MCC Longview HT Addition/Renovation PERMIT/BID DOCUMENTS and FINAL DEVELOPMENT PLAN



RELEASED FOR CONSTRUCTION As Noted on Plans Review velopment Services Department

evelopment Services Departmer Lee's Summit, Missouri 12/30/2021



BNIM Architects Architect 2460 East Pershing Road, Suite 100, Jackson County, Kansas City MO 64108

p.816.783.1500 f.816.783.1501 MO State Certificate of Authority #00235006

KH Engineering Group 13426 West 99th Street, Johnson County, Lenexa, KS 66215 913-825-9381

Certificate of Authority

Taliaferro & BrowneCivil Engineer1020 East 8th Street, Jackson County, Kansas City, MO 64106816-283-2456

Lankford Fendler + Associates M

Associates MEPF Engineer 1730 Walnut Street, Jackson County, Kansas City, MO 64108 816-221-1411

MCC Longview HT Addition/Renovation

500 SW Longview Road Lee's Summit, MO 64081 Project No: 20008.00

PERMIT/BID DOCUMENTS

Issued: September 23, 2021

Rev. #	Description	Date Issued
1	Addendum #3	10/27/21

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15 16 17 18 19 20 21 22 23 24	25 26	27	28	29 30	31	32 33	34	35
GENERAL NOTES								
1. THESE GENERAL NOTES APPLY TO ALL TRADES. THESE NOTES ARE PROVIDED FOR GENERAL PROJECT INFORMATION AND ARE	E TO BE				SHEE	T INDEX		
APPLIED TO ALL AREAS OF THE PROJECT WHERE WORK IS BEING UNDERTAKEN. 2. ALL WORK SHALL COMPLY WITH APPLICABLE LAWS, CODES, AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION TIME OF CONSTRUCTION. IN CASE OF CONFLICT BETWEEN REQUIREMENTS, THE MOST RESTRICTIVE SHALL APPLY.	IN FORCE AT		#			Sheet Name		
 UPON EXAMINATION/FAMILIARIZATION WITH THE CONTRACT DOCUMENTS AND JOB SITE VISIT, ANY DISCREPANCIES, OMISSIO AMBIGUITIES AND/OR CONFLICTS SHALL BE REPORTED TO THE ARCHITECT IN WRITING FOR CORRECTION PRIOR TO SUBMISSI 			GENERAL G000 G001	COVER SHE	ET EX, PROJECT INFORMATIOI			
 EXECUTION OF CONSTRUCTION CONTRACT. THE CONTRACTOR SHALL ADHERE TO THE CONTRACT DOCUMENTS. NO MODIFICATIONS, REVISIONS OR CHANGES SHALL BE UNLESS SPECIFICALLY INSTRUCTED AND APPROVED. 	UNDERTAKEN		G101 CIVIL		EW DATA, LIFE SAFETY PL/			
 ALL WORK LISTED, SHOWN OR IMPLIED IN THE CONTRACT DOCUMENTS SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACT WHERE NOTED OTHERWISE. CONTRACTORS SHALL CLOSELY COORDINATE THEIR WORK WITH THE WORK OF OTHER CONTRACT 			C001 C002	SITE LAYOU SITE GRADI				
 VENDORS TO ASSURE THAT ALL WORK IS PERFORMED IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. 6. COORDINATE THE REQUIREMENTS OF ALL DRAWINGS AND SPECIFICATIONS. EACH CONTRACTOR AND/OR SUBCONTRACTOR SOLUTION OF ALL TRADECIDENTIAL OF ALL TRADECIDIENT OF ALL TRADECIDENTIAL OF ALL TRADECIDIENTE ALL TRADECIDENTIAL OF ALL TRADECIDOR AL			TS001 ARCHITECTURAL E					
PROVIDED WITH A FULL SET OF CONSTRUCTION DOCUMENTS TO ENSURE COORDINATION OF ALL TRADES/DISCIPLINES. CONF BE REPORTED TO THE OWNER AND ARCHITECT PRIOR TO THE EXECUTION OF THE WORK. 7. ALL CONTRACTORS, SUBCONTRACTORS AND THEIR AGENTS SHALL HOLD ALL APPLICABLE AND REQUIRED LICENSES FOR THE			D100 D101		URAL DEMOLITION PLANS N PHOTOGRAPHS			
JURISDICATION IN WHICH THE WORK WILL BE PERFORMED. 8. DO NOT SCALE DRAWINGS. CALCULATE AND MEASURE REQUIRED DIMENSIONS. ALL DIMENSIONS ARE TO BE TAKEN FROM DE			ARCHITECTURAL A000			IC SYMBOLS, & ABBREVIATI	ONS	
DATUM POINT. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER GRAPHIC REPRESENTATION. 9. VERIFY DIMENSIONS IN FIELD. NOTIFY ARCHITECT IMMEDIATELY UPON DISCOVERY OF DISCREPANCIES BETWEEN ACTUAL CON DRAWINGS AND PRIOR TO COMMENCING WITH WORK IN QUESTION.	NDITIONS AND		A001 A002 A010	ADA & INST	ALLATION STANDARDS ALLATION STANDARDS RIZONTAL AND VERTICAL	ASSEMBI IFS		
10. UNLESS NOTED OTHERWISE, PLAN DIMENSIONS ARE AS FOLLOWS: EXTERIOR DIMENSIONS TO FACE OF BRICK VENEER, BRICK MASONRY, CAST-IN-PLACE CONCRETE, PRECAST CONCRETE, AND CONCRETE MASONRY UNIT OPENING OR COLUMN CENTERI	LINE.		A050 A051	ARCHITECT	URAL SITE PLAN & BID AL			
STOREFRONT AND CURTAINWALL DIMENSIONS TO FACE OF ROUGH OPENINGS INCLUDING PERIMETER JOINT. INTERIOR DIMEN FACE OF FINISH WALL, FURRED OR NOT. 11. INSTALL DOORS NOT LOCATED BY DIMENSION SUCH THAT EDGE OF DOOR FRAME TO FACE OF ADJACENT WALL IS 0'4". SEE			A100 A101	FLOOR PLA FLOOR PLA	N			
FOR DETAILS. 11. PRIOR TO PROCEEDING WITH WORK, COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND ROUGH-INS THROUGH SLABS,			A110 A200		UILDING ELEVATIONS			
CEILINGS, AND ROOFS FOR DUCTS, PIPES, CONDUITS, CABINETS AND EQUIPMENT. 12. VERIFY EXISTING UTILITY LOCATIONS USING STATE ONE CALL SYSTEM BEFORE CONSTRUCTION STARTS. COORDINATE NEW UT LOCATIONS. CONNECTIONS, PENETRATIONS, AND SERVICE ENTRANCES WITH FINDINGS.	TILITY		A300 A500 A501	INTERIOR EI	VALL SECTIONS LEVATIONS AND DETAILS LEVATIONS AND DETAILS			
 PROVIDE ACCESS DOORS FOR CONCEALED VALVES, DAMPER CONTROLS, FIRE DAMPER LINKAGE, AND ELECTRICAL JUNCTION COORDINATE MEP, AV/IT, SECURITY, AND LIFE SAFETY DEVICE/FIXTURE LOCATIONS TO AVOID CONFLICTS WITH CASEWORK, D 			A650 A800	INTERIOR S		REFERENCE ONLY)		
OTHER TRADES. 14. PROVIDE CONSTRUCTION AND CONTROL JOINTS IN CONCRETE SLABS ON GRADE AND TOPPING SLABS PER ACI 224.3R-95 AN			STRUCTURAL S001	GENERAL N				
OR DETAILED ON STRUCTURAL DRAWINGS. 15. SEAL PENETRATIONS OF NEW OR EXISTING FIRE-RATED FLOORS AND CEILINGS WITH FIRE-RESISTIVE SYSTEMS (078413) AND MATCH RATING OF ADJACENT CONSTRUCTION UNLESS NOTED OTHERWISE.) (078446) TO		S003 S005	STRUCTUR/	TYPICAL DETAILS AL STEEL TYPICAL DETAILS	S		
 INSTALL JOINT SEALANT (079200) AT EXTERIOR SIDE OF JOINTS, SEAMS, CONNECTIONS, OR OPENINGS WHICH WOULD ALLOV AIR INFILTRATION UNLESS NOTED OTHERWISE. 	W WATER OR		S006 S100 S101	BRACE FRA FOUNDATIO FRAMING P	IN PLAN			
 SEAL PERIMETER JOINTS, PENETRATIONS, VOIDS, AND PERIMETER OF DEVICE WALL BOXES THROUGH INTERIOR GYPSUM BOA OF EXTERIOR WALLS WITH LATEX JOINT SEALANT (079200). DROVIDE CONCEALED DLOCKING FOR ALL WALL MOUNTED ITEMS (FOUNDMENT, HANDRALLS, MULLWORK, ACCESSORIES, ETC.) 			S500 S501	SECTIONS &	& DETAILS			
 PROVIDE CONCEALED BLOCKING FOR ALL WALL MOUNTED ITEMS (EQUIPMENT, HANDRAILS, MILLWORK, ACCESSORIES, ETC MAY NOT BE WHOLLY SHOWN/INDICATED ON DRAWINGS. WHERE CONSTRUCTION IS OF A NONCOMBUSTIBLE TYPE PROVIDE S OR FIRE RETARDANT TREATED (FRT) WOOD. 			MEP MEP100	SPECIFICAT	IONS			
			MEP101 MEP102	SPECIFICAT SPECIFICAT	IONS			
			MEP103 MECHANICAL DM100		IUNS N - FLOOR PLAN - LEVEL 1	1.8.2 - MECHANICAI		
			M100 M200	PHASE 0 - F	FLOOR PLAN - LEVEL 1 & 2		BOLS	
	1 Sett		PLUMBING P100	PHASE 0 - F	FLOOR PLAN - LEVEL 1 - P	LUMBING		
	and		P200 FIRE PROTECTION			NERAL NOTES, AND SYMBO	LS	
			FP100 FP101 ELECTRICAL		ELOOR PLAN - LEVEL 1 - F ELOOR PLAN - LEVEL 2 - F			
			DE100 E100		N - FLOOR PLAN - LEVEL 1 FLOOR PLAN - LEVEL 1 & 2			
			E200 E300	PHASE 0 - F	FLOOR PLAN - LEVEL 1 & 2 FLOOR PLAN - LEVEL 1 & 2 FLOOR PLAN - LEVEL 1 & 2	2 - LIGHTING		
			E400 E500	ELECTRICAI ELECTRICAI	L DETAILS L SCHEDULES			
	SW Kessler Dr		E501	ELECTRICAL	L SCHEDULES, GEN NOTES	S & SYMBOLS		

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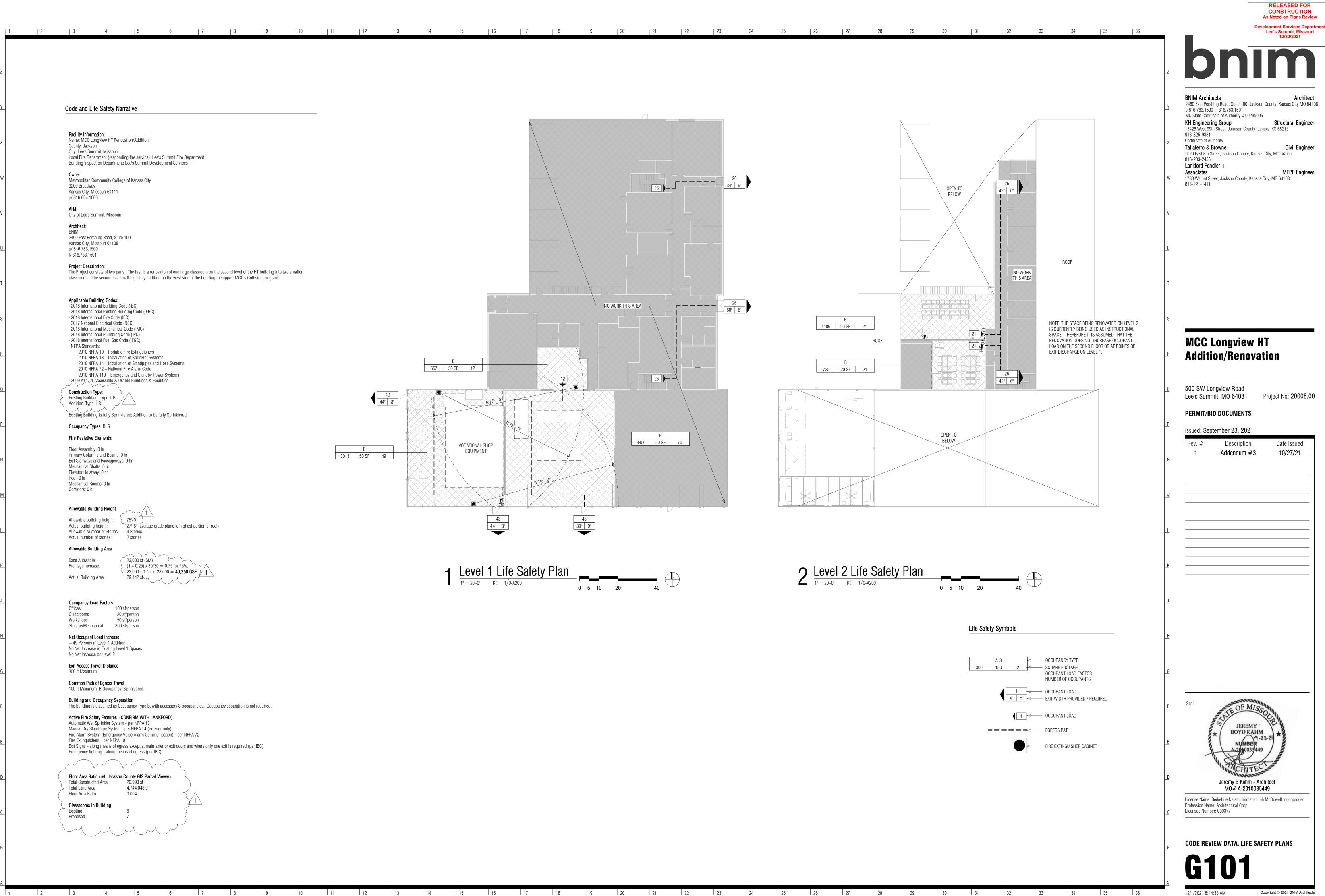




NOT TO SCALE RE: /

	CONSTRUCTIO As Noted on Plans R Development Services Do Lee's Summit, Miss
hn	12/30/2021
BNIM Architects 2460 East Pershing Road, Suite 100, p.816.783.1500 f.816.783.1501 MO State Certificate of Authority #00	
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Issued: September 23, 202	21
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JERE BOYD K NUME A-2000 HCHI Jeremy B Kahr	AHM 9-23-21 39449 TEC n - Architect 10035449
Jeremy B Kahr MO# A-20 License Name: Berkebile Nelson Imm Profession Name: Architectural Corp.	n - Architect 10035449 enschuh McDowell Incorporated
Jeremy B Kahr MO# A-20 License Name: Berkebile Nelson Imm Profession Name: Architectural Corp. Licensee Number: 000377	n - Architect 10035449 enschuh McDowell Incorporatec

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<u>Z</u>					
<u>Y</u>	Code and Life Safety Narrative				
<u>X</u>	Facility Information: Name: MCC Longview HT Renovation/Addition County: Jackson City: Lee's Summit, Missouri Local Fire Department (responding fire service): Lee's Summit Fire Department Building Inspection Department: Lee's Summit Development Services				
W	Owner: Metropolitan Community College of Kansas City 3200 Broadway Kansas City, Missouri 64111 p/ 816.604.1000				
<u>V</u>	AHJ: City of Lee's Summit, Missouri				
U	Architect: BNIM 2460 East Pershing Road, Suite 100 Kansas City, Missouri 64108 p/ 816.783.1500 f/ 816.783.1501				
<u>T</u>	Project Description: The Project consists of two parts. The first is a renovation of one large classroom on the second level of the HT building into two smaller classrooms. The second is a small high-bay addition on the west side of the building to support MCC's Collision program.				
<u>S</u>	Applicable Building Codes: 2018 International Building Code (IBC) 2018 International Existing Building Code (IEBC) 2018 International Fire Code (IFC) 2017 National Electrical Code (NEC) 2018 International Mechanical Code (IMC) 2018 International Plumbing Code (IPC)				
<u>R</u>	 2018 International Fuel Gas Code (IFGC) NFPA Standards: 2010 NFPA 10 – Portable Fire Extinguishers 2010 NFPA 13 – Installation of Sprinkler Systems 2010 NFPA 14 – Installation of Standpipes and Hose Systems 2010 NFPA 72 – National Fire Alarm Code 2010 NFPA 110 – Emergency and Standby Power Systems 				55
<u>Q</u>	2009 A117.1 Accessible & Usable Buildings & Facilities Construction Type: Existing Building: Type II-B Addition: Type II-B		44	42 F" 8"	
<u>P</u>	Existing Building is fully Sprinklered; Addition to be fully Sprinklered. Occupancy Types: B, S Fire Resistive Elements:				
<u>N</u>	Floor Assembly: 0 hr Primary Columns and Beams: 0 hr Exit Stairways and Passageways: 0 hr Mechanical Shafts: 0 hr Elevator Hoistway: 0 hr Roof: 0 hr	3013	B 50 SF 4	9	
<u>M</u>	Mechanical Rooms: 0 hr Corridors: 0 hr Allowable Building Height				
L	Allowable building height: Actual building height: Allowable Number of Stories: Actual number of stories: 27'-6" (average grade plane to highest portion of roof) 3 Stories 2 stories				
<u>K</u>	Allowable Building AreaBase Allowable: Frontage Increase: $23,000 \text{ sf (SM)}$ $(1 - 0.25) \times 30/30 = 0.75, \text{ or } 75\%.$ $23,000 \times 0.75 + 23,000 = 40,250 \text{ GSF}$ Actual Building Area: $29,442 \text{ sf}$ $29,442 \text{ sf}$				
J					
	Occupancy Load Factors:Offices100 sf/personClassrooms20 sf/personWorkshops50 sf/personStorage/Mechanical300 sf/person				
<u>H</u>	Net Occupant Load Increase: + 49 Persons in Level 1 Addition No Net Increase in Existing Level 1 Spaces No Net Increase on Level 2 Exit Access Travel Distance				
<u>G</u>	300 ft Maximum Common Path of Egress Travel 100 ft Maximum, B Occupancy, Sprinklered				
<u>F</u>	Building and Occupancy Separation The building is classified as Occupancy Type B, with accessory S occupancies. Occupancy separation is not required. Active Fire Safety Features (CONFIRM WITH LANKFORD) Automatic Wet Sprinkler System - per NFPA 13 Manual Dry Standpipe System - per NFPA 14 (exterior only) Fire Alarme Standpipe Alarme Communication)				
<u>E</u>	Fire Alarm System (Emergency Voice Alarm Communication) - per NFPA 72 Fire Extinguishers - per NFPA 10 Exit Signs - along means of egress except at main exterior exit doors and where only one exit is required (per IBC) Emergency lighting - along means of egress (per IBC)				
D	Floor Area Ratio (ref: Jackson County GIS Parcel Viewer) Total Constructed Area 20,990 sf Total Land Area 4,744,043 sf Floor Area Ratio 0.004				
<u>C</u>	Classrooms in Building Existing 6 Proposed 7				
<u>B</u>					



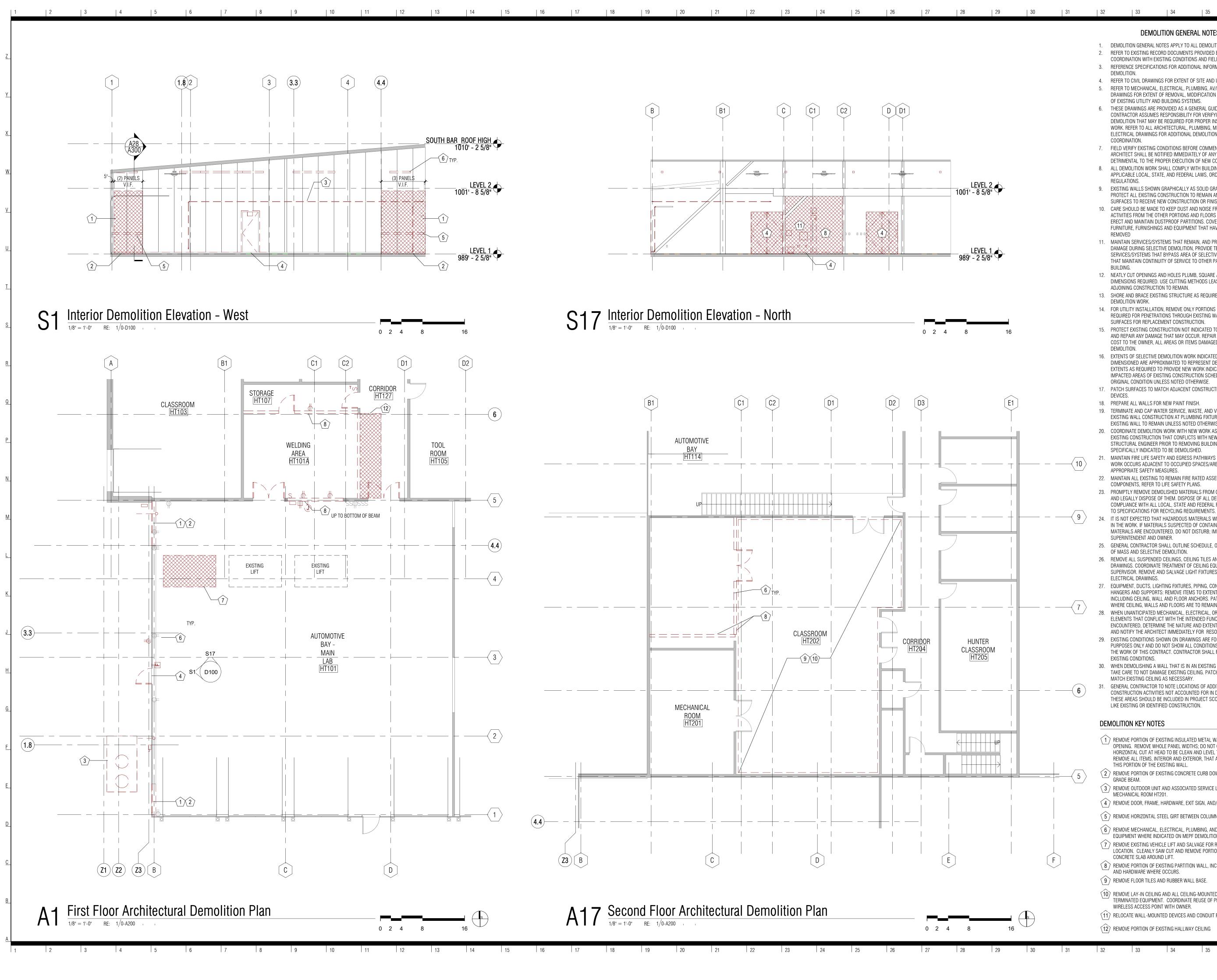
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Civil Engineer

MEPF Engineer

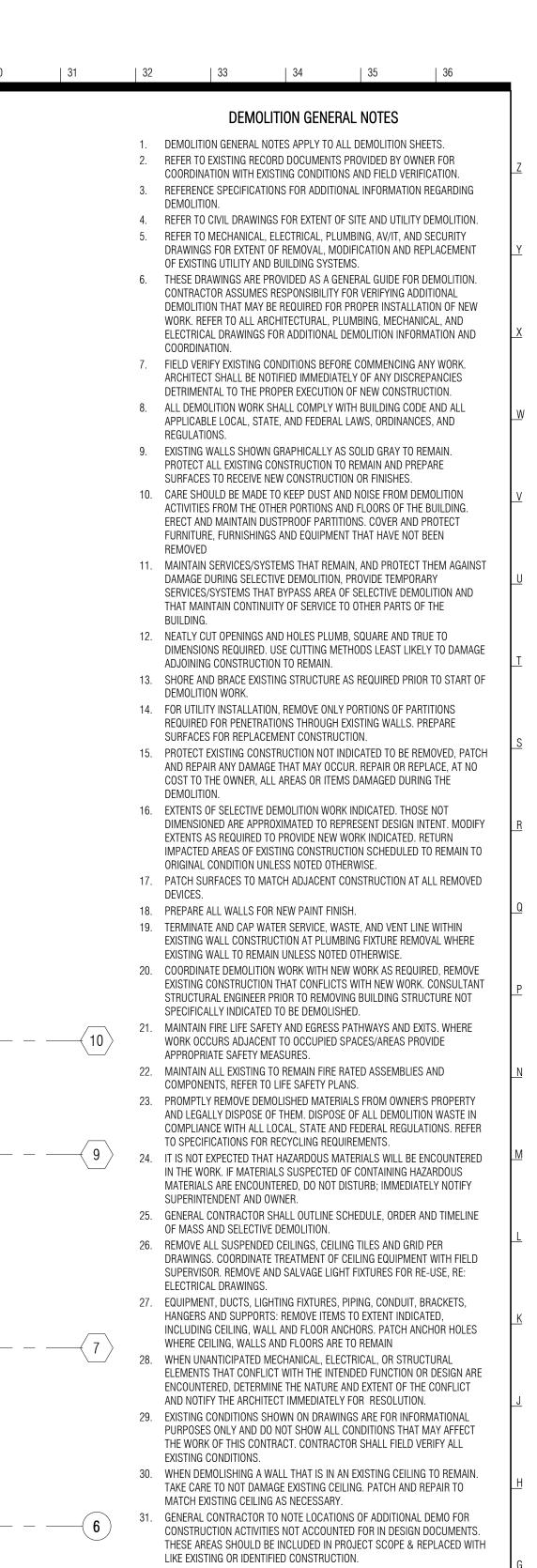
Date Issued

10/27/21



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Lee's Summit, Missouri 12/30/2021



DEMOLITION KEY NOTES

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(1) REMOVE PORTION OF EXISTING INSULATED METAL WALL PANEL FOR NEW OPENING. REMOVE WHOLE PANEL WIDTHS; DO NOT CUT VERTICALLY. HORIZONTAL CUT AT HEAD TO BE CLEAN AND LEVEL TO RECEIVE NEW TRIM. REMOVE ALL ITEMS, INTERIOR AND EXTERIOR, THAT ARE ATTACHED TO THIS PORTION OF THE EXISTING WALL.

- 2 REMOVE PORTION OF EXISTING CONCRETE CURB DOWN TO T.O. EXISTING GRADE BEAM.
- (3) REMOVE OUTDOOR UNIT AND ASSOCIATED SERVICE LINES BACK TO MECHANICAL ROOM HT201.
- (4) REMOVE DOOR, FRAME, HARDWARE, EXIT SIGN, AND/OR STEEL SUPPORT.
- (5) REMOVE HORIZONTAL STEEL GIRT BETWEEN COLUMNS.
- (6) REMOVE MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE SUPPRESSION EQUIPMENT WHERE INDICATED ON MEPF DEMOLITION DRAWINGS.
- 7 REMOVE EXISTING VEHICLE LIFT AND SALVAGE FOR REUSE IN NEW LOCATION. CLEANLY SAW CUT AND REMOVE PORTION OF EXISTING
- CONCRETE SLAB AROUND LIFT. (8) REMOVE PORTION OF EXISTING PARTITION WALL, INCLUDING DOOR, FRAME, AND HARDWARE WHERE OCCURS.
- (9) REMOVE FLOOR TILES AND RUBBER WALL BASE.
- (10) REMOVE LAY-IN CEILING AND ALL CEILING-MOUNTED OR CEILING-TERMINATED EQUIPMENT. COORDINATE REUSE OF PROJECTOR AND WIRELESS ACCESS POINT WITH OWNER.
- (11) RELOCATE WALL-MOUNTED DEVICES AND CONDUIT FOR NEW OPENING

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 $\langle 12 \rangle$ REMOVE PORTION OF EXISTING HALLWAY CEILING

33

BNIM Architects

- Architect 2460 East Pershing Road, Suite 100, Jackson County, Kansas City MO 64108 p.816.783.1500 f.816.783.1501 MO State Certificate of Authority #00235006
- Structural Engineer KH Engineering Group 13426 West 99th Street, Johnson County, Lenexa, KS 66215
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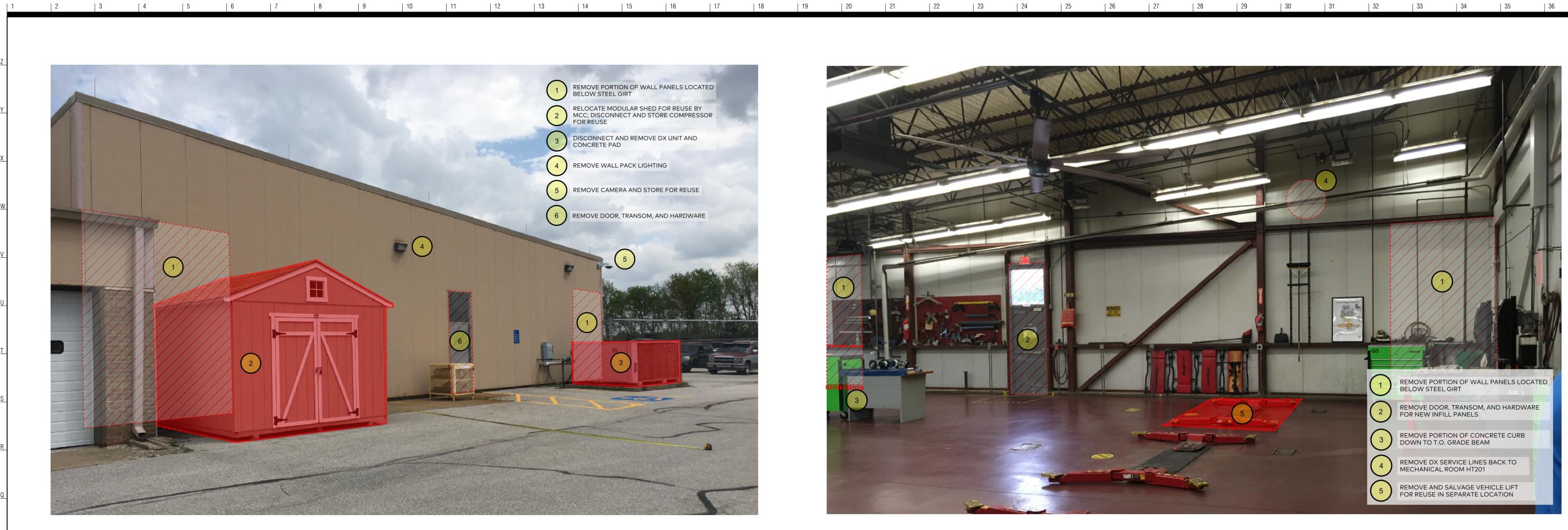
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500 SW Longview Road Lee's Summit, MO 64081 Project No: 20008.00

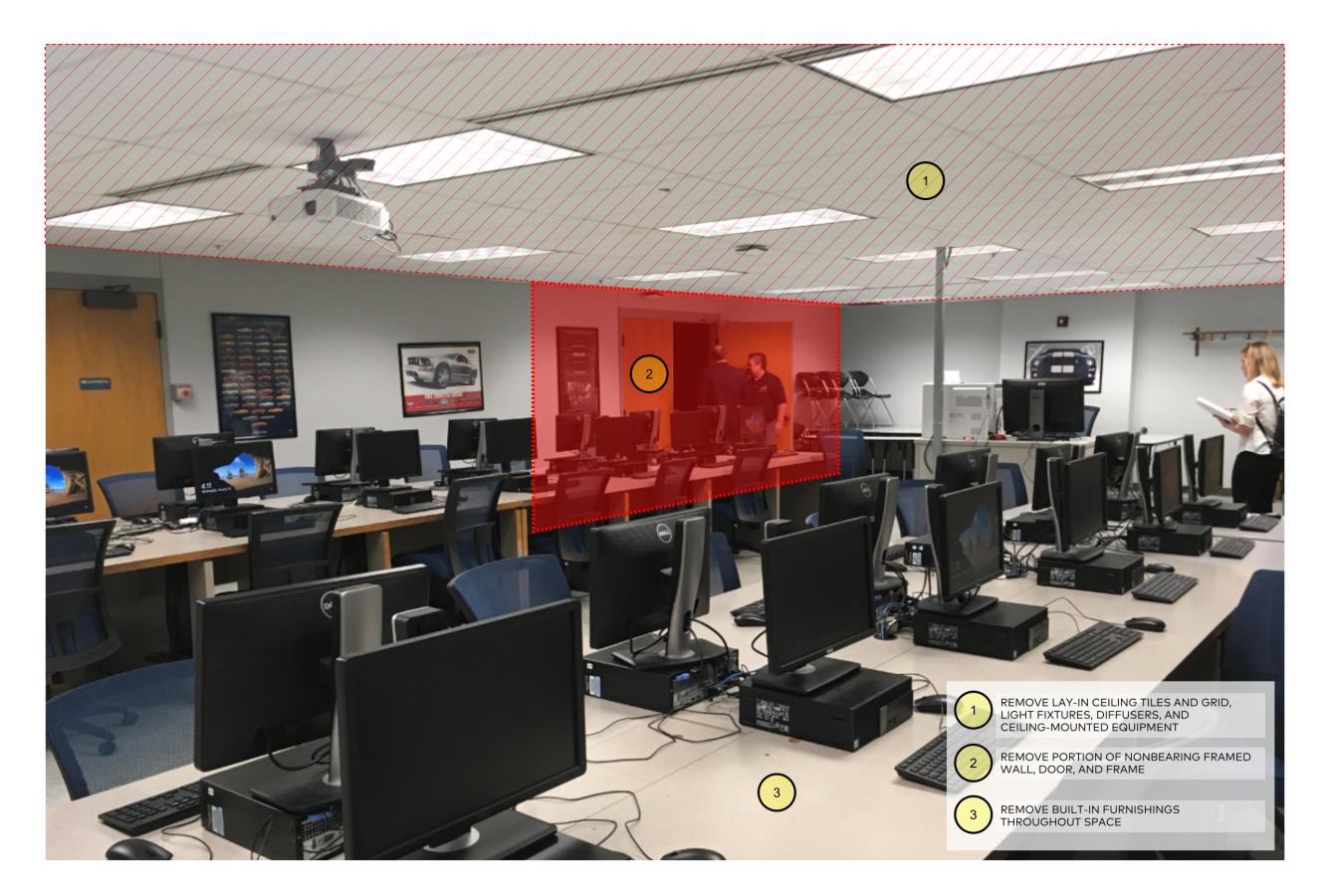
PERMIT/BID DOCUMENTS

Issued: September 23, 2021 Date Issued Description Rev. # Seal JEREMY **BOYD KAHM** 19.23. UMBER Jeremy B Kahm - Architect MO# A-2010035449 License Name: Berkebile Nelson Immenschuh McDowell Incorporated Profession Name: Architectural Corp. Licensee Number: 000377 **ARCHITECTURAL DEMOLITION PLANS** D100

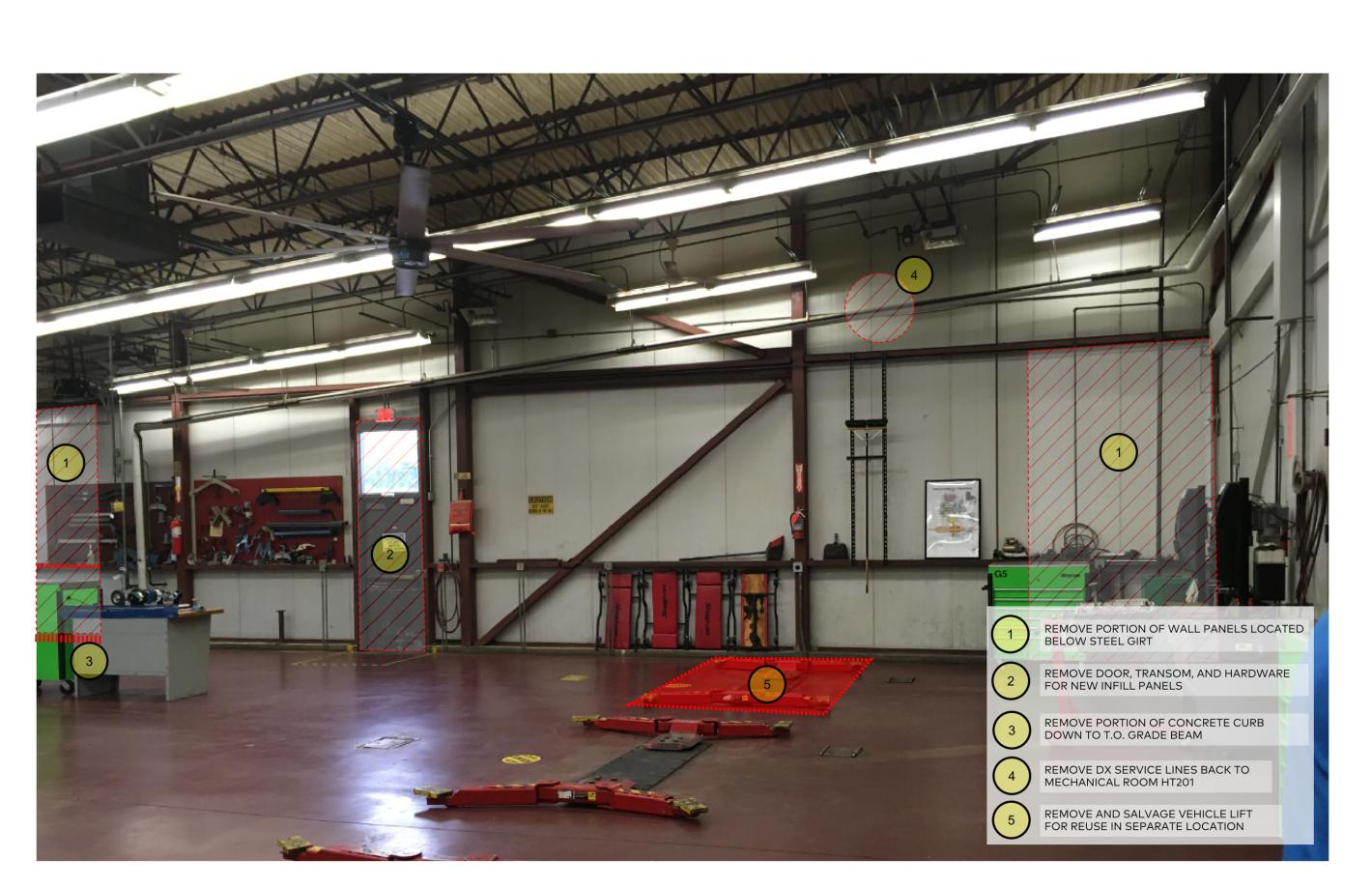
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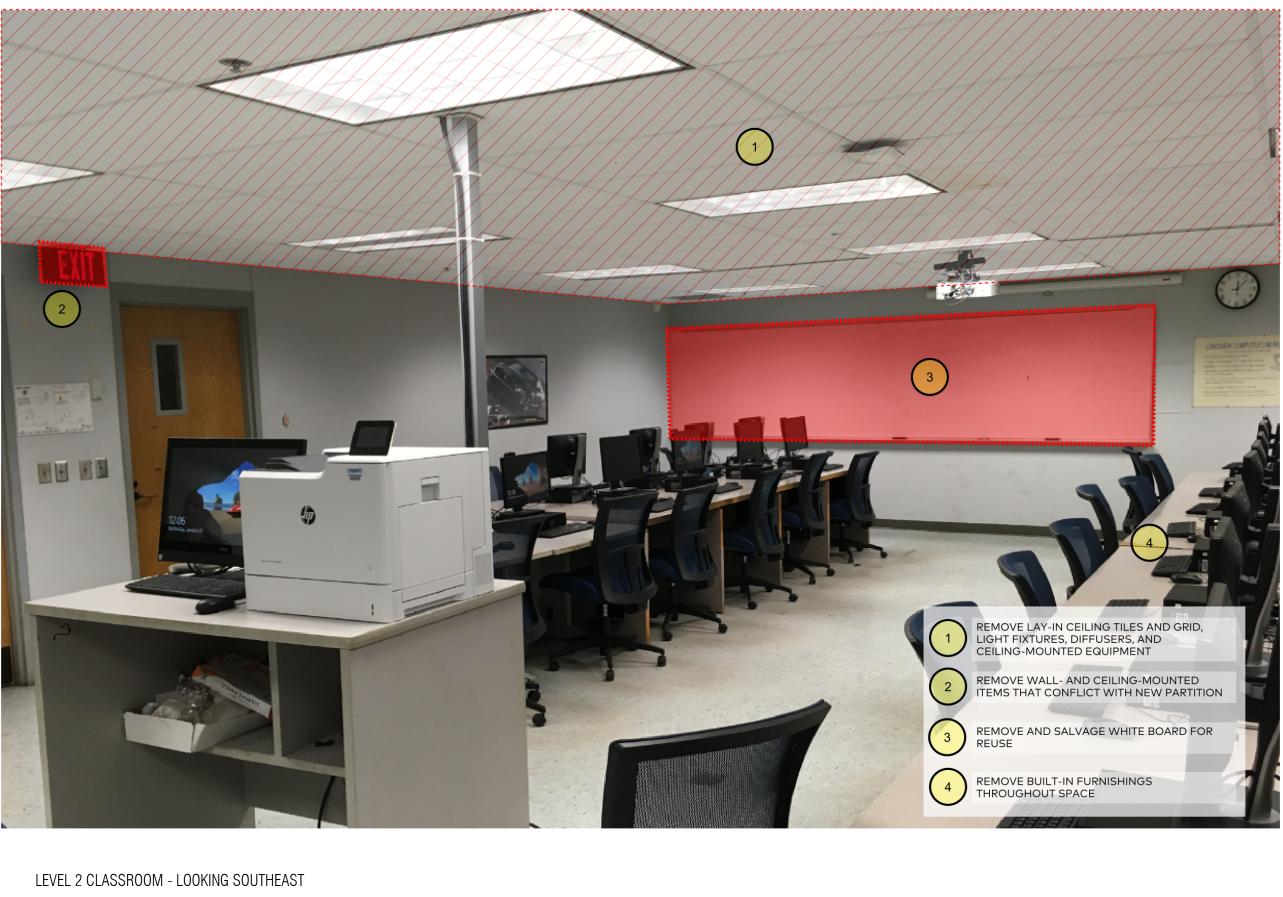
WEST HIGH BAY WALL - EXTERIOR



