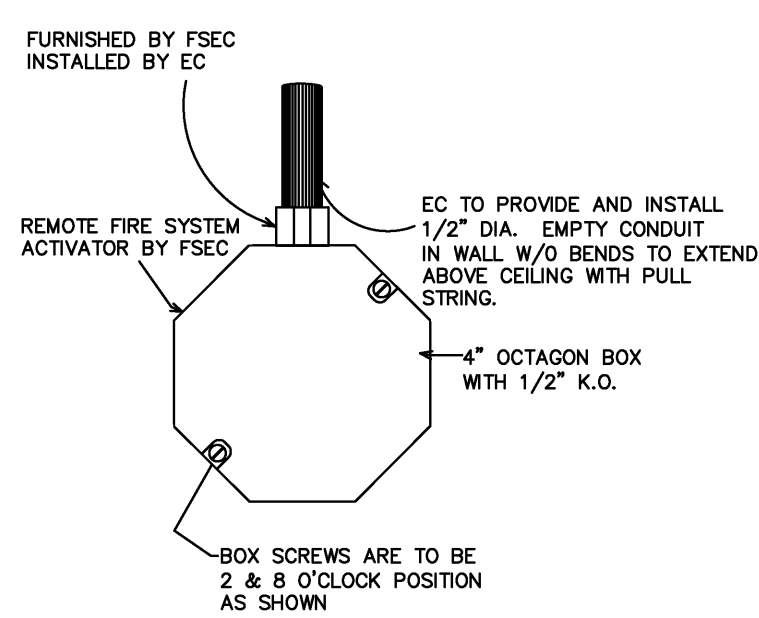


### ELECTRICAL NOTES

- EC= ELECTRICAL CONTRACTOR
1. EC TO VERIFY REQUIREMENTS FOR EQUIPMENT NOT SUPPLIED BY FSEC.
2. EC TO DETERMINE WIRING DIAGRAM FOR FIRE SUPPRESSION SYSTEM ACCORDING TO OWNER AND ALL APPLICABLE CODE REQUIREMENTS. IN REGARD TO THE AUTOMATIC INTERRUPTION OF GAS AND ELECTRIC POWER SUPPLIED TO COOKING EQUIPMENT, ELECTRICAL OUTLETS, HOOD LIGHTS, EXHAUST SUPPLY FANS, TRIPPING OF BUILDING ALARM SYSTEMS, ETC., TO BE THE RESPONSIBILITY OF EC. VERIFY ALL REQUIREMENTS WITH THE MECHANICAL CONTRACTOR (M/C).
3. ALL EXHAUST FANS, MAKE-UP AIR UNITS, AIR TRANSFER FANS, ETC., ARE TO BE ELECTRICALLY INTERLOCKED. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL NECESSARY STARTERS, RELAYS, SWITCHES, DISCONNECTS, ETC. AS MAY BE REQUIRED. THIS PLAN DOES NOT SHOW POWER REQUIREMENT OR ON/OFF SWITCHES FOR EXHAUST SYSTEMS.
4. ALL ABOVE FINISH FLOOR (AFF) ELECTRICAL HEIGHTS ARE CALLED OUT FROM THE CENTER OF THE BOX.
5. SOME STATES ELECTRICAL CODES REQUIRE THE USE OF A GFCI RECEPTACLE ON THE COOKING LINE, PLEASE VERIFY IF THIS IS NEEDED. IF THIS RECEPTACLE IS REQUIRED THE USE OF A "PASS AND SENDOUT" CAT. NO. 2095-W TIEVOLT 20.0 AMP GFCI DUPLEX RECEPTACLE IS RECOMMENDED. IF A LESSER QUALITY GFCI BREAKER IS USED PROBLEMS WITH START-UP AMP LOAD DRAW MAY OCCUR.
- NOTE: UTILITIES, SWITCHES, ETC. NOT SHOWN ON THIS PLAN FOR EXHAUST FANS, MAKE-UP AIR UNITS, ETC. TO BE VERIFIED WITH ARCHITECTURAL DRAWINGS.



NOTE: VERIFY HEIGHT AND EXACT REQUIREMENT WITH LOCAL AUTHORITY. ADA REQUIREMENTS MAY APPLY.

