

Vapor Systems Technologies, Inc

650 Pleasant Valley Drive * Springboro, OH 45066
937.704.9333 PH * 937.704.9443 FX * www.vsthose.com

Green Machine™ Pre-Installation Site Survey

Pre-Installation Inspector Information

Your name:	
Company Name:	
Company Address	
City, State, Zip	
Phone	
E-mail	

GDF Contact Information

GDF Name:	
GDF Address:	
GDF Phone:	
GDF Fax:	
GDF #:	
GDF Contact Person:	
E-mail	
Notes:	

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Snapshot of Site Requirements

Local Air Pollution Control District
<ul style="list-style-type: none">• GDF must contact the local air pollution control district for specific local vapor recovery requirements.
Common Requirements
<ul style="list-style-type: none">• The <i>Green Machine</i> must be protected from damage.• VST recommends an 18" perimeter around the <i>Green Machine</i> for maintenance and testing.• The <i>Green Machine</i> must be located at least 10' from the property line unless a variance is obtained from the local authority.• The <i>Green Machine</i> must be located within 100' of the vent risers.
Ground-Mount Location
<ul style="list-style-type: none">• Obtain approval from the local jurisdiction for the <i>Green Machine</i> to be placed on the ground.
Vent Riser Mount
<ul style="list-style-type: none">• Obtain approval from the local jurisdiction for the <i>Green Machine</i> to be placed on the vent riser support structure.• The support structure must be of adequate strength to support the <i>Green Machine</i>.
Roof-Mount Location
<ul style="list-style-type: none">• Obtain approval from the local jurisdiction for the <i>Green Machine</i> to be placed on the roof.• Structure must be strong enough to hold the weight of the <i>Green Machine</i>.• The height of the <i>Green Machine</i> must allow for the proper vapor-piping slope.
Canopy-Mount Location
<ul style="list-style-type: none">• Obtain approval from the local jurisdiction for the <i>Green Machine</i> to be placed on the canopy.• Structure must be strong enough to hold the weight of the <i>Green Machine</i>.• All safety and code concerns have been addressed.
UST Manifolding
<ul style="list-style-type: none">• UST's must be manifolded either below grade or at the vent risers.• Only a single vent is required.
Dispensers
<ul style="list-style-type: none">• The dispenser vapor piping must be sized adequately to meet the maximum pressure drop requirement. A minimum one-inch (1") nominal internal diameter for the vapor down pipe is recommended.

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Snapshot of Site Requirements, cont.

UST Fuel Level Management
<ul style="list-style-type: none">• Must be able to access an Overfill Alarm contact with the VST Control Panel <i>Green Machine</i> Controller.
VST Control Panel
<ul style="list-style-type: none">• VST Control Panel completely powers the Green Machine via one 115VAC, 20-amp breaker.• The VST Control Panel must be installed inside the GDF electrical room.• The VST Control Panel is UL approved.
Vent Risers
<ul style="list-style-type: none">• Only 1 vent riser is required for the installation of the Green Machine.• Recommended slope of ¼" per foot on all vapor-piping connecting the Green Machine to the vent risers or to any other UST connection. (VST requires a minimum of 1/8" per foot minimum slope for all vapor piping.)• Any type of trap, other than the ARB-approved liquid-condensate trap (regardless of the Green Machine location), is not permitted in any vapor lines connected to the Green Machine.• A 5' radius around the vent riser P/V valve is a Class I, Div. 2 hazardous area as defined in NFPA 70.
Veeder-Root Controls
<ul style="list-style-type: none">• Must have TLS-350 with appropriate Veeder-Root software installed.
CARB Requirements
<ul style="list-style-type: none">• Executive Order: VR-203/204.

