BC Engineers e: richard@bcengineer.com

TENANT

Country Club Bank

e: moconner@countryclubbank.co

LANDLORD

Ian O'Connell

28 SE 3rd Street Lee's Summit, Missouri 64063

Country Club Bank Downtown Lee's Summit 32 SE 3rd Street, Lee's Summit, Missouri

PROJECT SUMMARY

BUILDING SHELL CODE SUMMARY:

Occupancy Type: 'Non-Separated Mixed Uses' (IBC 508.3) M (Mercantile), B-Business

SHELL BUILDING SUMMARY:

Type III-B, non-sprinklered Construction Type: Actual Total Area:

Allowable: Height, Actual: Height, Allowable:

7,160 sf - ground floor 12,500 sf/floor (per M) 40 ft., 2 story 55 ft., 2 story (per M)

TENANT CODE SUMMARY:

TENANT CODE SUMMARY:

Occupancy Type: B - Business / III-B, non-sprinklered Construction Type: 2,400 sf Tenant Area:

16 occ (@150occ/sf; per table 1004.5) Max. Occupancy 2 (1 required, 1006.2) Number of Exits: Max. Travel to Exit: 75' (200' allowable,1017.2) Max. Common Path: 45' (75' allowable, 1006.2.1)

Toilet Fixtures: 2 actual, *2 reqd (1/25 occ for 1st 50, 1/50 after) (*separate facilities over 15 occ)

APPLICABLE CODES:

International Building Code (IBC), 2018 International Mechanical Code (IMC), 2018 International Plumbing Code (IPC), 2018 International Fire Code (IFC), 2018 International Fuel Gas Code (IFC), 2018 International Energy Conservation code (IECC), 2018 National Electric Code, 2017

NORTH Adjacent

KEY PLAN

Not to Scale

PROJECT LOCATION

Not to Scale NORTH



DRAWINGS

ARCHITECTURAL:

Schedules & Int Dtls Floor Plan

Ceiling Plan

MECH / ELEC / PLUMBING:

Mech/Elec Specs

Mechanical Plan Mechanical Schedules

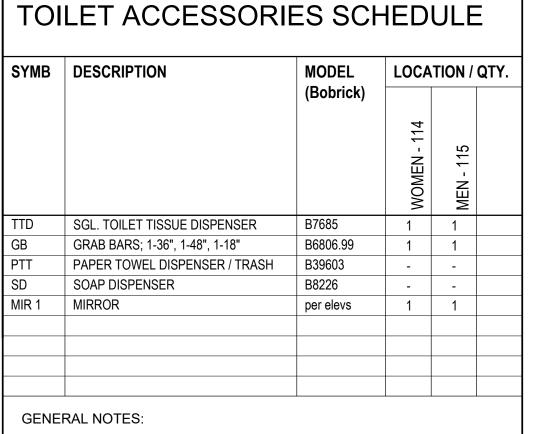
Waste/Vent Plans Water/Gas Plans

Electrical Notes Power/Lighting Plans **Electrical Schedules**

> **Country Club Bank** Lee's Summit

Oct. 20, 2020

Revision 1



- 1. INSTALL PER MANUFACTURER'S REQUIREMENTS & INSTRUCTIONS
- 2. INSTALL TO MEET ADA AND ANSI STANDARDS. 3. BOBRICK CATALOG NUMBERS HAVE BEEN USED
- 4. PROVIDE WOOD BLOCKING IN WALL FOR ANCHORING GRAB BARS. 5. PROVIDE PRODUCT DATA FOR TENANT APPROVAL PRIOR TO ORDERING

SUBMITTALS; GENERAL NOTES

GENERAL NOTES:

- Tenant shall be involved in selection and/or final approval of all materials, products and colors - prior to ordering and installation.
 - Including, but not limited to:
 - a. Flooring products b. Ceiling tile
- c. Door Hardware
- d. Door wood type/stain e. Laminates
- Paint and Stain colors Toilet Accessories
- Light fixtures i. Plumbing fixtures

INTERIOR WORK AND EQUIPMENT BY

2'-5 1/2"

3'-1 1/4"

TL-15 SAFE-NIGHT

DEPOSITORY BY VSI

PLAS LAM ON 2 LAYERS 3/4" PLYWOOD, ON 3-5/8" MTL STUDS ——

5/8" GYP BD ON 3-5/8" MTL STUDS —

ELEC & ALARM J-BOXES ———

INTERIOR DOOR ----

- CASEWORK DESIGN & FABRICATION:
- Casework Contractor shall provide shop drawings. Full shop drawings and samples shall be provided for approval by the Tenant & Contractor prior to

STOREFRONT SYSTEM BY LANDLORD.

STOREFRONT

-SHT MTL BASE

- UNIT FACEPLATE

FACADE WALL & STOREFRONT BY LANDLORD

- CERAMIC TILE

WATERPROOFING

-6" METAL STUDS

MASONRY CURB

FINISH

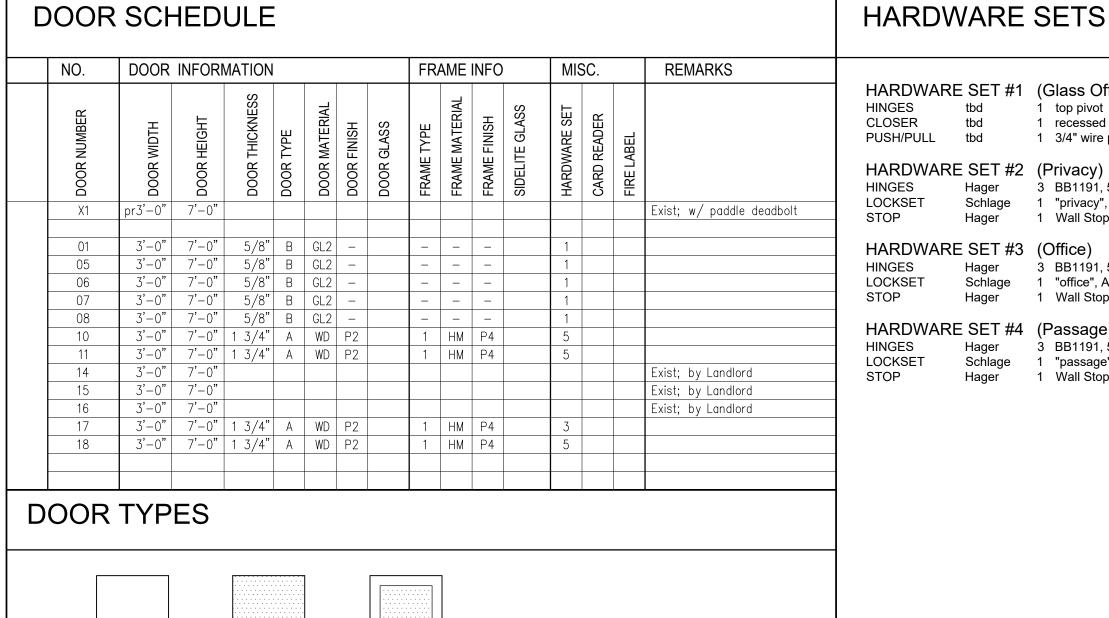
ON 1/2" SHEATHING

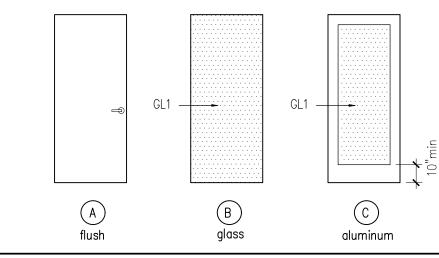
— EXISTING

SYSTEM

FLASH

VERIFY CONDITIONS





- AWNING

EXIST PTD

— ATM

H INFILL;

CONC STEP

ATM SCALE: 1/4" = 1' - 0"

A. LOOKING WEST

WD TRIM

FACEPLATE

PTD CEMENT BD?

PLAM TOP —

PLAM CABTS

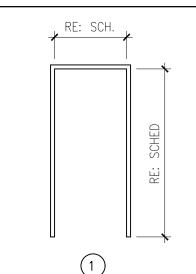
2'-6" 2'-6" 3'-0"

WORK ROOM SCALE: 1/4" = 1' - 0"

A. LOOKING NORTH

BRICK WALL

FRAME TYPES



Hardware supplier shall review hardward styles, functions and finishes with the Tenant prior to ordering. Review keying system with Tenant and Landlord. Coordinate with

HARDWARE NOTES:

HARDWARE SET #1 (Glass Office)

HARDWARE SET #3 (Office)

HARDWARE SET #4 (Passage)

CLOSER

HINGES

HINGES LOCKSET

HINGES

LOCKSET

LOCKSET

1 top pivot

1 recessed floor closer/pivot

Hager 3 BB1191, 5 knuckle, 4.5 x 4.5

Hager 3 BB1191, 5 knuckle, 4.5 x 4.5

Schlage 1 "office", AL-series, saturn lever

Hager 1 Wall Stop 236W, concave

1 Wall Stop 236W, concave

Hager 3 BB1191, 5 knuckle, 4.5 x 4.5 626

Schlage 1 "passage", AL-series, saturn lever 626

1 3/4" wire pull and push bar

Schlage 1 "privacy", AL-series, saturn lever 626

626

626

1 Wall Stop 236W, concave

All interior doors with closers shall comply with opening force (5#) and closing speed (from 90d to 12d = 5 sec min) as required by ADA404.2.8 and 404.2.9

FINISH SCHEDULE

MAR	RK ROOM NAME	FLR.	BASE	WALL	.S	WAINS	SCOT	CEILING	CEIL'G	REMARKS
				mat.	color	mat.	color	1	HT.	
101	VESTIBULE	CT	CT	P-1				P5	10'-6"	
102	LOBBY	CT	CT	P-1				ACT1	10'-6"	
103	OFFICE	CPT	RB	P-1				ACT1	10'-6"	
104	OPEN OFFICE	CPT	RB	P-1				ACT1	10'-6"	
105	PHONE ROOM	CPT	RB	P-1				ACT1	10'-0"	
106	CONFERENCE	CPT	RB	P-1				ACT1	10'-6"	
107	OFFICE	CPT	RB	P-1				ACT1	10'-0"	
108	OFFICE	CPT	RB	P-1				ACT1	10'-0"	
109	COPY AREA	CPT	RB	P-1				ACT1	10'-6"	
110	WORK ROOM	VCT	RB	P-1				ACT1	9'-0"	
111	DATA ROOM	VCT	RB	P-1				ACT1	9'-0"	
112	BREAK AREA	CT	СТ	P-1				ACT1	9'-0"	
113	STORAGE	CT	СТ	P-1				ACT1	9'-0"	
114	WOMEN'S ROOM	CT	СТ	P-6		СТ		P5	9'-0"	*FINISHES BY LANDLORD
115	MEN'S ROOM	CT	СТ	P-6		СТ		P5	9'-0"	*FINISHES BY LANDLORD
116	HALL	CT	СТ	P-1				ACT1	9'-0"	
117	MOTHER'S ROOM	CPT	RB	P-1				ACT1	9'-0"	
118	ATM ROOM	SLC	RB	P-1				ACT1	9'-0"	

MATERIAL SELECTION SCHEDULE

SYMBOL	DESCRIPTION	SELECTION / MANUFACTURER	NOTES/COLOR
SLC	SEALED CONCRETE	TYPE: TO BE SELECTED	COLOR: CLEAR
CPT	CARPET, BROADLOOM	TO BE SELECTED	COLOR: (to be selected)
СТ	CERAMIC TILE	TO BE SELECTED	COLOR: (to be selected)
VCT	VINYL COMPOSITION TILE	ARMSTRONG, STD. EXCELON, 12x12	COLOR: (to be selected)
RB	RUBBER BASE	ROPPE, 4" COVE	COLOR: (to be selected)
WD	WOOD	PAINT GRADE (POPLAR)	COLOR: see below
		SHERWIN-WILLIAMS noted (or per finish plan):	
P-1	PAINT—new drywall for regular ptg.	Pro-Mar 200 Primer; Pro-Mar 200 Eggshell	COLORS: SEE BELOW
P-2	PAINT-wood doors & trim	Wood Primer; Color Accents (2)	COLORS: SEE BELOW
P-3	STAIN-wood doors & trim	Polyurethane Varnish, matte (no stain)	COLORS: SEE BELOW
P-4	PAINT—interior metals	Alkyd Metal Primer; Color Accents (2)	COLORS: SEE BELOW
P-5	PAINT-drywall ceilings	Style Perfect Latex Ceiling	COLORS: SEE BELOW
P-6	PAINT-drywall in restrooms	PrepRite 200 Primer; Pro-Ind Hi-Bild Epoxy(2)	COLORS: SEE BELOW
ACT1	2X2 ACOUSTIC CLG	TYPE: USG 'RADAR', tegular edge, white	W/ STD. 15/16" WHITE GRID
GL1	1/4" INTERIOR GLASS	1/4" TEMPERED GLASS	CLEAR
GL2	GLASS WALLS & DOORS	5/8" TEMPERED GLASS	CLEAR
PL1	PLASTIC LAMINATE (countertops)	TYPE: FORMICA	COLOR: TBD
PL2	PLASTIC LAMINATE (cbt. faces)	TYPE: FORMICA	COLOR: TBD
D 4 14	IT AAL AB AELE	0710110	_

PAINT COLOR SELECTIONS

COLOR	LOCATIONS	COLOR SELECTION	FINISH	NOTES
color "A"	Wall Color	Color: To be selected	Eggshell	
color "B"	Wall Color	Color: To be selected	Eggshell	
color "C"	Drywall Ceiling Color	Color: To be selected	Flat	
color "D"	Door Frames & Doors	Color: To be selected	Semi-gloss	
color "E"	Painted wood trim	Color: To be selected	Semi-gloss	

Tenant Finishes

CONSTRUCTION AS NOTED ON PLANS REVIEW

LEE'S SUMMIT, MISSOURI

ARCHITECTURE

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BC Engineers

Shawnee, Kansas 66203

Country Club Bank

32 SE 3rd Street Lee's Summit, MO



Issue	Date
Review Set	6. 12. 20
Review Set	7. 13. 20
Permit Set	7. 19. 20
Revision 1	10. 20. 20

Schedules & Int Elevs

VERIFY SINK WILL FIT IN CABT 3'-5" 8'-8" PLAM TOP — — PLAM REF TOP PLAM TOP -PLAM CABTS -CABTS BRACKETS — 2'-0" 2'-6" 2'-6" 1'-6" A. LOOKING NORTH A. LOOKING EAST A. LOOKING NORTH

MOTHER'S RM SCALE: 1/4" = 1' - 0"

BREAK ROOM SCALE: 1/4" = 1' - 0" **B2**

Flush Type

DISPENSER LOCATION

GRAB BARS Side Wall

GRAB BARS Back Wall 36"min
(24" @ restricted space)
24"min 12"min

B

PHONE ROOM SCALE: 1/4" = 1' - 0"

DISPENSER LOCATION

ACCESSIBILITY GUIDELINES
SCALE: 1/4" = 1' - 0"

NIGHT DEPOSITORY SCALE: 1" = 1' - 0"

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UDO ARTICLE #9 REQUIREMENTS:

The following shall be provided or verified, in compliance with CPTED provisions of UDO Article 9 for Bank and Financial Services (Amendment #33):

- a. Lighting RequirementsIndoor-Lobby Light levels of sufficient intensity to
 provide for high resolution video data recording from the
 digital video surveillance cameras in accordance with the
- camer manufacturer's specs.

 Outdoor Minimum lighting levels of 5 footcandles shall be maintained at the store's entrance or shall be sufficiently lit to provide for high resolution video data recording of outside activity within 50 feet of the entrance.
- b. Provide signage banning disguises; i.e., no caps sunglasses or visors, etc.
- c. Provide video surveillance camera(s), two-color digital high definition as follows:
 - To maintain view of cash register counter;
 To maintain view of all public and/or employee entrances into building/tenant space;
 - To maintain view of customers leaving via a door mounted pin hole camera to be positioned at a height of between 4 and 5 feet from the bottom of the door; Capable of providing a min. storage of 30 days of data.
- d. Provide an alarm system; as follows:
 Alarm system shall be monitored off-site;
 Silent panic alarm shall be provided at each cash register;
 Each teller and each employee directly accessible to the public shall be provided a remote alarm to wear on their person;
- Provide alarm activation inside walk-in vaults.

