A R C H I T E C T U R E TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS MICHIGAN 48302 PH · 248.338.4561 FX · 248.338.0223 EM · INFO @ TMP-ARCHITECTURE.COM CANTON HIGH SCHOOL REMODELING PLYMOUTH-CANTON COMMUNITY SCHOOLS CANTON, MI PROJECT NUMBER 13083E CONSTRUCTION DOCUMENTS - BID PACKAG

LIST OF DRAWINGS GENERAL INFORMATION TS.1 COVER SHEET TG.1 GENERAL INFORMATION

LICENSEE'S STATEMENT:

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CONSULTING ENGINEERS

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PHONE: (248) 879–5666

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MECHANICAL ENGINEER

PETER BASSO ASSOCIATES INC.

PETER BASSO ASSOCIATES INC.

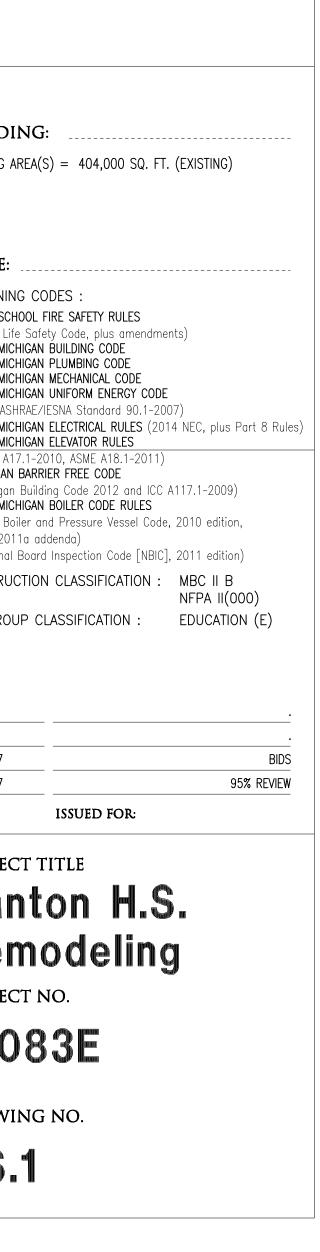
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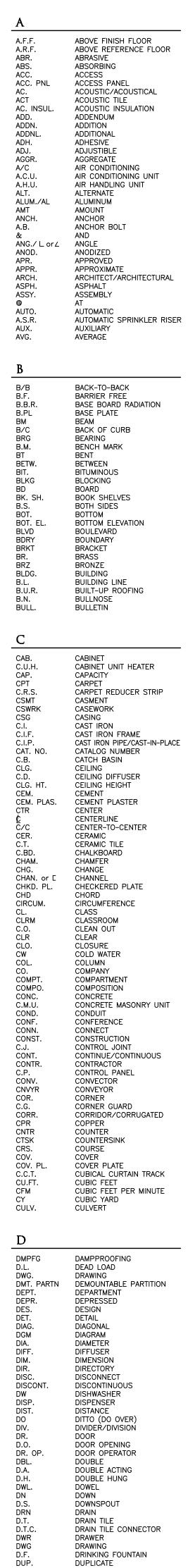
REGISTRATION SEALS

ARCHITECTURAL AC.1 FIRST LEVEL COMPOSITE PLAN AC.2 SECOND LEVEL COMPOSITE PLAN AD.1 DOOR & FRAME SCHEDULE AO.18 FIRST LEVEL DEMOLITION PLAN - ZONE 'B' AO.10 FIRST LEVEL DEMOLITION PLAN - ZONE 'C' AO.11 FIRST LEVEL DEMOLITION PLAN - ZONE 'C' AO.12 FIRST LEVEL DEMOLITION PLAN - ZONE 'C' AO.15 FIRST LEVEL DEMOLITION PLAN - ZONE 'C' AO.16 FIRST LEVEL DEMOLITION PLAN - ZONE 'F' AO.17 FIRST LEVEL DEMOLITION PLAN - ZONE 'F' AO.18 FIRST LEVEL DEMOLITION PLAN - ZONE 'F' AO.19 FIRST LEVEL DEMOLITION PLAN - ZONE 'G' AO.14 FIRST LEVEL DEMOLITION PLAN - ZONE 'H' AO.15 FIRST LEVEL DEMOLITION PLAN - ZONE 'B' AO.16 FIRST LEVEL DEMOLITION PLAN - ZONE 'B' AO.28 SECOND LEVEL DEMOLITION PLAN - ZONE 'B' AO.20 SECOND LEVEL DEMOLITION PLAN - ZONE 'B' AO.21 SECOND LEVEL DEMOLITION PLAN - ZONE 'C' AO.22 SECOND LEVEL DEMOLITION PLAN - ZONE 'B' AO.23 SECOND LEVEL DEMOLITION PLAN - ZONE 'C' AO.24 SECOND LEVEL DEMOLITION PLAN - ZONE 'C' AO.25 SECOND LE	ARCHITECTURAL A2.18 FIRST LEVEL REFLECTED CEILING PLAN - ZONE 'B' A2.10 FIRST LEVEL REFLECTED CEILING PLAN - ZONE 'C' A2.10 FIRST LEVEL REFLECTED CEILING PLAN - ZONE 'D' A2.11 FIRST LEVEL REFLECTED CEILING PLAN - ZONE 'F' A2.11 FIRST LEVEL REFLECTED CEILING PLAN - ZONE 'H' A2.13 FIRST LEVEL REFLECTED CEILING PLAN - ZONE 'H' A2.14 FIRST LEVEL REFLECTED CEILING PLAN - ZONE 'H' A2.15 FIRST LEVEL REFLECTED CEILING PLAN - ZONE 'H' A2.14 FIRST LEVEL REFLECTED CEILING PLAN - ZONE 'H' A2.15 FIRST LEVEL REFLECTED CEILING PLAN - ZONE 'H' A2.16 FIRST LEVEL REFLECTED CEILING PLAN - ZONE 'M' A2.28 SECOND LEVEL REFLECTED CEILING PLAN - ZONE 'M' A2.29 SECOND LEVEL REFLECTED CEILING PLAN - ZONE 'D' A2.20 SECOND LEVEL REFLECTED CEILING PLAN - ZONE 'D' A2.21 SECOND LEVEL REFLECTED CEILING PLAN - ZONE 'T' A2.225 SECOND LEVEL REFLECTED CEILING PLAN - ZONE 'T' A2.247 SECOND LEVEL REFLECTED CEILING PLAN - ZONE 'T' A5.1 DETAILS A10.10 FIRST LEVEL FINISH PLAN - ZONE 'D' A10.11 FIRST LEVEL FINISH PLAN - ZONE 'M' <t< th=""><th>MECHANICAL M0.1 MECHANICAL STANDARDS AND DRAWING INDEX ME1.1 MECHANICAL AND ELECTRICAL ROOF PLAN ME1.2 MECHANICAL AND ELECTRICAL ROOF PLAN M4.1E FIRST FLOOR SHEET METAL PLAN - ZONE E M5.1 ENLARGED MECHANICAL ROOM PLANS M6.1 MECHANICAL DETAILS M7.1 MECHANICAL SCHEDULES M7.2 MECHANICAL SCHEDULES M7.3 MECHANICAL SCHEDULES M8.1 TEMPERATURE CONTROL STANDARDS AND GENERAL NOTES M8.2 TEMPERATURE CONTROLS</th><th>ELE E0.1 E0.2 E0.3 E0.4 ED1.11 E2.1D E2.1E E2.2E E3.1D E4.1 E4.2 E7.1 E7.2</th></t<>	MECHANICAL M0.1 MECHANICAL STANDARDS AND DRAWING INDEX ME1.1 MECHANICAL AND ELECTRICAL ROOF PLAN ME1.2 MECHANICAL AND ELECTRICAL ROOF PLAN M4.1E FIRST FLOOR SHEET METAL PLAN - ZONE E M5.1 ENLARGED MECHANICAL ROOM PLANS M6.1 MECHANICAL DETAILS M7.1 MECHANICAL SCHEDULES M7.2 MECHANICAL SCHEDULES M7.3 MECHANICAL SCHEDULES M8.1 TEMPERATURE CONTROL STANDARDS AND GENERAL NOTES M8.2 TEMPERATURE CONTROLS	ELE E0.1 E0.2 E0.3 E0.4 ED1.11 E2.1D E2.1E E2.2E E3.1D E4.1 E4.2 E7.1 E7.2

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ABBREVIATIONS



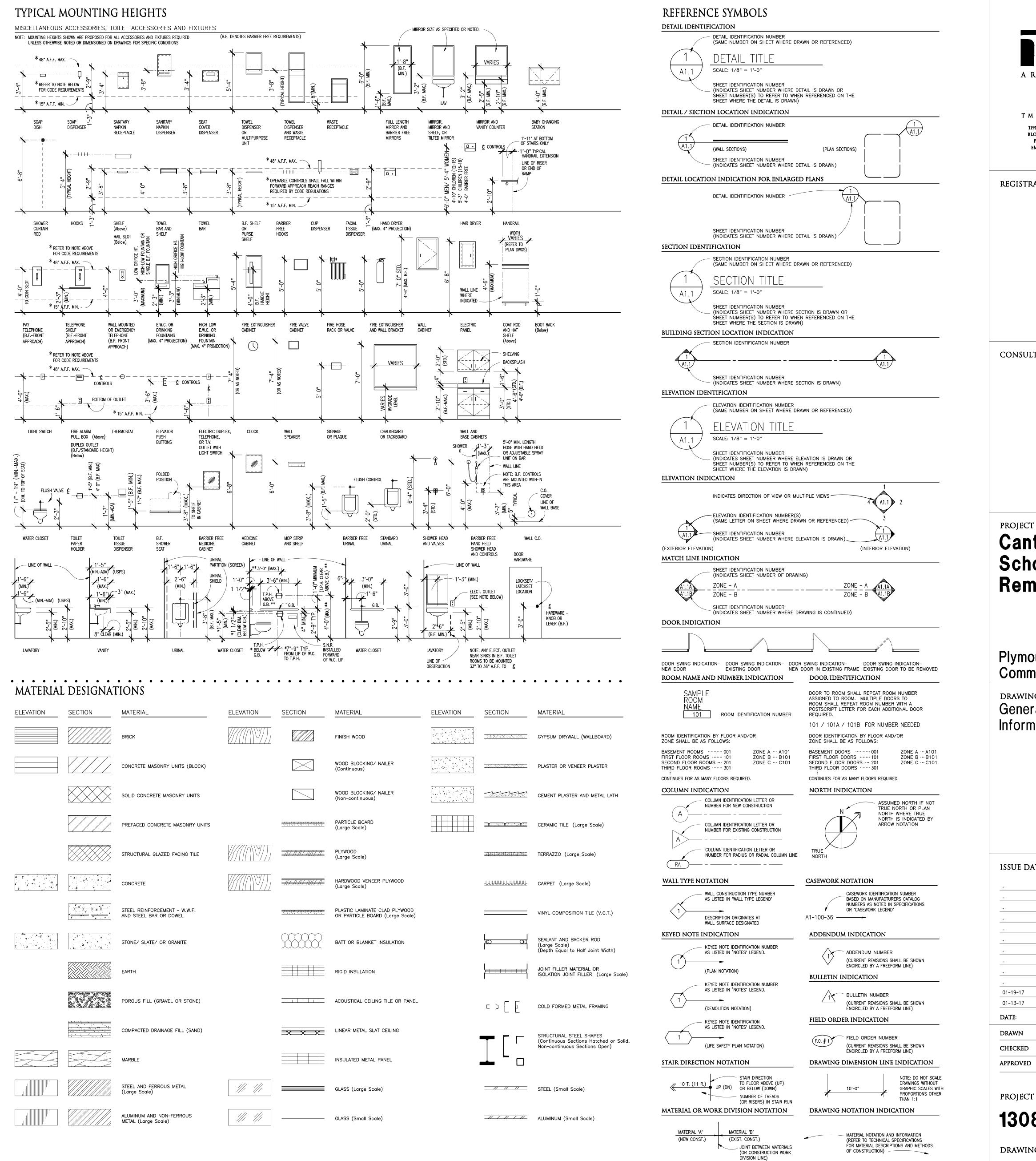
E	
EA E.F. E.W. E.I.F.S. ELAST. ELAST. FLASH. ELAST. W.P. E.S.R. ELEC. ELEC. CL. ELEC. CAB. E.C. E.P. EWC EL. ELEV. EMERG. ENCL. ENGR E/E ENTR. EP. EPDM EQ. EQUIP. EQUIP. EQUIV. EST. EXC. EXH. E.D. E.F. E.G. E.R. EXIST. EXP. B. EXP. EXP. EXP. EXP. EXP. EXP. EXP. EXP	EACH EACH FACE EACH WAY EXTERIOR INSULATION FINISH SYSTEM ELASTOMERIC ELASTOMERIC FLASHING ELASTOMERIC SHEET ROOFING ELASTOMERIC SHEET ROOFING ELECTRIC/ELECTRICAL ELECTRICAL CLOSET ELECTRICAL CABINET ELECTRICAL CABINET ELECTRICAL CABINET ELECTRICAL CONTRACTOR ELECTRICAL PANEL ELECTRICAL PANEL ELECTRICAL PANEL ELECTRICAL PANEL ELECTRICAL PANEL ELECTRICAL PANEL ELECATION ELEVATOR EMERGENCY ENCLOSURE ENGINEER END-TO-END ENTRANCE/ENTRY EPOXY ETHYLENE PROPYLENE DIENE MONOMER EQUAL EQUIPMENT EQUIVALENT ESTIMATE EXCAVATED EXTAUST GRILLE EXHAUST GRILLE EXHAUST GRILLE EXHAUST REGISTER EXISTING EXPANSION BOLT EXPANSION BOLT EXPANSION JOINT EXPANSION JOINT EXPANSION JOINT EXPANSION BOLT EXTENSION EXTERIOR EXTERIOR INSULATION FINISH SYSTEM EXTRA HEAVY EXTRUDED
FAB. F/F F. FIN. F.C.U. FAS. FT or ' FN F.BD. FIG. FIN. FLR/F.F. F.T.R. F.A. F.A. F.A. F.A. F.A. F.A. F.A. F	FABRICATED/FABRIC FACE-TO-FACE FACTORY FINISH FAN COIL UNIT FASTENER FEET/FOOT FENCE FORM BOARD FIGURE FINISH/FINISHED FINISH FLOOR FINNED TUBE RADIATION FIRE ALARM FIRE ALARM FIRE ALARM CONTROL PANEL FIRE EXTINGUISHER FIRE CALINGUISHER FIRE EXTINGUISHER CABINET FIRE HYDRANT FIRE LINE FIRE RETARDANT/FIRE RATED FIRE RETARDANT TREATED WOOD FIRE VALVE CABINET FIRE RETARDANT TREATED WOOD FIRE VALVE CABINET FIRE PROOFING FLASHING FLEXIBLE CONNECTION FLOOR CLEAN OUT FLOOR FINISH FLUORESCENT FOLDING FORMBOARD FOUNDATION FRAME FRAME AND COVER FRAME AND COVER FRAME AND COVER FRAME AND COVER FRAME AND COVER FRAME AND COVER FRAME FRAME AND COVER FRAME FRAME AND COVER FRAME FRAME AND COVER FRAME FRAME AND COVER FRAME FULL SIZE FURNISH/FURNISHED FURNISH/FURNISHED FURNISH/FURNISHED FURNISH/FURNISHED FURNISH/FURNISHED FURNISH/FURNISHED FUTURE
GA.	GAUGE
GA.	GALVANIZED
GALV.	GAS
G	GASKET
GSKT	GENERAL
GEN'L.	GLASS
GLZ	GLAZING
G.H.T.	GLAZED HOLLOW TILE
G.B.	GRAB BAR
GR.	GRADE/GRILLE
GB.	GRADE BEAM
GRAT.	GRATING
G.L.	GRID LINE
GRN	GRANITE
GND	GROUND
G.F.I.	GROUND FAULT INTERRUPTOR
GT	GROUT
G.	GUTTER ELEVATION
GYP.	GYPSUM
BD.	GYPSUM BOARD
H	HANDRAIL
H.R.	HARDBOARD
H.BD	HARDWARE
HDWE	HARDWOOD
HDWD	HEAD
HD	HEADER
HDR	HEAT ABSORBING GLASS
H.A. GL.	HEATER
HTR	HEATING
HTG	HEATING AND VENTILATING
H/V	HEATING, VENTILATING AND
H.V.A.C.	AIR CONDITIONING
HGT	HEIGHT
HEX.	HEXAGON
H.	HIGH
H.S.	HIGH POINT
H.S.B.	HIGH STRENGTH BOLT
HWY	HIGH STRENGTH BOLT
HSTWY	HIGH STRENGTH BOLT
H.C.	HIGHWAY
H.M.	HOLLOW CORE
HNYCB	HOLLOW METAL
HK	HONEYCOMB
HORIZ.	HOOK
H.B.	HORIZONTAL
H.S.P.	HOSE BIBB
H.S.P.	HOSE STAND PIPE
H.V.C.	HOSE VALVE CABINET
HR.	HOUR
H.O.	HUB OUTLET
HYD.	HYDRANT/HYDRAULIC
I I.D. IN. or " INCL. INFO. I.D. I.F. INST'L. INSUL. INT. INV. I.E.	IDENTIFICATION INCH/INCHES INCLUDE/INCLUDING INFORMATION INSIDE DIAMETER INSIDE FACE INSTALL/INSTALLATION INSULATE/INSULATION INTERIOR INVERT INVERT ELEVATION
J.C.	JANITOR CLOSET
JT	JOINT
JST	JOIST
К.Р.	KICK PLATE
кіт.	KITCHEN
к.D.	KNOCK DOWN
к.O.Р.	KNOCK-OUT PANEL

R.T.

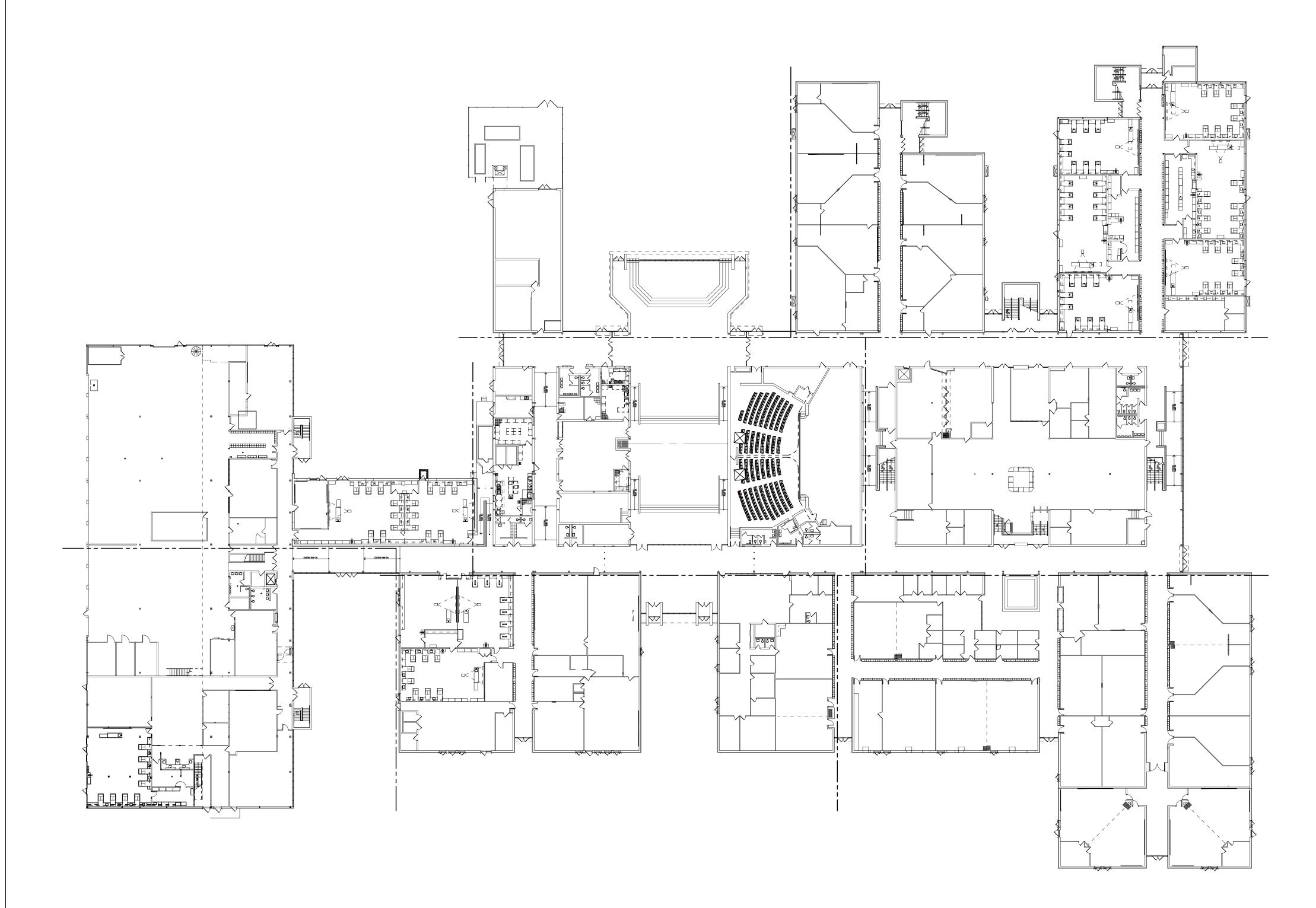
RND or ϕ

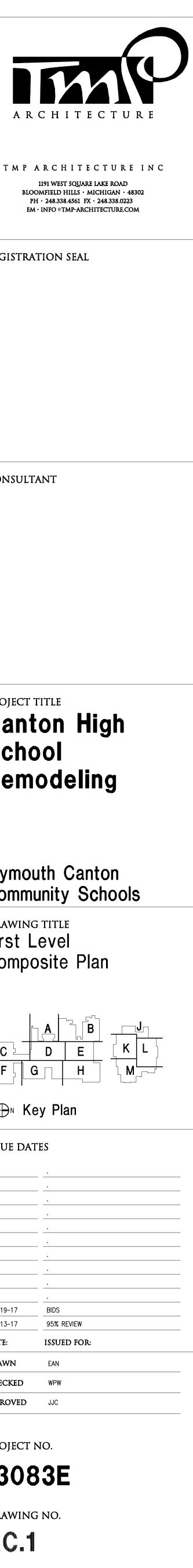
ROUND RUBBER TILE

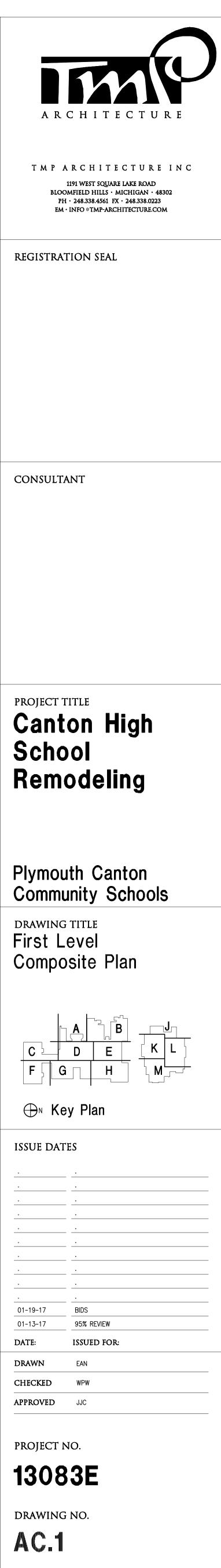
L		S	
LBL. LAB. L.B.	LABEL LABORATORY LAG BOLT	SAN. S.N.D. S.N.R.	SANITARY SANITARY NAPKIN DISPENSER SANITARY NAPKIN RECEPTACLE
LAM. LDG	LAMINATE/LAMINATED LANDING	SCHED. SCN	SCHEDULE SCREEN
LGE LDRY LAV.	LARGE LAUNDRY LAVATORY	STG SECT. SERV.	SEATING SECTION SERVICE
L.H. L.H.R.B.	LEFT HAND LEFT HAND REVERSE BEVEL	S.S. SHTHG	SERVICE SINK SHEATHING
LGTH LEV. LT.	LENGTH LEVEL LIGHT	SHT SHT. MET. SH.& R.	SHEET SHEET METAL SHELF AND ROD
LPRF LTG LTWT	LIGHTPROOF LIGHTING LIGHTWEIGHT	SHWR S.C.R. S.DR	SHOWER SHOWER CURTAIN ROD SHOWER DOOR
LTWT. CONC. LMS	LIGHTWEIGHT CONCRETE LIMESTONE	S.W. SIM.	SIDEWALK SIMILAR
LTL LIN. DIFF. L.F.	LINTEL LINEAR DIFFUSER LINEAR FEET/FOOT	SGL. SK S.D.	SINGLE SINK SOAP DISPENSER
L.L. LOC. LKR	LIVE LOAD LOCATION LOCKER	S.C. STC SP.	SOLID CORE SOUND TRANSMISSION CLASS SPACE
LG L.L.H.	LONG LONG LEG HORIZONTAL	SPR. SPKR	SPARE SPEAKER
L.L.V. LVR L.O.	LONG LEG VERTICAL LOUVER LOUVER OPENING	SPEC. SPRYD SPKLR	SPECIFICATIONS SPRAYED SPRINKLER
L.P. LBR	LOW POINT LUMBER	SQ. S.F.	SQUARE SQUARE FEET/SQUARE FOOT
LBS. or #	POUNDS	STAG. ST.STL STD	STAGGERED STAINLESS STEEL STANDARD
M MACH.	MACHINE	SP. STA. STM	STANDPIPE STATION STEAM
M.B. MACH. RM	MARKER BOARD MACHINE ROOM	STL STL. PL.	STEEL STEEL PLATE
M.A.U. MAINT. MH.	MAKE-UP AIR UNIT MAINTENANCE MANHOLE	STIFF. STO. FR. STOR.	STIFFENER STOREFRONT STORAGE
MFR MAR. MAS.	MANUFACTURER MARBLE MASONRY	STR. ST. STRUCT.	STRAIGHT STREET STRUCTURAL
M.O. MATL	MASONRY OPENING MATERIAL	S.G.F.T. S.STL	STRUCTURAL GLAZED FACING TILE STRUCTURAL STEEL
MAX. MECH. MED.	MAXIMUM MECHANICAL MEDIUM	SUPP. SURF. SUSP.	SUPPORT SURFACE/ SURFACING SUSPEND/ SUSPENSION
MEMB. MET. M.D.S.	MEMBRANE METAL METAL DIVIDER STRIP	SW. SYM SYS.	SWITCH SYMBOL/ SYMMETRICAL SYSTEM
M.E.S. M.L.	METAL EDGE STRIP METAL LATH	515.	
M.L.& PLAS. M.T. MET. W.P.	METAL LATH AND PLASTER METAL THRESHOLD METALLIC WATERPROOFING	<u> </u>	
MEZZ. MWK MIN.	MEZZANINE MILLWORK MINIMUM	T.BD TAN. TECH.	TACKBOARD TANGENT TECHNICAL
MIR. M.&S.	MIRROR MIRROR AND SHELF	TEL. TEL. CAB.	TELEPHONE TELEPHONE CABINET
MISC. M.I. MOD.	MISCELLANEOUS MISCELLANEOUS IRON MODEL	TV TEMP. TERR.	TELEVISION TEMPERATURE TERRAZZO
MON. M.S.& S.	MONUMENT MOP STRIP AND SHELF	Т.В. Т.	TEST BORING THERMOSTAT
M.O.D. MLDG MTD	MOTOR OPERATED DAMPER MOULDING MOUNTED	THK T.S. THD	THICK/ THICKNESS THICKENED SLAB THREAD
MULL	MULLION	THRESH. THRU	THRESHOLD THROUGH
N		T./ TOIL. T.P.D. T.P.H.	TOILET TOILET PAPER DISPENSER TOLET PAPER HOLDER
NAT. N.S. NRC	NATURAL NEAR SIDE NOISE REDUCTION COEFFICIENT	T & G T & B T/C	TONGUE AND GROOVE TOP AND BOTTOM TOP OF CURB
NOM. NOR.	NOMINAL NORMAL	T/EL. T/F	TOP ELEVATION TOP OF FOOTING
N NOS. N.I.C.	NORTH NOSING NOT-IN-CONTRACT	T/G T/M T/P	TOP OF GUTTER TOP OF MASONRY TOP OF PARAPET
N.T.S. NO. or #	NOT-TO-SCALE NUMBER	T/P T/R T/S	TOP OF PAVEMENT TOP OF RIM TOP OF STEEL
0		T∕W T.B.	TOP OF WALL TOWEL BAR
0BS. 0.C.	OBSCURE ON CENTER	T.D. TD & WR	TOWEL DISPENSER TOWEL DISPENSER AND WASTE RECEPTACLE
OPQ. OPG.	OPAQUE OPENING	TRAN.	TRANSOM
OPER. OPP. OPP.HD.	OPERATOR OPPOSITE OPPOSITE HAND	T T.D. TS	TREAD TRENCH DRAIN TUBE SECTION
ORIG. ORN. OZ.	ORIGINAL ORNAMENTAL OUNCE	TYP.	TYPICAL
0/0 0.A.	OUT-TO-OUT OUTSIDE AIR	<u>U</u>	
0.D. 0.F. 0.A.	OUTSIDE DIAMETER OUTSIDE FACE OVERALL	U.G. UL ULT.	UNDER GROUND UNDERWRITER'S LABORATORY ULTIMATE
OHD OHD.DR	OVERHEAD OVERHEAD DOOR	UNFIN. U.H. U.V.	UNFINISHED UNIT HEATER UNIT VENTILATOR
Р		USGS U.O.N.	UNITED STATES GEOLOGICAL SURVEY UNLESS OTHERWISE NOTED
PTD PR	PAINTED PAIR	UR.	URINAL
PNL P.T.D. P.T.W.R.	PANEL PAPER TOWEL DISPENSER PAPER TOWEL WASTE	V. BARR.	VAPOR BARRIER
PRL	RECEPTACLE PARALLEL	VAR. V. PLAS.	VARIABLE VENEER PLASTER
PKG P.BD PRTN	PARKING PARTICLE BOARD PARTITION	V. VTR VENT.	VENT VENT THRU ROOF VENTILATE/ VENTILATION
PASS. PVMT PVG	PASSAGE PAVEMENT PAVING	V.I.F. VERT. VEST.	VERIFY IN FIELD VERTICAL/ VERTICALLY VESTIBULE
PED. PERF.	PEDESTAL PERFORATED	VNY VCT	VINYL VINYL COMPOSITION TILE
PERIM. PERM. PERP.	PERIMETER PERMANENT PERPENDICULAR	VIN. FAB. V.R.S.	VINYL FABRIC VINYL REDUCER STRIP
PHOTO. P.H. PC.	PHOTOGRAPH PHYSICALLY HANDICAPPED PIECE	W	
PCS. PLAS.	PIECES PLASTER	W.CAB. W.C.O.	WALL CABINET WALL CLEAN OUT
PL. LAM. PL. PLBG	PLASTIC LAMINATE PLATE PLUMBING	W.H. W∕W	WALL HYDRANT WALL-TO-WALL
PLWD PT	PLYWOOD POINT POINT OF TANGENCY	₩.V. ₩.F. ₩.	WALL VENT WASH FOUNTAIN WASTE/ WATTS
P.T. P.C. POL.	POINT OF TANGENCT POINT OF CURVATURE POLISH/POLISHED	W.C. W.H. W.STPG.	WATER CLOSET WATER HEATER WEATHERSTRIPPING
PVC PORC. PORC. ENAM.	POLYVINYLCLORIDE PORCELAIN PORCELAIN ENAMEL	WT. W.W.F.	WEIGHT WELDED WIRE FABRIC
POR. PORT.	POROUS PORTABLE	W W. W.O.	WEST WIDE/ WIDTH WINDOW OPENING
POS. PSI PCF	POSITION POUNDS PER SQUARE INCH POUNDS PER CUBIC FOOT	W.M. w/ w/o	WIRE MESH WITH WITHOUT
P.P P/C P.T.R.	POWER PANEL PRECAST PRECAST TERRAZZO RECEPTOR	WD W.L.	WOOD WORKING LINE
PREFAB. PFN.	PREFABRICATED PREFINISHED	W.PT	WORKING POINT
P.T.WD PRIM. PROJ.	PRESERVATIVE TREATED WOOD PRIMARY PROJECT/PROJECTION	X	
PROP. P.L. P.A.	PROPERTY/PROPOSED PROPERTY LINE PUBLIC ADDRESS		
P.A. P.S. P.B.	PUBLIC ADDRESS PURSE SHELF PUSH BUTTON	Y	
Q		YD YR	YARD YEAR
QTY Q.T.	QUANTITY QUARRY TILE	Z	
QTR QTR. RD	QUARTER QUARTER ROUND	ZC	ZINC
R			
RBT RAD.	RABBET RADIUS		
R.W.C. RECV. RECPT.	RAIN WATER CONDUCTOR RECEIVE/RECEIVING		
R.P. REC.	RECEPTACLE RECEPTACLE PANEL RECESS		
RECT. RED. RWD	RECTANGLE/RECTANGULAR REDUCER REDWOOD		
REF. REFL.	REFER/REFERENCE REFLECTED/REFLECTIVE		
REFR. REINF.	REFRIGERATOR REINFORCE/REINFORCING/ REINFORCEMENT		
REM. REQ'D. RESIL.	REMOVE/REMOVABLE REQUIRED RESILIENT		
REV. R.	REVISED/REVISION RISER		
R.H. R.H.R.B. R.O.W.	RIGHT HAND RIGHT HAND REVERSE BEVEL RIGHT OF WAY		
RD R.S.C. R.C.	ROAD ROLLING STEEL CURTAIN ROOF CONDUCTOR		
R.D. R.H.	ROOF DRAIN ROOF HATCH		
R.S. R.V. RFG	ROOF SUMP ROOF VENTILATOR ROOFING		
R.T.U. RM R.O.	ROOF TOP UNIT ROOM ROUGH OPENING		
	COULD LINING		

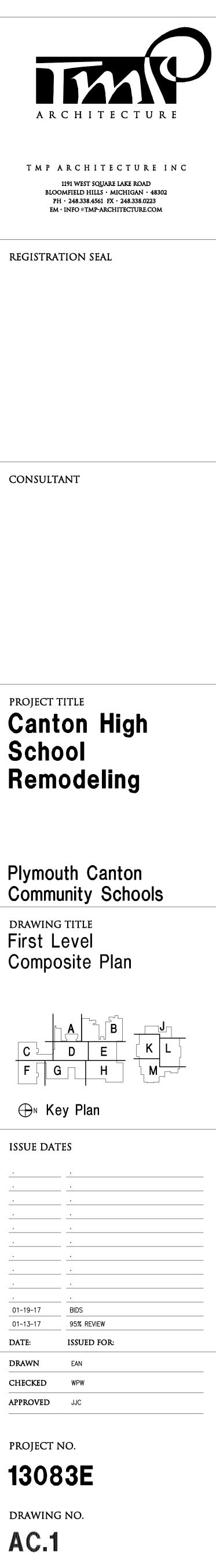


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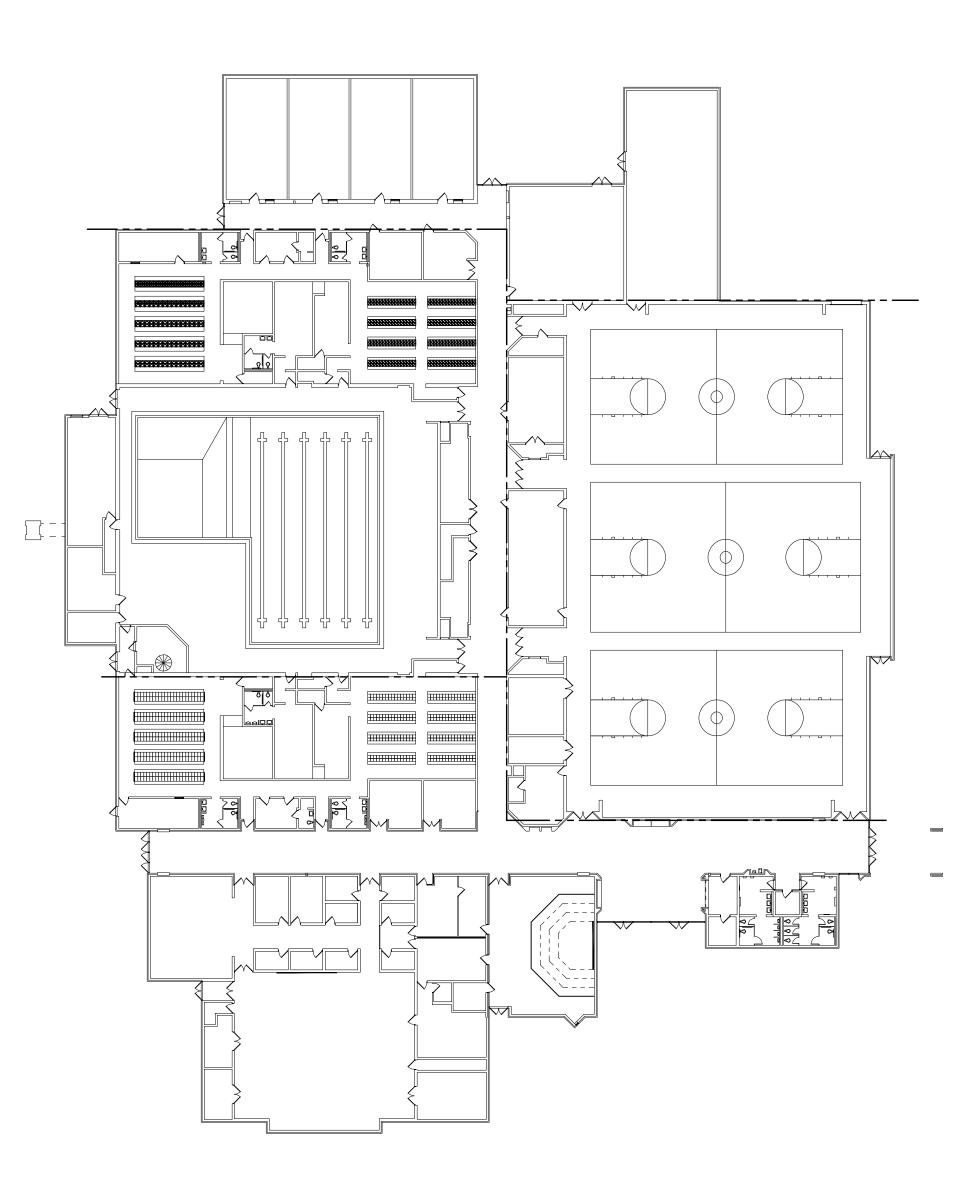






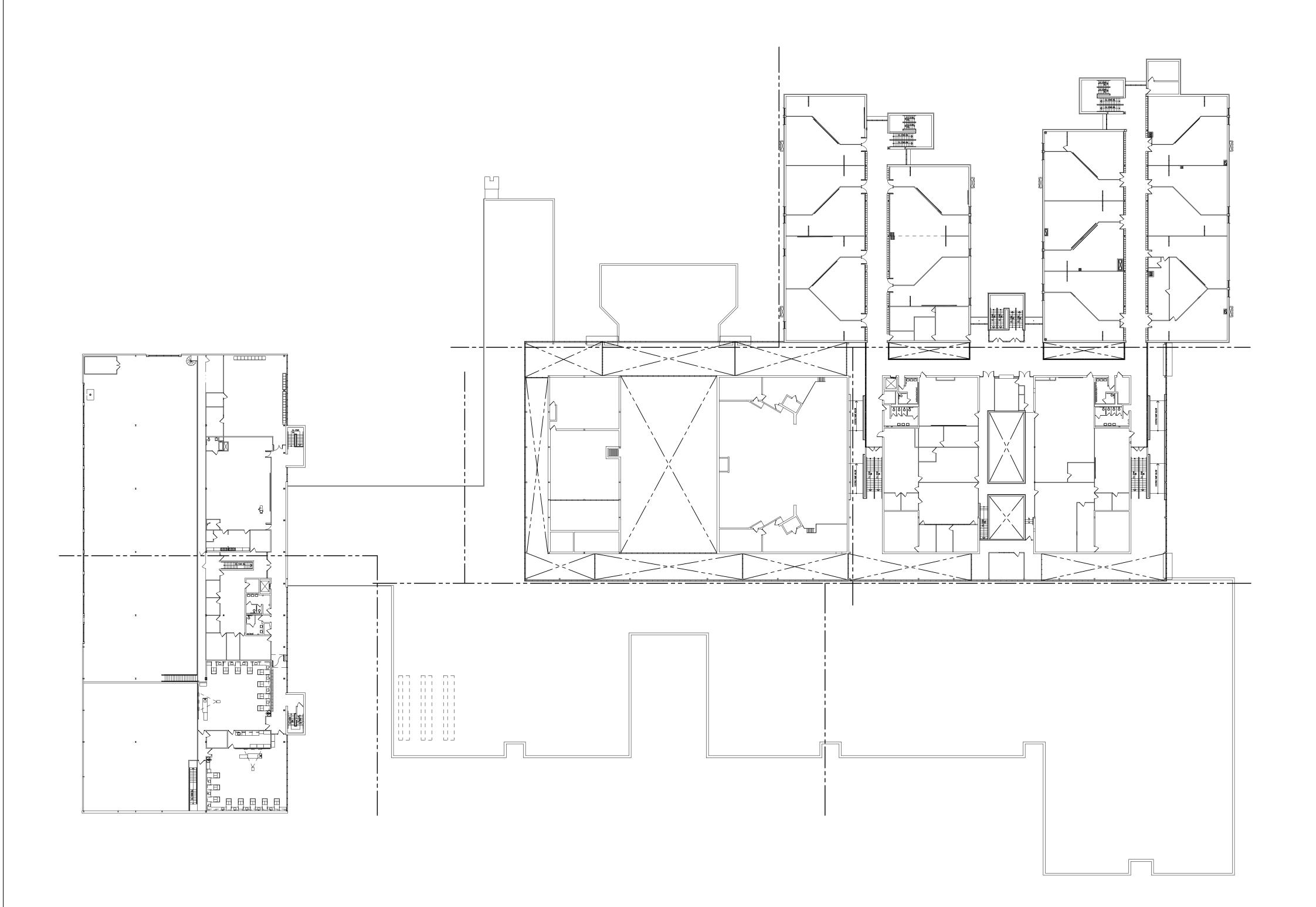


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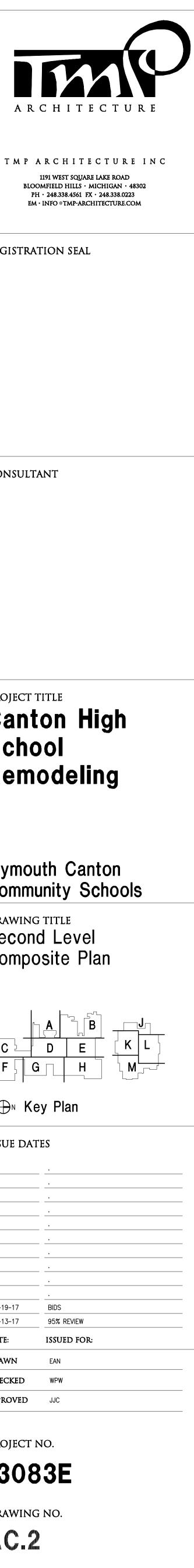




FIRST LEVEL COMPOSITE FLOOR PLAN SCALE: 1/32" = 1'-0"

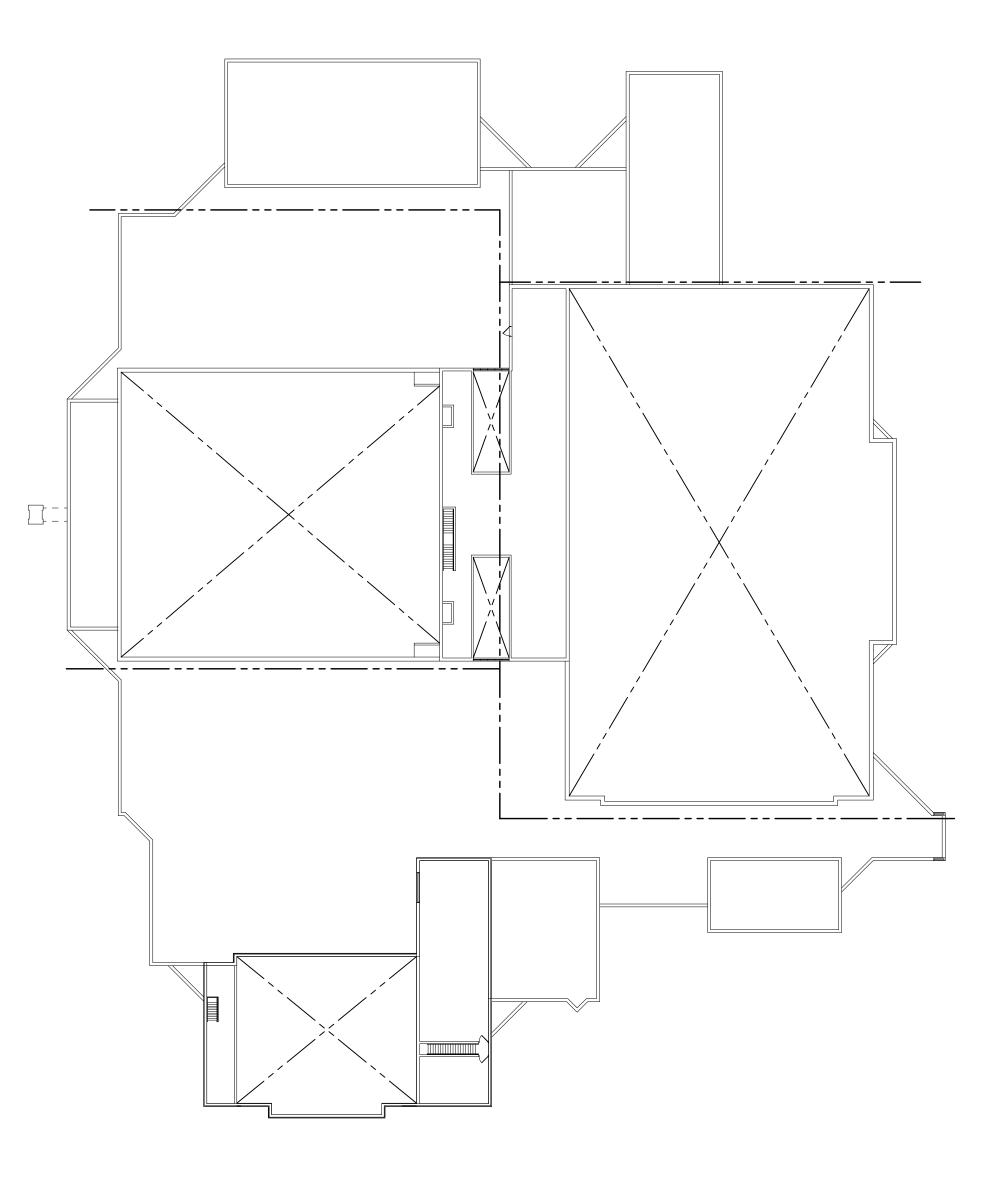


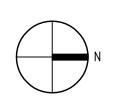
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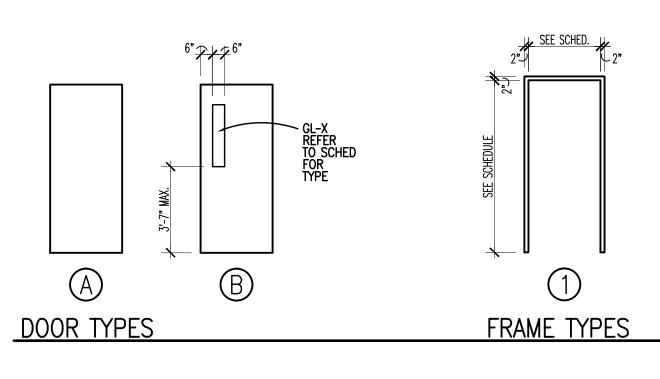
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-	ning	D	oor			F	ram	e		Details	-		م [Set	B Remarks
No.	Opening Size (Width x Height)	Type	Material	Finish	Glass	Type	Material	Finish	Glass	Head	Jamb	Sill	Threshold	U.L. Label	Hdwe. S	
First	: Level - Zone) 'E	3'													
B124A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	HM	PTD						20	01	
B128A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	HM	PTD	•		•	•		20	01	
B129A	3'-0"x 7'-0" V.I.F. 3'-0"x 7'-0" V.I.F.	B	WD WD	PFN	GL-2	EX	HM	PTD	•	•	•	•	•	20	01	•
B131A B133A	3'-0"x 7'-0" V.I.F.	BB	WD WD	PFN PFN	GL-2 GL-2	EX EX	HM HM	PTD PTD	•		· · ·	· · · · · · · · · · · · · · · · · · ·	•	20 20	01	· · · · · · · · · · · · · · · · · · ·
B135A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	HM	PTD	•		•			20	01	
B136A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	HM	PTD	•					20	01	
B138A B141A	3'-0"x 7'-0" V.I.F. 3'-0"x 7'-0" V.I.F.	BB	WD WD	PFN PFN	GL-2 GL-2	EX EX	HM HM	PTD PTD	•	·	· ·	· · · · · · · · · · · · · · · · · · ·	· ·	20 20	01 01	•
B142A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	НМ	PTD	•	•	•	•	•	20	01	•
B145A	3'-0"x 7'-0" V.I.F.	B	WD	PFN	GL-2	EX	HM	PTD			•	•		20	01	
B146A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	HM	PTD	•	•	•	•	•	20	01	•
Fire	: Level - Zone	י ג	<u>`</u>							•						
	i	1	1	חביי		F Y	ΓV			1				00	04	İ
C108A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	EX	EX	• 	·	•	•		20	01	· ·
First	: Level - Zone	; ' [)'			_										
D101A	3'-0 * x 7'-0" V.I.F.	A	WD	PFN		1	HM	PTD	-					20	02	
D101B	2'-8"x 7'-0" V.I.F.	A	WD	PFN		1	HM	PTD	-		•			20	02	
D101C	2'-6"x 7'-0" V.I.F. 2'-6"x 7'-0" V.I.F.	A	WD WD	PFN PFN	.	EX EX	HM	PTD PTD	.	<u>↓ ·</u>	•	•		20 20	02	·
D101D D108A	2'-6"x 7'-0" V.I.F. 3'-0"x 7'-0" V.I.F.	A B	WD WD	PFN PFN	GL-2	EX EX	HM HM	PTD	· .		· · ·	•	· ·	20 20	02 03	· · · · · · · · · · · · · · · · · · ·
D108B	3'-0"x 7'-0" V.I.F.	B	WD	PFN	GL-2	EX	HM	PTD	.			•		20	03	
D108C	3'-0"x 7'-0" V.I.F.	B	WD WD	PFN	GL-2	EX EX	HM	PTD	. 	•	•	•		20	03	.
D108D	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	HM	PTD	• 	· ·	•	· ·		20	03	· ·
First	: Level - Zone	; 'E				_			_					-		
E103A	3'-0"x 7'-0" V.I.F.	B	• WD	PFN	GL-2	EX	НМ	PTD			•			20	01	
E121A	3'-0"x 7'-0" V.I.F.	B	WD	PFN	GL-2	EX	HM	PTD			•			20	01	•
E134A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	HM	PTD	•		•	•		20	01	
F101A F102A F108A	Level - Zone 3'-0"x 7'-0" V.I.F. 3'-0"x 7'-0" V.I.F. 3'-0"x 7'-0" V.I.F.	} '⊢ В В В	WD WD WD	PFN PFN PFN	GL-2 GL-2 GL-2	EX EX EX	HM HM HM	PTD PTD PTD				· · · · · · · · · · · · · · · · · · ·	· · ·	20 20 20	04 05 01	• •
First	: Level - Zone) 'C	3'													
G103A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	HM	PTD	•					20	05	
G103B	3'-0"x 7'-0" V.I.F.	B	WD WD	PFN	GL-2	EX	HM	PTD	. 		•	•	<u> </u> .	20	05	
G115A G127A	3'-0"x 7'-0" V.I.F. 3'-0"x 7'-0" V.I.F.	BB	WD WD	PFN PFN	GL-2 GL-2	EX EX	HM HM	PTD PTD	· .	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	•	· · ·	20 20	01 06	· · · · · · · · · · · · · · · · · · ·
G128A	3'-0"x 7'-0" V.I.F.	B	WD	PFN	GL-2	EX	HM	PTD	•		•	•		20	01	·
G130A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	HM	PTD				•		20	01	
G136A G139A	3'-0"x 7'-0" V.I.F. 3'-0"x 7'-0" V.I.F.	BB	WD WD	PFN PFN	GL-2 GL-2	EX EX	HM HM	PTD PTD	• _		· ·	•	- ·	20 20	01	· · · · · · · · · · · · · · · · · · ·
G139A G141A	3'-0"x 7'-0" V.I.F.	B	WD	PFN	GL-2	EX	HM	PTD	•		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		20	07	
G142A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-4	EX	HM	PTD			•	•		60	01	
G144A G145A	3'-0"x 7'-0" V.I.F. 3'-0"x 7'-0" V.I.F.	B B	WD WD	PFN PFN	GL-2 GL-2	EX EX	HM HM	PTD PTD	• 		· · ·	•	<u> </u> ·	20 20	04 04	• .
G145A G145B	3'-0"x 7'-0" V.I.F.	B	WD	PFN	GL-2 GL-2	EX	HM	PTD	•		· · · · · · · · · · · · · · · · · · ·	•		20	04	· · · · · · · · · · · · · · · · · · ·
	: Level - Zone	1			1			1	1		1	1	i	1	i	i
H101A	3'-0"x 7'-0" V.I.F.	B	WD	PFN	GL-2	EX EX	HM	PTD	•		•	•	•	20	01	
H103A H105A	3'-0"x 7'-0" V.I.F. 3'-0"x 7'-0" V.I.F.	B B	WD WD	PFN PFN	GL-2 GL-2	EX EX	HM HM	PTD PTD	· · ·	· ·	· · · · · · · · · · · · · · · · · · ·	•	· · ·	20 20	01 01	· ·
H107A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	HM	PTD	.			•		20	05	
H109A	3'-0"x 7'-0" V.I.F.	B	WD	PFN	GL-2	EX	HM	PTD	•		•			20	05	
H111A H115A	3'-0"x 7'-0" V.I.F. 3'-0"x 7'-0" V.I.F.	BB	WD WD	PFN PFN	GL-2 GL-2	EX EX	HM HM	PTD PTD	· .	· · · · · · · · · · · · · · · · · · ·	· · ·	•		20 20	01	· · · · · · · · · · · · · · · · · · ·
H116A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	HM	PTD	•	·	· · · · · · · · · · · · · · · · · · ·	•	•	20	01	·
H118A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	HM	PTD		·		•	•	20	01	·
H119A H123A	3'-0"x 7'-0" V.I.F. 3'-0"x 7'-0" V.I.F.	BB	WD WD	PFN PFN	GL-2 GL-2	EX EX	HM HM	PTD PTD	·		•	•	•	20 20	01	• .
H125A H126A	3'-0"x 7'-0" V.I.F.	B	WD	PFN	GL-2 GL-2	EX	HM	PTD	· .		· ·	•	•	20	01	
H127A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	HM	PTD	•	•	•	•	•	20	05	
H128A	3'-0"x 7'-0" V.I.F.	B	WD WD	PFN	GL-2	EX	HM	PTD		· · · · · · · · · · · · · · · · · · ·	•	•		20	01	.
- 1 - 11 - 1 A	3'-0"x 7'-0" V.I.F. 3'-0"x 7'-0" V.I.F.	BB	WD WD	PFN PFN	GL-2 GL-2	EX EX	HM HM	PTD PTD	• .	<u>↓ ·</u> ↓ .	· · · · · · · · · · · · · · · · · · ·	· · ·	•	20 20	01	· · · · · · · · · · · · · · · · · · ·
		В	WD	PFN	GL-2	EX	HM	PTD	•	·	· · ·	•	•	20	01	·
H141A	3'-0"x 7'-0" V.I.F.	–												1	1	
H129A H141A H152A H153A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	HM	PTD	•	•	•	•	•	20	01	•
H141A H152A				PFN PFN PFN	GL-2 GL-2 GL-2	EX EX EX	HM HM HM	PTD PTD PTD		· ·	· · · · · · · · · · · · · · · · · · ·	•	· · ·	20 20 20	01 01 01	• • •

	DOOR &	F	R/	M	E	S	CH	ED	UL	E						
Оре	ning	D	00r			Frame				Details	Details				Set	Remarks
No.	Opening Size (Width x Height)	Type	Material	Finish	Glass	Type	Material	Finish	Glass	Head	Jamb	Sill	Threshold	U.L. Label	Hdwe. Se	
Sec	ond Level - Zo	one	э 'В	1	•											
B223A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	НМ	PTD		•				20	01	
B224A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	НМ	PTD	•					20	05	
B225A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	НМ	PTD	•					20	05	
B226A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	НМ	PTD	•					20	01	
B227A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	НМ	PTD						20	01	
B228A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	НМ	PTD						20	01	
B229A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	НМ	PTD						20	01	
B230A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	НМ	PTD						20	01	
B231A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	НМ	PTD						20	01	
B232A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	НМ	PTD						20	01	
B232B	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	НМ	PTD	•					20	01	
B233A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	НМ	PTD	•	•	•			20	01	
Sec	ond Level - Zo	one	e 'C	1												
C206A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	НМ	PTD	•					20	05	
C206B	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	НМ	PTD						20	05	
C210A	3'-0"x 7'-0" & 2'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	HM	PTD	•	•	•		•	20	08	
Sec	ond Level - Zo	one) ' E')												
E222A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	НМ	PTD	•	٠	•	•		20	01	•
E236A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	НМ	PTD	•	•	•	•		20	09	•
E236B	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	НМ	PTD	•	•	•	•		20	09	•
E239A	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	НМ	PTD	•	•	•	•		20	09	•
E239B	3'-0"x 7'-0" V.I.F.	В	WD	PFN	GL-2	EX	НМ	PTD	•					20	09	



DOOR SCHEDULE ABBREVIATIONS AND NOTES L DOOR INFORMATION)

(REFER TO S	PECIFICATIONS FOR ADDITIONAL DOC
DOOR SCH	EDULE ABBREVIATIONS
AL	ALUMINUM
ALGL	ALUMINUM AND GLASS
НМ	HOLLOW METAL
WD	SOLID CORE HARDWOOD

PFN

PTD

MAR

MET

LAM

FRP Ststl

STL

- PREFINISHED BY MANUFACTURER PAINTED SYNTHETIC MARBLE THRESHOLD METAL THRESHOLD PLASTIC LAMINATE CLAD FIBERGLASS REINFORCED POLYESTER
- STAINLESS STEEL STEEL
- DOOR SCHEDULE GENERAL NOTES
- 2. DOORS ARE 1-3/4" THICK UNLESS OTHERWISE NOTED.
- 3. DETAIL NUMBERS NOTED SIM. REFER TO DETAILS SHOWING HEAD,

1. GALVANIZED METAL TO BE PROVIDED FOR HOLLOW METAL DOOR AND/OR FRAME AT EXTERIOR LOCATION.

JAMB, AND/ OR SILL DETAILS THAT REPRESENT CONDITIONS SIMILAR TO THOSE NOTED.

4. HOLLOW METAL FRAMES SET IN MASONRY WALLS ARE 5 3/4" WIDE (U.O.N.).

HOLLOW METAL FRAMES, SET IN GYPSUM BD. /METAL STUD PARTITIONS, SHALL BE "DOUBLE BACK-BEND" FRAMES WITH A THROAT DIMENSION EQUAL TO THE PARTITION THICKNESS PLUS 9/16" RETURNS ON EACH SIDE OF THE PARTITION. PROVIDE EQUAL RABBETS.

6. AN ASTERISK (*) CALLS ATTENTION TO THE REMARKS COLUMN OF THE SCHEDULE.

7. CONTRACTOR SHALL VERIFY EXISTING FRAME OPENING SIZE AND HARDWARE LOCATIONS FOR ALL DOORS SCHEDULED TO BE REPLACED WITH EXISTING FRAME TO REMAIN.

U.L. DOOR LABEL DESIGNATIONS: U.L. LABEL**MIN. OPENING PROTECTION ASSEMBLY1803 HR. FIRE RATING 1–1/2 HR. FIRE RATING 1 HR. FIRE RATING 3/4 HR. FIRE RATING 1/3 HR. FIRE RATING

90

20

** All fire rated doors shall be smoke and draft control labeled in addition to U.L. labels indicated.

GLAZING TYPES

(REFER TO SPECIFICATIONS FOR ASSEMBLIES)

- GL-1 1/4" (6mm) TEMPERED MONOLITHIC GLASS
- GL-2 20-MINUTE FIRE RATED GLASS
- GL-3 45-MINUTE FIRE RATED GLASS
- GL-4 60 & 90 MINUTE FIRE RATED DOOR GLASS GL-5 60 MINUTE FIRE RATED WALL/WINDOW GLASS
- GL-6 1" (25mm) TINTED ANNEALED INSULATING GLASS (LOW-E)
- GL-7 1" (25mm) TINTED TEMPERED INSULATING GLASS (LOW-E)



DRAWING NO.

REVIEW
ED FOR:



Plymouth Canton Community Schools

Door & Frame Schedule

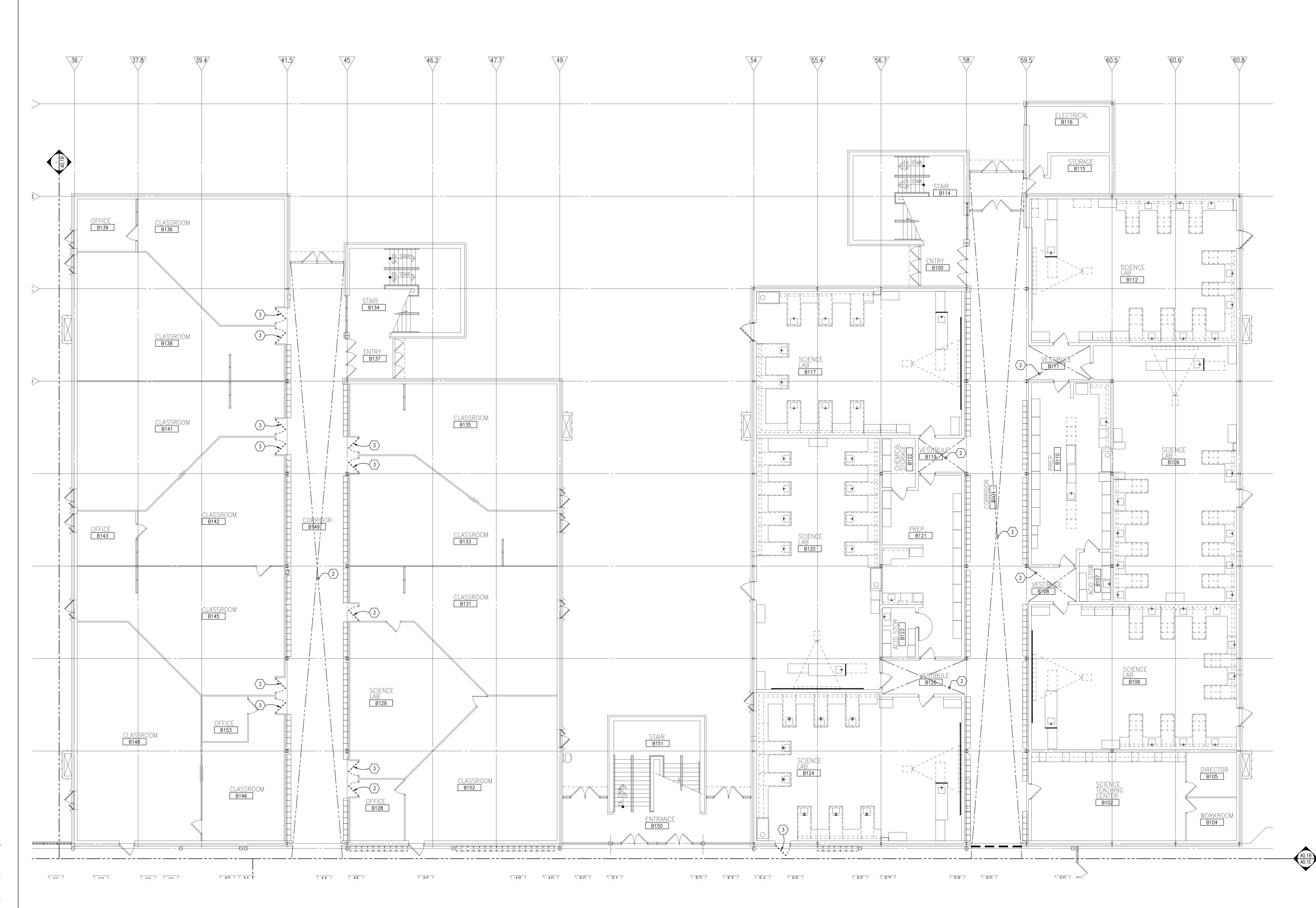
DRAWING TITLE

CONSULTANT

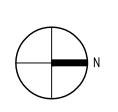
REGISTRATION SEAL

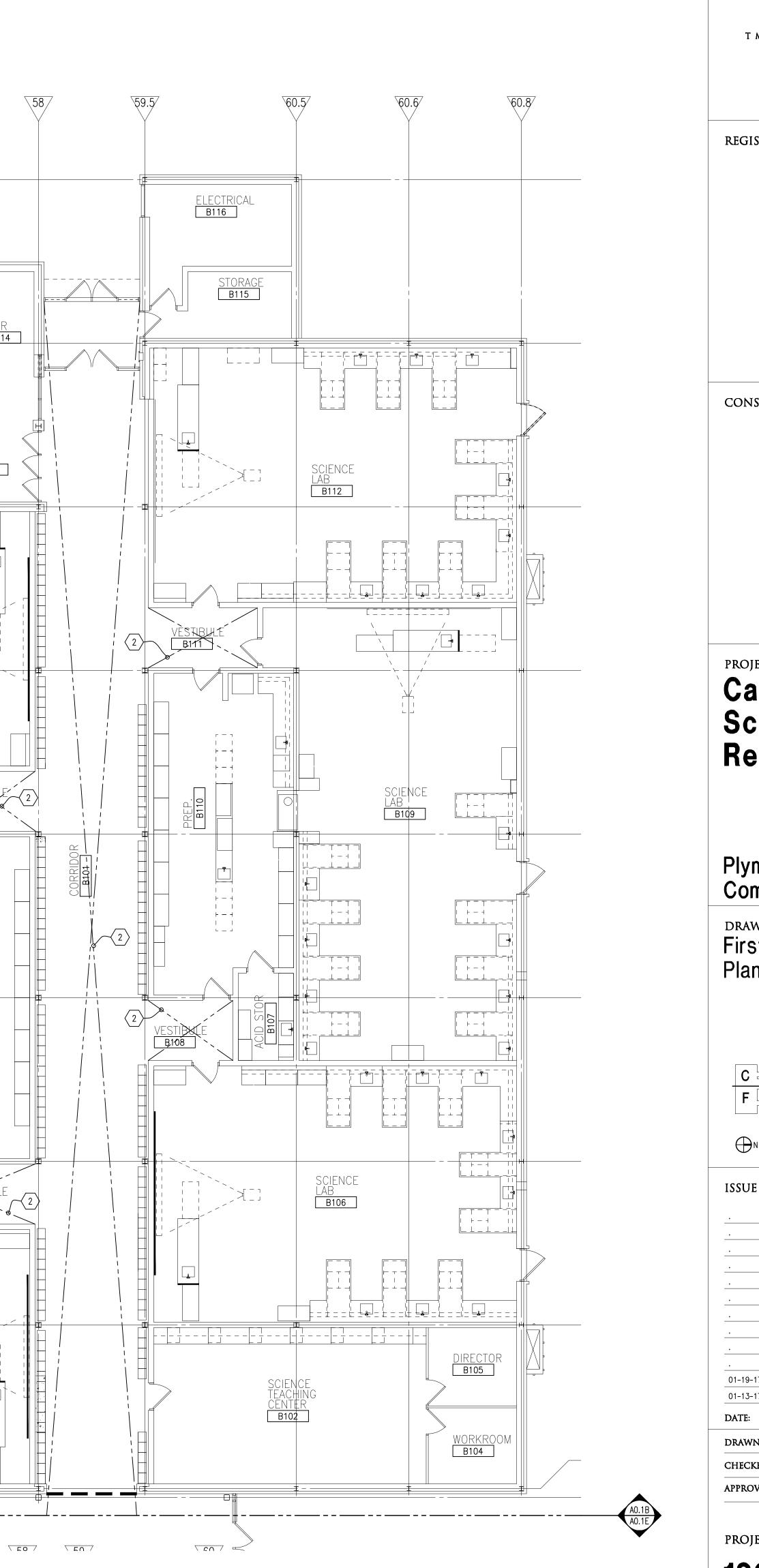


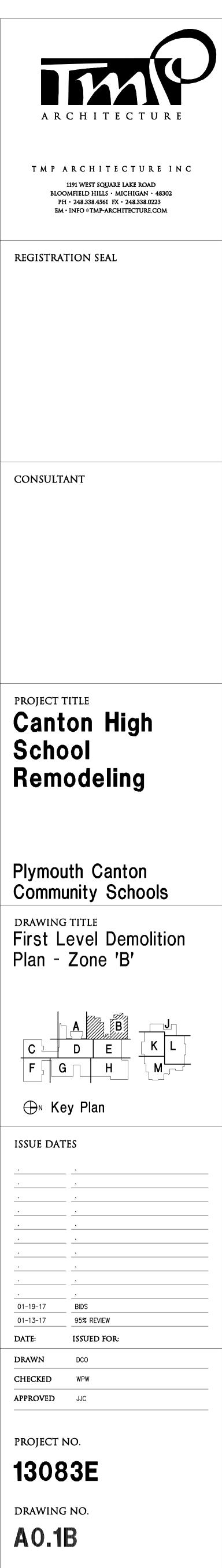
TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302 PH • 248.338.4561 FX • 248.338.0223 EM • INFO © TMP-ARCHITECTURE.COM

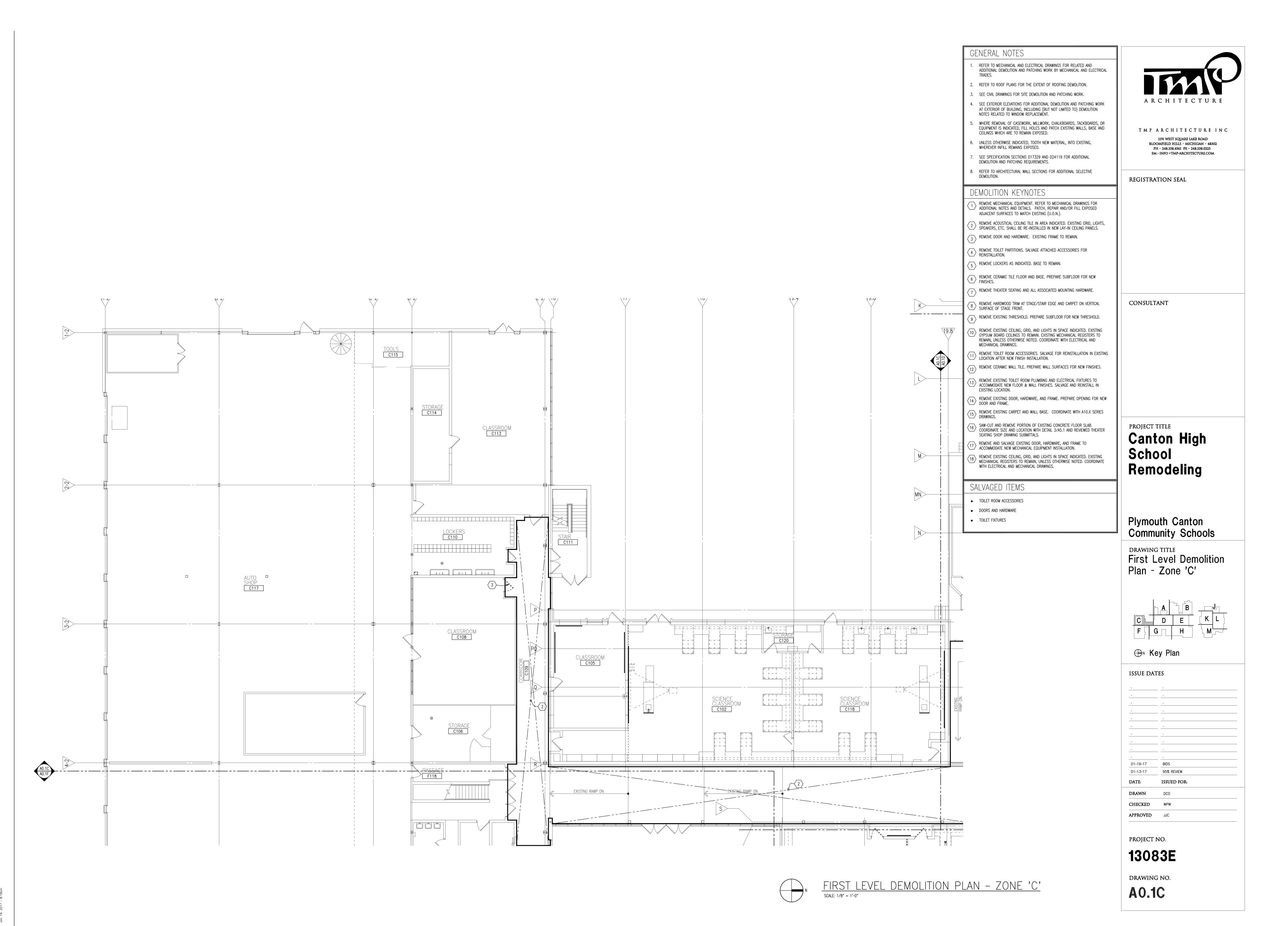


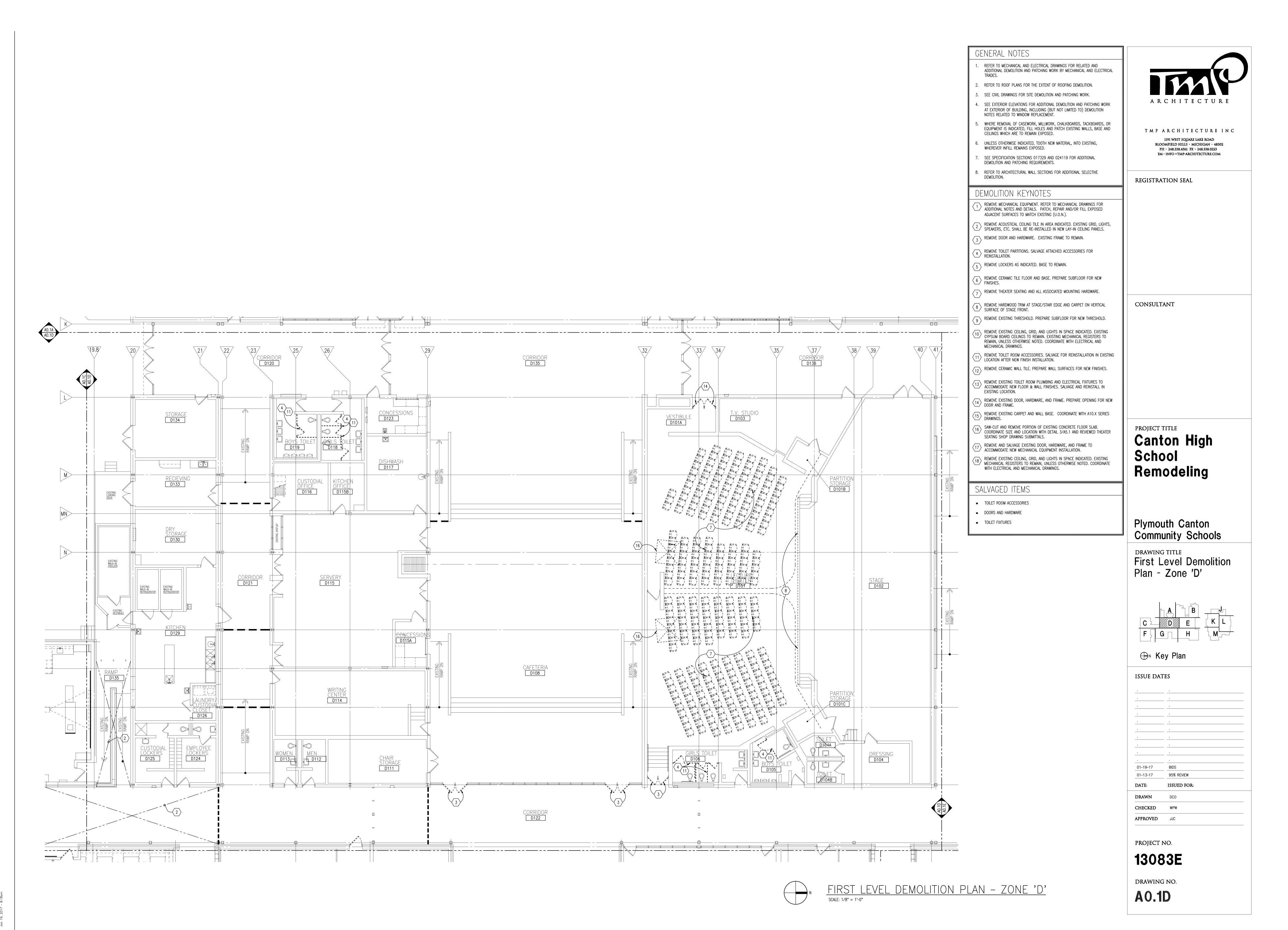
REFER TO OTHER DEMOLITION PLANS FOR GENERAL NOTES, DEMOLITION KEYNOTES & LIST OF SALVAGEABLE ITEMS

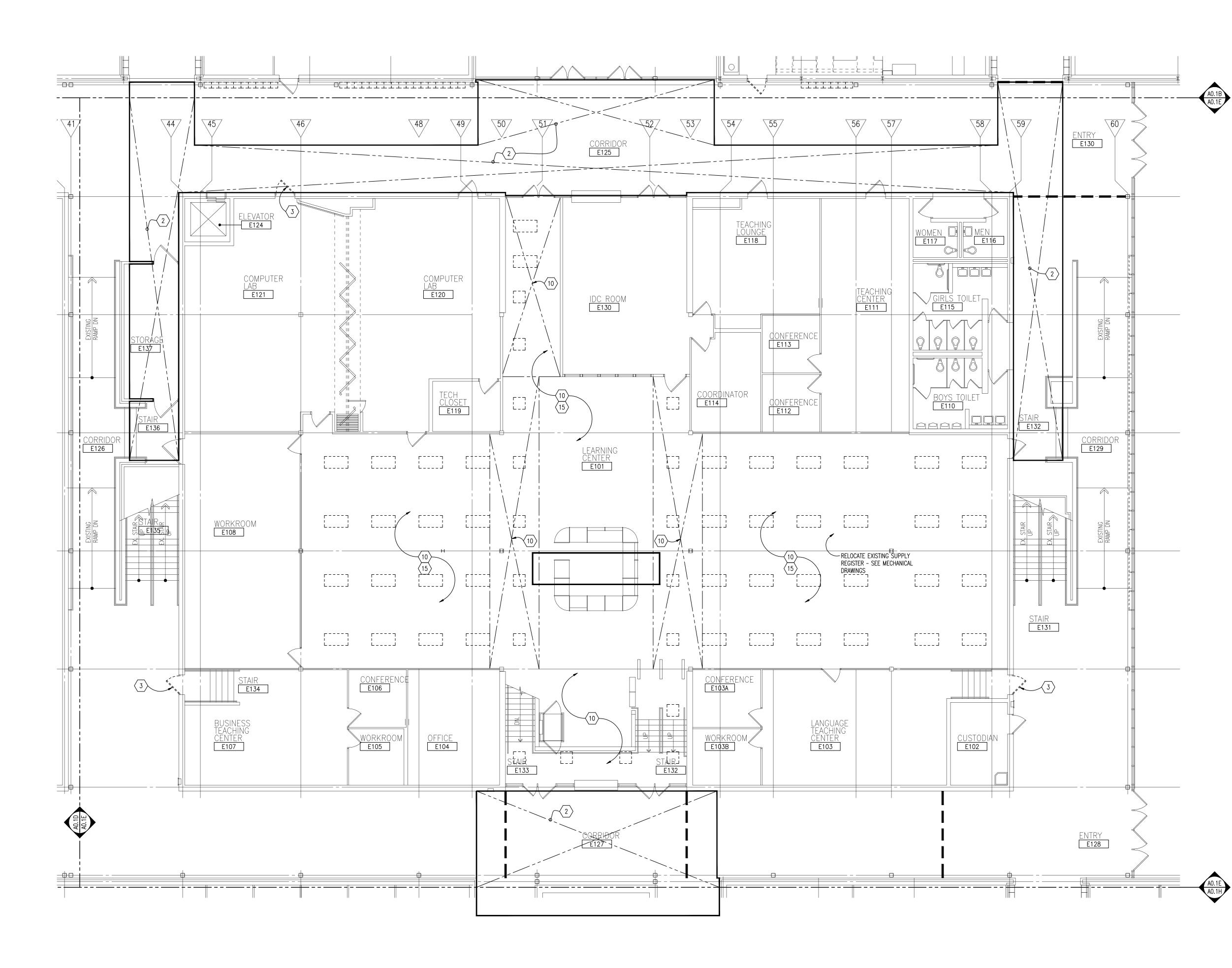










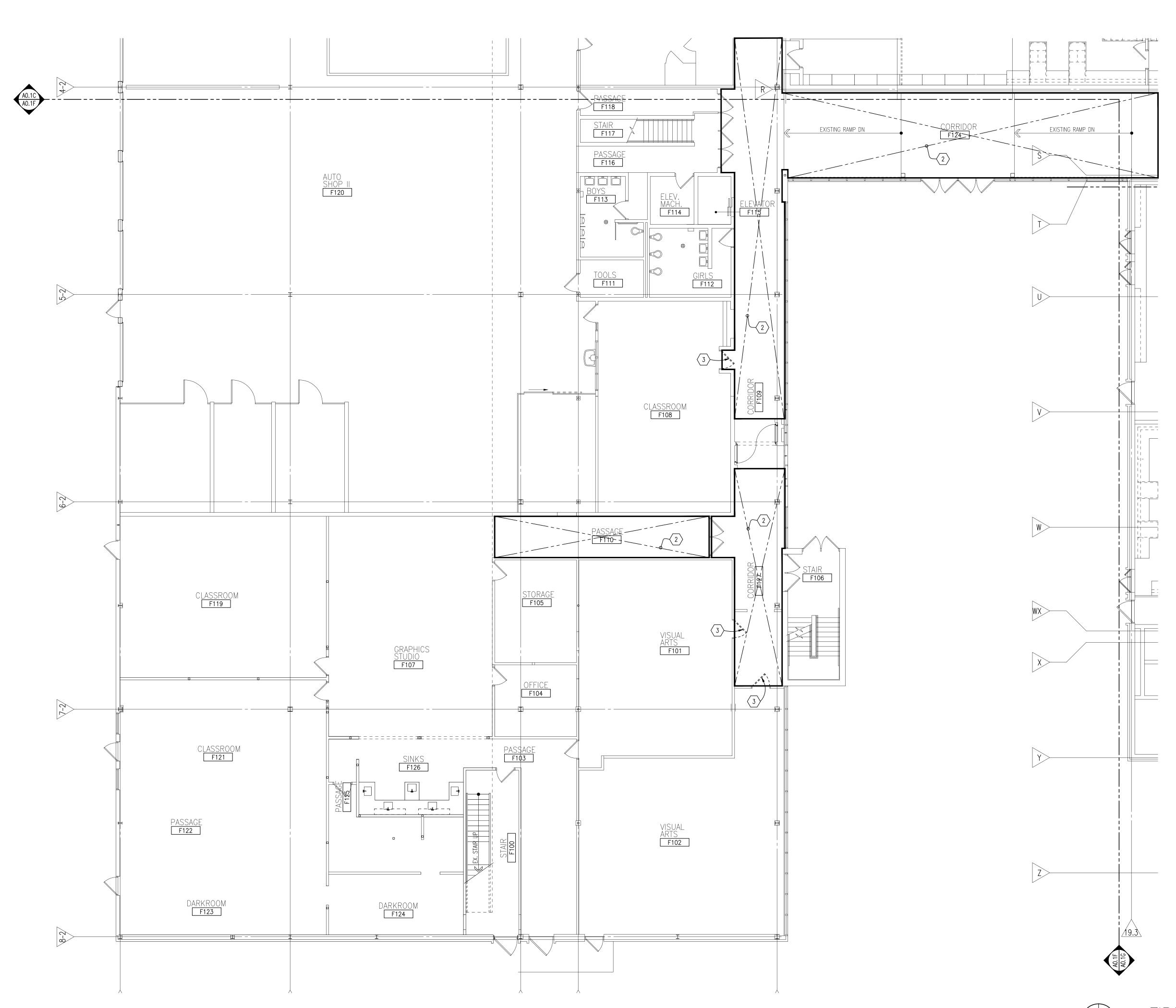


GENERAL NOTES	
1. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR RELATED AND ADDITIONAL DEMOLITION AND PATCHING WORK BY MECHANICAL AND ELECTRICAL TRADES.	
2. REFER TO ROOF PLANS FOR THE EXTENT OF ROOFING DEMOLITION.	
3. SEE CIVIL DRAWINGS FOR SITE DEMOLITION AND PATCHING WORK.	
 SEE EXTERIOR ELEVATIONS FOR ADDITIONAL DEMOLITION AND PATCHING WORK AT EXTERIOR OF BUILDING, INCLUDING (BUT NOT LIMITED TO) DEMOLITION NOTES RELATED TO WINDOW REPLACEMENT. 	A
5. WHERE REMOVAL OF CASEWORK, MILLWORK, CHALKBOARDS, TACKBOARDS, OR EQUIPMENT IS INDICATED, FILL HOLES AND PATCH EXISTING WALLS, BASE AND CEILINGS WHICH ARE TO REMAIN EXPOSED.	ТМ
6. UNLESS OTHERWISE INDICATED, TOOTH NEW MATERIAL, INTO EXISTING, WHEREVER INFILL REMAINS EXPOSED.	
7. SEE SPECIFICATION SECTIONS 017329 AND 024119 FOR ADDITIONAL DEMOLITION AND PATCHING REQUIREMENTS.	
8. REFER TO ARCHITECTURAL WALL SECTIONS FOR ADDITIONAL SELECTIVE DEMOLITION.	REGIST
DEMOLITION KEYNOTES	
1 REMOVE MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS. PATCH, REPAIR AND/OR FILL EXPOSED ADJACENT SURFACES TO MATCH EXISTING (U.O.N.).	
2 REMOVE ACOUSTICAL CEILING TILE IN AREA INDICATED. EXISTING GRID, LIGHTS, SPEAKERS, ETC. SHALL BE RE-INSTALLED IN NEW LAY-IN CEILING PANELS.	
3 REMOVE DOOR AND HARDWARE. EXISTING FRAME TO REMAIN.	
4 REMOVE TOILET PARTITIONS. SALVAGE ATTACHED ACCESSORIES FOR REINSTALLATION.	
5 REMOVE LOCKERS AS INDICATED. BASE TO REMAIN.	
6 REMOVE CERAMIC TILE FLOOR AND BASE. PREPARE SUBFLOOR FOR NEW FINISHES.	
7 REMOVE THEATER SEATING AND ALL ASSOCIATED MOUNTING HARDWARE.	
8 REMOVE HARDWOOD TRIM AT STAGE/STAIR EDGE AND CARPET ON VERTICAL SURFACE OF STAGE FRONT.	CONSU
9 REMOVE EXISTING THRESHOLD. PREPARE SUBFLOOR FOR NEW THRESHOLD.	
10 REMOVE EXISTING CEILING, GRID, AND LIGHTS IN SPACE INDICATED. EXISTING GYPSUM BOARD CEILINGS TO REMAIN. EXISTING MECHANICAL REGISTERS TO REMAIN, UNLESS OTHERWISE NOTED. COORDINATE WITH ELECTRICAL AND MECHANICAL DRAWINGS.	
(11) REMOVE TOILET ROOM ACCESSORIES. SALVAGE FOR REINSTALLATION IN EXISTING LOCATION AFTER NEW FINISH INSTALLATION.	
(12) REMOVE CERAMIC WALL TILE. PREPARE WALL SURFACES FOR NEW FINISHES.	
(13) REMOVE EXISTING TOILET ROOM PLUMBING AND ELECTRICAL FIXTURES TO ACCOMMODATE NEW FLOOR & WALL FINISHES. SALVAGE AND REINSTALL IN EXISTING LOCATION.	
(14) REMOVE EXISTING DOOR, HARDWARE, AND FRAME. PREPARE OPENING FOR NEW DOOR AND FRAME.	
$\overbrace{15}$ Remove existing carpet and wall base. Coordinate with a10.x series drawings.	
(16) SAW-CUT AND REMOVE PORTION OF EXISTING CONCRETE FLOOR SLAB. COORDINATE SIZE AND LOCATION WITH DETAIL 3/A5.1 AND REVIEWED THEATER SEATING SHOP DRAWING SUBMITTALS.	
REMOVE AND SALVAGE EXISTING DOOR, HARDWARE, AND FRAME TO ACCOMMODATE NEW MECHANICAL EQUIPMENT INSTALLATION.	Car
(18) REMOVE EXISTING CEILING, GRID, AND LIGHTS IN SPACE INDICATED. EXISTING MECHANICAL REGISTERS TO REMAIN, UNLESS OTHERWISE NOTED. COORDINATE WITH ELECTRICAL AND MECHANICAL DRAWINGS.	Sch Rer
SALVAGED ITEMS	
TOILET ROOM ACCESSORIES	
DOORS AND HARDWARE	
TOILET FIXTURES	Plym



