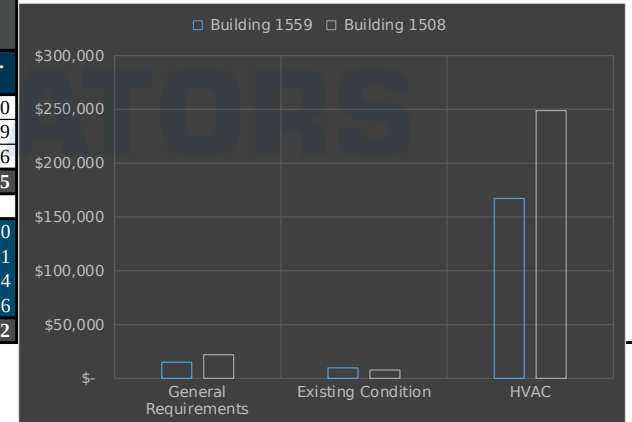


GENERAL SUMMARY

Prepared for: NDAA: Renovate Buildings 1559/1508
Project ID: 29052025
Scope: HVAC
No. Of Floors: 1
Date: 23-Sep-26



BUILDING GSF	18,690			
Building 1559 GSF	8,863			
Building 1508 GSF	9,827			
		Building 1559	Building 1508	
DIVISION NO	DESCRIPTION	TOTAL DIV. COST	TOTAL DIV. COST	TOTAL DIV. COST
1000	General Requirements	\$ 15,000	\$ 22,000	\$ 37,000
2000	Existing Condition	\$ 9,768	\$ 7,791	\$ 17,559
23000	HVAC	\$ 167,243	\$ 248,883	\$ 416,126
TOTAL TRADE COST		\$ 192,011	\$ 278,674	\$ 470,685
OVERHEAD AND PROFIT	20%	\$ 38,402	\$ 55,735	\$ 94,136.90
INSURANCE	3%	\$ 5,760	\$ 8,360	\$ 14,121
CONTINGENCY	5%	\$ 9,601	\$ 13,934	\$ 23,534
TAX	7.75%	\$ 7,054	\$ 11,052	\$ 18,106
SUGGESTED BID		\$ 252,828	\$ 367,754	\$ 620,582



