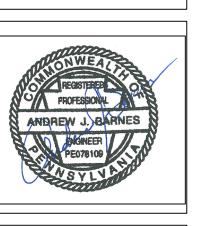




- 1) PIPING TO 5' OUTSIDE OF BUILDING. SEE CIVIL DRAWINGS FOR CONTINUATION.
- 2 CHW/CHR & HS/HR PIPING UP.
- TRANSITION DUCTWORK TO FULL SIZE OF WINDOW OPENING AND PROVIDE MOD. PROVIDE INSECT SCREEN AT TERMINATION.
- 4 LOUVER, SIZED FOR FULL SIZE OF OPENING. PROVIDE STUB DUCT WITH A MOD AND INSECT SCREEN. MOD TIED TO EF-3.
- 3" EA UP INTO WALL CAVITY ABOVE. EA DUCT SHALL TERMINATE BELOW TOP OF CRAWL SPACE WITH BIRD SCREEN AND OPEN END.
- 6 HEATING WATER CIRCULATING PUMP ON INERTIA PAD ON 4" HIGH CONCRETE HOUSEKEEPING PAD. SEE TYPICAL DETAIL
- 7 UNIT HEATER SUSPENDED FROM STRUCTURE ABOVE (TYPICAL), SEE DETAIL
- 8 GLYCOL FEED TANK WITH FEED PUMP ON 4" HIGH CONCRETE HOUSEKEEPING PAD. SEE DETAIL
- 9 EXPANSION TANK EXP-1 ON 4" HIGH CONCRETE HOUSE KEEPING PAD. SEE DETAIL
- CHILLED WATER CIRCULATING PUMP ON INERTIA PAD ON 4" HIGH CONCRETE HOUSEKEEPING PAD, SEE DETAIL
- 11) 1" DOMESTIC COLD WATER MAKEUP. SEE TYPICAL MAKE-UP WATER CONNECTION DETAIL
- (12) LOW PRESSURE CONDENSATE RETURN. SEE PLUMBING DRAWINGS
- (13) CONCRETE HOUSE KEEPING PAD, SEE TYPICAL DETAIL
- (14) CONDENSATE RECEIVER CR-1 ON CONCRETE PAD. SEE DETAIL
- (15) SEE STEAM TO HEATING WATER CONVERTER DETAIL
- (16) PIPE STAND SUPPORT UNDER CONVERTER
- (17) SEE CHEMICAL BYPASS FEEDER DETAIL
- (18) 3" EA UP INTO WALL CAVITY ABOVE.
- (19) EA DUCT TERMINATE BELOW TOP OF CRAWL SPACE WITH BIRD SCREEN AND OPEN END.
- 20) SEE STEAM PRESSURE REDUCING STATION DETAIL.
- 21) BALANCING VALVE.

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BID SE

DUCTWORK, AT GRADE, PENETRATING THE BUILDING ABOVE GRADE AND BELOW THE FIRST FLOOR. SEE BASEMENT FLOOR PLAN FOR CONTINUATION. CUT AND PATCH MASONRY AS NEEDED. PROVIDE LINTEL.

(2) 4" DRYER EXHAUST DOWN TO DRYER.

TERMINATE 4" DRYER EXHAUST WITH BACKDRAFT DAMPER AND HOODED WALL CAP. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. VENT THAT SHALL BE FREE OF OBSTRUCTIONS OR PROTRUSIONS THAT COULD COLLECT LINT.

(4) 18x14 OA UP/DN IN CHASE. OFFSET DUCT AS NEEDED TO AVOID PARTITION WALL IN ATTIC ABOVE.

5 CWS/CWR & HS/HR PIPING UP/DN.

6 DUCT UP TO ATTIC SPACE.

7) HS/HR PIPING BELOW GRADE ENTERING BASEMENT, SEE BASEMENT FLOOR PLAN FOR CONTINUATION.

8 3" EA DUCT UP/DN.

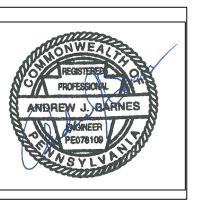
9 PRESSURE SENSOR. COORDINATE HEIGHT AND LOCATION WITH ARCHITECTURAL DRAWINGS. SENSES PRESSURE DIFFERENCE BETWEEN ISOLATION ROOM AND THE ANTEROOM.

10 6" EA DUCT UP.

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MECHANICAL

FIRST FLOOR PLAN

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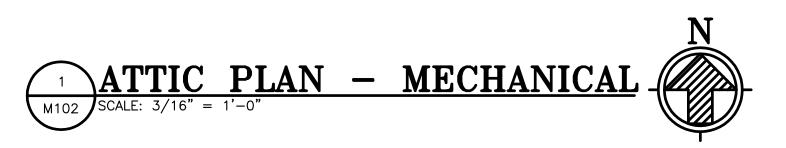
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GRAPHIC SCALE three sixteenth inch = one foot 0 2 4 8



**REFERENCED NOTES:** 

1) PROVIDE STUB DUCT, SIZED FOR FULL SIZE OF OPENING, WITH A MOD. MOD TIED TO EF-6.

2 DUCT DOWN AND CONNECT TO AIR DEVICE IN THE CEILING BELOW.

3 DUCT DOWN TO CEILING SPACE.

(4) CWS/CWR & HS/HR PIPING DN.

(5) 3" EXHAUST UP THROUGH ROOF, TERMINATE WITH BIRD SCREEN AND GOOSENECK.

(6) 3" EXHAUST DOWN INTO WALL CAVITY BELOW.

PROVIDE STUB DUCT, SIZED FOR FULL SIZE OF OPENING, WITH A MOD AND INSECT SCREEN. MOD TIED TO SF-1.

8 BAROMETRIC BACK-DRAFT DAMPER WITH ADJUSTABLE WEIGHTED DAMPER.

(9) COORDINATE EXACT DROP LOCATION WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS.

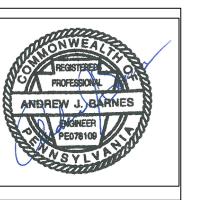
(10) 6" EA UP THROUGH ROOF. TERMINATE WITH GOOSENECK 18" ABOVE ROOF.

## **NEW CONSTRUCTION NOTE:**

CONTRACTOR WILL BE REQUIRED TO REMOVE EXISTING WALL FRAMING MATERIAL AND/OR EXISTING ROOF SHEATHING (NOT EXPOSED TO WEATHER) IN THE EXISTING ATTIC AREA, TO INSTALL SOME OF THE NEW SYSTEMS. SEE STRUCTURAL DRAWINGS FOR REQUIREMENTS FOR PROVIDING ADDITIONAL HEADERS AND/OR FRAMING TO MAINTAIN STRUCTURAL INTEGRITY OF THE BUILDING. CONTRACTOR AND/OR SUB—CONTRACTOR CREATING THE OPENING IS RESPONSIBLE FOR PROVIDING ADDITIONAL FRAMING.

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M102

BID SET

GLYCOL INJECTOR: WESSEL GMP-13050 1/3 HP, 50 GALLON RESERVOIR

120V 1ø

	HYDRONIC HEATER SCHEDULE										
UNIT NO.	CFM	BTU/ HR	FLOW (GPM)	PRESS DROP (FT H20)	HS/HR PIPE SIZE	VOLTAGE	PHASE	AMPS	TYPE		REMARKS
UH-1	245	8,030	0.8	0.8	3/4"	120	1	0.8	UNIT	123	MODEL HS-108A
UH-2	500	18,400	1.9	2.2	3/4"	120	1	8.0	UNIT	123	MODEL HS-118A
CUH-1	230	16,400	1.7	0.24	3/4"	120	1	1.0	CABINET	423	MODEL F02

(1) HEATERS SHALL BE AS MANUFACTURED BY STERLING (2) PROVIDE INTEGRAL THERMOSTAT

(3) PROVIDE DISCONNECT SWITCH

(4) HEATERS SHALL BE AS MANUFACTURED BY VULCAN

	DIFFUSER, REGISTER AND GRILLE SCHEDULE											
NOMINAL NECK SLOT SLOT OTY DATERN CFM INTEGRAL												
DESIG.	SERVING	MOUNTING  3	FACE SIZE INCHES	SIZE INCHES	MATERIAL	SLOT LEN. IN.	SLOT WID. IN.	QTY. OF SLOTS	PATTERN	RANGE	INTEGRAL DAMPER	REMARKS
SD-1	SUPPLY	CEILING	24"x24"	6"DIA	STEEL				102	50-110	NO	PRICE MODEL SMD
SD-2	SUPPLY	CEILING	24"x24"	8"DIA	STEEL				102	111-230	NO	PRICE MODEL SMD
SD-3	SUPPLY	CEILING	24"x24"	10"DIA	STEEL				102	231-400	NO	PRICE MODEL SMD
RR-1	RETURN	CEILING	24"x24"	22"x22"	STEEL					0-2100	NO	PRICE 530D
EG-1	EXHAUST	CEILING	12"x12"	10"×10"	ALUM				4	0-630	NO	PRICE 620
TG-1	RETURN	CEILING	8"x8"	6"x6"	ALUM				4	0-145	NO	PRICE 520

- 1. ALL AIR DEVICES LOCATED IN "WET" OR "HUMID" ENVIRONMENTS SHALL BE ALUMINUM. ALL OTHER AIR DEVICES SHALL BE STEEL.
- 2. MAX AIR PRESSURE DROP (APD) 0.1"WG.
- 3. MAX NC 25.
- 4. ALL AIR DEVICE AIR QUANTITIES (CFM) SHALL BE AS INDICATED ON PLANS. REFER TO THIS SCHEDULE FOR NECK SIZE AND

DEDICATED OUTDOOR AIR UNIT SCHEDULE

DOAS-1 1.0 1500 1.0 118.6 64.5 95/78 54.5/54.3 27.0 70.0/60.2 57 152.3 0/0 81.7/50.3 15 2.6 240/1/60 62 90 1619 AAON / RN-011

5. DUCT RUN OUT SHALL BE SAME AS NECK SIZE UNLESS NOTED OTHERWISE. ALL AIR DEVICES SHALL BE PRICE OR APPROVED EQUAL.

#### **SPECIAL NOTES:**

(1) 4-WAY DISCHARGE SHALL BE ADJUSTABLE PATTERN, AND SHALL ALSO BE ADJUSTED AS FOLLOWS; CORRIDORS LESS THAN 8 FEET WIDE SHALL BE 2-WAY ARRANGEMENT. OTHERS SHALL BE ADJUSTED TO SUIT ACTUAL CONDITIONS (EXAMPLE: NEAR WALL 3-WAY, IN CORRIDOR 2-WAY, ETC.)

HW COIL PERFORMANCE

- 2 PROVIDE MANUFACTURER'S SECTORIZING BAFFLES TO ADJUST AIR PATTERN TO MEET SPECIAL NOTE (1).
- (3) COORDINATE WITH ARCHITECTURAL WORK, FOR MOUNTING.

DX COIL PERFORMANCE

(4) GRILLE WITH 3/4" BLADE SPACING, 45° DEFLECTION.

