GENERAL SUMMARY

Prepared for: Construct Transient Unit Maintenance Shelter, Fort Carson, CO
Project ID: 5212026
Scope: HVAC
No. Of Floors: 1
Date: 6-Oct-26

USA ESTIMATORS
+1 (214) 556-2605

BUILDING GSF		6,176	
DIVISION NO	DESCRIPTION	TOTAL DIV. COST	TOTAL DIV. COST (PER SF)
1000	General Requirements	$ 41,200	$
23000	HVAC	$ 257,119	$
TOTAL TRADE COST		$ 298,319	$
OVERHEAD AND PROFIT	20%	$ 59,664	$
INSURANCE	3%	$ 8,950	$
PERFORMANCE BOND	1.5%	$ 4,475	$
CONTINGENCY	5%	$ 14,916	$
TAX	5%	$ 10,531	$
SUGGESTED BID		$ 396,855	$



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DETAILED BREAKDOWN OF ITEMS

Prepared for: Construct Transient Unit Maintenance Shelter, Fort Carson, CO
Project ID: 5212026
Scope: HVAC

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Date: 6-Oct-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
GENERAL REQUIREMENTS													
1			Permits	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 3,000.00	$ 3,000.00
2			Supervision and Coordination	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 22,500.00	$ 22,500.00
3			Submittals and Shop drawings	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
4			Final Cleaning	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 2,500.00	$ 2,500.00
5			Mobilization Costs	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 8,000.00	$ 8,000.00
6			Temporary Control & Facilities	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 3,000.00	$ 3,000.00
7			Scaffolding	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
8			Federal Compliance (Cert Payroll)	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 2,200.00	$ 2,200.00
												SUBTOTAL	**$ 41,200**
HVAC													
			CONDENSATE DRAIN PIPE										
			Type "L" Copper Tubing With Fittings										
9			3/4" Dia Condensate Drain Pipe	LF	10	10%	11	0.08	$ 74.00	$ 5.92	$ 5.50	$ 11.42	$ 125.62
		Assumed	**1/2" Thick Fiberglass Pipe Insulation**										
10			3/4" Dia Condensate Drain Pipe	LF	10	10%	11	0.05	$ 74.00	$ 3.70	$ 2.80	$ 6.50	$ 71.50
			CONDENSATE DRAIN FITTINGS										
			ELBOW										
11			3/4" Dia Condensate Drain Pipe 90 Deg Elbow	EA	2	0%	2	0.35	$ 74.00	$ 25.90	$ 6.50	$ 32.40	$ 64.80
			NATURAL GAS PIPE (BELOW GRADE)										
		Assumed	**Polyethylene Pipe With Fittings**										
12			3" Dia Natural Gas Pipe	LF	4	10%	4	0.12	$ 74.00	$ 8.88	$ 7.50	$ 16.38	$ 72.07
			NATURAL GAS PIPE FITTINGS										
			ELBOW										
13			3" Dia Natural Gas Pipe 90 Deg Elbow	EA	1	0%	1	0.50	$ 74.00	$ 37.00	$ 18.00	$ 55.00	$ 55.00
			NATURAL GAS PIPE (ABOVE GRADE)										
		Assumed	**Schedule 40 Black Steel Pipe With Fittings**										
