EXHAUST SYSTEM REQUIREMENTS FOR HOOD # 1 - CLASS I

EXHAUST HOOD

Canopy type
11'-0"x42"x24"high
18 ga. stainless steel welded grease tight construction with U.L.Listed grease filters and vapor proof light fixtures

EXHAUST DUCT

17"x17" @ 3850 CFM = 1915 FPM velocity
16 ga. galvanized steel welded grease tight construction
Enclosed in an approved one hour fire rated shaft

EXHAUST FAN

Jenn-Air Model
#245NBRTD 1 HP/208 V/3 PHZ
3994 CFM @ 5/8" ESP
835 RPM - 200 LBS.

MAKE-UP AIR SYSTEM

SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR UNDER SEPERATE CONTRACT WITH OLSON'S FOOD STORES.

EXHAUST CFM

Length x Width x 100
11'-0" x 3'-6" x 100
= 3850 CFM

SUPPLY CFM

Exhaust CFM x 90%
3850 CFM x .9
= 3465 CFM

NOTE: AN APPROVED FIRE SUPPRESSION SYSTEM IS REQUIRED FOR CLASS I EXHAUST SYSTEMS. SUPPLIED AND INSTALLED BY OTHERS UNDER SEPERATE CONTRACT WITH OLSON'S FOOD STORES.

EXHAUST SYSTEM REQUIREMENTS FOR HOOD # 2 - CLASS II

EXHAUST HOOD

Canopy type
12'-0"x42"x24"high
18 ga. stainless steel welded grease tight construction with U.L.Listed grease filters and vapor proof light fixtures

EXHAUST DUCT

13"x13" @ 2100 CFM = 1800 FPM velocity
20 ga. galvanized steel lock and hammer type construction
Enclosure is not required for Class II exhaust ductwork

EXHAUST FAN

Jenn-Air Model
#184NBTD 1/2 HP/115 VOLT
2100 CFM @ 1/2" ESP
1010 RPM - 94 LBS.

MAKE-UP AIR SYSTEM

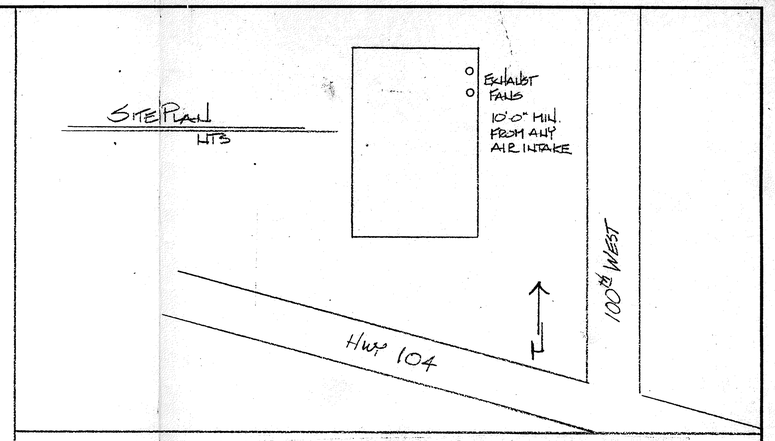
SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR UNDER SEPERATE CONTRACT WITH OLSON'S FOOD STORES.

