

Executive Order G-70-70-AC

Exhibit 3

Specifications for the Healy System with Model 100 Jet Pumps

Drawings of typical installations of Healy vapor recovery systems with Model 100 jet pumps are shown in Figures 3-A, 3-B, 3-C, 3-D, 3-E, 3-F and 3-G

Nozzles

1. Model 200 nozzles are required with Model 100 systems. (Model 200(X) and Model 400 nozzles may not be used.)
2. Leaded and unleaded spouts are interchangeable.
3. The nozzle must shut off at a vacuum of -10 inches water column or less and at a pressure of +10 inches water column or greater.
4. Flow rate is limited to 10 gallons or less per minute.
5. The normal operating range in the nozzle boot is -1/4 inch water column to zero (atmospheric pressure). Readings taken during a fueling of at least ten gallons, excluding the first gallon and the last gallon dispensed, should be relatively stable. Fluctuations (except during the first or last gallon) indicate a defective nozzle. A vacuum of -1/2 inch or more, or a pressure of 1/4 inch or more, indicate a defective nozzle or system. (Note: vacuum or pressure levels outside of the specified range may occur when properly functioning equipment is affected by the following conditions. Gasoline dispensed into a vehicle fuel tank which is significantly warmer than the dispensed fuel may cause a vacuum of several inches. Conversely, gasoline dispensed into a vehicle tank which is significantly cooler than the dispensed fuel may temporarily cause pressure as high as 1/2 inch water column. The effects of temperature differential will be most pronounced at the beginning of the fueling operation and tend to gradually disappear toward the end of the fueling operation.)

Model 100 Jet Pump

1. A single Model 100 jet pump may not be connected to more than one vapor/liquid hose where more than one hose can be dispensing gasoline simultaneously.
2. Gasoline that flows through the jet pump and components of the jet pump must first be strained by the dispenser filter or by a filter approved by the manufacturer.
3. The Model 100 jet pumps will be set to -70" to -80" water column at the factory with zero vapor flow, and will drop to -15" to -30" when the gasoline nozzle vapor valve opens and vapor flow begins.

Coaxial Hose

1. The length of the coaxial hose shall not exceed 13 feet.
2. A swivel is required on the nozzle end of the coaxial hose. A swivel on the dispenser end of the coaxial hose is optional.

Model 143 Control Valve

1. The Healy Model 143 control valve is required on systems installed which utilize a turbine pump. Systems which utilize a suction pump do not require the Model 143 control valve.

Vapor Line

1. The vapor line connecting the Model 100 jet pump with the coaxial hose adapter shall consist of durable material listed for use with gasoline. It shall be no less than 3/8 inch inside diameter and shall be installed unobstructed.
2. The vapor tube at the top of each side of a multi-product dispenser must be manifolded such that liquid that is taken from either vapor hose cannot enter the vapor path of another hose. The vapor tube extending from the top to the bottom of a dispenser must be 5/8 inch or greater inside diameter.
3. The vapor tube from the bottom of the 5/8 inch or greater line to the jet pump shall be 3/8 inch inside diameter.
4. All vapor return lines must be sloped 1/8 inch per foot minimum. All vapor return lines must be sized to freely drain up to 2 gallons per minute from each jet pump. The vapor return lines are designed to carry liquid product and secondary containment may be required.
5. The riser must be 16 inches or longer and have an inside diameter of no less than 3/4 inch. One-inch inside diameter riser is required with multi-product dispensers. Locate the 1-inch riser with double swing connection to the 2-inch run for best mounting position inside a multi-product dispenser. Allow for 1/2-inch outside diameter copper gasoline tie-in to the regular or lowest octane riser. When a swing joint is used in a riser containing a shear connection, the riser must be rigidly supported.
6. All vapor return and vent piping shall be provided with swing joints at each tank connection, and at the base of the vent riser where it fastens to a building or other structure.

Tank Vents

1. Vent pipes shall be adequately supported throughout their length and when they are supporting weights in addition to their own, additional supports may be required; anchor to building or other structure.
2. Tank vent pipes shall terminate into the open atmosphere and the vent outlet shall be not less than 12 feet above the adjacent ground level.

