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GENERAL NOTES:

- THE EXACT MOUNTING HEIGHTS AND LOCATIONS OF ALL HVAC EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL OTHER MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL SYSTEMS.
- VERIFY ALL EQUIPMENT VOLTAGES WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.
- PROVIDE DISCONNECT SWITCHES FOR ALL HVAC EQUIPMENT INCLUDING WEATHERPROOF DISCONNECT AS REQUIRED.
- PROVIDE PHASE LOSS PROTECTION FOR ALL POLY-PHASE MOTOR DEVICES.
- THE FINAL LOCATION OF AIR DEVICES MUST BE COORDINATED WITH THE REFLECTED CEILING PLAN AND ALL OTHER MECHANICAL, ELECTRICAL, FIRE PROTECTION, ARCHITECTURAL, AND STRUCTURAL SYSTEMS.
- PROVIDE FLEXIBLE CONNECTIONS AT ALL DUCT CONNECTIONS TO VIBRATING EQUIPMENT. THESE CONNECTIONS SHALL BE INSTALLED IN CLOSE PROXIMITY TO SUCH EQUIPMENT.
- ALL CEILING MOUNTED EQUIPMENT MUST BE SUPPORTED DIRECTLY FROM BUILDING STRUCTURE WITH COMBINATION SPRING AND NEOPRENE-IN-SHEAR HANGERS AND ROD. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED TO ADEQUATELY SUPPORT THE LOAD.
- ALL ROOFTOP HVAC EQUIPMENT SHALL BE INSTALLED SUFFICIENTLY AWAY FROM EDGE OF ROOF SO AS TO ALLOW FOR THE INSTALLATION OF PROPER FLASHING TO ENSURE A WEATHER TIGHT SEAL. IN ADDITION, ADEQUATE CLEARANCES SHALL BE PROVIDED FOR CLEANING AND MAINTENANCE REQUIREMENTS. THE FINAL LOCATION OF ALL ROOFTOP UNITS MUST ALSO COMPLY WITH ALL OSHA SAFETY REQUIREMENTS. WHEN MINIMUM REQUIRED DISTANCE CANNOT BE MAINTAINED, IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE AND INSTALL CODE COMPLIANT SAFETY RAILS.
- SUPPLY AND RETURN GRILLES FOR WASHDOWN VENTILATION ARE STAINLESS STEEL WITH MOTORIZED DAMPERS AND A DRAIN. SEE THE DETAIL ON M-301.

HVAC KEY NOTES

Number	Text
1	UNIT HEATER LOCATED ABOVE CEILING TO SERVE INTERSTITIAL SPACE
2	PLACE UV LIGHT IN SUPPLY DUCT. SEE M-302 FOR UV LIGHT SPECIFICATIONS

Date	Revision	Description
05/06/22	1	ISSUED FOR CLIENT REVIEW
01/14/22	2	REVISION

Revisions



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Edgewater, NJ 07020

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Lorenzo Foods Teterboro
25 CENTRAL AVE
TETERBORO, NJ, 07608

DOB STAMP

ISSUED FOR: REVIEW BUILDING DEPT CONSTRUCTION

BRIAN D. TANNENHAUS

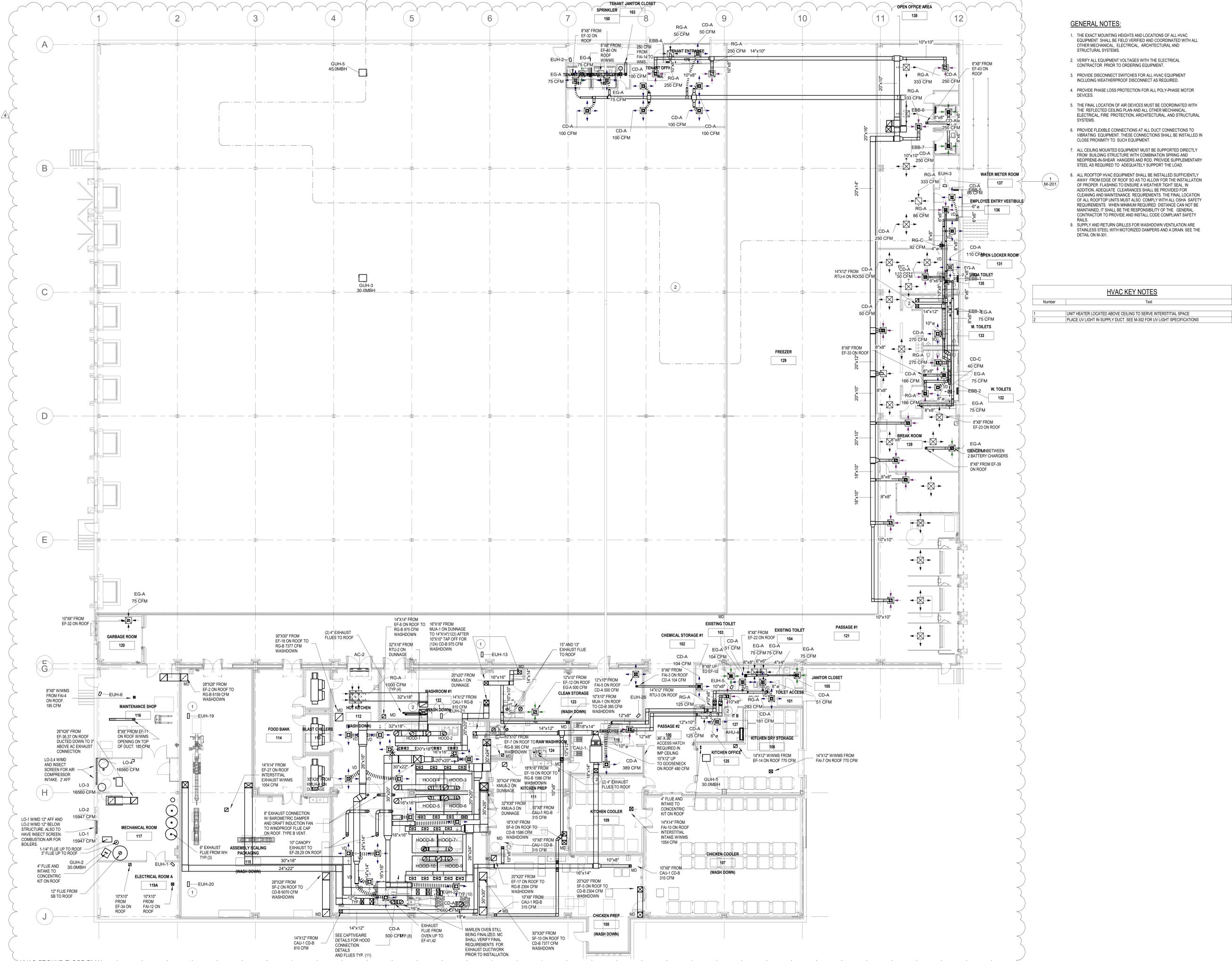
NJ PROFESSIONAL ENGINEER
NO. CE 48015
DATE: 02/24/2022