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DETAILED BREAKDOWN OF ITEMS														
Prepared for: NDAA: Renovate Buildings 1559/1508 Vandenberg Space Force Base, California														
Project ID: 29052025														
Scope: HVAC														
											Date:	23-Sep-26		
SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MAN/ HOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST	
GENERAL REQUIREMENTS														
1			Permits	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ -	\$ -	
2			Supervision and Coordination	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 4,000.00	\$ 4,000.00	
3			Submittals and Shop drawings	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 2,000.00	\$ 2,000.00	
4			Final Cleaning	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 1,000.00	\$ 1,000.00	
5			Mobilization Costs	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 5,000.00	\$ 5,000.00	
6			Temporary Control & Facilities	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 3,000.00	\$ 3,000.00	
7			Scaffolding	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ -	\$ -	
SUBTOTAL													\$ 15,000	
EXISTING CONDITIONS														
DEMOLITION														
8	MD100 & MD103		Existing Ductwork To Be Removed	LF	1206	0%	1206	0.035	\$ 125.00	\$ 4.38	\$ -	\$ 4.38	\$ 5,274.63	
9			Existing HVAC Piping With Associated Fittings To Be Removed	LF	492	0%	492	0.030	\$ 125.00	\$ 3.75	\$ -	\$ 3.75	\$ 1,843.46	
10			Existing Condensing Unit To Be Removed	EA	1	0%	1	2.000	\$ 125.00	\$ 250.00	\$ -	\$ 250.00	\$ 250.00	
11			Existing Diffuser/Grille To Be Removed	EA	51	0%	51	0.250	\$ 125.00	\$ 31.25	\$ -	\$ 31.25	\$ 1,593.75	
12			Existing Thermostat To Be Removed	EA	3	0%	3	0.250	\$ 125.00	\$ 31.25	\$ -	\$ 31.25	\$ 93.75	
13			Existing Variable Volume To Be Removed	EA	2	0%	2	0.600	\$ 125.00	\$ 75.00	\$ -	\$ 75.00	\$ 150.00	
14			Existing Air Handling Unit To Be Removed	EA	2	0%	2	2.000	\$ 125.00	\$ 250.00	\$ -	\$ 250.00	\$ 500.00	
15			Existing Roof Fan To Be Removed	EA	1	0%	1	0.500	\$ 125.00	\$ 62.50	\$ -	\$ 62.50	\$ 62.50	
SUBTOTAL													\$ 9,768	
HVAC														
FLEXIBLE DUCT														
16	Size Assumed		6" Dia Flexible Duct	LF	22	10%	24	0.060	\$ 125.00	\$ 7.50	\$ 3.22	\$ 10.72	\$ 260.49	
17			8" Dia Flexible Duct	LF	38	10%	42	0.070	\$ 125.00	\$ 8.75	\$ 5.19	\$ 13.94	\$ 583.46	
18			10" Dia Flexible Duct	LF	45	10%	50	0.080	\$ 125.00	\$ 10.00	\$ 8.80	\$ 18.80	\$ 939.08	
REFRIGERANT PIPE														
Type "ACR" Copper Pipe, ASTM B280														
19			3/8" Dia Refrigerant Liquid Pipe	LF	1050	10%	1155	0.068	\$ 125.00	\$ 8.50	\$ 5.88	\$ 14.38	\$ 16,612.22	
20			5/8" Dia Refrigerant Suction Pipe	LF	1050	10%	1155	0.075	\$ 125.00	\$ 9.38	\$ 6.79	\$ 16.17	\$ 18,674.31	
1/2" Thick Unicellular Plastic Foam Insulation														
21			3/8" Dia Refrigerant Liquid Pipe	LF	1050	10%	1155	0.030	\$ 125.00	\$ 3.75	\$ 1.65	\$ 5.40	\$ 6,238.25	
22			5/8" Dia Refrigerant Suction Pipe	LF	1050	10%	1155	0.035	\$ 125.00	\$ 4.38	\$ 1.82	\$ 6.20	\$ 7,156.66	
REFRIGERANT PIPE FITTINGS														
ELBOW														
23	Size Assumed		3/8" Dia Refrigerant Liquid Pipe 90 Deg Elbow	EA	87	0%	87	0.235	\$ 125.00	\$ 29.38	\$ 5.94	\$ 35.32	\$ 3,072.41	
24			5/8" Dia Refrigerant Suction Pipe 90 Deg Elbow	EA	87	0%	87	0.252	\$ 125.00	\$ 31.50	\$ 7.02	\$ 38.52	\$ 3,351.24	
25			3/8" Dia Refrigerant Liquid Pipe 45 Deg Elbow	EA	4	0%	4	0.235	\$ 125.00	\$ 29.38	\$ 6.10	\$ 35.48	\$ 141.90	
