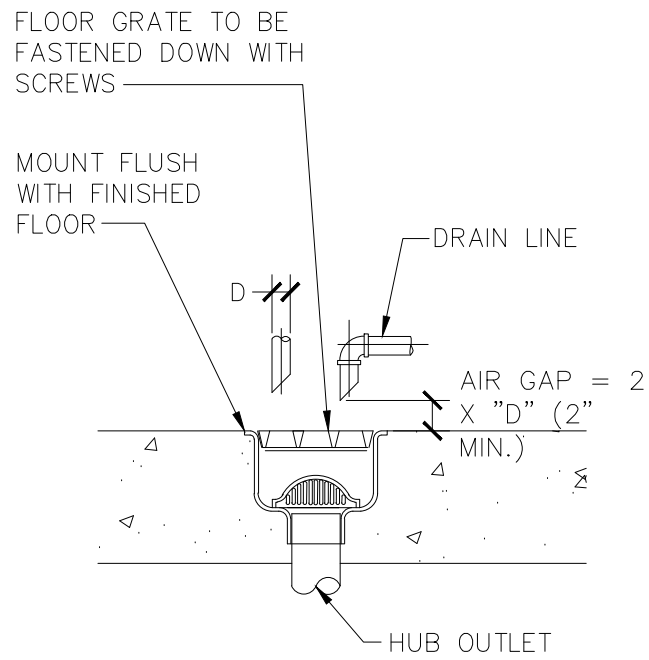




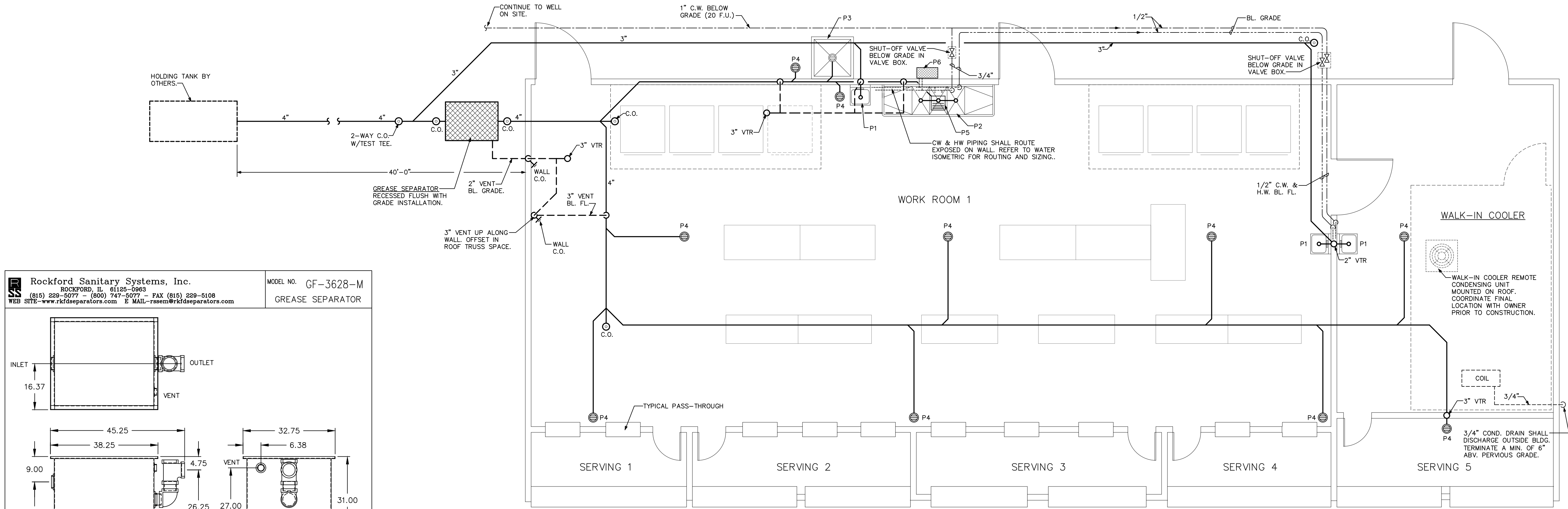
NOTE:
A. FLOOR SINK COVER FLUSH WITH TILE
OR FLUSH WITH CONCRETE FLOOR IN
AREA WITH NO TILE

2 FLOOR SINK CONN. DETAIL

NO SCALE

PLUMBING ABBREVIATION LEGEND					
DN.	DOWN	C.C.	CENTER TO CENTER	F.U.	FIXTURE UNITS
EXT.	EXTERIOR	N.T.S.	NOT TO SCALE	H.B.	HOSE BIBBS
F.D.	FLOOR DRAIN	MFGR.	MANUFACTURER	C.O.	CLEANOUT
F.F.	FINISH FLOOR	S.O.V.	SHUT OFF VALVE	E.W.H.	ELECTRIC WATER HEATER
A.F.F.	ABOVE FINISH FLOOR	W.C.	WATER CLOSET	JAN.SK.	JANITOR SINK
V.T.R.	VENT THRU ROOF	LAV.	LAVATORY	P & T	PRESSURE & TEMPERATURE
TYP.	TYPICAL	SK.	SINK	RWL.	RAIN WATER LEADER
R.D.	ROOF DRAIN	D.W.	DISH WASHER		
REV.	REVISION	E.D.F.	ELECTRIC DRINKING FOUNTAIN		
O.C.	ON CENTER	UR.	URINAL		

PLUMBING SYMBOLS LEGEND	
	FLOOR DRAIN
	HOSE BIBB
	CLEANOUT
	RELIEF VALVE
	AIR CHAMBER
	UNION
	SOIL OR WASTE LINE
	SANITARY VENT LINE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC WATER RECIRCULATION
	PRESSURE & TEMP. RELIEF LINE
	CONDENSATE DRAIN LINE
	RAIN WATER LEADER
	GAS LINE
	SAFEWASTE LINE
	FIRE PROTECTION
	SHUT OFF VALVE
	SAFEPAN LINE
	FIRE SPRINKLER HEAD
	PIPE TURN UP
	PIPE TURN DOWN
	P-TRAP



1 FLOOR PLAN - PLUMBING

SCALE: 1/4"=1'-0"

Rockford Sanitary Systems, Inc.
Rockford, IL 61105-1993
(815) 229-5077 - (800) 747-5077 - FAX (815) 229-5108
WEB SITE: www.rkfseparators.com E MAIL: rssem@rkfseparators.com

MODEL NO. GF-3628-M
GREASE SEPARATOR

INLET

OUTLET

VENT

INLET

OUTLET

VENT

Specifications

ROCKFORD MODEL GF-3628-M ALL WELDED 10 GA. STEEL SEPARATOR, 110 GALLON STATIC CAPACITY, 100 G.P.M. INTERMITTENT FLOW, 4.00" TAPPED INLET/OUTLET WITH 2.00" TAPPED INTERNAL VENT CONNECTION, 554 LBS. GREASY SLUDGE CAPACITY, VISIBLE DOUBLE-WALL OUTSIDE TRAP SEAL, SEPARATOR PLATE AND REMOVABLE FILTER SCREEN, REMOVABLE 3/8" NONSKID DIAMOND TREAD- PLATE COVER FOR FLUSH WITH GRADE INSTALLATION SUITABLE FOR PEDESTRIAN TRAFFIC SECURED WITH STAINLESS FLAT HEAD SCREWS, HEAVY DUTY LEAK-PROOF GASKET, OPEX SHOP COAT COATING INSIDE AND BITUMINOUS COATING OUTSIDE.