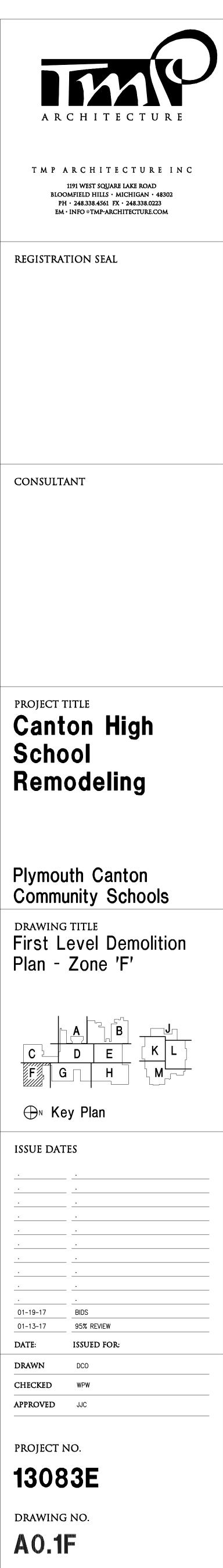


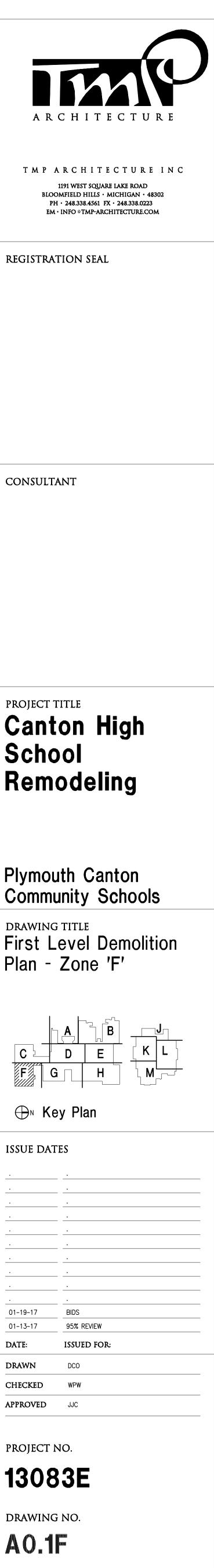


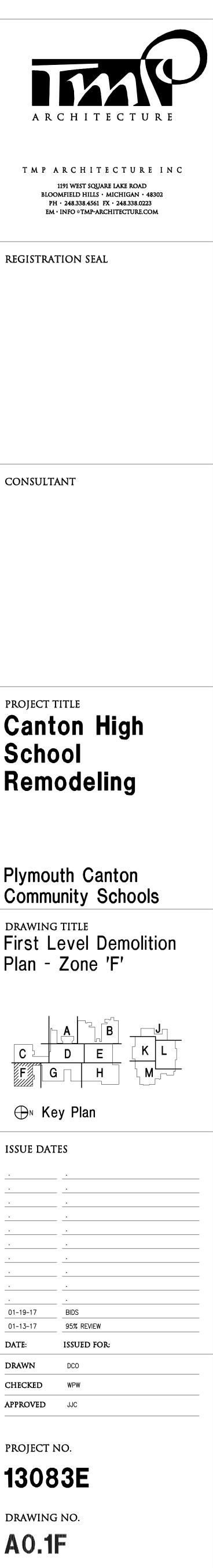


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3.	SEE CIVIL DRAWINGS FOR SITE DEMOLITION AND PATCHING WORK.	
4.	SEE EXTERIOR ELEVATIONS FOR ADDITIONAL DEMOLITION AND PATCHING WORK AT EXTERIOR OF BUILDING, INCLUDING (BUT NOT LIMITED TO) DEMOLITION NOTES RELATED TO WINDOW REPLACEMENT.	A
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6.	UNLESS OTHERWISE INDICATED, TOOTH NEW MATERIAL, INTO EXISTING, WHEREVER INFILL REMAINS EXPOSED.	
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$\langle 3 \rangle$	REMOVE DOOR AND HARDWARE. EXISTING FRAME TO REMAIN.	
$\langle 4 \rangle$	REMOVE TOILET PARTITIONS. SALVAGE ATTACHED ACCESSORIES FOR REINSTALLATION.	
$\langle 5 \rangle$	REMOVE LOCKERS AS INDICATED. BASE TO REMAIN.	
6	REMOVE CERAMIC TILE FLOOR AND BASE. PREPARE SUBFLOOR FOR NEW FINISHES.	
$\langle 7 \rangle$	REMOVE THEATER SEATING AND ALL ASSOCIATED MOUNTING HARDWARE.	
8	REMOVE HARDWOOD TRIM AT STAGE/STAIR EDGE AND CARPET ON VERTICAL SURFACE OF STAGE FRONT.	CONSU
9	REMOVE EXISTING THRESHOLD. PREPARE SUBFLOOR FOR NEW THRESHOLD.	
(10)	REMOVE EXISTING CEILING, GRID, AND LIGHTS IN SPACE INDICATED. EXISTING GYPSUM BOARD CEILINGS TO REMAIN. EXISTING MECHANICAL REGISTERS TO REMAIN, UNLESS OTHERWISE NOTED. COORDINATE WITH ELECTRICAL AND MECHANICAL DRAWINGS.	
$\langle 11 \rangle$	REMOVE TOILET ROOM ACCESSORIES. SALVAGE FOR REINSTALLATION IN EXISTING LOCATION AFTER NEW FINISH INSTALLATION.	
(12)	REMOVE CERAMIC WALL TILE. PREPARE WALL SURFACES FOR NEW FINISHES.	
(13)	REMOVE EXISTING TOILET ROOM PLUMBING AND ELECTRICAL FIXTURES TO ACCOMMODATE NEW FLOOR & WALL FINISHES. SALVAGE AND REINSTALL IN EXISTING LOCATION.	
(14)	REMOVE EXISTING DOOR, HARDWARE, AND FRAME. PREPARE OPENING FOR NEW DOOR AND FRAME.	
(15)	REMOVE EXISTING CARPET AND WALL BASE. COORDINATE WITH A10.X SERIES DRAWINGS.	
(16)	SAW-CUT AND REMOVE PORTION OF EXISTING CONCRETE FLOOR SLAB. COORDINATE SIZE AND LOCATION WITH DETAIL 3/A5.1 AND REVIEWED THEATER SEATING SHOP DRAWING SUBMITTALS.	PROJEC
(17)	REMOVE AND SALVAGE EXISTING DOOR, HARDWARE, AND FRAME TO ACCOMMODATE NEW MECHANICAL EQUIPMENT INSTALLATION.	
(18)	REMOVE EXISTING CEILING, GRID, AND LIGHTS IN SPACE INDICATED. EXISTING MECHANICAL REGISTERS TO REMAIN, UNLESS OTHERWISE NOTED. COORDINATE WITH ELECTRICAL AND MECHANICAL DRAWINGS.	Sch Rer
SA	LVAGED ITEMS	
•	TOILET ROOM ACCESSORIES	
٠	DOORS AND HARDWARE	

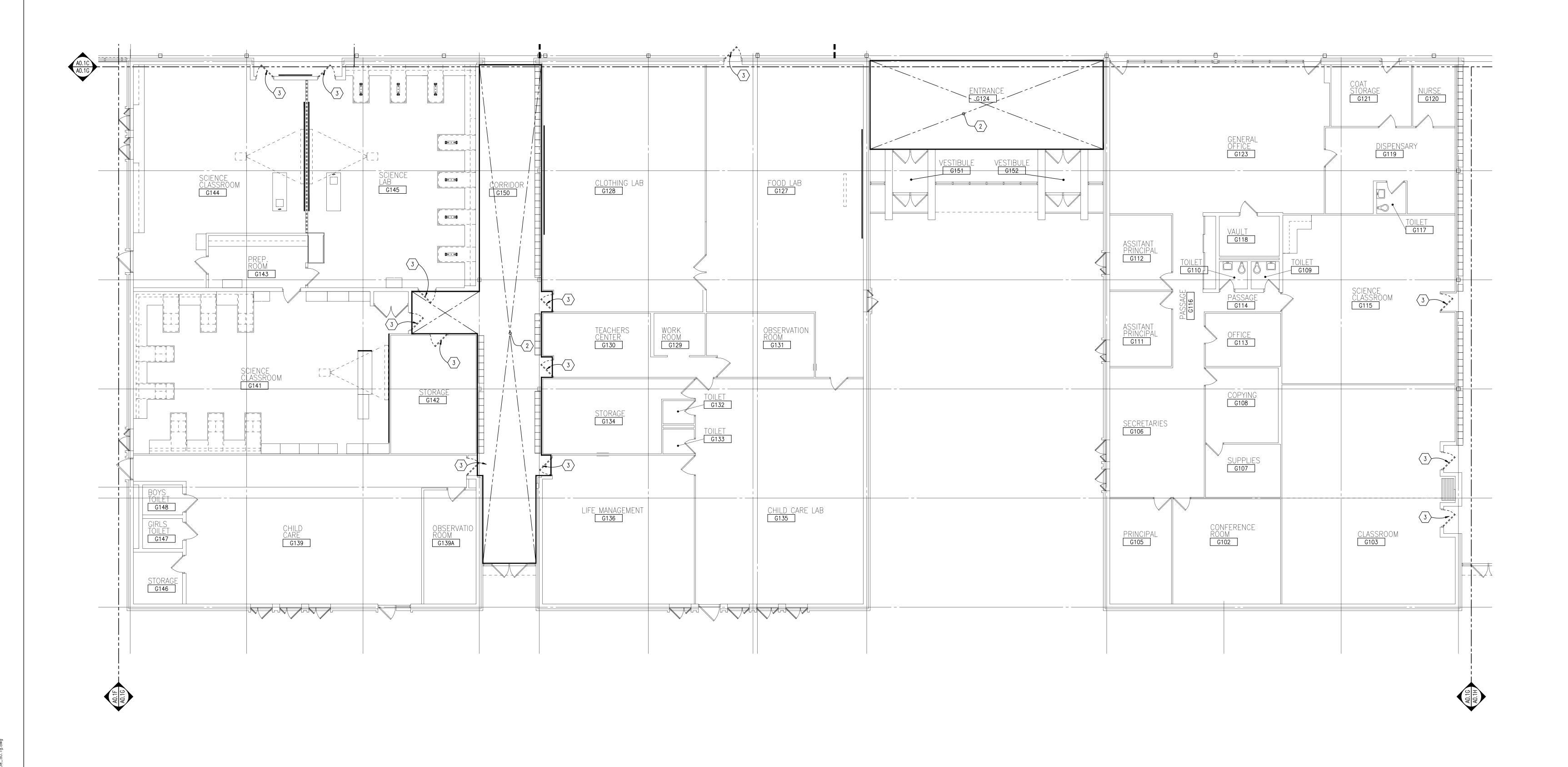
- TOILET FIXTURES



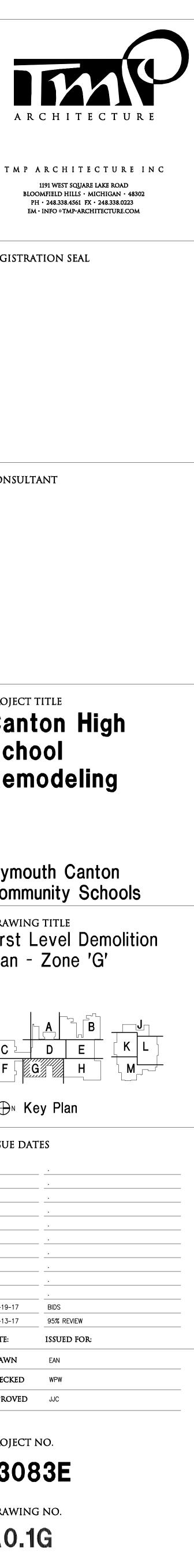


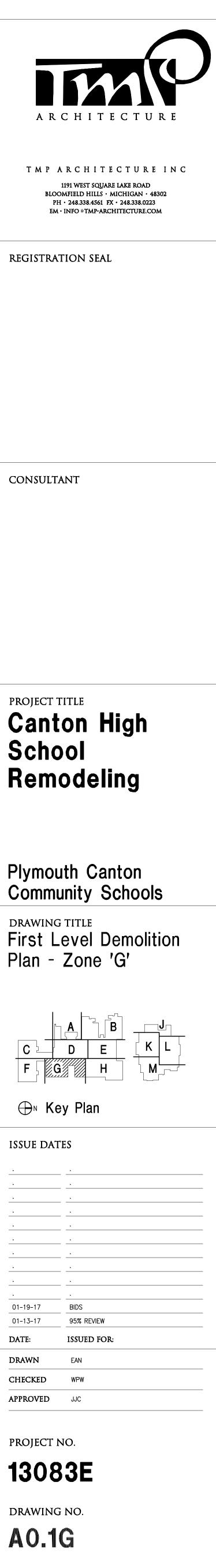


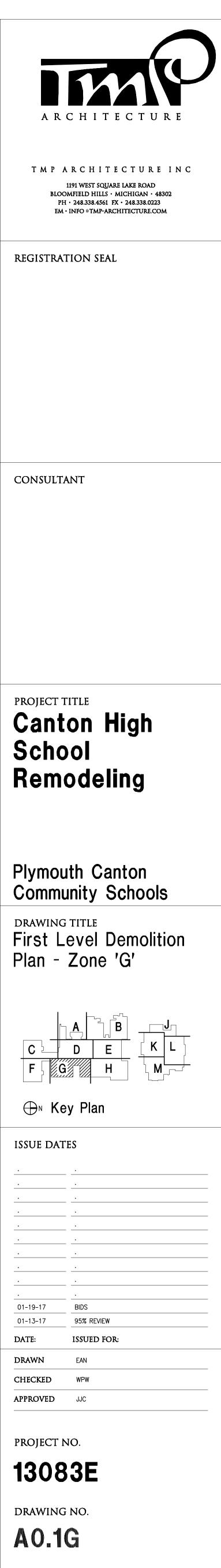
FIRST LEVEL DEMOLITION PLAN - ZONE 'F'



REFER TO OTHER DEMOLITION PLANS FOR GENERAL NOTES, DEMOLITION KEYNOTES & LIST OF SALVAGEABLE ITEMS



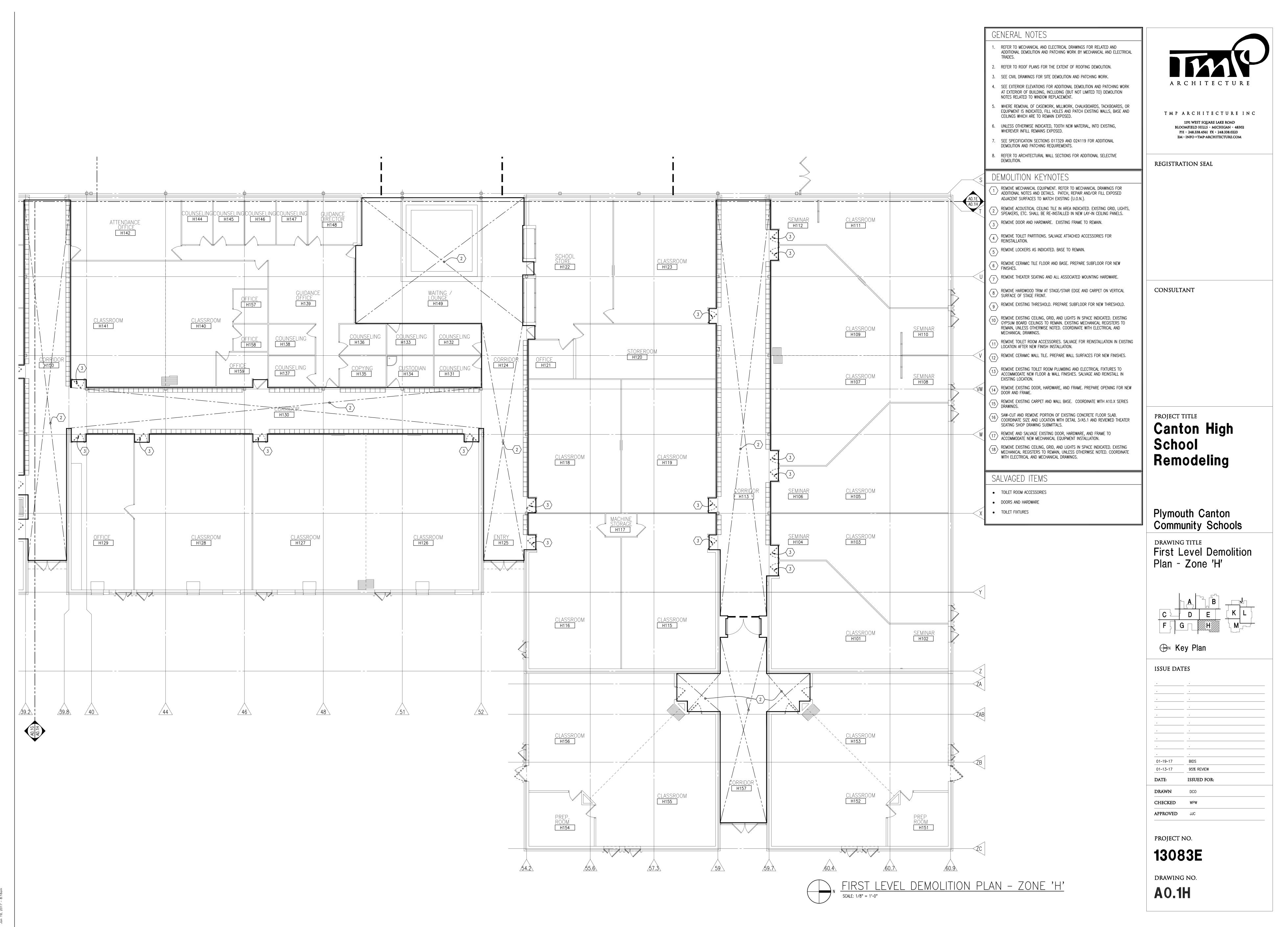


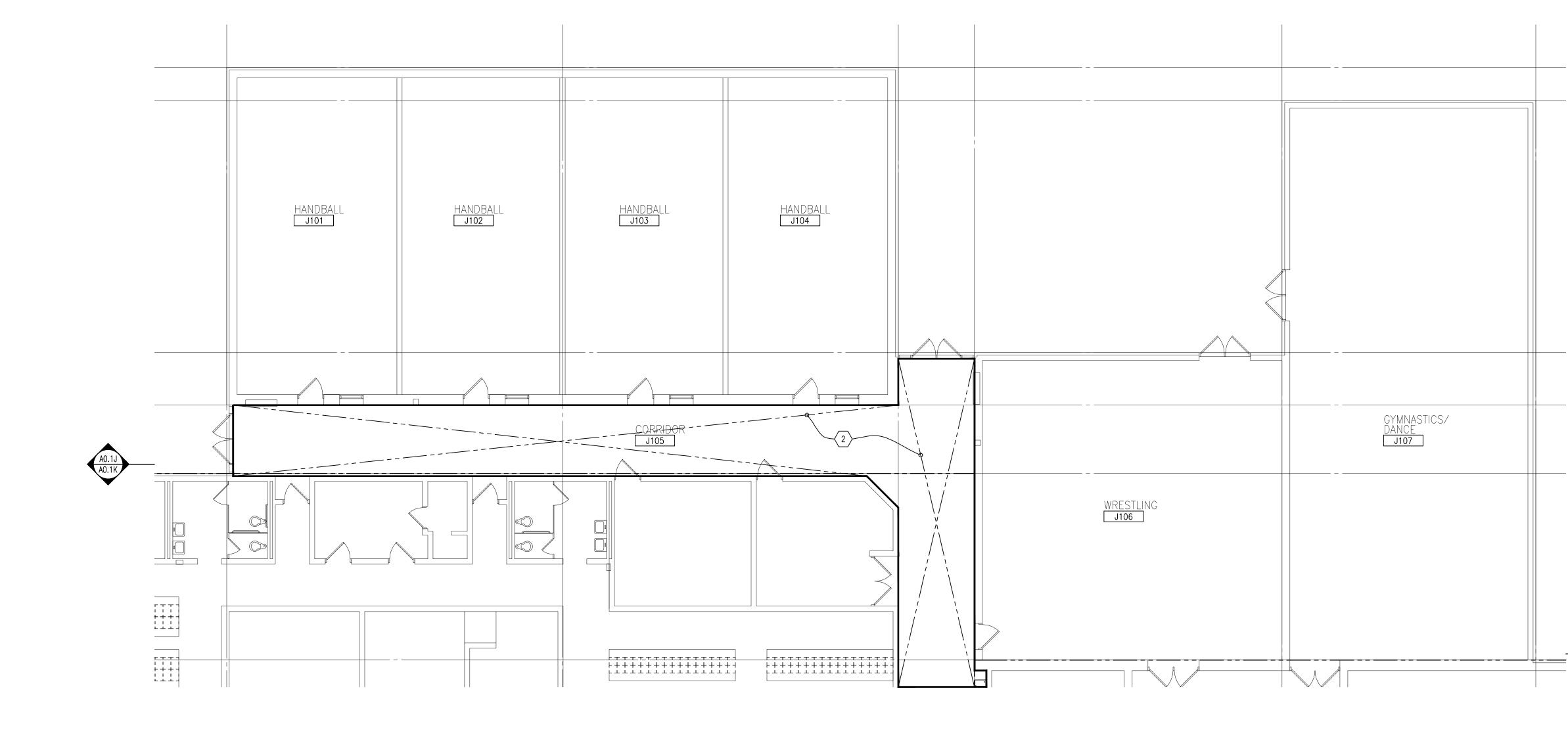


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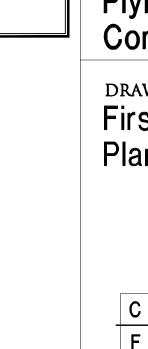
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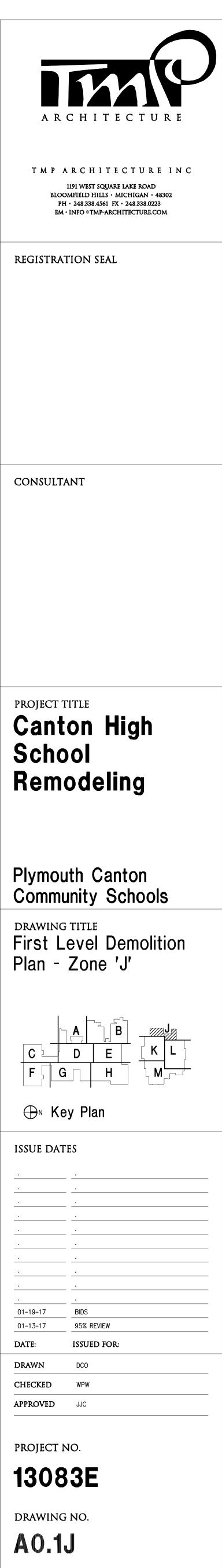
FIRST LEVEL DEMOLITION FLOOR PLAN - ZONE 'G'





GENERAL NOTES	
1. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR RELATED AND ADDITIONAL DEMOLITION AND PATCHING WORK BY MECHANICAL AND ELECTRICAL TRADES.	
2. REFER TO ROOF PLANS FOR THE EXTENT OF ROOFING DEMOLITION.	
3. SEE CIVIL DRAWINGS FOR SITE DEMOLITION AND PATCHING WORK.	
 SEE EXTERIOR ELEVATIONS FOR ADDITIONAL DEMOLITION AND PATCHING WORK AT EXTERIOR OF BUILDING, INCLUDING (BUT NOT LIMITED TO) DEMOLITION NOTES RELATED TO WINDOW REPLACEMENT. 	A
5. WHERE REMOVAL OF CASEWORK, MILLWORK, CHALKBOARDS, TACKBOARDS, OR EQUIPMENT IS INDICATED, FILL HOLES AND PATCH EXISTING WALLS, BASE AND CEILINGS WHICH ARE TO REMAIN EXPOSED.	ТМІ
6. UNLESS OTHERWISE INDICATED, TOOTH NEW MATERIAL, INTO EXISTING, WHEREVER INFILL REMAINS EXPOSED.	B
7. SEE SPECIFICATION SECTIONS 017329 AND 024119 FOR ADDITIONAL DEMOLITION AND PATCHING REQUIREMENTS.	
8. REFER TO ARCHITECTURAL WALL SECTIONS FOR ADDITIONAL SELECTIVE DEMOLITION.	REGISTI
DEMOLITION KEYNOTES	
REMOVE MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS. PATCH, REPAIR AND/OR FILL EXPOSED ADJACENT SURFACES TO MATCH EXISTING (U.O.N.).	
2 REMOVE ACOUSTICAL CEILING TILE IN AREA INDICATED. EXISTING GRID, LIGHTS, SPEAKERS, ETC. SHALL BE RE-INSTALLED IN NEW LAY-IN CEILING PANELS.	
3 REMOVE DOOR AND HARDWARE. EXISTING FRAME TO REMAIN.	
4 REMOVE TOILET PARTITIONS. SALVAGE ATTACHED ACCESSORIES FOR REINSTALLATION.	
5 Remove lockers as indicated. Base to remain.	
6 Remove ceramic tile floor and base. Prepare subfloor for New Finishes.	
$\langle 7 \rangle$ REMOVE THEATER SEATING AND ALL ASSOCIATED MOUNTING HARDWARE.	
8 REMOVE HARDWOOD TRIM AT STAGE/STAIR EDGE AND CARPET ON VERTICAL SURFACE OF STAGE FRONT.	CONSU
9 REMOVE EXISTING THRESHOLD. PREPARE SUBFLOOR FOR NEW THRESHOLD.	
10 REMOVE EXISTING CEILING, GRID, AND LIGHTS IN SPACE INDICATED. EXISTING GYPSUM BOARD CEILINGS TO REMAIN. EXISTING MECHANICAL REGISTERS TO REMAIN, UNLESS OTHERWISE NOTED. COORDINATE WITH ELECTRICAL AND MECHANICAL DRAWINGS.	
11 REMOVE TOILET ROOM ACCESSORIES. SALVAGE FOR REINSTALLATION IN EXISTING LOCATION AFTER NEW FINISH INSTALLATION.	
$\langle 12 \rangle$ REMOVE CERAMIC WALL TILE. PREPARE WALL SURFACES FOR NEW FINISHES.	
(13) REMOVE EXISTING TOILET ROOM PLUMBING AND ELECTRICAL FIXTURES TO ACCOMMODATE NEW FLOOR & WALL FINISHES. SALVAGE AND REINSTALL IN EXISTING LOCATION.	
$\stackrel{(14)}{\frown}$ REMOVE EXISTING DOOR, HARDWARE, AND FRAME. PREPARE OPENING FOR NEW DOOR AND FRAME.	
15 REMOVE EXISTING CARPET AND WALL BASE. COORDINATE WITH A10.X SERIES DRAWINGS.	
(16) SAW-CUT AND REMOVE PORTION OF EXISTING CONCRETE FLOOR SLAB. COORDINATE SIZE AND LOCATION WITH DETAIL 3/A5.1 AND REVIEWED THEATER SEATING SHOP DRAWING SUBMITTALS.	
17 REMOVE AND SALVAGE EXISTING DOOR, HARDWARE, AND FRAME TO ACCOMMODATE NEW MECHANICAL EQUIPMENT INSTALLATION.	Can
(18) REMOVE EXISTING CEILING, GRID, AND LIGHTS IN SPACE INDICATED. EXISTING MECHANICAL REGISTERS TO REMAIN, UNLESS OTHERWISE NOTED. COORDINATE WITH ELECTRICAL AND MECHANICAL DRAWINGS.	Sch Ren
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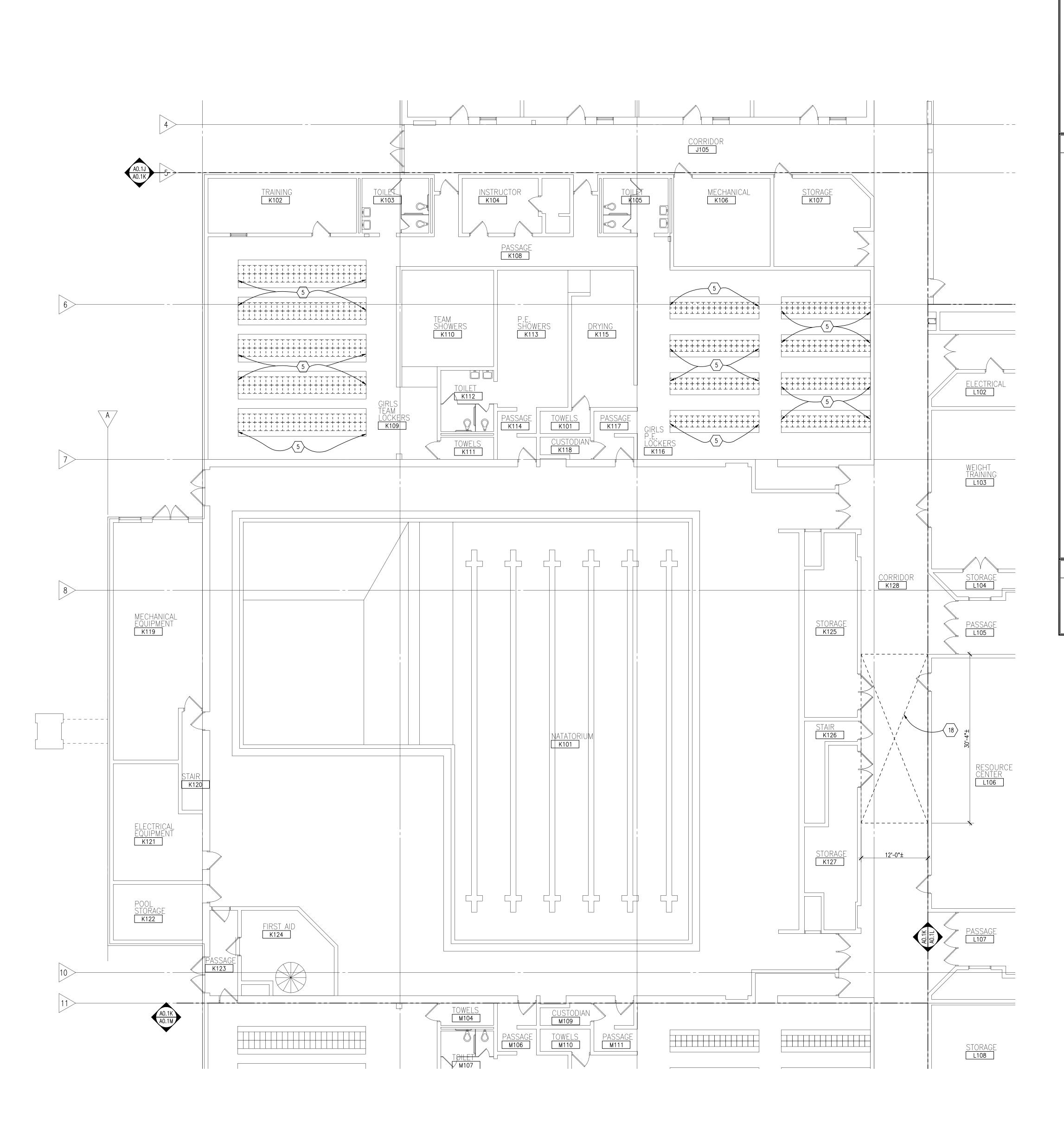




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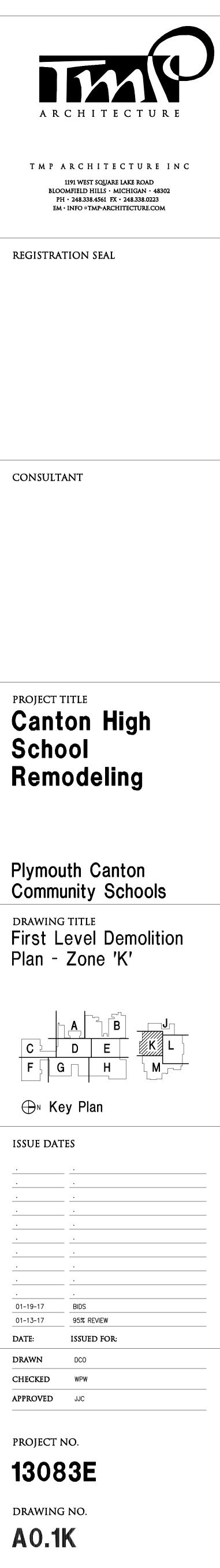
GE	INERAL NOTES	
1.	REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR RELATED AND ADDITIONAL DEMOLITION AND PATCHING WORK BY MECHANICAL AND ELECTRICAL TRADES.	
2.	REFER TO ROOF PLANS FOR THE EXTENT OF ROOFING DEMOLITION.	
3. 4.	SEE CIVIL DRAWINGS FOR SITE DEMOLITION AND PATCHING WORK. SEE EXTERIOR ELEVATIONS FOR ADDITIONAL DEMOLITION AND PATCHING WORK AT EXTERIOR OF BUILDING, INCLUDING (BUT NOT LIMITED TO) DEMOLITION	A F
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6.	UNLESS OTHERWISE INDICATED, TOOTH NEW MATERIAL, INTO EXISTING, WHEREVER INFILL REMAINS EXPOSED.	BL
7.	SEE SPECIFICATION SECTIONS 017329 AND 024119 FOR ADDITIONAL DEMOLITION AND PATCHING REQUIREMENTS.	E
8.	REFER TO ARCHITECTURAL WALL SECTIONS FOR ADDITIONAL SELECTIVE DEMOLITION.	REGISTR
DE	MOLITION KEYNOTES	
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$\langle 2 \rangle$	REMOVE ACOUSTICAL CEILING TILE IN AREA INDICATED. EXISTING GRID, LIGHTS, SPEAKERS, ETC. SHALL BE RE-INSTALLED IN NEW LAY-IN CEILING PANELS. REMOVE DOOR AND HARDWARE. EXISTING FRAME TO REMAIN.	
$\langle 3 \rangle$	REMOVE TOILET PARTITIONS. SALVAGE ATTACHED ACCESSORIES FOR	
$\langle 4 \rangle$	REINSTALLATION. REMOVE LOCKERS AS INDICATED. BASE TO REMAIN.	
$\left< \frac{5}{2} \right>$	REMOVE CERAMIC TILE FLOOR AND BASE. PREPARE SUBFLOOR FOR NEW	
$\left\langle \begin{array}{c} 6 \end{array} \right\rangle$	FINISHES. REMOVE THEATER SEATING AND ALL ASSOCIATED MOUNTING HARDWARE.	
\langle / \rangle	REMOVE HARDWOOD TRIM AT STAGE/STAIR EDGE AND CARPET ON VERTICAL	CONSUL
$\left< \frac{8}{8} \right>$	SURFACE OF STAGE FRONT. REMOVE EXISTING THRESHOLD. PREPARE SUBFLOOR FOR NEW THRESHOLD.	
$\langle 9 \rangle$ $\langle 10 \rangle$	REMOVE EXISTING CEILING, GRID, AND LIGHTS IN SPACE INDICATED. EXISTING GYPSUM BOARD CEILINGS TO REMAIN. EXISTING MECHANICAL REGISTERS TO REMAIN, UNLESS OTHERWISE NOTED. COORDINATE WITH ELECTRICAL AND	
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$\langle 14 \rangle$	REMOVE EXISTING DOOR, HARDWARE, AND FRAME. PREPARE OPENING FOR NEW DOOR AND FRAME.	
(15)	REMOVE EXISTING CARPET AND WALL BASE. COORDINATE WITH A10.X SERIES DRAWINGS.	
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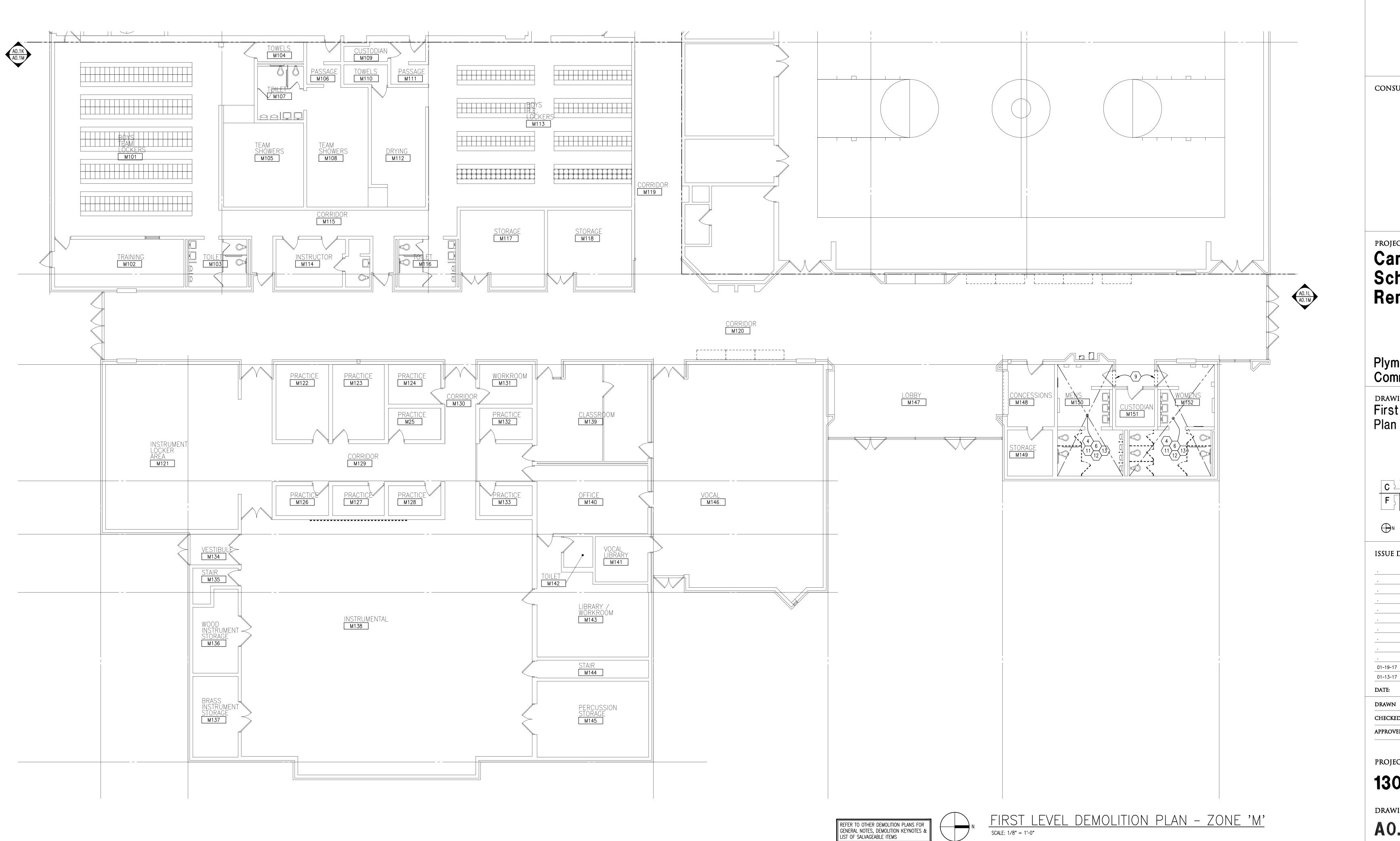


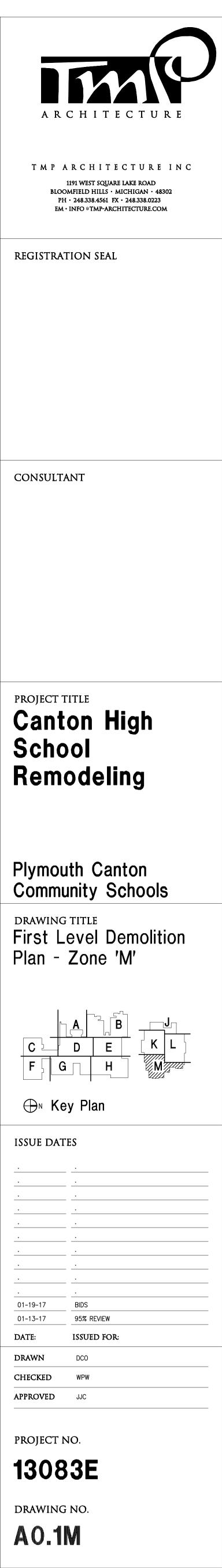
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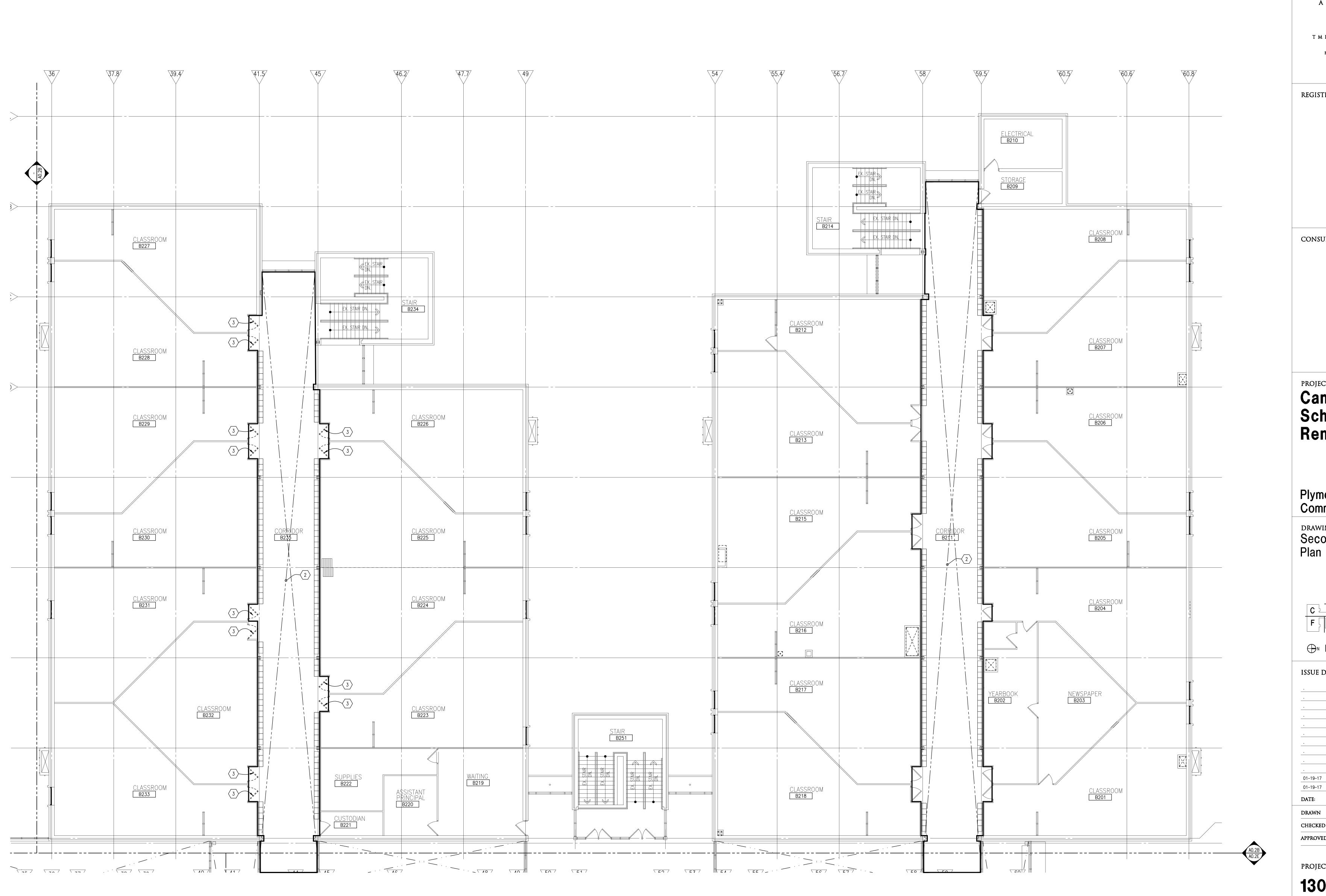
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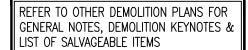


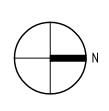


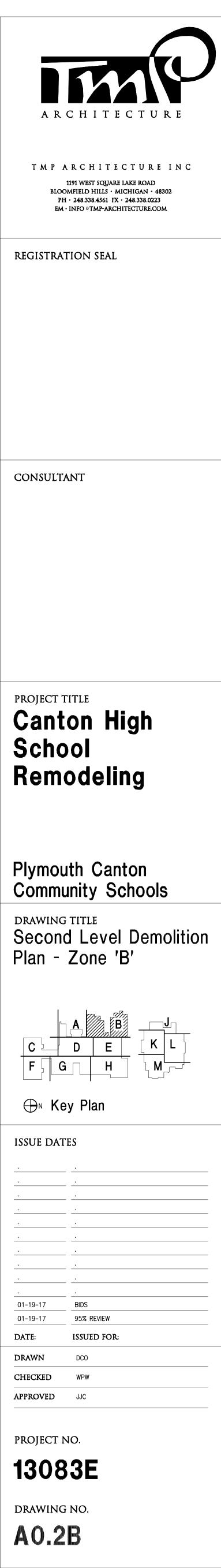


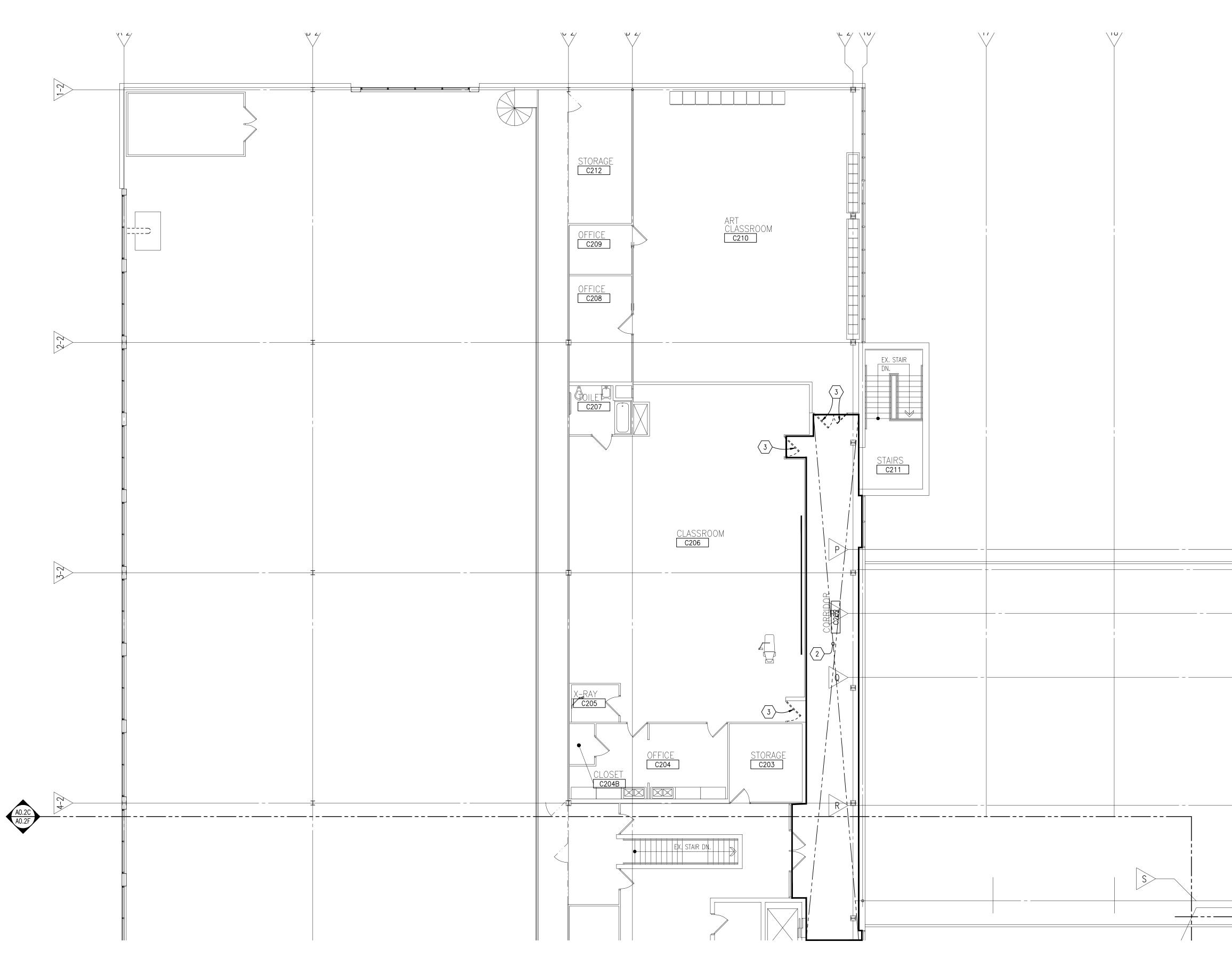


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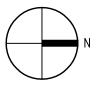


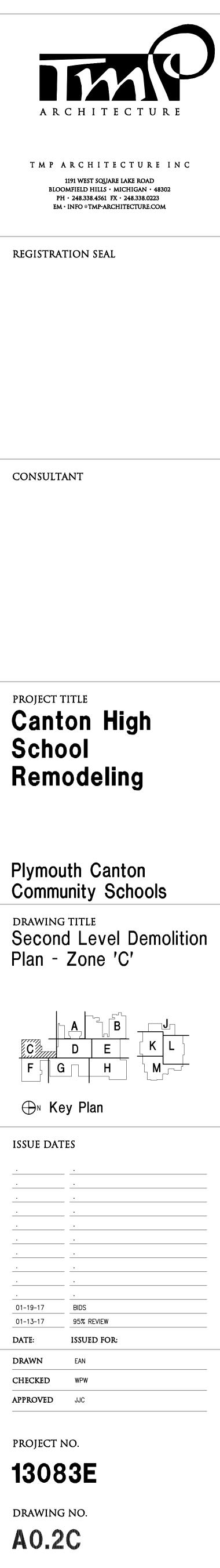


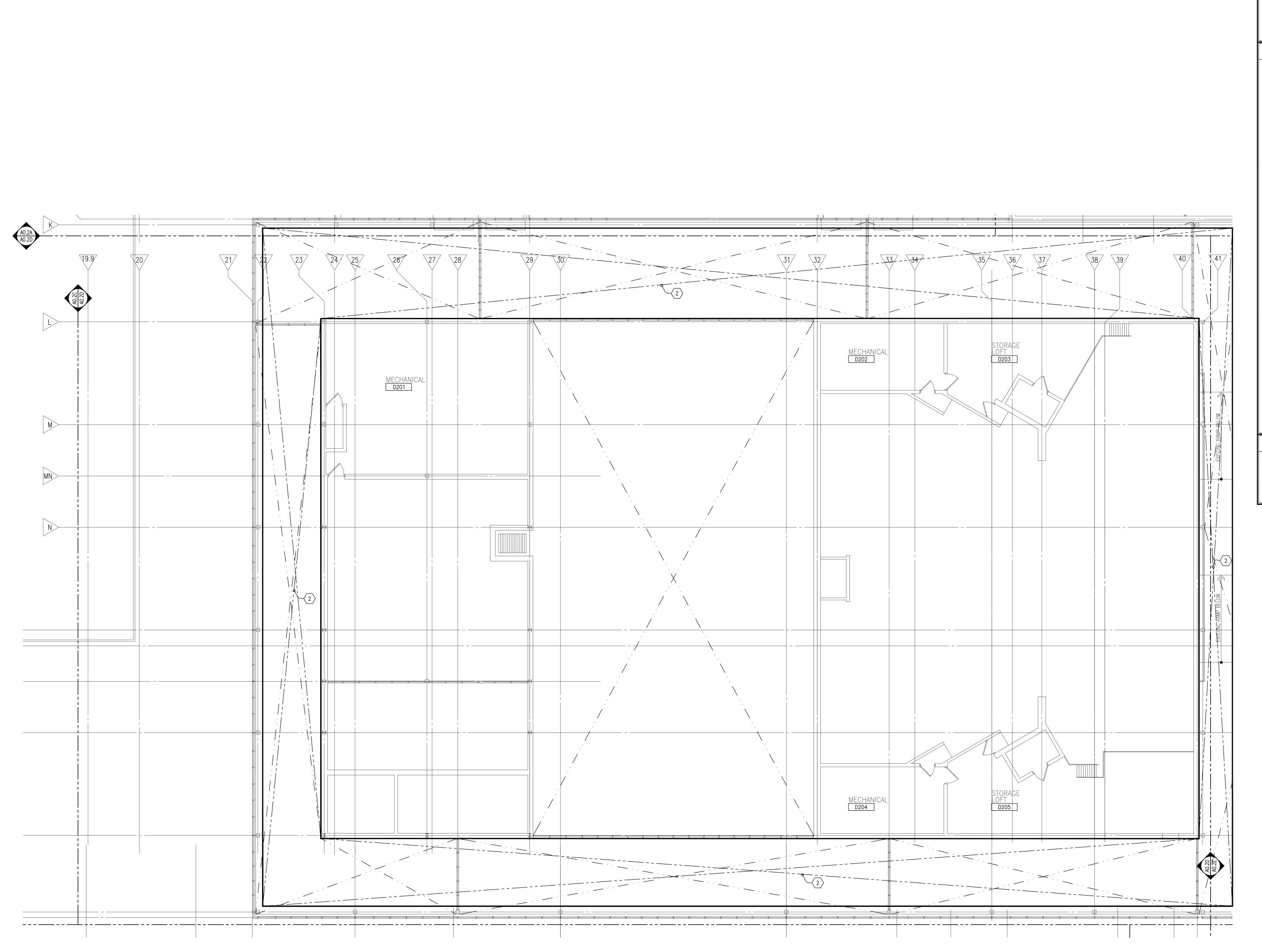




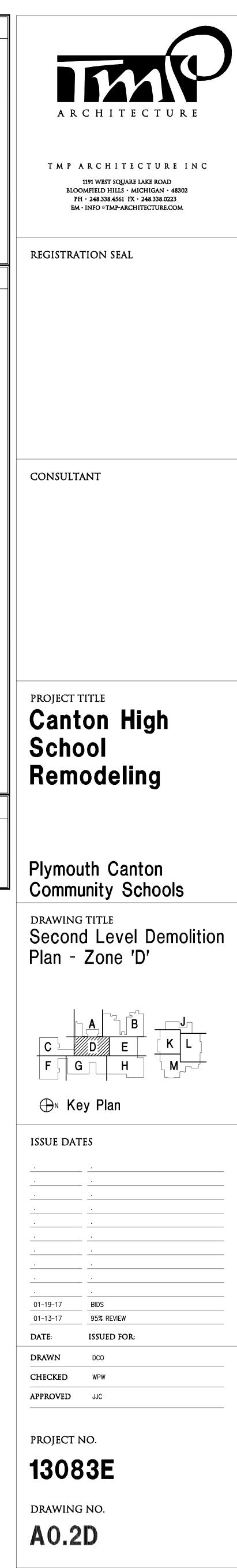
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		REMOVE EXISTING CEILING, GRID, AND LIGHTS IN SPACE INDICATED. EXISTING MECHANICAL REGISTERS TO REMAIN, UNLESS OTHERWISE NOTED. COORDINATE WITH ELECTRICAL AND MECHANICAL DRAWINGS.	Re
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		13 REMOVE EXISTING TOTLET ROOM PLOMBING AND ELECTRICAL FIXTURES TO ACCOMMODATE NEW FLOOR & WALL FINISHES. SALVAGE AND REINSTALL IN EXISTING LOCATION. 14 REMOVE EXISTING DOOR, HARDWARE, AND FRAME. PREPARE OPENING FOR NEW DOOR AND FRAME.	
	A0.2C	LOCATION AFTER NEW FINISH INSTALLATION.	
	7	19.9 GYPSUM BOARD CEILINGS TO REMAIN. EXISTING MECHANICAL REGISTERS TO REMAIN, UNLESS OTHERWISE NOTED. COORDINATE WITH ELECTRICAL AND MECHANICAL DRAWINGS.	
4 5 . 7		Image: Surface of stage front. Image: Surface of stage front.	
\1 7 ++/		REMOVE THEATER SEATING AND ALL ASSOCIATED MOUNTING HARDWARE. REMOVE HARDWOOD TRIM AT STAGE/STAIR EDGE AND CARPET ON VERTICAL	CON
		 REMOVE LOCKERS AS INDICATED. BASE TO REMAIN. REMOVE CERAMIC TILE FLOOR AND BASE. PREPARE SUBFLOOR FOR NEW FINISHES. 	
		 REMOVE DOOR AND HARDWARE. EXISTING FRAME TO REMAIN. REMOVE TOILET PARTITIONS. SALVAGE ATTACHED ACCESSORIES FOR REINSTALLATION. 	
		ADJACENT SURFACES TO MATCH EXISTING (U.O.N.). (2) REMOVE ACOUSTICAL CEILING TILE IN AREA INDICATED. EXISTING GRID, LIGHTS, SPEAKERS, ETC. SHALL BE RE-INSTALLED IN NEW LAY-IN CEILING PANELS.	
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		8. REFER TO ARCHITECTURAL WALL SECTIONS FOR ADDITIONAL SELECTIVE DEMOLITION.	REG
		 UNLESS OTHERWISE INDICATED, TOOTH NEW MATERIAL, INTO EXISTING, WHEREVER INFILL REMAINS EXPOSED. SEE SPECIFICATION SECTIONS 017329 AND 024119 FOR ADDITIONAL DEMOLITION AND PATCHING REQUIREMENTS. 	
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		 SEE EXTERIOR ELEVATIONS FOR ADDITIONAL DEMOLITION AND PATCHING WORK AT EXTERIOR OF BUILDING, INCLUDING (BUT NOT LIMITED TO) DEMOLITION NOTES RELATED TO WINDOW REPLACEMENT. 	
		 2. REFER TO ROOF PLANS FOR THE EXTENT OF ROOFING DEMOLITION. 3. SEE CIVIL DRAWINGS FOR SITE DEMOLITION AND PATCHING WORK. 	
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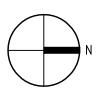


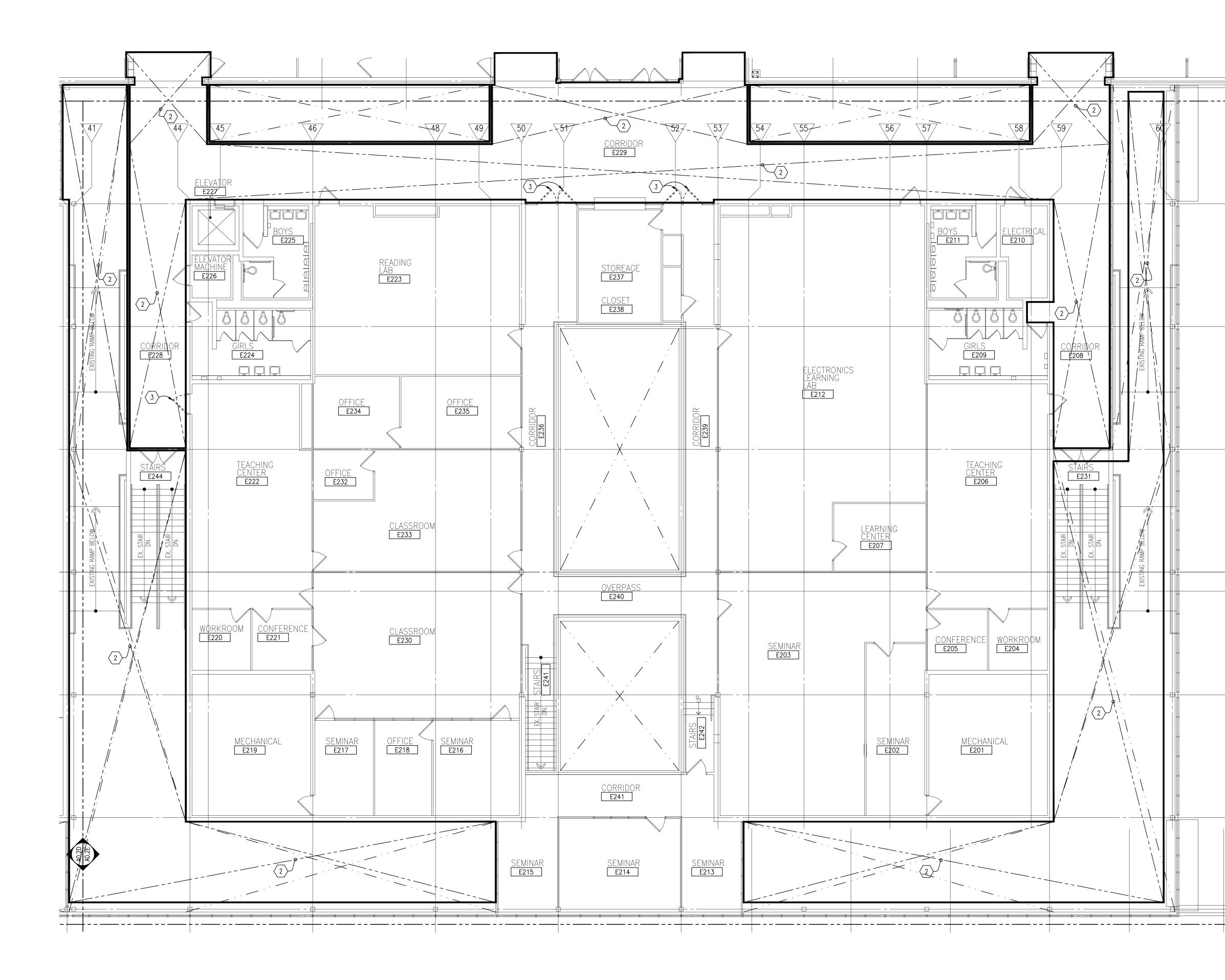




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(7) REM	MOVE THEATER SEATING AND ALL ASSOCIATED MOUNTING HARDWARE.	
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(9) REM	MOVE EXISTING THRESHOLD. PREPARE SUBFLOOR FOR NEW THRESHOLD.	
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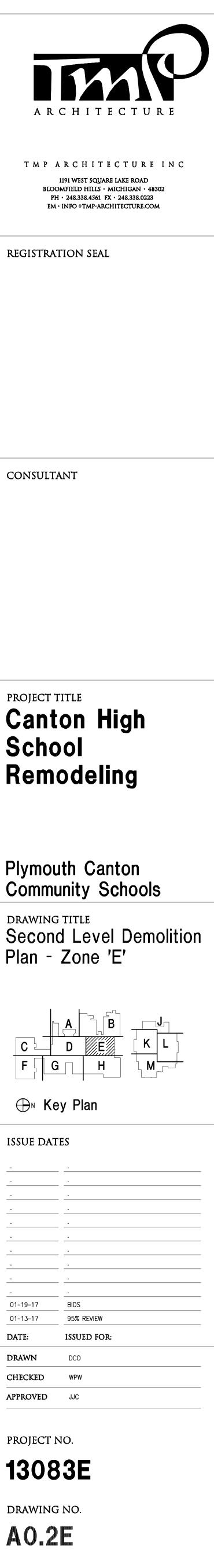






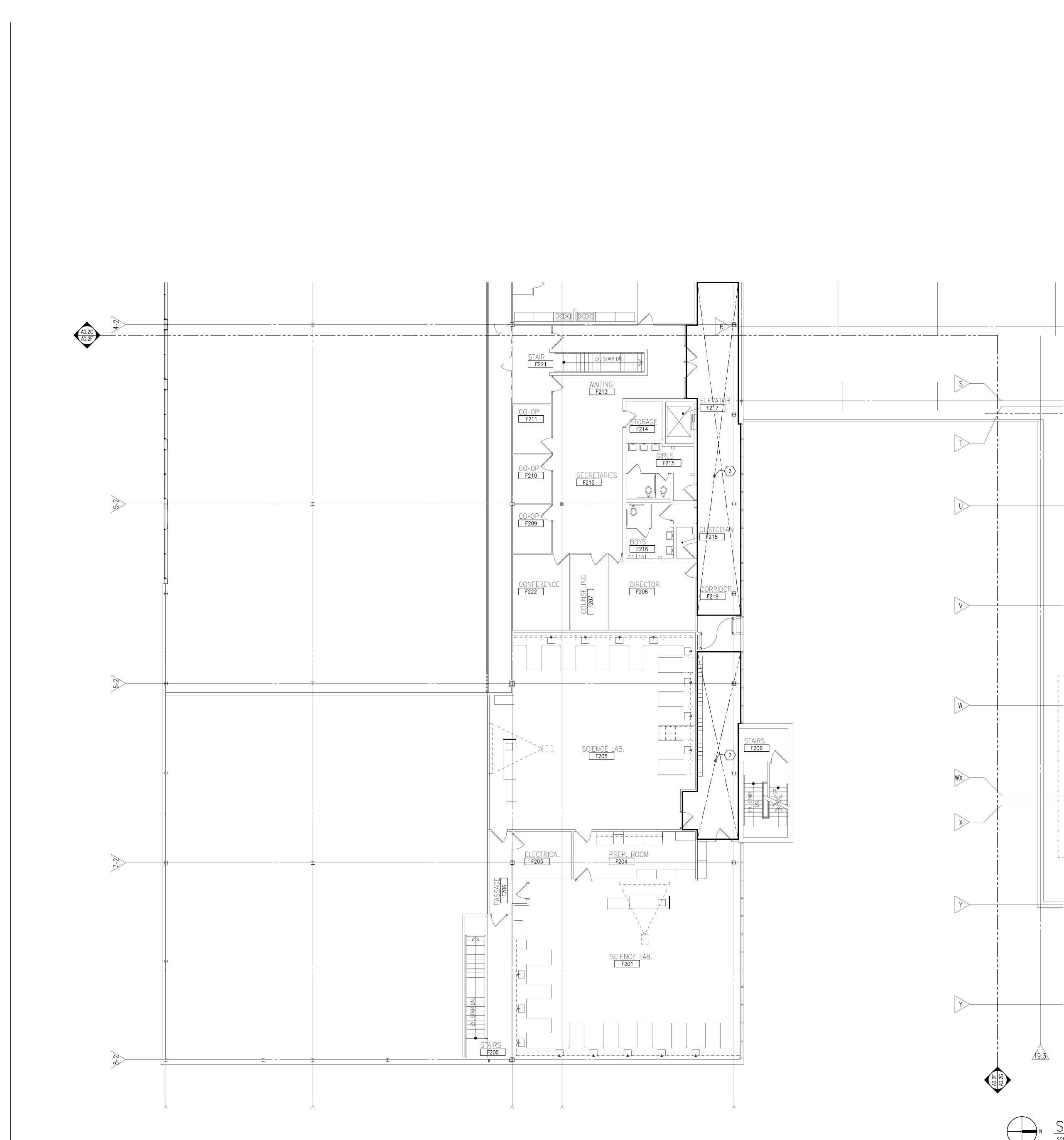
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2 REMOVE ACOUSTICAL CEILING TILE IN AREA INDICATED. EXISTING GRID, LIGHTS, SPEAKERS, ETC. SHALL BE RE-INSTALLED IN NEW LAY-IN CEILING PANELS.	
3 REMOVE DOOR AND HARDWARE. EXISTING FRAME TO REMAIN.	
4 REMOVE TOILET PARTITIONS. SALVAGE ATTACHED ACCESSORIES FOR REINSTALLATION.	
5 REMOVE LOCKERS AS INDICATED. BASE TO REMAIN.	
6 REMOVE CERAMIC TILE FLOOR AND BASE. PREPARE SUBFLOOR FOR NEW FINISHES.	
7 REMOVE THEATER SEATING AND ALL ASSOCIATED MOUNTING HARDWARE.	
8 REMOVE HARDWOOD TRIM AT STAGE/STAIR EDGE AND CARPET ON VERTICAL SURFACE OF STAGE FRONT.	CONSU
9 REMOVE EXISTING THRESHOLD. PREPARE SUBFLOOR FOR NEW THRESHOLD.	
10 REMOVE EXISTING CEILING, GRID, AND LIGHTS IN SPACE INDICATED. EXISTING GYPSUM BOARD CEILINGS TO REMAIN. EXISTING MECHANICAL REGISTERS TO REMAIN, UNLESS OTHERWISE NOTED. COORDINATE WITH ELECTRICAL AND MECHANICAL DRAWINGS.	
(11) REMOVE TOILET ROOM ACCESSORIES. SALVAGE FOR REINSTALLATION IN EXISTING LOCATION AFTER NEW FINISH INSTALLATION.	
$\langle 12 \rangle$ REMOVE CERAMIC WALL TILE. PREPARE WALL SURFACES FOR NEW FINISHES.	
(13) REMOVE EXISTING TOILET ROOM PLUMBING AND ELECTRICAL FIXTURES TO ACCOMMODATE NEW FLOOR & WALL FINISHES. SALVAGE AND REINSTALL IN EXISTING LOCATION.	
(14) REMOVE EXISTING DOOR, HARDWARE, AND FRAME. PREPARE OPENING FOR NEW DOOR AND FRAME.	
T5 REMOVE EXISTING CARPET AND WALL BASE. COORDINATE WITH A10.X SERIES DRAWINGS.	
SAW-CUT AND REMOVE PORTION OF EXISTING CONCRETE FLOOR SLAB. COORDINATE SIZE AND LOCATION WITH DETAIL 3/A5.1 AND REVIEWED THEATER SEATING SHOP DRAWING SUBMITTALS.	PROJEC
17 REMOVE AND SALVAGE EXISTING DOOR, HARDWARE, AND FRAME TO ACCOMMODATE NEW MECHANICAL EQUIPMENT INSTALLATION.	
18 REMOVE EXISTING CEILING, GRID, AND LIGHTS IN SPACE INDICATED. EXISTING MECHANICAL REGISTERS TO REMAIN, UNLESS OTHERWISE NOTED. COORDINATE WITH ELECTRICAL AND MECHANICAL DRAWINGS.	Scł Rei
SALVAGED ITEMS	
 TOILET ROOM ACCESSORIES DOORS AND HARDWARE 	
 TOILET FIXTURES 	Plym

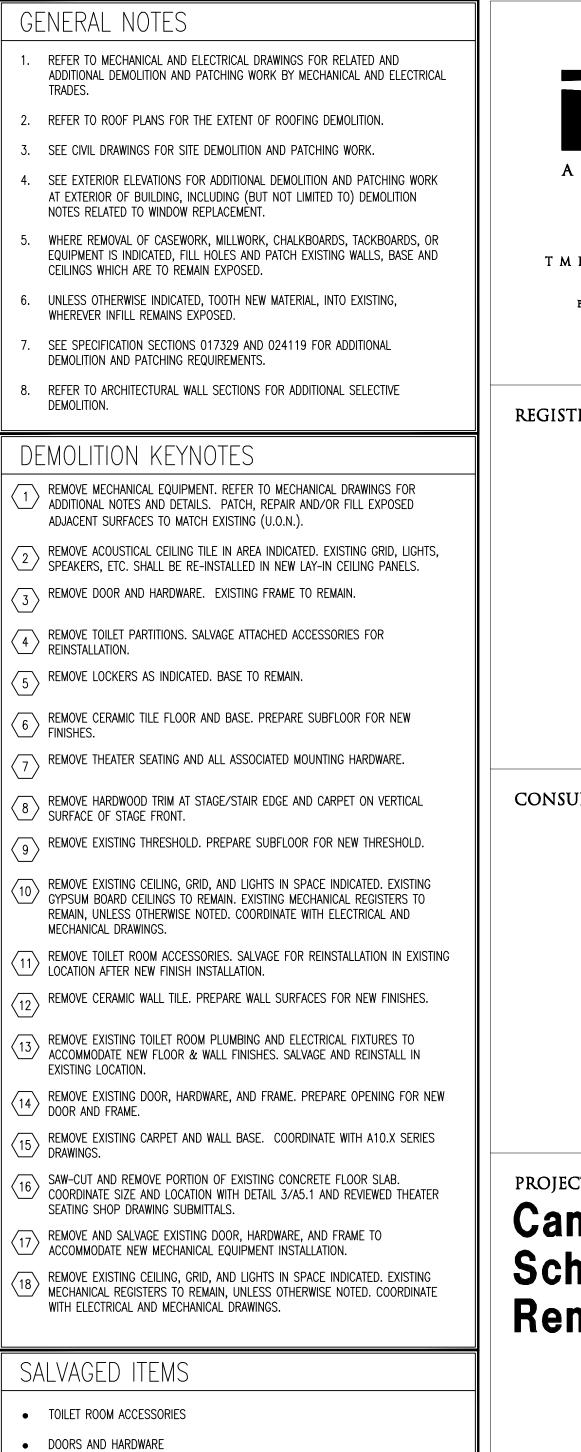




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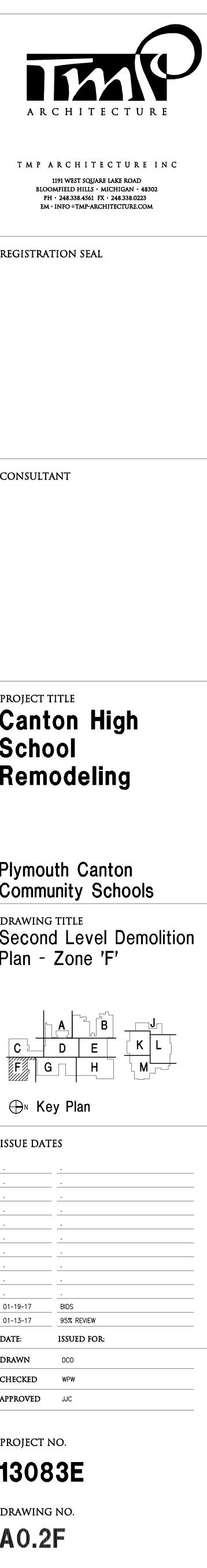


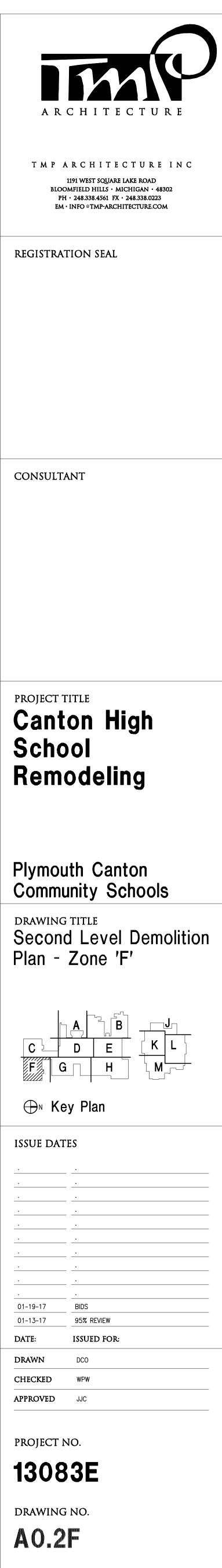








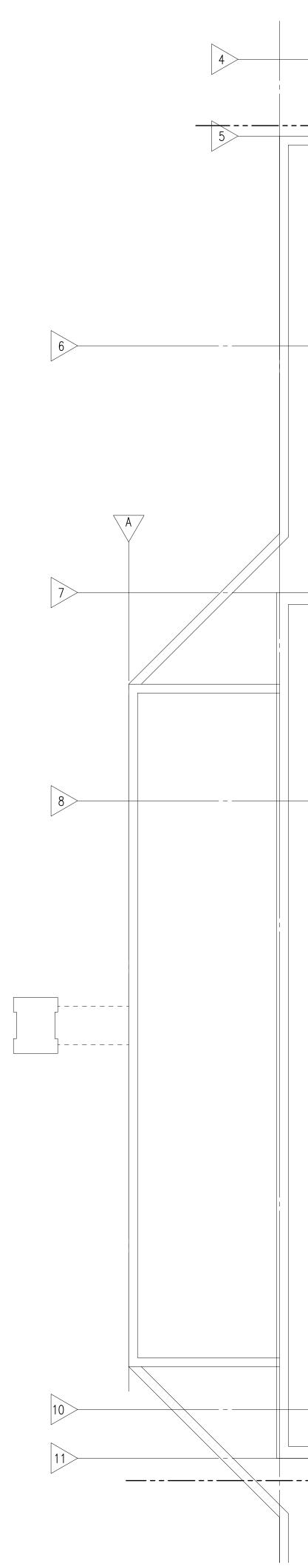




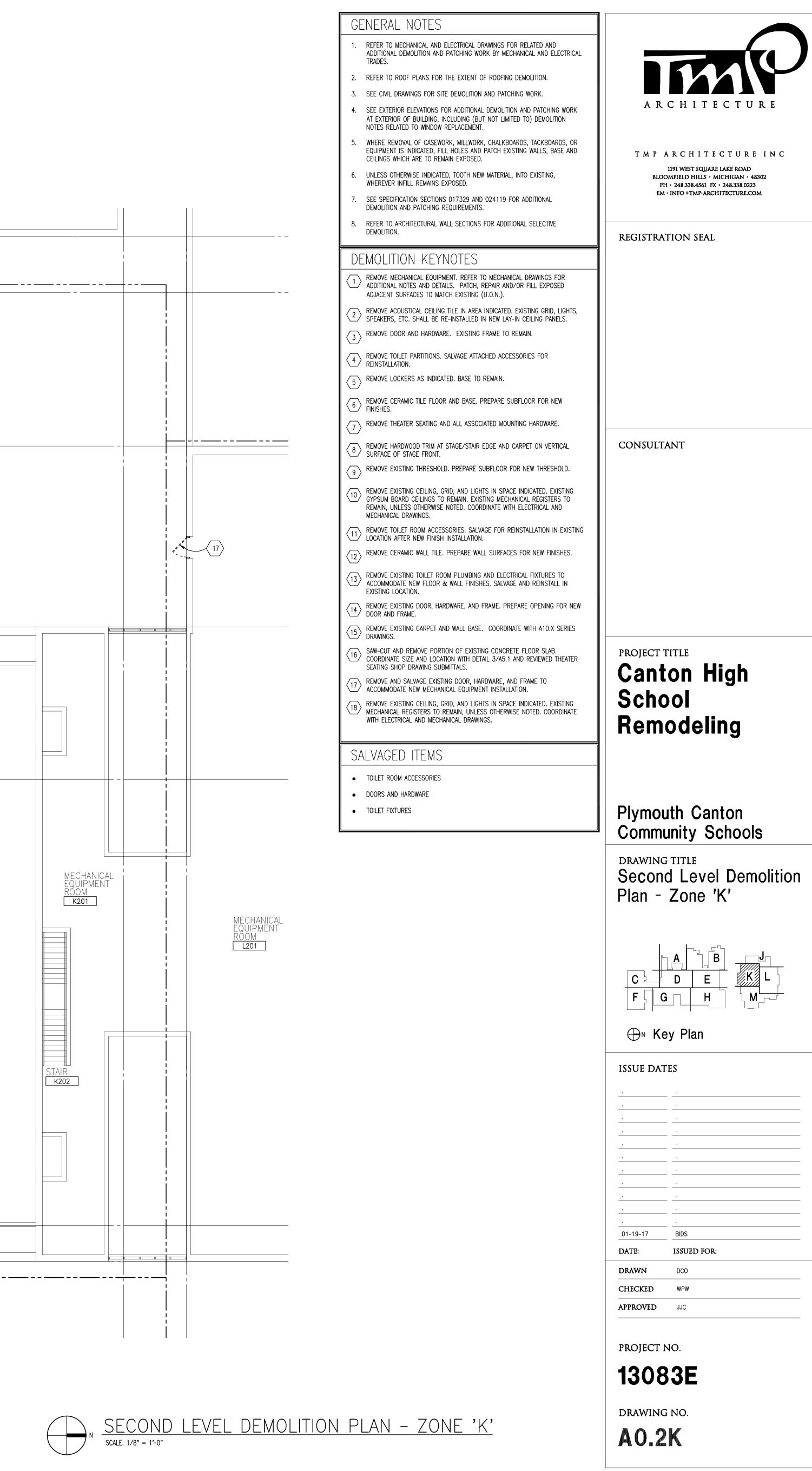


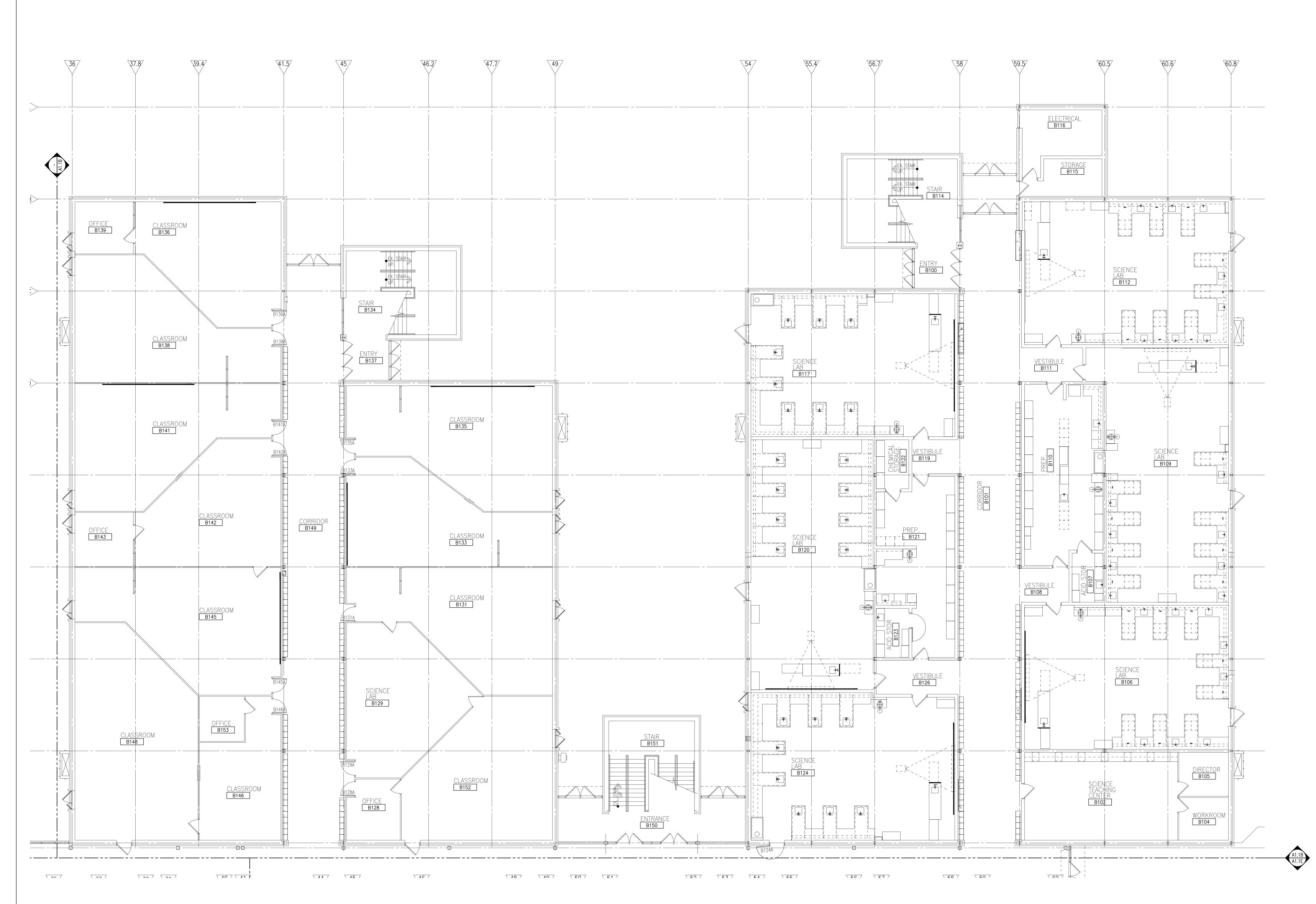
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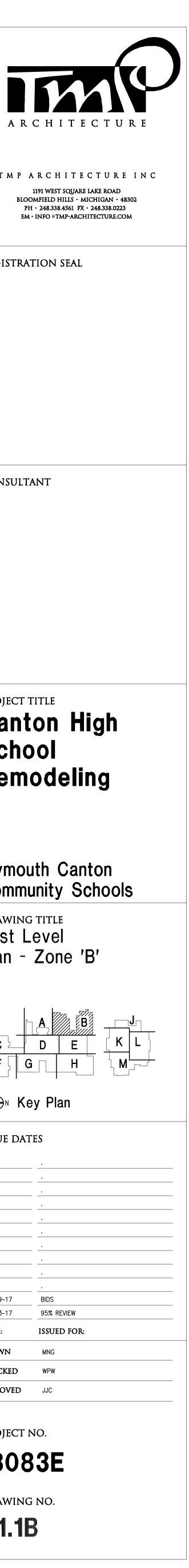


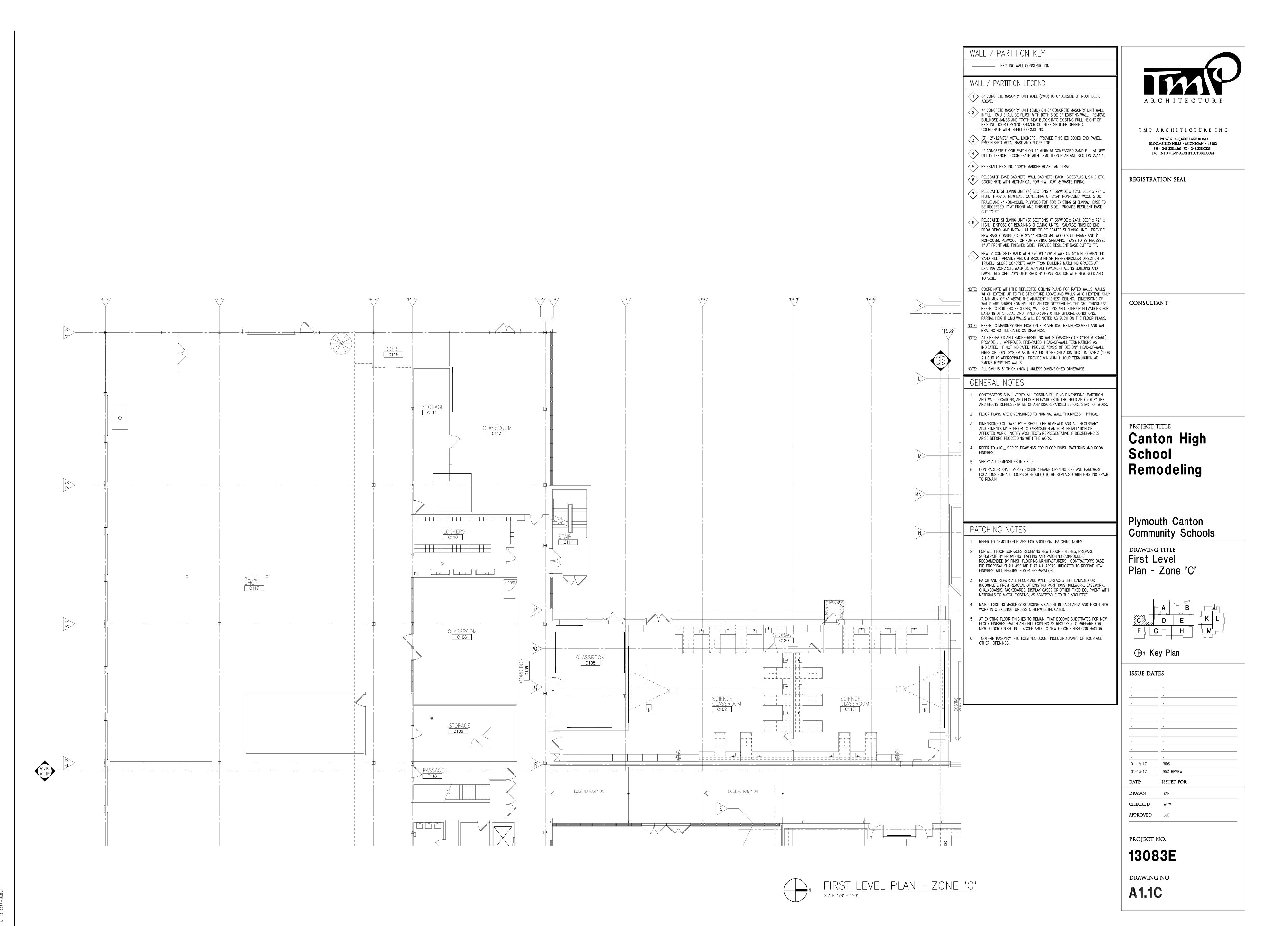
REFER TO OTHER FLOOR PLANS FOR WALL LEGEND, PLAN KEYNOTES, GENERAL NOTES & PATCHING NOTES

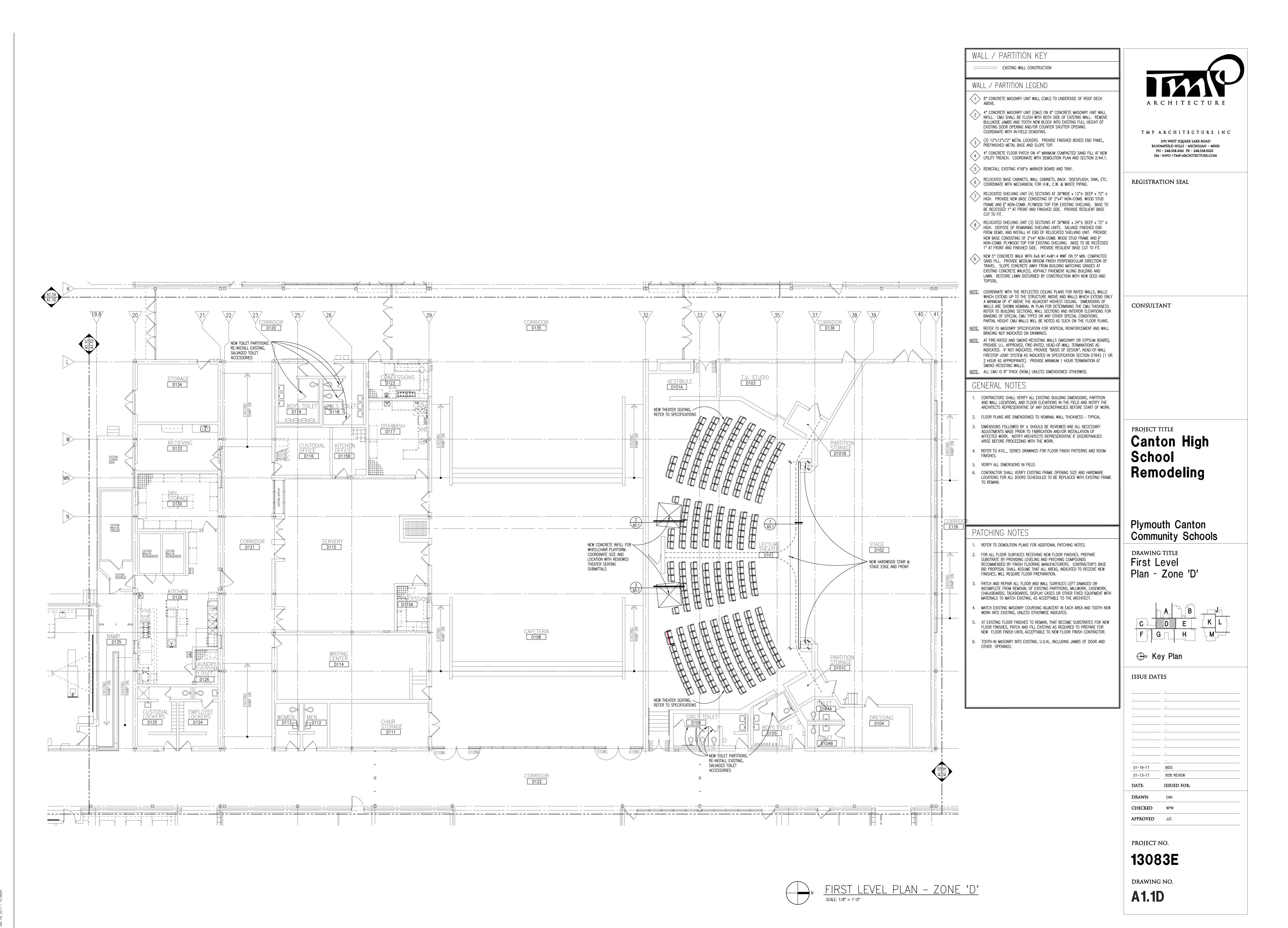
FIRST LEVEL PLAN – ZONE 'B' SCALE: 1/8" = 1'-0"

