ELECTRICAL SYMBOL SCHEDULE

SYMBOL	DESIGNATION	MTG HT	
S	SYMBOL SCHEDULE NOTES	•	
	SYMBOLS COMPRISE A STANDARD LIST, NOT ALL SYMPEAR ON THESE DRAWINGS.	IBOLS	
B. MOUNTING HEIGHTS INDICATED ARE STANDARD. DIMENSIONAL NUMBERS INDICATED AT DEVICES SHALL OVERRIDE THESE STANDARDS. MOUNTING HEIGHTS ARE TO THE CENTER OF THE DEVICE, UNLESS NOTED OTHERWISE.			
CONSTR USED, /	C. MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION. WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		
D. REFER	TO SPECIFICATIONS FOR FURTHER INFORMATION.		
	GENERAL		
[]	HEAVY DASHED LINE WEIGHT INDICATES		
ij	EXISTING ITEM TO BE REMOVED		
	LIGHT SOLID LINE WEIGHT INDICATES EXISTING ITEM TO REMAIN		
	HEAVY SOLID LINE WEIGHT INDICATES NEW ITEM OR NEW LOCATION		
R	REMOVE EXISTING ITEM		
RL	REMOVE EXISTING ITEM AND RELOCATE AS INDICATED)	
X	EXISTING ITEM TO REMAIN		
NL	NEW LOCATION FOR RELOCATED ITEM		
	NOTES & TAGS		
A #	EQUIPMENT IDENTIFICATION TAG — SEE EQUIP SCHEE	DULES	
#	FEEDER SIZE TAG — SEE POWER RISER FEEDER SC	HEDUL	
Œ#)	ELEC EQUIP CONNECTION TAG — SEE EQUIP SCHED	ULES	
#	KEYNOTE		
#	MISCELLANEOUS NOTE		
	LIGHTING		
_b O	LIGHT FIXTURE ID — REFER TO LT FIXT SCHEDULE (FIXT SCHEDULE OVERRIDES SYMBOL ABBREVIATION) A — INDICATES LIGHT FIXTURE TYPE # — INDICATES CIRCUIT NUMBER b — INDICATES SWITCHING		
	LIGHT FIXTURE CIRCUIT TYPE - NO HATCH INDICATES NORMAL CIRCUIT - ANGLED HATCH INDICATES CRITICAL CIRCUIT - SOLID HATCH INDICATES LIFE SAFETY CIRCUIT		
	TROFFER TYPE LIGHT FIXTURE, SIZE AS INDICATED — CEILING MOUNT		
<u> </u>	CHANNEL OR INDUSTRIAL, LENGTH AS INDICATED		
0	DOWNLIGHT CLG FIXT, RECESSED OR SURFACE MNT		
♦	CEILING WALL WASH FIXT, AIMED AS INDICATED		
0	SMALL WALL MOUNT FIXTURE OR SCONCE	VERIF	
Ċ	LINEAR WALL MOUNT FIXT, LENGTH AS INDICATED	VERIF	
	UNDER CABINET FIXTURE, LENGTH AS INDICATED		
<u> </u>	TRACK FIXTURE, NUMBER OF HEADS AS INDICATED EMERGENCY BATTERY LIGHT — WALL/CLG MNT	VERIF	
.	EXIT LIGHT, FILLED QUADRANT INDICATES FACES	VERIF	
○• ○	- WALL/CEILING MOUNT		
<u></u>	SITE LIGHTING POLE FIXT, ROUND/RECTANGLE HEAD - NUMBER OF HEADS AS INDICATED		
8888 ○ □	SITE LIGHTING POLE TOP FIXT, ROUND/RECT HEAD SPORTS LIGHTING ASSEMBLY		
		<u> </u>	
P	NURSE CALL	1	
-N P	BATH/SHOWER PULL STATION	48"	
-N C	PATIENT STATION CODE BLUE STATION	48" 48"	
-N D	DUTY STATION	48"	
-N ^{SA}	STAFF ASSIST STATION	48"	
-N M	MASTER STATION	48"	
N + +	LOCATOR ANTENNA		
-N# N#	DOME LT — WALL/CLG MNT (# = NUM OF LTS)	96"	
$-N_7$ N_7	ZONE INDICATOR LIGHT — WALL/CEILING MOUNT	96"	

