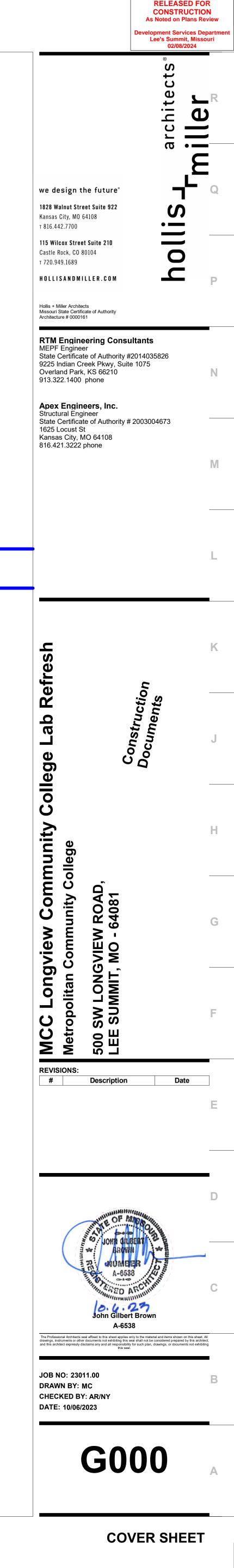
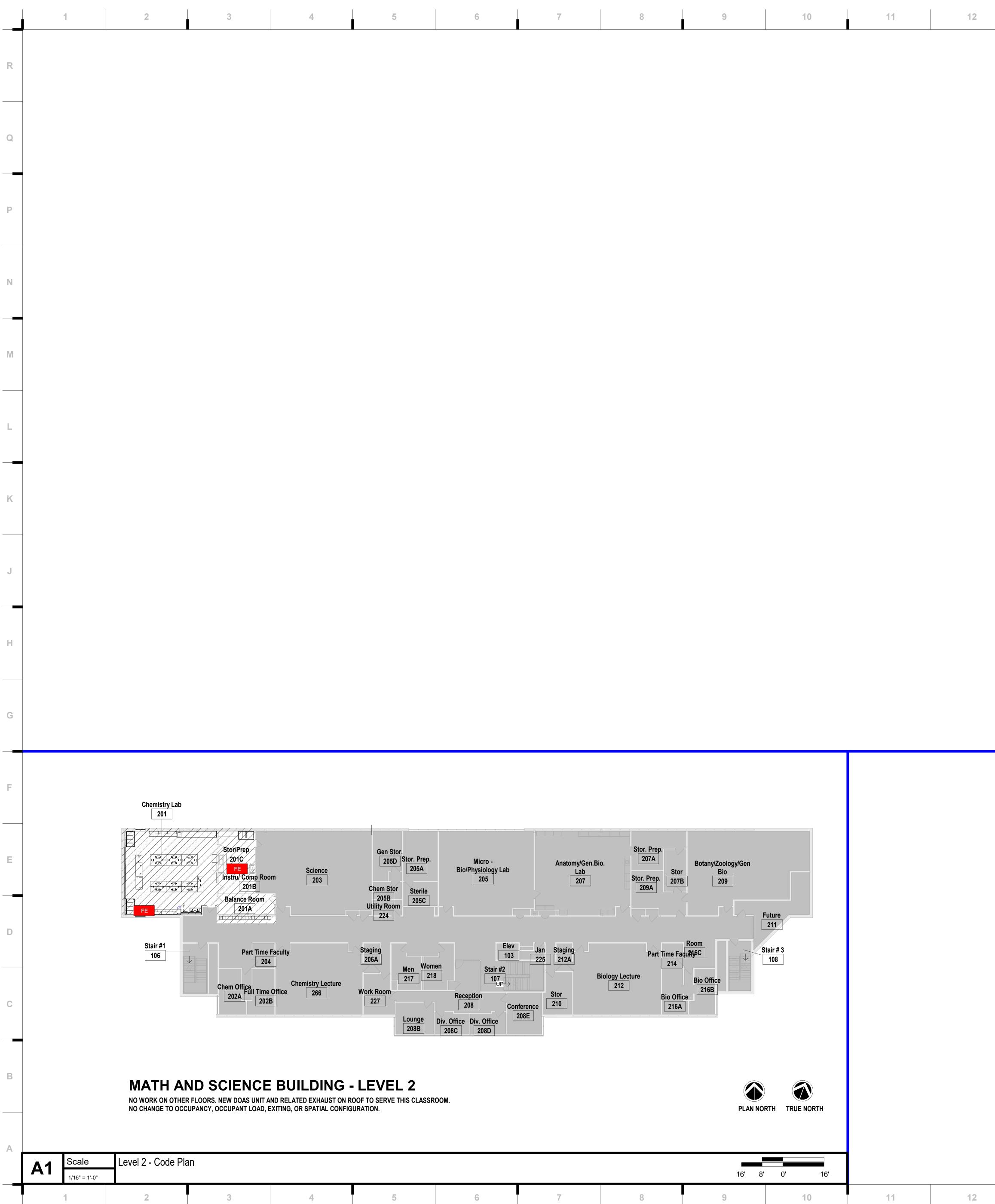
MCC LONGVIEW COMMUNITY COLLEGE METROPOLITAN COMMUNITY COLLEGE 500 SW LONGVIEW ROAD LEE SUMMIT, MO 64081 **Construction Documents INDEX OF DRAWINGS ALTERNATES DESIGN TEAM ARCHITECT:** GENERAL ALTERNATE 1: EXTERIOR WINDOWS Base Bid: Do not provide the exterior windows shown. No COVER SHEET Hollis + Miller Architects exterior work except for new mechanical units and devices 1828 Walnut Street Ste 922 OVERALL CODE PLAN G021 on the roof. Kansas City, MO 64108 Add Alternate: Provide the exterior storefront windows as 2 CONTACT: Marissa Carroll shown in the documents. **DEMOLITION - ARCHITECTURE** PHONE: 816.282.2983 DA101 DEMOLITION PLAN - OVERALL LEVEL 2 ARCHITECTURE GENERAL ARCHITECTURAL INFORMATION STRUCTURAL ENGINEER: A001 A101 FLOOR & REFLECTED CEILING PLANS - LEVEL 2 Apex Engineers INTERIOR ELEVATIONS A621 1625 Locust St Kansas City, MO 64108 MATERIAL FINISH LEGEND A681 CONTACT: Logan Chamberlin PHONE: 816.421.3222 STRUCTURAL GENERAL NOTES AND SPECIFICATIONS S100 S200 **RTU FRAMING MECH/ELECT ENGINEER:** S500 TYPICAL STEEL DETAILS RTM Engineering Consultants 9225 Indian Creeek Pkwy MECHANICAL/ELECTRICAL Suite 1075 ME100 SYMBOLS LEGEND / GENERAL NOTES Overland Park, KS 66210 CONTACT: Keith Hammerschmidt PLUMBING DIRECT: 913.303.0048 P101 FIRST FLOOR PLUMBING PLAN SECOND FLOOR PLUMBING PLAN P102 PLUMBING SCHEDULES AND DETAILS P401 MECHANICAL SECOND FLOOR HVAC PLAN M102 ROOF HVAC PLAN M103 MECHANICAL DETAILS M301 **MECHANICAL SCHEDULES & CONTROLS** M401 VICINITY MAP SCIENCE AND TECHNOLOGY BUILDING **DEMOLITION - ELECTRICAL** ED101 ELECTRICAL DEMOLITION PLAN ELECTRICAL BASEMENT / FIRST FLOOR / ROOF ELECTRICAL PLAN E101 SECOND FLOOR ELECTRICAL PLAN E102 **ELECTRICAL DETAILS / SCHEDULES** E301 5 6 8 9 10 11 12

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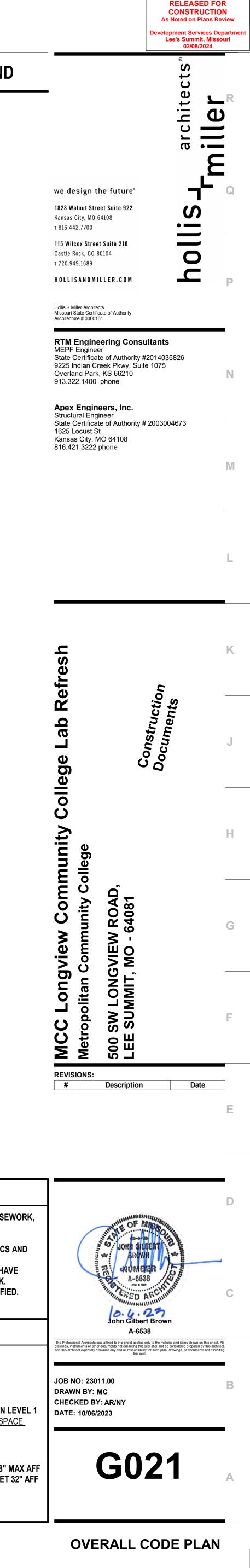






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PROJECT NUMBER		SHEET KEYNOTE LE
PROJECT NAME	23011.00 MCC Longview Community College Lab Refresh	
OWNER	Metropolitan Community College 500 SW Longview Rd	
AUTHORITY HAVING JURISDICTION	Lee's Summit, MO 64081 City of Lee's Summit, Missouri 220 SE Green	
RESPONDING FIRE SERVICE	Lee's Summit, MO 64063	
ANTICIPATED OCCUPANCY	8/1/2024 12:00:00 AM	
ADOPTED CODES AND ORDINANCES	2018 International Building Code 2018 International Existing Building Code	
	2017 National Electric Code (NFPA 70) 2018 International Mechanical Code 2018 International Plumbing Code	
	2018 International Fuel Gas Code 2018 International Fire Code 2009 ICC A117.1 Accessible and Usable Buildings and Facilities	
BUILDING IN OCCUPANCY CLASSIFICATION:	Business, Group B (304.1)	
CONSTRUCTION TYPE:	II-B (602.2, Non-combustible, non-protected) Renovation of existing structure	
BUILDING HEIGHT: Allowable Height (Table 504.3):	75' above grade plane	
Building Height: Allowable Stories (Table 504.4): Building Stories:	Existing; 43' - 4" 4 stories above grade plane Existing; 3 stories	
BUILDING AREA:		
Sprinkler qualifier (Table 506.2): Allowable Area Building Area	SM: Building 2 or more stories above grade plane with automatic sprinkler system 69,000 without frontage increase, 362,250 with frontage. 52,150 sf	
OCCUPANCY SEPARATION:	No separation requirement (Table 508.4)	
FIRE RESISTANCE RATINGS: Primary Structural Frame:	(Per Table 601, 602) 0-Hour fire-resistance rating	
Exterior Bearing Walls: Interior Bearing Walls: Exterior Nonbearing Walls:	0-Hour fire-resistance rating 0-Hour fire-resistance rating 0-Hour fire-resistance rating	
Interior Nonbearing Walls: Floor Construction / Secondary Members: Roof Construction / Secondary Members:	0-Hour fire-resistance rating 0-Hour fire-resistance rating 0-Hour fire-resistance rating	
Fire Walls: Fire Barriers:	No fire walls No fire barriers	
Fire Partitions: Smoke Barriers / Partitions: Shafts:	No fire partitions No smoke barriers / partitions No shaft enclosures	
EGRESS CO		
NUMBER OF EXITS:	2 per space greater than 49 occupants (Table 1006.2.1) 3 per space with load 501 to 1,000; 4 per space over 1,000	
DEAD-END CORRIDORS:	50' Max. with automatic sprinkler system in groups B, E, F, I-1, M, R-1, R-2, R-4, S, U (1020.4, Exception 2)	
COMMON PATH OF TRAVEL: TRAVEL DISTANCE TO EXIT:	100' (Table 1006.2.1) 250' Maximum for A, E, F-1, I-1, M, R, S-1 with sprinkler (Table 1017.2)	
CORRIDOR CONSTRUCTION: CORRIDOR WIDTH:	0-hour fire rating in A, B, E, F, I-2, I-4, M, S, U occupancies with sprinkler (1020.1) 44" minimum corridor width (Table 1020.2)	
MEANS OF EGRESS CAPACITY:	0.2" for stairways (1005.3.1) / 0.15" for doors / other (1005.3.2) (sprinklered bldg)	
FIRE SAFET SPRINKLER: FIRE ALARM SIGNALING: EMERGENCY LIGHTING / POWER: SMOKE CONTROL SYSTEM:	Y FEATURES Existing, Automatic sprinkler system provided throughout Existing Existing Existing Existing	
SPRINKLER: FIRE ALARM SIGNALING: EMERGENCY LIGHTING / POWER:	Existing, Automatic sprinkler system provided throughout Existing Existing	
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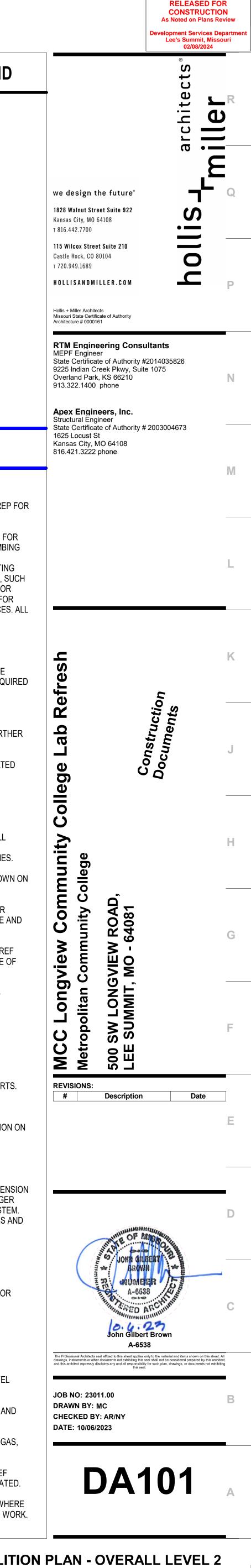
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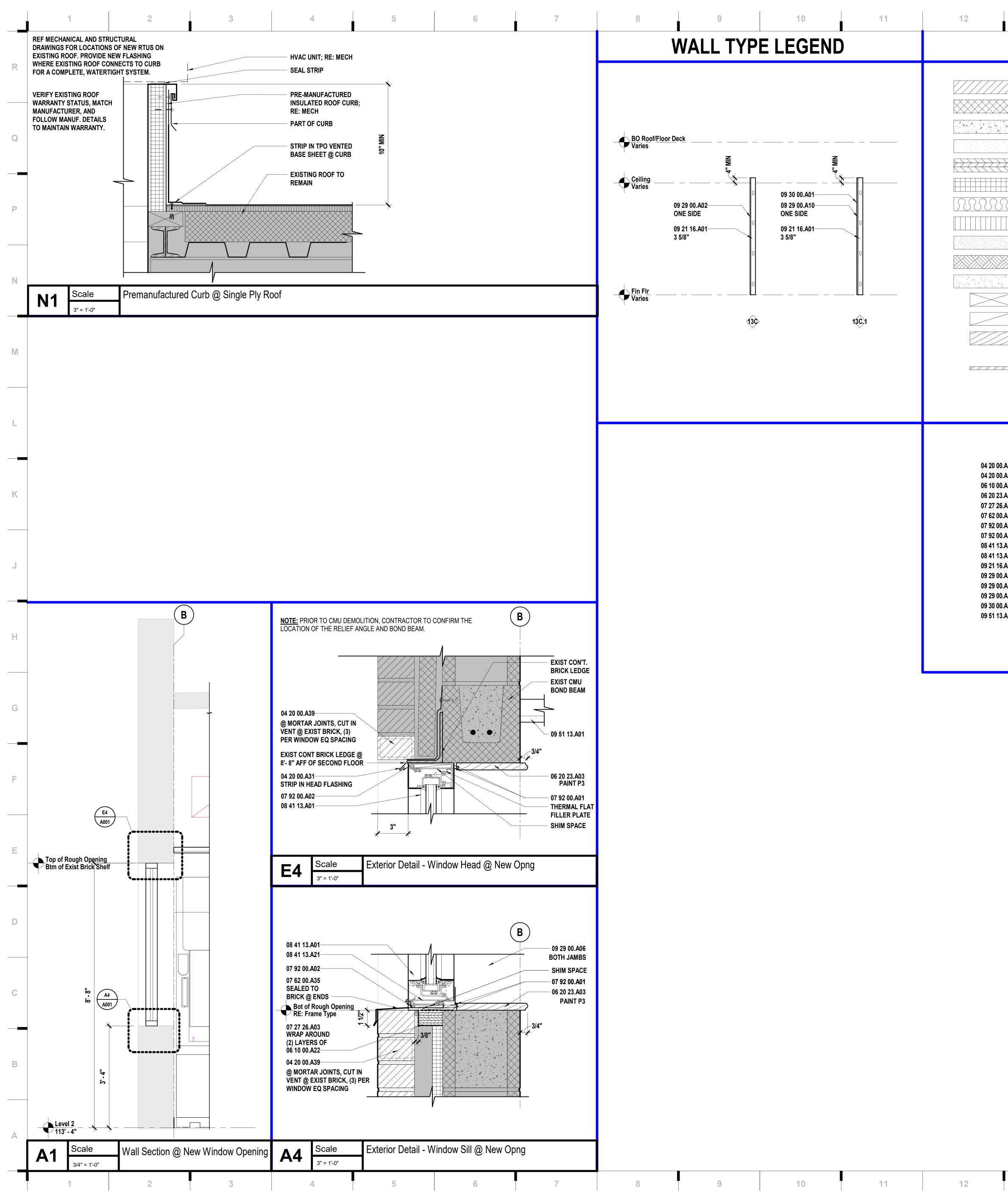


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<image/> <section-header></section-header>	<image/>			SHEET KEYNOTE LEGEND
				DEMOLITION NOTES FLOORS & BASE 1 REMOVE EXISTING BASE INCLUDING ADHESIVE. PREP F NEW BASE (ENTIRE ROOM). 2 REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR UNDER SLAB MECHANICAL, ELECTRICAL AND PLUMBING
t, PLAN NORTHEAST				WORK. SAW CUT OR CORE CONCRETE PRIOR TO REMOVAL. DO NOT SAW CUT OR CORE INTO EXISTING FOUNDATIONS OR OTHER STRUCTURAL MEMBERS, SU AS EXISTING STRUCTURAL JOISTS. REF. STRUCT FOR FURTHER INFO. COORDINATE WITH MEP SHEETS FOR NEW WORK AND CAPPING OF ABANDONED SERVICES. CORES, DEBRIS, AND SPOILS TO BE REMOVED. WALLS REMOVE EXISTING FUME HOOD AND RELATED CASEWORK, REFINISHING COUNTER AND END FACE WHERE CASEWORK REMAINS. PREP SPACE AS REQUIF FOR NEW FUME HOOD AND BASES. REF MEP FOR FURTHER DIRECTION.
				 REMOVE EXISTING FUME HOOD AND RELATED COMPONENTS. REF MEP AND NEW PLANS FOR FURTHE DIRECTION. REMOVE EXISTING CASEWORK, SHELVING, & RELATED COMPONENTS. REMOVE EXISTING SINK AND BASE. REF MEP FOR FURTHER DIRCTION ON PLUMBING. RETAIN TOILET ACCESSORIES TO BE REINSTALLED. REMOVE EXISTING LAB CASEWORK, SINKS, AND ALL RELATED FIXTURES. REF MEP FOR DIRECTION ON RELOCATION OR CAPPING OF WATER AND GAS LINES.
				 RELOCATED EXISTING FIRE EXTINGUISHER AS SHOWN NEW PLANS AND ELEVATIONS. REMOVE EXISTING DOOR KNOB/HANDLE. REF DOOR HARDWARE SPECIFICATIONS FOR NEW HARDWARE AN DOOR FUNCTION. REMOVE EXISTING EYEWASH AND SHOWER UNIT. REF MEP FOR FURTHER DIRECTION ON CAPPING/REUSE OF WATER LINE. REMOVE EXISTING MARKERBOARDS/TACKBOARDS INCLUDING ADHESIVE AND BRACKETS. REMOVE EXISTING PROJECTION SCREEN AND
				PROJECTOR. 11 EXISTING COUNTER TOP LAB EQUIPMENT TO BE RETURNED TO THE OWNER. 12 REMOVE EXISTING RAIL OF COAT HOOKS & SUPPORTS 13 DEMO DISCONNECT PER MEP'S DIRECTIONS. 14 REF SECTIONS AND DETAILS ON A001 FOR DIRECTION CUTTING NEW OPENING FOR WINDOW. CEILINGS
				 REMOVE EXISTING LAY-IN ACOUSTICAL TILE, SUSPENS SYSTEM, AND LIGHTING FXITURES. EXISTING HANGER WIRE MAY BE REUSED FOR NEW SUSPENSION SYSTEM REF MEP FOR ADDITIONAL DIRECTION ON FIXTURES AN CEILING DEVICES. REMOVE EXISTING PROJECTOR AND PROJECTION SCREEN. VERIFY W/ OWNER IF ITEMS SHALL BE RETURNED OR DISPOSED OF. REMOVE EXISTING ELEPHANT TRUNKS. REF MEP FOR FURTHER DIRECTION. REF MEP FOR DUCT/ ADDITIONAL DEMOLITION INSTRUCTIONS AT DEMOLISHED FUME HOOD.
				 GENERAL ALL TOILET ACCESSORIES (SOAP AND PAPER TOWEL DISPENSERS) TO BE REINSTALLED. ALL WAPS, CEILING MOUNTED CAMERAS, CLOCKS, AND FIRE PROTECTION DEVICES TO BE REINSTALLED. REFER TO MEP SHEETS FOR EXISTING PLUMBING, GAS AND ELECTRICAL CONDUIT TO BE CAPPED ALL EXISTING FIRE EXTINGUISHERS TO REMAIN. REF PLANS AND ELEVATIONS FOR ITEMS TO BE RELOCATED REPLACE ALL DAMAGED CEILING TILES IN AREAS WHEN CEILINGS ARE DISTUBED TO PERFROM OVERHEAD WO
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SYMBOL LEGEND

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	BRICK	Classroom	7	
	(in section)	A101	RM NUMB	BER
\mathbf{X}				
	UNIT - CMU (in section)	A123 DOC	OR NUMBER	
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	GYP BD		L TYPE	
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\sum	PLYWOOD	A FRA	ME TYPE	
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	RIGID INSUL & EIFS			
	(in section) BATT INSUL		TION CUT LINE	
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	ACOUSTICAL TILE			
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			t Bearing	DATUM
	BLOCKING/SHIM	100'	-0"	MARKER
	FINISH LUMBER/		EA "A"	
\leq	HARDWOOD			
	STEEL OR METAL		EA "B"	
	SIEEL OR METAL		MATERIAL JOIN	г
			BUILDING EXPA	NSION JOINT
		~		

KEYNOTES

0 00.A31	METAL DRIP EDGES
0 00.A39	WEEP HOLE/VENT
0 00.A22	PRESERVATIVE TREATED PLYWOOD BLOCKING
0 23.A03	MOLDINGS - TRANSPARENT
7 26.A03	TRANSITION MEMBRANE
2 00.A35	PRE-FINISHED MISC METAL FLASHING
2 00.A01	SEALANT
2 00.A02	SEALANT W/BACKER ROD
1 13.A01	THERMAL BROKEN STOREFRONT FRAMING (4.5")
1 13.A21	ALUMINUM SUBSILL
1 16.A01	NON-STRUCTURAL FRAMING
9 00.A02	GYPSUM BOARD - TYPE X
9 00.A06	MOLD AND MOISTURE RESISTANT GYPSUM BOARD
9 00.A10	CEMENTITIOUS BACKER UNITS
0 00.A01	TILE
1 13.A01	ACOUSTICAL CEILING PANELS

ABBREVIATIONS

17

ACT acoustical adj Aff adjustable/adjacent above finish floor ALUM aluminum ALT alternate ANOD anodized APPROX approximate(ly) ARCH architect(ural) BLDG building BLKG blocking BM beam BOT bottom o BRG bearing BRKT bracket BTM bottom BSMT basement BTWN between CAB cabinet CC center to center CEM cement(itious) CG corner guard CJ control joint CLG ceiling CLR clear(ance) СМ contruction manager CMU concrete masonry unit COL CONC column concrete CONST construction CONT continuous CTR center CY cubic yard(s) drinking fountain DF DIA diameter DIM dimension(s) DN down DS downspout DTL detail DWG drawing east E each EA each face FF exterior insulation finish system EIFS EJ expansion joint ELEC electrical ELEV elevation EQ equal EQUIP equipment ETR existing to remain EW each way EXIST existing EXP expansion EXT exterior FA fire alarm FD floor drain foundation FND fire extinguisher FE FEC FF fire extinguisher cabinet finish floor FH fire hose finish(ed) FIN FIXT fixture FLR floor FLEX flexible FOM face of masonry FOPC face of precast FOS face of stud FT (') FTG foot footing field verify FV GA gauge GALV GC GEN galvanized general contractor general GL glass GR grade GYP gypsum GYP BD gypsum board HC handicapped HD head HDWD hardwood HDWR hardware ΗМ hollow metal HORIZ horizontal HR hour HT height HVAC heating, ventilation & air conditioning inside diameter ID IN (") INDIV inch(es) individual INFO nformation INSUL insulation INT interior

М	
MAS	masonry
MATL	material
MAX	maximum
MB MECH	markerboard mechanical
MEP	mechanical/electrical/plumbing
MFR	manufacturer
MIN MISC	minimum miscellaneous
MO	masonry opening
MTD	mounted
MTG HT MTL	mounting height metal
MULL	mullion
N	
N NIC	north not in contract
NO (#)	number
NOM	nominal
NRC NTS	noise reduction coefficient not to scale
-	
0	
00	on center
OD OTS	outside diameter
OPNG	open to structure opening
OPP	opposite
Р	
PAR	narallol
PAR PCP	parallel portland cement plaster
PERP	perpendicular
PL DL DC	property line
PLBG PLYWD	plumbing plywood
PNL	panel
PR	pair
PREFAB PTD	prefabricated painted
PVC	polyvinyl chloride
Р	
<u>R</u>	
RAD RD	radius roof drain
RE:	refer to
REINF	reinforcing (ed)
	reversed
REQ'D RFG	required roofing
-	looning
S	
S	south schedule
SCHED SECT	schedule section
SF	square foot
SHT	sheet
SHWR SIM	shower similar
SPEC	specification
SQ	square
SSTL STC	stainless steel sound transmission coeficient
STD	standard
STL	steel
STRUCT SUSP	structure(al) suspend(ed)
SY	square yard
SYM	symmetrical
<u>T</u>	
T&B	top & bottom
T&G	tongue & groove
TO TOC	top of top of curb
TOC	top of curb top of masonry
TOS	top of slab/steel
TOW TS	top of wall tube steel
TYP	typical
U	••
UNO	unless noted otherwise
V	
VERT	vertical
VTR	vent thru roof
W	
W	west
WD	wood
WDO	window
W/ W/O	with without
-	
<u>Y</u>	
YD	yard
SYMBOL	S
1	per (or by)
&	and
@ [at channel
L ¢	centerline
ø	dia waata uluo waad
	diameter/round
±	plus/minu

JST

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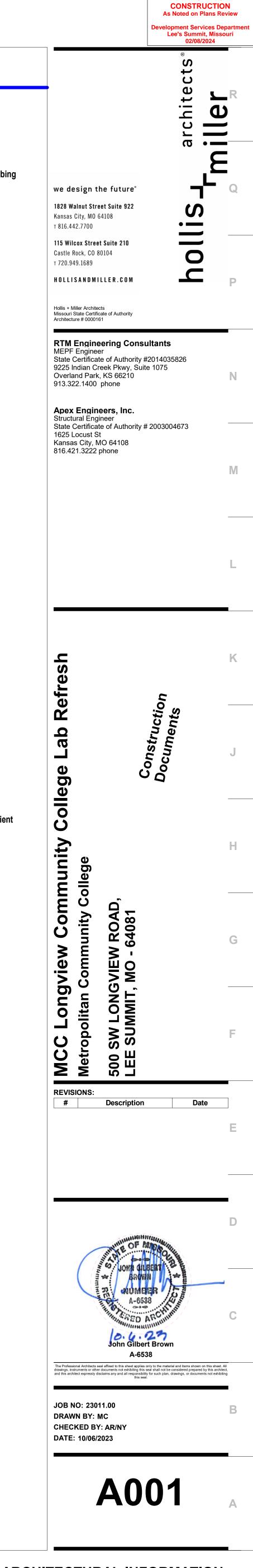
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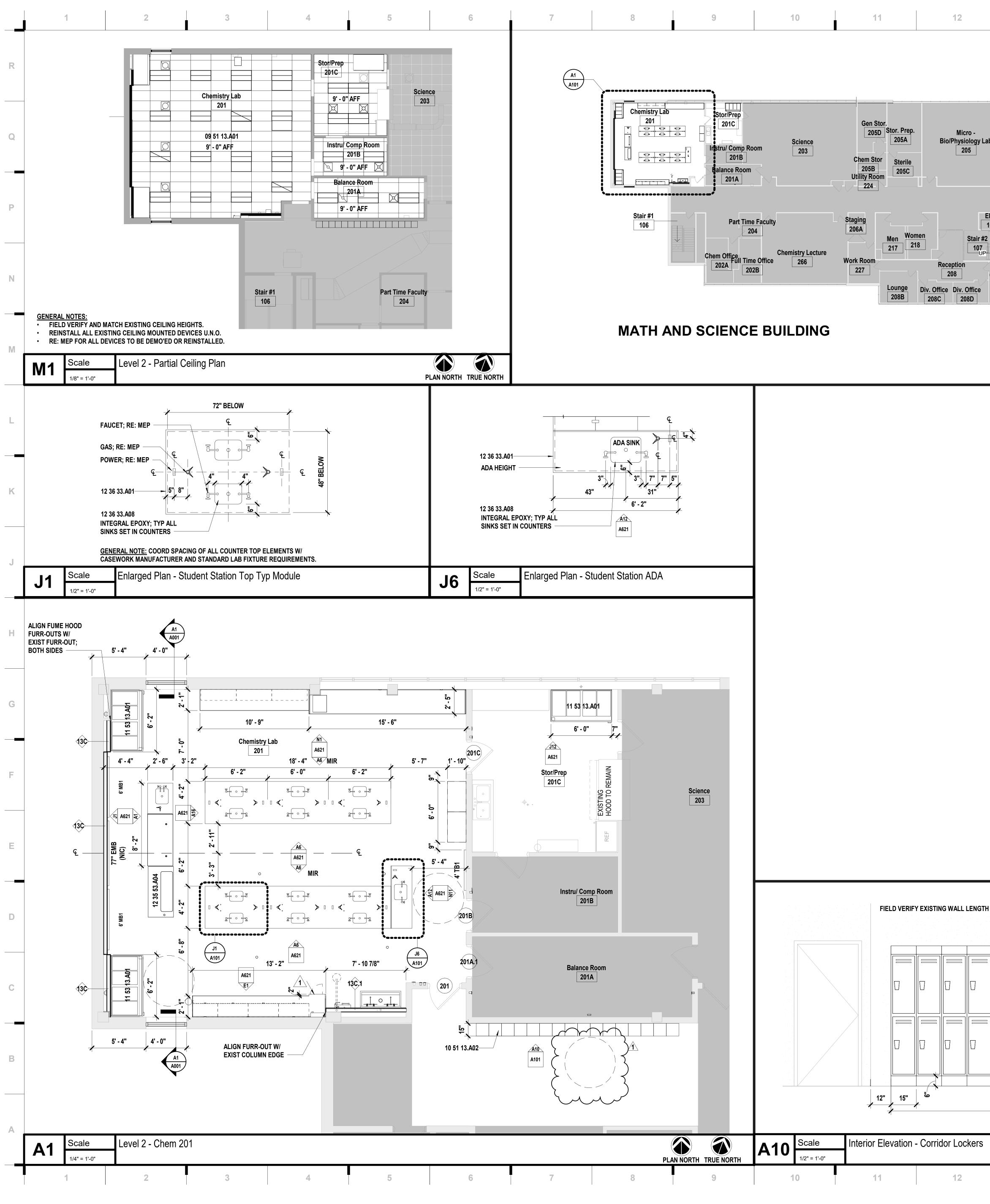
kitchen

locker light

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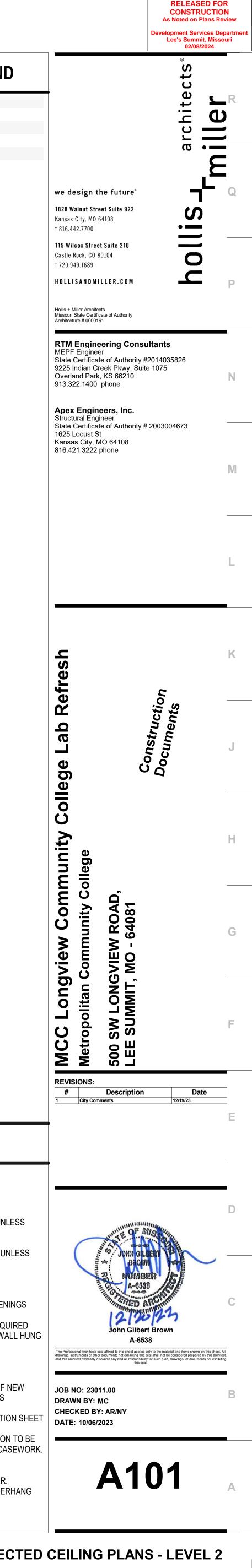


