

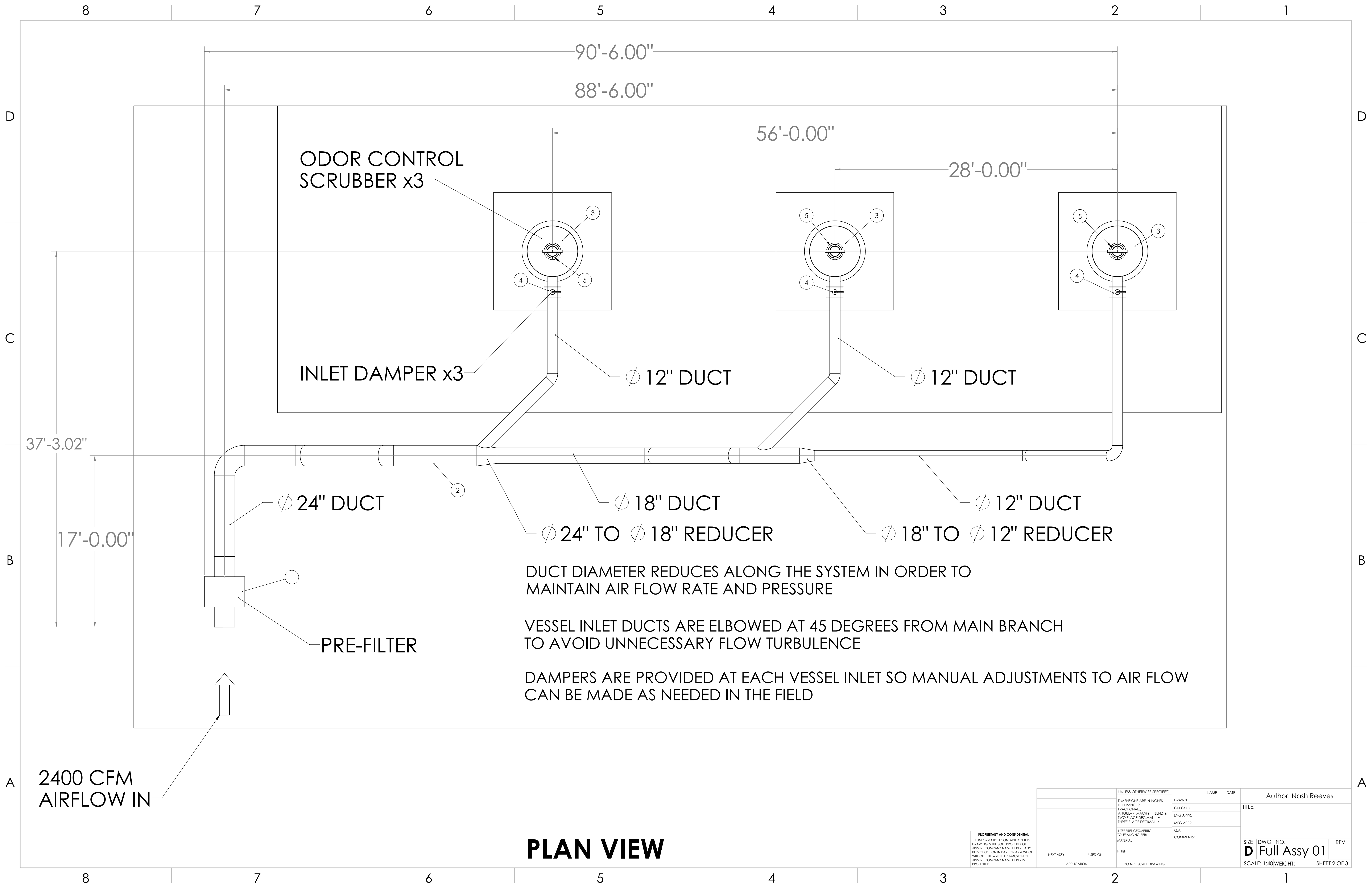
ITEM NO.	PART NUMBER	DESCRIPTION	Material	Weight	QTY.
1	PF01	Pre-Filter	Polyester Resin	175.53	1
2	Duct1	Ductwork	Polyester Resin	1477.68	1
3	Vessel 01	Air Purification Scrubber	Polyester Resin	458.26	3
4	Damper 01	Damper	Polyester Resin	12.14	3
5	Exhaust Stack	Exhaust Stack	Polyester Resin	30.47	3
6	Activated Carbon	Activated Carbon	C (Graphite)	10982.90	3