<http://www.rkfseparators.com/drawings/gf/GF-3628-M.pdf>

Grease Separator Calculations

3_COMP. SINK: (SINK SIZE) 18"x24"x14"x3=18,144 CU. IN. x 1(GAL)/231 CU. IN. = 78.54 GAL. x .75 (75% ACTUAL WATER VOLUME) = 58.9 GAL.
W/FLOW RATE OF 2 GAL./MIN. (58.9 DIVIDED BY 2) = **29.4 G.P.M.**

MOP SINK/CAN WASH: 3"x3"x6" = 7,776 CU.IN. x 1 GAL./231 CU. IN. = 33 GAL. x 75% = 24.75 G.P.M. (NO DRAIN PLUG - OPEN) W/FLOW RATE OF 2 GAL./MIN. (24.75 DIVIDED BY 2) = **12.4 G.P.M.**

(1) 3" FLOOR SINK = **4 GPM**

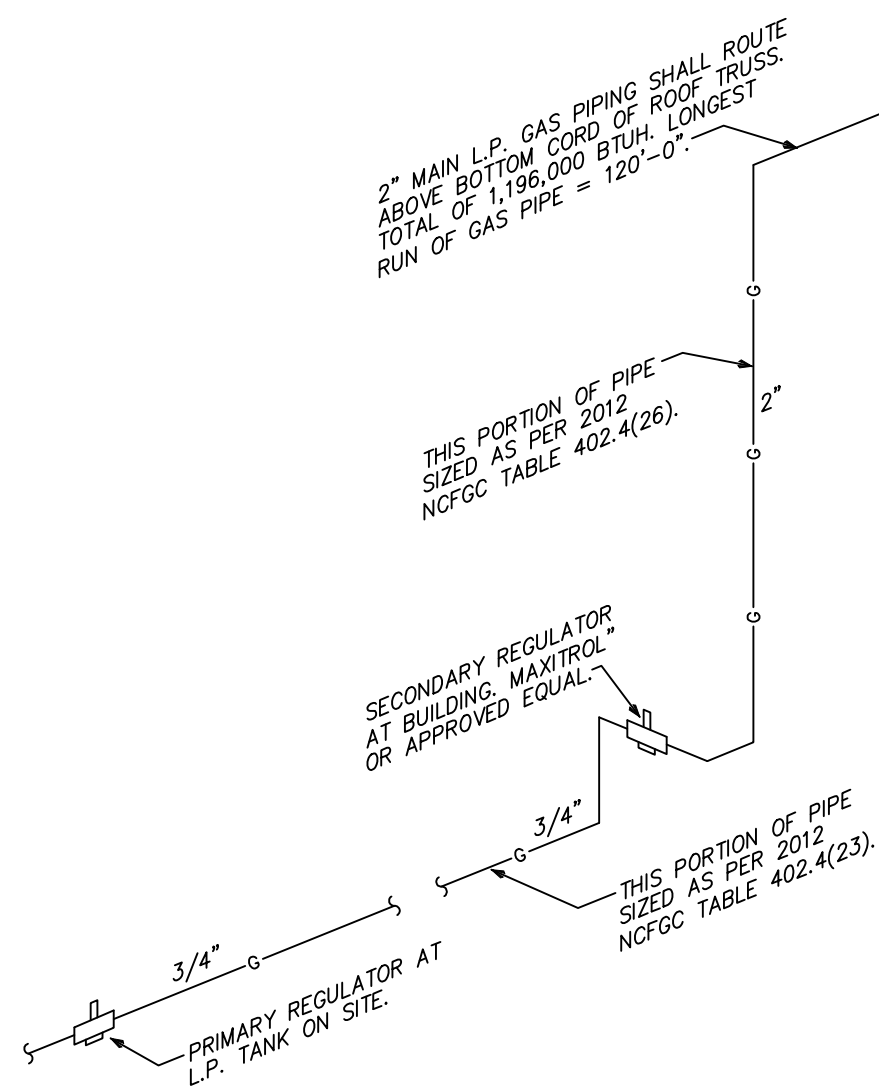
(11) 3" FLOOR DRAINS = **44 GPM**

TOTAL REQUIREMENT = **89.8 G.P.M.**

* AS PER NCPD TABLE 1003.3.4.1 89.8 GPM REQUIRES A GREASE RETENTION CAPACITY OF 200 LBS. GREASE SEPARATOR PROVIDED = 338 LBS. GREASY SLUDGE CAPACITY.

GENERAL GAS PIPING NOTES

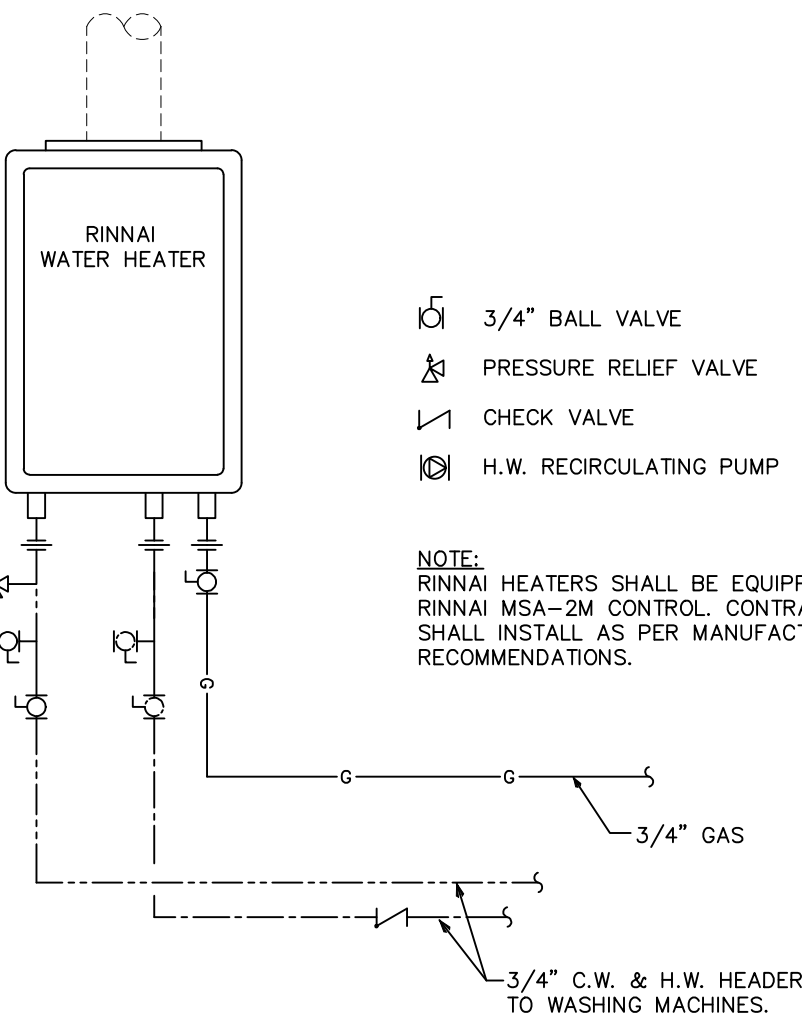
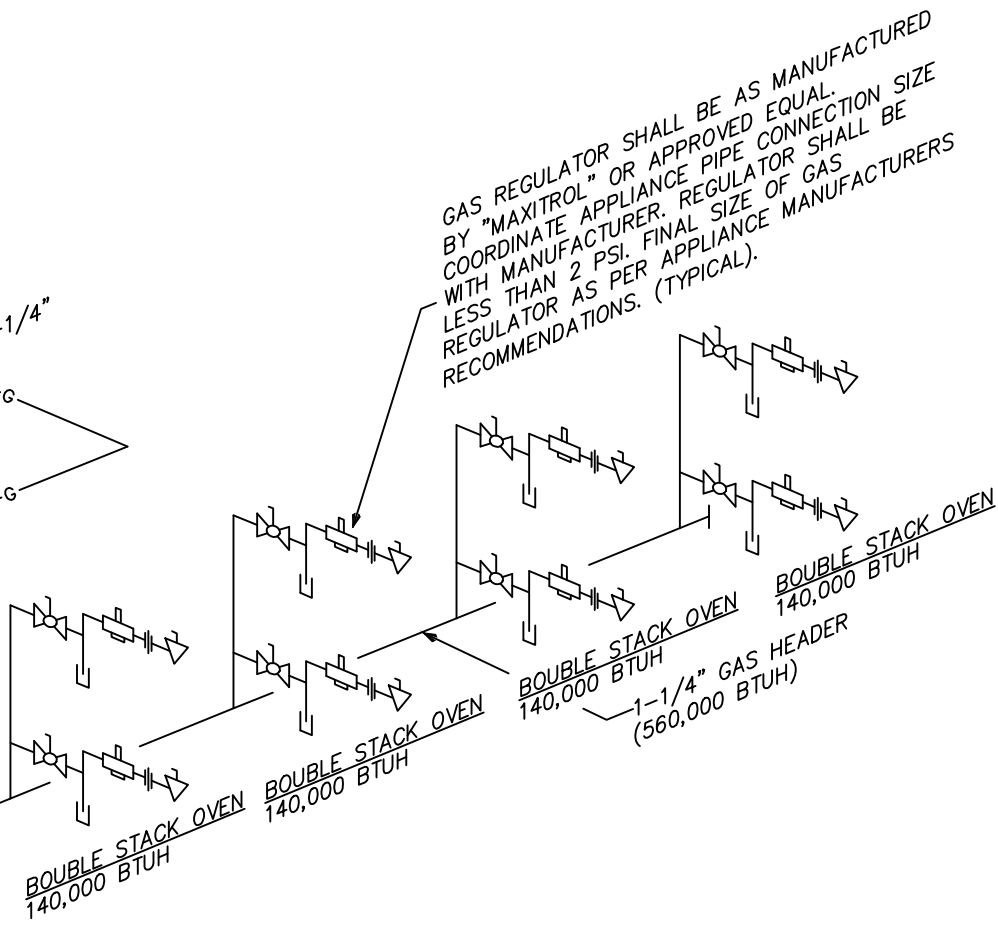
1. GAS PIPING AND FITTINGS SHALL BE SEAMLESS BLACK STEEL WITH MALLEABLE IRON FITTINGS. DIELECTRIC COUPLINGS OR UNIONS SHALL BE UTILIZED WHEN PIPING OF DISSIMILAR METAL IS CONNECTED. EXTERIOR GAS PIPING ON ROOF SHALL BE PAINTED WITH YELLOW "RUSTOLEUM" PAINT. EXPOSED GAS PIPING ON BACK WALL SHALL BE "RUSTOLEUM", PAINTED TO MATCH BUILDING. GAS PIPING CONNECTIONS SHALL BE THREADED UNLESS OTHERWISE REQUIRED BY CODE.
2. GAS PIPING SYSTEM SHALL BE INSTALLED TO THE REQUIREMENTS OF THE AGA PAMPHLET "INSTALLATION OF GAS APPLIANCES AND GAS PIPING" AND THE NFPA STANDARD #54. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS AND PAY ALL FEES WITH THE "LOCAL" GAS COMPANY FOR THE INSTALLATION OF THE GAS METER, GAS SERVICE, AND ITS ACCESSORIES NECESSARY FOR A COMPLETE SYSTEM.
3. GAS PIPING SHALL BE TESTED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN NFPA #54, AND ANY OTHER TESTS REQUIRED BY THE LOCAL BUILDING DEPARTMENT AND/OR THE LOCAL GAS UTILITY COMPANY.
4. THE INSTALLING SUBCONTRACTOR SHALL BE LICENSED BY THE STATE FOR THE INSTALLATION OF GAS PIPING.
5. RUNOUT PIPING, FROM THE MAIN PIPING TO APPLIANCES, SHALL BE WITH AN INVERTED TRAP CONNECTION AT THE MAIN.
6. A 12" DIRT LEG, AND A GAS COCK, SHALL BE PROVIDED AT ALL GAS APPLIANCES.
7. ALL EXPOSED GAS PIPING SHALL BE IDENTIFIED BY A YELLOW LABEL MARKED "GAS" IN BLACK LETTERS. THE MARKERS SHALL BE AT INTERVALS NOT EXCEEDING 5'.
8. ALL GAS BURNING EQUIPMENT SHALL BE INSTALLED PER NFPA #54, NFPA #54 (L.P.G.) OR NFPA #96 (COMMERCIAL COOKING EQUIPMENT).
9. GAS CONNECTIONS PER ANSI Z21.69