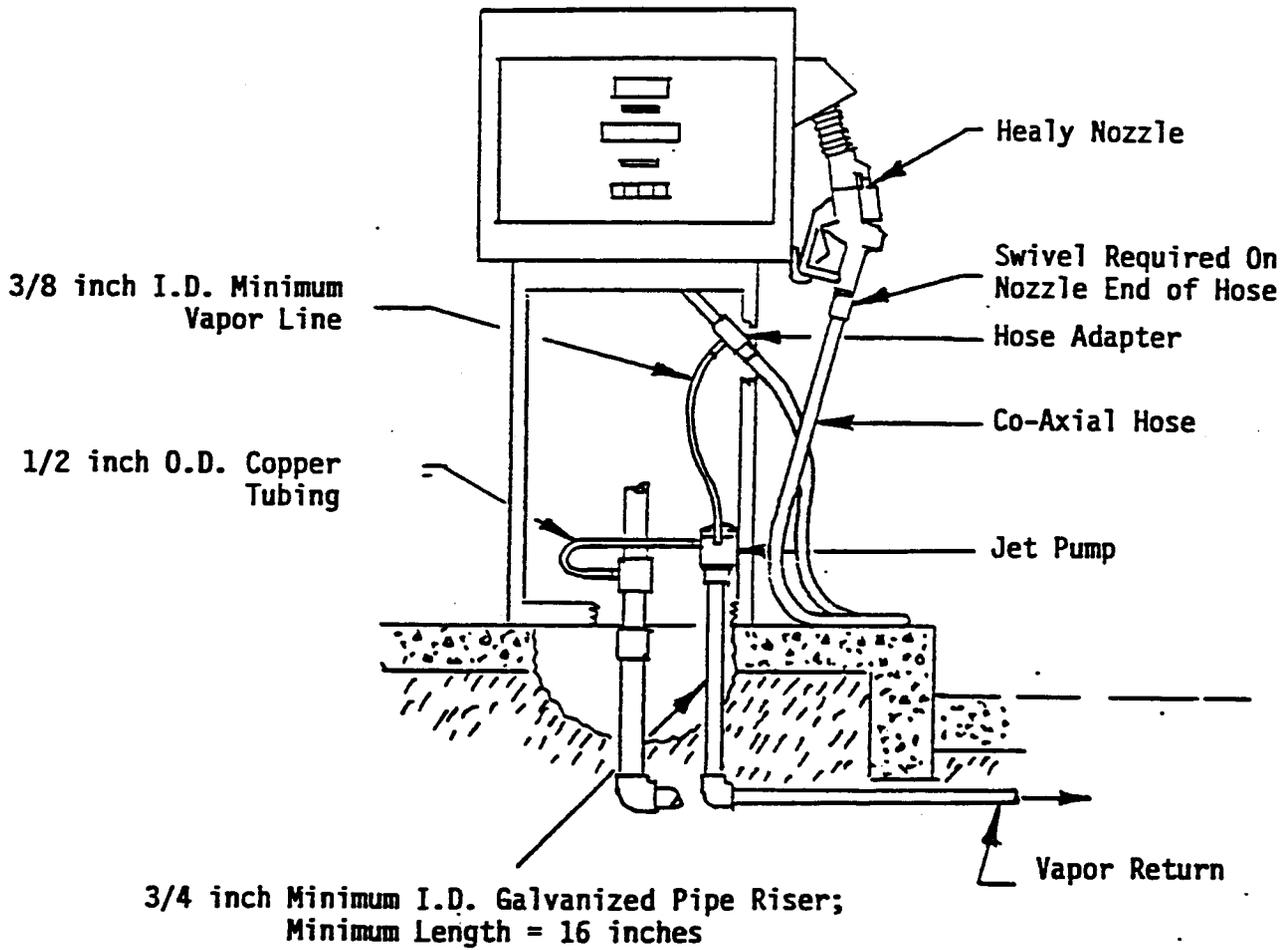
A pressure/vacuum valve is optional. If a P/V valve is used, it must be Board certified to have a pressure setting of 1 to 3 inches water column and a vacuum setting of -1/2 ounce to -8 inches water column. The vent outlet or P/V valve shall vent upward and be located to eliminate the possibility of vapors accumulating or traveling to a source of ignition or entering adjacent buildings.

3. A Board or district approved leak test is recommended for all new or modified installations. (The leak test contained in Exhibit 5 of this Order is not applicable to Model 100 jet pump systems.) The local district may impose more stringent requirements.