14			1" Dia Natural Gas Pipe	LF	54	10%	59	0.12	$ 74.00	$ 8.88	$ 8.50	$ 17.38	$ 1,030.84
15			1-1/4" Dia Natural Gas Pipe	LF	109	10%	120	0.14	$ 74.00	$ 10.36	$ 10.50	$ 20.86	$ 2,495.38
16			2" Dia Natural Gas Pipe	LF	45	10%	49	0.18	$ 74.00	$ 13.32	$ 14.50	$ 27.82	$ 1,363.01
17			2-1/2" Dia Natural Gas Pipe	LF	29	10%	32	0.22	$ 74.00	$ 16.28	$ 18.50	$ 34.78	$ 1,123.25
18			3" Dia Natural Gas Pipe	LF	15	10%	16	0.27	$ 74.00	$ 19.98	$ 23.00	$ 42.98	$ 706.81
			NATURAL GAS PIPE FITTINGS										
			ELBOW										
19			1-1/4" Dia Natural Gas Pipe 90 Deg Elbow	EA	2	0%	2	0.55	$ 74.00	$ 40.70	$ 12.00	$ 52.70	$ 105.40
20			2" Dia Natural Gas Pipe 90 Deg Elbow	EA	2	0%	2	0.70	$ 74.00	$ 51.80	$ 22.00	$ 73.80	$ 147.60
21			2-1/2" Dia Natural Gas Pipe 90 Deg Elbow	EA	5	0%	5	0.85	$ 74.00	$ 62.90	$ 32.00	$ 94.90	$ 474.50
22			3" Dia Natural Gas Pipe 90 Deg Elbow	EA	1	0%	1	1.00	$ 74.00	$ 74.00	$ 48.00	$ 122.00	$ 122.00
			TEE										
23			1" Dia Natural Gas Pipe Tee	EA	2	0%	2	0.70	$ 74.00	$ 51.80	$ 18.00	$ 69.80	$ 139.60
24			2" Dia Natural Gas Pipe Tee	EA	2	0%	2	0.95	$ 74.00	$ 70.30	$ 28.00	$ 98.30	$ 196.60
25			1-1/4" / 1" Dia Natural Gas Pipe Tee	EA	4	0%	4	0.80	$ 74.00	$ 59.20	$ 22.00	$ 81.20	$ 324.80
26			3" / 2" Dia Natural Gas Pipe Tee	EA	1	0%	1	1.10	$ 74.00	$ 81.40	$ 55.00	$ 136.40	$ 136.40
27			3" / 2-1/2" Dia Natural Gas Pipe Tee	EA	1	0%	1	1.15	$ 74.00	$ 85.10	$ 60.00	$ 145.10	$ 145.10
			REDUCER										
28			1-1/4" / 1" Dia Natural Gas Pipe Reducer	EA	2	0%	2	0.50	$ 74.00	$ 37.00	$ 14.00	$ 51.00	$ 102.00
29			2" / 1-1/4" Dia Natural Gas Pipe Reducer	EA	2	0%	2	0.60	$ 74.00	$ 44.40	$ 18.00	$ 62.40	$ 124.80
30			3" / 2" Dia Natural Gas Pipe Reducer	EA	1	0%	1	0.85	$ 74.00	$ 62.90	$ 36.00	$ 98.90	$ 98.90
			AIR DEVICES										
31			HCD-1: High Capacity Drum Louver, PRICE HCD, 24"x10" Neck Size, 24"x10" Face Size, 1450 CFM, Frame: Duct Mounted, Material: Aluminum, Finish: Standard White. 1. Equivalent Substitution Acceptable Upon Owner Approval.	EA	8	0%	8	2.25	$ 74.00	$ 166.50	$ 285.00	$ 451.50	$ 3,612.00
32			RECG-1: Round EGG Crate Grille, PRICE RECG, 16" Dia Neck Size, 16" Dia Face Size, Frame: Duct Mounted, Material: Aluminum, Finish: Standard White. 1. Equivalent Substitution Acceptable Upon Owner Approval.	EA	8	0%	8	2.25	$ 74.00	$ 166.50	$ 165.00	$ 331.50	$ 2,652.00
			INTAKE HOOD										
33			IH-1: Intake Hood, GREENHECK FGI-12x18, 12" x 18", 1400 CFM, 0.205 In. WG, Motorized Damper Notes: 1: Equivalent Substitution Permitted Upon Owner Approval	EA	1	0%	1	3.15	$ 74.00	$ 233.10	$ 1,450.00	$ 1,683.10	$ 1,683.10
34			IH-2: Intake Hood, GREENHECK FGI-12x18, 12" x 18", 1400 CFM, 0.205 In. WG, Motorized Damper Notes: 1: Equivalent Substitution Permitted Upon Owner Approval	EA	1	0%	1	3.15	$ 74.00	$ 233.10	$ 1,450.00	$ 1,683.10	$ 1,683.10
