# MACOMB COUNTY BOARD OF COMMISSIONERS CLEMENS CENTER - COUNTY CLERK STORAGE RENOVATION

ISSUED FOR:<br/>DATE:CONSTRUCTION DOCUMENTS<br/>July 25, 2024PROJECT NO.:231987

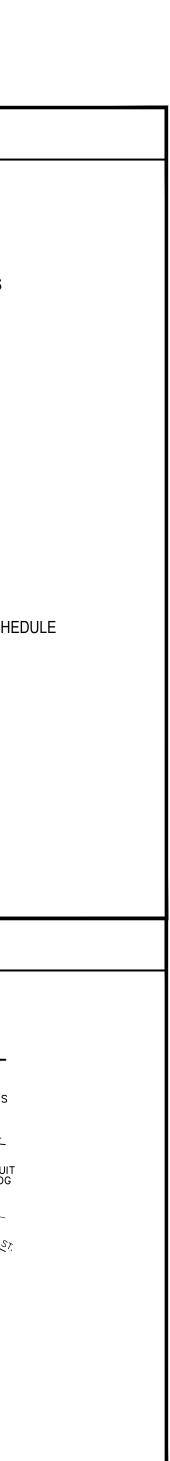
ARCHITECT: WAKELY ASSOCIATES, INC./ ARCHITECTS 30500 VAN DYKE AVE, SUITE 209, WARREN, MI 48093, 586-573-4100

MECHANICAL/ ELECTRICAL ENGINEERS: UNIFIED BUILDING SYSTEMS ENGINEERING, LLC 75 N. MAIN ST. SUITE 221, MT. CLEMENS, MI 48043, 248.804.1741

ENGINEER SEAL:		

ARCHITECT SEAL:

	TURAL DRAWINGS:
G0.0 G4.1	COVER SHEET GENERAL INFORMATION, SYMBOLS AND ABBREVIATIONS
A1.0 A1.1 A1.2	COMPOSITE FLOOR PLANS CLEMENS CENTER - ENLARGED DEMOLITION AND NEW WORK FLOOR PLANS CLEMENS CENTER - ENLARGED REFLECTED CEILING AND ROOF PLANS
MECHANIC/ M10.00 MD1.00 P1.00 M1.00 M15.00	AL DRAWINGS: CLEMENS CENTER - MECHANICAL GENERAL INFORMATION CLEMENS CENTER - MECHANICAL DEMOLITION LOWER LEVEL FLOOR PLAN CLEMENS CENTER - PLUMBING NEW WORK LOWER LEVEL FLOOR PLAN CLEMENS CENTER - MECHANICAL NEW WORK LOWER LEVEL FLOOR PLAN CLEMENS CENTER - MECHANICAL DETAILS AND SCHEDULES
M20.00 MD2.00 P2.00 M2.00 M25.00	16TH DISTRICT COURT - MECHANICAL GENERAL INFORMATION 16TH DISTRICT COURT - MECHANICAL DEMOLITION FIRST FLOOR PLAN 16TH DISTRICT COURT - PLUMBING NEW WORK FIRST FLOOR PLAN 16TH DISTRICT COURT - MECHANICAL NEW WORK FIRST FLOOR PLAN 16TH DISTRICT COURT - MECHANICAL DETAILS AND SCHEDULES
ELECTRICA E10.00 EPD1.00 ELD1.00 EP1.00 EL1.00 E15.00 E16.00	AL DRAWINGS: CLEMENS CENTER - ELECTRICAL GENERAL INFORMATION AND LIGHTING SCHEDUL CLEMENS CENTER - POWER DEMOLITION LOWER LEVEL FLOOR PLAN CLEMENS CENTER - LIGHTING DEMOLITION LOWER LEVEL FLOOR PLAN CLEMENS CENTER - POWER NEW WORK LOWER LEVEL FLOOR PLAN CLEMENS CENTER - LIGHTING NEW WORK LOWER LEVEL FLOOR PLAN CLEMENS CENTER - ELECTRICAL DETAILS AND PANEL SCHEDULES CLEMENS CENTER - ELECTRICAL ONE LINE DIAGRAM
	ion Mon
Local	ion Map
	HALL RD (M-59)
	19 MILE RD 19 MILE RD 19 MILE RD 19 MILE RD 19 MILE RD 10 MILE RD
	B B B B B B B B B B B B B B B B B B B



Storage Renovation o.: 231987 County Clerk S
 2024, Project No enter Iv 25, July Clemens nmissioners; struction of oard C for ounty sued 2

# STRUCTURAL GENERAL NOTES

SITE CONDITIONS 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UNDERGROUND UTILITIES IN THE AREA OF

CONSTRUCTION. 2. THE CONTRACTOR SHALL COORDINATE HIS WORK ACTIVITIES WITH THE OWNER TO MINIMIZE DISRUPTION TO THE OWNER'S

- OPERATION OF THE FACILITY. 3. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS, BEFORE COMMENCING WITH SHOP DRAWING PREPARATION. REPORT EXISTING CONDITIONS WHICH DO NOT CONFORM WITH THE DETAILS PROVIDED BY THE ARCHITECT.
- STRUCTURAL STEEL NOTES DESIGN, DETAILING, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS:
- A. AISC STEEL CONSTRUCTION MANUAL (14TH EDITION) INCLUDING: 1)AISC 360-10 - SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN
  - 2)AISC 348-09 SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS (RCSC) 3)AISC 303-10 - CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES
- B.AISC 326-09 DETAILING FOR STEEL CONSTRUCTION C.AWS D1.1-15 - STRUCTURAL WELDING CODE - STEEL
- 2. WIDE FLANGE SHAPES SHALL BE ASTM A992, Fy = 50,000 PSI.
- 3. MISCELLANEOUS SHAPES AND PLATE SHALL BE ASTM A36, Fy = 36,000 PSI. 4. HSS STEEL SHALL BE ASTM A500, GRADE B, Fy = 46,000 PSI.
- 5. ANCHOR BOLTS SHALL BE ASTM F1554, GRADE 55, Fy = 55,000 PSI. 6. STEEL ELEVATIONS SHALL BE AS INDICATED ON PLANS AND DETAILS.
- 7. PRIOR TO FABRICATION THE FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS SHALL CONSIST OF TWO SETS OF BLACKLINE DRAWINGS (MIN). 8. INSTALL ASTM A325 BOLTS IN ACCORDANCE WITH THE SPECIFICATION FOR STRUCTURAL JOINTS, USING ONE HARDENED WASHER UNDER THE TURNED ELEMENT, AND AN IMPACT WRENCH TO ACHIEVE FIRM CONTACT BETWEEN CONNECTED PLIES AND A SNUG
- TIGHT CONDITION. 9. SHOP AND FIELD WELDS SHALL BE MADE BY APPROVED CERTIFIED WELDERS. PERFORM ALL WELDING BY THE ELECTRIC ARC METHOD IN ACCORDANCE WITH THE AWS D1.1 STRUCTURAL WELDING CODE. 10.PERFORM WELDING WITH SPECIFIED ELECTRODES AND QUALIFIED WELDERS, WELDING OPERATORS, AND TACKERS AS
- APPROPRIATE, PER SPECIFIED REFERENCE STANDARDS. PROVIDE NECESSARY JIGS AND HOLDING DEVICES FOR SHOP WELDING. CONTROL WELDING SEQUENCE TO MINIMIZE RESIDUAL STRESSES AND MEMBER DISTORTION. 11.MAKE BOLTED CONNECTIONS WITH 3/4 INCH DIAMETER ASTM A325N BEARING TYPE BOLTS (WITH THREADS ASSUMED IN THE
- SHEAR PLANE) UNLESS OTHERWISE NOTED. 12.CONNECTIONS SHALL BE A MINIMUM OF TWO 3/4 INCH DIAMETER ASTM A325N BOLTS OR A WELD DEVELOPING A MINIMUM OF 10 KIPS.
- 13.SUBMIT DRAWINGS AND CALCULATIONS OF TYPICAL CONNECTION DETAILS FOR APPROVAL PRIOR TO PROCEEDING WITH DETAILING. 14.DESIGN BEAM CONNECTIONS FOR MINIMUM ONE-HALF OF THE TOTAL ALLOWABLE UNIFORM LOAD PER AISC BEAM LOAD TABLES,
- UNLESS NOTED OTHERWISE. CONNECTIONS FOR COMPOSITE BEAMS SHALL BE DESIGNED FOR END REACTIONS NOTED ON THE DRAWINGS OR A MINIMUM TWO-THIRDS OF THE TOTAL ALLOWABLE UNIFORM LOAD PER AISC BEAM LOAD TABLES, WHICHEVER IS GREATER.
- 15.PROVIDE ADEQUATE LATERAL BRACING AND VERTICAL SUPPORT FOR THE SAFE ERECTION AND ALIGNMENT OF THE STRUCTURAL STEEL. 16.FURNISH MEMBERS OF PROPER LENGTH AND ASSEMBLE WITHOUT EXCESSIVE USE OF FILLERS – FIELD VERIFY DIMENSIONS BEFORE FABRICATION WHEN CONNECTING TO EXISTING STRUCTURE. JOIN AND ASSEMBLE MEMBERS WITHOUT SHARP PROJECTIONS, SERRATED EDGES, SHARP EDGES OR SHARP CORNERS AT JOINTS. COPE, BLOCK, MITER AND GRIND EDGES WITH
- CARE. FURNISH MEMBERS FREE FROM TWISTS, BENDS, DISTORTIONS AND OPEN JOINTS. 17.GROUT PADS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN SEVEN DAYS.
- 18.ANCHOR BOLTS AND SETTING PLANS SHALL BE FURNISHED BY THE STRUCTURAL STEEL FABRICATOR AND SET BY THE FOUNDATION CONTRACTOR. 19.ALL WELDED CONNECTIONS SHALL BE VISUALLY INSPECTED, WITH 15% MEASURED AT RANDOM. VISUALLY INSPECT THAT ALL
- BOLTED CONNECTIONS ARE PROPERLY FABRICATED, WITH PROPER COMPONENTS, AND THE JOINT IS DRAWN INTO FIRM CONTACT. 20.ELEVATIONS ARE REFERENCED FROM FINISH FLOOR ELEVATION = 100'-0". ACTUAL FINISH FLOOR ELEVATION xxx.xx= 100'-0".
- 21. THE USE OF A GAS-CUTTING TORCH IN THE FIELD FOR CUTTING HOLES OR FOR CORRECTING FABRICATION ERRORS WILL NOT BE PERMITTED ON STRUCTURAL FRAMING MEMBERS EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER FOR EACH SPECIFIC CONDITION.
- 22.ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH AN APPROVED CORROSION RESISTANT PRIMER SUCH AS "TNEMEC PRIMER 10-99" OR APPROVED EQUIVALENT. ALL STEEL SHALL BE PAINTED IN STRICT ACCORDANCE WITH THE AISC SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS. PRIOR TO PAINTING, ALL STEEL SURFACES SHALL BE PREPARED IN ACCORDANCE WITH SSPC-SP3, REMOVE LOOSE RUST, LOOSE MILL SCALE AND SPLATTER SLAG OR FLUX DEPOSITS, ALL PAINTS
- SHALL BE APPROVED BY THE ENGINEER PRIOR TO THEIR USE. 23.SHOP PRIME AND PAINT STRUCTURAL STEEL. FIELD TOUCH-UP FINISH COAT AFTER ERECTION. 24.STEEL ABOVE THE ROOF AND OUTSIDE THE BUILDING ENVELOPE (EXPOSED TO WEATHER) SHALL BE CLEANED PER SSPC-SP6 AND
- HOT DIP GALVANIZED. 25.REFERENCE ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS SHAPES AND PLATES NOT SHOWN ON THE STRUCTURAL
- DRAWINGS. THESE ITEMS SHALL BE SHOP WELDED TO THE STRUCTURAL FRAMING TO MINIMIZE FIELD WELDING. 26. RUNWAY BEAMS AND BRIDGE BEAM SHALL MEET OR EXCEED THE REQUIREMENTS FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL, ADDITIONALLY, THE RUNWAY BEAMS SHALL BE ERECTED SUFFICIENTLY SQUARE, PARALLEL AND LEVEL TO PERMIT TRAVERSING OF THE BRIDGE BEAM WITHOUT BINDING OF THE END TRUCK WHEELS OR FRAME ALONG THE RUNWAY LENGTH. THE CONTRACTOR SHALL TEST THE CRANE THROUGH ITS FULL RANGE OF TRAVEL UNDER MAXIMUM LOAD. 27.PROVIDE HOLES IN THE BEAM TOP FLANGE AS REQUIRED TO MOUNT THE BEAM TO THE END TRUCKS.
- SPECIAL INSPECTION NOTES
- I. SPECIAL STRUCTURAL INSPECTIONS SHALL COMPLY WITH CHAPTER 17 OF THE MICHIGAN BUILDING CODE. 2. SPECIAL STRUCTURAL INSPECTION IS REQUIRED IN ADDITION TO ANY INSPECTIONS REQUIRED BY THE LOCAL BUILDING
- DEPARTMENT OR GOVERNING OFFICIAL.
- 3. SPECIAL STRUCTURAL INSPECTIONS SHALL BE PERFORMED ON, BUT ARE NOT LIMITED TO, THE FOLLOWING ITEMS: 4. STRUCTURAL WELDING: PER SECTION 1705.2.2.1.
- A.ALL WELDING INSPECTIONS SHALL BE COMPLETED BY AN AWS CERTIFIED INSPECTOR. B.ALL WELDS SHALL BE VISUALLY INSPECTED. 100% OF ALL GROOVE WELDS SHALL RECEIVE RADIOGRAPHIC OR ULTRASONIC TESTING. MAGNETIC PARTICLE TEST 20% OF ALL FILLET WELDS.
- C.NON-DESTRUCTIVE TESTING OF ALL COMPLETE PENETRATION WELDS. D.VERIFICATION OF CURRENT WELDER'S CERTIFICATION.
- E.WELD INSPECTION OF SHOP FABRICATIONS. 5. HIGH STRENGTH BOLTING: PER SECTION 1705.2.1
- A.VERIFICATION OF SNUG TIGHT OR SLIP-CRITICAL INSTALLATION AS PER PLANS. B.VERIFICATION IN PLANS WHERE/IF A325-X BOLTS ARE REQUIRED.
- 6.EXPANSION, EPOXY AND ADHESIVE ANCHORS:
- A.DURING THE PLACEMENT OF ALL ANCHORS. B.ALL ANCHORS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND APPLICABLE ICBO REPORTS. 7.DUTIES AND RESPONSIBILITIES OF THE SPECIAL STRUCTURAL INSPECTOR:
- A.THE SPECIAL STRUCTURAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. B.THE SPECIAL STRUCTURAL INSPECTOR SHALL REPORT TO THE CONTRACTOR UPON ARRIVING ON SITE TO DETERMINE
- WHETHER ANY DESIGN TEAM COMMUNICATIONS TO THE CONTRACTOR AFFECT THE WORK TO BE REVIEWED. THE SPECIAL STRUCTURAL INSPECTOR SHALL LEAVE A COPY OF EACH OF HIS REPORTS WITH THE CONTRACTOR UPON LEAVING SITE.
- C.THE SPECIAL STRUCTURAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OR ARCHITECT OF RECORD, AND OTHER DESIGNATED PERSONS WITHIN 24 HOURS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY
- AND TO THE BUILDING OFFICIAL. D.THE SPECIAL STRUCTURAL INSPECTOR IS NOT AUTHORIZED TO APPROVE ANY CHANGES TO THE CONTRACT DOCUMENTS. ANY VARIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR AND ENGINEER OR ARCHITECT OF RECORDS.
- E.THE CONTRACTOR SHALL PROVIDE SAFE ACCESS TO ALL ITEMS REQUIRING SPECIAL STRUCTURAL INSPECTION. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO, LADDERS, SCAFFOLDING, AND MAN LIFTS. F.THE SPECIAL STRUCTURAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.

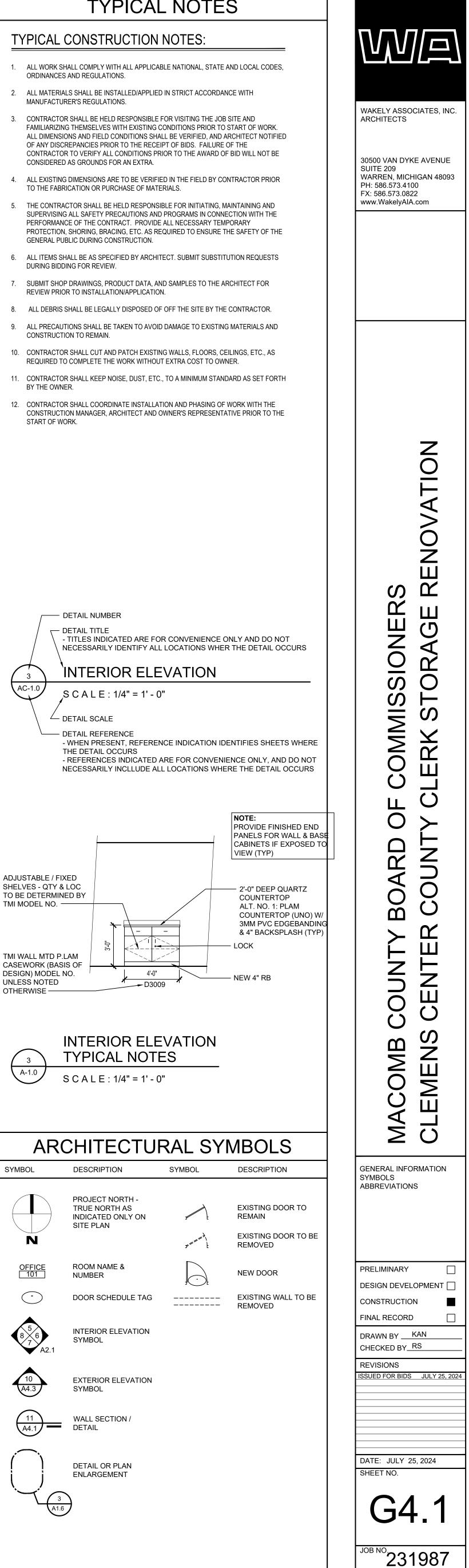
# ARCHITECTURAL ABBREVIATION LIST

							DESCRIPTION	╞
ABBREVIATION	DESCRIPTION AIR CONDITIONING & VENTILATION	ABBREVIATION dB	DESCRIPTION	ABBREVIATION	DESCRIPTION JANITORS CLOSET	ABBREVIATION QT	DESCRIPTION QUARRY TILE	
A/C & VENT A/E AB	AIR CONDITIONING & VENTILATION ARCHITECT-ENGINEER ARCHITECT BOLT	dB DBL ACT DR DECON	DECIBEL DOUBLE ACTING DOOR DECONTAMINATION	JC JC	JANITORS CLOSET JOINT	<b>Q</b> 1		
ABRSV ABRSV THRESH	ABRASIVE ABRASIVE THRESHOLD	DEG DEMO	DEGREE DEMONOLISH DEMOLITION	L	ANGLE	R R	RADIUS RISER	
ACI ACOUS INSUL	AMERICAN CONCRETE INSTITUTE ACOUSTICAL INSULATION	DEPT DET	DEPARTMENT DETAIL	L LAB	LENGTH LABORATORY	RB RC	RESILENT BASE ROOF CONDUCTOR	
ACOUS PNL ACS DR	ACOUSTICAL PANEL ACCESS DOOR	DF DIA	DRINKING FOUNTAIN DIAMETER DIACONAL	LAM LAV	LAMINATED LAVATORY	RCPTR RCVG	RECEPTOR RECEIVING	
ACS PNL ACST ACST SLNT	ACCESS PANEL ACOUSTIC ACOUSTICAL SEALANT	DIAG DIAPH DIFF	DIAGONAL DIAPHRAGM DIFFUSER	LBS LG LH	LABORATORY LONG LEFT HAND	REC REF REF	RECESS OR RECESSED REFERENCE REFRIGERATOR	
ADA ADDL	AMERICANS W/ DISABILITIES ACT ADDITIONAL	DIM DIST	DIMENSION DISTANCE	LHR LN	LEFT HAND REVERSE LINEAR	REG REINF	REGISTER REINFORCE OR REINFORCED	
ADDM ADDN	ADDENDUM ADDITION	DW DL	DISTILLED WATER DEAD LOAD	LKR LLH	LOCKER ROOM LONG LEG HORIZONTAL	REV RF	REVISION RADIOGRAPHY & FLOUROSCOPY	
ADJ ADJS	ADJACENT ADJUSTABLE ABOVE FINISHED FLOOD	DMF DN	DAMPROOFING DOWN	LLV LO LPT	LONG LEG VERTICAL LOUVER OPENING	RFG RFO	ROOFING ROOF OPENING	
AFF AGGR AHU	ABOVE FINISHED FLOOR AGGREGATE AIR HANDLING UNIT	DO DR DRP	DOOR OPENING OR DATA OUTLET DOOR DECAY RETARDANT PLYWOOD	LPT LT WT LTG	LOW POINTLTLIGHT LIGHTWEIGHT LIGHTING	RH RHB RHR	RIGHT HAND ROOF HOSE BOX RIGHT HAND REVERSE	
ALT ALUM	ALTERATIONS	DRW DS	DECAY RETARDANT WOOD DOWNSPOUT	LVR	LOUVER	RM RND	ROOM ROUND	
ANES ANOD	ANESTHESIA, ANESTESIOLOGY ANODIZED	DT DW	DRAIN TILE DISTILED WATER	MACH	MACHINE	RO RR	ROUGH OPENING RAILROAD	
ANSI APC	AMERICAN NATIONAL STANDARDS INSTITUTE ACOUSTICAL PANAL CEILING	DWG DWL	DRAWING DOWEL	MAG MAR	MAGNET OR MAGNETIC MARBLE	RS RSF	ROOF SUMP RESILIENT SHEET FLOORING	
APPROX ARCH ASPH	APPROXIMATE ARCHITECTURAL ASPHALT	E	EAST	MAS MATL MAX	MASONARY MATERIAL MAXIMUM	RTF RTNG RTU	RESILIENT TILE FLOORING RETAINING ROOF TOP UNIT	
ASFN ASTM ATC	AMERICAN SOCIETY FOR TESTING MATERIALS ACOUSTICAL TILE CEILING	E EA EF	EACH EACH FACE	MB MBC	MARKER BOARD MICHIGAN BUILDING CODE	RV RVS	ROOF VENTILATOR REVERSE	
AUTO AVG	AUTOMATIC AVERAGE	EIFS EJ	EXTERIOR INSULATION & FINISH SYSTEM EXPANDING JOINT	MC MCA	MICELLANEOUS CHANNEL MEDICAL COMRESSED AIR			
		EKG EL	ELECTRO-CARDIOGRAM ELEVATION	MCL MCP	METAL CEILING (LINER) METAL CEILING (PAN)	S S	SOUTH S-SHAPE STEEL MEMBER	
B PL B/B BC	BASE PLATE BACK TO BACK BOTTOM CHORD	ELEC ELEV EMBED	ELECTRICAL OR ELECTRONIC ELEVATOR EMBEDMENT	MECH MED MEMB	MECHCANICAL MEDICAL MEMBRANE	SAB SAF SB	SOUND ATTENUATION BLANKET SPRAY APPLIED FIREPROOFING SOIL BORING	
BC BD BEV	BOARD BEVELED	EMBED EMER EMER SHR	EMBEDMENT EMERGENCY EMERGENCY SHOWER	MEMB MEMB RFG MEZZ	MEMBRANE MEMBRANE ROOFING MEZZANINE	SB SCHED SDG	SCHEDULE SIDING	
BF BF	BARRIER FREE BOTH FACES	EMER SHR/EWS ENCL	EMERGENCY SHOWER/EYE WASH ENCLOSURE	MFG MH	MANUFACTURING MANHOLE	SE SECT	SOUTHEAST SECTION	
BITUM BL	BITUMINOUS BUILDING LINE	ENTR EQ	ENTRANCE EQUAL	MIN MISC	MINIMUM MISCELLANEOUS	SECY SH	SECRETARY SHOWER	
BLDG BLDG DAT	BUILDING BUILDING DATUM	EQUIP ER	EQUIPMENT EMERGENCY ROOM	MO MOD BIT	MASONRY OPENING MODIFIED BITUMEN	SHT SI	SHEET STEEL & IRON WORK	
BLKG BLW BM	BLOCKING BELOW	ETR EW	EXISITING TO REMAIN EACH WAY	MR MRI	MOISTURE RESISTANT MAGNETIC RESONANCE IMAGING MADRI E THRESHOLD	SIM SLDG	SIMILAR SLIDING SLIDING WINDOW	
BM BOS BOT	BEAM BOTTOM OF STEEL BOTTOM	EWC EWH EWS	ELECTRIC WATER COOLER ELECTRIC WATER HEATER EYE WASH STATION	MRT MTC MTD	MARBLE THRESHOLD METAL TOILET COMPARTMENT MOUNTED	SLDG WDW SLNT SLV	SLIDING WINDOW SEALANT SHORT LEG VERTICAL	
BR BRKT	BEDROOM BRACKET	EX EXC	EXISTING EXCAVATE	MTL MTL FAB	METALIC OR METAL METAL FABRICATIONS	SM SP	SHEET METAL SHAFT PARTITION	
BRZ BS	BRONZE BOTH SIDES	EXH EXIST	EXHAUST EXISTING	MULL	MULLION	SPEC SPKLR	SPECIFICATION SPRINKLER	
BSMT BT	BASEMENT BENT	EXTR	EXTRUDED	N	NORTH	SQ SSK	SQUARE SERVICE SINK	
BTWN BULLN BUR	BETWEEN BULLETIN BUILT-UP ROOFING	F/F FD	FACE TO FACE FLOOR DRAIN	N2 N20 NARC	NITROGEN NITROUS OXIDE NARCOTICS	SST STA STAG	STAINLESS STEEL STATION STAGGERED	
DOIX		FD FE FEC	FLOOR DRAIN FIRE EXTINGUSHER FIRE EXTINGUSHER CABINET	NARC NATL NC	NARCOTICS NATIONAL NOISE CRITERIA	STAG STC STD	STAGGERED SOUND TRANSMISSION CLASS STANDARD	
С С ТО С	CHANNEL CENTER TO CENTER	FH FHR	FLAT HEAD FIRE HOSE RACK/ REEL	NE NFPA	NORTH EAST NATIONAL FIRE PROTECTIONA ASSOCIATION	STIF STL	STIFFENER STEEL	
CA CAB	COMPRESSED AIR CABINET	FIN FIP	FINSIH OR FINISHED FOAMED-IN-PLACE	NIC NL	NOT IN CONTACT NIGHT LIGHT	STOR STRUCT	STORAGE STRUCTURAL	
CANTL CATH	CANTILEVER CATHETERIZE CATHETER	FIXT FJ	FIXTURE FALSE JOINT	NO NOM	NUMBER OR NUMBERS NOMINAL	STRUCT STL SURF	STRUCTURAL STEEL SURFACE	
CB CEM CER	CATCH BASIN CEMENT CERAMIC	FLASH FLG FLR	FLASHING FLANGE FLOOR	NOUR NS NSF	NOURISHMENT NURSE STATION NATIONAL SANITATION FOUNDATION	SUSP SV SW	SUSPENDED OR SUSPENSION SHEET VINYL SOUTH WEST	
CER CF/CI CF/OI	CERAMIC CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED CONTRACTOR FURNISHED/ OWNER INSALLED	FLR FM FNDN	FLOOR FACTORY MUTUAL FOUNDATION	NSF NW	NATIONAL SANITATION FOUNDATION NORTHWEST	SW SW SWD-FR	SOUTH WEST SWITCH SHEATHING WOOD-FIRE RETARDANT	
CFMF CG	COLD-FORMED METAL FRAMING CORNER GUARD	FOC FR	FACE OF COLUMN FIRE RATED	02	OXYGEN	SYM	SYMMETRICAL	
CH CH BD	CORNER HOOK CHALK BOARD	FRP FRPFG	FIRE RATED PLYWOOD FIREPROOFING	O/O OBS	OUT TO OUT OBSERVATION	т	TREAD	
CHKD CI	CHECKERED CAST IRON	FRW FT	FIRE RATED WOOD FOOT OR FEET	OBSC GL OBW	OBSCURE GLASS OBSERVATION WINDOW	T & G T & R	TOUNGUE & GROOVE TREAD & RISER	
CR CJ	CIRCLE CIRCULAR CIRCULATION CONTROL JOINT	FTG FURN	FOOTING FURNITURE	OC OD	ON CENTER OUTSIDE DIAMETER	TA TB	TOILET ACCESSORIES TACK BOARD	
CL CLG CLIN	CENTERLINE CEILING CLINICAL	a	GRAM	OF OF/CI OF/OI	OUTSIDE FACE OWNER FURNISHED/ CONTRACTOR INSTALLED OWNER FURNISHED/ OWNER INSTALLED	TBD TEL TEMP	TO BE DETERMINED TELEPHONE TEMPERATURE	
CLO CLR	CLOSET CLEAR	g GA GALV	GAUGE GALVANIZED	OFF OFRC	OFFICE OVERFLOW ROOF CONDUCTOR	TERR THD	TERRAZZO THREAD	
CMU CNVR	CONCRETE MASONARY UNIT CONVEYOR	GCW GDR	GLAZED CURTAINWALL GUARDRAIL	OFRS OH DR	COVERFLOW ROOF SUMP OVERHEAD DOOR	THK THRESH	THICK OR THICKNESS THRESHOLD	
CO CO2	CLEANOUT CARBON DIOXIDE	GEN GFCI	GENERAL GROUND FAULT CIRCUIT INTERRUPTER	OPH OPNG	OPPOSITE HAND OPENING	TK BD TOC	TACKBOARD TOP OF CONCRETE (ELEVATION)	
COL COMO	COLUMN COMPOSITION	GFRP GHT	GLASS-FIBER REINFORCED PLSTIC GLAZED HOLLOW TILE	OPP ORIG	OPPOSITE ORIGINAL	TOIL TOIL RM	TOILET TOILET ROOM	
CONC CONF CONN	CONCRETE CONFERENCE CONNECTION	GI GL GR	GALVANIZED IRON GLASS, GLAZING GRADE	ORN OSHA Oz	ORNAMENTAL OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION OUNCE	TOR TOS TOW	TOP OF RAIL (ELEVATION) TOP OF STEEL (ELEVATION) TOP OF WALL (ELEVATION)	
CONSTR CONSTR JT	CONNECTION CONSTRUCTION CONSTRUCTION JOINT	GR BM GRAD	GRADE GRADE BEAM GRADIENT	0z	OUNCE	TRAN TV	TRANSOM TELEVISION	
CONT	CONTINUATION, CONTINUE, CONTINOUS CONTRACTOR	GRL GRTG	GRILLE GRATING	PACU PB	POST ANESTHESIA UNIT PUSH BUTTON	ТҮР	TYPICAL	
CORR CPRS	CORRIDOR COMPRESSIBLE, COMPRESSED	GYO	GYPSUM	PC PEND	PIECE OR PIECES PENDENT	UC	UNDERCABINET	
CPS CPI	CARPET (SHEET) CARPET (TILE)	Н	HIGH	PERF PERM	PERFORATED PERMANENT	UG UM		
CPW CR CR	CARPET (WALL BASE) CARD READER CHAIR RAIL	HB HD HDW	HOSE BIBB HEAVY DUTY HARDWARE	PI PL PL GL	POINT OF INTERSECTION PROPERTY LINE PLATE GLASS	UL UN UNO	UNDERWRITERS LABORATORIES UNLESS NOTED UNLESS NOTED OTHERWISE	
CRCMF CRIT	CIRCUMFERENCE CRITICAL	HEX HM	HEXAGON HOLLOW METAL	PLAM PLAS	PLASTIC LAMINATE PLASTER	UR U/S	URINAL UNDERSIDE	
CRS CSK	COURSE COUNTER SINK	HNDRL HORIZ	HANDRAIL HORIZONTAL	PLBG PLT	PLUMMING PLATE OR PLATED			
CSS CT	CLINIC SERVICE SINK CERAMIC TILE	HOSP HPT	HOSPITAL HIGH POINT	PLTC PLYD	PLASTIC LAMINATE TOILET COMPARTIMENT PLYWOOD	VAC VENT	VACUUM VENTILATION OR VENTILATING	
CT CTB	COMPUTED TOMOGRAHY CERAMIC TILE BASE	HR HSKPG	HOUR HOUSE KEEPING	PMF PNEU	PERMANENT METAL FORM PNEUMATIC	VERT VEST	VERTICAL VESTIBULE	
CTR CTRD CTRI	CENTER CENTRAL CENTERED CONTROL	HSS HT HTG	HOLLOW STRUCTURAL SECTIONS HEIGHT HEATING	PNL PORC PORT	PANEL PORCELAIN PORTABLE	VIF VIT VOL	VERIFY IN FIELD VITREOUS VOLUME	
CTRL CU CW	CUBIC CUDIC COLD WATER	HTG HVAC HW	HEATING HEATING VENTAILATION AIR CONDITIONING HOT WATER	PORT POS PP	PORTABLE POSITION PANEL POINT	VWC	VOLUME VINYL WALL COVERING	
		HWY HYD	HIGHWAY HYDRANT	PR PREFAB	PAIR PREFABRICATED	W	WEST	
				PREP PROC	PREPARATION PROCESS OR PROCESSING	W W	WIDE FLANGE SHAPES WIDE OR WIDTH	
								F
								╞
								╞
							<u> </u>	L