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Figure 3-A

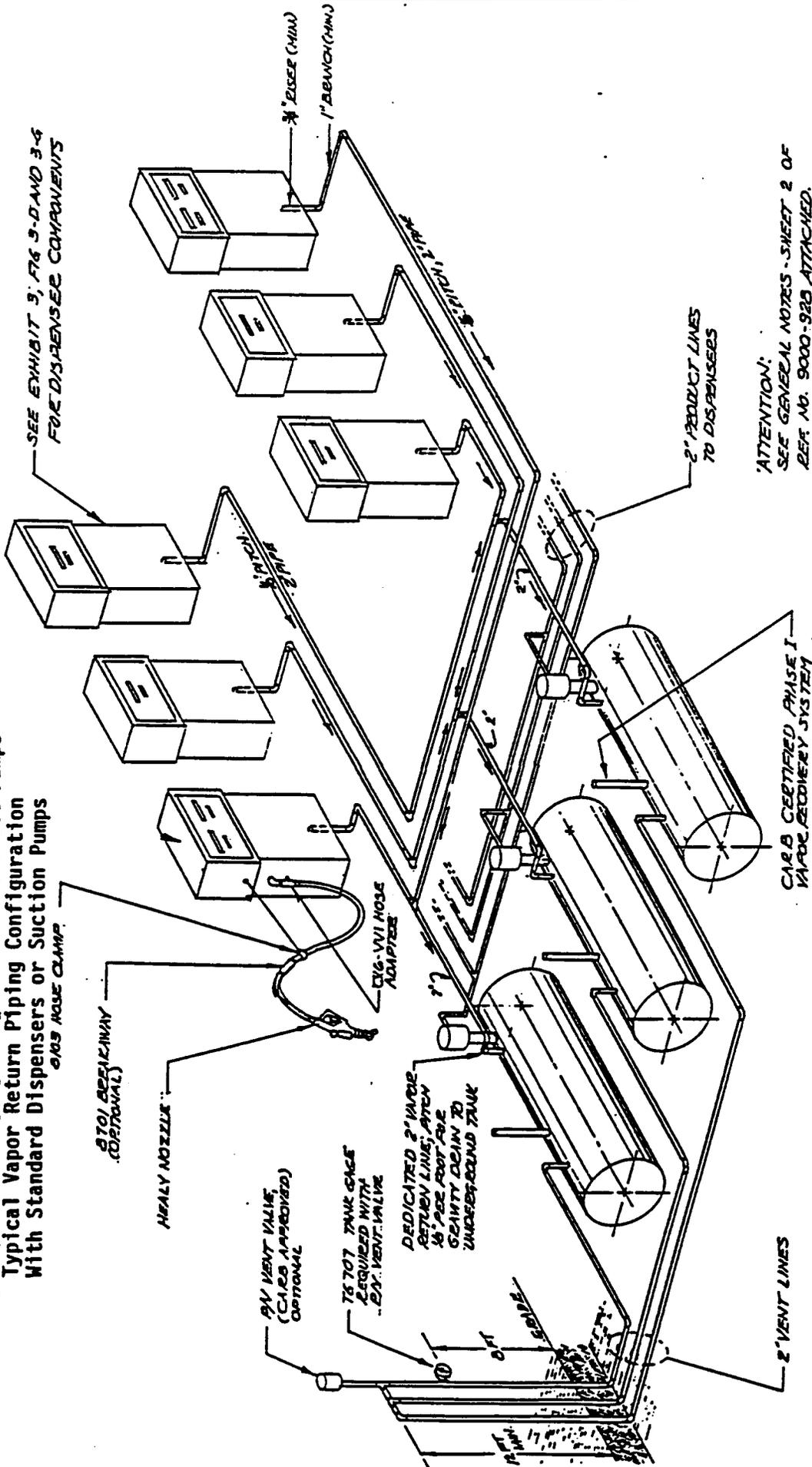
Healy Vapor Recovery System with Model 100 Jet Pumps  
Typical Vapor Return Piping Configuration  
With Standard Dispensers



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Figure 3-B

Healy Vapor Recovery System with Model 100 Jet Pumps  
 Typical Vapor Return Piping Configuration  
 With Standard Dispensers or Suction Pumps



ATTENTION:  
 SEE GENERAL NOTES - SHEET 2 OF  
 REF. NO. 9000-928 ATTACHED.

REVISIONS		
NO.	DESCRIPTION	DATE
1	ORIG. DESIG.	4-27-55
		JRH

HEALY SYSTEM		NO. 9000-928	
PIPING		FOR 100 JET PUMP	
IN STAND. DISPENSER		C 781C '62	



DO NOT SCALE THIS DRAWING

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BY WH JAW	DATE 1/2/52
CHKD BY	DATE
APPROVED	DATE
C.E. INC.	

