MCC Longview HT Addition/Renovation PERMIT/BID DOCUMENTS





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 Group Structural Engineer 13426 West 99th Street, Johnson County, Lenexa, KS 66215

913-825-9381 Certificate of Authority Civil Engineer

Taliaferro & Browne

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

Date Issued

PERMIT/BID DOCUMENTS

Issued: September 23, 2021

Rev. #

Description

COVER SHEET



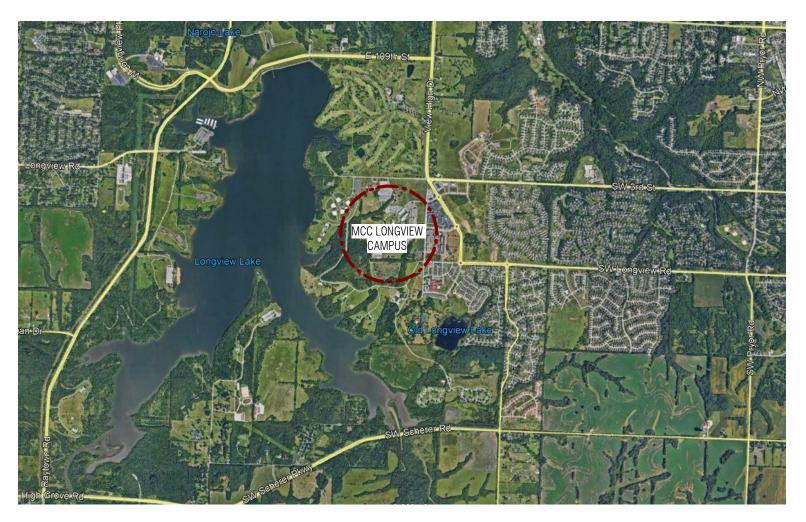
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	GENERAL NOTES		
1.	THESE GENERAL NOTES APPLY TO ALL TRADES. THESE NOTES ARE PROVIDED FOR GENERAL PROJECT INFORMATION AND ARE TO BE APPLIED TO ALL AREAS OF THE PROJECT WHERE WORK IS BEING UNDERTAKEN.		SHEET INDEX
2.	ALL WORK SHALL COMPLY WITH APPLICABLE LAWS, CODES, AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION IN FORCE AT	#	Sheet Name
3	TIME OF CONSTRUCTION. IN CASE OF CONFLICT BETWEEN REQUIREMENTS, THE MOST RESTRICTIVE SHALL APPLY. UPON EXAMINATION/FAMILIARIZATION WITH THE CONTRACT DOCUMENTS AND JOB SITE VISIT, ANY DISCREPANCIES, OMISSIONS,	GENERAL	
0.	AMBIGUITIES AND/OR CONFLICTS SHALL BE REPORTED TO THE ARCHITECT IN WRITING FOR CORRECTION PRIOR TO SUBMISSION OF BID OR	G000 G001	COVER SHEET SHEET INDEX, PROJECT INFORMATION & GENERAL NOTES
Л	EXECUTION OF CONSTRUCTION CONTRACT. THE CONTRACTOR SHALL ADHERE TO THE CONTRACT DOCUMENTS. NO MODIFICATIONS, REVISIONS OR CHANGES SHALL BE UNDERTAKEN	G101	CODE REVIEW DATA, LIFE SAFETY PLANS
т.	UNLESS SPECIFICALLY INSTRUCTED AND APPROVED.	CIVIL	
5.	ALL WORK LISTED, SHOWN OR IMPLIED IN THE CONTRACT DOCUMENTS SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR EXCEPT WHERE NOTED OTHERWISE. CONTRACTORS SHALL CLOSELY COORDINATE THEIR WORK WITH THE WORK OF OTHER CONTRACTORS AND	C001 C002	SITE LAYOUT PLAN SITE GRADING PLAN
	VENDORS TO ASSURE THAT ALL WORK IS PERFORMED IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.	TS001	SITE SURVEY
6.	COORDINATE THE REQUIREMENTS OF ALL DRAWINGS AND SPECIFICATIONS. EACH CONTRACTOR AND/OR SUBCONTRACTOR SHALL BE PROVIDED WITH A FULL SET OF CONSTRUCTION DOCUMENTS TO ENSURE COORDINATION OF ALL TRADES/DISCIPLINES. CONFLICTS SHALL	ARCHITECTURAL DEMOLITI	F
	BE REPORTED TO THE OWNER AND ARCHITECT PRIOR TO THE EXECUTION OF THE WORK.	D100 D101	ARCHITECTURAL DEMOLITION PLANS DEMOLITION PHOTOGRAPHS
7.	ALL CONTRACTORS, SUBCONTRACTORS AND THEIR AGENTS SHALL HOLD ALL APPLICABLE AND REQUIRED LICENSES FOR THE JURISDICATION IN WHICH THE WORK WILL BE PERFORMED.	ARCHITECTURAL	
8.	DO NOT SCALE DRAWINGS. CALCULATE AND MEASURE REQUIRED DIMENSIONS. ALL DIMENSIONS ARE TO BE TAKEN FROM DESIGNATED	A000 A001	ARCHITECTURAL MATERIALS, GRAPHIC SYMBOLS, & ABBREVIATIONS ADA & INSTALLATION STANDARDS
Q	DATUM POINT. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER GRAPHIC REPRESENTATION. VERIFY DIMENSIONS IN FIELD. NOTIFY ARCHITECT IMMEDIATELY UPON DISCOVERY OF DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND	A001 A002	ADA & INSTALLATION STANDARDS ADA & INSTALLATION STANDARDS
Э.	DRAWINGS AND PRIOR TO COMMENCING WITH WORK IN QUESTION.	A010	DOORS, HORIZONTAL AND VERTICAL ASSEMBLIES
10.	UNLESS NOTED OTHERWISE, PLAN DIMENSIONS ARE AS FOLLOWS: EXTERIOR DIMENSIONS TO FACE OF BRICK VENEER, BRICK VENEER MASONRY, CAST-IN-PLACE CONCRETE, PRECAST CONCRETE, AND CONCRETE MASONRY UNIT OPENING OR COLUMN CENTERLINE.	A050 A051	ARCHITECTURAL SITE PLAN & BID ALTERNATES ALTERNATE #6 ELEVATION
	STOREFRONT AND CURTAINWALL DIMENSIONS TO FACE OF ROUGH OPENINGS INCLUDING PERIMETER JOINT. INTERIOR DIMENSIONS TO	A100	FLOOR PLAN
11	FACE OF FINISH WALL, FURRED OR NOT. INSTALL DOORS NOT LOCATED BY DIMENSION SUCH THAT EDGE OF DOOR FRAME TO FACE OF ADJACENT WALL IS 0'4". SEE <a010></a010>	A101	FLOOR PLAN
	FOR DETAILS.	A110 A200	ROOF PLAN EXTERIOR BUILDING ELEVATIONS
11.	PRIOR TO PROCEEDING WITH WORK, COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND ROUGH-INS THROUGH SLABS, WALLS, CEILINGS, AND ROOFS FOR DUCTS, PIPES, CONDUITS, CABINETS AND EQUIPMENT.	A300	EXTERIOR WALL SECTIONS
12.	VERIFY EXISTING UTILITY LOCATIONS USING STATE ONE CALL SYSTEM BEFORE CONSTRUCTION STARTS. COORDINATE NEW UTILITY	A500	
12	LOCATIONS, CONNECTIONS, PENETRATIONS, AND SERVICE ENTRANCES WITH FINDINGS. PROVIDE ACCESS DOORS FOR CONCEALED VALVES, DAMPER CONTROLS, FIRE DAMPER LINKAGE, AND ELECTRICAL JUNCTION BOXES.	A501 A650	INTERIOR ELEVATIONS AND DETAILS INTERIOR SIGNAGE
	COORDINATE MEP, AV/IT, SECURITY, AND LIFE SAFETY DEVICE/FIXTURE LOCATIONS TO AVOID CONFLICTS WITH CASEWORK, DOORS, AND	A800	VOCATIONAL SHOP EQUIPMENT (FOR REFERENCE ONLY)
1/	OTHER TRADES. PROVIDE CONSTRUCTION AND CONTROL JOINTS IN CONCRETE SLABS ON GRADE AND TOPPING SLABS PER ACI 224.3R-95 AND AS SHOWN	STRUCTURAL S001	GENERAL NOTES
	OR DETAILED ON STRUCTURAL DRAWINGS.	S003	CONCRETE TYPICAL DETAILS
15.	SEAL PENETRATIONS OF NEW OR EXISTING FIRE-RATED FLOORS AND CEILINGS WITH FIRE-RESISTIVE SYSTEMS (078413) AND (078446) TO MATCH RATING OF ADJACENT CONSTRUCTION UNLESS NOTED OTHERWISE.	S005 S006	STRUCTURAL STEEL TYPICAL DETAILS BRACE FRAMING PLAN
16.	INSTALL JOINT SEALANT (079200) AT EXTERIOR SIDE OF JOINTS, SEAMS, CONNECTIONS, OR OPENINGS WHICH WOULD ALLOW WATER OR	S100	FOUNDATION PLAN
17.	AIR INFILTRATION UNLESS NOTED OTHERWISE. SEAL PERIMETER JOINTS, PENETRATIONS, VOIDS, AND PERIMETER OF DEVICE WALL BOXES THROUGH INTERIOR GYPSUM BOARD SURFACE	S101	FRAMING PLAN
	OF EXTERIOR WALLS WITH LATEX JOINT SEALANT (079200).	S500 S501	SECTIONS & DETAILS SECTIONS & DETAILS
18.	PROVIDE CONCEALED BLOCKING FOR ALL WALL MOUNTED ITEMS (EQUIPMENT, HANDRAILS, MILLWORK, ACCESSORIES, ETC). BLOCKING MAY NOT BE WHOLLY SHOWN/INDICATED ON DRAWINGS. WHERE CONSTRUCTION IS OF A NONCOMBUSTIBLE TYPE PROVIDE SHEET METAL	MEP	
	OR FIRE RETARDANT TREATED (FRT) WOOD.	MEP100	SPECIFICATIONS
		MEP101 MEP102	SPECIFICATIONS SPECIFICATIONS
		MEP103	SPECIFICATIONS
		MECHANICAL DM100	DEMOLITION - FLOOR PLAN - LEVEL 1 & 2 - MECHANICAL
		M100	PHASE 0 - FLOOR PLAN - LEVEL 1 & 2 - MECHANICAL PHASE 0 - FLOOR PLAN - LEVEL 1 & 2 - MECHANICAL
		M200	MECHANICAL DETAILS, SCHEDULES, GENERAL NOTES, AND SYMBOLS
800		PLUMBING P100	PHASE 0 - FLOOR PLAN - LEVEL 1 - PLUMBING
		P200	PLUMBING DETAILS, SCHEDULES, GENERAL NOTES, AND SYMBOLS
		FIRE PROTECTION	
	A S C C C C C C C C C C C C C C C C C C	FP100 FP101	PHASE 0 - FLOOR PLAN - LEVEL 1 - FIRE PROTECTION PHASE 0 - FLOOR PLAN - LEVEL 2 - FIRE PROTECTION
		ELECTRICAL	
		DE100 E100	DEMOLITION - FLOOR PLAN - LEVEL 1 & 2 ELECTRICAL PHASE 0 - FLOOR PLAN - LEVEL 1 & 2 - POWER
4	Sand a strange of a strange of the state	E100 E200	PHASE 0 - FLOOR PLAN - LEVEL 1 & 2 - POWER PHASE 0 - FLOOR PLAN - LEVEL 1 & 2 - LIGHTING
		E300	PHASE 0 - FLOOR PLAN - LEVEL 1 & 2 - SYSTEMS
100	A A A A A A A A A A A A A A A A A A A	E400 E500	ELECTRICAL DETAILS ELECTRICAL SCHEDULES
A State		E500	ELECTRICAL SCHEDULES ELECTRICAL SCHEDULES. GEN NOTES & SYMBOLS

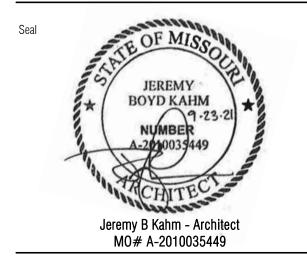


Site Key NOT TO SCALE RE: /



Location Map NOT TO SCALE RE: /

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KH Engineer	ficate of Authority #002350 ing Group Ith Street, Johnson County,	Structural Engin
913-825-9381 Certificate of A Taliaferro &	uthority	Civil Engin
	Street, Jackson County, Kan	
Associates	treet, Jackson County, Kans	MEPF Engin as City, MO 64108
Addit	Longview ion/Renova ongview Road mit, MO 64081	ation
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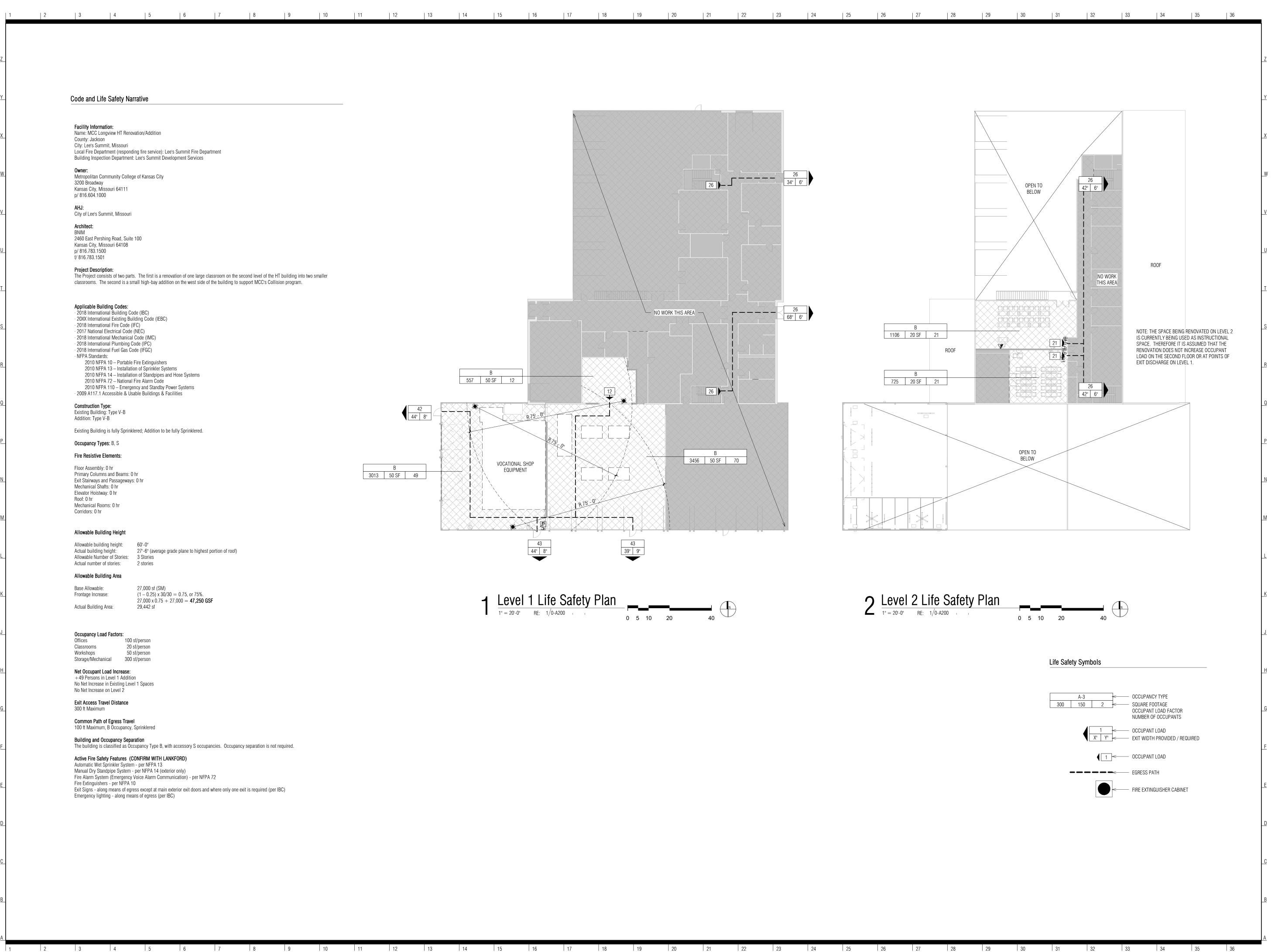


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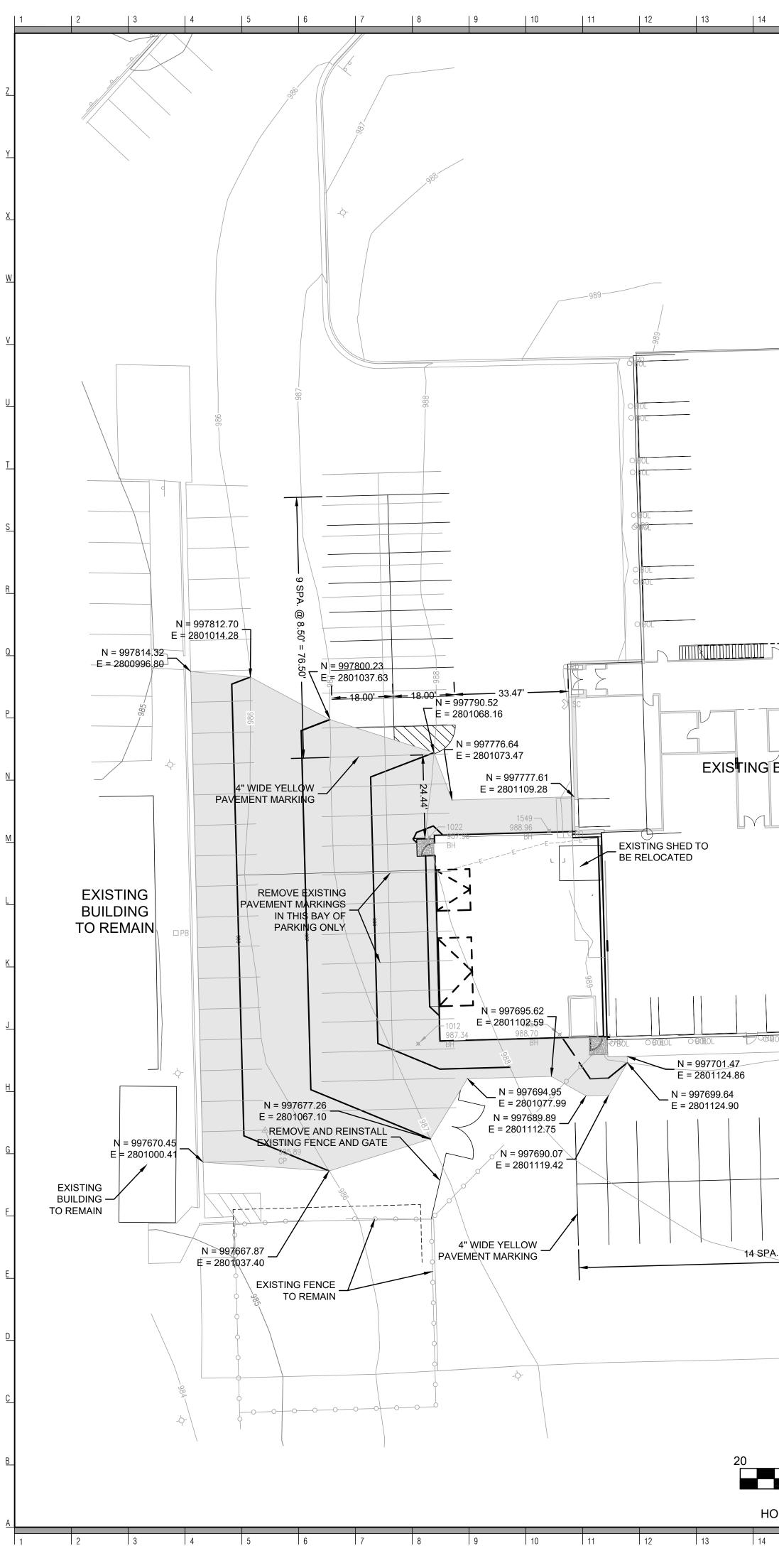
SHEET INDEX, PROJECT INFORMATION & GENERAL NOTES GOC



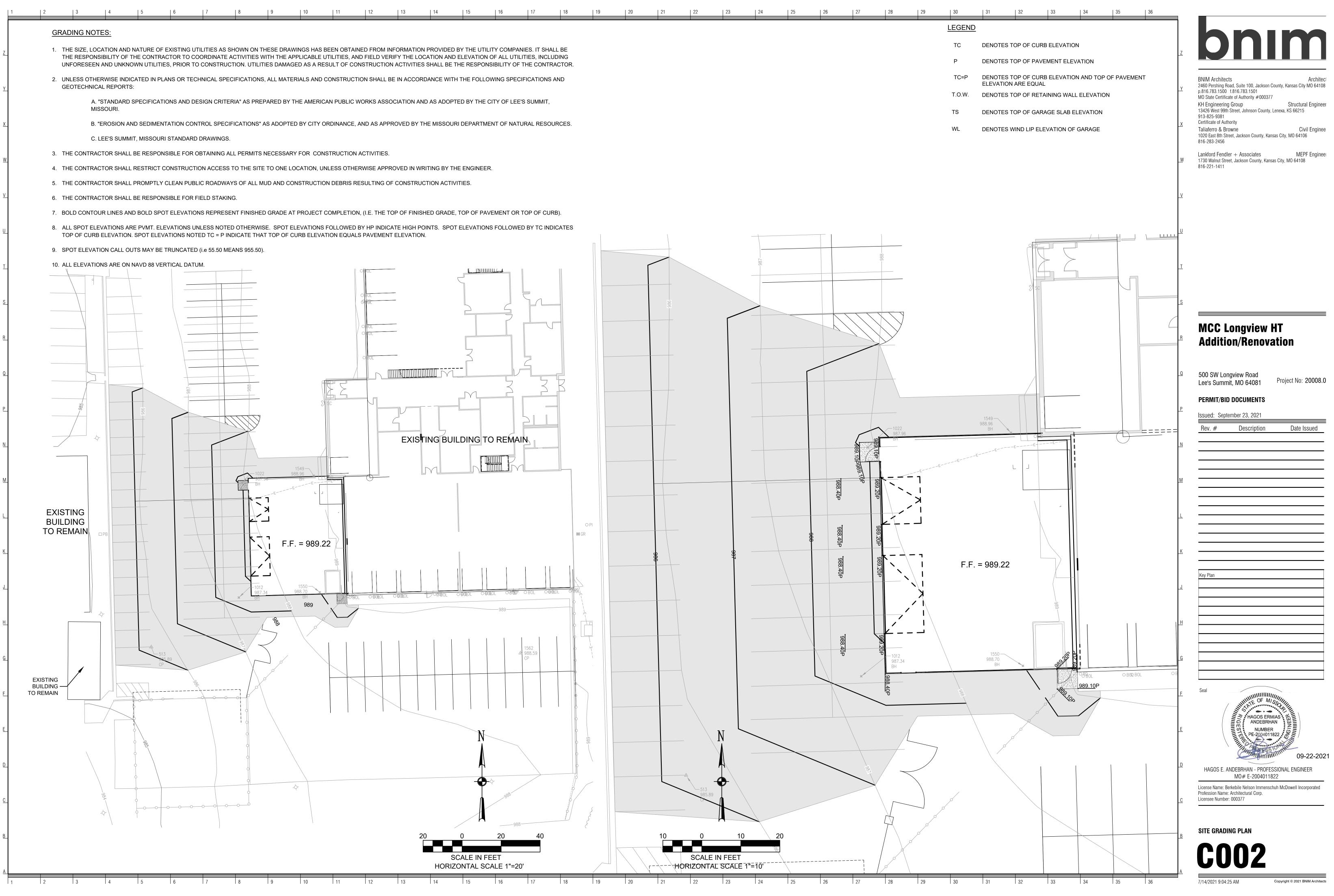
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<u>Z_</u>										
<u>Y</u>	Code and Life Safety Na	rrative								
X	Facility Information: Name: MCC Longview HT Reno	vation/Addition								
	County: Jackson City: Lee's Summit, Missouri Local Fire Department (respond Building Inspection Department	ling fire service): Lee's Summit Fi t: Lee's Summit Development Serv	re Department rices							
W	Owner: Metropolitan Community Colleg 3200 Broadway									
	Kansas City, Missouri 64111 p/ 816.604.1000									
<u>V</u>	AHJ: City of Lee's Summit, Missouri Architect:									
<u>U</u>	BNIM 2460 East Pershing Road, Suite Kansas City, Missouri 64108 p/ 816.783.1500	: 100								
	f/ 816.783.1501 Project Description:	T I (-					
Ţ	classrooms. The second is a sr	s. The first is a renovation of one nall high-bay addition on the west	large classroom on the s t side of the building to s	upport MCC's Collis	i building into two s ion program.	maller				
	Applicable Building Codes: · 2018 International Building Co · 20XX International Existing Bui	ode (IBC) ilding Code (IEBC)								
<u>S</u>	 2018 International Fire Code (I 2017 National Electrical Code 2018 International Mechanical 	IFC) (NEC) Code (IMC)								
<u>R</u>	 2018 International Plumbing C 2018 International Fuel Gas Co NFPA Standards: 2010 NFPA 10 – Portable 	ode (IFGC) Fire Extinguishers								
	2010 NFPA 72 – National	on of Standpipes and Hose Syster								55
<u>Q</u>	· 2009 A117.1 Accessible & Us Construction Type: Existing Building: Type V-B	able Buildings & Facilities						42		
	Addition: Type V-B	lered; Addition to be fully Sprinkle	ered.					44" 8		
<u>P</u>	Occupancy Types: B, S Fire Resistive Elements:									
N	Floor Assembly: 0 hr Primary Columns and Beams: 0 Exit Stairways and Passageways						3013	B 50 SF 49		
	Mechanical Shafts: 0 hr Elevator Hoistway: 0 hr Roof: 0 hr	3. O III								
M	Mechanical Rooms: 0 hr Corridors: 0 hr									
	Allowable Building Height Allowable building height: Actual building height:	60'-0" 27'-6" (average grade plane to I	nighest portion of roof)							
<u>L_</u>	Allowable Number of Stories: Actual number of stories:	3 Stories 2 stories								
<u>K</u>	Allowable Building Area Base Allowable: Frontage Increase:	27,000 sf (SM) (1 - 0.25) x $30/30 = 0.75$, or 7	75%.							
	Actual Building Area:	27,000 x 0.75 + 27,000 = 47 , 29,442 sf	,250 GSF							
<u>J</u>		sf/person								
	Workshops 50 s	sf/person sf/person sf/person								
H	Net Occupant Load Increase: +49 Persons in Level 1 Additio No Net Increase in Existing Leve No Net Increase on Level 2									
<u>G</u>	Exit Access Travel Distance 300 ft Maximum									
	Common Path of Egress Trave 100 ft Maximum, B Occupancy,	Sprinklered								
<u>F</u>	Active Fire Safety Features (C	cupancy Type B, with accessory S CONFIRM WITH LANKFORD)	occupancies. Occupan	cy separation is not r	required.					
E	Automatic Wet Sprinkler Systen Manual Dry Standpipe System - Fire Alarm System (Emergency Fire Extinguishers - per NFPA 1	- per NFPA 14 (exterior only) Voice Alarm Communication) - pe	er NFPA 72							
		ess except at main exterior exit do	ors and where only one e	exit is required (per l	BC)					
<u>D</u>										
<u>C</u>										
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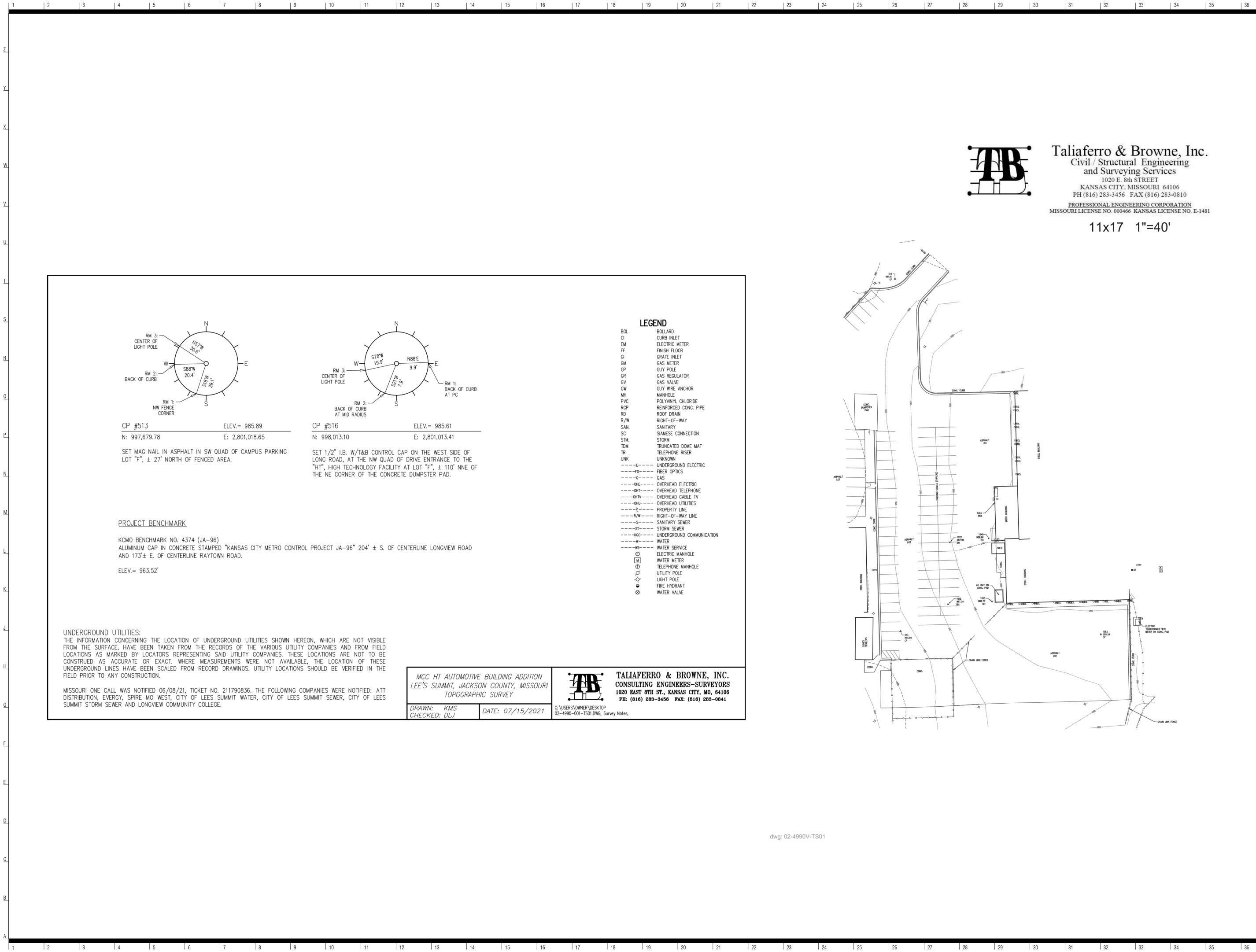


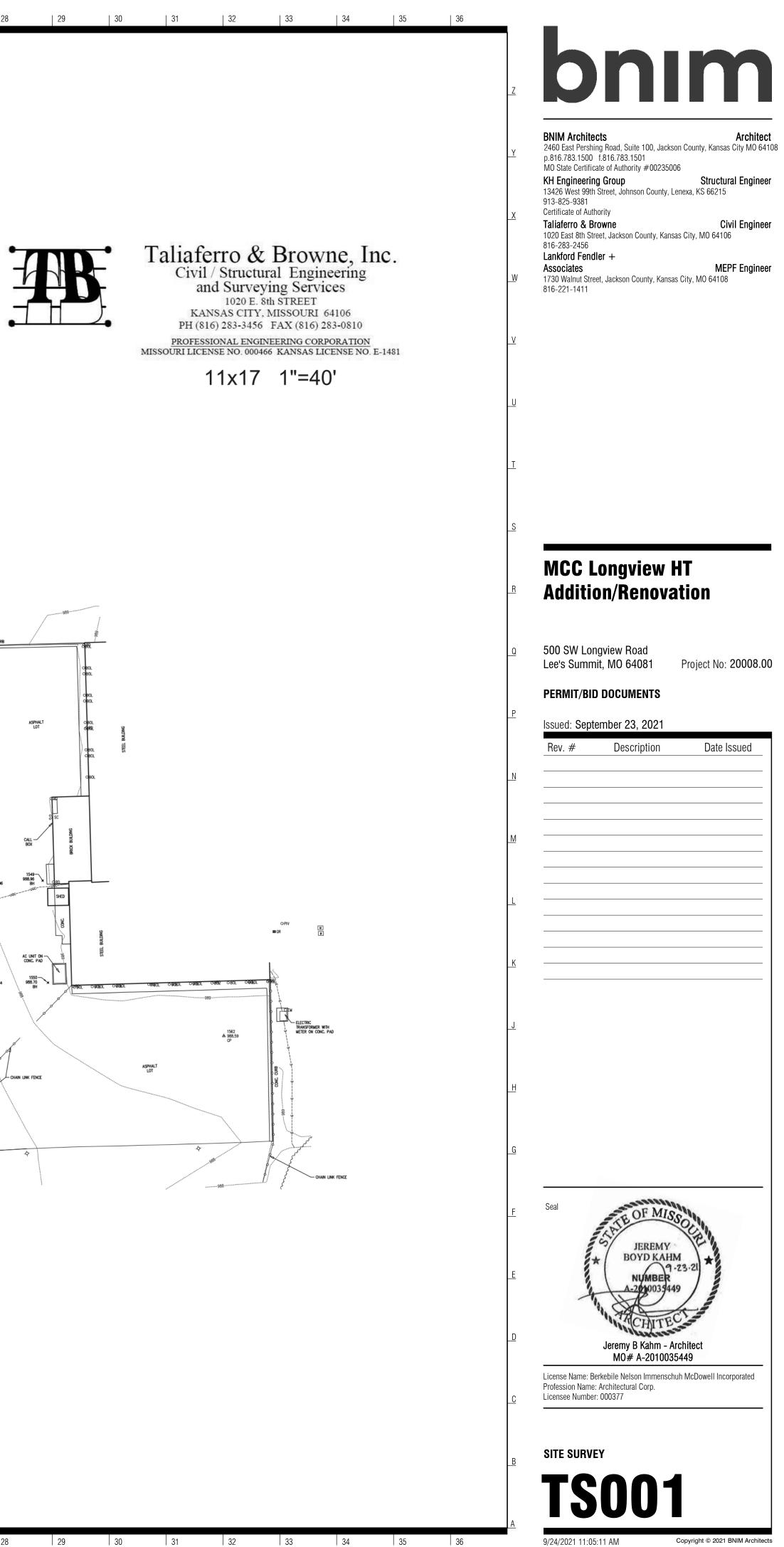
bnim BNIM ArchitectsArchitect2460 East Pershing Road, Suite 100, Jackson County, Kansas City MO 64108p.816.783.1500f.816.783.1501MO State Certificate of Authority #00235006 KH Engineering GroupStructural13426 West 99th Street, Johnson County, Lenexa, KS 66215 Structural Engineer 913-825-9381 Certificate 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 OF MIN 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 CODE REVIEW DATA, LIFE SAFETY PLANS **G101** 9/24/2021 11:05:10 AM Copyright © 2021 BNIM Architects

