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ENGINEERED BUILDING SYSTEMS

evisions to technical submissions which are n

CHAEL MOORES, MO Architect #2009032812

**TENANT FINIS** 

roject Number:

Project Name and Address:

made or approved by the licensee are prohibited

# H • G • B • A

# 1X PLASTICS

# PERMIT SUBMITTAL

# OCTOBER 25, 2024

# **ACCESSIBILITY NOTES:**

- ACCESS TO THESE FACILITIES SHALL BE PROVIDED AT PRIMARY ENTRANCES, AS REQUIRED BY ADA.
- 2. WALKS & SIDEWALKS SHALL HAVE A CONTINUOUS COMMON SURFACE NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING 1/2" AND SHALL BE A MIN. OF 36" IN WIDTH.
- AT LEAST AS SLIP RESISTANT AS THAT DESCRIBED AS A MEDIUM SALTED FINISH.

SURFACES WITH A SLOPE OF LESS THAN 6% GRADIENT SHALL BE

- 4. SURFACES WITH A SLOPE OF 6% GRADIENT OR GREATER SHALL BE SLIP RESISTANT.
- 5. SURFACE CROSS SLOPES SHALL NOT EXCEED 1/4" PER FOOT.
- 6. WALKS, SIDEWALKS & PEDESTRIAN WAYS SHALL BE FREE OF GRATING WHENEVER POSSIBLE. FOR GRATINGS LOCATED IN THE SURFACE OF ANY OF THESE AREAS, GRID OPENINGS IN THE GRATINGS SHALL BE LIMITED TO 1/2" IN THE DIRECTION OF TRAFFIC FLOW.
- 7. WHEN THE SLOPE IN THE DIRECTION OF TRAVEL OF ANY WALK EXCEEDS 1 VERTICAL TO 20 HORIZONTAL, IT SHALL COMPLY WITH THE PROVISIONS OF A PEDESTRIAN RAMP.
- 8. ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2". WHEN CHANGES IN LEVEL DO OCCUR, THEY SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2, EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL. WHEN CHANGES IN LEVELS GREATER THAN 1/2" ARE NECESSARY, THEY SHALL COMPLY WITH THE REQUIREMENTS FOR CURB OR PEDESTRIAN RAMPS.
- 9. EVERY REQUIRED EXIT DOORWAY SHALL BE SIZED FOR A DOOR NOT LESS THAN 3 FT. WIDE BY NOT LESS THAN 6'-8" HIGH CAPABLE OF OPENING 90° AND MOUNTED SO THAT THE CLEAR WIDTH OF THE EXIT WAY IS 32" MIN.
- 10. THRESHOLDS MAY BE A MAX. 1/2" ABOVE ADJACENT FINISH
- 11. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 8 1/2 LBS. FOR EXTERIOR DOORS AND 5 LBS. FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MAXIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 LBS.
- 12. THE BOTTOM 10" OF ALL DOORS, EXCEPT AUTOMATIC AND SLIDING, SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE.

- 13. PROVIDE LEVER-TYPE HARDWARE, PANIC BARS, PUSH PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE THE HARDWARE. (34" TO 48" A.F.F.)
- PROVIDE 17" (MIN.) OR 18" (MAX.) FROM ADJACENT WALL TO CENTERLINE OF WATER CLOSET.
- 15. PROVIDE A 30"x48" CLEAR SPACE WITHIN THE TOILET ROOM THAT DOES NOT ENCROACH INTO THE DOOR SWING.
- 16. GRAB BARS LOCATED ON EACH SIDE, OR ONE SIDE AND THE BACK OF PHYSICALLY DISABLED TOILET COMPARTMENTS SHALL BE SECURELY ATTACHED 33" MIN. AND 36" MAX. FROM THE FINISHED FLOOR TO THE TOP OF THE GRAB BAR AND PARALLEL TO THE FLOOR. THE SPACE BETWEEN WALL-MOUNTED GRAB BARS AND THE WALL SHALL BE 1 1/2". GRAB BARS AT THE SIDE SHALL BE 42" LONG, AND THE BACK END SHALL BE LOCATED 12" FROM THE BACK WALL. GRAB BARS AT THE BACK SHALL BE NOT LESS THAN 36" LONG WITH THE END CLOSEST TO THE SIDE WALL MOUNTED 12" FROM THE CENTER OF THE WATER CLOSET. THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A GRAB BAR SHALL BE 1 1/4" TO 1 1/2" OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE.
- 17. WATER CLOSET HEIGHT SHALL BE 17" (MIN.) OR 19" (MAX.)
  MEASURED TO THE TOP OF THE
  TOILET SEAT TO THE FINISHED FLOOR. CONTROLS SHALL BE
  OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT
  GRASPING, PINCHING, OR TWISTING OF THE WRIST. CONTROLS
  FOR FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF
  TOILET AREAS, NO MORE THAN 44" A.F.F. THE FORCE REQUIRED
  TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS. OF
- 18. URINALS SHALL BE 17" (MAX.) ABOVE THE FLOOR AND PROJECT 13 1/2" FROM THE WALL. URINALS SHALL HAVE A CLEAR SPACE OF 30"X48" IN FRONT. FLUSH VALVES SHALL BE AUTOMATIC OR MOUNTED NO MORE THAN 44" A.F.F. IF HAND-OPERATED.
- 19. IN FRONT OF LAVATORIES, PROVIDE A 30"x48" CLEAR SPACE LOCATED 25" (MAX.) FROM THE LEADING EDGE OF THE LAVATORY TOWARD THE MOUNTING WALL. KNEE CLEARANCE SHALL BE 11" DEEP (MIN.) AT 9" A.F.F. AND 8" DEEP (MIN.) AT 27" A.F.F. BETWEEN 9" AND 27" A.F.F., THE KNEE CLEARANCE SHALL BE PERMITTED TO REDUCE AT A RATE OF 1" IN DEPTH FOR EACH 6" IN HEIGHT.
- 20. ALL ACCESSIBLE LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER THAN 34" A.F.F.
- 21. HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

# 22. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS.

CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE

DESIGNS. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET

IS OPEN FOR AT LEAST 10 SECONDS.

23. LOCATE PAPER TOWEL DISPENSERS, SOAP DISPENSERS, SANITARY NAPKIN DISPENSERS, AND WASTE RECEPTACLES WITH

LEVER-OPERATED, PUSH-TYPE, AND ELECTRONIC

ALL OPERABLE PARTS BETWEEN 15" AND 48" A.F.F.

- 4. LOCATE TISSUE DISPENSERS ON THE WALL 7" (MIN.) AND 9" (MAX.) FROM THE FRONT EDGE OF THE TOILET SEAT TO THE CENTERLINE OF DISPENSER WITH THE OUTLET BETWEEN 15" AND
- 25. ACCESSIBLE RESTROOMS SHALL BE PROVIDED WITH SIGNAGE DESIGNED AND LOCATED PER SECTION 703 OF THE ADA DESIGN
- 26. DOORS IN ACCESSIBLE ROUTES SHALL BE DESIGNED TO MEET CLEARANCE REQUIREMENTS PER SECTION 404 OF THE ADA DESIGN GUIDELINES.
- 27. WALKS, HALLS, CORRIDORS, PASSAGEWAYS, AISLES OR OTHER CIRCULATION SPACES SHALL HAVE 80" MINIMUM CLEAR
- 28. OBJECTS PROJECTING FROM WALLS WITH THEIR LEADING EDGES BETWEEN 27" AND 80" ABOVE THE FINISH FLOOR SHALL PROTRUDE NO MORE THAN 4" INTO WALKS, HALLS, CORRIDORS, PASSAGEWAYS OR AISLES. OBJECTS MOUNTED AT OR BELOW 27" ABOVE FINISH FLOOR MAY PROTRUDE ANY AMOUNT.
- 29. OBJECTS THAT ARE BETWEEN 27" AND 80" A.F.F. AND MOUNTED ON POSTS MAY EXTEND BEYOND THE POSTS A MAXIMUM OF 12". OBJECTS MOUNTED BETWEEN POSTS, WHERE THE SPACE BETWEEN THE POSTS IS GREATER THAN 12", THE LOWEST EDGE OF THE OBJECT SHALL BE LOCATED 27" MAX. AND 80" MIN. A.F.F.
- 30. IF CARPET OR CARPET TILE IS USED ON A GROUND OR FLOOR SURFACE IN A COMMON USE AREA, IT SHALL HAVE FIRM BACKING OR NO BACKING. THE MAXIMUM PILE HEIGHT SHALL BE 1/2". EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND HAVE TRIM ALONG THE EXPOSED EDGE, AND TRIM SHALL COMPLY WITH THE REQUIREMENTS FOR CHANGES IN LEVEL.

# **CONSTRUCTION NOTES:**

- PERFORM ALL WORK IN ACCORDANCE WITH ACCEPTABLE TRADE
   PRACTICE TO ENSURE THE HIGHEST QUALITY FINISHED PRODUCT EXPRESSED OR IMPLIED. PERFORM ALL WORK BY SKILLED MECHANICS
   IN ACCORDANCE WITH ESTABLISHED STANDARDS OF WORKMANSHIP IN
   EACH OF THE VARIOUS TRADES.
- 2. WHEN THE PROJECT REQUIREMENTS REQUIRE THAT THE INSTALLATION OF WORK SHALL COMPLY WITH MANUFACTURER'S INSTRUCTIONS, PERFORM THE WORK IN STRICT ACCORDANCE WITH THE MOST CURRENT WRITTEN MANUFACTURER'S INSTRUCTIONS.
- 3. ALL PRODUCTS AND EQUIPMENT SHALL BE DELIVERED IN UNDAMAGED CONDITION AND STORED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS TO AVOID DISRUPTION OF THE WORK OR DAMAGE TO THE ITEMS. REPLACE DAMAGED OR UNFIT MATERIALS, AT NO COST TO THE OWNER.
- 4. COORDINATE BLOCKING REQUIREMENTS WITH ADJACENT OR RELATED TRADES, ACCESSORIES, EQUIPMENT AND FIXTURES. INSTALL REQUIRED BLOCKING AT NO ADDITIONAL COST TO THE CONTRACT.
- ALL WEATHER-EXPOSED SURFACES SHALL HAVE A WEATHER-RESISTIVE BARRIER. EXTERIOR OPENINGS SHALL BE FLASHED IN SUCH A MANNER AS TO MAKE THEM WATERPROOF.
- 6. REPAIR PROPERTY DAMAGE BY THE INSTALLERS TO A LIKE NEW CONDITION, OR REPLACE DAMAGED SURFACES AND MATERIALS OF THE PREVIOUSLY INSTALLED WORK BY OTHER TRADES, INSTALLERS, AND SUBCONTRACTORS.
- 7. ALLOWABLE TOLERANCES UNLESS OTHERWISE NOTED OR INDICATED, THE FOLLOWING TOLERANCES SHALL APPLY TO ALL WORK:
- g. ALL VERTICAL SURFACES SHALL BE PLUMB OR CONSTRUCTED TO THE EXACT SLOPES OR ANGLES INDICATED.
- h. ALL HORIZONTAL SURFACES SHALL BE LEVEL OR CONSTRUCTED TO THE EXACT ANGLE INDICATED OR INTENDED.
- i. WALL AND SOFFIT INTERSECTIONS SHALL BE 90° OR THE EXACT ANGLE INDICATED OR INTENDED.
   j. ALL CORNERS AND EDGES SHALL BE STRAIGHT AND TRUE
- j. ALL CORNERS AND EDGES SHALL BE STRAIGHT AND TRUE WITHOUT DENTS, WAVES, BULGES OR OTHER BLEMISHES.
   k. ALL JOINTS SHALL BE TIGHT, STRAIGHT, EVEN, AND SMOOTH.
   I. ALL OPERABLE ITEMS SHALL OPERATE SMOOTHLY WITHOUT STICKING OR BINDING AND WITHOUT EXCESSIVE
- 8. THE CONTRACTOR SHALL NOTIFY THE OWNER WHEN THE WORK IS SUBSTANTIALLY COMPLETE AND READY FOR INSPECTION. UPON INSPECTION, PROVIDE WRITTEN OPERATION AND MAINTENANCE INSTRUCTIONS AND GUARANTEES FOR ALL EQUIPMENT AND MATERIALS INSTALLED. PROVIDE WRITTEN GUARANTEES FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK.

# **GENERAL NOTES:**

- THE CONTRACTOR SHALL SECURE AND PAY FOR GOVERNMENT LICENSES, INSPECTIONS, TESTING, TEMPORARY UTILITIES AND PERMITS AS REQUIRED BY THE CONSTRUCTION DOCUMENTS AND/OR REGULATORY BODY HAVING AUTHORITY.
- 2. CONTRACTORS SHALL VISIT THE SITE WHILE BIDDING AND SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND THE REQUIREMENTS OF THE PROJECT AND CONSTRUCTION DOCUMENTS PRIOR TO DEVELOPING THEIR BID, FABRICATION / CONSTRUCTION, AND PURCHASING. MATERIAL QUANTITIES SHALL BE BASED ON ACTUAL FIELD CONDITIONS AND MEASUREMENTS. DO NOT RELY ON SCALING DRAWINGS FOR ACCURATE DIMENSIONS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OR OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES, CONFLICTS OR OMISSIONS DISCOVERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTIONS AND/OR REPAIRS REQUIRED FOR FAILING TO DO SO.
- 3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL CONSTRUCTION DOCUMENTS TO THEIR SUBCONTRACTORS AS REQUIRED FOR THEM TO DEVELOP A COMPLETE BID FOR THEIR WORK AND TO HAVE A COMPLETE UNDERSTANDING OF COORDINATION NEEDED WITH OTHER SUBCONTRACTORS FOR RELATED HIDDEN OR EXPOSED WORK TO ENSURE EFFICIENT AND ORDERLY INSTALLATION.
- 4. THE ARCHITECT ASSUMES NO LIABILITY FOR THE SERVICES AND/OR CONSTRUCTION DOCUMENTS OF DESIGN SUB-CONSULTANTS COMPILED INTO THE SET OF DOCUMENTS ISSUED BY THE ARCHITECT. THESE DESIGN SERVICES MAY INCLUDE, BUT ARE NOT LIMITED TO, CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, PRE-ENGINEERED METAL BUILDING DESIGN, TILT-UP DESIGN, TRUSS SYSTEM DESIGN, AUTOMATIC FIRE SPRINKLER AND/OR ALARM SYSTEMS, LOW-VOLTAGE ELECTRICAL TELECOMMUNICATION AND SECURITY SYSTEMS AND GUTTER / DOWNSPOUT DESIGN.
- 5. UNLESS SPECIFICALLY NOTED OTHERWISE, THE CONTRACTOR SHALL PROVIDE AND PAY FOR LABOR, MATERIALS, EQUIPMENT, MACHINERY, SCAFFOLDING, SHORING, TOOLS, LAYOUT, ON-SITE DIMENSIONING, TRANSPORTATION, UTILITIES, AND OTHER FACILITIES AND SERVICES NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE WORK AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS. THIS SHALL ALSO INCLUDE NECESSARY CUTTING, PATCHING AND REPAIRING OF EXISTING CONSTRUCTION MATERIALS IN PLACE. ALL WORK AND MATERIAL SHALL COMPLY WITH THE APPLICABLE GOVERNING CODES
- 6. WHERE DETAILS AND DESIGN INTENT ARE NOT CLEAR, THE CONTRACTOR SHALL CONSULT THE ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL DESIGN AND INSTALL ADEQUATE SHORING AND BRACING FOR STRUCTURAL MODIFICATIONS, INSTALLATIONS AND ERECTION.
- 8. CONTRACTORS SHALL TAKE CARE TO PROTECT ADJACENT AREAS FROM DUST AND DAMAGE DURING THE CONSTRUCTION PROCESS AND SHALL CLEAN UP AFTER THEMSELVES AT THE END OF EACH WORKING DAY. ANY DAMAGE DONE TO ADJACENT AREAS MUST BE REPAIRED TO MATCH ORIGINAL CONDITIONS OR TO THE OWNER'S SATISFACTION. REPAIRS ARE TO BE PAID FOR BY THE CONTRACTOR RESPONSIBLE.
- 9. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY ADDITIONAL WORK OR REVISIONS REQUIRED DUE TO SITE CONDITIONS OR ADDITIONAL REQUIREMENTS OF ANY REGULATORY BODIES HAVING AUTHORITY.
- 10. FOR THE DURATION OF THE PROJECT AND AT ALL TIMES OF EACH DAY, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE CONDITIONS, SECURITY AND SAFETY FOR WORKERS AND THE GENERAL PUBLIC, AS REQUIRED BY THE REGULATORY BODY HAVING AUTHORITY.
- 11. THE GENERAL CONTRACTOR SHALL PURCHASE AND MAINTAIN INSURANCE COVERAGE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER. VERIFY AND COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR ANY ADDITIONAL REQUIREMENTS.
- 12. THE OWNER OR THE OWNER'S SUBCONTRACTORS MAY OCCUPY PORTIONS OF THE PROJECT DURING THE FINAL STAGE OF CONSTRUCTION. COORDINATE AND COOPERATE WITH THE OWNER TO MINIMIZE CONFLICT AND FACILITATE THE OWNER'S OPERATION.
- 13. THE CONTRACTOR SHALL PROVIDE SECURITY OF THE WORK, INCLUDING TOOLS AND UNINSTALLED MATERIALS. PROTECT THE WORK, STORED PRODUCTS, CONSTRUCTION EQUIPMENT, AND OWNER'S PROPERTY FROM THEFT AND VANDALISM, AND PROTECT THE PREMISES FROM ENTRY BY UNAUTHORIZED PERSONNEL UNTIL FINAL ACCEPTANCE BY THE OWNER
- 14. CONTRACTOR SHALL COORDINATE STAGING AREAS AS REQUIRED BY THE LANDLORD / OWNER.
- 15. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL EXISTING UTILITIES.
- 16. THE STRUCTURAL ENGINEER AND ARCHITECT MUST BE NOTIFIED AND MUST GIVE APPROVAL PRIOR TO ANY STRUCTURAL MEMBER(S) BEING CUT OR MODIFIED TO ACCOMMODATE THE INSTALLATION OF ANY PIPES, DUCTS OR OTHER CONSTRUCTION.
- 17. THE STRUCTURAL ENGINEER AND ARCHITECT MUST BE NOTIFIED AND MUST GIVE APPROVAL PRIOR TO ANY MODIFICATION TO THE ROOF SYSTEM OR ADDING ANY ADDITIONAL ROOF-MOUNTED EQUIPMENT.

# DISCLAIMER:

THESE DRAWINGS ARE CONSIDERED A "BUILDER'S SET" AND BY BEGINNING CONSTRUCTION, THE CONTRACTOR GUARANTEES TO THE ARCHITECT, THAT THE CONTRACTOR HAS THE COMPETENCE AND SKILL IN CONSTRUCTION NECESSARY TO BUILD THE PROJECT WITH THESE DRAWINGS. THE CONTRACTOR WILL BE REQUIRED TO ADAPT THE DRAWINGS TO ACTUAL FIELD CONDITIONS AND MAKE LOGICAL ADJUSTMENTS IN FIT, FORM, DIMENSION AND QUANTITY. IN THE EVENT ADDITIONAL DETAIL OR GUIDANCE IS NEEDED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT. FAILURE TO GIVE NOTICE SHALL RELIEVE THE ARCHITECT OF RESPONSIBILITY FOR ANY RESULTANT EXPENSES, REPAIRS OR ADDITIONAL WORK. IT IS UNDERSTOOD AND AGREED THAT IF THE ARCHITECT IS NOT HIRED TO DO CONSTRUCTION OBSERVATION OR ANY OTHER CONSTRUCTION PHASE SERVICES, THAT THE ENTITY HIRED TO PERFORM SUCH SERVICES ASSUMES ALL RESPONSIBILITY FOR THESE SERVICES, AND THE CLIENT WAIVES ANY CLAIMS AGAINST THE ARCHITECT THAT MAY BE IN ANY WAY CONNECTED THERETO.