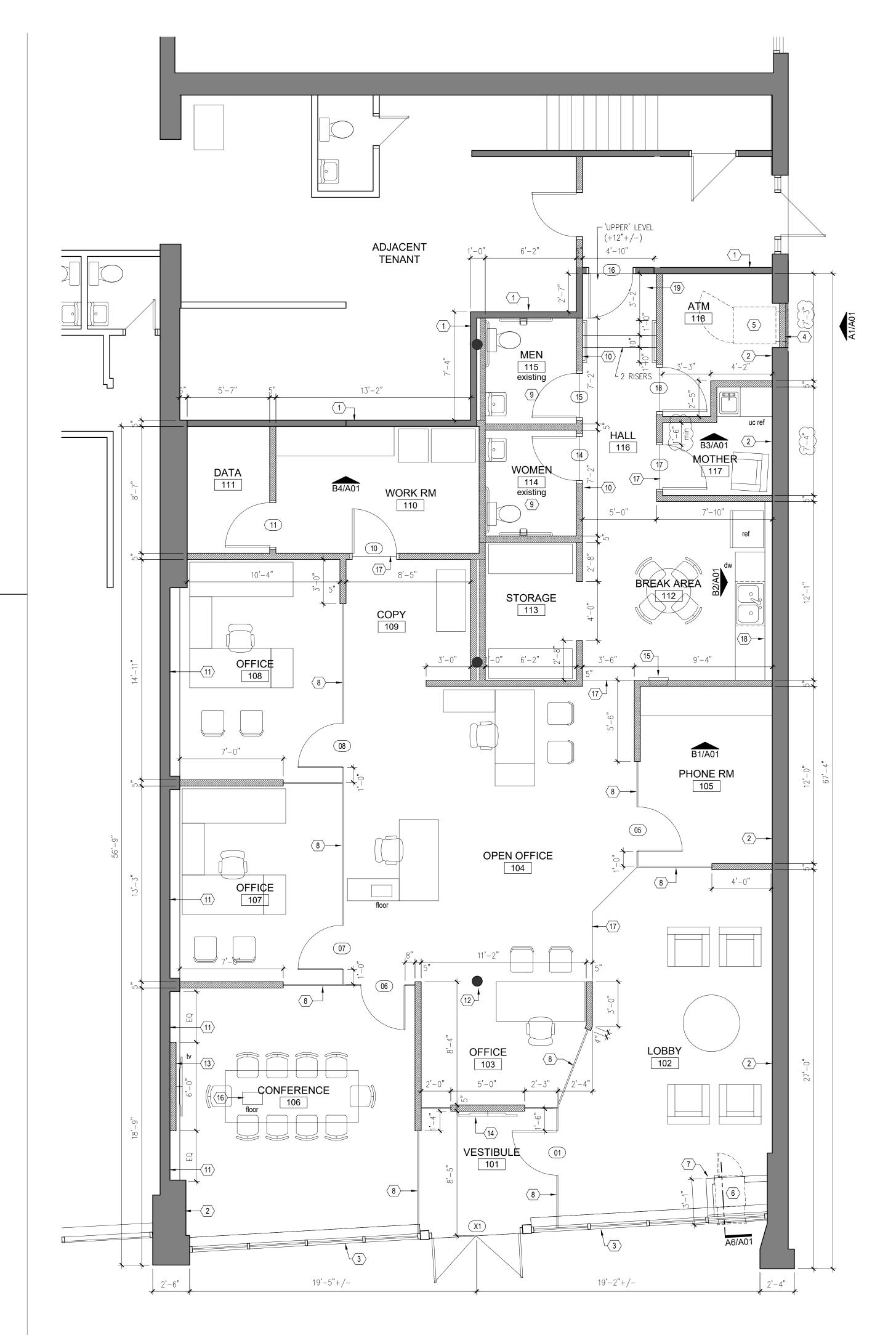
 e. Provide automatic door locks on primary exits. Automatic door locks shall be capable of being locked from any cash transaction counter.
- transaction counter.

 f. Provide unobstructed line of sight at all times from the cash register to the front door. Window areas shall be free from posters, flyers and other such visibility blockers.
- g. "Height Strips" shalol be required at each public entrance in direct view of employess.
- h. "No Loitering/Trespass" sign shall be posted at the front entry to the building.

P3 UDO ARTICLE 9

- Demise Wall; existing, constructed by Landlord. Floor level changes between tenant spaces occur at this location.
- 2 Existing exposed brick wall to remain.
- 3 Storefront, replaced by Landlord; with pair entry doors.
- Replace existing door opening with exterior infill wall for new ATM. Modify door curb/threshold if required to provide faceplate of ATM at ADA required levels outside.
- 5 ATM unit: NCR SelfServ 84 Walk-Up Interactive Teller.
- FL-15 Safe-Night Depository, by Vault Structures Inc.
 Mounted thru facade wall in the Storefront, provided by Landlord.
- Construct partial height enclosure with cap, for Night Depository per details.
- Full height "Herculite" glass wall system, butt-joints, with stainless steel connectors. Doors shall include floor closers, and stainless steel pulls and hinges.
- 9 Restroom. Existing, constructed by Landlord, including plumbing fixtures, ceiling, lights, exhaust fan, floor finish, epoxy painted walls, grab bars, mirror, toilet tissue dispenser.

 Tenant Contractor to install 4'h (min) ceramic tile wainscot on all walls.
- Restroom Signage: plastic 6x9 with raised symbols and braille per code. Next to door at 54"h centerline.
- (11) New drywall veneer on existing wall.
- (12) Existing steel column, to remain. Painted.
- 5/8" gypsum board on 3-5/8" metal studs, for concealment of conduit for wall mounted TV monitor.
- Wall-mounted electronic display. Coordinate power requirements.
- 2A10BC 5lb.fire extinguisher, in semi-recessed cabinet. J.L. Industries 'Ambassador' 1017V10, or equal.
- Provide flush floor box and underslab conduit routing for electrical and data below conference table.
- Line of flooring finish change.
- Half-wall with wood cap at 4' high, insulated, for routing sink plumbing. Exposed brick wall above.
- Construct landing and steps, construction to match new floor by Landlord (1" gypcrete on plywood on 2x framing). Provide 1-1/2" od steel tube handrails at 36" above floor/tread, extend 12" beyond top and bottom.



GENERAL NOTES:

- Dimensions are based on existing shell conditions, from a Base Plan provided by the Landlord. Dimensions shall be verified, and adjusted as necessary for actual conditions.
- 2. Interior dimensions are to face of finish wall, typical. Allow 5" for thickness of wall, UNO.
- 3. Existing exterior walls are primarily to remain as exposed brick. Assure walls are provided in satisfactory condition by Landlord, with portions of old plaster removed.
- 4. All new interior partitions shall be 3-5/8" metal studs @ 16"oc, with 5/8" gyp. bd. each side to 4" above ceiling; unless otherwise noted. Provide Sound Batt Insulation between offices and around toilet rooms.
- 5. Provide blocking in walls as required for anchorage of wall mounted equipment and devices (ie; casework, grab bars, toilet partitions, etc).
- 6. New restrooms are existing, provided by Landlord under separate 'white box' permit.
- Provide moisture resistant gypsum board (greenboard) or cement board (dura-wall, etc) in the following locations:
- a. Toilet Rooms, on wet walls and walls adjacent to wet
- b. Janitor Rooms with mop sinks.
- Walls adjacent to plumbing fixtures or equipment with water supply (to 4' from fixture).
- d. As substrate for tile or masonry finishes.

 8 Painting requirements:
- 8. Painting requirements:
 a. Typical Walls: Sherwin-Williams 'Pro-mar 200' primer with
- 'Pro-mar 200' Eggshell, or equal.
 b. Painted Wood Trim & Doors: Sherwin-Williams 'Pro-mar
- 200' primer with 'Pro-mar 200' Alkyd semi-glossl, or equal . Interior finishes shall be as follows. Selections by the Tenant:
- a. Floor Finishes Carpet Tile, Ceramic Tile, VCT, rubber base
- b. Walls Painted
- c. Wainscot in Restrooms Ceramic Tile
- d. Doors and trim Painted
- e. Cabinetry types and finishesf. Door hardware types and finishes
- 10. Tenant to provide fixtures and furniture, including bank equipment (ie, ATM and Night Depository).
- 11. HVAC systems shall be 'design/build' by the Mechanical Contractor. Coordinate with base equipment and conditions provided by Landlord. Provide appropriate distribution to spaces based on the partition layout. All new work shall conform to applicable Building Codes. If required by the IMC, duct smoke detection shall be installed, and connected to the building fire alarm system.
- 12. Electrical and Lighting Systems shall be 'design/build' by the Electrical Contractor. Provide adequate power outlets, power for equipment, and light fixtures. Design the new circuits utilizing the existing Electric Panel provided by Landlord. All new work shall conform to applicable Building Codes.
- 13. The Electrical Contractor shall design and install the emergency lighting and exit signage, and provide appropriate locations, spec, or quantities as required for compliance with local Building Codes and requests of Fire Marshall.
- 14. Plumbing Systems shall be 'design/build' by the Plumbing Contractor. Provide new plumbing fixtures indicated on the drawings, and appropriate water and waste systems. Tie into existing building systems. All new work shall conform to applicable Building Codes. Review plumbing fixture selections with the tenant prior to ordering. (note: plumbing in the two restrooms shall be existing, constructed by Landlord).
- 15. Provide design and the modifications to the existing fire-sprinkler system to supply coverage to comply with NFPA-13, for any areas affected by the new work. Provide semi-recessed heads in ceiling tiles; and recessed heads that occur in drywall ceilings. Provide 1" signage at ceiling to indicate location of any concealed fire-sprinkler valves.
- 16. Provide exterior lighted wall sign(s), per Tenant's sign vendor.Coordinate electrical requirements.

41 GENERAL NOTES

LEE'S SUMMIT, MISSOURI
02/02/2021

A R C H I T E C T U R E

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW

ARCHITECT

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OWNER/TENANT

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One Ward Parkway
Kansas City, Missouri 64112

tel: 816.931.4060 e: tandrews@countryclubbank.com

Tenant Finishes

Country
Club Bank

32 SE 3rd Street Lee's Summit, MO



 Issue
 Date

 Review Set
 6. 12. 20

 Review Set
 7. 13. 20

 Permit Set
 7. 19. 20

 Revision 1
 10. 20. 20

Floor Plan
A10

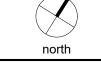
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13 PLAN KEY NOTES

A₂

FLOOR PLAN Scale: 1/4" = 1' - 0"







CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/02/2021

ARCHITECTURE

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e. tandrews@countryclus

GENERAL CEILING NOTES:

1. SHELL BUILDING CONDITIONS:

a. Tenant Contractor shall repair any damaged areas of existing ceiling to

assure stability of surfaces.
2. CEILING TYPES AND HEIGHTS:

a. Ceiling heights are noted on the plan.b. Refer to Architectural Finish Schedule for

ceiling types.

c. Approximate height of existing ceiling/structure above is 13'-4". Field Verify. Confirm adequate clearances are available for ceiling heights scheduled. Assure clearances for HVAC ducts and equipment, lights, structure, and other obstructions. Bring areas of conflict to attention of Architect and Engineer prior to installation of grid.

3. HEADERS AND SOFFITS:

 Headers shall be 5/8" gyp bd on 3-5/8" metal studs, suspended from structure. Bottom of header elevations are shown on Ceiling Plan.

b Provide headers above Herculite glass walls, for installation of top glass receiver. Provide kickers to structure as required for wall stability.

 Provide 1/2" gyp bd on soffits and drywall ceilings, on metal framing or suspension systems.

4. GRID LAYOUT:

 Center the grid in the middle of rectangular rooms, unless shown otherwise.

b. Move grid slightly to eliminate very narrow panels; or provide oversize panels.

5. LIGHT FIXTURE LOCATIONS:

 Suggested locations of light fixtures are shown on the ceiling plan.

b. Fixture types shall be verified by Tenant.c. Electrical Contractor shall verify adequate lighting values for layout, and adjust

d. Suggested locations for exit signs and emergency lighting units are shown on the ceiling plan. Verify compliance with local codes and approval by Fire

Marshall.
6. MECHANICAL DEVICES:

a. Locations of diffusers, grilles and other devices shall be determined by the Mechanical Contractor.

Tenant Finishes

Country
Club Bank

32 SE 3rd Street Lee's Summit, MO



Date
6. 12. 20
7. 13. 20
7. 19. 20
10. 20. 20

Finishes & Ceiling Plans

A11

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B. OBTAIN ALL PERMITS, FEES, LICENSES, INSPECTIONS, AND CERTIFICATES OF COMPLIANCE OR APPROVAL AS REQUIRED BY THE AUTHORITIES.

C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS OF THE GOVERNMENTAL BODIES HAVING JURISDICTION OVER THE SITE.

D. ALL TESTING REQUIRED BY AUTHORITIES SHALL BE CONSIDERED PART OF THIS WORK.

E. DURING CONSTRUCTION, ALL FIXTURES, EQUIPMENT, PIPE, DUCT, ETC. SHALL BE COVERED, PLUGGED, OR CAPPED AS REQUIRED TO KEEP CLEAN AND UNDAMAGED. ALL DAMAGED ITEMS SHALL BE RESTORED TO ORIGINAL CONDITION OR REPLACED. ALL PROTECTIVE COVERING SHALL BE REMOVED BEFORE FINAL

F. PROVIDE ALL NECESSARY CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, AND ROOFS AS NECESSARY. PATCH AROUND ALL OPENINGS SHALL MATCH ADJACENT AREA. COORDINATE ALL ROOFING WORK WITH OWNER OR RESPONSIBLE PARTY, SO THAT THE EXISTING ROOFING WARRANTY WILL BE

G. CONTRACTOR SHALL GUARANTEE ALL MORK AND MATERIALS AGAINST DEFECTS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.

2. OPERATION AND MAINTENANCE MANUALS:

A. DURING THE COURSE OF CONSTRUCTION, COLLECT AND COMPILE OPERATING INSTRUCTIONS, WIRING DIAGRAMS, CATALOG CUTS, LUBRICATION AND PREVENTIVE MAINTENANCE INSTRUCTIONS, PARTS LISTS, ETC. FOR ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT.

B. ALL LITERATURE AND INSTRUCTIONS SHIPPED WITH THE EQUIPMENT SHALL BE SAVED FOR INCLUSION IN THE OPERATION AND MAINTENANCE MANUALS

C. ALL LITERATURE LISTED ABOVE AND ALL PAPERS LISTING WARRANTIES, ETC. SHALL BE BOUND IN A 3-RING BINDER AND LABELED WITH THE PROJECT NAME, ADDRESS, ARCHITECT, ENGINEER, CONTRACTORS, ETC.

3. MANUFACTURERS

A. MANUFACTURERS, MODEL NUMBERS, ETC. INDICATED OR SCHEDULED ON THE DRAWINGS SHALL BE INTERPRETED AS HAVING ESTABLISHED A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED AS LIMITING COMPETITION. ARTICLES, FIXTURES, ETC. OF EQUAL QUALITY BY MANUFACTURERS SHALL BE ACCEPTABLE, SUBJECT TO STRUCTURAL AND ELECTRICAL CONSTRAINTS OF THE PROJECT DESIGN, UNLESS NOTED OTHERWISE.

4. MOTORS:

A. PROVIDE THERMAL OVERLOAD PROTECTION FOR EACH MOTOR PROVIDED BY THIS WORK.

5. TESTING, BALANCING, AND CLEANING

A. ALL PIPING SHALL BE TESTED FOR LEAKS BEFORE BEING CONCEALED IN WALL CONSTRUCTION OR COVERED WITH INSULATION

B. SEWER AND VENT PIPING SHALL BE HYDROSTATICALLY TESTED WITH NO LESS THAN 10 FEET OF HEAD

FOR A PERIOD OF NOT LESS THAN 15 MINUTES, PER THE LOCAL PLUMBING CODE, WITH NO LEAKS. C. DOMESTIC WATER PIPING SHALL BE HYDROSTATICALLY TESTED AT A PRESSURE OF NOT LESS THAN 1-1/2 TIMES THE OPERATING PRESSURE, BUT NOT LESS THAN 60 PSI, FOR A PERIOD OF NOT LESS THAN 2

D. NATURAL GAS PIPING SHALL BE PNEUMATICALLY TESTED AT A PRESSURE OF NOT LESS THAN 1-1/2 TIMES THE OPERATING PRESSURE, BUT NOT LESS THAN 50 PSI, FOR A PERIOD OF NOT LESS THAN 2

E. DUCTWORK AND PIPING SHALL BE BALANCED BY QUALIFIED BALANCING PERSONNEL WHO HAVE PREVIOUS EXPERIENCE WITH BALANCING PROCEDURES.

