

PROJECT: DAWSON SPRINGS INDEPENDENT SCHOOLS
 DAWSON SPRINGS HIGH SCHOOL
 FREEZER/COOLER EXPANSION

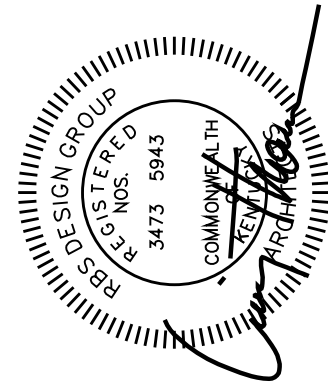
OWNER: DAWSON SPRINGS INDEPENDENT SCHOOLS
 118 E. ARCADIA AVENUE
 DAWSON SPRINGS, KENTUCKY 42408

Board Members

- Vicki Allen - Chairman
- Wes Ausebaugh
- Kent Dillingham
- Carol Niswonger
- Meredith Hyde

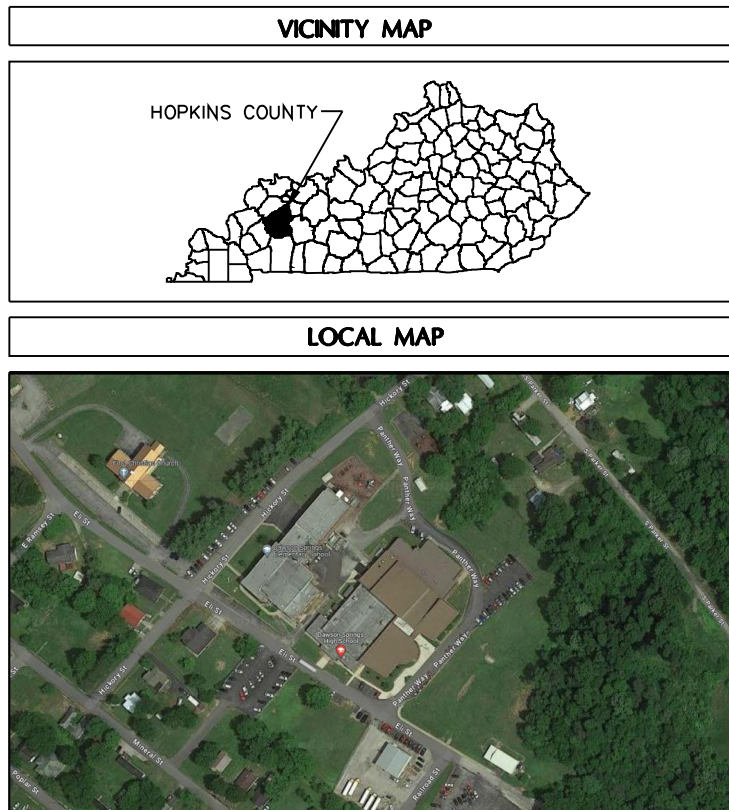
ARCHITECT: R.B.S. DESIGN GROUP, P.S.C.
 UNION STATION COMPLEX
 1035 FREDERICA STREET, SUITE 140
 OWENSBORO, KENTUCKY 42301

CONSULTING ENGINEER: CMTA CONSULTING ENGINEERS
 220 LEXINGTON GREEN CIRCLE, SUITE 600
 LEXINGTON, KENTUCKY 40503
 859-253-0892 (F)859-231-8357



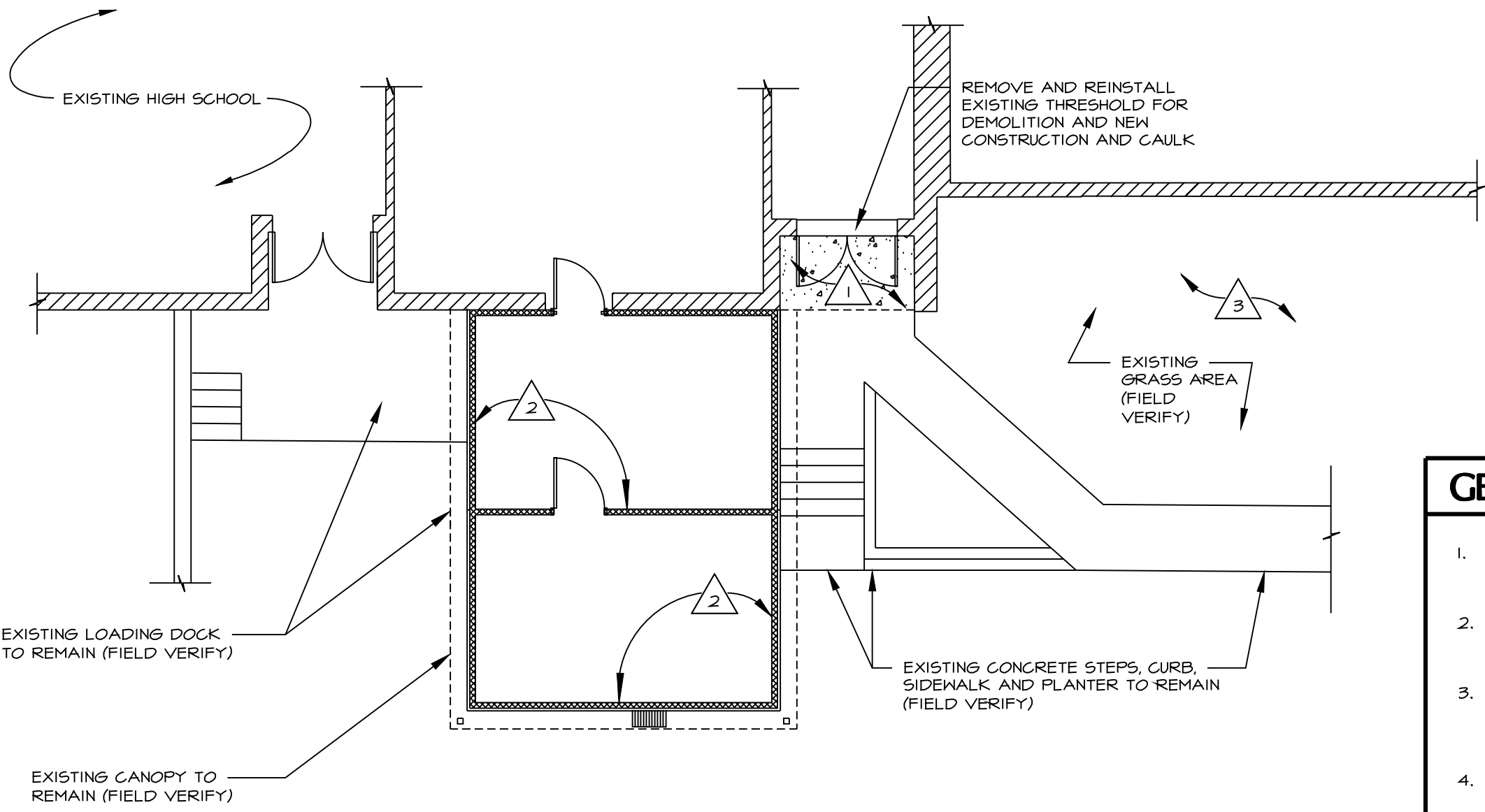
MATERIALS & GRAPHIC SYMBOLS		
EARTHWORKS		
EARTH/ORIGINAL SOIL	POROUS FILL/GRAVEL	ROCK
CONCRETE		
CONCRETE	SAND/MORTAR/PLASTER/CUT STONE	
MASONRY		
C.M.U. BLOCK	BRICK	FIRE BRICK
STONE		
STONE	MARBLE	
METAL		
STEEL/OTHER METALS		
WOOD		
FINISH WOOD	WOOD BLOCKING	ROUGH WOOD
PLYWOOD		
GLASS		
GLASS (PLAIN)	GLASS BLOCK	
INSULATION		
BATT/BLANKET INSULATION	RIGID INSULATION	SPRAY/FOAM INSUL.
FINISHES		
ACOUSTICAL TILE	METAL LATH & PLASTER	
CARPET PAD	GYP. BOARD/CONCRETE (PLAN)	TERRAZZO
PARTITION INDICATIONS		
WOOD STUD	METAL STUD	
BRICK ELEVATION	CERAMIC TILE	CONCRETE/PLASTER
GLASS ELEVATION	SHEET METAL	SHINGLES/SIDING
SYMBOLS		
NEW CONTOUR	EXISTING CONTOUR	ELEVATION CONTROL POINT
ROOM NUMBER	DOOR NUMBER	WINDOW TYPE
COLUMN REFERENCE GRIDS	SECTION/ELEVATION	DETAIL
REVISIONS		

