

VOLTAGE 120V/208 PHASE 3 WRE 4

PANEL LKM2 MOUNTING SURFACE E111

SERVING	VA	BREAKER	CKT NO.	AMP	NO.	CKT	MOUNTING SURFACE		SERVING
							LOC. NO.	NO.	
REFRIGERATOR	1200	20C	1	1					RECEPTACLE
RECEPTACLE	1200	20C	1	3					RECEPTACLE
RECEPTACLE	1080	20	1	5					RECEPTACLE
RECEPTACLE	720	20	1	7					RECEPTACLE
RECEPTACLE	720	20	1	9					RECEPTACLE
RECEPTACLE	1260	20	1	11					RECEPTACLE
RECEPTACLE	1080	20	1	13					RECEPTACLE
RECEPTACLE	1080	20	1	15					RECEPTACLE
RECEPTACLE	720	20	1	17					RECEPTACLE
RECEPTACLE	1080	20	1	19					RECEPTACLE
RECEPTACLE	720	20	1	21					RECEPTACLE
SPARE	-	20	1	23					RECEPTACLE
SPARE	-	20	1	25					RECEPTACLE
SPARE	-	20	1	27					RECEPTACLE
SPARE	-	20	1	29					RECEPTACLE
SPARE	-	20	1	31					RECEPTACLE
SPARE	-	20	1	33					RECEPTACLE
DHP/BHP-1	1997	15	2	35					SPARE
DHP/BHP-1	1997	15	2	39					SPARE
DHP/BHP-1	1997	15	2	43					SPARE
SPARE	-	15	2	45					SPARE
SPARE	-	15	2	47					SPARE
SPARE	-	15	2	49					SPARE
SPARE	-	15	2	51					SPARE
SPARE	-	15	2	53					SPARE
SPARE	-	15	2	55					SPARE
SPARE	-	15	2	57					SPARE
SPARE	-	15	2	59					SPARE
SPARE	-	15	2	61					SPARE
SPARE	-	15	2	63					SPARE
SPARE	-	15	2	65					SPARE
SPARE	-	15	2	67					SPARE
SPARE	-	15	2	69					SPARE
SPARE	-	15	2	71					SPARE
SPARE	-	15	2	73					SPARE
SPARE	-	15	2	75					SPARE
SPARE	-	15	2	77					SPARE
SPARE	-	15	2	79					SPARE
SPARE	-	15	2	81					SPARE
SPARE	-	15	2	83					SPARE
SPARE	-	15	2	85					SPARE
SPARE	-	15	2	87					SPARE
SPARE	-	15	2	89					SPARE
SPARE	-	15	2	91					SPARE
SPARE	-	15	2	93					SPARE
SPARE	-	15	2	95					SPARE

5 PARTIAL RISER
E111 SCALE: 1/8" = 1'-0"

INDOOR/OUTDOOR HEAT PUMP ELECTRICAL CONNECTION SCHEDULE

EQUIPMENT	VOLTS (V)	PHASE	MCA(A)	KW	CIRCUIT	BREAKER	CONDUIT	FEEDER	CONDUCTORS (GROUND)	NOTES	DISCONNECT
BHP-1	208	1	30	166		15 2				A	-
BHP-2	208	1	30	166		15 2				A	-
BHP-3	208	1	30	166		15 2				A	-
DHP-1	240	1	12.00	1997	LKM2 35	15 2	1 3/4"	2 12 1 12 B			30/2/3R
DHP-2	240	1	12.00	1997	LKM2 30	15 2	1 3/4"	2 12 1 12 B			30/2/3R
DHP-3	240	1	12.00	1997	LKM2 43	15 2	1 3/4"	2 12 1 12 B			30/2/3R

NOTES:
 A INDOOR UNIT IS FED FROM OUTDOOR UNIT. ROUTE 3/4", 3#12 FROM OUTDOOR UNIT TO INDOOR UNIT. PROVIDE TOGGLE SWITCH AT INDOOR UNIT AND LOCATE ADJACENT TO UNIT.
 B SEE DETAIL 6/562 FOR DISCONNECT ROUGH IN.

