



Clean Harbors La Porte, LLC  
500 Independence Parkway South  
La Porte, Texas 77571  
281.884.5500  
www.cleanharbors.com

December 1, 2021

**Sent via Fed Ex & eMail**

Gulay Aki, P.E.  
Section Manager, Industrial & Hazardous Waste (IHW) Permits Section, MC 130  
Waste Permits Division  
Texas Commission on Environmental Quality  
P. O. Box 13087  
Austin, Texas 78711-3087  
(512) 239-1000  
[ihwper@tceq.texas.gov](mailto:ihwper@tceq.texas.gov)

**Re: RCRA Part B Class 2 Permit Modification – Regulated Medical Waste Treatment Process  
Clean Harbors La Porte, LLC  
La Porte, Harris County, Texas  
Hazardous Waste Permit Number: 50225  
Industrial Solid Waste Number: 50225  
RN102949021/CN603661844**

Dear Ms. Aki:

Please allow this correspondence to serve as the referenced facility's request for a Class 2 permit modification. This Class 2 permit modification provides TCEQ Form 20714 (Waste Permits Division Correspondence Cover Sheet) and TCEQ Form 20903 (Class 2 Permit Modification Form). Form 20903 outlines all information enclosed herein for this RCRA Class 2 Permit Modification.

This application is being emailed to [ihwper@tceq.texas.gov](mailto:ihwper@tceq.texas.gov), with the original being submitted to your TCEQ office. Please contact me at [desha.david@cleanharbors.com](mailto:desha.david@cleanharbors.com) or (423) 413-1218 with any questions or comments you have concerning this matter.

Sincerely,

David A. DeSha  
Director Environmental Compliance  
Clean Harbors Environmental Services, Inc.

cc: Facility File



Enclosure



Texas Commission on Environmental Quality  
**Waste Permits Division Correspondence  
 Cover Sheet**

Date: 12/1/2021  
 Facility Name: Clean Harbors La Porte, LLC  
 Permit or Registration No.: 50225

Nature of Correspondence:  
 Initial/New  
 Response/Revision to TCEQ Tracking No.:  
 \_\_\_\_\_ (from subject line of TCEQ letter  
 regarding initial submission)

Affix this cover sheet to the front of your submission to the Waste Permits Division. Check appropriate box for type of correspondence. Contact WPD at (512) 239-2335 if you have questions regarding this form.

Table 1 - Municipal Solid Waste Correspondence

Applications	Reports and Notifications
<input type="checkbox"/> New Notice of Intent	<input type="checkbox"/> Alternative Daily Cover Report
<input type="checkbox"/> Notice of Intent Revision	<input type="checkbox"/> Closure Report
<input type="checkbox"/> New Permit (including Subchapter T)	<input type="checkbox"/> Compost Report
<input type="checkbox"/> New Registration (including Subchapter T)	<input type="checkbox"/> Groundwater Alternate Source Demonstration
<input checked="" type="checkbox"/> Major Amendment	<input type="checkbox"/> Groundwater Corrective Action
<input type="checkbox"/> Minor Amendment	<input type="checkbox"/> Groundwater Monitoring Report
<input type="checkbox"/> Limited Scope Major Amendment	<input type="checkbox"/> Groundwater Background Evaluation
<input type="checkbox"/> Notice Modification	<input type="checkbox"/> Landfill Gas Corrective Action
<input type="checkbox"/> Non-Notice Modification	<input type="checkbox"/> Landfill Gas Monitoring
<input type="checkbox"/> Transfer/Name Change Modification	<input type="checkbox"/> Liner Evaluation Report
<input type="checkbox"/> Temporary Authorization	<input type="checkbox"/> Soil Boring Plan
<input type="checkbox"/> Voluntary Revocation	<input type="checkbox"/> Special Waste Request
<input type="checkbox"/> Subchapter T Disturbance Non-Enclosed Structure	<input type="checkbox"/> Other:
<input type="checkbox"/> Other:	

Table 2 - Industrial & Hazardous Waste Correspondence

Applications	Reports and Responses
<input type="checkbox"/> New	<input type="checkbox"/> Annual/Biennial Site Activity Report
<input type="checkbox"/> Renewal	<input type="checkbox"/> CPT Plan/Result
<input type="checkbox"/> Post-Closure Order	<input type="checkbox"/> Closure Certification/Report
<input checked="" type="checkbox"/> Major Amendment	<input type="checkbox"/> Construction Certification/Report
<input type="checkbox"/> Minor Amendment	<input type="checkbox"/> CPT Plan/Result
<input type="checkbox"/> CCR Registration	<input type="checkbox"/> Extension Request
<input type="checkbox"/> CCR Registration Major Amendment	<input type="checkbox"/> Groundwater Monitoring Report
<input type="checkbox"/> CCR Registration Minor Amendment	<input type="checkbox"/> Interim Status Change
<input type="checkbox"/> Class 3 Modification	<input type="checkbox"/> Interim Status Closure Plan
<input checked="" type="checkbox"/> Class 2 Modification	<input type="checkbox"/> Soil Core Monitoring Report
<input type="checkbox"/> Class 1 ED Modification	<input type="checkbox"/> Treatability Study
<input checked="" type="checkbox"/> Class 1 Modification	<input type="checkbox"/> Trial Burn Plan/Result
<input type="checkbox"/> Endorsement	<input type="checkbox"/> Unsaturated Zone Monitoring Report
<input type="checkbox"/> Temporary Authorization	<input type="checkbox"/> Waste Minimization Report
<input type="checkbox"/> Voluntary Revocation	<input type="checkbox"/> Other:
<input type="checkbox"/> 335.6 Notification	
<input type="checkbox"/> Other:	



## Texas Commission on Environmental Quality Class 2 Permit Modification Form for an IHW Facility

### Who Should Use This Form

Use this form to submit a Class 2 permit modification application to the Industrial & Hazardous Waste (IHW) Permits Section. To determine if you need a Class 2 permit modification, review [Title 30, Texas Administrative Code \(TAC\) Subsection 305.69\(k\)](#).

**Submit one original hard copy of this form along with other required documents listed below** to Industrial and Hazardous Waste Permits Section MC 130, TCEQ, P.O. Box 13087, Austin, TX 78711-3087. Submit the electronic copy by emailing at [ihwper@tceq.texas.gov](mailto:ihwper@tceq.texas.gov). Submittal of hard copy is still required.

If you have any questions about this form, or need an accessible version of these documents, contact the IHW Permits Section at (512) 239-2335 or by email at [ihwper@tceq.texas.gov](mailto:ihwper@tceq.texas.gov).

Required Attachments	
1. <a href="#">Core Data Form</a> if requesting an update	Attachment <u>1</u>
2. <a href="#">Table I - General Information</a>	Attachment <u>2</u>
3. <a href="#">Signature Page</a>	Attachment <u>3</u>
4. Pages, tables or attachments from the <a href="#">Part B Application</a> or <a href="#">Part A Application</a> * that change as a result of modification	Attachment <u>4</u>
5. A list with the names and mailing addresses of all the <a href="#">adjacent landowners</a>	Attachment <u>4</u>
6. A <a href="#">mailing list</a> identifying all persons specified in <a href="#">30 TAC § 39.413</a>	Attachment <u>4</u>
7. <a href="#">Map</a> showing the boundaries of all adjacent parcels of land**	Attachment <u>4</u>
8. <a href="#">Description of Proposed Application Changes Table</a>	
9. Proof of adjacent landowners and all persons listed in 30 TAC § 39.413 notified by first class mail***	Attachment <u>4</u>
10. Completed <a href="#">affidavit of publication</a> and the original newspaper public notice tear sheet*** Date of Publication: <u>11/24/2021</u> Date when notices were mailed out: <u>11/24/2021</u>	Attachment <u>5</u>
11. Proof of <a href="#">Payment</a> receipt. <a href="#">TCEQ E Pay</a>	Attachment <u>6</u>

\*If Part A Application is revised, signature page of Part A Application is also required.  
 \*\*The map should be a USGS map, a city or county plat, or another map, sketch, or drawing with a scale adequate enough to show the affected landowners.  
 \*\*\*Note: Please mail the [notice of modification](#) and publish notice in a major local newspaper of general circulation within 7 days before the application is submitted to TCEQ. Affidavit of publication and newspaper tear sheet can be sent at a later date if you are not able to submit it with the form.  
 More details about these documents can be found at [Class 2 Modification Webpage](#).



<b>Description of Proposed Application Changes</b>			
<b>Category</b>		<b>Brief Description of Proposed Revision</b>	<b>Regulatory Citation applicable for Class 2 Modification*</b>
General Facility Standards		Update list of Emergency Coordinators	30 TAC §305.69(k).B(6)d
Containers		Increase in secondary containment capacity for Warehouse II (hazardous waste management unit CSA2) without any container storage increase	30 TAC §305.69(k).F(2)a
Other		Install regulated medical waste treatment & container washing equipment (i.e., not hazardous waste units) in Warehouse II. Advised to add as Miscellaneous Units	30 TAC §326, Subchapter F

\* This form is only for Class 2 Modifications, however applicants can enter Class 1 & Class 1ED modification citations if any modifications fall under those types. Select the "other" category from the drop down and provide the applicable citation.  
 \*\* Submittal of hard copy is still required.



# Attachment 1



TCEQ Use Only

# TCEQ Core Data Form

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

## SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)		<input checked="" type="checkbox"/> Other <b>Class 2 Modification</b>
2. Customer Reference Number (if issued)	<a href="#">Follow this link to search for CN or RN numbers in Central Registry**</a>	3. Regulated Entity Reference Number (if issued)
CN 603661844		RN 102949021

## SECTION II: Customer Information

4. General Customer Information	5. Effective Date for Customer Information Updates (mm/dd/yyyy)	1/1/2022	
<input type="checkbox"/> New Customer		<input checked="" type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		<input type="checkbox"/> Change in Regulated Entity Ownership	
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>			
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)		If new Customer, enter previous Customer below:	
Clean Harbors La Porte, LLC			
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
010068906	10426989991	481263744	1577936
11. Type of Customer:	<input checked="" type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other:	
12. Number of Employees		13. Independently Owned and Operated?	
<input type="checkbox"/> 0-20 <input checked="" type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following			
<input type="checkbox"/> Owner		<input type="checkbox"/> Operator	
<input type="checkbox"/> Occupational Licensee		<input checked="" type="checkbox"/> Owner & Operator	
<input type="checkbox"/> Responsible Party		<input type="checkbox"/> Voluntary Cleanup Applicant	
<input type="checkbox"/> Other:			
15. Mailing Address:	500 Independence Parkway South		
	City	La Porte	State TX ZIP 77571 ZIP + 4 9768
16. Country Mailing Information (if outside USA)		17. E-Mail Address (if applicable)	
		walker.john@cleanharbors.com	
18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)	
( 281 ) 884-5500	5507	( ) -	

## SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected below this form should be accompanied by a permit application)	
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input checked="" type="checkbox"/> Update to Regulated Entity Information	
<i>The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>	
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)	
Clean Harbors La Porte	

23. Street Address of the Regulated Entity: <i>(No PO Boxes)</i>	500 Independence Parkway South							
	City	La Porte	State	TX	ZIP	77571	ZIP + 4	9768
24. County	Harris							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:								
26. Nearest City						State	Nearest ZIP Code	
27. Latitude (N) In Decimal:	29.706739			28. Longitude (W) In Decimal:	-95.091301			
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
29	42	24.30	95	05	28.70			
29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)			
4953	4226		562211		493110			
33. What is the Primary Business of this entity? <i>(Do not repeat the SIC or NAICS description.)</i>								
Commercial TSDF, hazardous waste transfer and regulated medical waste transfer and treatment facility								
34. Mailing Address:	500 Independence Parkway South							
	City	La Porte	State	TX	ZIP	77571	ZIP + 4	9768
35. E-Mail Address:	walker.john@cleanharbors.com							
36. Telephone Number		37. Extension or Code			38. Fax Number <i>(if applicable)</i>			
( 281 ) 884-5500		5507			( ) -			

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form Instructions for additional guidance.

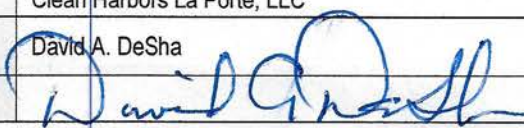
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input checked="" type="checkbox"/> Industrial Hazardous Waste
				50225
<input checked="" type="checkbox"/> Municipal Solid Waste	<input checked="" type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input checked="" type="checkbox"/> PWS
50225	PBR-Multiple			1012759
<input type="checkbox"/> Sludge	<input checked="" type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input checked="" type="checkbox"/> Used Oil
	TXR05U063			A85635
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input checked="" type="checkbox"/> Other: EPA
				TXD982290140

**SECTION IV: Preparer Information**

40. Name:	David DeSha	41. Title:	Director Environmental Compliance
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
( 423 ) 413-1218		( ) -	desha.david@cleanharbors.com

**SECTION V: Authorized Signature**

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Clean Harbors La Porte, LLC	Job Title:	Director Environmental Compliance
Name (In Print):	David A. DeSha	Phone:	( 423 ) 413- 1218
Signature:		Date:	11/26/2021





# Attachment 2

**Table I: General Information**

**A. Applicant: Facility Operator (or Facility Owner & Operator, if same)**

Name <sup>1</sup>	Clean Harbors La Porte, LLC
Address	500 Independence Parkway S
City, State	La Porte, TX
Zip Code	77571
Telephone Number	(281) 884-5500
Alternate Telephone Number	(281) 884-5507
Fax:	
TCEQ Solid Waste Registration No.	50225
EPA I.D. No.	TXD982290140
Permit No.	50225
County	Harris
Regulated Entity Name	Clean Harbors La Porte
Regulated Entity Reference Number (RN)	102949021
Customer Name	Clean Harbors La Porte
Customer Reference Number:	603661844
Charter Number <sup>2</sup>	800102165
Previous or Former Names of the Facility (if applicable)	

**B. Facility Owner: Identify the Facility Owner if different than the Facility Operator<sup>3</sup>**

Same as Facility Operator?

Name	
Address	
City, State	
Zip Code	
Telephone Number	
Alternate Telephone Number	
Fax:	

**C. Facility Contact**

**1. Persons or firms who will act as primary contact:**

Name, Title:	Steve Walker, Facility General Manager
Address	500 Independence Parkway S
City, State:	La Porte, TX
Zip Code	77571
Telephone Number	(281) 884-5507
Alternate Telephone Number	(281) 884-5500
E-mail	walker.john@cleanharbors.com
Fax:	

**Persons or firms who will act as primary contact (if more than one):**

Name, Title:	Paul Andrews
Address	500 Independence Parkway S
City, State:	La Porte, TX
Zip Code	77571
Telephone Number	(225) 681-0878
Alternate Telephone Number	(225) 778-3645
E-mail	andrews.paul@cleanharbors.com
Fax:	

**2. Agent in Service or Agent of Service (if you are an out-of-state company)<sup>4</sup>:**

Name, Title:	CT Corporation System
Address	1999 Bryan Street, Suite 900
City, State:	Dallas, TX
Zip Code	75201

**3. Individual responsible for causing notice to be published:**

Name:	David DeSha
Address	500 Independence Parkway S
City, State:	La Porte, TX
Zip Code	77571
Telephone Number	(423) 413-1218
Alternate Telephone Number	(281) 884-5500
E-mail	desha.david@cleanharbors.com
Fax:	

**4. Public place in county where application will be made available<sup>5</sup>:**

Name	La Porte Branch Library
Address	600 South Broadway Street

City, State

La Porte, TX

Zip Code

77571

**D. Application Type and Facility Status**

**1. Application Type**

- Permit
- New
- Interim status
- Renewal
- RD&D
- Compliance Plan
- Amendment
- Major
- Minor
- Modification
- Class 3
- Class 2
- Class 1<sup>1</sup>
- Class 1

2. Part of a Consolidated Permit Processing request? [30 TAC Chapter 33]

No

3. Does the application contain confidential material?<sup>6</sup>

No

4. Facility Status. Check all that apply

- Proposed
- Existing
- On-Site
- Off-Site
- Commercial
- Recycle
- Land Disposal
- Areal or capacity expansion
- Compliance plan

5. Is the facility within the Coastal Management Program boundary?

Yes

6. Description of Application Changes

Complete Table I.1 - Description of Proposed Application Changes.

**Note: List all changes requested in Table I.1. Unlisted requests risk remaining unaddressed or possibly denied if brought to the permit application reviewer's attention at a later time.**

7. Total acreage of the facility being permitted:

15

8. Identify the name of the drainage basin and segment where the facility is located

River Segment San Jacinto River Tidal

River Basin San Jacinto River Basin

**E. Facility Siting Summary:**



Is the facility located or proposed to be located:

- 1. Within a 100-year floodplain? No
  - 2. in wetlands? No
  - 3. In the critical habitat of an endangered species of plant or animal? No
  - 4. On the recharge zone of a sole-source aquifer? No
  - 5. In an area overlying a regional aquifer? No
  - 6. Within 0.5 mile (2,640 feet) of an established residence, church, school, day care center, surface water body used for a public drinking water supply, or dedicated public park?<sup>7</sup> [30 TAC 335.202] No
- If Yes: the TCEQ shall not issue a permit for this facility.
- 7. In an area in which the governing body of the county or municipality has prohibited the processing or disposal of municipal hazardous waste or industrial solid waste? No
- If Yes: provide a copy of the ordinance or order.

**F. Wastewater and Stormwater Disposition**

- 1. Is the disposal of any waste to be accomplished by a waste disposal well at this facility? No

If Yes: List WDW Permit No(s):

- 2. Will any point source discharge of effluent or rainfall runoff occur as a result of the proposed activities? No

- 3. If Yes, is this discharge regulated by a TPDES or TCEQ permit?  Yes TCEQ Permit No.

TPDES Permit No.

- No Date TCEQ discharge permit application filed

Date TPDES discharge permit application filed:

**G. Information Required to Provide Notice**

State Officials List [ 30 TAC 39]

State Senator

The Honorable Carol Alvarado  
P.O. Box 12068  
Capitol Station  
Austin, TX 78711

State Representative

Texas State House  
Representative District 144  
Representative Mary Perez  
P.O. Box 2910  
Austin, TX 78768

Local Officials List [30 TAC 39]

Mayor

The Honorable Mayor Louis R Rigby  
604 W Fairmont Parkway  
La Porte, TX 77571

Local Health Authority

City of La Porte Health Authority  
Oscar Boultinghouse, M.D.  
604 W Fairmont Parkway La Porte,  
TX 77571

County Judge

The Honorable Lina Hidalgo Harris  
County Courthouse 1001 Preston  
St Ste 911  
Houston, TX 77002-1817

County Health Authority

Umair A Shah Md Mph Executive  
Director  
Harris Co Public Hlth Svces 2223 W  
Loop South Houston, TX 77027

Mr Michael Schaffer Mba  
Director Harris Co Env Public Hlth  
101 So Richey St Ste G  
Pasadena, TX 77506-1023

The Honorable Adrian Garcia  
Harris Co Commissioner 1001  
Preston St Ste 924  
Houston, TX 77002-1863

Based on the questions in the Bilingual Notice Instructions for this form, are you required to make alternate (Bilingual) notice for this application?

No

Bilingual Language(s):

TCEQ Core Data Form Submitted?(see Section I Instructions, Item b.)

Yes

Has any information changed on the TCEQ Core Data Form since the last submittal?

Yes

Signature on Application Submitted?  
(see Section I Instructions, Item c)

Yes

1. Individual, Corporation, or Other Legal Entity Name - must match the Secretary of State's database records for the Facility)
2. If the application is submitted on behalf of a corporation, please identify the Charter Number as recorded

with the Office of the Secretary of State for Texas.

3. The operator has the duty to submit an application if the facility is owned by one person and operated by another [30 TAC 305.43(b)]. The permit will specify the operator and the owner who is listed on Part A of this application [Section 361.087, Texas Health and Safety Code].
4. If the application is submitted by a corporation or by a person residing out of state, the applicant must register an Agent in Service or Agent of Service with the Texas Secretary of State's office and provide a complete mailing address for the agent. The agent must be a Texas resident.
5. For applications for new permits, renewals, major amendments and Class 3 modifications a copy of the administratively complete application must be made available at a public place in the county where the facility is, or will be, located for review and copying by the public. Identify the public place in the county (e.g., public library, county court house, city hall), including the address, where the application will be made available for review and copying by the public.
6. For confidential information cross-reference the confidential material throughout the application to Section XIII: Confidential Material, and submit as a separate Section XIII document or binder conspicuously marked "CONFIDENTIAL".
7. Use only for a new commercial hazardous waste management facility or areal expansion of an existing commercial hazardous waste management facility or unit of that facility as defined in 30 TAC 335.202



## Attachment 3



**Signature Page**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Operator Signature: David DeSha Date: 12/1/2021

Name and Official Title (type or print): David DeSha / Director Environmental Compliance

Owner Signature: David DeSha Date: 12/1/2021

Name and Official Title (type or print): David DeSha / Director Environmental Compliance

To be completed by the operator if the application is signed by an authorized representative for the operator

I, \_\_\_\_\_ hereby designate \_\_\_\_\_  
(operator) (authorized representative)

as my representative and hereby authorize said representative to sign any application, submit additional information as may be requested by the Commission; and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my authorized representative support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

\_\_\_\_\_  
Printed or Typed Name of Operator or Principal Executive Officer

\_\_\_\_\_  
Signature

(Note: Application Must Bear Signature & Seal of Notary Public)

Subscribed and sworn to before me by the said David DeSha on this

1 day of December, 2021.

My commission expires of the 13 day of December, 2022

[Signature]

Notary Public in and for

Hamilton County, Tennessee



**Signature Page**

I, David DeSha, Director Environmental Compliance,  
(Operator) (Title)

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: David DeSha Date: 12/1/2021

**To be completed by the Operator if the application is signed by an Authorized Representative for the Operator**

I, \_\_\_\_\_, hereby designate \_\_\_\_\_  
[Print or Type Name] [Print or Type Name]

as my representative and hereby authorize said representative to sign any application, submit additional information as may be requested by the Commission; and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my authorized representative in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

Printed or Typed Name of Operator or Principal Executive Officer

Signature



SUBSCRIBED AND SWORN to before me by the said David Desha  
On this 1 day of December, 2021

My commission expires on the 13 day of December, 2022

Notary Public in and for Hamilton County, TN ~~Texas~~  
[Note: Application Must Bear Signature & Seal of Notary Public]

*[Handwritten Signature]*



## Attachment 4



**Table I.1-Description of Proposed Application Changes**

Permit/Compliance Plan Application Appendix/Section	Brief Description of Proposed Change	Modification or Amendment Type	Supporting Regulatory Citation
Part A	Update new facility contact (i.e., new General Manager) & Tables III-1A-B & III-2 to show autoclaves	Class 2 Permit Modification	30 TAC 305.69(c)
Part B - Section V	Increase in Warehouse II (CSA2) secondary containment without container storage capacity increase in order to provide drainage trenches for RMW equipment	Class 2 Permit Modification	30 TAC §305.69(k).F(2)a
Part B - Sections I, III & V	Add Autoclave 1 & Autoclave 2	Class 2 Permit Modification	30 TAC §326, Subchapter F
Part B - Section III	Update Emergency Coordinator List	Class 1 Permit Modification	30 TAC §305.69(k).B(6)d



**Texas Commission on Environmental Quality**  
**Permit Application for a Hazardous Waste Storage/Processing/Disposal Facility**  
**Part A - Facility Background Information**

I. General Information

A. Facility Name: CLEAN HARBORS LA PORTE, LLC

(Individual, Corporation, or Other Legal Entity Name)

TCEQ Solid Waste Registration No: 50225 EPA I.D. No.: TXD982290140

Street Address (If Available): 500 INDEPENDENCE PARKWAY SOUTH

City: LA PORTE, State: TEXAS Zip Code: 77571

County: HARRIS

Telephone Number: (281) 884-5000 Charter Number:  
800102165

If the application is submitted on behalf of a corporation, please identify the Charter Number as recorded with the Office of the Secretary of State for Texas.

B. Facility Contact

1. List those persons or firms who will act as primary contact for the applicant during the processing of the permit application. Also indicate the capacity in which each person may represent the applicant (engineering, legal, etc.). The person listed first will be the primary recipient of correspondence regarding this application. Include the complete mailing addresses and phone numbers.

Steve Walker, General Manager  
Clean Harbors LaPorte LLC  
500 Independence Parkway South  
La Porte, Texas 77571  
(281) 884-5507

2. If the application is submitted by a corporation or by a person residing out of state, the applicant must register an Agent in Service or Agent of Service with the Texas Secretary of State's office and provide a complete mailing address for the agent. The agent must be a Texas resident.

CT Corporation System.  
350 North St. Paul Street  
Dallas, TX 75201

Table III-1A - Hazardous Wastes and Management Activities (Off Site Generated)

Verbal Description Of Waste (Off Site Generated)	TCEQ Waste For Code and Classification Code	EPA Hazardous Waste Number	Waste Management Activities						Annual Quantity Generated and/or Received
			Off-site			On-site			
			Storage <sup>1</sup>	Processing <sup>2</sup>	Disposal	Storage <sup>1</sup>	Processing <sup>2,3</sup>	Disposal <sup>3,4</sup>	
Class I wastes	N/A	N/A	X	X	X	X	X		VARIES
Class II wastes	N/A	N/A	X	X	X	X	X		VARIES
Municipal solid wastes	N/A	N/A	X	X	X	X			VARIES
Lab Packs	N/A	N/A	X	X	X	X	X <sup>5</sup>		VARIES
Organic gases	N/A	N/A	X	X	X	X	X <sup>5</sup>	X <sup>5</sup>	VARIES
Inorganic gases	N/A	N/A	X	X	X	X	X <sup>5</sup>	X <sup>5</sup>	VARIES
Organic liquids	N/A	N/A	X	X	X	X	X <sup>5</sup>		VARIES
Organic solids	N/A	N/A	X	X	X	X	X <sup>5</sup>		VARIES
Organic sludge	N/A	N/A	X	X	X	X	X <sup>5</sup>		VARIES
Aqueous inorganics	N/A	N/A	X	X	X	X	X <sup>5</sup>		VARIES
Inorganic sludges	N/A	N/A	X	X	X	X	X <sup>5</sup>		VARIES
Inorganic solids	N/A	N/A	X	X	X	X	X <sup>5</sup>		VARIES
Inorganic liquids	N/A	N/A	X	X	X	X	X <sup>5</sup>		VARIES
Class II regulated medical waste	N/A	N/A	X	X	X	X	X <sup>5</sup>		VARIES

Notes:

<sup>[1]</sup> "Storage" means the holding of solid waste for a temporary period, at the end of which the waste is processed, disposed of, or stored elsewhere.

<sup>[2]</sup> "Processing" means the extraction of materials, transfer, volume reduction, conversion to energy, or other separation and preparation of solid waste for reuse or disposal, including the treatment or neutralization of hazardous waste, designed to change the physical, chemical, or biological character or composition of any hazardous waste so as to neutralize such waste, or so as to recover energy or material from the waste or so as to render such waste non-hazardous or less hazardous; safer for transport, store or dispose of; or amenable for recovery, amenable for storage, or reduced in volume. The "transfer" of solid waste for reuse or disposal as used above, does not include the actions of a transporter in conveying or transporting solid waste by truck, ship, pipeline, or other means. Unless the Executive Director determines that regulation of such activity is necessary to protect human health or the environment, the definition of "processing" does not include activities relating to those materials exempted by the Resource Conservation and Recovery Act, 42 U.S.C. 6901 et seq., as amended.

<sup>[3]</sup> Represents wastes that are allowed to be managed in the Facility's treatment units.

<sup>[4]</sup> Disposal of oxygen only.

<sup>[5]</sup> For wastes without EPA codes that have an 'X' in their processing and/or disposal onsite box.

CFR - Code of Federal Regulations

EPA - Environmental Protection Agency

% - percent

lbs - pounds

TCEQ - Texas Commission of Environmental Quality

Table III-1B - Hazardous Wastes and Management Activities (On Site Generated)

Verbal Description Of Waste (On Site Generated)	TCEQ Waste For Code and Classification Code	EPA Hazardous Waste Number	Waste Management Activities						Annual Quantity Generated (lbs) In 2019
			Off-site Storage <sup>1</sup>	Processing <sup>2</sup>	Disposal	Storage <sup>1</sup>	Processing <sup>2</sup>	Disposal	
Empty metal containers (Non hazardous)	12003081	None			X	X			0
Discarded aerosol cans, last contained paint (hazardous)	1300801H	D001, D035	X	X	X	X			200
Crushed metal, plastic paint cans and contaminated debris containing residual unusable paint from painting of warehouse floors.	1500403H	D001, D007, D008	X	X	X	X			0
Contaminated PPE and debris with PCB	18003941	None	X	X	X	X			0
Acidic Solution from treatment of basic wastes	2006110H	D002, U092	X	X	X	X			9000
Basic Solution from Hydrolysis	2007110H	D001, D002, D004, D010, P095, U006, U033, U138	X	X	X	X			25000
Cleanout of hydrolysis unit	2008113H	D001, D002, D004, D010, P095, U006, U033, U138	X	X	X	X			4000
Solvent Flush	2014204H	D001 D003, F003 F005	X	X	X	X			600
Class 1 waste / trash	20153191	None	X	X	X	X			80000
Non Hazardous Rinse from cylinders	20201191	None	X	X	X	X			400
Cylinders Inorganic non hazardous waste	20227011	None	X	X	X	X			50
Cylinders containing hazardous waste	2023801H	D001 D002 D003 D004 D010 D043 P031 P033 P056 P063 P076 P078 P095 P096 U006 U033 U043 U092 U098 U099 U115 U133 U134 U135 U154 U220	X	X	X	X			400
Cylinders containing non hazardous waste	20248011	None	X	X	X	X			5
Aerosols generated from commodity program	2025801H	D001, D003	X	X	X	X			0
Sump water contaminated with F032	2026101H	F032	X	X	X	X			0
Carbon from transfer of tanker load of RVFOR101B	2027310H	D018, D021, D027	X	X	X	X			0
Ballast from fluorescent light tubes	20304971	None	X	X	X	X			0
Diesel from old fire tank	2031219H	D018	X	X	X	X			0
Dilution of reactives with solvent	2032219H	D001, P073	X	X	X	X			0
Inorganic hazardous waste gas	2033701H	D001 D002 D003 D004 D010 P031 P033 P056 P063 P076 P078 P095 P096 U006 U033 U092 U098 U099 U115 U133 U134 U135	X	X	X	X			1
Wastewaters from medical waste treatment unit	00011142	NA	X	X	X	X			3000000
Notes:									
<sup>[1]</sup> "Storage" means the holding of solid waste for a temporary period, at the end of which the waste is processed, disposed of, or stored elsewhere.									
<sup>[2]</sup> "Processing" means the extraction of materials, transfer, volume reduction, conversion to energy, or other separation and preparation of solid waste for reuse or disposal, including the treatment or neutralization of hazardous waste, designed to change the physical, chemical, or biological character or composition of any hazardous waste so as to neutralize such waste, or so as to recover energy or material from the waste or so as to render such waste non-hazardous or less hazardous; safer for transport, store or dispose of, or amenable for recovery, amenable for storage, or reduced in volume. The "transfer" of solid waste for reuse or disposal as used above, does not include the actions of a transporter in conveying or transporting solid waste by truck, ship, pipeline, or other means. Unless the Executive Director determines that regulation of such activity is necessary to protect human health or the environment, the definition of "processing" does not include activities relating to those materials exempted by the Resource Conservation and Recovery Act, 42 U.S.C. 6901 et seq., as amended.									
EPA - Environmental Protection Agency									
lbs - pounds									
TCEQ - Texas Commission of Environmental Quality									

**Table III-2 - Hazardous Waste Management Unit Checklist**

Waste Management Unit	TCEQ N.O.R. Unit Number	Status <sup>1</sup>	Design Capacity (gallons)	Number of Years Utilized	Date in Service
Warehouse I Container Storage Area	1	Active	403,960	32	4/6/1988
Warehouse II Container Storage Area	3	Active	264,970	30	8/29/1989
Warehouse III Container Storage Area	4	Active	395,340	30	7/12/1990
Chemical Reactor Tank: R-1	26	Active	200	13	6/4/2007
Chemical Reactor Tank: R-1A	27	Active	500 / 1,500 (Proposed)	15	4/18/05
Cylinder Release Unit 1	28	Active	*	15	3/25/2005
Cylinder Release Unit 2	32	Proposed	*	NA	NA
Bulk Container Storage Area	33	Proposed	181,777	NA	NA
Autoclave #1		Active	6,000 lbs/Cycle	NA	NA
Autoclave # 2		Proposed	6,000 lbs/Cycle	NA	NA

Notes:

[1] Indicate only one of the following: Active, Inactive, Closed, or Proposed

\* Unit is a series of tubing, piping and valves from the cylinder connection to the atmosphere with no capacity to measure regarding storage or possessing - it is direct a release unit.

TCEQ - Texas Commission of Environmental Quality

NA - not applicable

N.O.R. - Notice of Registration



### Professional Engineer Certification

Container Storage Area 2 (Warehouse II) is a 14,288 ft<sup>2</sup> concrete pad surrounded by metal framed building designed and managed to meet the requirements of 40 CFR Subpart I (264.170-264.178), and 270.15 and Title 30, Texas Administrative Code, Chapter 326, Subchapter F.

The engineering seal affixed below provides assurance that the document sections have been reviewed by me, the information presented is consistent with the engineering drawings and that the work is consistent with accepted engineering principles and practices.

### Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature 

Date Dec 01/21

J. W. Caldwell  
Texas PE # 94038



## ENGINEERING REPORT - CONTAINER STORAGE AREA 2

### GENERAL INFORMATION

This Engineering Report contains details specific to Container Storage Area 2 (TCEQ unit 2, NOR 003) of the Clean Harbors LaPorte, LLC. For additional details on this unit see: Overall Facility Plan included in the General Engineering Report (Appendix V.A of the Part B application); Tables V.A and V.B of Part B application. Below is a list of drawings for Container Storage Area 2:

Drawing No. 67LT-7200-501

Drawing No. 67LT-7200-502

Container Storage Area 2 (Warehouse II) is located west of Warehouse III and south of the firewater collection basin. The container storage area is an enclosed metal frame building protecting the container storage area from precipitation and weather-related concerns and has a reinforced concrete floor with perimeter curbs. Because the building is completely enclosed, no stormwater containment is required. The approximate dimensions of Warehouse II are 76 feet wide by 188 feet long. Storage and staging areas at each warehouse have concrete bases and are covered by the building enclosure. All floor drains have been plugged using concrete, and the floors have been sealed with an epoxy coating. Warehouse II is currently subdivided into three areas in accordance with previous permitted configurations; although remaining a single HWMU. The perimeter curbs are a minimum of 6-inch high reinforced concrete with 1-inch deep keys and water stops to seal the curb/slab interface. Additional interior curbing separates the subdivided areas; however, these are for the operational convenience of the owner and may be altered as the owner deems fit. Either a gently sloped concrete berm or metal ramp is provided for safe movement of container handling equipment over the curbs between the subdivided areas within each container storage and staging area. Drawing No. 67LT-7200-501 attached to this Engineering Report show construction details for Warehouse II (i.e., curbs, dimensions).

Additional containment is provided in Warehouse II by washdown trenches that have a total length of 317 feet. The trenches have a nominal 10-inch width and 10-inch depth. In addition, an Autoclave pit is provided that is 42.25 feet long by 15.5 feet width by 1.75 feet deep.

Warehouse II is located outside a 100-year flood plain (see FEMA Map attached to Section II.F) and is more than 15 meters (50 ft) from the property line as required by 40 CFR 264.176 (see the Overall Facility Plan drawing attached to Appendix V.A). Design details can be found in the attached drawings and containment calculations.

As shown on Table V.B of the Part B application, Warehouse II is designed to store 264,970 gallons (4,816 55-gallon drum equivalents) in DOT containers that contain a wide variety

of organic and inorganic wastes including wastes that may be reactive or incompatible. Specific waste numbers are found on Table IV.B and Table V.B of the Part B application.

The remaining sections below are structured based on the requirements of 40 CFR 264.171-264.173 and 264.175-264.177. The information outlined in 40 CFR 270.15 is described in these sections, particularly the Containment section and associated drawings and calculations.

#### §264.171 Condition of Containers

Containers are unloaded under the covered areas at the loading/unloading docks and will be staged in these areas. Containers received by truck are unloaded at the docks adjacent to Warehouse II. These docks are covered and have secondary containment in the event of a release. Containers unloaded in these areas will be staged in the immediate dock area for inspection, segregation, and repackaging (if necessary).

Prior to moving any container into a storage area, it will be inspected for leaks and the condition of the container. The Waste Profile Record and any sample analysis required under the facility WAP will be used to determine the appropriate area within the facility for storage.

The wastes received in these areas are stored in a compatible manner. That is, they will be compatible with the storage containers as well as the wastes that are stored in the same container storage area. Regulated containers received at the facility will meet U.S. Department of Transportation (DOT) requirements for the applicable means of transportation (road or railroad). Only containers in good condition, free of excessive rust or structural defects, will be used for storage. Wastes to be received by the facility will come to the facility packaged in various sizes of containers, including but not limited to 5-gallon to 55 gallon drums, supersacks, one yard boxes, and portable tanks. Additionally, over pack containers of various sizes will be utilized for release minimization purposes.

Containers holding hazardous waste will remain closed during storage and handling, except when it is necessary to sample, inspect, add, or remove waste. Containers of hazardous waste will be handled, stored and disposed of in a manner so as to minimize spillage or leakage of waste from the container. Drums will normally be sealed (bunged tight or tops fastened tight). Containers holding hazardous waste will not be opened, handled, or stored in a manner that may rupture it, cause it to leak, or otherwise jeopardize the integrity of the container.

Clean Harbors La Porte will receive regulated medical waste on site for storage and treatment via autoclaves, as well as repackaging and consolidation for subsequent offsite transportation for offsite treatment/disposal. Medical waste treated onsite will be compacted and shipped offsite for final disposal. See Appendix V.K.iii for additional information.

Hazards in unloading will be minimized through the proper training of the facility staff as provided in the Personnel Training Plan described in Section III of this Part B application. Spill response is detailed in the Contingency/Emergency Response Plan in Section III.

Methods will be employed to minimize air emissions related to the management of containers at this facility in accordance with 40 CFR 270.27 and 40 CFR 264, Subpart CC. These requirements apply to all wastes which have an average Volatile Organic Compound (VOC) concentration of 500 parts per million by weight or greater. These requirements apply at the point of waste origination, defined as the point where the facility accepts the waste(s). Procedures to ensure compliance with any applicable air emission requirements are presented in Section X of this Part B application.

### §264.172 Compatibility of Waste with Containers

The container storage portions of the warehouse are segregated into three subdivided areas by concrete curbs and berms. The owner plans to use these subdivided areas in the container storage area for additional operational controls, allowing for flexibility in storage of waste types, including segregation of incompatible wastes. However, the owner reserves the right to alter the arrangement of these subdivided areas, either by removing or relocating the concrete curbs, as deemed appropriate. Each subdivided area is used only to store wastes which are compatible. Flammable liquids are restricted to storage in Warehouse III only. These practices comply with the requirements of 40 CFR 264.177(c). Flammable and incompatible waste types will be managed in accordance with the requirements of the operating permit.

Each drum to be stored will be evaluated using the supplied waste profile record (WPR). The wastes are typically segregated into hazard class compatibility groups as indicated in the following list:

#### HAZARD CLASS COMPATIBILITY GROUPS

Group	Group
Oxidizer	Combustible/Flammable
Organic Peroxide	Reactive
Polychlorinated Biphenyl	Lab Packs
Alkaline	Otherwise Regulated Material
Acid	Non Hazardous/ Non regulated

There may be coexisting compatibility groups in the same container storage area, or an individual storage area may be limited to one compatibility group only. Compatibility of the wastes will be confirmed using the Waste Profile Record, any WAP required sample analysis, and reference documents such as "A METHOD FOR DETERMINING THE COMPATIBILITY OF HAZARDOUS WASTES" (EPA Document EPA 600/2 80 076).



Activities to be conducted by the facility do not include blending or comingling of potentially incompatible waste materials. In accordance with 40 CFR 264.177(a), incompatible wastes or wastes and materials will generally not be placed in the same container unless specific analysis, trial testing, or established reference literature supports that an adverse reaction, as listed in 40 CFR 264.17(b), will not occur. Furthermore, hazardous waste will not be placed into an unwashed container that previously held an incompatible waste or material as required by 40 CFR 264.177(b). Therefore, the compatibility concerns are limited to the possibility of leaks from containers within a storage area mixing with leaks from another container during a spill or emergency. Compatibility concerns include the potential for fire, generation of toxic and flammable gases, explosion, and violent polymerization. Accordingly, wastes which have the potential to cause these types of reactions will not be stored within the same subdivided area.

If the generator does not provide sufficient information to determine that the waste is potentially incompatible with any of the wastes stored in a required container storage area, the waste will either be rejected, or additional analysis will be conducted by a contract laboratory prior to storage.

The EPA sponsored compatibility method allows determinations by type of waste and Standard Industrial Classification code of the generator. The resulting compatibility determination is, by design, conservative and eliminates the need for waste analyses.

In terms of the storage requirements for aisle space and maximum pile size under the applicable NFPA 30, these "generally compatible" wastes will be treated the same as the major waste type with which they are stored until removed from the storage area. For example, if a pH neutral oil is stored in a Class II flammable waste storage area, the drums containing the pH neutral oil will be included in determining the allowable size of the container piles within that area.

### §264.173 Management of Containers

Staging areas used for temporary holding, weighing, and etc., also have concrete curbs for secondary containment. Concrete berms or steel ramps are used to pass over the curbed containment between sub areas of the storage areas or to exterior locations outside the warehouses.

The following table summarizes the contained surface areas, rated storage capacities, required secondary containment capacity (10 percent of storage capacity), and the available secondary containment capacity provided by the 6-inch high curbs, trenches and autoclave pit. Footnotes to the table describe how the quantities were derived. Based on these quantities and available secondary containment volumes, each container storage area has more than the secondary containment capacity required by 40 CFR 264.175(b)(3).

Staging areas located adjacent to the Warehouse II container storage area are used only for temporary container holding while loading, unloading, segregating, weighing, and repackaging containers. They are not, however, used for container storage. The maximum volume of wastes held in each of the four staging areas will not exceed 8,800 gallons (160 55-gallon drum equivalents). For purposes of secondary containment, six-inch high concrete curbing also encloses the staging areas, providing well in excess of 10 percent of the temporarily held container volume. The maximum total container storage capacity, for purposes of permit limitations and closure cost calculations, is 264,970 gallons, exclusive of allowable staging area volumes.

Generally, containers used for waste storage will be kept on pallets (typically 4 to 4.5 inches high) with the majority of them subsequently elevated further on the storage racks. If 10 percent of the containers, which may hold liquids, leak their entire contents, the maximum depth of accumulated liquid within any of the subdivided storage area will be less than 2.5 inches. Thus, the pallets and rack storage will prevent the design spill from contacting the bottoms of the containers. This condition precludes the need to slope the floors in order to drain and remove spilled liquids in accordance with 40 CRF 264.175(b)(2).