HVAC GROUND FLOOR PLAN

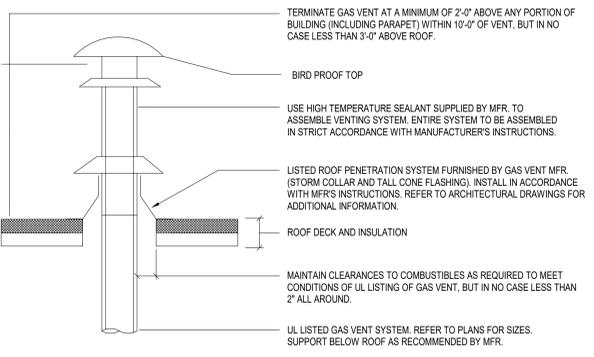
scale	As indicated
release date	05/06/22
drawing date	09/24/2021
drawn by	ZW
approved by	KF
project no.	2102
drawing no.	M-200.00

DOB BARCODE

Total



HVAC GROUND FLOOR PLAN
3/32" = 1'-0"

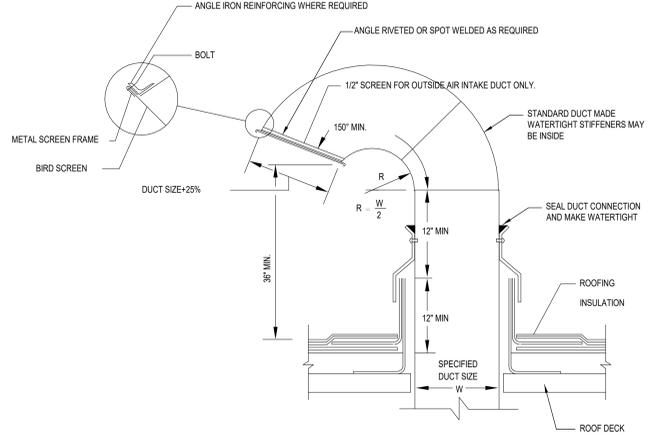


GAS FLUE DETAIL
SCALE: NONE

(ANSI) VENT SYSTEM CATEGORIES

NON-CONDENSING		CONDENSING	
Category I Vent Type: B-Vent Double Wall	Category III Vent Type: Forced Draft: UL P-Stack Double Wall Direct Vent: AL29-4C Double Wall	Category II Vent Type: AL-294C Double Wall	Category IV Vent Type: AL-294C Double Wall
NEGATIVE PRESSURE			POSITIVE PRESSURE

- NOTES:
1. THIS VENT SYSTEM CATEGORY MATRIX IS PROVIDED TO INDICATE THE VENT MATERIAL TYPE THAT WILL BE REQUIRED BASED UPON THE APPLIANCE VENTING REQUIREMENTS.
 2. VENTING MATERIAL SHALL MATCH THE APPLIANCE TYPE AND BE PER THE MANUFACTURER'S REQUIREMENTS.
 3. THE VENT TYPE SHOWN IS THE TYPE REQUIRED UNLESS OTHERWISE NOTED ON THE PLANS. ALTERNATES WILL BE REVIEWED IF THE MANUFACTURER OF THE APPLIANCE APPROVES A DIFFERENT VENTING MATERIAL. THIS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER DURING THE BIDDING PROCESS. FAILURE TO PROVIDE THIS DURING THE BIDDING PROCESS WILL RESULT IN THE DENIAL OF ANY ADDITIONAL CHARGES.