# **TYPICAL NOTES**

# TYPICAL CONSTRUCTION NOTES:

- ALL MATERIALS SHALL BE INSTALLED/APPLIED IN STRICT ACCORDANCE WITH
- CONTRACTOR SHALL BE HELD RESPONSIBLE FOR VISITING THE JOB SITE AND OF ANY DISCREPANCIES PRIOR TO THE RECEIPT OF BIDS. FAILURE OF THE
- PERFORMANCE OF THE CONTRACT. PROVIDE ALL NECESSARY TEMPORARY GENERAL PUBLIC DURING CONSTRUCTION.
- DURING BIDDING FOR REVIEW.
- REVIEW PRIOR TO INSTALLATION/APPLICATION.
- 8. ALL DEBRIS SHALL BE LEGALLY DISPOSED OF OFF THE SITE BY THE CONTRACTOR.
- CONSTRUCTION TO REMAIN.
- REQUIRED TO COMPLETE THE WORK WITHOUT EXTRA COST TO OWNER.
- 12. CONTRACTOR SHALL COORDINATE INSTALLATION AND PHASING OF WORK WITH THE START OF WORK.



- ADJUSTABLE / FIXED SHELVES - QTY & LOC TO BE DETERMINED BY TMI MODEL NO. ------TMI WALL MTD P.LAM CASEWORK (BASIS OF

AC-1.0

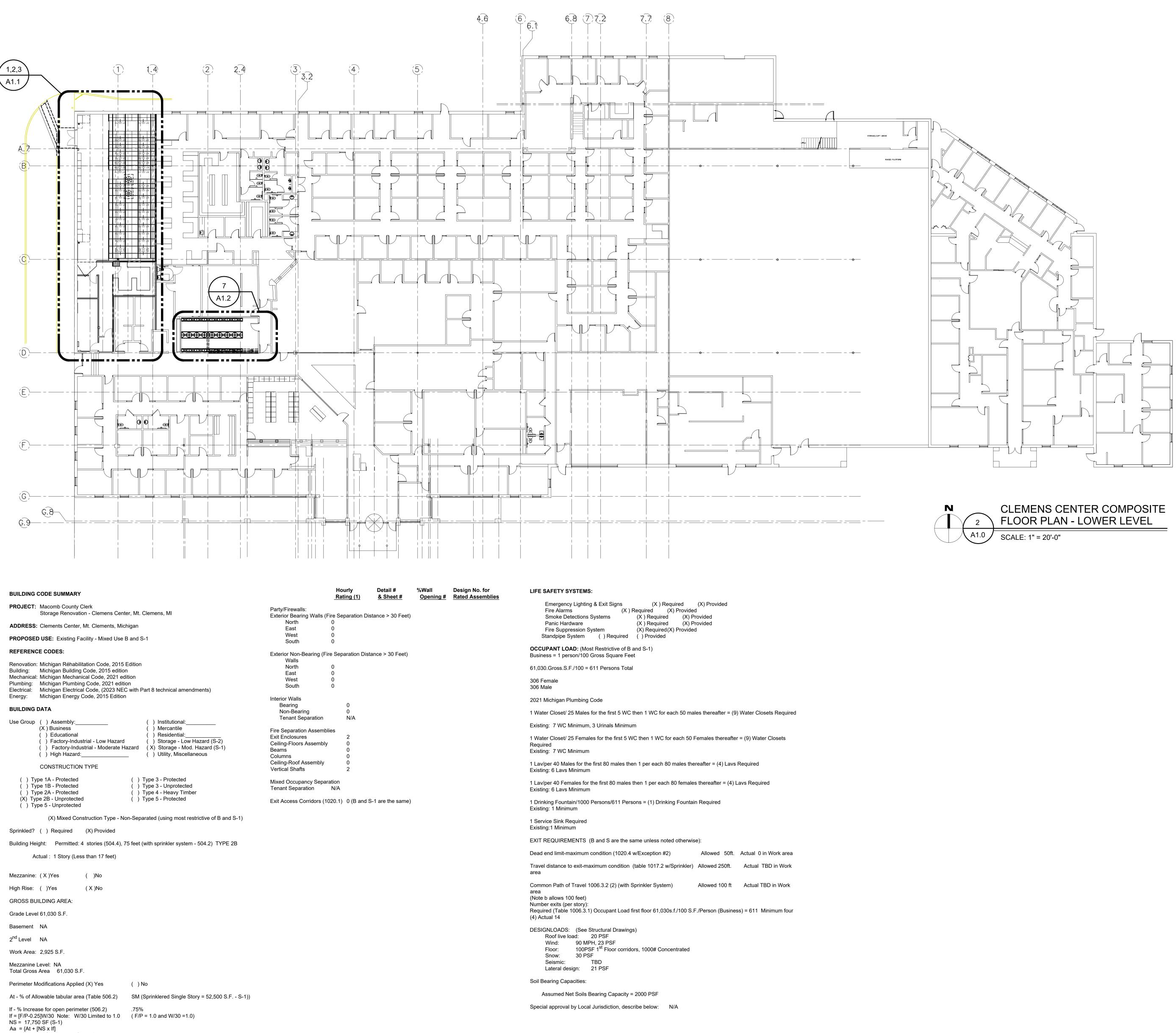
A-1.0

SYMBOL

N



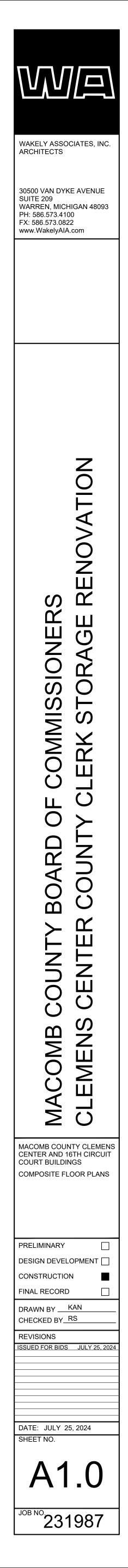
- A4.1 -



Aa = {52,500 s.f. + [17,750s.f. x .75] Aa = 65,625 s.f. = Allowable Building Area TOTAL BLDG AREA = 61,030 S.F. < ALLOWABLE AREA 65,625 S.F. (S-1)

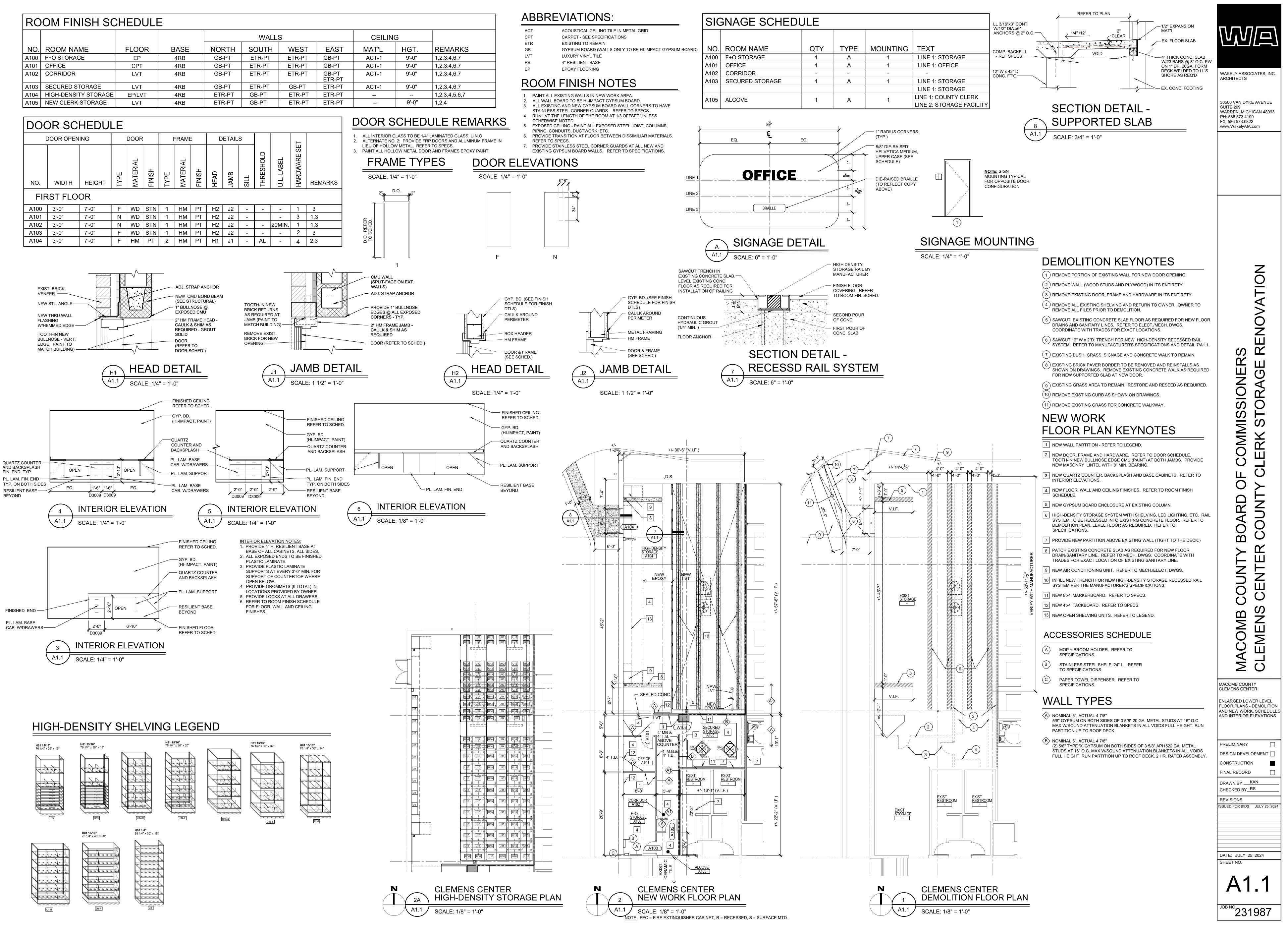
Emergency Lighting & Exit Sig	ns (X)	Required	(X) Provid
Fire Alarms	(X) Required	(X) Provid	ed
Smoke Detections Systems	(X) Requi	ired (X)	Provided
Panic Hardware	(X) Requi	ired (X)	Provided
Fire Suppression System	(X) Requir	red(X) Provid	ed

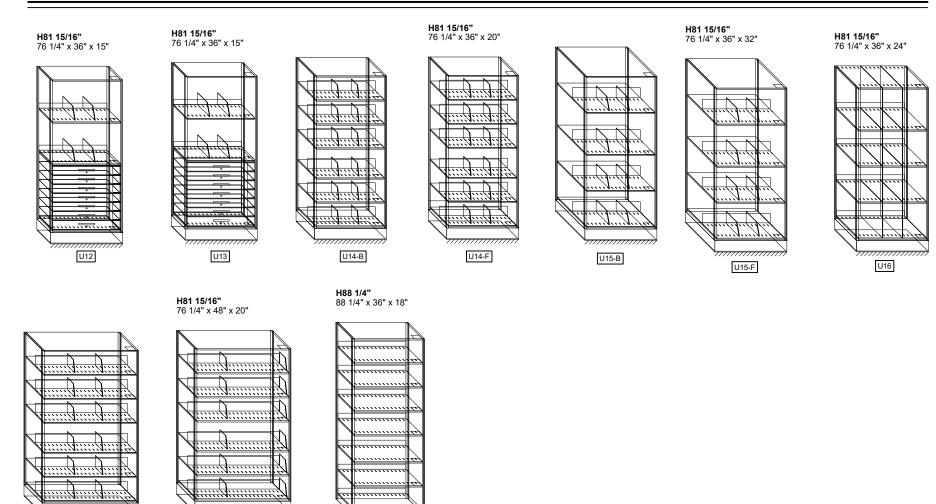
Dead end limit-maximum condition (1020.4 w/Exception #2)	Allowed 50ft.	Actual 0 in Work area
Travel distance to exit-maximum condition (table 1017.2 w/Sprinkler) area	Allowed 250ft.	Actual TBD in Work

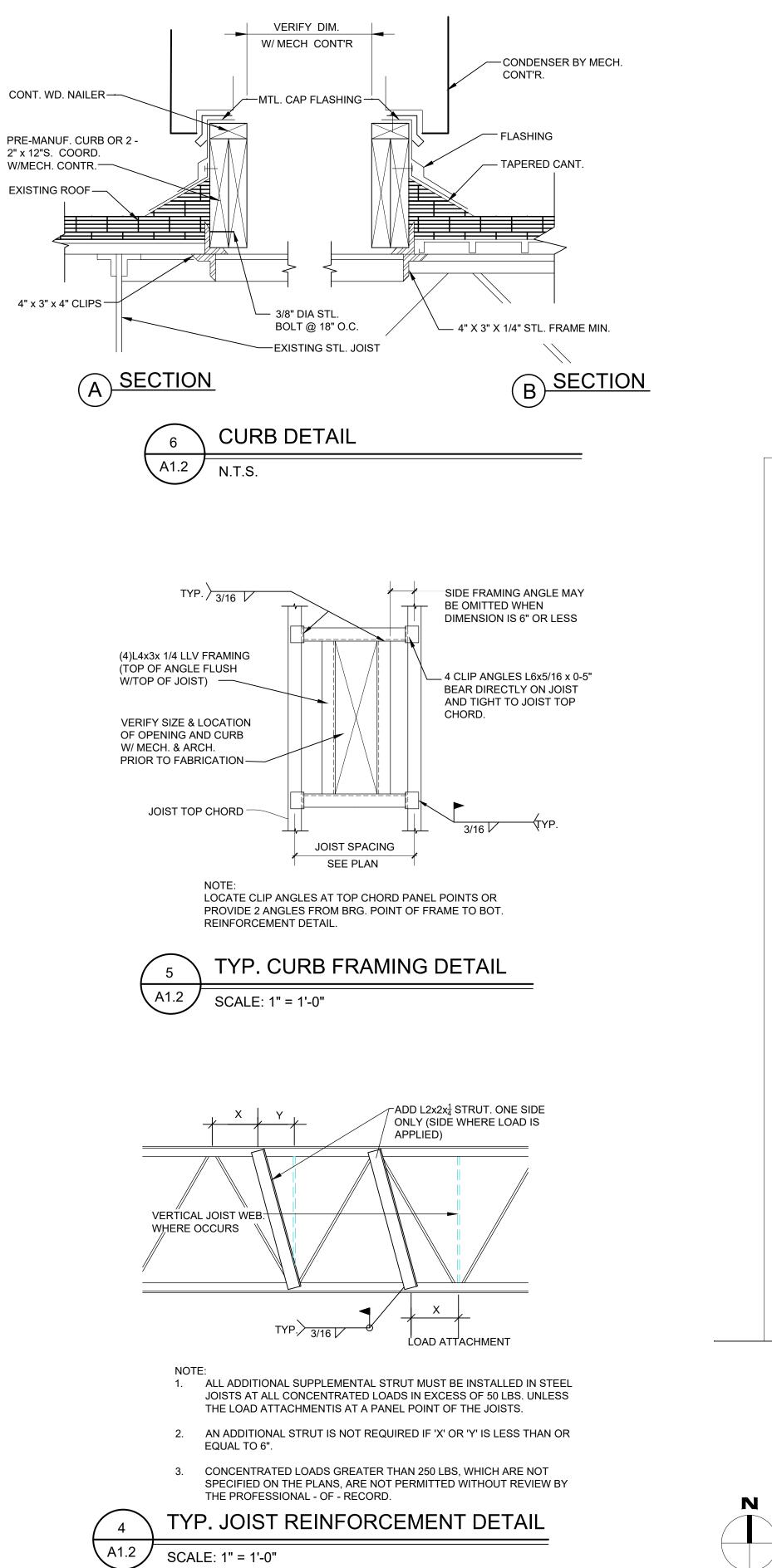


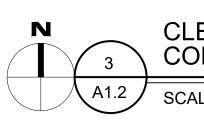
ROOM FINISH SCHEDULE									
				WALLS					
NO.	ROOM NAME	FLOOR	BASE	NORTH	SOUTH	WEST	EAST	N	
A100	F+O STORAGE	EP	4RB	GB-PT	ETR-PT	ETR-PT	GB-PT		
A101	OFFICE	CPT	4RB	GB-PT	ETR-PT	ETR-PT	GB-PT		
A102	CORRIDOR	LVT	4RB	GB-PT	ETR-PT	ETR-PT	GB-PT ETR-PT		
A103	SECURED STORAGE	LVT	4RB	GB-PT	ETR-PT	GB-PT	ETR-PT		
A104	HIGH-DENSITY STORAGE	EP/LVT	4RB	ETR-PT	GB-PT	ETR-PT	ETR-PT		
A105	NEW CLERK STORAGE	LVT	4RB	ETR-PT	GB-PT	ETR-PT	ETR-PT		

DOC	DR SC	HEDU	LE													<u> </u>
	DOOR OPEN		i	DOOR		F	RAME	Ē	D	ETAIL	S					1
NO.	WIDTH	HEIGHT	ТҮРЕ	MATERIAL	FINISH	ТҮРЕ	MATERIAL	FINISH	HEAD	JAMB	SILL	THRESHOLD	U.L. LABEL	HARDWARE SET	REMARKS	3
FIRST FLOOR																
A100	3'-0"	7'-0"	F	WD	STN	1	HM	PT	H2	J2	-	-	-	1	3	
A101	3'-0"	7'-0"	Ν	WD	STN	1	HM	PT	H2	J2	-		-	3	1,3	
A102	3'-0"	7'-0"	Ν	WD	STN	1	HM	PT	H2	J2	-	-	20MIN.	1	1,3	
A103	3'-0"	7'-0"	F	WD	STN	1	HM	PT	H2	J2	-	-	-	2	3	
A104	3'-0"	7'-0"	F	HM	PT	2	НМ	PT	H1	J1	-	AL	-	4	2,3	

