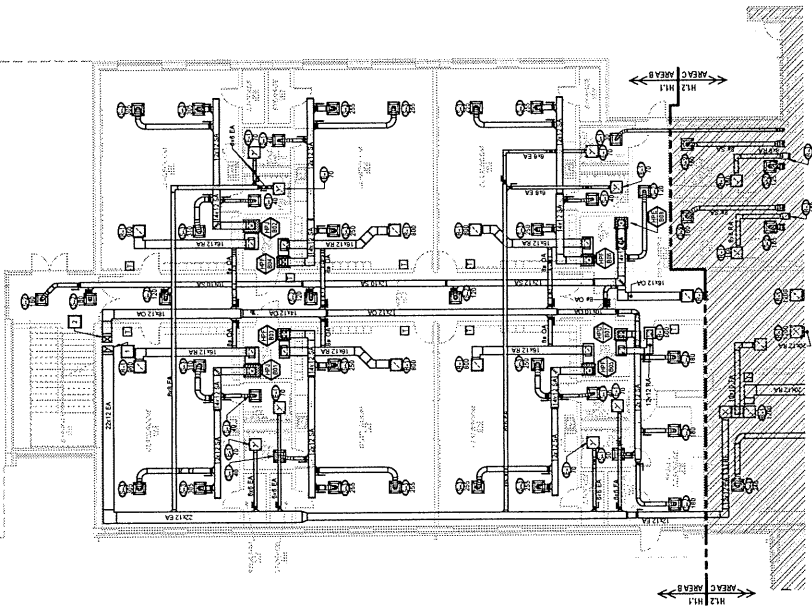
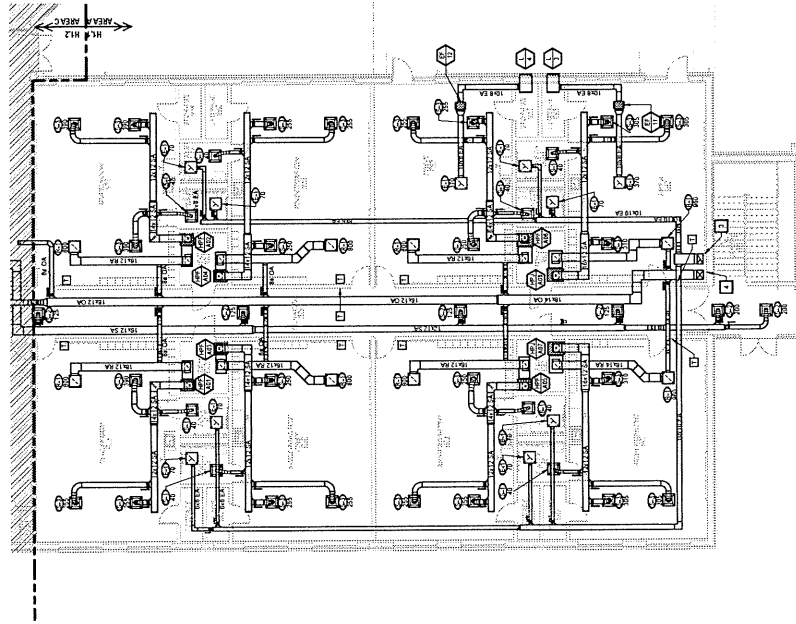
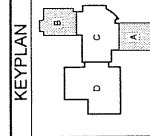




DUCT RUN-OUT SCHEDULE	
CFM RANGE	SIZE
0 - 100	8"Ø
101 - 200	8"Ø
201 - 325	10"Ø
326 - 550	12"Ø



CLASSIFIED ASSEMBLY LEGEND		REQUIRED WORK
SYMBOL	DESCRIPTION	DETAILS
	2MR F.A.W. ASSEMBLY	F.A.W. PENETRATION, INSTALL AND DISCRETEMENT, A METAL, MEMBRANE AND PENETRATION (SEE SECTION 7)
	1MR F.A.W. ASSEMBLY	F.A.W. PENETRATION, INSTALL AND F.N. PENETRATION (SEE SECTION 7) F.A.W. PENETRATION (SEE SECTION 7)
	2MR F.A.W. ASSEMBLY	F.A.W. PENETRATION, INSTALL AND F.N. PENETRATION (SEE SECTION 7) F.A.W. PENETRATION (SEE SECTION 7)
	2MR F.A.W. ASSEMBLY (FOR RECESSED ROOF ONLY)	F.A.W. PENETRATION, INSTALL AND F.N. PENETRATION (SEE SECTION 7) F.A.W. PENETRATION (SEE SECTION 7)
	AFD - AUTOMATIC FIRE DAMPER	F.A.W. PENETRATION AND INSTALL AFD
	F.A.W. - FIRE-RESISTANT-GLAZED	F.A.W. PENETRATION AND INSTALL F.A.W. PENETRATION (SEE SECTION 7)
	F.A.W. - FIRE-RESISTANT-STOP	F.A.W. PENETRATION AND INSTALL F.A.W. PENETRATION (SEE SECTION 7)

MECHANICAL	
CONSTRUCTION TAG NOTES	
(APPLIED TO THIS DRAWING ONLY)	
1	12x12 EA TO DOGS-ON SERVICE PLATFORM. SEE H-1.7 FOR CONTINUATION.
2	22x12 EA FROM DOGS-ON SERVICE PLATFORM. SEE H-1.7 FOR CONTINUATION.
3	20x12 EA TO DOGS-ON SERVICE PLATFORM. SEE H-1.7 FOR CONTINUATION.
4	19H-4 EA FROM DOGS-ON SERVICE PLATFORM. SEE H-1.7 FOR CONTINUATION.

MARCUM ENGINEERING, LLC
505 SOUTH 177TH STREET,
PO BOX 4, KENTUCKY 40302
PHONE: 270 444 3274
WWW.MARCUMENGINEERING.NET
KENTUCKY: 270 444 3274
KENTUCKY: 270 444 3274

HANSON ELEMENTARY SCHOOL
HOPKINS COUNTY

HVAC SERVICE PLATFORM
AREAS A AND B[illegible]

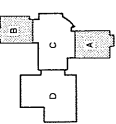
H1.7

MECHANICAL
CONSTRUCTION TAG NOTES

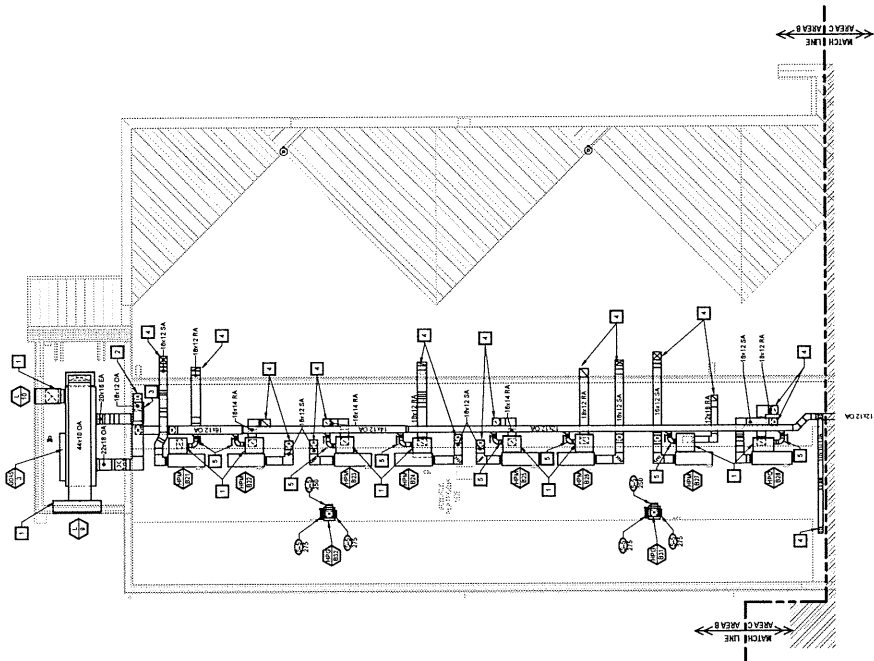
- | (APPLIES TO THIS DRAWING ONLY) | |
|--------------------------------|--------------------------------------|
| 1 | FULL SIZE PLENUM |
| 2 | 18x12 CA, SEE H1.4 FOR CONTINUATION. |
| 3 | 20x18 PA, SEE H1.4 FOR CONTINUATION. |
| 4 | SEE H1.4 FOR CONTINUATION. |
| 5 | NO CA |
| 6 | 18x14 CA, SEE H1.4 FOR CONTINUATION. |
| 7 | 20x12 CA, SEE H1.4 FOR CONTINUATION. |
| 8 | 18x14 PA, SEE H1.4 FOR CONTINUATION. |

DUCT RUN-OUT SCHEDULE	
CFM RANGE	SIZE
0 - 100	6"Ø
101 - 200	8"Ø
201 - 325	10"Ø
326 - 550	12"Ø

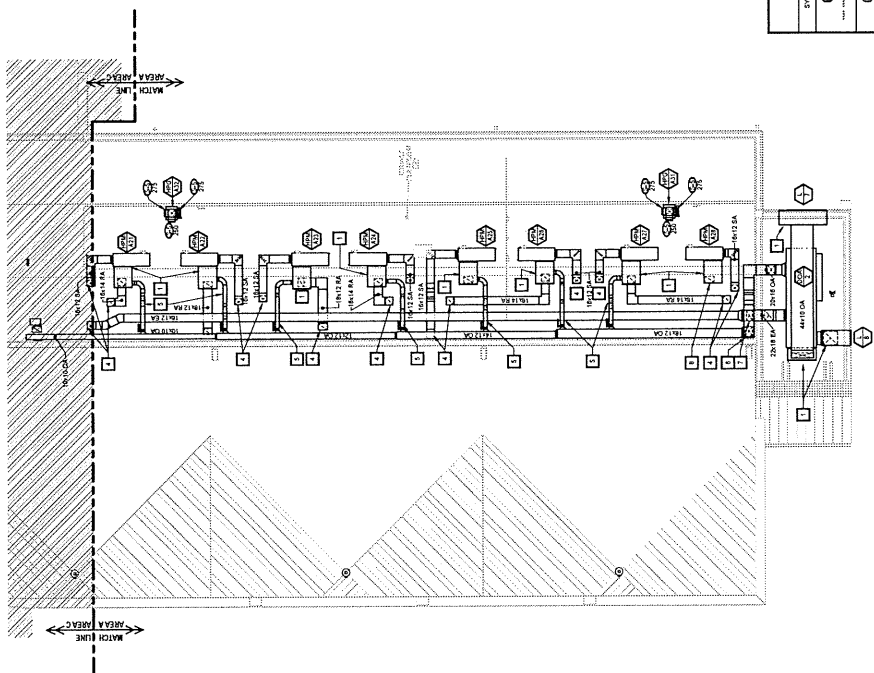
KEYPLAN



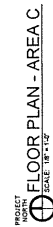
CLASSIFIED ASSEMBLY LEGEND

[illegible]

PROJECT NORTH
FLOOR PLAN - AREA B
SCALE: 1/8" = 1'-0"



PROJECT NORTH
FLOOR PLAN - AREA A



KEYPLAN

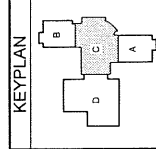
The keyplan shows a central shaded area labeled 'C'. To its top-left is area 'B', to its top-right is area 'A', and below it is area 'D'.

CLASSIFIED ASSEMBLY LEGEND		
SYMBOL	DESCRIPTION	REQUIRED QUANTITY
	2HR A-BA ASSEMBLY	PA-ALL PREVENTATIVE AND METAL A/D DISASSEMBLY AND METAL MEMBER REC SECTION 112
	1HR A-BA ASSEMBLY	PA-ALL PREVENTATIVE AND METAL A/D DISASSEMBLY AND METAL MEMBER PREVENTATIVE AND METAL A/D REC SECTION 112
	2HR A-BA ASSEMBLY	PA-ALL PREVENTATIVE AND METAL A/D DISASSEMBLY AND METAL MEMBER PREVENTATIVE AND METAL A/D REC SECTION 112
	2HR PREVENTATIVE AND METAL A/D DISASSEMBLY (FOR RECESSED STUDS ONLY)	PA-ALL PREVENTATIVE AND METAL A/D DISASSEMBLY AND METAL MEMBER PREVENTATIVE AND METAL A/D REC SECTION 112

A/D = AUTOMATIC FIRE DAMPER
 P = PRELIMINARY
 P# = PRELIMINARY
 P# = FIRE STOP

[illegible]

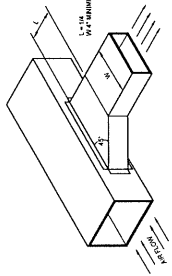
	1	FULL SEED PLUM	
	2	SEE 14.5 FOR CONTINUATION	
	3	NO 1A	
	4	NO 1A	
	5	20-14 1A, SEE 14.5 FOR CONTINUATION.	
	6	COORDINATE WITH STRUCTURE.	
	7	14A SEE 14.1 FOR CONTINUATION.	
	8	14A SEE 14.1 FOR CONTINUATION.	
	9	NO 1A SEE 14.5 FOR CONTINUATION.	
	10	NO 1A SEE 14.5 FOR CONTINUATION.	

[illegible]

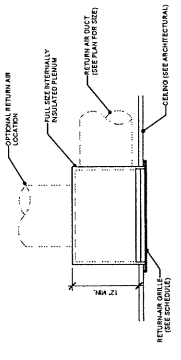
MECHANICAL	
CONSTRUCTION TAG NOTES	
	(APPLIES TO THIS DRAWING ONLY)
1	SEUP AND CONNECT SUPPLY AND RETURN PIPES TO UNIT PER DETAIL. SEE "WATER CURE BENCH PUMP SCHEDULE ON THE DRAWING FOR TYPE. SEE
2	NOTE 1. CORROSION-RESISTANT PIPING TYPE CONNECTION PER DETAIL AND
3	NOTE 1. FLOOR AND SEE PUMPING DIMENSIONS. MAINTAIN MINIMUM 8" PER
4	FLOOR SPACE.
5	NOTE 1. SUPPLY AND RETURN PIPES TO BUILDING SEE ARCHITECTURAL
6	DETAILS.
7	SUPPLY AND RETURN PIPES TO CONNECT TO MAINS HIGH IN CEILING SPACE
8	SEE DRAWING H-1.1, 1.2 FOR CONNECTION.
9	SUPPLY AND RETURN PIPES TO CONNECT TO MAINS HIGH IN CEILING SPACE.