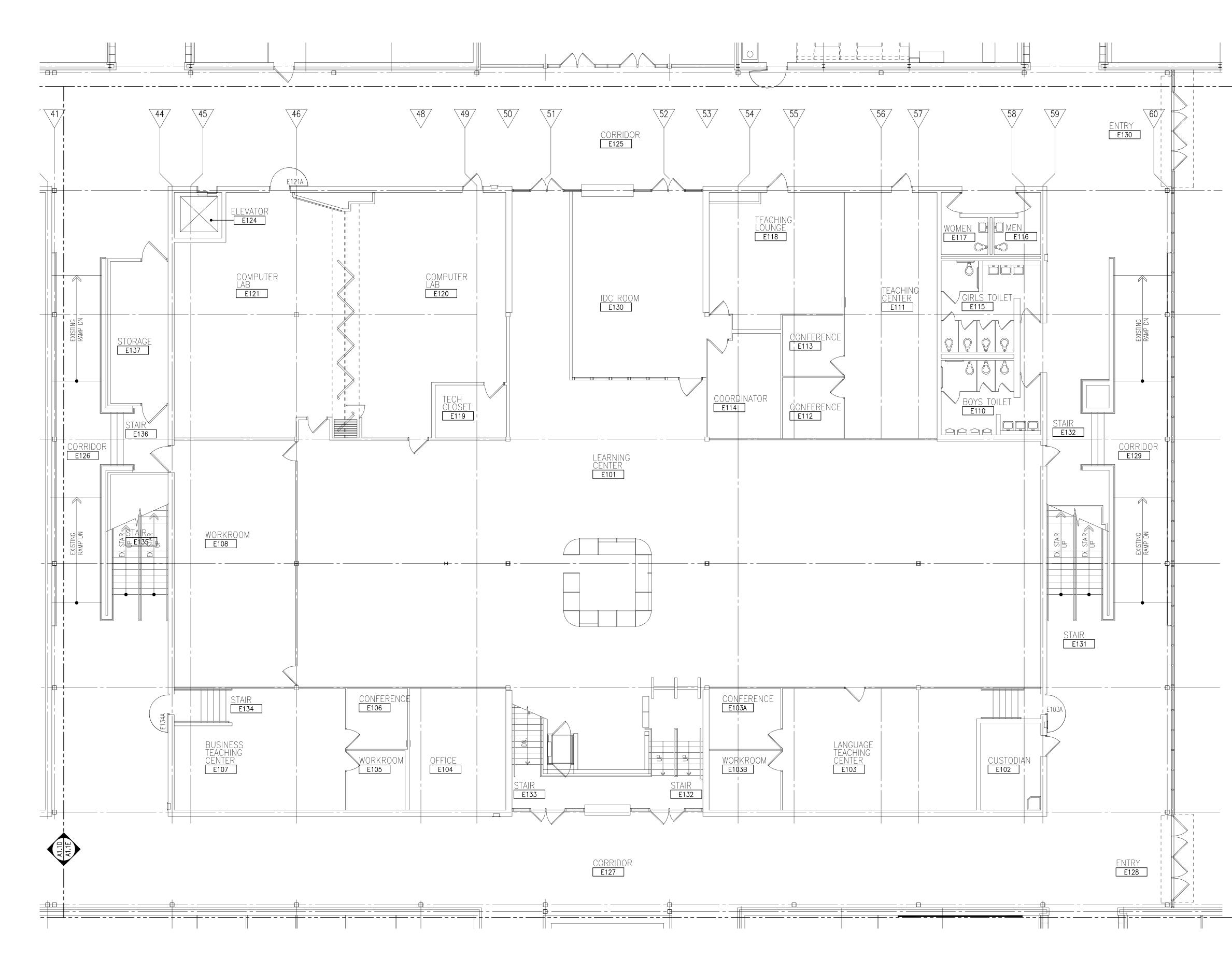
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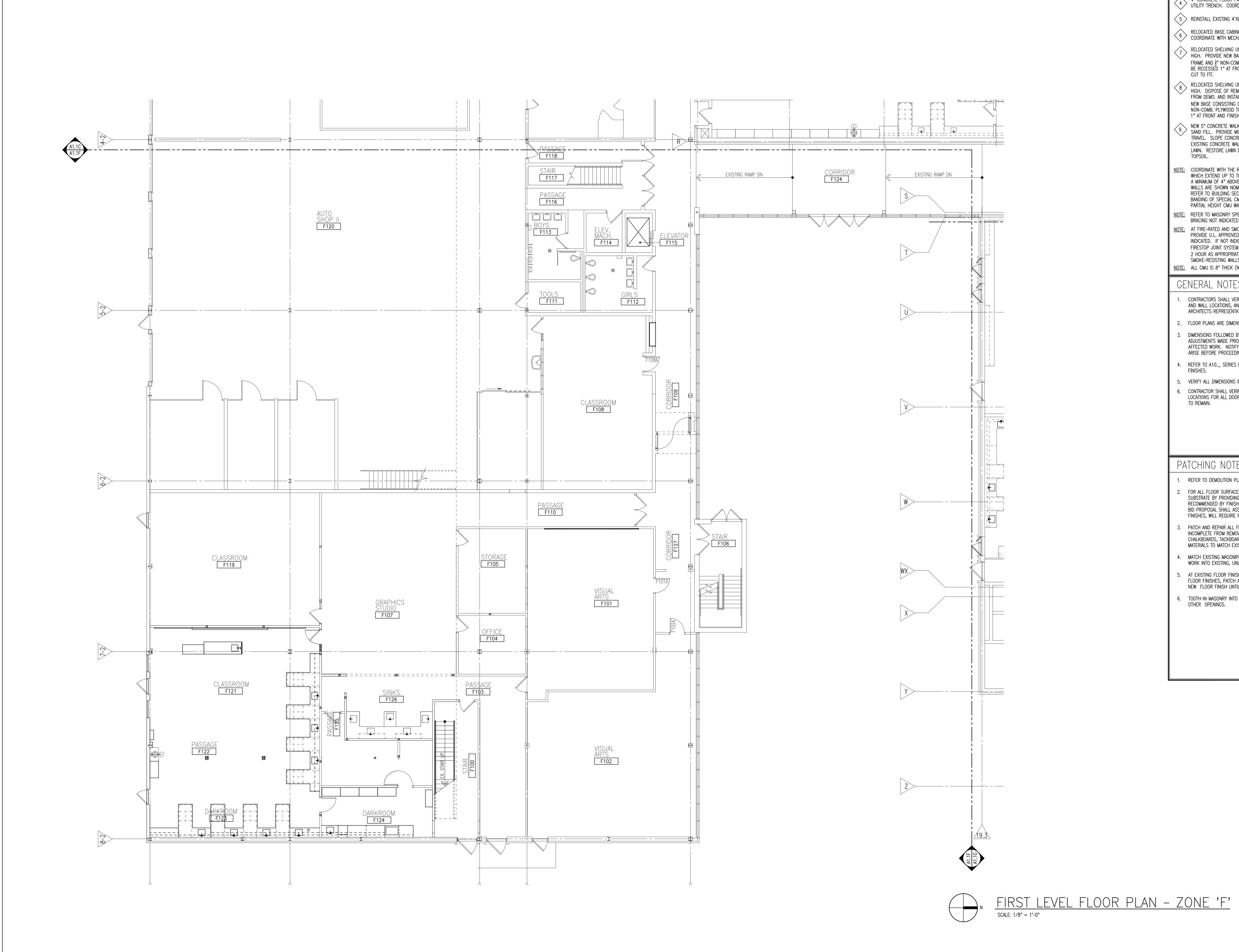


	LL / PARTITION KEY existing wall construction
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A R	4" CONCRETE MASONRY UNIT (CMU) ON 8" CONCRETE MASONRY UNIT WALL INFILL. CMU SHALL BE FLUSH WITH BOTH SIDE OF EXISTING WALL. REMOVE BULLNOSE JAMBS AND TOOTH NEW BLOCK INTO EXISTING FULL HEIGHT OF EXISTING DOOR OPENING AND/OR COUNTER SHUTTER OPENING.
T M P BLO	 (3) 12"x12"x72" METAL LOCKERS. PROVIDE FINISHED BOXED END PANEL, PREFINISHED METAL BASE AND SLOPE TOP.
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	RELOCATED SHELVING UNIT (4) SECTIONS AT 36"WIDE x 12" \pm DEEP x 72" \pm HIGH. PROVIDE NEW BASE CONSISTING OF 2"x4" NON-COMB. WOOD STUD FRAME AND $\frac{1}{2}$ " NON-COMB. PLYWOOD TOP FOR EXISTING SHELVING. BASE TO BE RECESSED 1" AT FRONT AND FINISHED SIDE. PROVIDE RESILIENT BASE CUT TO FIT. RELOCATED SHELVING UNIT (3) SECTIONS AT 36"WIDE x 24" \pm DEEP x 72" \pm HIGH. DISPOSE OF REMAINING SHELVING UNITS. SALVAGE FINISHED END
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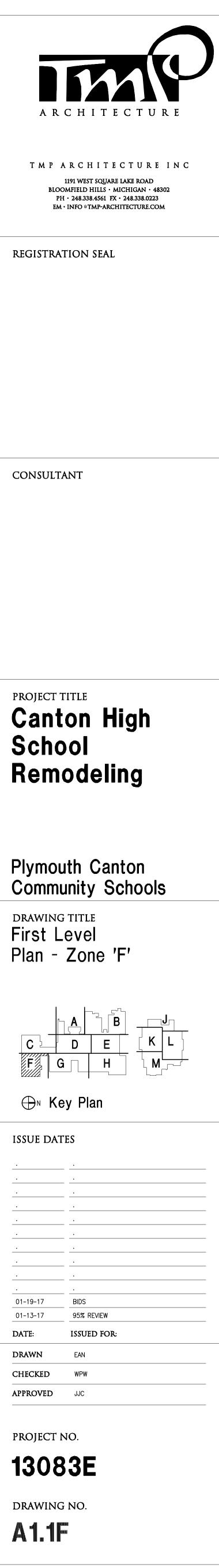


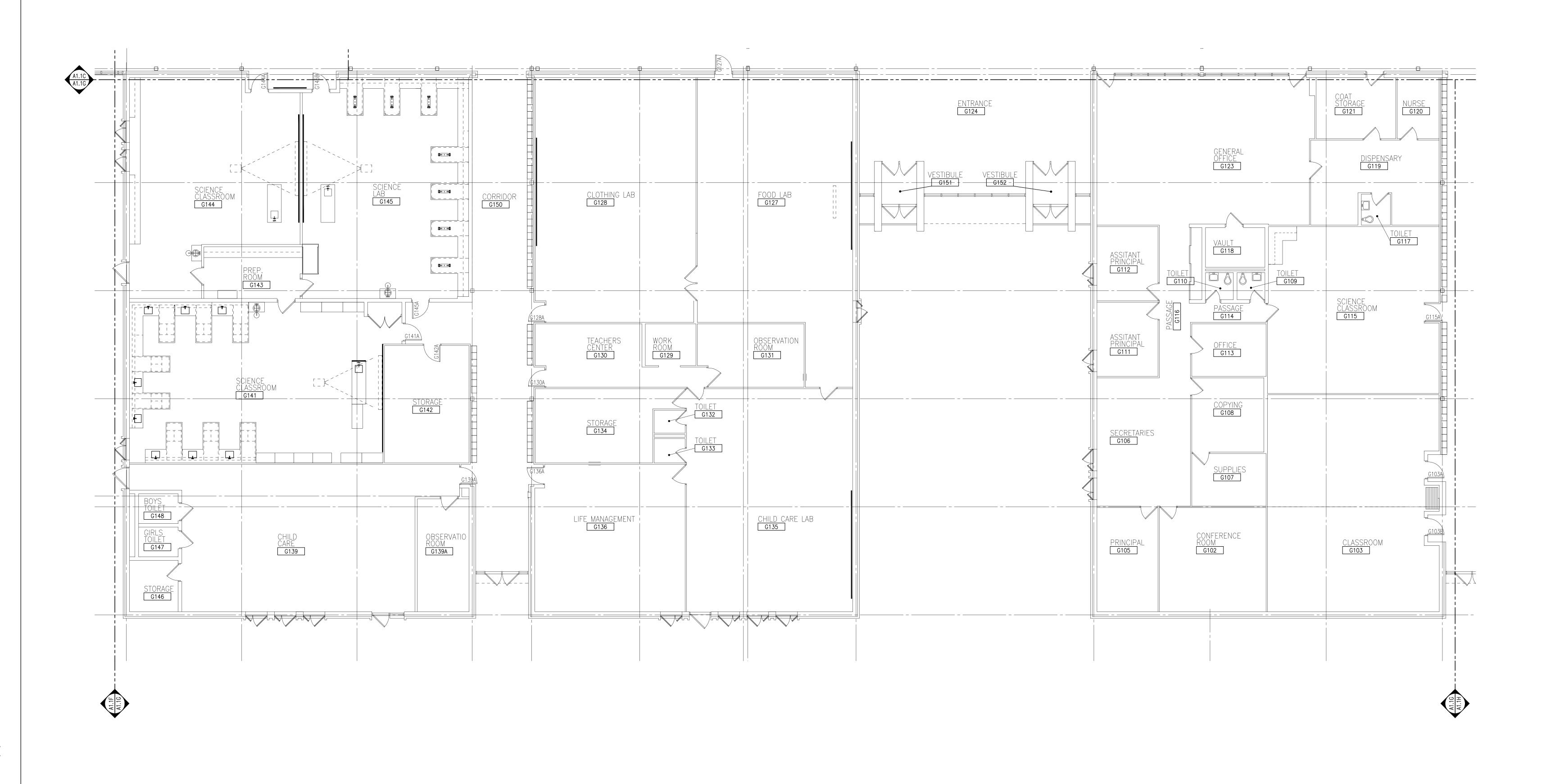
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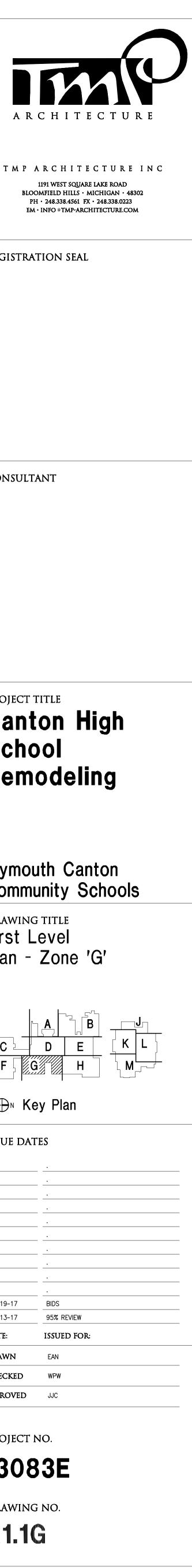


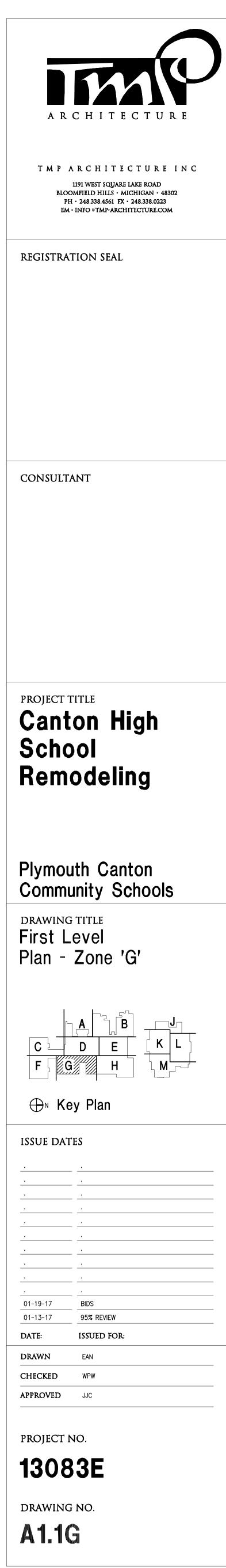


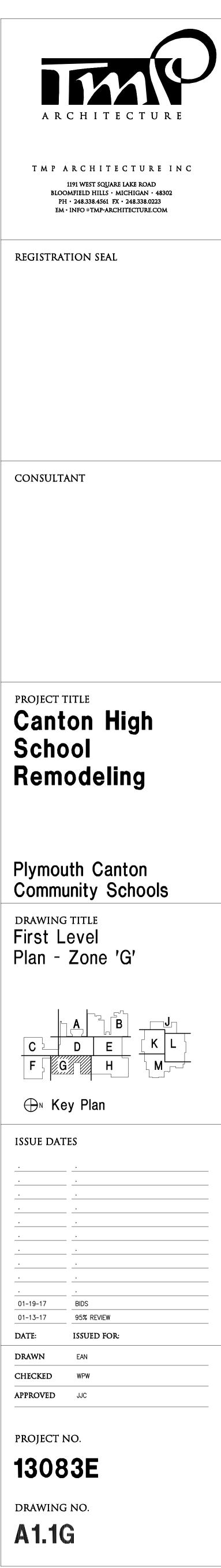
	EXISTING WALL CONSTRUCTION	
WA	LL / PARTITION LEGEND	
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NOTE:	COORDINATE WITH THE REFLECTED CEILING PLANS FOR RATED WALLS, WALLS WHICH EXTEND UP TO THE STRUCTURE ABOVE AND WALLS WHICH EXTEND ONLY A MINIMUM OF 4" ABOVE THE ADJACENT HIGHEST CEILING. DIMENSIONS OF WALLS ARE SHOWN NOMINAL IN PLAN FOR DETERMINING THE CMU THICKNESS. REFER TO BUILDING SECTIONS, WALL SECTIONS AND INTERIOR ELEVATIONS FOR BANDING OF SPECIAL CMU TYPES OR ANY OTHER SPECIAL CONDITIONS. PARTIAL HEIGHT CMU WALLS WILL BE NOTED AS SUCH ON THE FLOOR PLANS.	
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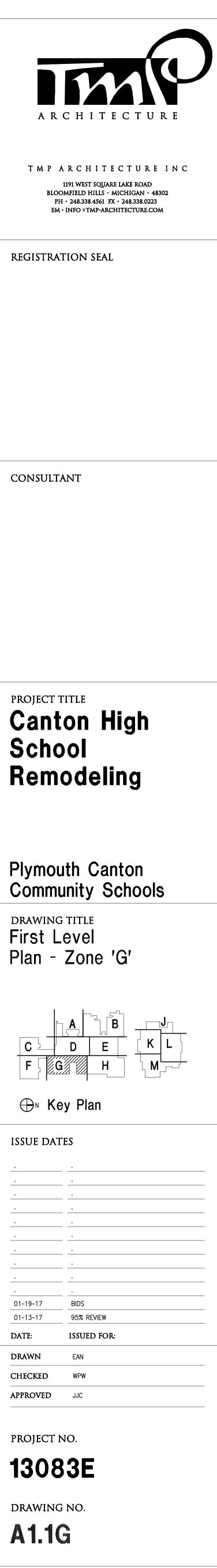






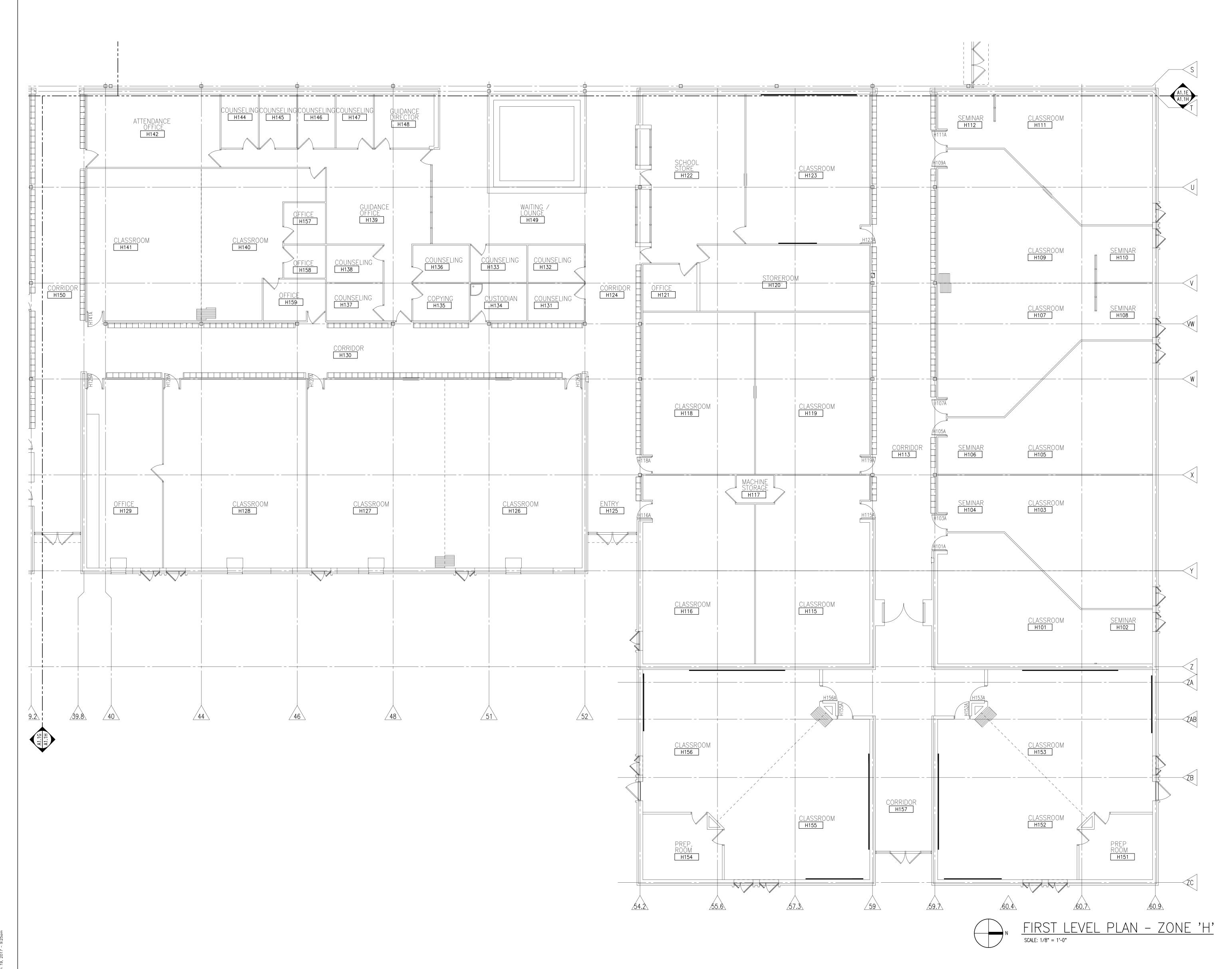


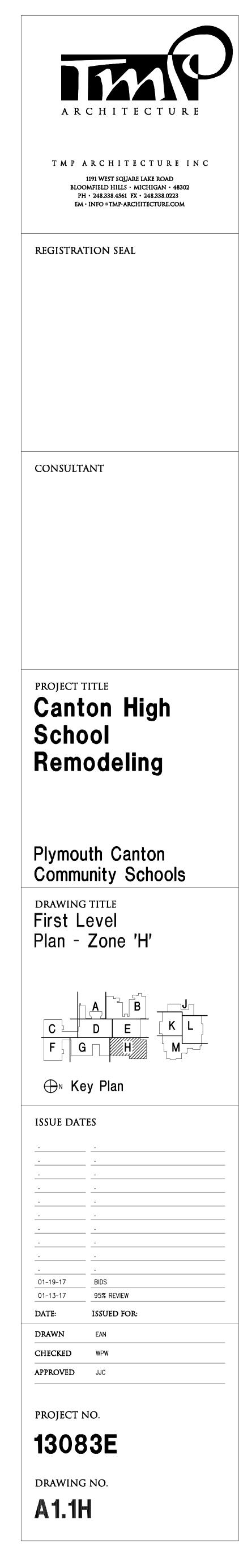


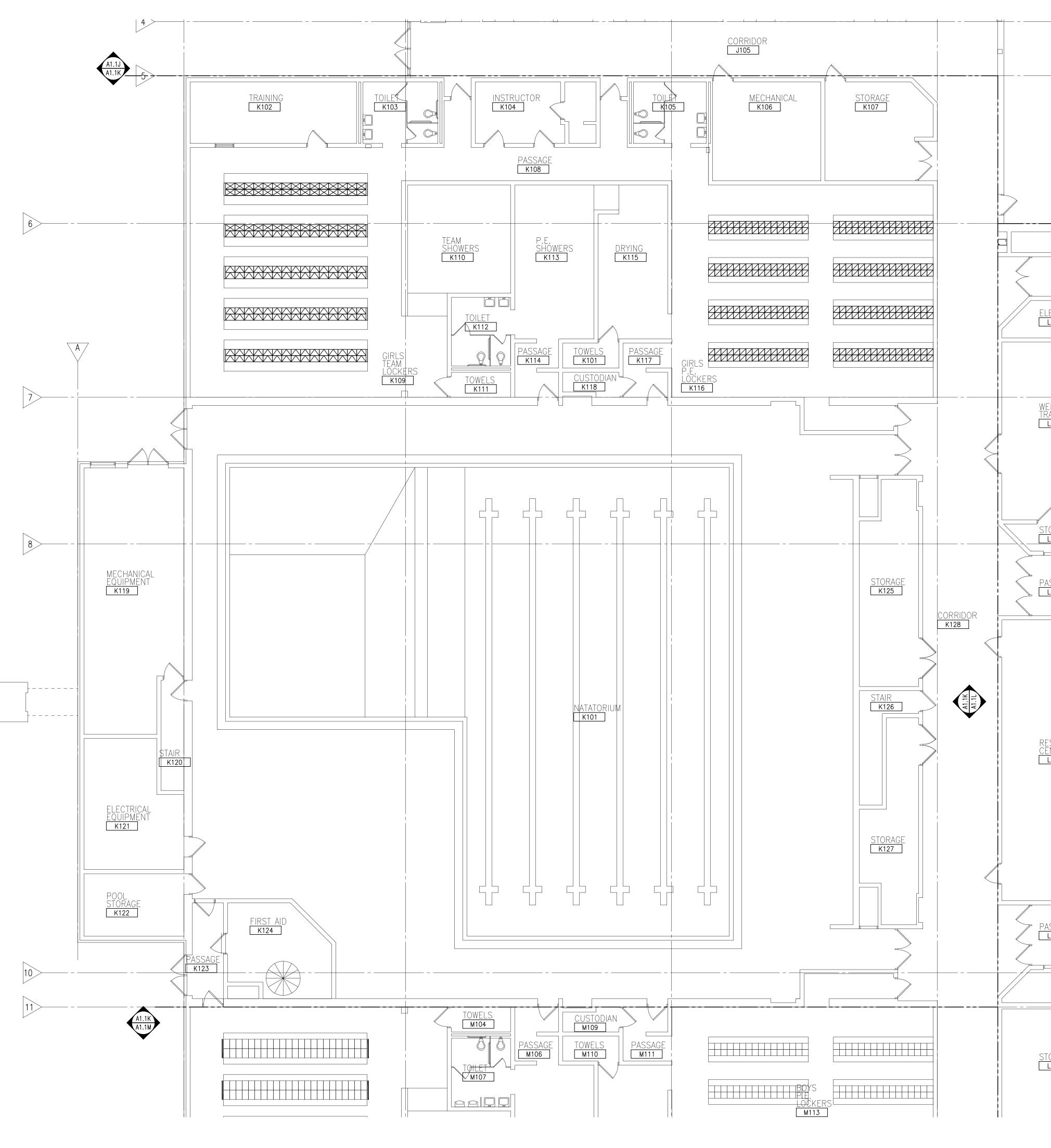


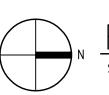
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FIRST LEVEL FLOOR PLAN - ZONE 'G'





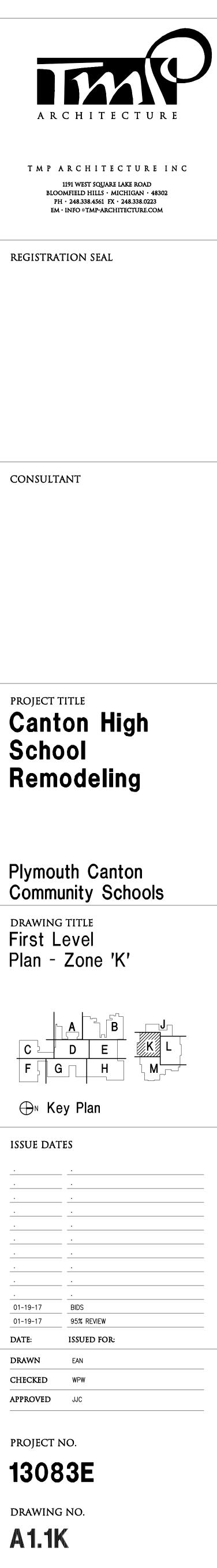


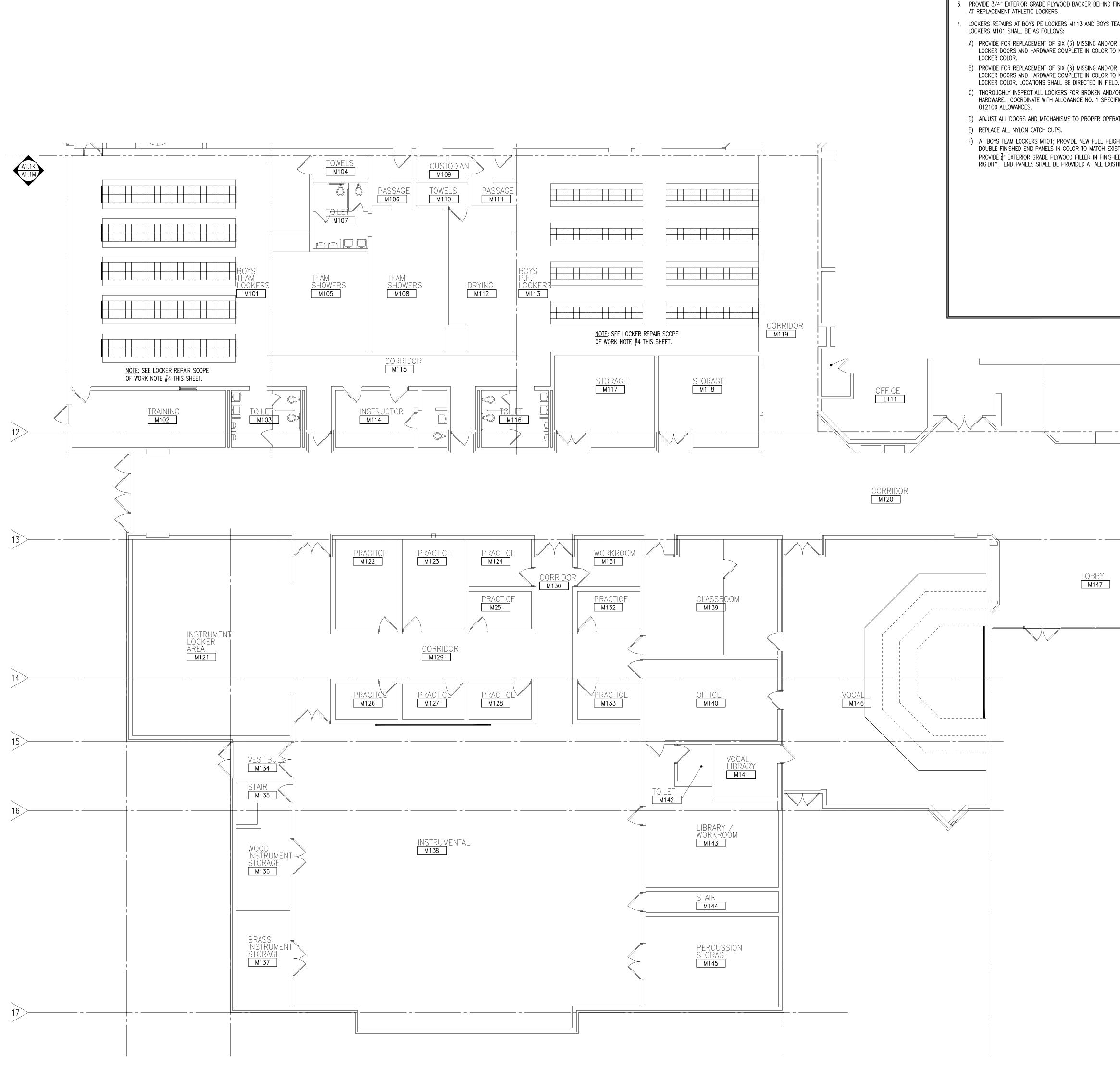


FIRST LEVEL PLAN - ZONE 'K' SCALE: 1/8" = 1'-0"

	LOCKER LEGEND NOT ALL LOCKER TYPES MAY BE USED AT THIS SCHOOL	WALL / PARTITION KEY	
	L-1 DOUBLE-TIER ATHLETIC LOCKERS (12" x 12" x 72" HIGH) VENTILATED		
	L-2 SINGLE-TIER ATHLETIC LOCKERS (18" x 12" x 72" HIGH) VENTILATED	WALL / PARTITION LEGEND	
	L-3 DOUBLE-TIER ATHLETIC LOCKERS (18" x 12" x 72" HIGH) VENTILATED	8" CONCRETE MASONRY UNIT WALL (CMU) TO UNDERSIDE OF ROOF DECK ABOVE.	A R
	L-4 EXISTING ATHLETIC LOCKERS TO BE REFURBISHED AS REQUIRED WHERE INDICATED DOUBLE-TIER ATHLETIC LOCKERS (15" x 15" x 72" HIGH) VENTILATED	4" CONCRETE MASONRY UNIT (CMU) ON 8" CONCRETE MASONRY UNIT WALL INFILL. CMU SHALL BE FLUSH WITH BOTH SIDE OF EXISTING WALL. REMOVE BULLNOSE JAMBS AND TOOTH NEW BLOCK INTO EXISTING FULL HEIGHT OF EXISTING DOOR OPENING AND/OR COUNTER SHUTTER OPENING. COORDINATE WITH IN-FIELD OCNDITINS.	ТМР
	<u>GENERAL LOCKER NOTES:</u> 1. PROVIDE CONTINUOUS SLOPED TOPS AT ALL LOCKERS (UNLESS OTHERWISE	3 (3) 12"x12"x72" METAL LOCKERS. PROVIDE FINISHED BOXED END PANEL, PREFINISHED METAL BASE AND SLOPE TOP.	BLC
	INDICATED). 2. PROVIDE FILLER PIECES AT ENDS & CORNERS AS REQUIRED.	4" CONCRETE FLOOR PATCH ON 4" MINIMUM COMPACTED SAND FILL AT NEW UTILITY TRENCH. COORDINATE WITH DEMOLITION PLAN AND SECTION 2/A4.1.	P EA
	3. PROVIDE 3/4" EXTERIOR GRADE PLYWOOD BACKER BEHIND FINISHED END PANELS AT REPLACEMENT ATHLETIC LOCKERS.	5 REINSTALL EXISTING 4'X8"± MARKER BOARD AND TRAY.	
	 4. LOCKERS REPAIRS AT BOYS PE LOCKERS M113 AND BOYS TEAM ROOM LOCKERS M101 SHALL BE AS FOLLOWS: A) PROVIDE FOR REPLACEMENT OF SIX (6) MISSING AND/OR DAMAGED 12"X12"± 	6 RELOCATED BASE CABINETS, WALL CABINETS, BACK SIDESPLASH, SINK, ETC. COORDINATE WITH MECHANICAL FOR H.W., C.W. & WASTE PIPING.	REGISTRA
	 LOCKER DOORS AND HARDWARE COMPLETE IN COLOR TO MATCH EXISTING LOCKER COLOR. B) PROVIDE FOR REPLACEMENT OF SIX (6) MISSING AND/OR DAMAGED 12"X36"± LOCKER DOORS AND HARDWARE COMPLETE IN COLOR TO MATCH EXISTING 	RELOCATED SHELVING UNIT (4) SECTIONS AT 36"WIDE x 12"± DEEP x 72" ± HIGH. PROVIDE NEW BASE CONSISTING OF 2"x4" NON-COMB. WOOD STUD FRAME AND ½" NON-COMB. PLYWOOD TOP FOR EXISTING SHELVING. BASE TO BE RECESSED 1" AT FRONT AND FINISHED SIDE. PROVIDE RESILIENT BASE CUT TO FIT.	
	LOCKER COLOR. LOCATIONS SHALL BE DIRECTED IN FIELD. C) THOROUGHLY INSPECT ALL LOCKERS FOR BROKEN AND/OR MISSING HARDWARE. COORDINATE WITH ALLOWANCE NO. 1 SPECIFICATION SECTION 012100 ALLOWANCES.	RELOCATED SHELVING UNIT (3) SECTIONS AT 36"WIDE x 24"± DEEP x 72" ± HIGH. DISPOSE OF REMAINING SHELVING UNITS. SALVAGE FINISHED END FROM DEMO. AND INSTALL AT END OF RELOCATED SHELVING UNIT. PROVIDE NEW BASE CONSISTING OF 2"x4" NON-COMB. WOOD STUD FRAME AND ¹ / ₂ "	
	D) ADJUST ALL DOORS AND MECHANISMS TO PROPER OPERATING TOLERANCES.E) REPLACE ALL NYLON CATCH CUPS.	NON-COMB. PLYWOOD TOP FOR EXISTING SHELVING. BASE TO BE RECESSED 1" AT FRONT AND FINISHED SIDE. PROVIDE RESILIENT BASE CUT TO FIT.	
	F) AT BOYS TEAM LOCKERS M101; PROVIDE NEW FULL HEIGHT SLOPED TOP DOUBLE FINISHED END PANELS IN COLOR TO MATCH EXISTING LOCKER COLOR. PROVIDE $\frac{3}{4}$ " EXTERIOR GRADE PLYWOOD FILLER IN FINISHED END PANEL FOR RIGIDITY. END PANELS SHALL BE PROVIDED AT ALL EXISTING LOCKER BANKS.	9. NEW 5" CONCRETE WALK WITH 6x6 W1.4xW1.4 WWF ON 5" MIN. COMPACTED SAND FILL. PROVIDE MEDIUM BROOM FINISH PERPENDICULAR DIRECTION OF TRAVEL. SLOPE CONCRETE AWAY FROM BUILDING MATCHING GRADES AT EXISTING CONCRETE WALK(S), ASPHALT PAVEMENT ALONG BUILDING AND LAWN. RESTORE LAWN DISTURBED BY CONSTRUCTION WITH NEW SEED AND TOPSOIL.	
<i>Σ</i>		NOTE: COORDINATE WITH THE REFLECTED CEILING PLANS FOR RATED WALLS, WALLS WHICH EXTEND UP TO THE STRUCTURE ABOVE AND WALLS WHICH EXTEND ONLY A MINIMUM OF 4" ABOVE THE ADJACENT HIGHEST CEILING. DIMENSIONS OF WALLS ARE SHOWN NOMINAL IN PLAN FOR DETERMINING THE CMU THICKNESS. REFER TO BUILDING SECTIONS, WALL SECTIONS AND INTERIOR ELEVATIONS FOR BANDING OF SPECIAL CMU TYPES OR ANY OTHER SPECIAL CONDITIONS. PARTIAL HEIGHT CMU WALLS WILL BE NOTED AS SUCH ON THE FLOOR PLANS. NOTE: REFER TO MASONRY SPECIFICATION FOR VERTICAL REINFORCEMENT AND WALL	CONSULT
ELECTRICAL		BRACING NOT INDICATED ON DRAWINGS. NOTE: AT FIRE-RATED AND SMOKE-RESISTING WALLS (MASONRY OR GYPSUM BOARD), PROVIDE U.L. APPROVED, FIRE-RATED, HEAD-OF-WALL TERMINATIONS AS INDICATED. IF NOT INDICATED, PROVIDE "BASIS OF DESIGN", HEAD-OF-WALL FIRESTOP JOINT SYSTEM AS INDICATED IN SPECIFICATION SECTION 07842 (1 OR 2 HOUR AS APPROPRIATE). PROVIDE MINIMUM 1 HOUR TERMINATION AT	
L102		SMOKE-RESISTING WALLS. <u>NOTE:</u> ALL CMU IS 8" THICK (NOM.) UNLESS DIMENSIONED OTHERWISE.	
		GENERAL NOTES	
		 CONTRACTORS SHALL VERIFY ALL EXISTING BUILDING DIMENSIONS, PARTITION AND WALL LOCATIONS, AND FLOOR ELEVATIONS IN THE FIELD AND NOTIFY THE ARCHITECTS REPRESENTATIVE OF ANY DISCREPANCIES BEFORE START OF WORK. FLOOR PLANS ARE DIMENSIONED TO NOMINAL WALL THICKNESS - TYPICAL. 	
WEIGHT TRAINING L103		3. DIMENSIONS FOLLOWED BY ± SHOULD BE REVIEWED AND ALL NECESSARY ADJUSTMENTS MADE PRIOR TO FABRICATION AND/OR INSTALLATION OF AFFECTED WORK. NOTIFY ARCHITECTS REPRESENTATIVE IF DISCREPANCIES	PROJECT
		ARISE BEFORE PROCEEDING WITH THE WORK.4. REFER TO A10 SERIES DRAWINGS FOR FLOOR FINISH PATTERNS AND ROOM FINISHES.	Cant Sob
		 5. VERIFY ALL DIMENSIONS IN FIELD. 6. CONTRACTOR SHALL VERIFY EXISTING FRAME OPENING SIZE AND HARDWARE 	Scho Rem
STORAGE		LOCATIONS FOR ALL DOORS SCHEDULED TO BE REPLACED WITH EXISTING FRAME TO REMAIN.	NEIII
PASSAGE		PATCHING NOTES	Plymo Comm
		1. REFER TO DEMOLITION PLANS FOR ADDITIONAL PATCHING NOTES.	DRAWING
		 FOR ALL FLOOR SURFACES RECEIVING NEW FLOOR FINISHES, PREPARE SUBSTRATE BY PROVIDING LEVELING AND PATCHING COMPOUNDS RECOMMENDED BY FINISH FLOORING MANUFACTURERS. CONTRACTOR'S BASE BID PROPOSAL SHALL ASSUME THAT ALL AREAS, INDICATED TO RECEIVE NEW 	First L
		 FINISHES, WILL REQUIRE FLOOR PREPARATION. PATCH AND REPAIR ALL FLOOR AND WALL SURFACES LEFT DAMAGED OR 	Plan -
		INCOMPLETE FROM REMOVAL OF EXISTING PARTITIONS, MILLWORK, CASEWORK, CHALKBOARDS, TACKBOARDS, DISPLAY CASES OR OTHER FIXED EQUIPMENT WITH MATERIALS TO MATCH EXISTING, AS ACCEPTABLE TO THE ARCHITECT.	
		4. MATCH EXISTING MASONRY COURSING ADJACENT IN EACH AREA AND TOOTH NEW WORK INTO EXISTING, UNLESS OTHERWISE INDICATED.	
RESOURCE CENTER		5. AT EXISTING FLOOR FINISHES TO REMAIN, THAT BECOME SUBSTRATES FOR NEW FLOOR FINISHES, PATCH AND FILL EXISTING AS REQUIRED TO PREPARE FOR NEW FLOOR FINISH UNTIL ACCEPTABLE TO NEW FLOOR FINISH CONTRACTOR.	
L106		6. TOOTH-IN MASONRY INTO EXISTING, U.O.N., INCLUDING JAMBS OF DOOR AND OTHER OPENINGS.	
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PASSAGE			·
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STORAGE L108			APPROVED
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- L-3 DOUBLE-TIER ATHLETIC LOCKERS (18" x 12" x 72" HIGH) VENTILATED

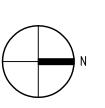
- LOCKER LEGEND

- <u>NOTE:</u> NOT ALL LOCKER T MAY BE USED AT THIS SC

- L-1 DOUBLE-TIER ATHLETIC LOCKERS (12" x 12" x 72" HIGH) VENTILATED L-2 SINGLE-TIER ATHLETIC LOCKERS (18" x 12" x 72" HIGH) VENTILATED

OCKER LEGEND NOLE: NOT ALL LOCKER TYPES MAY BE USED AT THIS SCHOOL 1□ DOUBLE-TER ATHLETIC LOCKERS (12" × 12" × 72" HIGH) VENTILATED 2□ SINGLE-TIER ATHLETIC LOCKERS (18" × 12" × 72" HIGH) VENTILATED 3□ DOUBLE-TER ATHLETIC LOCKERS (18" × 12" × 72" HIGH) VENTILATED 4□ EXISTING ATHLETIC LOCKERS TO BE REFURBISHED AS REQUIRED WHERE INDICATED 5□ DOUBLE-TER ATHLETIC LOCKERS (15" × 15" × 72" HIGH) VENTILATED ENERAL LOCKER NOTES: POVIDE CONTINUOUS SLOPED TOPS AT ALL LOCKERS (UNLESS OTHERWISE INDICATED). 2□ PROVIDE FILLER PIECES AT ENDS & CORNERS AS REQUIRED. 4□ PROVIDE FILLER PIECES AT ENDS & CORNERS AS REQUIRED. 5. LOCKERS REPAIRS AT BOYS PE LOCKERS M113 AND BOYS TEAM ROOM LOCKERS MID SHALL BE AS FOLLOWS: 4) PROVIDE FOR REPLACEMENT OF SIX (6) MISSING AND/OR DAMAGED 12"X12"± LOCKER OOLOR. 6) PROVIDE FOR REPLACEMENT OF SIX (6) MISSING AND/OR DAMAGED 12"X36"± LOCKER COLOR. 7) PROVIDE FOR REPLACEMENT OF SIX (6) MISSING AND/OR DAMAGED 12"X36"± LOCKER COLOR. 8) PROVIDE FOR REPLACEMENT OF SIX (6) MISSING AND/OR DAMAGED 12"X36"± LOCKER COLOR. 9) PROVIDE FOR REPLACEMENT OF SIX (6) MISSING AND/OR DAMAGED 12"X36"± LOCKER COLOR. 9) PROVIDE FOR REPLACEMENT OF SIX (6) MISSING AND/OR DAMAGED 12"X36"± LOCKER DOORS AND MARDWARE COMPLETE IN INCLOR TO MATCH EXISTING LOCKE	 GENERAL NOTES CONTRACTORS SHALL VERIFY ALL EXISTING BUILDING DIMENSIONS, PARTITION AND WALL LOCATIONS, AND FLOOR ELEVATIONS IN THE FIELD AND NOTIFY THE ARCHITECTS REPRESENTATIVE OF ANY DISCREPANCIES BEFORE START OF WORK. FLOOR PLANS ARE DIMENSIONED TO NOMINAL WALL THICKNESS - TYPICAL. DIMENSIONS FOLLOWED BY ± SHOULD BE REVIEWED AND ALL NECESSARY ADJUSTMENTS MADE PRORE TO FARME CONTROLLING INSTALLATION OF AFFECTED WORK. NOTIFY ARCHITECTS REPRESENTATIVE IF DISCREPANCIES ARISE BEFORE PROCEEDING WITH THE WORK. REFER TO ATOSERIES DRAWINGS FOR FLOOR FINISH PATTERNS AND ROOM FINISHES. VERIFY ALL DIMENSIONS IN FIELD. CONTRACTOR SHALL VERIFY EXISTING FRAME OPENING SIZE AND HARDWARE LOCATIONS FOR ALL DOORS SCHEDULED TO BE REPLACED WITH EXISTING FRAME TO REMAN. 	WALL / PARTITION LEGEND 	
	NEW SYNTHETIC THRESHOLD PAINT DOORS AT CONCESSIONS MENS CUSTODIAN M180 CUSTODIAN M150 CUSTODIAN M150 CUSTODIAN		

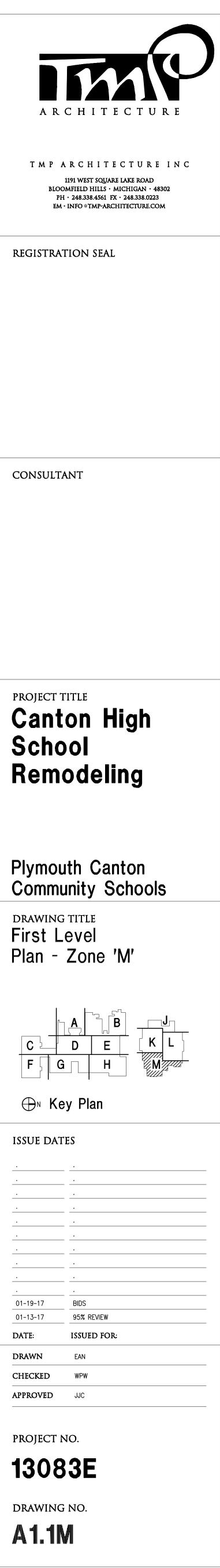
NOTE: REINSTALL SALVAGED FIXTURES. REINSTALL SALVAGED TOILET ROOM ACCESSORIES IN PREVIOUS LOCATION

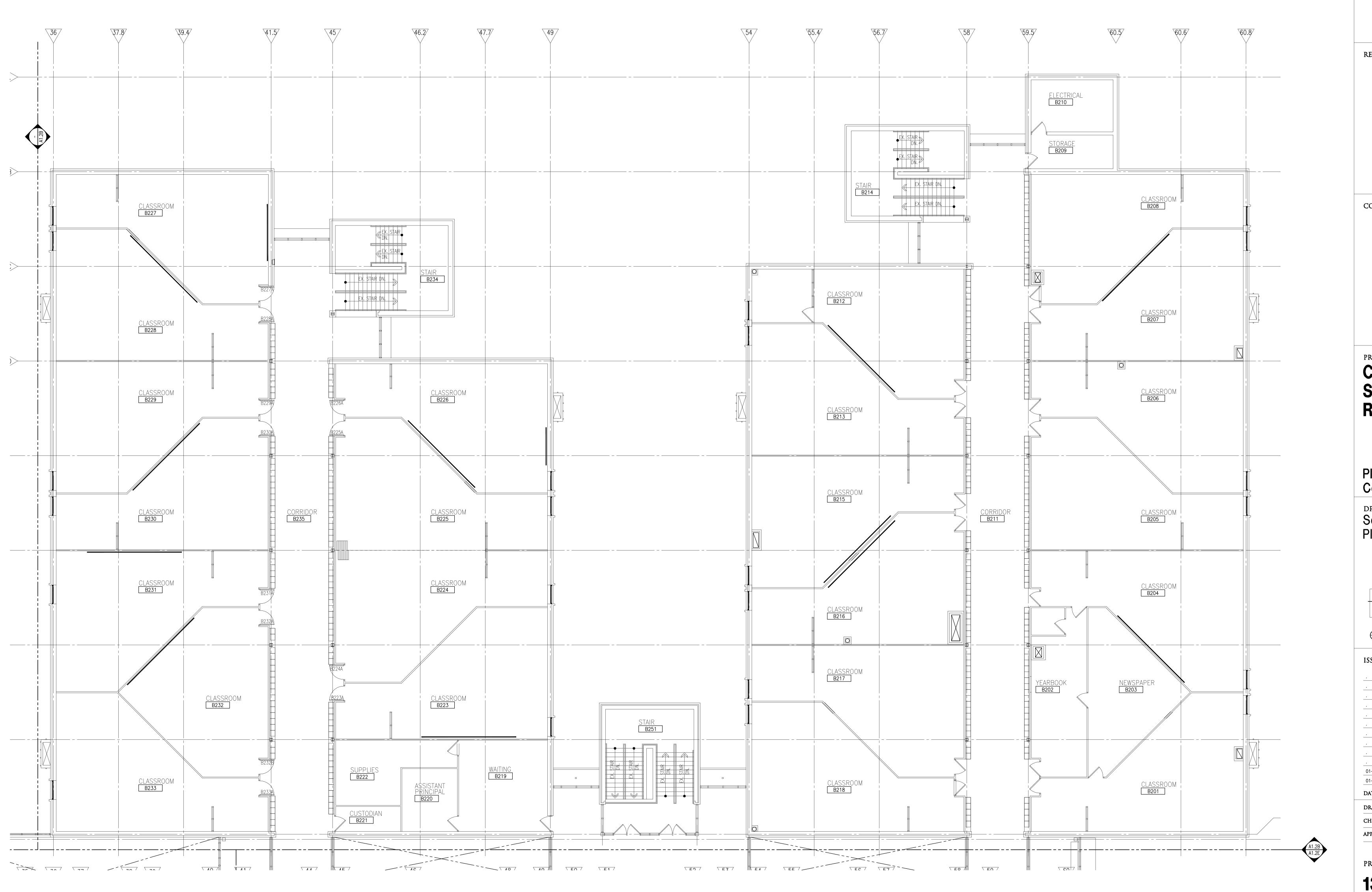


FIRST LEVEL PLAN - ZONE 'M' SCALE: 1/8" = 1'-0"

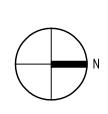
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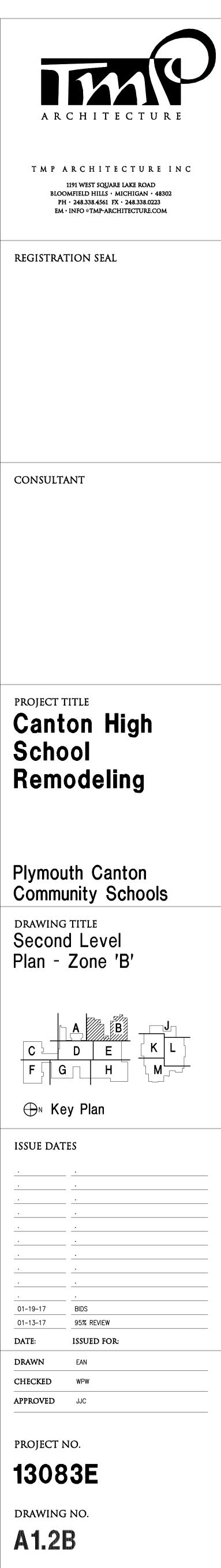


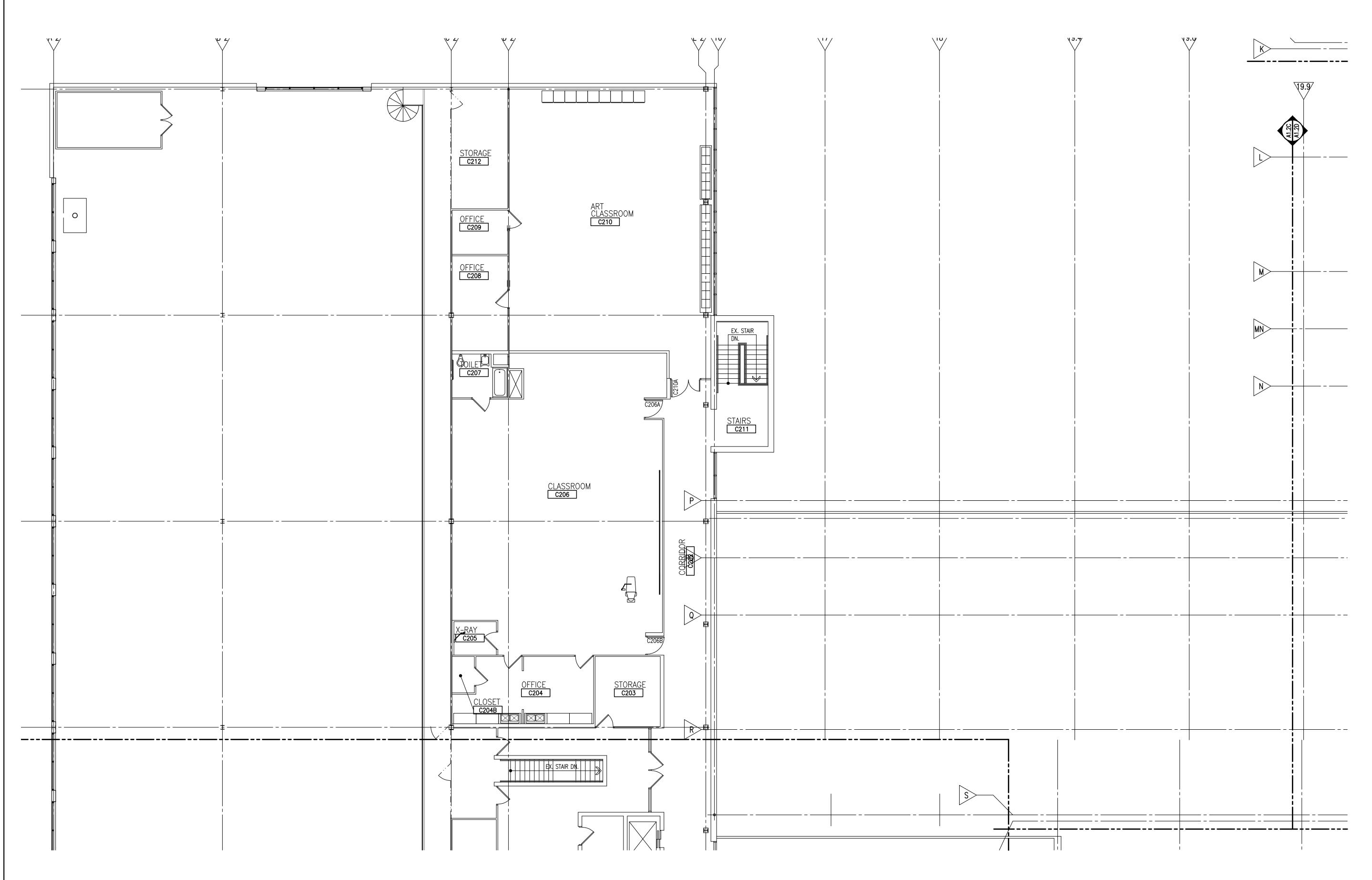


REFER TO OTHER FLOOR PLANS FOR WALL LEGEND, PLAN KEYNOTES, GENERAL NOTES & PATCHING NOTES



SECOND LEVEL PLAN - ZONE 'B' SCALE: 1/8" = 1'-0"



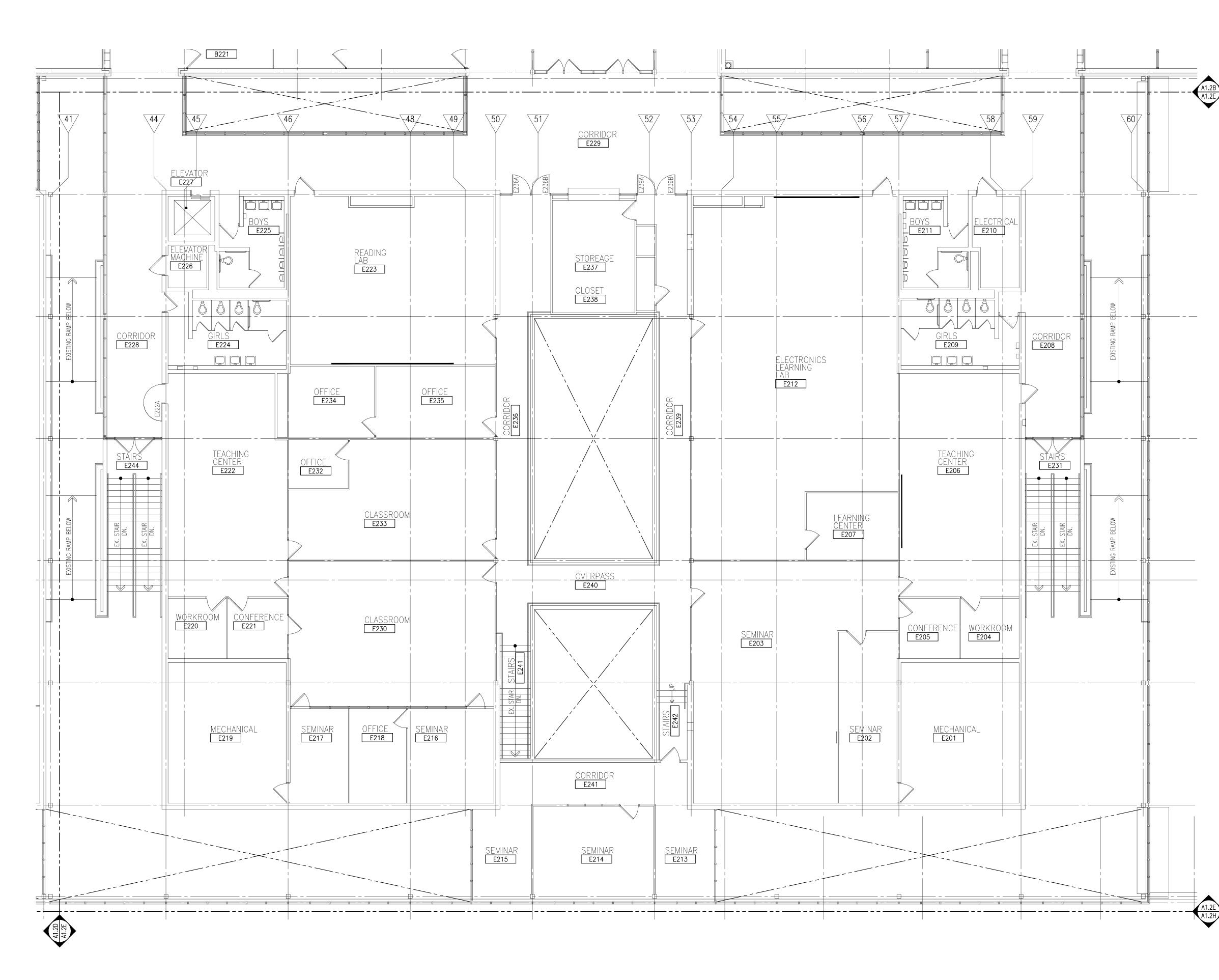


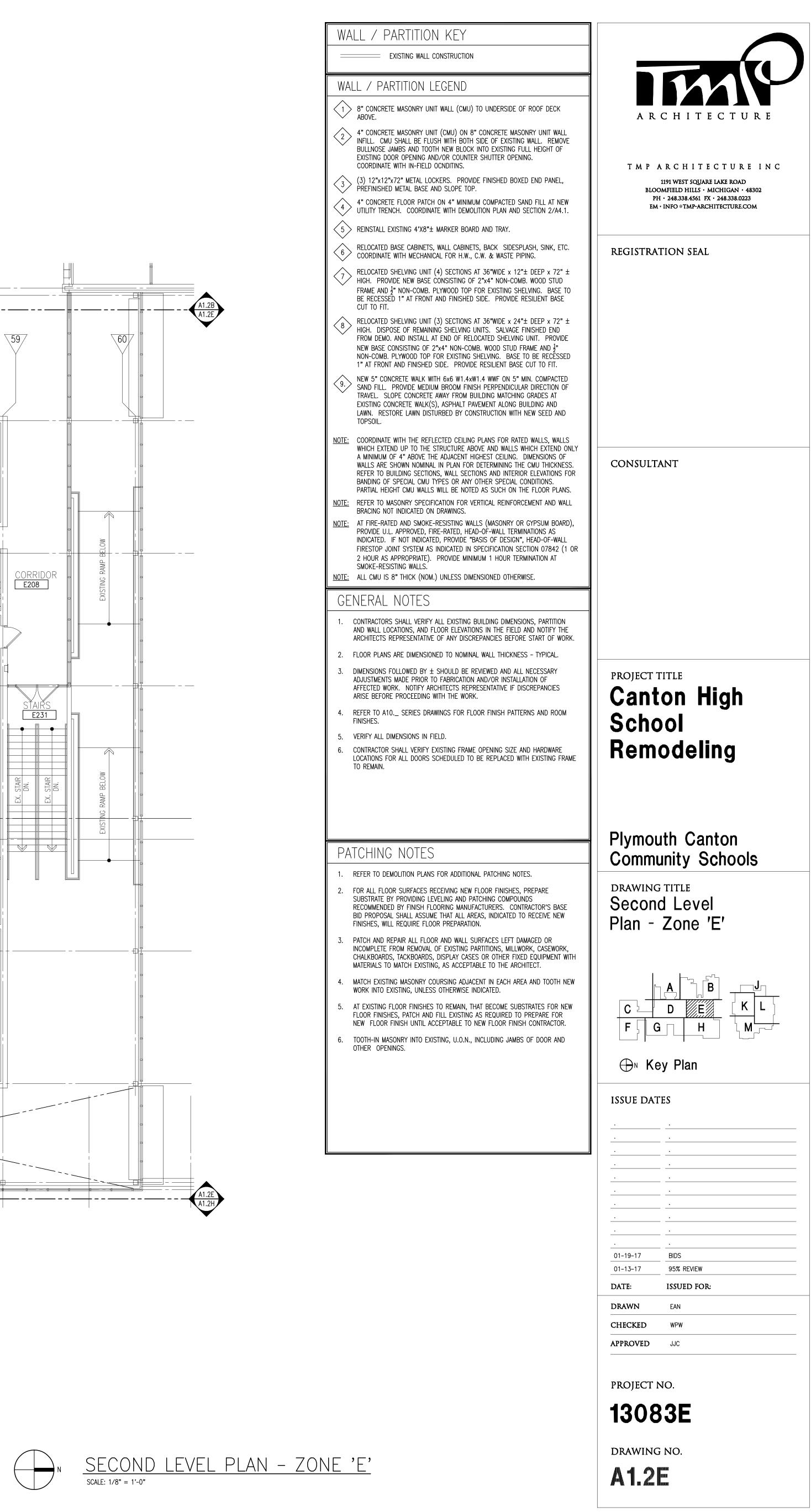
ELGENE INFL CONSIDER PLANE CONCRETE MASONEY UNIT WALL (CMU) TO UNDERSIDE OF ROOF DECK ACUCE: ** CONCRETE MASONEY UNIT (CMU) ON &* CONCRETE MASONEY UNIT WALL AMOVE. ** CONCRETE MASONEY UNIT (CMU) ON &* CONCRETE MASONEY UNIT WALL AMOVE. ** CONCRETE MASONEY UNIT (CMU) ON &* CONCRETE MASONEY UNIT WALL AMOVE. ** CONCRETE MASONEY UNIT (CMU) ON &* CONCRETE MASONEY UNIT WALL AMOVE. ** CONCRETE MASONEY UNIT (CMU) ON &* CONCRETE SUBTINE CLUE DECKIT OF EVENTIME UNIT HER LOCKES. PROVIDE FINITE OFFNIG. ** CONCRETE FLOOR PATCH ON ** UNINALINA COMPACIES SAND FLL AT NEW ** CONCRETE FLOOR PATCH ON ** UNINALINA COMPACIES SAND FLL AT NEW ** CONCRETE FLOOR PATCH ON ** UNINALINA COMPACIES SAND FLL AT NEW ** PROVIDE MASONEY UNIT (DA SCITIONA ** UNINALINA COMPACIES SAND FLL AT NEW ** PROVIDE MASONEY UNIT (DA SCITIONA ** UNINALINA COMPACIES SAND FLL AT NEW ** PROVIDE MASONEY UNIT (DA SCITIONA ** UNINALINA COMPACIES SAND FLL AT NEW ** PROVIDE MASONEY UNIT (DA SCITIONA ** UNINALINA COMPACIES SAND FLL AT NEW ** PROVIDE MASONEY UNIT (DA SCITIONA ** UNINALINA COMPACIES SAND ** PROVIDE SAND TOP TOP COMPOND TOP TOP DETAILS, SANDAE ** INNOHO SUN ** PROVIDE SANDAE NON-COMPACIES SANDAE ** UNINALINA SANDAE ** UNINALINA SANDAE ** UNINALINA ** PROVIDE SANDAE ** UNINALINA COMPACIES SANDAE ** UNINALINA	WALL / PARTITION LEGEND	WA	LL / PARTITION KEY EXISTING WALL CONSTRUCTION
 In CONCRETE MASONEY UNIT WALL (CAUL) TO UNDERSIDE OF ROOF DECK ABOVE. In CONCRETE MASONEY UNIT WALL (CAUL) TO UNDERSIDE OF ROOF DECK MASONE. IN CONCRETE MASONEY UNIT WALL (CAUL) TO UNDERSIDE OF ROOF DECK MASONE UNIT WALL DECKNIME MASONE VIEW DESTINE FULL REMAYE BULLINGS: LAMES AND TOOTH WAT BLOOK NO DESTINE FULL REMAY OF COORDANIE WITH HARD AD OLD WALL BECKNING DESTINE FULL REMAY INFERD DECKNING WALL DECKNIS. PROVIDE FINISHED BOXED END PANEL, PARTINGHED WEIL MASE AND SLOPE TEP. IN CONTRACTER LOOK PARTON ON INFERD CONTRACTED SAND FILL AT NEW UTILITY TERNEH. COORDINATE WITH DEMOLITORING PLAN AND SECTION 27A-1. REINSTALL DOSTING 4783° ± MARKER BOARD AND TRX. REINSTALL DOSTING 4783° ± MARKER BOARD AND TRX. RELICATED BASE CARRETS, WALL CARRETS, BACK SIDESTHASS 74-72 ± DEEP x 72° ± MASONE FULL DESTING 4783° ± MARKER BOARD AND TRX. RELICATED SHELMING UNIT (A) SECTIONS AT JS*MEE X 24°± DEEP x 72° ± MASONE FULL BASE CARRETS, WALL CARRETS, BACK SIDESTHASS 74-72 ± MASONE FULL BASE CARRETS, WALL CARRETS, BACK SIDESTHASS 74-72° ± MASONE FULL BASE CARRETS, WALL CARRETS, BACK SIDESTHASS 74-72° ± MASONE FULL BASE CARRETS, WALL CARRETS, BACK SIDESTHASS 74-77° ± MASONE FULL BASE CARRETS, WALL CARRETS, BACK SIDESTHASS 74-77° ± MASONE FULL BASE CARRETS, BACK SIDESTHASS 74-700-700 TO DESTING CONSERT UNIT (A) SECTIONS AT JS*MEE X 24°± DEEP x 72° ± MASONE FULL BASE CARRETS WALLS, MASONE FULL BASE CONTON WALL BASE CONSERTING OF 2-44° WALL-CARRETS, BACK SIDESTHASS 74-700-700 WALL BASE CONSERTING OF 2-44° WALL-CARRETS, BACK SIDESTHASS 74-700-700 WALL BASE CONSERTING OF 2-44° WALL-CARRETS, BACK SIDESTHASS 74-700-700 WALL BASE CONSERTING OF 2-44° WALL SANDER FULL BASE FULL WALL SANDE FULL BASEN OF DESTING SING WALLS, BASE CONTON OF MASING MASONE OF PROVIDE DESTING SIGNALING, BASE CONTON OF MASING MASONE DISTONE DESTING SIGNALING DISTONE FULL SIDESTING CONCRETE WALKS, SIDEAR AND AND SIDE FUELD SIDEAR TO PROVIDE DATE DAS TO PROVIDE TO RE	 In CONCRETE MASONEY UNIT WALL (CAU) TO UNDERSEE OF ROOF DECK ABOVE. In CONCRETE MASONEY UNIT (UNIT WALL (CAU)) TO UNDERSEE OF ROOF DECK ABOVE. In CONCRETE MASONEY UNIT (UNIT WALL (CAU)) ON 8 - CONCRETE MASONEY UNIT WALL REMAYE BULLINGS LAMES AND TOOTH HAVE BLOCK IND DESTING THAL REMAYE BULLINGS LAMES AND TOOTH HAVE BLOCK IND DESTING THAL REMAYE BULLINGS LAMES AND TOOTH HAVE BLOCK IND DESTING THAL REMAYE BULLINGS LAMES AND TOOTH HAVE BLOCK IND DESTING THAL REMAYE BULLINGS LAMES AND TOOTH HAVE BLOCK IND DESTING THAL REMAY INTERTIGUES UNIT (IN SECTION AND THAT AND SECTION 27A.1. IS 17:17:17:17:17:17:17:17:17:17:17:17:17:1		
 AGOVE AGOVE A CONCECTE MASCHAT UNIT (CMU) ON & CONCENTER MASCHAT UNIT WALL MALL CAU SHALL BE FLUSH WITH BOTH SRC OF EXSTING WALL RAMAYE DESTING DOOR OPENICA MODICE COUNTER SHUTTER OPENING. COORDINATE WITH INFIELD CONTINUE. (1) (12/12/27/27 WITHL LOCKIES, PRODUC FINISHED BOXED EDD PANEL, MERTINSHED WITH AREA AND SLOPE TOP. (2) (12/12/27/27 WITHL LOCKIES, PRODUC FINISHED BOXED EDD PANEL, MERTINSHED WITH AREA AND SLOPE TOP. (3) CONTINUE TO ANY ANNUAL COMPACTED SAND FILL AT NEW UTULTY TRENCH. CORRIGHTS, WALL CARRETS, BACK SOESTIALS, SINK, ETC. (3) REINSTALL DESTING 4/X87± MARCER BOXED AND TRAY. (4) REINSTALL DESTING 4/X87± MARCER BOXED AND TRAY. (5) RELOCATED BASE CARRETS, WALL CARRETS, BACK SOESTIALS, SINK, ETC. (5) RELOCATED SHELVING UNIT (3) SECTIONS AT 35*WICE x 12*1 BEEP x 72* ± HIGL. DESCEND 1/ AT FROM AND FINISHED SUE. FROMDE RESULENT BASE CUT TO FT. (5) RELOCATED SHELVING UNIT (3) SECTIONS AT 35*WICE x 24*1 BEEP x 72* ± HIGL. DESCEND 1/ AT FROM AND FINISHED SUE. FROMDE RESULENT BASE CUT TO FT. (6) RELOCATED SHELVING UNIT (3) SECTIONS AT 35*WICE x 24*1 BEEP x 72* ± HIGL. DESCENT GOVER YMALWARE HONG TO FTOR CHARGE SUELWING. BASE TO BE RECESSED 1/ AT FROM AND FINISHED SUELWING UNIT. PROVIDE WIS BOOD CONSTRUCT AND HONG TO FTOR SUELWING SUELWING. BASE TO BE RECESSED 1/ AT FROM AND FINISHED SUELWING SUELWING BASE TO FT. (7) REAL SLOPE CONNECTE WARY FROM BULLING MARCHING SUELWING HASE CUT TO FT. (7) REAL FLOPPONE THE SUELWING SUELWING AND DUTING MARCHING AND DUTING MARCHING SUELWING AND TO THE STRUCTURE MARCHING SUELWING AND DUTING MARCHING AND DUTING MARCHING AND DUTING MARCHING AND DUTING MARCHING AND DUTI	 Adove. Adove. Adove. Adove. Adove. Adove. Adove. Adove. Adove. Advection of the statistic of the statistis of the statistic of the statistic of the statistic of thes	WAL	
 WILL CAU SINULE RUSH WITH BOTH SEC OF EXISTING FULL REPORT OF EVENTS OF CLUETED OF POINTS. WILL CAU SINULE REFLAIS ADDRESSION FULL REPORT OF EXISTING FULL REPORT OF A COURSE F. FORDING FURSHED BOXED END PANEL, FROM SUBJECT TOP. COURDINATE WITH MEED COORDINATE WITH BEAUDTION FAM. ADD SECTION 274.1. REINSTALL EXISTING FY8'S MARKER BOARD AND TRAY. REILCOARD SHELVING UNT (4) SECTIONS AT 36 WIDE X 12'4 DEFX X7' ± HEIL, FROM ENDS SHE CAN'ELSING FY8'S MARKER BOARD AND TRAY. REILCOARD SHELVING UNT (4) SECTIONS AT 36 WIDE X 12'4 DEFX X7' ± HEIL, FROM ENDS SHELVING UNT SALE AND STANDE X 24'4 DEFX X7' ± HEIL, FROM ENDS SHELVING UNT SALE AND STANDE X 24'4 DEFX X7' ± HEIL, FROM ENDS SHELVING UNT SALE AND STANDE X 24'4 DEFX X7' ± HEIL, FROM ENDS SHELVING UNT SALE AND STUDY SALE AND J' WONDO DO FOR EXISTING SHELVING. BASE OD EXISTING SHELVING, BASE EXIST OD THAN AND STUDY SHELVING SHELVING SHELVING, BASE OD AND	 APPL CAU SMALL BE FLUSH WITH BOTH SIZE OF EXISTING PLAL HEREN OF EXISTING PLAL HEREN OF EXISTING FLUX HEREN OF A CONCERTER FLUX OR COMPACTED SAND FLUX TI NEW OTHER THE DEVOLUTION FLUX HERE EXISTING FLUX HEREN OF A CONCENTER HIT DEVOLUTION FLUX HERE EXISTING FLUX HEREN OF A CONCENTER HIT DEVOLUTION FLUX HEREN EXISTING FLUX HEREN OF A CONCENTER HEREN OF A CONCENTRAL /li>		ABOVE.
 PREPRINSIPED METAL BASE AND SLOPE TOP. 	 WEENINGLE MELL ASSE AND SLOPE TOP. 	2>	INFILL. CMU SHALL BE FLUSH WITH BOTH SIDE OF EXISTING WALL. REMOVE BULLNOSE JAMBS AND TOOTH NEW BLOCK INTO EXISTING FULL HEIGHT OF EXISTING DOOR OPENING AND/OR COUNTER SHUTTER OPENING.
 UTILITY TRENCH. COORDINATE WITH DEMOLITION PLAN AND SECTION 2/44.1. REINSTALL EXISTING 4/30°± MARKER BOARD AND TRAY. RELOCATED SHELL ROLETING 4/30°± MARKER BOARD AND TRAY. RELOCATED SHELLING UNIT (4) SECTIONS AT 35°M0E x (2± DEEP x 72°± HIGH. PROVIDE NUT (4) SECTIONS AT 35°M0E x (2± DEEP x 72°± HIGH. PROVIDE NUT (4) SECTIONS AT 35°M0E x (2± DEEP x 72°± HIGH. PROVIDE NUT (4) TRANSFERSION SHELLING UNIT (4) SECTIONS AT 35°M0E x (2± DEEP x 72°± HIGH. PROVIDE TO FIG. PROVIDE TO FIG. SESTING SHELLING UNIT. PROVIDE TO FIG. RELOCATED SHELVING UNIT (3) SECTIONS AT 35°M0E x (2± DEEP x 72°± HIGH. PROVIDE INFORMO SHELVING UNIT. SEAVING THEME RAD 1' NON-ODUE PROVIDE ON THE ADARD SHELVING UNIT. PROVIDE INFO DESCO FIEMANING SHELVING INIT. PROVIDE INFO DESCO FIEMANING DE UNIT. PROVIDE UNIT. PROVIDE INFO DESCO FIEMANING DE UNIT. PROVIDE UNIT. PROVIDE UNIT DISTING THE ADJACENT HIGHEST CELLING SHE DISTING SHELVING UNIT. PROVIDE SHE SHE DISTING SHELVING UNIT. PROVIDE INFO DESCO FIEMANING DE UNIT. PROVIDE INFO DESCO FIEMANING DE UNITALIS MAL SUBJECTION OF HELEVING INFO DESCO FIEMANING DE UNIT DISTING THE ADJACENT NEL PROVIDE INFO DESCO FIEMANING DE UNIT DISTING SHELVING UNIT NEL PROVIDE INFO DESCO FIEMANING DE UNIT DISTING THE ADJACENT NEL PROVIDE INFO DESCO FIEMANING DE UNIT DISTING THE ADJACENT NEL PROVIDA DISTING SHELVING DISTING SHELVING DISTING	 UTILITY TRENCH. COORDINATE WITH DEMOLITION PLAN AND SECTION 2/44.1. REINSTALL EXISTING 4/36*2 MARKER BOARD AND TRAY. RELOCATED SHELVING UNIT (4) SECTIONS AT 36*WICE X (2*) EDEP X 72* ± HIGH. PROVIDE NEW BASE CONSISTING 72*4* NON-COME. WOOD STUD FRAME. AND 1 NON-COME. PLOYODO TOP FRAME. SINC. BLEX. TO ERROR 10.4 1 NON-COME. PLOYODO TOP FRAME. SINC. SILELING. BASE TO ERROR 2014 1 NON-COME. PLOYODO TOP FRAME. SILENT BASE. CUTT OF FR. RELOCATED SHELVING UNIT (3) SECTIONS AT 36*WICE X (2*) EDEP X 72* ± HIGH. PROVIDE NEW BASE CONSISTING SHELVING. UNIT. PROVIDE REPORT OF BLAYNOU UNIT (3) SECTIONS AT 36*WICE X (2*) EDEP X 72* ± HIGH. DEPOS OF RELIAND. SHELVING. UNIT. SILELING BASE CUTT OF FR. RELOCATED SHELVING UNIT (3) SECTIONS AT 36*WICE X (2*) DEEP X 72* ± HIGH. DEPOS OF RELIAND. SHELVING. UNIT. PROVIDE REPORT DEPOS OF RELIAND. HIGH SHELVING. BASE TO BE REGISSED I* 1* AT FRONT AND ENSINED SIDE. PROVIDE RESILENT BASE CUTT OF FT. TATE IS LOPE CONCRETE WALK (3), SHELL AND REST OF LIAND. NOT CONSTITUTIONE RESTORE LAWN ID ISTURATED WAY FROM BUILDING MAICHING REPORT OF TRAVEL ISOF CONCRETE WALK (3), SHELL AND RANGE RESTORE DATE OF TRAVEL SUPPORT DEPOS OF TRAVEL RESTORE UNIT NEW SECOND OF HIGH. SHELL PROVIDE WITH THE ADJACENT HIGHEST CELLIAN DIAGONY A MINIMAM OF 4* ADJOY THE ADJACENT HIGHEST CELLIAN DIAGONY PROVIDE UL. APPROVED, REFERENCE WALK SHULLS. MALLS MILLES TREPER ON BUILDING SECOND AND ANILS MEETING ON THE MICH BERNEL DUAL DATE SHELVING. HEAD AND ALLS, MALLS MILLES AT REPER CHARGE MICH ADJACENT HIGHEST CELLIAND OF HIGH. HEAD SECONDS, WALLS SECTIONS AND MILLES DIMENSIONED OF PLANS. MOTE AT REFERENCE ADJACENT HEAD SECOND OF PLANS. MILLES AT REFERENCE ADDATES. MILLES AT REFERENCE ADJACENT HEAD ADJACENT HEAD ADJACENT NON ADJACE	$\sqrt{3}$	
 RELOCATED BASE CABINETS, WALL CABINETS, BACK SIDESPLASH, SINK, ETC. COORDINATE WITH MECHANICAL FOR H.W., C.W. & WASTE PIRNG. RELOCATED SHELING UNIT (4) SECTIONS AT 39 YING X 12* DEEP X 72* ± RELOCATED SHELING UNIT (3) SECTIONS AT 39 YING X 12* DEEP X 72* ± RELOCATED SHELING UNIT (3) SECTIONS AT 39 YING X 12* DEEP X 72* ± RELOCATED SHELING UNIT (3) SECTIONS AT 39 YING X 12* DEEP X 72* ± RELOCATED SHELING UNIT (3) SECTIONS AT 39 YING X 12* DEEP X 72* ± RELOCATED SHELING UNIT (3) SECTIONS AT 39 YING X 12* DEEP X 72* ± RELOCATED SHELING UNIT (3) SECTIONS AT 39 YING X 12* DEEP X 72* ± RELOCATED SHELING UNIT (3) SECTIONS AT 39 YING X 2005 DED 70 AT X 7000 EE YI AT ROM PLANDO TOP FOR EXATING SHELING, BLSC TO BE RECESSID 1* AT ROM PLANDO TOP FOR EXATING SHELING CONSTUT OF THE X 1000 YING PLAND PLAND PLAND DED RECESSID 1* AT ROM PLANDO TOP FOR EXATING SHELING CONSTUT OF THE X 1000 YING PLAND /li>	 RELOCATED BASE CABINETS, WALL CABINETS, BACK SIDESPLASH, SINK, ETC. COORDINATE WITH MECHANICAL FOR H.W., C.W. & WASTE PIPRIG. RELOCATED SHELING UNIT (4) SECTIONS AT 36 YMDE X 12* DEEP X 27 ± RELOCATED SHELING UNIT (3) SECTIONS AT 36 YMDE X 12* DEEP X 27 ± RELOCATED SHELING UNIT (3) SECTIONS AT 36 YMDE X 24* DEEP X 27 ± RELOCATED SHELING UNIT (3) SECTIONS AT 36 YMDE X 24* DEEP X 72 ± RELOCATED SHELING UNIT (3) SECTIONS AT 36 YMDE X 24* DEEP X 72 ± RELOCATED SHELING UNIT (3) SECTIONS AT 36 YMDE X 24* DEEP X 72 ± RELOCATED SHELING UNIT (3) SECTIONS AT 36 YMDE X 24* DEEP X 72 ± RELOCATED SHELING UNIT (3) SECTIONS AT 36 YMDE X 24* DEEP X 72 ± RELOCATED SHELING UNIT (3) SECTIONS AT 36 YMDE X 24* DEEP X 72 ± RELOCATED SHELING UNIT (3) SECTIONS AT 36 YMDE X 24* DEEP X 72 ± RELOCATED SHELING UNIT (3) SECTIONS AT 36 YMDE X 24* DEEP X 72 ± RELOCATED SHELING UNIT (3) SECTIONS AT 36 YMDE X 24* DEEP X 72 ± RELOCATED SHELING UNIT (3) SECTIONS AT 36 YMDE X 24* DEEP X 72 ± RELOCATED SHELING UNIT (3) SECTIONS AT 36 YMDE X 34* DEEP X 32* X PROM TAB 0 NASHEL X 16 PM 00 TERED X 30* YMTE X 30* YMTE AT 30* YMTE AT 30* YMTE X 30* YMTE AT 30* YMTE X 30* YMTE	$\langle 4 \rangle$	
 COORDINATE WITH MECHANICAL FOR H.W., C.W. & WASTE PIPING. PELCOATED SHELVING UNIT (4) SECTIONS AT 36*WIDE X12* DEEP X 72* ± HELEOATED SHELVING UNIT (3) SECTIONS AT 36*WIDE X12* DEEP X 72* ± HELEOATED SHELVING UNIT (3) SECTIONS AT 36*WIDE X12* DEEP X 72* ± HELEOATED SHELVING UNIT (3) SECTIONS AT 36*WIDE X2* DEEP X 72* ± HELEOATED SHELVING UNIT (3) SECTIONS AT 36*WIDE X2* DEEP X 72* ± HELEOATED SHELVING UNIT (3) SECTIONS AT 36*WIDE X2* DEEP X 72* ± HELEOATED SHELVING UNIT (3) SECTIONS AT 36*WIDE X2* DEEP X 72* ± HELEOATED SHELVING UNIT (3) SECTIONS AT 36*WIDE X2* DEEP X 72* ± HELEOATED SHELVING UNIT (3) SECTIONS AT 36*WIDE X2* DEEP X 72* ± HELEOATED SHELVING UNIT 30* DEEP XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	 COORDINATE WITH MECHANICAL FOR H.W., C.W. & WASTE PIPING. PELCOATED SHELVING UNIT (4) SECTIONS AT 36*WIDE X 12* DEEP X 2* ± HELCOATED SHELVING UNIT (3) SECTIONS AT 36*WIDE X 12* DEEP X 7* ± HELCOATED SHELVING UNIT (3) SECTIONS AT 36*WIDE X 24* ± DEEP X 7* ± HELCOATED SHELVING UNIT (3) SECTIONS AT 36*WIDE X 24* ± DEEP X 7* ± HELCOATED SHELVING UNIT (3) SECTIONS AT 36*WIDE X 24* ± DEEP X 7* ± HELCOATED SHELVING UNIT (3) SECTIONS AT 36*WIDE X 24* ± DEEP X 7* ± HELCOATED SHELVING UNIT (3) SECTIONS AT 36*WIDE X 24* ± DEEP X 7* ± HELCOATED SHELVING UNIT (3) SECTIONS AT 36*WIDE X 24* ± DEEP X 7* ± HELCOATED SHELVING UNIT (3) SECTIONS AT 36*WIDE X 24* ± DEEP X 7* ± HELCOATED SHELVING UNIT (3) SECTIONS AT 36*WIDE X 24* ± DEEP X 7* ± HELCOATED SHELVING UNIT (3) SECTIONS AT 36*WIDE X 24* ± DEEP X 7* ± HELCOATED SHELVING UNIT 600 STUD TRAVE AD 2 NON-COME PLAYODO TOP FOR EXSTING SHELVING UNIT. PROVIDE ENDEROSCO TRAVENTIME SHELVING UNITS. SNUARE FINISHELE AD 2 NON-COME PLAYODO TOP FOR EXSTING SHELVING UNIT. PROVIDE HELCOATED PROVIDE MEDIUM BROOM FINISH CALLENT AGO EXTID TAVEL 1. SLOPE CONCRETE AWX FOOD BUILDING MATCHING GRADES AT EXSTING CONCRETE WALK (5), SHEAT 27* WALK CAME AD 0 HELDOATED ON TO THE STRUCTURE ADOVE AND MULTIS BECOME OF WALLS ARE SNOWN NOMMUL. IN PLAY FOR DETERMINION FOR OTHER 2000 NUT A MINIMUM OF 4* 4000F THE ADALCRIT HIGHENT ALLONG DIMENSIONS OF WALLS ARE SNOWN NOMMUL. IN PLAY FOR DETERMINION SCIENCED AND TROVE A HELCOATED AD 30* STRUCTURE ADD TROVE STRUCTURE ADD 0 AND CAME ADD TO THE STRUCTURE ADD TO THE FLAYODA ON ALL A MILLS ARE SNOWN NOMMUL. IN PLAY FOR DETERMINION SCIENCED AND HELCOATED LEVTRONS FOR BROWNE OF SPECIAL CAU TYPES OF XWX THE NEE XUEL CAUDITIONS. NOTE: AT FLEXE-ATTEL ADD 30* SNEE-FECTIONE ADD INTO THE ADD ADD AND A MINIMUM OF 4* 4000F FE ADALCRIT HIGHEN ADD FOR THE ADD ADD THE ADD ADD ADD THE XED ADD ADD THE ADD ADD ADD THE ADD ADD ADD THE XED ADD ADD THE ADD ADD ADD THE XED ADD ADD ADD THE XED ADD ADD THE ADD ADD ADD THE XED XED ADD ADD ADD THE XED ADD ADD THE A	5	REINSTALL EXISTING 4'X8"± MARKER BOARD AND TRAY.
 Wich, PROVER NUM BASE CONSTRUCTION OF 2*4* NON-COME, WOOD STUD Rewit AND * NON-COME, PRIVADO TO PO FOR ESTING SHEUMEN, BASE TO ER RECESSED 1*14 RENT AND FINISHED SIDE. PROVIDE RESULENT BASE CUT TO FIT. RELOCATED SHELVING UNIT (3) SECTIONS AT 36*WIDE x 24*± DEEP x 72* ± HICH. DEPOSE OF REMAINING SHEUME UNITS. SALVAGE FINISHED END REVIEW. AND INSERD SIDE. PROVIDE RESULENT BASE CUT TO FIT. RELOCATED SHELVING UNIT (3) SECTIONS AT 36*WIDE x 24*± DEEP x 72* ± HICH. DEPOSE OF REMAINING SHEUME UNITS. SALVAGE FINISHED END REVIEW. AND INSERD SIDE. PROVIDE RESULENT BASE CUT TO FIT. NEW S* CONSTELS WAIX WITH BGG W1.4-WI .4 WIF ON 5* MIN. COMPACTED I* AT FRONT AND FINISHED SIDE. PROVIDE RESULENT BASE CUT TO FIT. NEW S* CONCRETE WAIX WITH BGG W1.4-WI .4 WIF ON 5* MIN. COMPACTED UNIT. RESTORE UNIT BIOLOGY W1.4-WI .4 WIF ON 5* MIN. COMPACTED UNIT. RESTORE UNIT BIOL REGULT AND FERDERULAL DIRECTION OF TRAKEL. SLOPE CONCRETE WAIX. YRON BIOLIDING MICHING GAUGES AT DUSIN. SLOPE CONCRETE WAIX. YRON BIOLIDING MICHING GAUGES AT UNIT. RESTORE UNIT BIOL TO THE STRUCTURE AROVE AND WAILS. WILLS WAILS WICH. RESTORE UNIT BIOL RESTORE VERTICAL REINFORCEMENT AND WAILS RECENT RO DISLOPE CONCRETE REVIEW. BASE CUT TO THE CUT THOUSES REFER TO BUILDING SCIENCING, WAIL SECTION OF REVIEWING NOT WAILS ARE SHOWN NORMAL. IN PLAN FOR DETERMINING THE CMU THOONESS. REFER TO MISIONEY SPECIFICATION FOR VERTICAL REINFORCEMENT AND WAIL BRACKING NOT HIDICATE DO DIAWINGS. NOTE: REFER TO MISIONEY SPECIFICATION FOR VERTICAL REINFORCEMENT AND WAIL BRACKING NOT HIDICATED. REVIEW WAILS (MISONY DR CYCENUM BANGO). PROVIDE ULL PROVIDE MISIONE DI THE YRON. IN COMPANY AND WAILS BRACKING AND PROVID TO DIAWINGS. NOTE: AT LICUW ULL APPROVED AT DIAWING SCIEND OF PAY WILL BRACKING AND PROVID DIAWINGS. NOTE: AT LICUW ULL PROVIDE MISING PROVIDE MISING PROVIDE MISING AND WAILS AND PROVID DIAWINGS. NOTE: AT LICUW ULL PROVIDE AND COMPANY AND WAILS BRACKING AND PROVI	 Wich, PROVER NUM BASE CONSTRUCTION OF 2*4* NON-COURE, MOOD STUD Rever, FADJ * MON-COME, PROVIDO TO POR ENSINGS SHEUMANE, BASE TO ER RECESSED 1*1 AT ROWT AND FINISHED SIDE. PROVIDE RESULENT BASE CUT TO FIT. RELOCATED SHELMING UNIT (3) SECTIONS AT 36*WIDE x 24*± DEEP x 72*± HICH. DISPOSE OF REMAINING SHEUMING UNITS. SALVAGE FINISHED END ROW DANG. AND INSTALL TO RIO OF RELOCATED SHEUMING UNIT. REVOLD IN WASE CONSISTING OF 2*4* NON-COME. WOOD STUD FAME AND 2* NON-COME. DINSHED SIDE. PROVIDE RESULENT BASE CUT TO FIT. NEW S* CONCRETE WALK WITH BGG W11.4WH A WHF ON 5* MIN. COMPACTED OF TRAVEL. SLOPE COMPARE HAVE REVOLD RESULENT BASE CUT TO FIT. LIN. RESTORE LWAKE WITH BGG W11.4WH A WHF ON 5* MIN. COMPACTED OF TRAVEL. SLOPE COMPARE HAVE REVOLD REVOLUTION WITH NEW SEED AND UNIN. RESTORE LWAKE WITH BGG W11.4WH A WHF ON STIMUL GAMD LUNN. RESTORE LWAND ISTUREED BY CONSTRUCTION WITH NEW SEED AND TORSOL. NOTE: COORDINATE WITH THE REFLECTED CELLING PLANS FOR PATED WALLS, WALLS SCHWICK EXERCISE ON STATUS AND ANY OTHER SPECIAL CONDITIONS. PARTIL, HEALT CAULARY THE ADJACENT HEALT CELLING. DIMENSION SC WALLS ARE SHOWN NORMAL. IN PLAN FOR DETERMINING THE CAU THICKNESS. REFER TO MISSIONE'S SECTIONATION FOR VERTICAL RENFORCEMENT AND WALL BROCKING NOT DIACATED. PROVIDE "BASIS SUCH ON THE CUCH THANS. NOTE: REFER TO MISSIONE'S SECTIONATION FOR VERTICAL RENFORCEMENT AND WALL BROCKING NOT DIACATED. DIAGNOSTICAL RENFORCEMENT AND WALL BROCKING NOT DIACATED. DIAGNOSTICAL RENFORCEMENT AND WALL BROCKING NOT DIACATED. DIAGNOSTICAL RENFORCEMENT AND WALL BROCKING SHIEL CONTONE VERTICAL RENFORCEMENT AND WALL BROCKING SHIEL CONTONE ON THE REVER AND ON THE CAUL AND WALL BROCKING SHIEL CONTONE VERTICAL RENFORCEMENT AND WALL BROCKING SHIEL CONTONE DIAGNOSTICAL REVORD THE CAUCH THEORY PROTONE DIAGNOSTICAL PROVIDE THEORY THE CAUCH THEORY AND WALL BROCKING SHIEL CONTONE DIAGNOSTICAL REVORD THE CAUCH AND WALL BROCKING SHIEL CONTONE SHIEL CONTONE CONTONICING CONTONICS. NOTE: ALL	6	
 High, DisPose OF REMAINING SHELVING UNITS, SALVAGE FINISHED END FROM DECO. AND INSTAL AF NO OF REJUNKE ONE-CORE SHELVING UNIT. PROVIDE INNON-COME. PLYMOOD TO FER EXISTING BHUTWIS. RASE TO BE RECESSED 1* AT FRONT AND FINISHED SIDE. PROVIDE RESULENT BASE CUT TO FIT. SING 5* CONCRETE WALK WITH B&& W1.4-W14 OW TO 5* MIN. COMPACTED DISPOSIL. PROVIDE USUBM RROW FINISH PERPENDICULUR DISCTONO OF TRAVEL SLOPE CONCRETE WALK WITH B&& W1.4-W14 OW TO 5* MIN. COMPACTED DISPOSIL. SLOPE CONCRETE WALK WITH B&& W1.4-W14 OW TO 5* MIN. COMPACTED DISPOSIL. SLOPE CONCRETE WALK WITH B&& W1.4-W14 OW TO 5* MIN. COMPACTED DISPOSIL. NOTE: COORDINATE WITH THE REFLECTED CELING PLANS FOR RATED WALLS, WALLS WHICH COTEPUL UP TO THE STRUCTURE ABOVE AND WALLS WHICH CONCENT AND WHICH COTEPUL UP TO THE STRUCTURE ABOVE AND WALLS WHICH CONCENT AND WHICH COTEPUL UP TO THE STRUCTURE ABOVE AND WALLS WHICH CONTENT. A MINIMUM OF 4* ADVC THE AJALCENT HINGE THE CAUL TOTIONS. FOR BHORING OF SPECIAL CAUL TYPES DR ANY OTHER SPECIAL CONDITIONS. PRATILL HEGHT CAUL WALLS WILL BE NOTED AS SLUCH ON THE FLOOR PLANS. NOTE: AT FIFE-RATED AND SNOKE-RESISTING WALLS (WASONEY OR GYPSUM BOARD), PROVIDE UL, APPROVED, FIFE-FARED, HEAD-OF-WALL TERMINATIONS AS INDICATED. JE: NOT INDICATED ON DRWINNES. NOTE: AT LOW SOME WALLS. MOTE: AT LOW SOME WALLS (WASONEY OR GYPSUM BOARD), PROVIDE UL, APPROVED, FIFE-FARED, HEAD-OF-WALL TERMINATION AT SNOKE-RESISTING WALLS. MOTE: AT LOW SOME WALLS. MOTE: ALL CAU IS 8*T HICK (NOM.) UNLESS DIMENSIONED OTHERWISE. MOTE: ALL CAU IS 8*T HICK (NOM.) UNLESS DIMENSIONED OTHERWISE. MOTE: ALL CAU IS 8*T HICK (NOM.) UNLESS DIMENSIONED OTHERWISE. MOTE AND READINGSIONED TO NOMINAL WALL THEORESSIONES, PARTITION AND WALL LOCATIONS, NO FLOOR ELEVATIONS IN THE FIELD ADD. ADD OTHERWISE, NOTICE THERE ADD ADD TO MAND. MOTHENSIONS FOLLOWED BY THINK MACHTER WORK. REFER TO ALLOOR SURFACES RECEIVIN	 Hidh, DISPOSE OF REMAINING SHELVING UNITS, SALVAGE FINISHED END FROM DECO. AND INSTAL AF NO OF REJATING ACATED SHELVING UNIT. PROVDE IN NON-COMB. PUYNOOD TO FOR EXISTING DELYING. RASE TO BE RECESSED 1* AT FRONT AND FINISHED SIDE. PROVIDE RESULENT BASE CUT TO FIT. SING 5* CONCRETE WALK WITH 656 WI 1.4/#1.4 WIFK ON 5* MIN. COMPACTED DISPOSITUE FOR EXISTING ON 5* MIN. COMPACTED DISPOSITUE FOR EXISTING ON 5* MIN. COMPACTED DISPOSITUE SIDE. PROVIDE RECEIPTION OF MIN. COMPACTED DISPOSITUE. SLOPE CONCRETE WALK WITH 666 WI 1.4/#1.4 WIFK ON 5* MIN. COMPACTED DISPOSITUE. SLOPE CONCRETE WALK WITH 666 WI 1.4/#1.4 WIFK ON 5* MIN. COMPACTED DISPOSITUE. SLOPE CONCRETE WALK WITH 666 WI 1.4/#1.4 WIFK ON 5* MIN. COMPACTED DISPOSITUE. SLOPE CONCRETE WALK YROM BULLONG MATCHING GRADES AT EXISTING CORRECT WALK (S), SAPARL TARWEINT CAND. BULLONG SAD UNIV. RESTORE LAWN DISTURBED BY CONSTRUCTION WITH NEW SEED AND UNIV. RESTORE LAWN DISTURBED BY CONSTRUCTION WITH NEW SEED AND UNIV. RESTORE LAWN DISTURBED BY CONSTRUCTION WITH NEW SEED AND UNIV. A MINIMUM OF 4* ADVC THE AJALCOT HINGEST CELLING. DIDENSION SO REFER TO BULDING SCIENCIA, WALL SCIENCIA AND WALL BHALMING THE ADVC THAN A MINIMUM OF 4* ADVC THE AJALCOT HINGEST CELLING. DIDENSION SO REFER TO BULDING SCIENCIA, WALL SCIENCIA AND WALL BHACING NOT INDICATED ON DRAWINGS. NOTE: AT FIFE-RETED AND SOUCH PERSITING WALLS (WASONEY OR GYPSUM BOARD), PROVIDE UL, APPROVED, FIFE-ATED, HEAD-OF-WALL TERMINATION AT SUDKE-RESISTING WALLS. NOTE: AT LOW SO THICK (NOM.) UNLESS DIMENSIONED OTHERWISE. DIMENSIONES THICK (NOM.) UNLESS DIMENSIONED OTHERWISE. OTHER ATTER, ARE DRENOWED TO NOMINAL WALL THICKNESS - TYPICAL 1. CONTRACTORS SHALL VERTY ALL EXISTING BULLING DIMENSIONS, PARTITION AND WALL LOCATIONS, NO FLOOR ELEVATIONS IN THE FIELD ADD. OTHER WARK HAVE AND RUCK TO ADD ADD TO NESSALL ASSUME THAT ALL AREAS, INDICATED TO ADVC. FLOOR FLOOR SURFACES RECEIVING NEW FLOOR FINISHES, PREPARE SUBSTING FLOOR SURFACES RECE		HIGH. PROVIDE NEW BASE CONSISTING OF 2"x4" NON-COMB. WOOD STUD FRAME AND $\frac{1}{2}$ " NON-COMB. PLYWOOD TOP FOR EXISTING SHELVING. BASE TO BE RECESSED 1" AT FRONT AND FINISHED SIDE. PROVIDE RESILIENT BASE
 SAND FILL, PROVIDE NEDIUM PROVIDE TNISH PERFENDICULAR DIRECTION OF TRAVEL SLOPE CONCRETE WAY FROM BUILDING MATCHING GRADES AT EXISTING CONCRETE WAIK(S), ASPHALT PAYEMENT ALONG BUILDING AND LAWN. RESTORE LAWN DISTURGED BY CONSTRUCTION WITH NEW SEED AND TOPSOIL. NOTE: COORDINATE WITH THE REFLECTED CEILING PLANS FOR RATED WAILS, WAILS WHICH EXTERD UP TO THE STRUCTURE ABOVE AND WAILS WHICH EXTEND ONLY A MINIMM OF 4" ABOVE THE ADACEMT INDERSES. NOTE: COORDINATE WITH THE REFLECTED CEILING PLANS FOR RATED WAILS, WAILS WHICH EXTERD UP TO THE STRUCTURE ABOVE AND WAILS WHICH EXTEND ONLY A MINIMM OF 4" ABOVE THE ADACEMT INDERSES. NOTE: AT FEB YOR MAY OTHER SPECIAL CONDITIONS. FOR BANDING OF SPECIAL COMUTINES OR MAY OTHER SPECIAL CONDITIONS. FOR BANDING OF SPECIAL COMUTINES AND UPLAN FOR DETERMINING THE CWU THICKNESS. NOTE: REFER TO MASONRY SPECIFICATION FOR VERTICAL REINFORCEMENT AND WAIL BRACING NOT INDICATED ON DRAWINGS. NOTE: AT FERRET DA MASONG PROVIDE TWAILS (WALSONGY OR CYPSUM BOARD), PROVIDE ULL APPROVED, FIRE-ARED, HEAD-OF-WAIL TERMINATIONS AS INDICATED. JOINT STEM AS INDICATED IN SPECIFICATION SECTION OFA2(1 OR 2 HOUR AS APPROPRIAE). PROVIDE MINIMUM 1 HOUR TERMINATION AT SMOKE-RESISTING WAILS. NOTE: ALL CAU IS 8" THICK (NOM.) UNLESS DIMENSIONED OTHERWISE. GEENEERAL NOTES OOTITACTORS SHALL VERIFY ALL EXISTING BUILDING DIMENSIONS, PARTITION AND WAILL LOCATIONS, AND FLOOR TELEVATIONS IN THE FIELD AND NOTITY THE ARCHITECTS REPRESENTATIVE OF ANY DISCREPANCIES BEFORE START OF WORK. FLOOR PLANS ARE DIMENSIONED TO NOMINAL WAIL THICKNESS - TYPICAL DUENSIONS FOULD WED BY ± SIGULD BE REVERED AND ALL MEESSARY ADJUSTMENTS MADE PRIVE TO TAPARTICINA, WAILS THACKNESS - TYPICAL DUENSIONS FOR ALL VERIFY EXISTING FRAME OPENING SIZE AND HARDWARE LOCATIONS FOR ALL WERELY EXISTING FRAME OPENING SIZE AND HARDWARE LOCATIONS FOR ALL WERELY EXISTING PARAMINES. VERIFY ALL	 SAND FILL PROVIDE MEDIUM PROVIDE FINISH PERPENDICULAR DIRECTION OF TRAVEL SLOPE CONCRETE WAY FROM BUILDING MARCHING GRADES AT EXISTING CONCRETE WAIK(S), ASPHALT PAYEMENT ALONG BUILDING AND LAWN. RESTORE LAWN DISTURBED BY CONSTRUCTION WITH NEW SEED AND TOPSOL. NOTE: COORDINATE WITH THE REFLECTED CEILING PLANS FOR RATED WAILS, WALLS WHICH EXTEND UP TO THE STRUCTURE ABOVE AND WALLS WHICH EXISTING ONLY A MINIMM OF 4" ABOVE THE ADACEMT HIGHEST CEILING, DUMENSIONS OF WALLS ARE SHOWN NOMINAL IN PLAN FOR DETERMINING THE GWL THICKNESS. REFER TO BUILDING SECTIONS, WALLS CEITONS AND INTER ELEVITION STOR BANDING OF SPECIAL CAMU TYPES OR ANY OTHER SPECIAL CONDITIONS. PARTIAL HEIGHT CAMU WALLS WILLS WILLD EN NOTE AS SUCH ON THE FLOOR PLANS. NOTE: REFER TO MASONRY SPECIFICATION FOR VERTICAL REINFORCEMENT AND WALL BRACING NOT INDICATED ON DRAWINGS. NOTE: ALL CAMUS SPECIFICATION FOR VERTICAL REINFORCEMENT AND WALL BRACING NOT INDICATED ON DRAWINGS. NOTE: ALL CAMUS SPECIFICATION FOR VERTICAL REINFORCEMENT AND WALL BRACING NOT INDICATED, PROVIDE TASIS OF DESIGN", FLOO-OF-WALL INDICATED. JI NOT INDICATED, PROVIDE TASIS OF DESIGN", FLOO-OF-WALL INDICATED. JI NOT INDICATED, PROVIDE MAILS (WASONRY OR CYPSUM BOARD), PROVIDE ULL APPROVED, FIRE-HATED, MEDA-OF-WALL TERMINATION AT SUNKERESSTING WALLS. NOTE: ALL CAU IS 8" THICK (NOM.) UNLESS DIMENSIONED OTHERWISE. GENEERAL NOTES OUTRAS APPROPRINEJ. PROVIDE MINIMUM I HOUR TERMINATION AT SUNKERESSTING WALLS. NOTE: ALL CAU IS 8" THICK (NOM.) UNLESS DIMENSIONED TO HERWISE. GENERAL LOCATIONS, AND FLOOR ELEVATIONS IN THE FIELD AND NOTIFY THE ARCHITECTS REPRESENTATIVE OF ANY DISCREPANCIES BEFORE START OF WORK. FLOOR PROVED MAD FLOOR ELEVATIONS IN THE FUEL DA AD NOTIFY THE ARCHITECTS REPRESENTATIVE OF ANY DISCREPANCIES BEFORE START OF WORK. REFER TO DEMOLITION PLANS FOR ADDITIONAL PATCHING NOTES. FLOOR PLANS ARE DIMENSIONED TO NOMINAL	8	HIGH. DISPOSE OF REMAINING SHELVING UNITS. SALVAGE FINISHED END FROM DEMO. AND INSTALL AT END OF RELOCATED SHELVING UNIT. PROVIDE NEW BASE CONSISTING OF 2"x4" NON-COMB. WOOD STUD FRAME AND $\frac{1}{2}$ " NON-COMB. PLYWOOD TOP FOR EXISTING SHELVING. BASE TO BE RECESSED
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		6.	tooth-in masonry into existing, u.o.n., including jambs of door and