Spills will normally be managed by the use of absorbents and will be removed in a timely manner. Should a large spill occur, other means (such as a vacuum truck or a temporary tank) may be used. Should a tank be used, proper notification will be provided to the TCEQ and the tank will be operated in accordance with 90-day storage requirements. Based on the computed volumes for secondary containment, the excess capacity will provide an ample factor of safety to prevent overflow of the systems used to collect the spill.

## §264.175 Containment

Warehouse II is built to the following specifications in compliance with 40 CFR 261.175 (b) (1):

Concrete base: **4” minimum** thickness, 3,000 psi, with rebar reinforcing. Sub-base loading is minimum 1,500 psi.

All container storage areas are curbed for containment, and are monolithic in character. Where a joint exists, a chemical resistant backer rod is embedded in the joint, below the slab surface. Curb heights vary depending upon the amount of containment required.

All bases are free of cracks and gaps, and where cracks have developed over time, a suitable filler and sealer has been used. The bases are smooth in appearance without spalling, flaking, or having signs of chemical attack. The areas have significant containment.

The structural integrity of the bases is adequate for the purposes for which they were designed, that is, for chemical containment.

Warehouse II is in an enclosed and covered area therefore rainfall infiltration is not an issue relative to adequate secondary containment capacity.

Containment calculations are attached that show that the containment structure has a volume greater than 10% of the total volume and larger than the largest container (1.1 cubic yard-box container or four 55-gallon drums).

#### §264.176 Special Requirements for Ignitable or Reactive Wastes

All storage areas are at least fifty (50) feet from the property lines as required by 40 CFR 264.176 and applicable NFPA codes. Minimum buffer zone distances for the container storage areas are shown on figures attached to V.A and V.B.2.

#### §264.177 Special Requirements for Incompatible Wastes

As shown in Figure V.B.2 and V.B.2a the container storage portions of Warehouse II are segregated into subdivided into three sub-areas by concrete curbs and berms. The owner plans to use these subdivided areas in the container storage area for additional operational controls, allowing for flexibility in storage of waste types, including segregation of incompatible wastes. However, the owner reserves the right to alter the arrangement of these subdivided areas, either by removing or relocating the concrete curbs, as deemed appropriate. Each subdivided area is used only to store wastes which are compatible. Flammable liquids are restricted to storage in Warehouse III only. These practices comply with the requirements of 40 CFR 264.177(c). Flammable and incompatible waste types will be managed in accordance with the requirements of the operating permit.

Title 30, Texas Administrative Code, Chapter 326, Subchapter F – Medical Waste Management

See Appendix V.K.iii.

## SECONDARY CONTAINMENT CALCULATIONS and CSA2 DRAWINGS



## SECONDARY CONTAINMENT CALCULATIONS

### Container Storage Area 2

Warehouse II dimensions = 188' long x 76' wide, 6" curb

Warehouse II Curb containment capacity =  $188' \times 76' \times 0.5' \times 0.9$  usage factor  $\times 7.48$  gal./c.f. = 48,093 rounded down to 48,000 gallons

Warehouse II Trench Containment capacity =  $317' \times (10/12)' \times (10/12)' \times 7.48$  gal./c.f. = 1,646 rounded down to 1,500 gallons.

Warehouse II Autoclave Pit Containment capacity =  $42.25' \times 15.5' \times 1.75' \times 7.48$  gal./c.f. = 8,572 rounded down to 8,500 gallons

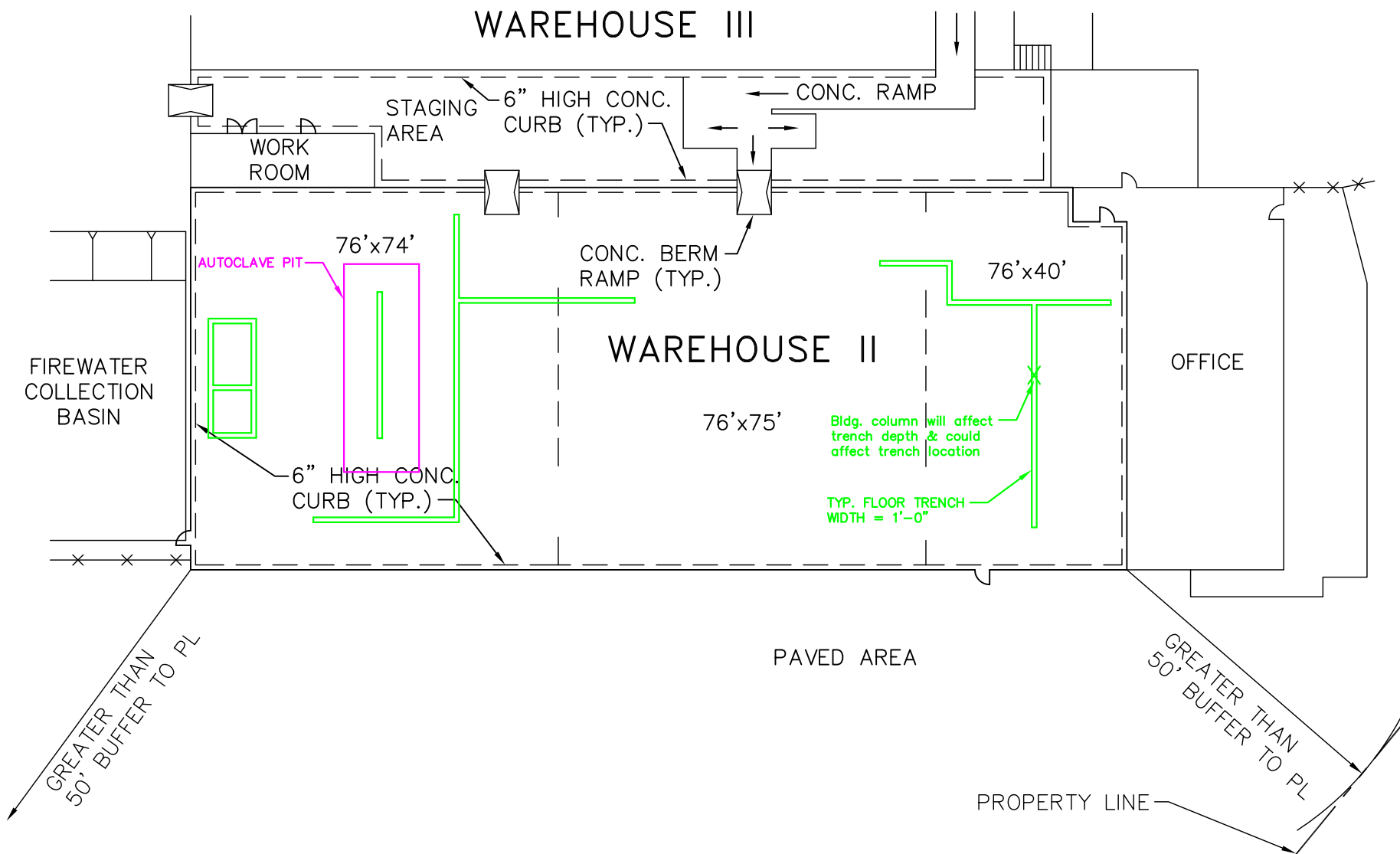
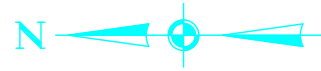
Total Warehouse II containment = 48,000 + 1,500 + 8,500 = 58,000 gallons

Storage capacity = 10x containment capacity = 580,000 gallons

Maximum to be stored = 264,970 gallons

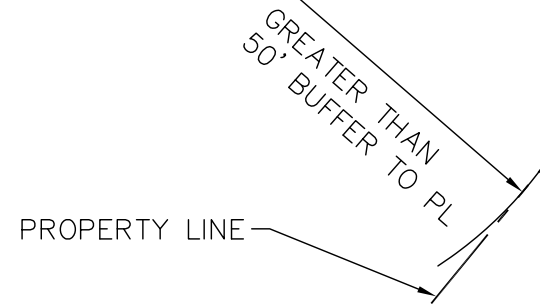
Maximum to be stored is less than storage capacity.

Container Storage Area 2 is covered and surrounded by curb, so precipitation and run on do not need to be included in storage capacity calculations.



**NOTE:**  
 DIMENSIONS ARE APPROXIMATE AND REPRESENT DISTANCE BETWEEN CURBS OF SECONDARY CONTAINMENT SYSTEM. ALL AREAS ESSENTIALLY FLAT.

MODIFIED LAST ON 11-30-21



REV.	DESCRIPTION	DRAWN BY	DATE	APPR. BY
D	ADDED FLOOR TRENCHES	KMC		
C	PERMIT RENEWAL 2020	KMC	5/7/20	DAD
B	FOR PERMIT RENEWAL UPDATE	KMC	3/30/10	S.B.
A	FOR PERMIT RENEWAL	KMC	7/30/09	MAR

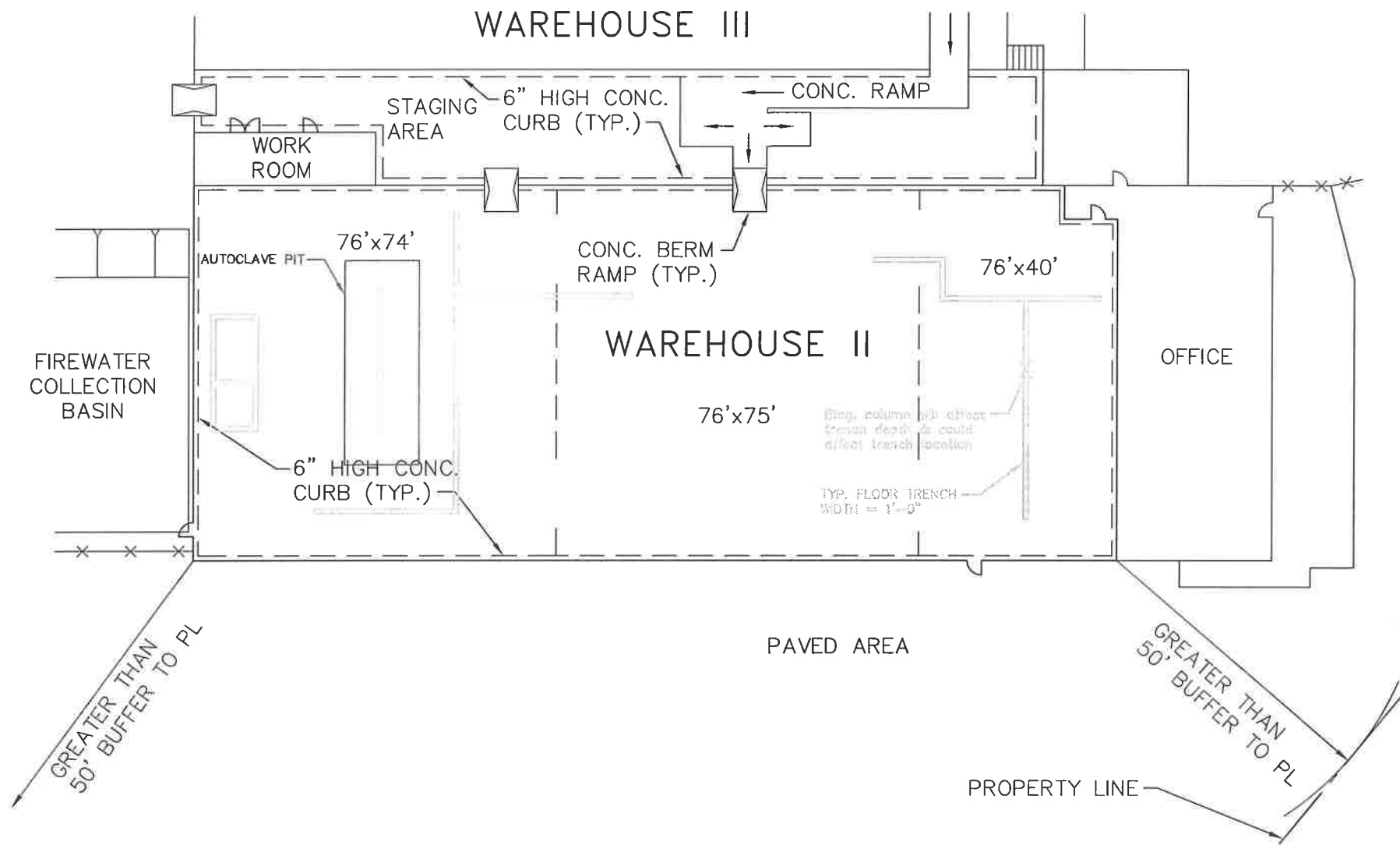


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TITLE  
**CLEAN HARBORS LAPORTE  
 WAREHOUSE II  
 CONTAINER STORAGE AREA**

DRAWN K.M.C.	CHECKED M.A.R.	SCALE 1" = 30'	DATE 07/15/09
-----------------	-------------------	-------------------	------------------

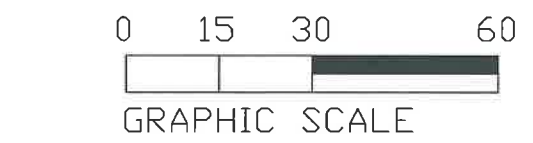
DRAWING NO. <b>67LT-7200-501</b>	REV. <b>D</b>
-------------------------------------	------------------




**NOTE:**  
 DIMENSIONS ARE APPROXIMATE AND REPRESENT DISTANCE BETWEEN CURBS OF SECONDARY CONTAINMENT SYSTEM. ALL AREAS ESSENTIALLY FLAT.



MODIFIED LAST ON 11-30-21



REV.	DESCRIPTION	DRAWN BY	DATE	APPR. BY
D	ADDED FLOOR TRENCHES	KMC		
C	PERMIT RENEWAL 2020	KMC	5/7/20	DAD
B	FOR PERMIT RENEWAL UPDATE	KMC	3/30/10	S.B.
A	FOR PERMIT RENEWAL	KMC	7/30/09	MAR

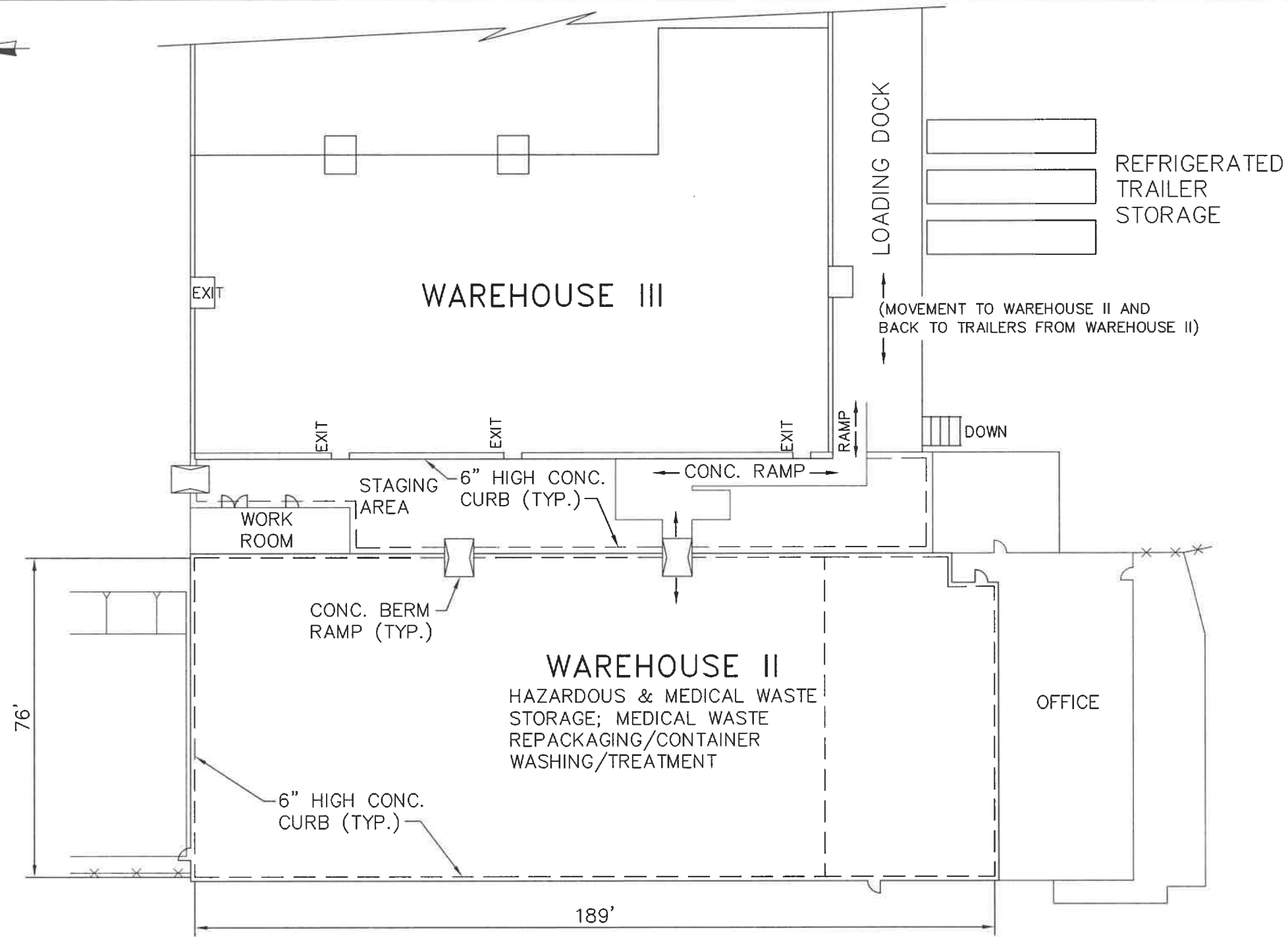
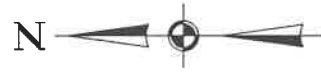


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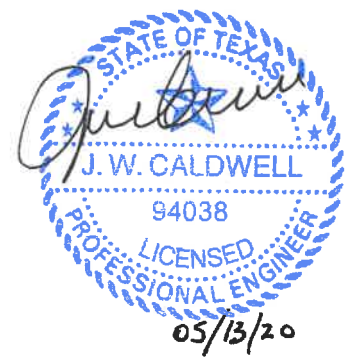
DRAWN	CHECKED	SCALE	DATE
K.M.C.	M.A.R.	1" = 30'	07/15/09

TITLE  
**CLEAN HARBORS LAPORTE  
 WAREHOUSE II  
 CONTAINER STORAGE AREA**

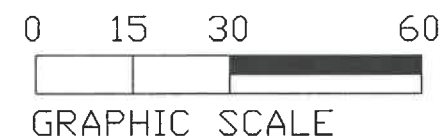
DRAWING NO.	REV.
67LT-7200-501	D



**NOTE:**  
 DIMENSIONS ARE APPROXIMATE AND REPRESENT DISTANCE BETWEEN CURBS OF SECONDARY CONTAINMENT SYSTEM. ALL AREAS ESSENTIALLY FLAT.



PAVED AREA



C	PERMIT RENEWAL 2020	KMC	5/7/20	DAD
B	APRIL 2012	KMC	4/18/12	MC
A	FOR REGISTRATION	KMC	7/30/09	MAR
REV.	DESCRIPTION	DRAWN BY	DATE	APPR. BY



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DRAWN	CHECKED	SCALE	DATE
K.M.C.		1" = 30'	04/21/10

TITLE	CLEAN HARBORS LAPORTE WAREHOUSE II TRANSFER AREA
DRAWING NO.	67LT-7200-502
REV.	C

**Table V.B. - Container Storage Areas**

Permit Unit No.	Container Storage Area	N.O.R. No.	Waste Nos. <sup>4</sup>	Rated Capacity <sup>3</sup>	Dimensions	Containment Volume (including rainfall for unenclosed areas)	Unit will manage Ignitable <sup>1</sup> , Reactive <sup>1</sup> , or Incompatible <sup>2</sup> waste (state all that apply)	Unit Status
001	Warehouse I	001	See Table IV.B	403,960 gallons	202' x 109'	52,757 gallons	Reactive and Incompatible	Active
002	Warehouse II	003	See Table IV.B	264,970 gallons	189' x 76'	58,000 gallons	Reactive and Incompatible	Active
003	Warehouse III	004	See Table IV.B	395,340 gallons	209' x 142'	99,800 gallons	Ignitable, Reactive, and Incompatible	Active
033	Bulk Container Storage Area	036	See Table IV.B	181,777 gallons	110' x 150'	NA (no free liquids)	Incompatible	Proposed
							Remove Last Row	Add Row

1. Containers managing ignitable or reactive waste must be located at least 15 meters (50 feet) from the facility's property line.
2. Incompatible waste must be separated from other waste or materials stored nearby in other containers, piles, open tanks, or surface impoundments by means of a dike, berm, wall, or other device.
3. Container Storage Areas need to include in capacity calculations any nonhazardous wastes and universal wastes managed in the unit in addition to hazardous wastes.
4. from Table IV.B, first column

### Professional Engineer Certification

The engineering seal affixed below provides assurance that the document sections have been reviewed by me, the information presented is consistent with the engineering drawings and that the work is consistent with accepted engineering principles and practices.

### Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature J. W. Caldwell

J. W. Caldwell  
Texas PE # 94038

Date Dec 01/21





## ENGINEERING REPORT – Autoclave 1

This Miscellaneous Unit Engineering Report applies to Autoclave 1 (Permitted Unit # 038). The information in this report is that required by 40 CFR 264.600-264.602, and 270.23. The location of Autoclave 1 is in Warehouse II (i.e., CSA2) shown in Appendix V.A – General Engineering Report. The details of Autoclave 1 are shown in Attachment V.K.iii.a. herein this Miscellaneous Units' Engineering Report.

Table V.K lists the miscellaneous units covered by this application, the waste managed in each unit, and the rated capacity.

Autoclave 1 is not a hazardous waste management unit but a regulated medical waste management and treatment unit. It will be installed in Warehouse II also known as hazardous waste management unit CSA2, and is related to the environment as described in this **report** – see Attachment V.K.iii.a. for complete details. Autoclave 1 can accommodate up to six Autoclave Carts which are processed in a batch-wise basis. The Autoclave is set into a concrete pit to allow the Autoclave Carts to be rolled into the Autoclave at grade. The Autoclave is provided with hydraulically operated doors at the front and back to load and remove Carts from the Autoclave. Hydraulically powered Cart Bridges at the front and back of the Autoclave allow for the Carts to be rolled into and out of the Autoclave manually and then dropped into the pit to allow the hydraulically powered Autoclave doors to be closed.

The Autoclave cycle is controlled by a PLC control panel which heats and pressurizes the Autoclave on a timed cycle before depressurizing the Autoclave at the end of the cycle. Batches are processed through the cycle in about 45 minutes with a further 15 minutes per batch to load and unload the Autoclave. The Autoclave is provided with 150 psig saturated steam from a Steam Boiler for heating and pressurizing. Condensate is collected and returned to the boiler room. A vent from the Autoclave through the roof is used to depressurize and vent steam from the Autoclave at the end of the cycle before the back hydraulic doors are opened.

Hot Autoclave Carts are wheeled from the Autoclave manually at the end of the cycle and staged at the Trash Compactor. Autoclave Carts are manually loaded onto the Cart to Compactor Tipper that lifts the Autoclave Cart and dumps the contents into a Stationary Compactor. A Ram in the Stationary Compactor pushes and compacts the waste into the 40 cubic yard Octagonal Roll Off Compactor. Compacted sterilized medical waste is shipped by truck to a local non-hazardous Subtitle D landfill for disposal. The Tipper and Ram are hydraulically powered from a Power Pack adjacent to the Compactor.

Autoclave 1 is located in Container Storage Warehouse II. Containers to be processed will be secured within Warehouse II. Wastes processed in this unit are materials which are solids that may contain small amounts of liquids at atmospheric temperature and

pressure. These are received in various types and sizes of containers approved for the shipment of regulated medical wastes. After verification of paperwork and inspection of container integrity, the waste contained in the containers are managed following the procedures outlined in the **facility's** Application for Medical Waste Registration (see Attachment V.K.iii.b.). The types of materials to be processed in this unit include various regulated medical wastes excluding body parts. Emissions resulting from the operation of Autoclave 1 consist exclusively of steam. A non-hazardous/non-regulated **medical waste "grey water" will be generated by steam condensate and container rinsates** from Autoclave 1 processes. This wastewater will be collected in a tank and shipped offsite to an approved treatment facility.

Autoclave 1 does not involve combustion, therefore no emissions data or trial burn plan are applicable. Because this unit does not involve combustion, tables such as those similar to Tables V.H.1-5 and Tables V.I.1-5 are also not applicable.

Autoclave 1 will be located within Warehouse II secondary containment. Containment for this Unit will be shared with this Container Storage Area (i.e., CSA2). The Container Storage Area has sufficient secondary containment to allow this unit within its boundaries. The floor of the unit is constructed of reinforced concrete with a six (6)-inch-high perimeter secondary containment curb.

## Attachment V.K.iii.a



Design Specification

For

LaPorte Medical Waste  
Support Facilities  
Front End Engineering Design

Clean Harbors Environmental Services  
500 Independence Parkway South  
LaPorte, Texas 77571

Date: September 1, 2021  
Revision: 1





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## 11.0 Painting and Insulation

11.1 Painting

11.2 Insulation

## 12.0 Demolition and Tie-in List

12.1 Tie-in List

12.2 Demolition







## 1.0 Introduction

The Clean Harbors Environmental Services Facility is located at 500 Independence Parkway South, LaPorte, TX, 77571. The facility handles containerized hazardous wastes for consolidation and transfer to final disposal facilities, manages high hazard pressurized containers, and houses a distribution center to support Clean Harbors Texas facilities.

The facility is split roughly in half with the south buildings supporting the distribution center and containerized hazardous wastes. The north buildings include offices and storage and management of high hazard containers. The south buildings are designated Warehouse II for the distribution center and Warehouse III for containerized hazardous wastes.

It is proposed that the distribution center will be moved out of Warehouse II and be replaced with a new Medical Waste processing facility. The Medical Waste facility represents a new service offering for Clean Harbors in the Texas market to sterilize Regulated Medical Waste (RMW) and Sharps to make them suitable for disposal in a non-hazardous Subtitle D landfill.

Specialized equipment for the sterilization of medical waste and the cleaning of containers for reuse are on order. This purpose of this Front End Engineering Design (FEED) specification is to describe the engineering necessary to provide the utilities and supporting equipment for the medical waste process.



## 2.0 Design Basis and Equipment

### 2.1 Design Basis

#### 2.1.1 General

The Medical Waste Facility is designed to handle 2 and 3 gallon sharps containers, 10 and 17 gallon sharps and pharma waste containers, and 31 and 43 gallon regulated medical waste (RMW) containers. Waste (sharps, pharma and RMW) containers are emptied into carts and the waste is autoclaved at up to 300F to sterilize it for landfilling, while the empty containers are cleaned and recycled back to customers for reuse.

Overall throughput of the facility is designed to be about 2 million lbs. of medical waste in Year 1, growing to 5.4 million lbs. by Year 7.

#### 2.1.2 Container Details

Container Size Gallons	Use	Weight Full Lbs.	Containers per pallet
2 and 3	Sharps	XX	60/roller rack
10		10	27
17		20	18
31	RMW	20	12
43	RMW	26	8

#### 2.1.3 Year 1 Inbound Volume

Container Size Gallon	Quantity/week	Inbound Lbs./week
2 and 3	10-12 racks	XX
10	150 containers	1,500
17	150 containers	3,000
30	1100 containers	22,000
43	100 containers	2,600
TOTAL		29,100

#### 2.1.4 AutoClave Throughput

- 6 Carts per Autoclave
- 500 lbs. per Cart
- 3,000 lbs. per Cycle
- 45-minute Processing Time per Heating/Cooling Cycle
- 1-hour Total Time per Cycle
- 8 Cycles per Autoclave-Shift
- 24,000 lbs. per Autoclave-Shift



## 2.2 Key Medical Waste Equipment

- 2.2.1 Dock Conveyor M-1100 (Supplied by Clean Harbors)
  - Manufacturer - TBD
  - Operation – Rollers, Gravity Only.
  - Sized for – Pallets 48 inch wide
  - Length – 32 feet
  - Material of Construction – Carbon Steel
- 2.2.2 Radiation Detectors M-1101/1119 (Supplied by Clean Harbors)
  - Manufacturer – Atlantic Nuclear Corporation
  - Model – Ludlum Model 375P-1000
  - Widest Opening – Suitable for 48 inch wide pallet
  - Detection Limit – (Cs 137) – 400 cps per  $\mu$ R/h.
  - Power – 120 V
  - Reading – Local Only
- 2.2.3 Scales M-1105/1120 (Supplied by Clean Harbors)
  - Manufacturer – Worcester Scale Co.
  - Model – Avery Tronix DSL-7248
  - Type – Floor Mounted Flush Scale.
  - Sized for – Pallets 48 inches wide and Sharps Rolling Racks 72 inches long.
  - Scale Capacity – 5,000 lbs. x 1 lb.
  - Power – 120 V
  - Reading – Local Only
- 2.2.4 Inbound 31/43 Pallet Conveyors M-1102/1103/1104 (Supplied by Clean Harbors)
  - Manufacturer – TBD
  - Type - Rollers, Gravity Only.
  - Sized for – Pallets 48 inch wide
  - Length – 20 feet
  - Material of Construction – Carbon Steel
- 2.2.5 Inbound Container Tippers M-1106/1107/1108 (Supplied by Mark Costello)
  - Manufacturer – Mark Costello
  - Model – Dual Container to Sterilizer Tipper
  - Cycle Time – 10 seconds per tip. 4 containers per minute.
  - Drive – Hydraulic Power Pack
  - Power – 5 hp each, 460/3/60
  - Material of Construction – Carbon Steel
- 2.2.6 Sterilizer 1 Hydraulic Bridges M-1109/1110 (Supplied by Mark Costello)
  - Manufacturer – Mark Costello
  - Model – XXX
  - Drive – Hydraulic Power Pack
  - Power – Powered by Sterilizer Power Panel
  - Material of Construction – Carbon Steel



- 2.2.7 Sterilizer 1 M-1111 (Supplied by Mark Costello)
  - Manufacturer – Mark Costello
  - Model – AS530DD
  - Capacity – 6 Carts
  - Cycle – 45 minutes
  - Operating Temperature/Pressure – 300 F, 100 psig.
  - Controls – Allen Bradley touch screen PLC
  - Doors – Hydraulic Operated at each end
  - Drive – Hydraulic Power Pack
  - Power – 45 amp, 120 v power panel
  - Material of Construction – Carbon Steel
- 2.2.8 Sterilizer 2 Hydraulic Bridges M-1112/1113 (Future) (Supplied by Mark Costello)
  - Manufacturer – Mark Costello
  - Model – XXX
  - Drive – Hydraulic Power Pack
  - Power - Powered by Sterilizer Power Panel
  - Material of Construction – Carbon Steel
- 2.2.9 Sterilizer 2 M-1114 (Future) (Supplied by Mark Costello)
  - Manufacturer – Mark Costello
  - Model – AS530DD
  - Capacity – 6 Carts
  - Cycle – 45 minutes
  - Operating Temperature/Pressure – 300 F, 100 psig.
  - Controls – Allen Bradley touch screen PLC
  - Doors – Hydraulic Operated at each end
  - Drive – Hydraulic Power Pack
  - Power - 45 amp, 120 v power panel
  - Material of Construction – Carbon Steel
  - Insulation – X Inches with Stainless Steel Jacket
- 2.2.10 Hydraulic Cart to Compactor Tipper M-1115 (Supplied by Mark Costello)
  - Manufacturer – Mark Costello
  - Model - XXX
  - Hydraulic Powered – 10 hp, 460 v
- 2.2.11 Compactor M-1116 (Supplied by Mark Costello)
  - Manufacturer – Mark Costello
  - Model – RJ-550 Stationary Compactor with Extended Ram Penetration
  - Size – 5.5 Cubic Yard
  - Material of Construction – Carbon Steel
- 2.2.12 Tipper Hydraulic Power Pack M-1117 – (Supplied by Mark Costello)
  - Manufacturer – Mark Costello
  - Model – XXX
  - Power – 15 hp, 460 v



- 2.2.13 Octagonal Roll Off Compactor Container M-1118 (Supplied by Mark Costello)
  - Manufacturer - Mark Costello
  - Model – RJ-40-OC
  - Size – 40 Cubic Yard Octagonal Roll Off Compactor
- 2.2.14 Inbound 10/17 Pallet Conveyor before scale M-1121 (Supplied by Clean Harbors)
  - Manufacturer - TBD
  - Operation – Rollers, Gravity Only.
  - Sized for – Pallets 48 inch wide
  - Length – 32 feet
  - Material of Construction – Carbon Steel
- 2.2.15 Inbound 10/17 Pallet Conveyor after scale M-1122 (Supplied by Clean Harbors)
  - Manufacturer - TBD
  - Operation – Rollers, Gravity Only.
  - Sized for – Pallets 48 inch wide
  - Length – 12 feet
  - Material of Construction – Carbon Steel
- 2.2.16 Inbound 10/17 Pallet Conveyor M-1123 decanter feed (Supplied by Clean Harbors)
  - Manufacturer - TBD
  - Operation – Rollers, Gravity Only.
  - Sized for – Pallets 48 inch wide
  - Length – 25 feet
  - Material of Construction – Carbon Steel
- 2.2.17 Automated 10/17 Decanter M-1124 (Supplied by CWS)
  - Manufacturer - CWS
  - Sized for – 10 and 17 gallon Rebig Sharps & RMW Containers
  - Processing Rate – 100-180 containers/hour
  - Power – 30 A. Powered from M-1126 Power Panel
  - Controls – Allen Bradley PLC Controlled, Robotic Arm.
  - Material of Construction – 304 Stainless Steel wetted parts
- 2.2.18 Large Washer 31/43 Feed Conveyor M-1125 (Supplied by CWS)
  - Manufacturer - TBD
  - Operation – Rollers, Powered & PLC Controlled.
  - Sized for – 31 and 43 gallon empty containers
  - Length – XX feet
  - Power – provided by M-126 Power Panel
  - Material of Construction – Carbon Steel
- 2.2.19 Large Tunnel Washer M-1126 (Supplied by CWS)
  - Manufacturer – Unikon, Belgium
  - Sized for – Single feed for 31/43 g containers and attached lids and separate feed for 10/17 g containers and attached lids
  - Operating Temperature/Pressure – 180 F, Atmos Pressure.



- Power – 86 A. Powered by Main Power Panel with 460/3/60 feed. 100 A main fuse.
  - Controls – Not PLC controlled
  - Processing Rate – 200-300 Containers/hour, variable speed.
  - Material of Construction – 304 Stainless Steel wetted parts.
- 2.2.20 Large Washer Discharge Conveyor M-1127 (Supplied by CWS)
- Manufacturer - TBD
  - Operation – Rollers, Gravity Only.
  - Sized for – 10/17/31/43 gallon empty containers
  - Length – XX feet
  - Material of Construction – Carbon Steel
- 2.2.21 Outbound Pallet Conveyor M-1128 (Supplied by Clean Harbors)
- Manufacturer - TBD
  - Operation – Rollers, Gravity Only.
  - Sized for – 48 inch x 48 inch plastic pallets
  - Length – XX feet
  - Material of Construction – Carbon Steel
- 2.2.22 Shrink Wrap Machine M-1129
- Manufacturer – Lantech
  - Model – QL-400
  - Sized for – 48 inch wide pallets, XX inches high
  - Power – 120 V
  - Processing Rate – 25 pallets/h
  - Material of Construction – Carbon Steel
- 2.2.23 Automated Sharps Decanter M-1130 (Supplied by CWS)
- Manufacturer - CWS
  - Power – 30 A. Powered by Sharps Tunnel Washer Power Panel.
  - Sized for – 2-3 gallon Rebig Sharps Containers
  - Processing Rate – 100-220 containers/hour
  - Controls – Allen Bradley PLC, Robotic Arm
  - Material of Construction – 304 Stainless Steel wetted parts
- 2.2.24 Sharps Tunnel Washer M-1131 (Supplied by CWS)
- Manufacturer – Unikon, Belgium.
  - Sized for – Single Feed; Containers and attached Lids
  - Operating Temperature/Pressure – 200 F, Atmos Pressure.
  - Power – 86 A. Powered by Main Power Panel with 460/3/60 feed. 100 A main fuse.
  - Controls – Not PLC controlled
  - Processing Rate – 100-300 Containers/hour
  - Material of Construction – 304 Stainless Steel wetted parts
- 2.2.25 Small Washer Discharge Conveyor M-1132 (Supplied by CWS)
- Manufacturer - TBD





Operation – Rollers, Gravity Only.  
Sized for – Sharps 2-3 gallon washed containers  
Length – XX feet  
Material of Construction – Carbon Steel

2.2.26 Electronic Gate M-1134 (Supplied by Clean Harbors)

Manufacturer - TBD  
Operation – Rollers, Remote Open and Close.  
Width – XX feet  
Power – 120 V  
Material of Construction – Carbon Steel

2.3 Utilities

2.3.1 RO Water Feed Tank T-9301 (Supplied by Clean Harbors)

Manufacturer – TBD  
Tank Capacity – 10,000 Gallons  
Tank Dimensions – XX Dia. x XX High  
Operating Temperature/Pressure – 50-100F, Atmos. Pressure.  
Material of Construction – Carbon Steel

2.3.2 RO Water Pump P-9302 (Supplied by Clean Harbors)

Manufacturer – TBD  
Model – XX  
Type – XX  
Operating Temperature/Pressure – 50-100F, 60 psig (TBD)  
Operating Flow Rate – 12 gpm  
Power – 460/3/60  
Material of Construction – Carbon Steel.

2.3.3 Reverse Osmosis Package M-9303 (Supplied by Clean Harbors)

Manufacturer – XX  
Model – XX  
RO Capacity – 12 gpm  
RO Dimensions – XX Dia x XX High  
Recovery Rate – XX %  
Operating Temperature/Pressure –  
Material of Construction – XX

2.3.4 Wastewater Tank T-9401(Supplied by Clean Harbors)

Manufacturer – XX  
Tank Capacity – 10,000 Gallons  
Tank Dimensions – XX Dia x XX High  
Operating Temperature/Pressure – 50-100 F, Atmos. Pressure.  
Material of Construction – Carbon Steel

2.3.5 Wastewater Pump P-9402 (Supplied by Clean Harbors)

Manufacturer – TBD



Model – XX  
Type – XX  
Operating Temperature/Pressure – 50-100F, 20 psig  
Operating Flow Rate – 250 gpm  
Power – 460/3/60  
Material of Construction -

2.3.6 Sterilizer Air Compressor Package C-9701 (Supplied by Mark Costello)

Manufacturer – XX  
Model – XX  
Type – XX  
Operating Temperature/Pressure  
Operating Flow Rate  
Power –  
Material of Construction -

2.3.7 Washer Air Compressor Package C-9702 (Supplied by Clean Harbors)

Manufacturer – XX  
Model – XX  
Type – XX  
Operating Temperature/Pressure  
Operating Flow Rate  
Power –  
Material of Construction -

2.3.8 150 hp Steam Boiler F-9901 (Supplied by Mark Costello)

Manufacturer – W&D (Williams and Davis)  
Model – 215OD  
Type – Scotch Marine Fire Tube Boiler  
Rating – 150 boiler horsepower (bhp)  
Operating Temperature/Pressure – 368F, 150 psig  
Fuel – Natural Gas

2.3.9 Boiler Feed Water Tank T-9902 (Supplied by Mark Costello)

Manufacturer – W&D (Williams and Davis)  
Model – XX  
BFW Tank Capacity – XX Gallons  
BFW Tank Dimensions – XX Dia x XX High  
Operating Temperature/Pressure –  
Material of Construction – Carbon Steel

2.3.10 Boiler Feed Water Pumps P-9903/9904 (Supplied by Mark Costello)

Manufacturer – W&D (Williams and Davis)  
Model – XX  
Type – XX  
Operating Temperature/Pressure  
Operating Flow Rate



- Power –
- Material of Construction -
- 2.3.11 Condensate Receiver Tank T-9905 (Supplied by Mark Costello)
  - Manufacturer – W&D (Williams and Davis)
  - Model – XX
  - Condensate Tank Capacity – XX Gallons
  - Condensate Tank Dimensions – XX Dia x XX High
  - Operating Temperature/Pressure –
  - Material of Construction -
- 2.3.12 Boiler Blowdown Tank T-9906 (Supplied by Mark Costello)
  - Manufacturer – W&D (Williams and Davis)
  - Model – XX
  - BFW Tank Capacity – XX Gallons
  - BFW Tank Dimensions – XX Dia x XX High
  - Operating Temperature/Pressure –
  - Material of Construction -
- 2.3.13 Boiler Chemical Feed Tank T-9907 (Supplied by Mark Costello)
  - Manufacturer – W&D (Williams and Davis)
  - Model – XX
  - Chemical Tank Capacity – XX Gallons
  - Chemical Tank Dimensions – XX Dia x XX High
  - Operating Temperature/Pressure –
  - Material of Construction -
- 2.3.14 Water Softener M-9908(Supplied by Mark Costello)
  - Manufacturer – XX
  - Model – XX
  - Softener Capacity – XX Gallons
  - Softener Tank Dimensions – XX Dia x XX High



## 3.0 Process Description

### 3.1 General

The purpose of the Medical Waste Process is to receive Regulated Medical Waste and Sharps in specially designed containers, empty the containers into reusable carts, sterilize the waste in the carts at an elevated temperature and pressure to make it suitable for disposal, and finally, clean the containers so they can be returned to medical facilities for reuse.

### 3.2 Operating Description

Medical waste arrives at the Clean Harbors LaPorte Facility in straight trucks and 53-foot van trailers. The trucks and trailers enter the facility and present their paperwork to the guard before proceeding to the Medical Waste Receiving Dock on the west side of Warehouse II. Trucks and trailers are backed into one of two docking positions and wheels are chocked. Dock levelers are used to provide a smooth transition from the trucks and van trailers to the dock. The dock is attached to Warehouse II but outside with a canopy, no walls.

Medical waste is shipped in four container sizes: 10, 17, 31 and 43 gallons on 48-inch x 48-inch plastic pallets in shrink wrap. In addition, 2 and 3 gallon sharps containers are received in storage racks on rollers. All medical waste containers received at the site are reusable and are cleaned and recycled back to customers for reuse.

Forklifts are used to remove pallets from the trucks and van trailers and load the pallets onto Dock Conveyor M-1100. The Dock Conveyor is located at the back of the loading dock and is a gravity inclined roller conveyor designed to index pallets of RMW to the Warehouse II roll up door so they can be removed by a forklift inside the building. Similarly, Sharps on steel racks are wheeled off the trucks by hand and maneuvered to the Warehouse II roll up door to be picked up by a forklift inside the building.

Medical Waste containers are managed in three groups: Group 1 (31 and 43 gallon) containers, Group 2 (10 gallon and 17 gallon) containers, and Group 3 (Sharps Racks).