UNIT TAG	BRANCH PIPE SIZE
HPLC-008	1-1/2"
HPLC-009	1-1/2"
HPLC-010	1-1/2"
HPLC-011	1"

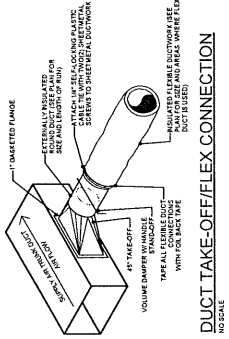
DATE	BY	CHKD	APP'D
10/1/2018	JLH	JS	JS
REVISIONS	DATE	BY	CHKD
1. REVISED FOR HANSON ELEMENTARY SCHOOL	10/1/2018	JLH	JS



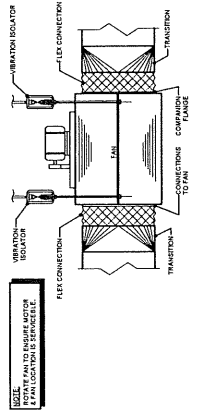
DUCT TAKEOFF DETAIL
 NO SCALE



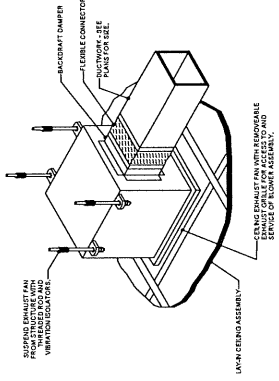
RETURN-AIR GRILLE PLENUM DETAIL
 NO SCALE



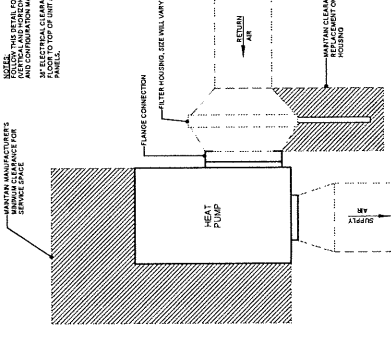
DUCT TAKE-OFF/FLEX CONNECTION
 NO SCALE



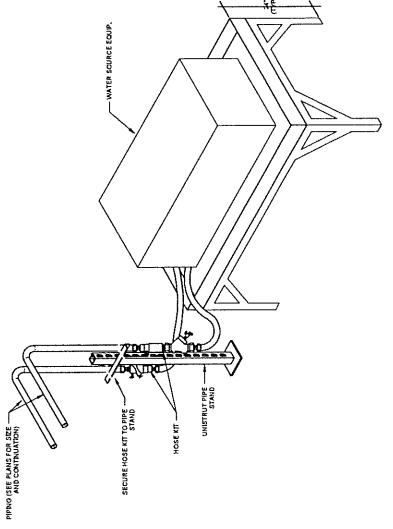
INLINE FAN SUPPORT DETAIL
 NO SCALE



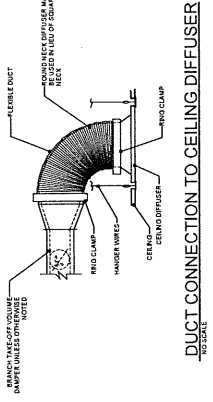
CEILING MOUNTED EXHAUST FAN DETAIL
 NO SCALE



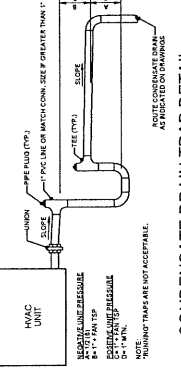
TYP. WSHP SERVICE CLEARANCE DETAIL
 NO SCALE



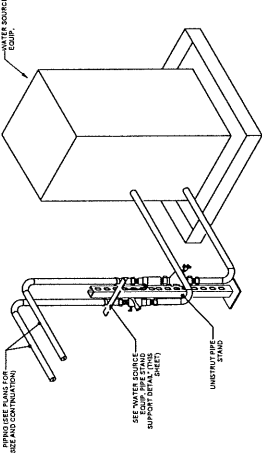
WATER SOURCE EQUIP. PIPE STAND DETAIL
 NO SCALE



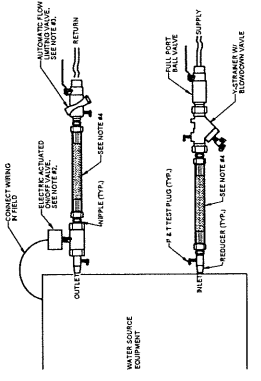
DUCT CONNECTION TO CEILING DIFFUSER
 NO SCALE



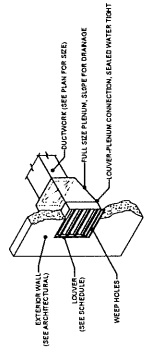
CONDENSATE DRAIN TRAP DETAIL
 NO SCALE



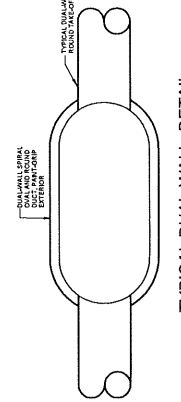
WATER SOURCE EQUIP. PIPE STAND DETAIL
 NO SCALE



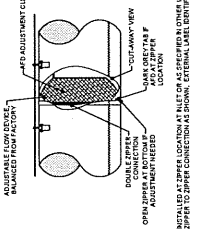
WATER SOURCE EQUIPMENT PIPING DETAIL
 NO SCALE



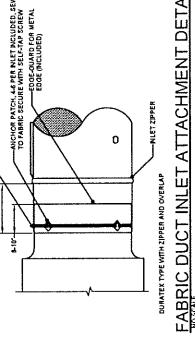
TYPICAL LOWER INSTALLATION DETAIL
 NO SCALE



TYPICAL DUAL-WALL DETAIL
 NO SCALE



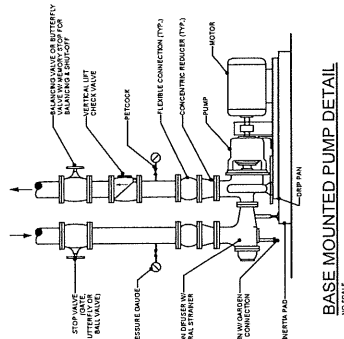
FABRIC DUCT ADJUSTABLE FLOW DEVICE (AFD) DETAIL
 NO SCALE



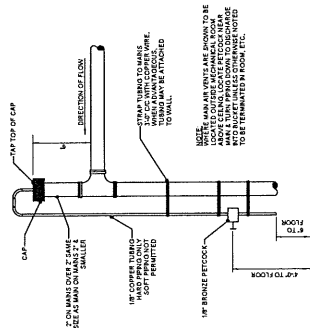
FABRIC DUCT INLET ATTACHMENT DETAIL
 NO SCALE

NOTES:
 1. INSTALLATION REQUIRED FOR EVERY WATER SOURCE EQUIPMENT (WSE) OF TYPE OR INITIAL.
 2. WSE SHALL BE FASTENED TO CEILING OR WALL. WSE SHALL BE CONTROLLER BY EQUIPMENT.
 3. WSE SHALL BE FASTENED TO CEILING OR WALL. WSE SHALL BE CONTROLLER BY EQUIPMENT.
 4. 2" MINIMUM LENGTH HOSE KIT. HOSE KIT SHALL BE SIZED FOR REQUIRED FLOW RATE. NOT EQUIPMENT CONNECTION. SEE SEE PIPING PLAN FOR SIZE.
 5. PROVIDE HOSE KIT (SMALL) INCLUDING EQUIPMENT SERVED. HOSE KIT SIZE AND PRESSURE DROP.

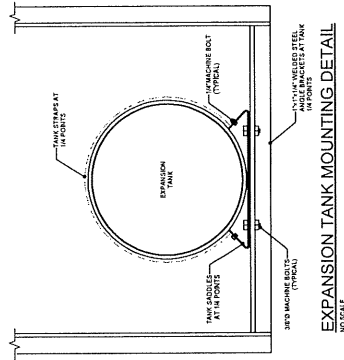
DATE	BY	REVISIONS
01/13/2021	LM	1.0
01/13/2021	LM	1.1
01/13/2021	LM	1.2
01/13/2021	LM	1.3
01/13/2021	LM	1.4
01/13/2021	LM	1.5
01/13/2021	LM	1.6
01/13/2021	LM	1.7
01/13/2021	LM	1.8
01/13/2021	LM	1.9
01/13/2021	LM	1.10
01/13/2021	LM	1.11
01/13/2021	LM	1.12
01/13/2021	LM	1.13
01/13/2021	LM	1.14
01/13/2021	LM	1.15
01/13/2021	LM	1.16
01/13/2021	LM	1.17
01/13/2021	LM	1.18
01/13/2021	LM	1.19
01/13/2021	LM	1.20



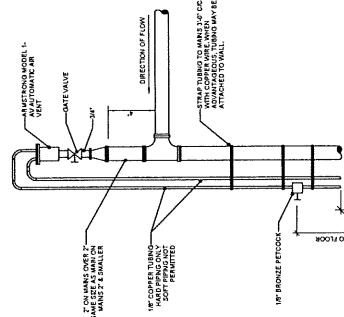
BASE MOUNTED PUMP DETAIL
NO SCALE



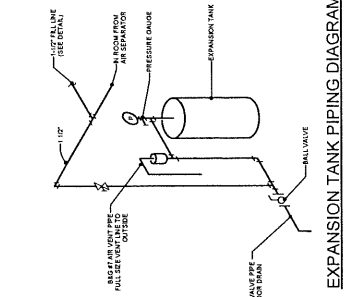
MANUAL AIR VENT DETAIL
NO SCALE



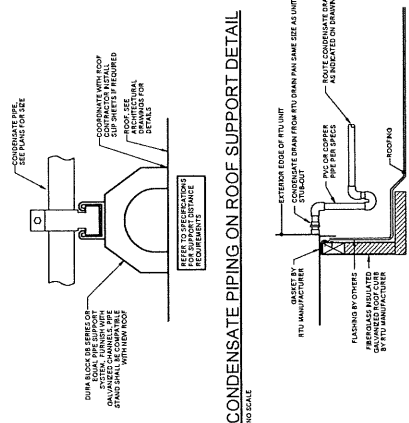
EXPANSION TANK MOUNTING DETAIL
NO SCALE



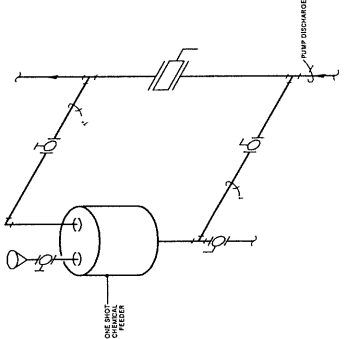
AUTOMATIC AIR VENT DETAIL
NO SCALE



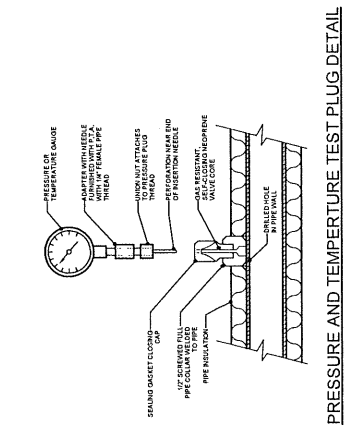
EXPANSION TANK PIPING DIAGRAM
NO SCALE



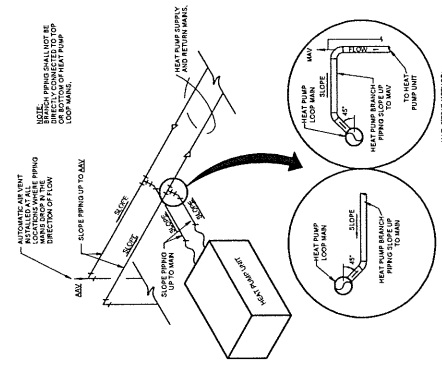
CONDENSATE PIPING ON ROOF SUPPORT DETAIL
NO SCALE



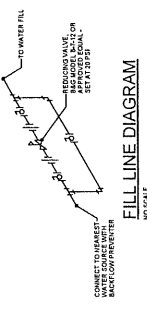
CHEMICAL FEEDER DIAGRAM
NO SCALE



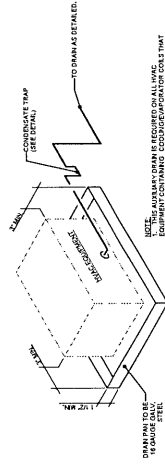
PRESSURE AND TEMPERATURE TEST PLUG DETAIL
NO SCALE



HEAT PUMP BRANCH CONNECTION DETAIL
NO SCALE



FILL LINE DIAGRAM
NO SCALE



AUXILIARY DRAIN PAN DETAIL
NO SCALE

[illegible]

MARK	MFR.	MODEL	SIZE	CONFIGURATION	WEIGHT (LBS.)	FANS AND MOTOR DATA				GAS FLOW SECTION				DUCT CONNECTIONS				HOT GAS SECTION				REMARKS		
						TYPE & S.P.	NO.	AREA	TYPE & S.P.	FAN	MOTOR	INLET	OUTPUT	INLET	OUTPUT	TEMP.	TEMP.	TEMP.	TEMP.	TEMP.	TEMP.	TEMP.	TEMP.	TEMP.
					CFM	INCH	CFM	INCH	HP	HP	CFM	INCH	CFM	INCH	CFM	INCH	CFM	INCH	CFM	INCH	CFM	INCH	CFM	INCH
W-1	W-1	W-1	W-1	W-1	1000	10	1000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
W-2	W-2	W-2	W-2	W-2	1000	10	1000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
W-3	W-3	W-3	W-3	W-3	1000	10	1000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
W-4	W-4	W-4	W-4	W-4	1000	10	1000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
W-5	W-5	W-5	W-5	W-5	1000	10	1000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
W-6	W-6	W-6	W-6	W-6	1000	10	1000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
W-7	W-7	W-7	W-7	W-7	1000	10	1000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
W-8	W-8	W-8	W-8	W-8	1000	10	1000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
W-9	W-9	W-9	W-9	W-9	1000	10	1000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
W-10	W-10	W-10	W-10	W-10	1000	10	1000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
W-11	W-11	W-11	W-11	W-11	1000	10	1000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
W-12	W-12	W-12	W-12	W-12	1000	10	1000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
W-13	W-13	W-13	W-13	W-13	1000	10	1000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
W-14	W-14	W-14	W-14	W-14	1000	10	1000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
W-15	W-15	W-15	W-15	W-15	1000	10	1000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
W-16	W-16	W-16	W-16	W-16	1000	10	1000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
W-17	W-17	W-17	W-17	W-17	1000	10	1000	10	10															

REMARKS AND ACCESSORIES:

1. PROVIDE UNIT WITH AT MINIMUM ONE (1) YEAR PARTS AND LABOR WARRANTY, FIVE (5) YEAR EXTENDED COMPRESSOR WARRANTY, AND FIFTEEN (15) YEAR HEAT EXCHANGER WARRANTY.

2. COOLING CAPACITIES ARE BASED ON STANDARD AIRWASHAKE CONDITIONS ON 25F DB/77F WB AMBIENT AIR, 74F DB AND 62F WB RETURN AIR TEMPERATURE.

- [illegible]

SPLIT HEAT PUMP SYSTEM EQUIPMENT SCHEDULE																
ROOM/UNIT NUMBER	WFO.	DESCRIPTION	AREA SERVED (SQ. FT.)	WATER INFEED (GPM)	MAX. AIRFLOW (CFM)	WATER INFEED (GPM)	RATED CAPACITY (TONS)	HP	WFO. (W/HP)	220V. OUTDOOR UNIT NAME	WFO.	MODEL NUMBER	APPROX. UNITWGT (LBS.)	VOLTS/PHASE	WVA (AMPS)	REMARKS AND ACCESSORIES
3-1	MTS003H	CASSETTE	600	24.8	1.5	28.1	1.5	12.5	0.5-1	MTS003H	128	28.1	115	28	5.23	
3-2	MTS003H	CASSETTE	600	24.8	1.5	28.1	1.5	12.5	0.5-1	MTS003H	128	28.1	115	28	5.23	
3-3	MTS003H	CASSETTE	600	24.8	1.5	28.1	1.5	12.5	0.5-1	MTS003H	128	28.1	115	28	5.23	
3-4	MTS003H	CASSETTE	600	24.8	1.5	28.1	1.5	12.5	0.5-1	MTS003H	128	28.1	115	28	5.23	
3-5	MTS003H	CASSETTE	600	24.8	1.5	28.1	1.5	12.5	0.5-1	MTS003H	128	28.1	115	28	5.23	
3-6	MTS003H	CASSETTE	600	24.8	1.5	28.1	1.5	12.5	0.5-1	MTS003H	128	28.1	115	28	5.23	
3-7	MTS003H	CASSETTE	600	24.8	1.5	28.1	1.5	12.5	0.5-1	MTS003H	128	28.1	115	28	5.23	
3-8	MTS003H	CASSETTE	600	24.8	1.5	28.1	1.5	12.5	0.5-1	MTS003H	128	28.1	115	28	5.23	
3-9	MTS003H	CASSETTE	600	24.8	1.5	28.1	1.5	12.5	0.5-1	MTS003H	128	28.1	115	28	5.23	
3-10	MTS003H	CASSETTE	600	24.8	1.5	28.1	1.5	12.5	0.5-1	MTS003H	128	28.1	115	28	5.23	
3-11	MTS003H	CASSETTE	600	24.8	1.5	28.1	1.5	12.5	0.5-1	MTS003H	128	28.1	115	28	5.23	
3-12	MTS003H	CASSETTE	600	24.8	1.5	28.1	1.5	12.5	0.5-1	MTS003H	128	28.1	115	28	5.23	
3-13	MTS003H	CASSETTE	600	24.8	1.5	28.1	1.5	12.5	0.5-1	MTS003H	128	28.1	115	28	5.23	
3-14	MTS003H	CASSETTE	600	24.8	1.5	28.1	1.5	12.5	0.5-1	MTS003H	128	28.1	115	28	5.23	
3-15	MTS003H	CASSETTE	600	24.8	1.5	28.1	1.5	12.5	0.5-1	MTS003H	128	28.1	115	28	5.23	
3-16	MTS003H	CASSETTE	600	24.8	1.5	28.1	1.5	12.5	0.5-1	MTS003H	128	28.1	115	28	5.23	
3-17	MTS003H	CASSETTE	600	24.8	1.5	28.1	1.5	12.5	0.5-1	MTS003H	128	28.1	115	28	5.23	
3-18	MTS003H	CASSETTE	600	24.8	1.5	28.1	1.5	12.5	0.5-1	MTS003H	128	28.1	115	28	5.23	
3-19	MTS003H	CASSETTE	600	24.8	1.5	28.1	1.5	12.5	0.5-1	MTS003H	128	28.1	115	28	5.23	
3-20	MTS003H	CASSETTE	600	24.8	1.5	28.1	1.5	12.5	0.5-1	MTS003H	128	28.1	115	28	5.23	
3-21	MTS003H	CASSETTE	600	24.8	1.5	28.1	1.5	12.5	0.5-1	MTS003H	128	28.1	115	28	5.23	
3-22	MTS003H	CASSETTE	600	24.8	1.5	28.1	1.5	12.5	0.5-1	MTS003H	128	28.1	115	28	5.23	
3-23	MTS003H	CASSETTE	600	24.8	1.5	28.1	1.5	12.5	0.5-1	MTS003H	128	28.1	115			