### SYMBOLS & ABBREVIATIONS LEGEND

HW	●	HOT WATER
CW	●	COLD WATER
W	○	WASTE - DIRECT CONNECTION
IW	○	INDIRECT WASTE DRAIN
HO	⊙	HUB OUTLET
FD	⊠	FLOOR DRAIN
FTFD	⊠	FUNNEL TYPE FLOOR DRAIN
SWS	⊠	SAFE WASTE SINK 1" A.F.F.
GT	⊠	GREASE TRAP
G	◆	GAS
ECC	▼	ELECTRICAL CONDUIT CONNECTION
DR	⊠	DUPLEX RECEPTACLE
SPO	⊠	SPECIAL PLUG OUTLET
LIGHT	⊕	LIGHT
SW	⊕	SWITCH
SS	○	STEAM SUPPLY
SR	⊕	STEAM RETURN
SU	⊕	STUB UP
A.F.F.		ABOVE FINISHED FLOOR
D.F.A.		DROP FROM ABOVE
BTU		BRITISH THERMAL UNIT
C.F.M.		CUBIC FEET PER MIN.
BT		BRANCH TO
KW		KILOWATT
HP		HORSE POWER
PH		PHASE
AMP		AMPERE
GC		GENERAL CONTRACTOR
MC		MECHANICAL CONTRACTOR
PC		PLUMBING CONTRACTOR
EC		ELECTRICAL CONTRACTOR
FSEC		FOODSERVICE EQUIPMENT CONTRACTOR

### GENERAL NOTES

—THIS DRAWING SHOWS ONLY THOSE CONNECTIONS REQUIRED TO PROPERLY INSTALL THE FOOD SERVICE EQUIPMENT FURNISHED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR (FSEC) OR DIRECTLY CONNECTED TO THE OPERATION OF THE FOOD AND BEVERAGE FACILITY. IT DOES NOT SHOW RESTROOM, LIGHT FIXTURES, OR HEATING CONNECTIONS, ETC. AS THESE ARE TO BE FOUND ON THE ARCHITECTURAL PLANS, FURNISHED BY OTHERS. SIZES SHOWN FOR CUSTOMER AND EMPLOYEE RESTROOMS TO BE VERIFIED BY OTHER CONTRACTORS AND INSTALLED TO MEET ALL CURRENT LOCAL, STATE AND FEDERAL CODES.

—THESE CONNECTIONS SHOULD BE STUBBED IN AND ALLOWANCES MUST BE MADE FOR VALVES, TRAPS, L'S, T'S ETC. FURNISHED BY OTHER CONTRACTORS.

—IF THE SPOT IS MARKED "BT" (BRANCH TO) THE SPOT INDICATES WHERE THE STUB-IN SHOULD TERMINATE OR BE CAPPED SO IT CAN BE BRANCHED TO CONNECTION POINT IN FIXTURE AT TIME OF FINAL CONNECTION.

—THE EQUIPMENT FURNISHED BY THE FSEC SHALL BE DELIVERED, UNCRATED, ERECTED AND SET IN PLACE READY TO RECEIVE ALL ELECTRICAL AND MECHANICAL CONNECTIONS BY OTHER CONTRACTORS UNLESS OTHERWISE QUOTED TO THE OWNER.

—THE MECHANICAL AND ELECTRICAL CONTRACTORS SHALL FURNISH ALL NECESSARY LABOR AND MATERIALS INCLUDING SWITCHES, PLUG-IN RECEPTACLES, WIRING, PIG-TAILS, PLUGS, CORDS, DISCONNECT SWITCHES, INTER-WIRING, FLOOR DRAINS, FLOOR SINKS, SAFE WASTE SINKS, GREASE TRAPS, STEAM TRAPS, PRESSURE REDUCING VALVES, SHUT-OFF VALVES, PRESSURE TYPE WATER VACUUM BREAKERS, PIPING AND ALL FITTINGS NECESSARY FOR THE OPERATION OF THE EQUIPMENT SHOWN ON THE DRAWINGS AT NO COST TO THE FSEC.

—Any existing exhaust hood system(s) marked as "existing" and/or "reused" are shown for reference purposes only. It is the responsibility of the owner and respective contractors to evaluate the existing hood system(s) and verify that all components and material are in approved working condition per manufacture specification for correct operation while complying with all national, state and local codes and ordinances.

—Any existing equipment that is marked as "existing" and/or "reused" are shown for reference purposes only. All utility information and dimensions are the responsibility of the owner and respective contractors and must be verified prior to the reinstall of any of "existing" and/or "reused" equipment. All "existing" and/or "reused" equipment and their utilities must be installed and comply with manufacture specification for correct operation while following all national, state and local codes and ordinances.