			MAKEUP AIR UNIT										
35			MAU-1: Makeup Air Unit, GREENHECK DGX-P225-H35-D1 , Heating Type: DIRECT-FIRED, Total Volume: 11500 CFM, ESP: 0.5 IN. WG., Total SP: 1.262 IN. WG., RPM: 1037, Operating Power: 1.84 HP, Motor: 3 HP, Qty: 2, Fan Type: BACKWARD INCLINED, Drive Type: DIRECT, Speed Control: VFD, Fuel Type: NG, Performance: EAT 1.6°F / LAT 75.2°F, Capacity: 800 MBH IN. / 736 MBH OUT., Temperature Rise: 73.6°F MAX., Turn-Down Ratio: 30:1, Electrical Rating: 208/60/3, MCA: 27 A, MOP: 30 A, Unit Orientation: HORIZONTAL, Unit Config.: VARIABLE VOLUME 100% OA. Notes: 1,2,3,4. Note 1: Equivalent Substitution Permitted Upon Owner Approval. 2: Basis of Design: GREENHECK Model DGX-P225-H35-D1. 3: Provide and Install Manufacturer Recommended Controller on Unit. Interface and Interlock Unit to Exhaust System. 4: Provide Factory Installed Deluxe Programmable Thermostat.	EA	1	0%	1	64.00	$ 74.00	$ 4,736.00	$ 64,500.00	$ 69,236.00	$ 69,236.00
			GAS FIRED INFRARED HEATER										
36			IRH-1: Gas Fired Infrared Heater, BIG ASS FANS IRH-80, Infrared Bar Heater, Natural Gas, 80,000 BTUH, MIN WC: 4.6", MAX WC: 14", 120V/1PH, T-STAT Control. 1.) Equivalent substitution permitted upon owner approval. 2.) Provide one manufacturer's recommended thermostat for each infrared bar heater and tie each, single thermostat into a single infrared bar heater located in Rm. 101 - Tums.	EA	1	0%	1	4.00	$ 74.00	$ 296.00	$ 1,450.00	$ 1,746.00	$ 1,746.00
37			IRH-2: Gas Fired Infrared Heater, BIG ASS FANS IRH-80, Infrared Bar Heater, Natural Gas, 80,000 BTUH, MIN WC: 4.6", MAX WC: 14", 120V/1PH, T-STAT Control. 1.) Equivalent substitution permitted upon owner approval. 2.) Provide one manufacturer's recommended thermostat for each infrared bar heater and tie each, single thermostat into a single infrared bar heater located in Rm. 101 - Tums.	EA	1	0%	1	4.00	$ 74.00	$ 296.00	$ 1,450.00	$ 1,746.00	$ 1,746.00
38			IRH-3: Gas Fired Infrared Heater, BIG ASS FANS IRH-80, Infrared Bar Heater, Natural Gas, 80,000 BTUH, MIN WC: 4.6", MAX WC: 14", 120V/1PH, T-STAT Control. 1.) Equivalent substitution permitted upon owner approval. 2.) Provide one manufacturer's recommended thermostat for each infrared bar heater and tie each, single thermostat into a single infrared bar heater located in Rm. 101 - Tums.	EA	1	0%	1	4.00	$ 74.00	$ 296.00	$ 1,450.00	$ 1,746.00	$ 1,746.00