MODEL LINE	MODEL	DESCRIPTION	AREA SERVED	UNIT SERVED (SEAT)	NO. OF AIRFLOW (CFM)	SEER	CODING TEMPERATURE (MMB)	RATED HEATING CAPACITY (MBH)	RATED COOLING CAPACITY (MBH)	WATER VOLUME (GPM)	WATER TEMP. (°F)	OUTDOOR TEMP. (°F)	WFG.	MODEL NUMBER	APPROX. UNIT VOLUME (CU.FT.)	WATER VOLUME (GPM)	WATER TEMP. (°F)	APPROX. ACCESSORIES
1-1	WTU100H1	CASSETTE	FITCHEN SUPPORT HT	8	600	24.8	10.8	18.9	11.2	20.1	1.2	12.2	CU-1	PZ42AN100H1	125	20.1	11.2	28
2-1	WTU100H1	CASSETTE	FITCHEN SUPPORT HT	8	600	24.8	10.8	18.9	11.2	20.1	1.2	12.2	CU-1	PZ42AN100H1	125	20.1	11.2	28
3-1	WTU100H1	CASSETTE	OFFICE	4	425	23.8	12.5	16.5	10.5	19.1	1.2	12.2	CU-1	PZ42AN100H1	105	20.1	11.2	28
4-1	WTU100H1	CASSETTE	OFFICE	4	425	23.8	12.5	16.5	10.5	19.1	1.2	12.2	CU-1	PZ42AN100H1	105	20.1	11.2	28
5-1	WTU100H1	CASSETTE	HALL BOOTH	25	775	24.8	10.8	18.9	11.2	20.1	1.2	12.2	CU-1	PZ42AN100H1	125	20.1	11.2	28
6-1	WTU100H1	CASSETTE	HALL BOOTH	25	775	24.8	10.8	18.9	11.2	20.1	1.2	12.2	CU-1	PZ42AN100H1	125	20.1	11.2	28

REMARKS AND ACCESSORIES:

- [illegible]

KITCHEN EXHAUST HOOD WITH MAKE-UP AIR UNIT SCHEDULE																
KITCHEN HOOD					MAKE-UP AIR UNIT											
MARK	MODEL	TYPE	SIZE	APPROX. EXHAUST FAN UNIT	MARK	MODEL	UNIT WEIGHT	TEMP. IN HOOD	TAH	UNIT TYPE	TAH TEMP	HEAT OUTPUT (MBH)	TEMP. OUTPUT (°F)	ELECTRICAL DATA (VOLTAGE/AMPS/PHASE)	REMARKS AND ACCESSORIES	
QW1	CA5000S-25P-2	CANOPY/TYPE 1	10' X 8' 3" X 4"	600	EE5-1	CA5000	278	300	85.0	100	100	7.1	70	115/1	14.5	SEE BELOW
QW2	CA5000S-25P-2	CANOPY/TYPE 1	10' X 8' 3" X 4"	600	EE5-2	CA5000	278	300	85.0	100	100	7.1	70	115/1	14.5	SEE BELOW
QW3	CA5000S-25P-2	CANOPY/TYPE 1	10' X 8' 3" X 4"	600	EE5-2	CA5000	278	300	85.0	100	100	7.1	70	115/1	14.5	SEE BELOW

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KITCHEN HOOD REMARKS AND ACCESSORIES:

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LOUVER SCHEDULE										
MARK	UFG	DESCRIPTION	WGT / PCE	SIZE (INCHES)	AREA (SQ. FT.)	FACE WEIGHT (LB./SQ. FT.)	TYPE OF FINISH AND COATING	SERVICE	WARRANTY PERIOD, ACCESSORIES	
L-1	GREENGLASS	HURRICANE RATED LOUVER	475-80	36 X 18 X 1.5	370	3.720	361	FLANGE	EP-2, E-4 AND E-5 EXHAUST	14, 10, 12
L-2	GREENGLASS	COAL LOUVER/DAMPEN	475-80	24 X 16 X 1.5	370	3.540	692	CHANNEL	EP-1 DAMPST	14
L-3	GREENGLASS	COAL LOUVER/DAMPEN	475-80	24 X 18 X 1.5	370	3.540	692	CHANNEL	EP-1 DAMPST	14
L-4	GREENGLASS	HURRICANE RATED LOUVER	475-80	48 X 24 X 1.5	370	3.720	692	FLANGE	DO-2S IN-TAKE	14, 10, 12
L-5	GREENGLASS	HURRICANE RATED LOUVER	475-80	48 X 24 X 1.5	370	3.720	692	FLANGE	DO-2S IN-TAKE	14, 11
L-6	GREENGLASS	STAYDOWN LOUVER	475-80	36 X 20 X 1.5	295	3.470	510	CHANNEL	DO-2S IN-TAKE	14
L-7	GREENGLASS	STAYDOWN LOUVER	475-80	36 X 20 X 1.5	295	3.480	717	CHANNEL	DO-2S IN-TAKE	14
L-8	GREENGLASS	STAYDOWN LOUVER	475-80	36 X 20 X 1.5	295	3.870	464	CHANNEL	DO-2S IN-TAKE	14, 11
L-9	GREENGLASS	STAYDOWN LOUVER	475-80	36 X 20 X 1.5	155	2.860	464	CHANNEL	DO-2S IN-TAKE	14, 11
L-10	GREENGLASS	STAYDOWN LOUVER	475-80	36 X 20 X 1.5	155	2.860	464	CHANNEL	DO-2S IN-TAKE	14, 11
L-11	GREENGLASS	HURRICANE RATED LOUVER	475-80	36 X 24 X 1.5	400	4.100	848	FLANGE	HP-2S SUPPLY	14, 10, 12
L-12	GREENGLASS	HURRICANE RATED LOUVER	475-80	48 X 24 X 1.5	400	4.100	848	FLANGE	HP-2S SUPPLY	14, 10, 12
L-13	GREENGLASS	HURRICANE RATED LOUVER	475-80	48 X 24 X 1.5	400	4.100	848	FLANGE	HP-2S SUPPLY	14, 10, 12
L-14	GREENGLASS	HURRICANE RATED LOUVER	475-80	36 X 24 X 1.5	1000	4.100	741	FLANGE	HP-2S RETURN	14, 10, 12
L-15	GREENGLASS	HURRICANE RATED LOUVER	475-80	36 X 24 X 1.5	1000	4.100	741	FLANGE	HP-2S RETURN	14, 10, 12
L-16	GREENGLASS	HURRICANE RATED LOUVER	475-80	36 X 24 X 1.5	1000	4.100	741	FLANGE	HP-2S RETURN	14, 10, 12
L-17	GREENGLASS	HURRICANE RATED LOUVER	475-80	36 X 24 X 1.5	800	2.550	800	FLANGE	HP-2S SUPPLY	14, 10, 12

MARK	WPG.	DESCRIPTION	MODE/TYPE	SIZE (INCHES)	AREA (SQ. INCHES)	WEIGHT (LBS.)	TYPE OF FRAME	SERVICE	REMARKS (ADDITIONAL ACCESSORIES)
L-1	GREENECK	HORIZONTAL RATED COVER	AL-601	18 X 13 1/2 X 5	705	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-2	GREENECK	CORNER COVER	AL-601	24 X 16 X 5	375	530	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-3	GREENECK	CORNER COVER	AL-601	24 X 16 X 5	375	530	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-4	GREENECK	CORNER COVER	AL-601	24 X 16 X 5	375	530	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-5	GREENECK	CORNER COVER	AL-601	24 X 16 X 5	375	530	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-6	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-7	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-8	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-9	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-10	GREENECK	STANDARD COVER	ED-601	96 X 64 X 1 1/2	2,880	8,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-11	GREENECK	STANDARD COVER	ED-601	96 X 64 X 1 1/2	2,880	8,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-12	GREENECK	STANDARD COVER	ED-601	96 X 64 X 1 1/2	2,880	8,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-13	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-14	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-15	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-16	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-17	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-18	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-19	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-20	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-21	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-22	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-23	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-24	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-25	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-26	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-27	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-28	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-29	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-30	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-31	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-32	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-33	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-34	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E-4 AND E-5 DRAUGHT	14, 15
L-35	GREENECK	HORIZONTAL RATED COVER	AL-601	48 X 30 1/2 X 5	5,475	2,760	FLANGE	W-2, E	

REMARKS AND ACCESSORIES:

3. REFER TO SPECIFIED AREA, SURFACE, OR POINT OF MEASUREMENT, AND THIRD PLUMB, DEPTH, OR OTHER DIMENSION, TO DETERMINE LOCATION OF THE POINT OF MEASUREMENT.
4. PROVIDE UNIT WITH EXTENDED SILL.
5. PROVIDE UNIT WITH ALUMINUM CORNER PROTECTION.
6. PROVIDE UNIT WITH FACTORY APPLIED, 3-0x4", 70% DRYWALL FINISH, COLOR TO BE SELECTED BY ARCHITECT.
7. REFER TO FUNCTIONAL DRAWINGS FOR LAMP, TRAILER DETAILS AND NOTES.
8. PROVIDE UNIT WITH 24" ACTIVATED DAMPER. DAMPER ACTUATOR SHALL BE INTERLOCKED WITH REFERENCED PAN OPERATION BY TEMPERATURE CONTROLS CONTRACTOR. DAMPER SHALL BE OPERATED BY THE SAME ACTUATOR AS THE REFERENCED PAN OPERATION. THE UNIT SHALL BE OPERATED BY THE SAME ACTUATOR AS THE REFERENCED PAN OPERATION.
9. LOCK GAS VALVE, TYPES, UNITED STATES, AND GAS VALVE SHALL BE OPERATED BY THE SAME ACTUATOR AS THE REFERENCED PAN OPERATION.
10. LOCK GAS VALVE, TYPES, UNITED STATES, AND GAS VALVE SHALL BE OPERATED BY THE SAME ACTUATOR AS THE REFERENCED PAN OPERATION.

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NUTRIENT ANALYSIS OF CATTLE FEEDS														
PHYSICAL DATA										ELECTRICAL DATA				
MARK	MFG.	SERVICE	MODEL	SIZE (WIDHT) (L2)	ATTACHED TO	MOUNTING	TYPE	WAVE	MOTOR	NO. OF	VOLTAJE	WMA	WCP	WCP
REF-1	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-2	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-3	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-4	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-5	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-6	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-7	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-8	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-9	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-10	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-11	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-12	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-13	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-14	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-15	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-16	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-17	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-18	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-19	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-20	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-21	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-22	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-23	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-24	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-25	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-26	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-27	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-28	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-29	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8
REF-30	CAPITARE	RC-1	50	85	180	ROOF	120	1.25	DIRECT	COSE	150	115.1	10.2	3.8

REMARKS AND ACCESSORIES:
1. 100% COTTON 2. 100% COTTON 3. 100% COTTON 4. 100% COTTON 5. 100% COTTON 6. 100% COTTON 7. 100% COTTON 8. 100% COTTON 9. 100% COTTON 10. 100% COTTON 11. 100% COTTON 12. 100% COTTON 13. 100% COTTON 14. 100% COTTON 15. 100% COTTON 16. 100% COTTON 17. 100% COTTON 18. 100% COTTON 19. 100% COTTON 20. 100% COTTON 21. 100% COTTON 22. 100% COTTON 23. 100% COTTON 24. 100% COTTON 25. 100% COTTON 26. 100% COTTON 27. 100% COTTON 28. 100% COTTON 29. 100% COTTON 30. 100% COTTON 31. 100% COTTON 32. 100% COTTON 33. 100% COTTON 34. 100% COTTON 35. 100% COTTON 36. 100% COTTON 37. 100% COTTON 38. 100% COTTON 39. 100% COTTON 40. 100% COTTON 41. 100% COTTON 42. 100% COTTON 43. 100% COTTON 44. 100% COTTON 45. 100% COTTON 46. 100% COTTON 47. 100% COTTON 48. 100% COTTON 49. 100% COTTON 50. 100% COTTON 51. 100% COTTON 52. 100% COTTON 53. 100% COTTON 54. 100% COTTON 55. 100% COTTON 56. 100% COTTON 57. 100% COTTON 58. 100% COTTON 59. 100% COTTON 60. 100% COTTON 61. 100% COTTON 62. 100% COTTON 63. 100% COTTON 64. 100% COTTON 65. 100% COTTON 66. 100% COTTON 67. 100% COTTON 68. 100% COTTON 69. 100% COTTON 70. 100% COTTON 71. 100% COTTON 72. 100% COTTON 73. 100% COTTON 74. 100% COTTON 75. 100% COTTON 76. 100% COTTON 77. 100% COTTON 78. 100% COTTON 79. 100% COTTON 80. 100% COTTON 81. 100% COTTON 82. 100% COTTON 83. 100% COTTON 84. 100% COTTON 85. 100% COTTON 86. 100% COTTON 87. 100% COTTON 88. 100% COTTON 89. 100% COTTON 90. 100% COTTON 91. 100% COTTON 92. 100% COTTON 93. 100% COTTON 94. 100% COTTON 95. 100% COTTON 96. 100% COTTON 97. 100% COTTON 98. 100% COTTON 99. 100% COTTON 100. 100% COTTON

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MARK	WFO.	MODEL	PROPELLER BLADE TYPE	FAN DIAMETER	AIRFLOW	DRIVE	MEDIUM SPEED RANGE	Q/A	VOLUME /PHASE	F/A AMPS	REMARKS /DISCUSSIONS
WU-5.5	GREENWICH	D-5.6	ANVIL	16" 8"	204/111	DIRECT	87	+53	400/3	2.3	SEE FLOW
WU-5.5	GREENWICH	D-5.6	ANVIL	16" 8"	204/111	DIRECT	87	+53	400/3	2.3	SEE FLOW
WU-5.5	GREENWICH	D-5.6	ANVIL	8" 8"	CORRIGER 816	DIRECT	186	+53	115/1	5	SEE FLOW
WU-5.5	GREENWICH	D-5.6	ANVIL	8" 8"	GRANT HALL 31	DIRECT	186	+53	115/1	5	SEE FLOW
WU-5.5	GREENWICH	D-5.6	ANVIL	17" 8"	MEDIA CENTER 95	DIRECT	119	+57	400/3	2.3	SEE FLOW

NO	REMARKS AND ACCESSORIES
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- [illegible]