GOOSENECK DETAIL
SCALE: NONE

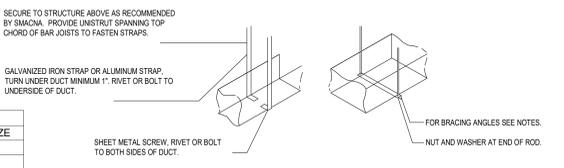
MINIMUM CONDENSATE PIPE SIZES

TONS OF COOLING	MIN DRAIN SIZE
0-20	1"
21-40	1-1/4"
41-60	1-1/2"
61-100	2"
100-250	3"
250 AND LARGER	4"

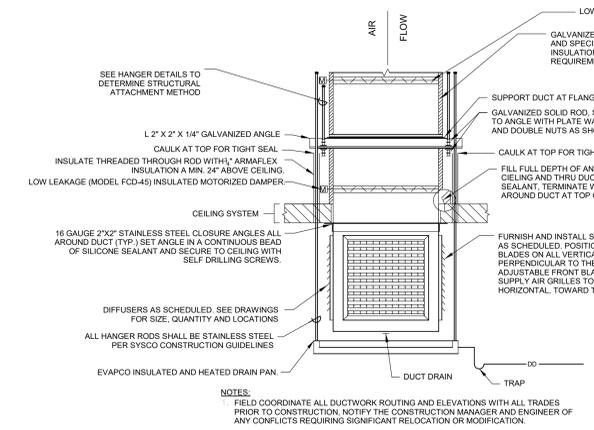
HVAC UNIT CONDENSATE PIPING SIZING CHART
SCALE: NONE

RECTANGULAR DUCT HANGER SCHEDULE (MINIMUM SIZES)

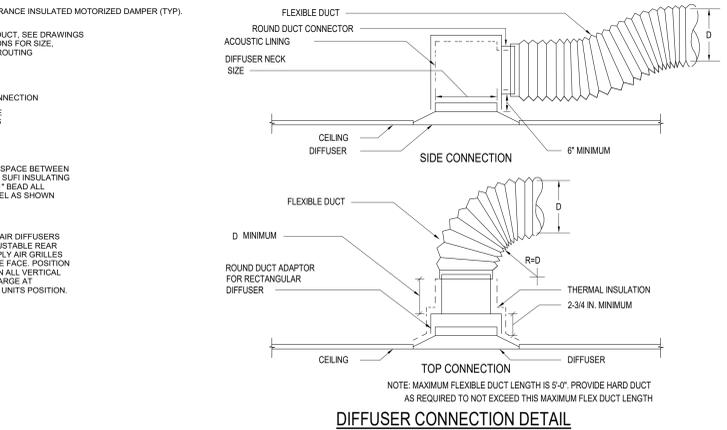
HALF DUCT PERIMETER RANGE	PAIR AT 10' SPACING		PAIR AT 8' SPACING		PAIR AT 5' SPACING		PAIR AT 4' SPACING	
	STRAP	WIRE ROD	STRAP	WIRE ROD	STRAP	WIRE ROD	STRAP	WIRE ROD
Pd x 30"	1 1/2" GA.	10 GA. (0.187)	1 1/2" GA.	10 GA. (0.187)	1 1/2" GA.	10 GA. (0.187)	1 1/2" GA.	10 GA. (0.187)
Pd x 12"	1 1/8" GA.	3/8"	1 1/8" GA.	3/8"	1 1/8" GA.	3/8"	1 1/8" GA.	3/8"
Pd x 6"	1 1/8" GA.	3/8"	1 1/8" GA.	3/8"	1 1/8" GA.	3/8"	1 1/8" GA.	3/8"
Pd x 120"	1-12 1/8 GA.	1/2"	1 1/8" GA.	3/8"	1 1/8" GA.	3/8"	1 1/8" GA.	3/8"
Pd x 180"	1-12 1/8 GA.	1/2"	1 1/8" GA.	3/8"	1 1/8" GA.	3/8"	1 1/8" GA.	3/8"
Pd x 182"	1 1/2"	1/2"	1-12 1/8 GA.	1/2"	1 1/8" GA.	3/8"	1 1/8" GA.	3/8"



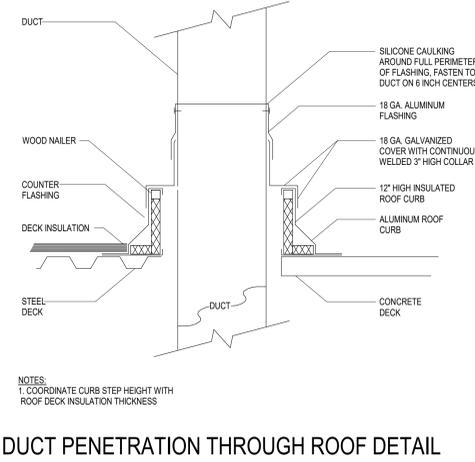
DUCT HANGER DETAILS
SCALE: NONE



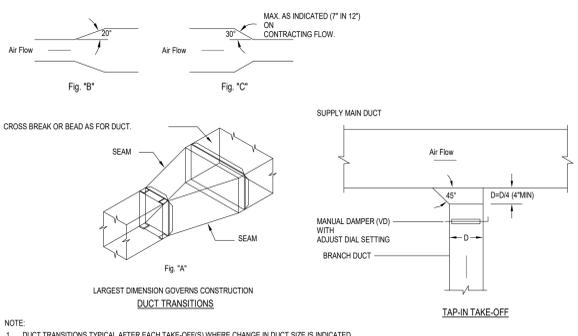
CRITICAL AIR/WASHDOWN EXHAUST/MAKE-UP AIR PLENUM DETAIL: CD-B AND RG-B
SCALE: NONE



