



EXTEND WIRING THROUGH MAIN CONTROL PANEL AND MAKE FINAL WIRING CONNECTIONS TO OIL PUMP AND PACKAGED BURNER CONTROL PANEL. TYP. OF (3) BOILERS.

**BOILER ROOM PLAN - NEW WORK**  
SCALE: 1/8" = 1'-0"

**DRAWING NOTES:**

1. RUN 4 #4/0 & #4G-2 1/2°C (EMT) TO EXIST. MAIN SWITCHBOARD AND CONNECT TO SPARE 225A-3P CIRCUIT BREAKER. RUN EMT CONDUIT OVERHEAD TO ELECTRIC ROOM VIA MECH. ROOM.

**ELECTRICAL LEGEND**

- Ⓢ JUNCTION BOX - WITH FINAL CONNECTION TO EQUIPMENT BY CONTRACTOR
- Ⓞ MOTOR LOCATION
- ▬ PANELBOARD
- ▭ EXISTING PANELBOARD
- Ⓢ FUSED DISCONNECT SWITCH - SIZE AND TYPE INDICATED (PROVIDE FUSES AS PER EQUIPMENT MANUF. REQUIREMENTS).
- ▭ NON-FUSED DISCONNECT SWITCH - SIZE AND TYPE INDICATED.
- Ⓢ COMBINATION STARTER/DISCONNECT SWITCH - SIZE 1 U.N.O. - PROVIDED BY E.C. - 60" TO HANDLE
- Ⓢ THERMAL SWITCH (MANUAL STARTER WITH THERMAL PROTECTION) SQUARE D CLASS 2510 SERIES WITH HANDLE GUARD/LOCK OFF ATTACHMENT. MOUNT ON OR ADJACENT TO EQUIPMENT
- HOMERUN TO APPLICABLE PANEL - WIRING SHALL BE 2 #12 AWG WITH SEPARATE GROUND WIRE IN 3/4" CONDUIT U.N.O.
- WIRING - EXPOSED AS SPECIFIED OR AS OTHERWISE NOTED
- ① INDICATES DRAWING NOTE NUMBER
- AFF ABOVE FINISHED FLOOR
- UNO UNLESS NOTED OTHERWISE

SQUARE D NO OR EQUAL

WITH GRD. BAR & 100% RATED NEUTRAL	AIC RATING		22,000
PANEL "P3" MAINS 400A MLO	φ 3	WIRES 4	POLES 42
VOLTS 120/208	MOUNTING SURFACE	LOCATION	MECH. ROOM

REMARKS AND LOCATION	LOAD	BKR	CKT	CKT	BKR	LOAD	REMARKS AND LOCATION
PUMP P-9	9100	50/3	1/3	2/4	40	10450	BOILER B-2
BOILER B-3	10450	40/3	7/9	8/10	40	10450	BOILER B-1
GUH-1	700	20/13	13/14	20/20	700		GUH-1
SPARE	-	20/15	15/16	20/20	-		SPARE
SPARE	-	20/17	17/18	20/20	-		SPARE
SPARE	-	20/19	19/20	20/20	-		SPARE
SPACE			21/22				SPACE
SPACE			23/24				SPACE
SPACE			25/26				SPACE
SPACE			27/28				SPACE
SPACE			29/30				SPACE
SPACE			31/32				SPACE
SPACE			33/34				SPACE
SPACE			35/36				SPACE
SPACE			37/38				SPACE
SPACE			39/40				SPACE
SPACE			41/42				SPACE

**GENERAL ELECTRICAL NOTES:** (APPLY TO ALL SHEETS)

1. THE CONTRACTOR SHALL PROVIDE ALL CIRCUITS (FEEDER AND BRANCH) WITH AN EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH NEC TABLE 250-122.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY MISCELLANEOUS STEEL REQUIRED FOR MOUNTING ELECTRICAL EQUIPMENT.
3. THE CONTRACTOR MUST FAMILIARIZE HIMSELF WITH THE AVAILABLE SPACE WITHIN CONSTRUCTION AREA. HE MUST COORDINATE ALL THE WORK TO BE DONE AND EQUIPMENT TO BE INSTALLED IN ADVANCE AND PRIOR TO INSTALLING ANY SYSTEM OR PORTION THEREOF. DRAWINGS SHALL NOT BE SCALED.
4. CONDUIT SLEEVES MUST BE PROVIDED FOR ALL LOW VOLTAGE WIRING RUN IN OR THROUGH WALLS. IN ROOMS WITHOUT CEILINGS, LOW VOLTAGE WIRING MUST BE RUN IN CONDUIT. NO EXPOSED LOW VOLTAGE WIRING WILL BE PERMITTED.
5. CONDUIT MAY BE RUN EXPOSED IN UNFINISHED AREAS (I.E., MECHANICAL EQUIPMENT ROOMS, ETC.). NO SURFACE RACEWAY MAY BE USED UNLESS SHOWN ON DRAWINGS.
6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND PATCHING OF EXISTING SURFACES THAT IS REQUIRED FOR HIS WORK. PATCHING SHALL INCLUDE FINAL FINISH TO MATCH ADJACENT SURFACES.
7. FOR ELECTRICAL WORK REQUIRED WITHIN AREAS OF THE BUILDING WHERE NO GENERAL TRADES WORK IS REQUIRED, THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING ALL CEILING TILES, INCLUDING INSULATION FOUND ABOVE THE CEILING TO PERFORM HIS WORK. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO NOTIFY THE OWNER/ENGINEER OF ANY DAMAGED CEILING TILE PRIOR TO REMOVAL. OTHERWISE, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGED CEILING TILES WITHIN THE AREA OF WORK.

REVISIONS	BY

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**BOILER REPLACEMENT**  
FOR THE  
**NESHAMINY HIGH SCHOOL**  
NESHAMINY SCHOOL DISTRICT  
LANGHORNE, PA

**BOILER ROOM PLAN**  
NEW WORK

DRAWN	DS
CHECKED	CV
DATE	11-22-11
SCALE	AS NOTED
JOB NO.	11-2051-1
SHEET	