

THE CITY OF

CITY OF KALAMAZOO, MICHIGAN KWRP BAC-T LAB AND OFFICE IMPROVEMENTS





JAMES RITSEMA - CITY MANAGER

JAMES J. BAKER, PE - PUBLIC SERVICES DIRECTOR & CITY ENGINEER

STEVE HELMER - TREATMENT OPERATIONS SUPERINTENDENT

CHRIS NELSON - COLLECTIONS AND PLANT MAINTENANCE MANAGER

RYAN STOUGHTON, PE - ASSISTANT CITY ENGINEER - WASTEWATER



MEMBERS OF COMMISSION

DAVID ANDERSON - MAYOR

DON COONEY - VICE MAYOR

JEANNE HESS

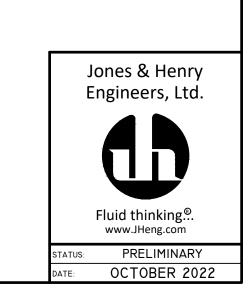
CHRIS PRAEDEL

QIANNA DECKER

STEPHANIE HOFFMAN

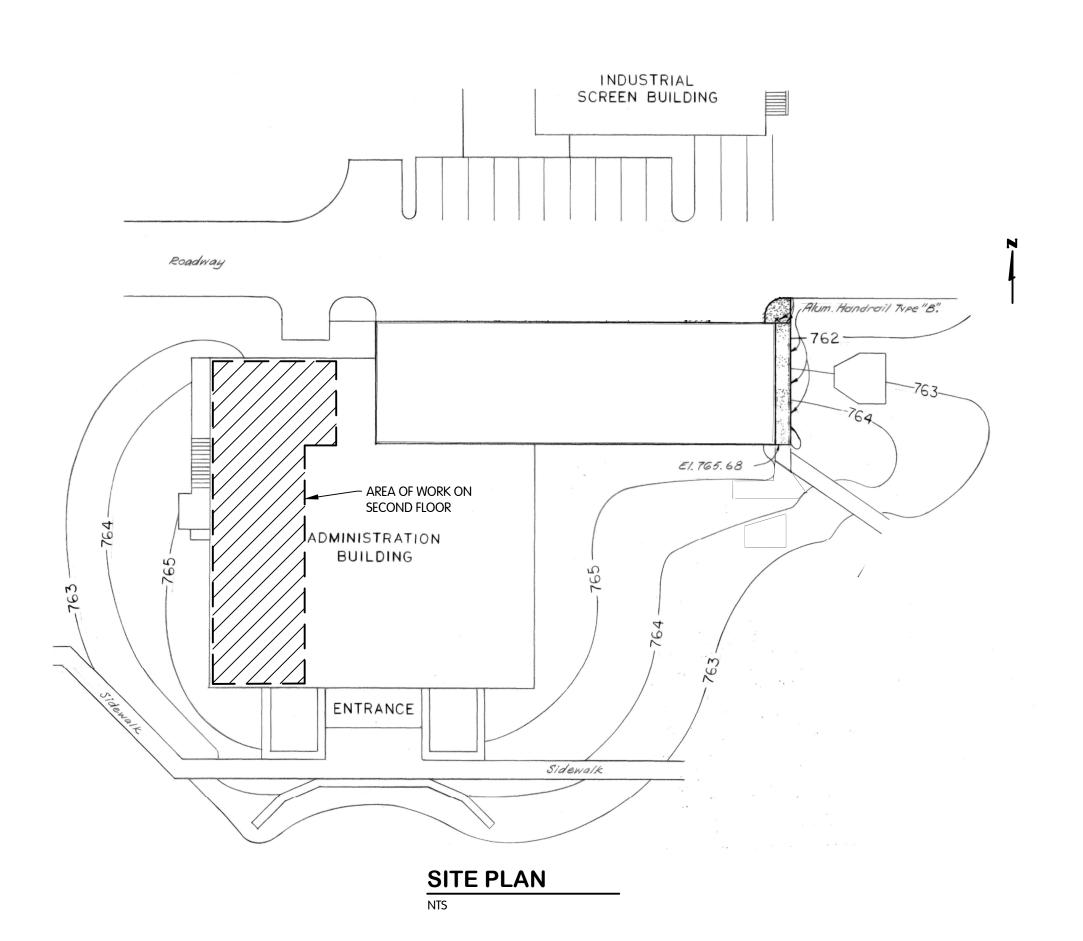
ESTEVEN JUAREZ





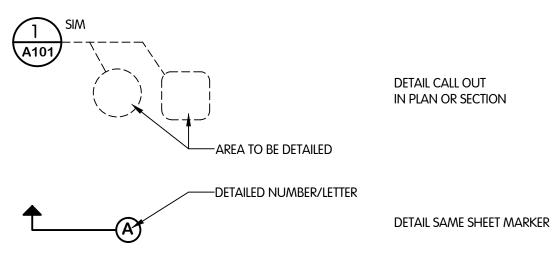
STA	NDARD AB	BREVI	ATIONS
AVE. A BM B BF B BLDG. C/C C CK'D PL. C CONC. DIA. D DWG. EMB. E EW E. EF E. ECC. E EL. E EXIST. E GAL. G GR. G HOR. H "OR IN. IN ID	ALUMINUM AVENUE SENCH MARK SUIND FLANGE SUILDING CENTER TO CENTER CHECKERED PLATE CONCRETE DIAMETER DRAWING MBEDMENT ACH WAY ACH FACE CCENTRIC LEVATION AST XISTING LANGE EET OR FOOT GALLON GRADE HORIZONTAL NCH VSIDE DIAMETER	MAX. MH MJ MIN. N NTS OC OD PE R RR S SCH. SH. SS ST. STA. T&B TYP. VERT. W W/	MAXIMUM MANHOLE MECHANICAL JOINT MINIMUM NORTH NOT TO SCALE ON CENTER OUTSIDE DIAMETER PLAIN END RADIUS RAILROAD SOUTH SCHEDULE SHEET STAINLESS STEEL STREET STATION TOP AND BOTTOM TYPICAL VERTICAL WEST WITH

	PIPING ABBRE	VIATIC	NS
	MATERIAL		SERVICE
ABS ABSC BSP CIP CISP CMP CPP CPT CPVC CU DIP FRP GLDIP GSP HDPE PP PVC PVC PVCP PVDF RCP SP SSP SWS UPVC VCP	ABS ACRYLONITRILE-BUTADIENE-STYRENE ABS COMPOSITE SEWER PIPE (TRUSS PIPE) BLACK STEEL PIPE CAST IRON PIPE COST IRON SOIL PIPE CORRUGATED METAL PIPE CONCRETE PRESSURE PIPE CORRUGATED POLYETHYLENE TUBING CHLORINATED POLYVINYL CHLORIDE PIPE COPPER TUBING OR PIPING DUCTILE IRON PIPE FIBERGLASS REINFORCED PIPE GLASS-LINED DUCTILE IRON PIPE GALVANIZED STEEL PIPE HIGH DENSITY POLYETHYLENE PLAIN CONCRETE PIPE POLYETHYLENE POLYPROPYLENE PERFORATED POLYVINYL CHLORIDE PIPE POLYVINYL CHLORIDE PIPE POLYVINYL CHLORIDE (KYNAR) REINFORCED CONCRETE PIPE STEEL PIPE STAINLESS STEEL PIPE STELL PIPE STAINLESS STEEL PIPE SPIRAL WELDED STEEL UNPLASTICIZED POLYVINYL CHLORIDE PIPE VITRIFIED CLAY PIPE	AA AL C CA CL CO CLG DS DW DCW EW E FC FD FE FO FU G GR HWS IC ML NG NPW PE FS SPA ST SM SP TD T TE TS TWAS WAS	AERATION AIR ALUM CABLE (UNDERGROUND)* COMPRESSED AIR CHLORINE SOLUTION COMBINED SEWER CHLORINE GAS DIGESTER GAS DIGESTED SLUDGE DILUTION WATER DOMESTIC COLD WATER DOMESTIC HOT WATER EFFLUENT WATER ELECTRICAL (UNDERGROUND)* FERRIC/FERROUS CHLORIDE FOUNDATION DRAIN FINAL EFFLUENT FIBER OPTIC FUEL OIL NATURAL GAS (OFF SITE) GREASE HOT WATER RETURN HOT WATER SUPPLY IRON CHLORIDE MIXED LIQUOR NATURAL GAS (ON SITE) NON POTABLE WATER POLYMER PRIMARY EFFLUENT PRIMARY SLUDGE RETURN ACTIVATED SLUDGE ROOF DRAIN RAW SEWAGE RAW WATER SANITARY SEWER SECONDARY BYPASS SCUM SECONDARY BYPASS SCUM SECONDARY EFFLUENT SIGNAL (UNDERGROUND)* SPARE STORM SEWER STEAM DIGESTER SUPERNATANT TANK DRAIN TELEPHONE (UNDERGROUND)* THICKENED SLUDGE THICKENED WASTE ACTIVATED SLUDGE