### **ABBREVIATIONS:\***

FLOOR DRAIN

FINISHED FLOOR

FIRE RETARDANT

FIELD VERIFY

GALVANIZED

INTERRUPTER

GYPSUM BOARD

HOSE BIB

HARDWARE

HOLLOW METAL

HEIGHT

HOUR

HRDWD HARDWOOD

INSUL INSULATION

FLOOR

FRP

GALV

HM

FURNISH AND INSTALL

GENERAL CONTRACTOR

GROUND FAULT CIRCUIT

FIRE EXTINGUISHER, FINISHED

FIBER-REINFORCED PLASTIC

\*NOTE: THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY ABBREVIATIONS

	ED AND REQUEST CLARIFICATIONS.	ARCHITE	CT OF ANY ABBREVIATIONS
@ ACT	AT ACOUSTIC CEILING TILE	JT	JOINT
ADJ AFF	ADJUSTABLE ABOVE FINISHED FLOOR	KS	KNEE SPACE
ALUM ANOD	ALUMINUM ANODIZED	L LB (#)	LONG POUND
ATT	ATTENUATION	LVL	LAMINATED VENEER LUMBER
BD BET	BOARD BETWEEN	MAX MDO	MAXIMUM MEDIUM DENSITY OVERLAY
BF	BARRIER FREE	MECH	MECHANICAL
BIT	BITUMINOUS	MFR	MANUFACTURER
BLDG BO	BUILDING BOTTOM OF	MICRO MIN	MICROWAVE MINIMUM
BTM	BOTTOM OF	MO	MASONRY OPENING
		MR	MOISTURE RESISTANT
CPT CT	CARPET CERAMIC TILE	MTD MTL	MOUNTED METAL
CJ	CONTROL JOINT	IVIIL	WETAL
CL	CENTER LINE	NIC	NOT IN CONTRACT
CLG CLR	CEILING CLEAR	NO NOM	NUMBER NOMINAL
CMU	CONCRETE MASONRY UNIT	NOW	NOMINAL
COMP	COMPRESSIBLE	O.C.	ON CENTER
CONC CONT	CONCRETE CONTINUOUS	O.D. O.H.	OUTSIDE DIAMETER OVERHEAD or OPPOSITE HAND
CONT	CONTINUOUS	O.H. OSB	ORIENTED STRAND BOARD
D	DRYER	OZ	OUNCE
DEG DEMO	DEGREE DEMOLITION	DDEEAD	PREFABRICATED
DEMO	DRINKING FOUNTAIN	PLAM	PLASTIC LAMINATE
DH	DOUBLE-HUNG	PLYWD	PLYWOOD
DIA DN	DIAMETER DOWN	PR PT	PAIR PRESSURE TREATED
DN DP	DEEP	PNT	PAINT
DS	DOWN SPOUT	PEMB	PRE-ENGINEERED MTL BLDG
DW	DISHWASHER	QTY	QUANTITY
EA	EACH	_	
EJ EQ	EXPANSION JOINT EQUAL	R RCP	RISER REFLECTED CEILING PLAN
ETR	EXISTING TO REMAIN	REF	REFRIGERATOR, REFERENCE
EXG	EXISTING	REINF	REINFORCED
EXP	EXPOSED TO STRUCTURE	REQD RM	REQUIRED ROOM
		LVIVI	TOOM STANDS

ROUGH OPENING

RUBBER COVE BASE

SEALED CONCRETE

STAINLESS STEEL

TO BE DETERMINED

UNLESS NOTED OTHERWISE

VINYL COMPOSITION TILE

SQUARE FEET

SIMILAR

SQUARE

STAIN

TOP OF

TYPICAL

VERTICAL

WITH

WOOD

WASHER, WIDE

WATER HEATER

WALK-IN CLOSET

WELDED WIRE FABRIC

RCB

# 1X PLASTICS 2700 NE McBaine Driv Lee's Summit, Missouri 6

ssue:	Date:
Permit Submittal	10.25.24

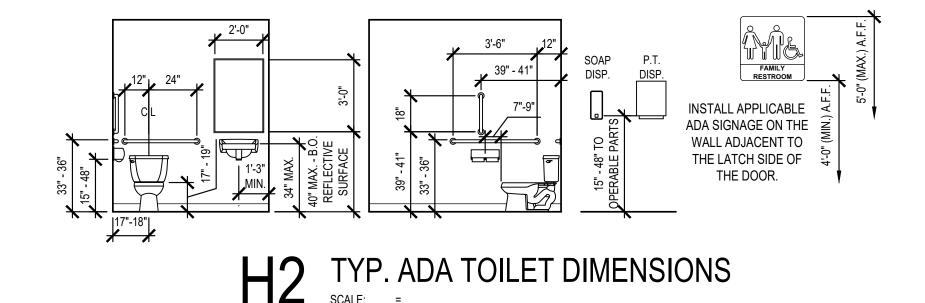
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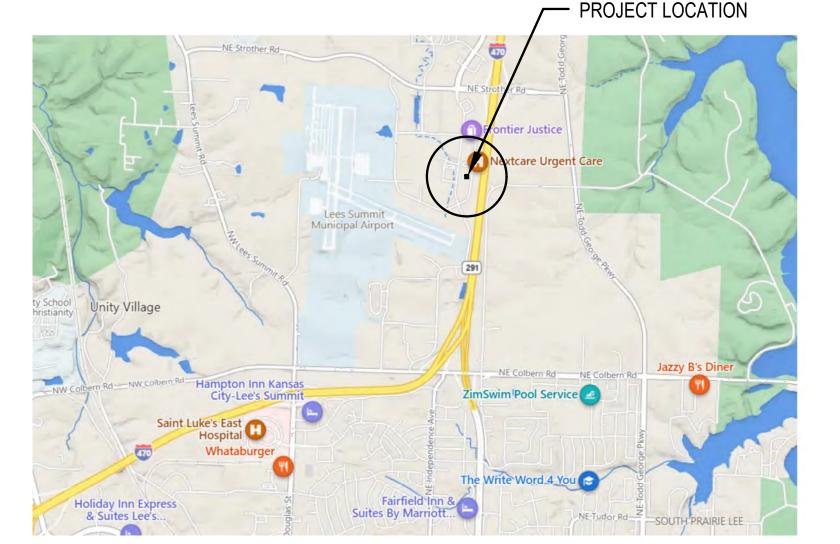
COVER / MAP

GENERAL NOTES

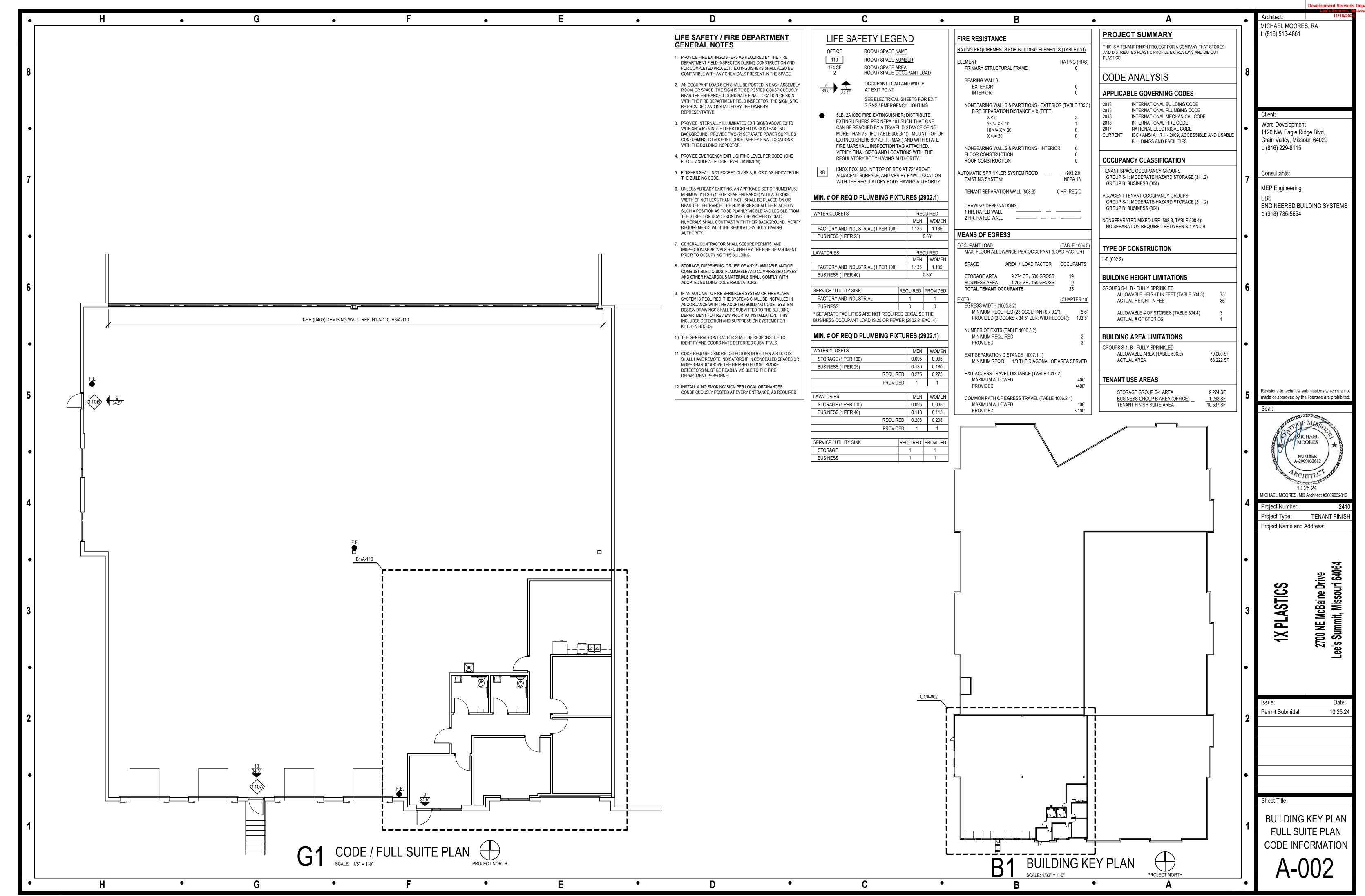
ADA NOTES

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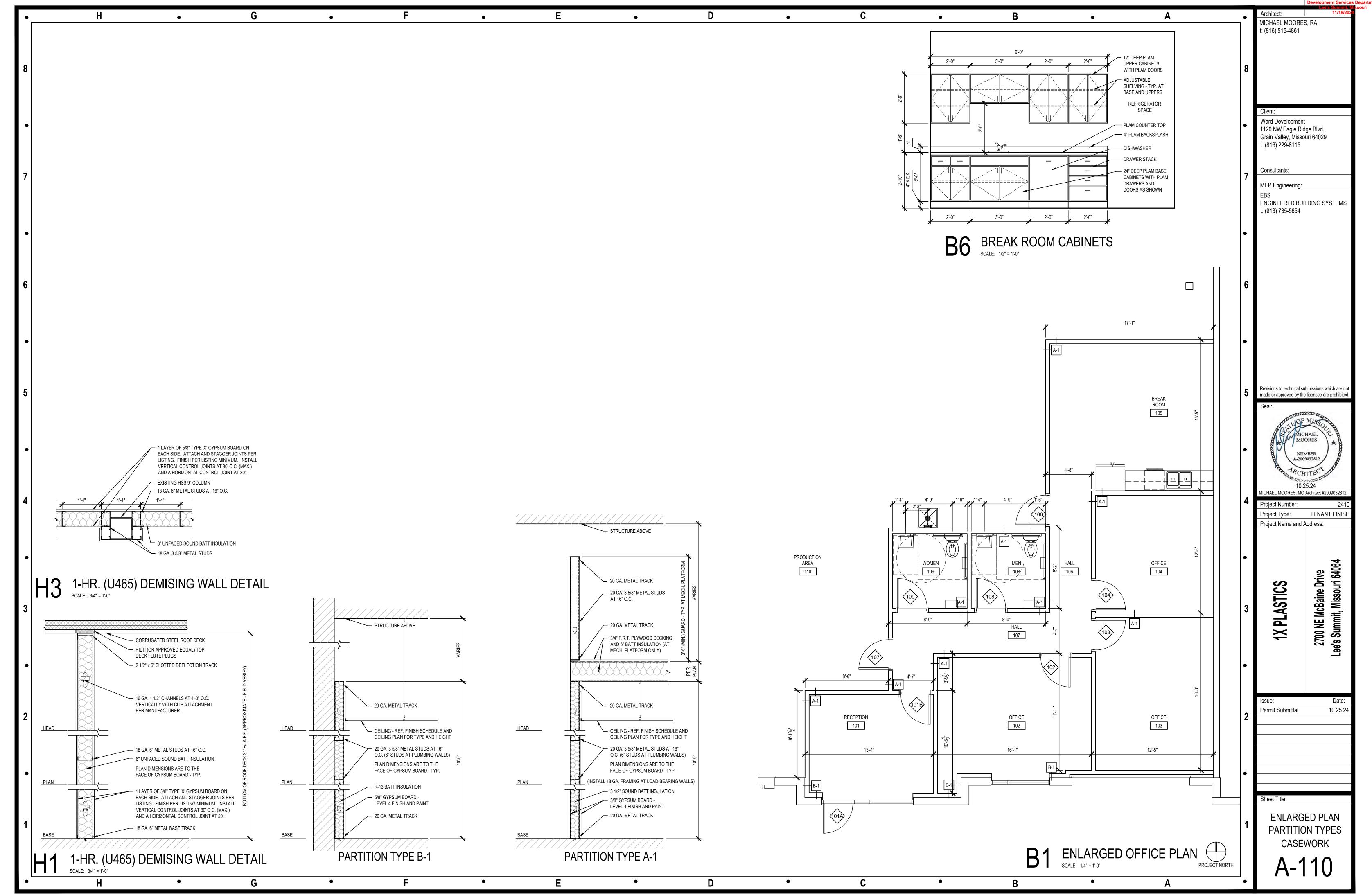
F1 VICINITY MAP