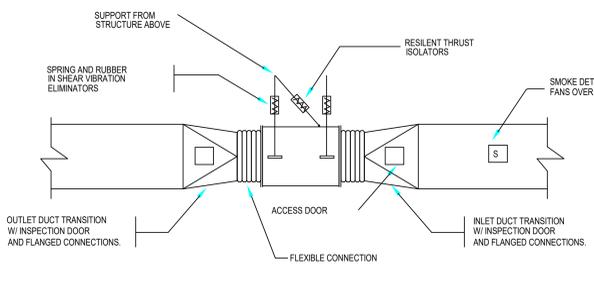
DIFFUSER CONNECTION DETAIL
SCALE: NONE



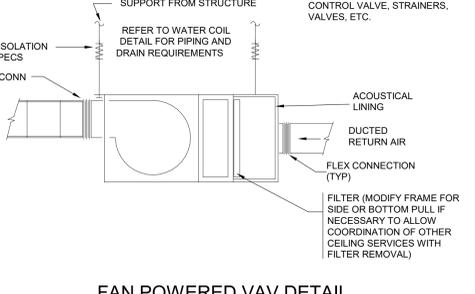
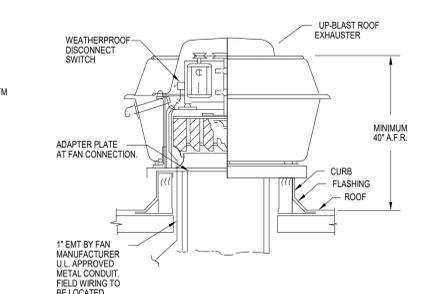
DUCT PENETRATION THROUGH ROOF DETAIL
SCALE: NONE