39			IRH-4: Gas Fired Infrared Heater, BIG ASS FANS IRH-80, Infrared Bar Heater, Natural Gas, 80,000 BTUH, MIN WC: 4.6", MAX WC: 14", 120V/1PH, T-STAT Control. 1.) Equivalent substitution permitted upon owner approval. 2.) Provide one manufacturer's recommended thermostat for each infrared bar heater and tie each, single thermostat into a single infrared bar heater located in Rm. 101 - Tums.	EA	1	0%	1	4.00	$ 74.00	$ 296.00	$ 1,450.00	$ 1,746.00	$ 1,746.00
40			IRH-5: Gas Fired Infrared Heater, BIG ASS FANS IRH-80, Infrared Bar Heater, Natural Gas, 80,000 BTUH, MIN WC: 4.6", MAX WC: 14", 120V/1PH, T-STAT Control. 1.) Equivalent substitution permitted upon owner approval. 2.) Provide one manufacturer's recommended thermostat for each infrared bar heater and tie each, single thermostat into a single infrared bar heater located in Rm. 101 - Tums.	EA	1	0%	1	4.00	$ 74.00	$ 296.00	$ 1,450.00	$ 1,746.00	$ 1,746.00
41			IRH-6: Gas Fired Infrared Heater, BIG ASS FANS IRH-80, Infrared Bar Heater, Natural Gas, 80,000 BTUH, MIN WC: 4.6", MAX WC: 14", 120V/1PH, T-STAT Control. 1.) Equivalent substitution permitted upon owner approval. 2.) Provide one manufacturer's recommended thermostat for each infrared bar heater and tie each, single thermostat into a single infrared bar heater located in Rm. 101 - Tums.	EA	1	0%	1	4.00	$ 74.00	$ 296.00	$ 1,450.00	$ 1,746.00	$ 1,746.00
			ELECTRIC UNIT HEATER										
42			EUH-1: Electrical Unit Heater, REZNOR EHA-TSL-1, CFM: 160, Capacity: 1,500 W / 5,125 BTUH / 1.0 KW, Unit Size: 120 VOLT / 1 PHASE, Fan Power: 0.5 HP, Fan Motor: 120 VOLT / 1 PHASE, Control: T-STAT, Sound Level: 1 dBA. Note 1: Equivalent Substitution Permitted Upon Owner Approval.	EA	1	0%	1	3.50	$ 74.00	$ 259.00	$ 285.00	$ 544.00	$ 544.00

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Project ID: 5212026
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Date: 6-Oct-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
43			EUH-2: Electrical Unit Heater, REZNOR EHA-TSL-1, CFM: 160, Capacity: 1,500 W / 5,125 BTUH / 1.0 KW, Unit Size: 120 VOLT / 1 PHASE, Fan Power: 0.5 HP, Fan Motor: 120 VOLT / 1 PHASE, Control: T-STAT, Sound Level: 1 dBA. Note 1: Equivalent Substitution Permitted Upon Owner Approval.	EA	1	0%	1	3.50	$ 74.00	$ 259.00	$ 320.00	$ 579.00	$ 579.00
			FANS										
44			EF-1: Exhaust Fan, BROAN L100, Air Flow: 125 CFM, 0.1 IN TSP, Type: Ceiling Mounted, Galvanized Steel, Drive: Direct, 87 W, 120 V,1 PH, 640 RPM, Speed Control: Constant, Occupancy Sensor. 1. Equivalent Substitution Acceptable Upon Owner Approval. 2. Provide Gravity Backdraft Damper At Exhaust Fan Outlet.	EA	1	0%	1	6.00	$ 74.00	$ 444.00	$ 2,200.00	$ 2,644.00	$ 2,644.00