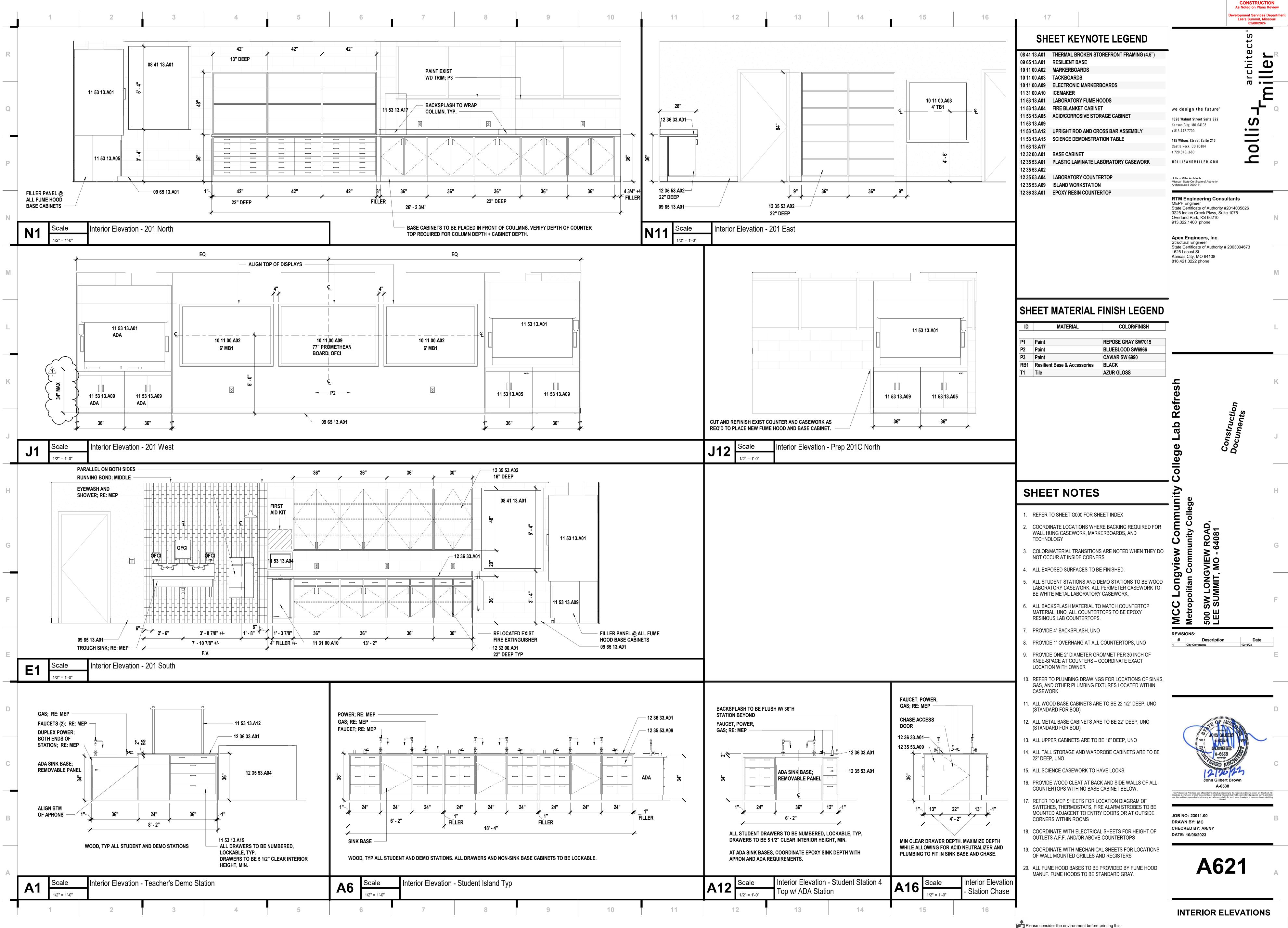
GENERAL ARCHITECTURAL INFORMATION

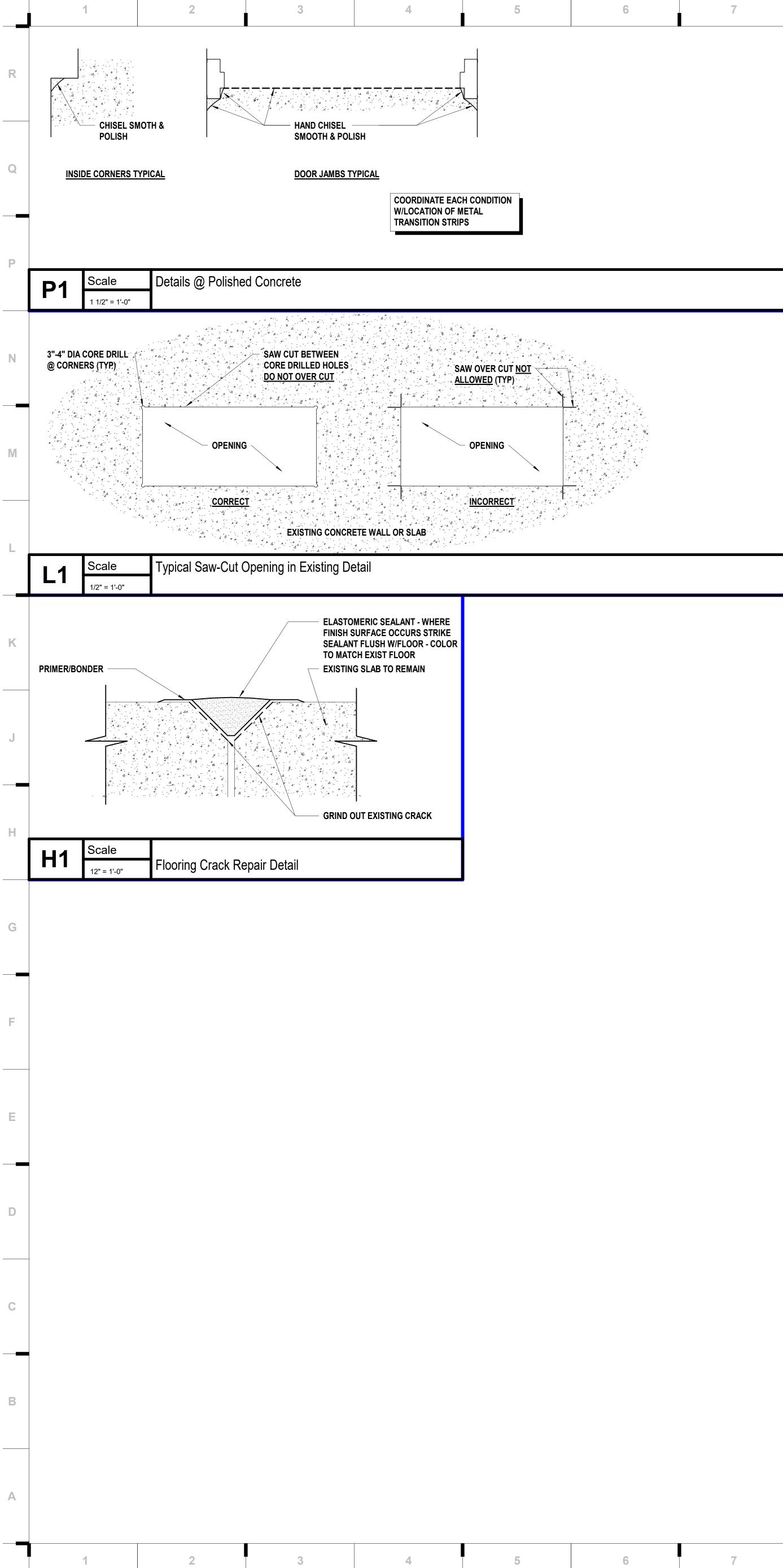


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nen 8 Stair #2 8 107 UP Reception 208 Con	Anatomy/Gen.Bio. Lab 207 Jan Staging 225 212A Biol ference 08E	Stor. Prep. 207B 209A Part Time Faculty6C 214 Bio			09 51 13.A01ACOUSTICAL CEILING PANELS10 51 13.A02WELDED CORRIDOR LOCKERS11 53 13.A01LABORATORY FUME HOODS12 35 53.A04LABORATORY COUNTERTOP12 36 33.A01EPOXY RESIN COUNTERTOP12 36 33.A08EPOXY RESIN SINK
Y EXISTING WALL LENGTH PRI	OR TO ORDERING LOCKERS.				SHEET NOTES 1. REFER TO SHEET GOOD FOR SHEET INDEX 2. DO NOT SCALE THIS DRAWING
Corridor Lockers		SLOPED TOP, CONT.			 ALL NEW INTERIOR WALLS ARE WALL TYPE 13C UNLENOTED OTHERWISE. INTERIOR DIMENSIONS ARE TO THE FOLLOWING, UNLINOTED OTHERWISE: A. TO FACE OF STUD B. TO FACE OF MASONRY UNIT C. TO FACE OF DOOR AND WINDOW ROUGH OPENIN COORDINATE LOCATIONS WHERE BACKING IS REQUIDED FOR WALL HUNG CASEWORK, MARKERBOARDS, WALLACCESSORIES AND TECHNOLOGY "MIR" STANDS FOR MIRRORED LAYOUT. COORDINATE WALL REPAIR AND INSTALLATION OF NEDDORS AND WINDOWS WITH DEMOLITION SHEETS COORDINATE FINISHES TO REMAIN WITH DEMOLITION NEW STUDENT LAB CASEWORK AND DEMO STATION "PLACED IN THE SAME LOCATION AS DEMOLISED CASE VERIFY FULL DEPTH OF WATER BOX + ICE MAKER. COUNTER BUMPS OUT AND SHOULD HAVE 1" OVERHPLUS THE TOTAL DEPTH.
12	13	14	15	16	FLOOR & REFLEC Please consider the environment before printing this.







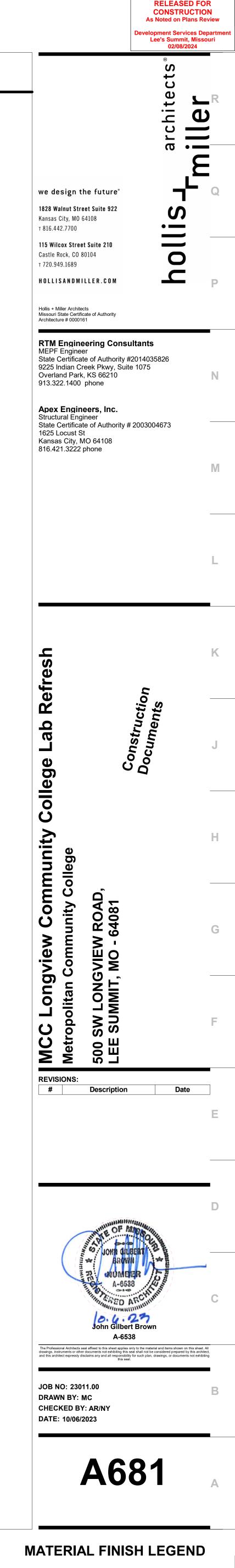
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							MATE	RIAL	- FINIS	H LEG	E
	MATE	RIAL	ID	KEYNOT	E	MANUF	ACTURER		ST	YLE/MODEL NO)
	Ceiling		CLG1	09 51 13.A01	AR	MSTRONG		UL	_TIMA #1915, BE\	/ELED, 86185	
	Concrete Finis	h	CON1	03 30 00.A26	HI-	TECH SYSTEMS, PI	ROSOCO LS		r Spall-TX3; Fo Dlish guard &		
	Paint		P1	09 91 23.A02	SH	ERWIN WILLIAMS		RE	EFER TO MASTE	R SPEC	
	Paint		P2	09 91 23.A02	SH	IERWIN WILLIAMS		RE	EFER TO MASTE	R SPEC	
	Paint		P3	09 91 23.A02	SH	IERWIN WILLIAMS		RE	EFER TO MASTE	R SPEC	
	Resilient Base	& Accessories	RB1	09 65 13.A01	RC)PPE		ST	ANDARD TOE B	ASE	
	Tile		T1	09 30 00.A01	WC	OW CERAMIC TILE,	VIRGINIA TILE	BE	EJMAT		
	NO		ROOM	Name		FLOOF Finish		North	SH SC WA East	HEDU LLS South	L
	NO			Name		FLOOF	8		WA	LLS	
	201	Chemistry La	l ab	Name		FLOOF	8		WA	LLS	
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	201 201A 201B 201C	Balance Roo Instru/ Comp Stor/Prep	ab om o Room DOOR DOOR Size	OR SCH	e Glass	FLOOF Finish	R Base RB1 1	North P1 P1	WA East P1	LLS South	
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GENERAL FINISH NOTES

- REFER TO FINISH FLOOR PLANS, REFLECTED CEILING PLANS, ELEVATIONS, AND DETAILS FOR EXTENT OF MULTIPLE FINISHES.
- 2. DO NOT PAINT NATURAL OR MANUFACTURED STONE, BRICK, GLAZED BLOCK OR ANY OTHER PREFINISHED MATERIALS.
- 3. DO NOT PAINT ALUMINUM OR OTHER NON-FERROUS METALS THAT ARE PREFINISHED.
- 4. MATCH VERTICAL FINISH OF ALL INTERIOR GYPSUM BOARD SOFFITS TO HORIZONTAL FINISH AS NOTED ON RCP OR ROOM FINISH SCH
- 5. PAINT ALL EXPOSED CEILINGS DESIGNATED AS 'OTS' AS INDICATED ON ROOM FINISH SCHEDULE. PAINTING INCLUDES, BUT IS NOT LI MECHANICAL EQUIPMENT.
- 6. PAINT ALL EXPOSED STEEL, UNO.
- 7. PAINT ALL INTERIOR HOLLOW METAL DOORS AND FRAMES COLOR P3, UNO.
- 8. PAINT OR FINISH THE FOLLOWING ITEMS TO MATCH ADJACENT PAINT OR FINISH:
 - a. ELECTRICAL PANELS IN FINISHED ROOMS
 - b. GRILLES, LOUVERS ETC. PRIMED OR SPECIFIED TO BE PAINTED c. UNFINISHED SPEAKER OUTLET GRILLES
 - d. VISIBLE PORTIONS OF DUCTWORK AND MECH EQUIPMENT BEHIND VENTS, GRILLES AND DIFFUSERS

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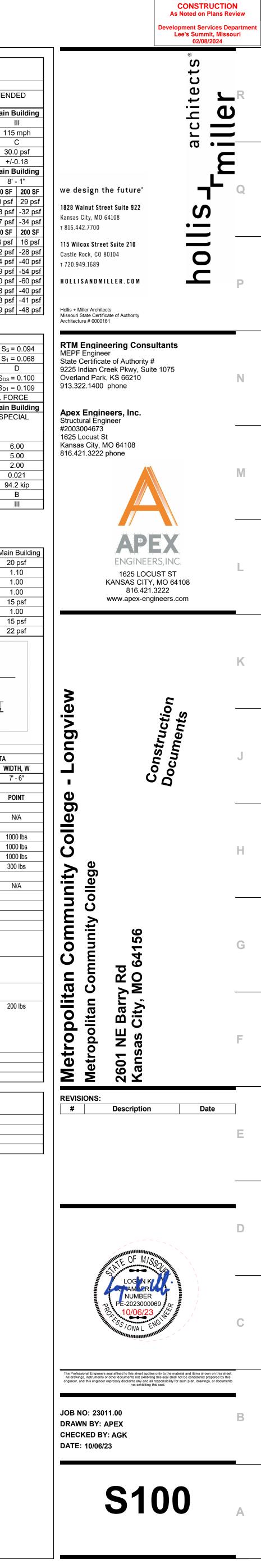
	13	14		15	16		17		
END							SHEET	KEYNOTE LI	EGEND
)	COLOR	/FINISH 24	I"X 48". TYPICAL N	COMMENTS					
NSOLIDECK, DTECTOR SB	CLEAR	SL	JSPENSION SYSTE	INCE IN COLONNING IM DENSIFIER AND SE/					
	REPOSE GRAY SV BLUEBLOOD SW6		ELD CCENT, TEACHING	WALL					
	CAVIAR SW 6990 BLACK	4"		ORS AND FRAMES					
	AZUR GLOSS	5X	(15 cm (2"X6")						
LE									
West	CEILING Finish	Fir	nish Remarks		_				
P2	CLG1 1								
	CLG1 3 CLG1 3 CLG1 2								
						_			
		R	ROOM SC	HEDULE F	REMARKS				
		1.		TO BE PAINTED P3 CLEAR COAT, REF	3. REFINISH ALL WOOD 099300.				
DOOR HARD	7100 FOR NEW WARE SETS. NO		PATCH AND RE WAS REMOVED	FINISH WALL WHEI).	RE EXISTING FUME HOOE OR ADDITIONAL INFO.	D			
OTHER CHAN DOORS THEN	NGES TO THE MSELVES.								
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HEDULE, UNO.									
	POSED STRUCTURE	E, JOISTS, METAL DE	CKING, EXISTING	TECTUM PANELS, I	DUCTWORK AND				

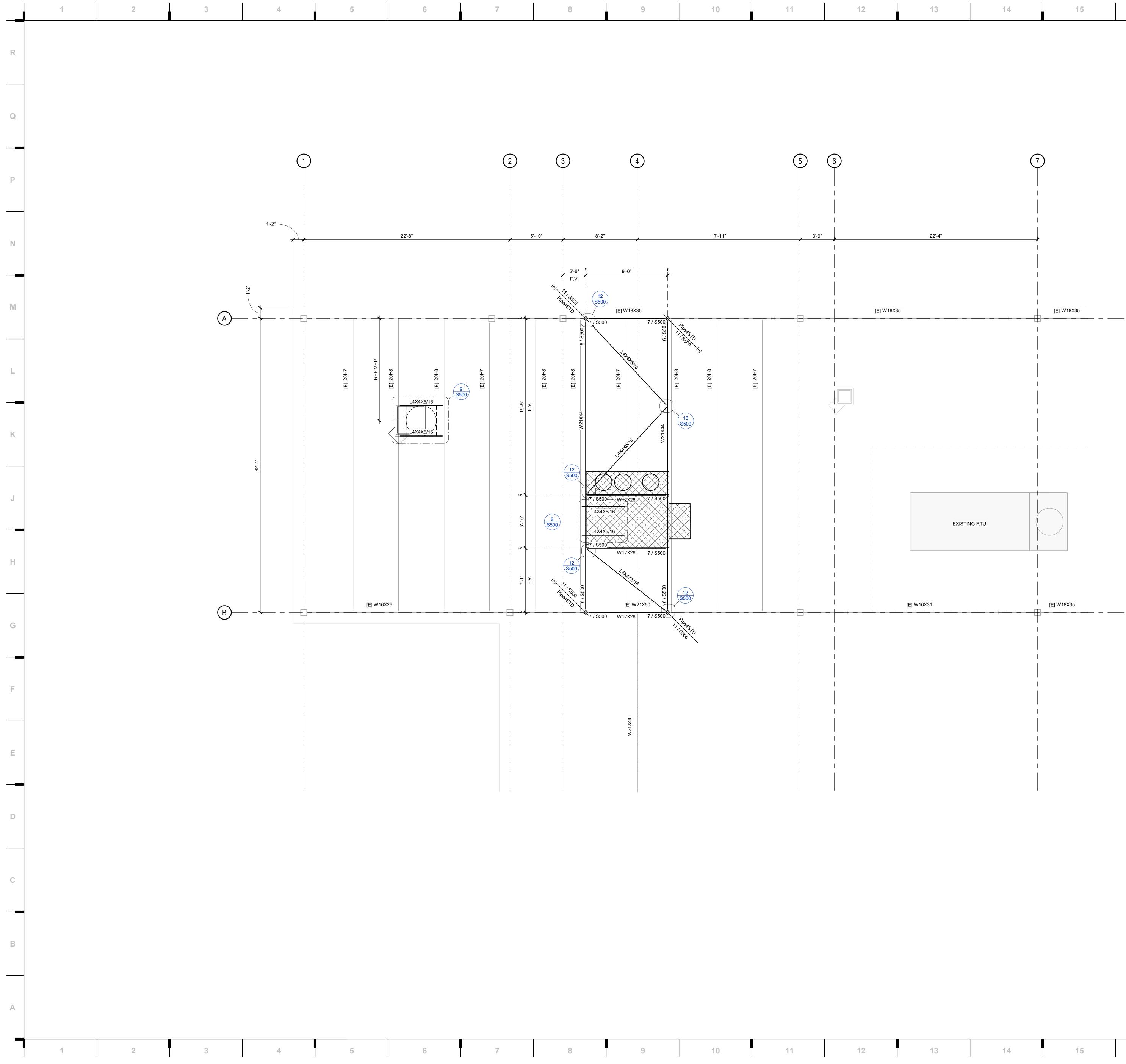


	1	2	3	4	5	6
R						1. ALL STRUC GOVERNING AND BRIDGES
						2. BOLTED CO ACCORDANC GRADE A325 CONNECTION 3. WELDED C "STRUCTURA
Q						WELDING SO OF TABLE 3.1 CONFORMING 4. SPLICING O WITHOUT THI 5. CHANGES
						CUTS, ETC. T THE APPROV 6. NO FINAL E WILL BE STIF 7. FABRICATE 8. ALL VISIBL
Ρ						SMOOTH. DO 9. THE FABRI CONNECTION FABRICATOR FOR ALL CON CHAPTER 10
						10. STEEL ME AT A MINIMU MEMBERS CO PAINT, UNO. I EXPOSED ST
N						1. DESIGN, FA INSTITUTE AN 2. PROVIDE B BOTTOM CHO
M						SPECIFIED IN 3. ALL BAR JO CONFORMINO AREAS. 4. JOIST GIRE
						5. JOIST GIRE TO ADD SELF 6. MECHANIC SUPPORTING IF CURB NEE 7. REFER TO DESIGNED AS
L						8. ADD-LOADS POINT ALONG GRAVITY LOA 9. BEND-CHE JOIST TOP CH THIS LOAD A
						10. DEAD LOA FOR WEIGHT 11. JOIST EXT ANY ADDITIO 12. HANGING LOAD ON THE
K						DESIGNER NO ADDITIONAL POINT. 13. COMBINE EQUIPMENT DESIGNER NO
J						
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	1	2	3	4	5	6

6 7 8	9 10 11	12 13	14 15 16	17
NOTES - STEEL	NOTES - GENERAL	STATEMENT OF SPECIAL INSPECTION	SYMBOLS & ABBREVIATIONS	DESIGN INFORMATION
1. ALL STRUCTURAL STEEL TO BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE GOVERNING EDITION OF THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS	1. THESE DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL	IBC CODE REFERENCE CONSTRUCTION TYPE FREQUENCY CONT.	x DETAIL ON SHEET DETAILS, SECTIONS, AND SHEET NUMBER ELEVATIONS	
AND BRIDGES." 2. BOLTED CONNECTIONS: ALL BOLTED CONNECTIONS SHALL BE SNUG-TIGHT IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM F3125	INTO THEIR SHOP DRAWINGS AND WORK. 2. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.	1705.2 STEEL CONSTRUCTION 1705.2.1 STRUCTURAL STEEL	T.O.W. = XXX' - XX"ELEVATION (TOP) ELEVATION (BOTTOM)FOUNDATION WALLS AND LEDGES (SIM)	BY LOCAL BUILDING CODES WIND DESIGN DATA: Main Build
GRADE A325 OR A490 BOLTS" PUBLISHED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS.	3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.	1. SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360. (REFER TO AISC CHARTS ON THIS SHEET)	T.O.X. ELEVATION MARK LEVELS, SPOT ELEVATIONS ************************************	OCCUPANCY CATEGORY III ULTIMATE WIND SPEED (3 SECOND GUST), V 115 mp WIND EXPOSURE CATEGORY C
3. WELDED CONNECTIONS: ALL WELDING SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING SOCIETY CODE" (AWS D1.1) PUBLISHED BY THE AMERICAN WELDING SOCIETY. ELECTRODES FOR WELDING SHALL COMPLY WITH THE REQUIREMEN"	4. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE TS DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.	1705.2.2 COLD-FORMED STEEL DECK 1. SPECIAL INSPECTIONS AND QUALIFICATIONS OF WELDING SPECIAL	REVISION MARK SHEET REVISIONS	VELOCITY PRESSURE, qz 30.0 ps INTERNAL PRESSURE COEFFICIENT, GCpi +/-0.18
OF TABLE 3.1 OF AWS D1.1. ALL WELDING TO BE DONE BY QUALIFIED WELDERS CONFORMING TO THE AMERICAN WELDING SOCIETY STANDARDS. 4. SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED	5. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S	INSPECTORS FOR COLD-FORMED STEEL FLOOR AND ROOF DECK SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI QA/QC. (REFER TO SDI CHARTS ON THIS SHEET)	ABV DEFINITION ABV DEFINITION ARCH ARCHITECT LLV LONG LEG VERTICAL	WIND DESIGN COMPONENTS & CLADDING DATA: Main Build EDGE REGION, a 8' - 1"
WITHOUT THE WRITTEN APPROVAL OF APEX ENGINEERS, INC. 5. CHANGES IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS, AND HOLES, SLOTS,	CONSTRUCTION METHODS AND/OR SEQUENCES. 6. FOUNDATION WALLS SHALL NOT BE BACKFILLED UNTIL LOWER AND UPPER SLABS ARE IN	1705.2.3OPEN-WEB STEEL JOIST AND JOIST GIRDERS1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS:A. END CONNECTIONS - WELDING OR BOLTEDX	BO BOTTOM OF LONG LONGITUDINAL BOF BOTTOM OF FOOTING MECH MECHANICAL BOS BOTTOM OF STEEL MEP MECH, ELECTRICAL, PLUMBING	WALL ZONES 10 SF 20 SF 50 SF 100 SF 20 4 & 5 35 psf 34 psf 32 psf 30 psf 29 4 -38 psf -37 psf -35 psf -33 psf -32 psf -33 psf -32
CUTS, ETC. THROUGH ANY MEMBER, ARE NOT PERMITTED UNLESS THEY ARE DETAILED (THE APPROVED SHOP DRAWINGS. 6. NO FINAL BOLTING OR WELDING SHALL BE MADE UNTIL AS MUCH OF THE STRUCTURE A	 PLACE AND REACH FULL STRENGTH UNLESS ADEQUATE BRACING IS PROVIDED. USE ONLY HAND OPERATED TOOLS FOR COMPACTION ADJACENT TO FOUNDATION WALLS AND S FOOTINGS. FOOTINGS SHALL BE BACKFILLED EVENLY ON BOTH SIDES. 	A. END CONNECTIONS - WELDING OR BOLTED X B. BRIDGING - HORIZONTAL OR DIAGONAL 1. STANDARD BRIDGING X X	BOS BOTTOM OF STEEL MEP MECH, ELECTRICAL, PLUMBING BOT [B] BOTTOM MFR MANUFACTURER BOW BOTTOM OF WALL NA NOT APPLICABLE	5 -47 psf -44 psf -40 psf -37 psf -34 ROOF ZONES 10 SF 20 SF 50 SF 100 SF 20
WILL BE STIFFENED THEREBY HAS BEEN PROPERLY ALIGNED. 7. FABRICATE ALL BEAMS WITH THE MILL CAMBER UP UNO.	7. UNLESS OTHERWISE NOTED, FIREPROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS. REFERENCE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE	2. BRIDGING THAT DIFFERS FROM THE SJI X SPECIFICATIONS LISTED IN SECTION 2207.1	BRG BEARING NS NEAR SIDE CTR [C] CENTER NTS NOT TO SCALE	All Zones 16 psf 16 psf <th16 psf<="" th=""> <th16 psf<="" th=""> <th16 psf<<="" td=""></th16></th16></th16>
 8. ALL VISIBLE WELDED CONNECTIONS ON ARCHITECTURAL ELEMENTS TO BE GROUND SMOOTH. DO NOT REDUCE THROAT SIZE OF WELD. 9. THE FABRICATOR SHALL BE RESPONSIBLE FOR THE DESIGN AND PERFORMANCE OF AL 	PROOFING METHODS AND MATERIALS.	AISC TABLE N5.4-1	CGS CENTER OF GRAVITY STRAND OC ON CENTER CIP CAST-IN-PLACE OPP OPPOSITE CJ CONTRACTION/CONTROL JOINT PAF POWDER ACTUATED FASTENER	1 -56 psf -53 psf -48 psf -44 psf -44 2 -74 psf -70 psf -63 psf -59 psf -59 3 -102 psf -92 psf -79 psf -70 psf -60 psf -60 psf
CONNECTIONS NOT FULLY DESIGNED OR DETAILED IN THE CONTRACT DOCUMENTS. FABRICATOR TO PROVIDE ENGINEERED STAMPED SHOP DRAWINGS AND CALCULATIONS FOR ALL CONNECTIONS THAT DO NOT COMPLY WITH AISC STEEL CONSTRUCTION MANUA	9. THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE L RESPONSIBILITY FOR SUCH DEVIATION BY THE ARCHITECT/ENGINEER'S APPROVAL OF	INSPECTION TASKS PRIOR TO WELDINGQCQA1. WELDING PROCEDURE SPECIFICATIONS (WPSs)PP	CL CENTERLINE PARL PARALLEL CLR CLEAR PERP PERPENDICULAR	1' & 1 OH -51 psf -50 psf -49 psf -48 psf -40 2 OH -69 psf -63 psf -54 psf -48 psf -4
CHAPTER 10 SIMPLE SHEAR CONNECTIONS. 10. STEEL MEMBERS ON THE EXTERIOR OF THE BUILDING OR EXPOSED TO SOIL MUST BE, AT A MINIMUM, PROPERLY PRIMED WITH RUST INHIBITING PRIMER AND PAINTED. STEEL	SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS HE HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE ARCHITECT/ ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.	AVAILABLE Image: Formula in the second sec	COL COLUMN PI POST-INSTALLED CONT CONTINUOUS PT POST-TENSION	3 OH -96 psf -85 psf -70 psf -59 psf -48
MEMBERS COMPLETELY ENCLOSED IN BUILDING ENVELOPE DO NOT REQUIRE PRIMER OR PAINT, UNO. REFER TO ARCHITECTURAL DOCUMENTS FOR ADDITIONAL REQUIREMENTS C	10. ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS, SHALL BE BROUGHT TO THE ATTENTION OF	3. MATERIAL IDENTIFICATION (TYPE/GRADE)004. WELDER IDENTIFICATION SYSTEM100	DIA DIAMETER RAD RADIUS DT DRAG TRUSS REF REFERENCE EA EACH RTU ROOF TOP UNIT	SEISMIC DESIGN SITE DATA: SPECTRAL RESPONSE COEFFICIENTS
EXPOSED STEEL.	THE ARCHITECT/ENGINEER. PLANS AND/OR SPECIFICATIONS WILL BE CORRECTED, OR WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGUITY WILL BE MADE BY THE ARCHITECT/ENGINEER BEFORE THE AFFECTED WORK	5. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATION	EL EL EL EOD EDGE OF DECK SOG	SITE CLASS (ASSUMED) D
NOTES - STEEL JOIST & GIRDERS 1. DESIGN. FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE STEEL JOIS	PROCEEDS. 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING, TFABRICATION AND INSTALLATION. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS IN	DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) CLEANLINESS (CONDITION OF STEEL SURFACES)	EOR ENGINEER OF RECORD STD STANDARD EOS EDGE OF STEEL [T] TOP EQ EQUAL T&B TOP AND BOTTOM	DESIGN SPECTRAL RESPONSE S _{DS} = 0.1 ACCELERATIONS SD1 = 0.1 SEISMIC ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE
INSTITUTE AND THE GOVERNING EDITION OF IBC SECTION 2206. 2. PROVIDE BRIDGING AT ALL JOISTS PER SJI REQUIREMENTS (TYP). PROVIDE ADDITIONA	THE FIELD NECESSARY TO VERIFY OR SUPPLEMENT DIMENSIONS SHOWN ON THE	TACKING (TACK WELD QUALITY AND LOCATION) BACKING TYPE AND FIT (IF APPLICABLE)	EQ EQUAL T&B TOP AND BOTTOM EW EACH WAY TO TOP OF [E] EXISTING TOC TOP OF CONCRETE	SEISMIC DESIGN BUILDING DATA: Main Build LATERAL SYSTEM: B. BUILDING FRAME SYSTEMS, No. 2. STEEL SPECIAL
BOTTOM CHORD BRIDGING FOR STRESS REVERSAL NECESSARY TO RESIST UPLIFT AS SPECIFIED IN DESIGN INFORMATION. 3. ALL BAR JOISTS SHALL HAVE ONE SHOP COAT OF RUST INHIBITOR PRIMER PAINT	CONTRACT DRAWINGS. REVIEW OF THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLETING THE WORK SUCCESSFULLY IN	6. CONFIGURATION AND FINISH OF ACCESS HOLES007. FIT-UP OF FILLET WELDS• DIMENSIONS (ALIGNMENT, GAPS AT ROOT)00	EXTEXTERIORTODTOP OF DECKFSFAR SIDETOFTOP OF FOOTING	CONCENTRICALLY BRACED FRAMES RESPONSE MODIFICATION, R 6.00
CONFORMING TO SPECIFICATIONS. FIELD TOUCH UP ALL UNPAINTED AREAS AND WELD AREAS. 4. JOIST GIRDER PANEL LOADS INCLUDE LOADS FROM MECHANICAL ZONES.	ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS. 12. SUBMIT PRINTS OR ELECTRONIC COPIES OF EACH SHOP DRAWINGS. REPRODUCIBLE COPIES OF CONTRACT DOCUMENTS SHALL NOT BE USED AS SHOP DRAWINGS. SHOP	CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION) 8. CHECK WELDING EQUIPMENT O -	FRTFIRE RETARDANT TREATEDTOLTOP OF LEDGEFVFIELD VERIFYTOMTOP OF MASONRYGAGAUGETOSTOP OF STEEL	$- \frac{1}{10000000000000000000000000000000000$
 JOIST GIRDER VEIGHT IS NOT INCLUDED IN PANEL POINT LOADS. JOIST SUPPLIER TO ADD SELF WEIGHT INTO GIRDER DESIGN. 	DRAWINGS SHALL BE REVIEWED BY CONTRACTOR PRIOR TO SUBMISSION. CONTRACTOR STAMP SHOP DRAWINGS ACCEPTING RESPONSIBILITY FOR COORDINATION OF DIMENSIONS SHOWN IN THE CONTRACT DOCUMENTS, QUANTITIES AND COORDINATION WITH OTHER	¹ THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER	GC GENERAL CONTRACTOR TOW TOP OF WALL GT GIRDER TRUSS TR TREATED	SEISMIC RESPONSE COEF., Cs 0.021 SEISMIC BASE SHEAR, V 94.2 kip
6. MECHANICAL SUPPLIER TO PROVIDE CURB DETAIL/DESIGN TO SPAN BETWEEN SUPPORTING JOISTS. IT IS THE RESPONSIBILITY OF THE MECHANICAL SUPPLIER TO VERIF IF CURB NEEDS ADDITIONAL SUPPORTS BETWEEN JOISTS.	TRADES. DRAWINGS NOT BEARING CONTRACTOR'S STAMP MAY BE REJECTED AT THE DISCRETION OF THE ARCHITECT OR STRUCTURAL ENGINEER.	CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE	HAS HEADED ANCHOR STUD TRANS TRANSVERSE HORZ HORIZONTAL TYP TYPICAL	SEISMIC DESIGN CATEGORY B SEISMIC RISK CATEGORY III
7. REFER TO PLAN FOR ANY ADDITIONAL LOADS. POINT LOADS SHOWN IN PLAN SHOULD B DESIGNED AS AN ADD-LOAD AND BEND-CHECK LOAD.	TO RETURN TO THE NEXT PARTY FOR THEIR ACTION. SHOP DRAWINGS SHOULD BE	AISC TABLE N5.4-2	INT INTERIOR UNO UNLESS NOTED OTHERWISE ISO ISOMETRIC VERT VERTICAL LLH LONG LEG HORIZONTAL WP WORK POINT	-
8. ADD-LOADS ARE A SINGLE CONCENTRATED LOAD WHICH CAN OCCUR AT ANY PANEL POINT ALONG THE JOIST IN THE DESIGNATED AREA. THIS LOAD IS IN ADDITION TO ALL GRAVITY LOADS INDICATED ON PLANS.	SUBMITTED INCREMENTALLY AS APPROPRIATE PACKAGES ARE PREPARED TO EQUALIZE THE WORKLOAD FOR REVIEW OF THE DRAWINGS. SUBMISSION OF A LARGE VOLUME OF SHOP DRAWINGS AT ONE TIME MAY RESULT IN REVIEW TIMES WHICH WILL EXCEED THOSE	1. USE OF QUALIFIED WELDERS002. CONTROL AND HANDLING OF WELDING CONSUMABLES0		ROOF SNOW LOAD DATA: Main Buil GROUND SNOW LOAD, Pq 20 psf
9. BEND-CHECK LOADS ARE A SINGLE CONCENTRATED LOAD USED IN THE DESIGN OF THE JOIST TOP CHORD FOR THE ADDITIONAL BENDING STRESSES RESULTING FROM APPLYING THIS LOAD AT ANY LOCATION BETWEEN JOIST PANEL POINTS.		PACKAGING O EXPOSURE CONTROL S. NO WELDING OVER CRACKED TACK WELDS O O		SNOW LOAD IMPORTANCE FACTOR, Is 1.10 SNOW EXPOSURE FACTOR, Ce 1.00
10. DEAD LOAD SHOWN IN THE DESIGN INFORMATION ACCOUNTS FOR A 5 PSF LOAD FOR WEIGHT OF JOISTS.	NOTES - DEFERRED SUBMITTALS	4. ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS 0 • PRECIPITATION AND TEMPERATURE	BASE PLATE CALLOUT	THERMAL FACTOR, Ct 1.00 FLAT ROOF SNOW LOAD, Pf 15 psf SLOPE FACTOR, Cs 1.00
 JOIST EXTENSIONS TO BE DESIGNED FOR SAME UNIFORM LOAD AS JOIST INCLUDING ANY ADDITIONAL DRIFT LOAD SHOWN IN THESE PLANS. HANGING EQUIPMENT LOADS MUST BE SUPPORTED FROM TOP CHORD. EACH POINT 	1. THE ARCHITECT OR ENGINEER OF RECORD SHALL LIST THE DEFERRED SUBMITTALS ON THE PLANS FOR REVIEW BY THE BUILDING OFFICIAL.	5. WPS FOLLOWED • SETTINGS ON WELDING EQUIPMENT		SLOPE FACTOR, Cs 1.00 SLOPED ROOF SNOW LOAD, Ps 15 psf MINIMUM SNOW LOAD, Pm 22 psf
LOAD ON THE JOIST MUST BE LESS THAN THE BEND CHECK LOAD SHOWN IN STEEL JOIST DESIGNER NOTES. WHERE HANGING EQUIPMENT IS OUTSIDE OF MECHANICAL ZONE, AN ADDITIONAL SUPPORT ANGLE SHALL BE PROVIDED TO TRANSFER LOAD TO NEAREST PAN	2. DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO IEL THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL	TRAVEL SPEED SELECTED WELDING MATERIALS SHIELDING GAS TYPE/FLOW RATE O	PLATE SHOWN FOR ORIENTATION	
POINT. 13. COMBINED LOAD ON EACH JOIST FROM ROOF TOP EQUIPMENT AND INTERIOR HANGIN EQUIPMENT SHALL NOT EXCEED THE ADD LOAD CALLED OUT IN THE STEEL JOIST	DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN THE GENERAL CONFORMANCE	PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) PROPER POSITION (F, V, H, OH)	BASE PLATE TAG	Surcharge Load Due to Drifting
DESIGNER NOTES	SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. 4. DEFERRED SUBMITTALS ARE DEFINED AS THOSE PORTIONS OF THE DESIGN THAT ARE NOT SUBMITTED AT THE TIME OF THE APPLICATION AND THAT ARE TO BE SUBMITTED TO	6. WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS O O	COLUMN SIZE	h _c h _d P _d
	THE BUILDING OFFICIAL WITHIN A SPECIFIED PERIOD. 5. DEFERRAL OF ANY SUBMITTAL ITEMS SHALL HAVE THE PRIOR APPROVAL OF THE	EACH PASS MEETS QUALITY REQUIREMENTS		$\begin{vmatrix} \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} \\ \hline \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} \\ \hline \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} \\ \hline \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} \\ \hline \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} \\ \hline \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} \\ \hline \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} \\ \hline \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} \\ \hline \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} \\ \hline \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} \\ \hline \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} \\ \hline \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} \\ \hline \bullet_{\frac{1}{2}} & \bullet_{\frac{1}{2}} \\ \hline \bullet_{\frac{1}{2}} & \bullet$
	BUILDING OFFICIAL. 6. SUBMITTALS SHALL INCLUDE DETAILED DRAWINGS OF EACH MEMBER AND ITS CONNECTIONS ALONG WITH SUPPORTING CALCULATIONS PREPARED UNDER THE	AISC TABLE N5.4-3	CENTERLINES OF COLUMN GRID/DIMENSION LINES	FIGURE 7-8 Configuration of Snow Drifts on Lower Roofs. NOTE: DESIGNER MUST CONSIDER ALL SNOW LOAD CASES PER ASCE 7
	SUPERVISION, BEARING THE SEAL AND SIGNATURE, OF A LICENSED PROFESSIONAL ENGINEER IN THE PROJECT JURISDICTION.	INSPECTION TASKS AFTER WELDINGQCQA1. WELDS CLEANEDOO2. SIZE, LENGTH AND LOCATION OF WELDSPP		COMMENTS COMMENTS
	NOTES - SHOP DRAWING SUBMITTALS	3. WELDS MEET VISUAL ACCEPTANCE CRITERIA CRACK PROHIBITION WELD/BASE-METAL FUSION	# OF COMPOSITE STUDS COMMENTS	GRAVITY LOAD DATA: 30.4 psf 7' - 6" LOADS OCCUPANCY OR USE UNIFORM POINT
	1. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS.	CRATER CROSS SECTION WELD PROFILES WELD SIZE	XX K W16X36 (16) C=1" [NOTE] X/SXXX	FLOOR DEAD LOADS - • TYPICAL FLOOR 127 psf
	SHOP DRAWING REVIEW IS INTENDED FOR VERIFICATION OF DESIGN CONCEPT CONVEYANCE AND GENERAL CONFORMANCE TO CONTRACT DOCUMENTS ONLY.	UNDERCUT POROSITY	T.O.S. = 118'-0" TOP OF STEEL ELEVATION	FLOOR LIVE LOADS • CLASSROOMS 40 psf 1000 lbs • CORRIDORS ABOVE FIRST FLOOR 80 psf 1000 lbs
	2. CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DOCUMENTS SHALL BE CLOUDED BY MANUFACTURER/FABRICATOR. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY	4. ARC STRIKESPP5. K-AREA1PP6. BACKING REMOVED AND WELD TABS REMOVED (IFD	END CONNECTION	• CORRIDORS ABOVE FIRST FLOOR 80 psf 1000 lbs • FIRST-FLOOR CORRIDORS 100 psf 1000 lbs • STAIRS AND EXIT WAYS 100 psf 300 lbs
	SUBMITTING PARTIES SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW, UNO.	REQUIRED)PP7. REPAIR ACTIVITIESPP	MOMENT CONNECTION, REFERENCE DETAILS	ROOF DEAD LOADS
	3. SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS SHOWN INCORRECTLY OR OMITTED AND NOT FLAGGED BY THE ENGINEER DURING REVIEW ARE NOT TO BE CONSIDERED CHANGES TO	8. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED P P JOINT OR MEMBER 1 WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR	BEAM SPLICE, REFERENCE DETAILS EMBED PLATE, REFERENCE DETAILS	ROOF LIVE LOADS • ROOF AREAS NOT INTENDED FOR OCCUPANCY 20 psf • ROOF AREAS USED FOR ASSEMBLY PURPOSES 100 psf
	THE CONTRACT DOCUMENTS. 4. THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY.	STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75 MM) OF THE WELD	STEEL BEAM TAGS	ROOF AREAS USED FOR ASSEMBLY PURPOSES 100 psf ROOF AREAS USED FOR OCCUPANTS SAME AS
	DESIGNED SHOP DRAWINGS SHALL BE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER. 5. SHOP DRAWINGS MUST BE ORIGINAL DOCUMENTS. REPRODUCTION OF	AISC TABLE N5.6-1	18 K SP (300/180) JOIST DEPTH (IN.)	OCCUPANCY SERVED OCCUPANCIES SAME AS
	ANY PORTION OF THE CONTRACT DOCUMENTS FOR USE IN SUBMITTALS IS NOT PERMITTED AND MAY RESULT IN REJECTION.	INSPECTION TASKS PRIOR TO BOLTING QC QA 1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR O P	JOIST TYPE TOTAL LOAD (PLF) SPECIAL JOIST TAG	OCCUPANCY SERVED • ROOF FABRIC AWNINGS AND CANOPIES SUPPORTED 5 psf
	6. THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANY TIME BEFORE OR AFTER SHOP DRAWING REVIEW.	FASTENER MATERIALSOI2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTSOO	MATERIAL SPECIFICATIONS	BY A SKELETON STRUCTURE • ROOF SCREEN ENCLOSURE SUPPORT FRAME 5 BASED ON 200 lbs
	7. CONTRACTOR SHALL SUBMIT STRUCTURAL SHOP DRAWINGS FOR THE FOLLOWING: • STRUCTURAL STEEL FRAMING	3. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE O O EXCLUDED FROM SHEAR PLANE)	STEEL MATERIAL SPECIFICATIONS MATERIAL	TRIBUTARY AREA OF ROOF SUPPORTED BY
	STRUCTURAL STEEL FRAMING STEEL JOISTS AND DECKING	4. PROPER BOLTING PROCEDURE SELECTED FOR JOINT O O	WIDE FLANGE SHAPES (W)ASTM A992CHANNELS (C), ANGLES (L)ASTM A36	THE FRAME MEMBER • ROOF: ALL OTHER CONSTRUCTION 20 psf
		5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF O O SPECIFIED, MEET APPLICABLE REQUIREMENTS	PLATES ASTM A36 HOLLOW STRUCTURAL SHAPES (HSS) ASTM A500, GRADE C HEADED ANCHOR STUDS AWS D1.1 TYPE B / ASTM A29	• ROOF: ORDINARY FLAT, PITCHED, AND CURVED 20 psf • VEGETATIVE AND LANDSCAPED ROOFS 100 psf
		6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED P O FOR FASTENER ASSEMBLIES AND METHODS USED	HIGH STRENGTH BOLTSASTM F3125, GRADE A325ANCHOR BOLTS (HEX-HEAD UNO)ASTM F1554 (55 KSI) "S1"	SHEET LIST - STRUCTURAL
		7. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS00	EPOXY ANCHOR RODSASTM A36POWDER-ACTUATED FASTENERSHILTI 0.157" DIA X-U OR SIMPSON 0.157" DIA PDPA	
		AISC TABLE N5.6-2	STEEL DECK, PLAIN STEEL ASTM A1008, (33 ksi) STEEL DECK, GALVANIZED ASTM A653, (33 ksi) NON-SHRINK GROUT, COLUMN BASES 5000 psi (28 DAY STRENGTH)	S200 RTU FRAMING S500 TYPICAL STEEL DETAILS
		INSPECTION TASKS DURING BOLTINGQCQA1. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) AREOO		
		POSITIONED AS REQUIRED2.2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION0		
		3. FASTENER COMPONENT NOT TURNED BY THE WRENCH O O		
		FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARDOO		
		THE FREE EDGES		