LEVEL 2 CLASSROOM - LOOKING NORTHWEST



WEST HIGH BAY WALL - INTERIOR

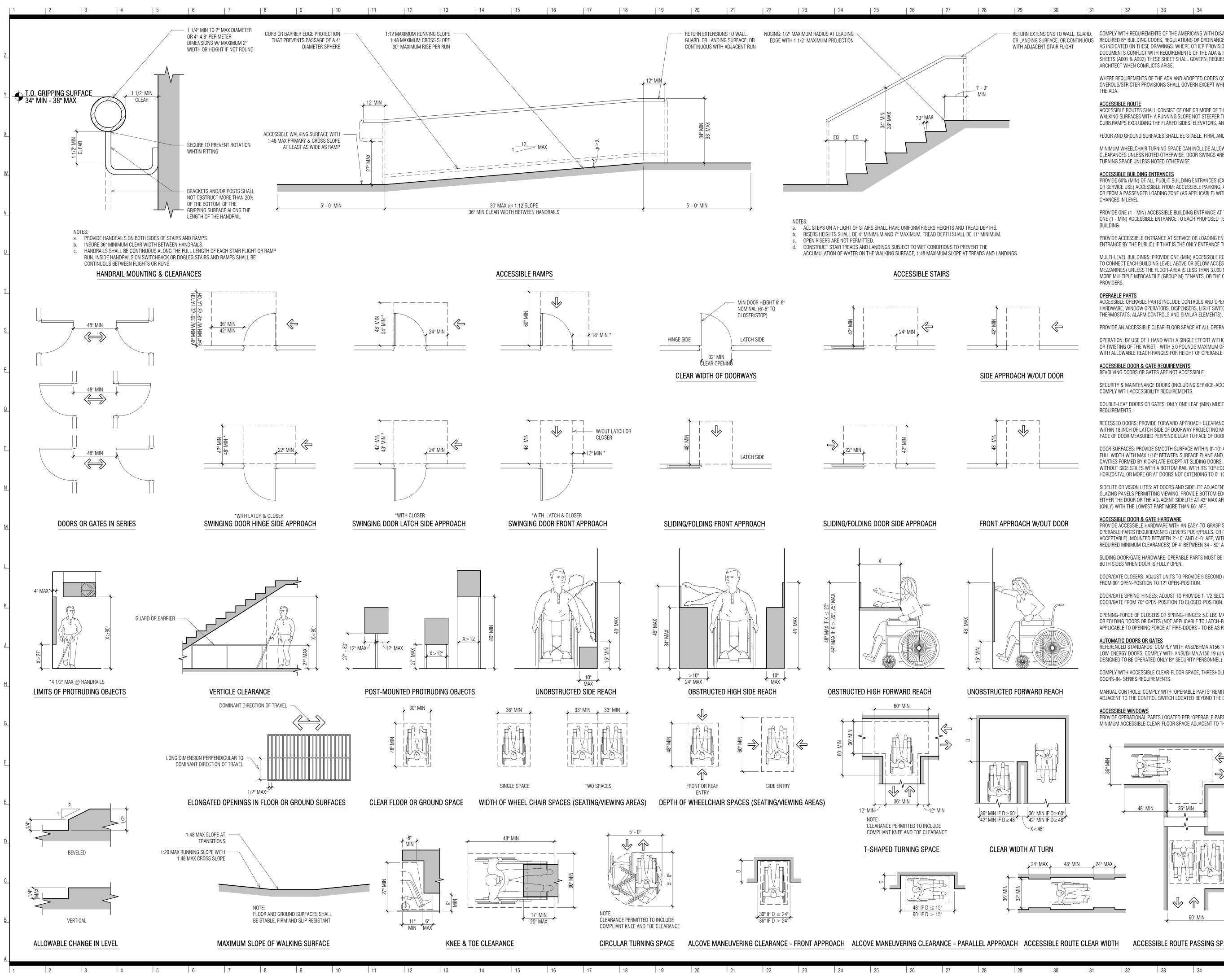


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Jeremy B Kah MO# A-20 License Name: Berkebile Nelson Imm Profession Name: Architectural Corp. Licensee Number: 000377	10035449 nenschuh McDowell Incorporated
Demolition photogra	
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e e Finish Floor	ABV AFF	Cold Water Column Communication Outlet	CW COL COMM	Flat Head Machine Screws Flat Head Wood Screws Floor	FHMS FHWS FLR	Maintenance Manhole Manual	MAINT MH MAN	Sheet Similar Sound Transmission Coefficient	SHT SIM STC	SCHEMATIC DWG NEW WALL	(1)
e Suspended Ceiling ss	ASC ACC	Computer Terminal Conc. Masonry Unit	CRT CMU	Floor Cleanout Floor Drain	FCO FD	Manufacturer Masonry	MFR MAS	South Southeast	S SE	EXISTING WALL TO BE REMOVED	<u>Lev</u> el
ss Door ss Floor	ACC DR ACC FL	Concrete Condenser or Condensate	CONC COND	Flourescent Flow Line	FLUOR FL	Masonry Opening Material	MO MATL	Southwest Specification	SW SPEC		T U -U
ss Panel stical	ACC PNL ACOUST	Conduit Conference	CND CONF	Foot, Feet Footing	FT FTG	Maximum Mechancial	MAX MECH	Square	SQ FT or SF	EXISTING WALL TO REMAIN	N
stical Panel stical Tile	AP AT	Connect(ed)(ion) Construction	CONN CONSTR	Forest Stewardship Council Foundation	FSC FDTN	Medium Medium-density Fiberboard	MED MDF	Square Foot Staggered	SQ STAG		
stical Wall Treatement onitrile-butadiene-styrene	AWT ABS	Construction Change Directive Construction Manager	CCD CM	Frame Full Size	FRM FS	Medium-density Overlay Member	MD0 MBR	Stainless Steel	ST STL or SS	TEMPORARY WALL	14
ndum	ADN	Continuous	CONT	Furnish	FURN	Membrane	MEMB	Standard Stell	STD STL	$\mathbf{x} \times \mathbf{x} \times \mathbf{x} \times \mathbf{x} \times \mathbf{x} \times \mathbf{x}$	(A200
ional sive	ADD'L ADH	Contract Limit Line Contractor	CLL CONTR	Furnished By Others Furniture, Furnishings & Equipment	FBO FF&E	Metal Meter	MTL M	Storage Structural Steel	STOR STRUCT	CMU WALL	
eent egate	ADJ AGG	Control Joint Cooling tower	CJT CT	Furring Future	FUR FUT	Mezzanine Millimeter	MEZZ MM	Supply Air	STL SA	STUD WALL	
onditioning onditioning Unit	A/C ACU	Coordinate Cork	COORD CK	G Gage or Gauge	GA	Millwork Minimum	MLWK MIN	Suspen(ded)(sion) Switch	SUSP SW		
andling nate	AHU ALT	Corner Guard Corridor	CG CORR	Gallon Galvanized	GAL GALV	Minute Mirror	MIN MIR	System	SYS	BRICK WALL	
inum	AL OR ALUM	Corrugated Corrugated Metal Pipe	CORR CMP	General Contract(or) Generator	GC GEN	Miscellaneous Mixture	MISC MIX	Tackboard	TKBD		
or Bolt or, Anchorage	AB ANCH	Course(s) Cubic Feet Per Minute	CRS CFM	Glass Glass Reinforced Gypsum	GL GRG	Modified, Modular Molding	MOD MLDG	Telephone Television	TEL TV	GLASS BLOCK WALL	
ized ment	ANOD APT	Cubic Foot Cubic Inch	CF	Glass-fiber Reinforced Concrete Glued-Laminated	GFRC GLU-LAM	Mortar Mounted	MTR MTD	Temperature Tempered Glass	TEMP TEMP GL		<u>A9B320</u> SIM
ximate tect's Supplemental Instruction	APPROX ASI	Cubic Yard Cylinder	CY CYL	Grab Bar Grade	GB GR BM	Mullion	MULL	Textured Finish Thermal	TEX FIN THERM	CONCRETE WALL	
tect(ural) tectural Precast Concrete	ARCH	D	DI	Grade Beam	GR	Natural Nation Deduction Coefficient	NAT	Thick(ness) Tiolet	THK TLT	PRECAST CONCRETE WALL	C
Drain	AD	Deal Load Deep	DL DP	Ground Gypsum	GRND GYP	Noise Reduction Coefficient Nominal	NRC NOM	Tongue and Groove Top of Beam	T & G TOB	20220202020202020200000000000000000000	/
alt natic	ASPH AUTO	Degree Demolish, Demolition	DEG DEMO	H Handrail	HNDRL	Normal North	NORM N	Top of Curb, Top of Concrete Top of Deck	TOC TOD	BUILDING WALL SYMBOLS	_
ue age	AVE AVG	Demountable Depth	DMT D	Hardboard Hardware	HDBD HDW	Northeast Northwest	NE NW	Top of Footing Top of Parapet	TOF TOPAR		- WOOD DOOR (081
of Curb	BC	Design Detail	DSGN DTL	Hardwood Head	HDWD HD	Not Applicable Not In contract	NA NIC	Top of Pier	TOP		EL. 1
nce d & Bagged	BAL B & B	Diagonal Diameter	DIAG DIA	Head Joint Header	HJT HDR	Not to Scale Number	NTS NO	Top of Steel Top of Wall	TOS TOW		20 R @ 7
ment	BSMT BM	Diffuser Dimension	DIFF DIM	Heating Heating, Ventilating, Air Conditioning	HTG HVAC	O Office	OFF	Transom Typical	TR TYP	EXISTING CONTOUR	
ng ng Plate	BRG BRG PL	Direct Current Direction, Director	DC DIR	Height Hertz	HT HZ	On Center Opening	OC OPNG	U Underwriters Laboratories	UL	GRADED REGION	CIP CONCRET
Joint pom	BJT BR	Dispenser Distribution	DISP DIST	Hig High Point	H H PT	Opposite Origin(al)	OPP ORIG	Unfinished United States Gage	UNFIN USG	FINISHED CONTOUR	EL. 1
w h Mark	BLW BM	Division	DIV DR	High-Density Polyethylene Plastic	HDPE	Ounce Out to Out	OZ	Utility V	UTIL	PROPERTY LINE	Name Nar
een	BTWN	Door Door Opening Double	DO	Highway Hollow Core Hallow Matal	HWY HC	Outside Diameter	OTO OD	Value Vapor Barrier	VAL VB	PKUPEKIY LINE	Name Nar 101 or 10 150
l(ed) ninous	BLV BITUM	Double Double Acting	DBL DBL ACT	Hollow Metal Horizontal	HM HORIZ	Overall Overflow Roof Drain	OA ORD	Varnish Veneer	VAR VEN	SETBACK LINE	
< king	BLK BLKG	Double Hung Dowel(s)	DH DWL(S)	Horsepower Hot Water	HP HW	Overhead P	ОН	Ventilating Vertical	VENT VERT	——————————————————————————————————————	
1 r	BD BLR	Down Downspout	DN DS	Hot Water Heater Hour	HWH HR	Painted Pair	PTD PR	Vestibule	VEST	• • GUARDRAIL	<u>(1/S2</u>
Sides Ways	BS BW	Drawer Drawing	DWR DWG	Hydrant Hydro-chlorofluorocarbon	HYD HCFC	Panel Partition	PNL PTN	Vinyl Wall Covering VinylComposition Tile	VWC VT	r ¹ ^{NNWW} ¹ ^N ^N	
m m Face	BOT BF	Drinking Fountain Duplicate	DF DUP	l Illumination	ILLUM	Pavement Perforated	PVMT PERF	Vitreous Volatile Organic Compound	VIT VOC	TREES & SHRUBS	
m Footing Elevation m of Curb	BFE BOC	E Each	EA	Inches Include(d)(ing)	IN	Photovoltaic Plaster	PV PLAS	Volt Volume	V VOL	PLAN SYMBOLS	
ket	BRKT BRK	Each End Each Face	EE	Indoor Air Quality Information	IAQ INFO	Plastic Laminate Plate	PLAM PL	W Wainscot	WNSCT		ABV. L
ing ze	BRIDG BRZ	Each Way	EF EW F	Inside Diamter	ID IC	Plate Plumbing	PL PLUMB or PLBG	Wall to Wall Water Closet	WTW WC		?
-up Roofing	BUR	East Elastomeric Elastic Water Cooler	E ELAS	Inside Face Insulated Panel	IF INSUL PNI	Plyvinyl Chloride	PVC	Water Heater Water-repellent Treated Wood	WH WRTW		ĘF
ing ing Line	BLDG BL	Electric Water Cooler Electrical	EWC ELEC	Insulation	PNL INSUL	Plywood Point of Curve	PLYWD PC	Weight Welded Wire Fabric	WT WWF		
ling-Integrated Photovoltaics tin Board	BIPV BBD	Elevation Elevator	EL or ELEV ELEV	Interior Invert	INT INVT or	Point of Intersection Point, Point of Tangent Potestic lass Tangehthelete Plantic	PI PT	West Wide Flange	W WF		1.A.
per Guard thers/Owner	BG BO	Emergency Encloure	EMER ENCL	Invert Elevation	INV INVT EL	Polyethylene Terephthalate Plastic Pounds per Cubic Foot	PET PCF	Wide, Width	W W WDW		7.N
net	CAB	Engineer Entrance	ENGR ENTR	J Janitor	JAN	Pounds per Square Foot Pounds per Square Inch	PSF PSI	Window Wired Glass With	WG		
net Unit Heater er	CUH CAL	Equal Equipment	EQ EQUIP or	Joint Joist	JT JST	Preliminary Project(ion)	PRELIM PROJ	With Without	W/ W/O		Type Name _{OR} <u>Room N</u> Gross Floor Area 150 S
lever et Roll Good	CANTL CR	Escalator	EQPM ESC	Joist Bearing Junction Box	JST BR JB	Property Line Proposal Request	PL PR	Wood Wood Preservative Treated Wood	WD WPTW		
et Tile et(ed)	CT CPT	Establish Estimate	ESTB EST	K Kick Plate	KPL	Q Quality	QUAL	Working Point Wrought Iron	WPT WI		
ment work	CSMT CSWK	Ethylene Propylene Diene Monomer Exhaust	EPDM EXH	Kilovolt Amps Kilowatts	KW KVA	Quarry Tile Quart	TQ QT	Y Yard	YD		ANNOTATION SYMBOLS
Iron Iron Pipe	CI CIP	Exhaust Fan Exhaust Grille	EF EG	Kips Kitchen	K	Quarter B	QTR				
Stone	CST	Existing	EXIST'G	Knocked Down Knockout	KD KO	R Radius Bailroad	R or RAD				EARTH EXISTING
In-Place Concrete Basin	CIP CONC CB	Expansion expansion Joint Exterior	EXP EJT	L		Railroad Receptacle	RR RECP				
ng Height	CLG CLG HT	Exterior Exterior Insulation & Finish System	EXT EIFS	Laboratory Laminated	LAB LAM	Recessed Rectangular	REC RECT				BACKFILL
us, Degree ent(itious)	C CEM	Extrusion F	EXTRU	Large Lavatory	LG LAV	Reference Refrigerator	RE or REF REFR				
er Er Line	CTR CL	Face Brick Face of Concrete	FB FOC	Leadership in Energy & Environmental Design Left Hand	LEED LH	Regular Reinforc(ing)(ed)	REG REINF				
r to Center neter(s)	C to C CM	Face of Masonry Face of Stud	FOM FOS	Length Light	L LT	Reinforced Concrete Pipe Reinforcing Bar	RCP REBAR				BASE COURSE
nic Tile board	TC CHKBD	Face of Wall Fahrenheit	FOW F	Lighting Lightweight	TG LWT	Relief Required	RLF REQD				02 SITE CONSTRUCTION
fer je Order	CHAM CO	Fasten, Fastener Feet	FAS FT	Lightweight Concrete	LWT CONC	Return Return Air	RET				
iel iel ical, Chemistry	C CHEM	Fiber-reinforced Plastic Finish	FRP FIN	Linear Linear, Low-density Polyethylene Plastic	LIN LLDPE	Revision Right Hand	REV RH				CAST-IN-PLACE CON
ofluorocarbon osulfonated Polyethylene	CFC CSPE	Finished Floor Finished Floor Elevation	FF	Lintel Live Load	LTL LL	Right of Way Roof Drain	ROW RD				
}	CIR	Finished Floor Line	FFL	Locate, Location Long Leg Horizontal	LOC LLH	Roofing	RFG				PRECAST CONCRETE
it room	CKT CLRM	Fire Extinguisher Fire Extinguisher Cabinet	FE FEC	Long Leg Vertical Longitudinal	LLV LONG	Room Rough Opening Rougd	RM RO				CEMENTITIOUS TOPP
out or Clearance	CO CLR	Fire Hose Cabinet Fire Hydrant/Hose	FH FHC	Longradman Louver Low Point	LVR LP	Round S	RND				
ed Circuit Television et	CCTV CLO	Fire-retardant Treated Wood Fireproof	FRTW FP	Μ		Sanitary Schedule	SAN SCHED				GROUT
Hook Modification Request	CH CMR	Fixture Flashing	FIXT FLASH'G	Machine Machine Screw	MACH MS	Scored Joint Section	SCD JT SECT				03 CONCRETE
	IS									A21 Architectural Materials	

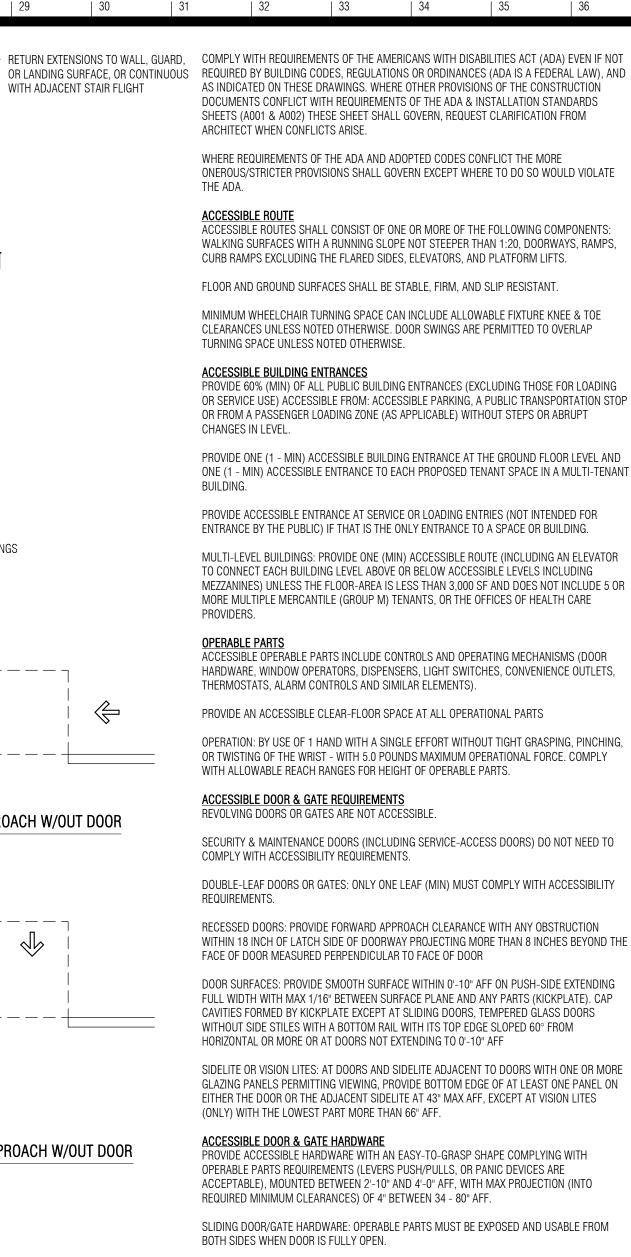
29 30 31	32	33	34	35	36
COLUMN LINE /GRID INDICATOR			BRICK		
BENCHMARK/FLOOR ELEVATION SYMBO	L		CONCRETE MASO	NRY UNITS	
NORTH ARROW			GLASS BLOCK		
			CUT STONE		
WALL/BUILDING ELEVATION SYMBOL			CAST STONE		
BUILDING SECTION SYMBOL			SLATE		
			SAND		
WALL SECTION/DETAIL SECTION SYMBO	L	04 MASONRY			
DETAIL REFERENCE SYMBOL			STEEL		
			ALUMINUM		
REVISION INDICATOR			OTHER METALS		
TEXTNOTE SYMBOL		05 METALS			
FLOOR SLAB ELEVATION		<u></u>			
STAIR TAG			CONTINUOUS WOO	OD	
FLOOR TAG			INTERMITTENT WO	00D	
SPOT ELEVATION SYMBOL			PLYWOOD		
ROOM TAG SYMBOLS			FINISH WOOD		
PARTITION TYPE SYMBOL			GLUED-LAMINATE	D CONSTRUCTION	
DOOR SYMBOL		<i># # #</i>			
WINDOW SYMBOL			CORK		
CURTAIN/SYSTEM PANEL SYMBOL			HARD BOARD		
CEILING HEIGHT SYMBOL			PARTICLEBOARD		
FINISH TAG SYMBOL			SOLID SURFACE N	ΛΛΤΕΡΙΛΙ	
LANDSCAPE TAG SYMBOL		06 WOOD & P			
FURNITURE TAG					
FURNITURE SYSTEMS TAG			BATT INSULATION		
AREA TAG SYMBOLS			LOOSE FILL INSUL	ATION	
		07 THERMAI	RIGID INSULATION		
			GLASS		
		08 DOORS & 1	WINDOWS		
		<u> (()))))))</u>	LATH & PLASTER		
			GYPSUM BOARD		
			CERAMIC TILE		
			CEILING PANEL		
			CARPET		
-		09 FINISHES			
29 30 31	32	33	34	35	36

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bn	
BNIM Architects 2460 East Pershing Road, Suite 100 p.816.783.1500 f.816.783.1501 MO State Certificate of Authority #0	Architect), Jackson County, Kansas City MO 64108)0235006
KH Engineering Group 13426 West 99th Street, Johnson Co 913-825-9381 Certificate of Authority	Structural Engineer
Taliaferro & Browne 1020 East 8th Street, Jackson Count 816-283-2456 Lankford Fendler +	Civil Engineer y, Kansas City, MO 64106
Associates 1730 Walnut Street, Jackson County 816-221-1411	MEPF Engineer 7, Kansas City, MO 64108
MCC Longvie	w HT
Addition/Ren	
500 SW Longview Road	
Lee's Summit, MO 64081 PERMIT/BID DOCUMENT	
Issued: September 23, 20	
Rev. # Descriptio	on Date Issued
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STATE OF JERI	
NUM	KAHM 9 - 23 - 21 BER 03 5449
ALSON ATT CH	ITECT
M0# A-20	nm - Architect 010035449
License Name: Berkebile Nelson Im Profession Name: Architectural Corp Licensee Number: 000377).
ARCHITECTURAL MATER Symbols, & Abbrevia	
A000	





Architec



DOOR/GATE CLOSERS: ADJUST UNITS TO PROVIDE 5 SECOND (MIN) TIME TO MOVE DOOR/GATE FROM 90° OPEN-POSITION TO 12° OPEN-POSITION. DOOR/GATE SPRING-HINGES: ADJUST TO PROVIDE 1-1/2 SECOND MIN TIME TO MOVE

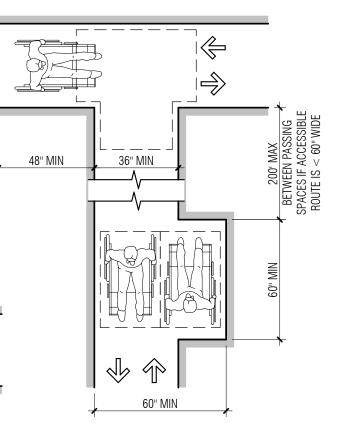
OPENING-FORCE OF CLOSERS OR SPRING-HINGES: 5.0 LBS MAX @ INTERIOR HINGED, SLIDING OR FOLDING DOORS OR GATES (NOT APPLICABLE TO LATCH-BOLT RETRACTION FORCE AND NOT APPLICABLE TO OPENING FORCE AT FIRE-DOORS - TO BE AS REQUIRED BY AHJ).

AUTOMATIC DOORS OR GATES REFERENCED STANDARDS: COMPLY WITH ANSI/BHMA A156.10. AND FOR POWER-ASSIST AND LOW-ENERGY DOORS, COMPLY WITH ANSI/BHMA A156.19 (UNLESS DOORS OR GATES ARE DESIGNED TO BE OPERATED ONLY BY SECURITY PERSONNEL).

COMPLY WITH ACCESSIBLE CLEAR-FLOOR SPACE, THRESHOLD / FLOOR-SURFACE, AND DOORS-IN- SERIES REQUIREMENTS.

MANUAL CONTROLS: COMPLY WITH "OPERABLE PARTS" REMITS WITH THE CLEAR FLOOR SPACE ADJACENT TO THE CONTROL SWITCH LOCATED BEYOND THE DOOR/GATE SWING.

PROVIDE OPERATIONAL PARTS LOCATED PER "OPERABLE PARTS" REQUIREMENTS WITH MINIMUM ACCESSIBLE CLEAR-FLOOR SPACE ADJACENT TO THE WINDOW.



ACCESSIBLE ROUTE PASSING SPACES

30	31	32	33	34	35

Lee's Summit, Missouri 12/30/2021

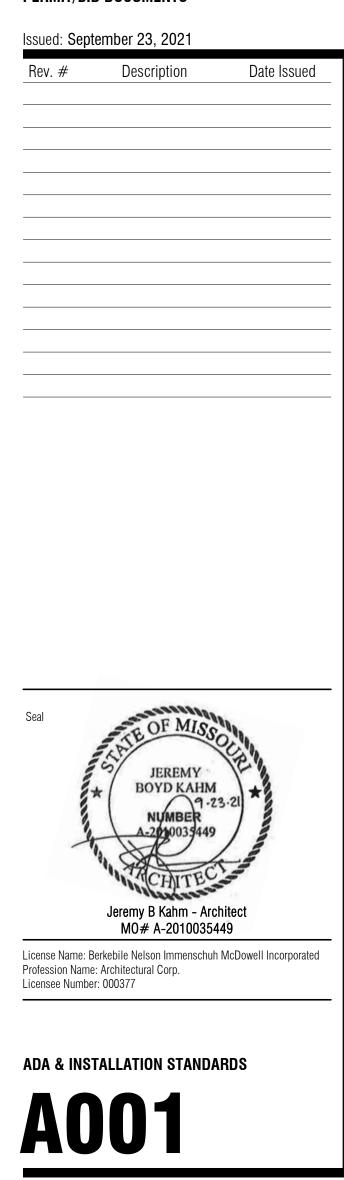
BNIM Architects

- 2460 East Pershing Road, Suite 100, Jackson County, Kansas City MO 64108 p.816.783.1500 f.816.783.1501 MO State Certificate of Authority #00235006
- Structural Engineer KH Engineering Group 13426 West 99th Street, Johnson County, Lenexa, KS 66215 913-825-9381
- Certificate of Authority
- Taliaferro & Browne Civil Engineer 1020 East 8th Street, Jackson County, Kansas City, MO 64106 816-283-2456
- Lankford Fendler + MEPF Engineer Associates
- 1730 Walnut Street, Jackson County, Kansas City, MO 64108 816-221-1411

MCC Longview HT Addition/Renovation

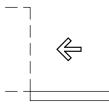
500 SW Longview Road Lee's Summit, MO 64081 Project No: 20008.00

PERMIT/BID DOCUMENTS

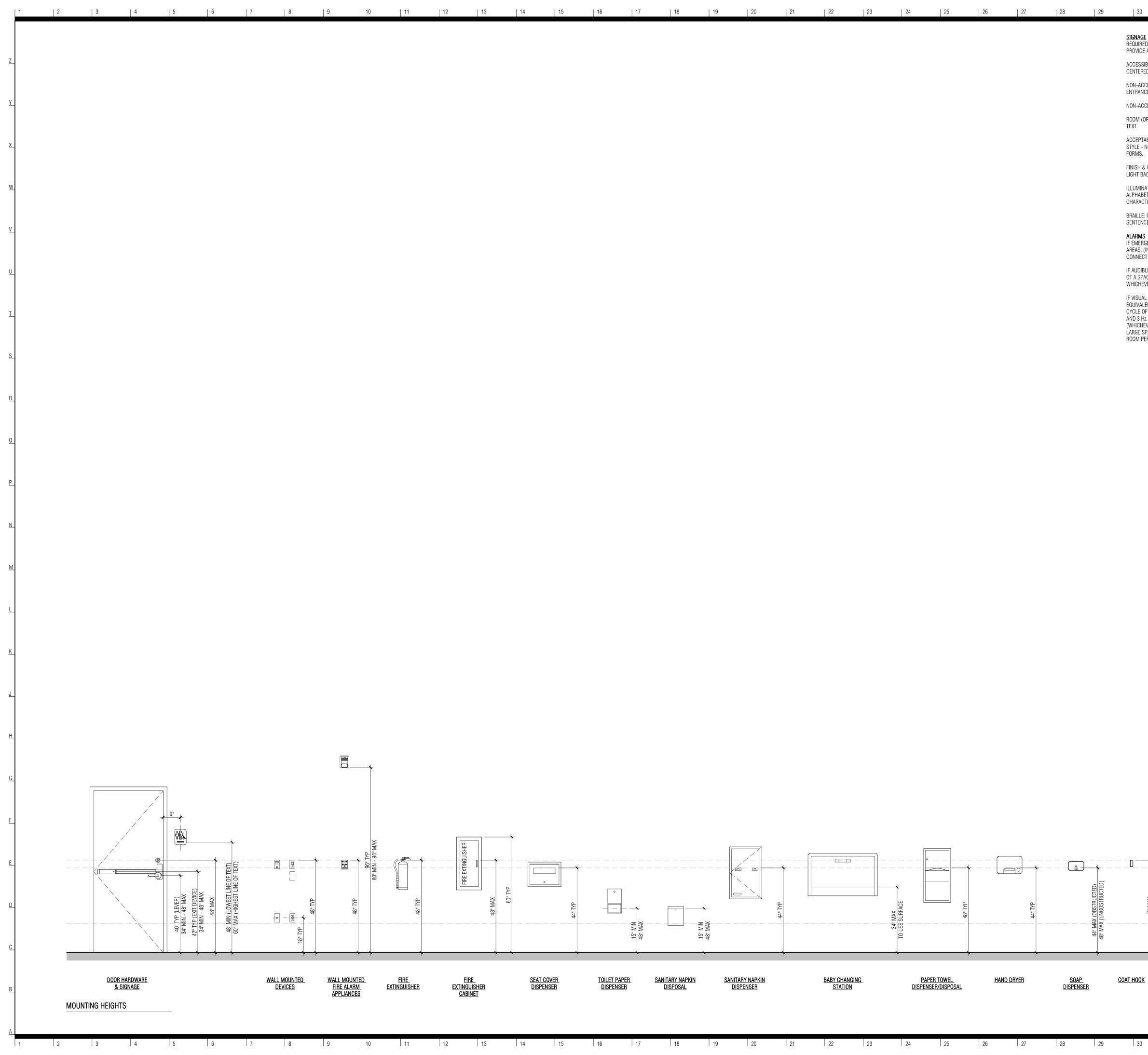


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	44" TYP		48' MAX 		TO USE SURFAC		44" MAX (OBSTI 48" MAX (UNOBS
<u>SEAT COVER</u> <u>DISPENSER</u>	<u>TOILET PAPER</u> <u>DISPENSER</u>	<u>Sanitary Napkin</u> <u>Disposal</u>	<u>Sanitary Napkin</u> <u>Dispenser</u>	<u>BABY CHANGING</u> <u>Station</u>	<u>PAPER TOWEL</u> <u>DISPENSER/DISPOSAL</u>	<u>Hand Dryer</u>	<u>SOAP</u> <u>DISPENSER</u>
14 15	16 17	18	19 20	21 22 23	24 25	26 27	28 29

31	32	33	34	35	36

SIGNAGE REQUIRED ACCESSIBLE SIGNS (MINIMUM) EXCEPT AT BUILDING DIRECTORIES, MENU BOARDS OR TEMPORARY SIGNS PROVIDE ACCESSIBLE SIGNS AS FOLLOWS:

ACCESSIBLE ENTRANCES: PROVIDE A 4 X 4" ACCESSIBILITY DECAL AT ALL ACCESSIBLE PUBLIC ENTRANCE DOORS CENTERED AT 60" AFF.

NON-ACCESSIBLE PUBLIC ENTRANCES: PROVIDE DIRECTIONAL SIGNS INDICATING LOCATION OF NEAREST ACCESSIBLE ENTRANCE.

NON-ACCESSIBLE TOILET ROOMS: PROVIDE DIRECTIONAL SIGNS INDICATING LOCATION OF NEAREST ACCESSIBLE UNITS. ROOM (OR SPACE) SIGNS (INCLUDING TOILET ROOMS): PROVIDE RAISED PICTOGRAMS, TACTILE CHARACTERS AND BRAILLE TEXT.

ACCEPTABLE CHARACTERS: UPPER-CASE, LOWER-CASE OR A COMBINATION OF BOTH IN A SANS-SERIF CONVENTIONAL STYLE - NO ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE OR OTHER UNUSUAL FORMS.

FINISH & CONTRAST: NON-GLARE WITH EITHER LIGHT CHARACTERS ON DARK BACKGROUND OR DARK CHARACTERS ON LIGHT BACKGROUND.

ILLUMINATION LEVEL AT ACCESSIBLE SIGNS: MINIMUM 10 FOOTCANDLES AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS OR PROVIDE CLEAR FLOOR AREA OF 18 X 18 INCHES CENTERED ON TACTILE CHARACTER SIGNS BEYOND ARC OF DOOR SWING FROM CLOSED TO 45 DEGREE OPEN POSITION.

BRAILLE: CONTRACTED (GRADE 2) WITH INDICATION OF AN UPPERCASE LETTER ONLY BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS OR ACRONYM.

ALARMS IF EMERGENCY WARNING SYSTEMS ARE PROVIDED. PROVIDE BOTH AUDIBLE AND VISUAL ALARMS IN ANY COMMON-USE AREAS, (INCLUDING BUT NOT LIMITED TO RESTROOMS, MEETING ROOMS, HALLWAYS AND LOBBIES). PERMANENTLY CONNECT ALARM SYSTEMS TO THE BUILDING ELECTRICAL POWER AND LIGHTING SYSTEM AS APPROPRIATE.

IF AUDIBLE ALARMS ARE PROVIDED, THEY MUST PRODUCE SOUND EXCEEDING THE PREVAILING EQUIVALENT SOUND LEVEL OF A SPACE BY AT LEAST 15 dbA OR EXCEED ANY MAXIMUM SOUND LEVEL WITH A DURATION OF 60 SECONDS BY 5 dbA. WHICHEVER IS LOUDER (NOT EXCEEDING 120dbA).

IF VISUAL ALARMS ARE PROVIDED, PROVIDE UNFILTERED OR CLEAR-FILTERED WHITE XENON-STROBE TYPE LAMPS OR EQUIVALENT, WITH 0.2 SECOND MAXIMUM PULSE DURATION AND MAXIMUM DUTY CYCLE OF 40 PERCENT, PROVIDING A MINIMUM BRIGHTNESS INTENSITY OF 75 CANDELA WITH A FLASH RATE BETWEEN 1 AND 3 Hz. LOCATE UNITS NO MORE THAN 6'-10" (80") AFF OR 6" BELOW CEILING (WHICHEVER IS LOWER). LOCATE 50 FEET MAXIMUM FROM ANY POINT WITHIN A SPACE OR COMMON CORRIDOR, OR IN LARGE SPACES OVER 100 FEET ACROSS (SUCH AS AUDITORIUMS) WITHOUT OBSTRUCTIONS 6 FEET AFF, LOCATE AROUND ROOM PERIMETER AT MAXIMUM 100 FEET CENTERS.

bnim

BNIM Architects

2460 East Pershing Road, Suite 100, Jackson County, Kansas City MO 64108 p.816.783.1500 f.816.783.1501 MO State Certificate of Authority #00235006

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Development Services Department

Lee's Summit, Missouri 12/30/2021

Architect

KH Engineering Group Structural Engineer 13426 West 99th Street, Johnson County, Lenexa, KS 66215 913-825-9381

Certificate of Authority

Taliaferro & Browne Civil Engineer 1020 East 8th Street, Jackson County, Kansas City, MO 64106 816-283-2456

Lankford Fendler + MEPF Engineer Associates

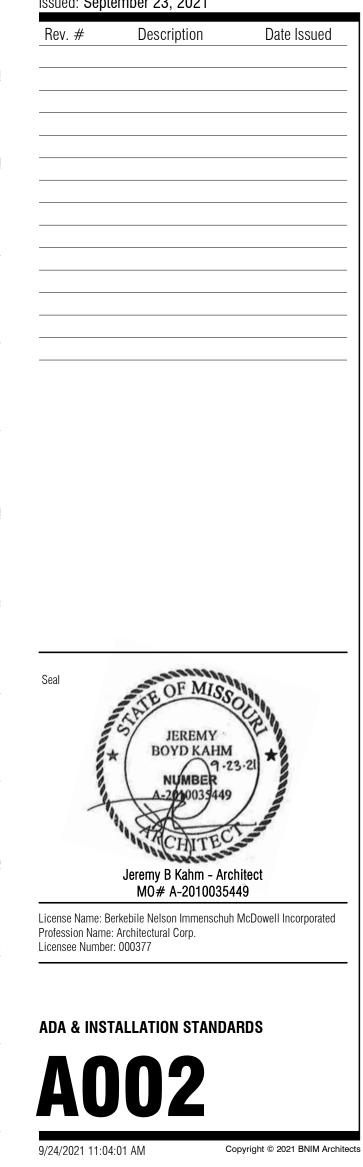
1730 Walnut Street, Jackson County, Kansas City, MO 64108 816-221-1411

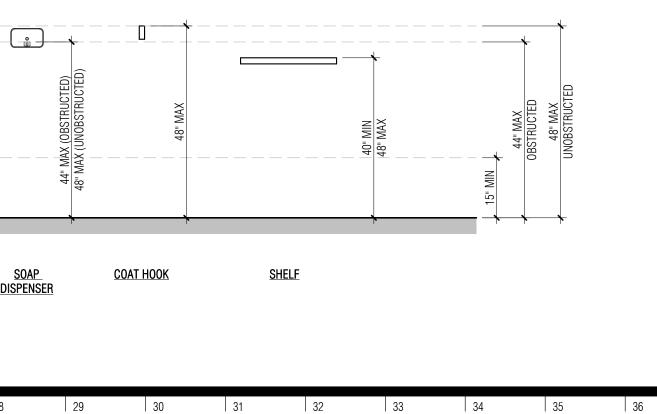
MCC Longview HT **Addition/Renovation**

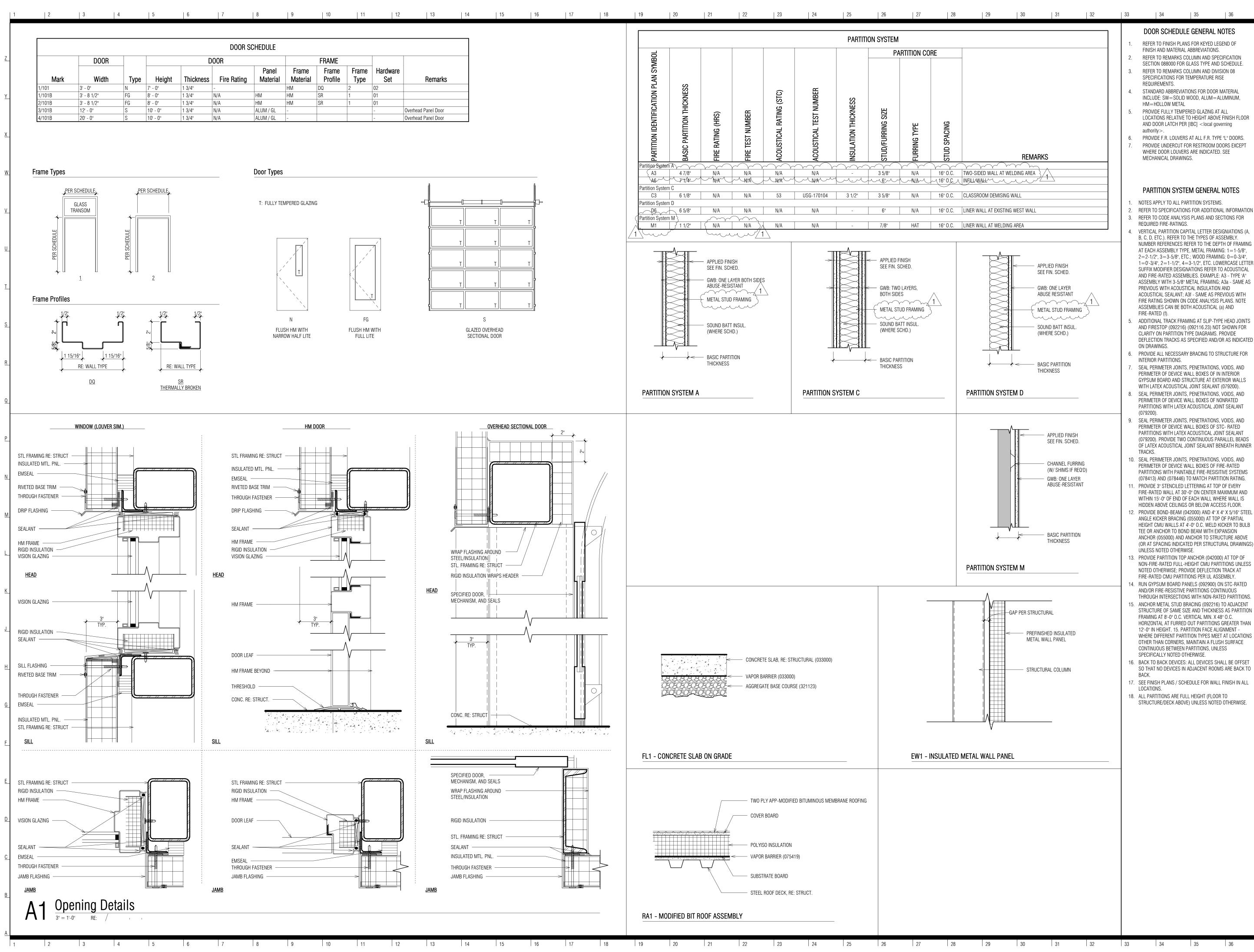
500 SW Longview Road Lee's Summit, MO 64081 Project No: 20008.00

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Issued: September 23, 2021

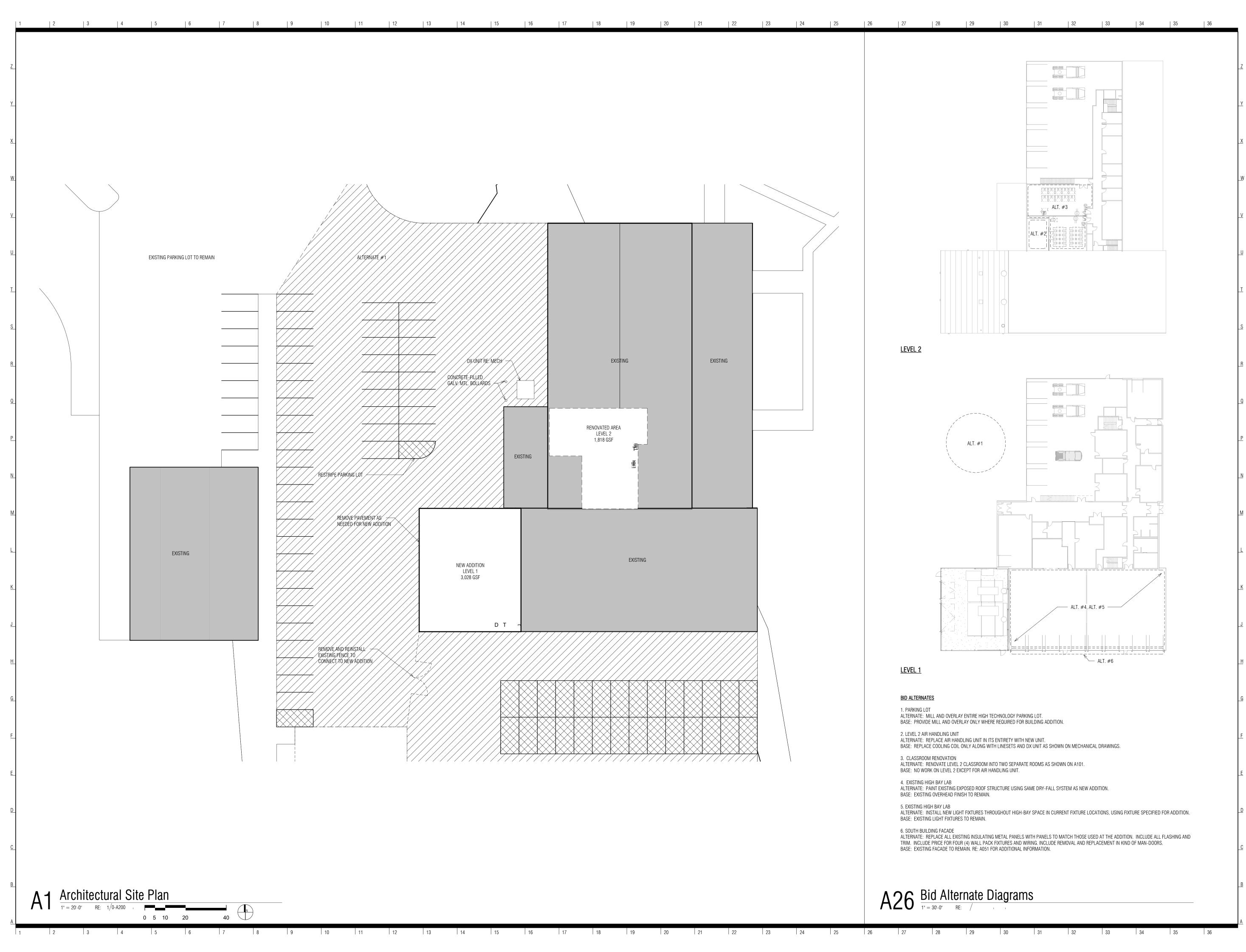






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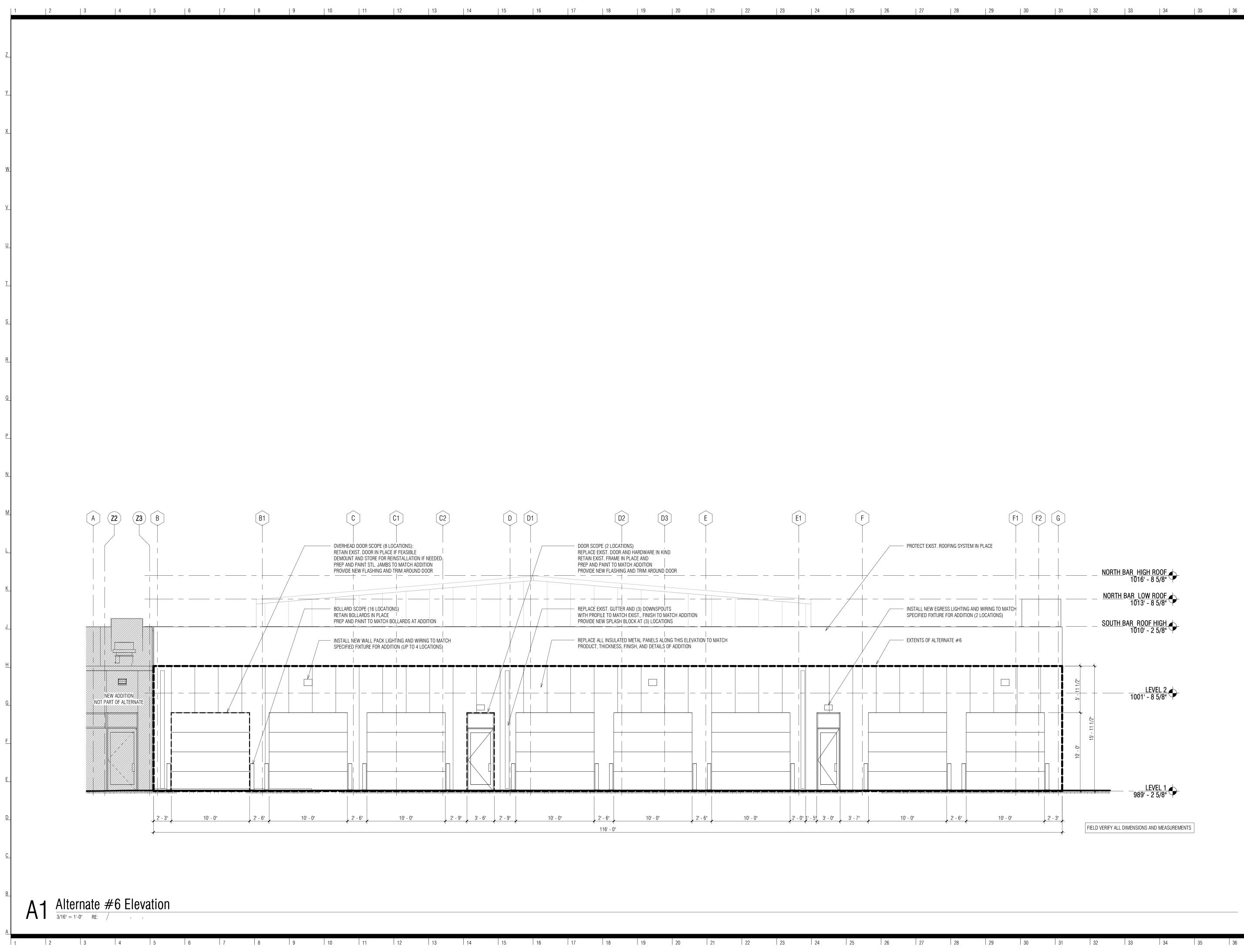
	As Noted on Plans Review Development Services Departm Lee's Summit, Missouri 12/30/2021
	bnim
	BNIM ArchitectsArchitect2460 East Pershing Road, Suite 100, Jackson County, Kansas City M0 64108p.816.783.1500f.816.783.1501MO State Certificate of Authority #00235006KH Engineering Group12406 West 20th Street Jahasen County Japaner12406 West 20th Street Jahasen County Japaner
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I	Lankford Fendler + Associates MEPF Engineer 1730 Walnut Street, Jackson County, Kansas City, MO 64108 816-221-1411
	MCC Longview HT Addition/Renovation
	500 SW Longview Road Lee's Summit, MO 64081 Project No: 20008.00
	PERMIT/BID DOCUMENTS
	Issued: September 23, 2021
	Rev. #DescriptionDate Issued1Addendum #310/27/21
	Seal
	* BOYD KAHM 9-23-21 NUMBER A-2010035449
	Jeremy B Kahm – Architect MO# A-2010035449 License Name: Berkebile Nelson Immenschuh McDowell Incorporated
	Profession Name: Architectural Corp. Licensee Number: 000377
	DOORS, HORIZONTAL AND VERTICAL ASSEMBLIES
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CONSTRUCTION As Noted on Plans Review **Development Services Departmen** Lee's Summit, Missouri 12/30/2021 bnim BNIM ArchitectsArchitect2460 East Pershing Road, Suite 100, Jackson County, Kansas City MO 64108p.816.783.1500f.816.783.1501MO State Certificate of Authority #00235006 KH Engineering Group Structural Engineer 13426 West 99th Street, Johnson County, Lenexa, KS 66215 913-825-9381 Certificate of Authority Taliaferro & Browne Civil Engineer 1020 East 8th Street, Jackson County, Kansas City, MO 64106 816-283-2456 Lankford Fendler + MEPF Engineer Associates 1730 Walnut Street, Jackson County, Kansas City, MO 64108 816-221-1411 MCC Longview HT **Addition/Renovation** 500 SW Longview Road Lee's Summit, MO 64081 Project No: 20008.00 **PERMIT/BID DOCUMENTS** Issued: September 23, 2021 Rev. # Description Date Issued Seal JEREMY **BOYD KAHM** 19.23. IMBER Jeremy B Kahm - Architect MO# A-2010035449 License Name: Berkebile Nelson Immenschuh McDowell Incorporated Profession Name: Architectural Corp. Licensee Number: 000377 ARCHITECTURAL SITE PLAN & BID ALTERNATES

RELEASED FOR

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		REPLACE EXIST. DOOR AND H/ RETAIN EXIST. FRAME IN PLAC PREP AND PAINT TO MATCH A PROVIDE NEW FLASHING AND	E AND DDITION			
		REPLACE EXIST. GUTTER AND WITH PROFILE TO MATCH EXIS PROVIDE NEW SPLASH BLOCK	ST., FINISH TO MATCH ADDITION			INSTALL NEW EGRESS LIGHTING AND WIRING SPECIFIED FIXTURE FOR ADDITION (2 LOCAT
		REPLACE ALL INSULATED MET PRODUCT, THICKNESS, FINISH	AL PANELS ALONG THIS ELEVATION TO MATCH I, AND DETAILS OF ADDITION	+ 		EXTENTS OF ALTERNATE #6
3' - 6"	2' - 9" 10' - 0"	<u>2' - 6"</u> <u>116' - 0"</u>	10' - 0" 2' - 6"	10' - 0" 2' - 0" 1'	- 5", 3' - 0" 3' - 7"	10' - 0" , 2' - 6"