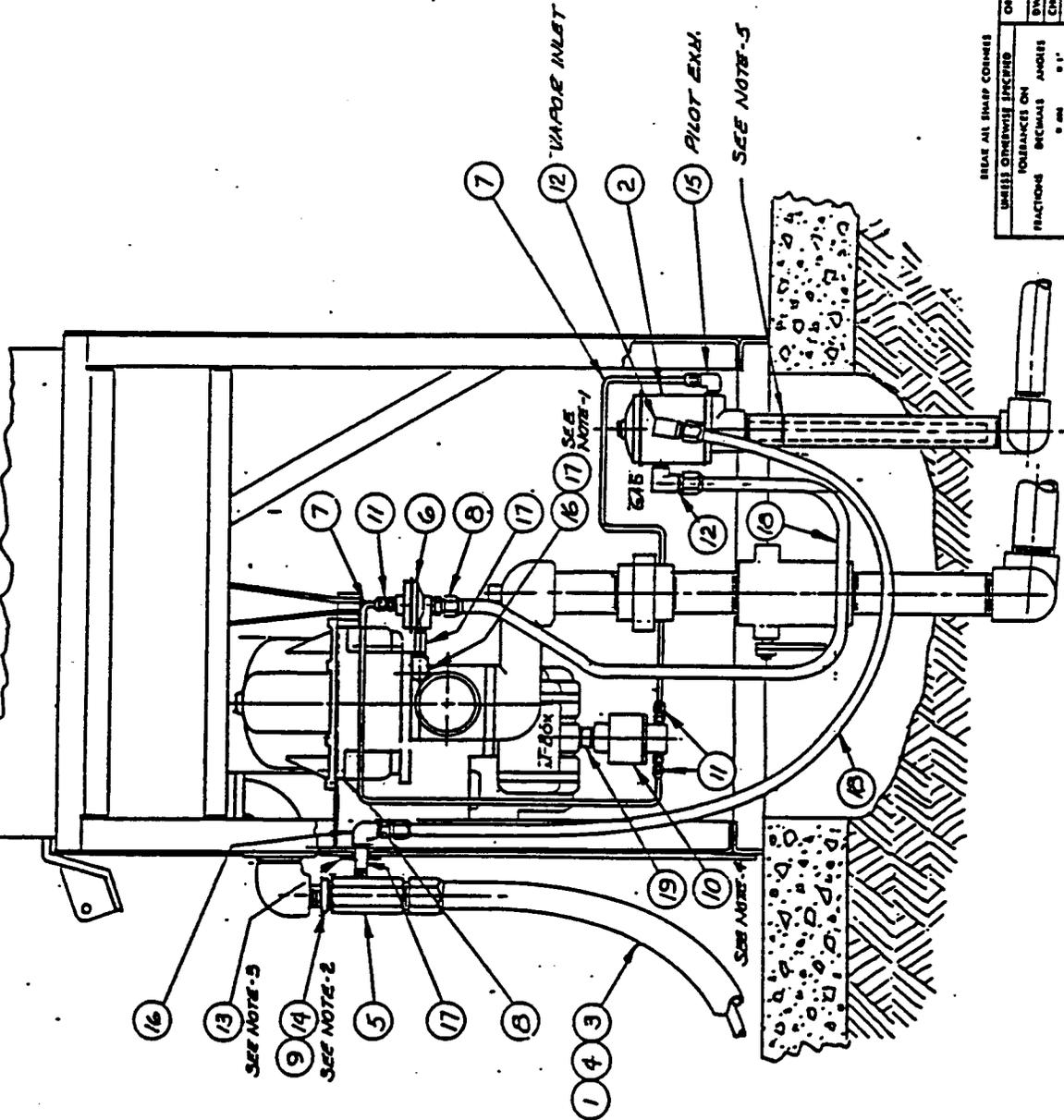
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TOLERANCES	FRACTIONS
FINISH	PROJECTIVE FINISH



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Figure 3-D

Healy Vapor Recovery System with Model 100 Jet Pumps  
Typical Installation of Dispenser Components  
With Standard Dispensers



- NOTES:
- 1-DELL & TAP 1/4 NPT AT LOCATION SHOWN BETWEEN FILTER & PRODUCT METER, CLEAN OUT ALL METAL CHIPS BEFORE OPERATION.
  - 2-DO NOT BACK OFF ON PIPE THREADS TO ALIGN NIPPLE (17) WITH 3/4" HOLE.
  - 3-MAKE 3/4" DIA. HOLE TO PASS THRU 1/2" NIPPLE. ATTACH WASHER (ITEM 13) BEFORE MAKING UP NIPPLE TO HOSE ADAPTER.
  - 4-CONNECT SOLENOID VALVE AT SPACE J-BOX FIRST. WIRE TO OPERATE IN ACCORDANCE WITH EXISTING MAIN FLOW CONTROL VALVE.
  - 5-REMOVE 1" NIPPLE WITH PIPE CUTTER. LEAVE 1/2" TO 3/4" RADIAL HOLE AS SHOWN SECTION LOCATE 1 3/4" TO GROUND LINE.

DO NOT SCALE THIS DRAWING

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BY	DATE	BY	DATE
CHK	DATE	CHK	DATE
SUBMITTED		C. E. INC.	
ATTN		C. E. INC.	
FINAL PROTECTIVE INK		C. E. INC.	

HEALY SYSTEM  
INSTALLATION

CAMBRIDGE ENGINEERING, INC.

