

FOR QUESTIONS, CALL THE
Seattle Mechanical
REGION 116
PHONE: (206) 895 – 2116
EMAIL: reg116@captiveaire.com

DUCTWORK #1 PARTS – JOB#7310318 DOUBLE WALL H–03

TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
Hood Riser	DW20DWRISER–3Z–S	1989				–0.945	9.60	0.00	1	DOUBLE WALL RISER COVER – USED ON 14" INNER RISER, 4" LONG – 3 LAYERS ZERO CLEARANCE – 20" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
Hood Riser	DW20DWRISER–3Z–S	1989				–0.945	9.60	0.00	1	DOUBLE WALL RISER COVER – USED ON 14" INNER RISER, 4" LONG – 3 LAYERS ZERO CLEARANCE – 20" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
P1	DW1407DWLT–3Z–S	1989				–0.004	11.08	1860.59	1	DOUBLE WALL DUCT – 14" INNER DUCT, 7" LONG – 3 LAYERS ZERO CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
P2	DW1420DWRNDADP3ASY21–3Z–S	1989				–0.119	52.03	1860.59	1	DOUBLE WALL DUCT – 14" X 20" RND2RND ADAPTER – 21" TALL – 3 LAYERS ZERO CLEARANCE – 20" X 26" STAINLESS STEEL OUTER SHELL. STANDARD ADAPTER.
P3	DW2090DWASY–3Z–S	1989				–0.0351	66.28	911.69	1	DOUBLE WALL DUCT – 20" INNER 90 DUCT – 3 LAYERS ZERO CLEARANCE – 26" STAINLESS STEEL OUTER SHELL.
P4	DW20DWTEASY–3Z–S	3978		1		–0.3664	78.37	1823.38	1	DOUBLE WALL DUCT – 20" INNER TEE DUCT – 3 LAYERS ZERO CLEARANCE – 26" STAINLESS STEEL OUTER SHELL.
P5	DW1420DWRNDADPEC3ASY21–3Z–S	1989				–0.119	52.03	1860.59	1	DOUBLE WALL DUCT ECCENTRIC – 14" X 20" RND2RND ADAPTER – 21" TALL – 3 LAYERS ZERO CLEARANCE – 20" X 26" STAINLESS STEEL OUTER SHELL. STANDARD ADAPTER.
P6	DW1427DWAJD–3Z–S	1989				–0.007	60.65	1860.59	1	DOUBLE WALL ADJUSTABLE DUCT – 14" INNER DUCT – 3 LAYERS ZERO CLEARANCE – 20" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 24.5" / ADJUSTMENT = 13.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P7 ASSEMBLED W/P10	DW14DWTEASY–3Z–S	1989		1		–0.1287	48.60	1860.59	1	DOUBLE WALL DUCT – 14" INNER TEE DUCT – 3 LAYERS ZERO CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
P8	DW1417DWLT–3Z–S	1989				–0.009	27.43	1860.59	1	DOUBLE WALL DUCT – 14" INNER DUCT, 17" LONG – 3 LAYERS ZERO CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
P9	DW1411DWLT–3Z–S	1989				–0.006	17.55	1860.59	1	DOUBLE WALL DUCT – 14" INNER DUCT, 11" LONG – 3 LAYERS ZERO CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
P10 ASSEMBLED W/P7 O=S	DW14DWACCDOORCOV–3Z–S						21.24		1	DOUBLE WALL DUCT – 14" INNER ACCESS DOOR & 20" ACCESS DOOR COVER WITH CLAMPS – 3 LAYERS ZERO CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
P11	DW2017DWLT–3Z–S	3978				–0.004	36.70	1823.38	1	DOUBLE WALL DUCT – 20" INNER DUCT, 17" LONG – 3 LAYERS ZERO CLEARANCE – 26" STAINLESS STEEL OUTER SHELL.
P12	DW2630SADKIT						10.46		1	DUCT – HORIZONTAL SADDLE SUPPORT KIT, USED WITH 26" OD – INCLUDES UNI–STRUT CUT TO LENGTH, DW2630SAD, & HARDWARE BAG 4.
P13	DW2090DWASY–3Z–S	3978				–0.3832	66.28	1823.38	1	DOUBLE WALL DUCT – 20" INNER 90 DUCT – 3 LAYERS ZERO CLEARANCE – 26" STAINLESS STEEL OUTER SHELL.
P14	DW2047DWAJD–3Z–S	3978				–0.008	144.57	1823.38	1	DOUBLE WALL ADJUSTABLE DUCT – 20" INNER DUCT – 3 LAYERS ZERO CLEARANCE – 26" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P15 ASSEMBLED W/P16	DW20DWTEASY–3Z–S	3978		1		–0.008	78.37	1823.38	1	DOUBLE WALL DUCT – 20" INNER TEE DUCT – 3 LAYERS ZERO CLEARANCE – 26" STAINLESS STEEL OUTER SHELL.
P16 ASSEMBLED W/P15 O=T	DW20DWACCDOORCOV–3Z–S						32.56		1	DOUBLE WALL DUCT – 20" INNER ACCESS DOOR & 26" ACCESS DOOR COVER WITH CLAMPS – 3 LAYERS ZERO CLEARANCE – 26" STAINLESS STEEL OUTER SHELL.
P17	DW2045DWASY–3Z–S	3978				–0.0727	37.66	1823.38	1	DOUBLE WALL DUCT – 20" INNER 45 DUCT – 3 LAYERS ZERO CLEARANCE – 26" STAINLESS STEEL OUTER SHELL.
P18	DW2023DWLT–3Z–S	3978				–0.006	50.30	1823.38	1	DOUBLE WALL DUCT – 20" INNER DUCT, 23" LONG – 3 LAYERS ZERO CLEARANCE – 26" STAINLESS STEEL OUTER SHELL.
P19	DW2630SADKIT						10.46		1	DUCT – HORIZONTAL SADDLE SUPPORT KIT, USED WITH 26" OD – INCLUDES UNI–STRUT CUT TO LENGTH, DW2630SAD, & HARDWARE BAG 4.
P20	DW2045DWASY–3Z–S	3978				–0.0775	37.66	1823.38	1	DOUBLE WALL DUCT – 20" INNER 45 DUCT – 3 LAYERS ZERO CLEARANCE – 26" STAINLESS STEEL OUTER SHELL.
P21	DW2035DWLT–3Z–S	3978				–0.009	77.15	1823.38	1	DOUBLE WALL DUCT – 20" INNER DUCT, 35" LONG – 3 LAYERS ZERO CLEARANCE – 26" STAINLESS STEEL OUTER SHELL.
P22	DW2047DWAJD–3Z–S	3978				–0.006	144.57	1823.38	1	DOUBLE WALL ADJUSTABLE DUCT – 20" INNER DUCT – 3 LAYERS ZERO CLEARANCE – 26" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P23	DW2035DWLT–3Z–S	3978				–0.009	77.15	1823.38	1	DOUBLE WALL DUCT – 20" INNER DUCT, 35" LONG – 3 LAYERS ZERO CLEARANCE – 26" STAINLESS STEEL OUTER SHELL.
P24 ASSEMBLED W/P25	DW202150DWLTTP–3Z–S	3978				–0.006	47.80	1823.38	1	DOUBLE WALL DUCT – 20" INNER DUCT, 21.5" LONG – 3 LAYERS ZERO CLEARANCE – 26" STAINLESS STEEL OUTER SHELL – USED WITH TRANSITION PLATE.
P25 ASSEMBLED W/P24 O=B,P26	DW3120TPDB	3978					21.88	1823.38	1	DUCT TO CURB TRANSITION DOWN TURN, 31–1/2" CURB TO 20" DUCT, 16 GA ALUMINIZED. NON–STANDARD PART. NOT FOR USE WITH EXHAUST FANS.
P26 ASSEMBLED W/P25	DW20RISER	3978				–0.001	3.21	1823.38	1	SINGLE WALL DUCT RISER FOR WELDED HOODS, 20" DIA DUCT. STAINLESS STEEL.
P27	DW2011LT	3978				–0.0029	7.77	1823.38	1	SINGLE WALL DUCT 20" DIAMETER, 11" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P28 ASSEMBLED W/P29	DW2024AJDKIT	3978				–0.0031	20.76	1823.38	1	SINGLE WALL DUCT ADJUSTABLE, 20" DIAMETER, 23.5" LONG, FLANGE AT ONE END WITH A 20" ADJUSTABLE COLLAR – STAINLESS STEEL.
P29 ASSEMBLED W/P28 O=B	DW2620TPDBEX	3978					9.00	1823.38	1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 26 1/2" CURB TO 20" DUCT, 16 GA ALUMINIZED. USED ON NCA16FA / NCA16HPFA & NCA18FA / NCA18HPFA. TRANSITION PLATE OD IS 27.00" DESIGNED FOR USE WITH EXHAUST FAN.
SYSTEM AT P29						–2.1775	0.00			
RC1	DW20DWRISER–3Z–S						9.60		1	DOUBLE WALL RISER COVER – USED ON 14" INNER RISER, 4" LONG – 3 LAYERS ZERO CLEARANCE – 20" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
RC2	DW20DWRISER–3Z–S						9.60		1	DOUBLE WALL RISER COVER – USED ON 14" INNER RISER, 4" LONG – 3 LAYERS ZERO CLEARANCE – 20" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
	3M–2000PLUS						0.80		8	DUCT – 3M FIRE BARRIER 2000 PLUS SILICONE – USED AS SEALANT TO SEAL DUCT JOINTS.
	DW14DWCLASY–3Z–S						6.54		3	DUCT – 14" DUCT – 20" DOUBLE "V" CLAMP – 3Z INSULATION & SINGLE "V" CLAMP INCLUDED – ZERO CLEARANCE.
	DW20CLASY						1.41		2	DUCT "V" CLAMP WITH NEW DESIGN 14 GA BRACKETS, 20" DUCT, ASSEMBLY.
	DW20DWCLASY–3Z–S						8.50		10	DUCT – 20" DUCT – 26" DOUBLE "V" CLAMP – 3Z INSULATION & SINGLE "V" CLAMP INCLUDED – ZERO CLEARANCE.
TOTAL WEIGHT							1501.81			

Separate permits are required for fire suppression systems at Hood/duct.

Must be reviewed and approved by the engineer of record.

City of Puyallup
Reviewed for
Compliance

03/06/2025
12:11:28 PM



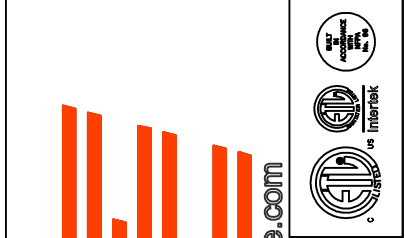
Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.
PRINT in COLOR and to SCALE.

APPROVED BY: Jim Still

Date Approved: 020525

REVISIONS	
DESCRIPTION	DATE:
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CAPTIVE AIR

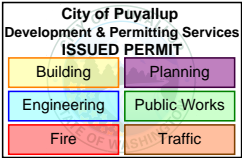
Seattle Mechanical

10202 5th Ave NE, Suite 200, Seattle, WA, 98125 PHONE: (206) 895 - 2116 EMAIL: reg116@captiveaire.com

International Village – Duct – H 3,4,5,6,7
PUYALLUP, WA, 98371

DATE: 2/5/2025
DWG. NO. 7310318
DRAWN BY:
SCALE: 3/4" = 1'–0"
MASTER DRAWING

SHEET NO.
1



SINGLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

DUCT DIAMETER	HORIZONTAL SUPPORT (FT)	VERTICAL WALL SUPPORT (FT)	VERTICAL CURB SUPPORT (FT)
5"	10'	10'	24'
6"	10'	10'	24'
7"	10'	10'	24'
8"	10'	10'	24'
10"	10'	10'	24'
12"	10'	10'	24'
14"	10'	10'	24'
16"	10'	10'	24'
18"	10'	10'	24'
20"	10'	10'	24'
22"	10'	10'	24'
24"	10'	10'	24'
26"	10'	10'	24'
28"	10'	10'	24'
30"	10'	10'	24'
32"	10'	10'	24'
34"	10'	10'	24'
36"	10'	10'	24'

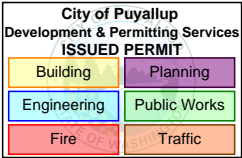
DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

HORIZONTAL	
DUCT DIAMETER	SUPPORT SPACING (FT)
5"	7'
6"	7'
7"	7'
8"	7'
10"	7'
12"	7'
14"	7'
16"	7'
18"	5'
20"	5'
22"	5'
24"	5'
26"	5'
28"	5'
30"	5'
32"	5'
34"	5'
36"	5'

VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5"–16")	20'	24'	24'
2R (18")	18'	24'	24'
3R & 3Z (5"–24")	10'	24'	24'
3Z (26" –36")	10'	20'	20'

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.