26			5/8" Dia Refrigerant Suction Pipe 45 Deg Elbow	EA	4	0%	4	0.252	\$ 125.00	\$ 31.50	\$ 7.23	\$ 38.73	\$ 154.92	
CONDENSATE DRAIN PIPE														
Copper Drainage Tube, (DWV), ASTM B306														
27			3/4" Dia Condensate Pipe	LF	287	10%	316	0.095	\$ 125.00	\$ 11.88	\$ 7.80	\$ 19.68	\$ 6,215.08	
1/2" Thick Unicellular Plastic Foam Insulation														
28			3/4" Dia Condensate Pipe	LF	287	10%	316	0.045	\$ 125.00	\$ 5.63	\$ 2.12	\$ 7.75	\$ 2,446.54	
CONDENSATE DRAIN FITTINGS														
ELBOW														
29	Size Assumed		3/4" Dia Condensate Pipe 90 Deg Elbow	EA	26	0%	26	0.300	\$ 125.00	\$ 37.50	\$ 4.89	\$ 42.39	\$ 1,102.14	
30			TEE	EA	10	0%	10	0.350	\$ 125.00	\$ 43.75	\$ 6.40	\$ 50.15	\$ 501.50	
AIR DEVICES														
31			S2-8 Supply Diffuser, PRICE SCDA, Face Size: 24"x24", Neck Size: 8" Dia, Max	EA	8	0%	8	0.520	\$ 125.00	\$ 65.00	\$ 90.00	\$ 155.00	\$ 1,240.00	
32			S3-10 Supply Diffuser, PRICE SCDA, Face Size: 24"x24", Neck Size: 10" Dia, Max	EA	4	0%	4	0.520	\$ 125.00	\$ 65.00	\$ 90.00	\$ 155.00	\$ 620.00	
33			S4-10 Supply Diffuser, PRICE SCDA, Face Size: 24"x24", Neck Size: 10" Dia, Max	EA	2	0%	2	0.520	\$ 125.00	\$ 65.00	\$ 90.00	\$ 155.00	\$ 310.00	
34			R1-6 Return (Ducted), PRICE PDDR, Face Size: 24"x24", Neck Size: 6" Dia, Max	EA	4	0%	4	0.300	\$ 125.00	\$ 37.50	\$ 58.91	\$ 96.41	\$ 385.64	
35			R2-8 Return (Ducted), PRICE PDDR, Face Size: 24"x24", Neck Size: 8" Dia, Max	EA	2	0%	2	0.300	\$ 125.00	\$ 37.50	\$ 58.91	\$ 96.41	\$ 192.82	
36	Size Assumed		R3-10 Return (Ducted), PRICE PDDR, Face Size: 24"x24", Neck Size: 10" Dia, Max	EA	5	0%	5	0.300	\$ 125.00	\$ 37.50	\$ 58.91	\$ 96.41	\$ 482.05	
37			E1-6X6 Exhaust Grille, PRICE 530/630/730, Max CFM: 70, Face Size: 6"x6", Neck Size: 6" Dia, Max	EA	1	0%	1	0.250	\$ 125.00	\$ 31.25	\$ 28.00	\$ 59.25	\$ 59.25	
38			E2-8X8 Exhaust Grille, PRICE 530/630/730, Max CFM: 200, Face Size: 8"x8", Neck Size: 8" Dia, Max	EA	5	0%	5	0.275	\$ 125.00	\$ 34.38	\$ 36.00	\$ 70.38	\$ 351.88	
39			Exhaust Louver CFM 750 Min 3 SQ FT	EA	1	0%	1	0.650	\$ 125.00	\$ 81.25	\$ 258.00	\$ 339.25	\$ 339.25	
DEDICATED OUTSIDE AIR SYSTEM														
40	M-101, M-151 & P-101		DOAS 1559-01: Packaged Dedicated Outdoor Air System, TRANE OABE036D4	EA	1	0%	1	8.000	\$ 125.00	\$ 1,000.00	\$ 7,019.00	\$ 8,019.00	\$ 8,019.00	
SPLIT DX AIR CONDITIONING INDOOR UNIT														
41			FCU-1559-01: Air Conditioning Unit, MITSUBISHI SLZ-KF09NA, Air Flow: 30	EA	1	0%	1	2.000	\$ 125.00	\$ 250.00	\$ 1,553.00	\$ 1,803.00	\$ 1,803.00	
42			FCU-1559-02: Air Conditioning Unit, MITSUBISHI SVZ-KP12NA, Air Flow: 44	EA	1	0%	1	2.500	\$ 125.00	\$ 312.50	\$ 2,251.75	\$ 2,564.25	\$ 2,564.25	
43			FCU-1559-03: Air Conditioning Unit, MITSUBISHI SLZ-KF09NA, Air Flow: 30	EA	1	0%	1	2.000	\$ 125.00	\$ 250.00	\$ 1,553.00	\$ 1,803.00	\$ 1,803.00	
44			FCU-1559-04: Air Conditioning Unit, MITSUBISHI SLZ-KF09NA, Air Flow: 30	EA	1	0%	1	2.000	\$ 125.00	\$ 250.00	\$ 1,553.00	\$ 1,803.00	\$ 1,803.00	
45			FCU-1559-05: Air Conditioning Unit, MITSUBISHI SLZ-KF09NA, Air Flow: 30	EA	1	0%	1	2.000	\$ 125.00	\$ 250.00	\$ 1,553.00	\$ 1,803.00	\$ 1,803.00	
46			FCU-1559-06: Air Conditioning Unit, MITSUBISHI SLZ-KF09NA, Air Flow: 30	EA	1	0%	1	2.000	\$ 125.00	\$ 250.00	\$ 1,553.00	\$ 1,803.00	\$ 1,803.00	
47			FCU-1559-07: Air Conditioning Unit, MITSUBISHI SEZ-KD09NA4R1, Air Flow: 30	EA	1	0%	1	2.000	\$ 125.00	\$ 250.00	\$ 1,517.50	\$ 1,767.50	\$ 1,767.50	
48			FCU-1559-08: Air Conditioning Unit, MITSUBISHI SEZ-KD09NA4R1, Air Flow: 30	EA	1	0%	1	2.000	\$ 125.00	\$ 250.00	\$ 1,517.50	\$ 1,767.50	\$ 1,767.50	