E

E1

F

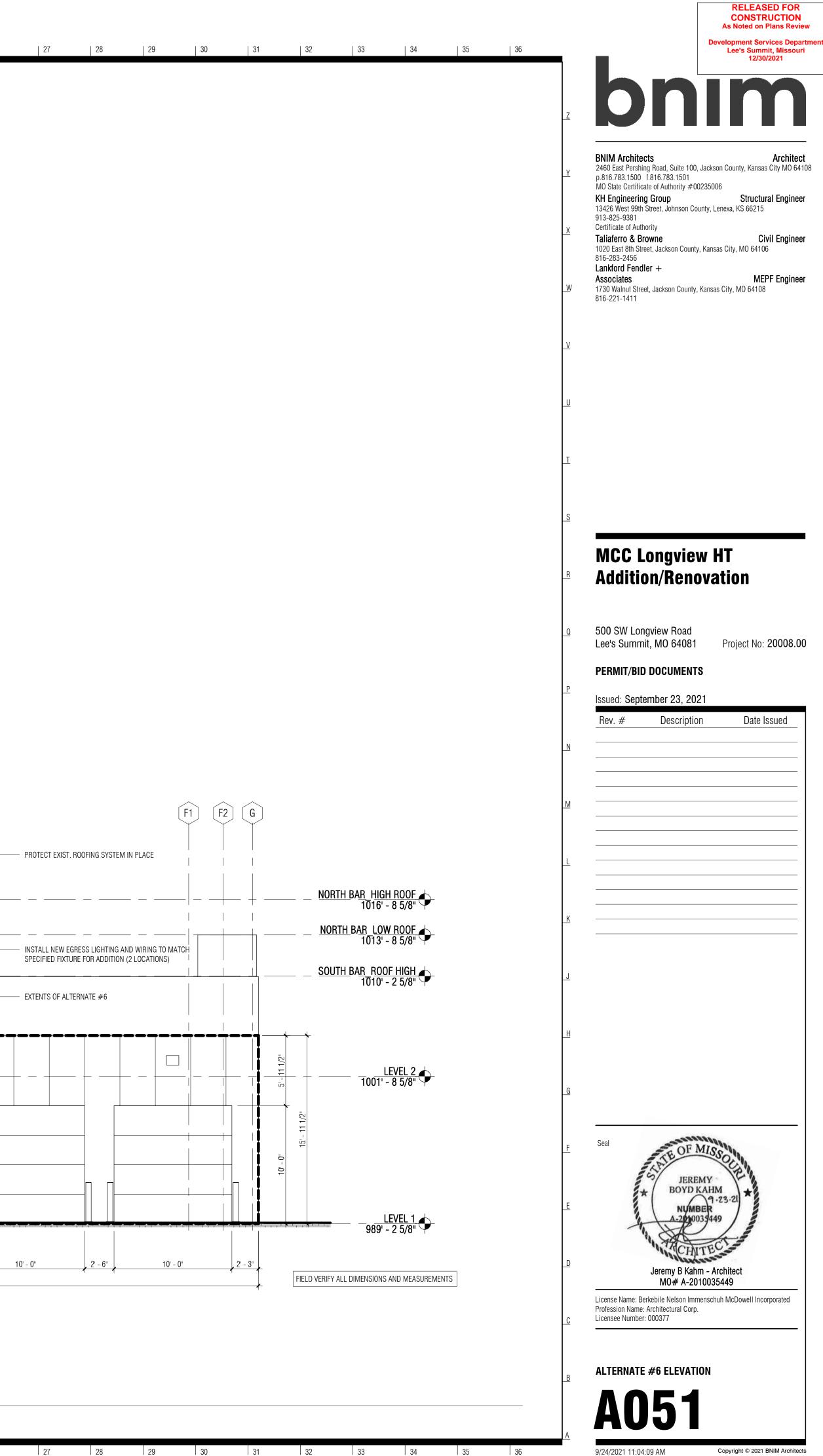
D3

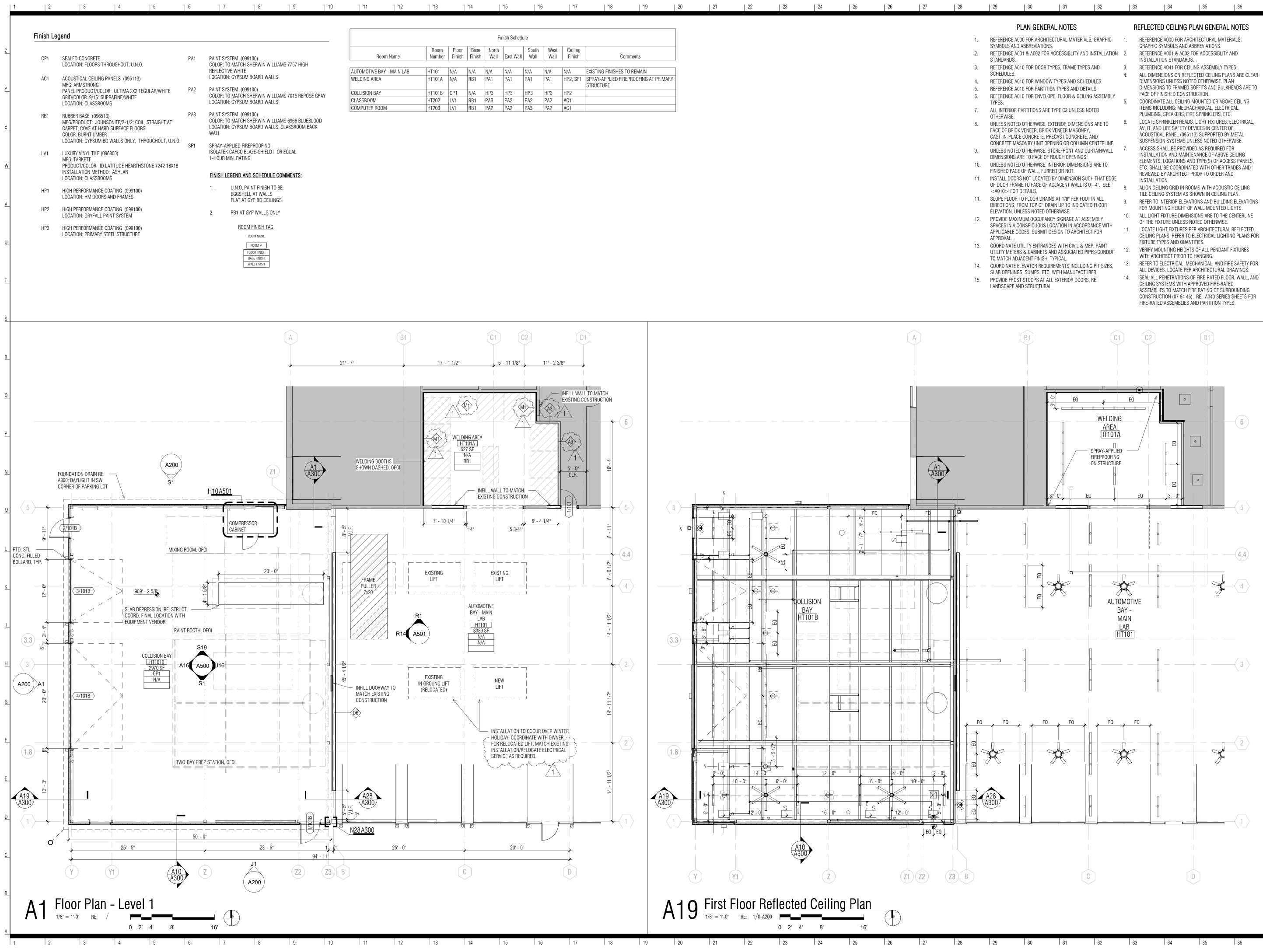
D2

REPLACE EXIST. DOOR AND HARDWARE IN KIND

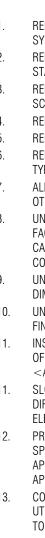
DOOR SCOPE (2 LOCATIONS)

 $\left(\begin{array}{c} D \end{array} \right) \left(\begin{array}{c} D1 \end{array} \right)$





	Fin	iish Schedu	ıle			
Base	North		South	West	Ceiling	
Finish	Wall	East Wall	Wall	Wall	Finish	Comments
						·
N/A	N/A	N/A	N/A	N/A	N/A	EXISTING FINISHES TO REMAIN
RB1	PA1	PA1	PA1	PA1	HP2, SF1	SPRAY-APPLIED FIREPROOFING AT PRIMARY STRUCTURE
N/A	HP3	HP3	HP3	HP3	HP2	
RB1	PA3	PA2	PA2	PA2	AC1	
RB1	PA2	PA2	PA3	PA2	AC1	



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PL	AN GENERAL	NOTES			REFLECTED	CEILING PLA	n gei
) FOR ARCHITECTU BBREVIATIONS.	IRAL MATERIALS,	GRAPHIC	1.		A000 FOR ARCHIT VBOLS AND ABBR	
ENCE A001	& A002 FOR ACC	ESSIBLITY AND IN	STALLATION	2	REFERENCE	4001 & 4002 FOR	ACCES

Development Services Departmen Lee's Summit, Missouri 12/30/2021

BNIM Architects

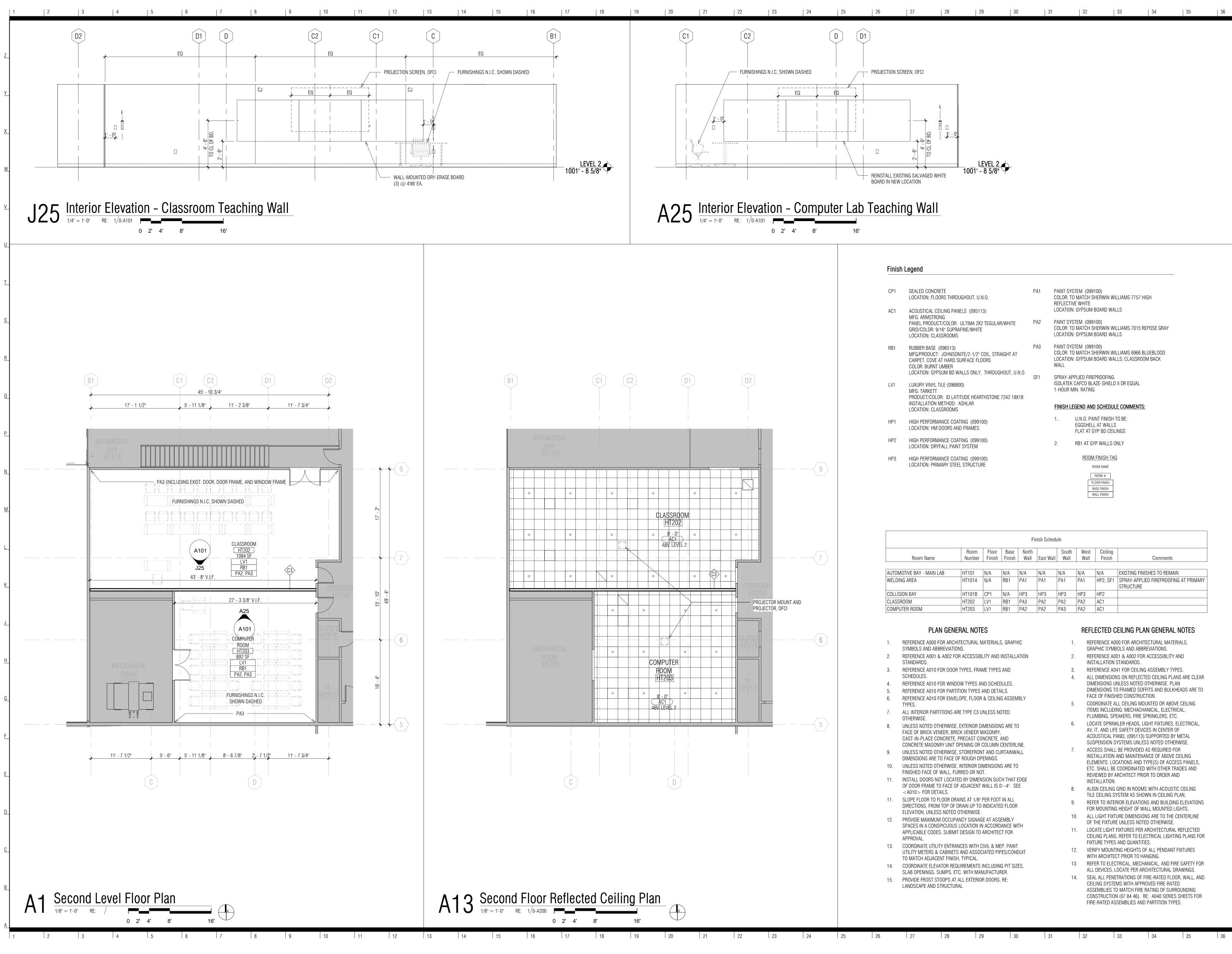
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MCC Longview HT **Addition/Renovation**

500 SW Longview Road Lee's Summit, MO 64081 Project No: 20008.00

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	Description	Date Issued
Rev. #	Addendum #3	10/27/21
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Seal	JEREMY BOYD KAHI NUMBER A-201003944	M 23.21 19
Seal	JEREMY	rchitect
icense Name: F	JEREMY BOYD KAH NUMBER -2000344 CHITE Jeremy B Kahm - A MO# A-201003	rchitect 5449
icense Name: F	JEREMY BOYD KAHI NUMBER -20003544 CHITE Jeremy B Kahm - A MO# A-201003 Berkebile Nelson Immensch e: Architectural Corp.	rchitect 5449
icense Name: F	JEREMY BOYD KAHI NUMBER -20003544 CHITE Jeremy B Kahm - A MO# A-201003 Berkebile Nelson Immensch e: Architectural Corp.	rchitect 5449
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icense Name: F Profession Nam icensee Numbe	JEREMY BOYD KAH NUMBER 2000344 Jeremy B Kahm - A MO# A-201003 Berkebile Nelson Immensch e: Architectural Corp. er: 000377	rchitect 5449
icense Name: H Profession Nam icensee Numbe	JEREMY BOYD KAH NUMBER -2000344 Jeremy B Kahm - A MO# A-201003 Berkebile Nelson Immensch e: Architectural Corp. er: 000377	rchitect 5449
icense Name: H Profession Nam icensee Numbe	JEREMY BOYD KAH NUMBER 2000344 Jeremy B Kahm - A MO# A-201003 Berkebile Nelson Immensch e: Architectural Corp. er: 000377	rchitect 5449



<u>EVEL 2</u> - 8 5/8"					
	PA1		EM (099100)		
N.O.		REFLECTIVE			ligh
13) io teolul ad anulite	PA2		GYPSUM BOARD W EM (099100)	ALLS	
2 TEGULAR/WHITE E	T AZ	COLOR: TO	MATCH SHERWIN V GYPSUM BOARD W		REPOSE GRAY
	PA3	PAINT SYST COLOR: TO	EM (099100) MATCH SHERWIN V	VILLIAMS 6966 F	BLUEBLOOD
COIL, STRAIGHT AT OORS			GYPSUM BOARD W		
, Throughout, U.N.O.	SF1	SPRAY-APP	LIED FIREPROOFING		
		ISOLATEK C 1-HOUR MII	AFCO BLAZE-SHIEL N. RATING	.D II OR EQUAL	
RTHSTONE 7242 18X18		FINISH I FO	END AND SCHEDL		
100)			J.N.O, PAINT FINISH		<u>.</u>
100)		E	EGGSHELL AT WALI FLAT AT GYP BD CE	S	
100)			RB1 AT GYP WALLS		
100)			ROOM FINISH TA	AG	
IRE			ROOM NAME		
			ROOM # FLOOR FINISH]	
			BASE FINISH WALL FINISH]	

			Fin	iish Schedu	ıle			
Room	Floor	Base	North		South	West	Ceiling	
Number	Finish	Finish	Wall	East Wall	Wall	Wall	Finish	Comments
HT101	N/A	N/A	N/A	N/A	N/A	N/A	N/A	EXISTING FINISHES TO REMAIN
HT101A	N/A	RB1	PA1	PA1	PA1	PA1	HP2, SF1	SPRAY-APPLIED FIREPROOFING AT PRIMARY STRUCTURE
HT101B	CP1	N/A	HP3	HP3	HP3	HP3	HP2	
HT202	LV1	RB1	PA3	PA2	PA2	PA2	AC1	
HT203	LV1	RB1	PA2	PA2	PA3	PA2	AC1	

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REFLECTED CEILING PLAN GENERAL NOTES

- 1. REFERENCE A000 FOR ARCHITECTURAL MATERIALS, GRAPHIC SYMBOLS AND ABBREVIATIONS. 2. REFERENCE A001 & A002 FOR ACCESSIBLITY AND
- INSTALLATION STANDARDS.
- 3. REFERENCE A041 FOR CEILING ASSEMBLY TYPES. 4. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE CLEAR DIMENSIONS UNLESS NOTED OTHERWISE. PLAN DIMENSIONS TO FRAMED SOFFITS AND BULKHEADS ARE TO
- FACE OF FINISHED CONSTRUCTION. 5. COORDINATE ALL CEILING MOUNTED OR ABOVE CEILING ITEMS INCLUDING: MECHACHANICAL, ELECTRICAL,
- PLUMBING, SPEAKERS, FIRE SPRINKLERS, ETC. 6. LOCATE SPRINKLER HEADS, LIGHT FIXTURES, ELECTRICAL, AV, IT, AND LIFE SAFETY DEVICES IN CENTER OF ACOUSTICAL PANEL (095113) SUPPORTED BY METAL SUSPENSION SYSTEMS UNLESS NOTED OTHERWISE.
- 7. ACCESS SHALL BE PROVIDED AS REQUIRED FOR INSTALLATION AND MAINTENANCE OF ABOVE CEILING ELEMENTS. LOCATIONS AND TYPE(S) OF ACCESS PANELS, ETC. SHALL BE COORDINATED WITH OTHER TRADES AND REVIEWED BY ARCHITECT PRIOR TO ORDER AND
- INSTALLATION. 8. ALIGN CEILING GRID IN ROOMS WITH ACOUSTIC CEILING TILE CEILING SYSTEM AS SHOWN IN CEILING PLAN. 9. REFER TO INTERIOR ELEVATIONS AND BUILDING ELEVATIONS
- FOR MOUNTING HEIGHT OF WALL MOUNTED LIGHTS. 10. ALL LIGHT FIXTURE DIMENSIONS ARE TO THE CENTERLINE
- OF THE FIXTURE UNLESS NOTED OTHERWISE. 11. LOCATE LIGHT FIXTURES PER ARCHITECTURAL REFLECTED CEILING PLANS, REFER TO ELECTRICAL LIGHTING PLANS FOR FIXTURE TYPES AND QUANTITIES.
- 12. VERIFY MOUNTING HEIGHTS OF ALL PENDANT FIXTURES
- WITH ARCHITECT PRIOR TO HANGING.
- 13. REFER TO ELECTRICAL, MECHANICAL, AND FIRE SAFETY FOR ALL DEVICES, LOCATE PER ARCHITECTURAL DRAWINGS. 14. SEAL ALL PENETRATIONS OF FIRE-RATED FLOOR, WALL, AND CEILING SYSTEMS WITH APPROVED FIRE-RATED ASSEMBLIES TO MATCH FIRE RATING OF SURROUNDING CONSTRUCTION (07 84 46). RE: A040 SERIES SHEETS FOR

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FIRE-RATED ASSEMBLIES AND PARTITION TYPES.

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BNIM Architects Architect 2460 East Pershing Road, Suite 100, Jackson County, Kansas City MO 64108 p.816.783.1500 f.816.783.1501 MO State Certificate of Authority #00235006 KH Engineering Group Structural Engineer 13426 West 99th Street, Johnson County, Lenexa, KS 66215 913-825-9381 Certificate of Authority Taliaferro & Browne Civil Engineer 1020 East 8th Street, Jackson County, Kansas City, MO 64106 816-283-2456 Lankford Fendler + **MEPF Engineer** Associates 1730 Walnut Street, Jackson County, Kansas City, MO 64108 816-221-1411 **MCC Longview HT Addition/Renovation** 500 SW Longview Road Lee's Summit, MO 64081 Project No: 20008.00 **PERMIT/BID DOCUMENTS** Issued: September 23, 2021 Description Date Issued Rev. # Seal JEREMY **BOYD KAHM** 19.23. IMBER Jeremy B Kahm - Architect MO# A-2010035449 License Name: Berkebile Nelson Immenschuh McDowell Incorporated Profession Name: Architectural Corp. Licensee Number: 000377

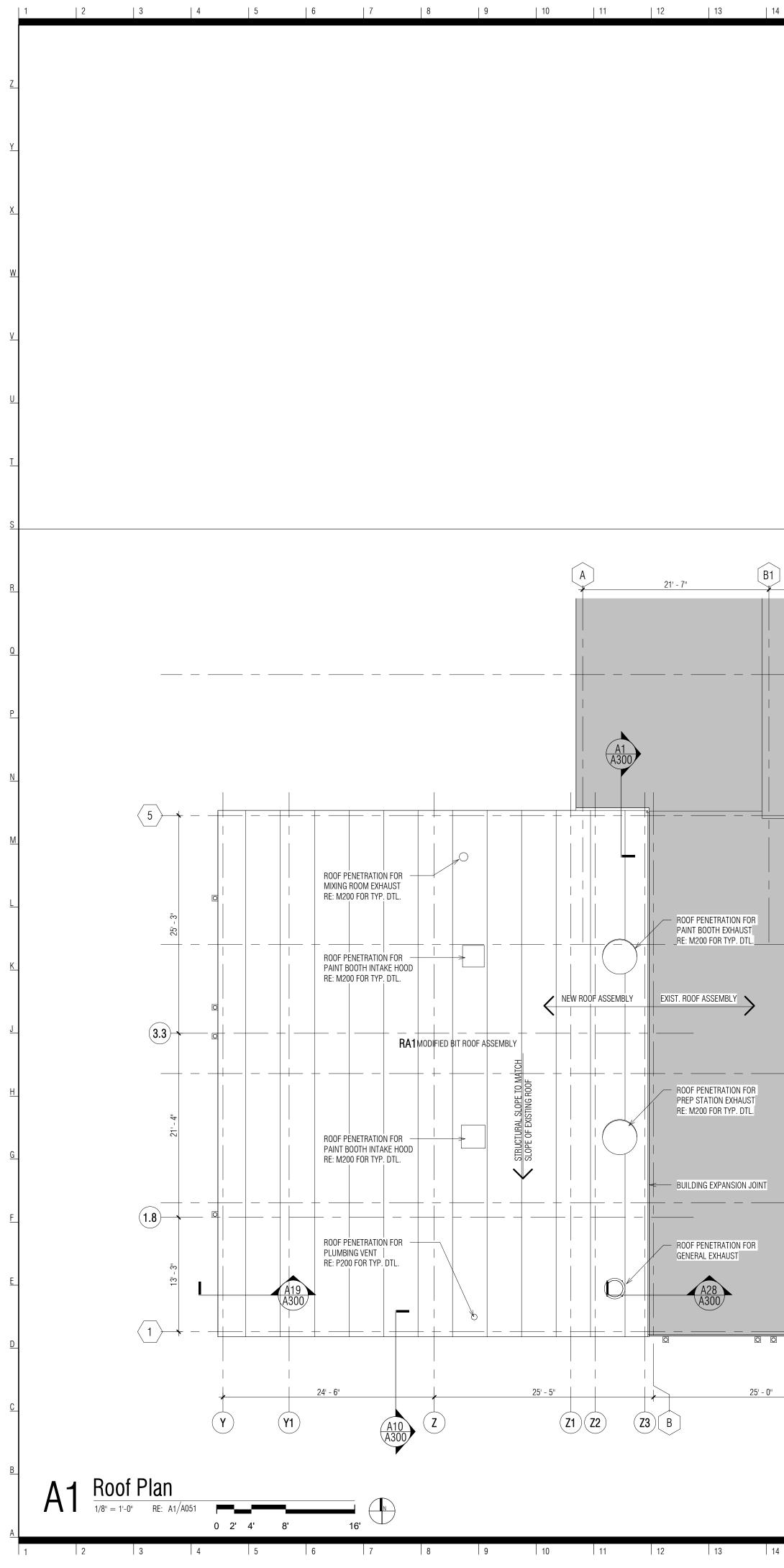
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Lee's Summit, Missouri 12/30/2021

FLOOR PLAN

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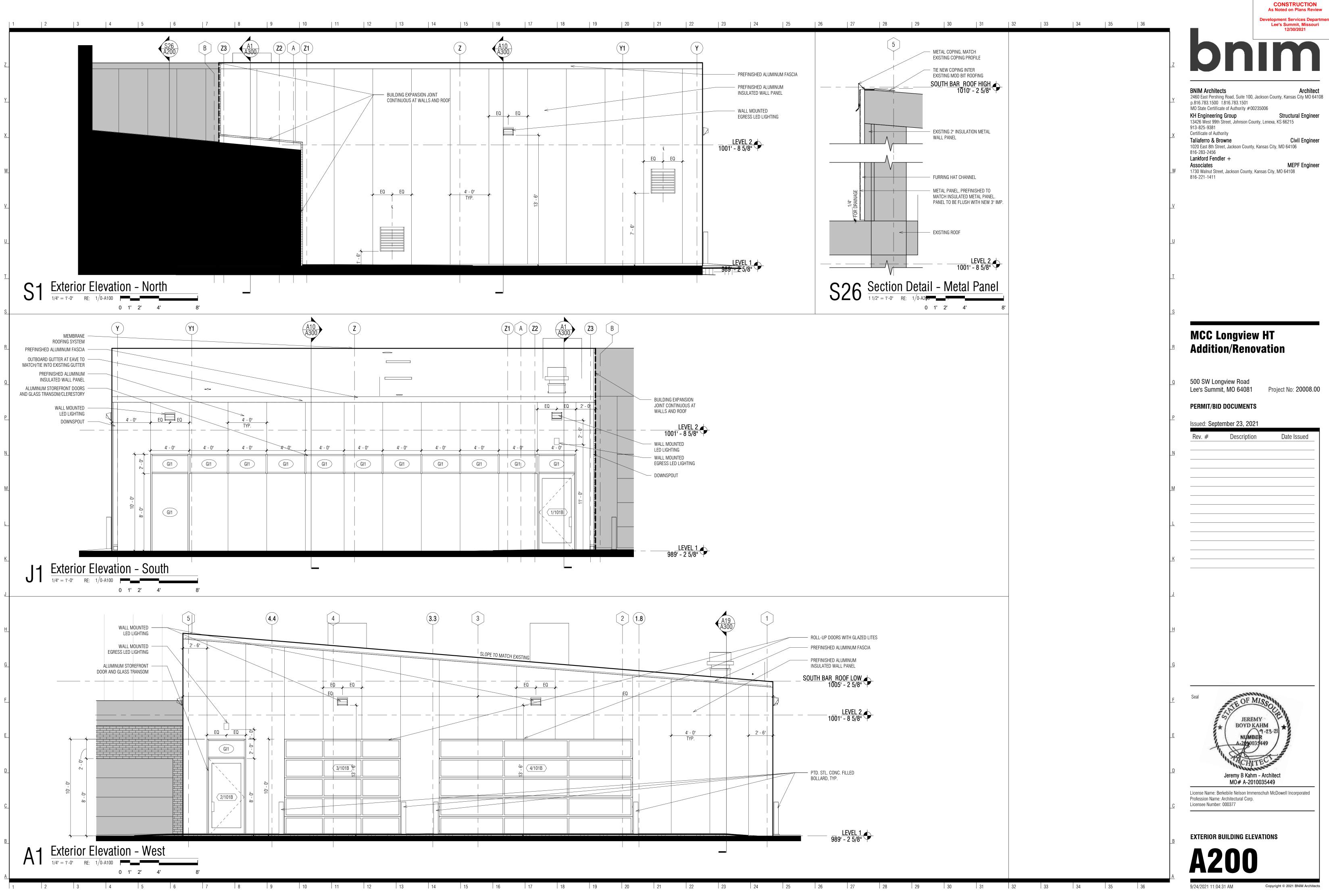
14	5 16 17 18	19 20 21 22	23 24 25 26	27 28 29	30 31 32	33 34 35 36 ROOF PLAN GENERAL NOTES	
						 REFERENCE < A041 > FOR ROOF ASSEMBLIES. REFER TO MEP SHEETS FOR ROOFTOP EQUIPMENT LOCATIONS AND PENETRATIONS. SEAL AND FLASH ALL PENETRATIONS AND CURBS PER ROOFING SYSTEM MANUFACTURER'S STANDARD 	
						 DETAILS. 4. COORDINATE EXACT LOCATIONS OF ROOFTOP EQUIPMENT AND PENETRATIONS WITH STRUCTURE. REINFORCE OPENINGS AS REQUIRED. 5. PROVIDE EQUIPMENT CURBS / RACKS FOR ALL ROOF 	BNIM Architects 2460 East Pershing R p.816.783.1500 f.81 MO State Certificate c
						 MOUNTED EQUIPMENT, WHETHER SHOWN OR NOT, REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE MANUFACTURER'S STANDARD WALKWAY PADS AT PERIMETER OF ALL ROOFTOP EQUIPMENT WITH 	KH Engineering G 13426 West 99th Stre 913-825-9381 Certificate of Authority Taliaferro & Brown
						 DIRECT PATH TO THE ROOF ACCESS POINT(S). 7. MAINTAIN ROOFING SYSTEM MANUFACTURER'S MINIMUM REQUIRED SLOPE. 8. PROVIDE ROOF INSULATION CRICKETS WITH POSITIVE SLOPES AT ALL EQUIPMENT, CURBS AND ROOF 	1020 East 8th Street, v 816-283-2456 Lankford Fendler Associates ₩ 1730 Walnut Street, J
						 PENETRATIONS. 9. PROVIDE MIMIMUM INSULATION THICKNESS PER SPECIFICATIONS, TAPER SHALL BE IN ADDITION TO THE MINIMUM THICKNESS. 10. ROOFTOP EQUIPMENT AND ITEMS REQUIRING 	816-221-1411
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						 FLASH FACILITY FALL PROTECTION SUPPORTS (118129) PER ROOFING SYSTEM MANUFACTURER'S STANDARD DETAILS. 12. ROOF LADDERS: RAILS AND BRACES FABRICATED FROM 2" x 1/2" THICK GALZANIZED STEEL (05 50 00). ANCHOR 	Ū
						 TO WALL WITH 3" x 3" x 1/4" CLIP ANGLES AND 3/8" DIA. ANCHORS (05 50 00). PROVIDE BLOCKING AS REQUIRED. 13. STEEL FRAMING FOR SUPPORT OF EQUIPMENT SUSPENDED ABOVE THE ROOF MEMBRANE TO BE 2" x 2" x 1/8" STEEL TUBE FRAMING, U.N.O. 	Ι
						 MAINTAIN CONTINUITY OF VAPOR BARRIER BETWEEN ROOF AND WALL ASSEMBLIES. PROVIDE CONTINOUS PERIMETER FIRE CONTAINMENT SYSTEM (078466) AT PERIMETER OF ROOF SLABS, BETWEEN ROOF SLABS AND WALL PANELS OR ROOF 	<u>S</u>
	<u>'' - 1 1/2"</u> <u>C1</u> 5' - 11 1/8" <u>C2</u> 11' - 2 3/8"	D1 11' - 7 3/4" D2 D3 1	<u>7' - 1 1/2"</u> <u>E1</u> <u>27' - 8</u>	1/2" F1		SLABS AND GLAZING SYSTEMS.	MCC Log Addition
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					 8. PROVIDE ROOF INSULATION CRICKETS WITH POSITIVE SLOPES AT ALL EQUIPMENT, CURBS AND ROOF PENETRATIONS. 9. PROVIDE MIMIMUM INSULATION THICKNESS PER SPECIFICATIONS, TAPER SHALL BE IN ADDITION TO THE MINIMUM THICKNESS. 10. ROOFTOP EQUIPMENT AND ITEMS REQUIRING MAINTENANCE / ACCESS SHALL NOT BE INSTALLED WITHIN 10 FEET OF THE PRIMARY ROOF EDGE EXCEPT WHERE OSHA COMPLIANT FALL PROTECTION IS INDICATED. 11. WHERE FALL PROTECTION SUPPORTS (118129) PER ROOFING SYSTEM MANUFACTURER'S STANDARD DETAILS. 12. ROOF LADDERS: RAILS AND BRACES FABRICATED FROM 2" x 1/2" THICK GALZANIZED STEEL (05 50 00). ANCHOR TO WALL WITH 3" x 3" x 1/4" CLIP ANGLES AND 3/8" DIA. ANCHORS (05 50 00). PROVIDE BLOCKING AS REQUIRED. 13. STEEL FRAMING FOR SUPPORT OF EQUIPMENT SUSPENDED ABOVE THE ROOF MEMBRANE TO BE 2" x 2" x 1/8" STEEL TUBE FRAMING, U.N.O. 14. MAINTAIN CONTINUITY OF VAPOR BARRIER BETWEEN ROOF AND WALL ASSEMBLIES.
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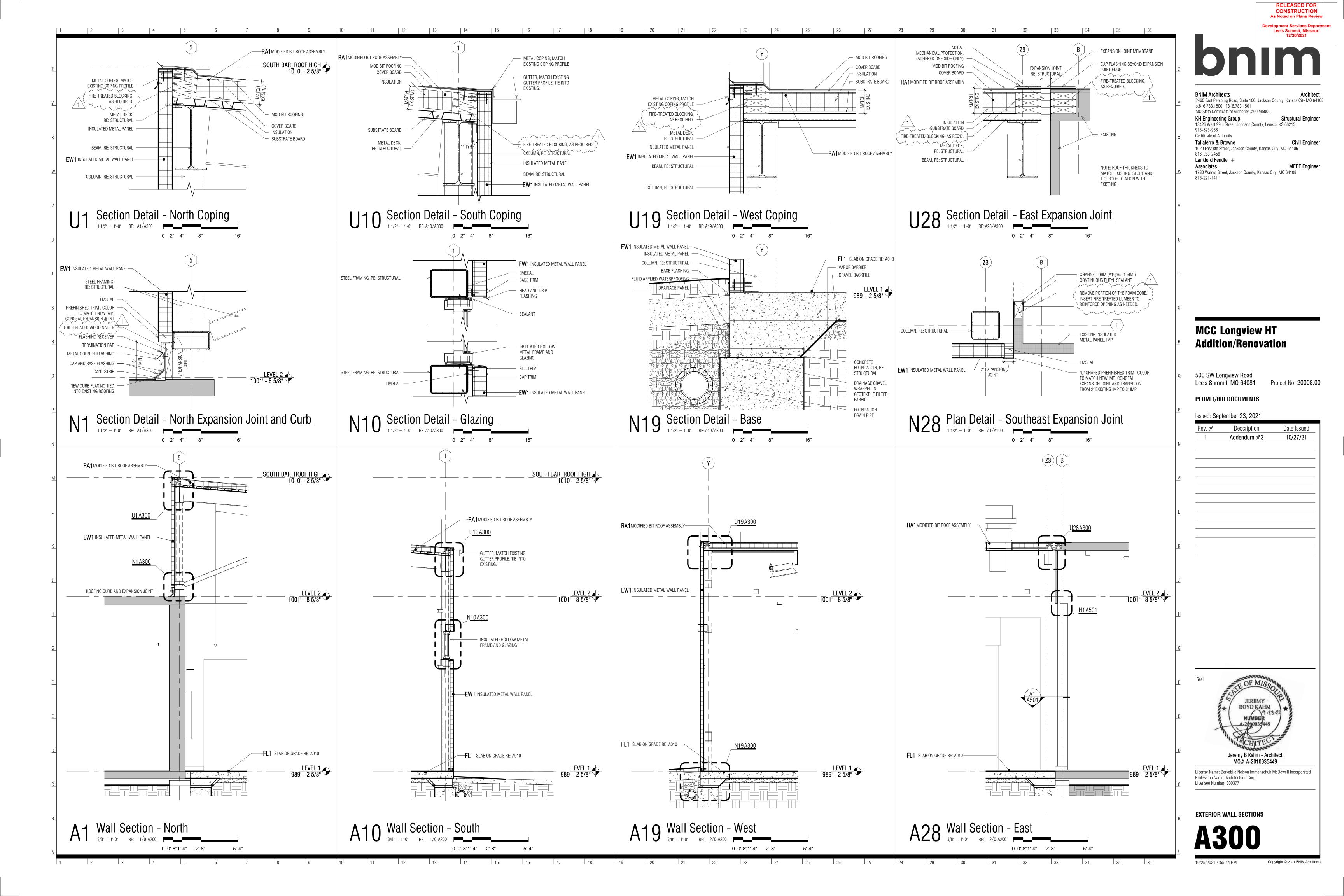
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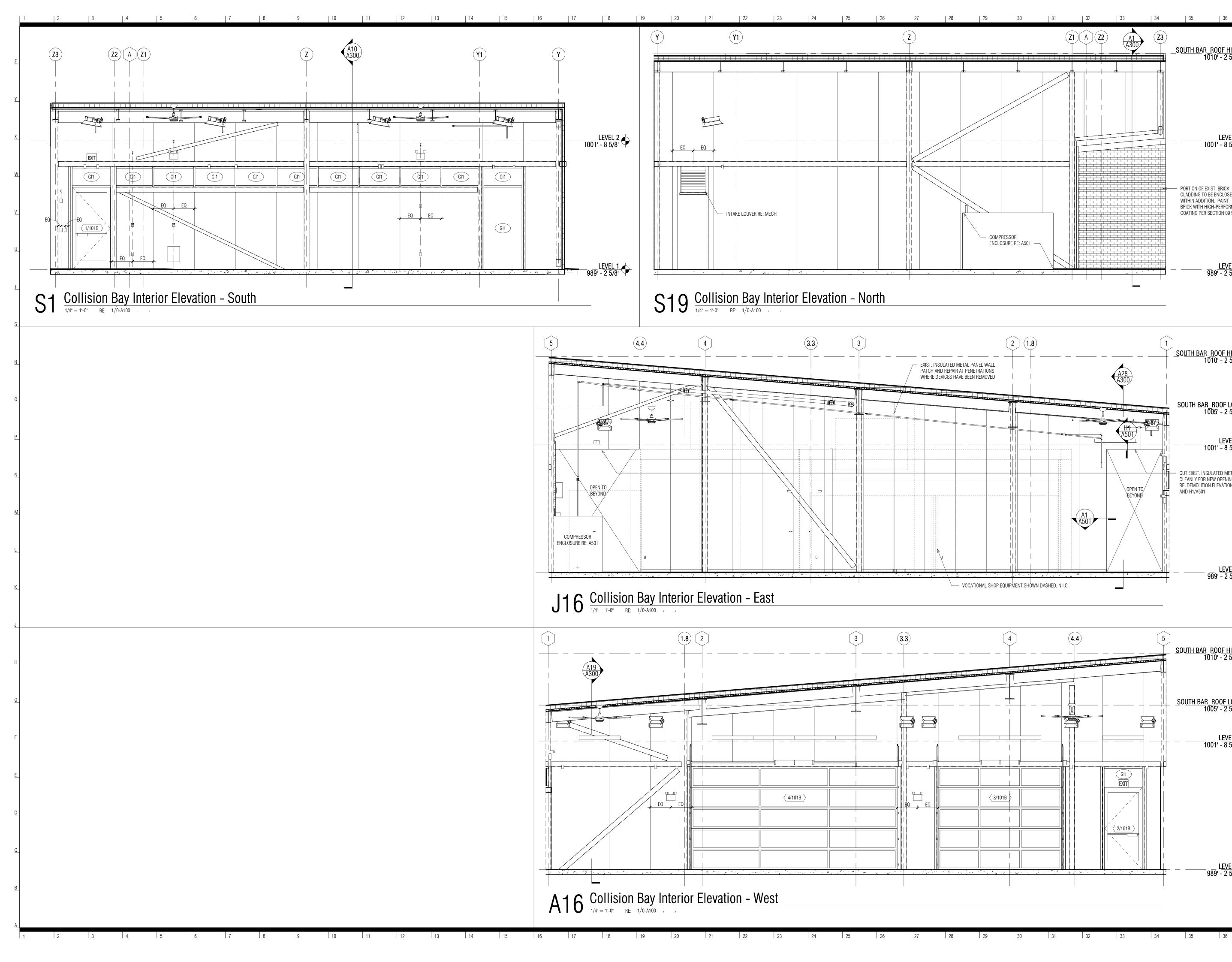
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Development Services Departmen Lee's Summit, Missouri 12/30/2021 (Z1) (A) (Z2)**(Z3)** bnim A1 A300 BNIM ArchitectsArchitect2460 East Pershing Road, Suite 100, Jackson County, Kansas City M0 64108 p.816.783.1500 f.816.783.1501 MO State Certificate of Authority #00235006 KH Engineering Group Structural Engineer 13426 West 99th Street, Johnson County, Lenexa, KS 66215 913-825-9381 Certificate of Authority <u>LEVEL 2</u> 1001' - 8 5/8" Taliaferro & Browne Civil Engineer 1020 East 8th Street, Jackson County, Kansas City, MO 64106 816-283-2456 Lankford Fendler + **MEPF Engineer** Associates 1730 Walnut Street, Jackson County, Kansas City, MO 64108 816-221-1411 - PORTION OF EXIST. BRICK CLADDING TO BE ENCLOSED WITHIN ADDITION. PAINT BRICK WITH HIGH-PERFORMANCE COATING PER SECTION 09 91 00 - COMPRESSOR ENCLOSURE RE: A501 — LEVEL 1 989' - 2 5/8" 2 (1.8) MCC Longview HT _____SO<u>UTH BAR_ROOF HIGH</u>_____ 1010' - 2 5/8" •____ **Addition/Renovation** 500 SW Longview Road SOUTH BAR ROOF LOW 1005' - 2 5/8" Lee's Summit, MO 64081 Project No: 20008.00 **PERMIT/BID DOCUMENTS** A501 ____<u>LEVEL 2</u> 1001' - 8 5/8" • Issued: September 23, 2021 Rev. # Description Date Issued CUT EXIST. INSULATED METAL PANEL CLEANLY FOR NEW OPENING **RE: DEMOLITION ELEVATIONS** \OPEN TO/ AND H1/A501 BEYOND <u>LEVEL 1</u> 989' - 2 5/8" VOCATIONAL SHOP EQUIPMENT SHOWN DASHED, N.I.C. (4.4) 4 5 <u>SOUTH BAR ROOF HIGH</u> 1010' - 2 5/8" SOUTH BAR ROOF LOW 1005' - 2 5/8" L<u>EVEL 2</u> 1001' - 8 5/8" JEREMY BOYD KAHM 19.23 (GI1) EXIT 3/101B Jeremy B Kahm - Architect MO# A-2010035449 2/101B License Name: Berkebile Nelson Immenschuh McDowell Incorporated Profession Name: Architectural Corp. Licensee Number: 000377 _____L<u>EVEL 1</u>_____ 989' - 2 5/8" • INTERIOR ELEVATIONS AND DETAILS A500