REVISIONS

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International Village – Duct – H 3,4,5,6,7
PUYALLUP, WA, 98371

DATE: 2/5/2025

DWG. NO:
7310318

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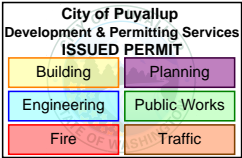
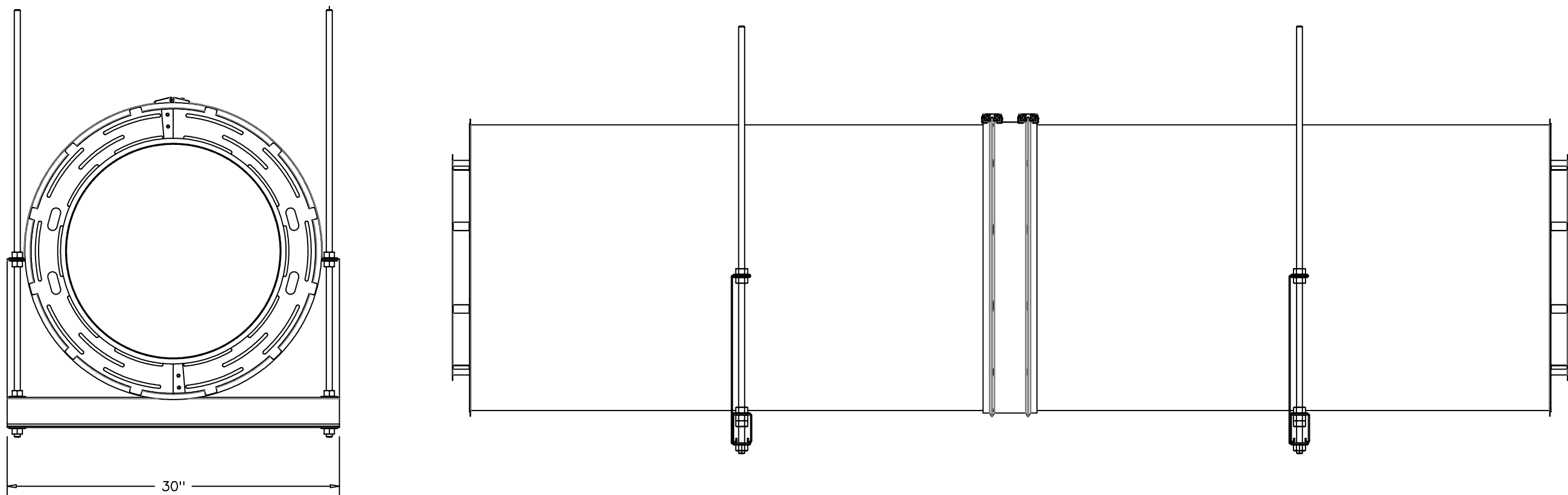
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2

SUPPORT SYSTEM DETAILS #1

DW2630SADKIT – HORIZONTAL SUPPORTS



International Village – Duct – H 3,4,5,6,7
PUYALLUP, WA, 98371

DATE: 2/5/2025

DWG. NO.
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SCALE:
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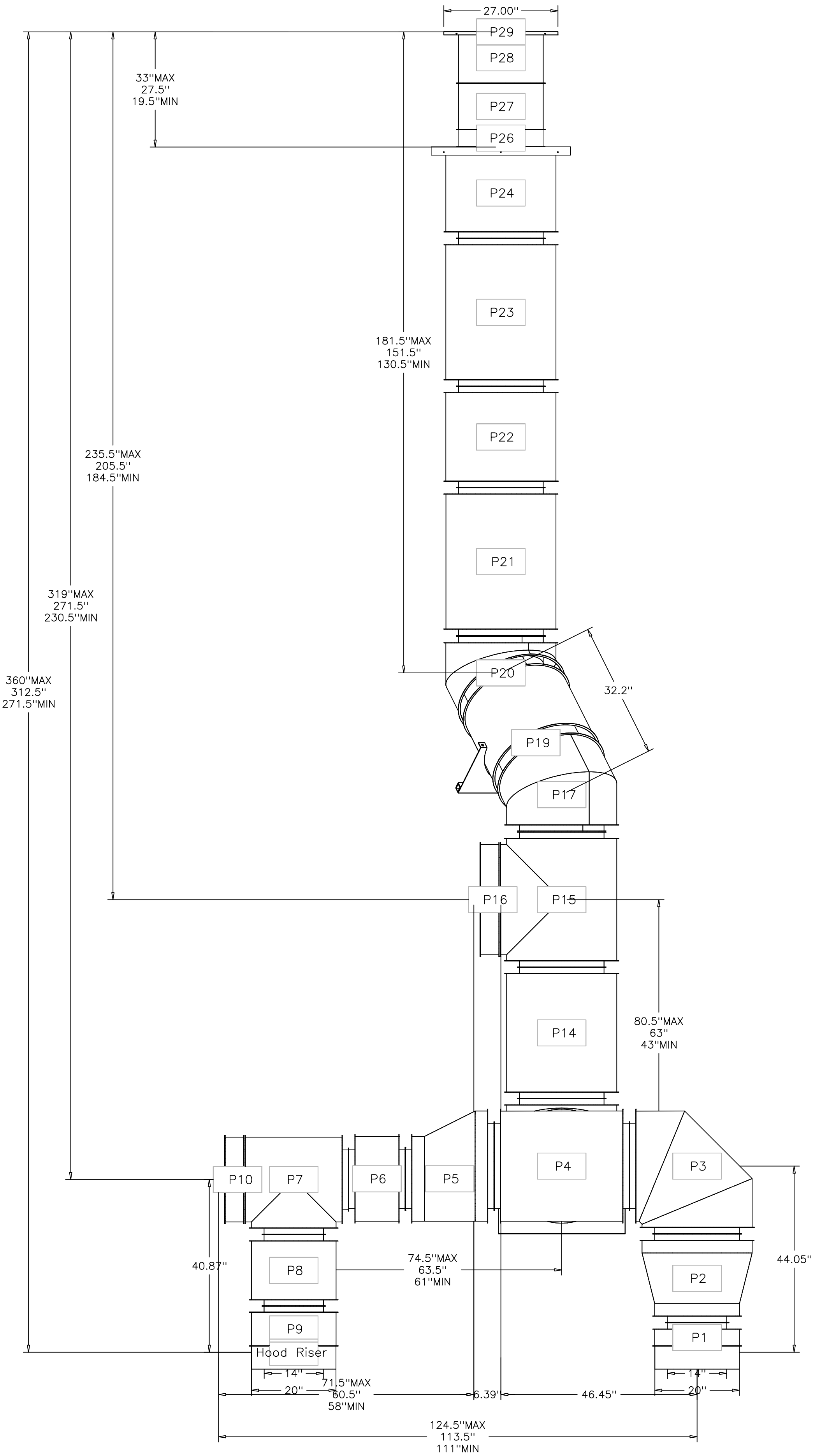
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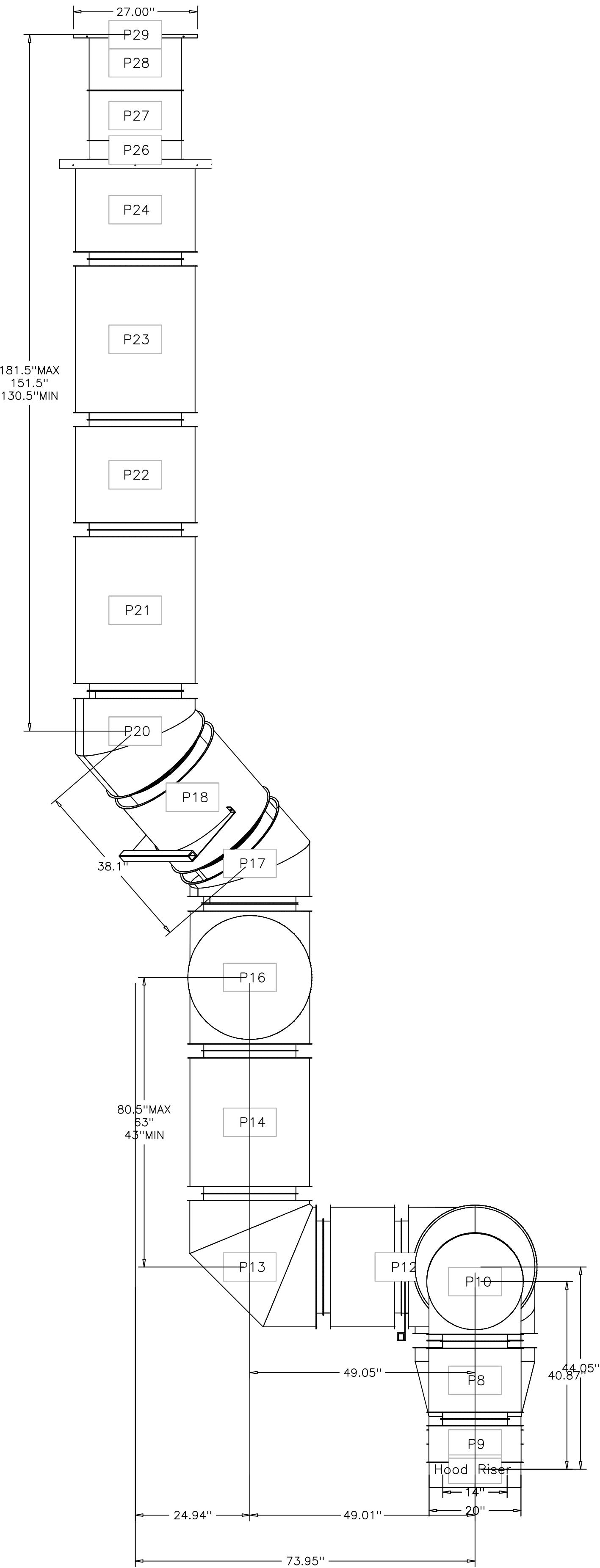
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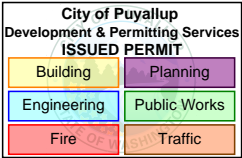
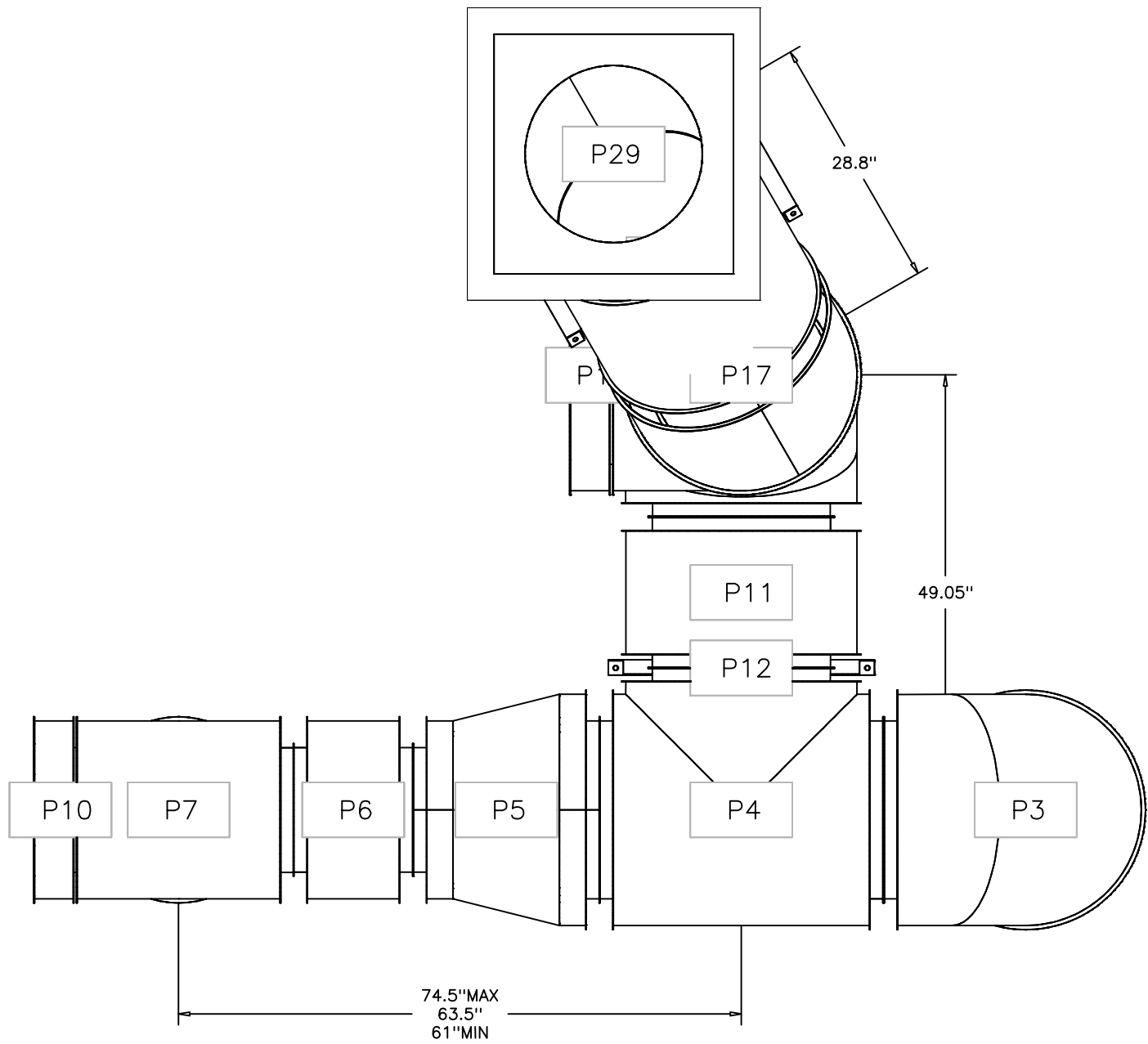
DUCTWORK #1 FRONT VIEW
H-03



DUCTWORK #1 SIDE VIEW
H-03



DUCTWORK #1 TOP VIEW
H-03



REVISIONS

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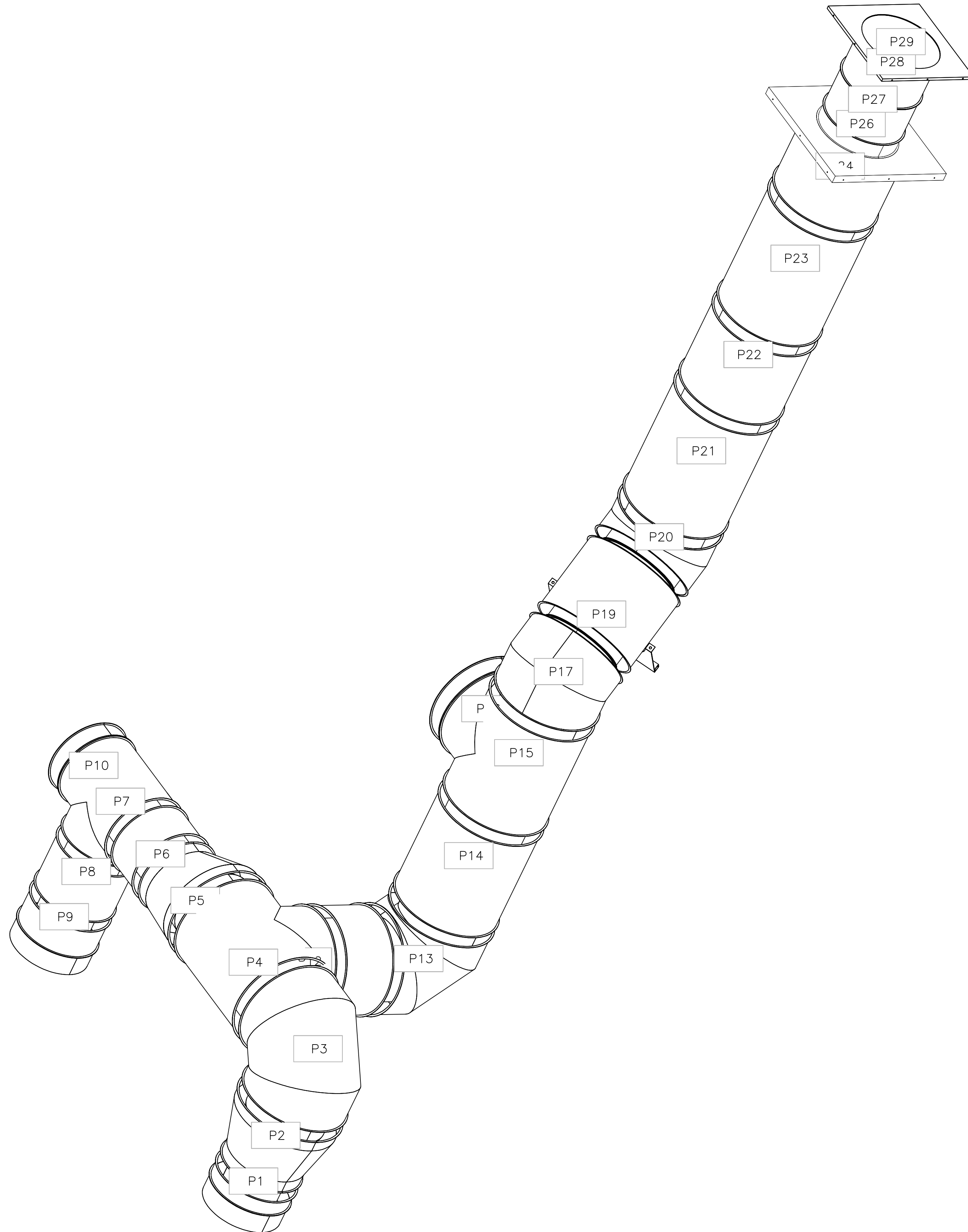
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International Village – Duct – H 3,4,5,6,7
PUYALLUP, WA, 98371