7010-197

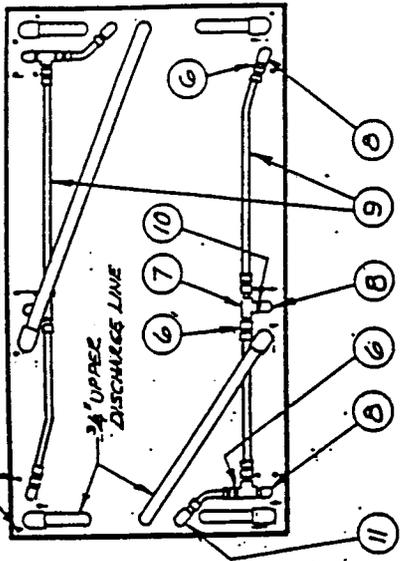
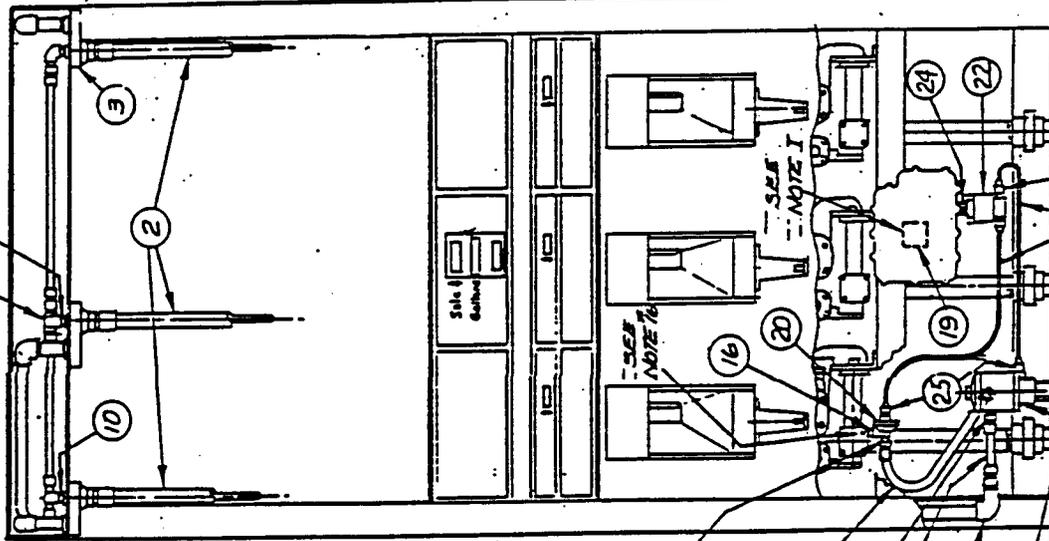
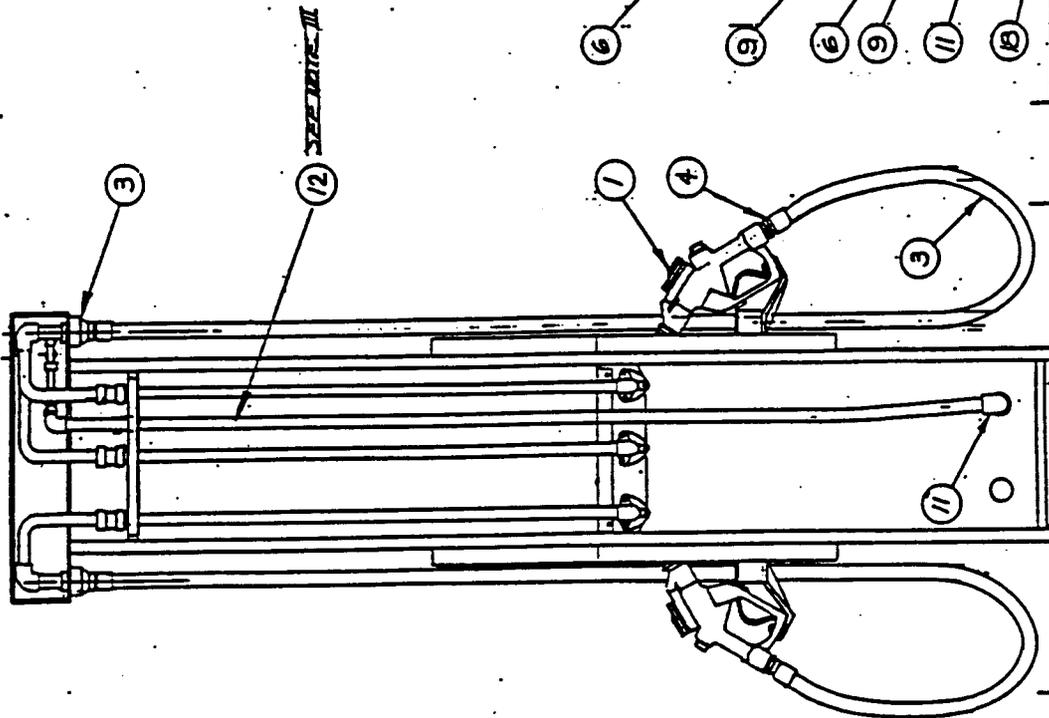
REV	DESCRIPTION	DATE	APPROVAL
A	REV. FOR 100 & CIG-VII	4-27-52	JULY

ITEM QTY	DESCRIPTION	P/N
1	NOZZLE (NOT SHOWN)	200
2	JET PUMP	100
3	CO-AXIAL HOSE (15 FT. MAX)	75B
4	SOLENOID VALVE (OPTIONAL)	8701
5	HOSE ADAPTER	CIG-VII
6	CONTROL VALVE	143
7	1/4" O.D. COPPER TUBES, TYPE L	
8	TUBE FITTING, 1/4" NPT x 1/2" FLARE	
9	3/4" x 1" CUSHING (GALV)	
10	SOLENOID VALVE (120V, 60HZ)	175
11	TUBE FITTING, 1/2" NPT x 1/4" FLARE	
12	TUBE FITTING, 1/2" NPT x 1/2" FLARE	
13	WASHER, HOLE PUNCH	109
14	1/4" CLOSE NIPPLE (GALV)	
15	TUBE FITTING, 1/2" NPT x 1/2" FLARE	
16	1/4" ELBOW (GALV)	
17	1/4" x 1/2" NIPPLE (GALV)	
18	1/2" O.D. COPPER TUBE, TYPE L	
19	1/2" CLOSE NIPPLE	

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Figure 3-E

Healy Vapor Recovery System with Model 100 Jet Pumps  
Typical Installation of Dispenser Components  
With Multi-Product Dispensers



