO PRODIGY DUPLEX CAPABLE OF DELIVERING 70 GPM AT 41 PSI WITH AN INLET PRESSURE OF 16 PSI.

B103 2" CW (1) P4.1) P4.1

UNIT 1B

BUILDING B-FIRST FLOOR-DOMESTIC WATER PLAN 1/8" = 1'-0"



P1.5

BUILDING A-FIRST FLOOR-DOMESTIC WATER PLAN
1/8" = 1'-0"

RESERVES 뿓

CIRCLE

COBALT

AT

NEW APARTMEI BROWNSVILLE

NT COMPLEX

TENNESEE

ALTERNATE

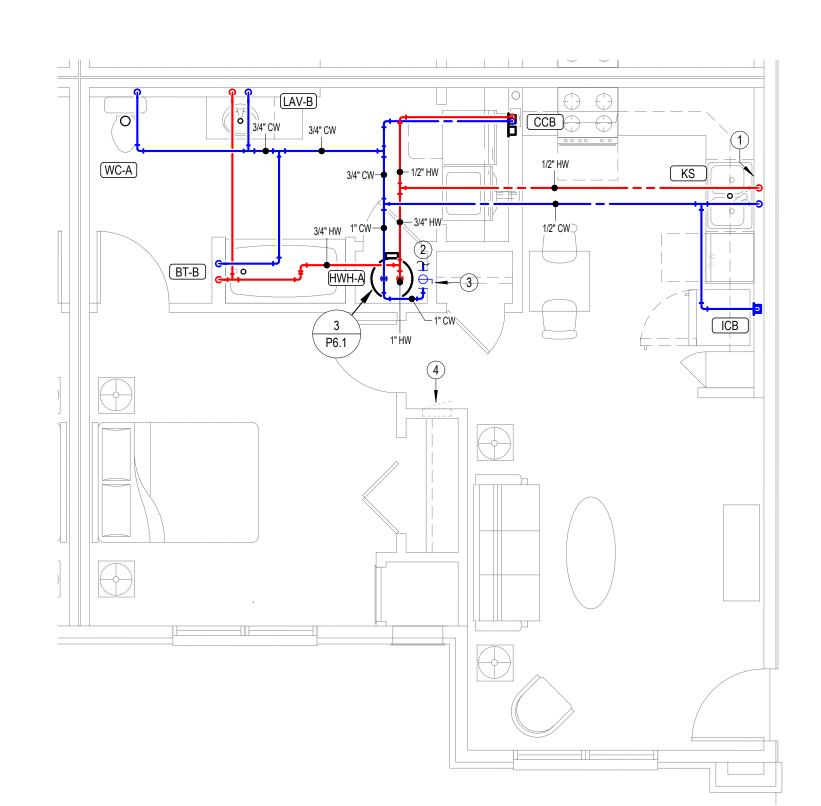
copper pipe. If alternate materials are used, sizes shall be as indicated above. Where no pipe size is shown, use of

- PROVIDE 1/2" VALVED BRANCH BELOW SINK AND CONNECT DISHWASHWER. ROUTE PIPING ALONG BACK OF CABINETRY, COORDINATE EXACT ROUTING WITH
- G.C. COORDINATE EXACT REQUIREMENTS WITH DISHWASHER PROVIDED. 2 SEE OVERALL DOMESTIC WATER PLANS FOR CONTINUATION. 3 PROVIDE 1" WATER SERVICE TO APARTMENT WITH SHUT-OFF VALVE, SEE
- DOMESTIC RISER DIAGRAMS FOR ADDITIONAL INFORMATION. 4 ELECTRICAL EQUIPMENT SHOWN FOR COORDINATION. DO NOT ROUTE PIPING
- ABOVE OR BELOW EQUIPMENT, AND MAINTAIN WORKING CLEARANCE SHOWN. 5 IN UNIT A104 WITH ROLL-IN SHOWER COORDINATE SHOWERHEADS AND CONTROL

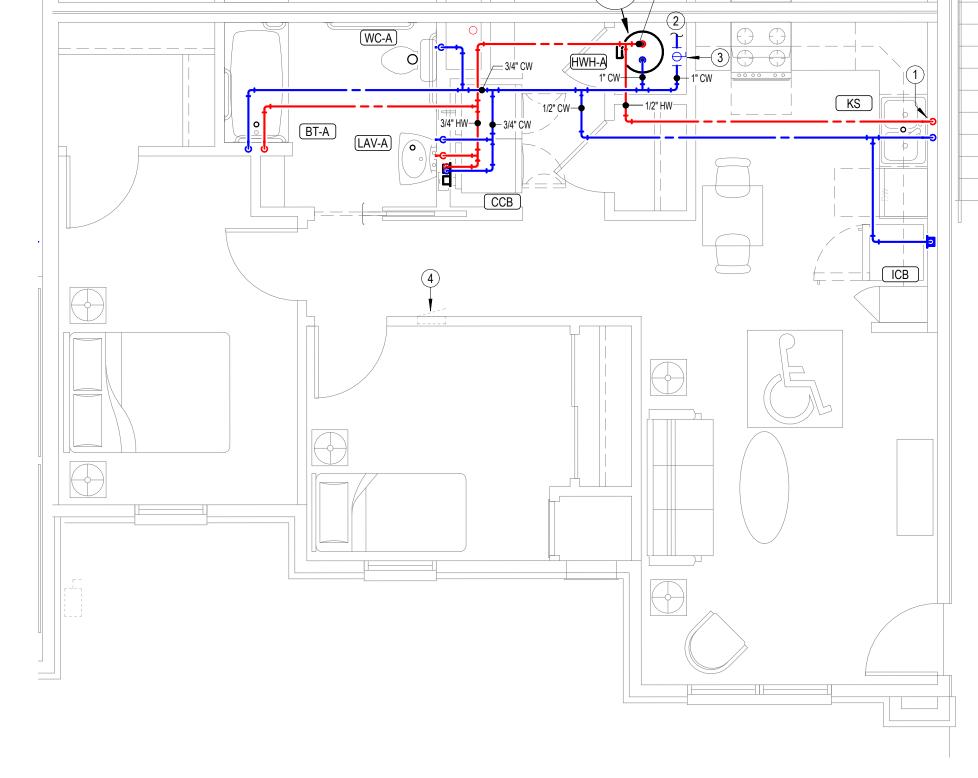
LOCATIONS WITH ARCHITECT.