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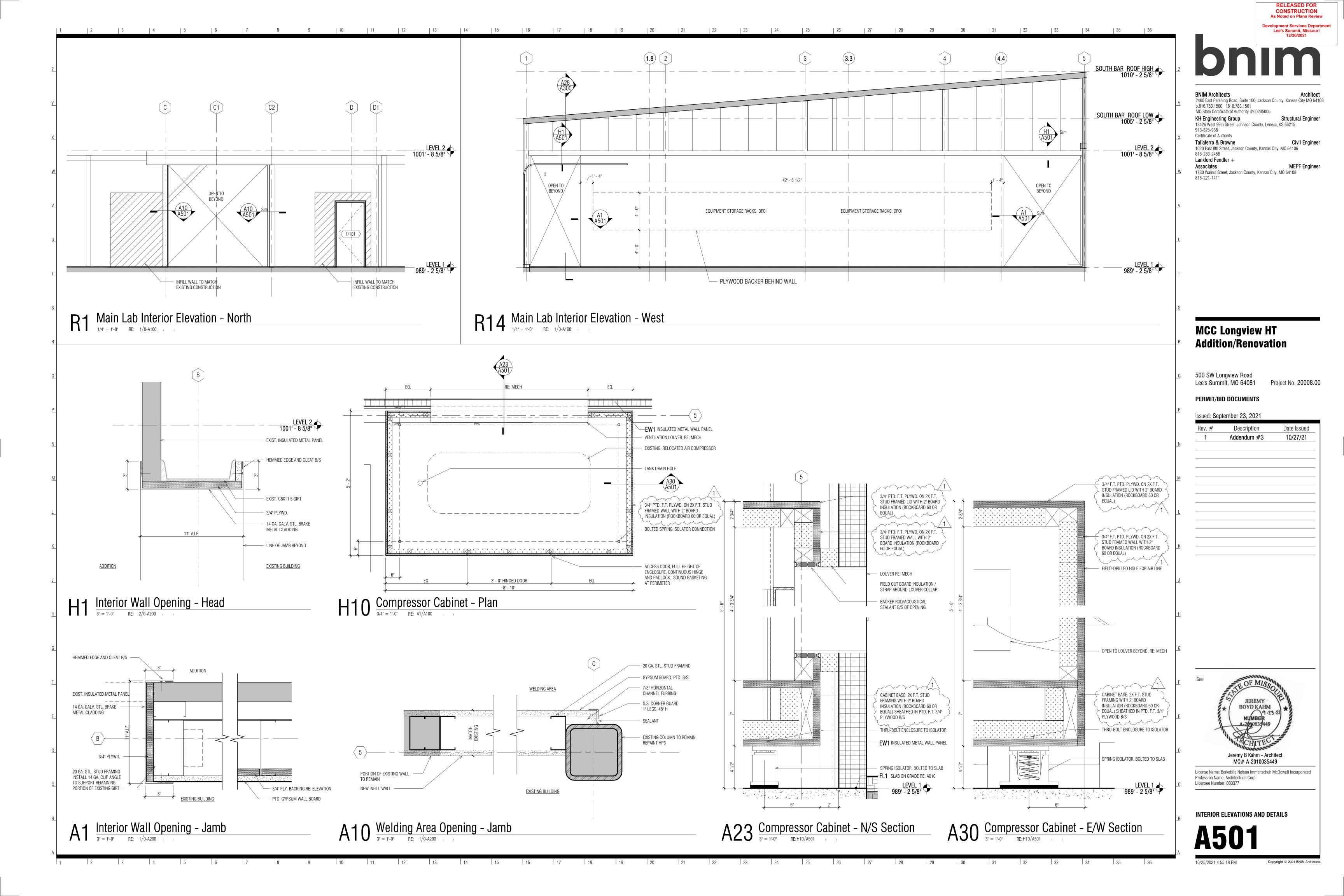
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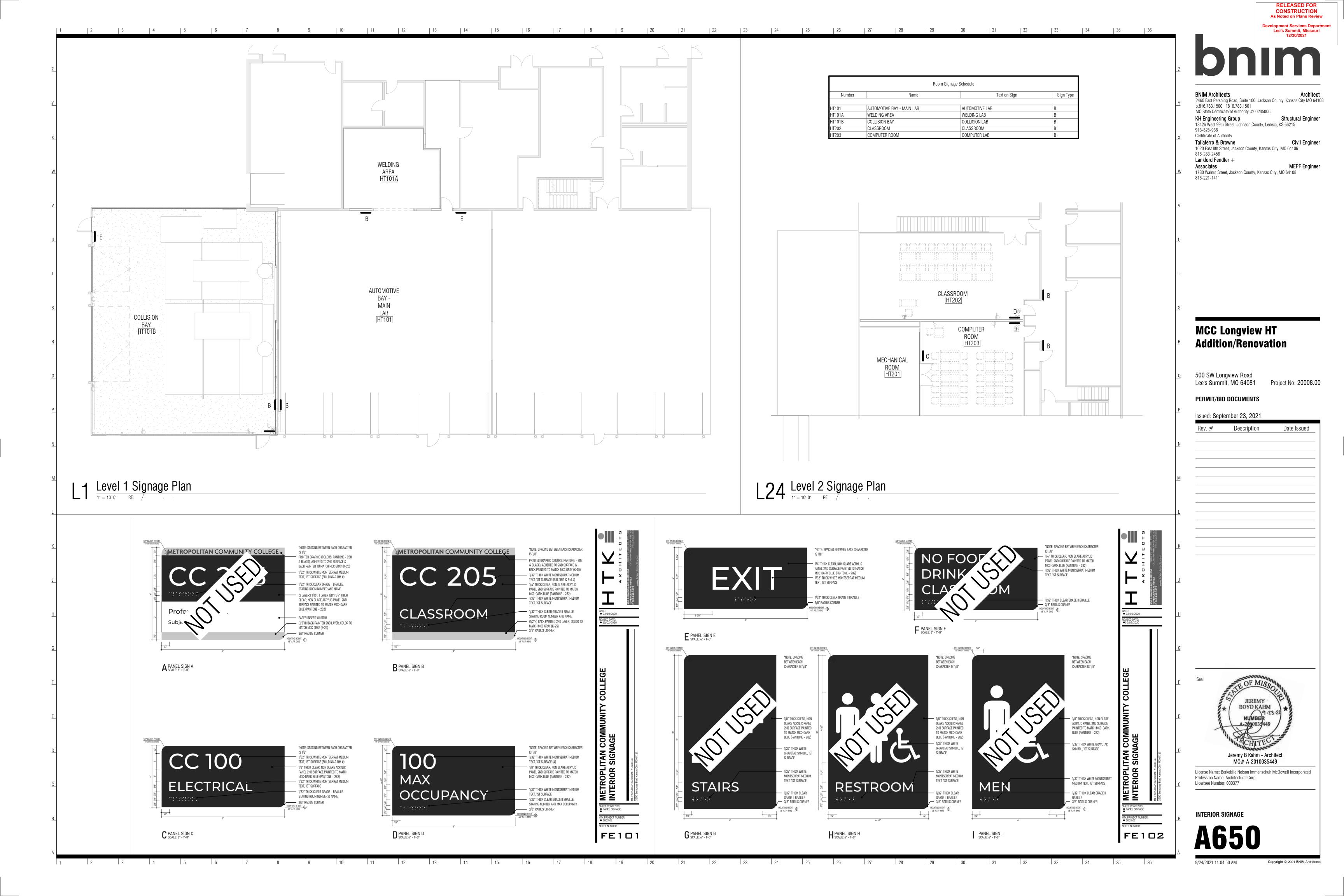
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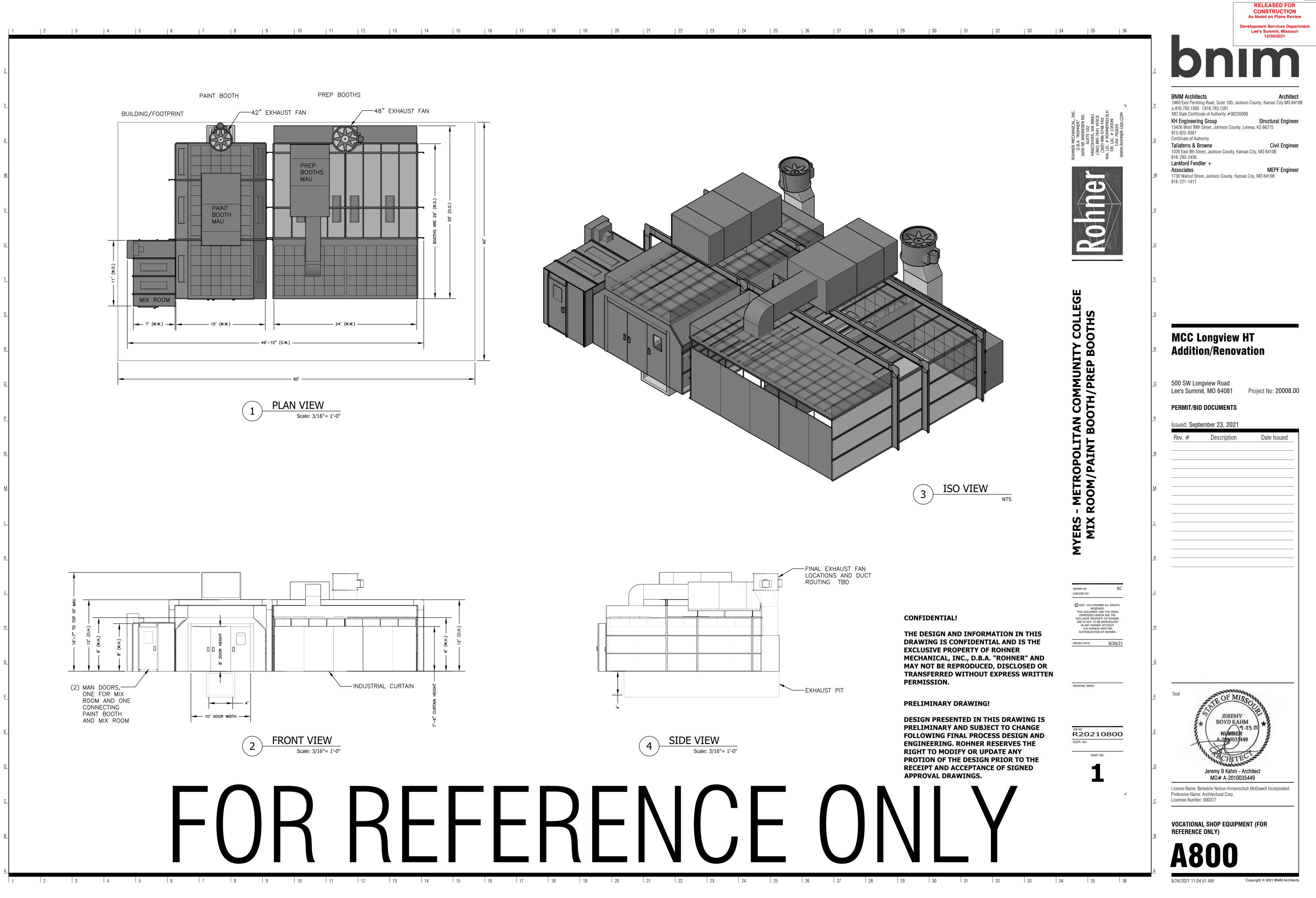
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URNISH SPECIAL INSPECTION REPORTS TO THE HITECT AND STRUCTURAL ENGINEER, ETC.			ALL CONTRACT DEPTH. CUT JO WITHOUT DISLO	OINTS AS SOC ODGING AGGF	ON AS POSS REGATE, OI	SIBLE AFTEF R USE KEYE	R CONCRETE	HAS BEEN IT. CONTRA	PLACED ACTION		F.	FILLE MINIM THINN
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FOUNDATION CONTRACTOR SHALL UNDERSTAND REPORT BEFORE BIDDING THE WORK. IN THE GEOTECHNICAL REPORT SHALL BE INCLUDED	(Э.	CORRECTIVE A		BE EMBED	DED IN CON	CRETE.				J.	OVER UNLE THE (
LESS SPECIFIED OR DETAILED OTHERWISE.	I	> .	REFERENCE TH	HE SPECIFICA	TONS FOR	ADDITIONAL	REQUIREM	ENTS.			J.	MISC
OILS REPORT NO. J039128.01 DATED JULY 19, 2021_ 5055 ANTIOCH ROAD, OVERLAND PARK, KANSAS	6. <u> </u>	REINF	ORCING STEEL	-								EVER
STING FOOTINGS AND FOUNDATIONS THAT ARE	,		REINFORCING			•	PLACED, AND	SUPPORTE	ED IN		K.	THE S
OF THE NEW BUILDING.			ALL REINFORC				,	EPT WELDE	D	8.	STE	EL DEC
INEER OF ANY UNUSUAL SOIL CONDITIONS THAT ARE NICAL REPORT OR WHEN DIFFERENT BEARING IS A QUESTIONS OF BEARING CAPACITY.		C.	ALL WELDED W ASTM A82.	/IRE FABRIC S	HALL BE A	STM A185. A	ALL COLD DR	AWN WIRE	SHALL BE		A.	ALL S EREC INSTI
A GEOTECHNICAL ENGINEER REGISTERED IN THE DCATED TO TEST AND OBSERVE ALL EARTHWORK, I MATERIAL TO VERIFY COMPLIANCE WITH THE	I		ALL ACCESSOF PLASTIC-COAT PROVIDE ACCE	ED FEET. WH	IERE CONC	RETE IS SAN					B.	META STEE
TRACT DOCUMENTS. CONCRETE SHALL NOT BE ENGINEER'S APPROVAL.	I	Ξ.	PROVIDE CORN CORNERS AND					and grade	E BEAM			TO RE ACCC USED
GS ARE DESIGNED TO BEAR ON NON-EXPANSIVE 00_PSF.	I		PROVIDE AT LE FOOTINGS, ANI			BARS AT ALL	STEPS IN F	OUNDATION	I WALLS,		C.	DECK
ISIBLE FOR REMOVAL AND DISPOSAL OF UNSUITABLE RIAL TO AN APPROVED LANDFILL.			THE FOLLOWIN LENGTHS FOR MATERIALS, FIE WORK SHALL B	IG ADDITIONA GENERAL JOE ELD FABRICAT	L REINFOR B USE AS D	IRECTED BY	THE ENGINI	EER. ALL C	OSTS FOR	9.	ANC A.	HORS: CONC
ED AND DESIGNED BY A SPECIALTY GEOTECHNICAL FESSIONAL ENGINEER TO SUPPORT THE LOADS			10 -	- #4X30'-0"		#5X30'-0"		6X30'-0"				a.
MENTS. ONTRACTOR SHALL SUBMIT SHOP DRAWINGS			STANDARD CO' FOLLOWS:									b.
PROFESSIONAL ENGINEER FOR COORDINATION ITILITIES. SHOP DRAWINGS SHALL SHOW ALL DETAILS D CONNECTOIN TO THE CONCRETE FOUNDATIONS.	3		EXPOSED NOT EXP	AINST EARTH, D TO EARTH & OSED TO EAR ND COLUMNS	WEATHER	(FORMED) ATHER: SLAI	BS, WALLS		2" 3/4"			C.
ALTY GEOTECHNICAL CONTRACTOR'S PROFESSIONAL R INDICATING THAT THE HELICAL PIERS WERE R DESIGN AND ARE SUTABLE TO SUPPORT THE			all field plac Shall be in ac) AS EPOXY	-COATED		В.	EMBE THE L THE <i>A</i>
			ALL EPOXY CO. SUPPORT SYS FIELD BENDING DAMAGE SHALI	TEMS, TIE WIF G AND EPOXY	RES, FIELD REPAIR, FI	WELD SPLIC	CES, FIELD M RS, AND GEN	ECHANICAL	SPLICES,		C.	EQUI SUBM REPC
TRUCTION SHALL CONFORM TO THE LATEST DOCUMENTS, ACI-301, 305, 306, 315, 318 AND 347 AND NSTITUTE MANUAL OF STANDARD PRACTICE UNLESS NTRACT DOCUMENTS.			REINFORCE AL SIMILAR SECTI REQUIREMENT	ONS OR AREA							D.	INSTA DOCL
_ WEIGHT CONCRETE.	I		WELDED WIRE	FABRIC SHAL	L BE LAPPI	ED ONE FUL	L MESH SPA	CING.			E.	ANCH ANCH INSTA
ISE NOTED, SHALL DEVELOP A MINIMUM 28 DAY MAXIMUM WATER/CEMENT RATIO AND ACI 318	I		AT ALL OPENIN PLUS 5'-0") AT E OF FOUR CORM	EACH OF THE							F.	INDIC
<u>STRENGTH (w/c)</u> AMS: 4500 PSI (w/c≤0.45) F2,C1,W1,S0	I	N.	ALL SPLICES S	HALL BE CLAS	S "B" TENS	SION LAP SP	LICE, UNLES	S NOTED.			G.	EXIST
ADE:4000 PSI $(w/c \le 0.45)$ F2,01,01,00ABS:5000 PSI $(w/c \le 0.40)$ F0,C2,W1,S05000 PSI $(w/c \le 0.40)$ F3,C2,W1,S0	(LAP TOP BARS LOCATIONS.	AT MID-SPAN	AND BOTT	OM BARS A	T SUPPORTS	, UNO. STA	GGER LAP			DURII OF TH ANCH
RETE SPECIFICATIONS THAT THE CONTRACTOR	-		CTURAL STEEL	-						10.	SUB	MITTAL
MINIMUM AMOUNT OF WATER IN ORDER TO LIMIT I FRESHLY PLACED CONCRETE. IT IS EXPECTED TE MIXES WILL REQUIRE THE ADDITION OF WATER- CIZING CHEMICAL ADMIXTURES. WATER SHALL NOT			ALL STRUCTUR ACCORDANCE AISC, "CODE OI	WITH AISC, "S	SPECIFICAT	TION FOR ST	RUCTURAL S	STEEL BUILD	DINGS" AND		A.	ALL S CONT LIMITI
ON SITE.	I		b. ANGLES,	ANGE SHAPES PLATES, CHA	S AND WT S NNELS		ASTM A992 ASTM A36					STRE ANY (OR OI
THE SPECIFICATIONS TO ACHIEVE 25%-40% CEMENT			d. RECTANC	CONNECTION GULAR HSS SH ISS SHAPES			ASTM A992 ASTM A500 ASTM A500	, GRADE B			В.	ALL S REPR
XIMUM OF 4" +/- 1" (ASTM C-143) AS DELIVERED IN E CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM			f. PIPE g. ANCHOR		S		ASTM A530 ASTM A53, ASTM F1554 ASTM A325	GRADE B 4, GRADE 36	6		C.	SUBN CONN
N-GRADE, SUSPENDED SLABS, WALLS, COLUMNS TRAINED AND CONTAIN 6% (+/- 1 1/2%) ENTRAINED			i. HEADED j. WELDED	CONNECTION			ASTM A108 E70XX ELEC	, GRADE 10 ² CTRODES			D.	OF A CONT
ATE. NHIBITOR SHALL BE INCLUDED IN ALL CONCRETE			ALL BOLTS SHA OTHERWISE OI DIAMETER BOL OTHERWISE IN	N DRAWINGS. .TS, SNUG-TIG	ALL CONN HTENED T	NECTIONS SH	HALL HAVE A	MINIMUM C	OF TWO 3/4"			a. b. c. d.
NOT BE USED IN ANY CONCRETE ADMIXTURE.	I	D.	BEAM CONNEC ONE-HALF THE									а. e.
NISHED AND INSTALLED BY THE CONTRACTOR PRIOR		_	SPAN AND GRA	ADE OF STEEL					,		E.	DELE
S OF CONCRETE WALLS, BEAMS, AND COLUMNS 3/4".	I		ALL STRUCTUR BY A CERTIFIEI A.W.S.									FOLL(
PLACE WITH A RIGID TEMPLATE.	I	₹.	SHOP WELDED OTHERWISE SH		OLTED COM	NNECTIONS	ARE PREFEF	RED, UNLE	SS			b. c. d.
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RELEASED FOR CONSTRUCTION As Noted on Plans Review **Development Services Departmen**

Architect

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						-

FILLET WELDS NOT SPECIFICALLY SIZED IN THESE DOCUMENTS SHALL BE THE MINIMUM SIZE IN ACCORDANCE WITH AWS D1.1 LATEST EDITION, DEPENDENT ON THE THINNER PART JOINED, BUT NO LESS THAN 3/16".

ALL STRUCTURAL STEEL SHALL HAVE ONE COAT OF RUST INHIBITOR PRIMER PAINT CONFORMING TO THE PROJECT MANUAL. FIELD TOUCHUP ALL UNPAINTED AREAS AND WELDED AREAS.

PROVIDE GALVANIZED BOLTS AND ANCHORS AT ALL EXTERIOR EXPOSED LOCATIONS AND AT ALL LOCATIONS WHERE ANCHORS COME INTO CONTACT WITH MASONRY OR CONCRETE. CLEAN AREAS WHERE GALVANIZING IS DAMAGED OR MISSING AND REPAIR.

ALL OPENINGS IN ROOF OVER 8" IN ANY DIRECTION, ROOF DRAINS AND ROOF OVERFLOW DRAINS SHALL HAVE A L3x3x1/4 ANGLE FRAME (4 SIDES) BETWEEN JOISTS. UNLESS OTHERWISE NOTED ON DRAWINGS.

THE CONTRACTOR SHALL PROVIDE SHELF ANGLES, GLASS SUPPORTS, AND OTHER MISCELLANEOUS STEEL, AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE SUPPORT (STABILIZATION) AROUND AND THROUGHOUT THE BUILDING. NOT EVERY DETAIL IS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL MISCELLANEOUS METAL DETAILS.

THE STEEL FABRICATOR SHALL PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM AND BE DESIGNATED AS AN AISC-CERTIFIED PLANT.

L DECK:

ALL STRUCTURAL STEEL DECK SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST SPECIFICATION OF THE STEEL DECK INSTITUTE DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND CELLULAR METAL FLOOR DECK WITH ELECTRICAL DISTRIBUTION.

STEEL ROOF DECK SHALL BE 1-1/2", WIDE RIB, 22 GAGE, WELDED IN A 36/7 PATTERN TO RESIST WIND UPLIFT PER CODE AND 350 LB/FOOT DIAPHRAGM SHEAR, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DECK WEIGHT MAY BE USED TO REDUCE UPLIFT LOADS.

DECK SHALL BE CONTINUED OVER THREE OR MORE SPANS.

CONCRETE:

- a. ALL POST-INSTALLED ANCHORS SHALL MEET THE REQUIREMENTS OF ACI 318, APPENDIX D AND SHALL BE ACCEPTABLE FOR CRACKED CONCRETE.
- MECHANICAL ANCHORS FOR CRACKED CONCRETE SHALL BE HILTI KWIK HUS EZ b. SCREW ANCHORS PER ICC ESR-3027 UNLESS NOTED OTHERWISE.
- ADHESIVE ANCHORS FOR CRACKED CONCRETE SHALL BE HILTI HIT-HY 200 SAFE SET SYSTEM W/ HILTI HAS-E THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REINFORCING PER ICC ESR-3187, UNLESS NOTED OTHERWISE.

EMBEDMENT DEPTH SHALL BE DEFINED AS THE DISTANCE FROM THE SURFACE OF THE LOAD BEARING BASE MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN DRIVEN INTO THE HOLE BUT NOT YET EXPANDED.

EQUIVALENT ANCHORS MAY BE SUBSTITUTED WITH THE ENGINEERS APPROVAL. SUBMITTAL IS THE CONTRACTOR'S RESPONSIBILITY AND MUST INCLUDE EVALUATION REPORTS FROM THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS.

INSTALL ANCHORS TO MEET THE REQUIREMENTS INDICATED IN THE CONTRACT DOCUMENTS, THE MANUFACTURER'S RECOMMENDATIONS AND ICC CODE REPORTS.

ANCHOR CAPACITY IS DEPENDANT UPON THE SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE OR MASONRY. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

STAINLESS STEEL ANCHORS ARE REQUIRED AT EXPOSED WEATHER CONDITIONS.

EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE SHALL NOT BE CUT DURING ANCHOR INSTALLATION UNLESS NOTED OTHERWISE. LOCATE THE POSITION OF THE EXISTING REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS BY FERROSCAN, GPR, X-RAY OR OTHER APPROVED MEANS.

/ITTALS:

ALL SHOP DRAWINGS AND SUBMITTALS MUST BE REVIEWED AND APPROVED BY THE CONTRACTOR PRIOR TO SUBMITTAL. ENGINEER'S REVIEW OF SHOP DRAWINGS IS LIMITED TO CHECKING FOR GENERAL CONFORMANCE WITH DESIGN DRAWINGS AND STRENGTH OF COMPONENTS AND MATERIALS. CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES FROM THE DESIGN DRAWINGS, QUANTITIES, DIMENSIONAL ERRORS OR OMISSIONS ON THE SHOP DRAWINGS.

ALL SHOP DRAWINGS MUST BE ORIGINAL DOCUMENTS AND SHALL NOT BE REPRODUCTIONS OF THESE CONTRACT DOCUMENTS.

SUBMIT SHOP DRAWINGS DETAILING FABRICATION OF EACH MEMBER AND ITS CONNECTIONS. DETAIL DRAWINGS ARE TO BE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER.

CONTRACTOR SHALL SUBMIT STRUCTURAL SHOP DRAWINGS FOR THE FOLLOWING:

- a. CONCRETE MIX DESIGN AND MATERIALS
- b. CONCRETE AND MASONRY REINFORCING STEEL
- CONCRETE FORMWORK C. d. STRUCTURAL STEEL
- e. STEEL DECK

DELEGATED DESIGN SUBMITTAL: CONTRACTOR SHALL SUBMIT SIGNED AND SEALED DESIGN ANALYSIS DATA BY A QUALIFIED PROFESSIONAL ENGINEER FOR THE FOLLOWING AND WHERE NOTED IN THE PROJECT SPECIFICATIONS:

- a. STRUCTURAL STEEL DESIGN
- CURTAINWALL b. ARCHITECTURAL METALS
- d. HANDRAILS

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BNIM Architects

2460 East Pershing Road, Suite 100, Jackson County, Kansas City MO 64108 p.816.783.1500 f.816.783.1501 MO State Certificate of Authority #00235006

KH Engineering Group Structural Engineer 13426 West 99th Street, Johnson County, Lenexa, KS 66215 913-825-9381

Certificate of Authority

Taliaferro & Browne Civil Engineer 1020 East 8th Street, Jackson County, Kansas City, MO 64106 816-283-2456

Lankford Fendler + MEPF Engineer Associates

1730 Walnut Street, Jackson County, Kansas City, MO 64108 816-221-1411

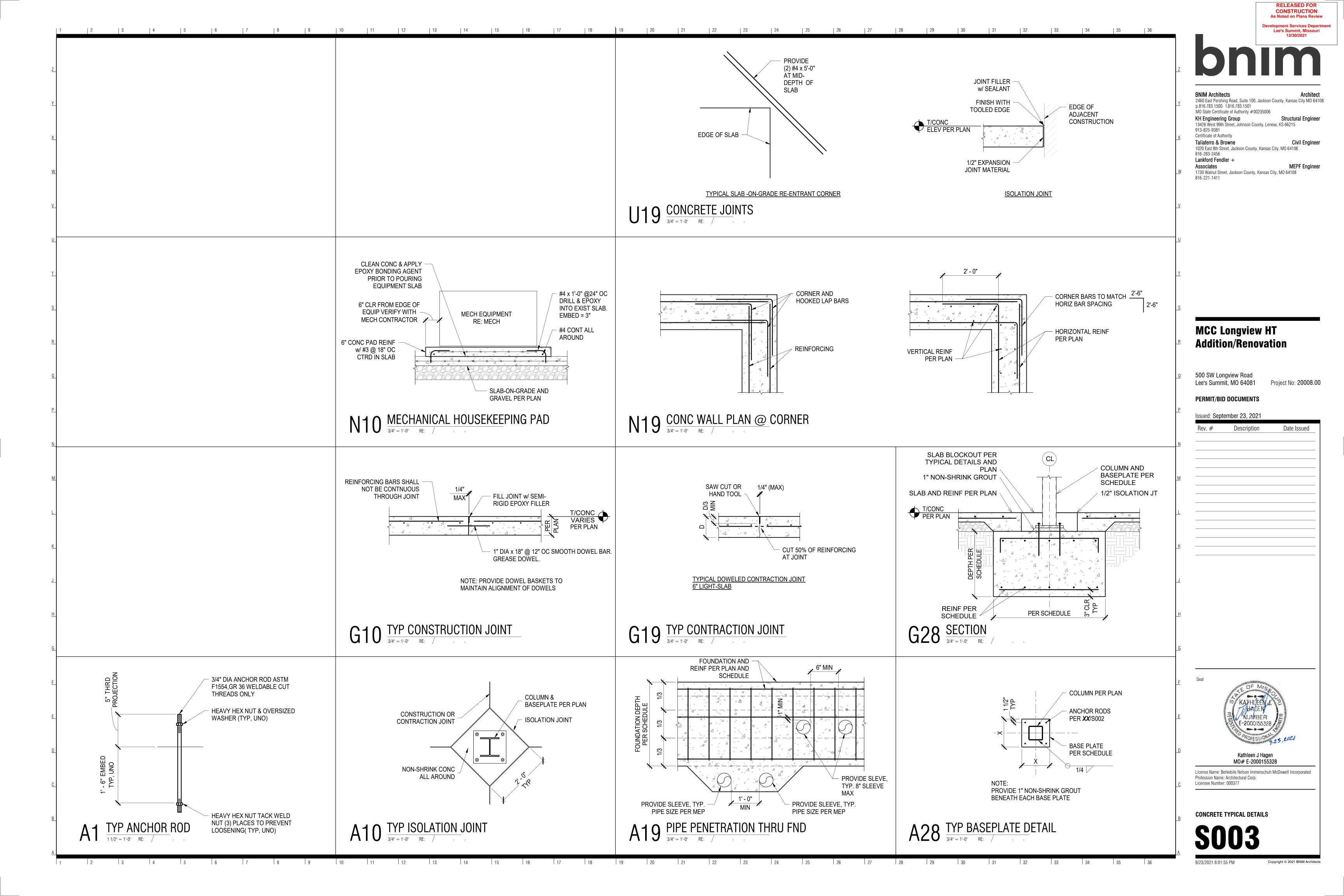
MCC Longview HT Addition/Renovation

500 SW Longview Road Lee's Summit, MO 64081 Project No: 20008.00

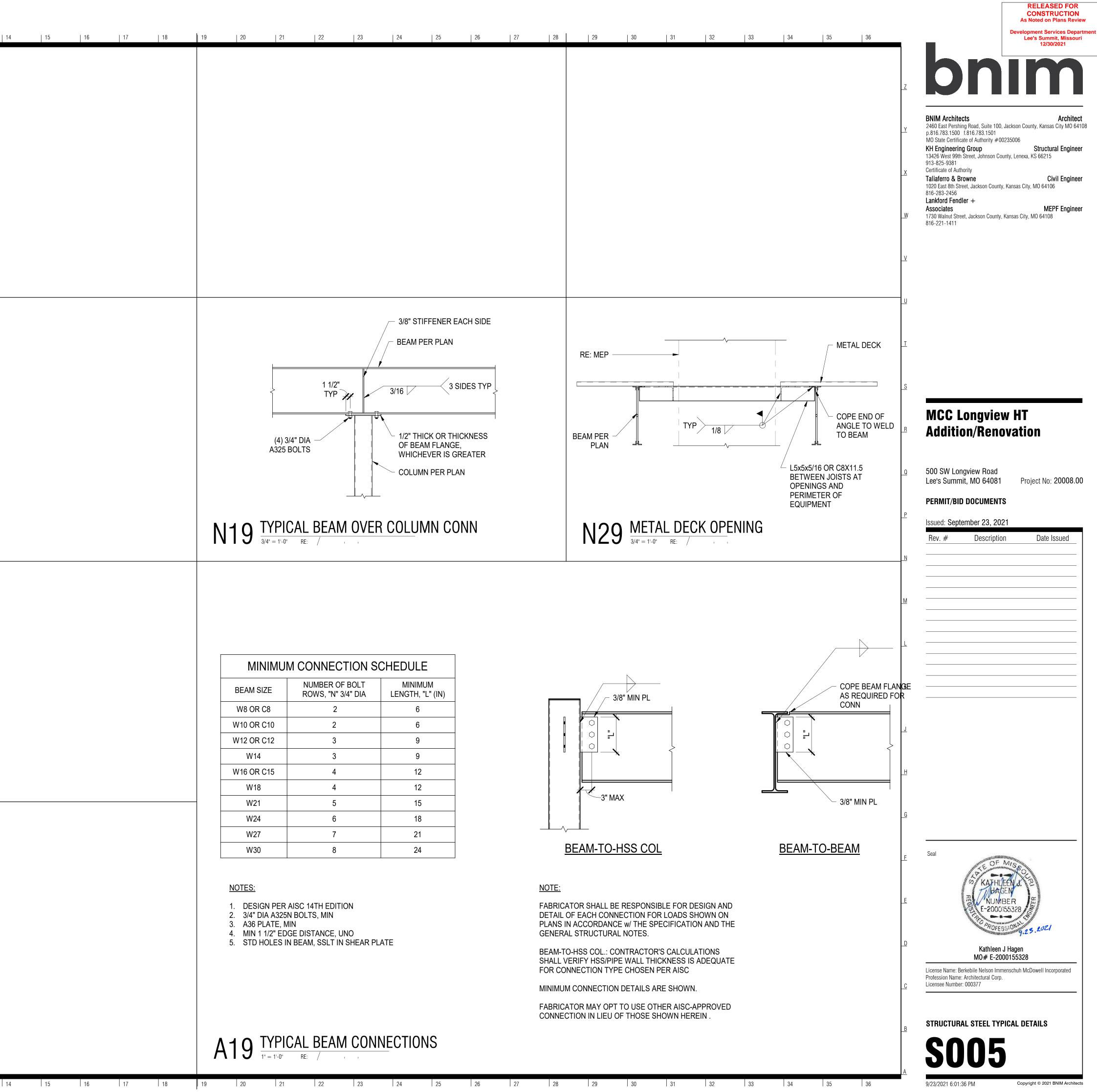
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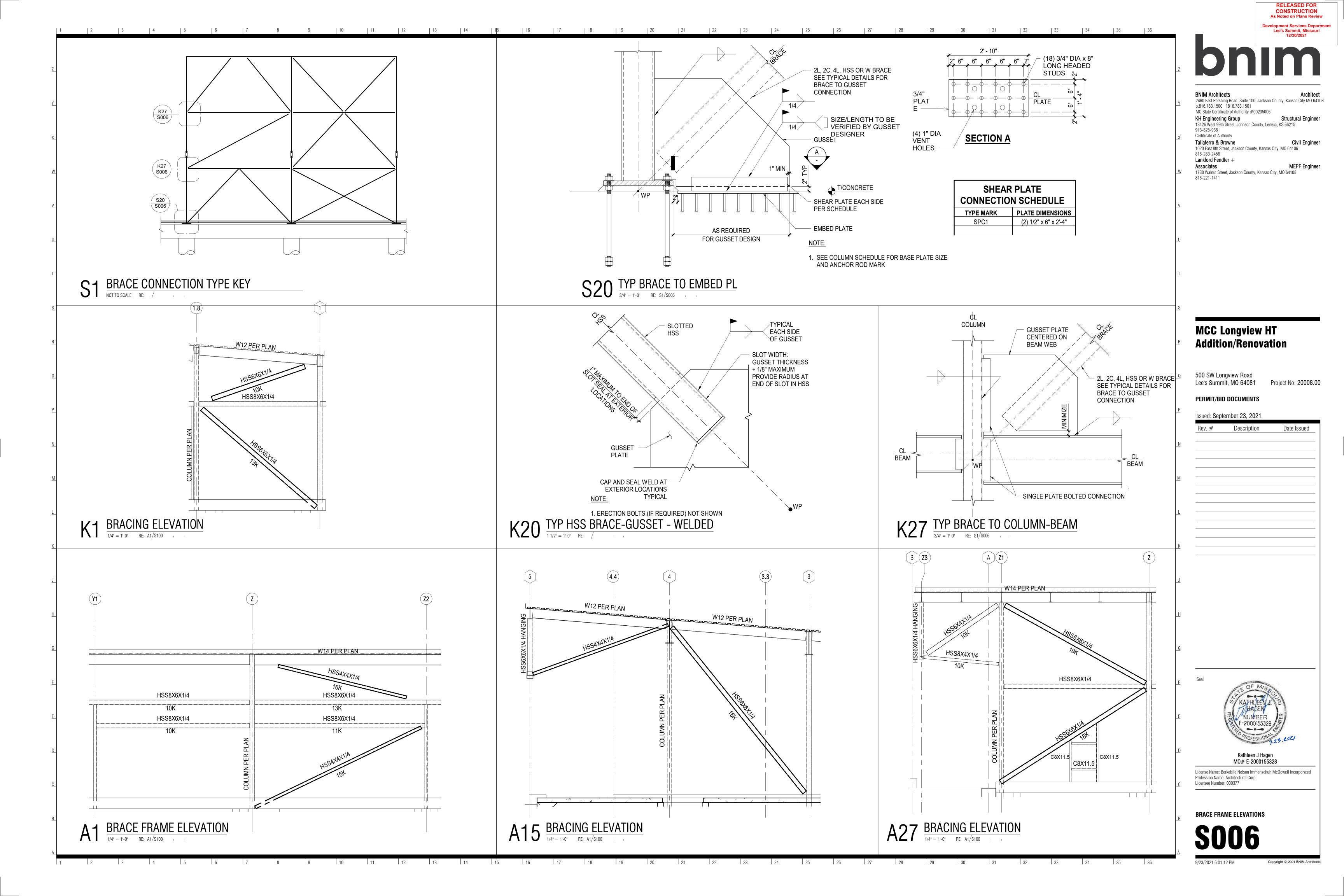
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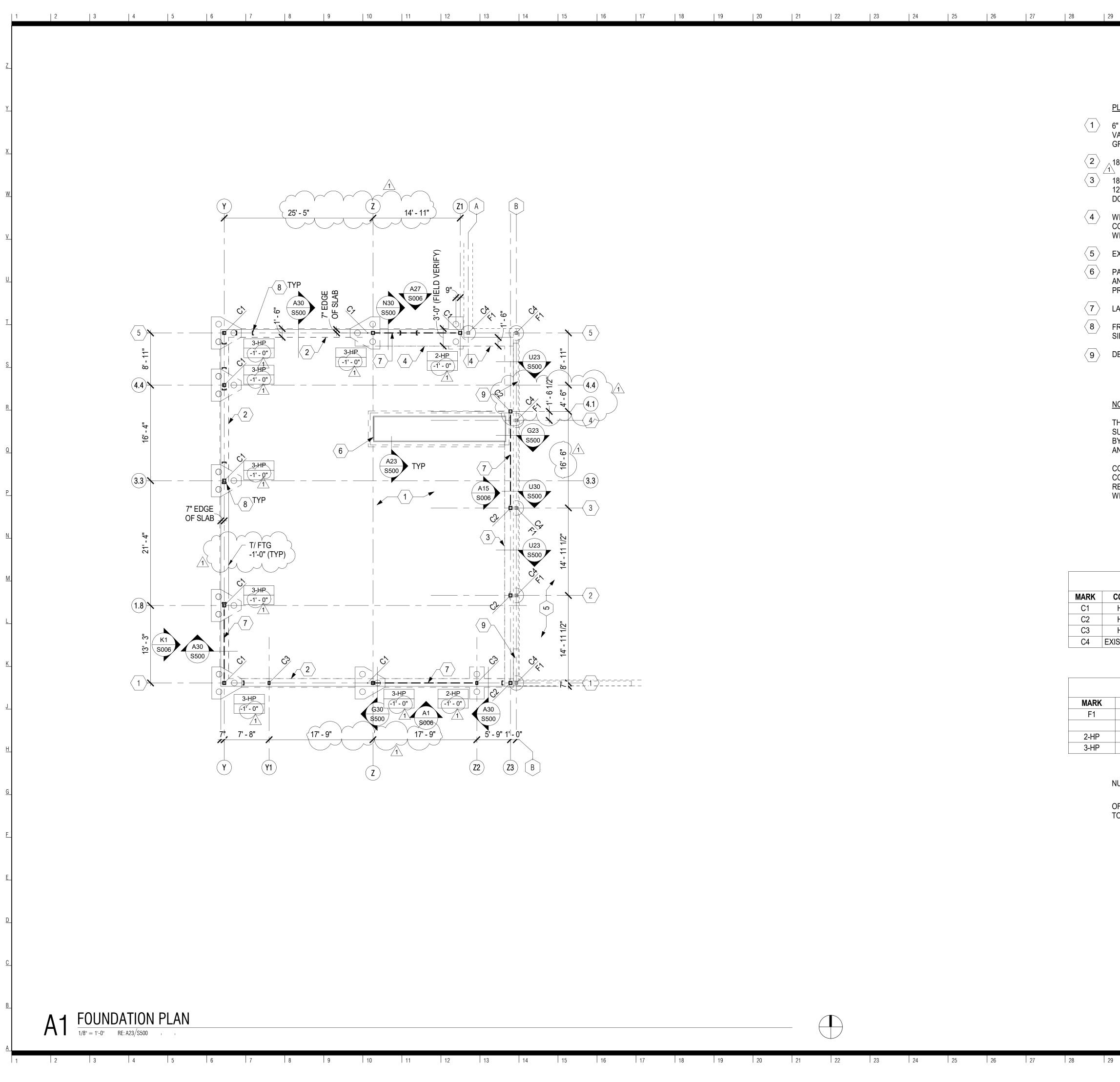
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	PLAN NOTES:
	 6" CONCRETE SLAB-ON-GRADE w/ #4 @ 12" OC EW CTRD IN SLAB ON 15 MIL VAPOR BARRIER ON 6" CLEAN GRAVEL FILL ON PROPERLY COMPACTED SUB-GRADE. T/CONC = 989'-2 5/8" +/- MATCH EXISTING, SLOPE PER ARCH
	2 18" x 32" CONT FOOTING w/ (3) #6 T&B AND #3 TIES @ 12" OC
	3 18" x 32" (MATCH EXISTING DEPTH) CONT FOOTING w/ (3) #6 T&B AND #3 TIES @ 12" OC. CONTINUE FOOTING OVER EXISTING PIERS AND PROVIDE (2) #6 x 3'-0" DOWELS AT EACH PIER. EPOXY GROUT 8" INTO EXISTING PIER.
	4WIDEN FOOTING TO 36" +/- AT GRID Z AND EXTEND TO EXISTING BUILDING, CONTINUING APPROXIMATELY 18" WIDE FOOTING TO GRID B. REINFORCE WIDENED FOOTING w/ (3) ADDITIONAL #6 T&B AND CONTINUE #3 TIES @ 12" OC
	5 EXISTING BUILDING
	AINT BOOTH PIT PER MANUFACTURER. PROVIDE CONTINUOUS LEDGE ANGLE AND SHIM PLATE PER DETAILS AS REQUIRED PER MANUFACTURER. PROVIDE 8" THICK BASE SLAB w/ #6 @ 12" OC EW
Charles and the second	7 LATERAL BRACING PER ELEVATIONS
	FRAME ALL DOORS AND WALL OPENINGS w/ C8X11.5 CHANNELS ON ALL SIDES. SEE ARCH AND MECHANICAL DRAWINGS FOR OPENINGS REQUIRED.
U23 \$500	9 DEMO EXISTING CURB PER ARCH
$ \begin{array}{c} & & & & & & & & & & & & & & & & & & &$	NOTES: THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE BASED ON SURVEYS MADE BY THE CONSULTANT(S) AS WELL AS MATERIAL PROVIDED BY THE OWNER AND NO CLAIM IS MADE TO ITS ABSOLUTE COMPLETENESS AND/OR ACCURACY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. CONTRACTOR SHALL REPORT AN INCONSISTENCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
	STRUCTURAL COLUMN SCHEDULE
$- \frac{1}{10}$	MARK COLUMN SIZE BASE PLATE ANCHOR BOLTS C1 HSS6x6x1/4 3/4" x 12" x 1'-0" (4) 3/4" DIA x 1'-6" EMBED
	C2 HSS6x6x1/4 3/4" x 10" x 1'-0" (4) 3/4" DIA x 1'-6" EMBED
11 1/2	C3 HSS6x4x1/4 3/4" x 10" x 1'-0" (4) 3/4" DIA x 1'-6" EMBED C4 EXISTING COLUMN
- 14 - 14	
	STRUCTURAL FOUNDATION SCHEDULE MARK FOOTING SIZE DEPTH REINFORCEMENT
	F1 EXISTING PIER FIELD VERIFY
	2-HP 2'-6" x 5'-6" (6) #5 EACH WAY, HOOK EACH END, T&B
B	3-HP 5'-2" x 5'-6" 2'-8" (6) #5 X 3 WAYS, HOOK EACH END, T&B
B	NUMBER OF PILES HP = HELICAL PILE (MINIMUM 9 KIP ALLOWABLE LOAD, UP OR DOWN AT EACH PILE)

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Development Services Departmen Lee's Summit, Missouri 12/30/2021

Civil Engineer

MEPF Engineer

OFFSET FROM TOP OF SLAB

R OF PILES -	HP = HELICAL PILE (MINIMUM 9 KIP ALLOWABLE
FROM	3-HP
SLAB	→ -1' - 0"
1'-3" MIN	DIA PILE
ALL SIDES	PILE CAP

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BNIM ArchitectsArchitect2460 East Pershing Road, Suite 100, Jackson County, Kansas City MO 64108p.816.783.1500f.816.783.1501MO State Certificate of Authority #00235006

KH Engineering GroupStructural Engineer13426 West 99th Street, Johnson County, Lenexa, KS 66215

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816-283-2456 Lankford Fendler +

Associates

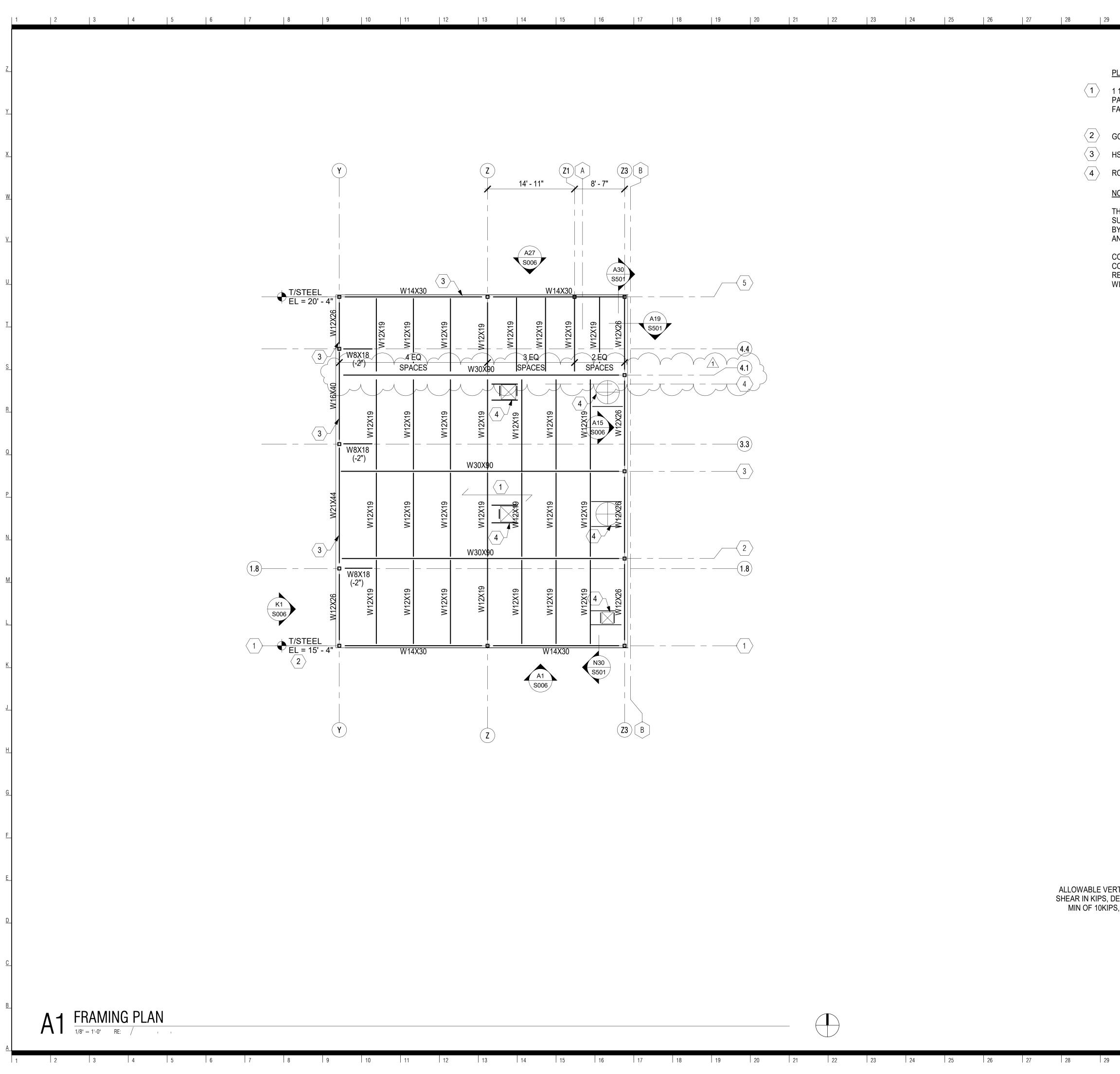
816-221-1411

MCC Longview HT **Addition/Renovation**

500 SW Longview Road Lee's Summit, MO 64081 Project No: 20008.00

Addendum #3

Issued: September 23, 2021 Rev. # Description Date Issued Addendum #3 10/25/21 1 Seal Kathleen J Hagen MO# E-2000155328 License Name: Berkebile Nelson Immenschuh McDowell Incorporated Profession Name: Architectural Corp. Licensee Number: 000377 FOUNDATION PLAN **S100**



ALLOWABLE VERTICAL SHEAR IN KIPS, DESIGN MIN OF 10KIPS, UNO

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PLAN NOTES:

1 1/2", 22 GAUGE WIDE RIB GALVANIZED ROOF DECK ATTACHED IN A 36/7 PATTERN w/ #12 TEK SCREWS AND (8) #10 TEK SCREWS FOR SIDE LAP FASTENERS. T/STEEL = SLOPE TO MATCH ARCH.

 $\langle 2 \rangle$ GC TO VERIFY TOP OF STEEL AND ADJUST TO MATCH EXIST PER ARCH.

HSS8X6X1/4 T/STEEL = 10' - 6" (8" HORIZONTAL)

 (4)
 ROOF PENETRATIONS PER ARCH & MECH. FRAME PER N29/S004

NOTES:

THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE BASED ON SURVEYS MADE BY THE CONSULTANT(S) AS WELL AS MATERIAL PROVIDED BY THE OWNER AND NO CLAIM IS MADE TO ITS ABSOLUTE COMPLETENESS AND/OR ACCURACY.