PARTS LIST

ITEM	QTY	DESCRIPTION	PN
1	6	NOZZLE	200
2	6	1/2" ANIMAL HOSE (13 FT MAX)	75B
3	6	HOSE ADAPTER	016 G
4	24	1/4" 20 x 3/4" HEX RD BOLT	011
5	24	1/4" FLAT WASHER	012
6	20	ELAPE CONV. (MT-WMP)	
7	4	1/4" TEE (6ALV)	
8	6	1/4" ELBOW (6ALV)	
9	12 FT	1/2" OD COPPER TUBE	
10	10	1/4" CLOSE NIPPLE	
11	4	1/4" x 1/2" REDUCING ELBOW (6ALV)	
12	3 FT	1/2" SCH. 40 STL PIPE (6ALV)	
13	14		
14	14		
15	2	1/4" x 3 NIPPLE	
16	2	JET PUMP	100
17	2	RELAY	100L
18	2	CONTROL VALVE	1A3
19	2	SOLENOID INRIE	175
20	2	1/2" x 2 NIPPLE (6ALV)	
21	2	FLARE CONNECTOR (MT-WMP)	
22	2	1/4" OD COPPER TUBE	
23	2	1/4" OD COPPER TUBE	
24	2	1/4" OD COPPER TUBE	
25	2	1/4" OD COPPER TUBE	
26	2	1/4" OD COPPER TUBE	

DO NOT SCALE THIS DRAWING

REVISIONS

REV	DESCRIPTION	DATE	BY
1	GEN'L DIMENSION	5/1/67	JWH
2	REV. FOR GILBARCO	12/1/68	JWH

SCALE: AS SHOWN

DATE: 7/10/1982

HEET 1 OF 2

HEALY SYSTEM  
INSTALLATION

MULTI-PROD. DISPENSERS

CAMBRIDGE ENGINEERING, INC.

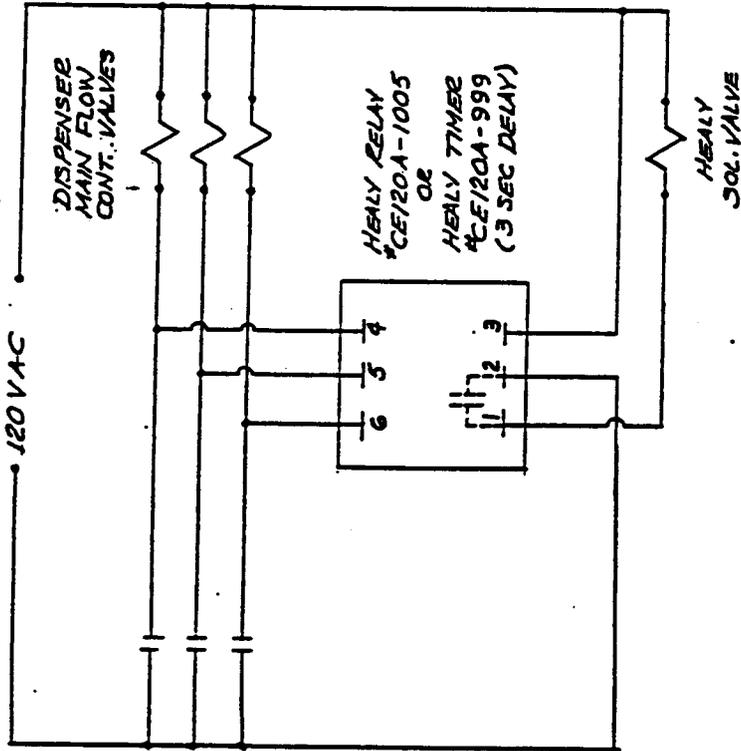
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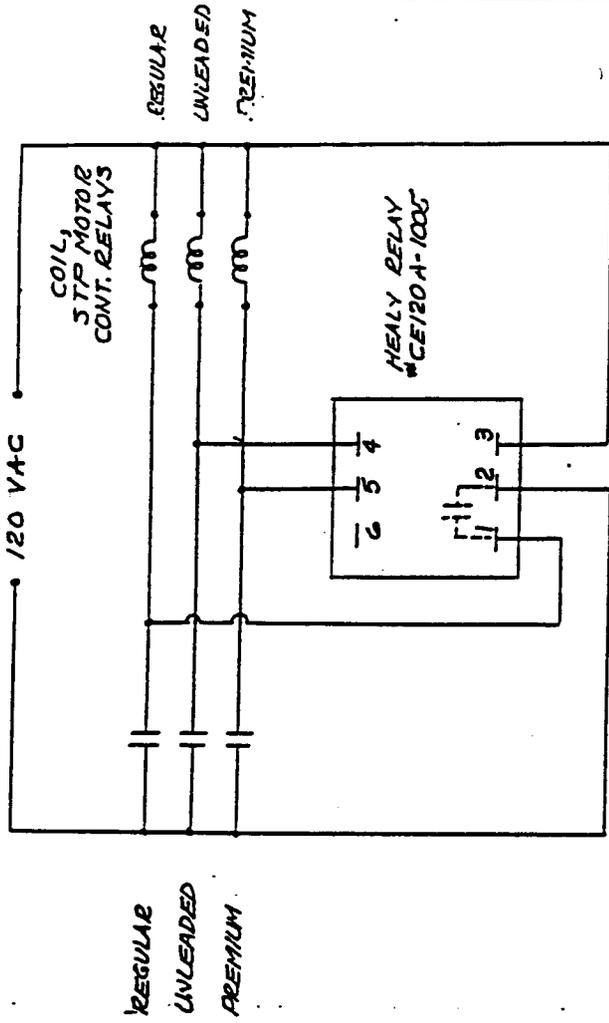
HEET 1 OF 2