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Overall GDF Layout

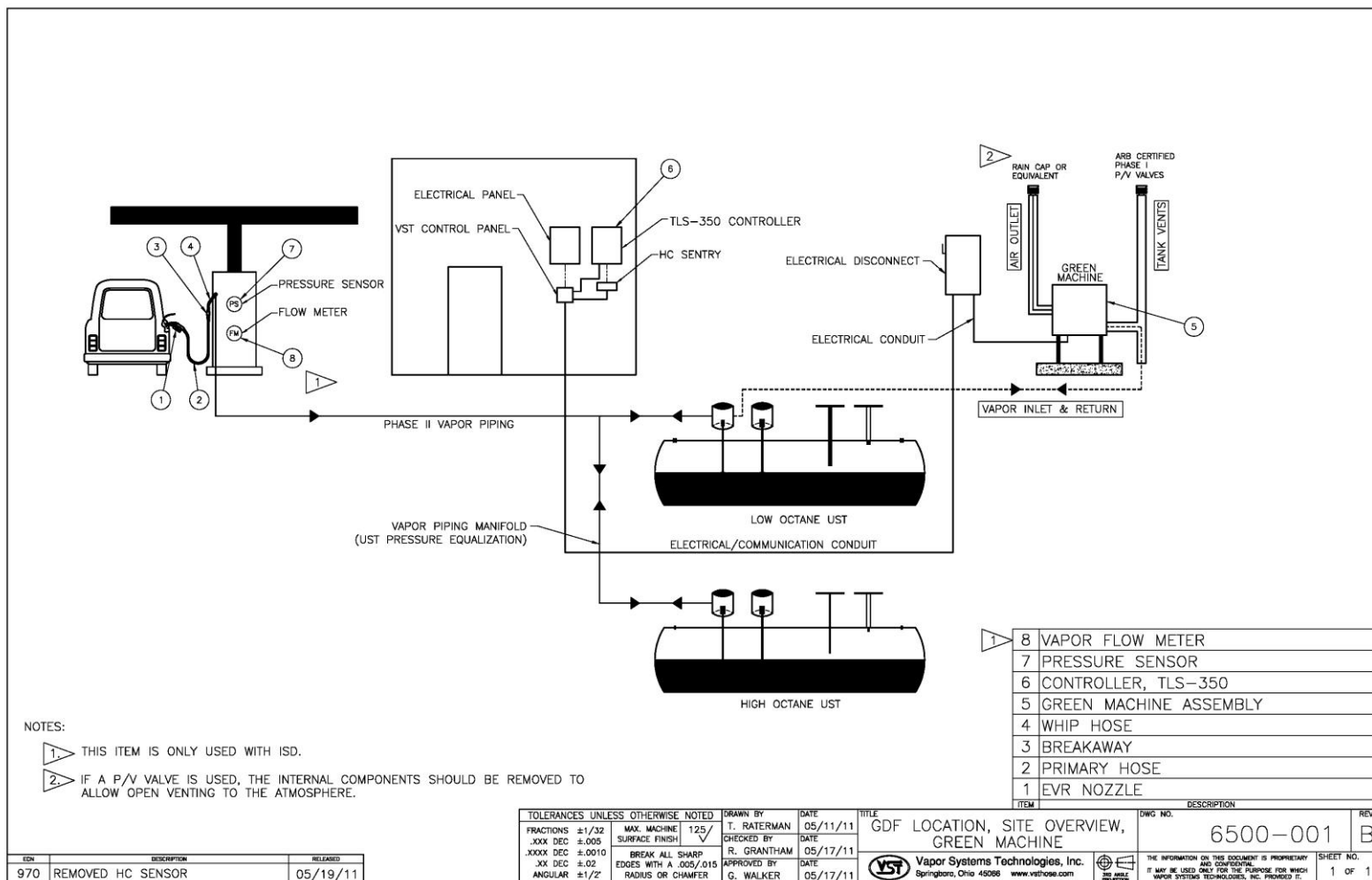


Figure 1: Green Machine GDF Layout

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Green Machine Piping Diagram