ABBREVIATIONS		
A.F.F. - above finish floor	DBL. - double	INSUL. - insulated panel
ACOUS. - acoustical	DN. - down	PNL. - panel
ADJ. - adjustable	DS. - downspout	INSUL. - insulation
A.C. - air conditioner	DRN. - drain	INT. - interior
A.H.U. - air handling unit	DWG. - drawing	I.P. - iron pipe
ALUM. - aluminum	D.F. - drinking fountain	JT. - joint
A.B. - anchor bolt	EA. - each	JST. - joint
APPROX. - approximate	E.W. - each way	KN. - knockdown
A.E.C. - Architect/Engineer	ARCH. - architectural	ARCH. - architectural
ARCH. - architectural/Architect	ELEC. - electrical	SCHED. - schedule
A.D. - area drain	E.C. - electrical closet	LAM. - laminated
AVG. - average	ELEV. - elevation	LAY. - lath
B.C. - base cabinet	ELEV. - elevator	L.H. - left hand
BSMT. - basement	EQ. - equal	LI. - live load
BEAM	EQUIP. - equipment	LONG. - longitudinal
BRG. - bearing	EXH. - exhaust	LVR. - louver
B.M. - bench mark	EXIST. - existing	M.H. - manhole
BLK. - block	EXP. - expansion	MFR. - manufacturer
BLKG. - blocking	E.I. - expansion joint	M.B. - marker board
BD. - board	EXT. - exterior	M.O. - masonry opening
BOT. - bottom	FIN. - finish	MATL. - material
B.O.F. - bottom of footing	FIN. FL. - finish floor	MAX. - maximum
B.T.U. - British thermal unit	F.F.E. - finish floor elevation	MECH. - mechanical
BLDG. - building	FIN. GRD. - finish grade	M.C. - medicine cabinet
B.U.R. - built-up roofing	FR.D. - fire damper	M.T. - metal
B.N. - bull nose	F.E. - fire extinguisher	M.T. - metal threshold
B.B. - bulletin board	F.E.&C. - fire extinguisher and cabinet	MIR. - mirror
CAB. - cabinet	F.H.C. - fire hose cabinet	M.S. - mounted
C.I.P. - cast iron pipe	F.H. - fire hydrant	M.TG. - mounting
C.G. - ceiling	F.T.D. - fire treated	M.H.T. - mounting height
CLG. HT. - ceiling height	FIX. - fixture	MULL. - mullion
CTR. - center	F.G. - fixed glass	NOM. - nominal
CEN. - centerline	FLUOR. - fluorescent	N.I.C. - not in contract
C/C - center to center	FL. - floor	N.T.S. - not to scale
CER. - ceramic	F.D. - floor drain	NO. - number
C.T.F. - ceramic tile floor	FT. - foot/feet	O.C. - on center
CE. - chalkboard	FTG. - footing	OPNG. - opening
CLRM. - classroom	FD. - foundation	OPP. - opposite
CL. - clearout	FRM. - frame	OZ. - ounce
CLR. - clear	GA. - gage	O.D. - outside diameter
C.W. - cold water	GALV. - galvanized	OA. - overall
COB. - combination	G.I. - galvanized iron	PN. - panel
CONC. - concrete	G.C. - general contractor	PERF. - perforated
C.M.U. - concrete masonry unit	G.B. - grab bar	P.LAM. - plastic laminate
CON. - conference	GRD. - grade	PL. - plate
CONN. - connection	GRD. BM. - grade beam	P.V.C. - polyvinyl chloride
CONSTR. - construction	GYP. - gypsum	P.P. - power pole
CONT. - continuous	HD. - hand dryer	PREFAB. - prefabricated
CONTR. - contractor	HC. - handicapped	P.T. - pressure treated
C.J. - control joint	HDBD. - handboard	PROJ. - projected
C.CORR. - corridor	HDW. - hardware	PROP. - property line
CTS. - countersink	HTR. - heater	QTY. - quantity
C.F.M. - cubic feet per minute	H.V.A.C. - heating, ventilating & air conditioning	Q.T. - quarry tile
DL. - dead load	HT. - height	RAD. - radius
DTL. - detail	H.M. - hollow metal	REF. - reference
DIAG. - diagonal	H.B. - hose bibb	REFR. - refrigerator
DIAM. - diameter	HORIZ. - horizontal	REINF. - reinforcing/reinforcement
DW. - dishwasher	HR. - hour	REBAR. - reinforcing bar
DIV. - division	I.D. - inside diameter	REQD. - required
DR. - door		R.A. - return air
		REV. - revise/revision



SHEET INDEX	
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A1.1	FLOOR PLAN
A2.1	ELEVATION & DETAILS
A3.1	DETAILS
A3.2	DETAILS
E1.1	EXTERIOR DEMOLITION PLAN
E1.2	INTERIOR DEMOLITION PLAN
E2.1	EXTERIOR NEW WORK PLAN
E2.2	INTERIOR NEW WORK PLAN
E2.3	ELECTRICAL PANEL SCHEDULE

DESIGN DATA	
SCOPE:	THE DESIGN CRITERIA PRESENTED HEREIN IS FOR CODE REVIEW ONLY AND SHALL NOT BE USED BY THE CONTRACTOR FOR BIDDING PURPOSES.
CONSTRUCTION TYPE	
USE GROUP	
CODE	