NOT ROUTE DOMESTIC WATER PIPING IN THE ATTIC.

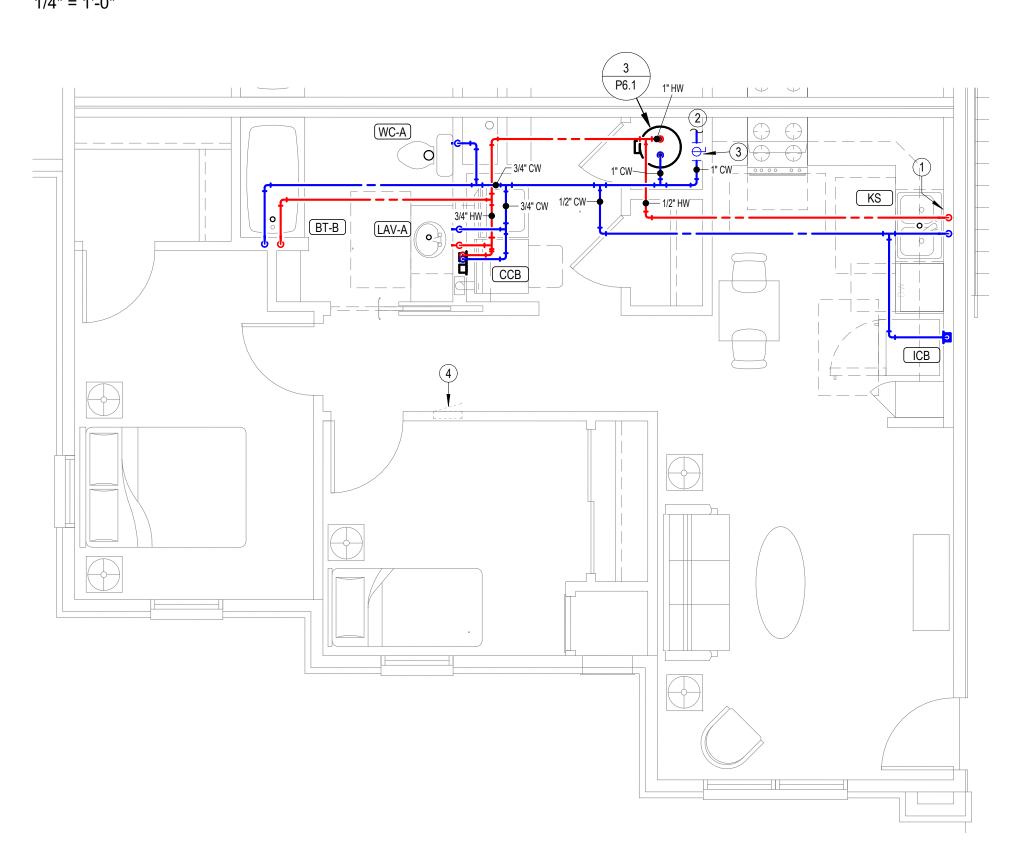
1 BEDROOM ACCESSIBLE ENLARGED DOMESTIC WATER PLAN 1/4" = 1'-0"