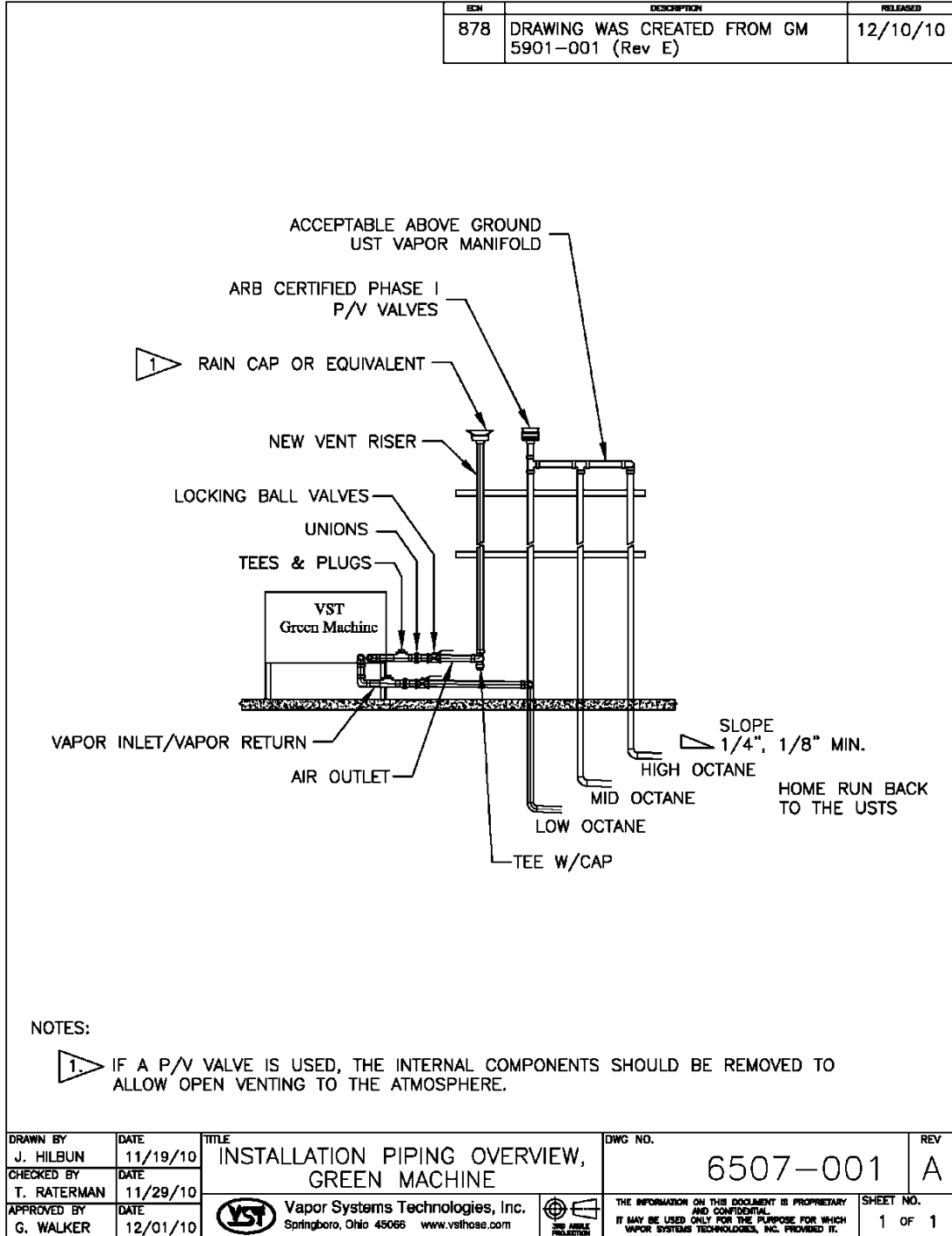


Figure 2: Green Machine Installation Details

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Dispensers

1.	Make and model	
2.	Assist or Balance (OD of Vapor Pipe)	
3.	MPD or Unihose	
4.	Number of dispensers	
5.	Shallow or deep pans	

Vent Riser and UST

6.	Number of vent risers	
7.	Location of vent risers (show on sketch)	
8.	Where are the UST's manifolded? <input type="checkbox"/> Above Ground <input type="checkbox"/> Below Ground	

Green Machine

9.	What are the possible locations that can be used for the Green Machine?	<input type="checkbox"/> Ground <input type="checkbox"/> Roof <input type="checkbox"/> Canopy
10.	Will a waiver or variance be needed for a ground-mount location?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Electrical

11.	Does the GDF have single phase, 110VAC available?	<input type="checkbox"/> Yes <input type="checkbox"/> No
12.	Are there any existing conduits at or near the proposed Green Machine location (for example lights, signs, vacuum)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
13.	Does the TLS-350 have an additional open RS-232 port to be used as an Inspector Port? If no, then a VST GM-032 Inspector Port Communications Kit must be ordered through VST.	<input type="checkbox"/> Yes <input type="checkbox"/> No

Additional Documentation

Include photos of each of the above items as needed.