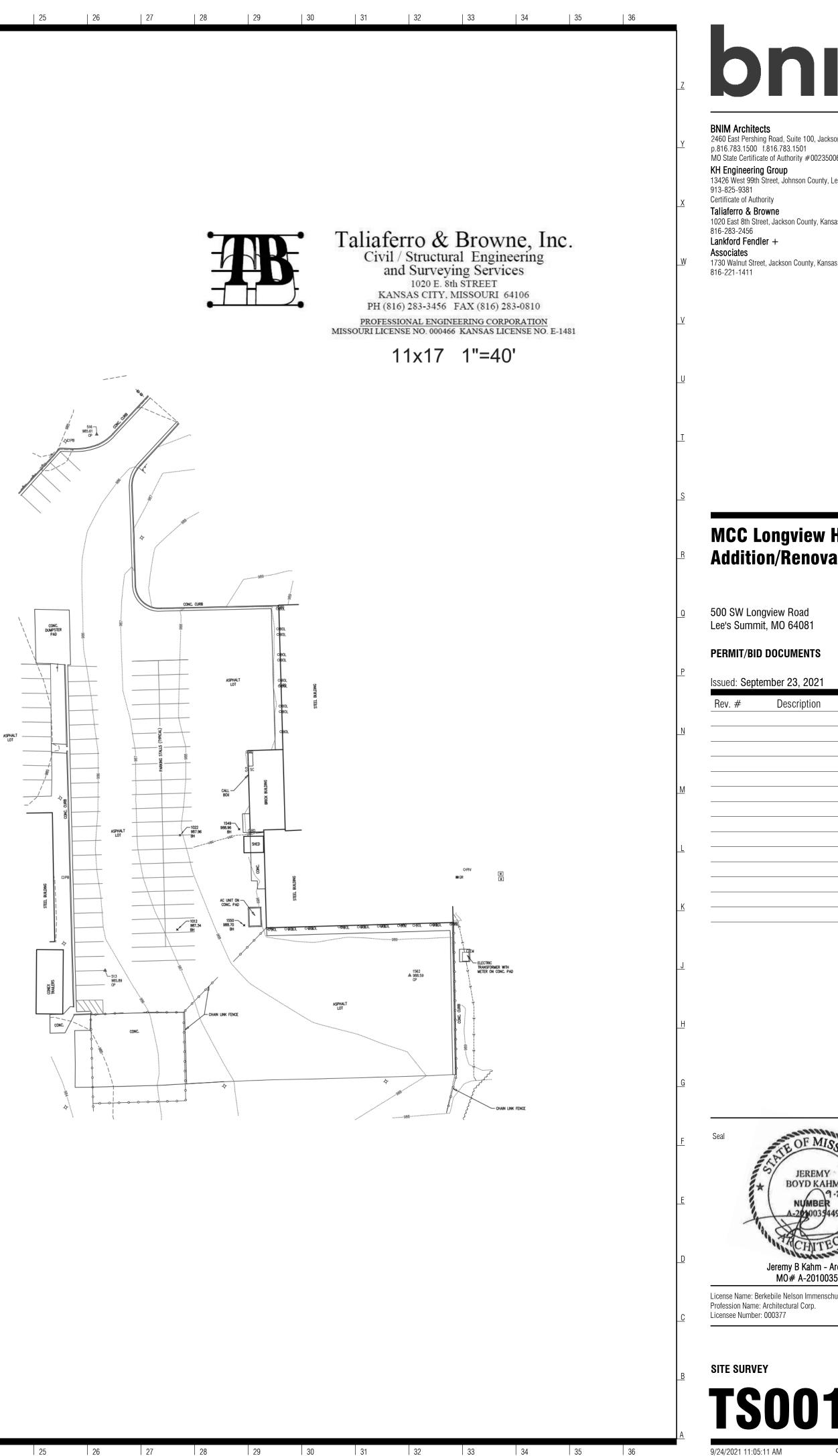


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<u>(</u>	GENERAL NOTES:			
	 ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS: A. "STANDARD SPECIFICATIONS AND DESIGN CRITERIA" AS PREPARED BY THE AMERICAN PUBLIC WORKS ASSOCIATION AND AS ADOPTED BY THE CITY OF 		-	
	LEE'S SUMMIT, MISSOURI. B. EROSION AND SEDIMENTATION CONTROL SPECIFICATIONS AS ADOPTED BY			BNIM Architects Architect 2460 Pershing Road, Suite 100, Jackson County, Kansas City MO 64108
	CITY ORDINANCE, AND AS APPROVED BY THE MISSOURI DEPARTMENT OF NATURAL RESOURCES. C. LEE'S SUMMIT, MISSOURI STANDARD DRAWINGS	PAVEMENT	LEGEND	P.816.783.1500 f.816.783.1501 MO State Certificate of Authority #000377 KH Engineering Group Structural Engineer
2	 UTILITY LOCATIONS ARE TAKEN FROM UTILITY COMPANY RECORDS. THEY ARE APPROXIMATE ONLY AND DO NOT CONSTITUTE ACTUAL FIELD LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION AND SHALL COORDINATE ALL WORK WITH THE APPROPRIATE UTILITY COMPANIES. 		2" TYPE 5-01 ASPHALT CEMENT CONCRETE SURFACE COURSE 3" TYPE 1-01 ASPHALT CEMENT CONCRETE BASE COURSE	13426 West 99th Street, Johnson County, Lenexa, KS 66215913-825-9381χCertificate of AuthorityTaliaferro & Browne1020 East 8th Street, Jackson County, Kansas City, MO 64106816-283-2456
	3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING FACILITIES DESIGNATED TO REMAIN SUCH AS CURBING, PAVEMENT, SEWERS AND UTILITIES. ANY DAMAGE DONE TO THE ABOVE FACILITIES BY THE CONTRACTOR'S PERSONNEL OR EQUIPMENT SHALL BE REPAIRED TO ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.		6" MODOT TYPE V AGGREGATE BASE 6" COMPACTED SUBGRADE	Lankford Fendler + Associates MEPF Engineer 1730 Walnut Street, Jackson County, Kansas City, MO 64108 816-221-1411
	4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING SEWERS, UTILITIES AND ACCESS ROADWAYS DURING ALL PHASES OF CONSTRUCTION.		4" TYPE SW-1 RESIDENTIAL SIDEWALK	
	5. PROTECT EXISTING UTILITIES THAT ARE TO REMAIN AT ALL TIMES. FOR COORDINATION REFER TO "UTILITY SITE PLANS" AND "SPECIFICATIONS", THIS CONTRACT.		6" COMPACTED SUBGRADE	V
	 SAVE AND PROTECT ALL EXISTING TREES THAT ARE DESIGNATED TO REMAIN ("S") DURING ALL PHASES OF THE CONSTRUCTION. REMOVAL AND DISPOSAL OF EXISTING TREES SHALL COMPLY WITH ALL REGULATIONS OF THE CITY OF LEE'S SUMMIT, 			<u>U</u>
	MISSOURI. 8. THE CONTRACTOR SHALL INFORM THE METROPOLITAN COMMUNITY COLLEGE FACILITIES DEPARTMENT AT LEAST ONE			
	 WEEK PRIOR TO ANY STREET CLOSURE. 9. THE CONTRACTOR SHALL ESTABLISH ALL HORIZONTAL AND VERTICAL CONTROL IN CONFORMANCE WITH THE PLANS. VARIATIONS WILL REQUIRE ADVANCE APPROVAL IN WRITING FROM THE ENGINEER. 			I
	10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING FEES AND OBTAINING ALL NECESSARY PERMITS IN ACCORDANCE WITH THE ORDINANCES OF THE CITY OF LEE'S SUMMIT, MISSOURI.		_	<u>S</u>
	11. PRIOR TO ORDERING PRECAST STRUCTURES, SHOP DRAWINGS SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR APPROVAL.			MCC Longview HT
	12. ALL STREET CUT RESTORATION SHALL BE IN CONFORMANCE WITH THE CITY OF LEE'S SUMMIT, MO. STANDARDS AND ENGINEER'S APPROVAL.			^R Addition/Renovation
	13. AT NO TIME SHALL ANY ACCESS TO OCCUPIED BUILDINGS BE CLOSED WITHOUT WRITTEN STATEMENTS FROM HE METROPOLITAN COMMUNITY COLLEGE FACILITIES DEPARTMENT AND THE ENGINEER'S APPROVAL.			
	14. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND MAINTENANCE (MARKING, SIGNS & DEVICES FOR DETOURS & LOCAL TRAFFIC CONTROLS) IN ACCORDANCE WITH AND APPROVAL OF THE STREETS AND TRAFFIC DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI AND THE ENGINEER. THE CONTRACTOR SHALL OBTAIN A CITY APPROVED TRAFFIC (DETOUR) CONTROL PLAN PRIOR TO BEGINNING CONSTRUCTION.			500 SW Longview Road Lee's Summit, MO 64081 Project No: 20008.00
	 15. THE CONTRACTOR MUST REMOVE, AT THEIR COST, ANY UNSUITABLE SUBSURFACE SOIL WHICH WOULD NOT BE ABLE TO SUPPORT ANY PROPOSED PUBLIC IMPROVEMENT. BACKFILL SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APWA 			PERMIT/BID DOCUMENTS P Issued: September 23, 2021
	SECTIONS 2100 AND 2201 ENTITLED "GRADING AND SITE PREPARATION" AND "SUBGRADE PREPARATION" RESPECTIVELY.			Rev. # Description Date Issued
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SPA. @ 9' = 126.00'				E NUMBER
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0 20 40			-	$\frac{1}{100}$ SITE LAYOUT PLAN
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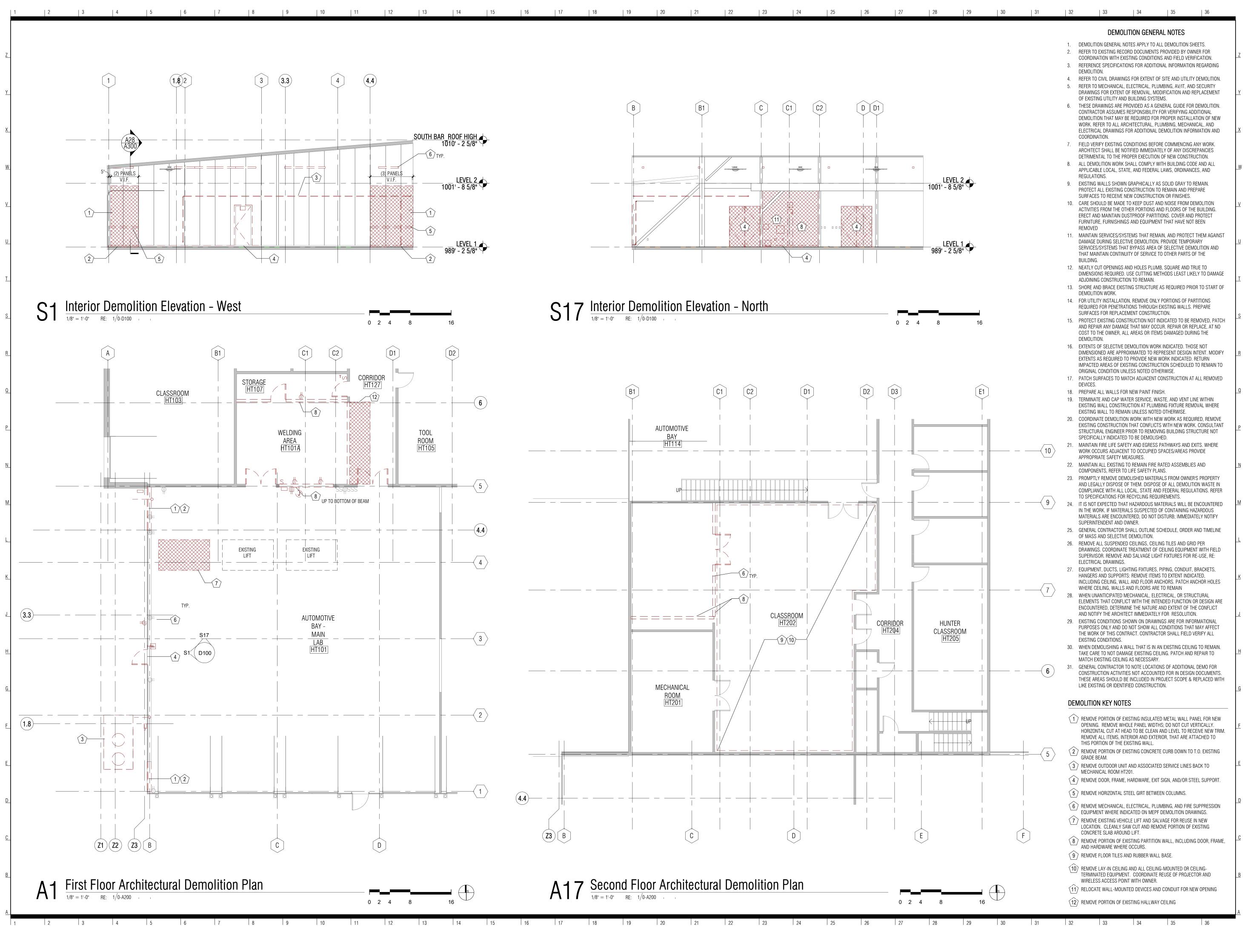
Structural Engineer

Civil Engineer

MEPF Engineer

BOYD KAHM 19.23.

Jeremy B Kahm - Architect MO# A-2010035449 License Name: Berkebile Nelson Immenschuh McDowell Incorporated



bnim

BNIM Architects

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Architect

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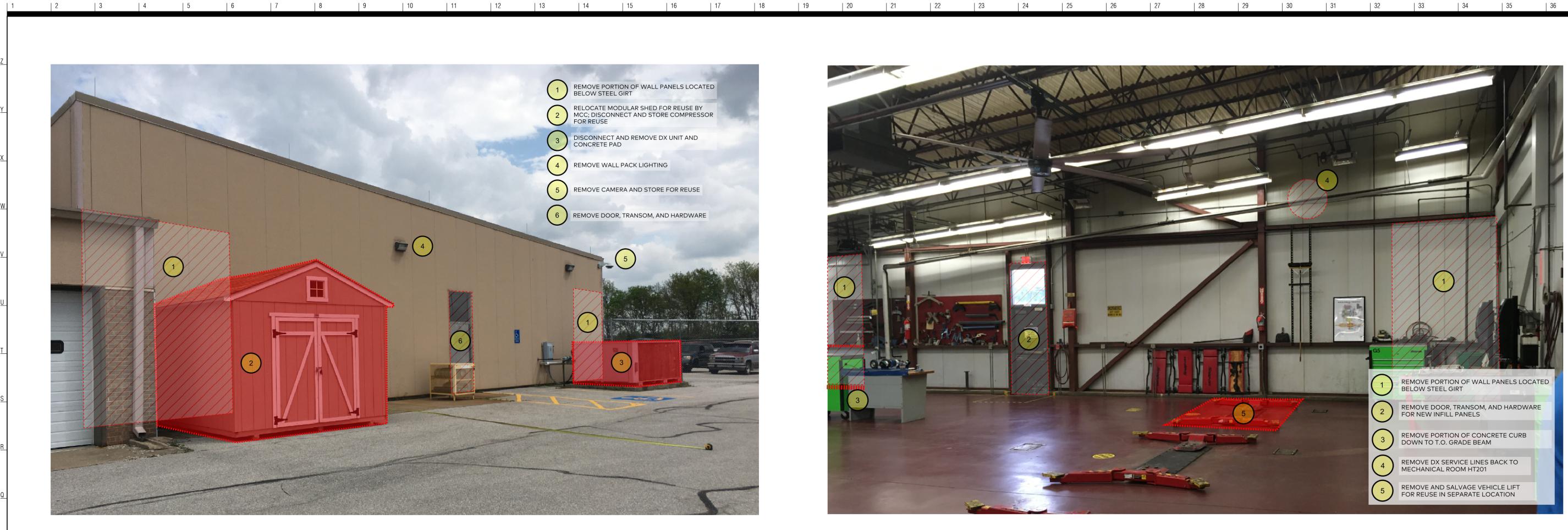
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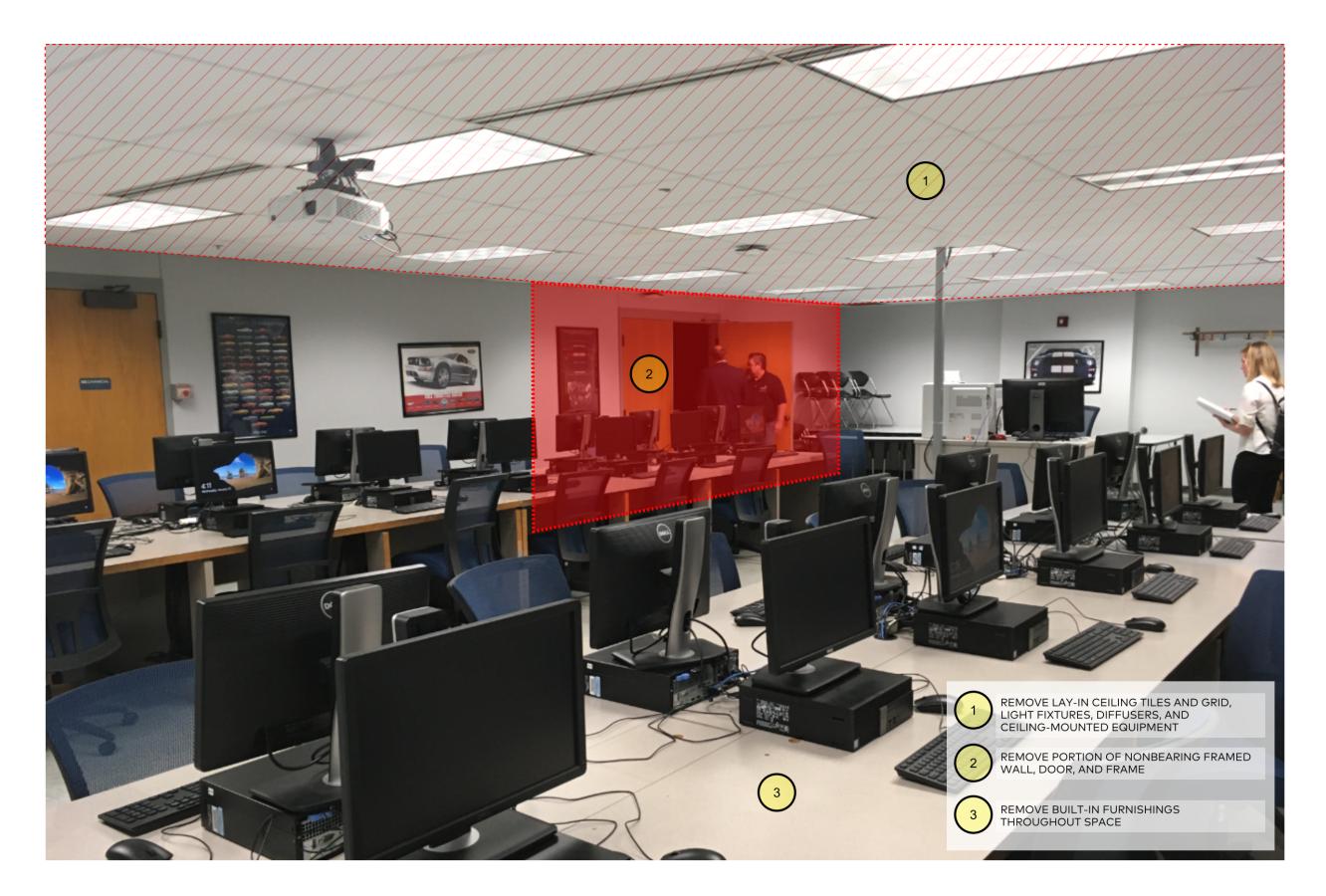
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PERMIT/BID DOCUMENTS

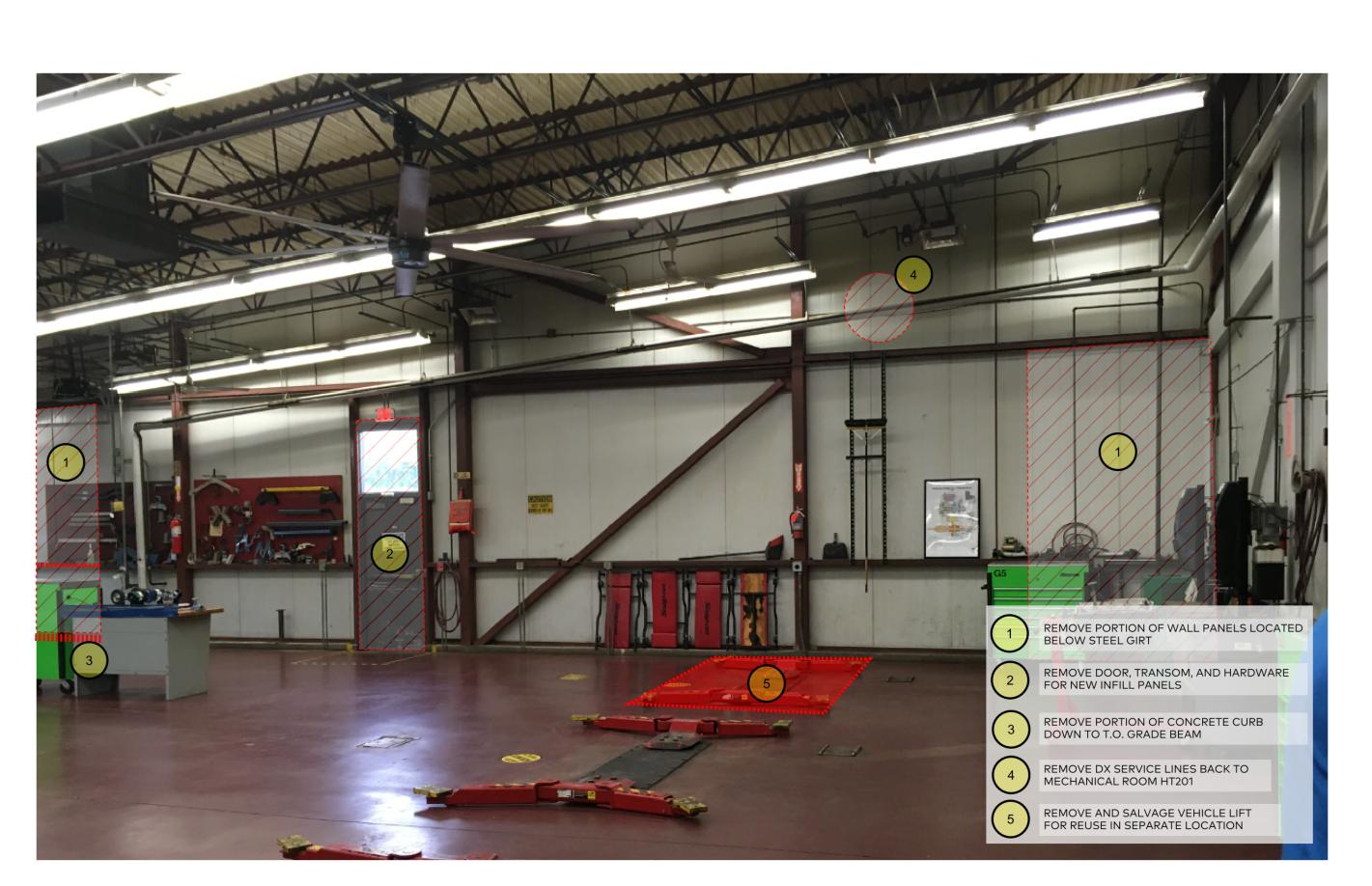
Issued: September 23, 2021 Date Issued Description Rev. # Seal JEREMY **BOYD KAHM** 19.23. UMBER Jeremy B Kahm - Architect MO# A-2010035449 License Name: Berkebile Nelson Immenschuh McDowell Incorporated Profession Name: Architectural Corp. Licensee Number: 000377 **ARCHITECTURAL DEMOLITION PLANS** D100 9/24/2021 11:08:38 AM Copyright © 2021 BNIM Architects