1 BEDROOM ENLARGED DOMESTIC WATER PLAN 1/4" = 1'-0"



2 BEDROOM ACCESSIBLE ENLARGED DOMESTIC WATER PLAN 1/4" = 1'-0"



2 BEDROOM ENLARGED DOMESTIC WATER PLAN
1/4" = 1'-0"

NT COMPLEX

NEW APARTMEI

JonesGillamRenz

TENNESEE

P4.1

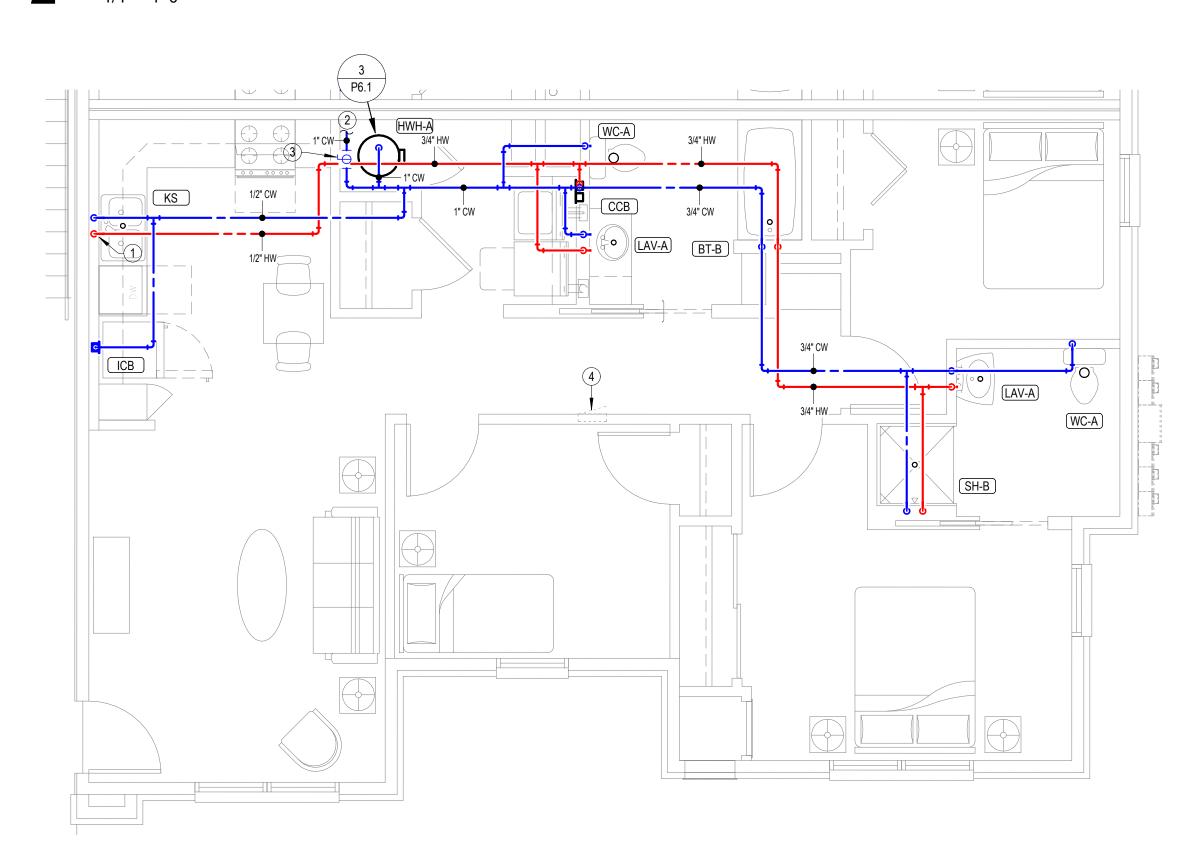
copper pipe. If alternate materials are used, sizes shall be

PIPING FOR DWELLING UNITS ON 3RD FLOOR SHALL BE ROUTED BELOW THE FLOOR. DO

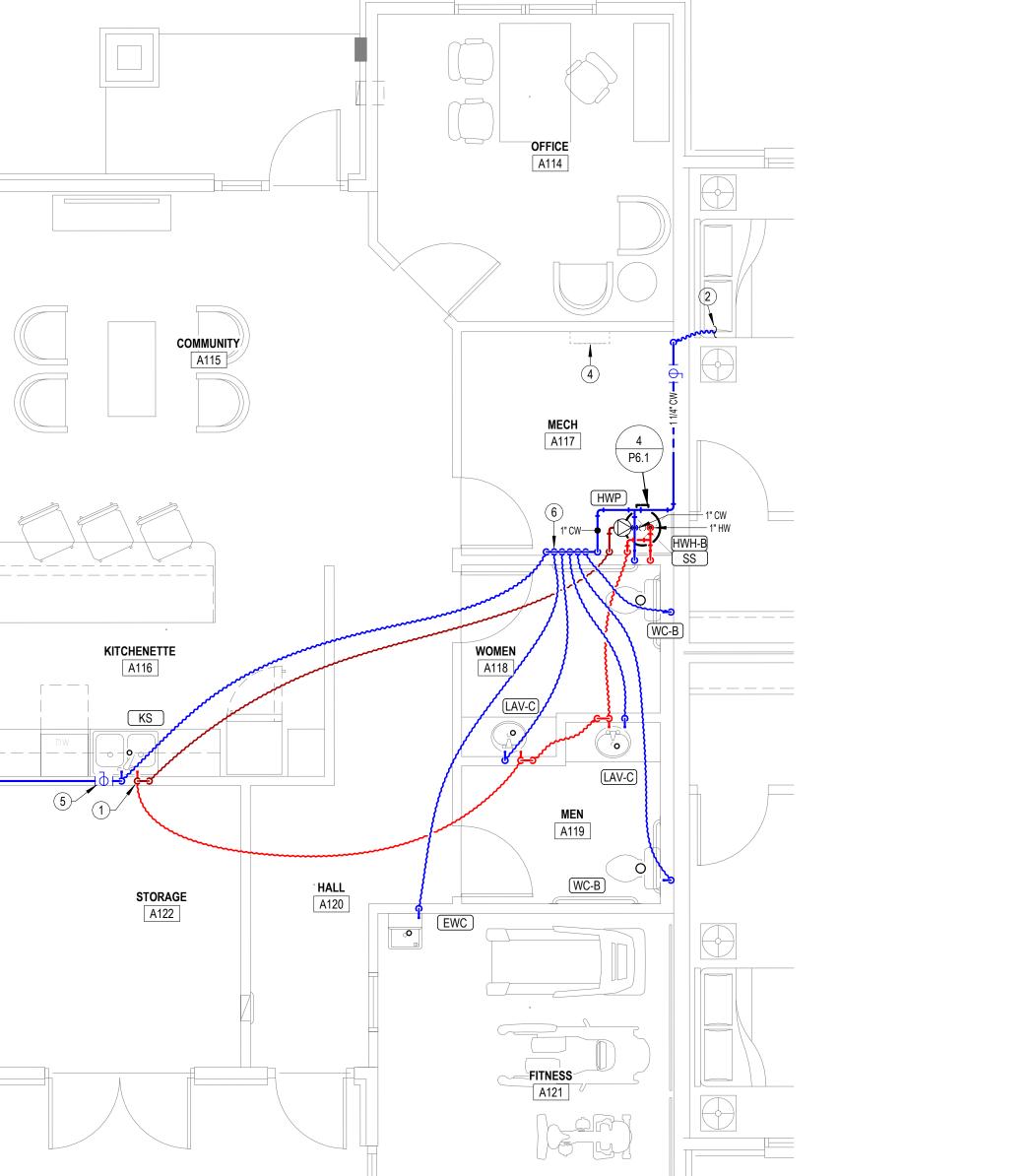
NOT ROUTE DOMESTIC WATER PIPING IN THE ATTIC.