AISC TABLE N5.6-3		
INSPECTION TASKS AFTER BOLTING	QC	QA
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	Р	Р
AISC TABLE N6.1		
INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT	QC	QA
1. PLACEMENT AND INSTALLATION OF STEEL DECK	Р	Р
2. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	Р	Ρ
3. DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	Р	Ρ

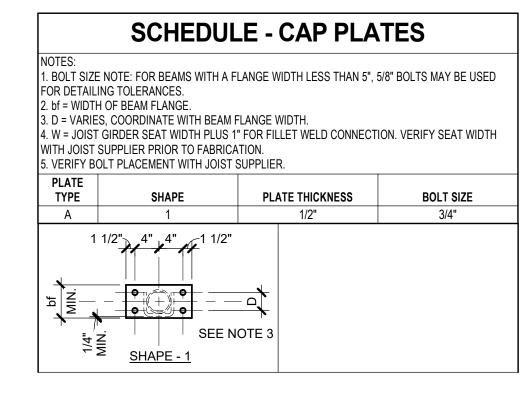


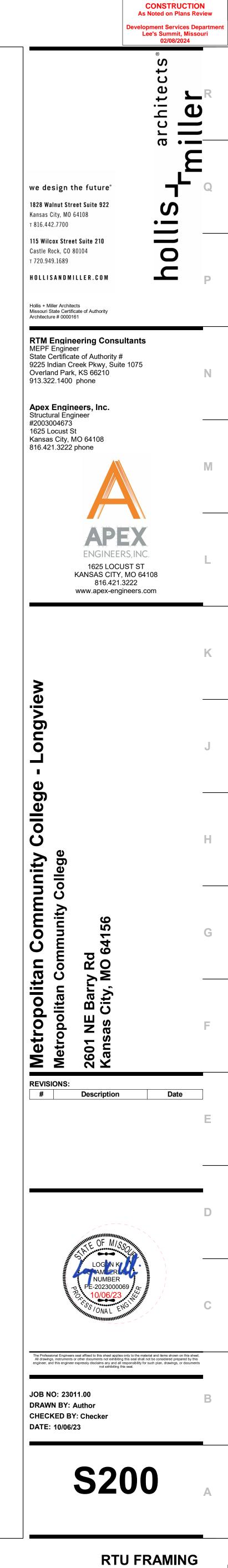


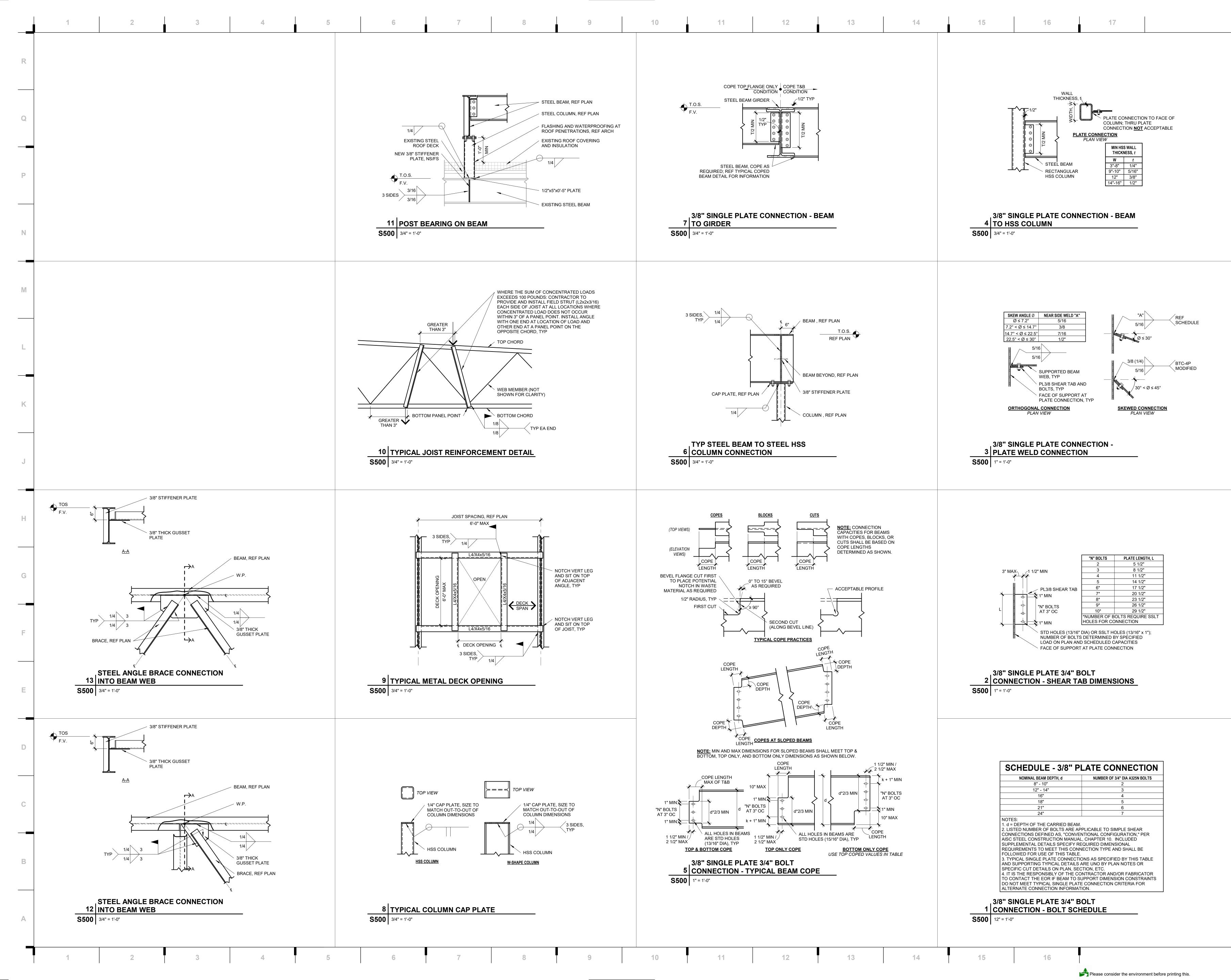
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PLAN NOTES - STEEL ROOF FRAMING

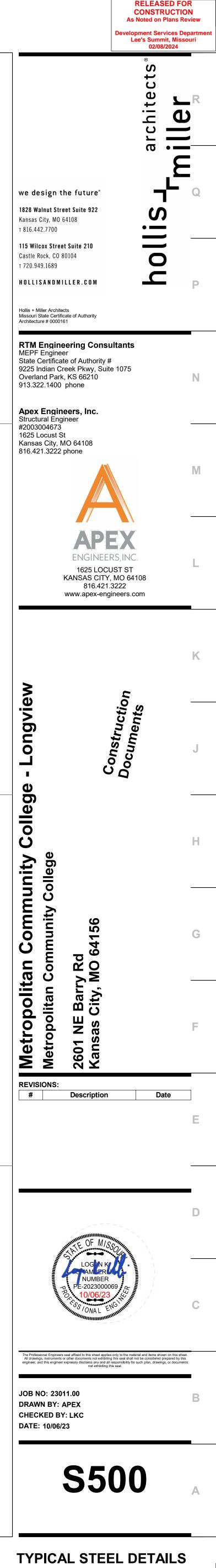
1. FIELD VERIFY TOP OF STEEL ELEVATIONS TO PROVIDE MINIMUM 12" CLEARANCE BETWEEN NEW FRAME AND ROOF MEMBRANE. 2. BEAMS SHALL NOT BE CAMBERED UNLESS INDICATED IN BEAM CALLOUT.





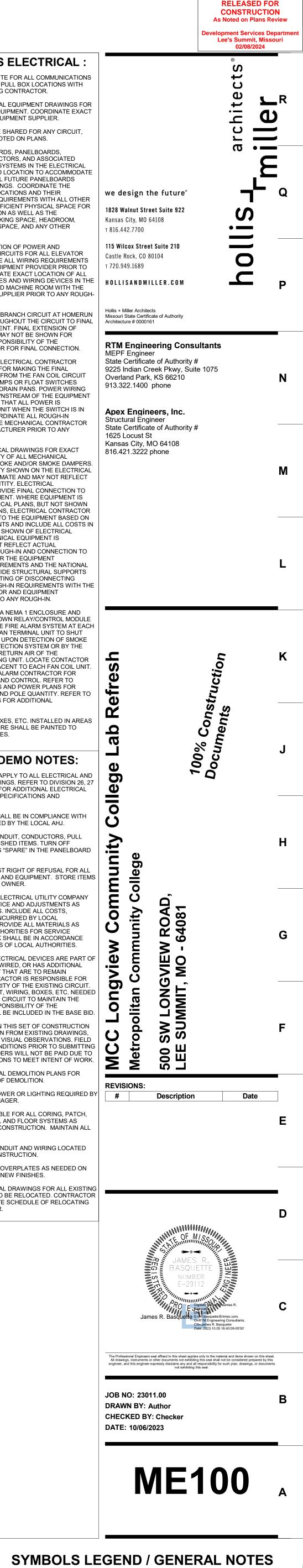


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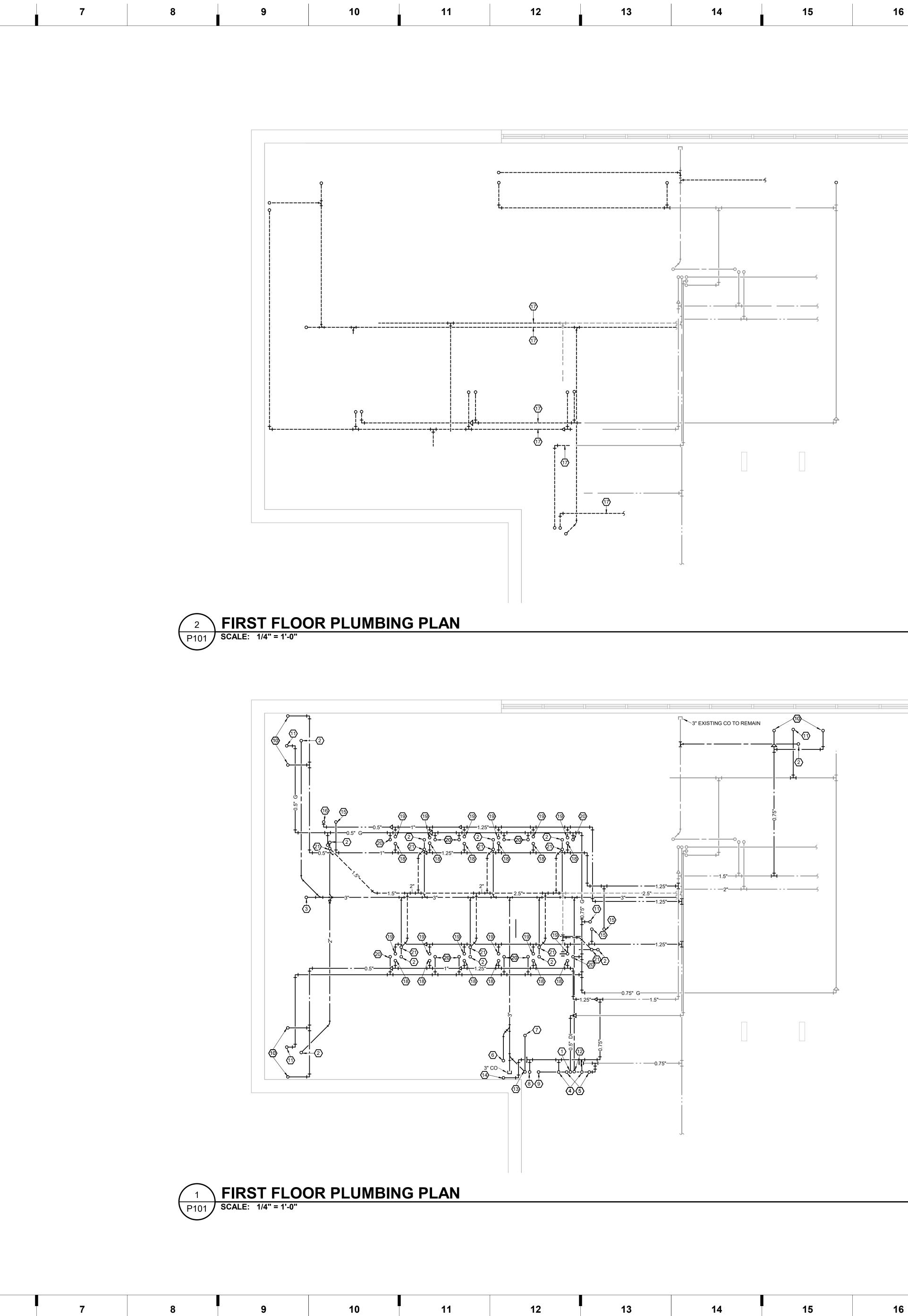