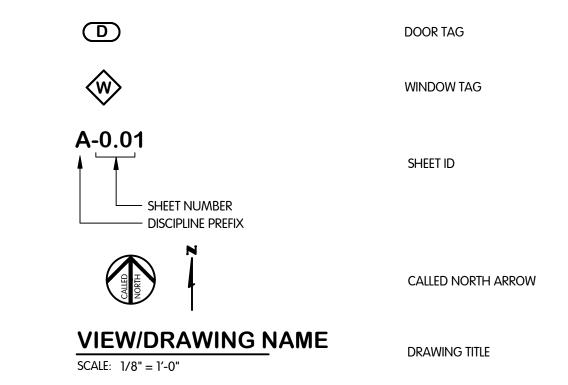




DELINEATION OF SECTIONS



DELINEATION OF BLOW - UP DETAILS



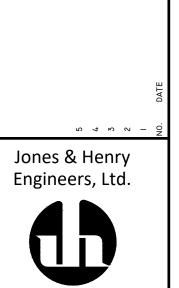
SECTION OR DETAIL TITLE

VIEW/DRAWING NAME
A101 SCALE: 1/8" = 1'-0"

DRAWING INDEX

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		REMOVALS							
2	R-1	ADMINISTRATION BUILDING - BAC-T LAB AND OFFICE - REMOVALS							
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4	A-1	ADMIN BUILDING - BAC-T LAB - ARCHITECTURAL PLAN & ELEVATIONS							
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6	A-3	ADMIN BUILDING - BAC-T LAB & OFFICE - ARCHITECTURAL SCHEDULES							
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7	M-1	ADMIN BUILDING - BAC-T LAB & OFFICE - MECHANICAL PLAN							
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9	M-3	ADMIN BUILDING - BAC-T LAB & OFFICE - MECHANICAL SCHEDULES							
	•	ELECTRICAL							
10	E-1	ELECTRICAL LEGEND							
11	E-2	ADMIN BUILDING - BAC-T LAB & OFFICE - ELECTRICAL PLAN							





INDEX, LEGENDS, ABBREVIATIONS AND GENERAL NOTES

JOB NO.	017-7969.001				
SCALE	NONE				
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DESIGNED BPW	DRAWN CJAF	CHECKED			
STATUS:	PRELIMIN	ARY			
DATE:	OCTOBER	2022			
	SHEET NO.				
	G-1				

Fluid thinking.... www.JHeng.com

- ACCURACY OF EXISTING ELEVATIONS AND DIMENSIONS IS NOT GUARANTEED. FIELD VERIFY BEFORE CONSTRUCTION.
- ALL NOTES ON THE DRAWINGS BEAR THE SAME IMPORTANCE. SOME NOTES AND DIMENSIONS ARE BOLD TO AID IN READING THE DRAWINGS IN AREAS OF HIGH GRAPHIC DENSITY.

WALL, DOOR AND DOOR FRAME REMOVALS REMOVALS, SEE NOTES FOR DETAILS

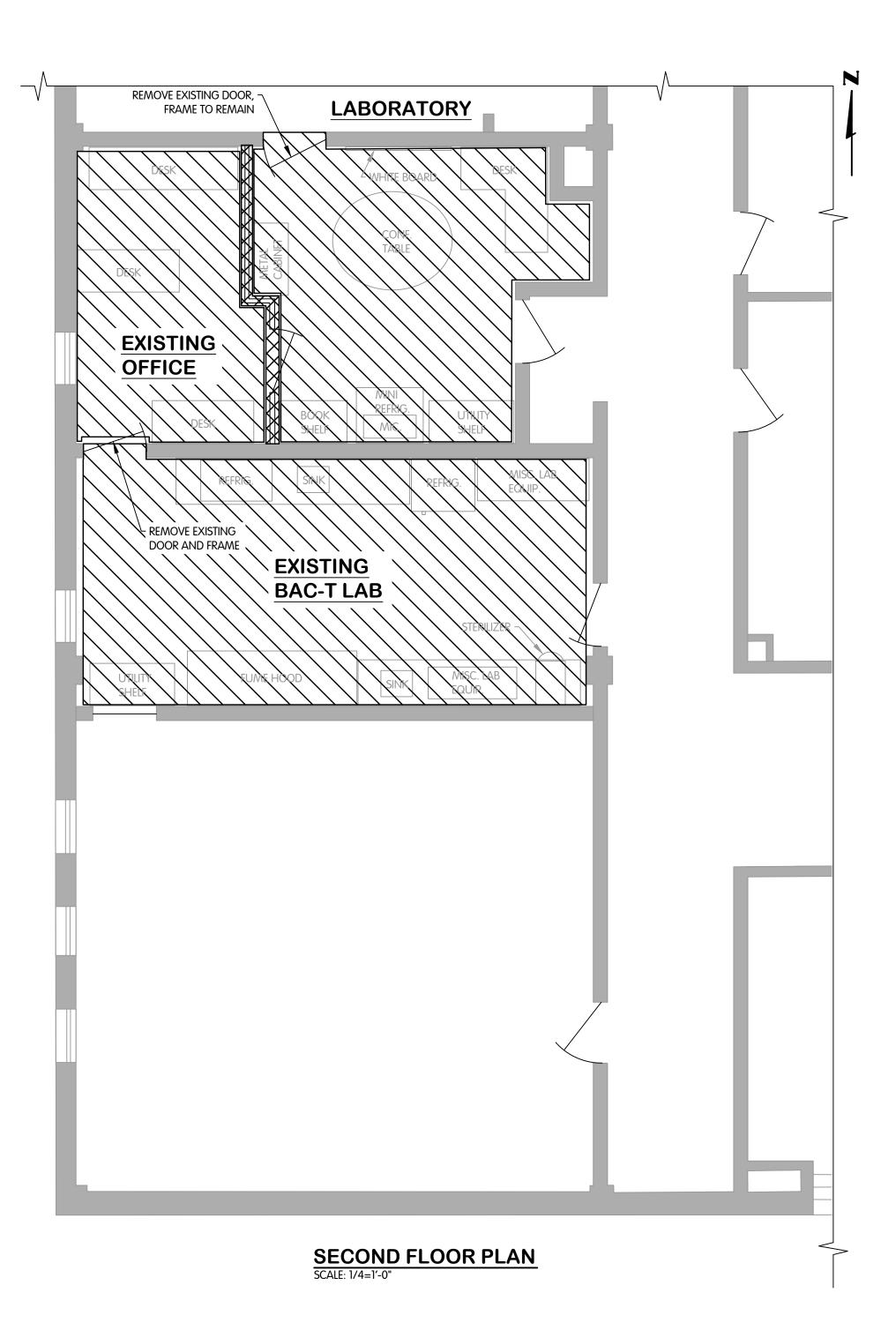


GENERAL DEMOLITION NOTES:

- 1. PATCH AND REPAIR ALL FLOOR AND WALL SURFACES LEFT DAMAGED OR INCOMPLETE FROM REMOVAL OF EXISTING PARTITIONS, MILLWORK, CASEWORK, OR OTHER FIXED ACCESSORIES AND EQUIPMENT WITH MATERIALS TO MATCH EXISTING, AS ACCEPTABLE TO THE ENGINEER.
- 2. NOTATIONS ARE MADE IN VARIOUS PLACES ON THE DRAWINGS TO CALL ATTENTION TO DEMOLITION WHICH IS REQUIRED. HOWEVER, THESE DRAWINGS ARE NOT INTENDED TO SHOW EACH AND EVERY ITEM TO BE REMOVED. CONTRACTOR SHALL REMOVE ALL MATERIALS RELATED TO THEIR RESPECTIVE TRADES AS REQUIRED TO PERMIT THE CONSTRUCTION OF THE NEW WORK AS SHOWN.
- 3. THE GENERAL CONTRACTOR SHALL COORDINATE THE EXTENT OF THE REQUIRED DEMOLITION OF THE EXISTING BUILDING AS REQUIRED TO FACILITATE THE CONSTRUCTION OF THE PROJECT AS SHOWN AS PART OF THIS WORK.
- 4. THE GENERAL CONTRACTOR SHALL COORDINATE WITH MEP CONTRACTORS FOR REMOVAL AND DISPOSAL OF OTHER
- 5. ALL DEMOLITION SHALL BE APPROVED BY THE OWNER PRIOR TO COMMENCEMENT AND SHALL BE PERFORMED UNDER REQUIREMENTS AND APPROVAL OF THE LOCAL CODE JURISDICTIONS.
- 6. DEMOLISH AND REMOVE ANY MATERIALS THAT WOULD HINDER THE INSTALLATION OF THE SCHEDULED WORK FOR THIS PROJECT.
- 7. ASBESTOS ABATEMENT; CONTRACTORS SHALL NOTIFY BUILDING REPRESENTATIVE IMMEDIATELY WHEN AND IF ANY ITEMS ARE ENCOUNTERED THAT IN ANY WAY, SHAPE, OR FORM APPEAR TO BE HAZARDOUS OF NATURE. ASBESTOS ABATEMENT IS NOT PART OF THE SCOPE OF THE DEMOLITION CONTRACT NOR PART OF THE SCOPE OF THE DESIGN PROFESSIONALS DOCUMENTATION OR RESPONSIBILITY TO SURVEY, IDENTIFY, OR FOR CONSULTATION OF PROPER
- 8. PROTECT ALL EXISTING WORK WHICH IS TO REMAIN AND RESTORE IN AN APPROVED MANNER ANY SUCH WORK WHICH BECOMES DAMAGED.
- 9. RUBBISH AND DEBRIS RESULTING FROM THE WORK SHALL BE REMOVED IMMEDIATELY FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF LEGALLY OFF OF SITE.

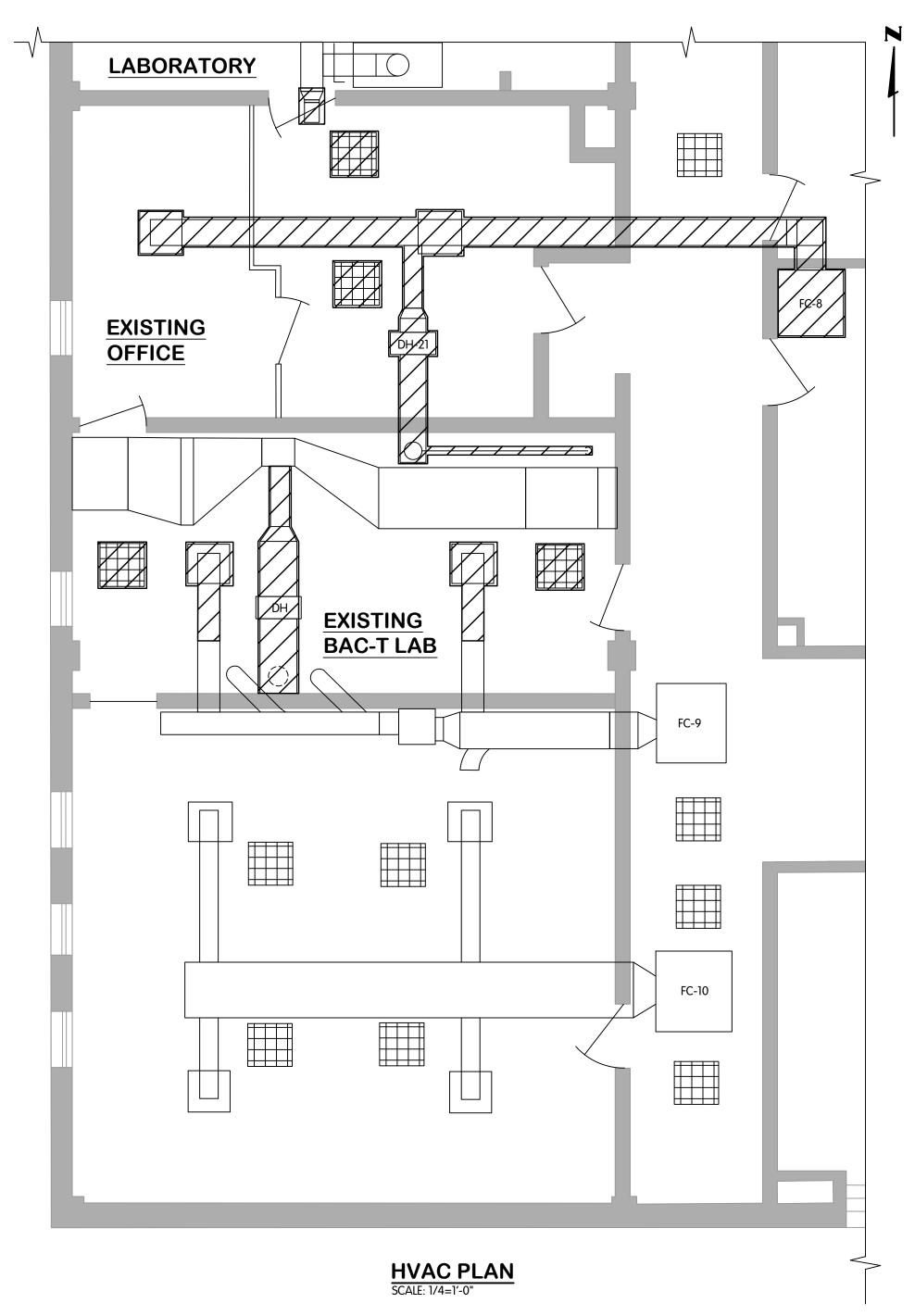
ARCHITECTURAL REMOVAL NOTES:

- 1. ALL FURNITURE AND EQUIPMENT TO BE SALVAGED. COORDINATE STORAGE AND RE-USE WITH OWNER.
- 2. REMOVE FLOORING IN OFFICE. PREPARE SUBSURFACE FOR EPOXY TYPE FLOOR. INVESTIGATE AND RE-INSTATE FLOOR DRAINS IF APPLICABLE, COORDINATE WITH PLUMBING CONTRACTOR.
- 3. REMOVE THE EXISTING FLOORING IN BAC-T LAB AND PREPARE SUBSURFACE FOR CARPET TILES.
- 4. REMOVE TILE CEILING, LIGHT FIXTURES, AND DIFFUSERS IN BOTH THE OFFICE AND BAC-T LAB SPACES.
- 5. PREPARE ALL WALLS FOR PAINTING. SOME WALLS ARE GLAZED BLOCK AND WILL REQUIRE SPECIAL PREPARATIONS FOR NEW PAINT.
- REMOVE AND SALVAGE EXISTING LAB EQUIPMENT, COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS. REFER TO A-1 FOR NEW LOCATIONS.
- 7. REMOVE AND DISPOSE OF BASE CABINETS, WALL CABINETS AND COUNTER TOPS.



MECHANICAL REMOVAL NOTES:

- 1. REMOVE AND DISPOSE OF FAN COIL FC-8 AND ASSOCIATED DUCTWORK. CUT AND DISPOSE OF HEATING HOT WATER AND CHILLED WATER PIPING BACK TO ISOLATION VALVES
- 2. REMOVE ALL REGISTERS, GRILLES, AND DIFFUSERS IN THE BAC-T LAB. PREPARE FOR NEW. REFER TO SHEET M-1 FOR NEW DUCT LAYOUT.
- 3. REMOVE DUCT HEATER DH-21. PREPARE FOR NEW. COORDINATE WITH ELECTRICAL CONTRACTOR.
- 4. REMOVE EXHAUST FAN AND DUCTWORK ASSOCIATED WITH THE EXISTING FUME HOOD. CAP EXHAUST FAN ROOF CURB.





I BUILDING TION STRA

2 4 6 9 -Jones & Henry Engineers, Ltd.