EAT OF LAT OF DB/WB

				P	UMP SCHEDUI	LE							,
		TOLL	<u> </u>			1				MIN			D
DESIG	GPM	TDH FT. H <sub>2</sub> O	RPM	HP	ELECTRIC SERVICE	REMARKS	DESIG	S.A. FAN MOTOR (HP)	S.A. CFM	MIN ESP (IN. WC)	TOTAL CAP (MBH)	SENS. CAP (MBH)	EAT O
P-1	60	45	1750	2.0	240V/1ø/60HZ	BASIS OF DESIGN: BELL & GOSSETT, SERIES E-1510	DOAS-1	1.0	1500	1.0	118.6	64.5	95/78
P-2	60	45	1750	2.0	240V/1ø/60HZ	BASIS OF DESIGN: BELL & GOSSETT, SERIES E-1510		!	ļ	ļ			
P-3	50	45	1750	1.5	240V/1ø/60HZ	BASIS OF DESIGN: BELL & GOSSETT, SERIES E-1510	NOTES:	IDE VFD (	ON SA	FAN			.3
										SCONNECT	SWITCH.		3.

- 1. PROVIDE VFD ON SA FAN.
- 2. PROVIDE INTEGRAL DISCONNECT SWITCH.
- 3. PROVIDE CURB THAT CAN ACCOMMODATE SIDE DISCHARGE.

HOT GAS REHEAT

CAPACITY LAT OF (MBH) DB/WB RH%

3. CURB SHALL BE MOUNTED ON 6" HIGH REINFORCED CONCRETE PAD GRADE.

-						
		E	XPANS	SION	TA	N
	UNIT NO.	MIN PRESSURE PSI	MAX PRESSURE PSI	ACCEPTAN VOLUM (GALLON	Ε	

1. PROVIDE A VFD WITH A DISCONNECTING MEANS AND A BYPASS.

MANF/MODEL TACO / CA-90 15 80 NOTES:

	ST	EAM [	ГО	WATE	R HE	EAT E	XCHANG	ER				
	STEAM HYDRONIC											
JNIT NO.	LBS/HR	PRESSURE PSI	FLOW GPM	MAX PRESS DROP (FT H20)	WATER TEMP IN	WATER TEMP OUT	TYPE	MANF/MODEL				
X-1	720	10	60	1.26	154	180	SHELL & TUBE	TACO / E08210-8L				
OTES:												

	FAN COIL UNIT SCHEDULE																								
	COOLING CAPACITY  S.A. FAN S.A. O.A. ESP. TOTAL LOSION							HEATING C	APACITY					ELECTR	CAL CH	AR.									
DESIG	MOTOR (HP)	S.A. CFM	O.A. CFM	ESP (IN. WC)	TOTAL LOAD (MBH)	SENS. LOAD (MBH)	EAT OF DB/WB	LAT OF DB/WB	EWT/LWT	FLOW (GPM)	WPD (FT H20)	CWS/CWR SIZE	TOTAL LOAD (MBH)	EAT OF DB	LAT OF DB	EWT/LWT	FLOW (GPM)	WPD (FT H20)	HS/HR SIZE	MANF/MODEL	VOLT/PH/HZ	MCA (AMPS)	MOCP (AMPS)	WEIGHT (LBS)	REMARKS
FCU-1	(2)1/4	1070	140	0.5	29.6	24.3	76.2/64.2	57.0/55.7	45/55	5.9	7.3	1"	31.0	63.9	88.5	180/115	1.0	7.4	3/4"	DAIKIN/FCHH	120/1/60	9.6	15	134	
FCU-2	(2)1/4	800	145	0.5	25.5	18.1	77.7/65.5	56.9/55.0	45/55	5.1	5.7	1"	25.3	59.2	88.3	180/127	1.0	5.3	3/4"	DAIKIN/FCHH	120/1/60	9.6	15	134	D D
FCU-3	(2)1/4	960	130	0.5	25.8	22.4	76.5/64.0	55.3/55.1	45/55	5.2	4.1	1"	25.7	62.7	87.0	180/126	1.0	5.4	3/4"	DAIKIN/FCHH	120/1/60	9.6	15	134 (	<u></u>
FCU-4	1/8	405	405	0.5	9.3	7.6	76.9/65.8	59.8/58.5	45/55	1.9	1.0	3/4"	11.4	61.0	86.8	180/156	1.0	2.6	3/4"	DAIKIN/FCHH	120/1/60	3.1	15	64 (	<u>D</u>
FCU-5	1/8	425	75	0.5	13.3	9.7	76.9/65.8	55.9/55.5	45/55	2.7	2.7	3/4"	16.6	59.6	95.6	180/145	1.0	3.6	3/4"	DAIKIN/FCHH	120/1/60	3.1	15	64 (	
¥CD>6	V1/4/	\$05	65	<b>0.5</b>	74/3	11.2	77.0/65.1	<b>/56.7/55.8</b>	45/55/	2:9	3.2	<i>₹</i> /4"∕	√16.9 <b>∕</b>	<b>√61.7</b>	92.5	180/145	<b>√</b> ; <b>◊</b>	√3.9 ✓	3/4"/	DAIKIN/FCHH V	120/1/60/	5.3	\ \ \ \	94 (	
FCU-7	(2)1/4	985	220	0.5	29.3	22.8	78.2/65.5	56.6/55.6	45/55	5.9	7.2	1"	26.9	57.1	82.6	180/124	1.0	5.7	3/4"	DAIKIN/FCHH	120/1/60	10.6	15	94 (	1)
FCU-8	1/4	500	1,65	<u> </u>	22.6	17.3	79.1×66,3	55.6/55.4	<b>4</b> 5/ <b>5</b> 5	<u> </u>	4.6	<u> </u>	22.1	√ 54.4	<b>8</b> 4.5 ∕	180/149	1√5^	8.2	√3/A" <u> </u>	DAIKIN/FCHH 🔨	120/1/60	<b>√</b> 5.3 ✓	15\	134	

1. SUPPLY FAN SHALL HAVE AN ECM MOTOR.

				F	AN	SCHEDULE			
FAN NO.	SERVING	MOTOR	CFM	E.S.P.	RPM	TYPE & DRIVE	CONTROL	ELECT. CHAR.	REMARKS
EF-1	TOILET ROOMS & JANITORS CLOSET	1/4 HP	255	0.6	1750	ROOF CURB; DIRECT	CONTINUOUS	120V/1ø/60HZ	12
EF-2	ISOLATION AREA	1/4 HP	560	0.6	1750	ROOF CURB; DIRECT	CONTINUOUS	120V/1ø/60HZ	23
EF-3	BASEMENT	1/4 HP	1600	0.2	697	SIDEWALL; DIRECT	CONTINUOUS	120V/1ø/60HZ	4
EF-4	CRAWL SPACE VENTILATION	96 W	90	1.0	1750	SIDEWALL; DIRECT	CONTINUOUS	120V/1ø/60HZ	5
EF-5	CRAWL SPACE VENTILATION	96 W	90	1.0	1750	SIDEWALL; DIRECT	CONTINUOUS	120V/1ø/60HZ	5
EF-6	ATTIC-VENTILATION	1/4 HP	1900	0.2	1750	SIDEWALL; DIRECT	TSTAT	120V/10/60HZ	<b>D</b>
EF-7	RESTROOM	80 W	100	0.25	940	SIDEWALL; DIRECT	CONTINUOUS		6 )
SF-1	ATTIC VENTILATION	1/4 HP	1000	0.2	1750	SIDEWALL; DIRECT	TSTAT	120V/10/60HZ	4
NOTES:	OVIDE BACK DRAFT DAMPER.		(2)			BE AS MANUFACTURED BY "GREENHEC			

3 PROVIDE VFD. 4) FAN SHALL BE AS MANUFACTURED BY "GREENHECK", MODEL 'SBE-1H2O', OR EQUAL.

5 FAN SHALL BE "TJERNLAND 3" RADON FAN", OR EQUAL. 6 FAN SHALL BE AS MANUFACTURED BY "GREENHECK", MODEL 'SP-110-VG', OR EQUAL.

HVAC DUC	T CONSTRUCTION	SCHEDULE
----------	----------------	----------

TOTAL CAP (MBH) EAT OF DB/WB DB/WB FLOW (GPM) P DROP (FT HD) VOLT/PH/HZ FLA MOCP (AMPS) (AMPS) (LBS)

DUCT PRESSURE CLASS REQUIREMENTS										
SYSTEM		SMACNA	DUCT PRE	SSURE CLAS	SS (INCHES	S W.G.)		NOTES		
SISIEM	SUPPLY	RETU	JRN	EXHA	UST	OUTSID	E AIR	NOTES		
	DISCHARGE	DISCHARGE	SUCTION	DISCHARGE	SUCTION	DISCHARGE	SUCTION			
ENERAL SUPPLY	2.0		2.0				2.0			
IGH VELOCITY SUPPLY	4.0									
ENERAL EXHAUST : VENTILATION			-	2.0	2.0			1		

ELECTRICAL CHAR.

A. MIXED AIR DUCTS (RA & OA) AND INLET PLENUMS SHALL BE CONSTRUCTED SAME AS RETURN DUCTS. B. PROVIDE DUCT JOINT TYPES WHICH ASSURE COMPLIANCE WITH THE ASSOCIATED LEAKAGE FACTOR.

	MINIMU	M RECTANG	ULAR DU	JCT COI	NSTRUCTION	REQUIR	REMENTS	;
2.0	INCHES W. (POS. OR	G. STATIC NEG.)	3.0	INCHES W. (POS. OR		4.0	INCHES W. (POS. OR	
DUCT DIMENSION (INCHES)	MINIMUM STEEL GAGE	MAXIMUM REINFORCEMENT SPACING (FEET)	DUCT DIMENSION (INCHES)	MINIMUM STEEL GAGE	MAXIMUM REINFORCEMENT SPACING (FEET)	DUCT DIMENSION (INCHES)	MINIMUM STEEL GAGE	MAXIMUM REINFORCEMENT SPACING (FEET)
10" LESS	26	NONE	18" LESS	24	5.0	18" LESS	24	5.0
11"-12"	24	NONE	19"-28"	22	5.0	19"-28"	22	5.0
13"-30"	24	5.0	29"-48"	22	2.5	29"-42"	22	2.5
31"-42"	22	5.0	49"-72"	20	2.5	43"-60"	20	2.5
43"-48"	22	2.5	73"–84"	18	2.5	61"-72"	18	2.5
49"-84"	20	2.5	85" UP	16	2.5	73"–96"	16	2.5
85" UP	18	2.5						
			, and the second				, and the second	

DUCT REINFORCEMENT SHALL BE AS LISTED BY SMACNA DUCT CONSTRUCTION STANDARDS

DUCT SEAL CLASS AND LEAKAGE	REQUIREMENTS
-----------------------------	--------------

PRESS. CLASS (INCHES W.G.)	SEAL CLASS (NOTE 1)	TEST PRESS. (INCHES W.G.)	LEAKAGE FACTOR (NOTE 2)	1. S
2.0 3.0 4.0 6.0 10.0	C B A A	2.0 3.0 4.0 6.0 10.0	9.5 12.5 15.0 19.0 27.0	В

- THE LEAKAGE REQUIREMENTS SCHEDULED ABOVE ARE FOR STANDARD HVAC APPLICATIONS W/ RECTANGULAR DUCTS.
- SEAL ALL DUCTS AS INDICATED ON THIS SCHEDULE.
- UNLESS OTHERWISE NOTED ABOVE LEAK TEST ALL DUCTS. LEAKAGE RATES SHALL NOT EXCEED LEAKAGE FACTORS INDICATED ON THIS SCHEDULE FOR THE APPLICABLE PRESSURE CLASSES.