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. CONTRACTOR SHALL REPORT AN INCONSISTENCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

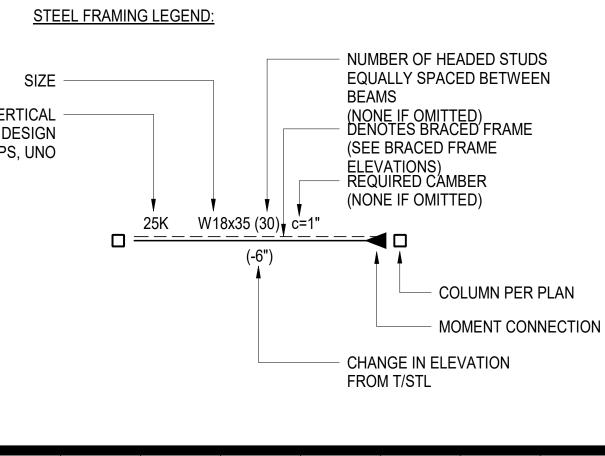
	Development Services Department Lee's Summit, Missouri 12/30/2021
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	FRAMING PLAN

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RELEASED FOR CONSTRUCTION As Noted on Plans Review



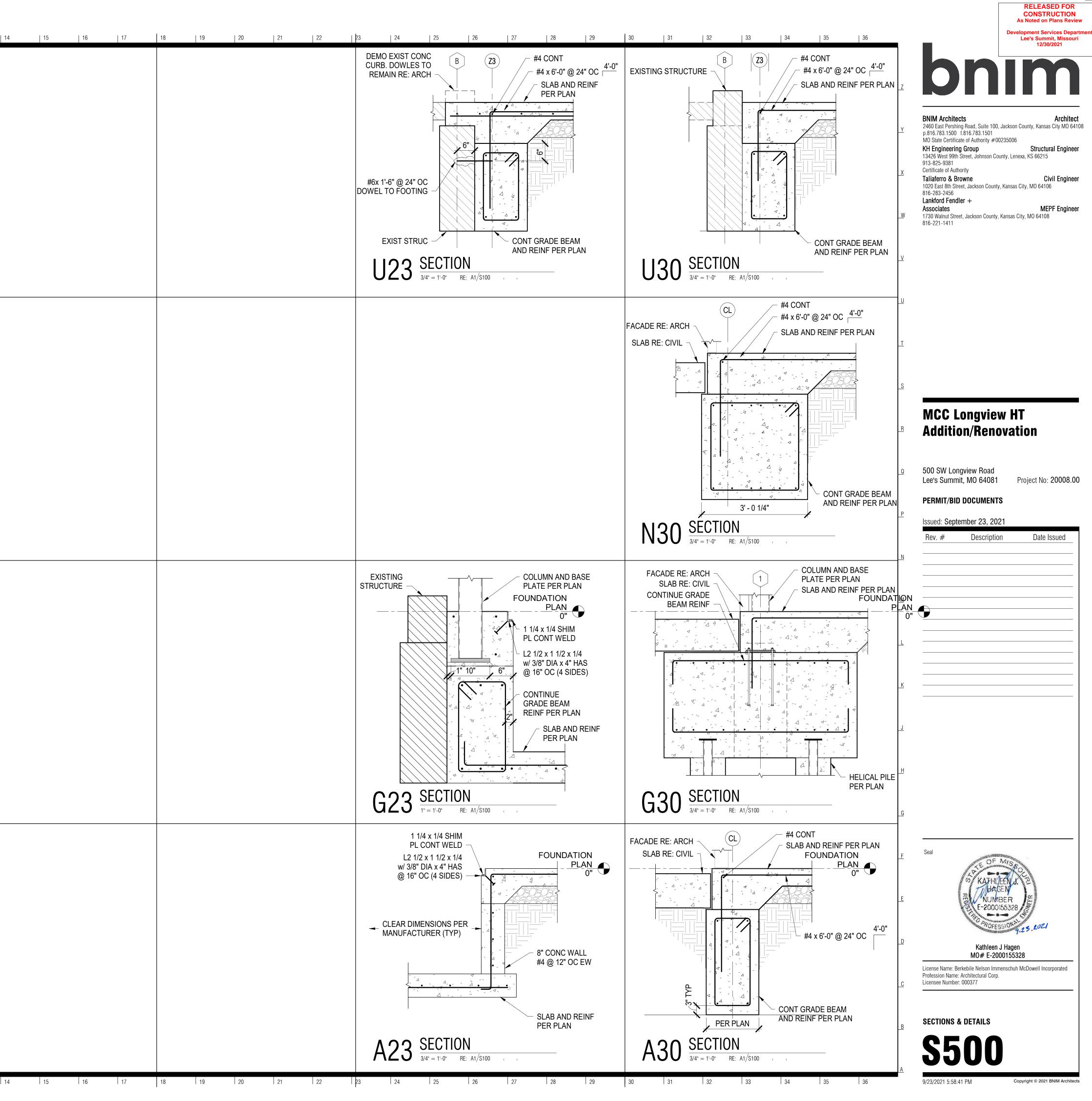
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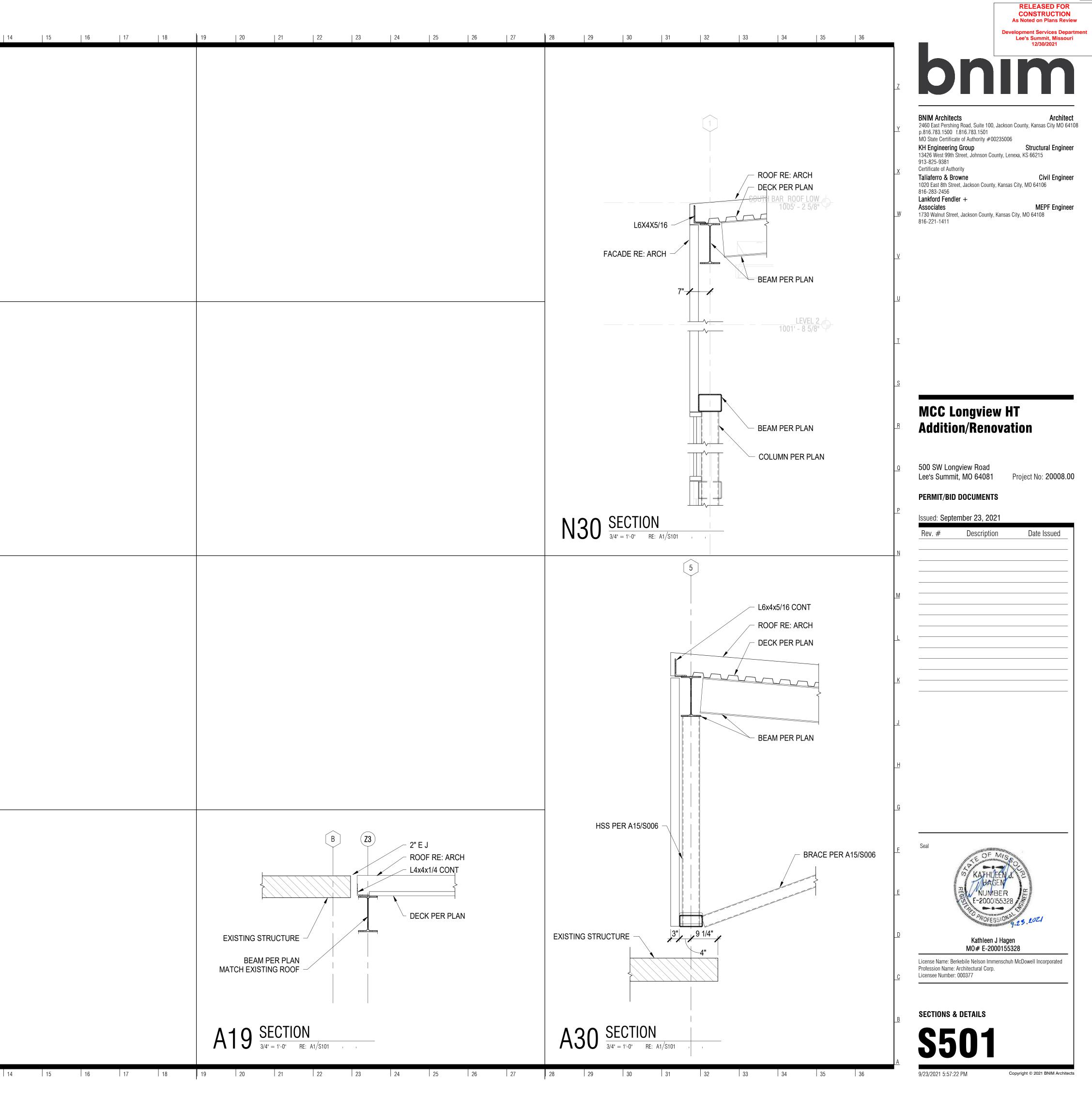
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										DIVISION	21, 22, 23	AND 26		
<u>Z</u>										GENER	AL PROVIS	IONS		
						1.0	DESCRIPT	ION:						
<u>Y</u>						А.	Divisions 2	1, 22, 23 and	d 26 shall be	e governed	d by all appl	icable provi	sions of the	Contra
X						В.	required for supply all n	actor shall fur r a complete ecessary lab ations assoc	and workir	ng installat ent, tools, i	ion. For all nsurance, a	systems sh nd tax servi	own and re ces, and sh	quired, all assu
						2.0	STANDARI	DS, REGUL	ATIONS AN	ID CODES	S:			
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<u> </u>						C.	-	ork in a nea ig work. Sub	-					
P						4.0	GUARANT	EES/WARR	ANTY:					
N						Α.	furnished u year from th	actor shall g nder this co ne date of the each section	ntract, agai e Owner's R	nst defects epresenta	s in materia tive Final Ac	ils and work	manship fo	or a mir
						5.0	WORKMAN	NSHIP:						
<u>M</u>						A.	to the satis	rformed unde faction of the ith respect to	e Owner's F	Representa	ative. The co	omplete inst		
						6.0		NDITIONS:						
L						Α.	installations utilities and	actor shall o s and all othe protect ther	er conditions n during the	which may e execution	y affect asso of the work	ociated work <.	. The Contr	actor sł
<u>K</u>						В.	to become will affect th	ctor shall ca familiar with ne installation	the type of n of this cor	constructio ntract.	on, materials	s, and equip	ment to be	used fo
<u>J</u>						C.	accepted site to determin	of submittin uch condition e existing co	ns, to have onditions wil	made allov I not be co	wance there	fore, and in	cluded all c	osts in
						7.0 A.	The Contra	ON DURING actor is resp during cons	oonsible for	r the insta		•		
<u>H</u>						В.	The Contra	all not comm ctor shall pr nd as necess	ovide, at his	s own expe	ense, all ter	nporary utili	ties require	ed to pro
G						0.0	permitted.		10					
						8.0 A.		EGULATION		pliance wit	th all applic	able govern	ing safety r	equlatio
<u>F</u>						9.0		. Provide sat		•	• •	-	0 ,	U
F						A.	The Contra	ctor shall be orderly man	•	e for keepii	ng stocks of	f material ar	id equipmei	nt store
<u> </u>						B.	The Contac	ctor shall cle I Conditions	an and maii	ntain their :	specific por	tions of the	work on a c	laily ba
D						C.		ctor shall rei		he premise	es all waste	material pro	esent as a r	esult of
						10.0	CONNECT	ION AND AL		N TO EXIS	TING SYST	EMS:		
<u>C</u>						Α.	due to conr	to the exist nection shall or what lengt	be kept to a	an absolute	e minimum.	The Owner		
В						В.	Provide all systems fur	temporary p nctioning.	piping and v	viring syste	ems require	ed during co	nstruction i	n ordei
2						C.		cutting and by the Contr	• •			•		
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	11.0	SUBSTITUTIONS:	17.0	MOTORS, CONTROL	S AND FIRE AI	_ARM INTERI	FACE:				
	A.	Materials, products and equipment described in the Bidding Documents established a standard of quality to be met by any proposed substitution.	A.	All motors furnished ur the loads involved. Al	I motors shall	conform to th	he standards	s of manu	facturer and		
	В.	Contractor's bids shall be based on the material identified or specified in the contract documents. Any proposals for substitution shall be made in writing to the Architect/Engineer with all supporting	B.	National Electrical Mar All motors 3/4 hp and				•		indicated. A	Any motor
ntract Document. atuses, and incidentals ed, the Contractor shall		documentation, allowing adequate time for appropriate action. The products of other manufacturers may be accepted, if in the opinion of the Architect/Engineer, the substitute material is of quality as good or better than the material specified, and will serve with equal efficiency and dependability the purpose for which the	C.	indicated for use with V Disconnects and moto	/ariable Freque r starters for eq	ency Drives (V Juipment shall	(FD) shall be be by the El	specificall	ly designed ontractor unl	for compatik ess furnishe	oility. ed integral
ssume full responsibility pocuments.	C	items specified were intended. The burden of proof of equality is entirely upon the proposer. Refer to Division 1 requirements for additional substitution procedures.		with the equipment or devices factory installe auxiliary contacts to ac	ed and shipped	with equipme	ent. Provide i	manual or	magnetic st		•
	D.	Wherever substitutions alter the design or space requirements, the Contractor shall be responsible for	D.	All temperature control						anical Cont	ractor.
s currently in force of all or other requirements code requirements, the		confirming all substituted equipment and materials fit within the allocated space while maintaining code required access and clearance. He shall include all associated cost items of the revised design and of construction work required by his or other trades affected by the proposed substitution.	E.	All fire alarm devices ir of the Electrical or Fire	ncluding duct sn	noke detector	and shut dov				
al codes, acceptable to Code shall apply to this	12.0	SHOP DRAWINGS AND PRODUCT DATA:	18.0	PIPING IN ELECTRIC	AL ROOMS:						
al departments affected	A.	The checking of shop drawings is a gratuitous assistance and in no way relieves the Contractor of responsibility for deviations from the Contract Documents. The Contractor shall submit project shop drawings electronically in PDF format, unless indicated otherwise.	A.	No piping except speci Server Rooms and IT 0 galvanized sheet meta	Closets. In room	s where piping	g is indicated	l over or ne	ear electrical		-
ch the project is located. applicable standards of	В.	Shop drawings and catalog data on all major items of equipment and apparatus, and such other illustrative materials as may be considered necessary by the Owner's Representative shall be submitted by the Contractor in adequate time to prevent delay and changes during construction.				END OF	SECTION				-
	C.	Refer to Architectural Documents for additional shop drawing submission procedures.									
Accessibility Guidelines.	13.0	PROJECT CLOSEOUT DOCUMENTATION									-
	Α.	Operating and Maintenance Brochure:									
of the various items of indicate every required required for a complete		1. On completion of the project, the Contractor shall provide project manuals electronically (PDF format unless otherwise instructed) containing complete product information for all installed or provided equipment and components including cut sheets, parts lists, wiring and installation diagrams, operating, service and lubrication instructions. Provide manufacturer guarantee and warranty certificates.									-
	В.	Record Drawings:									-
e representation of the k. Failure to do so shall		 On completion of the project, the Contractor shall provide record drawings with all field changes clearly and neatly noted. The original routing and layout shall be clearly marked out. References to other documents, drawings, addenda, RFI's or otherwise for additional information shall not be accepted. 									
ades involved, prior to ace or routing.		2. The Contractor shall submit record drawings electronically in PDF format (unless otherwise instructed).									-
	14.0	FOUNDATIONS AND SUPPORTS:									
aterials and equipment minimum period of one de extended warranties	A.	The Contractor shall provide concrete bases, hangers and foundations for all machinery and equipment specified or shown in this contract, including fans, air conditioning units, water heaters, pumps, motors, electrical gear, etc., unless specifically noted otherwise.									-
rance when completed, nction as designed and	B.	All hangers, brackets, clamps, etc., shall be of standard weight steel. Perforated strap hangers shall not be used in any work. When two (2) or more pipes or conduits are run parallel, or where ducts interfere with the proper location of hangers, they may be supported on trapeze hangers. Other hangers shall be hinged ring malleable iron, by Grinnell or Fee and Mason or approved equal with rods and hanger adjusters for adequate size to carry the loads imposed. All piping, ductwork and conduit systems shall each be independently supported from other systems and from equipment so that no weight is born by equipment.									-
cal conditions, existing r shall locate all existing	C.	The Contractor shall take all precautions against excessive noise or vibration by isolating the various items of equipment from the building structure. Provide flexible connectors where indicated and at all rotating equipment and for equipment mounted on vibration isolators.									_
in the second second if is a time.	15.0	CUTTING AND PATCHING:									
vings and specifications d for all work and how it	A.	All necessary cutting, drilling and patching shall be provided by this Contractor. Structural members shall not be disturbed without prior approval of the Structural Engineer and/or the Owner's Representative. All areas and surfaces disturbed by work performed under this Contract shall be neatly repaired and refinished to the condition of adjoining surfaces in a manner suitable to the Owner's Representative.									-
n examination, to have in his proposal. Failure ditional compensation.	16.0	SLEEVES AND ESCUTCHEONS:									
	Α.	Penetrations thru walls and floors shall be as detailed.									_
aintenance of all new	В.	Where not otherwise shown, penetrations shall conform to the following:									
leted project. Warranty native.		 Where pipes or conduits pass through interior partitions, galvanized steel pipe sleeves or galvanized steel sheet sleeves shall be used. Where pipes or conduits pass thru concrete floors and walls, walls below grade or exterior walls and slabs on grade, cast iron or steel pipe sleeves shall be used. 									-
g facilities is specifically	C.	Sleeves through interior non-rated walls, including walls indicated as sound partitions, shall be packed with fiberglass or mineral wool and caulked.									_
ations, including OSHA	D.	Sleeves in exterior walls or thru slabs on grade shall have lead and oakum or mechanical link seals, Thunder line or acceptable equivalent.									-
ored on the premises in	E.	Penetrations of fire rated construction shall be made with a UL listed fire penetration assembly suitable for the rating at each location. Where required, sleeves through fire rated structure shall be fire barrier caulked with putty strip or sheet by 3M, Hilti or acceptable equal.									
basis or as specified in	F.	Provide steel (dry locations) or brass (damp locations) escutcheons to completely cover pipe penetration holes in floors, walls, or ceilings. Provide pipe escutcheons with nickel or chrome finish for occupied areas, prime paint finish for unoccupied areas, brass for exterior.									-
t of his work.											-
act. System "downtime" ve shall judge if at what								ม	nkford +		endler
der to keep all existing								LUI	HALL HALL HALL HALL HALL HALL HALL HALL	sociates s	UIIUU
ated for access to work Contractor.								Kans	as City, Missouri OPYRIGHT © 2021 LAN L F+a Pr Alan W. Lankford - Mec	64108 Fax: 8	DCIATES, INC.
14 15 1	6	17 18 19 20 21 22 23 24 25 26	2	27 28 29	30	31	32	33	34	35	36



BNIM ArchitectsArchitect2460 East Pershing Road, Suite 100, Jackson County, Kansas City MO 64108p.816.783.1500f.816.783.1501MO State Certificate of Authority #00235006

KH Engineering Group Structural Engineer 13426 West 99th Street, Johnson County, Lenexa, KS 66215 913-825-9381 Certificate of Authority

 Taliaferro & Browne
 Civil E

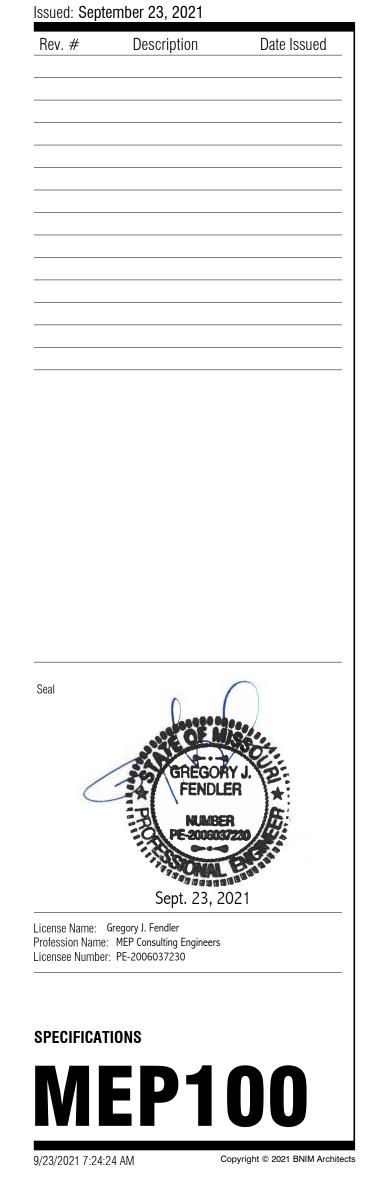
 1020 East 8th Street, Jackson County, Kansas City, MO 64106
 Civil Engineer 816-283-2456 Lankford Fendler +

Associates MEPF 1730 Walnut Street, Jackson County, Kansas City, MO 64108 816-221-1411 MEPF Engineer

MCC Longview HT **Addition/Renovation**

500 SW Longview Road Lee's Summit, MO 64081 Project No: 20008.00

PERMIT/BID DOCUMENTS



						230 100					4.0	DUCT S
				HEATIN	NG, VENTILA	ATION AND		DITIONING			Α.	Hangers
-	1.0	SCOPE	Ξ:									1. Due size
	А.									portation, services		2. All for
-		•		•			0.	0.		systems and othe anying drawings o		3. Pro sup
		as direo	cted by the A	Architect/En	gineer.							sup
	2.0	SHEET	METAL:									4. Up
	А.				0 0					RAE and SMACNA struction Standards		bra
		Manual	and industr	y standards	s. Provide rou	und or recta	ingular duc	t as indicate	ed.			adj
				•	•					ning vanes, offsets	4	equ
		fo		efficiency a	and to minim	•				and to provide for	к	Routing
					free area siz	e and do no	ot include li	ner.				1. Du coo
	В.	Fabrica	te for the pr	essure and	SMACNA se	eal class rec	quired by th	e applicatio	on.		5.0	
		Leakag	e class mini	mum require	ements are:						5.0	GRILLE
					– rectangular א 4" WG pres				ss 6 - round.		А.	All supp Commer
			ass minimur		-			J				1. All
				-	- class A for a	all duct joint	ts.					cha 2. Unl
		2. G	reater than 2	2", less than	א 4" WG pres	sure - class	s A for all d	uct joints.				par 3. A b
	C.	Duct Se	ealants									cor dar
					5/50 flame at shall be inst		•	•		f 10" WG, mold and	1	4. Cei elb
		2. Se		oncealed du	ctwork shall					sed joint and seam	ו B.	Louvers
		3. D	uctwork exp	bosed to vi	ew shall be					ed joints. Exposed nall have joints with		screen, Ventilatir
		El	PDM gaske	ts in groove	e, O-ring sea	als or flange	ed with nec	prene gasl	kets. Where	sealant beads are alant trimmed flush	e 0	HEATIN
		w	ith duct and	removed.	asketed duct				•		А.	Air cond
	D.	Duct Fi		anis anu ya		joints are ex	vempted in		ealant requir	ements.		products ASHRAE
	D.			ctwork shal	ll be manufac	cturer's star	ndard mill fi	nished			В.	Should a
	E.								sure class re	quired or indicated		the manual costs
	E.	Snap lo	ock duct and	l fittings sha	all be used fo	or low press	sure/velocit	y applicatio	ons only. Fitt	tings shall have 1.5 ss. Spiral duct shal	5	equipme plumbing
					by McGill Ai	•		y pressure/	velocity clas		1	alternate
		1. Si	ngle wall, 2.	0" WG mini	mum.						C.	Split Sys
	F.						•	•		lame plenum rated ends sealed. Attach		1. Spl
		with wo	orm gear driv	ven stainles		ls. Provide T	Thermaflex			supports. Supply ai		ma cor
		1. Fl	exible ducts	shall be Th	nermaflex or	acceptable	equal by A	TCO or Fle	xmaster.			and gua
	3.0	DUCTV	VORK ACC	ESSORIES	:							2. Spl cha
	A.	Provide	single thick	ness turning	g vanes in al	ll supply due	ct turns.					sup coil
	В.	Branch	take-offs to	air terminal	l units shall b	be high effic	iency type.					3. Spl
	C.						-	•		ffs or conical fittings		Provide u overload
					herwise on d wn otherwis					mper at take-offs ir		fan relay
	D.	Duct s	plits, elbow	s and redu	ıcing fittings	shall be f	fabricated	per SMAC	NA standa	rds. "Ductmate" o		Provide ι
		accepta	able equal fla	anged and g	gasketed joir	nt systems a	are approve	ed.			F.	Mount ur
	E.		•		and required	•	•			ble equal by Ruskin rtech.		FANS:
					pers shall be ampers shall			with AMCA	500D. The	y shall be opposed	d A.	Fans sha thermost
		a.	Manual (dampers sh	Iall have star	ndoff and loc	cking quad	rant.				Acme, C
		b.								oneumatic powered n to accomplish the	9	MISCEL
					d sequence o	•				· · · · · · · · · · · · · · · · · · ·	A.	Provide
										shall have extruded		1. E.⊦
					ues with auj	ustable coul		e weights.	Provide with	n vinyl blade seals.	9.0	FILTER
			amper Sche								Α.	Provide manufac
		а.	Greenhe	Damper Re ck MBD-15	-	I formed bla	ade, manua	al locking q	uadrant actu	uator, 4" WG, 2000)	filters, Fa be new a
		b.		Damper Ro							, 10.0	CONTR
			fpm.			ei tormed bl	iade, manu	ai locking c	quadrant act	uator, 1" WG, 2000) ^{10.0} B.	All temp
		C.	Greenhe			el single forr	med blade,	blade seal	s, 4" WG, 30	000 fpm, 4 CFM/SF		Controls
		d.		at 1" WG. ed Control D	amper Recta	angular:						and com
				ck VCD-43, at 1" WG.	, aluminum, a	airfoil blades	s, jamb and	blade seal	ls, 6" WG, 60	000 fpm, 3 CFM/SF	D.	Provide of controlle
			90									complete
											E.	Devices directed.
											F	All occur
											F. G.	All occup Integrate

14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
SUPPO	RTS AND F	ROUTING							11.0	PIPE	, FITTINGS ANI	D VALVE	ES:		
uctwork	upports. shall be su spacing.	pported in a	accordanc	e with all SN	IACNA sta	andards in	cluding sup	port methods,	Α.	Provid	de service valve de control valve oplication.		•	•	•
ll hange r corros	r and suppo ive or damp	environmer	nts.					stainless steel			de a union or fla is pipe connectio	•			
uppleme	entary steel,	etc. as req	uired for	proper suppo	ort of all d	luctwork. T	rapeze ma	e connectors, ay be used for olts and nuts,	C.	Refrig	jerant:				
neetmet	al screws o	r rivets comp	atible with	h duct materia	als.		-	clude concrete			Piping – ASTM compression or	•	•	•	
serts, w	vedge type		serts, ste	•	•	•		os, straps and			Brazing materia Valves Shut				
able sys	stems may b	be used at co	ontractor o	•		•	•	cluding cables, or acceptable		4. <i>1</i>	refrigerant servi All refrigerant requirements, ir permitted length	piping w ncluding l	but not limit	ted to comp	
g.										5. /	All refrigerant p capped. They s	iping sys [.]	tems shall	be eddy cu	
uctwork	shall be re	utod oc cho	wn on dr	owinge noro	llat ta buil	ding lines	unloss othe	onvico chovn			etandarde				

work shall be routed as shown on drawings, parallel to building lines unless otherwise shown, dinated with building structure and other trades. Adjust ductwork routing and elevations with essary offsets to accommodate beams and other obstructions.

REGISTERS, INLETS AND OUTLETS:

return and exhaust grilles, registers and diffusers shall be as scheduled on the drawings. ial quality – E.H. Price or acceptable equal by Titus, Carnes, Krueger or Nailor.

ir distribution devices shall be selected for throw and low noise (25 NC or less) performance acteristics unless otherwise indicated. ss otherwise indicated, louvered supply grilles shall be double deflection devices with front blades

llel to the long dimension. alancing damper shall be provided for each and every diffuser, register and grille where airflow

rol is required. Unless otherwise indicated, provide integral volume damper where a duct mounted per would not be accessible.

ng supply diffuser connection shall be made with hard elbow or flex duct with Thermaflex flex flow w support.

hall be Greenheck ESD-435, 4" deep AMCA certified extruded aluminum drainable blade with bird nish as noted on drawings or acceptable equal by Ruskin, Carnes, American Warming and g, Louvers and Dampers, Nailor.

AND AIR CONDITIONING UNITS:

ioning units shall be as scheduled or by acceptable equal. Units shall be standard catalogued with the appropriate approval or certification by AGA, ARI and UL. Efficiencies shall conform to 90 standards.

alternate manufacturer's equipment be provided that differs in size, weight or configuration from facturer listed as the basis of design, the contractor shall reimburse the architect and engineer for ssociated with modifying the construction documents to accommodate the alternate manufacturer's t. The contractor also shall be responsible for all costs associated with modification to electrical, mechanical and structural systems from the original construction documents to accommodate equipment.

em Units:

system outdoor unit shall be of characteristics and capacities as scheduled, and shall have ufacturer's standard compressors with crankcase heaters, vibration isolators and five (5) year pressor warranty. Accessories shall include suction line accumulators, service valves, sight glass strainer-dryer, heat pump reversing valve and controls, refrigerant line set, condenser coil hail ds, condenser coil cottonwood filters as required for a complete operating system. system indoor units shall be horizontal configuration, with cooling and/or heating components of acteristics and capacities scheduled. Units shall have direct or belt drive, forward curve or airfoil bly fan, cooling coil with copper tubes and aluminum fins, insulated coil drain pan, hot water heating Provide with filters, controls, mounting hardware and duct flex connectors. system units shall be Carrier or acceptable equal by Trane, York, Lennox, Daikin.

nits with manufacturer's standard control package. Controls to include factory wired terminals with devices and transformers as required. Unit safety control to include high-low pressure switches, , short cycle safety and internal pressure relief, gas controls with hi limit and anti- cycle protection.

nit accessories as noted on drawings and as required for a complete operating system.

ts to provide the required service, access and airflow space.

I be as scheduled with all required accessories including vibration isolators, hangers, rate of rise ts, etc. Commercial quality fans shall be AMCA rated by Greenheck or acceptable equal by Cook, 13.0 INSULATION: rnes, Penn Barry. Circulation fans shall be by Big Ass Fan, Kelley or acceptable equal.

ANEOUS MECHANICAL EQUIPMENT:

onstant, variable volume fan powered boxes and accessories as scheduled.

Price, Titus, Carnes, Enviro-Tec, Krueger, Nailor, Trane or acceptable equal.

Iters in air intake to each units A/C system with size and number of filters standard with air unit urer. Provide 1" and/or 2" thick to suit equipment requirements, hi-velocity, throw-a-way MERV 8 r 30/30 or acceptable equal by American Air Filter, Airguard, Air Filters, Inc., Purolator. Filters shall nd clean at time of Owner's acceptance. Supply extra set of filters for each unit.

LS AND LOW VOLTAGE SYSTEMS:

rature controls unless otherwise noted shall be the responsibility of the Mechanical Contractor.

system shall be pneumatic and direct digital (DDC) by Automated Logic. Controls shall be interfaced atible with the existing building energy management control system.

ontrol installation to accomplish the existing sequence of operation including thermostats/ sensors, s, actuators, wiring, piping and tubing, software, graphics and other components as required for a operating system.

xposed to view and mounted in finished spaces shall be white in color unless otherwise noted or

ant adjustable devices shall be mounted in accordance with ADA and ADAAG requirements.

new digital devices including temperature sensors, humidistats and other sensors and controllers kisting energy management system.

- standards.
- 6. All systems shall be leak tested prior to insulation insta be certified leak free with report provided to the engin system leaks including system evacuation and recharge

D. Heating Hot Water:

1. Piping –

- a. All sizes Schedule 40 black steel, malleable iror
- 2. Valves.
- a. Service -
- 1) $2^{\circ} 2^{\circ}$, Nibco 585-70 full port ball, bronze
- b. Balance- Bell & Gossett circuit setter "RF".
- Provide dielectric fittings at joints of dissimilar metals.
- 4. Provide valve with stem extensions on all insulate thickness.
- 12.0 PIPE SUPPORTS AND ROUTING:
- A. Hangers and Supports.
- 1. Piping shall be supported in accordance with industry spacing. All supports shall conform to MSS SP58 and
- 2. Pipe Slopes: Install hangers and supports to provide drainage and venting Deflection: Maximum pipe deflections and stresses as
- 4. Each piping system shall be independently supported such that no weight of piping is borne by the equipmer
- 5. Space hangers and supports within maximum piping building attachments at required locations for proper
- 6. Provide adjustable hangers, inserts, brackets, rolls, cl connectors, supplementary steel, etc., as required for used for support of multiple pipes. Provide accom sheetmetal screws or rivets suitable for application.
- 7. Provide copper plated, plastic coated or felt lined har abrasion on copper or plastic piping systems. 8. Upper attachments shall be manufactured items spec
- inserts, wedge type drilled in inserts, steel beam ar brackets as required by the application.
- 9. Hangers shall be designed to allow for expansion and c size to permit covering when required. Provide prote insulated piping to prevent crushing insulation.
- 10. All hanger and support parts shall be galvanized steel f for corrosive or damp environments.
- 11. Cable systems may be used at contractor option. They adjustable locking fasteners or clips and all upper an equal.

B. Routing.

1. Piping shall be routed as shown on drawings, para coordinated with building structure and other trades necessary pipe offsets or changes in elevation to acco

B. Ductwork

C. Piping

- 1. Duct Liner
 - a. Line low velocity rectangular sheetmetal supply Powered boxes, and exhaust ducts with mat face microbial coating. Apply with mastic and pins with
 - 1) Ducts in conditioned space or plenums utili 2) Exhaust ducts conveying environmental air
- 1. Pipe insulation shall conform to the International Energy 2. Pipe insulation shall run continuously thru hangers and preserved.
- 3. Refrigerant suction and hot gas: Insulate with Aeroce 25/50 flame and smoke rating. Do not split. Adhere I shall run continuously thru hangers or supports.
- Interior 1" thick for all pipe sizes. a. b. Exterior – 2" thick for all pipe sizes.
- 4. Heating hot water piping (up to 200F): Insulate wit reinforced scrim (ASJ). Install PVC fitting covers on all
 - a. Interior 1-1/2" (pipe sizes up thru 1-1/4"), 2" (pi

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29	30	31	32	33	34	35	36	
· · •	and elsewh other valve			-				
	pment and			-				<u>Z</u>
l be rated	wrought co d for 700 PS alloy or acce	G at 170F		flared				Y
ses, exp be in	strict acco	i solenoid rdance wit	valves rate h manufac	turer's				
ested, n	ping slopes itrogen purg ordance with	ged during	brazing and	d ends				W
	and prior to r ontractor is	•						V
n fittings	with thread	ed or flange	ed joints for	oiping.				U
								T
with chro	ome plated l	oall'.						S
ed pipin	g systems	to accomn	nodate insi	ulation				R
l Fed Sp	ds including ec WW-H-1 ed or require	71E and A-	A-1192A.					Q
	d by ANSI B piping bea			stalled				P
piping su clamps, o proper s	length india ipport. channels, ro support of a attachmen	ods, guides Il pipe lines	, anchors, f . Trapeze n	lexible nay be				N
angers w	/here requir	ed to preve	ent electroly	/sis or				M
	ne applicabl clamps, pla							
	ion of pipe li saddles and			•				L
	corrosive er							
•	e a complet r attachmer	•	•					K
s. Adjus	building line st pipe rout ste beams a	ing and dr	op location					J
								Н
ed 3 lb. c	ork includin density fiber on protectior	glass or tex	tile liner wit	h anti-				G
	return air –1 5' of roof ter							F
	ervation Cc ts with all joi		and vapor b	arriers				E
	exible elasto Its with app							<u>D</u>
rith fiberg Il fittings	glass with a	all service	paper jacke	et with	Lankford		Fendler	<u> </u>
ipe sizes	s 1-1/2" and	above).			+	associates		B
						LANKFORD FENDLER+A		
						<i>a Project No. 21.6807</i> - Mechanical Engineer - MO COA #2006001168		

	Lee's Summit, Missou 12/30/2021
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Issued: September 23, 202 Rev. # Description	
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Rev. # Description	
Rev. # Description	
Rev. # Description	
Rev. # Description	Date Issued

RELEASED FOR

14.0	FOUNDATIONS AND VIBRATION ISOLATION:	220 100	4.0 PIPE SUPPORTS AND ROUTING:
А.	Foundations: Provide fabricated supports for all equipment. Mount on 4" concrete housekeeping pads where indicated.	PLUMBING	A. Hangers and Supports.
В.	Provide flexible connections at all motor driven equipment, where shown and where required to hold transmitted noise and vibration to an acceptable minimum at piping and duct connections.	1.0 SCOPE:A. The work included under this contract consists of providing all labor, materials, tools, transportation, services,	 Piping shall be supported in accordance with industry standards including support method spacing. All supports and installation shall conform to MSS SP58 and 69 and Fed Spec V and A-A-1192A.
C.	Duct flexible connection shall be Durodyne non-combustible, 22 ounce (minimum) polymer coated woven fabric or acceptable equal.	etc., necessary to complete the installation and to provide complete working systems of the Plumbing Systems, including hot and cold water, waste and vent, storm drainage, fixtures, equipment and other items described in these specifications, as illustrated in the accompanying drawings or as directed by the	 Pipe Slopes: Install hangers and supports to provide indicated or required pipe slopes to drainage and venting
D.	Equipment Vibration Isolation: All motor driven equipment shall be furnished with isolating mountings. Motors shall be mounted on resilient bases, spring or rubber supports as recommended by the manufacturer.	 B. Extend piping systems as indicated on contract documents or to point of connection as follows: 	 4. Each piping system shall be independently supported with no piping bearing on another a such that no weight of piping is borne by the equipment. 5. Space hangers and supports within maximum piping span length indicated in MSS S
15.0	Isolators shall be Amber Booth or acceptable equal by Kinetics, Mason Industries, Vibration Eliminator Co.	 Points of connection within the existing building. 	building attachments at required locations for proper piping support.6. Provide adjustable hangers, inserts, brackets, rolls, clamps, channels, rods, guides, anch
	Flash all pipes and vents extending through roof. Flashing details shall be in accordance with roof	 A. Natural Gas 1. Pipe above ground: 	connectors, supplementary steel, etc., as required for proper support of all pipe lines. Trap used for support of multiple pipes. Provide accompanying attachments including bolt sheetmetal screws or rivets suitable for application.
	manufacturer's requirements.	 a. 2" and smaller – Schedule 40 black steel piping with threaded fittings. b. 2-1/2" and larger – Schedule 40 black steel piping with welded fittings. 	 Provide copper plated, plastic coated or felt lined hangers where required to prevent eleabrasion on copper or plastic piping systems. Upper attachments shall be manufactured items specific to the applicable structure. Inclu
В.	Provide sleeves where piping penetrations are required thru partitions or concrete floors. Where penetrations are through fire rated assemblies, sleeves shall be fire stopped in accordance with UL listing requirements. Sleeves shall be galvanized steel pipe, sheet steel or cast iron. Sleeves are not required for core drilled	 2. Valves & Connectors: 	inserts, wedge type drilled in inserts, steel beam and joist clamps, plates, rods, clips, brackets as required by the application.
	penetrations of existing concrete slabs above grade. Penetrations of below grade structures and slabs on grade shall be water proofed with mechanical link seal system, Thunder Line or acceptable equivalent.	a. Shutoff Service –	 Hangers shall be designed to allow for expansion and contraction of pipe lines and shall be size to permit covering when required. Provide protective saddles and blocking where insulated piping to prevent crushing insulation.
C.	Provide escutcheons at all penetrations of exposed walls and ceilings. Escutcheons shall be chrome plated brass in occupied areas, prime paint finish for unoccupied areas unless otherwise noted. Escutcheons for exterior or moist areas shall be brass.	 1/2" thru 1" – Nibco GB-1A, brass body, chrome plated brass ball, PTFE seats, screwed ends, 5 PSIG per CGA, lever handle. 1/2" thru 2" – Nordstrom 142, iron lubricated tapered plug valve, 200 PSIG, threaded ends. 2" thru 5" – Nordstrum 143, iron lubricated tapered plug valve, 200 PSIG, flanged ends. 	 All hanger and support parts shall be galvanized steel for non-corrosive environments or stafor corrosive or damp environments. Cable systems may be used at contractor option. They shall be a complete assembly inclu adjustable locking fasteners or clips and all upper and lower attachments by Gripple or
D.	Plastic piping without UV inhibiters which is exposed to UV radiation from sunlight shall be protected by coating with a UV resistant paint.	b. Connections to each piece of equipment or appliances shall be made with gas cock, dirt leg and union. Appliance connections may be made with UL listed appliance connectors with union ends.	equal.
	EQUIPMENT AND PIPE LABELS:	c. Flex Connectors, Metraflex GASCT 300 series stainless steel braided hose with carbon steel threaded ends.	1. Piping shall be routed as shown on drawings, parallel to building lines unless other
А.	Equipment labels shall be provided for all mechanical equipment and shall be self adhesive engraved plastic, blue with white lettering, sized, minimum 1-1/2" high, and located for viewing from ground or floor level. Label shall indicate drawing designation or unique equipment number.	B. Sanitary sewer, vent, interior	coordinated with building structure and other trades. Adjust pipe routing and drop loon necessary pipe offsets or changes in elevation to accommodate beams and other obstruct
	MISCELLANEOUS	 Pipe – Standard weight cast iron hubless with no-hub shielded mechanical joints; solid wall schedule 40 PVC, ABS with solvent cement joints; vents may be galvanized malleable iron. Plastic piping shall not be allowed in return air plenums. 	5.0 PROTECTION OF WORK A. Protection
Α.	Provide escutcheons at all piping penetrations of finished wall, floor or ceiling construction. Escutcheons shall be chrome plated brass in occupied areas, prime paint finish for unoccupied areas unless otherwise noted. Escutcheons for exterior or moist areas shall be brass.	 Floor or equipment drains shall be provided at all locations where equipment is indirect wasted. Floor drains shall be provided outside all ADA showers for roll-in applications or where there is no threshold. All gravity drainage shall be graded per code but not less than 1/4" per foot unless noted otherwise. 	 Protect and cover piping and fixture waste and water openings to prevent entry of dirt and Cover and protect fixtures and plumbing equipment to prevent damage.
	CLEANING:	 Vents shall be sloped upward in direction of flow. C. Sanitary sewer, vent, below grade 	6.0 TEST, ADJUSTMENTS AND CLEANING:
Α.	Renovation and Existing Systems 1. Clean existing duct systems by vacuuming inside ducts where accessible at each diffuser or grille or	 Pipe – Standard weight cast iron hubless with no-hub mechanical joint fittings; solid wall schedule 40 PVC, ABS with solvent cement joints. 	A. Soil, waste and vent piping testing:1. Initial Piping Water Test: Fill with water to the top of the highest point of the system extended
	air unit location. Remove and replace devices as required for best access.	 All gravity drainage shall be graded per code but not less than 1/4" per foot unless noted otherwise. Vents below grade shall be 2" minimum size and shall be sloped up in direction of flow. 	roof. Systems may be tested in whole or part. The system shall remain leak free und minimum period of Fifteen (15) minutes.
B. 19.0	All cleaning shall be completed prior to test and balance work. TESTING AND ADJUSTING:	D. Specialty Systems	a. Gravity Drain Test: Either 10' water column or at a pressure not less than 10% above th will be subjected to during nominal operation b. Pressure Piping Test: Either 25 PSIG or at a pressure not less than 10% above that th
А.	Contractor shall obtain the services of an independent test and balance agency and shall operate and test the air conditioning and ventilation systems and instruct the Owner in its operation. Perform a series of	1. Compressed Air –	 b. Pressure Piping Test: Either 25 PSIG or at a pressure not less than 10% above that the subjected to during nominal operation. c. Where applicable, isolate new portions of the system(s) piping with test tee and Oatey inflate has a pressure of the system.
	general capacity and operating tests. The tests shall demonstrate the specified capacities of various pieces of equipment.	a. Pipe above ground:1) Schedule 40 black steel with threaded or welded fittings.	inflatable plug prior to testing.2. Final Piping Test: The completed system(s) shall be visually inspected to determine com
B.	The entire temperature controls systems shall be adjusted and balanced and put in operating condition to cause the equipment to maintain the temperatures in accordance with the intent of these specifications. Operate and test equipment during summer and winter seasonal startup under this contract.	 2) Valves, service – 1/2" – 2" Nibco T 585-70, 1/4 turn, 600 PSIG, full port, stainless steel ball and stem. 3) Outlets – Terminate with 1/2" male pipe thread and furnish with air valve rated for 	all codes and standards. Where required by the building official, the completed system sha tested with all traps water filled and system pressured to 1" WC for a minimum period of minutes.
C.	The test and balance contractor shall perform an initial test and balance noting any mechanical system	compressed air, chrome angle stop, 3/8" compression fitting.	B. Gas and compressed air line testing:
	repairs and modifications necessary to achieve the design performance established by the contract	2.0 CLEANOUTS, TEST TEES, TRAPS AND TRAP SEALS:	1. Natural gas lines shall be inspected and blown out with dry compressed air or nitrogen to pur and tested at 1-1/2 times the operating pressure or a minimum of 25 PSIG pressure with no
	document prior to the final reporting. The final test and balance report shall incorporate results of all mechanical system modifications.	A. Provide cleanout at the base of each stack or riser, at ends of runs greater than 100', each 135 degree aggregate change of direction in horizontal piping, where indicated on the drawings or as required by code. Plugs, extra heavy cast brass, screwed. Scoriated tops in unfinished areas. Cleanouts same size as pipe up to 4" diameter, 4" cleanouts for larger pipe unless otherwise noted.	the International Fuel Gas Code.
	Test pressure piping system to 1-1/2 times the operating pressure but not less than 50 PSIG for a period of 2 hours with no observable pressure drop.	B. All traps shall be deep seal type with liquid seal not less than specified by code.	no measurable pressure drop. 3. Where applicable, isolate new portions of pressure piping from existing piping with valves pri
E.	Submit the complete test and balance report for review to the Architect/Engineer in triplicate. Test procedure and report shall conform to NEBB or AABC standards. The report shall be signed by the responsible individual.	3.0 SLEEVES AND SEALS, FLASHINGS, ROOF PIPE SUPPORTS AND UV PROTECTION:	 For renovation projects, isolate and protect fixtures, valves and equipment from over pr during testing.
F.	Provide test and balance service by one of the following approved test and balance agencies:	A. Flash all pipes and vents extending through roof. Flashing details shall be in accordance with roof manufacturer's requirements.	 C. Contractor to submit all test data and other documentation for record. 7.0 PLUMBING FIXTURES:
	 AccuTec Services, Inc. Chad Flynn 816.215.3567 Doyle Field Services: Tom Doyle 913.677.3374 National TAB: Dan Hortopatain 816.221 8575 	B. Provide sleeves where piping penetrations are required thru partitions, concrete floors, or concrete slabs.C. Plastic piping without UV inhibiters which is exposed to UV radiation from sunlight shall be protected by	A. Refer to plumbing fixture schedule for plumbing fixtures and accessories. Include all fittings and
	 National TAB: Dan Hertenstein 816.221.8575 Pro Balance: Duke Yocum 816.228.7800 Sys-Tek: Dan Krebs 816.229.9009. 	coating with a UV resistant paint.	as required for a complete working system. 8.0 FIXTURE AND ACCESSORY MANUFACTURERS:
	END OF SECTION		A. Fixtures, equipment and accessories are specified by manufacturer's numbers as to the type required.
			B. Specified manufacturers and approved equal manufacturers are as follows:
			FIXTURE, ITEM OR EQUIPMENTAPPROVED EQUAL MANUFACTURERSDrains and Drainage ProductsJ R Smith, Wade, Watts, Zurn, Josam
			END OF SECTION
			+ dSSUCIdL 1730 Walnut Street <u>Kansas City, Missouri 64108</u> COPYRIGHT © 2021 LANKFORD FENDLEI
			$\frac{L}{F+a} \frac{Project No. 21}{Project No. 21}$ Alan W. Lankford - Mechanical Engineer COA #2006001168

)	30	31	32	33	34	35	36

hods, sizes and ec WW-H-171E

s to provide for

ceeded. r and installed

SP-58. Install

nchors, flexible rapeze may be polts and nuts,

electrolysis or

nclude concrete ips, straps and

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and debris.