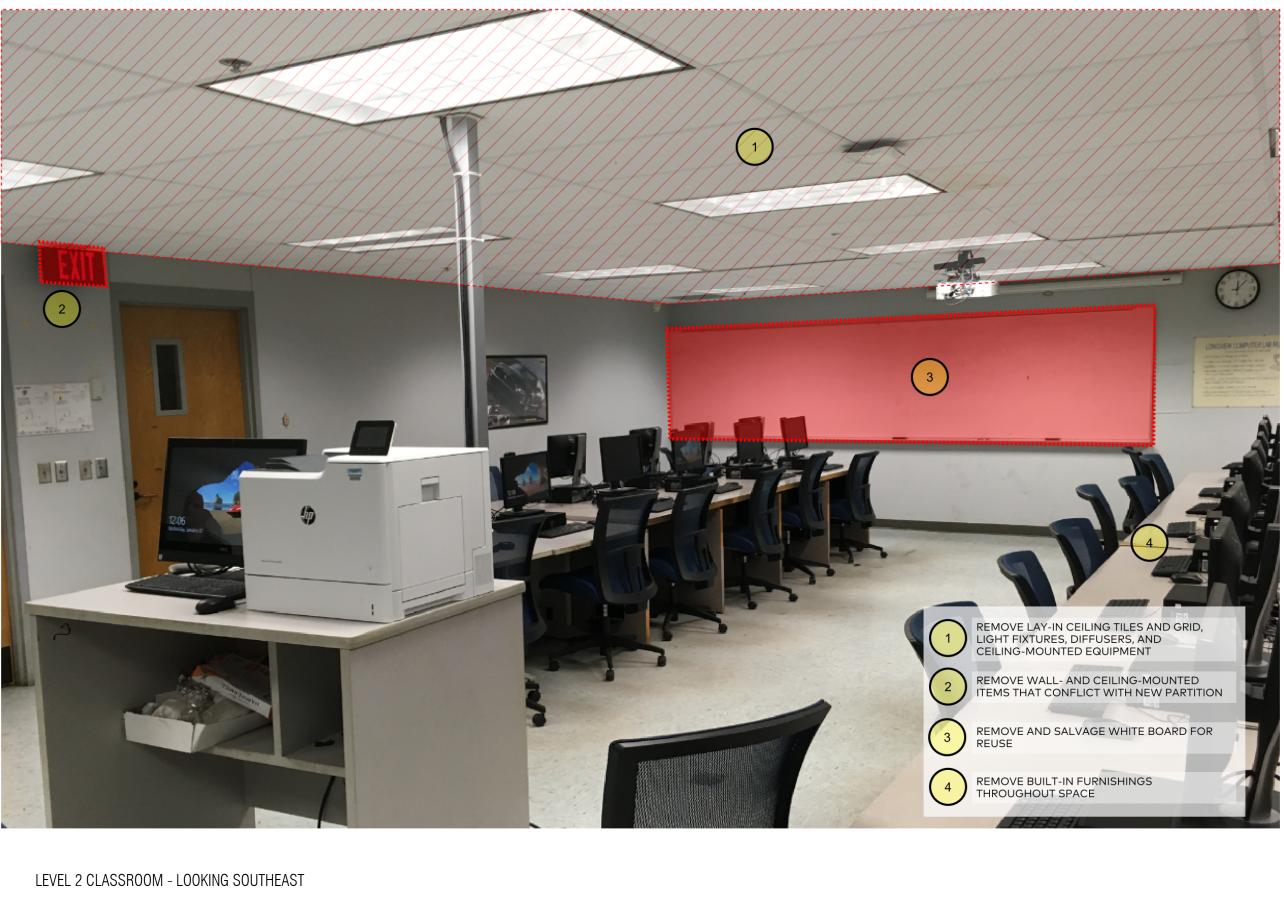
WEST HIGH BAY WALL - EXTERIOR



LEVEL 2 CLASSROOM - LOOKING NORTHWEST



WEST HIGH BAY WALL - INTERIOR

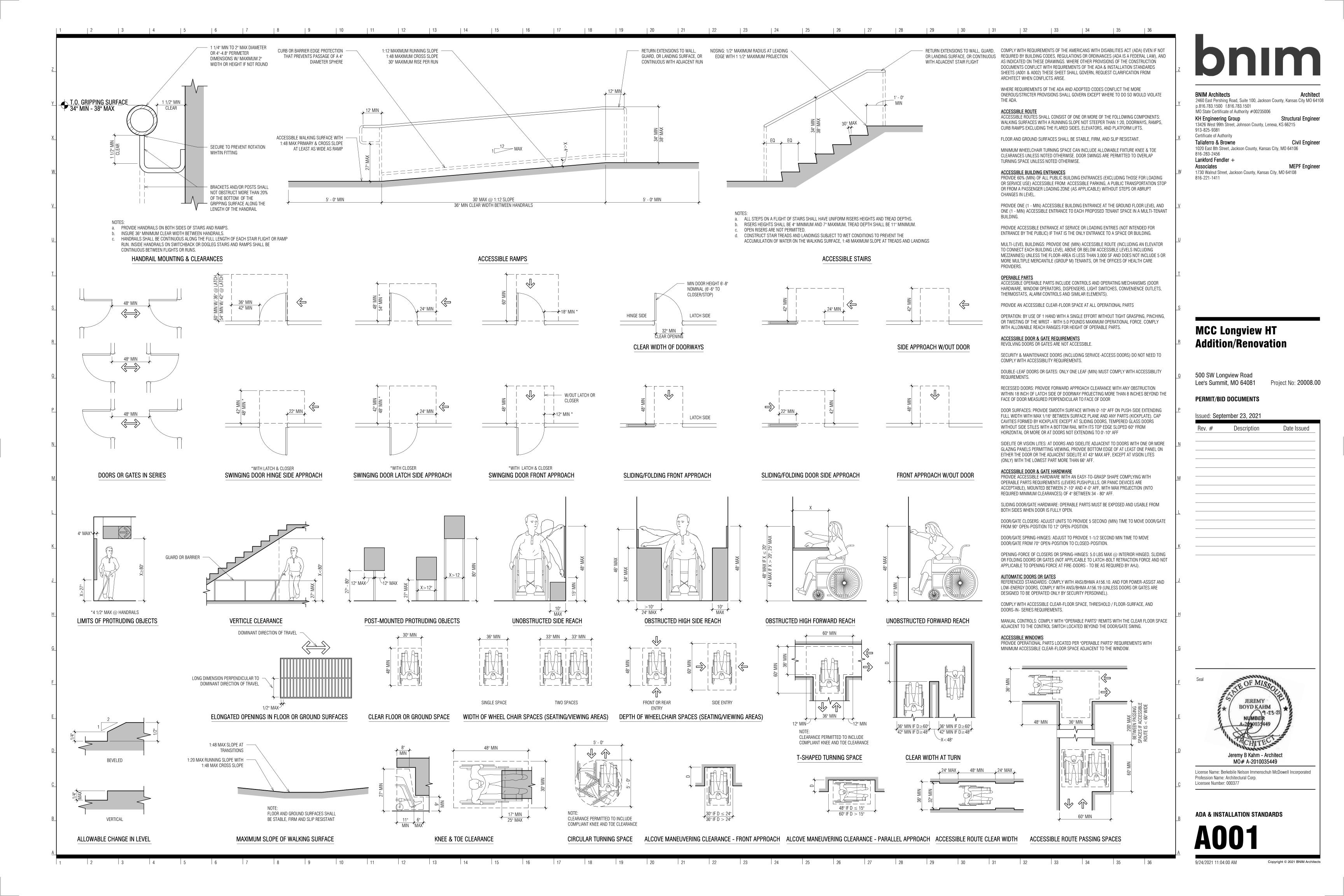


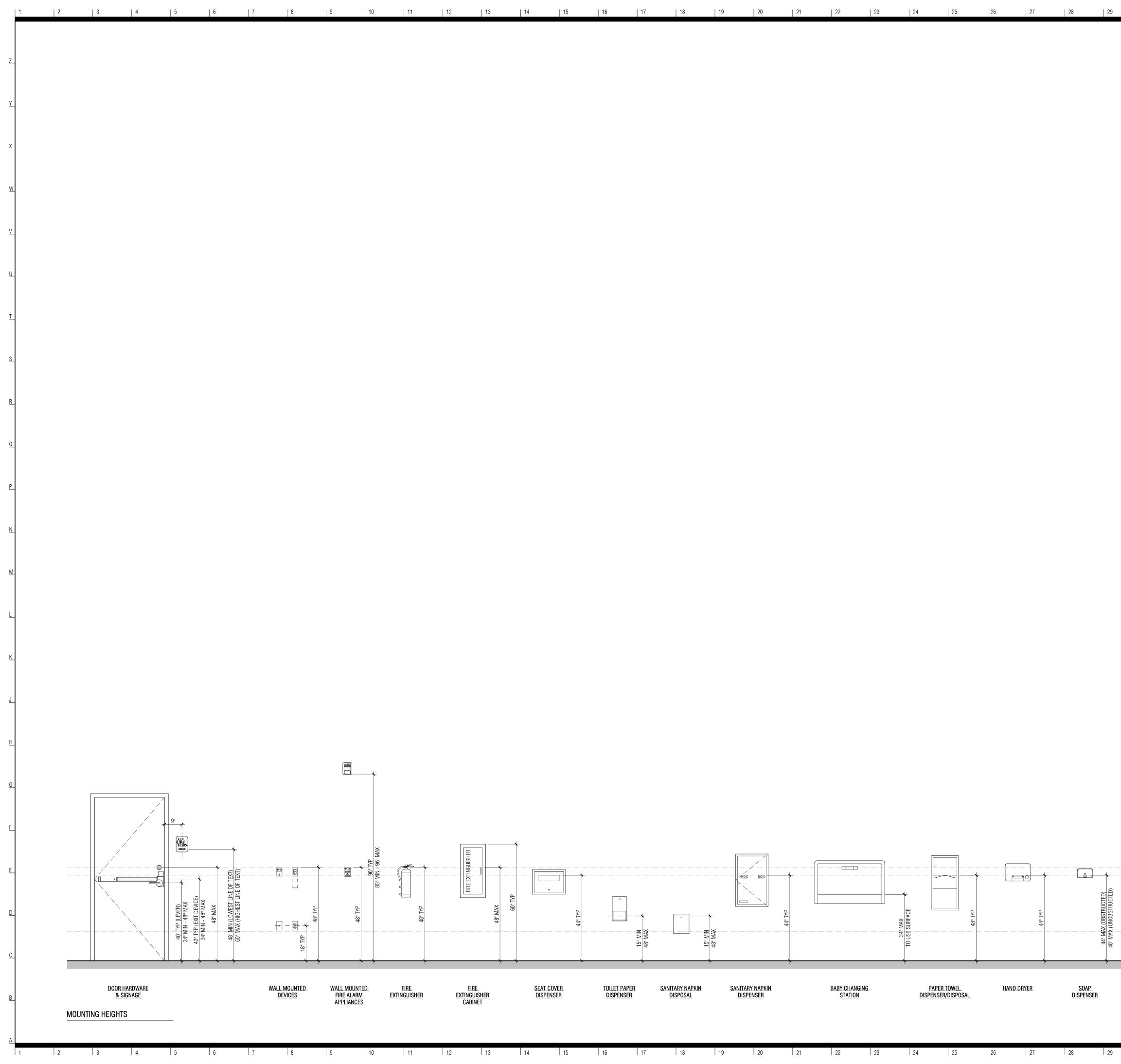
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License Name:	JEREMY BOYD KAHN NUMBER A-2010033449 CHITE Jeremy B Kahm - Ar MO# A-2010035 Berkebile Nelson Immenschu	chitect 449
License Name:	JEREMY BOYD KAHN NUMBER A2000344 GAITE Jeremy B Kahm - Ar MO# A-2010035 Berkebile Nelson Immenschu te: Architectural Corp.	chitect 449
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e 9 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	ASC ACC	Computer Terminal Conc. Masonry Unit	CRT CMU	Floor Cleanout Floor Drain	FCO FD	Manufacturer Masonry	MFR MAS	South Southeast	S SE		<u>Level</u>
ss Door ss Floor	ACC DR ACC FL	Concrete Condenser or Condensate	CONC COND	Flourescent Flow Line	FLUOR	Masonry Opening Material	MO MATL	Southwest Specification	SW SPEC	EXISTING WALL TO BE REMOVED	↑ U-U
ss Panel	ACC PNL	Conduit	CND	Foot, Feet	FT	Maximum	MAX	Square	SQ FT or	EXISTING WALL TO REMAIN	
stical stical Panel	ACOUST AP	Conference Connect(ed)(ion)	CONF CONN	Footing Forest Stewardship Council	FTG FSC	Mechancial Medium	MECH MED	Square Foot	SF SQ		
stical Tile stical Wall Treatement	AT AWT	Construction Construction Change Directive	CONSTR CCD	Foundation	FDTN FRM	Medium-density Fiberboard Medium-density Overlay	MDF MD0	Staggered Stainless Steel	STAG ST STL or	F – – – – – – – – – – – – – – – – – – –	1A
onitrile-butadiene-styrene	ABS	Construction Manager	СМ	Frame Full Size	FS	Member	MBR		SS		
ndum onal	ADN ADD'L	Continuous Contract Limit Line	CONT CLL	Furnish Furnished By Others	FURN FBO	Membrane Metal	MEMB MTL	Standard Stell	STD STL		(A20
sive	ADH	Contractor	CONTR	Furniture, Furnishings & Equipment	FF&E	Meter	М	Storage Structural Steel	STOR STRUCT	CMU WALL	
ent gate	ADJ AGG	Control Joint Cooling tower	CJT CT	Furring Future	FUR FUT	Mezzanine Millimeter	MEZZ MM		STL		
onditioning	A/C	Coordinate	COORD	G Care or Course	CA	Millwork	MLWK	Supply Air Suspen(ded)(sion)	SA SUSP	STUD WALL	
onditioning Unit andling	ACU AHU	Cork Corner Guard	CK CG	Gage or Gauge Gallon	GA GAL	Minimum Minute	MIN MIN	Switch System	SW SYS		
ate num	ALT AL OR	Corridor Corrugated	CORR CORR	Galvanized General Contract(or)	GALV GC	Mirror Miscellaneous	MIR MISC	T		BRICK WALL	
	ALUM	Corrugated Metal Pipe	CMP	Generator	GEN	Mixture	MIX	Tackboard Telephone	TKBD TEL		
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	Television	TV	GLASS BLOCK WALL	
zed	ANOD APT	Cubic Foot	CF	Glass-fiber Reinforced Concrete	GFRC	Mortar	MTR	Temperature Tempered Glass	TEMP TEMP GL		<u>A9B320</u> SIM
imate	APPROX	Cubic Inch Cubic Yard	CI CY	Glued-Laminated Grab Bar	GLU-LAM GB	Mounted Mullion	MTD MULL	Textured Finish	TEX FIN THERM	CONCRETE WALL	
ect's Supplemental Instruction ect(ural)	ASI ARCH	Cylinder D	CYL	Grade Grade Beam	GR BM GR	N Natural	NAT	Thermal Thick(ness)	THK		Ĺ
ectural Precast Concrete	APC	D Deal Load	DL	Ground	GRND	Noise Reduction Coefficient	NRC	Tiolet Tongue and Groove	TLT T & G	PRECAST CONCRETE WALL	
Drain Ilt	AD ASPH	Deep Degree	DP DEG	Gypsum H	GYP	Nominal Normal	NOM NORM	Top of Beam	ТОВ		/
natic	AUTO	Demolish, Demolition	DEMO	Handrail	HNDRL	North	Ν	Top of Curb, Top of Concrete Top of Deck	TOC TOD	BUILDING WALL SYMBOLS	-
ie ge	AVE AVG	Demountable Depth	DMT D	Hardboard Hardware	HDBD HDW	Northeast Northwest	NE NW	Top of Footing	TOF		WOOD DOOR (08
of Curb	BC	Design Detail	DSGN DTL	Hardwood	HDWD	Not Applicable Not In contract	NA NIC	Top of Parapet Top of Pier	TOPAR TOP		EL.
ce	BAL	Diagonal	DIAG	Head Head Joint	HD HJT	Not to Scale	NTS	Top of Steel Top of Wall	TOS TOW		
I & Bagged nent	B & B BSMT	Diameter Diffuser	DIA DIFF	Header Heating	HDR HTG	Number O	NO	Transom	TR	EXISTING CONTOUR	20 R @ 1
	BM	Dimension	DIM	Heating, Ventilating, Air Conditioning	HVAC	Office	OFF	Typical U	TYP		CIP CONCRE
ng Ng Plate	BRG BRG PL	Direct Current Direction, Director	DC DIR	Height Hertz	HT HZ	On Center Opening	OC OPNG	Underwriters Laboratories	UL	GRADED REGION	
oint om	BJT BR	Dispenser	DISP	Hig	Н	Opposite	OPP ORIG	Unfinished United States Gage	UNFIN USG	FINISHED CONTOUR	EL.
I	BLW	Distribution Division	DIST DIV	High Point High-Density Polyethylene Plastic	h pt Hdpe	Origin(al) Ounce	OZ	Utility V	UTIL		Nomo N
n Mark ven	BM BTWN	Door Door Opening	DR DO	Highway Hollow Core	HWY HC	Out to Out Outside Diameter	OTO OD	v Value	VAL	PROPERTY LINE	Name Na 101 or 1
(ed)	BLV	Double	DBL	Hollow Metal	HM	Overall	OA	Vapor Barrier Varnish	VB VAR	SETBACK LINE	150
inous	BITUM BLK	Double Acting Double Hung	DBL ACT DH	Horizontal Horsepower	HORIZ HP	Overflow Roof Drain Overhead	ORD OH	Veneer	VEN		(A1)-
ing	BLKG BD	Dowel(s)	DWL(S)	Hot Water	HW	Р		Ventilating Vertical	VENT VERT	$-\!\times\!-\!\!\times\!-\!\!\times\!-\!\!\times\!-\!\!$ fence	~
	BLR	Down Downspout	DN DS	Hot Water Heater Hour	HWH HR	Painted Pair	PTD PR	Vestibule Vinyl Wall Covering	VEST VWC	• • GUARDRAIL	< <u>1/St</u>
Sides Nays	BS BW	Drawer Drawing	DWR DWG	Hydrant Hydro-chlorofluorocarbon	HYD HCFC	Panel Partition	PNL PTN	VinylComposition Tile	VT		
n	BOT	Drinking Fountain	DF	I		Pavement	PVMT	Vitreous Volatile Organic Compound	VIT VOC	TREES & SHRUBS	
n Face n Footing Elevation	BF BFE	Duplicate E	DUP	Illumination Inches	ILLUM IN	Perforated Photovoltaic	PERF PV	Volt	V	^{Zu} nnewenter PLAN SYMBOLS	
n of Curb et	BOC BRKT	Each Each	EA	Include(d)(ing)	INCL	Plaster	PLAS	Volume W	VOL		
	BRK	Each End Each Face	EF	Indoor Air Quality Information	IAQ INFO	Plastic Laminate Plate	PLAM PL	Wainscot Wall to Wall	WNSCT WTW		ABV.
ing e	BRIDG BRZ	Each Way East	EW F	Inside Diamter Inside Face	ID IF	Plumbing	PLUMB or PLBG	Wall to Wall Water Closet	WC		?
-up Roofing	BUR	Elastomeric	ELAS	Insulated Panel	INSUL	Plyvinyl Chloride	PVC	Water Heater Water-repellent Treated Wood	WH WRTW		/
ng ng Line	BLDG BL	Electric Water Cooler Electrical	EWC ELEC	Insulation	PNL INSUL	Plywood Point of Curve	PLYWD PC	Weight	WT		Ę
ng-Integrated Photovoltaics in Board	BIPV BBD	Elevation	EL or ELEV	Interior Invert	INT INVT or	Point of Intersection Point, Point of Tangent	PI PT	Welded Wire Fabric West	WWF W		1.A
er Guard	BG	Elevator Emergency	ELEV EMER		INV	Polyethylene Terephthalate Plastic	PET	Wide Flange	WF		
hers/Owner	BO	Encloure Engineer	ENCL ENGR	Invert Elevation J	INVT EL	Pounds per Cubic Foot Pounds per Square Foot	PCF PSF	Wide, Width Window	W WDW		7.1
et et lisit liseter	CAB	Entrance	ENTR	Janitor Joint	JAN IT	Pounds per Square Inch	PSI	Wired Glass With	WG W/		T. N. Dears N
et Unit Heater er	CUH CAL	Equal Equipment	EQ EQUIP or	Joint Joist	JI JST	Preliminary Project(ion)	PRELIM PROJ	Without	W/O		Type Name _{OR} <u>Room N</u> Gross Floor Area 150
ever t 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		100
t Tile	CT	Establish	ESTB	К		Q		Working Point	WPT		
t(ed) nent	CPT CSMT	Estimate Ethylene Propylene Diene Monomer	EST EPDM	Kick Plate Kilovolt Amps	KPL KW	Quality Quarry Tile	QUAL TQ	Wrought Iron Y			ANNOTATION SYMBOLS
vork	CSWK	Exhaust	EXH	Kilowatts Kips	KVA K	Quart	QT	Yard	YD		
ron ron Pipe	CI CIP	Exhaust Fan Exhaust Grille	EF EG	Kitchen	KIT	Quarter R	QTR				
Stone In-Place Concrete	CST CIP CONC	Existing Expansion	EXIST'G EXP	Knocked Down Knockout	KD KO	Radius Railroad	R or RAD RR				EARTH EXISTING
Basin	CB	expansion Joint	EJT	L		Receptacle	RECP				
g g Height	CLG CLG HT	Exterior Exterior Insulation & Finish System	EXT EIFS	Laboratory Laminated	LAB LAM	Recessed Rectangular	REC RECT				BACKFILL
us, Degree	С	Extrusion	EXTRU	Large Lavatory	LG LAV	Reference	RE or REF				
nt(itious) r	CEM CTR	F Face Brick	FB	Leadership in Energy & Environmental Design	LEED	Refrigerator Regular	REFR REG				
r Line r to Center	CL C to C	Face of Concrete Face of Masonry	FOC FOM	Left Hand Length	LH L	Reinforc(ing)(ed) Reinforced Concrete Pipe	REINF RCP				
meter(s)	CM	Face of Stud	FOS	Light	LT	Reinforcing Bar	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 e Order	CHAM	Fasten, Fastener Feet	FAS FT	Lightweight Concrete	LWT CONC	Return Return Air	RET				
el	CO C	Fiber-reinforced Plastic	FI	Linear Linear Low density Polyothylone Plastic	LIN	Revision	REV				CAST-IN-PLACE CON
ical, Chemistry ofluorocarbon	CHEM CFC	Finish Finished Floor	FIN FF	Linear, Low-density Polyethylene Plastic Lintel	LLDPE LTL	Right Hand Right of Way	RH ROW				[<u>7757 - 7857 - 78</u>
osulfonated Polyethylene	CSPE	Finished Floor Elevation	FFE	Live Load Locate, Location	LL LOC	Roof Drain	RD				PRECAST CONCRETE
it.	CIR CKT	Finished Floor Line Fire Extinguisher	FFL FE	Long Leg Horizontal	LLH	Roofing Room	RFG RM				
room	CLRM CO	Fire Extinguisher Cabinet Fire Hose Cabinet	FEC FH	Long Leg Vertical Longitudinal	LLV LONG	Rough Opening	RO RND				CEMENTITIOUS TOP
out or Clearance	CLR	Fire Hydrant/Hose	FHC	Louver	LVR	Round S					
d Circuit Television t	CCTV CLO	Fire-retardant Treated Wood Fireproof	FRTW FP	Low Point M	LP	Sanitary Schedule	SAN SCHED				GROUT
Hook	СН	Fixture	FIXT	Machine Machine Screw	MACH MS	Scored Joint	SCD JT				
Modification Request	CMR	Flashing	FLASH'G	IVIAGIIIIIE JUIEW	IVIO	Section	SECT				03 CONCRETE
1 Abbreviation	ne									A21 Architectural Materials	and Graphic Sym

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COLUMN LINE	/GRID INDICATOR				BRICK			
BENCHMARK/I	LOOR ELEVATION	SYMBOL			CONCRETE MASON	RY UNITS		
NORTH ARROV	I				GLASS BLOCK			
					CUT STONE			
WALL/BUILDIN	G ELEVATION SYN	1BOL			CAST STONE			
BUILDING SEC	TION SYMBOL				SLATE			
WALL SECTION	I/DETAIL SECTION	SYMBOL		04 MASONRY	SAND			
					OTEL			
DETAIL REFERI	ENCE SYMBOL				STEEL			
					ALUMINUM			
REVISION INDI	CATOR				OTHER METALS			
TEXTNOTE SYN	/BOL			05 METALS				
FLOOR SLAB E	LEVATION							
STAIR TAG					CONTINUOUS WOO	D		
FLOOR TAG					INTERMITTENT WO	OD		
SPOT ELEVATI	ON SYMBOL				PLYWOOD			
ROOM TAG SY	MBOLS				FINISH WOOD			
PARTITION TYP					GLUED-LAMINATED) CONSTRUCTION		
DOOR SYMBOL					CORK			
		ור			CONK			
CEILING HEIGH	EM PANEL SYMB	JL			HARD BOARD			
FINISH TAG SY					PARTICLEBOARD			
LANDSCAPE T					SOLID SURFACE MA	ATERIAL		
FURNITURE TA				06 W00D & P	LASTICS			
FURNITURE SY	STEMS TAG							
AREA TAG SYM	1BOLS				BATT INSULATION			
					LOOSE FILL INSULA	ATION		
					RIGID INSULATION			
				07 THERMAL &	& MOISTURE PF	ROTECTION		
					GLASS			
					PLASTIC GLAZING			
				08 DOORS & V	VINDOWS			
					LATH & PLASTER			
					GYPSUM BOARD			
					CERAMIC TILE			
					CEILING PANEL			
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BNIM Architects 2460 East Pershing Road, Suite 100, 4 p.816.783.1500 f.816.783.1501 MO State Certificate of Authority #002 KH Engineering Group 13426 West 99th Street, Johnson Cou 913-825-9381 Certificate of Authority Taliaferro & Browne 1020 East 8th Street, Jackson County, 816-283-2456	Structural Engineer nty, Lenexa, KS 66215 Civil Engineer
Lankford Fendler + Associates 1730 Walnut Street, Jackson County, H 816-221-1411	MEPF Engineer Kansas City, MO 64108
MCC Longviev Addition/Reno	
500 SW Longview Road Lee's Summit, MO 64081	Project No: 20008.00
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JEREM BOYD K BOYD K NUMB A-2000 Jeremy B Kahn MO# A-201 License Name: Berkebile Nelson Imme Profession Name: Architectural Corp.	AHM 9-23-2 3449 ECC Architect 0035449 enschuh McDowell Incorporated ALS, GRAPHIC IONS





	44" TYP		48" MAX	15 ⁻ MIN			44" TYP			TO USE SURFAC			— — — — 44" TYP		44" MAX (OBSTI 48" MAX (UNOBS
<u>Seat Cove</u> <u>Dispense</u>	<u>R</u> <u>}</u>	<u>TOILET PAPER</u> <u>DISPENSER</u>		<u>Sanitary Napkin</u> <u>Disposal</u>		<u>Sanitary Napkin</u> <u>Dispenser</u>		BABY CHANGIN Station	<u>G</u>	<u>Pai</u> <u>Dispen</u>	<u>PER TOWEL</u> ISER/DISPOSAL	HA	<u>ND DRYER</u>	<u>SC</u> DISPI	<u>DAP</u> ENSER
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29

30	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

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

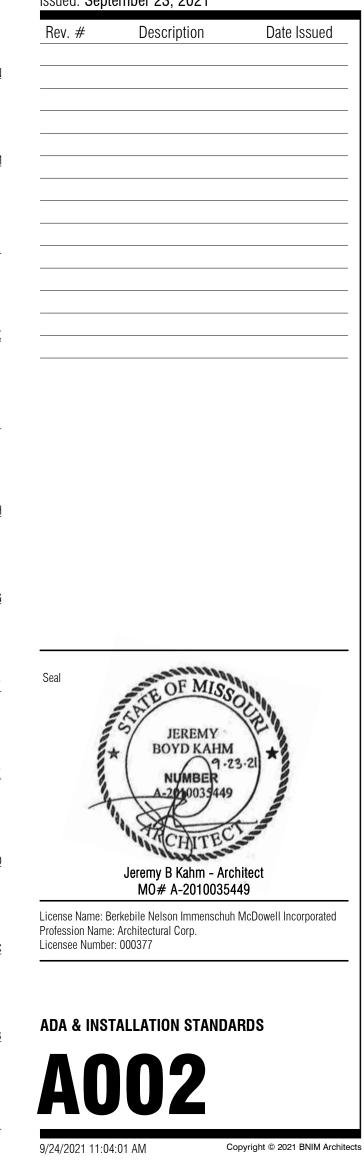
1730 Walnut Street, Jackson County, Kansas City, MO 64108 816-221-1411

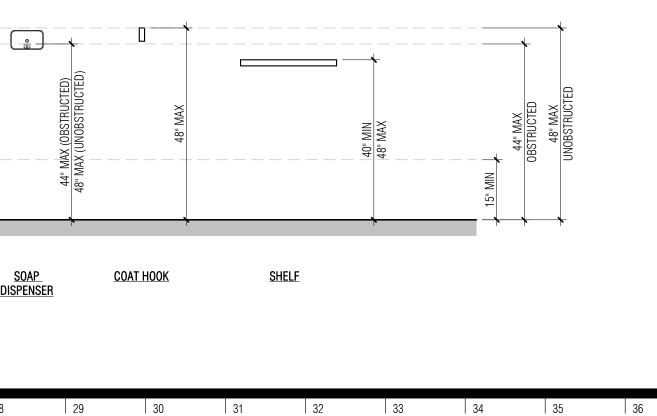
MCC Longview HT **Addition/Renovation**

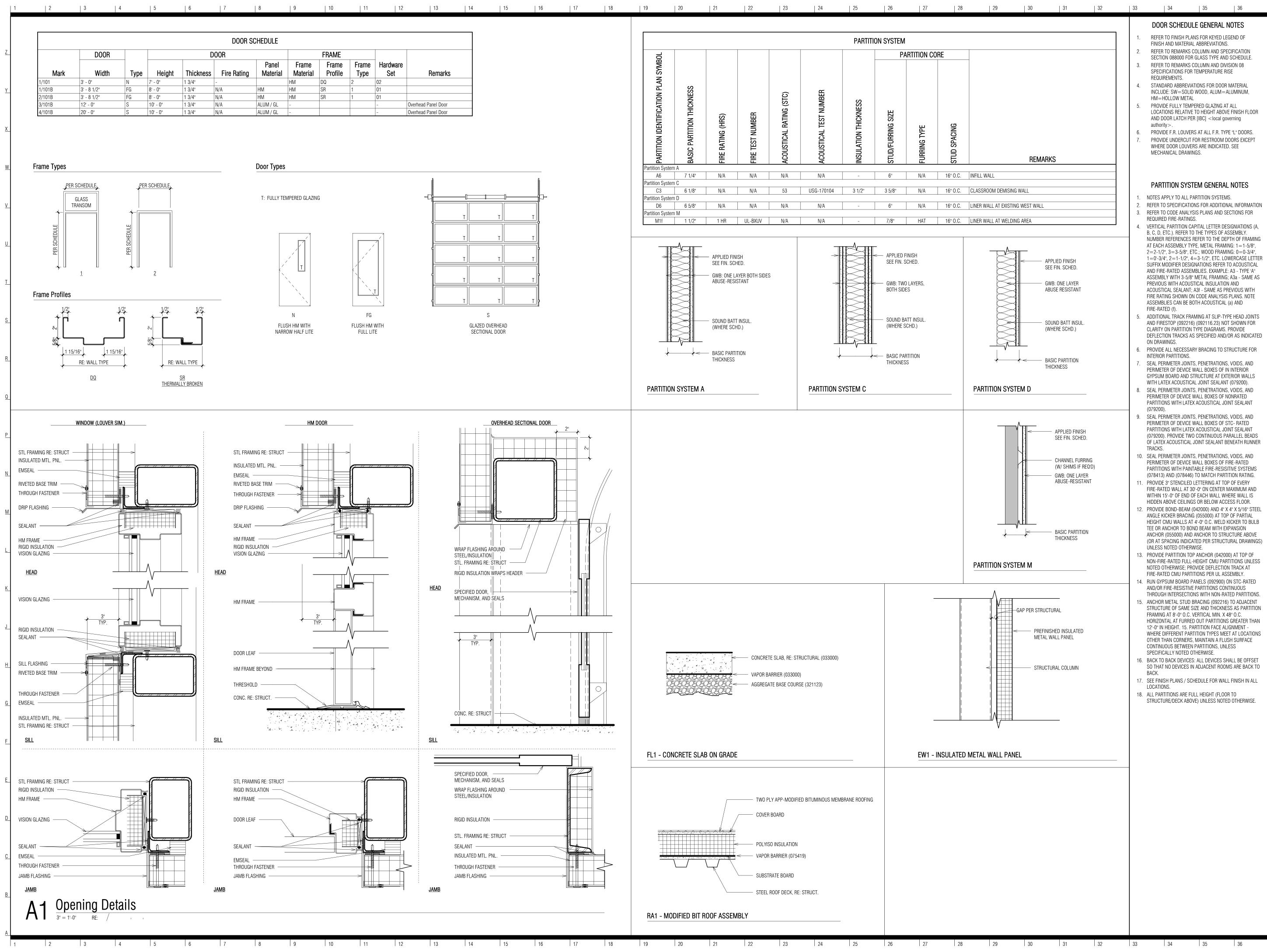
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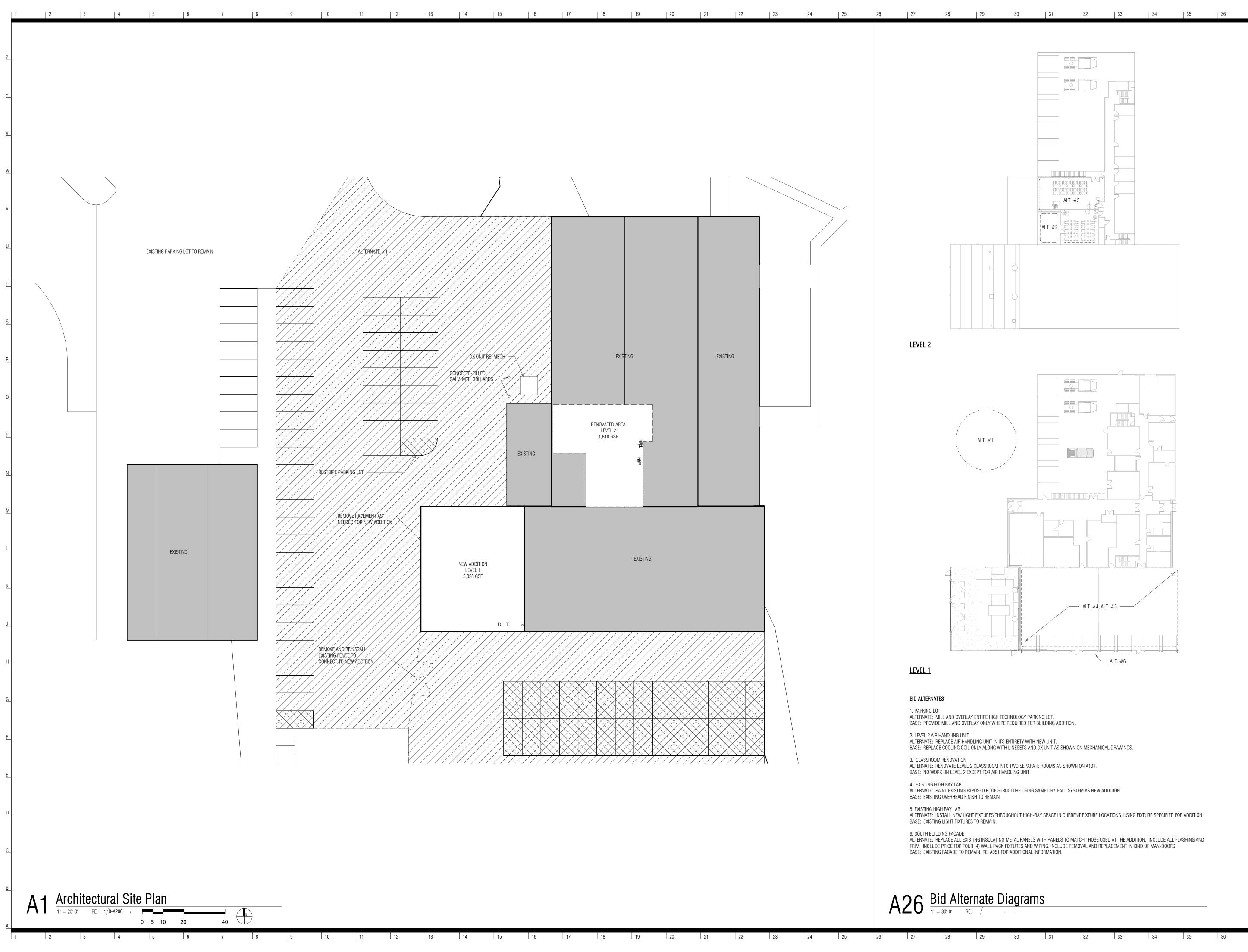
2460 East Pershing Road, Suite 100, Jackson County, Kansas City MO 64108 p.816.783.1500 f.816.783.1501 MO State Certificate of Authority #00235006 Structural Engineer KH Engineering Group 13426 West 99th Street, Johnson County, Lenexa, KS 66215 913-825-9381 Certificate of Authority Civil Engineer Taliaferro & Browne 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

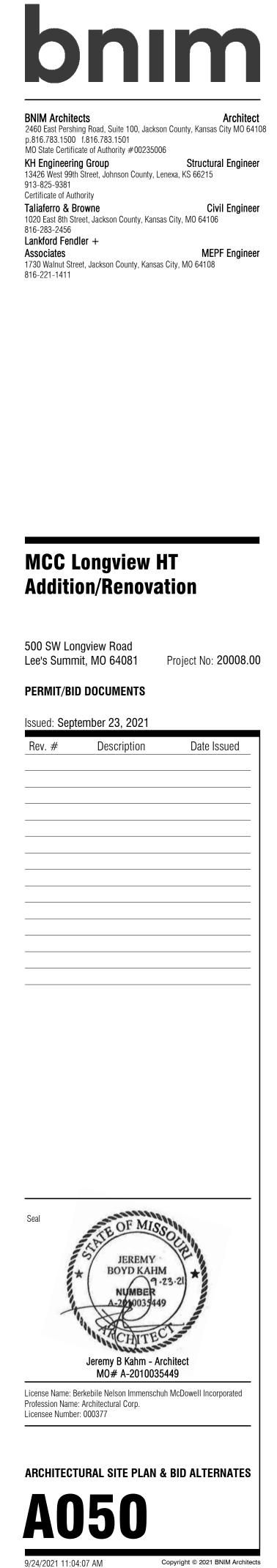
MCC Longview HT Addition/Renovation

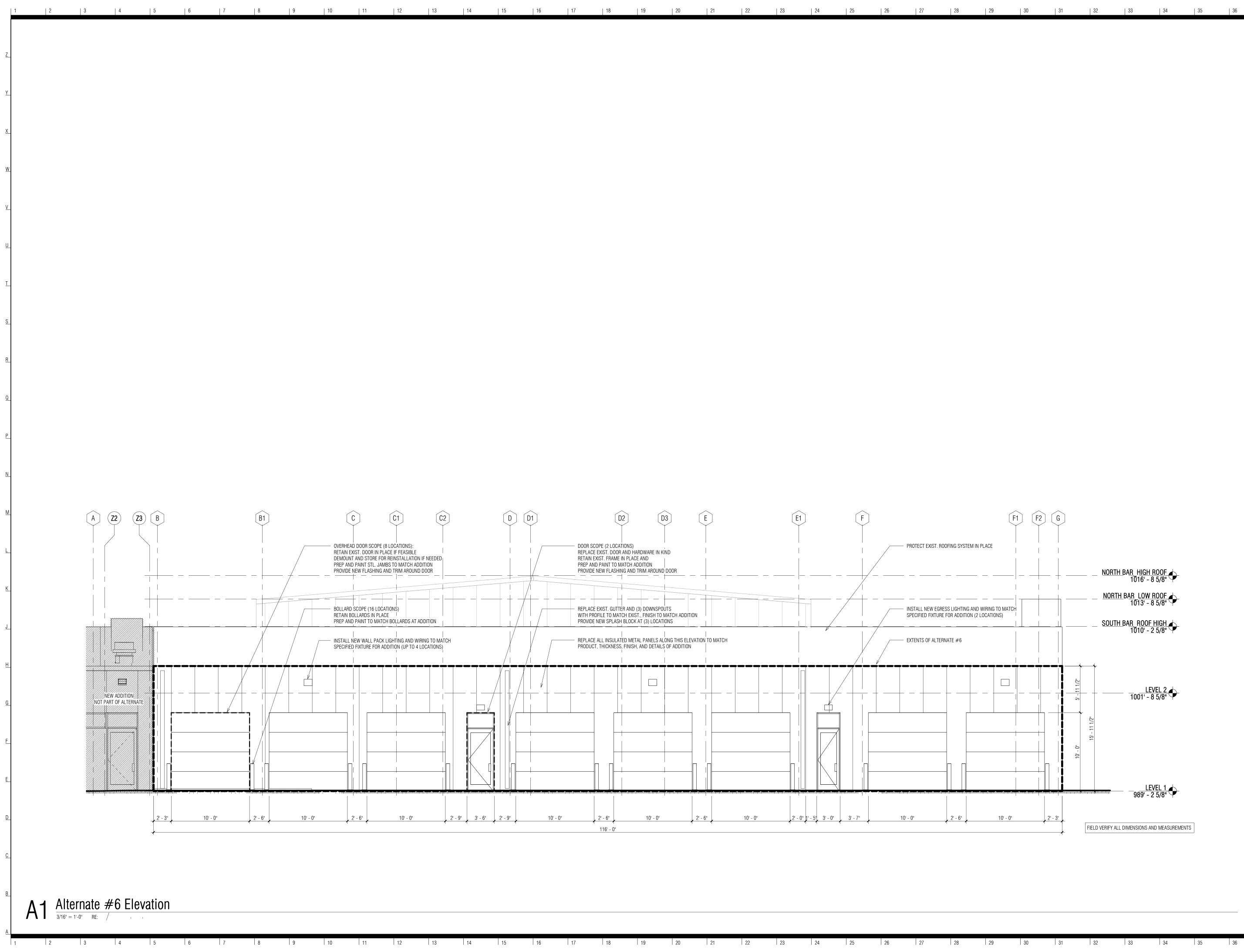
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	Jaramy D Kahr	Architect
	Jeremy B Kahn MO# A-201	
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	e: Architectural Corp.	
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		REPLACE EXIST. DOOR AND H RETAIN EXIST. FRAME IN PLAC PREP AND PAINT 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"	2' - 6" 116' - 0"	10' - 0" 2' - 6"	10' - 0"]'	- 5", 3' - 0" 3' - 7"	10' - 0" , 2' - 6"