F. BEFORE DOMESTIC WATER PIPING IS PLACED IN SERVICE, ALL DOMESTIC WATER DISTRIBUTION SYSTEMS, INCLUDING THOSE FOR COLD WATER AND HOT WATER SYSTEMS, SHALL BE FLUSHED, STERILIZED AND CHLORINATED IN ACCORDANCE WITH HEALTH DEPARTMENT REGULATIONS. THE SYSTEMS SHALL BE THOROUGHLY FLUSHED OF ALL DIRT AND FOREIGN MATTER, THEN FILLED WITH WATER TREATED WITH 50 PPM OF CHLORINE. DURING THE FILLING PROCESS, VALVES AND FAUCETS SHALL BE OPENED SEVERAL TIMES TO ASSURE TREATMENT OF THE ENTIRE SYSTEM. THE TREATED WATER SHALL BE LEFT IN THE SYSTEM FOR 24 HOURS AFTER WHICH TIME THE SYSTEM SHALL BE FLUSHED; IF THE RESIDUAL CHLORINE IS NOT LESS THAN 10 PPM, THE FLUSHING SHALL BE REPEATED. AFTER STERILIZATION, SAMPLES OF WATER IN THE SYSTEM SHALL BE APPROVED BY THE BOARD OF HEALTH.

6. PLUMBING:

A. PROVIDE AN APPROVED WATER HAMMER ARRESTOR FOR EACH PLUMBING FIXTURE SUPPLY AS REQUIRED BY FIXTURE MANUFACTURER

B. ALL EXPOSED WASTE PIPE SHALL BE CHROME PLATED BRASS PIPE, NO FERROUS PIPE.

C. PROVIDE CLEANOUTS AT EACH CHANGE OF DIRECTION AND AT 100 FOOT INTERVALS IN STRAIGHT RUNS.

D. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND TRAPS.

E. CLEANOUTS:

1) VINYL TILE FLOOR: JR SMITH #4140, OR EQUAL. 2) QUARRY TILE FLOOR: JR SMITH #4200, OR EQUAL.

B) CARPETED FLOOR: JR SMITH #4020-Y, OR EQUAL 4) UNFINISHED FLOOR: JR SMITH #4020, OR EQUAL 5) WALL: JR SMITH #4472, OR EQUAL, 24" ABOVE THE FLOOR.

F. PROVIDE DIELECTRIC UNIONS WITH APPROPRIATE END CONNECTIONS TO MATCH THE PIPE SYSTEM IN WHICH INSTALLED (SCREWED, SOLDERED, OR FLANGED). PROVIDE DIELECTRIC UNIONS ON ALL PIPING

CONNECTIONS TO HOT WATER HEATERS AND EXPANSION TANKS.

G. WATER HEATERS: 1) EVERY WATER HEATER SHALL HAVE AN APPROVED MEANS INSTALLED ON THE COLD WATER SUPPLY LINE ABOVE THE EQUIPMENT TO PREVENT SIPHONING OF AN STORAGE HEATER OR TANK. 2) BOTTOM FED WATER HEATERS AND TANKS CONNECT TO WATER HEATERS SHALL HAVE A VACCUM

RELIEF VALVE INSTALLED, ANSI Z21,22. 3) STORAGE HEATERS OPERATING ABOVE ATMOSPHERIC PRESSURE SHALL HAVE AN APPROVED

PRESSURE RELIEF VALVE AND/OR TEMPERATURE RELIEF VALVE. H. ALL SEMER PIPING LOCATED INSIDE THE BUILDING SHALL BE INSTALLED MITH THE FOLLOWING SLOPES.

1) INSTALL 2-1/2" AND SMALLER PIPE AT 1/4" PER FOOT FALL. 2) INSTALL 3" AND LARGER PIPE AT 1/8" PER FOOT FALL 3) INSTALL ALL GREASE WASTE PIPING AT 1/4" PER FOOT FALL.

7 PIPING

A. DOMESTIC COLD, HOT, AND HOT WATER RECIRCULATING (ABOVEGROUND).

1) TYPE L HARD DRAWN COPPER TUBING, ASTM B-88.

a) WROUGHT COPPER SOLDERED FITTINGS, ASTM B75 ALLOY C12200. ANSI B16.22. MS5 SP-104. b) MECHANICAL PRESS COPPER FITTINGS FOR USE IN PLUMBING OR MECHANICAL APPLICATIONS. ASME B16.22, ASME B16.51, Or ASME B16.18. MECHANICAL PRESS COPPER FITTINGS SHALL CONFORM TO IAPMO PS-117 OR 2) PEX, HIGH-DENSITY CROSS-LINKED POLYETHYLENE TUBING SHALL BE MANUFACTURED TO THE

REQUIREMENTS OF ASTM F876 AND MEET THE STANDARD GRADE HYDROSTATIC PRESSURE RATINGS FROM PLASTIC PIPE INSTITUTE IN ACCORDANCE WITH TR-4/03.

a) PEX-A AND PEX-B MEETING ANSI/NSF61 AND ANSI/NSF372 STANDARDS FOR POTABLE WATER SAFETY AND LEAD-FREE STANDARDS AND MUST BE MARKED WITH "PW-6", "NSF-61-6" OR OTHER NSF-APPROVED MARKING. ASTM F2023 FOR USE WITH CHLORINATED WATER.

b) PEX MECHANICAL, CRIMP/INSERT OR EXPANSION FITTINGS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS PIPE SIZES GIVEN ON THE DRAWINGS ARE NOMINAL COPPER PIPE SIZE INCREASE PEX PIPING SIZE TO EQUAL OR EXCEED COPPER PIPE INSIDE DIAMETER FOR SUPPLY MAINS.

a) TO BE INSTALLED ON THE FIXTURE SUPPLY TO EACH PLUMBING FIXTURE.

b) TO BE INSTALLED ON THE WATER SUPPLY SIDE TO EACH APPLIANCE OR MECHANICAL EQUIPMENT.

1. GATE VALVE: JOMAR T/S-301G OR EQUAL. LEAD-FREE NSF 61, ANSI B1.20.1. . GLOBE VALVE: JOMAR TGG OR EQUAL

3. BALL VALVE: JOMAR JP100PXP OR EQUAL COMPACT LEAD FREE BRASS BALL VALVE. UL842, CSA 3371-12 & 3371-92, FM, CALIFORNIA CODE AB1953, NSF61 ANNEX G APPROVED. 4. BALL VALVE: JOMAR T-100NE OR EQUAL. UL842, FM, CSA, NSF 61-8, MSS SP-110

B. LEAD CONTENT OF WATER SUPPLY PIPE AND FITTINGS:

1) PIPE AND PIPE FITTINGS, INCLUDING VALVES AND FAUCETS, UTILIZED IN THE WATER SUPPLY SYSTEM SHALL NOT HAVE MORE THAN 8% LEAD CONTENT

2) PIPE, PIPE FITTINGS, JOINTS, VALVES, FAUCETS, AND FIXTURE FITINGS UTILIZED TO SUPPLY WATER FOR DRINKING OR COOKING PURPOSES SHALL COMPLY WITH NSF 372 AND SHALL HAVE A WEIGHTED AVERAGE LEAD CONTENT OF 0.25% OR LESS.

C. SANITARY SEWER AND VENTS. (UNDERGROUND, INTERIOR TO THE BUILDING).

ABS SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DMV FITTING SYSTEM: PIPE AND FITTINGS SHALL BE MANUFACTURED FROM ABS COMPOUND WITH A CELL CLASS OF 42222 FOR PIPE AND 32222 FOR FITTINGS AS PER ASTM D 3965 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 628 FITTINGS SHALL CONFORM TO ASTM D 2661. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2235.

2) PVC SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM: PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 11432 PER ASTM D 4396 FOR PIPE AND 12454 PER ASTM D 1784 FOR FITTINGS AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 891. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564.

3) PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM: PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D 1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF.) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D 1785 AND ASTM D 2665 IN IFCTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564.

4) HUBLESS CAST IRON SOIL PIPE AND FITTINGS: HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888 AND CISPI STANDARD 301. HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310 AND BE CERTIFIED BY NSF® INTERNATIONAL.

5) HUB AND SPIGOT CAST IRON SOIL PIPE AND FITTINGS: HUB AND SPIGOT CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 74.

MECHANICAL SPECIFICATIONS (CONTINUED)

D. SANITARY SEWER AND VENTS. (ABOVE GROUND, INTERIOR TO THE BUILDING).

1) ABS SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWY FITTING SYSTEM: PIPE AND FITTINGS SHALL BE MANUFACTURED FROM ABS COMPOUND WITH A CELL CLASS OF 42222 FOR PIPE AND 32222 FOR FITTINGS AS PER ASTM D 3965 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 628 FITTINGS SHALL CONFORM TO ASTM D 2661. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2235.

2) PVC SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DMV FITTING SYSTEM: PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 11432 PER ASTM D 4396 FOR PIPE AND 12454 PER ASTM D 1784 FOR FITTINGS AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F &91. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866, SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564.

3) PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM: PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D 1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D 1785 AND ASTM D 2665. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866 SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564. (WHERE APPROVED BY LOCAL JURISDICTIONS)

4) HUBLESS CAST IRON SOIL PIPE AND FITTINGS: HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888 AND CISPI STANDARD 301.

HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310 AND BE CERTIFIED BY NSF® INTERNATIONAL. 5) HUB AND SPIGOT CAST IRON SOIL PIPE AND FITTINGS: HUB AND SPIGOT CAST IRON PIPE AND FITTINGS

E. CONDENSATE DRAINS & INDIRECT WASTE (ABOVEGROUND).

1) DMV MROUGHT COPPER ANSI B-16-29 (CONDENSATE INSIDE BUILDING)

2) DMV, WROUGHT COPPER, ANSI B-16.29 (WATER HEATER T&P, INDIRECT WASTE FROM DISHWASHER/SINKS).

4) SIZE AND INSTALLATION OF PIPE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S

F. REFRIGERANT 1) ASTM B 280, TYPE ACR, HARD-DRAWN STRAIGHT LENGTHS, AND SOFT-ANNEALED COILS, SEAMLESS

SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 74.

2) WROUGHT COPPER, ANSI B16.22, STREAMLINED PATTERN, FITTINGS. BRAZED JOINTS, AMS A 5.8, CLASSIFICATION BAG-1 (SILVER). 3) TUBING SHALL BE FACTORY CLEANED, READY FOR INSTALLATION, AND HAVE ENDS CAPPED TO PROTECT CLEANLINESS OF PIPE INTERIORS PRIOR TO SHIPPING

G. NATURAL GAS.

RECOMMENDATIONS.

1) BLACK STEEL PIPE, SCHEDULE 40, ASTM A53.

c) PIPE 2-1/2" AND LARGER, WELDED.

a) PIPE 3" AND SMALLER; 150 LB. MALLEABLE IRON, THREADED FITTINGS. b) PIPE 4" AND SMALLER; VIEGA MEGAPRESS G FOR WATER AND GAS. CSA LC4, TSSA/ASME B31 FOR USE WITH ASTM A53 SCHEDULE 40 BLACK IRON PIPE.

d) PLUG VALVE: ROCKWELL NORDSTROM FIGURE NO. 142 OR 143. e) BALL VALVE: JOMAR T-100NE. APPROVALS- UL842, FM, CSA, NSF 61-8, MSS SP-110

SAFING AND CAULK AT EACH END WITH FIRE RESISTANT SEALANT

H. ALL PIPE HANGERS AND SUPPORTS SHALL BE STANDARD PRODUCTS OF GRINNELL, FEE AND MASON, OR ELCEN. HANGER SPACING SHALL BE IN ACCORDANCE WITH MSS-SP-69.

1) PROVIDE, SET, AND PROPERLY LOCATE PIPE SLEEVES AS REQUIRED FOR THIS WORK. ALL SLEEVES SHALL BE OF SUFFICIENT SIZE TO PERMIT PIPE MOVEMENT DUE TO EXPANSION AND CONTRACTION

AND TO ACCOMMODATE PIPE INSULATION. 2) INTERIOR PARTITIONS: 16 GAGE GALVANIZED STEEL, PACK BETWEEN PIPE AND SLEEVE WITH FIRE

3) ROOF: PROSET OR EQUAL, MANUFACTURED PVC SCHEDULE 40 PIPE SLEEVE WITH WATERPROOF SEAL. COORDINATE WITH ROOFING CONTRACTOR AND FLASH AS REQUIRED TO MAINTAIN ROOF WARRANTY

4) PROTECTION AGAINST CONTACT: METALLIC PIPING, EXCEPT FOR CAST IRON, DUCTILE IRON AND GALVANIZED STEEL SHALL NOT BE PLACED IN DIRECT CONTACT WITH STEEL FRAMING MEMBERS, CONCRETE, OR CINDER WALLS AND FLOORS OR OTHER MASONRY. METALLIC PIPING SHALL NOT BE PLACED IN DIRECT CONTACT WITH CORROSIVE SOIL. SHEATHING USED TO PREVENT DIRECT CONTACT SHALL HAVE A THICKNESS OF GREATER THAN .008: AND THE SHEATHING SHALL BE MADE OF PLASTIC. ANY PIPE THAT PASSES THROUGH A FOUNDATION WALL OR FOOTING SHALL BE PROVIDED WITH A RELIEVING ARCH, OR A PIPE SLEEVE SHALL BE BUILT INTO THE FOUNDATION WALL. THE SLEEVE

SHALL BE TWO SIZES GREATER THAN THE PIPE PASSING THOUGH THE WALL OR FOOTING. 5) PLUMBING VENTS: FLASH ROOF VENT INTO ROOFING SYSTEM AS REQUIRED BY THE ROOFING CONTRACTOR TO MAINTAIN EXISTING ROOF WARRANTY. ALL PLUMBING VENT TERMINALS SHALL

TERMINATE A MINIMUM OF 12" ABOVE ROOF OR EQUAL TO HEIGHT OF PARAPET, WHICHEVER IS GREATER.

8. INSULATION AND DUCT LINING:

A. ALL INSULATIONS AND ACCESSORIES SHALL HAVE A FIRE HAZARD CLASSIFICATION WITH A FLAME SPREAD RATING OF NOT OVER 25, A FUEL CONTRIBUTION RATING OF NOT OVER 50, AND A SMOKE DEVELOPED RATING OF NOT OVER 50, IN ACCORDANCE WITH NFPA.

J. PROVIDE CHROME PLATED ESCUTCHEONS ON ALL PIPE ENTERING FINISHED AREAS.

B. PIPE INSULATION - ABOVE GRADE:

1) THE PIPING INSULATION USED SHALL HAVE A THERMAL CONDUCTIVITY OF 0.27 Btu PER in/hr*5qft*F° OR LESS.

3/4" FOR PIPING UP TO 1-1/4" \$\Phi\$, \$\pi\$ 1" FOR PIPING 1-1/2" \$\Phi\$ AND LARGER

2) FIBERGLASS INSULATION WITH FACTORY APPLIED VAPOR BARRIER, ASJ JACKET, FACTORY APPLIED PRESSURE SEALING LONGITUDE LAP JOINT, NO STAPLES, ZESTON PREMOLDED PVG FITTING COVERS. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

3) FLEXIBLE CLOSED CELL ELASTOMERIC THERMAL INSULATION, UNSLIT OR PRESLIT WITH PRESSURE BENSITIVE ADHESIVE SYSTEM FOR CLOSURE AND VAPOR SEALING, EQUAL TO ARMSTRONG AP ARMAFLEX OR ARMAFLEX 2000.

4) FOR NON CIRCULATING SYSTEMS, THE FIRST & FEET OF INLET AND OUTLET PIPING BETWEEN THE TANK AND THE HEAT TRAP (INCLUDING THE HEAT TRAP) MUST BE INSULATED

5) INSULATION SCHEDULE a) DOMESTIC COLD WATER

b) DOMESTIC HOT WATER c) REFRIGERANT SUCTION

a) DUCT LINING SCHEDULE

C. DUCTWORK: ACOUSTICAL INSULATION.

1) DUCT LINING: 2 LB/CF, THICKNESS AS SCHEDULED, AIR STREAM SIDE COATED, INSTALL PER SMACNA STANDARDS.

(1) RECTANGULAR SUPPLY DUCT 1/2" : THROUGHOUT THE FIRST 10 FEET OF DUCT. (2) RETURN AIR DUCT 1/2" : THROUGHOUT THE FIRST 10 FEET OF DUCT.