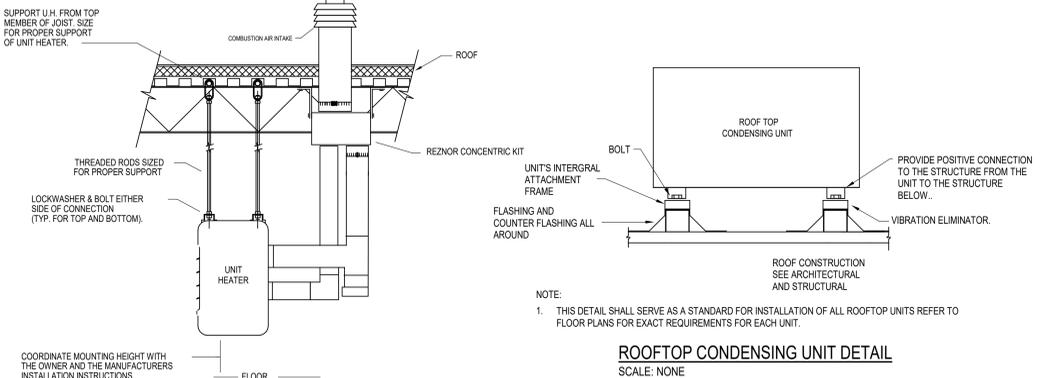
DUCT TRANSITION DETAILS
SCALE: NONE



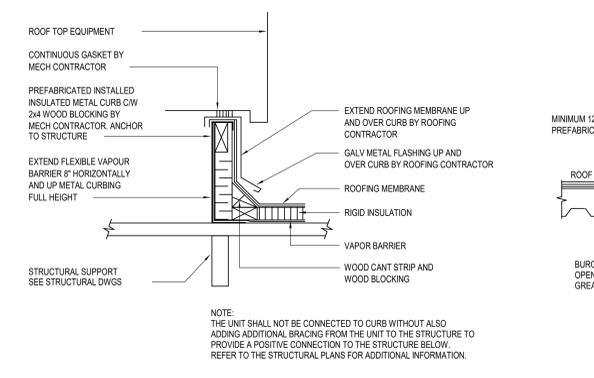
VANE-AXIAL FAN INSTALLATION DETAIL



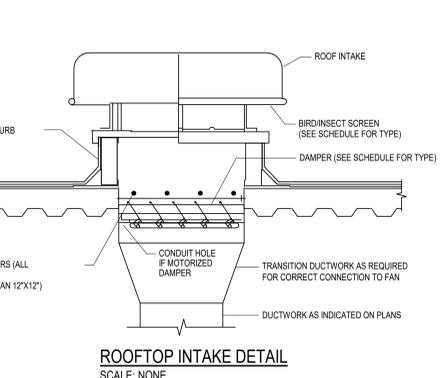
FAN POWERED VAV DETAIL
SCALE: NONE



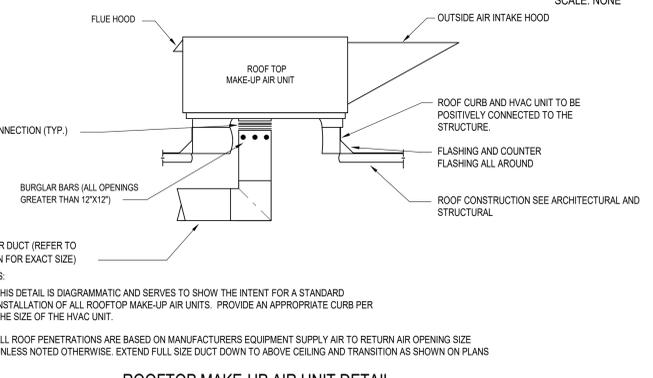
ROOFTOP CONDENSING UNIT DETAIL
SCALE: NONE



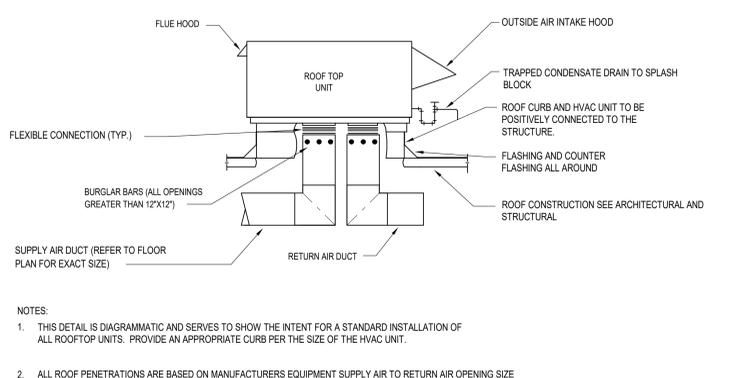
ROOFTOP EQUIPMENT CURB DETAIL
SCALE: NONE



ROOFTOP INTAKE DETAIL
SCALE: NONE



ROOFTOP MAKE-UP AIR UNIT DETAIL
SCALE: NONE



ROOFTOP HVAC UNIT DETAIL
SCALE: NONE

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IMPORTANT SPECIAL UDS PARTS/NOTES	
★	BOTH STEAM LINE INSULATION THICKNESS TBD.
★	STEAM SUPPLY SERVICE FROM ABOVE, SEE SCHEDULE FOR SERVICE SIZE (PROVIDED BY PLUMBING CONTRACTOR)
★	COND. RETURN SERVICE FROM ABOVE, SEE SCHEDULE FOR SERVICE SIZE (PROVIDED BY PLUMBING CONTRACTOR)

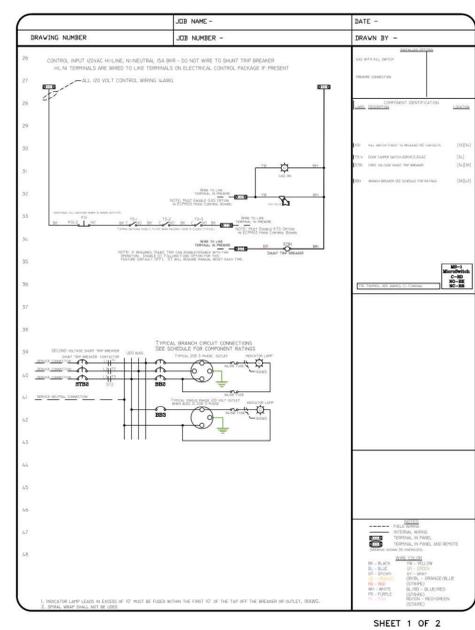
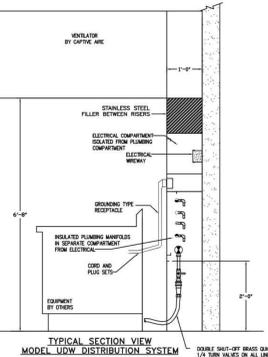
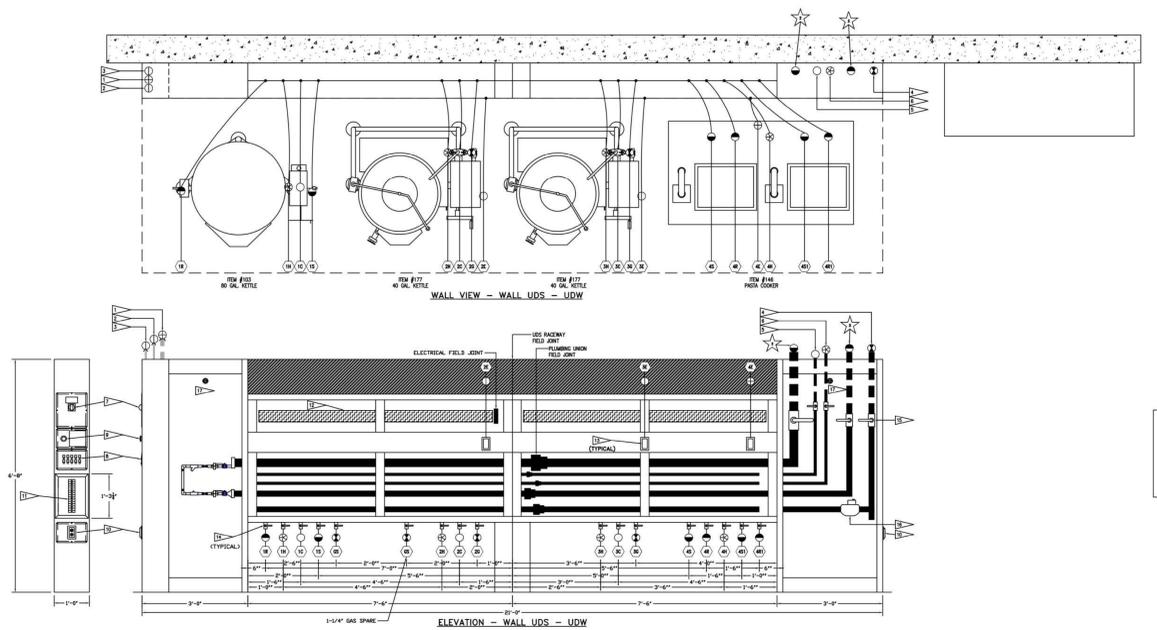
UDS CONSTRUCTION TO BE 16 GA., TYPE 304 STAINLESS STEEL
 UTILITY DISTRIBUTION SYSTEM MODEL UDI IS LISTED UNDER ETL FILE NUMBER 3054803 CONFORMS TO UL STD 851 CERTIFIED TO CAN/CSA C22.2 No. 31-M89
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---NOTE---
 NEC REQUIRES 36" OF FIELD CLEARANCE IN FRONT OF CIRCUIT BREAKERS FOR ACCESS