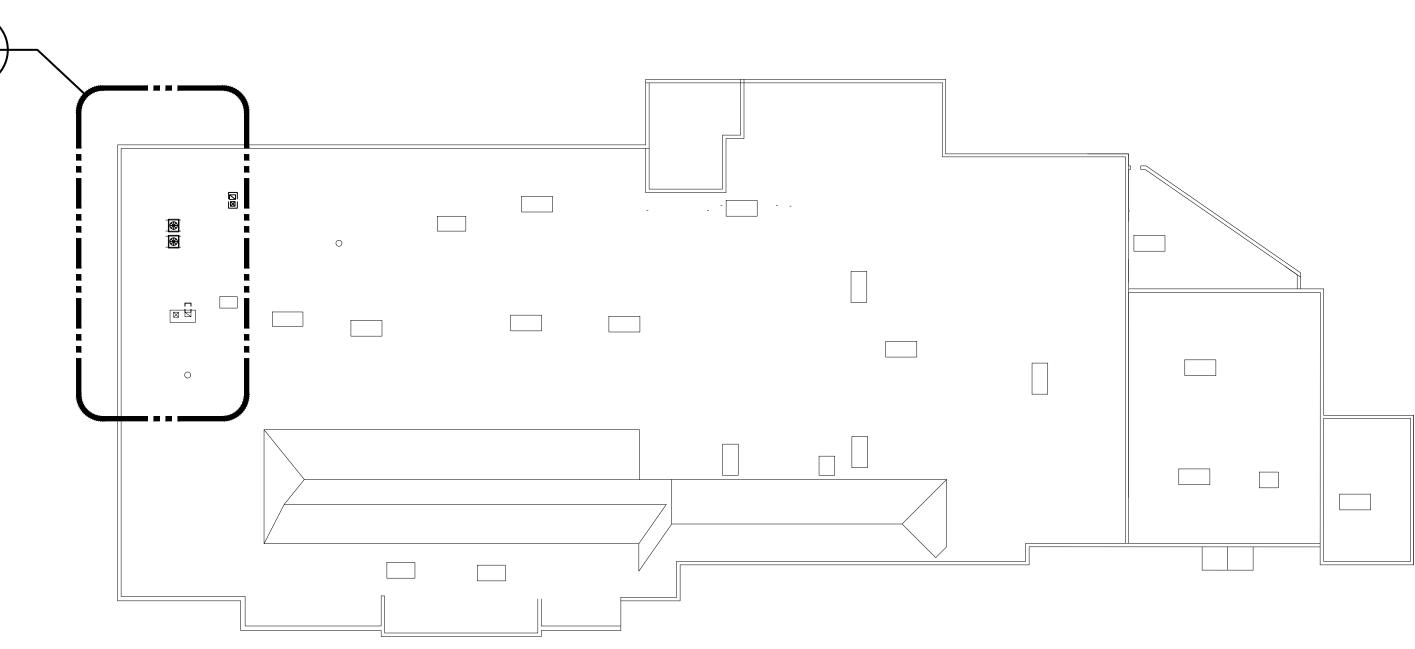






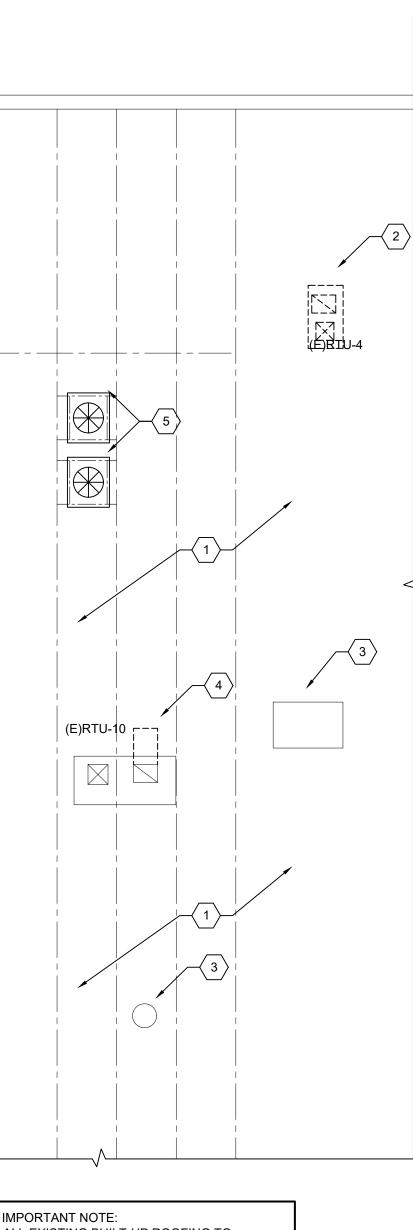


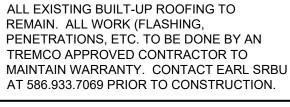
A1.2



CLEMENS CENTER COMPOSITE ROOF PLAN

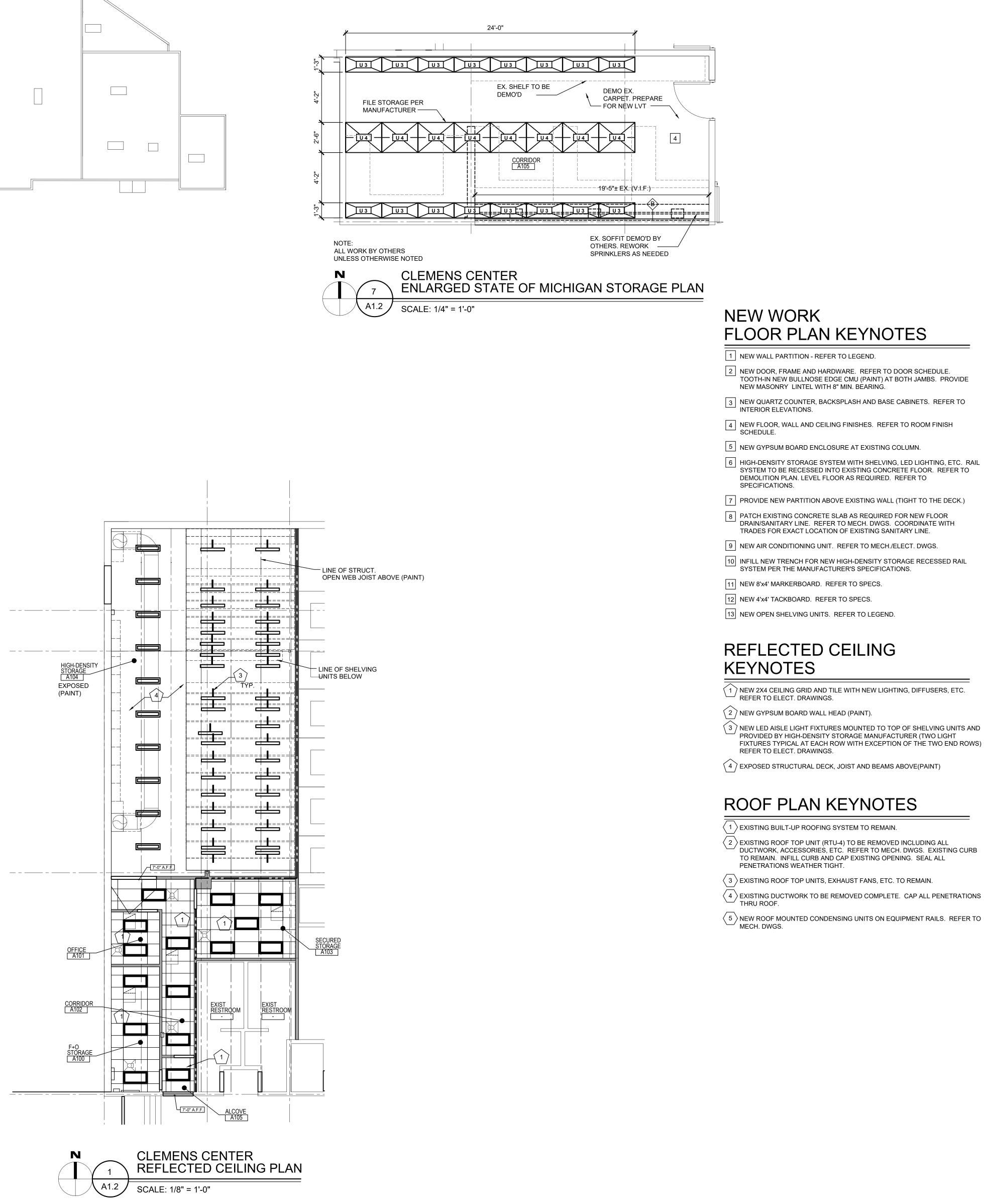
SCALE: 1/32" = 1'-0"





CLEMENS CENTER PARTIAL ROOF PLAN

SCALE: 1/8" = 1'-0"





WAKELY ASSOCIATES, INC. ARCHITECTS

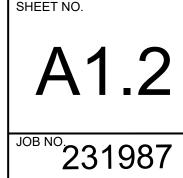
30500 VAN DYKE AVENUE SUITE 209 WARREN, MICHIGAN 48093 PH: 586.573.4100 FX: 586.573.0822 www.WakelyAIA.com



ENLARGED REFLECTED CEILING AND ROOF PLAN

LOWER LEVEL

PRELIMINARY
DESIGN DEVELOPMENT
CONSTRUCTION
FINAL RECORD
DRAWN BY <u>KAN</u> CHECKED BY <u>RS</u>
REVISIONS ISSUED FOR BIDS JULY 25, 2024
DATE: JULY 25, 2024



# MECHANICAL ABBREVIATIONS

ABBREV.	DESCRIPTION
AAV	AUTOMATIC AIR VENT / AIR ADMITTANCE VALVE
AD	ACCESS DOOR
AE	AIR EXTRACTOR
AFF	ABOVE FINISHED FLOOR
APD	AIR PRESSURE DROP
ASR	AUTOMATIC SPRINKLER RISER
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER BOTTOM OF DUCT
BOD BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
BWV	BACKWATER VALVE
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CIRC	CIRCULATING
CLG	COOLING
CO	CLEAN OUT
CONT	CONTINUATION OR CONTINUED
CUH	CABINET UNIT HEATER
CV	CONTROL VALVE
DB	DRY BULB TEMPERATURE
DEG	DEGREES
DDC	DIRECT DIGITAL CONTROL
DN	DOWN
DTC	DRAIN TILE CONNECTION
DWH	DOMESTIC WATER HEATER
(E)	EXISTING
,	EXHAUST AIR
EAT EDB	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EJ	EXPANSION JOINT
EL	ELEVATION
ELECT	ELECTRICAL
EMS	ENERGY MANAGEMENT SYSTEM
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB TEMPERATURE
EWC	ELECTRIC WATER COOLER
•F FA	DEGREES FAHRENHEIT FACE AREA (COIL) / FREE AREA (LOUVER)
FC	FLEXIBLE CONNECTION
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FLA	FULL LOAD AMPS
FLR	FLOOR FEET PER MINUTE
FPM FFD	FUNNEL FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FS	FLOOR SINK
FT	FEET
FURN	FURNISHED
FV	FACE VELOCITY
FVC	FIRE VALVE CABINET
GAL	GALLON
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
НВ НО	HOSE BIBB HUB OUTLET
HP	HORSEPOWER

# MECHANICAL ABBREVIATIONS

## MECHANICAL ABBREVIATIONS

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
HR	HOUR	UR	URINAL			CA	COMPRESSED AIR PIPING
HTG	HEATING	VD	VOLUME DAMPER (MANUALLY ADJUSTABLE)	S J	RECTANGULAR TAKE-OFF (SINGLE LINE)	CD	CONDENSATE DRAIN PIPING
HYD	HYDRANT	VTR	VENT THRU ROOF		RECTANGULAR TAKE–OFF (DOUBLE LINE)	DT	DRAIN TILE
				, Ar			
HZ	HERTZ	W	WASTE	<del>ب کر را</del>	ROUND TAKE-OFF (SINGLE LINE)	——F——	FIRE PROTECTION PIPING
ID	INSIDE DIAMETER	V&W	WASTE AND VENT		ROUND TAKE–OFF (DOUBLE LINE)	FOR	FUEL OIL RETURN PIPING
IE	INVERT ELEVATION	WB	WET BULB TEMPERATURE	f g f		FOS	FUEL OIL SUPPLY PIPING
IN	INCHES	WC	WATER CLOSET		SPIN-IN FITTING (WITH VOLUME DAMPER)	G	NATURAL GAS PIPING
INST	INSTALLED	WG	WATER GAUGE			BCW	BOOSTED-DOMESTIC COLD WATER PIPING
INV	INVERT	WH	WALL HYDRANT		ELBOW (WITH TURNING VANES)	——BHW——	BOOSTED-DOMESTIC HOT WATER PIPING
ISP	INTERNAL STATIC PRESSURE				RADIUS RECTANGULAR ELBOW	CW	DOMESTIC COLD WATER PIPING
IW	INDIRECT WASTE					NPCW	NON POTABLE COLD WATER PIPING
KW	KILOWATT	MECH	IANICAL PIPING SYMBOLS		RADIUS ROUND ELBOW	TW	TEMPERED WATER PIPING
LAT	LEAVING AIR TEMPERATURE				RECTANGULAR ELBOW UP	———HW———	DOMESTIC HOT WATER PIPING
LAV	LAVATORY	ABBREV.	DESCRIPTION			—HW(140°F)—	DOMESTIC 140°F HOT WATER PIPING
LBS/HR	POUNDS PER HOUR	0	PIPE ELBOW UP		ROUND ELBOW UP	HWR	DOMESTIC HOT WATER RETURN PIPING
LDB	LEAVING DRY BULB TEMPERATURE		PIPE ELBOW DOWN		RECTANGULAR ELBOW DOWN		SANITARY WASTE PIPING
LRA	LOCKED ROTOR AMPS		PIPE TEE DOWN		RECTANGULAR ELBOW DOWN	PSAN	PUMPED SANITARY PIPING
LWB	LEAVING WET BULB TEMPERATURE	<b>&gt;</b>	DIRECTION OF FLOW		ROUND ELBOW DOWN	V	VENT PIPING
MAV	MANUAL AIR VENT		UNION	L		ST	STORM SEWER PIPING
MAX	MANUAL AIX VENT		STRAINER		CONCENTRIC TRANSITION (DOUBLE LINE)	PST	PUMPED STORM PIPING
		*		<b>∽−</b> □−− <b>√</b>	CONCENTRIC TRANSITION (SINGLE LINE)		
MBH	1000 BRITISH THERMAL UNITS PER HOUR		CONCENTRIC REDUCER	_	, , , , , , , , , , , , , , , , , , ,		RAIN CONDUCTOR PIPING
MCA	MINIMUM CIRCUIT AMPACITY		ECCENTRIC REDUCER		ECCENTRIC TRANSITION (DOUBLE LINE)	ORC	OVERFLOW RAIN CONDUCTOR PIPING
MECH	MECHANICAL	<del>[]]</del>	EXPANSION JOINT	<u> </u>	ECCENTRIC TRANSITION (SINGLE LINE)	——CHWR——	CHILLED WATER RETURN PIPING
MFR	MANUFACTURER		FLEXIBLE CONNECTION		ECCENTRIC TRANSITION (SINGLE LINE)	——CHWS——	CHILLED WATER SUPPLY PIPING
MH	MANHOLE	——————————————————————————————————————	PIPE ANCHOR		INCLINED RISE IN DIRECTION OF AIR FLOW (DOUBLE LINE)	CWR	CONDENSER WATER RETURN PIPING
MIN	MINIMUM		PIPE GUIDE	R	INCLINED RISE IN DIRECTION OF AIR FLOW	CWS	CONDENSER WATER SUPPLY PIPING
MISC	MISCELLANEOUS	]	PIPE CAP OR PLUG	<u>∽ i<sup>R</sup>i </u> ,	(SINGLE LINE)	——HHWR——	HEATING HOT WATER RETURN PIPING
MOD	MOTOR OPERATED DAMPER (AUTOMATIC)		ISOLATION VALVE		INCLINED DROP IN DIRECTION OF AIR FLOW	——HHWS——	HEATING HOT WATER SUPPLY PIPING
MOP	MAXIMUM OVER-CURRENT PROTECTION		CIRCULATING PUMP		(DOUBLE LINE)	HPLR	HEAT PUMP LOOP RETURN PIPING
N.C.	NOISE CRITERIA		GLOBE VALVE	<u>∽ ⊢ </u> ⊢ ∽	INCLINED DROP IN DIRECTION OF AIR FLOW (SINGLE LINE)	HPLS	HEAT PUMP LOOP SUPPLY PIPING
NIC	NOT IN CONTRACT		BALL VALVE	Į į	FLEXIBLE CONNECTION	RL	REFRIGERANT LIQUID PIPING
NC	NORMALLY CLOSED	/×/	BUTTERFLY VALVE	Ê <u></u>		RS	REFRIGERANT SUCTION PIPING
NO	NORMALLY OPEN	<u>x</u>	ANGLE VALVE		FLEXIBLE DUCT CONNECTION TO SUPPLY DIFFUSER	HGB	HOT GAS BY–PASS PIPING
NOM	NOMINAL		CHECK VALVE (SWING)		DIFFUSER	GXHR	GEO HEAT EXCHANGE RETURN
OA	OUTSIDE AIR		CHECK VALVE (SPRING)	<u>ب کر</u>	SUPPLY DIFFUSER	GXHS	GEO HEAT EXCHANGE SUPPLY
OBD	OPPOSED BLADE DAMPER	IQF	PLUG VALVE			STM	STEAM PIPING
OC	ON CENTER / CENTER TO CENTER	——————————————————————————————————————	NEEDLE VALVE		LINEAR SLOT DIFFUSER	HPS	HIGH PRESSURE STEAM PIPING
OD	OUTSIDE DIAMETER	*	OUTSIDE SCREW AND YOKE VALVE (OS&Y)	\$ <u> </u>	RETURN OR EXHAUST GRILLE	LPS	LOW PRESSURE STEAM PIPING
OED	OPEN ENDED DUCT	₩	PRESSURE REGULATING VALVE			CR	STEAM CONDENSATE RETURN PIPING
	OVERFLOW ROOF SUMP				TRANSFER GRILLE	PCR	
ORS			SOLENOID VALVE		CROSS SECTION OF SUPPLY AIR DUCT		PUMPED STEAM CONDENSATE RETURN PIPING
OS&Y	OUTSIDE SCREW AND YOKE						LOW PRESSURE CONDENSATE PIPING
PD	PRESSURE DROP (FEET OF WATER)	لى م	CENTRIFUGAL FAN		CROSS SECTION OF EXHAUST OR RETURN AIR DUCT	HPC	HIGH PRESSURE CONDENSATE PIPING
PRV	PRESSURE REDUCING VALVE	40	AUTOMATIC GAS SHUT-OFF VALVE		EXISTING	———MA———	MEDICAL AIR PIPING
PSIA	POUNDS PER SQUARE INCH – ABSOLUTE	<u> </u>	TRAP (PLAN VIEW)	D	FIRE DAMPER (HORIZONTAL)	N	NITROGEN GAS PIPING
PSIG	POUNDS PER SQUARE INCH – GAUGE		FLOOR DRAIN / FUNNEL FLOOR DRAIN (PLAN VIEW)		NEW	02	OXYGEN GAS PIPING
PT	PRESSURE / TEMPERATURE PORT	Y _\$	FLOOR DRAIN / FUNNEL FLOOR DRAIN (ELEVATION)		EXISTING FIRE DAMPER (VERTICAL)	VAC	VACUUM PIPING
RA	RETURN AIR	(Ō)	ROOF SUMP	<b>_</b>	NEW		
RH	RELATIVE HUMIDITY		CLEAN OUT (IN FLOOR)		EXISTING		
REQD	REQUIRED		CLEAN OUT (IN LINE)		SMOKE DAMPER		
REL.A	RELIEF AIR	wco	CLEAN OUT (WALL)	•	NEW		
RPM	REVOLUTIONS PER MINUTE	BFP	BACKFLOW PREVENTER		EXISTING COMBINATION FIRE/SMOKE DAMPER		
RPZ	REDUCED PRESSURE ZONE		WATER METER ASSEMBLY		NEW (VERTICAL)		
RS	ROOF SUMP	-+	HOSE BIBB, WALL HYDRANT				
SA	SUPPLY AIR		DIRECTION OF PIPE PITCH		EXISTING COMBINATION FIRE/SMOKE DAMPER (HORIZONTAL)		
SH	SHOWER	$\odot$	SPRINKLER HEAD (UPRIGHT)	کر	NEW (HORIZONTAL)		
				]	VOLUME DAMPER (MANUALLY ADJUSTABLE)		
SP Saft / SF	STATIC PRESSURE		SPRINKLER HEAD (SIDEWALL)				
SqFt / SF	SQUARE FOOT/SQUARE FEET	—FS	FLOW SWITCH	— – — M	MOTORIZED DAMPER		
SS	SERVICE SINK	ď,	SIAMESE CONNECTION (YARD)	SD	SMOKE DETECTOR		
TC	TEMPERATURE CONTROL	$\rightarrow$	SIAMESE CONNECTION (WALL MOUNTED)				
Т&Р	TEMPERATURE AND PRESSURE	μĞΗ	FIRE HYDRANT	(C02)	CO2 SENSOR		
TSP	TOTAL STATIC PRESSURE	$\rightarrow$	FLOW MEASURING DEVICE		THERMOSTAT OR		
TYP	TYPICAL	函	BALANCING VALVE	$(\overline{1})$	TEMPERATURE SENSOR		
	UNDERGROUND	Ā	COMBINATION FLOW MEASURING AND BALANCING DEVICE	H	HUMIDISTAT OR HUMIDITY SENSOR		
UG				-			
UG UH	UNIT HEATER		AUTOMATIC AIR VALVE				
	UNIT HEATER UNDERWRITERS LABORATORY	VAA ∏ ↓↓ VAM Ţ	AUTOMATIC AIR VALVE MANUAL AIR VALVE	-J <sup>1</sup> ►►	RETURN OR EXHAUST / SUPPLY AIR FLOW		

# MECHANICAL SYMBOLS

# PIPING LEGEND

### DRAWING INDEX SHT NO DESCRIPTION M0.00 MECHANICAL GENERAL INFORMATION MD1.00 CLEMENS CENTER MECHANICAL DEMOLITION LOWER LEVEL FLOOR P1.00 CLEMENS CENTER PLUMBING NEW WORK LOWER LEVEL FLOOR PLA M1.00 CLEMENS CENTER MECHANICAL NEW WORK LOWER LEVEL FLOOR F M5.00 MECHANICAL DETAILS & SCHEDULES

DRAWING NOTATION							
SYMBOL	DESCRIPTION						
	NEW WORK KEY NOTE NO. 1						
$\Lambda$	DEMOLITION KEY NOTE NO. 1						
<u>AHU-1</u>	EQUIPMENT TAG						
S-1 12x12 150-2	AIR TERMINAL TAG: $S = SUPPLY$ $R = RETURN$ IE: DIFFUSER TYPE = $S-1$ NECK SIZE = $12x12$ CFM = $150$ (TYPICAL FOR 2) $S = SUPPLY$ $R = RETURNE = EXHAUSTT = TRANSFER$						
	EXISTING DEVICES OR EQUIPMENT						
	NEW OR MODIFIED DEVICES OR EQUIPMENT						
<del>\///</del> \	EXISTING SYSTEM COMPONENT TO BE REMOVED						
<b>`</b> ••	POINT OF NEW CONNECTION						

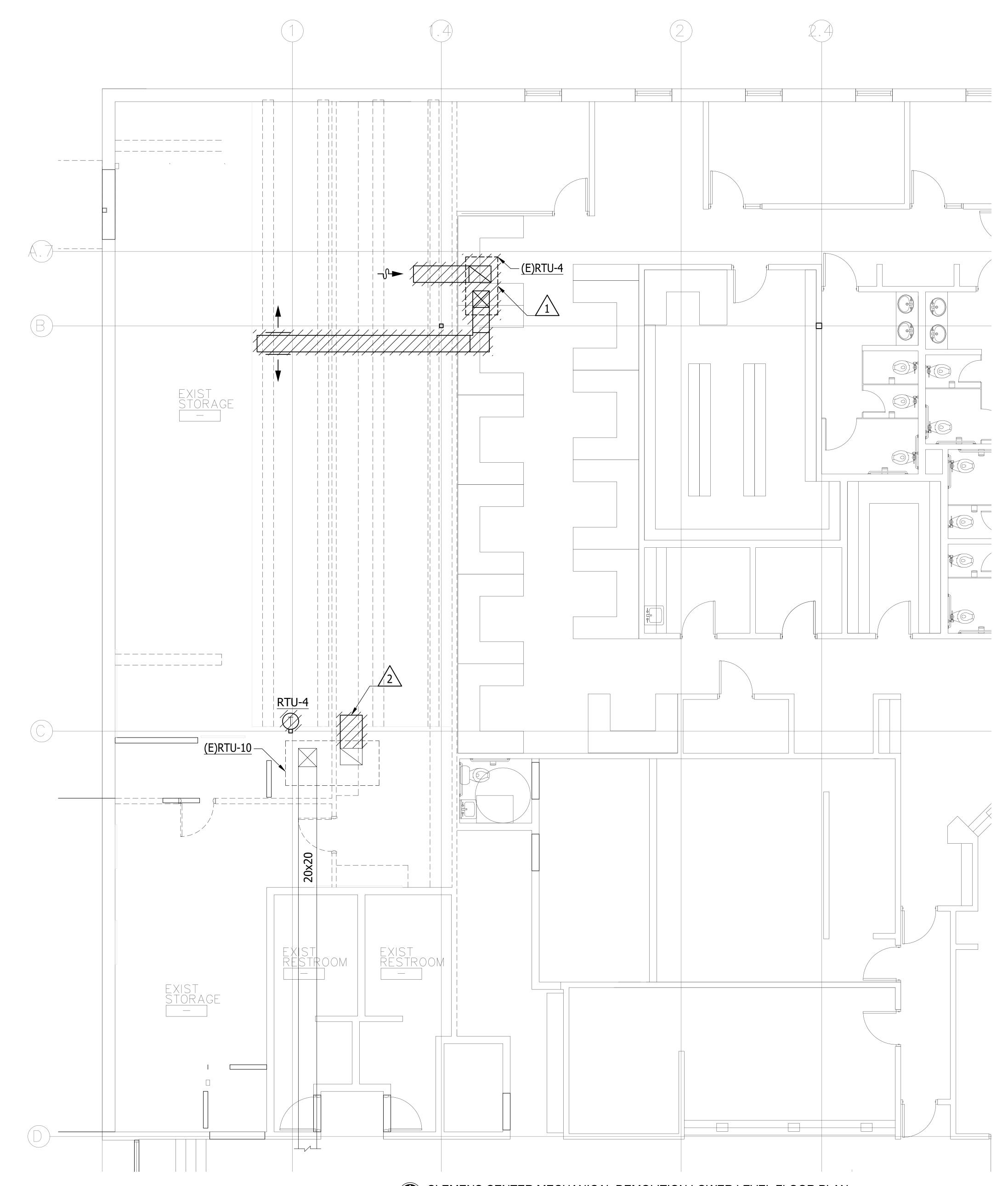
	APPLICABLE CODES AND REGULATIONS							
YEAR	CODE							
2015	MICHIGAN BUILDING CODE							
2015	MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS							
2021	MICHIGAN PLUMBING CODE							
2021	MICHIGAN MECHANICAL CODE							
2015	MICHIGAN UNIFORM ENERGY CODE							
2015	INTERNATIONAL FUEL GAS CODE							
2012	NFPA 101 WITH BFS AMENDMENTS							