2 GAS ISOMETRIC
NO SCALE

NOTE:
ALL L.P. GAS PIPING IS SIZED BASED ON GAS PIPING WITH AND INLET PRESSURE BETWEEN FIRST STAGE AND SECOND STAGE REGULATORS OF 11.0 W.C. AND A 1.50 SPECIFIC GRAVITY. GAS PIPING IS SIZED AS PER UNDILUTED PROPANE PIPE - 2012 NCGFC TABLE 402.4(25) & 402.4(26).

GAS PIPE LEGEND	
	BALL VALVE
	DRIP LEG
	REGULATOR/OPD AS REQUIRED
	UNION
	QUICK DISCONNECT



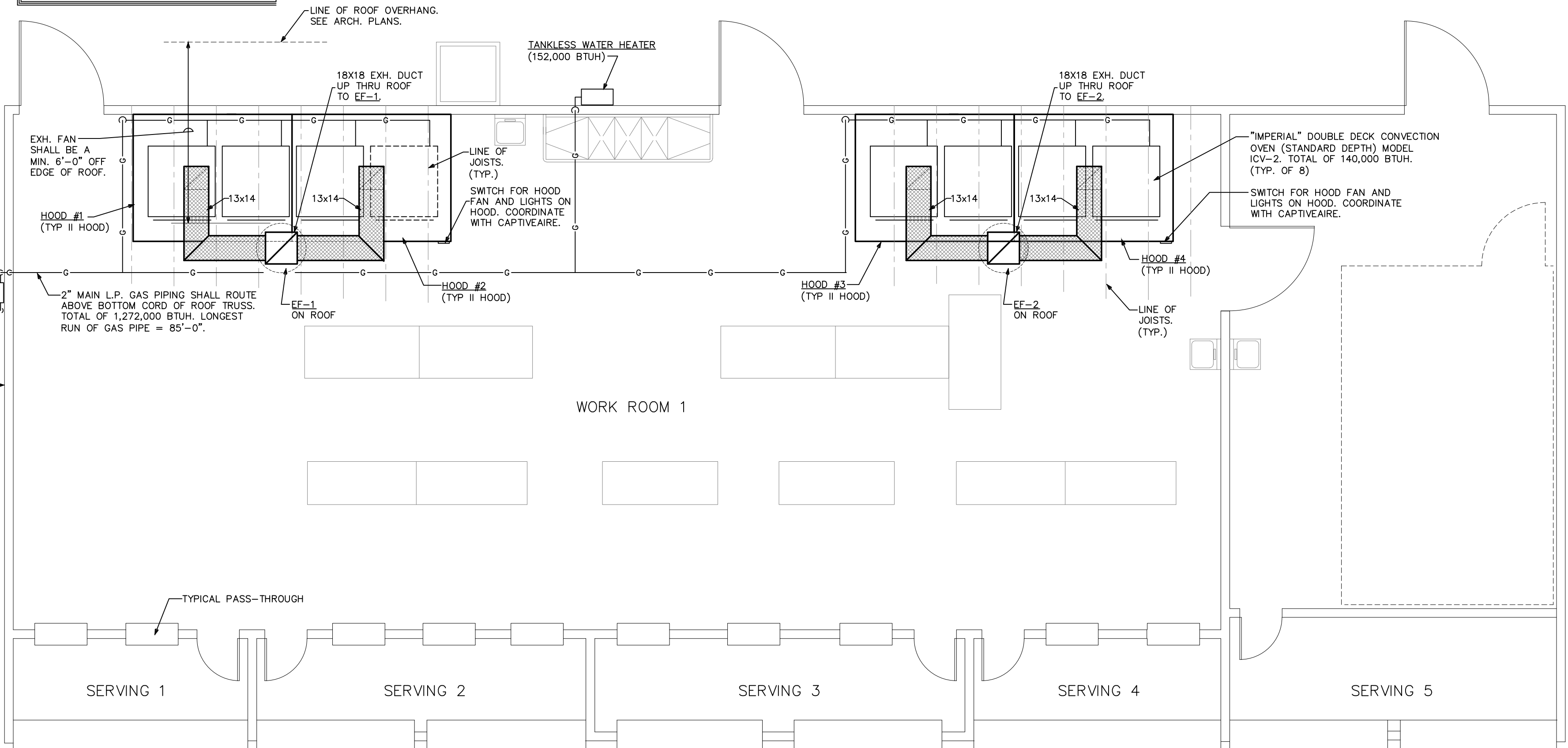
3 RINNAI WATER HTR. DETAIL
NO SCALE

L.P. GAS TANK AND PIPE TO SECONDARY REGULATOR BY L.P. GAS COMPANY. COORDINATE FINAL SIZE, LOCATION AND CONNECTIONS WITH LOCAL L.P. GAS COMPANY.

DOUBLE STACK OVEN BTU VALUE BASED ON AN "IMPERIAL" MODEL ICV-2. BTU INPUT RATING OF 70,000 PER OVEN. PRODUCT DATE: <http://goo.gl/4ofGLh>

DOUBLE STACK OVENS ARE USED FOR THE "RE-HEATING" OF "DIRE-COOKED" TURKEY LEGS, BREAD BOWLS, MEATBALLS, BEEF STEW AND CHICKEN ONLY.