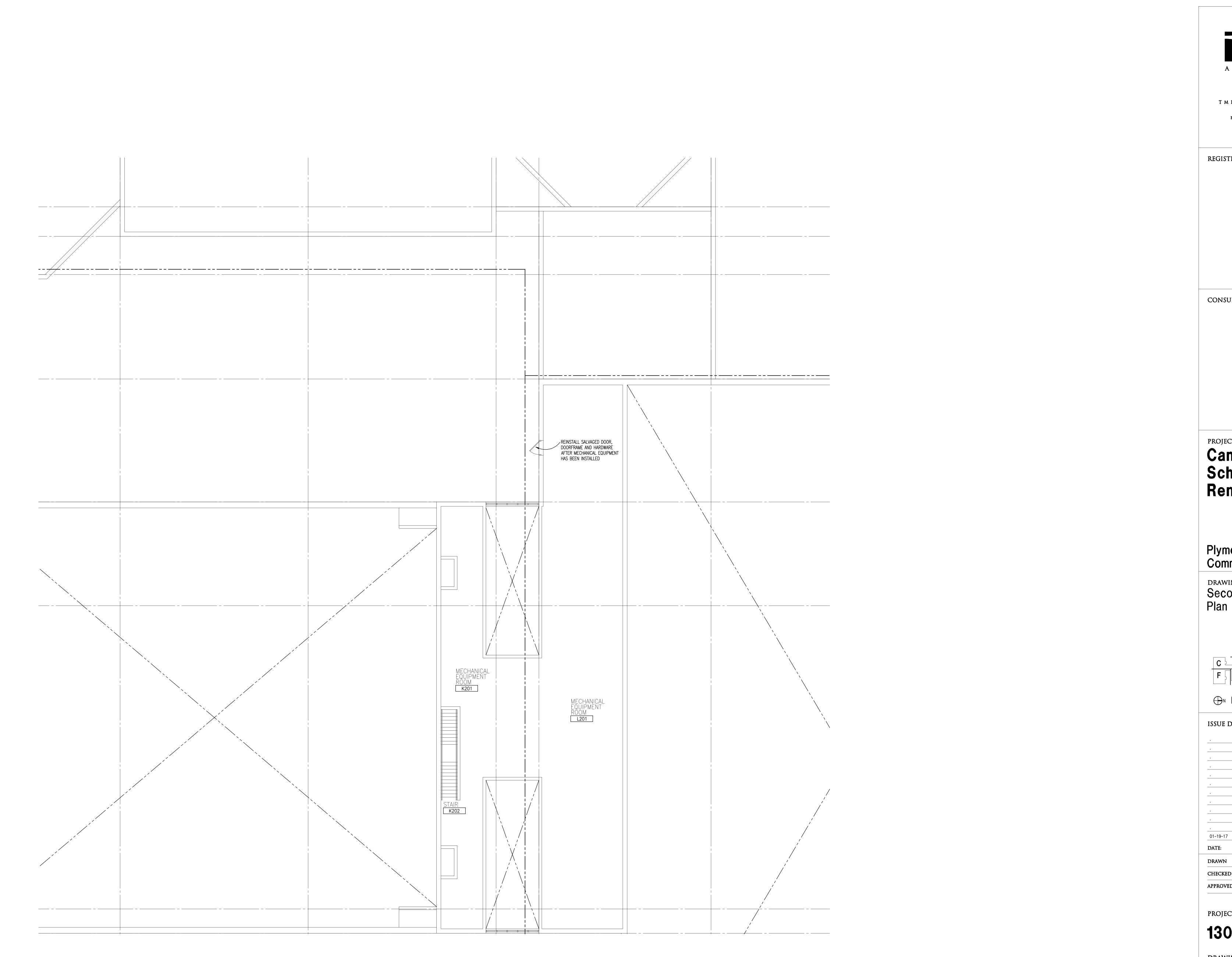
SECOND LEVEL PLAN - ZONE 'C'

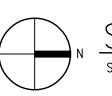








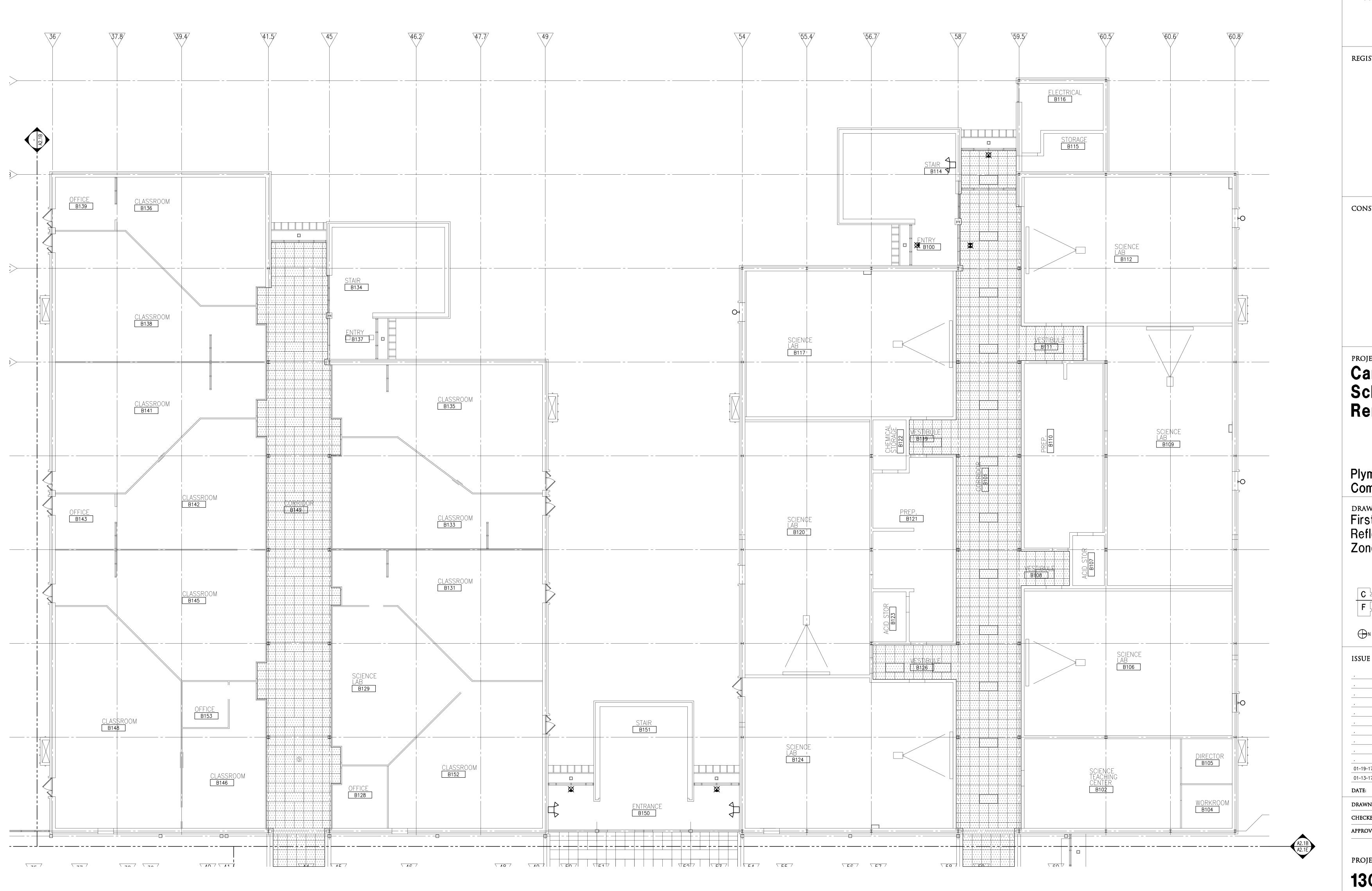




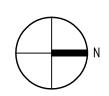






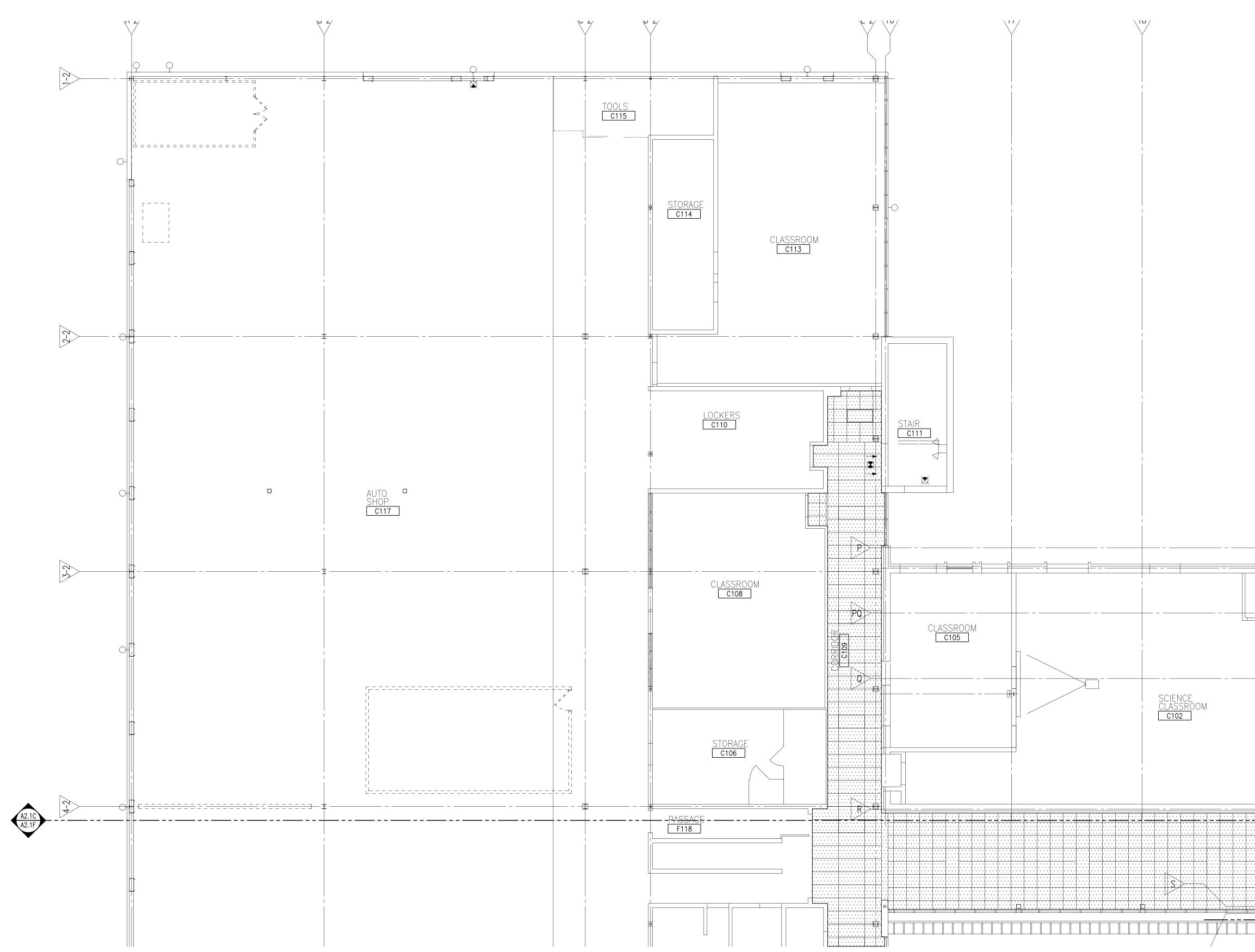


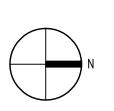
REFER TO OTHER REFLECTED CEILING PLANS FOR FIXTURE LEGEND, CEILING KEY, FINISH ABBREVIATIONS, & GENERAL NOTES



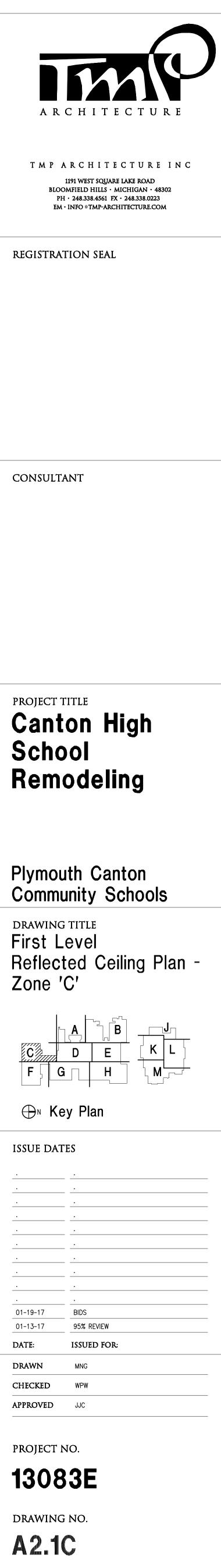
SCALE: 1/8" = 1'-0"

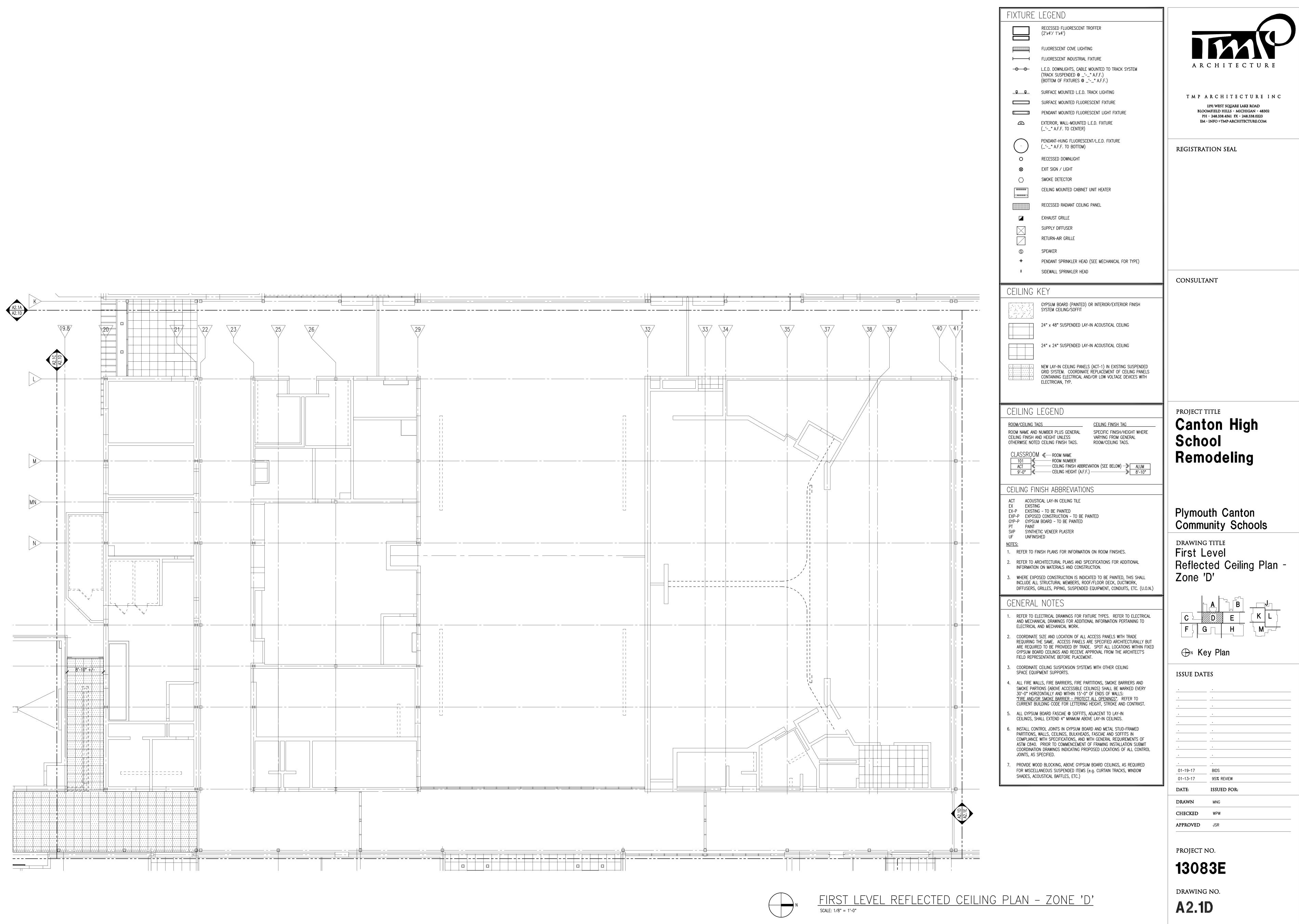


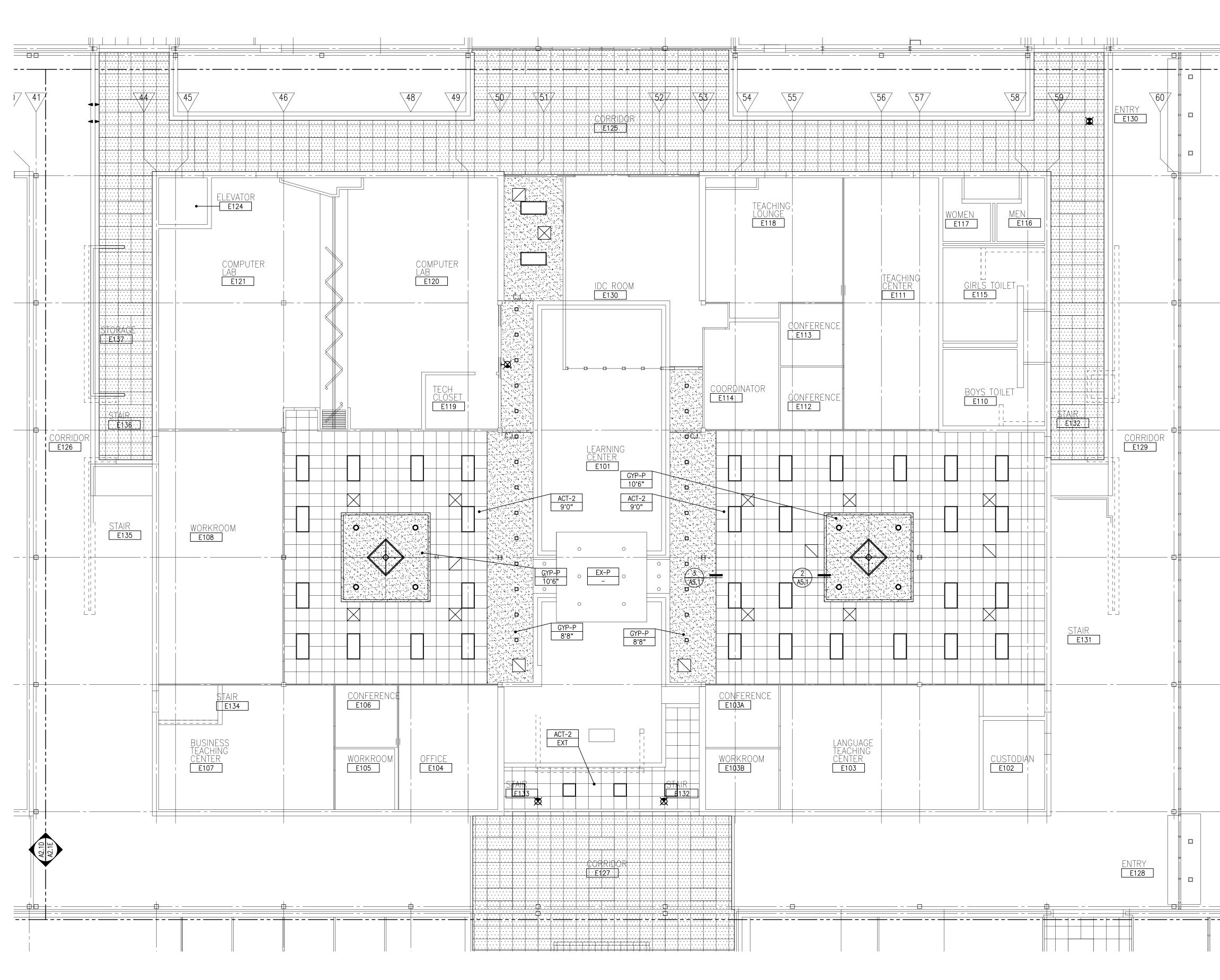


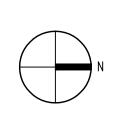


		FIXTURE LEGEND
		RECESSED FLUORESCENT TROFFER
		Image: Contract of the second seco
		FLUORESCENT INDUSTRIAL FIXTURE
		L.E.D. DOWNLIGHTS, CABLE MOUNTED TO TRACK SYSTEM (TRACK SUSPENDED @ _'" A.F.F.) (BOTTOM OF FIXTURES @ _'" A.F.F.)
		SURFACE MOUNTED L.E.D. TRACK LIGHTING
		SURFACE MOUNTED FLUORESCENT FIXTURE PENDANT MOUNTED FLUORESCENT LIGHT FIXTURE
		EXTERIOR, WALL-MOUNTED L.E.D. FIXTURE (_'" A.F.F. TO CENTER)
		PENDANT-HUNG FLUORESCENT/L.E.D. FIXTURE
		O RECESSED DOWNLIGHT
		⊗ EXIT SIGN / LIGHT
		SMOKE DETECTOR CEILING MOUNTED CABINET UNIT HEATER
		RECESSED RADIANT CEILING PANEL
		EXHAUST GRILLE
		SUPPLY DIFFUSER
		S SPEAKER
1.5.7	K	[™] SIDEWALL SPRINKLER HEAD
	19.8	GYPSUM BOARD (PAINTED) OR INTERIOR/EXTERIOR FINISH SYSTEM CEILING/SOFFIT
		24" x 48" SUSPENDED LAY-IN ACOUSTICAL CEILING
	A2.1D	24" x 24" SUSPENDED LAY-IN ACOUSTICAL CEILING
		NEW LAY-IN CEILING PANELS (ACT-1) IN EXISTING SUSPENDED GRID SYSTEM. COORDINATE REPLACEMENT OF CEILING PANELS CONTAINING ELECTRICAL AND/OR LOW VOLTAGE DEVICES WITH ELECTRICIAN, TYP.
		CEILING LEGEND
		ROOM/CEILING TAGS CEILING FINISH TAG ROOM NAME AND NUMBER PLUS GENERAL SPECIFIC FINISH/HEIGHT WHERE
		CEILING FINISH AND HEIGHT UNLESS VARYING FROM GENERAL OTHERWISE NOTED CEILING FINISH TAGS. ROOM/CEILING TAGS.
		ACT ← CEILING FINISH ABBREVIATION (SEE BELOW) → ALUM 9'-0" ← CEILING HEIGHT (A.F.F.) → 8'-10"
		CEILING FINISH ABBREVIATIONS act acoustical lay-in ceiling tile
		EX EXISTING EX-P EXISTING - TO BE PAINTED EXP-P EXPOSED CONSTRUCTION - TO BE PAINTED GYP-P GYPSUM BOARD - TO BE PAINTED
		GYP-P GYPSUM BOARD - TO BE PAINTED PT PAINT SVP SYNTHETIC VENEER PLASTER UF UNFINISHED
		NOTES: 1. REFER TO FINISH PLANS FOR INFORMATION ON ROOM FINISHES.
		2. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION ON MATERIALS AND CONSTRUCTION.
		DIFFUSERS, GRILLES, PIPING, SUSPENDED EQUIPMENT, CONDUITS, ETC. (U.O.N.)
		1. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE TYPES. REFER TO ELECTRICAL
		1. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE TYPES. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION PERTAINING TO ELECTRICAL AND MECHANICAL WORK.
		2. COORDINATE SIZE AND LOCATION OF ALL ACCESS PANELS WITH TRADE REQUIRING THE SAME. ACCESS PANELS ARE SPECIFIED ARCHITECTURALLY BUT ARE REQUIRED TO BE PROVIDED BY TRADE. SPOT ALL LOCATIONS WITHIN FIXED GYPSUM BOARD CEILINGS AND RECEIVE APPROVAL FROM THE ARCHITECT'S FIELD REPRESENTATIVE BEFORE PLACEMENT.
		3. COORDINATE CEILING SUSPENSION SYSTEMS WITH OTHER CEILING SPACE EQUIPMENT SUPPORTS.
		4. ALL FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTIONS (ABOVE ACCESSIBLE CEILINGS) SHALL BE MARKED EVERY
SCIENCE CLASSROO		30'-0" HORIZONTALLY AND WITHIN 15'-0" OF ENDS OF WALLS: <u>"FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS"</u> . REFER TO CURRENT BUILDING CODE FOR LETTERING HEIGHT, STROKE AND CONTRAST.
		5. ALL GYPSUM BOARD FASCIAE @ SOFFITS, ADJACENT TO LAY-IN CEILINGS, SHALL EXTEND 4" MINMUM ABOVE LAY-IN CEILINGS.
		6. INSTALL CONTROL JOINTS IN GYPSUM BOARD AND METAL STUD-FRAMED PARTITIONS, WALLS, CEILINGS, BULKHEADS, FASCIAE AND SOFFITS IN COMPLIANCE WITH SPECIFICATIONS, AND WITH GENERAL REQUIREMENTS OF
		ASTM C840. PRIOR TO COMMENCEMENT OF FRAMING INSTALLATION SUBMIT COORDINATION DRAWINGS INDICATING PROPOSED LOCATIONS OF ALL CONTROL JOINTS, AS SPECIFIED.
		7. PROVIDE WOOD BLOCKING, ABOVE GYPSUM BOARD CEILINGS, AS REQUIRED FOR MISCELLANEOUS SUSPENDED ITEMS (e.g. CURTAIN TRACKS, WINDOW
		SHADES, ACOUSTICAL BAFFLES, ETC.)
	







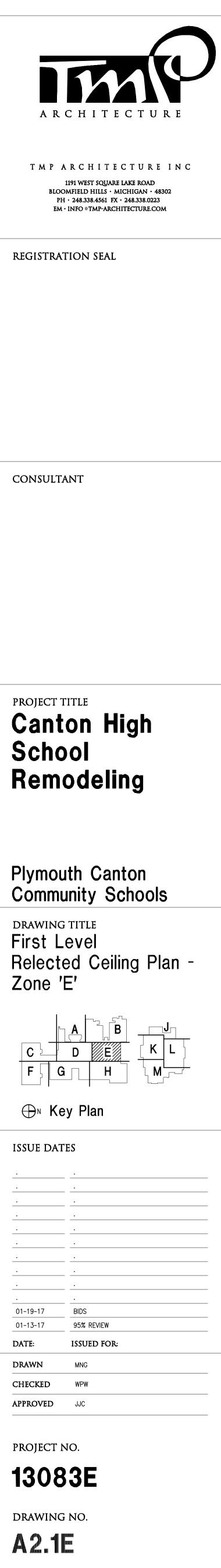


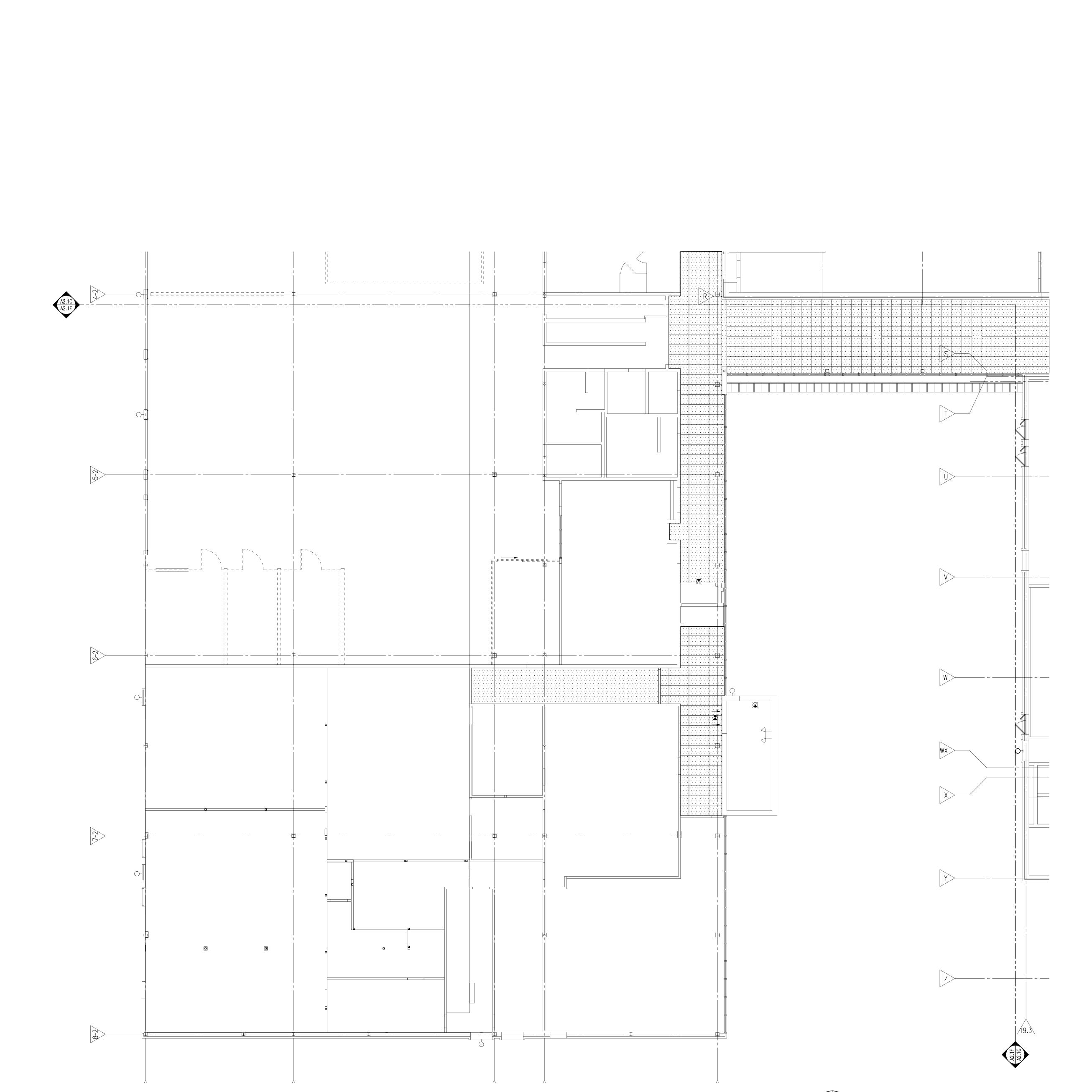


		FIXTURE LEGEND
		RECESSED FLUORESCENT TROFFER (2'x4'/ 1'x4')
		FLUORESCENT INDUSTRIAL FIXTURE
		(BOTTOM OF FIXTURES @ _'" A.F.F.)
		SURFACE MOUNTED FLUORESCENT FIXTURE PENDANT MOUNTED FLUORESCENT LIGHT FIXTURE
		EXTERIOR, WALL-MOUNTED L.E.D. FIXTURE (_'" A.F.F. TO CENTER)
		PENDANT-HUNG FLUORESCENT/L.E.D. FIXTURE (_'" A.F.F. TO BOTTOM)
		O RECESSED DOWNLIGHT
		 EXIT SIGN / LIGHT SMOKE DETECTOR
		CEILING MOUNTED CABINET UNIT HEATER
		RECESSED RADIANT CEILING PANEL
		EXHAUST GRILLE SUPPLY DIFFUSER
	K	RETURN-AIR GRILLE
	A2.1B A2.1E	 SPEAKER PENDANT SPRINKLER HEAD (SEE MECHANICAL FOR TYPE)
	•	▲ SIDEWALL SPRINKLER HEAD
		CEILING KEY
		GYPSUM BOARD (PAINTED) OR INTERIOR/EXTERIOR FINISH SYSTEM CEILING/SOFFIT
	L	24" x 48" SUSPENDED LAY-IN ACOUSTICAL CEILING
		24" x 24" SUSPENDED LAY-IN ACOUSTICAL CEILING
		NEW LAY-IN CEILING PANELS (ACT-1) IN EXISTING SUSPENDED
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	M	CEILING LEGEND
		ROOM/CEILING TAGS CEILING FINISH TAG ROOM NAME AND NUMBER PLUS GENERAL SPECIFIC FINISH/HEIGHT WHERE
		CEILING FINISH AND HEIGHT UNLESS VARYING FROM GENERAL OTHERWISE NOTED CEILING FINISH TAGS. ROOM/CEILING TAGS.
		CLASSROOM ← room name 101 ← room number ACT ← Ceiling finish abbreviation (see below) → Alum
	4	9'-0" CEILING HEIGHT (A.F.F.) <u>ALLOW</u> 8'-10"
	N	CEILING FINISH ABBREVIATIONS
		ACT ACOUSTICAL LAY-IN CEILING TILE EX EXISTING EX-P EXISTING - TO BE PAINTED EXP-P EXPOSED CONSTRUCTION - TO BE PAINTED
		GYP-P GYPSUM BOARD - TO BE PAINTED PT PAINT SVP SYNTHETIC VENEER PLASTER
		UF UNFINISHED <u>NOTES:</u>
	\sim	 REFER TO FINISH PLANS FOR INFORMATION ON ROOM FINISHES. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION ON MATERIALS AND CONSTRUCTION.
	P	 WHERE EXPOSED CONSTRUCTION IS INDICATED TO BE PAINTED, THIS SHALL INCLUDE ALL STRUCTURAL MEMBERS, ROOF/FLOOR DECK, DUCTWORK,
		DIFFUSERS, GRILLES, PIPING, SUSPENDED EQUIPMENT, CONDUITS, ETC. (U.O.N.)
		GENERAL NOTES 1. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE TYPES. REFER TO ELECTRICAL
		AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION PERTAINING TO ELECTRICAL AND MECHANICAL WORK.
		2. COORDINATE SIZE AND LOCATION OF ALL ACCESS PANELS WITH TRADE REQUIRING THE SAME. ACCESS PANELS ARE SPECIFIED ARCHITECTURALLY BUT ARE REQUIRED TO BE PROVIDED BY TRADE. SPOT ALL LOCATIONS WITHIN FIXED GYPSUM BOARD CEILINGS AND RECEIVE APPROVAL FROM THE ARCHITECT'S
	Q	3. COORDINATE CEILING SUSPENSION SYSTEMS WITH OTHER CEILING
		SPACE EQUIPMENT SUPPORTS.4. ALL FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND
		SMOKE PARTIONS (ABOVE ACCESSIBLE CEILINGS) SHALL BE MARKED EVERY 30'-0" HORIZONTALLY AND WITHIN 15'-0" OF ENDS OF WALLS: <u>"FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS"</u> . REFER TO
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	D	 6. INSTALL CONTROL JOINTS IN GYPSUM BOARD AND METAL STUD-FRAMED PARTITIONS, WALLS, CEILINGS, BULKHEADS, FASCIAE AND SOFFITS IN
	R	COMPLIANCE WITH SPECIFICATIONS, AND WITH GENERAL REQUIREMENTS OF ASTM C840. PRIOR TO COMMENCEMENT OF FRAMING INSTALLATION SUBMIT COORDINATION DRAWINGS INDICATING PROPOSED LOCATIONS OF ALL CONTROL
		JOINTS, AS SPECIFIED. 7. PROVIDE WOOD BLOCKING, ABOVE GYPSUM BOARD CEILINGS, AS REQUIRED
_	S	FOR MISCELLANEOUS SUSPENDED ITEMS (e.g. CURTAIN TRACKS, WINDOW SHADES, ACOUSTICAL BAFFLES, ETC.)
		<u></u>
	A2.1E A2.1H	
	— <t td="" ="" ¥<=""><td></td></t>	

FIRST LEVEL REFLECTED CEILING PLAN - ZONE 'E'

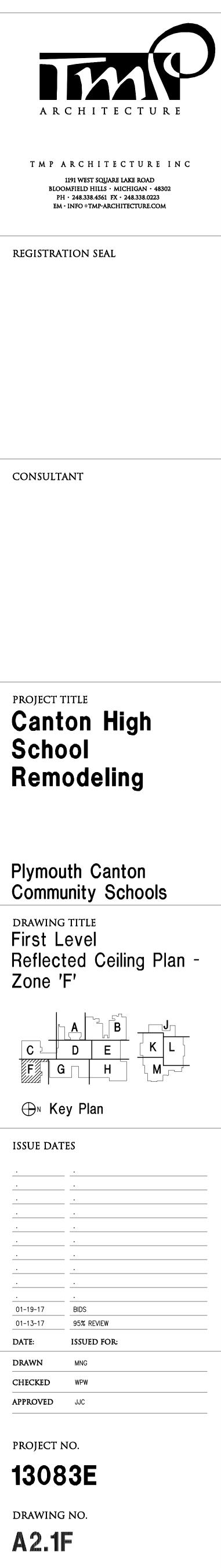
DRAWING NO.

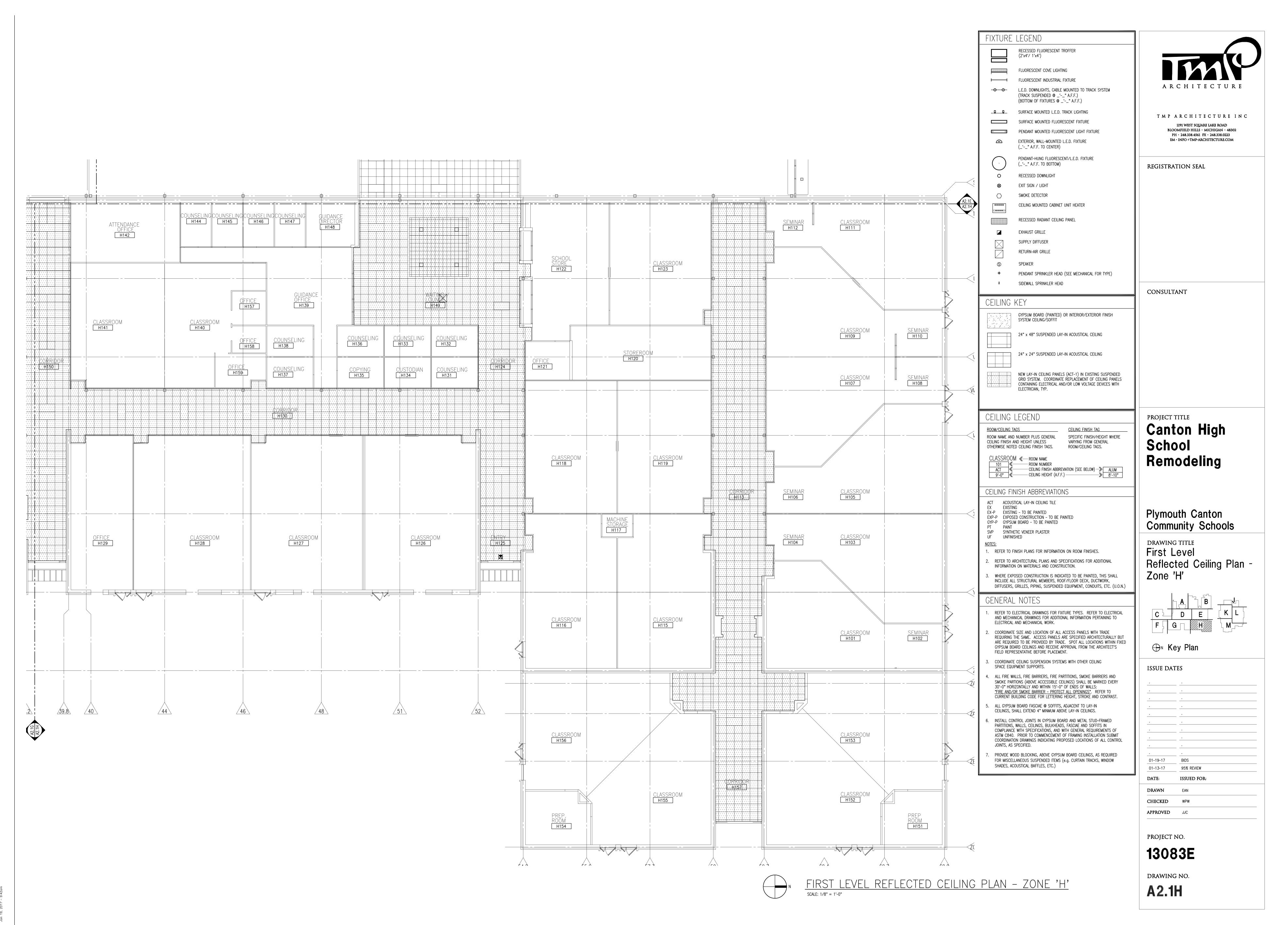


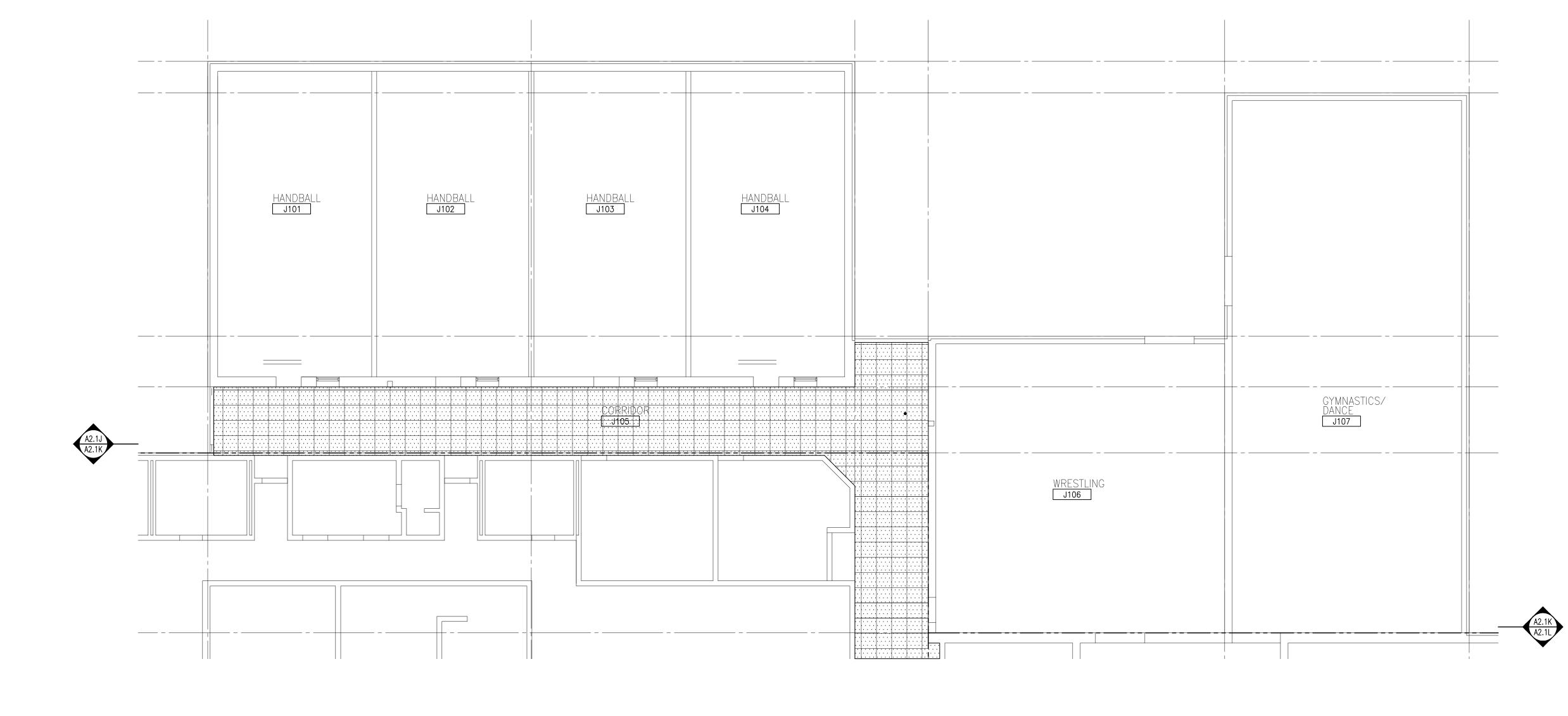


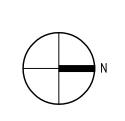
FIXTURE I	LEGEND	
	RECESSED FLUORESCENT TROFFER (2'x4'/ 1'x4')	
	FLUORESCENT COVE LIGHTING	
	FLUORESCENT INDUSTRIAL FIXTURE	
-00-	L.E.D. DOWNLIGHTS, CABLE MOUNTED TO TRACK SYSTEM (TRACK SUSPENDED @ _'" A.F.F.) (BOTTOM OF FIXTURES @ _'" A.F.F.)	A
<u> </u>	SURFACE MOUNTED L.E.D. TRACK LIGHTING	ТМ
	SURFACE MOUNTED FLUORESCENT FIXTURE	
	PENDANT MOUNTED FLUORESCENT LIGHT FIXTURE EXTERIOR, WALL-MOUNTED L.E.D. FIXTURE (_'" A.F.F. TO CENTER)	
	PENDANT-HUNG FLUORESCENT/L.E.D. FIXTURE (_'" A.F.F. TO BOTTOM)	REGIST
) 0	RECESSED DOWNLIGHT	
8	EXIT SIGN / LIGHT	
	SMOKE DETECTOR CEILING MOUNTED CABINET UNIT HEATER	
	RECESSED RADIANT CEILING PANEL	
	EXHAUST GRILLE	
	SUPPLY DIFFUSER	
	RETURN-AIR GRILLE	
S	SPEAKER	
ф д	PENDANT SPRINKLER HEAD (SEE MECHANICAL FOR TYPE) SIDEWALL SPRINKLER HEAD	
-		CONSU
CEILING K	(EY	_
	GYPSUM BOARD (PAINTED) OR INTERIOR/EXTERIOR FINISH SYSTEM CEILING/SOFFIT	
	24" x 48" SUSPENDED LAY-IN ACOUSTICAL CEILING	
	24" x 24" SUSPENDED LAY-IN ACOUSTICAL CEILING	
	NEW LAY-IN CEILING PANELS (ACT-1) IN EXISTING SUSPENDED GRID SYSTEM. COORDINATE REPLACEMENT OF CEILING PANELS CONTAINING ELECTRICAL AND/OR LOW VOLTAGE DEVICES WITH	
(ELECTRICIAN, TYP.	
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ROOM/CEILING TAC		
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ACT 🖌	──── ROOM NUMBER ──── CEILING FINISH ABBREVIATION (SEE BELOW) → <u>ALUM</u> ──── CEILING HEIGHT (A.F.F.) ───── 8 '-10"	
	ISH ABBREVIATIONS	-
EX EXISTING EX-P EXISTING	6 - TO BE PAINTED	Plym
) Construction – to be painted Board – to be painted	Com
SVP Synthet Uf Unfinish	ic veneer plaster Hed	DRAW
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	CHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL ON MATERIALS AND CONSTRUCTION.	Refle
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GENERAL	NOTES	-
AND MECHANI	ECTRICAL DRAWINGS FOR FIXTURE TYPES. REFER TO ELECTRICAL ICAL DRAWINGS FOR ADDITIONAL INFORMATION PERTAINING TO ND MECHANICAL WORK.	C
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5. ALL GYPSUM	LDING CODE FOR LETTERING HEIGHT, STROKE AND CONTRAST. BOARD FASCIAE @ SOFFITS, ADJACENT TO LAY-IN ALL EXTEND 4" MINMUM ABOVE LAY-IN CEILINGS.	
6. INSTALL CONT	rol Joints in Gypsum board and metal stud-framed	
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JOINTS, AS SI 7. PROVIDE WOO	PECIFIED. ID BLOCKING, ABOVE GYPSUM BOARD CEILINGS, AS REQUIRED	
FOR MISCELLA	ANEOUS SUSPENDED ITEMS (e.g. CURTAIN TRACKS, WINDOW USTICAL BAFFLES, ETC.)	01-19-17 01-13-17
		DATE:
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FIRST LEVEL REFLECTED CEILING PLAN - ZONE 'F'





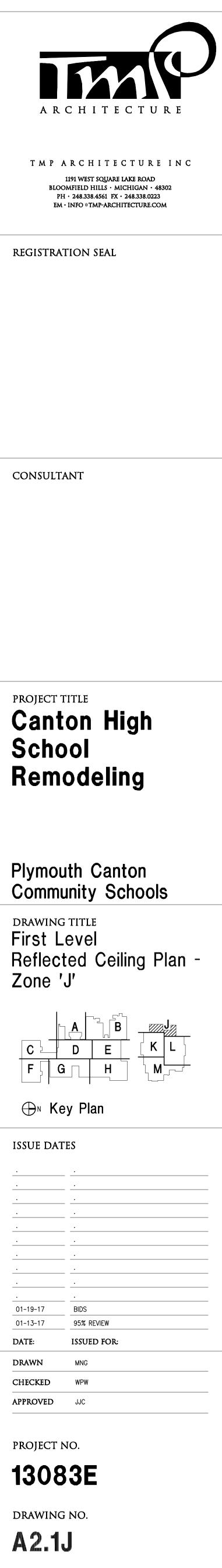


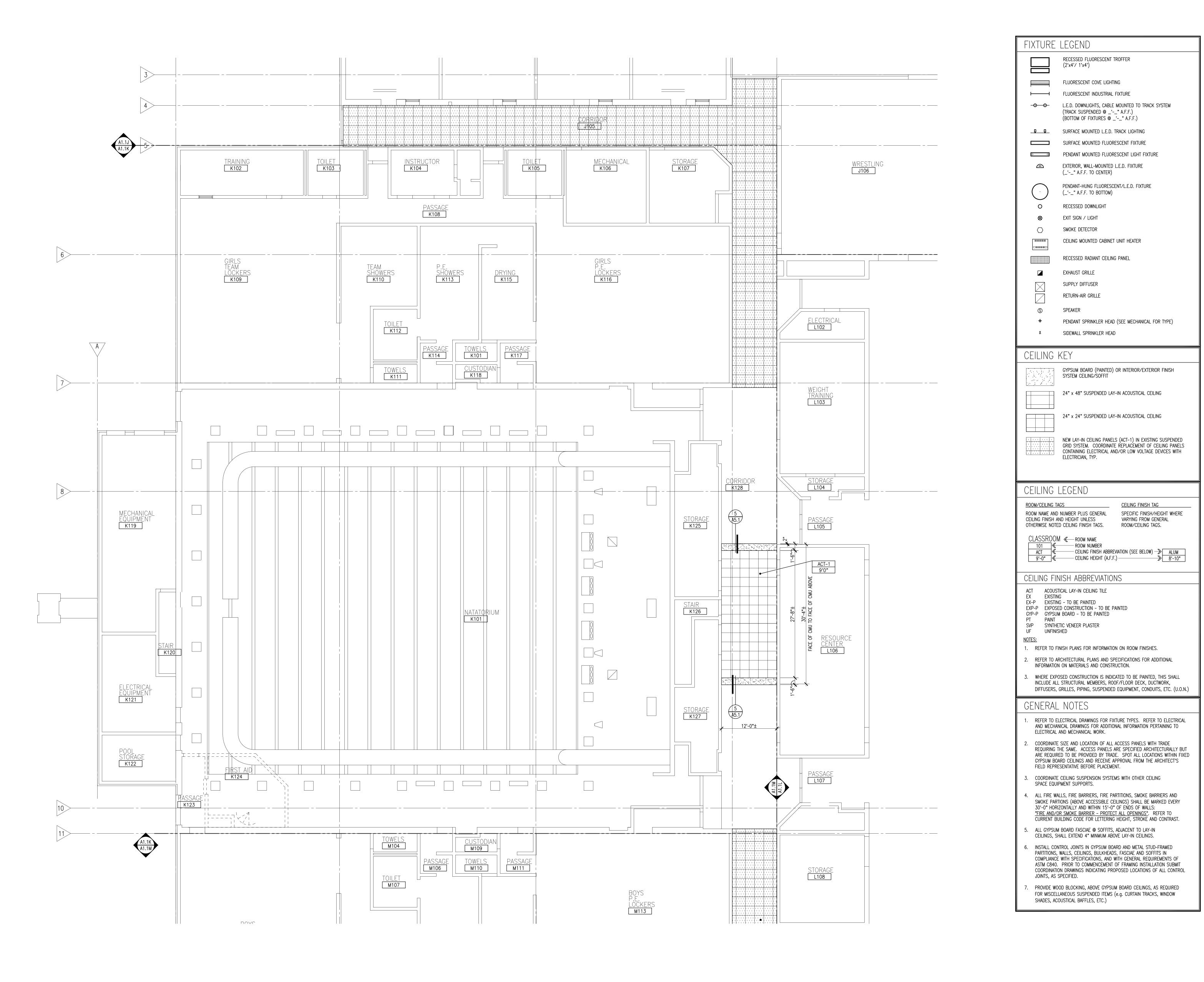


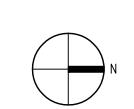
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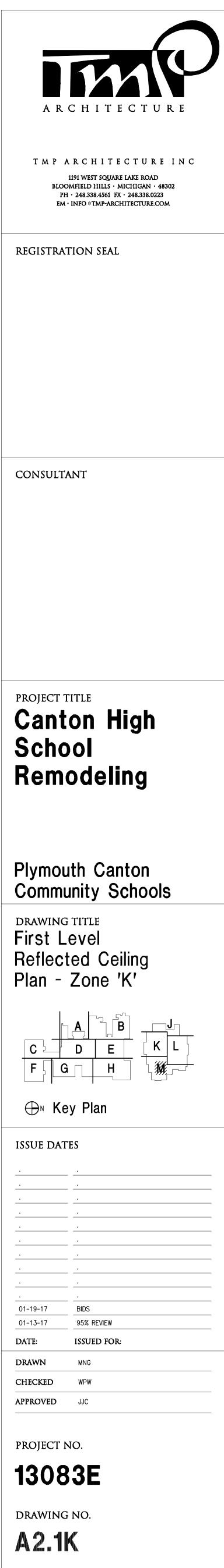


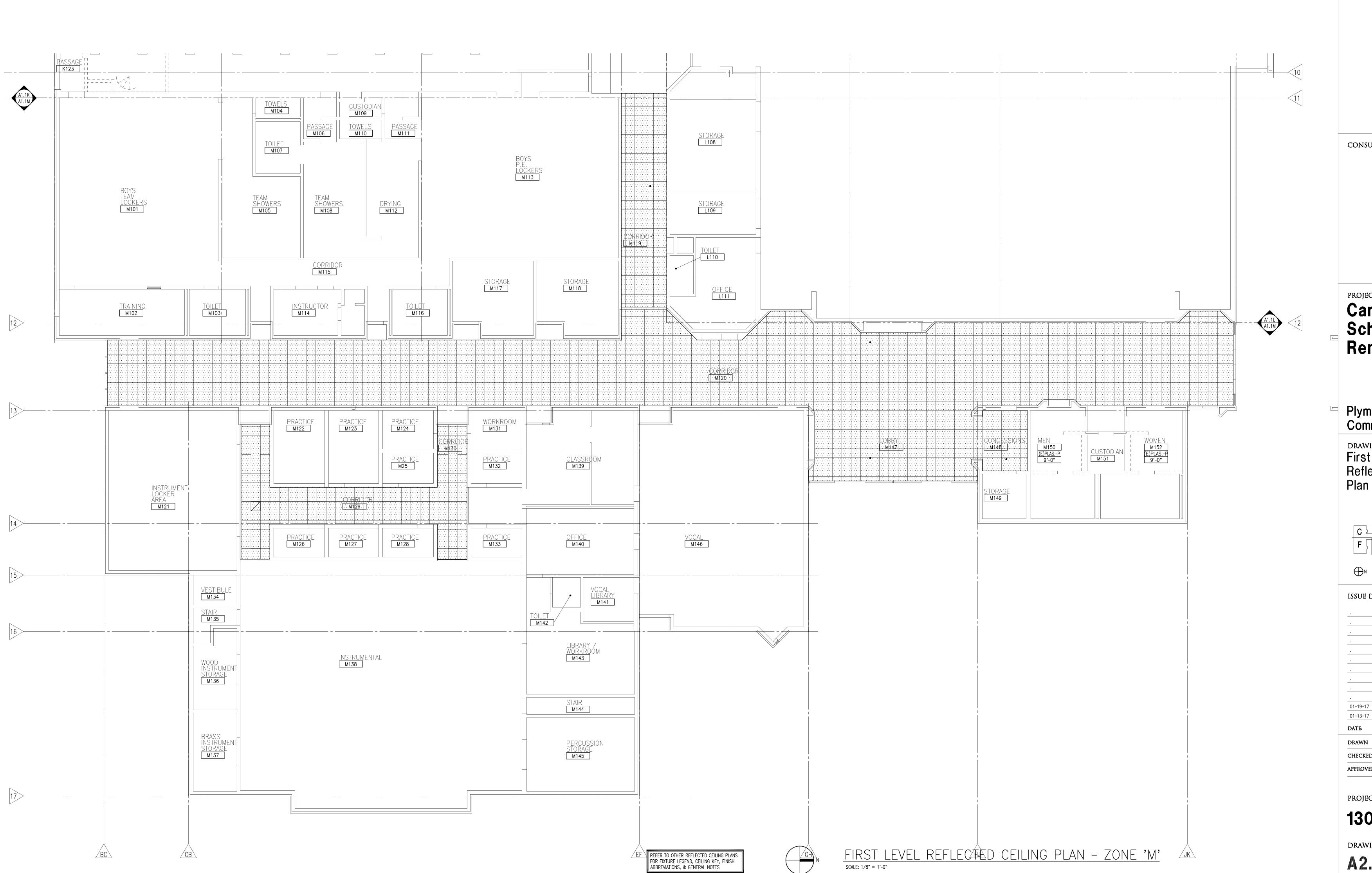


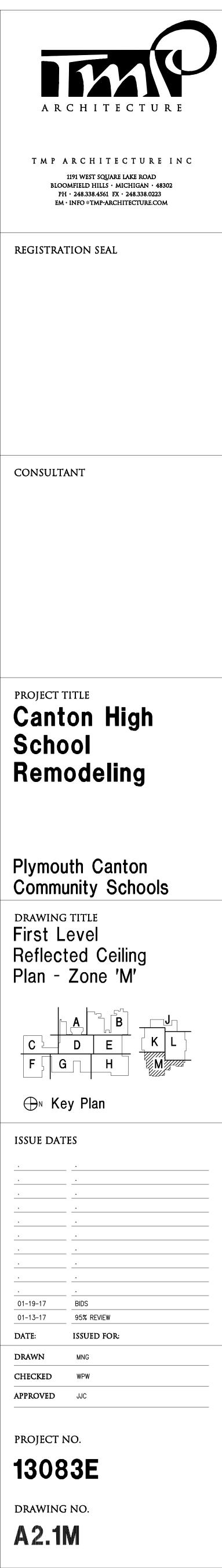


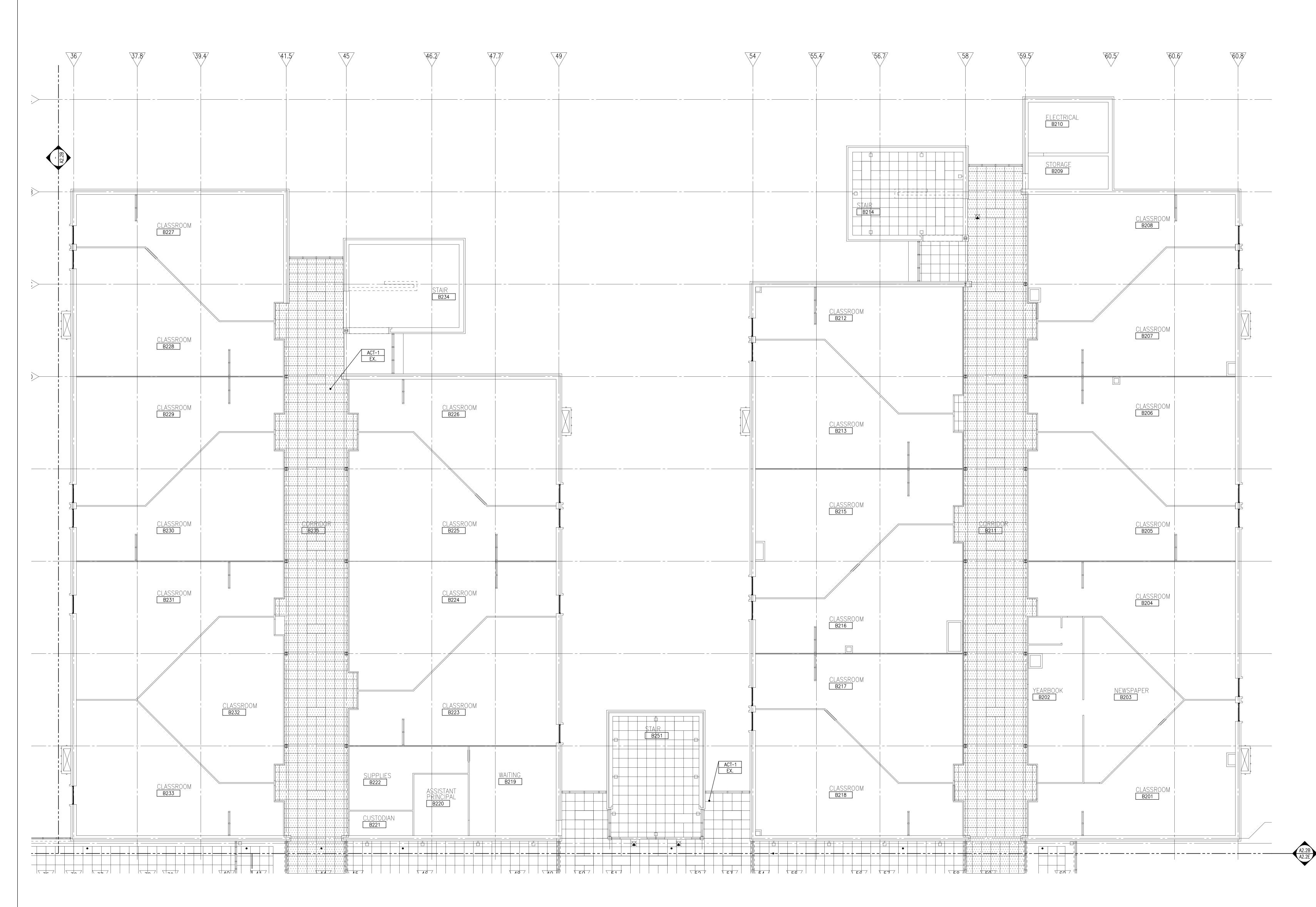
FIRST LEVEL REFLECTED CEILING PLAN - ZONE 'K'

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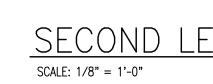


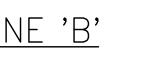


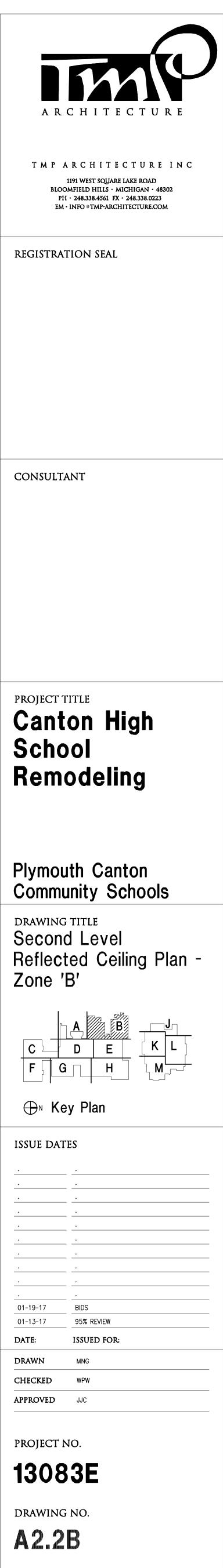


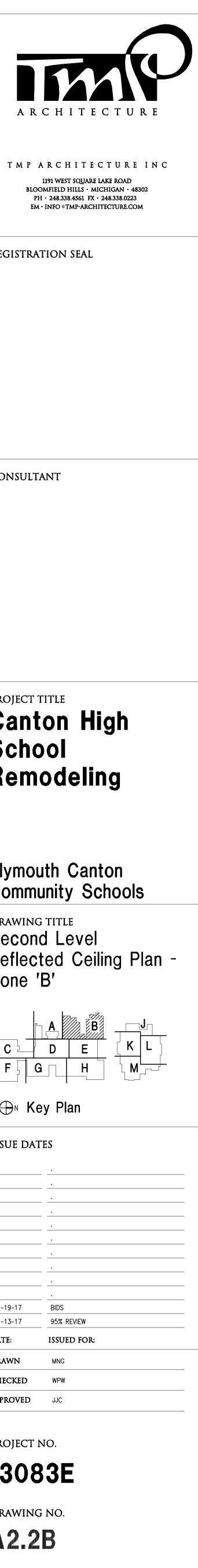


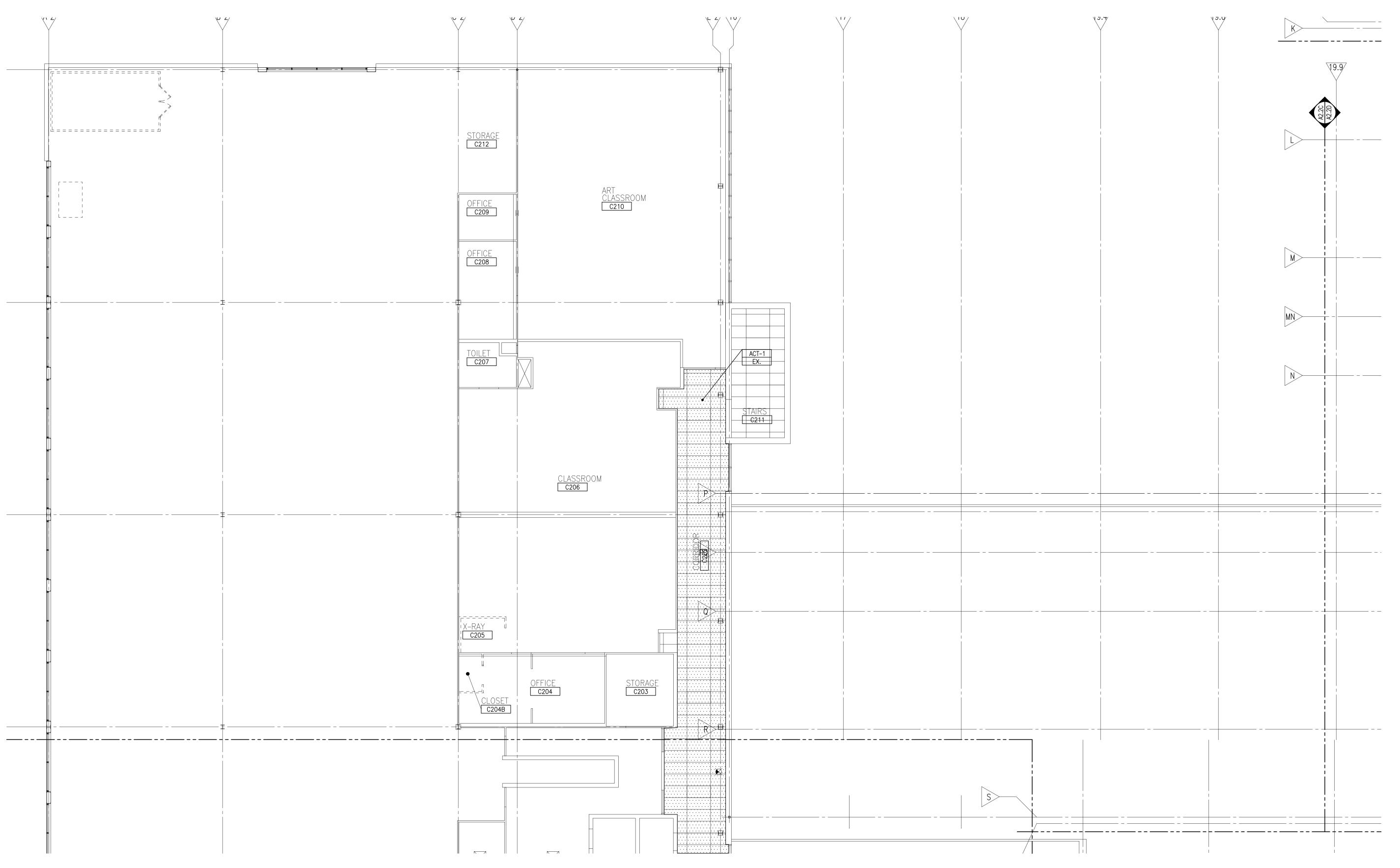
REFER TO OTHER REFLECTED CEILING PLANS FOR FIXTURE LEGEND, CEILING KEY, FINISH ABBREVIATIONS, & GENERAL NOTES