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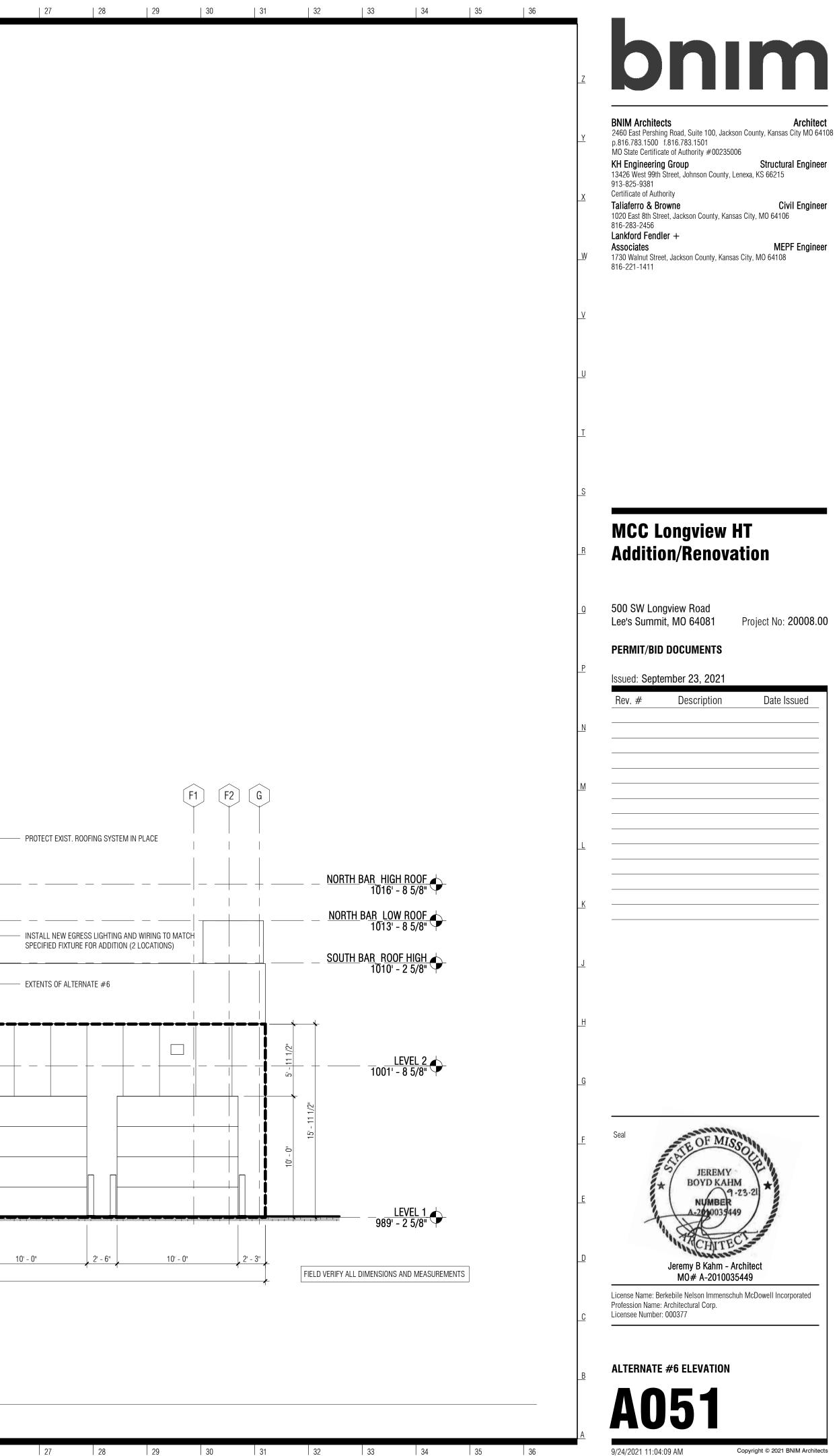
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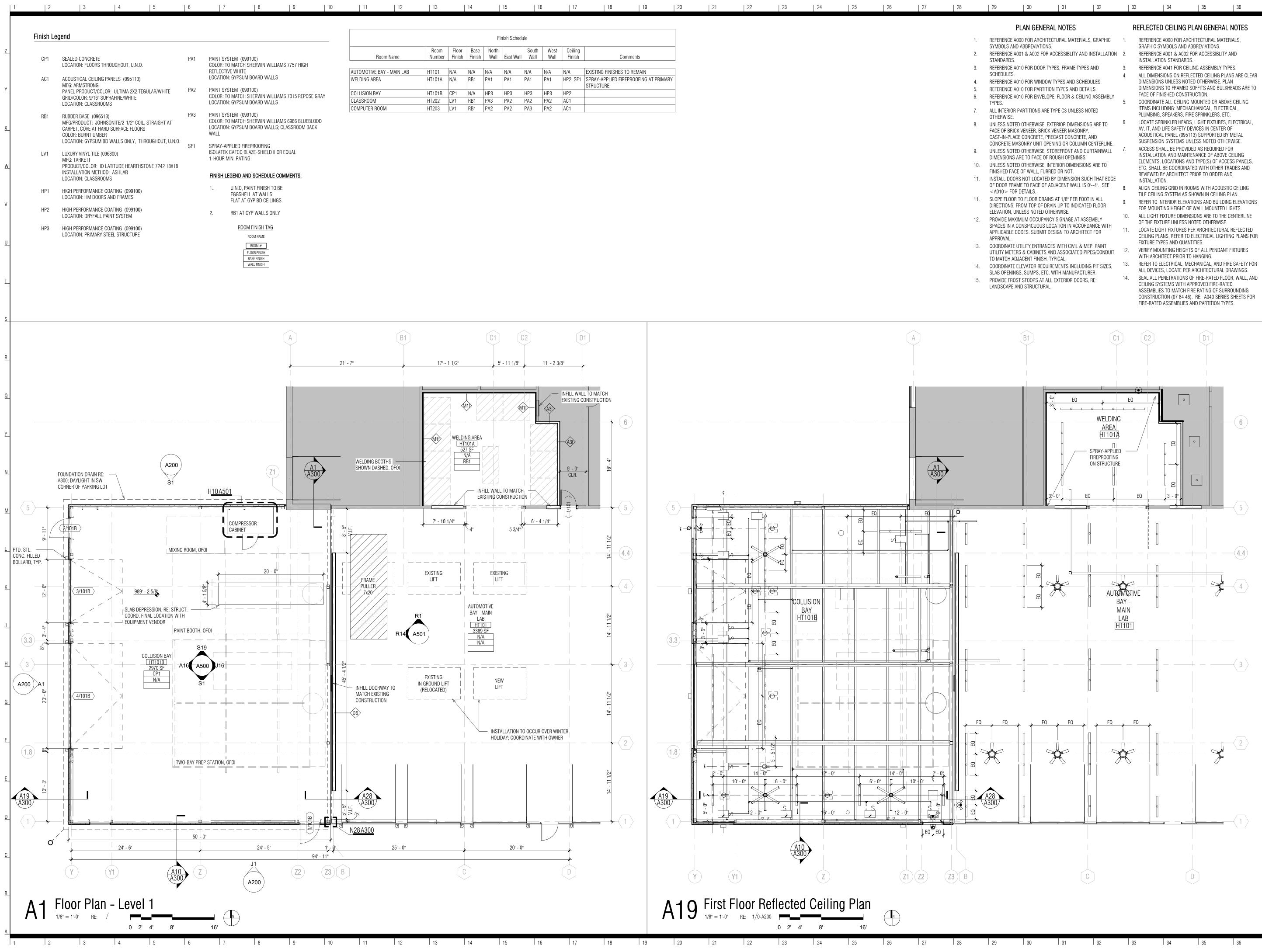
D2

REPLACE EXIST. DOOR AND HARDWARE IN KIND

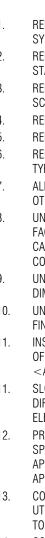
DOOR SCOPE (2 LOCATIONS)

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





	Fin	iish Schedu	ıle			
Base	North		South	West	Ceiling	
Finish	Wall	East Wall	Wall	Wall	Finish	Comments
		1		Ľ		
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	



PLAN GENERAL NOTES		REFLECTED CEILING PLA
REFERENCE A000 FOR ARCHITECTURAL MATERIALS, GRAPHIC SYMBOLS AND ABBREVIATIONS.	1.	REFERENCE A000 FOR ARCHIT GRAPHIC SYMBOLS AND ABBF
REFERENCE A001 & A002 FOR ACCESSIBLITY AND INSTALLATION STANDARDS.	2.	REFERENCE A001 & A002 FOR INSTALLATION STANDARDS.
REFERENCE A010 FOR DOOR TYPES, FRAME TYPES AND	3.	REFERENCE A041 FOR CEILING
SCHEDULES. REFERENCE A010 FOR WINDOW TYPES AND SCHEDULES. REFERENCE A010 FOR PARTITION TYPES AND DETAILS. REFERENCE A010 FOR ENVELOPE, FLOOR & CEILING ASSEMBLY	4.	ALL DIMENSIONS ON REFLECT DIMENSIONS UNLESS NOTED DIMENSIONS TO FRAMED SOF FACE OF FINISHED CONSTRUC
TYPES. ALL INTERIOR PARTITIONS ARE TYPE C3 UNLESS NOTED OTHERWISE.	5.	COORDINATE ALL CEILING MO ITEMS INCLUDING: MECHACH, PLUMBING, SPEAKERS, FIRE S
JNLESS NOTED OTHERWISE, EXTERIOR DIMENSIONS ARE TO FACE OF BRICK VENEER, BRICK VENEER MASONRY, CAST-IN-PLACE CONCRETE, PRECAST CONCRETE, AND	6.	LOCATE SPRINKLER HEADS, LI AV, IT, AND LIFE SAFETY DEVIC ACOUSTICAL PANEL (095113) SUSPENSION SYSTEMS UNLES
CONCRETE MASONRY UNIT OPENING OR COLUMN CENTERLINE. JNLESS NOTED OTHERWISE, STOREFRONT AND CURTAINWALL DIMENSIONS ARE TO FACE OF ROUGH OPENINGS. JNLESS NOTED OTHERWISE, INTERIOR DIMENSIONS ARE TO	7.	ACCESS SHALL BE PROVIDED INSTALLATION AND MAINTENA ELEMENTS. LOCATIONS AND T
FINISHED FACE OF WALL, FURRED OR NOT. NSTALL DOORS NOT LOCATED BY DIMENSION SUCH THAT EDGE OF DOOR FRAME TO FACE OF ADJACENT WALL IS 0'4". SEE		ETC. SHALL BE COORDINATED REVIEWED BY ARCHITECT PRIC INSTALLATION.
<a010> FOR DETAILS.</a010>	8.	ALIGN CEILING GRID IN ROOM
SLOPE FLOOR TO FLOOR DRAINS AT 1/8" PER FOOT IN ALL DIRECTIONS, FROM TOP OF DRAIN UP TO INDICATED FLOOR ELEVATION, UNLESS NOTED OTHERWISE.	9.	REFER TO INTERIOR ELEVATION FOR MOUNTING HEIGHT OF W
PROVIDE MAXIMUM OCCUPANCY SIGNAGE AT ASSEMBLY SPACES IN A CONSPICUOUS LOCATION IN ACCORDANCE WITH	10. 11.	ALL LIGHT FIXTURE DIMENSIO OF THE FIXTURE UNLESS NOTE LOCATE LIGHT FIXTURES PER A
APPLICABLE CODES. SUBMIT DESIGN TO ARCHITECT FOR APPROVAL.	11.	CEILING PLANS, REFER TO ELE FIXTURE TYPES AND QUANTITI
COORDINATE UTILITY ENTRANCES WITH CIVIL & MEP. PAINT JTILITY METERS & CABINETS AND ASSOCIATED PIPES/CONDUIT FO MATCH ADJACENT FINISH, TYPICAL.	12.	

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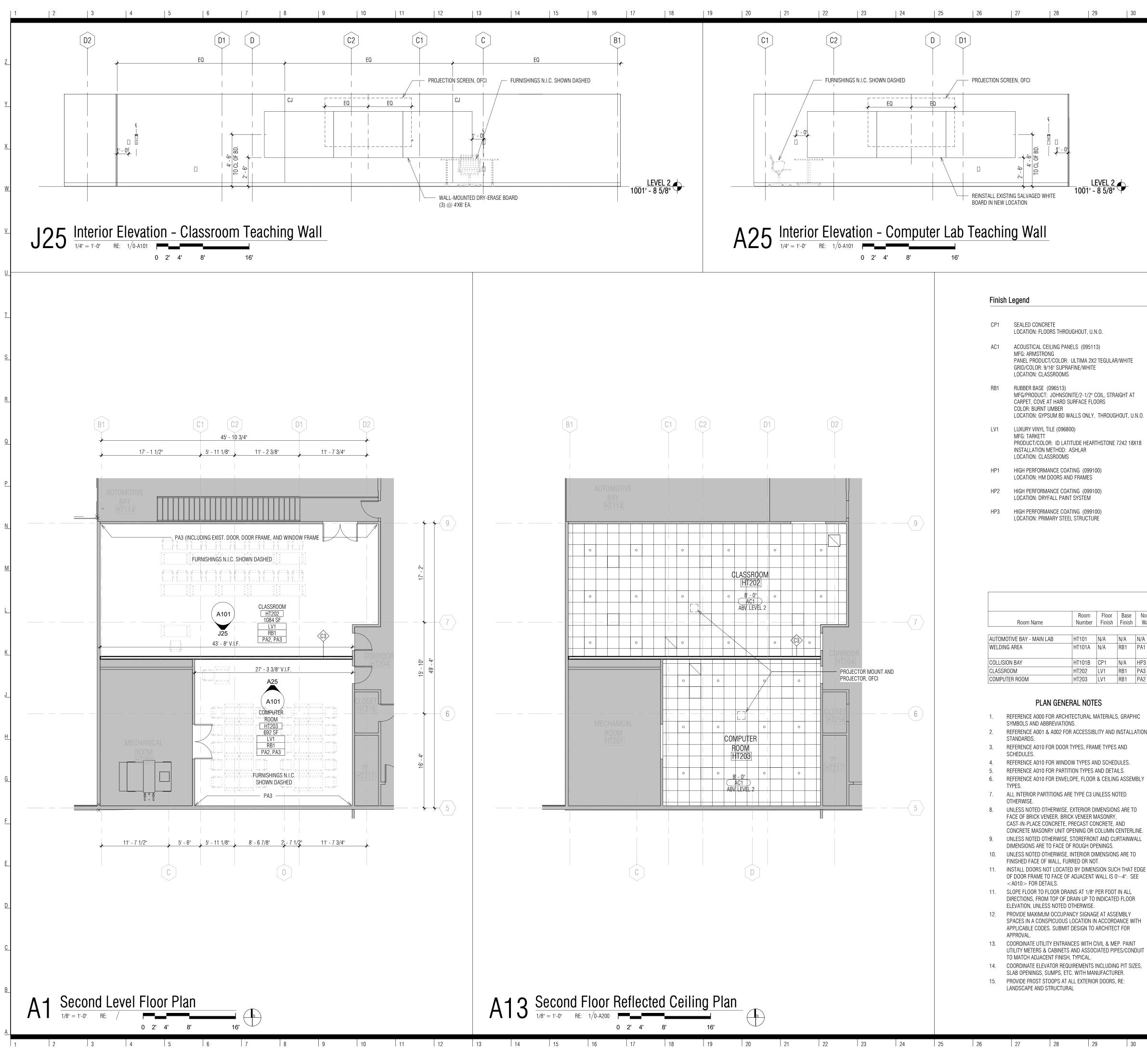
- Architect 2460 East Pershing Road, Suite 100, Jackson County, Kansas City MO 64108 p.816.783.1500 f.816.783.1501 MO State Certificate of Authority #00235006
- KH Engineering Group Structural Engineer 13426 West 99th Street, Johnson County, Lenexa, KS 66215 913-825-9381
- Certificate of Authority
- 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

Rev. #	Description	Date Issued
Seal		
Seal	SE OF MISS	
Seal	N	CLIP CON
Seal	JEREMY BOYD KAHM	E
Seal	JEREMY BOYD KAHM 9-2 NUMBER	3-21 *
Seal	JEREMY BOYD KAHM	E
Seal	JEREMY BOYD KAHM 9-2 NUMBER	E
Seal	JEREMY BOYD KAHM 9-2 NUMBER A-2010035449	3.21
Seal	JEREMY BOYD KAHM NUMBER A-2010035449 CHITEC	3.22)
Whitemark	JEREMY BOYD KAHM NUMBER A-2010035449 CHITEC Jeremy B Kahm - Arc MO# A-20100354	3.2)
icense Name: B rofession Name	JEREMY BOYD KAHM NUMBER -200035449 CAITEC Jeremy B Kahm - Arc MO# A-20100354 erkebile Nelson Immenschut : Architectural Corp.	3.2)
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г, U.N 9511				C F	COLOR: TO REFLECTIVE	/STEM (099100) FO MATCH SHERWIN WILLIAMS 7757 HIGH IVE WHITE N: GYPSUM BOARD WALLS									
	TEGULAF	R/WHITE	Р	A2 F	PAINT SYST	EM (099 MATCH S	100)	LLIAMS 7015 RE	POSE GRAY						
1/2" (E FLO	COIL, STRA ORS	AIGHT AT		C	OCATION:	MATCH S	HERWIN WI	LLIAMS 6966 BL LLS; CLASSROON							
NLY,	THROUG	HOUT, U.	N.O. S	F1 S	SOLATEK C	AFCO BL) II OR EQUAL							
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						В	ASE FINISH VALL FINISH								
			Fi	nish Sched	ule										
om ber	Floor Finish	Base Finish	North Wall	East Wall	South	West Wall	Ceiling Finish		Comments						
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A		HES TO REMAIN						
1A 1B	N/A CP1	RB1 N/A	PA1 HP3	PA1 HP3	PA1 HP3	PA1 HP3	HP2, SF1 HP2	SPRAY-APPLIE STRUCTURE	D FIREPROOFING A	AT PRIMARY					
2 3	LV1 LV1	RB1 RB1	PA3 PA2	PA2 PA2	PA2 PA3	PA2 PA2	AC1 AC1								
IOTE	ES					REFL	.ected (Ceiling Plai	N GENERAL N	OTES					
AL N	IATERIALS	S, GRAPH	IIC		1.			00 FOR ARCHITE 30LS AND ABBRI	CTURAL MATERIA	LS,					
SSIBI	_ity and I	INSTALL/	ATION		2.	REF	ERENCE AC		ACCESSIBLITY ANI)					
	ME TYPES				3. 4.	ALL	DIMENSIO	NS ON REFLECTE	ASSEMBLY TYPES D CEILING PLANS						
PES /	ND SCHED AND DETA	ILS.				DIN	IENSIONS T	0 FRAMED SOFF	THERWISE. PLAN ITS AND BULKHEA	DS ARE TO					
	& CEILIN		1BLY		5.	C00	ORDINATE A		ION. NTED OR ABOVE C NICAL, ELECTRICA						
სა ()	NLESS NO	νιlu							PRINKLERS, ETC.						

6. LOCATE SPRINKLER HEADS, LIGHT FIXTURES, ELECTRICAL,

AV, IT, AND LIFE SAFETY DEVICES IN CENTER OF

REVIEWED BY ARCHITECT PRIOR TO ORDER AND

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

11. LOCATE LIGHT FIXTURES PER ARCHITECTURAL REFLECTED

12. VERIFY MOUNTING HEIGHTS OF ALL PENDANT FIXTURES

13. REFER TO ELECTRICAL, MECHANICAL, AND FIRE SAFETY FOR

14. SEAL ALL PENETRATIONS OF FIRE-RATED FLOOR. WALL. AND

CEILING SYSTEMS WITH APPROVED FIRE-RATED

FIRE-RATED ASSEMBLIES AND PARTITION TYPES.

ALL DEVICES, LOCATE PER ARCHITECTURAL DRAWINGS.

ASSEMBLIES TO MATCH FIRE RATING OF SURROUNDING CONSTRUCTION (07 84 46). RE: A040 SERIES SHEETS FOR

34 35

36

CEILING PLANS, REFER TO ELECTRICAL LIGHTING PLANS FOR

OF THE FIXTURE UNLESS NOTED OTHERWISE.

FIXTURE TYPES AND QUANTITIES.

WITH ARCHITECT PRIOR TO HANGING.

7. ACCESS SHALL BE PROVIDED AS REQUIRED FOR

INSTALLATION.

32 33

| 30 | 31

ACOUSTICAL PANEL (095113) SUPPORTED BY METAL

SUSPENSION SYSTEMS UNLESS NOTED OTHERWISE.

INSTALLATION AND MAINTENANCE OF ABOVE CEILING

ELEMENTS. LOCATIONS AND TYPE(S) OF ACCESS PANELS,

ETC. SHALL BE COORDINATED WITH OTHER TRADES AND

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

bnim

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

Architect

Structural Engineer

Civil Engineer

BNIM Architects

p.816.783.1500 f.816.783.1501

KH Engineering Group

913-825-9381

816-283-2456

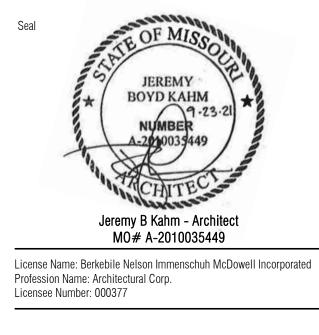
Certificate of Authority

Taliaferro & Browne

MO State Certificate of Authority #00235006

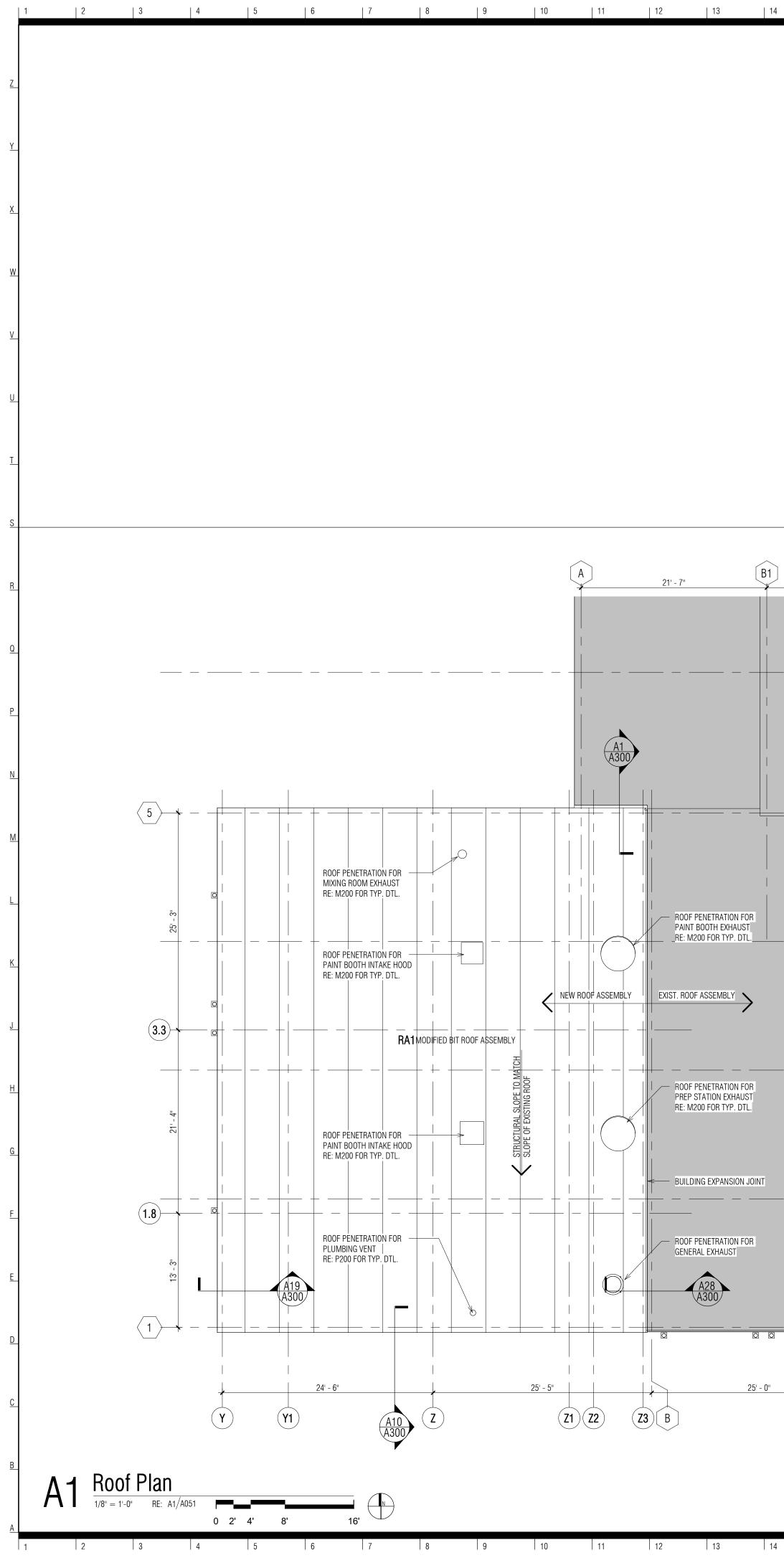
13426 West 99th Street, Johnson County, Lenexa, KS 66215

1020 East 8th Street, Jackson County, Kansas City, MO 64106



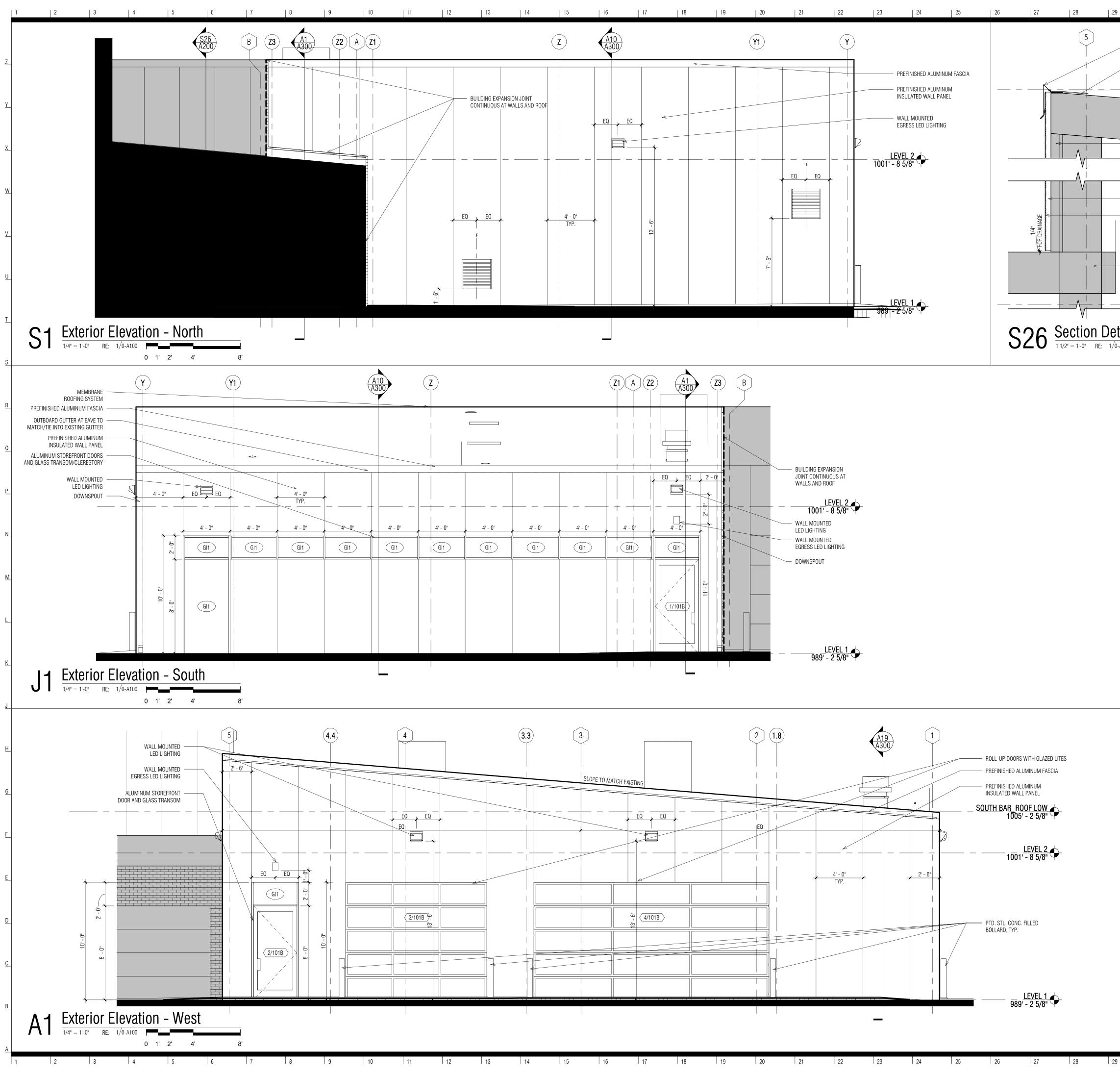
FLOOR PLAN

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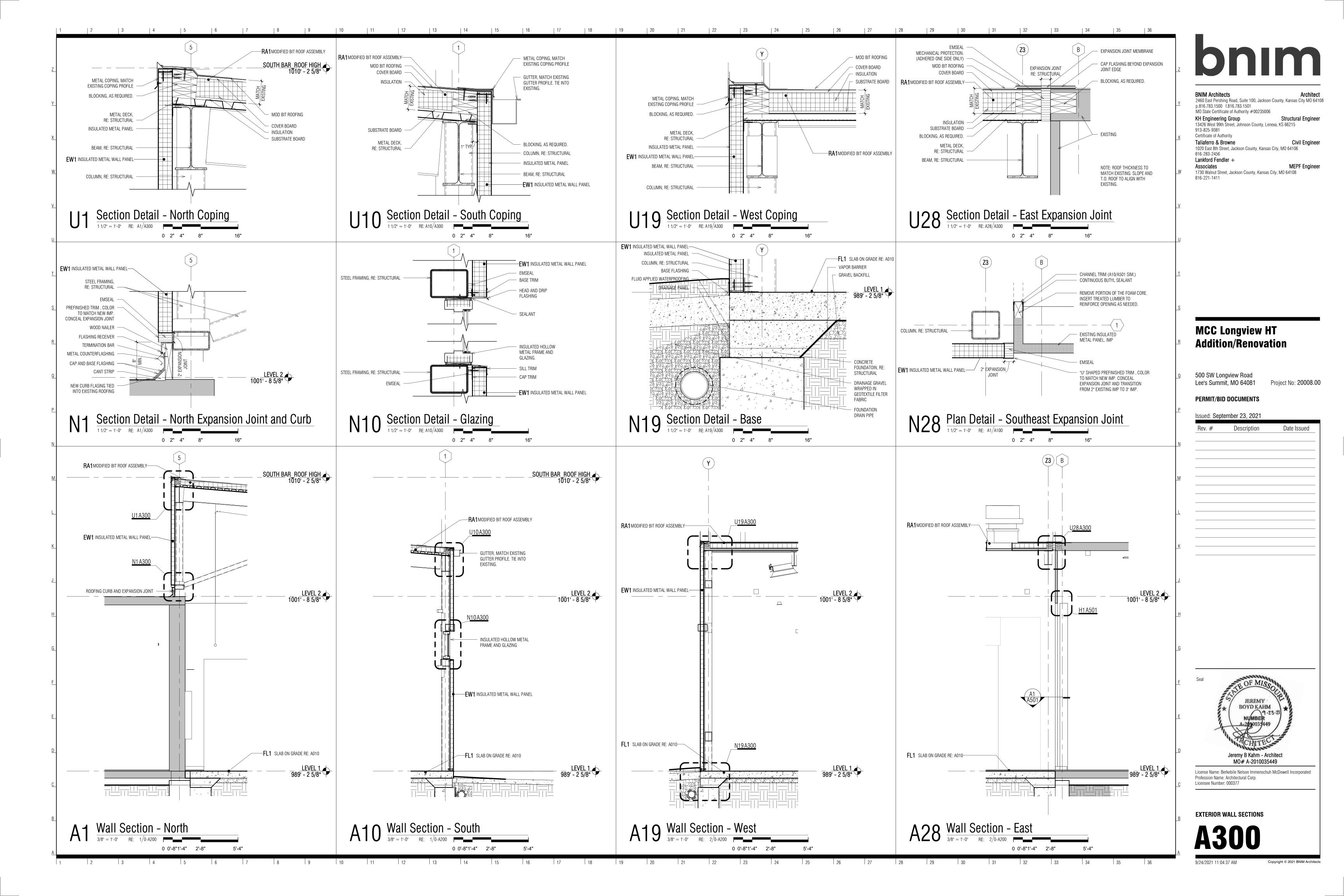