ELECTRIC HEAT PUMP ELECTRICAL CONNECTION SCHEDULE

EQUIPMENT	VOLTS (V)	PHASE	MCA(A)	HP	KW	VA	CIRCUIT	BREAKER	CONDUIT	FEEDER	CONDUCTORS (GROUND)	NOTES	DISCONNECT
WHP-1	480	3	25.0		16626	HKM	25 3	1 3/4"	3 10 1 10 A	B			FURNISHED WITH UNIT

NOTES:
 A SIZE BREAKER AND WIRE PER UNIT NAMEPLATE DATA. COORDINATE WITH DIVISION MECHANICAL.
 B FEED UNIT FROM EXISTING PANEL. PROVIDE NEW BREAKER AND INSTALL IN SPACE LOCATED. PROVIDE NEW PANELBOARD SCHEDULE

DEMOLITION NOTES:

- THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS OF EXISTING RACEWAYS BEFORE STARTING ANY WORK AND NOTIFY THE ARCHITECT OF ANY KNOWN DISCREPANCIES.
- THE CONTRACTOR SHALL REMOVE EXISTING CONDUITS AND INSTALL NEW CONDUITS AS SHOWN OR AS REQUIRED TO COMPLETE REWIRING OR TO CONFORM TO CODE.
- ALL EXISTING EQUIPMENT REMOVED FROM SERVICE AND NOT INTENDED FOR REUSE SHALL REMAIN THE PROPERTY OF OWNER AND SHALL BE STRIPPED OR DISPOSED OF AS DIRECTED BY THE OWNER.
- MAINTAIN SERVICE TO ALL EXISTING CIRCUITS THAT ARE NOT SCHEDULED FOR REMOVAL.
- PROVIDE BLANK COVERS ON ALL JUNCTION BOXES AND OUTLET BOXES NOT INTENDED FOR REUSE.
- EXISTING CEILING WALLS AND FLOORS DISBURSED OR DISHIGHERED BY THE ELECTRICAL CONTRACTOR SHALL BE REPAIRED BY TRADES ACTIVE IN PARTICIPATING IN THIS TYPE OF WORK. RESPONSIBILITY FOR REPAIRS SHALL BE COORDINATED BY THE GENERAL CONTRACTOR AND ELECTRICAL SUBCONTRACTOR.
- EXISTING EQUIPMENT SHOWN ON ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS THAT WILL REMAIN SHALL HAVE SERVICE MAINTAINED OR RECONNECTED TO EXISTING OR NEW PANELBOARD AS NECESSARY.
- ALL EXISTING LIGHT FIXTURES REMOVED FROM AREAS WHERE NEW CEILING AND LIGHT FIXTURES ARE TO BE INSTALLED SHALL REMAIN THE PROPERTY OF THE OWNER (SEE NOTE #4).
- TO MAINTAIN SERVICE, TO EXTEND, OR TO RECONNECT CIRCUITS WHERE CONDUIT CAN NOT BE CONCEALED, SURFACE MOUNTED RACEWAY (WIREMESH) SHALL BE USED. VERIFY WITH ARCHITECT PRIOR TO INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS FOR DOOR SWINGS, CABINETS, COUNTERTOPS AND OTHER BUILT IN EQUIPMENT. CONDITIONS INDICATED ON ARCHITECTURAL DRAWINGS SHALL APPLY.
- COORDINATE ELECTRICAL WITH ARCHITECTURAL DETAILS, FLOOR PLANS, ELEVATIONS, STRUCTURAL, MECHANICAL, AND PLUMBING DRAWINGS. PROVIDE FITTINGS, JUNCTION BOXES AND ACCESSORIES TO MEET CODES.
- DEVICES LOCATED ON COUNTERTOPS SHALL BE MOUNTED ABOVE COUNTERTOP UNLESS WHERE SPACE IS PROVIDED WITH DRILLED HOLE IN COUNTERTOP FOR SERVICE COORDS. VERIFY WITH ARCHITECT.
- WHERE CONDUIT RIGID ARE SHOWN EXPOSED IN AN AREA WITHOUT CEILING, ANY CONDUIT RUN DOWN IN WALL SHALL BE CONCEALED.
- WHERE EXISTING CONCRETE FLOOR SLAB IS SAW CUT AND CONCRETE IS CHIPPED OUT FOR ELECTRICAL, UNDER FLOOR EQUIPMENT ANY ELECTRICAL CONDUIT, WIRING AND PLUMBING PIPING THAT IS DAMAGED SHALL BE REPAIRED BY TRADES TO PROVIDE HANDERS AND HOOKS TO SUPPORT EXPOSED CABLES. ALL CABLES SHALL BE BUNDLED TOGETHER WITH PRELIMINARY BE HANGERS AND SUPPORTED FROM STRUCTURE ABOVE. SUPPORT OF CABLES FROM CEILING HANGERS, WIRE, CONDUIT, SPRINKLER PIPE, DUCT WORK, ETC. WILL NOT BE ACCEPTABLE.
- CONTRACTOR TO VERIFY EXISTING AREAS ABOVE CEILING FOR EXISTING ELECTRICAL CONDUIT AND JUNCTION BOXES WHICH ARE TO REMAIN ANY CONDUIT OR JUNCTION BOXES NOT SHOWN IN THIS COMPLIANCE WITH NEC SHALL BE SUPPORTED ACCORDINGLY TO MEET CODE. CONTRACTOR TO PROVIDE ADDITIONAL HANDERS TO SUPPORT AS NECESSARY.
- CONTRACTOR TO REVIEW EXISTING CONDUIT PENETRATIONS OF BARRIED WALLS AT RENOVATED SPACES. CONTRACTOR TO PROVIDE FIRE STOP WITH EXISTING CONDUIT PENETRATIONS OF BARRIED WALLS IN ORDER TO MAINTAIN INTEGRITY OF BARRIED WALL.