45	MH101, MP101 & MI501		VEF-1: Vehicle Fume Exhaust Fan, GREENHECK FJ-22-B6, Air Flow: 125 CFM, 1.5 IN TSP, Type: Centrifugal Blower Mounted, ODP, Weather hood With Bird Screen: YES, Drive: Direct, 1.89 BHP, 230 V, 3 PH, 1170 RPM, Speed Control: Variable , Status Switch. 1. Equivalent Substitution Acceptable Upon Owner Approval. 2. Provide Gravity Backdraft Damper At Exhaust Fan Outlet.	EA	1	0%	1	6.00	$ 74.00	$ 444.00	$ 1,850.00	$ 2,294.00	$ 2,294.00
46			GEF-1: General Exhaust Fan, GREENHECK CUE-240HP-B, Air Flow: 4280 CFM, 1.62 IN TSP, Type: Roof Upblast Mounted, ODP, Weather hood With Bird Screen: YES, Drive: Direct, 1.88 BHP, 3 HP, 208 V, 3 PH, 1140 RPM, 10.6 FLA, Speed Control: Variable, Occupancy Sensor. 1. Equivalent Substitution Acceptable Upon Owner Approval. 2. Provide Gravity Backdraft Damper At Exhaust Fan Outlet.	EA	1	0%	1	5.00	$ 74.00	$ 370.00	$ 1,450.00	$ 1,820.00	$ 1,820.00
47			GEF-2: General Exhaust Fan, GREENHECK CUE-240HP-B, Air Flow: 4280 CFM, 1.62 IN TSP, Type: Roof Upblast Mounted, ODP, Weather hood With Bird Screen: YES, Drive: Direct, 1.88 BHP, 3 HP, 208 V, 3 PH, 1140 RPM, 10.6 FLA, Speed Control: Variable, Gas Sensor. 1. Equivalent Substitution Acceptable Upon Owner Approval. 2. Provide Gravity Backdraft Damper At Exhaust Fan Outlet.	EA	1	0%	1	4.00	$ 74.00	$ 296.00	$ 950.00	$ 1,246.00	$ 1,246.00
48			BAF-1: Fan, BIG ASS FANS POWERFOIL X4 (14'-0" Diameter, PPX4-14 PLUS), Type: Overhead Mounted, Drive: Direct, 1.9 HP, 208 V, 3 PH, Speed Control: Variable, Speed Controller. 1. Equivalent Substitution Acceptable Upon Owner Approval. 2. Provide Multi-Speed Controller To Control Fan Speed.	EA	1	0%	1	3.00	$ 74.00	$ 222.00	$ 380.00	$ 602.00	$ 602.00
			VEHICLE EXHAUST SOURCE CAPTURE SYSTEM										
49			MDHR-1: Vehicle Exhaust Source Capture System, MONOXIVENT MODEL 9000-W-TMTR, Hose Dia.: 8 IN., Max Hose Capacity on Drum: 24 FT, Drum Dia.: 18 IN., Drum Width: 32 IN., Flow: 1400 CFM, SP: 6 IN. WG., Fan RPM: 2657, Oper. Power: 2.62 HP, FEG: 63, FEI: 1.12, Motor Size: 3 HP, Motor RPM: 1725, Enclosure: ODP, Electrical: 208/60/3, FLA: 4.8 A, Notes: 1.) Equivalent Substitution Permitted Upon Owner Approval. 2.) Basis Of Design: MONOXIVENT MODEL 9000-W-TMTR With Internal Fan Model Mha-90. 3.) Provide And Install Manufacturers Recommended Hand Damper On Each Exhaust Hose Inlet.	EA	1	0%	1	14.00	$ 74.00	$ 1,036.00	$ 18,500.00	$ 19,536.00	$ 19,536.00
50			MDHR-2: Vehicle Exhaust Source Capture System, MONOXIVENT MODEL 9000-W-TMTR, Hose Dia.: 8 IN., Max Hose Capacity on Drum: 24 FT, Drum Dia.: 18 IN., Drum Width: 32 IN., Flow: 1400 CFM, SP: 6 IN. WG., Fan RPM: 2657, Oper. Power: 2.62 HP, FEG: 63, FEI: 1.12, Motor Size: 3 HP, Motor RPM: 1725, Enclosure: ODP, Electrical: 208/60/3, FLA: 4.8 A, Notes: 1.) Equivalent Substitution Permitted Upon Owner Approval. 2.) Basis Of Design: MONOXIVENT MODEL 9000-W-TMTR With Internal Fan Model Mha-90. 3.) Provide And Install Manufacturers Recommended Hand Damper On Each Exhaust Hose Inlet.	EA	1	0%	1	16.00	$ 74.00	$ 1,184.00	$ 21,500.00	$ 22,684.00	$ 22,684.00