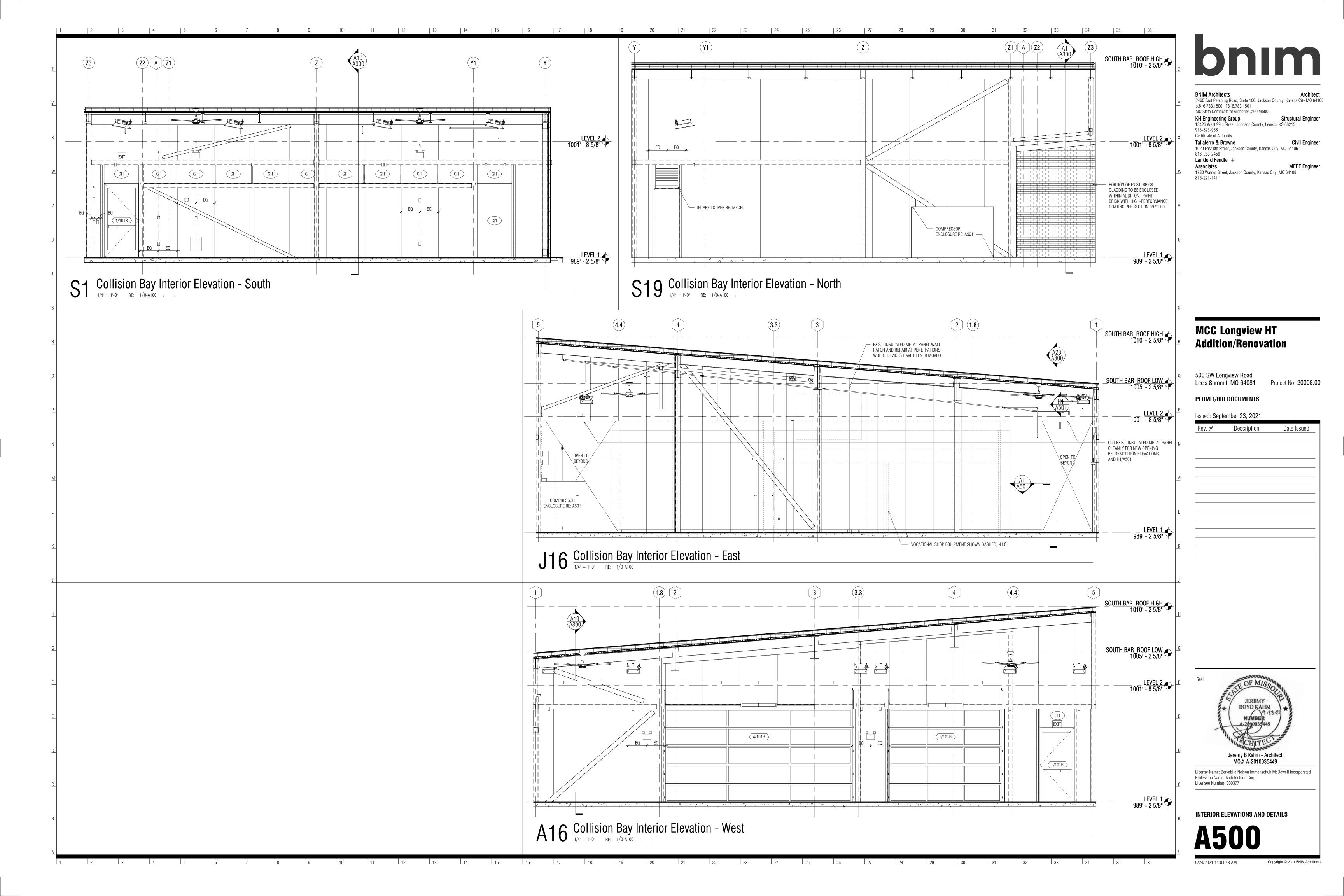
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		6 17				25		28 29	30	31 32	 PENETRATIONS. 9. PROVIDE MIMIMUM INSULATION THICKNESS PER SPECIFICATIONS, TAPER SHALL BE IN ADDITION TO THE MINIMUM THICKNESS. 10. ROOFTOP EQUIPMENT AND ITEMS REQUIRING MAINTENANCE / ACCESS SHALL NOT BE INSTALLED WITHIN 10 FEET OF THE PRIMARY ROOF EDGE EXCEPT WHERE OSHA COMPLIANT FALL PROTECTION IS INDICATED. 11. WHERE FALL PROTECTION IS INDICATED, SEAL AND 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 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 	r boots of the second s
											 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. 15. PROVIDE CONTINOUS PERIMETER FIRE CONTAINMENT 	S
B1	17' - 1 1/2"	C1 5' - 11 1/8" C2	11' - 2 3/8" D1 11	- 7 3/4" D2 D3	17' - 1 1/2"	E1	27' - 8 1/2"	F1			SYSTEM (078466) AT PERIMETER OF ROOF SLABS, BETWEEN ROOF SLABS AND WALL PANELS OR ROOF SLABS AND GLAZING SYSTEMS.	MCC Longview HT Addition/Renovation
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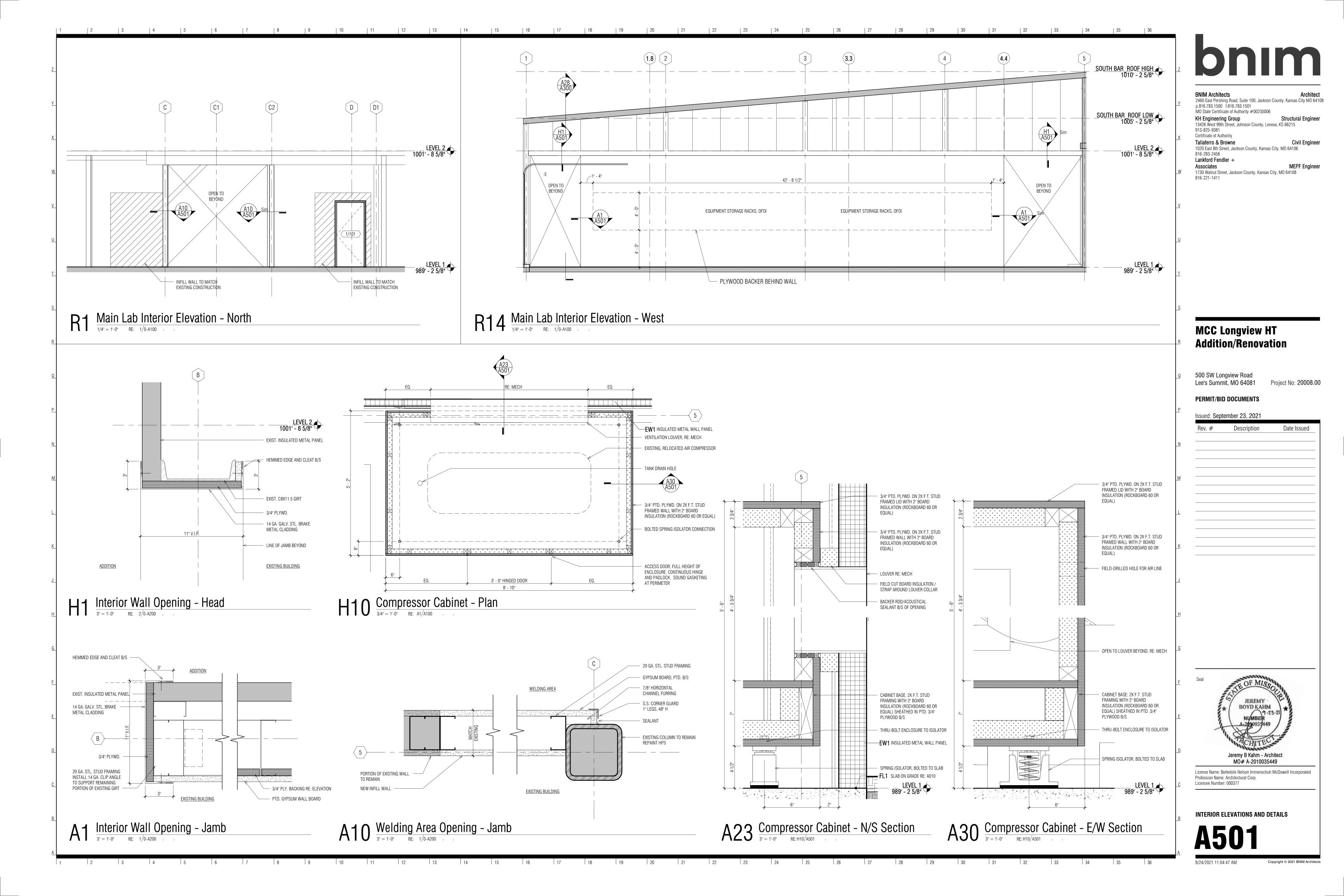
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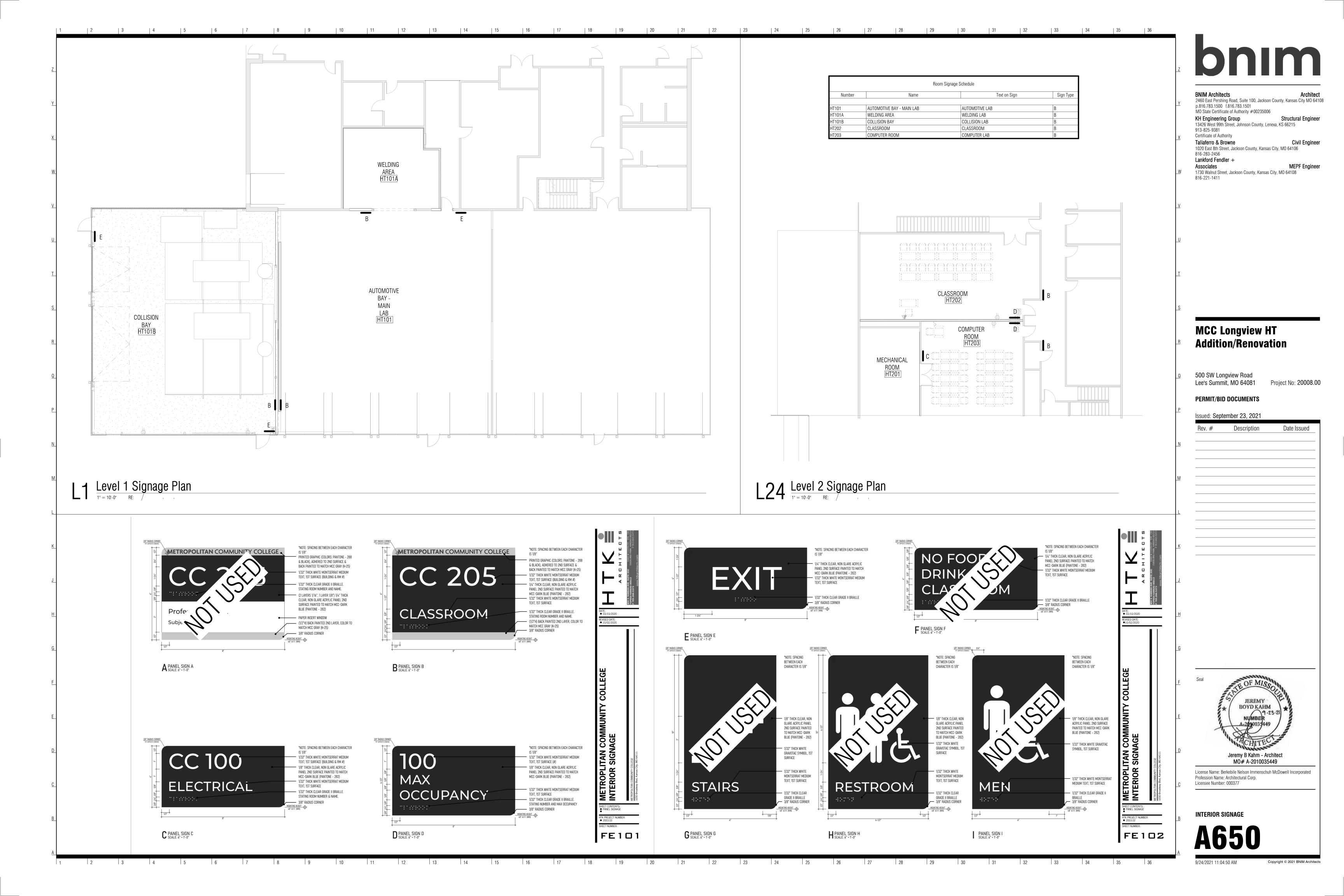


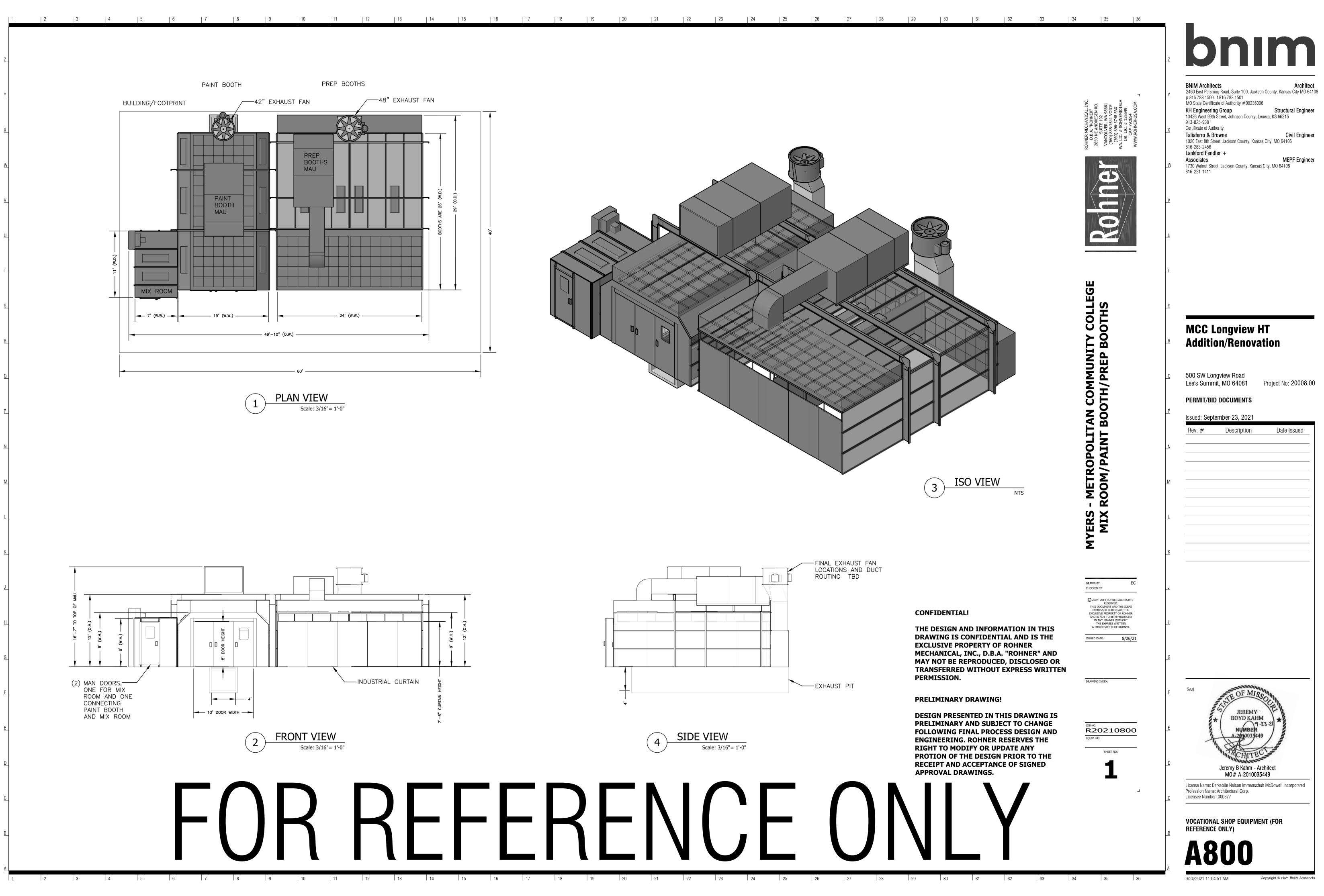
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 EXISTING 2" INSULAT WALL PANEL 	ION METAL						13426 West 99th Street, Johnson County, Lenexa, 913-825-9381 Certificate of Authority Taliaferro & Browne 1020 East 8th Street, Jackson County, Kansas City 816-283-2456 Lankford Fendler +	Civil Engined
- FURRING HAT CHANN	IEL						Associates 1730 Walnut Street, Jackson County, Kansas City, 816-221-1411	MEPF Engine MO 64108
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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 a.
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".			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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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 Structural Engineer KH Engineering Group

Architect

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

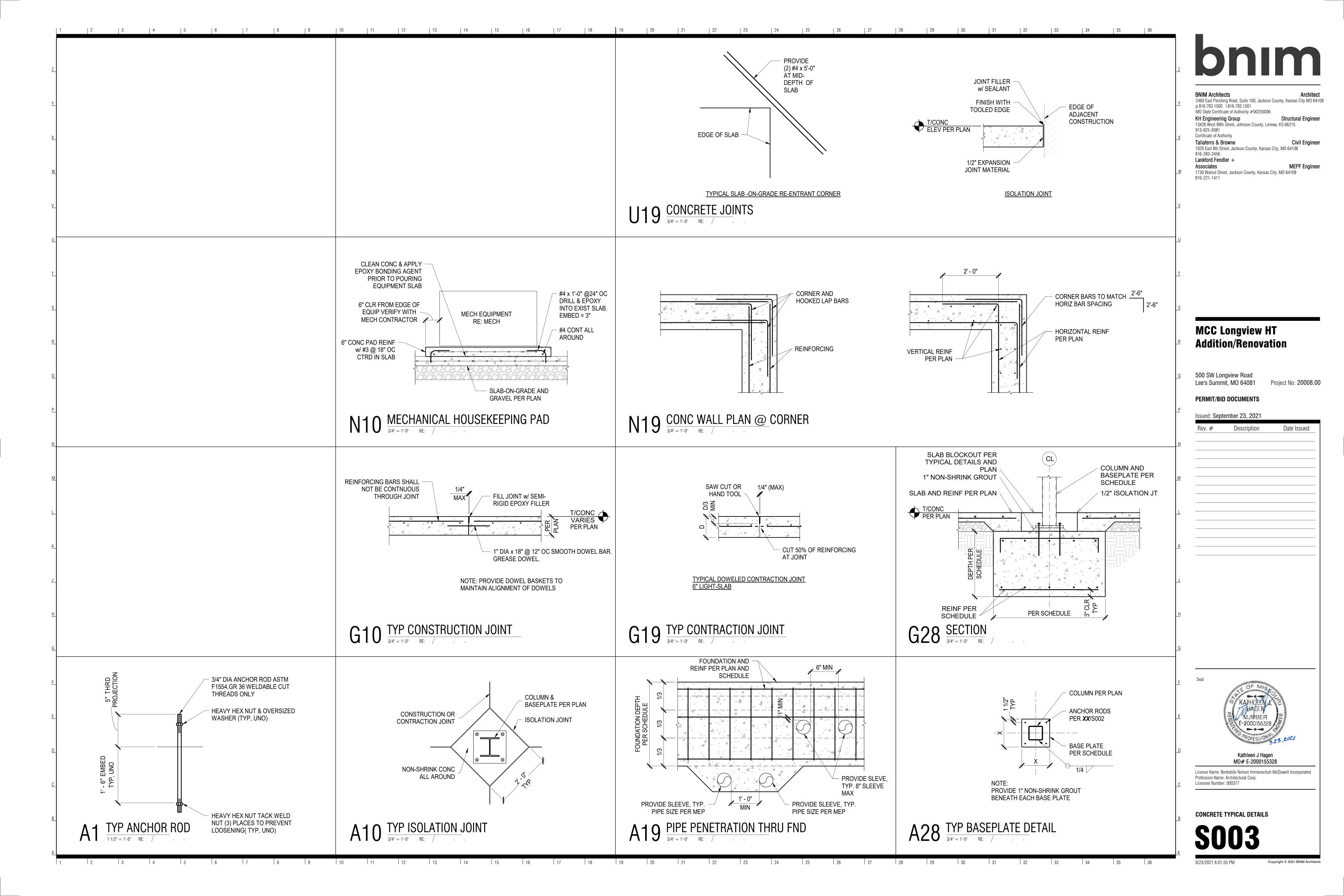
MCC Longview HT Addition/Renovation

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

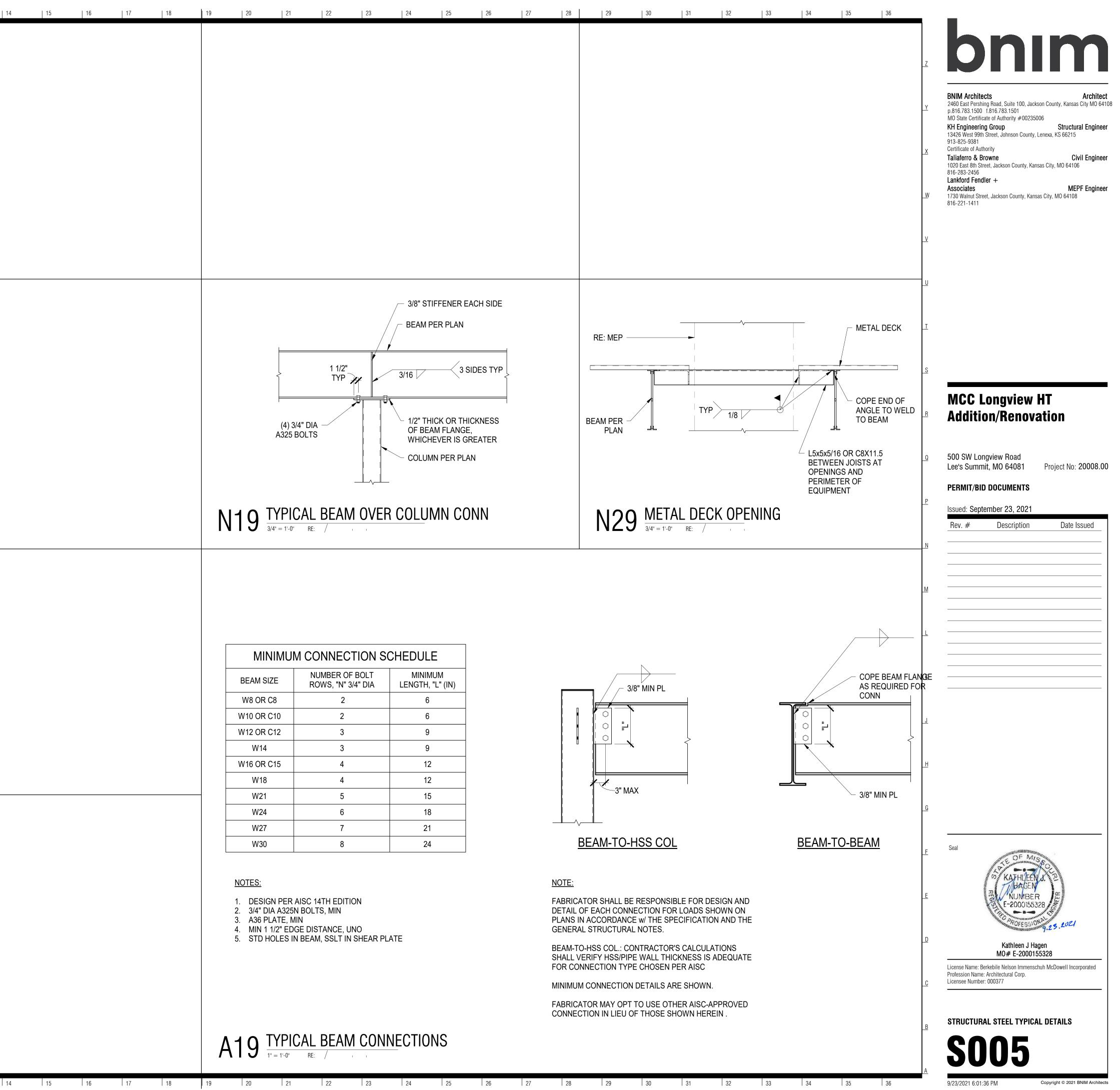
PERMIT/BID DOCUMENTS

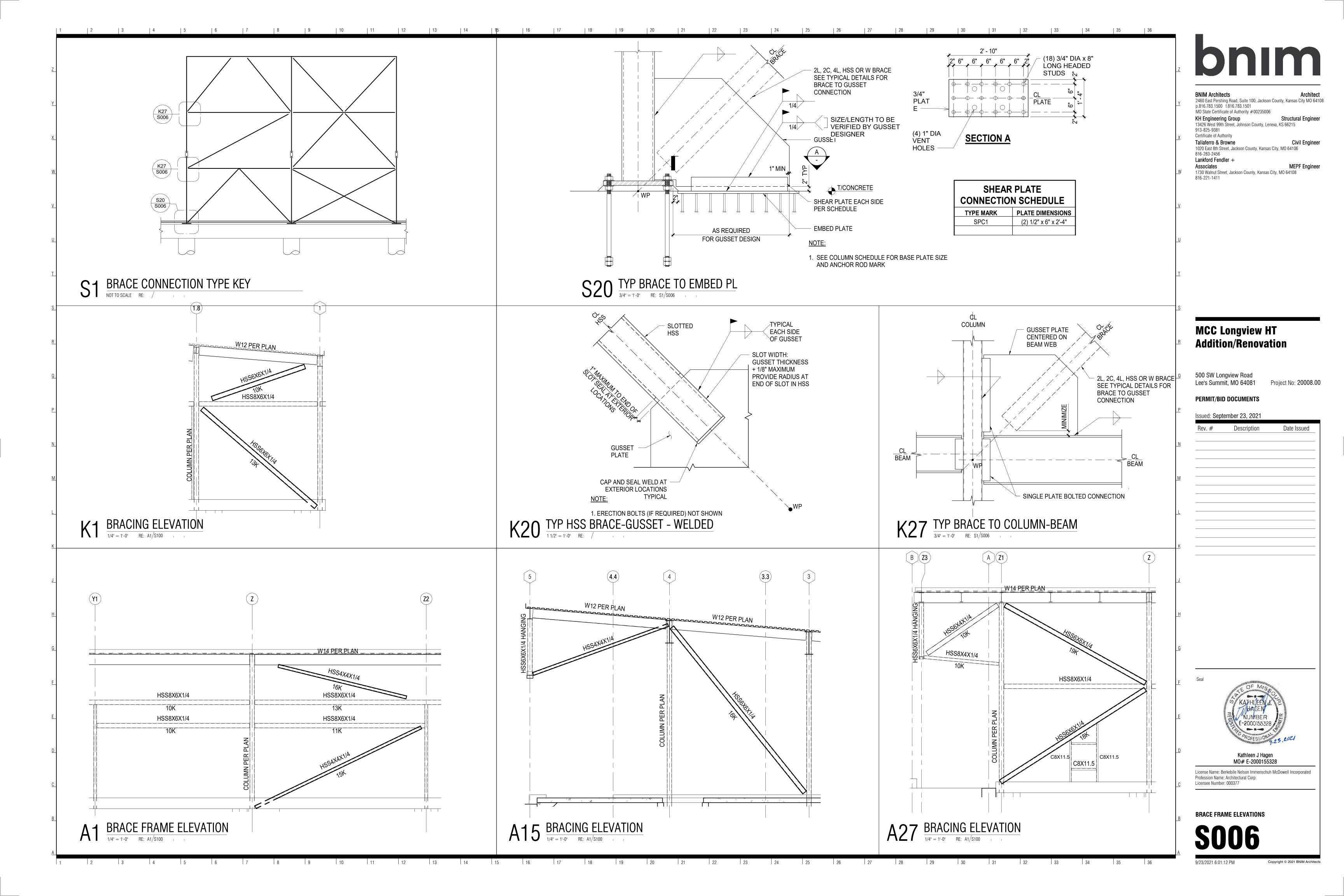
Issued: September 23, 2021

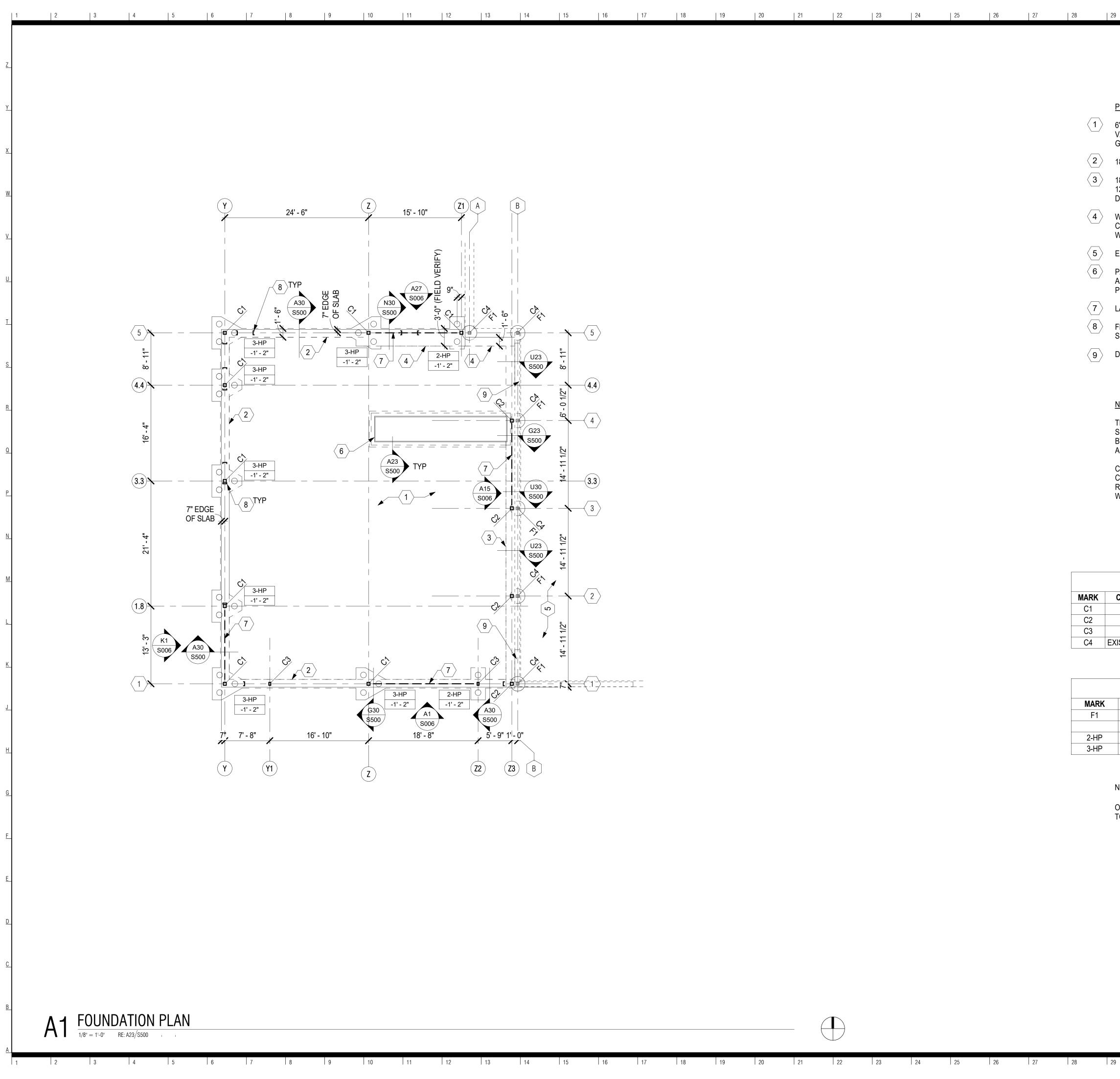
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	PLAN NOTES:
	6" CONCRETE SLAB-ON-GRADE w/ #4 @ 12" OC EW CTRD IN SLAB ON 15 M VAPOR BARRIER ON 6" CLEAN GRAVEL FILL ON PROPERLY COMPACTED S GRADE. T/CONC = 989'-2 5/8" +/- MATCH EXISTING, SLOPE PER ARCH
	2 18" x 36" CONT FOOTING w/ (3) #6 T&B AND #3 TIES @ 12" OC
	 18" x 32" (MATCH EXISTING DEPTH) CONT FOOTING w/ (3) #6 T&B AND #3 TI 12" OC. CONTINUE FOOTING OVER EXISTING PIERS AND PROVIDE (2) #6 x DOWELS AT EACH PIER. EPOXY GROUT 8" INTO EXISTING PIER.
	(4) WIDEN 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
	5 EXISTING BUILDING
	6 PAINT BOOTH PIT PER MANUFACTURER. PROVIDE CONTINUOUS LEDGE ANGLE AND SHIM PLATE PER DETAILS AS REQUIRED PER MANUFACTURE PROVIDE 8" THICK BASE SLAB w/ #6 @ 12" OC EW
	7 LATERAL BRACING PER ELEVATIONS
- $ 5$	8 FRAME ALL DOORS AND WALL OPENINGS w/ C8X11.5 CHANNELS ON ALL SIDES. SEE ARCH AND MECHANICAL DRAWINGS FOR OPENINGS REQUIRE
	9 DEMO EXISTING CURB PER ARCH
- (4.4)	
0 112.	NOTES:
	THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE BASED OI SURVEYS MADE BY THE CONSULTANT(S) AS WELL AS MATERIAL PROVIDE BY THE OWNER AND NO CLAIM IS MADE TO ITS ABSOLUTE COMPLETENES AND/OR ACCURACY.
	CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. CONTRACTOR SHA REPORT AN INCONSISTENCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
$\cdot \rightarrow 3$	
12/1 11-14/ 3	STRUCTURAL COLUMN SCHEDULE
	MARK COLUMN SIZE BASE PLATE ANCHOR BOLTS
14' - 11 1/2"	
12"	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 C3 HSS6x4x1/4 3/4" x 10" x 1'-0" (4) 3/4" DIA x 1'-6" EMBED
14-1112	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 C3 HSS6x4x1/4 3/4" x 10" x 1'-0" (4) 3/4" DIA x 1'-6" EMBED C4 EXISTING COLUMN
14-1112	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 C3 HSS6x4x1/4 3/4" x 10" x 1'-0" (4) 3/4" DIA x 1'-6" EMBED C4 EXISTING COLUMN
17. 11.12 2 	MARKCOLUMN SIZEBASE PLATEANCHOR BOLTSC1HSS6x6x1/43/4" x 12" x 1'-0"(4) 3/4" DIA x 1'-6" EMBEDC2HSS6x6x1/43/4" x 10" x 1'-0"(4) 3/4" DIA x 1'-6" EMBEDC3HSS6x4x1/43/4" x 10" x 1'-0"(4) 3/4" DIA x 1'-6" EMBEDC4EXISTING COLUMNSTRUCTURAL FOUNDATION SCHEDULEMARKFOOTING SIZEDEPTHREINFORCEMENT
112.	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 C3 HSS6x4x1/4 3/4" x 10" x 1'-0" (4) 3/4" DIA x 1'-6" EMBED C4 EXISTING COLUMN (4) 3/4" DIA x 1'-6" EMBED C4 EXISTING COLUMN C4 EXISTING COLUMN
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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 Group Structural Engineer 13426 West 99th Street, Johnson County, Lenexa, KS 66215