49		FCU-1559-09: Air Conditioning Unit, MITSUBISHI SLZ-KF09NA, Air Flow: 30	EA	1	0%	1	2.000	\$ 125.00	\$ 250.00	\$ 1,553.00	\$ 1,803.00	\$ 1,803.00		
50		FCU-1559-10: Air Conditioning Unit, MITSUBISHI PVA-A36AA7, Air Flow: 11	EA	1	0%	1	3.500	\$ 125.00	\$ 437.50	\$ 3,502.75	\$ 3,940.25	\$ 3,940.25		
SPLIT DX AIR CONDITIONING OUTDOOR UNIT														
51	Size Assumed		HP-1559-1, MITSUBISHI MXZ-SC42NA2, Cooling Capacity: 40.5 MBH, Heating Capacity: 40.5 MBH, Heating	EA	1	0%	1	6.500	\$ 125.00	\$ 812.50	\$ 5,743.00	\$ 6,555.50	\$ 6,555.50	
52			HP-1559-2, MITSUBISHI MXZ-SC42NA2, Cooling Capacity: 40.5 MBH, Heating Capacity: 40.5 MBH, Heating	EA	1	0%	1	6.500	\$ 125.00	\$ 812.50	\$ 5,743.00	\$ 6,555.50	\$ 6,555.50	
53			HP-1559-3, MITSUBISHI MXZ-SC42NA2, Cooling Capacity: 40.5 MBH, Heating Capacity: 40.5 MBH, Heating	EA	1	0%	1	6.500	\$ 125.00	\$ 812.50	\$ 5,743.00	\$ 6,555.50	\$ 6,555.50	
EXHAUST FAN														
54	Size Assumed		EF-1559-1: Exhaust Fan, GREENHECK CSP-A1050, Fan Type: Inline, Wheel Type: Standard	EA	1	0%	1	1.000	\$ 125.00	\$ 125.00	\$ 1,227.00	\$ 1,352.00	\$ 1,352.00	
55			EF-1559-2: Exhaust Fan, GREENHECK CSP-A1050, Fan Type: Inline, Wheel Type: Standard	EA	1	0%	1	1.000	\$ 125.00	\$ 125.00	\$ 1,227.00	\$ 1,352.00	\$ 1,352.00	
DAMPERS														
56	Size Assumed		6" Dia Volume Damper	EA	16	0%	16	0.350	\$ 125.00	\$ 43.75	\$ 68.50	\$ 112.25	\$ 1,796.00	
57			8" Dia Volume Damper	EA	15	0%	15	0.375	\$ 125.00	\$ 46.88	\$ 80.00	\$ 126.88	\$ 1,903.13	
58			10" Dia Volume Damper	EA	13	0%	13	0.400	\$ 125.00	\$ 50.00	\$ 96.24	\$ 146.24	\$ 1,901.12	
59			8"x8" Motorized Damper	EA	1	0%	1	0.425	\$ 125.00	\$ 53.13	\$ 194.31	\$ 247.44	\$ 247.44	
60			14"x14" Motorized Damper	EA	1	0%	1	0.700	\$ 125.00	\$ 87.50	\$ 508.67	\$ 596.17	\$ 596.17	
DUCT WEIGHT														
61	Size Assumed		Galvanized Sheet Metal Duct	LB	2780	10%	3058	0.040	\$ 125.00	\$ 5.00	\$ 1.75	\$ 6.75	\$ 20,643.43	
62			1-1/2" Thick Factory Applied Cellular Glass Thermal Duct Insulation, ASTM C552	SF	2280	10%	2508	0.012	\$ 125.00	\$ 1.50	\$ 1.60	\$ 3.10	\$ 7,773.90	
MISCELLANEOUS														
63	Size Assumed		B1550 DDC (Direct Digital Control) Panel	EA	1	0%	1	1.600	\$ 125.00	\$ 200.00	\$ 1,190.00	\$ 1,390.00	\$ 1,390.00	
64			Emergency Shutoff Switch Per UFG 4-010-01	EA	1	0%	1	0.320	\$ 125.00	\$ 40.00	\$ 82.59	\$ 122.59	\$ 122.59	
65			Thermostat	EA	10	0%	10	0.360	\$ 125.00	\$ 45.00	\$ 165.00	\$ 210.00	\$ 2,100.00	
66			8" Dia Wall Cap	EA	1	0%	1	0.225	\$ 125.00	\$ 28.13	\$ 28.57	\$ 56.70	\$ 56.70	
67			10"x10" Sleeve Wall Penetration	EA	1	0%	1	0.560	\$ 125.00	\$ 70.00	\$ 224.49	\$ 294.49	\$ 294.49	
68			16"x16" Sleeve Wall Penetration	EA	1	0%	1	0.650	\$ 125.00	\$ 81.25	\$ 419.39	\$ 500.64	\$ 500.64	
PIPE SUPPORTS														
69		Size Assumed		3/4" Dia Adjustable Clevis Hanger	EA	48	0%	48						
70			3/8" Dia Adjustable Clevis Hanger	EA	175	0%	175							
71			5/8" Dia Adjustable Clevis Hanger	EA	175	0%	175							
72			3/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	398	0%	398	0.030	\$ 125.00	\$ 3.75	\$ 4.11	\$ 7.86	\$ 3,128.28	
DUCT SUPPORTS														
73	Size Assumed		3/8" Threaded Rod	EA	202	0%	202	0.030	\$ 125.00	\$ 3.75	\$ 4.11	\$ 7.86	\$ 1,587.72	
74			1" x 22 Ga. Strap	EA	101	0%	101	0.020	\$ 125.00	\$ 2.50	\$ 2.67	\$ 5.17	\$ 523.20	
SUBTOTAL													\$ 167,243	
PROJECTED COST												\$192,011		
OVERHEAD AND PROFIT												\$38,402		