\_\_\_\_\_

WAKELY ASSOCIATES, INC. ARCHITECTS 30500 VAN DYKE AVENUE SUITE 209 WARREN, MICHIGAN 48093 PH: 586.573.4100 FX: 586.573.0822 www.WakelyAIA.com UNIFIED BUILDING SYSTEMS ENGINEERING 75 N. MAIN ST., SUITE 221 MT. CLEMENS, MI 48043 UBS PROJECT: 007.24.02
MACOMB COUNTY BOARD OF COMMISSIONERS CLEMENS CENTER COUNTY CLERK STORAGE RENOVATION
MECHANICAL GENERAL INFORMATION
PRELIMINARY   DESIGN DEVELOPMENT  CONSTRUCTION  FINAL RECORD  DRAWN BY MPH CHECKED BY MPH REVISIONS
DATE: JULY 25, 2024 SHEET NO. MO.OO
<sup>ЈОВ NO</sup> 231987

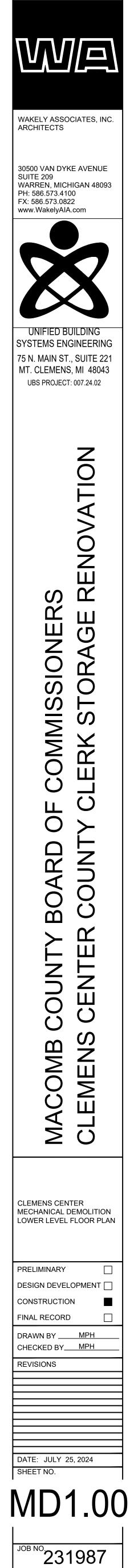
r plan	
AN	
PLAN	

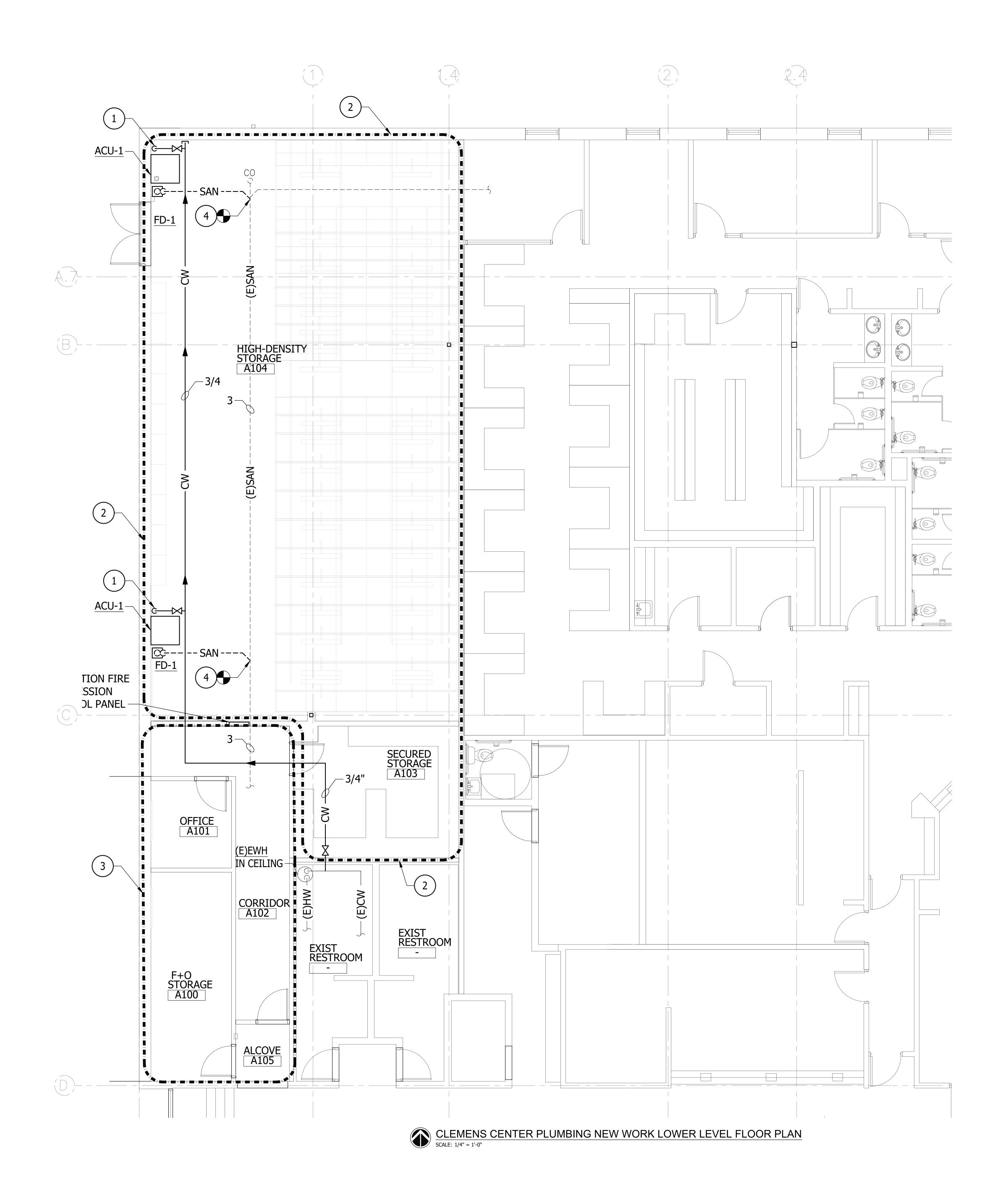




	GENERAL DEMOLITION NOTES
Α	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
В	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
С	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTLITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPENCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.
н	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.
$\widehat{\mathbf{X}}$	DEMOLITION KEYED NOTES
1	REMOVE PACKAGED ROOFTOP UNIT COMPLETE INCLUDING ALL DUCTWORK AND ACCESSORIES. CAP GAS PIPING AT ROOF. INFILL CURB AND CAP EXISTING OPENING. SEAL PENETRATIONS WEATHER TIGHT.
2	REMOVE RETURN AIR OPEN DUCTWORK BACK TO DROP THRU ROOF AND CAP. PREPARE DROP FOR NEW CONNECTION.

	GENERAL DEMOLITION NOTES
А	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
В	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
С	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTLITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPENCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.
н	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.
	DEMOLITION KEYED NOTES
1	REMOVE PACKAGED ROOFTOP UNIT COMPLETE INCLUDING ALL DUCTWORK AND ACCESSORIES. CAP GAS PIPING AT ROOF. INFILL CURB AND CAP EXISTING OPENING. SEAL PENETRATIONS WEATHER TIGHT.
	REMOVE RETURN AIR OPEN DUCTWORK BACK TO DROP THRU ROOF AND CAP.

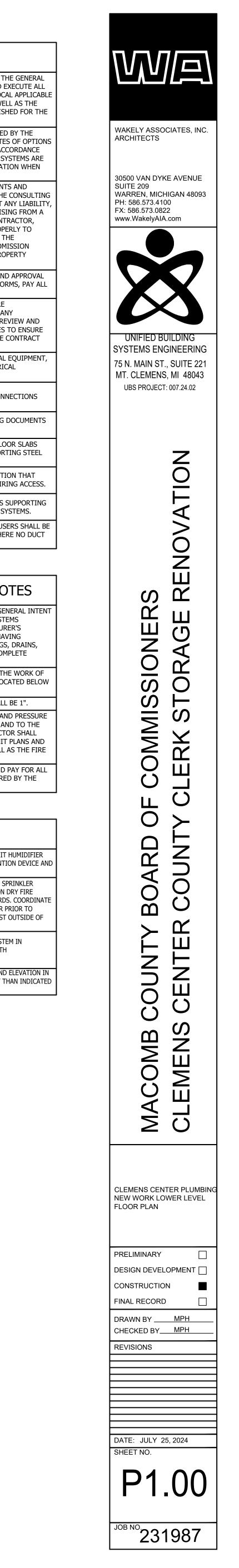


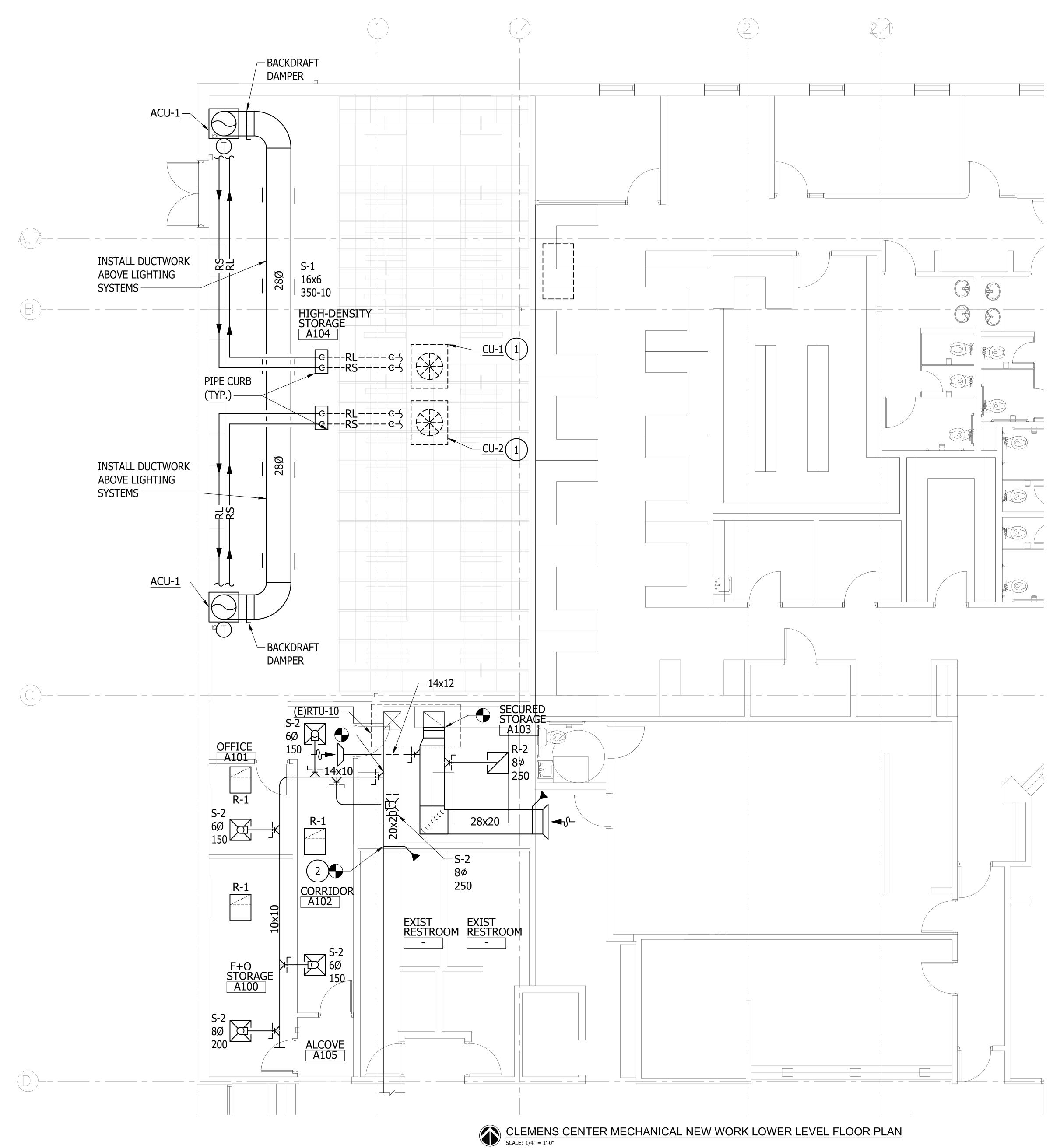


	HVAC GENERAL NOTES
A	THESE DRAWINGS ARE DIAGRAMMAITC AND REPRESENT THE EXTENT OF THE WORK TO BE PERFORMED. PROVIDE AND EX HVAC SYSTEMS PER ENGINEER'S SPECIFICATION, AND LOCAL CODES INCLUDING AMENDMENTS, BULLETINS, ETC. AS WELL STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISHE BUILDINGS, AND REQUIREMENTS OF THE OWNER.
В	EXCEPT FOR CHANGES AS MAY BE SPECIFICALLY APPROVED E ENGINEER OF RECORD. IN ACCORDANCE WITH ALTERNATES AS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACCO WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. SYS TO BE COMPLETE, EFFICIENT, AND SATISFACTORY OPERATION PROJECT IS DELIVERED TO THE OWNER.
С	THE CONTRACTOR AND EACH SUBCONTRACTOR COVENENTS AGREES TO IDEMNIFY, DEFEND, AND HOLD HARMLESS THE C ENGINEER, ARCHITECT, AND OWNER FROM AND AGAINST AN LOSS, DAMAGE, OR EXPENSE INCLUDING ATTORNEYS ARISIN FAILURE OR ALLEGED FAILURE ON THE PART OF THE CONTRA SUBCONTRACTORS, AND THEIR AGENTS/EMPLOYEES PROPER DISCHARGE THE OBLIGATIONS ASSUMED BY HIM/HER IN THE PERFORMANCE OF THE WORK, INCLUDING ANY ACT OR OMIS ALLEGEDLY RESULTING IN DEATH, PERSONAL INJURY, PROPE DAMAGE, OR IMPROPER CONSTRUCTION PROTOCOL.
D	CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND A FROM GOVERNING AUTHORITIES AND FILE NECESSARY FORM INSPECTION FEES.
E	CONTRACTOR TO EXAMINE ALL ADJOINING WORK BEFORE COMMENCEMENT OF HIS/HER SCOPE OF WORK. REPORT ANY DISCREPANCIES TO THE CONSTRUCTION MANAGER FOR REV APPROVAL. COORDINATE ALL WORK WITH OTHER TRADES TO THAT INSTALLATION IS MADE IN ACCORDANCE WITH THE CO DOCUMENTS.
F	PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL E DUCTWORK/PIPING SHALL NOT INTERFERE WITH ELECTRICA EQUIPMENT CLEARANCE.
G	CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. ALL PIPING CONNE SHALL BE MINIMUM 3/4" UNLESS NOTED OTHERWISE.
Н	FURNISH ADEQUATE LIABILITY INSURANCE AND BONDING DO AS REQUIRED BY THE OWNER.
J	SUPPORT ALL ANCHORS SECURED TO THE BOTTOM OF FLOO SHALL BE DROP-IN OR SLEEVE ANCHOR TYPE. ALL SUPPORTI SHALL BE PROVIDED BY THE CONTRACTOR.
К	DUCTWORK/PIPING SHALL NOT BE INSTALLED IN A LOCATIO RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRIN
L	THE CONTRACTOR SHALL PROVIDE ALL MISCELLANNEOUS SU STEEL FOR THE PROPER INSTALLATION OF MECHANICAL SYS
М	BRANCH DUCTWORK TO GRILLES, REGISTERS, AND DIFFUSEF THE SAME SIZE AS THE TERMINAL DEVICE NECK SIZE WHERE SIZE IS INDICATED.

F	IRE PROTECTION GENERAL NOT
A	SE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENE OF THE WORK. PROVIDE/REWORK FIRE PROTECTION SYSTEM COMPLETE, PER APPLICABLE CODES, NFPA, OWNERS INSURE REQUIREMENTS AND REQUIREMENTS OF AUTHORITIES HAVI JURISDICTION INCLUDING ALL PIPING, OFFSETS, FITTINGS, VALVES, SPRINKLER HEADS, ETC. AS REQUIRED FOR A COMP OPERABLE SYSTEM.
В	THECONTRACTOR SHALL COORDINATE HIS WORK WITH THE ALL OTHER TRADES. SPRINKLER PIPING SHALL NOT BE LOCA MECHANICAL EQUIPMENT.
С	MINIMUM RUN-OUT PIPE SIZE TO SPRINKLER HEADS SHALL E
D	FIRE PROTECTION TRADES SHALL SUBMIT PLANS, FLOW AND TEST AND CALCULATIONS TO THE LOCAL FIRE MARSHAL AND BUILDING'S INSURING AGENCY FOR APPROVAL. CONTRACTON THEN MAKE ALL NECESSARY CORRECTIONS AND RESUBMIT F CALCULATIONS FOR RECORD TO THE ARCHITECT AS WELL AS MARSHAL.
E	CONTRACTOR SHALL PROVIDE ALL NECESSARY TESTS AND PA FEES, PERMITS, INSPECTIONS, AND LICENSES, AS REQUIRED LOCAL AUTHORITY.

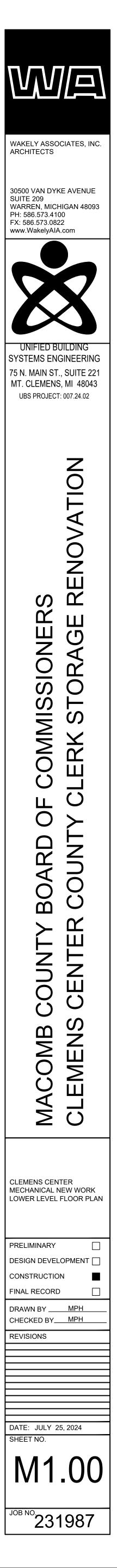
X	NEW WORK KEYED NOTES
1	ROUTE 1/2" CW DOWN ALONG WALL AND CONNECT TO 1/4" UNIT H CONNECTION. TERMINATE WITH ASSE 1022 BACKFLOW PREVENTIO ISOLATION VALVE.
2	IN AREA INDICATED, REMOVE ALL BUILDING SERVED WET-PIPE SPR SYSTEM AND CAP OUTSIDE OF AREA. PROVIDE NEW PRE-ACTION DI PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 13 STANDARDS. PLACEMENT OF RISER/AIR COMPRESSOR IN FIELD WITH OWNER PR INSTALLATION. PROVIDE CONTROL PANEL IN OFFICE SPACE JUST C ROOM.
3	IN AREA INDICATED, RE-WORK EXISTING FIRE PROTECTION SYSTEM ACCORDANCE WITH NFPA 13 REQUIREMENTS. COORDINATE WITH ARCHITECTURAL CEILING LAYOUTS AS NECESSARY.
4	FIELD VERIFY EXISTING SANITARY LOCATION, FLOW DIRECT, AND E FIELD PRIOR TO INSTALLATION. IF CONDITIONS VARY GREATLY THA ON PLANS, REPORT FINDINGS TO ENGINEER.



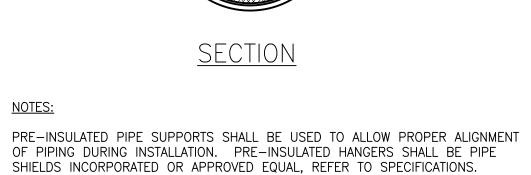


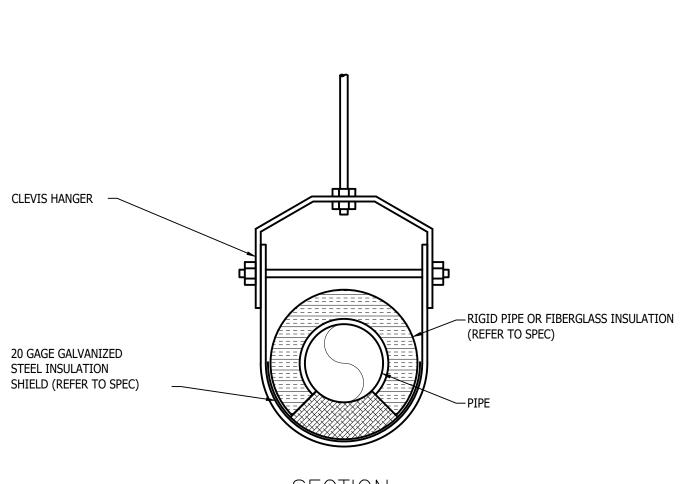
	HVAC GENERAL NOTES
A	THESE DRAWINGS ARE DIAGRAMMAITC AND REPRESENT THE GENERAL EXTENT OF THE WORK TO BE PERFORMED. PROVIDE AND EXECUTE ALL HVAC SYSTEMS PER ENGINEER'S SPECIFICATION, AND LOCAL APPLICABLE CODES INCLUDING AMENDMENTS, BULLETINS, ETC. AS WELL AS THE STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISHED FOR THE BUILDINGS, AND REQUIREMENTS OF THE OWNER.
В	EXCEPT FOR CHANGES AS MAY BE SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD. IN ACCORDANCE WITH ALTERNATES OF OPTIONS AS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. SYSTEMS ARE TO BE COMPLETE, EFFICIENT, AND SATISFACTORY OPERATION WHEN PROJECT IS DELIVERED TO THE OWNER.
с	THE CONTRACTOR AND EACH SUBCONTRACTOR COVENENTS AND AGREES TO IDEMNIFY, DEFEND, AND HOLD HARMLESS THE CONSULTING ENGINEER, ARCHITECT, AND OWNER FROM AND AGAINST ANY LIABILITY, LOSS, DAMAGE, OR EXPENSE INCLUDING ATTORNEYS ARISING FROM A FAILURE OR ALLEGED FAILURE ON THE PART OF THE CONTRACTOR, SUBCONTRACTORS, AND THEIR AGENTS/EMPLOYEES PROPERLY TO DISCHARGE THE OBLIGATIONS ASSUMED BY HIM/HER IN THE PERFORMANCE OF THE WORK, INCLUDING ANY ACT OR OMISSION ALLEGEDLY RESULTING IN DEATH, PERSONAL INJURY, PROPERTY DAMAGE, OR IMPROPER CONSTRUCTION PROTOCOL.
D	CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVAL FROM GOVERNING AUTHORITIES AND FILE NECESSARY FORMS, PAY ALL INSPECTION FEES.
E	CONTRACTOR TO EXAMINE ALL ADJOINING WORK BEFORE COMMENCEMENT OF HIS/HER SCOPE OF WORK. REPORT ANY DISCREPANCIES TO THE CONSTRUCTION MANAGER FOR REVIEW AND APPROVAL. COORDINATE ALL WORK WITH OTHER TRADES TO ENSURE THAT INSTALLATION IS MADE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
F	PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT, DUCTWORK/PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
G	CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. ALL PIPING CONNECTIONS SHALL BE MINIMUM 3/4" UNLESS NOTED OTHERWISE.
Н	FURNISH ADEQUATE LIABILITY INSURANCE AND BONDING DOCUMENTS AS REQUIRED BY THE OWNER.
J	SUPPORT ALL ANCHORS SECURED TO THE BOTTOM OF FLOOR SLABS SHALL BE DROP-IN OR SLEEVE ANCHOR TYPE. ALL SUPPORTING STEEL SHALL BE PROVIDED BY THE CONTRACTOR.
К	DUCTWORK/PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
L	THE CONTRACTOR SHALL PROVIDE ALL MISCELLANNEOUS SUPPORTING STEEL FOR THE PROPER INSTALLATION OF MECHANICAL SYSTEMS.
М	BRANCH DUCTWORK TO GRILLES, REGISTERS, AND DIFFUSERS SHALL BE THE SAME SIZE AS THE TERMINAL DEVICE NECK SIZE WHERE NO DUCT SIZE IS INDICATED.
X	NEW WORK KEYED NOTES
1	INSTALL ROOF MOUNTED CONDENSING UNIT ON EQUIPMENT RAILS. EQUIPMENT SHALL BE INSTALLED MINIMUM 10'-0" FROM ROOF EDGE. ROOF MOUNTED REFRIGERANT PIPING SHALL BE INSTALLED ON PIPE SUPPORTS. ALL PIPING IN SPACE <u>SHALL NOT BE INSTALLED</u> OVER STORAGE CABINETS.

X	NEW WORK KEYED NOTES
1	INSTALL ROOF MOUNTED CONDENSING UNIT ON EQUIPMENT RAILS. EQUIPMENT SHALL BE INSTALLED MINIMUM 10'-0" FROM ROOF EDGE. ROOF MOUNTED REFRIGERANT PIPING SHALL BE INSTALLED ON PIPE SUPPORTS. ALL PIPING IN SPACE <u>SHALL NOT BE INSTALLED</u> OVER STORAGE CABINETS.
2	INSTALL NEW FIRE DAMPER IN EXISTING DUCT AT NEW FIRE WALL PENETRATION. REMOVE SECTIONS OF DUCT AS REQUIRED FOR INSTALLATION. FIELD VERIFY EXACT SIZE AND WALL THICKNESS IN FIELD PRIOR TO INSTALLATION.

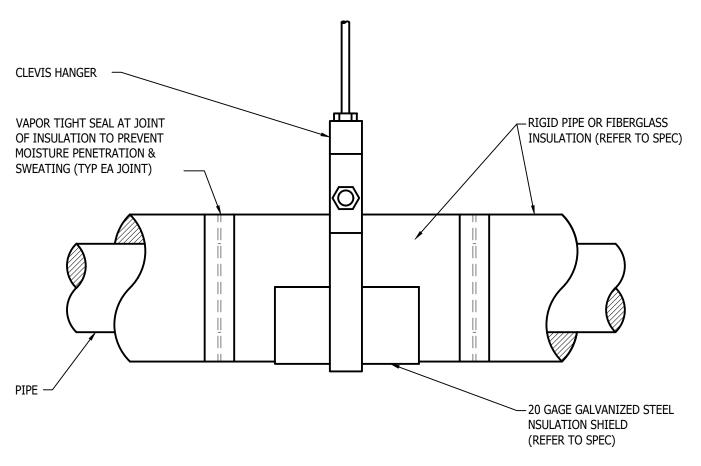


### INSULATED PIPE HANGER DETAIL NO SCALE



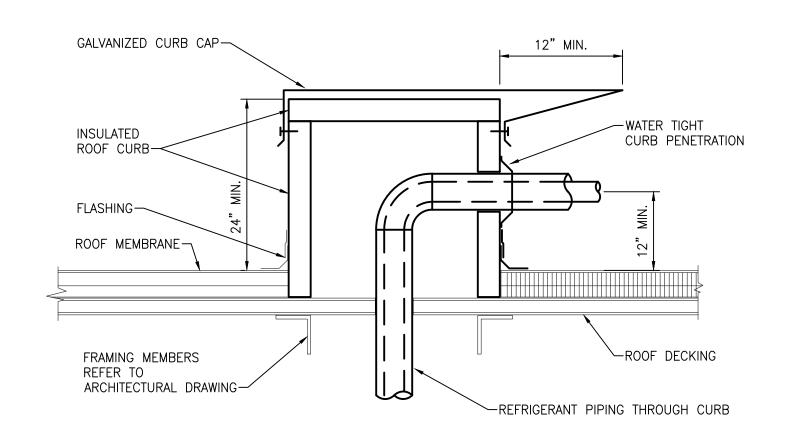






### TYPICAL MECHANICAL PIPE CURB NO SCALE

<u>NOTE:</u> MECHANICAL AND ARCHITECTURAL TRADES SHALL COORDINATE ALL REQUIREMENTS TO ASSURE PROPER WATERTIGHT INSTALLATION.