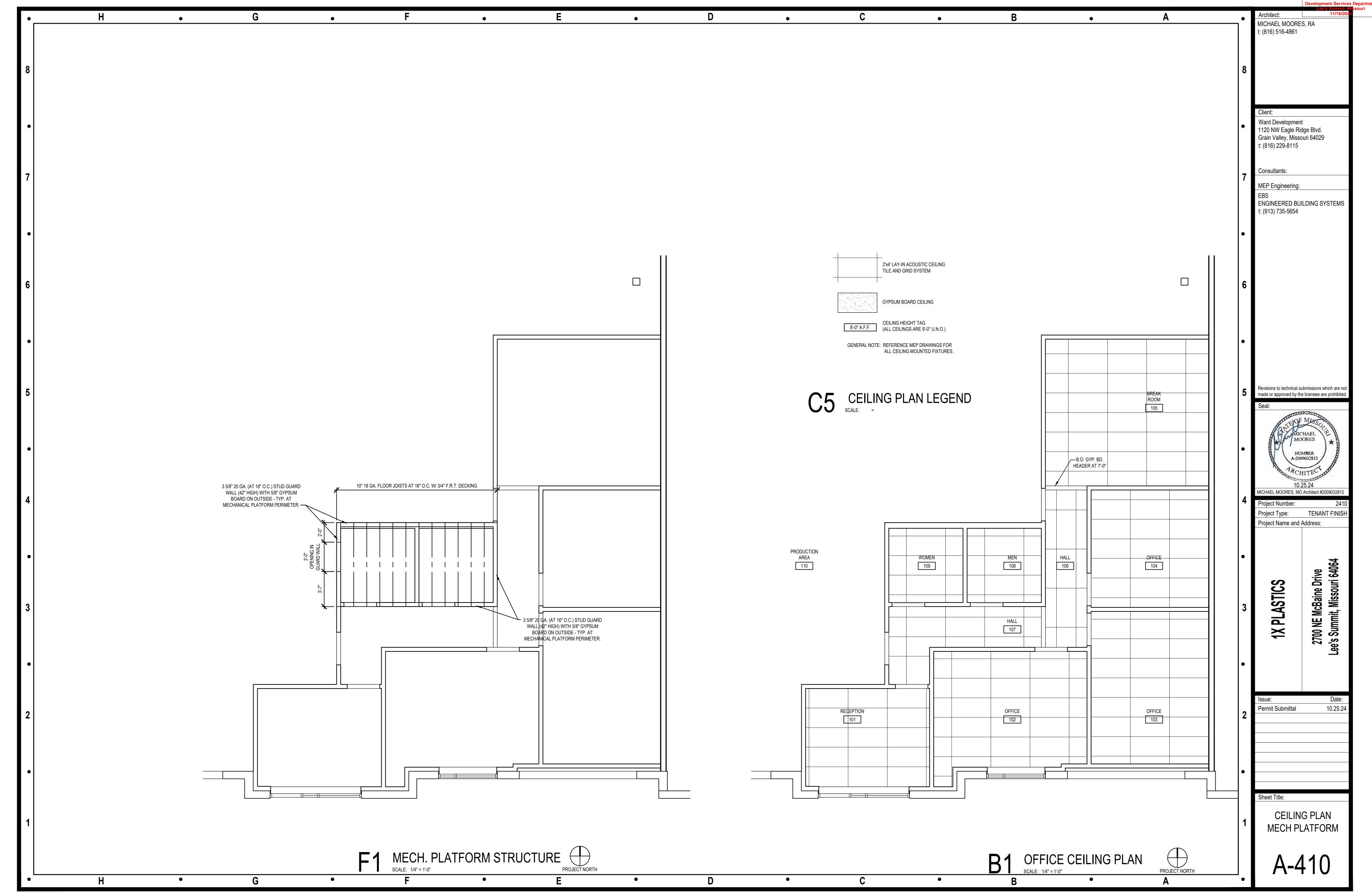


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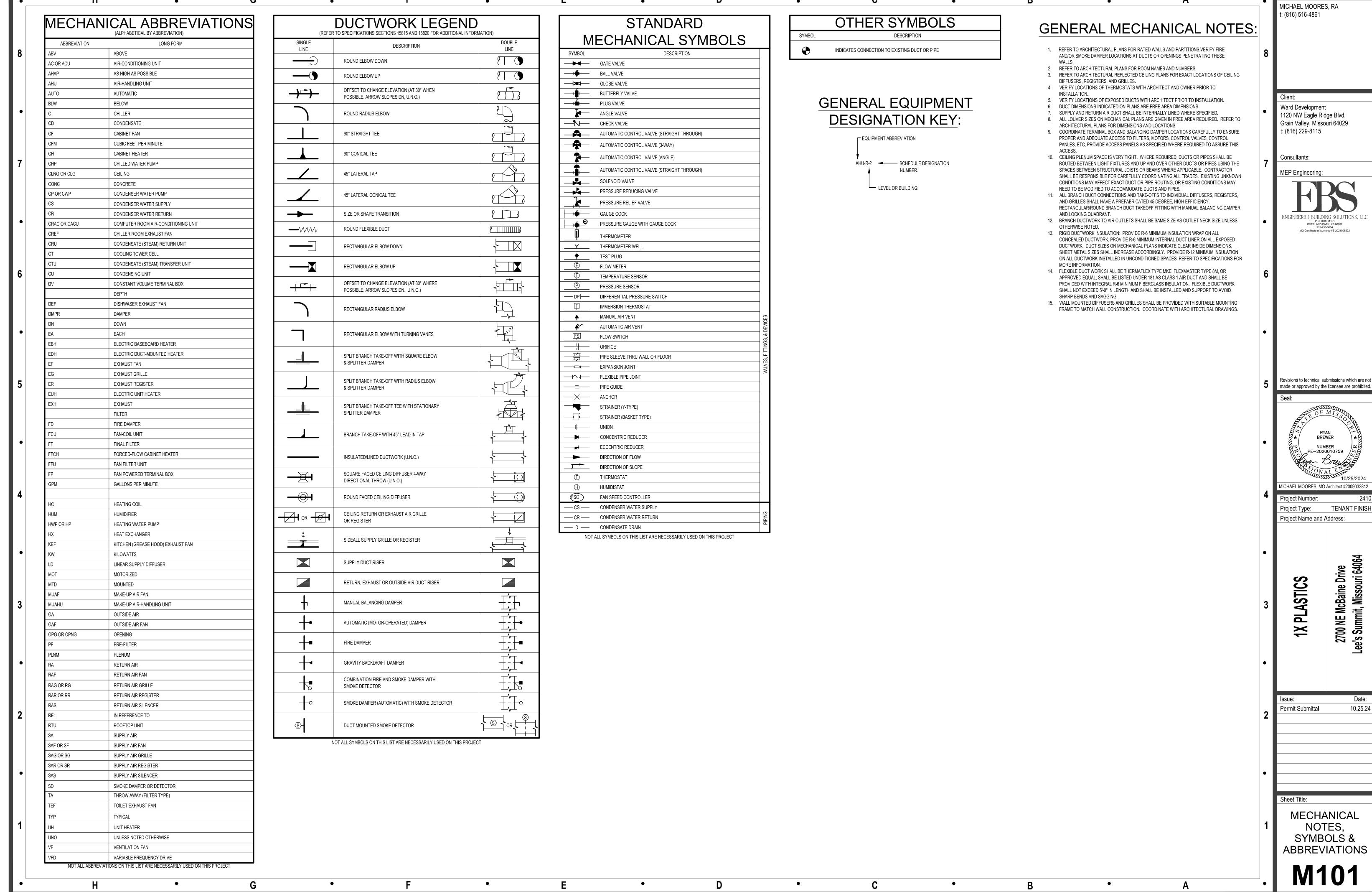
• H • G	• F •	E	• D	•	С	• B	• A	Architect: 11/18  MICHAEL MOORES, RA t: (816) 516-4861
DOOR AND FRAME LEGEND  DOOR MATERIAL DESCRIPTION	HARDWARE SETS	DOOR SCH	<b>EDULE</b> FRAME	DETAILS - (SEE	E SHEET A-003) KEY NOT	ES / COMMENTS	DOOR NOTES	1. (010) 010 4001
WD PAINT-GRADE FLUSH / SLAB SOLID CORE WOOD DOOR.  HM HOLLOW METAL - 18 GAUGE COLD ROLLED STEEL / POLYSTYRENE FOAM CORE (CLASSIFICATION SD1 - LEVEL 2 - MODEL 1) 1 3/4"	1-KEYED (INTERIOR AND EXTERIOR) CYLINDER LOCK WITH LOCKED INDICATOR ALL ELSE IS EXISTING TO REMAIN 3-HINGES	NO. TYPE SIZE  101A B 1 3/4" X 3'-0" X 7'-0" (ET	MATERIAL PUSH FINISH PULL FINISH MATERIAL	PUSH FINISH HEAD JAMB ANOD ANOD	HAPD	ES/COMMENTS	DOORS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:  1. ALL DOOR HANDLES TO BE LEVER TYPE.	8
AL ALUMINUM  ETR EXISTING TO REMAIN	1-LEVER-HANDLE OFFICE FUNCTION LOCKSET 1-WALL STOP	1 3/4" X 3'-0" X 7'-0"	WD PNT PNT HM	PNT PNT - H2/A-00	- 2		2. EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.	Client:
FRAME MATERIAL DESCRIPTION	3-HINGES 1-LEVER-HANDLE CLASSROOM FUNCTION LOCKSET 1-CLOSER 1-WALL STOP	1 3/4" X 3'-0" X 7'-0"	WD PNT PNT HM	PNT PNT - H2/A-00			3. PROVIDE DOOR STOPS OF APPROPRIATE TYPE FOR ALL INTERIOR DOORS, MATCH ADJACENT HARDWARE FINISH.	Ward Development 1120 NW Eagle Ridge Blvd. Grain Valley, Missouri 64029
WD WOOD  HM HOLLOW METAL - 16 GAUGE COLD ROLLED STEEL	3-HINGES 1-LEVER-HANDLE PRIVACY FUNCTION LOCKSET	103 A 1 3/4" X 3'-0" X 7'-0"  104 A 1 3/4" X 3'-0" X 7'-0"	WD PNT PNT HM  WD PNT PNT HM	PNT PNT - H2/A-00			4. DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN	t: (816) 229-8115
7 AL ALUMINUM	1-WALL STOP  5 EXISTING TO REMAIN	106 A 1 3/4" X 3'-0" X 7'-0"		PNT PNT - H2/A-00			POSITION OF 12 DEGREES WILL BE 5 SECONDS MINIMUM.	7 Consultants:
ETR EXISTING TO REMAIN		1 3/4" X 3'-0" X 7'-0"	WD PNT PNT HM	PNT PNT - H2/A-00	- 3		5. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 8 1/2 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO	MEP Engineering:  EBS  ENGINEERED BUILDING SYSTE
DOOR TYPES		1 3/4" X 3'-0" X 7'-0"	WD PNT PNT HM	PNT PNT - H2/A-00	- 4		HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS.	t: (913) 735-5654
		109 A 1 3/4" X 3'-0" X 7'-0"		PNT PNT - H2/A-00			WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MAXIMUM ALLOWABLE BY THE	•
		110A A 1 3/4" X 3'-0" X 7'-0" (ET			- (5) A (5) A.		APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS.  6. THE BOTTOM 10" OF ALL DOORS EXCEPT	
		KEY NOTES:			-   O   A.		AUTOMATIC DOORS, POWER ASSISTED DOORS, AND SLIDING DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST	6
			DOOR TO REMAIN E THIS DOOR THAT READS, "THIS DOOR TO HEN THIS SPACE IS OCCUPIED"				WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.	
							7. EXIT DOORS IN ASSEMBLY AND EDUCATION OCCUPANCIES SERVING AN OCCUPANT LOAD OF 50 OR MORE SHALL BE EQUIPPED WITH PANIC HARDWARE, WITH THE EXCEPTION BELOW (NOTE 8).	•
TYPE 'A' TYPE 'B'							8. MAIN EXIT DOORS HAVING KEY-OPERATED LOCKING DEVICES ON THE EGRESS SIDE IN GROUP A OCCUPANCIES (SERVING 300 OCCUPANTS OR	
	MATERIAL LEGEND		ISH SCHEDULE  FLOOR BASE WALL FINISH V	/ALL FINISH   WALL FINISH   WALL	FINISH CEILING		LESS), GROUPS B, F, M, S, AND PLACES OF RELIGIOUS WORSHIP SHALL HAVE DURABLE SIGNAGE ABOVE THE DOOR IN 1" HIGH LETTERS ON	■ Revisions to technical submissions which a
5	HM HOLLOW METAL	ROOM NUMBER ROOM NAME  101 RECEPTION	FLOOR BASE WALL FINISH (NORTH)  CPT RCB PNT	(EAST) (SOUTH) (WE	EST) MATERIAL FINISH  NT ACT -	COMMENT KEY NOTES	CONTRASTING BACKGROUND STATING: "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED". LOCKING DEVICES SHALL BE READILY DISTINGUISHABLE AS LOCKED.	made or approved by the licensee are prohi
	WD WOOD (PAINT GRADE, SOLID CORE SLAB DOOR)	102 OFFICE 103 OFFICE	CPT RCB PNT CPT RCB PNT		NT ACT - NT ACT -		9. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN THE PATH OF	MICHAEL E
•	STL STEEL  RCB 4" RUBBER COVE BASE	104 OFFICE 105 BREAK ROOM	CPT RCB PNT LVT RCB PNT		NT ACT - NT ACT -		TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE	MOORES NUMBER
	PNT PAINT  EXP EXPOSED TO STRUCTURE	106 HALL 107 HALL	CPT RCB PNT CPT RCB PNT		NT ACT - NT ACT -		WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. LOCKABLE EXIT DOORS SHALL OPERATE AS ABOVE IN EGRESS DIRECTION.	A-2009032812  PRCHITECT CONTROL
4	AL ALUMINUM	108 MEN 109 WOMEN	LVT RCB PNT LVT RCB PNT		NT ACT - NT ACT -	1. 1.	10. HAND-ACTIVATED DOOR OPENING HARDWARE TO BE CENTERED BETWEEN 34" AND 44" ABOVE THE FLOOR.	10.25.24  MICHAEL MOORES, MO Architect #2009032
	ANOD ANODIZED - MATCH EXISTING  SC SEALED CONCRETE	110 PRODUCTION AREA COMMENTS:	- RCB PNT	PNT PNT	- EXP	1, 2.	11. EVERY DOORWAY WHICH IS LOCATED WITHIN AN ACCESSIBLE PATH OF TRAVEL SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT	Project Number:  Project Type: TENANT FIT  Project Name and Address:
	GYP GYPSUM BOARD		RVICE SINKS, URINALS, AND WATER CLOSETS M B AT THE OUTSIDE WALLS OF THE OFFICE. PAIN		PAINT UP TO A MINIMUM OF 4' A.F.F.		LESS THAN 3'-0" IN WIDTH AND NOT LESS THAN 6'-8" IN HEIGHT. WHEN INSTALLED, EXIT DOORS SHALL BE CAPABLE OF OPENING SO THAT THE CLEAR WIDTH OF THE EXIT IS NOT LESS THAT 32",	1 Toject Name and Address.
•	ACT ACOUSTIC CEILING TILE  LVT LUXURY VINYL TILE	<b>j</b>					MEASURED BETWEEN THE FACE OF THE OPENED DOOR AND THE OPPOSITE STOP.  12. MINIMUM MANEUVERING CLEARANCES AT DOORS	• Ive
	CONC CONCRETE						SHALL BE AS REQUIRED BY THE ICC/ANSI A117.1 ACCESSIBILITY CODE. THE FLOOR OR GROUND AREA WITHIN THE REQUIRED CLEARANCES SHALL	
3							BE LEVEL AND CLEAR. THE FLOOR OR LANDING SHALL BE NOT MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY.	AST McBail
No. of the second secon	_						13. DOORS SHALL NOT PROJECT MORE THAN 7" INTO THE REQUIRED CORRIDOR WIDTH WHEN FULLY OPENED OR MORE THAN ONE HALF INTO THE REQUIRED WIDTH WHEN IN ANY POSITION.	1X PL 700 NE
F.R.T. 2x4 SUB FRAME - AS REQUIRED							14. WHERE A PAIR OF DOORS IS UTILIZED, AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32" WITH THE	1X 2700 1 ee's Su
	_						LEAF POSITIONED AT AN ANGLE OF 90° FROM ITS CLOSED POSITION.	
							15. EXIT DOORS SHALL SWING IN THE DIRECTION OF EXIT TRAVEL WHEN SERVING 50 OR MORE OCCUPANTS.	Issue: Da Permit Submittal 10.2
2							16. COORDINATE ALL DOOR HARDWARE WITH THE OWNER TO ENSURE THE MANUFACTURER, FUNCTIONS, MODELS, AND KEYING SYSTEMS MEET THE OWNER'S STANDARD REQUIREMENTS.	2 Fermit Submittal 10.2
H2 HOLLOW METAL JAMB DETAILS  SCALE: 3" = 1'-0"							THE STATES STANDARD REGUINEWENTS.	
								•
								Sheet Title:
								DOOR / WINDOW
								FINISH SCHEDULE AND NOTES
								A-005
• H • G	• F •	E	• D	•	C	• B	• A	

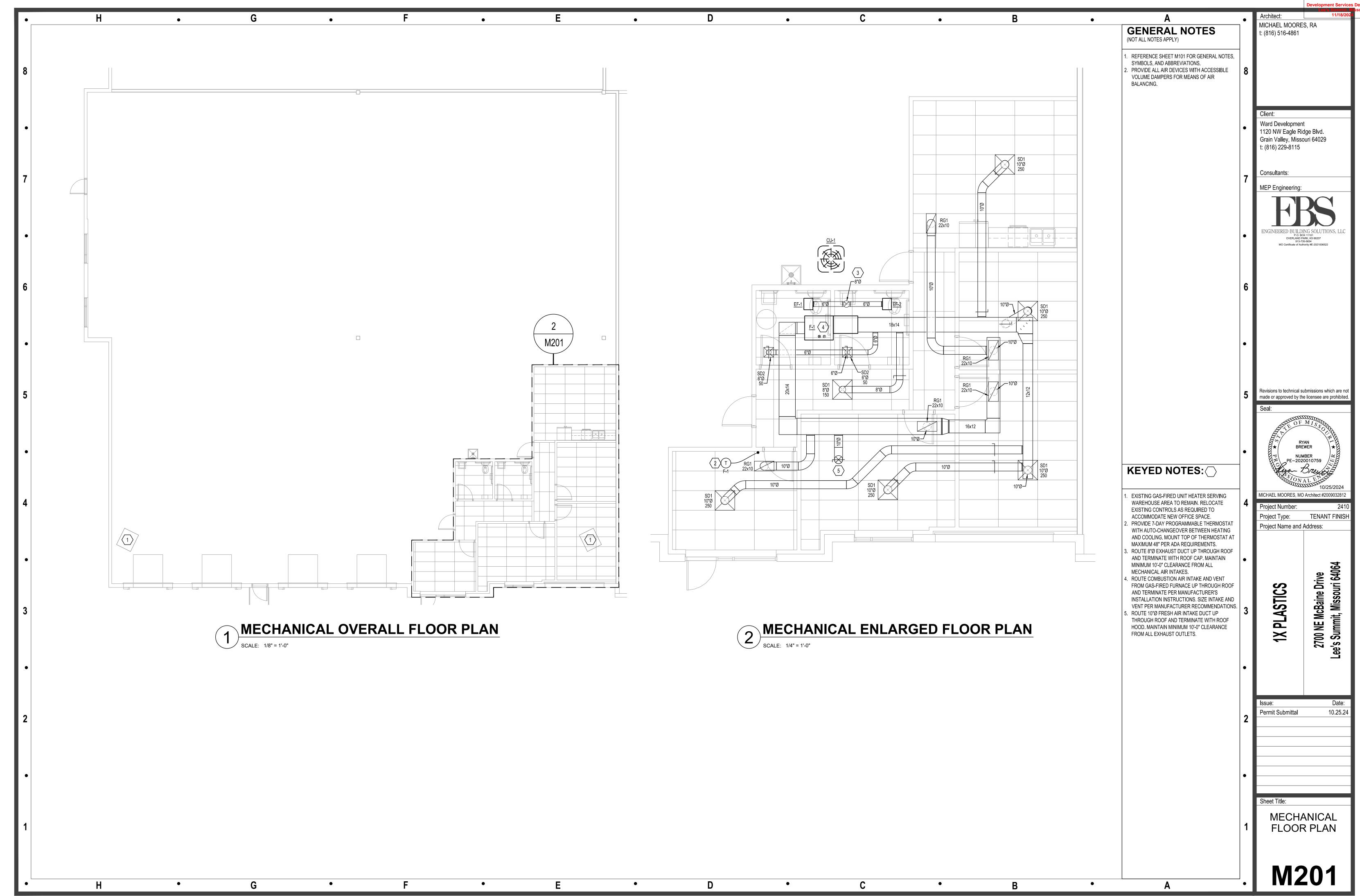


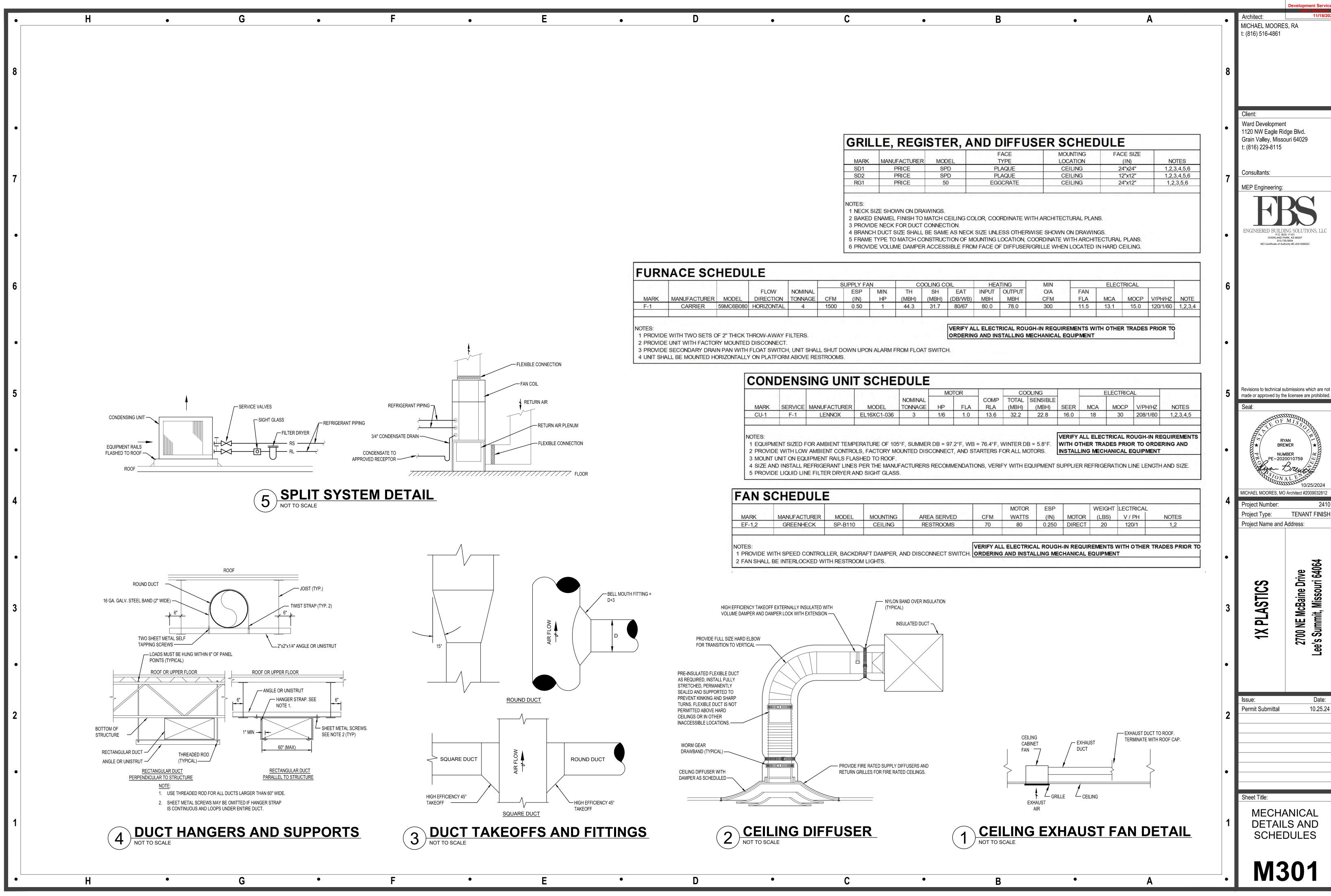


Architect:

Development Services Department
Lee's Summit, Missouri
11/18/2024







CONTRACT IS ISSUED, NO ADDITIONAL COST DUE TO CODE ISSUES SHALL BE REIMBURSED

# LICENSES, PERMITS, COMMISSIONING, INSPECTIONS & FEES

OBTAIN AND PAY FOR ALL LICENSES, PERMITS, COMMISSIONING, INSPECTIONS, AND FEES REQUIRED OR RELATED TO THIS WORK.

PROVIDE TO THE OWNER-ARCHITECT A COMMISSIONING PLAN, PRELIMINARY COMMISSIONING REPORT, FINAL COMMISSIONING REPORT, AND CERTIFICATES OF INSPECTION AND FINAL INSPECTION APPROVAL AT COMPLETION OF PROJECT.

# TRADE NAMES, MANUFACTURERS AND SHOP DRAWINGS

WHERE TRADE NAMES AND MANUFACTURERS ARE USED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THE EXACT EQUIPMENT SHALL BE USED AS A MINIMUM FOR THE BASE BID. MANUFACTURERS CONSIDERED AS AN EQUAL OR BETTER IN ALL ASPECTS TO THAT SPECIFIED WILL BE SUBJECT TO APPROVAL IN WRITING BY ARCHITECT-ENGINEER PRIOR TO BID THROUGH SHOP DRAWING SUBMITTAL PROCESS, FOR ACCEPTANCE PRIOR TO INSTALLATION. ANY CHANGES TO ELECTRICAL SERVICE, STRUCTURAL FRAMING, ETC. OR ANY OTHER MODIFICATION THAT IS REQUIRED BY THE USE OF ALTERNATE EQUIPMENT SHALL BE COORDINATED WITH OTHER TRADES AND SHALL INCLUDE ALL COSTS IN BID FOR THE REQUIRED CHANGES. THE USE THE USE OF ANY UNAUTHORIZED EQUIPMENT SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT NO EXPENSE TO THE OWNER.

GUARANTEE ALL MATERIALS AND WORK PROVIDED UNDER THIS CONTRACT AND MAKE GOOD, REPAIR OR REPLACE AT NO EXPENSE TO THE OWNER, ANY DEFECTIVE WORK, MATERIAL, OR EQUIPMENT WHICH MAY BE DISCOVERED WITHIN A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE (IN WRITING) OF THE INSTALLATION. EXTENDED WARRANTIES ARE AS SPECIFIED WITH INDIVIDUAL EQUIPMENT.

## **QUALITY ASSURANCE**

INDUSTRY STANDARDS AND CODES: UNLESS MODIFIED BY THESE SPECIFICATIONS, THE DESIGN, MANUFACTURER, TESTING AND METHOD OF INSTALLING ALL MATERIALS, APPARATUS AND EQUIPMENT SHALL CONFORM TO THE FOLLOWING:

- 1. ARI CODE FOR REFRIGERATION APPARATUS
- 2. ANSI B9.1 SAFETY CODE FOR MECHANICAL REFRIGERATION 3. STANDARDS OF NATIONAL FIRE PROTECTION ASSOCIATION
- SMACNA 5. ASHRAE

MASONRY PARTITIONS, THROUGH SUSPENDED CEILINGS, OR FOR CONCEALED VERTICAL PIPING, SLEEVES SHALL BE NO. 22 U.S.G. GALVANIZED STEEL MINIMUM.

HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL SUCH AS ANGLE IRON, BANDS, C-CLAMPS WITH RETAINING CLIPS, CHANNELS, HANGER RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK.

HANGERS SHALL BE FASTENED TO BUILDING STEEL, CONCRETE, OR MASONRY, BUT NOT TO PIPING. HANGING FROM METAL DECK IS NOT PERMITTED. HANGERS MUST BE ATTACHED TO UPPER CHORD OF BAR JOIST, WHERE INTERFERENCES OCCUR, AND IN ORDER TO SUPPORT DUCTWORK OR PIPING, INSTALL TRAPEZE TYPE HANGERS OR SUPPORTS WHICH SHALL BE LOCATED WHERE THEY DO NOT INTERFERE WITH ACCESS TO FIRE DAMPERS, VALVES, AND OTHER EQUIPMENT. HANGER TYPES AND INSTALLATION METHODS ARE ALSO SUBJECT TO LANDLORD CRITERIA.

HANGERS FOR ALL INSULATED PIPING SHALL BE SIZED AND INSTALLED FOR THE OUTER DIAMETER OF INSULATION. INSTALL 6" LONG SPLIT CIRCLE GALVANIZED SADDLE BETWEEN THE HANGER AND THE PIPE INSULATION.

HANGERS AND PIPING OF DISSIMILAR METALS SHALL BE DI-ELECTRICALLY SEPARATED.

PROVIDE SWAY AND SEISMIC BRACING WHERE REQUIRED BY CODE.

ROTECT MATERIALS, APPARATUS AND EQUIPMENT FROM DAMAGE, MOISTURE, DIRT, DEBRIS AND WORK OF OTHER TRADES.

## OPERATION MANUALS AND INSTRUCTIONS

PROVIDE OPERATING AND MAINTENANCE INSTRUCTIONS AT THE COMPLETION OF THE PROJECT. SUBMIT THREE HARD BOUND COPIES TO ARCHITECT.

SCHEDULE A MEETING WITH THE OWNER'S REPRESENTATIVE AT THE SITE TO PROVIDE DETAILED INFORMATION ON THE OPERATING AND MAINTENANCE OF EQUIPMENT.

SUBMIT WITHIN THIRTY (30) DAYS AFTER THE DATE OF NOTICE TO PROCEED AND BEFORE PURCHASING ANY MATERIALS OR EQUIPMENT, SUBMIT TO THE ARCHITECT FOR REVIEW, A COMPLETE LIST, IN SIX (6) COPIES, OF ALL MATERIALS INCORPORATED IN THE WORK. THIS LISTING SHALL BE ARRANGED BY THE ORDER OF OCCURRENCE IN THE SPECIFICATIONS, FOLLOWED BY THE ITEMS ON THE DRAWING NOT SPECIFICALLY INCLUDED IN THE

WORK OF OTHER TRADES. WHERE THE WORK IS DEPENDENT UPON WORK OF OTHER TRADES OR WORK ALREADY IN PLACE, SUCH OTHER WORK AND WORK IN PLACE SHALL BE EXAMINED AND SHALL BE IN PROPER CONDITION AND STATE OF COMPLETION BEFORE CONTINUING THE INSTALLATION. THE INSTALLATION OF WORK SHALL, IN GENERAL, BE AS HIGH AS POSSIBLE AND LOCATED IN ACCORDANCE WITH THE DRAWINGS. DUCTWORK INDICATED SHALL BE FOLLOWED AS ACCURATELY AS POSSIBLE. ANY NECESSARY DEVIATIONS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT-ENGINEER. PROVIDE DRAWINGS SHOWING PROPOSED CHANGES. APPROVAL IS REQUIRED BEFORE CHANGES SHALL TAKE EFFECT.