1020 East 8th Street, Jackson County, Kansas City, MO 64106

1730 Walnut Street, Jackson County, Kansas City, MO 64108

Civil Engineer

MEPF Engineer

913-825-9381 Certificate of Authority Taliaferro & Browne

816-283-2456 Lankford Fendler +

Associates

816-221-1411

NUMBER OF PILES -

HP = HEALICAL PILE (+/- 9 KIP CAPACITY)

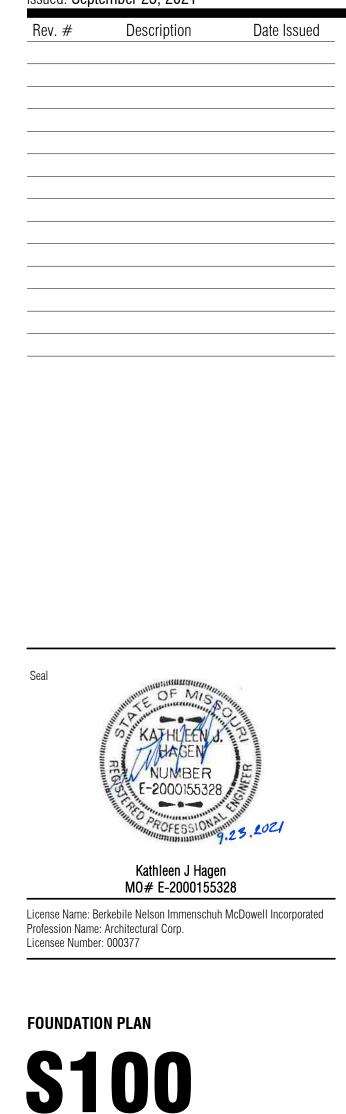
OFFSET FROM TOP OF SLAB — -1' - 0" - DIA PILE 1'-3" MIN ALL SIDES

MCC Longview HT **Addition/Renovation**

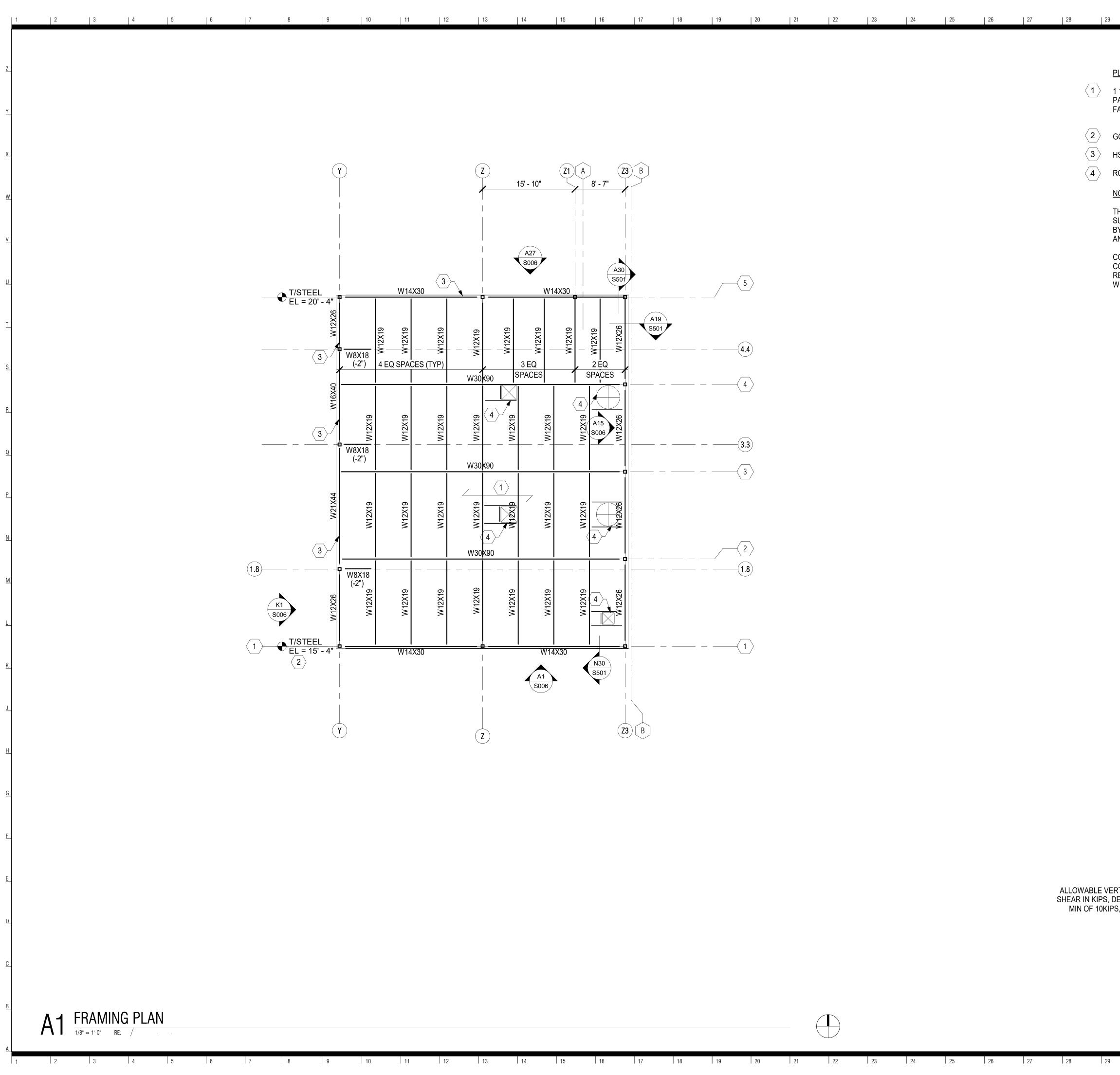
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ALLOWABLE VERTICAL SHEAR IN KIPS, DESIGN MIN OF 10KIPS, UNO

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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.

GC TO VERIFY TOP OF STEEL AND ADJUST TO MATCH EXIST PER ARCH.

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

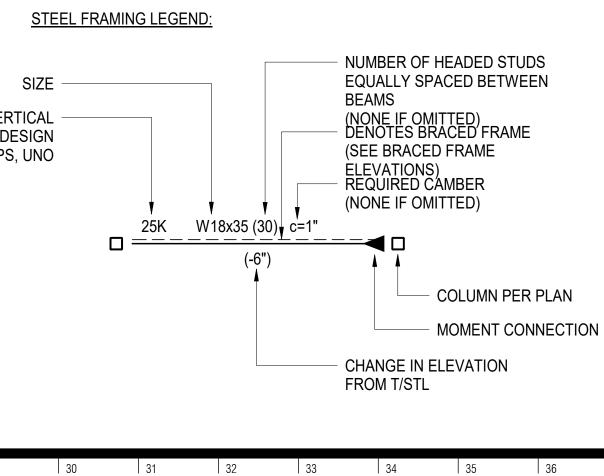
ROOF PENETRATIONS PER ARCH & MECH. FRAME PER N29/S004

NOTES:

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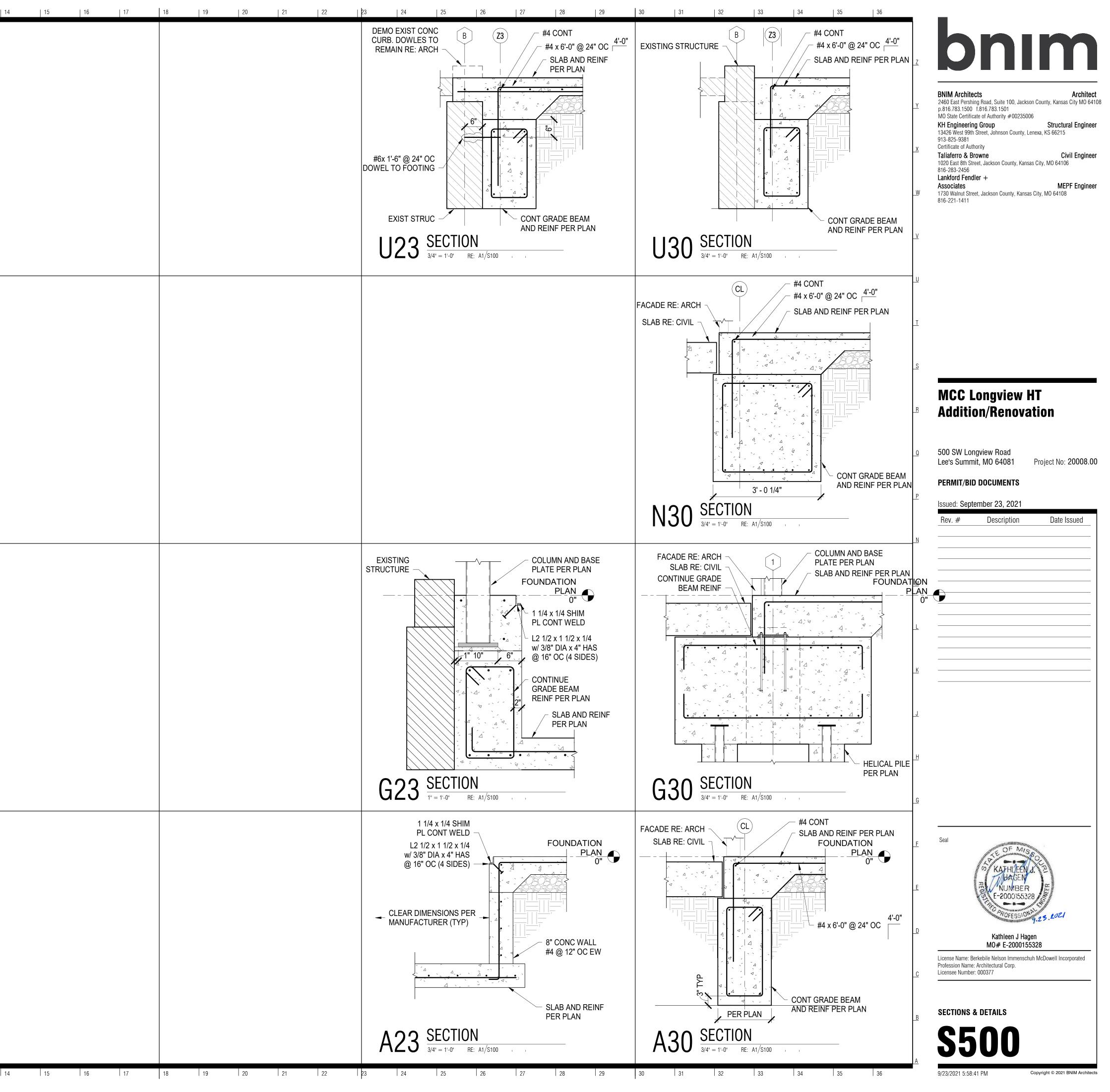




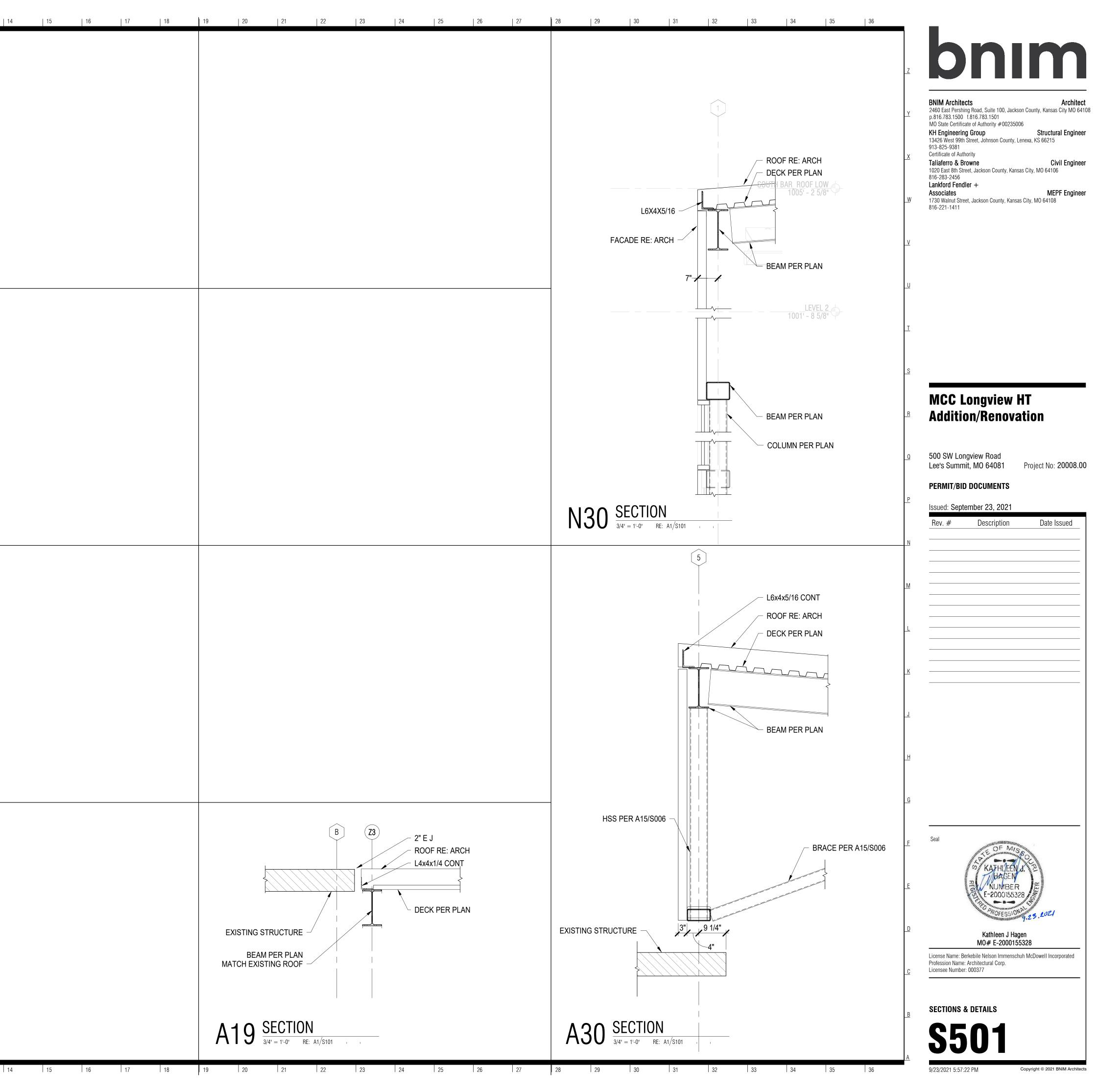
FRAMING PLAN

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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
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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:						
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						6.0		NDITIONS:						
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						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
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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, CONTROLS AND FIRE ALARM INTERFACE:	
	Α.	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 under this specification shall be recognized manufacturer and of adequate capacity for the loads involved. All motors shall conform to the standards of manufacturer and performance of the National Electrical Manufacturers Association as shown in their latest publications.	
Contract Document.	B.	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 documentation, allowing adequate time for appropriate action. The products of other manufacturers may be	B.	All motors 3/4 hp and above shall be high efficiency. Provide ECM motors where indicated. Any motor indicated for use with Variable Frequency Drives (VFD) shall be specifically designed for compatibility.	, ,
aratuses, and incidentals uired, the Contractor shall l assume full responsibility		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 items specified were intended. The burden of proof of equality is entirely upon the proposer.	C.	Disconnects and motor starters for equipment shall be by the Electrical Contractor unless furnished integral with the equipment or as otherwise indicated. Installation shall be by the Electrical Contractor except for devices factory installed and shipped with equipment. Provide manual or magnetic starters with necessary	
Documents.	C.	Refer to Division 1 requirements for additional substitution procedures.		auxiliary contacts to accomplish the specified or required sequence of operation.	_;
des currently in force of all es, or other requirements r code requirements, the	D.	Wherever substitutions alter the design or space requirements, the Contractor shall be responsible for 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.	D. E.	All temperature controls unless noted otherwise shall be the responsibility of the Mechanical Contractor. All fire alarm devices including duct smoke detector and shut down/interlock wiring shall be the responsibility of the Electrical or Fire Alarm Contractor otherwise noted.	,
ocal codes, acceptable to Il Code shall apply to this	12.0	SHOP DRAWINGS AND PRODUCT DATA:	18.0	PIPING IN ELECTRICAL ROOMS:	
cipal 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 specifically noted otherwise will be permitted in Electrical Rooms or Data Rooms including Server Rooms and IT Closets. In rooms where piping is indicated over or near electrical equipment, a suitable galvanized sheet metal pan or gutter piped to the drainage system shall be provided.	,
which the project is located.	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	
A Accessibility Guidelines.	C.	Refer to Architectural Documents for additional shop drawing submission procedures.			
entilation codes in force at	13.0	PROJECT CLOSEOUT DOCUMENTATION			-
	Α.	Operating and Maintenance Brochure:			
ut of the various items of rily indicate every required s required for a complete		 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. 			
the representation of the	В.	Record Drawings:		-	
ork. 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. 			
trades involved, prior to space or routing.		2. The Contractor shall submit record drawings electronically in PDF format (unless otherwise instructed).			
	14.0	FOUNDATIONS AND SUPPORTS:			
materials and equipment a minimum period of one ovide extended warranties	А.	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.			
earance when completed, function 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.			N
local conditions, 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.			
	15.0	CUTTING AND PATCHING:			
awings and specifications sed 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.			
uch examination, to have sts in his proposal. Failure additional compensation.	16.0	SLEEVES AND ESCUTCHEONS:			
	Α.	Penetrations thru walls and floors shall be as detailed.			_
maintenance of all new	В.	Where not otherwise shown, penetrations shall conform to the following:			
npleted project. Warranty sentative. to provide for and protect ting facilities is specifically		 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. 			
	C.	Sleeves through interior non-rated walls, including walls indicated as sound partitions, shall be packed with fiberglass or mineral wool and caulked.			
gulations, 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.			
stored 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.			
ily 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.			
sult of his work.					
ntract. System "downtime" ative shall judge if at what				Lankford Fendler	
order to keep all existing				-tes	
sitated for access to work e Contractor.				1730 Walnut Street 816.221.1411 Kansas City, Missouri 64108 Fax: 816.221.1429 COPYRIGHT © 2021 LANKFORD FENDLER+ ASSOCIATES, INC. L F+a Project No. 21.6807.00 Alan W. Lankford - Mechanical Engineer - MO #024224 COA #2006001168	
14 15 1	5	17 18 19 20 21 22 23 24 25 26	2	27 28 29 30 31 32 33 34 35 36	<u> </u>



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D		Sept. 23, 20	
C	Profession Name	Gregory J. Fendler : MEP Consulting Engineers r: PE-2006037230	
<u>C</u> <u>B</u>	Profession Name Licensee Numbe	: MEP Consulting Engineers r: PE-2006037230	^

						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	oosed 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	9 60	HEATIN
		w	ith duct and	removed.	asketed duct				•		А.	Air cond
	D.	Duct Fi		anis anu ya		joints are ex	vempted in		ealant lequi	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
												complete
											E.	Devices directed.
											F	All occur
											F. G.	All occup

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,	A.	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. а. 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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n of equij ge or uni		its service v	alve. Copp	er to				Y
l be rateo BAg-35 a	t for 700 PS alloy or acce	oper or bras IG at 170F. eptable equa	al.					X
be in	strict acco	rdance with , traps and	manufactu	urer's				
		ged during b n manufactu	•					W
	•	efrigerant cl responsible	0 0					V
n fittings	with thread	ed or flanged	d joints for pi	ping.				U
with chrc	ome plated I	oall'.						S
ed pipin	g systems	to accomm	odate insul	ation				<u>R</u>
Fed Sp	ec WW-H-1	l support me 71E and A-/ ed pipe slop	A-1192A.					Q
	•	31 are not e ring on anot		alled				<u>P</u>
ng span piping su clamps, c proper s	pport. channels, ro support of al	cated in MS ods, guides, Il pipe lines. ts including	anchors, fle Trapeze ma	exible ay be				N
angers w	here requir	ed to preve	nt electrolys	sis or				M
		e structure. ates, rods, o						
		nes and sha I blocking w		•				L
y shall b	e a complet	ivironments e assembly nts by Gripp	including ca	bles,				K
s. Adjus	t pipe rout	es unless o ing and dro nd other obs	p locations					J
								G
ed 3 lb. c th erosio	lensity fiber n protection	g ducts dov glass or text on all expo /2" thick line	ile liner with sed edges.					Ē
		minal – 1/2"						
••	ervation Co ts with all joi	de. nts sealed a	nd vapor ba	rriers				E
		omeric EPDI ropriate adh						D
ll fittings.		all service p above).	aper jacket	with	Lankford		Fendler	<u> C</u>
					L F+		816.221.1411 <u>x: 816.221.1429</u> ASSOCIATES, INC. 07.00	B

p.816.783.1500 MO State Certific	ng Road, Suite 100, Jack f.816.783.1501 ate of Authority #00235	
KH Engineerin 13426 West 99th 913-825-9381	g Group Street, Johnson County,	Structural Engineer Lenexa, KS 66215
Certificate of Auth Taliaferro & B	•	Civil Enginee
816-283-2456 Lankford Fend		
Associates 1730 Walnut Stre 816-221-1411	et, Jackson County, Kan	MEPF Enginee sas City, MO 64108
MCC L	ongview	HT
Additi	on/Renov	ation
500 SW Lor Lee's Summ	gview Road it, MO 64081	Project No: 20008.00
	DOCUMENTS	
lssued: Sept	ember 23, 2021	
Rev. #	Description	Date Issued
Seal	Que	
Seal	AND IN THE OWNER	
Seal	GREG	ORY J.
Seal	GREG FENI	ORY J. DER
Seal	GREG FENI NUM PE-2000	DRY J. DER
Seal	GREG FENI Sept. 23	
License Name: Profession Name	Sept. 23 Gregory J. Fendler MEP Consulting Enginee	2021
License Name: Profession Name	Sept. 23 Gregory J. Fendler	2021

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	 2-1/2 and larger – Schedule 40 black steel piping with weided hittings. 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:
А.	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 the
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

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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 +

Associates MEPF 1730 Walnut Street, Jackson County, Kansas City, MO 64108 MEPF Engineer 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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	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

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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

ts, 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

- 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

	210 100 FIRE PROTECTION	
1.0	SCOPE:	-
Α.	Fire protection shall be governed by all applicable provisions of the Contract Document.	
В.	Provide a complete and operational fire protection system as required by NFPA, systems shall include:	
	 Wet sprinkler system NFPA 13. Systems shall be compliant with NFPA 70, 72, FM and UL as applicable. 	
C.	All fire protection components shall be UL and FM approved devices where applicable as required by NFPA.	
D.	Upon completion of the work, system acceptance testing shall be performed by the sprinkler contractor in accordance with requirements of NFPA with a completed copy of 'Contractor's Material and Test Certificate' provided.)
E.	All cable ties for controls and other 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 equivalent.	_\
F.	Provide permanent identification of all valves, piping, electrical components and equipment in accordance with NFPA 13.	
G.	Contractor shall provide spare sprinklers in cabinet as required by NFPA.	\
Н.	Upon completion of the project, perform all flushing and testing of the system including pressure and flow tests and testing of all electrical, controls and safety components.	
Ι.	Upon completion of the project, the fire protection contractor shall furnish 'Record' documentation including plans, equipment data sheets for all component and testing results stored in a document cabinet, located adjacent to the fire protection service entrance or as directed or required by NFPA.	
2.0	WET SPRINKLER SYSTEMS	-
A.	Systems shall be in accordance with NFPA 13 complete in every respect to provide complete coverage of all areas in the entire building or throughout the area of work as indicated. Sprinkler system shall be hydraulically designed per appropriate hazard class.	
B.	Sprinkler system shall be a delegated design, contractor shall be responsible for layout and design of the fire sprinkler system. Submit all necessary documentation (plans, calculations, cut sheet literature and flow tests) and obtain necessary permits for approval and installation of the system. Provide PE or NICET stamp on submittal drawings.	
C.	As required by application, system shall include but not be limited to pipe and hangers, sprinklers, valves, inspector tests, fire department connection, audible and visible alarms, flow and tamper switches, gages, wiring, etc. Conform to the requirements of Division 16, FM and UL or IRI where required by owner.	
D.	 System shall be an extension of and/or modifications to the existing building system. As close as possible, match function, coverage, style and appearance of existing devices. Provide new sprinkler piping and sprinklers throughout area of work. Reconfigure existing building sprinkler piping and/or sprinklers within the scope of work area in order to provide proper coverage per NFPA and Local Authorities. 	(
E.	Provide fire pump if necessary to meet system demands. Margin of safety shall be 10% or 10 PSIG, whichever is less.	F
F.	Upon final acceptance, the owner shall be responsible for proper maintenance as established by the latest edition of NFPA 25 'Standard for the inspection, Testing and Maintenance of Water Based Fire Protection Systems'.	1_
3.0	PIPING, FITTING AND VALVES:	
A.	Fire protection above ground -	Ν
	1. Pipe –	
	 All sizes – Schedule 40, black steel, malleable iron threaded, flanged or welded fittings; roll or cut groove mechanical joints with wrought or forged steel fittings or roll grooved end couplings. 1-1/2" and larger – Schedule 10, black steel; roll groove mechanical joints with roll grooved end couplings. 	l
	 c. Contractor to match existing building piping material standards. 2. Sprinkler piping shall be independently supported from all other systems, no other system or component 	
	 Sprinkler piping shall be independently supported from all other systems, no other system or component may bear on any sprinkler pipe or support. In accordance with NFPA 25 or where required by local authority, sprinkler piping shall not be subjected to external loads by materials either hung from or resting on sprinkler piping. Valves – 	
	a. Shutoff –	_
	1) 1/2" thru 2" a) Nibco T-104-0 Bronze, UL and FM approved OS&Y Gate, 175 PSIG.	
	 a) Nibco 1-104-0 Biolize, OL and FM approved OS&T Gate, 175 FSIG. a) Nibco F607-OTS Cast Iron, UL and FM approved OS&Y Gate, 175 PSIG. 	
	b. Sectional Zone Valves –	
	1) 1/2" thru 2" a) Nibco T-104-0 Bronze, UL and FM approved OS&Y Gate, 175 PSIG. Provide with	(
	 At contractor option, sprinklers may be supplied by UL 2443 listed 1" minimum 304 stainless steel (braided or unbraided corrugated) 175 PSIG rated flexible hoses with all associated UL listed fittings, threaded ends, brackets and other attachments, 6' maximum length. Victaulic Vic-Flex or acceptable equivalent. 	F
4.0	SPRINKLERS	
A.	Provide quick response sprinklers including replacement sprinklers, standard response, extended coverage	E
_	or dry sprinklers as required by application. Replace existing non-compliant sprinklers as required by application.	
В.	Sprinklers shall be of the following styles, subject to application.	
	 Recessed chrome plated brass with 2-piece adjustable escutcheon in gypsum and lay-in tile ceilings. Pendant chrome plated brass with escutcheon in gypsum and lay-in tile ceilings. Upright brass in unfinished areas. Provide wire cage in areas subject to damage. Upright brass in finished areas with exposed structure. Where not otherwise indicated, sprinkler type, style, appearance and coverage to match existing. Any sprinklers removed shall be replaced with new sprinklers 	(
C.	6. Any sprinklers removed shall be replaced with new sprinklers.	
	when in gypsum board ceilings. All location tolerances shall be +/- 1/2".	E
D.	Refer to reflected ceiling plans for coordination with lights, diffusers, exit signs, etc.	