GENERAL NOTES:


- ALL 250V FIXTURES SHALL BE TYPE A UNLESS NOTED OTHERWISE.
- ALL LIGHT FIXTURES AND EMERGENCY RELAYS SHALL BE CONNECTED TO AN UNBATTED HOT.
- ALL WALL MOUNTED SPACES, SWITCHES, HOW OF LIGHTS NEAREST MARKERSHEDS SEPARATELY FROM OTHER FIXTURES IN THIS SPACE.
- ALL EMERGENCY EGRESS LIGHTING CIRCUITS SHALL HAVE 4 W/3 CONDUCTORS.
- CONTRACTOR SHALL PROVIDE CLASS 2 80V VOLT RATIO 4 W/3 VOLT CONTROL WIRING FOR ALL L.E.D. FIXTURES WHERE CONTROLLED BY LOW VOLTAGE CONTROLLER OR WALLSWITCH. CONTROL WIRING SHALL BE ROUTED IN RAISED ACCESSIBLE TRAYS AND SUPPORTED BY HANGERS. CONTROL WIRING SHALL BE SEPARATE FROM ALL OTHER WIRING. CONTRACTOR TO NOTE THESE CONDUCTORS ARE 2#12 SHOWN IN THE LOW VOLTAGE CONDUIT COUNT.
- AVOID USING WIREMESH SURFACE MOUNTED RACEWAY IN THIS AREA. CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND SUPPORTING WALL TO WHICH SURROUNDING.
- COORDINATE EXACT LOCATIONS OF ALL WALL MOUNTED DEVICES WITH ARCHITECTURAL, MECHANICAL ELEVATIONS AND STRUCTURAL DRAWINGS. CONTRACTOR SHALL COORDINATE LOCATIONS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL CONTRACTORS.
- SEE ESH FOR LOCATION OF EXISTING JOSEY ADDRESSABLE FIRE ALARM CONTROL PANEL.
- SEE ESH FOR LOCATION OF EXISTING JOSEY HOMEWELL INTRUSION ALARM CONTROL PANEL.
- SEE ESH FOR LOCATION OF EXISTING JOSEY BODEN QUARTZ/PIR SOUND RACK.
- CONNECT ALL DATA DROPS ON THIS SHEET TO DATA RACK ISB.
- SEE E42 FOR CABLE LEGEND AND CABLEING GENERAL NOTES.
- SEE E58 AND E59 FOR GENERAL NOTES INCLUDING THERMISTOR MOUNTING FOR MECHANICAL UNITS.