<ol> <li>SMACNA SEAL CLASS DESCRIPTIONS:</li> <li>A — SEAL ALL TRANSVERSE JOINTS,</li> </ol>
LONGITUDINAL SEAMS AND DUCT WALL PENETRATIONS.

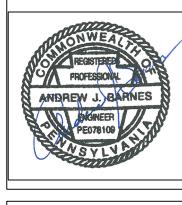
B - SEAL ALL TRANSVERSE JOINTS AND LOGITUDINAL SEAMS.

C - SEAL TRANSVERSE JOINTS.

2. DUCT LEAKAGE CLASSIFICATION, CL=6, MAX. LEAKAGE RATE AT TEST PRESSURE (CFM/100 S.F. OF DUCT SURFACE AREA), REFER TO ASHRAE HANDBOOK-FUNDAMENTALS DUCT DESIGN CHAPTER FOR DETAILS.

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# BASEMENT FLOOR PLAN - PLUMBING | SCALE: 3/16" = 1'-0"

## **GENERAL NOTES:**

1. INSTALL ABOVE FLOOR. ROUTE SANITARY PIPING AS HIGH AS POSSIBLE AT MINIMUM 2% SLOPE UNLESS NOTED OTHERWISE.

## **REFERENCED NOTES:**

- 1) 1/2" COLD & HOT WATER DOWN AND CONNECT TO EXISTING PLUMBING FIXTURE.
- 2 CONVERT EXISTING WATER CLOSET CONNECTION TO CLEAN OUT AND CONNECT TO EXISTING SANITARY
- 3 2" VENT DOWN AND CONNECT TO EXISTING VENT PIPE.
- 4" SANITARY DOWN, CONNECT TO EXISTING 4" SANITARY ABOVE FLOOR.
- 5 SIMPLEX SUMP PUMP AND BASIN.
- 6 2" PUMP DISCHARGE AT CEILING, CONNECT TO SANITARY MAIN PIPING.
- 7 PROVIDE SPRINKLER PROTECTION FOR AREA WITHIN BOUNDARY.
- 8 TO HYDRAULICALLY DESIGNED SPRINKLER SYSTEM (TYPICAL).
- 9 1/2" COLD WATER UP TO FIXTURE ABOVE.
- 10 1/2" HOT AND COLD WATER UP TO FIXTURE ABOVE.
- 11) 1 1/2" SANITARY UP TO FIXTURE ABOVE.
- 12) 2" SANITARY UP TO FIXTURE ABOVE.
- 13 3" SANITARY UP TO FIXTURE ABOVE.
- 14 1 1/2" VENT UP.
- 15) 2" VENT UP.
- 16 TO BE ABANDONED.
- 17) CONNECT TO EXISTING 2" COLD WATER.
- 18) SEE DIAGRAM / DETAIL DRAWING
- 19 FOR CONTINUATION SEE CIVIL PLANS.
- 20 SEE MECHANICAL DRAWINGS.
- 21) HOT WATER CIRCULATION PUMP CP-1 AT CEILING.
- 22 HOT WATER CIRCULATION PUMP CP-2 AT CEILING.
- 1 1/2" HOT WATER, 1 1/2" COLD WATER, AND 3/4" HOT WATER RECIRCULATING DOWN TO WATER HEATING EQUIPMENT.
- 24 1" CW TO HVAC MAKE-UP
- 25) PROPOSED DRY PIPE SPRINKLER SUPPLY PIPING UP TO ATTIC.
- (26) 3/4" CONDENSATE DRAIN UP
- 27) 3/4" CONDENSATE DRAIN AT UNDERSIDE OF STRUCTURE
- (28) 3/4" CONDENSATE DRAIN THRU WALL. TERMINATE WITH TURNED DOWN ELBOW 0'-6"A.F.G.
- 29 1/2" HOT WATER UP TO DISHWASHER ABOVE
- 30 ASSE 1012 BACKFLOW PREVENTER AT CEILING
- 31) CHECK VALVE WITH AUTOMATIC BALL DRIP

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New Cumberland, PA 17070



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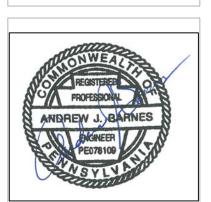
JOB NO. : 343-14 SHEET

P100

three sixteenth inch = one foot
0 2 4 8 16 24

## REFERENCED NOTES:

- 1) 1/2" COLD WATER DOWN
- (2) 1/2" HOT AND COLD WATER DOWN
- (3) 1 1/2" SANITARY DOWN, 1 1/2" VENT
- 4 2" SANITARY DOWN, 1 1/2" VENT
- (5) 2" SANITARY DOWN, 2" VENT
- 6 1 1/2" VENT DOWN
- 7 2" VENT DOWN
- (8) EXTEND SANITARY, COLD WATER, AND HOT WATER TO FIXTURE CONCEALED INSIDE CASEWORK.
- 9 NOT USED..
- 10 PROVIDE SPRINKLER PROTECTION FOR AREA WITHIN BOUNDARY.
- (11) PROPOSED DRY PIPE SPRINKLER SUPPLY PIPING DN AND UP TO ATTIC
- 12) 3/4"COND DRAIN UP & DN
- 13) 1/2"HW (140°F) DN
- (14) REINSTALL EXISTING DISHWASHER. PROVIDE SHUT-OFF VALVE IN WATER SUPPLY.
- REINSTALL EXISTING ICE MAKER. PROVIDE SHUT-OFF VALVE AND ASSE 1022 DUAL CHECK BFP IN WATER SUPPLY.





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GRAPHIC SCALE

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# **REFERENCED NOTES:**

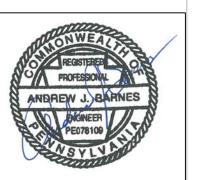
- 1) FAN COIL UNIT. SEE MECHANICAL DRAWINGS
- 2 3/4" CONDESATE DRAIN CONNECTION WITH P-TRAP AND OVERFLOW SWITCH INTERLOCKED WITH FCU OPERATION.
- 3 3/4" CONDENSATE DRAIN IN ATTIC SPACE
- 4) 3/4" CONDENSATE DRAIN DOWN, CONTINUED ON FLOOR BELOW.
- 5 PROPOSED DRY PIPE SPRINKLER SUPPLY PIPING DOWN
- (6) TO SPRINKLER SYSTEM BY SPRINKLER CONTRACTOR
- 7) PROVIDE SPRINKLER PROTECTION FOR AREA WITHIN BOUNDARY.
- 8 INSULATE AND HEAT TRACE P-TRAP

## NEW CONSTRUCTION NOTE:

CONTRACTOR WILL BE REQUIRED TO REMOVE EXISTING WALL FRAMING MATERIAL AND/OR EXISTING ROOF SHEATHING (NOT EXPOSED TO WEATHER) IN THE EXISTING ATTIC AREA, TO INSTALL SOME OF THE NEW SYSTEMS. SEE STRUCTURAL DRAWINGS FOR REQUIREMENTS FOR PROVIDING ADDITIONAL HEADERS AND/OR FRAMING TO MAINTAIN STRUCTURAL INTEGRITY OF THE BUILDING. CONTRACTOR AND/OR SUB—CONTRACTOR CREATING THE OPENING IS RESPONSIBLE FOR PROVIDING ADDITIONAL FRAMING.

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200 Airport Road, Capital City Airport
New Cumberland, PA 17070
717-901-7055 Fax 717-901-7059



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RANKLIN COUNTY, PA

MERCERSBURG ACADEMY
HEALTH CENTER
McFARLAND ROAD
MONTGOMERY TOWNSHIP, FRANKLIN

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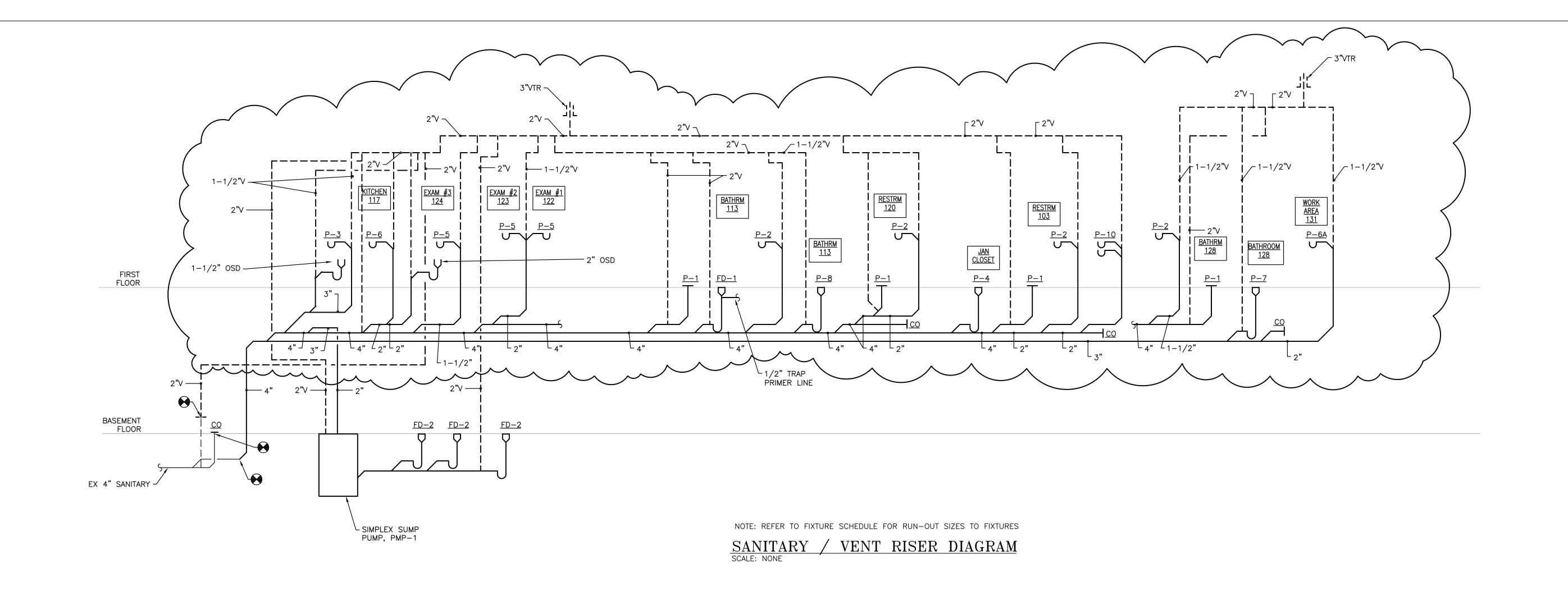
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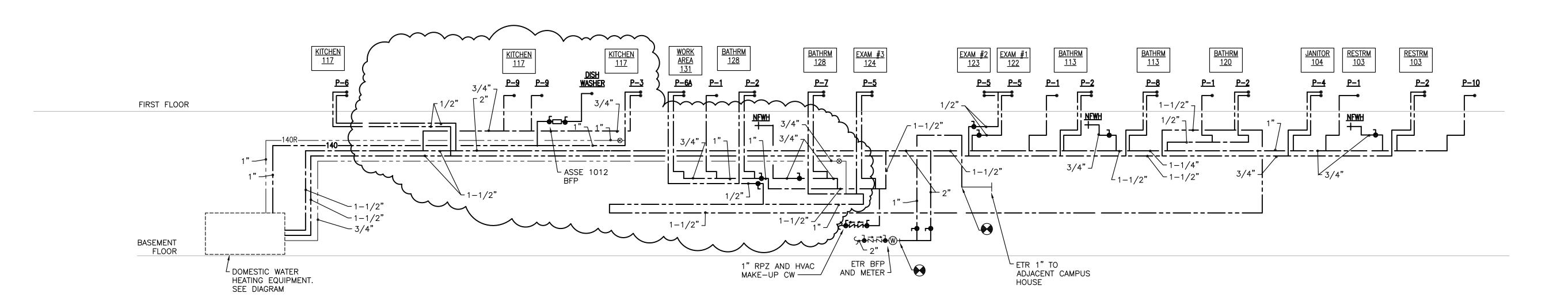
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SHEET