SYMBOL	DESIGNATION	MTG HT
	SWITCHES & CONTROLS	
\$	SINGLE POLE TOGGLE SWITCH	48"
\$ ²	DOUBLE POLE TOGGLE SWITCH	48"
\$ ³	THREE WAY TOGGLE SWITCH	48"
\$ ⁴	FOUR WAY TOGGLE SWITCH	48"
\$	TOGGLE SWITCH — "a" INDICATES SWITCHING	48"
<u> </u>	PILOT LIGHT TOGGLE SWITCH	48"
\$ ^{IL}	ILLUMINATED TOGGLE — TOGGLE SWITCH	48"
**************************************	KEYED SWITCH	48"
\$ ^{MC}	MOMENTARY CONTACT TOGGLE SWITCH	48"
\$ ^{TS}	TIMER SWITCH	48"
	DIMMER SWITCH (# = WATTAGE)	48"
	OCCUPANCY SENSOR — WALL/CLG MOUNT	12"BF
\$°°	OCCUPANCY SENSOR WALL SWITCH	48"
[†]	PHOTO ELECTRIC CELL	VERIF
	TIME CLOCK	60"
	CONTACTOR	60"
R	RELAY	VERIF
	BADGE READER	VERIF
-	ELECTRIC THERMOSTAT	60"
	PUSH-BUTTON STATION - BUTTONS AS INDICATED	48"
	POWER	
	BRANCH CIRCUIT PANEL	VERIF
	EMERGENCY PANEL	VERIF
7///	DISTRIBUTION PANEL OR SWITCHBOARD	VERIF
	EQUIPMENT CABINET	VERIF
∃⊱	TRANSFORMER	VERIF
Ø	MOTOR OR MOTOR CONNECTION	VERIF
\boxtimes	MOTOR CONTROLLER, STARTER, OR VFD	VERIF
	COMBINATION STARTER & DISCONNECT SWITCH	VERIF
	DISCONNECT SWITCH	VERRIF
\$ ^{MR}	MOTOR RATED TOGGLE SWITCH	VERIF
\$ ^{MMS}	MANUAL MOTOR STARTER SW W/THERM OVERLOAD	VERIF
Θ	SINGLE RECEPTACLE — WALL/CEILING MOUNT	18"
⊕ ⊕	DUPLEX RECEPTACLE — WALL/CEILING MOUNT	18"
•	EMERGENCY DUPLEX RECEPTACLE — WALL MOUNT	18"
\(\phi\)	SPLIT WIRED DUPLEX RECEPTACLE — WALL MOUNT	18"
#	QUADPLEX RECEPTACLE — WALL MOUNT	18"
#	EMERGENCY QUADPLEX RECEPTACLE— WALL MOUNT	18"
∄ #	GFI RECEPTACLE, DUPLEX/QUADPLEX— WALL MOUNT	18"
O C	CLOCK RECEPTACLE — WALL MOUNT	96"
● ●	SPECIAL PURPOSE RECEPTACLE — WALL/CLG MNT	18"
⊚ ⊚	FLOOR BOX- DEVICES AS INDICATED	
P	POWER POLE - DEVICES AS INDICATED	
-	MULTIOUTLET ASSEMBLY - DEVICES AS INDICATED	VERIF`
-G G	GROUND REF BUS, AS NOTED — WALL/CLG MNT	VERIF
	SECURITY	
•S CR		40"
	CARD READER — WALL MOUNT	48"
-SKP	KEYPAD — WALL MOUNT	48"
•S ^{KS}	KEY SWITCH — WALL MOUNT	48"
-S ^{EP}	EXIT PUSH-BUTTON - WALL MOUNT	48"
S XS	EXIT SENSOR — CEILING MOUNT	-
S ES	ELECTRIC STRIKE	
S EL	ELECTRIC LOCK	1
S ML	MAGNETIC LOCK	1
S TH	POWER TRANSFER HINGE	
S DC	DOOR CONTACT	
S ^{ODC}	OVERHEAD DOOR CONTACT	
S MS	MONITOR STRIKE	<u> </u>
s ^{MD}	MOTION DETECTOR	<u> </u>
S GB	GLASS BREAK DETECTOR	4