HYDRONIC PUMP SCHEDULE													
MARK	MO.	SERIES	MODEL	CONFIGURATION	SIZE	POWER HP	PMW	WATER FLOW GPM	TRK FT.	PUMP EFF. (% HP)	SERVICE	NO. OF PAGES	REMARKS AND ACCESSORIES
P-1A		HELL AND CASSETT	E1110	4DC	50	315	800	800	150	81.8	GOODYEAR L.O.P.	449/1/30	121
P-1B		HELL AND CASSETT	E1118	4DC	50	315	800	800	150	81.8	GOODYEAR L.O.P.	449/1/30	121

ROUTING AND POWER SCHEDULE												TRANSFORMERS AND CABLES	
MARK	WFO	SERIES	MODEL	WATER METER	CONFIGURATION	SIZE (MM)	POWER (KVA)	TYPE (KVA)	TIME (HRS)	SERVICE	VOLUME (M ³)	TRANSFORMERS (KVA)	
A-1	REL AND GUSSET	E119	40C	115	BASE MOUNT	3	150	150	10	DOORHALL LOOP	400/120	125	
A-2	REL AND GUSSET	E119	40C	115	BASE MOUNT	3	150	150	10	DOORHALL LOOP	400/120	125	

1. PROVIDE UNIT WITH PREMIUM EFFICIENT MOTOR SUITABLE FOR VARIABLE SPEED OPERATION.

- [illegible]

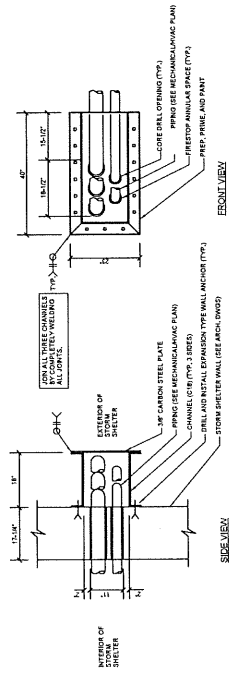


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HANSON ELEMENTARY SCHOOL
HOPKINS COUNTY

MECHANICAL - ELECTRICAL
STORM SHELTER DETAILS AND NOTES[illegible]

ME4.1



COWLING DETAIL C
(TO BE USED FOR CONDITIONS THAT ARE WITHIN 11" AND 180° TOTAL AND WITH INDIVIDUAL CORNERS (LESS THAN 5°)
SCALE: 3/4"=1'-0"

ELECTRICAL SYMBOL LEGEND		
SYMBOL	ITEM DESCRIPTION AND REMARKS	MOUNTING

[illegible]

	COMMUNICATIONS SYSTEMS - VOICE/DATA/INTERCOM	
▽	TECHNOLOGY VOICE/DATA OUTLETS - SEE COMMUNICATION DETAIL. INDICATES NUMBER OF VOICE PORTS AND CABLES DROPS. DA-INDICATES NUMBER OF DATA PORTS AND CABLES DROPS. HA-INDICATES NUMBER OF HDMI JACKS AND CABLES.	WALL AT 10" TO BIM AFF J.O.N.

[illegible]

POWER SYSTEM		
Ø	120V, 20 AMP DUPLEX RECEPTACLE MOUNTED PERPENDICULAR TO FLOOR.	15' TO 81M AFF UON
⊕	120V, 20 AMP QUADRUPLUX RECEPTACLE (DOUBLE DUPLEX)	18' TO 81M AFF UON

[illegible]

FIRE ALARM SYSTEM	
FACP	FIRE ALARM CONTROL PANEL
FAX	FIRE ALARM REMOTE ANNUNCIATOR PANEL

[illegible]

PC	SPECIAL SYSTEMS - SECURITY	WALL CEILING COORDINATE
	SECURITY CCTV CAMERA ROOM-IN LOCATION, PROVIDE (1) DATA CROP.	

**VOICE AND DATA SYSTEMS
GENERAL REQUIREMENTS**

[illegible][illegible]

Each patch data and voice outlet patch shall be labeled at the facsimile. The label shall consist of one row of four characters and one row of two characters. The characters for the first row are as follows: digit one is numeric and indicates the wiring closet number, digit two is numeric and indicates the patch panel number, digit three is numeric and indicates the patch panel number, digit four is numeric and indicates the patch panel number. The two digits on the second row are numeric and indicate the port number on the patch panel or 110 block. There shall be a label attached to the top left corner of the patch panel. The label shall be labeled as follows: patch panel number, patch panel number, the characters shall be a minimum of 3/16" high.

POWER CONNECTION AND FIELD WIRING TOUGHNESS IS A KEY TO LONG-TERM RELIABILITY. The ruggedness of the power and signal wiring is a critical factor in the reliability of the system. The wiring must be able to withstand the harsh environment of the engine compartment, including vibration, temperature extremes, and exposure to oil and other fluids. The wiring must also be able to handle the high currents and voltages required by the engine and the security system.

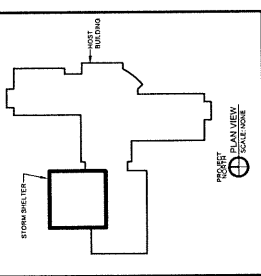
THERMOSTAT NOTE
REFER TO BASIC DRAWINGS FOR LOCATIONS OF ALL CONTRACTOR WIRING AND SENSORS. CONTRACTOR SHALL FURNISH AND INSTALL BACKBOX AND 3" CONDUIT TO ACCESSIBLE CEILING SPACE FOR CONTROLS CONNECTIONS.

ELECTRICAL SPECIAL SYSTEMS OUTLINE		CABLEING		DISTRIBUTION	
CONTRACT SYSTEM DESCRIPTION		RACEWAY/SBOXES			

DESCRIPTION	UNIT	QTY	UNIT PRICE	TOTAL PRICE	EQUIPMENT
1. 120V PLUG AND SOCKET	CPD				
2. 120V PLUG AND SOCKET	CPD				
3. 120V PLUG AND SOCKET	CPD				
4. 120V PLUG AND SOCKET	CPD				
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STORM SHELTER RESTRICTION NOTES	
	1. CONTRACTOR SHALL MAKE NO PENETRATIONS THROUGH THE STORM SHELTER CAP ROOF. 2. PENETRATIONS OF THE STORM SHELTER CAN ONLY BE MADE AT THE EXISTING WALLS LOCATED WITHIN THE MOST BUILDING. 3. PENETRATIONS OF THE STORM SHELTER THAT EXTEND EITHER UP OR DOWN FROM THE STORM SHELTER MUST BE PENETRATED AFTER PENETRATING ITEM IS INSTALLED. REFER TO DRAWING UEA-1

2. PENETRATIONS OF THE STORM SHELTER CAN ONLY BE MADE AT SHELTERS VERTICAL WALLS LOCATED WITHIN THE HOIST BUILDING.
3. PENETRATIONS OF THE STORM SHELTER THAT EXCEED EITHER 2" DIAMETER OR 3-1/2" FOR ANY SIDE OF A RECTANGULAR PENETRATION MUST RECEIVE CONWILING AFTER PENETRATING ITEM IS INSTALLED. REFER TO DRAWING ME4.1



FIRE ALARM GENERAL NOTES	
1	FIRE ALARM SYSTEM AND DEVICES SHALL BE INSTALLED, AS APPLICABLE, TO THE LATEST EDITION OF NFPA 72, NFPA 70, NFPA 12, AND ANY OTHER APPLICABLE CODES AND STANDARDS.

- [illegible]

APP	ABBREVIATIONS
4	4-ADT FISHED FLOOR
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100	100-ADT FISHED FLOOR

IMPORTANT NOTICE

1. INTERIOR WALLS FOR THIS BUILDING ARE CONSTRUCTED OF 8" INSULATED CONCRETE FORM, THE SUBCONTRACTOR SHALL COORDINATE ANY NECESSARY CHANGES TO THE CONCRETE FORMS PRIOR TO THE CONCRETE POUR AND IS THE RESPONSIBILITY OF THE SUBCONTRACTOR WHO REQUIRES THE PENETRATION OR CONCEALMENT.
2. AT EXTERIOR 8" WALLS, ALL AREAS OF 12" FORM INSULATION SHALL BE SPRAY-FOAMED AND RE-INTEGRATED AROUND SUCH INSTALLATION TO RETARD THERMAL TRANSMISSION.

GENERAL ELECTRICAL NOTES	1 THE ELECTRICAL DRAWINGS ARE SCHEMATIC IN NATURE AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT. THE DRAWINGS SHALL NOT BE SCALED UNLESS INDICATED OTHERWISE.
--------------------------	---

- [illegible]

CONDUIT

- 1 ALL CONDUIT SHALL BE EMT AND FMC (UNLESS SPECIFICALLY OTHERWISE INDICATED) WHEN INSTALLED INDOORS IN DRY LOCATIONS.
- 2 WHEN INSTALLED OUTDOOR OR INDOORS IN DAMP/WET LOCATIONS, RMC AND LFMC.
3. MEDIUM EXPOSED OUTDOORS: RMC OR BUC-40 WHEN INSTALLED IN COMPOSITE OR BSI CON

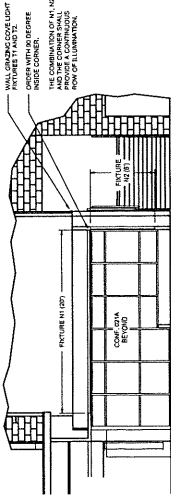
- [illegible]

- 1 THE CONTRACTOR SHALL FURNISH AND INSTALL LABELING ON ELECTRICAL DISTRIBUTION EQUIPMENT TO INDICATE MAXIMUM AVAILABLE FAULT CURRENT AS REQUIRED BY NEC 110.24.
- 2 EACH WIRING DEVICE (RECEPTACLES AND LIGHTING CONTROLS) SHALL BE LABELED AT THE FACEPLATE. EACH LABEL SHALL CONSIST OF THE PANEL NAME AND CIRCUIT NUMBER.

- NUMBER. THE CONNECTORS SHALL BE A MINIMUM OF 3/8" DIA. BOLT CIRCULATED THROUGH THE JOINTS.
- 2 ALL GUTTER RECEPTACLES SHALL BE INSTALLED IN READILY ACCESSIBLE LOCATIONS. ALL RECEPTACLES SHALL INCLUDE FROM NUMBER 10 THROUGH 12 GAUGE AND SHALL BE APPROVED BY ARCHITECT AND OWNER. ARCHITECT AND OWNER'S WRITTEN APPROVAL SHALL BE OBTAINED PRIOR TO INSTALLATION. RECEPTACLES SHALL BE INSTALLED IN ALL PANELS, STARTERS, DISCONNECTS, AND ETC.
- 3 CONTRACTOR SHALL BE RESPONSIBLE FOR RECEPTACLE HEIGHTS LOCATED IN RECEPTACLE AREAS. CONTRACTOR SHALL PROVIDE ALL DIMENSIONS FOR CONNECTOR DETAILS. FIELD COORDINATE ALL HEIGHTS.
- 4 ALL GUTTER RECEPTACLES SHALL BE INSTALLED IN READILY ACCESSIBLE LOCATIONS. ALL RECEPTACLES SHALL INCLUDE FROM NUMBER 10 THROUGH 12 GAUGE AND SHALL BE APPROVED BY ARCHITECT AND OWNER. ARCHITECT AND OWNER'S WRITTEN APPROVAL SHALL BE OBTAINED PRIOR TO INSTALLATION. RECEPTACLES SHALL BE INSTALLED IN ALL PANELS, STARTERS, DISCONNECTS, AND ETC.
- 5 WEATHER-RESISTANT RATED FOR REQUIREMENTS OF NEC ARTICLE 408 AND SHALL BE WEATHER-RESISTANT RATED AT EXTERIOR BUILDING LOCATIONS SHALL BE WEATHER-RESISTANT RATED.
- 6 ALL RECEPTACLES TO BE INSTALLED SHALL BE TAMPER-RESISTANT TYPE.
- 7 ALL RECEPTACLES SHALL BE INSTALLED IN READILY ACCESSIBLE LOCATIONS.

1. CONTRACTOR SHALL SUPPLY, INSTALL, AND CONNECT TIME CLOCK AND REQUIRED CONTROLS LOCATED IN MECHANICAL ROOM. CONTRACTOR SHALL ROUTE ALL OUTSIDE LIGHT CIRCUITS THROUGH TIME CLOCK AND REQUIRED CONTROLS.

- ¹ TAKE NOTE OF THE STORM SHELTER BOUNDARY. ALL PENETRATIONS OF THE STORM SHELTER MUST BE PROTECTED WITH COWLINGS IN COMPLIANCE WITH ICC 500-2014 STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS.



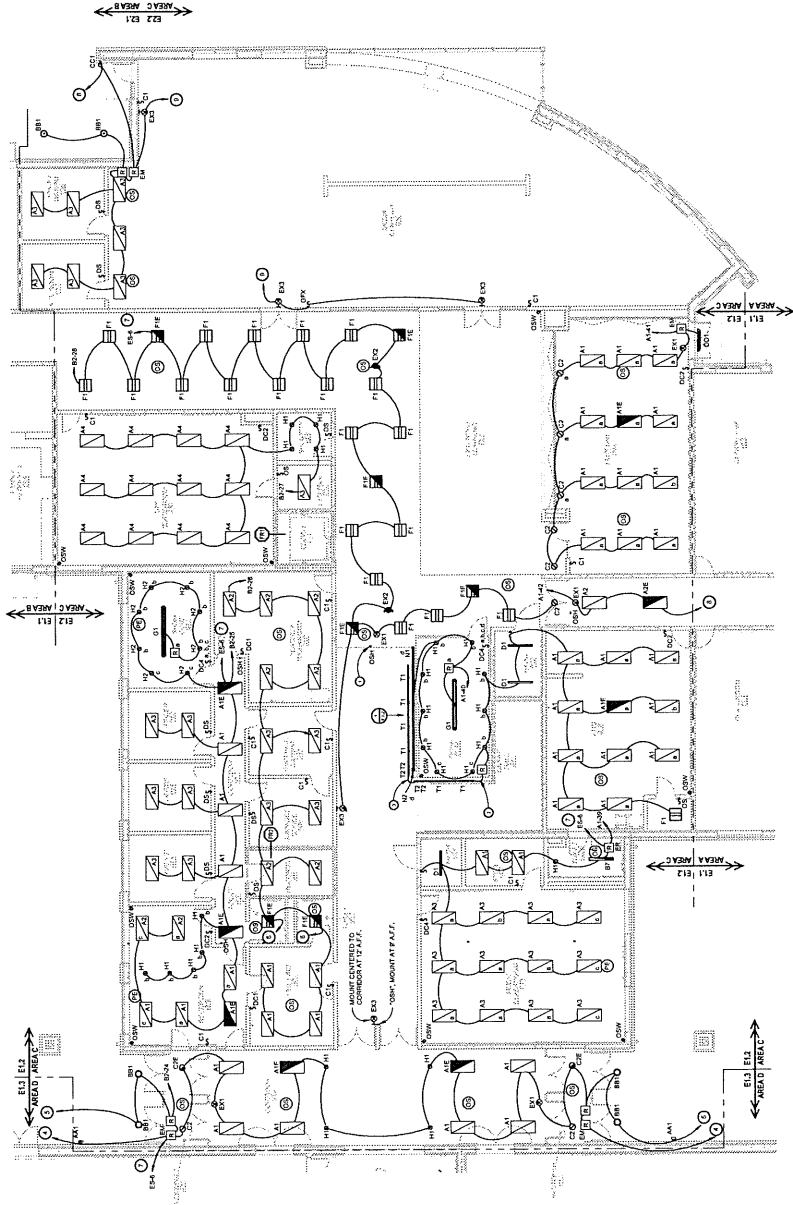
NOTE:
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1 GREAT HALL DETAIL

SCALE 1/8\"/>

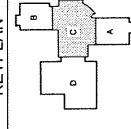
ELECTRICAL CONSTRUCTION TAG NOTES

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FLOOR PLAN - AREA C
SCALE 1/8\"/>