D. DUCTWORK: THERMAL INSULATION.

1) DUCT COVERING: 3/4 LB/CF, FIBERGLASS BLANKET WITH FACTORY APPLIED VAPOR BARRIER AND FACING, THICKNESS AS SCHEDULED, INSTALLATION IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

a) DUCT COVERING SCHEDULE: MINIMUM R-6 (1) ROUND SUPPLY DUCT (2) RECTANGULAR SUPPLY DUCT (3) RETURN AIR DUCT

ASTM A 525; AND MILL PHOSPHATIZED FOR EXPOSED LOCATIONS

(4) OUTDOOR AIR 9. DUCTWORK

A. ALL DUCTWORK, UNLESS OTHERWISE INDICATED, SHALL BE FABRICATED FROM GALVANIZED SHEET STEEL COMPLYING WITH ASTM A 527, LOCKFORMING QUALITY, WITH G 60 ZINC COATING IN ACCORDANCE WITH

B. DUCTWORK, METAL GAUGES, REINFORCING, ETC. SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS," LATEST EDITION FOR A 2 INCH WATER GAUGE STATIC

C. ALL FITTINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION Γ STANDARDS," LATEST EDITION.

D. SEAL ALL CONCEALED DUCTWORK JOINTS WITH NON-HARDENING, NON-MIGRATING MASTIC SEALANT, AS RECOMMENDED FOR SEALING SEAMS AND JOINTS IN DUCTWORK. OIL BASE CAULKING AND GLAZING COMPOUNDS SHALL NOT BE ACCEPTABLE. DUCTS SHALL BE SEALED TO THE CLASS LEVEL LISTED BELOW.

1) UNCONDITIONED SPACES CLASS B CLASS A CLASS C CLASS B 1) CONDITIONED SPACES (PLENUM) CLASS C CLASS B CLASS B CLASS C SUPPLY < 2" M.C. SUPPLY > 2" M.C. EXHAUST RETURN

E. DUCT SIZES SHOWN ON THE DRAWINGS ARE SHEETMETAL SIZES, ALLOWANCE FOR DUCT LINER HAS BEEN MADE WHERE APPLICABLE.

F. ALUMINUM DUCTS WHERE INDICATED: ANSI/ASTM B209; ALUMINUM SHEET, ALLOY 3003-H14. ALUMINUM CONNECTORS AND BAR STOCK: ALLOY 6061-T6 OR OF EQUIVALENT STRENGTH. 10. FLEXIBLE DUCT:

A. ATCO #086 (R-6), OR EQUAL.

B. FACTORY APPLIED INSULATION AND VAPOR BARRIER, 1-1/2" THICK.

C. MAXIMUM LENGTH OF 5'-O".

11. CONTROL WIRING:

A. ELECTRICAL WIRING AND WIRING CONNECTIONS REQUIRED FOR THE INSTALLATION OF THE TEMPERATURE CONTROL SYSTEM, SHALL BE PROVIDED BY THIS CONTRACTOR, UNLESS SPECIFICALLY SHOWN ON THE ELECTRICAL DRAWINGS OR SPECIFICATIONS.

B. INSTALL CONTROL WIRING, WITHOUT SPLICES BETWEEN TERMINAL POINTS, COLOR CODED. INSTALL IN NEAT MORKMANLIKE MANNER, SECURELY FASTENED. INSTALL IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND THE ELECTRICAL SPECIFICATIONS.

1) INSTALL CIRCUITS OVER 25 VOLT WITH COLOR CODED NUMBER 12 WIRE.

2) INSTALL CIRCUITS UNDER 25 VOLT WITH COLOR CODED NUMBER 18 WIRE WITH 0.031 INCH HIGH TEMPERATURE 105 DEGREES F PLASTIC INSULATION ON EACH CONDUCTOR AND PLASTIC SHEATH OVER

3) INSTALL ELECTRONIC CIRCUITS WITH COLOR CODED NUMBER 22 WIRE WITH 0.023 INCH POLYETHYLENE INSULATION ON EACH CONDUCTOR WITH PLASTIC JACKETED COPPER SHIELD OVER

4) INSTALL LOW VOLTAGE CIRCUITS, LOCATED IN CONCRETE SLABS AND MASONRY WALLS, OR EXPOSED IN OCCUPIED AREAS, IN ELECTRIC CONDUIT

5) ALL WIRING IN AREAS USED AS AIR PLENUMS SHALL BE IN ELECTRIC CONDUIT EXCEPT THAT LOW VOLTAGE WIRING MAY BE TEFLON COATED, ALUMINUM SHEATHED CABLE OR OTHER WIRE SPECIFICALLY APPROVED FOR INSTALLATION IN AIR PLENUMS, WHERE ACCEPTABLE BY LOCAL

6) ALL WIRING IN AREAS NOT USED FOR AIR MOVEMENT SHALL BE IN ELECTRIC METALLIC TUBING EXCEPT LOW VOLTAGE WIRING MAY BE IN APPROVED SIGNAL CABLE WHERE ACCEPTED BY LOCAL

C. THERMOSTATIC CONTROLS TO HAVE A 5°F DEADBAND AND SETPOINT OVERLAP RESTRICTIONS. 1) TEMPERATURE CONTROLS SETBACK TO BE 55°F (HEAT) AND 85° (COOL), 2-HOUR OCCUPANT OVERRIDE,

D. THERMOSTATIC CONTROLS TO HAVE A 5°F DEADBAND AND SETPOINT OVERLAP RESTRICTIONS.

A. DEMOLITION: DISCONNECT, DEMOLISH, AND REMOVE ABANDONED MECHANICAL MATERIALS AND EQUIPMENT NDICATED TO BE REMOVED AND NOT INDICATED TO BE SALVAGED OR REMAIN.

B. EQUIPMENT TO BE SALVAGED:

10-HOUR BACKUP.

1) DISCONNECT AND REMOVE, EXISTING MECHANICAL EQUIPMENT INDICATED TO BE REMOVED AND SALVAGED. DELIVER EQUIPMENT TO THE LOCATION DESIGNATED BY THE OWNER FOR STORAGE

2) ALL MATERIALS AND EQUIPMENT DESIGNATED TO BE REUSED OR RELOCATED SHALL BE CAREFULLY REMOVED, AND STORED UNTIL NEEDED FOR REMODELING WORK. ALL ITEMS SHALL BE RESTORED TO "LIKE NEW!" CONDITION WITH RUST OR CORROSION REMOVED. SURFACE PAINT TOUCHED UP OR REPAINTED AS REQUIRED TO MATCH NEW CONSTRUCTION, AND THOROUGHLY CLEANED AND INSPECTED ANY ITEMS WHICH BECOME DAMAGED BEYOND REPAIR AS A RESULT OF CONSTRUCTION OR DEMOLITION ACTIVITY SHALL BE REPLACED WITH NEW MATERIAL EQUIVALENT IN EVERY RESPECT.

C. DISPOSAL AND CLEANUP: REMOVE FROM THE SITE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS AND EQUIPMENT NOT INDICATED TO BE SALVAGE

D. PROTECT ADJACENT MATERIALS INDICATED TO REMAIN. INSTALL AND MAINTAIN DUST AND NOISE BARRIERS TO KEEP DIRT, DUST, AND NOISE FROM BEING TRANSMITTED TO ADJACENT AREAS. REMOVE PROTECTION AND BARRIERS AFTER REMODELING OPERATIONS ARE COMPLETE.

E. LOCATE, IDENTIFY, AND PROTECT MECHANICAL SERVICES PASSING THROUGH REMODELING AREA AND SERVING OTHER AREAS OUTSIDE THE REMODELING LIMITS. MAINTAIN SERVICES TO AREAS OUTSIDE REMODELING LIMITS. WHERE MECHANICAL SERVICES ARE LOCATED IN A WALL, ETC. TO BE DEMOLISHED, REROUTE PIPING TO NEW OR EXISTING CONSTRUCTION TO MAINTAIN CONTINUITY OF THE SYSTEM. WHEN SERVICES MUST BE INTERRUPTED, INSTALL TEMPORARY SERVICES FOR AFFECTED AREAS.

F. REMOVE ALL PIPING TO BE DEMOLISHED BACK TO PIPE MAIN OR EDGE OF PROJECT AREA, AND CAP

G. PIPING AND DUCTS EMBEDDED IN FLOORS, WALLS, AND CEILINGS MAY REMAIN IF SUCH MATERIALS DO NOT INTERFERE WITH NEW INSTALLATIONS. PIPING AND DUCTS TO REMAIN SHALL BE APPROVED BY THE ARCHITECT. REMOVE MATERIALS ABOVE ACCESSIBLE CEILINGS. DRAIN AND CAP PIPING AND DUCTS ALLOMED TO REMAIN ABOVE CEILING OR BELOW FLOOR, CONCEALED FROM VIEW, EXCEPT AS OTHERWISE NOTED. PATCH FLOOR TO MATCH EXISTING.

H. PIPE AND DUCT SHALL BE CONCEALED WITH NEW OR EXISTING CONSTRUCTION WHENEVER POSSIBLE, UNLESS INDICATED OTHERWISE.

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW LEE'S SUMMIT, MISSOUR

ARCHITECTURE

IARCHITECT

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Tenant Finishes

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6. 12. 20 Review Set Review Set 7. 19. 20 10. 20. 20

BC PROJECT #: 20740

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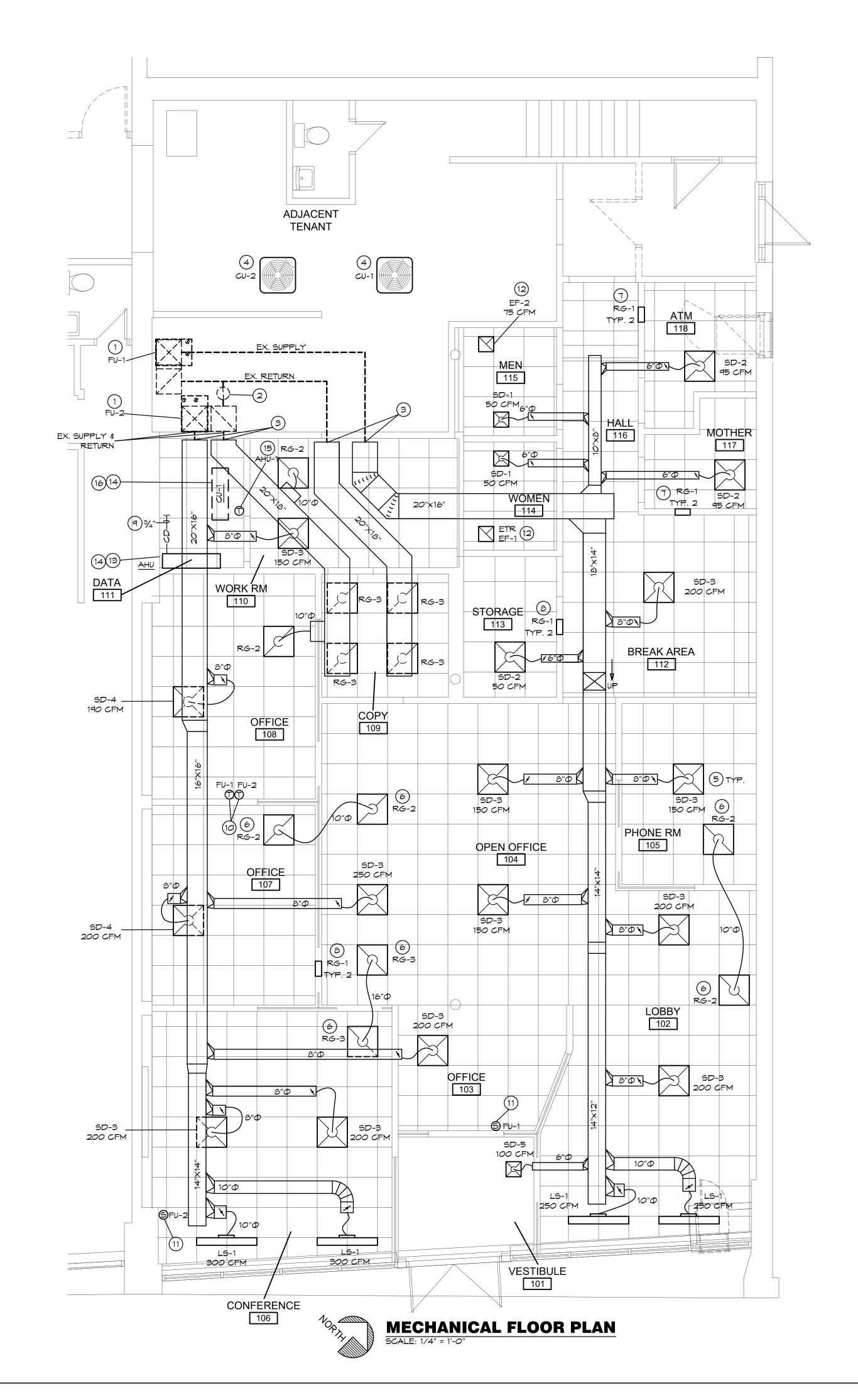
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MECHANICAL GENERAL NOTES:

- 1. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACES AVAILABLE, AND WITHOUT INTERFERENCES.
- 2. THIS CONTRACTOR SHALL PERFORM ALL WORK INDICATED AND/OR AS REQUIRED FOR THE PROPER INSTALLATION AND OPERATION OF THE MECHANICAL SYSTEMS.
- 3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF DIFFUSERS.
- 4. INSTALL ALL DUCT, PIPE, ETC. AS HIGH AS POSSIBLE.
- 5. DUCT SIZES SHOWN ARE ACTUAL SHEET METAL SIZES AND INCLUDE AN ALLOWANCE FOR DUCT LINER WHERE APPLICABLE.
- 6. PROVIDE FLEXIBLE CONNECTION BETWEEN DUCTWORK AND ROOFTOP UNITS, EXHAUST FANS, AND OTHER MOTORIZED EQUIPMENT.
- 7. NO DUCT SHALL BE ROUTED OVER THE TOP OF ELECTRICAL PANELS.
- 8. ALL MECHANICAL SYSTEMS SHALL BE BALANCED BY A CERTIFIED BALANCING CONTRACTOR. REFER TO SPECIFICATIONS FOR DETAILS.

MECHANICAL PLAN NOTES:

- LOCATION OF GAS FIRED DOWN FLOW FURNACE ON ON SECOND FLOOR BY LANDLORD. SUPPLY AND RETURN DUCTWORK UP TO CONNECTION POINT ON FIRST FLOOR BY LANDLORD.
- ROOF JACK TO PROVIDE OUTDOOR AIR, OUTDOOR AIR DUCT CONNECTED TO RETURN AIR AND BALANCING DAMPER BY LAND LORD. SEE SCHEDULE FOR OUTDOOR AIR REQUIREMENTS. OUTDOOR AIR INTAKE SHALL BE MIN. 10'-0" CLEARANCE FROM ALL EXHAUST, FLUE AND PLUMBING VENT.
- PROVIDE CONCEALED SUPPLY AND RETURN DUCTWORK AND CONNECT TO EXISTING SUPPLY & RETURN DROPS (BY LANDLORD). ROUTE DUCTWORK UP HIGH AND SUPPORT TO THE STRUCTURE. ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS.
- SPLIT SYSTEM CONDENSING UNIT ON ROOF BY LANDLORD. LOCATION OF CONDENSING UNIT SHOWN FOR INFORMATION PURPOSE ONLY. VERIFY EXACT LOCATION IN FIELD.
- PROVIDE NEW CEILING MOUNTED SUPPLY DIFFUSER AS DETAILED.
- PROVIDE DUCTED RETURN TRANSFER GRILLE.
- PROVIDE HIGH LOW RETURN GRILLES ENCLOSED ROOM SIDE GRILLE LOCATED AT 12" AFF OPEN AREA SIDE LOCATED AT 8' AFF.
- PROVIDE RETURN TRANSFER GRILLE ON EACH SIDE OF WALL ABOVE DOOR.
- ROUTE DISCHARGE TUBE UP TO CONDENSATE DRAIN IN FURNACE ROOM ON FLOOR ABOVE.
- COORDINATE WITH LANDLORD TO PROVIDE PROGRAMMABLE THERMOSTAT WITH REMOTE SENSOR CAPABILITY PROVIDE REMOTE SENSOPS REMOTE SENSOR CAPABILITY. PROVIDE REMOTE SENSORS.
- LOCATION OF REMOTE TEMPERATURE SENSOR. VERIFY EXACT LOCATION WITH OWNER AND ARCH.
- EXHAUST FAN IN RESTROOM EXISTING TO REMAIN.
- SUPPORT UNIT FROM WALL AS REQUIRED BY THE MANUFACTURER. MOUNT AS HIGH AS POSSIBLE PER MANUFACTURER'S REQUIREMENTS.
- PROVIDE AND INSTALL REFRIGERANT PIPING FOR CONDENSING UNIT & COIL AS REQUIRED BY THE MANUFACTURER.
- INSTALL THERMOSTAT FOR MINI SPLIT SYSTEM UNIT AT LOCATION SHOWN. THERMOSTAT SHALL BE PROGRAMMABLE AND SHALL HAVE CONTROL FOR COOLING. MOUNTING HEIGHT OF THERMOSTAT SHALL BE 48" ABOVE FINISHED
- SUPPORT MINI SPLIT SYSTEM CONDENSING UNIT ON ROOF AS DETAILED.