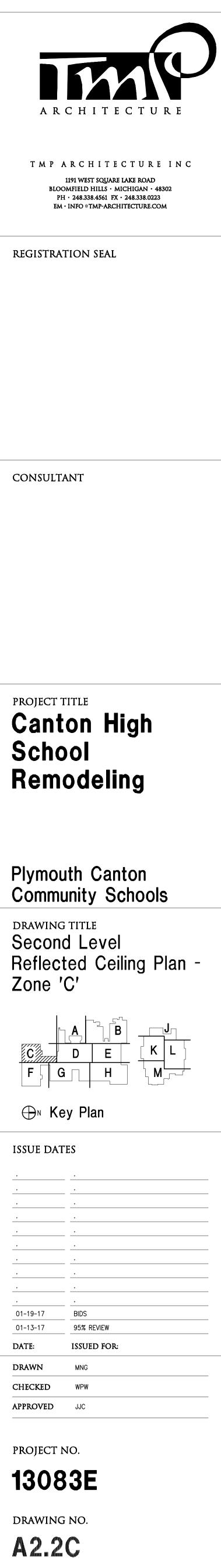


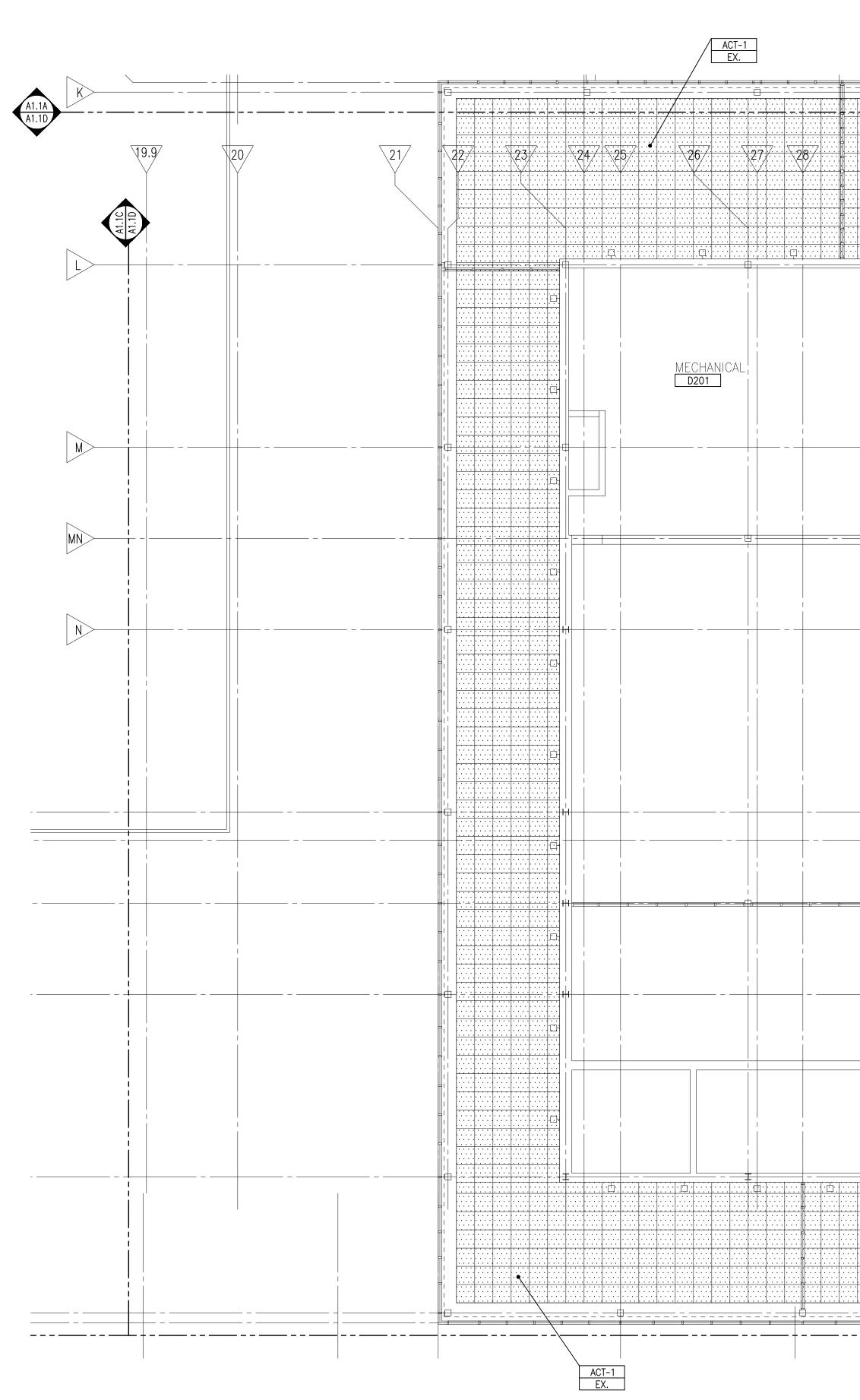


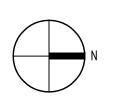




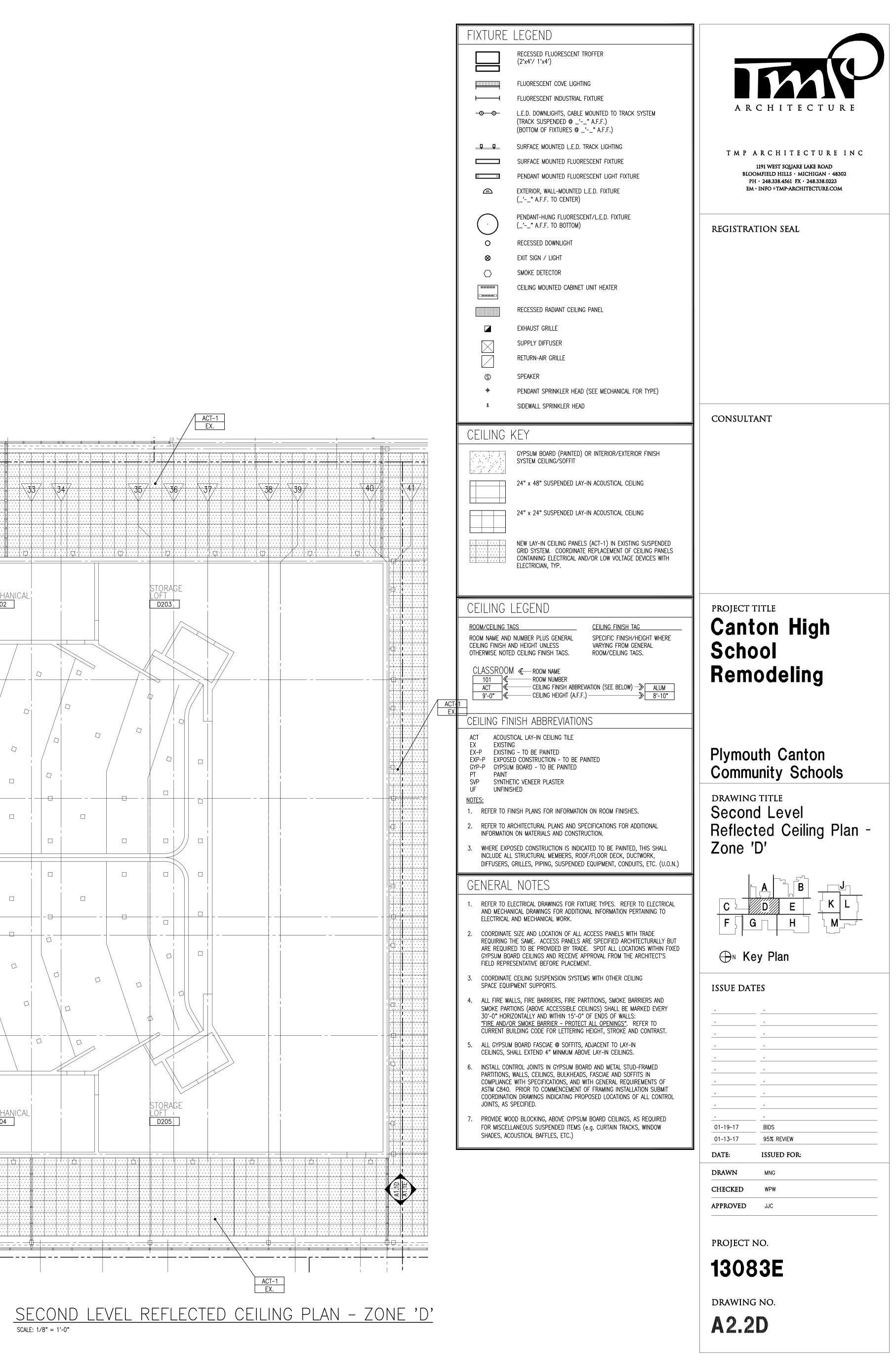
	FIXTURE LEGEND	
	(2'x4'/ 1'x4')	
	FLUORESCENT COVE LIGHTING	
	L.E.D. DOWNLIGHTS, CABLE MOUNTED TO TRACK SYSTEM (TRACK SUSPENDED @ _'" A.F.F.) (BOTTOM OF FIXTURES @ _'" A.F.F.)	
		т
	SURFACE MOUNTED FLUORESCENT FIXTURE PENDANT MOUNTED FLUORESCENT LIGHT FIXTURE	
	EXTERIOR, WALL-MOUNTED L.E.D. FIXTURE (_'" A.F.F. TO CENTER)	
	PENDANT-HUNG FLUORESCENT/L.E.D. FIXTURE (_'" A.F.F. TO BOTTOM)	REGI
	O RECESSED DOWNLIGHT	
	⊗ EXIT SIGN / LIGHTSMOKE DETECTOR	
	RECESSED RADIANT CEILING PANEL	
	EXHAUST GRILLE SUPPLY DIFFUSER	
	RETURN-AIR GRILLE	
	 ◆ PENDANT SPRINKLER HEAD (SEE MECHANICAL FOR TYPE) ▲ SIDEWALL SPRINKLER HEAD 	
	CEILING KEY	CON
	GYPSUM BOARD (PAINTED) OR INTERIOR/EXTERIOR FINISH SYSTEM CEILING/SOFFIT	
9.9⁄	24" x 48" SUSPENDED LAY-IN ACOUSTICAL CEILING	
	24" x 24" SUSPENDED LAY-IN ACOUSTICAL CEILING	
· 	NEW LAY-IN CEILING PANELS (ACT-1) IN EXISTING SUSPENDED GRID SYSTEM. COORDINATE REPLACEMENT OF CEILING PANELS CONTAINING ELECTRICAL AND/OR LOW VOLTAGE DEVICES WITH	
	ELECTRICIAN, TYP.	
	CEILING LEGEND ROOM/CEILING TAGS CEILING FINISH TAG	PROJ Ca
	ROOM NAME AND NUMBER PLUS GENERAL CEILING FINISH AND HEIGHT UNLESSSPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL ROOM/CEILING TAGS.OTHERWISE NOTED CEILING FINISH TAGS.ROOM/CEILING TAGS.	Sc
	otherwise noted ceiling finish tags. ROOM/Ceiling tags. CLASSROOM ≪— ROOM name	
	101 ROOM NUMBER ACT CEILING FINISH ABBREVIATION (SEE BELOW) 9'-0" CEILING HEIGHT (A.F.F.)	Re
I		
	CEILING FINISH ABBREVIATIONS ACT ACOUSTICAL LAY-IN CEILING TILE	
	EX EXISTING EX-P EXISTING - TO BE PAINTED EXP-P EXPOSED CONSTRUCTION - TO BE PAINTED	Ply
	GYP-P GYPSUM BOARD - TO BE PAINTED PT PAINT SVP SYNTHETIC VENEER PLASTER UF UNFINISHED	Co
	UF UNFINISHED <u>NOTES:</u> 1. REFER TO FINISH PLANS FOR INFORMATION ON ROOM FINISHES.	drav Sec
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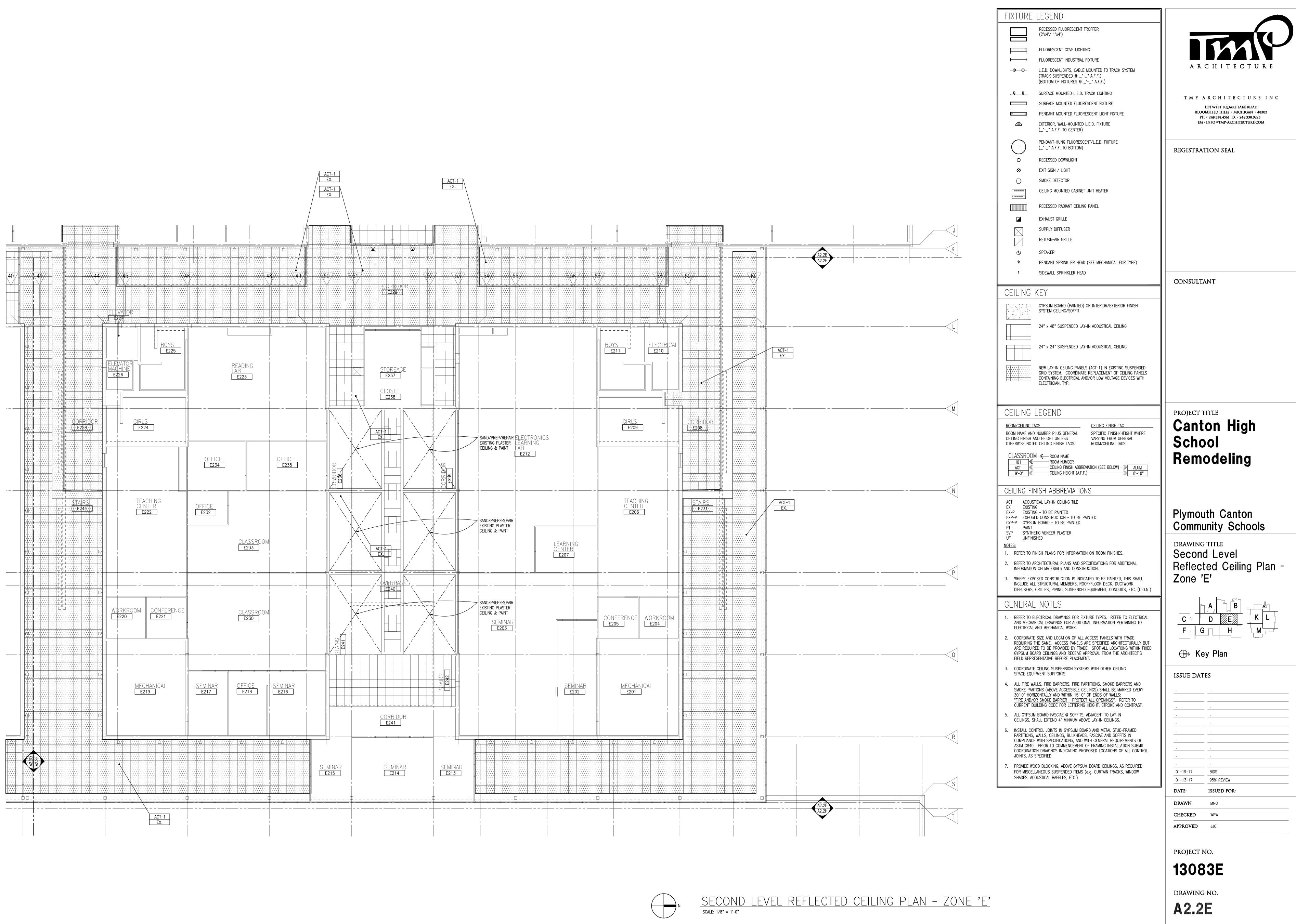


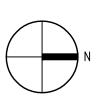


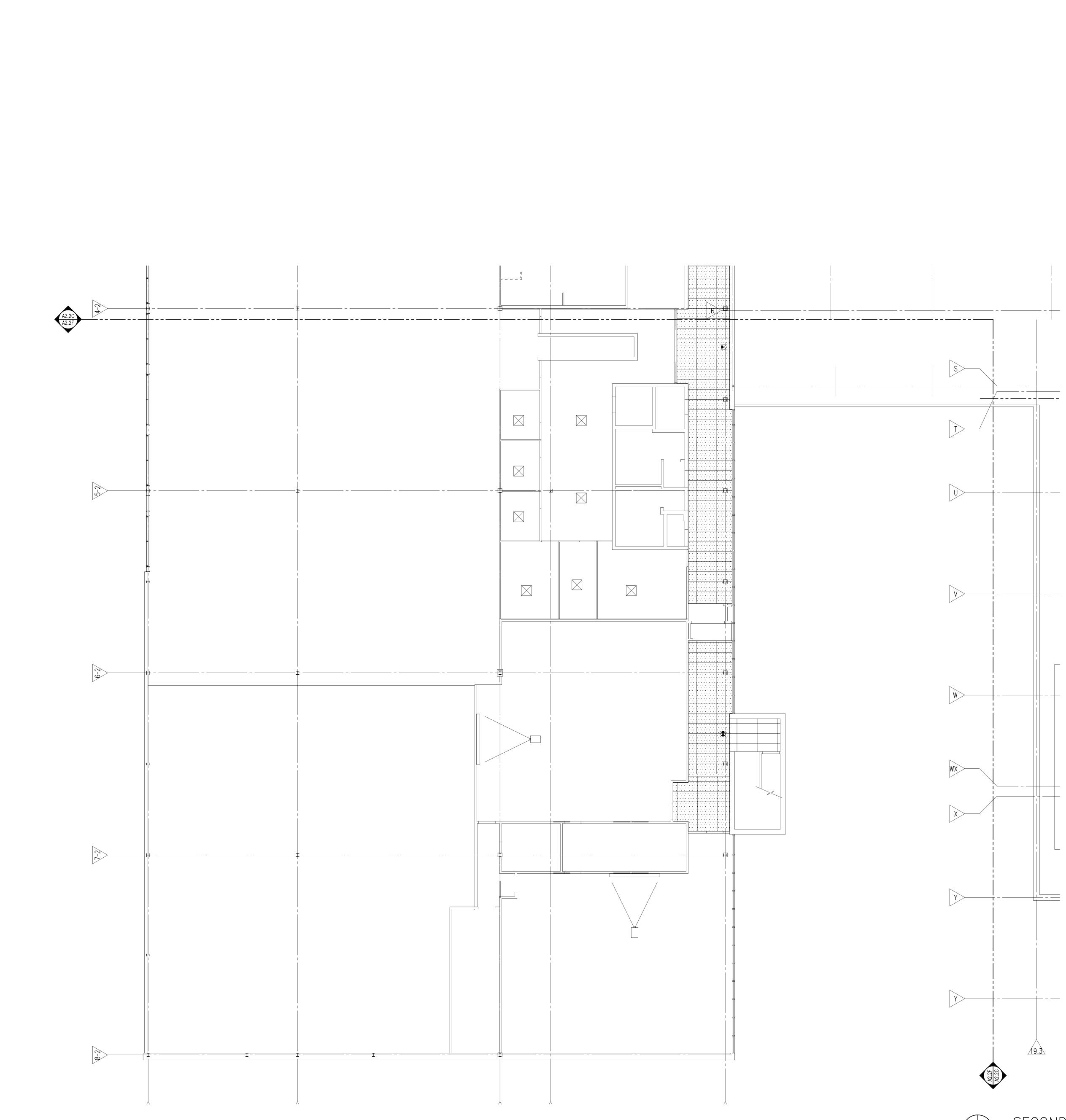


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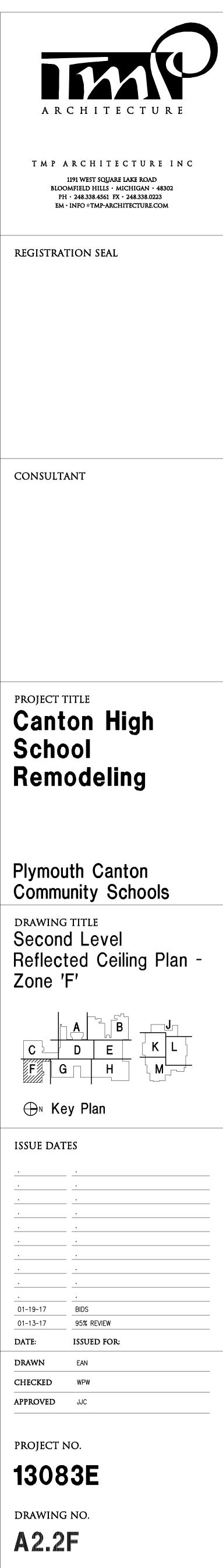


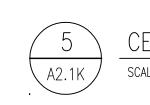


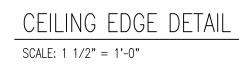


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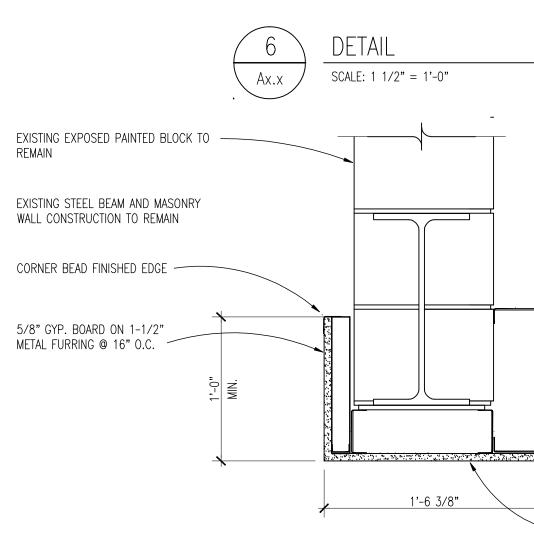
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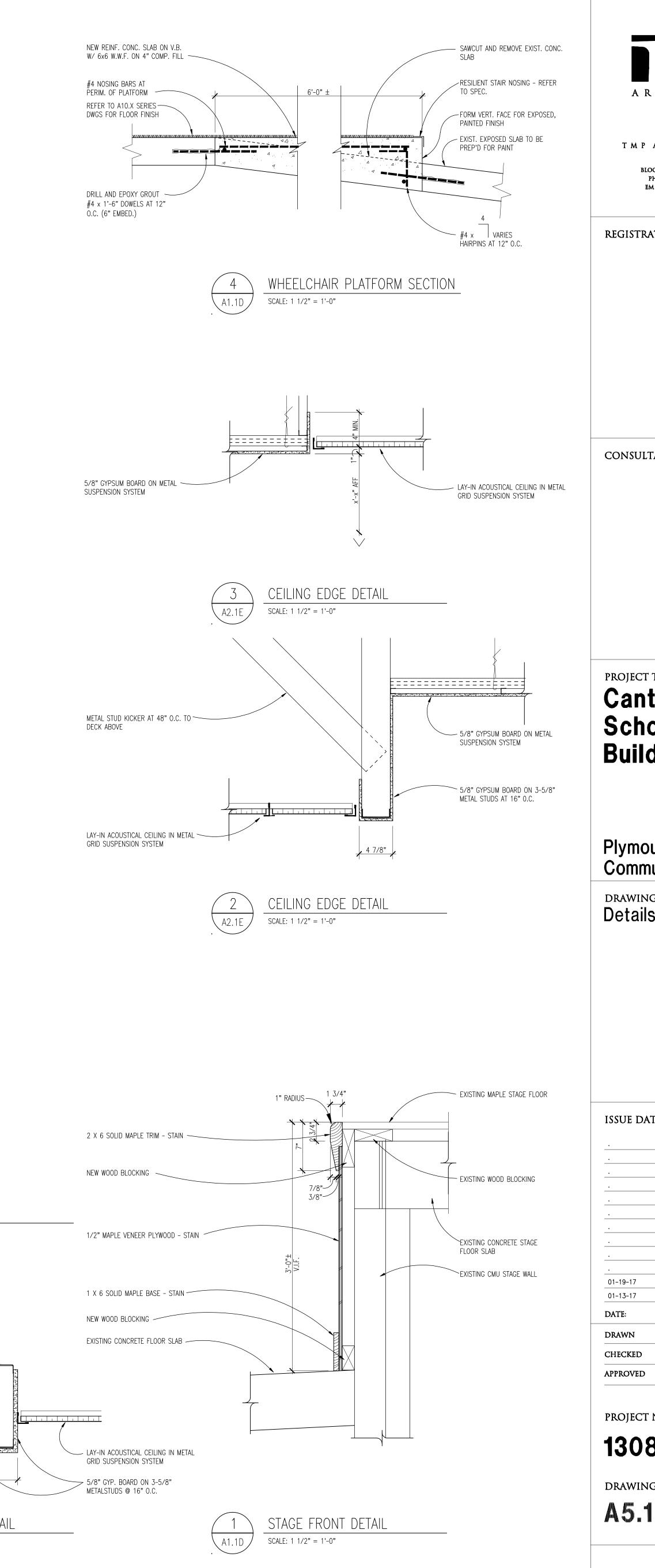






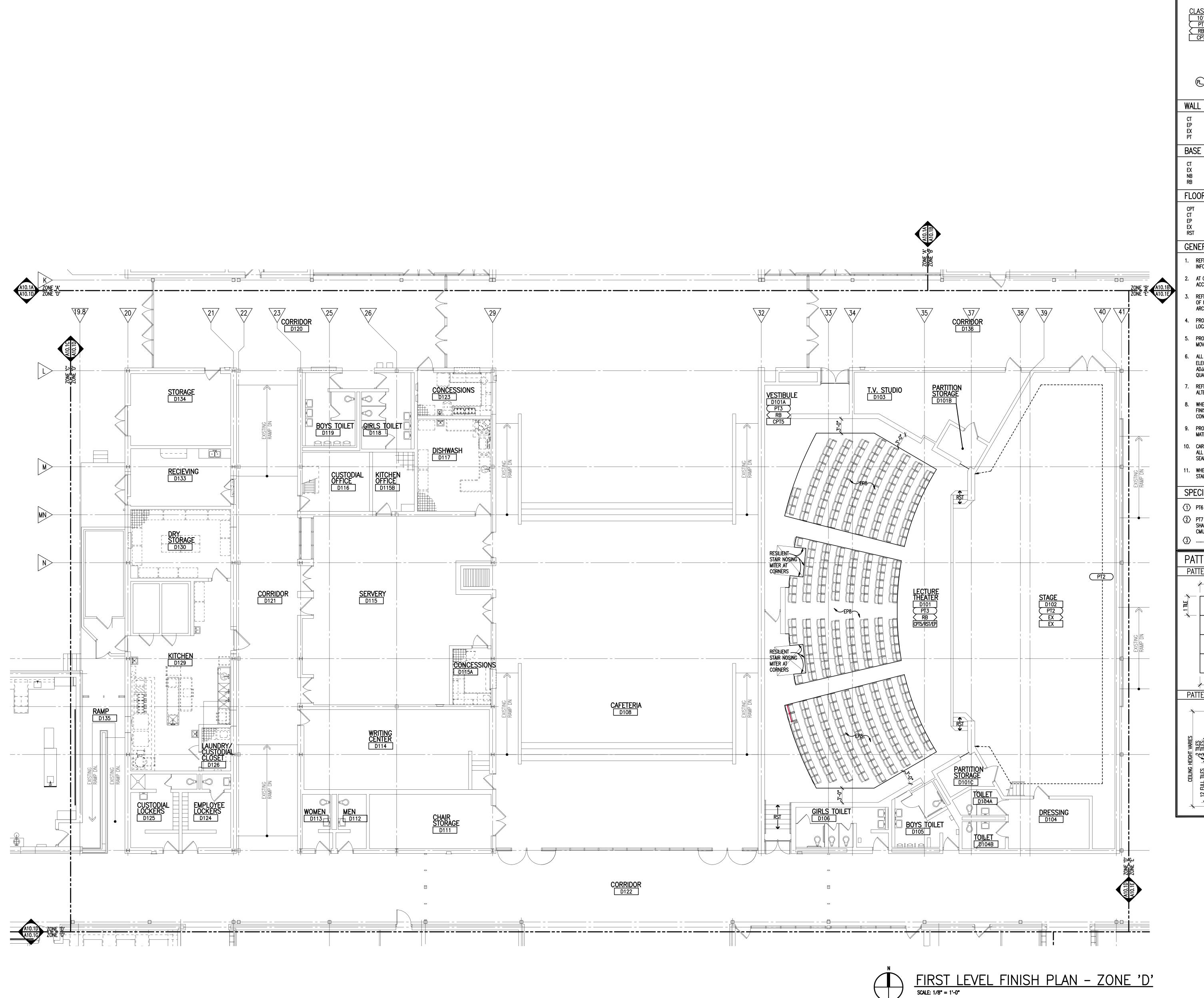
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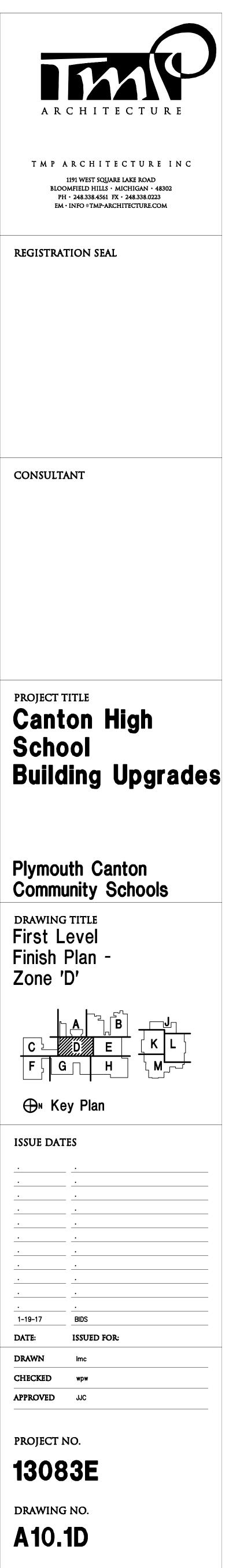


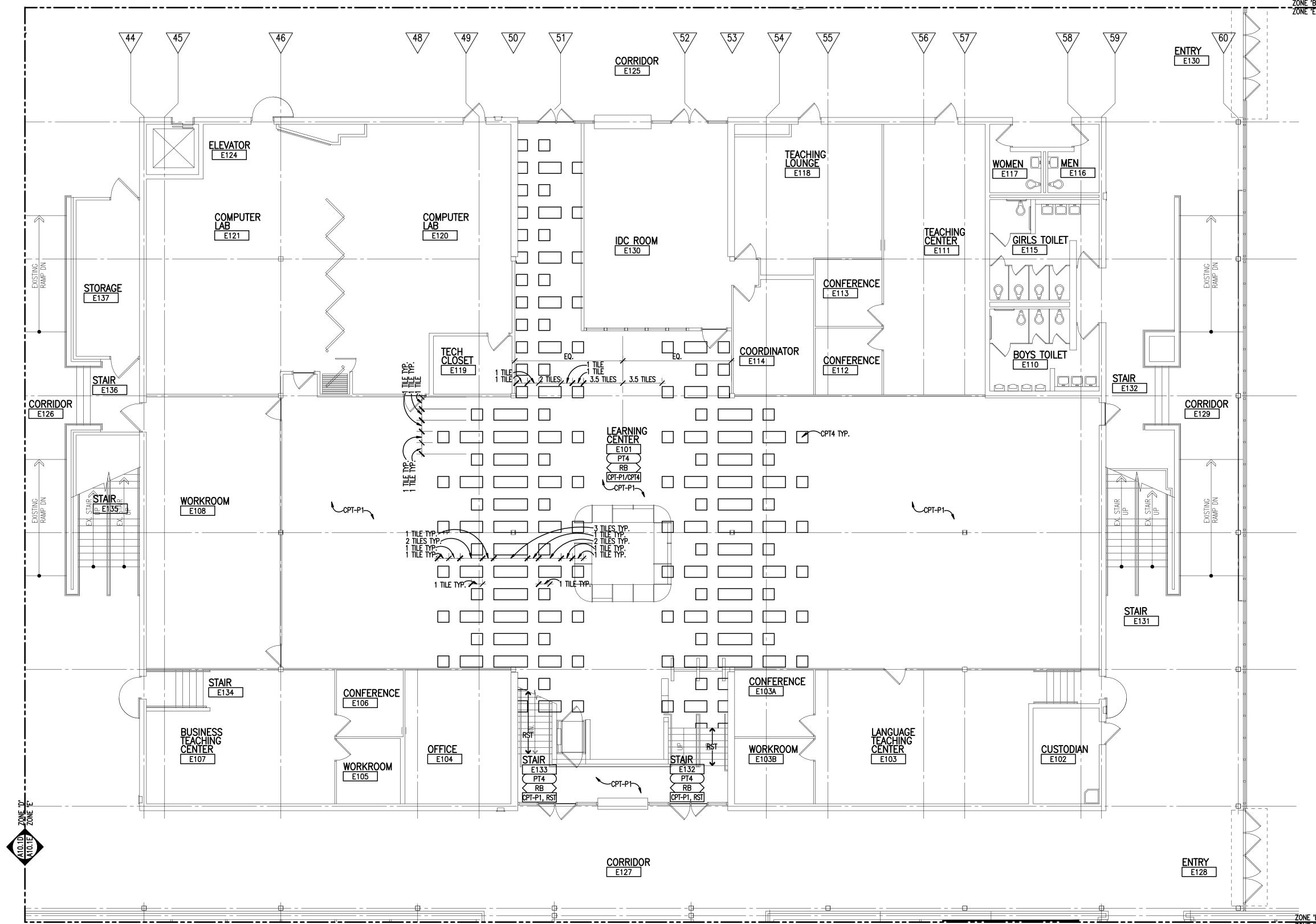
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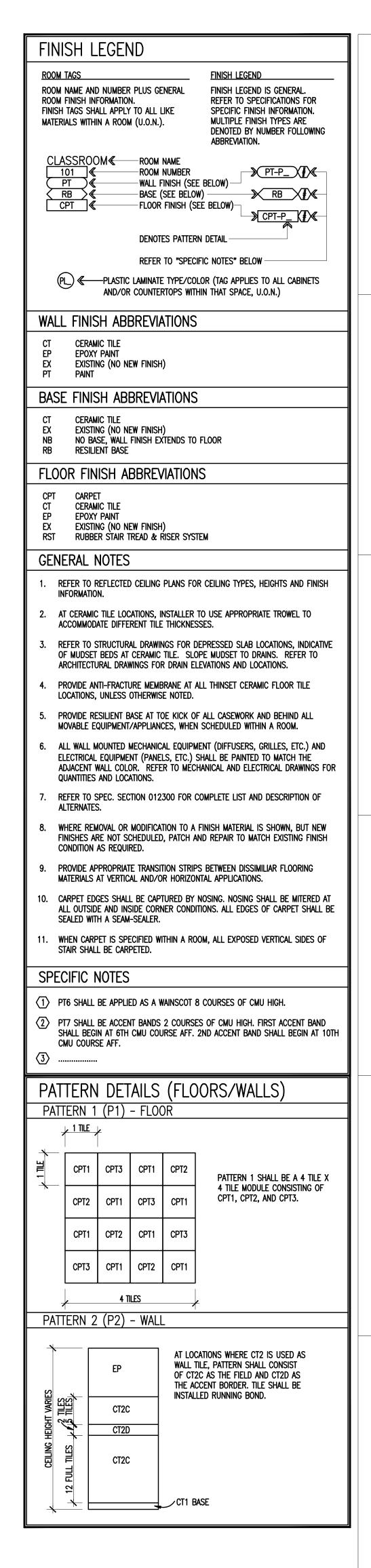
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DENOTED BY NUMBER FOLLOWING										
ABBREVIATION. CLASSROOM €──── ROOM NAME										
101 € ROOM NUMBER <										
RB € BASE (SEE BELOW) CPT € FLOOR FINISH (SEE BELOW) CPT €										
DENOTES PATTERN DETAIL										
REFER TO "SPECIFIC NOTES" BELOW										
PL										
WALL FINISH ABBREVIATIONS ct ceramic tile										
EP EPOXY PAINT EX EXISTING (NO NEW FINISH) PT PAINT										
BASE FINISH ABBREVIATIONS										
CT CERAMIC TILE EX EXISTING (NO NEW FINISH) NB NO BASE, WALL FINISH EXTENDS TO FLOOR RB RESILIENT BASE										
FLOOR FINISH ABBREVIATIONS										
CPT CARPET CT CERAMIC TILE ED EROXY PAINT										
EP EPOXY PAINT EX EXISTING (NO NEW FINISH) RST RUBBER STAIR TREAD & RISER SYSTEM										
GENERAL NOTES										
1. REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH										
INFORMATION. 2. AT CERAMIC TILE LOCATIONS, INSTALLER TO USE APPROPRIATE TROWEL TO										
ACCOMMODATE DIFFERENT TILE THICKNESSES.										
3. REFER TO STRUCTURAL DRAWINGS FOR DEPRESSED SLAB LOCATIONS, INDICATIVE OF MUDSET BEDS AT CERAMIC TILE. SLOPE MUDSET TO DRAINS. REFER TO ARCHITECTURAL DRAWINGS FOR DRAIN ELEVATIONS AND LOCATIONS.										
4. PROVIDE ANTI-FRACTURE MEMBRANE AT ALL THINSET CERAMIC FLOOR TILE LOCATIONS, UNLESS OTHERWISE NOTED.										
5. PROVIDE RESILIENT BASE AT TOE KICK OF ALL CASEWORK AND BEHIND ALL MOVABLE EQUIPMENT/APPLIANCES, WHEN SCHEDULED WITHIN A ROOM.										
6. ALL WALL MOUNTED MECHANICAL EQUIPMENT (DIFFUSERS, GRILLES, ETC.) AND ELECTRICAL EQUIPMENT (PANELS, ETC.) SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR										
 ADJACENT WALL COLOR. REFER TO MÉCHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS. 7. REFER TO SPEC. SECTION 012300 FOR COMPLETE LIST AND DESCRIPTION OF 										
 ALTERNATES. 8. WHERE REMOVAL OR MODIFICATION TO A FINISH MATERIAL IS SHOWN, BUT NEW FINISHES ARE NOT SCHEDULED, PATCH AND REPAIR TO MATCH EXISTING FINISH 										
 CONDITION AS REQUIRED. 9. PROVIDE APPROPRIATE TRANSITION STRIPS BETWEEN DISSIMILIAR FLOORING MATERIALS AT VERTICAL AND/OR HORIZONTAL APPLICATIONS. 										
10. CARPET EDGES SHALL BE CAPTURED BY NOSING. NOSING SHALL BE MITERED AT ALL OUTSIDE AND INSIDE CORNER CONDITIONS. ALL EDGES OF CARPET SHALL BE										
SEALED WITH A SEAM-SEALER. 11. WHEN CARPET IS SPECIFIED WITHIN A ROOM, ALL EXPOSED VERTICAL SIDES OF STAIR SHALL BE CARPETED.										
SPECIFIC NOTES										
1) PT6 SHALL BE APPLIED AS A WAINSCOT 8 COURSES OF CMU HIGH.										
2 PT7 SHALL BE ACCENT BANDS 2 COURSES OF CMU HIGH. FIRST ACCENT BAND										
SHALL BEGIN AT 6TH CMU COURSE AFF. 2ND ACCENT BAND SHALL BEGIN AT 10TH CMU COURSE AFF.										
PATTERN DETAILS (FLOORS/WALLS) PATTERN 1 (P1) - FLOOR										
$\frac{PATTERN T (PT) - FLOOR}{1 + 1 T LE}$										
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CPT1 CPT2 CPT1 CPT3										
CPT3 CPT1 CPT2 CPT1										
PATTERN 2 (P2) - WALL										
AT LOCATIONS WHERE CT2 IS USED AS WALL TILE, PATTERN SHALL CONSIST										
OF CT2C AS THE FIELD AND CT2D AS THE ACCENT BORDER. TILE SHALL BE										
INSTALLED RUNNING BOND.										

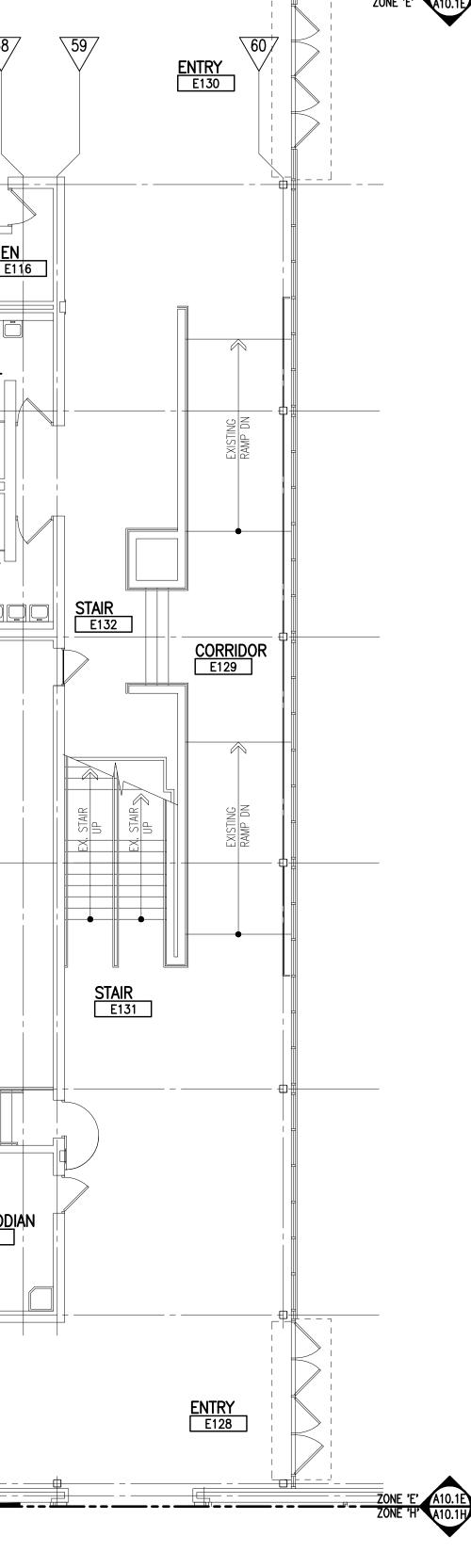


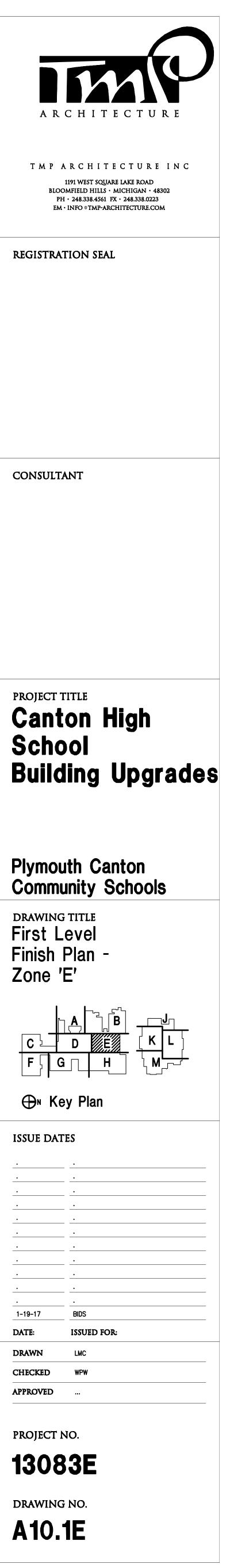


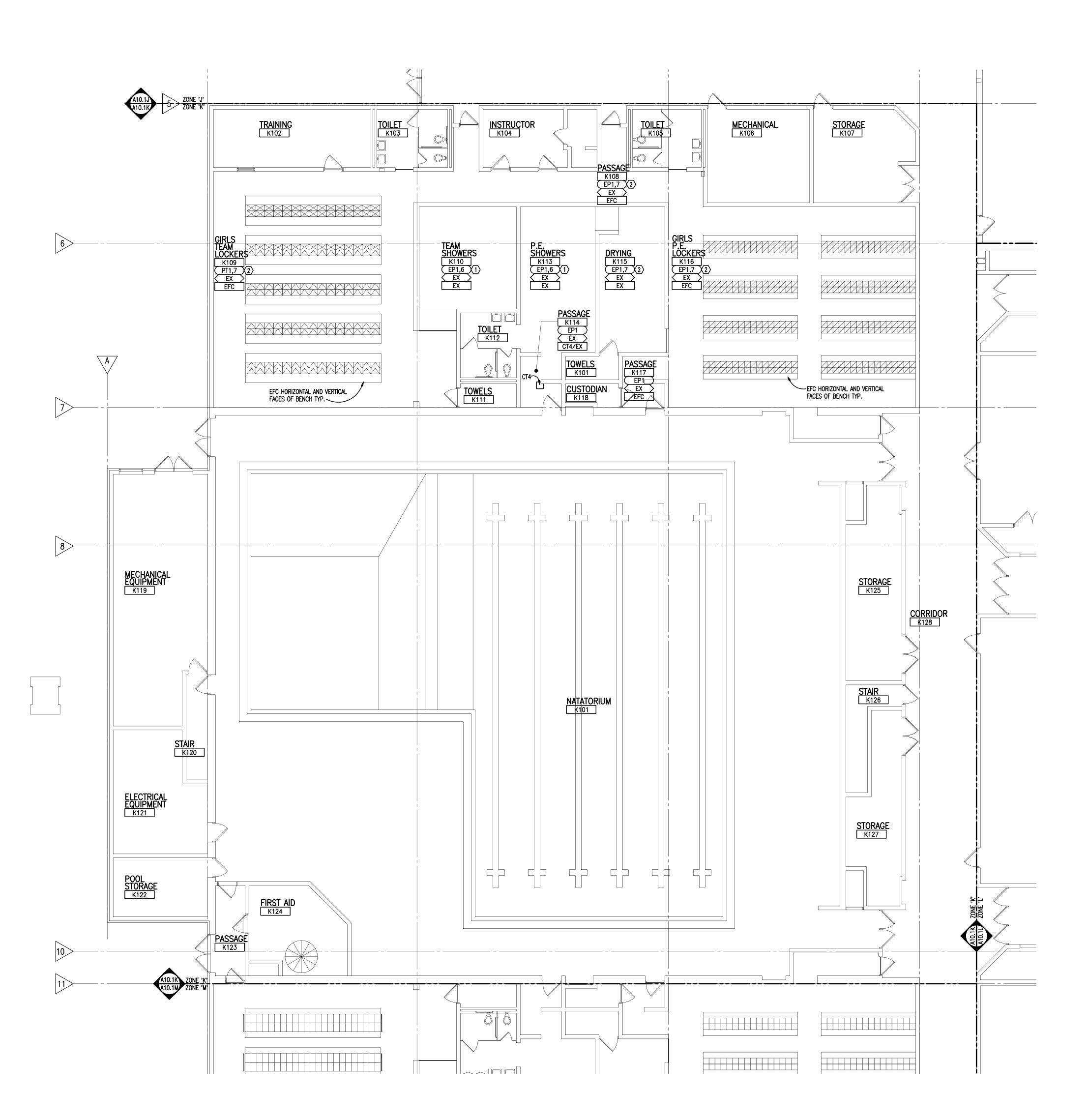
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RST E133 PT4 CH CH CH CH CH CH CH CH CH CH CH CH CH		ST WORKROOM	LANGUAGE TEACHING CENTER E103				
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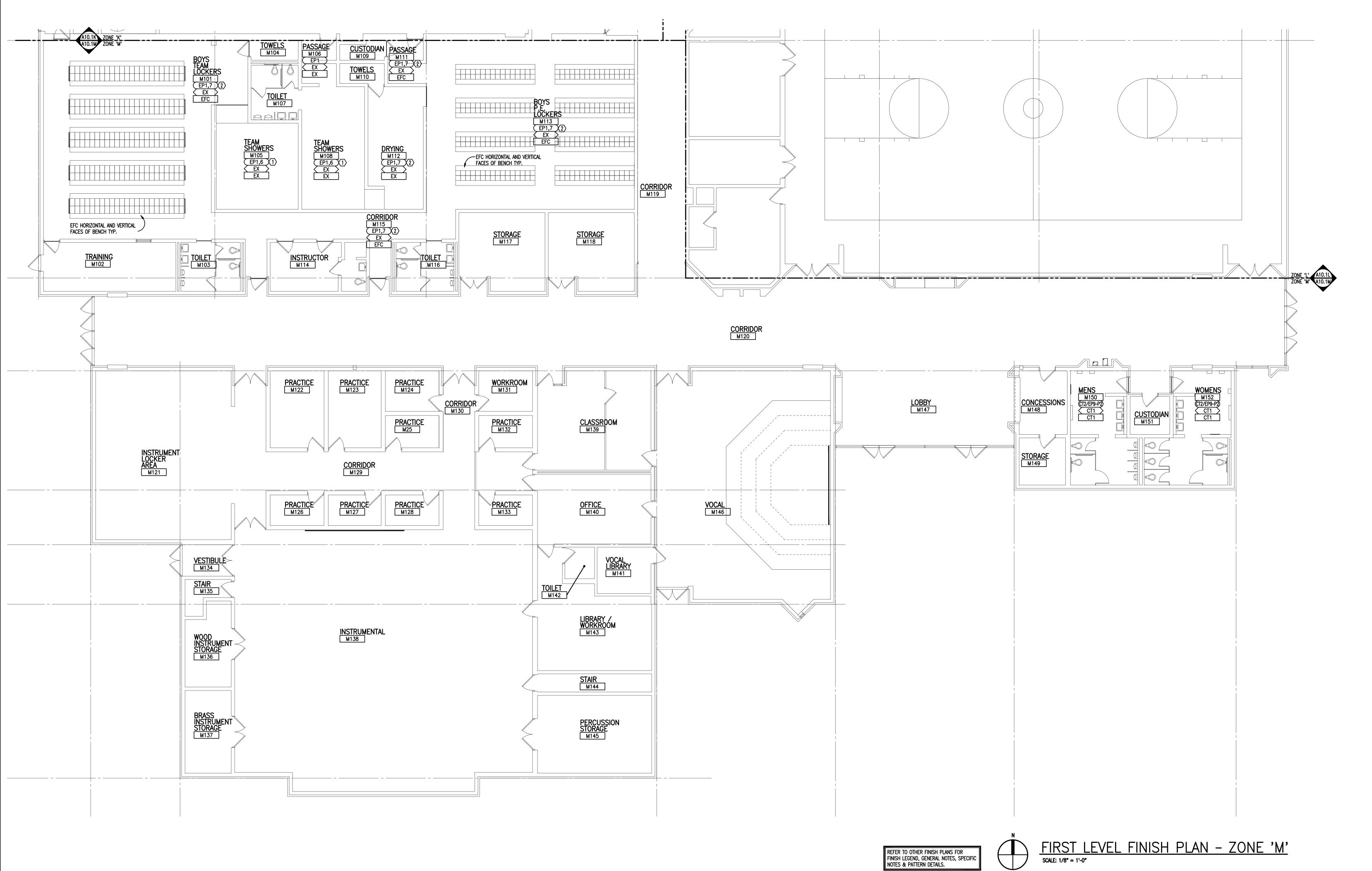




BOOM TAGS FINSH LEGEND ROOM NAME AND NUMBER PLUS GENERAL ROOM FINSH NORMATION. FINSH LEGEND IS GENERAL REFERENCE FINSH NORMATION. FINSH TAGS SHALL APPLY TO ALL LINE MATERIALS WITHIN A ROOM (U.O.N.). FINSH LEGEND IS GENERAL REFERENCE TO SPECIFICATIONS FOR SPECIFIC FINSH NORMATION. CLASSECOM ROOM NAME ROOM NAME ROOM NAME ROOM ROOM ROOM ROOM ROOM ROOM ROOM ROOM
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PT WALL PNISH (SEE BELOW) RB PT PLOOR FINISH (SEE BELOW) REFER TO SPECIFIC NOTES'S BELOW DENOTES PATTERN DETAIL REFER TO SPECIFIC NOTES'S BELOW PLOSTICL JAMINATE TYPE/COLOR (TAG APPLIES TO ALL CABINETS ADD/OR COUNTERTOPS WITHIN THAT SPACE, U.O.N.) WALL FINISH ABBREVIATIONS CT CERANIC TILE PP ADSTICL JAMINATE TYPE/COLOR (TAG APPLIES TO ALL CABINETS ADD/OR COUNTERTOPS WITHIN THAT SPACE, U.O.N.) WALL FINISH ABBREVIATIONS CT CERANIC TILE PP ADSTICL JAMINATE TYPE/COLOR (TAG APPLIES TO ALL CABINETS ADD STIME) (N. EW FINISH) PT PART BASE FINISH ABBREVIATIONS CT CERANIC TILE PP EDVIT PART BASE STAIR TECA & RISER SYSTEM CEENERAL NOTES 1. REFER TO REFLECTED CELLING PLANS FOR CELLING TYPES, HEIGHTS AND FINISH INFORMATION. 2. AT CERANIC TILE LOCATIONS, INSTALLER TO USE APPROPRIATE TROWEL TO ACCOMMODATE DIFFERENT TILE HOCKNESSED STABL LOCATIONS, INDICATIVE OF MURDET DO BANK. REFER TO ARCHITEGEN OF DAWINS FOR DEPRESSED STABL LOCATIONS. 2. AT CERANIC TILE LOCATIONS, INSTALLER TO USE APPROPRIATE TROWEL TO ARCHITEGEN DET BADS AT CERANIC TALL SLOPE WIDDET TO DOMARS. REFER TO ARCHITEGEN DET DAWINS FOR DEPRESSED STABL LOCATIONS. 3. REFER TO SPECC.SECTION OF DR DAWINS FOR CELLING AND LOCATIO
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PATTERN DETAILS (FLOORS/WALLS)
PATTERN DETAILS (FLOORS/WALLS) PATTERN 1 (P1) - FLOOR
CPT1 CPT3 CPT1 CPT2 PATTERN 1 SHALL BE A 4 TILE X
CPT2 CPT1 CPT3 CPT1 CPT3 CPT1 CPT2, AND CPT3.
CPT1 CPT2 CPT1 CPT3
CPT3 CPT1 CPT2 CPT1
PATTERN 2 (P2) - WALL
EP AT LOCATIONS WHERE CT2 IS USED AS WALL TILE, PATTERN SHALL CONSIST OF CT2C AS THE FIELD AND CT2D AS THE ACCENT BORDER. TILE SHALL BE
SERVER SET CT2C INSTALLED RUNNING BOND.
CEILING CEILING CEILING CEILING

FIRST LEVEL FINISH PLAN - ZONE 'K'







ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	<u>D</u>
д	COMPRESSED AIR	FD	FLOOR DRAIN	0	C
A(#) AAV	COMPRESSED AIR (SPECIFIC PSIG) AUTOMATIC AIR VENT	FFD FH	FUNNEL FLOOR DRAIN FIRE HYDRANT	OA OAT	0
ACC	AIR COOLED CONDENSER	FHC	FIRE HOSE CABINET	OBD	C
VCCU VD	AIR COOLED CONDENSING UNIT ACCESS DOOR	FHR FHV	FIRE HOSE RACK FIRE HOSE VALVE	OC OD	0
AD	AREA DRAIN	FLA	FULL LOAD AMPS	OED	0
AE AFF	AIR EXTRACTOR ABOVE FINISHED FLOOR	FLR FM	Floor Flow Meter	OFCI OFOI	0
AHU	AIR HANDLING UNIT	FMS	FLOW MEASURING STATION	OL	0
ALT AMP	ALTERNATE AMPERE	FPM FP	FEET PER MINUTE FIRE PUMP	ORC ORD	0
APD	AIR PRESSURE DROP	FPTU	FAN POWERED (AIR) TERMINAL UNIT	OS&Y	0
AR ASHRAE	ARGON AMERICAN SOCIETY OF HEATING, REFRIGERATION	FS FSEC	FLOOR SINK FOOD SERVICE EQUIPMENT CONTRACTOR	OV OWS	0
	AND AIR-CONDITIONING ENGINEERS	FT	FEET		
ASR AUX	AUTOMATIC SPRINKLER RISER AUXILIARY	FTR FV	FINNED TUBE RADIATION FACE VELOCITY	PACU PBD	P P
AV	ACID VENT			PC	Р
AVTR AW	ACID VENT THROUGH ROOF ACID WASTE	G GA	NATURAL GAS GAUGE	PCW PCWR	P P
		GAL	GALLON	PCWS	Р
BAS BCU	BUILDING AUTOMATION SYSTEM BLOWER COIL UNIT	GRH GPH	GRAVITY RELIEF HOOD GALLONS PER HOUR	PD PH	P P
BDD	BACKDRAFT DAMPER	GPM	GALLONS PER MINUTE	PHR	Р
3FF 3FP	BELOW FINISHED FLOOR BACKFLOW PREVENTER	н	HYDROGEN	PHS PNL	P P
3HP	BRAKE HORSEPOWER	HB	HOSE BIBB	PPM	P
30D 30P	BOTTOM OF DUCT BOTTOM OF PIPE	HC HD	HEATING COIL HOT DECK	PRESS PRV	F F
BTU	BRITISH THERMAL UNIT	HEPA	HIGH EFFICIENCY PARTICULATE ARRESTANCE	PSAN	Р
BTUH BWV	BRITISH THERMAL UNIT PER HOUR BACKWATER VALVE	HL HOA	HIGH LIMIT HAND/OFF/AUTO	PST PSI	P P
		HP	HEAT PUMP	PSIA	Р
C CAP	COMMON CAPACITY	HP HPCW	HORSEPOWER HIGH PRESSURE DOMESTIC COLD WATER	PSIG PW	P P
CAV	CONSTANT AIR VOLUME	HPHW	HIGH PRESSURE DOMESTIC HOT WATER	PWR	Р
CB CC	CATCH BASIN COOLING COIL	HPHWR HPL	HIGH PRESSURE DOMESTIC HOT WATER RETURN HEAT PUMP LOOP	PWS	Ρ
CD	COLD DECK	HPLR	HEAT PUMP LOOP RETURN	(R)	R
CD CFCI	CONDENSATE DRAIN CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	hpls hr	HEAT PUMP LOOP SUPPLY HOUR	R RA	R R
CFH	CUBIC FEET PER HOUR	HTG	HEATING	RAT	R
CFM CH	cubic feet per minute Chiller	HV HVAC	HEATING VENTILATING HEATING, VENTILATING, AIR CONDITIONING	RC RCP	R R
CHW	CHILLED WATER	HWH	HOT WATER HEATING	RD	R
CHWR CHWS	CHILLED WATER RETURN CHILLED WATER SUPPLY	HWHR HWHS	HOT WATER HEATING RETURN HOT WATER HEATING SUPPLY	REQD REF	R R
CLG	COOLING	HW	DOMESTIC HOT WATER	RF	R
CNDS CNDS (#)	CONDENSATE CONDENSATE (SPECIFIC PSIG)	HW() HWR	DOMESTIC HOT WATER (SPECIFIC TEMP 'F) DOMESTIC HOT WATER RETURN	RH RLFA	R R
CO	CLEAN OUT	HX	HEAT EXCHANGER	RPM	R
CO2 CONT	CARBON DIOXIDE CONTINUATION OR CONTINUED	HZ	HERTZ	RS RTU	R R
CONTR	CONTRACTOR	IAQ	INDOOR AIR QUALITY		
CONV COP	CONVECTOR COEFFICIENT OF PERFORMACE	ID IE	INSIDE DIAMETER INVERT ELEVATION	S	S
CP	CIRCULATING PUMP	IH	INTAKE HOOD	SA	S
CRU CSS	CONDENSATE RETURN UNIT CLINICAL SERVICE SINK	IN IR	INCHES INFRARED HEATER	SA SAN	S S
	COOLING TOWER	IW	INDIRECT WASTE	SAT	S S
CUH CW	CABINET UNIT HEATER DOMESTIC COLD WATER	JC	JANITOR'S CLOSET	SECT SF	S
CWR	CONDENSER WATER RETURN	JP	JOCKEY PUMP	SH	S
CWS	CONDENSER WATER SUPPLY	KW	KILOWATT	SK SMR	S S
D&T DA	DRIP AND TRAP DISCHARGE AIR	KWH	KILOWATT-HOUR	SMS SP	S S
DAT	DISCHARGE AIR TEMPERATURE	LAT	LEAVING AIR TEMPERATURE	SPEC	S
DB DDC	DRY BULB DIRECT DIGITAL CONTROL	LAB LAV	LABORATORY LAVATORY	SPKLR SQFT	S
DEG	DEGREE	LBS	POUNDS	S/S SS	S S
DFU DIA	DRAINAGE FIXTURE UNITS DIAMETER	LDB LL	LEAVING DRY BULB LOW LIMIT	SS ST	S S
OMPR	DAMPER	LPC	LOW PRESSURE CONDENSATE	STD	S
D/N DN	DAY/NIGHT DOWN	LPS LRA	LOW PRESSURE STEAM LOCKED ROTOR AMPS	STK STM	S S
DNZ	DOWNSPOUT NOZZLE	LWB	LEAVING WET BULB	STM(#)	S
)S)T	DUCT SILENCER DRAIN TILE	LWT	LEAVING WATER TEMPERATURE	S/W SW	S S
DTC	DRAIN TILE CONNECTION	MA	MIXED AIR	51	
)WH)WG	DOMESTIC WATER HEATER DRAWING	MAT MAU	MIXED AIR TEMPERATURE MAKE-UP AIR UNIT	T TC	T T
	DRAWING	MAX	MAXIMUM	TC	Т
(E) E	existing exhaust grille or register	MBH MCA	THOUSAND BRITISH THERMAL UNITS PER HOUR MEDICAL COMPRESSED AIR	TCP TD	T T
EA	EACH	MCA	MINIMUM CIRCUIT AMPACITY	TEMP	Т
EA EAT	EXHAUST AIR ENTERING AIR TEMPERATURE	MCC MECH	MOTOR CONTROL CENTER MECHANICAL	TEMP TH	T T
EC	EXPANSION COMPENSATOR	MEZZ	MEZZANINE	THA	Т
ECUH EDB	ELECTRIC CABINET UNIT HEATER ENTERING DRY BULB	MFR MH	MANUFACTURER MANHOLE	thr Thr	T T
EER	ENERGY EFFICIENCY RATIO	MIN	MINIMUM	THS	Т
EES EEW	EMERGENCY EYE WASH / SHOWER EMERGENCY EYE WASH	MISC MMBH	MISCELLANEOUS MILLION BRITISH THERMAL UNITS PER HOUR	tsp Tu	Т (,
EF	EXHAUST FAN	M/S	MOTOR STARTER	TV	Т
EFF EHC	EFFICIENCY ELECTRIC HEATING COIL	MTD MTR	MOUNTED MOTOR	TYP	Т
EJ	EXPANSION JOINT	MV	MANUAL AIR VENT	UH	U
EL ELEC	ELEVATION ELECTRICAL	MVAC	MEDICAL VACUUM	UL UON	U U
EMS	ENERGY MANAGEMENT SYSTEM	Ν	NITROGEN	UR	U
ERL ERLR	ENERGY RECOVERY LOOP ENERGY RECOVERY LOOP RETURN	N2O NC	NITROUS OXIDE NOISE CRITERIA	UV	U
ERLS	ENERGY RECOVERY LOOP SUPPLY	NC	NORMALLY CLOSED	V	V
ERU ESH	ENERGY RECOVERY UNIT EMERGENCY SHOWER	NCTC NCTO	NORMALLY CLOSED TIMED CLOSED NORMALLY CLOSED TIMED OPEN	V VAC	V V
ESP	EXTERNAL STATIC PRESSURE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	VAV	V
euh Ewb	ELECTRIC UNIT HEATER ENTERING WET BULB	NOTC NOTO	NORMALLY OPEN TIMED CLOSED NORMALLY OPEN TIMED OPEN	VB VD	V V
EWC	ELECTRIC WATER COOLER	NIC	NOT IN CONTRACT	VOL	V
EWT EXH	ENTERING WATER TEMPERATURE EXHAUST	NO NOM	NORMALLY OPEN NOMINAL	VFC VTR	V V
		NPCW	NON POTABLE COLD WATER	VTU	V
· F	FIRE PROTECTION DEGREES FAHRENHEIT			VUV	۷
F&B	FACE AND BYPASS			W	W
Ъ. ТА	FLOAT AND THERMOSTATIC FACE AREA			W&∨ WB	N N
FCU	FACE AREA FAN COIL UNIT			WC	W
				WC	W
				WG	W.
				WG WH WPD	N N N

TEMPERATURE CONTROL - PARTIAL SYMBOLS LIST

DESCRIPTION	<u>SYMBOL</u>	DESCRIPTION
CARBON DIOXIDE SENSOR	OS	OCCUPANCY SENSOR
CARBON MONOXIDE SENSOR	РТ	PRESSURE TRANSMITTER
DIFFERENTIAL PRESSURE TRANSMITTER	SP	STATIC PRESSURE SENSOR OR PROBE
FLOW METER	A	VALVE - 2 WAY CONTROL VALVE
GUARD FOR STAT OR SENSOR	を	VALVE - 3 WAY CONTROL VALVE
HUMIDISTAT OR HUMIDITY SENSOR (AS DEFINED ON TC DRAWINGS)	Ţ	THERMOSTAT OR TEMPERATURE SENSOF (AS DEFINED ON TC DRAWINGS)
	CARBON DIOXIDE SENSOR CARBON MONOXIDE SENSOR DIFFERENTIAL PRESSURE TRANSMITTER FLOW METER GUARD FOR STAT OR SENSOR HUMIDISTAT OR HUMIDITY SENSOR	CARBON DIOXIDE SENSOR OS CARBON MONOXIDE SENSOR PT DIFFERENTIAL PRESSURE TRANSMITTER SP FLOW METER SP GUARD FOR STAT OR SENSOR ST HUMIDISTAT OR HUMIDITY SENSOR T

NOTE: LIST OF ADDITIONAL SYMBOLS & ABBREVIATIONS ASSOCIATED WITH TEMPERATURE CONTROLS ARE IDENTIFIED ON TC DRAWINGS.

MECHANICAL SYMBOL LIST

	MECHANIC
DESCRIPTION	PIPING SYMBOLS
OXYGEN OUTSIDE AIR	SYMBOL D
OUTSIDE AIR OUTSIDE AIR TEMPERATURE	Αν Αν
OPPOSED BLADE DAMPER	A
ON CENTER/CENTER TO CENTER OUTSIDE DIAMETER	BFPB
OPEN ENDED DUCT OWNER FURNISHED, CONTRACTOR INSTALLED	c
OWNER FURNISHED, OWNER INSTALLED	C
OVERLOAD OVERFLOW RAIN CONDUCTOR	o <u>co</u> (
OVERFLOW ROOF DRAIN	——————————————————————————————————————
OUTSIDE SCREW AND YOKE OUTLET VELOCITY	D
OPERATOR WORKSTATION	
PACKAGED AIR CONDITIONING UNIT	F
PARALLEL BLADE DAMPER	۲ م F
PUMPED CONDENSATE PROCESS COOLING WATER	У <u>х</u>
PROCESS COOLING WATER RETURN	F
PROCESS COOLING WATER SUPPLY PRESSURE DROP (FEET OF WATER)	
PERIMETER HEAT PERIMETER HEAT RETURN	@ F
PERIMETER HEAT SUPPLY	——————————————————————————————————————
PANEL PARTS PER MILLION	F
PRESSURE	
PRESSURE REDUCING VALVE PUMPED SANITARY	Y F
PUMPED STORM	€ F
POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH – ABSOLUTE	۶ ۲ F
POUNDS PER SQUARE INCH – GAUGE	
PURIFIED WATER PURIFIED WATER RETURN	F
PURIFIED WATER SUPPLY	<u> </u>
RELOCATED	<u>— Н</u> В Н
RETURN GRILLE OR REGISTER RETURN AIR	MH
RETURN AIR TEMPERATURE	⊃© 0
RAIN CONDUCTOR RADIANT CEILING PANEL	——————————————————————————————————————
ROOF DRAIN	——————————————————————————————————————
REQUIRED ROOF EXHAUST FAN	——————————————————————————————————————
RETURN FAN	——————————————————————————————————————
Relative humidity Reencigerairnt liquid	E-3 P
REVOLUTIONS PER MINUTE	
REFRIGERANT SUCTION ROOFTOP UNIT	——————————————————————————————————————
SUPPLY AIR DIFFUSER OR GRILLE	P
Sound Attenuator Supply Air	P
SANITARY WASTE	U P
SUPPLY AIR TEMPERATURE SECTION	P
SUPPLY FAN	=P/T
SHOWER SINK	о <u>т, н</u> в
SNOW MELT RETURN	<u> Ť </u>
SNOW MELT SUPPLY STATIC PRESSURE	R
SPECIFICATION SPRINKLER	
SQUARE FOOT/SQUARE FEET	——————————————————————————————————————
START/STOP SERVICE SINK	S
STORM	s
STANDARD STACK	s
STEAM	S S
STEAM (SPECIFIC PSIG) SUMMER/WINTER	LU
SWITCH	
TRANSFER GRILLE	—————————————————————————————————————
TEMPERATURE CONTROL TEMPERING COIL	Ž
TEMPERATURE CONTROL PANEL	<u> ф </u>
TRENCH DRAIN TEMPERATURE	/∠ V
TEMPORARY	<u> </u>
TERMINAL HEATING TOTAL HEAT ABSORBED	K V
TERMINAL HEATING RETURN TOTAL HEAT REJECTED	_ ·
TERMINAL HEATING SUPPLY	
TOTAL STATIC PRESSURE (AIR) TERMINAL UNIT	⊳^%⊲ ∨
ŤURŃING VANES	@ V
TYPICAL	
	——⋈—— V
UNDERWRITER'S LABORATORY UNLESS OTHERWISE NOTED	
URINAL UNIT VENTILATOR	ð v
UNIT VENTILATOR	<u> </u>
VALVE VENT	V
VACUUM	Ŕ v
VARIABLE AIR VOLUME VACUUM BREAKER	ר א ג
VOLUME DAMPER (MANUALLY ADJUSTABLE)	<u>4</u> ₩
VOLUME VARIABLE FREQUENCY CONTROLLER	₽ v
VENT THROUGH ROOF	
VENTURI TERMINAL UNIT VERTICAL UNIT VENTILATOR	ML.
WASTE	
WASTE AND VENT	DOUBLE LINE PIPIN
WET BULB WATER CLOSET	<u>SYMBOL</u>
WATER COLUMN	F
WATER GAUGE WALL HYDRANT	F
WATER PRESSURE DROP	
WEIGHT	
TRANSFORMER	S S S

 ۸۷	DESCRIPTION
₩VŢ	AIR VENT – AUTOMATIC
BFP	AIR VENT – MANUAL BACKFLOW PREVENTER
	CATCH BASIN
	CIRCULATING PUMP
0	CLEAN OUT - IN FLOOR
^{co}	CLEAN OUT - FLANGE
	DIRECTION OF FLOW
	DIRECTION OF PITCH - DOWN
	FINNED TUBE RADIATION
ď,	FIRE PROTECTION - SIAMESE CONNECTION - FREE STANDING
Ç	FIRE PROTECTION - SIAMESE CONNECTION - WALL MOUNTED
•	FIRE PROTECTION - SPRINKLER HEAD, CONCEALED
@ 0	FIRE PROTECTION – SPRINKLER HEAD, PENDANT FIRE PROTECTION – SPRINKLER HEAD, UPRIGHT
1	FIRE PROTECTION - SPRINKLER HEAD, SIDEWALL
0	FLOOR DRAIN
	FLOOR DRAIN - ELEVATION
	FLOOR DRAIN - FUNNEL
× ×	FLOOR DRAIN – FUNNEL, ELEVATION
	FLOW MEASURING DEVICE (FOR TEST AND BALANCING)
<u>Ч^гз</u> □_гм	FLOW SWITCH
	FLOW METER
	HOSE BIBB
	MANHOLE
	OPEN SITE DRAIN
	PIPE — ANCHOR PIPE — CAP OR PLUG
	PIPE - ELBOW DOWN
o	PIPE – ELBOW UP
— E 3 ——	PIPE - EXPANSION JOINT OR COMPENSATOR
	PIPE – FLANGE
—— XXXX ————	PIPE - HOSE AND BRAID FLEXIBLE CONNECTION
	PIPE - RUBBER FLEXIBLE CONNECTION
	PIPE — GUIDE
	PIPE - TEE DOWN
0 	PIPE - TEE UP
——∥-— —=P/T	PIPE - UNION
<u>о</u>	PRESSURE AND TEMPERATURE TEST PLUG
<u>_T</u>	PRESSURE GAUGE AND COCK
	REDUCER – CONCENTRIC
	REDUCER – ECCENTRIC
—©	ROOF/OVERFLOW DRAIN STEAM TRAP - FLOAT AND THERMOSTATIC
	- STEAM TRAP - FLOAT AND THERMOSTATIC
	STRAINER
	STRAINER WITH VALVE AND BLOW-OFF
<u> </u>	
	THERMOMETER
 \$	
ـــــــــــــــــــــــــــــــــ	VALVE – ANGLE
Ó	VALVE – BALL
	VALVE – BUTTERFLY
وخي	VALVE – BALANCE (i.e. BALANCE VALVE TO 0.5 GPM)
——————————————————————————————————————	
⊠ ⊠	VALVE — COMBINATION BALANCE & FLOW MEASURING (i.e. BALANCE VALVE TO 0.5 GPM)
— H	VALVE – CHECK
⊠ _{0.5}	VALVE – CHECK VALVE – SPRING CHECK
⊠ _{0.5}	VALVE – CHECK VALVE – SPRING CHECK VALVE – GAS (MANUAL)
	VALVE – CHECK VALVE – SPRING CHECK VALVE – GAS (MANUAL) VALVE – GLOBE
⊠ _{0.5}	VALVE – CHECK VALVE – SPRING CHECK VALVE – GAS (MANUAL) VALVE – GLOBE VALVE – ISOLATION
⊠ _{0.5} 	VALVE – CHECK VALVE – SPRING CHECK VALVE – GAS (MANUAL) VALVE – GLOBE VALVE – ISOLATION VALVE – NEEDLE
	VALVE – CHECK VALVE – SPRING CHECK VALVE – GAS (MANUAL) VALVE – GLOBE VALVE – ISOLATION VALVE – NEEDLE VALVE – OS&Y
⊠ _{0.5}	VALVE – CHECK VALVE – SPRING CHECK VALVE – GAS (MANUAL) VALVE – GLOBE VALVE – ISOLATION VALVE – NEEDLE VALVE – OS&Y VALVE – PLUG
 □ □ 0.5 □ <li< th=""><th>VALVE – CHECK VALVE – SPRING CHECK VALVE – GAS (MANUAL) VALVE – GLOBE VALVE – ISOLATION VALVE – NEEDLE VALVE – OS&Y VALVE – PLUG VALVE – PRESSURE REGULATING</th></li<>	VALVE – CHECK VALVE – SPRING CHECK VALVE – GAS (MANUAL) VALVE – GLOBE VALVE – ISOLATION VALVE – NEEDLE VALVE – OS&Y VALVE – PLUG VALVE – PRESSURE REGULATING
 ₩ 0.5 ₩ 4 ∞ 1 № ∞ 1 № №<	VALVE – CHECK VALVE – SPRING CHECK VALVE – GAS (MANUAL) VALVE – GLOBE VALVE – ISOLATION VALVE – NEEDLE VALVE – OS&Y VALVE – PLUG
 □ □ 1 1 0 /ul>	VALVE – CHECK VALVE – SPRING CHECK VALVE – GAS (MANUAL) VALVE – GLOBE VALVE – ISOLATION VALVE – NEEDLE VALVE – OS&Y VALVE – PLUG VALVE – PRESSURE REGULATING
Image: state	VALVE – CHECK VALVE – SPRING CHECK VALVE – GAS (MANUAL) VALVE – GLOBE VALVE – ISOLATION VALVE – NEEDLE VALVE – OS&Y VALVE – PLUG VALVE – PRESSURE REGULATING VALVE – PRESSURE REDUCING VALVE – PRESSURE RELIEF
	VALVE - CHECK VALVE - SPRING CHECK VALVE - GAS (MANUAL) VALVE - GLOBE VALVE - ISOLATION VALVE - NEEDLE VALVE - NEEDLE VALVE - PLUG VALVE - PRESSURE REGULATING VALVE - PRESSURE REDUCING VALVE - PRESSURE RELIEF VALVE - PRESSURE & TEMPERATURE RELIEF
× × × × ×	VALVE - CHECK VALVE - SPRING CHECK VALVE - GAS (MANUAL) VALVE - GLOBE VALVE - ISOLATION VALVE - NEEDLE VALVE - NEEDLE VALVE - PLUG VALVE - PRESSURE REGULATING VALVE - PRESSURE REDUCING VALVE - PRESSURE RELIEF VALVE - PRESSURE & TEMPERATURE RELIEF VALVE - PRESSURE & TEMPERATURE RELIEF VALVE - PRESSURE & TEMPERATURE RELIEF
	VALVE - CHECK VALVE - SPRING CHECK VALVE - GAS (MANUAL) VALVE - GLOBE VALVE - ISOLATION VALVE - ISOLATION VALVE - NEEDLE VALVE - OS&Y VALVE - PLUG VALVE - PRESSURE REGULATING VALVE - PRESSURE REDUCING VALVE - PRESSURE RELIEF VALVE - PRESSURE & TEMPERATURE RELIEF VALVE HYDRANT
	VALVE - CHECK VALVE - SPRING CHECK VALVE - GAS (MANUAL) VALVE - GLOBE VALVE - ISOLATION VALVE - ISOLATION VALVE - NEEDLE VALVE - OS&Y VALVE - PLUG VALVE - PRESSURE REGULATING VALVE - PRESSURE REDUCING VALVE - PRESSURE RELIEF VALVE - PRESSURE RELIEF VALVE - PRESSURE & TEMPERATURE RELIEF VENT THROUGH ROOF WALL HYDRANT
	VALVE - CHECK VALVE - SPRING CHECK VALVE - GAS (MANUAL) VALVE - GLOBE VALVE - ISOLATION VALVE - NEEDLE VALVE - NEEDLE VALVE - OS&Y VALVE - PLUG VALVE - PRESSURE REGULATING VALVE - PRESSURE REDUCING VALVE - PRESSURE RELIEF VALVE - PRESSURE RELIEF VALVE - PRESSURE & TEMPERATURE RELIEF VENT THROUGH ROOF WALL HYDRANT IPING SYMBOLS DESCRIPTION
	VALVE - CHECK VALVE - SPRING CHECK VALVE - GAS (MANUAL) VALVE - GLOBE VALVE - ISOLATION VALVE - NEEDLE VALVE - NEEDLE VALVE - OS&Y VALVE - PLUG VALVE - PRESSURE REGULATING VALVE - PRESSURE REDUCING VALVE - PRESSURE RELIEF VALVE - PRESSURE RELIEF VALVE - PRESSURE & TEMPERATURE RELIEF VENT THROUGH ROOF WALL HYDRANT IPING SYMBOLS DESCRIPTION FLANGE
	VALVE - CHECK VALVE - SPRING CHECK VALVE - GAS (MANUAL) VALVE - GLOBE VALVE - ISOLATION VALVE - NEEDLE VALVE - NEEDLE VALVE - PLUG VALVE - PRESSURE REGULATING VALVE - PRESSURE REDUCING VALVE - PRESSURE RELIEF VALVE - PRESSURE & TEMPERATURE RELIEF VALL HYDRANT IPING SYMBOLS DESCRIPTION FLANGE FLEX CONNECTION
	VALVE - CHECK VALVE - SPRING CHECK VALVE - GAS (MANUAL) VALVE - GLOBE VALVE - ISOLATION VALVE - NEEDLE VALVE - NEEDLE VALVE - OS&Y VALVE - PLUG VALVE - PRESSURE REGULATING VALVE - PRESSURE REDUCING VALVE - PRESSURE RELIEF VALVE - PRESSURE RELIEF VALVE - PRESSURE & TEMPERATURE RELIEF VENT THROUGH ROOF WALL HYDRANT IPING SYMBOLS DESCRIPTION FLANGE
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	VALVE - CHECK VALVE - SPRING CHECK VALVE - GAS (MANUAL) VALVE - GLOBE VALVE - ISOLATION VALVE - NEEDLE VALVE - NEEDLE VALVE - PLUG VALVE - PRESSURE REGULATING VALVE - PRESSURE REDUCING VALVE - PRESSURE RELIEF VALVE - PRESSURE & TEMPERATURE RELIEF VALVE - VALVE -
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<u>DUCTWORK SY</u> <u>SYMBOL</u>	<u>MBOLS</u> <u>DESCRIPTION</u>
<u>5</u>	AIR TERMINAL UNIT
└─┛ <u>⊤∪−101</u> └────────────────────────────────────	AIR TERMINAL UNIT WITH HEATING COIL
(VENTURI AIR TERMINAL UNIT
) L	
	VENTURI AIR TERMINAL UNIT WITH HEATING COIL
	DAMPER – HORIZONTAL FIRE (EXISTING, NEW)
	DAMPER – HORIZONTAL FIRE / SMOKE (EXISTING, NEW)
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	DAMPER – SMOKE (EXISTING, NEW)
~	DAMPER – VERTICAL FIRE (EXISTING, NEW)
O B DD	DAMPER - VERTICAL FIRE / SMOKE (EXISTING, NEW)
	DAMPER – BACK DRAFT
Ш	DAMPER – MOTORIZED
	DAMPER – VOLUME (MANUALLY ADJUSTABLE)
	DIFFUSER – BLANK OFF
	DIFFUSER – LINEAR SLOT
	DIFFUSER – SQUARE OR RECTANGULAR
\bowtie	DUCT CROSS SECTION - SUPPLY
	DUCT CROSS SECTION - RETURN OR EXHAUST
\square	DUCT CROSS SECTION - EXHAUST
	DUCT - FLEXIBLE CONNECTION
	DUCT – FLEXIBLE DUCT
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) Ţ,	DUCT TAKE-OFF - ROUND CONICAL
کر کر	DUCT TAKE-OFF - RECTANGULAR WITH SHOE TAP
ل ب	ELBOW - RECTANGULAR WITH TURNING VANES
5	ELBOW - RECTANGULAR/ ROUND SMOOTH RADIUS
₹ ₩	ELBOW DOWN - RECTANGULAR
	ELBOW DOWN - ROUND
<u>,</u> X	ELBOW UP - RECTANGULAR
\leftarrow	ELBOW UP - ROUND
	FAN – AXIAL
	FAN – CENTRIFUGAL (ELEVATION)
↓ ↓	HEATING COIL
	INCLINED DROP IN DIRECTION OF AIRFLOW
, , , , , , , , , , , , , , , , , , ,	INCLINED RISE IN DIRECTION OF AIRFLOW
}_∓≃⊢_) ⊏_⊐	
	INTAKE OR RELIEF HOOD
<u> </u>	REGISTER – RETURN OR EXHAUST
	REGISTER - RETURN WITH BOOT
	REGISTER – TRANSFER GRILLE
$\langle \widehat{\square} \rangle$	ROOF EXHAUST FAN
<>-<	TRANSITION - CONCENTRIC
	TRANSITION - ECCENTRIC
)U) T	
<u>_</u>	UNIT HEATER - HORIZONTAL THROW
\bigcirc	UNIT HEATER - VERTICAL THROW
<u>DOUBLE LINE [</u> SYMBOL	DUCTWORK SYMBOLS DESCRIPTION
	DUCT TAKE-OFF - RECTANGULAR WITH SHOE TAP
	DUCT TAKE-OFF - ROUND CONICAL
	ELBOW - RECTANGULAR WITH TURNING VANES
	ELBOW – RECTANGULAR SHORT RADIUS WITH SPLITTER VANES
8	ELBOW – ROUND
Ę	ELBOW - RECTANGULAR SMOOTH RADIUS
<u></u> <u></u> <u></u>	ELBOW DOWN - RECTANGULAR
	ELBOW DOWN - ROUND
	ELBOW UP - RECTANGULAR
	ELBOW UP - ROUND
↓ ↓	HEATING COIL
┝── ■ ─┤ ┟┬╦┬┥	
<u>≹∣≞</u> ∣≹ ⊢⊤ <u>⊸</u> ⊤⊣	INCLINED DROP IN DIRECTION OF AIRFLOW
	INCLINED RISE IN DIRECTION OF AIRFLOW
	TRANSITION - CONCENTRIC
	TRANSITION - ECCENTRIC

SENSOR

XFMR

MECHANICAL DRAWING INDEX

<u>SHEET NO.</u>	<u>SHEET_TITLE</u>
M0.1	MECHANICAL STANDARDS AND DRAWING INDEX
ME1.1	MECHANICAL AND ELECTRICAL ROOF PLAN – PHASE 2
ME1.2	MECHANICAL AND ELECTRICAL ROOF PLAN – PHASE 3
M4.1E	FIRST FLOOR SHEET METAL PLAN – ZONE E
M5.1	ENLARGED MECHANICAL ROOM PLANS
M6.1	MECHANICAL DETAILS
M7.1	MECHANICAL SCHEDULES
M7.2	MECHANICAL SCHEDULES
М7.3	MECHANICAL SCHEDULES
M8.1	TEMPERATURE CONTROL STANDARDS AND GENERAL NOTES
M8.2	TEMPERATURE CONTROLS

S-1 10ø 350-4	SUPPLY DIFFUSER WITH SCHEDULE TAG "1", 10" DIAMETER NECK SIZE 350 CFM TYPICAL FOR 4
R−1 22x22 640−2	RETURN REGISTER WITH SCHEDULE TAG "1", 22"x 22" NECK SIZE 640 CFM TYPICAL FOR 2 EXHAUST REGISTER E DESIGNATION SIMILAR.
	AIR TERMINAL UNIT WITH HEATING COIL NO. 101 WITH SERVICE CLEARANCE SHOWN
	VENTURI AIR TERMINAL WITH HEATING COIL NO. 101 WITH SERVICE CLEARANCE SHOWN
	PIPE DIAMETER NOTATION ALL SIZES IN INCHES
8¢ 22x10 18x14¢	DUCT SIZE NOTATION ALL SIZES IN INCHES
	— OVAL DUCT — RECTANGULAR DUCT
$\langle 1 \rangle$	CONSTRUCTION NOTE NUMBER
EF 1	EQUIPMENT DESIGNATION, (i.e. EXHAUST FAN NUMBER 1)
HW-1	PIPING RISER DESIGNATION (i.e. HOT WATER RISER NUMBER 1)
	— SECTION OR PLAN NUMBER
MO.I	
	PLAN NUMBER
	- SHEET WHERE ENLARGED PLAN IS DRAWN
	TION OR ENLARGED PL
M5.1 SCALE	- SHEET WHERE SECTION IS CUT OR ENLARGED PLAN IS REFERENCED
<u>SHEET M1.0</u> SHEET M1.1	MATCH LINE
	HEAVY LINE WEIGHT INDICATES NEW WORK
	LIGHT LINE WEIGHT INDICATES EXISTING EQUIPMENT OR REFERENCED INFORMATION
	GRAY LINE INDICATES BACKGROUND INFORMATION
	DASHED LINES INDICATE PIPING ROUTED BELOW SLAB OR GRADE
	HATCH MARKS INDICATE EQUIPMENT OR MATERIALS TO BE DISCONNECTED AND REMOVED.

NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.