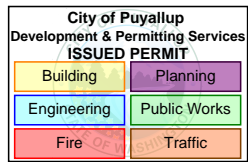
DATE: 2/5/2025
DWG. # 7310318
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SCALE: NOT TO SCALE
MASTER DRAWING

SHEET NO. 4

DUCTWORK #1 SE VIEW
H-03



REVISIONS	
DESCRIPTION	DATE:
<div><div></div><div><div>CAPTIVE MECHANICAL</div><div>Seattle Mechanical</div><div>www.captiveairs.com</div></div></div>	
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International Village – Duct – H 3,4,5,6,7 PUYALLUP, WA, 98371	
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SCALE: 3/4" = 1'–0"	
MASTER DRAWING	
SHEET NO. 5	




DUCTWORK #2 PARTS – JOB#7310318 DOUBLE WALL H–04										
TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
Hood Riser	DW20DWRISER–2R–S	2138				–0.711	8.36	0.00	1	DOUBLE WALL RISER COVER – USED ON 16" INNER RISER, 4" LONG – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
P1	DW1611DWLT–2R–S	2138				–0.0034	16.52	1531.23	1	DOUBLE WALL DUCT 16" INNER DUCT, 11" LONG – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P1						–0.7144	0.00			
P2 ASSEMBLED W/P35	DW16DWTEASY–2R–S	2138		1		–0.1053	49.32	1531.23	1	DOUBLE WALL DUCT – 16" INNER TEE DUCT – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P2						–0.8197	0.00			
P3	DW1601DWOFFSETASY–2R–S	2138				–0.0024	14.42	1531.23	1	DOUBLE WALL DUCT – 16" INNER DUCT RISER & 1 DEGREE OFFSET – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P3						–0.8221	0.00			
P4	DW1647DWLT–2R–S	2138				–0.0143	70.12	1531.23	1	DOUBLE WALL DUCT – 16" INNER DUCT, 47" LONG – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P4						–0.8364	0.00			
P5	DW2024SADKIT						8.01		1	DUCT – HORIZONTAL SADDLE SUPPORT KIT, USED WITH 20" OD – INCLUDES UNI–STRUT CUT TO LENGTH, DW2024SAD, & HARDWARE BAG 4.
P6	DW1647DWAJD–2R–S	2138				–0.0083	103.34	1531.23	1	DOUBLE WALL ADJUSTABLE DUCT – 16" INNER DUCT – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
SYSTEM AT P6						–0.8447	0.00			
P7	DW1635DWLT–2R–S	2138				–0.0107	52.26	1531.23	1	DOUBLE WALL DUCT – 16" INNER DUCT, 35" LONG – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P7						–0.8554	0.00			
P8	DW2024SADKIT						8.01		1	DUCT – HORIZONTAL SADDLE SUPPORT KIT, USED WITH 20" OD – INCLUDES UNI–STRUT CUT TO LENGTH, DW2024SAD, & HARDWARE BAG 4.
P9	DW1645DWASY–2R–S	2138				–0.0311	22.06	1531.23	1	DOUBLE WALL DUCT – 16" INNER 45 DUCT – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P9						–0.8865	0.00			
P10	DW1645DWASY–2R–S	2138				–0.0547	22.06	1531.23	1	DOUBLE WALL DUCT – 16" INNER 45 DUCT – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P10						–0.9412	0.00			
P11 ASSEMBLED W/P34	DW16DWTEASY–2R–S	2138		1		–0.0085	49.32	1531.23	1	DOUBLE WALL DUCT – 16" INNER TEE DUCT – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P11						–0.9497	0.00			
P12	DW1647DWLT–2R–S	2138				–0.0143	70.12	1531.23	1	DOUBLE WALL DUCT – 16" INNER DUCT, 47" LONG – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P12						–0.964	0.00			
P13	DW2024SADKIT						8.01		1	DUCT – HORIZONTAL SADDLE SUPPORT KIT, USED WITH 20" OD – INCLUDES UNI–STRUT CUT TO LENGTH, DW2024SAD, & HARDWARE BAG 4.
P14	DW1647DWAJD–2R–S	2138				–0.007	103.34	1531.23	1	DOUBLE WALL ADJUSTABLE DUCT – 16" INNER DUCT – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
SYSTEM AT P14						–0.971	0.00			
P15	DW2024SADKIT						8.01		1	DUCT – HORIZONTAL SADDLE SUPPORT KIT, USED WITH 20" OD – INCLUDES UNI–STRUT CUT TO LENGTH, DW2024SAD, & HARDWARE BAG 4.
P16	DW1635DWLT–2R–S	2138				–0.0107	52.26	1531.23	1	DOUBLE WALL DUCT 16" INNER DUCT, 35" LONG – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P16						–0.9817	0.00			
P17 ASSEMBLED W/P18	DW16DWTEASY–2R–S	2138		1		–0.0794	49.32	1531.23	1	DOUBLE WALL DUCT – 16" INNER TEE DUCT – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P17						–1.0611	0.00			
P18 ASSEMBLED W/P17 O=S	DW16DWACCDORCOV–2R–S						21.48		1	DOUBLE WALL DUCT – 16" INNER ACCESS DOOR & 20" ACCESS DOOR COVER WITH CLAMPS – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
P19	DW1647DWAJD–2R–S	2138				–0.0098	103.34	1531.23	1	DOUBLE WALL ADJUSTABLE DUCT – 16" INNER DUCT – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
SYSTEM AT P19						–1.0709	0.00			
P20	DW1690DWASY–2R–S	2138				–0.1404	40.05	1531.23	1	DOUBLE WALL DUCT – 16" INNER 90 DUCT – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P20						–1.2113	0.00			
P21	DW1647DWLT–2R–S	2138				–0.0143	70.12	1531.23	1	DOUBLE WALL DUCT – 16" INNER DUCT, 47" LONG – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P21						–1.2256	0.00			
P22 ASSEMBLED W/P23	DW16DWTEASY–2R–S	2138		1		–0.0085	49.32	1531.23	1	DOUBLE WALL DUCT – 16" INNER TEE DUCT – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P22						–1.2341	0.00			
P23 ASSEMBLED W/P22 O=T	DW16DWACCDORCOV–2R–S						21.48		1	DOUBLE WALL DUCT – 16" INNER ACCESS DOOR & 20" ACCESS DOOR COVER WITH CLAMPS – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
P24	DW1647DWAJD–2R–S	2138				–0.0096	103.34	1531.23	1	DOUBLE WALL ADJUSTABLE DUCT – 16" INNER DUCT – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
SYSTEM AT P24						–1.2437	0.00			
P25	DW1647DWLT–2R–S	2138				–0.0143	70.12	1531.23	1	DOUBLE WALL DUCT – 16" INNER DUCT, 47" LONG – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P25						–1.258	0.00			
P26	DW1645DWASY–2R–S	2138				–0.0219	22.06	1531.23	1	DOUBLE WALL DUCT – 16" INNER 45 DUCT – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P26						–1.2799	0.00			
P27	DW1607DWLT–2R–S	2138				–0.0021	12.38	1531.23	1	DOUBLE WALL DUCT – 16" INNER DUCT, 7" LONG – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL. STANDARD PART.
SYSTEM AT P27						–1.282	0.00			
P28	DW2024SADKIT						8.01		1	DUCT – HORIZONTAL SADDLE SUPPORT KIT, USED WITH 20" OD – INCLUDES UNI–STRUT CUT TO LENGTH, DW2024SAD, & HARDWARE BAG 4.
P29	DW1645DWASY–2R–S	2138				–0.0547	22.06	1531.23	1	DOUBLE WALL DUCT – 16" INNER 45 DUCT – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P29						–1.3367	0.00			
P30	DW1647DWLT–2R–S	2138				–0.0143	70.12	1531.23	1	DOUBLE WALL DUCT – 16" INNER DUCT, 47" LONG – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P30						–1.351	0.00			
P31 ASSEMBLED W/P32	DW162150DWLTP–2R–S	2138				–0.0066	32.92	1531.23	1	DOUBLE WALL DUCT – 16" INNER DUCT, 21.5" LONG – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL – USED WITH TRANSITION PLATE.
SYSTEM AT P31						–1.3576	0.00			
P32 ASSEMBLED W/P31 O=B	DW2616TPDBEX	2138					9.00	1531.23	1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 26 1/2" CURB TO 16" DUCT, 16 GA ALUMINIZED. USED ON NCA18FA / NCA18HFA & NCA18FA / NCA18HFA. TRANSITION PLATE OD IS 27.00" DESIGNED FOR USE WITH EXHAUST FAN.

DUCTWORK #2 PARTS – JOB#7310318 DOUBLE WALL H–04										
TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P33	DW2024SADKIT						8.01		1	DUCT – HORIZONTAL SADDLE SUPPORT KIT, USED WITH 20" OD – INCLUDES UNI–STRUT CUT TO LENGTH, DW2024SAD, & HARDWARE BAG 4.
P34 ASSEMBLED W/P11 O=T	DW16DWACCDORCOV–2R–S						21.48		1	DOUBLE WALL DUCT – 16" INNER ACCESS DOOR & 20" ACCESS DOOR COVER WITH CLAMPS – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
P35 ASSEMBLED W/P2 O=S	DW16DWACCDORCOV–2R–S						21.48		1	DOUBLE WALL DUCT – 16" INNER ACCESS DOOR & 20" ACCESS DOOR COVER WITH CLAMPS – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER SHELL.
RC1	DW20DWRISER–2R–S						8.36		1	DOUBLE WALL RISER COVER – USED ON 16" INNER RISER, 4" LONG – 2 LAYERS REDUCED CLEARANCE – 20" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
	3M–2000PLUS						0.80		7	DUCT – 3M FIRE BARRIER 2000 PLUS SILICONE – USED AS SEALANT TO SEAL DUCT JOINTS.
	DW16DWCLASY–2R–S						7.96		15	DUCT – 16" DUCT – 20" DOUBLE "V" CLAMP – 2R INSULATION & SINGLE "V" CLAMP INCLUDED – REDUCED CLEARANCE.
TOTAL WEIGHT							1554.99			

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DESCRIPTION	DATE:
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DATE: 2/5/2025

DWG. #
7310318

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Building

Engineering

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Public Works

Traffic

SHEET NO.
6

DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

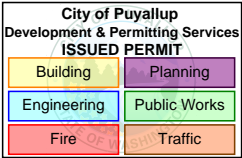
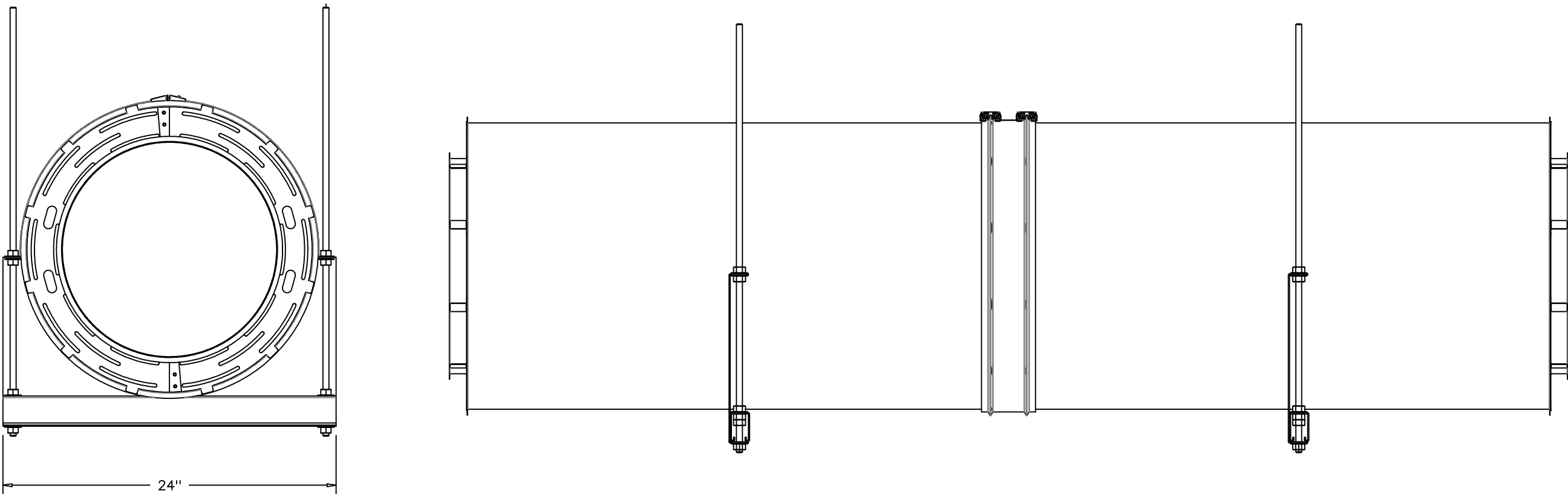
HORIZONTAL	
DUCT DIAMETER	SUPPORT SPACING (FT)
5"	7'
6"	7'
7"	7'
8"	7'
10"	7'
12"	7'
14"	7'
16"	7'
18"	5'
20"	5'
22"	5'
24"	5'
26"	5'
28"	5'
30"	5'
32"	5'
34"	5'
36"	5'

VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5"-16")	20'	24'	24'
2R (18")	18'	24'	24'
3R & 3Z (5"-24")	10'	24'	24'
3Z (26" -36")	10'	20'	20'