#### 3.2.1 Group 1 Containers

Group 1 (31 and 43 gallon) containers are delivered shrink wrapped on pallets and stacked on Dock Conveyor M-1100. From inside Warehouse II, a forklift lifts the pallets off Conveyor M-1100 and moves them down four feet to grade in Warehouse II. Pallet loads are staged on three gravity roller conveyors M-1102, 1103 and 1104. Pallet loads are broken down on the roller conveyors and individual containers are



moved to a floor mounted scale M-1105 and weighed. The weight is recorded automatically against the scanned bar code for the pallet load. Pallets are passed between two plastic detectors connected to Radiation Detector M-1101. Radioactive waste in the containers will set off an alarm and the pallet is moved to a rejected pile for redirection to another disposal facility. Radioactive waste cannot be approved or processed at this facility.

Hinged lids are unlocked and 31 and 43-gallon containers are manually loaded onto one of three Cart Tippers M-1106, 1007 and 1108. The Cart Tippers are hydraulically powered and lift the containers, two at a time, and dump the contents of the containers into Autoclave Carts with a red plastic liner.

When full, the Autoclave Carts are manually wheeled from the Cart Tippers and staged at the Autoclave. Empty 31 and 43-gallon containers and their lids are nested and positioned to be manually loaded onto Washer Feed Conveyor M-1125 for washing and decontamination in Large Washing Tunnel M-1126.

Autoclave M-1111 can accommodate up to six Autoclave Carts which are processed in a batch-wise basis. The Autoclave is set into a concrete pit to allow the Autoclave Carts to be rolled into the Autoclave at grade. The Autoclave is provided with hydraulically operated doors at the front and back to load and remove Carts from the Autoclave. Hydraulically powered Cart Bridges M-1109 and M-1110 at the front and back of the Autoclave allow for the Carts to be rolled into and out of the Autoclave manually and then dropped into the pit to allow the hydraulically powered Autoclave doors to be closed.

The Autoclave cycle is controlled by a PLC control panel which heats and pressurizes the Autoclave on a timed cycle before depressurizing the Autoclave at the end of the cycle. Batches are processed through the cycle in about 45 minutes with a further 15 minutes per batch to load and unload the Autoclave. The Autoclave is provided with 150 psig saturated steam from Steam Boiler F-9901 for heating and pressurizing. Condensate is collected and returned to the boiler room. A vent from the Autoclave through the roof is used to depressurize and vent the Autoclave at the end of the cycle before the back hydraulic doors are opened.

Hot Autoclave Carts are wheeled from the Autoclave manually at the end of the cycle and staged at the Trash Compactor. Autoclave Carts are manually loaded onto the Cart to Compactor Tipper M-1115 that lifts the Autoclave Cart and dumps the contents into Stationary Compactor M-1116. A Ram in the Stationary Compactor pushes and compacts the waste into the 40 cubic yard Octagonal Roll Off Compactor M-1118. Compacted sterilized medical waste is shipped by truck to a local non-



hazardous Subtitle D landfill for disposal. The Tipper and Ram are hydraulically powered from a Power Pack M-1117 adjacent to the Compactor.

### 3.2.2 Group 2 Containers

Similar to Group 1 (31 and 43 gallon) containers, the Group 2 (10 and 17 gallon) containers are received shrink wrapped on pallets and loaded onto the Dock Conveyor M-1100. Palletized Group 2 containers of sharps and regulated medical waste are moved from the Dock Conveyor to incoming Roller Conveyor M-1121. Similar to Group 1 containers, the palletized Group 2 containers are broken down and individual containers are weighed on Floor Scale M-1120 and the weight of the pallet is automatically tied to the pallet waste bar code. A Radiation Detector M-1119 at the Scale confirms the absence of radioactive materials. Weighed Group 2 palletized containers are repalletized and staged temporarily on Conveyor M-1122 before being moved to Conveyor M-1123 for processing.

At the end of Conveyor M-1123, pallets of Group 2 containers are broken down and the 10- and 17-gallon containers are loaded onto the Feed Conveyor for M-1124 Decanter Tipper. Decanter Tipper M-1124 uses a programmed robotic arm to pick 10- and 17-gallon containers from the Feed Conveyor, unlocks the lid, tips the contents into an Autoclave Cart and inverts the container and hinged lid onto Feed Conveyor M-1125 to Tunnel Washer M-1126. These containers are also inverted for washing. The Washing Tunnel controls the indexing of 10/17 containers and 31/43 containers into the Tunnel.

Tunnel Washer M-1126 uses hot water to wash and rinse the containers and lids as pass through the tunnel on a powered conveyor. Live steam is used to heat the tanks that supply the tunnel washing and rinsing sections. Hot washed containers and lids are blown to remove moisture and emerge from the tunnel onto a Discharge Conveyor M-1127 where they air cool. Cool, clean containers on Discharge Conveyor M-1127 are palletized by hand onto Washed Palletizing Conveyor M-1128 based on size. Pallets are built with stacked clean containers into separate pallets of 10 and 17-gallon containers, 31-gallon containers and 43-gallon containers. The 10/17 gallon containers are nested in the inverted position while the 31 and 43 gallon containers are nested upright. Full pallets are shrink wrapped using Shrink Wrap Machine M-1129 to prevent containers from spilling during forklift movement before being staged for Outbound Shipment at the Loading Dock.

### 3.2.3 Group 3 Containers

Group 3 (2 and 3 gallon) sharps containers are received in steel racks with rollers. There are up to 60 containers per steel rack. The steel racks are manually moved off the van trailer onto the loading dock and maneuvered to the roll up door. A forklift is used to lift the steel racks from the loading dock to the floor of Warehouse II. The





wheeled steel racks are manually rolled to the floor mounted scale adjacent to Sharps Decanter M-1130. Floor mounted Scale M-1120 that is used for weighing 10 and 17-gallon containers is also used to weigh the Sharps Racks as a total weight. Radiation Detector M-1119 is used to confirm there are no radioactive materials in the Sharps Racks.

After being weighed, the Sharps Racks are positioned at the Sharps Decanter M-1130 and manually loaded onto the Decanter feed conveyor. Similar to the 10 and 17-gallon Decanter M-1124, the Sharps Decanter uses a robotic arm to automatically open the lids of the Sharps Containers and dumps the contents into an Autoclave Cart. The Sharps Container with its hinged lid is inverted and set onto the feed conveyor for the Sharps Washing Tunnel M-1131.

Similar to the Large Tunnel Washer, Sharps Washing Tunnel M-1131 uses hot water to wash and rinse the 2 and 3-gallon sharps containers and lids as pass through the tunnel on a powered conveyor. Live steam is used to heat the tanks that supply the tunnel washing and rinsing sections. Hot washed sharps containers and lids are blown to remove moisture and emerge from the tunnel onto a Discharge Conveyor M-1132 where they air cool. Cool, clean containers on Discharge Conveyor M-1132 are reloaded by hand into Sharps Racks to be returned to customers for reuse.

### 3.2 Process Flow Diagrams

The following Process Flow Diagrams are provided for the Medical Waste Project and are included in this section.

67LT-1100-050	Autoclave PFD
67LT-1100-051	Large Washing Tunnel PFD
67LT-1100-052	Small Washing Tunnel PFD

M-1100  
DOCK CONVEYOR  
48" WIDE, 32' LONG, GRAVITY  
CARBON STEEL

M-1102/1103/1104  
TRIPPER CONVEYOR  
48" WIDE, 20' LONG, GRAVITY  
CARBON STEEL

M-1101  
RADIATION DETECTOR  
400 cps PER uR/h  
120 V, PLASTIC

M-1105  
FLOOR SCALE  
5,000 lb. CAPACITY  
120 V, CARBON STEEL

M-1106/1107/1108  
TIPPERS  
2 CONTAINERS/TIP  
20 SEC. CYCLE  
HYDRAULIC, 5HP  
CARBON STEEL

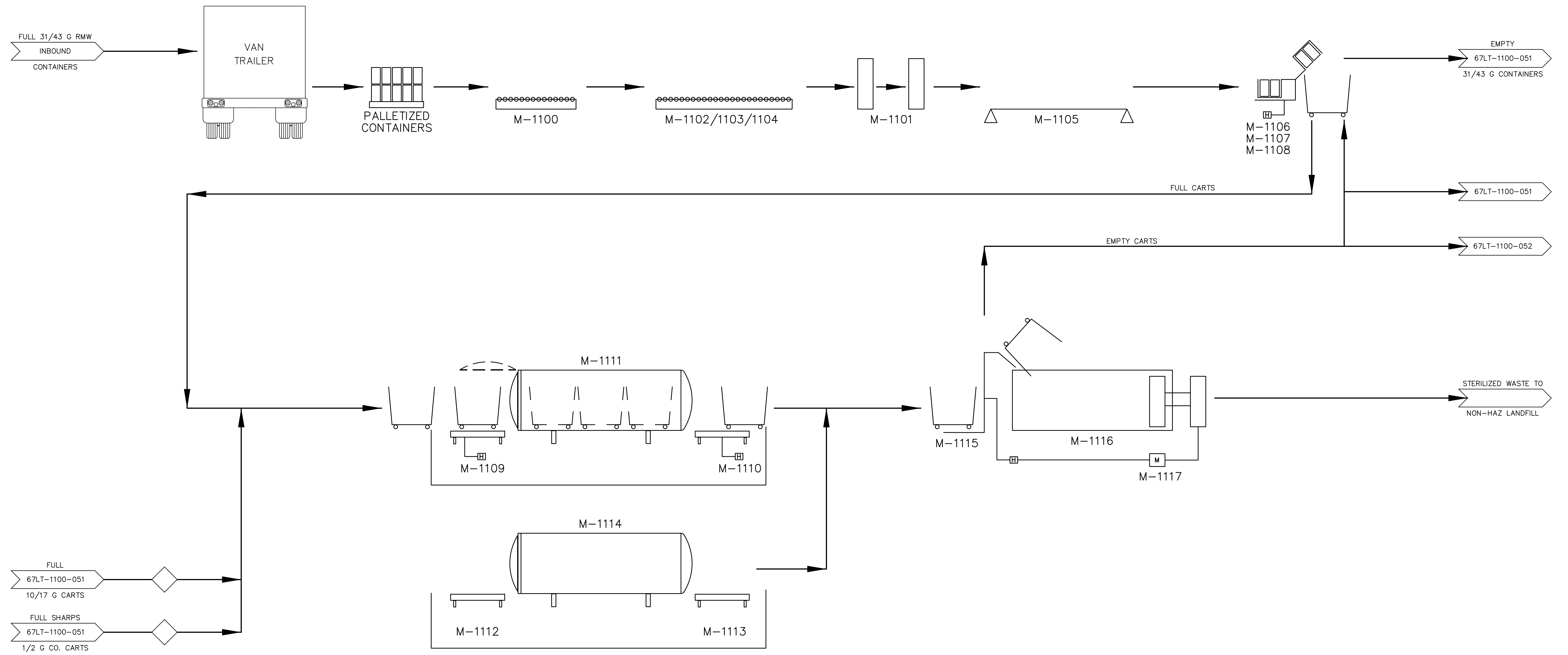
M-1109/1110/1112/1113  
HYDRAULIC BRIDGES  
CARBON STEEL, PROVIDED BY  
AUTOCLAVE ?-----

M-1111/1114  
STERILIZERS  
6 CART CAPACITY  
45 MINUTE CYCLE  
HYDRAULIC DOORS  
250 °F, 15 psig  
CARBON STEEL

M-1115  
CART TO COMPACTOR TIPPER  
HYDRAULIC, 10HP  
CARBON STEEL

M-1116  
COMPACTOR  
55 cu. yd. CAPACITY  
HYDRAULIC RAM  
CARBON STEEL

M-1117  
TIPPER HYDRAULIC POWER PACK  
15HP, CARBON STEEL

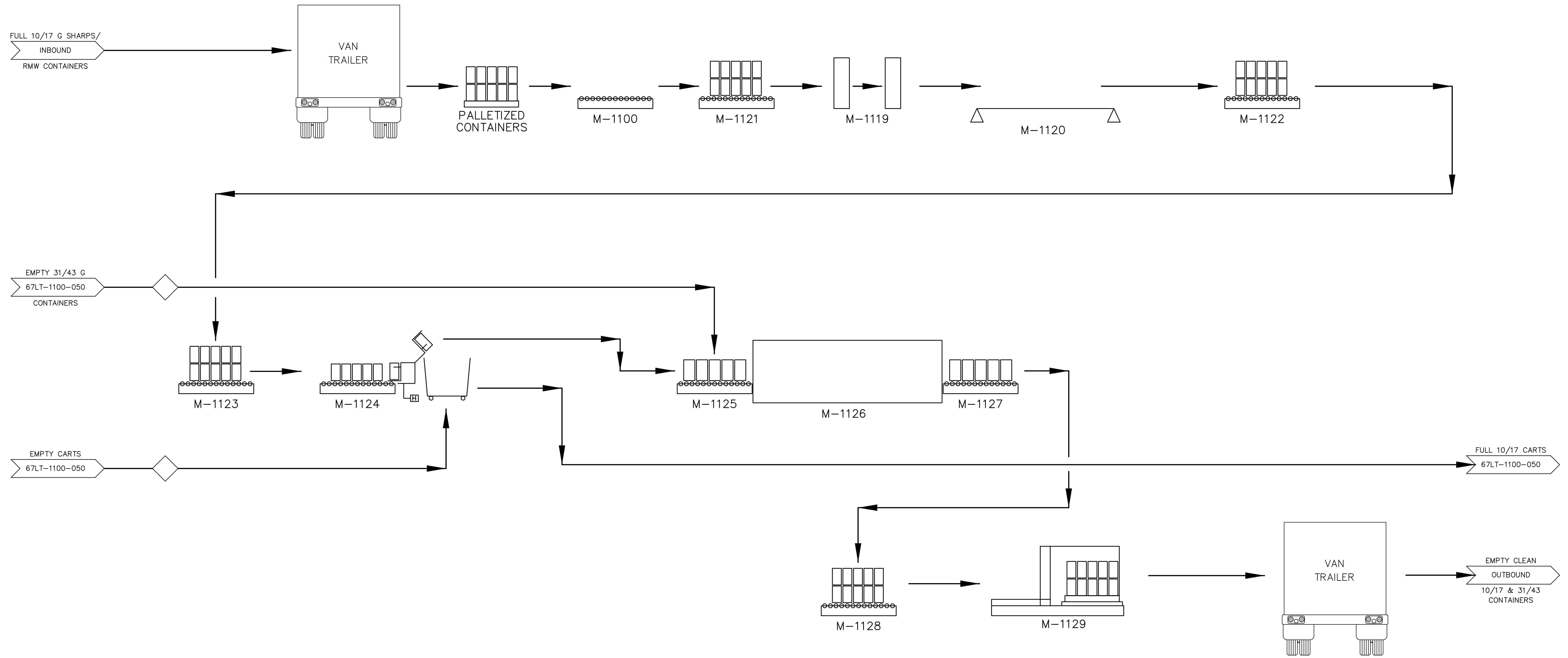


STREAM NO.	◇	◇	◇	◇	◇	◇	◇	◇	◇
STREAM NAME									
TEMPERATURE, °F									
PRESSURE, psig									
CONTINUOUS/BATCH									

MODIFIED LAST ON 8-23-21

REFERENCE DRAWINGS														TITLE CLEAN HARBORS LAPORTE, TX MEDICAL WASTE FACILITY PROCESS FLOW DIAGRAM AUTOCLAVE				
A	PRELIMINARY DESIGN	K.M.C.											DRAWN	CHECKED	SCALE	DATE	DRAWING NO.	REV.
REV.	DESCRIPTION	DRAWN BY	DATE	APPR. BY									K.M.C.	J.W.C.	NONE	08/10/21	67LT-1100-050	A

- M-1100**  
DOCK CONVEYOR  
48" WIDE, 32' LONG, GRAVITY  
CARBON STEEL
- M-1121**  
10/17 CONVEYOR  
48" WIDE, 32' LONG, GRAVITY  
CARBON STEEL
- M-1119**  
RADIATION DETECTOR  
400 cps PER uR/h  
120 V, PLASTIC
- M-1120**  
FLOOR SCALE  
5,000 lb. CAPACITY  
120 V, CARBON STEEL
- M-1122**  
10/17 CONVEYOR  
48" WIDE, 12' LONG, GRAVITY  
CARBON STEEL
- M-1123**  
10/17 CONVEYOR  
48" WIDE, 25' LONG, GRAVITY  
CARBON STEEL
- M-1124**  
10/17 DECANTER  
10 SEC. CYCLE  
304 STAINLESS
- M-1125**  
LARGE WASHER FEED CONVEYOR  
2 LANES, POWERED, \_\_\_' LONG  
CARBON STEEL
- M-1126**  
LARGE WASHING TUNNEL  
200 °F, ATMOS \_\_\_\_\_?  
200-300 CONTAINERS/HOUR  
304 STAINLESS
- M-1127**  
DISCHARGE CONVEYOR  
\_\_\_' WIDE, \_\_\_' LONG, GRAVITY  
CARBON STEEL
- M-1128**  
PALLETIZING CONVEYOR  
48" WIDE, \_\_\_' LONG  
CARBON STEEL
- M-1129**  
SHRINK WRAP MACHINE  
48" WIDE, \_\_\_' LONG  
25 PALLETS/h  
120 V, CARBON STEEL



STREAM NO.	◇	◇	◇	◇	◇	◇	◇	◇	◇
STREAM NAME									
TEMPERATURE, °F									
PRESSURE, psig									
CONTINUOUS/BATCH									

MODIFIED LAST ON 8-23-21

REFERENCE DRAWINGS		A PRELIMINARY DESIGN		K.M.C.							TITLE CLEAN HARBORS LAPORTE, TX MEDICAL WASTE FACILITY PROCESS FLOW DIAGRAM RMW LARGE WASHER
REV.	DESCRIPTION	DATE	APPR. BY	DRAWN BY	CHECKED	SCALE	DATE	DRAWING NO.	REV.		
				K.M.C.	J.W.C.	NONE	08/10/21	67LT-1100-051	A		

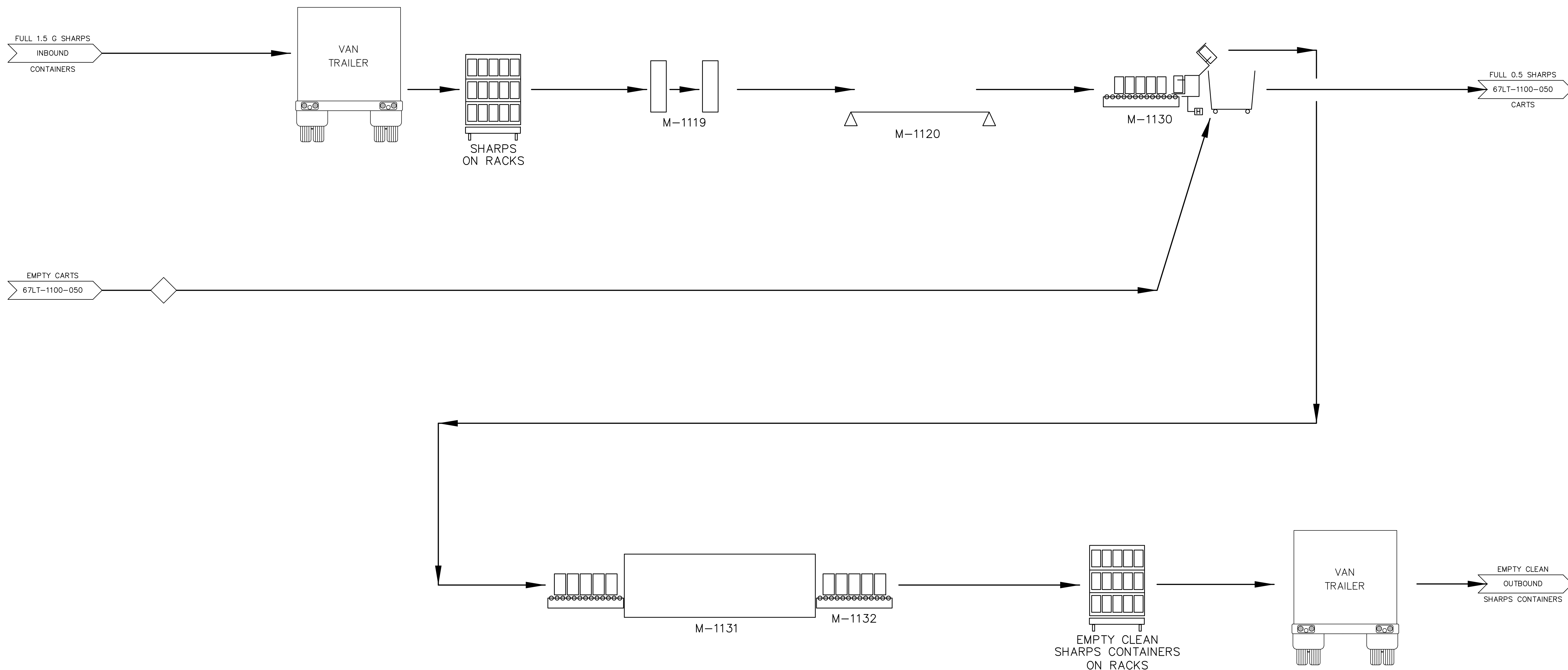
M-1119  
RADIATION DETECTOR  
ALSO USED FOR 10/17  
400 cps PER uR/h  
120 V, PLASTIC

M-1120  
FLOOR SCALE  
ALSO USED FOR 10/17  
5,000 lb. CAPACITY  
120 V, CARBON STEEL

M-1130  
SHARPS DECANTER  
10 SEC. PER CYCLE  
2 - 3 GAL. SHARPS  
304 STAINLESS STEEL

M-1131  
SHARPS TUNNEL WASHER  
200 F, ATMOS PRESS  
200 - 300 CONTAINERS/h  
304 STAINLESS STEEL

M-1132  
SHARPS DISCHARGE CONVEYOR  
' WIDE x ' LONG, GRAVITY  
CARBON STEEL



STREAM NO.	◇	◇	◇	◇	◇	◇	◇	◇	◇
STREAM NAME									
TEMPERATURE, °F									
PRESSURE, psig									
CONTINUOUS/BATCH									

MODIFIED LAST ON 8-24-21

REFERENCE DRAWINGS		A PRELIMINARY DESIGN		K.M.C.							TITLE CLEAN HARBORS LAPORTE, TX MEDICAL WASTE FACILITY PROCESS FLOW DIAGRAM SHARPS WASHER
REV.	DESCRIPTION	DATE	APPR. BY	DRAWN BY	CHECKED	SCALE	DATE	DRAWING NO.	REV.		
				K.M.C.	J.W.C.	NONE	08/11/21	67LT-1100-052	A		



## 4.0 Equipment

Equipment for this project is detailed in this section.

### 4.1 Engineering Consultant Scope of Work

Finalize and bid equipment (as necessary) to be purchased by Clean Harbors to support the Medical Waste Facility. Specifically,

- M-1100 Dock Conveyor
- M-1102 Incoming 31/43 Roller Conveyor
- M-1103 Incoming 31/43 Roller Conveyor
- M-1104 Incoming 31/43 Roller Conveyor
- M-1121 Incoming 10/17 Roller Conveyor
- M-1122 Incoming 10/17 Roller Conveyor
- M-1123 Incoming 10/17 Roller Conveyor
- M-1133 Electronic Gate
- T-9301 Raw Water Feed Tank
- P-9302 Raw Water Pump
- P-9304 Interceptor Sump Pump
- M-9305 Inground Interceptor
- T-9401 Wastewater Tank
- P-9402 Wastewater Pump
- C-9702 Washing Tunnel Air Compressor Package

### 4.2 Equipment Specifications and Data Sheets

The Equipment List for the Medical Waste Support Facilities are included in this Section.

<b>Project:</b>	Medical Waste Project
<b>Area:</b>	1100
<b>Location:</b>	LaPorte TSDF

Rev.	Date	By
0	8/5/2021	JWC

Equipment Number	Equipment Name	PFD Number	Operating Conditions		Material of Const.	Utilities			Supplied By	REMARKS
			Temp. F	Press. Psig		Steam, lb./h	Water, gpm	Power, hp		
M-1100	Dock Conveyor	67LP-1100-050	Ambient	Atmos.	Carbon Steel	N/A	N/A	N/A	Clean Harbors	Gravity, Rollers
M-1101	Radiation Detector	67LP-1100-050	Ambient	Atmos.	Plastic	N/A	N/A	120 V	Clean Harbors	Digital, Network Capable
M-1102	Incoming Roller Conveyor	67LP-1100-050	Ambient	Atmos.	Carbon Steel	N/A	N/A	N/A	Clean Harbors	31/43 G Containers, 20 ft
M-1103	Incoming Roller Conveyor	67LP-1100-050	Ambient	Atmos.	Carbon Steel	N/A	N/A	N/A	Clean Harbors	31/43 G Containers, 20 ft
M-1104	Incoming Roller Conveyor	67LP-1100-050	Ambient	Atmos.	Carbon Steel	N/A	N/A	N/A	Clean Harbors	31/43 G Containers, 20 ft
M-1105	Pallet Scale	67LP-1100-050	Ambient	Atmos.	Carbon Steel	N/A	N/A	120 V	Clean Harbors	31/43 Containers, Flush Mount
M-1106	Cart Tipper	67LP-1100-050	Ambient	Atmos.	Carbon Steel	N/A	N/A	5	Mark Costello	Dual 31/43 Container, hydraulic
M-1107	Cart Tipper	67LP-1100-050	Ambient	Atmos.	Carbon Steel	N/A	N/A	5	Mark Costello	Dual 31/43 Container, hydraulic
M-1108	Cart Tipper	67LP-1100-050	Ambient	Atmos.	Carbon Steel	N/A	N/A	5	Mark Costello	Dual 31/43 Container, hydraulic
M-1109	Cart Bridge	67LP-1100-050	Ambient	Atmos.	Carbon Steel	N/A	N/A	inc M-1111	Mark Costello	Hydraulic Powered
M-1110	Cart Bridge	67LP-1100-050	Ambient	Atmos.	Carbon Steel	N/A	N/A	inc M-1111	Mark Costello	Hydraulic Powered
M-1111	Autoclave	67LP-1100-050	250 F	15 psig	Carbon Steel	1570	N/A	45 amp, 120 V	Mark Costello	Hydraulic Doors
M-1112	Future Cart Bridge	67LP-1100-050	Ambient	Atmos.	Carbon Steel	N/A	N/A	inc. M-1114	Mark Costello	Hydraulic Powered
M-1113	Future Cart Bridge	67LP-1100-050	Ambient	Atmos.	Carbon Steel	N/A	N/A	inc. M-1114	Mark Costello	Hydraulic Powered
M-1114	Future Autoclave	67LP-1100-050	250 F	15 psig	Carbon Steel	1570	N/A	45 amp, 120 V	Mark Costello	Hydraulic Doors
M-1115	Cart to Compactor Tipper	67LP-1100-050	Ambient	Atmos.	Carbon Steel	N/A	N/A	inc. M-1117	Mark Costello	Hydraulic Powered
M-1116	Stationary Compactor	67LP-1100-050	Ambient	Atmos.	Carbon Steel	N/A	N/A	15	Mark Costello	5.5 cu.yd.with Hydraulic Ram
M-1117	Tipper Hydraulic Power Pack	67LP-1100-050	Ambient	Atmos.	Carbon Steel	N/A	N/A	10	Mark Costello	
M-1118	Octagonal Roll Off Compactor	67LP-1100-050	Ambient	Atmos.	Carbon Steel	N/A	N/A	N/A	Mark Costello	
M-1119	Radiation Detector	67LP-1100-051	Ambient	Atmos.	Plastic	N/A	N/A	120 V	Clean Harbors	Digital, Network Capable
M-1120	Pallet Scale	67LP-1100-051	Ambient	Atmos.	Carbon Steel	N/A	N/A	120 V	Clean Harbors	10/17 Containers, Flush Mount
M-1121	Incoming Roller Conveyor	67LP-1100-051	Ambient	Atmos.	Carbon Steel	N/A	N/A	N/A	Clean Harbors	10/17 G Containers, 30 ft before scale
M-1122	Incoming Roller Conveyor	67LP-1100-051	Ambient	Atmos.	Carbon Steel	N/A	N/A	N/A	Clean Harbors	10/17 G Containers, 12 ft after scale
M-1123	Incoming Roller Conveyor	67LP-1100-051	Ambient	Atmos.	Carbon Steel	N/A	N/A	N/A	Clean Harbors	10/17 G Containers, 25 ft decanter feed
M-1124	Decanter Tipper & Feed Conveyor	67LP-1100-051	Ambient	Atmos.	304 Stainless	N/A	N/A	XX	CWS	10/17 G Containers, Robotic Control
M-1125	Washer Feed Conveyor	67LP-1100-051	Ambient	Atmos.	304 Stainless	N/A	N/A	XX	CWS	31/43 G Containers & Lids
M-1126	Large Washing Tunnel	67LP-1100-051	200 F	Atmos.	304 Stainless	269	2	XX	CWS	10/17/31/43 G Conveyor
M-1127	Washer Discharge Conveyor	67LP-1100-051	Ambient	Atmos.	Carbon Steel	N/A	N/A	N/A	CWS	10/17/31/43 G Conveyor
M-1128	Washed Palletizing Conveyor	67LP-1100-051	Ambient	Atmos.	Carbon Steel	N/A	N/A	N/A	CWS	10/17/31/43 G Containers & Lids
M-1129	Shrink Wrap Machine	67LP-1100-051	Ambient	Atmos.	Carbon Steel	N/A	N/A	120 V	Clean Harbors	Pallet Wrapping of Clean Containers
	Radiation Detector									
	Pallet Scale									
M-1130	Sharps Decanter Tipper & Feed Conve	67LP-1100-051	Ambient	Atmos.	304 Stainless	N/A	N/A	XX	CWS	Sharps Containers
M-1131	Sharps Washing Tunnel	67LP-1100-051	200 F	Atmos.	304 Stanless	269	2	XX	CWS	Sharps Containers
M-1132	Washer Discharge Conveyor	67LP-1100-051	Ambient	Atmos.	304 Stainless	N/A	N/A	N/A	CWS	Sharps Containers
M-1133	Electronic Gate	N/A	Ambient	Atmos.	Carbon Steel	N/A	N/A	120 V	Clean Harbors	For West Exit from Med Waste to Road
T-9301	Water Feed Tank		50 F	Atmos.	Carbon Steel	N/A	N/A	N/A	Clean Harbors	
P-9302	RO Feed Pump		XX	XX	Carbon Steel	N/A	N/A	XX	Clean Harbors	
M-9303	Reverse Osmosis Package		XX	XX	XX	N/A	N/A	XX	Clean Harbors	

<b>P-9304</b>	Interceptor Sump Pump		XX	XX	Carbon Steel	N/A	N/A	XX	Clean Harbors
<b>M-9405</b>	Inground Interceptor		150F	Atmos.	Concrete	N/A	N/A	N/A	Clean Harbors
<b>T-9401</b>	Wastewater Tank		XX	XX	Carbon Steel	N/A	N/A	N/A	Clean Harbors
<b>P-9402</b>	Wastewater Pump		XX	XX	Carbon Steel	N/A	N/A	XX	Clean Harbors
<b>C-9701</b>	Sterilizer Air Compressor Package		XX	XX	Carbon Steel	N/A	N/A	5	Mark Costello
<b>C-9702</b>	Washer Air Compressor Package		XX	XX	Carbon Steel	N/A	N/A	XX	Clean Harbors
<b>F-9901</b>	Steam Boiler		368 F	150 psig	Carbon Steel	N/A	N/A	XX	Mark Costello
<b>T-9902</b>	BFW Tank		XX	XX	Carbon Steel	N/A	N/A	N/A	Mark Costello
<b>P-9903</b>	BFW Pump		XX	XX	Carbon Steel	N/A	N/A	XX	Mark Costello
<b>P-9904</b>	BFW Pump		XX	XX	Carbon Steel	N/A	N/A	XX	Mark Costello
	Condensate Receiver Tank		XX	XX	Carbon Steel	N/A	N/A	N/A	Mark Costello
<b>T-9906</b>	Boiler Blowdown Tank		XX	XX	Carbon Steel	N/A	N/A	N/A	Mark Costello
<b>T-9907</b>	Boiler Chemical Feed Tank		XX	XX	Carbon Steel	N/A	N/A	N/A	Mark Costello
<b>M-9908</b>	Water Softener		XX	XX	XX	N/A	N/A	N/A	Clean Harbors





## 5.0 Plant Support Services

Utilities and plant support services are detailed in this section.

### 5.1 Process Requirements

#### 5.1.1 Process and Potable Water

Process water IS required for this project. Specifically, the facility has two wells on the north and south side of the property. The two wells pump water into a 1,000-gallon retention tank which then supplies water for process, fire water and potable water purposes. The retention tank is located immediately north of Warehouse II where the Medical Waste Facility will be located.

Process water is needed at the Medical Waste Facility to generate steam for the Autoclaves and Washing Tunnels and softened water for the Washing Tunnels. The well water is fed to the Water Feed Tank at the Boiler House on level control to maintain a constant minimum level in that tank. A total of 6.6 gpm of well water is required for the Facility.

The following Process Flow Diagrams (PFDs) detail the process water and wastewater activities.

- 67LT-9900-050 Boiler and Water PFD
- 67LT-9900-051 Autoclave & Wastewater PFD
- 67LT-9900-052 Washing Tunnels & Interceptor PFD

Potable water is NOT required for this project.

#### 5.1.2 Fuel

Natural gas IS required as part of this project to fire the 150 boiler hp steam boiler. The natural gas requirement is about 5.3 scfm.

#### 5.1.3 Nitrogen

Nitrogen is NOT required as part of this project.

#### 5.1.4 Cooling Water

Cooling water is NOT required for this project.

#### 5.1.5 Steam and Condensate

Steam IS required as part of this project. The estimated steam consumption is about 3,140 lbs./h of 150 psig saturated process steam.

#### 5.1.6 Chilled Water

Chilled water is NOT required for this project.



5.1.7 Fire Protection

No new fire protection is required for this project.

5.1.8 Electrical Service

Listed below in Table 1 are the electrical motors required for this project.

<b>TABLE 1 – ELECTRICAL REQUIREMENTS</b>			
<b>Equip. No.</b>	<b>Description</b>	<b>Est. HP</b>	<b>Electrical Service</b>
M-1101	Radiation Detector	XX	120V/ 1 Phase/60 Hz
M-1105	Pallet Scale	XX	120V/ 1 Phase/60 Hz
M-1106	Cart Tipper	5	460V/3 Phase/60 Hz
M-1107	Cart Tipper	5	460V/3 Phase/60 Hz
M-1108	Cart Tipper	5	460V/3 Phase/60 Hz
M-1111	Autoclave	45 amp	120 V/1 Phase/60 Hz
M-1114	Autoclave (future)	45 amp	120 V/1 Phase/60 Hz
M-1116	Stationary Compactor	15	460 V/3 Phase/60 Hz
M-1117	Tipper Hydraulic Power Pack	10	460 V/3 Phase/60 Hz
M-1124	10/17 Gallon Decanter	XX	TBD
M-1125	Washer Feed Conveyor	XX	TBD
M-1126	Large Washing Tunnel	XX	TBD
M-1133	Electronic Gate	XX	120 V/1 Phase/ 60 Hz
P-9302	RO Feed Pump		460 V/3 Phase/60 Hz
M-9003	Reverse Osmosis Package		120 V/1 Phase/60 Hz
P-9304	Interceptor Pump		460 V/3 Phase/60 Hz
P-9402	Wastewater Pump		460 V/3 Phase/60 Hz
C-9701	Sterilizer Air Compressor	5	460 V/3 Phase/60 Hz
C-9702	Washer Air Compressor		460 V/3 Phase/60 Hz
F-9901	Steam Boiler		120 V/1 Phase/60 Hz
P-9903	BFW Pump		460 V/3 Phase/60 Hz
P-9904	BFW Pump		460 V/3 Phase/60 Hz
T-9907	Boiler Chemical Feed Tank		120 V/1 Phase/60 Hz

5.1.8 Storm and Runoff Water Management

No change in storm water or runoff water management is necessary.

5.1.9 Wastewater Discharge

Wastewater discharge IS part of this project. Wastewater and condensate from the autoclaves, wastewater from the washing tunnels and boiler blowdown drains to adjacent trenches and by gravity into an inground multi-compartment interceptor outside Warehouse II. The interceptor allows for the separation of organics and heavy sediment from wastewater. A sump pump, P-9304 in the interceptor pumps wastewater into a RO Water Feed Tank, T-9301 on level control. Raw well water is added to the Water Feed Tank as needed to maintain a constant level. A RO Feed Pump P-9302 transfers the wastewater in the Water



Feed Tank through Reverse Osmosis System M-9303 to recover as much water as practical for reuse and reduce the wastewater load. Bypass or reject water from the Reverse Osmosis System is considered wastewater for disposal.

The Clean Harbors LaPorte Facility has a septic tile bed for their sanitary wastewater, but it is insufficient to dispose of the wastewater from the Medical Waste Facility. It is estimated that the wastewater flow rate required for disposal will be 2.5 gpm continuously or 3,600 gallons/day. Wastewater to Wastewater Tank T-9401 is principally reject water from the Reverse Osmosis System. In addition, if the level in the Water Feed Tank gets too high, surplus wastewater can be transferred to the Wastewater Tank automatically on level control. It is proposed that a 10,000-gallon storage tank be provided as part of this project with a 250 gpm Wastewater Pump P-9402 to load wastewater onto tank trucks for transport offsite to the nearby Clean Harbors Deer Park facility for disposal.

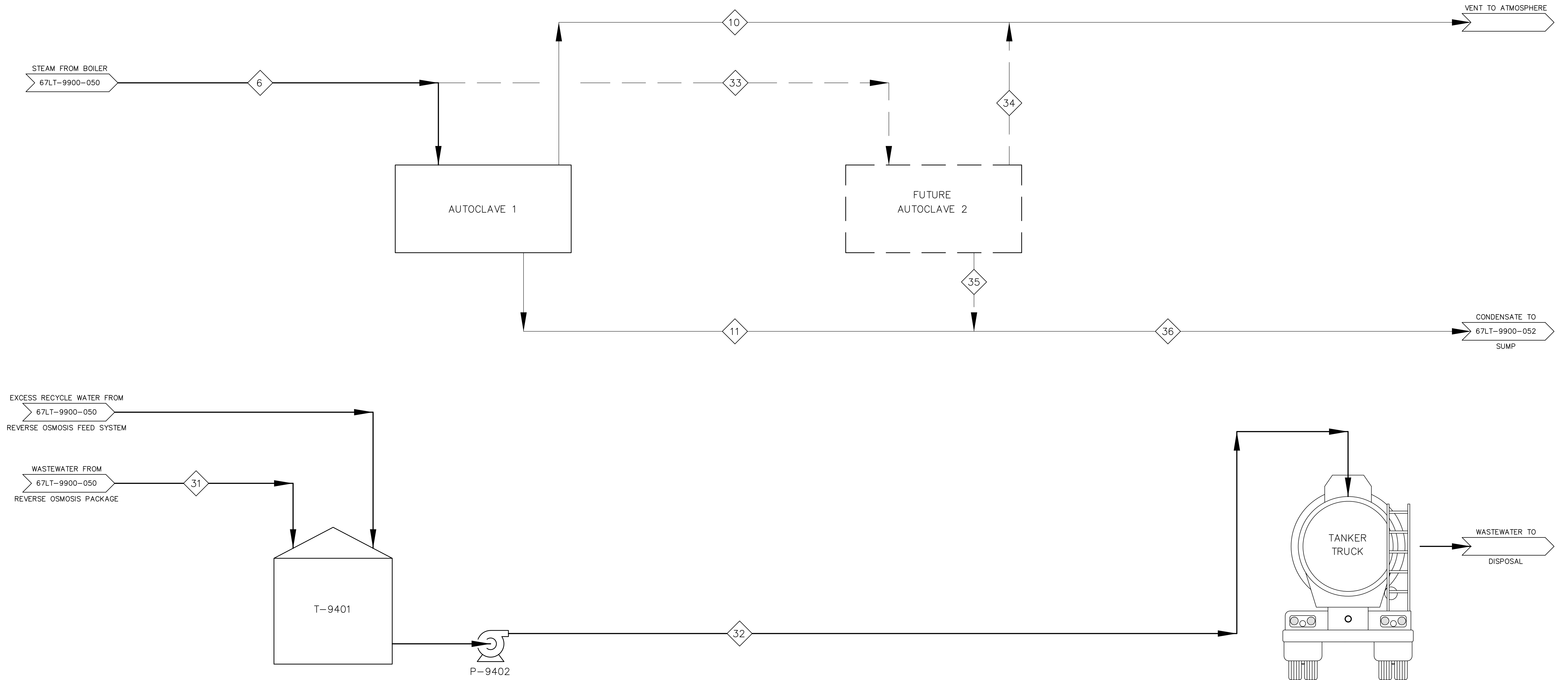
#### 5.1.10 Compressed Air

Plant air IS required for this project. The autoclave vendor, Mark Costello, will supply a 5 hp air cooled air compressor system C-9701 with 60-gallon receiver tank to provide compressed air for the operation of the autoclave. A separate air compressor C-9702 (to be purchased by Clean Harbors) will be required to supply compressed air to the two washing tunnels and their associated automated decanter stations. The volume of air required has not been provided at this time.



T-9401  
WASTEWATER TANK  
10,000 GAL. CAPACITY  
-- DIA. x -- HIGH  
CARBON STEEL

P-9402  
WASTEWATER PUMP  
250 GPM, 20 psig, \_HP  
CARBON STEEL



STREAM NO.	6	10	11	31	32	33	34	35	36
STREAM NAME	STEAM	VENT TO ATMOS.	CONDENSATE	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	CONDENSATE
TEMPERATURE, °F	368	212	250	150	100	368	212	250	250
PRESSURE, psig	150	0	15	20	20	150	0	15	15
CONTINUOUS/BATCH	BATCH	BATCH	BATCH	CONT.	BATCH	BATCH	BATCH	BATCH	BATCH
FLOW RATE, gpm	-	-	-	2.5	200	-	-	-	-
FLOW RATE, gallons/batch	-	-	-	-	5,000	-	-	-	-
FLOW RATE, lb/h	1,570	314	1,256	1,278	-	1,570	314	1,256	2,512
ALKALINITY, ppm	0	0	0	619	619	0	0	0	0

MODIFIED LAST ON 8-23-21

REFERENCE DRAWINGS												TITLE CLEAN HARBORS LAPORTE, TX MEDICAL WASTE FACILITY PROCESS FLOW DIAGRAM AUTOCLAVE		
A	PRELIMINARY DESIGN	K.M.C.												
REV.	DESCRIPTION	DRAWN BY	DATE	APPR. BY										
		K.M.C.		J.W.C.				NONE		07/16/21				
											DRAWING NO.	67LT-9900-051	REV.	A



## 6.0 Civil and Structural

### 6.1 Civil Scope of Work

- Provide elevated dock for loading and unloading medical waste containers from van trailers on the west side of Warehouse II.
- Provide foundation for boiler room on west side of Warehouse II.
- Provide foundation and dike for RO Water Tank T-9301, Wastewater Storage Tank T-9401 and Pumps P-9302 and P-9402 on the north side of Warehouse II.
- Provide pump pad for RO Feed Pump P-9302 and Wastewater Loading Pump P-9402 located inside dike described above.
- Provide pit inside Warehouse II for autoclaves and hydraulic bridges.
- Provide trenches in Autoclave pit and adjacent to Washing Tunnels.
- Skim coat Warehouse II floors near Washing Tunnels to drain to trenches.
- Provide Inground Interceptor Pit outside Warehouse II to accept wastewater from trenches, allow collection of organics and recycle wastewater back to Raw Water Tank feeding reverse osmosis system.