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compliance with shall be smoke d of fifteen (15)

purge of debris no measurable h NFPA 54 and

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prior to testing. ^r pressurization

and accessories

ype and quality



RELEASED FOR CONSTRUCTION As Noted on Plans Review

Development Services Department Lee's Summit, Missouri 12/30/2021

BNIM ArchitectsArchitect2460 East Pershing Road, Suite 100, Jackson County, Kansas City MO 64108 p.816.783.1500 f.816.783.1501 MO State Certificate of Authority #00235006

KH Engineering GroupStructural Engineer13426 West 99th Street, Johnson County, Lenexa, KS 66215 913-825-9381

Certificate of Authority Taliaferro & Browne

Civil Engineer 1020 East 8th Street, Jackson County, Kansas City, MO 64106 816-283-2456 Lankford Fendler +

MEPF Engineer Associates 1730 Walnut Street, Jackson County, Kansas City, MO 64108 816-221-1411

MCC Longview HT **Addition/Renovation**

500 SW Longview Road Lee's Summit, MO 64081 Project No: 20008.00

PERMIT/BID DOCUMENTS

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ofession Name:	Gregory J. Fendler MEP Consulting Engineers	NY J. D R D21
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	1 2 3 4 5 6 7 8 9 10 11 12	13	14
	260 100	5.0	SPLICE A
Z	ELECTRICAL 1.0 SCOPE:	A.	Make
_	A. The work included under this contract consists of the furnishing of all labor, materials, tools,	6.0	CABINET
	transportation, services, etc., necessary to complete the installation of the electrical systems and other items herein listed, all as directed by the Architect or Engineer, which work is comprised of, but not		Flush require
Y	limited to the following principal items:	7.0	OUTLET
	1. Electrical system for light and power:	A.	Gener termin
X	a. Electrical system revisions.b. Panel boards.		condit
	c. Systems of conduit, conductors, and boxes.d. Receptacles and wiring devices.		ferrou
W	e. Lighting fixtures and lamps.f. Power service to the various motors.		with a hung.
	g. Complete lighting and power systems.h. All systems, wiring and conduit as required.		outlet
	 Control wiring and electrical installation and connections for items in other contracts as may be listed in the drawings. 	8.0	PANELB
V	 Empty conduit and boxes for future installation of telephone wiring and miscellaneous systems. Rough-in and final connection to equipment furnished by others. 	A.	Panel Provid
	5. All cable ties for low voltage cable systems located in plenums utilized for air movement that are not installed in conduit shall be 25/50 flame and smoke rated, Hellermann Tyton T50R2C2UL or		All cire existin shall b
U	equivalent.		D, Sie Panell
	B. Raceway wiring systems shall be concealed in all finished parts of the building, where possible. Where the raceways are exposed, they shall be run parallel with the building walls in a neat and workmanlike manner. Should it appear necessary to expose any conduit or wiring in finished spaces, it shall be	9.0	
T	brought to the Architect's attention immediately and this Contractor shall rearrange associated work as directed to facilitate an approved installation. Contractor to coordinate with mechanical trades to avoid	10.0	DISCON
	ductwork and piping.	A.	Heavy with n
S	C. Contractor is responsible to provide liaison with owner for low voltage cable installation.		sched
	2.0 RACEWAYS:	11.0	MOTOR
R	A. All electrical conductors are to be installed in metal raceways, unless specifically specified or noted otherwise. Galvanized steel or intermediate steel conduit as permitted by code. No conduit smaller than		This C and as
<u>n</u>	3/4" to be used. compression type fittings. Provide flexible conduit connection for final connection to each motor not to exceed 3' in length and recessed lighting fixtures not to exceed 6' in length. Provide pull wires in all empty conduit evolutions and recessed lighting fixed and the evolution of a context of a c	12.0	LABELIN
	wires in all empty conduit systems. Identify terminus of each pull wire. All exposed raceways shall be installed with runs parallel and/or perpendicular with building walls. Fasten all rigid/non-flexible conduit every 8' and 2' from each box. Conduit shall be EMT where not subject to mechanical damage as		Contra numbe
Q	permitted by National Electric Code (N.E.C.). EMT connectors and couplings 4" and smaller shall be compression type. Type MC Cable is not permitted, except to use for fixture whips.		Outlet
	B. Conduit bushings shall be provided and installed inside all disconnects, pull boxes, panelboards,		equiva circuit
Р	switchboard or similar type equipment and where permitted by National Electric Code (N.E.C.).	C.	
	3.0 WIRES AND CABLES:	D.	white Exterio
N	 A. Electrical conductors, soft annealed copper with conductivity 98% of that of pure, stranded copper, 90 degree - 600V insulation and equal to General Cable Company. Wire and cable for all feeders, subfeeders, motor circuits and high ambient location type shall be THHN. All other branch circuit wiring 	D.	screw
	shall be type XHHN or THHN. Minimum wire size shall be #12 gauge AWG. Control wiring may be #14 gauge.	13.0	WIRING I
M	B. For conductors #4 or small use the following color-code:	A.	Duple: 5352-2
	 208Y/120V, 1-phase: black, red, white. 		Numb device
	 208Y/120V, 3-phase: black, red, blue, white. 480Y/277V, 3-phase: brown, orange, yellow, gray. 		will be before
L	 Green shall be used for ground wire conductor. Contractor shall use the following color designations and be consistent throughout the project. 	В.	Motior
	Color designation for switch legs and or travelers: Violet, Pink or Purple may be used.	14.0	LIGHTING
K	C. For conductors larger than #4, Field-Applied, Color-Coding Conductor Tape can be applied in half-lapped turns for a minimum distance of 6 inches from terminal points and in boxes where splices or taps are	A.	This C and e
	made. Apply last two turns of tape with no tension to prevent possible unwinding. Locate bands to avoid obscuring factory cable markings. When using black insulated conductors, contractor shall color-code		fixture suspe
J	conductor inside all pullbox or similar type enclosures. D. Conductor Material Applications:	15.0	
	a. Feeders: Copper; solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.	15.0 A.	FIRE ALA
	b. Feeders: Copper for feeders smaller than No. 4 AWG; copper or aluminum for feeders No. 4 AWG	7	coordi contra
<u>H</u>	and larger. Conductors shall be solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.		respor associ
	c. Branch Circuits: Copper. Solid for No. 12 AWG and smaller; stranded for No. 10 AWG and larger.		archite
G	d. Power-Limited Fire Alarm and Control: Solid for No. 12 AWG and smaller.	В.	Contra
	E. Conductor insulation and multi-conductor cable application and wiring methods:		
F	a. Exposed Feeders: Type THHN, single conductors in raceway.		
	 b. Feeders Concealed in Ceilings, Walls, Partitions, and Crawlspaces: Type THHN, single conductors in raceway. 		
E	c. Feeders Concealed below Slabs-on-Grade, and Underground: Type THWN-2, single conductors in raceway.		
	d. Feeders Concealed in Concrete: Type THHN, single conductors in raceway.		
	e. Exposed Branch Circuits, Including in Crawlspaces: Type THHN, single conductors in raceway.		
D	f. Branch Circuits Concealed in Ceilings, Walls, and Partitions: Type THHN, single conductors in raceway.		
С	g. Branch Circuits Concealed in Concrete, below Slabs-on-Grade, and Underground: Type THWN-2,		
	single conductors in raceway. 4.0 GROUNDING:		
В	A. Ground all electrical apparatus in accordance with N.E.C. and as specified herein. Provide a separate		
	grounding conductor for all lighting, receptacle and equipment circuits. All cabinets, switchboards, equipment cases, motor frames, interior metal cold water piping systems, and system neutral conductors shall be effectively grounded. Use solderless pressure type connectors, no perforated strap connectors will be allowed. Ensure continuous bond where flexible conduit is used. Provide bonding jumper inside all flexible conduit. Grounding per N.E.C. 250, and any local requirements.		
A	1 2 3 4 5 6 7 8 9 10 11 12	13	14

14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
E AND	TAPS:													210 10	0
ke splice	es at juncti	on boxes, p	oull boxes, c	or outlet boy	xes only.				1.0	SCOF	E:			RE PROTE	CHON
IETS, JL		AND PULL	BOXES:						A.	Fire pro	tection shal	l be govern	ed by all ap	plicable pro	ovisions o
			ndicated on old gauge s	•			vn on draw	ings and wh	ere B.	Provide	a complete	and operat	ional fire pr	otection sy	stem as i
ET BOX			olu gauge s		Surace n	nounting.					et sprinkler stems shall	•		PA 70, 72, I	FM and L
								equal. Instal to suit struct		All fire p	protection cc	mponents s	shall be UL	and FM ap	proved de
nditions. ved. Pr rous allo	Adequat ovide plas y outlet, ju	e to accon ter rings or nction boxe	nmodate siz covers on es and fitting	ze and nur boxes whe gs. Fixture	mber of rac ere required or device o	ceways, co on expose cover shall	onductors, c ed work, us completely	device or fixit e approved of conceal the s g outlets to w	ture D. cast size	•	ompletion o ince with read.		•	•	•
h archite ng. Rec	ctural feat eptacles a	ures as dire and telepho	ected. Swit	ches install	ed 48" abo	ve floor on	strike side	of door as fin noted. Verify	ally E.		e ties for co d in conduit			•	•
		with Archit							F.	Provide	permanent	identificatio	on of all val	ves, piping	, electrica

OARDS:

boards are as indicated on the drawings. Main lugs only unless noted or specified otherwise. de typewritten schedule of circuits in index cardholder. Provide with hinged door and hinged cover. cuit breakers shall be bolt-on molded case and have positive "trip" indication. Breakers used on H. ng panels shall match existing units and shall be labeled to have positive "trip" indication. Breakers be labeled to indicate suite number and use. Panelboards shall be ABB(General Electric), Square emens or Eaton/Cutler Hammer. All single pole circuit breakers shall be 'switch duty rated'. boards shall be fully rated. Series rated panels are not permitted.

NECT SWITCHES:

duty NEMA type 'HD' - same manufacturer as panelboards. Plastic nameplate properly engraved ame of equipment served, secured to switch cover. Fuses shall be Bussmann of sizes and types uled.

AND CONTROL WIRING AND CONNECTIONS:

Contractor to provide all necessary conduit, boxes and supports to equipment furnished by Owner s indicated on drawings. Provide a disconnect switch and starter if required.

actor shall label each and every j-box above ceiling with a permanent marker with panel and circuit er.

ets, adhesive film label, machine printed clear background with black letters, by thermal transfer or alent process. Minimum letter height shall be 1/4 inch. Face plate shall be labeled with panel and t number.

or equipment self-adhesive, engraved, laminated acrylic or melamine label: adhesive backed, with letters on a dark-gray background. Minimum letter height shall be 3/8 inch (10 mm).

ior equipment: Stenciled or engraved, laminated acrylic or melamine label: punched or drilled for v mounting. White letters on a black background. Minimum letter height shall be 1 inch (25 mm).

DEVICES:

ex receptacles shall be Hubbell #5352-X grounding type, 20A., 125V.; G.F.C.I. shall be Hubbell GF--X, 20A., 125V.; duplex, G.F.C.I. TYPE. Wall toggle switches shall be Hubbell Number 1221-X and per 1223-X for single pole and three way types respectively. Other switch, receptacle, and outlet variations shall be by Hubbell of "Spec. Grade" quality. Equivalent devices of P & S or Leviton acceptable in lieu of the above listed devices. Contractor to verify color of devices with Architect purchase. Provide brushed stainless steel cover plates to mate and match device for each outlet.

sensor: contactor shall verify with owner for proper time delay settings.

IG FIXTURES:

Contractor shall furnish and install complete, unless otherwise specified, a lighting fixture on each every lighting outlet shown on the drawings of each type scheduled by letter and description. All es shall be equipped with lamps as scheduled or specified herein. All fixtures installed in ended ceilings must be securely fastened to framing members per NEC 410-36b and local seismic requirements.

ARM SYSTEM:

eer's drawings showing fire alarm devices are schematic, and only provide code intent, ination, and all devices may not be indicated. Final layout shall be provided by the Fire Alarm actor. Fire alarm contractor shall become the Designer of Record as such, the contractor shall be nsible to verify device layouts comply with all applicable codes and shall include in bid all cost iated with additional devices should they be required. Final layout shall be coordinated with the ect and plans.

actor shall include in bid all cost associated with Fire alarm modifications.

END OF SECTION

- Upon final acceptance, the owner shall be responsible for p edition of NFPA 25 'Standard for the inspection, Testing an Systems'.
- PIPING, FITTING AND VALVES: 3.0
- A. Fire protection above ground -
 - 1. Pipe –

G.

2.0

D

- a. All sizes Schedule 40, black steel, malleable iro
- groove mechanical joints with wrought or forged s 1-1/2" and larger – Schedule 10, black steel; roll
- b. couplings.
- c. Contractor to match existing building piping materia
- Sprinkler piping shall be independently supported from a may bear on any sprinkler pipe or support. In accorda authority, sprinkler piping shall not be subjected to ex resting on sprinkler piping.
- a. Shutoff –

- 1) 1/2" thru 2"
- a) Nibco T-104-0 Bronze, UL and FM app
- 2) 2-1/2" thru 12" a) Nibco F607-OTS Cast Iron, UL and FM
- b. Sectional Zone Valves –
- 1) 1/2" thru 2"
 - a) Nibco T-104-0 Bronze, UL and FM a
- tamper and flow switches. 4. At contractor option, sprinklers may be supplied by (braided or unbraided corrugated) 175 PSIG rated flex threaded ends, brackets and other attachments, 6' ma equivalent.

4.0 SPRINKLERS

B. Sprinklers shall be of the following styles, subject to applicat

- 1. Recessed chrome plated brass with 2-piece adjustable
- 2. Pendant chrome plated brass with escutcheon in gyps
- Upright brass in unfinished areas. Provide wire cage 4. Upright brass in finished areas with exposed structure
- Where not otherwise indicated, sprinkler type, style, a
- 6. Any sprinklers removed shall be replaced with new sp
- C. Locate sprinklers at center of 2 x 2 lay-in tiles or 2 x 2 portion when in gypsum board ceilings. All location tolerances shall
- D. Refer to reflected ceiling plans for coordination with lights, di

END OF SECTION

15	16	17	18	19	20	21	22	23	24	25	26	27	28	29

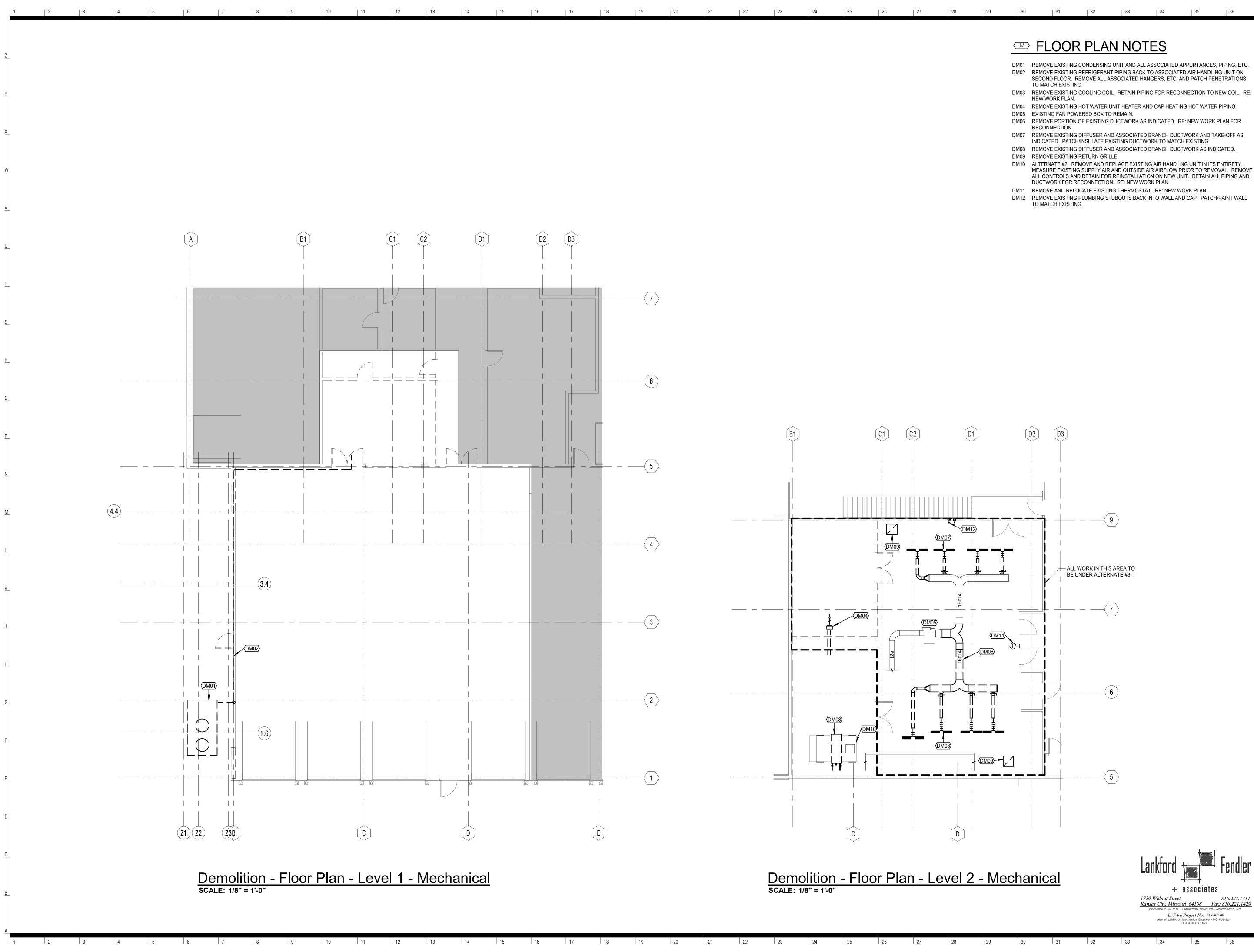
	24	25	26	27	28	29	30	31	32	33	34	35	36	
					210 100									
1.0	SCC	OPE:		FIR	E PROTEC	HON								
A. B.			C	ed by all app tional fire pro					s shall include	e:				
		•	r system N all be complia	IFPA 13. ant with NFPA	47072 FN	A and UL as	s applicable	Ż						-
C.									required by N	NFPA.				
D.	•	dance with r	•		•	•			rinkler contrac and Test Certi					-
E.	All ca	ble ties for c							vement that a IL or equivale					
F.		de permaner NFPA 13.	nt identificatio	on of all valve	es, piping, o	electrical co	omponents	and equipn	nent in accor	dance				
G.	Contr	actor shall p	rovide spare	sprinklers in	cabinet as	required by	NFPA.							-
H.		•		t, perform all I, controls ar	-	-	of the syste	m including	pressure and	d flow				
I.	Upon plans	completion (of the project data sheets	t, the fire prot	tection cont onent and t	ractor shall esting resu	Its stored in	n a docume	mentation inc ent cabinet, lo	•				
2.0	2		ER SYSTEM				iquired by i	NIIA.						
A.	Syste all are	ms shall be eas in the e	in accordanc entire buildin	ce with NFPA g or through	nout the are	-			mplete covera er system sh	•				-
B.	Sprink sprink and o	kler system s kler system. S bbtain necess	shall be a del Submit all neo sary permits	cessary docu	n, contracto mentation (plans, calcu	ulations, cut	t sheet litera	nd design of tl ature and flow or NICET star	tests)				_
C.	As ree inspe	ctor tests, fir	plication, sys re departmer		i, audible ai	nd visible a	larms, flow	and tampe	, sprinklers, v er switches, g d by owner.					-
D.	2. Provid piping	As close as de new sprin	possible, ma' kler piping ai		coverage, s throughout	style and ap area of wor	pearance o rk. Reconfi	of existing d igure existin						_
E.		de fire pump lever is less.	o if necessa	ry to meet s	system dem	nands. Març	gin of safe	ty shall be	10% or 10	PSIG,				_
F.		n of NFPA 2							lished by the sed Fire Prote					_
3.0	PIP	ING, FITTIN	G AND VAL\	/ES:										
A.	Fire p	protection abo	ove ground -											-
	1.	Pipe –												
	I	groove b. 1-1/2" a couplin	mechanical and larger – igs.	joints with wr	rought or for , black stee	rged steel fi el; roll groov	ittings or ro /e mechani	ll grooved e	ed fittings; roll end couplings. ith roll groove					-
				-				no other sy	rstem or comp	onent				
	; 	authority, sp	• •	g shall not be	• •				e required by either hung fr					
		a. Shutoff –												-
		, a)	/2" thru 2") Nibco T- -1/2" thru 12"	104-0 Bronze	e, UL and F	M approvec	l OS&Y Ga	ite, 175 PSI	G.					_
		a)		07-OTS Cas	t Iron, UL a	nd FM appr	roved OS&	Y Gate, 175	5 PSIG.					
			al Zone Valv /2" thru 2"	es –										_
	4.	At contracto (braided or) Nibco T- tamper a or option, sp unbraided co	nd flow switc rinklers may prrugated) 17	ches. be supplied 75 PSIG rate	d by UL 24 ed flexible h	43 listed 1 noses with a	" minimum all associate	PSIG. Provide 304 stainless ed UL listed fi -Flex or acce	s steel ttings,				_
4.0	SDDI	equivalent. NKLERS												
+.0 А.			oonse sprinkl	ers including	replaceme	nt sprinkler	s, standard	response,	extended cov	verage				-
	or dry applic	y sprinklers cation.	as required	by application	on. Replac	e existing		-	ers as requir	-				
B.	Sprini 1.			ving styles, si d brass with 2			Itcheon in 4	avnsum and	d lay-in tile ce	ilinae				-
	2. 3. 4. 5.	Pendant ch Upright bras Upright bras Where not c	rome plated ss in unfinish ss in finished otherwise ind	brass with es ed areas. Pr areas with e icated, sprinl	scutcheon ir rovide wire exposed stru kler type, st	n gypsum ai cage in area ucture. yle, appear	nd lay-in tile as subject f ance and c	e ceilings. to damage.	match existin	-	Lankford		Fondlo	p
C.				shall be repla 2 x 2 lav-in til		·		tiles. Alian	sprinklers in			4		1
	when	in gypsum b	ooard ceilings	a. All location	tolerances	shall be +/-	1/2".	-			1730 Walnut Stree Kansas City, Misso	ouri 64108 Fa	816.221.141 ax: 816.221.142	
D.	Refer	to reflected	ceiling plans	for coordinat	tion with lig	nts, diffuser	s, exit sign	s, etc.		-		LANKFORD FENDLER+	ASSOCIATES, INC.	

IJ		
BNIM Archite 2460 East Pershi p.816.783.1500	ng Road, Suite 100, Ja	Archi ckson County, Kansas City MO
MO State Certific KH Engineerin 13426 West 99th	ate of Authority #0023	Structural Engi
913-825-9381 Certificate of Auth Taliaferro & B	rowne	Civil Engi
816-283-2456 Lankford Fend Associates	reet, Jackson County, Ki ller +	MEPF Engi
1730 Walnut Stre 816-221-1411	eet, Jackson County, Ka	
MCC L	.ongview	нт
	on/Renov	
	ngview Road nit, MO 64081	Project No: 20008
PERMIT/BI	DOCUMENTS	
lssued: Sept Rev. #	ember 23, 2021 Description	Date Issued
Seal		
Seal		
Seal	GREG	
Seal	FEN PE-200 FEN	IDLER
License Name:	GREC GREC Sept. 23 Gregory J. Fendler : MEP Consulting Engine	DLER

Alan W. Lankford - Mechanical Engineer - MO #024224 COA #2006001168

36

30 31 32 33 34 35



- DM02 REMOVE EXISTING REFRIGERANT PIPING BACK TO ASSOCIATED AIR HANDLING UNIT ON SECOND FLOOR. REMOVE ALL ASSOCIATED HANGERS, ETC. AND PATCH PENETRATIONS
- DM03 REMOVE EXISTING COOLING COIL. RETAIN PIPING FOR RECONNECTION TO NEW COIL. RE:
- DM07 REMOVE EXISTING DIFFUSER AND ASSOCIATED BRANCH DUCTWORK AND TAKE-OFF AS
- INDICATED. PATCH/INSULATE EXISTING DUCTWORK TO MATCH EXISTING. DM08 REMOVE EXISTING DIFFUSER AND ASSOCIATED BRANCH DUCTWORK AS INDICATED.
- DM10 ALTERNATE #2. REMOVE AND REPLACE EXISTING AIR HANDLING UNIT IN ITS ENTIRETY. MEASURE EXISTING SUPPLY AIR AND OUTSIDE AIR AIRFLOW PRIOR TO REMOVAL. REMOVE ALL CONTROLS AND RETAIN FOR REINSTALLATION ON NEW UNIT. RETAIN ALL PIPING AND
- DM12 REMOVE EXISTING PLUMBING STUBOUTS BACK INTO WALL AND CAP. PATCH/PAINT WALL



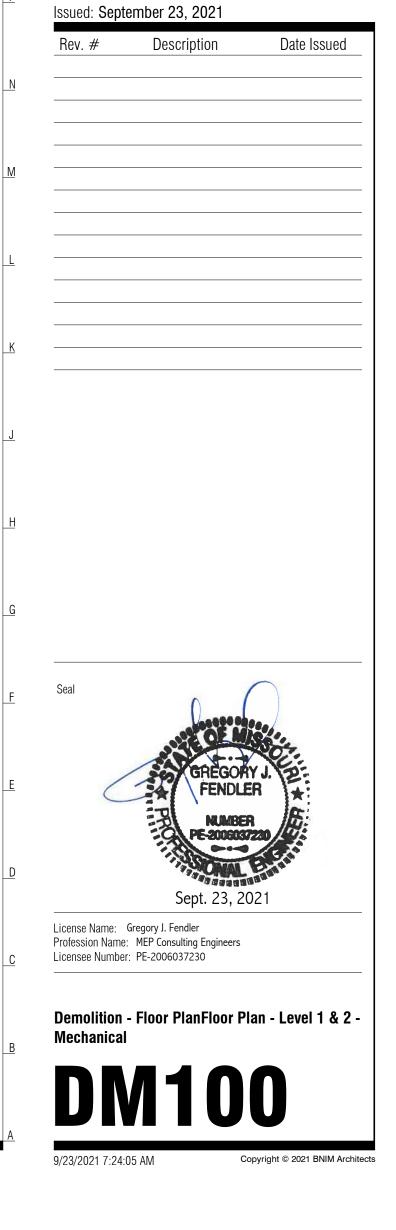
RELEASED FOR CONSTRUCTION As Noted on Plans Review

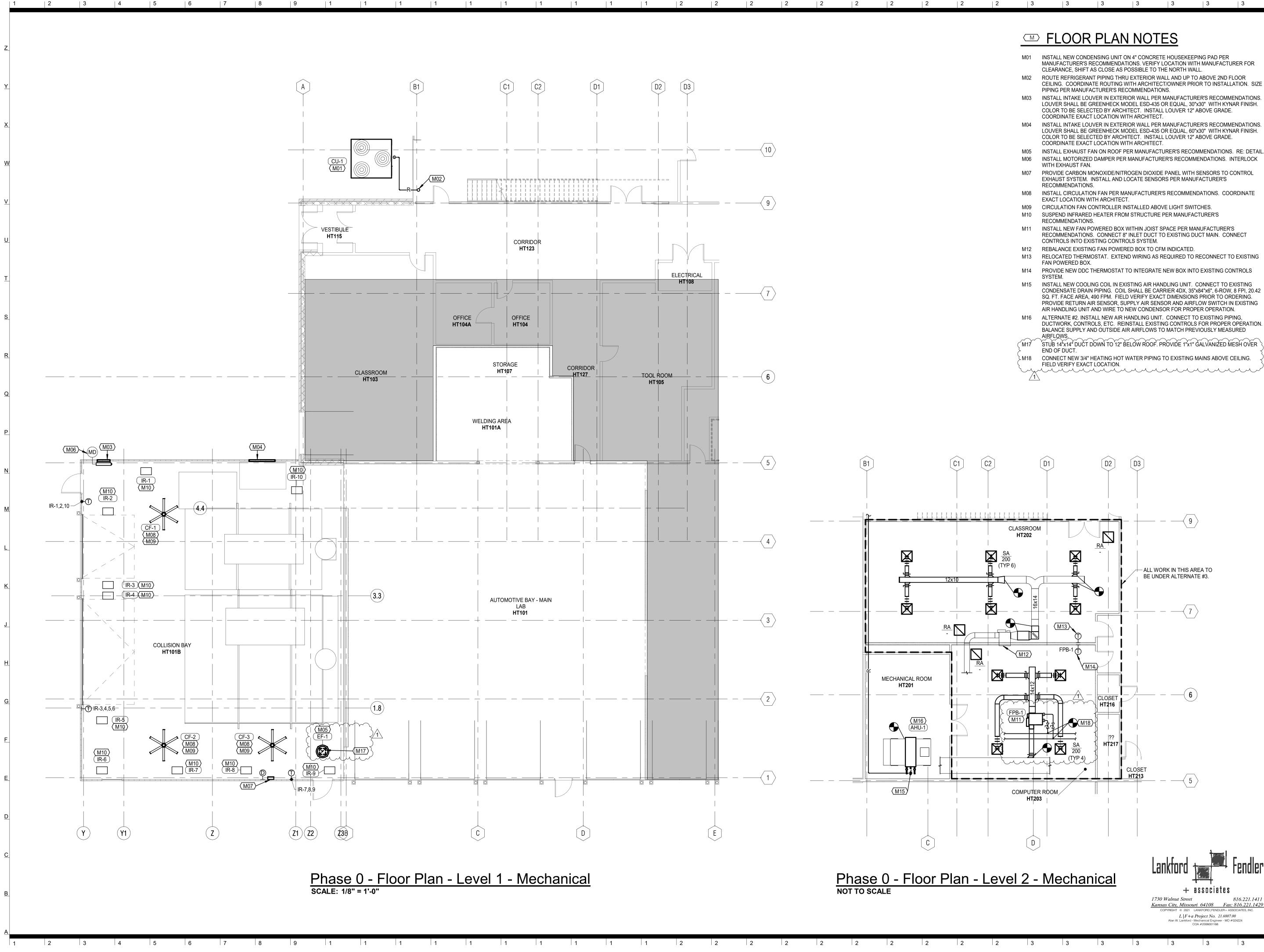
- BNIM Architects Architect 2460 East Pershing Road, Suite 100, Jackson County, Kansas City MO 64108 p.816.783.1500 f.816.783.1501 MO State Certificate of Authority #00235006 Structural Engineer KH Engineering Group 13426 West 99th Street, Johnson County, Lenexa, KS 66215 913-825-9381 Certificate of Authority Taliaferro & Browne Civil Engineer
- 1020 East 8th Street, Jackson County, Kansas City, MO 64106 816-283-2456 Lankford Fendler +
- MEPF Engineer Associates 1730 Walnut Street, Jackson County, Kansas City, MO 64108 816-221-1411

MCC Longview HT **Addition/Renovation**

- 500 SW Longview Road Lee's Summit, MO 64081 Project No: 20008.00

PERMIT/BID DOCUMENTS





- CEILING. COORDINATE ROUTING WITH ARCHITECT/OWNER PRIOR TO INSTALLATION. SIZE
- M03 INSTALL INTAKE LOUVER IN EXTERIOR WALL PER MANUFACTURER'S RECOMMENDATIONS. LOUVER SHALL BE GREENHECK MODEL ESD-435 OR EQUAL, 30"x30" WITH KYNAR FINISH.
- LOUVER SHALL BE GREENHECK MODEL ESD-435 OR EQUAL, 60"x30" WITH KYNAR FINISH.
- M05 INSTALL EXHAUST FAN ON ROOF PER MANUFACTURER'S RECOMMENDATIONS. RE: DETAIL INSTALL MOTORIZED DAMPER PER MANUFACTURER'S RECOMMENDATIONS. INTERLOCK
- M07 PROVIDE CARBON MONOXIDE/NITROGEN DIOXIDE PANEL WITH SENSORS TO CONTROL
- M08 INSTALL CIRCULATION FAN PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE

- M14 PROVIDE NEW DDC THERMOSTAT TO INTEGRATE NEW BOX INTO EXISTING CONTROLS
- M15 INSTALL NEW COOLING COIL IN EXISTING AIR HANDLING UNIT. CONNECT TO EXISTING CONDENSATE DRAIN PIPING. COIL SHALL BE CARRIER 4DX, 35"x84"x6", 6-ROW, 8 FPI, 20.42 SQ. FT. FACE AREA, 490 FPM. FIELD VERIFY EXACT DIMENSIONS PRIOR TO ORDERING. PROVIDE RETURN AIR SENSOR, SUPPLY AIR SENSOR AND AIRFLOW SWITCH IN EXISTING
- DUCTWORK, CONTROLS, ETC. REINSTALL EXISTING CONTROLS FOR PROPER OPERATION. BALANCE SUPPLY AND OUTSIDE AIR AIRFLOWS TO MATCH PREVIOUSLY MEASURED
- STUB 14"x14" DUCT DOWN TO 12" BELOW ROOF. PROVIDE 1"x1" GALVANIZED MESH OVER

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- Certificate of Authority

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- Taliaferro & Browne Civil Engineer 1020 East 8th Street, Jackson County, Kansas City, MO 64106 816-283-2456
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- MEPF Engineer 1730 Walnut Street, Jackson County, Kansas City, MO 64108 816-221-1411

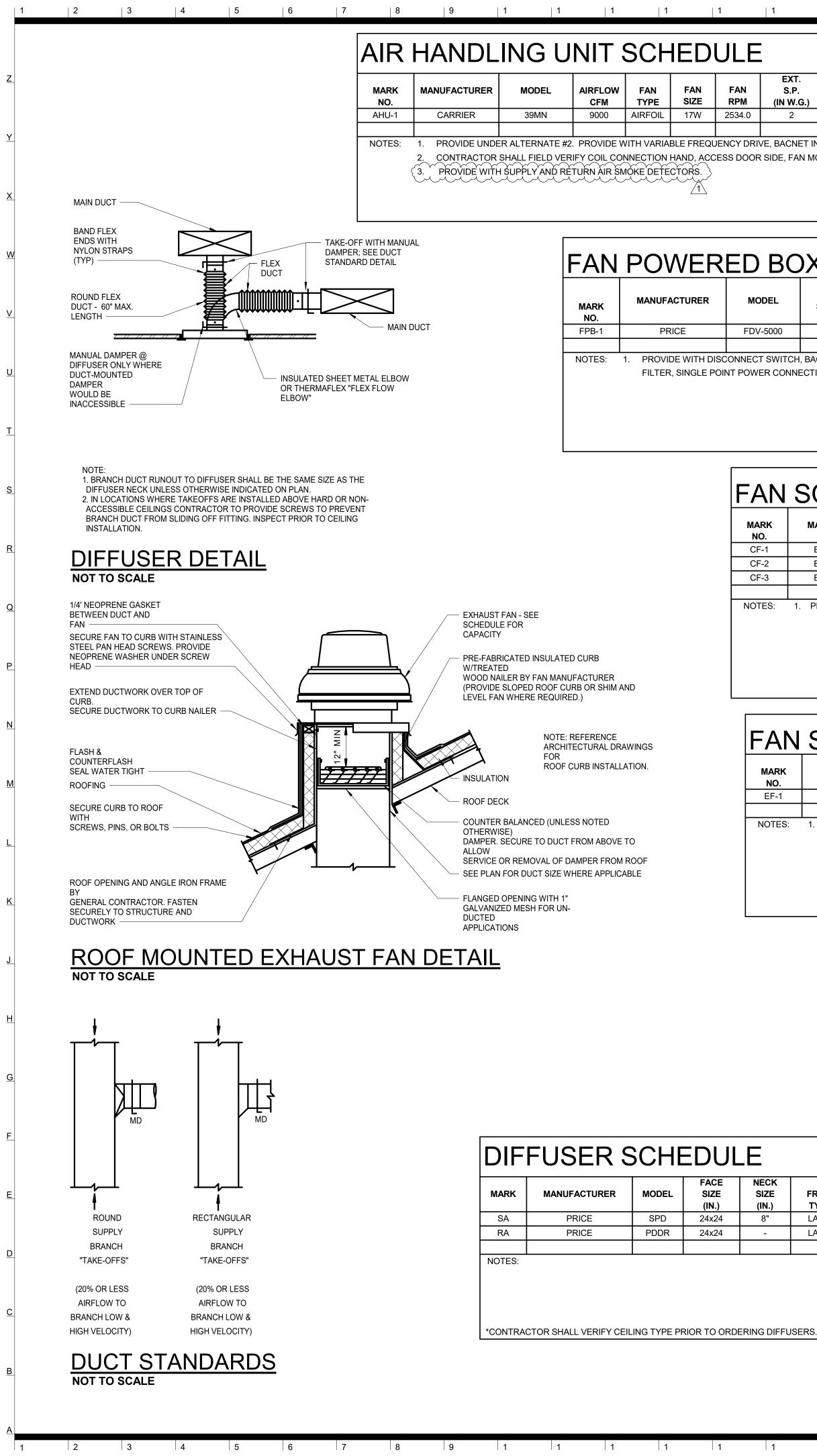
MCC Longview HT **Addition/Renovation**

500 SW Longview Road Lee's Summit, MO 64081

Project 20008.00 No:

PERMIT/BID DOCUMENTS

IssuedSeptember 23, 2021 Date Issued Description Rev. # 10/25/2021 1 Addendum #3 Seal License Name: Gregory J. Fendler Profession Name: MEP Consulting Engineers Licensee Number: PE-2006037230 Phase 0 - Floor Plan - Level 1 & 2 - Mechanical M10010/25/2021 1:31:56 PM Copyright © 2021 BNIM Architects



1	1	1	1	1	2	2	2	2	2	2	2	2	2	2

JLE																
	EXT.	TOTAL			COO	LING COIL	_	_				EL	ECTRIC	AL		1
FAN	S.P.	S.P.	E.D.B.	E.W.B.	L.D.B.	L.W.B.	TOTAL	SENS.	E.D.B.	L.D.B.	TOTAL				NOTES	1
RPM	(IN W.G.)	(IN W.G.)	(°F)	(°F)	(°F)	(°F)	MBH	MBH	(°F)	(°F)	MBH	VOLT	ø	HZ		
2534.0	2	3.95	80	67.0	53.1	52.3	400.8	264.3	60	91.6	316	480	3	60	1,2,3	
ENCY DRIV	/E, BACNET IN	TERFACE, RETL	JRN AIR SEN	ISOR, SUPPL	Y AIR SENS	OR AND AIRF	LOW SWITC	H.								1
																1

CONTRACTOR SHALL FIELD VERIFY COIL CONNECTION HAND, ACCESS DOOR SIDE, FAN MOTOR SIDE AND FAN CONFIGURATION PRIOR TO ORDERING.

2	ED BOX SCHEDULE														
	MODEL	FAN	INLET	MAX. AIR VALVE	MIN. AIR VALVE	MAX. AIR VALVE	MAX.	150°F	EWT /150°F	- LWT	EI		AL		1
	MODEL	SIZE	SIZE	COOLING CFM	COOLING CFM	HEATING CFM	NC @1"WC	FLOW (GPM)	WPD (FT)	CAPACITY (MBH)	VOLT	Ø	HZ	NOTES	I
	FDV-5000	20	8"	800	75	525	40	3.0	0.5	19.8	120	1	60	1	ı

NOTES: 1. PROVIDE WITH DISCONNECT SWITCH, BACNET CONTROLLER, HOT WATER COIL, 3-WAY CONTROL VALVE, AIR PROOF SWITCH, SPRING HANGER BRACKETS, DISPOSABLE PLEATED RETURN AIR FILTER, SINGLE POINT POWER CONNECTION AND 24V TRANSFORMER FOR TEMPERATURE CONTROLS.

FAN SCHEDULE

									E	LECTRIC	4L		
MARK NO.	MANUFACTURER	MODEL	DIAMETER IN.	AIRFLOW (CFM)	# OF AIRFOILS	RPM	SOUND LEVEL (DBA)	COLOR	VOLT	ø	HZ	WATTS	NOTES
CF-1	BIG ASS FANS	ES6	72	9959	6	115	<35	WHITE	120	1	60	23.7	1
CF-2	BIG ASS FANS	ES6	72	9959	6	115	<35	WHITE	120	1	60	23.7	1
CF-3	BIG ASS FANS	ES6	72	9959	6	115	<35	WHITE	120	1	60	23.7	1
NOTES	1 PROVIDE WITH FIXED			R UNIVERSAL N		42" DOWNR							

NOTES: 1. PROVIDE WITH FIXED WALL MOUNT CONTROLLER, UNIVERSAL MOUNT AND 42" DOWNROD

MANUFACTURER	MODEL	TYPE		S.P.			DRIVE	ELECTRICAL				
			AIRFLOW (CFM)	S.P. (IN W.G.)	FAN TYPE	RPM	DRIVE	VOLT	Ø	HZ	HP	NOTE
GREENHECK	G-130	DOWNBLAST	1500	0.125	FC	1140	DIRECT	120	1	60	1/6	1
	PROVIDE WITH SLOP	PROVIDE WITH SLOPED ROOF CUP		PROVIDE WITH SLOPED ROOF CURB, DISCONNECT SWITCH, SP	PROVIDE WITH SLOPED ROOF CURB, DISCONNECT SWITCH, SPEED CONTRO	PROVIDE WITH SLOPED ROOF CURB, DISCONNECT SWITCH, SPEED CONTROLLER, HING	PROVIDE WITH SLOPED ROOF CURB, DISCONNECT SWITCH, SPEED CONTROLLER, HINGED CURB C/	PROVIDE WITH SLOPED ROOF CURB, DISCONNECT SWITCH, SPEED CONTROLLER, HINGED CURB CAP, HINGED E	PROVIDE WITH SLOPED ROOF CURB, DISCONNECT SWITCH, SPEED CONTROLLER, HINGED CURB CAP, HINGED BASE, CUR	PROVIDE WITH SLOPED ROOF CURB, DISCONNECT SWITCH, SPEED CONTROLLER, HINGED CURB CAP, HINGED BASE, CURB SEAL,	PROVIDE WITH SLOPED ROOF CURB, DISCONNECT SWITCH, SPEED CONTROLLER, HINGED CURB CAP, HINGED BASE, CURB SEAL,	PROVIDE WITH SLOPED ROOF CURB, DISCONNECT SWITCH, SPEED CONTROLLER, HINGED CURB CAP, HINGED BASE, CURB SEAL,

					SAT.			E	LECTRICA	4L	
MARK NO.	MANUFACTURER	MODEL	TOTAL (MBH)	AMB. (°F)	SUCTION TEMP (°F)	STAGES	EER	VOLT	Ø	HZ	NOTES
CU-1	CARRIER	38APD040	448.3	100	45	2	10.40	480	3	60	1
NOTES:	1. PROVIDE WITH DIS	CONNECT S	WITCH, DIGIT	TAL COMPRE	ESSOR, LOW SOUN	ND FAN AND	COMPRESS	OR, ALUM	INUM FIN	/COPPER	ľ
	TUBE CONDENSER	COILS, BACI	NET INTERFA	ACE, COMPR	ESSOR CRANKCA	SE HEATER,	LOW AMBIE	NT KIT, C	OMPRES	SOR	I
	TIME-OFF CONTRO	L, AND HAIL	GUARDS.								I

	E			
	NECK SIZE (IN.)	FRAME TYPE*	FINISH	NOTES
1	8"	LAY-IN	WHITE	
1	-	LAY-IN	WHITE	

MARK					EL	ECTRIC/	4L	
NO.	MANUFACTURER	MODEL	TYPE	INPUT (MBH)	VOLT	ø	HZ	NOTES
-1 THRU 10	SPACE RAY	RSCA3-N5	CERAMIC	26	120	1	60	1
	1. PROVIDE WITH 24V (RE: DRAWINGS), A MOUNTING HARDW	LUMINNUM REFL						

3 3 3 3 3 3

GENERAL NOTES (TYPICAL ALL SHEETS)

- A. MECHANICAL CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.
- B. ALL EXISTING DUCTWORK SHOWN ON DRAWINGS IS SCHEMATIC AND DOES NOT REFLECT EXACT EXISTING CONDITIONS. CONTRACTOR TO FIELD VERIFY EXACT DEPTH AND/OR LOCATIONS ON JOB SITE. CONTRACTOR SHALL REROUTE NEW WORK TO ACCOMMODATE EXACT LOCATIONS OF EXISTING UTILITIES, STUBOUTS AND/OR CONNECTIONS.
- C. CUTTING AND PATCHING OF FLOORS, WALLS, CEILING, ETC., REQUIRED IN STRICT ACCORDANCE WITH THE RULES AND REGULATIONS OF THE ARCHITECT'S AND/OR BUILDING OWNER REQUIREMENTS.
- D. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING CONFLICTS.
- E. ANY MATERIAL REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED FROM PROJECT SITE AND DISPOSED OF BY CONTRACTOR.
- F. MECHANICAL CONTRACTOR SHALL REMOVE, PATCH AIR TIGHT AND REINSULATE ALL DUCTWORK TAPS NOT REUSED WITH SAME MATERIAL AS EXISTING DUCTWORK.
- G. ALL REMOVED DEVICES THAT ARE BEING REUSED FOR NEW CONSTRUCTION SHALL BE CLEANED OF ALL DIRT AND STORED ON SITE.
- H. MECHANICAL CONTRACTOR SHALL AIR BALANCE ALL GRILLES TO CFM'S SHOWN ON PLANS.
- I. ALL THERMOSTATS SHALL BE MOUNTED TO MATCH BUILDING STANDARDS UNLESS OTHERWISE NOTED.
- J. MECHANICAL CONTRACTOR SHALL PROVIDE NEW 1" FARR TYPE PLEATED FILTERS ON ALL TERMINAL BOXES WHICH ARE IN PROJECT SCOPE OF WORK PRIOR TO BALANCING. PROVIDE TEMPORARY FILTERS ON RETURN AIR OPENINGS DURING CONSTRUCTION.
- K. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND RETAINING ALL TEMPERATURE CONTROLS FROM EXISTING UNITS, FOR REINSTALLATION UNDER NEW WORK. UPON REINSTALLATION, CONTRACTOR SHALL VERIFY PROPER OPERATION AND NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING IF PROBLEMS ARE FOUND.
- L. ALL DUCTWORK, DIFFUSERS, TERMINAL UNITS, ETC. ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.
- M. INSTALL ELASTOMERIC JOINT SEALER AROUND ALL DUCTS, PIPES, ETC. PASSING THRU INTERIOR NON-RATED CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL DUCTS, PIPES, ETC. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- N. MECHANICAL CONTRACTOR SHALL COORDINATE ALL TEMPERATURE CONTROL WORK WITH BUILDING OWNER. BUILDING SYSTEM SHALL REMAIN OPERATIONAL AT ALL TIMES.
- O. UPON REQUEST FOR ELECTRONIC FILES. CONTRACTOR SHALL FILL OUT, SIGN AND RETURN ELECTRONIC MEDIA RELEASE FORM FROM ENGINEER AND PROVIDE PAYMENT FOR FEES STIPULATED ON ELECTRONIC MEDIA RELEASE FORM. UPON RECEIPT OF COMPLETED RELEASE FORM AND PAYMENT, ELECTRONIC FILES WILL BE RELEASED.
- P. ALL CABLE TIES FOR LOW VOLTAGE SYSTEMS LOCATED IN PLENUMS UTILIZED FOR AIR MOVEMENT THAT ARE NOT INSTALLED IN CONDUIT SHALL BE 25/50 FLAME AND SMOKE RATED, HELLERMANN TYTON T50R2C2UL OR EQUIVALENT.