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

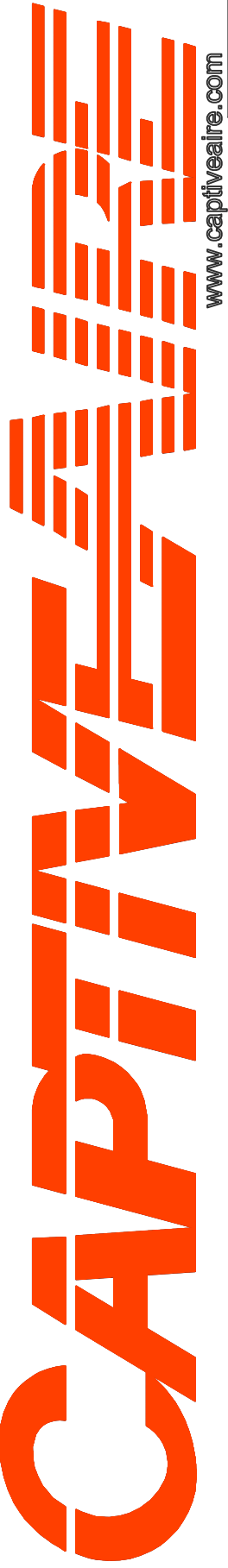
SUPPORT SYSTEM DETAILS #2

DW2024SADKIT – HORIZONTAL SUPPORTS



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PUYALLUP, WA, 98371

DATE: 2/5/2025

DWG. NO:
7310318

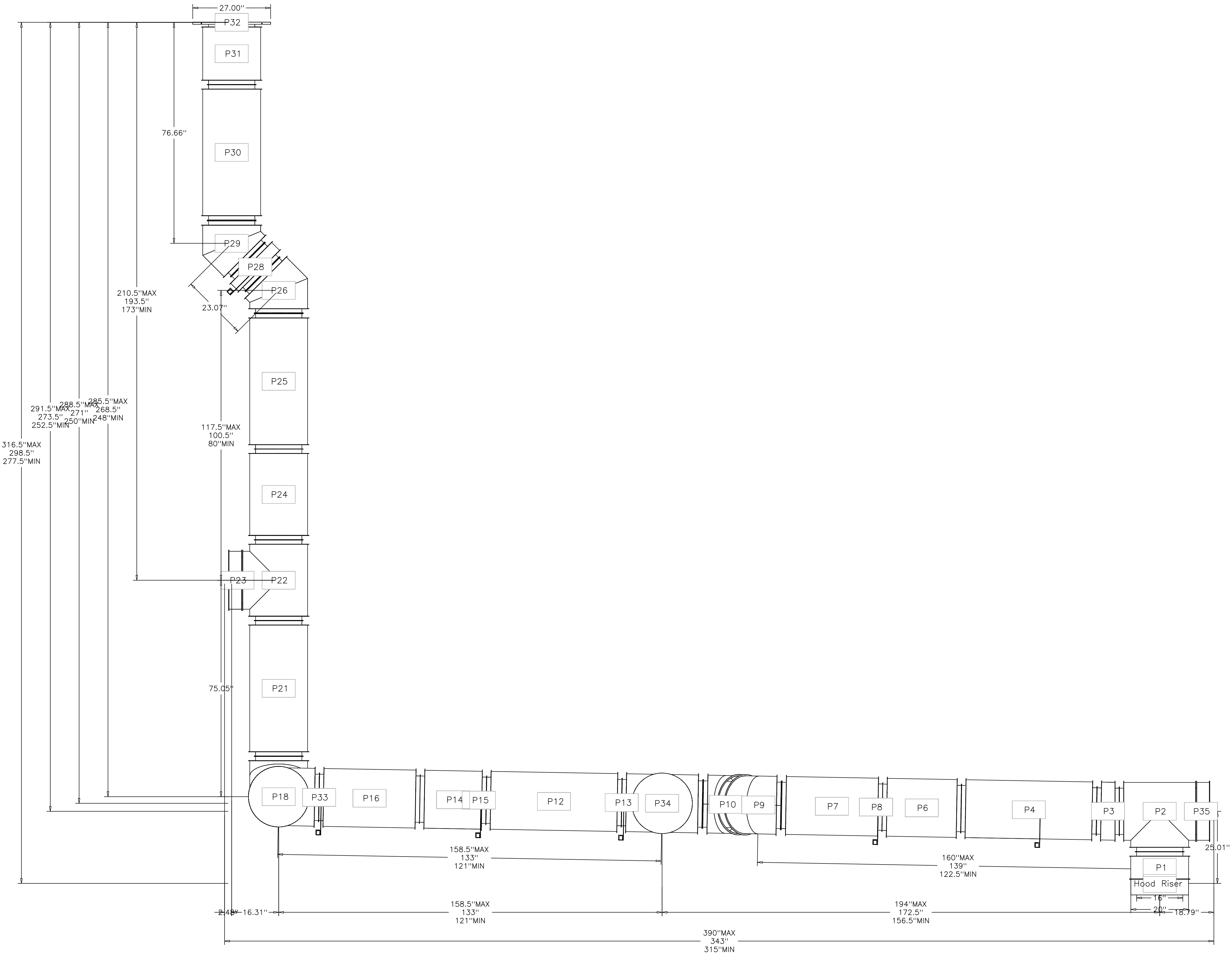
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SCALE:
3/4" = 1'-0"

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DUCTWORK #2 FRONT VIEW
H-04



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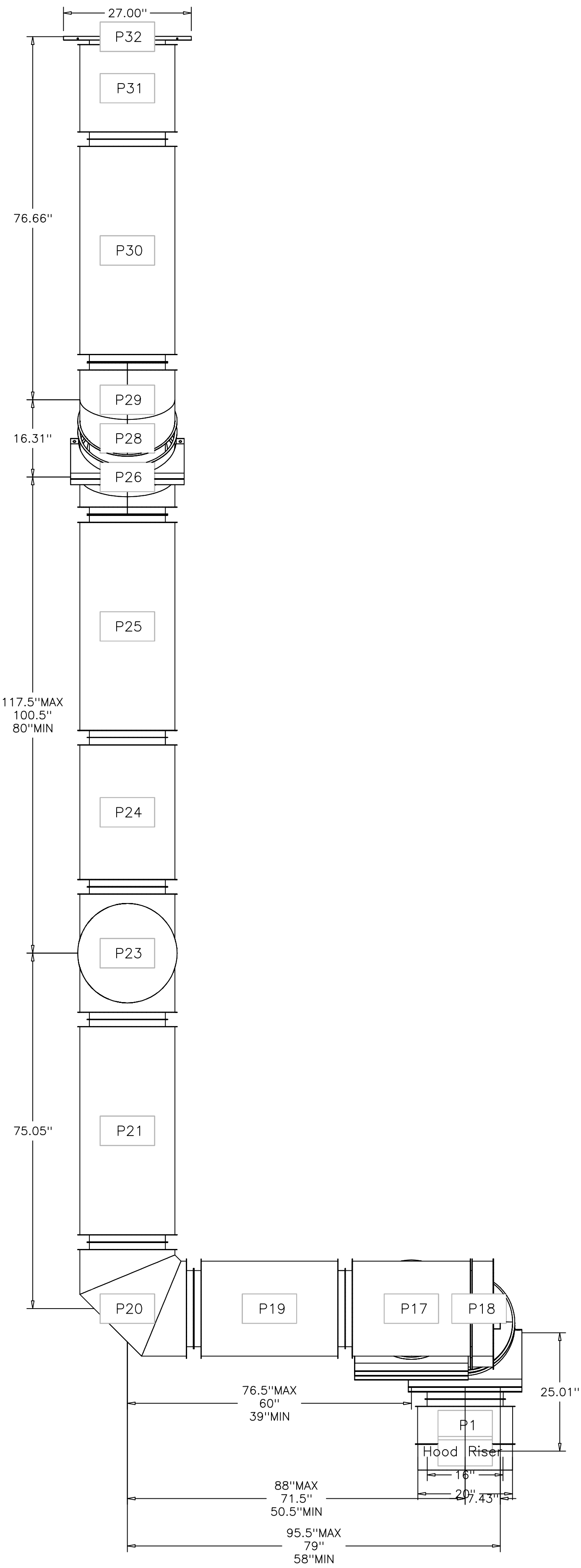
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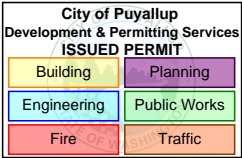
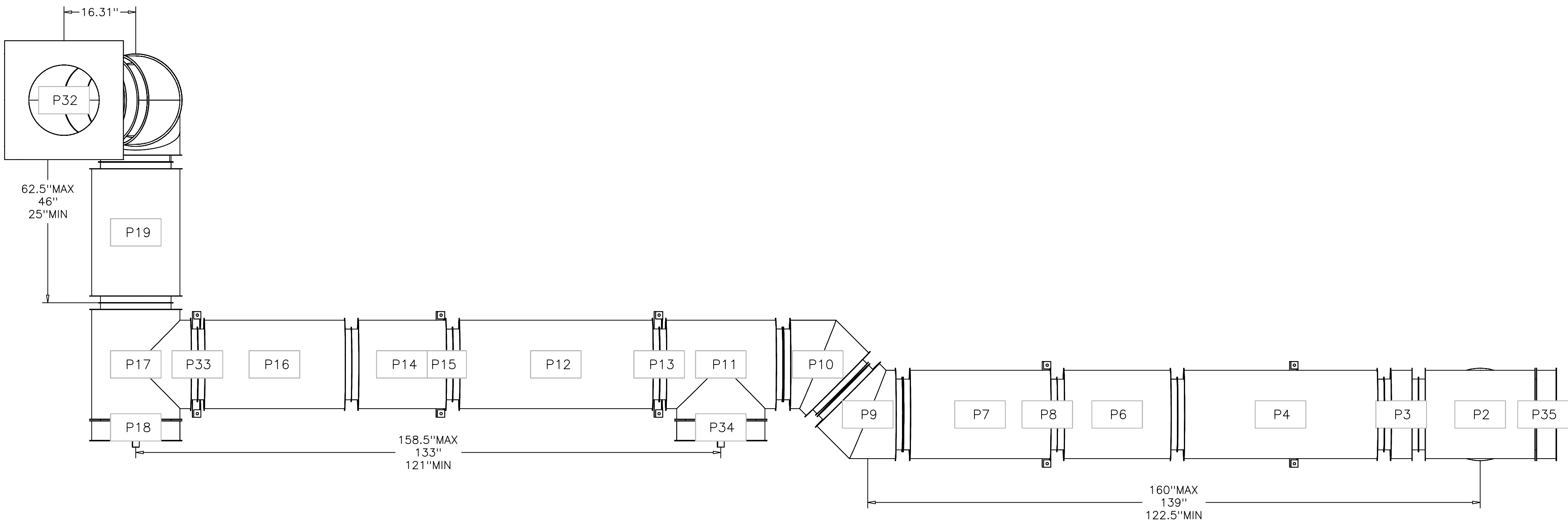
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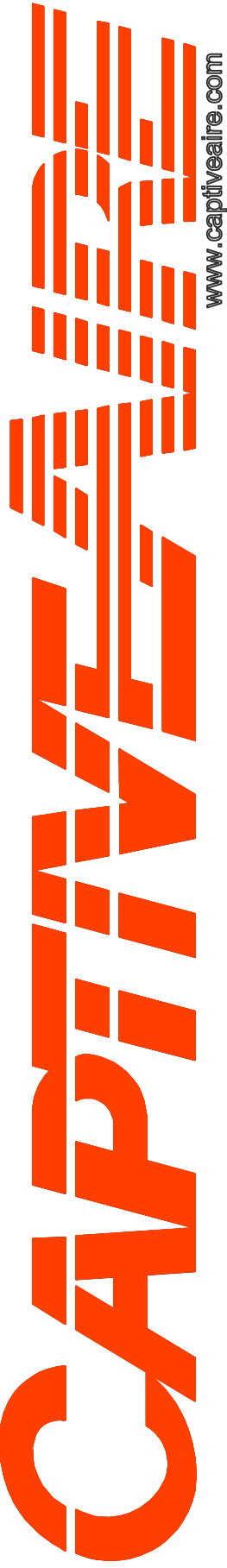
DUCTWORK #2 SIDE VIEW
H-04



DUCTWORK #2 TOP VIEW
H-04



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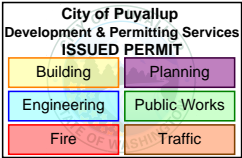
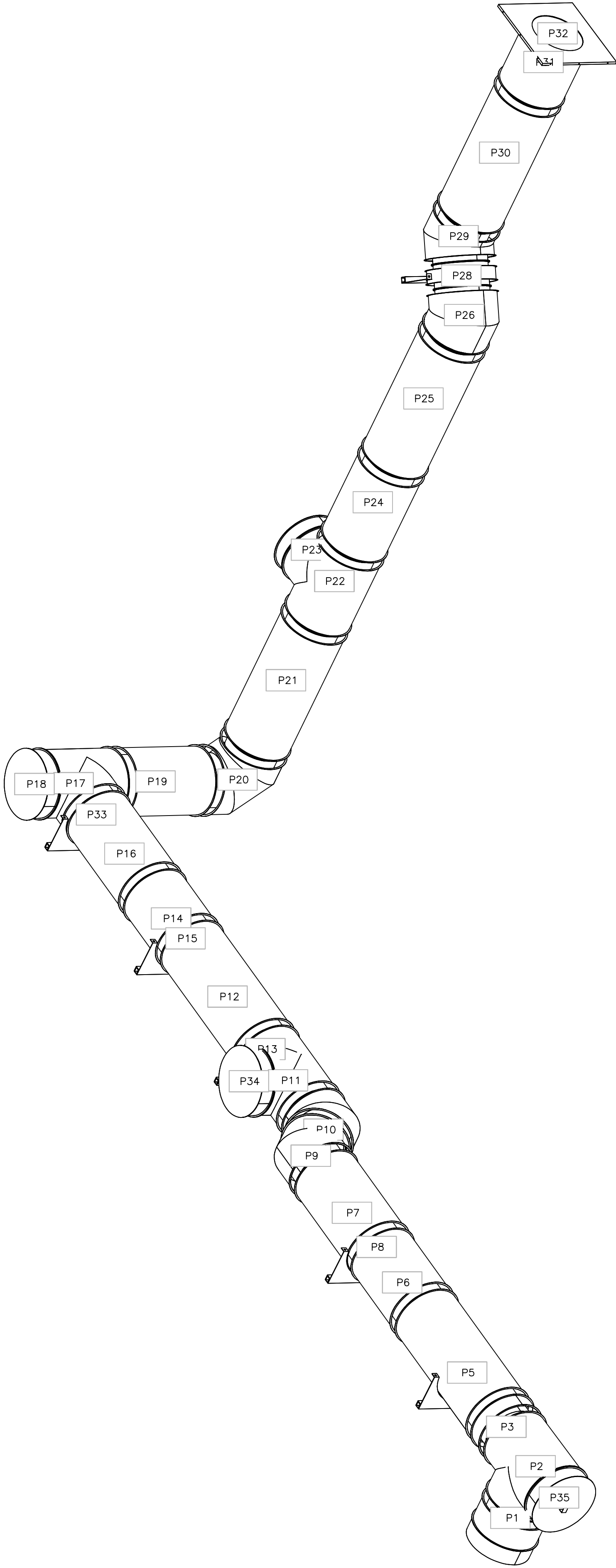