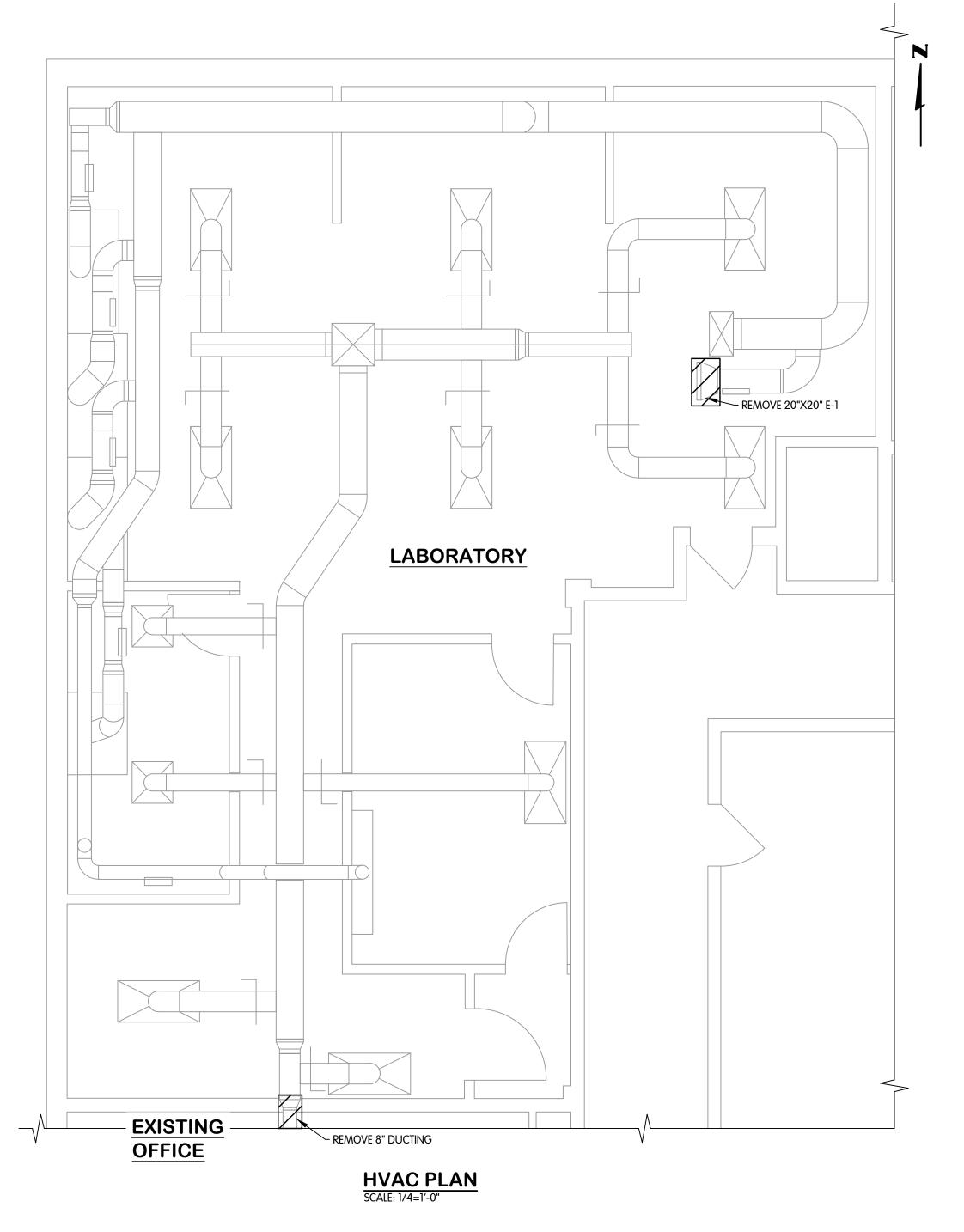


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R-1





ADMINISTRATION BUILDING LABORATORY REMOVALS

CITY OF KALAMAZOO, MI KWRP BAC-T LAB AND OFFICE IMPROVEMENTS

2 4 6 6 -Jones & Henry Engineers, Ltd.



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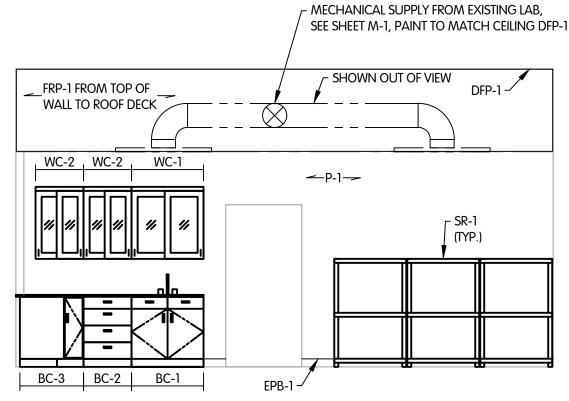
ARCHITECTURAL GENERAL NOTES:

DRAWINGS ESTABLISH THE DESIGN INTENT OF WORK TO BE PREFORMED. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HIGHEST INDUSTRY STANDARDS. ALL PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL TRADES SHALL CAREFULLY COORDINATE WORK OF ALL OTHER TRADES. ANY DISCREPANCIES OR CONFLICTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND THE OWNER PRIOR TO FABRICATION OR INSTALLATION.

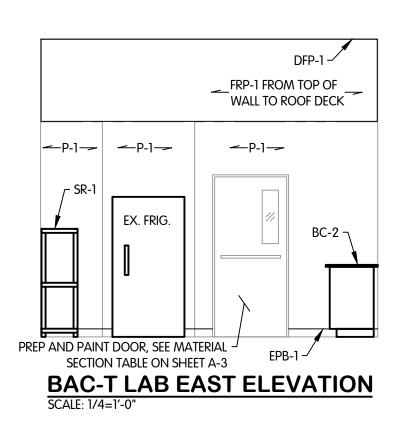
- 2. CONTRACTORS SHALL BE RESPONSIBLE FOR CHECKING DOCUMENTS FOR COORDINATION BETWEEN ALL DISCIPLINES INCLUDING BUT NOT RESTRICTED TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL. CONTRACTORS SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS AND FOR VERIFYING THEM WITH THE CONTRACT DOCUMENTS. ANY DISCREPANCY IN THE CONTRACT DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEERS PRIOR TO ANY FABRICATION OR CONSTRUCTION.
- 3. COORDINATE SIZE AND LOCATION OF ALL EQUIPMENT SUPPORTS INCLUDING BUT NOT RESTRICTED TO CONCRETE HOUSEKEEPING PADS WITH APPROPRIATE EQUIPMENT MANUFACTURER.
- 4. COORDINATE SIZE AND LOCATION OF ALL ACCESS PANELS WITH TRADE REQUIRING THE SAME. ACCESS PANELS ARE SPECIFIED ARCHITECTURALLY BUT ARE REQUIRED TO BE PROVIDED BY EACH TRADE. ALL LOCATIONS MUST BE COORDINATED AND APPROVED BY THE ENGINEERS FIELD REPRESENTATIVE.
- 5. VERIFY QUANTITY, SIZE, AND LOCATION OF ALL FLOOR, ROOF, AND WALL OPENINGS FOR ALL DISCIPLINES INCLUDING BUT NOT RESTRICTED TO MECHANICAL AND ELECTRICAL WORK WITH THE APPROPRIATE TRADE. PROVIDE ALL OPENINGS SHOWN OR REQUIRED FOR THE COMPLETION OF THE WORK. PROVIDE ALL LINTELS REQUIRED FOR THESE OPENINGS PER SPECIFICATIONS.
- 6. FLOOR PLANS ARE DIMENSIONED TO NOMINAL WALL THICKNESS -
- 7. DIMENSIONS FOLLOWED BY ± SHOULD BE REVIEWED AND ALL NECESSARY ADJUSTMENTS MADE PRIOR TO FABRICATION AND/OR INSTALLATION OF AFFECTED WORK. NOTIFY ENGINEERS REPRESENTATIVE IF DISCREPANCIES ARISE BEFORE PROCEEDING WITH THE WORK.