MECHANICAL SYMBOLS

NEW SUPPLY DIFFUSER NEW RETURN AIR GRILLE EXHAUST GRILLE/FAN TEMPERATURE SENSOR BALANCING DAMPER/LOUVER NEW DUCTMORK

SIZE OF ROUND DUCT

FLEXIBLE CONNECTION TO FAN

SUPPLY AIR S.A.

RETURN AIR EXHAUST AIR

MANUAL VOLUME DAMPER

SPLITTER DAMPER WITH

MOTORIZED CONTROL DAMPER

SUPPLY AIR DUCT UP/DOWN

EXHAUST AIR DUCT UP/DOWN

IN DIRECTION OF FLOW

SCHEDULED MECHANICAL EQUIPMENT EXIST'G DUCT TO REMAIN

EXIST'G DUCT TO BE REMOVED

EXISTING FLEXIBLE DUCTMORK

32"x14"E SIZE OF EXISTING DUCT EXISTING SUPPLY DIFFUSER

THERMOSTAT, MOUNTED AT 48" AFF

SIZE OF RECTANGULAR DUCT

FLEXIBLE DUCTMORK

FLOOR PLAN NOTE DESIGNATION

TRANSITION IN DUCT SIZE

ELBOW WITH TURNING VANES MANUAL VOLUME DAMPER

HORIZONTAL REGULATOR

RETURN AIR DUCT UP/DOWN

CHANGE IN ELEVATION UP (UP) DOWN (DN)

Tenant Finishes

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW

LEE'S SUMMIT, MISSOURI

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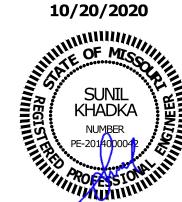
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6. 12. 20 Review Set 7. 13. 20 Review Set 7. 19. 20 10. 20. 20

Mech Plan

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ENGINEERS

INCORPORATED

	CONDENSING UNIT SCHEDULE (FOR REFERENCE ONLY)											
			COOLING				ELECTRICAL					
MARK	MFGR	MODEL NO.	TOTAL BTUH	SENS. BTUH	AMB.	EVAP. EAT DB/NB	VOLT/Ф/HZ	MCA (AMPS)	MOCP (AMPS)	EER /SEER	NOTES	
CU-1	GOODMAN	G5X160601	54,000	43,070	96.7	80/67	208-230/1/60	29.6	50	-/16	1	
CU-2	†	†	†	•	ţ	\	V	†	†	ţ	•	

NOTES: 1. CONDENSING UNIT PROVIDED BY LANDLORD. INFORMATION PROVIDED FOR REFERENCE ONLY.

	FURNACE SCHEDULE (REFERENCE ONLY)											
	MFGR	MODEL NO.	OFM	EXT. STATIC P. IN. MG.	HEATIN	IG (GAS)	ELECTRICA	ELECTRICAL		OUTSIDE		
MARK					BTUH INPUT	BTUH OUTPUT		MCA (AMPS)	MCOP (AMPS)	AIR (CFM)	NOTES	
FU-1	GOODMAN	GCES801205DN	1990	0.7	120,000	96,200	120/1/60	15.3	20	200	1,2,3,4,5	
FU-2	†	+	†	†	V	\	+	+	+	\	•	

NOTES: 1. FURNACE UNIT PROVIDED BY LANDLORD. INFORMATION PROVIDED FOR REFERENCE ONLY.

	MINI SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE											
				EVAP.	NOMINAL		ELECTR	RICAL	CU AHU SEE HZ (LBS)	AHU	GEED	
MARK	MFGR	INDOOR UNIT MODEL NO.	CONDENSING UNIT MODEL NO.	CFM	TONS	MCA (A)	MOCP (A)	VOLT/Ф/HZ		7	NOTES	
AHU-1/CU-1	MITSUBISHI	PKA-A18HA7	PUY-A18NKA7	425	1.5	11	20	230/1/60	99	29	18.5	1, 2

NOTES: 1. PROVIDE WIRED THERMOSTAT CONTROL, REFRIGERANT LINESETS, ELECTRICAL WHIPS. COORDINATE UNIT MOCP WITH ELECTRICAL CONTRACTOR.

2. PROVIDE MAXI ORANGE CONDENSATE PUMP.

	DIFFUSER SCHEDULE											
MARK	MF	GR	MODEL	NECK SIZE	FACE SIZE	FIN	ISH	NOTES				
SD-1	TIT	US	TM5/3	6"Ф	12"×12"	MH	ITE	1				
SD-2			TM5/3	†	24"×24"			-				
SD-3			†	8"Ф	†			-				
SD-4			T35Q-4	6"Ф	24"×24"			-				
SD-5			TM5/1	†	12"×12"			2				
RG-1			350RL	12"X10"	-			-				
RG-2	·	·	PAR/3	10"Ф	24"X24"			-				
RG-3	1		†	16"Ф	†			-				

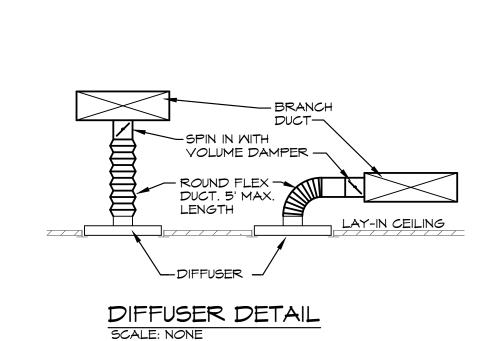
NOTES: 1. PROVIDE TRM KIT.

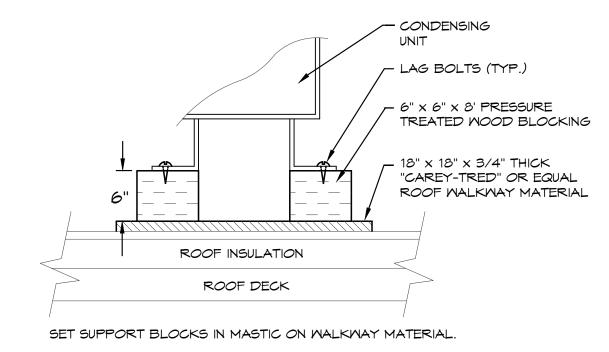
2. PROVIDE WITH OPPOSED BLADE DAMPER.

	LINEAR DIFFUSER SCHEDULE											
MARK	MFGR	MODEL	# SLOTS	SLOT WIDTH	LENGTH	FINISH	NOTES					
LS-1	TITUS	FTI-20	1	2"	48"	MHITE	M/ FLANGE					

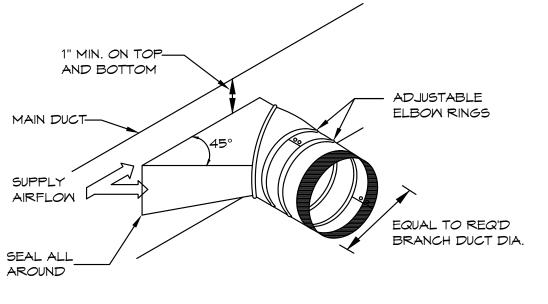
NOTES: 1. PROVIDE INSULATED PLENUM BOX FOR SUPPLY DIFFUSER.

		OUTDOO!	R AIR CALCU	LATIO	NS				
UNIT	Area (sqft)	OCCUPANCY CLASSIFICATION	Occupant Density #/1000 sqft	People outdoor airflow rate in breathing zone, (Rp) cfm/person	Area outdoor airflow rate in breathing zone, (Ra) cfm/sqft	Exhaust airflow rate cfm/sqft	Breathing zone outdoor airflow (Vbz)	Zone air distributi on effective ness (Ez)	Zone outdoor airflow (cfm)
	300	102 LOBBY	30	5	0.06		63	0.8	79
	325	104 OPEN OFFICE	5	5	0.06		28	0.8	35
	108	105 PHONE ROOM	4	5	0.06		9	0.8	11
 FU-1	155	112 BREAK ROOM	25	5	0.06		29	0.8	36
	58	113 STORAGE	0	0	0.06		3	1.8	2
	325 108 155 58 78 45 60 65 90 258	116 HALL	0	0	0.06		5	0.8	6
	45	117 MOTHER	10	5	0.06		5	0.8 0.8 0.8 1.8 0.8 0.8 0.8 Total 0.8 0.8	6
	60	118 TELLER	5	5	0.06		5		6
								Total	180
	65	101 VESTIBULE	10	5	0.06		7	0.8	9
	90	103 OFFICE	5	5	0.06		8	0.8	10
	258	106 CONFERENCE ROOM	50	5	0.06		80	0.8	100
FU-2	145	107 OFFICE	5	5	0.06		aust Flow outdoor airflow (Vbz) distriction or airflow (Vbz) 63 0.8 28 0.8 9 0.8 5 0	0.8	15
	170	108 OFFICE	5	5	0.06		14	0.8	18
	68	109 COPY	4	5	0.06		5	distributi	7
	118	110 MORK ROOM	5	5	0.06		10		13
	48	111 DATA	4	5	0.06		4	0.8	5
								Total	176

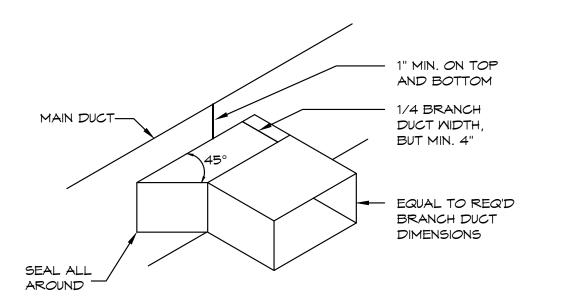




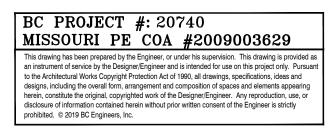
CONDENSING UNIT SUPPORT DETAIL
SCALE: NONE



BRANCH DUCT TAKEOFF DETAIL
SCALE: NONE



BRANCH DUCT TAKEOFF DETAIL
SCALE: NONE







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 Review Set
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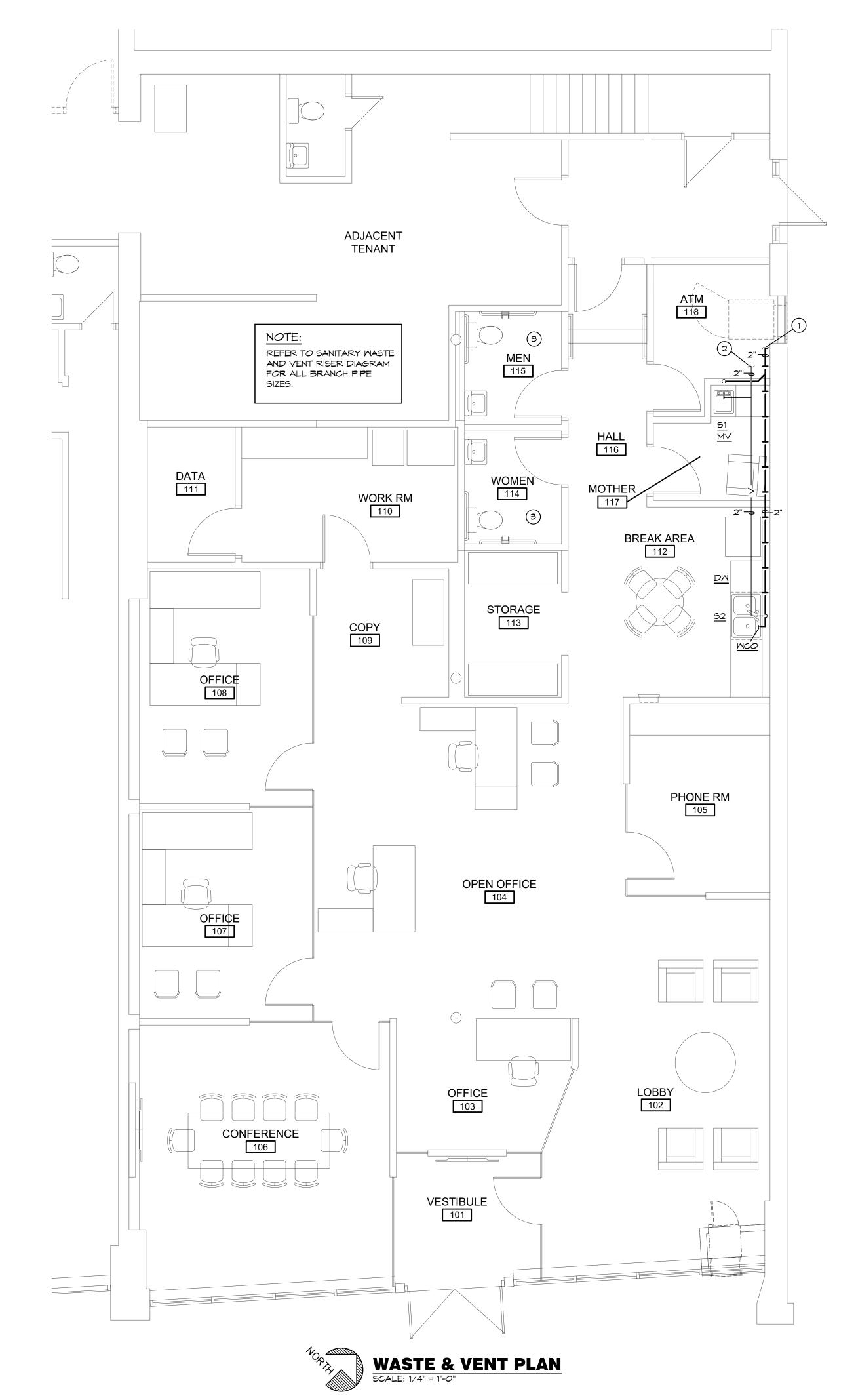
 Permit Set
 7. 19. 20

 Revision 1
 10. 20. 20

Review Set

Mech Schedule

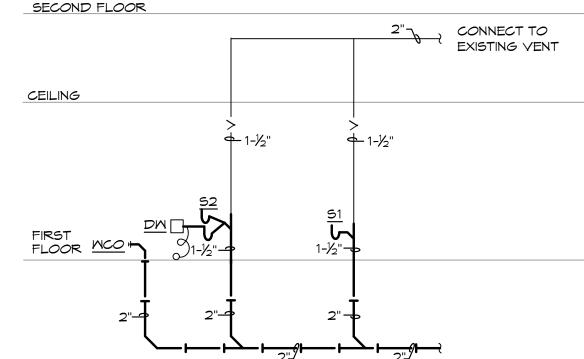
M20



PLUMBING DRAINAGE CALCULATIONS QUANTITY FU TOTAL FU MATER CLOSET (EXISTING) LAVATORY (EXISTING) 1 COMP. SINK 2 COMP. SINK 1 2 2 FLOOR DRAIN (EXISTING) DISH WASHER TOTAL 20 FU VENT MAINS - 2" REQUIRED MASTE MAIN - 3" REQUIRED

PLUMBING FIXTURE BRANCH PIPING SCHEDULE											
FIXTURE	MASTE	VENT	CM	HM							
MATER CLOSET (TANK TYPE)	3"	2"	1/2"								
LAVATORY	1-1/4"	1-1/4"	1/2"	1/2"							
SINK	1-1/2"	1-1/2"	1/2"	1/2"							
FLOOR DRAIN	2"	2"									
ICE BOX	-	-	1/2"	-							

NOTE: INDIVIDUAL VENTS FOR FIXTURES ON PLANS AND RISER DIAGRAMS HAVE BEEN INCREASED WHERE HORIZONTAL VENT LENGTH IS IN EXCESS OF THE MAXIMUM DISTANCE INDICATED BY THE CODE.



MASTE & VENT RISER BREAK AREA 112 & MOTHER 117

EXISTING SANITARY

- 2. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE
- 3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING
- PIPING. PATCH FLOOR TO MATCH EXISTING.
- 5. NO PIPING SHALL BE ROUTED OVER THE TOP OF ELECTRICAL PANELS.
- 6. CONTRACTOR TO TEST WATER PRESSURE ON SITE AND PROVIDE PRESSURE REDUCING VALVE ON MATER SERVICE IF PRESSURE IS OVER 80 PSI.