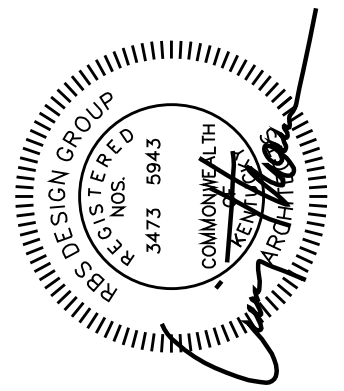
DEMOLITION NOTES

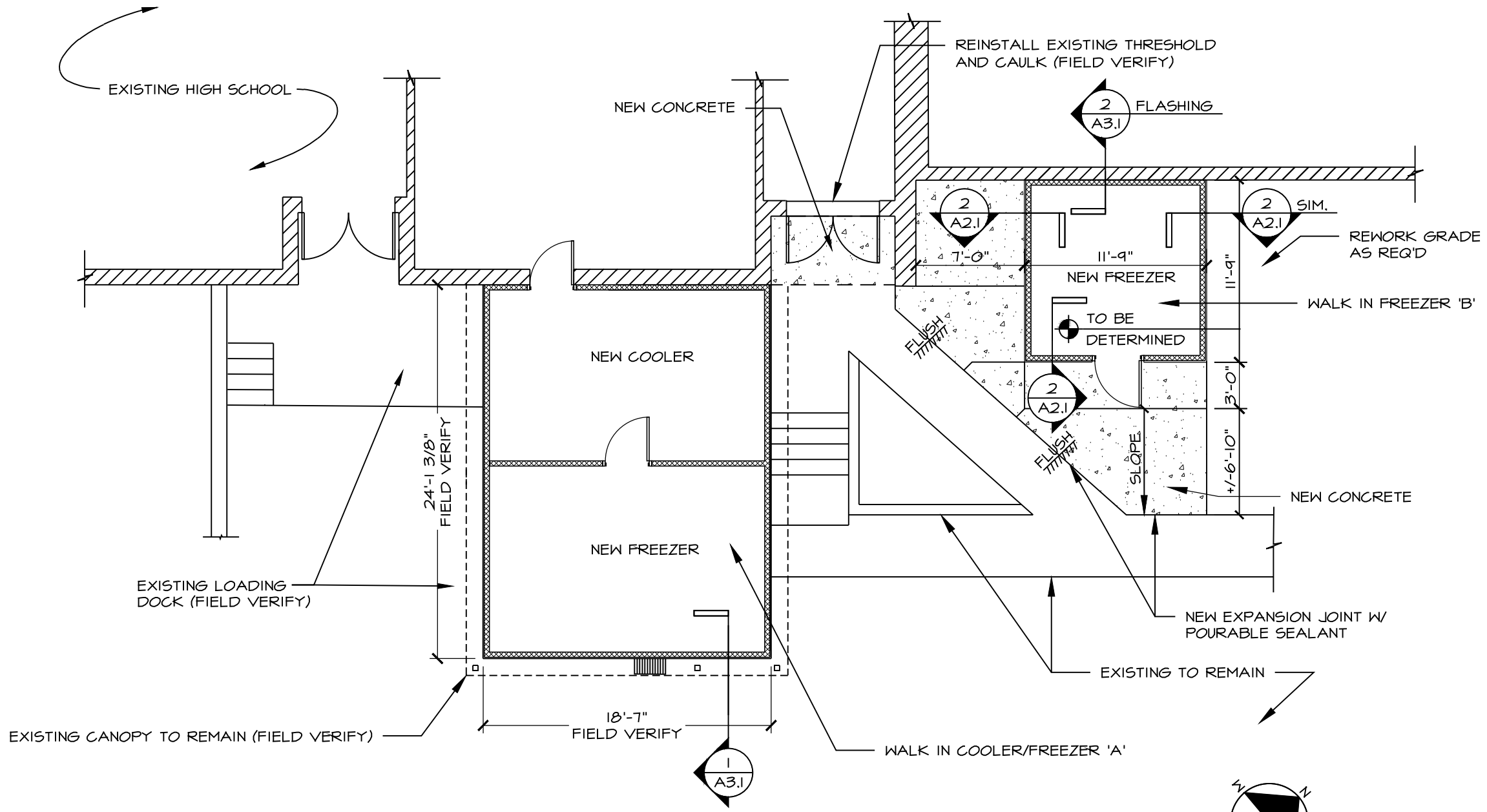
- 1 SAW CUT, REMOVE AND DISPOSE OF EXISTING CONCRETE SIDEWALK.
- 2 DISCONNECT, REMOVE AND DISPOSE OF EXISTING WALK IN FREEZER/COOLER WALLS, ROOF, FLOOR AND COMPRESSOR AND ACCESSORIES. IN ITS ENTIRETY.
- 3 REWORK GRADE AS REQ'D TO INSTALL NEW CONCRETE SLAB, SIDEWALKS AND FREEZER.

GENERAL DEMOLITION NOTES

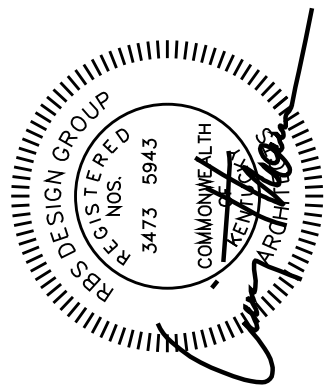
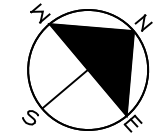
1. GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION REQUIRED FOR COMPLETION OF THE PROJECT, WHETHER INDICATED OR NOT.
2. ALL ITEMS INDICATED TO BE DISPOSED OF SHALL BE DONE SO IN ACCORDANCE WITH ALL GOVERNING REGULATIONS AND ENTITIES.
3. PATCH AND/OR REPAIR ALL SURFACES AND FINISHES ADJACENT TO DEMOLITION AND NEW CONSTRUCTION AS REQUIRED. MATCH EXISTING FINISHES AS CLOSELY AS POSSIBLE
4. SEE ELECTRICAL FOR DEMOLITION REQUIREMENTS.

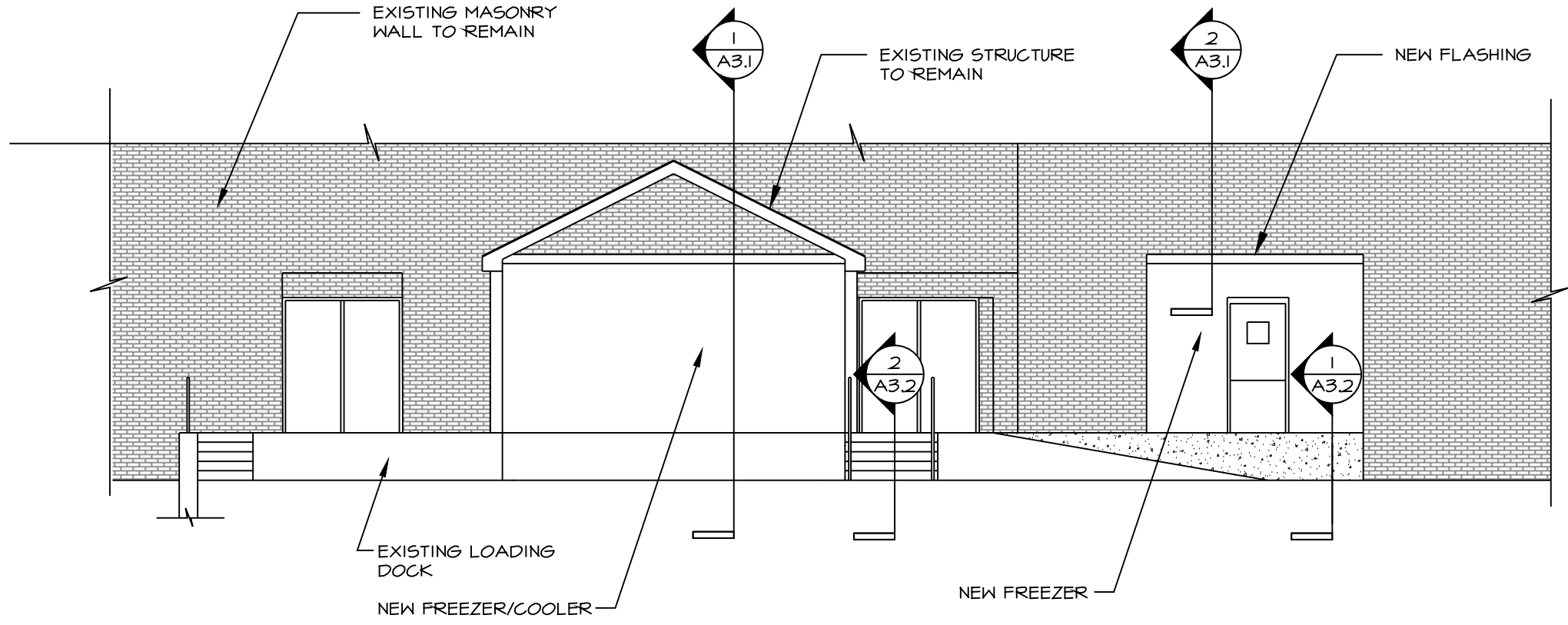
1 DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