### 6.2 Structural Scope of Work

- Construct Boiler Room for Boiler, BFW Tank, Blowdown Tank, two Air Compressors, Reverse Osmosis System, and Pumps with concrete floor, metal clad walls, sloped roof, roll up door for equipment installation and removal, and man door.
- Provide piping supports for:
  - Raw water line from north side of Warehouse II to Boiler Room.
  - Wastewater line from Boiler Room to Wastewater Tank.
  - Softened water lines from Boiler Room to Washing Tunnels
  - Compressed air lines from Boiler Room to Autoclaves and Washing Tunnels.
  - Wastewater from Interceptor Sump Pump to Raw Water Tank.





## 7.0 Piping Design Specification

Piping design for this project is based on Safety-Kleen's Piping specifications ES-5000 and ES-5100. Material of construction in general is as follows:

Compound	Material of Const.	Spec	Schedule	Rating
BFW	Carbon Steel	AA	40	150#
Condensate	Carbon Steel	AA1	40	150#
Instrument Air	Galvanized C.S.	LK	40	150#
Natural Gas	Carbon Steel	AA	40	150#
Plant Air	Carbon Steel	AA	40	150#
Raw Water	Carbon Steel	AA	40	150#
Steam	Carbon Steel	BA1	80	300#
Wastewater	Carbon Steel	AA	40	150#

### 7.1 Utility Piping Scope of Work

- Install raw water piping from Plant Water Supply to Water Feed Tank.
- Install water piping from Water Feed Tank to Reverse Osmosis System and to Wastewater Tank.
- Install reject water piping from Reverse Osmosis System to Wastewater Tank.
- Install wastewater piping from Wastewater Tank to Truck Loading Station.
- Install natural gas piping from gas meter to Steam Boiler.
- Install exhaust vent from Steam Boiler to atmosphere.
- Install softened water piping from Water Softeners to Washing Tunnels.
- Install exhaust hood vents and fan from Autoclave to atmosphere.
- Install exhaust vents and fans from Washing Tunnels to atmosphere.
- Install wastewater piping from Interceptor Sump Pump to Water Feed Tank.
- Install compressed air piping from Air Compressor 1 to Autoclave.
- Install compressed air piping from Air Compressor 2 to Washing Tunnels and Decanters.
- Provide ventilation for boiler room.



## 8.0 Instrumentation and Controls

This section describes the instrumentation to be installed for the project.

### 8.1 Stand Alone Control Systems

The following equipment is provided by third party vendors with their own control panels and PLCs to monitor instruments, provide alarms, and sequence batches.

- Autoclave.
- Large Washing Tunnel and Decanter.
- Small Washing Tunnel and Decanter.
- Steam Boiler and associated Tanks and Pumps.

### 8.2 Instrument Scope of Work

- Provide a Feed Water PLC control panel to monitor, alarm and control the following system.
  - High-low level switches in Interceptor Sump to start and stop Interceptor Sump Pump.
  - High-high level alarm in Interceptor Sump.
  - High-low level switches in Water Feed Tank to control Interceptor Sump Feed.
  - High-high level alarm in Water Feed Tank to divert water to Wastewater Tank.
  - Low-low level alarm in Water Feed Tank to control Raw Water Feed.
  - Flow meter and totalizer on clean and reject water from Reverse Osmosis System.
  - Low Pressure alarm to Reverse Osmosis System.
  - Level Indicator and high-high level alarm in Wastewater Tank.
- Install local pressure, temperature and flow indicators as shown on P&IDs.

## 9.0 Electrical

### 9.1 Electrical Scope of Work

The area is electrically unclassified as ordinary hazard.

There is a high voltage (460 V) and a low voltage (240 V) power panel on the north wall of Warehouse II.

The electrical scope of work includes

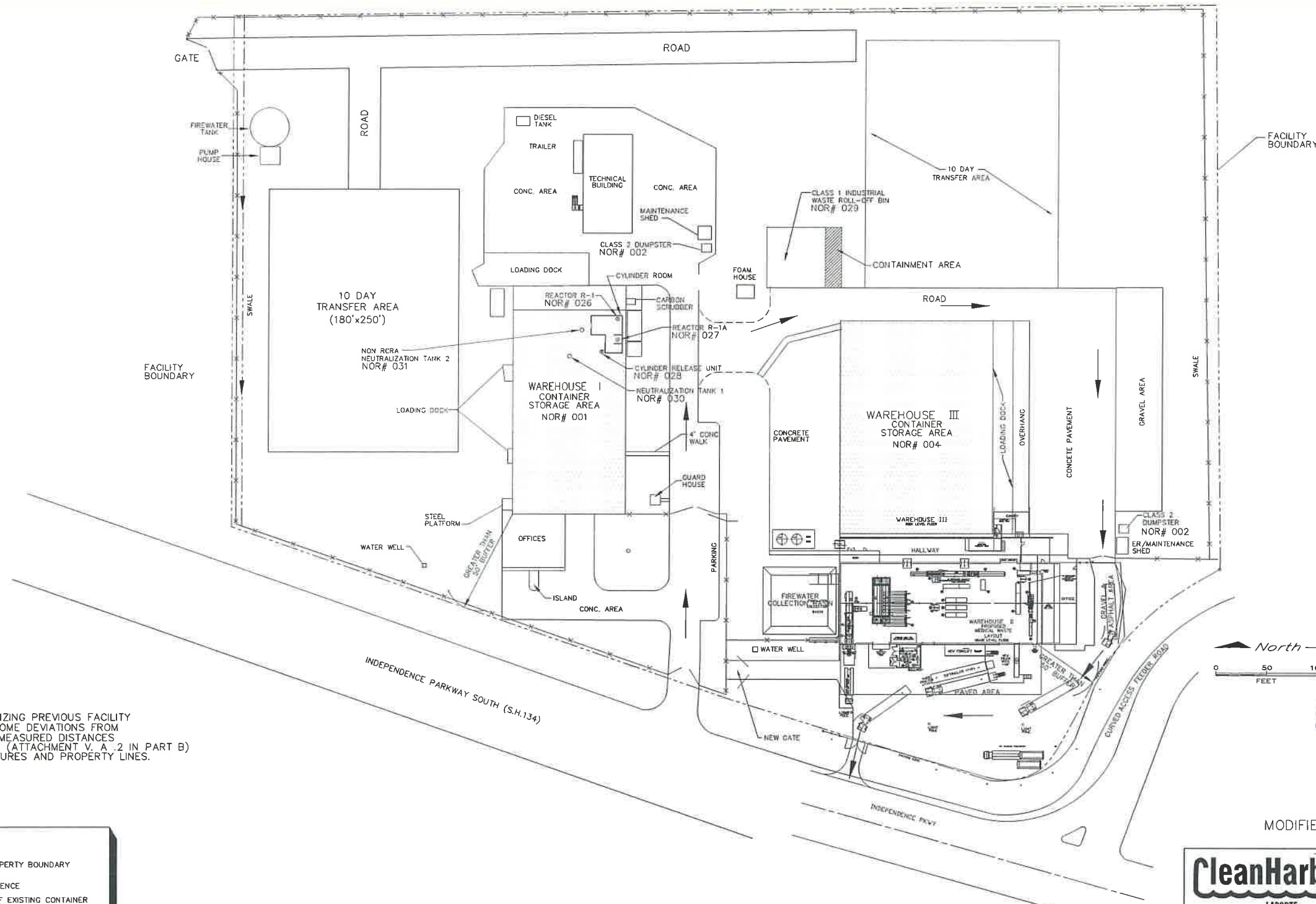
- Confirm there is sufficient power and connections at the high and low voltage panels to power all of the Medical Waste Facility equipment.
- Power wiring (460 volt or less) in conduit or cable trays from the Electrical Panels to
  - Autoclave Power Panel with disconnect.
  - Three hydraulic Tippers with disconnects.
  - Cart to Compactor Power Pack with disconnect.
  - Compactor Ram Power Pack with disconnect.
  - Large Washer/Decanter Power Panel with disconnect.
  - Small Washer/Decanter Power Panel with disconnect.
  - Steam Boiler Power Panel with disconnect.
  - Feed Water Pump
  - Interceptor Sump Pump
  - Wastewater Pump
  - BFW Pumps
- Low voltage (120 volt) power from the Electrical Panel to the Feed Water PLC Control Panel, and Electronic Gate.
- Lighting for new boiler house and loading dock.
- Control wiring (120-volt) from the starters to the local start stop switches on the above pumps.
- Control wiring (12 volt or less) from the Feed Water PLC to the Feed Water Tank, Wastewater Tank, Feed Water Pump, Interceptor Sump Pump, and Wastewater Pump.
- Ensure all packaged equipment and pumps are grounded. Confirm quality of the ground.



## 10.0 Plant Layout - Site Plan

The Medical Waste Facility will be in Warehouse II of the Clean Harbors LaPorte Facility. The following maps and drawings are provided to locate the Facility and associated equipment.

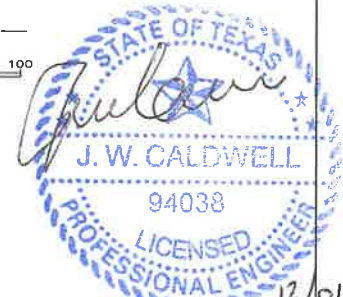
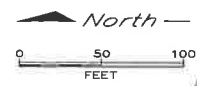
- Map of Independence Blvd.
- Clean Harbors LaPorte Facility Site Plan.
- 67LT-0100-006 Traffic Routing to Medical Waste Facility
- 67LT-0100-002 Warehouse II Equipment Layout.
- D-190004-A6 Sheet 1 Warehouse II Material Flow Pattern



NOTE:  
DRAWING WAS RECREATED BY DIGITIZING PREVIOUS FACILITY DRAWING OF SAME INFORMATION. SOME DEVIATIONS FROM ACTUAL FEATURE LOCATIONS AND MEASURED DISTANCES MAY EXIST. SEE TOPOGRAPHIC MAP (ATTACHMENT V, A, 2 IN PART B) FOR ACCURATE RENDITION OF FEATURES AND PROPERTY LINES.

**LEGEND**

- FACILITY PROPERTY BOUNDARY
- x-x-x- CHAIN LINK FENCE
- BOUNDARY OF EXISTING CONTAINER STORAGE AREAS
- ← PROPOSED TRAFFIC PATTERN



MODIFIED LAST ON 8-24-21

**CleanHarbors**  
LAPORTE

500 Independence Parkway South  
LaPorte, Texas 77571  
Phone: (281) 727-7600

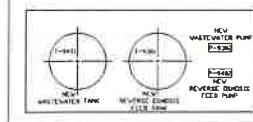
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TITLE: **SITE PLAN  
MEDICAL WASTE TRAFFIC PATTERN**

FILE: 67LT-0100-006

APPROVED:	SCALE: 1 = 50	DWG. NO.: 67LT-0100-006	REV.:
			A

REFERENCE DRAWINGS								
TITLE	DRAWING NO.							
A	PROPOSED LAYOUT	KMC						
REV.	DESCRIPTION OF ISSUE	DWG.	CHECKED	CONSULTED	APPROVED	DATE	EST. NO.	



WAREHOUSE III  
DOCK LEVEL FLOOR

HALLWAY

FIREWATER  
COLLECTION  
BASIN

WAREHOUSE II  
GRADE LEVEL FLOOR

OFFICE

NEW FORKLIFT RAMP

NEW TRUCK  
DOCK  
+48"

YARD TRACTOR  
(TYP)

53' TRAILER (TYP)

LIGHT  
POLE

LIGHT  
POLE

LIGHT  
POLE

NEW ELECTRIC GATE

PAVING EDGE

PAVING EDGE

INDEPENDENCE PKWY



12/01/21  
LAST MODIFIED ON 8-27-21

		<b>CLEAN HARBORS LAPORTE FACILITY SITE PLAN MEDICAL WASTE TREATMENT FACILITY LAYOUT OPTION 7B</b>	
<small>PERFORMANCE STANDARDS</small> REV	<small>DESCRIPTION</small> A PROPOSED LAYOUT	<small>DATE</small> 	<small>SCALE</small> 1"=15'-0" <small>DATE</small> 08/03/21
<small>DRAWN BY</small> K.M.C.	<small>CHECKED BY</small> 	<small>DATE</small> 	<small>SCALE</small> 
<small>DRAWING NO.</small> 67LT-0100-002	<small>REV.</small> A	<small>TITLE</small> CLEAN HARBORS LAPORTE FACILITY SITE PLAN MEDICAL WASTE TREATMENT FACILITY LAYOUT OPTION 7B	<small>DATE</small> 





## 11.0 Painting and Insulation

### 11.1 Painting

All new carbon steel piping shall be painted with primer and paint to the following colors.

- White - Process Piping
- Green Cooling, Chilled and Make-Up Water
- Blue Compressed Air
- Brown Structural Steel

Galvanized, PVC, insulated, and stainless steel surfaces will be left unpainted.

### 11.2 Insulation

Steam and condensate piping will be insulated with aluminum jacket.

Wastewater lines outside Warehouse II will be insulated with aluminum jacket.





## **12.0 Demolition and Tie - in List**

Details of all tie-in points are outlined in this section.

### **12.1 Tie-in List**

A tie-in list is provided to connect the equipment in the Medical Waste Facility.

- TP -1 Raw Water Line from Plant Water System.

### **12.2 Demolition**

There is no demolition of existing facilities required as part of this project.

## Attachment V.K.iii.b



**Texas Commission on Environmental Quality**  
**Application for a Medical Waste Registration**  
**Clean Harbors La Porte, LLC**  
**Registration 50225**  
**La Porte, Harris County, Texas**

December 1, 2021

Prepared for

Clean Harbors La Porte, LLC

500 Independence Parkway South

La Porte, TX 77571

Prepared by

David A. DeSha

Clean Harbors Environmental Services

794038

42 Longwater Drive

Norwell, Massachusetts



12/01/21



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12/01/21



## Section 1—General Information

### 1.1 Facility Information (must match regulated entity information on Core Data Form)

Facility Name: Clean Harbors La Porte, LLC

Regulated Entity Reference No. (if issued): RN 102949021

Physical or Street Address (if available): 500 Independence Parkway South

City: La Porte County: Harris State: TX Zip Code: 77571

(Area Code) Telephone Number: (281) 884-5500

Email Address: [walker.john@cleanharbors.com](mailto:walker.john@cleanharbors.com)

Latitude (Degrees, Minutes, Seconds, or Decimal Degrees): 29.708090

Longitude (Degree, Minutes, Seconds, or Decimal Degrees): -95.090610

Activities Conducted at the Facility (check all that apply)

Storage     Treatment     Transfer     Other: \_\_\_\_\_

Describe the location of the facility with respect to known or easily identifiable landmarks:

\_\_\_\_\_

Detail access routes from the nearest United States or state highway to the facility:

\_\_\_\_\_

### 1.2 Applicant Information

The owner of a facility is the applicant, to whom the registration would be issued.

Owner of Facility (must match customer information on Core Data Form)

Owner Name: Clean Harbors La Porte, LLC

Contact **Person's** Name: Steve Walker Title: General Manager

Customer Reference No. (if issued): CN 603661844

Mailing Address: 500 Independence Parkway South

City: La Porte County: Harris State: TX Zip Code: 77571

(Area Code) Telephone Number: (281) 884-5507

Email Address: [walker.john@cleanharbors.com](mailto:walker.john@cleanharbors.com)



Operator of Facility (if not the same as Owner of Facility)

Operator Name: Same

Contact **Person's** Name: \_\_\_\_\_ Title: \_\_\_\_\_

Customer Reference No. (if issued): CN \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

(Area Code) Telephone Number: \_\_\_\_\_ Email Address: \_\_\_\_\_

Consultant (if applicable)

Firm Name: Not Applicable

Texas Board of Professional Engineers Firm Registration Number: \_\_\_\_\_

Contact **Person's** Name: \_\_\_\_\_ Title: \_\_\_\_\_

Texas Board of Professional Engineers License Number (if applicable): \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

(Area Code) Telephone Number: \_\_\_\_\_ Email Address: \_\_\_\_\_

**1.3 Governmental Entities Information**

Texas Department of Transportation

District: Houston

District **Engineer's** Name: Eliza Paul, PE

Street Address or P.O. Box: 7600 Washington Avenue

City: Houston County: Harris State: TX Zip Code: 77007

(Area Code) Telephone Number: (713) 802-5000 Email Address: \_\_\_\_\_

Local Government Authority Responsible for Road Maintenance (if applicable)

Agency Name: City of La Porte Dept of Public Works

Contact **Person's** Name: Ray Mayo

Street Address or P.O. Box: 2963 N 23rd Street

City: La Porte County: Harris State: TX Zip Code: 77571

(Area Code) Telephone Number: (281) 471-9650

Email Address: PublicWorks@LaporteTX.gov



City Mayor

City Name: La Porte

City **Mayor's** Name: Louis Rigby

Mailing Address: 604 W Fairmont Parkway

City: La Porte County: Harris State: TX Zip Code: 77571

(Area Code) Telephone Number: (281) 470-5021

Email Address: mayorsoffice@laportetx.gov

Council of Governments (COG)

COG Name: Houston-Galveston Area Council

COG **Representative's** Name: Mr. Chuck Wemple

COG **Representative's** Title: Executive Director

Street Address or P.O. Box: 3555 Timmons Lane Suite 120

City: Houston County: Harris State: TX Zip Code: 77277

(Area Code) Telephone Number: (713) 993-4514

Email Address: charles.wemple@h-gac.com

Local Government Jurisdiction

Is the facility located outside the territorial limits or extraterritorial jurisdiction of a city or town? (30 TAC §326.67(a)) Yes  No

If yes, and county requires a license, you must obtain a license from the county, and the county must send a copy of the license to the appropriate TCEQ regional office.

City Health Authority (if applicable)

Agency Name: Health Authority

Contact **Person's** Name: Dr. Oscar Boultinghouse, MD, FACEP

Street Address or P.O. Box: 604 W Fairmont Parkway

City: La Porte County: Harris State: TX Zip Code: 77571

(Area Code) Telephone Number: (281) 471-9244

Email Address: owbb@aol.com

County Judge Information

County **Judge's** Name: Lina Hidalgo

Street Address or P.O. Box: 1001 Preston, Suite 911





City: Houston County: Harris State: TX Zip Code: 77002

(Area Code) Telephone Number: (713) 274-7000

Email Address: judge.hidalgo@cjo.hctx.net

County Health Authority (if applicable)

Agency Name: Harris County Public Health

Contact **Person's** Name: Barbie Robinson

Street Address or P.O. Box: 2223 W Loop S

City: Houston County: Harris State: TX Zip Code: 77027

(Area Code) Telephone Number: (713) 439-6000

Email Address: INFO@phs.hctx.net

State Representative

House District Number: 144

**Representative's** Name: Mary Ann Perez

District Office Address: 101 S. Richey Street, Ste. F

City: Pasadena County: Harris State: TX Zip Code: 77506

(Area Code) Telephone Number: (713) 740-8153

Email Address: Unavailable

State Senator

Senate District Number: 11

State **Senator's** Name: Larry Taylor

District Office Address: 6117 Broadway, Suite 122

City: Pearland County: Harris State: TX Zip Code: 77581

(Area Code) Telephone Number: (281) 485-9800

Email Address: Unavailable

1.4 Posting of Application on Website [30 TAC §326.69(e)]

Provide the web address (URL) of the publicly accessible internet website where the application and all revisions will be posted:

https://www.cleanharbors.com/location/la-porte-facility



1.5 Copy of Application for Public Viewing

Name of the Public Place: La Porte Branch Library

Physical Address: 600 S Broadway St

City: La Porte County: Harris State: TX Zip Code: 77571

(Area Code) Telephone Number: (281) 471-4022



1.6 Notice of Opportunity to Request Public Meeting

Notice Requirement

The owner or operator is required by 30 TAC §326.73 to provide notice of the opportunity to request a public meeting, and to post notice signs.

Indicate the party responsible for publishing notice:

Applicant (Owner or Operator)       Consultant

1.7 Application Fee [30 TAC §330.59(h)(2)]

The application fee for a registration is \$150.

Indicate how the application fee was paid. Attach a photocopy of the check or a copy of the electronic payment receipt.

Check       Online

If paid online, e-Pay confirmation number: 582EA000462722

1.8 Facility **Supervisor's** License [30 TAC §326.71(c)]

Indicate the type of license that the Solid Waste Facility Supervisor (as defined in 30 TAC Chapter 30), will obtain prior to commencing facility operations:

Class A       Class B



## Section 2—Facility Design Information

### 2.1 Impact on Surrounding Area [30 TAC §326.71(a)(5)(A) & (B)]

**This section addresses the facility's impacts on cities, communities, groups of property owners, or individuals (attach additional pages to answer the following questions, if necessary):**

Describe the character of the surrounding area land uses within one mile of the facility:

The area within one mile is heavy industrial, with commercial facilities including truck stops, gas stations, and other industrial support businesses within this radius

Identify growth trends within five miles of the facility with directions of major development:

Once outside the one mile radius to a radius of 5 miles the area is completely developed, including residential and commercial facilities.

Indicate the approximate number of residences and other uses (e.g. schools, churches, cemeteries, historic structures and commercial sites, etc.) within one mile of the facility:

None

Indicate the distance to the nearest residence(s):     1.6  feet  miles

Provide directions to the nearest residence(s):

Head west toward Independence Pkwy Restricted usage road 427 ft

Turn left onto Independence Pkwy 463 ft

Continue onto Battleground Rd 0.4 mi

Turn right onto E Thirteenth St 1.0 mi

Turn left

Indicate the distance to the nearest commercial establishment(s): 476  feet  miles

Provide directions to the nearest commercial establishment(s):

Cross Independence Pkwy

### 2.2 Transportation [30 TAC §326.71(e)]

Access Roads

Complete Table 1 regarding the roads that will be used to access the site.



Table 1. Roads That Will be Used to Access the Site.

Name of Road	Surface Type and Number of Lanes
State Hwy 255	Asphalt 4 lane
Independence Parkway South	Asphalt 2 lane

## Daily Traffic Volume

Complete Table 2 regarding existing and expected volume of vehicular traffic on access roads within one mile of the facility, and the projected volume of traffic expected to be generated by the facility on access roads within one mile of the facility.

Table 2. Traffic Volume.

Vehicle Traffic	Volume (vehicles per day)
Existing Vehicle Traffic	76714
Expected Vehicle Traffic	76714
Projected Vehicle Traffic Generated by Facility	10 additional vehicles

Describe the source of or method used to obtain the volumes (attach additional pages to answer this question if necessary):

TX DOT 2020 District Traffic Web Viewer

If traffic volume was determined by counts in the field, indicate the locations where the counts were conducted (attach additional pages to answer this question if necessary):

\_\_\_\_\_

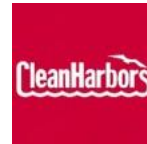
### 2.3 Floodplain and Wetlands [30 TAC §326.71 (f)]

Will the facility be located within a 100-year floodplain?

Yes  No  Identify the floodplain zone \_\_\_\_\_

Attach a copy of the Federal Emergency Management Administration administrator (FEMA) flood map for the area.

If the facility will be within a 100-year floodplain, attach documentation demonstrating that the facility is designed and will be operated in a manner to prevent washout of waste during



a 100-year storm event, or that the facility has obtained a conditional letter of map amendment from the FEMA.

Will the facility be located in wetlands?

Yes  No

If yes, attach documentation to the extent required under Clean Water Act, §404 or applicable state wetlands laws.

#### 2.4 Buffer Zones and Easement Protection [30 TAC §326.71(h)(3)]

Is the buffer zone in any location at the facility less than 25 feet wide?

Yes  No

If yes, describe your alternative buffer zone and how it will allow access for emergency response and maintenance (attach additional pages to answer this question if necessary):

\_\_\_\_\_

#### 2.5 Waste Management Unit Designs [30 TAC §326.71(i)]

##### Waste Management Unit Details

List each waste management unit in Table 3. Include attachments documenting manufacturer specifications.

*Table 3. Design Details and Manufacturer Specifications for Waste Management Units.* Continuation Sheet on the Following Page

Unit Type	Minimum Number of Units	Design Details	Approximate Dimensions	Approximate Capacity per Unit
Dock Conveyor	1	Carbon Steel Rollers, Gravity	32 Feet	18" W Pallets
Radiation Detector	1	Ludlum Model 375P-1000	N/A	N/A
Scales	1	Floor Mounted Flush	6' X 6'	5000 lbs
Pallet Conveyor	Multiple	Carbon Steel Rollers, Gravity	48" X 20'	48" Pallets
Dual Container Tipper	3	Mark Costello	N/A	4 Containers
Sterilizer	1	Mark Costello	30'	6000 lbs/cycle



Unit Type	Minimum Number of Units	Design Details	Approximate Dimensions	Approximate Capacity per Unit
Sterilizer 2 (Future)	1	Mark Costello	30'	6000 lbs/cycle

### Foundations and Supports

Provide a generalized description of construction materials for slab and subsurface supports of all storage and processing components (attach additional pages to answer this question if necessary):

All operations will be within existing buildings – i.e., Warehouse II.

### Contaminated Water Management

Describe how storage and processing areas will be designed to control and contain spills and prevent contaminated water from leaving the facility. For unenclosed containment areas, also account for precipitation from a 25-year, 24-hour storm (attach additional pages to answer this question if necessary):

All medical waste remains in sealed containers that meet all requirements to be leak proof, rodent proof with tight fitting lids and appropriate labels. Containers will be stored in the warehouse or on vehicles at all times until processed. Each vehicle and the warehouse have spill kits should the need arise. Each spill kit which contains first aid kit, personal protective equipment (gloves, goggles, face mask, shoe covers, disposable gown), absorbent materials, forceps, biohazard bags, disinfectant, dust pan and brush. Additionally, bleach, disinfectant wipes, shovel, broom, extra supplies of biohazardous and sharps waste containers, red biohazard bags and fire extinguisher are located within the facility. An eyewash station is available and easily accessible within the facility. The vehicles are all equipped with a spill kit, same as above.





## Section 2.5 Table 3 continued

Unit Type	Minimum Number of Units	Design Details	Approximate Dimensions	Approximate Capacity Per Unit
Sterilizer 3 (Future)	1	Mark-Costello	30'	6000
Hydraulic Cart to Compactor	1	Mark-Costello	5'	Undetermined
Compactor	1	Mark-Costello	40'	30 Cu Yd
Tipper	1	Mark-Costello	N/A	Undetermined
Roll off Bins	1	Mark-Costello	40 Cu Yd	40 Cu Yd
Pallet Conveyor Before Scale	1	Roller, Gravity, Carbon Steel	48" X 32'	N/A
Pallet Conveyor After Scale	1	Roller, Gravity, Carbon Steel	48" X 12'	N/A
Inbound 10/17 Pallet Conveyor	1	Roller, Gravity, Carbon Steel	48" X 25'	N/A
Decanter 10/17	1	Robotic Arm, Stainless Steel	N/A	180 Containers/hr
Washer 31/43 Conveyor	1	Rollers, PLC Controlled, Stainless and Carbon Steel	TBD	N/A
Tunnel Washer	1	Unikon Belgium	TBD	300 containers/hr
Discharge Conveyor	1	TBD	TBD	N/A
Outbound Pallet Conveyor	1	TBD	TBD	N/A
Shrink Wrap	1	Lantech	TBD	25 pallets/hr
Sharps Decanter	1	Stainless Steel	TBD	220 Containers/hr
Sharps Tunnel Washer	1	Stainless Steel	TBD	300 Containers/hr
Discharge Conveyor	1	Rollers, Gravity, Carbon Steel	TBD	N/A
Electronic Gate	1	Rollers, Remote Open/Close	TBD	N/A
RO Water Feed Tank	1		TBD	10,000 gals
RO Water Pump	1	Carbon Steel	TBD	12 gpm
RO Package	1			12 gpm
Wastewater Tank	1	Carbon Steel	TBD	10,000 gals
Wastewater Pump	1	TBD	TBD	250 gpm
Sterilizer Air Compressor	1	Mark-Costello	TBD	TBD
Washer Air Compressor	1	Mark-Costello	TBD	TBD
Steam Boiler	1	Scotch Marine	TBD	150 hp



Boiler Feed Water Tank	1	Carbon Steel	TBD	TBD
Boiler Feed Water Pumps	2	Mark-Costello	TBD	TBD
Condensate Receiver Tank	1	TBD	TBD	TBD
Boiler Blowdown Tank	1	TBD	TBD	TBD
Boiler Chemical Feed Tank	1	TBD	TBD	TBD
Water Softener	1	Mark-Costello	TBD	TBD



## 2.6 Treatment Requirements 30 TAC § 326.71 (j)

Each autoclave load will consist of approximately 500 pounds in each autoclave cart. The actual amount of waste may vary slightly. The empty carts will be lined with an autoclavable clear liner and filled with approximately 500 pounds of red bags and sharps containers. Each cart liner has a heat sensitive strip to verify the attainment of the required temperature. Once the carts are full and have the biological indicators placed as outlined above, they will be placed in the autoclave.

1. Operating parameters will be preset at 290°F for 45 minutes.
2. The autoclave door is closed, and the safety lock engaged
3. The start key is turned, and the automatic sequence begins with no need for further operator intervention until the conclusion of the cycle.
4. The PLC controller will begin recording the cycle data, and each complete cycle from start key to opening the door and unloading is approximately 1:15 hours (one hour and fifteen minutes). The actual cycle time will vary somewhat depending on several factors including ambient temperature, humidity, and size of the load.
5. The autoclave will automatically close the Blow-down (exhaust valve) and the steam inlet valve will open to allow steam from the boiler to fill the autoclave. While the chamber is filling cool air and condensate will be expelled through the steam trap to the drain.
6. Once the autoclave has reached an internal temperature of 290° the steam inlet valve will close and the timer will start the treatment time of 45 minutes, and the steam inlet valve will open and close as needed to automatically maintain the temperature of 290°. During this time as steam condenses to heat the load condensate is automatically expelled through the steam trap.

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7. When the timer has completed the 45-minute processing time the steam inlet valve will close, and the blow-down valve will open to release the steam inside the chamber. When the pressure has dropped to zero psi the controller stops recording and the safety lock can be safely disengaged to open the autoclave door and remove the carts.

When the treatment cycle is complete, and the autoclave carts are removed they will be inspected to make sure that the heat sensitive tape on the liners meet the standard to show that the required operating temperature was achieved. The PLC controller has a register tape that documents all activities of the load. Once the inspection is complete the carts are mechanically emptied into a stationary compactor with a 40 cubic yard steel roll off bin. A spare bin of the same type can be replaced while the other bin is being transported to the landfill so operations can continue without interruption. When full that container will be picked up by Waste Management and disposed of at the designated landfill consistent with all Class II solid commercial waste. The empty carts are then prepared with a new liner to accept red bags and sharps for treatment. The area around the autoclave shall be cleaned on a daily basis or more often as needed. The facility shall maintain a maintenance log describing any incidents, malfunctions, repairs, preventative maintenance, calibration, unit down for a period of time, etc. in which the autoclave experiences. Records shall be maintained for a period of 3 years.



## Section 3—Facility Closure

### 3.1 Closure Plan [30 TAC §326.71(k)]

The operator must comply with the closure requirements listed in 30 TAC §326.71(k).

List other activities that the facility will conduct during closure, if any (attach additional pages to answer this question if necessary):

The purpose of this project is the to bring medical waste into the facility treat the majority onsite and send other waste out to other permitted facilities for incineration and disposal. As such there is no finite life to this operation and no anticipated closure. Should operations cease all incoming waste will be diverted to other Company locations, and any waste at the facility will be transferred to other permitted Company sites. Additionally, the following steps will be taken:

TCEQ will be immediately notified of the intent to close and the anticipated date of final closure All surfaces where waste had been stored will be thoroughly cleaned using a two-step process of removing any dry debris followed by wet cleaning with an approved disinfectant solution. All cleaning and closure operations for medical waste will be conducted by Clean Harbors personnel.

All waste will be removed from the facility and transported to another offsite facility for treatment

All storage areas of the trucks used to transport medical waste will be cleaned and disinfected.

The containers are generally received in clean condition; any empty containers will be cleaned, removed and relocated.

Walls and floors in and around the biohazard storage area will be cleaned and disinfected thoroughly, as well as our transport van cargo area.

All signs designating medical waste will be removed.

All surfaces within the designated storage area including walls and floors will be disinfected with an **approved hard surface disinfectant solution of enough concentration to “high level”** disinfect the area.



If the trucks will continue to operate as medical waste transport vehicles the trucks will be routed to othe Clean Harbors facilities as needed.

The records shall be kept for 3 years after closure.

### 3.2 Closure Cost Estimate [30 TAC §326.71(m)]

Provide itemized closure cost estimates in Table 4. The cost estimates must meet the requirements listed in 30 TAC §326.71(m).

Attach documents detailing any additional unit closure costs not itemized. Enter the total of those additional unit closure costs on line 13 of the closure cost worksheet in Table 4.

*Table 4. Closure Cost Estimates Worksheet.*

Item No.	Item Description	Unit of Measurement	Quantity	Unit Cost	Total Cost
1	Site Evaluation and Engineering Review	NA	N/A		
2	Bid Document and Procurement	NA	N/A		
3	Contract Award and Administration	NA	N/A		
4	Clean-Up, Removal and Transport of Waste Stored On-Site	NA	80000		9500
5	Disposal of Waste at an Authorized Facility	lbs	80000		8000
6	Waste Treatment	lbs	Same as 5		0
7	Process Units Dismantling	NA	2	1000	2000
8	Wash Down and Disinfection of Facility and Processing Units	NA	N/A		5000
9	Vector Control	NA			



Item No.	Item Description	Unit of Measurement	Quantity	Unit Cost	Total Cost
10	Site Security	NA			
11	Signs, Newspaper Notice and TCEQ Notice	NA			2500
12	Facility Inspection and Closure Certification by Licensed Engineer	NA			
13	Additional Storage and Processing Unit Closure Cost Items (describe in attachments)	NA	NA	NA	INCL
14	Storage and Processing Unit Closure Costs Subtotal	NA	NA	NA	
15	Contingency Cost 15%	NA	NA	NA	4050
16	Total Closure Cost Estimate	NA	NA	NA	31050



## Section 4—Site Operating Plan

### 4.1 General [30 TAC §326.75(a)]

Provide the function and minimum qualifications for each category of key personnel to be employed at the facility including supervisory personnel in the chain of command (attach additional pages to answer this question if necessary):

All new employees receive OSHA 12-hour Hazardous Waste Operator and Emergency Response (HAZWOPER) training containing Bloodborne Pathogen (BBP) training before being allowed to work in the portion of the facility that contains waste. All employees receive annual refresher training that includes but is not limited to the above topics. A training course will be provided to all employees involved in the handling and tracking of medical waste. Training sessions are documented using sign in sheets and the data is stored in the company computer system. Site specific training is also conducted that includes location of emergency equipment, what to do in case of a spill, and storage locations of medical waste at the facility. All supervisors and the facility manager have gone through the same training and oversee the training of new personnel. As noted above Class B certified operators with the required medical waste specialized training are on staff as required.

Describe the procedures that the operating personnel will follow for the detection and prevention regarding the receipt of prohibited wastes, including random inspections of packaging of incoming loads, records, and training (attach additional pages to answer this question if necessary):

CH has in place the following measures to prevent and ensure that unauthorized waste is not being stored at the facility. The ultimate responsibility for the prevention of unauthorized waste being stored or treated at the facility rests on the generators. Generators have designated waste as biohazardous, sharps, pathological, chemotherapy or pharmaceutical waste and therefore it is handled as such. No random or routine inspection of opened/emptied containers is done prior to transferring/processing waste, as bagged or contained waste cannot be reopened per regulations.

The contract with the customer (generator) contains a clause pertaining to unauthorized disposal of waste considered non-conforming or outside the scope of regulated medical waste. The generator must sign this contract. A Waste Acceptance Protocol that outlines the laws and regulations concerning the identification, packaging, transportation, treatment and disposal of regulated medical waste is provided to each customer (generator).

Ongoing training, along with a review of customer records, is provided to customers on an as needed basis to insure compliance with all applicable laws and regulations to insure proper management of medical waste and protect against unauthorized disposal.





## 4.2 Waste Acceptance [30 TAC §326.75(b)]

Describe all sources and characteristics of medical wastes to be received for storage and processing or disposal (attach additional pages to answer this question if necessary):

The following wastes will be received for storage and transfer at this location: -"Biohazardous red bags waste" includes disposable items such as dressings, bandages, gauze, PPE and other items that have been saturated with blood or body fluids. "Sharps waste" means a device that has acute rigid corners, edges, or protuberances capable of cutting or piercing, including, but not limited to, hypodermic needles, hypodermic needles with syringes, blades, needles with attached tubing, acupuncture needles, root canal files, broken glass items used in health care such as Pasteur pipettes and blood vials contaminated with biohazardous waste, and any item capable of cutting or piercing from trauma scene waste. "Pharmaceutical" means a prescription or over-the-counter human or veterinary drug, including, but not limited to, a drug as defined in Section 109925 of the Federal Food, Drug, and Cosmetic Act, as amended, (21 U.S.C.A. Sec. 321(g)(1)). For purposes of this part, "pharmaceutical" does not include any pharmaceutical that is regulated pursuant to either of the following: The federal Resource Conservation and Recovery Act of 1976, as amended (42 U.S.C.A. Sec. 6901 et seq.). "Trace chemotherapeutic waste" means waste that is contaminated through contact with, or having previously contained, chemotherapeutic agents, including, but not limited to, gloves, disposable gowns, towels, and intravenous solution bags and attached tubing that are empty. Pathology waste includes both of the following: (A) Human body parts, except for teeth, removed at surgery and surgery specimens or tissues removed at surgery or autopsy that are suspected by the health care professional of being contaminated with infectious agents known to be contagious to humans or having been fixed in formaldehyde or another fixative. (B) Animal parts, tissues, fluids, or carcasses suspected by the attending veterinarian of being contaminated with infectious agents known to be contagious to humans.

Describe the sources and characteristics of recyclable materials, if applicable, to be received for storage and processing (attach additional pages to answer this question if necessary):

No recycling operations are employed at this location for regulated medical waste

Maximum amount of waste to be received daily: 50000  pounds/day  tons /day

Maximum amount of waste to be stored at any point in time: 100000  pounds  tons

Maximum length of time waste is to remain at the facility: 7  hours  days

Specify the maximum time that unprocessed and processed wastes will be allowed to remain on-site:

Processed: 1  hours  days

Unprocessed: 7  hours  days



Identify the intended disposition of processed and unprocessed waste received at the facility (attach additional pages to answer this question if necessary):

Treated waste will be disposed of at Waste Management Coastal Plains facility. 21000 E Highway 6, Alvin, TX 77511.

#### 4.3 Generated Waste [30 TAC §326.75(c)]

Describe how all liquids and solid waste resulting from the facility operations will be disposed of in a manner that will not cause surface water and groundwater pollution (attach additional pages to answer this question if necessary):

Wastewater discharge IS part of this project. Wastewater and condensate from the autoclaves, wastewater from the washing tunnels and boiler blowdown drains to adjacent trenches and by gravity into an inground multi-compartment interceptor outside Warehouse II. The interceptor allows for the separation of organics and heavy sediment from wastewater. A sump pump, P-9304 in the interceptor pumps wastewater into a RO Water Feed Tank, T-9301 on level control. Raw well water is added to the Water Feed Tank as needed to maintain a constant level. A RO Feed Pump P-9302 transfers the wastewater in the Water Feed Tank through Reverse Osmosis System M-9303 to recover as much water as practical for reuse and reduce the wastewater load. Bypass or reject water from the Reverse Osmosis System is considered wastewater for disposal.

The Clean Harbors LaPorte Facility has a septic tile bed for their sanitary wastewater, but it is insufficient to dispose of the wastewater from the Medical Waste Facility. It is estimated that the wastewater flow rate required for disposal will be 2.5 gpm continuously or 3,600 gallons/day. Wastewater to Wastewater Tank T-9401 is principally reject water from the Reverse Osmosis System. In addition, if the level in the Water Feed Tank gets too high, surplus wastewater can be transferred to the Wastewater Tank automatically on level control. It is proposed that a 10,000-gallon storage tank be provided as part of this project with a 250 gpm Wastewater Pump P-9402 to load wastewater onto tank trucks for transport offsite to the nearby Clean Harbors Deer Park facility at 2027 Independence Parkway South, La Porte, TX 77571 for disposal.

#### 4.4 Access Control [30 TAC §326.75(g)]

Describe how public access to the facility will be controlled (attach additional pages to answer this question if necessary):

Access to the facility is via a secured card key system. Only Clean Harbors employees authorized to access the property are issued these cards. Any visitors to the site are admitted into the office and require sign-in and identification as well as an escort to have access.



Describe how access roads and parking areas will be maintained to control dust and prevent mud from being track off-site (attach additional pages to answer this question if necessary):

All grounds are inspected daily and maintained in a clean and orderly condition. Vehicles are washed and cleaned as needed. The site for primary transit within the facility is paved so no mud or debris is tracked off-site.

Access to the facility will be controlled by a perimeter fence, with lockable gates. Identify or describe the type of fence that will be installed at the facility:

- A four-foot-high barbed wire fence;
- A six-foot-high chain-link fence; or
- Other: \_\_\_\_\_

4.5 Operating Hours [(30 TAC §326.75(i)]

Provide the operating hours of the facility; *include justification for hours outside of 7:00 a.m. to 7:00 p.m., Monday through Friday:*

5:00 am to 7:00 pm Monday through Friday with occasional weekends and holidays as needed. Extended hours are to allow for customer needs and traffic expediency.

List the alternative operating hours, if any, of up to five days in a calendar-year period:

\_\_\_\_\_



## Section 5—Other Site Operating Plan, Financial Assurance, and Closure Requirements

Attach additional pages describing how the facility will comply with the following requirements.