DETAILED BREAKDOWN OF ITEMS													
Prepared for: NDAA: Renovate Buildings 1559/1508 Vandenberg Space Force Base, California Project ID: 29052025 Scope: HVAC USA ESTIMATORS													
												Date:	23-Sep-26
SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MAN/ HOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
INSURANCE												3%	\$5,760
CONTINGENCY												5%	\$9,601
TAX												7.75%	\$7,054
SUGGESTED BID													\$252,828
Notes: 1. Online sources are used for pricing. 2. Prices can vary depending upon field conditions.													

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DETAILED BREAKDOWN OF ITEMS														
Prepared for: NDAA: Renovate Buildings 1559/1508 Vandenberg Space Force Base, California														
Project ID: 29052025														
Scope: HVAC														
												Date:	23-Sep-26	
SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MAN/ HOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST	
GENERAL REQUIREMENTS														
1			Permits	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ -	-	
2			Supervision and Coordination	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 6,000.00	\$ 6,000.00	
3			Submittals and Shop drawings	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 3,000.00	\$ 3,000.00	
4			Final Cleaning	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 2,000.00	\$ 2,000.00	
5			Mobilization Costs	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 7,000.00	\$ 7,000.00	
6			Temporary Control & Facilities	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 4,000.00	\$ 4,000.00	
7			Scaffolding	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ -	-	
SUBTOTAL \$													22,000	
EXISTING CONDITIONS														
DEMOLITION														
8	MD102		Existing Ductwork To Be Removed	LF	998	0%	998	0.035	\$ 125.00	\$ 4.38	\$ -	\$ 4.38	\$ 4,365.90	
9			Existing Air Conditioning Unit To Be Removed	EA	3	0%	3	1.500	\$ 125.00	\$ 187.50	\$ -	\$ 187.50	\$ 562.50	
10			Existing Air Separator To Be Removed	EA	1	0%	1	1.000	\$ 125.00	\$ 125.00	\$ -	\$ 125.00	\$ 125.00	
11			Existing Chiller To Be Removed	EA	2	0%	2	2.000	\$ 125.00	\$ 250.00	\$ -	\$ 250.00	\$ 500.00	
12			Existing Chiller Water Pump To Be Removed	EA	2	0%	2	1.250	\$ 125.00	\$ 156.25	\$ -	\$ 156.25	\$ 312.50	
13			Existing Diffuser/Grille To Be Removed	EA	52	0%	52	0.250	\$ 125.00	\$ 31.25	\$ -	\$ 31.25	\$ 1,625.00	
14			Existing Expansion Tank To Be Removed	EA	1	0%	1	0.400	\$ 125.00	\$ 50.00	\$ -	\$ 50.00	\$ 50.00	
15			Existing Heat Pump To Be Removed	EA	1	0%	1	2.000	\$ 125.00	\$ 250.00	\$ -	\$ 250.00	\$ 250.00	
SUBTOTAL \$													7,791	
HVAC														
FLEXIBLE DUCT														
16			6" Dia Flexible Duct	LF	112	10%	124	0.060	\$ 125.00	\$ 7.50	\$ 3.22	\$ 10.72	\$ 1,326.25	
17			8" Dia Flexible Duct	LF	51	10%	56	0.070	\$ 125.00	\$ 8.75	\$ 5.19	\$ 13.94	\$ 774.67	
18			10" Dia Flexible Duct	LF	39	10%	43	0.080	\$ 125.00	\$ 10.00	\$ 8.80	\$ 18.80	\$ 800.32	
19			12" Dia Flexible Duct	LF	10	10%	11	0.090	\$ 125.00	\$ 11.25	\$ 11.06	\$ 22.31	\$ 256.45	
20			15" Dia Flexible Duct	LF	132	10%	145	0.100	\$ 125.00	\$ 12.50	\$ 13.59	\$ 26.09	\$ 3,785.11	
REFRIGERANT PIPE														
Type "ACR" Copper Pipe, ASTM B280														
21	Size Assumed		3/8" Dia Refrigerant Liquid Pipe	LF	85	10%	94	0.068	\$ 125.00	\$ 8.50	\$ 5.88	\$ 14.38	\$ 1,348.17	
22			5/8" Dia Refrigerant Suction Pipe	LF	85	10%	94	0.075	\$ 125.00	\$ 9.38	\$ 6.79	\$ 16.17	\$ 1,515.52	