- PROVIDE 1/2" VALVED BRANCH BELOW SINK AND CONNECT DISHWASHWER. ROUTE PIPING ALONG BACK OF CABINETRY, COORDINATE EXACT ROUTING WITH G.C. COORDINATE EXACT REQUIREMENTS WITH DISHWASHER PROVIDED.
- 2 SEE OVERALL DOMESTIC WATER PLANS FOR CONTINUATION.
- PROVIDE 1" WATER SERVICE TO APARTMENT WITH SHUT-OFF VALVE, SEE DOMESTIC RISER DIAGRAMS FOR ADDITIONAL INFORMATION. 4 ELECTRICAL EQUIPMENT SHOWN FOR COORDINATION. DO NOT ROUTE PIPING
- ABOVE OR BELOW EQUIPMENT, AND MAINTAIN WORKING CLEARANCE SHOWN. PROVIDE SHUT-OFF VALVE FOR WALL HYDRANT IN ACCESSIBLE LOCATION BELOW
- 6 PROVIDE ALTERNATE BID TO PROVIDE AND INSTALL DOMESTIC WATER BOOSTER SYSTEM EQUAL TO QUANTUM FLO PRODIGY DUPLEX CAPABLE OF DELIVERING 70 GPM AT 41 PSI WITH AN INLET PRESSURE OF 16 PSI.

3 BEDROOM ACCESSIBLE ENLARGED DOMESTIC WATER PLAN 1/4" = 1'-0"







NEW APARTMEI RESERVES 뿓

CIRCLE

COBALT

AT

NT COMPLEX

TENNESEE

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BROWNSVILLE

P4.2

3 BEDROOM ENLARGED DOMESTIC WATER PLAN
1/4" = 1'-0"

COLD HOT

TENNESEE

CIR(

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RESERVES

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SHEET NO.

EQUIPME	ENT SCHEDULE		PLUI	MBING FIX	TURE SCH	EDULE
Model	Product Specification	Schedule Notes	MARK	MANUFACTURER	MODEL	
EETU-40	40 Gallon electric water heater, 0.93 UEF, 4500 watts, 208V heating element, 21 GPH recovery @ 90°F temp rise. Supplied		WARK	WANUFACTURER	MODEL	
	with temperature and pressure relief valve and brass drain valve. Water heater shall have temperature controls set to limit supply temperature to 120°F or less.		BT-A	AQUARIUS	S 6000 TS OT	Reinforced fi
	20 Gallon electric water heater, 2500 watts, 120v heating element, 11 GPH recovery @ 90°F temp rise. Supplied with temperature and pressure relief valve and brass drain valve. Water heater shall have temperature controls set to limit supply	1				end of tub, a
	temperature to 120°F or less.		BT-B	AQUARIUS	G 6063 TS	Reinforced fib
NBF-33	Circulation pump, bronze body, 10 gpm @ 10' head, 120 VAC. Provide clamp-on aquastat for pump control.	2				with integral so

PROVIDE FIXTURES WITH ALL TRIM NECESSARY FOR COMPLETE INSTALLATION.