- 30 TAC §326.75(d), Storage
- 30 TAC §326.75(e), Recordkeeping and Reporting
- 30 TAC §326.75(f), Fire protection Plan
- 30 TAC §326.75(g)(2), Access Roads, Vehicle Parking, and Safety Measures
- 30 TAC §326.75(g), Access Control
- 30 TAC §326.75(h), Unloading of Waste
- 30 TAC §326.75(i)(3), Recording of Applicable Alternative Hours (if used)
- 30 TAC §326.75(j), Signs at Facility Entrances
- 30 TAC §326.75(k), Control of Windblown Material and Litter
- 30 TAC §326.75(l), Facility Access Roads
- 30 TAC §326.75(m), Noise Pollution and Visual Screening
- 30 TAC §326.75(n), Overloading and Breakdown
- 30 TAC §326.75(o), Sanitation
- 30 TAC §326.75(p), Ventilation and Air Pollution Control
- 30 TAC §326.75(q), Health and Safety
- 30 TAC §326.75(r), Disposal of Treated Medical Waste (if applicable)
- 30 TAC §326.71(n); Financial Assurance
- 30 TAC §326.71(l)(1); provide notice for final facility closure and information for the public and executive director no later than 90 days prior to initiating final closure.
- 30 TAC §326.71(l)(2); install signs and barriers upon notification of final closure to the executive director.
- 30 TAC §326.71(l)(3); provide certification of closure, and a request for voluntary revocation of facility registration within 10 days after completion of final closure of the facility.



## **Section 5 – Other Site Operating Plan, Financial Assurance, and Closure Requirements**

### **5.1 Storage (30 TAC §326.75(d))**

The facility is designed to handle 2 and 3 gallon sharps containers, 10 and 17 gallon sharps and pharmaceutical waste containers, and 31 and 43 gallon regulated medical waste (RMW) containers. Waste (sharps, pharmaceutical, and RMW) containers are emptied into carts and the wastes is autoclaved at approximately 290° Fahrenheit to sterilize it for landfilling, while the empty containers are cleaned and returned to customers for reuse.

The detailed process description of the flow is outlined in detail in the process flow narrative and diagram appendix.

All regulated medical waste arriving at the facility will be off loaded and placed either into the refrigerated trailer or the building as shown on the facility drawings so as not to create a nuisance, and to prevent putrefaction.

All medical waste will be stored separate from all other waste materials or other processes. Storage will be in a manner that does not constitute fire, safety, or health hazard or provide food or harborage for animals and disease vectors, and shall be contained in such a way as to not result in litter. This facility has existing protocols to control odors, vectors, and windblown waste. All medical waste containers are located either in the building or on the vehicle. Medical waste is by and large not putrescible and is transferred to other locations promptly. The company maintains a robust vector control program covering the entire property.

All containers coming onto the property are promptly and subsequently staged for processing as described later in this section or if applicable, transferred to other locations. Medical waste containers will be transferred from truck to truck, removed from trucks and placed in temporary storage (<72 hours) prior to being shipped offsite or placed in refrigeration before being shipped offsite for treatment and/or final disposal for those applicable waste streams. The majority of the waste will be staged in the building as described later in this section for treatment by sterilization at this location. The handling of the containers is maintained in such a way as to protect the integrity of each container during storage, handling, and transport.

No compactor is used for waste at any time, so there is no risk of public nuisance through material loss or spillage, odor, vector breeding or harborage, or other conditions.

### **5.2 Recordkeeping and Reporting (30 TAC §326.75(e))**

All records shall be maintained by the facility as required by applicable regulations.



A copy of the registration, the approved registration application, and any other required plan or other related document, including construction specifications and drawings, will be maintained at the Facility at all times as part of the Facility Operating Record. These documents will be available for inspection by agency representatives; The following information will be retained in the Facility Operating Record as required:

- Location- restriction demonstrations (if applicable);
- Inspection records and training procedures;
- Closure plans and any monitoring, testing, or analytical data relating to closure requirements;
- All cost estimates and financial assurance documentation relating to financial assurance for closure;
- Copies of all correspondence and responses relating to the operation of the facility, modifications to the registration, approvals, and other matters pertaining to technical assistance;
- All documents, manifests, shipping documents, ship tickets, etc., involving special waste (medical waste, pharmaceuticals, etc);
- Any document(s) as specified by the approved authorization or by the Executive Director;

If authorization under this section is no longer accurate because of a change in individuals or position, a new authorization satisfying the requirements of this section will be submitted to the executive director prior to, or together with, any reports, information, or applications to be signed by an authorized representative. All information contained in the operating record will be furnished upon request to the Executive Director and shall be made available at all reasonable times for inspection by the Executive Director. The owner or operator will retain all information contained within the operating record and the various plans required for the facility for the life of the operation. An alternative schedule for record keeping and notification requirements may be set by the Executive Director

### **5.3 Fire Protection Plan (30 TAC §326.75(f))**

There is a comprehensive fire protection plan at the facility that addresses all of the following:

1. There is always an adequate supply of water for firefighting purposes supplied under normal conditions by the water company. Potable water is pumped from an onsite well and used to fill a water supply tank.
2. Fire extinguishers that comply with all requirements are strategically placed to be readily available as needed. Fire extinguishers are located at each exit door in the facility building. Extinguishers are typically 20-lb ABC Type.
3. All employees are trained in the fire protection program including contact information, training and safety procedures. The Fire Protection Plan includes measures for fire protection, procedures for using fire protection measures, employee training and safety procedures, notification protocols and other appropriate items. The Fire Protection Plan is in compliance with all local fire codes.



#### **5.4 Access Control (30 TAC §326.75(g))**

Public access control is maintained through several means. Traffic is controlled by vehicle signage and access roads. The facility is locked and secured during non- operational hours. The facility is equipped with an alarm system monitored offsite.

The access roads to the facility are all paved roadways. Entrance is off Independence Parkway South. All operations are limited to the enclosed Warehouse II. Access to the facility is controlled via a fence that surrounds the perimeter, locking doors and gates and an alarm system.

Public access to this facility is restricted. Access is granted via a key card issued to authorized personnel. Visitors and others enter through the office door, and authorized access is granted after signing in and revealing the purpose of the visit. No visitors are unaccompanied at any time and authorized contractors on site must undergo an orientation for policies while onsite.

The facility access is designed for the traffic flow via the multi-lane paved road. Safe on-site access for all vehicles is provided, including adequate turning radii and does not disrupt normal traffic patterns. Parking is provided for equipment, employees, and visitors. All interior driving and parking surfaces are paved to minimize dust and mud, however the parking area at the medical waste building is not paved (gravel).

A 6-foot perimeter fence topped with 3-stranded barbed wire surrounds the facility and includes lockable and monitored pedestrian and vehicle gates for access. Monitoring is conducted via closed circuit cameras with recording devices. The property is always occupied during normal business hours.

#### **5.5 Unloading of Waste (30 TAC §326.75(h))**

Waste is unloaded in the specific designated area shown on the site and floor plans. From there it is placed either into a refrigerated trailer or the specified medical waste storage area within the building. Waste will be stored in the building both for treatment onsite or for transfer to another location as described. Unloading of waste in an area not otherwise authorized is prohibited. And prohibited wastes received, once identified, are returned to the generator of the waste in a timely manner or rejected to an alternative facility approved to accept such wastes.

Once unloaded the waste is staged for treatment onsite in the autoclave or for transfer to another location for treatment by incineration. The process flow diagram and narrative in this section describes the process in detail.

#### **5.6 Operating Hours (30 TAC §326.75(i))**

Operating hours of the facility are as follows:  
5:00 am to 7:00 pm Monday through Friday (operations)  
8:00 am to 5:00 pm Monday through Friday (office)  
Weekend and holiday hours vary by the work conditions.





The facility does have the ability to operate 24/7 to accommodate emergency situations, disasters, or other unforeseen circumstances that may disrupt waste management in the service area.

#### **5.7 Facility Sign (30 TAC §326.75(j))**

Signs measuring four feet by four feet with letters at least 3” high will be prominently displayed at the vehicle entrance locations. The signs will include the following information: facility name, type of facility, days and hours of operation, authorization number of the facility, and access rules.

#### **5.8 Control of Windblown Material and Litter (30 TAC §326.75(k))**

The entire location is maintained in a clean, healthy, and safe manner, through in part controlling windblown material and litter being promptly collected and disposed of. Routine inspection of the building and grounds are done to ensure any material and litter does not escape the property and cause nuisance.

#### **5.9 Facility Access Roads (30 TAC §326.75(l))**

Vehicle and personnel safety is of primary concern, so all interior roads are maintained to minimize depressions, ruts, and potholes.

Access and on-site roads are paved, all weather roads. Mud is not an issue from vehicles entering or leaving the facility as there are no unpaved roadways used to access the site and most on-site roads/parking are paved.

Dust is not an issue for vehicles entering or leaving the facility as there are no unpaved roads used to access the site and most on-site roads/parking lots are paved.

On-site roads/parking areas are maintained by Clean Harbors. Access roads are paved and maintained by the proper authority (municipal or state entity).

#### **5.10 Noise Pollution and Visual Screening (30 TAC §326.75(m))**

The only noise arising from the operation is that of vehicles entering or exiting the property and processing equipment. All noise levels fall well under permissible ranges as mandated by OSHA and other agencies. Visual screening is maintained due to the location of the operation which is around behind the buildings or within them.

#### **5.11 Overloading and Breakdown (30 TAC §326.75(n))**

The design capacity of the facility unit is 50,000 pounds per day of medical waste and this rate will not be exceeded. The facility will not accumulate solid waste in quantities that cannot be processed within such time that would allow for the creation of odors, insect breeding, or harborage of other vectors. There will be several measures employed by Clean Harbors to ensure waste is stored properly and repackaged in a



timely manner. Clean Harbors has sufficient storage capacity for incoming waste for at least three days of projected receipts.

Incoming wastes stored >72 hours are refrigerated. Incoming waste shipments can be delayed, or sent to an alternative permitted treatment facility if necessary.

This facility does not process grease trap waste, grit trap waste, or septage. This facility is not a mobile liquid waste processing facility.

If significant work stoppage should occur due to unexpected circumstances, the facility will restrict the receipt of waste accordingly. Under such circumstances, incoming deliveries will be delayed or diverted to an approved backup facility. If the stoppage lasts long enough to create a nuisance, odor or vectors, waste will be transferred off-site to an alternate approved facility.

In such an event that the facility becomes inoperable for periods longer than 24 hours, waste will be transported via approved transportation vehicles to an alternative processing facility approved by the TCEQ.

#### **5.12 Sanitation (30 TAC §326.75(o))**

Sanitary facilities and potable water are available at all times for employees and visitors.

All working surfaces that come into contact with wastes are washed down regularly. Washing and cleaning activities are conducted as needed in processing areas, at least twice weekly. Processing facilities that operate continuously must be swept daily. All working areas will be swept daily when in use as needed. Wash waters are not allowed to accumulate on site in order to prevent the creation of odors or attraction of vectors. Mopping is conducted for floor cleaning. Spills are cleaned with a 10% sodium hypochlorite solution or similar disinfection material. Spilled material is disinfected, containerized and treated in the onsite autoclave.

#### **5.13 Ventilation and Air Pollution Control (30 TAC §326.75(p))**

The area is well ventilated at all times. Air emissions from this facility will not cause or contribute to air pollution as defined in the Texas Clean Air Act. This Facility will comply with all applicable regulations regarding air emissions and will obtain any required authorizations from the TCEQ Air Permits Division. All liquid waste and solid waste shall be stored in odor-retaining containers and vessels. No odors are expected to occur in the facility since the medical waste is kept in sealed containers unless being repackaged. The facility is designed to provide adequate ventilation for odor control and employee safety. In the event of odors passing the facility boundary, actions will be taken to prevent nuisance odors from leaving the facility. Control of potential odors is accomplished through a number of measures including use of the routine cleanup, sealed containerized and refrigerated storage, and conducting operations within the enclosed indoor structure.



Treatment and storage are conducted within the facility structure. Medical waste exposure to the air is limited and minimal. Waste is received and stored in enclosed containers. When ready for repackaging, containers are opened and promptly placed into other acceptable medical waste containers which are subsequently sealed.

**5.14 Health and Safety (30 TAC §326.75(q))**

All employees are trained in appropriate sections of the Company's health and safety plan, the details of which are included in the Appendix 5-2

**5.15 Disposal of Treated Waste (30 TAC §326.75(r))**

All treated waste is placed in stationary compactors and when full transferred to the designated Waste Management landfill in Alvin, Texas. All approvals are in place for waste to be accepted at that location.

**5.16 Financial Assurance (30 TAC §326.71(n))**

Financial Assurance is provided by insurance procured by the applicant

**5.17 Final Facility Closure (30 TAC §326.71(l)(1))**

Applicant will provide TCEQ notice for final facility closure and information for the public and executive director no later than 90 days prior to initiating final closure.

**5.18 Signs and Barrier Installations (30 TAC §326.71(l)(2))**

Within 10 days after completion of final closure of the facility, applicant will provide certification of closure, and a request for voluntary revocation of facility registration



# Appendix 5-1

## Operation Plan and Spill Containment



Medical waste is typically picked up in local delivery trucks and delivered to the Facility. At the Facility, the containers will be offloaded either into the building or onto one of the parked trailers. It will be stored until such time that waste is treated onsite, a full truckload is sent to the final destination facility or transfer station, or until such time that the waste can no longer be stored at the Facility to maintain compliance within the storage timeline limitations.

The waste will be delivered to the treatment facility within 7 days of being received by the generator. Although typically waste will be stored at the facility for 24 to 72 hours prior to being sent to the appropriate location for treatment. Typically, waste is shipped out for transfer or other treatment twice weekly.

Should a spill occur at this facility or elsewhere, our personnel are well-equipped and specifically trained to handle the containment and cleanup. Each company vehicle, as well as our facility, is fully stocked with first aid supplies, personal protective equipment (e.g., gloves, face shield, respiratory protective equipment, Tychem/Tyvek coveralls, boot covers (chicken boots), etc.), absorbent materials, biohazard bags, disinfectant, dust pans, brushes, shovels, broom, etc. All spills or discharges shall be reported to TCEQ promptly.

In the event of a spill the following measures will be taken:

1. Identification of the spill to determine appropriate response, including Emergency Notification Requirements, PPE, and Cleanup Equipment
2. If cleanup is indicated, alert proper parties, don appropriate PPE, stop the spill from spreading, cover the spill with absorbent if needed, spray the spill with a bleach solution or other EPA approved disinfectant, allow sufficient contact time for the disinfectant, clean up the material and repackage for appropriate shipment. Follow up with a report to supervisors and place the report in an incident log for viewing by TCEQ personnel as needed.



# Appendix 5-2

## Health and Safety Plan



Applicable safety equipment includes the following:

Respirators available are 3M half-mask and full-face organic vapor respirators.

Each sales representative and facility employee who may involve in response to an emergency is issued a 1/2-face respirator. Numerous full-face respirators are also stored at the facility.

There are full-face shields available for all employees and safety glasses available for each employee at the facility. This equipment is stored in the emergency response kit located on northeast side of warehouse.

A pair of steel-toed boots is assigned to each employee. Two pair of neoprene/steel-toed boots are available for employee use.

Coveralls made of Tyvek Neoprene aprons are also used as needed.

A pair of neoprene gloves is assigned to each employee and are replaced as necessary.

Electronic copies of all SDSs are kept on a database. Hard copy of Safety-Kleen products that are used on a daily basis by Customer Service Representatives (CSRs) are kept at the CSR room.

Other equipment available include: mops, buckets, shovels, soap, portable pumps, wet/dry vacuum, telephones, eye wash stations, first aid station, fire extinguisher, and safety showers.





**Section 6—Applicant Certification and Signature**

The applicant is the person or entity who would be the owner of the facility and in whose name the registration would be issued. If the application is signed by an authorized representative for the applicant, the applicant must complete the delegation of signature authority.

**Certification by Applicant or Authorized Signatory [30 TAC §305.44]**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of applicant, or other person authorized to sign: David A. DeSha

Title of person signing: Director Environmental Compliance

Signature: [Handwritten Signature] Date: 12/1/2021

**Notarization**

SUBSCRIBED AND SWORN to before me by the said David Desha

On this 1 day of December, 2021

My commission expires on the 13 day of December, 2022



Notary Public in and for  
Hamilton County, Tennessee

**Applicant's Delegation of Signature Authority [30 TAC §305.43]**

I hereby delegate the person named below as my representative and hereby authorize said representative to sign any application, submit additional information as may be requested by the Commission; and appear for me at any hearing or before the Commission in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my authorized representative in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

Name of applicant's representative: \_\_\_\_\_

Name of person who is the applicant, or officer or official representing corporation or public agency that is the applicant: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Notarization**

SUBSCRIBED AND SWORN to before me by the said David Desha

On this 1 day of December, 2021

My commission expires on the 13 day of December, 2022

Notary Public in and for  
Hamilton County, Texas





**Section 7—Property Owner Affidavit**

**Affidavit [30 TAC §326.71(b)]**

*This section must be completed by the owner of the property on which the facility would be located.*

I am the owner of the land on which the proposed facility would be located. I acknowledge that the State of Texas may hold me either jointly or severally responsible for the operation, maintenance, and closure of the facility. I further acknowledge that the facility owner or operator and the State of Texas shall have access to the property during the active life and after closure for the purpose of inspection and maintenance.

Property owner name: David A. DeSha


Signature:  Date: 12/1/2021

**Notarization**

SUBSCRIBED AND SWORN to before me by the said David DeSha

On this 1 day of December, 2021

My commission expires on the 13 day of December, 2022

  
Notary Public in and for  
Hamilton County, Tennessee





## Attachments

Table Att-1. Required Attachments

Attachments	Attachment No.
General Location Map	1
Facility Access Map	2
Facility Layout Map	2
Land Use Map	3
Land Ownership Map	4
Land Ownership List	5
Land Ownership Hard Copy and Electronic Mailing List or Mailing Labels	6
Metes and Bounds Drawing and Description	7
Copy of Authorization to Discharge Wastewater to a Treatment Facility	N/A
Process Flow Diagrams and Narrative	8
Procedures for Operation and Testing of Treatment Equipment, if applicable	9
Procedures for Preparation of any Chemical used in Treatment, if applicable	N/A
Verification of Legal Status	10
Texas Department of Transportation Coordination Letters	N/A
Entity Exercising Maintenance Responsibility of Public Roadway, if applicable	N/A
FEMA Map	11
<input type="checkbox"/> Facility Design Demonstration for Flood Management, or <input type="checkbox"/> Conditional Letter of Map Amendment from FEMA, if applicable	N/A
Wetland Documentation, if applicable	N/A
Council of Governments Review Request Coordination Letters	12



Table Att-2. Additional Attachments; check all that apply.

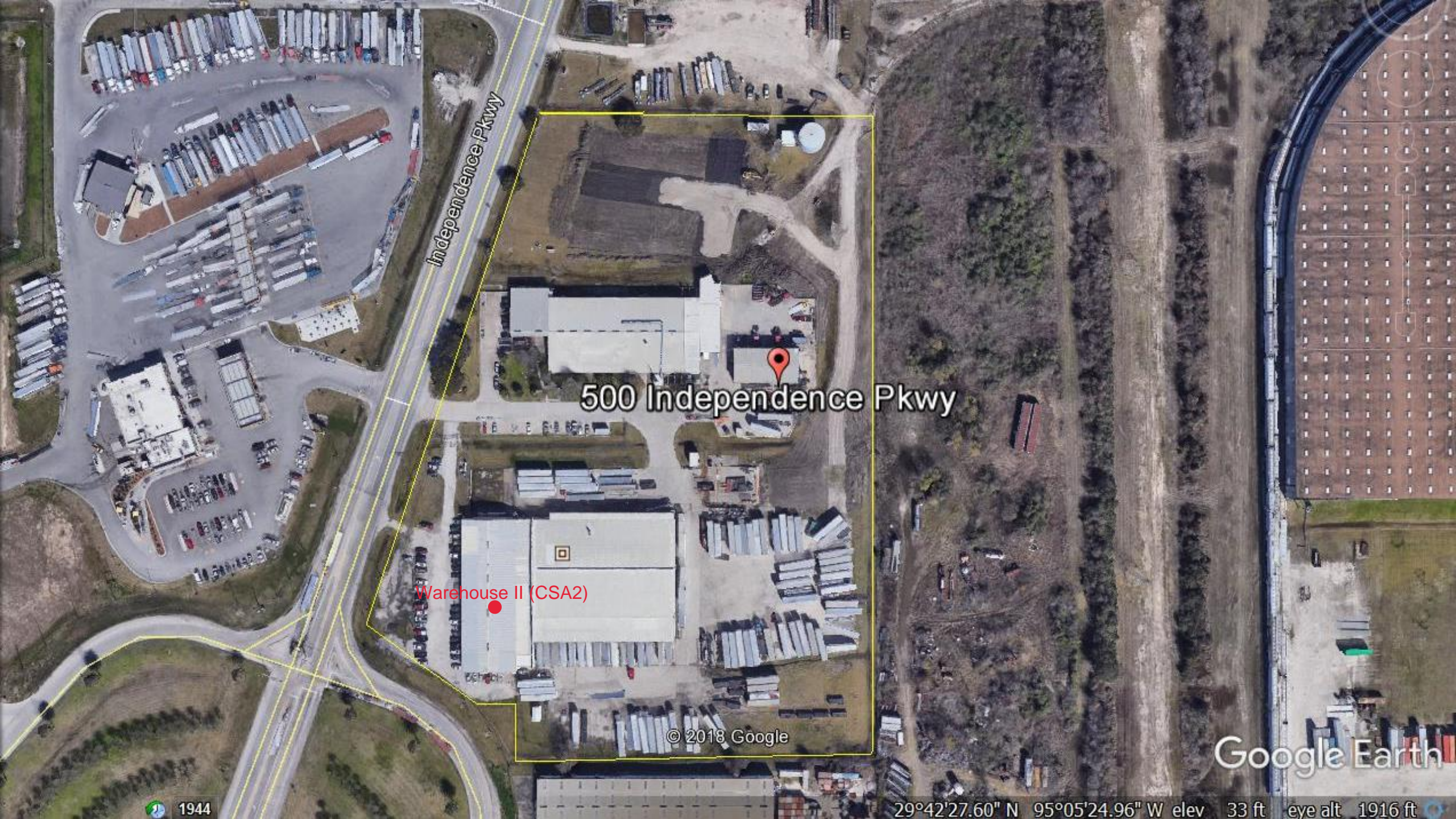
Attachments	Attachment No.
<input checked="" type="checkbox"/> TCEQ Core Data Form(s)	13
Fee Receipt or copy of check	14
<input checked="" type="checkbox"/> Published Zoning Map	15
<input checked="" type="checkbox"/> Delegation of Signatory Authority	16
Manufacturer Specifications for Waste Management Units	17
Additional Storage and Processing Unit Closure Cost Items	N/A
Confidential Documents	N/A



# Attachment 1







Independence Pkwy

500 Independence Pkwy

Warehouse II (CSA2)

© 2018 Google

Google Earth

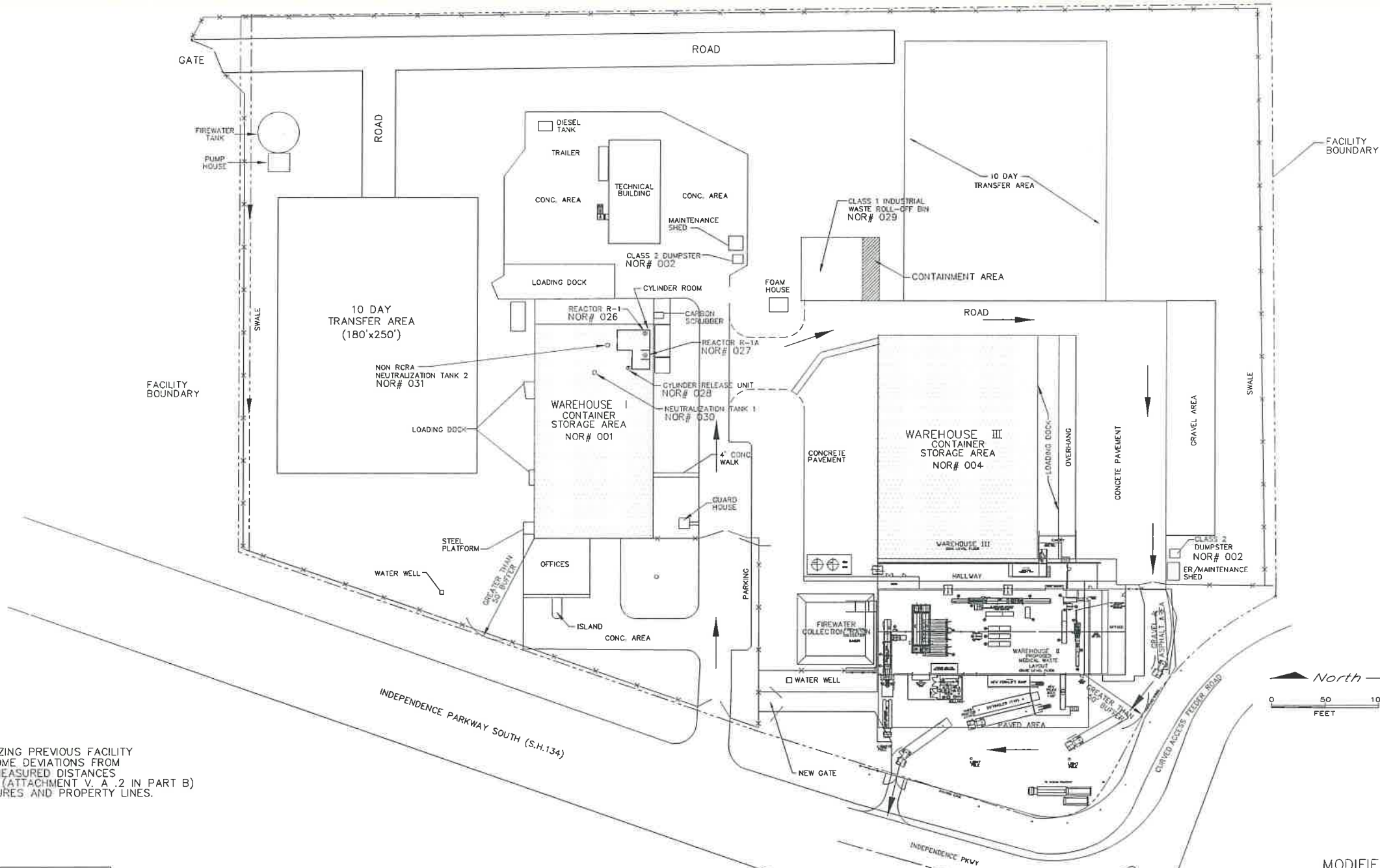
1944

29°42'27.60" N 95°05'24.96" W elev 33 ft eye alt 1916 ft





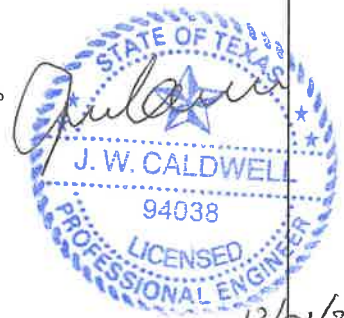
# Attachment 2



**NOTE:**  
DRAWING WAS RECREATED BY DIGITIZING PREVIOUS FACILITY DRAWING OF SAME INFORMATION. SOME DEVIATIONS FROM ACTUAL FEATURE LOCATIONS AND MEASURED DISTANCES MAY EXIST. SEE TOPOGRAPHIC MAP (ATTACHMENT V. A. 2 IN PART B) FOR ACCURATE RENDITION OF FEATURES AND PROPERTY LINES.

**LEGEND**

- FACILITY PROPERTY BOUNDARY
- CHAIN LINK FENCE
- BOUNDARY OF EXISTING CONTAINER STORAGE AREAS
- PROPOSED TRAFFIC PATTERN



12/01/21

MODIFIED LAST ON 8-24-21

**CleanHarbors** 500 Independence Parkway South  
LaPorte, Texas 77571  
Phone: (281) 727-7600

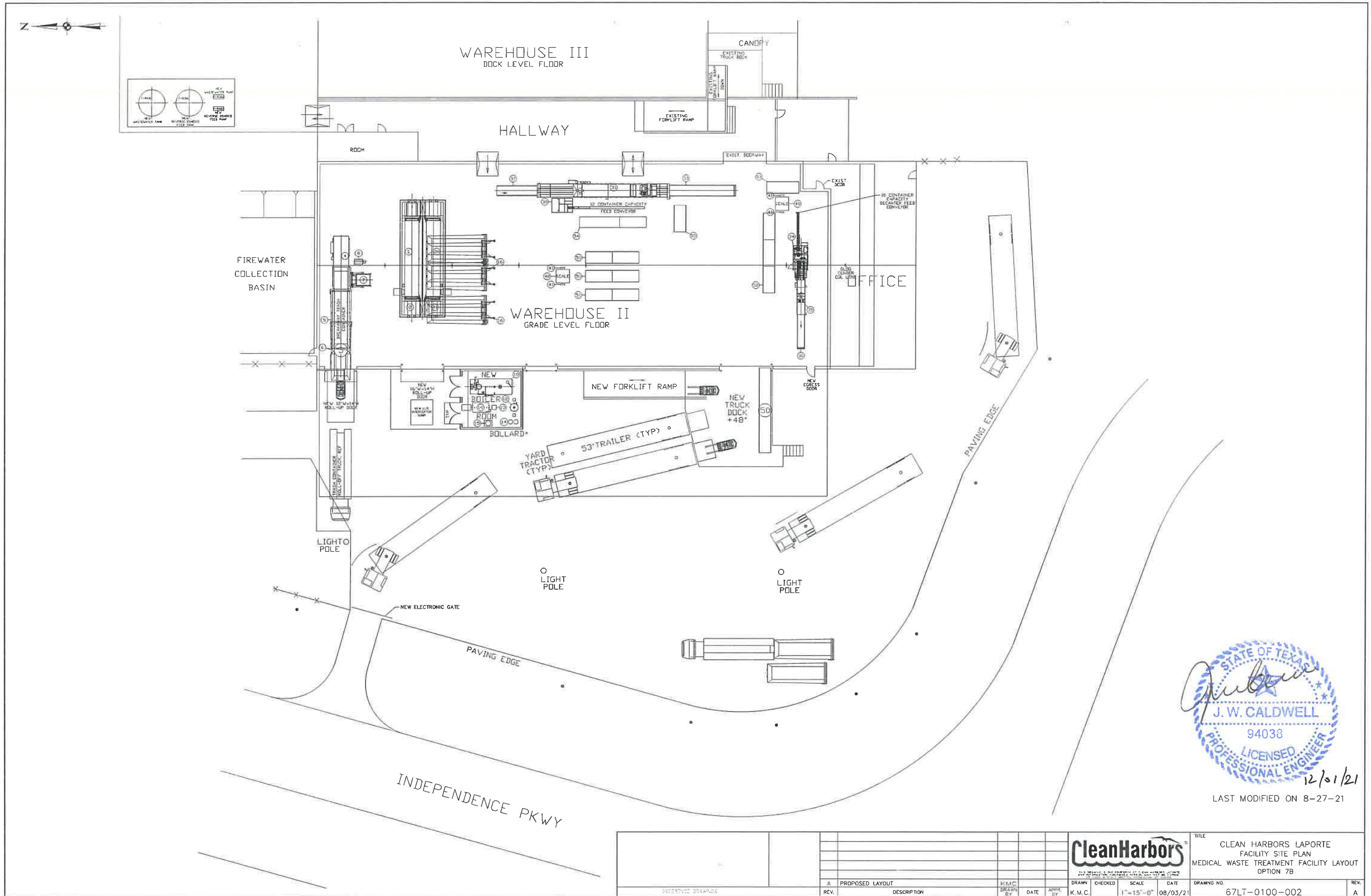
**LAPORTE**

THIS DRAWING AND THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CLEAN HARBORS (LA PORTE) INC. AND/OR SUBSIDIARIES THEREOF WHICH HAS BEEN FURNISHED IN CONFIDENCE UPON THE UNDERSTANDING AND CONDITION THAT ALL PERSONS, FIRMS OR CORPORATIONS RECEIVING THIS DRAWING AND INFORMATION SHALL BY THE ACT OF RECEIVING IT BE DEEMED TO HAVE AGREED TO MAKE NO COPY, DUPLICATION, DISCLOSURE WHATSOEVER OF ALL OR ANY PART THEREOF EXCEPT AS EXPRESSLY AUTHORIZED IN WRITING BY CLEAN HARBORS (LAPORTE) INC. DO NOT TO GIVE, LEND OR OTHERWISE DISPOSE OF THIS DRAWING, AND RETURN IT PROMPTLY UPON REQUEST.

TITLE:		SITE PLAN MEDICAL WASTE TRAFFIC PATTERN	
FILE: 67LT-0100-006			
APPROVED:	SCALE:	DWG. NO.:	REV.
	1 = 50	67LT-0100-006	A

REFERENCE DRAWINGS								
TITLE	DRAWING NO.							
A	PROPOSED LAYOUT	KMC						
REV.	DESCRIPTION OF ISSUE	DWN	CHECKED	CONSULTED	APPROVED	DATE	EST. NO.	





12/01/21

LAST MODIFIED ON 8-27-21

		TITLE CLEAN HARBORS LAPORTE FACILITY SITE PLAN MEDICAL WASTE TREATMENT FACILITY LAYOUT OPTION 7B	
DRAWN BY K.M.C.	CHECKED BY K.M.C.	SCALE 1"=15'-0"	DATE 08/03/21
REV. A	PROPOSED LAYOUT	H.M.C. DRAWN BY	DATE
REV.	DESCRIPTION	H.M.C. DRAWN BY	DATE
DRAWING NO. 67LT-0100-002		REV. A	



# Attachment 3

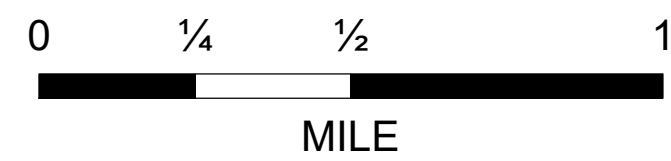
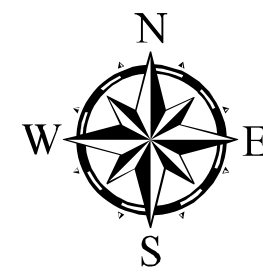


# FUTURE LAND USE

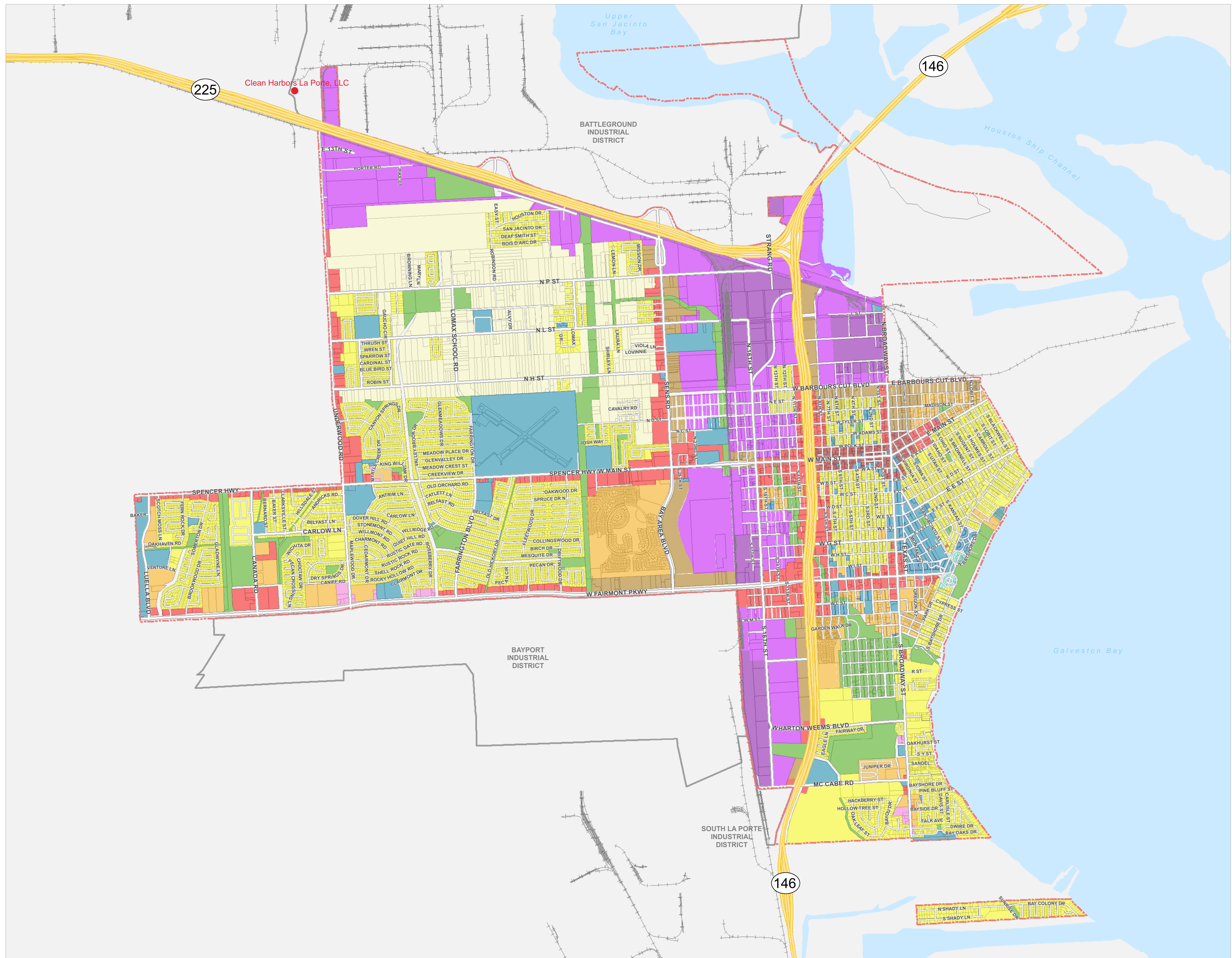
MARCH 2021

*The City of La Porte embraces its heritage, community values, and opportunities, while improving the quality of life for our residents.*

- LARGE LOT RESIDENTIAL
- LOW DENSITY RESIDENTIAL
- MID-HIGH DENSITY RESIDENTIAL
- MIXED USE
- NEIGHBORHOOD COMMERCIAL
- COMMERCIAL
- MAIN STREET
- BUSINESS INDUSTRIAL
- LIGHT INDUSTRIAL
- HEAVY INDUSTRIAL
- PARKS AND OPEN SPACE
- PUBLIC / INSTITUTIONAL
- ROAD
- HIGHWAY
- RAILROAD
- CITY LIMIT
- INDUSTRIAL DISTRICT



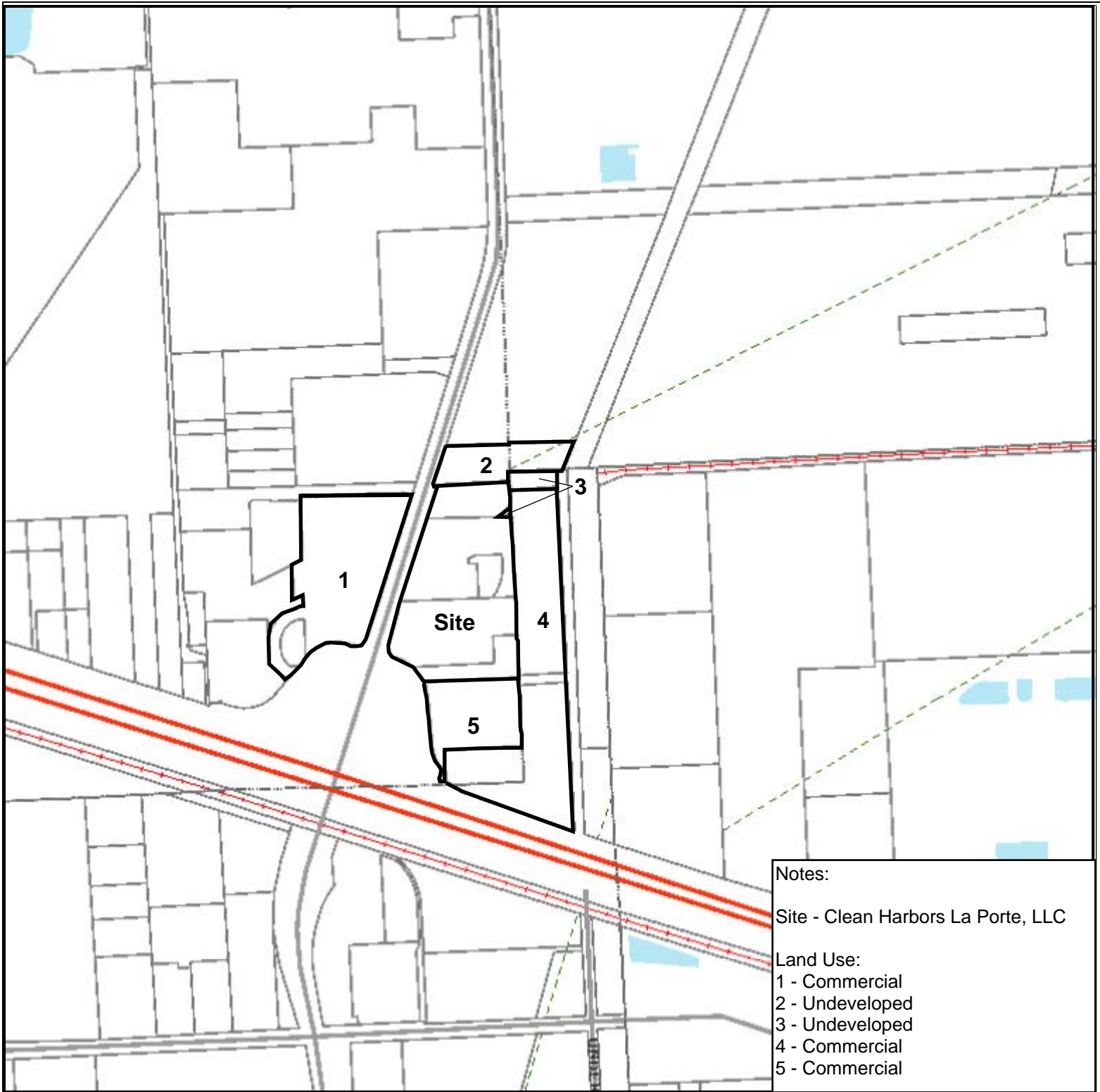
*Disclaimer: This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries. Gov. C. §2501.102. The user is encouraged to independently verify all information contained in this product. The City of La Porte makes no representation or warranty as to the accuracy of this product or to its fitness for a particular purpose. The user: (1) accepts the product AS IS, WITH ALL FAULTS; (2) assumes all responsibility for the use thereof; and (3) releases the City of La Porte from any damage, loss, or liability arising from such use.*





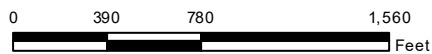
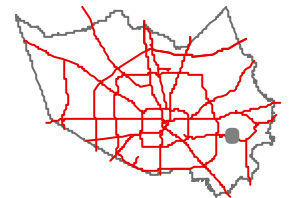


# Attachment 4



**Harris  
 County  
 Appraisal  
 District**

**Clean Harbors La Porte, LLC**  
**500 Independence Parkway**  
**La Porte, TX 77571**



**Date: 3/18/2020**

Geospatial or map data maintained by the Harris County Appraisal District is for informational purposes and may **not** have been prepared for or be suitable for legal, engineering, or surveying purposes. It does **not** represent an on-the-ground survey and only represents the approximate location of property boundaries.