CHALLENGE: AIR POLLUTION CONTROL SCRUBBERS MUST BE PLACED ON A SLOPED SURFACE DUE TO CLIENT'S SPATIAL CONSTRAINTS  
 MUST BE BELOW A MAXIMUM CFM VALUE AT EXHAUST FOR NOISE POLLUTION CONSTRAINTS NEARBY  
 MUST MAINTAIN ADEQUATE CFM THROUGHOUT LENGTH OF SYSTEM DESPITE PRESSURE LOSS DUE TO DISTANCE FROM FOUL AIR SOURCE  
 SYSTEM IS COMPOSED OF DUCTWORK AND COMPONENTS MADE FROM FIBER-REINFORCED PLASTIC (FRP) w/0.25" THICK SIDEWALLS  
 ESTIMATED TOTAL WEIGHT OF SYSTEM: 36,000 POUNDS, OR 18 TONS

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UNLESS OTHERWISE SPECIFIED:	DRAWN	NAME	DATE	Author: Nash Reeves
DIMENSIONS ARE IN INCHES	CHECKED			TITLE:
TOLERANCES:	ENG APPR.			
FRACTIONAL: ±	MFG APPR.			
ANGULAR: MACH ± BEND ±	Q.A.			
TWO PLACE DECIMAL ±	COMMENTS:			
THREE PLACE DECIMAL ±				
INTERPRET GEOMETRIC TOLERANCING PER:				
MATERIAL:				
FINISH:				
APPLICATION:				

SIZE DWG. NO. REV  
**D Full Assy 01**  
 SCALE: 1:48 WEIGHT: SHEET 1 OF 3



ODOR CONTROL  
SCRUBBER x3

INLET DAMPER x3

PRE-FILTER

90'-6.00"

88'-6.00"

56'-0.00"

28'-0.00"

Ø 12" DUCT

Ø 12" DUCT

Ø 24" DUCT

Ø 18" DUCT

Ø 12" DUCT

Ø 24" TO Ø 18" REDUCER

Ø 18" TO Ø 12" REDUCER

DUCT DIAMETER REDUCES ALONG THE SYSTEM IN ORDER TO  
MAINTAIN AIR FLOW RATE AND PRESSURE

VESSEL INLET DUCTS ARE ELBOWED AT 45 DEGREES FROM MAIN BRANCH  
TO AVOID UNNECESSARY FLOW TURBULENCE

DAMPERS ARE PROVIDED AT EACH VESSEL INLET SO MANUAL ADJUSTMENTS TO AIR FLOW  
CAN BE MADE AS NEEDED IN THE FIELD

2400 CFM  
AIRFLOW IN

**PLAN VIEW**

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DRAWN				TITLE:
CHECKED				
ENG APPR.				
MFG APPR.				
Q.A.				
COMMENTS:				
SIZE	DWG. NO.	REV		
<b>D</b>	<b>Full Assy 01</b>			
SCALE: 1:48	WEIGHT:			SHEET 2 OF 3