51			MDHR-3: Vehicle Exhaust Source Capture System, MONOXIVENT MODEL 9000-W-TMTR, Hose Dia.: 8 IN., Max Hose Capacity on Drum: 24 FT, Drum Dia.: 18 IN., Drum Width: 32 IN., Flow: 1400 CFM, SP: 6 IN. WG., Fan RPM: 2657, Oper. Power: 2.62 HP, FEG: 63, FEI: 1.12, Motor Size: 3 HP, Motor RPM: 1725, Enclosure: ODP, Electrical: 208/60/3, FLA: 4.8 A, Notes: 1.) Equivalent Substitution Permitted Upon Owner Approval. 2.) Basis Of Design: MONOXIVENT MODEL 9000-W-TMTR With Internal Fan Model Mha-90. 3.) Provide And Install Manufacturers Recommended Hand Damper On Each Exhaust Hose Inlet.	EA	1	0%	1	18.00	$ 74.00	$ 1,332.00	$ 24,500.00	$ 25,832.00	$ 25,832.00
52			MDHR-4: Vehicle Exhaust Source Capture System, MONOXIVENT MODEL 9000-W-TMTR, Hose Dia.: 8 IN., Max Hose Capacity on Drum: 24 FT, Drum Dia.: 18 IN., Drum Width: 32 IN., Flow: 1400 CFM, SP: 6 IN. WG., Fan RPM: 2657, Oper. Power: 2.62 HP, FEG: 63, FEI: 1.12, Motor Size: 3 HP, Motor RPM: 1725, Enclosure: ODP, Electrical: 208/60/3, FLA: 4.8 A, Notes: 1.) Equivalent Substitution Permitted Upon Owner Approval. 2.) Basis Of Design: MONOXIVENT MODEL 9000-W-TMTR With Internal Fan Model Mha-90. 3.) Provide And Install Manufacturers Recommended Hand Damper On Each Exhaust Hose Inlet.	EA	1	0%	1	20.00	$ 74.00	$ 1,480.00	$ 28,500.00	$ 29,980.00	$ 29,980.00
			PACKAGED THROUGH-WALL HEAT PUMP AIR CONDITIONER										
53			PTAC-1: Packaged Through-Wall Heat Pump Air Conditioner (PTAC), G.E. ZONELINE AZVS15DMWXAA, Nominal Airflow: 525 CFM (HIGH) / 250 CFM (LOW), Outside Airflow: 50 CFM, Efficiency: 10.7 EER, Cooling Capacity: 15,000 BTUH, Heat Pump Capacity: 14,000 BTUH, Heat Pump Efficiency: 3.4 COP, Electric Heat Capacity: 8,100 BTUH, Total Watts: 2,410, Heater Watts: 2,400, Total Amps: 10.5, MCA: 15, Electrical: 208 VOLT / 1 PHASE, Speed Control: HIGH-SPEED / LOW-SPEED. Notes: 1,2,3,4. Note 1: Equivalent Substitution Permitted Upon Owner Approval. 2: Basis of Design: G.E. ZONELINE AZVS15DMWXAA, Direct Powered. 3: Provide Manufacturer's Recommended Thermostat to Control Unit. Install 4'-0" AFF on Wall in RM. 103 - OFFICE. 4: PTAC Must Maintain 72°F - 80°F, 24 Hours Per Day, 365 Days a Year. Ensure PTAC Performance Meets UFC 3-580-1 Sections 2-3.1.3.3 and 2-3.1.3.4.	EA	1	0%	1	5.00	$ 74.00	$ 370.00	$ 1,850.00	$ 2,220.00	$ 2,220.00
			DAMPERS										