P102

GRAPHIC SCALE

e sixteenth inch = one foot
2 4 8 16 24

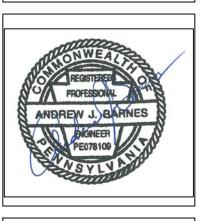




NOTE: REFER TO FIXTURE SCHEDULE FOR RUN-OUT SIZES TO FIXTURES

DOMESTIC WATER RISER DIAGRAM SCALE: NONE

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FRANKLIN COUNTY,

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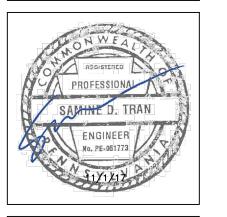
## GENERAL NOTES - ELECTRICAL DEMOLITION

- A. ANY EXISTING ELECTRICAL WORK SHOWN ON THESE DRAWINGS IS INDICATED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE OWNER, ARCHITECT AND ENGINEER IN NO WAY WARRANT OR GUARANTEE EITHER THE ACCURACY OR COMPLETENESS OF THIS INFORMATION. FINAL LOCATIONS AND QUANTITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION.
- B. THE EXTENT OF ELECTRICAL DEMOLITION SHALL BE AS GENERALLY NOTED ON THE DRAWINGS. SHOULD THERE BE ANY QUESTION AS TO THE DISPOSITION OF ANY EXISTING ELECTRICAL WORK, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. THE FINAL DISPOSITION OF SUCH WORK SHALL BE AS DIRECTED BY THE ARCHITECT.
- C. WHEREVER EXISTING ELECTRICAL WORK IS INDICATED TO BE REMOVED, THE FOLLOWING NOTES SHALL APPLY:
- WIRING SHALL BE REMOVED AS NOTED ON DRAWINGS. 2. CONDUIT WHICH REMAINS CONCEALED WITHIN WALLS OR SLABS SHALL BE
- ABANDONED IN PLACE AFTER REMOVAL OF ALL WIRING. 3. WHEREVER EXISTING FLUSH MOUNTED BOXES WILL REMAIN EXPOSED. FURNISH AND
- INSTALL COVERPLATES ON THE EXISTING OUTLET BOXES. 4. ALL SURFACES WHICH ARE DISTURBED BY DEMOLITION UNDER THIS DIVISION SHALL BE PATCHED WITH MATERIALS TO MATCH THE EXISTING SURFACE. PATCHING SHALL MATCH THE EXISTING SURROUNDING SURFACES, AND SHALL BE DONE TO THE COMPLETE SATISFACTION OF THE ARCHITECT.
- D. PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT FROM THE PROJECT, THE CONTRACTOR SHALL DETERMINE WHETHER THE OWNER WISHES TO RETAIN THE MATERIAL. SHOULD THE OWNER DESIRE TO RETAIN AN ITEM, IT SHALL BE MOVED, BY THE CONTRACTOR, TO THE LOCATION ON SITE DIRECTED BY THE OWNER. SHOULD THE OWNER NOT DESIRE TO RETAIN THE ITEM, IT SHALL BE REMOVED FROM THE PROJECT SITE BY THE CONTRACTOR.

## **REFERENCED NOTES:**

- DISCONNECT AND REMOVE LIGHTING FIXTURES, ASSOCIATED LIGHT SWITCHES, WIRING AND CONDUITS BACK TO SOURCE.
- DISCONNECT AND REMOVE RECEPTACLES AND ASSOCIATED BOXES. DISCONNECT ALL HVAC UNITS, APPLIANCES, AND EQUIPMENT. REMOVE ALL DISCONNECT SWITCHES. REMOVE ALL WIRING AND CONDUITS BACK TO SOURCE.
- DISCONNECT AND REMOVE TELECOM/DATACOM JACKS/OUTLETS, ASSOCIATED BOXES, WIRING AND CONDUITS BACK TO SOURCE.
- DISCONNECT AND REMOVE FIRE ALARM WIRELESS COMMUNICATOR TRANSMITTER, INITIATION DEVICES, NOTIFICATION APPLIANCES, ASSOCIATED WIRING AND CONDUITS BACK TO SOURCE. ×------
- 5 EXISTING EARLY STREAMER EMISSION (ESE) LIGHTNING PROTECTION AIR TERMINAL, SUPPORTS, DOWN CONDUCTOR ON ROOF, ASSOCIATED CONDÚCTOR ATTACHMENTS AND MOUNTING ACCESSORIES TO REMAIN. REMOVE DOWN CONDUCTOR ON WALL AND TEMPORARY SUPPORTED TO ALLOW FOR EIFS INSTALLATION.
  - CAREFULLY REMOVE EXISTING EARLY STREAMER EMISSION (ESE) LIGHTNING PROTECTION AIR TERMINAL. SUPPORTS, DOWN CONDUCTOR, ASSOCIATED CONDUCTOR ATTACHMENTS AND MOUNTING ACCESSORIES TO ALLOW FOR ROOF REPLACEMENT. RETAIN ALL MATERIALS FOR REUSE.

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**DEMOLITION** 

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**GRAPHIC SCALE** 

ATTIC FLOOR PLAN - DEMOLITION

SCALE: 3/16" = 1'-0"

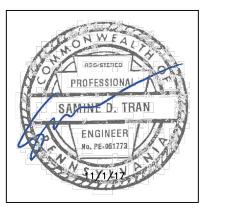
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## **GENERAL NOTES:**

- 1. COORDINATE ALL WORK WITH EXISTING CONDITIONS AND OTHER CONTRACTORS.
- REFER TO LIGHTING FIXTURE SCHEDULE ON E701.
   COORDINATE LIGHTING LAYOUT WITH ARCHITECTURAL REFLECTED CEILING PLAN FOR OTHER CEILING MOUNTED DEVICES AND CEILING DETAILS.
- 4. UNLESS NOTED OTHERWISE, WHERE LIGHTING FIXTURES OR OTHER DEVICES ARE LOCATED WITHIN LAY—IN CEILING TILES, LIGHTING FIXTURES OR OTHER DEVICES SHALL BE CENTERED WITHIN THE CEILING TILES.
- 5. UNLESS NOTED OTHERWISE, CONNECT EMERGENCY LIGHTING UNITS AND EXIT SIGNS TO THE LIGHTING CIRCUIT LOCATED IN THE SAME SPACE AS THE EMERGENCY LIGHTING UNITS AND EXIT SIGNS. CONNECT AHEAD OF SWITCHING AND OCCUPANCY SENSORS

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200 Airport Road, Capital City Airport
New Cumberland, PA 17070
777-901-7055 Hear 177-901-7055



426 SOUTH THIRD STREET
SUITE 101
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(717) 920-2282
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NTER
DAD
TOWNSHIP, FRANKLIN COUNTY,
OR PLAN - LIGHTING

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JOB NO. : 343-14

E101

REFERENCED NOTES:

- 1) WALL MOUNTED UP-DOWN LIGHT TYPE F. LENGTH AS INDICATED. MOUNT 7'-0" AFF.
- CIRCUIT TO B-7 WITH (2)#12, #12G IN 3/4" CONDUIT. PROGRAM CEILING FAN WIRELESS REMOTE IN EACH ROOM TO A DIFFERENT FREQUENCY PER THE MANUFACTURERS INSTRUCTIONS SO THAT NO INTERFERENCE OCCURS.
- UNDER COUNTER LIGHT TYPE G. TOTAL LENGTH AS INDICATED WITH SECTIONS AS REQUIRED TO FIT UNDER CABINETS.
- 4 CONNECT TO CIRCUIT INDICATED WITH (2)#12, #12G IN 3/4" CONDUIT. TYPICAL FOR ALL LIGHTS IN ROOM.
- PROVIDE CIRCUITING TO NIGHT LIGHTS IN TYPE A FIXTURES WITH (2)#12, #12G IN 3/4" CONDUIT. CONNECT AHEAD OF SWITCHING AND OCCUPANCY SENSORS.
- DUAL SWITCHING AT EACH BED LIGHT (TYPICAL). ONE SWITCH TO CONTROL "UP" LIGHT AND ONE TO CONTROL "DOWN" LIGHT. PROVIDE CIRCUITING WITH (2)#12, #12G IN 3/4" CONDUIT VIA OCCUPANCY SENSOR IN ROOM.
- CIRCUIT TO B-19 WITH (2)#12, #12G IN 3/4" CONDUIT VIA ROOF MOUNTED PHOTOCELL (ONE P-CELL TO CONTROL ENTIRE CIRCUIT). PROVIDE PHOTOCELL WITH CONTACT RATED FOR FUNCTION AND LOAD SERVED. LOCATE PHOTOCELL NORTH ON ROOF (NOT SHOWN, ELECTRICAL CONTRACTOR TO LOCATE IN FIELD) AND AT A POSITION NOT AFFECTED BY OTHER LIGHT SOURCES.

FIRST FLOOR PLAN - LIGHTING

SCALE: 3/16" = 1'-0"

GRAPHIC SCALE

sixteenth inch = one foot
2 4 8 16 24

BID SET

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ATTIC FLOOR PLAN - LIGHTING
SCALE: 3/16" = 1'-0"

## **GENERAL NOTES:**

- COORDINATE ALL WORK WITH EXISTING CONDITIONS AND OTHER CONTRACTORS.
   REFER TO LIGHTING FIXTURE SCHEDULE ON E701.
   COORDINATE LIGHTING LAYOUT WITH OTHER CEILING MOUNTED DEVICES.

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LOCATE SWITCH AT AN ACCESSIBLE LOCATION AT LADDER TO ATTIC. SWITCH TO CONTROL ALL LIGHTS IN ATTIC. 2) CIRCUIT TO B-17 WITH (2)#12, #12G IN 3/4" CONDUIT.

REFERENCED NOTES:

# **NEW CONSTRUCTION NOTE:**

CONTRACTOR WILL BE REQUIRED TO REMOVE EXISTING WALL FRAMING MATERIAL AND/OR EXISTING ROOF SHEATHING (NOT EXPOSED TO WEATHER) IN THE EXISTING ATTIC AREA, TO INSTALL SOME OF THE NEW SYSTEMS. SEE STRUCTURAL DRAWINGS FOR REQUIREMENTS FOR PROVIDING ADDITIONAL HEADERS AND/OR FRAMING TO MAINTAIN STRUCTURAL INTEGRITY OF THE BUILDING. CONTRACTOR AND/OR SUB—CONTRACTOR CREATING THE OPENING IS RESPONSIBLE FOR PROVIDING ADDITIONAL FRAMING.

