CORE APPLIANCE PIPING WATER FLOW SUMMARY			
	PIPE DIAMETER	MINIMUM FLOW RATE (GPM)	PRESSURE DROP (PSI)
FIELD PIPING/DUCT RUN BETWEEN ALL HOOD GROUPS	2	50.9	10.00
HOOD/DUCT RUN INTERNAL PIPING	0.75	23.7	45

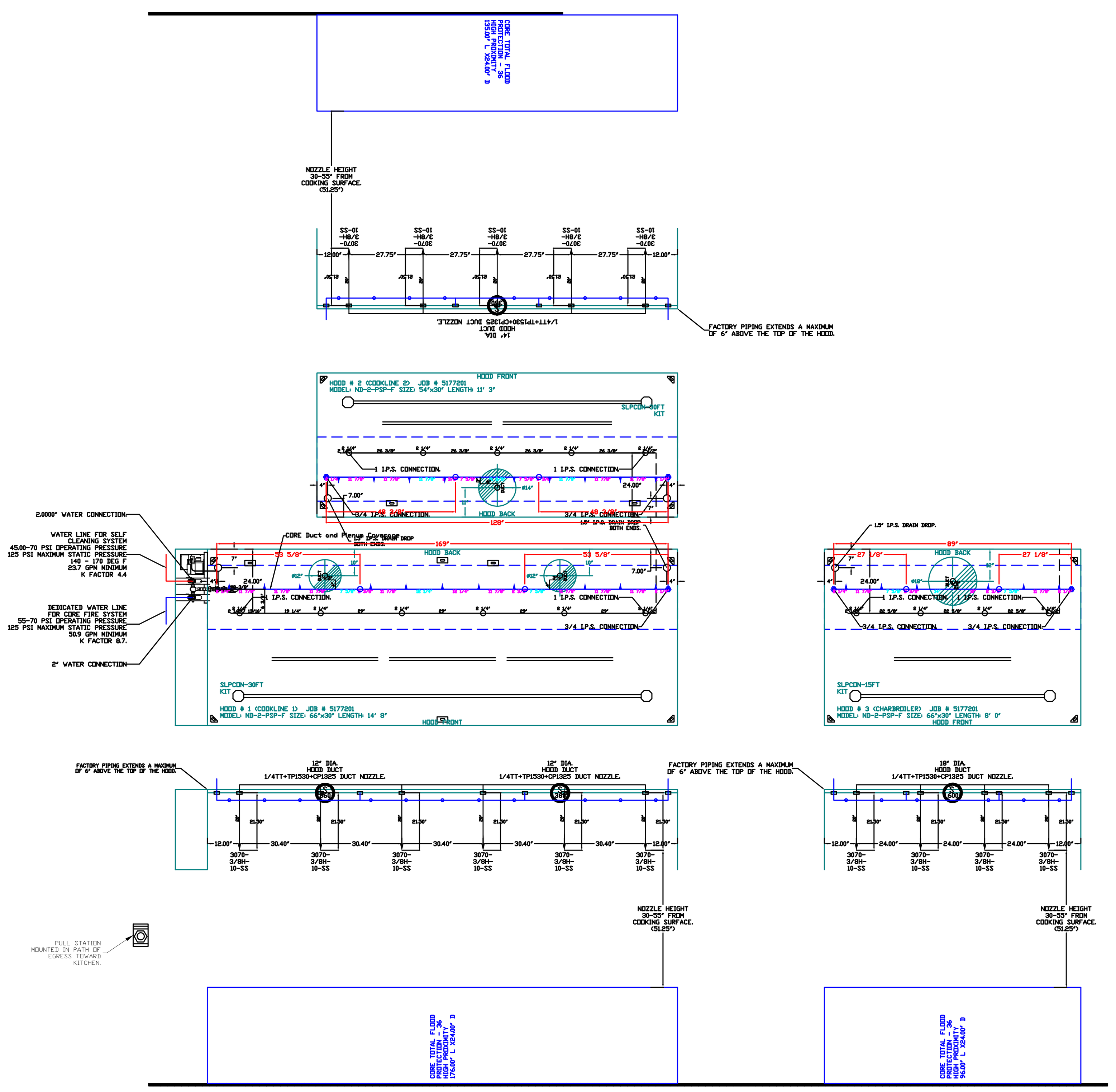
SELF CLEANING WATER FLOW SUMMARY			
	PIPE DIAMETER	MINIMUM FLOW RATE (GPM)	PRESSURE DROP (PSI)
FIELD PIPING/DUCT RUN BETWEEN ALL HOOD GROUPS	2.0000	23.7	10.0000
HOOD/DUCT RUN INTERNAL PIPING	0.75	23.7	35

TOTAL SYSTEM INLET REQUIREMENTS			WATER HEATER INSTANTANEOUS DEMAND (MBH)
	MINIMUM FLOW RATE (GPM)	MINIMUM PRESSURE (PSI)	
TOTAL CORE INLET REQUIREMENTS	50.9	55	1025
TOTAL SELF-CLEANING INLET REQUIREMENTS	23.7	45.00	

* OPERATING PRESSURE RANGE AT CORE PANEL GAUGE IS 55 TO 70 PSI.
MAXIMUM STATIC PRESSURE IS 125 PSI.