# LAYOUT OPENINGS FOR CUTTING BY OTHER TRADES AS REQUIRED. CUTTING OF STEEL.

CONCRETE OR ANY OTHER STRUCTURAL PART MUST BE APPROVED IN WRITING BY ARCHITECT-ENGINEER PRIOR TO CUTTING.

DO NOT CUT OR PENETRATE WATERPROOFED SURFACES, OR WATERPROOFING MEMBRANES, WITHOUT FIRST MAKING ARRANGEMENTS FOR REPAIR BY A METHOD APPROVED BY ARCHITECT-ENGINEER.

PROVIDE ALL NECESSARY FLASHING AND COUNTERFLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THIS BUILDING AS REQUIRED BY THE INSTALLATION OR REMOVAL OF PIPES, DUCTS, LOUVERS, CONDUIT, AND EQUIPMENT. PROVIDE EQUIPMENT

# CURBS AND DUNNAGE STEEL AS REQUIRED.

POWER WIRING FROM PANELS TO MOTOR CONTROLLERS AND FROM CONTROLLERS TO MOTORS IS SPECIFIED IN DIVISION 16. MOTOR STARTERS NOT SPECIFIED TO BE FURNISHED WITH THE MOTORS FROM THE FACTORY ARE SPECIFIED IN DIVISION 16. SUBMIT WIRING DIAGRAMS FOR APPROVAL AND FURNISH APPROVED DIAGRAMS TO THE ELECTRICAL CONTRACTOR FOR COORDINATION. ELECTRICAL CONTROL WIRING FOR CONNECTION OF TEMPERATURE CONTROLLERS, PUSH BUTTONS, INTERLOCKS IN MOTOR CONTROLLERS, AND LIKE ITEMS IS SPECIFIED IN THE CONTROL SECTION(S) IN THIS DIVISION. FURNISH ALL EQUIPMENT WITH COMPLETE INTERNAL CONTROL WIRING. ELECTRICAL WORK SPECIFIED IN THIS DIVISION SHALL CONFORM TO APPLICABLE PROVISIONS OF DIVISION 16. ALL CONTROL WIRING SHALL BE IN CONDUIT. PROVIDE MOTORS CONFORMING TO CHARACTERISTICS SHOWN ON ELECTRICAL DRAWINGS.

PROVIDE ACCESS REQUIRED FOR MAINTENANCE, ADJUSTMENT, REMOVAL AND REPAIR OF VALVES, CONTROLS, DAMPERS, EQUIPMENT AND LIKE ITEMS. PROVIDE ACCESS DOORS (ACCESS PANELS) CONFORMING TO REQUIREMENTS OF DIVISION 8 SPECIFICATIONS. PANELS SHALL BE LOCATED TO MAKE ALL ITEMS EASILY ACCESSIBLE.

ADHESIVE SHALL BE FOSTER'S 85-20. STUDWELD PINS SHALL BE SEALED WITH FOSTER'S 30-36 ADHESIVE. ALL JOINTS, SEAMS AND BREAKS IN THE VAPOR BARRIER SHALL BE SEALED WITH FOSTER'S 35-00, REINFORCED WITH 4 INCH WIDE GLASS FABRIC.

ACCESS PANELS, INTEGRAL DUCT CONNECTION FLANGES, BALL BEARING MOTORS, AND CORROSION RESISTANT FASTENERS. FAN SHALL COME INSTALLED WITH NEMA-1 TOGGLE SWITCH, MOUNTED AND WIRED. SOLID STATE SPEED CONTROLLER SHIPPED LOOSE AND PSC MOTOR.

## DUCTWORK, LOW PRESSURE, GALVANIZED STEEL

DUCTS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH "HVAC DUCT CONSTRUCTION STANDARDS" PUBLISHED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC. (SMACNA)

NSPECT THE DRAWINGS AND VERIFY EXISTING CONDITIONS IN THE FIELD. REPORT CONFLICTS BEFORE STARTING FABRICATION.

WEIGHTS AND GAGES SHALL BE IN ACCORDANCE WITH TABLE I OF "HVAC DUCT

## CONSTRUCTION STANDARDS" PUBLISHED BY SMACNA. DUCT MATERIAL SHALL BE GALVANIZED STEEL.

DIMENSIONS SUFFICIENT TO CLOSE OFF AIR TO BRANCH. PROVIDE VENTLOK NO. 607 END BEARINGS AND VENTLOK NO. 690 DAMPER ASSEMBLY.

SPLITTERS SHALL BE 18 GAGE GALVANIZED STEEL WITH HORIZONTAL AND VERTICAL

VOLUME DAMPERS SHALL BE 18 GAGE STEEL; SINGLE BLADE UP TO 8" X 8", OPPOSED BLADE ON ALL DUCTS OVER 8" X 8". PROVIDE VENTLOK NO. 607 END BEARINGS AND VENTLOK NO. 641 SELF-LOCKING REGULATOR. DAMPER RODS SHALL BE 1/2" SQUARE BARS WITH BLADES SECURELY RIVETED TO BAR.

# SQUARE AND RECTANGULAR ELBOWS SHALL CONTAIN TITUS NO. AG-225 TURNING VANES.

IN ACCORDANCE WITH CHAPTER IV OF SMACNA.

FROM CARTONS WHERE IT MAY HAVE BEEN SHIPPED IN A COMPRESSED STATE. USE THE MINIMUM LENGTH OF FLEXIBLE DUCT REQUIRED TO MAKE THE SPECIFIC CONNECTION UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. THE MAXIMUM DEVELOPED LENGTH OF FLEX DUCT IS 5'-0". AVOID SHARP BENDS. USE A MINIMUM INSIDE BEND RADIUS EQUAL TO (1) TIMES THE INSIDE DIAMETER OF THE DUCT. SUPPORT HORIZONTAL DUCT RUNS AS DETAILED IN THE CONSTRUCTION DOCUMENTS. ALLOW THE FLEXIBLE DUCT TO EXTEND STRAIGHT AWAY FROM CONNECTORS FOR A FEW INCHES PRIOR TO INITIATING ANY BEND. MAKE CONNECTIONS OF FLEXIBLE DUCT TO RIGID DUCT OR TERMINALS AS

1. APPLY FOSTER'S 30-02 SEALANT TO THE INSIDE OF THE FLEXIBLE DUCT TO DEPTH OF

3 INCHES. 2. SLIDE THE FLEXIBLE DUCT OVER THE CONNECTOR AND WRAP WITH MINIMUM OF TWO REVOLUTIONS OF REINFORCED FOIL DUCT TAPE STARTING ABOUT 2 INCHES BACK FROM END OF FLEXIBLE DUCT AND SEALING OVERLAP WITH LAST WRAP. 3. PLACE A CLAMP OR STRAP OVER THE TAPED END AND SECURE FIRMLY.

4. REPAIR ALL DAMAGE TO VAPOR BARRIER WITH FOSTER'S 35-00 REINFORCED WITH 4

AIR DISTRIBUTION DEVICES

AIR DISTRIBUTION DEVICES SHALL BE PROVIDED TO DELIVER THE INDICATED VOLUME OF SUPPLY AIR WITHOUT EXCEEDING THE NC RATING AS FOLLOWS: EMPLOYEE AND CUSTOMER AREAS: NC-30.

INCH WIDE GLASS FABRIC AND A SECOND COAT OF FOSTER'S 35-00.

# DIFFUSERS. GRILLES AND REGISTERS

MANUFACTURER SHALL BE TITUS OR APPROVED EQUIVALENT. FOR MODEL NUMBERS AND TYPES SEE AIR DISTRIBUTION SCHEDULE ON DRAWING. DIFFUSERS, GRILLES, AND REGISTERS SHALL BE OF THE SURFACE, FLUSH, OR LAY-IN MOUNTING CORRESPONDING TO THE CEILING IN WHICH THEY ARE LOCATED. THE FINISH OF THE DIFFUSERS, GRILLE, OR REGISTER FACE PANEL SHALL BE BAKED ENAMEL, OFF WHITE COLOR, WHERE MOUNTING SCREWS ARE REQUIRED IN AIR DISTRIBUTION DEVICES, THEY SHALL BE FINISHED TO MATCH THE ADJACENT SURFACE OF THE DEVICES. SUPPLY AND RETURN GRILLES AND REGISTERS WHICH ARE SURFACE MOUNTED SHALL BE PROVIDED WITH SPONGE RUBBER GASKETED FRAMES TO PREVENT SMUDGING.

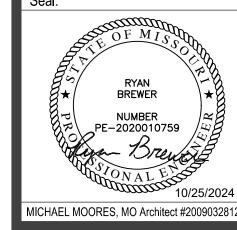
INSTALL WHERE SHOWN ON DRAWINGS. DIFFUSERS, REGISTERS AND FITTINGS SHALL BE SECURELY ATTACHED TO FINISH SURFACES, OR STRUCTURAL MEMBERS BEHIND FINISH SURFACES. LAY-IN DIFFUSERS MOUNTED IN ACOUSTICAL TILE CEILINGS SHALL BE RIGIDLY MOUNTED, ABOVE THE FACE PANEL, TO THE CEILING SUSPENSION SYSTEM. DRAINABLE LOUVERS SHALL BE INSTALLED AS RECOMMENDED BY MANUFACTURER.

# TESTING, ADJUSTING AND BALANCING

1120 NW Eagle Ridge Blvd. Grain Valley, Missouri 64029

ENGINEERED BUILDING SOLUTIONS, LL

made or approved by the licensee are prohibited



TENANT FINISH

**PLASTICS** 

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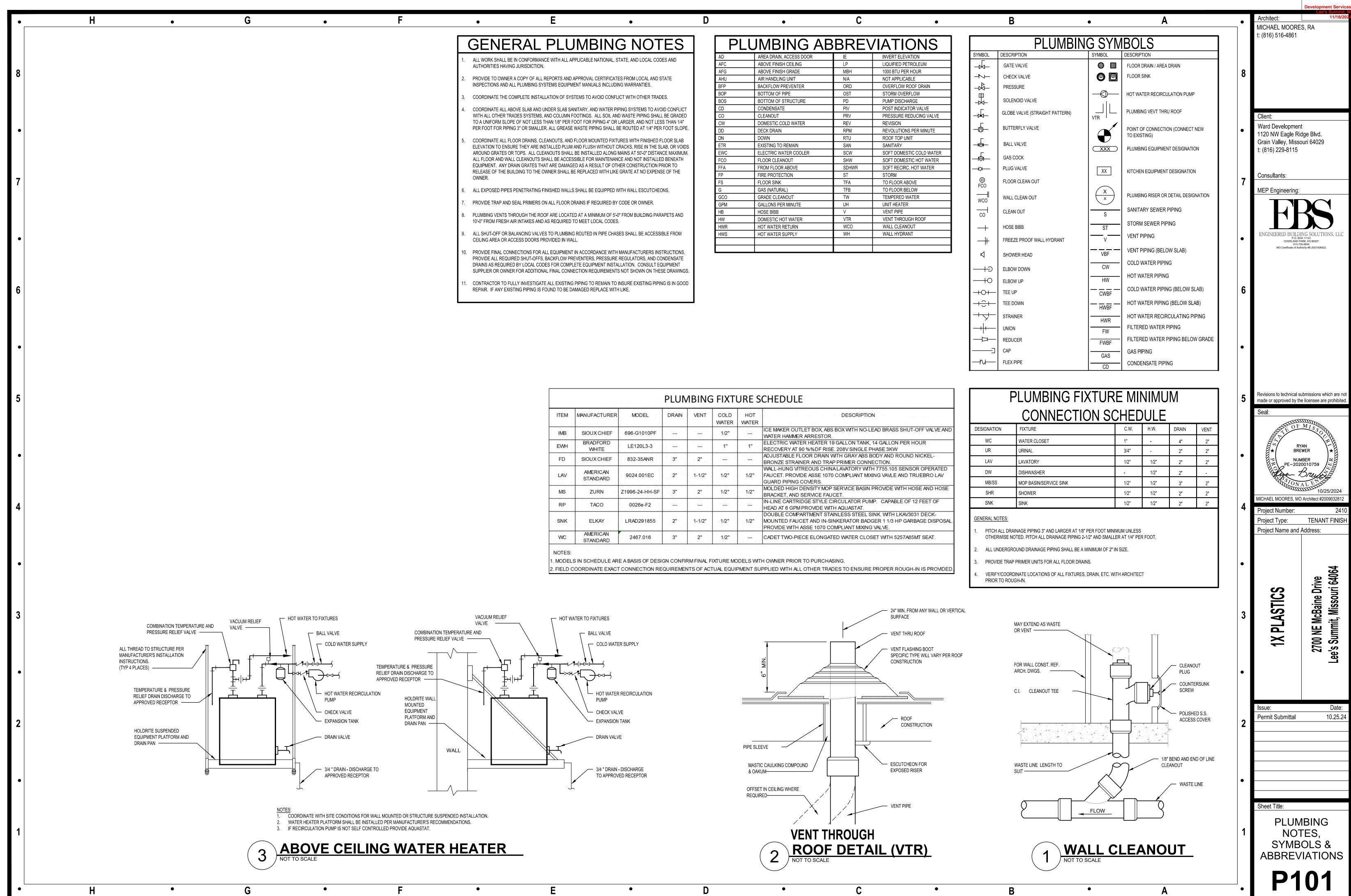
E McBaine Dri<sup>\*</sup> ımit, Missouri ( 2700 NE -ee's Summ

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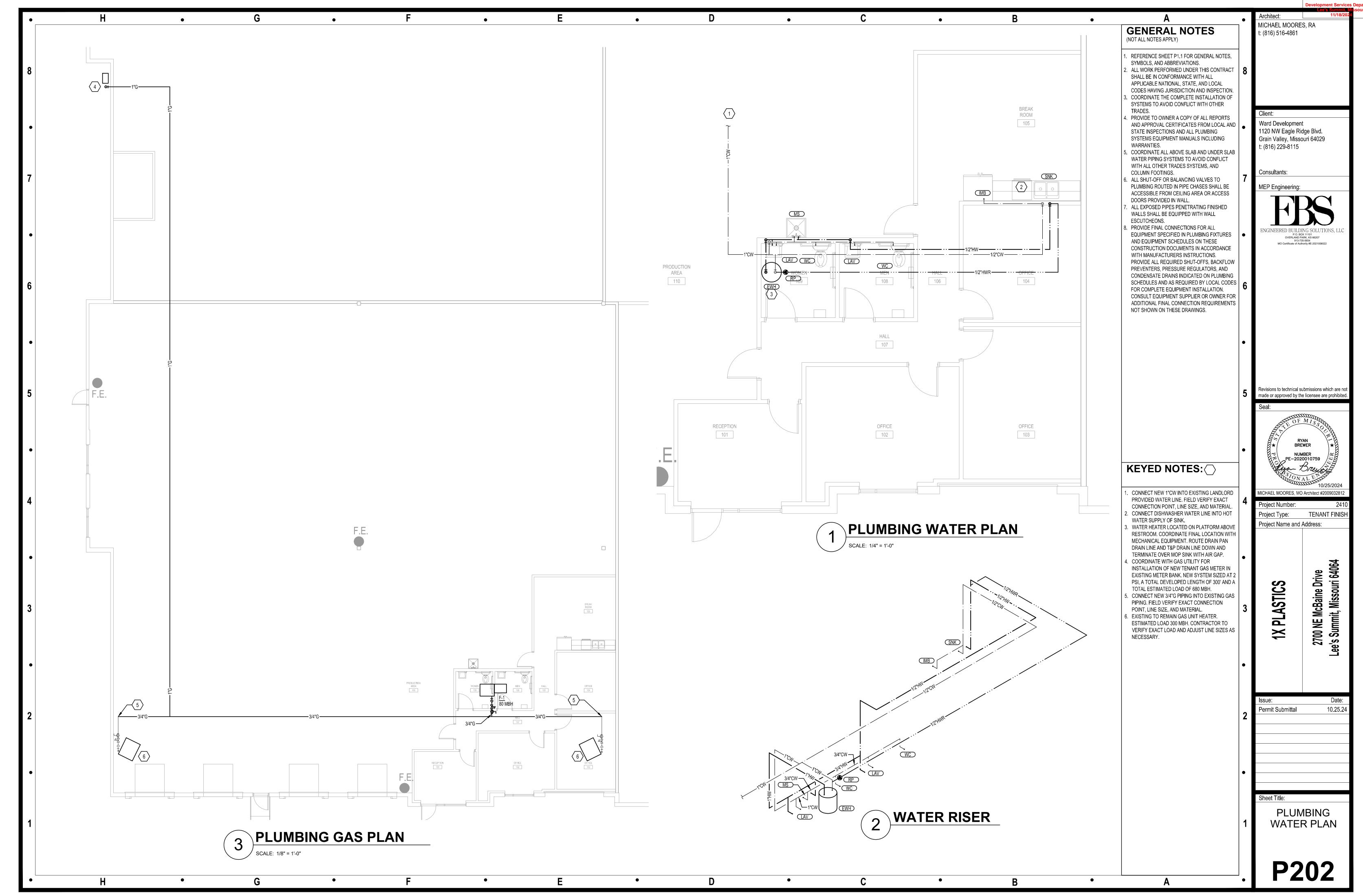
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SPECIFICATIONS

