MOIDE:
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WRITTEN CONSENT OF THE DESIGNER REV NO: REVISIONS

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DRAWN BY: T. McArdle SCALE: None

Foodservice Equipment FS-11 Exhaust Hood Design Notes

CHECKED BY: T. McArdle

Portland Public Schools Central Kitchen 92 Waldron Way Portland, Maine

EXCINCY Locate for Serl/Stop Selfah in a comminant location. Refer to the wines degreen for registed voltage. It would be compared to the part of the selfat of the selfa

GENERAL NOTES FOR NON-WATER WASH VENTILATORS

1. All actimate beyond the weekfalor duct take—off color to be provided and instituted by others, in coordinar with applicable colors. Exhaust ducts must be continuously select liquid tight: and tight liquid to the provided and the continuously select liquid tight and the provided and the Linguign crost to be supplied by weekfloot institute. Hunging weight of the westitator(a) is noted an each drawine.

Veriliations manufactured in multiple sections are provided with bolts, dips, and all necessory hardware for provided with bolts, dips, and all necessory hardware for provided with the section of the well-dark manufactured in strict accordance with Colynoid specifications.

Whitistanc constructed of 18 Gu stainless steel, Type 300 peries, No. 4 finish unless othermies noted on drawings.

PRE CINAISME STEM

Fire actinguishing system to be installed in occordance with NRT-BAR feet to TRE PROTECTION STEELS WITH THE PROTECTION STEEL WITH

he total amount of make—up at (supply air) brought into strichen must be between 90% and 100% of the total sust volume. It should be brought in throughout the en eventy for best results. See the "Typical Design" inc.

cust and Supply Air Flow Rates were established controlled laboratory conditions. Greater Exhaust r lesser Supply Air Flows may be required for the vapor removal in specific installations.

Light fixtures in ventilators will provide less than 30 foot condies of light of the cooking surface as a standard, unless otherwise noted on Section View. Confirm if this amount of light is acceptable with local health codes.

INSIALUDIA "Not removal in sporie insurances.

BESIALUDIA" The inclined in coordinate with RPI)—56
and all other lood opticade codes. Contractor must
refer opticates does with code authorities before
approving dereiting for factivation. Special attention
must be given to oben regulations enterishe to desorross
from surrounting combustible and limited combustible
construction (east, calling, etc.).
Versidators manufactured in multiple sections or factory
pre-wired to a design connection point. Versidators without
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pre-wired to a design connection of the
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tectroal controctor.

extract controctors in multiple sections may have feelitators manufactured in multiple sections may have rains factory interconnected (see drawing) to a single utlet point. Ventilator plumbing is disconnected for hipment to be reconnected by plumbing contractor.

Ø SUPPLY M M M <u>p</u> VELOCITY AT M \square X

Calling diffusers shall be 15'-0" from all sides of the ventilator and the velocity of the diffuser shall not exceed 300 Feet per Minute (FPM)

5. The maximum velocity of the make-up air from Transfer Air, Diffusers, etc. shall not exceed 75 FPM at the ventilator ip

6. Cross drafts from pass through windows, hallways, or other openings shall not exceed 50 FPM

All forms of make-up air introduction (PBM, Transfer Air, Diffusers, etc.) hust be evenly distributed around each ventilator to prevent unequal pressurization shall not exceed -0.02"Mci. relative to the dining or object to the distributed around each ventilator to prevent unequal pressurization shall not exceed -0.02"Mci. relative to the dining or object to the distributed on ASPARE Standard 154.

9. For more information on acceptable methods of Make-up Air Delivery reference ASHRAE Standard 154.

Following these guidelines will result in proper capture and containment ventilator and enact the Caylord Capture Performance Guarantee. If journalists cannot accommodate these guidelines, consult factory for a nt at the jobsite alternative <u>Caylord Capture Performance Guarantee</u>
<u>Gaylord warrants</u> the Capture Performance of the ventilator, only if the Exhaust Air Volumes are correct, per the Exhaust Air Volume Guidelines, and the Make—up Air Volumes are correct and the make—up air is delivered correctly, per the Make—up Air Delivery Guidelines as stated below.