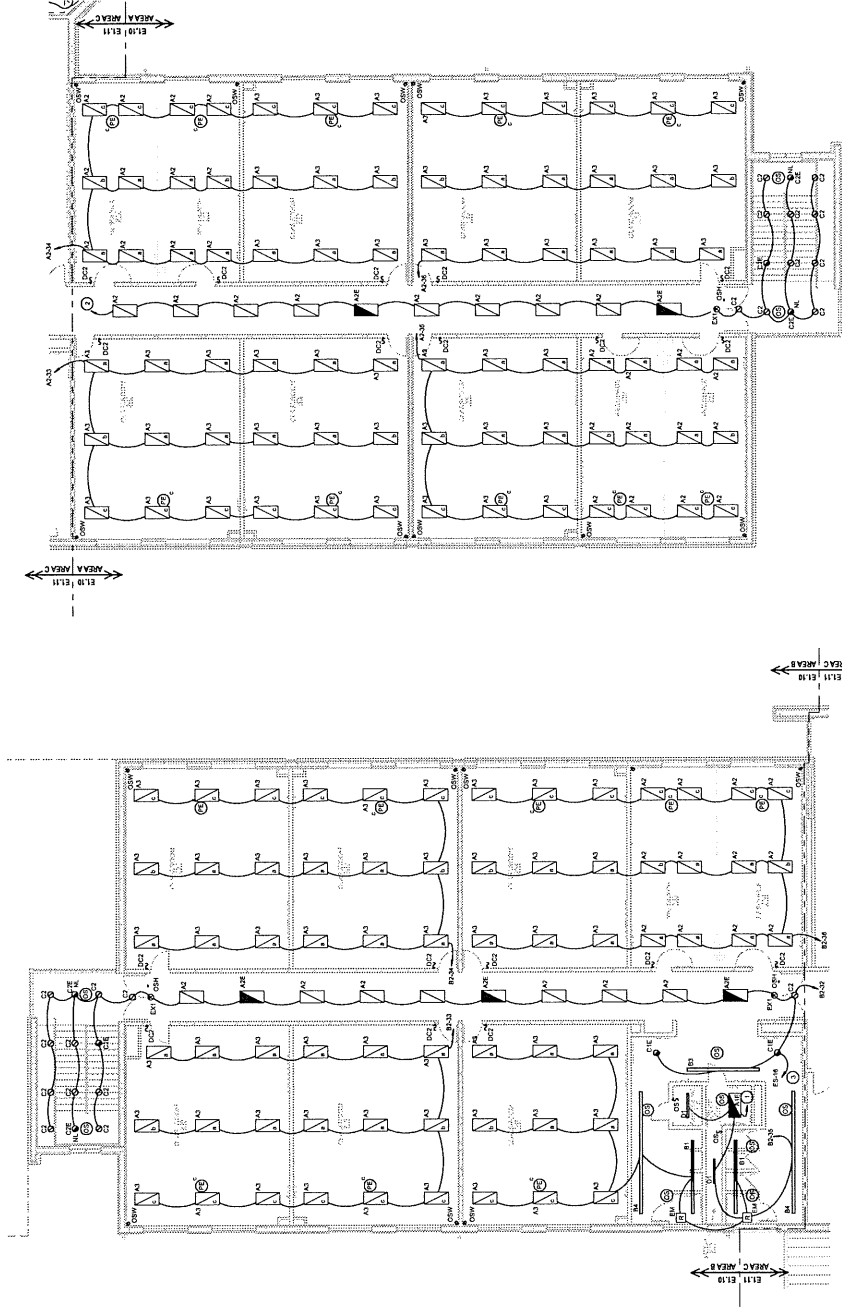
KEYPLAN



CLASSIFIED ASSEMBLY LEGEND

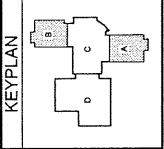
SYMBOL	DESCRIPTION	REQUIRED WORK
[Symbol]	2 IN. F.P.W. ASSEMBLY	FE ALL PENETRATIONS, INSTALL AND IN SITUATION (SEE SECTION 7.1.1)
[Symbol]	1 IN. F.P.W. ASSEMBLY	FE ALL PENETRATIONS, INSTALL AND IN SITUATION (SEE SECTION 7.1.1)
[Symbol]	2 IN. F.P.W. ASSEMBLY	FE ALL PENETRATIONS, INSTALL AND IN SITUATION (SEE SECTION 7.1.1)
[Symbol]	5 IN. F.P.W. ASSEMBLY (FOR RECORDS ROOM ONLY)	FE ALL PENETRATIONS, INSTALL AND IN SITUATION (SEE SECTION 7.1.1)
[Symbol]	ATD - AUTOMATIC FIRE DAMPER F.P.W. - FIRE PREVENTION WALL F.S. - FIRE STOP	FE ALL PENETRATIONS AND INSTALL APD FE ALL PENETRATIONS AND INSTALL APD FE ALL PENETRATIONS AND INSTALL APD

- ELECTRICAL**
CONSTRUCTION TAG NOTES
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE ILLINOIS ELECTRICAL CODE (IEC).
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE ILLINOIS ELECTRICAL CODE (IEC) AND THE NATIONAL ELECTRICAL CODE (NEC).
3. ALL WORK SHALL BE IN ACCORDANCE WITH THE ILLINOIS ELECTRICAL CODE (IEC) AND THE NATIONAL ELECTRICAL CODE (NEC).

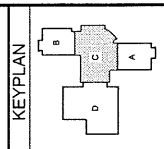


FLOOR PLAN - AREA A
SCALE: 1/8" = 1'-0"

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

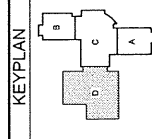


CLASSIFIED ASSEMBLY LEGEND	
SYMBOL	DESCRIPTION
	2' x 4' F.A.W. ASSEMBLY
	1' x 6' F.A.W. ASSEMBLY
	2' x 6' F.A.W. ASSEMBLY
	2' x 8' F.A.W. ASSEMBLY
	2' x 10' F.A.W. ASSEMBLY
	2' x 12' F.A.W. ASSEMBLY
	2' x 14' F.A.W. ASSEMBLY
	2' x 16' F.A.W. ASSEMBLY
	2' x 18' F.A.W. ASSEMBLY
	2' x 20' F.A.W. ASSEMBLY
	2' x 22' F.A.W. ASSEMBLY
	2' x 24' F.A.W. ASSEMBLY
	2' x 26' F.A.W. ASSEMBLY
	2' x 28' F.A.W. ASSEMBLY
	2' x 30' F.A.W. ASSEMBLY
	2' x 32' F.A.W. ASSEMBLY
	2' x 34' F.A.W. ASSEMBLY
	2' x 36' F.A.W. ASSEMBLY
	2' x 38' F.A.W. ASSEMBLY
	2' x 40' F.A.W. ASSEMBLY
	2' x 42' F.A.W. ASSEMBLY
	2' x 44' F.A.W. ASSEMBLY
	2' x 46' F.A.W. ASSEMBLY
	2' x 48' F.A.W. ASSEMBLY
	2' x 50' F.A.W. ASSEMBLY
	2' x 52' F.A.W. ASSEMBLY
	2' x 54' F.A.W. ASSEMBLY
	2' x 56' F.A.W. ASSEMBLY
	2' x 58' F.A.W. ASSEMBLY
	2' x 60' F.A.W. ASSEMBLY
	2' x 62' F.A.W. ASSEMBLY
	2' x 64' F.A.W. ASSEMBLY
	2' x 66' F.A.W. ASSEMBLY
	2' x 68' F.A.W. ASSEMBLY
	2' x 70' F.A.W. ASSEMBLY
	2' x 72' F.A.W. ASSEMBLY
	2' x 74' F.A.W. ASSEMBLY
	2' x 76' F.A.W. ASSEMBLY
	2' x 78' F.A.W. ASSEMBLY
	2' x 80' F.A.W. ASSEMBLY
	2' x 82' F.A.W. ASSEMBLY
	2' x 84' F.A.W. ASSEMBLY
	2' x 86' F.A.W. ASSEMBLY
	2' x 88' F.A.W. ASSEMBLY
	2' x 90' F.A.W. ASSEMBLY
	2' x 92' F.A.W. ASSEMBLY
	2' x 94' F.A.W. ASSEMBLY
	2' x 96' F.A.W. ASSEMBLY
	2' x 98' F.A.W. ASSEMBLY
	2' x 100' F.A.W. ASSEMBLY

[illegible]

PROJECT NORTH
FLOOR PLAN - AREA C
SCALE: 1/8" = 1'-0"

ELECTRICAL		CONSTRUCTION TAG NOTES	
(APPLIES TO THIS DRAWING ONLY)			
1	CLASS 2 POWER CABLE RUN TO AVAILABLE CHANCE IN PANEL. RPDA, RPDA 1.1 LOCATED IN ELEC. YARD.		
2	CLASS 2 DC WIRING (CABLE RUN) TO AVAILABLE CHANCE IN PANEL. RPDA, RPDA 1.1 USED FOR BURGULARY LIGHTING REFERENCE DRAWING E1.12 AND E1.13.		
3	FOR CONTINUATION TO RALLY PACE. REFERENCE DRAWING E1.12 AND MECHANICAL, MEZZANINE 257.		
4	FOR CONTINUATION. REFERENCE DRAWING E1.16.		
5	SHALL BE INTERLOCKED WITH LOCAL LIGHTING CONTROL.		
6	FOR CONTINUATION. REFERENCE DRAWING E1.13.		



CLASSIFIED ASSEMBLY LEGEND		REQUIRED INSTALL
SYMBOL	DESCRIPTION	
	2HR, Low Assembly	PAI ALL PERMANENTLY INSTALLED AND DISCONNECTED TO A NAT'L MORGUAGE RECORDS OFFICE PER H&C SECTION 71
	1HR, Low Assembly	PAI ALL PERMANENTLY INSTALLED AND DISCONNECTED TO A NAT'L MORGUAGE RECORDS OFFICE PER H&C SECTION 71
	2HR, Low Assembly	PAI ALL PERMANENTLY INSTALLED AND DISCONNECTED TO A NAT'L MORGUAGE RECORDS OFFICE PER H&C SECTION 71
	2HR, High Assembly	PAI ALL PERMANENTLY INSTALLED AND DISCONNECTED TO A NAT'L MORGUAGE RECORDS OFFICE PER H&C SECTION 71
	2HR, High Assembly	PAI ALL PERMANENTLY INSTALLED AND DISCONNECTED TO A NAT'L MORGUAGE RECORDS OFFICE PER H&C SECTION 71
	2HR, High Assembly	PAI ALL PERMANENTLY INSTALLED AND DISCONNECTED TO A NAT'L MORGUAGE RECORDS OFFICE PER H&C SECTION 71
	2HR, High Assembly	PAI ALL PERMANENTLY INSTALLED AND DISCONNECTED TO A NAT'L MORGUAGE RECORDS OFFICE PER H&C SECTION 71
	2HR, High Assembly	PAI ALL PERMANENTLY INSTALLED AND DISCONNECTED TO A NAT'L MORGUAGE RECORDS OFFICE PER H&C SECTION 71
	2HR, High Assembly	PAI ALL PERMANENTLY INSTALLED AND DISCONNECTED TO A NAT'L MORGUAGE RECORDS OFFICE PER H&C SECTION 71
	2HR, High Assembly	PAI ALL PERMANENTLY INSTALLED AND DISCONNECTED TO A NAT'L MORGUAGE RECORDS OFFICE PER H&C SECTION 71
	2HR, High Assembly	PAI ALL PERMANENTLY INSTALLED AND DISCONNECTED TO A NAT'L MORGUAGE RECORDS OFFICE PER H&C SECTION 71

PROJECT NORTH
FLOOR PLAN - AREA D
SCALE: 1/8" = 1'-0"

**ELECTRICAL
CONSTRUCTION TAG NOTES**

- | (APPLIES TO THIS DRAWING ONLY) | |
|--------------------------------|--|
| 1 | FOR CONTINUATION TO WALL SWITCH LOCATED IN STORAGE 108, REFERENCE DRAWING E.13. |
| 2 | FOR CONTINUATION TO EXIT SIGN, REFERENCE DRAWING E.13. |
| 3 | EMERGENCY PANEL AND CIRCUIT FOR DUAL PURPOSE FEATURES SERVING GENERAL LIGHTING AND LIFE SAFETY IN THIS REGION. |
| 4 | FOR CONTINUATION TO EXTERIOR LIGHTING CONTROL RELAY LOCATED IN SERVING 00, REFERENCE DRAWING E.13. |
| 5 | FOR CONTINUATION TO EXTERIOR WALL PACKS, REFERENCE DRAWING E.13. |
| 6 | FOR CONTINUATION, REFERENCE DRAWING E.11. |

HANSON ELEMENTARY SCHOOL
HOPKINS COUNTY

AREA D

E1.12

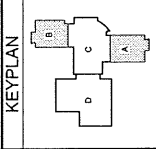
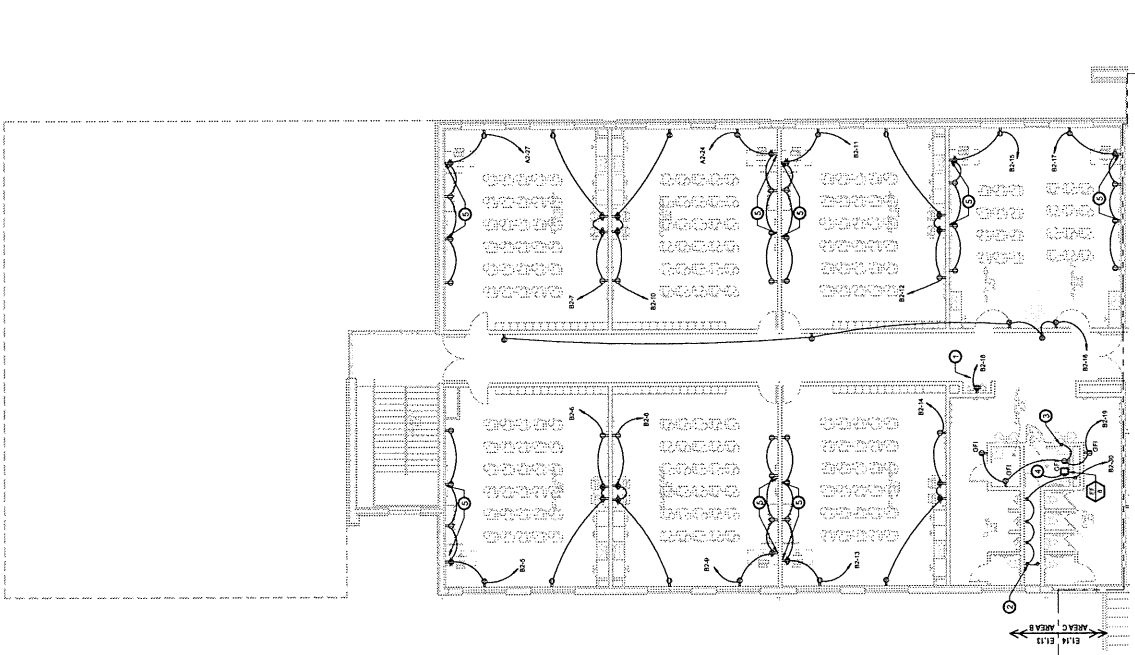
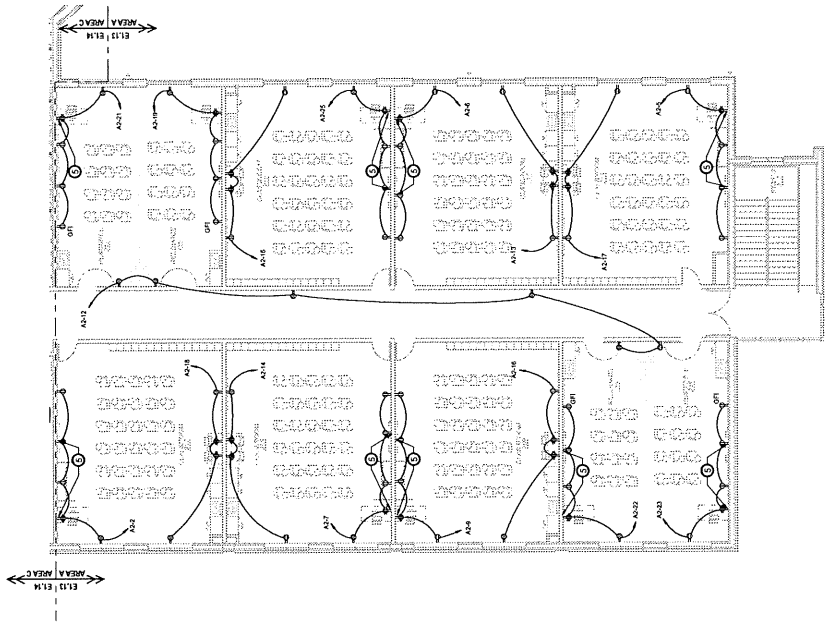