SYMBOL SCHEDULE	
○	OLD WIRE
●	NEW WIRE
○	REMOVE WIRE
○	NATURAL GAS
①	UDS VAC 1 PHASE
②	UDS VAC 2 PHASE
③	UDS VAC 3 PHASE
○	STEAM SUPPLY
○	STEAM CONDENSATE RETURN

- STANDARD FLAG NOTES
- ⚡ ELECTRICAL SERVICE FROM ABOVE, SEE SCHEDULE FOR DETAILS PROVIDED BY ELECTRICAL CONTRACTOR
 - ⚡ SERV/COND/RET ELECTRICAL CIRCUIT INTO UDS TERMINALS 1/2" NPT FOR FUEL/START CONTROL PROVIDED BY ELECTRICAL CONTRACTOR SEE SCHEMATIC BELOW
 - ⚡ 3-PHASE ELECTRICAL CIRCUIT FROM HOOD CONTROL PACKAGE TERMINALS 1/2" NPT TO UDS LINE TERMINALS "SAC" ET AL. 1/2" FOR USE SHUT DOWN BY A FIRE CONDITION PROVIDED BY ELECTRICAL CONTRACTOR SEE SCHEMATIC BELOW
 - ⚡ GAS SERVICE FROM ABOVE, SEE SCHEDULE FOR SERVICE SIZE AND STYLE PROVIDED BY PLUMBING CONTRACTOR
 - ⚡ COLD WATER SERVICE FROM ABOVE, SEE SCHEDULE FOR SERVICE SIZE PROVIDED BY PLUMBING CONTRACTOR
 - ⚡ HOT WATER SERVICE FROM ABOVE, SEE SCHEDULE FOR SERVICE SIZE PROVIDED BY PLUMBING CONTRACTOR
 - ⚡ SERVICE MAIN BREAKER W/SHUNT TRIP AND RESET HANDLE, SEE SCHEDULE FOR DETAILS
 - ⚡ STATUS INDICATOR LIGHTS
 - ⚡ EMERGENCY KILL SWITCH
 - ⚡ 800 RECEPTACLE W/ BREAKER & WEATHERPROOF COVER
 - ⚡ ELECTRICAL LOAD CENTER WITH INDIVIDUAL CIRCUIT BREAKERS
 - ⚡ ELECTRICAL WIRING TO APPLIANCES
 - ⚡ ELECTRICAL CONNECTION W/ WEATHERPROOF COVER AS SPECIFIED ON THE EQUIPMENT SCHEDULE, SEE THIS SHEET.
 - ⚡ PLUMBING CONNECTION AS SPECIFIED IN THE EQUIPMENT SCHEDULE, SEE THIS SHEET.
 - ⚡ MANUAL SHUT OFF VALVE
 - ⚡ LOW VOLT ELECTRICAL GSE VALVE
 - ⚡ REMOVABLE ACCESS DOORS