SYMBOL	DESIGNATION	MTG HT
	FIRE ALARM	
-E	MANUAL PULL STATION — WALL MOUNT	48"
F # F R	HEAT DETECTOR (#=FIXED TEMP, R=RATE OF RISE)	10
E°E'	SMOKE DETECTOR (P=PHOTOELEC, I=IONIZATION)	
	DUCT MOUNTED PHOTOELECTRIC DETECTOR	
 FB ^{−T}	BEAM DET (B-T=TRANSMITTER, B-R=RECEIVER)	VERIFY
F SA	COMBINATION SMOKE DETECTOR AND ALARM	
FRS FRS	REMOTE STATION — WALL/CLG MOUNT	72"
FRL FRL		72"
F FS	FLOW SWITCH	
F TS	TAMPER SWITCH	
FMM	MONITOR MODULE	
F ^{CM}	CONTROL MODULE	
F ^{SD}	FIRE/SMOKE DAMPER CONNECTION	
- F ^{DH}	DOOR HOLD OR DOOR HOLD CONNECTION	VERIFY
⋖ FS	FIREMAN'S STATION — WALL MOUNT	48"
-F) _# F) _#	STROBE - WALL/CLG MNT (# = CANDELA)	82"
" "	BELL — WALL/CEILING MOUNT	82"
	BELL/STROBE - WALL/CLG MNT (# = CANDELA)	82"
<u> </u>	CHIME — WALL/CEILING MOUNT	82"
F# F#	CHIME/STROBE - WALL/CLG MNT (# = CANDELA)	82"
	HORN — WALL/CEILING MOUNT	82"
	HORN/STROBE - WALL/CLG MNT (# = CANDELA)	82"
FS FS	SPEAKER — WALL/CEILING MOUNT	82"
fs _# fs _#	SPEAKER/STROBE - WALL/CLG MNT (# = CANDELA)	82"
S	IGNAL & COMMUNICATIONS	
		1.0"
4 #	DATA BOX — WALL MOUNT (# = WIRE COUNTS)	18" 18"
4 #/#	VOICE/DATA BOX - WALL MOUNT (#=WIRE COUNTS)	18"
4 #	VOICE BOX - WALL MOUNT (# = WIRE COUNTS)	
4 w	DOUBLE GANG VOICE BOX — HIGH WALL MOUNT	48"
4 # 4 #	WIRELESS DATA HUB — WALL/CEILING MOUNT	VERIFY 96"
9	SPEAKER — WALL/CEILING MOUNT HORN SPEAKER — WALL MOUNT	96" 96"
⊙ ⊲		96 60"
	VOLUME SWITCH - WALL MOUNT	18"
◆ ◆	AUDIO JACK (M = MICROPHONE, A = AUXILIARY) WALL INTERCOM STATN (M=MASTER, R=REMOTE)	48"
√ Ic	BUZZER - WALL/CEILING MOUNT	96"
	<u>'</u>	96"
	BELL — WALL/CEILING MOUNT	96"
ф _©	CHIME — WALL/CEILING MOUNT CLOCK — WALL/CEILING MOUNT (# — DIAMETER)	96" 96"
<u> </u>	CLOCK - WALL/CEILING MOUNT (# = DIAMETER) COMBINATION CLOCK & SPEAKER - WALL MOUNT	96" 96"
—স্ল —স্ল ক্র	CLOSED CIRCUIT CAMERA — WALL/CEILING MOUNT	96 VERIFY
	TV SYSTEM OUTLET — WALL/CEILING MOUNT	18"
	TERMINAL CABINET — WALL MOUNT	VERIFY
	ANNUNCIATOR PANEL — WALL MOUNT	VERIFY VERIFY
		v EINIE I
	RACEWAYS	
	CONDUIT CONCEALED IN THE CEILING OR WALLS	
	CONDUIT CONCEALED IN THE FLOOR OR BELOW	
	CONDUIT EXPOSED ON THE CEILING OR WALLS	
✓ UG #"	CONDUIT BURIED UNDERGROUND (# = DEPTH)	
	CONDUIT WITH BEND DOWN	
<u> </u>	CONDUIT WITH BEND UP	
*	CONDUIT WITH BUSHED END	
~	CONDUIT WITH BREAK OR CONTINUATION	
L1 1,3	CIRCUIT HOME RUN - L1 INDICATES PANEL - NUMBERS INDICATE CIRCUITS	
	CONDUCTOR COUNT — UNLESS NOTED OTHERWISE / SHORT HASH INDICATES 1#12 LINE / LONG HASH INDICATES 1#12 NEUTRAL / HASH W/ DOT INDICATES 1#12 GROUND	
	PULL BOX, SIZE AS NOTED	
-	JUNCTION BOX — WALL/CEILING MOUNT	
	WIREWAY, DUCT BANK, OR FLOOR DUCT; AS NOTED	
	CABLE TRAY. TYPE/SIZE AS INDICATED	