NOTE:
INSTALLING CONTRACTOR TO VERIFY EXHAUST RISER LOCATIONS WITH FINAL TRUSS LAYOUT PRIOR TO CONSTRUCTION. (TYPICAL)



1 FLOOR PLAN - GAS PIPING
SCALE: 1/4" = 1'-0"

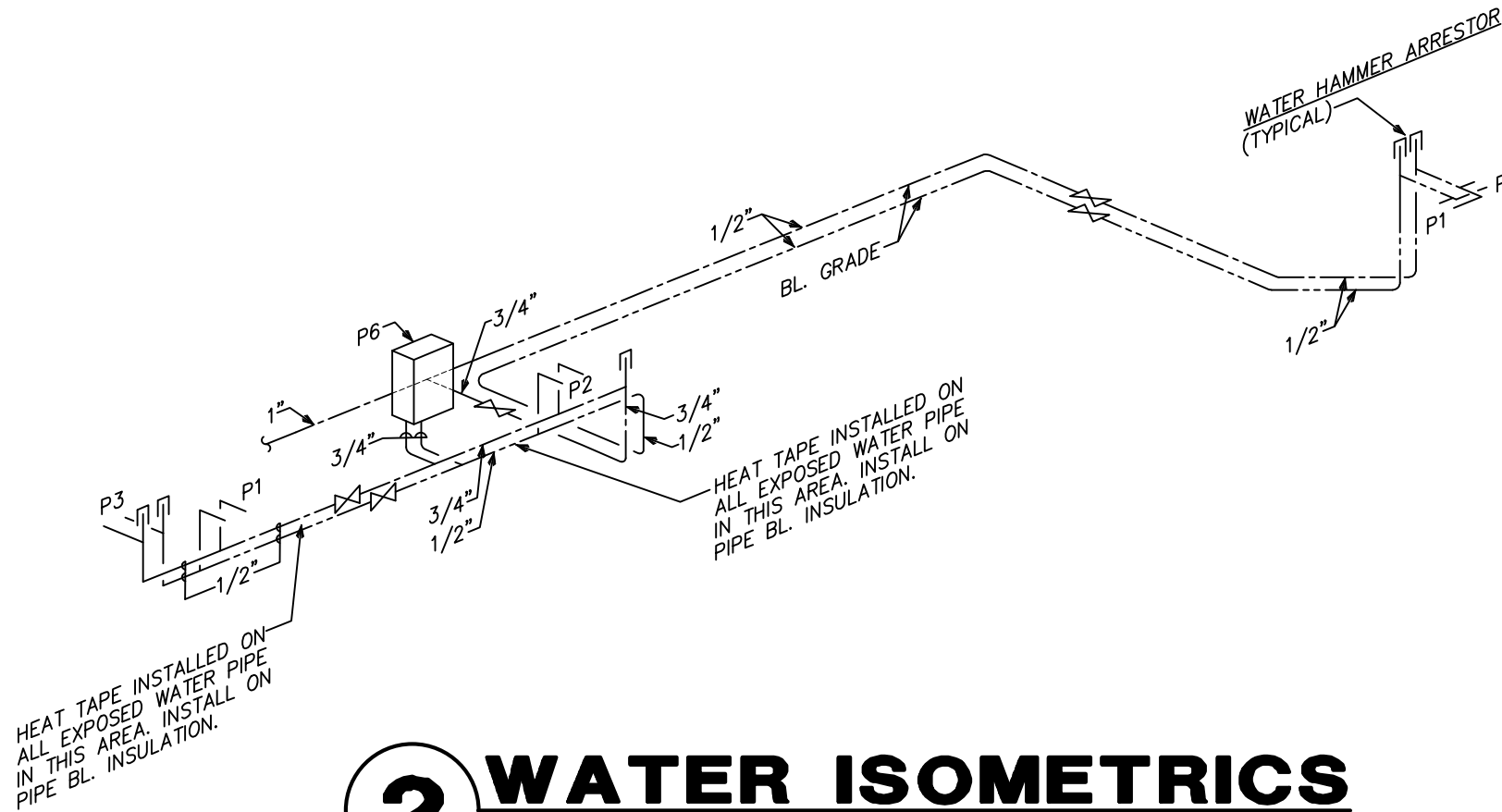
PLUMBING FIXTURE SCHEDULE

P-1 (STAINLESS STEEL WALL HUNG HAND SINK) SHALL BE A "JUST" MODEL A-544-912-T WALL HUNG STAINLESS STEEL HAND SINK. FABRICATED OF 20 GAUGE TYPE 304 STAINLESS STEEL. EXPOSED SURFACES POLISHED WITH A HAND-BLENDED JUST FINISH. INTEGRAL SUPPORT BRACKET AT REAR. INCLUDES ONE 14 GAUGE STAINLESS STEEL WALL CLIP. FAUCET SHALL BE A "JUST" MODEL JS-45-TGA. • http://www.justmfg.com/PDF/4-15AB.pdf
P-2 (STAINLESS STEEL 3 COMPARTMENT SINK) SHALL BE A "JUST" MODEL SB-345-24RL (12/14) STAINLESS STEEL 3 COMPARTMENT SINK WITH SIDE DRAIN BOARDS. 96"x24" - CONSTRUCTED OF 14 GAUGE TYPE 304, 18-8 STAINLESS STEEL. INTERIOR SURFACES POLISHED WITH A NON-POROUS HAND-BLENDED JUST FINISH. EXPOSED EXTERIOR SURFACES TO HAVE A BRUSH FINISH. SUPPORTED ON (4) 1-5/8" O.D. STAINLESS STEEL TUBULAR LEGS WITH ANGLE GUSSETS AND ADJUSTABLE BULLET FEET. DRAIN PUNCH #35 CENTERED FOR JUST J-35 UNLESS OTHERWISE SPECIFIED. FAUCETS SHALL BE "T&S BRASS AND BRONZE WORKS" MODEL B-0231. (TYPICAL OF 2) • SINK BOWLS A MIN. OF 21"Wx18"Lx14"D. • DRAIN BOARDS A MIN. OF 24"x24" • http://www.justmfg.com/PDF/6-24.pdf • http://catalog.tsbrass.com/specs/B-0200/B-0231.pdf
P-3 (FLOOR MOUNTED EXTERIOR CANWASH/MOP RECEPTOR W/TRAP SEAL) SHALL BE A FLORESTONE #70 36X36X6" MOLDED MOP BASIN WITH 3" OUTLET. "WOODFORD" MODEL 22 EXPOSED NON-FREEZE ANTI-SIPHON DUAL HOT/COLD WALL FAUCET COMPLETE WITH AUTOMATIC DRAINING HOSE CONNECTION BACKFLOW PREVENTER, AND 3/4 MALE HOSE CONNECTION. • http://www.florestone.com/mop_sinks/model_50-70.html • http://www.woodfordmfg.com/woodford/Wall_Faucet_Pages/Model-22.html CAN WASH TRAP SEAL SHALL BE A "SURE SEAL" MODEL SS3000 PREASSEMBLED INLINE FLOOR DRAIN TRAP SEALER. 5 PIECES: COMMERCIAL GRADE ABS PLASTIC HOUSING AND KEEPER PIN, PROPRIETARY NEOPRENE RUBBER DIAPHRAGM, WITH 2 SOFT RUBBER SEALING GASKETS. FLOOR RATING ASSE-1072 AF-GW. • http://www.thesuresseal.com/Portals/49321/docs/pitch_sheet_ss3000.pdf
P-4 (6" FLOOR DRAIN WITH TRAP SEAL) SHALL BE A JOSAM 30003-A-WI SERIES COATED CAST IRON FLOOR DRAIN. 3"ø PIPE CONNECTION, 6"ø DRAIN TOP. STRAINER TYPE 6A. TWO-PIECE BODY WITH DOUBLE DRAINAGE FLANGE. WEJLOC INVERTIBLE NON-PUNCTURING FLASHING COLLAR, WEEPHOLES, BOTTOM OUTLET AND ADJUSTABLE SATIN NIKALOY ROUND SUPER-FLO STRAINER. • http://www.josam.com/p/cast-iron-adjustable-round-top-floor-drain/30000-A FLOOR DRAIN TRAP SEAL SHALL BE A 3"ø "SURE SEAL" MODEL SS3000 PREASSEMBLED INLINE FLOOR DRAIN TRAP SEALER. 5 PIECES: COMMERCIAL GRADE ABS PLASTIC HOUSING AND KEEPER PIN, PROPRIETARY NEOPRENE RUBBER DIAPHRAGM, WITH 2 SOFT RUBBER SEALING GASKETS. FLOOR RATING ASSE-1072 AF-GW. • http://www.thesuresseal.com/Portals/49321/docs/pitch_sheet_ss3000.pdf
P-5 (FLOOR SINK W/SEDIMENT BUCKET) SHALL BE A JOSAM 49340A-3-31 SERIES SQUARE CAST IRON 8" DEEP SUPER-FLO-SEPTOR FLOOR SINK WITH PORC-COATED INTERIOR, DOUBLE DRAINAGE FLANGE WITH WEEPHOLES, BOTTOM OUTLET, ALUMINUM INTERNAL DOME STRAINER, AND CAST IRON, NON-TRAFFIC, PORC-COATED, ANTI-TILTING GRATE. WITH HALF GRATE AND ALUMINUM SEDIMENT BUCKET. • http://www.josam.com/catalog/JOS/pl=FS/49340A
P-6 (EXTERIOR TANKLESS GAS WATER HEATER) WATER HEATER SHALL BE A "RINNAI" MODEL RUB90e (KB2530WD), 152,000 BTUH INPUT. WALL MOUNT OUTSIDE BLDG. • https://goo.gl/CYrRs7