UTILITY DISTRIBUTION SYSTEM EQUIPMENT SCHEDULE																
CONN#	ITEM	EQUIPMENT	MANUFACTURER	MODEL#	KW	AMPS	HP	VOLT	PH	AMPS	POLES	PART #	SIZE	NOTES		
15	303	80 GAL KETTLE	GROEN	DL-80	-	-	-	-	-	-	-	-	3/4"	QUICK DISCONNECT 5'		
18	303	80 GAL KETTLE	GROEN	DL-80	-	-	-	-	-	-	-	-	3/4"	QUICK DISCONNECT 5'		
1C	303	80 GAL KETTLE	GROEN	DL-80	-	-	-	-	-	-	-	-	1/2"	QUICK DISCONNECT 5'		
3H	303	80 GAL KETTLE	GROEN	DL-80	-	-	-	-	-	-	-	-	1/2"	QUICK DISCONNECT 5'		
2E	377	40 GAL KETTLE	CLEVELAND	KGL-40-T	1.2	10.0	-	120	1	20	1	DR20	-	SUPPLIED - GFI BREAKER		
2G	377	40 GAL KETTLE	CLEVELAND	KGL-40-T	-	-	-	-	-	-	-	3/4"	140	QUICK DISCONNECT 5'		
2C	377	40 GAL KETTLE	CLEVELAND	KGL-40-T	-	-	-	-	-	-	-	-	1/2"	QUICK DISCONNECT 5'		
2H	377	40 GAL KETTLE	CLEVELAND	KGL-40-T	-	-	-	-	-	-	-	-	1/2"	QUICK DISCONNECT 5'		
3E	377	40 GAL KETTLE	CLEVELAND	KGL-40-T	1.2	10.0	-	120	1	20	1	DR20	-	SUPPLIED - GFI BREAKER		
3G	377	40 GAL KETTLE	CLEVELAND	KGL-40-T	-	-	-	-	-	-	-	3/4"	140	QUICK DISCONNECT 5'		
3C	377	40 GAL KETTLE	CLEVELAND	KGL-40-T	-	-	-	-	-	-	-	-	1/2"	QUICK DISCONNECT 5'		
3H	377	40 GAL KETTLE	CLEVELAND	KGL-40-T	-	-	-	-	-	-	-	-	1/2"	QUICK DISCONNECT 5'		
4E	346	PASTA COOKER	NEMA	DOUGH-D-MAT CAB2	1.5	4.2	-	208	3	15	3	L15-208	-	CORD & PLUG 6' GFI BREAKER		
4S	346	PASTA COOKER	NEMA	DOUGH-D-MAT CAB2	-	-	-	-	-	-	-	-	3/4"	QUICK DISCONNECT 5'		
4H	346	PASTA COOKER	NEMA	DOUGH-D-MAT CAB2	-	-	-	-	-	-	-	-	1/2"	QUICK DISCONNECT 5'		
4R	346	PASTA COOKER	NEMA	DOUGH-D-MAT CAB2	-	-	-	-	-	-	-	-	3/4"	QUICK DISCONNECT 5'		
4H	346	PASTA COOKER	NEMA	DOUGH-D-MAT CAB2	-	-	-	-	-	-	-	-	1/2"	QUICK DISCONNECT 5'		
D1	-	DUPLEX OUTLET	-	-	-	-	-	120	1	20	1	DR20	-	FACTORY - GFI BREAKER		
D2	-	DUPLEX OUTLET	-	-	-	-	-	120	1	20	1	DR20	-	FACTORY - GFI BREAKER		
TOTAL CONNECTED LOAD:					3.9	KW	10.9	AMPS	0.0	KW	0.0	AMPS	280	MBH	H.W.	STEAM SUPPLY
FUTURE AVAILABLE LOAD CAPACITY:					10.5	KW	29.1	AMPS	0.0	KW	0.0	AMPS	270	MBH	1"	3"
SYSTEM CAPACITY:					14.4	KW	40.0	AMPS	0.0	KW	0.0	AMPS	550	MBH	C.W.	COND. RETURN
SERVICE SIZE:					120/208 V/3 PH/50 AMP			V/PH/50 AMP				1-1/2" IPS SINGLE		1"		



THESE DETAILS ARE PROVIDED FOR DIAGRAMMATIC PURPOSES ONLY. REFER TO THE MANUFACTURES SHOP DRAWINGS, DETAILS AND INSTALLATION INSTRUCTIONS FOR FINAL REQUIREMENTS.

REVISIONS	
DESCRIPTION	DATE

CAPTIVE
 North Jersey Mechanical
 www.captive.com
 Summit, NJ, PHONE: (201) 306-9647 FAX: (973) 516-8752 EMAIL: nji138@captive.com

Lorenzo Foods
 TETERBORO, NJ, 07608

DATE: 7/6/2021
 DWG.#: 4967555
 DRAWN BY: ZDK
 SCALE: 1/2" = 1'-0"
 MASTER DRAWING
 SHEET NO. 1

GENERAL NOTES:
 THIS DRAWING AND THE DESIGN DECISIONS HEREIN SHALL BE THE SOLE PROPERTY OF CAPTIVE MECHANICAL CONTRACTORS OR MANUFACTURERS. THIS DRAWING IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. CAPTIVE MECHANICAL CONTRACTORS OR MANUFACTURERS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS, AND INSURANCE. CAPTIVE MECHANICAL CONTRACTORS OR MANUFACTURERS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS, AND INSURANCE. CAPTIVE MECHANICAL CONTRACTORS OR MANUFACTURERS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS, AND INSURANCE. CAPTIVE MECHANICAL CONTRACTORS OR MANUFACTURERS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS, AND INSURANCE.

05/06/22 ISSUED FOR CLIENT REVIEW
 Date Description #

CYBUL CYBUL WILHELM ARCHITECTS
 1064 River Rd.
 Edgewater, NJ 07020

KOESTNER ASSOCIATES
 P.O. BOX 514
 Hackensack, NJ 07602

ALLIED ENGINEERING
 730 River Road
 New Milford, NJ 07646

BD ENGINEERING, LLC.
 30 Park Road, Suite 4
 Tinton Falls, NJ 07724

lorenzo food group
 Lorenzo Foods Teterboro
 25 CENTRAL AVE
 TETERBORO, NJ, 07608

ISSUED FOR: []
 REVIEW: []
 PLANNING BOARD: []
 BUILDING DEPT: []
 CONSTRUCTION: []

BRIAN D. TANNENHAUS
 NJ PROFESSIONAL ENGINEER
 NO. GE 45801
 DATE: 02/24/2022

HVAC CAPTIVE AIRE DETAILS	
scale:	1/2" = 1'-0"
release date:	05/06/22
drawing date:	09/24/2021
drawn by:	ZW
approved by:	KF
project no.:	2102
drawing no.:	M-507.00
DOB BARCODE:	
Total	

IMPORTANT SPECIAL UDS PARTS/NOTES

TWO (2) OPTIPURE QTI+CR WATER FILTERS WITH WINDOW.