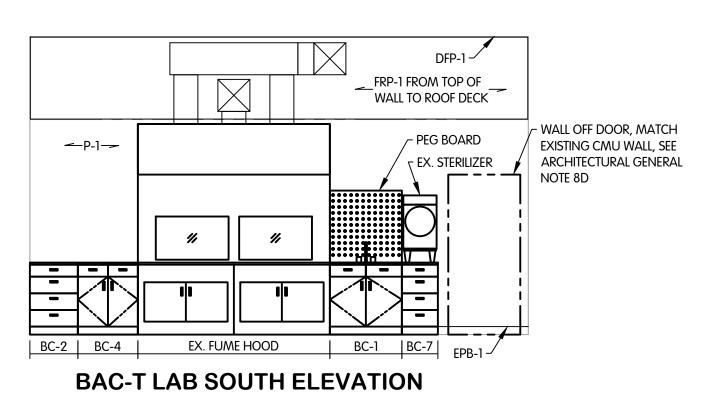
8. PATCHING:

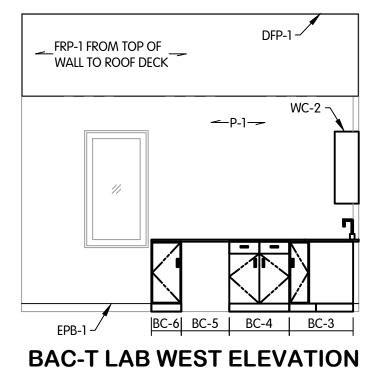
- A. REFER TO DEMOLITION PLANS FOR ADDITIONAL PATCHING INFORMATION.
- B. FOR ALL FLOOR SURFACES RECEIVING NEW FLOOR FINISHES, PREPARE SUBSTRATE BY PROVIDING LEVELING AND PATCHING COMPOUNDS RECOMMENDED BY FINISH FLOORING MANUFACTURERS. CONTRACTOR'S BASE BID PROPOSAL SHALL ASSUME THAT ALL AREAS, INDICATED TO RECEIVE NEW FINISHES, WILL REQUIRE FLOOR PREPARATION.
- C. PATCH AND REPAIR ALL FLOOR AND WALL SURFACES LEFT UNFINISHED OR INCOMPLETE FROM REMOVAL OF EXISTING PARTITIONS, MILLWORK, CASEWORK, OR OTHER FIXED ACCESSORIES AND EQUIPMENT WITH MATERIALS TO MATCH EXISTING, AS ACCEPTABLE TO THE ENGINEER AND OWNER.
- D. MATCH EXISTING MASONRY COURSING ADJACENT IN EACH AREA AND TOOTH NEW WORK (INCLUDING JAMBS OF DOORS AND OTHER OPENINGS) INTO EXISTING, UNLESS OTHERWISE NOTED.
- 9. ALL NEW MASONRY CORNERS TO BE BULLNOSED.



BAC-T LAB NORTH ELEVATION
SCALE: 1/4=1'-0"







Jones & Henry



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FORY ELEVATIONS

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ADMINISTRA BAC-T L ARCHITECTURAL

BUILDING ATORY

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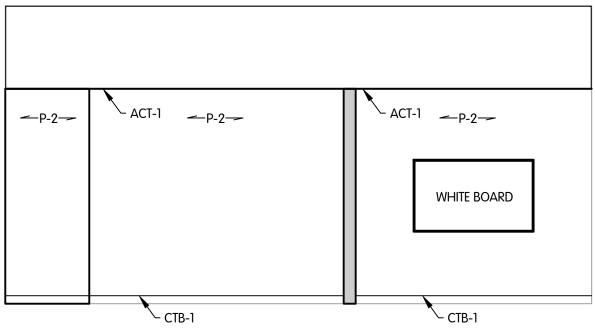
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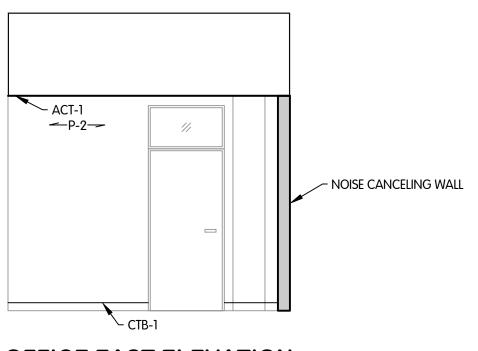
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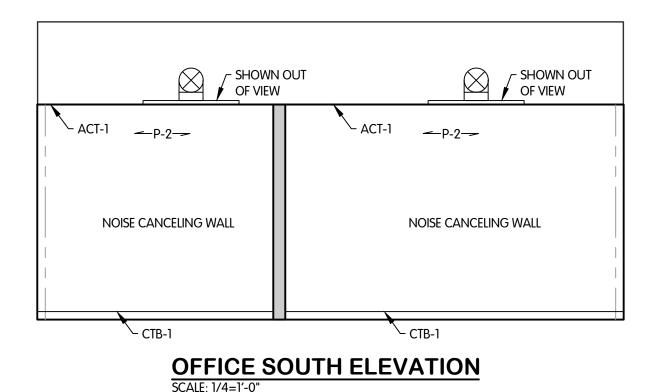
- 2. CONTRACTORS SHALL BE RESPONSIBLE FOR CHECKING DOCUMENTS FOR COORDINATION BETWEEN ALL DISCIPLINES INCLUDING BUT NOT RESTRICTED TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL. CONTRACTORS SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS AND FOR VERIFYING THEM WITH THE CONTRACT DOCUMENTS. ANY DISCREPANCY IN THE CONTRACT DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEERS PRIOR TO ANY FABRICATION OR CONSTRUCTION.
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- 4. COORDINATE SIZE AND LOCATION OF ALL ACCESS PANELS WITH TRADE REQUIRING THE SAME. ACCESS PANELS ARE SPECIFIED ARCHITECTURALLY BUT ARE REQUIRED TO BE PROVIDED BY EACH TRADE. ALL LOCATIONS MUST BE COORDINATED AND APPROVED BY THE ENGINEERS FIELD REPRESENTATIVE.
- 5. VERIFY QUANTITY, SIZE, AND LOCATION OF ALL FLOOR, ROOF, AND WALL OPENINGS FOR ALL DISCIPLINES INCLUDING BUT NOT RESTRICTED TO MECHANICAL AND ELECTRICAL WORK WITH THE APPROPRIATE TRADE. PROVIDE ALL OPENINGS SHOWN OR REQUIRED FOR THE COMPLETION OF THE WORK. PROVIDE ALL LINTELS REQUIRED FOR THESE OPENINGS PER SPECIFICATIONS.
- FLOOR PLANS ARE DIMENSIONED TO NOMINAL WALL THICKNESS -TYPICAL.
- 7. DIMENSIONS FOLLOWED BY ± SHOULD BE REVIEWED AND ALL NECESSARY ADJUSTMENTS MADE PRIOR TO FABRICATION AND/OR INSTALLATION OF AFFECTED WORK. NOTIFY ENGINEERS REPRESENTATIVE IF DISCREPANCIES ARISE BEFORE PROCEEDING WITH THE WORK.
- 8. PATCHING:
- A. REFER TO DEMOLITION PLANS FOR ADDITIONAL PATCHING INFORMATION.
- B. FOR ALL FLOOR SURFACES RECEIVING NEW FLOOR FINISHES, PREPARE SUBSTRATE BY PROVIDING LEVELING AND PATCHING COMPOUNDS RECOMMENDED BY FINISH FLOORING MANUFACTURERS. CONTRACTOR'S BASE BID PROPOSAL SHALL ASSUME THAT ALL AREAS, INDICATED TO RECEIVE NEW FINISHES, WILL REQUIRE FLOOR PREPARATION.
- C. PATCH AND REPAIR ALL FLOOR AND WALL SURFACES LEFT UNFINISHED OR INCOMPLETE FROM REMOVAL OF EXISTING PARTITIONS, MILLWORK, CASEWORK, OR OTHER FIXED ACCESSORIES AND EQUIPMENT WITH MATERIALS TO MATCH EXISTING, AS ACCEPTABLE TO THE ENGINEER AND OWNER.
- D. MATCH EXISTING MASONRY COURSING ADJACENT IN EACH AREA AND TOOTH NEW WORK (INCLUDING JAMBS OF DOORS AND OTHER OPENINGS) INTO EXISTING, UNLESS OTHERWISE NOTED.
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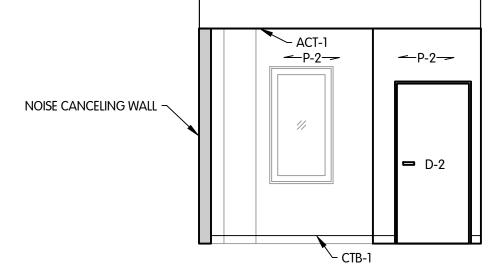


OFFICE NORTH ELEVATION



OFFICE EAST ELEVATION
SCALE: 1/4=1'-0"