								GENERAL NOTES PLUMBING:	GENERAL NOTES MECHANICAL:	GENERAL NOTES ELECTRICAL:	GENERAL NOTES ELECTRICA
	PLUMBING PIPES:	PIPE PHASI	NG:	LUMINAIRES:	FIRI	E ALARM:		A. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE 20XX EDITION OF THE INTERNATIONAL PLUMBING	A. ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2018 INTERNATIONAL	SPECIAL SYSTEMS DRAWINGS. REFER TO DIVISION 26, 27	AA. COORDINATE EXACT ROUTE FOR ALL COMMUNICA SYSTEM RACEWAYS AND PULL BOX LOCATIONS W
R	DOMESTIC COLD WATER		- IMPROVEMENT - SERVICE AS NOTED ABOVE			FIRE ALARM STROBE - WALL MOUNTED		CODE AS ADOPTED BY THE CITY OF KC, MO. B. FOR ALL MECHANICAL QUESTIONS ON THIS PROJECT,	MECHANICAL CODE AS ADOPTED BY THE CITY OF KC, MO.B. FOR ALL MECHANICAL QUESTIONS ON THIS PROJECT,	AND 28 SPECIFICATIONS FOR ADDITIONAL ELECTRICAL AND SPECIAL SYSTEMS SPECIFICATIONS AND REQUIREMENTS.	THE OWNER AND CABLING CONTRACTOR. BB. REFER TO ARCHITECTURAL EQUIPMENT DRAWING
	DOMESTIC HOT WATER DOMESTIC HOT WATER RECIRCULATION		 IMPROVEMENT - SERVICE AS NOTED ABOVE IMPROVEMENT - SERVICE AS NOTED ABOVE 	"A" RECESSED LIGHT FIXTURE, TYPE (x) ZONE				CONTACT RTM ENGINEERING CONSULTANTS AT (913) 322-1400. CONTACT: KEITH HAMMERSCHMIDT.	CONTACT RTM ENGINEERING CONSULTANTS AT (913) 322-1400. CONTACT: KEITH HAMMERSCHMIDT.	B. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRIC CODE AND AS ADOPTED	EXACT LOCATIONS OF EQUIPMENT. COORDINATE I REQUIREMENTS WITH EQUIPMENT SUPPLIER.
			- IMPROVEMENT - SERVICE AS NOTED ABOVE	"A" LIGHT FIXTURE, TYPE & CONTR (X) EMERGENCY	_ 20NE -	FIRE HORN AND STROBE - WALL MOUNTED		C. CONTRACTOR SHALL SECURE AND PAY FOR NECESSARY MEP PERMITS AND CERTIFICATES OF INSPECTION REQUIRED BY GOVERNMENTAL ORDINANCES, LAWS,	C. CONTRACTOR SHALL SECURE AND PAY FOR NECESSARY MEP PERMITS AND CERTIFICATES OF INSPECTION REQUIRED BY GOVERNMENTAL ORDINANCES, LAWS,	BY THE LOCAL AHJ. C. FOR ALL ELECTRICAL QUESTIONS ON THIS PROJECT,	CC. NEUTRALS SHALL NOT BE SHARED FOR ANY CIRCU UNLESS SPECIFICALLY NOTED ON PLANS.
	—		 IMPROVEMENT - SERVICE AS NOTED ABOVE IMPROVEMENT - SERVICE AS NOTED ABOVE 	HORIZONTAL LINE IN SYMBOL INDICATES ORI OF CENTER "BASKET" IN ARCHITECTURAL F WHERE APPLICABLE.		C S FIRE SPEAKER - CEILING MOUNTED		RULES, OR REGULATIONS.	RULES, OR REGULATIONS.D. FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO THE	CONTACT RTM ENGINEERING CONSULTANTS AT (913) 322-1400. CONTACT: COLLIN TRETTER.	DD. INSTALL ALL SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, CONTACTORS, AND ASSOCIATED CONDUIT AND SUPPORT SYSTEMS IN THE ELECTRI
	DWDOMESTIC CHILLED DRINKING WATER		 IMPROVEMENT - SERVICE AS NOTED ABOVE 	O "A" RECESSED ROUND CAN LIGHT	XTURE AND	FIRE SPEAKER - WALL MOUNTED FIRE SPEAKER AND STROBE - WALL MOUNTED		CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS, AND APPLIANCES OPERATE SATISFACTORILY AS	CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS, AND APPLIANCES OPERATE SATISFACTORILY AS	MEP PERMITS AND CERTIFICATES OF INSPECTION	ROOMS IN A MANNER AND LOCATION TO ACCOMM THE INSTALLATION OF ALL FUTURE PANELBOARDS
Q			EXISTING - SERVICE AS NOTED ABOVE	O "A" SUSPENDED ROUND LIGHT FIX		C I FIRE SPEAKER AND STROBE - CEILING MOUNTED		DESIGNED AND INTENDED; WORK SHALL INCLUDE REQUIRED REPLACEMENT, ADJUSTMENT OF SYSTEMS AND CONTROL EQUIPMENT AND ALL REQUIRED	DESIGNED AND INTENDED; WORK SHALL INCLUDE REQUIRED REPLACEMENT, ADJUSTMENT OF SYSTEMS AND CONTROL EQUIPMENT AND ALL REQUIRED	REQUIRED BY GOVERNMENTAL ORDINANCES, LAWS, RULES, OR REGULATIONS.	INDICATED IN THE DRAWINGS. COORDINATE THE FUTURE PANELBOARD LOCATIONS AND THEIR ASSOCIATED FUTURE REQUIREMENTS WITH ALL C
	WASTE PIPING - ABOVE FLOOR		 EXISTING - SERVICE AS NOTED ABOVE EXISTING - SERVICE AS NOTED ABOVE 		AND TYPE	AS REQUIRED BY THE LATEST EDITION OF NFPA 72. COORDINATE WITH EQUIPMENT MANUFACTURER BASED ON		PROGRAMMING INSTALLED. PROVIDE FOR ALL WORK INDICATED ON DRAWINGS OR AS REASONABLY IMPLIED.	PROGRAMMING INSTALLED. PROVIDE FOR ALL WORK INDICATED ON DRAWINGS OR AS REASONABLY IMPLIED.	E. FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO THE CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS, AND APPLIANCES OPERATE	DIVISIONS. MAINTAIN SUFFICIENT PHYSICAL SPACE THE FUTURE INSTALLATION AS WELL AS THE NECESSARY CLEAR WORKING SPACE, HEADROOM
			- EXISTING - SERVICE AS NOTED ABOVE	"A" SURFACE MOUNTED LINEAR LI		ACTUAL PROVIDED EQUIPMENT. FACP FIRE ALARM CONTROL PANEL		E. TEST ALL LINES, SYSTEMS, EQUIPMENT BEFORE THEY ARE INSULATED, PAINTED, OR CONCEALED BY CONSTRUCTION OR BACKFILLING, PROVIDE FUEL, WATER,	E. TEST ALL LINES, SYSTEMS, EQUIPMENT BEFORE THEY ARE INSULATED, PAINTED, OR CONCEALED BY CONSTRUCTION OR BACKFILLING. PROVIDE FUEL, WATER.	SATISFACTORILY AS DESIGNED AND INTENDED; WORK SHALL INCLUDE REQUIRED REPLACEMENT, ADJUSTMENT OF SYSTEMS AND CONTROL EQUIPMENT AND ALL	DEDICATED EQUIPMENT SPACE, AND ANY OTHER REQUIRED CLEARANCES.
	ROOF DRAIN - BELOW FLOOR		 EXISTING - SERVICE AS NOTED ABOVE EXISTING - SERVICE AS NOTED ABOVE 	CEILING AND WALL MOUNTED E -ARROW INDICATES CHEVRO	IT LIGHT AND TYPE	FAA FIRE ALARM ANNUNCIATOR PANEL		ELECTRICITY, MATERIALS, LABOR, AND EQUIPMENT REQUIRED FOR TESTS. REPAIR OR REPLACE DEFECTS,	ELECTRICITY, MATERIALS, LABOR, AND EQUIPMENT REQUIRED FOR TESTS. REPAIR OR REPLACE DEFECTS,	REQUIRED PROGRAMMING INSTALLED. PROVIDE FOR ALL WORK INDICATED ON DRAWINGS OR AS REASONABLY	EE. PROVIDE FINAL CONNECTION OF POWER AND ASSOCIATED CONTROL CIRCUITS FOR ALL ELEVAT
	-AW ACID WASTE - BELOW FLOOR		 EXISTING - SERVICE AS NOTED ABOVE 	-FILLED SEGMENT INDICATE	FACE DIRECTION(S)	CO CARBON DIOXIDE SENSOR		LEAKS, AND MATERIALS FAILURES REVEALED BY TESTS AND THEN RETESTED UNTIL SATISFACTORY. MAKE REPAIRS WITH NEW MATERIALS.	LEAKS, AND MATERIALS FAILURES REVEALED BY TESTS AND THEN RETESTED UNTIL SATISFACTORY. MAKE REPAIRS WITH NEW MATERIALS.	IMPLIED. F. TEST ALL LINES, SYSTEMS, EQUIPMENT BEFORE THEY	EQUIPMENT. COORDINATE ALL WIRING REQUIREM WITH THE ELEVATOR EQUIPMENT PROVIDER PRIO ANY ROUGH-IN. COORDINATE EXACT LOCATION OF
Р			- DEMOLISHED - SERVICE AS NOTED ABOVE	* "X" CEILING MOUNTED COMBINATIO EMERGENCY LIGHT AND TYPE	I EXIT /	S CEILING SMOKE DETECTOR		F. PROVIDE NECESSARY MATERIALS AND ACCESSORIES FOR INSTALLATION OF FIXTURES, EQUIPMENT, ETC AS	F. PROVIDE NECESSARY MATERIALS AND ACCESSORIES FOR INSTALLATION OF FIXTURES, EQUIPMENT, ETC AS	ARE INSULATED, PAINTED, OR CONCEALED BY CONSTRUCTION OR BACKFILLING. PROVIDE FUEL, WATER. ELECTRICITY. MATERIALS, LABOR, AND	EQUIPMENT, RECEPTACLES AND WIRING DEVICES ELEVATOR SHAFT, PIT AND MACHINE ROOM WITH ELEVATOR EQUIPMENT SUPPLIER PRIOR TO ANY F
	GREASE WASTE - BELOW FLOOR		FUTURE - SERVICE AS NOTED ABOVE	WALL MOUNTED COMBINATION EMERGENCY LIGHT AND TYPE	XIT /	THERMAL DETECTOR (HEAT)		REQUIRED FOR COMPLETE AND FUNCTIONAL OPERATION AS NOTED ON DRAWINGS OR IN NOTES.	REQUIRED FOR COMPLETE AND FUNCTIONAL OPERATION AS NOTED ON DRAWINGS OR IN NOTES.	EQUIPMENT REQUIRED FOR TESTS. REPAIR OR REPLACE DEFECTS, AND MATERIALS FAILURES REVEALED BY	IN.
	AV ACID VENT PIPING	PLUMBING	FIXTURES:	(x) DESIGNATION OF CONTROL ZO DESIGNATION IS ASSOCIATED		DH ELECTRIC DOOR HOLDER → FIREMAN'S TELEPHONE OUTLET		G. ACCESS PANELS SHALL BE PROVIDED WHEREVER NECESSARY TO PROVIDE ACCESS TO VALVES, JUNCTION	G. ACCESS PANELS SHALL BE PROVIDED WHEREVER NECESSARY TO PROVIDE ACCESS TO VALVES, JUNCTION	TESTS AND THEN RETESTED UNTIL SATISFACTORY. MAKE REPAIRS WITH NEW MATERIALS.	FF. WIRE SIZE INDICATED BY BRANCH CIRCUIT AT HOM SHALL BE CARRIED THROUGHOUT THE CIRCUIT TO CONNECTION AT EQUIPMENT. FINAL EXTENSION O
	CA-CA-COMPRESSED AIR	\boxtimes	PLUMBING FIXTURE PLAN MARK TAG (REFERENCE PLUMBING FIXTURE SCHEDULE)			FV		BOXES, ETC., LOCATED IN CONCEALED SPACES. H. ALL EQUIPMENT, FIXTURES, MATERIALS, ETC SHALL BE	BOXES, ETC., LOCATED IN CONCEALED SPACES. PROVIDE ACCESS DOOR FOR ALL FIRE DAMPERS AS REQUIRED FOR SERVICE.	G. PROVIDE NECESSARY MATERIALS AND ACCESSORIES FOR INSTALLATION OF FIXTURES, EQUIPMENT, ETC AS REQUIRED FOR COMPLETE AND FUNCTIONAL OPERATION	CIRCUIT TO EQUIPMENT MAY NOT BE SHOWN FOR CLARITY BUT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR FOR FINAL CONNECTION
	DI DEIONIZED WATER	ری ا	FLUSH TANK WATER CLOSET FLOOR MOUNT FLUSH VALVE WATER CLOSET	RACEWAYS:		COMMUNICATIONS:		INSTALLED IN NEAT, PROFESSIONAL MANNER IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS	H. ALL EQUIPMENT, FIXTURES, MATERIALS, ETC SHALL BE INSTALLED IN NEAT, PROFESSIONAL MANNER IN	AS NOTED ON DRAWINGS OR IN NOTES. H. ACCESS PANELS SHALL BE PROVIDED WHEREVER	GG. AT ALL FAN COIL UNITS, ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE FINAL
N	FIRE PROTECTION PIPES:	Ω (WALL MOUNT FLUSH VALVE WATER CLOSET			 **TELEPHONE OUTLET - NUMBER INDICATES QTY OF CABLE AND JACK OUTLETS. WHERE NO NUMBER IS INDICATED, ONE CABLE AND 		I. THE CONTRACTOR SHALL CONTACT THE OWNER AND	ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.	NECESSARY TO PROVIDE ACCESS TO VALVES, JUNCTION BOXES, ETC., LOCATED IN CONCEALED SPACES.	CONNECTION OF POWER FROM THE FAN COIL CIRC TO ANY CONDENSATE PUMPS OR FLOAT SWITCHE
	FIRE SERVICE FIRE PROTECTION STANDPIPE		URINAL	CONDUIT OR CIRCUIT CONCEA	D IN FLOOR SLAB	JACK OUTLET IS STANDARD.		COORDINATE ALL OUTAGES 5 DAYS PRIOR TO ANY SHUT- OFF OF SERVICES.	I. THE CONTRACTOR SHALL CONTACT THE OWNER AND COORDINATE ALL OUTAGES 5 DAYS PRIOR TO ANY SHUT-	I. ALL EQUIPMENT, FIXTURES, MATERIALS, ETC SHALL BE INSTALLED IN NEAT, PROFESSIONAL MANNER IN	INSTALLED IN AUXILIARY DRAIN PANS. POWER WIR SHOULD BE TAPPED DOWNSTREAM OF THE EQUIP DISCONNECT SWITCH SO THAT ALL POWER IS
	F		WALL MOUNTED LAVATORY	EXPOSED METAL RACEWAY - V	REMOLD	3/2 NUMBERS INDICATES QTY OF CABLE AND JACK OUTLETS FOR DATA/TELEPHONE.		J. PROVIDE ALL FIRE RATED MATERIAL FOR PATCH AND REPAIR FOR ALL FIRE RATED ASSEMBLIES. ALL OPENINGS SHALL BE SEALED AND CLOSED IN APPROVED	OFF OF SERVICES. J. PROVIDE ALL FIRE RATED MATERIAL FOR PATCH AND	ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.	DISCONNECTED AT THE UNIT WHEN THE SWITCH I THE 'OFF' POSITION. COORDINATE ALL ROUGH-IN REQUIREMENTS WITH THE MECHANICAL CONTRAC
	FD FIRE SPRINKLER - DRY FIRE SPRINKLER - PREACTION		SINGLE BOWL SINK	HOME RUN - LINES INDICATE N WIRES, ARROWS INDICATE NU	IBER OF BER OF	WHERE NO NUMBER IS INDICATED, TWO CABLES AND JACK OUTLETS IS STANDARD.		MANNER. PROVIDE SLEEVE WHERE NEEDED DUE TO SCOPE OF WORK.	REPAIR FOR ALL FIRE RATED ASSEMBLIES. ALL OPENINGS SHALL BE SEALED AND CLOSED IN APPROVED MANNER. PROVIDE SLEEVE WHERE NEEDED DUE TO	J. THE CONTRACTOR SHALL CONTACT THE OWNER AND COORDINATE ALL OUTAGES 5 DAYS PRIOR TO ANY SHUT- OFF OF SERVICES.	AND EQUIPMENT MANUFACTURER PRIOR TO ANY ROUGH-IN.
	FG		DOUBLE BOWL SINK			> 3 **DATA OUTLET - NUMBER INDICATES QTY OF CABLE AND JACK OUTLETS. WHERE NO NUMBER IS INDICATED, ONE CABLE AND JACK		K. EXISTING CONDITIONS ON THIS SET OF BID DOCUMENTS WERE TAKEN FROM EXISTING DRAWINGS, LIMITED SITE	SCOPE OF WORK.	K. PROVIDE ALL FIRE RATED MATERIAL FOR PATCH AND	HH. REFER TO THE MECHANICAL DRAWINGS FOR EXAC LOCATIONS AND QUANTITY OF ALL MECHANICAL
Μ	MEDICAL GAS PIPES:		TRIPLE BOWL SINK			OUTLET IS STANDARD.		VISITS, AND VISUAL OBSERVATIONS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CHANGE ORDERS WILL NOT BE PAID DUE TO	K. EXISTING CONDITIONS ON THIS SET OF BID DOCUMENTS WERE TAKEN FROM EXISTING DRAWINGS, LIMITED SITE VISITS, AND VISUAL OBSERVATIONS. FIELD VERIFY ALL	REPAIR FOR ALL FIRE RATED ASSEMBLIES. ALL OPENINGS SHALL BE SEALED AND CLOSED IN APPROVED MANNER. PROVIDE SLEEVE WHERE NEEDED DUE TO	EQUIPMENT AND FIRE/SMOKE AND/OR SMOKE DAM LOCATIONS AND QUANTITY SHOWN ON THE ELECT DRAWINGS ARE APPROXIMATE AND MAY NOT REF
	MEDICAL VACUUM PIPING MEDICAL OXYGEN PIPING		BATHTUB	POWER EQUIPMENT:		WAP		UNANTICIPATED CONDITIONS TO MEET INTENT OF WORK.	EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CHANGE ORDERS WILL NOT BE PAID DUE TO UNANTICIPATED CONDITIONS TO MEET INTENT OF WORK.	SCOPE OF WORK.	FINAL POSITION OR QUANTITY. ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL CONNECTION ALL MECHANICAL EQUIPMENT. WHERE EQUIPMEN
			SHOWER	LIGHTING AND APPLIANCE PAN DISTRIBUTION. FEEDER OR PO		TVH **TELEVISION OUTLET - WALL MOUNT		WORK WITH REGARD TO THE OWNER'S USE OF THE BUILDING.	L. CONTRACTOR SHALL SCHEDULE AND EXECUTE ALL	CONDITIONS PRIOR TO SUBMITTING BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING	SHOWN ON THE MECHANICAL PLANS, BUT NOT SH ON THE ELECTRICAL PLANS, ELECTRICAL CONTRA
			SHOWER HEADS		ER PANEL	GANG PLASTER RING AND 0.75" CONDUIT WITH 90 DEGREE SWEEP ABOVE CEILING WITH DE-BURRED END		M. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.	WORK WITH REGARD TO THE OWNER'S USE OF THE BUILDING.	CONDITIONS. M. THE CONTRACTOR SHALL SCHEDULE AND EXECUTE ALL	SHALL PROVIDE POWER TO THE EQUIPMENT BASE EQUIPMENT REQUIREMENTS AND INCLUDE ALL CO THE BASE BID. LOCATION SHOWN OF ELECTRICAL
	A MEDICAL AIR PIPING MEDICAL WAGD PIPING	r PP	DRINKING FOUNTAIN			TELEPHONE TERMINAL CABINET ("TTC")		N. ALL WASTE AND VENT PIPING SERVING LABORATORY SINKS SHALL BE ACID WASTE AND VENT PIPING FROM	M. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.	WORK WITH REGARD TO THE OWNER'S USE OF THE BUILDING.	CONNECTION TO MECHANICAL EQUIPMENT IS SCHEMATIC AND MAY NOT REFLECT ACTUAL CONNECTION POINTS. ROUGH-IN AND CONNECTIO
L	HVAC PIPES:		OR ELECTRIC WATER COOLER					SINK TO INLET OF NEUTRALIZATION BASIN.	N. ALL METAL DUCTWORK SPECIFIED TO RECEIVE INTERIOR THERMAL AND ACOUSTICAL LINER IS NOT SIZED ON DI ANS TO INCLUDE THE DRODER THICKNESS OF	N. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.	EQUIPMENT SHALL BE PER THE EQUIPMENT MANUFACTURER'S REQUIREMENTS AND THE NATION
	CWS CHILLED WATER SUPPLY CHILLED WATER RETURN		EMERGENCY EYEWASH	EQUIPMENT PAD WHERE FLOO		MASTER CLOCK ACU INTERCOM ADMINISTRATIVE CONTROL UNIT	-	GENERAL DEMOLITION NOTES:	PLANS TO INCLUDE THE PROPER THICKNESS OF INSULATION. ADD 1" OR 2" IN HEIGHT AND WIDTH OF DUCTWORK TO ACCOMMODATE THICKNESS OF INSULATION	a. REFER TO ARCHITECTURAL DRAWINGS FOR	ELECTRICAL CODE. PROVIDE STRUCTURAL SUPPO AS REQUIRED FOR MOUNTING OF DISCONNECTING MEANS. VERIFY ALL ROUGH-IN REQUIREMENTS WI
	CHSCHILLED / HOT WATER SUPPLY	\overline{O}	EMERGENCY EYEWASH & SHOWER			MA MUSIC SYSTEM AMP		A. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL DEMOLISHED MATERIALS AND EQUIPMENT. STORE ITEMS	INSULATION.BRANCH DUCTS SHALL BE THE SAME SIZE AS DIFFUSER	TYPICAL ROOM INTERIOR ELEVATIONS. COORDINATE EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO	MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ANY ROUGH-IN.
			EMERGENCY SHOWER	WIRING DEVICES AND OUT	ETS:	PA PAGING SYSTEM AMP ☑ WALL SPEAKER		ON SITE AS DIRECTED BY OWNER.	NECK UNLESS NOTED OTHERWISE.P. PROVIDE TURNING VANES IN ALL RECTANGULAR MITERED	ROUGH-IN. b. COORDINATE ALL WIRING DEVICE LOCATIONS SHOWN AT MILLWORK LOCATIONS WITH THE	II. PROVIDE CONTACTOR IN A NEMA 1 ENCLOSURE AI FIRE ALARM FAN SHUT DOWN RELAY/CONTROL MO AND INTERLOCK WITH THE FIRE ALARM SYSTEM A
	CONDENSER WATER SUPPLY CONDENSER WATER RETURN	\bowtie		REFER TO SPECIFICATION SECTION AND BOXES FOR INSTALLATION	EIGHTS AND	COMBINATION CLOCK SPEAKER		B. EXISTING CONDITIONS ON THIS SET OF BID DOCUMENTS WERE TAKEN FROM EXISTING DRAWINGS, LIMITED SITE VISITS, AND VISUAL OBSERVATIONS. FIELD VERIFY ALL	ELBOWS. Q. THERMOSTATS AND CONTROL WIRING SHALL BE	MILLWORK CONTRACTOR AND GENERAL CONTRACTOR PRIOR TO ANY ROUGH-IN OR INSTALLATION. ALL WIRING DEVICES SHALL BE	FAN-POWERED BOX OR FAN TERMINAL UNIT TO SH OFF POWER TO THE UNIT UPON DETECTION OF SM BY THE AREA SMOKE DETECTION SYSTEM OR BY T
к			ROUGH-IN BOX (LAUNDRY OR CONDENSATE DRA ROUGH-IN BOX (ICE-MAKER)		-	© CEILING SPEAKER		EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CHANGE ORDERS WILL NOT BE PAID DUE TO UNANTICIPATED CONDITIONS TO MEET INTENT OF WORK.	SUPPLIED BY THE HVAC CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL THE	INSTALLATION. ALL WIRING DEVICES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS AND SHALL NOT BE CONCEALED.	DUCT DETECTOR IN THE RETURN AIR OF THE ASSOCIATED AIR HANDLING UNIT. LOCATE CONTAG
		-+	HOSE BIBB	\$ 20 AMP, SINGLE POLE, 120 \$ 3 THREE-WAY 120/277 VOLT		✓ COLUMN SPEAKER✓ HORN TYPE SPEAKER		C. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR	NECESSARY CONDUIT, BOXES, ETC. FOR THE ISTALLATION OF THERMOSTATS. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE NSTALLATION AND	O. PROVIDE PULL BOXES AS REQUIRED TO PROPERLY INSTALL THE RACEWAYS AND CIRCUITS INDICATED.	ABOVE THE CEILING ADJACENT TO EACH FAN COIL COORDINATE WITH FIRE ALARM CONTRACTOR FOI PROPER COIL VOLTAGE AND CONTROL. REFER TO
	HTWR $$ HIGH TEMPERATURE WATER RETURN	£	WALL HYDRANT	\$ 4 FOUR-WAY 120/277 VOLT S		MICROPHONE OUTLET - WALL		PHASING AND EXTENTS OF DEMOLITION.D. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING,	CONNECTION OF THERMOSTATS. R. NEW PIPING AND DUCTWORK SHALL NOT BE ROUTED	P. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH ROT- PROOF PULL-TAPE. LABELED AT EACH END. ALL	MECHANICAL SCHEDULES AND POWER PLANS FOR CONTACTOR AMPACITY AND POLE QUANTITY. REF SPECIAL SYSTEMS PLANS FOR ADDITIONAL
	HPS HEAT PUMP SUPPLY			\$ _P 120/277 VOLT SWITCH WIT \$ _K KEYED 120/277 VOLT SWIT		M MICROPHONE OUTLET - FLOOR A LOCAL AMPLIFIER		PATCH, AND REPAIR OF ALL WALL AND FLOOR SYSTEMS AS REQUIRED DUE TO CONSTRUCTION WORK. MAINTAIN ALL FIRE RATINGS.	OVER EXISTING AND NEW ELECTRICAL PANELS.	CONDUITS SHALL BE PROVIDED WITH PLASTIC BUSHINGS WHERE TERMINATED OPEN-ENDED.	COORDINATION.
		X X"	DRAINAGE PIPE SPECIALTY TAG X DENOTES PLAN MARK x" DENOTES INLET PIPE SIZE	\$ WP WEATHERPROOF 120/277		V REMOTE VOLUME CONTROL		E. REMOVE ALL UNUSED PIPING LOCATED WITHIN THE AREA OF CONSTRUCTION. CAP BRANCH PIPING REMOVED	S. ALL ROOF WORK SHALL BE IN ACCORDANCE WITH ARCHITECTURAL REQUIREMENTS SO THAT ROOF WARRANTY IS NOT VOIDED.	Q. SEAL ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES AS NECESSARY TO RESTORE FIRE-	JJ. SUPPORTS, CONDUIT, BOXES, ETC. INSTALLED IN A WITH EXPOSED STRUCTURE SHALL BE PAINTED TO MATCH ADJACENT FINISHES.
J	LP STEAM - LOW PRESSURE CONDENSATE RETUR	٩	(REFERENCE DRAINAGE PIPE SPECIALTY SCHEDULE) FLUSH FLOOR CLEANOUT	\$ 2 DOUBLE POLE, 120/277 VC \$ 0 120/277 VOLT DIMMER SW		© CALL-IN STATION		NEAR MAIN. FOR DOMESTIC WATER PIPING PROVIDE SHUTOFF VALVE AT TAP AND CAP.	T. ALL EQUIPMENT SHALL BE INSTALLED TO ALLOW FULL MAINTENANCE ACCESS PER MANUFACTURER'S	RESISTANCE RATING OF ASSEMBLY. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR RATED ASSEMBLIES, FIRE STOPPING MATERIALS, AND	
	MP STEAM - MEDIUM PRESSURE SUPPLY		FLUSH GRADE CLEANOUT	\$ MOMENTARY CONTACT 12		CABLE TRAY	L		RECOMMENDATIONS.	REQUIREMENTS. R. EACH CONTRACTOR AND SUB-CONTRACTOR OR TRADE	GENERAL ELEC. DEMO NOTES A. THESE GENERAL NOTES APPLY TO ALL ELECTRICA
		ના	FINISH WALL CLEANOUT	\$ _{HOA} HAND-OFF-AUTO SELECTO		ELECTRICAL NOTATIONS:			AND OUTSIDE AIR BRANCH DUCTS TO OUTLETS, WHETHER INDICATED IN PLANS OR NOT.	SHALL REVIEW THE BID DOCUMENTS AS A WHOLE, INCLUDING ALL OTHER TRADES' DRAWINGS AND	SPECIAL SYSTEMS DRAWINGS. REFER TO DIVISION AND 28 SPECIFICATIONS FOR ADDITIONAL ELECTR
		N (Ú) Ø	ROOF DRAIN FLOOR DRAIN	\$ _{TO} MANUAL STARTER WITH T \$ _{OT} 120/277 VOLT SPRING WO		AC THESE LETTERS ADJACENT TO ANY SYMBOL INDICATE DEVICE BOTTOM TO BE 4" ABOVE			V. INSULATE AND SEAL ALL CAPPED DUCTS WHERE NOTED.	PROVIDE ANY MISC. ITEMS, MATERIALS, WORK, ETC. REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL BID DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL	AND SPECIAL SYSTEMS SPECIFICATIONS AND REQUIREMENTS.
	FW		FLOOR SINK	\$ _{ET} 120/277 VOLT ELECTRIC T	ER SWITCH				W. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSITIONS TO ALL EQUIPMENT OPENING SIZES.	TRADES. STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, EQUIPMENT VENDORS, ETC. REQUIREMENTS AND RELATED WORK ARE INDICATED THROUGHOUT THE	B. AL ELECTRICAL WORK SHALL BE IN COMPLIANCE V THE 2017 NEC AS ADOPTED BY THE LOCAL AHJ.
н	D CONDENSATE (DRAIN) PIPING		FLOOR TROUGH / TRENCH DRAIN	\$ N 120/277 VOLT NARROW SV \$ LOW VOLTAGE SWITCH - F		IG THESE LETTERS ADJACENT TO ANY SYMBOL INDICATE ISOLATED GROUND DEVICE			X. MECHANICAL CONTRACTOR SHALL REMOVE AND REPLACE CEILING TILES IN ALL EXISTING AREAS WITH NEW DUCT AND IS RESPONSIBLE FOR REPLACING TILES IF	BID DOCUMENTS AND SHALL BE REVIEWED WITH THE SPECIFIC MEP, STRUCTURAL, ARCHITECTURAL, AND EQUIPMENT DRAWINGS FOR OVERALL SCOPE OF WORK.	C. REMOVE ALL UNUSED CONDUIT, CONDUCTORS, PU BOXES, ETC. FOR DEMOLISHED ITEMS. TURN OFF BREAKERS AND LABEL AS "SPARE" IN THE PANELB
	REFRIGERANT LIQUID REFRIGERANT SUCTION					SS THESE LETTERS ADJACENT TO ANY SYMBOL INDICATE SURGE SUPPRESSION DEVICE			DAMAGED DURING CONSTRUCTION.	S. ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL	DIRECTORY.
		\]	- BRANCH DUCT WITH BELLMOUTH SPIN-IN FITTIN	V1 / O1 WALL MOUNT VACANCY S TYPE IG		TR THESE LETTERS ADJACENT TO ANY SYMBOL INDICATE TAMPER RESISTANT DEVICE			Y. REFER TO ARCHITECTURAL PLANS FOR ANY ADDITIONAL CONSTRUCTION PHASING REQUIREMENTS.	CONNECTION TO ALL MECHANICAL EQUIPMENT. WHERE EQUIPMENT IS SHOWN ON THE MECHANICAL PLANS, BUT NOT SHOWN ON THE ELECTRICAL PLANS, ELECTRICAL	D. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FO DEMOLISHED MATERIALS AND EQUIPMENT. STORE ON SITE AS DIRECTED BY OWNER.
	RDBREFRIGERANT DISCHARGE (BYPASS)	一民	BRANCH DUCT WITH HIGH EFFICIENCY TAKE-OF	WALL MOUNT VACANCY WALL MOUNT VACANCY WALL MOUNT VACANCY		WP THESE LETTERS ADJACENT TO ANY SYMBOL INDICATE WEATHER-PROOF ENCLOSURE			Z. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TEMPORARY EQUIPMENT REQUIRED FOR DUST CONTROL AND TEMPORARY EXHAUST. COORDINATE	CONTRACTOR SHALL PROVIDE POWER TO THE EQUIPMENT BASED ON EQUIPMENT REQUIREMENTS AND INCLUDE ALL COSTS IN THE BASE BID.	E. COORDINATE WITH THE ELECTRICAL UTILITY COMP AND ARRANGE FOR SERVICE AND ADJUSTMENTS A
		□ _ ∄	_	RC1 ROOM CONTROL DEVICE F	R DISTRIBUTED	WPI THESE LETTERS ADJACENT TO ANY SYMBOL INDICATE WEATHER-PROOF IN-USE ENCLOSURE			REQUIREMENTS WITH OWNER. AA. ALL PENETRATIONS THROUGH THE WALLS, FLOORS, OR	a. LOCATION SHOWN OF ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT IS SCHEMATIC AND MAY NOT REFLECT ACTUAL	INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEEDS, ETC. INCURRED BY LOCAL AUTHORITIES INTO BID. PROVIDE ALL MATERIALS A
G	PIPE FITTINGS AND VALVES:		EQUIPMENT WITH FLEXIBLE DUCT CONNECTION ELBOW WITH TURNING VANES	PP1 POWER PACK FOR LIGHTI	CONTROLS	XP THESE LETTERS ADJACENT TO ANY SYMBOL INDICATE EXPLOSION-PROOF ENCLOSURE			STRUCTURE OF LABORATORY AREAS, LABORATORY SUPPORT AREAS, AND CORRIDORS SHALL BE SEALED	CONNECTION POINTS. ROUGH-IN AND CONNECTION TO EQUIPMENT SHALL BE PER THE	REQUIRED BY LOCAL AUTHORITIES FOR SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDAN
	SHUT-OFF VALVE (BALL OR GATE AS SPECIFIED		RETURN, EXHAUST OR FRESH AIR DUCT UP	SWITCHED RECEPTACLE, SWITCHED, NEMA TYPE A		60" DIMENSIONS ADJACENT TO ANY SYMBOL INDICATE MOUNTING HEIGHT TO CENTER OF			AIRTIGHT TO MAINTAIN PROPER PRESSURE RELATIONSHIPS.	EQUIPMENT MANUFACTURER'S REQUIREMENTS AND THE NATIONAL ELECTRICAL CODE. PROVIDE STRUCTURAL SUPPORTS AS	F. WHERE DEMOLISHED ELECTRICAL DEVICES ARE P
			RETURN, EXHAUST OR FRESH AIR DUCT DOWN	SIMPLEX, 20 A, 125 V, 2 P, RECEPTACLE - NEMA 5-20	W, GROUNDING	(TIE) INDICATES HOMERUNS WITH SAME CIRCUIT			BB. ALL LAB EXHAUST DUCT SHALL BE 316 STAINLESS STEEL WITH ONE SEAM WELDED ON TOP SIDE. REFER TO SPECIFICATIONS. DUCTWORK NOTED ON PLANS AS LAB	REQUIRED FOR MOUNTING OF DISCONNECTING MEANS. VERIFY ALL ROUGH-IN REQUIREMENTS WITH THE MECHANICAL CONTRACTOR AND	A CIRCUIT THAT IS THRU-WIRED, OR HAS ADDITION DEVICES ON THE CIRCUIT THAT ARE TO REMAIN UNCHANGED, THE CONTRACTOR IS RESPONSIBLE
	BALANCING VALVE WITH PRESSURE PORTS TRIPLE DUTY VALVE WITH PRESSURE PORTS		SUPPLY AIR DUCT UP SUPPLY AIR DUCT DOWN	CEILING MOUNTED DUPLE W, GROUNDING RECEPTA		NUMBER TO BE WIRED TOGETHER ON SAME CIRCUIT.			EXHAUST.	EQUIPMENT MANUFACTURER PRIOR TO ANY ROUGH-IN.	MAINTAINING THE INTEGRITY OF THE EXISTING CIR ANY ADDITIONAL CONDUIT, WIRING, BOXES, ETC. N
			NSULATED FLEXIBLE DUCT	DUPLEX, 20 A, 125 V, 2 P, 3 RECEPTACLE - NEMA 5-20	/, GROUNDING	ABBREVIATIONS:			GENERAL DEMOLITION NOTES:	T. PROVIDE FINAL CONNECTION TO ALL EQUIPMENT, INCLUDING ANY CORD AND PLUG SETS FOR EQUIPMENT	TO MODIFY THE EXISTING CIRCUIT TO MAINTAIN TH INTEGRITY ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE BA
F		<u>⊩</u> mm	LINEAR SLOT DIFFUSER, TYPE, SIZE, & CFM	DOUBLE DUPLEX, 20 A, 12	/, 2 P, 3 W,	AD ACCESS DOOR AFF ABOVE FINISHED FLOOR			A. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL DEMOLISHED MATERIALS AND EQUIPMENT. STORE ITEMS ON SITE AS DIRECTED BY OWNER.	NOT PROVIDED WITH IT (WHETHER SPECIFICALLY NOTED OR NOT). COORDINATE ALL WORK WITH THE EQUIPMENT SUPPLIER AND OWNER; AND VERIFY ALL ROUGH-IN	G. EXISTING CONDITIONS ON THIS SET OF CONSTRUCT DOCUMENTS WERE TAKEN FROM EXISTING DRAWN
	MOTORIZED TWO-WAY VALVE		SUPPLY GRILLE- SQUARE CONNECTION, TYPE,	₩ GROUNDING RECEPTACLE Image: Duplex, 20 A, 125 V, 2 P, 3	/, GROUND FAULT	AFG ABOVE FINISHED GRADE			B. EXISTING CONDITIONS ON THIS SET OF BID DOCUMENTS	LOCATIONS AND REQUIREMENTS PRIOR TO ANY ROUGH- IN.	LIMITED SITE VISITS, AND VISUAL OBSERVATIONS. VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBM FINAL BIDS. CHANGE ORDERS WILL NOT BE PAID D
	AUTOMATIC FLOW CONTROL VALVE		SUPPLY GRILLE - ROUND CONNECTION, TYPE,	INTERRÚPTER TYPE GROU RECEPTACLE - NEMA 5-20		AHU AIR HANDLING UNIT C CONDUIT			WERE TAKEN FROM EXISTING DRAWINGS, LIMITED SITE VISITS, AND VISUAL OBSERVATIONS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS.	U. THERMOSTATS AND ALL ASSOCIATED LOW VOLTAGE CONTROL WIRING SHALL BE SUPPLIED AND INSTALLED BY THE HVAC CONTRACTOR. THE ELECTRICAL	UNANTICIPATED CONDITIONS TO MEET INTENT OF
			SIZE, & CFM	DOUBLE DUPLEX, 20 A, 12 GROUND FAULT INTERRUI GROUNDING RECEPTACLE	ER TYPE	C CONDUIT CO CLEANOUT			CHANGE ORDERS WILL NOT BE PAID DUE TO UNANTICIPATED CONDITIONS TO MEET INTENT OF WORK.	BY THE HVAC CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL THE NECESSARY CONDUIT, BOXES, ETC. FOR THE	H. REFER TO ARCHITECTURAL DEMOLITION PLANS FO PHASING AND EXTENTS OF DEMOLITION.
			RETURN GRILLE - SQUARE CONNECTION, TYPE, SIZE, & CFM	DUPLEX, 20 A, 125 V, 2 P, 3	/, GROUNDING	CU CONDENSING UNIT			C. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR PHASING AND EXTENTS OF DEMOLITION.	INSTALLATION OF THERMOSTATS. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND CONNECTION OF THE THERMOSTATS	I. PROVIDE TEMPORARY POWER OR LIGHTING REQU THE CONSTRUCTION MANAGER.
E			RETURN GRILLE - ROUND CONNECTION, TYPE, SIZE, & CFM	TYPE RECEPTACLE WITH 20AMP, 125V, 2P, 3W GROU		CUH CABINET UNIT HEATER CW DOMESTIC COLD WATER			D. PROVIDE TEMPORARY HEATING AND/OR COOLING AS REQUIRED BY THE GENERAL CONTRACTOR OR	AND ALL CONTROL WIRING. REFER TO MECHANICAL PLANS FOR THERMOSTAT LOCATIONS. a. PROVIDE BACK BOX AND CONDUIT TO	J. CONTRACTOR RESPONSIBLE FOR ALL CORING, PA AND REPAIR OF ALL WALL AND FLOOR SYSTEMS A REQUIRED DUE TO NEW CONSTRUCTION. MAINTA
	TEMPERATURE AND PRESSURE RELIEF VALVE		RETURN GRILLE - DUCTLESS, TYPE, SIZE, & CFM	ADDITIONAL SPECIAL REC		CWR CHILLED WATER RETURN			CONSTRUCTION MANAGER AND AS REQUIRED PER THE SPECIFICATIONS.	ACCESSIBLE CEILING AS REQUIRED FOR THE DIVISION 23 WALL MOUNTED CONTROL DEVICES	FIRE RATINGS.
			EXHAUST GRILLE - SQUARE CONNECTION, TYPE SIZE, & CFM	. [20]	RECEPTACLE	CWS CHILLED WATER SUPPLY DF DRINKING FOUNTAIN			E. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING, PATCH, AND REPAIR OF ALL WALL AND FLOOR SYSTEMS AS REQUIRED DUE TO CONSTRUCTION WORK. MAINTAIN	FOR BUILDING AUTOMATION SYSTEM DEVICES. COORDINATE EXACT LOCATIONS AND OTHER REQUIREMENTS WITH MECHANICAL DRAWINGS	K. REMOVE ALL UNUSED CONDUIT AND WIRING LOCA WITHIN THE AREA OF CONSTRUCTION.
			EXHAUST GRILLE - ROUND CONNECTION, TYPE, SIZE, & CFM	FB1 RECESSED RECTANGULA		DF DRINKING FOUNTAIN DN DOWN			AS REQUIRED DUE TO CONSTRUCTION WORK. MAINTAIN ALL FIRE RATINGS. F. REMOVE ALL UNUSED SHEETMETAL WORK AND PIPING	AND THE TEMPERATURE CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. THERMOSTATS, TEMPERATURE SENSORS,	L. REMOVE AND REPLACE COVERPLATES AS NEEDED EXISTING WALLS DUE TO NEW FINISHES.
	FS	$- \qquad \qquad$	LOUVER - INTAKE, TYPE, SIZE, & CFM	FLOOR BOX SCHEDULE FC	DETAILS	EF EXHAUST FAN			F. REMOVE ALL UNUSED SHEETMETAL WORK AND PIPING LOCATED WITHIN THE AREA OF CONSTRUCTION.	STATIC PRESSURE SENSORS, HUMIDISTATS, ETC. SHALL BE INSTALLED AT THE SAME ELEVATION AS THE LIGHT SWITCHES UNLESS	M. REFER TO ARCHITECTURAL DRAWINGS FOR ALL E EQUIPMENT REQUIRED TO BE RELOCATED. CONTR SHALL FULLY COORDINATE SCHEDULE OF RELOCA
D			LOUVER - EXHAUST, TYPE, SIZE, & CFM	(FB) RECESSED ROUND FLOOP DATA AND POWER - REFE SCHEDULE FOR DETAILS		EWCELECTRIC WATER COOLERFCUFAN COIL UNIT				REQUIRED OTHERWISE.	SHALL FULLY COORDINATE SCHEDULE OF RELOCA EQUIPMENT WITH OWNER.
	FLOAT TRAP	AMPERS: \200/ +	LUME DAMPER WITH LOCKING QUADRANT	(FB1) SURFACE MOUNTED FLOO INCLUDE DATA AND POWE		FD FLOOR DRAIN				V. PROVIDE UNSWITCHED/UNCONTROLLED HOT FROM NEAREST CIRCUIT TO EXIT SIGNS AND EMERGENCY FIXTURES WITH INTEGRAL BATTERIES.	
	FLOAT AND THERMOSTATIC TRAP BUCKET TRAP		RE DAMPER		DETAILS	FFCOFINISHED FLOOR CLEANOUTFGCOFINISHED GRADE CLEANOUT				W. CONTRACTOR SHALL CONTACT THE LOCAL ELECTRIC UTILITY COMPANY AND ARRANGE FOR ELECTRICAL	
			IOKE DAMPER	APPROPRIATE RECEPTAC UP CONDUIT, OUTLET BOX	(S) ON STUBBED	FIGCO FINISHED GRADE CLEANOUT FTR FIN TUBE RADIATION				SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC. INCURRED BY UTILITY COMPANY INTO BID. PROVIDE ALL MATERIALS AS	
				JUNCTION BOX 4" SQUARE		FWCO FINISHED WALL CLEANOUT				REQUIRED BY LOCAL AUTHORITIES FOR ELECTRIC SERVICE INSTALLATION. ALL WORK SHALL BE IN	
C	BELLOWS EXPANSION JOINT		NTROL DAMPER	U-0 JUNCTION BOX ON STUBB) UP CONDUIT	G GROUND WIRE HHP HYDRONIC HEAT PUMP				ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.	
			LIEF DAMPER	PRE-FABRICATED MULTI-C - OUTLETS 12" O.C. UNLES		HP HEAT PUMP				X. PROVIDE A SEPARATE CODE SIZED GREEN EQUIPMENT GROUND CONDUCTOR IN ALL CONDUITS AND RACEWAYS CONTAINING LINE VOLTAGE CIRCUITS (120V OR HIGHER).	
				- REFER TO SCHEDULE FO REQUIREMENTS		HW DOMESTIC HOT WATER HWR HEATING HOT WATER RETURN				Y. REFER TO SPECIAL SYSTEMS SHEETS FOR APPROXIMATE LOCATIONS OF ALL DATA. TELEPHONE, TV.	
		-	E CONTROLS: ERMOSTAT AT 4'-0" A.F.F. U.N.O. SERVING "UNIT"	PB PUSHBUTTON STATION		HWRHEATING HOT WATER RETURNHWSHEATING HOT WATER SUPPLY				NURSE CALL, ETC. DEVICES. COORDINATE LOCATION OF ALL ELECTRICAL EQUIPMENT WITH SPECIAL SYSTEMS	
		0	ERMOSTAT AT 4'-0" A.F.F. U.N.O. SERVING "UNIT" MPERATURE SENSOR AT 4'-0" A.F.F. U.N.O.	PLAN NOTATIONS:						DEVICES. Z. PROVIDE ALL RACEWAYS, SLEEVES, BOXES, CABLE	
в	BREAK BREAK ELBOW UP		MIDITY SENSOR AT 4'-0" A.F.F. U.N.O.			OC ON CENTER RA RETURN AIR				Z. PROVIDE ALL RACEWAYS, SLEEVES, DOAES, CABLE TRAY, ETC. AS INDICATED FOR THE OWNER PROVIDED DATA, PHONE, TV CABLING SYSTEM. COORDINATE EXACT REQUIREMENTS WITH OWNER AND OWNER CABLING	
	ELBOW DOWN	0	RBON DIOXIDE SENSOR AT 4'-0" A.F.F. U.N.O. EEZE STAT		4	SA SUPPLY AIR				REQUIREMENTS WITH OWNER AND OWNER CABLING CONTRACTOR.	
	TEE UP TEE DOWN	—		DETAIL REFERENCE - UPPER I		UH UNIT HEATER					
				INDICATES SHEET NUMBER		UNO UNLESS NOTED OTHERWISE UV UNIT VENTILATOR					
	SHOCK ABSORBER			 PLAN NOTE REFERENCE INDICATES CONNECTION TO E 	STING SYSTEM	V VENT					
	METER				IUMBER	VTR VENT THROUGH ROOF W WASTE					
Α	•			INDICATES DETAIL NUMBER, L		· ·- · =					
A	BP BACKFLOW PREVENTER			M1 INDICATES SHEET NUMBER							
A	BACKFLOW PREVENTER			M1 INDICATES SHEET NUMBER							