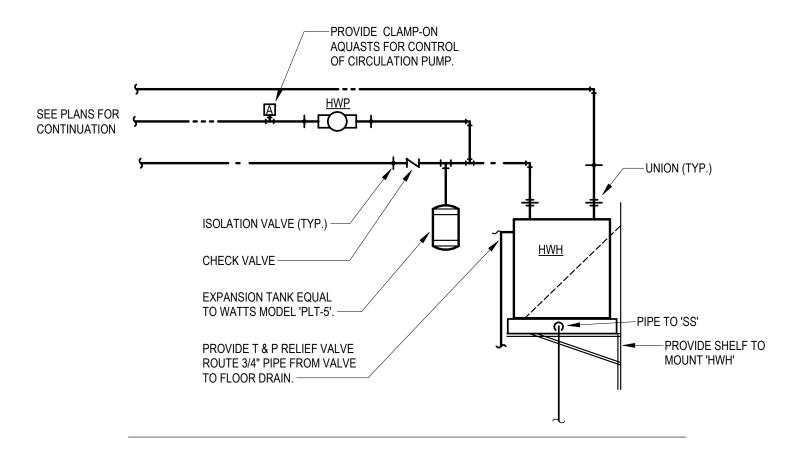
DOMESTIC WATER EQUIPMENT SCHEDULE

Manufacturer

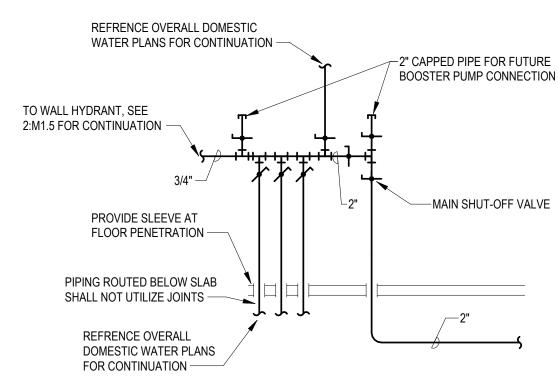
AO Smith

AO Smith

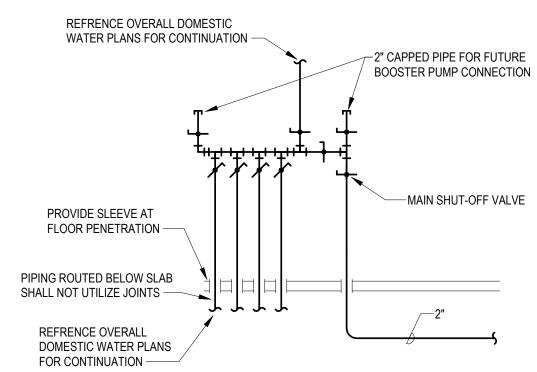
PROVIDE WALL HUNG PLATFORM FOR WATER HEATER EQUAL TO HOLDRITE #60SWHP-W. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT. PUMP SHALL HAVE CONTROLS TO PREVENT STARTUP WITHIN 5 MINUTES FROM THE END OF PREVIOUS HEATING CYCLE. HOT WATER RECIRCULATION SYSTEM SHALL MEET ALL REQUIREMENTS OF 2021 IECC.



WATER HEATER ON SHELF PIPING DIAGRAM



BUILDING B - DOMESTIC WATER RISER DIAGRAM



BUILDING A - DOMESTIC WATER RISER DIAGRAM
NO SCALE

WIAIN	WANDIACIONEN	WIODEL	PRODUCT DESCRIPTION	I KIWI	DRAIN	VENT	WATER	COLD	1101	COMPLIANT	NOILS
BT-A	AQUARIUS	S 6000 TS OT	Reinforced fiberglass tub/shower, 60"W x 33"D x 82"H, with integral soap/toiletry shelves, and grab bars, fold up seat at end of tub, and right or left hand rough-in as required, white finish.	Delta Model R10000-UNWS/T13H252 single handle pressure-balancing valve with metal tub filler with pull diverter, 1.5 GPM handshower with double check valves, flexible hose, 24" stainless steel slide bar and pop-up drain with overflow.		1 1/2"	1/2"	Yes	Yes	Yes	1
BT-B	AQUARIUS	G 6063 TS	Reinforced fiberglass tub/shower, 60"W x 35-3/4"D x 76-1/2"H, with integral soap/toiletry shelves, right or left hand rough-in as required, white finish.	Delta Model R10000-UNWS/T13H232 single handle pressure-balancing valve with metal tub filler with pull diverter, 1.5 GPM push-clean showerhead and pop-up drain with overflow.	2"	1 1/2"	1/2"	Yes	Yes	No	
CCB	SIOUX CHIEF	696-2313	Washing machine box with 2" PVC/ABS drain coupling and knockout test cap. Two, 1/4 turn adaptor ball valves, and sweat connection.		2"	1 1/2"	1/2"	Yes	Yes		
EWC	ELKAY	EMABFTLDDWSLK	Dual height, self-containged water cooler with stainless steel basin, front and side push bar actuator, lead-free, 120v. Provide with EZH20 bottle filling station, and model 98313C accessory apron.		2"	1 1/2"	1/2"	Yes	No	Yes	1
FD-A	SIOUX CHIEF	833	Adjustable floor drain with nickel bronze strainer. Provide Proset Trapgaurd protection device.		2"	2"					
FD-B	SIOUX CHIEF	822	Adjustable floor drain with deck flange and nickel bronze strainer. Provide Proset Trapgaurd protection device.		2"	2"					
FS	SIOUX CHIEF	861	12" Square, 8" deep, PVC floor sink wiht PVC strainer. Provide Proset Trapgaurd protection device.		3"	2"					
ICB	SIOUX CHIEF	696-G1010	Ice maker connection box with 1/4 turn ball balbe, and 1/2" sweat copper connection.		0"	0"	1/2"	Yes	No		
KS	JUST	DLADA2233A-J	Two compartment 20 GA stainless steel sink, self rimming, 14"x16"x8"D inside, fully undercoated, faucet holes as required. Single handle kitchen sink faucet with hose spray, and basket strainer. IN-SINKERator: "Badger 5" garbage disposal, 1/2hp 120V cord and plug connected.	Kohler / K10412	2"	1 1/2"	1/2"	Yes	Yes	Yes	2,4
LAV-A	AMERICAN STANDARD	0355.012	20"W x 17" Wall hung, vitreous china lavatory. Single handled 0.5 GPM faucet. Provide with pop-drain, and front overflow drain.	Delta / 22C151	2"	1 1/2"	1/2"	Yes	Yes	Yes	1,2,3
LAV-B	AMERICAN STANDARD	0476.028	20"x17" Self-Rimmng lavatory. Faucet holes on 4" centers. Single handled 0.5 GPM faucet. Provide with pop-drain, and front overflow drain.	Delta / 22C151	2"	1 1/2"	1/2"	Yes	Yes	Yes	1,2,3
LAV-C	AMERICAN STANDARD	0476.028	20"x17" Self-Rimmng lavatory. Faucet holes on 4" centers. Single handled 0.5 GPM faucet. Provide with grid drain, front overflow drain.	Delta / 22C151	2"	1 1/2"	1/2"	Yes	Yes	Yes	1,2,3
SH-A	AQUA BATH CO.	C4136BF-OF-FUS 3/4"	Center drain option, reinforced fiberglass ADA base model shower, 36"Wx36"Dx80"H with integral soap/toiletry shelves in accordance with ADA requirements, fold-up seat, right or left hand rough-in as required, white finish, provide with collapsible dam.	Delta Model R10000-UNWS/T13H152 single handle pressure-balancing valve, 1.5 GPM handshower with double check valves, flexible hose, 24" stainless steel slide bar.	2"	1 1/2"	1/2"	Yes	Yes	Yes	1
SH-B	AQUATIC	13636FHARRF	Cast acrylic shower, 36" square inside, rear molded soap shelf, provide with FHA backing.	Delta Model R10000-UNWS/T13H132 single handle pressure-balancing valve, 1.5 GPM push-clean showerhead.	2"	1 1/2"	1/2"	Yes	Yes	No	
SH-C	AQUARIUS	G-6233-BF75	Reinforced fiberglass ADA roll-in shower, 60"W x 33"D x 73-3/4"H, with integral soap/toiletry shelves and grab bars in accordance with ADA requirements, fold-up seat, collapsible water dam, white finish.	Delta Model R10700-UNWS/T13H333 single handle pressure-balancing valve, 1.5 GPM handshower with double check valves, flexible hose, 24" stainless steel slide bar and 1.5 GPM push clean showerhead, arm and diverter valve.	2"	1 1/2"	1/2"	Yes	Yes	Yes	1
SS	FIAT	MSB-2424	One piece molded stone mop basin, 24" square, stainless steel integral drain body with caulk connection, stainless steel wall gaurds. Faucet with hose thread outlet, vacuum breaker, pail hook wall brace, and metal lever handels.	Chicago Faucets / 897-CP	3"	1 1/2"	3/4"	Yes	Yes	No	
WC-A	KOHLER	5296	Two piece, 12" rough-in, elongated 16-1/2" high bowl, siphon jet flushing action, actuator located on open side of room. Elongated closed front seat and cover. Provide with 1/4" brass ball valve at wall connection.	Kohler / K-5588	4"	2"	1/2"	Yes	No	Yes	1
WC-B	KOHLER	5296	Two piece, 12" rough-in, elongated 16-1/2" high bowl, siphon jet flushing action, actuator located on open side of room. Elongated open front seat. Provide with 1/4" brass ball valve at wall connection.	Kohler / K-5588	4"	2"	1/2"	Yes	No	Yes	1
WH	WOODFORD	B67	Automatic draining freezeless wall hydrant witH ASSE 1052 double check backflow preventor, loose tee key handle, with recessed box with door. Provide with chrome plated exterior finish.				3/4"	Yes	No	No	