NOTE: SEE INSTALLATION INSTRUCTION SHEET # 102.D FOR STEP BY STEP PROCEDURE TO FIELD RETRO-FIT TYPICAL 6 HOSE MULTI-PRODUCT DISPENSER WITH HEALY SYSTEM USING JET-PUMPS. DO NOT KINK COPPER TUBE WHEN BENDING. III - 1/2" PIPE BY INSTALLER (2 PCS; APPROX 7 FT LONG)

**JET PUMP CONTROL**  
 MULTI-GRADE DISPENSER  
 (2) REG. PER DISPENSER



**SUBMERGED TURBINE PUMP CONTROL**  
 MULTI-GRADE DISPENSER



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Figure 3-F

Healy Vapor Recovery System with Model 100 Jet Pumps  
 Wiring Instructions for Multi-Product Dispensers and Submerged Pump Control

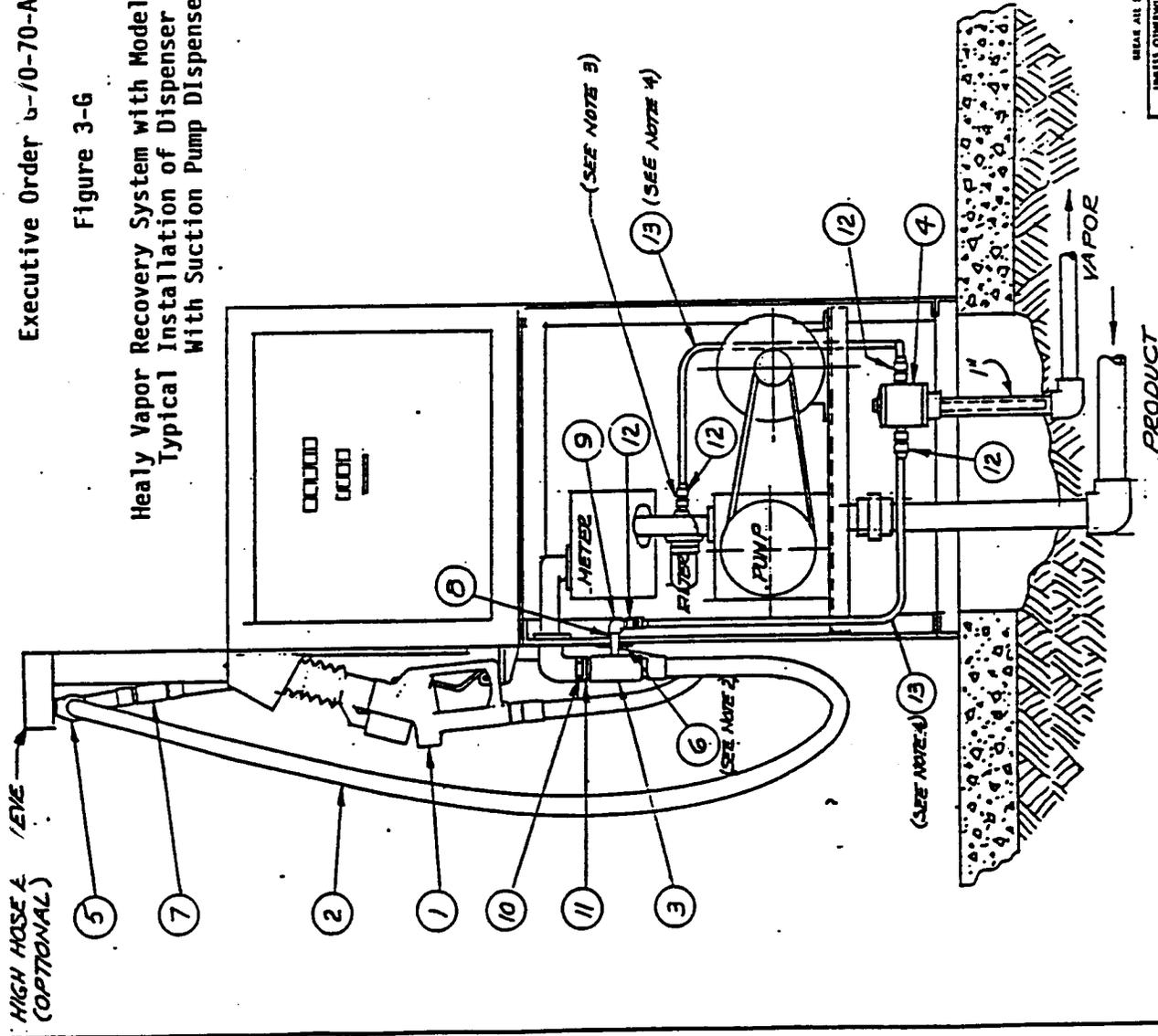
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Figure 3-6