KEYED NOTES:


- INTERCEPT EXISTING CIRCUIT AT JUNCTION BOX AND RECONNECT TO NEW LIGHT FIXTURES AS SHOWN. FIELD VERIFY EXISTING CONDITIONS. UTILIZE EXISTING WIRE, CONDUIT, AND CIRCUITING FROM EXISTING JUNCTION BOX. WHERE CIRCUIT IS BEING INTERCEPTED ON ELECTRICAL PANEL.
- PROVIDE 4000V POWER MOUNT DISPLAY CABINET DOWNSTREAM OF SWITCH. INSTALL THREE (3) 4000V HALO HORN SERIES LIGHT RACK LIGHTS INSIDE CABINET. FUTURE SHALL HAVE WIREMESH COVER AT 4000V. PROVIDE WITH THREE FUSES.
- PROVIDE 4 POLE BREAKERS IN PANEL LKM TO FEED NEW PANEL LKM.
- REMOVE EXISTING ELECTRICAL INFRASTRUCTURE IN THIS AREA UNLESS NOTED OTHERWISE.
- REMOVE EXISTING SURFACE MOUNTED PANEL. W/3 TRANSFORMER TW DISCONNECT AND FEED FROM JOSEY VISION TO TRANSFORMER. SEE ESH FOR LOCATION OF JOSEY VISION. FIELD CONFIRM EXISTING ROUTE OF FEED TUBY OVER ALL MATERIALS TO OWNER.
- CONNECT TO EXISTING EMERGENCY CIRCUIT FEEDING CORRIDOR LIGHTING. FIELD VERIFY EXACT LOCATION.
- PROVIDE GUARD OUTLET WITH USB PORTS. SEE DETAIL BEEZ.

RACEWAY NOTE:

IT IS THE INTENT ALL NEW RACEWAYS FOR ELECTRICAL AND LOW VOLTAGE SYSTEMS ARE ROUTED CONCEALED WHERE POSSIBLE. REFER TO ARCHITECTURAL PLANS FOR NEW WALLS AND CHASES. WHERE SURFACE RACEWAY IS REQUIRED, EXISTING WALLS, RACEWAY CHASES SHALL BE SEPARATE FROM EXISTING ROOMS. JUNCTION BOXES, STORAGE ROOMS TO ROUTE CONCEALED AND DRILL THRU WALL WHERE APPLICABLE TO MINIMIZE SURFACE RACEWAY. PROVIDE FIRE RACKING AND PROTECTIVE COATINGS TO EXISTING WALLS IN BACK OF HOUSE. SPACES (MECH ROOMS, JANITOR CLOSETS AND STORAGE ROOMS).



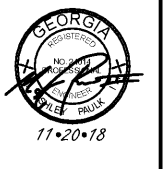
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PROJECT TITLE:
**MURPHEY
MIDDLE
SCHOOL P.E.
BUILDING
PROJECT #
B-17-005-3756.1**

REVISIONS			
REV #	DATE	APPROV BY	REVISION
1	11/02/18	MAP	STATE FINAL
2	11/20/18	MAP	ISSUE FOR BID



11.20.18

DA PROJECT NUMBER & NAME:
1707.1

DRAWING TITLE:
**LIGHTING AND
POWER PLAN
-BUSINESS LAB
-MARKETING LAB**

DRAWING NO:
E111