	AIR CONDITIONING UNIT SCHEDULE - (COMPUTER ROOM)																													
	UNIT ID CEDVICE NOMINAL NOMINAL TOTAL SENSIBLE AIR			COMP	COMPRESSOR		ELECTRIC HEATING		HUMIDIFIER		FILTER UNIT DI		UNIT DIMENSIONS		ELECTRICAL			DISCONNECT												
UNIT ID	SERVICE	NOMINAL TONS	AIRFLOW (CFM)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EDB (°F)	A. RH (%)	LDB (°F)	LWB (°F)	NO.	TYPE		CAPACITY (KW)	ТҮРЕ	CAPACITY (LBS/HR)	EFFICIENCY (ASHRAE %)	DEPTH (IN)	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	WEIGHT (LBS)	МОСР	MCA	VOLTS	PHASE	FURN.	INST.	TYPE	MANUFACTURER/ MODEL NO.	REMARKS
ACU-1	HIGH DENSITY STORAGE	6.5	3500	77.7	72.2	75	50	55	55	1	SCROLL	40.9	12	INFRARED	7.7	MERV 8	2	34	34	77	670	100.0	82.5	230	3	MC	МС	SWITCH	LIEBERT / PDX	
ACU-2	HIGH DENSITY STORAGE	6.5	3500	77.7	72.2	75	50	55	55	1	SCROLL	40.9	12	INFRARED	7.7	MERV 8	2	34	34	77	670	100.0	82.5	230	3	MC	МС	SWITCH	LIEBERT / PDX	

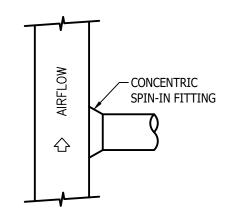
1. REMOTE LOCKOUT OF ELECTRIC HUMIDIFIER AND ELECTRIC REHEAT SHALL BE INCLUDED ON ALL UNITS. UNIT SHALL BE PROVIDED WITH THE FOLLOWING OPTIONS: INFRA-RED HUMIDIFIER, CONDENSATE PUMP, ELECTRIC REHEAT, FIRE STAT, SMOKE DETECTOR, 4 STEP UNLOADER, PREMIUM EFFICIENCY MOTOR, FULL PERIMETER DUCT COLLAR PLENUM.

SIZE THE LEADING END OF THE ELBOW IN THE

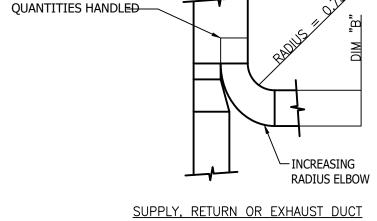
OF THE RELATIVE AIR

SAME RATIO TO THE MAIN

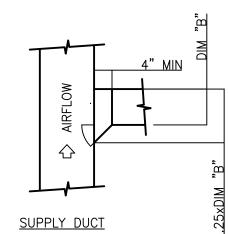
DUCT SIZE AS THE RATIO

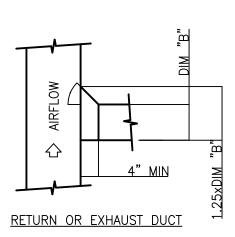


RECTANGULAR TO ROUND DUCT

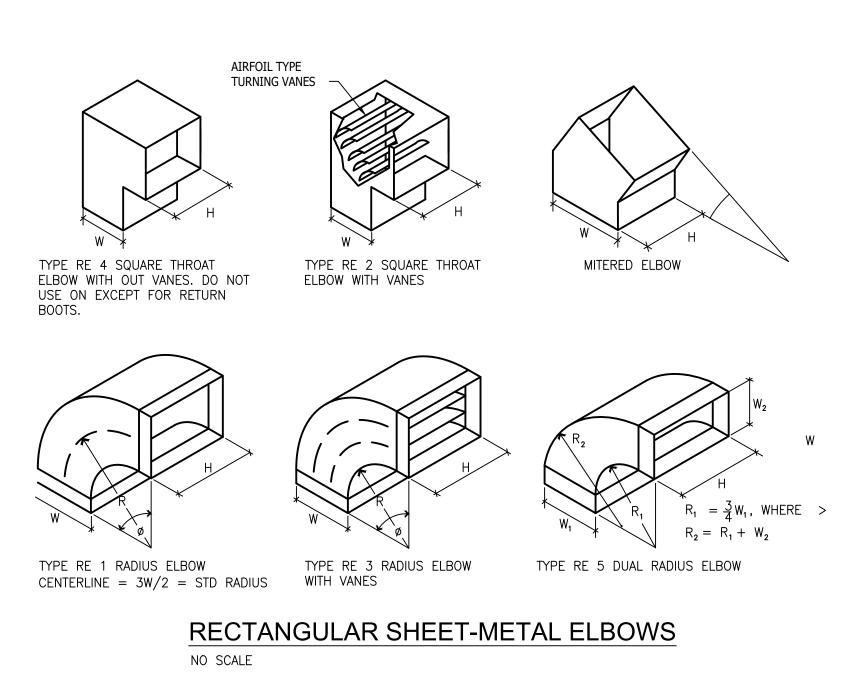


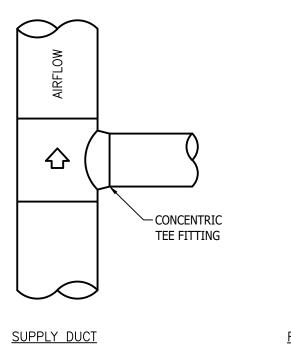
FOR USE WHEN A BRANCH TAKE-OFF IS TO HANDLE MORE THAN 25% OF THE AIR HANDLED BY THE MAIN DUCT

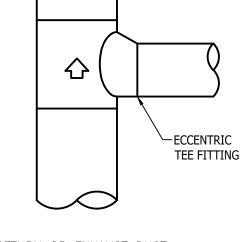




RECTANGULAR DUCT BRANCH TAKE-OFF DETAILS NO SCALE







FLAT OVAL DUCT BRANCH TAKE—OFF SIMILAR

RETURN OR EXHAUST DUCT

 $\frown$ 

ROUND DUCT BRANCH TAKE-OFF DETAILS NO SCALE

	UNIT NOMINAL MINIMUM DESIGN				NO. OF		ELEC	TRICAL		ſ	DISCONNE	ECT	MANUFACTURER/		
UNIT ID	SERVED	TONNAGE	SEER	AMBIENT (°F)	FANS	MOCP	MCA	VOLTS	PHASE	FURN. BY	INST. BY	TYPE	MODEL NO.	REMARKS	
CU-1	ACU-1	6.5	13.0	95	1	15	2.9	230	3	EC	EC	SWITCH	LIEBERT / MCM040		
CU-2	ACU-2	6.5	13.0	95	1	15	2.9	230	3	EC	EC	SWITCH	LIEBERT / MCM040		

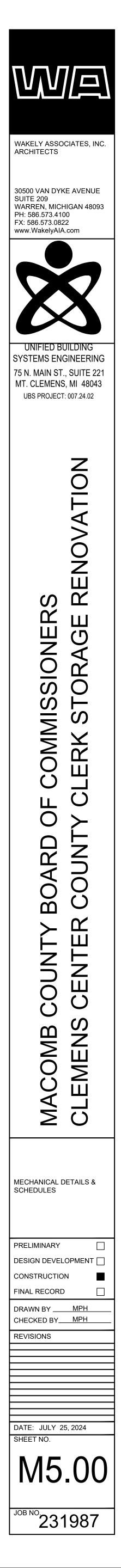
NOTES: 1. INSTALL ON EQUIPMENT RAILS.

	PLUMBING FIXTURE SCHEDULE														
Т	TAG BARRIER ITEM				PIPE CONNE	CTION SIZES	S HW	MANUFACTURER & ACCESSORIES MODEL NO.							
F	D-1	-	FLOOR DRAIN W/ TRAP PRIMER	3"	-	-	-	ZURN: Z415-BZ1							

GRILLE, REGISTER AND DIFFUSER SCHEDULE	

UNIT ID	FACE SIZE	NECK SIZE	MOUNTING	FINISH	MATERIAL	PRICE/ MODEL NO.	REMARKS
S-1	NECK+2"	SEE PLANS	SPIRAL DUCT	WHITE	STEEL	SDGE	
S-2	24x24	SEE PLANS	CEILING	WHITE	STEEL	SPD	
R-1	24x12	CANOPY	CEILING	WHITE	STEEL	PDDR	
R-2	24x24	SEE PLANS	CEILING	WHITE	STEEL	PDDR	

NOTES: 1. REFER TO ARCHITECTURAL CEILING PLAN AND COORDINATE FRAME TYPE ACCORDINGLY.



_

	LUMINAIRE SCHEDULE					
FIXTURE SYMBOL	FIXTURE TAG	DESCRIPTION	MANUFACTURER(S)	LAMP SOURCE	WATTS	
	A	2'x4' LOW PROFILE TROFFER EDGE LIT FLAT PANEL LED LUMINAIRE. A FULLY LUMINOUS APPEARANCE GLARE FREE. SUITABLE FOR RECESS MOUNTING IN LAY—IN TYPE GRID CEILING, ALUMINUM FRAME WITH SATIN WHITE LENS, 4800 LUMENS, ELECTRONIC DRIVER, 4000K. 0–10V DIMMING CAPABLE, UNIVERSAL VOLTAGE.	1. LITHONIA EPANL LED FLAT PANEL 2. COOPER LIGHTING 3. COLUMBIA LIGHTING	LP840 80CRI 4800 LUMENS	38.9	
	B	8'L X 3.4"W X 2.7" D LED LINEAR STRIP FIXTURE. ROLLED STEEL HOUSING, END CAPS, WHITE FINISH, FLAT DIFFUSED LENS, LED ELECTRONIC DRIVER 0–10V DIMMING DOWN TO 10%. 4000 LUMENS, 4000K, 80 CRI. CABLE, 120V OPERATION.	<ol> <li>LITHONIA CLX L48 4000L SEF FDL MVOLT GZ10 40K 80CRI HC36 LUGR</li> <li>EATON LIGHTING</li> <li>COLUMBIA LIGHTING</li> </ol>	LED 4000K 4500LM 80CRI	63.7W	
	(#E)	SAME AS TYPE # EXCEPT THIS FIXTURE WILL BE PROVIDED WITH AN INTERNAL BATTERY PACK. WIRE SUCH IT OPERATES NORMALLY WITH A SWITCH AND AS AN EMERGENCY LIGHT UPON LOSS OF POWER.				
∱⊛	$\ge$	EXIT LIGHT EMERGENCY LIGHT SHALL BE UNIVERSAL MOUNT, DIECAST ALUMINUM, HIGH OUTPUT LED DIFFUSE LIGHT PANEL, RED LETTERS WITH MAINTENANCE FREE NICKEL CADIUM BATTERY CAPABLE OF PROVIDING 90 MINUTE FULL LIGHT OPERATION.	1. LITEALARMS GRANDE SERIES CAT# 1 XDPC N W RW	120–277V	2.3	
ک	X1)	EMERGENCY LIGHT REMOTE HEAD TO BE CONNECTED TO EXIT SIGN WITH HIGH OUTPUT BATTERY	1. LITEALARMS CAT # SAF2 LD1 B 6	120-277V	2.3	

# LIGHTING SYMBOL LIST

SYMBOL	DESCRIPTION
	LIGHT FIXTURE – CEILING/GRID MOUNT
$\vdash^{\top} \dashv$	LIGHT FIXTURE – INTERIOR WALL MOUNT LINEAR
$\hat{\bigcirc}$	LIGHT FIXTURE – DOWNLIGHT WITH WALLWASH DIST.
$\bigcirc$	LIGHT FIXTURE - INTERIOR WALL SCONCE
-ф-	LIGHT FIXTURE – INTERIOR SURFACE MOUNT
Ю	LIGHT FIXTURE - INTERIOR WALL MOUNTED
$\oplus$	LIGHT FIXTURE – INTERIOR PENDANT MOUNT
۲	LIGHT FIXTURE – INTERIOR PENDANT MOUNT CYLINDER
�—	TRACK AND TRACK MOUNTED LIGHT FIXTURES
⊗	EXIT LIGHT – CEILING MOUNTED – ARROWS AS INDICATED ON PLAN (SHADED AREA INDICATES FACE(S) OF FIXTURE)
Ð	EXIT LIGHT – WALL MOUNTED – ARROWS AS INDICATED ON PLAN (SHADED AREA INDICATES FACE(S) OF FIXTURE)
	EMERGENCY LIGHT FIXTURE - EMERGENCY BATTERY UNIT
400	EMERGENCY LIGHT FIXTURE – BATTERY UNIT/EXIT SIGN
⊶	LIGHT FIXTURE - EXTERIOR POLE MOUNT TYPE
P	LIGHT FIXTURE - EXTERIOR WALL MOUNT TYPE
X	LIGHT FIXTURE - EXTERIOR POST TOP TYPE
۲	LIGHT FIXTURE – EXTERIOR BOLLARD TYPE
NOTES	

<u>NOTES:</u> 1. LIGHTING SYMBOLS AS INDICATED ON PLANS ARE NOT DRAWN TO SCALE UNLESS NOTED OTHERWISE.

### LIGHTING CONTROLS LEGEND

SYMBOL	DESCRIPTION
\$	SWITCH SINGLE POLE
\$ <sub>0</sub>	OCCUPANCY SENSOR SWITCH
\$ <sub>v</sub>	VACANCY SENSOR SWITCH
\$ <sub>D</sub>	LOW VOLTAGE DIMMER SWITCH
\$ <sub>vD</sub>	VACANCY DIMMER SENSOR SWITCH
<u>os</u>	CEILING MOUNTED OCCUPANCY SENSOR
(vs)	CEILING MOUNTED VACANCY SENSOR
\$3	SWITCH THREE-WAY
\$ <sub>ĸ</sub>	SINGLE POLE KEY SWITCH

# POWER SYMBOL LIST

SYMBOL	DESCRIPTION	ABBREV.
٠	CONDUIT DOWN	AFF
0	CONDUIT UP	А
С	CONTACTOR	AF
	DISCONNECT SWITCH - NON FUSED	AWG
4	DISCONNECT SWITCH - FUSED	AT
4	DISCONNECT SWITCH - COMB. MOTOR STARTER	ATS
	ELECTRICAL PANEL – 208/240 VOLTS	AIC
	ELECTRICAL PANEL – 480 VOLTS	C
) T	GROUNDING ROD GROUND	CB CU
- 	GROUNDING BAR	СТ
J	JUNCTION BOX	DIA
	JUNCTION BOX WITH HARDWIRED CONNECTION	DISC
M	METER	EMT
$\sim$	MOTOR – SINGLE PHASE	EWC
O	MOTOR – THREE PHASE	EPO
\$м	MOTOR RATED SWITCH	(E)
φ	POWER RECEPTACLE – SIMPLEX TYPE	FA
P	POWER RECEPTACLE – DUPLEX TYPE	FACP
<b>+</b>	POWER RECEPTACLE – DUPLEX 6" ABOVE COUNTER	FLA
₽usb -	POWER RECEPTACLE - USB/DUPLEX COMBO. DEVICE	F
- <b>⊕</b> - ਯ	POWER RECEPTACLE – QUADRUPLEX TYPE	G/GRD GFCI/GFI
$\square$	POWER RECEPTACLE – RECESSED FLOOR TYPE POWER RECEPTACLE – SPECIALTY TYPE	HOA
SPD	SURGE PROTECTION DEVICE	HP
TC	TIME CLOCK	IG
Т	TRANSFORMER (REFER TO SCHEDULES FOR INFO)	KV
VSD	VARIABLE SPEED DRIVE	KVA
IOTES:		KW
	RATINGS/SIZES SHALL BE COORDINATED WITH PLANS DULES.	KWH
		LP
		MCB
AUXIL	LIARY SYST. SYMBOL LIST	MDP
SYMBOL	DESCRIPTION	MLO MAX
$\Box \forall$	CAMERA	MIN
CR	CARD READER	NEC
	COMMUNICATIONS DEVICE – 6" ABOVE COUNTER	NEMA
	COMMUNICATIONS DEVICE - FLOOR	N/NEU
	COMMUNICATIONS DEVICE - WALL	NF
DH	MAGNETIC DOOR HOLDER PUSH BUTTON	NC
S	SPEAKER	NO
μ	WALL CLOCK – SINGLE FACE	NIC
ΗĤ	WALL CLOCK – DOUBLE FACE	
$\square$	WALL CLOCK AND SPEAKER UNIT	OF/OI PH. OR Ø
IOTES:		P
. ELECTRICAL CONDUIT FO	CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND DR ALL DEVICES INDICATED.	PF
	GE CONTRACTOR SHALL PROVIDE EXACT ONS AND LOCATIONS OF ALL DEVICES.	PVC
		(R)
FIR	RE ALARM SYMBOL LIST	(RR)
SYMBOL	DESCRIPTION	RMC
Ś	DETECTION DEVICE	RP
	DETECTION DEVICE - DUCT MOUNTED	SPEC/SPECS
(FS)	DETECTION DEVICE - FLOW SWITCH	TBB
TS	DETECTION DEVICE - TAMPER SWITCH	TYP.
FAA	FIRE ALARM ANNUNCIATOR PANEL	UC UL
FACP	FIRE ALARM CONTROL PANEL	UPS
√FD	FIRE DEPARTMENT COMMUNICATION OUTLET	USB
F	MANUAL DEVICE - PULL STATION	V
Ē	NOTIFICATION DEVICE - WALL MOUNTED	VA
Ę	NOTIFICATION DEVICE - CEILING MOUNTED	W
<u>IOTES:</u> . DRAWINGS I	NDICATE DESIGN INTENT ONLY, FINAL LOCATIONS AND	WG

	DESCRIPTION	AB
•	CONDUIT DOWN	
0	CONDUIT UP	
С	CONTACTOR	
4	DISCONNECT SWITCH - NON FUSED	/
L	DISCONNECT SWITCH - FUSED	
4	DISCONNECT SWITCH – COMB. MOTOR STARTER	
	ELECTRICAL PANEL – 208/240 VOLTS	
	ELECTRICAL PANEL – 480 VOLTS	
ullet	GROUNDING ROD	
Ē	GROUND	
<del></del>	GROUNDING BAR	
J	JUNCTION BOX	
	JUNCTION BOX WITH HARDWIRED CONNECTION	[
M	METER	l
$\overline{\bigcirc}$	MOTOR – SINGLE PHASE	E
$\mathbf{V}$	MOTOR – THREE PHASE	ł
\$м	MOTOR RATED SWITCH	
φ	POWER RECEPTACLE – SIMPLEX TYPE	
φ	POWER RECEPTACLE – DUPLEX TYPE	F
$\oplus$	POWER RECEPTACLE – DUPLEX 6" ABOVE COUNTER	
П Пизв	POWER RECEPTACLE – USB/DUPLEX COMBO. DEVICE	
++ ++	, POWER RECEPTACLE – QUADRUPLEX TYPE	G,
Ð	POWER RECEPTACLE – RECESSED FLOOR TYPE	GF
$\odot$	POWER RECEPTACLE – SPECIALTY TYPE	ł
SPD	SURGE PROTECTION DEVICE	
ТС	TIME CLOCK	
Т	TRANSFORMER (REFER TO SCHEDULES FOR INFO)	
	VARIABLE SPEED DRIVE	
AUXI	LIARY SYST. SYMBOL LIST	r N
		N
<b>AUXII</b> SYMBOL	LIARY SYST. SYMBOL LIST DESCRIPTION	, , ,
		r N I
SYMBOL	DESCRIPTION	, , , , ,
SYMBOL	DESCRIPTION	r N N N
SYMBOL	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR	r N N N
SYMBOL	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER	
SYMBOL CR T T T DH	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER	
SYMBOL ⊂ CR ▼ DH ■	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON	
SYMBOL CR T T T DH	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER	
SYMBOL ⊂ CR ▼ DH ■	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK – SINGLE FACE	
SYMBOL ⊂ CR ↓ CR ↓ DH © L CR ↓ CR ↓ CR ↓ CR ↓ CR ↓ CR ↓ CR ↓ CR ↓ CR ↓ CR ↓ CR ↓ CR ↓ CR ↓ CR ↓ CR ↓ CR	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK – SINGLE FACE	N,
SYMBOL ⊂ CR ▼ DH ■	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK – SINGLE FACE	N, O
SYMBOL CR ↓ CR ↓ DH © S ↓ DH © S ↓ DH S S LOTES:	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK – SINGLE FACE WALL CLOCK – DOUBLE FACE	N, 0 0
SYMBOL CR CR ▼ DH © S H CS H CS H CS S CS CS CS CS CS CS CS CS	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK – SINGLE FACE WALL CLOCK – DOUBLE FACE WALL CLOCK AND SPEAKER UNIT	N, 0 0
SYMBOL CR CR ▼ DH © S H CS H S H S H S H CR S S S S S S S S S S S S S	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK – SINGLE FACE WALL CLOCK – DOUBLE FACE WALL CLOCK AND SPEAKER UNIT	N, 0 0
SYMBOL CR CR V DH S S H S H S S S H S S S H S S S S S S S S S S S S S	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK – SINGLE FACE WALL CLOCK – DOUBLE FACE WALL CLOCK AND SPEAKER UNIT	N, 0 0
SYMBOL CR CR V DH S S H S H S S S H S S S H S S S S S S S S S S S S S	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK – SINGLE FACE WALL CLOCK – DOUBLE FACE WALL CLOCK AND SPEAKER UNIT	N, 0 0
SYMBOL CR CR V DH S S H S H S S S H S S S H S S S S S S S S S S S S S	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK – SINGLE FACE WALL CLOCK – DOUBLE FACE WALL CLOCK AND SPEAKER UNIT	N, 0 0
SYMBOL CR CR V DH S S CR V S CR S CR S CR S CR S CR S CR S CR S CR S CR S CR S CR S CR S CR S CR S CR S CR S CR CR CR CR CR CR CR CR CR CR	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE - 6" ABOVE COUNTER COMMUNICATIONS DEVICE - FLOOR COMMUNICATIONS DEVICE - FLOOR COMMUNICATIONS DEVICE - WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK - SINGLE FACE WALL CLOCK - SINGLE FACE WALL CLOCK AND SPEAKER UNIT	N, 0 0
SYMBOL CR CR CR CR CR CR CR CR CR SS CR CR CR CR CR CR CR CR CR CR	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE - 6" ABOVE COUNTER COMMUNICATIONS DEVICE - 100R COMMUNICATIONS DEVICE - WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK - SINGLE FACE WALL CLOCK - SINGLE FACE WALL CLOCK - DOUBLE FACE WALL CLOCK AND SPEAKER UNIT CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND CONTRACTOR SHALL PROVIDE EXACT IONS AND LOCATIONS OF ALL DEVICES.	N, 0 0
SYMBOL CR CR CR CR CR CR CR CR CR CR	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE - 6" ABOVE COUNTER COMMUNICATIONS DEVICE - FLOOR COMMUNICATIONS DEVICE - FLOOR COMMUNICATIONS DEVICE - WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK - SINGLE FACE WALL CLOCK - SINGLE FACE WALL CLOCK - DOUBLE FACE WALL CLOCK AND SPEAKER UNIT	N, 0 PH. ( F
SYMBOL CR CR CR CR CR CR CR CR CONDUIT SI CR CR CR CR CR CR CR CR CR CR	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE - 6" ABOVE COUNTER COMMUNICATIONS DEVICE - FLOOR COMMUNICATIONS DEVICE - FLOOR COMMUNICATIONS DEVICE - WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK - SINGLE FACE WALL CLOCK - DOUBLE FACE WALL CLOCK AND SPEAKER UNIT CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES INDICATED. GE CONTRACTOR SHALL PROVIDE EXACT IONS AND LOCATIONS OF ALL DEVICES. CONTRACTOR SHALL PROVIDE EXACT IONS AND LOCATIONS OF ALL DEVICES.	N, 0 PH. ( F
SYMBOL CR CR CR CR CR CR CR CR CR CR	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE - 6" ABOVE COUNTER COMMUNICATIONS DEVICE - FLOOR COMMUNICATIONS DEVICE - FLOOR COMMUNICATIONS DEVICE - WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK - SINGLE FACE WALL CLOCK - DOUBLE FACE WALL CLOCK AND SPEAKER UNIT CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES INDICATED. GE CONTRACTOR SHALL PROVIDE EXACT IONS AND LOCATIONS OF ALL DEVICES. CONTRACTOR SHALL PROVIDE EXACT IONS AND LOCATIONS OF ALL DEVICES.	N, 0 PH. ( F
SYMBOL CR CR CR CR CR CR CR CR CR CR	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK – SINGLE FACE WALL CLOCK – DOUBLE FACE WALL CLOCK – DOUBLE FACE WALL CLOCK AND SPEAKER UNIT CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES INDICATED. GE CONTRACTOR SHALL PROVIDE EXACT IONS AND LOCATIONS OF ALL DEVICES. CONTRACTOR SHALL PROVIDE EXACT IONS AND LOCATIONS OF ALL DEVICES.	N, 0 PH. ( F
SYMBOL CR CR CR CR CR CR CR CR CR CR	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE - 6" ABOVE COUNTER COMMUNICATIONS DEVICE - FLOOR COMMUNICATIONS DEVICE - WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK - SINGLE FACE WALL CLOCK - DOUBLE FACE WALL CLOCK AND SPEAKER UNIT CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES INDICATED. GE CONTRACTOR SHALL PROVIDE EXACT IONS AND LOCATIONS OF ALL DEVICES. CONTRACTOR SHALL PROVIDE EXACT IONS AND LOCATIONS OF ALL DEVICES. CETECTION DEVICE DETECTION DEVICE - DUCT MOUNTED DETECTION DEVICE - FLOW SWITCH IFTE ALARM ANNUNCIATOR PANEL FIRE ALARM CONTROL PANEL	N, 0 PH. ( F
SYMBOL CR CR V DH DH CS H CONDUIT ELECTRICAL CONDUIT F SYMBOL SPECIFICAT FIF SYMBOL SFS TS FAA FACP ↓FD	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE - 6" ABOVE COUNTER COMMUNICATIONS DEVICE - VALU COMMUNICATIONS DEVICE - VALU MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK - SINGLE FACE WALL CLOCK - DOUBLE FACE WALL CLOCK AND SPEAKER UNIT CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES INDICATED. GE CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES INDICATED. BESCRIPTION EDETECTION DEVICE - DUCT MOUNTED DETECTION DEVICE - DUCT MOUNTED DETECTION DEVICE - FLOW SWITCH DETECTION DEVICE - TAMPER SWITCH FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM CONTROL PANEL FIRE ALARM CONTROL PANEL FIRE ALARM CONTROL PANEL	N, 0 PH. ( F
SYMBOL CR CR V DH DH C S CR V CR V CR V CR V CR V S CR V CR V CR V CR V S CR V CR V CR V CR V CR V CR V CR V CR V CR V CR CR CR CR CR CR CR CR CR CR	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE - 6" ABOVE COUNTER COMMUNICATIONS DEVICE - FLOOR COMMUNICATIONS DEVICE - WALL MAGNETIC DOOR HOLDER PUSH BUITON SPEAKER WALL CLOCK - SINGLE FACE WALL CLOCK - SINGLE FACE WALL CLOCK AND SPEAKER UNIT CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICE SINDICATED. GE CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES SINDICATED. SPEAKER EDETECTION SPEAKER UNIT CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES SINDICATED. GE CONTRACTOR SHALL PROVIDE EXACT IONS AND LOCATIONS OF ALL DEVICES. EDECRIPTION DETECTION DEVICE DETECTION DEVICE - DUCT MOUNTED DETECTION DEVICE - FLOW SWITCH DETECTION DEVICE - FLOW SWITCH FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM CONTROL PANEL FIRE ALARM CONTROL PANEL FIRE ALARM CONTROL PANEL	N, 0 PH. ( F
SYMBOL CR CR V DH CR V DH CS F CONDUIT CONDUIT F CONDUIT CONDUIT F CONDUIT CON	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE - 6" ABOVE COUNTER COMMUNICATIONS DEVICE - FLOOR COMMUNICATIONS DEVICE - WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK - SINGLE FACE WALL CLOCK - SINGLE FACE WALL CLOCK - DOUBLE FACE WALL CLOCK AND SPEAKER UNIT CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES INDICATED. CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES INDICATED. CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES INDICATED. DESCRIPTION EDECTION DEVICE - DUCT MOUNTED DETECTION DEVICE - DUCT MOUNTED DETECTION DEVICE - DUCT MOUNTED DETECTION DEVICE - TAMPER SWITCH IDETECTION DEVICE - TAMPER SWITCH IRE ALARM ANNUNCIATOR PANEL FIRE ALARM CONTROL PANEL FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM CONTROL PANEL FIRE ALARM CONTROL PANEL FIRE ALARM CONTROL PANEL FIRE ALARM CONTROL PANEL	N, 0 PH. ( F
SYMBOL CR CR V DH DH C S CR V CR V CR V CR V CR V S CR V CR V CR V CR V S CR V CR V CR V CR V CR V CR V CR V CR V CR V CR CR CR CR CR CR CR CR CR CR	DESCRIPTION CAMERA CARD READER COMMUNICATIONS DEVICE - 6" ABOVE COUNTER COMMUNICATIONS DEVICE - FLOOR COMMUNICATIONS DEVICE - WALL MAGNETIC DOOR HOLDER PUSH BUITON SPEAKER WALL CLOCK - SINGLE FACE WALL CLOCK - SINGLE FACE WALL CLOCK AND SPEAKER UNIT CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICE SINDICATED. GE CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES SINDICATED. SPEAKER EDETECTION SPEAKER UNIT CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES SINDICATED. GE CONTRACTOR SHALL PROVIDE EXACT IONS AND LOCATIONS OF ALL DEVICES. EDECRIPTION DETECTION DEVICE DETECTION DEVICE - DUCT MOUNTED DETECTION DEVICE - FLOW SWITCH DETECTION DEVICE - FLOW SWITCH FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM CONTROL PANEL FIRE ALARM CONTROL PANEL FIRE ALARM CONTROL PANEL	N, 0 PH. ( F