- NOTES:
- 1.) ALL PLUMBING FIXTURES SHALL BE AS SPECIFIED OR APPROVED EQUAL.
 - 2.) PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.

GENERAL PLUMBING NOTES

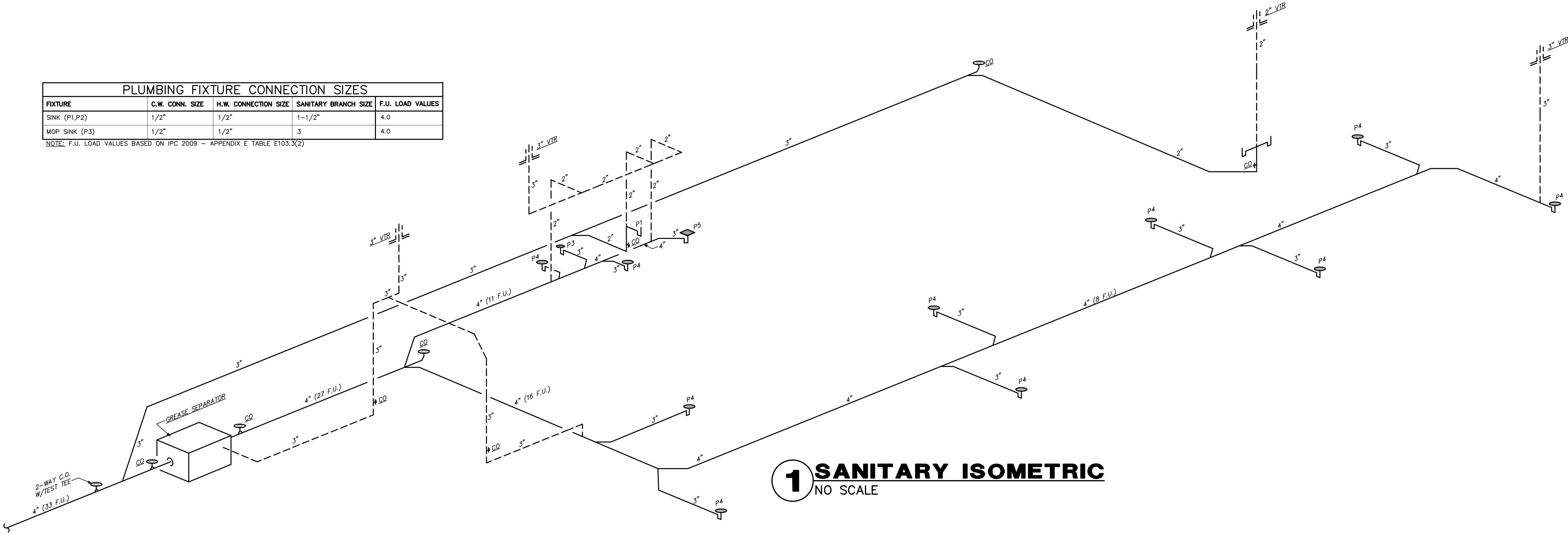
- 1.) DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, EQUIPMENT, ETC.. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING INSTALLATION. CONTRACTOR IS RESPONSIBLE TO INSTALL ALL FIXTURES AND EQUIPMENT IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. THIS REQUIREMENT IS TO SUPERSEDE ANY DETAILS OR INFORMATION CONTAINED ON THESE DRAWINGS.
- 2.) ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL, STATE, AND ALL LOCAL CODES AND ORDINANCES HAVING JURISDICTION.
- 3.) THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. ALL EXECUTION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
- 4.) ALL MATERIAL SHALL BE NEW.
- 5.) ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT
- 6.) ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OR PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- 7.) THE PLUMBING CONTRACTOR SHALL SECURE AND PAY ALL PERMIT FEES, INSPECTIONS, AND TESTS.
- 8.) ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- 9.) THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) ONE YEAR FROM DATE OF ACCEPTANCE. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- 10.) VERIFY LOCATION, SIZE AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. ADVISE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
- 11.) ALL FIXTURES SHALL BE PROVIDED WITH READILY ACCESSIBLE STOPS.
- 12.) ALL BELOW FLOOR SLAB WATER PIPING SHALL BE FLEXIBLE "TEMPRITE PEX (CROSS-LINKED POLYETHYLENE)" INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS FOUND HERE: WWW.LUBRIZOL.COM. ALL ABOVE SLAB WATER PIPING SHALL BE "FLOWGUARD GOLD CPVC" INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS FOUND HERE: WWW.FLOWGUARDGOLD.COM. ALL WATER PIPING AS SPECIFIED OR APPROVED EQUAL.
- 13.) SOIL, WASTES AND VENT PIPING SHALL BE PVC #40 DMV. WASTE AND VENT PIPING ABOVE SLAB SHALL BE PVC, IF APPROVED BY LOCAL AUTHORITIES HAVING JURISDICTION, OTHERWISE CAST IRON. PVC SHALL NOT BE INSTALLED IN A/C RETURN AIR PLENUM OR PENETRATE FIRE RATED WALLS OR FLOORS.
- 15.) FURNISH AND INSTALL APPROVED WATER HAMMER ARRESTORS AT EACH GROUP OF FIXTURES. INSTALLATION OF WATER HAMMER ARRESTORS SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE AND INSTALL AN APPROVED WATER HAMMER ARRESTOR AT EACH FIXTURE OR DEVICE THAT HAS A SOLENOID WATER CONTROL VALVE.
- 16.) PROVIDE CHROME PLATED COMBINATION COVERED PLATE AND CLEANOUT PLUG FOR ALL WALL CLEANOUTS, JOSAM 58890.
- 17.) INSULATE LINES AS FOLLOWS:
 - A.) 1-1/2" THICK ARMAFLEX PREFORMED INSULATION SHALL BE PROVIDED ON BOTH C.W. & H.W. WHEN PIPING IS LOCATED OUTSIDE OF THE INSULATED BUILDING ENVELOPE.



2 WATER ISOMETRICS
NO SCALE

PLUMBING FIXTURE CONNECTION SIZES				
FIXTURE	C.W. CONN. SIZE	H.W. CONNECTION SIZE	SANITARY BRANCH SIZE	F.U. LOAD VALUES
SINK (P1,P2)	1/2"	1/2"	1-1/2"	4.0
MOP SINK (P3)	1/2"	1/2"	3	4.0

NOTE: F.U. LOAD VALUES BASED ON IPC 2009 - APPENDIX E TABLE E103.3(2)



1 SANITARY ISOMETRIC
NO SCALE

EXHAUST FAN INFORMATION – Job#2362609

FAN UNIT NO.	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)	SONES
EF-1	NCA14FA	2250	0.700	1182	1.000	0.5480	3	208	3.9	124	14.1
EF-2	NCA14FA	2250	0.700	1182	1.000	0.5480	3	208	3.9	124	14.1

FAN OPTIONS

FAN UNIT NO.	OPTION (Qty. – Descr.)
EF-1	1 – Grease Box
EF-2	1 – Grease Box

FAN ACCESSORIES

FAN UNIT NO.	EXHAUST	SUPPLY					
	GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
EF-1	YES						
EF-2	YES						