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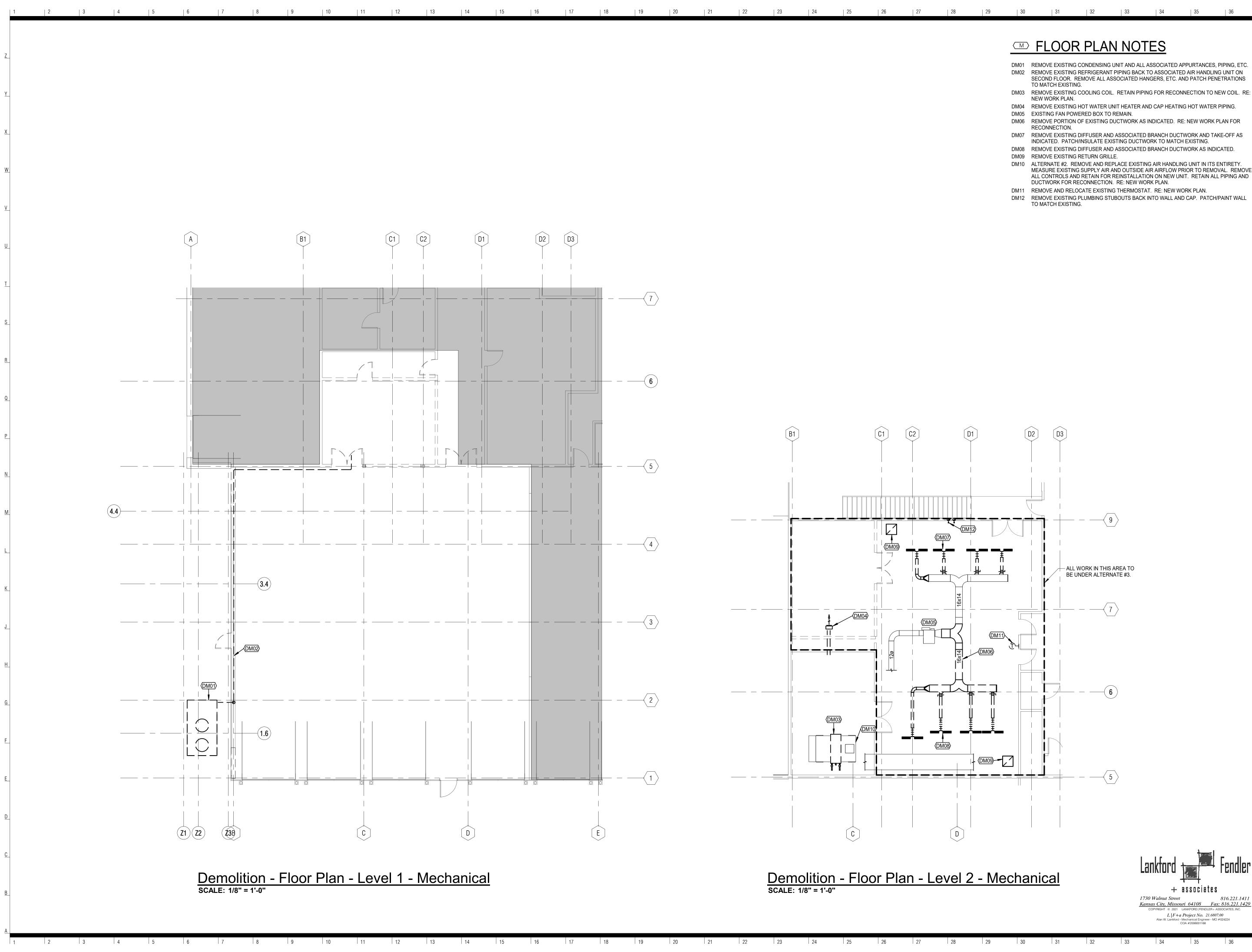
BNIM Architects 2460 East Pershing Road, Suite 100 p.816.783.1500 f.816.783.1501 MO State Certificate of Authority #0 KH Engineering Group 13426 West 99th Street, Johnson Co 913-825-9381	Structural Enginee
Certificate of Authority Taliaferro & Browne 1020 East 8th Street, Jackson Count	Civil Enginee y, Kansas City, MO 64106
816-283-2456 Lankford Fendler + Associates 1730 Walnut Street, Jackson County	MEPF Enginee , Kansas City, MO 64108
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Alan W. Lankford - Mechanical Engineer - MO #024224 COA #2006001168

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- DM01 REMOVE EXISTING CONDENSING UNIT AND ALL ASSOCIATED APPURTANCES, PIPING, ETC. 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:

- 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



- 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

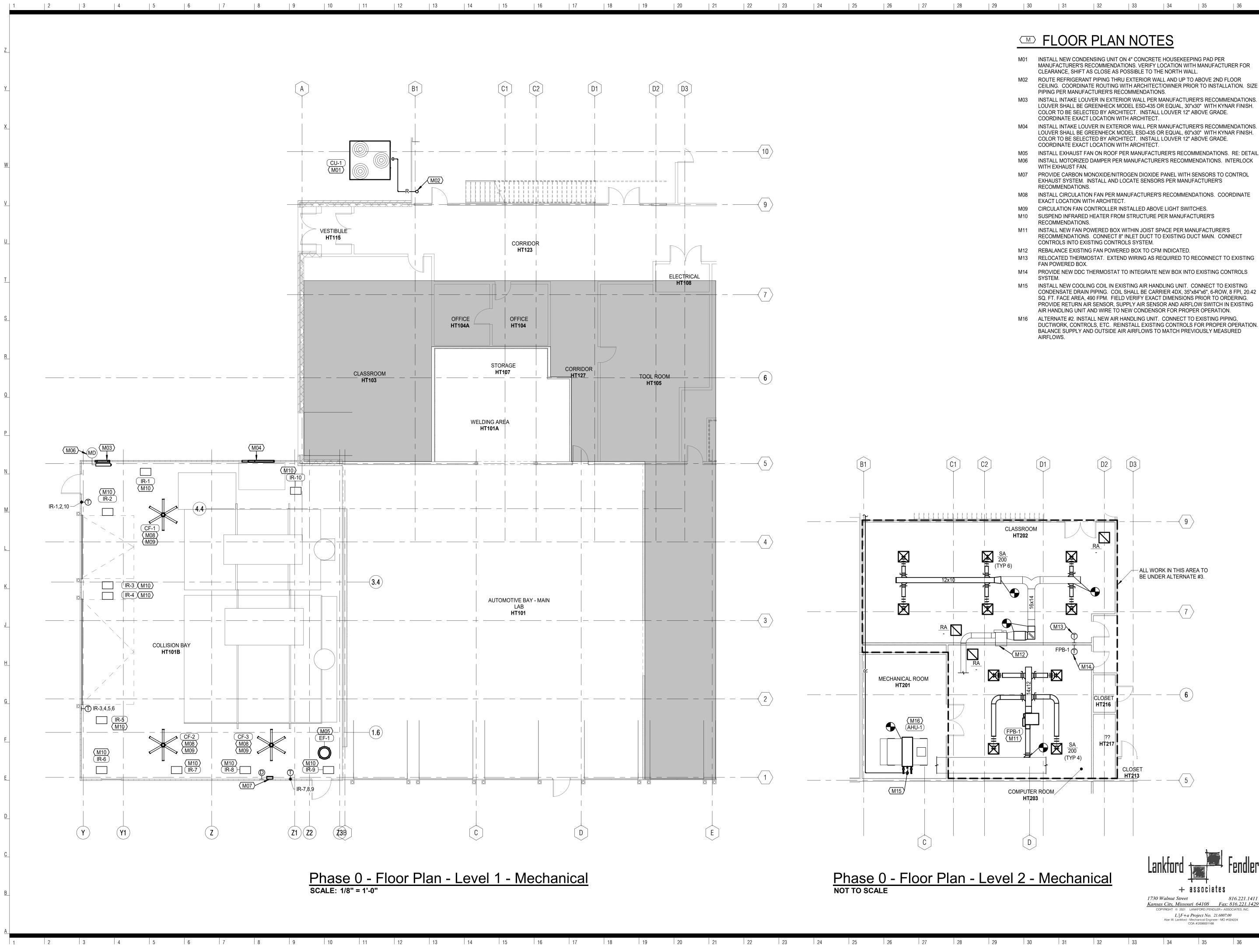
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500 SW Longview Road Lee's Summit, MO 64081 Project No: 20008.00

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	Sept. 23, 2	
Profession Name		

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- 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

- 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

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

Architect

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

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 & 2 - Mechanical M100Copyright © 2021 BNIM Architects 9/23/2021 7:24:21 AM

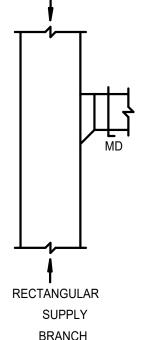
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		BRANCH DUC	۱.			PRIOR TO CEI	ling			HIGH V	H LOW & ELOCITY)	
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				EXT.	TOTAL			C00	LING COIL						EI	ECTRIC	AL	
AIRFLOW	FAN	FAN	FAN	S.P.	S.P.	E.D.B.	E.W.B.	L.D.B.	L.W.B.	TOTAL	SENS.	E.D.B.	L.D.B.	TOTAL				NOTES
CFM	TYPE	SIZE	RPM	(IN W.G.)	(IN W.G.)	(°F)	(°F)	(°F)	(°F)	MBH	MBH	(°F)	(°F)	MBH	VOLT	ø	HZ	
9000	AIRFOIL	17W	2534.0	2	3.95	80	67.0	53.1	52.3	400.8	264.3	60	91.6	316	480	3	60	1

FAN POWERED BOX SCHEDULE MIN. MAX. MAX. AIR VALVE AIR VALVE AIR VALVE 150°F EWT /150°F LWT ELECTRICAL FAN INLET MAX. MANUFACTURER MODEL SIZE MARK SIZE COOLING COOLING HEATING NC FLOW WPD CAPACITY (MBH) VOLT Ø NO. CFM CFM CFM @1"WC (GPM) (FT) 120 1 60 FPB-1 PRICE FDV-5000 525 3.0 0.5 19.8 20 8" 800 75 40

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.



									E		AL		
MARK NO.	MANUFACTURER	MODEL	DIAMETER IN.	AIRFLOW (CFM)	# OF AIRFOILS	RPM	SOUND LEVEL (DBA)	COLOR	VOLT	ø	HZ	WATTS	
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 FIXE	I D WALL MOUN	T CONTROLLEF	R, UNIVERSAL I	I I MOUNT AND 4	12" DOWNR	ROD.		<u> </u>		1	1	<u>I</u>

BRANCH "TAKE-OFFS"

(20% OR LESS AIRFLOW TO **BRANCH LOW &** HIGH VELOCITY)



FAN	SCHEDU	JLE											
									E		AL		
MARK NO.	MANUFACTURER	MODEL	TYPE	AIRFLOW (CFM)	S.P. (IN W.G.)	FAN TYPE	RPM	DRIVE	VOLT	ø	НΖ	HP	NOTES
EF-1	GREENHECK	G-130	DOWNBLAST	1500	0.125	FC	1140	DIRECT	120	1	60	1/6	1
NOTES:	1. PROVIDE WITH SLOP	ED ROOF CUI	RB, DISCONNEC	T SWITCH, SP	EED CONTRO	DLLER, HING	ED CURB CA	AP, HINGED E	BASE, CUF	RB SEAL,			

CURB EXTENSION, BIRD SCREEN, AND DAMPER.

CONDENSING UNIT SCHEDULE

					SAT.			El	ECTRICA	AL.	
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	NITCH, DIGIT	TAL COMPRE	SSOR, LOW SOUN	ND FAN AND	COMPRESS	OR, ALUM	INUM FIN	COPPER	
	TUBE CONDENSER	COILS, BACI	NET INTERFA	ACE, COMPR	ESSOR CRANKCA	SE HEATER,	LOW AMBIE	NT KIT, C	OMPRESS	SOR	
TIME-OFF CONTROL, AND HAIL GUARDS.											

MARK	MANUFACTURER	MODEL	FACE SIZE (IN.)	NECK SIZE (IN.)	FRAME TYPE*	FINISH	NOTE
SA	PRICE	SPD	24x24	8"	LAY-IN	WHITE	
RA	PRICE	PDDR	24x24	-	LAY-IN	WHITE	
NOTES:							1

*CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING DIFFUSERS.

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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.

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HZ

- 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.
- .. 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
EXHAUST DUCT
SUPPLY DIFFUSER
RETURN GRILLE
MANUAL VOLUME DAMPER
THERMOSTAT
EQUIPMENT TYPE AND DESIGNATION
TYPE MARK: (S_) SUPPLY, (R_) RETURN, (E_) EXHAUST DIFFUSER OR GRILLE TYPE MARK AND CFM CFM
CONNECT TO EXISTING



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bnim

- 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

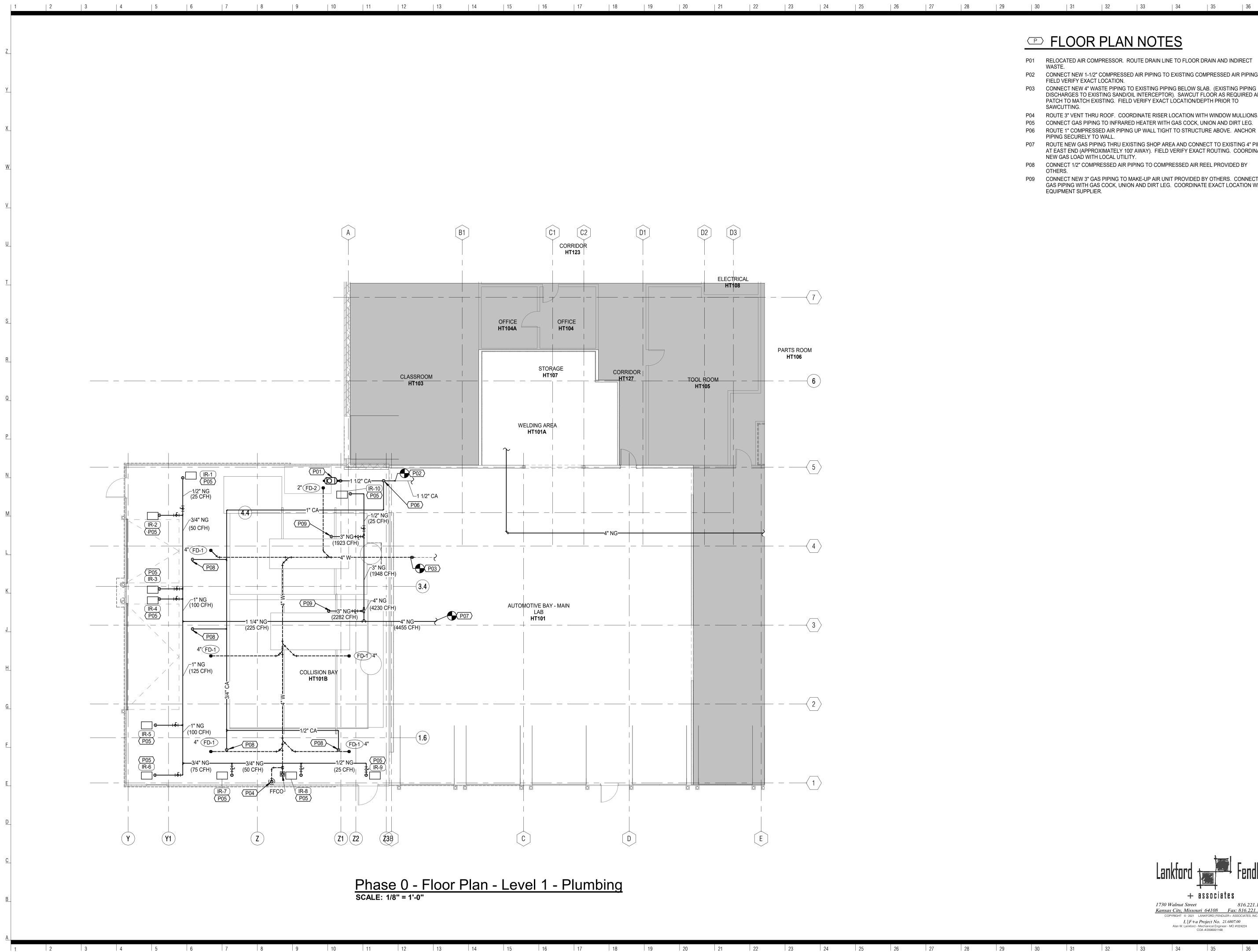
MCC Longview HT **Addition/Renovation**

500 SW Longview Road Lee's Summit, MO 64081

Project No: 20008.00

PERMIT/BID DOCUMENTS

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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



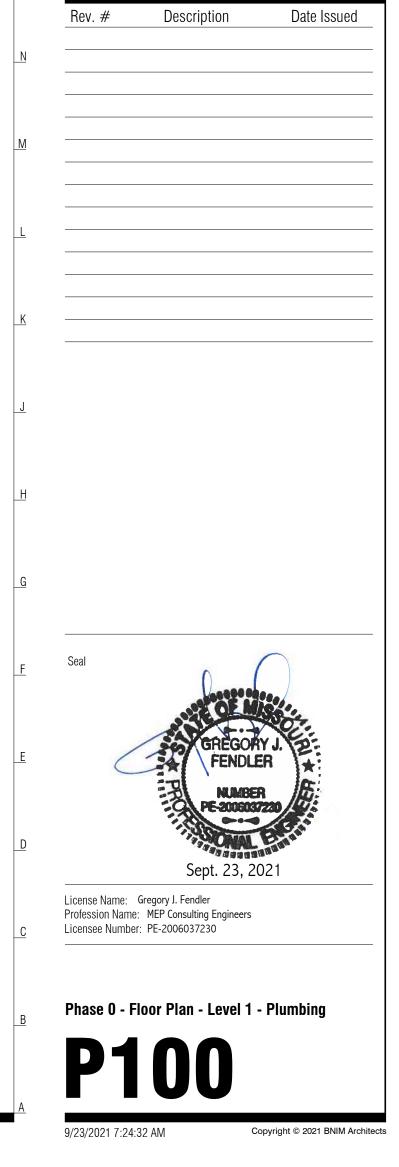
- BNIM Architects Architect 2460 East Pershing Road, Suite 100, Jackson County, Kansas City MO 64108 p.816.783.1500 f.816.783.1501 MO State Certificate of Authority #00235006 Structural Engineer KH Engineering Group 13426 West 99th Street, Johnson County, Lenexa, KS 66215 913-825-9381 Certificate of 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
- **PERMIT/BID DOCUMENTS**

Project No: 20008.00

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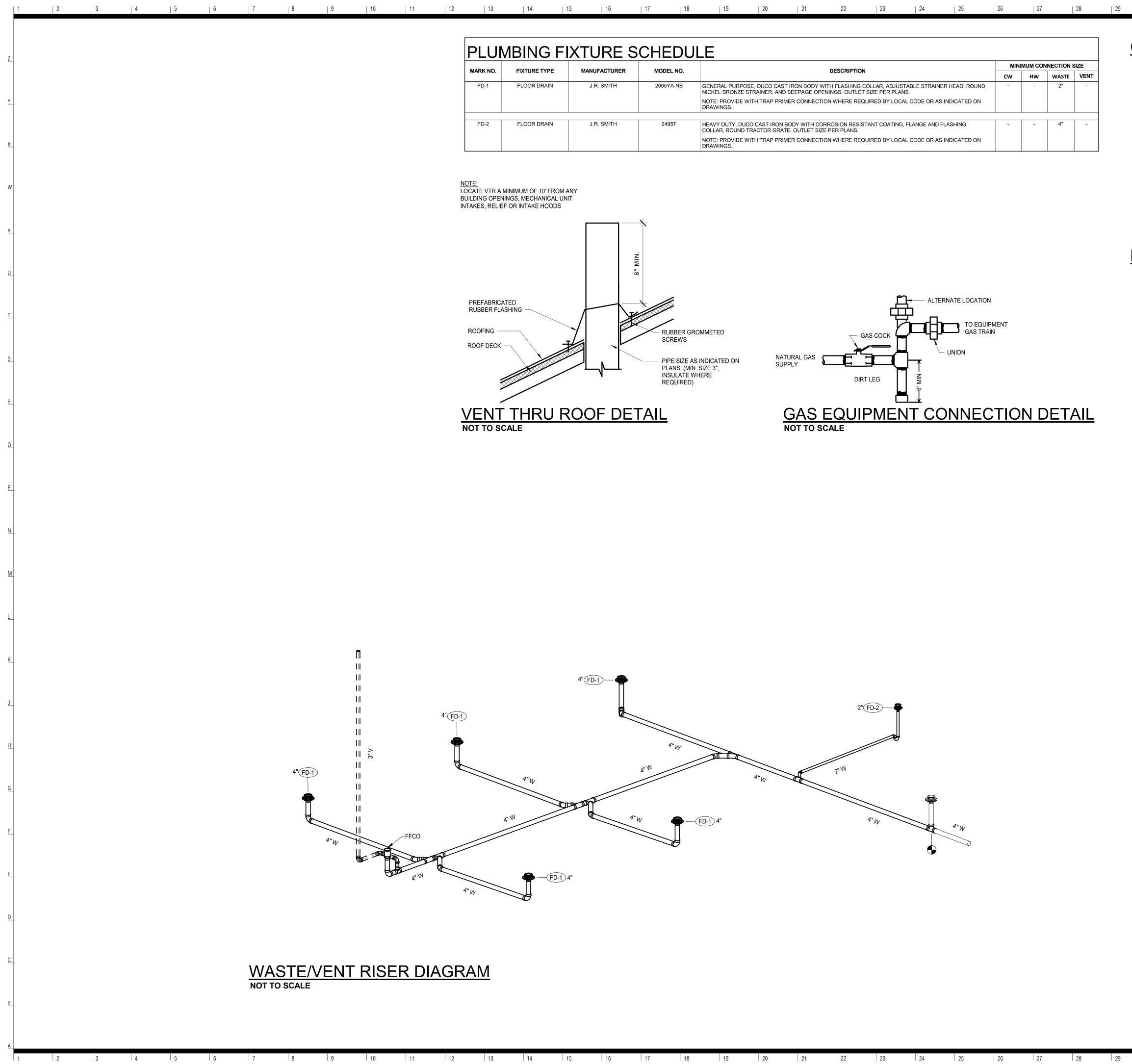


+ associates
 1730 Walnut Street
 816.221.1411

 Kansas City, Missouri 64108
 Fax: 816.221.1429

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NG FIXTURE SCHEDULE							
TURE TYPE	MANUFACTURER	MODEL NO.	DESCRIPTION	CW	HW		VENT
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.				

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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 📈	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

n		

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Civil Engineer

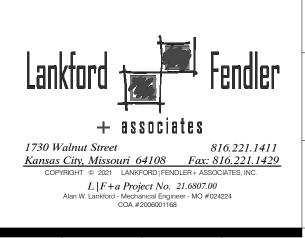
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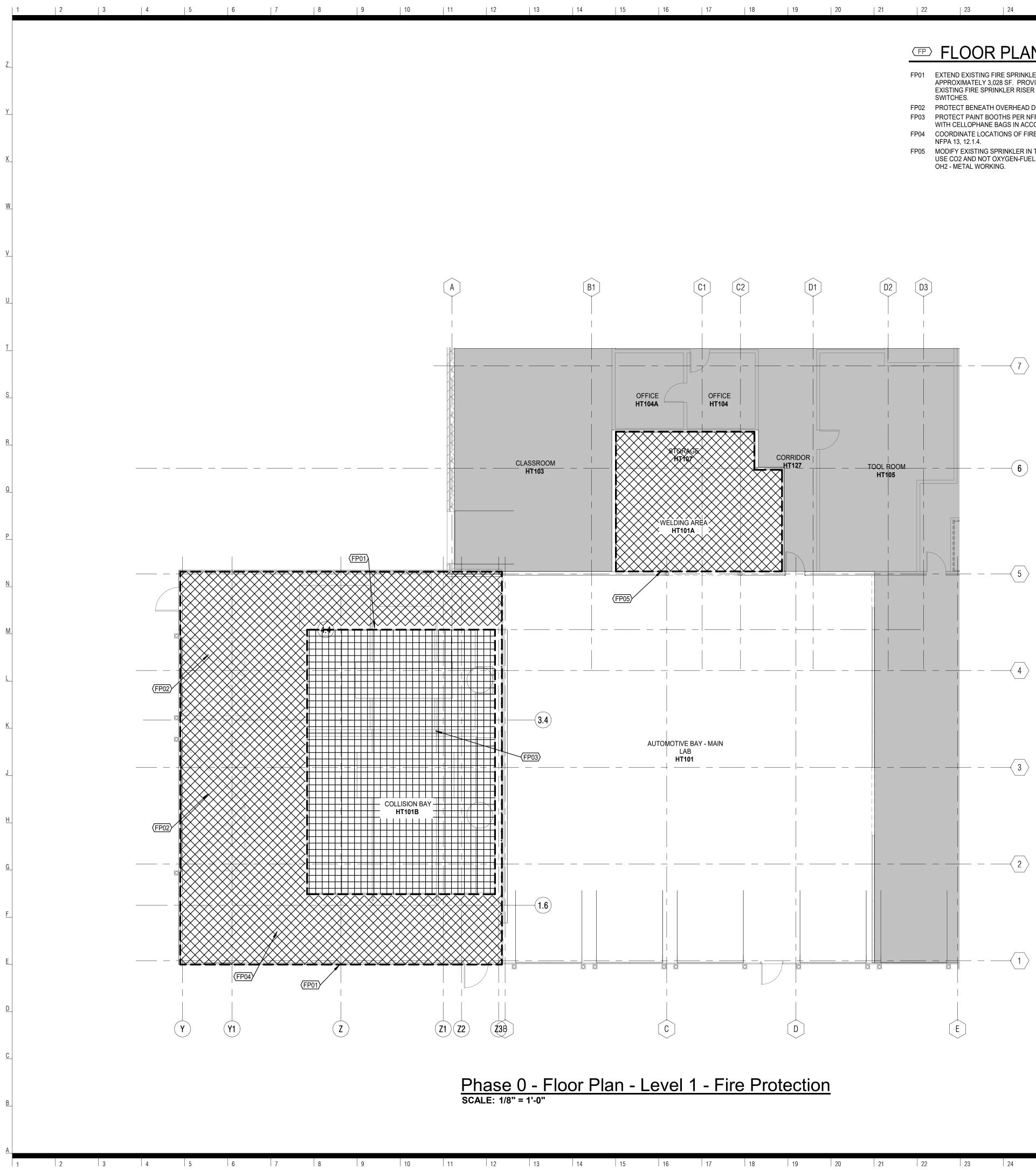
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FP FLOOR PLAN NOTES

- 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.



pnim

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

MCC Longview HT **Addition/Renovation**

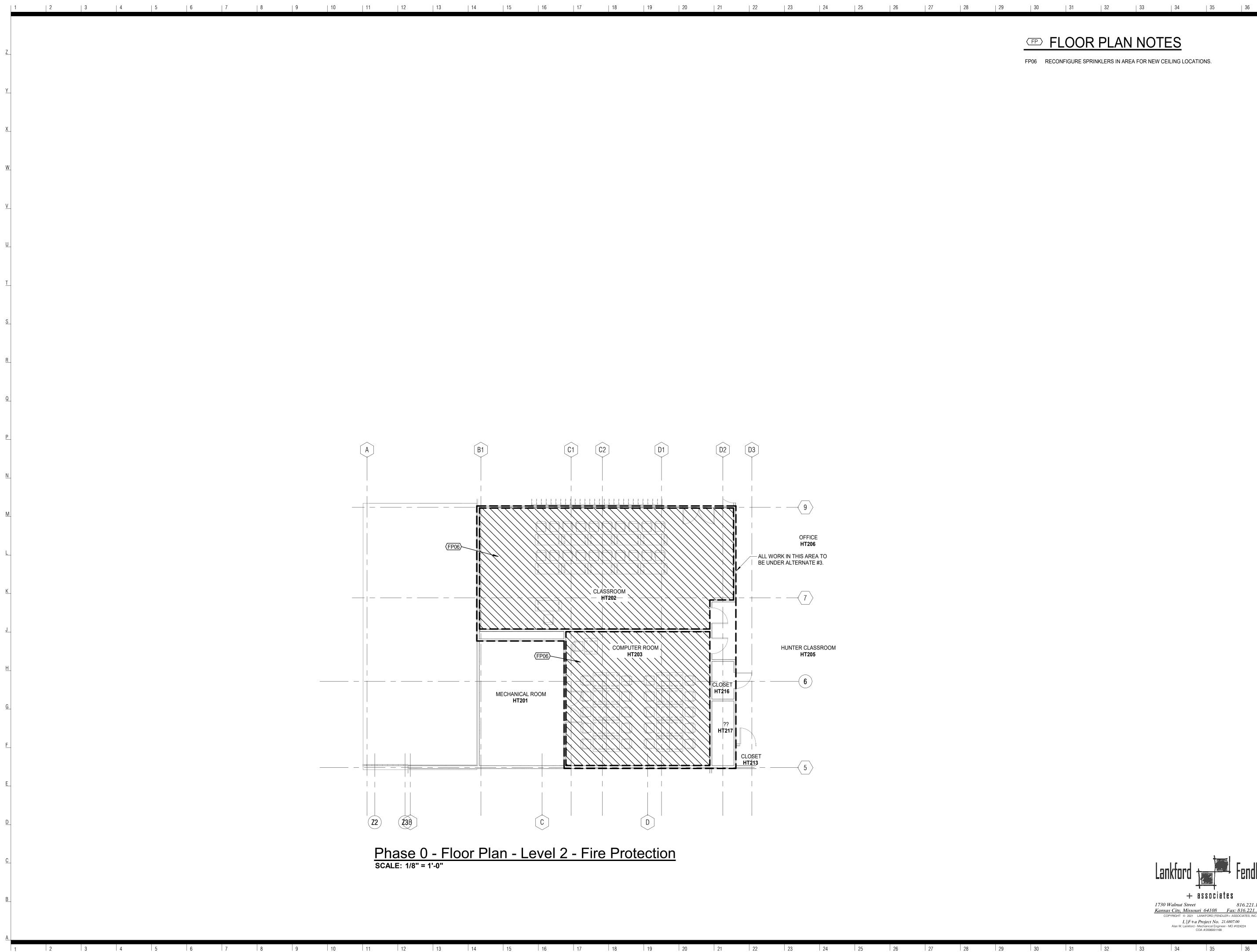
500 SW Longview Road Lee's Summit, MO 64081

Project No: 20008.00

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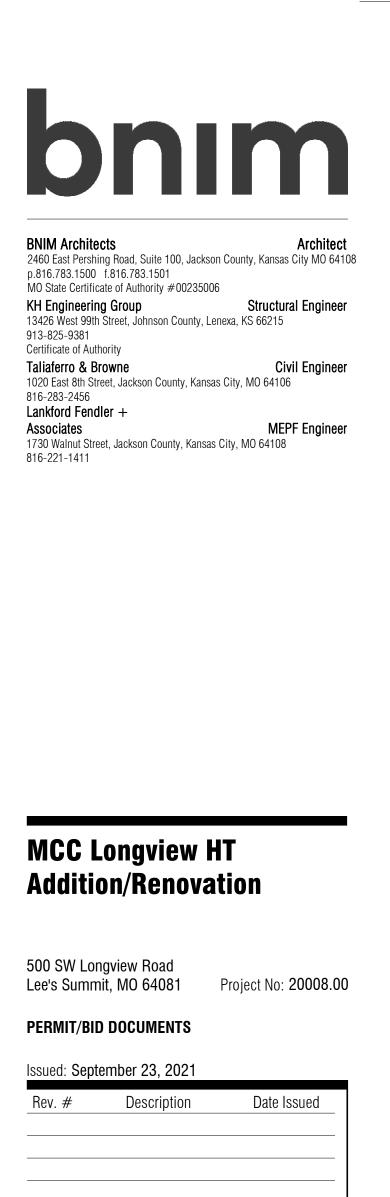
Issued: September 23, 2021 Date Issued Description Rev. # Sept. 23, 202 License Name: Gregory J. Fendler Profession Name: MEP Consulting Engineers Licensee Number: PE-2006037230 Phase 0 - Floor Plan - Level 1 - Fire Protection **FP100** Copyright © 2021 BNIM Architects 9/23/2021 7:24:17 AM

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FP FLOOR PLAN NOTES

FP06 RECONFIGURE SPRINKLERS IN AREA FOR NEW CEILING LOCATIONS.