TRIM

- PROVIDE FIXTURES WITH ALL TRIM NECESSARY FOR COMPLETE INSTALLATION.\

PRODUCT DESCRIPTION

- 1. IN AREAS OPEN TO PUBLIC, FIXTURE AND INSTALLATION TO MEET REQUIREMENTS OF AMERICANS WITH DISABILITIES ACT. IN APARTMENTS, FIXTURE AND INSTALLATION TO MEET REQUIREMEJNTS OF THE FAIRHOUSING
- 3. INSULATE WATER AND WASTE PIPING BELOW FIXTURE. UTILIZE INSULATION KIT EQUIVALENT TO LAVGUARD BY TRUEBRO. PROVIDE PLUMBEREX MODEL #3071WD-N WASTE DISPOSAL COVER. 4. TRIM SHALL BE PROVIDED WITH POLISHED CHROME FINISH.



FIRE PROTECTION RISER DIAGRAM
NO SCALE

TO DRY HEADS

WATER FLOW DETECTOR.

PRESSURE GAUGE

WITH VALVE TYPICAL -

PROVIDE THRUST

IN DIRECTION. SEE

BLOCKS AT CHANGES

TAMPER SWITCH, TYP.

WET HEADS.

—CHECK VALVE.

PROVIDE BALL DRIP AS REQUIRED

PROVIDE 4" LINE TO FIRE

DEPARTMENT CONNECTION. COORDINATE LOCATION AND SIZE WITH FIRE

REQUIREMENTS WITH CITY PRIOR TO PURCHASE AND INSTALLATION.