RELEASED FOR
CONSTRUCTION
As Noted on Plans Review



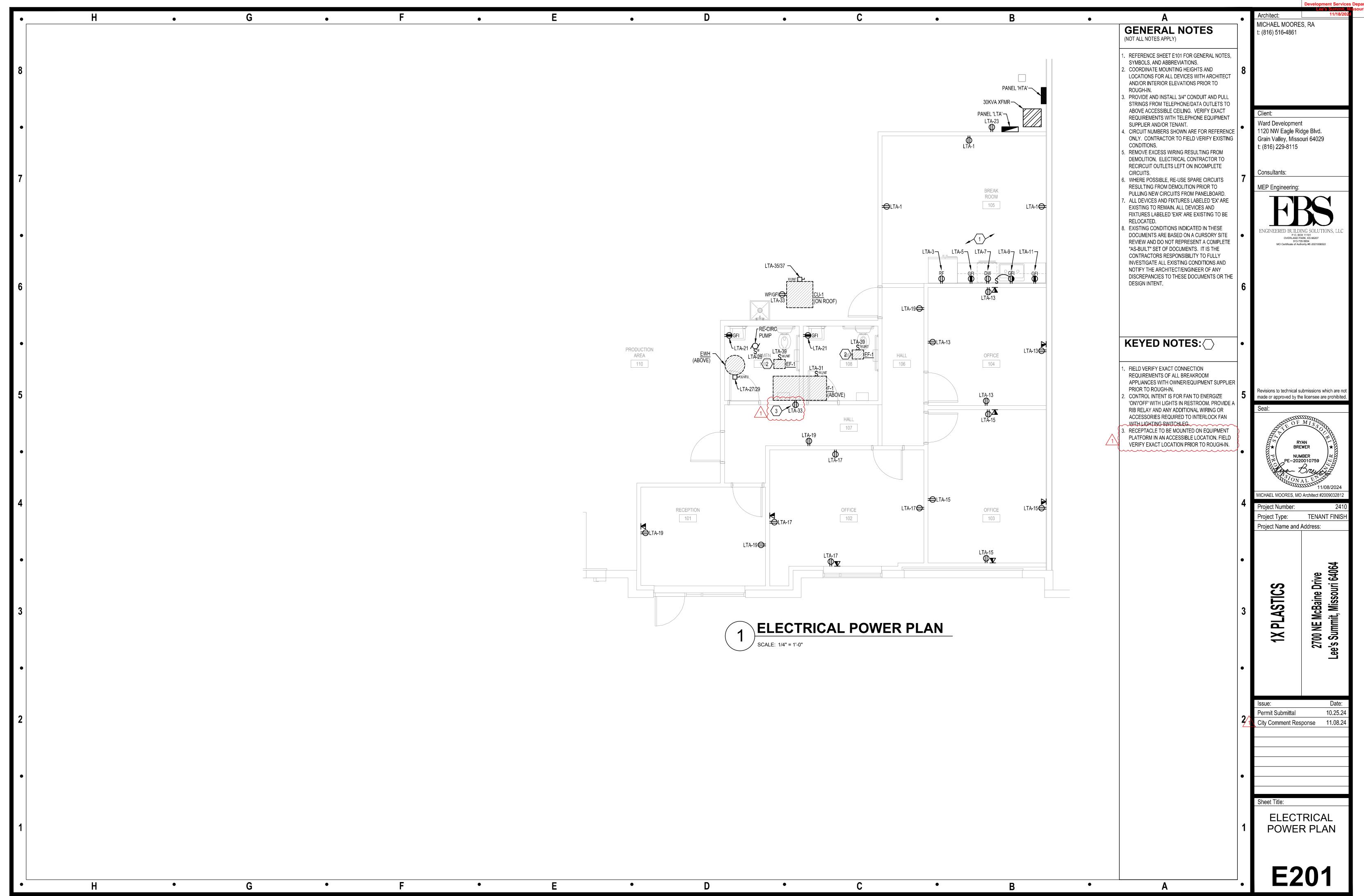


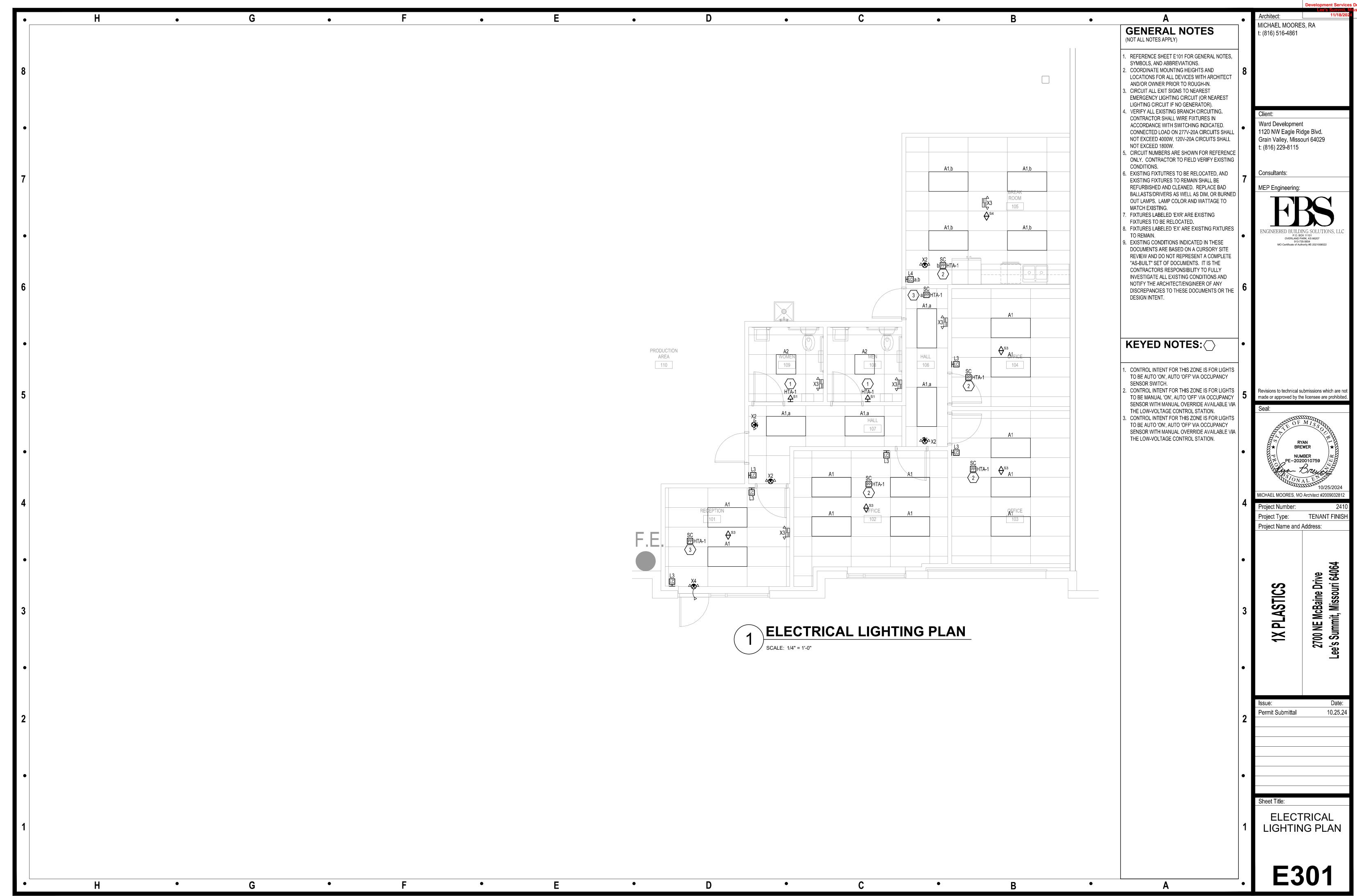


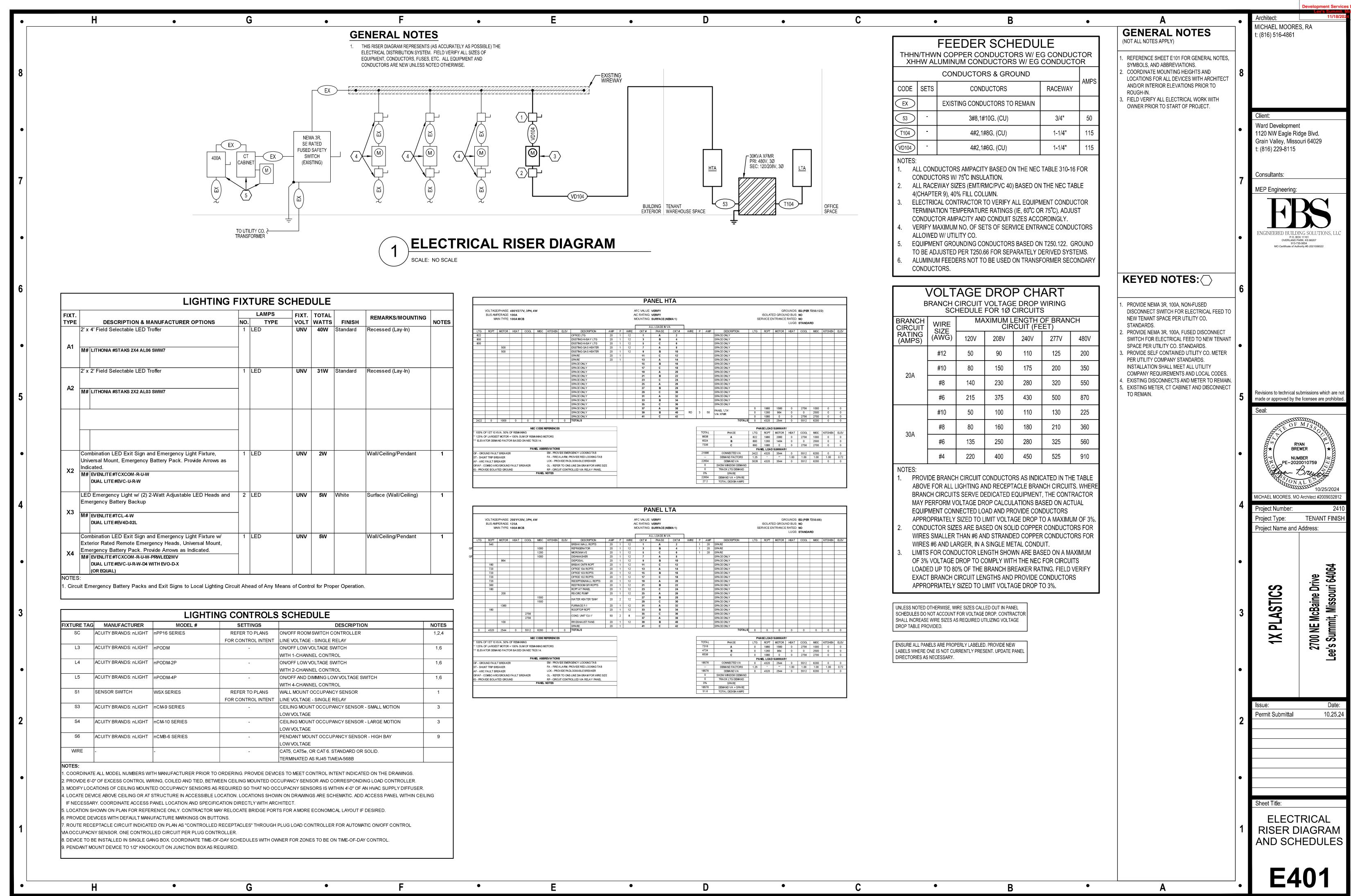
•	H • G	• F	• E •	D •	C • B	• A	Architect: 11/18/202  MICHAEL MOORES, RA
	15400 - PLUMBING WORK	ACCESS DOORS INSTALL AS REQUIRED FOR MAINTENANCE, ADJUSTMENT, REMOVAL AND REPAIR	ESCUTCHEONS PROVIDE FOR ALL PIPING THROUGH WALLS, FLOORS AND CEILING WERE PIPING IS	INSERTS: IN CONCRETE, GRINNELL MODEL NO. 285 OR APPROVED EQUAL, HAVING ADJUSTMENT FROM 3/4 INCH THROUGH 1-1/4 INCH. IN METAL DECKS READHEAD	INSTALLATION DRAIN SHALL BE INSTALLED WHERE SHOWN ON THE DRAWINGS; ACCESSIBLE AND	DOMESTIC WATER HEATING	t: (816) 516-4861
	DESCRIPTION ALL PLUMBING AND ASSOCIATED WORK IN DIVISION 15 IS GOVERNED BY THIS	OF VALVES, EQUIPMENT AND LIKE ITEMS. DOORS SHALL BE CONVENIENTLY LOCATED AND OF SUFFICIENT SIZE.	EXPOSED TO VIEW IN FINISHED AREA. ESCUTCHEONS SHALL BE CHROMIUM PLATED, TWO PIECE, HINGED WITH SET SCREW.	SD1 OR APPROVED EQUAL. POWDER PROPELLED PERMITTED IN NEW CONSTRUCTION WHERE TYPE AND LOCATION ARE APPROVED PRIOR TO	LOCATED TO SUIT EQUIPMENT APPROVED FOR INSTALLATION. WHERE FLUSH VALVES ARE SPECIFIED WITH FIXTURES, THE SUPPLY TO THE VALVE IN EACH	DESCRIPTION PROVIDE DOMESTIC WATER HEATING EQUIPMENT WHERE SHOWN ON DRAWINGS	
	SECTION. PROVIDE LABOR AND MATERIALS NECESSARY TO PROVIDE THE WORK AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. REFER TO OTHER	PIPING PROVISIONS FOR FIXTURES AND EQUIPMENT SPECIFIED IN OTHER	UNIONS	INSTALLATION. IN EXISTING CONSTRUCTION, START SLUGIN NO. 6800 SERIES OR APPROVED EQUAL.	ROOM SHALL BE AT THE SAME HEIGHT FOR THE TYPE OF FIXTURE AND THE VALVE SHALL BE SET IN PLACE SO THAT THE CENTER LINE OF THE VALVE DISCHARGE IS		
8	DIVISIONS FOR CONTINUATION OF EXTERIOR AND ALLIED WORK.	SECTIONS OR FURNISHED BY THE OWNER ROUGH IN LOCATIONS SHALL BE DETERMINED FOR SERVICES. PROVIDE ALL	PROVIDE GROUND JOINT BRASS UNIONS OR FLANGES ON EACH PIPING CONNECTION TO EQUIPMENT.	SIDE BEAM CLAMPS: PROVIDE WHEN SUPPORTING FROM STRUCTURAL STEEL	DIRECTLY ABOVE THE CENTER LINE OF FIXTURE STUD. BENDING OF NIPPLE BETWEEN THE VALVE AND THE STUD TO ACHIEVE CONNECTION WILL NOT BE	DISCHARGE PIPE RELIEF VALVE DISCHARGE SHALL BE COPPER WATER TUBE, TYPE M.	8
	QUALITY ASSURANCE OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS AND CONNECTION FEES	NECESSARY PLUMBING SERVICES, ACCESSIBLE VALVES ON PLUMBING BRANCHES AND MAKE ALL FINAL CONNECTIONS.	PROVIDE DIELECTRIC UNIONS BETWEEN COPPER AND STEEL PIPING CONNECTION	MEMBERS, GRINNELL, MODEL 225 OR APPROVED EQUAL.	PERMITTED.	INSTALLATION	
	REQUIRED BY GOVERNING BODIES IN CONNECTION WITH THE WORK. DELIVER CERTIFICATES OF INSPECTION TO THE OWNER'S REPRESENTATIVE. ALL WORK	PLUMBING OPERATION AND MAINTENANCE MANUALS	TO EQUIPMENT.	OTHER SUPPORTS: OBTAIN OWNER'S REPRENTATIVE APPROVAL FOR OTHER METHODS OF SUPPORT.	CHROME PLATED PIPING REQUIRING THE USE OF WRENCH SHALL BE PROTECTED FROM DAMAGE.	WATER HEATER SHALL BE INSTALLED WHERE SHOWN ON THE DRAWINGS.	
	SHALL COMPLY WITH GOVERNING CODES, ORDINANCES, AND REGULATIONS OF CITY, COUNTY AND STATE.	DESCRIPTION FURNISH TWO COPIES OF COMPLETE OPERATION AND MAINTENANCE MANUALS	VACUUM BREAKERS SHALL CONFORM TO THE REQUIREMENTS OF THE REFERENCED PLUMBING CODE AND SHALL BE PROVIDED FOR HOSE BIBBS, FLUSHOMETERS AND ANY FIXTURE OR	SPACING OF HANGERS PROVIDE HANGER AT EACH CHANGE OF DIRECTION.	BOLT WATER CLOSET CARRIER TO FLOOR.	DISCHARGE PIPE SHALL HAVE TERMINATING END CUT AT 45 DEGREE ANGLE.  TERMINATE RELIEF VALVE DRAIN AS SHOWN ON THE DRAWINGS.	Client: Ward Development
	SUBMITTALS SHOP DRAWINGS: SUBMIT MATERIALS, PRODUCTS, EQUIPMENT AND SYSTEMS AS	TO THE OWNER'S REPRESENTATIVE, FOR APPROVAL AND FOR THE OWNER, ON PLUMBING EQUIPMENT AND SPECIALTIES. THE MANUAL SHALL BE BOUND IN	EQUIPMENT WATER SUPPLY HAVING A THREADED OUTLET.	SPACE HANGERS AND SUPPORTS TO PREVENT SAGGING AND REDUCE STRAIN ON	GAS PIPING	TERMINATE RELIEF VALVE DRAIN AS SHOWN ON THE DRAWINGS.	1120 NW Eagle Ridge Blvd. Grain Valley, Missouri 64029
	SPECIFIED UNDER EACH PLUMBING SECTION IN THIS DIVISION IN ACCORDANCE WITH THE GENERAL CONDITIONS. SHOW PIPE SIZES, LOCATION, SLOPES OF	HARD-BACK, THREE-RING LOOSE-LEAF BINDERS.	FLASHING VENT FLASHING SHALL COMPLY WITH ROOFING MANUFACTURER'S WRITTEN	VALVES AND SPECIALTIES WITH SPACING NO GREATER AND ROD NO SMALLER THAN SHOWN ON THE FOLLOWING TABLE. HANGERS SHALL ALLOW FOR	PIPING SHALL COMPLY WITH THE REQUIREMENTS OF NFPA NO. 54 AND THE LOCAL GAS		t: (816) 229-8115
	HORIZONTAL RUNS, FITTINGS, VALVES, METERS, GAGES AND CONNECTIONS.	MANUAL CONTENTS TITLE SHEET WITH JOB NAME, AND THE NAMES, ADDRESSES AND PHONE	SPECIFICATIONS	EXPANSION AND CONTRACTION.	COMPANY.		
7	PRODUCT DATA: SUBMIT ON MATERIALS, FIXTURES, AND EQUIPMENT UNLESS OTHERWISE SPECIFIED OR ACKNOWLEDGED IN WRITING.	NUMBERS OF THE CONTRACTOR, SUBCONTRACTOR, CONTROL SUBCONTRACTOR, RELATED CONTRACTOR AND MATERIAL AND EQUIPMENT SUPPLIERS.	CLEANOUTS CLEANOUTS ON NO-HUB PIPE SHALL BE STANDARD NO-HUB FITTINGS.	FERROUS PIPING AND COPPER TUBING: DIAMETER OF PIPE MAXIMUM SPACING ROD SIZE	PIPE SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH MALLEABLE FITTINGS		7 Consultants:
	SAMPLES: SUBMIT WHEN SPECIFIED OR REQUESTED.	INDEX OF CONTENTS	CLEANOUTS ON CAST IRON HUB AND SPIGOT PIPING, SHALL BE CADMIUM PLATED. APPROVED MANUFACTURERS: ZURN, JOSAM OR JONESPEC.	1/2" THROUGH 1-1/2" 6 FT. 3/8" 2" THROUGH 3" 10 FT. 1/2"	INSTALLATION PIPING SHALL COMPLY WITH THE REQUIREMENTS OF NFPA NO. 54 AND THE LOCAL		MEP Engineering:
	RECORD DOCUMENTS	TYPEWRITTEN OPERATING INSTRUCTIONS FOR THE OWNER'S PERSONNEL DESCRIBING HOW TO OPERATE EACH PIECE OF EQUIPMENT, AND CAUTION AND	TRAP PRIMERS	4" THROUGH 5" 12 FT. 5/8" 6" AND LARGER 16 FT. 3/4" D.	GAS COMPANY.		
	REFER TO GENERAL CONDITIONS FOR REQUIREMENTS CONCERNING RECORD DOCUMENTS. ADDITIONAL REQUIREMENTS MAY BE SPECIFIED IN DIVISION 1.	WARNING NOTICES.	PROVIDE WHERE INDICATED ON DRAWINGS. PRECISION PRODUCTS WITH DISTRIBUTION UNIT OR APPROVED EQUAL.	CAST IRON PIPING: DIAMETER OF PIPE MAXIMUM SPACING ROD SIZE	INSTALL GAS SHUT-OFF AND GAS MANIFOLDS AS INDICATED OR REQUIRED.		
•	UNLESS SEPIAS OF THE DRAWINGS ARE TO BE FURNISHED BY THE ARCHITECT-ENGINEER FOR PREPARATION OF RECORD DRAWINGS, FURNISH	APPROVED SHOP DRAWINGS, PRODUCT DATA AND PARTS AND MAINTENANCE BOOKLET FOR EACH ITEM OF PLUMBING, EQUIPMENT SPECIFIED IN DIVISION 15.	PIPE SLEEVES	2" AND 3" EACH JOINT 3/8" 4" AND 5" EACH JOINT 1/2"	DOMESTIC HOT AND COLD WATER		ENGINEERED BUILDING SOLUTIONS, LLC P.O. BOX 11101 OVERLAND PARK, KS 66207 913-735-5654
	OWNER'S REPRESENTATIVE WITH TWO SETS OF ACCURATELY MARKED COPIES OF THE DRAWINGS, INSTEAD OF ONE SET AS REQUIRED BY THE GENERAL	COPIES OF CERTIFICATES OF INSPECTION, WHERE INSPECTION IS REQUIRED.	1. EXTEND SLEEVE 1/4 INCH BEYOND FINISHED SURFACE. 2. SET SLEEVE BEFORE POURING CONCRETE. 3. DEPONIES OF PARAMOER PETMEEN OF SET MEETING OF PETMEEN OF SET MEETING.	6" AND 8" EACH JOINT 3/4" 10" THROUGH 15" EACH JOINT 3/4" (TWO HANGERS)	DESCRIPTION THE WORK INCLUDES FURNISHING AND INSTALLING HOT AND COLD WATER PIPING		MO Certificate of Authority #E-2021006522
	CONDITIONS, INDICATING ALL CHANGES FROM ORIGINAL DRAWINGS AS INSTALLED.	GUARANTEES, INCLUDING EXTENDED GUARANTEES.  DELIVERY	<ol> <li>PROVIDE CLEARANCE BETWEEN SLEEVE AND PIPE OR BETWEEN SLEEVE AND INSULATION TO ALLOW FOR PIPE MOVEMENT DUE TO EXPANSION AND CONTRACTION.</li> </ol>	RISER CLAMPS INSTALL AT EACH LEVEL BELOW THE FLOOR. SUSPEND FROM TWO HANGER RODS	AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. PIPING		
	PRODUCT HANDLING PIPE, FIXTURES AND ACCESSORIES SHALL BE PROTECTED FROM DAMAGE IN	DELIVER THE MANUALS TO THE OWNER'S REPRESENTATIVE PRIOR TO SUBMITTING APPLICATION FOR FINAL PAYMENT.	4. INSULATION SHALL PASS CONTINUOUS THROUGH THE SLEEVE. 5. CAULK BETWEEN SLEEVE AND PIPE OR SLEEVE AND INSULATION.	AND INSERTS WHERE THE INSTALLATION OF ESCUTCHEON PLATES IS REQUIRED.	HOT AND COLD WATER PIPING SHALL BE COPPER WATER TUBE HARD TEMPER, TYPE "L" WITH WROUGHT SOLDER FITTINGS ABOVE FLOOR AND SOFT TEMPER		
6	SHIPMENT, HANDLING, STORAGE AND INSTALLATION: FROM MOISTURE, DIRT AND DEBRIS. PIPE, CLEANOUT AND FLOOR DRAIN OPENINGS SHALL BE TEMPORARILY	PLUMBING PIPING	PREFABRICATED, PRE-INSULATED, "PIPE SHIELDS" WILL BE ACCEPTABLE FOR PIPES PASSING THROUGH FLOORS. EXTERIOR WALLS. FIRE WALLS AND	TESTING OF PLUMBING PIPING	TYPE "K" WITH WROUGHT SOLDER FITTINGS BELOW GRADE.		6
	PLUGGED WITH TEST PLUGS UNTIL FINAL CONNECTIONS ARE MADE.	DESCRIPTION	FIRE RESISTIVE WALLS AND PARTIITONS.  6. ESCUTCHEONS: FIT AROUND INSULATION WHERE PRESENT. PROVIDE DEEP	DESCRIPTION CONDUCT ALL TESTS AFTER PIPING IS INSTALLED AND BEFORE PIPING IS	GATE VALVES SPECIFIED IN SECTION, PLUMBING VALVES.		
	GUARANTEE AND SERVICE REFER TO GENERAL CONDITIONS FOR GUARANTEE. WHERE EXTENDED	FURNISH AND INSTALL PLUMBING PIPING WHERE SHOWN ON DRAWINGS AND AS SPECIFIED.	ESCUTCHEON PLATES WHERE PIPE SLEEVES EXTEND ABOVE FLOORS.  7. WATER HAMMER ARRESTERS: INSTALL WHERE SHOWN ON DRAWINGS.	CONCEALED OR COVERED.	INSTALLATION		
	GUARANTEES ARE CALLED FOR, FURNISH THREE COPIES TO BE INSERTED INTO OPERATION AND MAINTENANCE MANUALS.	PIPING MATERIALS	8. CLEANOUTS: INSTALL WHERE SHOWN ON DRAWINGS AND AT BASE OF ALL RISERS. PROVIDE ADDITIONAL CLEANOUTS WHERE REQUIRED BY LOCAL	PROVIDE ALL NECESSARY TEMPORARY PIPING CLOSURES.	NOTCHING OF PIPE FOR CONNECTION NOT PERMITTED.		
	GENERAL	OPTIONS  1. CAST IRON HUBLESS SANITARY PIPE AND FITTINGS: CISPI STD. 301.	CODES AND FOR CONVENIENCE OF TESTING AND ERECTION AT CONTRACTOR'S OPTION.	PROVIDE ALL TESTING EQUIPMENT, MATERIALS AND SUPPLIES.	WHERE POSSIBILITY OF BACKFLOW FROM THE DRAIN TO THE SUPPLY FITTING EXISTS, INSTALL VACUUM BREAKERS.		
	PLUMBING SYSTEMS SHALL BE PROVIDED COMPLETE. SHOULD A SYSTEM, OR ANY PART THEREOF FAIL TO MEET PERFORMANCE REQUIREMENTS, NECESSARY	<ol> <li>CAST IRON SOIL PIPE AND FITTINGS, SERVICE WEIGHT: ASTM A 74.</li> <li>CAST IRON SOIL PIPE AND FITTINGS, EXTRA HEAVY WEIGHT: ASTM A 74.</li> </ol>	<ol> <li>FRAMES AND COVERS SHALL BE FLUSH WITH ADJOINING ARCHITECTURAL FINISH.</li> </ol>	SYSTEMS SHALL REMAIN UNDER TEST FOR SUFFICIENT LENGTH OF TIME TO PROVE TIGHTNESS THEREOF AND FOR ADEQUATE OBSERVATION BY THE	NOT MORE THAN ONE LAVATORY, SINK, OR SIMILAR FIXTURE SHALL BE SUPPLIED		
	REPLACEMENTS, ALTERATIONS OR REPAIRS, AS REQUIRED BY THE OWNER'S REPRESENTATIVE, SHALL BE MADE TO BRING PERFORMANCE UP TO SPECIFIED REQUIREMENTS AND ALL BUILDING CONSTRUCTION AND FINISHES DAMAGED OR	<ol> <li>STEEL PIPE: ASTM A 53.</li> <li>MALLEABLE IRON FITTINGS, 150 LB.: ASTM A 197.</li> <li>PIPE THREADS: ANSI B2.1.</li> </ol>	PLUMBING VALVES	ARCHITECT-ENGINEER.  MATERIALS OTHER THAN THOSE SPECIFIED FOR JOINING WILL NOT BE PERMITTED	BY A 1/2 INCH BRANCH. LINEAR DIMENSIONS NOT TO EXCEED 5 FEET.  MAKE CONNECTION TO EQUIPMENT AND FIXTURES INDICATED ON THE DRAWINGS		
5	MARRED BY SUCH REPLACEMENTS, ALTERATIONS OR REPAIRS SHALL BE RESTORED TO PRIOR CONDITION, AT NO ADDITIONAL COST TO THE OWNER.	7. NIPPLES, PIPE (THREADED): FED SPEC. WW-N-351.  8. COPPER WATER TUBE: ASTM B 88.	DESCRIPTION INSTALL IN ACCESSIBLE LOCATION.	IN THE PIPING SYSTEMS FOR THE PURPOSE OF STOPPING LEAKS.	OR SPECIFIED HEREIN.		Revisions to technical submissions which are not made or approved by the licensee are prohibited.