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CAPTIVE MECHANICAL

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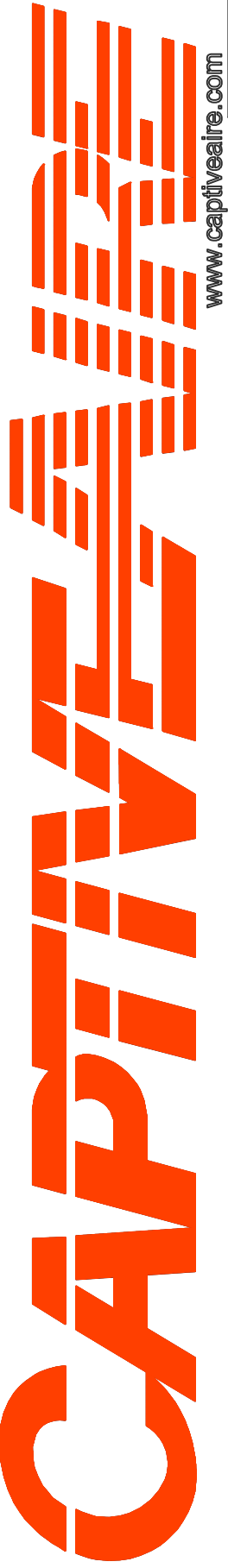
10

DUCTWORK #3 PARTS – JOB#7310318 DOUBLE WALL H-05

TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
Hood Riser	DW18DWRISER-2R-S	1666				0.732	8.15	0.00	1	DOUBLE WALL RISER COVER – USED ON 14" INNER RISER, 4" LONG – 2 LAYERS REDUCED CLEARANCE – 18" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
Hood Riser	DW18DWRISER-2R-S	1666				0.732	8.15	0.00	1	DOUBLE WALL RISER COVER – USED ON 14" INNER RISER, 4" LONG – 2 LAYERS REDUCED CLEARANCE – 18" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
P1	DW1411DWLT-2R-S	1666				-0.004	14.89	1558.45	1	DOUBLE WALL DUCT – 14" INNER DUCT, 11" LONG – 2 LAYERS REDUCED CLEARANCE – 18" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P1						-0.004	0.00			
P2	DW1490DWASY-2R-S	1666				-0.1046	33.30	1558.45	1	DOUBLE WALL DUCT – 14" INNER 90 DUCT – 2 LAYERS REDUCED CLEARANCE – 18" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P2						-0.1086	0.00			
P3	DW1418DWRNDADPEC2ASY17-2R-S	1666				-0.0329	32.30	1558.45	1	DOUBLE WALL DUCT ECCENTRIC – 14" X 18" RND2RND ADAPTER – 17" TALL – 2 LAYERS REDUCED CLEARANCE – 18" X 22" STAINLESS STEEL OUTER SHELL. STANDARD ADAPTER.
SYSTEM AT P3						-0.1415	0.00			
P4	DW18DWTEASY-2R-S	3332		1		-0.4505	55.68	1885.53	1	DOUBLE WALL DUCT – 18" INNER TEE DUCT – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P4						-0.592	0.00			
P5	DW1418DWRNDADPEC2ASY17-2R-S	1666				-0.0329	32.30	1558.45	1	DOUBLE WALL DUCT ECCENTRIC – 14" X 18" RND2RND ADAPTER – 17" TALL – 2 LAYERS REDUCED CLEARANCE – 18" X 22" STAINLESS STEEL OUTER SHELL. STANDARD ADAPTER.
SYSTEM AT P5						-0.1415	0.00			
P6 ASSEMBLED W/P8	DW14DWTEASY-2R-S	1666		1		-0.1046	41.37	1558.45	1	DOUBLE WALL DUCT – 14" INNER TEE DUCT – 2 LAYERS REDUCED CLEARANCE – 18" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P6						-0.1086	0.00			
P7	DW1411DWLT-2R-S	1666				-0.004	14.89	1558.45	1	DOUBLE WALL DUCT – 14" INNER DUCT, 11" LONG – 2 LAYERS REDUCED CLEARANCE – 18" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P7						-0.004	0.00			
P8 ASSEMBLED W/P6 O=S	DW14DWACCDOORCOV-2R-S						22.25		1	DOUBLE WALL DUCT – 14" INNER ACCESS DOOR & 18" ACCESS DOOR COVER WITH CLAMPS – 2 LAYERS REDUCED CLEARANCE – 18" STAINLESS STEEL OUTER SHELL.
P9	DW1845DWASY-2R-S	3332				-0.2659	26.22	1885.53	1	DOUBLE WALL DUCT – 18" INNER 45 DUCT – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P9						-0.8579	0.00			
P10	DW1807DWLT-2R-S	3332				-0.0022	13.10	1885.53	1	DOUBLE WALL DUCT – 18" INNER DUCT, 7" LONG – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P10						-0.8601	0.00			
P11	DW2226SADKIT						8.80		1	DUCT – HORIZONTAL SADDLE SUPPORT KIT, USED WITH 22" OD – INCLUDES UNI-STRUT CUT TO LENGTH, DW2226SAD, & HARDWARE BAG 4.
P12	DW1890DWASY-2R-S	3332				-0.2188	45.59	1885.53	1	DOUBLE WALL DUCT – 18" INNER 90 DUCT – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P12						-1.0789	0.00			
P13	DW1847DWAJD-2R-S	3332				-0.0098	107.98	1885.53	1	DOUBLE WALL ADJUSTABLE DUCT – 18" INNER DUCT – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
SYSTEM AT P13						-1.0887	0.00			
P14 ASSEMBLED W/P15	DW18DWTEASY-2R-S	3332		1		-0.0092	55.68	1885.53	1	DOUBLE WALL DUCT – 18" INNER TEE DUCT – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P14						-1.0979	0.00			
P15 ASSEMBLED W/P14 O=T	DW18DWACCDOORCOV-2R-S						26.16		1	DOUBLE WALL DUCT – 18" INNER ACCESS DOOR & 22" ACCESS DOOR COVER WITH CLAMPS – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
P16	DW1829DWLT-2R-S	3332				-0.0089	50.46	1885.53	1	DOUBLE WALL DUCT – 18" INNER DUCT, 29" LONG – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P16						-1.1068	0.00			
P17	DW1845DWASY-2R-S	3332				-0.062	26.22	1885.53	1	DOUBLE WALL DUCT – 18" INNER 45 DUCT – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P17						-1.1688	0.00			
P18	DW1845DWASY-2R-S	3332				-0.0385	26.22	1885.53	1	DOUBLE WALL DUCT – 18" INNER 45 DUCT – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P18						-1.2073	0.00			
P19	DW1807DWLT-2R-S	3332				-0.0022	13.10	1885.53	1	DOUBLE WALL DUCT – 18" INNER DUCT, 7" LONG – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P19						-1.2095	0.00			
P20 ASSEMBLED W/P21	DW1835DWLTTP-2R-S	3332				-0.0108	58.74	1885.53	1	DOUBLE WALL DUCT – 18" INNER DUCT, 35" LONG – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL – USED WITH TRANSITION PLATES
SYSTEM AT P20						-1.2203	0.00			
P21 ASSEMBLED W/P20 O=B	DW2618TPDBEX	3332					9.00	1885.53	1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 26 1/2" CURB TO 18" DUCT, 16 GA ALUMINIZED. USED ON NCA16FA / NCA16HPFA & NCA18FA / NCA18HPFA. TRANSITION PLATE OD IS 27.00" DESIGNED FOR USE WITH EXHAUST FAN.
RC1	DW18DWRISER-2R-S						8.15		1	DOUBLE WALL RISER COVER – USED ON 14" INNER RISER, 4" LONG – 2 LAYERS REDUCED CLEARANCE – 18" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
RC2	DW18DWRISER-2R-S						8.15		1	DOUBLE WALL RISER COVER – USED ON 14" INNER RISER, 4" LONG – 2 LAYERS REDUCED CLEARANCE – 18" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
	3M-2000PLUS						0.80		6	DUCT – 3M FIRE BARRIER 2000 PLUS SILICONE – USED AS SEALANT TO SEAL DUCT JOINTS.
	DW14DWCLASY-2R-S						7.21		4	DUCT – 14" DUCT – 18" DOUBLE "V" CLAMP – 2R INSULATION & SINGLE "V" CLAMP INCLUDED – REDUCED CLEARANCE.
	DW18DWCLASY-2R-S						8.70		10	DUCT – 18" DUCT – 22" DOUBLE "V" CLAMP – 2R INSULATION & SINGLE "V" CLAMP INCLUDED – REDUCED CLEARANCE.
TOTAL WEIGHT							867.49			

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PUYALLUP, WA, 98371

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Building

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DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL
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- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

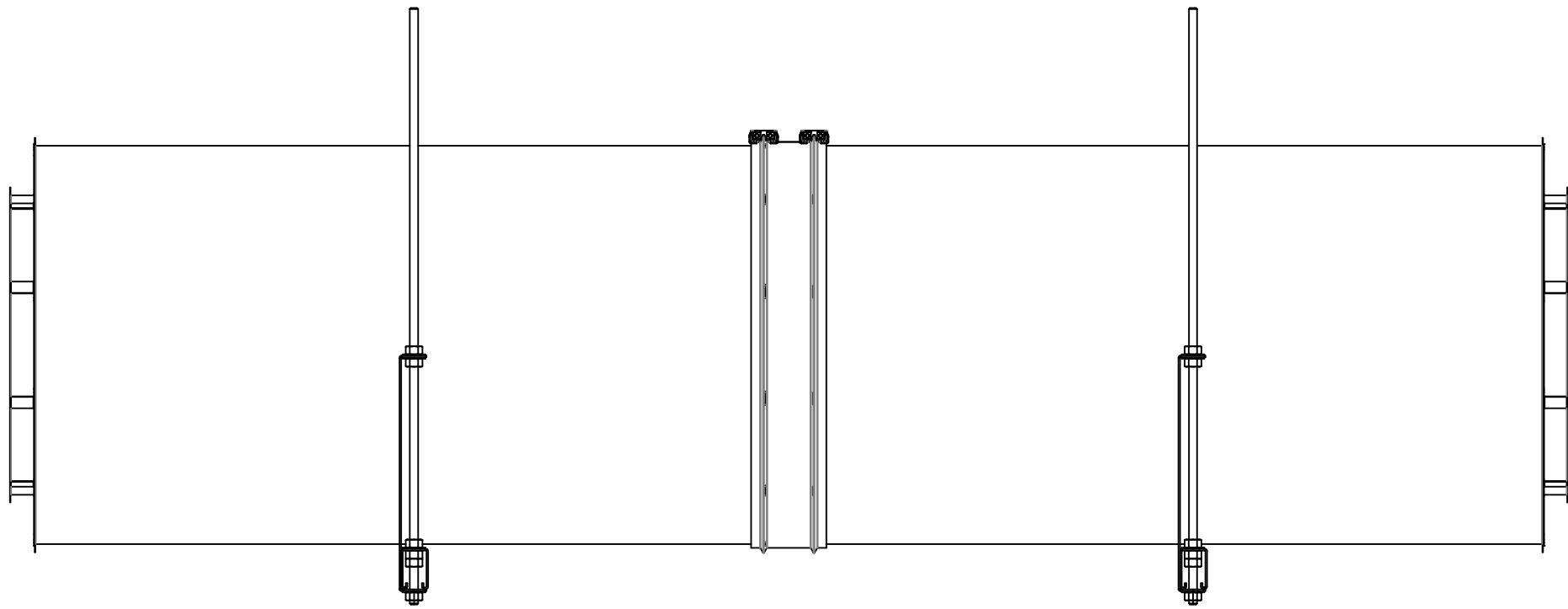
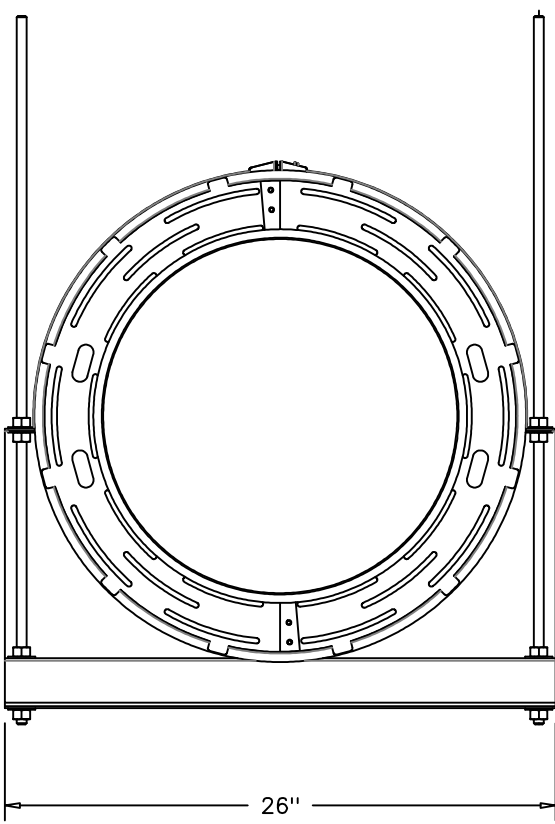
HORIZONTAL	
DUCT DIAMETER	SUPPORT SPACING (FT)
5"	7'
6"	7'
7"	7'
8"	7'
10"	7'
12"	7'
14"	7'
16"	7'
18"	5'
20"	5'
22"	5'
24"	5'
26"	5'
28"	5'
30"	5'
32"	5'
34"	5'
36"	5'

VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5"-16")	20'	24'	24'
2R (18")	18'	24'	24'
3R & 3Z (5"-24")	10'	24'	24'
3Z (26" -36")	10'	20'	20'