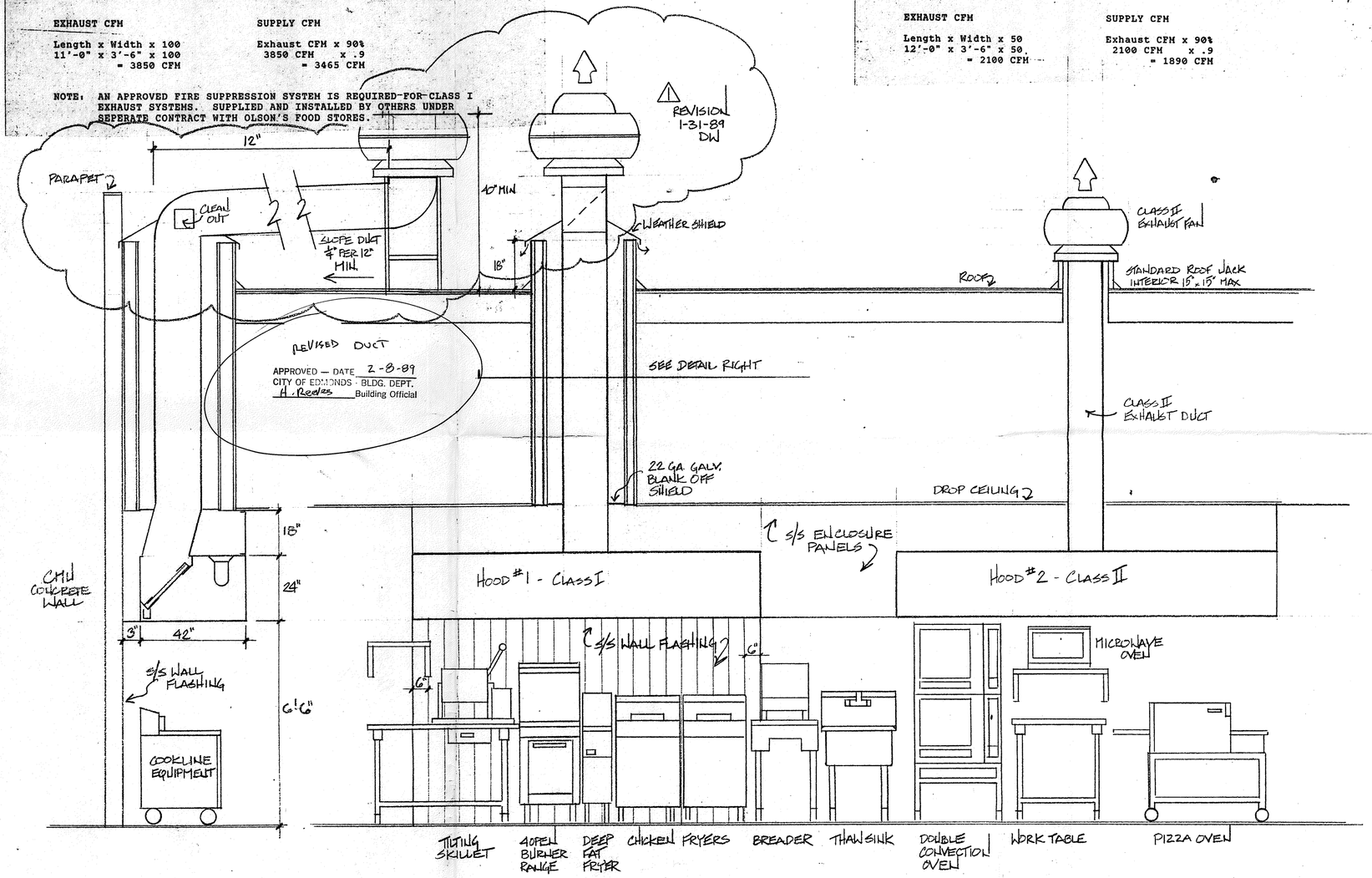
EXHAUST CFM

Length x Width x 50
12'-0" x 3'-6" x 50
= 2100 CFM

SUPPLY CFM

Exhaust CFM x 90%
2100 CFM x .9
= 1890 CFM





SECTION THRU EXHAUST SYSTEM
SCALE ½" = 1'-0"

COOKLINE ELEVATION
SCALE ½" = 1'-0"

APPROVED — DATE _____
CITY OF EDMONDS - BLDG. DEPT.
_____ Building Official

EXHAUST SYSTEM NOTES - CLASS I:

(1) The exhaust and make-up air system are to meet all Uniform Mechanical Code and NFPA-96 requirements.

(2) Vapor proof light fixtures and grease filters are to be U.L. listed - filters are to mounted at 45 degrees.

(3) Exhaust hood and ductwork to be of liquid tight welded construction - 18ga stainless steel/16ga mild steel.

(4) Exhaust ductwork which is to be installed horizontally must slope toward hood a minimum of ¼" per linear foot up to 75 feet length, at which point the entire duct must slope a minimum of 1" per linear foot.

(5) A clean-out access panel is to be provided at each direction change in the exhaust ductwork to opened without the use of a tool.

(6) The exhaust ductwork shall have a fire rated enclosure as shown on this plan sheet. Air space must be between 3" minimum to 12" maximum.

(7) Access Panel(s) for clean-outs must match required fire rating as duct enclosure.

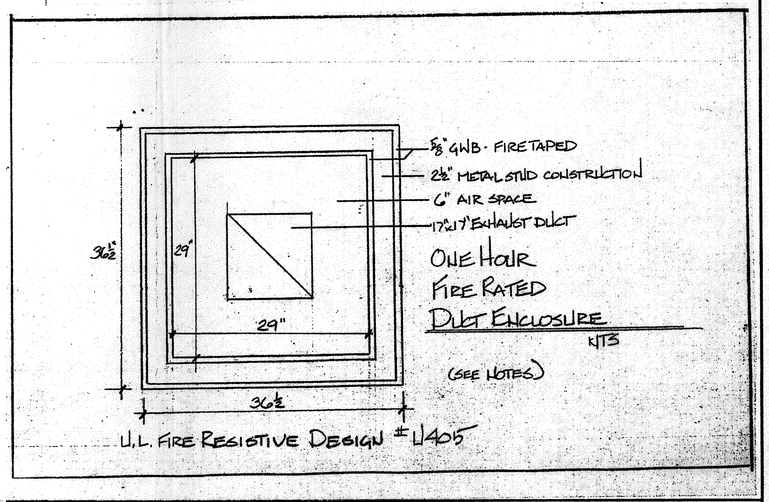
(8) Exhaust hood and ductwork must be located a minimum of 18" from any combustible material except if one hour fire rated pad is utilized, 3" minimum. (6" minimum for hoods - Seattle)

(9) Exhaust outlet to be a minimum of 40" above roof surface and 10 feet from any air intake (15 feet - Seattle), adjacent building or property line, and/or adjoining grade level.

(10) Make-up air must be supplied to replace exhausted air with air diffusers located to prevent a short-circuiting effect.

(11) Seattle Only - If exhaust CFM exceed 2500 the make-up air is to be tempered to a minimum of 65 degrees F.

(12) An approved fire suppression system is to be installed into any Class I system.



OLSON'S FOODS
22828 100th WEST
EDMONDS, WA.
98020

ECKSTROM ELECTRIC INC. PH # 258-4614	3323 HEWITT AVE EVERETT, WA 98201	
SCALE: AS NOTED	APPROVED BY:	DRAWN BY DW
DATE: 1-10-89		REVISED
CLASS I & II EXHAUST SYSTEMS		
JOB 1-79045		DRAWING NUMBER

22 X 34 PRINTED ON NO. 1000H CLEARPRINT