1/2" Thick Unicellular Plastic Foam Insulation														
23			3/8" Dia Refrigerant Liquid Pipe	LF	85	10%	94	0.030	\$ 125.00	\$ 3.75	\$ 1.65	\$ 5.40	\$ 506.27	
24			5/8" Dia Refrigerant Suction Pipe	LF	85	10%	94	0.035	\$ 125.00	\$ 4.38	\$ 1.82	\$ 6.20	\$ 580.80	
REFRIGERANT PIPE FITTINGS														
ELBOW														
25			3/8" Dia Refrigerant Liquid Pipe 90 Deg Elbow	EA	17	0%	17	0.235	\$ 125.00	\$ 29.38	\$ 5.94	\$ 35.32	\$ 600.36	
26			5/8" Dia Refrigerant Suction Pipe 90 Deg Elbow	EA	17	0%	17	0.252	\$ 125.00	\$ 31.50	\$ 7.02	\$ 38.52	\$ 654.84	
27			3/8" Dia Refrigerant Liquid Pipe 45 Deg Elbow	EA	2	0%	2	0.235	\$ 125.00	\$ 29.38	\$ 6.10	\$ 35.48	\$ 70.95	
28			5/8" Dia Refrigerant Suction Pipe 45 Deg Elbow	EA	2	0%	2	0.252	\$ 125.00	\$ 31.50	\$ 7.23	\$ 38.73	\$ 77.46	
CONDENSATE DRAIN PIPE														
Copper Drainage Tube, (DWV), ASTM B306														
29			3/4" Dia Condensate Pipe	LF	58	10%	63	0.095	\$ 125.00	\$ 11.88	\$ 7.80	\$ 19.68	\$ 1,248.34	
30			1/2" Thick Unicellular Plastic Foam Insulation											
30			3/4" Dia Condensate Pipe	LF	58	10%	63	0.045	\$ 125.00	\$ 5.63	\$ 2.12	\$ 7.75	\$ 491.40	
CONDENSATE DRAIN FITTINGS														
ELBOW														
31	M-102 & M-152		3/4" Dia Condensate Pipe 90 Deg Elbow	EA	11	0%	11	0.300	\$ 125.00	\$ 37.50	\$ 4.89	\$ 42.39	\$ 466.29	
32			tee	EA	1	0%	1	0.350	\$ 125.00	\$ 43.75	\$ 6.40	\$ 50.15	\$ 50.15	
32			3/4" Dia Condensate Pipe Tee	EA	1	0%	1	0.350	\$ 125.00	\$ 43.75	\$ 6.40	\$ 50.15	\$ 50.15	
AIR DEVICES														
33			S1: Supply Diffuser, PRICE SCDA, Face Size: 24"x24", Neck Size: 6" Dia, Max C	EA	18	0%	18	0.520	\$ 125.00	\$ 65.00	\$ 90.00	\$ 155.00	\$ 2,790.00	
34			S2: Supply Diffuser, PRICE SCDA, Face Size: 24"x24", Neck Size: 8" Dia, Max C	EA	8	0%	8	0.520	\$ 125.00	\$ 65.00	\$ 90.00	\$ 155.00	\$ 1,240.00	
35			S3: Supply Diffuser, PRICE SCDA, Face Size: 24"x24", Neck Size: 10" Dia, Max	EA	5	0%	5	0.520	\$ 125.00	\$ 65.00	\$ 90.00	\$ 155.00	\$ 775.00	
36			S5: Supply Diffuser, PRICE SCDA, Face Size: 24"x24", Neck Size: 12" Dia, Max	EA	2	0%	2	0.520	\$ 125.00	\$ 65.00	\$ 90.00	\$ 155.00	\$ 310.00	
37			S6: Supply Diffuser, PRICE SCDA, Face Size: 24"x24", Neck Size: 15" Dia, Max	EA	20	0%	20	0.520	\$ 125.00	\$ 65.00	\$ 90.00	\$ 155.00	\$ 3,100.00	
38			R1: Return (Ducted), PRICE PDDR, Face Size: 24"x24", Neck Size: 6" Dia, Max	EA	12	0%	12	0.300	\$ 125.00	\$ 37.50	\$ 58.91	\$ 96.41	\$ 1,156.92	
39			R2: Return (Ducted), PRICE PDDR, Face Size: 24"x24", Neck Size: 8" Dia, Max	EA	5	0%	5	0.300	\$ 125.00	\$ 37.50	\$ 58.91	\$ 96.41	\$ 482.05	
40			R3: Return (Ducted), PRICE PDDR, Face Size: 24"x24", Neck Size: 10" Dia, Max	EA	6	0%	6	0.300	\$ 125.00	\$ 37.50	\$ 58.91	\$ 96.41	\$ 578.46	
41			R5: Return (Ducted), PRICE PDDR, Face Size: 24"x24", Neck Size: 15" Dia, Max	EA	21	0%	21	0.300	\$ 125.00	\$ 37.50	\$ 58.91	\$ 96.41	\$ 2,024.61	
AIR HANDLING UNIT														
42			AHU-1508-1: Air Handling Unit, TRANE WHC092H4R0A, Supply Fan: Air Flow	EA	1	0%	1	10.000	\$ 125.00	\$ 1,250.00	\$ 8,550.00	\$ 9,800.00	\$ 9,800.00	
43			AHU-1508-2: Air Handling Unit, TRANE WHJ240A4AS00, Supply Fan: Air Flow	EA	1	0%	1	25.000	\$ 125.00	\$ 3,125.00	\$ 24,690.00	\$ 27,815.00	\$ 27,815.00	
44			AHU-1508-3: Air Handling Unit, TRANE WHJ240A4AS00, Supply Fan: Air Flow	EA	1	0%	1	25.000	\$ 125.00	\$ 3,125.00	\$ 24,690.00	\$ 27,815.00	\$ 27,815.00	
DEDICATED OUTDOOR AIR SYSTEM														