•		AB
	CONDUIT DOWN	
0	CONDUIT UP	
С	CONTACTOR	
4	DISCONNECT SWITCH - NON FUSED	,
4	DISCONNECT SWITCH - FUSED	
4	DISCONNECT SWITCH – COMB. MOTOR STARTER	
	ELECTRICAL PANEL – 208/240 VOLTS	
	ELECTRICAL PANEL – 480 VOLTS	
$\bullet$	GROUNDING ROD	
Ē	GROUND	
<del></del>	GROUNDING BAR	
J	JUNCTION BOX	
	JUNCTION BOX WITH HARDWIRED CONNECTION	[
Μ	METER	ł
$\mathcal{N}$	MOTOR – SINGLE PHASE	E
$\mathbf{VO}$	MOTOR – THREE PHASE	ſ
\$м	MOTOR RATED SWITCH	
φ	POWER RECEPTACLE - SIMPLEX TYPE	
φ	POWER RECEPTACLE – DUPLEX TYPE	F
$\oplus$	POWER RECEPTACLE – DUPLEX 6" ABOVE COUNTER	
Pusb	POWER RECEPTACLE – USB/DUPLEX COMBO. DEVICE	
<b>+</b>	POWER RECEPTACLE – QUADRUPLEX TYPE	G,
$\Phi$	POWER RECEPTACLE – RECESSED FLOOR TYPE	GF
$\odot$	POWER RECEPTACLE – SPECIALTY TYPE	ł
SPD	SURGE PROTECTION DEVICE	
TC	TIME CLOCK	
Т	TRANSFORMER (REFER TO SCHEDULES FOR INFO)	
VSD	VARIABLE SPEED DRIVE	l
AUXI	LIARY SYST. SYMBOL LIST	N
SYMBOL	DESCRIPTION	'
$\Box \forall$	CAMERA	
	CAWIEINA	·
CR	CARD READER	
CR -		, I N
	CARD READER	I N
	CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER	
	CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR	
<ul> <li>▼</li> <li>▼</li> <li>DH</li> <li>■</li> </ul>	CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL	
▼ ▼ DH	CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER	
<ul> <li>▼</li> <li>▼</li> <li>DH</li> <li>■</li> </ul>	CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK – SINGLE FACE	
	CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK – SINGLE FACE WALL CLOCK – DOUBLE FACE	N,
<ul> <li>▼</li> <li>▼</li> <li>DH</li> <li>■</li> </ul>	CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK – SINGLE FACE	N, O
	CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK – SINGLE FACE WALL CLOCK – DOUBLE FACE	N, 0 0
	CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK – SINGLE FACE WALL CLOCK – DOUBLE FACE WALL CLOCK AND SPEAKER UNIT	N, 0 0
	CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK – SINGLE FACE WALL CLOCK – DOUBLE FACE WALL CLOCK AND SPEAKER UNIT	N, 0 0
► ► ► ► ► ► ► ► ► ► ► ► ► ►	CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK – SINGLE FACE WALL CLOCK – DOUBLE FACE WALL CLOCK AND SPEAKER UNIT	N, 0 0
► ► ► ► ► ► ► ► ► ► ► ► ► ►	CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK – SINGLE FACE WALL CLOCK – DOUBLE FACE WALL CLOCK AND SPEAKER UNIT	N, 0 0
► ► ► ► ► ► ► ► ► ► ► ► ► ►	CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK – SINGLE FACE WALL CLOCK – DOUBLE FACE WALL CLOCK AND SPEAKER UNIT	N, 0 0
► ► ► ► ► ► ► ► ► ► ► ► ► ►	CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK – SINGLE FACE WALL CLOCK – SINGLE FACE WALL CLOCK AND SPEAKER UNIT	N, 0 PH. ( F
► ► ► ► ► ► ► ► ► ► ► ► ► ►	CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK – SINGLE FACE WALL CLOCK – SINGLE FACE WALL CLOCK AND SPEAKER UNIT	N, 0 0
► ► ► ► ► ► ► ► ► ► ► ► ► ►	CARD READER <text></text>	N, 0 PH. ( F
► ► ► ► ► ► ► ► ► ► ► ► ► ►	CARD READER COMMUNICATIONS DEVICE - 6" ABOVE COUNTER COMMUNICATIONS DEVICE - FLOOR COMMUNICATIONS DEVICE - WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK - SINGLE FACE WALL CLOCK - DOUBLE FACE WALL CLOCK AND SPEAKER UNIT CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND CONTRACTOR SHALL PROVIDE EXACT IONS AND LOCATIONS OF ALL DEVICES. EDESCRIPTION DETECTION DEVICE DETECTION DEVICE - DUCT MOUNTED	N, 0 PH. ( F
► ► ► ► ► ► ► ► ► ► ► ► ► ►	CARD READER COMMUNICATIONS DEVICE - 6" ABOVE COUNTER COMMUNICATIONS DEVICE - FLOOR COMMUNICATIONS DEVICE - WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK - SINGLE FACE WALL CLOCK - DOUBLE FACE WALL CLOCK AND SPEAKER UNIT CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES INDICATED. MALL DEVICES INDICATED. SECONTRACTOR SHALL PROVIDE EXACT IONS AND LOCATIONS OF ALL DEVICES. CONTRACTOR SHALL PROVIDE EXACT DESCRIPTION DETECTION DEVICE - DUCT MOUNTED DETECTION DEVICE - DUCT MOUNTED DETECTION DEVICE - FLOW SWITCH	N, 0 PH. ( F
► ► ► ► ► ► ► ► ► ► ► ► ► ►	CARD READER COMMUNICATIONS DEVICE - 6" ABOVE COUNTER COMMUNICATIONS DEVICE - FLOOR COMMUNICATIONS DEVICE - WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK - SINGLE FACE WALL CLOCK - DOUBLE FACE WALL CLOCK AND SPEAKER UNIT CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES INDICATED. GE CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES INDICATED. BESCRIPTION DESCRIPTION DETECTION DEVICE - DUCT MOUNTED DETECTION DEVICE - FLOW SWITCH DETECTION DEVICE - FLOW SWITCH	N, 0 PH. ( F
► ► ► ► ► ► ► ► ► ► ► ► ► ►	CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK – SINGLE FACE WALL CLOCK – DOUBLE FACE WALL CLOCK AND SPEAKER UNIT CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES INDICATED. GE CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES INDICATED. BESCRIPTION DETECTION DEVICE – DUCT MOUNTED DETECTION DEVICE – FLOW SWITCH DETECTION DEVICE – TAMPER SWITCH FIRE ALARM ANNUNCIATOR PANEL	N, 0 PH. ( F
► ► ► ► ► ► ► ► ► ► ► ► ► ►	CARD READER COMMUNICATIONS DEVICE – 6" ABOVE COUNTER COMMUNICATIONS DEVICE – FLOOR COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK – SINGLE FACE WALL CLOCK – DOUBLE FACE WALL CLOCK AND SPEAKER UNIT CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES INDICATED. GE CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES INDICATED. GE CONTRACTOR SHALL PROVIDE EXACT IONS AND LOCATIONS OF ALL DEVICES. EDESCRIPTION DETECTION DEVICE DETECTION DEVICE – DUCT MOUNTED DETECTION DEVICE – FLOW SWITCH DETECTION DEVICE – TAMPER SWITCH FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM CONTROL PANEL	N, 0 PH. ( F
► ► ► ► ► ► ► ► ► ► ► ► ► ►	CARD READER COMMUNICATIONS DEVICE - 6" ABOVE COUNTER COMMUNICATIONS DEVICE - FLOOR COMMUNICATIONS DEVICE - WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK - SINGLE FACE WALL CLOCK - DOUBLE FACE WALL CLOCK AND SPEAKER UNIT CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES INDICATED. GE CONTRACTOR SHALL PROVIDE EXACT IONS AND LOCATIONS OF ALL DEVICES. ELECTION DEVICE DETECTION DEVICE - DUCT MOUNTED DETECTION DEVICE - FLOW SWITCH DETECTION DEVICE - TAMPER SWITCH FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM CONTROL PANEL FIRE ALARM CONTROL PANEL FIRE DEPARTMENT COMMUNICATION OUTLET	N, 0 PH. ( F
► ► ► ► ► ► ► ► ► ► ► ► ► ►	CARD READER COMMUNICATIONS DEVICE - 6" ABOVE COUNTER COMMUNICATIONS DEVICE - FLOOR COMMUNICATIONS DEVICE - WALL MAGNETIC DOOR HOLDER PUSH BUTTON SPEAKER WALL CLOCK - SINGLE FACE WALL CLOCK - DOUBLE FACE WALL CLOCK AND SPEAKER UNIT CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES INDICATED. GE CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES INDICATED. BESCRIPTION CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES INDICATED. DESCRIPTION DETECTION DEVICE - DUCT MOUNTED DETECTION DEVICE - DUCT MOUNTED DETECTION DEVICE - FLOW SWITCH FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM CONTROL PANEL FIRE ALARM CONTROL PANEL FIRE ALARM CONTROL PANEL FIRE ALARM CONTROL PANEL	N, 0 PH. ( F
	CARD READER COMMUNICATIONS DEVICE - 6" ABOVE COUNTER COMMUNICATIONS DEVICE - FLOOR COMMUNICATIONS DEVICE - WALL MAGNETIC DOOR HOLDER PUSH BUITON SPEAKER WALL CLOCK - SINGLE FACE WALL CLOCK - DOUBLE FACE WALL CLOCK AND SPEAKER UNIT CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES INDICATED. GE CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND OR ALL DEVICES INDICATED. GE CONTRACTOR SHALL PROVIDE EXACT IONS AND LOCATIONS OF ALL DEVICES. <b>EDECRIPTION</b> DETECTION DEVICE - DUCT MOUNTED DETECTION DEVICE - FLOW SWITCH DETECTION DEVICE - TAMPER SWITCH FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM CONTROL PANEL FIRE ALARM CONTROL PANEL FIRE ALARM CONTROL PANEL FIRE DEPARTMENT COMMUNICATION OUTLET MANUAL DEVICE - PULL STATION NOTIFICATION DEVICE - WALL MOUNTED	N, 0 PH. ( F

# NOTES: 1. DRAWINGS INDICATE DESIGN INTENT ONLY, FINAL LOCATIONS AND DEVICE SPECIFICATIONS SHALL BE PROVIDED BY FIRE ALARM MANUFACTURER. REFER TO PROJECT SPECIFICATIONS FOR APPROVED MANUFACTURERS.

AI	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AIC	AVAILABLE INTERRUPTING CURRENT (AMPS)
С	CONDUIT OR CEILING MOUNTED
СВ	CIRCUIT BREAKER
CU	COPPER
СТ	CURRENT TRANSFORMER
DIA	DIAMETER
DISC	DISCONNECT
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
EPO	EMERGENCY POWER OFF
(E)	EXISTING ELECTRICAL EQUIPMENT OR WORK
FA	FIRE ALARM
FACP	
FLA	FULL LOAD AMPS
F	FUSE
G/GRD	
·	GROUND FAULT CIRCUIT INTERRUPTER
НОА	HAND-OFF-AUTO
HP	HORSEPOWER
IG	ISOLATED GROUND
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LP	LIGHTING PANEL
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUG ONLY
MAX	MAXIMUM
MIN	MINIMUM
MIN	MINIMUM
NEC	NATIONAL ELECTRICAL CODE
NEC NEMA	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEC NEMA N/NEU	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL
NEC NEMA N/NEU NF	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NON-FUSIBLE
NEC NEMA N/NEU NF NC	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NON-FUSIBLE NORMALLY CLOSED
NEC NEMA N/NEU NF NC NO	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NON-FUSIBLE NORMALLY CLOSED NORMALLY OPEN
NEC NEMA N/NEU NF NC NO NIC	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NON-FUSIBLE NORMALLY CLOSED NORMALLY OPEN NOT IN CONTRACT
NEC NEMA N/NEU NF NC NO NIC OF/CI	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NON-FUSIBLE NORMALLY CLOSED NORMALLY OPEN NOT IN CONTRACT OWNER FURNISHED / CONTRACTOR INSTALLED
NEC NEMA N/NEU NF NC NO NIC OF/CI OF/OI	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NON-FUSIBLE NORMALLY CLOSED NORMALLY OPEN NOT IN CONTRACT OWNER FURNISHED / CONTRACTOR INSTALLED
NEC NEMA N/NEU NF NC NO NIC OF/CI OF/CI OF/OI	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NON-FUSIBLE NORMALLY CLOSED NORMALLY OPEN NOT IN CONTRACT OWNER FURNISHED / CONTRACTOR INSTALLED OWNER FURNISHED / OWNER INSTALLED
NEC NEMA N/NEU NF NC NO NIC OF/CI OF/CI OF/OI PH. OR Ø	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NON-FUSIBLE NORMALLY CLOSED NORMALLY OPEN NOT IN CONTRACT OWNER FURNISHED / CONTRACTOR INSTALLED OWNER FURNISHED / OWNER INSTALLED PHASE POLE
NEC NEMA N/NEU NF NC NO NIC OF/CI OF/CI PH. OR Ø P PF	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NON-FUSIBLE NORMALLY CLOSED NORMALLY OPEN NOT IN CONTRACT OWNER FURNISHED / CONTRACTOR INSTALLED OWNER FURNISHED / OWNER INSTALLED PHASE POLE
NEC NEMA N/NEU NF NC NO NIC OF/CI OF/CI OF/OI PH. OR Ø P PF	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NON-FUSIBLE NORMALLY CLOSED NORMALLY OPEN NOT IN CONTRACT OWNER FURNISHED / CONTRACTOR INSTALLED OWNER FURNISHED / OWNER INSTALLED PHASE POLE POUEF FACTOR POLYINYL CHOLRIDE (PLASTIC)
NEC NEMA N/NEU NF NC NO NIC OF/CI OF/CI OF/OI PH. OR Ø PF PVC (R)	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NON-FUSIBLE NORMALLY CLOSED NORMALLY OPEN NOT IN CONTRACT OWNER FURNISHED / CONTRACTOR INSTALLED OWNER FURNISHED / OWNER INSTALLED PHASE POLE POLE POUER FACTOR POLYVINYL CHOLRIDE (PLASTIC) RELOCATED EXISTING ELECTRICAL EQUIPMENT
NEC NEMA N/NEU NF NC NO NIC OF/CI OF/CI OF/OI PH. OR Ø P PF PVC (R) (RR)	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NON-FUSIBLE NORMALLY CLOSED NORMALLY OPEN NOT IN CONTRACT OWNER FURNISHED / CONTRACTOR INSTALLED OWNER FURNISHED / OWNER INSTALLED PHASE POLE POLE POWER FACTOR POLYVINYL CHOLRIDE (PLASTIC) RELOCATED EXISTING ELECTRICAL EQUIPMENT REMOVE AND REINSTALL
NEC NEMA N/NEU NF NC NO NIC OF/CI OF/CI OF/OI PH. OR Ø P PF PVC (R) (RR) (RR)	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NON-FUSIBLE NORMALLY CLOSED NORMALLY OPEN NOT IN CONTRACT OWNER FURNISHED / CONTRACTOR INSTALLED OWNER FURNISHED / OWNER INSTALLED OWNER FURNISHED / OWNER INSTALLED PHASE POLE POLE POLYVINYL CHOLRIDE (PLASTIC) RELOCATED EXISTING ELECTRICAL EQUIPMENT REMOVE AND REINSTALL RIGID METALLIC CONDUIT
NEC NEMA N/NEU NF NC NO NIC OF/CI OF/CI OF/OI PH. OR Ø P PF PVC (R) (RR) (RR) RMC RP	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NON-FUSIBLE NORMALLY CLOSED NORMALLY OPEN NOT IN CONTRACT OWNER FURNISHED / CONTRACTOR INSTALLED OWNER FURNISHED / OWNER INSTALLED OWNER FURNISHED / OWNER INSTALLED PHASE POLE POLE POLE POLYINYL CHOLRIDE (PLASTIC) RELOCATED EXISTING ELECTRICAL EQUIPMENT REMOVE AND REINSTALL RIGID METALLIC CONDUIT
NEC NEMA N/NEU NF NC NO NIC OF/CI OF/CI OF/OI PH. OR Ø P PF PVC (R) (RR) RMC RP	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NON-FUSIBLE NORMALLY CLOSED NORMALLY OPEN NOT IN CONTRACT OWNER FURNISHED / CONTRACTOR INSTALLED OWNER FURNISHED / OWNER INSTALLED OWNER FURNISHED / OWNER INSTALLED PHASE POLE POLE POLE POLYVINYL CHOLRIDE (PLASTIC) RELOCATED EXISTING ELECTRICAL EQUIPMENT REMOVE AND REINSTALL RIGID METALLIC CONDUIT RECEPTACLE PANEL SPECIFICATIONS
NEC NEMA N/NEU NF NC NO NIC OF/CI OF/CI OF/OI PH. OR Ø P PF PVC (R) (RR) RMC RP SPEC/SPECS TBB	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NON-FUSIBLE NORMALLY CLOSED NORMALLY OPEN NOT IN CONTRACT OWNER FURNISHED / CONTRACTOR INSTALLED OWNER FURNISHED / OWNER INSTALLED OWNER FURNISHED / OWNER INSTALLED PHASE POLE POLE POUER FACTOR POLYINYL CHOLRIDE (PLASTIC) RELOCATED EXISTING ELECTRICAL EQUIPMENT REMOVE AND REINSTALL REMOVE AND REINSTALL REGEPTACLE PANEL SPECIFICATIONS
NEC NEMA N/NEU NF NC NO NIC OF/CI OF/CI OF/OI PH. OR Ø P PF PVC (R) (RR) (RR) RMC RP SPEC/SPECS TBB TYP.	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NON-FUSIBLE NORMALLY CLOSED NORMALLY OPEN NOT IN CONTRACT OWNER FURNISHED / CONTRACTOR INSTALLED OWNER FURNISHED / OWNER INSTALLED OWNER FURNISHED / OWNER INSTALLED PHASE POLE POLE POLE POLE POLYINYL CHOLRIDE (PLASTIC) RELOCATED EXISTING ELECTRICAL EQUIPMENT REMOVE AND REINSTALL RIGID METALLIC CONDUIT RECEPTACLE PANEL SPECIFICATIONS TELEPHONE BACKBOARD
NEC NEMA N/NEU NF NC NO NIC OF/CI OF/CI OF/OI PH. OR Ø P PF PVC (R) (RR) RMC RP SPEC/SPECS TBB TYP. UC	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NON-FUSIBLE NORMALLY CLOSED NORMALLY OPEN NOT IN CONTRACT OWNER FURNISHED / CONTRACTOR INSTALLED OWNER FURNISHED / OWNER INSTALLED OWNER FURNISHED / OWNER INSTALLED PHASE POLE POUE POUE FOUER FACTOR POLYINYL CHOLRIDE (PLASTIC) RELOCATED EXISTING ELECTRICAL EQUIPMENT REMOVE AND REINSTALL REMOVE AND REINSTALL REGEPTACLE PANEL SPECIFICATIONS TELEPHONE BACKBOARD TYPICAL UNDER COUNTER
NEC NEMA N/NEU NF NC NO NIC OF/CI OF/OI PH. OR Ø P PF PVC (R) (RR) RMC RP SPEC/SPECS TBB TYP. UC UL	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NON-FUSIBLE NORMALLY CLOSED NORMALLY OPEN NOT IN CONTRACT OWNER FURNISHED / CONTRACTOR INSTALLED OWNER FURNISHED / OWNER INSTALLED OWNER FURNISHED / OWNER INSTALLED PHASE POLE POUE POUER FACTOR POLYINYL CHOLRIDE (PLASTIC) RELOCATED EXISTING ELECTRICAL EQUIPMENT REMOVE AND REINSTALL RIGID METALLIC CONDUIT RECEPTACLE PANEL SPECIFICATIONS TELEPHONE BACKBOARD TYPICAL UNDER COUNTER UNDERWRITERS LABORATORIES
NEC NEMA N/NEU NF NC NO NIC OF/CI OF/CI OF/OI PH. OR Ø P PF PVC (R) (RR) RMC RP SPEC/SPECS TBB TYP. UC UL UPS	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NON-FUSIBLE NORMALLY CLOSED NORMALLY CLOSED NORMALLY OPEN NOT IN CONTRACT OWNER FURNISHED / CONTRACTOR INSTALLED OWNER FURNISHED / OWNER INSTALLED OWNER FURNISHED /
NEC NEMA N/NEU NF NC NO NIC OF/CI OF/OI PH. OR Ø P PF PVC (R) (RR) RMC RP SPEC/SPECS TBB TYP. UC UL	NATIONAL ELECTRICAL CODENATIONAL ELECTRICAL MANUFACTURERS ASSOCIATIONNEUTRALNOUTRALNON-FUSIBLENORMALLY CLOSEDNORMALLY OPENNOT IN CONTRACTOWNER FURNISHED / CONTRACTOR INSTALLEDOWNER FURNISHED / OWNER INSTALLEDPHASEPOLEPOLYINYL CHOLRIDE (PLASTIC)RELOCATED EXISTING ELECTRICAL EQUIPMENTREGEPTACLE PANELSPECIFICATIONSTELEPHONE BACKBOARDTYPICALUNDER COUNTERUNDER COUNTERUNDERRUTERS LABORATORIESUNINTERRUPTIBLE POWER SUPPLYUNIVERSAL SERIAL BUS
NEC NEMA N/NEU NF NC NO NIC OF/CI OF/CI OF/OI PH. OR Ø P PF PVC (R) (RR) RMC (RR) RMC (RR) RMC TYP. UC UL UPS USB	NATIONAL ELECTRICAL CODENATIONAL ELECTRICAL MANUFACTURERS ASSOCIATIONNEUTRALNON-FUSIBLENORMALLY CLOSEDNORMALLY OPENNOT IN CONTRACTOWNER FURNISHED / CONTRACTOR INSTALLEDOWNER FURNISHED / OWNER INSTALLEDPHASEPOLEPOWER FACTORPOLYUNYL CHOLRIDE (PLASTIC)RELOCATED EXISTING ELECTRICAL EQUIPMENTREMOVE AND REINSTALLREIONE BACKBOARDPICIFICATIONSELEPHONE BACKBOARDINDER COUNTERUNDER COUNTERUNDER COUNTERUNDERWRITERS LABORATORIESUNINTERRUPTIBLE POWER SUPPLYVOLT
NEC NEMA N/NEU NF NC NO NIC OF/CI OF/CI OF/OI PH. OR Ø P PF PVC (R) (RR) RMC (RR) RMC (RR) RMC TBB TYP. UC UL UL UPS USB V	NATIONAL ELECTRICAL CODENATIONAL ELECTRICAL MANUFACTURERS ASSOCIATIONNEUTRALNON-FUSIBLENORMALLY CLOSEDNORMALLY OPENNOT IN CONTRACTOWNER FURNISHED / CONTRACTOR INSTALLEDOWNER FURNISHED / OWNER INSTALLEDPHASEPOLEPOWER FACTORPOLEUPOWER FACTORRELOCATED EXISTING ELECTRICAL EQUIPMENTREGOTACLE PANELSPECIFICATIONSSPECIFICATIONSTLEPHONE BACKBOARDVIDER COUNTERUNDER COUNTERUNDER WRITERS LABORATORIESUNIVERSAL SERIAL BUSVOLTVOLTVOLT
NEC NEMA N/NEU NF NC NO NO NIC OF/CI OF/OI PH. OR Ø P PF PVC (R) (RR) (RR) (RR) (RR) (RR) RMC RP SPEC/SPECS TBB TYP. UC UL UPS USB V VA W	NATIONAL ELECTRICAL CODENATIONAL ELECTRICAL MANUFACTURERS ASSOCIATIONNEUTRALNON-FUSIBLENORMALLY CLOSEDNORMALLY OPENNOT IN CONTRACTOWNER FURNISHED / CONTRACTOR INSTALLEDOWNER FURNISHED / OWNER INSTALLEDOWNER FURNISHED / OWNER INSTALLEDPHASEPOLEPOLVINTL CHOLRIDE (PLASTIC)RELOCATED EXISTING ELECTRICAL EQUIPMENTREGOTATELLIC CONDUITREGEPTACLE PANELSPECIFICATIONSTLEPHONE BACKBOARDVIDER KOUTERUNDERRUTERS LABORATORIESUNINTERRUPTIBLE POWER SUPPLYVOLTVOLTVOLTKOLTKATO
NEC NEMA N/NEU NF NC NO NO NIC OF/CI OF/OI PH. OR Ø P PF PVC (R) (RR) (RR) RMC (RR) (RR) RMC RP SPEC/SPECS TBB TYP. UC UL UL UPS USB V V VA W WG	NATIONAL ELECTRICAL CODENATIONAL ELECTRICAL MANUFACTURERS ASSOCIATIONNEUTRALNON-FUSIBLENORMALLY CLOSEDNORMALLY OPENNOT IN CONTRACTOWNER FURNISHED / CONTRACTOR INSTALLEDOWNER FURNISHED / OWNER INSTALLEDOWNER FURNISHED / OWNER INSTALLEDPOLEPOUERPOUER FACTORRELOCATED EXISTING ELECTRICAL EQUIPMENTREGOTACLE PANELSPECIFICATIONSTELEPHONE BACKBOARDVIDER COUNTERUNDER COUNTERUNDER COUNTERUNDER SLABORATORIESUNIVERSAL SERIAL BUSVOLTVOLTWATTWART
NEC NEMA N/NEU NF NC NO NO NIC OF/CI OF/OI PH. OR Ø P PF PVC (R) (RR) (RR) (RR) (RR) (RR) RMC RP SPEC/SPECS TBB TYP. UC UL UPS USB V VA W	NATIONAL ELECTRICAL CODENATIONAL ELECTRICAL MANUFACTURERS ASSOCIATIONNEUTRALNON-FUSIBLENORMALLY CLOSEDNORMALLY OPENNOT IN CONTRACTOWNER FURNISHED / CONTRACTOR INSTALLEDOWNER FURNISHED / OWNER INSTALLEDOWNER FURNISHED / OWNER INSTALLEDPHASEPOLEPOLVINYL CHOLRIDE (PLASTIC)RELOCATED EXISTING ELECTRICAL EQUIPMENTREGOTATELLIC CONDUITREGEPTACLE PANELSPECIFICATIONSTLEPHONE BACKBOARDVIDER KOUTERUNDERRUTERS LABORATORIESUNIVERSAL SERIAL BUSVOLTVOLTVOLT AMPEREWATT