MARCUM ENGINEERING, LLC
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P.O. BOX 41000, KENNESAW, OHIO 44240
PHONE: 216.444.8274
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[illegible]

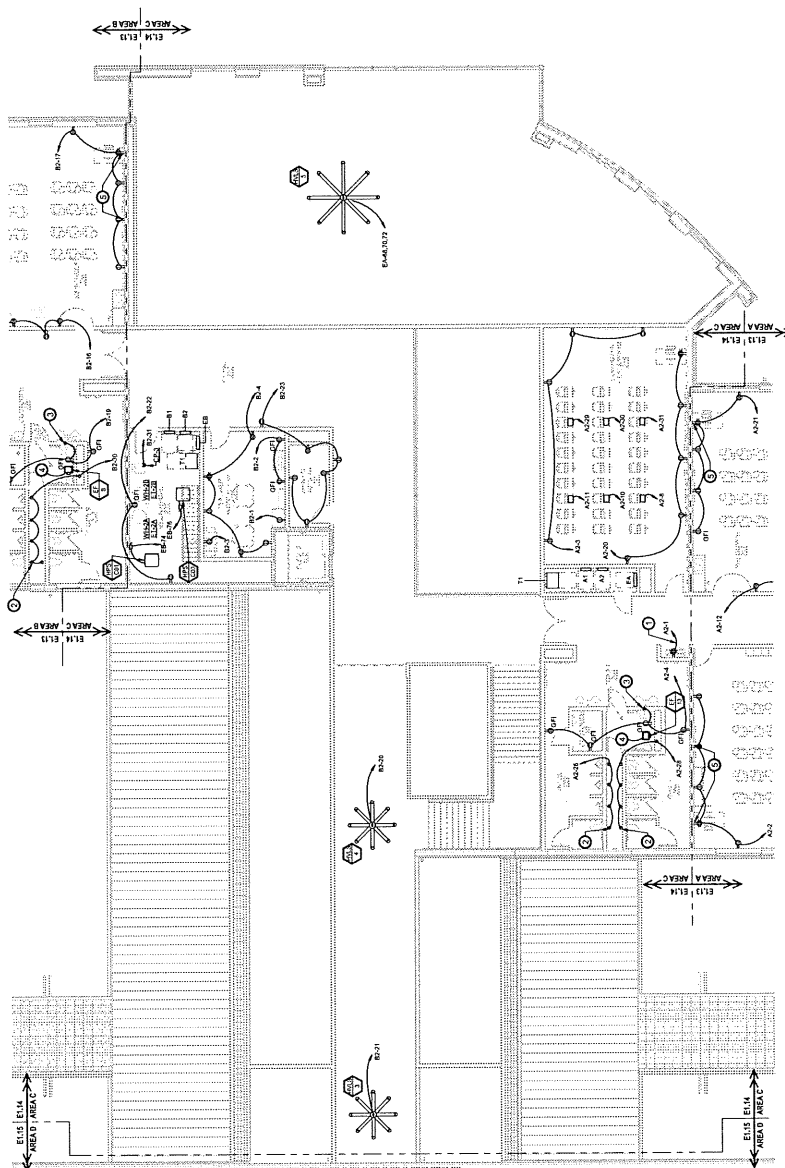
ELECTRICAL
CONSTRUCTION TAG NOTES

- | (APPLIES TO THIS DRAWING ONLY) | |
|--------------------------------|---|
| 1 | PROVIDE ONE MINUTE FOR UNACCESSIBLE RECEPTACLE CIRCUIT |
| 2 | PROVIDE ONE MINUTE FOR UNACCESSIBLE RECEPTACLE CIRCUIT WITH DAMAGED SENSORS, DUALY CHAIN LOW VOLTAGE WIRING TO MAXIMUM OF (8) SENSORS PER CONVENTOR, COORDINATE WITH PLUMBING CONTRACTOR FOR QUANTITY TO BE SUPPLIED. |
| 3 | PROVIDE 1200 POWER CONNECTION TO UNIVERSAL AC TRANSFORMER, CONTROL W/IN TO LOCAL LIGHTING CIRCUIT AND CONTROL WITH LOCAL LIGHTING SWITCH |
| 5 | SEE TEACHER'S PRESENTATION STATION DETAIL FOR POWER AND COMMUNIC. RECONFIGURATIONS. |

[illegible]

(APPLIES TO THIS DRAWING ONLY)

- | | |
|---|---|
| 1 | PROVIDE GFI BREAKER FOR INACCESSIBLE RECEPTACLE CIRCUIT. |
| 2 | PROVIDE 120V POWER CONNECTION TO EACH PLUMBING POWER CONVERTER FOR IRRIGATORS. DAILY CHAIN LOW VOLTAGE WIRING TO MAXIMUM OF (8) SENSORS PER CONVERTER. COORDINATE WITH PLUMBING CONTRACTOR FOR QUANTITY TO BE SUPPLIED. |
| 3 | PROVIDE 120V POWER CONNECTION TO UNIVERSAL AC TRANSFORMER. |
| 4 | CONNECT FAN TO LOCAL LIGHTING CIRCUIT AND CONTROL WITH LOCAL LIGHTING CONTROL. |
| 5 | SEE TECHS PRESENTATION STATION DETAIL FOR POWER AND COMMUNICATION CABLES. |



PROJECT
MARCH
NORTH

FLOOR PLAN - AREA C

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

CLASSIFIED ASSEMBLY LEGEND

SYMBOL	DESCRIPTION	REQUIRED WORK
	2HR. FAW ASSEMBLY	2HR. PERFORMATIONS INSTALL AND INDUCTOR PERFORMATIONS PREPARED TIMES PER SECTION 17
	1HR. FAW ASSEMBLY	1HR. PERFORMATIONS INSTALL AND INDUCTOR PERFORMATIONS PREPARED TIMES PER SECTION 17
	2HR. FAW ASSEMBLY	2HR. PERFORMATIONS INSTALL AND INDUCTOR PERFORMATIONS PREPARED TIMES PER SECTION 17
	3HR. FAW HORIZONTAL (PER RECORDS BOOK ONLY)	3HR. PERFORMATIONS INSTALL AND INDUCTOR PERFORMATIONS PREPARED TIMES PER SECTION 17
	FAW PRELIM TIE	FAW PRELIM TIE
	FAW PRELIM TIE	FAW PRELIM TIE

E1.14

198H

POWER SECOND FLOOR PLAN AREA C

HANSON ELEMENTARY SCHOOL

HOPKINS COUNTY



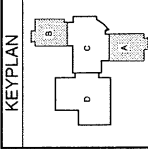
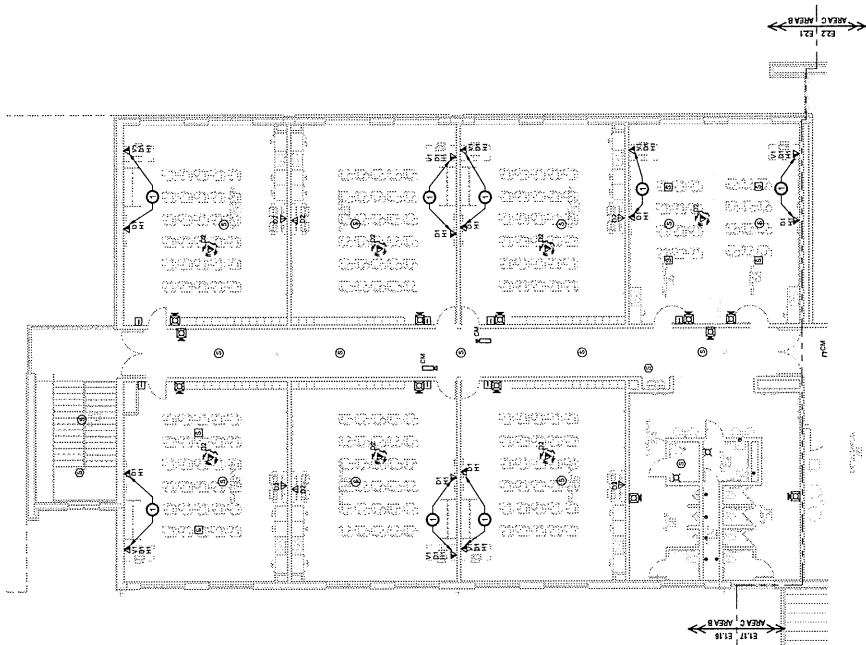
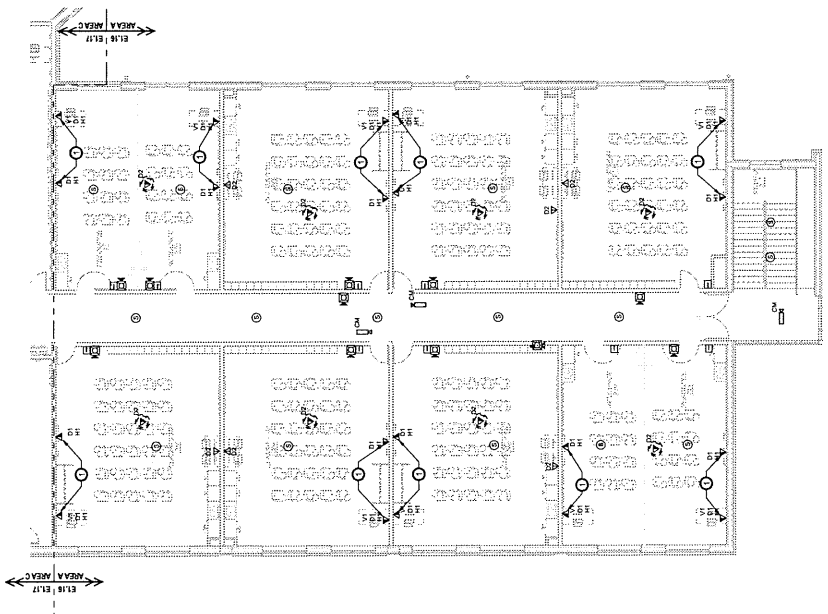
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E1.15

**ELECTRICAL
CONSTRUCTION TAG NOTES**

(APPLIES TO THIS DRAWING ONLY)



SYMBOL	DESCRIPTION	REQUIRED WORK
	2ND FLOOR RAW ASSEMBLY	PER ALL INFORMATION, THE WORK SHALL BE IN ACCORDANCE WITH THE 2ND FLOOR SECTION 12
	1ST FLOOR RAW ASSEMBLY	PER ALL INFORMATION, THE WORK SHALL BE IN ACCORDANCE WITH THE 1ST FLOOR SECTION 12
	2ND FLOOR HORIZONTAL RAW ASSEMBLY (FOR INFORMATION ONLY)	PER ALL INFORMATION, THE WORK SHALL BE IN ACCORDANCE WITH THE 2ND FLOOR SECTION 12
	2ND FLOOR HORIZONTAL RAW ASSEMBLY (FOR INFORMATION ONLY)	PER ALL INFORMATION, THE WORK SHALL BE IN ACCORDANCE WITH THE 2ND FLOOR SECTION 12
	2ND FLOOR HORIZONTAL RAW ASSEMBLY (FOR INFORMATION ONLY)	PER ALL INFORMATION, THE WORK SHALL BE IN ACCORDANCE WITH THE 2ND FLOOR SECTION 12

PROJECT
NORTH

SECOND FLOOR PLAN - AREA C

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



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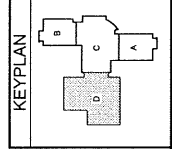
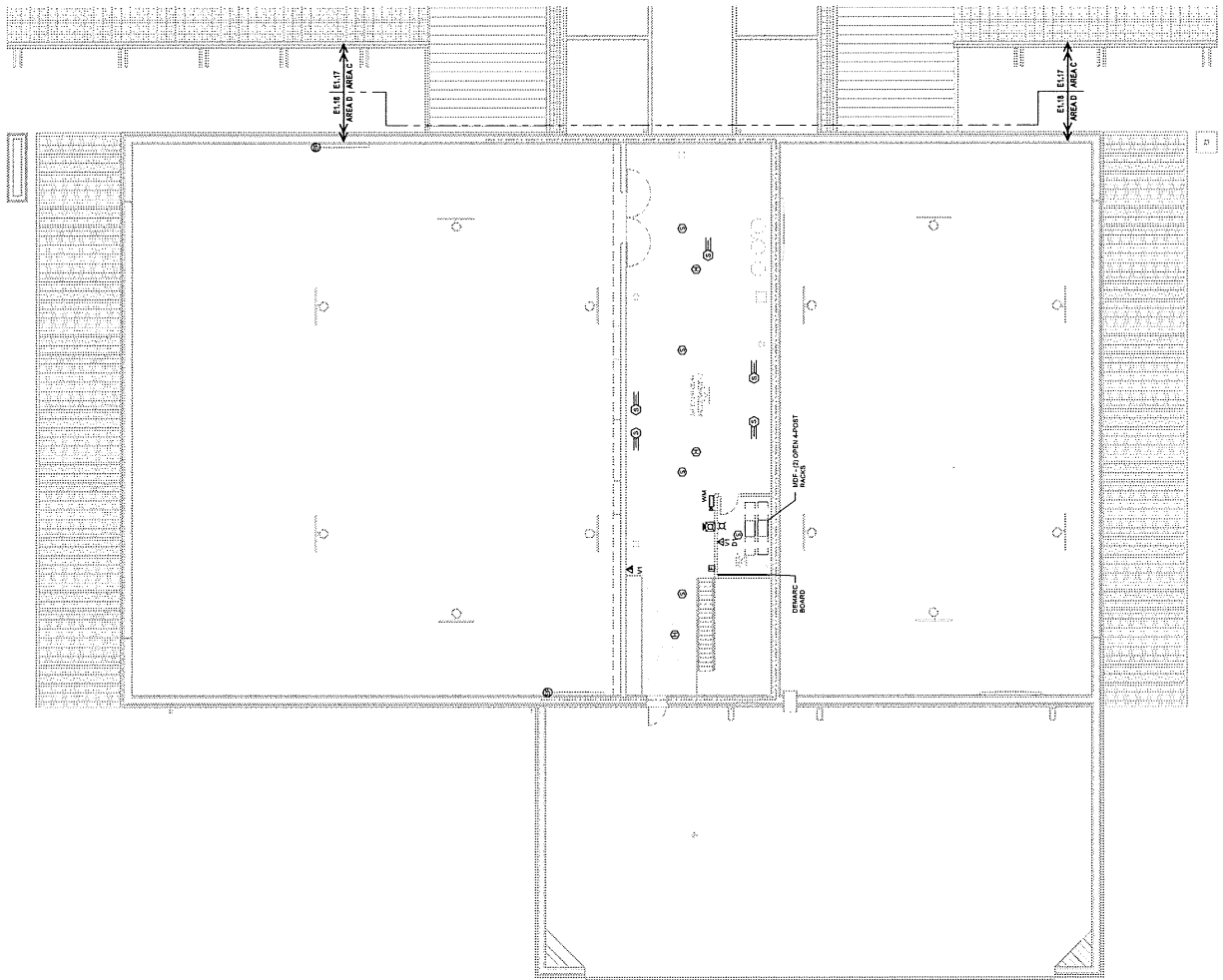
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HOPKINS COUNTY

SPECIAL SYSTEMS FIRST FLOOR PLAN
AREA D

NO.	DATE	BY	CHK	APP
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3	07/22/20	DM	DM	DM
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19	07/22/20	DM	DM	DM
20	07/22/20	DM	DM	DM

SHEET
E1.18

ELECTRICAL
CONSTRUCTION TAG NOTES
(APPLIES TO THIS DRAWING ONLY)



CLASSIFIED ASSEMBLY LEGEND	
SYMBOL	DESCRIPTION
(1)	2 IN. T&B ASSEMBLY
(2)	1 IN. T&B ASSEMBLY
(3)	2 IN. T&B ASSEMBLY
(4)	2 IN. T&B ASSEMBLY
(5)	2 IN. T&B ASSEMBLY
(6)	2 IN. T&B ASSEMBLY
(7)	2 IN. T&B ASSEMBLY
(8)	2 IN. T&B ASSEMBLY
(9)	2 IN. T&B ASSEMBLY
(10)	2 IN. T&B ASSEMBLY
(11)	2 IN. T&B ASSEMBLY
(12)	2 IN. T&B ASSEMBLY
(13)	2 IN. T&B ASSEMBLY
(14)	2 IN. T&B ASSEMBLY
(15)	2 IN. T&B ASSEMBLY
(16)	2 IN. T&B ASSEMBLY
(17)	2 IN. T&B ASSEMBLY
(18)	2 IN. T&B ASSEMBLY
(19)	2 IN. T&B ASSEMBLY
(20)	2 IN. T&B ASSEMBLY

PROJECT
LOCATION
DATE: 07/22/20

SECOND FLOOR PLAN - AREA D



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HANSON ELEMENTARY SCHOOL
HOPKINS COUNTY

ELECTRICAL SERVICE PLATFORM
AREAS A AND B

JOB NO.	1818
DATE	JULY 27, 2020
DRAWN	AJWAL
CHECKED	CHIEF
CONTRACTOR'S JOB SHERMAN CENTER BANQUET ARCHITECTS P.L.C.	