On the following page, draw a sketch of the GDF layout. Include:

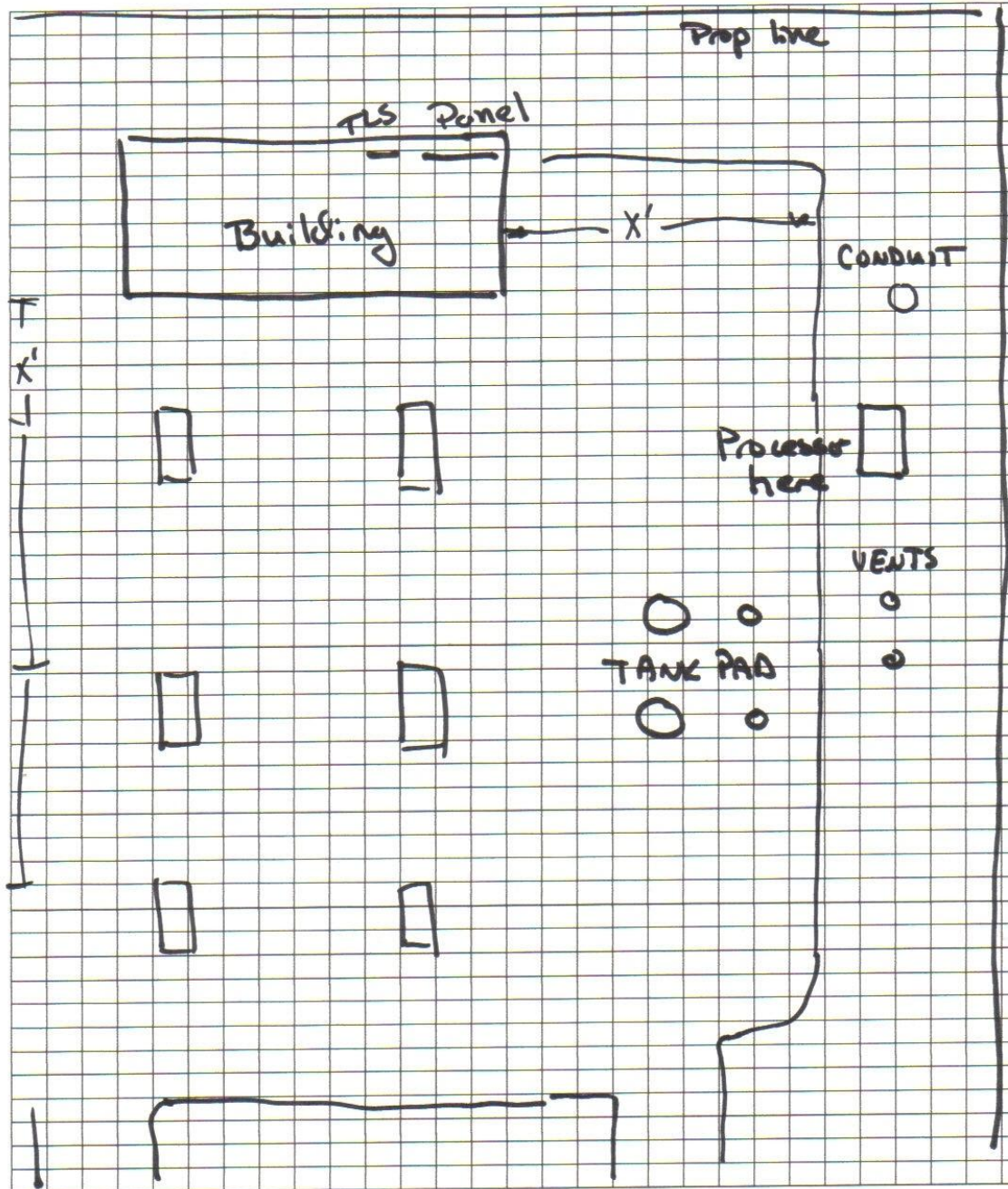
- (a) the location of the vent risers,
- (b) tank pad,
- (c) dispensers,
- (d) building with locations of the electrical panel,
- (e) property lines, and
- (f) any existing conduits near the proposed *Green Machine* location.

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Sample Sketch

Example Sketch



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Your Sketch

A large grid for sketching vapor piping and conduit runs. The grid is composed of 30 columns and 30 rows of small squares. In the bottom right corner of the grid, there is a rectangular box containing the text: "Please show vapor piping and conduit runs".

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Please show vapor piping and conduit runs

Please also include pictures of the site.