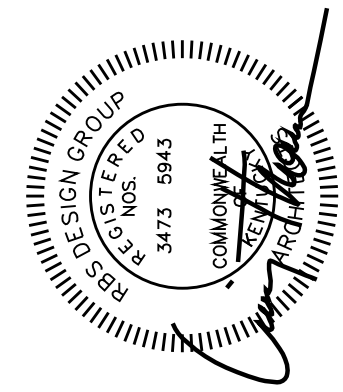


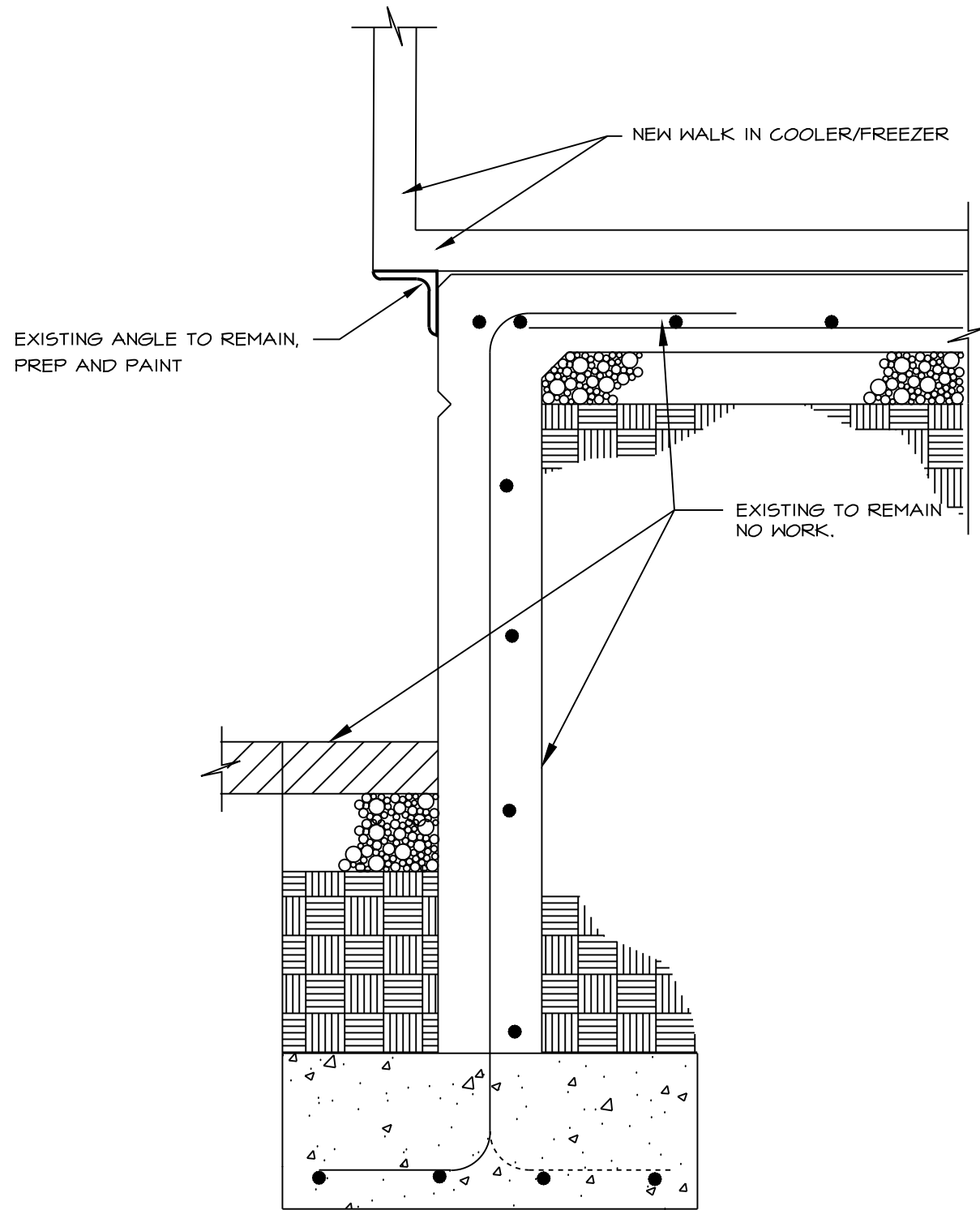
1 FLOOR PLAN
SCALE: 1/8" = 1'-0"



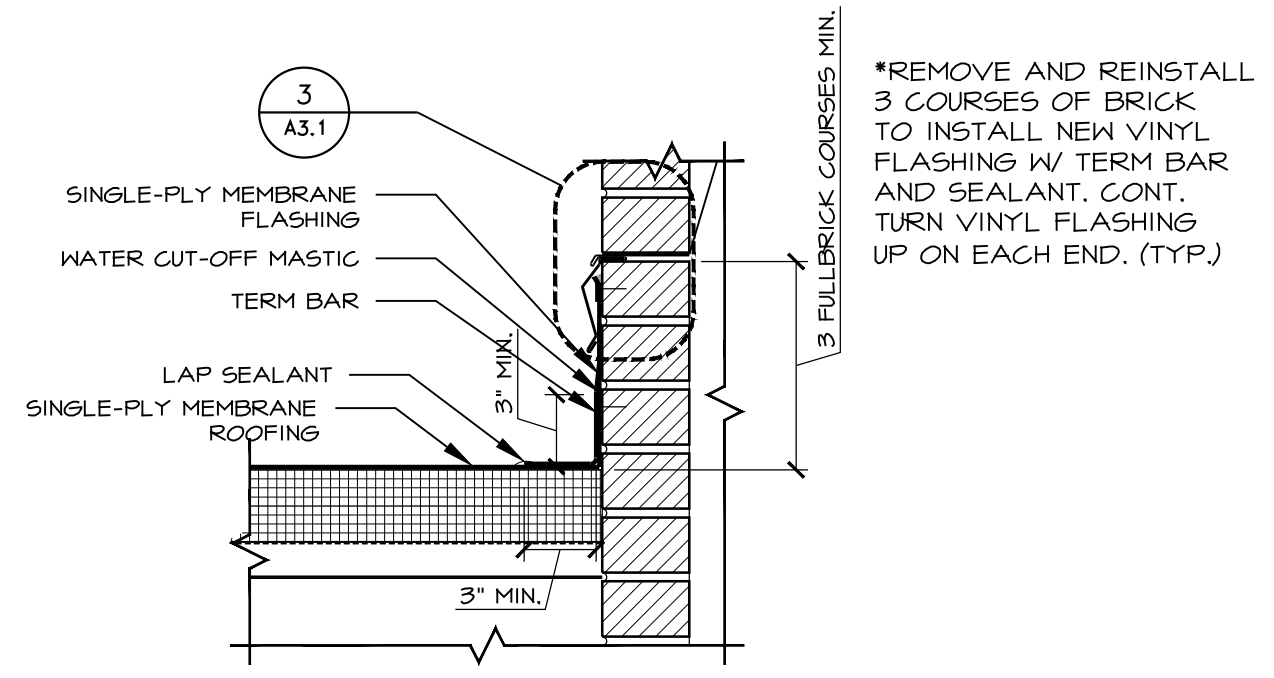


1 ELEVATION
SCALE: 1/8" = 1'-0"

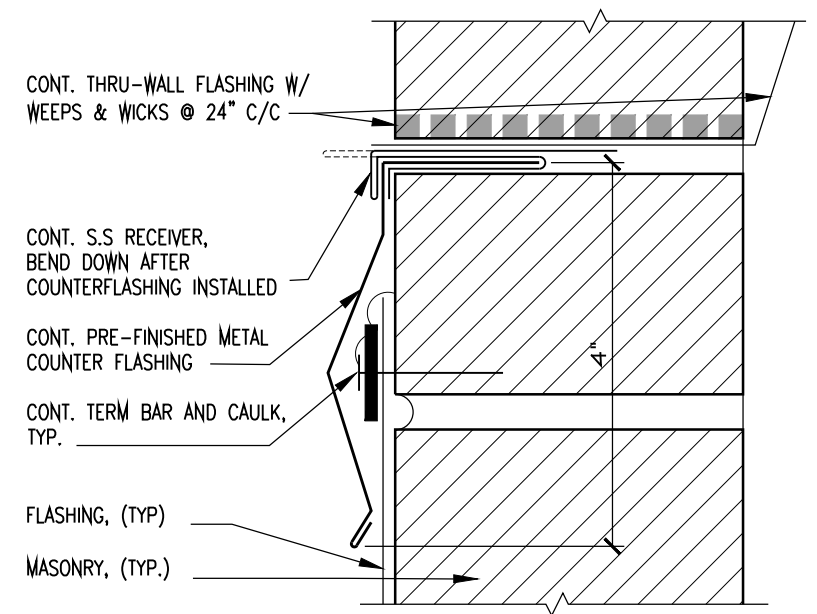




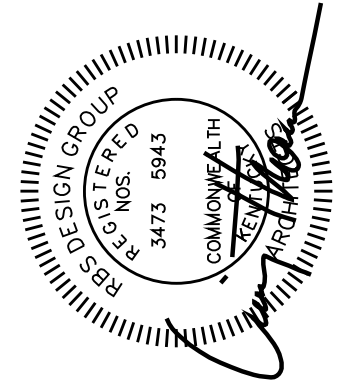
1 SECTION
SCALE: 1" = 1'-0"