CABLE TRAY, TYPE/SIZE AS INDICATED

SYMBOL	DESIGNATION	MTG HT
E	LECTRICAL ABBREVIATIONS	
A AC	AMP ABOVE COUNTER	
ADD AFCI	ADDENDUM ARC FAULT CIRCUIT INTERRUPTER	
AFF	ABOVE FINISHED FLOOR	
AHU AL	AIR HANDLING UNIT ALUMINUM	
ATS C	AUTOMATIC TRANSFER SWITCH CONDUIT	
CAB CB	CABINET CIRCUIT BREAKER	
CCTV CKT	CLOSED CIRCUIT TV CIRCUIT	
CU DN	COPPER DOWN	
EC	ELECTRICAL CONTRACTOR	
ELEC EM	ELECTRIC OF ELECTRICAL EMERGENCY	
EMT ENCL	ELECTRICAL METALLIC TUBING ENCLOSURE	
EP EPO	ELECTRIC PNEUMATIC EMERGENCY POWER OFF	
EWC F	ELECTRIC WATER COOLER FUSE or FUSED	
FA FACP	FIRE ALARM FIRE ALARM CONTROL PANEL	
FSD	FIRE-SMOKE DAMPER	
GFI GND	GROUND FAULT INTERRUPTER GROUND	
IG JBOX	ISOLATED GROUND JUNCTION BOX	
KV KVA	KILOVOLT KILOVOLT—AMP	
KW KWH	KILOWATT KILOWATT—HOUR	
МС	MOMENTARY CONTACT MOTOR RATED SWITCH	
MRS MT	EMPTY	
NC NEC	NORMALLY CLOSED NATIONAL ELECTRICAL CODE	
NIC NL	NOT IN CONTRACT NEW LOCATION FOR RELOCATED ITEM	
NO NTS	NORMALLY OPEN NOT TO SCALE	
OC PB	ON CENTER PULL BOX	
PB PE	PUSH-BUTTON	
PF	PNEUMATIC ELECTRIC POWER FACTOR	
PH PNL	PHASE PANEL	
PRI R	PRIMARY REMOVE EXISTING ITEM	
RECEPT REFG	RECEPTACLE REFRIGERATOR	
RL RTU	REMOVE EXISTING ITEM AND RELOCATE AS INDICATED ROOF TOP UNIT)
SEC SW	SECONDARY SWITCH	
SWBD SPKR	SWITCH SWITCHBOARD SPEAKER	
TEL	TELEPHONE	
TSTAT TYP	THERMOSTAT TYPICAL	
UC UG	UNDER COUNTER UNDERGROUND	
UH UNO	UNIT HEATER UNLESS NOTED OTHERWISE	
V VA	VOLT VOLT—AMP	
VAC VDC	VOLTS ALTERNATING CURRENT VOLTS DIRECT CURRENT	
W WP	WATT WEATHERPROOF	
Χ	EXISTING ITEM TO REMAIN	
XFMR NOTE:	TRANSFORMER	
) MOTOR AND EQUIPMENT SCHEDULES FOR ADDITIONA BBREVIATIONS.	L
[ELECTRICAL SHEET INDEX	
E000 E001	ELECTRICAL TITLE SHEET ELECTRICAL SPECIFICATIONS	
ED101	ELECTRICAL DEMOLITION SHEET	
E101	ELECTRICAL LIGHTING PLAN	
E201	ELECTRICAL POWER PLAN	
E301	ELECTRICAL PANEL SCHEDULES	
E700	ELECTRICAL COLIEDULES	