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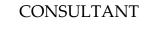
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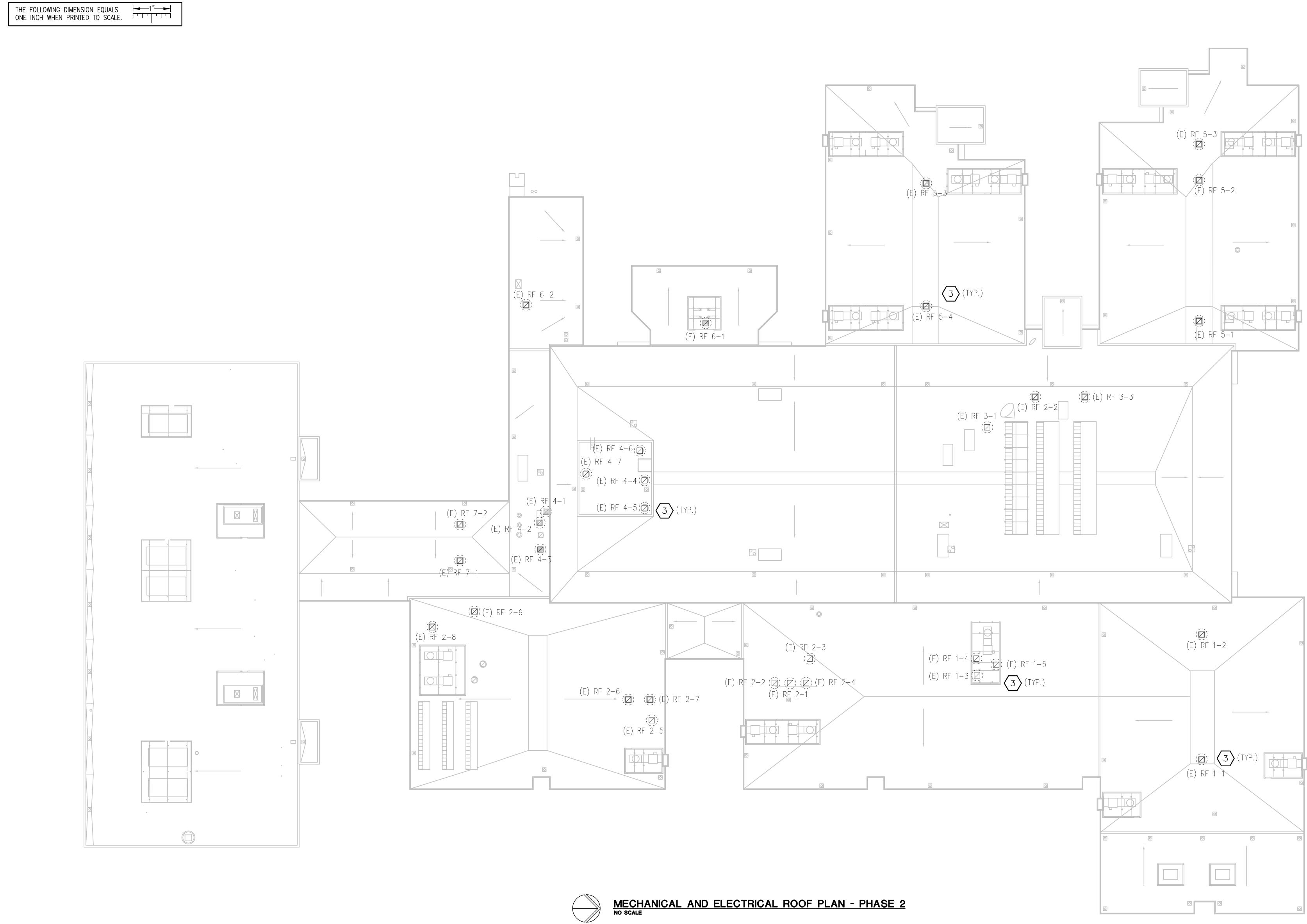


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REGISTRATION SEAL

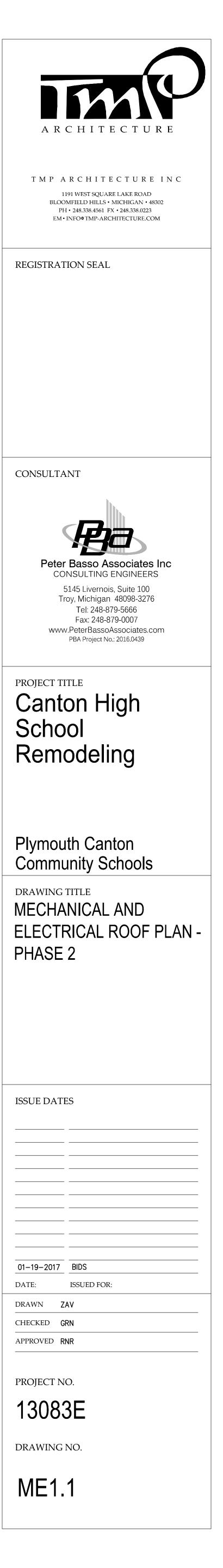
TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302

ARCHITECTURE PH•248.338.4561 FX •248.338.0223 EM • INFO@ TMP-ARCHITECTURE.COM





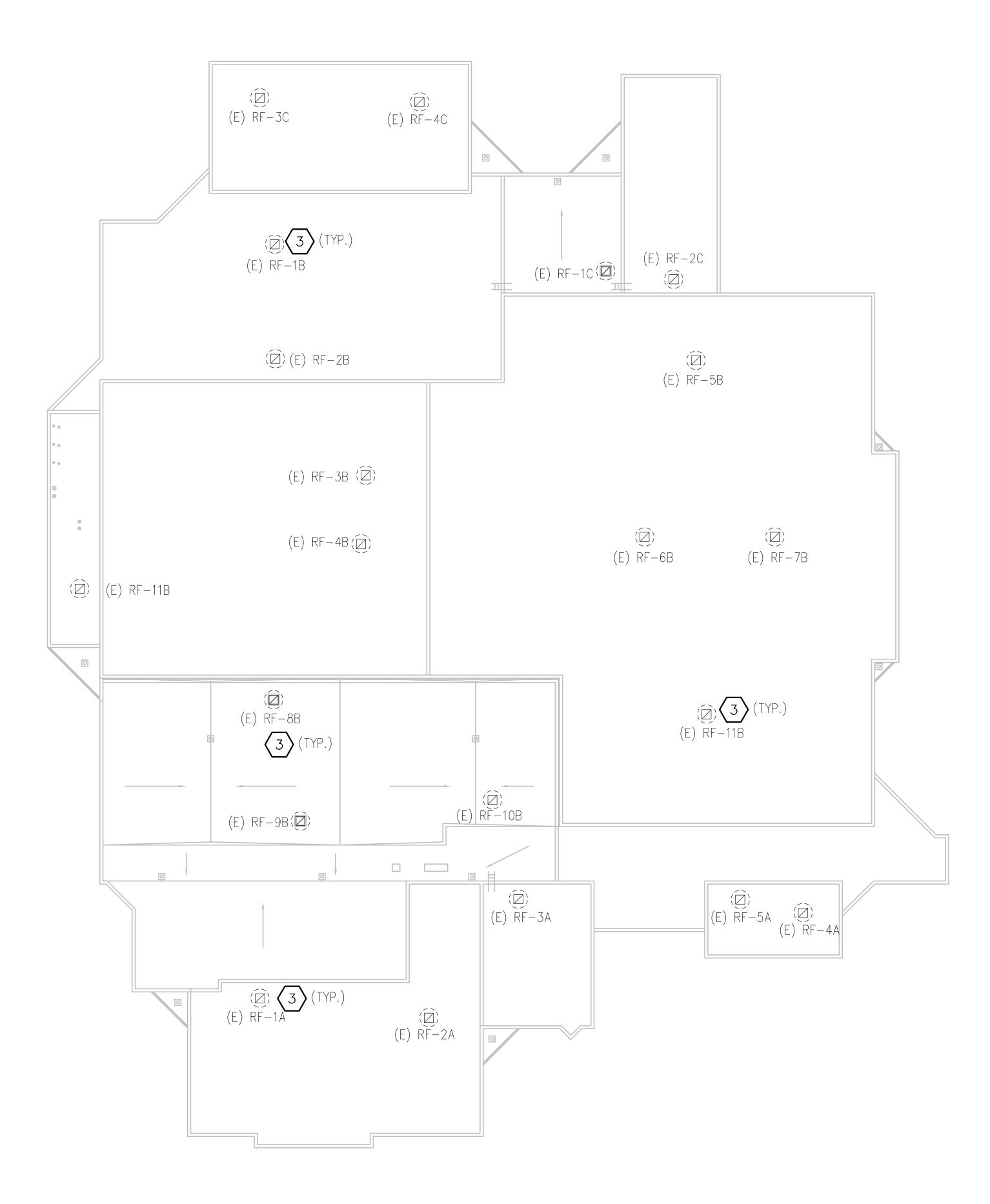
NOTE: REFER TO SHEET M5.1 FOR CONSTRUCTION NOTES



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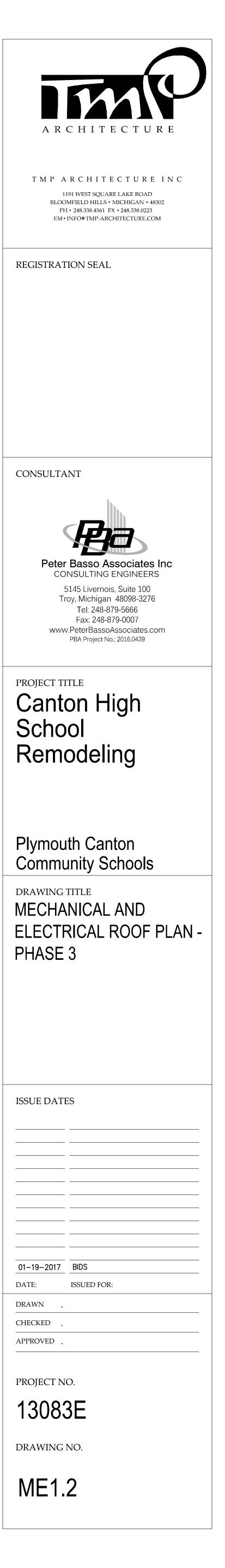
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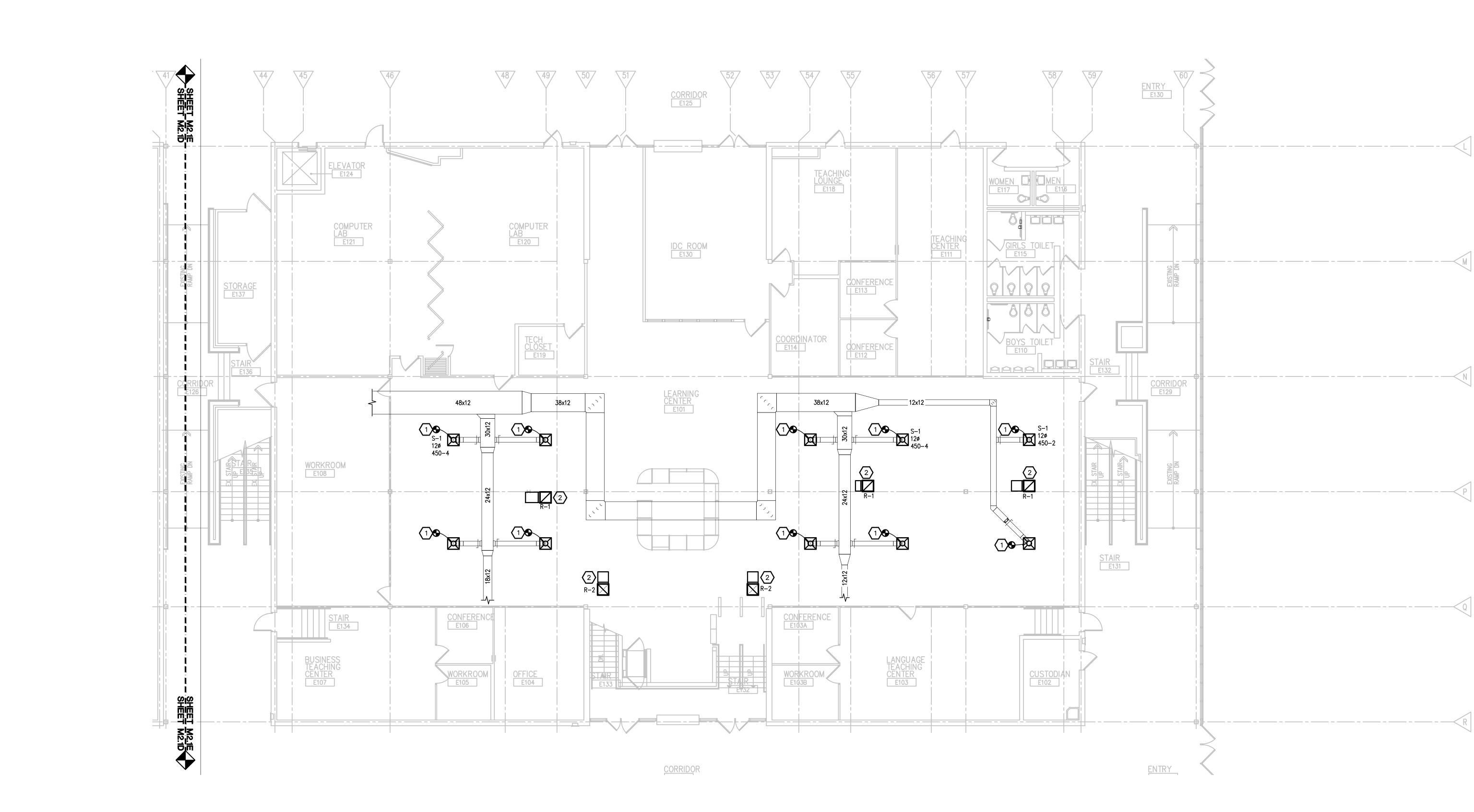




MECHANICAL AND ELECTRICAL ROOF PLAN - PHASE 3

NOTE: REFER TO SHEET M5.1 FOR CONSTRUCTION NOTES





THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



FIRST FLOOR SHEET METAL PLAN - ZONE E SCALE: 1/8" - 1" - 0"

MECHANICAL GENERAL DEMOLITION NOTES:

- THE ENGINEER.

SHEET METAL GENERAL NOTES:

- OTHER SPACE CONSTRAINTS.
- 3. PIPING AND DUCTWORK SHALL NOT BE INSTALLED ABOVE ELECTRICAL
- TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- SYSTEMS.

ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE. 2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. ACTUAL ROUTING AND SIZES OF EXISTING PIPING AND DUCTWORK MIGHT DIFFER TO A LIMITED EXTENT FROM WHAT IS SHOWN. MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE REPORTED TO

3. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK. 4. ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR

2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.

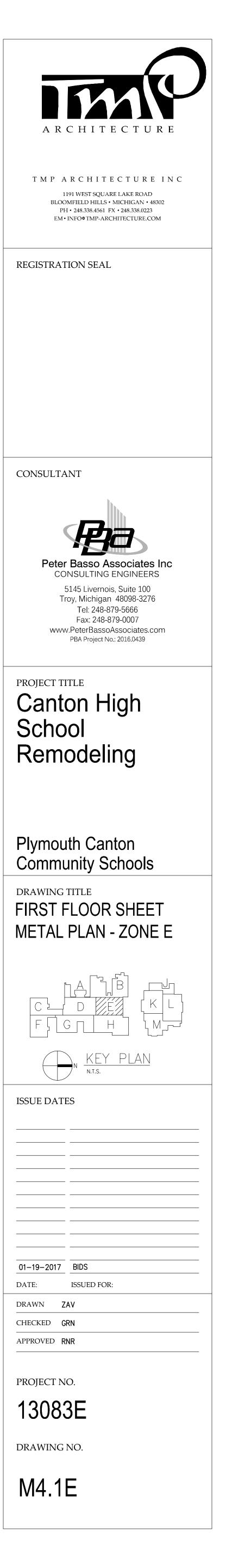
TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS. 4. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER

5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL

6. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.

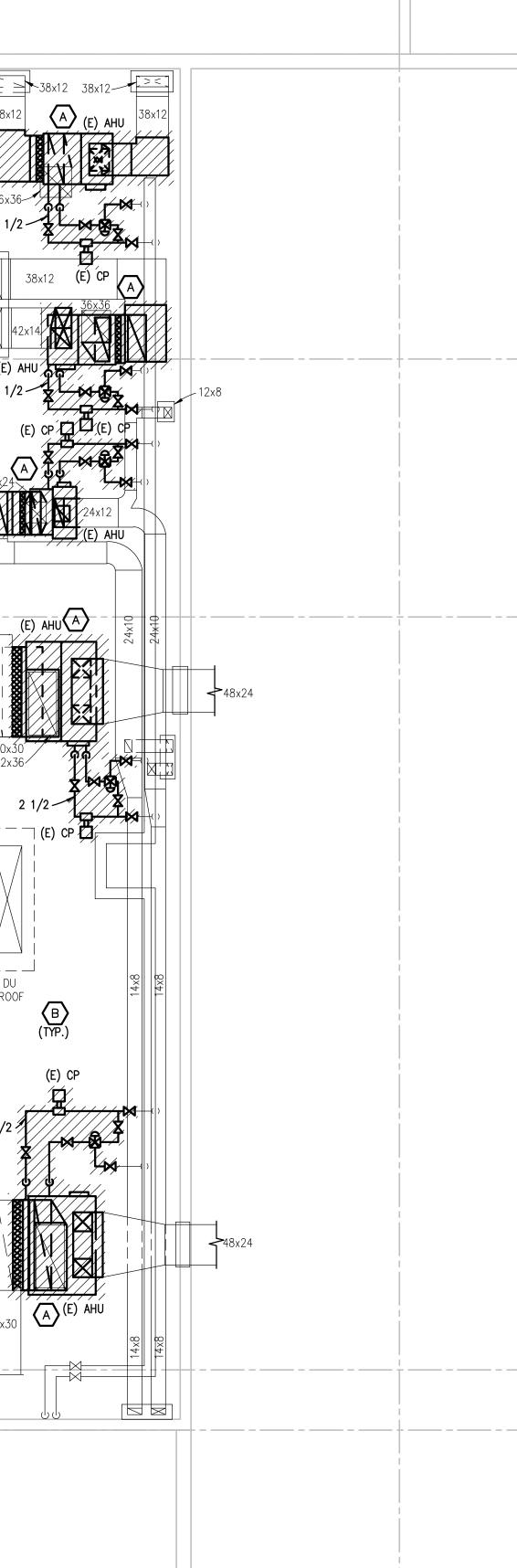
CONSTRUCTION NOTES:

- 1. REPLACE EXISTING SUPPLY DIFFUSER WITH NEW DIFFUSER AS INDICATED. EXTEND EXISTING DUCTWORK AS REQUIRED FOR NEW CONSTRUCTION. CONTRACTOR TO PROVIDE PRE-DEMOLITION AIRFLOW READINGS AND RE-BALANCE NEW DIFFUSER TO EXISTING CFM.
- 2. REPLACE EXISTING RETURN GRILLE WITH NEW RETURN GRILL ASSEMBLY.



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- WORK. ACTUAL ROUTING AND SIZES OF EXISTING PIPING AND DUCTWORK MIGHT DIFFER TO A LIMITED EXTENT FROM WHAT IS SHOWN. MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER.
- 3. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK. 4. ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.



MOLITION PLAN

LITION KEY NOTES:

FING AIR HANDLING UNIT IN ORDER TO BE REPLACED. SALVAGE ALL TWORK AND DUCTWORK CONNECTIONS TO THE UNIT IN ORDER TO SALVAGE AND ASSESS ALL DUCTWORK NEEDED TO BE DEMOED IN LOW FOR UNIT REPLACEMENT. PREPARE SUPPLY, RETURN, RELIEF AND OUTSIDE AIR DUCTWORK FOR CONNECTION TO NEW AIR HANDLING UNIT. REMOVE EXISTING HOT WATER PIPING ACCESSORIES AND CONTROLS IN ORDER TO BE REPLACED. PREPARE PIPING FOR NEW CONNECTIONS.

B. BALANCING CONTRACTOR TO PERFORM PRE-DEMOLITION AIR FLOW, WATER FLOW AND PRESSURE READINGS ON ALL AIR HANDLING EQUIPMENT TO BE REPLACED. FORWARD RESULTS TO ENGINEER FOR REVIEW AND ANALYSIS. C. REMOVE EXISTING CONDENSER ON THE ROOF INCLUDING REFRIGERANT PIPING AND

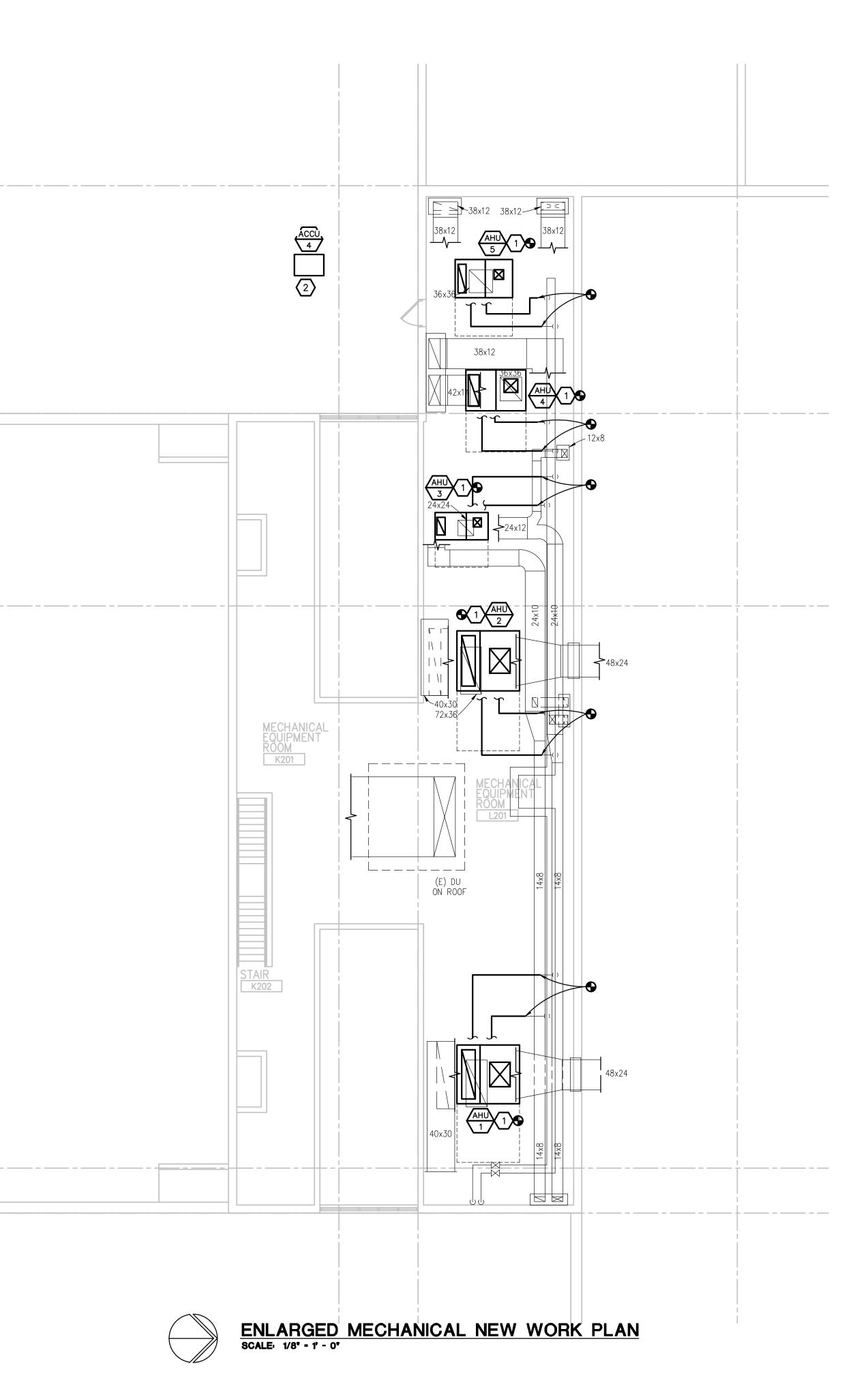
CONTROLS IN ORDER TO BE REPLACED. CONTRACTOR TO ASSESS IF EXISTING SUPPORT COULD BE RE-USED FOR THE NEW UNIT.

SHEET METAL GENERAL NOTES:

- 1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
- 2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- PIPING AND DUCTWORK SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
- 4. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- SYSTEMS.

5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL

6. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.



HVAC PIPING GENERAL NOTES:

THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.

- 2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- 3. PIPING AND DUCTWORK SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
- 4. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- 5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS. 6. SUBMIT PROPOSED METHODS OF ANCHORING AND GUIDING PIPING SYSTEMS TO
- STRUCTURAL ENGINEER FOR APPROVAL. 7. COORDINATE LOCATION OF DUCT-MOUNTED HYDRONIC DEVICES WITH SHEET METAL
- TRADES. 8. MOUNT THERMOSTATS 48" A.F.F., UNLESS OTHERWISE NOTED. LOCATE AS CLOSE AS POSSIBLE TO DOOR WHEN INDICATED NEAR DOOR. COORDINATE EXACT LOCATION WITH ALL OTHER TRADES.

EXAMPLE 7 CONSTRUCTION NOTES

- NEW AIR HANDLING UNIT. COORDINATE EXACT LOCATION WITH EXISTING DUCTWORK CONNECTIONS. CONTRACTOR TO RE-USE AS MUCH AS POSSIBLE OF THE EXISTING DUCTWORK AND PROVIDE NEW DUCTWORK CONNECTIONS WHERE NECESSARY. EXTEND EXISTING EQUIPMENT PAD AS REQUIRED TO ACCOMMODATE NEW UNIT DIMENSIONS. PROVIDE NEW PIPING WHERE REQUIRED BY THE DEMOLITION WORK. PROVIDE NEW PIPING CONNECTIONS WITH NEW VALVE ACCESSORIES AND CONTROLS. REFER TO DETAILS FOR PIPING DIAGRAMS. CONTRACTOR TO COORDINATE NEW UNIT INSTALLATION WITH EXISTING CONDITIONS PRIOR TO PLACING FINAL ORDER ON THE UNIT
- NEW CONDENSING UNIT MOUNTED ON THE ROOF ON EQUIPMENT RAILS. COORDINATE EXACT LOCATION WITH STRUCTURAL AND EXISTING CONDITIONS. ROUTE NEW PIPING THROUGH EXISTING HOLES FROM DEMOLISHED CONDENSING UNIT.
- REMOVE AND REPLACE EXISTING ROOF EXHAUST FAN WITH NEW EXHAUST FAN. CONTRACTOR TO VERIFY EXISTING ROOF CURB CONDITION. PROVIDE NEW CURB OR CURB ADAPTOR IN CASE CURB CAN'T BE RE-USED. DISCONNECT POWER FROM EXISTING FAN AND RECONNECT CIRCUITING TO NEW FAN. EXTEND EXISTING CIRCUITING AS REQUIRED. PROVIDE NEW STARTER SIZED AS REQUIRED. RE-CONNECT FAN TO EXISTING CONTROLS. IF THE FAN IS ON SWITCH VERIFY CONDITION AND CONFIRM OPERATION. CONTRACTOR TO VERIFY EXISTING DUCTWORK TO BE CONNECTED AND OPERATIONAL. VERIFY IF NEW MOTORIZED DAMPER SHOULD BE PROVIDED OR EXISTING DAMPER CAN BE RE-USED. COORDINATE ALL REQUIREMENTS BEFORE PLACING THE ORDER ON THE FAN. NOTE: PCCS DISTRICT TO IDENTIFY THE FANS TO BE REPLACED. FOR INFO REFER TO SHEET M7.3.



DRAWING NO.

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PROJECT NO.

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01–19–2017 BIDS
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Community Schools DRAWING TITLE ENLARGED MECHANICAL ROOM PLANS



Plymouth Canton

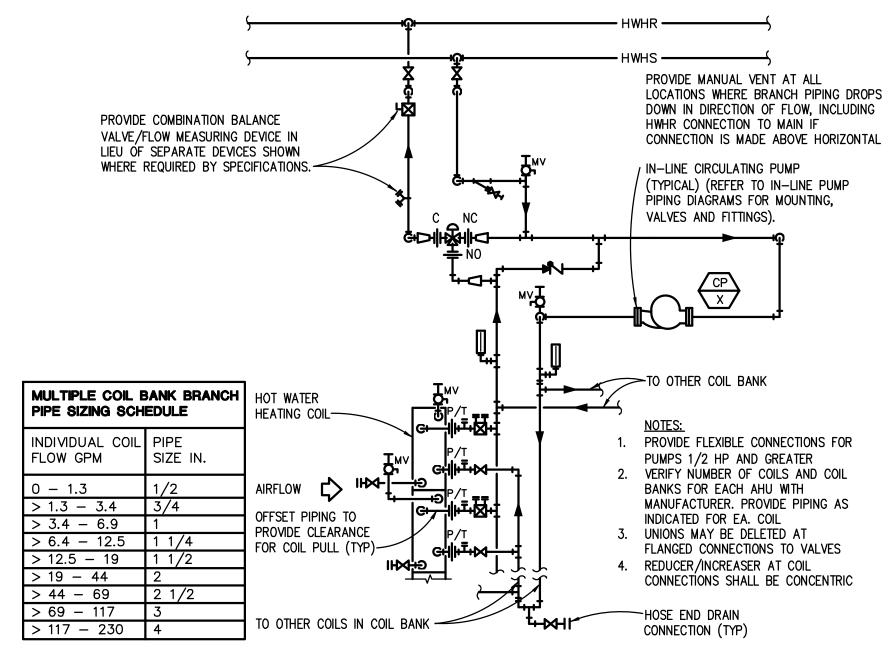


CONSULTANT

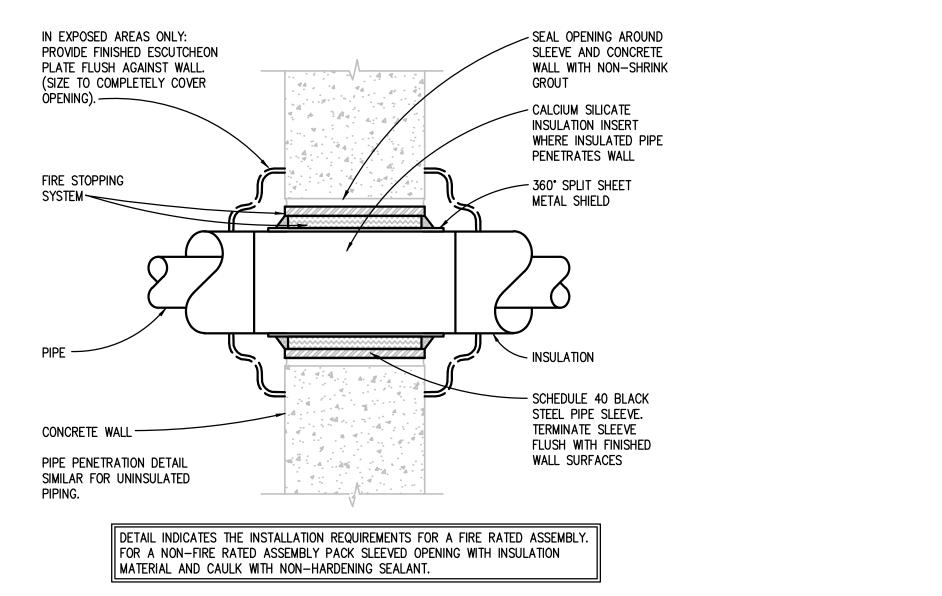
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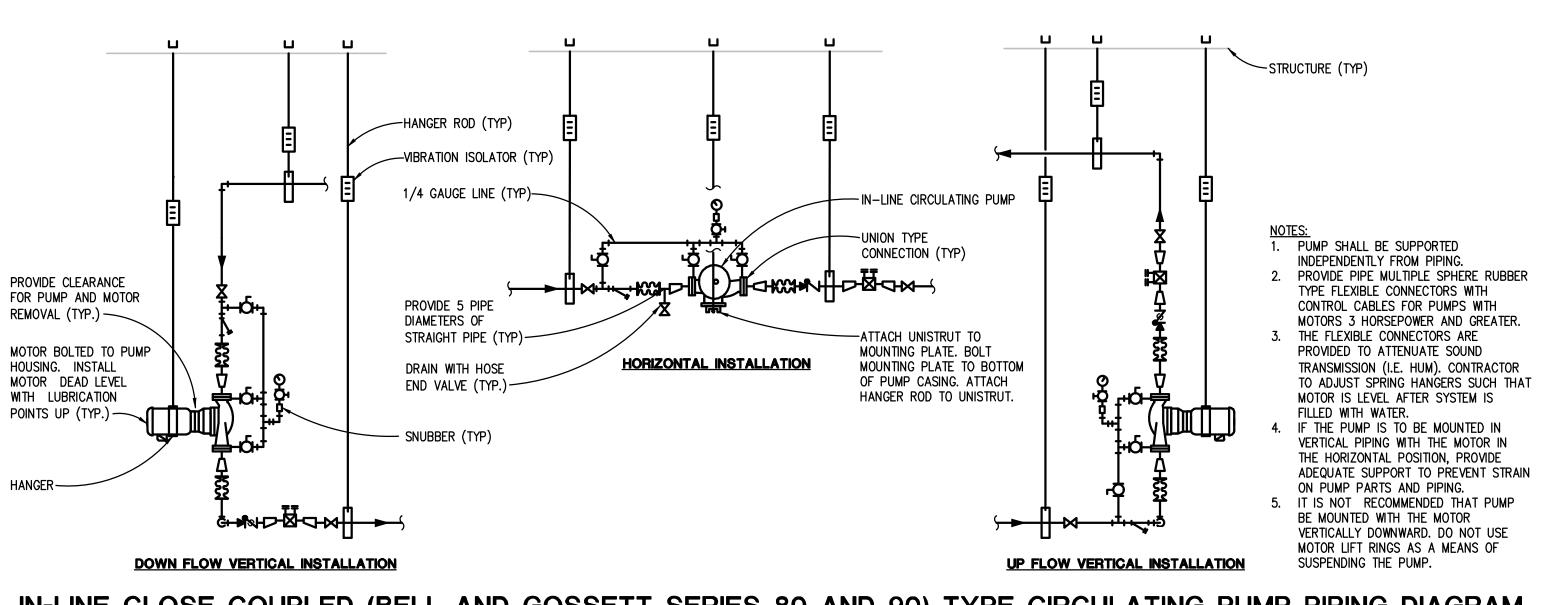
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FIRE RATED AND NON-FIRE RATED POURED CONCRETE OR BLOCK WALL PIPE PENETRATION DETAIL NO SCALE



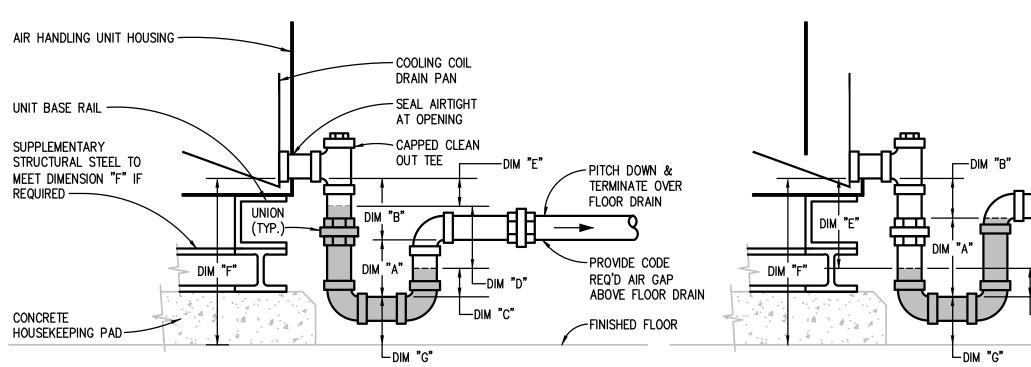
IN-LINE CLOSE COUPLED (BELL AND GOSSETT SERIES 80 AND 90) TYPE CIRCULATING PUMP PIPING DIAGRAM NO SCALE

											
			TI	RAP DI	MENSIO	N TABL	.E				
S.P. AT CO		S.P. AT COIL DIMENSION "A		DIMENSION "C"			DIMENSION "F" (INCHES)				
TYPE OF SYSTEM	DRAIN PAN (IN.)	N (IN.) (INCHES)	DIMENSION "B" (INCHES)	(INCHES)	DIMENSION "D" (INCHES)	" DIMENSION "E" (INCHES)	DRAIN PIPE SIZE (INCHES)				
0101EM	(NOTE A)			(TRAP SEAL)	(INONEO)		1 1/2	2	2 1/2, 3	4	
	-5.1 TO -6	5.0	5.0	2	6	2	13.0	14.0	15.0	16.0	
DUGH	-4.1 TO -5	4.5	4.5	2	5	2	12.0	13.0	14.0	15.0	
DRAW THROUGH	-3.1 TO -4	4.0	4.0	2	4	2	11.0	12.0	13.0	14.0	
DRAW	-2.1 TO -3	3.5	3.5	2	3	2	10.0	11.0	12.0	13.0	
	UP TO -2	3.0	3.0	2	2	2	9.0	10.0	11.0	12.0	
	UP TO +2	4.0	2.0	2	2	4	9.0	10.0	11.0	12.0	
DUGH	+2.1 TO +3	5.0	2.0	2	3	5	10.0	11.0	12.0	13.0	
BLOW THROUGH	+3.1 TO +4	6.0	2.0	2	4	6	11.0	12.0	13.0	14.0	
BLOW	+4.1 TO +5	7.0	2.0	2	5	7	12.0	13.0	14.0	15.0	
	+5.1 TO +6	8.0	2.0	2	6	8	13.0	14.0	15.0	16.0	

NOTES: A. REFER TO AIR HANDLING UNIT SCHEDULE FOR (-) OR (+) STATIC PRESSURE AT COIL DRAIN PAN.

B. DIMENSION "G" IS MIN: 3" FOR UP TO 1 1/2" DRAIN PIPE

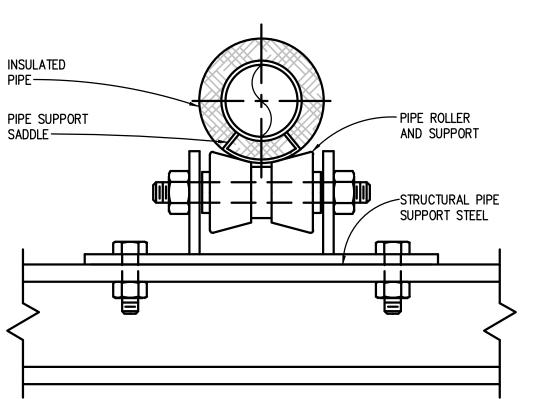
4" FOR 2" DRAIN PIPE 5" FOR 2 1/2" OR 3" DRAIN PIPE 6" FOR 4" DRAIN PIPE



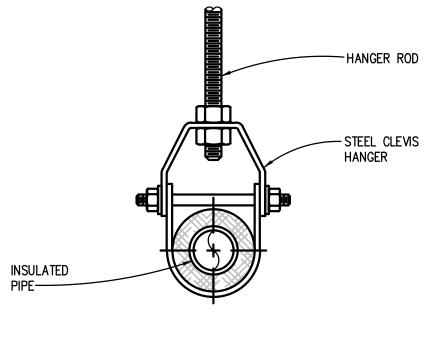
DRAW THROUGH

BLOW THROUGH

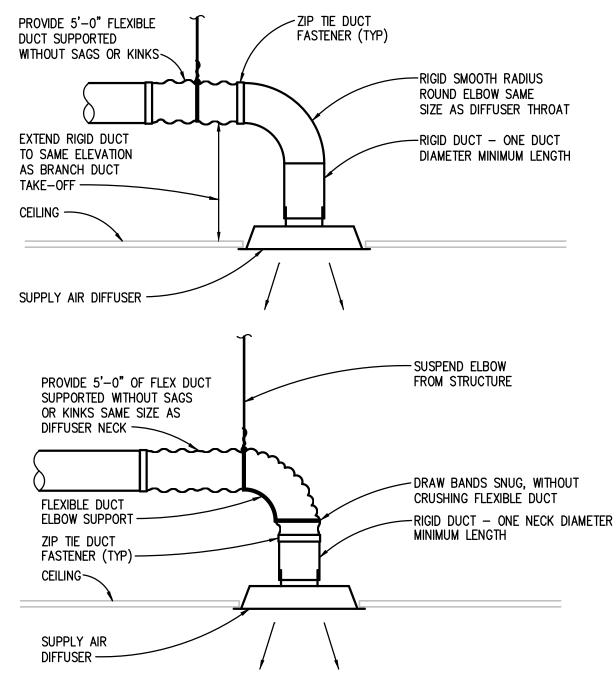




INSULATED PIPE SUPPORT DETAIL

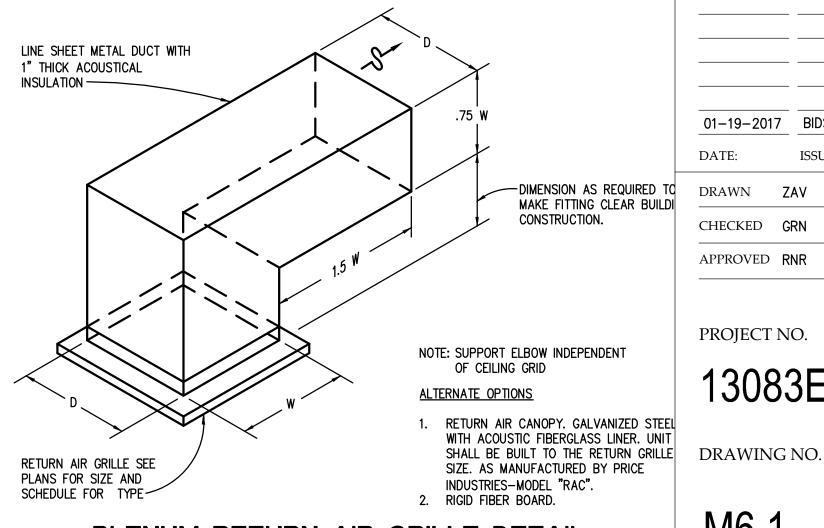


INSULATED PIPE HANGER DETAIL



ROUND NECK SUPPLY AIR DIFFUSER DETAIL NO SCALE





PLENUM RETURN AIR GRILLE DETAIL

NO SCALE

- SUSPEND ELBOW FROM STRUCTURE

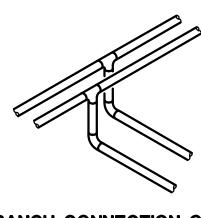
ROUND ELBOW SAME SIZE AS DIFFUSER THROAT -RIGID DUCT - ONE DUCT DIAMETER MINIMUM LENGTH

LABORATORY GASES

LABORATORY VACUUM

COMPRESSED AIR

NATURAL GAS



TYPICAL CONDENSING UNIT SUPPORT DETAIL

---PATE TYPE ES-5 EQUIPMENT SUPPORT

(SEE NOTE)

~roof

BRANCH CONNECTION OFF TOP APPLIES TO THE FOLLOWING SYSTEMS: DOMESTIC WATER STEAM & CONDENSATE

NO SCALE

FACTORY INSTALLED

DISCONNECT SWITCH-

CURB CAP WITH

VENTURI INLET-

FLASHING-

ROOF-

WIRING -

MOTORIZED DAMPER BELOW ROOF DECK

(UNLESS NOTED

ÒTHERWISE) —

NO SCALE

NOTE. CUT EXISTING ROOFING SUCH THAT

PROVIDE FLASHING AS NECESSARY.

SUPPORT RESTS DIRECTLY ON ROOF DECK.

BRANCH CONNECTION OFF BOTTOM APPLIES TO THE FOLLOWING SYSTEMS: HOT WATER HEATING CHILLED WATER CONDENSER WATER ENERGY RECOVERY PROCESS COOLING WATER NOTE: BOTTOM AS INDICATED OR SIDE CONNECTION IS ACCEPTABLE. CONNECTION ABOVE CENTERLINE OF MAINS IS NOT ACCEPTABLE.

-BIRD SCREEN (TYP)

FOR CURB HEIGHT)

DETAIL SIMILAR FOR

UP-BLAST EXHAUST FAN.

-EXHAUST DUCT

NOTE:

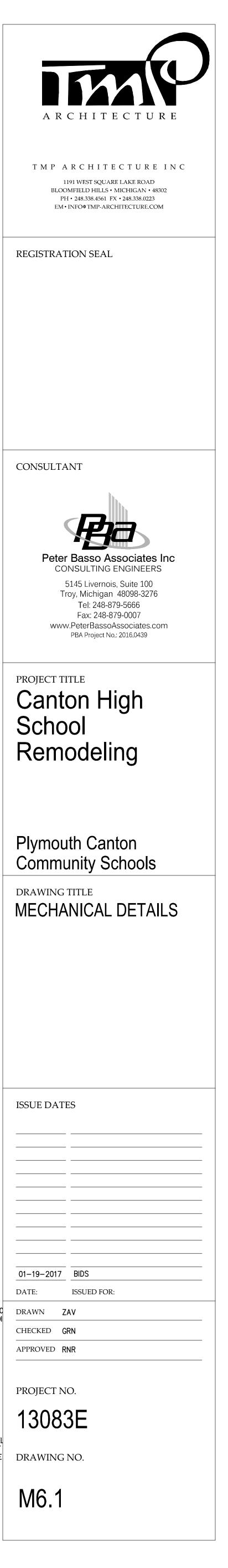
ROOF MOUNTED POWER VENTILATOR EXHAUST FAN DETAIL

- ROOF CURB (REFER TO POWER VENTILATOR SCHEDULE

-FAN BLADES

TYPICAL BRANCH TAKE-OFF **CONNECTION PIPING DETAIL**

NO SCALE



DUC	CT S	SY8	STE	M	AP	PLI		TIC	ON	SC	CHE	EDI	JLE					
						D	UCT M	ATERIA	L									
AIR SYSTEMS	G90 GALV. SHEET METAL	DOUBLE-WALL LINED G90 GALV. SHEET METAL (SOLID INNER WALL)	DOUBLE-WALL LINED G90 GALV. SHEET METAL (PERF. INNER WALL)	G90 GALV. SHEET METAL WITH 1-INCH LINING	GALVANNEALED SHEET METAL	ALUMINUM	TYPE 304 STAINLESS STEEL	TYPE 316 STAINLESS STEEL	PVC COATED GALV. SHEET METAL (4X1)	PVC COATED GALV. SHEET METAL (1X4)	PVC COATED GALV. SHEET METAL (4X4)	16 GA. CARBON STEEL	ZERO-CLEARANCE PREFABRICATED RANGE HOOD EXHAUST DUCT	FABRIC	DESIGN PRESSURE CLASS (INCHES WG)	SEAL CLASS	MAX. ALLOWABLE LEAKAGE RATE (PERCENT)	KEYED NOTES
SUPPLY AIR WITHOUT TERMINAL UNITS	Х														+2	Α	5	
RETURN AIR WITHOUT TERMINAL UNITS	X														-2	Α	5	
EXHAUST AIR WITHOUT TERMINAL UNITS	X														-2	Α	5	
RELIEF AIR DOWNSTREAM OF FANS	X														+6	Α	5	
OUTSIDE AIR AND MIXED AIR DUCT	X														-6	Α	5	
OUTSIDE AIR, RELIEF AIR AND EXHAUST AIR PLENUMS ADJACENT TO EXTERIOR LOUVERS		х													+/-6	Α	5	

1. 'X' INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A DUCT SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.

2. 4 X 1 PVC-COATED GALVANIZED STEEL: FACTORY-APPLIED PVC COATINGS SHALL BE 4 MILS (0.10 MM) THICK ON EXTERIOR SHEET METAL SURFACES OF DUCTS AND FITTINGS EXPOSED TO CORROSIVE CONDITIONS AND MINIMUM 1 MIL (0.025 MM) THICK ON INTERIOR SURFACES.

3. 1 X 4 (4 X 1 REVERSE COATED) PVC-COATED GALVANIZED STEEL: FACTORY-APPLIED PVC COATINGS SHALL BE 4 MILS (0.10 MM) THICK ON INTERIOR SHEET METAL SURFACES OF DUCTS AND FITTINGS EXPOSED TO CORROSIVE CONDITIONS AND MINIMUM 1 MIL (0.025 MM) THICK ON EXTERIOR SURFACES.

4. 4 X 4 PVC-COATED GALVANIZED STEEL: FACTORY-APPLIED PVC COATINGS SHALL BE 4 MILS (0.10 MM) THICK ON SHEET METAL SURFACES OF DUCTS AND FITTINGS EXPOSED TO CORROSIVE CONDITIONS AND 4 MILS (0.10 MM) THICK ON OPPOSITE SURFACES.

<u>KEYED NOTES</u>

GENERAL NOTES

A. SCREWS, DAMPERS, OR PROJECTIONS OF ANY TYPE ON INTERIOR OF DUCT SURFACE ARE PROHIBITED.

B. DUCT SHALL BE LINED WITHIN 25 FEET UPSTREAM OF FANS. C. ALL WELDED CONSTRUCTION.

DUCT SYSTEM INSULATION A	PP	LIC	AT	101	1 8	SCH	IEC	DUL	E	
	IN	ISULAT	10N M/ (ATERIAI		ICKNE	SS	API	eld Plied	
						ΈT			CKET ERIAL	
	FIBERGLASS BLANKET 0.75 LB/CU FT	FIBERGLASS BLANKET 1.0 LB/CU FT	FIBERGLASS BOARD 2.25 LB/CU FT	FIBERGLASS BOARD 6.0 LB/CU FT	FLEXIBLE ELASTOMERIC	ASTM E2336 2-HOUR FIRE RATED BLANKET	2-Hour Fire Rated Blanket	ALUMINUM	SELF-ADHESIVE (FOR OUTDOOR APPLICATIONS)	keyed notes
DUCT SYSTEMS LOCATED INDOORS	-	-	-		•		•		-	
SUPPLY AIR, EXCEPT AS NOTED BELOW		1.5								A
RECTANGULAR SUPPLY AIR IN MECHANICAL ROOMS			1.5							
ROUND & FLAT OVAL SUPPLY AIR IN MECHANICAL ROOMS		1.5								
RECTANGULAR RETURN AIR IN MECHANICAL EQUIPMENT ROOMS			1.5							
ROUND RETURN AIR IN MECHANICAL ROOMS		1.5								
OUTSIDE AIR AND MIXED AIR, EXCEPT AS NOTED BELOW		1.5								
RECTANGULAR OUTSIDE AIR AND MIXED AIR IN MECHANICAL ROOMS			1.5							
ROUND OUTSIDE AIR AND MIXED AIR IN MECHANICAL ROOMS		1.5								
OUTSIDE AIR INTAKE, RELIEF AIR AND EXHAUST AIR PLENUMS ADJACENT TO EXTERIOR LOUVERS			1.5							
EXHAUST AND RELIEF AIR BETWEEN ISOLATION DAMPER AND PENETRATION OF BUILDING EXTERIOR, EXCEPT AS NOTED BELOW		1.5								
RECTANGULAR EXHAUST AND RELIEF AIR BETWEEN ISOLATION DAMPER AND PENETRATION OF BUILDING EXTERIOR, IN MECHANICAL ROOMS			1.5							
ROUND & FLAT OVAL EXHAUST AND RELIEF AIR BETWEEN ISOLATION DAMPER AND PENETRATION OF BUILDING EXTERIOR, IN MECHANICAL ROOMS		1.5								

FIBROUS-GLASS DUCTS DOUBLE-WALL METAL DUCTS WITH INSULATION OF SUFFICIENT THICKNESS TO COMPLY WITH ENERGY CODE AND ASHRAE/IESNA 90.1 - 2007 METAL DUCTS WITH DUCT LINER OF SUFFICIENT THICKNESS TO COMPLY WITH ENERGY CODE AND ASHRAE/IESNA 90.1 - 2007

EXPOSED SUPPLY DUCT IN CONDITIONED SPACE SERVED BY THAT SYSTEM FABRIC SUPPLY DUCTS

FACTORY-INSULATED FLEXIBLE DUCTS FACTORY-INSULATED PLENUMS AND CASINGS

FLEXIBLE CONNECTORS VIBRATION-CONTROL DEVICES

FACTORY-INSULATED ACCESS PANELS AND DOORS

<u>GENERAL NOTES</u>

1. X' OR THICKNESS IN INCHES INDICATE ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A DUCT SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS. 2. REFER TO METAL DUCT SECTION OF SPECIFICATIONS FOR DUCT LINING AND DOUBLE-WALL INSULATED DUCT. 3. REFER TO HVAC CASINGS SECTION OF SPECIFICATIONS FOR DOUBLE-WALL INSULATED PLENUMS.

<u>KEYED NOTES</u>

A. INCLUDE INSULATION AROUND DUCT MOUNTED COILS AND AIR TERMINAL UNIT COILS. B. NUMBER OF LAYERS AND TOTAL INSULATION THICKNESS AS RECOMMENDED BY SELECTED MANUFACTURER.

C. DOES NOT APPLY TO PREFABRICATED, ZERO-CLEARANCE GREASE DUCT. D. PROVIDE MANUFACTURER'S RECOMMENDED PROTECTIVE COATING FOR FLEXIBLE ELASTOMERIC THERMAL DUCT INSULATION. E. INSULATE DUCTWORK IN CRAWLSPACES, VENTILATED ATTICS, AND PARKING GARAGES HAVING NATURAL OR MECHANICAL VENTILATION THE SAME AS OUTDOOR DUCTWORK.

ROOF MOUNTED PIPING	SUPP	OR	T	AP	PL	.IC	AT	101	1 8	SC	HE	DULE
		SUPPORT TYPE							SHIELD TYPE			
PIPE TYPE & SIZE	LOW FIXED-HEIGHT SINGLE-BASE STAND	LOW ADJUSTABLE-HEIGHT SINGLE-BASE STAND	HIGH ADJUSTABLE-HEIGHT SINGLE-BASE STAND	LOW FIXED HEIGHT SINGLE-BASE ROLLER STAND	LOW ADJUSTABLE-HEIGHT SINGLE-BASE ROLLER STAND	HIGH MULTIPLE-BASE PIPE STAND	CUSTOM MULTIPLE BASE PIPE STAND	CURB-MOUNTING PIPE STAND	MSS TYPE 39 PROTECTION SADDLE	MSS TYPE 40 INSULATION PROTECTION SHIELD	THERMAL-HANGER SHIELD	KEYED NOTES
SINGLE PIPES												
REFRIGERANT PIPE NPS 4 AND SMALLER				Х	Х			Х				
CONDENSATE DRAIN PIPE ALL SIZES	Х	Х						Х				
MULTIPLE PARALLEL PIPES												
REFRIGERANT PIPE NPS 4 AND SMALLER	Х	Х						Х				
CONDENSATE DRAIN PIPE ALL SIZES	Х	Х						Х				

GENERAL NOTES

1. "X" INDICATES APPROVED HANGER OR SUPPORT ELEMENTS. IF MORE THAN ONE HANGER OR SUPPORT ELEMENT IS INDICATED, SELECTION FROM APPROVED ELEMENTS IS

CONTRACTOR'S OPTION. 2. REFER TO HANGER AND SUPPORT SECTION FOR APPROVED MANUFACTURERS.

CONTRACTOR'S OPTION. 3. SUPPORT ELEMENTS IN CONTACT WITH BARE COPPER PIPE SHALL BE COPPER PLATED, PLASTIC OR PLASTIC COATED, FELT LINED, OR USE MANUFACTURED COPPER TUBE ISOLATORS

<u>KEYED NOTES</u>

A. TYPE 40 SHIELD MAY BE USED ON INSULATED PIPE SIZED NPS 2 AND SMALLER. B. CONSULT WITH SUPPORT MANUFACTURER FOR CUSTOM SUPPORT REQUIREMENTS.

C. USE THERMAL HANGER SHIELD FOR INSULATED RING. D. TYPE 39 PROTECTION SADDLE MAY BE USED IF INSULATION WITHOUT VAPOR BARRIER IS INDICATED. FILL INTERIOR VOIDS WITH INSULATION MATCHING ADJOINING INSULATION.

ABOVE	GRO	DU	ND	H/	/A(CF	PIPI	NG	8	V	AL N	/E	AP	PL	ICA		ON	S	CH	EDULE
			М	ATERIA	AL.						CONN	ECTION				ISC	DLATIO	N VALV	/ES	
PIPE SIZE (INCHES)	SOFT COPPER TYPE K	HARD COPPER TYPE L	HARD COPPER TYPE M	CARBON STEEL (SCHED. 40)	CARBON STEEL (SCHED. 80)	CARBON STEEL (STD.)	COPPER TYPE DWV	SOLDERED	BRAZED	WELDED	THREADED	FLANGED	GROOVED	PRESSURE SEAL	MECHANICALLY FORMED TEE	BALL	General service Butterfly	HI-PERF BUTTERFLY	GATE	KEYED NOTES
HEATING HOT W	ATER	SUPF	PLY &	RET	JRN -	MIN.	WOR	KING	PRES	s. &	TEMP.	· 125	PSIG	AT 2	00 DI	ig f				
UP TO 2		Х						Х	Х					Х	х	Х				
2-1/2 TO 4				Х						Х		Х	Х				Х			D
2-1/2 TO 4		Х							Х				Х	Х	х		Х			D
GENERAL NOTES	-	-		-		-	-	-	-	-	7	-			-			-	-	

1. X' INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A PIPING SYSTEM, CONTRACTOR MAY

SELECT FROM THOSE INDICATED SELECTIONS. 2. DISSIMILAR-METAL PIPING JOINTS: CONSTRUCT JOINTS USING DIELECTRIC FITTINGS COMPATIBLE WITH BOTH PIPING MATERIALS. IF A BRONZE VALVE CONNECTS THE DISSIMILAR METALS NO FURTHER DIELECTRIC ISOLATION IS REQUIRED.

a. NPS 2 AND SMALLER: USE BRASS COUPLING, NIPPLE, OR UNION. b. NPS 2–1/2 AND LARGER: USE DIELECTRIC FLANGE KITS.

3. USE UNIONS OR FLANGES AT VALVE AND EQUIPMENT CONNECTIONS.

4. HVAC EQUIPMENT DRAINS, VENTS, SAFETY VALVE PIPING, BLOWDOWN PIPING AND THE LIKE SHALL BE SAME PIPING MATERIAL AS ASSOCIATED PIPING SYSTEM.

5. GROOVED END VALVES MAY BE USED WITH GROOVED PIPING.

<u>KEYED NOTES</u>

A. GROOVED FITTINGS, JOINTS, AND COUPLINGS, IF INDICATED AS AN ACCEPTABLE SELECTION, MAY BE USED IN ACCESSIBLE LOCATIONS

FOR THIS PIPING SYSTEM ONLY. B. BALL VALVE WITH 250 PSIG STEAM TRIM.

C. BALL VALVE WITH 150 PSIG STEAM TRIM. D. GROOVED FITTINGS, JOINTS AND COUPLINGS MAY BE USED IN MECHANICAL ROOMS ONLY.

ABOVEGROUND HVAC PIPE & ACCESSORY INSULATION APPLICATION SCHEDULE

PPLIED 、										
	INSULATION MATERIAL & THICKNESS (INCHES) FIELD-APPLIED JACKET MATERIAL									
PVC	ALUMINUM STAINLESS STEEL PVC	SELF-ADHESIVE (FOR OUTDOOR APPLICATIONS)	PVDC (INDOOR) PVDC (OUTDOOR)	KEYED NOTES						
x	x x			A						
X				A						
x	x x									
X	x x									
	x	х		В						
				В						

<u>GENERAL NUIES</u>

1. 'X' OR THICKNESS IN INCHES INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.

2. INSULATE PIPING WITHIN AIR HANDLING EQUIPMENT THE SAME AS INDOOR PIPING. PROVIDE ALUMINUM OR STAINLESS STEEL JACKET.

<u>KEYED NOTES</u>

A. PROVIDE FIELD APPLIED JACKET FOR PIPING EXPOSED IN EQUIPMENT ROOMS, STORAGE ROOMS, JANITORS CLOSETS, RECEIVING ROOMS, TEST AREAS, CIRCULATION

AREAS AND SUCH AREAS SUBJECT TO DAMAGE WITHIN 10 FEET (3 METERS) OF FINISHED FLOOR.

B. PROVIDE MANUFACTURER'S RECOMMENDED PROTECTIVE COATING FOR FLEXIBLE ELASTOMERIC THERMAL INSULATION. C. STEAM AND CONDENSATE PIPING JACKET SHALL BE STUCCO EMBOSSED.

D. PIPING WITHIN ENERGY RECOVERY UNITS SHALL BE TYPE 304 STAINLESS STEEL, SMOOTH; 0.010 INCH THICK. SEAMS AND JOINTS CAULKED WITH CHEMICALLY RESISTANT SEALER.

HORIZONTAL P

METAL PIPE TYPE & SIZE UNINSULATED SINGLE PIPE

	UP	тс
2	INCH	тс
L	D PIF	PE
	UP	тс
2	INCH	TC
T	PIPE	ES
	UP	ТС
2	INCH	TC
	2	2 INCH LD PIF UP 2 INCH T PIPE

<u>GENERAL NOTES</u>

- LINED, OR USE MANUFACTURED COPPER TUBE ISOLATORS.

- INDICATED FOR SINGLE COLD PIPES.

KEYED NOTES

WITH INSULATION MATCHING ADJOINING INSULATION.

EQUIPMENT TYPF

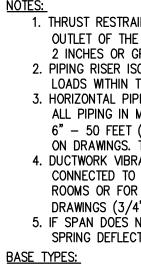
BASE MOUNTED CONDENSING UNITS PACKAGED AND MODULAR AIR HANDLING

AIR CONDITIONING, AND HEATING AND VENTILATING UNITS

PACKAGED AND MODULAR AIR HANDLING AIR CONDITIONING AND HEATING AND VENTILATING UNITS WITH INTERNAL SPRING ISOLATORS AIR HANDLING EQUIPMENT WITH NON-INTERNALLY ISOLATED FAN ARRAYS (AIR HANDLING UNITS, CABINET FANS, FAN

UNITS, ETC.) PACKAGED ROOFTOP EQUIPMENT

BASE MOUNTED DUCTEL ROTATING EQUIPMENT SUSPENDED DUCTED ROTATING EQUIPMENT



ISOLATOR TYPES:

IPIN)R1	Α	PP	LIC	CATION
	<u>S(</u>	CHE	<u>EDI</u>	<u>JLE</u>						
	F	IANGEF	RORS	UPPOR	T TYP	E	SHI	ELD T	/PE	
	GER	IG BAND HANGER	dd Pipe Roller	D ROLLER HANGER	er & stand	LE PIPE ROLL STAND	N SADDLE	N PROTECTION SHIELD	0	
	MSS TYPE 1 CLEVIS HANGER	MSS TYPE 10 SWVEL RING BAND HANGER	MSS TYPE 41 DOUBLE ROD PIPE ROLLER	MSS TYPE 43 SINGLE ROD ROLLER HANGER	MSS TYPE 44 PIPE ROLLER & STAND	MSS TYPE 46 ADJUSTABLE	MSS TYPE 39 PROTECTION SADDLE	MSS TYPE 40 INSULATION PROTECTION SHIELD	THERMAL-HANGER SHIELD	keyed notes
) 2 INCH	х	х								
) 4 INCH	Х	Х								
S										
) 2 INCH	х	Х						Х	Х	A
) 4 INCH	Х								Х	
) 2 INCH	Х	Х					Х	Х	Х	A, C
) 4 INCH			Х	Х	Х	Х	Х		Х	В, С

1. "X" INDICATES APPROVED HANGER OR SUPPORT ELEMENTS. IF MORE THAN ONE HANGER OR SUPPORT ELEMENT IS INDICATED, SELECTION FROM APPROVED ELEMENTS IS CONTRACTOR'S OPTION. REFER TO HANGER AND SUPPORT SECTION FOR APPROVED MANUFACTURERS.

. HANGERS AND SUPPORTS USED FOR FIRE PROTECTION SERVICES SHALL BE UL LISTED OR FMG APPROVED. 4. HANGER ELEMENTS IN CONTACT WITH BARE COPPER PIPE SHALL BE COPPER PLATED, PLASTIC COATED, FELT

REFER TO INDIVIDUAL PIPING SPECIFICATION SECTIONS FOR HANGER SPACING. 6. MULTIPLE PARALLEL COLD PIPES MAY BE TRAPEZE SUPPORTED FROM BELOW USING U-BOLTS OR STRUT CLAMPS AND THERMAL HANGER SHIELDS. REFER TO KEYED NOTE A.

. MULTIPLE PARALLEL COLD PIPES MAY BE TRAPEZE SUPPORTED FROM ABOVE USING STANDARD HANGER ELEMENTS 8. MULTIPLE PARALLEL HOT PIPES MAY BE TRAPEZE SUPPORTED FROM BELOW USING ROLLER ELEMENTS AND THERMAL HANGER SHIELD OR INSULATION PROTECTION SADDLE. REFER TO KEYED NOTES B AND C. 9. MULTIPLE PARALLEL HOT PIPES MAY BE TRAPEZE SUPPORTED FROM ABOVE USING STANDARD ROLLER HANGERS INDICATED AND THERMAL HANGER SHIELD OR INSULATION PROTECTION SADDLE. REFER TO KEY NOTES B AND C.

10. REFER TO INDIVIDUAL PIPING SPECIFICATION SECTIONS FOR ADDITIONAL SYSTEM SPECIFIC HANGER APPLICATIONS.

A. USE THERMAL HANGER SHIELD ON TRAPEZE SUPPORTED INSULATED PIPE TO PREVENT CRUSHING OF INSULATION. B. USE THERMAL HANGER SHIELD DESIGNED FOR USE ON ROLLER SUPPORTS FOR INSULATED HOT PIPE . C. USE TYPE 39 PROTECTION SADDLES IF INSULATION WITHOUT VAPOR BARRIER IS INDICATED. FILL INTERIOR VOIDS

SCHEDULES GENERAL NOTES:

TYPICAL FOR ALL SCHEDULE SHEETS:

- 1. REFER TO ELECTRICAL STANDARD SCHEDULES, ONE LINE DIAGRAM AND PANEL SCHEDULES FOR ADDITIONAL ELECTRICAL INFORMATION
- 2. PROVIDE THE FOLLOWING FACTORY-WIRED ELECTRICAL OPTIONS/ACCESSORIES WHERE INDICATED IN SCHEDULE:
- A NON-FUSED DISCONNECT SWITCH B – UNIT SHALL BE SINGLE POINT ELECTRICAL CONNECTION WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND
- CONTROLS C – SERVICE RECEPTACLE
- D FUSED DISCONNECT SWITCH E – COMBINATION STARTER
- F UNIT SHALL HAVE (2) SINGLE POINT CONNECTIONS WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND CONTROLS. (1) CONNECTION SHALL BE FOR CONDENSING SECTION AND (1) CONNECTION SHALL BE FOR THE REMAINDER OF THE UNIT.
- 3. FOR MODULATION/CONTROL TYPE COLUMN, "VFC" INDICATES VARIABLE FREQUENCY CONTROLLERS, "AUTO" INDICATES AUTOMATIC OPERATION (CONTROLLED BY TEMPERATURE CONTROLS OR SELF CONTAINED CONTROLS), "MANUAL" INDICATES HAND OPERATION.
- 4. IF VARIABLE FREQUENCY CONTROLLERS ARE INDICATED TO BE PROVIDED AND ARE NOT INSTALLED INTEGRAL TO THE UNIT. VARIABLE FREQUENCY CONTROLLERS SHALL BE SUPPLIED BY THE MECHANICAL CONTRACTOR (UNLESS OTHERWISE NOTED) AND INSTALLED BY THE ELECTRICAL CONTRACTOR INCLUDING THE LINE SIDE AND LOAD SIDE WIRING TO THE MOTOR AND INCLUDING MISCELLANEOUS STEEL REQUIRED FOR THE SUPPORT AND MOUNTING OF THE VFC. REFER TO FLOOR PLANS FOR LOCATION.
- 5. WHERE EQUIPMENT IS INDICATED TO HAVE A SINGLE POINT ELECTRICAL CONNECTION. THAT EQUIPMENT SHALL COME COMPLETE WITH FACTORY INSTALLED STARTERS, MOTOR OVERLOAD PROTECTION, CONTACTORS, FUSING AND ALL NECESSARY INTERNAL WIRING AND CONTROLS. PROVIDE A FACTORY MOUNTED UNIT DISCONNECTING MEANS WHERE THE ELECTRICAL CONTRACTOR SHALL MAKE SINGLE POINT CONNECTION. INSTALL PACKAGED EQUIPMENT SUCH THAT THE ELECTRICAL CONNECTION AND CONTROLS ARE ACCESSIBLE AND HAVE CLEARANCES MEETING THE NATIONAL ELECTRICAL CODE.
- 6. WHERE PACKAGED EQUIPMENT IS PROVIDED, NAMEPLATE MUST INDICATE MAXIMUM OVERCURRENT PROTECTION BY HACR RATED CIRCUIT BREAKERS OR FUSES. IF FUSE PROTECTION ONLY IS INDICATED, PROVIDE A FUSIBLE DISCONNECT AND FUSES WITH THE UNIT.
- 7. WHERE EQUIPMENT IS DESIGNATED BY MANUFACTURER AND MODEL NUMBER, THIS IS THE BASIS OF DESIGN. IF THE CONTRACTOR ELECTS TO PROVIDE EQUIPMENT BY OTHER SPECIFIED MANUFACTURERS OR PROPOSED ALTERNATE EQUIPMENT BY THE BASIS OF DESIGN MANUFACTURER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS TO ELECTRICAL REQUIREMENTS, STRUCTURAL LOADING, OR ARCHITECTURAL APPURTENANCES AND SHALL INCLUDE THE COST OF SUCH REVISIONS IN HIS BID.
- 8. WHERE EQUIPMENT IS SCHEDULED TO INCLUDE A SERVICE RECEPTACLE, PROVIDE A FACTORY MOUNTED SERVICE RECEPTACLE WITH APPROPRIATE FUSES AND TRANSFORMERS CONNECTED ON THE LINE SIDE OF THE UNIT DISCONNECT. PROVIDE A NAMEPLATE ON THE DISCONNECT SWITCH INDICATING THE PRESENCE OF LIVE POWER TO THE SERVICE RECEPTACLE WHEN HE UNIT DISCONNECT IS IN THE OFF POSITION.
- 9. SIZE ALL EQUIPMENT FEEDERS BASED ON THE LISTED MOP (MAXIMUM OVERCURRENT PROTECTION). REFER TO THE FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE ON THE ELECTRICAL STANDARD SCHEDULES SHEET.

V	IBRATIO	N ISOLA	TOR	APPLICATION	SCHEDULE	

						EQUIPMENT	LOCATION			
				S	SLAB ON GRAD	E	UP TO 40	FT (12 M) FL	OOR SPAN	
	EQUIPMENT CATEGORY	HORSEPOWER AND OTHER	RPM	BASE TYPE	ISOLATOR TYPE	MIN. DEFL., IN. (MM)	BASE TYPE	ISOLATOR TYPE	MIN. DEFL., IN. (MM)	Keyed Notes
	ALL ALL	≤1HP >1HP	ALL ALL	A OR B A OR B	2 2	0.25 (6) 0.25 (6)	A OR B A OR B	2 4	0.25 (64) 2.50 (64)	NOTE 3
10	ALL	≤10	ALL	A	3	0.75 (19)	A	3	0.75 (19)	NOTES 1, 3, 4
NG, D	ALL	≤15 AND ≤4 IN. SP	UP TO 300 301 TO 500 500 AND UP	A A A	3 3 3	0.75 (19) 0.75 (19) 0.75 (19)	C A A	3 3 3	3.50 (89) 2.50 (64) 1.50 (38)	
		≥15 AND/OR >4 IN. SP	UP TO 300 301 TO 500 500 AND UP	B B B	3 3 3	0.75 (19) 0.75 (19) 0.75 (19)	ССС	3 3 3	3.50 (89) 2.50 (64) 2.50 (64)	
1G,)	ALL	ALL	ALL	A	1a	0.25 (6)	A	1a	0.25 (6)	NOTES 1, 3, 4
TH										
6	ALL	ALL	ALL	A	3	0.75 (19)	A	3	2.50 (64)	NOTES 1, 3, 4
	ALL	≥10 TONS REFRIG.	ALL				D OR E	3	1.50 (38)	NOTES 1, 3, 4, 5
		OR ≥10 HP FAN								
Ð	SMALL FANS, FAN-POWERED BOXES	≤600 CFM >600 CFM	ALL ALL	A A	3 3	0.50 (13) 0.75 (19)	A A	3 3	0.50 (13) 0.75 (19)	NOTES 3, 4
	SMALL FANS, FAN-POWERED BOXES	≤600 CFM >600 CFM	ALL ALL				A A	8a OR 8b 8a OR 8b	0.50 (13) 0.75 (19)	NOTES 3, 4

1. THRUST RESTRAINTS: PROVIDE THRUST RESTRAINTS BETWEEN FAN DISCHARGE AND DUCT (IN PAIRS, LOCATED ON THE CENTERLINE OF THE DISCHARGE OUTLET OF THE FAN, BRIDGING THE FLEXIBLE DUCT CONNECTOR) FOR ALL FAN HEADS, FOR AXIAL AND CENTRIFUGAL FANS UNITS OPERATING AT 2 INCHES OR GREATER TOTAL STATIC PRESSURE AND AS SHOWN ON DRAWINGS. SPRING DEFLECTION SHALL BE SAME AS THE SUPPORT ISOLATORS. 2. PIPING RISER ISOLATION: PROVIDE PIPE RISER RESILIENT ANCHORS, SPRING MOUNTS AND RESILIENT PIPE GUIDES CAPABLE OF DISTRIBUTING THE

LOADS WITHIN THE BUILDING DESIGN LIMITS AT THE SUPPORT POINTS. 3. HORIZONTAL PIPING VIBRATION ISOLATION: PROVIDE TYPE 8a OR 8b SPRING HANGERS FOR PIPING CONNECTED TO VIBRATION ISOLATED EQUIPMENT FOR ALL PIPING IN MECHANICAL ROOMS OR THE FOLLOWING MINIMUM HORIZONTAL DISTANCES FROM THE ISOLATED EQUIPMENT: UP TO 6" - 50 FEET (1 1/2" MINIMUM DEFLECTION), 8" AND LARGER - 100 FEET (2 1/2" MINIMUM DEFLECTION), WHICHEVER IS GREATER, AND AS SHOWN ON DRAWINGS. THE FIRST 4 HANGERS FROM THE ISOLATED EQUIPMENT SHALL BE TYPE 8b. 4. DUCTWORK VIBRATION ISOLATION: PROVIDE TYPE 80 OR 86 SPRING HANGERS FOR DUCTWORK WITH A CROSS SECTION OF 2 SQUARE FEET OR GREATER CONNECTED TO AIR HANDLING UNITS, RETURN OR RELIEF FANS, AND VIBRATION ISOLATED EQUIPMENT FOR ALL SUCH DUCTWORK IN MECHANICAL ROOMS OR FOR A MINIMUM HORIZONTAL DISTANCE OF 100 FEET FROM THE ISOLATED EQUIPMENT, WHICHEVER IS GREATER, AND AS SHOWN ON DRAWINGS (3/4" MINIMUM DEFLECTION).

5. IF SPAN DOES NOT EXCEED 20 FT, SPRING DEFLECTION MAY BE 1.0 IN AND TYPE D BASE MAY BE USED. FOR SPANS GREATER THAN 20 FT, USE SPRING DEFLECTION INDICATED AND TYPE E BASE.

BASE TYPE A - NO BASE, ISOLATORS ATTACHED DIRECTLY TO EQUIPMENT.

BASE TYPE B – STRUCTURAL, STEEL RAILS OR BASE. BASE TYPE C - CONCRETE INERTIA BASE.

BASE TYPE D - CURB - MOUNTED ALUMINUM BASE WITH 1" DEFL. SPRING ISOLATORS BASE TYPE E - CURB - MOUNTED STEEL BASE WITH ADJUSTABLE 1", 2" OR 3" DEFL. SPRING ISOLATORS

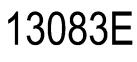
ISOLATOR TYPE 1a - ELASTOMERIC ISOLATION PAD. ISOLATOR TYPE 1b - ELASTOMERIC ISOLATION PAD WITH STEEL LOAD BEARING PLATE. ISOLATOR TYPE 2 - ELASTOMERIC FLOOR ISOLATOR. ISOLATOR TYPE 3 – FREE STANDING SPRING FLOOR ISOLATOR. ISOLATOR TYPE 4 - RESTRAINED SPRING ISOLATOR.

ISOLATOR TYPE 5 - THRUST RESTRAINT. ISOLATOR TYPE 6 - AIR SPRING. ISOLATOR TYPE 7 - ELASTOMERIC HANGERS.

ISOLATOR TYPE 8a - SPRING HANGERS. ISOLATOR TYPE 8b - SPRING HANGERS WITH VERTICAL-LIMIT STOP.



DRAWING NO.



PROJECT NO.

ISSUE DA	TES
01-19-201	7 BIDS
DATE:	ISSUED FOR:
DRAWN	ZAV
CHECKED	GRN
APPROVED	RNR







CONSULTANT



BLOOMFIELD HILLS • MICHIGAN • 48302

ARCHITECTURE

TMP ARCHITECTURE INC

1191 WEST SQUARE LAKE ROAD

	MODULAR AIR HANDLING UNIT COMPONENT SCHEDULE														
UNIT IDENTIFICATION	LOCATION	AREA SERVED	Position NUMBER 1	Position NUMBER 2	Position Number 3	Position NUMBER 4	Position Number 5	MAXIMUM UNIT LENGTH (IN)	EXISTING UNIT REPLACED	MODEL	REMARKS				
AHU-1	MECHANICAL EQUIPMENT ROOM K201/L201	GYM-EAST SIDE	MIXING BOX	AF-1	FUTURE COOLING COIL	HC-1	SF-1	92	HV-4B	CAH022GHAM					
AHU-2	MECHANICAL EQUIPMENT ROOM K201/L201	GYM-WEST SIDE	MIXING BOX	AF-2	FUTURE COOLING COIL	HC-2	SF-2	92	HV–3B	CAH023GHAM					
AHU-3	MECHANICAL EQUIPMENT ROOM K201/L201	CLASSROOM, WEIGHT ROOM	MIXING BOX	AF-3	CC-1	HC-3	SF-3	86	AC-1B	CAH005GDAM					
AHU-4	MECHANICAL EQUIPMENT ROOM K201/L201	GIRLS LOCKERS	MIXING BOX	AF-4	FUTURE COOLING COIL	HC-4	SF-4	88	HV–1B	CAH011GHAM					
AHU-5	MECHANICAL EQUIPMENT ROOM K201/L201	WRESTLING	MIXING BOX	AF-5	FUTURE COOLING COIL	HC-5	SF-5	84	HV–1C	CAH008GHAM					

NOTE: 1. MODULES SELECTED BASED ON DAIKIN INDOOR MODULAR AIR HANDLING UNIT. 2. POSITION NUMBERS ARE INDICATED IN THE DIRECTION OF AIRFLOW FROM RETURN AIR INLET TO SUPPLY AIR DISCHARGE.

															AIR	HANDLIN	IG UNIT	SUPPL	Y AIR	FAN 3	SCHE	DULE																			
UNIT IDENTIFICATIO	SYSTEM SERVED	TYPE	AIRFLOW CFM	MINIMUM OUTSIDE AIR	E.S.P. IN. W.G.	SUCTION OR DISCHARGE S.P.	T.S.P. IN. W.G.	MINIMUM WHEEL DIAMETER	RPM	OUTLET VELOCITY	FAN CLASS			MOTOR		MODULATION/ CONTROL TYPE		ELECTRICAL										MA	KIMUM SOUN	ND POWER L	EVELS									REMA	ARKS
				FLOW CFM		IN. W.C. AT COOLING COIL		INCHES		FPM		BHP	HP	RPM	DRIVE TYPE	1	VOLTS	PHASE	OPTIONS/ ACCESSORIES			UNIT DISCHAR	GE LW BY O	OCTAVE BAND				UN	T INLET LW	BY OCTAVE	BAND				CASIN	3 RADIATED	LW BY OCTA	AVE BAND			
						DRAIN PAN													ACCESSORIES	63 HZ (DB)	125 HZ (DB)	250 50 HZ H (DB) (D	0 1000 Z HZ B) (DB)	00 2000 Z HZ 3) (DB)	4000 HZ (DB)	8000 HZ (DB)	63 HZ 125 (DB) (DE	HZ 250 HZ (DB)	500 HZ (DB)	1000 HZ (DB)	2000 HZ (DB)	4000 HZ (DB)	8000 HZ (DB)	63 HZ 12 (DB) (25 HZ (DB) 250 HZ (DB)	500 HZ (DB)	1000 HZ (DB)	2000 HZ (DB)	4000 80 HZ H (DB) (D	00 ,Z ,B)	
SF-1	AHU-1	FORWARD CURVED DWDI	10850	2700	1.0		2.89	24	1411	1541	CENTRIFUGAL	6.97	7.5	1750	BELT	AUTO	460	3		99	94	93 8	8 85	5 79	75	71	89 84	75	71	68	62	55	51	89	84 75	67	63	51	46 !	51	
SF-2	AHU-2	FORWARD CURVED DWDI	11300	2825	1.0		2.90	24	1440	1605	CENTRIFUGAL	7.40	10	1750	BELT	AUTO	460	3		99	94	93 8	8 85	5 79	75	71	89 84	75	71	68	62	55	51	89	84 75	67	63	51	46 !	51	
SF-3	AHU-3	FORWARD CURVED DWDI	2150	525	1.7		3.32	9.5	2075	2216	CENTRIFUGAL	2.29	3	1750	BELT	AUTO	460	3		83	83	80 7	9 79	80	77	74	73 73	65	65	64	65	59	54	73	73 62	58	57	52	46 !	51	
SF-4	AHU-4	FORWARD CURVED DWDI	5450	1800	1.8		3.81	14.5	2980	1892	CENTRIFUGAL	5.75	7.5	1750	BELT	AUTO	460	3		96	96	91 9	2 86	85	81	80	86 86	73	75	69	68	61	57	86	86 73	71	64	57	46 !	تر	
SF-5	AHU-5	FORWARD CURVED DWDI	3600	900	1.0		3.02	12.6	1750	2449	CNTRIFUGAL	3.03	5	1750	BELT	AUTO	460	3		85	90	85 8	2 87	83	78	77	75 80	67	65	70	66	58	54	75	80 67	61	65	55	46	51	

NOTE: 1. REFER TO SCHEDULES GENERAL NOTES. 2. MODEL NUMBERS ARE DAIKIN UNLESS OTHERWISE NOTED.

3. DESIGN MINIMUM OUTSIDE AIRFLOW CFM (VENTILATION) LISTED IS BASED ON THE ESTIMATED MAXIMUM OCCUPANT LOAD. REFER TO TEMPERATURE CONTROL DRAWINGS FOR OUTSIDE AIR CONTROL SEQUENCE. 4. REFER TO AIR HANDLING UNIT FILTER SCHEDULE FOR AIR PRESSURE DROP TO BE USED FOR TOTAL STATIC PRESSURE CALCULATIONS.

				A	AIR HA	ANDL	ING L	JNIT F	ILTEF	SCH	EDUL	E					
UNIT I.D.	SYSTEM SERVED	TYPE	AIRFLOW	AIR PRES	SS. DROP	EFFICI	ENCIES			FILTER MED	IA			HOUS	SING		REMARKS
			CFM	INITIAL IN. W.G.	DIRTY IN. W.G.	MERV	D.S. %	QUAN.	WIDTH IN.	HEIGHT IN.	depth In.	MIN. MEDIA FACE AREA SQ. FT.	ACCESS TYPE	WDTH IN.	HEIGHT IN.	depth In.	
AF-1	AHU-1	PLEATED	10850	0.25	1.0	8	65	1 3 1 3	24 20 24 20	24 24 20 20	4 4 4 4	24.4	SIDE	86	52	20	
AF-2	AHU-2	PLEATED	11300	0.25	1.0	8	65	1 3 1 3	24 20 24 20	24 24 20 20	4 4 4 4	24.4	SIDE	88	52	20	
AF-3	AHU-3	PLEATED	2150	0.25	1.0	8	65	1 1	24 12	24 24	4 4	5.6	SIDE	40	34	12	
AF-4	AHU-4	PLEATED	5450	0.25	1.0	8	65	2 1 1 1	24 24 20 12	12 24 24 24 24	4 4 4 4	12.5	SIDE	60	42	16	
AF-5	AHU-5	PLEATED	3600	0.25	1.0	8	65	2 1	20 12	24 24	4	8.2	SIDE	56	34	12	

NOTE: 1. MODEL NUMBERS ARE FARR UNLESS OTHERWISE NOTED. 2. PROVIDE 25% TO 30% EFFICIENT 2 INCH THROW AWAY PREFILTERS 3. MERV DESIGNATES THE "MINIMUM EFFICIENCY REPORTING VALUE" AS EVALUATED UNDER ASHRAE STANDARD 52.2 1999. 4. AIR HANDLING UNIT TOTAL STATIC PRESSURE FOR VARIABLE AIR VOLUME SYSTEMS IS BASED ON THE FILTER DIRTY AIR PRESSURE DROP AND AVERAGE/MIDLIFE FILTER AIR PRESSURE DROP FOR CONSTANT VOLUME SYSTEMS UNLESS NOTED OTHERWISE.

					H	OT W	ATEF		NG CO	L SCH	HEDUI	E				
UNIT IDENTIFICATION	SYSTEM SERVED	Maximum Number Rows	Maximum Fin Density Fins/Inch	CAPACITY MBH	AIRFLOW CFM	E.D.B. F	AIR L.D.B. F	MAXIMUM A.P.D. IN. W.G.	MINIMUM FACE AREA SQ. FT.	FLOW GPM	E.W.T. F	VATER L.W.T. F	MAXIMUM W.P.D. FT. HEAD	CONTROL VALVE W.P.D. FT. HD.	MODEL NUMBER	REMARKS
HC-1	AHU-1	2	14	714	10850	50	110.2	0.27	20.40	35.6	180	139.8	3.1	11.55	5WH1402B	
HC-2	AHU-2	2	14	743	11300	50	110.2	0.28	21.0	37.1	180	139.9	3.4	11.55	5WH1402B	
HC-3	AHU-3	3	8	144	2150	50	111.2	0.22	4.5	7.1	180	139.2	1.4	11.55	5WQ0803B	
HC-4	AHU-4	2	13	367.0	5450	45	106.6	0.42	10.1	17.9	180	138.9	1.0	11.55	5WH1302C	
HC-5	AHU-5	2	13	239.8	3600	50	110.9	0.42	6.67	11.8	180	139.4	0.7	11.55	5WH1302C	
NOTE:			-				-									

<u>NOTE:</u> 1. MODEL NUMBERS ARE DAIKIN UNLESS OTHERWISE NOTED. 2. COIL SELECTION BASED ON .00025 FOULING FACTOR. 3. COIL SELECTIONS SHALL BE BASED ON [25%] [30%] [40%] [ETHYLENE] [PROPYLENE] GLYCOL SOLUTION.

					DIRE	СТ ЕХ	XPAN	SION	COOL	.ING (COIL SC	HEDUL	E					
UNIT IDENTIFICATION	SYSTEM SERVED	ASSOCIATED CONDENSING		Minimum Number	TOTAL CAPACITY				AIR			MINIMUM FACE AREA	FACE VELOCITY	FINS Per inch	COIL SUCTION TEMPERATURE	NUMBER OF	MODEL NUMBER	REMARKS
		UNIT		ROWS	MBH	AIRFLOW CFM	E.D.B. F	E.W.B. F	L.D.B. F	L.W.B. °F	MAXIMUM A.P.D. IN. W.G.	SQ. FT.	FPM		۴	CIRCUITS		
CC-1	AHU-3	CU-1	R-410A	6	79	2150	82.3	67.8	58.8	56.3	0.62	4.5	478	7	46.0	1	5EN0706B	

NOTE: 1. MODEL NUMBERS ARE BASED ON DAIKIN UNLESS OTHERWISE NOTED.

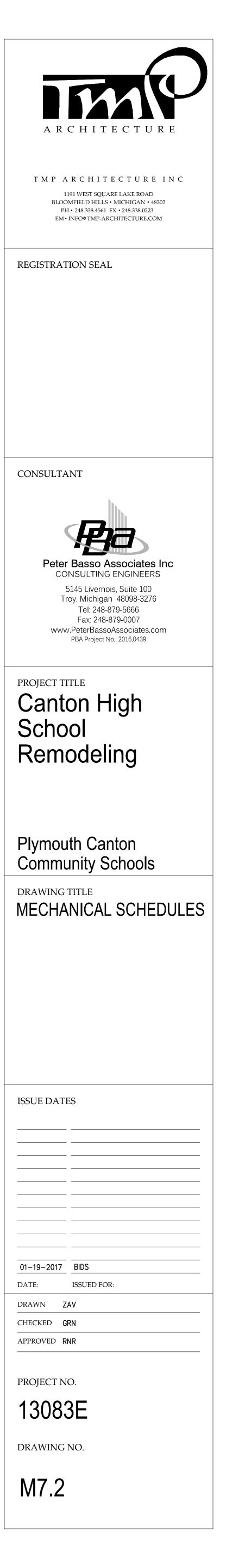
							AI	R-COOL	ED CO	NDEN	ISING	UNIT S	CHEDULE								
UNIT IDENTIFICATION	SYSTEM SERVED	TOTAL CAPACITY	MINIMUM EER	REFRIGERATION TYPE	NUMBER OF CIRCUITS	NUMBER OF CONTROL	CONDE	ENSER	SUCTION TEMPERATURE	CONDEN	ISER FAN	COM	PRESSOR	MODULATION/ CONTROL TYPE			ELECTRICA	L		MODEL NUMBER	REMARKS
		MBH				STAGES	DESIGN AMBIENT TEMPERATURE F	Minimum Ambient Temperature 'F	F	QUANTITY	HP EACH	NUMBER OF COMPRESSORS	TYPE OF COMPRESSOR		VOLTS	PHASE	FLA	MOP	OPTIONS/ ACCESSORIES		
CU-1	AHU-3	72.8	11.9	R-410A	1	1	95	45	45	1	-	1	SCROLL	AUTO	4 60	3	15	25		RCS06F078D	

NOTE: 1. REFER TO SCHEDULES GENERAL NOTES. 2. MODEL NUMBERS ARE DAIKIN UNLESS OTHERWISE NOTED. 3. REFER TO AIR HANDLING UNIT DIRECT EXPANSION COOLING COIL SCHEDULE FOR ASSOCIATED COOLING COIL.

4.	EFFICIENCY	RATING	SHALL	BE IN	I ACCORDANCE	WITH	ARI-STANDARD	340/360-	2004.

		GRILL	E, REGI	STER, AN	D DIFFUS	SER SCHE	EDULE		
UNIT IDENTIFICATION	TYPE	FACE SIZE	NECK SIZE	FRAME TYPE	ACCESSORY	CONSTRUCTION	FINISH	MODEL NUMBER	REMARKS
S–1	DIFFUSER	24x24	SEE PLANS	LAY IN		STEEL	WHITE	OMNI	
R-1	GRILLE	24x24	22x22	LAY IN		STEEL	WHITE	PAR	
R-2	GRILLE	24x24	22x22	SURFACE MOUNT		STEEL	WHITE	PAR	

NOTE: 1. MODEL NUMBERS ARE TITUS UNLESS OTHERWISE NOTED.

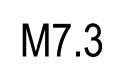


								PUMF	SCHE	DULE									
UNIT IDENTIFICATION	SYSTEM SERVED	LOCATION	TYPE	COUPLING TYPE	WATERFLOW GPM	Fluid Type	COLDEST SYSTEM OPERATING		OVERLOAD GPM	MINIMUM EFFICIENCY %		MOTOR		MODULATION/ CONTROL TYPE		ELECTRICA	AL.	MODEL NUMBER	REMARKS
							TEMP. 'F FOR PUMP SELECTION				BHP	HP	RPM		VOLTS	PHASE	OPTIONS/ ACCESSORIES		
CP-1	HWH AHU-1	MEZZANINE L201	INLINE	CLOSE	35.6	WATER	40	20	NON- OVERLOADING	59.45	0.29	0.5	1725	AUTO	460	3	-	E-90 1.5AAB	
CP-2	HWH AHU-2	MEZZANINE L201	INLINE	CLOSE	37.1	WATER	40	20	NON- OVERLOADING	59.85	0.30	0.5	1725	AUTO	460	3	-	E-90 1.5AAB	
CP-3	HWH AHU-3	MEZZANINE L201	INLINE	CLOSE	7.1	WATER	40	20	NON- OVERLOADING	29.46	0.11	0.33	1725	AUTO	460	3	_	E-90 1AAB	
CP-4	HWH AHU-4	MEZZANINE L201	INLINE	CLOSE	17.9	WATER	40	20	NON- OVERLOADING	46.04	0.18	0.33	1725	AUTO	460	3	-	E-90 1AAB	
CP-5	HWH AHU-5	MEZZANINE L201	INLINE	CLOSE	11.8	WATER	40	20	NON- OVERLOADING	36.96	0.14	0.33	1725	AUTO	460	3	-	E-90 1AAB	

NOIE: 1. REFER TO SCHEDULES GENERAL NOTES. 2. MODEL NUMBER ARE BELL & GOSSETT UNLESS OTHERWISE NOTED. 3. FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EGXX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL.

													POWER V	ENTILATOR S	CHEDU	LE															
NEW UNIT IDENTIFICATION	EQUIPN CONDI	Pment e Dition ie	EXISTING UNIT DENTIFICATION	BUILDING PHASE	AREA SERVED TYPE	AIRFLOW CFM	T.S.P. IN. W.G.	TIP SPEED FPM	FAN RPM		M	DTOR	CURB HEIGHT INCHES	MODULATION/ CONTROL TYPE	ELECTR	ICAL							MAX	(IMUM SOUN	D POWER L	EVELS					MODEL REMARKS NUMBER
										BHP	HP	RPM	DRIVE TYPE	VOL	.TS PHA	SE OI	OPTIONS/ CESSORIES		UN	IT DISCHARC	E LW BY O	CTAVE BAND	_				UNIT IN	NLET LW BY	OCTAVE BAND		
																		63 HZ 125 (DB) (D	9 HZ 25 9B) HZ (Df	Z 🛛 HZ	0 1000 2 HZ 3) (DB	(DB)	Z 4000 HZ (DB)	8000 HZ (DB)	63 HZ (DB)	125 HZ (DB)	250 HZ (DB)	500 HZ (DB)	1000 2000 HZ HZ (DB) (DB)	4000 HZ 8000 HZ (DB) (DB)	
1	ORIGI	GINAL	RF 1-1	2	CORRIDOR 113	3000	0.25				1/3			11	5 1																
2	ORIGI		RF 1-2	2	CORRIDOR 113	3000	0.25				1/3			11																	
3	ORIGI		RF 1-3	2	CORRIDOR 130	1600	0.25				1/4			11							_										
	ORIGIN		RF 1-4 RF 1-5	2	OFFICE 139 CUSTODIAL 134	3000 600	0.25 0.25				1/3 1/6			11							_										
6	REPLA		RF 2–1	2	TOILET ROOMS 208, 209	1000	0.25				1/6			11																	
7	ORIGI		RF 2-2	2	PASSAGE 223-B	3000	0.25				1/3			11																	
8	REPLA	ACED	RF 2-3	2	TOILET 217	1000	0.25				1/6			11																	
9	ORIGI	GINAL	RF 2-4	2	DATA ROOM 214	3000	0.25				1/3			11	5 1																
10	REPLA	ACED	RF 2-5	2	TOILET ROOMS 232, 233	1000	0.25				1/6			11	5 1																
11	ORIGI	GINAL	RF 2-6	2	CLOTHING LAB 228	1200	0.25				1/6			11	5 1																
12	ORIGI	GINAL	RF 2-7	2	FOOD LAB 227	1200	0.25				1/6			11	5 1																
13	ORIGI		RF 2-8	2	INDUSTRIAL EDUCATION 244	2000	0.25				1/4			11																	
14	ORIGIN		RF 2-9	2	FUME HOOD 244	3000	0.375				1/2			11											 						
15	ORIGI		RF 3-1	2	DARK ROOM 322	500	0.375				1/6			11							_	_									
16 17	REPLA		RF 3-2 RF 3-3	2	BOYS 363 TEACHERS LOUNGE 318	900 900	0.25 0.375				1/6 1/4		┼──┤───	11								_									
17	ORIGI		RF 4–1	2	WARMING KIT 429	1200	0.375				/ 4 /4			11																	
19	ORIGIN		RF 4-2	2	TRASH 428 AND STORAGE 427	800	0.25				1/6			11																	
20	REPLA		RF 4-3	2	CUSTODIAL LOCKER 425	2000	0.375				, 1/3			11																	
21	REPLA	ACED	RF 4-4	2	SERVING 415	2000	0.25				1/4			11	5 1																
22	REPLA	ACED	RF 4-5	2	FACULTY DINING 414	2000	0.25				1/4			11	5 1																
23	REPLA	ACED	RF 4-6	2	DISHWASHER HOOD	800	0.375				1/3			11	5 1																
24	REPLA	ACED	RF 4-7	2	TOILET ROOM 418, 419	1000	0.375				1/4			11	5 1																
25	ORIGI		RF 5-1	2	CORRIDOR 551	3000	0.25				1/3			11																	
26	ORIGI		RF 5-2	2	PREPARATION 521	1800	0.375				1/3			11							_										
27 28	ORIGIN		RF 5-3 RF 5-4	2	CORRIDOR 551 CORRIDOR 578	3000 3000	0.25 0.25				1/3 1/3			11							_										
20	ORIGI		RF 5-5	2	CORRIDOR 578	3000	0.25				1/3			11																	
30	ORIGI		RF 6–1	2	STUDENT COMM. 601	2200	0.25				, 1/4			11																	
31	ORIGI	GINAL	RF 6-2	2	ELECTRICAL AREA 603	1000	0.25				1/6			11	5 1																
32	REPLA	ACED	RF 7–1	2	SHOP AREA	2000	0.25				1/4			11	5 1																
33	ORIGI	GINAL	RF 7-2	2	SHOP AREA	2000	0.25				1/4			11	5 1																
34	ORIGI	GINAL	RF-1A	3	INSTRUMENTAL A101	2000	0.125				1/4			11	5 1																
35	ORIGI		RF-2A	3	TOILET ROOM A123	100	0.125				/25			11																	
36	ORIGI		RF-3A RF-4A	3	VOCAL A125 TOILET ROOM A129, A133	1500	0.125				1/6		<u> </u>	11								_									
37	ORIGIN		RF-4A RF-5A	3	CONCESS A127	1000 400	0.125 0.125				1/6 1/6			11						_		_									
39	ORIGI		RF-1B	3	DRY TOILETS B138, B141	700	0.125				1/6			11									+								
40	ORIGIN		RF-2B	3	GIRLS LOCKER B133	1900	0.125				, 1/6			11																	
41	ORIGI	GINAL	RF-3B	3	NATATORIUM B101	3000	0.125				1/3			11	51																
42	ORIGI	GINAL	RF-4B	3	NATATORIUM B101	3000	0.125				1/3			11	5 1																
43	ORIGI	GINAL	RF-5B	3	GYMNASIUM B153	2500	0.125				1/3			11	5 1																
44	ORIGI		RF-6B	3	GYMNASIUM B153	2000	0.125				1/4		↓ ↓ ↓	11								_			 						
45	ORIGI		RF-7B	3	GYMNASIUM B153	2000	0.125				1/4		┤	11							_	_			<u> </u>						
46	ORIGIN		RF-8B RF-9B	় হ	BOYS LOCKER B117 DRY TOILETS B108, B111	1950 800	0.125 0.125				1/6 1/6		┤	11							_	_									
47	ORIGI		RF-98 RF-10B	3	TOILET ROOM B156	150	0.125				/25			11				 		_		_									
49	ORIGI		RF-11B	3	ELECTRICAL B103	1200	0.125				//4			11																	
50	ORIGI		RF-1C	3	WRESTLING C104	1800	0.125				, 1/4			11																	
51	ORIGI	GINAL	RF-2C	3	GYMNASTICS C105	200	0.125				1/4			11	5 1								1	1	1						
52	ORIGIN	GINAL	RF-3C	3	HANDBALL C101, C102	1600	0.125				1/6			11	51																
53	ORIGI	GINAL	RF-4C	3	ACTIVITY ROOM C103, C107	1600	0.125				1/6			11	5 1																

<u>NOTE:</u> 1. REFER TO SCHEDULES GENERAL NOTES. 2. MODEL NUMBERS ARE GREENHECK UNLESS OTHERWISE NOTED.