CURB ASSEMBLIES

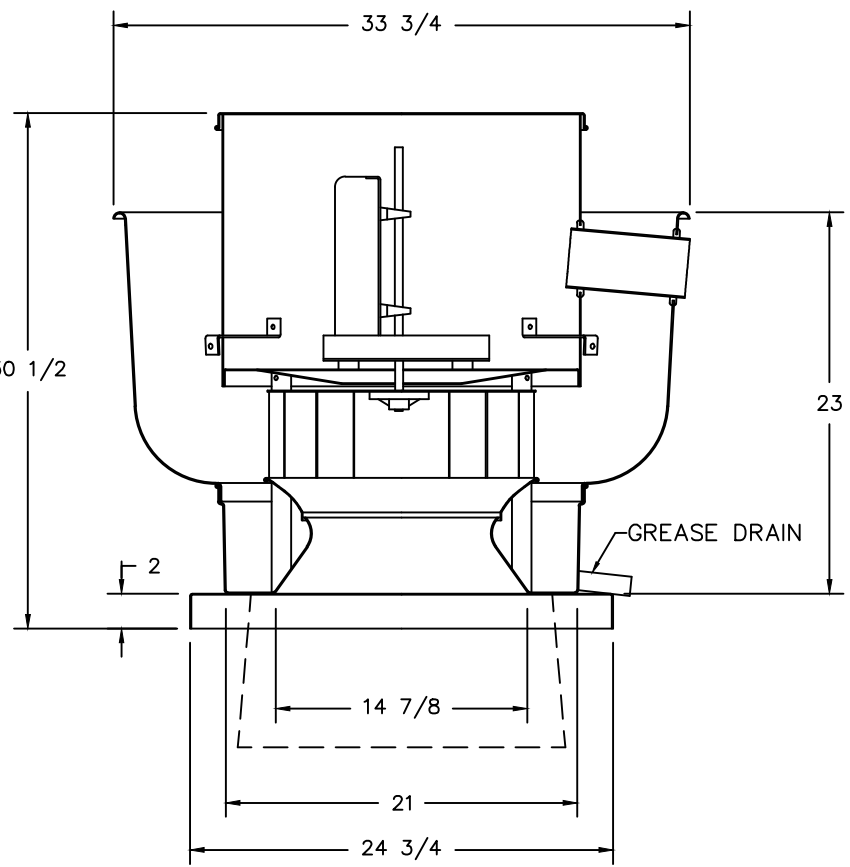
NO.	ON FAN	WEIGHT	ITEM	SIZE		
EF-1	# 1	37 LBS	Curb	23.000"W x 23.000"L x 24.000"H	3,000:12,000 Pitch	Vented Hinged
EF-2	# 2	37 LBS	Curb	23.000"W x 23.000"L x 24.000"H	3,000:12,000 Pitch	Vented Hinged

HOOD INFORMATION – Job#2362609

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	TOTAL EXH. CFM	EXHAUST PLENUM RISER(S)				HOOD CONSTRUCTION	HOOD CONFIG. END TO END	ROW	SWITCHES	
						WIDTH	LENG.	DIA.	CFM	S.P.			QUANTITY	LOCATION
1		7224 VHB-G-ND	7' 6.00"	700 Deg.	1125	13"	14"		1125	-0.084"	430 SS 100%	LEFT ALONE	1 FAN 1 LIGHT	FRONT LEFT FACE
2		7224 VHB-G-ND	7' 6.00"	700 Deg.	1125	13"	14"		1125	-0.084"	430 SS 100%	RIGHT ALONE		
3		7224 VHB-G-ND	7' 6.00"	700 Deg.	1125	13"	14"		1125	-0.084"	430 SS 100%	LEFT ALONE	1 FAN 1 LIGHT	FRONT LEFT FACE
4		7224 VHB-G-ND	7' 6.00"	700 Deg.	1125	13"	14"		1125	-0.084"	430 SS 100%	RIGHT ALONE		

HOOD INFORMATION

HOOD NO.	TAG	FILTER(S)				EFFICIENCY @ 9 MICRONS	QTY.	LIGHT(S)				WIRE GUARD	LOCATION	UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WGT.
		TYPE	QTY.	HEIGHT	LENGTH			TYPE	TYPE	SIZE	MODEL #	QUANTITY		TYPE	SIZE	MODEL #	QUANTITY		
1							3	L55 Series E26				NO						NO	306 LBS
2							3	L55 Series E26				NO						NO	306 LBS
3							3	L55 Series E26				NO						NO	306 LBS
4							3	L55 Series E26				NO						NO	306 LBS



EF-1 & 2 – NCA14FA EXHAUST FAN

FEATURES:

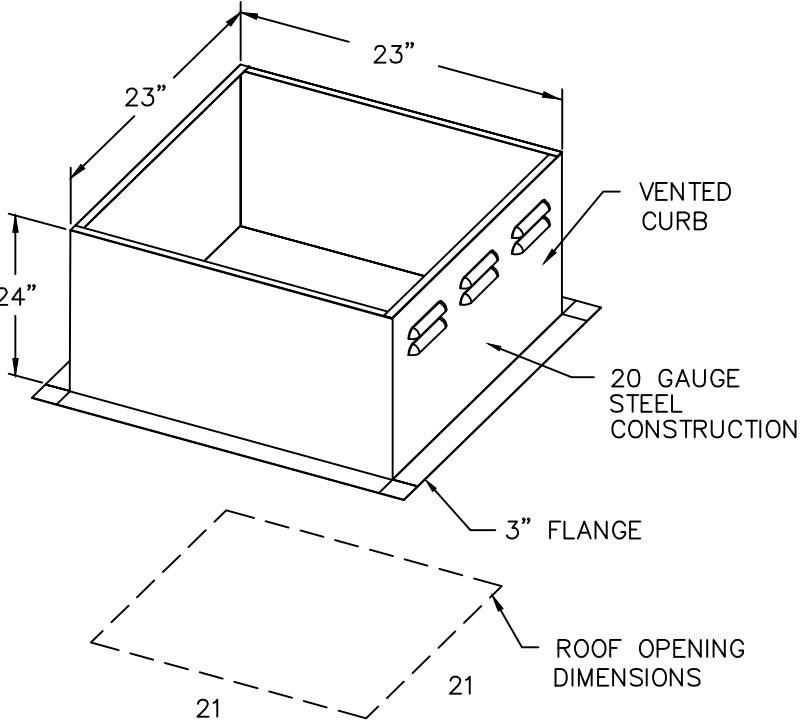
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- AMCA SOUND AND AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT SWITCH
- WEATHERPROOF DISCONNECT
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