BASEMENT FLOOR PLAN - ELECTRICAL

SCALE: 3/16" = 1'-0"

GENERAL NOTES:

1. ALL PENETRATIONS SHALL BE SEALED.

2. COORDINATE EQUIPMENT AND DEVICE LOCATIONS WITH EXISTING AND MODIFIED CONDITIONS.

## **REFERENCED NOTES:**

DISCONNECTS COME WITH HYDRONIC UNIT HEATER. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR AND MAKE CONNECTION. PROVIDE DISCONNECTS FOR EF-3, WH-1, CP-1, CP-2, GLYCOL PUMP, AND AIR

(2) PROVIDE JUNCTION BOX AND RECONNECT AS INDICATED IN REFERENCED NOTE 4 ON E601.

PROVIDE GALVANIZED CHANNEL STRUTS SECURED FROM CONCRETE GRADE BEAM TO CEILING TO ALLOW FOR PANEL MOUNTING AS SHOWN.

COORDINATE WET PIPE AND DRY PIPE SPRINKLERS WITH PLUMBING/FIRE PROTECTION CONTRACTOR FOR QUANTITY, LOCATIONS AND CONNECTIONS TO FIRE ALARM SYSTEM.

5 PUMP'S VFD CONTROL PANEL PROVIDED BY MECHANICAL CONTRACTOR. VFD CONTROL PANEL COMES WITH DISCONNECT. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR AND MAKE CONNECTION.

6 AIR COMPRESSOR IS FOR DRY PIPE SPRINKLER. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH PLUMBING/FIRE PROTECTION CONTRACTOR.

CONNECT MAIN GROUND BAR TO GROUNDING COUNTERPOISE. LOCATE GROUNDING COUNTERPOISE OUTSIDE AS CLOSE AS POSSIBLE TO MAIN GROUND BAR. BOND COUNTERPOISE TO EXISTING LIGHTNING PROTECTION GROUND AS REQUIRED BY NEC. SEE GROUNDING DETAIL ON E601 FOR REQUIREMENTS.

(8) BUILDING IS FULLY SPRINKLED. PARTIAL COVERAGE SMOKE DETECTION IS FOR ADDED PROTECTION.

PROVIDE UNDERGROUND BUILDING SERVICE ENTRANCE CONDUIT FROM PANEL MDP TO 5' OUTSIDE OF BUILDING, CONDUIT SHALL BE BURDED 18" MINIMULA DELOW FLOTO WE SERVICE AND ADDRESS OF THE PROPERTY OF THE BUILDING. CONDUIT SHALL BE BURIED 18" MINIMUM BELOW EARTH IN CRAWL SPACE. INSTALL OWNER FURNISHED WIRING IN CONDUIT TO PANEL MDP. COUPLE CONDUITS. MAKE CONNECTIONS FINAL CONNECTION AT PANEL MDP. PROVIDE MATCHING LUG SIZE AND TYPE. PROVIDE TESTING, INSPECTION, AND REPORT. SEE E601 FOR WIRING AND CONDUIT REQUIREMENTS. REFER TO CIVIL DRAWINGS AND COORDINATE OUTDOOR CONDUIT LOCATION WITH OWNER.

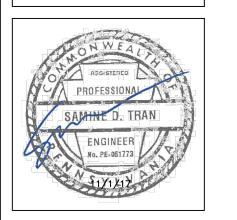
OWNER TO PROVIDE OUTDOOR TRANSFORMER, PAD, NECESSARY PULL BOXES, ASSOCIATED OUTSIDE UNDERGROUND WIRING AND CONDUITS. OWNER TO PROVIDE WIRING AT FULL/CONTINUOUS LENGTH FROM TRANSFORMER TO PANEL MDP.

INTERMATIC ET8215C ELECTRONIC TIME SWITCH WITH 30A DPST CONTACT, 240V FOR SITE LIGHTING. CONNECT TO CIRCUIT INDICATED WITH 2#10, 1#10G IN 3/4" CONDUIT. PROVIDE 1" CONDUIT WITH PULL STRING FROM TIME SWITCH TO 5' UNDERGROUND OUTSIDE OF THE BUILDING. INSTALL OWNER FURNISHED WIRING TO TIME SWITCH. COUPLE CONDUITS. MAKE FINAL CONNECTION AT TIME SWITCH. PROGRAM TIME SWITCH. PROVIDE TESTING, INSPECTION, AND REPORT. REFER TO CIVIL DRAWINGS AND COORDINATE OUTDOOR CONDUIT LOCATION WITH OWNER.

OWNER TO PROVIDE LED SITE LIGHTING FIXTURES, POLES, BASES, FOUNDATIONS, NECESSARY PULL BOXES, ASSOCIATED OUTSIDE WIRING AND CONDUITS. OWNER TO PROVIDE WIRING AT FULL/CONTINUOUS LENGTH FROM CLOSEST LIGHT POLE TO TIME SWITCH.

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ELECTRICAL

BASEMENT FLOOR

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FIRST FLOOR PLAN - ELECTRICAL

SCALE: 3/16" = 1'-0"



GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, CIRCUITS SHOWN SHALL BE FED FROM PANEL B.

2. ALL PENETRATIONS SHALL BE SEALED.

3. COORDINATE MOUNTING HEIGHT, QUANTITY AND LOCATIONS OF RECEPTACLES AND TELECOM/DATACOM OUTLETS WITH OWNER, TELECOM/DATACOM INSTALLER AND FURNITURE/CASEWORK INSTALLER.

4. DEVICE BACK BOXES ON OPPOSITE SIDES OF WALL (WITHIN WALL CAVITY) SHALL BE STAGGERED (DO NOT MOUNT BACK TO BACK). SEAL ALL BOX PERIMETERS WITH ACOUSTICAL SEALANT.

COORDINATE WITH ARCHITECTURAL PLANS FOR EXISTING PLASTER WALLS TO REMAIN. SURFACE MOUNT DEVICE BOX IS PERMITTED WHERE RECESSED DEVICE BOX CANNOT BE INSTALLED IN EXISTING PLASTER

## **REFERENCED NOTES:**

COORDINATE LOCATION AND QUANTITY OF BOXES WITH SECURITY/ACCESS VENDOR. PROVIDE POWER, WIRING AND CONDUITS AS REQUIRED. INSTALL BOXES IN ACCESSIBLE LOCATION UP HIGH AND OUT OF SIGHT AS

DISCONNECT COMES INTEGRAL WITH UNIT. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR. RUN CONDUIT UNDERGROUND AND THROUGH BASEMENT WALL TO PANEL. PROVIDE LINK SEAL FOR WALL

(3) PROVIDE UL LISTED METAL BOX FOR CEILING FAN. SEE E101 FOR CONTROL.

(4) COORDINATE MOUNTING HEIGHT OF TV BOX AND RECEPTACLE WITH CASEWORK INSTALLER.

PROVIDE 4" CONDUIT WITH PULL STRING FROM BASEMENT TO ABOVE ACCESSIBLE CEILING. COORDINATE LOCATION WITH SECURITY/ACCESS VENDOR.

6 PROVIDE WEATHERPROOF BOX WITH COVER. PROVIDE 3/4" CONDUIT WITH PULL STRING TO ACCESSIBLE CEILING. COORDINATE LOCATION AND MOUNTING HEIGHT WITH SECURITY/ACCESS VENDOR.

PROVIDE CEILING BOX TO ALLOW FOR ACCESS POINT CONNECTION. COORDINATE LOCATION WITH OWNER AND TELECOM/DATACOM INSTALLER. FOR LOCATION WITH HARD CEILING, PROVIDE PULL STRING IN CONDUIT TO NEAREST ACCESSIBLE CEILING.

(8) PROVIDE MATCHING PLUG AND CORD FOR DISHWASHER.

9 PROVIDE RECEPTACLE WITH MATCHING PLUG AND CORD FOR DRYER. CONNECT TO CIRCUIT INDICATED WITH 3#8, #10G IN 3/4"C,

COORDINATE WITH PLUMBING/FIRE PROTECTION CONTRACTOR FOR OUTDOOR ALARM BELL/INDICATOR. CONNECT OUTDOOR ALARM BELL/INDICATOR TO CIRCUIT INDICATED WITH 2#12, #12G IN 3/4"C.

DISCONNECT COMES WITH UNIT. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR AND MAKE CONNECTION.

(12) SURFACE MOUNTED. RUN CONDUIT FROM CRAWL SPACE BELOW.

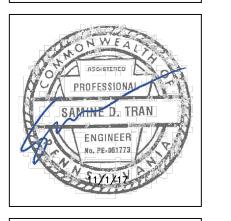
FOR RECEPTACLES AND TELECOM OUTLETS IN THIS ROOM, RUN CONDUITS THROUGH CRAWL SPACE AND BASEMENT TO SOURCES.

(14) CONNECT FAN TO OPERATE VIA OCCUPANCY SENSOR IN ROOM WITH 2#12, #12G IN 3/4"C.

COORDINATE LOCATIONS OF NURSE CALL CENTRAL UNIT AND ANNUNCIATOR WITH OWNER. CENTRAL UNIT AND ANNUNICATOR CAN BE INTEGRATED IN THE SAME ENCLOSURE RECESSED IN WALL. PROVIDE NURSE CALL SYSTEM WITH TONE AND INDICATING LIGHTS (NO VOICE OR TELEPHONE INTEGRATION) TO MEET REQUIREMENTS FOR CATEGORY 2 HEALTH CARE FACILITY. 

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FLOOR PLAN

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2. ALL PENETRATIONS SHALL BE SEALED.

## **REFERENCED NOTES:**

- 1) MOUNT SWITCH AT ACCESSIBLE LOCATION WITHIN SIGHT OF FAN.
- MOUNT SWITCH AT ACCESSIBLE LOCATION WITHIN SIGHT OF FAN. CONNECT FAN VIA VFD. COORDINATE VFD LOCATION WITH MECHANICAL CONTRACTOR.
- UL LISTED FIRE ALARM WIRELESS COMMUNICATOR TRANSMITTER WITH ANTENNA, BATTERY, AND POWER SUPPLY ADAPTER. PROVIDE RECEPTACLE IN ENCLOSURE TO ALLOW FOR POWER SUPPLY ADAPTER CONNECTION. ENCLOSURE AND POWER SUPPLY ADAPTER AS REQUIRED BY TRANSMITTER'S MANUFACTURER. CONNECT TRANSMITTER TO CIRCUIT INDICATED WITH 2#12, #12G IN 3/4 CONDUIT. FIRE ALARM CABLING TO FIRE ALARM CONTROL PANEL SHALL BE AS RECOMMENDED BY MANUFACTURER AND SHALL BE IN CONDUITS.
- BASE BID:

  EXISTING LIGHTNING PROTECTION AIR TERMINAL AND CONDUCTOR. REATTACH DOWN CONDUCTOR TO WALL WITH NEW WALL SUPPORT STRAPS.
- ATTACHMENTS. PROVIDE NEW ATTACHMENTS AND MOUNTING ACCESSORIES AS REQUIRED. CONNECTORS TO ALLOW FOR BONDING TO EXHAUST FAN'S METAL HOUSING. MATERIAL (ALUMINUM OR

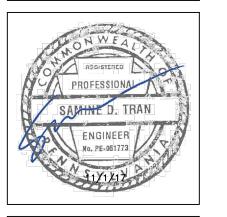
REINSTALL EXISTING LIGHTNING PROTECTION AIR TERMINAL, SUPPORTS, DOWN CONDUCTOR, AND ASSOCIATED

- COPPER) SHALL BE THE SAME AS EXISTING GROUNDING CONNECTION POINT AT EXISTING AIR TERMINAL.
- 6 MOUNT DISCONNECT IN ACCESSIBLE LOCATION. CONNECT FAN VIA THERMOSTAT. COORDINATE THERMOSTAT LOCATION WITH MECHANICAL CONTRACTOR.
- DISCONNECTS COME WITH HYDRONIC UNIT HEATERS. COORDINATE LOCATIONS AND INSTALLATION REQUIREMENTS WITH MECHANICAL CONTRACTOR AND MAKE CONNECTION.
- (8) MOUNT SWITCH AT ACCESSIBLE LOCATION WITHIN SIGHT OF FCU.