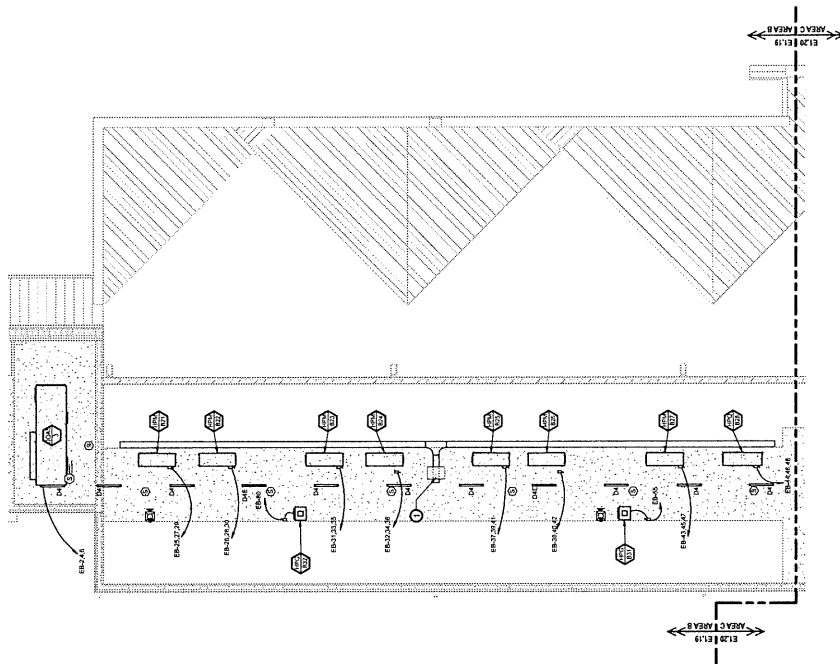
E1.19

ELECTRICAL
CONSTRUCTION TAG NOTES

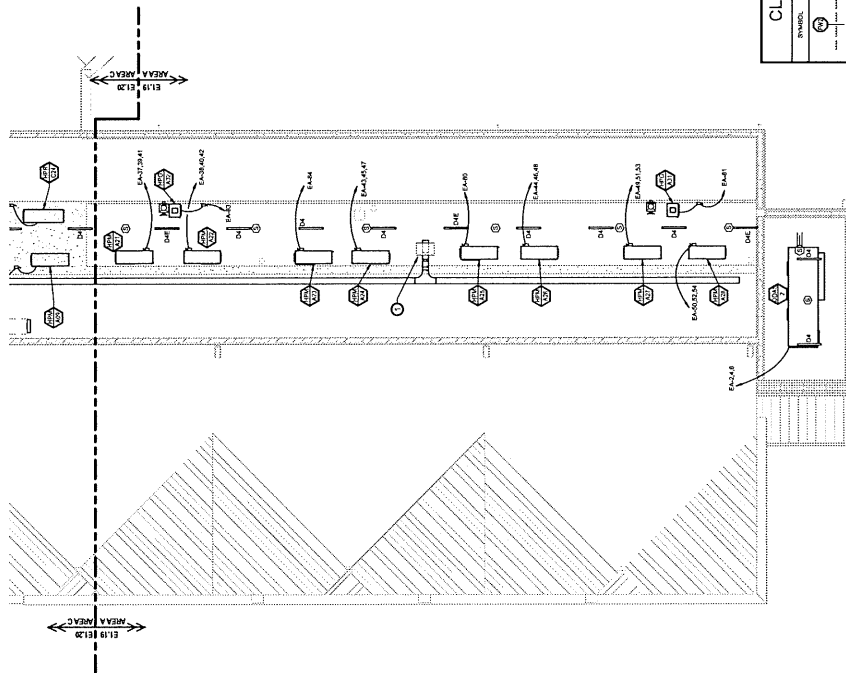
(APPLIES TO THIS DRAWING ONLY)

Q

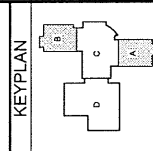
1	4-POST IDF RACK WITH LOCKABLE DOOR,
---	-------------------------------------



PROJECT NORTH
FLOOR PLAN - AREA B
SCALE: 1/8" = 1'-0"



PROJECT NORTH
FLOOR PLAN - AREA A
SCALE: 1/8" = 1'-0"



CLASSIFIED ASSEMBLY LEGEND

[illegible]



1	KITCHEN FAN RECEPTACLE PRESET/STAY, REFER TO DETAIL FOR ADDITIONAL INFORMATION.
2	CONNECT TAP TO LOCAL LIGHTING CIRCUIT AND CONTROL WITH LOCAL LIGHTING SWITCH.
3	CONNECT DOOR LATCH FROM CORRESPONDING OUTDOOR LATCH.
4	PROVIDE CORD AND WIRE TIE PLUG FOR EQUIPMENT LEADS IN CONFORMANCE WITH MANUFACTURER FOR REQUIRED PLUG. COORDINATE THE CORD LENGTH WITH THE EQUIPMENT, AND PROVIDE ADDITIONAL 3' FOR EQUIPMENT ADJUSTMENTS.
5	EXTEND 12V TO COOLER AND FREEZER COMPONENTS (LIGHTS, ETC.)
6	PROVIDE FOR HOOD LIGHTS.
7	PROTECT HOOD SWITCH OFF PUSH BUTTON. REFER TO EAST/DET DETAIL FOR CONFORMANCE WITH LOCAL ELECTRICAL CODES.
8	DATA CONNECTIONS FOR EQUIPMENT MONITORING.
9	PROVIDE THE ALARM CONNECTION TO HOOD FAN, SUPPLY/EXHAUST SYSTEM.

A schematic diagram of a four-bar linkage mechanism. It consists of four rigid links connected by four revolute (pin) joints. The joints are labeled A, B, C, and D. Link 1 is the fixed frame, represented by a shaded L-shaped region. Link 2 is a horizontal link connected at joints A and B. Link 3 is a vertical link connected at joints B and C. Link 4 is a horizontal link connected at joints C and D. The joints are arranged in a closed loop: A-B-C-D-A.

[illegible]

E2.1

HANSON ELEMENTARY SCHOOL
HOPKINS COUNTY

ELECTRICAL ENLARGED KITCHEN FLOOR PLAN

[illegible]

E2.1

ELECTRICAL FEEDER SCHEDULE (CU)

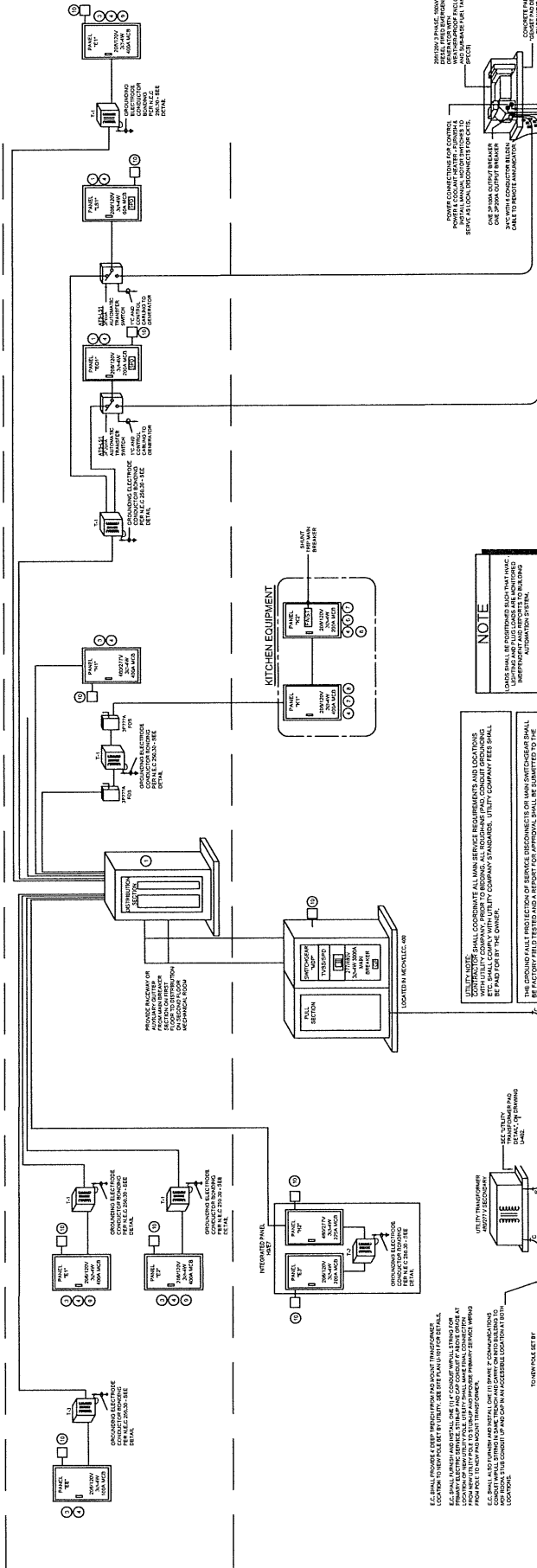
[illegible]

* EQUIPMENT PROVIDED FOR ELECTRICAL CONNECTIONS - TYPICALLY TYPE 110-V FOR CIRCUITS RATED 10A OR LESS. WIRE SIZES ARE BASED ON TYPE "THIN" COPPER CONDUCTORS, WITH NOT MORE THAN THREE CURRENT CARRYING CONDUCTORS IN RACEWAY. DENSITIES PER TABLE 310.15 ARE APPLICABLE.

CONSTRUCTION NOTES

- APPLIED TO THIS DRAWING ONLY
1. **ALL DIMENSIONS SHALL BE IN INCHES UNLESS OTHERWISE SPECIFIED.**
 2. **ALL MATERIALS SHALL BE NEW, UNLESS OTHERWISE SPECIFIED.**
 3. **ALL MATERIALS SHALL BE OF THE HIGHEST QUALITY AVAILABLE.**
 4. **ALL MATERIALS SHALL BE OF THE HIGHEST QUALITY AVAILABLE.**
 5. **ALL MATERIALS SHALL BE OF THE HIGHEST QUALITY AVAILABLE.**
 6. **ALL MATERIALS SHALL BE OF THE HIGHEST QUALITY AVAILABLE.**
 7. **ALL MATERIALS SHALL BE OF THE HIGHEST QUALITY AVAILABLE.**
 8. **ALL MATERIALS SHALL BE OF THE HIGHEST QUALITY AVAILABLE.**
 9. **ALL MATERIALS SHALL BE OF THE HIGHEST QUALITY AVAILABLE.**
 10. **ALL MATERIALS SHALL BE OF THE HIGHEST QUALITY AVAILABLE.**

TAG	XTMR T-1 (NEMA I)
400V, 3-PHASE, DELTA PRIMARY	
250/120V, 2-PHASE, WYE SECONDARY	
110/2 KVA	
[SEE SPECIFICATIONS]	
TAG	XTMR T-2 (NEMA I)
400V, 3-PHASE, DELTA PRIMARY	
200/120V, 2-PHASE, WYE SECONDARY	
15 KVA	
[SEE SPECIFICATIONS]	
TAG	XTMR T-3 (NEMA I)
400V, 3-PHASE, DELTA PRIMARY	
200/120V, 2-PHASE, WYE SECONDARY	
30 KVA	
[SEE SPECIFICATIONS]	



NOTE

LOADS SHALL BE POSITIONED SUCH THAT HVAC LIGHTING AND PLUG LOADS ARE MONITORED INDEPENDENT AND REPORTS TO BUILDING AUTOMATION SYSTEM.

UTILITY NOTE: _____

CONTRACTOR SHALL COORDINATE ALL MAIN SERVICE REQUIREMENTS AND LOCATIONS WITH UTILITY COMPANY, PRIOR TO BIDDING, ALL ROUGH-INS (PAD, CONDUIT GROUNDING ETC. SHALL COMPLY WITH UTILITY COMPANY STANDARDS. UTILITY COMPANY FEES SHALL BE PAID FOR BY THE OWNER.

THE GROUND FAULT PROTECTION OF SERVICE DISCONNECTS OR MAIN SWITCHGEAR SHALL

BE FACTORY FIELD TESTED AND A REPORT FOR APPROVAL SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION AND TO THE ENGINEER - FOLLOW NEC 220.9F. TESTING SHALL BE DEEMED APPROPRIATE BY THE AUTHORITY HAVING JURISDICTION.