OFFICE WEST ELEVATION

ADMINISTRATION BUILDING OFFICE ARCHITECTURAL PLAN & ELEVATIONS

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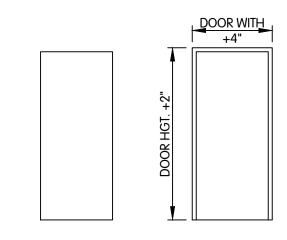
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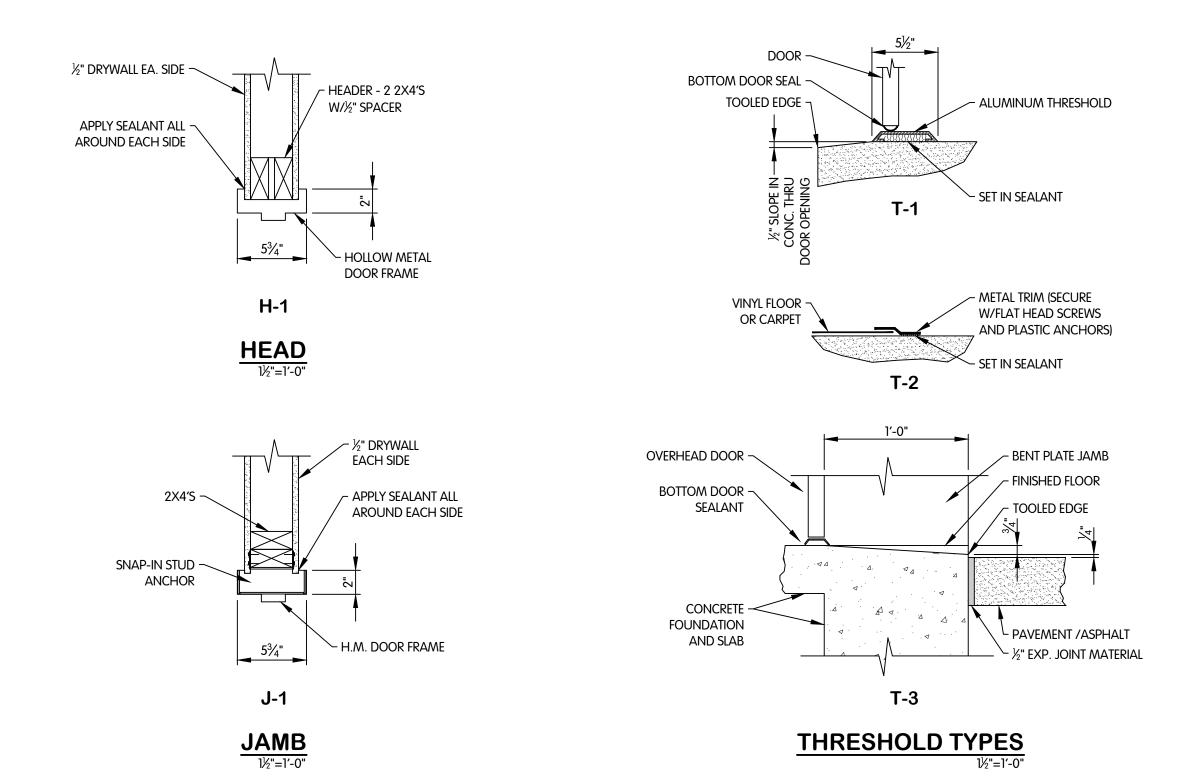
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A-2

RAL-1969001A0Z-ADMIN BOILDING - OFFICE - ARCHITECTURAL FLAN & ELEVATION 10/7/2022 II:53 AM - CFERRELL I0/12/2022 I:00 PM

	DOOR SCHEDULE											
		DO	OR						DETAILS			
TAG/ID	QNTY.	WIDTH	HEIGHT	THICKNESS	DOOR TYPE	DESCRIPTON	DOOR MATERIAL	HEAD	JAMB	THRESH		
D-1	1	36"	80"	1 3/4"	НМ	SINGLE LEAF DOOR	ALUMINUM	H-1	J-1	NONE		
D-2	1	36"	80"	1 3/4"	НМ	SINGLE LEAF DOOR	ALUMINUM	H-1	J-1	NONE		





			MATERIAL SELECTION SCHEDU	JLE	
CODE	ITEMS	MANUFACTURER	STYLE/FINISH	COLOR/PATTERN	NOTES
			FLOORS		
EP-1	EPOXY POURED FLOORING	SHERWIN WILLIAMS	DECORATIVE MOSAIC EPOXY COATING W/ "D" SIZE FLAKES	"D" FLAKE/ #TL-85	TOPCOAT SHALL BE SW #4685 POLY-COTE URETHANE
CT-1	CARPET TILE	SHAW	AREA TILE/ORGANIC ROOTS	COLOR TBD BY OWNER/24" X 24"	PROVIDE OWNER COMPLETE COLOR SAMPLE SELECTION PRIOR TO PROCUREMENT
EPB-1	EPOXY POURED BASE INTEGRAL COVE	SHERWIN WILLIAMS	DEC. MOSAIC EPOXY COATING W/ "D" SIZE FLAKES/ 4" HIGH INTEGRAL COVE		
CTB-1	CARPET TILE BASEBOARD	TARKETT	TRADITIONAL WALL BASE/RUBBER	COLOR TBD BY OWNER/4.5" HIGH	
	•		WALLS	· · · · · · · · · · · · · · · · · · ·	•
P-1	PAINT	SHERWIN WILLIAMS	#K46-150 SW PRO PRECATALYZED EPOXY PAINT SYSTEM SEMI-GLOSS	COLOR TBD BY OWNER	PROVIDE OWNER COMPLETE COLOR SAMPLE SELECTION PRIOR TO PROCUREMENT
P-2	PAINT	SHERWIN WILLIAMS	#B66-650 SERIES SEMI-GLOSS	COLOR TBD BY OWNER	PROVIDE OWNER COMPLETE COLOR SAMPLE SELECTION PRIOR TO PROCUREMENT
			CEILINGS		
ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG	#1774 DUNE / 24" X 24"	WHITE W/ PRELUDE 15/16" SUSPENSION SYSTEM	
DFP-1	DRYFALL PAINT SYSTEM	SHERWIN WILLIAMS	#B42W81 SW PRO ACRYLIC/FLAT CEILING FINISH	MATCH EXISTING LABORATORY	
			MILLWORK		
CAB-1	METAL LAB CABINETS	CIF LAB SOLUTIONS	S-LINE SERIES PREMIUM PAINTED METAL CASEWORK	COLOR TO MATCH LAB 215 CASEWORK. COORDINATE WITH OWNER	PROVIDE WITH CIF LAB SOLUTIONS/ HAFELE STAINLESS STEEL BOW PULLS #156.60.602. SE PLANS AND CABINET SCHEDULE FOR LOCATION AND MODEL INFORMATION
CAB-2	SOLID PLASTIC CABINETS	BMT/NELSON	SLIDING GLASS DOOR WALL CABINET	COLOR TO MATCH LAB 215 CASEWORK. COORDINATE WITH OWNER	
EPC-1	EPOXY RESIN COUNTERTOR	CIF LAB SOLUTIONS	DURCON - STANDARD STRAIGHT EDGE	BLACK	
			MISC.		
SR-1	STORAGE RACK	MUSCLE RACK	5 TIER HEAVY DUTY STEEL STORAGE SHELVING UNIT/ 36" X 72" X 18"	BLACK/ COORDINATE SHELF HEIGHTS WITH OWNER	
FRP-1	SPECIAL-LITE	SPECLITE 30	SLATE GREY		

	ROOM FINISH SCHEDULE										
					WALLS				LING	MILL	NORK
MARK	ROOM/AREA NAME	FLOOR	BASE	NORTH	EAST	SOUTH	WEST	MAT'L	FINISH	CAB.	ТОР
-	BAC-T LAB	EP-1	EPB-1	P-1	P-1	P-1	P-1	DFP-1	MATCH EX.	CAB-1	EPC-1
205	OFFICE	CT-1	CTB-1	P-2	P-2	P-2	P-2	ACT-1	WHITE	-	-

	CABINET SCHEDULE									
CABINET	MANUFACTURER	MODEL	WIDTH	HEIGHT	QTY.					
BC-1	CIF	B2200	36"	35"	2					
BC-2	CIF	B4550	24"	35"	2					
BC-3	CIF	X1260	14"	35"	1					
BC-4	CIF	B0100	30"	35"	2					
BC-5	CIF	R3300	24"	35"	1					
BC-6	CIF	B0110	15"	35"	1					
BC-7	CIF	B4550	18"	35"	1					
WC-1	BMT/NELSON	406-36	36"	36"	1					
WC-2	BMT/NELSON	406-24	24"	36"	2					