## **NEW CONSTRUCTION NOTE:**

CONTRACTOR WILL BE REQUIRED TO REMOVE EXISTING WALL FRAMING MATERIAL AND/OR EXISTING ROOF SHEATHING (NOT EXPOSED TO WEATHER) IN THE EXISTING ATTIC AREA, TO INSTALL SOME OF THE NEW SYSTEMS. SEE STRUCTURAL DRAWINGS FOR REQUIREMENTS FOR PROVIDING ADDITIONAL HEADERS AND/OR FRAMING TO MAINTAIN STRUCTURAL INTEGRITY OF THE BUILDING. CONTRACTOR AND/OR SUB-CONTRACTOR CREATING THE OPENING IS RESPONSIBLE FOR PROVIDING ADDITIONAL FRAMING.

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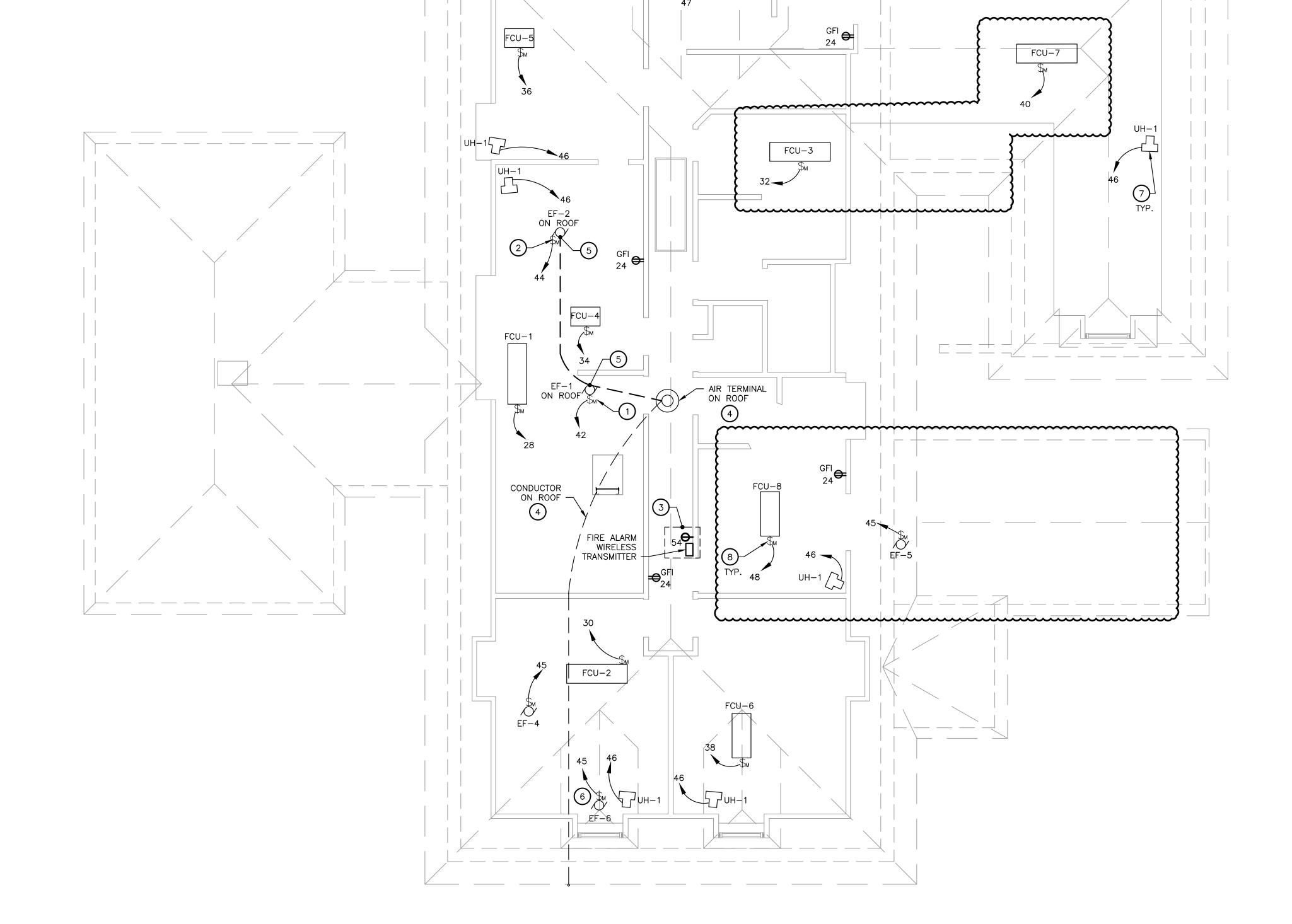




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ATTIC FLOOR PLAN - ELECTRICAL

SCALE: 3/16" = 1'-0"

	PANEL NAME		TYPE: SQUARE D TYPE NQ				LOCATION: BASEMENT					
			CIRCUIT BREAKER MOUNTING SPACE: 42 POLES					VOLTAGE: 120/240V, 1-PHASE, 3-WIRE PANEL MOUNTING: SURFACE				
	Α	MAIN BU	MAIN BUS RATING: 225 AMPS									
	^	MAIN LU	GONLY					PANEL I	ENCLOSURE (NEMA): 1			
		NEC ARC	C-FLASH LA	BELLED				PANEL I	VIIN. A. I. C. RATING: 10K			
CIR.	DESCRIPTION	CIR.	LO	AD - VA		LOAD - VA		LOAD - VA		CIR.	DESCRIPTION	CIF
No.	DESCRIPTION	BKR.	AØ	ВØ	1	AØ	BØ	BKR.	DESCRIPTION	No		
1	LIGHTING BASEMENT	20/1	500		1	2400		40/2	DRY ER 132	2		
3	LIGHTING BASEMENT	20/1		500	1		2400		COORDINATE NAMEPLATE DATA	4		
5	LIGHTING BASEMENT	20/1	500		1	960		20/1	WASHER 132	6		
7	LIGHTING BASEMENT	20/1		500	1		1440	25/2	PUMP P-1	8		
9	REC BASEMENT	20/1	900			1440				10		
11	REC BASEMENT TELECOM	20/1		360	1		1440	25/2	PUMP P-2	12		
13	REC BASEMENT DATA RACK UPS	20/1	500		1	1440				14		
15	REC BASEMENT MEDIA CAB	20/1		500	1		1200	20/2	PUMP P-3	16		
17	HYDRO HEATER UH-2 BSMNT	20/1	120		1	1200		1		18		
19	WATER HEATER WH-1, CP-1, CP-2	20/1		840	1		200	20/2	SITE LIGHTING, TIME CLOCK	20		
21	SUMP PUMP	20/1	864		1	200		1		22		
23	REC OUTDOOR	20/1		180	1		864	20/1	DRY PIPE SPRINKLER AIR COMPRESS.	24		
25	GLY COL PUMP	20/1	864		1	1176		20/1	EF-3	26		
27	DUPLEX CONDENSATE PUMPS	20/1		1728	3		100	L 20/1	DRY PIPE SPRINKLER BELL/INDICATOR	28		
29	SPARE	20/1	$\overline{}$	<del>~~~</del>	1				SPACE	30		
31	SPACE				1				SPACE	32		
33	SPACE				1				SPACE	34		
35	SPACE				1				SPACE	36		
37	SPACE				1	200		20/1	NURSE CALL PANEL	38		
39	SPACE				1		200	20/1	ACCESS/SECURITY PANEL	40		
41	SPACE				1	500		20/1	ACCESS/SECURITY ACCESSORIES	42		
		•	4248	4608	1	9516	7844		•			
CONNE	CTED LOAD:				X	ISOLATED	NEUTRAL E	BUS	L PROVIDE LOCK-ON CLIP			
ΑØ	13.76 KVA				X	EQUIPMEN	T GROUND	BUS				
ВØ	12.45 KVA	<del>_</del>				NOTES:						
TOTAL	26.22 KVA	_						_	OMPLIANCE WITH THE NEC. PROVIDE AF	RC-		
DM D	17.04 KVA		FLASH LABEL IN ACCORDANCE WITH THE NEC.									