SYMBOL	DESIGNATION	MTG HT
Е	LECTRICAL ABBREVIATIONS	
A CADCIFU S B TO C CCCCCEEEE E E E E E E E E E E E E E	AMP ABOVE COUNTER ADDENDUM ARC FAULT CIRCUIT INTERRUPTER ABOVE FINISHED FLOOR AIR HANDLING UNIT ALUMINUM AUTOMATIC TRANSFER SWITCH CONDUIT CABINET CIRCUIT BREAKER CLOSED CIRCUIT TV CIRCUIT COPPER DOWN ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR ELECTRIC OF ELECTRICAL EMERGENCY ELECTRICAL METALLIC TUBING ENCLOSURE ELECTRIC PNEUMATIC EMERGENCY POWER OFF ELECTRIC WATER COOLER FUSE or FUSED FIRE ALARM FIRE ALARM CONTROL PANEL FIRE—SMOKE DAMPER GROUND FAULT INTERRUPTER GROUND ISOLATED GROUND JUNCTION BOX KILOVOLT—AMP KILOWATT—HOUR MOMENTARY CONTACT MOTOR RATED SWITCH EMPTY NORMALLY CLOSED NATIONAL ELECTRICAL CODE NOT IN CONTRACT NEW LOCATION FOR RELOCATED ITEM NORMALLY OPEN NOT TO SCALE ON CENTER PULL BOX PUSH—BUTTON PNEUMATIC ELECTRIC POWER FACTOR PHASE PANEL PRIMARY REMOVE EXISTING ITEM AND RELOCATE AS INDICATER REFRIGERATOR REMOVE EXISTING ITEM AND RELOCATE AS INDICATER ROOF TOP UNIT SECONDARY SWITCH SWITCHBOARD SPEAKER TELEPHONE THERMOSTAT TYPICAL UNDER COUNTER UNDER C	

E000 E001	ELECTRICAL TITLE SHEET ELECTRICAL SPECIFICATIONS
ED101	ELECTRICAL DEMOLITION SHEET
E101	ELECTRICAL LIGHTING PLAN
E201	ELECTRICAL POWER PLAN
E301 E302 E303	ELECTRICAL PANEL SCHEDULES ELECTRICAL SCHEDULES ELECTRICAL RISER DIAGRAM
MEO1	MECHANICAL/ELECTRICAL SCHEDULES



SIMPSON ASSOCIATES

ARCHITECT

3280 Edgewood Park Dr. Commerce, Michigan 48382 248-360-7821

David R. Gebhardt Architec Professional Corporation 203 W. Michigan Ave. Saline, MI 48176 (734) 429-513



Dunham Associates, Inc. 50 South Sixth Street / Suite 1100 Minneapolis, Minnesota 55402-1540 FHONE 612.465.7550 FAX 612.465.7551
WEB dunhameng.com mechanical + electrical consulting engineering



Construction Manager Frank Baxter General Contractor, Inc. 3225 Avenue N Fort Madison, IA 52627 319-372-7285

PROJECT:



EXECUTIVE OFFICE LAYOUT 191 RIVERSIDE PORTLAND, MAINE

DATE:	ISSUED FOR:
11.12.07	90% REVIEW
11.16.07	PERMIT
11.28.07	ADDENDUM #1
	·

SHEET TITLE:

ELECTRICAL TITLE SHEET

SHEET NO.:

E000