* OPERATING PRESSURE RANGE AT Self Cleaning PANEL GAUGE IS 45.00 TO 70 PSI.
MAXIMUM STATIC PRESSURE IS 125 PSI.

* HOT WATER TEMPERATURE RANGE FOR SELF CLEANING 140-170°F.



NOTES
- FIELD PIPE DROPS AS SHOWN
  ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

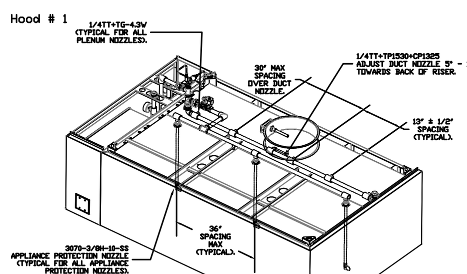
- CORE / SELF CLEANING (UNITED STATES) - US PATENT 7963282 B2.
  CORE / SELF CLEANING (EUROPE) - EP PATENT 2274069 A1.
  CORE SUPERVISION - US PATENT 8378834 B1.
  CORE ELECTRICAL - US PATENT 8610601 B2.

JOB #: 5177201.
JOB NAME: SIERRA GRILL - LENEXA, KS.

SYSTEM SIZE: CORE
HOOD # 1 14' 8.00" LONG x 66" WIDE x 30" HIGH.
RISER # 1 SIZE: 12" DIA.
RISER # 2 SIZE: 12" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.
HOOD # 2 11' 3.00" LONG x 54" WIDE x 30" HIGH.
RISER # 1 SIZE: 14" DIA.
HOOD # 2 METAL BLOW-OFF CAPS INCLUDED.
HOOD # 3 8' 0.00" LONG x 66" WIDE x 30" HIGH.
RISER # 1 SIZE: 18" DIA.
HOOD # 3 METAL BLOW-OFF CAPS INCLUDED.

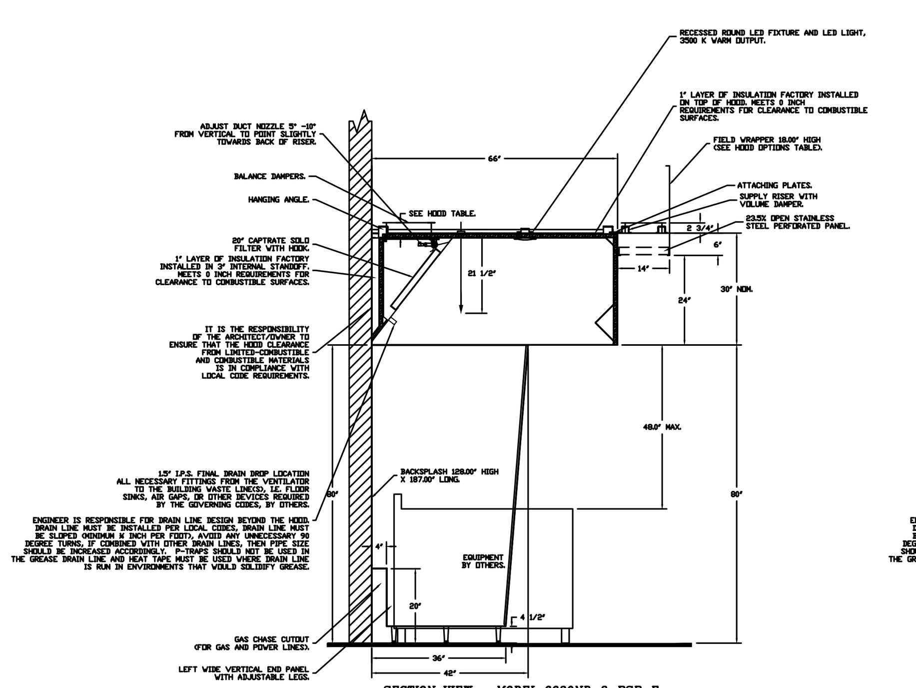
- SOLID-FUEL APPLIANCES (EXTRA HEAVY-DUTY RATED 700°F) REQUIRE AN ADDITIONAL FIRESTAT AT END OF THE EXHAUST DUCT NEAR EXHAUST FAN IF THE DUCT IS MORE THAN 10 FT LONG OR CONTAINS ANY HORIZONTAL SECTIONS.
- SOLID-FUEL APPLICATIONS WHERE THE DUCTWORK EXCEEDS 50 FT IN LENGTH WILL REQUIRE A THIRD FIRESTAT, MOUNTED IN A SERVICEABLE LOCATION, IDEALLY AT THE END OF A HORIZONTAL RUN OR TRANSITION. CONSULT ENGINEERING ON DUCT LENGTHS OVER 100 FT.
- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