# Attachment 5

The person identified below would be considered as affected persons.

1. LOVES TRAVEL STOP & COUNTRY STORE INC  
PO BOX 26210  
OKLAHOMA CITY OK 73126
2. DOW CHEMICAL  
332 SH 332 EAST TAX DEPT APB BLDG FL 4A  
LAKE JACKSON TX 77566
3. SOUTHERN PACIFIC RAILROAD COMPANY  
UNION PACIFIC RAILROAD CO  
1400 DOUGLAS ST STOP 1640  
OMAHA NE 68179
4. RAPID ENVIRONMENTAL SERVICES  
PO BOX 687  
DEER PARK TX 77536
5. BATTLEGROUND INVESTMENTS  
4222 VISTA RD  
PASADENA TX 77504



# Attachment 6



LOVES TRAVEL STOP & COUNTRY  
STORE INC.  
P.O. BOX 26210  
OKLAHOMA CITY, OK 73126

LOVES TRAVEL STOP & COUNTRY  
STORE INC.  
P.O. BOX 26210  
OKLAHOMA CITY, OK 73126

LOVES TRAVEL STOP & COUNTRY  
STORE INC.  
P.O. BOX 26210  
OKLAHOMA CITY, OK 73126

LOVES TRAVEL STOP & COUNTRY  
STORE INC.  
P.O. BOX 26210  
OKLAHOMA CITY, OK 73126

DOW CHEMICAL  
332 SH 332 EAST  
TAX DEPT APB BLDG FL 4A  
LAKE JACKSON, TX 77566

DOW CHEMICAL  
332 SH 332 EAST  
TAX DEPT APB BLDG FL 4A  
LAKE JACKSON, TX 77566

DOW CHEMICAL  
332 SH 332 EAST  
TAX DEPT APB BLDG FL 4A  
LAKE JACKSON, TX 77566

DOW CHEMICAL  
332 SH 332 EAST  
TAX DEPT APB BLDG FL 4A  
LAKE JACKSON, TX 77566

SOUTHERN PACIFIC RAILROAD  
COMPANY  
UNION PACIFIC RAILROAD CO  
1400 DOUGLAS ST STOP 1640  
OMAHA, NE 68179

SOUTHERN PACIFIC RAILROAD  
COMPANY  
UNION PACIFIC RAILROAD CO  
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RAPID ENVIRONMENTAL SERVICES  
P.O. BOX 687  
DEER PARK, TX 77504

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P.O. BOX 687  
DEER PARK, TX 77504

BATTLEGROUND INVESTMENTS  
4222 VISTA RD  
PASADENA, TX 77504

BATTLEGROUND INVESTMENTS  
4222 VISTA RD  
PASADENA, TX 77504

BATTLEGROUND INVESTMENTS  
4222 VISTA RD  
PASADENA, TX 77504

BATTLEGROUND INVESTMENTS  
4222 VISTA RD  
PASADENA, TX 77504



# Attachment 7

**Statement of Encroachments**

There are no visual or apparent encroachments on subject property.

**Legend of Symbols & Abbreviations**

- N - North
- S - South
- e/s - Over Head Service
- E - East
- W - West
- CC - County Clerk
- FC - Film Code
- FF - Fish/Floor
- FL - Flow Line
- D - Power pole
- POB - Point of Beginning
- o/h - Over Head Service
- ty - Typical
- W/ - Wire
- - - - - Record Datum
- - - - - Degree
- - - - - Minutes
- - - - - Seconds
- - Pole
- Iron Rod

**Notes Corresponding to Schedule B**

- 9a** An easement 30 feet in width for railroad, transportation and communication purposes over and across subject property in favor of Southern Pacific Transportation Company, as set forth in Subpart 1000 of the Texas Property Code, Chapter 110, Texas Property Code, Section 110.001, and in the Survey Records of Harris County, Texas, (Tract 1) APPLIES AND AFFECTS SUBJECT PROPERTY AS SHOWN HEREON.
- 9b** An easement 10 feet in width, the location of which begins on the Northwest line of subject property 211.21' from the Southwest corner, and extends into the property a distance of 140 feet, together with an underground conduit, existing thereon, in favor of the Texas Power and Light Company, as set forth in Subpart 1000 of the Texas Property Code, Chapter 110, Texas Property Code, Section 110.001, and in the Survey Records of Harris County, Texas, (Tract 2) APPLIES AND AFFECTS SUBJECT PROPERTY AS SHOWN HEREON.
- 9c** Unobstructed Easement right-of-way and easement in favor of Houston Pipe Line Company, as set forth in Subpart 1000 of the Texas Property Code, Section 110.001, and in the Survey Records of Harris County, Texas, as amended by Subpart 1000 of the Texas Property Code, Chapter 110, Texas Property Code, Section 110.001, and in the Survey Records of Harris County, Texas, (Tract 3) APPLIES AND AFFECTS SUBJECT PROPERTY AS SHOWN HEREON.
- 9d** A Houston Lighting & Power Company easement 10 feet in width and 213.50 feet in length, together with an unobstructed easement 20 feet wide from a pole 20 feet above the ground contained therein, over and across subject property, as set forth and located in Subpart 1000 of the Texas Property Code, Chapter 110, Texas Property Code, Section 110.001, and in the Survey Records of Harris County, Texas, (Tract 3) APPLIES AND AFFECTS SUBJECT PROPERTY AS SHOWN HEREON.
- 9e** Easement constituting 6,040 sq. ft. more or less, for the construction, maintenance and operation of a power line in favor of Southern Pacific Transportation Company over and across subject property, as set forth, described and located in Subpart 1000 of the Texas Property Code, Chapter 110, Texas Property Code, Section 110.001, and in the Survey Records of Harris County, Texas, (Tract 3) APPLIES AND AFFECTS SUBJECT PROPERTY AS SHOWN HEREON.

**General Notes**

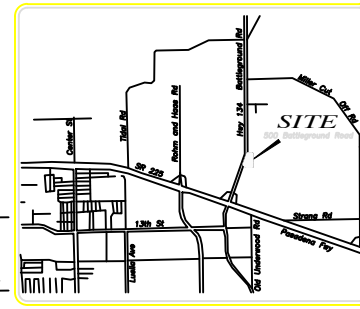
- 1) Except as shown there is no observable evidence of earth retaining work, building construction or building additions on site.
- 2) There is no observable evidence of site use as a waste dump, ramp or auxiliary landfill.
- 3) There is no observable evidence of a cemetery or a burial ground observed or of record on the property that the surveyor is aware of.
- 4) There are no signs and/or markings between the parcel lines of the subject property and its neighbors.
- 5) Portions of that certain deed conveyed from Carson Trading Company, Inc. a Louisiana Corporation, and its heirs, successors and assigns, to the State of Texas, as set forth in the Survey Records of Harris County, Texas, (Tract 3) APPLIES AND AFFECTS SUBJECT PROPERTY AS SHOWN HEREON.
- 6) The address posted on the building is 800 by observed building street numbers.

**Basis of Bearing**

The bearing of N 19°00'00" E being the Eastern right-of-way line of Battleground Road/State Highway No. 134 and the Westerly line of those certain four (4) tracts of land as described on: 2.1192 acres (Tract 3) as conveyed in a Special Warranty Deed dated June 26, 1989 to Techno Systems, Inc., a Texas Corporation, of record in Film Code No. 138-77-1461 and in County Clerk's File No. M323338 of the Official Public Records of Harris County, Texas, 6.53249 acres (Tract 1) as conveyed in a General Warranty Deed dated September 4, 1987 to Techno Environmental Systems, Inc., a Texas Corporation, of record in Film Code No. 181-35-1082 and in County Clerk's File No. L371843 of the Official Public Records of Harris County, Texas, 6.0113 acres (Tract 2) as conveyed in a Special Warranty Deed dated February 8, 1989 to Techno Environmental Systems, Inc., a Texas Corporation, of record in Film Code No. 138-74-0072 and in County Clerk's File No. M338841 of the Official Public Records and that certain 8.8827 acre (Tract 4) tract of land as conveyed in a Warranty Deed with Vendor's Lien dated August 31, 1987 to Carson Trading Company, Inc., a Louisiana Corporation, of record in Film Code No. 191-21-1311 and in County Clerk's File No. L310019 of the said Official Public Records, was used as "The Basis of Bearing" for this survey. Said line being designated N 19°00'00" E as shown hereon.

SCALE: 1" = 80'

**AREA:**  
16,300 Total Area  
710,034 Total Square Feet



**Record Legal Description**

TRACT 1  
A tract of land containing 6.53249 acres of the GEORGE ROSS SURVEY, ABSTRACT NO. 646, in Harris County, Texas, being out of that 260-acre tract of land as described in a deed of conveyance to the Harris County, Texas, as set forth in the Survey Records of Harris County, Texas, (Tract 1) APPLIES AND AFFECTS SUBJECT PROPERTY AS SHOWN HEREON.

TRACT 2  
A 6.0113 acre tract of land being the residue of a certain 6.0113 acre tract, as conveyed from the Federal Reserve Bank of Dallas to T. E. HALL, JR., by deed dated June 25, 1925, as recorded in volume 3025 of the Public Records of Harris County, Texas, and 2.1192 acres of that tract being more particularly described by metes and bounds as follows:

TRACT 3  
A 2.1192 acre tract of land being the residue of a certain 6.0113 acre tract, as conveyed from the Federal Reserve Bank of Dallas to T. E. HALL, JR., by deed dated June 25, 1925, as recorded in volume 3025 of the Public Records of Harris County, Texas, and 2.1192 acres of that tract being more particularly described by metes and bounds as follows:

TRACT 4  
A 8.8827 acre tract of land being the residue of a certain 8.8827 acre tract, as conveyed from Carson Trading Company, Inc. to the State of Texas, as set forth in the Survey Records of Harris County, Texas, (Tract 3) APPLIES AND AFFECTS SUBJECT PROPERTY AS SHOWN HEREON.

**As-Surveyed Legal Description**

Being 16,300 acres (710,034 square feet) of land lying in the George Ross Survey in Harris County, Texas, being out of and a portion of that certain 260-acre tract of land as described in a deed of conveyance to the Harris County, Texas, as set forth in the Survey Records of Harris County, Texas, (Tract 1) APPLIES AND AFFECTS SUBJECT PROPERTY AS SHOWN HEREON.

Being a 6.0113 acre tract of land being the residue of a certain 6.0113 acre tract, as conveyed from the Federal Reserve Bank of Dallas to T. E. HALL, JR., by deed dated June 25, 1925, as recorded in volume 3025 of the Public Records of Harris County, Texas, and 2.1192 acres of that tract being more particularly described by metes and bounds as follows:

Being a 2.1192 acre tract of land being the residue of a certain 6.0113 acre tract, as conveyed from the Federal Reserve Bank of Dallas to T. E. HALL, JR., by deed dated June 25, 1925, as recorded in volume 3025 of the Public Records of Harris County, Texas, and 2.1192 acres of that tract being more particularly described by metes and bounds as follows:

Being an 8.8827 acre tract of land being the residue of a certain 8.8827 acre tract, as conveyed from Carson Trading Company, Inc. to the State of Texas, as set forth in the Survey Records of Harris County, Texas, (Tract 3) APPLIES AND AFFECTS SUBJECT PROPERTY AS SHOWN HEREON.

**ALTA/ACSM Land Title Survey**  
for  
Saftey-Kleen Project  
Site No. 13  
#242  
500 Battleground Road  
Le Porte, TX 75751

Based Upon File Commission No. LC2 2002 03 2331 of Layover Title Insurance Corporation issuing an effective date of March 24, 2002

**Surveyor's Certification**  
The undersigned, a registered land surveyor in and for the State of Texas, does hereby certify to the correctness of the foregoing title survey, in accordance with the provisions of the Texas Property Code, Chapter 110, Texas Property Code, Section 110.001, and in the Survey Records of Harris County, Texas, (Tract 3) APPLIES AND AFFECTS SUBJECT PROPERTY AS SHOWN HEREON.

**Survey Prepared by:**  
ALTA/ACSM Land Title Survey, Inc.  
1000 North Loop West, Suite 1000  
Houston, Texas 77008  
Phone: (713) 666-3500  
Fax: (713) 666-3500  
www.altaacsm.com

**Sheet 1 of 1**

**53**

**ROCK & CLARK**  
LAND SURVEYS



# Attachment 8

## Process Flow Descriptions

### General

The purpose of the Medical Waste Process is to receive Regulated Medical Waste and Sharps in specially designed containers, empty the containers into reusable carts, sterilize the waste in the carts at an elevated temperature and pressure to make it suitable for disposal, and finally, clean the containers so they can be returned to medical facilities for reuse.

### Operating Description

Medical waste arrives at the Clean Harbors LaPorte Facility in straight trucks and 53-foot van trailers. The trucks and trailers enter the facility and present their paperwork to the guard before proceeding to the Medical Waste Receiving Dock on the west side of Warehouse II. Trucks and trailers are backed into one of two docking positions and wheels are chocked. Dock levelers are used to provide a smooth transition from the trucks and van trailers to the dock. The dock is attached to Warehouse II but outside with a canopy, no walls.

Medical waste is shipped in four container sizes: 10, 17, 31 and 43 gallons on 48-inch x 48-inch plastic pallets in shrink wrap. In addition, 2 and 3 gallon sharps containers are received in storage racks on rollers. All medical waste containers received at the site are reusable and are cleaned and recycled back to customers for reuse.

Forklifts are used to remove pallets from the trucks and van trailers and load the pallets onto Dock Conveyor M-1100. The Dock Conveyor is located at the back of the loading dock and is a gravity inclined roller conveyor designed to index pallets of RMW to the Warehouse II roll up door so they can be removed by a forklift inside the building. Similarly, Sharps on steel racks are wheeled off the trucks by hand and maneuvered to the Warehouse II roll up door to be picked up by a forklift inside the building.

Medical Waste containers are managed in three groups: Group 1 (31 and 43 gallon) containers, Group 2 (10 gallon and 17 gallon) containers, and Group 3 (Sharps Racks).

### Group 1 Containers

Group 1 (31 and 43 gallon) containers are delivered shrink wrapped on pallets and stacked on Dock Conveyor M-1100. From inside Warehouse II, a forklift lifts the pallets off Conveyor M-1100 and moves them down four feet to grade in Warehouse II. Pallet loads are staged on three gravity roller conveyors M-1102, 1103 and 1104. Pallet loads are broken down on the roller conveyors and individual containers are moved to a floor mounted scale M-1105 and weighed. The weight is recorded automatically against the scanned bar code for the pallet load. Pallets are passed between two plastic detectors connected to Radiation Detector M-1101. Radioactive waste in the containers will set off an alarm and the pallet is moved to a rejected pile for redirection to another disposal facility. Radioactive waste cannot be approved or processed at this facility.

Hinged lids are unlocked and 31 and 43-gallon containers are manually loaded onto one of three Cart Tippers M-1106, 1007 and 1108. The Cart Tippers are hydraulically powered and lift the containers, two at a time, and dump the contents of the containers into Autoclave Carts with a red plastic liner.

When full, the Autoclave Carts are manually wheeled from the Cart Tippers and staged at the Autoclave. Empty 31 and 43-gallon containers and their lids are nested and positioned to be manually loaded onto Washer Feed Conveyor M-1125 for washing and decontamination in Large Washing Tunnel M-1126.

Autoclave M-1111 can accommodate up to six Autoclave Carts which are processed in a batch-wise basis. The Autoclave is set into a concrete pit to allow the Autoclave Carts to be rolled into the Autoclave at grade. The Autoclave is provided with hydraulically operated doors at the front and back to load and remove Carts from the Autoclave. Hydraulically powered Cart Bridges M-1109 and M-1110 at the front and back of the Autoclave allow for the Carts to be rolled into and out of the Autoclave manually and then dropped into the pit to allow the hydraulically powered Autoclave doors to be closed.

The Autoclave cycle is controlled by a PLC control panel which heats and pressurizes the Autoclave on a timed cycle before depressurizing the Autoclave at the end of the cycle. Batches are processed through the cycle in about 45 minutes with a further 15 minutes per batch to load and unload the Autoclave. The Autoclave is provided with 150 psig saturated steam from Steam Boiler F-9901 for heating and pressurizing. Condensate is collected and returned to the boiler room. A vent from the Autoclave through the roof is used to depressurize and vent the Autoclave at the end of the cycle before the back hydraulic doors are opened.

Hot Autoclave Carts are wheeled from the Autoclave manually at the end of the cycle and staged at the Trash Compactor. Autoclave Carts are manually loaded onto the Cart to Compactor Tipper M-1115 that lifts the Autoclave Cart and dumps the contents into Stationary Compactor M-1116. A Ram in the Stationary Compactor pushes and compacts the waste into the 40 cubic yard Octagonal Roll Off Compactor M-1118. Compacted sterilized medical waste is shipped by truck to a local non-hazardous Subtitle D landfill for disposal. The Tipper and Ram are hydraulically powered from a Power Pack M-1117 adjacent to the Compactor.

#### Group 2 Containers

Similar to Group 1 (31 and 43 gallon) containers, the Group 2 (10 and 17 gallon) containers are received shrink wrapped on pallets and loaded onto the Dock Conveyor M-1100. Palletized Group 2 containers of sharps and regulated medical waste are moved from the Dock Conveyor to incoming Roller Conveyor M-1121. Similar to Group 1 containers, the palletized Group 2 containers are broken down and individual containers are weighed on Floor Scale M-1120 and the weight of the pallet is automatically tied to the pallet waste bar code. A Radiation Detector M-1119 at the Scale confirms the absence of radioactive

materials. Weighed Group 2 palletized containers are repalletized and staged temporarily on Conveyor M-1122 before being moved to Conveyor M-1123 for processing.

At the end of Conveyor M-1123, pallets of Group 2 containers are broken down and the 10- and 17-gallon containers are loaded onto the Feed Conveyor for M-1124 Decanter Tipper. Decanter Tipper M-1124 uses a programmed robotic arm to pick 10- and 17-gallon containers from the Feed Conveyor, unlocks the lid, tips the contents into an Autoclave Cart and inverts the container and hinged lid onto Feed Conveyor M-1125 to Tunnel Washer M-1126. These containers are also inverted for washing. The Washing Tunnel controls the indexing of 10/17 containers and 31/43 containers into the Tunnel.

Tunnel Washer M-1126 uses hot water to wash and rinse the containers and lids as pass through the tunnel on a powered conveyor. Live steam is used to heat the tanks that supply the tunnel washing and rinsing sections. Hot washed containers and lids are blown to remove moisture and emerge from the tunnel onto a Discharge Conveyor M-1127 where they air cool. Cool, clean containers on Discharge Conveyor M-1127 are palletized by hand onto Washed Palletizing Conveyor M-1128 based on size. Pallets are built with stacked clean containers into separate pallets of 10 and 17-gallon containers, 31-gallon containers and 43-gallon containers. The 10/17 gallon containers are nested in the inverted position while the 31 and 43 gallon containers are nested upright. Full pallets are shrink wrapped using Shrink Wrap Machine M-1129 to prevent containers from spilling during forklift movement before being staged for Outbound Shipment at the Loading Dock.

### Group 3 Containers

Group 3 (2 and 3 gallon) sharps containers are received in steel racks with rollers. There are up to 60 containers per steel rack. The steel racks are manually moved off the van trailer onto the loading dock and maneuvered to the roll up door. A forklift is used to lift the steel racks from the loading dock to the floor of Warehouse II. The wheeled steel racks are manually rolled to the floor mounted scale adjacent to Sharps Decanter M-1130. Floor mounted Scale M-1120 that is used for weighing 10 and 17-gallon containers is also used to weigh the Sharps Racks as a total weight. Radiation Detector M-1119 is used to confirm there are no radioactive materials in the Sharps Racks.

After being weighed, the Sharps Racks are positioned at the Sharps Decanter M-1130 and manually loaded onto the Decanter feed conveyor. Similar to the 10 and 17-gallon Decanter M-1124, the Sharps Decanter uses a robotic arm to automatically open the lids of the Sharps Containers and dumps the contents into an Autoclave Cart. The Sharps Container with its hinged lid is inverted and set onto the feed conveyor for the Sharps Washing Tunnel M-1131.

Similar to the Large Tunnel Washer, Sharps Washing Tunnel M-1131 uses hot water to wash and rinse the 2 and 3-gallon sharps containers and lids as pass through the tunnel on a powered conveyor. Live steam is used to heat the tanks that supply the tunnel washing and rinsing sections. Hot washed sharps containers and lids are blown to remove moisture and

emerge from the tunnel onto a Discharge Conveyor M-1132 where they air cool. Cool, clean containers on Discharge Conveyor M-1132 are reloaded by hand into Sharps Racks to be returned to customers for reuse.

#### Process Flow Diagrams

The following Process Flow Diagrams are provided for the Medical Waste Project and are included in this section.

67LT-1100-050

Autoclave PFD

67LT-1100-051

Large Washing Tunnel PFD

67LT-1100-052

Small Washing Tunnel PFD



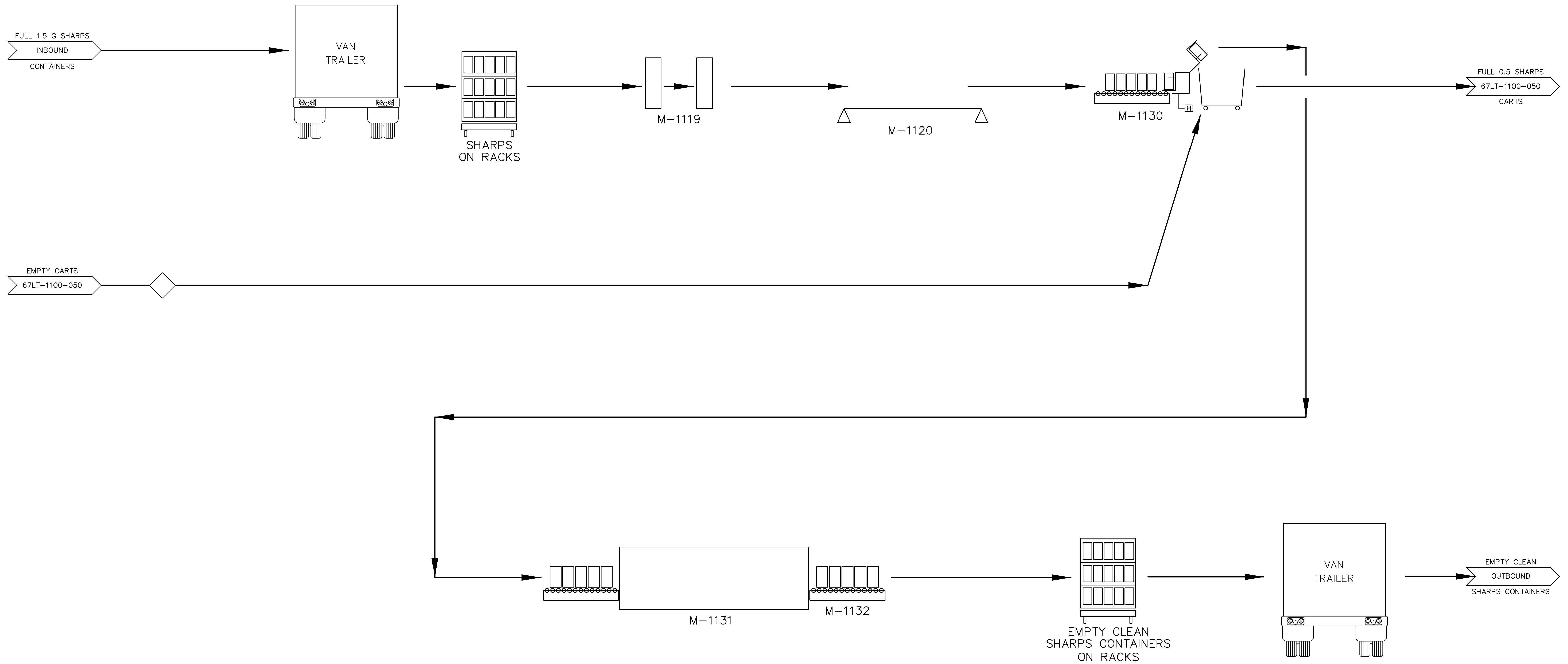
M-1119  
RADIATION DETECTOR  
ALSO USED FOR 10/17  
400 cps PER uR/h  
120 V, PLASTIC

M-1120  
FLOOR SCALE  
ALSO USED FOR 10/17  
5,000 lb. CAPACITY  
120 V, CARBON STEEL

M-1130  
SHARPS DECANTER  
10 SEC. PER CYCLE  
2 - 3 GAL. SHARPS  
304 STAINLESS STEEL

M-1131  
SHARPS TUNNEL WASHER  
200 F, ATMOS PRESS  
200 - 300 CONTAINERS/h  
304 STAINLESS STEEL

M-1132  
SHARPS DISCHARGE CONVEYOR  
' WIDE x ' LONG, GRAVITY  
CARBON STEEL



STREAM NO.	◇	◇	◇	◇	◇	◇	◇	◇	◇
STREAM NAME									
TEMPERATURE, °F									
PRESSURE, psig									
CONTINUOUS/BATCH									

MODIFIED LAST ON 8-24-21

REFERENCE DRAWINGS		A PRELIMINARY DESIGN		K.M.C.							TITLE CLEAN HARBORS LAPORTE, TX MEDICAL WASTE FACILITY PROCESS FLOW DIAGRAM SHARPS WASHER
REV.	DESCRIPTION	DATE	APPR. BY	DRAWN BY	CHECKED	SCALE	DATE	DRAWING NO.	REV.		
				K.M.C.	J.W.C.	NONE	08/11/21	67LT-1100-052	A		







# Attachment 9

## Operation and Testing of Autoclave

Each autoclave load will consist of approximately 500 pounds in each autoclave cart. The actual amount of waste may vary slightly. The empty carts will be lined with an autoclavable clear liner and filled with approximately 500 pounds of red bags and sharps containers. Each cart liner has a heat sensitive strip to verify the attainment of the required temperature. Once the carts are full and have the biological indicators placed as outlined above, they will be placed in the autoclave.

1. Operating parameters will be preset at 290°F for 45 minutes.
2. The autoclave door is closed, and the safety lock engaged
3. The start key is turned, and the automatic sequence begins with no need for further operator intervention until the conclusion of the cycle.
4. The PLC controller will begin recording the cycle data, and each complete cycle from start key to opening the door and unloading is approximately 1:15 hours (one hour and fifteen minutes). The actual cycle time will vary somewhat depending on several factors including ambient temperature, humidity, and size of the load.
5. The autoclave will automatically close the Blow-down (exhaust valve) and the steam inlet valve will open to allow steam from the boiler to fill the autoclave. While the chamber is filling cool air and condensate will be expelled through the steam trap to the drain.
6. Once the autoclave has reached an internal temperature of 290° the steam inlet valve will close and the timer will start the treatment time of 45 minutes, and the steam inlet valve will open and close as needed to automatically maintain the temperature of 290°. During this time as steam condenses to heat the load condensate is automatically expelled through the steam trap.
7. When the timer has completed the 45-minute processing time the steam inlet valve will close, and the blow-down valve will open to release the steam inside the chamber. When the pressure has dropped to zero psi the controller stops recording and the safety lock can be safely disengaged to open the autoclave door and remove the carts.

When the treatment cycle is complete, and the autoclave carts are removed they will be inspected to make sure that the heat sensitive tape on the liners meet the standard to show that the required operating temperature was achieved. The PLC controller has a register tape that documents all activities of the load. Once the inspection is complete the carts are mechanically emptied into a stationary compactor with a 40 cubic yard steel roll off bin. A spare bin of the same type can be replaced while the other bin is being transported to the landfill so operations can continue without interruption. When full that container will be picked up by Waste Management and disposed of at the designated landfill consistent with all Class II solid commercial waste. The empty carts are then prepared with a new liner to accept red bags and sharps for treatment. The area around the autoclave shall be cleaned on a daily basis or more often as needed. The facility shall maintain a maintenance log describing any incidents, malfunctions, repairs, preventative maintenance, calibration, unit down for a period of time, etc. in which the autoclave experiences. Records shall be maintained for a period of 3 years.



# Attachment 10

# Delaware

The First State

*I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "CLEAN HARBORS LAPORTE, LLC" IS DULY FORMED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF THE FIFTEENTH DAY OF NOVEMBER, A.D. 2021.*

*AND I DO HEREBY FURTHER CERTIFY THAT THE ANNUAL TAXES HAVE BEEN PAID TO DATE.*



A handwritten signature in black ink, appearing to read "JBULLOCK", is written over a horizontal line. Below the line, the text "Jeffrey W. Bullock, Secretary of State" is printed in a small font.

3523542 8300

SR# 20213796398

You may verify this certificate online at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

Authentication: 204688284

Date: 11-15-21



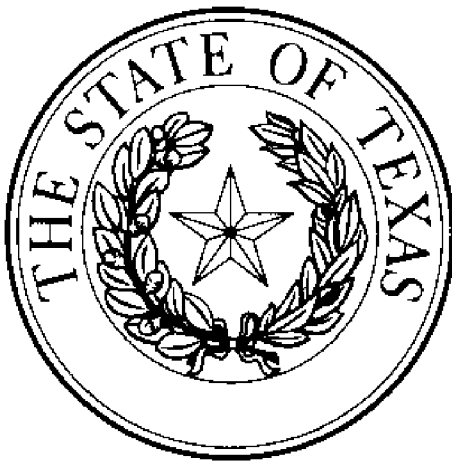
## Office of the Secretary of State

### Certificate of Fact

The undersigned, as Secretary of State of Texas, does hereby certify that the document, Registration of Limited Partnership for Clean Harbors LaPorte, LLC (file number 800102165), a DELAWARE, USA, Foreign Limited Liability Company (LLC), was filed in this office on July 11, 2002.

It is further certified that the entity status in Texas is in existence.

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on November 15, 2021.



A handwritten signature in black ink, appearing to read "John B. Scott".

John B. Scott  
Secretary of State





# Attachment 11

# FLOOD EDUCATION MAPPING TOOL

FLOOD EDUCATION MAPPING TOOL | ABOUT THE TOOL | FAQs | HCFCD.org



## ADDRESS SEARCH [HELP](#)

490 independence parkway, laporte   
 e.g. 9900 Northwest Freeway, Houston, TX 77092

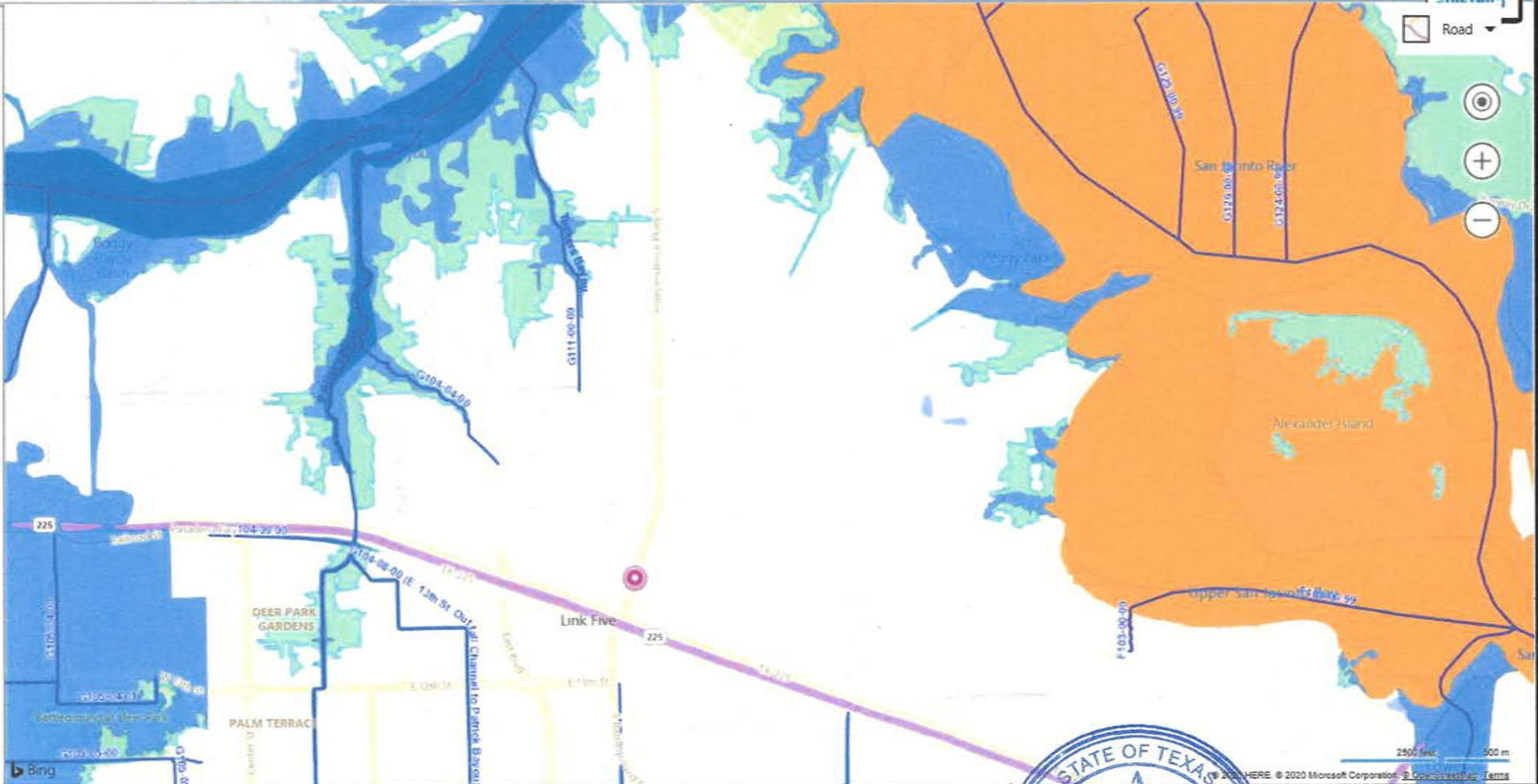
## MAP VIEW OPTIONS - Select One

- Mapped Floodplains
  - Floodway
  - 1% (100-year) Floodplain
  - 0.2% (500-year) Floodplain
  - 1% (100-year) Coastal Floodplain
- Watersheds (color-coded)
- Ponding
- Channels (Bayous and Creeks)
  - Open Channels
  - Enclosed Channels
- Harris County Boundary

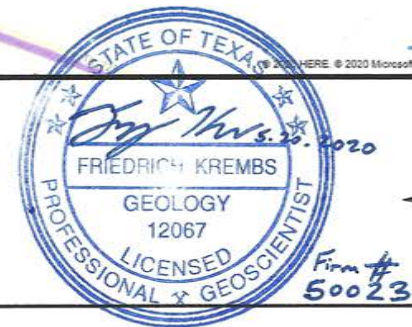
[Reset to County-Level View](#) [Disclaimer](#)

An interactive mapping tool of the Harris County Flood District

## Facility



## Clean Harbors La Porte, LLC Flood Plain Map



Harris County Flood Control District  
 Obtained from <https://www.harriscountyfemr.org/>  
 3/18/2020



# Attachment 12

Mr. Chuck Wemple  
Executive Director  
Houston-Galveston Area Council of Governments  
3555 Timmons Land Suite 120  
Houston, TX 77277

Re: Requested Review of TCEQ Application for Clean Harbors LaPorte, LLC

Dear Mr. Eastland:

Clean Harbors LaPorte, LLC is applying for a Medical Waste Registration to TCEQ to allow for the treatment, storage and transfer of medical waste at our existing operation in La Porte. This incremental use does not change or alter our core business but is in response to customer requests to provide this additional service. The application is attached for your review.

The TCEQ application requires us to submit a request for review to the applicable council of governments for our area. This request to you will provide documentation to TCEQ that we are complying with that provision of the application.

Should you have any questions please do not hesitate to contact me at your convenience.

Sincerely



# Attachment 13



TCEQ Use Only

# TCEQ Core Data Form

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

## SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input checked="" type="checkbox"/> Other <b>Class 2 Modification</b>	
2. Customer Reference Number (if issued)	<a href="#">Follow this link to search for CN or RN numbers in Central Registry**</a>	3. Regulated Entity Reference Number (if issued)
CN 603661844		RN 102949021

## SECTION II: Customer Information

4. General Customer Information	5. Effective Date for Customer Information Updates (mm/dd/yyyy)	1/1/2022	
<input type="checkbox"/> New Customer		<input checked="" type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		<input type="checkbox"/> Change in Regulated Entity Ownership	
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>			
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)		If new Customer, enter previous Customer below:	
Clean Harbors La Porte, LLC			
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
010068906	10426989991	481263744	1577936
11. Type of Customer:	<input checked="" type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other:	
12. Number of Employees		13. Independently Owned and Operated?	
<input type="checkbox"/> 0-20 <input checked="" type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following			
<input type="checkbox"/> Owner		<input type="checkbox"/> Operator	
<input type="checkbox"/> Occupational Licensee		<input checked="" type="checkbox"/> Owner & Operator	
<input type="checkbox"/> Responsible Party		<input type="checkbox"/> Voluntary Cleanup Applicant	
<input type="checkbox"/> Other:			
15. Mailing Address:	500 Independence Parkway South		
	City	La Porte	State TX ZIP 77571 ZIP + 4 9768
16. Country Mailing Information (if outside USA)		17. E-Mail Address (if applicable)	
		walker.john@cleanharbors.com	
18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)	
( 281 ) 884-5500	5507	( ) -	

## SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected below this form should be accompanied by a permit application)	
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input checked="" type="checkbox"/> Update to Regulated Entity Information	
<i>The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>	
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)	
Clean Harbors La Porte	



23. Street Address of the Regulated Entity: (No PO Boxes)	500 Independence Parkway South							
	City	La Porte	State	TX	ZIP	77571	ZIP + 4	9768
24. County	Harris							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:								
26. Nearest City						State	Nearest ZIP Code	
27. Latitude (N) In Decimal:	29.706739			28. Longitude (W) In Decimal:	-95.091301			
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
29	42	24.30	95	05	28.70			
29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)			
4953	4226		562211		493110			
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)								
Commercial TSDF, hazardous waste transfer and regulated medical waste transfer and treatment facility								
34. Mailing Address:	500 Independence Parkway South							
	City	La Porte	State	TX	ZIP	77571	ZIP + 4	9768
35. E-Mail Address:	walker.john@cleanharbors.com							
36. Telephone Number		37. Extension or Code			38. Fax Number (if applicable)			
( 281 ) 884-5500		5507			( ) -			

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form Instructions for additional guidance.