	WHERE MULTIPLE ITEMS OF EQUIPMENT OR MATERIALS ARE REQUIRED THEY	9. WROUGHT COPPER AND BRONZE SOLDER-JOINT PRESSURE FITTINGS: ANSI B16.29.	VALVES SHALL NOT BE INSTALLED WITH THE STEMS BELOW THE HORIZONTAL POSITION.	ALL LEAKS DISCLOSED BY THE TESTING PROCEDURES SHALL BE REPAIRED AND TESTING REPEATED UNTIL THE SYSTEM IS PROVEN TIGHT.	HOT WATER BRANCH CONNECTIONS TO DISTRIBUTION MAINS SHALL BE TOP TAKE-OFF, SWING JOINT TYPE.		Seal:
	SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER.	<ol> <li>WROUGHT COPPER AND WROUGHT COPPER ALLOY SOLDER-JOINT DRAINAGE FITTINGS: ANSI BL6.29.</li> </ol>	VALVES, GATE, 125# UNION BONNET. RISING STEM	TESTING REQUIREMENTS ARE MINIMUM AND ARE NOT INTENDED TO BE LIMITING	ALL PIPING INSTALLED BELOW GROUND SHALL RECEIVE TWO COATS OF KOPPERS		OF MISSON
	INSERTS, PIPE SLEEVES, HANGERS, SUPPORTS, FIXTURES, TRIM DRAINS AND ANCHORAGE OF PLUMBING SHALL BE PROVIDED AS SPECIFIED HEREIN. WHERE	<ul><li>11. CAULKING LEAD: FED. SPEC. QQ-C-40 (2).</li><li>12. SHEET LEAD: FED. SPEC. QQ-L-201.</li></ul>	3 INCH AND SMALLER: 1. SCREWED: ITT GRINNELL #3080 OR APPROVED EQUAL.	WHERE ADDITIONAL TESTING METHODS ARE REQUIRED BY THE AUTHORITY HAVING JURISDICTION.	NO. 50 OR APPROVED EQUAL.		RYAN BREWER
•	SUCH ITEMS ARE TO BE SET OR EMBEDDED IN CONCRETE, MASONRY OR SIMILAR WORK, THE ITEMS SHALL BE FURNISHED AND LAYOUT MADE AT THE PROPER TIME		2. SOLDER JOINT: ITT GRINNELL #3080 SJ OR APPROVED EQUAL.	SUBMITTALS	PLUMBING INSULATION		NUMBER PE-2020010759
	FOR THE SETTING OR EMBEDMENT THEREOF SO AS TO CAUSE NO DELAY IN THE WORK.	15. WHERE ACCEPTABLE BY LOCAL AUTHORITY HAVING JURISDICTION SOLID WALL ABS PIPING MAY BE USED FOR WASTE PIPING.	VALVES, BALL (MAY BE USED IN LIEU OF GATE VALVES UP TO 2"): 2" AND SMALLER NIBCO #T580; TWO PIECE BRONZE BODY, WITH SCREEWED ENDS, CHROME	STERILIZATION: PROVIDE A DATED LETTER TO THE ARCHITECT-ENGINEER'S REPRESENTATIVE STATING THAT PIPING SYSTEM HAS BEEN STERILIZED AND	DESCRIPTION INSULATION SHALL NOT BE INSTALLED UNTIL TESTING PROCEDURES HAVE BEEN		Rose-Breyer
	MANUFACTURER'S NAMES AND CATALOG NUMBERS SPECIFIED REFERENCES HAVE BEEN MADE TO ONE OR MORE MANUFACTURER'S	15.A. PVC/ABS PIPING CANNOT BE USED IN RETURN AIR PLENUM APPLICATION.	PLATED BRONZE BALL WITH CONVENTIONAL PORT, 400 PSI, BLOW OUT PROOF STEM.	FLUSHED AS SPECIFIED.  PIPING TEST	COMPLIED WITH AND ALL SURFACES HAVE BEEN CLEANED AND FREE OF DIRT, GREASE AND COMPLETELY DRIED.		10/25/2024
4	NAMES AND MODEL OR CATALOG NUMBERS. THIS DOES NOT NECESSARILY INDICATE THAT THE MATERIAL AND EQUIPMENT SPECIFIED IS AN "OFF THE SHELF"	JOINTS AND CONNECTIONS OPTIONS	VALVES, GLOBE 150# TEFLON DISC. UNION BONNET 3 INCH OR SMALLER:		MATERIALS SHALL COMPLY WITH UL 723, FLAME SPREAD RATING, HOT SURFACE TEST PERFORMANCE, AND SMOKE DEVELOPED RATING		MICHAEL MOORES, MO Architect #2009032812
	ITEM. REQUIREMENTS FOR SPECIFIC FINISHES, MATERIAL OR OTHER MODIFICATIONS MAY INTRODUCE VARIANCES FROM MANUFACTURERS'	CAST IRON, HUB AND SPIGOT: PACKED WITH OAKUM AND FINISHED WITH LEAD NOT LESS THAN 1 INCH DEEP; WELL CAULKED.	1. SCREWED: ITT GRINELL #3240 OR APPROVED EQUAL. 2. SOLDER JOINT: ITT GRINELL #3240 SJ OR APPROVED EQUAL.	OF ONE HOUR.	SUBMITTALS		Project Number: 2410 Project Type: TENANT FINISH
	STANDARDS. MODIFICATIONS SHALL BE FULLY CONSIDERED.	2. CAST IRON, NO-HUB: NEOPRENE GASKET AND CORRUGATED 304 STAINLESS STEEL SHIELD IN CONJUNCTION WITH 4 STAINLESS STEEL CLAMPS FOR 4"	VALVES, CHECK 125# REMOVABLE REGRINDABLE DISC A. 3 INCH AND SMALLER,	SANITARY PIPING, PREVIOUS TO CONNECTION OF FIXTURES, SHALL BE FILLED WITH WATER TO THE TOP OF THE SYSTEM AND PROVEN TIGHT. WHEN TESTING	SAMPLES AND MANUFACTURER'S PRODUCT DATA: SUBMIT SAMPLES OF INSULATION AND ADHESIVE AND PRODUCT DATA LISTING RECOMMENDATIONS		Project Name and Address:
	CHARTS AND TAGS IN AREAS HAVING VALVES, PROVIDE SINGLE LINE DIAGRAMS FRAMED UNDER	AND SMALLER, 6 CLAMPS FOR 5" AND LARGER. 3. BETWEEN LEAD AND BRASS: FERRULES OR SOLDERING NIPPLES WITH	HORIZONTAL: 1. SCREWED: ITT GRINELL #3300 OR APPROVED EQUAL.	THE SYSTEM BY SECTIONS THE MINIMUM HEIGHT OF THE WATER COLUMN SHALL BE 10 FEET. EXAMINE ALL JOINTS FOR LEAKS.	FOR USE AND COMPLIANCE WITH NFPA 90.		
•	GLASS AND MOUNTED ON EQUIPMENT ROOM WALL. THE DIAGRAMS SHALL GIVE NAME, NUMBER DESIGNATION AND LOCATION OF VALVE.	WIPED JOINTS 3/8" THICK AND 3/4" EACH SIDE OF JOINTS. 4. SCREWED JOINTS: AMERICAN NATIONAL STANDARD WITH PIPE FREE FROM	2. SOLDER JOINT: ITT GRINELL #3300 SJ OR APPROVED EQUAL.	NEW FIRE STANDPIPE SYSTEM SHALL BE TESTED TO A HYDROSTATIC PRESSURE	INSULATION INSULATION FOR HOT AND COLD WATER PIPING, SHALL BE SECTIONAL GLASS		•
	VALVES SHALL BE IDENTIFIED WITH 1/16 INCH THICK WHITE LAMINATED PLASTIC	CUTTING AND BURRS. THREE THREADS EXPOSED MAXIMUM.  5. SOLDERED JOINTS: 95-5 TIN-ANTIMONY SOLDER. SLIP JOINTS: USE FOR	3 INCH AND SMALLER, VERTICAL:  1. FOR SCREWED AND SOLDER JOINT INSTALLATION. SAME AS SECTION A OR	OF 200 PSIG. MAINTAIN TEST PRESSURE FOR A MINIMUM OF TWO HOURS.	FIBER AS MANUFACTURED BY OWENS CORNING FIBERGLASS TYPE ASJ/SSLII OR APPROVED EQUAL, WITH FACTORY APPLIED, ALL PURPOSE, FIRE RETARDANT		ve 6406
	NAMEPLATES WITH 3/16 INCH HIGH BLACK LAMINATED LETTERS. THE NAMEPLATE IDENTIFICATION SHALL COINCIDE WITH ITEMS APPEARING ON DIAGRAMS. ATTACH	PLUMBING TRAP SEALS ON INLET SIDE ONLY.  6. BETWEEN COPPER AND FERROUS MATERIALS: INSULATING DIELECTRIC	APPROVED EQUAL. PROVIDE ADAPTERS FOR SOLDER JOINT CONNECTION. 2.05 HOSE BIBBS A. SEE FIXTURE SCHEDULE ON DRAWINGS. B. PLUG COCKS, 125#	GAS PIPING SHALL BE TESTED WITH NITROGEN TO 50 PSIG. PRESSURE SHALL BE MEASURED WITH A MANOMETER. MAINTAIN TEST PRESSURE FOR A MINIMUM OF 30 MINUTES.	JACKET.  INSULATION FOR EXPOSED HOT AND COLD WATER PIPING SHALL BE SECTIONAL		S
	NAMEPLATES TO VALVES WITH NON-CORROSIVE CHAIN OR WIRE.  ACCESS DOORS	UNION. 7. FLANGED JOINTS: FURNISH WITH COMPANION FLANGE AND CLOTH INSERTED RUBBER GASKET.	BRONZE COCKS. TWO (2) INCH AND SMALLER SHALL BE CRANE NO. 250 OR APPROVED EQUAL.	STERILIZATION	GLASS FIBER AS MANUFACTURED BY OWENS CORNING FIBERGLASS TYPE ASJ/SSLII OR APPROVED EQUAL, WITH FACTORY APPLIED, .016 EMBOSSED		STIC Baine
3	PROVIDE ACCESS DOORS AS INDICATED AND SPECIFIED IN DRAWINGS	8. FLANGED BOLTS: ASTM A 354, MINIMUM GRADE BD, ALLOY STEEL WITH HEX NUTS IN COMPLIANCE WITH ANSI B18.22 AND STANDARD ROLLED STEEL	INSTALLATION INSTALL VALVES WHERE SHOWN ON DRAWINGS.	AFTER TESTS ARE COMPLETED ALL WATER SUPPLY SYSTEMS SHALL BE FILLED WITH A SOLUTION CONTAINING 100 PPM OF AVAILABLE CHLORINE AND ALLOWED	ALUMINUM JACKET.		ıit Me
	INSTALLATION AND WORKMANSHIP THE WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S	WASHERS.  9. ASSEMBLY FOR HUBLESS PIPING: AS RECOMMENDED BY THE	PLUMBING HANGERS AND SUPPORTS	TO STAND FOR A PERIOD TO TWO HOURS BEFORE BEING FLUSHED WITH CLEAN WATER.	ADHESIVE SHALL BE BENJAMIN FOSTER 30-36, OR APPROVED EQUAL, WHITE INSULATION LAGGING ADHESIVE.		1X PI 30 NE
	RECOMMENDATIONS. ANY MATERIAL, APPARATUS OR EQUIPMENT WHICH, IN THE OPINION OF THE OWNER'S REPRESENTATIVE, IS IMPROPERLY INSTALLED SHALL	MANUFACTURER.  10. CHANGES IN PIPE SIZE SHALL BE MADE WITH REDUCERS, INCREASERS OR	DESCRIPTION	PLUMBING, FIXTURES, TRIM AND DRAINS	VAPOR BARRIER MASTIC SHALL BE BENJAMIN FOSTER NO. 82-07, WHITE, OR		1 270 ee's S
	BE REMOVED AND REINSTALLED IN AN APPROVED MANNER AT NO ADDITIONAL COST TO THE OWNER.	REDUCING FITTINGS. BUSHINGS WILL NOT BE PERMITTED.	PROVIDE HANGERS FOR ALL PIPING NOT INDICATED BELOW GRADE. USE HANGERS CAPABLE OF ADJUSTMENT.	MANUFACTURER	APPROVED EQUAL.		
	THE LOCATION OF PLUMBING PIPING SHALL BE COORDINATED TO ENSURE THAT IT	INSTALLATION BEFORE INSTALLING PIPE IN ANY PART OF THE SYSTEM, THE PIPE SHALL BE	HANGERS AND SUPPORTS	MANUFACTURER SHALL BE AS SCHEDULED OR BY APPROVED EQUAL.	INSTALLATION HOT AND COLD WATER PIPING: SHALL BE INSULATED WITH 1/2 INCH THICK GLASS FIRED INSULATION HAVING A FACTORY APPLIED. ALL DIPPOSE FIRE PETAPDANT		
	CLEARS OPENINGS AND STRUCTURAL MEMBERS; THAT PIPING INDICATED AS CONCEALED CAN BE PROPERLY CONCEALED IN WALLS OR PARTITIONS AND THAT	CLEANED INSIDE AND MADE FREE OF OIL, DIRT, AND FOREIGN MATTER. PROPERLY ALIGN AND INSTALL IN NEAT ARRANGEMENT, TRUE TO THE LINES OF	HANGERS FOR BLACK OR GALVANIZED STEEL PIPE SHALL BE GRINNELL, MODEL NO. 65 OR APPROVED EQUAL.	PIPING PIPING TO SERVE FIXTURES AND EQUIPMENT AND EXPOSED TO VIEW IN FINISHED AREAS SHALL BE BRASS, CHROMIUM PLATED.	FIBER INSULATION HAVING A FACTORY APPLIED, ALL PURPOSE, FIRE RETARDANT JACKET WITH A MINIMUM R-4.0 PER INCH. CONCEALED AND EXPOSED PIPING SHALL HAVE THE INSULATION APPLIED WITH SIDE AND END JOINTS BUTTED		
	IT DOES NOT INTERFERE WITH LIGHTS, DUCTWORK OR EQUIPMENT HAVING FIXED LOCATIONS. MAKE NECESSARY HORIZONTAL OR VERTICAL OFFSETS WITH PIPE FITTINGS TO INSTALL THE SYSTEM IN THE AVAILABLE SPACE. CONCEAL OR	THE BUILDING. PITCH LINE AT A CONSTANT SLOPE FOR PROPER DRAINAGE.  EXCEPT AS NOTED OTHERWISE ON DRAWINGS, PIPING SHALL BE HELD AS HIGH AS	HANGERS FOR CAST IRON PIPE SHALL BE GRINNELL, MODEL NO. 260 OR APPROVED EQUAL.	SUPPORTS	TIGHTLY. SEAL JACKET LEGS AND BUTT JOINT STRIPS WITH ADHESIVE.		Issue: Date:
2	INSTALL TIGHT TO STRUCTURE (IF EXPOSED) UNLESS OTHERWISE NOTED.	POSSIBLE, BETWEEN STRUCTURES AND THROUGH JOIST WEBBING, WITH DUE REGARD TO CONFLICTS WITH OTHER SYSTEMS AND THEIR REQUIREMENTS FOR	HANGERS FOR COPPER TUBING SHALL BE GRINNELL, MODEL NO. 97 C OR	PROVIDE ALL BRACKETS, PLATES, ANCHORS AND FASTENING DEVICES REQUIRED FOR ANCHORING THE FIXTURES RIGIDLY IN PLACE. RISERS TO SHOWER HEADS	INSULATE FITTINGS FOR PIPING UP TO 3 INCHES IPS WITH MOLDED GLASS FIBER. INSULATE FITTINGS FOR PIPING LARGER THAN 3 INCHES WITH MOLDED FITTINGS		Permit Submittal 10.25.24
	PIPING SHALL BE EXPOSED IN FINISHED AREAS ONLY WHERE INDICATED OR WITH THE APPROVAL OF THE OWNER'S REPRESENTATIVE.		APPROVED EQUAL.	SHALL BE ANCHORED TO THE WALL CONSTRUCTION TO PREVENT MOVEMENT.	OR SEGMENTED SECTIONS, WIRED IN PLACE TO THE SAME THICKNESS AS ADJACENT INSULATION. EXPOSED INSULATED PIPING AND FITTINGS SHALL BE		
	WHERE DRAIN OR WATER CONNECTIONS NECESSARY TO THE OPERATION OF	PIPING, INCLUDING NO-HUB PIPING, SHALL BE INSTALLED STRAIGHT AND TRUE TO VERTICAL AND HORIZONTAL LINES. DEFLECTION SHALL NOT EXCEED ONE	TRAPEZE HANGERS OF A TYPE APPROVED BY THE OWNER'S REPRESENTATIVE MAY BE USED WHERE PIPES ARE DESIGNED TO RUN PARALLEL AT THE SAME	FIXTURES PROVIDE PLUMBING FIXTURES AS SCHEDULED ON DRAWINGS, AMERICAN	JACKETED WITH 6 OUNCE CANVAS PIPING INCLUDING THE FITTING CHANGE FROM HORIZONTAL TO VERTICAL. CONCEALED AND EXPOSED PIPING SHALL HAVE THE		
	FIXTURES OR EQUIPMENT ARE NOT SPECIFICALLY SHOWN ON DIAGRAMS, EXTEND NECESSARY BRANCHES TO THE CLOSEST INDICATED BRANCH OR MAIN, AT NO	DEGREE. WHEN NECESSARY TO ACHIEVE THIS ALIGNMENT PROVIDE ADDITIONAL HANGERS OR BRACING.	ELEVATION.	STANDARD, KOHLER, ELJER OR APPROVED EQUAL.	INSULATION APPLIED WITH SIDE AND END JOINTS BUTTED TIGHTLY. SEAL OFF ENDS OF INSULATION WITH VAPOR BARRIER MASTIC AT EACH FITTING AND AT 21		