45		DOAS 1508-01: Packaged Dedicated Outdoor Air System, TRANE OABE036D4	EA	1	0%	1	8.000	\$ 125.00	\$ 1,000.00	\$ 7,019.00	\$ 8,019.00	\$ 8,019.00		
SPLIT DX AIR CONDITIONING INDOOR UNIT														
46			FCU-1508-1: Air Conditioning Unit, MITSUBISHI PKA-A24KA7, Air Flow: 775	EA	1	0%	1	3.600	\$ 125.00	\$ 450.00	\$ 1,950.00	\$ 2,400.00	\$ 2,400.00	
47			FCU-1508-2: Air Conditioning Unit, MITSUBISHI PKA-A36KA7, Air Flow: 920	EA	1	0%	1	4.000	\$ 125.00	\$ 500.00	\$ 2,087.80	\$ 2,587.80	\$ 2,587.80	
SPLIT DX AIR CONDITIONING OUTDOOR UNIT														
48			CU-1508-1: Condensing Unit, MITSUBISHI PUY-A24NHA7, Cooling Capacity: 2	EA	1	0%	1	4.600	\$ 125.00	\$ 575.00	\$ 2,925.00	\$ 3,500.00	\$ 3,500.00	
49			CU-1508-2: Condensing Unit, MITSUBISHI PUY-A36NHA7, Cooling Capacity: 3	EA	1	0%	1	5.000	\$ 125.00	\$ 625.00	\$ 3,131.70	\$ 3,756.70	\$ 3,756.70	
ELECTRIC WALL HEATER														
50			EW-1508-1: Electric Wall Heater, QMART GFR2404T2F, Type: Wall Mounted	EA	1	0%	1	1.000	\$ 125.00	\$ 125.00	\$ 446.50	\$ 571.50	\$ 571.50	
DAMPERS														
51			6" Dia Volume Damper	EA	29	0%	29	0.350	\$ 125.00	\$ 43.75	\$ 68.50	\$ 112.25	\$ 3,255.25	
52			8" Dia Volume Damper	EA	16	0%	16	0.375	\$ 125.00	\$ 46.88	\$ 80.00	\$ 126.88	\$ 2,030.00	
53			10" Dia Volume Damper	EA	13	0%	13	0.400	\$ 125.00	\$ 50.00	\$ 96.24	\$ 146.24	\$ 1,901.12	
54			12" Dia Volume Damper	EA	5	0%	5	0.450	\$ 125.00	\$ 56.25	\$ 112.50	\$ 168.75	\$ 843.75	
55			14" Dia Volume Damper	EA	1	0%	1	0.500	\$ 125.00	\$ 62.50	\$ 151.00	\$ 213.50	\$ 213.50	
56			15" Dia Volume Damper	EA	41	0%	41	0.550	\$ 125.00	\$ 68.75	\$ 168.99	\$ 237.74	\$ 9,747.34	
57			16"x16" Volume Damper	EA	1	0%	1	0.675	\$ 125.00	\$ 84.38	\$ 222.49	\$ 306.87	\$ 306.87	
58			18" Dia Volume Damper	EA	3	0%	3	0.750	\$ 125.00	\$ 93.75	\$ 206.23	\$ 299.98	\$ 899.94	
59			22" Dia Volume Damper	EA	1	0%	1	0.850	\$ 125.00	\$ 106.25	\$ 249.00	\$ 355.25	\$ 355.25	
60			22"x22" Volume Damper	EA	1	0%	1	0.850	\$ 125.00	\$ 106.25	\$ 257.71	\$ 363.96	\$ 363.96	
61			24" Dia Volume Damper	EA	1	0%	1	1.000	\$ 125.00	\$ 125.00	\$ 319.00	\$ 444.00	\$ 444.00	
62		28"x28" Volume Damper	EA	1	0%	1	1.250	\$ 125.00	\$ 156.25	\$ 438.36	\$ 594.61	\$ 594.61		
DUCT WEIGHT														
63			Galvanized Sheet Metal Duct	LB	10564	10%	11620	0.040	\$ 125.00	\$ 5.00	\$ 1.75	\$ 6.75	\$ 78,436.60	
64			1-1/2" Thick Factory Applied Cellular Glass Thermal Duct Insulation, ASTM C552	SF	8631	10%	9494	0.012	\$ 125.00	\$ 1.50	\$ 1.60	\$ 3.10	\$ 29,430.55	
MISCELLANEOUS														
65			B1508 DDC (Direct Digital Control) Panel	EA	1	0%	1	1.600	\$ 125.00	\$ 200.00	\$ 1,190.00	\$ 1,390.00	\$ 1,390.00	
66			Emergency Shut-Off Switch	EA	1	0%	1	0.320	\$ 125.00	\$ 40.00	\$ 82.59	\$ 122.59	\$ 122.59	
67			Thermostat	EA	6	0%	6	0.360	\$ 125.00	\$ 45.00	\$ 165.00	\$ 210.00	\$ 1,260.00	
PIPE SUPPORTS														
68			3/4" Dia Adjustable Clevis Hanger	EA	10	0%	10							
69			3/8" Dia Adjustable Clevis Hanger	EA	15	0%	15							
70			5/8" Dia Adjustable Clevis Hanger	EA	15	0%	15							
71			3/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	40	0%	40	0.030	\$ 125.00	\$ 3.75	\$ 4.11	\$ 7.86	\$ 314.40	
DUCT SUPPORTS														
72			3/8" Threaded Rod	EA	354	0%	354	0.030	\$ 125.00	\$ 3.75	\$ 4.11	\$ 7.86	\$ 2,782.44	
73			1" x 22 Ga. Strap	EA	177	0%	177	0.020	\$ 125.00	\$ 2.50	\$ 2.67	\$ 5.17	\$ 915.09	
SUBTOTAL \$													248,883	
OVERHEAD AND PROFIT												PROJECTED COST	\$278,674	
INSURANCE												20%	\$55,735	
												3%	\$8,360	