ELECTRICAL ABBREVIATIONS

ABOVE FINISHED FLOOR

AMERICAN WIRE GAUGE

AMPERE TRIP

AMPERE FUSE/AMPERE FRAME

AMPERE

DESCRIPTION

### DRAWING INDEX

SHT NO	DESCRIPTION
E0.00	ELECTRICAL GENERAL INFORMATION & LIGHTING SCHEDULE
EPD1.00	CLEMENS CENTER POWER DEMOLITION LOWER LEVEL FLOOR PLAN
ELD1.00	CLEMENS CENTER LIGHTING DEMOLITION LOWER LEVEL FLOOR PI
EP1.00	CLEMENS CENTER POWER NEW WORK LOWER LEVEL FLOOR PLAN
EL1.00	CLEMENS CENTER LIGHTING NEW WORK LOWER LEVEL FLOOR PLA
E5.00	ELECTRICAL DETAILS & PANEL SCHEDULE
E6.00	ELECTRICAL ONE-LINE DIAGRAM

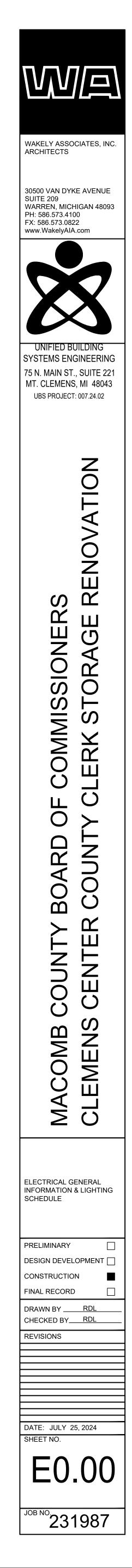
# DRAWING NOTATION

DESCRIPTION

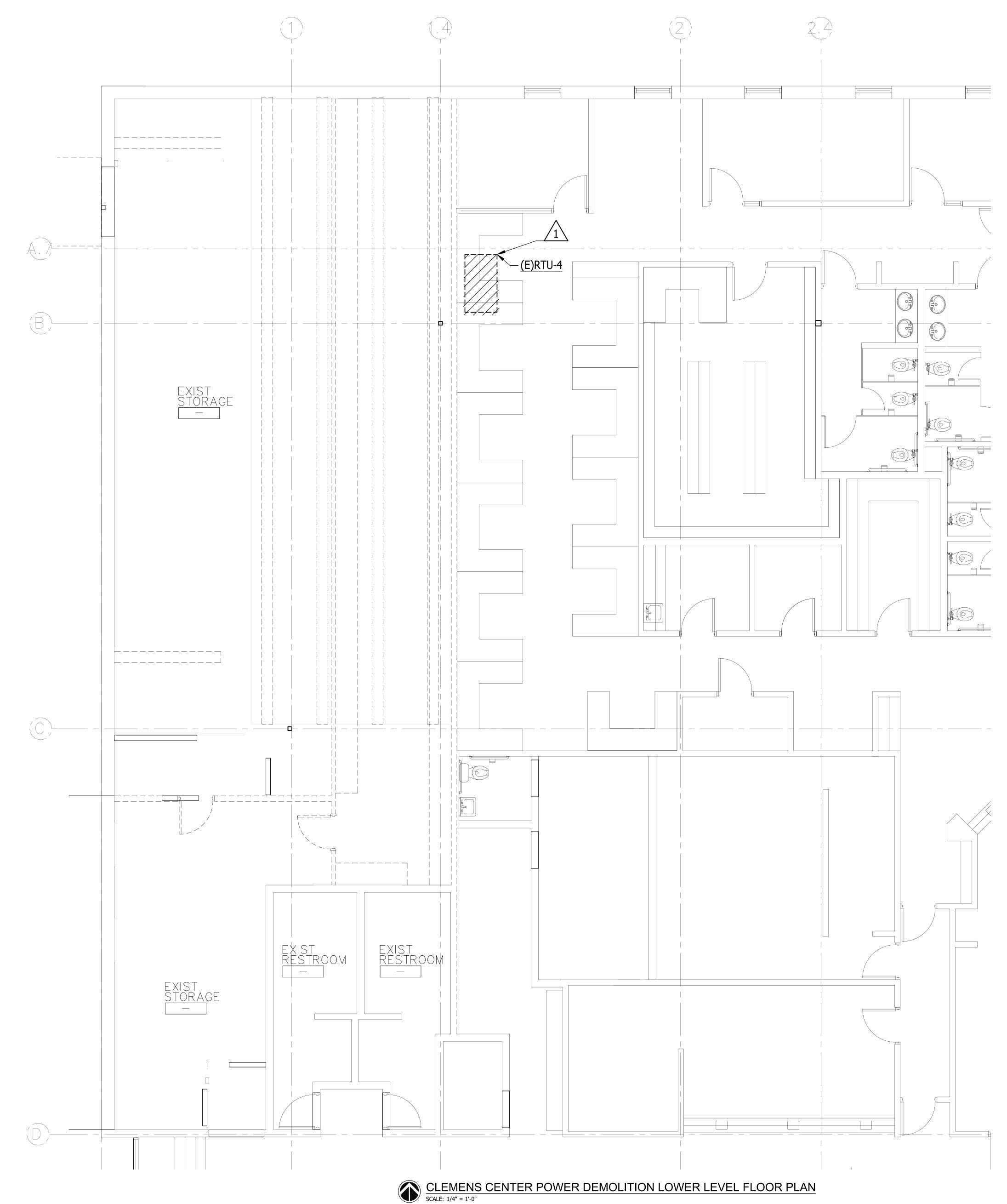
SYMBOL

STNC	L DESCRIPTION			
LA	LIGHTING FIXTURE TAG			
	CONSTRUCTION KEY NOTE NUMBER 1			
$\sum_{1}$	DEMOLITION KEY NOTE NUMBER 1			
1	FEEDER SIZE TAG (REFER TO FEEDER SCHEDULE ON THIS SHEET)			
EF-	EQUIPMENT DESIGNATION, (I.E. EXHAUST FAN NUMBER 1)			
	NEW OR MODIFIED UNDERGROUND WIRING			
<del>\//////</del>	EXISTING SYSTEM COMPONENT TO BE REMOVED			
	SECTION NUMBER 4			
	4 E5.2 SHEET E5.2 ON WHICH SECTION IS DRAWN			
	SECTION NO. 6			
	$\frac{\text{SECTION}}{\text{SCALE: } 1/4" = 1' - 0"}$			
	SHEET E5.2 ON WHICH SECTION IS CUT (ENLARGED PARTIAL PLAN SIMILAR)			
	LIGHTING CONTROL TAG			
	S CONTROL TYPE '1' CONTROL TYPE '1' CONTROL CO	,		
	APPEAR ON EVERY TAG)	)		
	APPLICABLE CODES			
APPLICABLE CODES AND REGULATIONS				
YEAR	CODE			
2015	MICHIGAN BUILDING CODE	_		
2015	MICHIGAN ENERGY CODE	_		
2023	MICHIGAN ELECTRICAL CODE RULES, PART 8			
0007				

2023	MICHIGAN ELECTRICAL CODE RULES, PART 8
2023	NATIONAL ELECTRICAL CODE (NFPA 70)
2013	NFPA 20
2013	NFPA 72
2012	NFPA 101
2013	NFPA 110
2009	ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS & FACILITIES

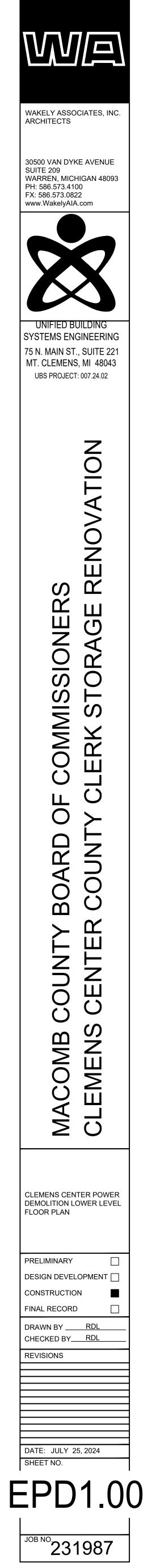


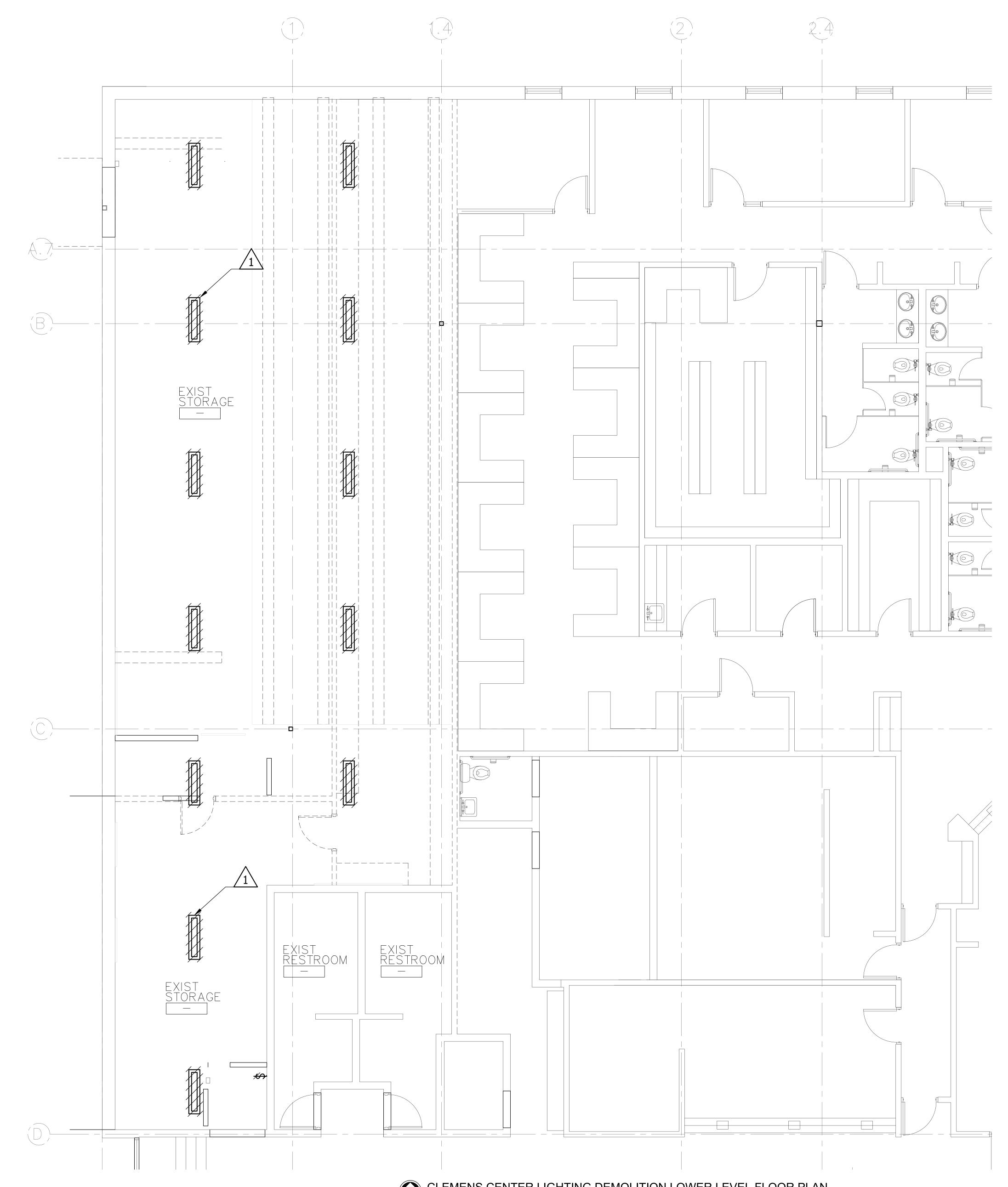
	_
N	
PLAN	
l	
AN	



DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.         ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL         BE       REPREGRMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S         REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT         BUILDING'S OPERATION.         C       PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE         SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS,         SYSTEMS, AND UTLITIES. NOTIFY DESIGN PROFESSIONAL OF ANY         INTERFERENCES OR DISCREPENCIES.         ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED         COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS,         INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS.         THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT         BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF.         GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING         F       UTLITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO         STARTING ANY WORK.       ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING         G       ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE.         H       ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE.         H       WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING         DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS         REQUI	A       EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.         B       ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.         C       PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTLITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPENCIES.         D       ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS.         E       THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT.         F       UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.         G       ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PRE XISTING GANNINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.         H       ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.	A       EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.         B       ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.         C       PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTLITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPENCIES.         D       ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS.         E       THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT.         F       UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.         G       ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PRE XISTING GANNINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.         H       ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.		GENERAL DEMOLITION NOTES	
B       BE PERFORMED AT A TIME APPROVED IN ADVANCÉ BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.         c       BRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTLITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPENCIES.         d       ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS.         T       THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT.         F       VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.         G       ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.         H       ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.	B       BE PERFORMED AT A TIME APPROVED IN ADVANCÉ BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.         C       STREAND RECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTLITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPENCIES.         D       ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS.         E       THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT.         F       VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.         G       ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PRE EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.         H       ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.	B       BE PERFORMED AT A TIME APPROVED IN ADVANCÉ BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.         C       STREAND RECOMERATION.         PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE STREAND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTLITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPENCIES.         D       ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS.         E       THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT.         F       VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.         G       ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.         H       ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.	A	EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF	
C       SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTLITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPENCIES.         D       ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS.         E       THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT.         F       VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.         G       UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.         H       ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.	C       SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTLITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPENCIES.         D       ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS.         E       THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT.         F       VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.         G       ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PRE EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.         H       ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.         DEMOLLITION KEYED NOTES         RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	C       SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTLITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPENCIES.         D       ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS.         E       THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT.         F       VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.         G       ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PRE EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.         H       ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.         DEMOLLITION KEYED NOTES         RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	В	BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT	
D       COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS.         E       THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT.         F       VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.         G       ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.         H       ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.         DEMOLITION KEYED NOTES         RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	D       COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS.         F       THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT.         F       VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.         G       ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.         H       ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.         DEMOLITION KEYED NOTES         RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	D       COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS.         F       THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT.         F       VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.         G       ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.         H       ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.         DEMOLITION KEYED NOTES         RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	С	SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTLITIES. NOTIFY DESIGN PROFESSIONAL OF ANY	
E       BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF.         GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING         RELOCATED AND OWNER PROVIDED EQUIPMENT.         VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING         UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO         STARTING ANY WORK.         ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING         UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN         LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND         REQUIRES FIELD VERIFICATION.         H         ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE.         WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING         DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS         REQUIRED TO MATCH EXISTING.	EBEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT.FVERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.GALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.HALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.DEMOLITION KEYED NOTESRTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	E       BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF.         GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING         F       VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING         UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO         STARTING ANY WORK.         ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING         UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN         LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND         REQUIRES FIELD VERIFICATION.         H         ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE.         WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING         DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS         REQUIRED TO MATCH EXISTING.	D	COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS,	
F       UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.         G       ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.         H       ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.         DEMOLITION KEYED NOTES         RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	F       UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.         G       ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.         H       ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.         DEMOLITION KEYED NOTES         RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	F       UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.         G       ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.         H       ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.         DEMOLITION KEYED NOTES         RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	E	BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING	
G       UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN         LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND         REQUIRES FIELD VERIFICATION.         ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE.         WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING         DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS         REQUIRED TO MATCH EXISTING.	G       UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN         LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND         REQUIRES FIELD VERIFICATION.         H         ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE.         WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING         DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS         REQUIRED TO MATCH EXISTING.         DEMOLITION KEYED NOTES         RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	G       UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN         LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND         REQUIRES FIELD VERIFICATION.         H         ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE.         WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING         DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS         REQUIRED TO MATCH EXISTING.	F	UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO	
H WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING. DEMOLITION KEYED NOTES RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	H WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING. DEMOLITION KEYED NOTES RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	H WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING. DEMOLITION KEYED NOTES RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	G	UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND	
RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	н	WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS	
RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE			
				DEMOLITION KEYED NOTES	
			1		

THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLTION SHALL BE DETERMINED BY THE NEW WORK. ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTLITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPENCIES. ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN RENDED PIPES AND DUCTS. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF, GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT. VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT. VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UNLESS OTHERWISEN ONTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PROVIDED INTO NELLA DE RENOTECTED DO NELANS HAS BEEN LOCATED PROVIDED THED. NALLWORK INDICATED ON PLANS HAS BEEN LOCATED PRE VISITING DRAWINGS AND/OR FIELD ODSERVATION AND REQUIRES FIELD VERIFICATION. ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK TOR REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.	EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK. ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTLITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPENCIES. ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT. VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK. ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION. ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.		GENERAL DEMOLITION NOTES	
BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTLITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPENCIES. ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT. VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK. ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PRE EXISTING DRAWINGS AND/OR FIELD ONSERVATION AND REQUIRES FIELD VERIFICATION. ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING. <b>DEMOLITION KEYED NOTES</b>	BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTLITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPENCIES. ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT. VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK. ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD ONSERVATION AND REQUIRES FIELD VERIFICATION. ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK TPIE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING. MIERE DUCT WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK TO REMAIN SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.	<b>\</b>	EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF	
SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTLITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPENCIES. ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT. VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK. ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION. ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING. <b>DEMOLITION KEYED NOTES</b>	SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTLITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPENCIES. ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT. VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK. ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION. ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.	}	BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT	
COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT. VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK. ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION. ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.	COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT. VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK. ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION. ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.	2	SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTLITIES. NOTIFY DESIGN PROFESSIONAL OF ANY	
BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT. VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK. ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION. ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.	BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT. VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK. ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION. ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.	)	COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS,	
UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK. ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION. ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.	UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK. ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION. ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING. DEMOLITION KEYED NOTES RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	Ē	BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING	
UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION. ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING. DEMOLITION KEYED NOTES RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION. ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING. DEMOLITION KEYED NOTES RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	:	UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO	
WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING. DEMOLITION KEYED NOTES RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING. DEMOLITION KEYED NOTES RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	6	UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND	
RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE		WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS	
RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE	RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE			
			DEMOLITION KEYED NOTES	

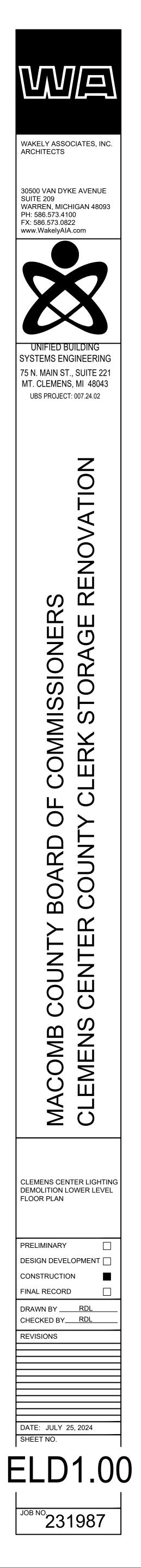


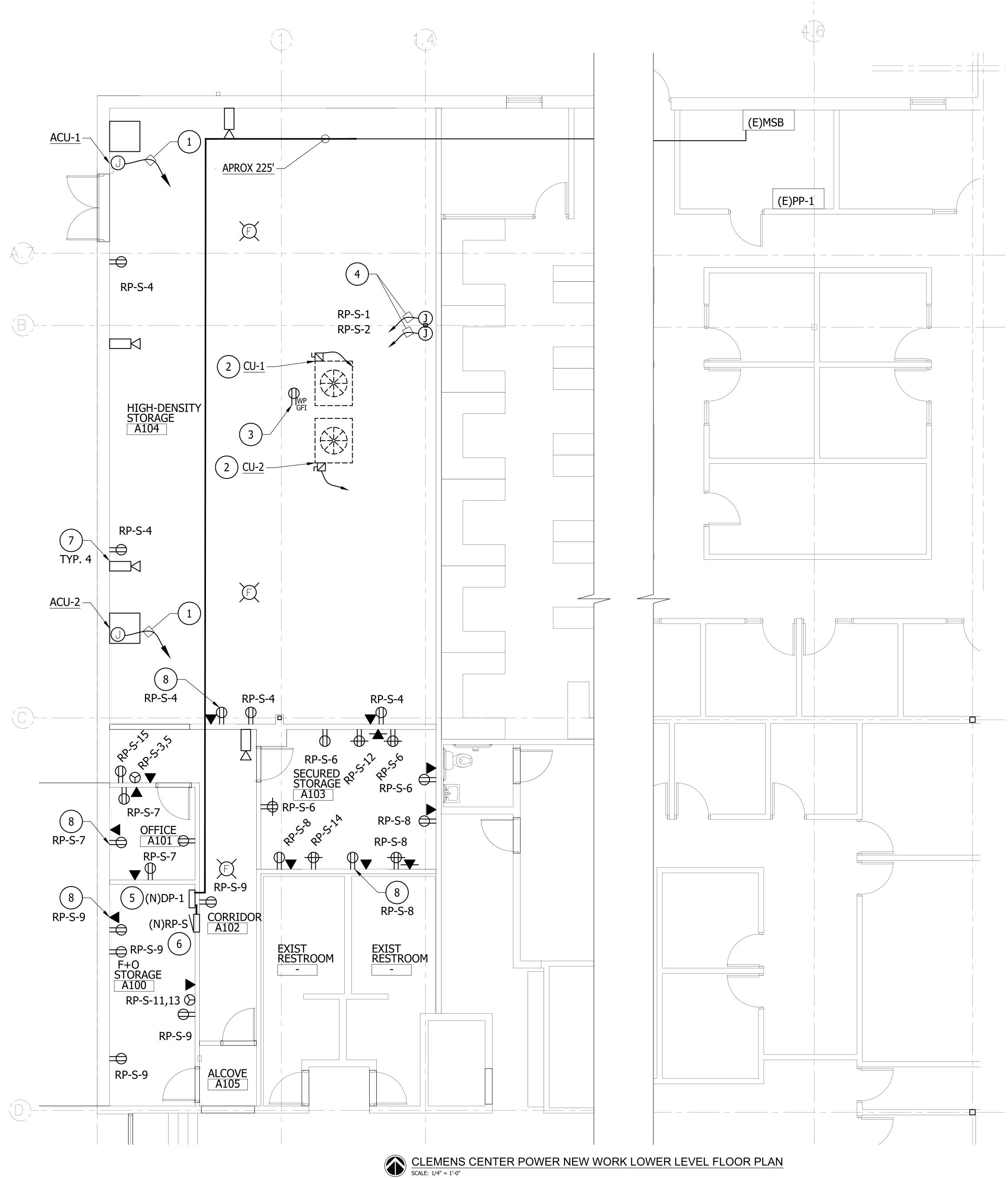


CLEMENS CENTER LIGHTING DEMOLITION LOWER LEVEL FLOOR PLAN SCALE: 1/4" = 1'-0"

Α	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
В	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
С	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTLITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPENCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.
Н	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.
	DEMOLITION KEYED NOTES
1	DISCONNECT AND REMOVE STORAGE AREA LIGHTING AND ASSOCIATED OCCUPANCY SENSORS. REFER TO NEW WORK PLANS FOR NEW STORAGE ROOM

	DEMOLITION KEYED NOTES
1	DISCONNECT AND REMOVE STORAGE AREA LIGHTING AND ASSOCIA OCCUPANCY SENSORS. REFER TO NEW WORK PLANS FOR NEW STO RENOVATION LAYOUT.