Hood # 1



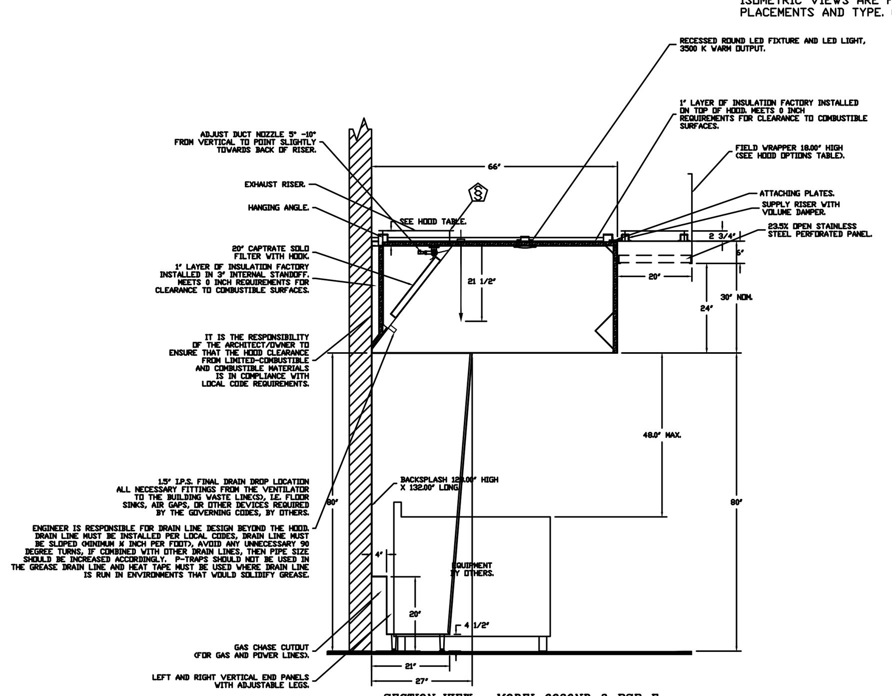
NOZZLES FOR CORE PROTECTION		
DESCRIPTION	PART NUMBER	A/X
RISER NOZZLE	1/4TT+TP1530+CP1325	A0002784
SPRAY BAR NOZZLE	1/4TT+TG-4.3W	A0025166
APPLIANCE NOZZLE	3070-3/8H-10-SS	A0019145

ISOMETRIC VIEWS ARE FOR GRAPHICAL REPRESENTATION OF TYPICAL NOZZLE PLACEMENTS AND TYPE. QUANTITIES OF NOZZLES WILL VARY.



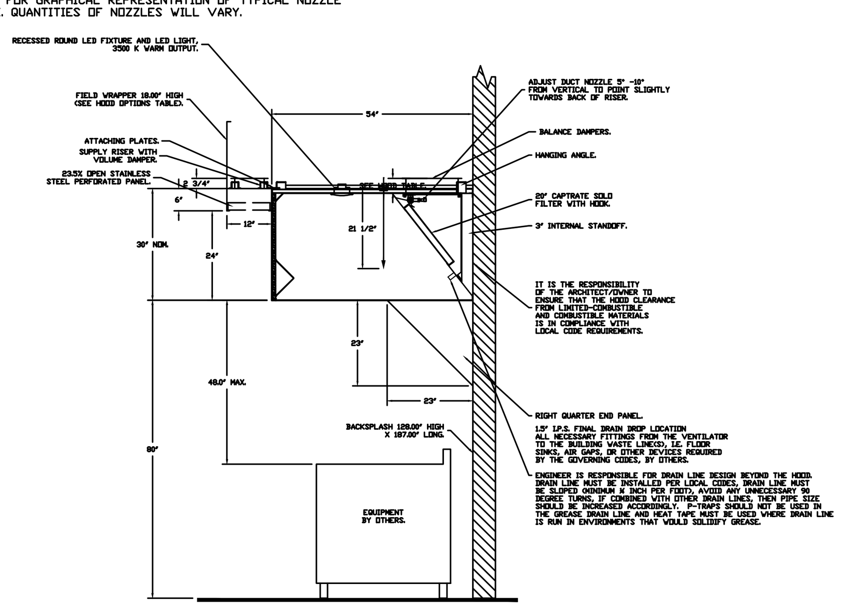
SECTION VIEW - MODEL 6630ND-2-PSP-F
HOOD - #1

DUCT NOZZLE AND
PLENUM SPRAY BAR LOCATION



SECTION VIEW - MODEL 6630ND-2-PSP-F
HOOD - #3

DUCT NOZZLE AND
PLENUM SPRAY BAR LOCATION



SECTION VIEW - MODEL 5430ND-2-PSP-F
HOOD - #2

DUCT NOZZLE AND
PLENUM SPRAY BAR LOCATION