CLOSET WALL

GROUND FLOOR

FIRE SPRINKLER

REQUIREMENTS WITH

PRESSURE AVAILABILITY

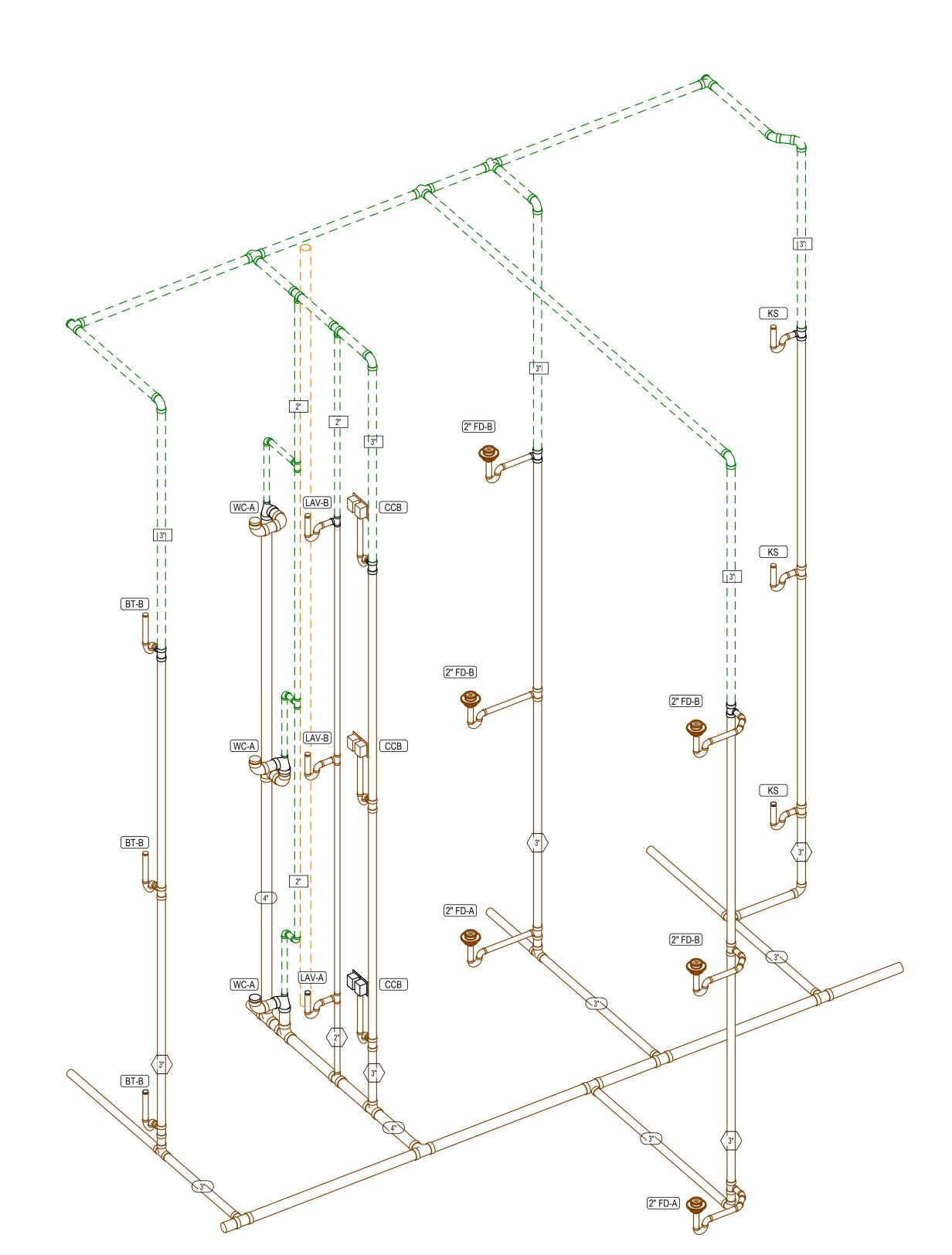
AND FIRE SPRINKLER

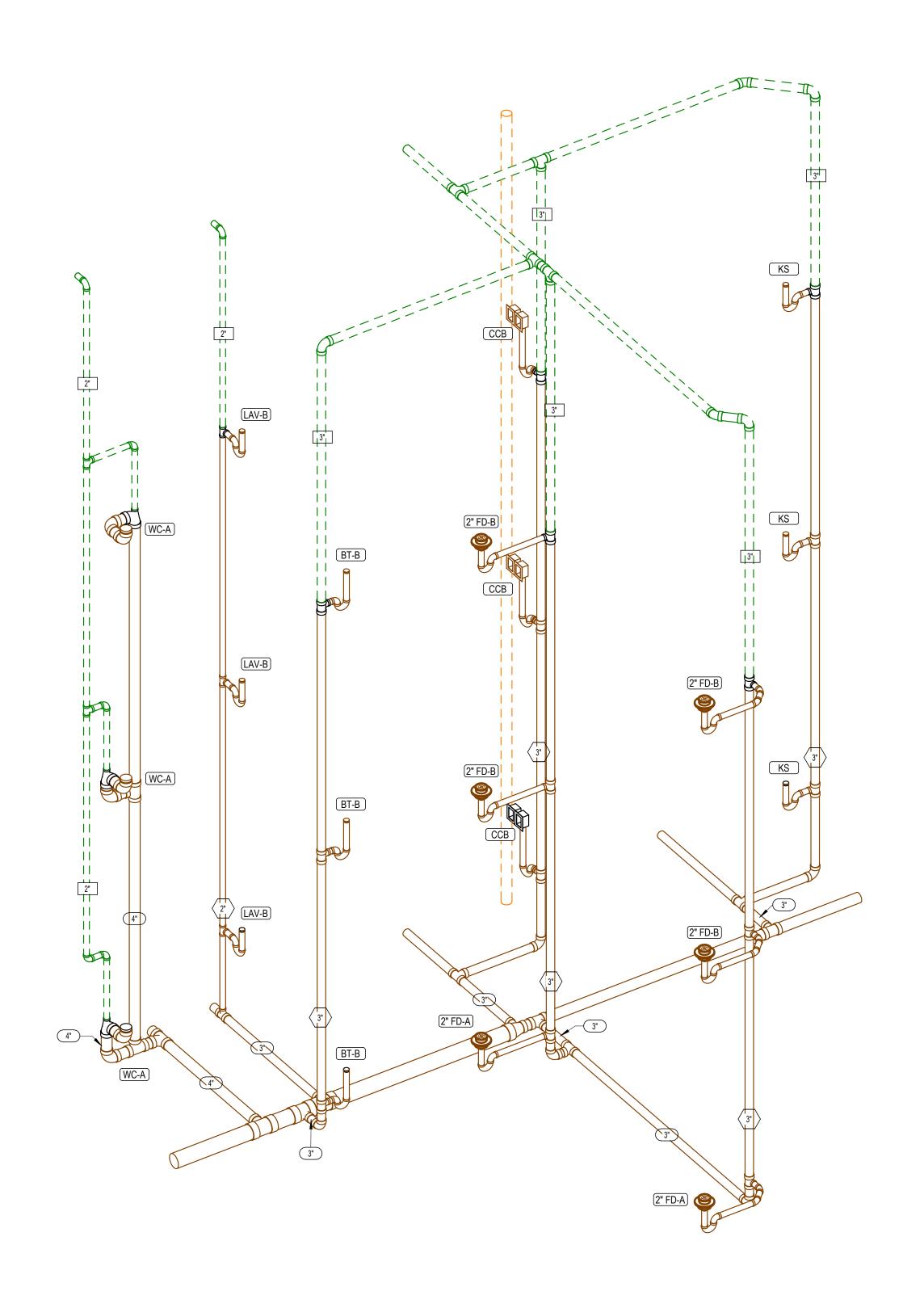
REQUIREMENTS.