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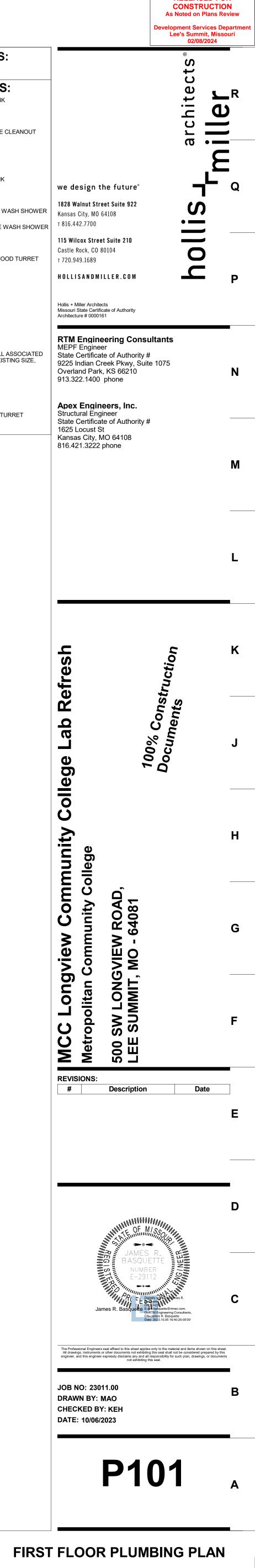


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		_			GENERAL NOTES:
				1 0.5" DI U 2 2.0" WA 3 3.0" WA 4 0.5" CW 5 0.5" HW 6 2.0" WA	HEET ME 100 FOR GENERAL NOTES. PLAN HEX NOTES: JP, ROUTE EXISTING TO CENTER OF SINK STE UP TO ACID REDUCER STE UP TO SERVE FINISH FLOOR GRADE CLEA UP TO SERVE SINK UP TO SERVE SINK STE UP TO SERVE TRAPPED FLOOR SINK ASTE UP TO TRAPPED FLOOR DRAIN
				 9 0.75 " H 10 0.5" CW 11 0.5" NA⁻ 12 2.0" WA 13 2.0" CIR 14 0.5" CW 15 0.5" CW 16 0.5" HW 	W UP TO SERVE MIXING VALVE FOR EYE WASH W UP TO SERVE MIXING VALVE FOR EYE WASH UP TO SERVE CHEMISTRY HOOD SINK TURAL GAS UP TO SERVE CHEMISTRY HOOD T STE UP TO SERVE SINK CUIT VENT UP UP TO SERVE ICE MACHINE UP TO SERVE LAB STATION, UP TO SERVE LAB STATION E PORTION OF EXISTING PIPING AND ALL ASSO RS, INSULATION, ETC. FIELD VERIFY EXISTING TON, LOCATION, ETC.
<pre>> 0</pre>				19 0.75" HV	N UP TO SERVE LAB STATION SINKS N UP TO SERVE LAB STATION SINKS TURAL GAS UP TO SERVE LAB STATION TURRE NT UP

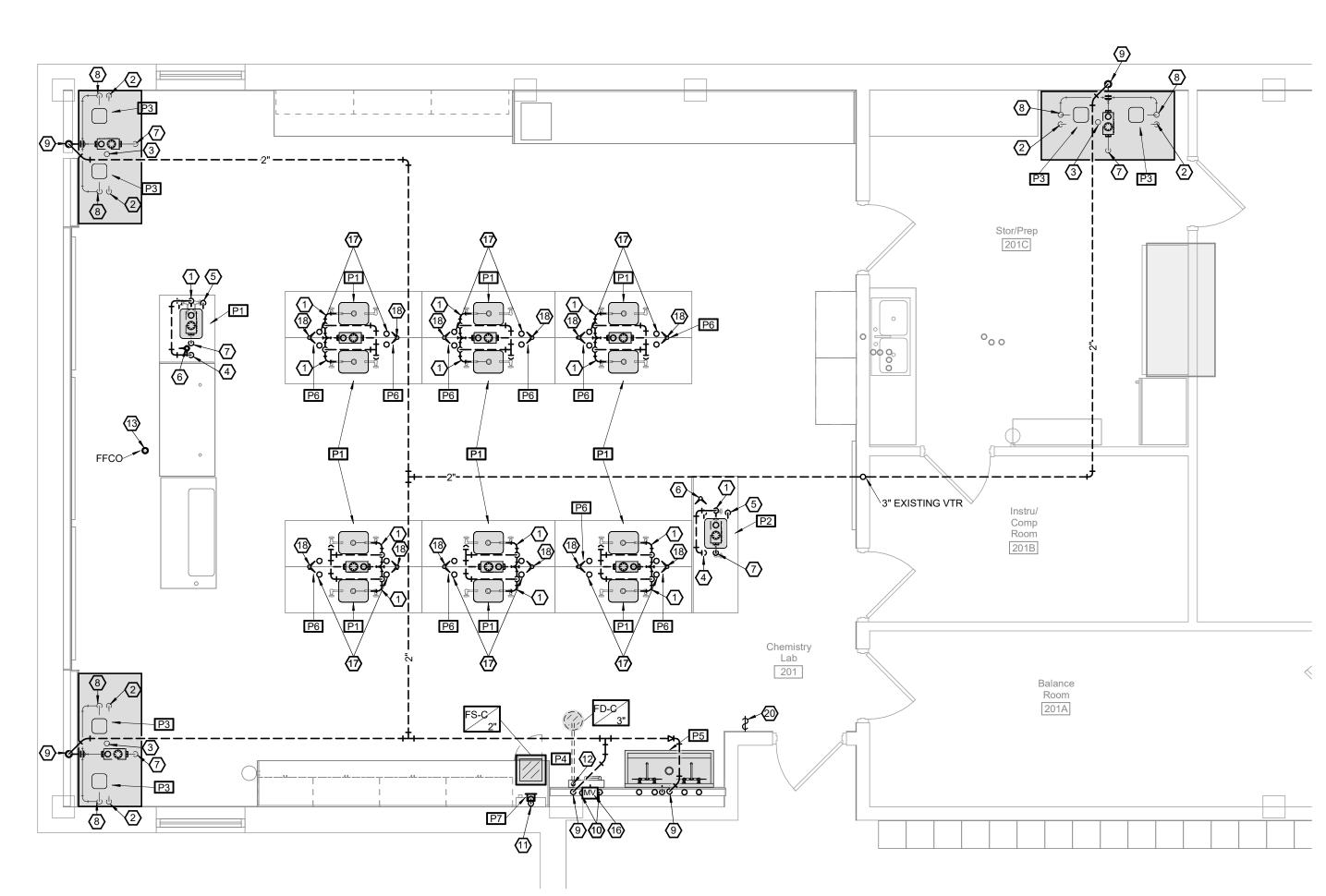
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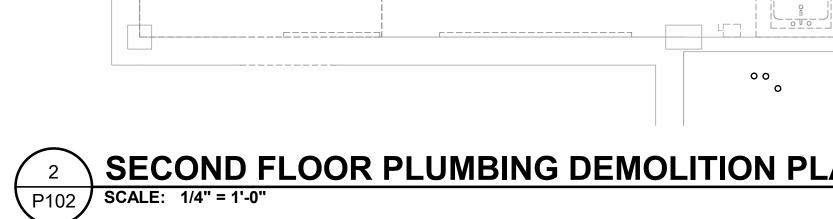


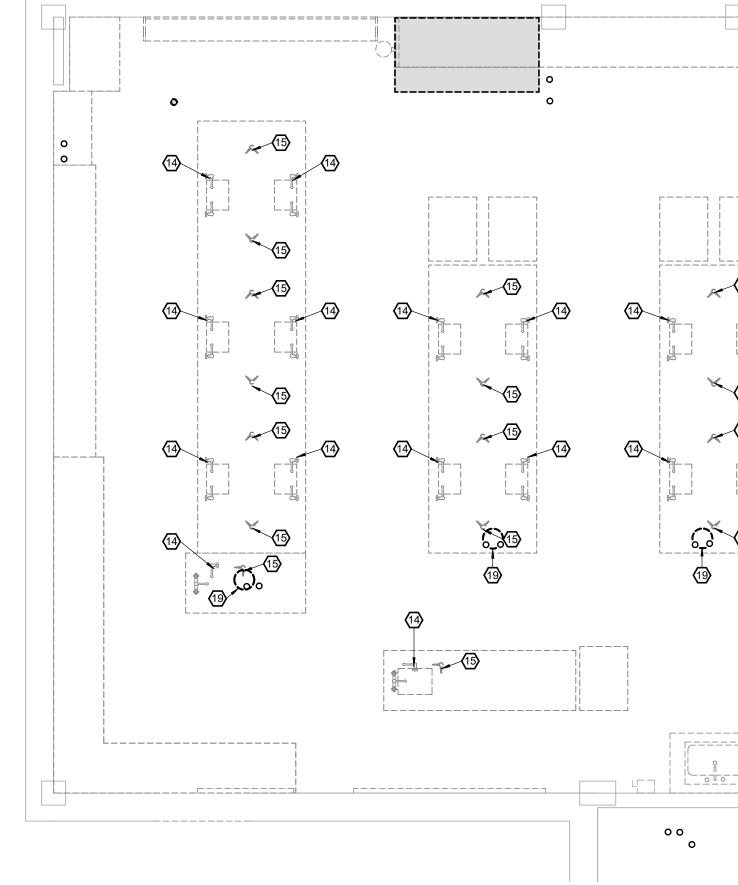
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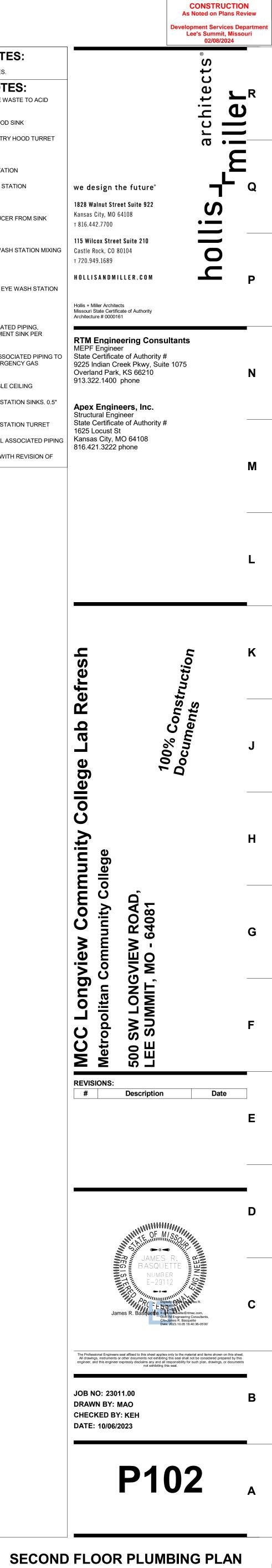








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	Stor/Prep 201C			REFER TO SHI 1 1.5" VENT REDUCED 2 0.5" CW D 3 0.5" NATU 4 1.5" VENT 5 0.5" CW, D 6 0.5" NATU 7 2.0" WAS 8 2.0" WAS 9 2.0" VENT 10 0.5" CW, D 11 0.5" CW, D 12 0.5" TEMP 13 4.00" WAS 14 REMOVE FAUCETS IMPROVE 15 REMOVE BELOW F 16 INSTALL 17 0.75" CW 18 0.5" NATU 19 REMOVE	0.5" HW DOWN TO SERVE LAB STATION JRAL GAS DOWN TO SERVE LAB STATION TE DOWN TE DOWN. ROUTE TO ACID REDUCER FROM SIN TUP 0.5" HW DOWN TO SERVE EYE WASH STATION N O REMAIN JP TO SERVE ICE MACHINE PERED WATER DOWN TO SERVE EYE WASH STATO O MIXING VALVE STE DOWN EXISTING SINK AND ALL ASSOCIATED PIPING, 5, ETC. PREPARE FOR REPLACEMENT SINK PER EMENT PLANS EXISTING GAS TURRETS AND ASSOCIATED PIPI FLOOR. MAINTAIN EXISTING EMERGENCY GAS F SOLENOID. MIXING VALVE ABOVE ACCESSIBLE CEILING , 0.75" HW DOWN TO SERVE LAB STATION SINKS EACH CONNECTION JRAL GAS DOWN TO SERVE LAB STATION TURRI NEUTRALIZATION BASIN AND ALL ASSOCIATED
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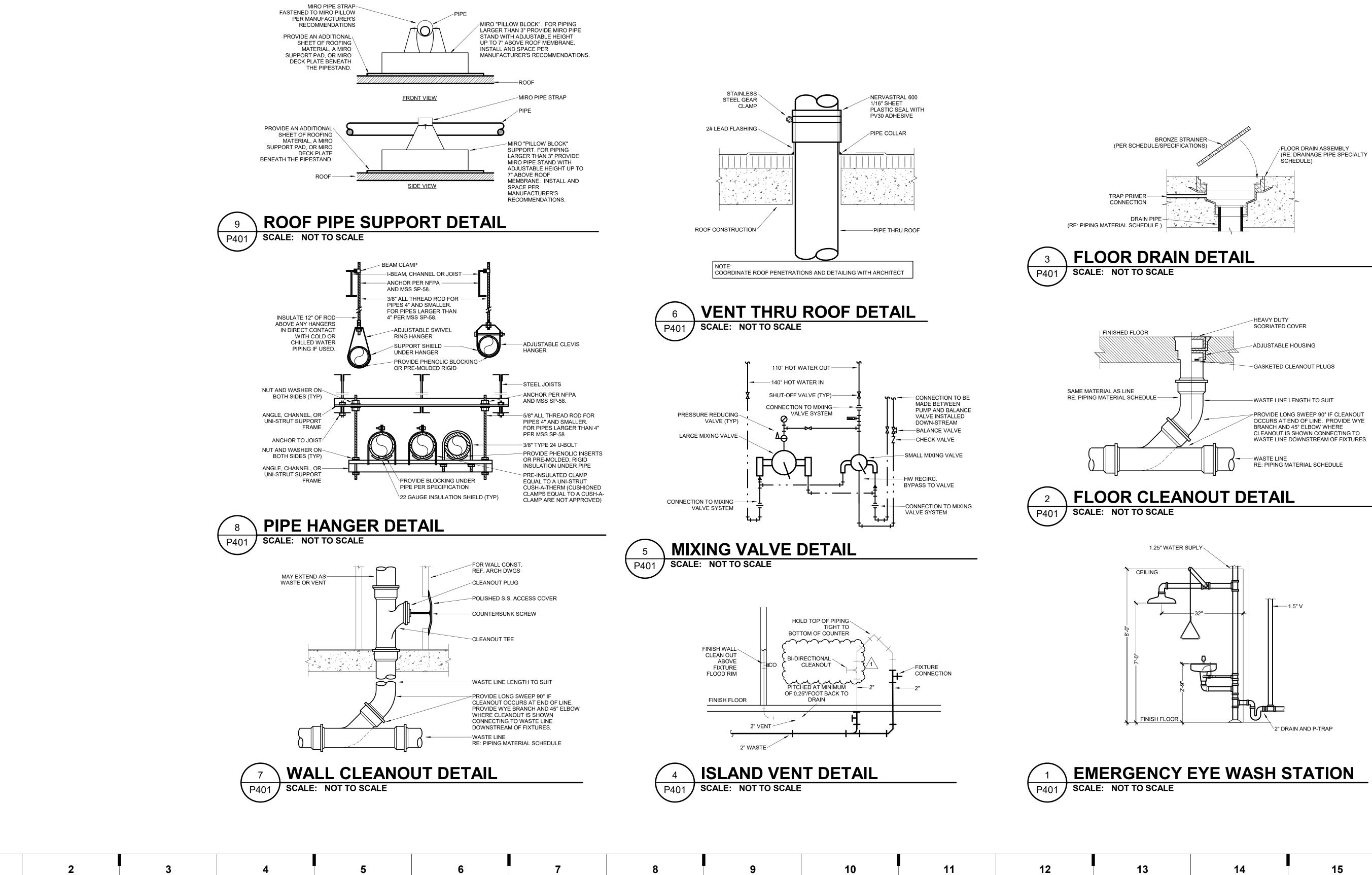


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	LUMBING	'FIXTUR	E SCHEDULE									
						CONNECT	ION SIZES					
PLAN MARK	N K DESCRIPTION	MANUFACTURER	MODEL	TRIM		CW HW IN) (IN)		NOTES				
P1	LAB SINK	REFER TO ARCHITECTURLA PLANS		FAUCET: (2) CHICAGO FAUCETS 900 SERIES LAB, 895-317GN2BVBE7CP, DECK MOUNTED 4" CENTR WITH ATMOSPHERIC VACUUM BREAKER, (1) REMOVEABLE LABATORY NOZZLE FOR LAB H ASPIRATOR, AERATORS SHALL BE INTERCHANGEABLE. 4" WRISTBLADE HANDL	OSE AND (1) VACUUM PUMP	0.5 0.5	2 1.5		DLES TO MATCH FAUCET SPECIF ATION BASIN AT EACH SINK - STI		RTOP SUPPLIER NUMBER OF HO	ES. PROVIDE POINT OF USE
P2	ADA LAB SINK	REFER TO ARCHITECTURLA PLANS	EPOXY INTEGRAL WITH COUNTERTOP	FAUCET: (2) CHICAGO FAUCETS 900 SERIES LAB, 895-317GN2BVBE7CP, DECK MOUNTED 4" CENTE WITH ATMOSPHERIC VACUUM BREAKER, (1) REMOVEABLE LABATORY NOZZLE FOR LAB H ASPIRATOR, AERATORS SHALL BE INTERCHANGEABLE. 4" WRISTBLADE HANDL	IOSE AND (1) VACUUM PUMP	0.5 0.5	2 1.5		DLES TO MATCH FAUCET SPECIF ATION BASIN AT EACH SINK - STI		RTOP SUPPLIER NUMBER OF HO	ES. PROVIDE POINT OF USE
P3	CHEMISTRY HOOD LAB SINK	LABCONCO	OVAL CUPSINK	FAUCET: CHICAGO FAUCETS 900 SERIES LAB, 895-317GN2BVBE7CP, DECK MOUNTED 4" CENTER SI ATMOSPHERIC VACUUM BREAKER, LABATORY NOZZLE FOR LAB HOSE, 4" WRISTBLADE		0.5 0.5	2 1.5	FAUCET HO	DLES TO MATCH FAUCET SPECIF	ED. PROVIDE POINT OF USE NEU	JTRALIZATION BASIN AT EACH SIN	IK - STRIEM LB-2'S
P4	RECESSED SAFETY STATION WITH DRAIN PAN, SURFACE MOUNTED	Guardian Equipment	GBF2173	RECESSED SAFETY STATION SURFACE MOUNTED WITH DRAIN AND WALL MOUNTED EXPOSE EMERGENCY THERMOSTATIC MIXING VALVE TO MEET ANSI Z358.1 REQU				EMERGEN	CY SHOWER / EYEWASH SHALL B	E APPROVED AND INSTALLED PE	R ACESSIBILITY.	
P5	2 STATION HAND WAHING TROUGH SINK	ELKAY	EWMA4820C	FAUCET: (2) CHICAGO MODEL 631-GN8FCABCP, 8" GOOSENECK SPOUT WITH 1.5 GPM FLOW CON MOUNTED, POLISHED CHROME, PROVIDE ASSE 1070 MIXING VALVE SET TO 105°F IF NOT INTEG COORDINATE WITH SINK MANUFACTURER OF LOCATING A 3RD HOL FOR DII W	RAL TO FAUCET, GRID STRAINER.						BE APPROVED BY AND INSTALLED WITH EXPOSED TRAP AND SUPPL	
P6	LABORATORY GAS TURRET	T&S BRASS AND BROZE WORKS, INC,	BL-4200-0	POLISHED CHROME PLATED BRASS BODY, SERRATED TIP OUTLETS AT 90 DEGREES A	ND 3/8" NPT FEMALE INLET							
Po	IURREI	WORKO, INC.										

					CC	ONNECTION S	IZES	
PLAN MARK	DESCRIPTION	MANUFACTURER	MODEL	ТКІМ	CW (IN)	HW W (IN) (IN)	V (IN)	NOTES
P1	LAB SINK	REFER TO ARCHITECTURLA PLANS		FAUCET: (2) CHICAGO FAUCETS 900 SERIES LAB, 895-317GN2BVBE7CP, DECK MOUNTED 4" CENTER SET, 6" RIGID GOOSENECK SPOUT WITH ATMOSPHERIC VACUUM BREAKER, (1) REMOVEABLE LABATORY NOZZLE FOR LAB HOSE AND (1) VACUUM PUMP ASPIRATOR,AERATORS SHALL BE INTERCHANGEABLE. 4" WRISTBLADE HANDLE, GRID STRAINER	0.5	0.5 2	1.5	FAUCET HOLES TO MATCH FAUCET SPECIFIED. COORDINATE WITH COUNTERTOP SUPPLIER NUMBER OF HOLES. PROVIDE POINT OF USE NEUTRALIZATION BASIN AT EACH SINK - STRIEM LB-2'S
P2	ADA LAB SINK	REFER TO ARCHITECTURLA PLANS		FAUCET: (2) CHICAGO FAUCETS 900 SERIES LAB, 895-317GN2BVBE7CP, DECK MOUNTED 4" CENTER SET, 6" RIGID GOOSENECK SPOUT WITH ATMOSPHERIC VACUUM BREAKER, (1) REMOVEABLE LABATORY NOZZLE FOR LAB HOSE AND (1) VACUUM PUMP ASPIRATOR,AERATORS SHALL BE INTERCHANGEABLE. 4" WRISTBLADE HANDLE, GRID STRAINER	0.5	0.5 2	1.5	FAUCET HOLES TO MATCH FAUCET SPECIFIED. COORDINATE WITH COUNTERTOP SUPPLIER NUMBER OF HOLES. PROVIDE POINT OF USE NEUTRALIZATION BASIN AT EACH SINK - STRIEM LB-2'S
P3	CHEMISTRY HOOD LAB SINK	LABCONCO	OVAL CUPSINK	FAUCET: CHICAGO FAUCETS 900 SERIES LAB, 895-317GN2BVBE7CP, DECK MOUNTED 4" CENTER SET, 6" RIGID GOOSENECK SPOUT WITH ATMOSPHERIC VACUUM BREAKER, LABATORY NOZZLE FOR LAB HOSE, 4" WRISTBLADE HANDLE, GRID STRAINER	0.5	0.5 2	1.5	FAUCET HOLES TO MATCH FAUCET SPECIFIED. PROVIDE POINT OF USE NEUTRALIZATION BASIN AT EACH SINK - STRIEM LB-2'S
P4	RECESSED SAFETY STATION WITH DRAIN PAN, SURFACE MOUNTED	Guardian Equipment	GBF2173	RECESSED SAFETY STATION SURFACE MOUNTED WITH DRAIN AND WALL MOUNTED EXPOSED SHOWER HEAD. PROVIDE WITH EMERGENCY THERMOSTATIC MIXING VALVE TO MEET ANSI Z358.1 REQUIREMENTS.	-		-	EMERGENCY SHOWER / EYEWASH SHALL BE APPROVED AND INSTALLED PER ACESSIBILITY.
P5	2 STATION HAND WAHING TROUGH SINK	ELKAY	EWMA4820C	FAUCET: (2) CHICAGO MODEL 631-GN8FCABCP, 8" GOOSENECK SPOUT WITH 1.5 GPM FLOW CONTROL, 4" WRISTBLADE HANDLE WALL MOUNTED, POLISHED CHROME, PROVIDE ASSE 1070 MIXING VALVE SET TO 105°F IF NOT INTEGRAL TO FAUCET, GRID STRAINER. COORDINATE WITH SINK MANUFACTURER OF LOCATING A 3RD HOL FOR DII WATER LOCATION.	-		-	FAUCET HOLES TO MATCH FAUCET SPECIFIED. FIXTURE ASSEMBLY MUST BE APPROVED BY AND INSTALLED PER BUILDING CODE ACCESSIBLI REQUIREMENTS. PROVIDE INSULATION KIT ON ALL ACCESSIBLE FIXTURES WITH EXPOSED TRAP AND SUPPLIES.
P6	LABORATORY GAS TURRET	T&S BRASS AND BROZE WORKS, INC.	BL-4200-0	POLISHED CHROME PLATED BRASS BODY, SERRATED TIP OUTLETS AT 90 DEGREES AND 3/8" NPT FEMALE INLET	-		-	
P7	ICE MAKER VALVE BOX	GUY GRAY	BIM875	0.25" OUTLET, COMPRESSION ANGLE VALVE, 20 GAUGE UNPAINTED STEEL BOX.	0.5		-	

DF	DRAINAGE PIPE SPECIALTY SCHEDULE											
PLAN MARK	DESCRIPTION	MANUFACTURER	MODEL	ТКІМ	NOTES							
	NEUTRALIZATION TANK FOR ADA SINK	STRIEM	LB-2-ADA									
FD-C	7" ROUND FLOOR DRAIN	J.R. SMITH	3020-F-C	NICKEL BRONZE TOP, NICKEL BRONZE STRAINER, NICKEL BRONZE SEEPAGE CONTROL FLANGE, DEEP SEAL TRAP AND ACID-RESISTANT COATING.	DRAIN SIZE SHALL MATCH SANITARY BRANCH SERVING DRAIN. REFERENCE PLANS FOR SIZE.							
FFCO	FINISHED FLOOR CLEANOUT	J.R. SMITH	4023		VERIFY FLOOR MATERIALS USED FROM ARCHITECTURAL PLANS. CLEANOUT TO BE FULL SIZE OF SOIL PIPE UP TO AND INCLUDING 4-INCH ID. REFERENCE PLANS FOR SOIL PIPE SIZE.							
FS-C	FLOOR SINK	J.R. SMITH	2450	ACID RESISTANT COATING, SEEPAGE CONTROL FLANGE, REMOVAL STRAINER, 10" DEEP BODY.	DRAIN SIZE SHALL MATCH SANITARY BRANCH SERVING DRAIN. REFERENCE PLANS FOR SIZE.							
NTS	NEUTRALIZATION TANK	STRIEM	LB-2-ADA	POINT OF USE NEUTRALIZATION BASIN AT EACH SINK.								
WCO	WALL CLEANOUT	J.R. SMITH	4532 WITH CLEANOUT PLUG OR 4512 WITH COUNTERSUNK PLUG		CLEANOUT TO BE FULL SIZE OF SOIL PIPE UP TO AND INCLUDING 4-INCH ID. REFERENCE PLANS FOR SOIL PIPE SIZE.							

	PIPING						FITTINGS		MAX. WORKING		FIELD TEST		
SYSTEM	SIZE	TYPE	SCHEDULE	GRD	ASTM	MATERIAL	MATERIAL	TYPE	PRESS. (PSI)	TEMP. (°F)	PRESS. (PSI)	TIME	DESIGN NOTES (HIDE)
DOMESTIC WATER ABOVE GRADE	ALL	L	-	-	B88	CP	CP	SJ	120	40-180	150	1 HR	DOMESTIC WATER ABOVE GRADE
DOMESTIC WATER BELOW GRADE	ALL	K	-	-	B88	CP	CP	SJ	120	40-180	150	1 HR	DOMESTIC WATER BELOW GRADE
TEMPERATURE & PRESSURE RELIEF DRAIN	ALL	М	-	-	B88	CP	CP	DR\S	10 ft	140-210	10 ft	1 HR	TEMPERATURE & PRESSURE
NATURAL GAS ABOVE GRADE	0.5" - 2.5"	CW	40	А	A53	CSBLK	MI	THRD	1	-	100	1 HR	WATURAL BASABONTS GRADE
ACID WASTE & VENT ABOVE GRADE (IN RETURN AIR PLENUMS)	ALL	DWV	40	-	F1673	PVDF	PVDF	DR\SF	10 FT	50-180	10 FT	1 HR ((ACID WASTE & VENT ABOVE GRADE, ACID WASTE & VENT PIPING SHALL BE NONCOMBUSTIBLE AND LISTED & LABELED TO HAVI A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723.