Healy Vapor Recovery System with Model 100 Jet Pumps  
Typical Installation of Dispenser Components  
With Suction Pump Dispensers



ITEM	QTY	DESCRIPTION	P/N
1	1	NOZZLE (-01 LEAD, -02 UNLEAD)	400
2	1	CORANAL HOSE (13 FT. MAX)	757
3	1	HOSE ADAPTER	047W
4	1	JET PUMP	100
5	1	HOSE CLAMP	5103
6	1	WASHER, HOLE MASK	189
7	1	BREAKAWAY (OPTIONAL)	8701
8	1	1/4" NIPPLE (GALV)	
9	1	1/4" ELBOW (GALV)	
10	1	3/4" CLOSE NIPPLE	
11	1	3/4" X 1" BUSHING (GALV)	
12	4	1/4" METR 1/2" O.D. COPPER	
13	5 FT	1/2" O.D. COPPER TUBE	

- NOTES:
- 1- MAKE 3/4" DIA. HOLE TO PASS THROUGH 1/4" NIPPLE
  - 2- SLIP WASHER (ITEM 6) OVER NIPPLE BEFORE MAKING UP NIPPLE TO HOSE ADAPTER (ITEM 3)
  - 3- MAKE GASOLINE CONNECTION AT STAIRS 1/4" O.D. LARGEST PIPE ROET BETWEEN PUMP DISCHARGE & METER INLET. IF UNAVAILABLE 7/8" DRILL & 1/4"-18 NPT TAP AT SUITABLE HEAVY WALL SECTION OF PIPEWAY. REMOVE SECTION FOR DRILL & TAP OPERATION TO EXCLUDE METAL CHIPS FROM ENTERING METER.
  - 4- DO NOT KINK 1/2" O.D. COPPER TUBE.

— REFERENCE CODES —  
THIS EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH NFPA-70 AND AUTOMOTIVE & MARINE SERVICE CODE NFPA-30A.

REVISIONS		REVISED		BY	
1	REVISED	2	REVISED	3	REVISED
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1	2/1/70	2	3/1/70	3	4/1/70
ISSUED		DATE		BY	
1	2/1/70	2	3/1/70	3	4/1/70
SUBMITTED		DATE		BY	
1	2/1/70	2	3/1/70	3	4/1/70
CLIENT		DATE		BY	
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DO NOT SCALE THE DRAWING

HEALY SYSTEM  
INSTALLATION  
SUCTION PUMP  
WITH #100 JET PUMP

SCALE: NO. 803

CODE: C 7810-198

CAMBRIDGE ENGINEERING, INC.

Executive Order G-70-70-AC

Exhibit 4

Specifications for Healy System with Central Vacuum Unit  
(Model 8500 Multi-Jet or 9000 Mini-Jet)

Drawings of typical installations of Healy vapor recovery systems with a central vacuum unit are shown in Figures 4-A, 4-B, 4-C, 4-D, 4-E, 4-F and 4-G.

Nozzles

1. Systems with a central vacuum unit for which the normal operating range of the vacuum level is -30" to -40" water column may be used only with Model 200 nozzles. Systems with a central vacuum unit for which the normal operating range of the vacuum level is -60" to -80" water column may be used with Model 400 or Model 200(X) nozzles. 200(X) designates Model 200 nozzles which have been modified, by the manufacturer or designated representative only, to operate properly at the higher vacuum level setting. These nozzles have an "X" stamped on the nozzle body following the serial number.
2. Leaded and unleaded nozzle spouts are interchangeable.
3. The nozzle must shut off at a vacuum of -10 inches water column or less and at a pressure of +10 inches water column or greater.
4. Flow rate is limited to 10 gallons or less per minute.
5. The normal operating range in the nozzle boot is -1/4 inch water column to zero (atmospheric pressure). Readings taken during a fueling of at least ten gallons, excluding the first gallon and the last gallon dispensed, should be relatively stable. Fluctuations (except during the first or last gallon) indicate a defective nozzle. A vacuum of -1/2 inch or more, or a pressure of 1/4 inch or more, indicate a defective nozzle or system. (Note: vacuum or pressure levels outside of the specified range may occur when properly functioning equipment is affected by the following conditions. Gasoline dispensed into a vehicle fuel tank which is significantly warmer than the dispensed fuel may cause a vacuum of several inches. Conversely, gasoline dispensed into a vehicle tank which is significantly cooler than the dispensed fuel may temporarily cause pressure as high as 1/2 inch water column. The effects of temperature differential will be most pronounced at the beginning of the fueling operation and tend to gradually disappear toward the end of the fueling operation.)

Central Vacuum Unit

1. Gasoline that flows to the Multi-Jet must be first strained by a filter approved by the manufacturer. The Mini-Jet is direct-coupled to the submerged turbine pump and it has a factory-installed strainer.