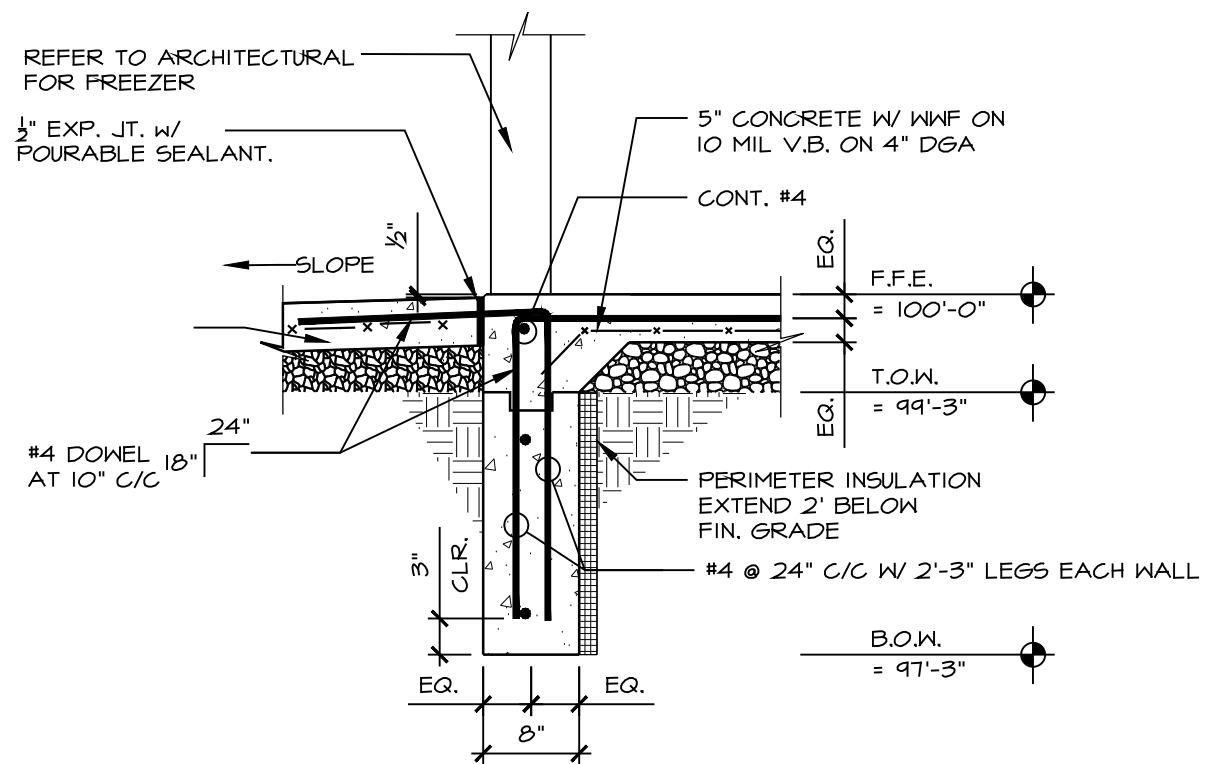


2 TPO FLASHING AT WALL SECTION
SCALE: 1 1/2" = 1'-0"

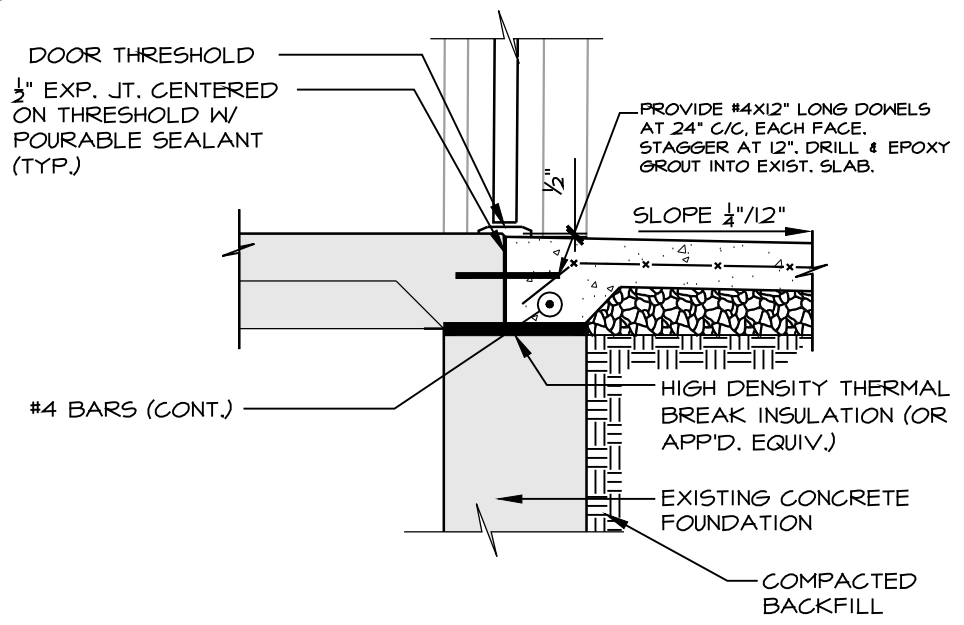


3 REGLET SECTION, (TYP)
SCALE: 6" = 1'-0"

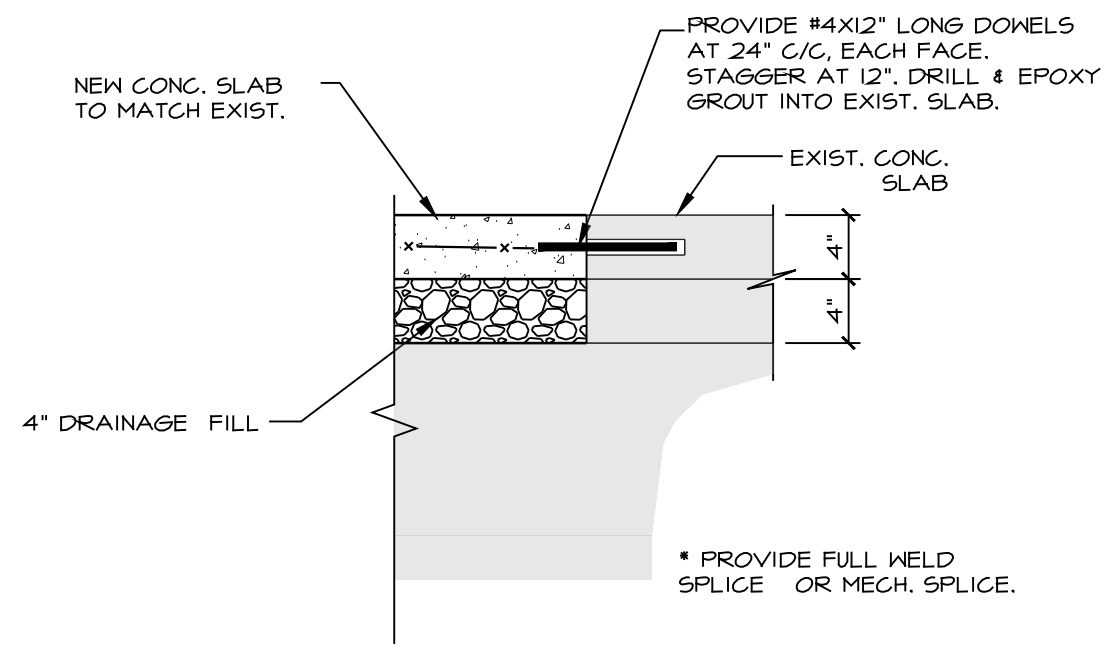




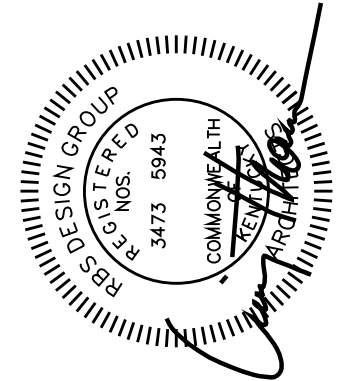
1 TYPICAL FOUNDATION SECTION
 SCALE: 3/4" = 1'-0"
 @ FREEZER DOORWAY



2 TYPICAL EXTERIOR DOORWAY SECTION
 SCALE: 3/4" = 1'-0"
 @ CONCRETE FOUNDATION

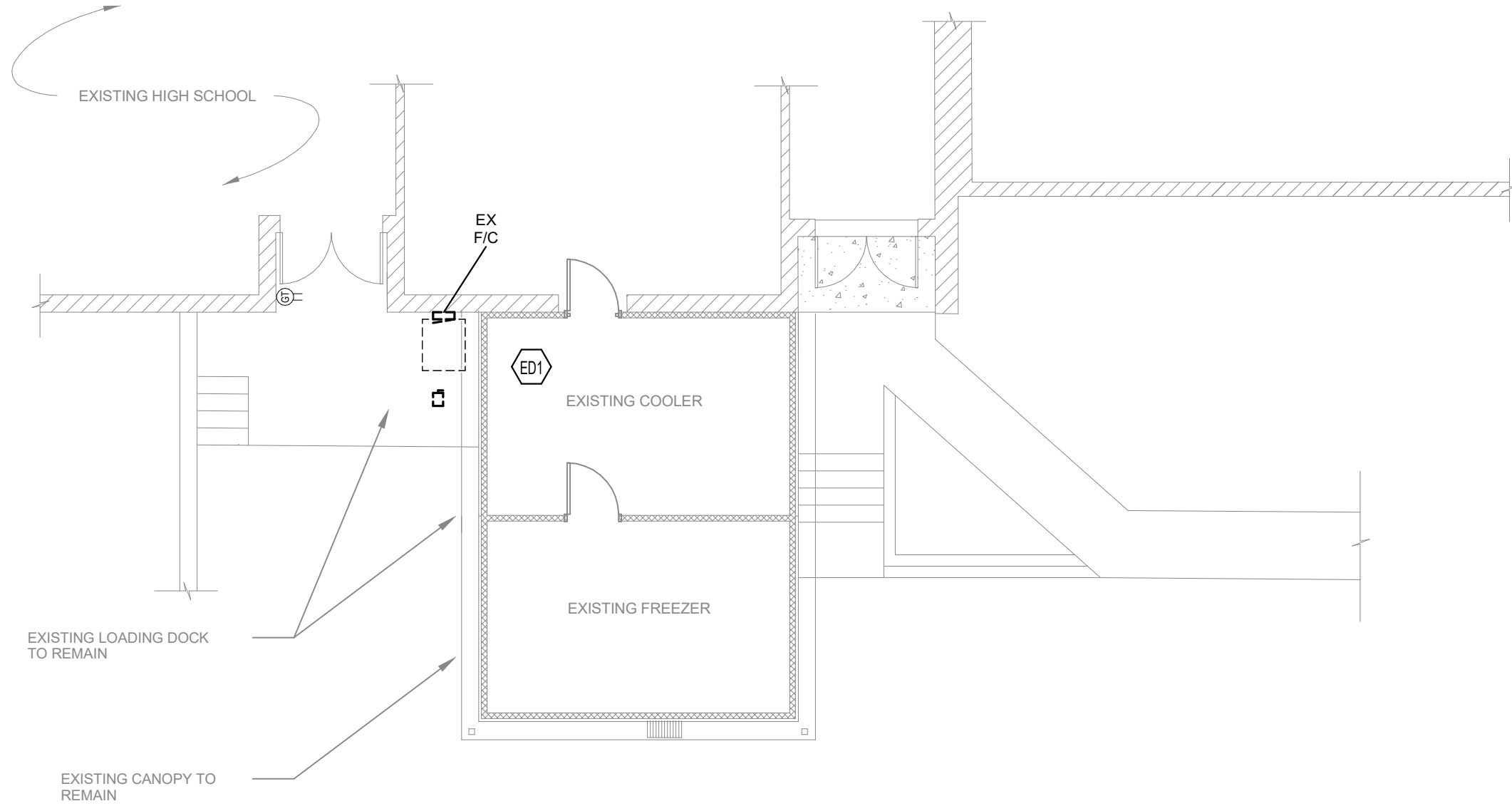