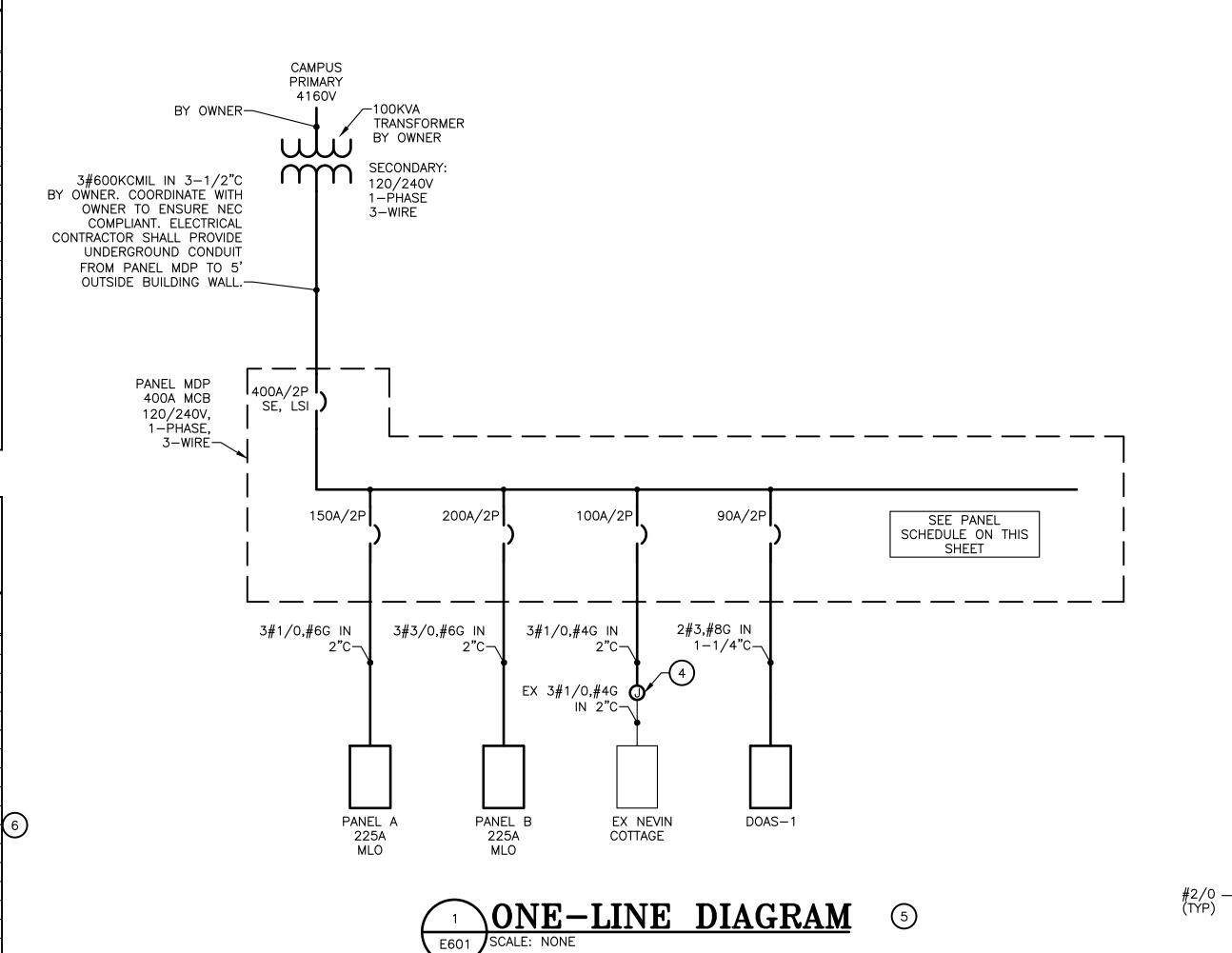
В		CIRCUIT MAIN BU MAIN LU	TYPE: SQUARE D TYPE NQ CIRCUIT BREAKER MOUNTING SPACE: 54 POLES MAIN BUS RATING: 225 AMPS MAIN LUG ONLY NEC ARC-FLASH LABELLED					LOCATION: JANITOR 104  VOLTAGE: 120/240V, 1-PHASE, 3-WIRE  PANEL MOUNTING: RECESSED  PANEL ENCLOSURE (NEMA): 1  PANEL MIN. A. I. C. RATING: 10K			
CIR.	DESCRIPTION	CIR.	LO	AD - VA	LO	AD - VA	CIR.	DESCRIPTION	CIR.		
No.	DEDOTAL FION	BKR.	AØ	BØ	AØ	BØ	BKR.	BESSIAI FISIA	No.		
1	LIGHTING FIRST FLOOR	20/1	1510		1200		20/1	REC 117 DISHWASHER	2		
3	LIGHTING FIRST FLOOR	20/1		1350		720	20/1	REC 118	4		
5	LIGHTING FIRST FLOOR	20/1	1174		1080		20/1	REC 120, 121	6		
7	CELING FANS 108, 109, 110	20/1		228		1440	20/1	REC 122, 123	8		
9	SPARE	20/1			1080		20/1	REC 124, 125	10		
11	SPA RE	20/1				1440	20/1	REC 126	12		
13	REC 119	20/1	720		1080		20/1	REC 126, 128, 129	14		
15	REC COPIER 119	20/1		1440		1080	20/1	REC 131	16		
17	LIGHTING ATTIC	20/1	100		1260		20/1	REC 131	18		
19	LIGHTING EXTERIOR, PHOTOCELL	20/1		45		720	20/1	REC 132, 133	20		
21	REC 100, 101, 102	20/1	1260		1440		20/1	REC 134	22		
23	REC 103, 104, 105, 107	20/1		1080		540	20/1	REC ATTIC	24		
25	REC 107, 108	20/1	1080		900		20/1	REC 131	26		
27	REC 109, 110	20/1		1260		1080	15/1	FCU-1	28		
29	REC 111	20/1	1260		1080		15/1	FCU-2	30		
31	REC 113, 114	20/1		900		1080	15/1	FCU-3	32		
33	REC 112, 115	20/1	900		360		15/1	FCU-4	34		
35	REC 117	20/1		720		360	15/1	FCU-5	36		
37	REC 117	20/1	720		600		15/1	FCU-6	38		
39	REC 117 REFRIGERATOR	20/1		720		1272	15/1	FCU-7	40		
41	REC 117 ICE MA CHINE	20/1	1440		696		20/1	EF-1 TOILETS & JC	42		
43	DISHWA SHER	20/1		600		696	20/1	EF-2 ISOLATION AREA	44		
45	EF-4, EF-5, EF-6	20/1	888		840		20/1	HYDRO HEATERS CUH-1, UH-1	46		
47	SF-1	20/1		696		1080	15/1	FCU-8	48		
49	SPA RE	20/1					20/1	SPARE	50		
51	SPA RE	20/1					20/1	SPARE	52		
53	SPA RE	20/1			500		L 20/1	FACP AND WIRELESS TRANSMITTER	54		
	1	ļ	11052	9039	12116	11508		1			
ONNE	CTED LOAD:				X ISOLATED	NEUTRAL E	JUS	L_PROVIDE LOCK-ON CLIP			
AØ	23.17 KVA			-	X EQUIPMENT	Γ GROUND I	BUS				

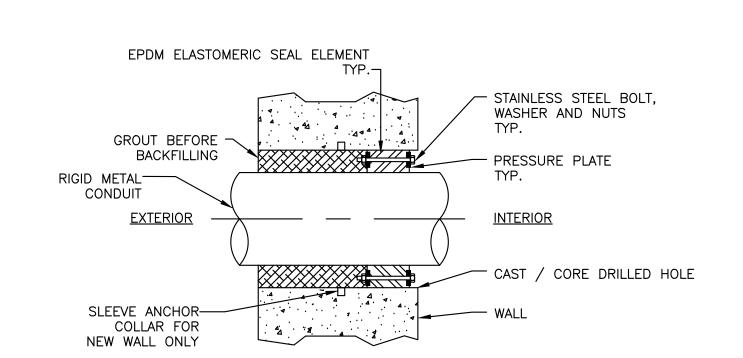
43.72 KVA

28.41 KVA

GROUNDING AND BONDING IN COMPLIANCE WITH THE NEC. PROVIDE ARC-

FLASH LABEL IN ACCORDANCE WITH THE NEC.





TYPICAL CONCRETE WALL INK-SEAL DETAIL

## **REFERENCED NOTES:**

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IN COUNTY, ACADEMY

DIAGRAM

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SHEET

\_NEUTRAL BUS

GROUND BUS

— TOP OF ROD 18" BELOW FINISH

- EXOTHERMIC WELD (TYP.)

GRADE (TYP)

-10' MIN BETWEEN GROUND RODS (TYP) #2/0 BARE GROUND (TYP)

— GROUND ROD (TYP) 3/4" DIA. X 10'-0" LONG

1" PVC

W/ #2/0 -INSULATED

GROUND

OUTER EDGE OF BLDG.

2'-0" MIN. \_

#2/0 BARE GROUND TO LIGHTING PROTECTION GROUND ROD

CONDUIT **TERMINATION** 

#2/0 INSULATED GROUND - 1"C

(TYP)

**GROUNDING DETAIL** ①

- 1) GROUNDING SHALL COMPLY WITH NEC ARTICLE 250.32.
- PROVIDE #3/0 AWG GREEN INSULATED COPPER GROUND CONDUCTOR IN 1" CONDUIT TO COLD WATER PIPE SERVICE ENTRANCE.
- PROVIDE #3/0 AWG GREEN INSULATED COPPER GROUND CONDUCTOR IN 1" CONDUIT TO TELECOMMUNICATIONS GROUND BAR (TGB).
- PROVIDE JUNCTION BOX SIZED PER NEC. PROVIDE UL LISTED SPLICES TO ALLOW FOR CONNECTION TO EXISTING CIRCUIT WIRING.
- 5 COORDINATE EQUIPMENT LUG AND WIRE SIZES. PROVIDE REDUCING LUGS AS REQUIRED.
- 6 SITE LIGHTING PROVIDED BY OWNER. SEE REFERENCED NOTE 10 ON E201 FOR RESPONSIBILITY AND REQUIREMENTS.



D WATER SERVICE

2

## **Section 1: Project Information**

Energy Code: 2009 IECC Project Title: Mercersburg Academy Health Center

Project Type: New Construction

Construction Site: McFarland Road

Owner/Agent: Mercersburg Academy Mercersburg, PA 17236

Designer/Contractor: Century Engineering 200 Airport Road New Cumberland, PA 17070 717-901-7055

## **Section 2: Interior Lighting and Power Calculation**

	A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B x C)
Healthcare-Clinic		5326	1	5326
		To	tal Allowed Watts	= 5326

#### **Section 3: Interior Lighting Fixture Schedule**

Α	В	C	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps/ Fixture	# of Fixtures	Fixture Watt.	(C X D)
Healthcare-Clinic (5326 sq.ft.)				
LED 1: A: 2X2: Other:	1	20	31	620
LED 2: B: 3' PATIENT LIGHT: Other:	1	10	48	480
LED 3: C: 2X2: Other:	1	16	27	432
LED 4: C2: 2X2: Other:	1	17	45	765
LED 5: D: 6"DIA DOWNLIGHT: Other:	1	18	15	270
LED 6: D2: 6"DIA DOWNLIGHT: Other:	1	4	15	60
LED 7: E: 6"DIA DOWNLIGHT: Other:	1	34	16	544
LED 8: F: LINEAR WALL: Other:	1	26	12	312
LED 9: G: UNDER CABINET: Other:	1	46	6.1	280.6
LED 10: H: 6" DIA SURFACE: Other:	1	6	14	84
LED 11: J: 24" DIA PENDANT: Other:	1	6	37	222
	Tot	al Propose	ed Watts =	4070

#### **Section 4: Requirements Checklist**

## Lighting Wattage:

☐ 1. Total proposed watts must be less than or equal to total allowed watts.

<b>Allowed Watts</b>	<b>Proposed Watts</b>	Complies
5326	4070	YES

#### Controls, Switching, and Wiring: ☐ 2. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to

3. Daylight zones have individual lighting controls independent from that of the general area lighting.

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## Exceptions:

Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device. Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.

## 4. Independent controls for each space (switch/occupancy sensor).

Exceptions: Areas designated as security or emergency areas that must be continuously illuminated.

#### ☐ Lighting in stairways or corridors that are elements of the means of egress. ☐ 5. Master switch at entry to hotel/motel guest room.

☐ 6. Individual dwelling units separately metered. 7. Medical task lighting or art/history display lighting claimed to be exempt from compliance has a control device independent of the control of the nonexempt lighting.

#### ☐ 8. Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either controlling all luminaires, dual switching of alternate rows of luminaires, alternate luminaires, or alternate lamps, switching the middle lamp luminaires independently of other lamps, or switching each luminaire or each lamp.

## Exceptions:

Only one luminaire in space.

An occupant-sensing device controls the area ☐ The area is a corridor, storeroom, restroom, public lobby or sleeping unit.

☐ Areas that use less than 0.6 Watts/sq.ft.

## 9. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.

☐ Sleeping units, patient care areas; and spaces where automatic shutoff would endanger safety or security.

## ☐ 10.Photocell/astronomical time switch on exterior lights.

☐ Lighting intended for 24 hour use.

☐ 11. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).

☐ Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

## **Section 5: Compliance Statement**

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COMcheck Version 4.0.7.0 and to comply with the mandatory requirements in the Requirements Checklist.