SERVICE.

VERIFY SIZE

FROM FIRE SPRINKLER AIR COMPRESSOR





5

sGillamRenz

TENNESEE

RESERVES AT COBALT CIRCLE
NEW APARTMENT COMPLEX

BROWNSVILLE

PICK

DEPT OF TENT

O5-09-2025

05-09-20 REVISIONS:

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DATE: 05/09/202

DATE: 05/09/2025

JOB: 24-344

SHEET NO.:

P9.1

4 DOMESTIC SERVICE TO 3RD FLOOR DWELLING UNIT. SEE P4.1 FOR CONTINUATION.

TENNESEE

CIRCLE COBALT AT

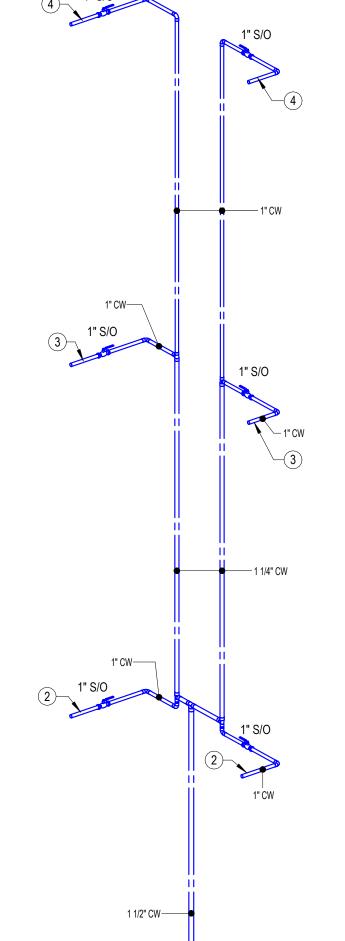
RESERVES

뿓

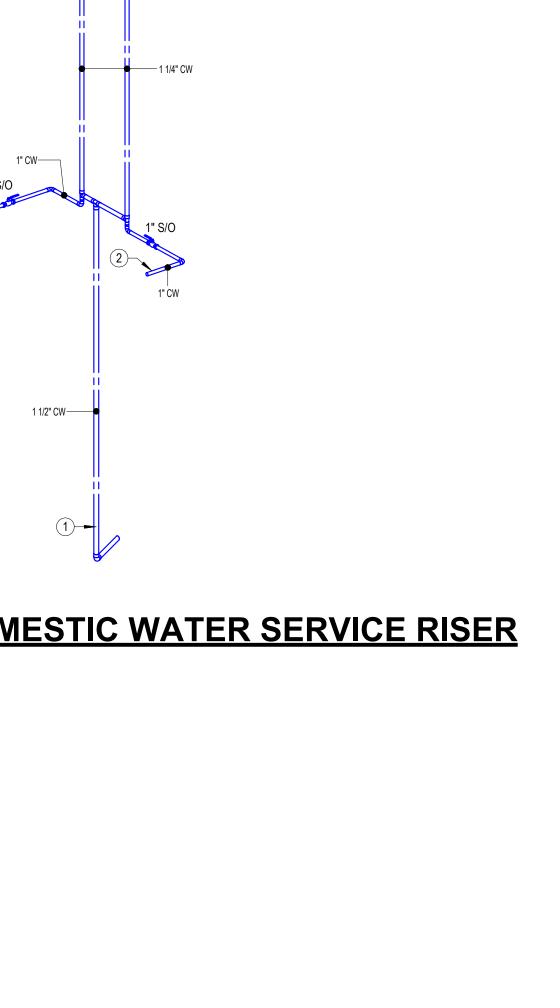
NEW APARTMENT COMPLEX

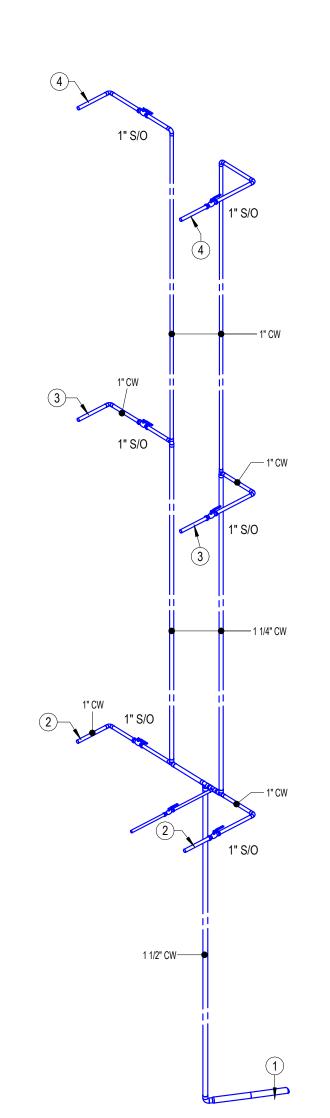
BROWNSVILLE

P9.3



TYPICAL 2 BEDROOM DOMESTIC WATER SERVICE RISER





1 1/2" CW-----

1.1

1.1 1.1 1.1

BT-B

CIRCLE

COBALT

THE RESERVES AT

P9.2

KS