Lankford	
1730 Walnut Street 816.221.1411	
Kansas City, Missouri 64108 Fax: 816.221.1429	
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L F+a Project No. 21.6807.00 Alan W. Lankford - Mechanical Engineer - MO #024224 COA #2006001168	

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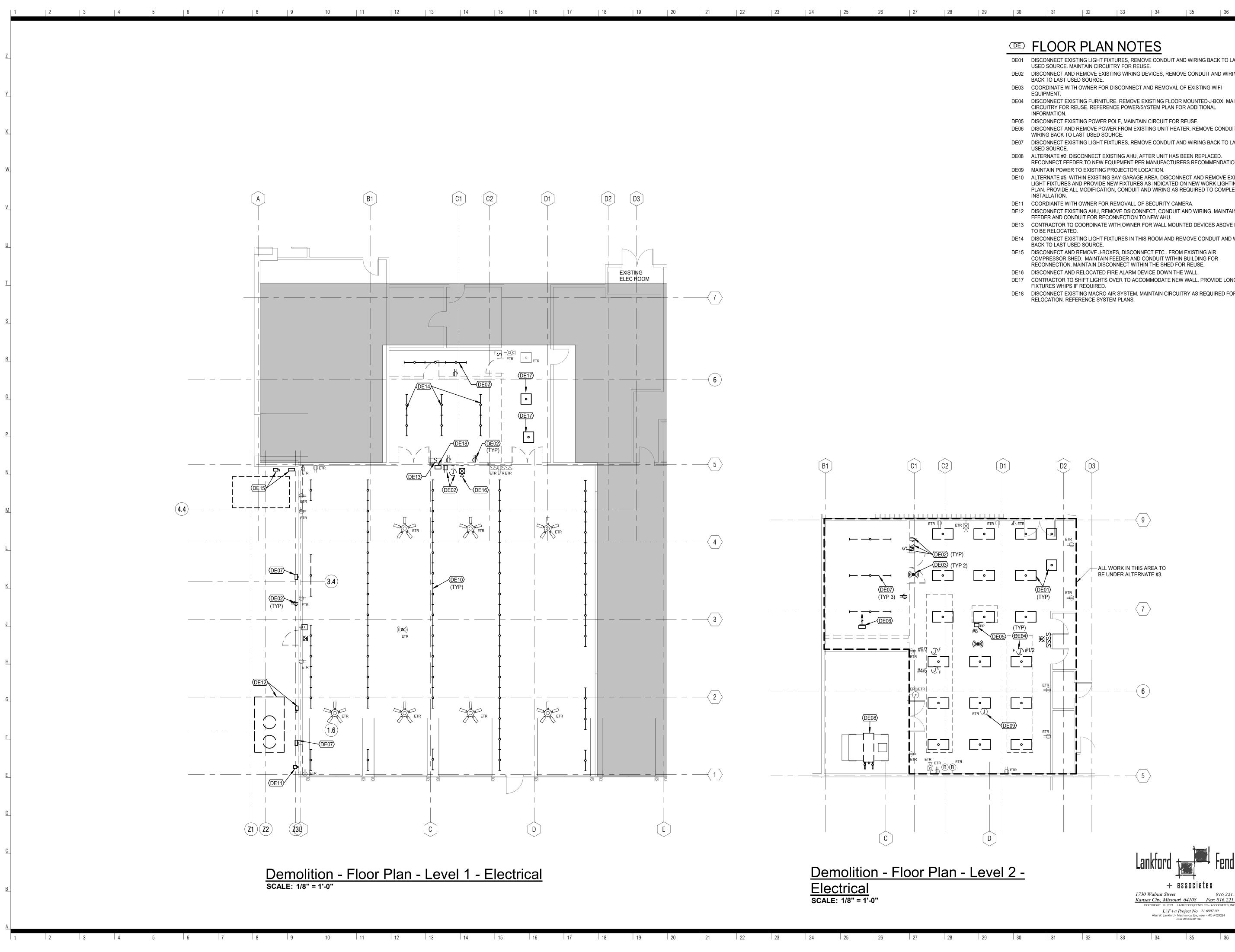
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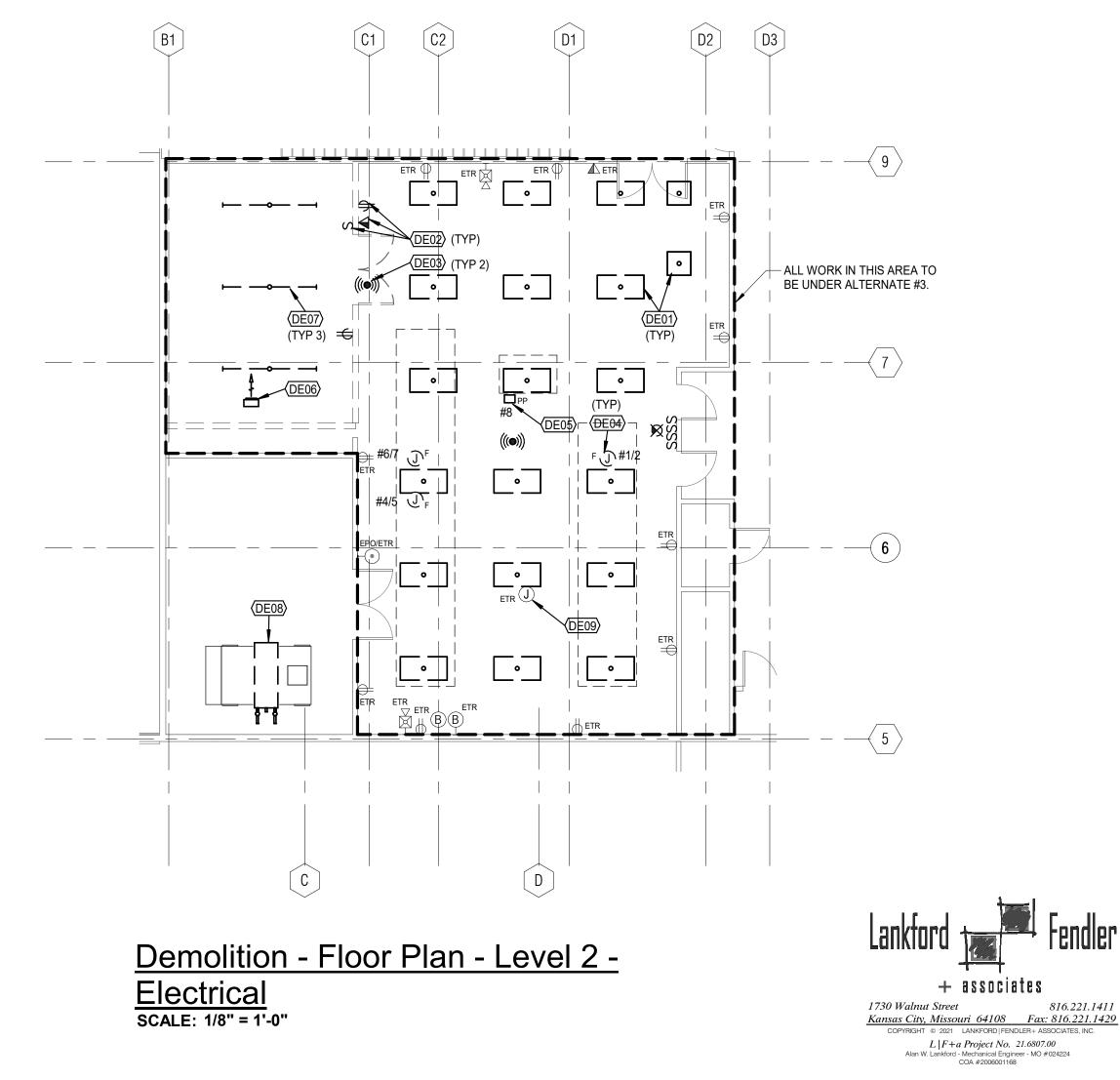
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Sept. 23, 202 License Name: Gregory J. Fendler Profession Name: MEP Consulting Engineers Licensee Number: PE-2006037230 Phase 0 - Floor Plan - Level 2 - Fire Protection **FP101**

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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.

bnim

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- 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

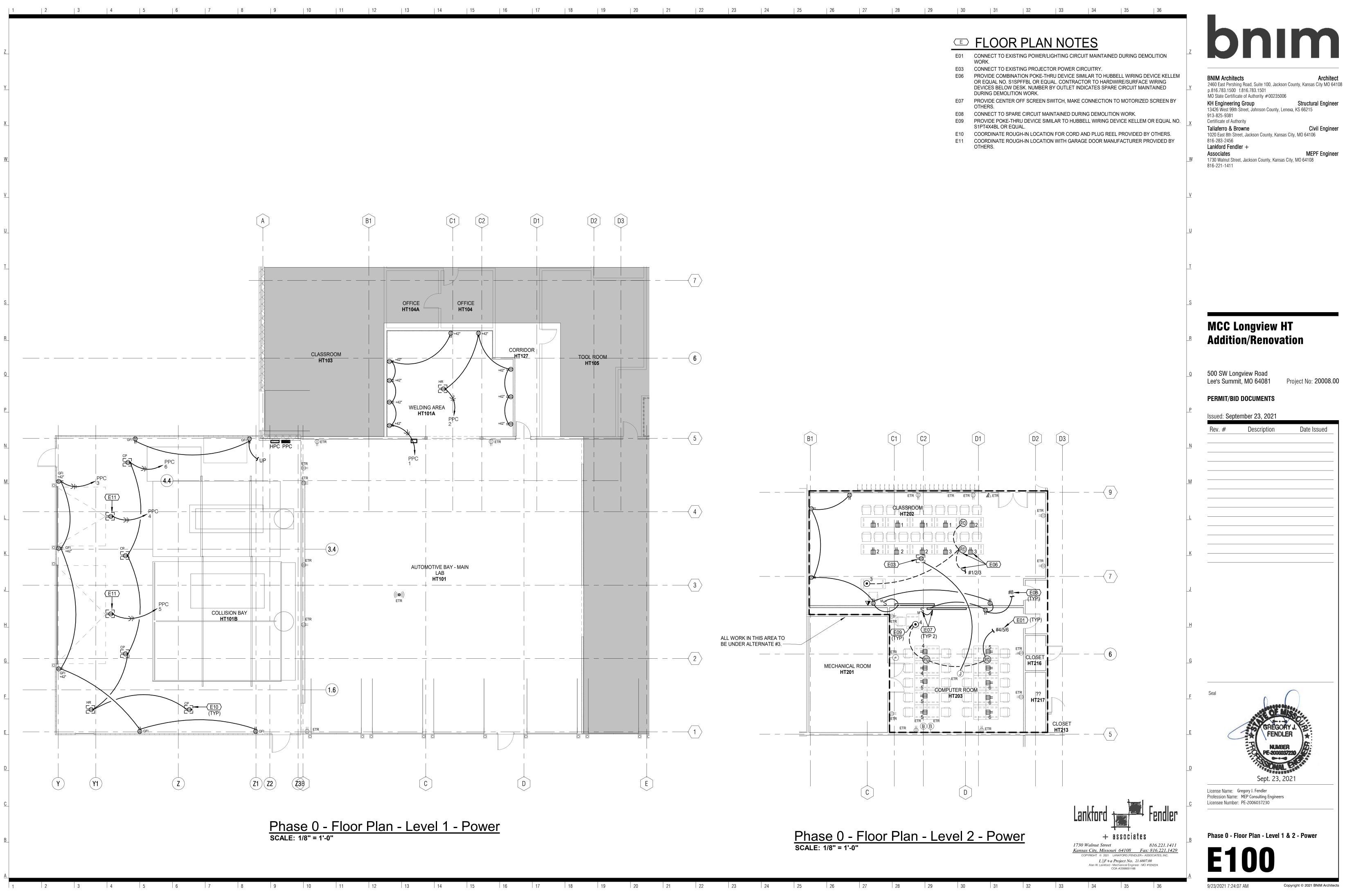
MCC Longview HT **Addition/Renovation**

500 SW Longview Road Lee's Summit, MO 64081

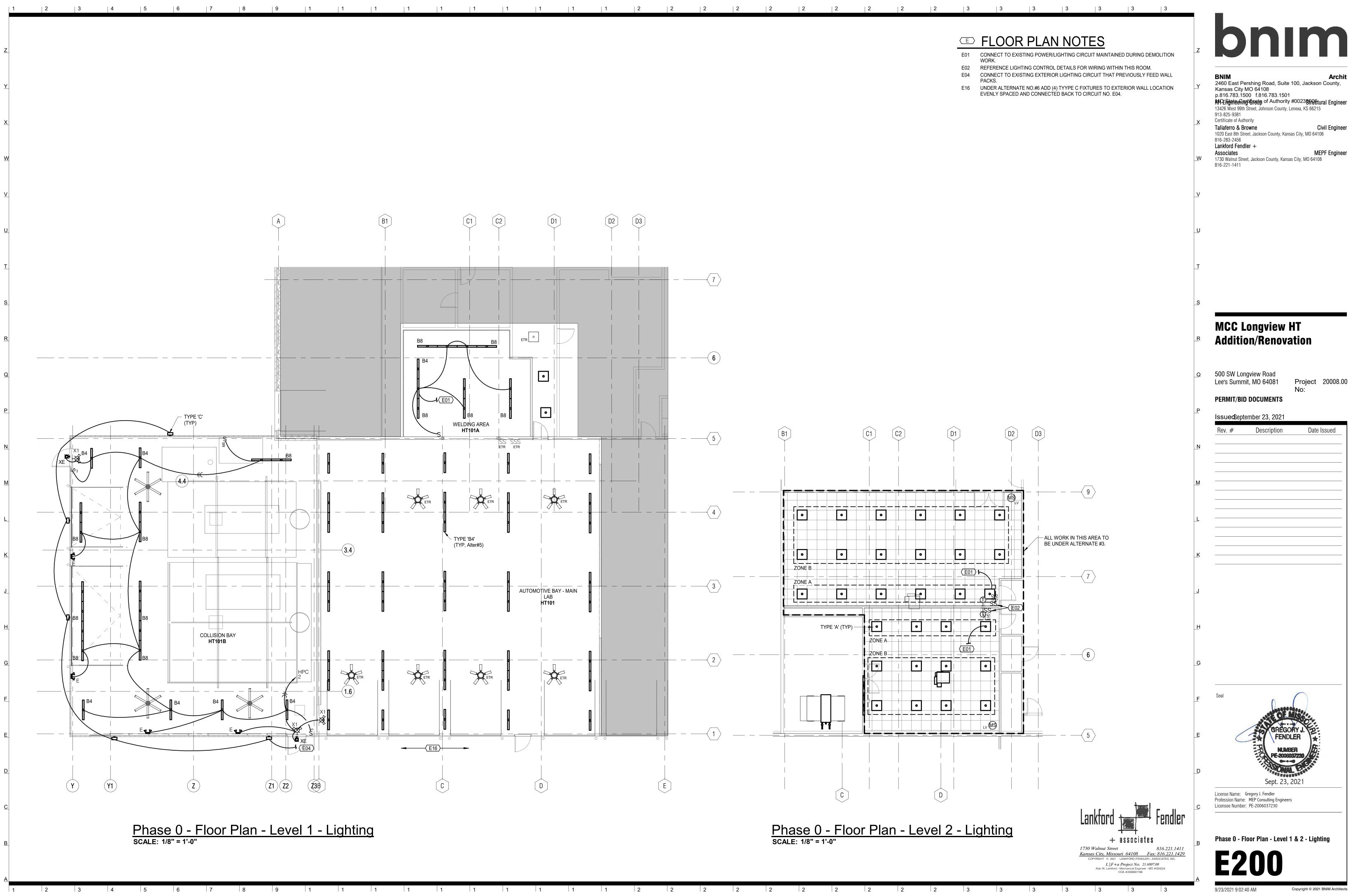
Project No: 20008.00

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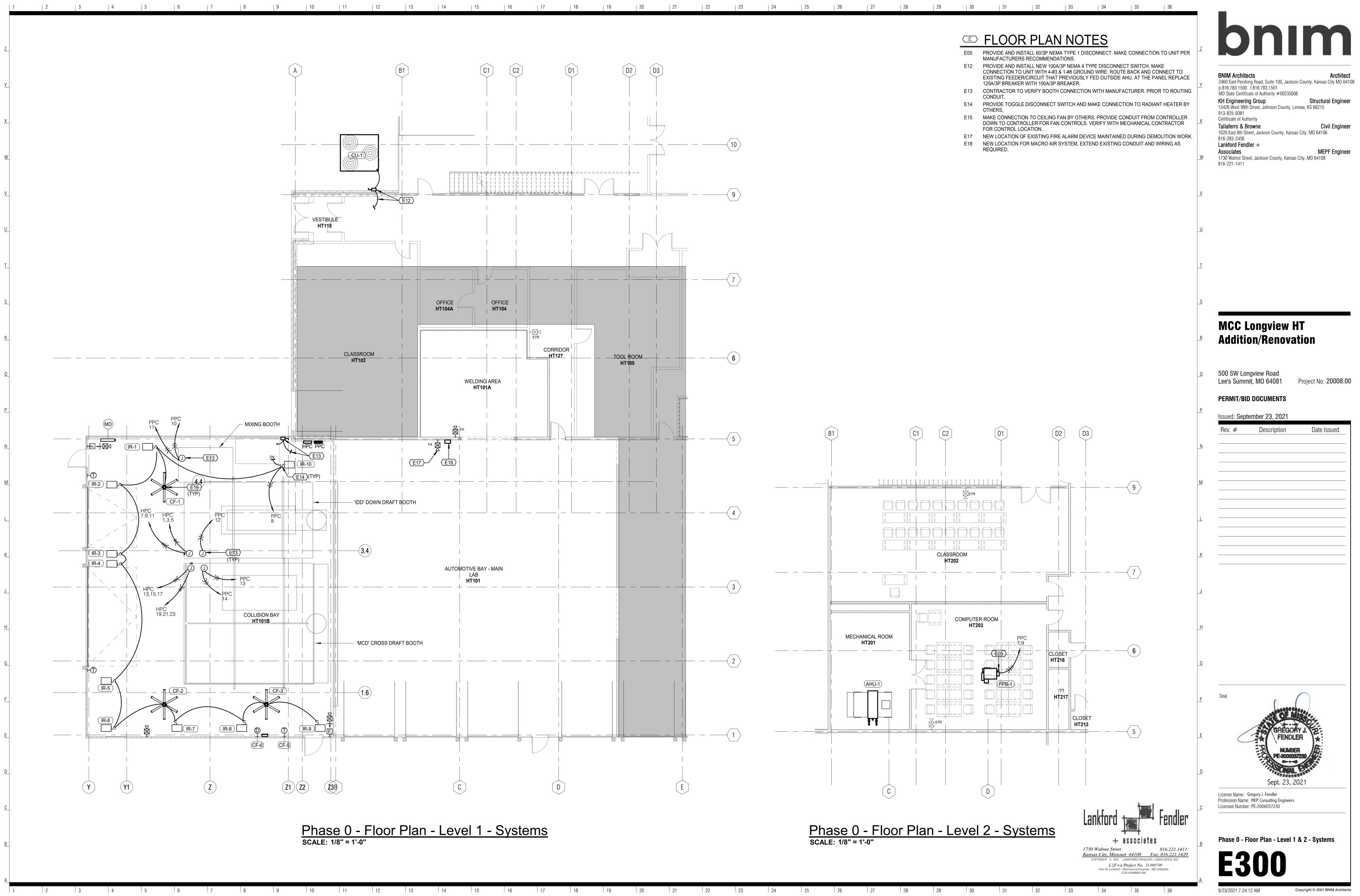
Issued: September 23, 2021 Date Issued Description Rev. # Sept. 23, 202 License Name: Gregory J. Fendler Profession Name: MEP Consulting Engineers Licensee Number: PE-2006037230 Demolition - Floor Plan - Level 1 & 2 - Electrical **DE100** 9/23/2021 7:24:03 AM Copyright © 2021 BNIM Architects

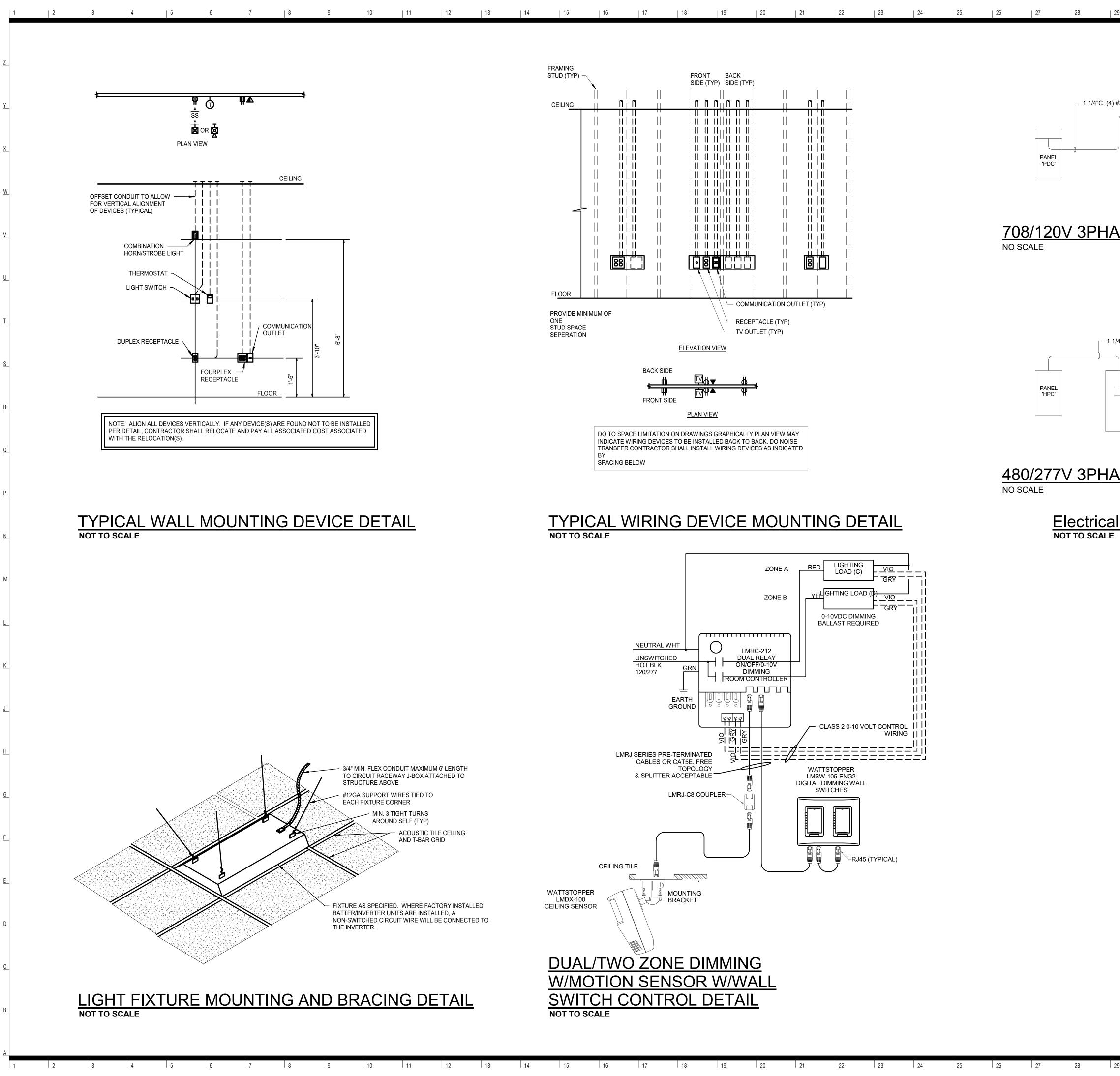


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+ associates 1730 Walnut Street 1730 Walnut					I			┎ _{┲╍╶} ╢╴		License Name: Gregory J. Fendler Profession Name: MEP Consulting Engineers
COPYRIGHT © 2021 LANKFORD FENDLER+ ASSOCIATES, INC. L F+a Project No. 21.6807.00 Alan W. Lankford - Mechanical Engineer - MO #024224 COA #2006001168					1730	- → 8 Walnut Street	Issociates	816.221.1411		
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316-283-2456 _ankford Fend Associates 1730 Walnut Stre	ler + et, Jackson County, Kans	MEPF Engineer
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	Sept. 23, Gregory J. Fendler	2021
Profession Name	Sept. 23,	2021

		E	Branch Panel: HPC											
			Location: COLLISION Supply From: Mounting: Surface Enclosure: Type 1	BAY HT101E				Volts: Phases: Wires:		Wye				A.I.C. Ratin Mains Ty Mains Ratin
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BRANCH CIRCUIT COPPER CONDUCTOR	
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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"

Location: COLLISION BAY HT10 Supply From: Mounting: Surface Enclosure: Type 1 Notes: Notes:	B Volts: 277/480 Wye Phases: 3 Wires: 4	A.I.C. Rating:					
Enclosure: Type 1 Notes:	Wires: 4	Mains Type:	Location: COLLISION B Supply From:	Phases: 3	A.I.C. Rating: Mains Type: MLO		BNIM Architects
		Mains Rating: 100 A	Mounting: Surface Enclosure: Type 1	Wires: 4	Mains Rating: 100 A		Y 2460 East Pershing Road, Suite 100, Jackson p.816.783.1500 f.816.783.1501 MO State Certificate of Authority #00235006
Notes CKT Circuit Description Trin			Notes:				KH Engineering Group 13426 West 99th Street, Johnson County, Lene 913-825-9381
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	A B C A B C Poles 2.1 0.578 1		Notes CKT Circuit Description 1 REC; WELDING AREA	Trip Poles A B C A B C 20 A 1 0.9 <t< td=""><td>Poles Trip Circuit Description 1 20 A REC; WELDING AREA</td><td>CKT Notes</td><td>816-283-2456 Lankford Fendler +</td></t<>	Poles Trip Circuit Description 1 20 A REC; WELDING AREA	CKT Notes	816-283-2456 Lankford Fendler +
3 IDD DOWN DRAFT BOOTH 20 A		20 A SPARE 2 20 A SPARE 4 20 A SPARE 6	3 REC; COLLISION BAY GENERAL 5 REC; COLLISION BAY GARAGE DOOR	20 A 1 0.5 0.5 0.5 20 A 1 0.9 0.5 0.5 20 A 1 0.5 0.5 0.5	1 20 A REC; COLLISION BAY GARAGE DO		Associates W 1730 Walnut Street, Jackson County, Kansas C 816-221-1411
7 9 IDD DOWN DRAFT BOOTH 30 A		PROVISION 10	7 9 FPB-1	20 A 2 2.5 0.78 0.78 2.5 13.8	1 20 A IR-1 - IR-10 1 20 A MIXING BOOTH	8 10	
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	otal Load: 21.478 kVA 20.900 kVA 20.900 kVA tal Amps: 77.5 A 75.5 A 75.5 A			Total Load: 7.480 kVA 17.700 kVA 3.120 kVA Total Amps: 67.9 A 153.1 A 26.0 A			
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Lighting Other	572 VA 125.00% 716 VA 6 VA 100.00% 6 VA	Total Conn. Load: 63278 VA Total Conn. Current 76 A Total Demand Load 79097 VA	Power Receptacle	5780 VA 100.00% 5780 4600 VA 100.00% 4600			Addition/Renovat
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90 2 AWG 8 AWG 100 1 AWG 8 AWG	1" 1-1/4" 1-1/4" 1-1/4" 1-1/2" 1-1/2"	1-1/4" 1-1/2"				-	-
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* = ALL CONDUCTORS SIZED ON THE POWER RISER DIAGRAM (H CIRCUITS AND FEEDERS TO BE PROVIDED WITH A NEUTRAL WIRE. R IN BRANCH CIRCUIT CONDUCTOR TABLE ARE BASED ON 3 CURRENT (ALL BE DERATED IN ACCORDANCE WITH THE NEC IF 4 OR MORE CONDU						
PLACED IN A RACEWAY OR CABLE.							PE-20060372
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							License Name: Gregory J. Fendler Profession Name: MEP Consulting Engineers
							C Profession Name: MEP Consulting Engineers Licensee Number: PE-2006037230
						+ associates 1730 Walnut Street 816.221.1411	B ELECTRICAL SCHEDULES

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otes:	Branch Panel: PPC Location: COLLISION BAY Supply From: Mounting: Surface Enclosure: Type 1	Y HT101B	Volts: 120/208 Phases: 3 Wires: 4	Vye	A.I.C. Rating: Mains Type: MLO Mains Rating: 100 A		Y P P P P P P P P P P P P P
otes CK 1 3 5	REC; WELDING AREA REC; COLLISION BAY GENERAL REC; COLLISION BAY GARAGE DOOR	Trip Poles 20 A 1 0.9 20 A 1	B C A 0.9 0.9 0.9 0.5	1 2 0.5 1 2 0.9 1 2	TripCircuit Description20 AREC; WELDING AREA20 AREC; COLLISION BAY GARAGE DOOR20 AREC; COLLISION BAY CORD AND PLUG20 AREC; COLLISION BAY CORD AND PLUG	CKTNotes246	X Certificate of Authority Taliaferro & Browne 1020 East 8th Street, Jackson County, 816-283-2456 Lankford Fendler + Associates W 1730 Walnut Street, Jackson County, H 816-221-1411
7 9 1 1 1 1 1	MIXING BOOTH MIXING BOOTH MCD CROSS DRAFT BOOTH	20 A 2 2.5 20 A 1 - 20 A 1 1.2 20 A 1 -	0.78 2.5 0.4 1.2 0	13.8 1 2 1.32 1 2 1 1 2	20 AIR-1 - IR-1020 AMIXING BOOTH20 AIDD DOWN DRAFT BOOTH20 AMCD CROSS DRAFT BOOTH20 ASPARE	8 10 12 14 16	V
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r otacle		5780 VA 4600 VA	100.00% 100.00%	5780 VA 4600 VA	Total Conn. Load:28300 VATotal Conn. Current79 ATotal Demand Load32780 VAPower Factor %:95Total Demand Current:96 A		
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						ankford Fe	D Sept. License Name: Gregory J. Fendler Profession Name: MEP Consulting En Licensee Number: PE-2006037230

LIGHT FIXTURE SCTYPEMANUFACTURER		WATTS VOLTS	DIMMING	_ DESCRIPTION	N
A METALUX ENCOUNTER 22EN LED NO.22EN-LD2-34-UNV-L840-CD- OR EQUAL	LED 4000K		YES 0-10V	2X2 RECESSED LE LIGHT FIXTURE, WHITE TRIM, FROSTED LENS.	
B4 METALUX SNLED NO.4T37SL-LN-UNV-L840 OR EQUAL	LED 4000K	28 UNV	<u>NO</u>	4' LONG LED STRIP FIXTURE, ROUND SEMI-FROSTED LENS, PROVIDE WITH AYC OPTION.	
B8 METALUX SNLED NO.8T83SL-LN-UNV-L840 OR EQUAL	LED 4000K	61	NO	SIMILAR TO TYPE B4, EXCEPT 8' LONG.	
C LUMARK - XTOR SERIES NO.XTOR8B-W-BZ-PC2-CBP OR EQUAL	LED 4000K	81	NO	EXTERIOR WALL MOUNTED LED LIGHT FIXTURE, BRONZE FINISH, PHOTO-CELL CONTROLLED.	
E SURE-LITE NO.AP2SQLED OR EQUAL	LED	3	NO	WALL MOUNTED LED EMERGENCY LIGHT, WHITE HOUSING.	
X1 SURE-LITE NO.APC-H-7-R-SQ OR EQUAL.	LED	3.8 UNV	NO	COMBO EXIT AND EMERGENCY LIGHT, WHITE HOUSING, LED HEADS. 3 WATT REMOTE CAPACITY	
XE SURE-LITE NO. SRM25 OR EQUAL	LED		NO	REMOTED EMERGENCY LIGHTS, ALUMINUM HOUSING, POWERED FROM TYPE X1 FIXTURE.	
SPECIFIC NOTES:			-		
THE ENGINEER FOR TIME SPENT VALI RECEIVED BY THE ENGINEER PRIOR 1 S4. PACKAGING OF LIGHT FIXTURES WILL S5. MANUFACTURER'S REPRESENTATIVE S6. LIGHTING CONTROLS PRICING SHALL	N, FINISH, VISUAL APPE VE BEEN USED TO PRO TYPE OF FIXTURE OFFEI LITERNATE FIXTURE. TH DATING EQUALITY AND TO ANY REVIEW COMME . NOT BE CONSIDERED (AGENTS SHALL BE ALL BE COMPLETELY SEPAI	ARANCE AS WELL AS THE VIDE OUR CLIENT WITH TH RED AS AN UNSOLICITED IIS CHARGE IS IN NO WAY COMPATIBILITY WITH THE INCING. DR APPROVED. OWED TO OFFER MINI-LO RATE OF ANY LIGHT FIXTU	"CONTRACTOR NET" F HE LIGHTING AND CON ALTERNATE, A \$500.00 A GUARANTEE OF APF PROJECT REQUIREM F PRICING FOR SPECIF IRE PRICING. ANY LIGI	PRICING. SAMPLES ARE TROLS SYSTEM. FEE WILL BE CHARGED TO THE ROVAL, BUT IS SOLELY TO COMPENSATE ENTS. THIS REIMBURSEMENT MUST BE IED LIGHTING FIXTURES. ITING CONTROLS PRICING THAT	
IS SUBMITTED WITH LIGHT FIXTURE P GENERAL NOTE: G1. ELECTRICAL CONTRACTOR SHALL VE	RIFY CEILING TYPE PRIC	OR TO ORDERING ANY LIG	HT FIXTURES.		
G2. ELECTRICAL CONTRACTOR SHALL CC	ORDINATE DIMMING DR	RIVERS/BALLASTS WITH DI	MMING SWITCHES/SYS	TEMS AND SHALL INCLUDE ALL REQUIRED CONTROL 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
Î 🛉 🛉	INDICATED HOMERUNS TO PANEL, ALL CONDUCTORS ARE NOTED IN PANEL SCHEDULE
	– PHASE CONDUCTORS – NEUTRAL CONDUCTORS
	- GROUND CONDUCTORS
LP1-10	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
100 OR 100	EXIT SIGN, SINGLE FACED, ARROWS AS SHOW ON PLANS, SHADED
	SIDE(S) INDICATES FACE SIDE(S) OF EXIT
PAR OR A	COMBINATION EXIT SIGN/EMERGENCY LIGHTING UNIT, CEILING OR WALL MOUNTED, SHADED SIDE(S) INDICATES FACE SIDE(S) OF EXIT
	CEILING OR WALL MOUNTED EMERGENCY LIGHTING UNIT
• O • OR 坐	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
\diamond	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 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.
-S F⊙	
	PUSH BUTTON, +3'-10" AFF
φ.	DUPLEX RECEPTACLE, +1'-6" AFF OR AS NOTED
⊕	DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP
$\mathbf{\Phi}_{MP}$	GFI DUPLEX RECEPTACLE WITH WEATHERPROOF PLATE, HEIGHT AS NOTED
₿ ^{GFI}	
	DUPLEX RECEPTACLE W/GROUND FAULT PROTECTION,+1'-6" AFF OR AS NOTED
曲	DOUBLE DUPLEX RECEPTACLE, +1'-6" AFF OR AS NOTED
Ð	DUPLEX RECEPTACLE MOUNTED IN CEILING TILE OR CEILING.
\odot	ROUND POKE-THRU WITH TYPE INDICATED, SEE SPECS.
MS	CEILING MOUNTED MOTION DETECTOR TYPE AS INDICATED.
	POWER POLE
н 🛈 ог 🛈	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
Η <mark></mark>	FIRE ALARM STROBE LIGHT, +6'-8" AFF
HX	FIRE ALARM COMBINATION AUDIBLE/VISUAL WALL MOUNTED, +6'-8" AFF
нF	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	ABOVE FINISHED FLOOR
ETR	EXISTING TO REMAIN
FA	FIRE ALARM
PA	PUBLIC ADDRESS
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	Lankford the Fendler
	+ associates
	1730 Walnut Street 816.221.1411 Kanaga City, Miggauri 64108 Fay: 816.221.1420
	$\frac{Kansas City, Missouri 64108}{COPYRIGHT © 2021 LANKFORD FENDLER + ASSOCIATES, INC.}$

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1020 East 8th Street, Jackson County, Kansas City, MO 64106 816-283-2456 Lankford Fendler +	il Engined
Taliaferro & BrowneCivit1020 East 8th Street, Jackson County, Kansas City, MO 64106816-283-2456Lankford Fendler +Associates1730 Walnut Street, Jackson County, Kansas City, MO 64108	-
Lankford Fendler + Associates MEP 1730 Walnut Street, Jackson County, Kansas City, MO 64108	F Engine
MCC Longview HT	
Addition/Renovation	
500 SW Longview RoadLee's Summit, MO 64081Project No: 2	20008.0
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GREGORY J. 2	
NUMBER	
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License Name: Gregory J. Fendler Profession Name: MEP Consulting Engineers Licensee Number: PE-2006037230	
ELECTRICAL SCHEDULES, GEN NOTES &	
SYMBOLS	
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