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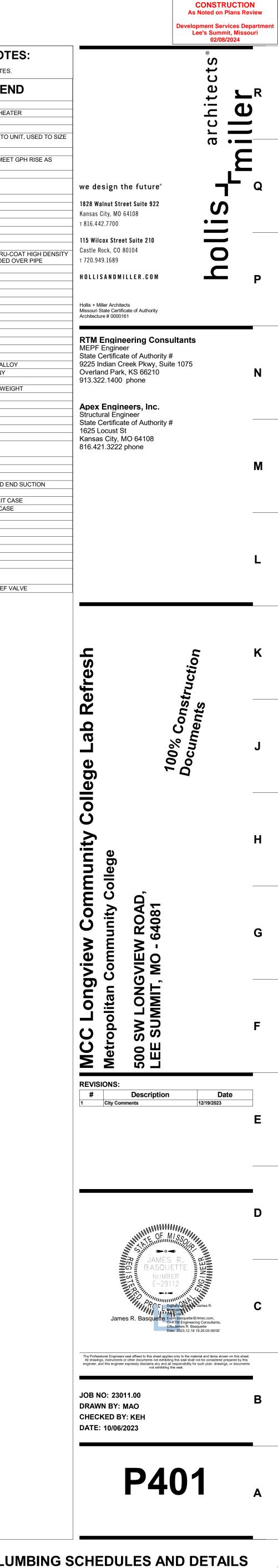
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						GENERAL NOTES:
					REFER T	O SHEET ME100 FOR GENERAL NOTES.
٦						SCHEDULE LEGEND
4						
					GPH	MINIMUM EFFICIENCY OF WATER HEATER GALLONS PER HOUR
					HP	HORSEPOWER
					LOAD	NOMINAL CONNECTED GAS LOAD TO UNIT, USED
						GAS PIPING.
-					NPSH	NET POSITIVE SECTION HEAD
					OUTPUT	MINIMUM REQUIRED OUTPUT TO MEET GPH RISE SCHEDULED
-					RPM	REVOLUTIONS PER MINUTE
-					PIPE MATERI	AL SCHDULE
					ATP	ARMCO TRUSS PIPE
-					BLK	BLACK
					BS	BELL & SPIGOT
					CF CI	CRIMPED FITTING CAST IRON
					CP	COPPER
_					CS	CARBON STEEL
J					CTD	PIPE LINE SERVICE COMPANY X-TRU-COAT HIGH POLYETHYLENE COATING EXTRUDED OVER PIPE
					CW	CONTINOUS WELD
					DI	DUCTILE IRON
					DR	DRAINAGE FITTING
					GLV	GALVANIZED
					HF	HEAT FUSED
					LC	
					MI MJ	MALLEABLE IRON MECHANICAL JOINT
					NG	
					NH	NO-HUB
					PE	POLYETHYLENE
					PVC	POLYVINYL CHLORIDE
					S	BRAZED JOINT - SILVER BRAZING ALLOY
					SJ	SPOLDER JOINT 95-5 TIN-ANTIMONY
					SL SS	SEAMLESS STEEL STANDARD STRENGTH - SERVICE WEIGHT
					SW	SOLVENT WELD
					THRD	THREADED
					TS	TY-SEAL
					VCP	VITRIFIED CLAY PIPE
					WELD	WELDED
					XH	EXTRA HEAVY
					PUMP SCHEE	DULE
					AB	ALL BRONZE
					AI	ALL IRON
					BF	BRONZE FITTED
					BMCCES	BASE MOUNTED CLOSED COUPLED END SUCTION
					BMES BMHSC	BASE MOUNTED END SUCTION BASE MOUNTED HORIZONTAL SPLIT CASE
					BMUSC	BASE MOUNTED HORIZONTAL SPLIT CASE
					C	CONDENSER WATER
					СН	CHILLED/HOT WATER
					CW	CHILLED WATER
					DCW	DOMESTIC COLD WATER
					DHW	DOMESTIC HOT WATER
					HW	HEATING HOT WATER
						IN-LINE
					WATER HEAT	FER SCHEDULE

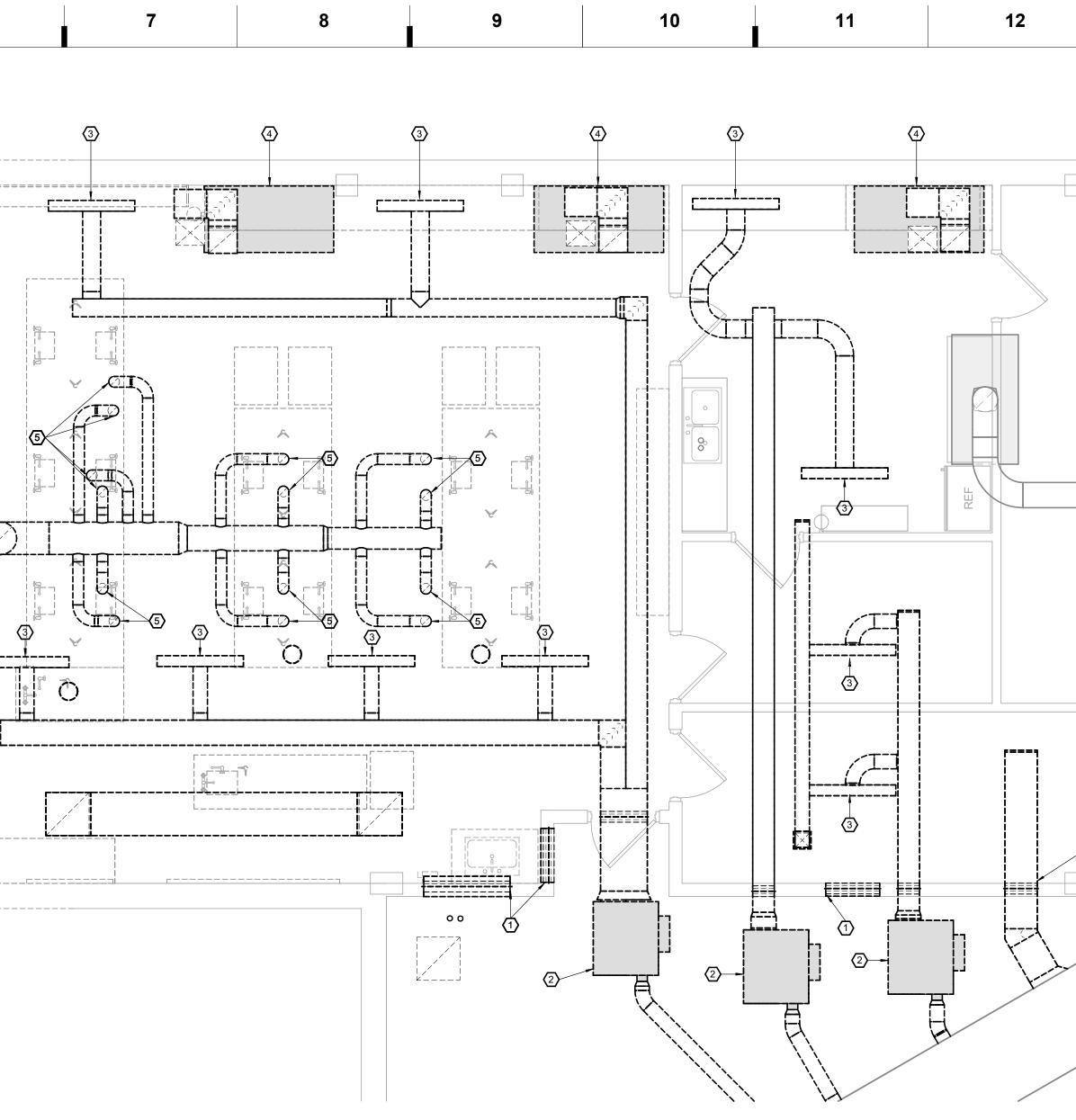
WATER HEATER SCHEDULE PTRV PRESSURE & TEMPERATURE RELIEF VALVE

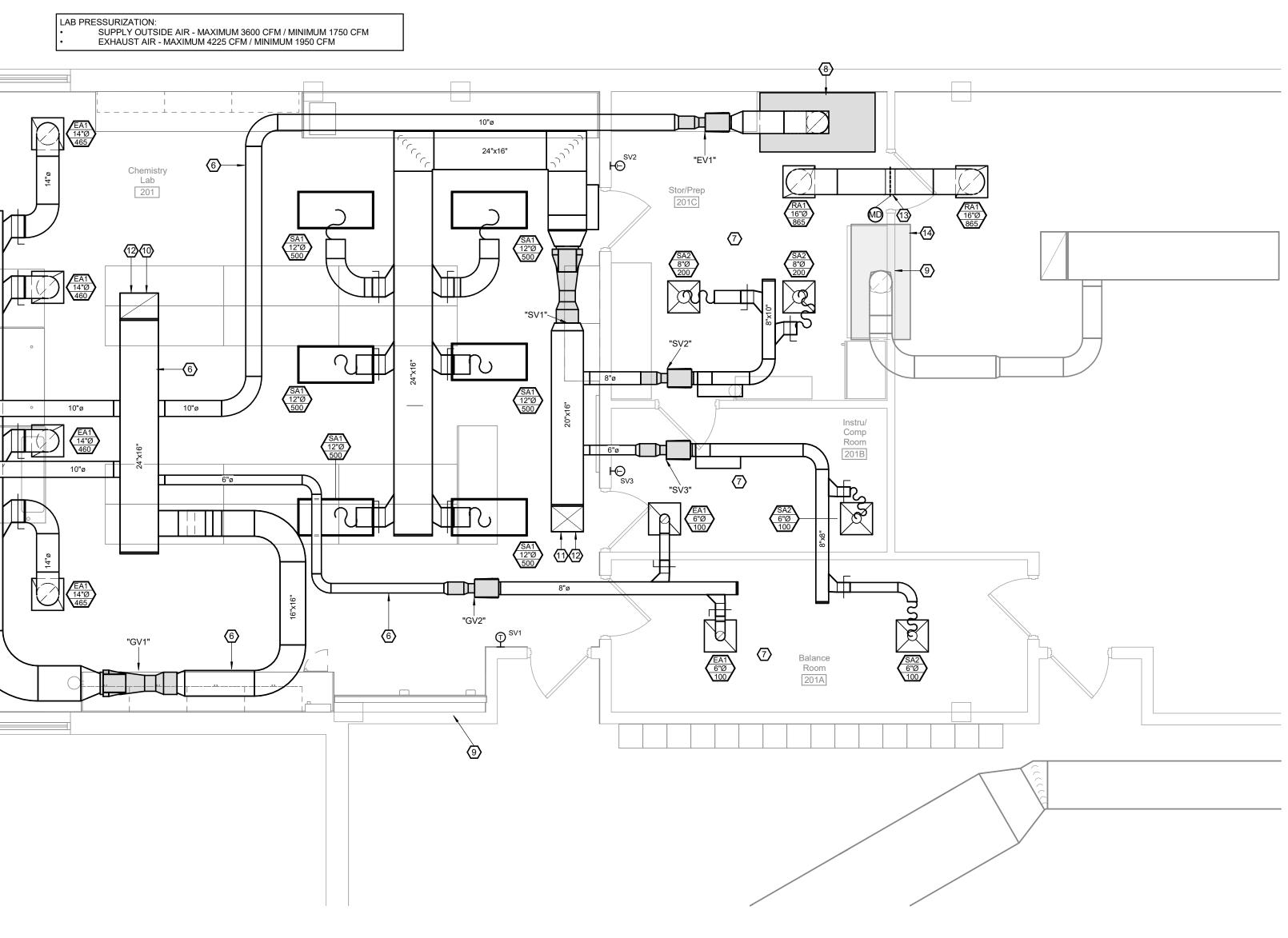
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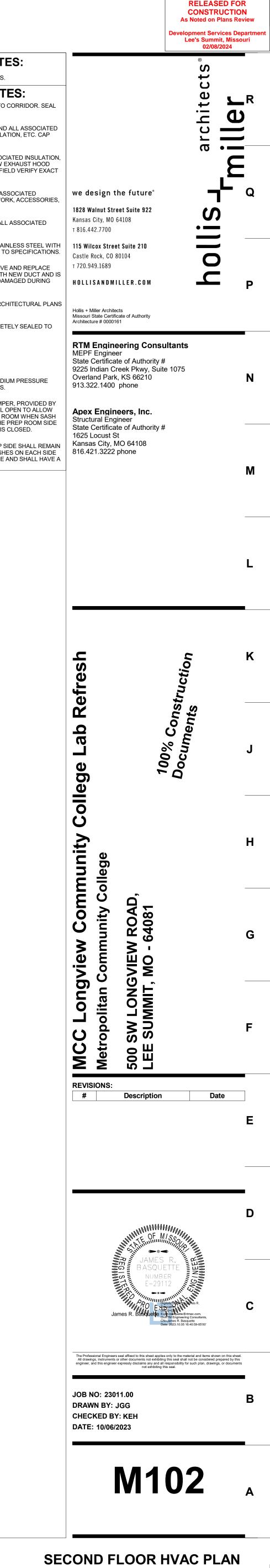
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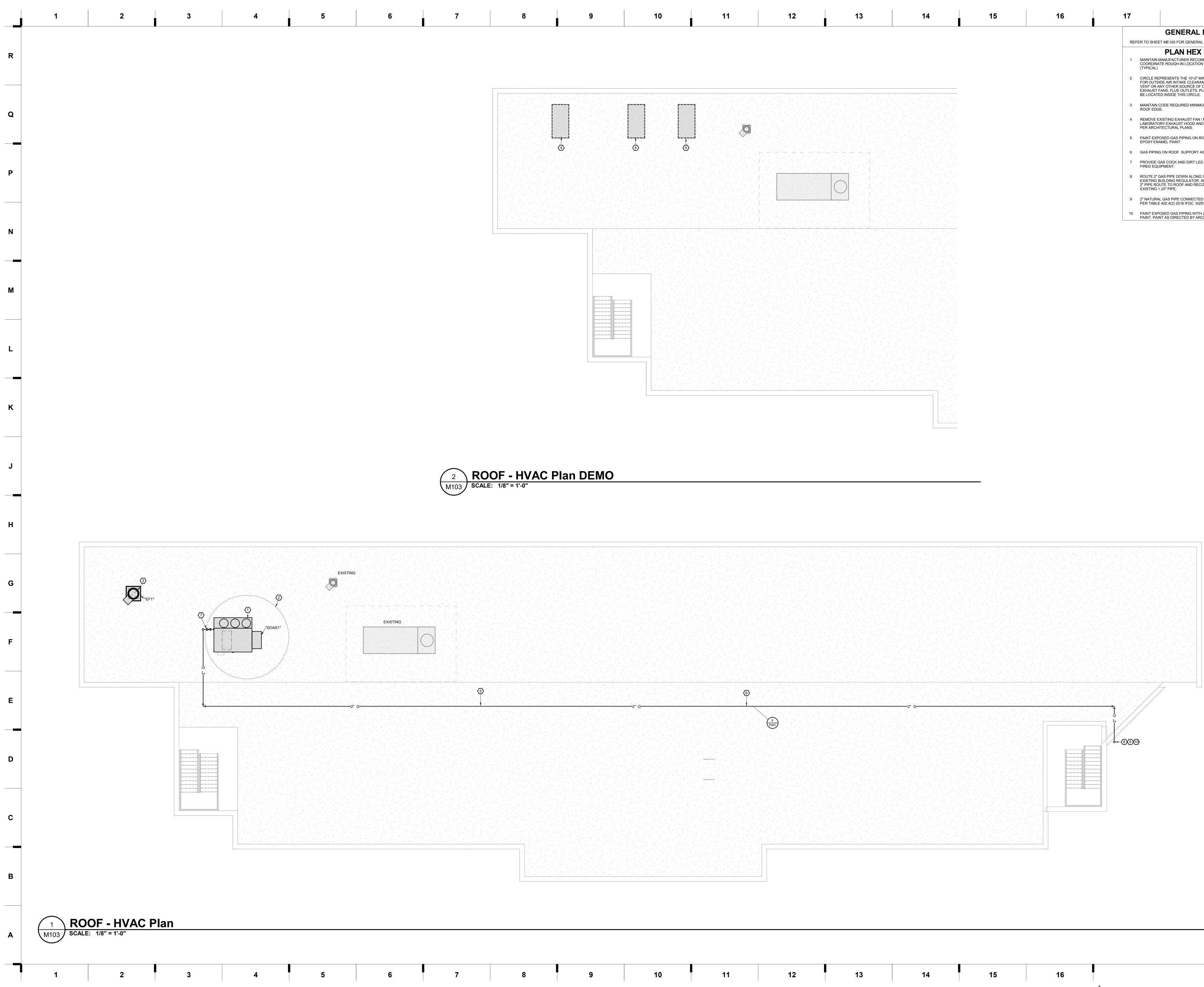


		 ARENOVE EXISTING TRANSFER GRILLE INTO CORRIDOR SI ALL OPENINGS INTO THE CORRIDOR REMOVE EXISTING TRANSFER GRILLE INTO CORRIDOR SI ALL OPENINGS INTO THE CORRIDOR REMOVE EXISTING DUCTWORK AND ASSOCIATED INSULA DUCT TAMAIN REMOVE EXISTING DUCTWORK AND ASSOCIATED INSULA TO THAN REMOVE EXISTING DUCTWORK AND ASSOCIATED INSULA DUCT TO MAKE ROOM FOR NEW EXAULTION, ETC. CA DUCT TAMAIN REMOVE EXISTING DUCTWORK AND ASSOCIATED INSULA HANGERS. ETC. TO MAKE ROOM FOR NEW EXAULTION DUCTWORK PERIMPROVEMENT PLANS. FILLED VERIFYER SIZE. LELEVATION, LOCATION, ETC. REMOVE EXISTING FUME HOOD AND ALL ASSOCIATED EXMUST FANIMARE UP ARE UNIT, DUCTWORK, ACCESSOF ETC. ALL LAB EXHAUST DUCT SHALL BE SITE STAINLESS STEEL ONE SEAM WELDED ON TOP SIDE. REFER TO SPECIFICATION CORRIGES IN NULL EXISTING RAPER SWITH NEW DUCT A RESPONSIBLE FOR REPLACING THES IF DAMAGED DUCTN CONSTRUCTION. LABORATORY FUME HOOD. REFER TO ARCHITECTURAL P FOR SPECIFICATION. ALL DUCTWORK SHALL EXISTING AREAS WITH NEW DUCT A RESPONSIBLE FOR REPLACING THES IF DAMAGED DUCTN RESPONSIBLE FOR REPLACING THES IF DAMAGED DUCTN CONSTRUCTION. LABORATORY FUME HOOD. REFER TO ARCHITECTURAL P FOR SPECIFICATION. ALL DUCTWORK SHALL EXISTING AREAS WITH NEW DUCT A RESPONSIBLE FOR REPLACING THES IF DAMAGED DUCTN RESPONSIBLE FOR REPLACING THES IF DAMAGED DUCTN AND SHALL COUNT OF UT DO TO AS UNIT ALL DUCTWORK SHALL EXISTING AREAS WITH NEW DUCT AND SHALL COUNT AND FREE ROOM SAND SHALL AND AND AND SHALL COUNT AND FREE ROOM SHALD SHALL DUCTWORK SHE ON THE REPLACING THE SHALL AND ON THE REPONSIBLE ON THE REPLACING THE SAME THOUGH PRESSURE DUCTWORK SHE REPOR FOR USE ON THE REPROAD MAD AND SHALL COUNT AND FREE REPOND SAND SHALL COUNT AND SHALL COUN
J	2 M102 SCALE: 1/4" = 1'-0"	
	LAB PRESSURIZATION: • SUPPLY OUTSIDE AIR - MAXIMUM 3600 CFM / MINIMUM 1750 CFM • EXHAUST AIR - MAXIMUM 4225 CFM / MINIMUM 1950 CFM	
H G F D	SECOND FLOOR HVAC PLAN	
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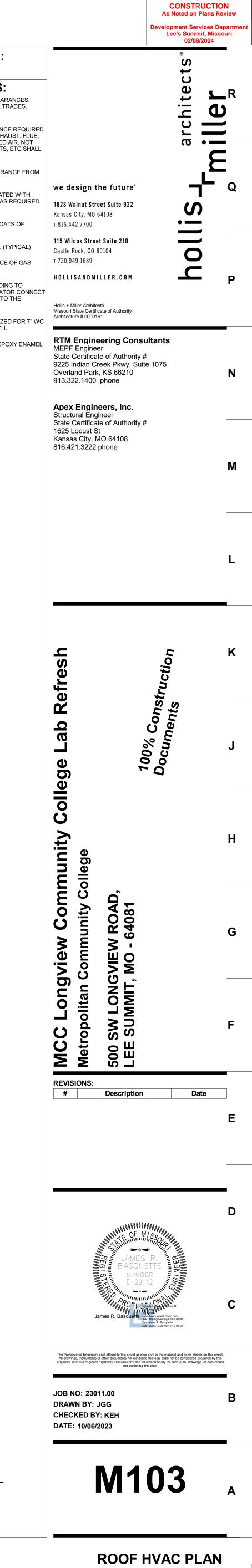






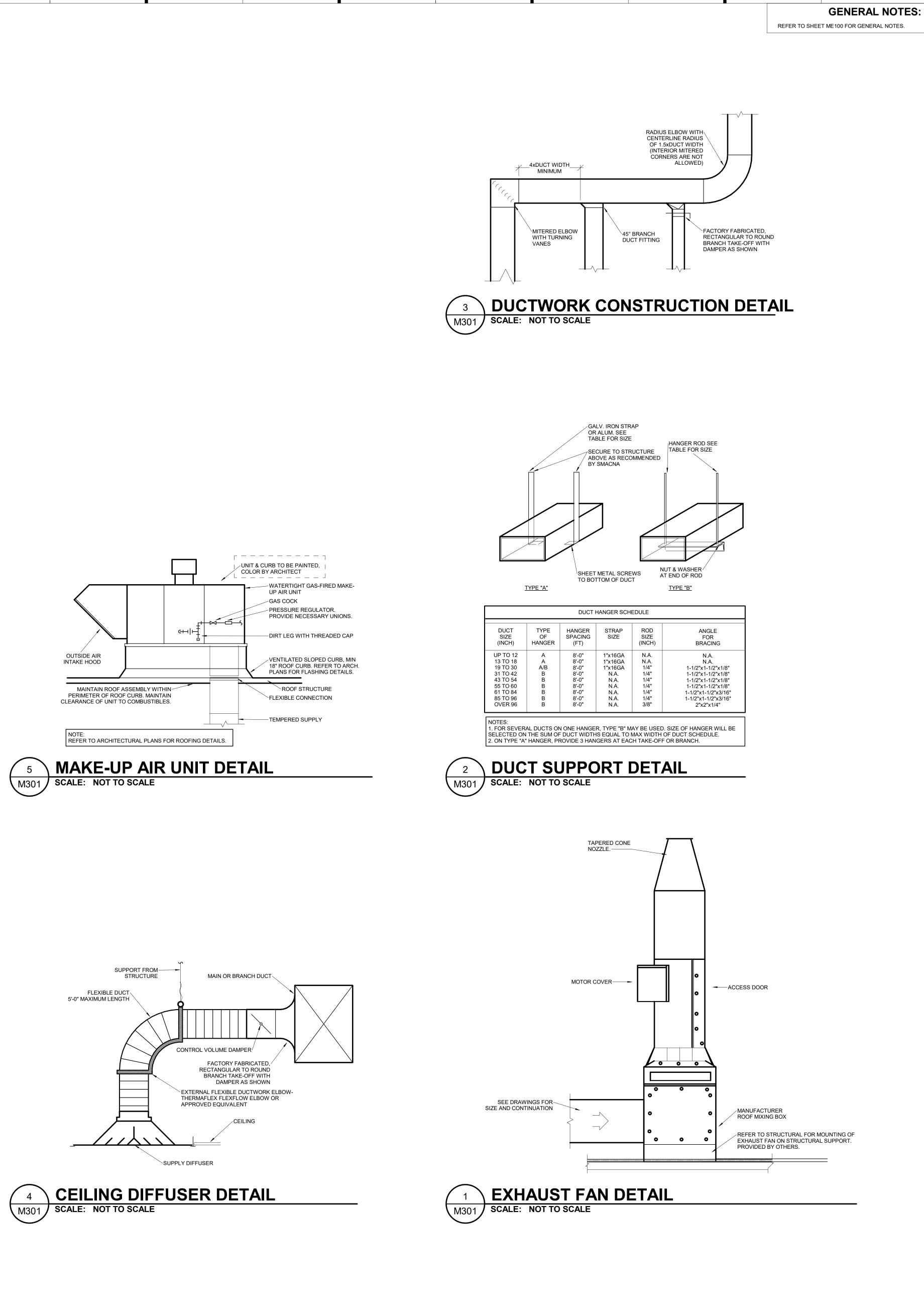
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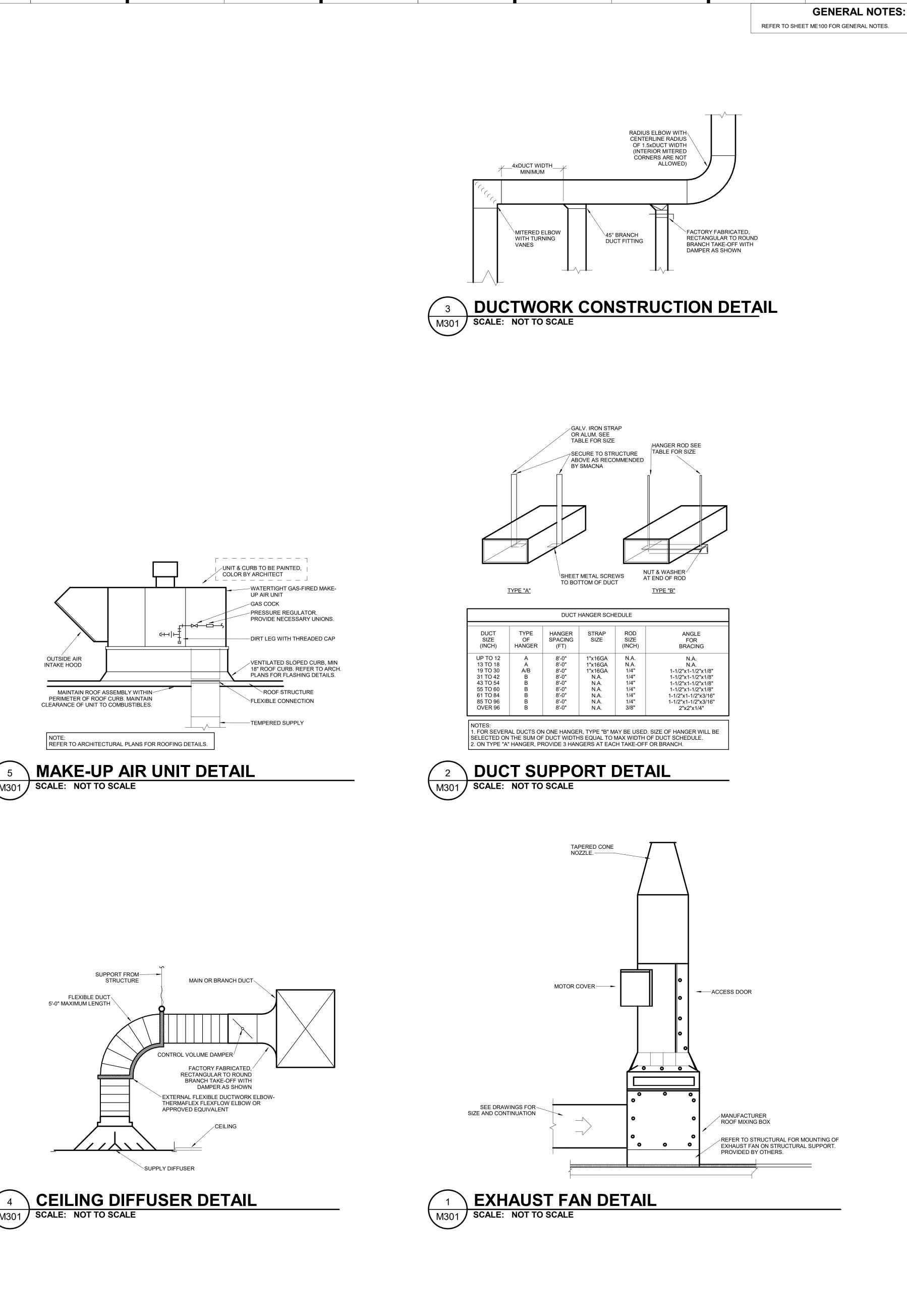
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					GENERAL NOTES:
					PLAN HEX NOTES:
				1 MAINT COOR (TYPIC	AIN MANUFACTURER RECOMMENDED CLEARAN(DINATE ROUGH-IN LOCATION WITH OTHER TRAD (AL)
				VENT EXHAU	E REPRESENTS THE 10'-0" MINIMUM DISTANCE RI IUTSIDE AIR INTAKE CLEARANCE FROM EXHAUST OR ANY OTHER SOURCE OF CONTAMINATED AIR JST FANS, FLUE OUTLETS, PLUMBING VENTS, ET CATED INSIDE THIS CIRCLE.
				3 MAINT ROOF	AIN CODE REQUIRED MINIMUM 10'-0" CLEARANCI EDGE.
				LABOF	VE EXISTING EXHAUST FAN / MAU ASSOCIATED V RATORY EXHAUST HOOD AND PATH ROOF AS REG RCHITECTURAL PLANS.
				5 PAINT EPOX	EXPOSED GAS PIPING ON ROOF WITH 2 COATS (Y ENAMEL PAINT.
				6 GAS P	IPING ON ROOF. SUPPORT AS PER DETAIL. (TYPI
				7 PROV FIRED	DE GAS COCK AND DIRT LEG AT EACH PIECE OF EQUIPMENT.
				EXIST 2" PIPI	E 2" GAS PIPE DOWN ALONG SIDE OF BUILDING T NG BUILDING REGULATOR. AFTER REGULATOR (E ROUTE TO ROOF AND RECONNECT PIPE TO TH NG 1.25" PIPE.
				9 2" NAT PER T	URAL GAS PIPE CONNECTED TO DOAS1 SIZED FO ABLE 402.4(2) 2018 IFGC. SIZED FOR 400 CFH.
성 : 이상, 이는 것 같은 것은 것 것 것 같은 것은 것 같은 것은 것 같은 것 같이 있는 것 같이 있다.				10 PAINT PAINT	EXPOSED GAS PIPING WITH 2 COATS OF EPOXY PAINT AS DIRECTED BY ARCHITECT.
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n - Real and a standard standard for a standard standard standard standard standard standard standard standard Na standard s Na standard s					
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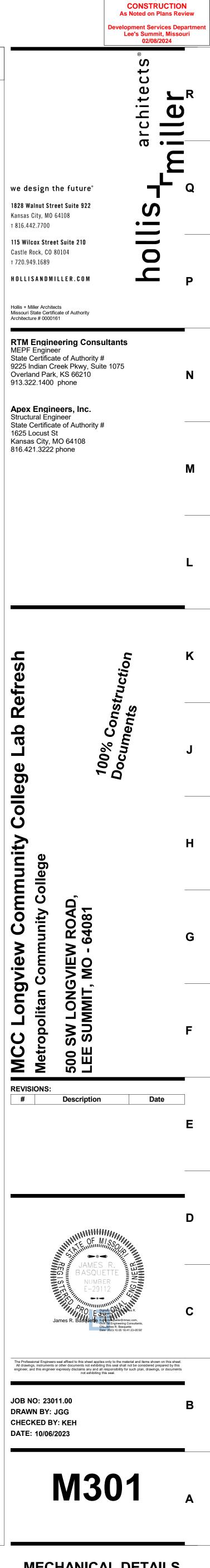
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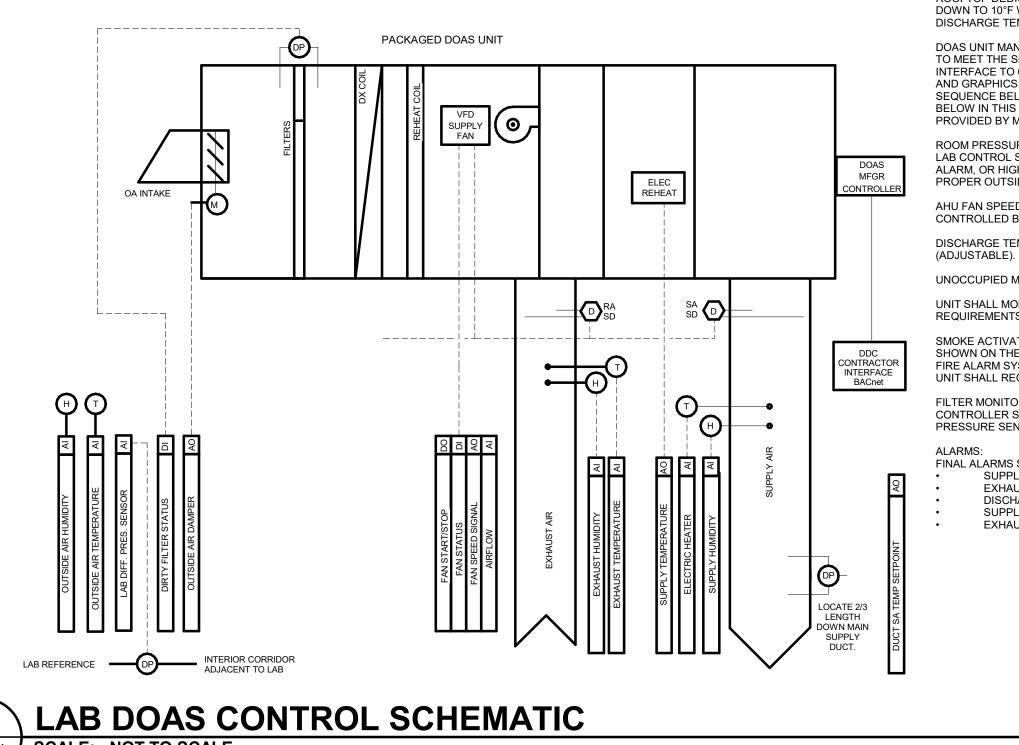