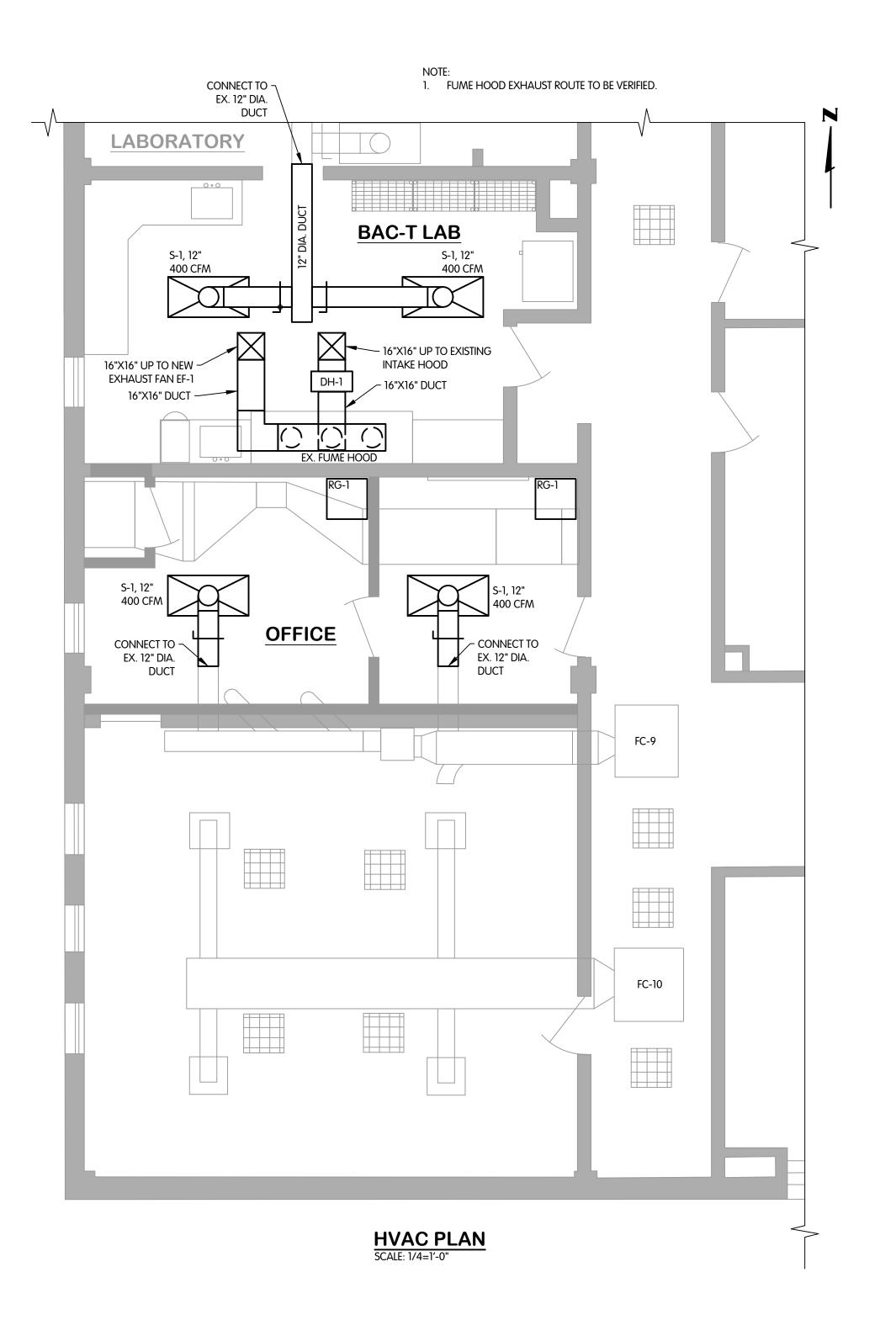


JOB NO. 017-7969.001

AS NOTED THIS LINE SCALES I" WHEN PLOTTED TO NOTED SCALE

DRAWN CJAF DESIGNED PRELIMINARY OCTOBER 2022

A-3





ADMINISTRATION BUILDING BAC-T LAB AND OFFICE MECHANICAL PLANS AB AND OFFICE

DATE REVISIONS AFTER ISSUED FOR BID

Jones & Henry Engineers, Ltd.



JOB NO. 017-7969.001

THIS LINE SCALES I" WHEN PLOTTED TO NOTED SCALE

DESIGNED DRAWN CHECKED

BPW CJAF

ATUS: PRELIMINARY

TE: OCTOBER 2022

SHEET NO.

M-1

KAL-796900IM0I-ADMIN BUILDING - BAC-T LAB & OFFICE - MECHANI 10/12/2022 11:23 AM - CFERRELL 10/12/2022 1:00 PM



ADMINISTRATION BUILDING LABORATORY MECHANICAL PLAN

CITY OF KALAMAZOO, MI KWRP BAC-T LAB AND OFFICE IMPROVE

DATE REVISIONS AFTER ISSUED FOR BID BY

Jones & Henry



JOB NO. 017-7969.001

SCALE AS NOTED

THIS LINE SCALES I" WHEN PLOTTED TO NOTED SCALE

DESIGNED DRAWN CHECKED

CULTUS: PRELIMINARY

TE: OCTOBER 2022

SHEET NO.

M-2

DRAWN CJAF OCTOBER 2022

> M-39 of **||**

	PLUMBING FIXTURE SCHEDULE										
MARK	FIXTURE	cw	HW	SAN	VNT	FIXTURE MODEL	FIXTURE MANUFACTURER	TRIM MODEL	TRIM MANUFACTURER	DESCRIPTION	
FD-1	FLOOR DRAIN	_	_	2"	_	ZN415B-P	ZURN	ĺ	PRECISION PLUMBING PRODUCTS	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION	
								CONNECTION, TRAP PRIMER		INVERTABLE MEMBRANE CLAMP, AND ADJUSTABLE COLLAR WITH SEEPAGE	
								MODEL: PR500SS		SLOTS AND TYPE "B" POLISHED NICKLE BRONZE, 8" LIGHT DUTY STRAINER,	
										PROVIDE TRAP PRIMER CONNECTION AND 8-7/8"X1/4"X3-3/4" OVAL FUNNEL	
SK-1	SINK-BARRIER FREE	1/2"	1/2"	2"	1-1/4"	U15C	CIFLAB SOLUTIONS	SF857	CIFLAB SOLUTIONS	24.4"X18.4"X16.8" EPOXY UNDERMOUNT SINK, DECK MOUNTED ONE HOLE	
										MIXER WITH ADA-FRIENDLY BLADE HANDLES, VACCUM BREAKER GOOSENECK	
										AND DETACHABLE NOZZLE	

			AIR INLETS AND OULETS	
MARK	MODEL	SIZE	COMMENTS	NOTES
E-1	350RL-SS	24X24	SINGLE DEFLECTION, SURFACE MOUNTED, STAINLESS STEEL, WHITE	1
RG-1	50F	24X24	EGGCRATE RETURN GRILLE, LAY-IN, ALUMINUM, WHITE	1
S-1	TRITEC-SS	24X48	2-WAY, LOW VELOCITY, HEMISPHERICAL FLOW PATTERN, STAINLESS STEEL, FACE AND BACKPAN	1
S-2	TRITEC-SS	24X48	1-WAY, LOW VELOCITY, HEMISPHERICAL FLOW PATTERN, STAINLESS STEEL, FACE AND BACKPAN	1