DETAILED BREAKDOWN OF ITEMS													
Prepared for:		NDAA: Renovate Buildings 1559/1508 Vandenberg Space Force Base, California											
Project ID:		29052025											
Scope:		HVAC											
												Date: 23-Sep-26	
SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MAN/ HOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
CONTINGENCY												5%	\$13,934
TAX												7.75%	\$11,052
SUGGESTED BID													\$367,754
Notes:													
1. Online sources are used for pricing.													
2. Prices can vary depending upon field conditions.													

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BREAKDOWN OF DUCT ITEMS

Prepared for: NDAA: Renovate Buildings 1559/1508 Vandenberg Space Force Base, California
Project ID: 29052025
Scope: HVAC



Date: 23-Sep-26

SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
HVAC					
GALVANIZED SHEET METAL DUCT					
BUILDING 1559					
1	4" Dia Supply Air Duct	LF	10	10%	11
2	6" Dia Supply Air Duct	LF	232	10%	255
3	8" Dia Supply Air Duct	LF	169	10%	185
4	10" Dia Supply Air Duct	LF	118	10%	130
5	12" Dia Supply Air Duct	LF	17	10%	18
6	8"x12" Supply Air Duct	LF	10	10%	11
7	12"x14" Supply Air Duct	LF	18	10%	20
8	14"x14" Supply Air Duct	LF	28	10%	31
9	16"x16" Supply Air Duct	LF	84	10%	93
10	6" Dia Return Air Duct	LF	104	10%	115
11	8" Dia Return Air Duct	LF	35	10%	38
12	10" Dia Return Air Duct	LF	60	10%	66
13	12" Dia Return Air Duct	LF	3	10%	4
14	10"x10" Return Air Duct	LF	24	10%	26
15	14"x14" Return Air Duct	LF	3	10%	4
16	6" Dia Exhaust Air Duct	LF	13	10%	14
17	8" Dia Exhaust Air Duct	LF	55	10%	61
18	8"x8" Exhaust Air Duct	LF	4	10%	5
19	14"x14" Exhaust Air Duct	LF	23	10%	25
BUILDING 1508					
20	6" Dia Supply Air Duct	LF	168	10%	185
21	8" Dia Supply Air Duct	LF	109	10%	120
22	10" Dia Supply Air Duct	LF	100	10%	110
23	12" Dia Supply Air Duct	LF	86	10%	95
24	14" Dia Supply Air Duct	LF	39	10%	43
25	15" Dia Supply Air Duct	LF	82	10%	90
26	18" Dia Supply Air Duct	LF	18	10%	20
27	22" Dia Supply Air Duct	LF	5	10%	6
28	24" Dia Supply Air Duct	LF	10	10%	11
29	14"x14" Supply Air Duct	LF	50	10%	55
30	16"x14" Supply Air Duct	LF	42	10%	46
31	18"x16" Supply Air Duct	LF	24	10%	26
32	20"x20" Supply Air Duct	LF	5	10%	6
33	24"x20" Supply Air Duct	LF	35	10%	39
34	28"x28" Supply Air Duct	LF	16	10%	18
35	38"x32" Supply Air Duct	LF	140	10%	154
36	6" Dia Return Air Duct	LF	133	10%	147
37	8" Dia Return Air Duct	LF	63	10%	69
38	10" Dia Return Air Duct	LF	90	10%	99

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BREAKDOWN OF DUCT ITEMS

Prepared for: NDAA: Renovate Buildings 1559/1508 Vandenberg Space Force Base, California
Project ID: 29052025
Scope: HVAC



Date: 23-Sep-26

SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
39	12" Dia Return Air Duct	LF	103	10%	114
40	14" Dia Return Air Duct	LF	14	10%	15
41	15" Dia Return Air Duct	LF	38	10%	42
42	18" Dia Return Air Duct	LF	8	10%	9
43	14"x14" Return Air Duct	LF	62	10%	68
44	16"x14" Return Air Duct	LF	21	10%	23
45	16"x16" Return Air Duct	LF	32	10%	35
46	18"x16" Return Air Duct	LF	10	10%	11
47	20"x20" Return Air Duct	LF	19	10%	21
48	22"x20" Return Air Duct	LF	10	10%	11
49	22"x22" Return Air Duct	LF	9	10%	10
50	24"x20" Return Air Duct	LF	36	10%	40
51	24"x24" Return Air Duct	LF	57	10%	62
52	38"x32" Return Air Duct	LF	123	10%	135
53	46"x28" Return Air Duct	LF	11	10%	12

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