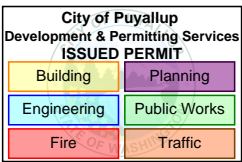
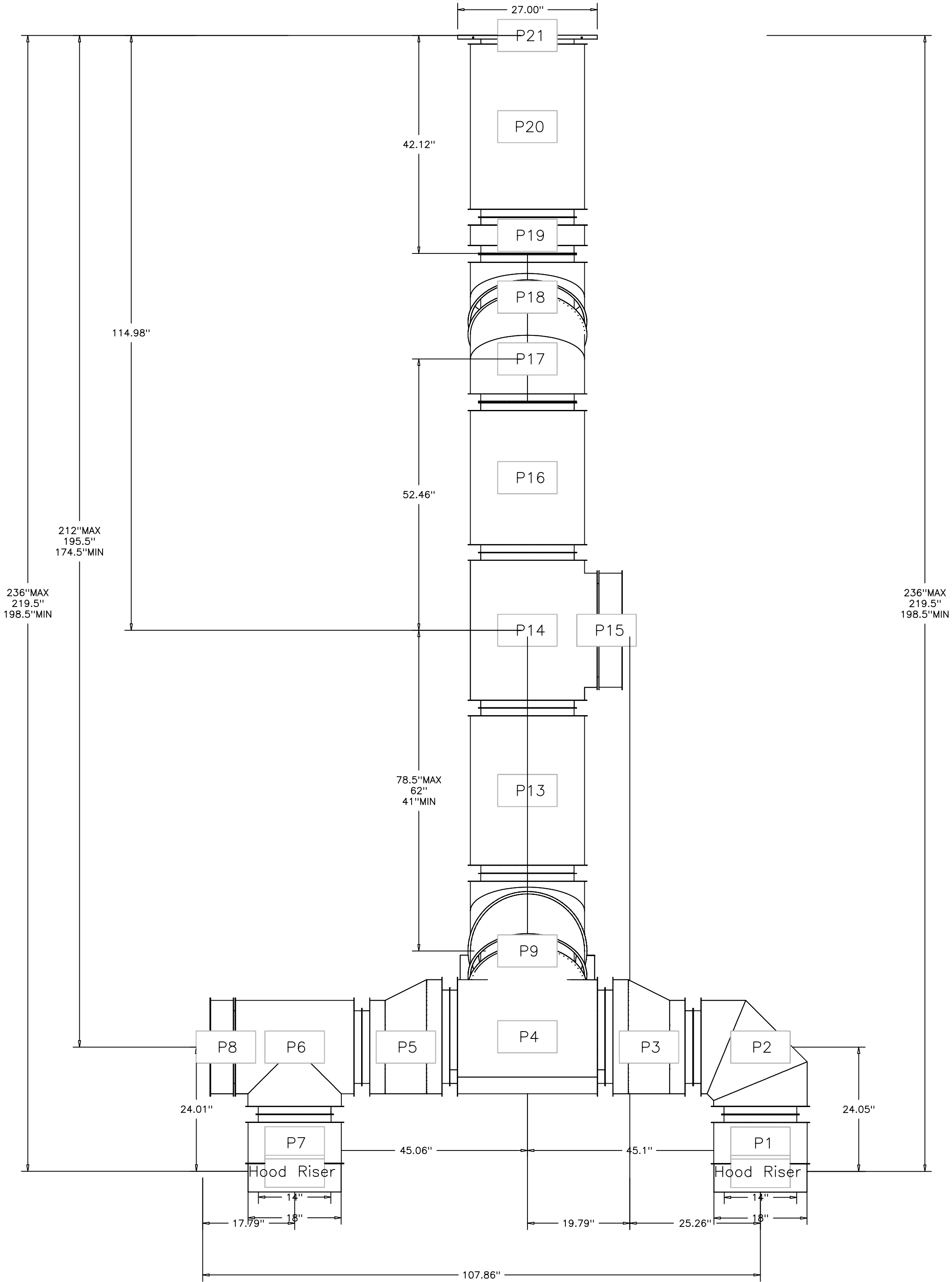
DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

SUPPORT SYSTEM DETAILS #3

DW2226SADKIT – HORIZONTAL SUPPORTS



DUCTWORK #3 FRONT VIEW
H-05



REVISIONS

DESCRIPTION	DATE:
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PUYALLUP, WA, 98371

DATE: 2/5/2025

DWG. #
7310318

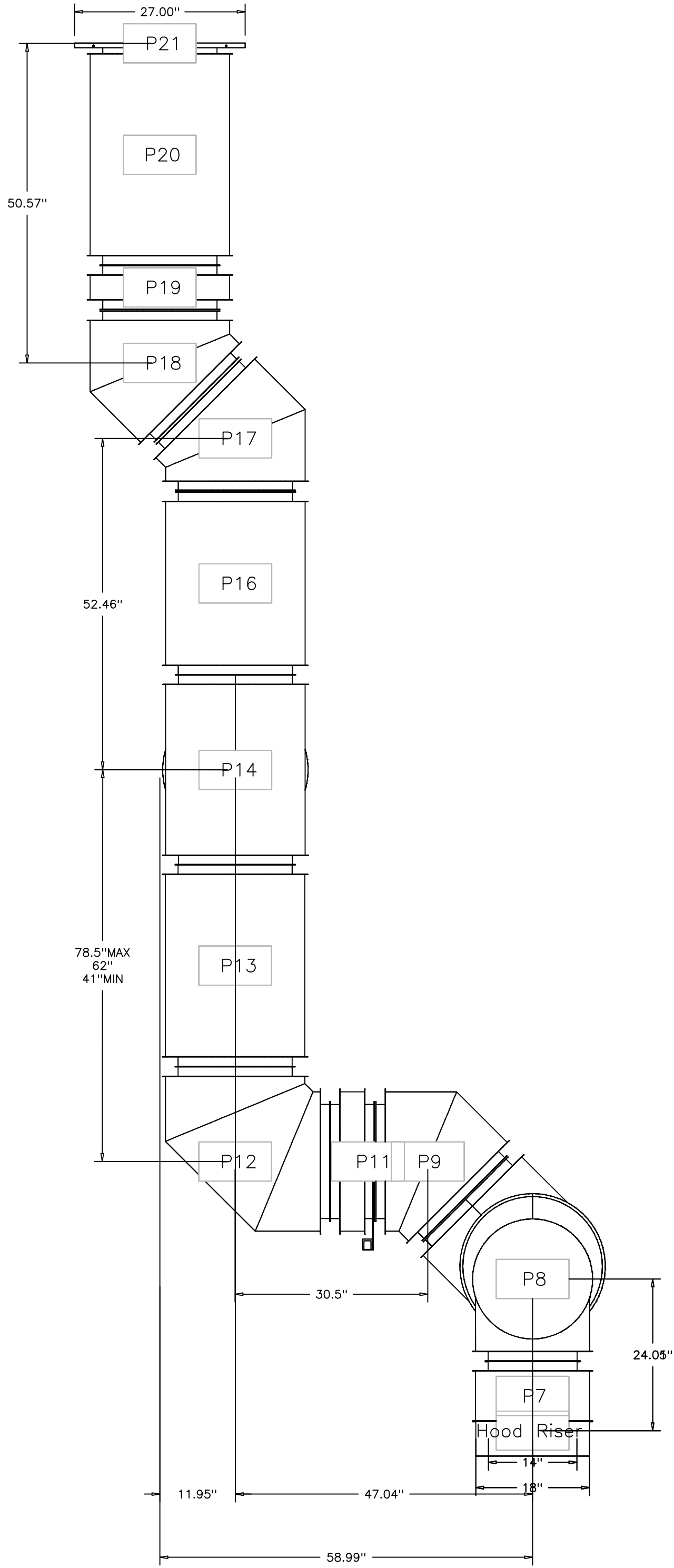
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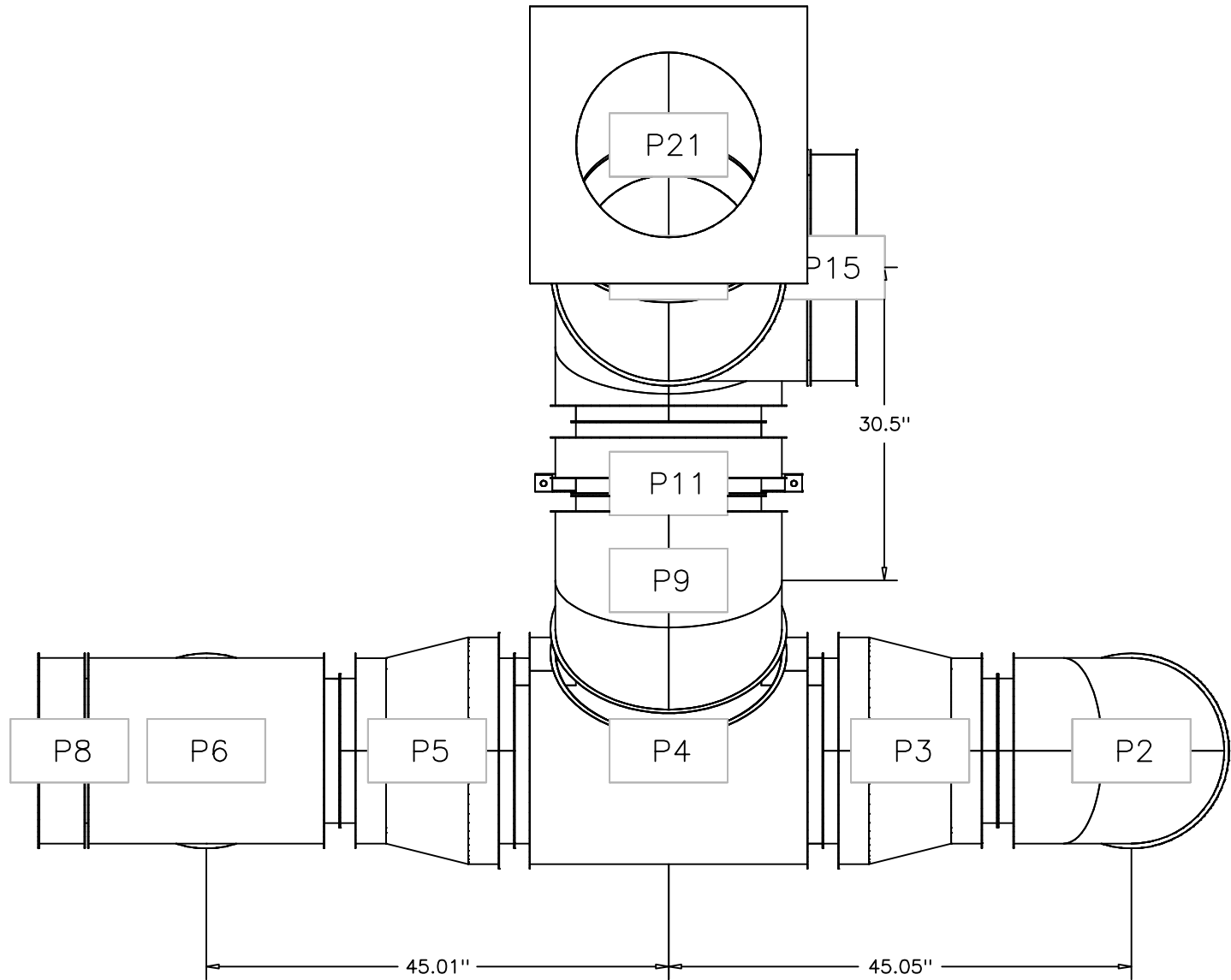
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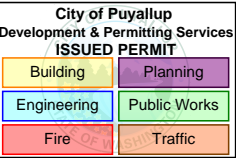
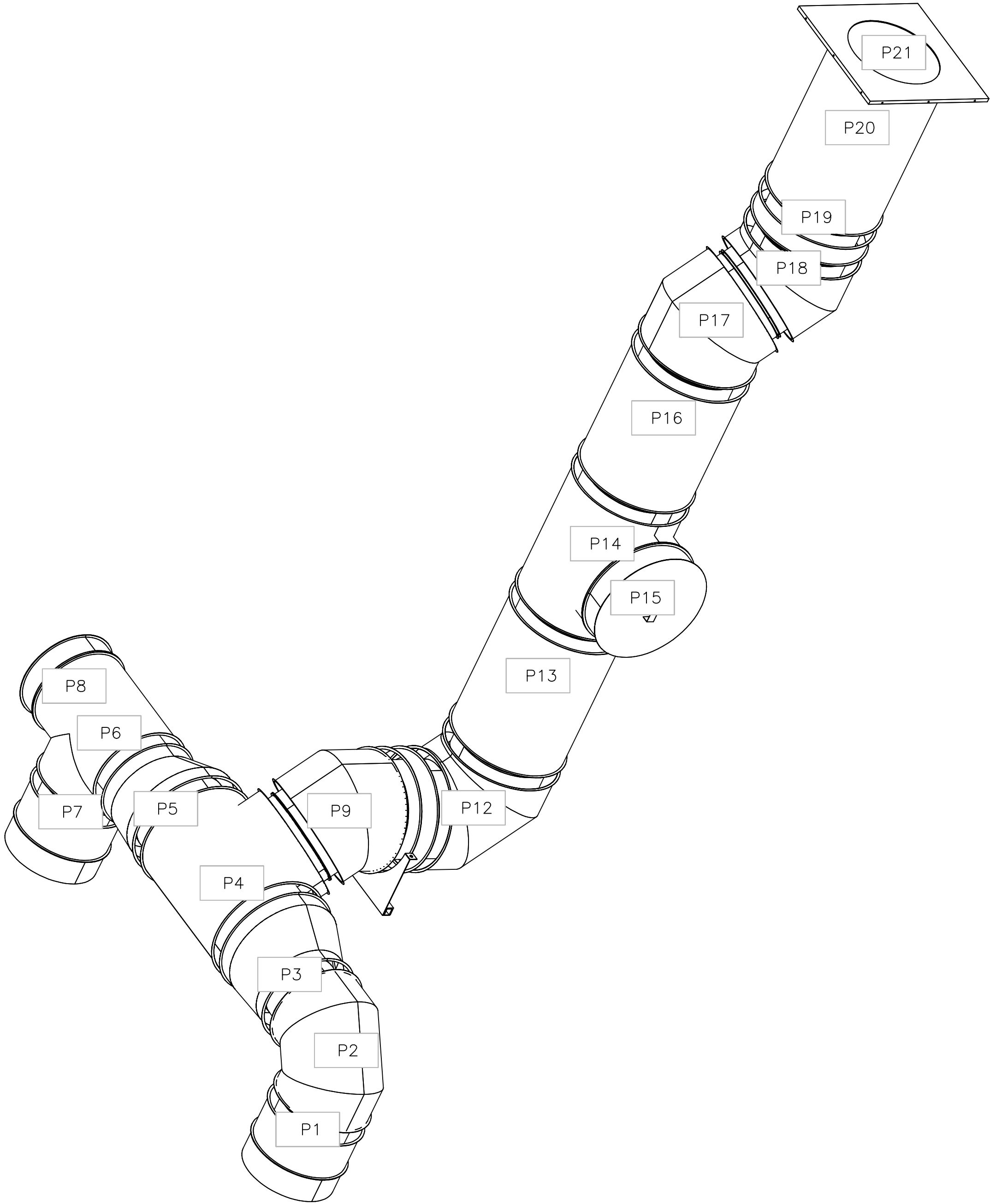
DUCTWORK #3 SIDE VIEW
H-05



DUCTWORK #3 TOP VIEW
H-05



DUCTWORK #3 SE VIEW
H-05



REVISIONS	
DESCRIPTION	DATE
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DATE: 2/5/2025
DWG: 7310318
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SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
13