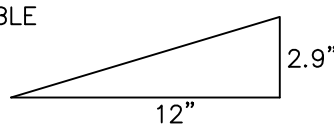
OPTIONS

GREASE BOX



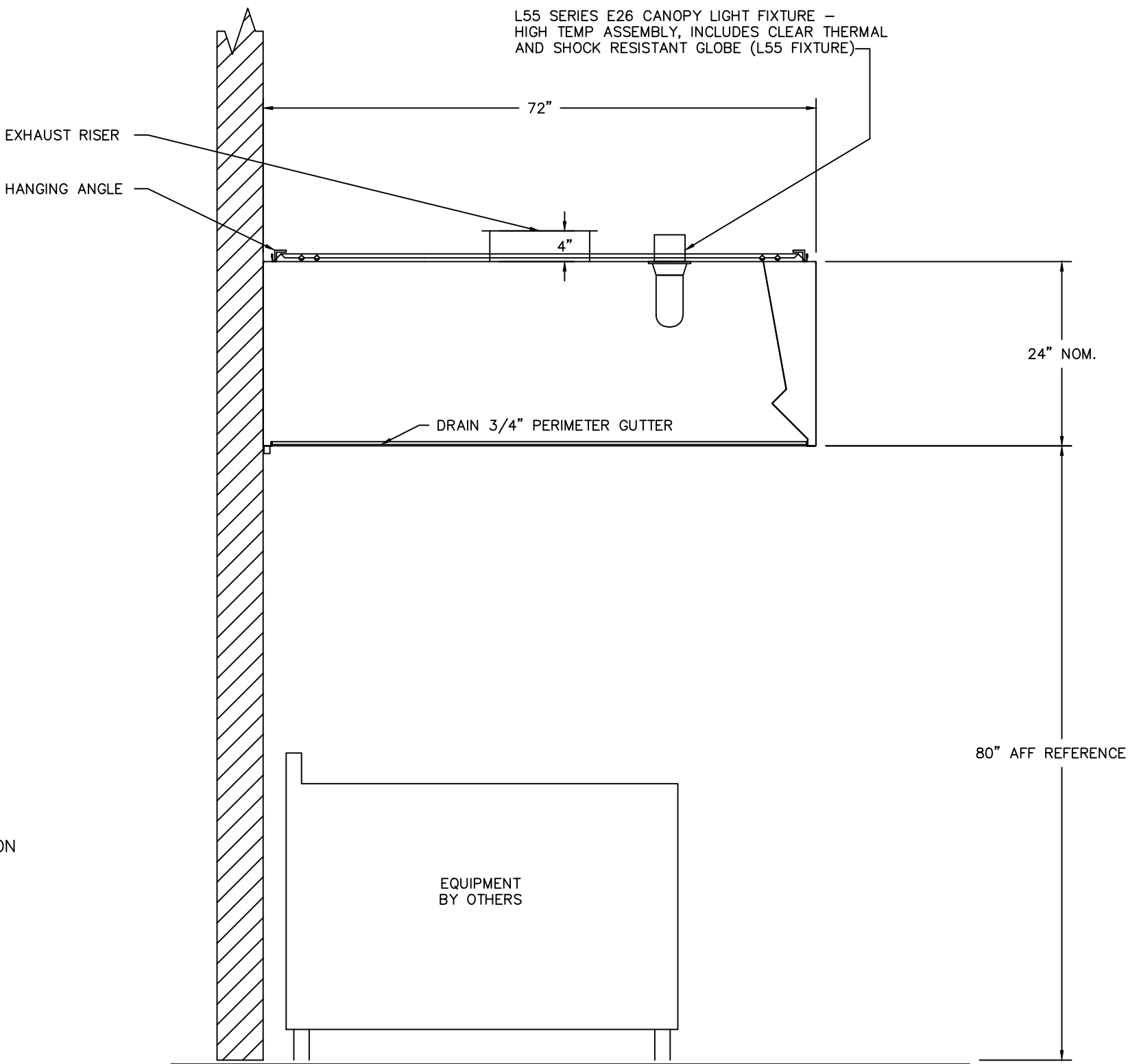
PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFIED PITCH:
ROOF IS: 2.9/12 PITCH
24% SLOPE



FOR QUESTIONS, CALL THE
CHARLOTTE, NORTH CAROLINA
AVERY GRANT
PHONE: 704-844-9088, FAX: 704-844-0599
EMAIL: reg30@captiveair.com

CAPTIVEAIR

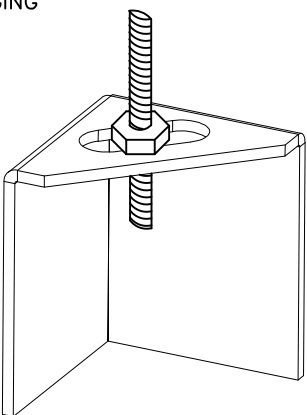


SECTION VIEW – MODEL 7224VHB-G-ND

HOODS – #1, #2, #3, #4

1/2" DIA. ALL THREAD ROD
CONNECTED TO ROOF JOIST
THROUGH ANOTHER HANGING
ANGLE

1/2" DIA. HEAVY DUTY NUT
ONE ABOVE AND ONE BELOW
HANGING ANGLE



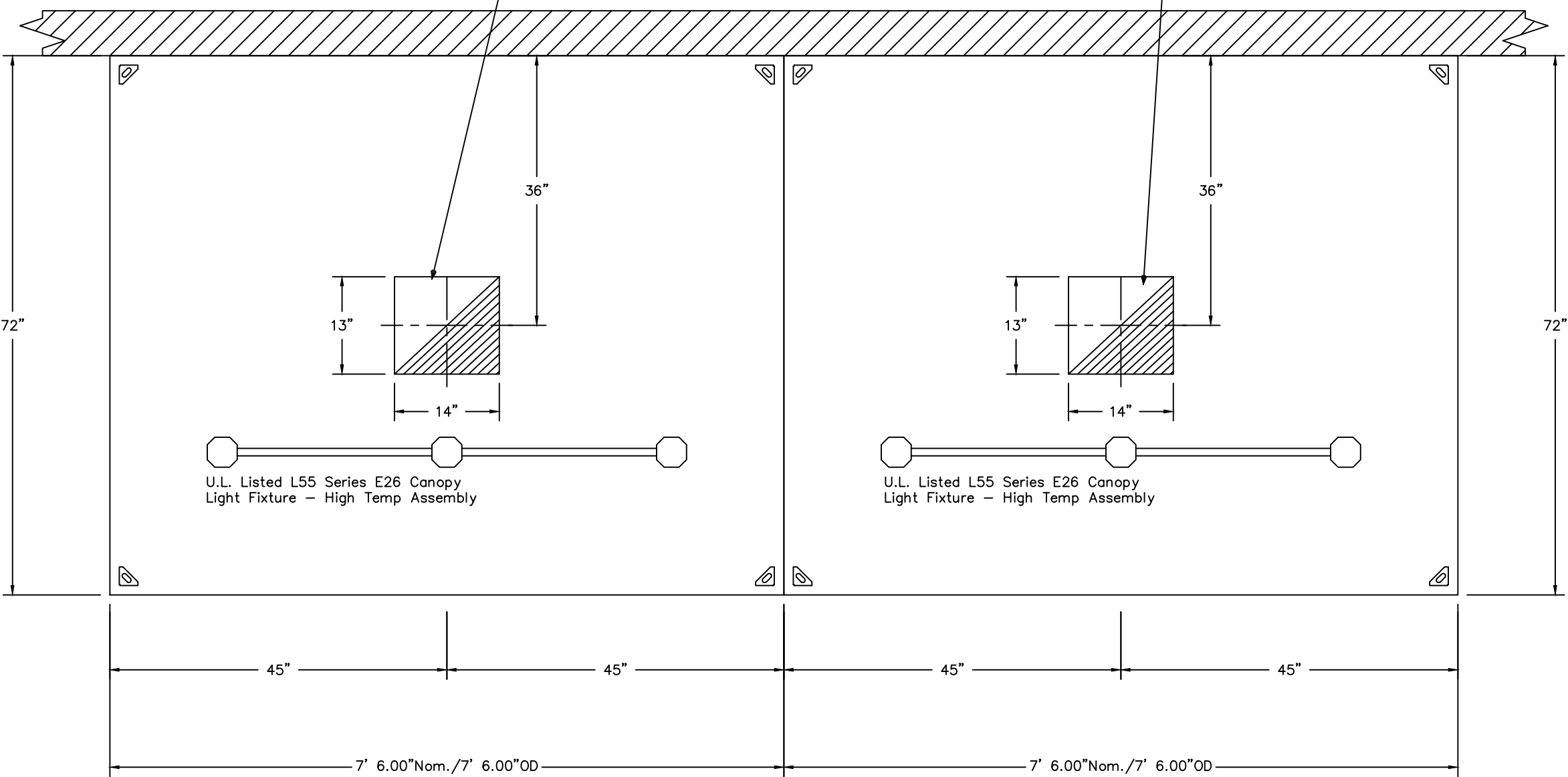
NOTE:
COORDINATE FINAL INSTALLATION
WITH ARCHITECT AND TRUSS
COMPANY PRIOR TO INSTALLATION.

*ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR
HANGING ANGLE IS PRE-PUNCHED AT FACTORY

ND-2 HANGING ANGLE DETAIL

NOTE:
INSTALLING CONTRACTOR TO VERIFY
EXHAUST RISER LOCATIONS WITH FINAL
TRUSS LAYOUT PRIOR TO CONSTRUCTION.
(TYPICAL)

RANGE HOOD EXHAUST DUCTS MATERIAL: 22 GAUGE
GALVANIZED STEEL. CONSTRUCTION. (TYPICAL)

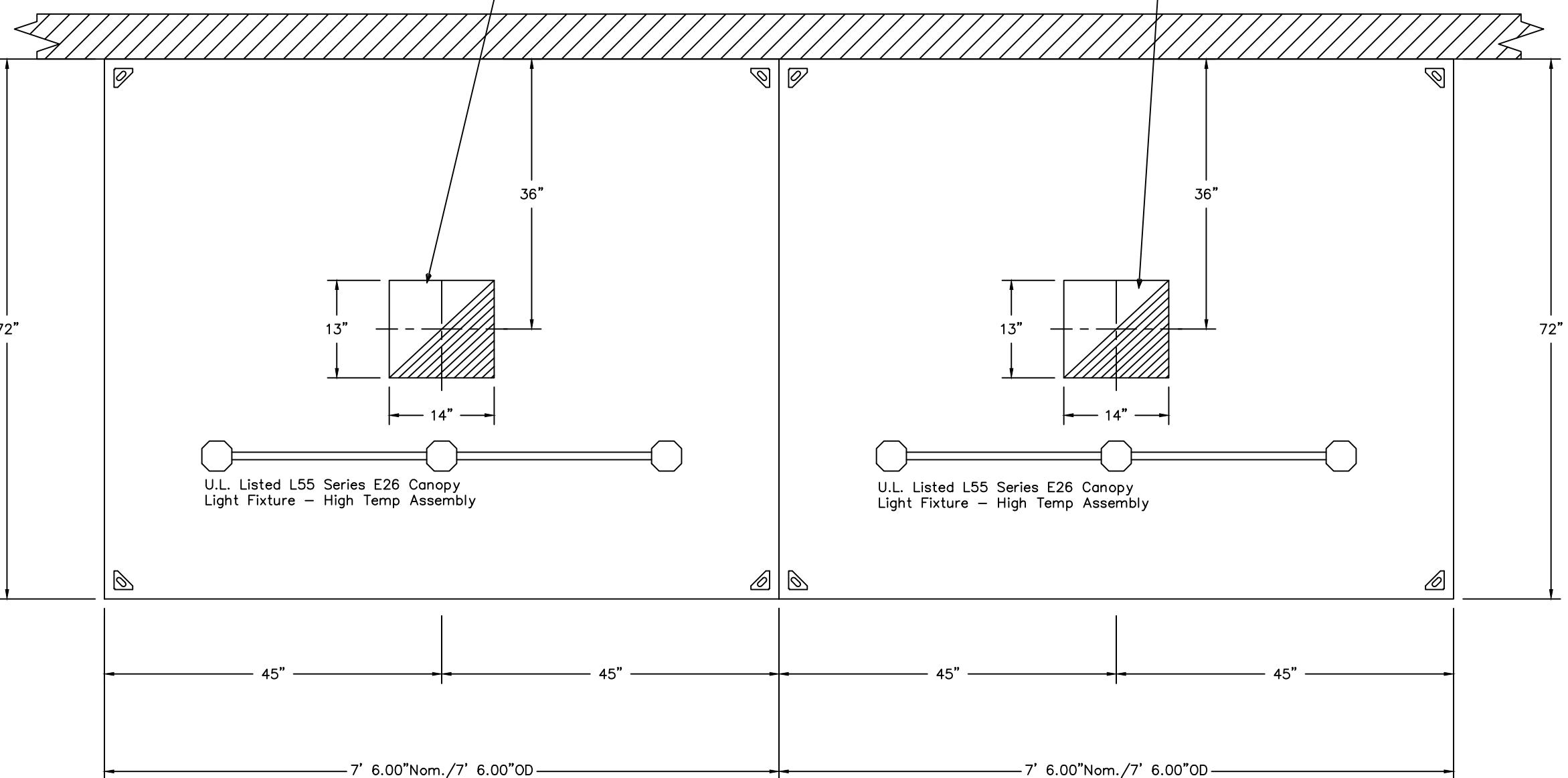


PLAN VIEW – Hood #1
7' 6.00" LONG 7224VHB-G-ND

PLAN VIEW – Hood #2
7' 6.00" LONG 7224VHB-G-ND

NOTE:
INSTALLING CONTRACTOR TO VERIFY
EXHAUST RISER LOCATIONS WITH FINAL
TRUSS LAYOUT PRIOR TO CONSTRUCTION.
(TYPICAL)

RANGE HOOD EXHAUST DUCTS MATERIAL: 22 GAUGE
GALVANIZED STEEL. CONSTRUCTION. (TYPICAL)



PLAN VIEW – Hood #3
7' 6.00" LONG 7224VHB-G-ND

PLAN VIEW – Hood #4
7' 6.00" LONG 7224VHB-G-ND



RELOC 200A/120/208V/3ø/4W
PANELBOARD WITH A 200A/3P
MCB.

UTION PANEL "C1"
120V/3ø/MLO

NEW 1-1/2" CU. WITH
(4) #1 THWN CU
CONDUCTORS AND
(1) #6 CU GROUND.

PROVIDE GROUNDING AS
PER REQUIREMENTS OF
NEC-250.

NEW 2" PVC CONDUIT W/ (4)
#3/0 THWN CU CONDUCTORS
AND (1) #4 CU BOND.

EXTG 100A/3P/NEMA3R
W/ 3F/ 100A.

EXTG 75 KVA STEPDOWN
TRANSFORMER, 480V DELTA
PRIMARY, 120/208V/3ø/4W
SECONDARY IN A NEMA3R
ENCLOSURE.

EXTG 1-1/4" PVC CONDUIT W/
(3) #3 THWN CU CONDUCTORS
AND (1) #6 CU BOND.

#4 CU GROUND

EXTG NEMA3R WIREWAY

EXTG 400A
SERVICE
DISCONNECT

EXISTING 300 KVA UTILITY CO. TRANSFORMER WITH
A 277/480V/3ø SECONDARY. A REVIEW OF UTILITY CO.
RECORDS INDICATE A PEAK KWD OF 61KW FOR
THE PAST 12 MONTHS OCCURED ON 11/26/14.

EXISTING 800A DUKE POWER
SERVICE FEEDERS, APPROX. 15'
FROM TRANSFORMER TO WIREWAY.

EXISTING GROUNDING SYSTEM
TO REMAIN

TYPICAL EXTG 100A FUSED
DISCONNECTS TO FEED
VARIOUS AREA TRANS.
AND PANELS.

AIC CALCULATIONS

300 KVA TRANSFORMER WITH 2.3% IMPEDANCE 277/480V/3ø

TRANSFORMER FLA = $300,000 / 831 = 361$ A.

IMPEDANCE MULTIPLIER $100/2.3 = 43.4783$

AVAILABLE FAULT CURRENT = $361 \times 43.4783 = 15,596$ A.

FEEDER OF (2) SETS OF #3/0 CU IN A PVC CONDUIT WITH
AN EXPECTED LENGTH OF 20 FEET.

$f = \frac{1.73 \times 20 \times 15,596}{27,846 \times 480} = 0.040372$

THE LET THRU ON THE 400A FUSED MAIN DISCONNECT
FEEDING THE WIREWAY IS LESS THAN 10K, SO ALL
BRACING SHOULD BE 10K RATED.

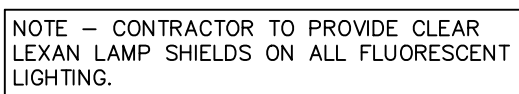
SERVICE JUSTIFICATION FOR THE EXISTING SERVICE

EXISTING PEAK LOAD ON THIS SERVICE IS 61 KW,
OR 73.4 AMPS AT 277/480V/3Ø. USING NEC-220-84,
THE SERVICE LOAD CAN BE EXPECTED TO BE 73.4 X 1.25
OR 92 AMPS. THE 400 AMP SERVICE IS WILL NOW HAVE
AN EXPECTED LOAD OF 135 AMPS WITH THE LOAD OF
THE CONCESSION STAND ADDED.

PANEL NOTES:
* - PROVIDE CFCI PROTECTED BREAKER FOR THIS CIRCUIT

62,794

PANEL C DIVERSIFICATION CALCULATIONS	
RECEPTACLES (19) - 3420 VA TOTAL	
FIRST 10 KVA AT 100% -	3420
LIGHTING - 830 X 125% -	1048
MOTOR LOADS AT 100% -	3312
PLUS 25% OF THE LARGEST MOTOR -	414
MISC NON-CONTINUOUS LOADS AT 100% -	600
MISC CONTINUOUS LOADS AT 125% -	
400 X 1.25 -	500
KITCHEN EQUIPMENT (16) -	
65916 X 0.65 -	42845
TOTAL DIVERSIFIED PANEL LOAD -	52139
LOAD AT 120/208V, 3-PHASE 4-WIRE -	144.8A



SCALE: $1/4"=1'-0"$

[illegible]

EXISTING 75 KVA
TRANSFORMER ON SITE.
VERIFY TRANSFORMER WILL
BE WITHIN 25 FEET OF THE
RELOCATED PANEL, OR
RELOCATE TRANSFORMER
AS REQUIRED.