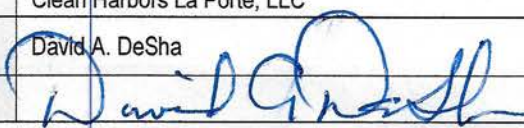
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input checked="" type="checkbox"/> Industrial Hazardous Waste
				50225
<input checked="" type="checkbox"/> Municipal Solid Waste	<input checked="" type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input checked="" type="checkbox"/> PWS
50225	PBR-Multiple			1012759
<input type="checkbox"/> Sludge	<input checked="" type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input checked="" type="checkbox"/> Used Oil
	TXR05U063			A85635
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input checked="" type="checkbox"/> Other: EPA
				TXD982290140

**SECTION IV: Preparer Information**

40. Name:	David DeSha	41. Title:	Director Environmental Compliance
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
( 423 ) 413-1218		( ) -	desha.david@cleanharbors.com

**SECTION V: Authorized Signature**

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Clean Harbors La Porte, LLC	Job Title:	Director Environmental Compliance
Name (In Print):	David A. DeSha	Phone:	( 423 ) 413- 1218
Signature:		Date:	11/26/2021





# Attachment 14



# Attachment 15

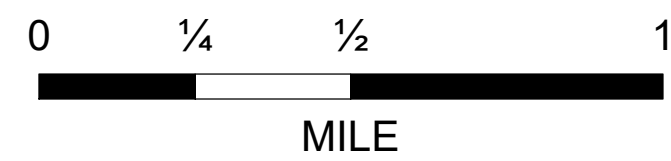
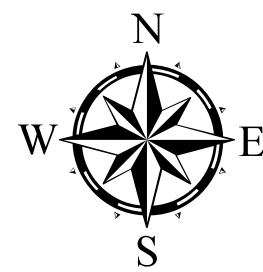


# ZONING

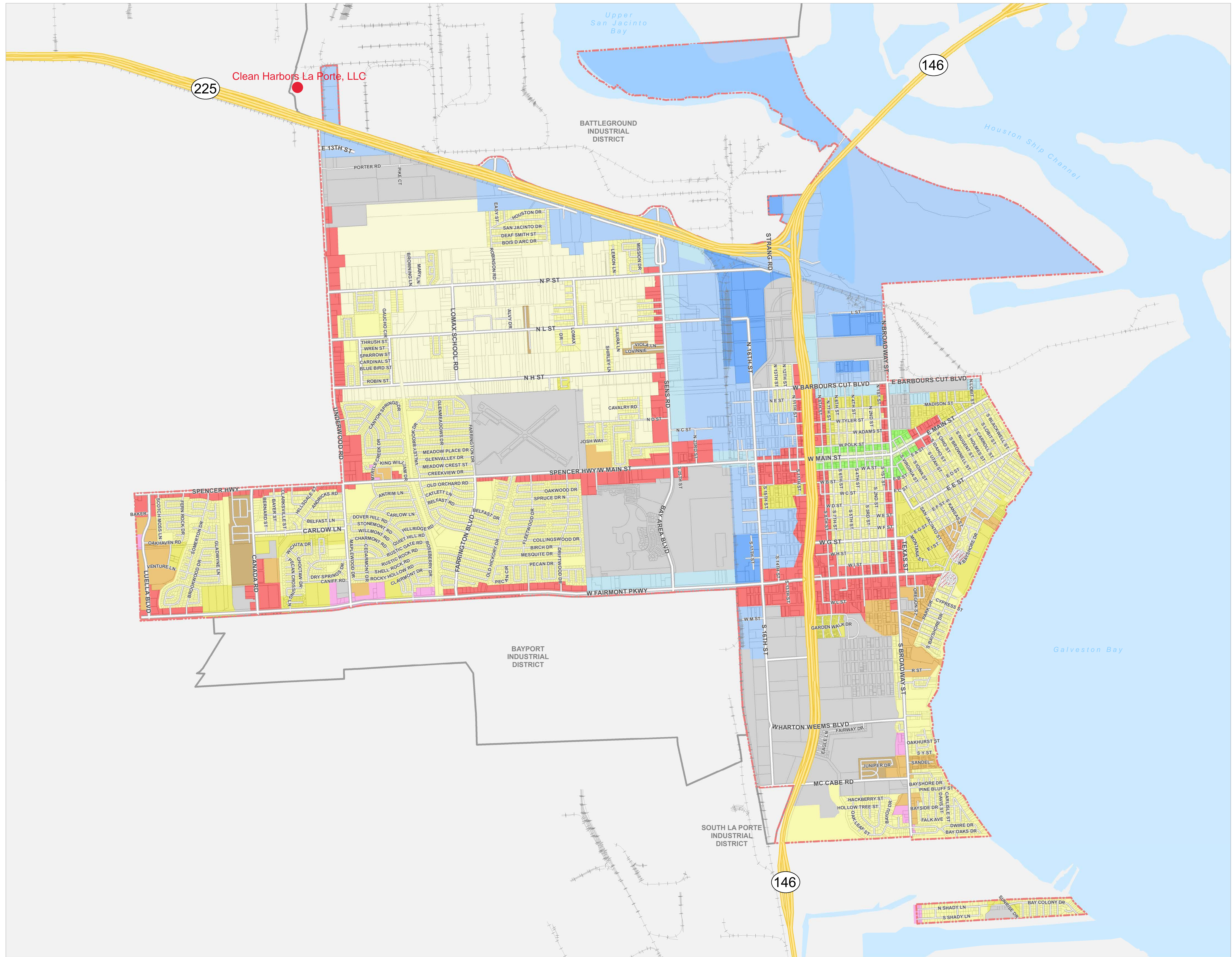
DECEMBER 2020

*The City of La Porte embraces its heritage, community values, and opportunities, while improving the quality of life for our residents.*

- LARGE LOT RESIDENTIAL
- LOW DENSITY RESIDENTIAL
- MEDIUM DENSITY RESIDENTIAL
- HIGH DENSITY RESIDENTIAL
- MANUFACTURED HOUSING
- MIXED USE
- NEIGHBORHOOD COMMERCIAL
- GENERAL COMMERCIAL
- BUSINESS INDUSTRIAL
- LIGHT INDUSTRIAL
- HEAVY INDUSTRIAL
- MAIN STREET DISTRICT
- MAIN STREET DISTRICT OVERLAY
- PLANNED UNIT DEVELOPMENT
- ROAD
- HIGHWAY
- RAILROAD
- CITY LIMIT
- INDUSTRIAL DISTRICT



*Disclaimer: This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries. Gov. C. §2501.102. The user is encouraged to independently verify all information contained in this product. The City of La Porte makes no representation or warranty as to the accuracy of this product or to its fitness for a particular purpose. The user: (1) accepts the product AS IS, WITH ALL FAULTS; (2) assumes all responsibility for the use thereof; and (3) releases the City of La Porte from any damage, loss, or liability arising from such use.*

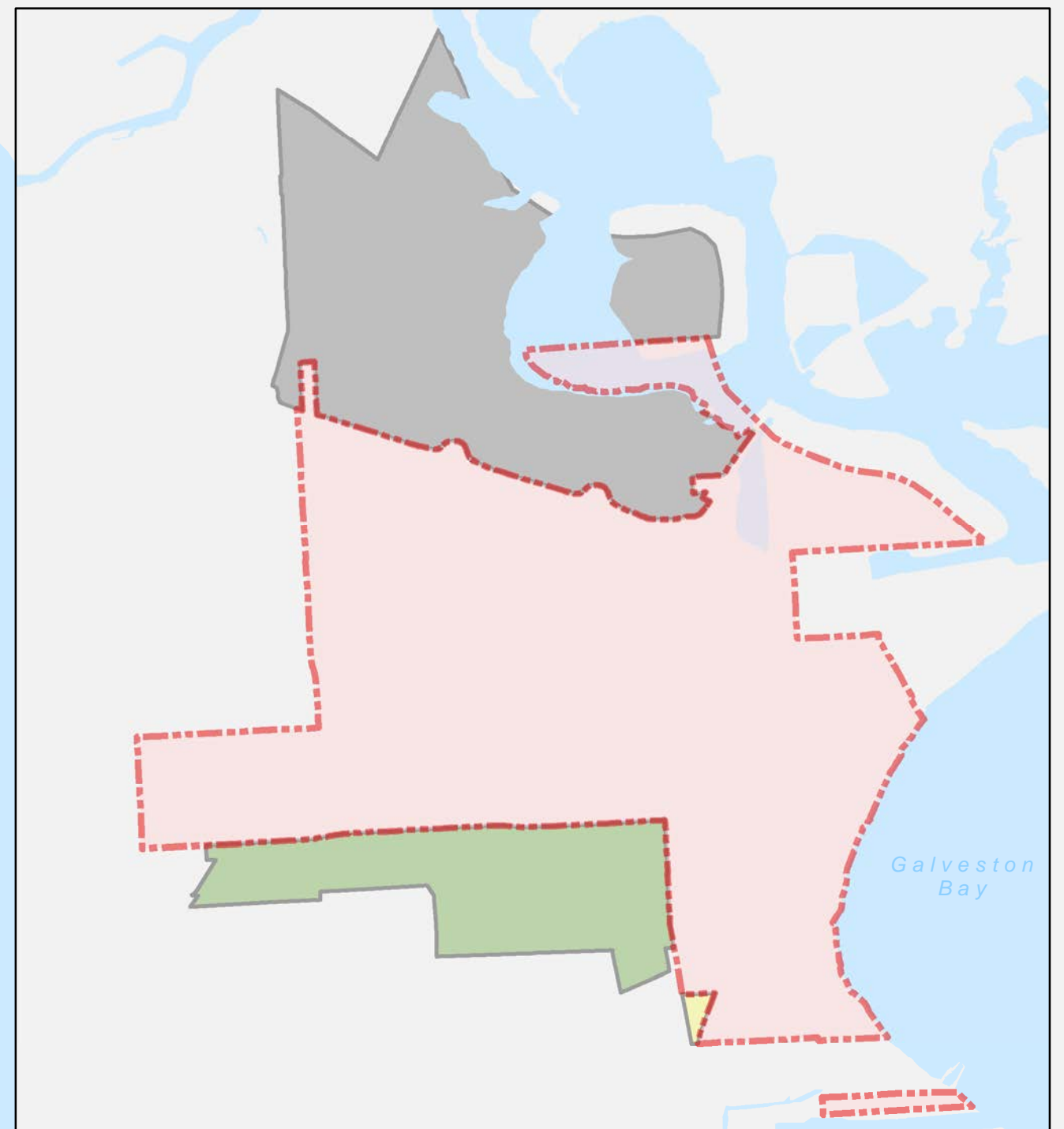










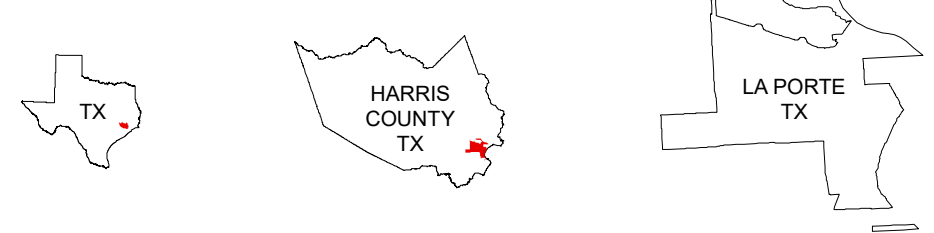
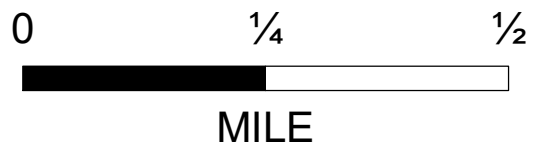
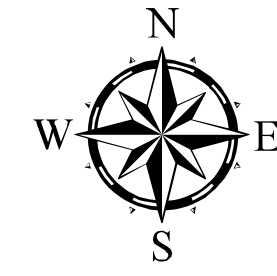


# BATTLEGROUND INDUSTRIAL DISTRICT

*The City of La Porte embraces its heritage, community values, and opportunities, while improving the quality of life for our residents.*



-  ROAD
-  HIGHWAY
-  RAILROAD
-  CITY LIMIT
-  BATTLEGROUND INDUSTRIAL DISTRICT
-  BAYPORT INDUSTRIAL DISTRICT
-  SOUTH LA PORTE INDUSTRIAL DISTRICT



*Disclaimer: This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries. Gov. C. §2501.102. The user is encouraged to independently verify all information contained in this product. The City of La Porte makes no representation or warranty as to the accuracy of this product or to its fitness for a particular purpose. The user: (1) accepts the product AS IS, WITH ALL FAULTS; (2) assumes all responsibility for the use thereof; and (3) releases the City of La Porte from any damage, loss, or liability arising from such use.*





# Attachment 16

**Clean Harbors LaPorte, LLC**  
(the "Company")

**Secretary's Certificate**

I, Michael R. McDonald, the Company's Assistant Secretary, hereby certify that pursuant to a resolution adopted by the Managers of the Company, dated October 1, 2019, and that said resolution is in effect and has not been modified that David DeSha, Director Environmental Compliance, is authorized to sign and certify, on behalf of the Company or any subsidiary, any necessary or desirable environmental documents, including, without limitation, any permit applications or amendments, consent orders, transportation related documents and environmental reports in any way related to the operation of the Company.

CERTIFIED, this 17<sup>th</sup> day of November 2021



Michael R. McDonald  
Assistant Secretary

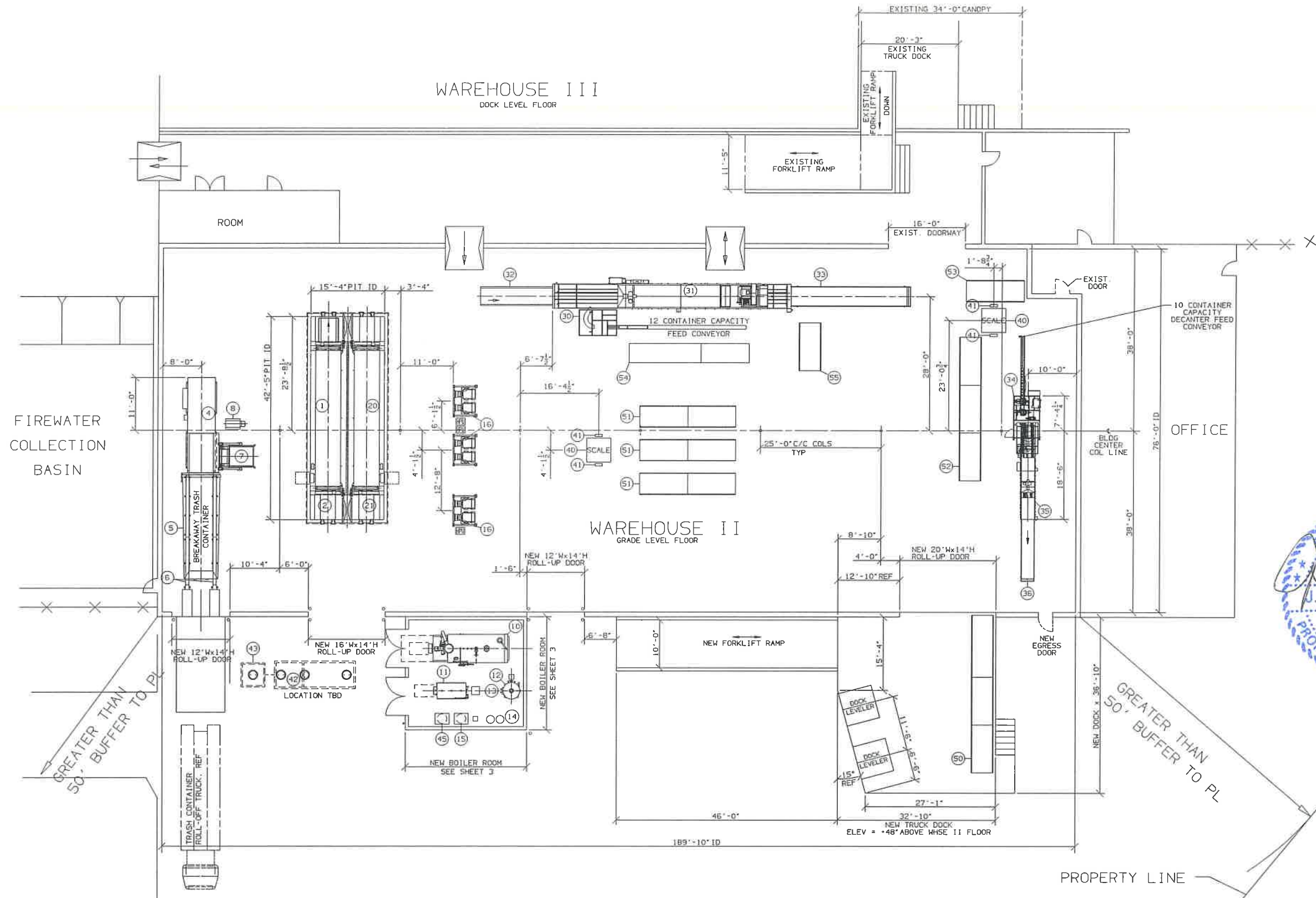


# Attachment 17





WAREHOUSE III  
DOCK LEVEL FLOOR



12/01/21

GREATER THAN  
50' BUFFER TO PL

GREATER THAN  
50' BUFFER TO PL

**THE MARK -COSTELLO CO.**

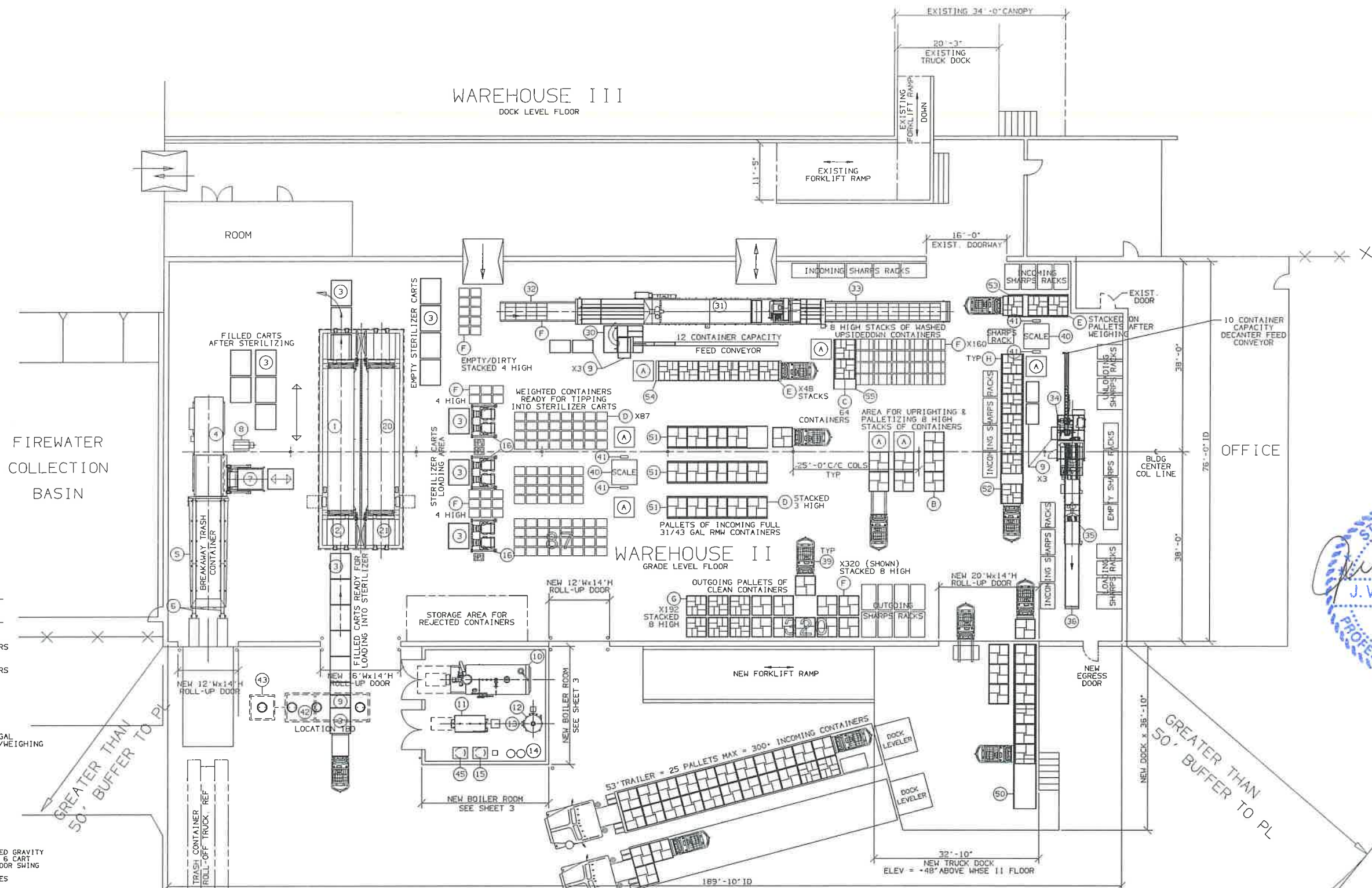
15351 TEXACO AVE. PARAMOUNT, CA. 90723 • (562) 630-7950

PROJECT  
CLEAN HARBORS  
RMW MEDICAL WASTE TREATMENT FACILITY  
LAPORTE, TX

TITLE  
MC-AS530DD GRAVITY STERILIZER  
EQUIPMENT PLAN - OPTION A6  
W/2 CWS DECANTERS & 2 UNIKON SINGLE  
LANE WASHERS

0	11/02/21	FOR APPROVAL		OS	JN	JAG	DRWN BY:	OS	DRAWING NO.	SHT
REV	DATE	DESCRIPTION		BY	CHK	APR	DATE	SCALE	D-190004-A6	2

WAREHOUSE III  
DOCK LEVEL FLOOR



LEGEND

- (A) 48" x 48" PALLET
- (B) 48" x 48" PALLET W/4 STACKS OF REHRIG 31/43G GAL CLEAN CONTAINERS NESTED 8 HIGH
- (C) 48" x 48" PALLET W/4 STACKS OF REHRIG 10/17G GAL CLEAN CONTAINERS NESTED 8 HIGH
- (D) INCOMING REHRIG 31/43G GAL FULL RMW CONTAINERS
- (E) INCOMING REHRIG 10/17G GAL FULL RMW CONTAINERS
- (F) REHRIG 31/43G GAL EMPTY RMW CONTAINERS
- (G) REHRIG 10/17G GAL EMPTY RMW CONTAINERS
- (H) 48" x 48" PALLET OF STACKED FULL REHRIG 10/17G GAL RMW, 8 CONTAINERS PER LEVEL, BEFORE SCANNING/WEIGHING

MARK-COSTELLO EQUIPMENT

- (1) MODEL ASS3000 DOUBLE DOOR PIT MOUNTED PULSED GRAVITY STERILIZER, W/PLC TOUCH SCREEN CONTROLLER, 6 CART CAPACITY, W/HYDRAULIC DOOR LOCK/UNLOCK & DOOR SWING
- (2) TWO (2) STERILIZER CART HD HYDRAULIC BRIDGES
- (3) HIGH VOLUME ALUMINUM STERILIZER CARTS (6 CARTS PER SET, 3 SETS INITIAL ORDER)
- (4) MARK-COSTELLO RJ-550 HD 5.5 CY STATIONARY COMPACTOR W/EXTENDED RAM PENETRATION
- (5) MARK-COSTELLO RJ-40-0C BREAKAWAY 40 CY OCTAGONAL ROLL-OFF COMPACTOR CONTAINER
- (6) COMPACTOR CONTAINER STEEL CHANNELS GUIDES, BY MARK-COSTELLO
- (7) MARK-COSTELLO HD HYDRAULIC STERILIZER CART-TO-COMPACTOR TIPPER FOR EMPTYING STERILIZED CONTENTS FROM FULL SIZE 50" x 62" & HALF SIZE (31" x 50") STERILIZER CARTS INTO M-C COMPACTOR
- (8) MARK-COSTELLO STERILIZER CART-TO-COMPACTOR HYDRAULIC TIPPER POWER UNIT
- (9) HALF SIZE 31" x 50" ALUMINUM STERILIZER CART FOR SHARPS, EACH W/4 SHIELDS, EIGHT (8) CART INITIAL ORDER
- (10) WRD SERIES 2150D 150HP X 150PSIG NG FIRED SCOTCH MARINE FIRE-TUBE STEAM BOILER (SPEC'D & FURNISHED BY MARK-COSTELLO)
- (11) WRD DUPLEX FW300 HEATED BOILER FEEDWATER (BFW) SYSTEM & CONDENSATE RECEIVER, W/TWO (2) BFW PUMPS (SPEC'D & FURNISHED BY MARK-COSTELLO)
- (12) BOILER BLOWDOWN TANK, W/DRAIN TEMPER VALVE & THERMOMETER (SPEC'D & FURNISHED BY MARK-COSTELLO)
- (13) BOILER CHEMICAL FEED SYSTEM
- (14) WATER SOFTENER SYSTEM W/TWIN RESIN TANKS & CONTROLLER, & BRINE TANK
- (15) 2 STAGE AIR COMPRESSOR, SHP/3PH x 165PSIG x 80 GAL VERTICAL TANK MOUNTED
- (16) (3) 31/43 GAL DUAL CONTAINER-TO-STERILIZER HD HYDRAULIC CART TIPPER

(FUTURE) MARK-COSTELLO EQUIPMENT

- (21) MODEL ASS3000 DOUBLE DOOR PIT MOUNTED PULSED GRAVITY STERILIZER, W/PLC TOUCH SCREEN CONTROLLER, 6 CART CAPACITY, W/HYDRAULIC DOOR LOCK/UNLOCK & DOOR SWING
- (22) TWO (2) STERILIZER CART HD HYDRAULIC BRIDGES
- (30) CWS AUTOMATED DECANTER FOR REHRIG 10/17 GAL SHARPS CONTAINERS
- (31) UNIKON TUNNEL WASHER FOR REHRIG 10/17/31/43 GAL RMW CONTAINERS W/CONTAINER DISCHARGE CONVEYOR OR SLIDE TABLE
- (32) WASHER 31/43 GAL CONTAINERS FEED CONVEYOR (TYPE TO BE DETERMINED)
- (33) WASHER 31/43 GAL CONTAINERS DISCHARGE CONVEYOR OR SLIDE TABLE
- (34) CWS AUTOMATED DECANTER FOR REHRIG SS/T5 SHARPS CONTAINERS
- (35) UNIKON TUNNEL WASHER FOR REHRIG SS/T5 SHARPS CONTAINERS W/CONTAINER DISCHARGE CONVEYOR OR SLIDE TABLE
- (36) WASHER 10/17 GAL CONTAINERS DISCHARGE CONVEYOR OR SLIDE TABLE

CWS EQUIPMENT

- (30) CWS AUTOMATED DECANTER FOR REHRIG 10/17 GAL SHARPS CONTAINERS
- (31) UNIKON TUNNEL WASHER FOR REHRIG 10/17/31/43 GAL RMW CONTAINERS W/CONTAINER DISCHARGE CONVEYOR OR SLIDE TABLE
- (32) WASHER 31/43 GAL CONTAINERS FEED CONVEYOR (TYPE TO BE DETERMINED)
- (33) WASHER 31/43 GAL CONTAINERS DISCHARGE CONVEYOR OR SLIDE TABLE
- (34) CWS AUTOMATED DECANTER FOR REHRIG SS/T5 SHARPS CONTAINERS
- (35) UNIKON TUNNEL WASHER FOR REHRIG SS/T5 SHARPS CONTAINERS W/CONTAINER DISCHARGE CONVEYOR OR SLIDE TABLE
- (36) WASHER 10/17 GAL CONTAINERS DISCHARGE CONVEYOR OR SLIDE TABLE

OTHERS EQUIPMENT

- (40) (2) 5'-SQUARE FLUSH-MOUNTED DIGITAL FLOOR WASTE SCALE = W/SMOOTH TOP PLATE
- (41) (2 SETS) RADIATION DETECTORS
- (42) 2,500 GAL BURIED CONCRETE GREASE/PARAFFIN INTERSEPTOR (NOT SHOWN)
- (43) ONE OR MORE BURIED CONCRETE PUMP LIFT STATION (NOT SHOWN)
- (44) 1 OR MORE FORKLIFTS
- (45) AIR COMPRESSOR FOR CWS EQUIPMENT

GRAVITY ROLLER CONVEYOR FOR 48" x 48" PALLETS

- (50) 32'-L DOCK CONVEYOR FOR INCOMING PALLETS
- (51) (3) 20'-L CONVEYORS FOR INCOMING 31/43 PALLETS
- (52) 30'-L CONVEYOR FOR INCOMING 10/17 PALLETS
- (53) 12'-L CONVEYOR FOR PALLETS OF 10/17 CONTAINERS AFTER WEIGHING
- (54) 25'-L CONVEYOR FOR PALLETS OF WEIGHED 10/17 CONTAINERS ADJACENT TO ITEM 30 DECANTER FEED CONVEYOR
- (55) 10'-L CONVEYOR FOR STACKING OUTGOING WASHED 10/17 CONTAINERS DIRECTLY INTO PALLETS



THE MARK-COSTELLO CO.

15351 TEXACO AVE. PARAMOUNT, CA. 90723 • (562) 630-7950  
PROJECT CLEAN HARBORS  
RMW MEDICAL WASTE TREATMENT FACILITY  
LAPORTE, TX

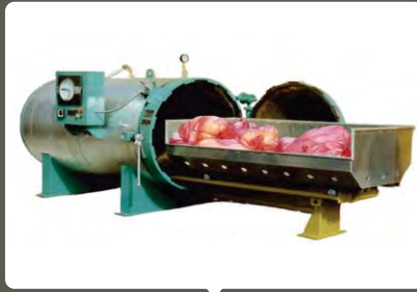
TITLE MC-ASS3000 GRAVITY STERILIZER  
FACILITY PLAN - OPTION A6  
W/2 CWS DECANTERS & 2 UNIKON SINGLE  
LANE WASHERS

0	11/02/21	FOR APPROVAL	OS	JN	JAG	DRWN BY	OS	DRAWING NO	SHT
REV	DATE	DESCRIPTION	BY	CHK	APR	SCALE	1/2" = 1'-0"	D-190004-A6	1



# Waste Sterilizers

# MC



Waste Handling Equipment  
for on site waste treatment





Celebrating 59 years of providing solutions to the most complex situations that have made us the market place leader in Waste Handling Equipment.

The Mark-Costello Co. has been building high pressure medical waste autoclave sterilizers since 1973. We have been providing quality autoclaves to hospitals, commercial medical waste processors, flight kitchens, research laboratories and agricultural companies with to date over 700 units sold.

The Mark-Costello Co. Sterilizers use the basic principle of high temperature steam under pressure in an enclosed fully automatic steam retort. The sterilizer comes completely assembled and ready for simple final connections. All chamber vessels are built in accordance with requirements of the ASME Pressure Vessel Code. All Mark-Costello sterilizers are equipped with multiple safety features necessary when operating pressure vessels. The entire control panel for our standard sterilizers is U.L. listed and labeled.

Mark-Costello systems can be manufactured to utilize a variety of loading procedures including carts, pullout drawers or carriages. All systems employ state of the art technology in controls, information processing and material handling devices to provide effortless and safe processing of waste.

**“We are committed to satisfying the needs of our clients, meeting all requirements for the execution of projects, promoting the health and safety of our workers and for the preservation of our environment. With competent staff and suppliers, under the valid legal framework and applicable international regulations, and with a continuous improvement of our processes, we benefit all interested parties.”**



### What is medical waste?

Medical waste is all waste materials generated at health care facilities, such as hospitals, clinics, physician's offices, dental practices, blood banks, and veterinary hospitals/clinics, as well as medical research facilities and laboratories. Accordingly, medical waste is "any solid waste that is generated in the diagnosis, treatment, or immunization of human beings or animals, in research pertaining thereto, or in the production or testing of biologicals."

### What is regulated garbage?

All waste material that is derived in whole or in part from fruits, vegetables, meats, or other plant or animal material and other refuse of any character whatsoever that has been associated with any such material. Garbage on or removed from a means of conveyance is regulated garbage, if, when the garbage is on or removed from the means of conveyance that has been in any port outside the US within the previous two year period. Garbage containing or associated with plant or animal materials from foreign countries is a pathway of serious concern for the dissemination of foreign plant pests and diseases and animal diseases into the US.



### What can Mark-Costello do for your organization or facility?

Combining applied engineering, our equipment, the machinery and the training provided by Mark-Costello, your operation can easily dispose of the wastes generated on a daily basis in an environmentally sound manner which is safe for human health. We help your facility meet local regulations, increase efficiency in waste management, and reduce cost. From design and engineering to installation and maintenance you can rely on us.

[www.mark-costello.com](http://www.mark-costello.com)

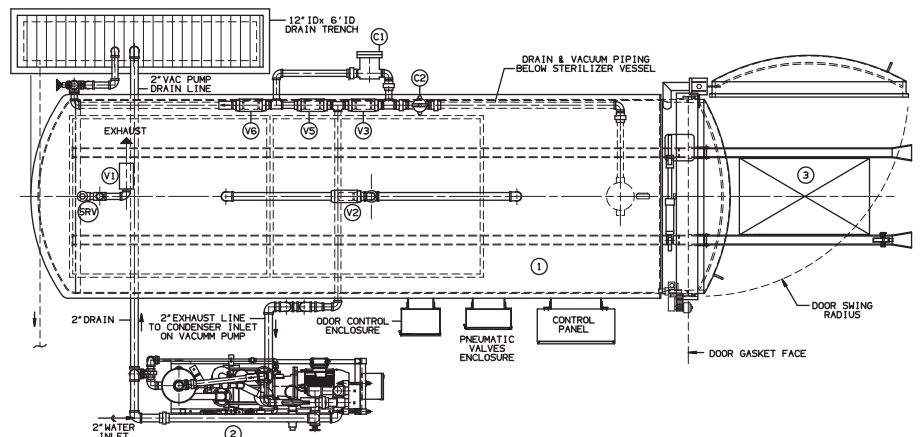
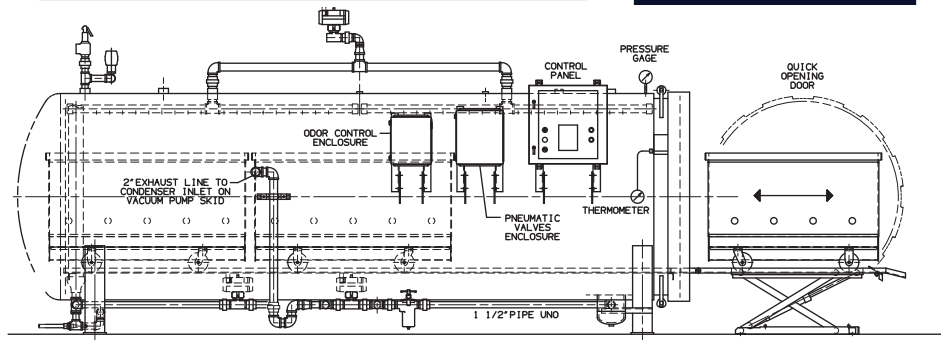
## Why Sterilize?

Incinerators emit toxic air pollutants. A waste incinerator releases into the air a wide variety of pollutants including dioxins and furans, metals (such as lead, mercury and cadmium), particulate matter, acid gases (hydrogen chloride and sulfur dioxide), carbon monoxide and nitrogen oxides. These emissions have serious adverse consequences on worker safety, public health and the environment.



### Advantages of The Mark-Costello System:

1. SAFE, ECONOMICAL, RELIABLE AND DURABLE.
2. LARGE RANGE OF CAPACITIES (THROUGHPUTS).
3. PATENTED DOOR DESIGN.
4. QUADRUPLE STERILIZER DOOR SAFETY INTERLOCK.
5. PLC DIGITAL TOUCH SCREEN CONTROLLER.
6. EXCLUSIVE MC CONDENSATE ASSEMBLY.
7. FRONT MOUNTED EASILY ACCESSIBLE SUMP DRAIN.
8. OPTIONAL STAINLESS STEEL VESSELS AVAILABLE.
9. TOTAL THERMAL INSULATION.
10. GRAVITY OR VACUUM SYSTEMS AVAILABLE.
11. LOW MAINTENANCE AND OPERATIONAL EXPENSE.
12. NO WASTE PRE-TREATMENT REQUIRED
13. EXCLUSIVE MC VAPOR MIST ODOR CONTROL SYSTEM.
14. OVER 700 UNITS SOLD!





# Regulated Medical Waste Regulated Garbage

## Safe and Reliable Autoclaves



### Why invest in our system?

- ☑ The most reliable system on the market.
- ☑ Easy operation and maintenance.
- ☑ Our basic model is very competitively priced.
- ☑ We have had units operating 25 + years.
- ☑ Manufactured to meet clients needs.
- ☑ Many standard sized units-to meet various throughputs.
- ☑ Complete systems with shredders and compactors.
- ☑ MC Vapor Mist-Proven Odor Control Technology.
- ☑ Unlimited possibilities for plant layout and design.



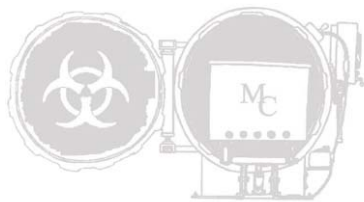
## How it works-

A sterilizer (autoclave) consists of a steel chamber sealed by an access door. Inside, the variable pressure, time and temperature are specifically administered in order to eliminate the microorganisms that cause and spread disease. Mark-Costello has been manufacturing autoclaves since 1973.

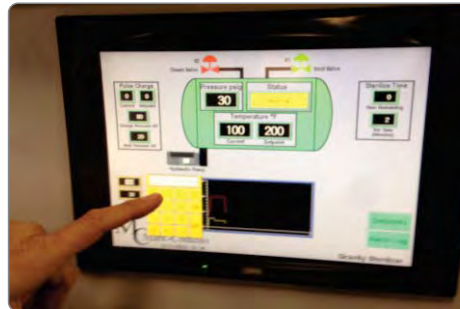
High pressure steam is introduced into the chamber, which is designed to withstand high pressures. Because air is an effective insulator, elimination of the air inside the chamber is important to ensure the penetration of the steam into the wastes. This is achieved by gravity displacement or by a vacuum system. A sterilizer operated by gravity benefits from the fact that steam is lighter than air; the steam is injected under pressure into the chamber, forcing the air downwards and outwards through a steam trap at the bottom of the vessel. Our autoclave is designed to use steam as the sterilizing agent. Our sterilizers that employ our vacuum system mechanically draws or "pulls" the air from the chamber prior to steam entrance via a liquid ring vacuum pump.

Under pressure, the pathogens are **destroyed within a few minutes** after contacting the energy transmitted through the steam. Once the waste is sterile, it can be treated as normal solid waste (municipal waste).

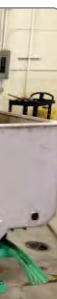
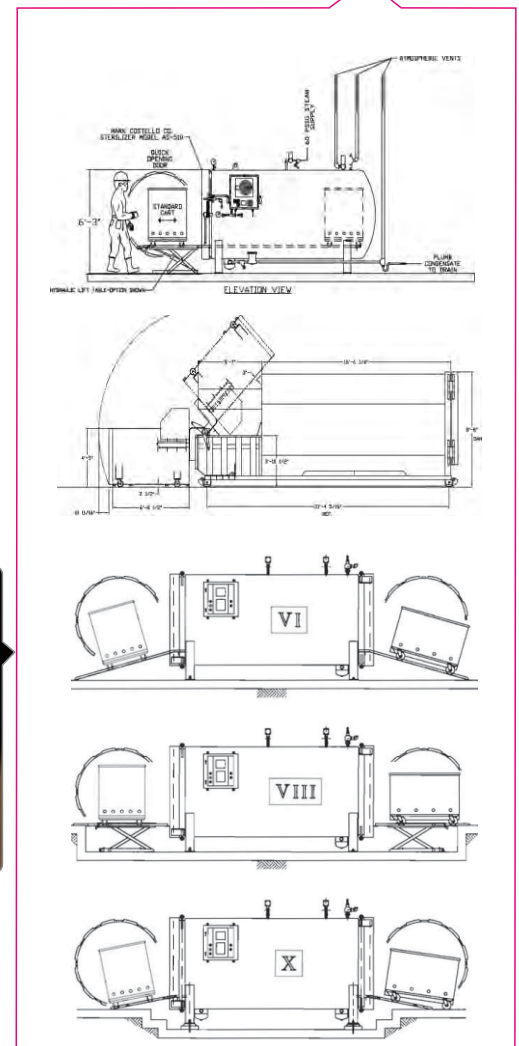
Together with medical service facilities, the list of applications includes international airports and ports, pharma companies, laboratories and regional waste commercial processing centers.



MARK-COSTELLO uses the basic principle of **steam under great pressure** in an automated retort system. The autoclave comes completely assembled and ready for the final connection. All pressure chambers are constructed in accordance with ASME standards (the highest in the world). All our autoclaves are equipped with



multiple safety features which are necessary when operating equipment under pressure.





## System Components

# Regulated Medical Waste Regulated Garbage



The **performance** of our equipment and throughput capacity are constantly tested: the **efficiency** of our systems exceeds all expectations as well as the expected ROI. With all things being equal the simplest solution tends to be the right one.



Select the model appropriate for your needs in accordance with the volume of wastes that will be treated at your facility: you will have a clean and streamlined operation.

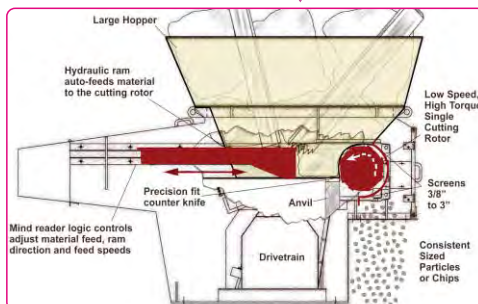


### Ancillary Equipment:

- ✂ Compactors
- ✂ Cart Dumpers
- ✂ Shredders
- ✂ Conveyors
- ✂ Boilers
- ✂ Cart Washers
- ✂ Autoclave Carts
- ✂ Cart Liners



TURNKEY SYSTEMS AVAILABLE





.Mark-Costello provides a heavy duty cart dumper to transfer treated waste from sterilizer cart to waste compactor. Hydraulic cart dumpers can be stationary mounted adjacent or integral to the compactor. Depending on the sterilizer model and cart size-either a stationary or self-contained compactor will be utilized.

## Effective Process

### Medical Waste:

Mark-Costello provides tailored solutions for hospitals and medical centers in accordance with our client's needs. We have the know-how and experience for the sterilization of medical wastes in a safe cost effective and efficient manner.

### Regulated Garbage:

We apply our technology at International Airports and Ports for their regulated garbage. Sterilization and disposal of food and other wastes from international flights, as well as other waste which might represent a vector for disease.

**At laboratories:** Our technology is applied in the sterilization and treatment of micro-biological wastes.

**.At treatment centers:** Our equipment is a productive and profitable way for waste management and treatment companies to dispose of dangerous waste in a safe and efficient manner.

**Always cost-effective:** Is cost of acquisition the most important factor when deciding on which equipment to buy? **Not necessarily**, but our autoclave systems are the best and **least expensive** .

## Flexibility in Design

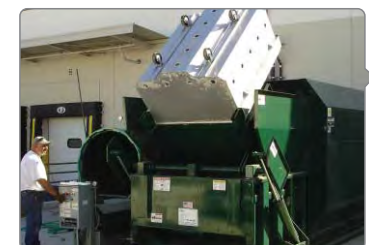
How much technology do you need or want? Mark-Costello allows you to choose the level of sophistication that is best suited for your needs. We offer a **basic system** which does not require any knowledge in computers, with a digital printer that registers the time and temperature of the cycle. However, for those who prefer high capacity digital platforms, we offer an **advanced system** which is a completely computerized PLC touch screen controller-with remote monitoring and trouble shooting capability.



- Design
- Engineering
- Equipment Layout
- Utility Interface
- Equipment Installation
- Start Up
- Employee Training

## Track Record?

How long will your sterilizer last? Many of the systems that we have sold and installed have been in continuous operation for **over 20 years**. **In the waste management world it doesn't get better than that.** When comparing products and companies-remember with The Mark-Costello Co. you'll be working with a company that has been around for going on sixty years; aka..... **a safe bet.**







*Design/Engineering/Equipment Layout/Employee Training*

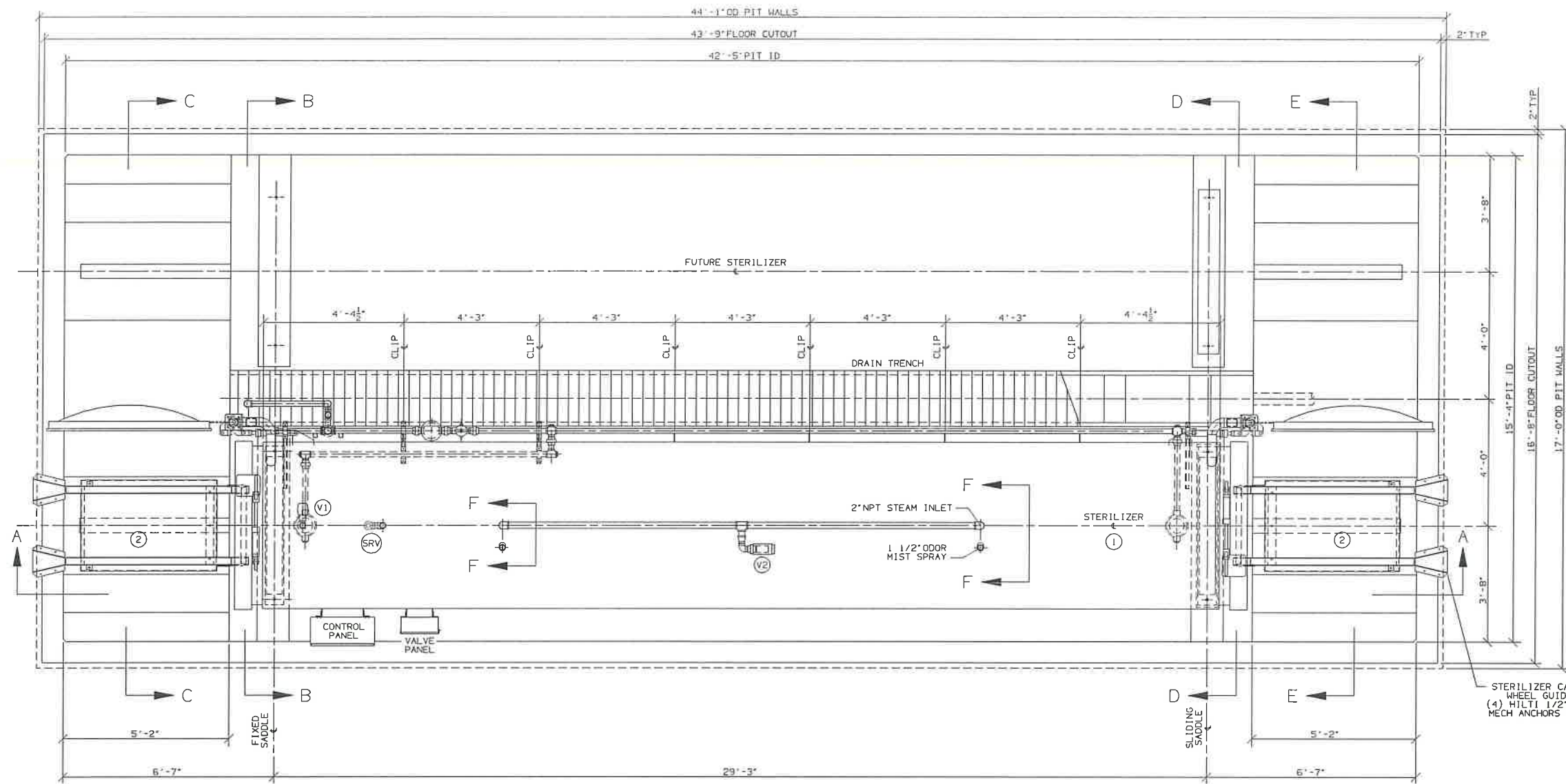


Telephone: 562 630-7950  
Fax: 562 630-7960  
15351 Texaco Ave.  
Paramount, Ca.