3 TYPICAL CONCRETE DETAIL SECTION
 SCALE: 1" = 1'-0"
 @ TIE-BARS

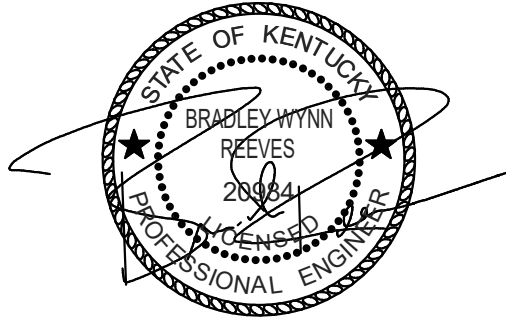
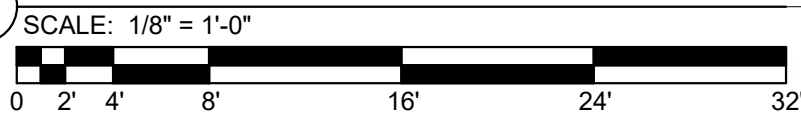


TAGGED NOTES

ED1 CONTRACTOR TO DEMOLISH CONDUIT, WIRING AND DISCONNECTS ASSOCIATED WITH THE EXISTING FREEZER/COOLER. CONTRACTOR ALSO TO DEMOLISH THE EXISTING OUTDOOR PANELBOARD 'EX F/C'.



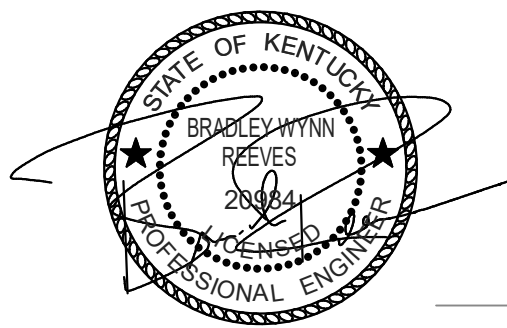
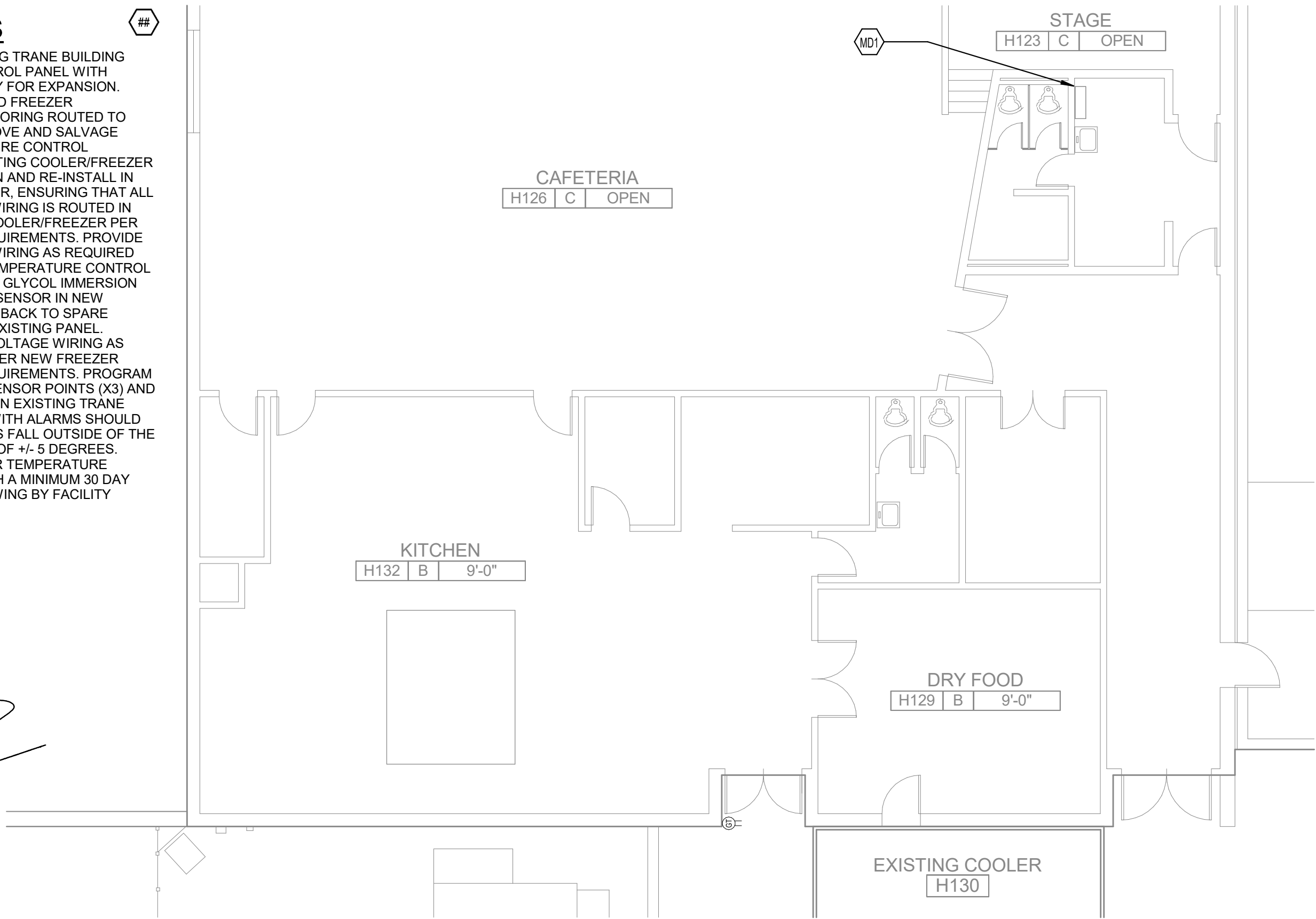
1 EXTERIOR DEMOLITION PLAN