PLUMBING PLAN NOTES:

- CONNECT NEW SANITARY LINE TO EXISTING SANITARY LINE. PLUMBING CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF EXISTING SANITARY LINE IN FIELD PRIOR TO INSTALLATION OF NEW PIPING.
- PROVIDE VENT LINE TO EACH OF THE PLUMBING FIXTURE AND CONNECT TO EXISTING VENT LINE.
- ALL SANITARY WASTE & VENT LINE AND PLUMBING FIXTURES IN RESTROOM EXISTING TO REMAIN, PROVIDED BY LANDLORD. NO NEW WORK IN THIS AREA.

PLUMBING FIXTURE SCHEDULE:

- SINK, ONE COMPARTMENT: ELKAY, #LRAD-2222, 19"x16"x 6-1/2" DEEP BOWL,21-3/8"x 21-3/8" CUT-OUT, ADA COMPLIANT, SINGLE COMPARTMENT, SELF-RIMMING STAINLESS STEEL SINK MITH SATIN FINISH AND SOUND DAMPENING UNDERCOATING, ELKAY #LKB-721C BATTERY OPERATED TOUCHLESS FAUCET, CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT, CHROME PLATED ANGLE STOPS AND RISERS. SINK CUT-OUT IN CASEMORK SHALL BE BY CASEMORK CONTRACTOR.
- 32-3/8"x21-3/8" CUT-OUT, SELF-RIMMING STAINLESS STEEL SINK WITH SATIN FINISH AND SOUND DAMPENING UNDERCOATING, CHICAGO FAUCET#1100 FAUCET, SMING SPOUT, AERATOR, WING HANDLES, #LK-35 BASKET STRAINER WITH 1-1/2" TAILPIECE, CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT, CHROME PLATED ANGLE STOPS AND RISERS, IN-SINK-ERATOR#BADGER 5 DISPOSAL, 1/2 HP, 120 VOLT. SINK CUT-OUT IN CASEMORK SHALL BE BY CASEMORK CONTRACTOR.
- FREE BRONZE BODY, LOCKED TEMPERATURE ADJUSTMENT CAP (VANDAL RESISTANT), COPPER ENCAPSULATED THERMOSTAT ASSEMBLY WITH BRASS SHUTTLE, STAINLESSSTEEL SPRINGS, INTEGRAL CHECK VALVES ON HOT AND COLD INLETS. (SET TO 110°F). ASSE 1070 LISTED.
- DRAIN PIPING UNDER SINK AS REQUIRED. PROVIDE HOSE, PIPING AND SHUT-OFF VALVES AS REQUIRED TO MAKE CONNECTIONS.
- 1/4-TURN SHUT OFF VALVE.
- HAMMER ARRESTOR, SIZED AS PER MANUFACTURER'S RECOMMENDATIONS.
- FCO/MCO MALL: JR SMITH #4472, OR EQUAL, 24" ABOVE THE FLOOR.

PLUMBING GENERAL NOTES:

- 1. INSTALL ALL PIPE, ETC. AS HIGH AS POSSIBLE.
- CONFINES OF THE SPACES AVAILABLE, AND WITHOUT INTERFERENCES.
- HEIGHTS OF FIXTURES.
- 4. SAWCUT EXISTING FLOOR AS REQUIRED FOR INSTALLATION OF UNDERFLOOR

- SINK, DOUBLE COMPARTMENT: ELKAY, #LR-3322, TWO 13-1/2"x16"x8" DEEP BOWL,
- MIXING VALVE: WATTS, #LFUSG-B, THERMOSTATIC CONTROLLED MIXING VALVE, LEAD
- DISHMASHER: PROVIDED BY OMNER, CONTRACTOR INSTALLED, CONNECT TO HM AND
- ICE BOX: SIOUX CHIEF #696-1000, ICE BOX WITH 1/2" INLET AND CONNECTION AND
- WATER HAMMER ARRESTOR: JR SMITH 'HYDROTROL' #5000 LEAD-FREE WATER

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AS NOTED ON PLANS REVIEW

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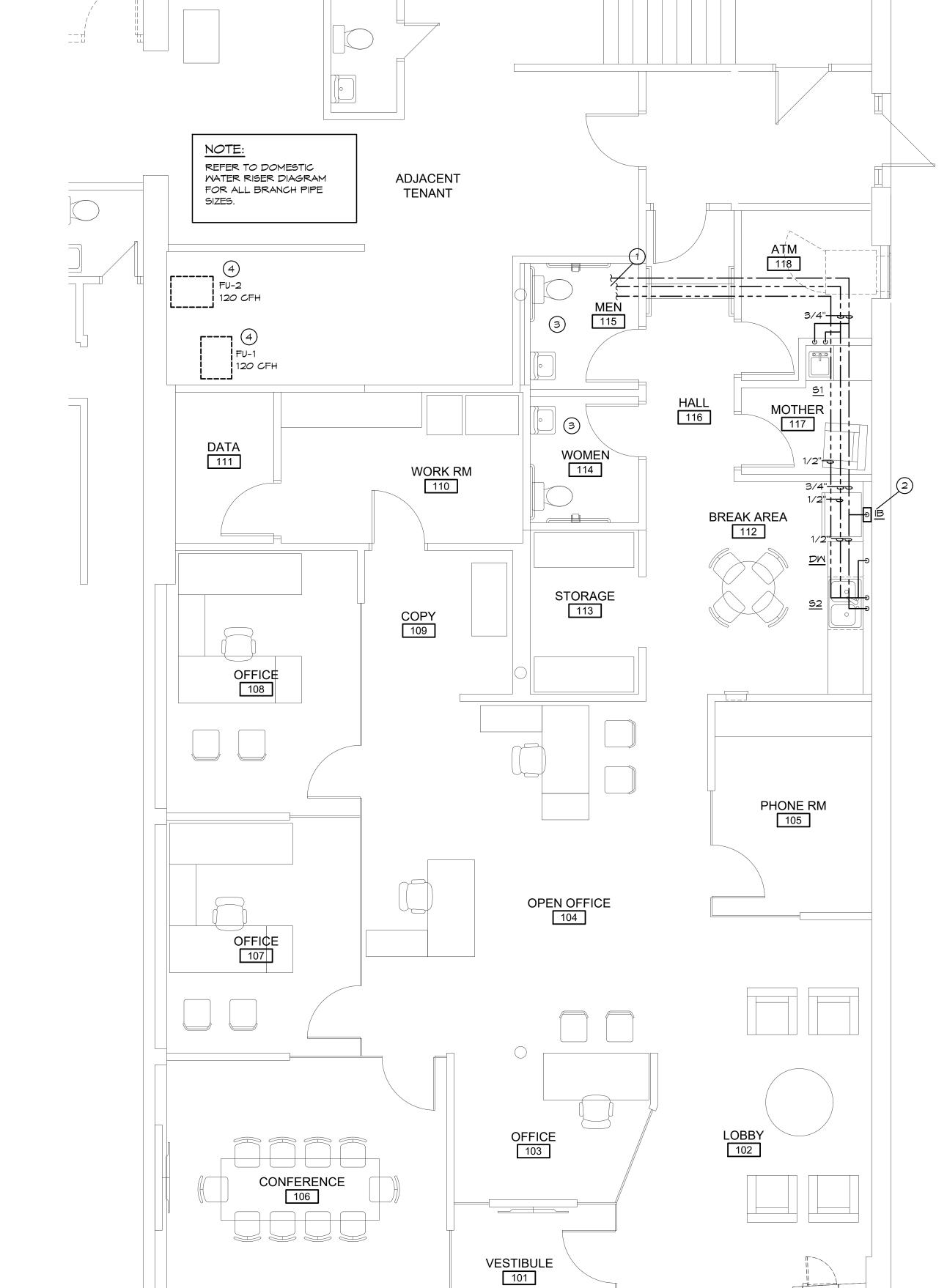
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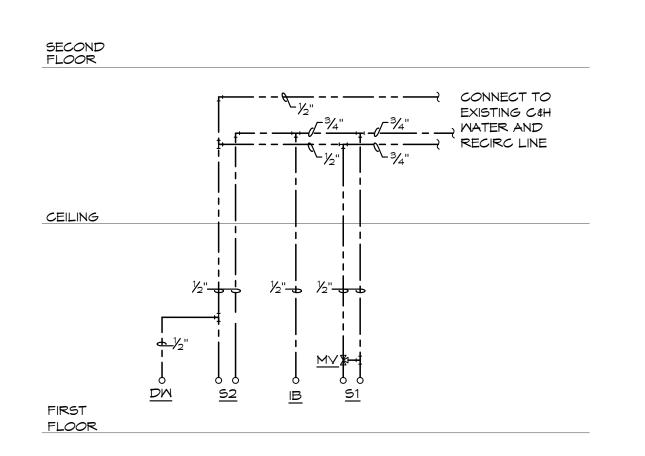
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> Waste & Vent



DOMESTIC WATER & NATURAL GAS PLAN

			CM		——— HM		COMBINED
FIXTURE	QUANTITY	CM FU	TOTAL FU	HM FU		COMBINED FU	TOTAL FU
MATER CLOSET (EXIST	NG) 2	5	10	0	0	5	10
LAVATORY (EXISTING)	2	1.5	3	1.5	3	2	4
1 COMP. SINK	1	2.25	2.25	2.25	2.25	3	3
2 COMP. SINK	1	2.25	2.25	2.25	2.25	3	3
DISH WASHER	1	0	0	1.4	1.4	1.4	1.4
ICE MAKER BOX	1	0.25	0.25	0	0	0.25	0.25
			17.75 FU		8.9 FU		21.65 FU
		НОТ	MATER MAIN -	- 3/4"			
		COL	D WATER MAIN	۱ – ۱"			



DOMESTIC WATER RISER

BREAK AREA 112 & MOTHER 117

PLUMBING PLAN NOTES:

- ONNECT HIC WATER AND RECIRC TO EXISTING HIC WATER AND RECIRC AS REQUIRED. PROVIDE ISOLATION VALVE IN HOT WATER LINE DOWN STREAM OF CONNECTION POINT. VERIFY EXACT LOCATION AND SIZE OF EXISTING WATER LINE PRIOR TO INSTALLATION OF NEW PIPING. WATER HEATER LOCATED IN ADJACENT TENANT SPACE.
- 2 PROVIDE ICE MAKER BOX WITH VALVE FOR CONNECTION TO REFRIGERATOR BY OTHERS.
- ALL DOMESTIC HOT \$ COLD WATER LINE AND PLUMBING FIXTURES IN RESTROOM EXISTING TO REMAIN, PROVIDED BY LANDLORD. NO NEW WORK IN THIS AREA.
- GAS LINE TO FURNACES LOCATED ON SECOND FLOOR PROVIDED BY LANDLORD.

PLUMBING SYMBOLS

PLUMBING	PLUMBING SYMBOLS						
	SOIL AND WASTE PIPING BELOW FLOOR/GRADE						
	SOIL AND WASTE PIPING ABOVE FLOOR/GRADE						
	SANITARY VENT PIPING ABOVE GRADE						
$ \checkmark$	SANITARY VENT PIPING BELOW GRADE						
	DOMESTIC COLD WATER PIPING						
	DOMESTIC HOT WATER PIPING						
	DOMESTIC HOT WATER RECIRCULATION PIPING						
<u>—</u>	GAS PIPING						
——D—	EQUIPMENT DRAIN LINE						
	PIPING TURNING DOWN						
	PIPING TURNING UP						
	TEE TOP CONNECTION						
 	UNION						
->1000>-1	BACKFLOW PREVENTER						
MCO +	WALL CLEAN OUT						
 + 	VALVE						
	CONNECT TO EXISTING						
	REFRIGERANT PIPING						
12 =	CHECK VALVE						
上	THERMOMETER						
P 土	PRESSURE GUAGE						
	TEMPERATURE AND PRESSURE RELIEF VALVE						
<u> </u>	PETE'S PLUG						
×	Y STRAINER						

VACUUM RELIEF VALVE

BC PROJECT #: 20740
MISSOURI PE COA #2009003629

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Issue	Date
Review Set	6. 12. 20
Review Set	7. 13. 20
Permit Set	7. 19. 20
Revision 1	10. 20. 20

Dom. Water & Nat. Gas

P12

D. ALL TESTING REQUIRED BY AUTHORITIES SHALL BE CONSIDERED PART OF THIS WORK.

E. DURING CONSTRUCTION, ALL FIXTURES, EQUIPMENT, CONDUIT, ETC. SHALL BE COVERED, PLUGGED, OR CAPPED AS REQUIRED TO KEEP CLEAN AND UNDAMAGED. ALL DAMAGED ITEMS SHALL BE RESTORED TO ORIGINAL CONDITION OR REPLACED. ALL PROTECTIVE COVERING SHALL BE REMOVED BEFORE FINAL

F. PROVIDE ALL NECESSARY CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, AND ROOFS AS NECESSARY. PATCH AROUND ALL OPENINGS SHALL MATCH ADJACENT AREA. COORDINATE ALL ROOFING WORK WITH OWNER OR RESPONSIBLE PARTY, SO THAT THE EXISTING ROOFING WARRANTY

G. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS AGAINST DEFECTS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.

H. CONTRACTOR SHALL PROVIDE ACCESS PANELS WHERE NECESSARY FOR CONCEALED ELECTRIAL

I. CONTRACTOR SHALL PROMPTLY CALL ENGINEERS ATTENTION TO ANY APPARENT CONTRADICTIONS, AMBIGUITIES, ERRORS, DISCREPANCIES, OR OMISSIONS IN THE PLANS OR SPECIFICATIONS.

2. OPERATION AND MAINTENANCE MANUALS:

A. DURING THE COURSE OF CONSTRUCTION, COLLECT AND COMPILE OPERATING INSTRUCTIONS, WIRING DIAGRAMS, CATALOG CUTS, LUBRICATION AND PREVENTIVE MAINTENANCE INSTRUCTIONS, PARTS LISTS, ETC. FOR ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT.

B. ALL LITERATURE AND INSTRUCTIONS SHIPPED WITH THE EQUIPMENT SHALL BE SAVED FOR INCLUSION IN THE OPERATION AND MAINTENANCE MANUALS.

C. ALL LITERATURE LISTED ABOVE AND ALL PAPERS LISTING WARRANTIES, ETC. SHALL BE COLLATED AND LABELED WITH THE PROJECT NAME, ADDRESS, ARCHITECT, ENGINEER, CONTRACTORS, ET

CONTRACTORS, ETC. DOCUMENTS SHALL BE COMPILED AND BOUND IN DIGITAL FILE OR 3 RING BINDER.

3. MANUFACTURERS:

A. MANUFACTURERS, MODEL NUMBERS, ETC. INDICATED OR SCHEDULED ON THE DRAWINGS SHALL BE INTERPRETED AS HAVING ESTABLISHED A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED AS LIMITING COMPETITION. ARTICLES, FIXTURES, ETC. OF EQUAL QUALITY BY MANUFACTURERS SHALL BE ACCEPTABLE, SUBJECT TO STRUCTURAL AND ELECTRICAL CONSTRAINTS OF THE PROJECT DESIGN,

4. TESTING, AND BALANCING:

A. ALL CIRCUITS SHALL BE TESTED FOR CONTINUITY, SHORTS, AND GROUNDS BEFORE CONNECTING TO THE PROPER PHASE AS DESIGNED TO BALANCE THE LOADING BETWEEN PHASES.

B. POWER AND LIGHTING PANELS SHALL BE PROPERLY PHASED TO DISTRIBUTE THE LOAD AND SHALL BE CONNECTED AND ADJUSTED TO OPERATE AS SPECIFIED.

C. ALL MOTORS AND SIMILAR EQUIPMENT SHALL BE CHECKED FOR PROPER PHASE ROTATION AND OPERATION.

5. RACEWAYS:

A. CONDUIT INSIDE THE BUILDING SHALL BE METALLIC TUBING (EMT), BEARING THE UL LABEL, WITH

B. CONDUIT EXPOSED TO THE WEATHER, INSTALLED UNDERGROUND, IN CONCRETE, OR USED FOR SERVICE ENTRANCE SHALL BE STANDARD RIGID CONDUIT (GALVANIZED) WITH THREADED FITTINGS

C. UNDERGROUND CONDUIT MAY BE POLYVINYL CHLORIDE WITH A DEFLECTION TEMPERATURE, UNDER LOAD AT 264 PSI, OF 78 DEGREES C, AND A TENSILE STRENGTH OF 5,200 PSI. JOINTS SHALL BE FLUSH SOLVENT MELDED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. CONDUIT SHALL BE EQUAL TO CARLON POWER AND COMMUNICATIONS DUCT TYPE DB (DIRECT BURIAL). CONDUIT AND FITTINGS SHALL BE PRODUCED BY THE SAME MANUFACTURER.