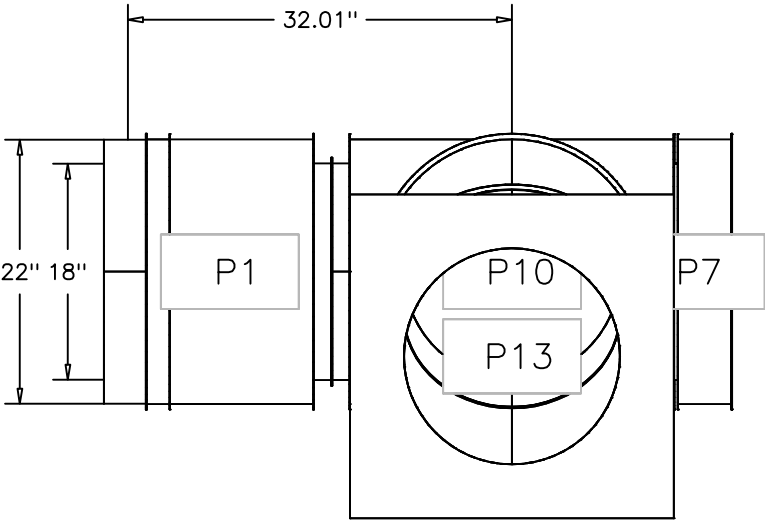
DUCTWORK #4 PARTS – JOB#7310318 DOUBLE WALL H-06										
TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
Hood Riser	DW22DWRISER-2R-S	3188				1.074	10.73	0.00	1	DOUBLE WALL RISER COVER – USED ON 18" INNER RISER, 4" LONG – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
P1	DW1817DWLT-2R-S	3188				-0.0048	27.78	1804.04	1	DOUBLE WALL DUCT – 18" INNER DUCT, 17" LONG – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P1						-0.0048	0.00			
P2 ASSEMBLED W/P3	DW18DWTEASY-2R-S	3188		1		-0.1522	55.68	1804.04	1	DOUBLE WALL DUCT – 18" INNER TEE DUCT – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P2						-0.157	0.00			
P3 ASSEMBLED W/P2 O=S	DW18DWACCDOORCOV-2R-S						26.16		1	DOUBLE WALL DUCT – 18" INNER ACCESS DOOR & 22" ACCESS DOOR COVER WITH CLAMPS – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
P4	DW1847DWLT-2R-S	3188				-0.0132	77.59	1804.04	1	DOUBLE WALL DUCT – 18" INNER DUCT, 47" LONG – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P4						-0.1702	0.00			
P5	DW1817DWLT-2R-S	3188				-0.0048	27.78	1804.04	1	DOUBLE WALL DUCT – 18" INNER DUCT, 17" LONG – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P5						-0.175	0.00			
P6 ASSEMBLED W/P7	DW18DWTEASY-2R-S	3188		1		-0.0085	55.68	1804.04	1	DOUBLE WALL DUCT – 18" INNER TEE DUCT – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P6						-0.1835	0.00			
P7 ASSEMBLED W/P6 O=T	DW18DWACCDOORCOV-2R-S						26.16		1	DOUBLE WALL DUCT – 18" INNER ACCESS DOOR & 22" ACCESS DOOR COVER WITH CLAMPS – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
P8	DW1847DWAJD-2R-S	3188				-0.0089	107.98	1804.04	1	DOUBLE WALL ADJUSTABLE DUCT – 18" INNER DUCT – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
SYSTEM AT P8						-0.1924	0.00			
P9	DW1829DWLT-2R-S	3188				-0.0082	50.46	1804.04	1	DOUBLE WALL DUCT – 18" INNER DUCT, 29" LONG – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P9						-0.2006	0.00			
P10	DW1830DWASY-2R-S	3188				-0.0369	21.84	1804.04	1	DOUBLE WALL DUCT – 18" INNER 30 DUCT – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P10						-0.2375	0.00			
P11	DW1830DWASY-2R-S	3188				-0.0282	21.84	1804.04	1	DOUBLE WALL DUCT – 18" INNER 30 DUCT – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P11						-0.2657	0.00			
P12 ASSEMBLED W/P13	DW182150DWLTP-2R-S	3188				-0.0061	35.34	1804.04	1	DOUBLE WALL DUCT – 18" INNER DUCT, 21.5" LONG – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL – USED WITH TRANSITION PLATE.
SYSTEM AT P12						-0.2718	0.00			
P13 ASSEMBLED W/P12 O=B	DW2618TPDBEX	3188					9.00	1804.04	1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 26 1/2" CURB TO 18" DUCT, 16 GA ALUMINIZED. USED ON NCA16FA / NCA16HPFA & NCA18FA / NCA18HPFA. TRANSITION PLATE OD IS 27.00" DESIGNED FOR USE WITH EXHAUST FAN.
RC1	DW22DWRISER-2R-S						10.73		1	DOUBLE WALL RISER COVER – USED ON 18" INNER RISER, 4" LONG – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
	3M-2000PLUS						0.80		4	DUCT – 3M FIRE BARRIER 2000 PLUS SILICONE – USED AS SEALANT TO SEAL DUCT JOINTS.
	DW18DWCLASY-2R-S						8.70		7	DUCT – 18" DUCT – 22" DOUBLE "V" CLAMP – 2R INSULATION & SINGLE "V" CLAMP INCLUDED – REDUCED CLEARANCE.
TOTAL WEIGHT							628.85			

DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

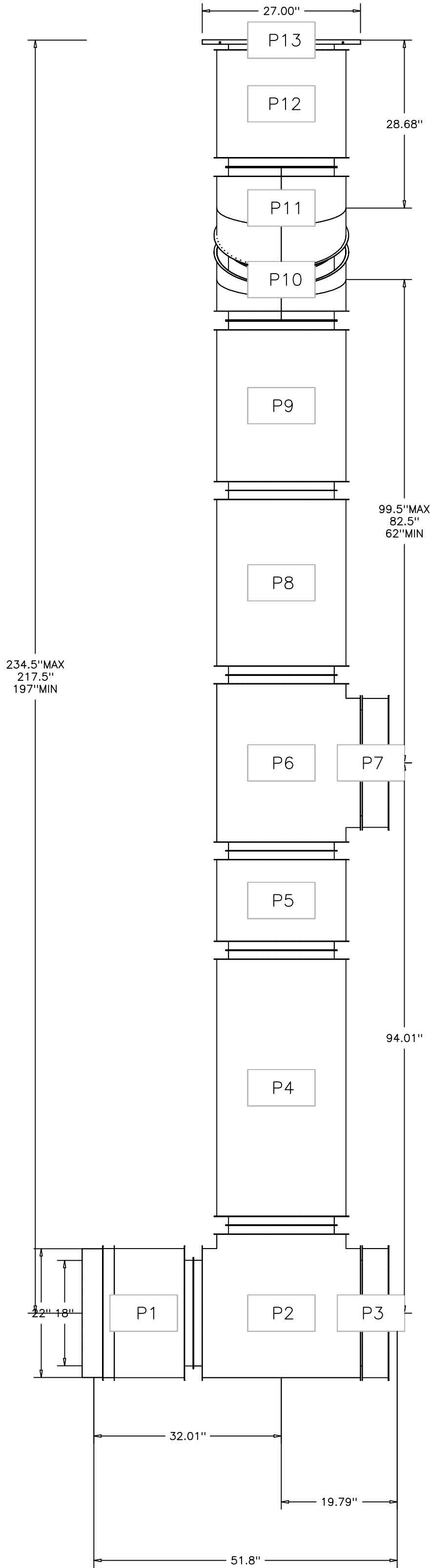
HORIZONTAL	
DUCT DIAMETER	SUPPORT SPACING (FT)
5"	7'
6"	7'
7"	7'
8"	7'
10"	7'
12"	7'
14"	7'
16"	7'
18"	5'
20"	5'
22"	5'
24"	5'
26"	5'
28"	5'
30"	5'
32"	5'
34"	5'
36"	5'

VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5"-16")	20'	24'	24'
2R (18")	18'	24'	24'
3R & 3Z (5"-24")	10'	24'	24'
3Z (26" –36")	10'	20'	20'

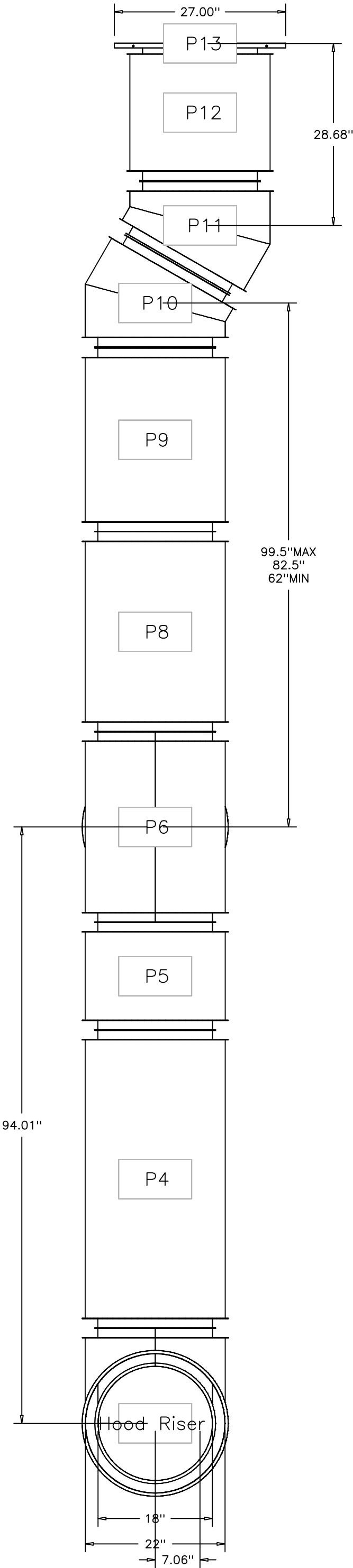


DUCTWORK #4 TOP VIEW
H-06

DUCTWORK #4 FRONT VIEW
H-06



DUCTWORK #4 SIDE VIEW
H-06



DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

REVISIONS

DESCRIPTION	DATE:
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PUYALLUP, WA, 98371

DATE: 2/5/2025

DWG. # 7310318

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SCALE: 3/4" = 1'-0"

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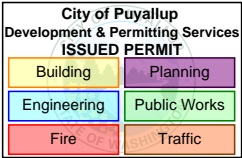
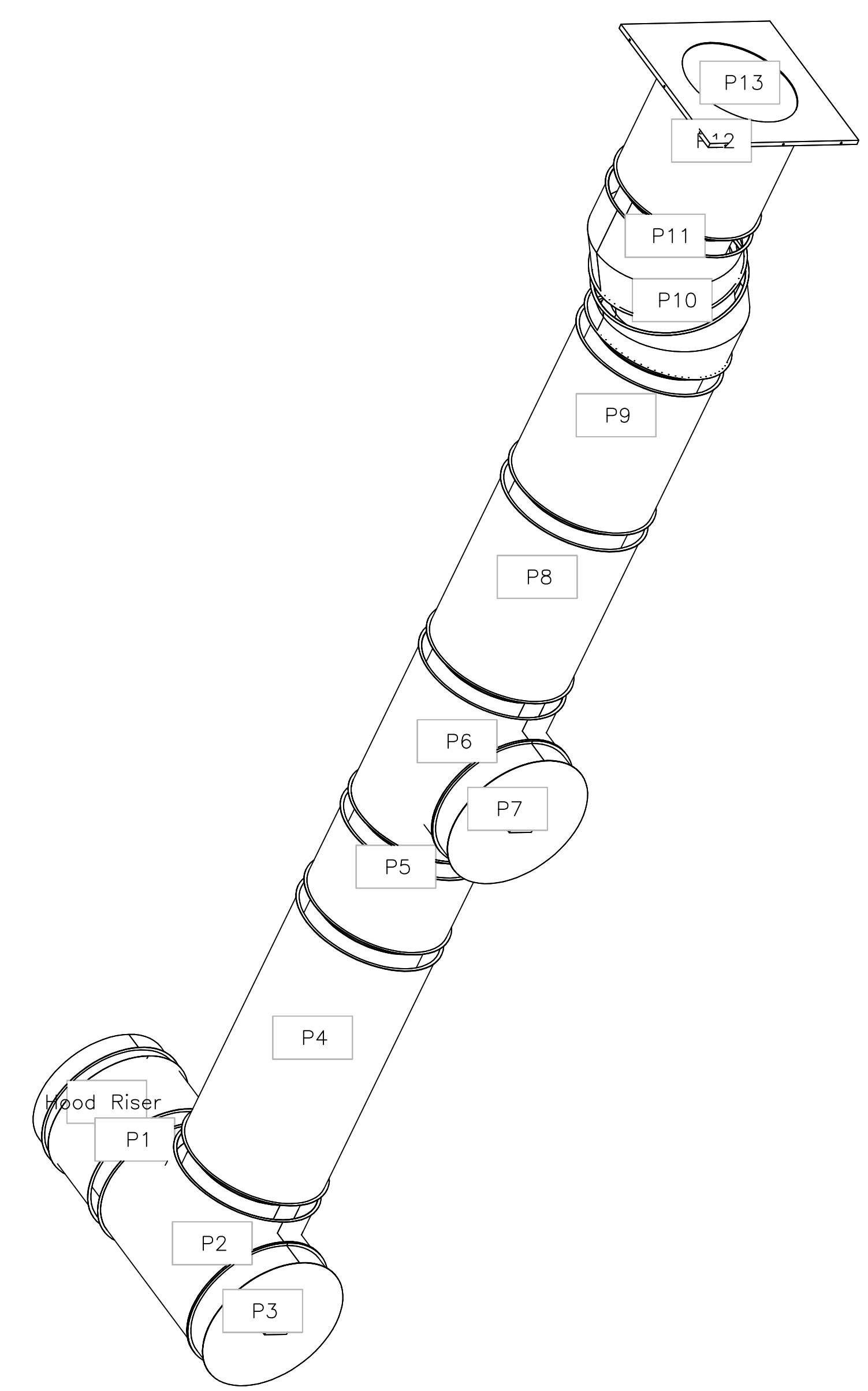
CITY OF PUYALLUP
Development & Permitting Services
ISSUED PERMIT

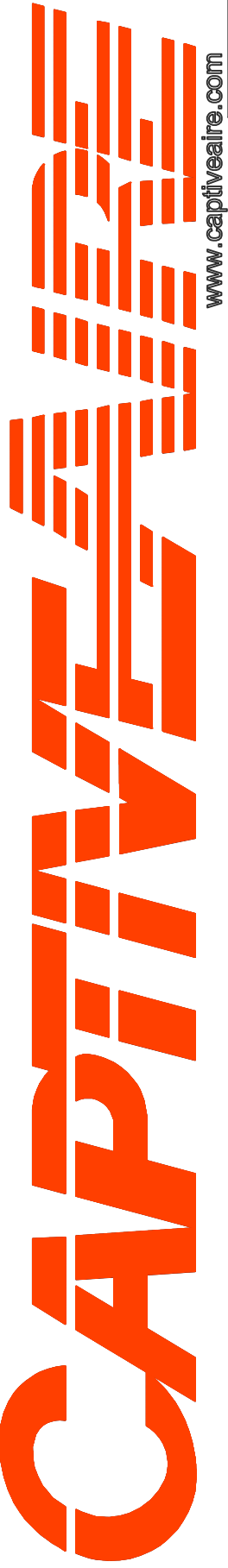


Building	Planning
Engineering	Public Works
Fire	Traffic

SHEET NO.