MECHANICAL SYMBOLS

[] []	EXISTING DUCTWORK TO BE REMOVED
	EXISTING DUCT TO REMAIN
••	NEW DUCTWORK
	FLEX DUCT
\geq	EXHAUST DUCT
\boxtimes	SUPPLY DIFFUSER
\square	RETURN GRILLE
	MANUAL VOLUME DAMPER
Φ	THERMOSTAT
?	EQUIPMENT TYPE AND DESIGNATION
<u>SA</u> 200	TYPE MARK: (S_) SUPPLY, (R_) RETURN, (E_) EXHAUST DIFFUSER OR GRILLE TYPE MARK AND CFM CFM
igodot	CONNECT TO EXISTING

	Lankford	associat	^{El} Fendler
	1730 Walnut Street Kansas City, Misso COPYRIGHT © 2021 L F+.	t puri 64108	816.221.1411 Fax: 816.221.1429 R+ ASSOCIATES, INC. 6807.00
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- Certificate of Authority Taliaferro & Browne
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- Associates MEPF Engineer 1730 Walnut Street, Jackson County, Kansas City, MO 64108 816-221-1411

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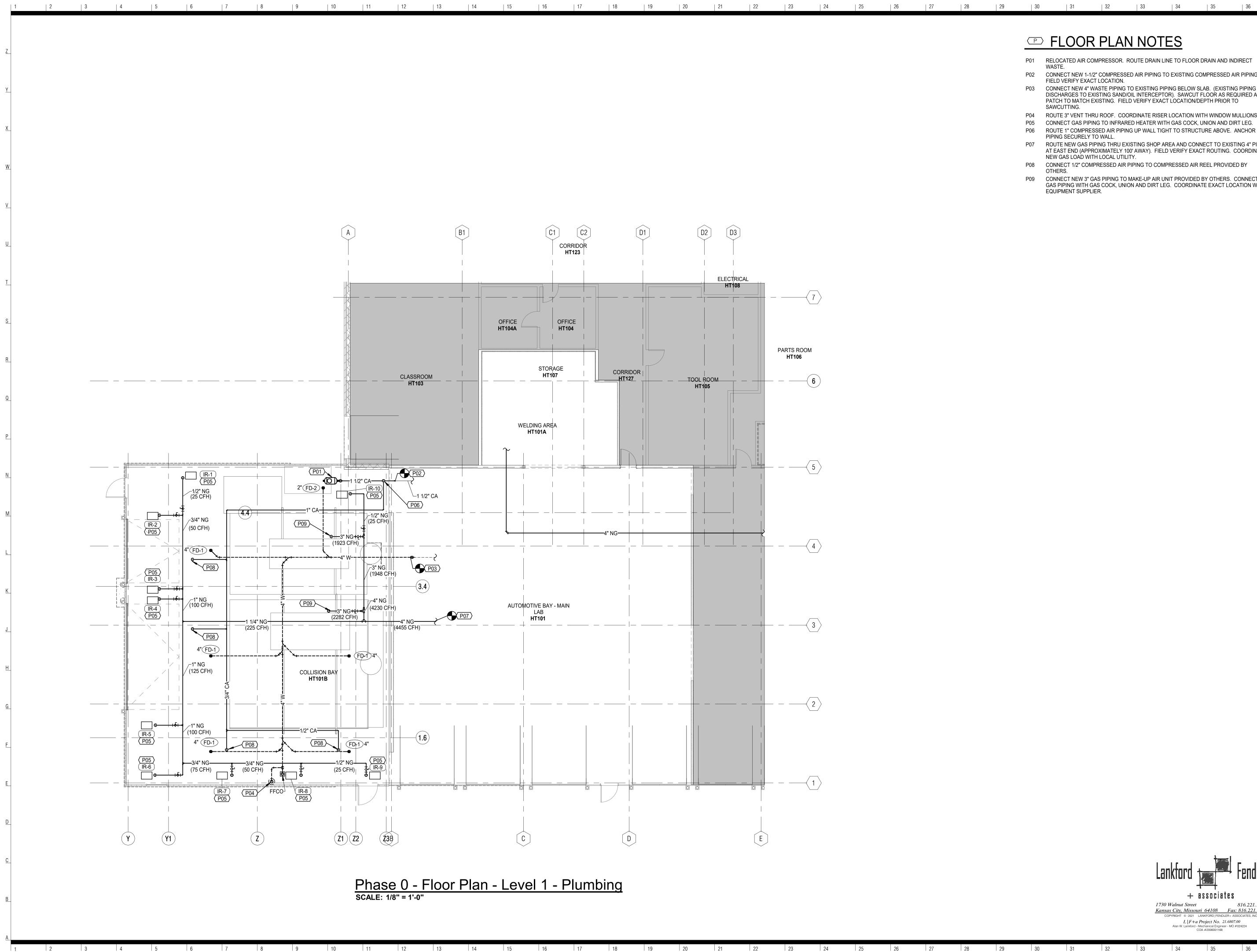
Rev. #	Description	Date Issued
1	Addendum #3	10/25/202
Seal		
Profession N	ne: Gregory J. Fendler Name: MEP Consulting I	Engineers
licensee Nu	Imber: PE-2006037230	
MECHANIC	AL DETAILS, SCHEDU	JLES, GENERA
	,	
	ID SYMBOLS	
NOTES, AN		
NOTES, AN	D SYMBOLS	

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FLOOR PLAN NOTES

EQUIPMENT SUPPLIER.

P01 RELOCATED AIR COMPRESSOR. ROUTE DRAIN LINE TO FLOOR DRAIN AND INDIRECT WASTE.

- P02 CONNECT NEW 1-1/2" COMPRESSED AIR PIPING TO EXISTING COMPRESSED AIR PIPING. FIELD VERIFY EXACT LOCATION.
- P03 CONNECT NEW 4" WASTE PIPING TO EXISTING PIPING BELOW SLAB. (EXISTING PIPING DISCHARGES TO EXISTING SAND/OIL INTERCEPTOR). SAWCUT FLOOR AS REQUIRED AND PATCH TO MATCH EXISTING. FIELD VERIFY EXACT LOCATION/DEPTH PRIOR TO SAWCUTTING.
- P04 ROUTE 3" VENT THRU ROOF. COORDINATE RISER LOCATION WITH WINDOW MULLIONS. P05 CONNECT GAS PIPING TO INFRARED HEATER WITH GAS COCK, UNION AND DIRT LEG. P06 ROUTE 1" COMPRESSED AIR PIPING UP WALL TIGHT TO STRUCTURE ABOVE. ANCHOR PIPING SECURELY TO WALL.
- P07 ROUTE NEW GAS PIPING THRU EXISTING SHOP AREA AND CONNECT TO EXISTING 4" PIPING AT EAST END (APPROXIMATELY 100' AWAY). FIELD VERIFY EXACT ROUTING. COORDINATE NEW GAS LOAD WITH LOCAL UTILITY. P08 CONNECT 1/2" COMPRESSED AIR PIPING TO COMPRESSED AIR REEL PROVIDED BY
- OTHERS. P09 CONNECT NEW 3" GAS PIPING TO MAKE-UP AIR UNIT PROVIDED BY OTHERS. CONNECT GAS PIPING WITH GAS COCK, UNION AND DIRT LEG. COORDINATE EXACT LOCATION WITH

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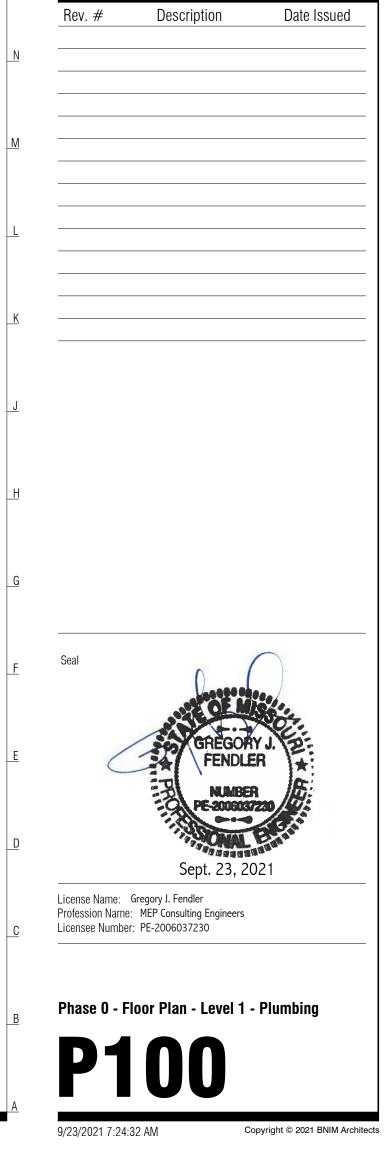
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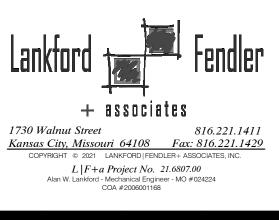
Addition/Renovation

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- **PERMIT/BID DOCUMENTS**

Project No: 20008.00

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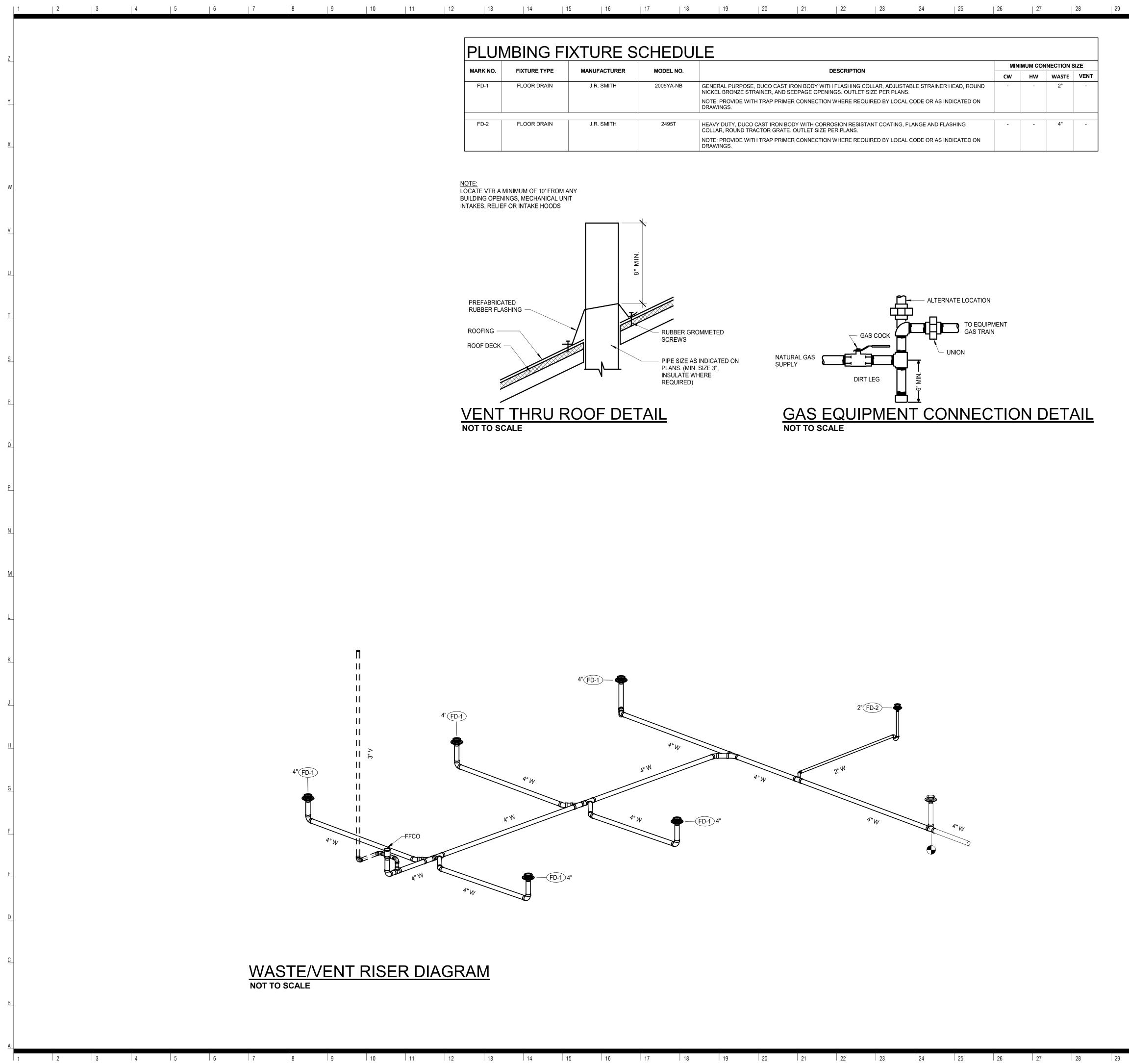


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14 15 16 17 18 19 20 21 22 23 24 25 26 27	28		
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	NG FIXTURE SCHEDULE MINIMUM CONNECTION SIZE													
TURE TYPE	MANUFACTURER	MODEL NO.	DESCRIPTION	CW HW WASTE VE										
DOR DRAIN	J.R. SMITH	2005YA-NB	GENERAL PURPOSE, DUCO CAST IRON BODY WITH FLASHING COLLAR, ADJUSTABLE STRAINER HEAD, ROUND NICKEL BRONZE STRAINER, AND SEEPAGE OPENINGS. OUTLET SIZE PER PLANS.	-	-	2" -								
			NOTE: PROVIDE WITH TRAP PRIMER CONNECTION WHERE REQUIRED BY LOCAL CODE OR AS INDICATED ON DRAWINGS.											
		0.4077												
OOR DRAIN	J.R. SMITH	2495T	HEAVY DUTY, DUCO CAST IRON BODY WITH CORROSION RESISTANT COATING, FLANGE AND FLASHING COLLAR, ROUND TRACTOR GRATE. OUTLET SIZE PER PLANS.	-	-	4"	-							
			NOTE: PROVIDE WITH TRAP PRIMER CONNECTION WHERE REQUIRED BY LOCAL CODE OR AS INDICATED ON DRAWINGS.											

29 | 30 | 31 | 32 | 33 | 34 | 35 | 36

GENERAL NOTES (TYPICAL ALL SHEETS)

- A. PLUMBING CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.
- B. ALL EXISTING PIPING SHOWN ON DRAWINGS IS SCHEMATIC DOES NOT REFLECT EXACT EXISTING CONDITIONS. CONTRACTOR TO FIELD VERIFY EXACT DEPTH AND/OR LOCATIONS ON JOB SITE. CONTRACTOR SHALL REROUTE NEW WORK TO ACCOMMODATE EXACT LOCATIONS OF EXISTING UTILITIES, STUBOUTS AND/OR CONNECTIONS.
- C. CUTTING AND PATCHING OF FLOORS, WALLS, CEILING, ETC., REQUIRED IN STRICT ACCORDANCE WITH THE RULES AND REGULATIONS OF THE ARCHITECT'S AND/OR BUILDING OWNER REQUIREMENTS.
- D. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING CONFLICTS.
- E. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL EQUIPMENT BY OTHERS. VERIFY CONNECTIONS SIZES AND REQUIREMENTS.
- F.UPON REQUEST FOR ELECTRONIC FILES, CONTRACTOR SHALL FILL OUT, SIGN AND RETURN ELECTRONIC MEDIA RELEASE FORM FROM ENGINEER AND PROVIDE PAYMENT FOR FEES STIPULATED ON ELECTRONIC MEDIA RELEASE FORM. UPON RECEIPT OF COMPLETED RELEASE FORM AND PAYMENT, ELECTRONIC FILES WILL BE RELEASED.

PLUMBING SYMBOLS

	NEW PIPING
—СА—	COMPRESSED AIR
—NG	NATURAL GAS
V	SANITARY VENT ABOVE GRD./FLOOR ABOVE
— — V— —	SANITARY VENT BELOW GROUND
— — W— —	SANITARY WASTE BELOW GROUND
 ₩	GAS SHUT-OFF COCK
🛞 OR <u>//</u>	FLOOR DRAIN
	PIPE DROP/ PIPE RISE
	BOTTOM OUTLET TEE
—o—	TOP OUTLET TEE
O FFCO	FINISHED FLOOR CLEANOUT
٥VTR)	VENT THROUGH ROOF
(L-1)	EQUIPMENT TYPE AND DESIGNATION
ETR	EXISTING TO REMAIN
\bigcirc	CONNECT TO EXISTING

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Alan W. Lankford	Project No. 21.6807 Mechanical Engineer - MO COA #2006001168	

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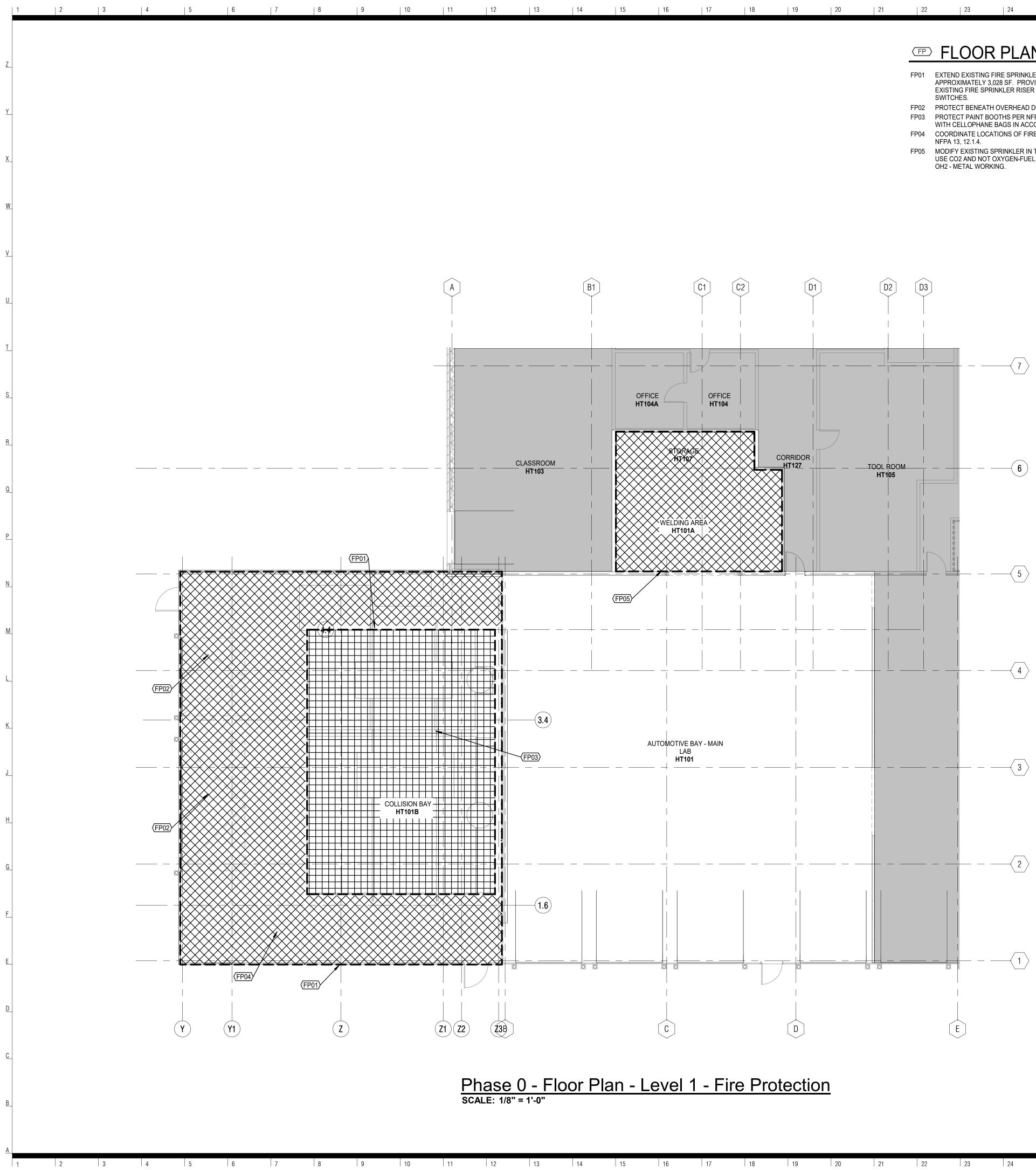
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Project No: 20008.00

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Issued: September 23, 2021 Date Issued Rev. # Description License Name: Gregory J. Fendler Profession Name: MEP Consulting Engineers Licensee Number: PE-2006037230 PLUMBING DETAILS, SCHEDULES, GENERAL NOTES, AND SYMBOLS **P200** 9/23/2021 7:24:34 AM Copyright © 2021 BNIM Architects



14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	

FP FLOOR PLAN NOTES

- FP01 EXTEND EXISTING FIRE SPRINKLER SYSTEM INTO NEW BUILDING ADDITION OF APPROXIMATELY 3,028 SF. PROVIDE SEPARATE CONTROL VALVE AND FEED MAIN FROM EXISTING FIRE SPRINKLER RISER TO SERVE NEW ADDITION WITH TAMPER & FLOW
- FP02 PROTECT BENEATH OVERHEAD DOORS IN ACCORDANCE WITH NFPA 13.

FP03 PROTECT PAINT BOOTHS PER NFPA 13, SECTION 22.4 PROTECT SPRINKLERS IN BOOTHS WITH CELLOPHANE BAGS IN ACCORDANCE WITH NFPA 13 6.2.4. FP04 COORDINATE LOCATIONS OF FIRE SPRINKLERS WITH HVLS FANS IN ACCORDANCE WITH

FP05 MODIFY EXISTING SPRINKLER IN THIS AREA FOR NEW WELDING AREA. WELDING BOOTHS USE CO2 AND NOT OXYGEN-FUEL OR ANY FLAMMABLE GASES. PROTECT PER NFPA 13 FOR

FIRE PROTECTION DESIGN CRITERIA

A. ENTIRE BUILDING AS SHOWN ON DRAWINGS IS CURRENTLY PROVIDED WITH A WET TYPE SPRINKLER SYSTEM. MODIFY SYSTEM AS NECESSARY FOR NEW WALL LAYOUTS AND IN COMPLIANCE WITH THE RULES AND REGULATIONS OF APPLICABLE FEDERAL. STATE AND LOCAL LAWS, CODES AND ORDINANCES, THE OWNER'S INSURANCE COMPANY AND NFPA 13.

B. FURNISH ALL MATERIALS, LABOR, TOOLS, TRANSPORTATION, INCIDENTALS AND APPURTENANCES TO COMPLETE IN EVERY DETAIL AND LEAVE IN WORKING ORDER ALL ITEMS OF WORK REQUIRED FOR STRICT COMPLIANCE.

C. NEW FIRE PROTECTION PIPING AND FITTINGS SHALL MATCH EXISTING, OR PROVIDE SCHEDULE 40 FOR 2" AND SMALLER WITH THREADED ENDS AND SCHEDULE 10 FOR 1-1/2" AND LARGER WITH ROLL-GROOVED ENDS AND GROOVED JOINTS. ALL PIPING IN AREAS WITH CEILINGS SHALL BE RUN CONCEALED WITH NO EXCEPTIONS UNLESS COORDINATED WITH ARCHITECT AND ENGINEER. PIPE SIZES SHOWN ON PLANS FOR INFORMATION ONLY. VERIFY BY HYDRAULIC CALCULATIONS.

D. NEW FIRE SPRINKLERS SHALL MATCH EXISTING IN TYPE, STYLE AND APPEARANCE. ANY REMOVED/RELOCATED FIRE SPRINKLERS MUST BE REPLACED WITH NEW PER NFPA 13. CONTRACTOR RESPONSIBLE FOR FIELD VERIFICATION OF ALL INFORMATION.

E. ALL SPRINKLERS IN LAY-IN CEILINGS ARE TO BE CENTERED ±1/2" IN 2'x2' PORTION OF TILE. ALL SPRINKLERS IN GYP-BOARD CEILINGS ARE TO BE CENTERED ±1/2" WITH LIGHT FIXTURES AND ALIGNED WITH ALL OTHER DEVICES IN CEILING IN BOTH DIRECTIONS. COORDINATE WITH ARCHITECT.

F. FIRE PROTECTION CONTRACTOR SHALL PREPARE DETAILED AND COORDINATED SHOP DRAWINGS SO AS TO AVOID CONFLICTS IN THE FIELD. CONTRACTOR SHALL COORDINATE WITH REFLECTED CEILING PLAN, DUCTWORK LAYOUT AND LIGHTING LAYOUT. ALL COORDINATION SHALL TAKE PLACE PRIOR TO INSTALLATION.

G. CONTRACTOR SHALL FILE ALL DRAWINGS, PAY ALL FEES AND OBTAIN PERMITS AND CERTIFICATES OF INSPECTIONS RELATIVE TO THIS WORK.

H. CONTRACTOR SHALL OBTAIN CURRENT FIRE HYDRANT FLOW TEST DATA AND USE FOR SYSTEM HYDRAULIC CALCULATIONS. USE DATA TO DESIGN SYSTEMS ACCORDINGLY BASED ON AVERAGE NUMBERS PLUS 10% SAFETY.

I. PREPARE AND SUBMIT SHOP DRAWINGS, PRODUCT DATA AND HYDRAULIC CALCULATIONS AS REQUIRED. ALL INFORMATION SHOWN ON FIRE PROTECTION DRAWINGS SHALL BE INCLUDED ON THE SHOP DRAWINGS.

J. CONTRACTOR TO BE RESPONSIBLE FOR MAKING FINAL COORDINATION WITH STRUCTURE AND ALL OTHER TRADES PRIOR TO SUBMITTING SHOP DRAWINGS. ALL ELEVATIONS OF PIPE MUST BE SHOWN ON SHOP DRAWINGS.

K. ALL SPRINKLERS AND PIPING SHALL BE PROTECTED FROM FREEZING. USE DRY SIDEWALL SPRINKLERS OR DRY PIPE SYSTEM FOR VESTIBULES, ALCOVES, TRASH ENCLOSURES, CANOPIES, AND PORCHES.

L. NFPA 13 - 2016 ED - 7.1.5 A SINGLE AIR VENT WITH A CONNECTION SHALL BE PROVIDED ON EACH WET PIPE SYSTEM. THE AIR VENT SHALL BE LOCATED NEAR A HIGH POINT IN THE SYSTEM TO ALLOW AIR TO BE REMOVED FROM THAT PORTION OF THE SYSTEM BY ONE OF THE FOLLOWING METHODS: MANUAL VALVE, MINIMUM 1/2 (15MM) SIZE; OR AUTOMATIC AIR VENT.

M. ALL SPRINKLERS AND PIPING SHALL BE PROTECTED FROM FREEZING. USE DRY SIDEWALL SPRINKLERS OR DRY PIPE SYSTEM FOR VESTIBULES, ALCOVES, TRASH ENCLOSURES, CANOPIES, AND PORCHES.

N. PROVIDE AUXILIARY DRAINS AS REQUIRED BY NFPA 13. COORDINATE LOCATIONS WITH OWNER. AUXILIARY DRAINS MUST BE SHOWN ON SHOP DRAWINGS.

O. SPRINKLER SYSTEM SHALL BE TESTED AND DRAINED PER NFPA STANDARDS AND LOCAL AND STATE AUTHORITY HAVING JURISDICTION.COMPLETED CONTRACTOR MATERIAL TEST CERTIFICATES SHALL BE FORWARDED TO OWNER.

P. FIRE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH FIRE ALARM PANEL AND SUPERVISION OF NEW SPRINKLER TAMPER AND FLOW SWITCHES.

Q. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

R. SPRINKLER HEAD PLACEMENT SHALL BE OUT OF THE SWING AREA OF DOORS TO AVOID CONFLICT WITH TALL DOORS.

FIRE PROTECTION LEGEND

RECONFIGURE EXISTING BASE BUILDING FIRE SPRINKLER LAYOUT WITHIN THIS AREA IN ORDER TO PROVIDE PROPER COVERAGE PER NFPA 13 AND LOCAL AUTHORITIES. ALL REMOVED / RELOCATED FIRE SPRINKLERS MUST BE REPLACED WITH NEW PER NFPA 13. NEW SPRINKLERS TO MATCH EXISTING. REFER TO REFLECTED CEILING PLANS FOR COORDINATION WITH LIGHTS, DIFFUSERS, EXIT SIGNS, ETC.



LIGHT HAZARD - PROVIDE PROPER COVERAGE PER NFPA 13 (0.1 GPM PER 1500 SF) PLUS 100 GPM HOSE STREAM ALLOWANCE.



ORDINARY HAZARD GROUP 1 - PROVIDE PROPER COVERAGE PER NFPA 13 (0.15 GPM PER 1500 SF) PLUS 250 GPM HOSE STREAM ALLOWANCE.



ORDINARY HAZARD GROUP 2 - PROVIDE PROPER COVERAGE PER NFPA 13 (0.2 GPM PER 1500 SF) PLUS 250 GPM HOSE STREAM ALLOWANCE.

PROTECT PAINT BOOTHS WITH AUTOMATIC SPRINKLER SYSTEM DESIGNED IN ACCORDANCE WITH NFPA 13 - 22.4 FOR EXTRA HAZARD (GROUP 2) OCCUPANCIES (0.40/2500 SF) OR AREA OF PAINT BOOTH. PROVIDE SEPARATE CONTROL VALVE FOR FIRE SPRINKLERS THAT IS OPERABLE FROM THE FLOOR LEVEL.



BNIM Architects Architect 2460 East Pershing Road, Suite 100, Jackson County, Kansas City MO 64108 p.816.783.1500 f.816.783.1501 MO State Certificate of Authority #00235006 KH Engineering Group Structural Engineer 13426 West 99th Street, Johnson County, Lenexa, KS 66215 913-825-9381 Certificate of Authority Taliaferro & Browne Civil Engineer 1020 East 8th Street, Jackson County, Kansas City, MO 64106 816-283-2456 Lankford Fendler + Associates MEPF Engineer 1730 Walnut Street, Jackson County, Kansas City, MO 64108 816-221-1411

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> Lee's Summit, Missouri 12/30/2021

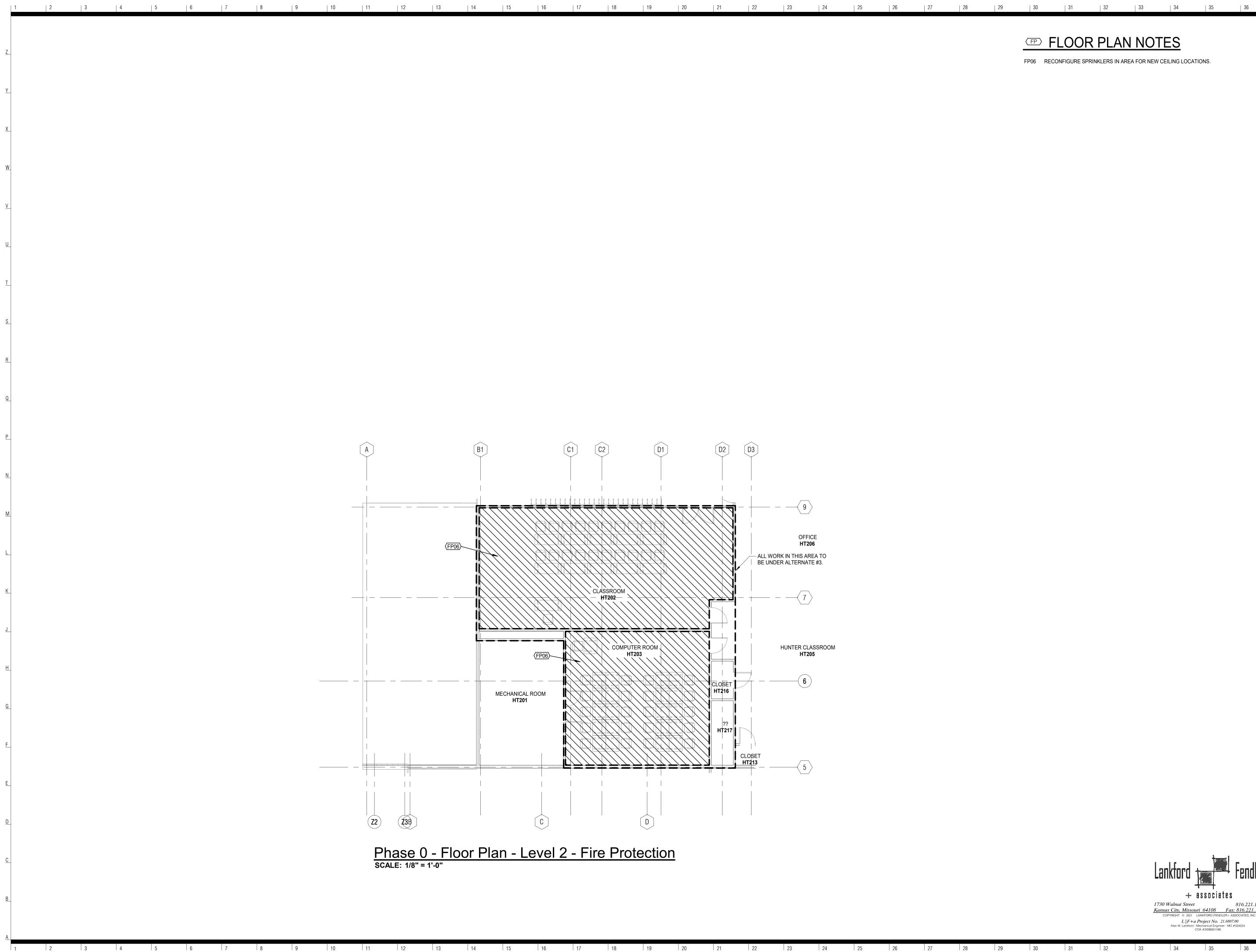
MCC Longview HT Addition/Renovation

500 SW Longview Road Lee's Summit, MO 64081

Project No: 20008.00

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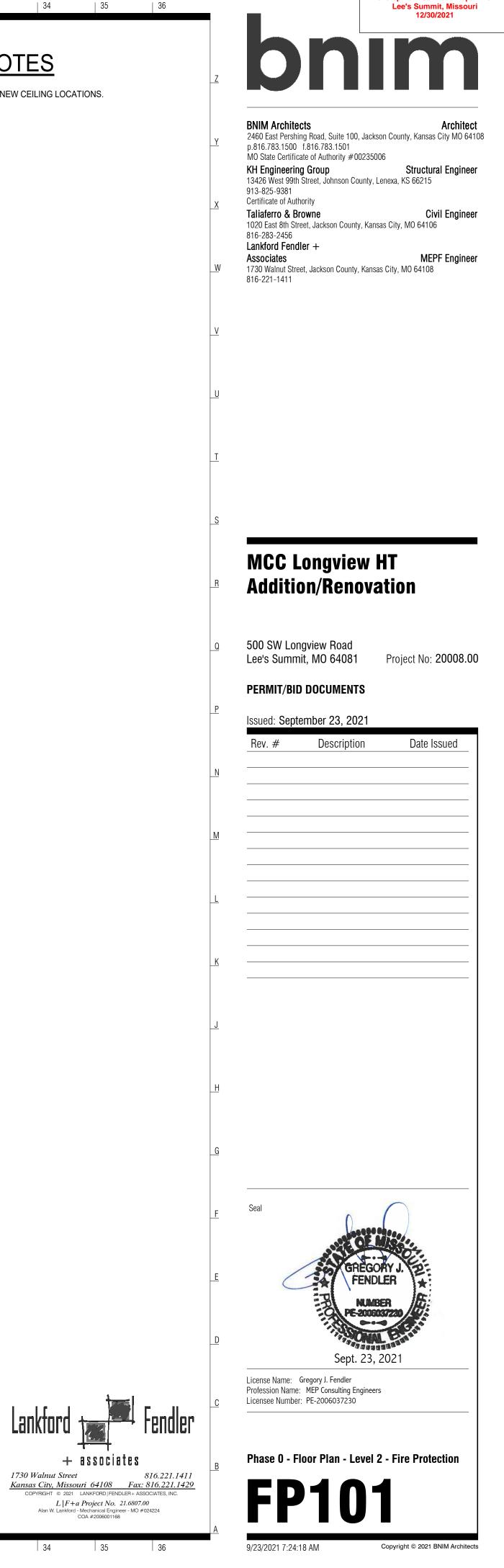
Issued: September 23, 2021 Date Issued Description Rev. # Sept. 23, 202 License Name: Gregory J. Fendler Profession Name: MEP Consulting Engineers Licensee Number: PE-2006037230 Phase 0 - Floor Plan - Level 1 - Fire Protection **FP100** Copyright © 2021 BNIM Architects 9/23/2021 7:24:17 AM



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FP FLOOR PLAN NOTES

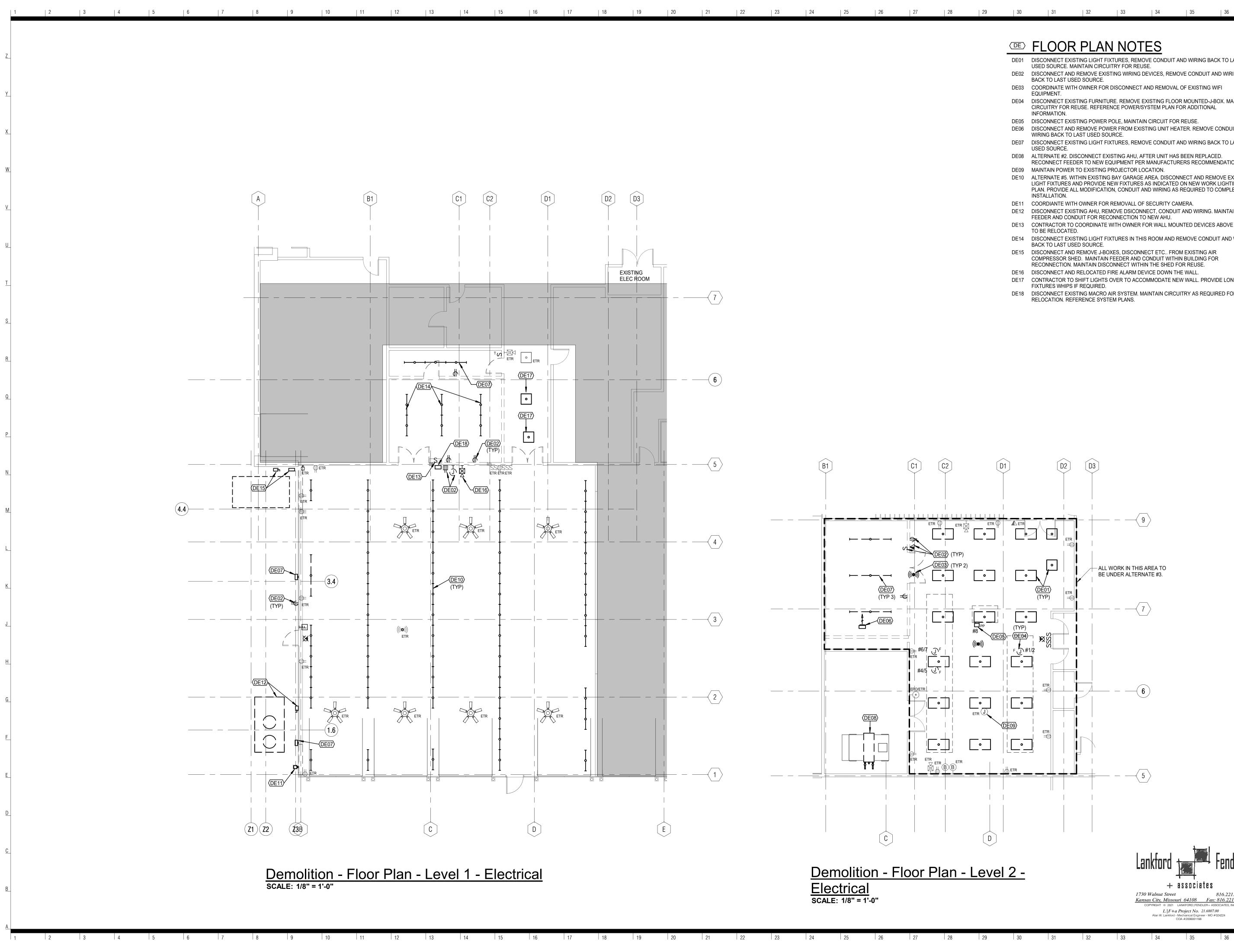
FP06 RECONFIGURE SPRINKLERS IN AREA FOR NEW CEILING LOCATIONS.

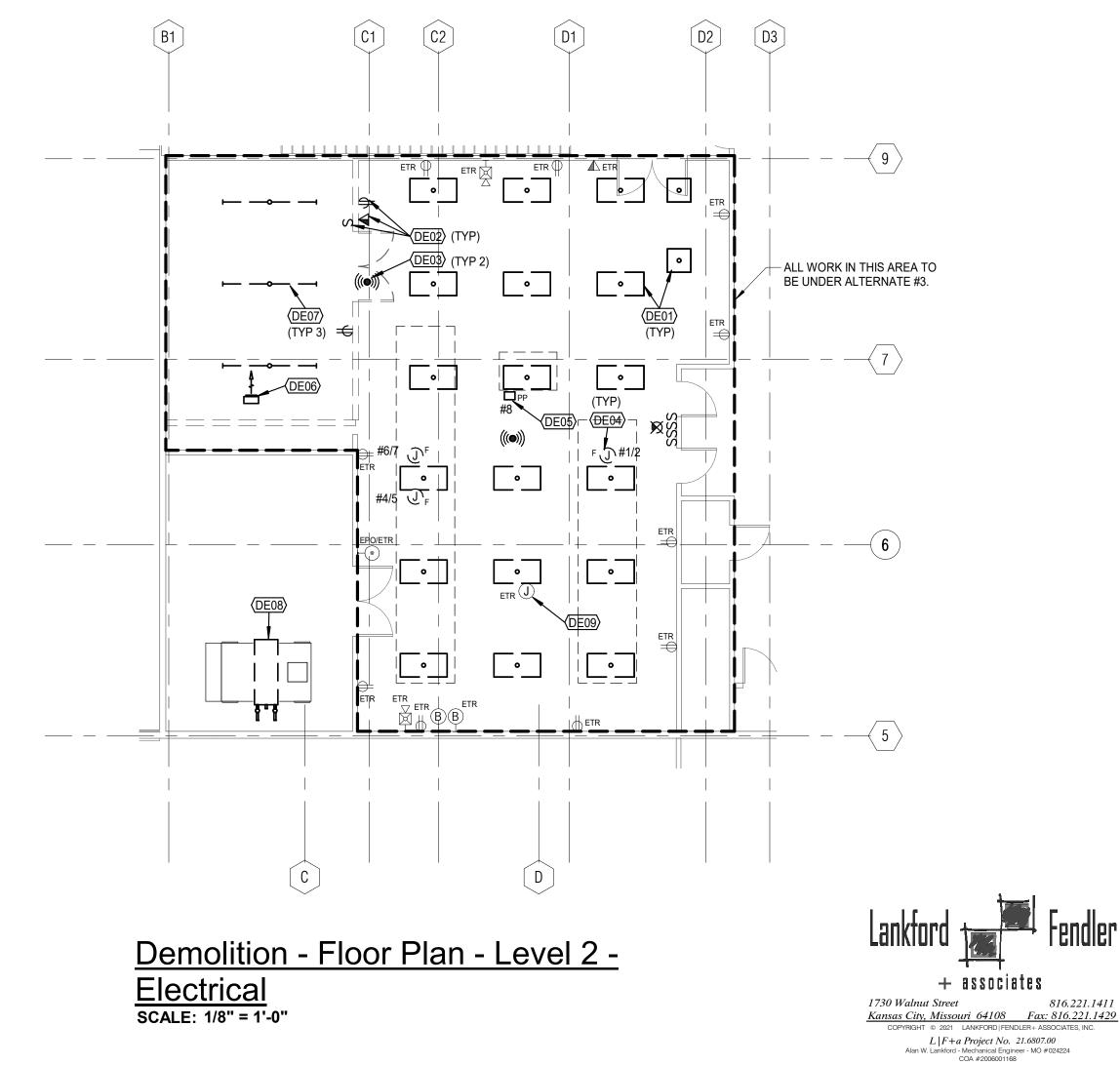


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+ associates

L | F + a Project No. 21.6807.00 Alan W. Lankford - Mechanical Engineer - MO #024224 COA #2006001168





15	16	17	18	19	20	21	22	23	24	25	26	27	28	29

FLOOR PLAN NOTES

- DE01 DISCONNECT EXISTING LIGHT FIXTURES, REMOVE CONDUIT AND WIRING BACK TO LAST USED SOURCE. MAINTAIN CIRCUITRY FOR REUSE. DE02 DISCONNECT AND REMOVE EXISTING WIRING DEVICES, REMOVE CONDUIT AND WIRING
- BACK TO LAST USED SOURCE. DE03 COORDINATE WITH OWNER FOR DISCONNECT AND REMOVAL OF EXISTING WIFI
- EQUIPMENT. DE04 DISCONNECT EXISTING FURNITURE. REMOVE EXISTING FLOOR MOUNTED-J-BOX. MAINTAIN CIRCUITRY FOR REUSE. REFERENCE POWER/SYSTEM PLAN FOR ADDITIONAL INFORMATION.
- DE05 DISCONNECT EXISTING POWER POLE, MAINTAIN CIRCUIT FOR REUSE. DE06 DISCONNECT AND REMOVE POWER FROM EXISTING UNIT HEATER. REMOVE CONDUIT AND WIRING BACK TO LAST USED SOURCE.
- DE07 DISCONNECT EXISTING LIGHT FIXTURES, REMOVE CONDUIT AND WIRING BACK TO LAST USED SOURCE.
- DE08 ALTERNATE #2. DISCONNECT EXISTING AHU, AFTER UNIT HAS BEEN REPLACED. RECONNECT FEEDER TO NEW EQUIPMENT PER MANUFACTURERS RECOMMENDATION. DE09 MAINTAIN POWER TO EXISTING PROJECTOR LOCATION.
- DE10 ALTERNATE #5. WITHIN EXISTING BAY GARAGE AREA. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES AND PROVIDE NEW FIXTURES AS INDICATED ON NEW WORK LIGHTING PLAN. PROVIDE ALL MODIFICATION, CONDUIT AND WIRING AS REQUIRED TO COMPLETE
- INSTALLATION. DE11 COORDIANTE WITH OWNER FOR REMOVALL OF SECURITY CAMERA. DE12 DISCONNECT EXISTING AHU, REMOVE DSICONNECT, CONDUIT AND WIRING. MAINTAIN
- FEEDER AND CONDUIT FOR RECONNECTION TO NEW AHU. DE13 CONTRACTOR TO COORDINATE WITH OWNER FOR WALL MOUNTED DEVICES ABOVE DOOR TO BE RELOCATED.
- DE14 DISCONNECT EXISTING LIGHT FIXTURES IN THIS ROOM AND REMOVE CONDUIT AND WIRING BACK TO LAST USED SOURCE.
- DE15 DISCONNECT AND REMOVE J-BOXES, DISCONNECT ETC.. FROM EXISTING AIR COMPRESSOR SHED. MAINTAIN FEEDER AND CONDUIT WITHIN BUILDING FOR RECONNECTION. MAINTAIN DISCONNECT WITHIN THE SHED FOR REUSE.
- DE16 DISCONNECT AND RELOCATED FIRE ALARM DEVICE DOWN THE WALL.

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- DE17 CONTRACTOR TO SHIFT LIGHTS OVER TO ACCOMMODATE NEW WALL. PROVIDE LONGER FIXTURES WHIPS IF REQUIRED. DE18 DISCONNECT EXISTING MACRO AIR SYSTEM. MAINTAIN CIRCUITRY AS REQUIRED FOR
- RELOCATION. REFERENCE SYSTEM PLANS.