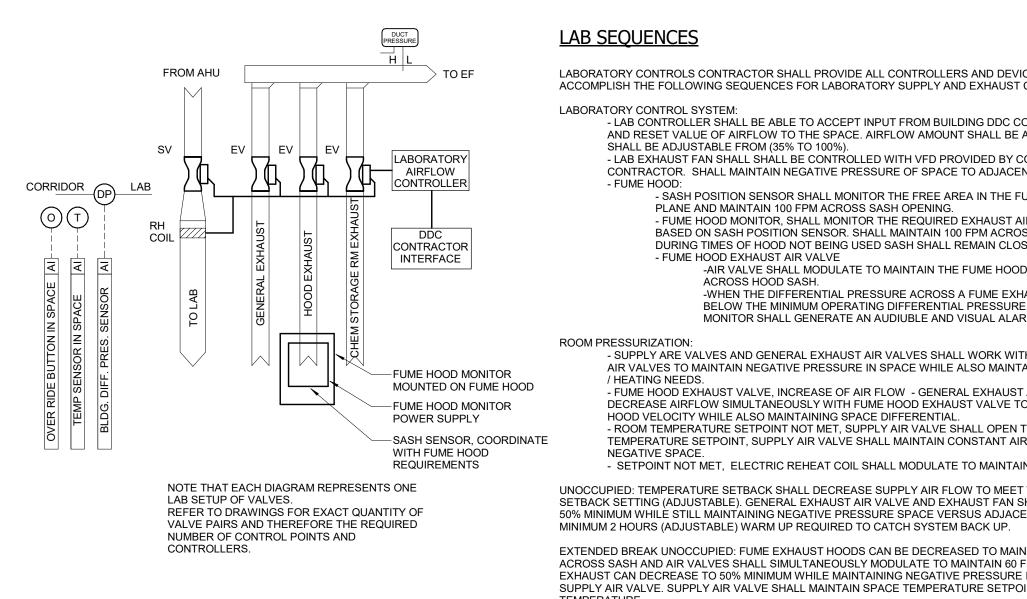
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R		OUTSIDE AIR VENTILATION UNIT SCHEDULE Schedule legend
		NAME OUTDOOR AIR FLOW SUPPLY FAV SEC SUPPLY FAV SEC
		E.A.T. ENTERING AIR TEMPERATURE E.S.P. EXTERNAL STATIC PRESSURE INCLUDES ALL WOR EXTERNAL TO UNIT E.W.T. ENTERING WATER TEMPERATURE
Q	AIR VALVE SCHE ROOM SERVED BY EQUIPMENT MARK FUNCTION	PRIMARY AIR FLOW PRIMARY AIR FLOW ELECTRIC REHEAT COIL FLA FULL LOAD AMPS MANUFACTURER / MODEL MIN (CFM) VALVE SIZE APD (W.C) KW E.A.T. HEATER PHASE GPH GALLONS PER HOUR KW E.A.T. L.A.T. HEATER PHASE VOLTAGE
	201CEV1HOOD/EXHAUST201EV2HOOD/EXHAUST201EV3HOOD/EXHAUST201GV1GENERAL EXHAU201A/BGV2GENERAL EXHAU201GV4CHURDLY	CRITICAL ROOM CONTROL - CLV-ST108-S0-FS-FHCVSS 725 CFM 440 CFM 8 0.11 in-wg 0 0 °F 1 0 V 316 STAINLESS, FAIL SAFE, STEP DOWN 24V TRANSFORMER PROVIDED BY CONTROLS CONTRACTOR GR/LB GR/BINS OF MOISTURE PER POUND OF DRY AIR CRITICAL ROOM CONTROL - CLV-ST108-S0-FS-FHCVSS 725 CFM 440 CFM 8 0.11 in-wg 0 0 °F 1 0 V 316 STAINLESS, FAIL SAFE, STEP DOWN 24V TRANSFORMER PROVIDED BY CONTROLS CONTRACTOR CRITICAL ROOM CONTROL - CLV-ST108-S0-FS-FHCVSS 725 CFM 440 CFM 8 0.11 in-wg 0 0 °F 1 0 V 316 STAINLESS, FAIL SAFE, STEP DOWN 24V TRANSFORMER PROVIDED BY CONTROLS CONTRACTOR ST CRITICAL ROOM CONTROL - CLV-ST108-S0-FS-FHCVSS 725 CFM 440 CFM 8 0.11 in-wg 0 0 °F 1 0 V 316 STAINLESS, FAIL SAFE, STEP DOWN 24V TRANSFORMER PROVIDED BY CONTROLS CONTRACTOR ST CRITICAL ROOM CONTROL - CLV-ST108-S0-FS-FHCVSS 725 CFM 440 CFM 8 0.11 in-wg 0 0 °F 1 0 V 316 STAINLESS, FAIL SAFE, STEP DOWN 24V TRANSFORMER PROVIDED BY CONTROLS CONTRACTOR N N N N N N N N N N N N
Ρ	201 SV1 SUPPLY 201C SV2 SUPPLY 201A/B SV3 SUPPLY * AIR VALVES PROVIDED BY THE CONTROLS OF	CRITICAL ROOM CONTROL - CLV-ST106-EC-FS 400 CFM 6 0.14 in-wg 6 55 °F 102 °F 3 208 V ALUMINUM, FAIL SAFE, SCR ELECTRIC HEAT, MANUFACTER INETGRAL DISCONNET SWITCH, STEP DOWN 24V TRANSFORMER PROVIDED BY CONTROLS CONTRACTOR CRITICAL ROOM CONTROL - CLV-ST106-EC-FS 400 CFM 6 0.14 in-wg 3 55 °F 102 °F 3 208 V ALUMINUM, FAIL SAFE, SCR ELECTRIC HEAT, MANUFACTER INETGRAL DISCONNET SWITCH, STEP DOWN 24V TRANSFORMER PROVIDED BY CONTROLS CONTRACTOR CRITICAL ROOM CONTROL - CLV-ST106-EC-FS 200 CFM 6 0.14 in-wg 3 55 °F 102 °F 3 208 V ALUMINUM, FAIL SAFE, SCR ELECTRIC HEAT, MANUFACTER INETGRAL DISCONNET SWITCH, STEP DOWN 24V TRANSFORMER PROVIDED BY CONTROLS CONTRACTOR L.W.T. LBS POUNDS CLW-T US 0.14 in-wg 3 55 °F 102 °F 3 208 V ALUMINUM, FAIL SAFE, SCR ELECTRIC HEAT, MANUFACTER INETGRAL DISCONNET SWITCH, STEP DOWN 24V TRANSFORMER PROVIDED BY CONTROLS CONTRACTOR LBS POUNDS LOAD NOMINAL CONNECTED GAS LOAD TO UNIT, USED
		MIN. MINIMUM MOCP MAXIMUM OVERCURRENT PROTECTION NC MAXIMUM NOISE CRITERIA RATING NPSH NET PRESSURE SUCTION HEAD
Ν		PLAN MARKPLAN MARKNODELFRAME FINISHVOLUME FINISHFRAME VOLUME FUNISHVOLUME FINISHMAXIMU M FHROW (FT)MAXIMU M
		SA2 TITUS OMNI-24 x 24 SUPPLY WHITE GRID No 30 0 0.10 24x24 SQUARE PLAQUE FACE WITH ROUND DUCT CONNECTION SA2 TITUS OMNI-24 x 24 SUPPLY WHITE GRID No 30 0 0.10 24x24 SQUARE PLAQUE FACE WITH ROUND DUCT CONNECTION SHC SERSIBLE HEAT CAPACITY TCC TOTAL COOLING CAPACITY TEMP. TEMPERATURE
		THC TOTAL HEAT CAPACITY WB WET BULB PLAN MARK MADEL FLA MOTOR (HP) NOTES PLAN MARK MANUFACTURER MODEL AIR FLOW (CFM) EST. ESP (IN WG) VOLTAGE PHASE FLA MOTOR (HP) NOTES EF1 COOK 195TCNHBLE14 4,225 2 460 3 8 5 CURB,DM,VFD,EPC,WC AF ALUMINUM FINISH
Μ		AF ALUMINUM FINISH DD DIRECT DRIVE MOTOR DM DISCONNECT MEANS EPC INDUSTRIAL STRENGTH EPOXY POWDER COAT FC PARTS EXPOSED TO AIR STREAM GBD GRAVITY BACKDRAFT DAMPER
		VFD VRIABLE FREQUENCE PROVIDED BY CONT CONTRACTOR. WC ZERO PRESSURE WEATHER CAP. OUTSIDE AIR VENTILATION SCHEDULE
L		CURBINSULATED FULL ROOF CURBDDCDIRECT DIGITAL CONTROL.DSSINGLE POINT MEANS OF DISCONNECTFPROVIDE MERV 8 PRE-FILTER AND MERV 13 FINAL
		DOAS UNIT SEQUENCE OF OPERATION HG PROVIDE WITH HOLDING FRAME. HG HAIL GUARDS FOR CONDENSER COILS. (DOAS-1) LL LL ROOFTOP DEDICATED OUTSIDE AIR UNIT: (CONTRAL VARIABLE DX COOLING, HEAT PUMP HEATING DOWN TO 10°F WITH SECONDARY ELECTRIC HEATY, VARIABLE DX COOLING, HEAT PUMP HEATING DOWN TO 10°F WITH SECONDARY ELECTRIC HEATY, VARIABLE DX COOLING, HEAT PUMP HEATING DISCHARGE TEMPERATURE CONTROL VIA MODULATING HOT GAS REHEAT, FILTER MONITORING, SMOKE CONTROL). PM
		PACKAGED DOAS UNIT SA SUPPLY AIR RESET SCHEDULE TO SHUTDOWN HO CP DOAS UNIT MANUFACTURER SHALL PROVIDE BACNET COMPLIANT CONTROLLER AND ALL PROGRAMMING REQUIRED DOAS UNIT MANUFACTURER SHALL PROVIDE BACNET COMPLIANT CONTROLLER AND ALL PROGRAMMING REQUIRED CD DOAS UNIT MANUFACTURER SHALL PROVIDE BACNET COMPLIANT CONTROLLER AND ALL PROGRAMMING REQUIRED DOAS UNIT MANUFACTURER SHALL PROVIDE BACNET COMPLIANT CONTROLLER AND ALL PROVIDE DOAS UNIT MANUFACTURER'S CONTROLLER AND ALL PROVIDE BACNET COMPLIANT CONTROLLER AND ALL PROVIDE ALL PROGRAMMING DOAS UNIT MANUFACTURER'S CONTROLLER AND SHALL PROVIDE DOAS UNIT MANUFACTURER'S CONTROLLER AND SHALL PROVIDE ALL PROGRAMMING DOAS UNIT MANUFACTURER'S CONTROLLER AND SHALL PROVIDE ALL PROGRAMMING DOAS UNIT MANUFACTURER'S CONTROLLER AND SHALL PROVIDE ALL PROGRAMMING DOAS UNIT MANUFACTURER'S CONTROLLER AND SHALL PROVIDE ALL PROGRAMMING DOAS UNIT MANUFACTURER'S CONTROLLER AND SHALL PROVIDE ALL PROGRAMMING DOAS UNIT MANUFACTURER'S CONTROLLER AND SHALL PROVIDE ALL PROGRAMMING
ĸ		BELOW IN THIS SEQUENCE OF OPERATION. ALL OTHER REQUIRED SENSORS, RELAYS, SWITCHES, ETC. NOT PROVIDED BY MANUFACTURER SHALL BE PROVIDED BY MECHANICAL CONTRACTOR. ROOM PRESSURIZATION CONTROL: UNIT SHALL RUN CONTINUOUSLY TO MAINTAIN NEGATIVE PRESSURE SPACE PER LAB CONTROL SEQUENCE. ONLY SHUTLOWN BY THE MANUAL DISC ONNECT, BUILDING SYSTEM, FIRE AL ADM. OP. UICUL STATIC PRESSURE SWITCH AND ADMEND SYSTEM, FIRE AL ADM. OP. UICUL STATIC PRESSURE SWITCH AND ADMEND SYSTEM, FIRE AL ADM. OP. UICUL STATIC PRESSURE SWITCH AND ADMEND SYSTEM, FIRE AL ADM. OP. UICUL STATIC PRESSURE SWITCH AND ADMEND SYSTEM, FIRE AL ADM. OP. UICUL STATIC PRESSURE SWITCH AND ADMEND SYSTEM, FIRE AL ADM. OP. UICUL STATIC PRESSURE SWITCH AND ADMEND SYSTEM, FIRE AL ADM. OP. UICUL STATIC PRESSURE SWITCH AND ADMEND SYSTEM, FIRE AL ADM. OP. UICUL STATIC PRESSURE SWITCH AND ADMEND SYSTEM, FIRE AL ADM. OP. UICUL STATIC PRESSURE SWITCH AND ADMEND SYSTEM, FIRE AL ADM. OP. UICUL STATIC PRESSURE SWITCH AND ADMEND SYSTEM, FIRE AL ADM. OP. UICUL STATIC PRESSURE SWITCH AND ADMEND SYSTEM, FIRE AL ADM. OP. UICUL STATIC PRESSURE SWITCH AND ADMEND SYSTEM, FIRE AL ADM. OP. UICUL STATIC PRESSURE SWITCH AND ADMEND SYSTEM, FIRE AL ADM. OP. UICUL STATIC PRESSURE SWITCH AND ADMEND SYSTEM, FIRE AL ADM. OP. UICUL STATIC PRESSURE SWITCH AND ADMEND SYSTEM, FIRE AL ADM. OP. UICUL STATIC PRESSURE SWITCH AND ADMEND SYSTEM, FIRE AL ADM. OP. UICUL STATIC PRESSURE SWITCH AND ADMEND SYSTEM, FIRE AL ADM. OP. UICUL STATIC PRESSURE SWITCH AND ADMEND SYSTEM, FIRE AL ADM. OP. UICUL STATIC PRESSURE SWITCH AND ADMEND SYSTEM, FIRE AL ADM. OP. UICUL STATIC PRESSURE SWITCH AND ADMEND SYSTEM, FIRE AL ADM. OP. UICUL STATIC PRESSURE SWITCH AND ADMEND SWI
		OA INTAKE OA INTAKE
J		Discharge temperature shall maintain discharge air temperature cooling / Heating mode 55°F (AdJustable). Variable speed compress / scr heating controls shall maintain discharge temperature. UNOCCUPIED MODE / EXTEND BREAK MODE: UNIT Shall MODULATE FAN SPEED AND OUTSIDE AIR MOTORIZED DAMPER TO MAINTAIN LAB SEQUENCE REQUIREMENTS.
		REQUIREMENTS. SMOKE ACTIVATED FIRE PROTECTION CONTROL: DUCT MOUNTED SMOKE DUCT DETECTORS SHALL BE INSTALLED AS SMOKE ACTIVATED FIRE PROTECTION CONTROL: DUCT MOUNTED SMOKE DUCT DETECTORS SHALL BE INSTALLED AS SHOWN ON THE HVAC AIR FLOW SCHEMATIC TO AUTOMATICALLY SHUT DOWN THE UNIT AND SEND SIGNAL TO THE SHOWN ON THE HVAC AIR FLOW SCHEMATIC TO AUTOMATICALLY SHUT DOWN THE UNIT AND SEND SIGNAL TO THE FIRE ALARM SYSTEM. IF THIS ACTION OCCURS, CONTROLLER SHALL SEND EMERGENCY ALARM SIGNAL TO SYSTEM. UNIT SHALL REQUIRE MANUAL START-UP IF THIS ACTION OCCURS.
н		H T FILTER MONITORING: PROVIDE DIFFERENTIAL PRESSURE SENSOR TO MEASURE PRESSURE ACROSS THE FILTERS. CONTROLLER SHALL SEND ALARM SIGNAL WHEN FILTERS ARE IN NEED OF CHANGING BASED UPON THE DIFFERENTIAL PRESSURE SENSOR SETPOINT (ADJUSTABLE). ALARMS:
		Image: Private of the state of the st
		Point Fan START/ In Suber Annual Fan Start/ Pan Start Femera Supply Humin Supply H
G		LAB REFERENCE LAB REFERENCE
		2 M401 SCALE: NOT TO SCALE
F		M401 SCALL. NOT TO SCALL
E		Image: Duct pressure LAB SEQUENCES Image: Duct pressure Image: Duct pressure Image: Duct pressure
		ACCOMPLISH THE FOLLOWING SEQUENCES FOR LABORATORY SUPPLY AND EXHAUST CONTROL. ACCOMPLISH THE FOLLOWING SEQUENCES FOR LABORATORY SUPPLY AND EXHAUST CONTROL. If the point description Units Itend alarm I
П		STALL BE ADJUST FAN LIGHT WITH VED PROVIDED BY CONTROLS AIRFLOW CORRIDOR LAB CORRIDOR LAB LABORATORY LABORATORY AIRFLOW CONTROLLER LABORATORY AIRFLOW CONTROLLER LABORATORY AIRFLOW CONTROLLER LABORATORY AIRFLOW CONTROLLER LABORATORY AIRFLOW CONTROLLER LABORATORY AIRFLOW CONTROLLER LABORATORY AIRFLOW CONTROLLER LABORATORY AIRFLOW CONTROLLER - LAB EXHAUST FAN SHALL BE CONTROLLED WITH VED PROVIDED BY CONTROLS AIRFLOW CONTROLLER - LAB EXHAUST FAN SHALL MAINTAIN NEGATIVE PRESSURE OF SPACE TO ADJACENT SPACES. - LAB EXHAUST FAN AIRFLOW CFM CONTROLLER - LAB EXHAUST FAN SHALL MONITOR THE FREE AREA IN THE FUME HOOD SASH - SASH POSITION SENSOR SHALL MONITOR THE FREE AREA IN THE FUME HOOD SASH - SASH POSITION SENSOR SHALL MONITOR THE FREE AREA IN THE FUME HOOD SASH - SASH POSITION SENSOR SHALL MONITOR THE FREE AREA IN THE FUME HOOD SASH - SASH POSITION SENSOR SHALL MONITOR THE FREE AREA IN THE FUME HOOD SASH - SASH POSITION SENSOR SHALL MONITOR THE FREE AREA IN THE FUME HOOD SASH - FUME HOOD: - SASH POSITION SENSOR SHALL MONITOR THE FREE AREA IN THE FUME HOOD SASH - FUME HOOD: - SASH POSITION SENSOR SHALL MONITOR THE FREE AREA IN THE FUME HOOD SASH - FUME HOOD SASH - LAB EXHAUST FAN STATUS - FUME HOOD X X X X
		COIL DDC ONTRACTOR INTERFACE DDC DDC ONTRACTOR INTERFACE DDC DDC ONTRACTOR INTERFACE V V
		VHEN THE DIFFERENTIAL PRESSURE ACROSS A FUME EXHAUST VALVE DROPS VHEN THE DIFFERENTIAL PRESSURE ACROSS A FUME EXHAUST VALVE DROPS VHEN THE DIFFERENTIAL PRESSURE, THE FUME HOOD VHEN THE DIFFERENTIAL PRESSURE, THE FUME HOOD </td
C		A V
		SASH SENSOR, COORDINATE TEMPERATURE SETPOINT, SUPPLY AIR VALVE SHALL MAINTAIN CONSTANT AIRFLOW TO MAINTAIN WITH FUME HOOD NEGATIVE SPACE. REQUIREMENTS SETPOINT NOT MET, ELECTRIC REHEAT COIL SHALL MODULATE TO MAINTAIN SPACE SET POINT. NOTE THAT EACH DIAGRAM REPRESENTS ONE UNOCCUPIED: TEMPERATURE SETBACK SHALL DECREASE SUPPLY AIR FLOW TO MEET TEMPERATURE LAB SETUP OF VALVES. UNOCCUPIED: TEMPERATURE SETBACK SHALL DECREASE SUPPLY AIR FLOW TO MEET TEMPERATURE
В		REFER TO DRAWINGS FOR EXACT QUANTITY OF 50% MINIMUM WHILÈ STILL MAINTÁINING NEGATIVE PRESSURE SPACE VERSUS ADJACENT SPACES. VALVE PAIRS AND THEREFORE THE REQUIRED MINIMUM 2 HOURS (ADJUSTABLE) WARM UP REQUIRED TO CATCH SYSTEM BACK UP. NUMBER OF CONTROL POINTS AND MINIMUM 2 HOURS (ADJUSTABLE) WARM UP REQUIRED TO CATCH SYSTEM BACK UP. CONTROLLERS. EXTENDED BREAK UNOCCUPIED: FUME EXHAUST HOODS CAN BE DECREASED TO MAINTAIN 60 FPM. ACROSS SASH AND AIR VALVES SHALL SIMULTANEOUSLY MODULATE TO MAINTAIN 60 FPM. EXHAUST CAN DECREASE TO 50% MINIMUM WHILE MAINTAINING NEGATIVE PRESSURE IN SPACE VERSUS
		SUPPLY AIR VALVE. SUPPLY AIR VALVE SHALL MAINTAIN SPACE TEMPERATURE SETPOINT OF SETBACK TEMPERATURE.
Α		1 LAB CONTROL SEQUENCE M401 SCALE: NOT TO SCALE
1 2	3 4 5	6 7 8 9 10 11 12 13 14 15 16 MECHANIC

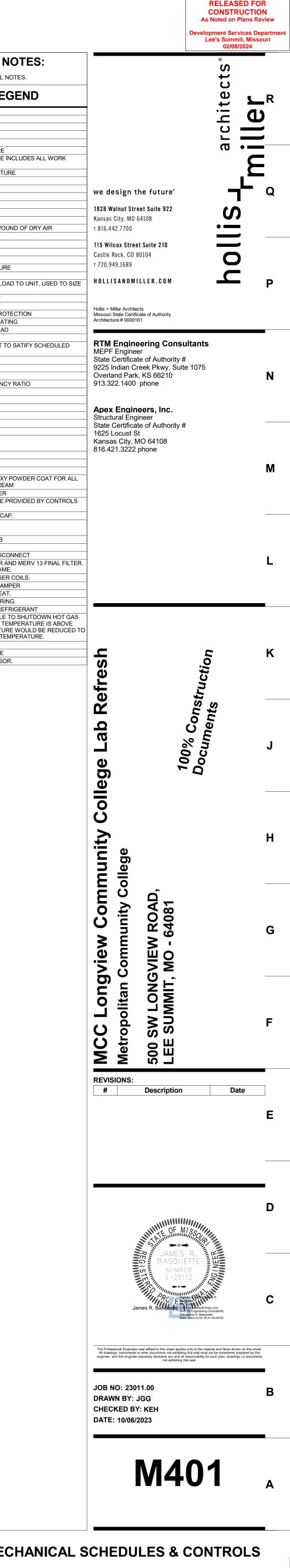
7	,	8		9			10		1 [.]	1	1	2		13		14	15	16	17	
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																			REFER	TO SHEET ME100 FOR GENERAL NOTE
Γ	OUTSID	E AIR	VENTIL	ATIC	N UN		SCH	ED	ULE											SCHEDULE LEGE
-			OUTDOOR AIR FLOW		PPLY FAN			OOLING D		НС	T GAS REHEAT	GA	AS HEATING		ELECTRIC	CAL DATA			ABBREVIAT	TED SCHEDULE HEADINGS
				SUPPLY	EST		E.A.T. E.A	.T. MIN	MIN	E.A.T. E.A.T	. APPROXIM	MATE GAS							A	AMPS
	PLAN MARK MANUFACTURE		MAX (CFM)	AIR FLOW (CFM)			DB W	B SCO	; TCC H) (BTU/H) L.A.T.	DB WB (°F) (°F)			UTPUT EFFICIEN BTU/H) (%)	ICY VOLTAGE	PHASE F	FLA MCA (A) NC	DTES		CAP	CAPACITY
	DOAS1 VALENT	VX-212-30I-M-E1	3,750	3750	$\frac{1}{2}$				00 326,700 54.2 °F			, , , ,	, , ,	460			D,CURB,DDC,DS,F,HG,LL,MHGR,PM,R410A	SA VED SE VSC	CFM	
L	DONOT	VX 212 001 M ET	0,700	0/00		4.0	100.0 10	.1 100,4	020,100 04.2 1	04.2 04.1	70.0 211,00		24,000 01	400	Ũ		5,001(b,bb0,b0,i,i10,22,iiii10(,i iii,i410)		DB E.A.T.	DRY BULB ENTERING AIR TEMPERATURE
																			E.S.P.	EXTERNAL STATIC PRESSURE INCLU
																				EXTERNAL TO UNIT
-																			E.W.T.	ENTERING WATER TEMPERATURE
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																			EST.	ESTIMATED
		PRIMARY AIR FLC	DW					ELECT	RIC REHEAT COIL										FLA FPM	FULL LOAD AMPS
MANUFACTURER /	MODEL	MAX (CFM)	MIN (CFM)	VALVE SIZE	E APD (W.C)	кw	E.A.T.	L.A.T.	HEATER PHASE	HEATER VOLTAGE						NOTES			GPH	GALLONS PER HOUR
ROOM CONTROL - CLV-	-	725 CFM	440 CFM		0.11 in-wg		0°F	0 °F								TROLS CONTRACTOR			GPM	GALLONS PER MINUTE
ROOM CONTROL - CLV		725 CFM	440 CFM	8	0.11 in-wg		0 °F	0 °F	1	0 V	· · · · · · · · · · · · · · · · · · ·	,				TROLS CONTRACTOR			GR/LB	GRAINS OF MOISTURE PER POUND
ROOM CONTROL - CLV-		725 CFM	440 CFM	8	0.11 in-wg		0 °F	0 °F	1	0 V	,	,				TROLS CONTRACTOR			HP	HORSEPOWER
CAL ROOM CONTROL -	CLV-ST114-EC-FS	1,850 CFM	2735 CFM	14	0.24 in-wg	0	0 °F	0 °F	1	0 V	316 STAINLESS, F	AIL SAFE, STEP D	OWN 24V TRANS	FORMER PROV	IDED BY CON	TROLS CONTRACTOR			IN	INCH
CAL ROOM CONTROL -	CLV-ST106-EC-FS	200 CFM	200 CFM	6	0.08 in-wg	0	0 °F	0 °F	1	0 V	316 STAINLESS, F	AIL SAFE, STEP D	OWN 24V TRANS	FORMER PROV	IDED BY CON	TROLS CONTRACTOR			ISP	INLET STATIC PRESSURE
CAL ROOM CONTROL -	CLV-SP116-A0-FS	3,000 CFM	3000 CFM	16	0.19 in-wg	40	55 °F	95 °F	3	480 V	ALUMINUM, FAIL	SAFE, SCR ELECT	RIC HEAT, MANU	FACTER INETGI	RAL DISCONNI	ET SWITCH, STEP DOWN 24'	V TRANSFORMER PROVIDED BY CONTRO	OLS CONTRACTOR	L.A.T.	LEAVING AIR TEMPERATURE
CAL ROOM CONTROL -		400 CFM	400 CFM	6	0.14 in-wg	6	55 °F	102 °F	3	208 V	,	,	,			,	V TRANSFORMER PROVIDED BY CONTRO		L.W.T.	LEAVING WATER TEMPERATURE
CAL ROOM CONTROL -	CLV-ST106-EC-FS	200 CFM	200 CFM	6	0.14 in-wg	3	55 °F	102 °F	3	208 V	ALUMINUM, FAIL	SAFE, SCR ELECT	RIC HEAT, MANU	FACTER INETGI	RAL DISCONNI	ET SWITCH, STEP DOWN 24	V TRANSFORMER PROVIDED BY CONTRO	OLS CONTRACTOR	LBS	POUNDS
																			LOAD	NOMINAL CONNECTED GAS LOAD TO GAS PIPING
																			MCA	MINIMUM CIRCUIT AMPACITY
																			MIN.	MINIMUM
																			MOCP	MAXIMUM OVERCURRENT PROTECT
						DII		DC	CIGTE	$D \Lambda N$	D DIFF		D CCU						NC	MAXIMUM NOISE CRITERIA RATING
					JG	RIL	LC,	RE	GIJIE			USER							NPSH	NET PRESSURE SUCTION HEAD
													MINIMUM	MAXIMUM					OA	OUTSIDE AIR
					PLA									THROW	ΜΑΧΙΜUΜ Δ				OUTPUT	MINIMUM REQUIRED OUTPUT TO SA HEATING REQUIREMENTS
					MAR		UFACTURE	-	DEL APPLICAT			AMPER NC	(FT)	(FT)	(IN WG)	NOTES			PPH	POUNDS PER HOUR
					EA1		TITUS		24 x 24 EXHAUS			No 30	0	0	0.10		ATED FACE WITH ROUND DUCT CONNECT		PSI	POUNDS PER HOUR
					RA		TITUS		24 x 24 RETUR EC-AL SUPPL			No 30	0	0	0.10		ATED FACE WITH ROUND DUCT CONNECT CE - ALUMINUM BACKPAN, HIGH VOLUME		RPM	REVOLUTIONS PER MINUTE
					SA1 SA2		TITUS		EC-AL SUPPL			No 30 No 30	5	18	0.10		CE - ALUMINUM BACKPAN, HIGH VOLUME FACE WITH ROUND DUCT CONNECTION		SEER	SEASONAL ENERGY EFFICIENCY RA
					SA2		11103	OWIN	-24 X 24 30FFL		GRID	NU 30	0	0	0.10	24X24 SQUARE FLAQUE F	FACE WITH ROUND DUCT CONNECTION		SHC	SENSIBLE HEAT CAPACITY
																			TCC	TOTAL COOLING CAPACITY
																			TEMP.	TEMPERATURE
													CUL						THC	TOTAL HEAT CAPACITY
												FAN	JULI						WB	WET BULB
												PLAN			AIR FLOW				WPD	WATER PRESSURE DROP
												MARK MANUF	ACTURER	MODEL		EST. ESP (IN WG) VOLTAG			EVUNIOT	AN SCHEDULE
												EF1 C	OOK 195	TCNHBLE14	4,225	2 460	3 8 5 0	CURB,DM,VFD,EPC,WC	AF	
																			DD	DIRECT DRIVE MOTOR
																			DM	DISCONNECT MEANS
																			EPC	INDUSTRIAL STRENGTH EPOXY POW
																				PARTS EXPOSED TO AIR STREAM

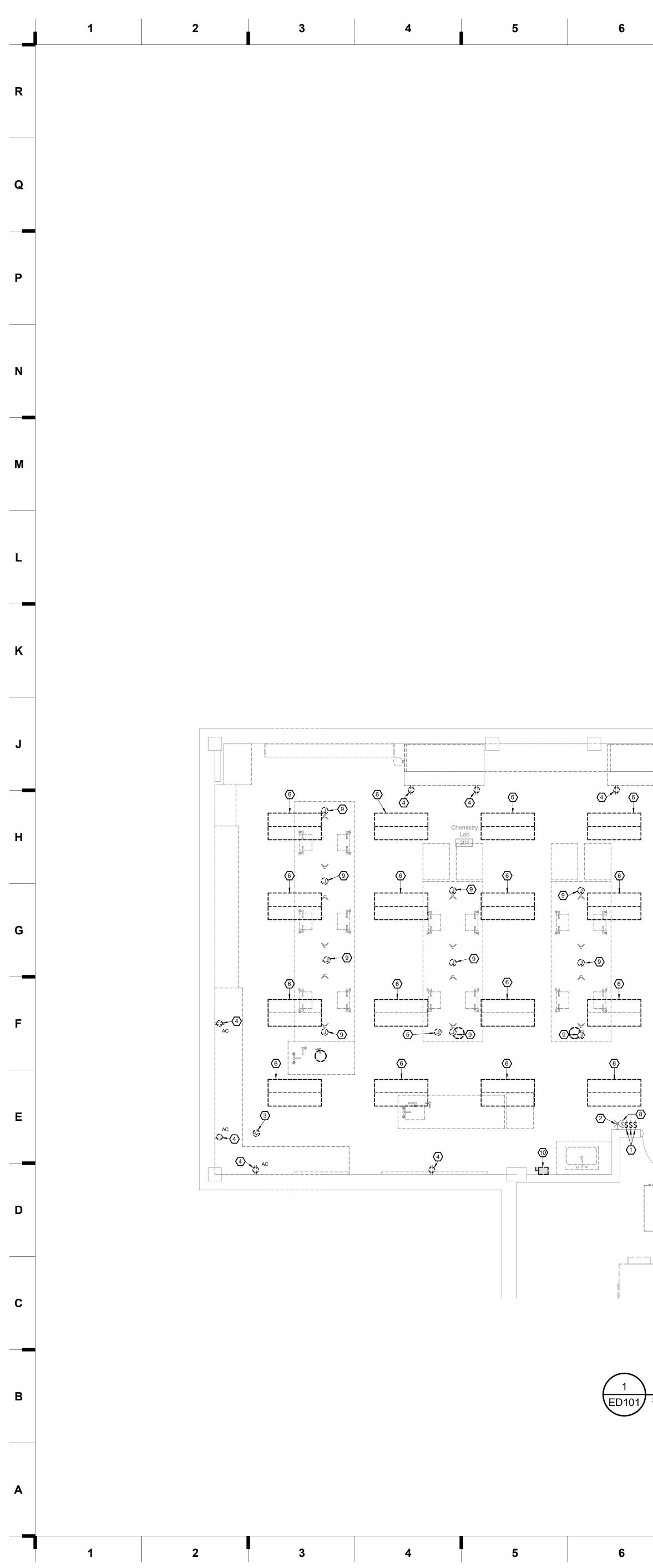
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	OUTSID		/FNTII			T SCH	FDUI	F												SCHEDULE LEGI
					PLY FAN				HOT GA	S REHEAT	GAS	HEATING		ELECTRICAL	DATA				ABBREVIATE	D SCHEDULE HEADINGS
				SUPPLY	EST.	E.A.T. E.A	.T. MIN M		A.T. E.A.T.	APPROXIM	ATE GAS								A	AMPS
	LAN ARK MANUFACTUREF		MAX (CFM)	AIR FLOW M (CFM)	IOTOR ESP (HP) (IN WG)	MIN. DB W EER (°F) (°I			DB WB L.# °F) (°F) (°	A.T. CAPACIT F) (BTU/H)		PUT EFFICIENCY I/H) (%)			MOCE				CAP	CAPACITY
	ARK MANUFACTURER	X MODEL VX-212-30I-M-E1	3,750	3750	(IIV VVG) 2 1		.7 199,400 326			5.0 211.300	· / ·	, , ,	VOLTAGE F 460	PHASE FLA 3 52	MCA (A) 76 100		DC,DS,F,HG,LL,MHGR,PM,R410		CFM	CUBIC FEET PER MINUTE
	AGT VALLINT	VX-212-301-101-L1	3,730	5750	2 1	4.9 105.0 79	.7 199,400 520	700 34.2 1 3	4.2 04.1 10	211,500	400,000 324,	000 01	400	5 52	70 100		100,00,1 ,110,22,1011010,1 W,10410		DB E.A.T.	DRY BULB ENTERING AIR TEMPERATURE
																			E.S.P.	EXTERNAL STATIC PRESSURE INC
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																			E.W.T.	ENTERING WATER TEMPERATURE
																			EER	ENERGY EFFICIENCY RATIO
																			EST.	ESTIMATED
		PRIMARY AIR FLOW	V				ELECTRIC REI												FLA FPM	FULL LOAD AMPS FEET PER MINUTE
URER / MO		MAX (CFM)	MIN (CFM)	VALVE SIZE	APD (W.C)	KW E.A.T.	L.A.T. HEAT		HEATER VOLTAGE						NOTES				GPH	GALLONS PER HOUR
	108-S0-FS-FHCVSS	725 CFM	440 CFM	8	0.11 in-wg	0 0°F	0 °F			6 STAINI ESS EA	IL SAFE. STEP DO	VN 24V TRANSFOR							GPM	GALLONS PER MINUTE
	108-S0-FS-FHCVSS	725 CFM	440 CFM	8	0.11 in-wg	0 0°F	0 °F	1		- ,	VIL SAFE, STEP DO								GR/LB	GRAINS OF MOISTURE PER POUND
	108-S0-FS-FHCVSS	725 CFM	440 CFM	8	0.11 in-wg	0 0°F	0 °F	1		,	AL SAFE, STEP DO								HP	HORSEPOWER
NTROL - CL	V-ST114-EC-FS	1,850 CFM	2735 CFM	14	0.24 in-wg	0 0 °F	0 °F	1	0 V 31	6 STAINLESS, FA	IL SAFE, STEP DO	VN 24V TRANSFOR	MER PROVIDE	ED BY CONTRO	OLS CONTRACTOR				IN	INCH
NTROL - CL	V-ST106-EC-FS	200 CFM	200 CFM	6	0.08 in-wg	0 0 °F	0 °F	1	-	- ,	IL SAFE, STEP DO	-	-						ISP	INLET STATIC PRESSURE
	V-SP116-A0-FS	3,000 CFM	3000 CFM	16	0.19 in-wg	40 55 °F	95 °F	3	480 V AL	UMINUM, FAIL S	AFE, SCR ELECTRI	CHEAT, MANUFAC	TER INETGRAI	DISCONNET	SWITCH, STEP DOW	VN 24V TRANS	FORMER PROVIDED BY CONTR	OLS CONTRACTOR	L.A.T.	LEAVING AIR TEMPERATURE
	V-ST106-EC-FS	400 CFM	400 CFM	6	0.14 in-wg	6 55 °F	102 °F	3		,	,	,			,		FORMER PROVIDED BY CONTR		L.W.T.	LEAVING WATER TEMPERATURE
NTROL - CL	V-ST106-EC-FS	200 CFM	200 CFM	6	0.14 in-wg	3 55 °F	102 °F	3	208 V AL	UMINUM, FAIL S	AFE, SCR ELECTRI	CHEAT, MANUFAC	TER INETGRAL		SWITCH, STEP DOW	VN 24V TRANS	FORMER PROVIDED BY CONTR	OLS CONTRACTOR	LBS	POUNDS NOMINAL CONNECTED GAS LOAD
																			LOAD	GAS PIPING
																			MCA	MINIMUM CIRCUIT AMPACITY
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																			MOCP	MAXIMUM OVERCURRENT PROTEC
						RILLE,	REGI	STER		DIFF	IISFR	SCHE		F					NC	MAXIMUM NOISE CRITERIA RATING
													DUL						NPSH	NET PRESSURE SUCTION HEAD
																			OA OUTPUT	OUTSIDE AIR MINIMUM REQUIRED OUTPUT TO S
					PLAN MARK	MANUFACTURE		APPLICATION	FINISH		UME MAXIMUM	THROW (FT)	THROW N (FT)	IAXIMUM ΔP (IN WG)	NOTES					HEATING REQUIREMENTS
					EA1	TITUS	PAR-24 x 24	EXHAUST	WHITE		No 30		0				E WITH ROUND DUCT CONNEC	TION	PPH	POUNDS PER HOUR
					RA1	TITUS	PAR-24 x 24	RETURN	WHITE		No 30		0				E WITH ROUND DUCT CONNEC		PSI	POUNDS PER SQUARE INCH
					SA1	TITUS	TRI-TEC-AL	SUPPLY	WHITE		No 30	5	18			-	MINUM BACKPAN, HIGH VOLUM		RPM	REVOLUTIONS PER MINUTE
					SA2	TITUS	OMNI-24 x 24		WHITE	-	No 30	0	0				TH ROUND DUCT CONNECTION		SEER	SEASONAL ENERGY EFFICIENCY R
								•	· · ·	•	•								SHC	SENSIBLE HEAT CAPACITY
																			TCC	
										Г									TEMP.	
											FAN S	SCHE) F	-					THC WB	TOTAL HEAT CAPACITY WET BULB
																			WPD	WATER PRESSURE DROP
										Γ	PLAN			R FLOW						
										ŀ	MARK MANUFAG			· · · ·	T. ESP (IN WG) VO		ASE FLA MOTOR (HP)		EXHAUST FA	N SCHEDULE
										L	EF1 COC	νκ [1951CN	HBLE14	4,225	Z	460	3 <u>8</u> 5	CURB,DM,VFD,EPC,WC	ΔF	ALUMINUM FINISH
																			DD	DIRECT DRIVE MOTOR
																			DD DM EPC	