UDS CONSTRUCTION TO BE 16 GA., TYPE 304 STAINLESS STEEL

UTILITY DISTRIBUTION SYSTEM MODEL UDI IS LISTED UNDER ETL FILE NUMBER 3054803 CONFORMS TO UL STD 891 CERTIFIED TO CAN/CSA C22.2 No. 31-M89

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ANY CHANGES TO SUBMITTAL DRAWING MAY AFFECT PRICE AND PRODUCTION TIME - PLEASE FORWARD CHANGES ASAP

NOTE: NEC REQUIRES 36" OF FIELD CLEARANCE IN FRONT OF CIRCUIT BREAKERS FOR ACCESS

SYMBOL SCHEDULE

- 1/2" NPT WIRE
- 3/4" NPT WIRE
- 1" NPT WIRE
- 1 1/2" NPT WIRE
- 2" NPT WIRE
- 2 1/2" NPT WIRE
- 3" NPT WIRE
- 4" NPT WIRE
- 6" NPT WIRE
- 8" NPT WIRE
- 10" NPT WIRE
- 12" NPT WIRE
- 14" NPT WIRE
- 16" NPT WIRE
- 18" NPT WIRE
- 20" NPT WIRE
- 24" NPT WIRE
- 30" NPT WIRE
- 36" NPT WIRE
- 42" NPT WIRE
- 48" NPT WIRE
- 60" NPT WIRE
- 72" NPT WIRE
- 84" NPT WIRE
- 96" NPT WIRE
- 108" NPT WIRE
- 120" NPT WIRE
- 144" NPT WIRE
- 168" NPT WIRE
- 192" NPT WIRE
- 216" NPT WIRE
- 240" NPT WIRE
- 264" NPT WIRE
- 288" NPT WIRE
- 312" NPT WIRE
- 336" NPT WIRE
- 360" NPT WIRE
- 384" NPT WIRE
- 408" NPT WIRE
- 432" NPT WIRE
- 456" NPT WIRE
- 480" NPT WIRE
- 504" NPT WIRE
- 528" NPT WIRE
- 552" NPT WIRE
- 576" NPT WIRE
- 600" NPT WIRE
- 624" NPT WIRE
- 648" NPT WIRE
- 672" NPT WIRE
- 696" NPT WIRE
- 720" NPT WIRE
- 744" NPT WIRE
- 768" NPT WIRE
- 792" NPT WIRE
- 816" NPT WIRE
- 840" NPT WIRE
- 864" NPT WIRE
- 888" NPT WIRE
- 912" NPT WIRE
- 936" NPT WIRE
- 960" NPT WIRE
- 984" NPT WIRE
- 1008" NPT WIRE
- 1032" NPT WIRE
- 1056" NPT WIRE
- 1080" NPT WIRE
- 1104" NPT WIRE
- 1128" NPT WIRE
- 1152" NPT WIRE
- 1176" NPT WIRE
- 1200" NPT WIRE
- 1224" NPT WIRE
- 1248" NPT WIRE
- 1272" NPT WIRE
- 1296" NPT WIRE
- 1320" NPT WIRE
- 1344" NPT WIRE
- 1368" NPT WIRE
- 1392" NPT WIRE
- 1416" NPT WIRE
- 1440" NPT WIRE
- 1464" NPT WIRE
- 1488" NPT WIRE
- 1512" NPT WIRE
- 1536" NPT WIRE
- 1560" NPT WIRE
- 1584" NPT WIRE
- 1608" NPT WIRE
- 1632" NPT WIRE
- 1656" NPT WIRE
- 1680" NPT WIRE
- 1704" NPT WIRE
- 1728" NPT WIRE
- 1752" NPT WIRE
- 1776" NPT WIRE
- 1800" NPT WIRE
- 1824" NPT WIRE
- 1848" NPT WIRE
- 1872" NPT WIRE
- 1896" NPT WIRE
- 1920" NPT WIRE
- 1944" NPT WIRE
- 1968" NPT WIRE
- 1992" NPT WIRE
- 2016" NPT WIRE
- 2040" NPT WIRE
- 2064" NPT WIRE
- 2088" NPT WIRE
- 2112" NPT WIRE
- 2136" NPT WIRE
- 2160" NPT WIRE
- 2184" NPT WIRE
- 2208" NPT WIRE
- 2232" NPT WIRE
- 2256" NPT WIRE
- 2280" NPT WIRE
- 2304" NPT WIRE
- 2328" NPT WIRE
- 2352" NPT WIRE
- 2376" NPT WIRE
- 2400" NPT WIRE
- 2424" NPT WIRE
- 2448" NPT WIRE
- 2472" NPT WIRE
- 2496" NPT WIRE
- 2520" NPT WIRE
- 2544" NPT WIRE
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