54			26" Dia Class I Motorized Damper	EA	1	0%	1	0.75	$ 74.00	$ 55.50	$ 95.00	$ 150.50	$ 150.50
			GAS ENTRANCE DETAILS										
55			3" Dia Gas Shutoff Valve	EA	3	0%	3	1.20	$ 74.00	$ 88.80	$ 285.00	$ 373.80	$ 1,121.40
56			3" Dia Gas Union	EA	2	0%	2	0.50	$ 74.00	$ 37.00	$ 65.00	$ 102.00	$ 204.00
57			3" Dia Emergency Pipe Caped	EA	1	0%	1	0.50	$ 74.00	$ 37.00	$ 45.00	$ 82.00	$ 82.00
58			3" Dia Pipe Flange	EA	4	0%	4	0.75	$ 74.00	$ 55.50	$ 85.00	$ 140.50	$ 562.00
59			3" Dia Gas Seismic Shutoff Valve	EA	1	0%	1	1.50	$ 74.00	$ 111.00	$ 425.00	$ 536.00	$ 536.00
60			3" Dia Long Gas Dirt Leg, 6" Long With Cap	EA	1	0%	1	1.00	$ 74.00	$ 74.00	$ 115.00	$ 189.00	$ 189.00
61			6" Thick Concrete Pad With Base Mounted	EA	1	0%	1	4.00	$ 74.00	$ 296.00	$ 425.00	$ 721.00	$ 721.00
			GAS PIPING ACCESSORIES										
62			1" Dia Pipe End Cap	EA	2	0%	2	0.30	$ 74.00	$ 22.20	$ 12.00	$ 34.20	$ 68.40
63			1" Dia Gas Shutoff Valve	EA	6	0%	6	0.50	$ 74.00	$ 37.00	$ 65.00	$ 102.00	$ 612.00
64			1-1/4" Dia Gas Shutoff Valve	EA	2	0%	2	0.60	$ 74.00	$ 44.40	$ 85.00	$ 129.40	$ 258.80
65			2" Dia Drip Leg	EA	2	0%	2	0.75	$ 74.00	$ 55.50	$ 55.00	$ 110.50	$ 221.00
66			2" Dia Gas Shutoff Valve	EA	2	0%	2	0.85	$ 74.00	$ 62.90	$ 145.00	$ 207.90	$ 415.80
			DUCT WEIGHT										
67			Galvanized Sheet Metal Duct **(All Ductwork)**	LB	2870	10%	3158	0.05	$ 74.00	$ 3.70	$ 3.15	$ 6.85	$ 21,629.14
			DUCT INSULATION										
68		**Assumed**	1-1/2" Thick Fiberglass Duct Insulation **(All Supply & Outside Air Duct)**	SF	1088	10%	1197	0.04	$ 74.00	$ 2.96	$ 2.65	$ 5.61	$ 6,717.07
			MISCELLANEOUS										
69		**Assumed**	4" Dia Wire Mesh Screen, 1/2" Thick	EA	1	0%	1	0.30	$ 74.00	$ 22.20	$ 22.00	$ 44.20	$ 44.20
70		**Assumed**	6" Dia Wire Mesh Screen, 1/2" Thick	EA	2	0%	2	0.35	$ 74.00	$ 25.90	$ 32.00	$ 57.90	$ 115.80
71			T: Thermostat	EA	9	0%	9	0.95	$ 74.00	$ 70.45	$ 110.20	$ 180.65	$ 1,625.83
72			AT NOX: Nitrogen Dioxide Sensor And Transmitter	EA	2	0%	2	1.50	$ 74.00	$ 111.00	$ 925.00	$ 1,036.00	$ 2,072.00
73			AT CO: Carbon Monoxide Sensor And Transmitter	EA	2	0%	2	1.50	$ 74.00	$ 111.00	$ 825.00	$ 936.00	$ 1,872.00
74			BAS Control Station	EA	1	0%	1	8.00	$ 74.00	$ 592.00	$ 4,250.00	$ 4,842.00	$ 4,842.00
75			3" Dia Gas Meter	EA	1	0%	1	2.00	$ 74.00	$ 148.00	$ 1,450.00	$ 1,598.00	$ 1,598.00
76			3" Dia Gas Regulator	EA	1	0%	1	2.00	$ 74.00	$ 148.00	$ 1,250.00	$ 1,398.00	$ 1,398.00
			CONDENSATE DRAIN EQUIPENT CONNECTION DETAILS										
77			3/4" Dia P-Trap	EA	1	0%	1	0.40	$ 74.00	$ 29.60	$ 22.00	$ 51.60	$ 51.60
78			3/4" Dia Cleanout	EA	1	0%	1	0.30	$ 74.00	$ 22.20	$ 18.00	$ 40.20	$ 40.20
79			3/4" Dia Dielectric Union Fitting	EA	1	0%	1	0.40	$ 74.00	$ 29.60	$ 24.00	$ 53.60	$ 53.60