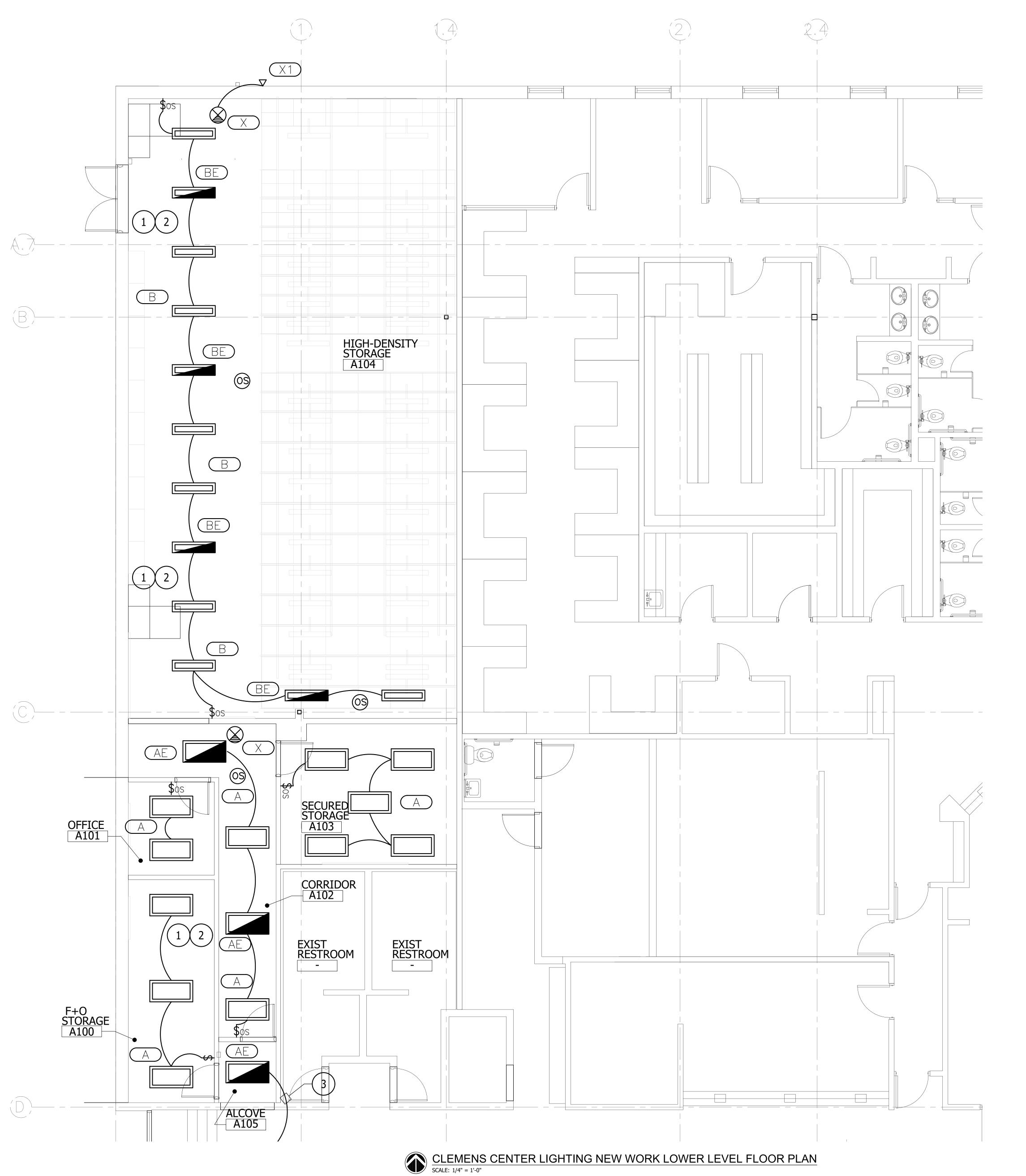




	POWER GENERAL NOTES
A	THESE DRAWINGS ARE DIAGRAMMAITC AND REPRESENT THE GENERAL EXTENT OF THE WORK TO BE PERFORMED. PROVIDE AND EXECUTE ALL HVAC SYSTEMS PER ENGINEER'S SPECIFICATION, AND LOCAL APPLICABLE CODES INCLUDING AMENDMENTS, BULLETINS, ETC. AS WELL AS THE STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISHED FOR THE BUILDINGS, AND REQUIREMENTS OF THE OWNER.
В	EXCEPT FOR CHANGES AS MAY BE SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD. IN ACCORDANCE WITH ALTERNATES OF OPTIONS AS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. SYSTEMS ARE TO BE COMPLETE, EFFICIENT, AND SATISFACTORY OPERATION WHEN PROJECT IS DELIVERED TO THE OWNER.
D	CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVAL FROM GOVERNING AUTHORITIES AND FILE NECESSARY FORMS, PAY ALL INSPECTION FEES.
Е	ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE LATEST NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE AND APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.
F	ELECTRICAL EQUIPMENT AND WIRING SHALL BE NEW AND SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED.
G	WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE 3/4" CONDUIT MINIMUM. CONDUITS IN FINISHED AREAS SHALL BE CONCEALED
Н	NEW WIRES SHALL BE TYPE THHN. MINIMUM SIZE SHALL BE #12 AWG, UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO EQUIPMENT, FURNISHED AND INSTALLED BY OTHERS, SHALL BE PROVIDED BY THIS CONTRACTOR.
J	NEW TECHNOLOGY WIRING SHALL BE SECURELY MOUNTED TO ROOF STRUCTURE WITH BRIDLE RINGS.
	NEW WORK KEYED NOTES
1	NEW ACU AND DISCONNECT TO BE PROVIDED BY MECHANICAL TRADES. REFER TO ONE LINE E6.00 FOR WIRE AND BREAKER SIZESTO NEW DP-1
2	PROVIDE NEW 30A 3P 240V DISCONNECT SWITCH FOR CONNECTION OF NEW CONDENSING UNIT. REFER TO ONE LINE E6.00 FOR WIRE AND BREAKER SIZESTO NEW DP-1
3	PROVIDE NEW 120V 20A GFI WEATHER PROOF RATED RECEPTACLE WITHIN 25 FT OF NEW HVAC UNITS, CONNECT TO CIRCUIT RP-S-10
4	PROVIDE NEW JUNCTION BOXES FOR INSTALLATION OF NEW TRACK CABINETS +90" AFF. COORDINATE WITH MANUFACTURER ON EXACT LOCATION OF JUNCTION BOX. CIRCUIT AS SHOWN
5	NEW SQUARE D ILINE PANEL 240V DP-1 TO BE INSTALL TO SUPPORT STORAGE ROOM EQUIPMENT. REFER TO ONE LINE DIAGRAM FOR DETAILS
6	NEW RP-S TO BE INSTALLED FROM ILINE PANEL. REFER TO ONE LINE DIAGRAM FOR DETAILS
	NEW JUNCTION BOX FOR FUTURE CAMERAS. COORDINATE EXACT MOUNTING

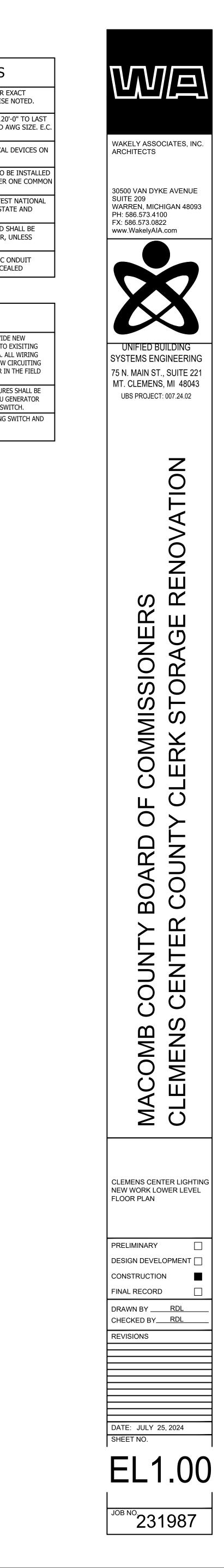
	NEW WORK KEYED NOTES
1	NEW ACU AND DISCONNECT TO BE PROVIDED BY MECHANICAL TRA TO ONE LINE E6.00 FOR WIRE AND BREAKER SIZESTO NEW DP-1
2	PROVIDE NEW 30A 3P 240V DISCONNECT SWITCH FOR CONNECTION CONDENSING UNIT. REFER TO ONE LINE E6.00 FOR WIRE AND BREA NEW DP-1
3	PROVIDE NEW 120V 20A GFI WEATHER PROOF RATED RECEPTACLE OF NEW HVAC UNITS, CONNECT TO CIRCUIT RP-S-10
4	PROVIDE NEW JUNCTION BOXES FOR INSTALLATION OF NEW TRACH +90" AFF. COORDINATE WITH MANUFACTURER ON EXACT LOCATION JUNCTION BOX. CIRCUIT AS SHOWN
5	NEW SQUARE D ILINE PANEL 240V DP-1 TO BE INSTALL TO SUPPORT ROOM EQUIPMENT. REFER TO ONE LINE DIAGRAM FOR DETAILS
6	NEW RP-S TO BE INSTALLED FROM ILINE PANEL. REFER TO ONE LINI FOR DETAILS
7	NEW JUNCTION BOX FOR FUTURE CAMERAS. COORDINATE EXACT MO



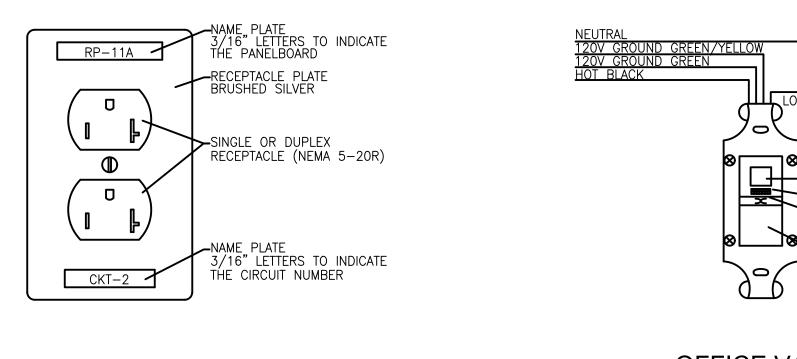


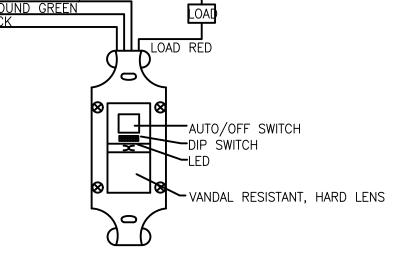
	LIGHTING GENERAL NOTES						
А	REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES UNLESS OTHERWISE NOTED.						
В	ANY 120 VOLT BRANCH CIRCUIT FEEDER LONGER THAN 120'-0" TO LAS DEVICE SHALL BE SIZED TO THE NEXT LARGER STANDARD AWG SIZE. E SHALL FIELD VERIFY ALL LENGTHS OF FEEDERS						
с	SEE LIGHT FIXTURE SCHEDULE SHEET E00. ALL ELECTRICAL DEVICES O THIS SHEET SHALL BE NEW UNLESS OTHERWISE NOTED.						
D	WHERE MORE THEN ONE LIGHT SWITCH IS INDICATED TO BE INSTALLE AT THE SAME LOCATION, THEY SHALL BE GROUPED UNDER ONE COMM FACEPLATE.						
E	ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE LATEST NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE AND APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.						
F	ELECTRICAL EQUIPMENT AND WIRING SHALL BE NEW AND SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED.						
G	WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE 3/4" C ONDUIT MINIMUM. CONDUITS IN FINISHED AREAS SHALL BE CONCEALED						

	NEW WORK KEYED NOTES
1	NEW LED FIXTURES IN THIS AREA TO REPLACE EXISTING. PROVIDE NEW CONTROL SENSORS AND LV SWITCHING AS SHOWN, CONNECT TO EXISITING CIRCUIT AVAILABLE AS A RESULT OF DEMOLITION IN THE AREA. ALL WIRING AND CONDUIT SHALL BE NEW. CIRCUIT NUMBER INDICATES NEW CIRCUITING FROM EXISTING PANEL AND BREAKER. VERIFY CIRCUIT NUMBER IN THE FIELD AND UPDATE PANEL SCHEDULES.
2	ALL NEW EMERGENCY LIGHTING INDICATED BY HATCHED FIXTURES SHALL BE CONNECTED TO EXISTING EMERGENCY LIGHTING CIRCUIT THRU GENERATOR BACK-UP AND ATS SYSTEM. PROVIDE A GENERATOR TRANSFER SWITCH.
3	CONNECT NEW LED FIXTURES TO EXISTING CORRIDOR LIGHTING SWITCH AND CONTROLS.



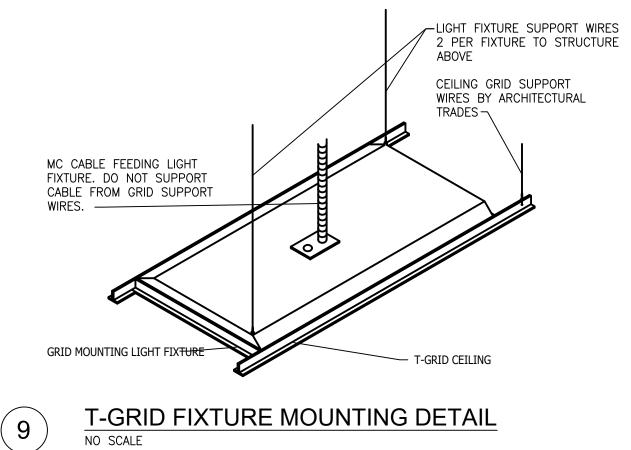
DETAIL OF BRANCH CIRCUIT NUMBER ON RECEPTACLE PLATE NO SCALE





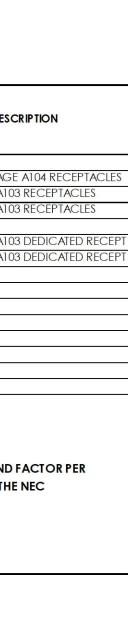
OFFICE VACANCY SENSOR SCHEMATIC

PANEL NAME: RP-S LOCATION: F+O STORAGE A100 SOURCE: REFER TO ONE LINE FEEDER SIZE: REFER TO ONE LINE			MAIN: MLO BUSSING: 125 GROUND BUS: STANDARD MOUNTING: RECESSED NEUTRAL: 100%								L-L VOLTAGE: 240 L-N VOLTAGE: 120 PHASE: 1 WIRE: 3 MIN SC INTERRUPT RATING: 10kA				
LOAD DESCRIPTION	LIGHTING LOAD	RECEPTACLE LOAD	CONTIN UOUS LOAD	NON- CONTINUOUS LOAD	OCPD	СКТ	11	L2	СКТ	OCPD	NON- CONTINUOUS LOAD	CONTINUOUS LOAD	RECEPTACLE LOAD	LIGHTING LOAD	LOAD DESCRIPTION
FRACK CABINET				1920	20	1			2	20	1920				TRACK CABINET
		1920			20	3			4	20			900		HIGH-DENSITY STORAGE A104 REC
COORIDOR A102 RECPT		1920			20	5			6	20			720		SECURED STORAGE A103 RECEPTA
OFFICE A101 RECPT		720			20	7			8	20			720		SECURED STORAGE A103 RECEPTA
+O STORAGE A100 RECPT		900			20	9			10	20			180		ROOFTOP RECPT
		1920			00	11			12	20			1000		SECURED STORAGE A103 DEDICAT
F+O STORAGE A100 RECPT		1920			20	13			14	20			1000		SECURED STORAGE A103 DEDICAT
CORRIDOR A102 DEDICATED RECEPT		1000			20	15			16	20					SPARE
SPARE					20	17			18	20					SPARE
SPARE					20	19			20	20					SPARE
SPACE						21			22						SPACE
SPACE						23			24						SPACE
SPACE						25			26						SPACE
SPACE						27			28						SPACE
SPACE						29			30						SPACE
		•	•					,					·		
		CONNEC	TED LOAD									DEMAN			
LOAD TYPE	L1		L2	TOTAL			FAC				11		L2	TOTAL	
LIGHTING LOAD (VA)	0		0	0			1.0				0		0	0	
RECEPTACLE LOAD (VA)	6640		8180	14820			(FIRS				4480		5520	10000	RECEPTACLE DEMAND FACTOR
		Amou	nt over 10kVA	4820		0.5	60 (>		(A)		1080		1330	2410	ARTICLE 220.44 OF THE NEC
CONTINUOUS LOAD (VA)	0		0	0			1.0				0		0	0	_
NON-CONTINUOUS (VA)	3840		0	3840			0.8				3072		0	3072	
TOTAL LOAD (KVA)	10.48		8.18	23.48	125% O								6.85	15.48	
TOTAL AMPACITY (A)	87.3		68.2	97.8	(<10KV	A) LO	AD P	LUS	OTHER	LOAD			57.1	64.5	
MINIMUM FEEDER SIZE (A)	96.7		79.7	108.3	< P	ER NE	CAR	TICL	E 215.	2>	81.3		68.6	74.9	



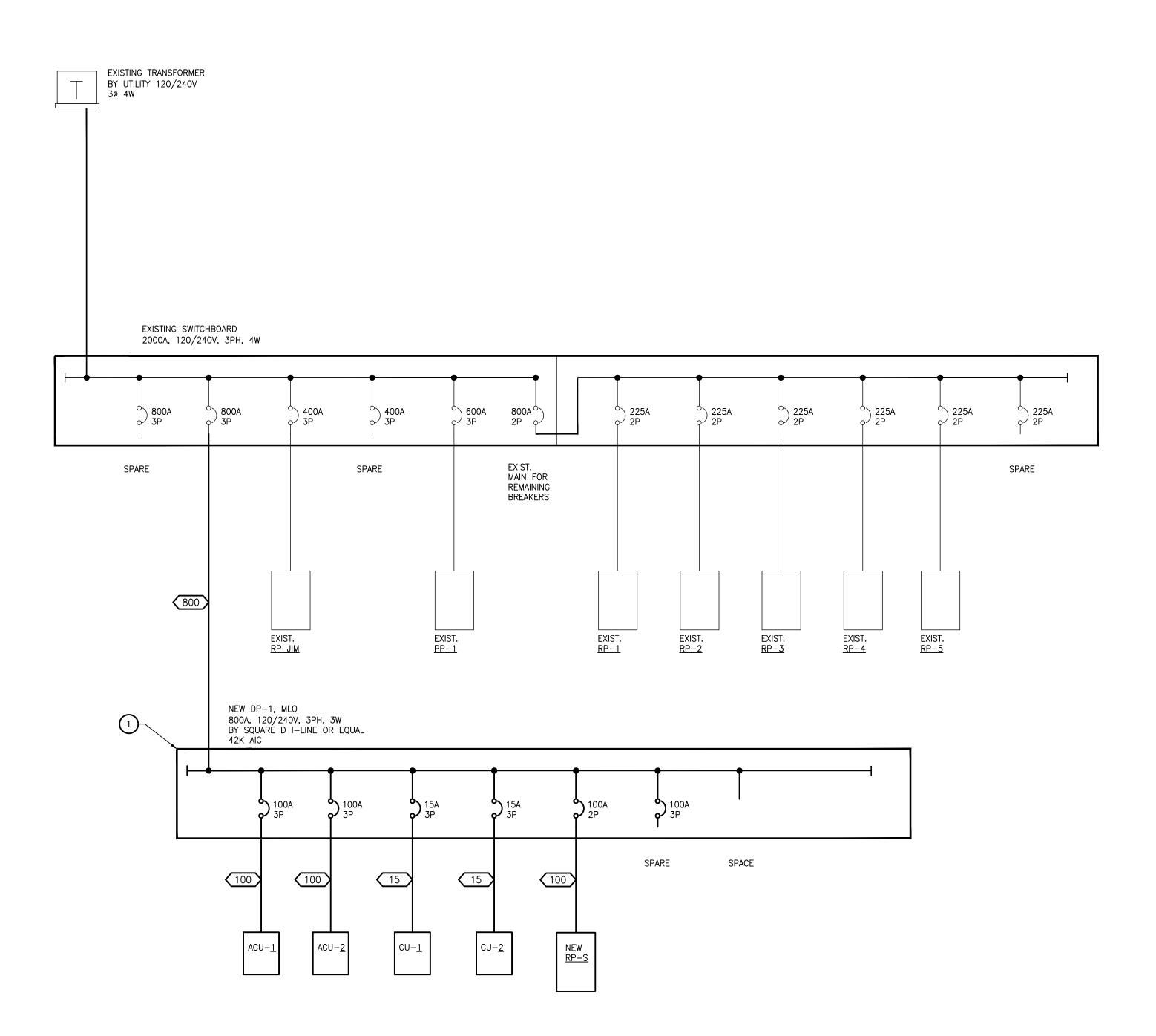
ELECTRICAL FIXTURES

- PENDANT MOUNTED FIXTURES SHALL BE DIRECTLY SUPPORTED FROM THE STRUCTURE ABOVE USING A 9 GAUGE WIRE OR AN APPROVED ALTERNATE SUPPORT WITHOUT USING THE CEILING SUSPENSION SYSTEM FOR DIRECT SUPPORT.
- 2. TANDEM FIXTURES MAY UTILIZE COMMON WIRES.



WAKELY ASSOCIATES, INC. ARCHITECTS 30500 VAN DYKE AVENUE SUITE 209 WARREN, MICHIGAN 48093 PH: 586.573.4100 FX: 586.573.0822 www.WakelyAIA.com UNIFIED BUILDING SYSTEMS ENGINEERING 75 N. MAIN ST., SUITE 221 MT. CLEMENS, MI 48043 UBS PROJECT: 007.24.02 RENOVATION COMMISSIONERS ERK STORAGE RE CLERK  $\mathbf{O}$ ЦО  $\succ$ COUNT BOARD CENTER  $\succ$ OUNT  $\mathbf{O}$ MACOMB ( CLEMENS ELECTRICAL DETAILS & PANEL SCHEDULE PRELIMINARY DESIGN DEVELOPMENT CONSTRUCTION FINAL RECORD DRAWN BY <u>RDL</u> CHECKED BY <u>RDL</u> REVISIONS DATE: JULY 25, 2024 SHEET NO. E5.00 JOB NO. 231987

FEEDER	COND.	FEEDER AND CONDUIT SIZES								
(AMPS)	SIZE	3 WIRE WITH GROUND	4 WIRE WITH GROUND							
$\boxed{15}$	12	3/4 "C, 3#12 & 1#12GRD.	3/4 "C, 4#12 & 1#12 GRD.							
(100)	1	1 1/4"C, 3#1 & 1#8 GRD.	1 1/2"C, 4#1 & 1#8 GRD.							
800	2-600	3-1/2"C, 3-600 KCMIL & 1#1/0 GRD.	4"C, 4-600 KCMIL & 1#1/0 GRD.							



PARTIAL ONE-LINE DIAGRAM-NEW WORK

X	NEW WORK KEYED NOTES
1	NEW DP-1 PROVIDE SQUARE D I-LINE STYLE PANELBOARD, SURFACE MOUNTED IN F+O STORAGE A100. USE EXISTING SPARE 800A BREAKER FROM MSB AND SIZE WIRING AND CONDUIT AS SHOWN. PROVIDE NEW BREAKERS AS SHOWN.

WAKELY ASSOCIATES, INC. ARCHITECTS 30500 VAN DYKE AVENUE SUITE 209 WARREN, MICHIGAN 48093 PH: 586.573.4100 FX: 586.573.0822 www.WakelyAIA.com UNIFIED BUILDING SYSTEMS ENGINEERING 75 N. MAIN ST., SUITE 221 MT. CLEMENS, MI 48043 UBS PROJECT: 007.24.02 RENOVATION F COMMISSIONERS CLERK STORAGE R ЦО  $\succ$ BOARD COUNT COUNTY E CENTER MACOMB C CLEMENS ELECTRICAL ONE-LINE DIAGRAM PRELIMINARY DESIGN DEVELOPMENT CONSTRUCTION FINAL RECORD DRAWN BY <u>RDL</u> CHECKED BY <u>RDL</u> REVISIONS DATE: JULY 25, 2024 SHEET NO. E6.00 <sup>ЈОВ NO</sup>231987