14

DUCTWORK #4 SE VIEW
H-06



REVISIONS		
DESCRIPTION	DATE:	
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<div>  <div> <div>Seattle Mechanical</div> <div>www.captivea.com</div> </div> </div> <div>   </div> <div> 10202 5th Ave NE, Suite 200, Seattle, WA, 98125 PHONE: (206) 885 - 2118 EMAIL: reg16@captivea.com </div>		
International Village – Duct – H 3,4,5,6,7 PUYALLUP, WA, 98371		
DATE: 2/5/2025		
DWG. NO: 7310318		
DRAWN BY:		
SCALE: 3/4" = 1'-0"		
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<div>SHEET NO.</div> <div>15</div>		

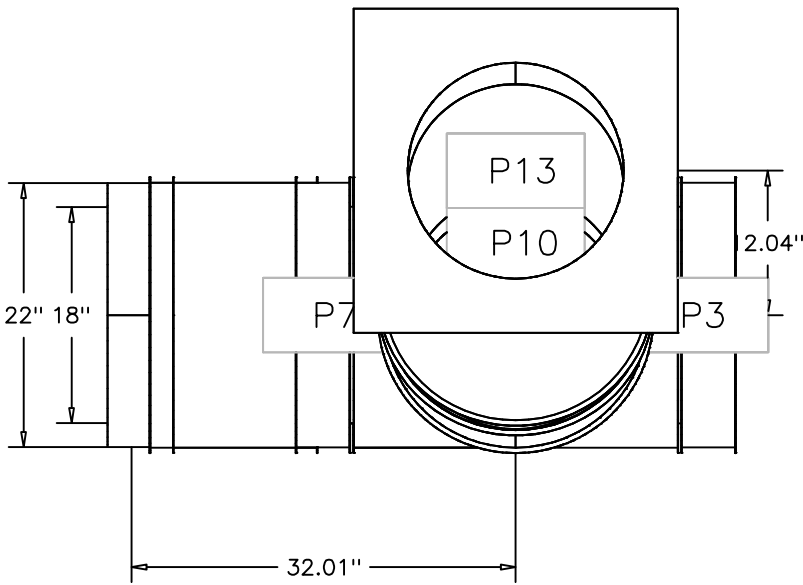
DUCTWORK #5 PARTS – JOB#7310318 DOUBLE WALL H-07										
TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
Hood Riser	DW22DWRISER-2R-S	3854				1.776	10.73	0.00	1	DOUBLE WALL RISER COVER – USED ON 18" INNER RISER, 4" LONG – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
P1	DW1817DWLT-2R-S	3854				-0.007	27.78	2180.92	1	DOUBLE WALL DUCT – 18" INNER DUCT, 17" LONG – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P1						-0.007	0.00			
P2 ASSEMBLED W/P3	DW18DWTEASY-2R-S	3854		1		-0.2224	55.68	2180.92	1	DOUBLE WALL DUCT – 18" INNER TEE DUCT – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P2						-0.2294	0.00			
P3 ASSEMBLED W/P2 O=S	DW18DWACCDOORCOV-2R-S						26.16		1	DOUBLE WALL DUCT – 18" INNER ACCESS DOOR & 22" ACCESS DOOR COVER WITH CLAMPS – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
P4	DW1847DWLT-2R-S	3854				-0.0194	77.59	2180.92	1	DOUBLE WALL DUCT – 18" INNER DUCT, 47" LONG – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P4						-0.2488	0.00			
P5	DW1847DWLT-2R-S	3854				-0.0194	77.59	2180.92	1	DOUBLE WALL DUCT – 18" INNER DUCT, 47" LONG – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P5						-0.2682	0.00			
P6 ASSEMBLED W/P7	DW18DWTEASY-2R-S	3854		1		-0.0124	55.68	2180.92	1	DOUBLE WALL DUCT – 18" INNER TEE DUCT – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P6						-0.2806	0.00			
P7 ASSEMBLED W/P6 O=T	DW18DWACCDOORCOV-2R-S						26.16		1	DOUBLE WALL DUCT – 18" INNER ACCESS DOOR & 22" ACCESS DOOR COVER WITH CLAMPS – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
P8	DW1847DWAJD-2R-S	3854				-0.0173	107.98	2180.92	1	DOUBLE WALL ADJUSTABLE DUCT – 18" INNER DUCT – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
SYSTEM AT P8						-0.2979	0.00			
P9	DW1815DWASY-2R-S	3854				-0.0356	18.82	2180.92	1	DOUBLE WALL DUCT – 18" INNER 15 DUCT – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P9						-0.3335	0.00			
P10	DW1835DWLT-2R-S	3854				-0.0144	57.50	2180.92	1	DOUBLE WALL DUCT – 18" INNER DUCT, 35" LONG – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P10						-0.3479	0.00			
P11	DW1815DWASY-2R-S	3854				-0.089	18.82	2180.92	1	DOUBLE WALL DUCT – 18" INNER 15 DUCT – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P11						-0.4369	0.00			
P12 ASSEMBLED W/P13	DW182150DWLTP-2R-S	3854				-0.0089	35.34	2180.92	1	DOUBLE WALL DUCT – 18" INNER DUCT, 21.5" LONG – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL – USED WITH TRANSITION PLATE.
SYSTEM AT P12						-0.4458	0.00			
P13 ASSEMBLED W/P12 O=B	DW2618TPDBEX	3854					9.00	2180.92	1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 26 1/2" CURB TO 18" DUCT, 16 GA ALUMINIZED. USED ON NCA16FA / NCA16HPFA & NCA18FA / NCA18HPFA. TRANSITION PLATE OD IS 27.00" DESIGNED FOR USE WITH EXHAUST FAN.
RC1	DW22DWRISER-2R-S						10.73		1	DOUBLE WALL RISER COVER – USED ON 18" INNER RISER, 4" LONG – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
	3M-2000PLUS						0.80		4	DUCT – 3M FIRE BARRIER 2000 PLUS SILICONE – USED AS SEALANT TO SEAL DUCT JOINTS.
	DW18DWCLASY-2R-S						8.70		7	DUCT – 18" DUCT – 22" DOUBLE "V" CLAMP – 2R INSULATION & SINGLE "V" CLAMP INCLUDED – REDUCED CLEARANCE.
TOTAL WEIGHT							679.66			

DOUBLE WALL FACTORY BUILT DUCTWORK

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- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

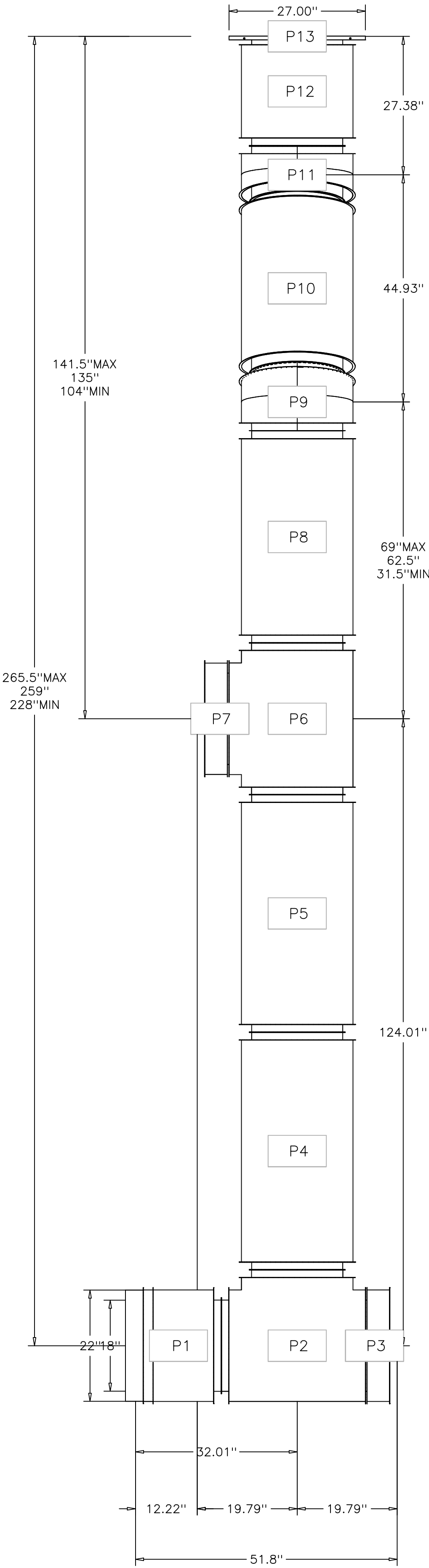
HORIZONTAL	
DUCT DIAMETER	SUPPORT SPACING (FT)
5"	7'
6"	7'
7"	7'
8"	7'
10"	7'
12"	7'
14"	7'
16"	7'
18"	5'
20"	5'
22"	5'
24"	5'
26"	5'
28"	5'
30"	5'
32"	5'
34"	5'
36"	5'

VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5"-16")	20'	24'	24'
2R (18")	18'	24'	24'
3R & 3Z (5"-24")	10'	24'	24'
3Z (26" –36")	10'	20'	20'

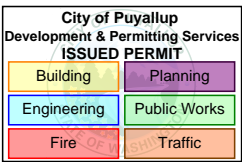
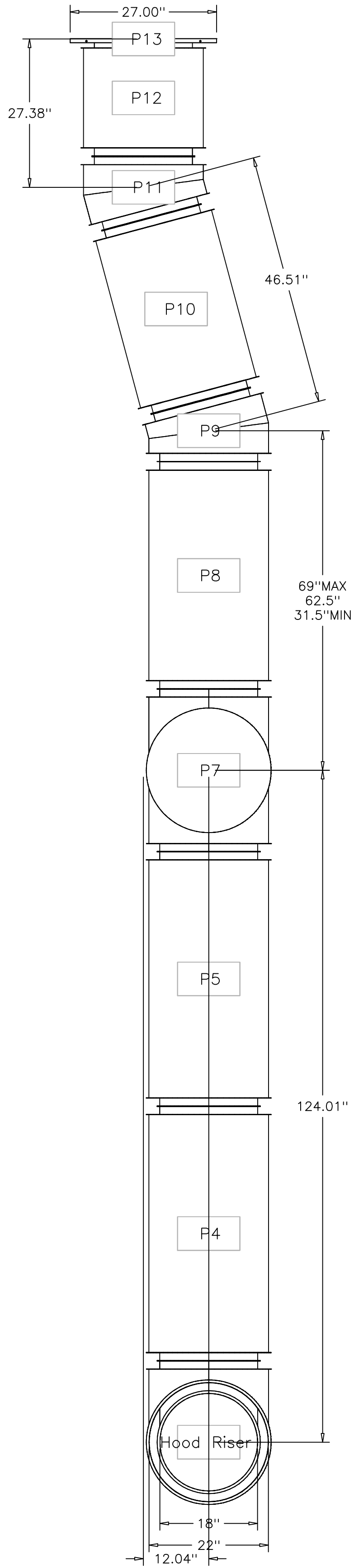


DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

DUCTWORK #5 FRONT VIEW
H-07



DUCTWORK #5 SIDE VIEW
H-07



REVISIONS

DESCRIPTION	DATE:

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PUYALLUP, WA, 98371

DATE: 2/5/2025

DWG. # 7310318

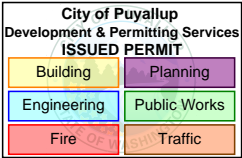
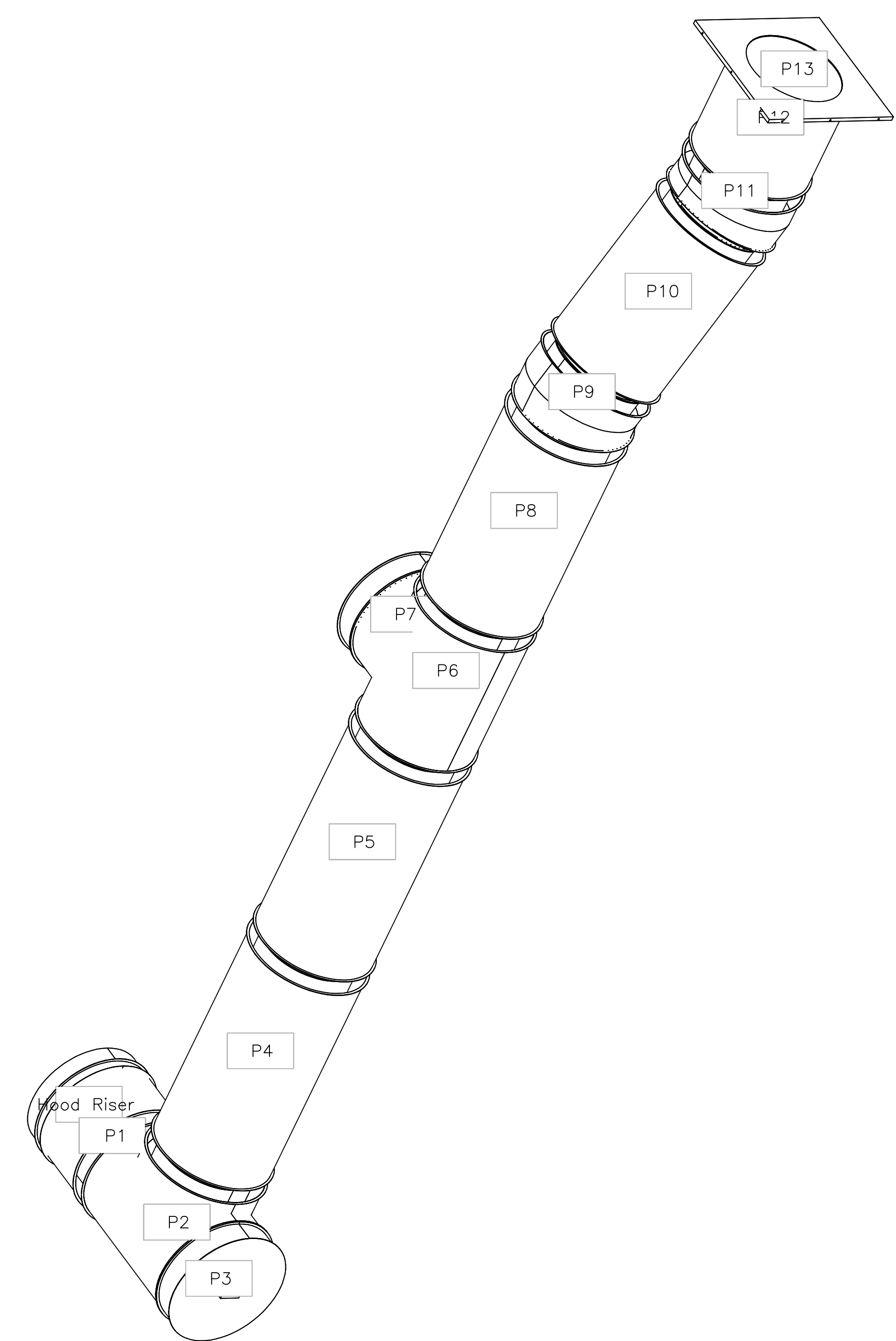
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SCALE: 3/4" = 1'-0"

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SHEET NO. 16

DUCTWORK #5 SE VIEW
H-07



REVISIONS

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PUYALLUP, WA, 98371

DATE: 2/5/2025

DWG. NO:
7310318

DRAWN BY:

SCALE:
3/4" = 1'-0"

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SHEET NO.
17