•	ADDITIONAL COST TO THE OWNER.	APPLY LUBRICANT TO SCREW JOINT MALE THREADS.	PROVIDE ISOLATION HANGER WITH PROTECTIVE SHIELD, GRINNELL, MODEL NO.  300 103 OR APPROVED EQUAL, FOR ALL INSULATED PIPING. AT HANGER POINTS,  PROVIDE 6 INCH LONG SECTION OF 1/2 INCH THICK CALCULAR SILICATE SECTION AT	PLUMBING DRAINS FURNISH WITH SEEPAGE FLANGE WHERE INSTALLED WITH PANS OR FLASHING, FURNISH OLAMBING PING	FOOT INTERVALS ON CONTINUOUS RUNS.		•
	EACH FIXTURE, EQUIPMENT DRAIN OR FLOOR DRAIN SHALL BE SEPARATELY TRAPPED UNLESS OTHERWISE INDICATED OR SPECIFIED.	METAL TO BE SOLDERED SHALL BE CLEANED AND FLUXED AS SUITABLE FOR THE	PROVIDE 6 INCH LONG SECTION OF 1/2 INCH THICK CALCIUM SILICATE SECTIONAL PIPE INSULATION WITH FACTORY LONGITUDINAL LAP. SEAL BUTT JOINTS WITH INSULATING CEMENT.	FURNISH CLAMPING RING.  ALL DRAINS SHALL BE OF THE SAME MANUFACTURER.	INSTALL THE FACTORY APPLIED FIRE RETARDANT JACKET VAPOR BARRIER SO THAT IT WILL LAP SMOOTHLY AND SECURELY AT THE LONGITUDINAL LAP AND ADHERE IT WITH VAPOR BARRIER MASTIC. ADHERE 3 INCH WIDE BUTT STRIPS X		Chast Title
	PLUMBING PIPING AND EQUIPMENT SHALL NOT BE FIELD PAINTED, OR PRIMED BEYOND THE DEGREE OF APPLICATION FROM THE FACTORY SOURCE, OR EXCEPT	SOLDER USED.  NOTCHING OF COPPER TUBING OR PLASTIC PIPING FOR CONNECTIONS WILL NOT	STRAP HANGERS: NOT PERMITTED.	FURNISH FLOOR DRAINS WITH PRIMER CONNECTIONS WHERE INDICATED ON THE	SMOOTHLY OVER ALL END JOINTS WITH THE VAPOR BARRIER MASTIC TO ASSURE A CONTINUOUS VAPOR BARRIER - NO STAPLES ALLOWED, INSULATE DRAIN		Sheet Title:
1	AS REQUIRED BY APPLICABLE CODES AND AUTHORITIES HAVING JURISDICATION.	BE PERMITTED.	RISER CLAMPS: PROVIDE RISER CLAMPS FOR VERTICAL PIPING AT EACH LEVEL,	DRAWINGS. IN LIEU OF CAST-IN PRIMER CONNECTIONS ON THE DRAIN BODY, A TEE BETWEEN THE DRAIN BODY AND THE TRAP, TO RECEIVE THE PRIMER	BODIES AND FITTINGS WITH METERED SEGMENTS OF PIPE INSULATION, OVERSIZED PIPE INSULATION OR MOLDED FITTINGS. COAT WITH TWO, 1/8 INCH		PLUMBING 1 SPECIFICATIONS
	WATERPROOFING DO NOT CUT OR PENETRATE WATERPROOFED SURFACES OR WATERPROOFING	PLUMBING SPECIALITES	GRINNELL MODEL NO. 261	DISCHARGE WILL BE ACCEPTABLE.	COATS OF VAPOR BARRIER MASTIC REINFORCED WITH GLASS FABRIC EXTENDING 2 INCHES ONTO ADJACENT PIPES. EXPOSED INSULATED PIPING AND FITTINGS		
	MEMBRANES WITHOUT FIRST MAKING ARRANGEMENTS FOR REPAIR BY A METHOD APPROVED BY THE OWNER'S REPRESENTATIVE.	SCHEDULE 40 BLACK STEEL, GALVANIZED 26 GAGE STEEL, PROVIDE FOR ALL		PROVIDE FLOOR DRAINS WITH 4 INCH DEEP SEAL TRAPS.	SHALL BE JACKETED WITH 8 OUNCE CANVAS. TERMINATE INSULATION NEATLY AT CLEANOUTS ON STORM AND COLD DRAIN PIPING. DO NOT COVER CLEANOUTS.		
		PIPES THROUGH WALLS AND FLOORS.		PROVIDE ALL DRAINS AS SCHEDULED ON DRAWINGS OR APPROVED EQUAL.			D204
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						CTDIC	`ΔΙ ΛΩΩΟ	EVIATIONS				\	MBOLS	
					AC	ALTERNATING O		EVIATIONS	-				POWER EQUIPMENT/DEVIC	)EQ
					AHU A. OR AMPS.	. AIR HANDLING U			SYMBOL	DESCRIPTION	MOUNTING		DESCRIPTION	MOUNTING
					AFC AFCI	ABOVE FINISH C ARC FAULT CIRC ABOVE FINISHE	CUIT INTERRUPTER			DOWNLIGHT (LETTER INDICATES FIXTURE TYPE)			SWITCHBOARD OR DISTRIBUTION PANEL	MOONTING
					AIC ATS		RRUPTING CAPACITY		○A	REFER TO LIGHT FIXTURE SCHEDULE	CEILING		REFER TO PANEL SCHEDULES	
					BTC C		NNECTION POINT AND CONNECT EQUIP 'IS EMPTY CONDUIT)	MENT		DIRECTIONAL DOWNLIGHT (LETTER INDICATES FIXTURE TYPE) REFER TO LIGHT FIXTURE SCHEDULE	CEILING		DRY-TYPE TRANSFORMER REFER TO PLANS FOR KVA RATING	
					CF CM	CEILING FAN COFFEE MAKER	2		ЮА	WALL MOUNTED LIGHT FIXTURE (LETTER INDICATES FIXTURE TYPE REFER TO LIGHT FIXTURE SCHEDULE	WALL WALL		120/208V, 3Ø, 4W PANELBOARD REFER TO PANEL SCHEDULES	
					D DCO	COOKTOP  DEDICATED CIR  DUPLEX CONVIE			A	LINEAR LIGHT FIXTURE (LETTER INDICATES FIXTURE TYPE) REFER TO LIGHT FIXTURE SCHEDULE	CEILING OR SUSPENDED		277/480V, 3Ø, 4W PANELBOARD REFER TO PANEL SCHEDULES	
					DP DW	DISPOSAL  DISHWASHER	ENGE OUTLET			2X4 LIGHT FIXTURE (LETTER INDICATES FIXTURE TYPE)	CEILING	Φ	JUNCTION BOX	WALL OR
					DY EMT	DRYER ELETRICAL MET	ALLIC TUBING			REFER TO LIGHT FIXTURE SCHEDULE  2X2 LIGHT FIXTURE (LETTER INDICATES FIXTURE TYPE)			FUSED SAFETY SWITCH	CEILING
					EF EWC		ER COOLER (WATER-COOLED DRINKING	FOUNTAIN)	A	REFER TO LIGHT FIXTURE SCHEDULE	CEILING	30/20/3	(E.G. 30/20/3 INDICATES A 30A, 3-POLE SWITCH WITH 20A FUSES)	
					FCU CFIVEFOL	FAN COIL UNIT	COROLLIT INTERPLIENTED			HATCHING ON FIXTURE INDICATES FIXTURE TO HAVE EMERGENCY BACK-UP		30/NF/3L	NON-FUSED SAFETY SWITCH (E.G. 30/NF/3 INDICATES A 30A, 3-POLE SWITCH WITHOUT FUSES)	
					GFI/GFCI GFIP GRD		CIRCUIT INTERRUPTER INTERRUPTER PROTECTED		<b>1</b>	TWO HEAD EMERGENCY LIGHT FIXTURE (LETTER INDICATES FIXTURE TYPE) REFER TO LIGHT FIXTURE SCHEDULE	RE WALL OR CEILING	S™	MOTOR RATED SWITCH	
					H HD		OUNT (RECEPTACLE) OOD		<b>∑</b> x1 <b>1⊗</b> 1	EMERGENCY EXIT SIGN. PROVIDE ARROW(S) AS INDICATED. SHADING INDICATES FACE (LETTER INDICATES FIXTURE TYPE)	WALL OR CEILING	N	MOTOR	
					HP HT	HORSEPOWER HEAT TRACE PO	OWER (PROVIDE W/ 20A/1P GFI BREAKER	R)	S	REFER TO LIGHT FIXTURE SCHEDULE  SINGLE POLE SWITCH 20A (120/277V)	(1)	+	NEMA 5-20R SIMPLEX RECEPTACLE	WALL - 18" AFF
					HVAC HZ	HERTZ	ILATING, & AIR CONDITIONING			, ,		<u> </u>		
					KCM KVA	THOUSAND CIR	UND (DUPLEX RECEPTS NEMA 5-20RIG CULAR MILLS ERES (1000 VOLT-AMPERES)	P)	<b>S</b> <sub>3</sub>	THREE WAY SWITCH 20A (120/277V)	(1)	₩	NEMA 5-20R DUPLEX RECEPTACLE	WALL - 18" AFF
					KW MLO	KILOWATTS (100 MAIN LUGS ONL	DO WATTS)		S <sub>4</sub>	FOUR WAY SWITCH 20A (120/277V)	1	₩	NEMA 5-20R DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER	1
					MCB MW	<u> </u>	OORD MTG HT W/ ARCHITECT)		H	WALL BOX DIMMER SWITCH	1	₩	NEMA 5-20R QUAD-PLEX RECEPTACLE	WALL - 18" AFF
					NIC NEC	NOT IN CONTRA  NATIONAL ELEC  NOT FUSED	• • • • • • • • • • • • • • • • • • • •		$\Diamond_{\!\scriptscriptstyle \chi}  \overline{\nabla}_{\!\scriptscriptstyle \chi}$	CEILING OR WALL MOUNTED OCCUPANCY SENSOR (LETTER INDICATES SENSOR TYPE)	WALL OR CEILING	₽	NEMA 5-20R SPLIT RECEPTACLE. TOP OUTLET WIRED HOT. BOTTOM OUTLET SWITCHED.	WALL - 18" AFF
					OFCI PNL		HED CONTRACTOR INSTALLED		H <sub>C</sub> X	REFER TO LIGHTING CONTROLS SCHEDULE  LOW-VOLTAGE CONTROL STATION (LETTER INDICATES CONTROL STATION TYPE)	WALL - 48" AFF TO TOP OF	Ю	SPECIAL PURPOSE RECEPTACLE	WALL - 18" AFF
					PH OR Ø	PHASE POLE				REFER TO LIGHTING CONTROLS SCHEDULE  PHOTOCELL SENSOR	JUNCTION BOX	8	REFER TO PLANS FOR NEMA CONFIGURATION  NEMA 5-20R - DUPLEX RECEPTACLE WITH USB PORTS	OR CEILING
					PVC RF	POLYVINYL CHL REFRIGERATOR			₽© X	(LETTER INDICATES SENSOR TYPE) REFER TO LIGHTING CONTROLS SCHEDULE POWERPACK	FIELD VERIFY	### USB	SIMILAR TO HUBBELL #USB20AC5W	WALL - 18" AFF
					RG SPD	RANGE SURGE PROTEC TAMPERPROOF			PP	(LETTER INDICATES POWERPACK TYPE) REFER TO LIGHTING CONTROLS SCHEDULE	ACCESSIBLE CEILING	<del>-                                    </del>	NEMA 5-20R DUPLEX RECEPTACLE MOUNTED ON CEILING	CEILING - FLUSH
					TTB TV	TELEPHONE TELEVISION REC	RMINAL BOARD		COMM	UNICATION/LOW-VOLTAGE	DEVICES	FB1	HUBBELL CFB4 SERIES FLOOR BOX (OR EQUAL) WITH (2) DUPLEX RECEPTACLES AND DATA/COMMUNICATION CONNECTION CAPABILITY	FLOOR - FLUSH
					UC UL	UNDERCOUNTE	R REFRIGERATOR (OR ICE MACHINE) S LABORATORIES		SYMBOL	DESCRIPTION	MOUNTING	FB2	HUBBELL B24 SERIES FLOOR BOX (OR EQUAL) WITH (1) DUPLEX RECEPTACLE AND DATA/COMMUNICATION	FLOOR - FLUSH
					U.N.O.	UNLESS NOTED VOLTS			CR	CARD READER (VERIFY EXACT REQUIREMENTS)		FB3	CONNECTION CAPABILITY  HUBBELL B24 SERIES FLOOR BOX (OR EQUAL) FOR POWER AND DATA CONNECTIONS TO PRE-WIRED FURNITURE	FLOOR - FLUSH
					VA VD VED	VOLT-AMPERES  VENDING MACH  VARIABLE FREC	INE (24"AFF)		M	DATA, TELEPHONE, OR COMBO TELE/DATA OUTLET PROVIDE PULLSTRING IN CONDUIT TO ACCESSIBLE CEILING	WALL - 18" AFF		VERIFY EXACT CONNECTION WITH FURNITURE VENDOR HUBBELL S1PT SERIES 4" POKE-THRU (OR EQUAL)	
					W WA	WATTS WASHER	COLINGT DIVIVE			DATA, TELEPHONE, OR COMBO TELE/DATA OUTLET PROVIDE PULLSTRING IN CONDUIT TO ACCESSIBLE CEILING	FLOOR OR CEILING		WITH (2) DUPLEX RECEPTACLES AND DATA/COMMUNICATION CONNECTION CAPABILITY HUBBELL S1PTFF SERIES 4" POKE-THRU (OR EQUAL)	FLOOR - FLUSH
					WD WO	WARMING DRAV	WER			TELEVISION OUTLET	WALL OR		FOR POWER AND DATA CONNECTIONS TO PRE-WIRED FURNITURE VERIFY EXACT CONNECTION WITH FURNITURE VENDOR	FLOOR - FLUSH
					WP WP/WR		DF/WEATHER RESISTANT			FELEVISION OUTLET	CEILING		HUBBELL S1R6 SERIES 6" POKE-THRU (OR EQUAL) WITH (2) DUPLEX RECEPTACLES AND DATA/COMMUNICATION AND A/V CONNECTION CAPABILITY	FLOOR - FLUSH
					W/UNIT	DISCONNECT IS	SUPPLIED WITH THE UNIT			SPEAKER OUTLET	FIELD VERIFY		CONDUIT IN OR UNDER FLOOR/GRADE	
					GEN	<u> IERAL</u>	ELECTRIC	CAL NOTES	<u>'TTB'</u>	TELEPHONE TERMINAL BOARD	WALL		CONDUCTOR HOME RUN - ( ) HOT, ( ) NUETRAL, ( ) EQUIPMENT GROUND, & ( ) ISOLATED GROUND	
					REQUIRE	EMENTS OF THE AHJ AND	L BE IN ACCORDANCE WITH THE NATION D ALL LOCAL & STATE CODES.	NAL ELECTRICAL CODE,		SECURITY CAMERA OUTLET	FIELD VERIFY			
					3. REFER TO	SCALE FROM THESE DR TO ARCHITECTURAL DRA G FIXTURES AND ELECTI	WINGS AND REFLECTED CEILING PLANS	S FOR EXACT LOCATIONS OF ALL	•	PUSH BUTTON		<b>-</b>	EQUIPMENT CONNECTION	
					4. ALL EMP1 5. ALL JUNC	PTY CONDUITS SHALL BE ICTION BOXES SHALL HA	PROVIDED WITH PULL STRINGS AND BU						CONDUIT IN CEILING OR WALL	
					7. ALL BRAN BREAKER	NNCH CIRCUITS WITHOUT R W/ 2#12,1#12EG,3/4"C.	FA CONDUCTOR & CONDUIT INDICATED	SHALL BE ROUTED TO A 20A-1P	$\overline{}$	ABOVE A COUNTER, DEVICE TO BE WALL MOUNTED 6" ABOVE				
					BE SMALL	LLER THAN 3/4"C. UNLES	ORS SHALL NOT BE SMALLER THAN #12 S SPECIFICALLY NOTED OTHERWISE. DWER) SHALL BE PROVIDED WITH DEDIC		FINISHED CO IF NOT MOUN	UNTER OR 44" TO TOP OF JUNCTION BOX (WHICHEVER IS LOWER). ITED ABOVE A COUNTER, DEVICE TO BE WALL MOUNTED AT				
					PROVIDE	ED WITH 2P OR 3P BREAK	S ARE INDICATED TO BE SHARED, MULTI KERS AS REQUIRED PER NEC210.4. DWER) SHALL BE PROVIDED WITH AN INS			OP OF JUNCTION BOX AS REQUIRED TO MEET ADA REQUIREMENTS. RCHITECTURAL DRAWINGS FOR EXACT LOCATIONS/ELEVATIONS.				
					CONDUC GROUND	CTOR SIZED IN ACCORDA D.	ANCE WITH THE NEC. THE RACEWAY SH	ALL NOT BE USED AN EQUIPMENT						
					WITH 12 (	GAUGE WIRE CONNECT	RTED FROM EACH CORNER (INDEPENDE ED TO STRUCTURAL SYSTEM OF BUILDI REMENTS OF LOCAL AND NATIONAL CO	ING. THE INSTALLATION SHALL MEET						
					12. ELECTRIC PANELBO SWITCHE		HEIGHTS, UNO: 78" AFF TO TOP OF PANEL 48" AFF TO TOP OF JUNCTION BOX							
					RECEPTA TELE/DAT	ACLES ATA OUTLETS	18" AFF TO CENTER OF RECEPTACLE 18" AFF TO CENTER OF RECEPTACLE							
					13. ELECTRIO SCALE OF	ICAL EQUIPMENT (PANEL ON THE FLOOR PLANS.	PER ANSI A117.1 REQUIREMENTS (VE BOARDS, TRANSFORMERS, DISTRIBUTI	ON EQUIPMENT, ETC.) IS SHOWN TO						
					14. THE ELEC SPACES S	ECTRICAL CONTRACTOR S SHOWN ON THE PLANS	IS RESPONSIBLE FOR PROVIDING EQUII AND COMPLYING WITH ALL CODE REQU ABEL ALL DEVICES (RECEPTACLES, SWI	JIRED CLEARANCES.						
					DISCONN AND SIMI	NECTS, ETC.) WITH CIRC MILAR DEVICES TO HAVE	UIT NUMBER AND PANELBOARD DESIGN PRE-PRINTED, SELF ADHESIVE LABEL.	NATION. RECEPTACLES, SWITCHES,						
					LAMINATE	TED ACRYLIC LABEL (BLA	WITCHES, AND SIMILAR DEVICES TO HAN ACK W/ WHITE LETTERING). BOARD SCHEDULES FOR ALL ELECTRIC,							
								<del></del>						