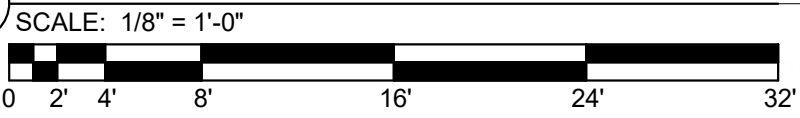
TAGGED NOTES



MD1 LOCATION OF EXISTING TRANE BUILDING TEMPERATURE CONTROL PANEL WITH ADDITIONAL CAPACITY FOR EXPANSION. EXISTING COOLER AND FREEZER TEMPERATURE MONITORING ROUTED TO THIS LOCATION. REMOVE AND SALVAGE EXISTING TEMPERATURE CONTROL SENSORS FROM EXISTING COOLER/FREEZER PRIOR TO DEMOLITION AND RE-INSTALL IN NEW COOLER/FREEZER, ENSURING THAT ALL NEW LOW VOLTAGE WIRING IS ROUTED IN CONDUIT AND INTO COOLER/FREEZER PER MANUFACTURER REQUIREMENTS. PROVIDE NEW LOW-VOLTAGE WIRING AS REQUIRED BACK TO EXISTING TEMPERATURE CONTROL PANEL. PROVIDE NEW GLYCOL IMMERSION TYPE TEMPERATURE SENSOR IN NEW FREEZER AND ROUTE BACK TO SPARE CONTROL NODES IN EXISTING PANEL. PROVIDE NEW LOW-VOLTAGE WIRING AS REQUIRED, ROUTED PER NEW FREEZER MANUFACTURER REQUIREMENTS. PROGRAM ALL TEMPERATURE SENSOR POINTS (X3) AND PROVIDE GRAPHICS ON EXISTING TRANE CONTROLS SYSTEM WITH ALARMS SHOULD ANY OF THESE POINTS FALL OUTSIDE OF THE ACCEPTABLE RANGE OF +/- 5 DEGREES. PROVIDE TRENDS FOR TEMPERATURE SENSING POINTS WITH A MINIMUM 30 DAY TREND TIME FOR VIEWING BY FACILITY MANAGER.



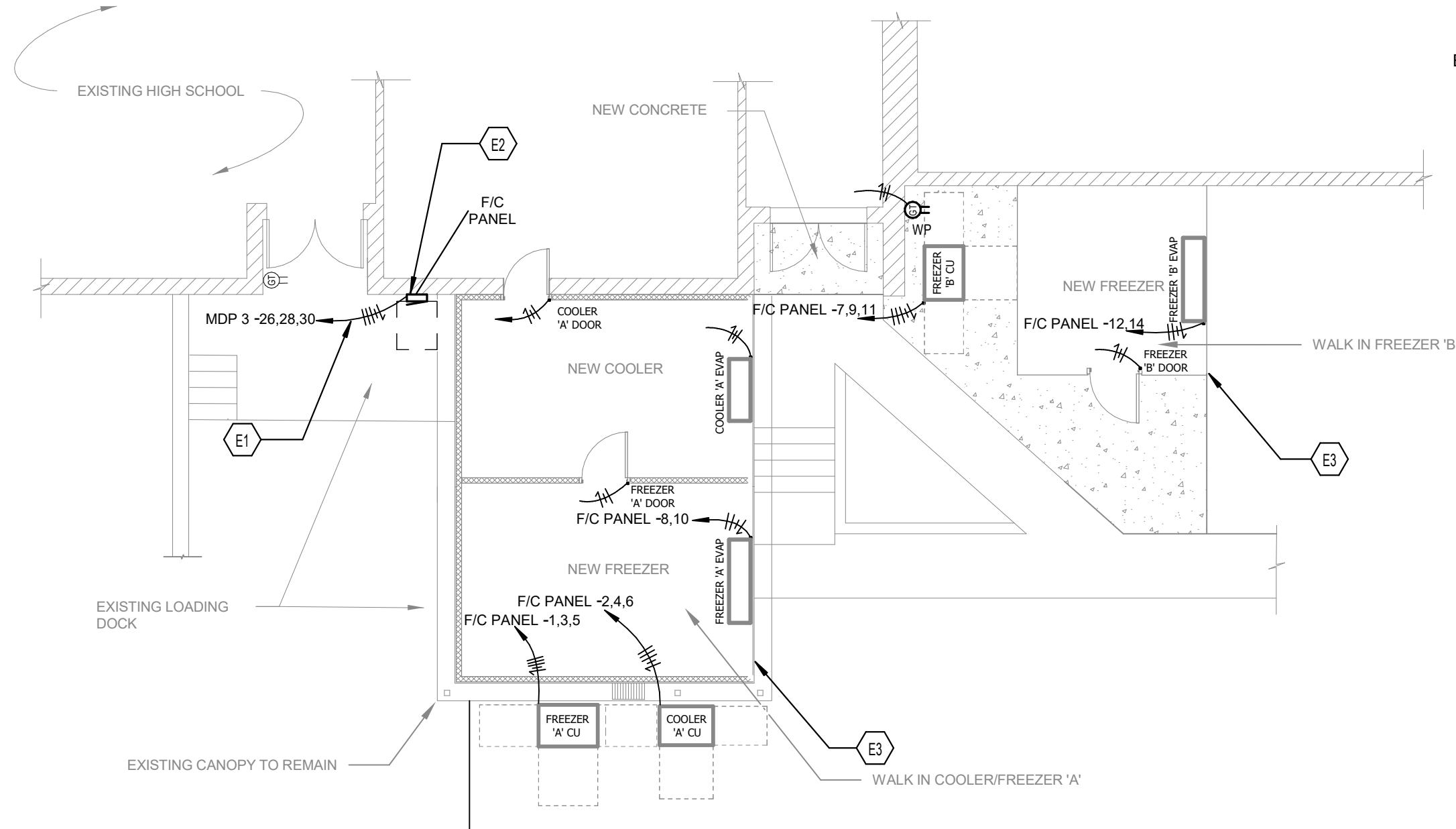
1 INTERIOR DEMOLITION PLAN - FIRST FLOOR