1. BASED ON TITUS

EXHAUST FAN SCHEDULE								
MARK	MODEL	CFM	ESP	RPM	HP	V/PH	NOTES	
EF-1	CUE-120-VG	1200	0.5	1284	1/4	115/60	1,2,3,4	
	1							

1. BASED ON GREENHECK

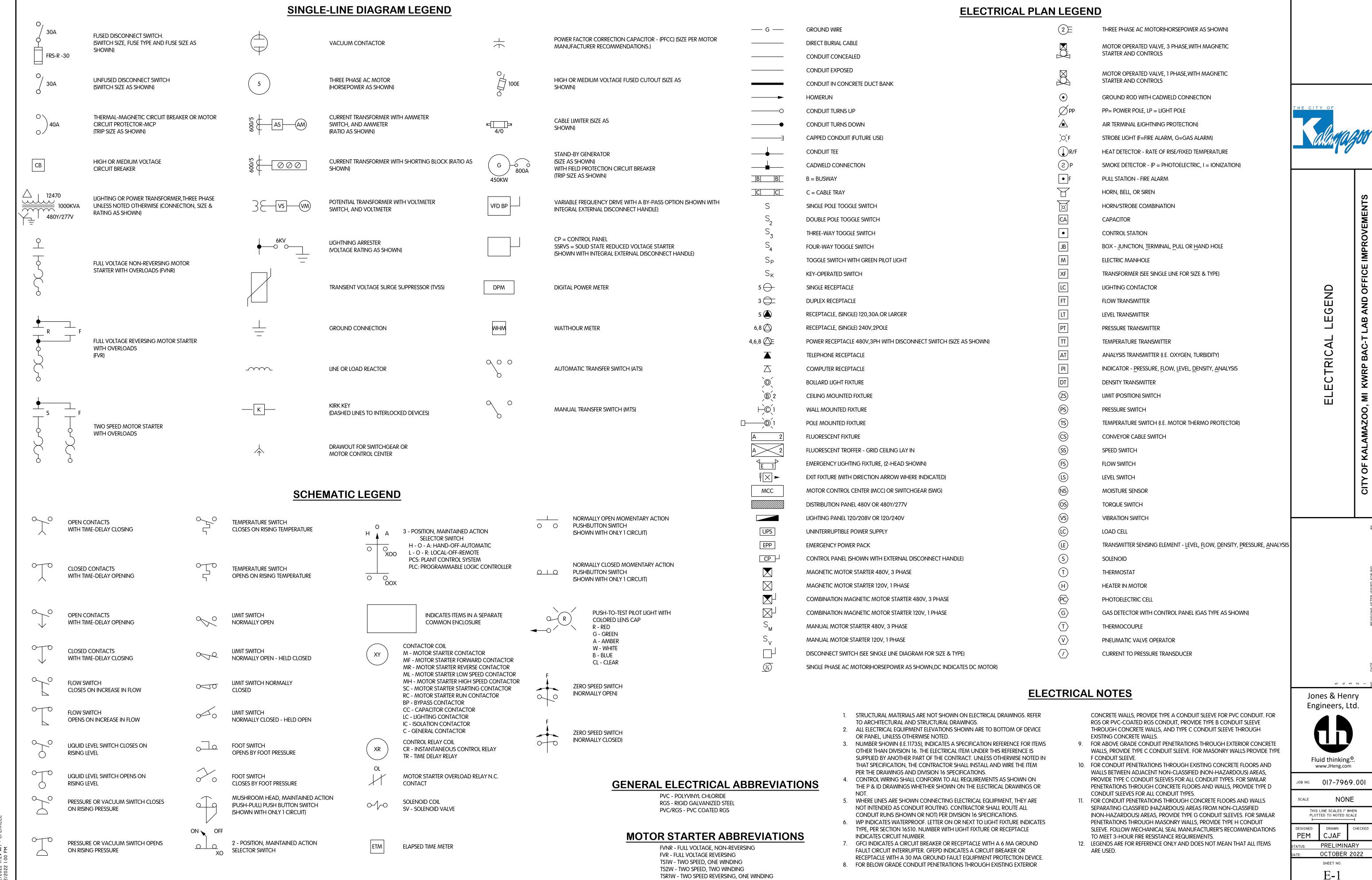
2. INSTALL ON EXISTING ROOF CURB. FIELD VERIFY DIMENSIONS

3. SOLID STATE SPEED CONTROL

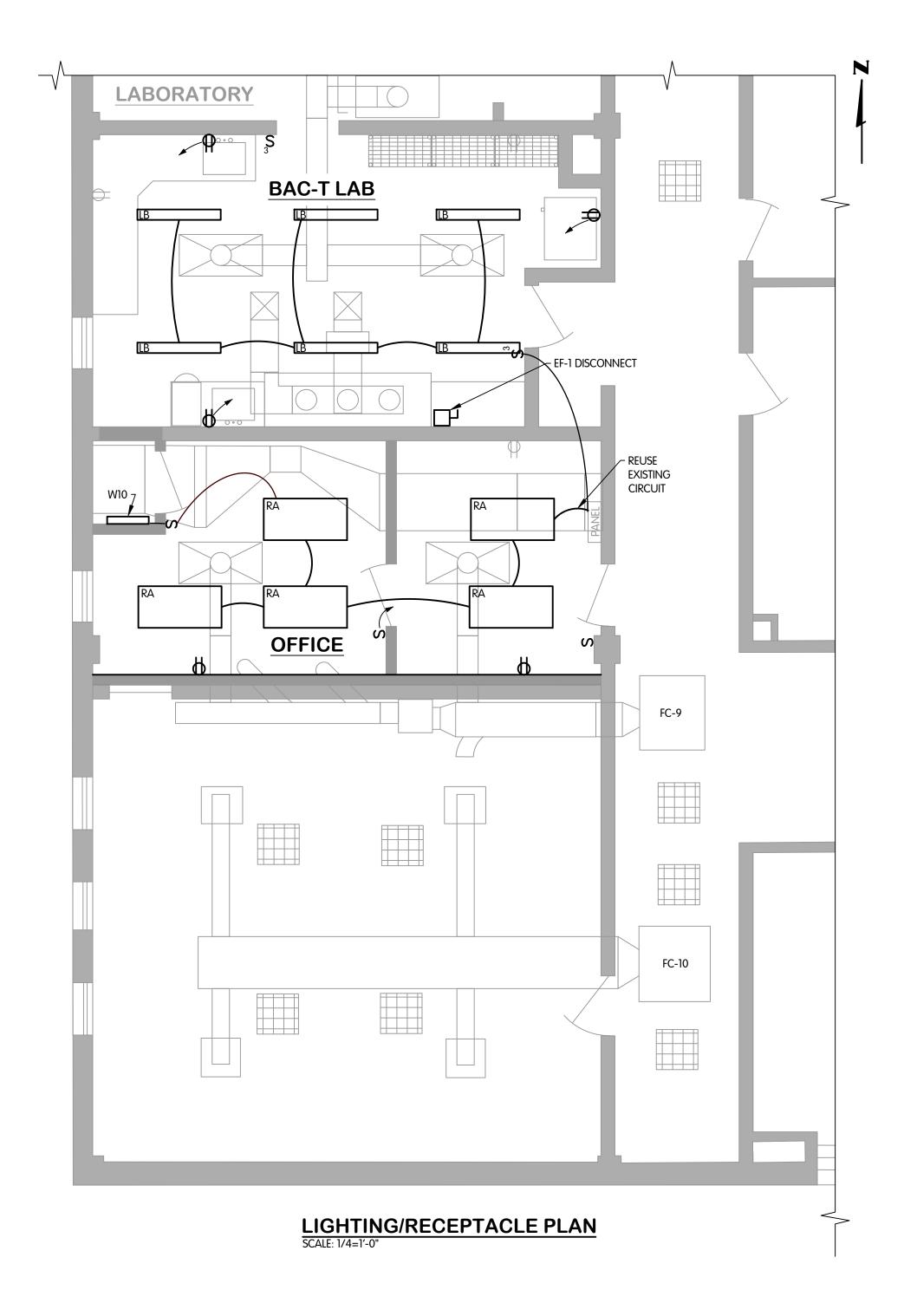
4. PROVIDE WITH GREENHECKS LABCOAT

DUCT HEATER SCHEDULE									
MARK	MODEL	KW/FT ²	VOLTS	PH	DIM (W)	DIM (H)	NOTES		
DH-1	IDHE	30	120	60	16	16	1		

1. BASED ON GREENHECK



TSR2W - TWO SPEED REVERSING, TWO WINDING



LIGHT FIXTURE SCHEDULE					
SYMBOL	MARK	QTY	MANUFACTURER	CATALOG	DESCRIPTION
	LB	6	COOPER LIGHTING SOLUTIONS - METALUX (FORMER EATON)	4WSL-LD2-50-UPL15-UNV-L840-CD1-U	4FT LINEAR WAVESTREAM SYSTEM, 15% UPLIGHT, L840
	RA	5	COOPER LIGHTING SOLUTIONS - METALUX (FORMER EATON)	24EN-LD2-40-UNV-L840-CD1-U	METALUX ENCOUNTER 2X4 LED TROFFER STANDARD OPTION
	W10	1	COOPER LIGHTING SOLUTIONS - METALUX (FORMER EATON)	2BCLED-LD4-16SL-F-UNV-L840-CD1-U	



AZOO, MI KWRP BAC-T LAB AND OFFICE IMPROVE ADMINISTRATION BUILDING BAC-T LAB AND OFFICE ELECTRICAL PLAN

2 4 K 2 -Jones & Henry



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E-2