### ELECTRICAL SCHEDULE

E1	DR 120V-1 PHASE 20.0 AMP 4'-2" AFF CONVENIENCE OUTLETS
E2	DR 120V-1 PHASE 20.0 AMP 1'-2" AFF CONVENIENCE OUTLETS
E3	DR 120V-1 PHASE 14.0 AMP 4'-2" AFF BT ICE & WATER DISPENSER ITEM #1 (NEMA 5-20P)
E4	DR 120V-1 PHASE 9.5 AMP 4'-2" AFF BT JUICE DISPENSER ITEM #2 (NEMA 5-15P) (VERIFY-BY VENDOR)
E5	DR 120V-1 PHASE 20.0 AMP CIRCUIT 4'-2" AFF BT COFFEE BREWER ITEM #5 (VERIFY- BY VENDOR)
E6	ECC 120V-1 PHASE 9.2 AMP SU BT HOT WELLS ITEM #7
E7	ECC 208-230V-3 PHASE 29.5 AMP 1'-2" AFF BT UNDERCOUNTER DISHMACHINE ITEM #13
E8	ECC JUNCTION BOX DFA BT AUTOMATIC FIRE SUPPRESSION SYSTEM ITEM #21
E9	REMOTE FIRE PULL ITEM #21 (SEE ELECTRICAL NOTE #2 AND FIRE SYSTEM DETAIL)
E10	DR 100-120V-1 PHASE 2.9 AMP 1/6 HP 4'-2" AFF BT MIXER ITEM #14
E11	DR 120V-1 PHASE 7.0 AMP 1/2 HP 4'-2" AFF BT FOOD PROCESSOR ITEM #16
E12	DR 120V-1 PHASE 16.0 AMP 4'-2" AFF BT MICROWAVE ITEM #23 (NEMA 5-20P)
E13	DR 120V-1 PHASE 15.0 AMP 4'-2" AFF BT TOASTER ITEM #24 (NEMA 5-15P)
E14	DR 120V-1 PHASE 7.3 AMP 1/3 HP 1'-2" AFF BT REACH-IN REFRIGERATOR ITEM #25 (NEMA 5-15P)
E15	DR 120V-1 PHASE 7.2 AMP 1/3 HP 1'-2" AFF BT REACH-IN FREEZER ITEM #26 (NEMA 5-15P)
E16	DR 120V-1 PHASE 4.2 AMP DFA BT SWITCH FOR HOOD LIGHTS ITEM #17
E17	NOT USED
E18	ECC JUNCTION BOX DFA BT AUTOMATIC FIRE SUPPRESSION SYSTEM ITEM #50
E19	REMOTE FIRE PULL ITEM #50 (SEE ELECTRICAL NOTE #2 AND FIRE SYSTEM DETAIL)
E20	DR 120V-1 PHASE 14.0 AMP 4'-2" AFF BT ICE & WATER DISPENSER ITEM #30 (NEMA 5-20P)
E21	DR 120V-1 PHASE 9.5 AMP 4'-2" AFF BT JUICE DISPENSER ITEM #31 (NEMA 5-15P) (VERIFY-BY VENDOR)
E22	DR 120V-1 PHASE 20.0 AMP CIRCUIT 4'-2" AFF BT COFFEE BREWER ITEM #34 (VERIFY- BY VENDOR)
E23	ECC 120V-1 PHASE 9.2 AMP SU BT HOT WELLS ITEM #36
E24	ECC 208-230V-3 PHASE 29.5 AMP 1'-2" AFF BT UNDERCOUNTER DISHMACHINE ITEM #43
E25	NOT USED
E26	NOT USED
E27	DR 100-120V-1 PHASE 2.9 AMP 1/6 HP 4'-2" AFF BT MIXER ITEM #44
E28	DR 120V-1 PHASE 9.0 AMP 1/2 HP 4'-2" AFF BT FOOD PROCESSOR ITEM #46
E29	DR 120V-1 PHASE 16.0 AMP 4'-2" AFF BT MICROWAVE ITEM #53 (NEMA 5-20P)
E30	DR 120V-1 PHASE 15.0 AMP 4'-2" AFF BT TOASTER ITEM #54 (NEMA 5-15P)
E31	DR 120V-1 PHASE 7.3 AMP 1/3 HP 1'-2" AFF BT REACH-IN REFRIGERATOR ITEM #55 (NEMA 5-15P)
E32	DR 120V-1 PHASE 7.2 AMP 1/3 HP 1'-2" AFF BT REACH-IN FREEZER ITEM #56 (NEMA 5-15P)
E33	DR 120V-1 PHASE 4.2 AMP DFA BT SWITCH FOR HOOD LIGHTS ITEM #47
E34	NOT USED
E35	DR 120V-1 PHASE 9.1 AMP 1/2 HP 1'-2" AFF BT REACH-IN REFRIGERATOR ITEM #59 (NEMA 5-15P)
E36	DR 120V-1 PHASE 12.5 AMP 3/4 HP 1'-2" AFF BT REACH-IN FREEZER ITEM #60 (NEMA 5-20P)

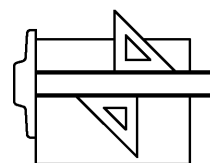
REVISED:

FOODSERVICE electrical  
requirements  
02/21/12 ISSUED FOR BIDS

THORNAPPLE MANOR  
HASTINGS, MICHIGAN

DRAWN BY: JMK  
DATE: 02/21/12  
CHECKED BY: wjz  
SCALE: 1/4" =

MILLIS & ASSOCIATES  
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JOB NO#  
2397

SHEET  
FSE-3  
SHEET 3 OF 5