D. FLEXIBLE METAL CONDUIT SHALL ONLY BE USED FOR CONNECTIONS TO MOTORS, TRANSFORMERS, AND LIGHT FIXTURES. MAXIMUM LENGTH SHALL BE 6'-0".

6. CONDUCTORS:

A. WIRES SHALL BE CONTINUOUS WITHOUT SPLICES OR TAPS IN CONDUIT RUNS. ALL SPLICES SHALL BE MADE IN JUNCTION, PULL, OR OUTLET BOXES. ALL WIRE SHALL BE INSTALLED IN CONDUIT, WIREWAYS, OR OTHER PROTECTIVE COVER SANCTIONED BY CODES.

B. CONDUCTORS FOR LIGHTING AND POWER SHALL BE COPPER, MINIMUM NO. 12 A.W.G., 600 VOLT.

C. NO. 10 GAUGE AND SMALLER CONDUCTORS SHALL BE TYPE THWN (MET LOCATIONS) OR THHN (DRY LOCATIONS), SOLID CONDUCTOR, UNLESS OTHERWISE INDICATED.

D. NO. & GAUGE AND LARGER CONDUCTORS SHALL BE TYPE THAN (MET LOCATIONS) OR THHN (DRY LOCATIONS), STRANDED, UNLESS OTHERWISE INDICATED.

E. SERVICE ENTRANCE AND PANEL FEEDER CONDUCTORS, NO. 3 GAUGE AND LARGER SHALL BE TYPE XHHM-2 (MET LOCATIONS) OR THHN (DRY LOCATIONS), STRANDED COPPER, UNLESS OTHERWISE INDICATED.

7. MC CABLE

8. WIRING DEVICES:

A. MC CABLE SHALL CONSIST OF INTERLOCK ARMORED CABLE MADE OF THREE OR FOUR TYPE THHN SOLID (#8 AMG AND LARGER MAY BE STRANDED) COPPER CONDUCTORS RATED $90^{\circ}\mathrm{C}$ FOR DRY LOCATIONS WITH NYLON OR FOUNTAINT UILLISTED LACKET PER UIL STANDARD 83 THE THREE CONDUCTORS SHALL BE TWISTED TOGETHER WITH THE COPPER GROUNDING CONDUCTOR, SUITABLE FILLERS, AND WRAPPED IN BINDER TAPE. THE ASSEMBLY SHALL BE ARMORED WITH SPIRALLY WRAPPED INTERLOCKED ARMOR OF ALUMINUM OR GALVANIZED

B. CABLES SHALL BE TESTED IN ACCORDANCE WITH UL STANDARD 1569 FOR TYPE MC CABLE AND RATED AT 600 VOLTS, 90 DEG. C FOR DRY LOCATIONS AND 75 DEG. C FOR WET LOCATIONS.

A. WALL SMITCHES SHALL BE SPECIFICATION GRADE, QUIET TYPE, FLUSH TOGGLE SMITCH, RATED FOR 20 AMPS, WITH THERMOPLASTIC COVER PLATES.

1) SINGLE POLE: HUBBELL #C51221-X, OR EQUAL.
2) THREE WAY: HUBBELL #C51223-X, OR EQUAL. B) AS SPECIFIED ON PLANS

B. RECEPTACLES SHALL BE SPECIFICATION GRADE, DUPLEX, GROUNDING, THREE-WIRE TYPE, RATED FOR 20 AMPS, WITH THERMOPLASTIC COVER PLATES. HUBBELL #CR5352-X, OR EQUAL.

C. GROUND FAULT INTERRUPTER RECEPTACLES (GFI) SHALL BE HUBBELL #GF20-XL. DEVICE COVER

D. ISOLATED GROUND RECEPTACLES (IG) SHALL BE HUBBELL #CR5352IG, ORANGE COLOR. DEVICE COVER PLATES SHALL BE AS HEREINBEFORE SPECIFIED

E. RECEPTACLES OUTSIDE BUILDING AND WHERE NOTED AS WEATHERPROOF, SHALL BE LISTED 'WEATHER-RESISTANT' HUBBEL #GFTR20-X OR EQUAL AND SHALL BE INSTALLED IN A WEATHERPROOF ENCLOSURE WHICH SHALL BE INTERMATIC #WP1010MXD OR #WP1010HMXD DIECAST METAL WEATHERPROOF RECEPTACLE COVER. COVER SHALL BE WEATHER PROOF RATED WHILE IN USE.

F. VERIFY DEVICES AND DEVICE COVERPLATES COLOR AND STYLE WITH ARCHITECT.

9. BOXES:

A. HOT DIPPED GALVANIZED STEEL BOXES. PROVIDE TYPE TO SUIT CONDITIONS FOR INSTALLATION.

B. ALL BOXES SHALL BE FLUSH MOUNTED, UNLESS INDICATED OTHERWISE.

10. PANELBOARDS:

A. PANELBOARDS ARE EXISTING AND SHALL BE REUSED. PROVIDE ADDITIONAL BREAKERS AS REQUIRED TO QUICK-BREAK BOLT ON CIRCUIT BREAKERS WITH ONE HANDLE FOR SINGLE OR MULTI-POLE RATINGS AND SHALL BE COMPATIBLE WITH EXISTING PANELS.

B. COMPLETE EXISTING DIRECTORY AS REQUIRED TO IDENTIFY NEW CIRCUIT, LISTING LOAD SERVED AND

ELECTRICAL SPECIFICATIONS (CONTINUED)

11. DISCONNECTS:

A. DISCONNECTS SHALL BE EXTERNALLY OPERATED, QUICK-MAKE, QUICK-BREAK, SAFETY, WITH PROVISIONS FOR PAD LOCKING. FUSED AND NON-FUSED DISCONNECT SWITCHES SHALL BE PROVIDED AS INDICATED.

B. INDOOR SMITCHES SHALL BE NEMA I AND OUTDOOR SMITCHES SHALL BE NEMA 3R, UNLESS INDICATED

A. FUSES PROTECTING CIRCUIT BREAKER PANELS SHALL BE CURRENT LIMITING U.L. CLASS RK-1 FUSES MITH 200,000 AMPERES RMS SYM INTERRUPTING CAPACITY. FUSING ELEMENTS SHALL BE SILVER FOR

B. ALL OTHER FUSES SHALL BE U.L. CLASS RK-5, DUAL-ELEMENT WITH A MINIMUM TIME-DELAY OF 10 SECONDS AT 500% RATING. FUSES SHALL HAVE CURRENT-LIMITING SHORT-CIRCUIT LINKS AND 200,000 AMPERES RMS SYM INTERRUPTING CAPACITY. FUSING ELEMENTS SHALL BE COPPER.

13. LIGHT FIXTURES:

A. WHERE LIGHT FIXTURES ARE MOUNTED IN A LAY-IN CEILING. PROVIDE A MINIMUM OF 2 SUPPORT WIRES ATTACHED DIRECTLY BETWEEN EACH LIGHT FIXTURE AND THE BUILDING STRUCTURE. SUPPORT WIRES SHALL BE A MINIMUM OF 12 GAUGE GALVANIZED STEEL WIRE, SOFT ANNEALED.

B. FIXTURES ARE REQUIRED AT ALL LIGHTING OUTLETS SHOWN ON THE DRAWINGS. APPROVED LIGHTING FIXTURE WIRE IS REQUIRED IN ALL FIXTURES AND FIXTURE RACEWAYS. WEATHERPROOF WIRING IS REQUIRED FOR EXTERIOR FIXTURES. ALL PARTS OF FIXTURES AND WIRING SHALL BE IN ACCORDANCE WITH NEC REQUIREMENTS.

C. ALL FIXTURES SHALL CARRY UL AND ETL LABELS.

A. PROVIDE, SET, AND PROPERLY LOCATE PIPE SLEEVES AS REQUIRED FOR THIS WORK.

B. INTERIOR PARTITIONS: 16 GAGE GALVANIZED STEEL, PACK BETWEEN CONDUIT AND SLEEVE WITH FIRE SAFING AND CAULK AT EACH END WITH FIRE RESISTANT SEALANT.

C. ROOF: PROSET OR EQUAL, MANUFACTURED PVC SCHEDULE 40 PIPE SLEEVE WITH WEATHERPROOF SEAL. COORDINATE WITH ROOFING CONTRACTOR AND FLASH AS REQUIRED TO MAINTAIN ROOF WARRANTY.

A. GROUND ALL ELECTRICAL APPARATUS IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC) 250, AND ANY LOCAL REQUIREMENTS. INSURE CONTINUOUS BOND WHERE FLEXIBLE CONDUIT IS USED. PROVIDE BONDING JUMPER INSIDE ALL FLEXIBLE CONDUIT.

B. BOND METAL PIPING SYSTEMS IN COMPLIANCE WITH NEC 250.4(A)(4).

A. DEMOLITION: DISCONNECT, DEMOLISH AND REMOVE ABANDONED ELECTRICAL MATERIALS AND EQUIPMENT INDICATED TO BE REMOVED AND NOT INDICATED TO BE SALVAGED OR REMAIN.

B. EQUIPMENT TO BE SALVAGED:

1) DISCONNECT AND REMOVE EXISTING ELECTRICAL EQUIPMENT INDICATED TO BE REMOVED AND SALVAGED. DELIVER EQUIPMENT TO THE LOCATION DESIGNATED BY THE OWNER FOR STORAGE.

2) ALL MATERIALS AND EQUIPMENT DESIGNATED TO BE REUSED OR RELOCATED SHALL BE CAREFULLY REMOVED, AND STORED UNTIL NEEDED FOR REMODELING WORK. ALL ITEMS SHALL BE RESTORED TO "LIKE NEM" CONDITION MITH RUST OR CORROSION REMOVED, SURFACE PAINT TOUCHED UP OR REPAINTED AS REQUIRED TO MATCH NEW CONSTRUCTION, AND THOROUGHLY CLEANED AND INSPECTED. ANY ITEMS WHICH BECOME DAMAGED BEYOND REPAIR AS A RESULT OF CONSTRUCTION OR DEMOLITION ACTIVITY SHALL BE REPLACED WITH NEW MATERIAL EQUIVALENT IN EVERY RESPECT.

C. DISPOSAL AND CLEANUP: REMOVE FROM THE SITE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS AND EQUIPMENT NOT INDICATED TO BE SALVAGED.

D. PROTECT ADJACENT MATERIALS INDICATED TO REMAIN. INSTALL AND MAINTAIN DUST AND NOISE BARRIERS TO KEEP DIRT, DUST, AND NOISE FROM BEING TRANSMITTED TO ADJACENT AREAS. REMOVE PROTECTION AND BARRIERS AFTER REMODELING OPERATIONS ARE COMPLETE.

E. PROVIDE ALL ALTERATIONS AND REMORK INDICATED AND/OR REQUIRED FOR THE PROPER INSTALLATION AND OPERATION OF ALL EXISTING ELECTRICAL SYSTEMS, INTEGRATING THE NEW AND EXISTING AREAS. LOCATE, IDENTIFY, AND PROTECT ELECTRICAL SERVICES PASSING THROUGH REMODELING AREA AND SERVING OTHER AREAS OUTSIDE THE REMODELING LIMITS. MAINTAIN SERVICES TO AREAS OUTSIDE REMODELING LIMITS. WHEN SERVICES MUST BE INTERRUPTED, INSTALL TEMPORARY SERVICES FOR

1) ABANDONED CONDUIT SHALL HAVE WIRE REMOVED AND SHALL BE CAPPED. ABANDONED OUTLETS IN MALLS OR PARTITIONS SHALL HAVE DEVICES AND WIRE REMOVED, AND SHALL BE COVERED.

2) WHERE EXISTING CONDUITS TERMINATE AT AN EXISTING OUTLET IN A WALL, CEILING, OR FLOOR TO BE REMOVED, DISCONNECT AND REMOVE DEVICE AND WIRE FROM CONDUIT. CONDUIT SHALL BE CUT BACK AND CAPPED (BELOW THE FLOOR OR ABOVE THE CEILING) SO NOT TO CREATE AN OBSTRUCTION. PATCH FLOOR TO MATCH EXISTING.

3) WHERE EXISTING CIRCUITS EXTEND BEYOND THE OUTLET IN THE EXISTING WALL, CEILING, OR FLOOR TO BE REMOVED, FURNISH AND INSTALL NEW CONDUIT AND WIRE TO EITHER REPOUTE THE CIRCUIT OR FEED THE REMAINING OUTLET(S) FROM ANOTHER ELECTRICAL SOURCE. BUT IN SUCH A MANNER AS NOT TO REVISE THE CIRCUIT. ALL REROUTED CONDUIT SHALL BE APPROVED BY THE

4) WHERE EXISTING OUTLETS IN A WALL, CEILING, OR FLOOR TO BE REMOVED ARE ESSENTIAL TO MAINTAIN OPERATION OF OTHER REMAINING OUTLETS, RELOCATE THE OUTLET TO A NEW CONVENIENT LOCATION. EXISTING WIRING DEVICES SHALL NOT BE REUSED, UNLESS OTHERWISE INDICATED.

EXISTING CONDUIT (IF APPLICABLE) FOR THE NEW LIGHTING. ALL UNUSED CONDUIT SHALL BE 6) WHERE A TELEPHONE CIRCUIT EXTENDS BEYOND AN OUTLET IN AN EXISTING WALL, CEILING, OR

5) WHERE LIGHTING FIXTURES ARE INDICATED TO BE DEMOLISHED, REMOVE ALL WIRE AND MODIFY THE

FLOOR TO BE REMOVED, PROVIDE NECESSARY EMPTY CONDUIT AND NOTIFY THE OWNER WHO WILL REQUEST THE OWNER TO ARRANGE WITH THE TELEPHONE COMPANY FOR NEW WIRING TO OUTLETS THAT

7) WHERE EXISTING CONDUIT AND WIRE RUNS ARE LOCATED IN OR ATTACHED TO AN EXISTING WALL, CEILING OR FLOOR TO BE REMOVED, THEY SHALL BE REROUTED IN EITHER NEW OR EXISTING CONSTRUCTION TO MAINTAIN CONTINUITY OF CIRCUITS UNLESS OTHERWISE INDICATED

8) CONDUIT SHALL BE CONCEALED WITHIN THE EXISTING BUILDING CONSTRUCTION WHEREVER

POSSIBLE, EXCEPT WHERE OTHERWISE INDICATED. 9) EXISTING WIRE SHALL BE DISCONNECTED AND REMOVED WHEREVER EXISTING CIRCUITS ARE

17. BOXES IN FIRE RATED ASSEMBLIES:

A. OUTLET BOXES THAT DO NOT EXCEED 16 SQUARE INCHES AND INSTALLED IN FIRE RATED WALLS SHALL NOT BE INSTALLED CLOSER THAN 24" HORIZONTAL INCHES TO OTHER OUTLET BOXES.

B. IF BOXES MUST BE INSTALLED WITHIN 24" OF EACH OTHER THAN BOTH OUTLET BOXES SHALL BE PROTECTED WITH LISTED PUTTY PADS, 3M FIRE BARRIER MOLDABLE PUTTY + OR EQUAL.