Exhaust Air Volume Guidelines:

1. The amount of air exhausted by the Caylord Ventilator shall be between 100% and 110% of the values shown on the Plan View for the Exhaust Ducts for each ventilator

Make-up Air Delivery Guidelines.

1. Goylord "PBW" Plenum boxes shall be included for each ventilator.

1. Goylord "PBW" plenum boxes shall be included for each ventilator.

2. The amount of make-up air delivered through the Goylord "PBW" plenum boxes shall not supply Ducts for each ventilator.

3. The make-up air delivered using Goylord "PBW" plenum boxes shall not exceed 60% of the exhaust volume of the ventilator.

4. Ceiling diffusers shall be at least 6"-0" from all sides of the ventilator and the velocity at the diffuser shall not exceed 150 Feet per Minute (FPM)

Exhaust Restroom HVAC Unit

EOR DEFUSERS: 15'-0" OR MORE FROM VENTILATOR, KEEP VELOCITY BELOW 300 FPM AT DIFFUSER TYPICAL DESIGN EA – Exhaust Air SA – Supply Air RA – Return Air OA – Outside Air Dining Room

ITERTEK TESTING SERVICES
The exhaust ventilator is ETL Listed. *

APPROVED FOR FABRICATION change in cooking equipment location, necessitating the station of the surface file protection nuclear must be brought be attention of GAYLORD INDUSTRES in writing, prior to kitchen being turned over to operating personnel.

FOR DIFFUSERS. 6"-0" TO 15"-0" FROM VENTILATOR, KEEP VELOCITY BELOW 150 FPM AT DIFFUSER

VELOCITY

MAXIMUM VELOCITY AT HOOD LIP IS 75 FPM

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Transfer Air LESS THAM 50 FPM VELOCITY

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PBW TOTAL "PBW" VOLUME NOT TO EXCEED 60% OF EXHAUST

Without changes With changes as shown Revise and Resubmit

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(H) " (NSE) (H)

IDERWRITERS LABORATORIES, INC.
The exhaust ventilator is UL Listed. *

TERNATIONAL & UNIFORM MECHANICAL CODE
The exhaust ventilator meets all requirements of IMC and UMC.

<u>NPORTANI NOTE:</u> Coylord Ventilators are designed to meet the National codes listed below. Local codes may vary. Goylord dustries must be notified in writing of local codes that may affect the ventilator design.

Prior to releasing the ventilator for fadrication, this drawing must be signed by an authorized appresentation of the company and offer the property of the company and offer the special property these drawings, the company and/STRES. By approving these already, the company and/STRES. By approving these already, the company and/STRES. By approving these already the special policy, accepts the approximation and has written the fathering three been changed.

APPROVAL NOTICE

∏⇔^{™ Exhaust}

MUA Unit

HVAC Unit

ATIONAL FIRE PROTECTION ASSOCIATION

The exhaust ventilator meets all requirements of the latest edition of NFPA-96.

TIONAL SANITATION FOUNDATION
The exhaust ventilator is NSF listed to:
Standard #2 - "Food Service Equipment"

All demoisses with a duct late and location, drain and hot water location, calling height, owned stood in smithdow, characters to become and other destinations.

The location of the coaking explanent is relation to the westlicks is correct as shown for proper placement of the services fine protection nectals.

THE GAYLORD VENTILATOR TESTING, LISTING AND COMPULANCE REFERENCES:

SPACE COMMINONS IN HOT AND HAMID CLIMATES / STEAM COMMINE FOURHENT
splord recomments the althes temperature be kept between 74% to 79% with a dare point not exceeding 55% to prevent excess
ordinatorial and or diplops in the hood over heavy storm producing explorent union and Subsernar, Kelffee, film Sum Curanter, etc.
Whis is not people, phose commit the fockey for increased or valume levels to prevent condensation busings and potential
typings. Previous relative for SPACE STIP 627-1201, 55-2701, and "The ASSPACE date for Ediblings in this & Hamid Climates to
desse conceptory comfort and reduces the grants of principanic or diseigning organisms. It should be noted that exceeding these
dues com result in throughout plantified to the province of the province of the province or the province of the province or the province of the province

PROJECT: Portland Public Schools entral Kitchen