8

7

6

5

4

3

2

1

D

D

C

C

B

B

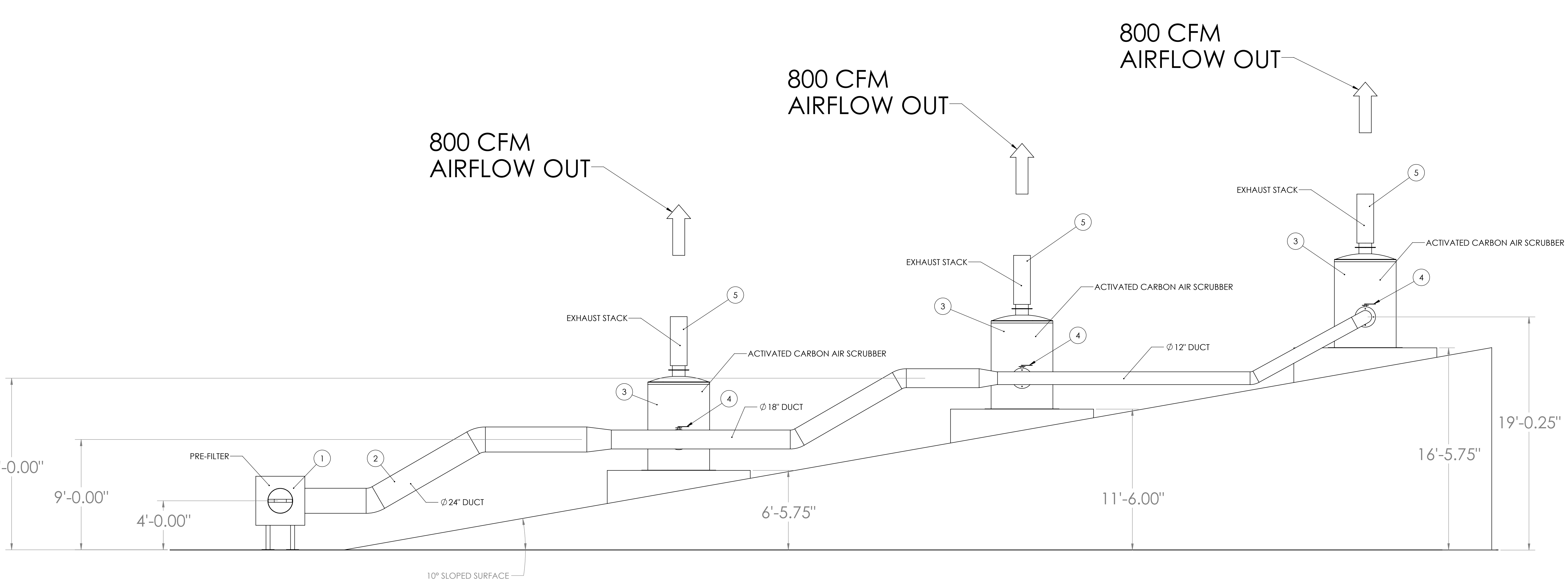
A

A

800 CFM AIRFLOW OUT

800 CFM AIRFLOW OUT

800 CFM AIRFLOW OUT



# ELEVATION VIEW

REDUCTION IN DUCT DIAMETER ACCOUNTS FOR PRESSURE LOSS NOT ONLY DUE DISTANCE FROM FOUL AIR SOURCE, BUT PRESSURE LOSS DUE TO INCREASE IN ELEVATION

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DIMENSIONS ARE IN INCHES		DRAWN		TITLE:
FRACTIONAL ±		CHECKED		
ANGULAR: MATCH ± BEND ±		ENG APPR.		
TWO PLACE DECIMAL ±		MFG APPR.		
THREE PLACE DECIMAL ±		Q.A.		
INTERPRET GEOMETRIC TOLERANCING PER:		COMMENTS:		
MATERIAL				
FINISH				
APPLICATION	DO NOT SCALE DRAWING			

SIZE	DWG. NO.	REV
D	Full Assy 01	
SCALE: 1:48	WEIGHT:	SHEET 3 OF 3

8

7

6

5

4

3

2

1