ELECTRICAL SYMBOLS LIST CIRCUITING & NOTES SPECIAL MOUNTING HEIGHT FOR ASSOCIATED DEVICE (CENTERLINE OF DEVICE) GROUND FAULT CIRCUIT INTERRUPTER DEVICE COOPER #TR7756-X OR EQUAL DUPLEX RECEPTACLE WITH DUAL USB CHARGING PORTS. PROVIDE 2-1/8" DEEP BACK BOX. PARTIAL HOMERUN. REFER TO PLANS FOR ADDITIONAL DEVICES CONNECTED TO THIS CIRCUIT. ELECTRICAL FLOOR PLAN NOTE WITH DESIGNATION CONDUIT CONCEALED WHERE POSSIBLE OR AS NOTED, ARROWS INDICATE HOME RUN TO PANEL. CIRCUIT NUMBERS INDICATED #12 WIRE IN CONDUIT, UNLESS NOTED OTHERWISE ON DRAWINGS OR SPECIFICATION GROUNDING CONDUCTOR, #12 WIRE UNLESS NOTED OTHERWISE ON DRAWINGS OR SPECIFICATION CONDUIT ROUTED UNDER FLOOR/GRADE EMERGENCY TWIN HEAD LIGHT FIXTURE EXIT LIGHT WITH DIRECTIONAL ARROWS INDICATED STRIP FIXTURE WITH TYPE DESIGNATION RECESSED OR SURFACE MOUNTED FIXTURE WITH TYPE DESIGNATION NIGHT LIGHT, CONNECT TO UNSWITCHED CIRCUIT

CEILING OR RECESSED FIXTURE WITH TYPE DESIGNATION WALL MOUNTED FIXTURE WITH TYPE DESIGNATION POWER DEVICES

DUPLEX RECEPTACLE, BOTTOM OF BOX AT 16" AFF, UNLESS NOTED FOURPLEX RECEPTACLE, BOTTOM OF BOX AT 16" AFF, UNLESS NOTED OTHERWISE DEVICE MOUNTED ABOVE COUNTER AND/OR SPLASH GUARD HEAVY DUTY OUTLET - NEMA CONFIGURATION SIZE PER EQUIPMENT MANUFACTURER'S RECOMMENDATION PANEL BOARD, TOP OF BOX 6'-0" AFF JUNCTION BOX NON-FUSED DISCONNECT SMITCH FUSED DISCONNECT SMITCH MOTOR WITH DESIGNATION

FLOOR BOX

CONTROLS SINGLE POLE WALL SWITCH, TOP OF BOX AT 48" AFF DIMMER SWITCH - TYPE AS REQUIRED FOR COMPATIBILITY WITH FIXTURES CONTROLLED.

DUAL TECHNOLOGY/ULTRASONIC CEILING SENSORS SHALL BE MOUNTED 6' FROM SUPPLY/EXHAUST AIR DIFFUSERS. 2. LOW VOLTAGE CEILING SENSORS SHALL BE PROVIDED WITH 6' SLACK CONDUCTOR COILED AT SENSOR.

WALL MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR, WATT STOPPER #DW-100, TOP OF BOX AT 48" AFF WALL MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WITH 0-10V DIMMING, WATT STOPPER #DW-311 OR EQUAL TOP OF BOX AT

<u>COMMUNICATIONS</u>

DATA/TELEPHONE OUTLET WITH MINIMUM $^3\!\!\!\!/_{\scriptscriptstyle\parallel}$ " CONDUIT STUBBED UP TO ABOVE ACCESSIBLE CEILING, BOTTOM OF BOX AT 16", UNLESS NOTED OTHERWISE. PROVIDE WITH PULL STRING

FLAT SCREEN TELEVISION - PROVIDE AND INSTALL ONE (1) HUBBELL #RR1510X RECESSED TAMPER-RESISTANT DUPLEX RECEPTACLE WITH COVERPLATE AND ONE(1) HUBBELL #HBL260 TWO GANG LARGE CAPACITY WALL BOX (UP TO 2" KNOCKOUT) W/ MUD RING AND COVERPLATE FOR DATA. PROVIDE 2"C WITH PULL STRING TO ABOVE ACCESSIBLE CEILING FOR DATA CABLES.

MISCELLANEOUS

COMBINATION POWER AND DATA FLOORBOX

ELECTRICAL GENERAL NOTES:

COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACES AVAILABLE, AND WITHOUT INTERFERENCES.

2. WHERE CONDUIT IS SHOWN UNDER FLOOR, VERIFY IF FLOOR IS STRUCTURAL SLAB OR SLAB ON GRADE. IF STRUCTURAL SLAB, CORE DRILL PENETRATION, AND ROUTE CONDUIT IN SPACE BELOM. IF SLAB ON GRADE, SAW CUT EXISTING FLOOR SLAB AS REQUIRED FOR INSTALLATION OF UNDER FLOOR CONDUIT. NO STRUCTURAL ELEMENTS SHALL BE CORE DRILLED OR SAW CUT. WHEN SAW CUTTING, PATCH FLOOR TO MATCH EXISTING SURFACE AS REQUIRED.

3. IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO PROPERLY BALANCE ALL BRANCH CIRCUITS BETWEEN THE PHASES OF THE SYSTEM REGARDLESS OF CIRCUITING INDICATED.

4. ALL EXPOSED RACEWAYS SHALL BE IN EMT CONDUIT, MC CABLE IS NOT PERMITTED IN EXPOSED AREAS.

EQUIPMENT, FIXTURES, SYSTEMS, CONDUIT AND WIRE, ETC. NOT BEING REUSED. DO

6. ELECTRICAL CONTRACTOR TO COORDINATE MANUFACTURER ELECTRICAL REQUIREMENTS FOR HVAC EQUIPMENT BEING FURNISHED WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. EQUIPMENT DISCONNECTS TO BE PROVIDED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE IN MECHANICAL SCHEDULES.

7. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF LIGHT FIXTURES AND DEVICES.

SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.

VOLTAGE DROP. ALL FEEDERS SHALL BE SIZED TO ALLOW FOR A MAXIMUM OF 2% VOLTAGE DROP. ELECTRICAL CONTRACTOR SHALL VERIFY WIRING INDICATED IS SUFFICIENT AND INCREASE CONDUCTOR SIZE AS REQUIRED BASED OFF ACTUAL INSTALLED LENGTH OF CONDUCTORS

5. ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL

8. ALL MATERIALS EXPOSED WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR

9. ALL BRANCH CIRCUITS SHALL BE SIZED TO ALLOW FOR A MAXIMUM OF 3%

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RELEASE FOR CONSTRUCTION DEVELOPMENT SERVICE LEE'S SUMMIT, MISSO

MEP ENGINEER

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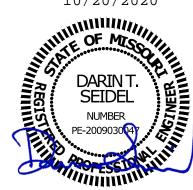
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6. 12. 20 Review Set 7. 13. 20 7. 19. 20 Permit Set 10. 20. 20 Revision 1

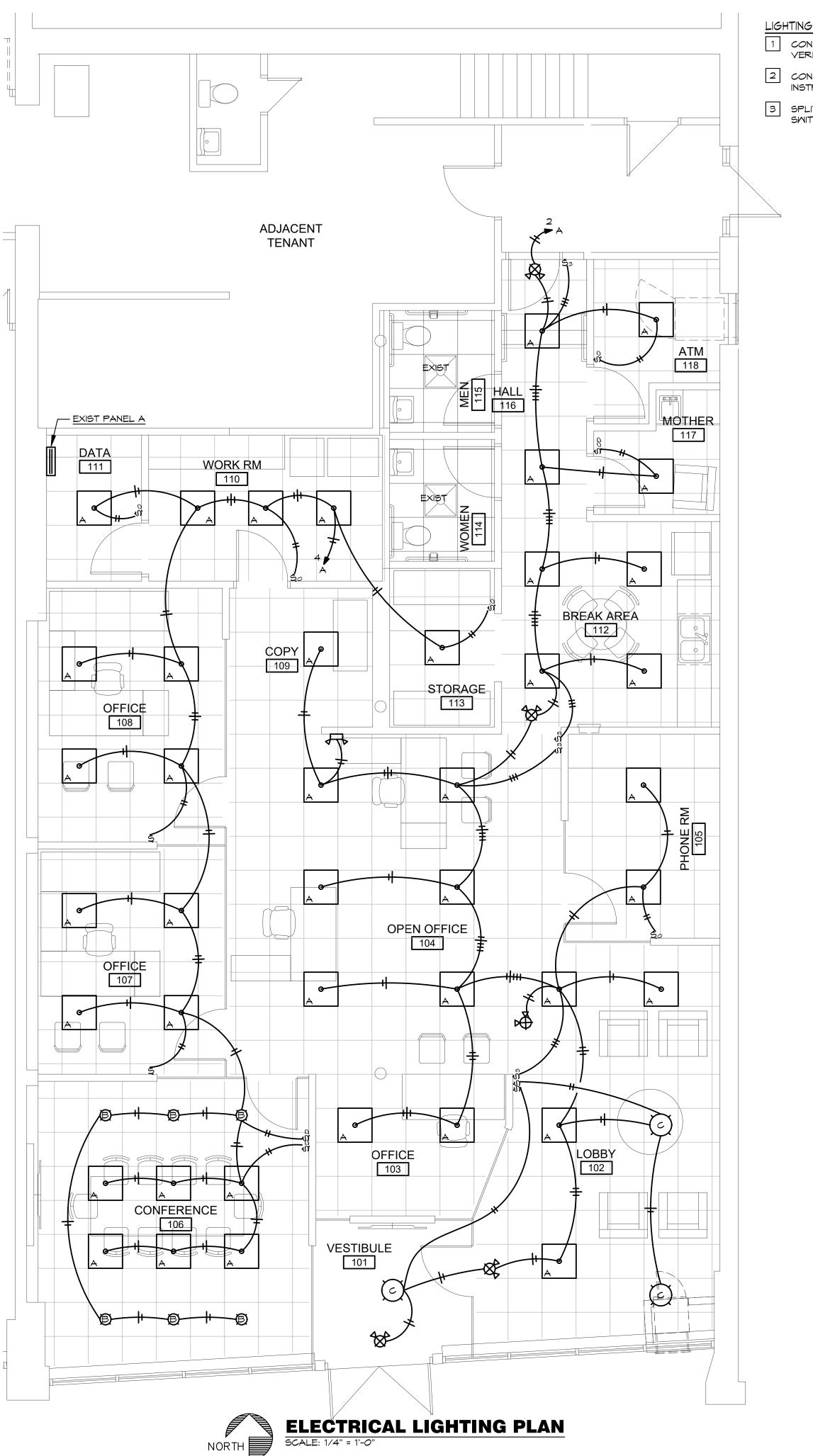
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LIGHTING PLAN NOTES:

- 1 CONNECT TO ATM PER SUPPLIER'S INSTRUCTIONS. VERIFY ALL REQUIREMENTS.
- 2 CONNECT TO NIGHT DEPOSITORY PER SUPPLIER'S INSTRUCTIONS. VERIFY ALL REQUIREMENTS.
- 3 SPLIT WIRED RECEPTACLE FOR DISHWASHER AND SWITCHED RECEPTACLE FOR GARBAGE DISPOSAL.

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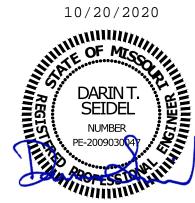
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10/20/2020



Issue	Date
Review Set	6. 12. 20
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Permit Set	7. 19. 20
Revision 1	10. 20. 20

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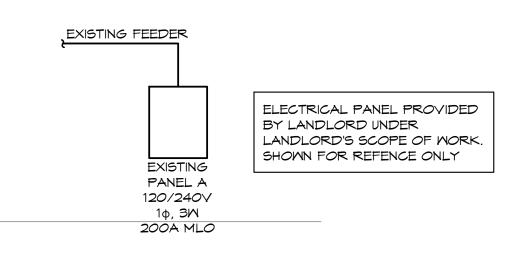
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E10

															_	
PANEL: A VOLTS: 120/240V		PH:	PH: 10 3M LOCATION: REAR WALL				MALL	MOUNTING: SURFACE								
	BUS: 225A	MAIN:	MAIN: 200A MLO									FEEDER: EXISTING				
CKT	DESCRIPTION	AMPS	POLE	MIRE	ФА	ФВ	ФА	ФВ	MIRE	POLE	AMPS	DESCRIPTION		2 N N N	\mid	
1	EXIST CU	50	2	6	3,078		396		12	1	20	L	IGHTS	2		M/
3						3,078		659	12	1	20	L	IGHTS	4	L	
5	EXIST CU	50	2	6	3,078		1,200		12	1	20		ATM	6		
7						3,078		540	12	1	20	RESTR	M RECEPTS	8		
9	CONF RM RECEPTS	20	1	12	900		540		12	1	20	MOTHER'S	5 RM RECEPTS	10		
11	OFFICE RECEPTS	20	1	12		1,080		1,080	12	1	20	BREAK/STO	RAGE REFCEPTS	12		
13	COPIER/PRINTER	20	1	12	1,200		60		12	1	20	REFRIG	ERATOR [GF]	14		
15	COPY RECEPTS	20	1	12		180		1,200	12	1	20	DISHM	AHSER [GF]	16		
17	WORK RM RECEPTS	20	1	12	540		1,500		12	1	20	BREAK COUNTER RECEPTS 10		18		
19	WORK RM RECEPTS	20	1	12		180		720	12	1	20	PHONE	RM RECEPTS	20	F	
21	WORK RM RECEPTS	20	1	12	360		900		12	1	20	LOBBY RECEPTS 22		22		_
23	DATA RM RECEPT	20	1	12		180		250	12	1	20	NIGHT DEPOSITORY 24			£	
25	EXIST FURNACE	15	1	12	1,200		180		12	1	20	WORK RM EQUIPMENT 26				
27	EXIST FURNACE	15	1	12		1,200		1,560	12	2	20	DATA RM MINI-SPLIT 28		28		
29		20	1	12			1,560							30		4
31		20	1	12					12	1	20			32		
33		20	1	12					12	1	20			34		
35		20	1	12					12	1	20	36		36		Ø
37		20	1	12					12	1	20			38		7
39		20	1	12					12	1	20			40		
NOTES	»:				10,356	3,976	7,376	6,009							F	
[GF]-G	FCI BRKR 5MA				17,	132	14,9	185	-	TOTAL	CONNE	CTED LOAD:	32,717	VA		Ē
										٨	iec den	MAND LOAD:	32,776	VA		
								DEM	IAND A	MPS @	240	VOLT / 1Ф:	136.57	A	F	

+		LIG	HT FIX	TURE SCHEDULE	
		1 1			
MARK NO.	MANUFACTURER & CATALOG NUMBER	VOLTS WATTS	LIGHT SOURCE	DESCRIPTION	EQUIVALENT MANUFACTURERS
A	METALUX 22EN-LD2-34-UNV- L835-CD1-U	120 29	LED 3400LUM 3500K	2'X2' RECESSED LED TROFFER WITH 0-10V DIMMING DRIVER	MILLIAMS LITHONIA OR EQUAL
	PORTFOLIO	120	LED	6"Φ RECESSED LED DOWNLIGHT WITH CLEAR	MILLIAMS
В	B LD56B-15-D010-EU6B- 18 1500LUM 1020-835-6LB5-1-H- 3500K		SEMI-SPECULAR REFLECTOR AND UNIVERSAL VOLTAGE DRIVER OR EG		
	TO BE SELECTED	120	VERIFY	DECORATIVE PENDANT FIXTURE TO BE	N/A
	C			SELECTED. VERIFY ALL REQUIREMENTS	
	DUAL-LITE EV4D-02L	12 <i>0</i>	INCL	EMERGENCY LIGHT WITH TWIN ADJUSTABLE 2 WATT LED HEADS AND BATTERY, MOUNT AT	SURE-LITES LITHONIA
				7'-6"±, TO CLEAR OBSTACLES. (PROVIDES 1 FC AVG. ON 39" CENTER FIXTURE SPACING) DAMP LOCATION RATED.	OR EQUAL
48	DUAL-LITE EVG-U-R-M	12 <i>0</i> 3	INCL	COMBINATION EMERGENCY/EXIT LIGHT WITH LED LAMPS, RED LETTERS ON WHITE BACKGROUND, TWIN LED EMERGENCY LIGHT HEADS, UNIVERSAL	SURE-LITES LITHONIA OR EQUAL
				MOUNT, BATTERY BACKUP	ON LOUAL
	DUAL-LITE EVC-U-R-W-D4	12 <i>0</i>	INCL	COMBINATION EMERGENCY/EXIT LIGHT WITH LED LAMPS, RED LETTERS ON WHITE BACKGROUND,	SURE-LITES LITHONIA
	MITH EVO-D-X			TWIN 6W EMERGENCY LIGHT HEADS, UNIVERSAL MOUNT, HIGH CAPACITY BATTERY BACKUP AND	OR EQUAL
				REMOTE TWIN HEAD OUTDOOR RATED FIXTURE	
	LITHONIA	120	LED	ARCHITECTURAL EXTERIOR LED EMERGENCY	SURE-LITES
EX	AFN-DB-EXT	21	INCL 4000K	LIGHT WITH COLD MEATHER BATTERY, COORDINATE FINISH TO MATCH BUILDING	LITHONIA OR EQUAL
]	<u> </u>			I	



ELECTRICAL RISER DIAGRAM
SCALE: NONE

Tenant Finishes

Country

Club Bank

32 SE 3rd Street

Lee's Summit, MO

10/20/2020

RELEASE FOR CONSTRUCTION

DEVELOPMENT SERVICES
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02/02/2021

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