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- 816-283-2456 Lankford Fendler +
- MEPF Engineer Associates 1730 Walnut Street, Jackson County, Kansas City, MO 64108 816-221-1411

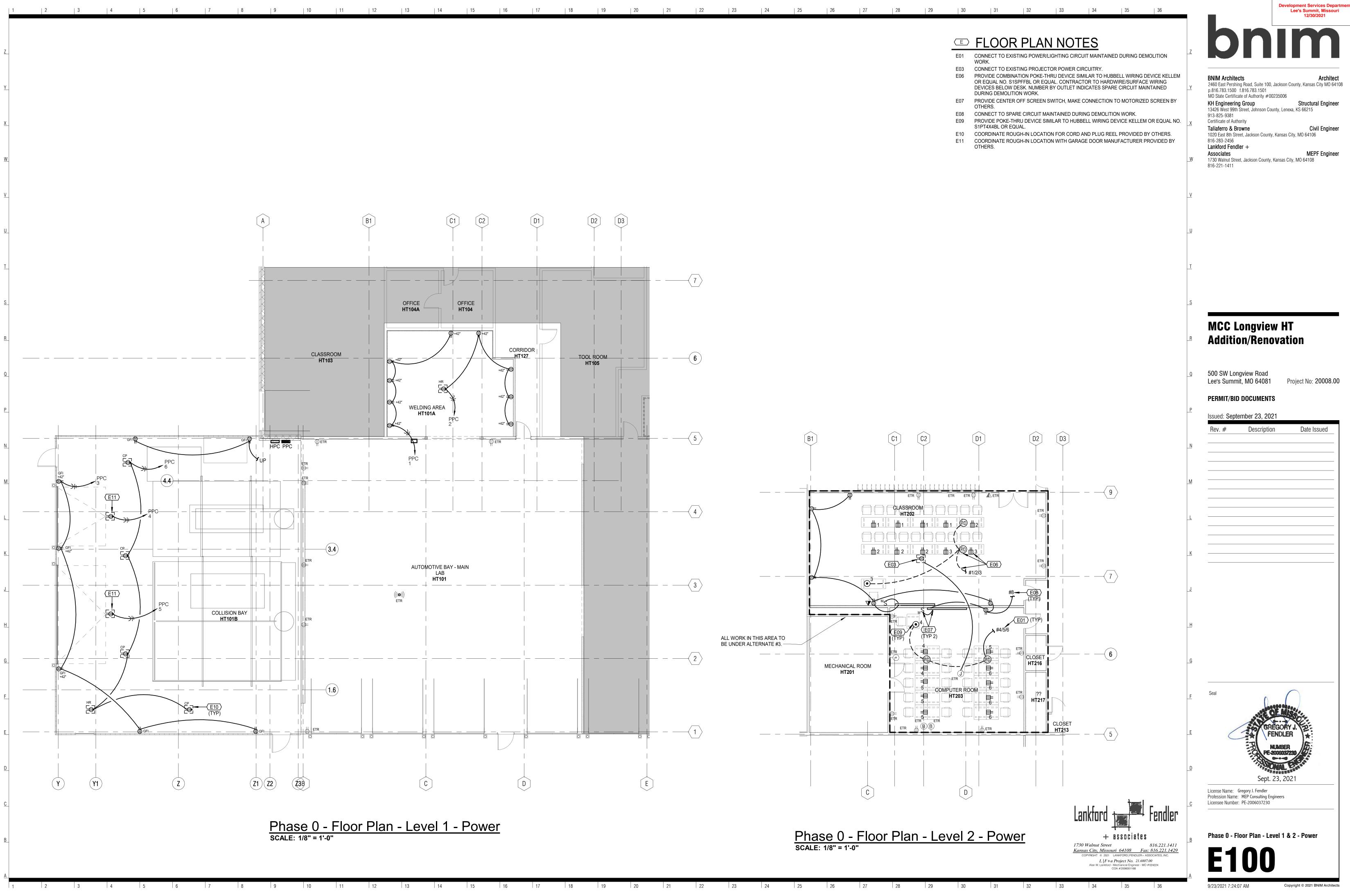
MCC Longview HT **Addition/Renovation**

500 SW Longview Road Lee's Summit, MO 64081

Project No: 20008.00

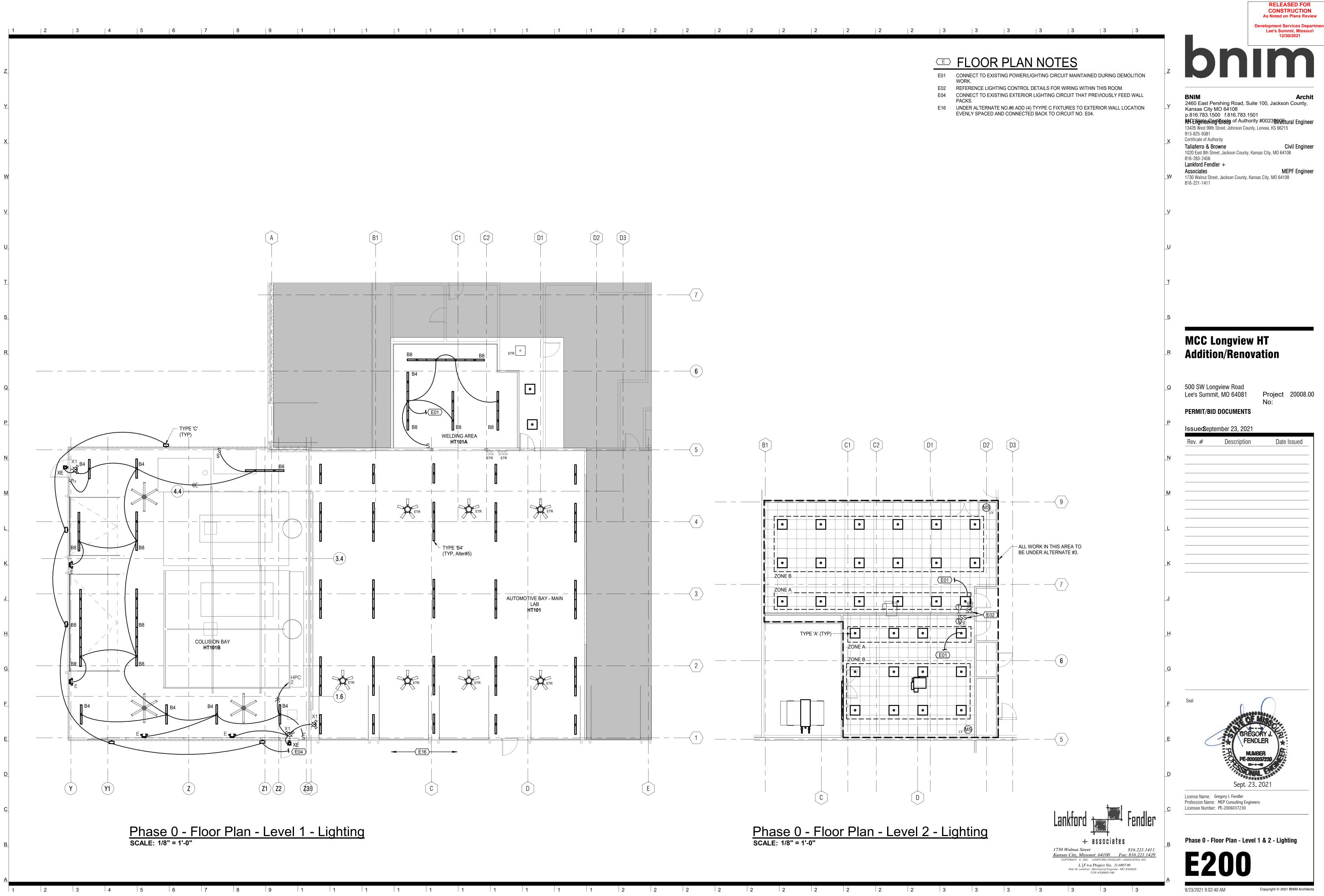
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Issued: September 23, 2021 Date Issued Description Rev. # Sept. 23, 202 License Name: Gregory J. Fendler Profession Name: MEP Consulting Engineers Licensee Number: PE-2006037230 Demolition - Floor Plan - Level 1 & 2 - Electrical **DE100** 9/23/2021 7:24:03 AM Copyright © 2021 BNIM Architects

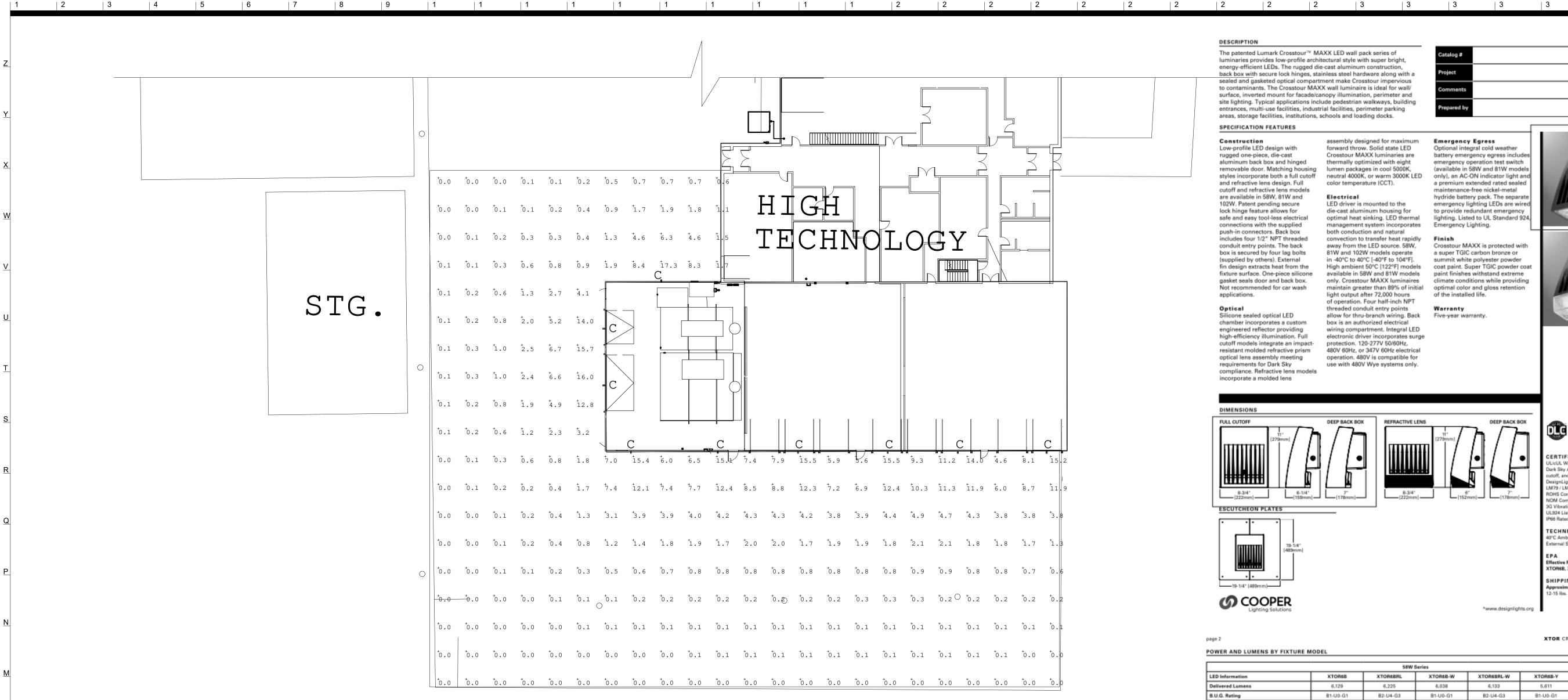


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PHOTOMETRIC PLAN-PAVED AREA SCALE: 1" = 20'-0"

Luminaire Schedule											
Symbol	Description	Tag	LLF	Luminaire	Luminaire	Total					
				Lumens	Watts	Watts					
\rightarrow	COOPER LIGHTING SOLUTIONS -	С	0.950	8502	81	729					
	LUMARK - XTOR8B										

Label	Units	Avg	Max	Min
Paved Area	Fc	2.25	17.3	0.0
PropertyLine	Fc	0.00	0.0	0.0

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DISCLAIMER:

These calculation have been performed according to IES standards and good practice. There may be differences between measured values and results presented herin, based on the extent in which field condition deviate from the input data. All attached drawing(s) images are for photometric reference only.

1

| 1

COOPER POWER AND LUMENS BY FIXTURE MODEL LED Information Delivered Lumens B.U.G. Rating CCT (Kelvin) CRI (Color Rendering Index) Power Consumption (Watts) LED Information **Delivered Lumens** B.U.G. Rating CCT (Kelvin) CRI (Color Rendering Index) Power Consumption (Watts) LED Information Delivered Lumens B.U.G. Rating CCT (Kelvin) **CRI (Color Rendering Index)** Power Consumption (Watts) EGRESS Information **Delivered Lumens** B.U.G. Rating CCT (Kelvin) CRI (Color Rendering Index) ower Consumption (Watts) LUMEN MAINTENANCE Ambient TM-21 Lumen Maintenance (72,000 Hours) oretical L7 (Hours) XTOR68 Model
 25°C
 > 90%
 246,000

 40°C
 > 88%
 217,000

 50°C
 > 88%
 201,000
 XTOREB Model

DESCRIPTION

SPECIFICATION FEATURES

Low-profile LED design with

rugged one-piece, die-cast

aluminum back box and hinged

and refractive lens design. Full

cutoff and refractive lens models

are available in 58W, 81W and

safe and easy tool-less electrical

includes four 1/2" NPT threaded

connections with the supplied

push-in connectors. Back box

conduit entry points. The back

box is secured by four lag bolts

(supplied by others). External

gasket seals door and back box.

Not recommended for car wash

Silicone sealed optical LED

chamber incorporates a custom

engineered reflector providing

high-efficiency illumination. Full

optical lens assembly meeting

requirements for Dark Sky

incorporate a molded lens

MENSIONS

8-3/4*

ESCUTCHEON PLATES

FULL CUTOFF

applications.

Optical

102W. Patent pending secure

lock hinge feature allows for

Construction

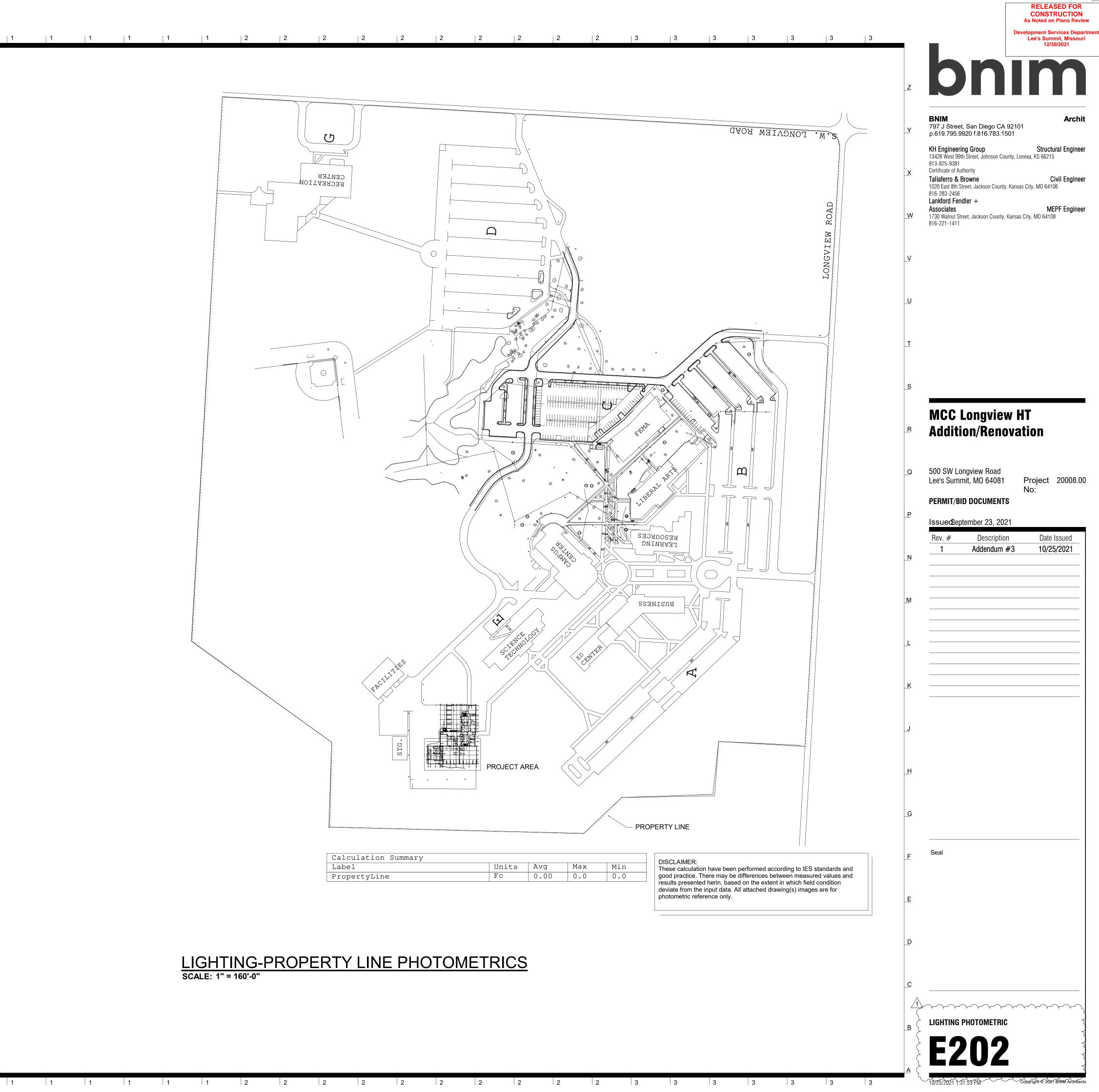
				_		
26°C	>	89%	218,000			
40°C	>	87%	195,000			
50°C	>	86%	181,000			
XTOR12B	Model					
25°C	>	89%	222,000			
40°C	>	87%	196,000			
CURREN	T DRAW					
			Mode	4		
Marken and				_		
Voltage	XTOR68	XTOR	8 XTOR128			
Voltage 120V	XTOR68 0.51	XTOR8 0.71	8 XTOR128			
120V	0.51	0.71	0.94			
120V 208V	0.51	0.71	0.94			
120V 208V 240V	0.51 0.25 0.25	0.71 0.39 0.35	0.94 0.52 0.45			
120V 208V 240V 277V	0.51 0.25 0.25 0.22	0.71 0.39 0.35 0.31	0.94 0.52 0.45 0.39			

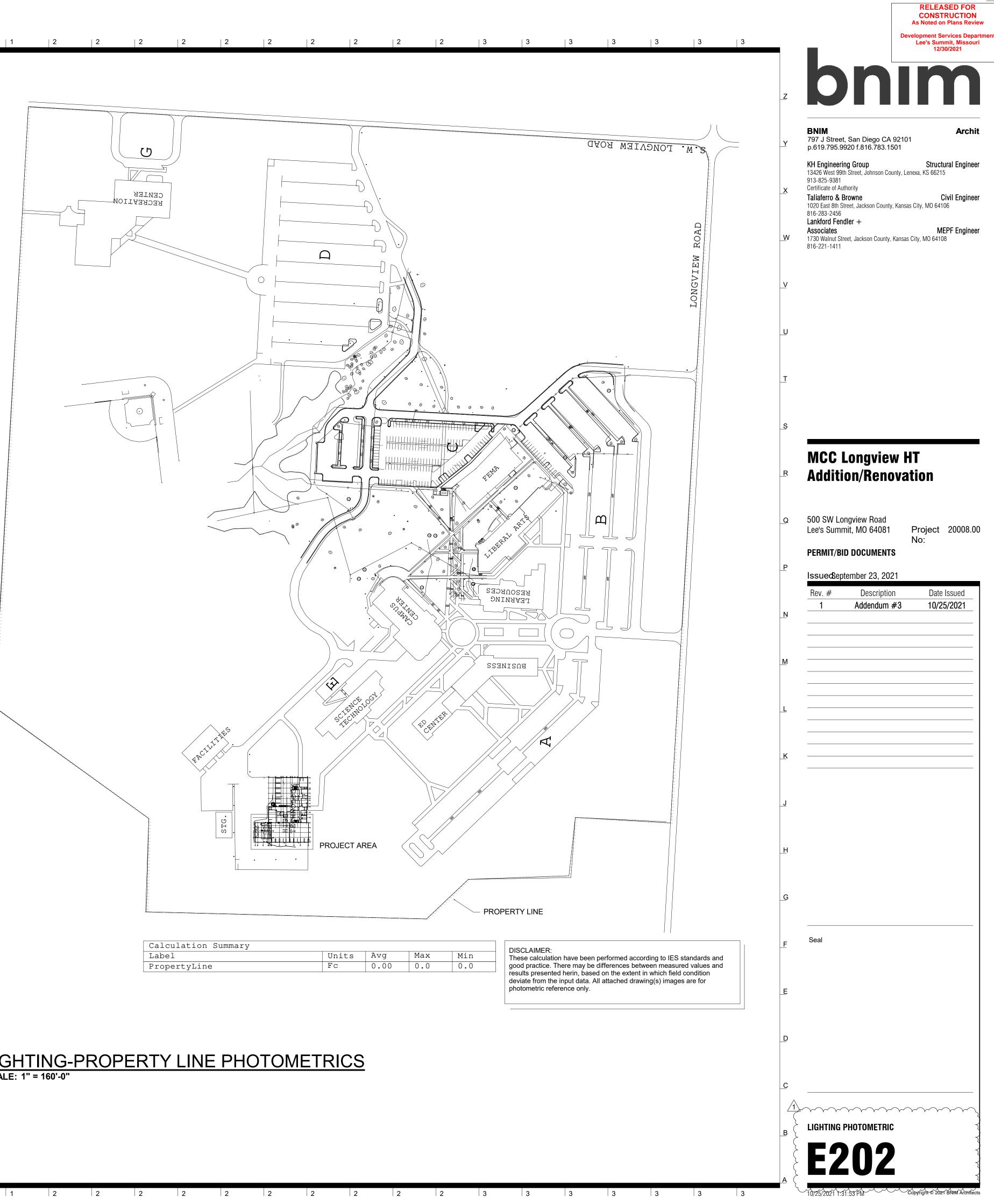
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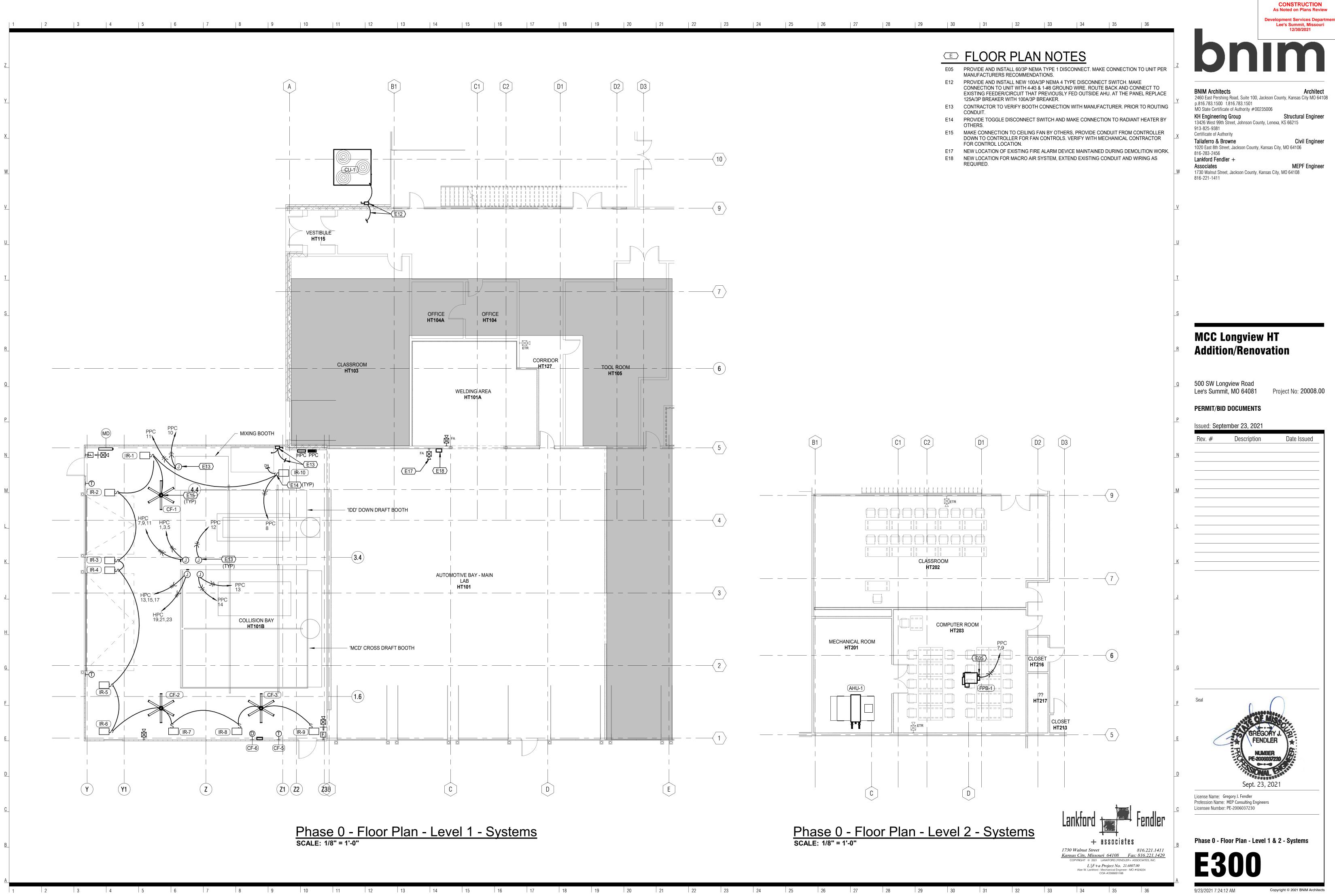


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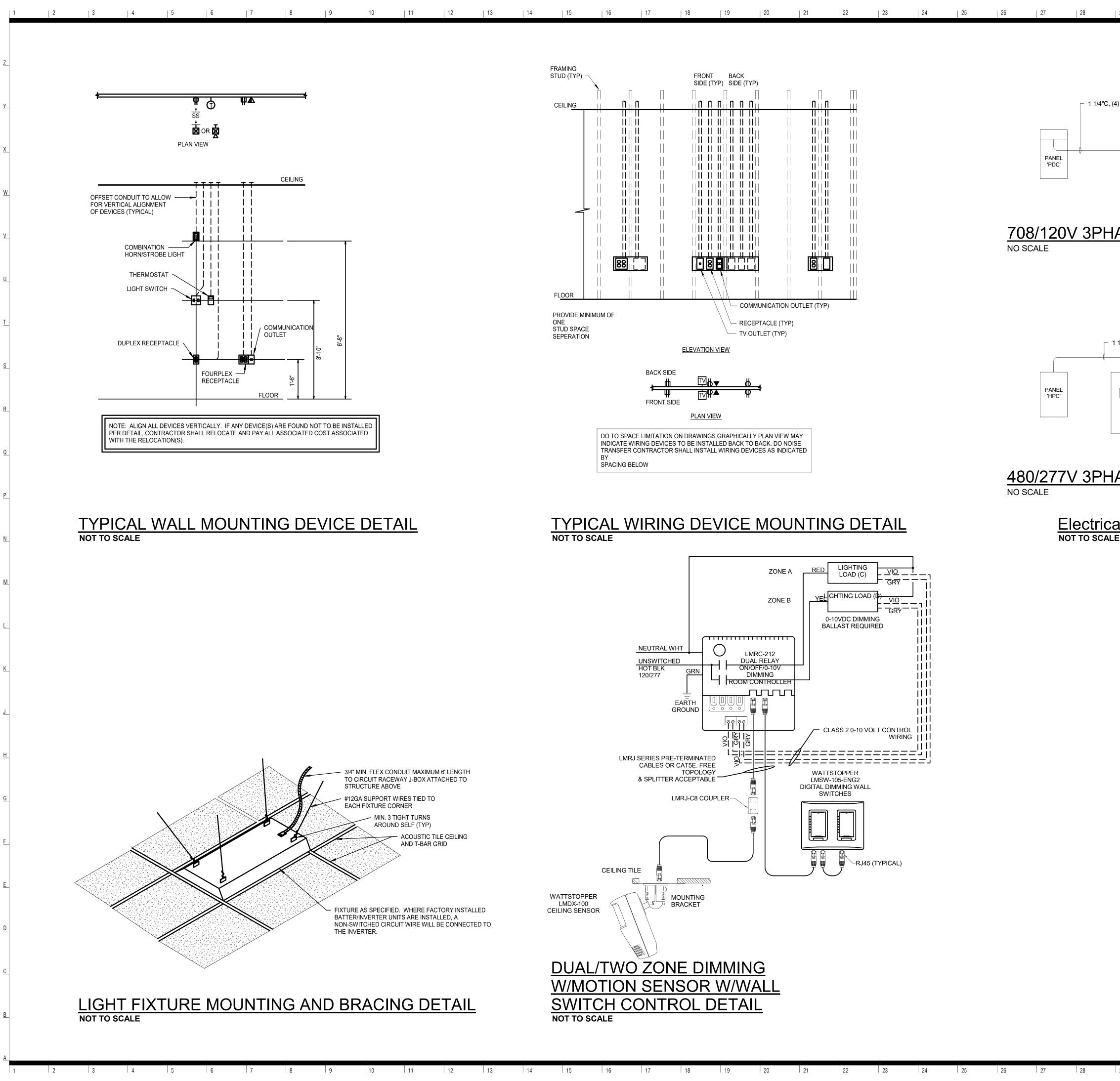
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4) #3 & (1) #	8 GROUND WIR	E					Y	BNIM Architects Architect 2460 East Pershing Road, Suite 100, Jackson County, Kansas City MO 64108 p.816.783.1500 f.816.783.1501 MO State Certificate of Authority #00235006
		EXISTING 208/120 3¢ DISTRIBUTION PANEL.	DV, I					KH Engineering Group 13426 West 99th Street, Johnson County, Lenexa, KS 66215 913-825-9381
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	I	EXISTING 100A FUSED BUCKET						816-221-1411
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1/4"C, (4) #	3 & (1) #8 GROL	IND WIRE						
	AND INS METAL F AND INS	E EXISTING COVER TALL (2) 100A USED BUCKETS TALL ONE SET OF					S	
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							E	GREGORY J. FENDLER PE-2006037230
					·			Sept. 23, 2021 License Name: Gregory J. Fendler Profession Name: MEP Consulting Engineers
				Lankford		Fendler	<u> C</u>	Licensee Number: PE-2006037230
				1730 Walnut Street Kansas City, Missou		816.221.1411 : 816.221.1429	B	
				L F+a Alan W. Lankford - N	ANKFORD FENDLER+ AS Project No. 21.6807. Alechanical Engineer - MO # OA #2006001168		A	E400
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	E	Branc	h Panel: HPC Location: COLLISIC Supply From: Mounting: Surface		3			Volts: Phases: Wires:		Wye				A.I.C. Ra Mains T Mains Ra
Notes:			Enclosure: Type 1											
						Α	В	с	Α	В	с			
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Load C	lassific	cation		Со	nnected L	oad	De	mand Fa	ctor	Estin	nated De	mand		
Heating	Resist	ance			62700 VA	1		125.00%	ó		78375 V	Ą		
Lighting)				572 VA			125.00%			716 VA			Total
Other Power					6 VA 0 VA			100.00%			6 VA 0 VA			Total C Total D
Fower					UVA			0.00 /0			UVA			Pov
														Total Dem
	NC	2. 3.	DVIDE SHUNT-TRIP TYPE C											
GENER	RAL NO	4. 5. DTES:												

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BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART

OVERCURRENT PROTECTION DEVICE RATING (AMPS)	REQUIRED CONDUCTOR SIZE	EQUIPMENT GROUNDING CONDUCTOR SIZE	SINGLE PHASE 2 WIRE + GND. CONDUIT SIZE	SINGLE PHASE 3 WIRE + GND. CONDUIT SIZE	THREE PHASE 3 WIRE + GND. CONDUIT SIZE	THREE PHASE 4 WIRE + GND. CONDUIT SIZE
15	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
20	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
25	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
30	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
35	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
40	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
45	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
50	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
60	4 AWG	10 AWG	1"	1"	1"	1-1/4"
70	4 AWG	8 AWG	1"	1"	1"	1-1/4"
80	3 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
90	2 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
100	1 AWG	8 AWG	1-1/4"	1-1/2"	1-1/2"	1-1/2"

* = UNLESS OTHERWISE NOTED ON THE DRAWINGS.

* = UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL BRANCH CIRCUITS AND FEEDERS TO BE PROVIDED WITH A NEUTRAL WIRE.

* ALL CONDUCTORS SIZED ON THE POWER RISER DIAGRAM OR IN BRANCH CIRCUIT CONDUCTOR TABLE ARE BASED ON 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY OR CABLE. CONDUCTORS SHALL BE DERATED IN ACCORDANCE WITH THE NEC IF 4 OR MORE CONDUCTORS ARE PLACED IN A RACEWAY OR CABLE.

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		Circuit Description Trip Poles		в			Balaa Trin			0//7				
tes CK		20 A	Poles	0.9			0.9			Poles 1	Trip 20 A	Circuit Description REC; WELDING AREA	CKT 2	Notes
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5	5 REC; COLLISION BAY GARAGE D		1			0.5			0.9	1	20 A	REC; COLLISION BAY CORD AND PLUG	6	
7		20 A	2	2.5			0.78			1		IR-1 - IR-10	8	
9	9				2.5	-		13.8		1		MIXING BOOTH	10	
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		RELEASED FOR
		CONSTRUCTION
		As Noted on Plans Review
		Development Services Departmen Lee's Summit, Missouri 12/30/2021
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Y	2460 East Pershing Road, Suite 100, Jackson County, Kansas City MO 64108 p.816.783.1500 f.816.783.1501 KHCEngniecringtigroup of Authority #00235006tural Engineer 13426 West 99th Street, Johnson County, Lenexa, KS 66215
x	913-825-9381 Certificate of Authority Taliaferro & Browne 1020 East 8th Street, Jackson County, Kansas City, MO 64106 816-283-2456
_ <u>w</u>	Lankford Fendler + Associates MEPF Engineer 1730 Walnut Street, Jackson County, Kansas City, MO 64108 816-221-1411
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<u>_</u> S	MCC Longview HT
<u>_</u> R	Addition/Renovation
Q	500 SW Longview Road Lee's Summit, MO 64081 Project 20008.00 No:
Р	PERMIT/BID DOCUMENTS
	IssuedSeptember 23, 2021 Rev. # Description Date Issued
N	1 Addendum #3 10/25/2021
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C	License Name: Gregory J. Fendler Profession Name: MEP Consulting Engineers Licensee Number: PE-2006037230
B	ELECTRICAL SCHEDULES
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 LANKFORD | FENDLER+ ASSOCIATES, INC.

L | F + a Project No. 21.6807.00 Alan W. Lankford - Mechanical Engineer - MO #024224 COA #2006001168

10/25/2021 1:31:53 PM

LIGHT FIXTURE SC TYPE MANUFACTURER			MMING DESCRIPTIC	ON			1
A METALUX ENCOUNTER 22EN LED NO.22EN-LD2-34-UNV-L840-CD- OR EQUAL	LED 4000K	28.5		ED LE LIGHT FIXTURE, WHITE TR	IM, FROSTED LENS.		
B4 METALUX SNLED NO.4T37SL-LN-UNV-L840 OR EQUAL	LED 4000K	28UNV	NO 4' LONG LED 3	STRIP FIXTURE, ROUND SEMI-FR	ROSTED LENS, PROVIDE WITH AYC C	OPTION.	
B8 METALUX SNLED NO.8T83SL-LN-UNV-L840 OR EQUAL	LED 4000K	61	NO SIMILAR TO T	TYPE B4, EXCEPT 8' LONG.			
C LUMARK - XTOR SERIES NO.XTOR8B-W-BZ-PC2-CBP OR EQUAL	LED 4000K	81 UNV	NO EXTERIOR W	ALL MOUNTED LED LIGHT FIXTU	RE, BRONZE FINISH, PHOTO-CELL C	ONTROLLED.	
E SURE-LITE NO.AP2SQLED OR EQUAL	LED	3 	NO WALL MOUNT	TED LED EMERGENCY LIGHT, WH	HTE HOUSING.		
X1 SURE-LITE NO.APC-H-7-R-SQ OR EQUAL.	LED	3.8 UNV	NO COMBO EXIT	AND EMERGENCY LIGHT, WHITE	E HOUSING, LED HEADS. 3 WATT REM	MOTE CAPACITY	
XE SURE-LITE NO. SRM25 OR EQUAL	LED		NO REMOTED EN	MERGENCY LIGHTS, ALUMINUM H	HOUSING, POWERED FROM TYPE X1	FIXTURE.	
SPECIFIC NOTES:							
DIMENSIONS, MATERIAL COMPOSITION TO BE PROVIDED UPON REQUEST. S3. GREAT CARE, TIME AND EXPENSE HAY THEREFORE, FOR EACH AND EVERY T CONTRACTOR FOR REVIEW OF THE A THE ENGINEER FOR TIME SPENT VALI RECEIVED BY THE ENGINEER PRIOR T S4. PACKAGING OF LIGHT FIXTURES WILL S5. MANUFACTURER'S REPRESENTATIVE S6. LIGHTING CONTROLS PRICING SHALL IS SUBMITTED WITH LIGHT FIXTURE P	VE BEEN USED TO PROVIDE TYPE OF FIXTURE OFFERED ALTERNATE FIXTURE. THIS C IDATING EQUALITY AND COM TO ANY REVIEW COMMENCI NOT BE CONSIDERED OR A AGENTS SHALL BE ALLOWE BE COMPLETELY SEPARATI	E OUR CLIENT WITH THE LIGHTIN O AS AN UNSOLICITED ALTERNAT CHARGE IS IN NO WAY A GUARAN MPATIBILITY WITH THE PROJECT ING. APPROVED. ED TO OFFER MINI-LOT PRICING TE OF ANY LIGHT FIXTURE PRICIN	G AND CONTROLS SYSTEM. E, A \$500.00 FEE WILL BE CHA ITEE OF APPROVAL, BUT IS SO REQUIREMENTS. THIS REIME FOR SPECIFIED LIGHTING FIX IG. ANY LIGHTING CONTROLS	ARGED TO THE OLELY TO COMPENSATE BURSEMENT MUST BE KTURES.			
GENERAL NOTE: G1. ELECTRICAL CONTRACTOR SHALL VE				L INCLUDE ALL REQUIRED CONTI	ROL WIRING.		
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GENERAL NOTES (TYPICAL ALL SHEETS)

A. REFER TO ARCHITECTS REFLECTED CEILING PLANS FOR EXACT PLACEMENT OF LIGHT FIXTURES, SPEAKER AND F.A. DEVICES IN THE CEILING SYSTEM.

B. REFER TO ARCHITECTURAL DETAILS AND ELEVATIONS FOR COORDINATION OF LOCATION OF ALL WIRING DEVICES BEFORE ROUGH-IN OF J-BOXES.

C. REFER TO ARCHITECTURAL PLANS FOR DETAIL OF ALL CONDUIT THRU ROOF PENETRATIONS.

D. ALL JUNCTION BOXES FOR RECEPTACLES SHALL BE EVENLY SPACED ALONG WALL. E. CONTRACTOR SHALL CONNECT EXISTING 120V LIGHTS AND RECEPTACLES TO SPARE

20A/1P CIRCUIT BREAKER(S) IN NEW PANELBOARD. LABEL CIRCUIT BREAKER WITH CORRECT IDENTIFICATION.

F.INSTALL BLANK COVERPLATE ON ALL OPEN OR ABANDONED DEVICE BOXES. VERIFY COLOR WITH ARCHITECT.

G. WIRING TO BE REMOVED BACK TO THE NEAREST DEVICE TO REMAIN. WIRING SHALL NOT BE TAKEN PAST THE FIRST JUNCTION BOX BEFORE THE PANELBOARD.

H. ANY MATERIAL REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED FROM PROJECT SITE AND DISPOSED OF BY THE CONTRACTOR.

I. NEW CIRCUITRY SHOWN FOR NEW/EXISTING POWER AND LIGHTING IS DIAGRAMMATIC AND IS INTENDED TO SHOW WHICH DEVICES ARE TO BE GROUPED ON INDIVIDUAL CIRCUITS. EXISTING WIRING THAT CONFORMS TO THE INTENT OF THE DRAWINGS MAY BE USED.

J. PROVIDE UPDATED, TYPEWRITTEN PANELBOARD DIRECTORY FOR EACH PANELBOARD WHICH CIRCUITS HAVE BEEN ADDED TO OR MODIFIED.

K. CONTRACTOR TO REFERENCE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR SIZING OF BRANCH CIRCUITS AND OR FEEDERS AT OR BELOW 100AMPS.

L. SUPPORT ALL LIGHT FIXTURES WITH A MINIMUM OF (2) 12 GA. HANGER WIRES TO STRUCTURE ABOVE.

M. CONNECT EXIT AND EMERGENCY LIGHTS TO HOT LEG, NOT SWITCH LEG.

N. LOCATE ALL IN SLAB REBAR PRIOR TO CORE DRILLING AND SHALL ADJUST CORE LOCATIONS AS TO AVOID REBAR. PROVIDE MINIMUM SPACING BETWEEN CORE DRILL LOCATIONS AS REQUIRED BY POKE THROUGH DEVICE UL LISTING. ALL CORE DRILLING AND WORK DONE BELOW FLOOR SHALL BE DONE AFTER HOURS.

O. COORDINATE INSTALLATION REQUIREMENTS AND SCHEDULING OF ALL SYSTEM FURNITURE WITH FURNITURE INSTALLER.

P. LIGHTING INDICATED ABOVE EXIT DISCHARGE DOOR IS FOR MEANS OF EGRESS ILLUMINATION PER IBC 1006.1.

Q. CONTRACTOR SHALL CALCULATE VOLTAGE DROP AND SIZE WIRE ACCORDINGLY. PER N.E.C.

R. PROVIDE 3'-0" CLEARANCE IN FRONT OF DISCONNECTS TO CONDENSING UNITS.

S. CONTRACTOR SHALL PROVIDE FIRE RATED ENCLOSURES AROUND ALL ROUGH-IN BOXES, PANELS ETC. THAT ARE LOCATED IN FIRE RATED WALLS AND SHALL FIRE CAULK ALL OPENING IN RATED ASSEMBLES PER MANUFACTURERS RECOMMENDATIONS PER FIRE RATED ASSEMBLES.

T.INSTALL FIRE ALARM DEVICES THAT COMPLY WITH APPLICABLE CODES. INCLUDING BUT NOT LIMITED TO, NFPA, UL, ADA, IBC OR ANY OTHER AUTHORITIES HAVING JURISDICTION.

U. WHERE MORE THAN ONE SWITCH IS INDICATED ON DRAWINGS SIDE BY SIDE, CONTRACTOR SHALL INSTALL SWITCHES UNDER ONE COMMON FACE PLATE.

V. CONTRACTOR MAY NOT WIRE SO FIRST GFI OUTLET PROTECTS ALL DOWN STREAM OUTLETS.

W. ELECTRICAL CONTRACTOR SHALL SCAN FLOOR UTILIZING GROUND PENETRATING RADAR PRIOR TO ANY CORE DRILLING OR SAW CUTTING OF SLAB AND SHALL VERIFY PLACEMENT WITH BUILDING OWNER'S REPRESENTATIVE PRIOR TO DRILLING.

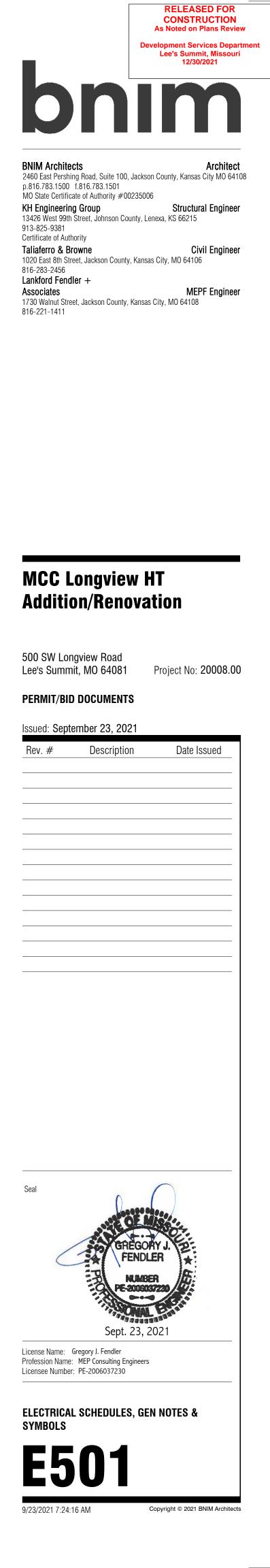
X.CONTRACTOR SHALL BE RESPONSIBLE FOR THE RECONNECTION OF ALL EXISTING ELECTRICAL LOADS, WHICH ARE TO REMAIN, TO NEW ELECTRICAL DISTRIBUTION SYSTEM.

Y.WHERE THE DRAWINGS INDICATE DEDICATED CIRCUITRY WITH NO SHARED NEUTRALS, THE CONTRACTOR SHALL NOT INSTALL MULTI-WIRE BRANCH CIRCUITS WITH A COMMON NEUTRAL.

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ELECTRICAL SYMBOLS

	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL, ARROWS
	INDICATED HOMERUNS TO PANEL, ALL CONDUCTORS ARE NOTED IN PANEL SCHEDULE
	- PHASE CONDUCTORS - NEUTRAL CONDUCTORS
LP1-10	- GROUND CONDUCTORS PANEL - BREAKER NUMBER (IDENTIFICATION)
1,3 OR 1,3,5	INDICATES X,X= 2-POLE C.B. OR X,X,X= 3-POLE C.B.
	HOMERUN INDICATED LIKE THIS INDICATES THREE SEPARATE CIRCUITS
→ →	CONDUIT CONCEALED IN CEILING OR WALL WITH THREE CONDUCTORS: 1-PHASE, 1-NEUTRAL, 1-GROUND WIRE, MINIMUM
	NO.12 WIRE UNLESS OTHERWISE SPECIFIED ON PLANS
	CONDUIT RUN UNDERGROUND OR CONCEALED IN FLOOR SLAB
\longrightarrow	GROUNDING CONDUCTOR, MINIMUM NO. 12 WIRE EXCEPT AS NOTED
18 OR 18	EXIT SIGN, SINGLE FACED, ARROWS AS SHOW ON PLANS, SHADED SIDE(S) INDICATES FACE SIDE(S) OF EXIT
R CR	COMBINATION EXIT SIGN/EMERGENCY LIGHTING UNIT, CEILING OR WALL MOUNTED, SHADED SIDE(S) INDICATES FACE SIDE(S) OF EXIT
• О ¬ ог у 2	CEILING OR WALL MOUNTED EMERGENCY LIGHTING UNIT
	WITH INTEGRAL BATTERY AND UNIT MOUNTED HEADS FLUORESCENT LIGHT FIXTURE; LETTER DENOTES FIXTURE TYPE
	FLUORESCENT STRIP FIXTURE
	WALL MOUNTED LIGHT FIXTURE, SIZE AND TYPE AS NOTED
Ž Ž T T	MOTOR
	208Y/120V OR 120/240V PANELBOARD (SURFACE), TOP MOUNTED 6'-0" AFF
	480/277V PANELBOARD (SURFACE), TOP MOUNTED 6'-0" AFF
	DISTRIBUTION PANEL (SURFACE OR FLOOR MOUNTED)
	SURFACE MOUNTED EQUIPMENT, TYPE AS INDICATED ON PLANS
• □•	POWER CONNECTION POINT DISCONNECT SWITCH, SIZE AND TYPE AS NOTED, TOP MOUNTED 5'-0" AFF
S	SINGLE POLE SWITCH, +3'-10" AFF TO CENTERLINE OF DEVICE BOX
S ³	THREE-WAY SWITCH, +3'-10" AFF TO CENTERLINE OF DEVICE BOX
S ^{MS}	MOTION SENSOR SWITCH, +3'-10" AFF TO CENTERLINE OF DEVICE BOX
S ^{LV}	LOW VOLTAGE SWITCH +4'-0" AFF TO CENTERLINE OF DEVICE BOX.
⊢ ⊙ #	PUSH BUTTON, +3'-10" AFF
⊕	DUPLEX RECEPTACLE, +1'-6" AFF OR AS NOTED DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP
₽ ^{WP}	GFI DUPLEX RECEPTACLE WITH WEATHERPROOF PLATE, HEIGHT AS NOTED
₩ G ^{GFI}	DUPLEX RECEPTACLE W/GROUND FAULT PROTECTION,+1'-6" AFF OR AS NOTED
Щ	DOUBLE DUPLEX RECEPTACLE, +1'-6" AFF OR AS NOTED
<u>ه</u>	DUPLEX RECEPTACLE MOUNTED IN CEILING TILE OR CEILING.
•	ROUND POKE-THRU WITH TYPE INDICATED, SEE SPECS.
MS	CEILING MOUNTED MOTION DETECTOR TYPE AS INDICATED.
	POWER POLE
()) OR ()) ◀	WALL OR CEILING MOUNTED JUNCTION BOX DATA/VOICE OUTLET WITH 3/4" CONDUIT STUBBED UP OUT OF
	BOX TO ABOVE ACCESSIBLE CEILING, +1'-6" AFF OR AS NOTED
н <mark>⊠</mark>	FIRE ALARM STROBE LIGHT, +6'-8" AFF
HØQ	FIRE ALARM COMBINATION AUDIBLE/VISUAL WALL MOUNTED, +6'-8" AFF
HE	FIRE ALARM MANUAL PULL STATION, +3'-10" AFF
PD	FIRE RATED THRU FLOOR COMBINATION POKE THRU FURNITURE FEED POWER/DATA, TYPE AS NOTED ON DRAWING.
X	MECHANICAL EQUIPMENT CALL OUT
+4'-0"	HEIGHT TO CENTERLINE OF OUTLET BOX ABOVE FINISHED FLOOR
AFF ETR	ABOVE FINISHED FLOOR EXISTING TO REMAIN
FA	FIRE ALARM
PA	PUBLIC ADDRESS
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