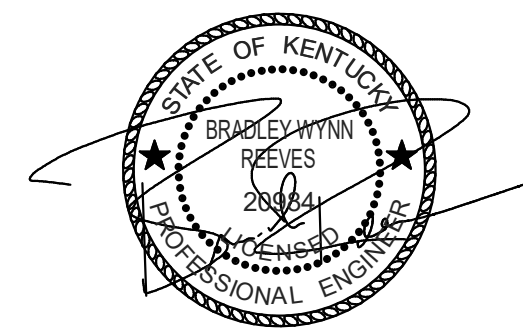
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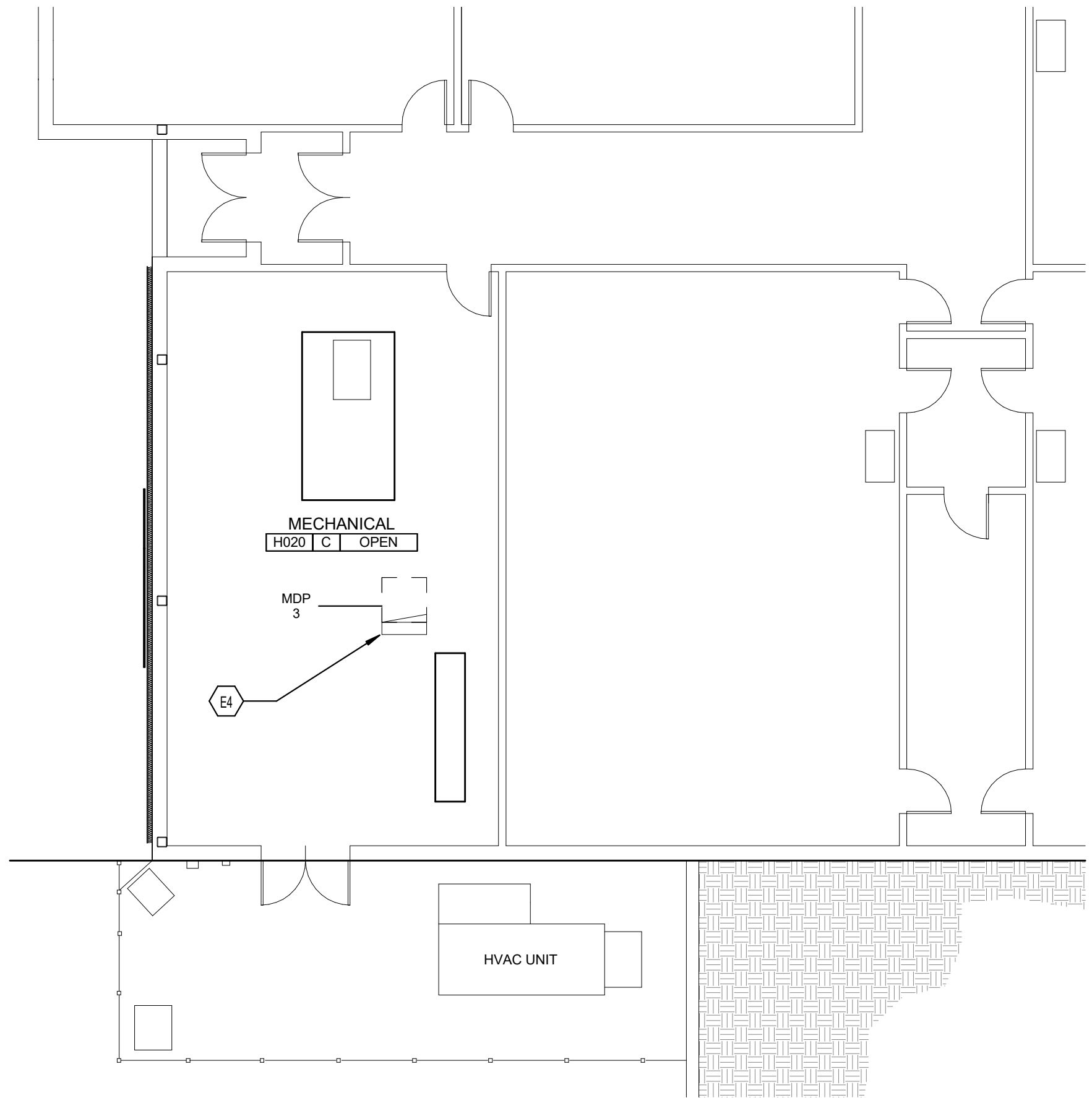


- E1 NEW 'F/C' PANELBOARD FEEDER TO BE AS FOLLOWS: 2" CONDUIT; 3-#2/0 AWG PHASE CONDUCTORS, 1-#2/0 AWG NEUTRAL, 1-#4 AWG GROUND.
- E2 NEW 'F/C' PANELBOARD TO BE 240VAC, 3-PHASE WITH 208/120VAC HIGH LEG B-PHASE. ALL 120VAC NEW WORK LOADS ARE TO BE FED FROM B-PHASE CIRCUITS WITHIN THE 'F/C' PANELBOARD (REFER TO PANEL SCHEDULE ON DRAWING E-2.3).
- E3 GROUND OUTDOOR FREEZER/COOLER AND FREEZER UNIT ENCLOSURES AS REQUIRED PER MANUFACTURER AND NATIONAL ELECTRICAL CODE. COORDINATE WITH CIVIL CONTRACTOR.



1 EXTERIOR NEW WORK PLAN
 SCALE: 1/8" = 1'-0"





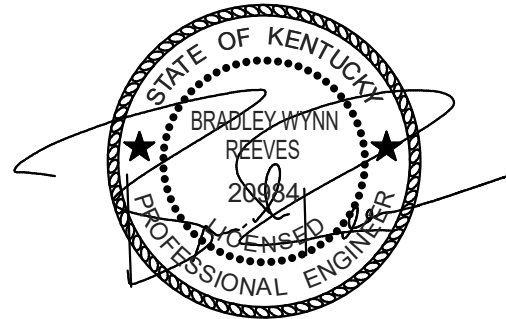
TAGGED NOTES



E4 CONTRACTOR TO INSTALL 125A CIRCUIT BREAKER IN MDP 3 TO FEED NEW PANELBOARD 'F/C'. CIRCUIT LOCATION FOR THE BREAKER WITHIN MDP 3 IS TO BE 26,28,30. (EXISTING FREEZER/COOLER 60A FEEDER BREAKER IN MDP 3 [CIRCUIT LOCATION 7, 9, 11] TO BE SWITCHED TO THE OFF POSITION AND LABELED AS SPARE.)

1 INTERIOR NEW WORK PLAN - BASEMENT

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



PANELBOARD AND WIRING SCHEDULE

PANEL: **F/C PANEL** MAINS TYPE: MLO PANEL INTERRUPTING RATING: 25,000 AIC
 VOLTAGE: 240Δ,3P,3W (WITH 208/120V HIGH-LEG @ B-PHASE) SPD: No LOCATION:
 AMPERES: 125 A MOUNTING: SURFACE SUPPLY FROM: MDP 3

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	FREEZER 'A' CU	3-#10, 1-#10, 1-#10	30	3	1	2.8	2.1					2	3-#12, 1-#12, 1-#12	COOLER 'A' CU
3							2.8	2.1			4			
5									2.8	2.1	6			
	FREEZER 'B' CU	3-#10, 1-#10, 1-#10	25	3	7	2.8	1.8					8	2-#12, 1-#12, 1-#12	FREEZER 'A' EVAPORATOR
9							2.8	1.8			10			
11									2.8	1.8	12			
	FREEZER 'A' DOOR	--	20	1	15		0.5	0.2				16	--	COOLER 'A' EVAPORATOR
					17					0.0	0.0	18		
	SPARE	--	20	2	19	0.0	0.0					20	--	SPARE
	FREEZER 'B' DOOR	--	20	1	21		0.5	0.4				22	--	COOLER 'A' DOOR
					23							24		
	FREEZER 'B' RECEPTACLE	--	20	1	25		0.0					26	--	SPARE
					27			0.2	0.0			28		
					29						0.0	30		

11.1 kVA 11.1 kVA 9.4 kVA
 82 A 82 A 68 A

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	29864 VA	100.00%	29864 VA	TOTAL CONNECTED LOAD:	31640 VA
Spare	1776 VA	100.00%	1776 VA	TOTAL ESTIMATED DEMAND:	31640 VA
				TOTAL CONNECTED CURRENT:	76 A
				TOTAL ESTIMATED DEMAND CURRENT:	76 A
				25 % ADDITIONAL CAPACITY:	19 A
				TOTAL PANEL CURRENT:	95 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