DRAWING NO.



PROJECT NO.

ISSUE DATES
01-19-2017 BIDS
DATE: ISSUED FOR:
DRAWN ZAV
CHECKED GRN
APPROVED RNR
DROIECT NO

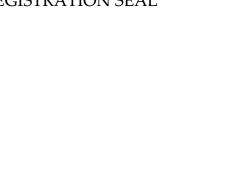






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REGISTRATION SEAL

ARCHITECTURE TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD

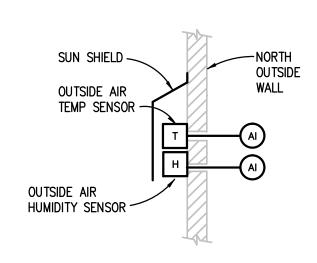
TEMPERATURE CONTROL - SYMBOLS LIST

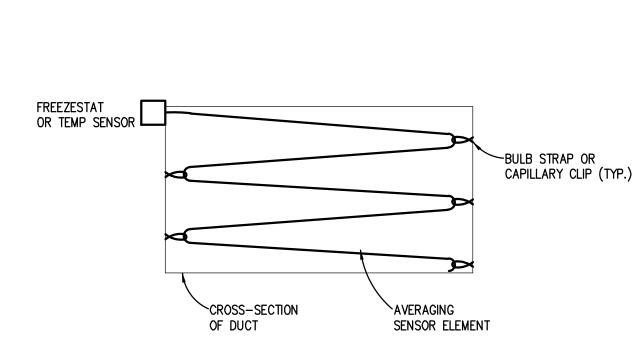
SCHEMATIC SYN	ABOLS S	SCHEMATIC SYN	IBOLS (CONT.)
<u>SYMBOL</u>	DESCRIPTION	<u>SYMBOL</u>	DESCRIPTION
	AQUASTAT, STRAP ON BULB		SMOKE DETECTOR - DUCT MOUNTED
cs	CURRENT SWITCH	SD	SMOKE DETECTOR - SPACE MOUNTED
$\rightarrow \rightarrow $	DAMPER – OPPOSED BLADE	s/s	START/STOP RELAY
-/ / / / /	DAMPER – PARALLEL BLADE	SPT	STATIC PRESSURE TRANSMITTER
м	DAMPER MOTOR	SP	STATIC PRESSURE SENSOR OR PROBE
DPT	DIFFERENTIAL PRESSURE TRANSMITTER	sw	SWITCH
DPS	DIFFERENTIAL PRESSURE SWITCH		TEMPERATURE SENSOR - RIGID ELEMENT IN WELL
См	FIRE ALARM SYSTEM, ADDRESSABLE CONTROL MODULE	Lī M	TEMPERATURE SENSOR - DUCT MOUNTED AVG ELEMENT
	THE ALANW SISTEM, ADDRESSADLE CONTROL WODDLE	Т	TEMPERATURE SENSOR - DUCT MOUNTED RIGID ELEMENT
[FZ]	FREEZESTAT	T	THERMOSTAT OR TEMPERATURE SENSOR
	GUARD FOR STAT OR SENSOR	<u> </u>	(AS DEFINED ON TC DRAWINGS)
		XF	TRANSFORMER
	HUMIDITY SENSOR, DUCT MOUNTED	Жр	VALVE - 2 WAY CONTROL VALVE
	LINE – ELECTRIC	₩	VALVE – 3 WAY CONTROL VALVE
	LINE – PNEUMATIC	VFC	VARIABLE FREQUENCY CONTROLLER
Ms	MOTOR STARTER		
os	OCCUPANCY SENSOR	WIRING SYMBOL SYMBOL	DESCRIPTION
R	RELAY, ELECTRIC	-(M/S)	COIL - MOTOR STARTER CONTACTOR
Al	SIGNAL – DDC/BAS, ANALOG INPUT	<u> </u>	COIL - EP OR SOLENOID VALVE
AO	SIGNAL – DDC/BAS, ANALOG OUTPUT	에┝╸	CONTACT - INSTANT OPERATING, NO
DI	SIGNAL – DDC/BAS, DIGITAL INPUT	o//o	CONTACT - INSTANT OPERATING, NC
DO	SIGNAL – DDC/BAS, DIGITAL OUTPUT	Ŷ	
AI	SIGNAL – PACKAGED EQUIPMENT, ANALOG INPUT		GROUND
ÂO	SIGNAL – PACKAGED EQUIPMENT, ANALOG OUTPUT	9	MOTOR, SINGLE PHASE
DI	SIGNAL – PACKAGED EQUIPMENT, DIGITAL INPUT		
DO	SIGNAL – PACKAGED EQUIPMENT, DIGITAL OUTPUT		

NOTE: REFER TO MECHANICAL STANDARDS ON DRAWING MO.1 FOR ADDITIONAL SYMBOLS & ABBREVIATIONS THAT MAY BE USED ON TEMPERATURE CONTROL DRAWINGS.

ABBREVIATION LIST

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AAV	AUTOMATIC AIR VENT	ERCP	ELECTRIC RADIANT CEILING PANEL	NC	NORMALLY CLOSED
ACC	AIR COOLED CONDENSER	ERU	ENERGY RECOVERY UNIT	NCTC	NORMALLY CLOSED TIMED CL
ACCU	AIR COOLED CONDENSING UNIT	EUH	ELECTRIC UNIT HEATER	NCTO	NORMALLY CLOSED TIMED OF
AD	ACCESS DOOR	EWB	ENTERING WET BULB	NIC	NOT IN CONTRACT
AFF	ABOVE FINISHED FLOOR	EWT	ENTERING WATER TEMPERATURE	NFPA	NATIONAL FIRE PROTECTION
AHU	AIR HANDLING UNIT	EXH	EXHAUST	NO	NORMALLY OPEN
ALT	ALTERNATE		EXHROST	NOTC	NORMALLY OPEN TIMED CLOS
AMP	AMPERE	۴	DEGREES FAHRENHEIT	NOTO	NORMALLY OPEN TIMED OPEN
APD	AIR PRESSURE DROP			NSB	NIGHT SETBACK
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION	F&B	FACE AND BYPASS DAMPER		
AUX	AUXILIARY	FAS	FIRE ALARM SYSTEM	OA	OUTSIDE AIR
AUX	AUAILIANT	FCU	FAN COIL UNIT	ÖAT	OUTSIDE AIR TEMPERATURE
DAC	DUILDING AUTOMATION SYSTEM	FLR		•	
BAS	BUILDING AUTOMATION SYSTEM	FM	FLOW MEASURING DEVICE	D A OLI	
•	001/001	FT	FEET	PACU	PACKAGED AIR CONDITIONING
C	COMMON	FTR	FINNED TUBE RADIATION	PD	PRESSURE DROP (FEET OF V
CFM	CUBIC FEET PER MINUTE			PHR	PERIMETER HEAT RETURN
СН	CHILLER	GPM	GALLONS PER MINUTE	PHS	PERIMETER HEAT SUPPLY
CHWP	CHILLED WATER PUMP	GRH	GRAVITY RELIEF HOOD	PNL	PANEL
CHWR	CHILLED WATER RETURN			PPM	PARTS PER MILLION
CHWS	CHILLED WATER SUPPLY	HOA	HAND/OFF/AUTO	PRV	PRESSURE REDUCING VALVE
CLG	COOLING	HP	HEAT PUMP	PSI	POUNDS PER SQUARE INCH
CLP	COMPUTER LOOP PUMP	HP	HORSEPOWER		
		HPLP	HEAT PUMP LOOP PUMP	R	RETURN
CLR	COMPUTER LOOP RETURN	HPLR	HEAT PUMP LOOP RETURN	RA	RETURN AIR
CLS	COMPUTER LOOP SUPPLY	HPLS	HEAT PUMP LOOP SUPPLY	RAT	RETURN AIR TEMPERATURE
CO2	CARBON DIOXIDE	HR	HOUR	RCP	RADIANT CEILING PANEL
COND	CONDENSATE	HTG	HEATING	RELA	RELIEF AIR
CONT	CONTINUATION OR CONTINUED	HV	HEATING VENTILATING	REQD	REQUIRED
CONTR	CONTRACTOR	HVAC	HEATING, VENTILATING, AIR CONDITIONING		
CONV	CONVECTOR	HWH	HOT WATER HEATING	RF	RETURN FAN
COS	CENTRAL OPERATOR STATION	HWHR	HOT WATER HEATING RETURN	RH	RELATIVE HUMIDITY
CP	CIRCULATING PUMP		HOT WATER HEATING SUPPLY	RTU	ROOF TOP UNIT
СТ	COOLING TOWER	HWHS		C.4	
CUH	CABINET UNIT HEATER	HW	DOMESTIC HOT WATER DOMESTIC HOT WATER RETURN	SA	SUPPLY AIR
CW	DOMESTIC COLD WATER	HWR	HEAT EXCHANGER	SF	SUPPLY FAN
CWP	CONDENSER WATER PUMP	HX		SP	STATIC PRESSURE
CWR	CONDENSER WATER RETURN	IAQ	INDOOR AIR QUALITY	s/s	START/STOP
CWS	CONDENSER WATER SUPPLY	IN	INCHES	STD	STANDARD
				STM	STEAM
DA	DISCHARGE AIR	JC	JANITOR'S CLOSET	SZ	SINGLE-ZONE
DAT	DISCHARGE AIR TEMPERATURE			S/W	SUMMER/WINTER
DB	DRY BULB TEMPERATURE	KW	KILOWATT	ŚŴ	SWITCH
DDC	DIRECT DIGITAL CONTROL	KWH	KILOWATT-HOUR		
DEG	DEGREES	LBS/HR	POUNDS PER HOUR	TC	TEMPERATURE CONTROL
DMPR	DAMPER	LDS/TIX	TOURDS TER HOUR	TCP	TEMPERATURE CONTROL PAN
D/N	DAY/NIGHT	MA	MIXED AIR	TEMP	TEMPERATURE
DN	DOWN	MAT	MIXED AIR TEMPERATURE	THR	TERMINAL HEATING RETURN
DPR	DAMPER	MAU	MAKE-UP AIR UNIT	THS	TERMINAL HEATING SUPPLY
		MAX	MAXIMUM	TSP	TOTAL STATIC PRESSURE
DWG	DRAWNG	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR	TU	(AIR) TERMINAL UNIT
DWH	DOMESTIC WATER HEATER			TYP	ŤΥΡΙĆΑL
DX	DIRECT EXPANSION	MCC	MOTOR CONTROL CENTER		
(_)	EVICTINO	MECH	MECHANICAL	UH	UNIT HEATER
(E)	EXISTING	MEZZ	MEZZANINE	UL	UNDERWRITER'S LABORATORY
EA	EACH	MFR	MANUFACTURER	UV	UNIT VENTILATOR
EA	EXHAUST AIR ENTERING AIR TEMPERATURE	MIN	MINIMUM	VAV	VARIABLE AIR VOLUME
EAT		MISC	MISCELLANEOUS	VFC	VARIABLE FREQUENCY CONT
ECUH	ELECTRIC CABINET UNIT HEATER	MMBH	MILLION BRITISH THERMAL UNITS PER HOUR	VUV	VERTICAL UNIT VENTILATOR
EDB	ENTERING DRY BULB	M/S	MOTOR STARTER		
EF	EXHAUST FAN	MTD	MOUNTED	WC	WATER COLUMN
EFF	EFFICIENCY	MTR	MOTOR		
	ELECTRIC HEATING COIL	MV	MANUAL AIR VENT	XFMR	TRANSFORMER
EHC ELEC	ELECTRICAL	MZ	MULTI-ZONE		







TYPICAL

WIRING SYMBOLS (CONT.) DESCRIPTION SYMBOL

<u>SYMBOL</u>	DESCRIPTION
H A	SWITCH – 3 POSITION SELECTOR HAND/OFF/AUTO
°	SWITCH – MANUAL SPST, NO
00	SWITCH - MANUAL SPST, NC
0000	SWITCH – MANUAL SPDT
	SWITCH - PRESSURE & VACUUM, NO
To	SWITCH - PRESSURE & VACUUM, NC
	SWITCH - TEMPERATURE ACTUATED, NO
	SWITCH - TEMPERATURE ACTUATED, NC
-~~-	THERMAL OVERLOAD, SINGLE PHASE
	THERMAL OVERLOAD CONTACTS - 3 PHASE
	TRANSFORMER
o	WIRE TERMINATION AT DEVICE
_ + _	WIRE TO WIRE TERMINATION
	WIRING NOT CONNECTED
WIRING TERMS	DESCRIPTION
SPST SPDT DPST	SINGLE POLE SINGLE THROW SINGLE POLE DOUBLE THROW DOUBLE POLE SINGLE THROW

NOTE: SOME SYMBOLS & ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.

DOUBLE POLE DOUBLE THROW

NORMALLY OPEN

NORMALLY CLOSED

D TIMED CLOSED d timed open ROTECTION AGENCY TIMED CLOSED TIMED OPEN

DPDT

NO

NC

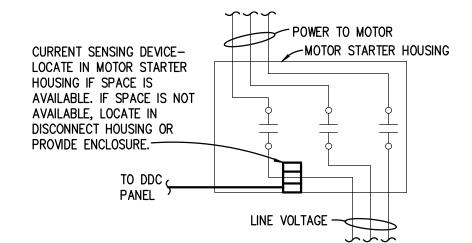
ONDITIONING UNIT (FEET OF WATER) RETURN

CONTROL CONTROL PANEL TING RETURN TING SUPPLY PRESSURE _ UNIT

LABORATORY LUME

JENCY CONTROLLER VENTILATOR

AVERAGING ELEMENT INSTALLATION DETAIL



CURRENT SWITCH INSTALLATION DETAIL NOTES:

- 1. FAN AND PUMP STATUS SHALL BE PROVEN BY CURRENT SWITCHES INDICATION BY DDC TO THE BAS.
- INSTALL CURRENT SWITCH ON MOTOR LEADS. CURRENT SWITCH SHALL BE ADJUSTED TO MEET THE CURRENT DRAW REQUIRED TO DETECT FAN BELT OR VFC LOSS OR PUMP COUPLING DETACHMENT OR VFC LOSS.

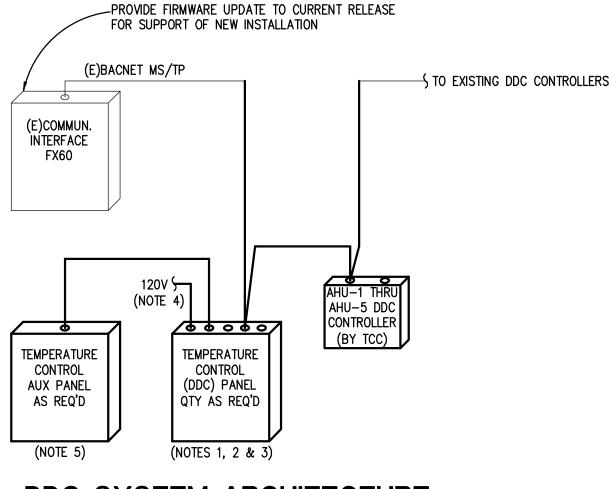
SEQUENCE OF OPERATION

- 1. ALL DELAY TIMERS DESCRIBED IN THE SEQUENCE SHALL BE ADJUSTABLE BY SYSTEM OPERATORS (CREATE REQUIRED VIRTUAL POINTS).
- UPON FAN OR PUMP MOTOR START AND AFTER 120 SECOND (ADJUSTABLE) DELAY BY DDC, IF THE CURRENT DRAW IS NOT APPROPRIATE, DDC SHALL ALARM THE MOTOR STATUS POINT. WHEN MOTOR IS ON AND NOT IN ALARM, DDC SHALL TOTALIZE RUN TIME HOURS FOR BAS USE.
- 3. UPON FAN OR PUMP MOTOR STOP AND AFTER 120 SECOND (ADJUSTABLE) DELAY BY DDC, IF THE CURRENT DRAW IS NOT ZERO, DDC SHALL ALARM THE MOTOR STATUS POINT.

GENERAL NOTES

- 1. THESE GENERAL NOTES SHALL BE APPLICABLE FOR ALL TC DRAWINGS.
- 2. "PROVIDE" IS DEFINED AS "FURNISH AND INSTALL".
- 3. TC CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS.
- 4. FOR TEMPERATURE CONTROL DRAWINGS ONLY: ALL DETAILED INFORMATION IDENTIFIED WITH HEAVY LINE WEIGHT SHALL BE PROVIDED BY TC CONTRACTOR. ALL OTHER INFORMATION IDENTIFIED WITH LIGHT LINE WEIGHT SHALL BE PROVIDED BY OTHER TRADES.
- 5. ALL CONTROL SCHEMATICS AND WIRING DIAGRAMS ARE FOR THE CLARIFICATION OF EQUIPMENT INTERLOCKING FUNCTIONS AND THE INTERFACE OF VARIOUS CONTRACTORS'S WORK AND SHALL NOT BE MISTAKEN AS SHOP DRAWINGS FOR ACTUAL INSTALLATION.
- 6. TC CONTRACTOR SHALL PROVIDE DDC CONTROLLERS AS REQUIRED TO MEET INTENT OF DESIGN DOCUMENTS. REFER TO THE PLANS FOR THE DDC FUNCTIONS THAT APPLY TO EACH MECHANICAL SYSTEM. 7. ALL TC PROVIDED COMPONENTS AND ALL TC CONTRACTOR INSTALLED WIRING SHALL
- BE LABELED PER SPECIFICATIONS.
- 8. ALL WIRING AND SYSTEM CONTROL VOLTAGES SHALL BE IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATION AND THE ELECTRICAL SPECIFICATIONS.
- 9. VARIABLE FREQUENCY CONTROLLER, FAN AND PUMP MOTOR STARTERS, STARTER WRING, CONTROL VOLTAGE TRANSFORMERS AND ASSOCIATED POWER WIRING SHALL BE PROVIDED BY OTHER TRADES. 10. DUCT SMOKE DETECTORS SHALL BE FURNISHED, INSTALLED AND WIRED TO THE FIRE
- ALARM SYSTEM BY THE ELECTRICAL CONTRACTOR. ELECTRICAL SHALL PROVIDE FIRE ALARM SYSTEM CONTROL MODULES FOR REQUIRED SAFETIES TO MOTOR STARTERS OR VFCs AS INDICATED. CONTROL MODULES SHALL BE LOCATED NEAR RESPECTIVE MOTOR STARTERS OR VFCs. TC CONTRACTOR SHALL PROVIDE INTERLOCK WIRING FROM CONTROL MODULES TO MOTOR STARTERS OR VFCs.
- 11. ALL DDC AND CONTROL INTERLOCK WIRING SHALL BE BY TC CONTRACTOR UNLESS OTHERWISE NOTED. TC CONTRACTOR SHALL COORDINATE WITH VFC AND MOTOR STARTER SUPPLIERS TO DETERMINE EXACT WIRING REQUIREMENTS AND TERMINATION POINTS.
- 12. ALL DDC AND CONTROL INTERLOCK WIRING BETWEEN COMPONENTS SHALL BE INSTALLED WITHOUT INTERMEDIATE STOPS. WIRE SPLICING AT INTERMEDIATE TERMINAL STRIPS IS NOT ACCEPTABLE.
- 13. ALL ELECTRICAL WIRING AND RACEWAY SYSTEMS SHALL COMPLY WITH ELECTRICAL SPECIFICATION REQUIREMENTS. WHERE RACEWAY IS REQUIRED, TWO SEPARATE ELECTRICAL RACEWAY SYSTEMS SHALL BE PROVIDED: ONE FOR 120V WRING AND THE OTHER FOR 24V WIRING.

- 14. TC CONTRACTOR SHALL COORDINATE ALL GRAPHICS PROVIDED AT THE BAS FRONT-END SYSTEM WITH THE OWNER FOR POINT NAMING AND COLOR CONVENTIONS.
- 15. TC CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER SUPPLIES REQUIRED FOR TC SYSTEM UNLESS OTHERWISE NOTED. REFER TO ELECTRICAL PANEL SCHEDULES FOR SPARE CIRCUITS OR CIRCUITS DEDICATED TO TEMPERATURE CONTROLS. COORDINATE CIRCUIT USE WITH ELECTRICAL CONTRACTOR.
- 16. TC CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL FIELD MOUNTED COMPONENTS.
- 17. THERMOSTATS AND SPACE TEMPERATURE SENSORS SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. PROVIDE GUARDS FOR SPACE TEMP SENSORS LOCATED IN PUBLIC AREA.
- 18. TC CONTRACTOR SHALL PROVIDE AUXILIARY PANELS FOR REQUIRED PANEL MOUNTED EQUIPMENT SUCH AS RELAYS, TRANSDUCERS, CONTROL TRANSFORMERS, ETC. AUXILIARY PANELS SHALL BE LOCATED NEXT TO ASSOCIATED DDC PANEL. 19. REMOTELY MOUNTED FIELD DEVICES SUCH AS RELAYS, CONTROL TRANSFORMERS, ETC.,
- SHALL BE HOUSED IN AN ENCLOSURE PROVIDED BY THE TC CONTRACTOR. 20. CONTROL TRANSFORMERS WHEN REQUIRED SHALL BE SIZED FOR 150% OF ACTUAL LOAD.
- 21. FREEZESTATS SHALL BE MOUNTED ON UPSTREAM FACE OF COOLING COILS. FREEZESTAT QUANTITY SHALL BE ONE PER 20 SQ. FT OF CROSS SECTIONAL AREA.
- 22. CURRENT SWITCHES USED FOR OPERATIONAL STATUS SHALL HAVE CURRENT THRESHOLD SETPOINT ADJUSTED TO INDICATE BELT OR DRIVE FAILURE.
- 23. ALL CONTROL VALVES, CONTROL DAMPERS AND ASSOCIATED CONTROL ACTUATORS IDENTIFIED ON TC DRAWINGS SHALL BE FURNISHED BY TC CONTRACTOR UNLESS OTHERWISE NOTED. DAMPER SIZE AND LOCATIONS ARE INDICATED ON MECHANICAL FLOOR PLAN DRAWINGS.
- 24. ALL CONTROL VALVES AND DAMPERS FURNISHED BY THE TC CONTRACTOR SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR. ALL PIPE PENETRATIONS AND BASIC FITTINGS REQUIRED FOR SENSOR INSTALLATIONS SHALL BE PROVIDED BY MECHANICAL CONTRACTOR.
- 25. DAMPER ACTUATORS SHALL BE INSTALLED BY TC CONTRACTOR UNLESS OTHERWISE INDICATED.
- 26. ALL INSTRUMENTATION TUBING REQUIRED FOR DPS AND DPT COMPONENT INSTALLATIONS SHALL BE PROVIDED BY TC CONTRACTOR.
- 27. TC CONTRACTOR SHALL FIELD MOUNT ALL REQUIRED PACKAGED CONTROL COMPONENTS FURNISHED BY EQUIPMENT SUPPLIERS WHERE INDICATED. ALL REQUIRED 24V AND 120V FIELD WIRING SHALL BE PROVIDED BY TC CONTRACTOR UNLESS NOTED OTHERWISE. TC CONTRACTOR SHALL COORDINATE SPECIFIC SYSTEM WIRING REQUIREMENTS WITH PACKAGED EQUIPMENT SUPPLIERS.



DDC SYSTEM ARCHITECTURE TYPICAL - NO SCALE

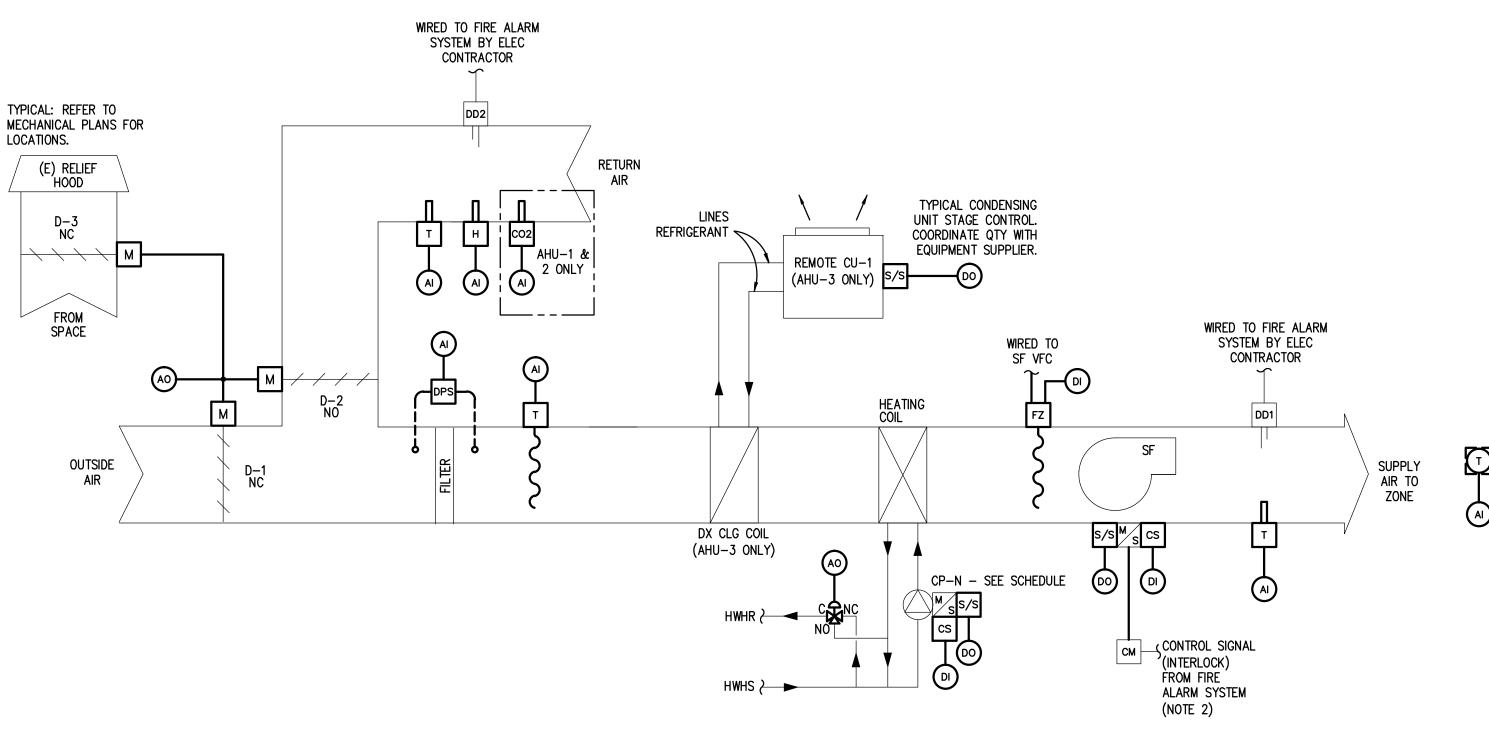
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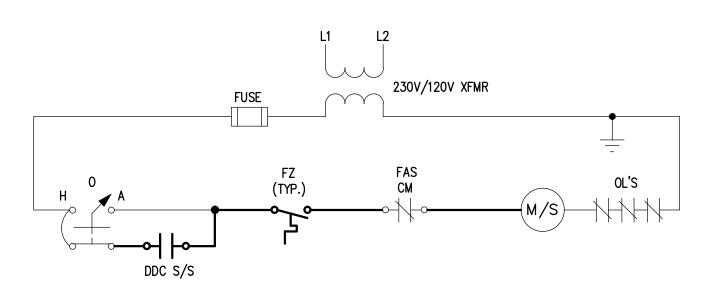
- 1. EXISTING BUILDING AUTOMATION SYSTEM IS JCI METASYS SYSTEM. NEW DDC SYSTEM COMPONENTS SHALL BE CONNECTED TO NEW NETWORK COMMUNICATIONS. TC CONTRACTOR SHALL UPGRADE THE EXISTING FRONT-END BAS HARDWARE/SOFTWARE AS NECESSARY TO ACCOMMODATE NEW WORK AND PROVIDE GRAPHICS PER SPECIFICATION FOR NEW EQUIPMENT.
- 2. REFER TO TEMPERATURE CONTROL SCHEMATICS FOR THE REQUIRED POINTS ASSOCIATED FOR EACH SYSTEM.
- 3. TC CONTRACTOR SHALL DETERMINE DDC PANEL QUANTITY AND LOCATIONS BASED ON POINT DENSITIES AND AVAILABLE MOUNTING SPACE. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND COORDINATE WITH OTHER TRADES.
- 4. TC CONTRACTOR SHALL PROVIDE REQUIRED POWER SUPPLIES FOR TEMPERATURE CONTROL SYSTEM COMPONENTS.
- 5. AUXILIARY PANEL FOR GAUGES, TRANSMITTERS, RELAYS, POWER TRANSFORMERS, ETC.
- 6. SEE MECHANICAL PLANS AND SCHEDULES FOR LOCATIONS AND QUANTITIES.



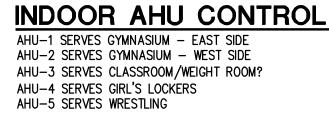
DRAWING NO.

CONSTRUCTION SEAL
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Canton High School Remodeling
Plymouth Canton Community Schools DRAWING TITLE TEMPERATURE CONTROL STANDARDS AND GENERAL NOTES
ISSUE DATES
01–19–2017 BIDS
DATE: ISSUED FOR: DRAWN ZAV CHECKED GRN APPROVED RNR
PROJECT NO. 13083E DRAWING NO.









<u>NOTES:</u>

- ACTUATORS.

- INDOOR AIR HANDLING UNIT AHU–1 & –2:

- ECONOMIZER.
- to the coil.
- 11. SPACE TEMP SETPOINTS SHALL BE:

UNOCCUPIED OCCUPIED HE OCCUPIED CO UNOCCUPIED

- 12. <u>AHU-1 & 2 0</u> PROPORTIONALLY E MAX/MIN (FULL OC LEVEL AS FOLLOWS: <u>C02</u> 600 PPM
 - 1,100 PPM
- BELOW.
- ARE DETECTED.
- SWITCH.

ZONE SPACE TEMP SENSOR W/GUARD (SEE FLOOR PLANS FOR LOCATION)

1. DAMPERS ARE PACKAGED WITH AHU. TC CONTRACTOR SHALL PROVIDE DAMPER

2. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE ALARM SYSTEM COMPONENTS AND WIRING FROM FIRE ALARM PANEL TO CONTROL MODULE. TC CONTRACTOR SHALL PROVIDE WIRING FROM CONTROL MODULE TO VFC SAFETY CIRCUIT.

SEQUENCE OF OPERATION

1. ALL SETPOINTS, DELAYS, AND DEADBANDS INCLUDING RESET SCHEDULE SETPOINTS DESCRIBED IN SEQUENCE SHALL BE ADJUSTABLE BY SYSTEM OPERATORS. APPROPRIATE DEADBANDS SHALL BE USED TO PREVENT SHORT CYCLING SITUATIONS. ALL MOTOR CONTROL SWITCHES SHALL BE IN "AUTO" POSITION.

2. SUPPLY FAN SHALL HAVE START/STOP CAPABILITY FROM THE DDC/BAS SYSTEM. AHU SHALL OPERATE BASED ON BAS TIME SCHEDULED OCCUPIED MODE (COMPENSATED BY OPTIMUM START PROGRAM) AND UNOCCUPIED CYCLE MODE. 3. SUPPLY FAN STATUS SHALL BE MONITORED BY DDC THRU RESPECTIVE CURRENT SWITCH. SF CURRENT SWITCH SHALL PROVIDE FEEDBACK TO ENABLE TEMPERATURE

CONTROLS. ABNORMAL STATUS CONDITION FOR SF SHALL ACTIVATE ALARM. DDC SHALL TOTALIZE RUN TIME HOURS OF OPERATION FOR THE FAN FOR BAS DISPLAY. 4. WHEN AHU IS ACTIVATED DURING OCCUPIED MODE; OUTSIDE, RETURN & RELIEF AIR DAMPERS (CALLED DAMPERS HEREIN) SHALL BE ALLOWED TO MODULATE AS

DESCRIBED. WHEN AHU IS DEACTIVATED OR OPERATING IN UNOCCUPIED NIGHT CYCLE MODE OR OPTIMUM START MODE, DAMPERS SHALL REMAIN CLOSED TO OUTSIDE AIR. 5. DDC SHALL ACTIVATE HEATING COIL CIRC PUMP WHENEVER OA TEMP IS BELOW 55°F WITH SF ACTIVATED OR WHENEVER OA TEMP IS BELOW 40°F WITH SF DEACTIVATED. PUMP STATUS SHALL BE MONITORED BY DDC THRU CURRENT SWITCH. ABNORMAL STATUS CONDITION SHALL ACTIVATE ALARM. DDC SHALL TOTALIZE RUN TIME HOURS OF OPERATION FOR THE PUMP FOR BAS DISPLAY.

6. <u>AHU-1 AND AHU- 2 ONLY:</u> DEMAND CONTROLLED VENTILATION (DCV) SHALL OVERRIDE THE CONTROL OF THE DAMPERS EXCEPT WHEN THE UNIT IS IN 7. HEATING AND COOLING CONTROL SHALL NOT OVERLAP.

8. WHEN SPACE TEMP IS BELOW HEATING SETPOINT, DDC SHALL KEEP DAMPERS AT MINIMUM OA POSITION AND MODULATE HEATING COIL VALVE TO MAINTAIN SPACE TEMP SETPOINT. DX COOLING CONTROL REMAINS OFF.

9. WHEN SPACE TEMP IS ABOVE COOLING SETPOINT AND OA ENTHALPY IS LESS THAN RETURN AIR ENTHALPY AND OUTSIDE AIR HUMIDITY IS LESS THAN 60% RH, DDC SHALL MODULATE DAMPERS ABOVE MINIMUM POSITION TO ACHIEVE FREE COOLING AS 1ST STAGE COOLING AND THEN STAGE DX COOLING (AHU-3 ONLY) AS NEEDED TO MAINTAIN SPACE TEMPERATURE SETPOINT. DDC SHALL CLOSE THE HEATING VALVE

10. WHEN SPACE TEMP IS ABOVE COOLING SETPOINT AND OA ENTHALPY IS GREATER THAN RETURN AIR ENTHALPY, DDC SHALL MODULATE DAMPERS TO THE MINIMUM OA POSITION AND STAGE DX COOLING (AHU-3 ONLY) AS NEEDED TO MAINTAIN SPACE TEMP SETPOINT. DDC SHALL CLOSE THE HEATING VALVE TO THE COIL.

HEATING SETPOINT:	62°F (ADJUSTABLE)	
EATING SETPOINT:	70°F (ADJUSTABLE)	
ooling setpoint:	74°F (ADJUSTABLE)	
COOLING SETPOINT:	82°F (ADJUSTABLE)	
<u>DNLY:</u> MINIMUM OA	DAMPER SETPOINT SHALL BE RESE	ΞT
	SE LOAD VENTILATION REQUIREMENT) AN	
CUPANCY REQUIREMENT	I) BASED ON RETURN AIR CARBON DIOXIE)E

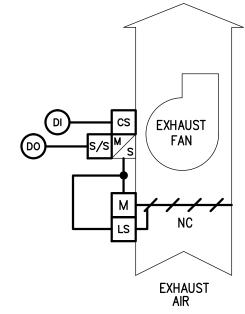
OA DAMPER MIN POSITION MIN-MIN CFM SETPOINT MAX-MIN CFM SETPOINT

13. TC CONTRACTOR SHALL COORDINATE DAMPER POSITIONS WITH AIR BALANCER TO ACHIEVE THESE AIRFLOWS. 14. FREEZESTAT(S) SHALL DEACTIVATE SUPPLY FAN WHEN TEMPERATURE IS 35'F OR

15. DUCT SMOKE DETECTOR(S) SHALL DEACTIVATE SF WHEN PRODUCTS OF COMBUSTION

16. FILTER STATUS SHALL BE MONITORED BY DDC THRU DIFFERENTIAL PRESSURE

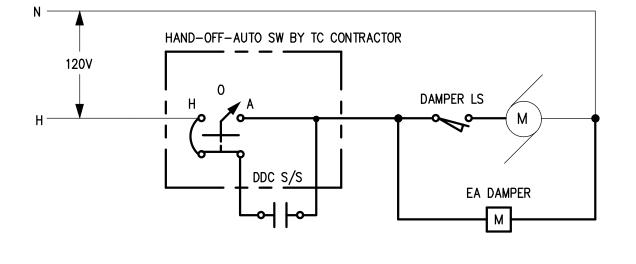
17. WHEN AHU IS DEACTIVATED, SUPPLY FAN AND DX COOLING (AHU-3 ONLY) SHALL TURN OFF, DAMPERS SHALL CLOSE TO OUTSIDE AIR. WHEN OA TEMP IS BELOW 40°F AND AHU IS DEACTIVATED, HEATING COIL VALVE SHALL BE MODULATED BY DDC TO MAINTAIN LOW LIMIT DAT TEMP SETPOINT OF 50°F. DDC SHALL NIGHT CYCLE THE AHU ON/OFF TO MAINTAIN UNOCCUPIED SETPOINTS BASED ON SPACE TEMP SENSOR. DDC SHALL MAINTAIN 2°F DEADBAND AROUND SETPOINTS.



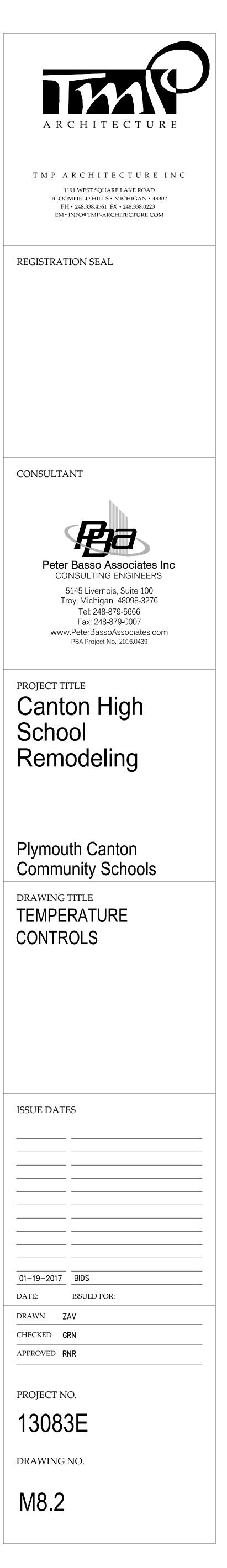
EXHAUST FAN CONTROL TYPICAL

NOTES:

- 1. REFER TO MECHANICAL SCHEDULES FOR QUANTITIES AND FLOOR PLANS FOR LOCATIONS. SEQUENCE OF OPERATION:
- 1. EXHAUST FAN SHALL BE STARTED AND STOPPED BY DDC BASED ON BAS TIME OF DAY SCHEDULE. WIRING INTERLOCK SHALL OPEN DAMPER. DAMPER LIMIT SWITCH SHALL ENABLE FAN TO RUN.
- 2. DDC SHALL MONITOR EF RUN STATUS THRU CURRENT SWITCH. ABNORMAL STATUS CONDITION SHALL ACTIVATE ALARM. DDC SHALL TOTALIZE RUN TIME HOURS OF OPERATION.







ELECTRICAL SYMBOL LIST

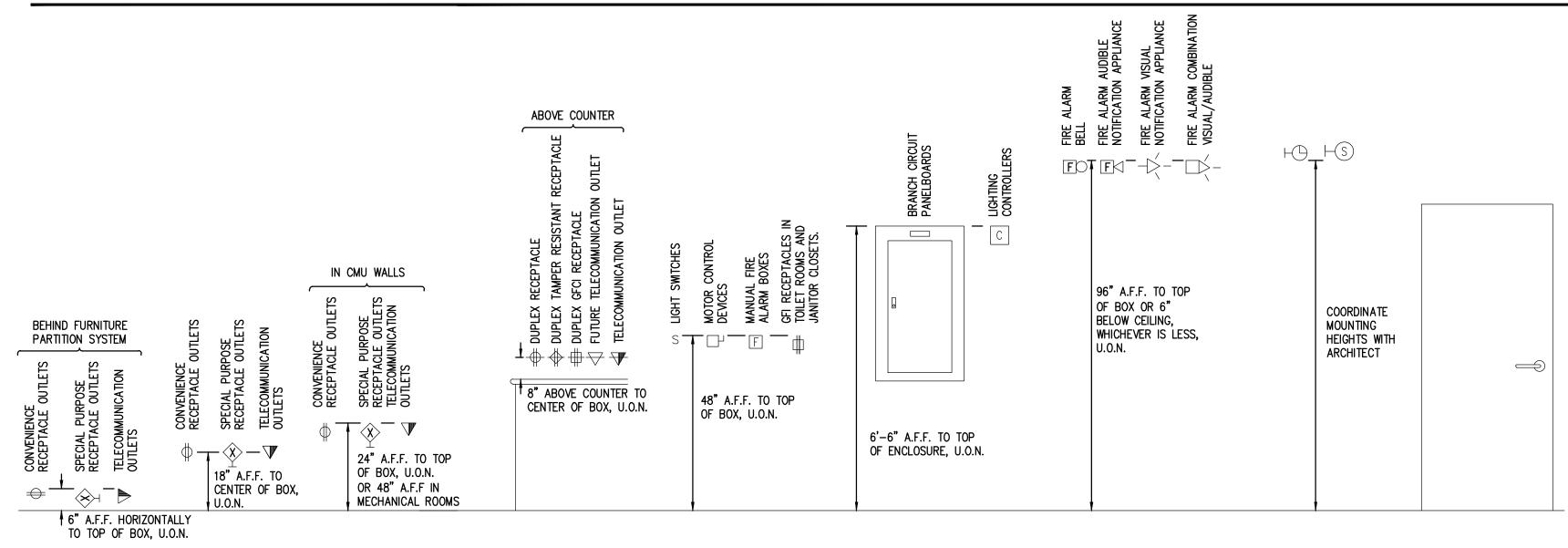
(NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT)

<u>'MBOL</u> FX	<u>Description</u> Fixture type	<u>SYMBOL</u>	DESCRIPTION TWO-WAY COMMUNICATION SYSTEM	SYMBOL CP	DESCRIPTION CONTROL PANEL	<u>SYM</u>
		TWC	CALL STATION	\sim	MOTOR	
	LIGHTING FIXTURE	TWCD	TWO-WAY COMMUNICATION SYSTEM AUTO DIALER	VFC	VARIABLE FREQUENCY CONTROLLER.	ME
	DIRECT/INDIRECT LIGHTING FIXTURE		TWO-WAY COMMUNICATION SYSTEM		MANUAL CONTROLLER	K
	EMERGENCY FIXTURE	TWCA	ANNUNCIATOR & COMMUNICATION PANEL			DC
		TWCP	TWO-WAY COMMUNICATION SYSTEM POWER SUPPLY WITH BATTERY BACK-UP		MAGNETIC CONTROLLER	KF
	NIGHT LIGHTING FIXTURE		TWO-WAY COMMUNICATION SYSTEM AUTO DIALER		COMBINATION MAGNETIC CONTROLLER	CF
FX-NL		TWCDP	POWER SUPPLY WITH BATTERY BACK-UP		NON-FUSIBLE DISCONNECT SWITCH	DE
	LIGHTING FIXTURE	RGP	REMOTE GENERATOR ANNUCIATOR PANEL		FUSIBLE DISCONNECT SWITCH	
	EMERGENCY FIXTURE	ATS	AUTOMATIC TRANSFER SWITCH	CB	ENCLOSED CIRCUIT BREAKER	DE
⊣∕нО	WALL MOUNTED LIGHTING FIXTURE	UPS	UN-INTERRUPTABLE POWER SUPPLY		PUSH BUTTON STATION	RE
\bigcirc	LIGHTING FIXTURE	CSX	LOW VOLTAGE CONTROL STATION	J	JUNCTION BOX	
$\widehat{}$	EMERGENCY FIXTURE		"X" INDICATES TYPE	\bullet	HARD WIRE POWER CONNECTION	;
\bigcirc	DIRECTIONAL LIGHTING FIXTURE	φ	SINGLE RECEPTACLE	DP	AUTOMATIC DOOR CONTROLLER	
\odot	PENDANT LIGHTING FIXTURE	Φ	DUPLEX RECEPTACLE			
\bigcirc	WALL SCONCE	\$	QUAD RECEPTACLE	PP	AUTOMATIC DOOR PUSH PAD OPERATOR	E-
	LIGHTING TRACK	Ψ	ABOVE COUNTER DUPLEX RECEPTACLE	۲	GROUND ROD	
\bigtriangledown	TRACK LIGHTING FIXTURE	- \$ -	(SIMILAR FOR TAMPER RESISTANT, QUADS,		GROUND CONNECTION	
•	POLE MOUNTED LIGHTING FIXTURE	rth	EMERGENCY AND GFI RECEPTACLES) DUPLEX RECEPTACLE-GROUND FAULT CIRCUIT	×	CONDUIT SLEEVE WITH BUSHINGS LENGTH AS REQUIRED	٩
	Pole mounted lighting fixture — post top	Ч	INTERRUPTER		"X" INDICATES CONDUIT SIZE	Ē
		•	DUPLEX EMERGENCY RECEPTACLE	0	CONDUIT UP	U. M
\odot	BOLLARD LIGHTING FIXTURE	\Leftrightarrow	TAMPER RESISTANT RECEPTACLE	•	CONDUIT DOWN	-
	EMERGENCY LIGHTING UNIT	\Rightarrow	QUAD TAMPER RESISTANT RECEPTACLE	\triangleleft	EMPTY BOX FOR FUTURE	
\mathbf{X}	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)	₩	ABOVE COUNTER DUPLEX	1	ABOVE COUNTER EMPTY BOX FOR	_•
		\Rightarrow	TAMPER RESISTANT RECEPTACLE	\triangleleft	FUTURE TELECOMMUNICATION OUTLET	Γ
₩ †	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)		DUPLEX UPS RECEPTACLE	\bigcirc	EMPTY BOX FOR FUTURE CEILING MOUNTED TELECOMMUNICATION OUTLET REFE	ER TO
->>	EXIT LIGHTING FIXTURE - WALL MOUNTED	椞	USB RECEPTACLE		TELECOMMUNICATION OUTLET	
LTD	EMERGENCY LOAD TRANSFER DEVICE	ÌF	4 PORT USB CHARGING STATION	×		
S	SINGLE POLE TOGGLE SWITCH	\bigcirc	CEILING MOUNTED	X	ABOVE COUNTER TELECOMMUNICATION OUTLET "X" INDICATES TYPE	
S2	TWO POLE TOGGLE SWITCH	_	DUPLEX RECEPTACLE	-		
S3	3 WAY TOGGLE SWITCH		POWER POLE		TELECOMMUNICATION CEILING MOUNTED OUTLET "X" INDICATES TYPE	
S4	4 WAY TOGGLE SWITCH	X	SPECIAL RECEPTACLE – REFER TO ELECTRICAL STANDARD SCHEDULES	KXXXXX	TELECOMMUNICATION BACKBOARD	E
K	KEY OPERATED SWITCH	φ φ φ		⊢_TGB	TELECOMMUNICATION GROUNDING BUS BAR	(
K3	3 WAY KEY OPERATED SWITCH		MULTI-OUTLET RACEWAY		TELECOMMUNICATION MAIN GROUNDING BUS BA	AR (
K4	4 WAY KEY OPERATED SWITCH		MULTI-SERVICE DROP SEE ELECTRICAL DETAILS AND DIAGRAMS SHEET			чк <
D	DIMMER SWITCH		"X" INDICATES TYPE		INTERCOM OUTLET	
D3	3 WAY DIMMER SWITCH	PTX	POKE THRU SERVICE FITTING "X" INDICATES TYPE	S	SPEAKER	
Do -	DIMMER OCCUPANCY SENSOR SWITCH	FBX	FLOOR BOX SERVICE FITTING	HS	SPEAKER - WALL MOUNTED	S
DL	LOW VOLTAGE DIMMER SWITCH		"X" INDICATES TYPE	MIC	MICROPHONE	(
Sp	PILOT SWITCH	AFX	ACCESS FLOOR SERVICE FITTING "X" INDICATES TYPE	VC	VOLUME CONTROL/STATION SELECTOR	Ţ
		RX	CORD REEL "X" INDICATES TYPE	BO	SIGNALING BELL	
			DUAL SWITCHING FOR INNER/OUTER LAMPS			~
		55	OF FLUORESCENT LIGHT FIXTURES	\bigcirc	SINGLE FACE CLOCK - CEILING MOUNTED	اب
		5353	3-WAY DUAL SWITCHING FOR INNER/OUTER	НĠ	SINGLE FACE CLOCK - WALL MOUNTED	I
		3333	LAMPS OF FLUORESCENT LIGHT FIXTURES	8	DOUBLE FACE CLOCK - CEILING MOUNTED	0
		\$4\$4	4-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	S	DOUBLE FACE COMBINATION CLOCK/SPEAKER	<u> </u>
		St	DIGITAL TIME SWITCH	_	CEILING MOUNTED	
		Sı	ILLUMINATED TOGGLE SWITCH FOR CONTROL OF	H	DOUBLE FACE CLOCK - WALL MOUNTED	
			LIGHTING ON CRITICAL POWER-ILLUMINATED WHEN SWITCH IS IN "OFF" POSITION	S	DOUBLE FACE COMBINATION CLOCK/SPEAKER WALL MOUNTED	
		SL	LOW VOLTAGE SWITCH			
		So	OCCUPANCY SENSOR REFER TO ELECTRICAL	T∕C	TIME CLOCK	
		S02	STANDARD SCHEDULES OCCUPANCY SENSOR	С	CONTACTOR	⊢−G
					RUATOCELL	⊢F

OCCUPANCY SENSOR "X" INDICATES TYPE

OSX

STANDARD MOUNTING HEIGHTS



 (P)

T

PHOTOCELL

TWIST TIMER

DESCRIPTION	<u>SYMBOL</u>	DESCRI
SECURITY CAMERA	F	MANUA
MOTION DETECTOR	SD	SMOKE
SECURITY KEY SWITCH	DD	DUCT S
DOOR CONTACT	CO	CARBOI
KEY PAD	RT	REMOTE
ACCESS CONTROL STATION	TD	THERM
DURESS PUSH BUTTON STATION		PROJEC
DELAYED EGRESS	FO	FIRE AI
REQUEST TO EXIT STATION	F⊲	FIRE AI
CIRCUIT BREAKER		FIRE AI "XX" IN
DRAWOUT CIRCUIT BREAKER MANUALLY/ OPERATED		IF NO I
	□ × _{xx}	FIRE AI "XX" IN
DRAWOUT CIRCUIT BREAKER ELECTRICALLY/ OPERATED		IF NO I
ELECTRICALLT/ OPERATED	-(F)	FIRE AI NOTIFIC
SWITCH)—(XX	"XX" IN
AUTOMATIC OR MANUAL TRANSFER SWITCH	\searrow	IF NO I
FUSE	-\XX	FIRE AI
		"XX" IN IF NO I
	(F)	FIRE AL
POTENTIAL TRANSFORMER		CEILING
LIGHTNING ARRESTOR PANELBOARD	◀ F	FIREFIG
"X" INDICATES PANELBOARD NAME	FACP	FIRE AI
GROUND	FAA	FIRE AI
STRESS CONE TERMINATION	NAC	NOTIFIC
SECURITY KEY INTERLOCK		EXTEND
ENGINE GENERATOR	IM	ADDRES
UTILITY METER	CM	ADDRES
ELECTRONIC METERING UNIT	TS	TAMPE
AMMETER	FS	FLOW S
VOLTMETER	DR	MAGNE
AMMETER SWITCH		
VOLTMETER SWITCH		
SURGE PROTECTIVE DEVICE		
CONTROL RELAY		
TIME DELAY RELAY		
THERMAL OVERLOAD RELAY		
NORMALLY OPEN CONTACTS		
NORMALLY CLOSED CONTACTS		
N.O. PUSH BUTTON SINGLE CIRCUIT		
N.C. PUSH BUTTON SINGLE CIRCUIT		
CABLE VAULT "X-X" INDICATES TYPE		

BRANCH CIRCUIT PANELBOARD

MOTOR CONTROL CENTER

TRANSFORMER

GROUND BUS

⊢-PB-

⊢FB⊣

PLUG IN BUSWAY

FEEDER BUSWAY

DISTRIBUTION PANEL

30L	DESCRIPTION
]	MANUAL FIRE ALARM BOX
	SMOKE DETECTOR
)	DUCT SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR
	REMOTE TEST STATION (FOR DUCT DETECTOR)
	THERMAL DETECTOR
	PROJECTED BEAM DETECTOR
þ	FIRE ALARM BELL
\bowtie	FIRE ALARM AUDIBLE NOTIFICATION APPLIANCE
<_ ^{×−} xx	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "XX" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
	FIRE ALARM COMBINATION VISUAL/ AUDIBLE "XX" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
Ś− xx	FIRE ALARM COMBINATION VISUAL/ AUDIBLE NOTIFICATION APPLIANCE- CEILING MOUNTED "XX" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
∕_xx	FIRE ALARM VISUAL NOTIFICATION APPLIANCE CEILING MOUNTED "XX" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
	FIRE ALARM AUDIBLE NOTIFICATION APPLIANCE - CEILING MOUNTED
F	FIREFIGHTERS PHONE JACK
CP	FIRE ALARM CONTROL PANEL
A	FIRE ALARM ANNUNCIATOR PANEL
С	NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL
1	ADDRESSABLE MONITORING MODULE
1	ADDRESSABLE CONTROL MODULE
5	TAMPER SWITCH
5	FLOW SWITCH
2	MAGNETIC DOOR RELEASE

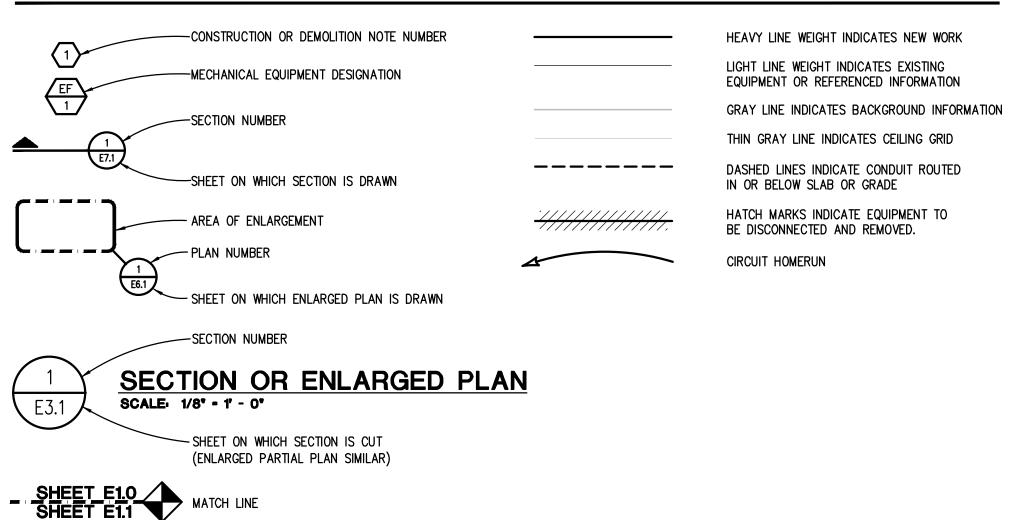
ELECTRICAL DRAWING INDEX

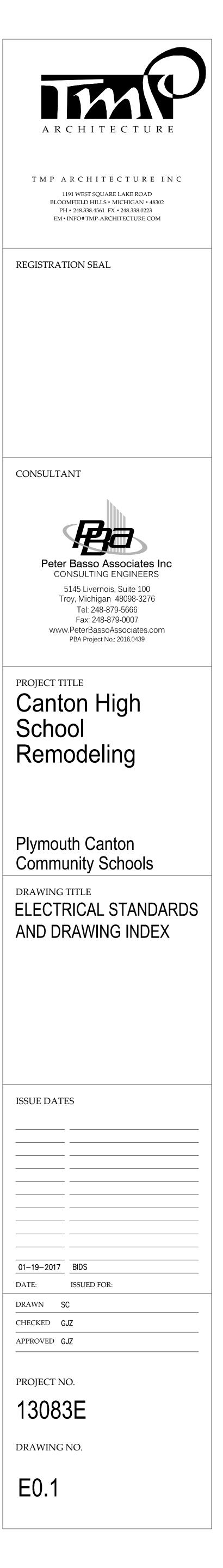
<u>SHEET NO.</u>	<u>SHEET_TITLE</u>
E0.1	ELECTRICAL STANDARDS AND DRAWING INDEX
E0.2	ELECTRICAL STANDARD SCHEDULES
E0.3	FIRST FLOOR ELECTRICAL COMPOSITE PLAN
E0.4	SECOND FLOOR ELECTRICAL COMPOSITE PLAN
ED1.1D	FIRST FLOOR ELECTRICAL DEMOLITION PLAN - ZONE D
ED1.1E	FIRST FLOOR ELECTRICAL DEMOLITION PLAN - ZONE E
E2.1D	FIRST FLOOR LIGHTING PLAN — ZONE D
E2.1E	FIRST FLOOR LIGHTING PLAN – ZONE E
E2.2E	SECOND FLOOR LIGHTING PLAN - ZONE E
E3.1D	FIRST FLOOR POWER PLAN - ZONE D
E4.1	ENLARGED ELECTRICAL PLANS
E4.2	ENLARGED ELECTRICAL MEZANINE PLANS
E7.1	ELECTRICAL DETAILS AND DIAGRAMS
E7.2	ELECTRICAL DETAILS AND DIAGRAMS

ELECTRICAL ABBREVIATION LIST

ABBREVIATION A AF A.F.F. AIC AL AR AT ATS AUX BKR BPS C CB CFCI CKT CT DEMO DIM DISC DP DS DWG EBU EC ELEC EM/ EMERG EMT EO EPO EWC EXIST FA FLA FLR	DESCRIPTION AMPERES AMPERES FRAME (BREAKER RATING) ABOVE FINISH FLOOR AMPS INTERRUPTING CAPACITY AUDIENCE LEFT AUDIENCE RIGHT AMPERES TRIP (BREAKER SETTING) AUTOMATIC TRANSFER SWITCH AUXILIARY BREAKER BOLTED PRESSURE SWITCH CONDUIT CIRCUIT BREAKER CONTRACTOR FURNISHED, CONTRACTOR INSTALLED CIRCUIT CURRENT TRANSFORMER DEMOLITION DIMENSION DISCONNECT DISTRIBUTION PANEL DOWNSTAGE DRAWING EMERGENCY BATTERY UNIT ELECTRICAL METALLIC TUBING ELECTRICAL EMERGENCY ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EMERGENCY POWER OFF ELECTRIC WATER COOLER EXISTING FIRE ALARM FULL LOAD AMPS FLOOR	ABBREVIATION G/GRD/EG GFCI GFP HOA HP HV HZ IG JB KV KVA KWH LA LP LDP MAX MCB MCC MDP MECH MIN MISC. MLO MTD MTG MTR N NC NEC NF NIC NIC NIC	DESCRIPTION GROUND GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT PROTECTION HAND-OFF-AUTO HORSEPOWER HIGH VOLTAGE HERTZ ISOLATED GROUND JUNCTION BOX KILOVOLT KILOVOLT - AMPERES KILOVATT KILOVATT - HOURS LIGHTNING ARRESTOR LIGHTNING ARRESTOR LIGHTNING DISTRIBUTION PANEL MAXIMUM MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MAIN DISTRIBUTION PANEL MECHANICAL MINIMUM MISCELLANEOUS MAIN LUGS ONLY MOUNTED MOUNTING MOTOR NEUTRAL NORMALLY CLOSED NATIONAL ELECTRICAL CODE NON-FUSIBLE NOT IN CONTRACT NIGHT LIGHT	ABBRE VIATION OC OFCI OFOI PPB PH PT PDP RECEPT. RDP RP RSC SCHED SWBD SWBD SWBD SWBD SWBD SWBD SWBD SWB	DESCRIPTION ON CENTER OWNER FURNISHED, CONTRACTOR INSTALLED OWNER FURNISHED, OWNER INSTALLED POLE PUSHBUTTON STATION PHASE POTENTIAL TRANSFORMER POWER DISTRIBUTION PANEL RECEPTACLE RECEPTACLE DISTRIBUTION PANEL RECEPTACLE PANEL RIGID STEEL CONDUIT SCHEDULE SWITCH SWITCHBOARD SWITCHGEAR TERMINAL BOX TELECOMMUNICATIONS TAMPER RESISTANT TELEPHONE TERMINAL BACKBOARD TYPICAL UNLESS OTHERWISE NOTED UPSTAGE VOLTS WIRE WEATHERPROOF TRANSFORMER EXPLOSION PROOF EXISTING RELOCATED
FLA	FULL LOAD AMPS	NIC	NOT IN CONTRACT	(E)	EXISTING

STANDARD METHODS OF NOTATION





		E SCHI		
TYPE	DESCRIPTION	VOLTAGE	(QTY.) LAMPS	MANUFACTURERS
L1 MEDIA CENTER	LED 2'X4' RECESSED LAY-IN GRID STYLE LIGHT FIXTURE: ARCHITECTURAL STYLE CENTER BASKET STYLE, MAX 4" DEEP HOUSING WITH A POLYESTER POWDER COAT MATTE WHITE FINISH, ACRYLIC DIFFUSER WITH ROUND ACCENT STRIP. RATED FOR A MINIMUM OF 50,000 HOURS OF OPERATION. 5 YEAR WARRANTY.	MULTI	4000 LUMENS 4100K 80CRI	 FOCAL POINT AERION SERIES METALUX 24ALN SERIES COLUMBIA LTGR24 SERIES LSI LPRT SERIES
L1E MEDIA CENTER	SAME AS LIGHT FIXTURE TYPE L1 EXCEPT PROVIDE GTD.			
L2 MEDIA CENTER	SAME AS LIGHT FIXTURE TYPE "L1" EXCEPT 2'X2'.		2000 LUMENS 4100K 80CRI	
L3 MEDIA CENTER	LED PENDANT 48" SQUARE "FRAME" DECORATIVE FIXTURE. CONTINOUS LED 5" HIGH BY 5" WIDE OR LESS <u>NO UP LIGHT.</u> SUSPENDED AIRCRAFT CABLING MOUNTING. EXTRUDED ACRYLIC LENS, MINIMUM OF 50,000 HOURS OF OPERATION. 5 YEAR WARRANTY. FIXTURE AND MOUNTING BRACKETS SHALL BE WHITE. CUSTOM COLOR. MOUNT BOTTOM OF FIXTURE AT 8'-0" AFF.	MULTI	8,000 LUMENS Maximum 4100k 80CRI	 1. BIRCHWOOD ERIKA LED SERIES 2. ZENITH "DOWN" SERIES 3. SPI NOVATO SERIES 4. BARICAN
L4 MEDIA CENTER	6" SQUARE RECESSED LED DOWN LIGHT FIXTURE: GALVANIZED STEEL CONSTRUCTION; MATTE-DUFFUSED FINISH STANDARD SIZE TRIM RING. LENS TO DIFFUSE LEDS, WIDE BEAM REFLECTOR WITH SEMI-SPECULAR FINISH. MINIMUM 50,000 HOURS OF OPERATION. 5 YEAR WARRANTY.	MULTI	2000 LUMENS 4100K 80CRI	 PEACHTREE 6BLSD SERIES PRESCOLITE LSF6 SERIES WILLIAMS HSQ60 GOTHEM EVO SQUARE SERIES
L4E	SAME AS LIGHT FIXTURE TYPE L4 EXCEPT PROVIDE GTD.			
L5 LECTURE THEATER	SAME AS LIGHT FIXTURE TYPE L4 EXCEPT WITH 1% DIMMING, NON FLICKER WITH 0-10V SWITCHING. PROVIDE LOW VOLTAGE WIRING FOR NEW DIMMER CONTROL. LIGHT FIXTURE CONTROL SHALL BE COMPATIBLE WITH DIMMER CONTROLLER PROVIDED. FIXTURE APERTURE CAN BE NO BIGGER THAN 6" SQUARE MAX. PROVIDE 1" WIDE WHITE TRIM RING. REWORD EXISTING OPENING AS REQUIRED TO ACCOMMODATE LIGHT FIXTURE PROVIDED.	MULTI	3000 LUMENS 3500K 80CRI	 PEACHTREE 6BLSD SERIES PRESCOLITE LSF6 SERIES WILLIAMS HSQ60 GOTHEM EVO SQUARE SERIES
L6 LECTURE THEATRE	LED COVE LIGHT FIXTURE: LENGTH AS INDICATED ON PLAN. 4" WIDE X 2 1/2" HIGH MAX. PROVIDE WITH 1% DIMMING NO FLICKER 0–10V SWITCHING. ASYMMETRIC THROW L70, ACRYLIC LENS, LIGHT FIXTURE CONTROL SHALL BE COMPATIBLE WITH DIMMER CONTROLLER PROVIDED. (ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT LENGTH AND WITH WITH EXISTING COVES PRIOR TO SHOP DRAWING APPROVAL). FIELD MEASURE EXISTING COVE SIZES PRIOR TO SHOP DRAWINGS.	MULTI	700 LUMENS PER FOOT 3500k 80CRI	1. BIRCHWOOD ASHLEY LED SEREIS 2 AXIS CCH COVE LIGHT SERIES 2. ELLIPTIPAR STYLE S315 3. LF ILLUMINATION EF600 SERIES
L7	6" APERTURE RECESSED LED DOWNLIGHT: GALVANIZED STEEL CONSTRUCTION; WIDE BEAM REFLECTOR, CLEAR APERTURE AND WHITE TRIM RING; SEMI-SPECULAR FINISH. LENS TO DIFFUSE LEDS.	MULTI	1500 LUMENS 4100K 80CRI	1. GOTHAM EVO SERIES 2. PORTFOLIO LD6A SERIES 3. PRESCOLITE LF6LED SERIES 4. WILLIAMS H60 SERIES
NOTES:				

NOTES: 1. REFER TO SPECIFICATIONS FOR DETAILED LIGHT FIXTURE CUT SHEETS.

			COPPER COM	DUCTORS		-	
OVERCURRENT	WIRE SIZE (AWG OR KCMIL)		CONDUIT SIZE				
DEVICE RATING (AMPERES)	PHASE & NEUTRAL	GROUND	SINGLE PHASE 2 WIRE+G (1PH, 1N, 1G)	SINGLE PHASE 3 WIRE+G (2PH, 1N, 1G)	THREE PHASE 3 WIRE+G (3PH, 1G)	THREE PHASE & NEUTRAL 4 WIRE+G (3PH, 1N, 1G)	
15-20	12	12	3/4"	3/4"	3/4"	3/4"	
25–30	10	10	3/4"	3/4"	3/4"	3/4"	
35–40	8	10	3/4"	3/4"	3/4"	3/4"	
45-50	8 (6)	10	3/4"	3/4"	3/4"	3/4"	
60	6 (4)	10	3/4" (1")	3/4" (1")	3/4" (1")	1" (1 1/4")	
70	4	8	1"	1 1/4"	1 1/4"	1 1/4"	
80	4 (3)	8	1"	1 1/4"	1 1/4"	1 1/4"	
90-100	3 (2)	8	1 1/4"	1 1/4"	1 1/4"	1 1/4"	
110	2 (1)	6	-	1 1/4"	1 1/4"	1 1/4" (1 1/2")	
125	1 (1/0)	6	-	1 1/4" (1 1/2")	1 1/4" (1 1/2")	1 1/2"	
150	1/0	6	-	1 1/2"	1 1/2"	1 1/2"	
175	2/0	6	-	2"	2"	2"	
200	3/0	6	-	2"	2"	2 1/2"	
225	4/0	4	-	2"	2"	2 1/2"	
250	250	4	-	2 1/2"	2 1/2"	2 1/2"	
300	350	4	-	2 1/2"	2 1/2"	3"	
350	500	3	-	3"	3"	3"	
400	500	3	-	3"	3"	3"	
450	2-4/0	2-2	-	2-2"	2-2"	2-2 1/2"	
500	2-250	2-2	-	2-2 1/2"	2-2 1/2"	2-2 1/2"	
600	2-350	2-1	-	2-2 1/2"	2-2 1/2 "	2-3"	
700	2-500	2–1/0	_	2-3"	2-3"	2-3"	
800	2-500	2–1/0	-	2–3"	2-3"	2-3 1/2"	
1000	3-400	3-2/0	_	3–3"	3–3"	3–3"	
1200	3–600	3-3/0	-	3-3 1/2"	3–3 1/2"	3–3 1/2"	
1600	4–600	4-4/0	-	4-3 1/2"	4-3 1/2"	4-3 1/2"	
2000	5-600	5-250	_	5-3 1/2"	5-3 1/2"	5-3 1/2"	

* = SEE NOTE 4

<u>NOTES:</u>

1. CONTRACTOR TO SIZE FEEDERS AND BRANCH CIRCUITS BASED ON THIS SCHEDULE AND OVER CURRENT DEVICE SIZE, UNLESS NOTED OTHERWISE. 2. CONTRACTOR MAY COMBINE 20A CIRCUITS AS NOTED IN SPECIFICATION.

3. CONDUCTORS ARE BASED ON THHN/THWN UP TO AND INCLUDING #4/0. LARGER THAN #4/0 ARE BASED ON TYPE XHHW.

CONDUCTORS ARE BASED ON 90°C, 600V. INSULATED COPPER WIRE APPLIED AT 75°C FOR TERMINATION RATED 60/75°C OR 75°C. FOR TERMINATION RATED AT 60°C, USE CONDUCTORS AND CONDUIT SIZES INDICATED IN PARENTHESES.
 CONDUIT SIZES ARE VALID FOR EMT OR RGS. CONDUIT SIZES SHALL BE ADJUSTED AS REQUIRED FOR OTHER TYPES OF CONDUIT.
 ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE REQUIRED WIRE SIZES TO ACCOMMODATE MECHANICAL EQUIPMENT LUG

SIZES. 7. SIZE OF DISCONNECT SWITCH LOCATED AT EQUIPMENT SHALL BE SIZED BASED UPON OVERCURRENT PROTECTION OF THAT DEVICE.

8. OBTAIN APPROVAL FROM ENGINEER PRIOR TO INSTALLING DIFFERENT SIZE/QUANTITY OF CONDUCTORS TO OBTAIN AN EQUIVALENT AMPACITY.
 9. SPLICE FROM ALUMINUM TO COPPER PRIOR TO ENTERING EQUIPMENT LISTED FOR USE WITH COPPER CONDUCTORS ONLY OR USE COPPER CONDUCTORS FOR THE ENTIRE LENGTH OF FEEDER.

BRANCH CIRCUIT VOLTAGE DROP WIRING SCHEDULE FOR SINGLE PHASE CIRCUITS							
BRANCH	WIRE SIZE	MAXIMUM BRANCH CIRCUIT LENGTH (IN FEET)					
CKT RATING (A)	(AWG)	120V	208V	240V	277V	480V	
20A	12	83	143	165	191	331	
	10	128	222	256	295	511	
	8	201	348	402	464	804	
	6	313	542	625	721	1250	
30A	10	85	148	170	197	341	
	8	134	232	268	309	536	
	6	208	361	417	481	833	
	4	313	542	625	721	1250	

NOTES:

 THE ABOVE TABLE VALUES ARE BASED ON COPPER CONDUCTORS, IN STEEL CONDUIT, WITH A LOAD POWER FACTOR OF 0.85 PER NEC CHAPTER 9, TABLE 9.
 PROVIDE BRANCH CIRCUIT CONDUCTORS AS INDICATED IN THE TABLE ABOVE FOR ALL LIGHTING AND RECEPTACLE

BRANCH CIRCUITS. WHERE BRANCH CIRCUITS SERVE DEDICATED EQUIPMENT, THE CONTRACTOR MAY PERFORM VOLTAGE DROP CALCULATIONS BASED ON ACTUAL EQUIPMENT CONNECTED LOAD AND PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO A MAXIMUM OF 3%. 3. CONDUCTOR SIZES ARE BASED ON MAXIMUM OF 9 CURRENT CARRYING CONDUCTORS IN A SINGLE CONDUIT.

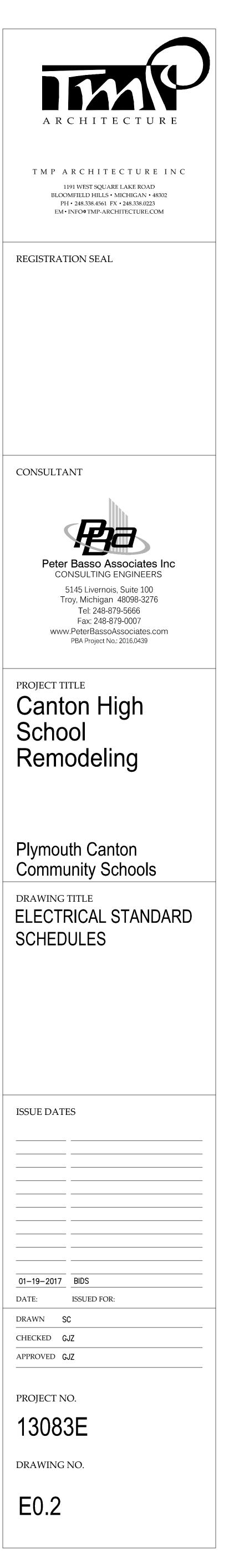
 CONDUCTOR SIZES AND DASLED ON MAXIMUM OF 9 CONNENT CANNENT CANNENT CONDUCTORS IN A SINGLE CONDUCT.
 LIMITS FOR CONDUCTOR LENGTHS SHOWN ARE BASED ON A MAXIMUM BRANCH CIRCUIT LOADING OF 64% OF THE BRANCH BREAKER RATING AND A MAXIMUM OF 3 PERCENT VOLTAGE DROP TO COMPLY WITH ASHRAE 90.1 AND THE NEC. FOR CIRCUITS LOADED GREATER THAN 64% OF BRANCH BREAKER RATING, THE CONTRACTOR SHALL PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO 3%.

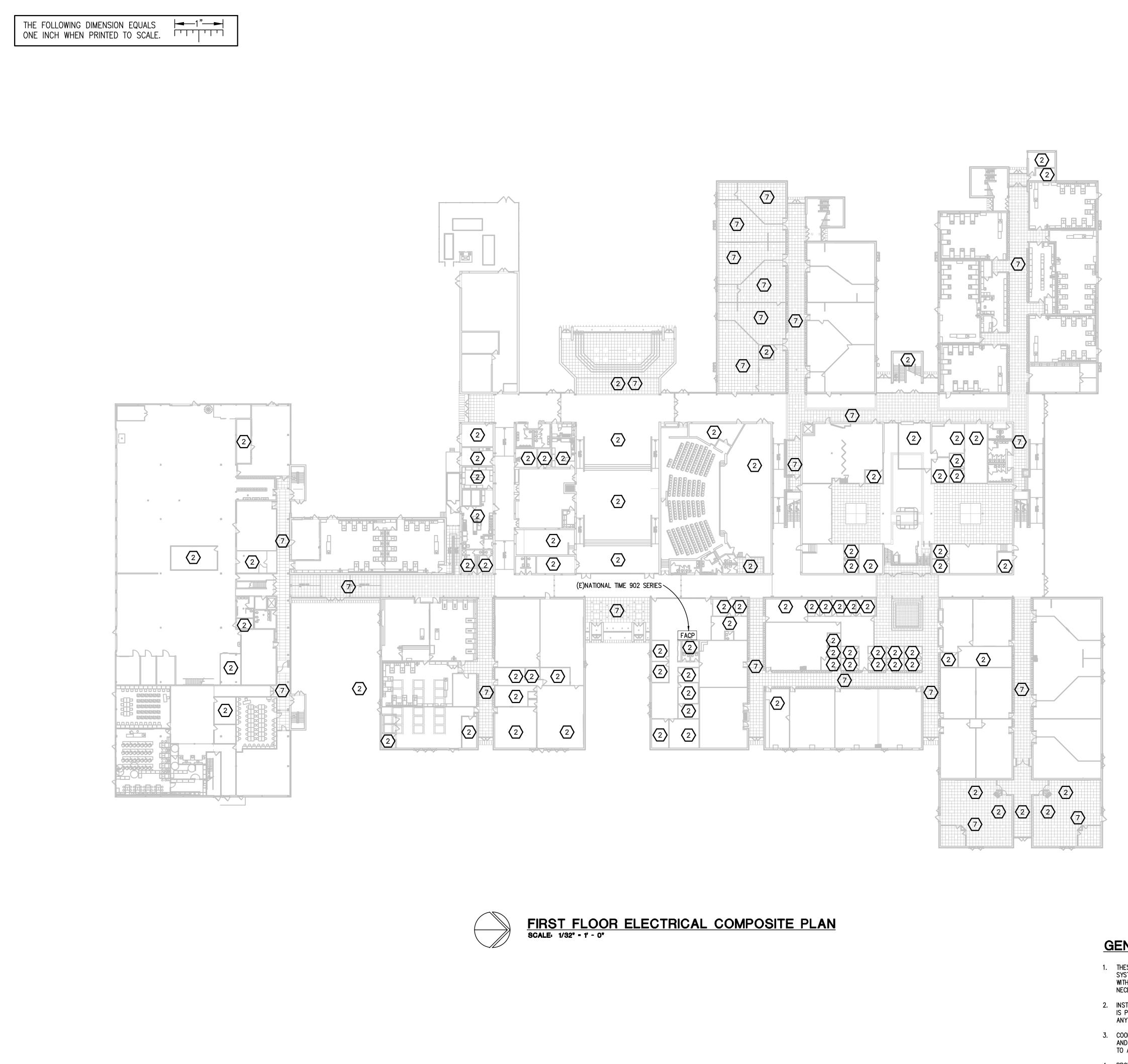
	OCCUPANCY SENSOR LEGEND					
TYPE	DESCRIPTION					
OSA	360° CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR					
OS _B	90° CEILING/WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR					
os _c	360° CEILING MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR					
OS _D	360° CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR "HIGH BAY" STYLE					
OS _E	360° CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR - CORRIDOR OPTIMIZED					
So	WALL SWITCH PASSIVE INFRARED OCCUPANCY SENSOR					
S02	WALL SWITCH PASSIVE INFRARED OCCUPANCY SENSOR - DUAL LEVEL SWITCHING					
Do	WALL DIMMER SWITCH INFRARED OCCUPANCY SENSOR					

RAC	EWAY APPLICATION SCHEDULE																	
RACEWAY			ALUMINUM RIGID CONDUIT	SURFACE RACEWAY	ELECTRICAL NONMETALLIC TUBING (ENT)	FLEXIBLE METAL CONDUIT (FMC)	GENERAL-USE OPTICAL FIBER/COMMUNICATION CABLE RACEWAY	INTERMEDIATE METAL CONDUIT (IMC)	LIQUIDTICHT FLEXIBLE METAL CONDUIT (LFMC)	LIQUIDTICHT FLEXIBLE NONMETAL CONDUIT (LFNC)	PLENUM-TYPE OPTICAL FIBER/COMMUNICATIONS CABLE RACEWAY	RIGID STEEL CONDUIT	RISER-TYPE OPTICAL FIBER/COMMUNICATIONS CABLE RACEWAY	RIGID NONMETALLIC CONDUIT (RNC) TYPE EPC-40	TYPE EPC-	HIGH DENSITY POLYTHYLENE (HDPE) SCHEDULE 40	HIGH DENSITY POLYTHYLENE (HDPE) SCHEDULE 80	KEYED NOTES
ж	EXPOSED				+			x				x						
OUTDOOR	CONCEALED (ABOVE GROUND)							Х				X						
00	UNDERGROUND			╈	┢	┢						х		х	х	x	Х	
	CONNECTED TO VIBRATING EQUIPMENT			╈	T				х									EQUIPMENT INCLUDING: TRANSFORMERS, HYDRAULIC PNEUMATIC, ELECTRIC SOLENOID, MOTOR DRIVEN EQUIPMENT
INDOOR	EXPOSED NOT SUBJECT TO PHYSICAL DAMAGE – UNFINISHED SPACES		X															
	EXPOSED NOT SUBJECT TO PHYSICAL DAMAGE – FINISHED SPACES			X														
	EXPOSED SUBJECT TO SEVERE PHYSICAL DAMAGE							X				X						RIGID STEEL CONDUIT UP TO 10'-0"AFF. LOCATIONS INCLUDE: LOADING DOCKS, CORRIDORS USED FOR TRAFFIC OF MECHANIZED CARTS AND PALLET HANDLING UNITS, MECHANICAL ROOMS
	CONCEALED IN CEILINGS, INTERIOR WALL AND PARTITIONS	Х	X															NOT TO EXCEED 6'-0" IN CEILING SPACE
	CONNECTED TO VIBRATING EQUIPMENT					X			X									EQUIPMENT INCLUDING: TRANSFORMERS, HYDRAULIC PNEUMATIC, ELECTRIC SOLENOID, MOTOR DRIVEN EQUIPMENT USE LFMC IN DAMP/WET LOCATIONS
	DAMP AND WET LOCATIONS							Х				Х						
	BELOW SLAB IN GRADE													Х	Х			PROVIDE RIGID STEEL ELBOWS WHERE CONDUIT PENETRATES SLAB. CONDUIT INSTALLED 6" BELOW BOTTOM OF SLAB
	EMBEDDED IN CONCRETE ABOVE GRADE											Х		Х	Х			
	OPTICAL FIBER OR COMMUNICATIONS CABLE IN SPACES USED FOR ENVIRONMENTAL AIR		X								Х							
	CONCEALED GENERAL PURPOSE DISTRIBUTION OF OPTICAL FIBER OR COMMUNICATION CABLE		X		T		x				х		Х					
SPECIAL APPLICATIONS	MRI		Х															
	NATATORIUMS/FOUNTAINS		X	T														USE COMPRESSION FITTINGS. PAINTED WITH CORROSION RESISTANT PAINT BY PAINTING CONTRACTOR.
Р. А			+	╉	╋	+		┢	┢	┢		$\left \right $				-+		
	GENERAL NOTES							I	I	1								

<u>GENERAL NOTES</u>

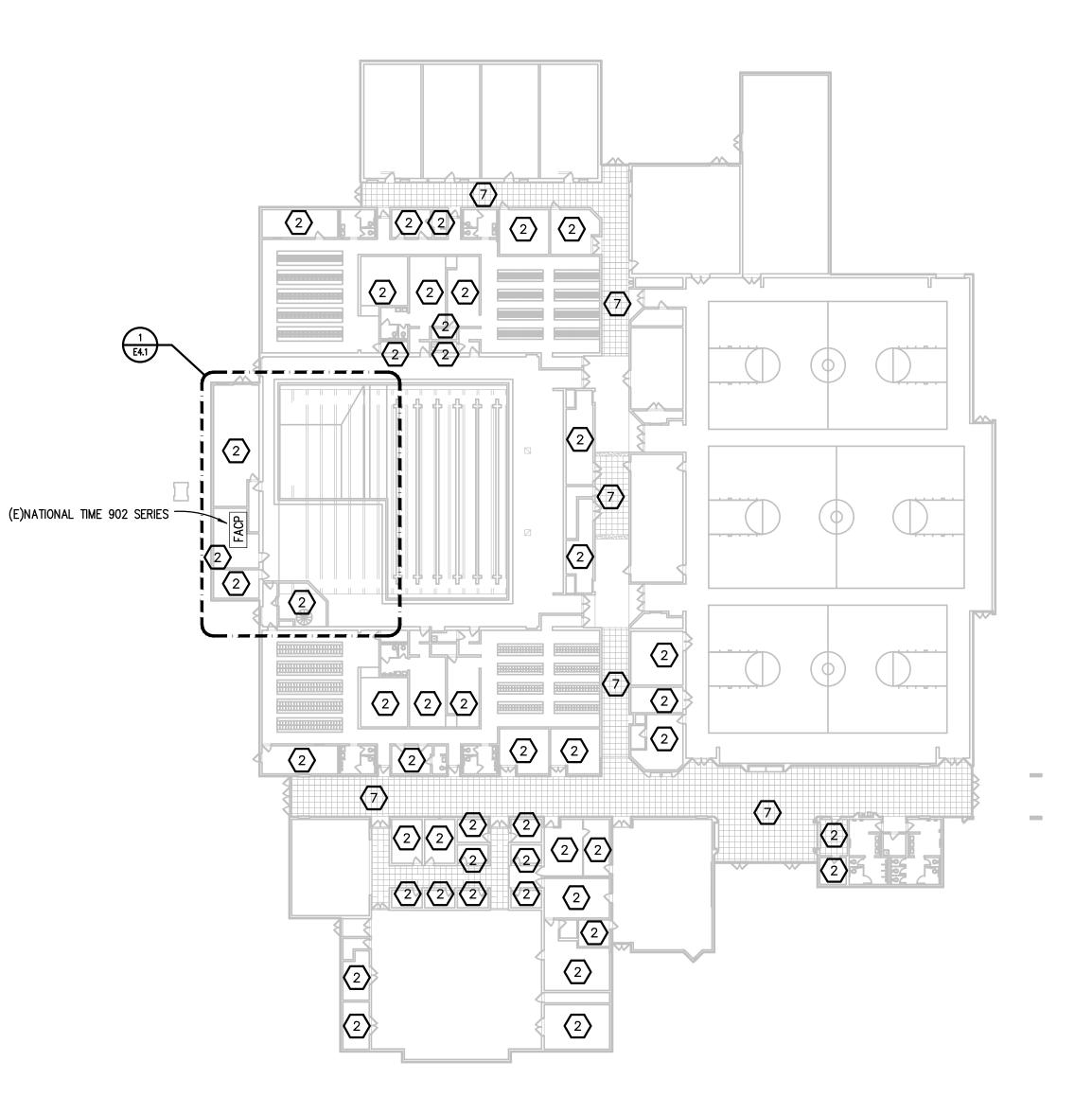
'X' INDICATES ACCEPTABLE SELECTION.
 REFER TO "CONDUCTORS AND CABLES" SPECIFICATION FOR APPLICATION LIMITATIONS OF AC/MC CABLE.





GENERAL NOTES:

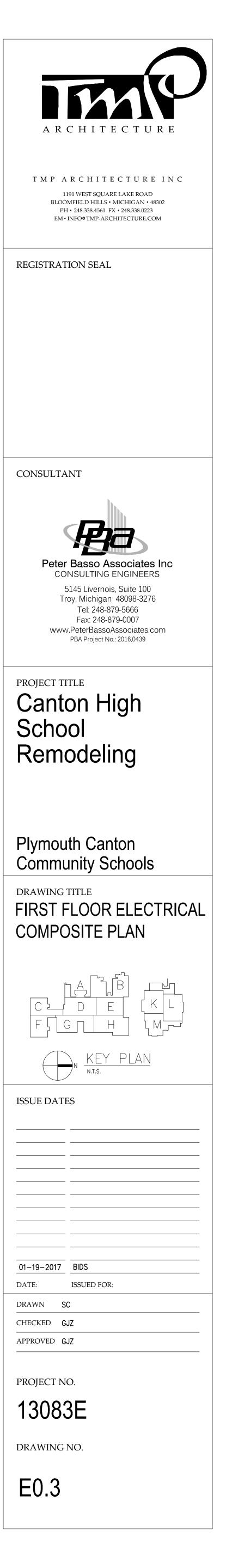
- 4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS. 5. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING"
- UNLESS OTHERWISE NOTED.