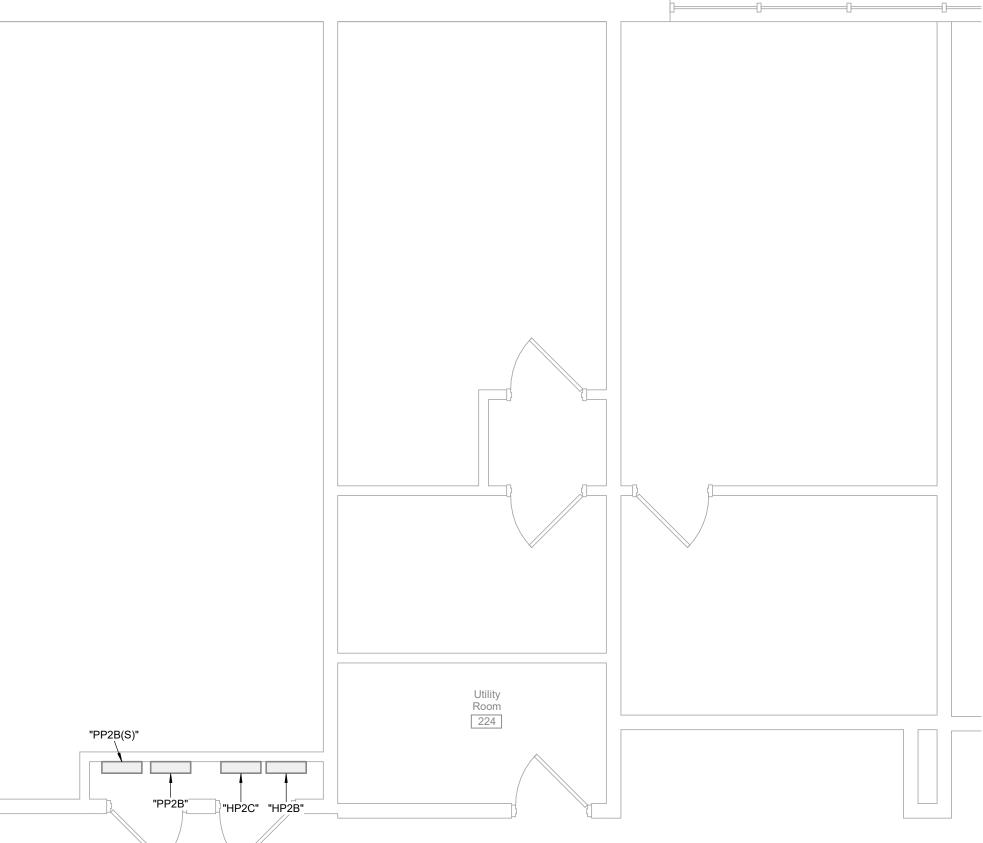


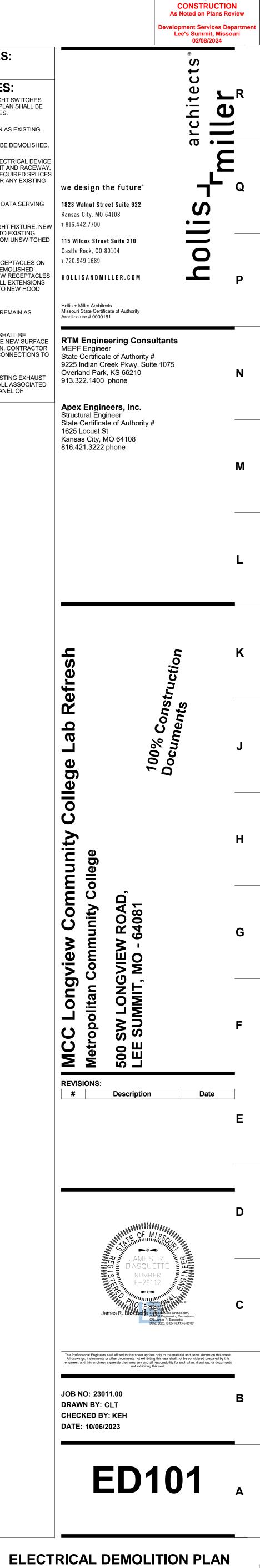


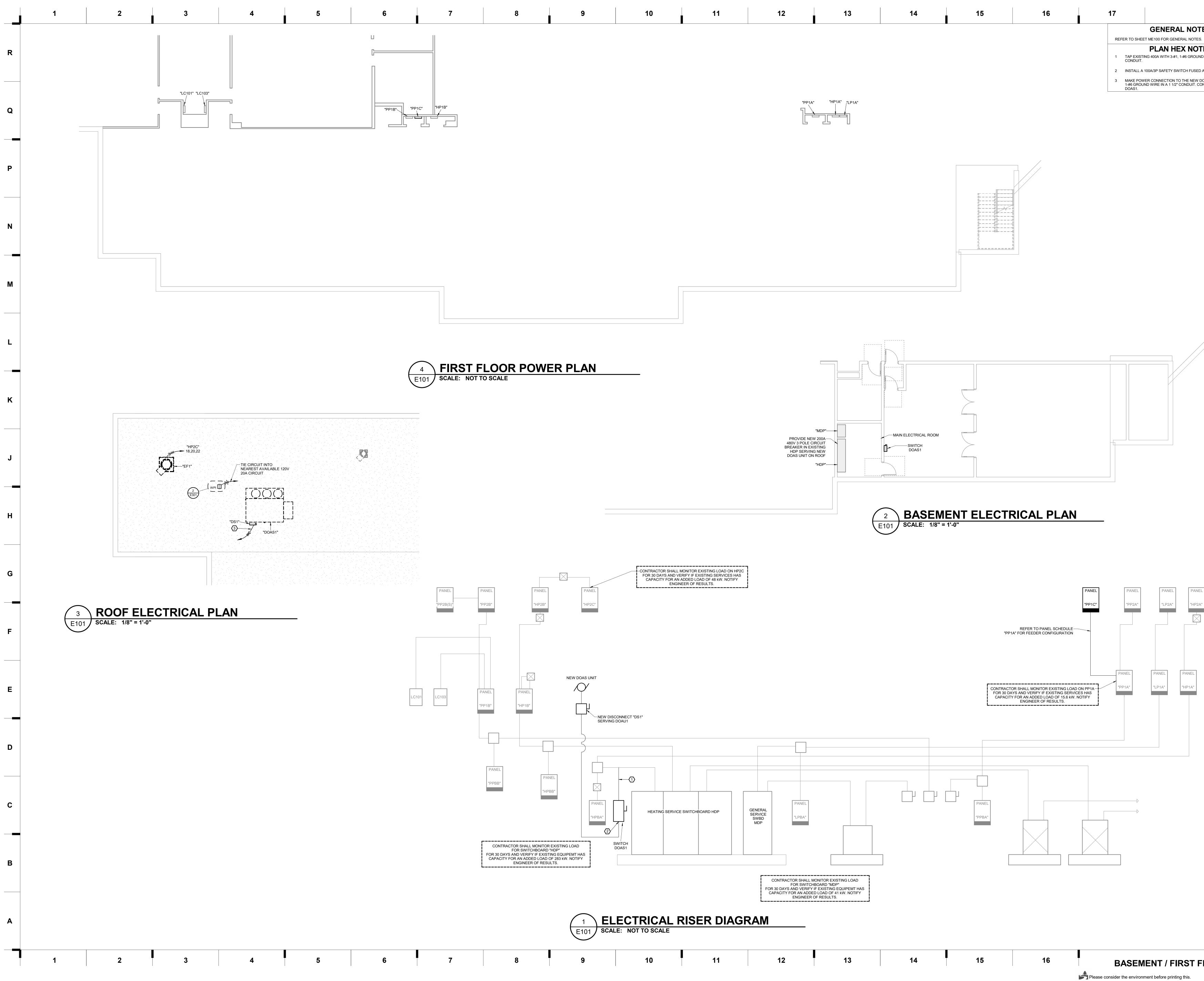
6	7 8	9	10	11	12	13	14	15	16	17	
										REFER TO SH	GENERAL NOTES: HEET ME 100 FOR GENERAL NOTES. PLAN HEX NOTES:
											ACTOR SHALL DEMOLISH EXISTING LIGHT SWITG GHT SWITCHES SHOWN ON LIGHTING PLAN SHA ED IN PLACE OF DEMOLISHED SWITCHES. IG FIRE ALARM STROBE SHALL REMAIN AS EXIS
										4 CONTR/ INCLUD	IG LIGHTING CONTROL DEVICE SHALL BE DEMO ACTOR SHALL DEMOLISH EXISTING ELECTRICAL ING ALL ASSOCIATED WIRING, CONDUIT AND RA DNTRACTOR SHALL ALSO MAKE ANY REQUIRED DNNECTIONS TO MAINTAIN CIRCUIT FOR ANY EXI
										5 CONTR	DNNECTIONS TO MAINTAIN CIRCUIT FOR ANY EXI IAIN DOWNSTREAM DEVICES. ACTOR SHALL DEMOLISH POWER AND DATA SEF IG PROJECTOR.
										LIGHT F CIRCUI PORTIC	ACTOR SHALL DEMOLISH EXISTING LIGHT FIXTU FIXTURE AND CONTROLS SHALL TIE INTO EXISTII T SERVING DEMOLISHED FIXTURES FROM UNSW IN OF EXISTING CIRCUIT.
										DEMOLI RECEP ON NEV AND SP	ACTOR SHALL DEMOLISH EXISTING RECEPTACL ISHED LAB HOOD. CIRCUIT SERVING DEMOLISHE TACLES SHALL REMAIN AND SERVE NEW RECEP V HOOD. CONTRACTOR SHALL MAKE ALL EXTEN 'LICES TO EXTEND EXISTING CIRCUIT TO NEW H TACLES.
										9 EXISTIN	IG EMERGENCY GAS SHUTOFF SHALL REMAIN A IG. IG SURFACE MOUNTED RECEPTACLE SHALL BE ISHED. EXISTING CIRCUIT SHALL SERVE NEW SL
										10 EXISTIN	TACLE SHOWN ON IMPROVEMENT PLAN. CONTR MAKE ALL NECESSARY SPLICES AND CONNECTION O CIRCUIT TO NEW DEVICE LOCATION. IG DISCONNECT SWITCH SERVING EXISTING EXI A SHALL BE DEMOLISHED INCLUDING ALL ASSOC
										WIRING ORIGIN	, CONDUIT, RACEWAY ETC BACK TO PANEL OF
€ (4) ¹ -1											
	Stor/Prep										
> 											
j											
>											
	Instru/ Comp Room 201B										
								Utility			
J \$\$\$\$ 1	Balance Room 201A					"PP2B(S)"		Utility Room 224			
-==== 						 "PP2B"	"HP2C" "HP2B"				
						\sim	~				

1 ELECTRICAL DEMOLITION PLAN - LEVEL 2 ED101 SCALE: 1/4" = 1'-0"

7 8 9 10 11	12

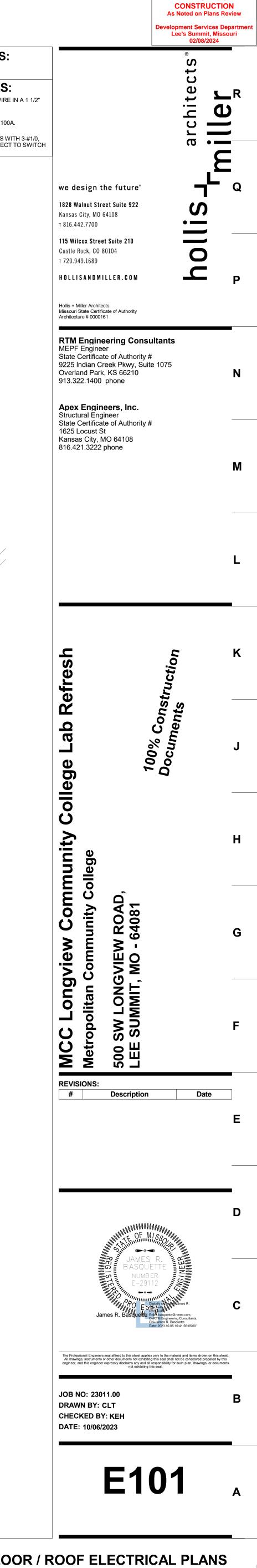


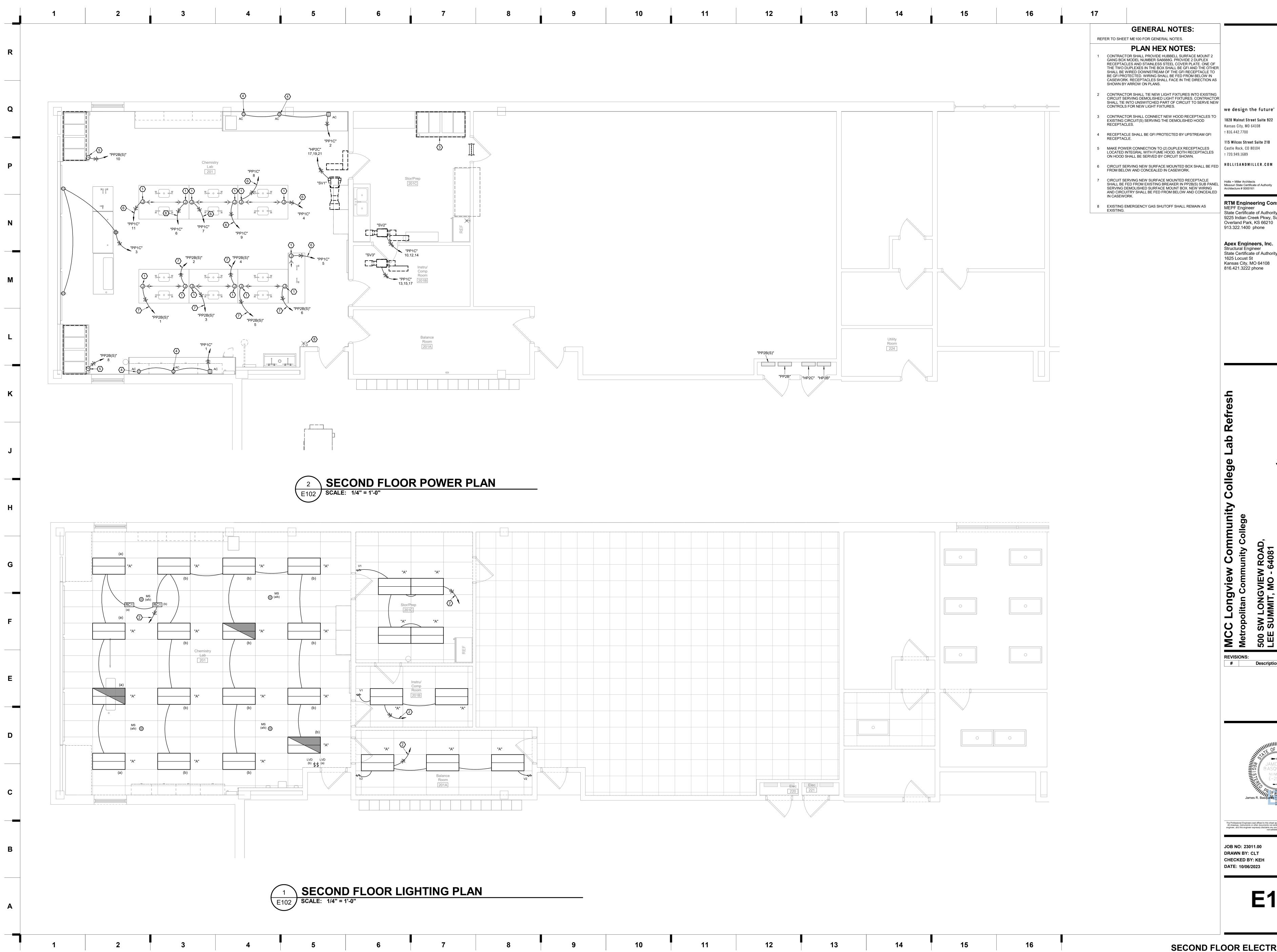




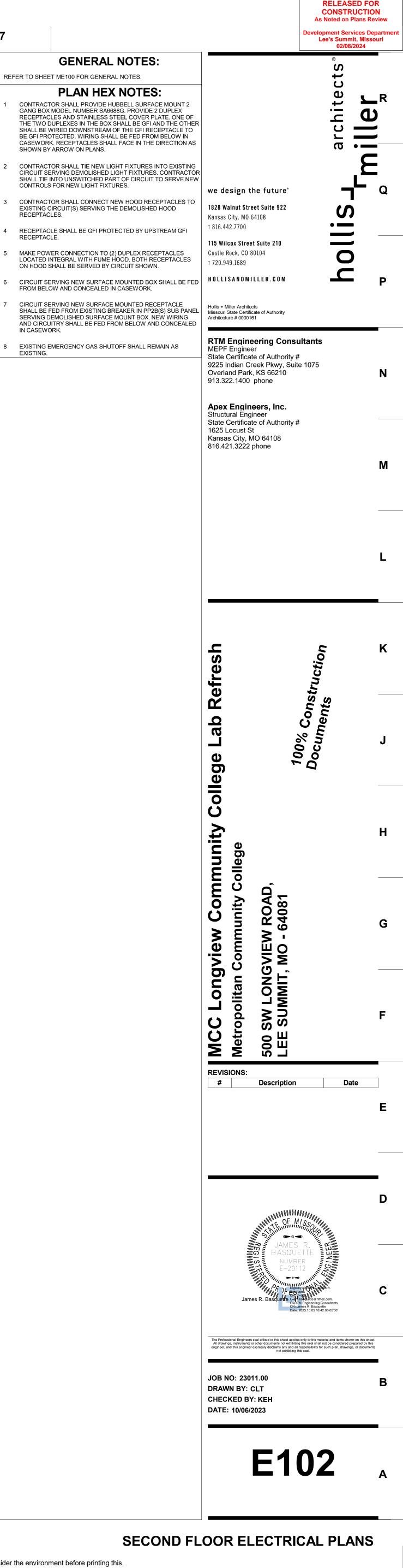
	13		14		15		16		17	ER TO SHEE	GENERAL I	
"PP1A" "F	IP1A" "LP1A"								1 2 3	CONDUIT.	PLAN HEX NG 400A WITH 3-#1, 1-#6 100A/3P SAFETY SWITCH ER CONNECTION TO THE ND WIRE IN A 1 1/2" CONE	GROUND WIRE IN A FUSED AT 100A.
"MDP"			IAIN ELECTRICAL RO	ОМ								
		2 E101	BASE SCALE: 1	MENT /8" = 1'-0"	ELEC	TRICA	AL PLA	<u>N</u>	_			
						REFER "PP1A" FOR FEE	TO PANEL SCHED EDER CONFIGURAT	PANEL "PP1C" ULE		PANEL "PP2A"	PANEL "LP2A"	PANEL "HP2A"

13	14	15	16	₽ 	BASEMENT / FIRST FLOO
				*	

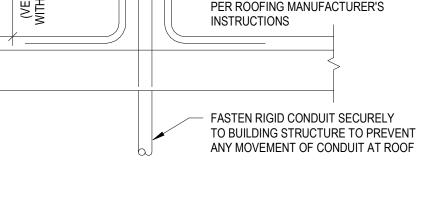




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	1 2 3 4 5 6 7	8 9 10 11 12 13 14 15 16 17
R	EXISTING CIRCUIT BREAKER PANELBOARD SCHEDULE	GENERAL NOTES: REFER TO SHEET ME 100 FOR GENERAL NOTES. PLAN HEX NOTES:
	PANEL NAME: "PP1A"LOCATION: LEVEL 1VOLTAGE: 120/208V, 3Ph, 4WMAIN TYPE: MCB"PP1A"FED BY: EXISTINGENCLOSURE: WESTINGHOUSEBUS RATING (A): 225MOUNTING: SURFACEMANUFACTURER: WESTINGHOUSEMCB RATING (A): 225	PANEL NAME:LOCATION: LEVEL 2VOLTAGE: 120/208V, 3Ph, 4WMAIN TYPE: EXISTING"PP2B(S)"FED BY: PP2BENCLOSURE: WESTINGHOUSEBUS RATING (A): EXISTINGMOUNTING: SURFACEMANUFACTURER: WESTINGHOUSEMCB RATING (A): EXISTING
Q	Image: construct of the second of t	Image: Normal and the constraint of the con
	23 EXISTING LOAD 20 1 0 0 1 20 EXISTING LOAD 24 25 EXISTING LOAD 0 0 1 20 EXISTING LOAD 24 27 EXISTING LOAD 0 0 0 0 1 20 EXISTING LOAD 26 29 SPARE 20 1 0 0 0 1 20 EXISTING LOAD 28 29 SPARE 20 1 0 0 0 1 20 EXISTING LOAD 28 21 SPACE 0 0 1 20 E	23 EXISTING LOAD 0 0 EXISTING LOAD 24 CONNECTED PHASE LOAD 5760 VA 3840 VA 3840 VA A A CALCULATED PANEL AMPS: CALCULATED PANEL AMPS: *PHASE DIVERSIFIED LOAD 5760 VA 5760 VA 3840 VA A A CALCULATED PANEL AMPS: CALCULATED PANEL AMPS: *PHASE DIVERSIFIED LOAD 5760 VA 5760 VA 32 A A 50 A 32 A FOIVERSIFIED LOADS CALCULATED PER THE NATIONAL ELECTRIC CODE.) NOTES/ACCESSORIES:
N	37 PP1C 4#1, #8G, 1-1/2" 0.85% 100 3 7920 (a) (a) <th>TOTAL CONNECTED LOAD: 15360 VA TOTAL DIVERSIFIED LOAD: 15360 VA CONTROLLING LOAD: N/A</th>	TOTAL CONNECTED LOAD: 15360 VA TOTAL DIVERSIFIED LOAD: 15360 VA CONTROLLING LOAD: N/A
	*PHASE DIVERSIFIED LOAD 7920 VA 7920 VA 8760 VA 8760 VA 73 A *PHASE DIVERSIFIED AMPS 66 A 66 A 73 A 73 A WOTES/ACCESSORIES: VICESSORIES: VICESSORIES: PANEL TOTALS	EXISTING CIRCUIT BREAKER PANELBOARD SCHEDULE
Μ	1. BOLDED AND UNDERLINED CCT NUMBER INDICATED NEW CIRCUIT BREAKER. TOTAL CONNECTED LOAD: 24600 VA TOTAL DIVERSIFIED LOAD: 24600 VA 24600 VA CONTROLLING LOAD: N/A N/A	PANEL NAME:LOCATION: LEVEL 2VOLTAGE: 480/277V, 3Ph, 4WMAIN TYPE: MLO"HP2C"FED BY:ENCLOSURE: WESTINGHOUSEBUS RATING (A): 100MOUNTING: SURFACEMANUFACTURER: WESTINGHOUSEMCB RATING (A): 100Location:PANEL TYPE: WESTINGHOUSEMIN. AIC RATING (A): EXISTING
	CIRCUIT BREAKER PANELBOARD SCHEDULE	Kr LOAD DESCRIPTION CIRCUIT CONFIGURATION VD% C V
L	PANEL NAME: LOCATION: VOLTAGE: 120/208V, 3Ph, 4W MAIN TYPE: MLO "PP1C" FED BY: "PP1A" ENCLOSURE: NEMA 1 BUS RATING (A): 100 MOUNTING: SURFACE MANUFACTURER: SQUARE D MCB RATING (A): N/A PANEL TYPE: NQ MIN. AIC RATING (A): 10000 A	3 </th
K	CKT LOAD DESCRIPTION CIRCUIT CONFIGURATION VD% CB P TYPE F F CB VD% CB P CKT 1 CLASS 201 AC RECEPT 2#12, #12G, 3/4" 1.40% 20 1 540	15 EXISTING LOAD 30 1 0
	19SPACE112021SPACE11112223SPACE1112425SPACE1112427SPACE111SPACE2429SPACE1112429SPACE11112429SPACE11112420SPACE11112420SPACE11111111121SPACE1111111111111111111111111111111111 <th>Image: Notestified breastified brea</th>	Image: Notestified breastified brea
U	CONNECTED PHASE LOAD 7920 VA 8760 VA 8760 VA CALCULATED PANEL AMPS: *PHASE DIVERSIFIED LOAD 7920 VA 7920 VA 8760 VA 8760 VA CALCULATED PANEL AMPS: *PHASE DIVERSIFIED AMPS 66 A 66 A 73 A 73 A 73 A	LIGHTING DEVICE SCHEDULE
н	NOTES/ACCESSORIES: PANEL TOTALS 1. PROVIDE BLANK SPACE COVER WHERE "SPACE" IS SHOWN ON SCHEDULE TOTAL CONNECTED LOAD: 24600 VA TOTAL DIVERSIFIED LOAD: 24600 VA 24600 VA CONTROLLING LOAD: N/A N/A	PLAN MARKMOUNTING TYPEMANUFACTURERMODELFINISHNOTESMSCILINGnLIGHTnCM PDT-9-RJBWHITELOW VOLTAGE DUAL TECH CEILING SMALL MOUNTION OCCUPANCY SENSOR.MSCILINGnLIGHTnPP16-D-EFP-SA1 ZONE 0-10V DIMMING ROOM CONTROLLER PROGRAMMED TO MANUAL ON / AUTO OFF AFTER 20 MIN.LVDWALLnLIGHTnPODMA-DX-WHWHITELOW VOLTAGE 3 BUTTON DIMMING WALL SWITCH. 1. ON/OFF, 2. RAISE, 3. LOWER.V1WALLSENSOR SWITCHWSXA-PDT-0-SAWHITEWALL MOUNTED LINE VOLTAGE OCCUPANCY DIMMING SWITCH PROGRAMMED TO MANUAL ON / AUTO OFF AFTER 20 MIN.V2WALLSENSOR SWITCHWSXA MWO-PDT-D-SAWHITEWALL MOUNTED LINE VOLTAGE OCCUPANCY DIMMING SWITCH PROGRAMMED TO MANUAL ON / AUTO OFF AFTER 20 MIN.V2WALLSENSOR SWITCHWSXA MWO-PDT-D-SAWHITEWALL MOUNTED LINE VOLTAGE OCCUPANCY DIMMING SWITCH PROGRAMMED TO MANUAL ON / AUTO OFF AFTER 20 MIN.V2WALLSENSOR SWITCHWSXA MWO-PDT-D-SAWHITESWITCH SHALL BIE COMPATIBLE FOR 3-WAY APPLICATIONS.
		LUMINAIRE SCHEDULE
•		PLAN MARKMANUFACTURERMODELMOUNTING TYPEFINISHSOURCE TYPELUMENSCOLOR TEMP (K)CRIVOLTAGELOAD (VA)DESCRIPTIONAMETALUX24EN-LD2-54-UNV-L840-CDRECESSEDWHITELED5,40040008027743RECESSED 2X4 LED TROFFER WITH UNIVERSAL DRIVER. WHERE EMERGENCY FIXTURE IS SHOWN ON PLANS. PROVIDE METALUX OPTION EL10WSD 10W EMERGENCY INTEGRAL BATTERY PACK.
G		DISCONNECT SCHEDULEPLANLOADSWITCHFUSEENCLOSUREMARKEQUIPMENT SERVEDVOLTAGEDUTYAMPPOLESAMPTYPENOTESDS1DOAU1480HD2003200LPN-RKNEMA 3RIdDs#(EQUIPMENT SERVED)480HD2003200LPN-RKNEMA 3R
F		
E		120 OR 277 VOLT ROOM CONTROLLER LOCATED ACCESSIBLE ABOVE THE CEILING . PROVIDE VINSWITCHED SENSE LINE NORMAL CIRCUIT ROOM CONTROLLER LOCATED ACCESSIBLE ABOVE THE CEILING . PROVIDE TO EM. BATTERY H N DEVICE INDICATED IN ROOM CONTROLLER SCHEDULE.
D	TYPE 'FS' SINGLE GANG CAST ALUMINUM BOX FOR DUPLEX RECEPTACLE, OR 2 GANG BOX FOR FOUR-PLEX RECEPTACLE	ADDITIONAL ROOM CONTROLLERS AS NOTED ON THE PLANS CABLES ROUTED BETWEEN CONTROLLERS AS REQUIRED. LIMRJ CABLES WITH RJ45 CONNECTIONS BETWEEN ROOM CONTROLLER AND OCCUPANCY/VACANCY SENSORS. AND BETWEEN ROOM CONTROLLER AND SWITCHES (TYPICAL)
	LOCKNUT 1" RIGID GALVANIZED CONDUIT PATE STEPPED PVC PIPE BOOT WITH STAINLESS STEEL GEAR CLAMPS PATE SPUN ALUMINUM PIPE	LIGHTING FIXTURES(S) DAYLIGHTING SENSORS PER THE PLANS. REFER TO DAYLIGHTING SENSORS PER THE PLANS. REFER TO



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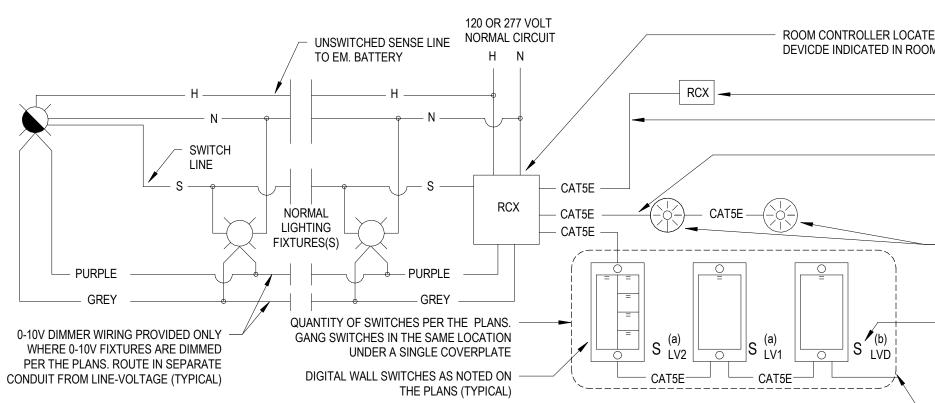
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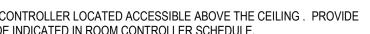
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NOTES: PROGRAM ROOM CONTROLLER TO MEET CONTROL SEQUENCE FOR ZONES INDICATED ON PLANS / LIGHTING DEVICE SCHEDULE. ROOM CONTROLLER, LOW VOLTAGE SWITCHES, OCCUPANCY AND VACANCY SENSORS SHALL ALL BE OF THE SAME MANUFACTURER. nLIGHT IS BASIS OF

3. WIRING DIAGRAM SHOWN IS SCHEMATIC. INSTALL PER THE MANUFACTURER'S REQUIREMENTS - VERIFY ALL WIRING REQUIREMENTS PRIOR TO ROUGH-IN.

DESIGN, REFER TO LIGHTING DEVICE SCHEDULE FOR ADDITIONAL REQUIREMENTS.



LIGHTING DEVICE SCHEDULE. LOWER CASE LETTER ON SWITCH SYMBOL MATCHES CONTROLLED LIGHT FIXTURES ON THE PLANS.

PROVDE CONTROL CABLE TO EACH DEVICE IN ROOM PER MANUFACTURER REQUIREMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO PARTITION SWITCHES, KEYED SWITCHES AND OTHER CONTROL DEVICES.

ROOM CONTROLLER - VACANCY/OCCUPANCY SENSOR DETAIL E301 SCALE: NOT TO SCALE

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12