Data filename: H:\2016\FACILITIES\163027.00 Mercersburg AHC\Elec\Design\Comcheck\163027 Mercersburg Academy - REVISED FOR

JOHN FUNKHOUSER		10/23/17
Name - Title	Signature	Date



#### **Section 1: Project Information**

Energy Code: 2009 IECC Project Title: Mercersburg Academy Health Center

Project Type: New Construction Exterior Lighting Zone: 1 (Developed rural area)

Construction Site: Owner/Agent: McFarland Road Mercersburg Academy Mercersburg, PA 17236

Designer/Contractor Century Engineering 200 Airport Road New Cumberland, PA 17070 717-901-7055

## Section 2: Exterior Lighting Area/Surface Power Calculation

A Exterior Area/Surface	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B x C)	F Proposed Watts
Main entry	3 ft of door width	20	Yes	60	15
Other door (not main entry)	6 ft of door width	20	Yes	120	30
		Total Trac	lable Watts* =	180	45
		Total Allowed Watts =		180	
	Total Allow	ed Suppleme	ntal Watts** =	500	

#### \* Wattage tradeoffs are only allowed between tradable areas/surfaces. \*\* A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces

#### Section 3: Exterior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	(C X D)
Main entry (3 ft of door width): Tradable Wattage				
LED 1: AA: 6"DIA DOWNLIGHT: Other:	1	1	15	15
Other door (not main entry) (6 ft of door width): Tradable Wattage				
LED 2: AA: 6"DIA DOWNLIGHT: Other:	1	2	15	30
	Total Tradab	ole Propose	ed Watts =	45

#### **Section 4: Requirements Checklist**

☐ 1. Within each non-tradable area/surface, total proposed watts must be less than or equal to total allowed watts. Across all tradable areas/surfaces, total proposed watts must be less than or equal to total allowed watts. Compliance: Passes.

#### Controls, Switching, and Wiring:

☐ 2. All exemption claims are associated with fixtures that have a control device independent of the control of the nonexempt lighting.

☐ 3. Lighting not designated for dusk-to-dawn operation is controlled by either a a photosensor (with time switch), or an astronomical time

4. Lighting designated for dusk-to-dawn operation is controlled by an astronomical time switch or photosensor. ☐ 5. All time switches are capable of retaining programming and the time setting during loss of power for a period of at least 10 hours.

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## Exterior Lighting Efficacy:

6. All exterior building grounds luminaires that operate at greater than 100W have minimum efficacy of 60 lumen/watt.

Lighting that has been claimed as exempt and is identified as such in Section 3 table above. Lighting that is specifically designated as required by a health or life safety statue, ordinance, or regulation.

■ Emergency lighting that is automatically off during normal building operation. Lighting that is controlled by motion sensor.

## Section 5: Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COMcheck Version 4.0.6.0 and to comply with the mandatory requirements in the Requirements Checklist.

JOHN FUNKHOUSER		10/23/17
Name - Title	Signature	Date

#### MOUNTING | REMARKS FIXT. ID MANUFACTURER AND MODEL# DESCRIPTION VOLTAGE OUTPUT TYPE WATTAGE /CCT 2'X2' RECESSED LED FIXTURE, CURVED DROPPED MATTE WHITE ACRYLIC DIFFUSER AND SIDE VISA LIGHTING PANELS, TOOL-LESS CAPTIVE SWING DOWN LENS, INPUT 31 RECESSED 30K UNITY SERIES 83 CRI, 0-10V DIMMING, AMBER LED NIGHT 3' WALL MOUNTED LED MEDICAL LIGHT FIXTURE SEPARATELY SWITCHED UP AND DOWN LIGHT, JNIVERSAI DAY-O-LITE INPUT 48 STEEL HOUSING AND REFLECTOR WITH DIFFUSE 825 DOWN LED |MEDIL-PL PATIENT LIGHT **SURFACE** 120 - 277POLYCARBONATE LENSES, 80+ CRI, 0-10V 30K DIMMING, WHITE ENAMEL FINISH 2'X2' RECESSED LED FIXTURE, STEEL HOUSING, PHILIPS - DAY-BRITE 3000 30K 120 INPUT 27 LED | RECESSED SMOOTH CENTER DIFFUSER, 80 CRI, 0-10V FLUXGRID LED SERIES DIMMING 2'X2' RECESSED LED FIXTURE, STEEL HOUSING PHILIPS - DAY-BRITE 120 INPUT 45 LED RECESSED SMOOTH CENTER DIFFUSER, 80 CRI, 0-10V FLUXGRID LED SERIES 30K DIMMING 6" DIA. LED RECESSED DOWNLIGHT, CLEAR PHILIPS - LIGHTOLIER REFLECTOR AND WHITE FLANGE, MEDIUM INPUT 15 LED RECESSED 27K LYTEPROFILE SERIES DISTRIBUTION WITH 60° CUTOFF, 80 CRI, 0-10V 120-277 DIMMING 6" DIA. LED RECESSED DOWNLIGHT, CLEAR PHILIPS — LIGHTOLIER REFLECTOR AND WHITE FLANGE, MEDIUM INPUT 15 RECESSED LED LYTEPROFILE SERIES DISTRIBUTION WITH 60° CUTOFF, 80 CRI, 0-10V 120-277 DIMMING 6" DIA. LED RECESSED DOWNLIGHT, IC PHILIPS - LIGHTOLIER (INSULATION CONTACT) RATED, CLEAR REFLECTOR UNIVERSAL INPUT 16 RECESSED LYTECASTER SERIES AND WHITE FLANGE, MEDIUM DISTRIBUTION WITH 27K 70° CUTOFF, 80 CRI, 0-10V DIMMING WALL MOUNTED UP AND DOWN LIGHT LED FIXTURE, 2-3/4" W X 4-1/2" H, LENGTH AS INPUT 12 | 750/FT UP DAY-0-LITE INDICATED ON E101, EXTRUDED ALUMINUM **SURFACE** WATTS PER | 525/FT DN | LED PROFILE SERIES LED HOUSING AND REFLECTOR WITH MACHINED END 120-277 7'-0"AFF FOOT CAPS, OPAL ACRYLIC DROP LENS, WHITE FINISH, l 80 CRI 6", 12", 24", 36" AND .79" X .79" LED UNDER CABINET LIGHTING 48" LENGTHS AVAILABLE FIXTURE. LENGTH AS INDICATED ON E101, INPUT 6.1 ELITE LIGHTING 312/FT PROVIDE ALL MOUNTING LED SURFACE EXTRUDED ALUMINUM HOUSING WITH INTEGRATED 120 WATTS PER |ESL-LED SERIES 3ÓK CLIPS, CORDS AND MINI LED UNDER CABINET LIGHT DIFFUSER, INTEGRAL DRIVER, CORD LINKABLE, FOOT CONNECTORS AS WHITE FINISH REQUIRED 7" DIA. ROUND LED SLIM SURFACE MOUNTED PHILIPS LIGHTOLIER 120 INPUT 14 SURFACE FIXTURE, WET LISTED, WHITE TRIM, 5/8" THICK, 30K SLIMSURFACE LED SERIES 0-10V DIMMING, ENERGY STAR, 80 CRI 24" DIAMETER X 9" DEEP PENDANT MOUNTED LED FIXTURE, 24" OVERALL HEIGHT (MODIFIED FROM 31"). DOUBLE WALL DRUM FEATURES AN BROWNLEE LIGHTING UNIVERSAI PENDANT INPUT 37 EXTERIOR RING WITH WHITE LINEN FABRIC 27K 2608 LED SERIES 120-277 BONDED TO A WHITE ACRYLIC WALL WITH A WHITE ACRYLIC INNER RING AND DIFFUSER. SINGLE STEM PENDANT WITH WHITE FINISH 54" DIA. 5-BLADE CEILING FAN. 12.25" HIGH MINKA AIRE AND 3.5" DOWN ROD. BRONZE FINISH BLADES CEILING INPUT (MAX) ULTRA-MAX CEILING FAN 120 WITH BRONZE FINISHED HOUSING. WALL MOUNTED **SURFACE** FAN 76 F588-SP-ORB CONTROLLER WCS212 AND HAND HELD REMOTE INCLUDED. " DIA. LED RECESSED DOWNLIGHT, IC PHILIPS - LIGHTOLIER (INSULATION CONTACT) RATED, CLEAR REFLECTOR |UNIVERSAI LED RECESSED INPUT 16 LYTECASTER SERIES AND WHITE FLANGE, MEDIUM DISTRIBUTION WITH 120-277 70° CUTOFF, 80 CRI, 0-10V DIMMING LED EXIT SIGN WITH TWO UNIT (SIDE) MOUNTED LED LAMP HEADS, WHITE THERMOPLASTIC HOUSING WITH RED LETTERS, UNIVERSAL 120 INPUT 2.5 LED | SURFACE TCX LED COMBINATION SERIES MOUNTING, NI-CAD BATTERY WITH REMOTE CAPACITY, SELF DIAGNOSTICS OUTDOOR RATED REMOTE LED DUAL LAMP HEAD, SURFACE X2 TCX LED COMBINATION SERIES 3.6VDC LED WHITE THERMOPLASTIC HOUSING, GRAY FINISH DOUBLE OUTDOOR REMOTE HEAD LED EMERGENCY LIGHTING UNIT WITH TWO UNIT EVENLITE MOUNTED LED LAMP HEADS, WHITE 120 LED | SURFACE THERMOPLASTIC HOUSING, LEAD CALCIUM TEBL SERIES BATTERY, SELF DIAGNOSTICS

LIGHTING FIXTURE SCHEDULE

# **LIGHTING FIXTURE SCHEDULE GENERAL NOTES:**

1. LETTER AT LIGHTING FIXTURE IS THE FIXTURE TYPE. NUMBER AT LIGHTING FIXTURE IS THE LIGHTING CIRCUIT. LOWER CASE LETTER AT LIGHTING FIXTURE, WHEN APPLICABLE, IS THE SWITCH OR OCCUPANCY SENSOR CONTROLLING THE LIGHTING FIXTURE. LIGHT SWITCH OR OCCUPANCY SENSOR WILL HAVE CORRESPONDING LOWER CASE LETTER.

- 2. ALL LIGHTING FIXTURES SHALL BE INSTALLED AND LOCAL JURISDICTION REQUIREMENTS, IN STRICT ACCORDANCE WITH NEC ARTICLE 410.16, AND SHALL PROPERLY AND SUITABLY SUPPORT THE WEIGHT OF ANY FIXTURE INSTALLED.
- 3. EVERY FIXTURE SHALL BE OF THE TYPE FOR CEILING CONSTRUCTION IN OR ON WHICH IT IS TO BE INSTALLED. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE THIS WITH THE ARCHITECT'S FINISH SCHEDULES.
- 4. ALL RECESSED FIXTURES MOUNTED IN DRYWALL OR PLASTER CEILINGS SHALL BE COMPLETE WITH A SUITABLE PLASTER FRAME OR TRIM RING. ALL FIXTURES SHALL BE MOUNTED ON OR IN CEILINGS IN ACCORDANCE WITH PUBLISHED RECOMMENDATIONS OF THE MANUFACTURERS, USING BAR OR SWINGWAY HANGERS, ETC. THESE ITEMS SHALL BE FURNISHED AS PART OF THE FIXTURE.
- 5. GENERALLY ALL LIGHTING FIXTURES SHALL BE SUITABLE FOR OPERATION AT 120 OR 277 VOLTS. THE CONTRACTOR SHALL COORDINATE TO INSURE THAT EACH FIXTURE IS SUITABLE FOR THE VOLTAGE CHARACTERISTIC AT THE POINT OF CONNECTION.

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