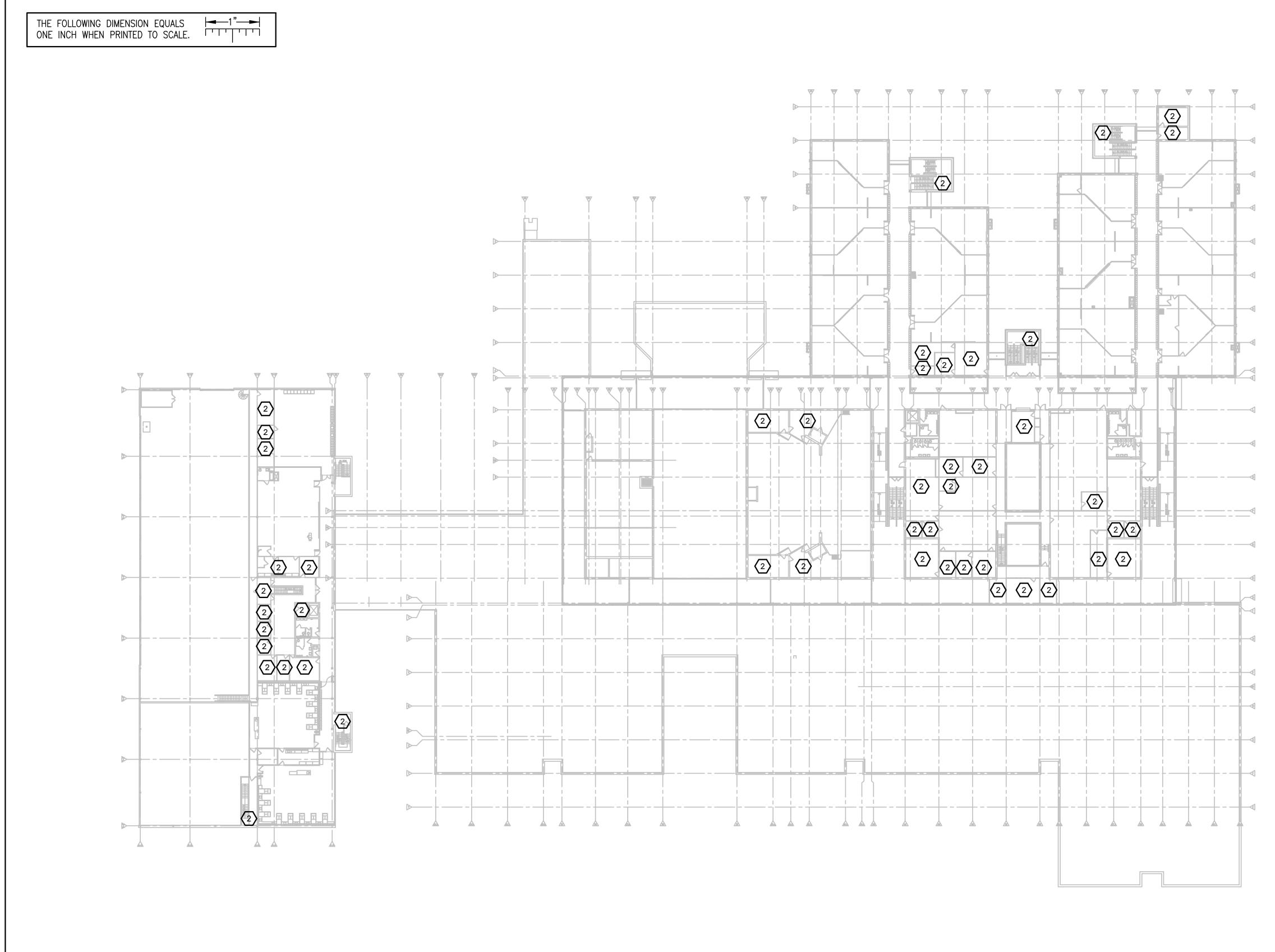


- 1. THESE DRAWNGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
- 2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- 3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- 6. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK. 7. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR
- MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.

EXAMPLE 1 CONSTRUCTION KEY NOTES:

- 1. CONNECT NEW LIGHTING TO EXISTING NORMAL AND EMERGENCY CIRCUITING. EXTEND CIRCUITING AS REQUIRED.
- 2. NEW 277V SWITCHING TO REPLACE EXISTING LOW VOLTAGE SWITCHING. CONNECT TO EXISTING CIRCUIT AND EXTEND CIRCUITING AS REQUIRED. SWITCHING MAYBE SINGLE, TWO LEVEL, 3 WAY ETC. NEW SWITCHING TYPE AND LOCATION SHALL MATCH EXISTING. EXISTING RECESSED BOXES SHALL BE REUSED. PROVIDE NEW STAINLESS STEEL COVER PLATES AS REQUIRED.
- 3. NEW MASTER LIGHTING CONTROLLER FOR HOUSE LIGHTS. PROVIDE 120V CIRCUIT FROM NEAREST AVAILABLE SOURCE. SEE LIGHTING CONTROLLER DETAIL ON E7 SERIES DRAWINGS.
- 4. PROVIDE CONTROL WIRING BETWEEN FIXTURES AND CONNECT TO NEW LIGHTING CONTROLLER. EXTEND CIRCUITING AND CONTROL WIRING AS REQUIRED. REFER TO LIGHTING CONTROLLER DETAIL ON E7 SERIES DRAWINGS.
- 5. LIGHTING PUSH BUTTON CONTROL. REUSE EXISTING RECESSED CONDUIT FROM OLD SWITCH LOCATION.
- 6. FOR NEW LIGHTING THE ELECTRICAL CONTRACTOR SHALL PATCH/REPAIR/PAINT CEILING AS REQUIRED.
- 7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR NEW CORRIDOR CEILINGS. PRIOR TO BIDS THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DEVICES IN CEILINGS TO BE REMOVED AND REINSTALLED IN NEW GRID. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: LIGHTING, EXIT LIGHTS, OCCUPANCY SENSORS, SPEAKERS, WI FI DEVICES, SECURITY DEVICES, ETC. THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF ALL DEVICES BACK IN SIMILAR LOCATIONS AND IN COMPLETE WORKING CONDITION.



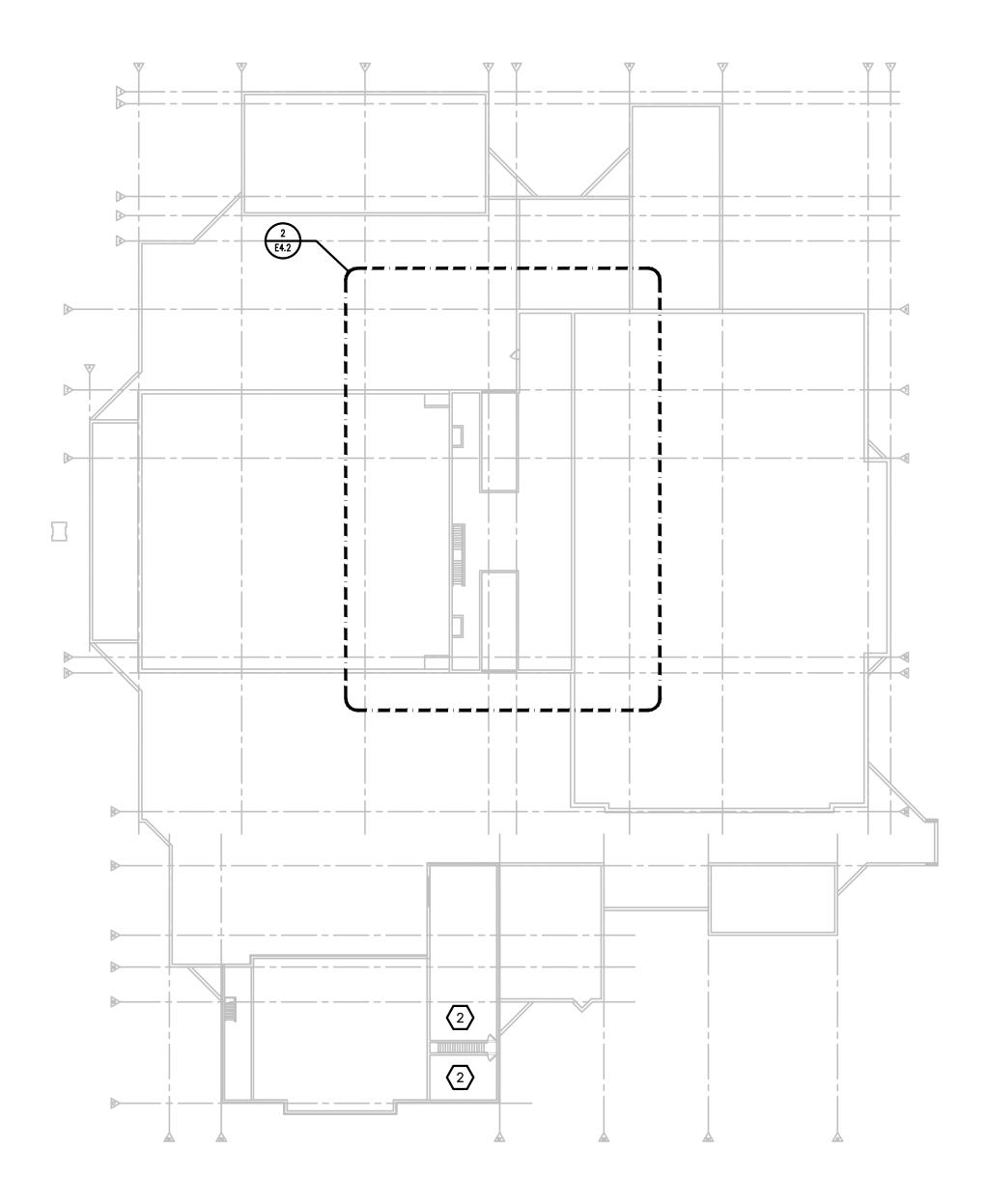




SECOND FLOOR ELECTRICAL COMPOSITE PLAN SCALE: 1/32" - 1' - 0"

- 1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.

- SYSTEMS.
- UNLESS OTHERWISE NOTED.
- MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.

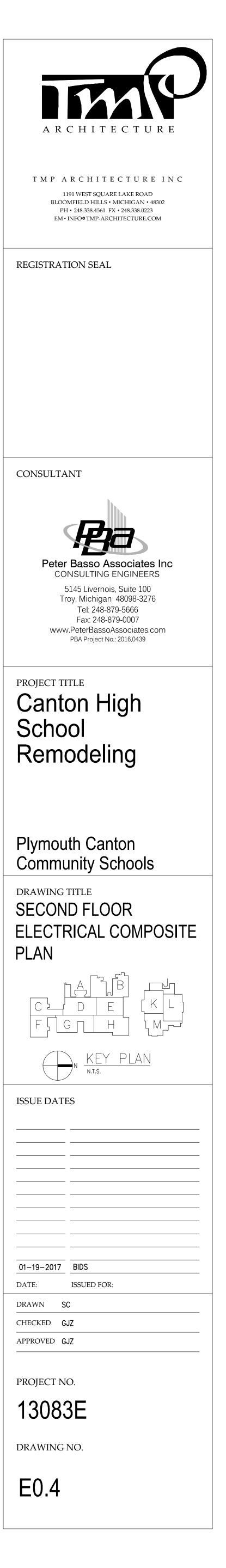


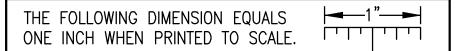
GENERAL NOTES:

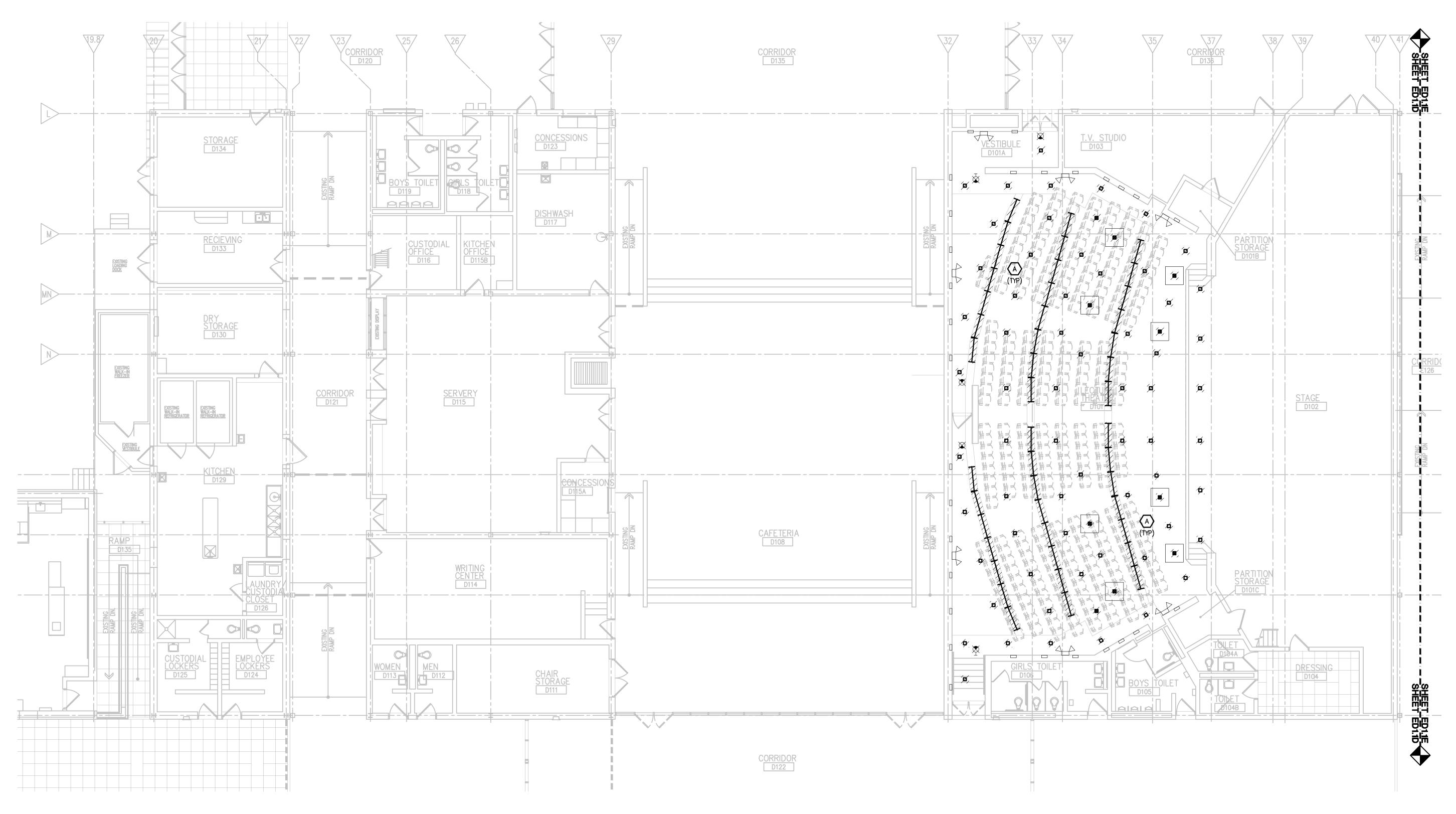
- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- 3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES. 4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL
- 5. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING"
- 6. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK. 7. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR

CONSTRUCTION KEY NOTES

- 1. CONNECT NEW LIGHTING TO EXISTING NORMAL AND EMERGENCY CIRCUITING. EXTEND CIRCUITING AS REQUIRED.
- 2. NEW 277V SWITCHING TO REPLACE EXISTING LOW VOLTAGE SWITCHING. CONNECT TO EXISTING CIRCUIT AND EXTEND CIRCUITING AS REQUIRED. SWITCHING MAYBE SINGLE, TWO LEVEL, 3 WAY ETC. NEW SWITCHING TYPE AND LOCATION SHALL MATCH EXISTING. EXISTING RECESSED BOXES SHALL BE REUSED. PROVIDE NEW STAINLESS STEEL COVER PLATES AS REQUIRED.
- 3. NEW MASTER LIGHTING CONTROLLER FOR HOUSE LIGHTS. PROVIDE 120V CIRCUIT FROM NEAREST AVAILABLE SOURCE. SEE LIGHTING CONTROLLER DETAIL ON E7
- SERIES DRAWINGS. 4. PROVIDE CONTROL WIRING BETWEEN FIXTURES AND CONNECT TO NEW LIGHTING
- CONTROLLER. EXTEND CIRCUITING AND CONTROL WIRING AS REQUIRED. REFER TO LIGHTING CONTROLLER DETAIL ON E7 SERIES DRAWINGS. 5. LIGHTING PUSH BUTTON CONTROL. REUSE EXISTING RECESSED CONDUIT FROM OLD
- SWITCH LOCATION.
- 6. FOR NEW LIGHTING THE ELECTRICAL CONTRACTOR SHALL PATCH/REPAIR/PAINT CEILING AS REQUIRED.
- 7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR NEW CORRIDOR CEILINGS. PRIOR TO BIDS THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DEVICES IN CEILINGS TO BE REMOVED AND REINSTALLED IN NEW GRID. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: LIGHTING, EXIT LIGHTS, OCCUPANCY SENSORS, SPEAKERS, WI FI DEVICES, SECURITY DEVICES, ETC. THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF ALL DEVICES BACK IN SIMILAR LOCATIONS AND IN COMPLETE WORKING CONDITION.







FIRST FLOOR ELECTRICAL DEMOLITION PLAN - ZONE D SCALE: 1/8" - 1" - 0"

GENERAL NOTES:

- TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.
- DEVICES SHOWN.

- BID. ALL MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, AND/OR RECYCLING OF FLUORESCENT LAMPS.
- ARE REMOVED BUT EXISTING WALLS REMAIN INTACT.
- PANELBOARD DIRECTORY.
- ALTERATION.
- 13. COORDINATE ANY SHUT DOWN OF EXISTING SERVICES AND EQUIPMENT THAT ARE

1. VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.

2. EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER

3. REMOVE LIGHTING FIXTURES AND ELECTRICAL DEVICES AS INDICATED ON PLAN WITH CROSS HATCHING. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE

4. COORDINATE WITH NEW WORK PLANS, ONE LINE DIAGRAMS AND RISER DIAGRAMS FOR EXTENT OF DEMOLITION WORK.

5. PROVIDE PROPER SUPPORT FOR EXISTING TO REMAIN CONDUITS AND BOXES WHERE EXISTING SUPPORT IS TO BE REMOVED. RE-ROUTE BRANCH CIRCUIT CONDUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.

6. REMOVE ALL<u>CONDUIT</u> AND WIRE BACK TO THE SOURCE OR NEAREST UPSTREAM DEVICE REMAINING IN SERVICE.

7. MAINTAIN ELECTRICAL SERVICE TO ALL LIGHTING FIXTURES, DEVICES AND EQUIPMENT THAT ARE TO REMAIN. EXTEND CONDUIT AND WIRE AS REQUIRED WHERE DEMOLITION WORK AFFECTS ELECTRICAL SERVICE TO DOWNSTREAM LOADS THAT ARE TO REMAIN. 8. DISPOSE OF ALL MATERIALS OFF SITE AND INCLUDE ALL COSTS FOR DISPOSAL IN

STATE, AND LOCAL REGULATIONS, INCLUDING TCLP TESTING, PROPER DISPOSAL 9. PROVIDE BLANK STAINLESS STEEL COVER PLATES WHERE SWITCHES AND DEVICES

10. RING OUT AND TAG ALL CIRCUITS AFFECTED BY THIS ALTERATION AT BOTH ENDS. MARK ALL UNUSED CIRCUIT BREAKERS "SPARE". PROVIDE NEW TYPE WRITTEN

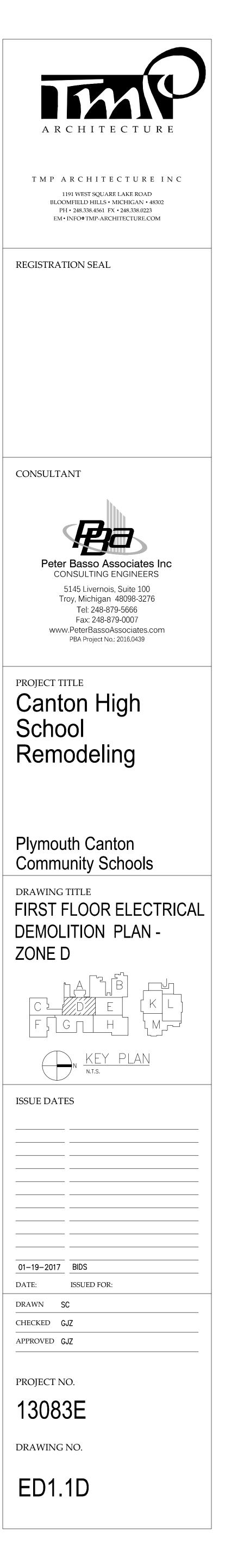
11. PROVIDE UPDATED TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS

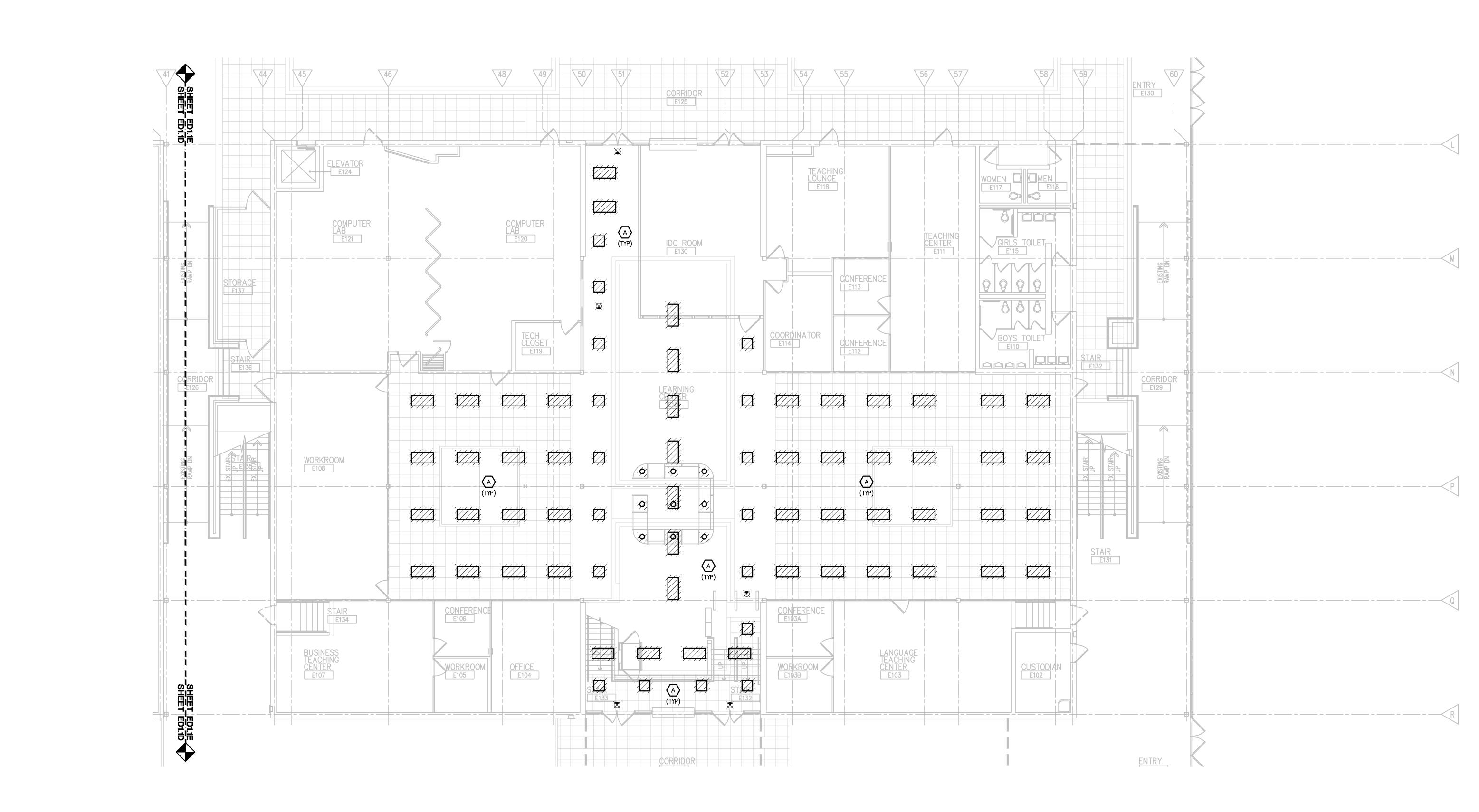
12. VERIFY ALL UNDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING ANY FLOOR SLAB.

REMAINING IN USE WITH THE OWNER'S REPRESENTATIVE. WHERE EXISTING BUILDING SERVICE IS REQUIRED TO BE SHUT DOWN, INCLUDE ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS INCLUDE ALL COSTS FOR PROVIDING TEMPORARY POWER WHERE SHUT DOWNS MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS. COORDINATE ELECTRICAL SHUT DOWNS WITH THE OWNER 72 HOURS PRIOR TO SHUT DOWN.

DEMOLITION NOTES:

- A. EXISTING CIRCUITING, NORMAL AND EMERGENCY SHALL REMAIN FOR REUSE.
- B. DISCONNECT POWER TO MECHANICAL EQUIPMENT. EXISTING CIRCUITING SHALL REMAIN FOR REUSE.
- C. REMOVE DUCT DETECTOR, AND REPLACE WITH NEW.





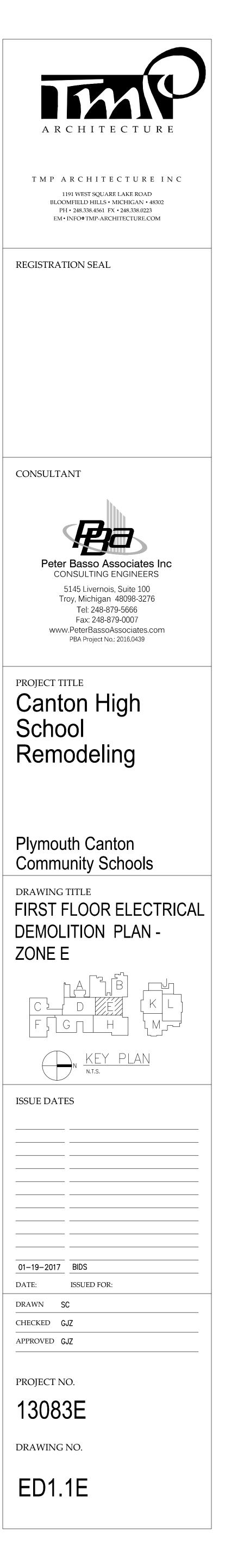
FIRST FLOOR ELECTRICAL DEMOLITION PLAN - ZONE E SCALE: 1/8" - 1' - 0"

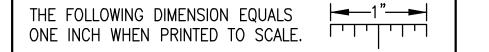
GENERAL NOTES:

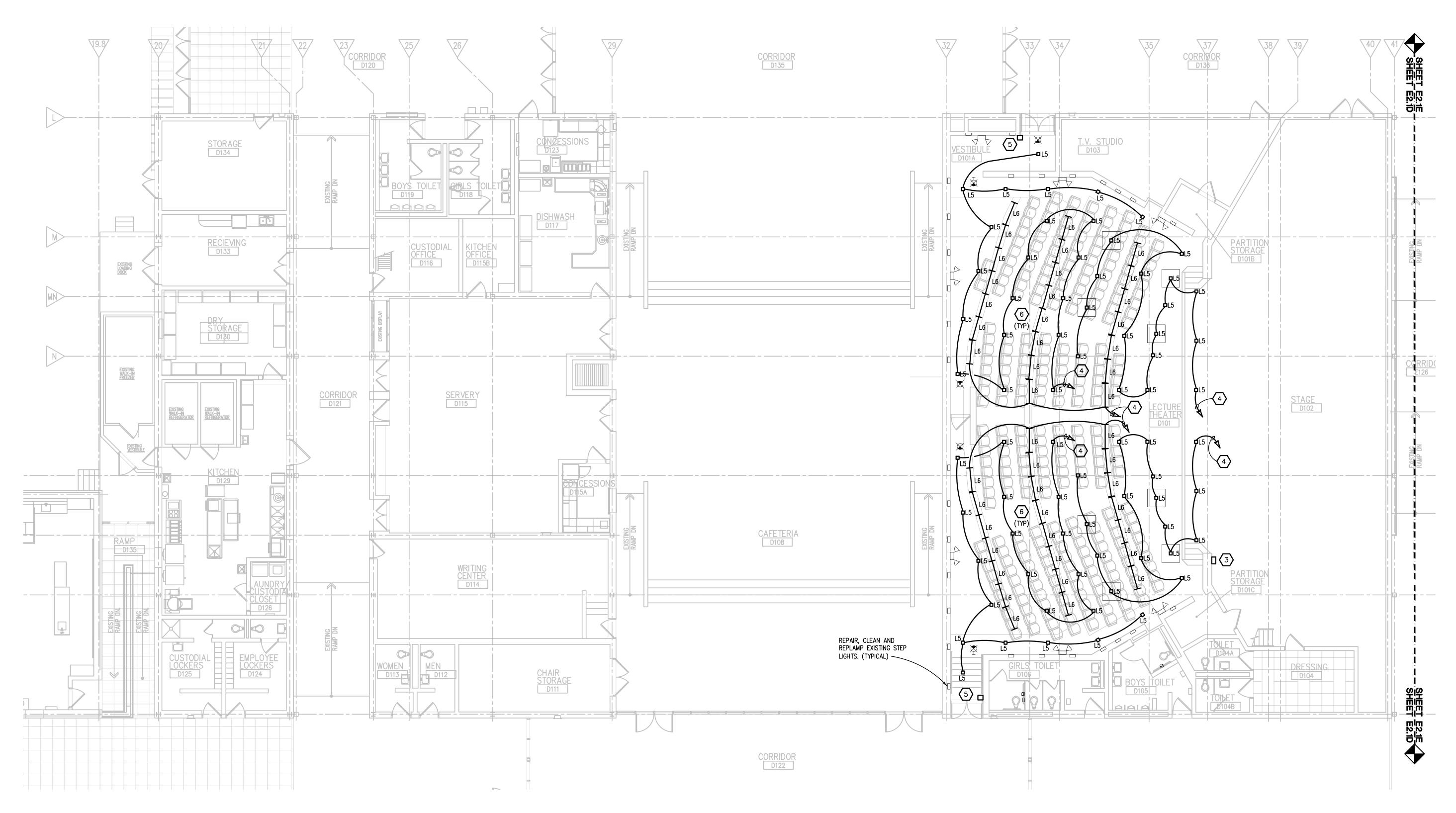
- 1. VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.
- 2. EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.
- 3. REMOVE LIGHTING FIXTURES AND ELECTRICAL DEVICES AS INDICATED ON PLAN WITH CROSS HATCHING. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE DEVICES SHOWN.
- 4. COORDINATE WITH NEW WORK PLANS, ONE LINE DIAGRAMS AND RISER DIAGRAMS FOR EXTENT OF DEMOLITION WORK.
- 5. PROVIDE PROPER SUPPORT FOR EXISTING TO REMAIN CONDUITS AND BOXES WHERE EXISTING SUPPORT IS TO BE REMOVED. RE-ROUTE BRANCH CIRCUIT CONDUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.
- 6. REMOVE ALL <u>CONDUIT</u> AND WIRE BACK TO THE SOURCE OR NEAREST UPSTREAM DEVICE REMAINING IN SERVICE.
- 7. MAINTAIN ELECTRICAL SERVICE TO ALL LIGHTING FIXTURES, DEVICES AND EQUIPMENT THAT ARE TO REMAIN. EXTEND CONDUIT AND WIRE AS REQUIRED WHERE DEMOLITION WORK AFFECTS ELECTRICAL SERVICE TO DOWNSTREAM LOADS THAT ARE TO REMAIN.
- 8. DISPOSE OF ALL MATERIALS OFF SITE AND INCLUDE ALL COSTS FOR DISPOSAL IN BID. ALL MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING TCLP TESTING, PROPER DISPOSAL AND/OR RECYCLING OF FLUORESCENT LAMPS.
- 9. PROVIDE BLANK STAINLESS STEEL COVER PLATES WHERE SWITCHES AND DEVICES ARE REMOVED BUT EXISTING WALLS REMAIN INTACT.
- 10. RING OUT AND TAG ALL CIRCUITS AFFECTED BY THIS ALTERATION AT BOTH ENDS. MARK ALL UNUSED CIRCUIT BREAKERS "SPARE". PROVIDE NEW TYPE WRITTEN PANELBOARD DIRECTORY.
- 11. PROVIDE UPDATED TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS ALTERATION.
- 12. VERIFY ALL UNDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING ANY FLOOR SLAB.
- 13. COORDINATE ANY SHUT DOWN OF EXISTING SERVICES AND EQUIPMENT THAT ARE REMAINING IN USE WITH THE OWNER'S REPRESENTATIVE. WHERE EXISTING BUILDING SERVICE IS REQUIRED TO BE SHUT DOWN, INCLUDE ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS INCLUDE ALL COSTS FOR PROVIDING TEMPORARY POWER WHERE SHUT DOWNS MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS. COORDINATE ELECTRICAL SHUT DOWNS WITH THE OWNER 72 HOURS PRIOR TO SHUT DOWN.

DEMOLITION NOTES:

- A. EXISTING CIRCUITING, NORMAL AND EMERGENCY SHALL REMAIN FOR REUSE.
- B. DISCONNECT POWER TO MECHANICAL EQUIPMENT. EXISTING CIRCUITING SHALL REMAIN FOR REUSE.
- C. REMOVE DUCT DETECTOR, AND REPLACE WITH NEW.







FIRST FLOOR LIGHTING PLAN - ZONE D SCALE: 1/8" - 1" - 0"

GENERAL NOTES:

- 1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
- 2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.

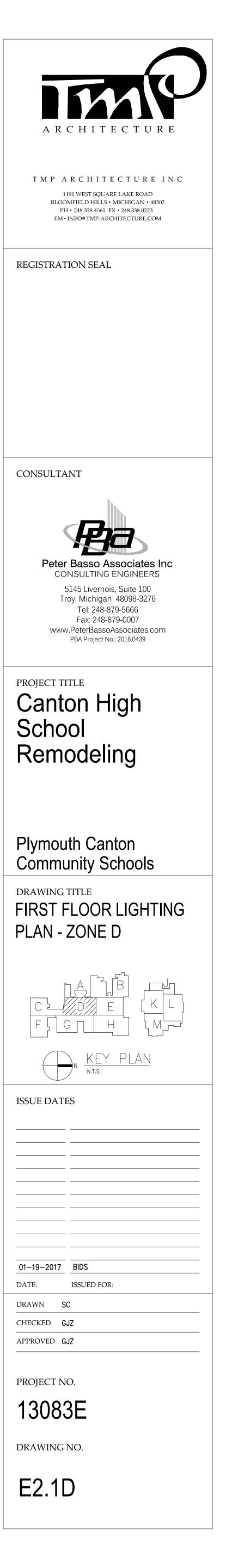
CIRCUIT OF HIGHER AMPACITY.

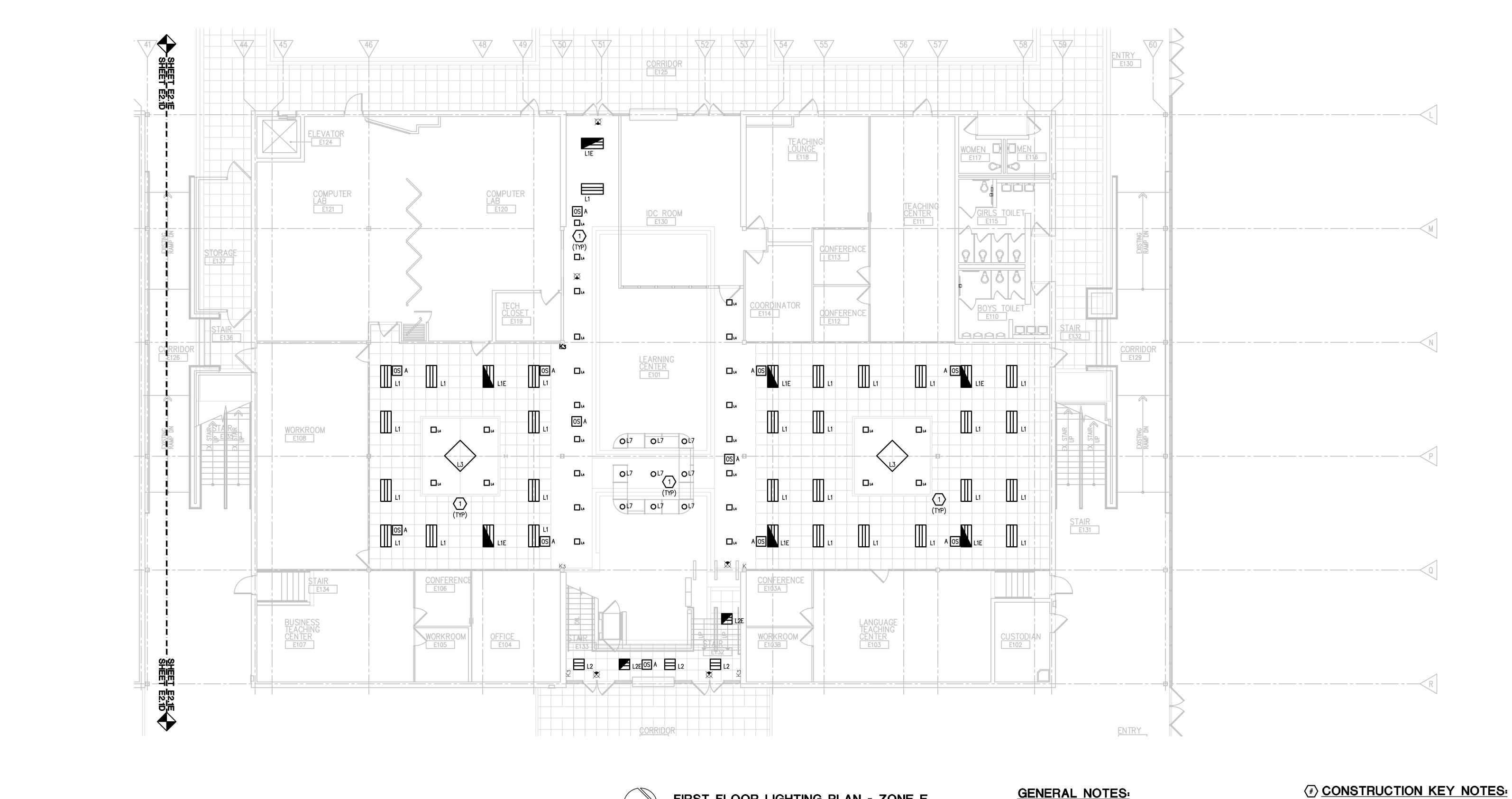
SYSTEMS.

- 5. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- 6. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
- 7. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE
- 4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL

EXAMPLE 1 CONSTRUCTION KEY NOTES:

- 1. CONNECT NEW LIGHTING TO EXISTING NORMAL AND EMERGENCY CIRCUITING. EXTEND CIRCUITING AS REQUIRED.
- 2. NEW 277V SWITCHING TO REPLACE EXISTING LOW VOLTAGE SWITCHING. CONNECT TO EXISTING CIRCUIT AND EXTEND CIRCUITING AS REQUIRED. SWITCHING MAYBE SINGLE, TWO LEVEL, 3 WAY ETC. NEW SWITCHING TYPE AND LOCATION SHALL MATCH EXISTING. EXISTING RECESSED BOXES SHALL BE REUSED. PROVIDE NEW STAINLESS STEEL COVER PLATES AS REQUIRED.
- NEW MASTER LIGHTING CONTROLLER FOR HOUSE LIGHTS. PROVIDE 120V CIRCUIT FROM NEAREST AVAILABLE SOURCE. SEE LIGHTING CONTROLLER DETAIL ON E7 SERIES DRAWINGS.
- 4. PROVIDE CONTROL WIRING BETWEEN FIXTURES AND CONNECT TO NEW LIGHTING CONTROLLER. EXTEND CIRCUITING AND CONTROL WIRING AS REQUIRED. REFER TO LIGHTING CONTROLLER DETAIL ON E7 SERIES DRAWINGS.
- . LIGHTING PUSH BUTTON CONTROL. REUSE EXISTING RECESSED CONDUIT FROM OLD SWITCH LOCATION.
- 6. FOR NEW LIGHTING THE ELECTRICAL CONTRACTOR SHALL PATCH/REPAIR/PAINT CEILING AS REQUIRED.
- 7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR NEW CORRIDOR CEILINGS. PRIOR TO BIDS THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DEVICES IN CEILINGS TO BE REMOVED AND REINSTALLED IN NEW GRID. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: LIGHTING, EXIT LIGHTS, OCCUPANCY SENSORS, SPEAKERS, WI FI DEVICES, SECURITY DEVICES, ETC. THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF ALL DEVICES BACK IN SIMILAR LOCATIONS AND IN COMPLETE WORKING CONDITION.





|⊲__1"__**⊳**|

THE FOLLOWING DIMENSION EQUALS

ONE INCH WHEN PRINTED TO SCALE.



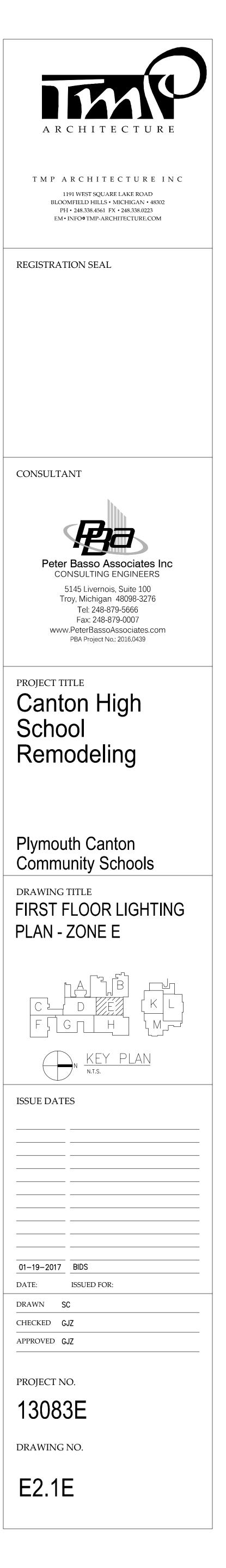
FIRST FLOOR LIGHTING PLAN - ZONE E SCALE: 1/8" - 1" - 0"

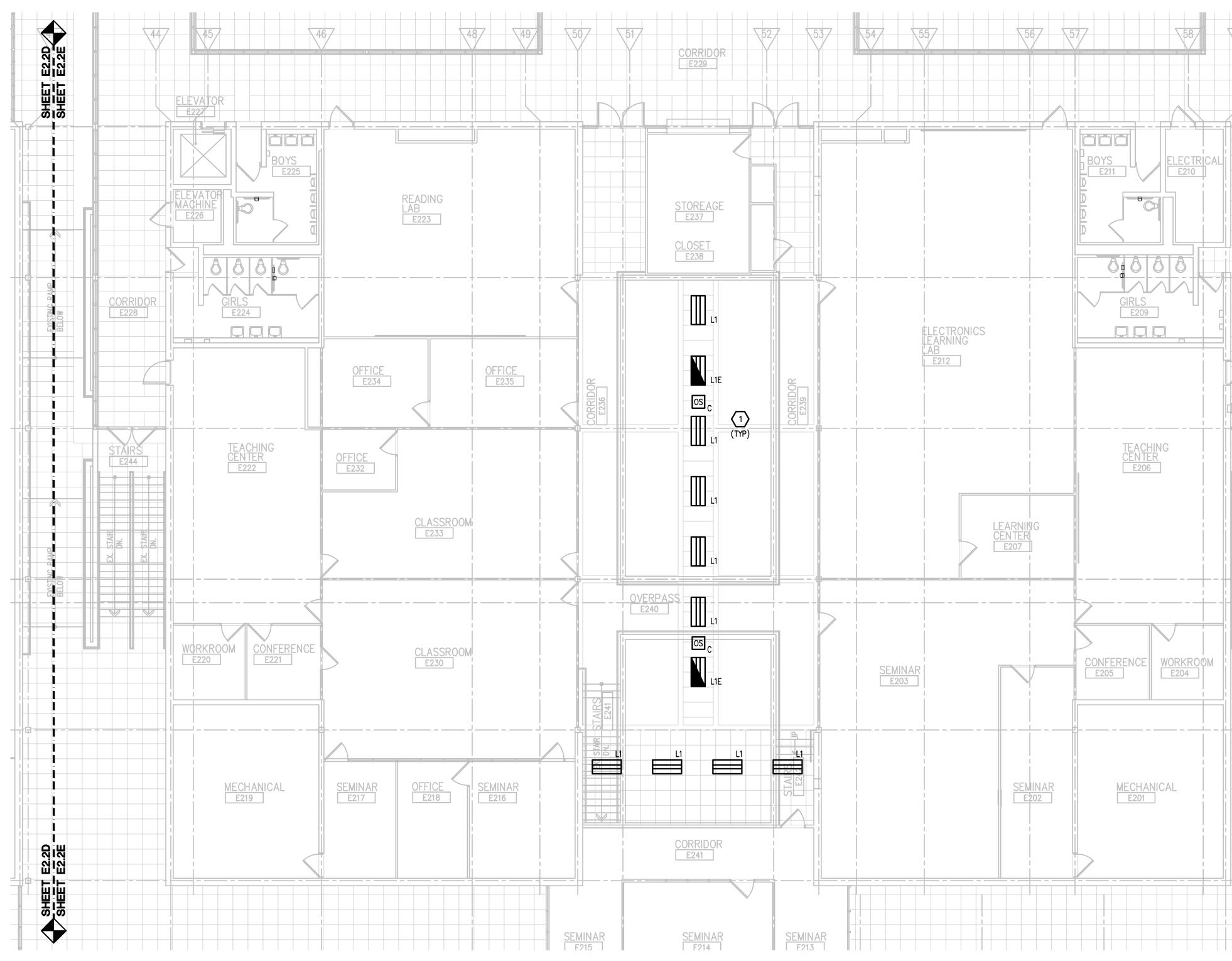
- 1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS. 2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND

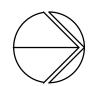
- SYSTEMS.
- UNLESS OTHERWISE NOTED.
- 7. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY
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CIRCUIT OF HIGHER AMPACITY.

- ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- 4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL
- 5. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING"
- 6. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
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- 3. NEW MASTER LIGHTING CONTROLLER FOR HOUSE LIGHTS. PROVIDE 120V CIRCUIT FROM NEAREST AVAILABLE SOURCE. SEE LIGHTING CONTROLLER DETAIL ON E7 SERIES DRAWINGS.
- 4. PROVIDE CONTROL WIRING BETWEEN FIXTURES AND CONNECT TO NEW LIGHTING CONTROLLER. EXTEND CIRCUITING AND CONTROL WIRING AS REQUIRED. REFER TO LIGHTING CONTROLLER DETAIL ON E7 SERIES DRAWINGS.
- 5. LIGHTING PUSH BUTTON CONTROL. REUSE EXISTING RECESSED CONDUIT FROM OLD SWITCH LOCATION.
- 6. FOR NEW LIGHTING THE ELECTRICAL CONTRACTOR SHALL PATCH/REPAIR/PAINT CEILING AS REQUIRED.
- 7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR NEW CORRIDOR CEILINGS. PRIOR TO BIDS THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DEVICES IN CEILINGS TO BE REMOVED AND REINSTALLED IN NEW GRID. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: LIGHTING, EXIT LIGHTS, OCCUPANCY SENSORS, SPEAKERS, WI FI DEVICES, SECURITY DEVICES, ETC. THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF ALL DEVICES BACK IN SIMILAR LOCATIONS AND IN COMPLETE WORKING CONDITION.







SECOND FLOOR LIGHTING PLAN - ZONE E SCALE: 1/8" - 1" - 0"

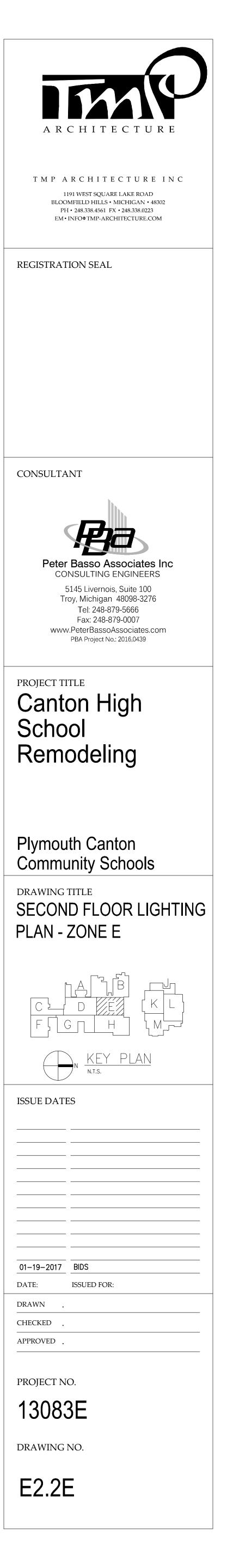
GENERAL NOTES:

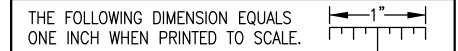
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- 2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- 3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- 4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- 5. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- 6. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
- 7. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.

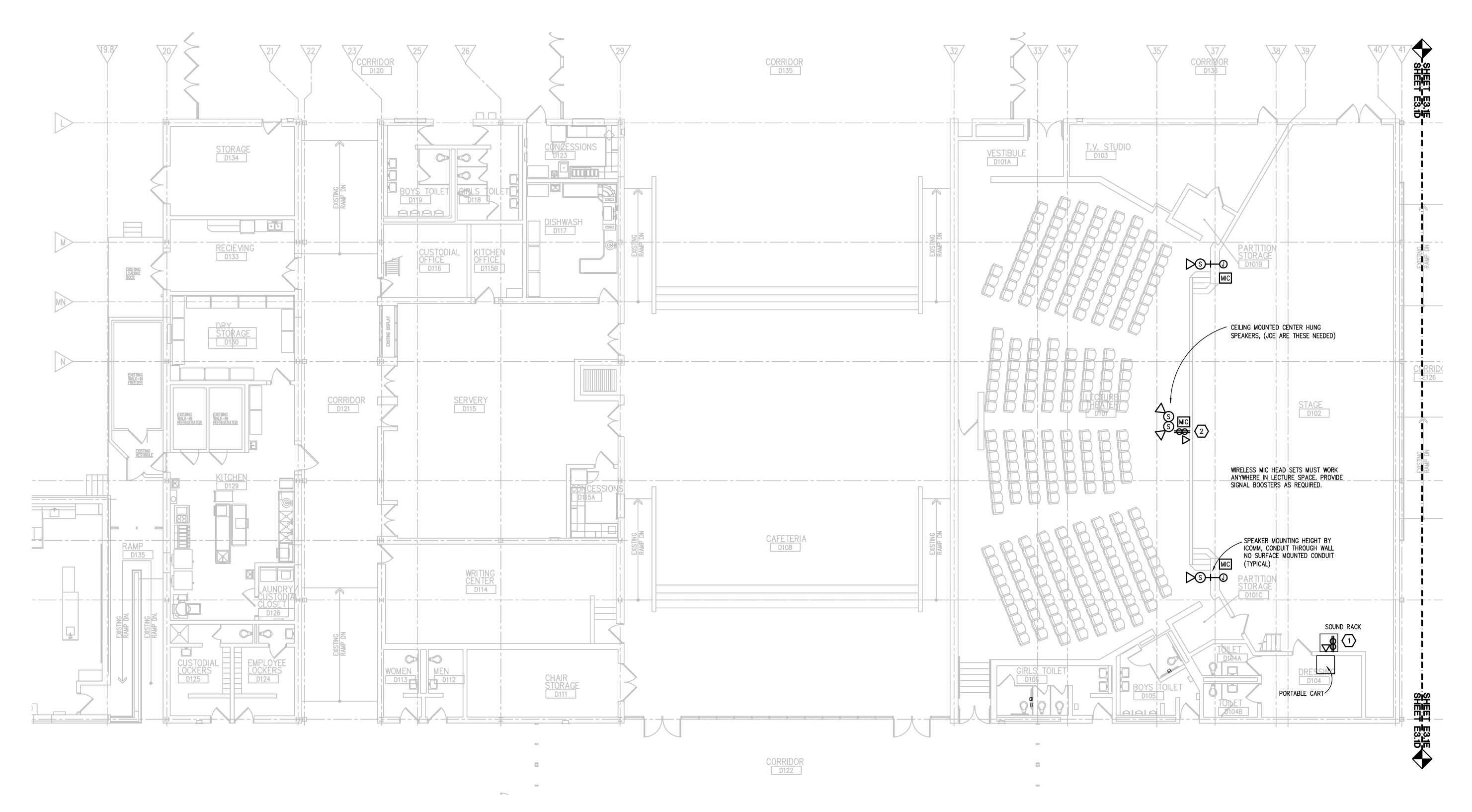
			 	L
	EXISTING RAMP			M
STAIRS E231			 	Z
EX. STAIR EV. STAIR EV. STAIR EV. STAIR EV. STAIR			 	P
			 	Q
			 	R

CONSTRUCTION KEY NOTES:

- 1. CONNECT NEW LIGHTING TO EXISTING NORMAL AND EMERGENCY CIRCUITING. EXTEND CIRCUITING AS REQUIRED.
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- 5. LIGHTING PUSH BUTTON CONTROL. REUSE EXISTING RECESSED CONDUIT FROM OLD SWITCH LOCATION.
- 6. FOR NEW LIGHTING THE ELECTRICAL CONTRACTOR SHALL PATCH/REPAIR/PAINT CEILING AS REQUIRED.
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FIRST FLOOR POWER PLAN - ZONE D SCALE: 1/8" • 1' - 0"

GENERAL NOTES:

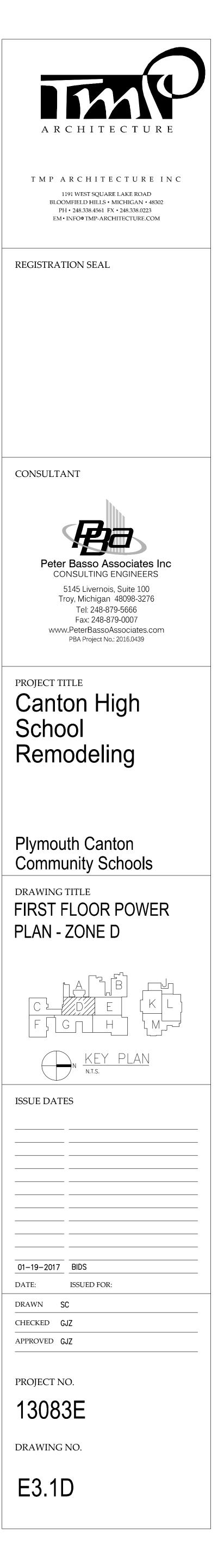
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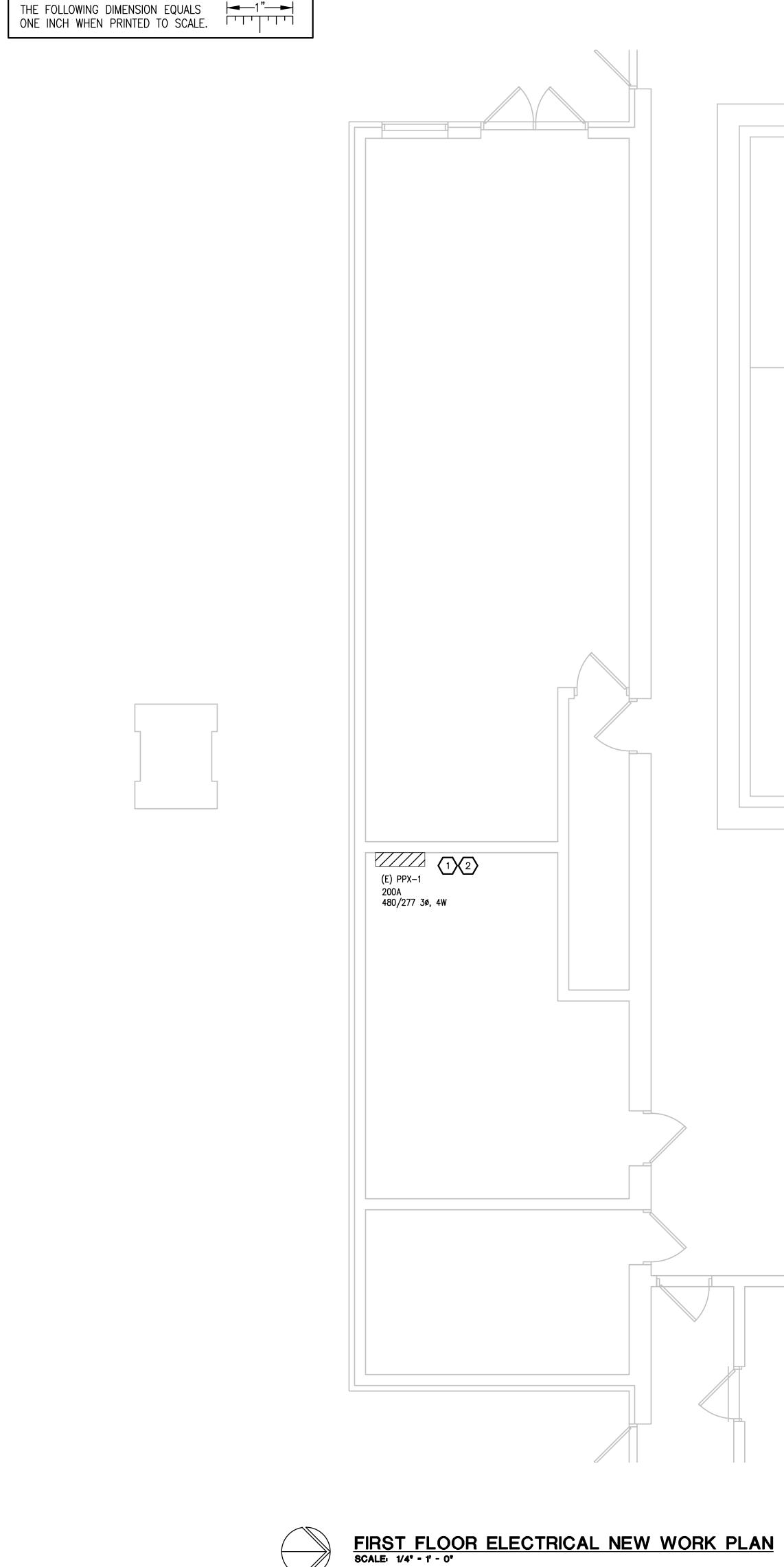
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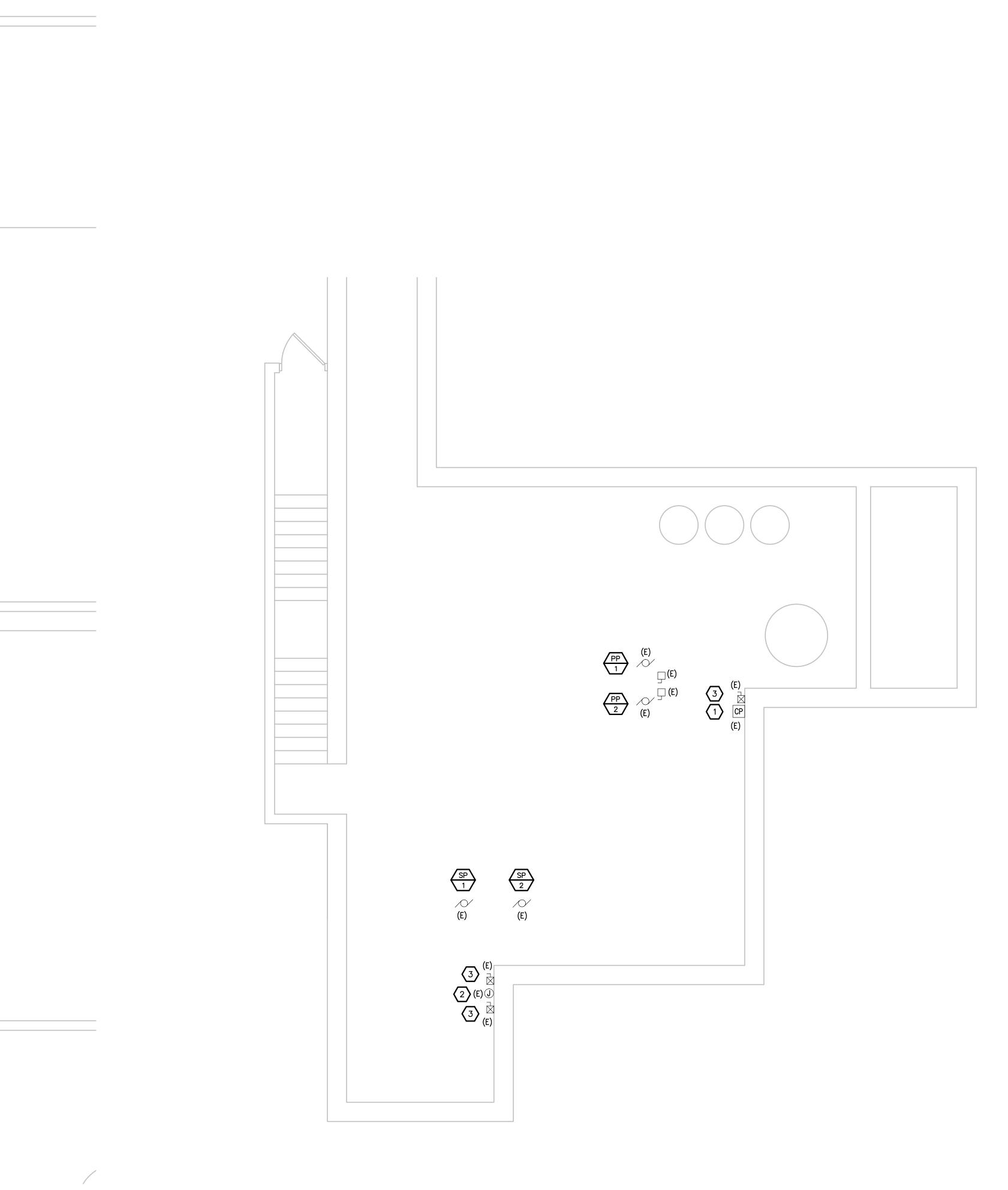
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EXAMPLE 1 CONSTRUCTION KEY NOTES:

- 1. CONNECT TO NEAREST AVAILABLE 120V DEDICATED CIRCUIT.
- 2. PROVIDE SURFACE MOLD WIREMOLD AS REQUIRED.









BASEMENT ELECTRICAL NEW WORK PLAN SCALE: 1/4" - 1' - 0"

GENERAL NOTES:

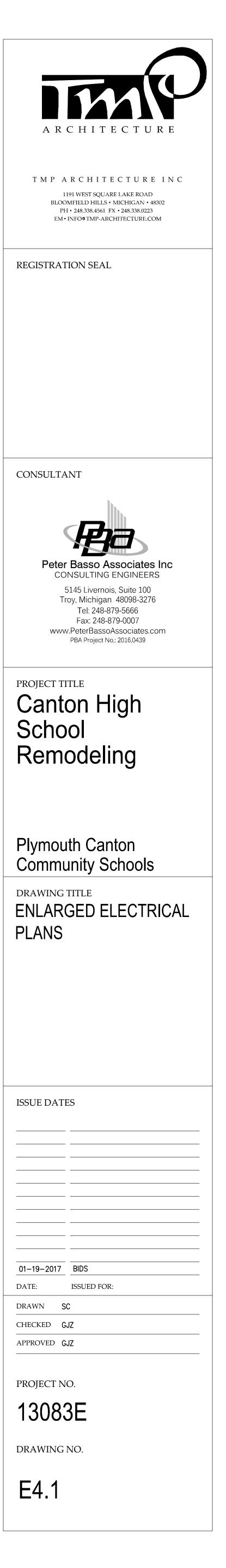
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- 4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- 5. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
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EXAMPLE 7 CONSTRUCTION NOTES:

- 1. DISCONNECT AND REMOVE EXISTING POOL PUMPS (PP) BRANCH CIRCUIT. PROVIDE NEW BRANCH CIRCUIT FROM PPX-1 TO SERVE EXISTING POOL PUMPS. REPLACE EXISTING 60 AMP 3 POLE SPARE CIRCUIT BREAKER IN PPX-1 WITH 50 AMP 3 POLE CIRCUIT BEAKER TO SERVE POOL PUMPS.
- 2. DISCONNECT AND REMOVE EXISTING SUMP PUMPS (SP) BRANCH CIRCUIT. PROVIDE NEW BRANCH CIRCUIT FROM PPX-1 TO SERVE EXISTING SUMP PUMPS. REPLACE EXISTING 60 AMP 3 POLE SPARE CIRCUIT BREAKER IN PPX-1 WITH 40 AMP 3 POLE CIRCUIT BEAKER TO SERVE SUMP PUMPS.
- 3. PROVIDE TIME DELAY RELAY TO EXISTING MOTOR STARTING CIRCUIT. REFER TO DETAIL ON SHEET E0.2.

<u>PPX-1 CONNECTED LOAD</u>

EXISTING METERED 21 KW (1.25)	26.2 KW
ADDED LOAD	
15 HP POOL PUMP	17.4 KW
7 1/2 HP SUMP PUMP	9.1 KW
7 1/2 HP SUMP PUMP	9.1 KW
TOTAL	61.8 KW



THE FOLLOWING DIMENSION EQUALS			
			ACU
		U/4	B
			(E)F
		ENLARGED Scale: 1/8" - 1" - 0"	ELECTF
	GENERAL NOTE 1. VISIT THE SITE PRIOR TO SUBMISS AND THE EXTENT OF DEMOLITION	sion of bid to examine the e	Xisting conditic
	2. EXAMINE THE DRAWINGS OF OTHE REQUIRED BY OTHER TRADES. P AND/OR RELOCATION REQUIRED T TRADES, WHETHER OR NOT SPECI	R TRADES AND BE FAMILIAR WI ERFORM ALL INCIDENTAL ELECTR O FACILITATE THE DEMOLITION V	ICAL DEMOLITION
	3. REMOVE LIGHTING FIXTURES AND CROSS HATCHING. DEMOLITION S DEVICES SHOWN.	ELECTRICAL DEVICES AS INDICAT	
	 COORDINATE WITH NEW WORK PLA EXTENT OF DEMOLITION WORK. PROVIDE PROPER SUPPORT FOR E 	EXISTING TO REMAIN CONDUITS A	and boxes wher
	EXISTING SUPPORT IS TO BE REM RELOCATE JUNCTION BOXES AS R EQUIPMENT AND SYSTEMS IN CEIL 6. REMOVE ALL <u>CONDUIT</u> AND WIRE	REQUIRED TO FACILITATE INSTALL LING SPACES.	ATION OF NEW
	DEVICE REMAINING IN SERVICE. 7. MAINTAIN ELECTRICAL SERVICE TO THAT ARE TO REMAIN. EXTEND (WORK AFFECTS ELECTRICAL SERV) ALL LIGHTING FIXTURES, DEVIC CONDUIT AND WIRE AS REQUIRED	es and equipme) where demoli
	8. DISPOSE OF ALL MATERIALS OFF BID. ALL MATERIALS SHALL BE I STATE, AND LOCAL REGULATIONS, AND/OR RECYCLING OF FLUORESC	SITE AND INCLUDE ALL COSTS F DISPOSED OF IN ACCORDANCE W , INCLUDING TCLP TESTING, PROI	For Disposal in 1Th all federai
	9. PROVIDE BLANK STAINLESS STEEL ARE REMOVED BUT EXISTING WAL 10. RING OUT AND TAG ALL CIRCUITS	L COVER PLATES WHERE SWITCHI LS REMAIN INTACT. 5 AFFECTED BY THIS ALTERATION	I AT BOTH ENDS
	MARK ALL UNUSED CIRCUIT BREA PANELBOARD DIRECTORY. 11. PROVIDE UPDATED TYPED-IN DIRE ALTERATION.	KERS "SPARE". PROVIDE NEW T	YPE WRITTEN
	12. VERIFY ALL UNDERGROUND AND I OR PENETRATING ANY FLOOR SLA 13. COORDINATE ANY SHUT DOWN OF	AB.	
	13. COORDINATE ANY SHUT DOWN OF REMAINING IN USE WITH THE OWN SERVICE IS REQUIRED TO BE SHU COSTS TO PERFORM THIS WORK I	IER'S REPRESENTATIVE. WHERE E	Existing Building Ted overtime

CES AND EQUIPMENT THAT ARE ATIVE. WHERE EXISTING BUILDING ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS INCLUDE ALL COSTS FOR PROVIDING TEMPORARY POWER WHERE SHUT DOWNS MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS. COORDINATE ELECTRICAL SHUT DOWNS WITH THE OWNER 72 HOURS PRIOR TO SHUT DOWN.



DEMOLITION NOTES:

XAMINE THE EXISTING CONDITIONS A. EXISTING CIRCUITING, NORMAL AND EMERGENCY SHALL REMAIN FOR REUSE.

B. DISCONNECT POWER TO MECHANICAL EQUIPMENT. EXISTING CIRCUITING SHALL REMAIN E FAMILIAR WITH THE DEMOLITION FOR REUSE.

C. REMOVE DUCT DETECTOR, AND REPLACE WITH NEW.

CES AS INDICATED ON PLAN WITH

AGRAMS AND RISER DIAGRAMS FOR

IAIN CONDUITS AND BOXES WHERE BRANCH CIRCUIT CONDUITS AND

XTURES, DEVICES AND EQUIPMENT E AS REQUIRED WHERE DEMOLITION AM LOADS THAT ARE TO REMAIN.

ACCORDANCE WITH ALL FEDERAL,

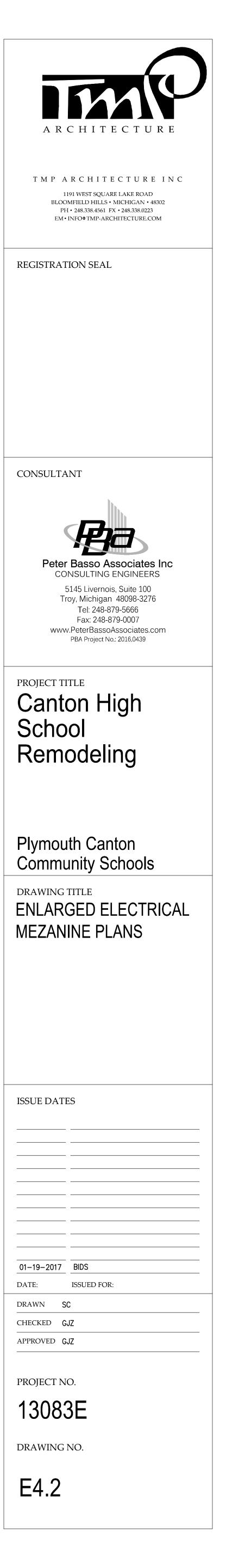
LOCATIONS PRIOR TO SAW-CUTTING

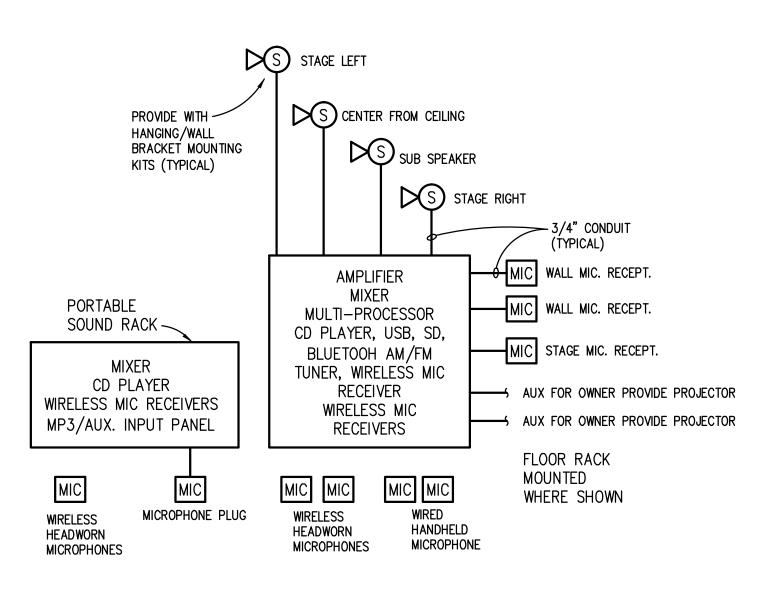
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- 6. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
- DUCT SMOKE DETECTOR SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. COORDINATE REQUIRED QUANTITIES AND MOUNTING LOCATIONS WITH THE DUCTWORK CONTRACTOR TO MEET CODE (PROVIDE 4 DUCT SMOKE DETECTORS PER AHU/RTU FOR BID PURPOSES, QUANTITIES WILL BE ADJUSTED AFTER COMPLETION OF WORK). COORDINATE INSTALLATION WITH THE MECHANICAL CONTRACTOR SO THAT UPONDETECTION OF SMOKE, THE SUPPLY/RETURN FAN WILL SHUT DOWN. ELECTRICAL CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM. CONTROL OF AIR HANDLING EQUIPMENT IS VIA THE FIRE ALARM CONTROL
- PANEL. PROVIDE ALL REQUIRED FIRE ALARM CONTROL MODULES AND RELAYS TO INTERFACE WITH SUPPLY FAN AND ASSOCIATED RETURN FAN (OR EXHAUST FAN). COORDINATE WORK WITH THE TEMPERATURE CONTROL CONTRACTOR AND FIRE ALARM VENDER. PROVIDE ALL CONTROL MODULES, RELAYS, ETC FOR A COMPLETE SYSTEM.
- CONNECT SERVICE RECEPTACLE TO NEAREST AVAILABLE 120V CIRCUIT. NEW MECHANICAL EQUIPMENT PROVIDED BY MECHANICAL CONTRACTOR. CIRCUIT TO
- EXISTING FEEDER VIA NEW FUSED DISCONNECT SWITCH. SWITCH SHALL BE 30A FUSED AT 15A. EXTEND CIRCUITING AS REQUIRED. 4. NEW MECHANICAL EQUIPMENT PROVIDED BY MECHANICAL CONTRACTOR. CIRCUIT TO
- EXISTING FEEDER VIA NEW FUSED DISCONNECT SWITCH. SWITCH SHALL BE 30A FUSED AT 20A. EXTEND CIRCUITING AS REQUIRED.
- 7. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR 5. NEW MECHANICAL EQUIPMENT PROVIDED BY MECHANICAL CONTRACTOR. CIRCUIT TO MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. EXISTING FEEDER VIA NEW FUSED DISCONNECT SWITCH. SWITCH SHALL BE NEMA3R 60A FUSED AT 40A. EXTEND CIRCUITING AS REQUIRED.





LECTURE THEATRE SOUND SYSTEM DETAIL NO SCALE

<u>NOTE:</u> PROVIDE ALL CABLING PER MANUFACTURERS RECOMMENDATIONS. EQUIPMENT TO BE FURNISHED AND INSTALLED BY ICOMM (AS SUB-CONTRACTOR TO THE E.C.). PROVIDE ALL MISC WIRE/CABLING CONNECTORS AND BRACKETS FOR A COMPLETE SYSTEM. TEST AND TUNE SYSTEM. PROVIDE OWNER TRAINING. ENTIRE SYSTEM SHALL BE WARRANTIED FOR FOR 1 YEARS FROM DATE OF ACCEPTANCE.

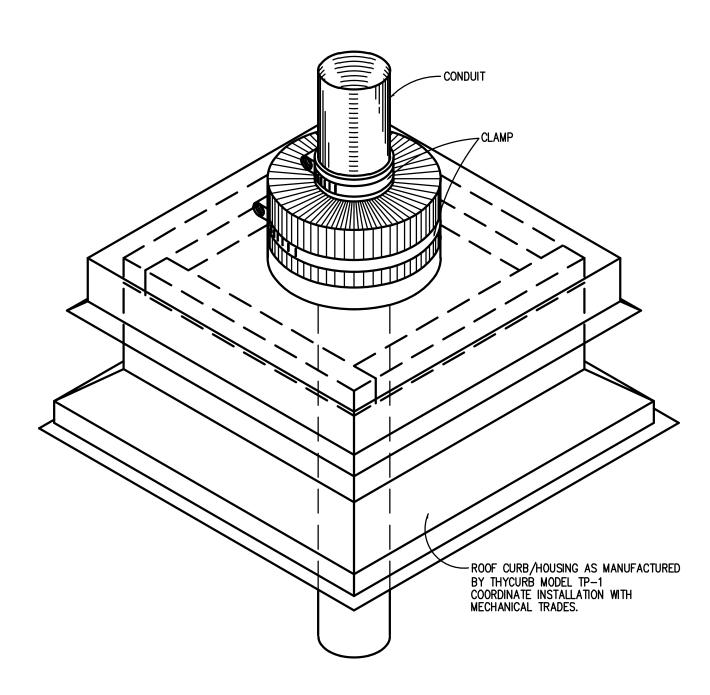
EACH SPEAKER SHALL HAVE ITS OWN SEPARATE HOME RUN BACK TO AMP FOR STEREO.

<u>EQUIPMENT LIST</u>

- (MISC. EQUIPMENT) 3 ISP SM-2110 SPEAKERS WITH A NEW ISP MASTER CONTROL PROCESSOR
- 1 ISP SB112 SUBWOOFER WITH MOUNTING BREAKETS 1 CEILING "B" BRACKET KIT.
- 3 WALL MOUNTED MICROPHONE OUTLETS WITH MICROPHONE JACKS
- 2 SHURE SM58S MICROPHONE WITH 25' CABLE
- (FLOOR RACK) 2 CROWN CDI-1000 AMPLIFIERS
- 1 SHURE SCM800 MIXER
- 1 DBX 220i DRIVERACK FEEDBACK SUPPRESSOR MULTI-PROCESSOR 1 MIDDLE ALANTIC RACK (ERK-252AXS SLIDE OUT) SIZE TO HOUSE EQUIPMENT NEED WITH TWO RACK SPACE LOCKABLE DRAWER, PLUG STRIP AND FRONT DOOR. 1 BLUE TOOTH
- 2 AUX FOR EXISTING PROJECTOR
- 2 USB JACKS 2 WIRELESS MIC'S (MICS MUST BE USED THROUGH OUT THE ENTIRE SPACE, PROVIDE BOOSTER SIGNAL DEVICES AS REQUIRED)

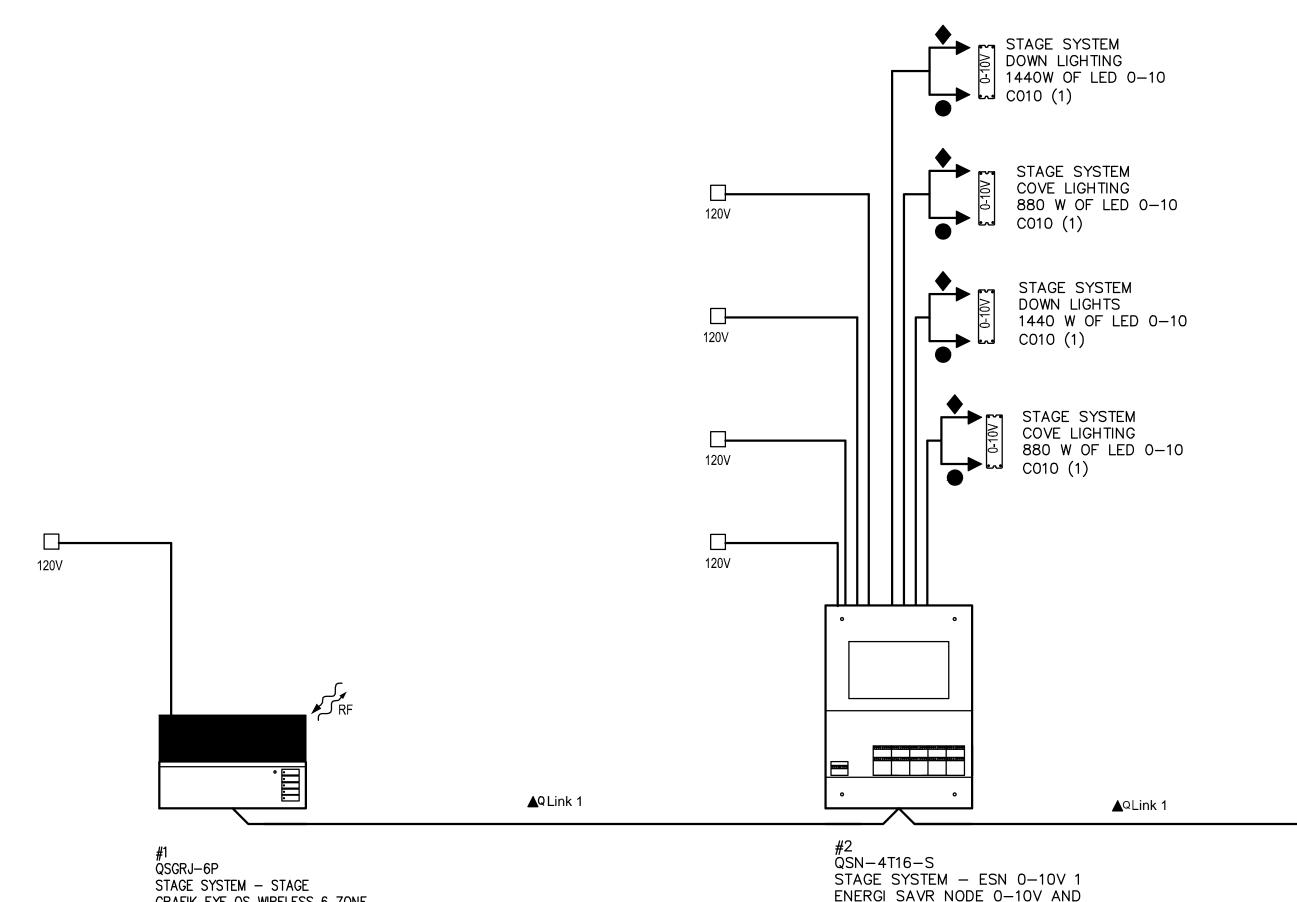
- (PORTABLE RACK) 1 MACKIE 1604VLZ4 MIXING BOARD 1 DENNON DN-C615 CD PLAYER 2 AKG WMS470 WIRELESS HANDHELD MICROPHONE AND ALL COMPONENTS OR EQUAL 1 AKG WMS470 WIRELESS PRESENTER HEADWORN MIRCOPHONE AND ALL COMPONENTS OR EQUAL
- 1 PROCO IRACK MP3/AUX. INPUT PANEL

1 LOWELL PORTABLE RACK (SIZED TO HOUSE EQUIPMENT NEEDED) WITH CASTERS, TWO RACK SPACE LOCKABLE DRAWER AND PLUG STRIP, SYSTEM SHALL BE CAPABLE OF PROVIDING MUSIC FROM CD PLAYER, TUNER, USB AND BLUE TOOTH AND MAKE ANNOUNCEMENTS FROM WIRELESS MICROPHONES AND WIRED MICROPHONES BY PLUGGING INTO ANY MICROPHONE JACK

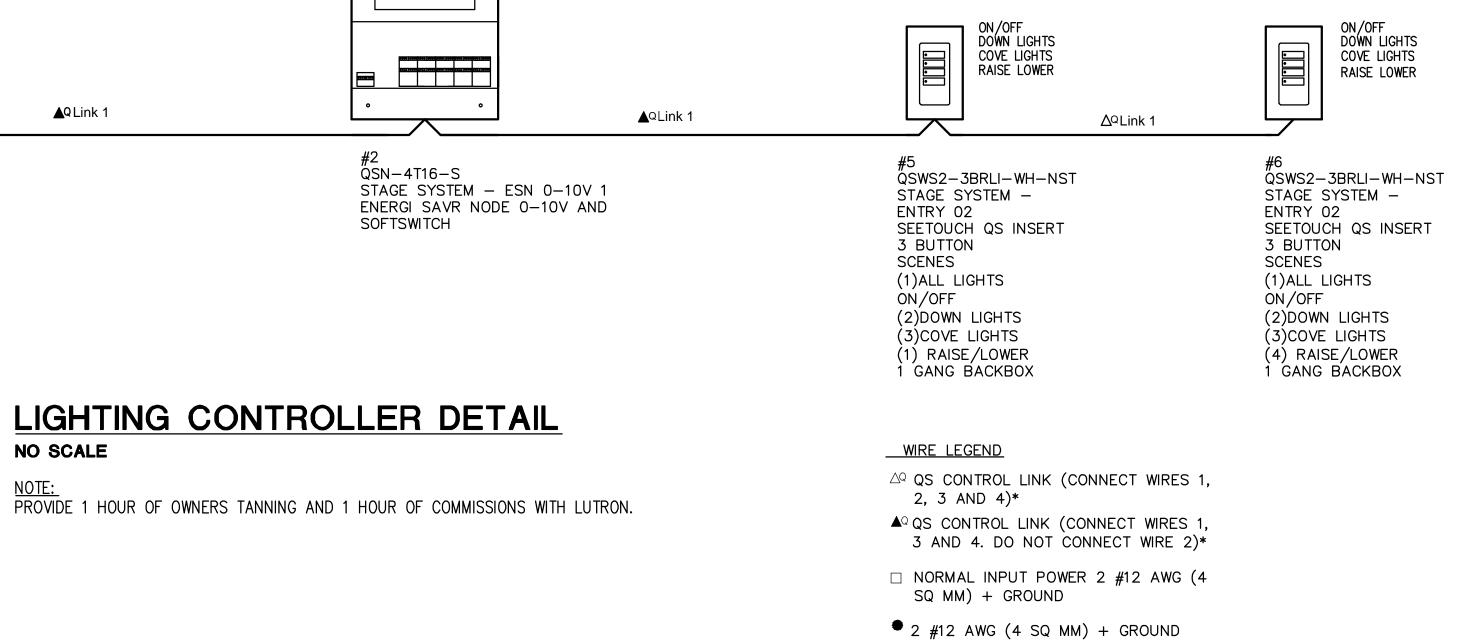


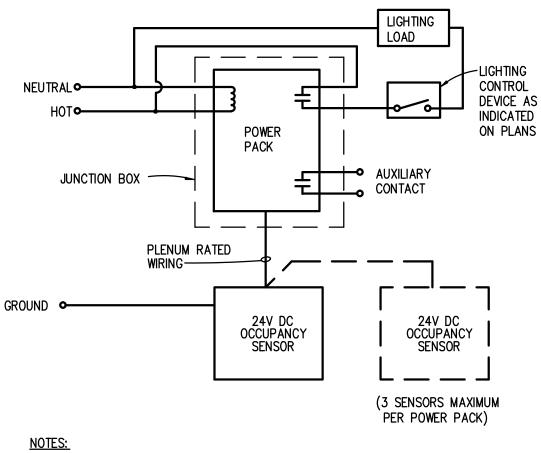
PROVIDE NEW CONDUIT ROOF PENETRATION DETAIL NO SCALE NOTES:

- 1. ELECTRICAL CONTRACTOR SHALL SUBCONTRACT BUILDING ROOF CONTRACTOR FOR INSTALLATION OF FLASHING.
- 2. REUSE OF EXISTING CURB HOUSING WILL NOT BE ACCEPTABLE.



GRAFIK EYE QS WIRELESS 6 ZONE SCENES 1-4 + OFF 4 GANG BACKBOX QSGFP-WH-NST

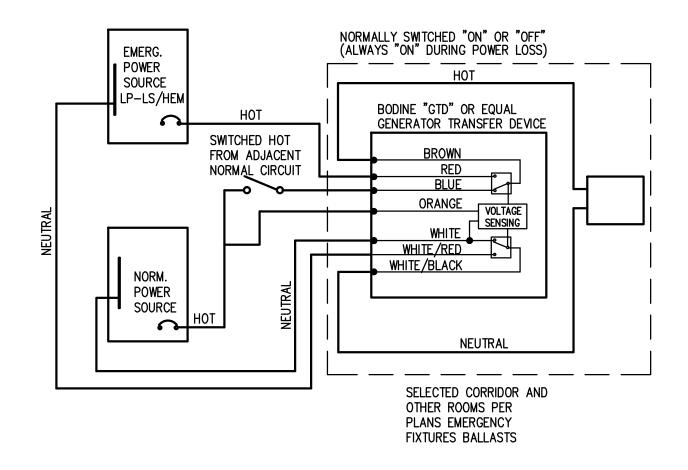




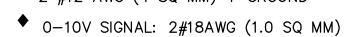
1. REFER TO SPECIFICATIONS FOR ACCEPTED MANUFACTURERS.

- 2. PROVIDE POWER PACKS AND SLAVE PACKS AS REQUIRED FOR SWITCHING AS INDICATED ON PLAN. REVISE DETAIL AS REQUIRED BY MANUFACTURER.
- 3. MOUNTING LOCATION PER MANUFACTURER'S RECOMMENDATION.
- 4. ADJUST SENSITIVITY LEVELS PER THE OWNER REQUIREMENTS.
- 5. PROVIDE FACTORY SUPPORT FOR AIMING/ADJUSTING OF SENSORS.
- 6. PLACE CEILING MOUNTED OCCUPANCY SENSORS IN CENTER OF A FULL CEILING TILE, WHERE APPLICABLE. 7. SENSOR ADJUSTMENT: BEFORE MAKING ADJUSTMENTS, MAKE SURE ROOM FURNITURE IS
- INSTALLED, LIGHTING CIRCUITS ARE TURNED ON, AND THE HVAC SYSTEMS ARE IN THE ON POSITION. VAV SYSTEMS SHOULD BE SET TO THEIR HIGHEST AIRFLOW. SET THE LOGIC CONFIGURATION DIP SWITCHES TO "EITHER". EITHER REQUIRES MOTION DETECTION BY ONLY ONE TECHNOLOGY. SET THE TIME DELAY PER OWNERS DIRECTION.

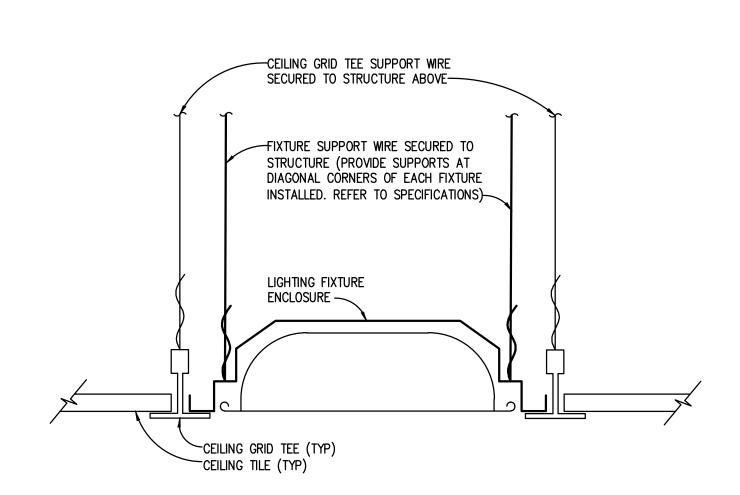
OCCUPANCY SENSOR WIRING DIAGRAM NO SCALE



EMERGENCY LIGHTING (FOR SWITCHED FIXTURES) NO SCALE



TRANSFER CIRCUIT WIRING DIAGRAM



RECESSED LIGHTING FIXTURE INSTALLATION DETAIL NO SCALE