ELECTRICAL RISER DIAGRAM

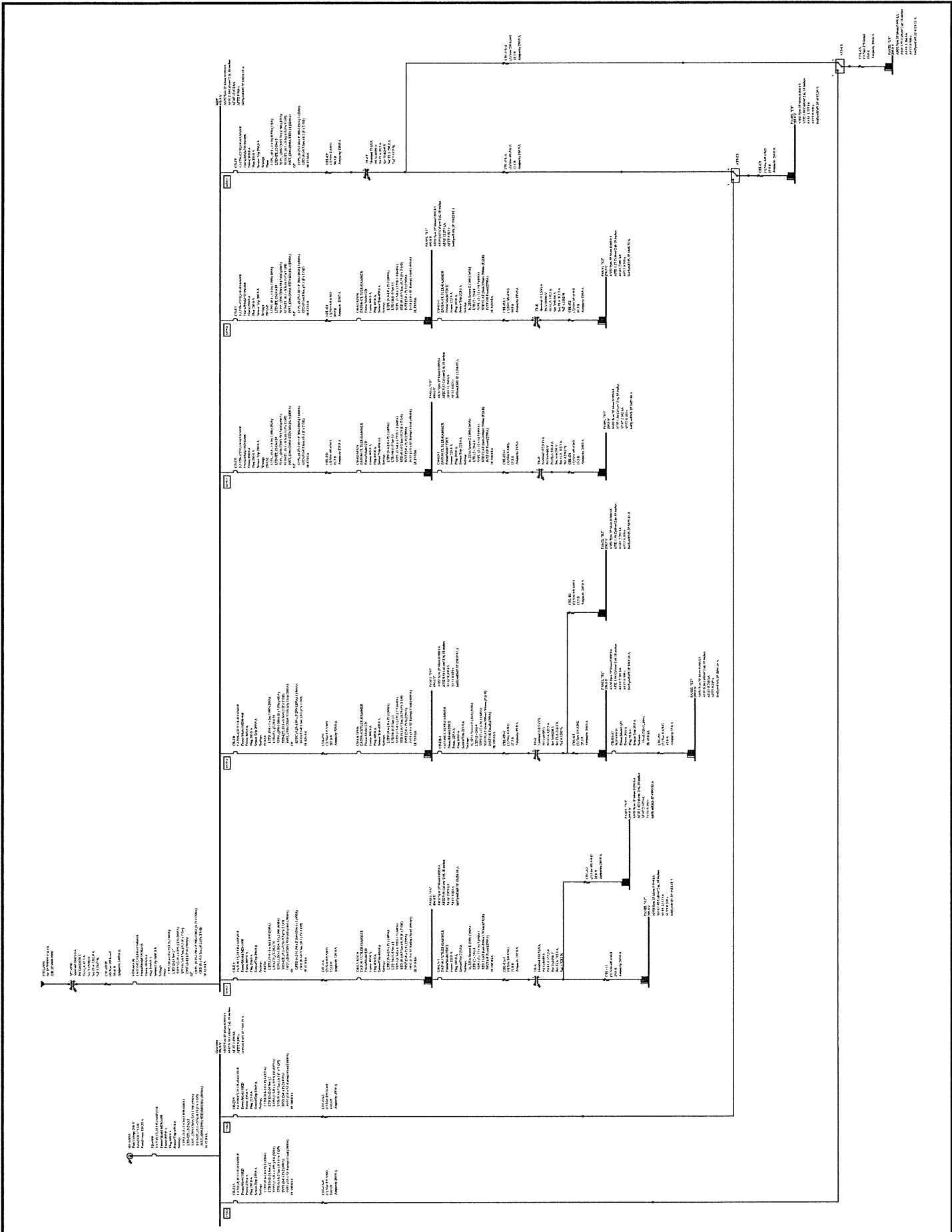
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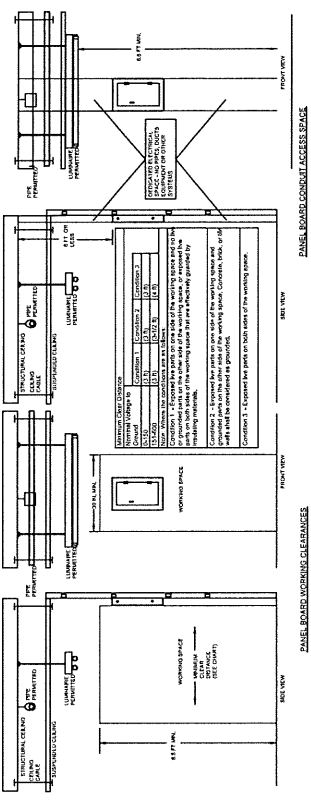


E3.2
SHEET

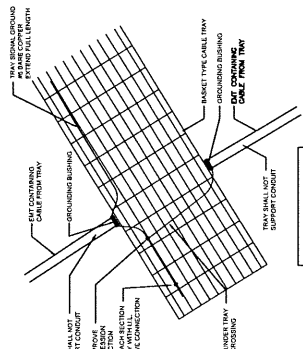
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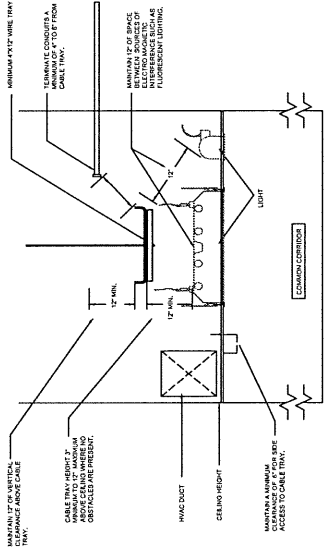
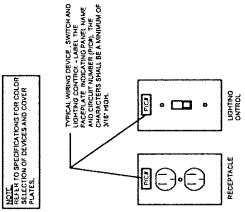
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5	REVISED FOR COMMENTS	08/12/2014			
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88	REVISED FOR COMMENTS	03/13/2016			
89	REVISED FOR COMMENTS	03/20/2016			
90	REVISED FOR COMMENTS	03/27/2016			
91	REVISED FOR COMMENTS	04/03/2016			
92	REVISED FOR COMMENTS	04/10/2016			
93	REVISED FOR COMMENTS	04/17/2016			
94	REVISED FOR COMMENTS	04/24/2016			
95	REVISED FOR COMMENTS	05/01/2016			
96	REVISED FOR COMMENTS	05/08/2016			
97	REVISED FOR COMMENTS	05/15/2016			
98	REVISED FOR COMMENTS	05/22/2016			
99	REVISED FOR COMMENTS	05/29/2016			
100	REVISED FOR COMMENTS	06/05/2016			



PANEL BOARD NEC CLEARANCES

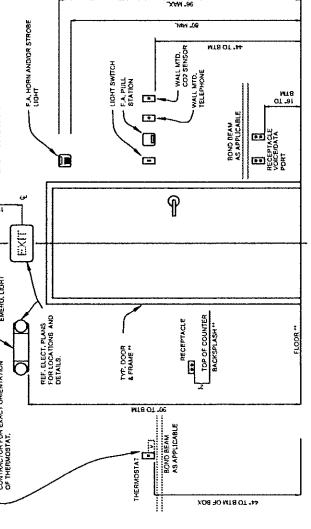


ELECTRICAL WIRING
DEVICE IDENTIFICATION

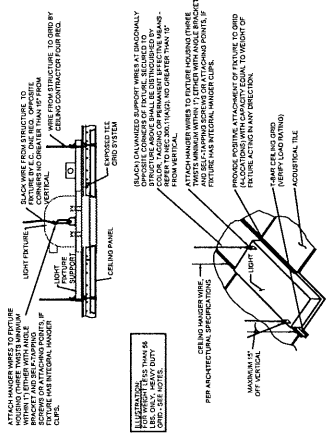
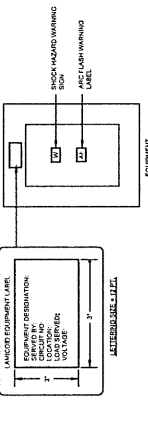


MINIMUM CABLE TRAY CLEARANCES

TYPICAL DEVICE MOUNTING HEIGHT DETAIL



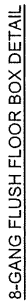
ELECTRICAL EQUIPMENT LABEL IDENTIFICATION



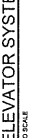
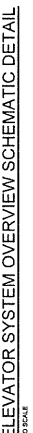
1. FIXTURE SHALL BE ATTACHED TO THE CEILING OR RUNNER WITH HORIZONTAL CLIPS. BRACKET TO RESIST A HORIZONTAL...
2. ALL RECESSED LIGHT FIXTURES INCLUDING ALL DIMENSIONAL DETAILS SHALL BE IDENTIFIED BY...
3. ALL RECESSED LIGHT FIXTURES INCLUDING ALL DIMENSIONAL DETAILS SHALL BE IDENTIFIED BY...
4. ALL RECESSED LIGHT FIXTURES INCLUDING ALL DIMENSIONAL DETAILS SHALL BE IDENTIFIED BY...
5. BE CAPABLE OF SUPPORTING THE WEIGHT OF THE FIXTURE.
6. REFER TO SEISMIC SPECIFICATIONS FOR ADDITIONAL INFORMATION.

LAY-IN FIXTURE SEISMIC SUPPORT DETAIL

LAY



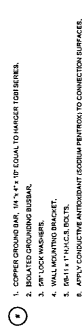
CONFERENCE FLAT PANEL MONITOR DETAIL



GYPSUM FIRE PENETRATION DETAIL

[illegible][illegible]

GROUNDING SYSTEM DIAGRAM
NO SCALE



GENERAL GROUNDING NOTES

GENERAL NOTES	SPECIAL NOTES
1. THE INFORMATION ABOVE SHALL BE CONSIDERED TO BE THE MECHANICAL EQUIPMENT AS A SAVED ACTUAL EQUIPMENT REQUIREMENTS SHALL TAKE PRECEDENCE OVER THE LISTED INFORMATION. CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT REQUIREMENTS.	
2. THE SCHEDULES AND BILLS OF MATERIALS SHALL BE LIMITED TO THE EQUIPMENT LISTED ON THIS PROJECT. COORDINATE WITH ALL TRADES AND PROVIDE MANUALS WITHIN MANUAL REQUIREMENTS FOR ALL EQUIPMENT INSTALLED. THIS SCHEDULE IS NOT TO ANY QUANTITY OF EQUIPMENT.	
3. REFER TO DRAWING GROUP OF REFERENCED PLAN, FOR CIRCUIT BREAKER SIZE.	
4. ALL STEERING/RYTHM/CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH U.E.C. ARTICLE 415.4 (B) (4) - MAINTAIN WORKING CLEARANCES.	
5. ALL ELECTRIFICATION TO UNITS SHALL BE PROTECTED AGAINST FIRE AND GAS CONDITIONS. ALL ELECTRICAL WIRING SHALL BE PROTECTED AGAINST THE INSTALLATION CONDITIONS. FIELD VEHICULAR PROTECTORS TO GROUND.	
6. CONTRACTOR TO PROVIDE ALL ELECTRICAL AND MECHANICAL EQUIPMENT. EQUIPMENT COORDINATE WITH THE MECHANICAL EQUIPMENT AND THE MECHANICAL EQUIPMENT.	
SPECIAL NOTES:	
A. CONTRACTOR SHALL FURNISH AND INSTALL INCORPORATED DISCONNECT SWITCH. DISCONNECT SHALL BE INSTALLED ADJACENT TO UNIT.	
B. PROVIDE A MAIN ELECTRICAL PANEL AND ALL ELECTRICAL WIRING TO BE INSTALLED IN ACCORDANCE WITH THE MECHANICAL EQUIPMENT. DISCONNECT SWITCH SHALL BE INTERLOCKED WITH MAIN AND FIELD ALARM SYSTEM TO SHUT DOWN THE MAIN ELECTRICAL PANEL AND ALL ELECTRICAL WIRING TO BE INSTALLED IN ACCORDANCE WITH THE MECHANICAL EQUIPMENT.	
C. UNIT PROVIDED WITH DISCONNECT SWITCH FOR EACH UNIT.	
D. UNIT PROVIDED WITH DISCONNECT SWITCH FOR EACH UNIT.	
E. UNIT PROVIDED WITH DISCONNECT SWITCH FOR EACH UNIT.	
F. UNIT PROVIDED WITH DISCONNECT SWITCH FOR EACH UNIT.	
G. UNIT SHALL BE INTEGRATED INTO THE FIRE ALARM SYSTEM TO STOP OPERATION UPON ACTIVATION OF THE FIRE ALARM SYSTEM.	
H. UNIT PROVIDED WITH DISCONNECT SWITCH. DISCONNECT SHALL BE INSTALLED IN FIELDY CABINET FOR EACH UNIT.	
I. UNIT PROVIDED WITH DISCONNECT SWITCH. DISCONNECT SHALL BE INSTALLED IN FIELDY CABINET FOR EACH UNIT.	
J. UNIT SHALL BE INTERLOCKED TO SHUT DOWN MAIN ELECTRICAL PANEL. DISCONNECT SWITCH SHALL BE INSTALLED IN FIELDY CABINET FOR EACH UNIT.	
K. UNIT SHALL BE INTERLOCKED TO SHUT DOWN MAIN ELECTRICAL PANEL. DISCONNECT SWITCH SHALL BE INSTALLED IN FIELDY CABINET FOR EACH UNIT.	
L. UNIT SHALL BE INTERLOCKED TO SHUT DOWN MAIN ELECTRICAL PANEL. DISCONNECT SWITCH SHALL BE INSTALLED IN FIELDY CABINET FOR EACH UNIT.	
M. UNIT PROVIDED WITH DISCONNECT SWITCH. DISCONNECT SHALL BE INSTALLED IN FIELDY CABINET FOR EACH UNIT.	
N. UNIT PROVIDED WITH DISCONNECT SWITCH. DISCONNECT SHALL BE INSTALLED IN FIELDY CABINET FOR EACH UNIT.	
O. UNIT PROVIDED WITH DISCONNECT SWITCH. DISCONNECT SHALL BE INSTALLED IN FIELDY CABINET FOR EACH UNIT.	
P. UNIT PROVIDED WITH DISCONNECT SWITCH. DISCONNECT SHALL BE INSTALLED IN FIELDY CABINET FOR EACH UNIT.	
Q. UNIT PROVIDED WITH DISCONNECT SWITCH. DISCONNECT SHALL BE INSTALLED IN FIELDY CABINET FOR EACH UNIT.	
R. UNIT PROVIDED WITH DISCONNECT SWITCH. DISCONNECT SHALL BE INSTALLED IN FIELDY CABINET FOR EACH UNIT.	
S. UNIT PROVIDED WITH DISCONNECT SWITCH. DISCONNECT SHALL BE INSTALLED IN FIELDY CABINET FOR EACH UNIT.	
T. UNIT PROVIDED WITH DISCONNECT SWITCH. DISCONNECT SHALL BE INSTALLED IN FIELDY CABINET FOR EACH UNIT.	
U. UNIT PROVIDED WITH DISCONNECT SWITCH. DISCONNECT SHALL BE INSTALLED IN FIELDY CABINET FOR EACH UNIT.	
V. UNIT PROVIDED WITH DISCONNECT SWITCH. DISCONNECT SHALL BE INSTALLED IN FIELDY CABINET FOR EACH UNIT.	
W. UNIT PROVIDED WITH DISCONNECT SWITCH. DISCONNECT SHALL BE INSTALLED IN FIELDY CABINET FOR EACH UNIT.	
X. UNIT PROVIDED WITH DISCONNECT SWITCH. DISCONNECT SHALL BE INSTALLED IN FIELDY CABINET FOR EACH UNIT.	
Y. UNIT PROVIDED WITH DISCONNECT SWITCH. DISCONNECT SHALL BE INSTALLED IN FIELDY CABINET FOR EACH UNIT.	
Z. UNIT PROVIDED WITH DISCONNECT SWITCH. DISCONNECT SHALL BE INSTALLED IN FIELDY CABINET FOR EACH UNIT.	

VENTILATING EQUIPMENT CONNECTION SCHEDULE												
ITEM #	DESCRIPTION	VOLTAGE/PHASE	LOCATION	REC DATA		CONNECTIONS			TEMPERATURE CONTROL			REMARKS/NOTES
				LOAD	UNITS	CONDUIT	LINE	WUFU	ON/OFF	SWITCH		
BP-1	EXHAUST FAN	120V1	TOILET 04	20	W	10"	12	12	12	X		P.O.R.
BP-2	EXHAUST FAN	120V1	TOILET 05	15	W	10"	12	12	12	X		P.O.R.
BP-3	EXHAUST FAN	120V1	TOILET 05	15	W	10"	12	12	12	X		P.O.R.
BP-4	EXHAUST FAN	120V1	ROOM 08	17	W	10"	12	12	12	X		P.O.R.
BP-5	EXHAUST FAN	120V1	ROOM 08	17	W	10"	12	12	12	X		P.O.R.
BP-6	EXHAUST FAN	120V1	GIRL 08	12	W	10"	12	12	12	X		P.O.R.
BP-7	EXHAUST FAN	120V1	TOILET 06	15	W	10"	12	12	12	X		P.O.R.
BP-8	EXHAUST FAN	120V1	TOILET 05	15	W	10"	12	12	12	X		P.O.R.
BP-9	EXHAUST FAN	120V1	TOILET 24	15	W	10"	12	12	12	X		P.O.R.
BP-10	EXHAUST FAN	120V1	PHOT 05	201	W	10"	12	12	12	X	Y	P.O.R.
BP-11	EXHAUST FAN	120V1	TOILET 08	20	W	10"	12	12	12	X		P.O.R.
BP-12	EXHAUST FAN	120V1	PHILK 04	351	W	10"	12	12	12	X	X	P.O.R.
BP-13	EXHAUST FAN	120V1	PHILK 05	241	W	10"	12	12	12	12	X	P.O.R.
BP-14	EXHAUST FAN	120V1	PHILK 04	241	W	10"	12	12	12	12	X	P.O.R.