10/25/2024

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•	Н	•	G	•	F	•	E	•	D	•	С	•	В	•	Α	Architect: 11/18  MICHAEL MOORES, RA
									WIRING FOR ALL DIVISION 15 EQUIPMENT	WHITE LEAD BEFORE	RRS" AND ALL FIELD CUT THREADS COUPLINGS ARE APPLIED.	S SHALL BE PAINTED WITH	POWER OUTLETS, MOT	Y SYSTEMS, WIRING SYSTEM NEUTRALS, RECEPTACLE: TORS AND MOTORIZED EQUIPMENT, SHALL BE GROUND		t: (816) 516-4861
								WATER HEATERS, AND HVAC EQUIPME	S, INCLUDING, BUT NOT LIMITED TO, PUMPS ENT, AND ALL LINE-VOLTAGE CONTROL AND	ID EMPTY CONDUIT SYS	TEMS INSTALLED FOR COMMUNIC	,	ACCORDANCE WITH N.		TILA	
8								INTERLOCK WIRING NOT PROVIDED UN MANUFACTURER'S WIRING DIAGRAMS. DISCONNECTS FURNISHED WITH EQUIP	COORDINATE WITH DIVISION 15 FOR	•	R ITEMS AND OTHER SYSTEMS AS COMPLETE WITH NYLON PULL WI ITIFICATION		GREEN GROUNDING CO	ES AND POWER OUTLETS TO THE CONDUIT SYSTEM WI' CONDUCTOR SIZE IN ACCORDANCE WITH N.E.C. AND N THE DEVICE GROUNDING SCREW AND THE OUTLET B		8
									ALLING WIRING, VERIFY THAT EACH MOTOF	OR	THEORY CONDITIONS ARE SUCI	H THAT AIR MAY FLOW	CONNECTION TO THE E	BOX MAY BE A "G" CLIP OR BY A 10/24 SCREW THREADE ACK OF THE BOX AND USED FOR NO OTHER PURPOSE.		
									CURRENT PROTECTION" DEVICE RATINGS	CONTINUOUSLY IN CO	ONDUITS, CAUSING CONDENSATION  OUITS SHALL BE SEALED AT EACH	ON AND THE COLLECTION OF	EQUIPMENT CONNECT	THE BOX AND GOLD FOR NO OTHER FOR GOLD.  TED TO THE ELECTRICAL SYSTEM SHALL BE GROUNDED.  REEN GROUNDING CONDUCTOR SIZED IN ACCORDANCE.		
								AND "MINIMUM CIRCUIT AMPACITY" COI EQUIPMENT FROM THE EQUIPMENT NA	NDUCTOR SIZING FOR MECHANICAL	DUCT SEALING COMP	OUND. ALSO SEAL ALL CONDUITS PMENT AND PROVIDE EXPANSION	S ENTERING AND LEAVING	N.E.C. AND INSTALLED	WITHIN THE RACEWAY. CONDUCTOR SHALL BE EN A GROUNDING SCREW IN THE EQUIPMENT JUNCTION		Client:
•								INSTALLATIONS ON ACTUAL REQUIRED SOMEWHAT FROM THE CONDUCTOR A	) AMPERAGES, WHICH MAY VARY		D MOTORS, SOLENOID VALVES, P		AND A GROUND ATTAC	CHMENT IN THE NEAREST OUTLET BOX IN THE RIGID YSTEM. THIS REQUIREMENT INCLUDES ALL FLEXIBLE	V BOX	Ward Development 1120 NW Eagle Ridge Blvd.
								DRAWINGS; HOWEVER, IN NO CASE, RE INDICATED ON THE DRAWINGS WITHOU	EDUCE THE SIZE OF CONDUCTORS	SWITCHES, AND SIMIL	AR APPARATUS SHALL BE FLEXIE	BLE CONDUIT WHERE	CONDUIT.			Grain Valley, Missouri 64029
								PROVIDE PROPERLY SIZED ELECTRICA	AL WIRING AND EQUIPMENT WITHOUT EXTR IGINEER OF ALL CHANGES REQUIRED IN TH	RA MOISTURE, USE LIQU	DTIGHT FLEXIBLE CONDUIT WITH			PHONE AND SUPPLEMENTAL COMMUNICATION SYSTEM O EACH PROTECTOR CABINET, OTHER CABINET, OR DE		t: (816) 229-8115
								ELECTRICAL INSTALLATION DUE TO EQ EFFECTS ON FEEDERS, BRANCH CIRCL			G, HANGERS AND SUPPORTS TALLED UNDER THIS DIVISION TRU	JE AND LEVEL.	INSTALLATION SHALL E (UNLESS INDICATED O	BE CONSIDERED SUFFICIENT, FROM THE SERVICE GRO THERWISE).	UND	Consultants:
7								BREAKERS CAN BE CHECKED PRIOR TO RESPONSIBLE FOR COORDINATING WIT		CLAMPS TO SECURE	RT ALL RACEWAYS FROM THE ST TO SAME. ARRANGE SUPPORTS <sup>-</sup>	TO PREVENT MOISTURE	GROUNDING MATERIAL	<u>L:</u>		MEP Engineering:
									MENT, AND CORRECT OVERLOAD HEATERS	S MULTIPLE CONDUITS	OW ENTRANCE TO BOXES WITHO USING CHANNEL TRAPEZE SUPPO	ORTS TIGHT TO STRUCTURE	GROUND CONDUCTOR	DIA., 10' LONG, COPPERWELD R - SIZE AS PER N.E.C. REQUIREMENTS, SOFT DRAWN O	R	
								FOR ALL MOTORS, WHEN STARTERS AF		SIZE CLAMPS, INSERT	'ED SPACERS TO INSULATE FROM 'S, CHANNELS AND ALL OTHER MI	EMBERS TO SUPPORT A		TIONS - MOLDED FUSION WELDING PROCESS USING PR	OPER	
									IDER DIVISION 15, FOR ALL THERMOSTATS,	S, PLUS THE WEIGHT OF	OF THE COMBINED WEIGHT OF A A MAN.	ALL SUPPORTED MATERIAL	CONNECTION. WATERF	ER, SIZE AND TYPE CARTRIDGE FOR THE JOINT OR PIPE CONNECTION, SILICON BRONZE APPROVED		ENCINEEDED DINI DINC COLUTIONS LI
•								TO, NIGHT-STATS, WATER HEATER INTE	ND CONTROLS, INCLUDING, BUT NOT LIMITE ERLOCKS, TIME SWITCHES AND OVERRIDE	E WHERE SEVERAL RAG	CEWAYS ARE SUPPORTED ON A C	•		CTOR DESIGNED FOR THE PIPE AND CABLE TO BE BOND	DED.	ENGINEERED BUILDING SOLUTIONS, LL P.O. BOX 11101  OVERLAND PARK, KS 66207 913-735-5654  MO Certificate of Authority #E-2021006522
									CONDUCTORS FOR THERMOSTATS AND	INVOLVED. SPACE HA				S WITH CENTERLINE AT 5 FT6IN. ABOVE FINISH FLOOR	•	
								•	AND LISTED FOR THIS PURPOSE, BUT SHALI	LL ON CENTERS	ND 3/4 IN. SIZE; 6'-0" ON CENTERS	5; 1 AND 1-1/4 IN. SIZE; 9'-0"	FINISH FLOOR, ARRANG	GHEST BREAKER HANDLE SHALL BE BELOW 6 FT5 IN. A IGE BREAKERS SO THAT THE BREAKER RATING IS VISIB		
6								BE INSTALLED IN CONDUIT WITHIN WAL AREAS.	LLS AND WHERE EXPOSED IN THE WORK	ELECTRIC METALLIC 1/2 AND 3/4 IN. SIZE; 5	TUBING: '-0" ON CENTERS;  1 AND 1-1/4 IN §	SIZE; 6'-0" ON CENTERS.	WITH THE PANEL FROM			6
•								EXECUTION			ANGERS AND SUPPORTS TO CON		BREAKER POSITION NU	AS A MINIMUM, SHALL BE TYPEWRITTEN AND INDICATE UMBER AND EQUIPMENT SERVED. THE PANEL  OR THE DANIEL TRIM AND SHALL CONCIO		
								METHOD OF PROCEDURE	ME AND IN SUCH MANNER AS TO MINIMIZE	COORDINATION WITH	IE "NECA STANDARDS OF INSTALI MECHANICAL TRADES: THE INTEI IBINE AS MANY PIPES, CONDUITS	NT OF THE ABOVE CEILING	A BLACK LAMINATED P	L BE LOCATED ON THE PANEL TRIM AND SHALL CONSIS PHENOLIC LABEL, SCREW MOUNTED, WITH THE PANEL HING PANEL IDENTIFICATION ON DRAWINGS, LABEL ALI		
								INTERFERENCES AND DELAYS IN THE E	EXECUTION OF THE WORK CARE SHALL BE TION OF ALL EQUIPMENT AND MATERIALS	E WITHIN SAFE STRUCT	TURAL LIMITS, ON EACH HORIZON BELECTING THE HORIZONTAL MEN	TAL SECTION OF A TRAPEZE	CONDUCTORS WITH AD	THING FANCE IDENTIFICATION ON DRAWINGS, LABEL ALI DHESIVE WRAP LABELS WITHIN 2 IN. OF THE CONDUCT TO INSTALLATION OF TRIM.		
									E WORK. DAMAGES SHALL BE REPAIRED AT	AT MECHANICAL AND ELI	ECTRICAL, SHALL COORDINATE A H THAT FINAL SELECTION RESUL'	CTUAL NUMBER OF PIPES,	LIGHTING FIXTURE INS			
								EQUIPMENT REQUIRING ELECTRICAL S			CESSIBLE INSTALLATION.	TO IN A NEATER GROOF ED,	PROVIDE A LIGHTING F	FIXTURE FOR EACH AND EVERY OUTLET IN ACCORDANG ION AND FIXTURE SCHEDULE ON THE DRAWINGS. VERI		
									STED PARTIES HAVE BEEN DULY NOTIFIED		<u>N</u> EMS AS ARE NORMALLY WIRED A	T THEIR POINT OF	THE ARCHITECTURAL F	FINISHES AND CEILING CONSTRUCTION AND - REGARD  BER PREFIXES AND SUFFIXES SHOWN - PROVIDE FIXT	LESS	
								EQUIPMENT TO BE PLACED IN SERVICE		MANUFACTURE AND S	SO DELIVERED - AND UNLESS SPE THE ELECTRICAL TRADE SHALL D	ECIFICALLY NOTED TO THE	WITH THE PROPER TRI	IM, FRAMES, SUPPORTS, AND HANGER AND OTHER URTENANCES TO PROPERLY COORDINATE WITH SAID		
5									Y. THE OWNER SHALL BE NOTIFIED AS FAR TE THE VARIOUS ITEMS OF EQUIPMENT WIL		R. IT IS THE INTENT OF THESE SI SYSTEMS AND EQUIPMENT SHAL			E CEILING CONSTRUCTION AS REQUIRED TO PROPERLY T OF FIXTURES INSTALLED THEREON.	(	Revisions to technical submissions which are made or approved by the licensee are prohibited.
								BE COMPLETE.		OPERATION OF SAID	CONNECTIONS, COMPLETED TO A SYSTEMS. WHEN IT IS NECESSAR	Y FOR TRADES	IMMEDIATELY PRIOR TO	O FINAL INSPECTION: THOROUGHLY CLEAN ALL FIXTUF	RES	Seal:
								REQUIRED TO ALL MISCELLANEOUS EC		TO ITEMS OF EQUIPM	COVERED BY THIS DIVISION TO M. ENT BEING FURNISHED BY OTHER	RS, OR BY OTHER TRADES	ADJACENT SURFACES.	UDING PLASTICS AND GLASSWARE. ADJUST TRIM TO F 5. REPLACE BROKEN OR DAMAGED PARTS. INSTALL NE	EW .	OF MISSON
								UNDER OTHER DIVISIONS OF THE WOR CONTROL WIRING. WIRING DEVICES A	ND COVER-PLATES FOR BUILT-IN	ACCORDANCE WITH 1	ONS, ALL SUCH WORK SHALL BE F THE REQUIREMENTS OF THIS DIVI		LAMPS. ELECTRICALLY OPERATION.	Y AND MECHANICALLY TEST THE SYSTEM FOR PROPER	8	RYAN PAN
•									NEOUS PROTECTIVE DEVICES REQUIRED BY			WAS ANNO EVOEDT THAT		RESPONSIBLE FOR OBTAINING APPROVAL FROM LOCAL	L	● BREWER ★ BREWER ★ NUMBER
								N.E.C. ARE INCLUDED IN THE WORK OF FINAL CONNECTIONS FROM APPROVED	THIS DIVISION. DO ALL ROUGHING-IN AND SHOP DRAWINGS ONLY.	HOMERUNS LONGER	OR BRANCH CIRCUITS SHALL BE THAN 100 FT. LENGTH FROM THE	PANEL TO THE CIRCUIT'S	EMERGENCY AND EXIT	ND MAKING ANY REVISIONS DIRECTED BY THEM ON FLIGHTING.		PE-2020010759 Brevis
								COMPLIANCE WITH THE DRAWING AND PROVIDE OPENINGS THROUGH WALLS.		150', CONTRACTOR M	:NTER SHALL BE #10 AWG MINIMU UST ENSURE WIRE SIZE BEING UT EATER THAN 3%, REQUEST PROF	TILIZED DOES NOT CREATE	CLEANING THOROUGHLY CLEAN A	ALL FIXTURES. SWITCHES. OTHER DEVICES. PANELBOA	NPNS	10/3/ONAL EXECUTED 10/25/2022
								REQUIRED FOR ELECTRICAL WORK.	, PARTITIONS, FLOORS, AND ROOFS AS	INSTALLATION IF A 3%	EATER THAN 3%. REQUEST PROF S VOLTAGE DROP MAY OCCUR FO THREE CURRENT CARRYING CONF	R ANY BRANCH CIRCUIT.	AND EQUIPMENT PROV	VIDED OR CONNECTED IN THIS CONTRACT. ALL SURFA POLISHED AND SHALL BE FREE OF PAINT AND ALL OTHE	CES	MICHAEL MOORES, MO Architect #20090328
4								PROVIDE SLEEVES FOR ELECTRICAL W	VORK PASSING THROUGH WALLS, LEEVES SHALL EXTEND THROUGH FLOORS.	THE SAME RACEWAY	CONDUCTORS ARE TO BE DERAREQUIRED. WHERE THE INCREAS	TED PER N.E.C. AND WIRE	DIRT OR DEBRIS. TOUG	ICHUP OR COMPLETELY REFINISH ALL EQUIPMENT TORY FINISHES THAT IS DAMAGED DURING DELIVERY C		Project Number: 2 <sup>2</sup> Project Type: TENANT FINI
								, ,	E CUT FLUSH WITH EACH SURFACE UNLESS	SS REQUIRES, INCREASE	THE RACEWAY SIZE AS WELL. F OR FIXTURE WIRING, AS PERMITT	OR CONTROL WIRING, USE	CONSTRUCTION. PRO	PERLY PROTECT THE FRONTS OF ALL PANELBOARDS, SIMILAR EQUIPMENT TO PREVENT MARRING AND OTHE		Project Name and Address:
									EVES IN CONCRETE AND MASONRY WALLS	.S, MINIMUM. FOR SIGNA	IL AND COMMUNICATIONS SYSTE RED BY THE SYSTEM SUPPLIER.	•	DEFACING.		•	
								•	INISHED SMOOTH, BURR FREE, WITHOUT		TO TERMINALS USING PRESSURE	E TYPE CONNECTORS.	,	HE PREMISES FREE FROM ACCUMULATIONS OF WASTE SH CAUSED BY THE WORK OF THE TRADESMEN DOING		
								CONSTRUCTION AND THROUGH SUSPE FROM 22 U.S. GAUGE GALVANIZED STE	ENDED CEILINGS SHALL BE FABRICATED EL. FLOOR SLEEVES SHALL EXTEND THRE		RE PROHIBITED. ALL JOINTS IN CO BLE LOCATION WITHIN A BOX BY			T COMPLETION OF THE WORK, REMOVE ALL RUBBISH, AND SURPLUS MATERIALS. BROOM CLEAN ALL ASSIGNE	D .	900
								INCHES ABOVE FINISHED FLOOR UNLES FLOOR SLEEVES AND PASSING CONDU	SS OTHERWISE NOTED. SPACE BETWEEN JIT SHALL BE FILLED WITH DUCT SEAL		OGETHER AND APPLYING A WIRE CAPACITY OF THE CONNECTOR.		SPACES PRIOR TO LEA	AVING THE PREMISES.		Drive
								CONDUITS PASS THROUGH WATERPRO	PROOF COMPOUND AS APPROVED. WHERE DOFED FLOORS OR WALLS, SLEEVES SHALL	LL THAN #10 AWG SHALL	ELECTRICAL TAPE. SPLICES FOR . BE MADE WITH AN APPROVED C	OMPRESSION (SQUEEZE)	TESTING AND LOAD BA			
3								BE FABRICATED SUCH THAT WATERPR AROUND THE SLEEVE.	COOFING CAN BE FLASHED ONTO AND	TAPE TO 1.5 TIMES TH	FED WITH NOT LESS THAN TWO LA HE THICKNESS OF INSULATION, FO	OLLOWED BY TWO	LIGHT AND TEST EACH	D ASSURE THEM TO BE FREE OF GROUNDS AND SHORT I LAMP. PROVE AND TEST THE AVAILABLE VOLTAGE ON		AST McBair Mit, Miss
								RACEWAYS	NIALL DE DUNUN METALLIO DA OFINAVO	PROTECTION. LOCAT	F HALF-LAPPED ELECTRICAL TAPE E ALL SPLICES IN BOXES OR FITT		DISCONNECT. VERIFY	DISCONNECT. VERIFY PROPER OPERATION OF THE  THE PHASE SEQUENCE, VOLTAGE, AND ROTATION AT I	EACH	
									SHALL BE RUN IN METALLIC RACEWAYS OTHERWISE. THESE RACEWAYS SHALL BE EAS, AND WHERE RUN EXPOSED SHALL BE		AND CABLES WITH BRADY ADHES	IVE MADVEDO AT	CONTROL AS NEARLY	NCE OF THE INSTALLER. RUN EACH MOTOR WITH ITS AS POSSIBLE UNDER OPERATING CONDITIONS FOR A OVER TIME TO DEMONSTRATE CORRECT ALIGNMENT, W	/IRING	1X 1X 2700 2700 s's Su
								SQUARE TO THE BUILDING AND HELD T	TIGHT TO THE BUILDING CONSTRUCTION.  M. MUSIC, ALARM AND SECURITY WIRING	EACH BOX, PANEL, AN	ID OUTLET. IDENTIFICATION SHA UIT SUPPLYING THE OUTLET. AT	LL, AS A MINIMUM, INDICATE	CAPACITY, SPEED, AND	D OVERALL SATISFACTORY OPERATION. CHECK THAT I IEATERS HAVE BEEN INSTALLED BY READING THE MOTO	THE	
•								RUN ABOVE ACCESSIBLE CEILINGS SHA	•	SERVED AND ITS LOC	ATION SHALL BE INDICATED. PRO	OVIDE A MINIMUM OF 8 IN.	NAMEPLATE. ADJUST	THE SIZE OF THE OVERLOAD HEATER AS REQUIRED TO AMEPLATE. OPERATE ALL MAIN AND FEEDER SWITCHE	)	•
								AHJ. VERIFY ALL REQUIREMENTS PRIC	OR TO INSTALLATION. METALLIC CONDUIT IDED ONLY WHERE RUN INSIDE WALLS. THE	PROVIDE FOR A FUTU	RE DEVICE IN THE BOX.		BREAKERS.			
								DRAWINGS INDICATE THE REQUIRED S HEREINAFTER SPECIFIED), THE POINTS	SIZE OF ALL RACEWAYS (EXCEPT AS S OF TERMINATION AND THE SUGGESTED	<u>BOXES</u> EACH BOX SHALL BE	OF PROPER SIZE TO ACCOMMODA	ATE THE DEVICE AND		H CIRCUITS SERVED FROM THE LIGHTING PANELBOARD REFULLY BALANCE THE ACTUAL OPERATING LOAD ON		Issue: Date
2								ROUTING. HOWEVER, THE INSTALLER I COORDINATION WITH BUILDING STRUC	IS RESPONSIBLE FOR PROPER CTURE AND THE WORK OF OTHER TRADES.		H IT IS SHOWN. BOXES FOR WALL TE WITH PLASTER RING OR TILE R			ILL LOAD IS TURNED ON AND THE SYSTEM IS OPERATIN NBALANCE SHALL NOT EXCEED 10%. DURING FINAL	IG AT	Permit Submittal 10.25
_								WHETHER OR NOT SPECIFICALLY SHOW	WS, FITTINGS, JUNCTION AND PULL BOXES, WN ON DRAWINGS, THAT MAY BE REQUIREI	ED WALLS SHALL BE SPE	RE REQUIRED. BOXES FOR INSTA CIAL SQUARE CORNER MASONR	Y TYPE. BOXES FOR	PERFORM COMPLETE	I THE TEST INSTRUMENTS AND QUALIFIED PERSONNEL TESTING. COSTS OF ALL TESTING, INCLUDING THE INC		
								FOR BOTH BRANCH AND FEEDER CIRC	RDS OF GOOD PRACTICE. WHERE CONDUIT UITS ARE RUN CONCEALED, THEY MAY BE	WITH 3/8 IN. "NO-BOLT	NG FIXTURES SHALL BE FOUR INC "FIXTURE STUD. BOXES FOR FLO	OOR OUTLETS SHALL BE	<b>EQUIPMENT TO MEET 1</b>	IG OCCASIONED BY DEFECTS AND FAILURES OF THE THE SPECIFICATIONS, SHALL BE BORNE BY THE		
								IS UTILIZED. RACEWAY SIZES ARE BASE	G PROVIDING THE SHORTEST POSSIBLE RU ED ON THE USE OF COPPER CONDUCTORS	S HEREINAFTER NOTED	FEEL BOXES WITH ADJUSTABLE T OOR SHOWN. ALL BOXES SHALL E	BE FURNISHED COMPLETE	CONTRACTOR.	DI ETION OF THE DROJECT A FINAL INCRECTION		
•								AND N.E.C. FILL.	ECTDICAL DACEMANS AND SUALL	NOTED, PLACE OUTLE	R AND/OR DEVICE PLATE AND DEV ET BOXES AT THE FOLLOWING HE SWITCHES 48" AND CONVENIENCES	IGHTS (BOX CENTER TO		PLETION OF THE PROJECT A FINAL INSPECTION HE LOCAL INSPECTING AUTHORITY.		
								CONDUIT SHALL BE CONSTRUED AS EL CONFORM TO THE FOLLOWING: CONCINTERIOR PARTITIONS - EMT WITH SET		NOTED OTHERWISE O	. SWITCHES 48" AND CONVENIENG ON DRAWINGS.	OE OUTLETO TO UNLESS	END OF SECTION 16000	0		
								OR BELOW INTERIOR SLABS - GRS. (NO	SCREW TYPE FITTINGS. UNDERGROUND DTE: PVC CONDUIT IS PERMITTED OUTSIDE ETC. ELBOWS SHALL BE GRS). EXPOSED O	E TELEPHONE, ALARM,	AND SIGNAL SYSTEM OUTLET BO HERE ONLY ONE CONDUIT ENTER					Sheet Title:
								BUILDING EXTERIOR - GRS.	1. 3. 2250 TO STALE DE GINO). EAFOSED O	OTHERWISE SPECIFIE	TERE ONLY ONE CONDUIT ENTER ED OR INDICATED ON DRAWINGS, DX SHALL BE 4-11/16 IN. SQUARE N	WHERE TWO OR MORE				ELECTRICAL
1								CONDUIT BENDS SHALL BE MADE TO THE PULLING CONDUCTORS AND TO PROVI	HE LARGEST POSSIBLE RADIUS FOR EASE INDEANAILED APPEARANCE.	'	The second secon	SUITABLE				1 SPECIFICATIONS
								EQUIPMENT AND CONDITIONS PERMITT			S AS INDICATED ON DRAWINGS, H JRAL DRAWINGS AND LOCATE LO	•				
								IN 24 IN. RADIUS; 3 IN 36 IN. RADIUS.		STRIKE SIDE OF THE						
								GRS CONDUIT SHALL BE CUT WITH POV	WER OR HACKSAW AND CLEANLY REAMED	D <u>SYSTEM GROUNDING</u>						F502