80			Splash Block	EA	1	0%	1	0.50	$ 74.00	$ 37.00	$ 28.00	$ 65.00	$ 65.00
			PIPE SUPPORTS										
81			3/4" Dia Adjustable Clevis Hanger	EA	2	0%	2						
82			1" Dia Adjustable Clevis Hanger	EA	9	0%	9						
83			1-1/4" Dia Adjustable Clevis Hanger	EA	18	0%	18						
84			2" Dia Adjustable Clevis Hanger	EA	4	0%	4						
85			2-1/2" Dia Adjustable Clevis Hanger	EA	3	0%	3						
86			3" Dia Adjustable Clevis Hanger	EA	1	0%	1						
87			3/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	29	0%	29	0.05	$ 74.00	$ 3.70	$ 2.50	$ 6.20	$ 178.43
88			5/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	9	0%	9	0.07	$ 74.00	$ 4.81	$ 4.25	$ 9.06	$ 80.50
			DUCT SUPPORTS										
89			3/8" Threaded Rod	EA	110	0%	110	0.05	$ 74.00	$ 3.70	$ 2.50	$ 6.20	$ 682.00
90			1" x 22 Ga. Strap	EA	55	0%	55	0.05	$ 74.00	$ 3.70	$ 1.85	$ 5.55	$ 305.25
			TRENCHING & BACKFILLING										
91			Excavation & Backfilling (3' Deep x 1' Wide Trench) Including All Labor and Material/Equipment	CFT	12	0%	12	0.04	$ 74.00	$ 2.96	$ 1.85	$ 4.81	$ 57.72
												SUBTOTAL	$ 257,119
												PROJECTED COST	$298,319

DETAILED BREAKDOWN OF ITEMS

Prepared for: Construct Transient Unit Maintenance Shelter, Fort Carson, CO
Project ID: 5212026
Scope: HVAC

USA ESTIMATORS
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Date: 6-Oct-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
OVERHEAD AND PROFIT												20.0%	$59,664
INSURANCE												3.0%	$8,950
PERFORMANCE BOND												1.5%	$4,475
CONTINGENCY												5.0%	$14,916
TAX												4.9%	$10,531
SUGGESTED BID													$396,855

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: Construct Transient Unit Maintenance Shelter, Fort Carson, CO
Project ID: 5212026
Scope: HVAC

USA ESTIMATORS
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Date: 6-Oct-26

SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
	HVAC				
	GALVANIZED SHEET METAL DUCT				
1	22" Dia Supply Air Duct	LF	11	10%	12
2	34" Dia Supply Air Duct	LF	50	10%	54
3	30"x38" Supply Air Duct	LF	20	10%	22
4	30"x45" Supply Air Duct	LF	2	10%	3
5	38"x30" Supply Air Duct	LF	9	10%	10
6	3" Dia Exhaust Air Duct (CE)	LF	28	10%	31
7	4" Dia Exhaust Air Duct (CE)	LF	122	10%	134
8	6" Dia Exhaust Air Duct (CE)	LF	8	10%	9
9	16" Dia Exhaust Air Duct	LF	138	10%	152
10	20" Dia Exhaust Air Duct	LF	35	10%	38
11	26" Dia Exhaust Air Duct	LF	31	10%	35
12	4" Dia Toilet Exhaust Air Duct	LF	5	10%	5
13	8" Dia Vehicle Exhaust Air Duct	LF	16	10%	17
14	12" Dia Vehicle Exhaust Air Duct	LF	26	10%	29
15	16" Dia Vehicle Exhaust Air Duct	LF	30	10%	32
16	30"x38" Outside Air Duct	LF	20	10%	22
	TOTAL				

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