[www.mark-costello.com](http://www.mark-costello.com)



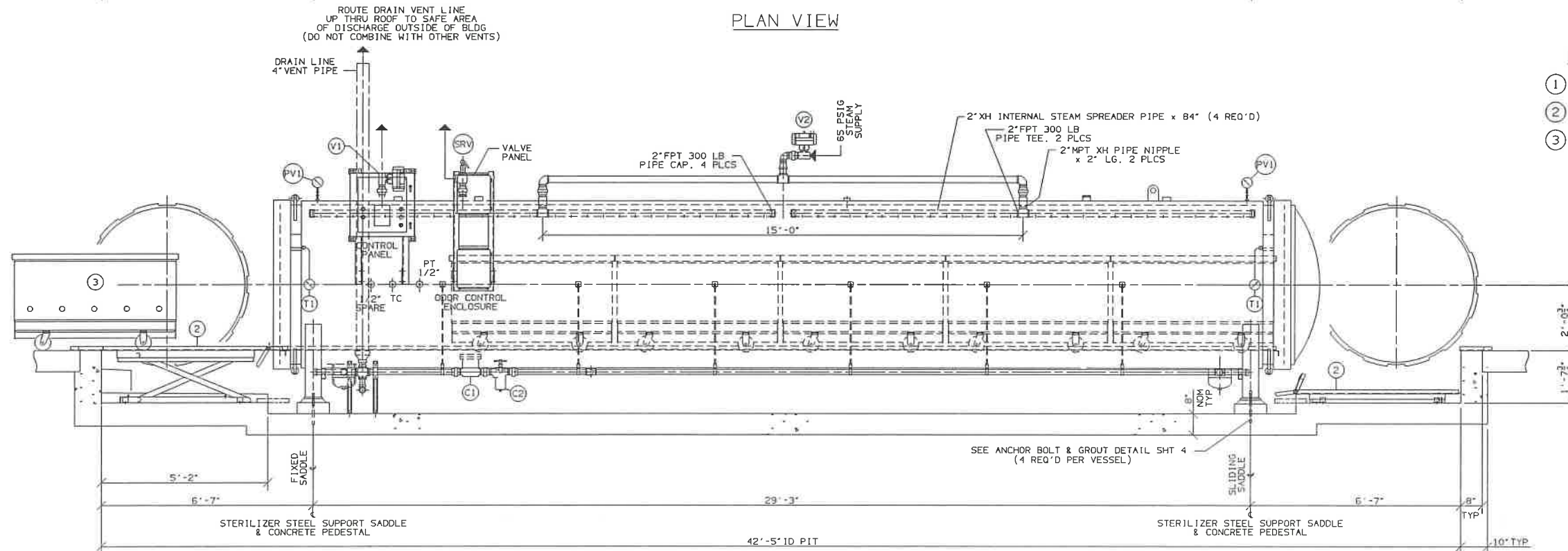
**MC** THE MARK COSTELLO CO.  
Systems & Solutions Since 1956



PLAN VIEW

ROUTE DRAIN VENT LINE UP THRU ROOF TO SAFE AREA OF DISCHARGE OUTSIDE OF BLDG (DO NOT COMBINE WITH OTHER VENTS)

STERILIZER CART STATIONARY WHEEL GUIDES (4 PLCS)  
(4) HILTI 1/2"x3 3/4"KB3 HDG MECH ANCHORS PER EACH FLARE



SECTION A-A

MARK-COSTELLO EQUIPMENT

- ① MODEL AS530-DD DOUBLE DOOR PIT MOUNTED GRAVITY STERILIZER, 110V/1PH/60Hz W/PLC TOUCH SCREEN DUAL MODE CONTROLLER, 6 CARTS CAPACITY W/HYDRAULIC DOORS LOCK/UNLOCK & SWING W/DRAIN TEMPER VALVE
- ② HYDRAULIC STERILIZER CART BRIDGES
- ③ HIGH VOLUME ALUMINUM STERILIZER CART



AS530DD STERILIZER WITH LEFT HAND CONTROL PANEL

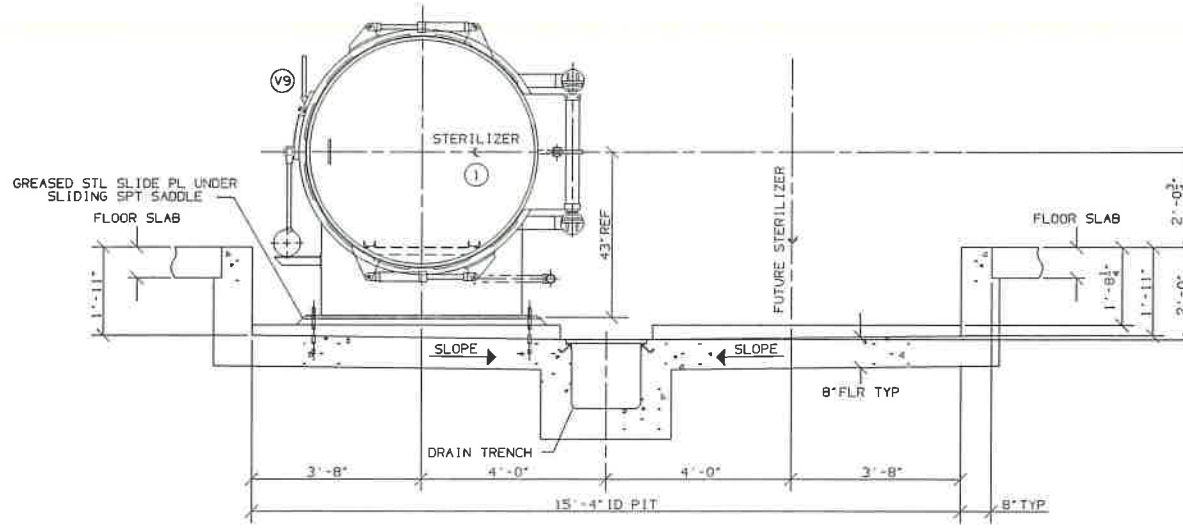
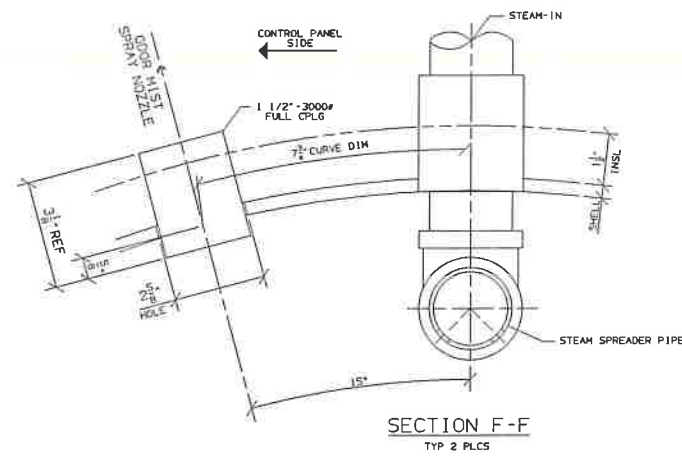
**THE MARK-COSTELLO CO.**  
15351 TEXACO AVE. PARAMOUNT, CA. 90723 • (562) 630-7950

CUSTOMER CLEAN HARBORS  
RMW MEDICAL WASTE TREATMENT FACILITY  
LAPORTE, TX

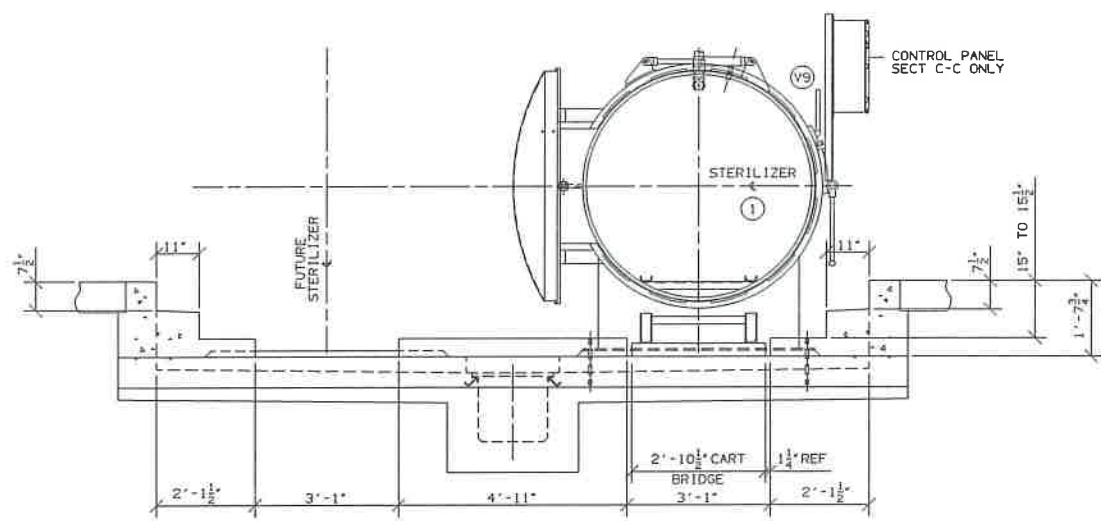
TITLE DUAL AS530DD GRAVITY STERILIZER & PIT  
PLAN & ELEVATION

0	10/29/21	FOR CONSTRUCTION	OS	JAG	JAG	DRWN BY: O.SILVA	DRAWING NO:	SHT
REV	DATE	DESCRIPTION	BY	CHK	APR	SCALE: 1/2"=1'-0"	D-190004	1



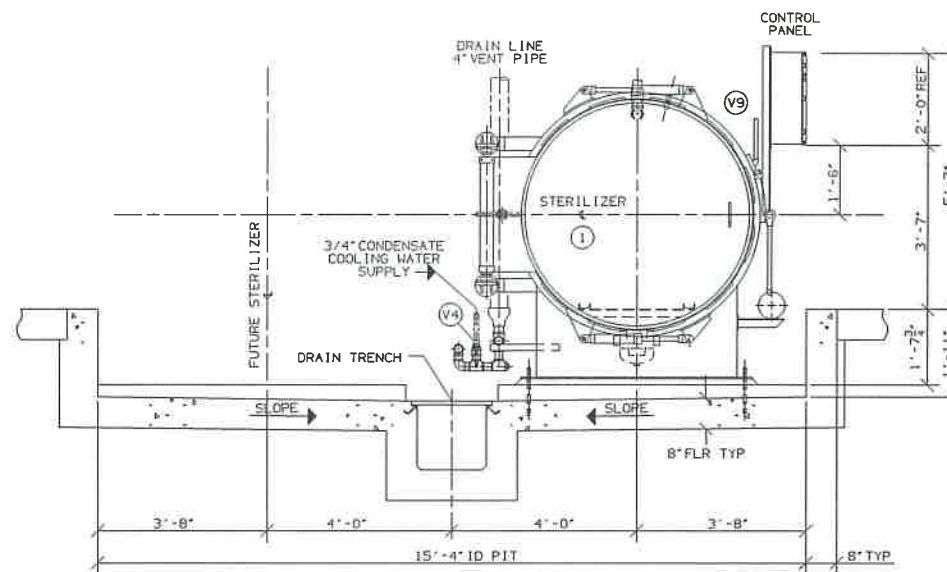


SECTION D-D  
DOOR SHOWN AT CLOSED POSITION  
PIPING NOT SHOWN



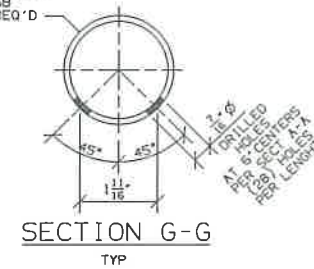
SECTION C-C  
DOOR SHOWN AT OPENED POSITION

SECTION E-E  
OPPOSITE HAND W/O CONTROL PANEL  
DOOR SHOWN AT OPENED POSITION  
PIPING NOT SHOWN



SECTION B-B  
DOOR SHOWN AT CLOSED POSITION  
PIPING NOT SHOWN

2" XH INTERNAL STEAM SPREADER  
PIPE, A53B OR A106B  
x 84" LONG, FOUR (4) REQ'D



**THE MARK - COSTELLO CO.**  
15351 TEXACO AVE. PARAMOUNT, CA. 90723 · (562) 630-7950

CUSTOMER: CLEAN HARBORS  
RMW MEDICAL WASTE TREATMENT FACILITY  
LAPORTE, TX

TITLE: DUAL AS530DD GRAVITY STERILIZER & PIT  
SECTIONS & DETAILS

0	10/29/21	FOR CONSTRUCTION	OS	JAG	JAG	DRWN BY:	O. SILVA	DRAWING NO.	D-190004	SHT	2
REV	DATE	DESCRIPTION	BY	CHK	APR	SCALE:	1/2" = 1'-0"				



June 24, 2021

Clean Harbors  
Mr. Brandon Beaver  
P.O. Box 9149  
42 Longwater Dr.  
Norwell, MA 02061-9149

Dear Mr. Beaver,

Please see the updated proposal for the UN-400 Twin container washing system for the Rehrig Healthcare SS-TS medical waste containers including the recirculated rinse system that will lower water usage and allow for easier integration to the lower pressure steam supply. For 50 years, UNIKON has offered innovative customized solutions for cleaning and drying of pallets, crates, bins, trolleys, chocolate molds, and much more.

**The strengths of the UNIKON machines and systems:**

- Thorough cleaning thanks to an efficient high-pressure spraying system.
- Fast (hot or cold) drying process by a uniquely constructed air system and/or centrifugal force.
- Compact design, energy efficient, easy to use and custom fit into your production process.
- Top of the line components ensure continuity and availability worldwide.
- Simplicity, short term payback and low maintenance costs make our machines a good long-term investment.

After having installed our UNIKON machine, our excellent equipment and service will guarantee your satisfaction. If you have any questions or comments after reviewing this quotation, please call or email me.

Best regards,

A handwritten signature in black ink that reads "Todd Rodewald". The signature is written in a cursive style and is placed on a light blue rectangular background.

Todd Rodewald  
Custom Wash Solutions, LLC  
Mobile: 615-513-0560  
Email: todd@customwashesolutions.com



**Product Specifications:**

<b>Product</b>	<b>Width</b>	<b>Length</b>	<b>Height</b>
Container TS	190	380	500
Container SS	190	380	350



Inserts

190

384



A-Solutions 2 gallon

146

330

289



A-Solutions lids. To be washed in a mesh basket



A-Solutions 3 Gallon

146

330

441

Capacity: 100-300 products/hour, depending on pollution and expected drying result  
Pollution: medical waste residue





**Price Specifications: Unikon® UN-400 Twin container washing machine for Rehrig TS-SS-Inserts containers & A-Solutions 2/3 Gallon**

**Infeed**

- Infeed transport 2500 mm with drain to filter
- Vapor extraction hood 500 mm (incl. ventilator) above infeed transport

**Main-wash zone 2000 mm**

- Higher tunnel passage
- SST Wash pump 15 kW
- 4x spray tubes at the bottom of the wash tunnel
- Pivoting system, bottom spray tubes
- 3x spray tubes at the center, left and right side of the wash tunnel
- 4x spray tubes at the top of the wash tunnel
- Pivoting system, top spray tubes
- Separate pivo motor
- Clip-on V-jet nozzles, stainless steel
- SST Caps on spray tubes
- Heat-resistant seal for temperatures above 60°C
- Dosage pump controlled by water flow meter for detergent main-wash
- Steam injection in main wash tank
- Thermostat with digital readout main-wash
- Filter tray (easy to clean during wash process)
- Double SST Transport chains 8mm with catches
- Powered transport
- Variable transport speed
- Winch for easy hold-down adjustment

**Neutral zone 500 mm**

**Circulation rinse 1000 mm**

- Circulation rinse 1000 mm (saves 30-50% rinse water, energy, and chemicals)
- Clip-on V-jet nozzles, stainless steel
- SST curtains
- SST Caps on spray tubes
- SST Wash pump 1.1kW
- Steam injection in rinse tank
- Thermostat with digital readout circulation rinse
- Filter tray

**Rinse zone 500 mm**

- NS (Rinse zone)



- SST Rinse frame
- SST rinse nozzles
- SST curtains
- Dosage pump for detergent and rinse or disinfection liquid
- Heat exchanger for rinse water (connection to steam)
- Thermostat with digital readout rinse

#### **Infeed blower zone 1000 mm (open)**

- Vapor extraction hood (incl. ventilator) above outfeed transport
- Neutral open zone 1000 mm

#### **Blower zone 2000 mm**

- SST curtains
- Double ventilator 7.5 kW
- Double air knife (tube) with adjustable air knives
- Double ventilator 7.5 kW
- Double air knife (tube) with adjustable air knives

#### **Out-feed**

- Out-feed slide table 4000 mm

#### **General info**

- 2x Mesh baskets to wash A-Sol lids
- Machine stand-alone
- Machine manufactured from SST 304 K320
- 2 Track washing
- Electrical panel on machine
- Allen Bradley electrical components
- Control panel language: English
- Control panel side: right, seen from machine in-feed
- Electrical connection: right, seen from machine in-feed
- Water connection: left, seen from machine in-feed
- Steam connection: left, seen from machine in-feed
- Emergency stop buttons placed according to machine guidelines
- Machine on adjustable feet
- Machine manual as hardcopy
- Machine manual digital in English
- Designed for integration with automated decanter system for SS/TS containers

#### **Delivery**

- Delivery time, Complete by week 46 with order by week of June 28
- Transport organized by customer (ExWorks Barneveld, Holland) – Transport time dependent on shipping companies



- Packaging: Machine wrapped in plastic
- Placement and utility connections of the machine by customer
- CWS to provide up to 3 days of on-site final adjustments and training

**Total price:** **\$ 216,135.00**

Packaging (Dependent on shipping method): \$ TBD

Estimated Shipping (From Netherlands to TX): \$ TBD



### **Machine dimension**

Length:	13500 mm
Width:	1350 mm
Height:	1820 mm

### **Connection values**

Voltage:	480 V, 3 P, N, PE - 60 Hz
Control Voltage:	24 VDC
Electrical Power:	50.00 kW / 83.00 A
Fuse:	100.00 A, slow Fuse
Recommended electric cable:	Depending on cable length and environment temperature
Delivered water temp:	<50 °C
Water connection:	1/2" hose connection
Drain:	2"
Heating main wash:	1 x 1" >1 - <3 bar steam
Heating circulation rinse:	1 x 1" >1 - <3 bar steam
Heating rinse:	1 x 1" >1 - <3 bar steam



## AGREEMENT AND TERMS OF DELIVERY

**Prices:** USD (\$) (the “Purchase Price”)  
**Delivery:** Ex works Barneveld, Netherlands (incoterms 2000)  
Unless otherwise noted, machine packed for road transport.  
**Price validity:** 30 days after offering date and +/- 2% USD to Euro exchange variance from date of proposal.  
**Payment:** Payment of the Purchase Price shall be made in two installments, as follows: (i) a 40% non-refundable payment (the “Down Payment”) is due simultaneously with written order confirmation. Commencement of work and project timelines do not start until the Down Payment is received; and (ii) the balance of the Purchase Price (60%) (the “Balance Payment”) shall be due 5 working days before the machine is complete (the “Balance Payment Date”). CWS will notify Customer of the completion date and the Balance Payment Date. The machine will not be shipped until the Balance Payment is received. Any delays in receipt of the Balance Payment will result in delays in shipping, which will be solely at Customer’s expense. Customer is responsible for all local sales tax and duties.

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(e). The technical specifications/options provided by CWS to Customer (previously or simultaneously herewith) are incorporated herein by reference and are hereby accepted by Customer.



June 24, 2021

Clean Harbors  
Mr. Brandon Beaver  
P.O. Box 9149  
42 Longwater Dr.  
Norwell, MA 02061-9149

Dear Mr. Beaver,

Please see the proposal for the UNIKON medical waste container washing system for the Rehrig Healthcare 10, 17, 31, 43-gallon medical waste containers. This proposal includes the infeed and outfeed conveyors to match the latest facility layout. For 50 years, UNIKON has offered innovative customized solutions for cleaning and drying of pallets, crates, bins, trolleys, chocolate molds, and much more.

**The strengths of the UNIKON machines and systems:**

- Thorough cleaning thanks to an efficient high-pressure spraying system.
- Fast (hot or cold) drying process by a uniquely constructed air system and/or centrifugal force.
- Compact design, energy efficient, easy to use and custom fit into your production process.
- Top of the line components ensure continuity and availability worldwide.
- Simplicity, short term payback and low maintenance costs make our machines a good long-term investment.

After having installed our UNIKON machine, our excellent equipment and service will guarantee your satisfaction. If you have any questions or comments after reviewing this quotation, please call or email me.

Best regards,

A handwritten signature in black ink that reads "Todd Rodewald". The signature is written in a cursive style and is placed on a light blue rectangular background.

Todd Rodewald  
Custom Wash Solutions, LLC  
Mobile: 615-513-0560  
Email: todd@customwashesolutions.com



**Product Specifications:**

<b>Product</b>	<b>Width</b>	<b>Length</b>	<b>Height</b>
Rehrig 10 Gallon (open width 640mm)	318	508	390



Rehrig 17 Gallon (open width 640 mm)	318	508	660
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Rehrig 31 Gallon (open width 1000 mm)	508	635	541
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Rehrig 43 Gallon (open width 1000 mm)	508	635	749
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Capacity: 100-300 products/hour, depending on pollution, size of product and expected drying result.

Pollution: medical waste residue



**Price Specifications: Unikon® UN1000 Custom made container washing machine for Rehrig Healthcare 10-17-31-43 Gallon containers**

**Infeed**

- Gravity roller conveyor 3000 mm (RB-3000) for 31 and 43 g containers loaded from floor
- Queue powered infeed (for queue infeed of 31-43 g containers to feed waster infeed with traffic control)
- In-feed transport 3000 mm with drain to filter
- Vapor extraction hood 500 mm (incl. ventilator) above infeed transport

**Neutral zone 500 mm**

- Neutral tunnel zone 500 mm

**Main wash zone 2500**

- Main-wash zone 2500 mm
- SST Wash pump 15 kW
- Heat-resistant seal for temperatures above 60°C
- 5x Spray tubes at the bottom of the wash tunnel
- Bottom spray tubes adapted to the different products to be washed
- Pivoting system, bottom spray tubes
- 2x Spray tubes at the left and right sides of the wash tunnel
- Pivoting system, side spray tubes
- 5x Spray tubes at the top of the wash tunnel
- Pivoting system, top spray tubes
- Separate SEW pivo motor
- Clip-on V-jet nozzles, stainless steel
- SST caps on spray tubes
- 2x SST swing doors between zones
- Dosage pump controlled by water flow meter for detergent main wash
- Steam injection in wash tank
- Thermostat with digital readout main wash
- Filter tray (easy to clean during wash process)
- 2x SST transport chains 8mm with catches
- Variable transport speed
- Special fixed side guides to wash all products interchangeably

**Neutral zone 1000 mm**

- Neutral tunnel zone 1000 mm

**Circulation rinse 1000 mm**





- Circulation rinse 1000 mm (saves 30-50% rinse water, energy and chemicals)
- Clip-on V-jet nozzles, stainless steel
- SST Caps on spray tubes
- SST Circulation pump 0.75 kW
- Steam injection in rinse tank
- Thermostat with digital readout circulation rinse
- Filter Tray

### **Rinse zone 500**

- NS (Rinse zone)
- SST rinse frame
- SST rinse nozzles
- SST swing doors between zones
- Heat exchanger for rinse water (connection to steam)
- Thermostat with digital readout rinse
- Dosage pump for detergent and rinse or disinfection liquid

### **Infeed blower zone 1000 mm (open)**

- Neutral open zone 1000 mm
- Vapor extraction (incl. ventilator) above infeed blower zone

### **Blower zone 2000**

- Blower zone 2000 mm
- 2x SST swing doors between zones
- 2x Ventilator 7.5 kW for high-capacity air knives (tubes)
- Air knife (tube) with adjustable air knives and 2 ventilators for increased capacity/pressure
- 2x Ventilator 7.5 kW for high-capacity air knives (tubes)
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### **Outfeed**

- Outfeed transport 1000 mm with drain to filter
- Out-feed accumulation slide table 7600 mm

### **General info**

- Machine manufactured from SST 304 K320
- Machine stand-alone
- 1 track washing
- Electrical panel on machine
- Allen Bradley electrical components



- Control panel language: English
- Control panel side: right, seen from machine in-feed
- Electrical connection: right, seen from machine in-feed
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### **Delivery**

- Delivery time, Complete by week 46 with order by week of June 28
- Transport organized by customer (ExWorks Barneveld, Holland) – Transport time dependent on shipping companies
- Packaging: Machine wrapped in plastic
- Placement and utility connections of the machine by customer
- CWS to provide 2 days of on-site final adjustments and training

**Total price:** **\$262,825.00**

Packaging (dependent on shipping method/final config): \$ TBD

Transport (dependent on final configuration): \$ TBD

### **Remark:**

Containers will not be 100% dry after blower. Most of the water will be blown off.



### **Machine dimension**

Length:	25600 mm
Width:	1450 mm
Height:	2100 mm

### **Connection values**

Voltage:	480 V, 3 P, N, PE - 60 Hz
Control Voltage:	24 VDC
Electrical Power:	50.00 kW / 86.00 A
Fuse:	100.00 A, slow Fuse
Recommended electric cable:	Depending on cable length and environment temperature
Delivered water temp:	>12 °C
Water connection:	1/2" hose connection
Drain:	2"
Heating main wash:	1 x 1" >1 - <3 bar steam
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Todd Rodewald  
Custom Wash Solutions, LLC  
Mobile: 615-513-0560  
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**Total price:** **\$262,825.00**

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June 24, 2021

Clean Harbors  
Mr. Brandon Beaver  
P.O. Box 9149  
42 Longwater Dr.  
Norwell, MA 02061-9149

Dear Mr. Beaver,

Please see the updated proposal for the Rehrig Healthcare SS/TS Sharps container automated decanting system. This machine includes a full guarding package safety. The design includes an automatic infeed, robotic/pneumatic opening process, and automatic loading to the UNIKON washer to eliminate any operator interaction with opening the containers. This update includes extending the infeed conveyor to be able to handle 10 containers at a time.

Best regards,

A handwritten signature in black ink that reads "Todd Rodewald". The signature is written in a cursive style and is placed on a light purple rectangular background.

Todd Rodewald  
Custom Wash Solutions, LLC  
Mobile: 615-513-0560  
Email: [todd@customwashesolutions.com](mailto:todd@customwashesolutions.com)



**Product Specifications (approx.):**

<b>Product</b>	<b>Width</b>	<b>Length</b>	<b>Height</b>
Rehrig Healthcare SS	7"	15"	14"
Rehrig Healthcare TS	7"	15"	20"

**Capacity:** 100-220 products per hour

**Summary:** CWS will supply the design and build of a machine to automatically open, remove the insert, and empty the above listed medical waste containers of (2) different configurations and load onto the washer infeed conveyor.

**Scope:** The following are part of the scope of the project:

- Automatically open and remove insert from containers
- Automatically dispose of the waste and container lid into customer supplied separate bins
- Automatically load and connect to washing machine
- Handle the 2 sizes/styles listed above



## Med-Waste Auto-Decanter

### **Equipment Description**

Equipment will have an infeed conveyor with traffic control to singulate the medical waste containers and a lid opener to prepare the containers for the robot station. The system includes an automatic dumping station and a place for a waste bin (customer supplied), and a six-axis robot – which will remove and handle the inner container insert and also will handle the empty containers to feed them into the washer's infeed conveyor. The cell infeed conveyor can handle up to 10 containers (mixed) at a time.

### **Equipment sequence:**

1. Operator loads the infeed conveyor (Up to 10 containers at once).
2. Press cycle start.
3. Machine transports medical waste container into the lid opener station.
4. Machine transports medical waste container with outside lid open into the dumping station.
5. Machine lifts, locates and clamps container for robot.
6. Robot removes insert and places it onto washing machine's conveyor.
7. Machine rotates container and empties it, and unclamps.
8. Robot picks and places empty container in the correct orientation onto washing machine's infeed conveyor.
9. Machine is ready for the next cycle (it will automatically start if machine is fed and all machine conditions are ok including the washing machine).

### **List of Major Components**

The following is a list of the major components and assemblies:

- Indexing conveyor (infeed)
- Rotary actuator
- Yaskawa GP7 6-axis robot
- Traffic control system (infeed)
- Automatic outfeed to washing machine (placing parts onto washer infeed conveyor)
- Guarding
- Control System to include
  - PLC & HMI
  - Safety controls
  - Control Panel
  - VFD

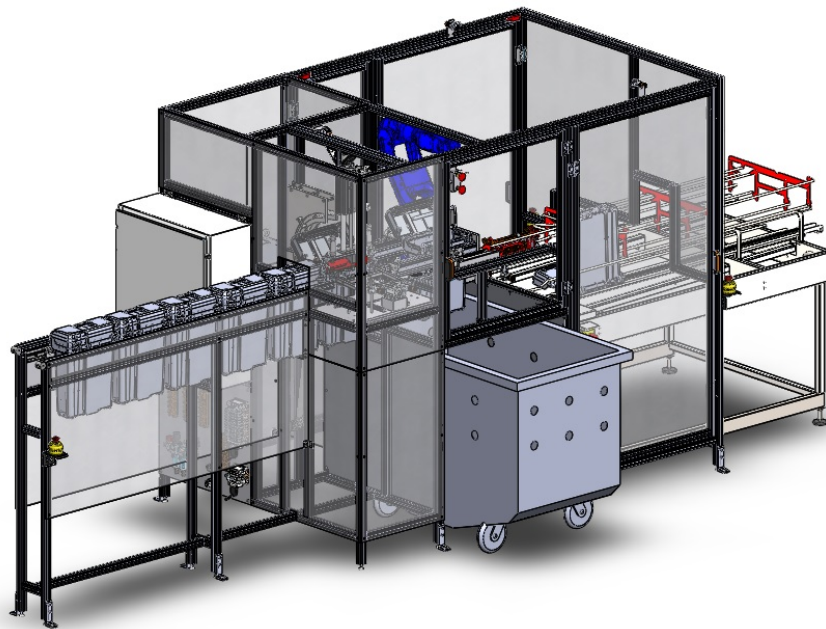


- 480 VAC/60hz/3ph
- Main Enclosure and operator panels

## Equipment Pricing

Price: \$121,280.00

Packaging sufficient for road transport: \$1,550.00







## **Delivery**

- Delivery time approximately 16-18 weeks. Actual delivery will be determined after receipt of order and confirmed delivery of major components, and customer deliverables – medical waste containers (min of 5 of each size)
- Transport organized by customer, FOB Murfreesboro, TN
- Packaging: Machine packaged for road transport with packaging pricing option
- Placement and utility connections of the machine by customer
- Installation at site by customer (CWS to provide startup training and installation support in conjunction with wash equipment assuming all is at the same time)



## **AGREEMENT AND TERMS OF DELIVERY**

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Customer shall be responsible for all reasonable storage charges, which shall be added to the Balance Payment.

(b). The parties agree that the law of the State of Tennessee shall govern this Agreement and its interpretation, conflict of laws principles notwithstanding. This Agreement is made in Tennessee. Jurisdiction and venue for any action to enforce this Agreement shall be exclusively in the state courts in Rutherford County, Tennessee.

(c). In the event CWS must take any action to enforce its rights under this Agreement, it shall be entitled to recover its attorney fees and costs, in addition to damages.

(d). Customer agrees and acknowledges that CWS has made no representation or warranty not contained herein. This Agreement may only be modified or amended in writing signed by the parties.

(e). The technical specifications/options provided by CWS to Customer (previously or simultaneously herewith) are incorporated herein by reference and are hereby accepted by Customer.



June 24, 2021

Clean Harbors  
Mr. Brandon Beaver  
P.O. Box 9149  
42 Longwater Dr.  
Norwell, MA 02061-9149

Dear Mr. Beaver,

Please see the updated proposal for the Rehrig Healthcare 10-17 gallon Sharps container automated tipping system. This machine includes a full guarding package safety. The design includes an automatic infeed (updated to 12 container infeed), robotic/pneumatic opening process, and automatic loading to the UNIKON washer to eliminate any operator interaction with opening the containers. This design is also updated from the prior dock level system to be loaded from just above floor level with the infeed conveyor (requires a larger robot).

Best regards,

A handwritten signature in black ink that reads "Todd Rodewald". The signature is written in a cursive style and is placed on a light gray rectangular background.

Todd Rodewald  
Custom Wash Solutions, LLC  
Mobile: 615-513-0560  
Email: [todd@customwashesolutions.com](mailto:todd@customwashesolutions.com)



**Product Specifications (approx.):**

<b>Product</b>	<b>Width</b>	<b>Length</b>	<b>Height</b>
Rehrig Healthcare 10 gal	12.5"	20"	15.4"
Rehrig Healthcare 17 gal	12.5"	20"	26"

**Capacity:** 100-180 products per hour

**Summary:** CWS will supply the design and build of a machine to automatically open and empty the above listed medical waste containers of (2) different sizes and load onto the washer infeed conveyor.

**Scope:** The following are part of the scope of the project:

- Infeed accumulation conveyor for 12 containers
- Automatically open lid of container
- Automatically dispose of the waste and container lid into customer supplied separate bins
- Automatically load to 10-43 gallon washing machine
- Handle the 2 sizes/styles listed above



## Med-Waste Auto-Decanter

### **Equipment Description**

Equipment will have an infeed conveyor with traffic control to singulate the medical waste containers and a lid opener to prepare the containers for the robot station. The system includes a place for a waste bin (customer supplied), and a six-axis robot – which will open the lid, dump the container into the waste bin, and also will handle the empty containers to feed them into the washer's infeed conveyor.

### **Equipment sequence:**

1. Operator loads the infeed conveyor (Up to 12 containers at once, and continuous loading thereafter). Floor level belt conveyor for operator ergonomics.
2. Press cycle start.
3. Machine transports medical waste container into the robot station.
4. Machine locates container for robot.
5. Robot clamps, lifts, rotates and dumps container into customer supplied waste bins.
6. Robot places empty container in the correct orientation onto washing machine's infeed conveyor.
7. Machine is ready for the next cycle (it will automatically start if machine is fed and all machine conditions are ok including the washing machine).

### **List of Major Components**

The following is a list of the major components and assemblies:

- Belt conveyor (infeed)
- Yaskawa GP88 6-axis robot
  - YRC1000 controller
- Traffic control system (infeed)
- SMC pneumatic cylinders
- SMC pneumatic valves
- Automatic outfeed to washing machine (placing parts onto washer infeed conveyor)
- Guarding
- Control System to include
  - Allen Bradley PLC
  - C-More HMI
  - Banner Safety controls
  - AB door switches



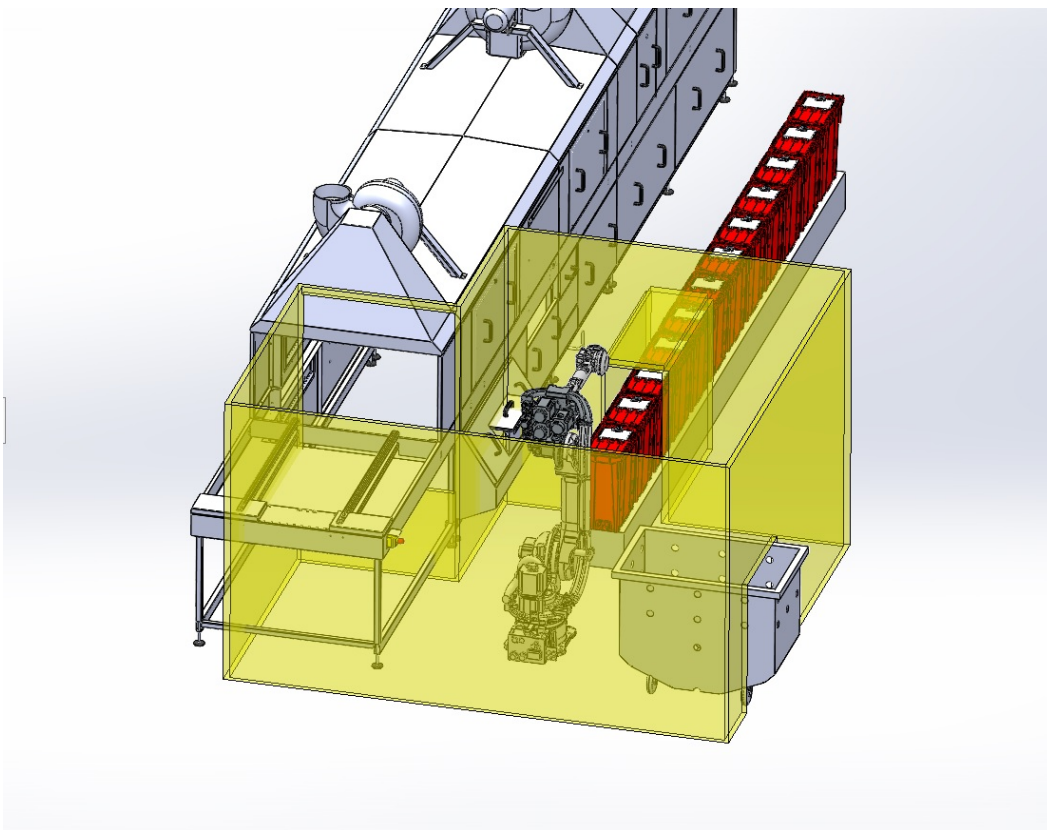


- Control Panel
- 480 VAC/60hz/3ph
- Main Enclosure and operator panel

## Equipment Pricing

Price: \$140,650.00

Packaging sufficient for road transport: \$1,550.00



*Figure 1. Concept layout shown for 10 and 17 gallon. Details not shown.*



## **Delivery**

- Delivery time approximately 16-18 weeks. Actual delivery will be determined after receipt of order and confirmed delivery of major components, and customer deliverables – medical waste containers (min of 5 of each size)
- Transport organized by customer, FOB Murfreesboro, TN
- Packaging: Machine packaged for road transport with packaging pricing option
- Placement and utility connections of the machine by customer
- Installation at site by customer (CWS to provide startup training and installation support in conjunction with wash equipment assuming all is at the same time)



## **AGREEMENT AND TERMS OF DELIVERY**

**Prices:** USD (\$) (the “Purchase Price”)  
**Delivery:** Ex Works Murfreesboro, TN (incoterms 2000)  
Unless otherwise noted, machine packed for road transport.  
**Price validity:** 30 days after offering date  
**Payment:** Payment of the Purchase Price shall be made in two installments, as follows: (i) a 40% non-refundable payment (the “Down Payment”) is due simultaneously with written order confirmation. Commencement of work and project timelines do not start until the Down Payment is received; (ii) 30% at Completion of Design; and (iii) the balance of the Purchase Price (30%) (the “Balance Payment”) shall be due at time of Approval to Ship from factory when the machine is complete (the “Balance Payment Date”). CWS will notify Customer of the completion date and the Balance Payment Date. The machine will not be shipped until the Balance Payment is received. Any delays in receipt of the Balance Payment will result in delays in shipping, which will be solely at Customer’s expense. Customer is responsible for all local sales tax and duties.

In the event the Balance Payment is not made by the Balance Payment Date, the Balance Payment, or any unpaid portion thereof, will accrue interest at a rate of .5% per day until paid-in-full. If the Balance Payment remains unpaid 30 days following the Balance Payment Date, then, at the election of CWS and upon notice (the “Machine Termination Notice”), all rights of Customer in the machine shall be immediately terminated without further notice or action by CWS. The Machine Termination Notice shall only terminate Customer’s rights in the machine and shall not impair any other rights of CWS in this Agreement, including, without limitation, the right of CWS to pursue damages.

**Warranty and  
Warranty Exclusions:**

CWS does not guarantee the performance of the machine in case of deformation of the items to be handled. All wear parts are excluded from the warranty. The warranty covers only material expenses for a period of 12 months from shipment from factory.

EXCEPT AS EXPRESSLY OTHERWISE PROVIDED, CUSTOM WASH SOLUTIONS, LLC MAKES NO WARRANTY OF MERCHANTABILITY OF THE GOODS OR OF THE FITNESS OF THE GOODS FOR ANY PURPOSE. TO THE EXTENT PERMITTED BY LAW, CUSTOM WASH SOLUTIONS, LLC ASSUMES NO LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Notwithstanding anything herein to the contrary, and without limiting the foregoing exclusions, CWS accepts no responsibility for (a) use or operation in any manner inconsistent with that intended; (b) modification or repair by anyone other than CWS; and (c) damage or malfunction because of damage, neglect, accident or misuse.

**Miscellaneous:** (a). In the event Customer does not make the Balance Payment upon the Balance Payment Date or does not take receipt of the machine timely for any reason, then



Customer shall be responsible for all reasonable storage charges, which shall be added to the Balance Payment.

(b). The parties agree that the law of the State of Tennessee shall govern this Agreement and its interpretation, conflict of laws principles notwithstanding. This Agreement is made in Tennessee. Jurisdiction and venue for any action to enforce this Agreement shall be exclusively in the state courts in Rutherford County, Tennessee.

(c). In the event CWS must take any action to enforce its rights under this Agreement, it shall be entitled to recover its attorney fees and costs, in addition to damages.

(d). Customer agrees and acknowledges that CWS has made no representation or warranty not contained herein. This Agreement may only be modified or amended in writing signed by the parties.

(e). The technical specifications/options provided by CWS to Customer (previously or simultaneously herewith) are incorporated herein by reference and are hereby accepted by Customer.

### Professional Engineer Certification

The engineering seal affixed below provides assurance that the document sections have been reviewed by me, the information presented is consistent with the engineering drawings and that the work is consistent with accepted engineering principles and practices.

### Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature 

J. W. Caldwell  
Texas PE # 94038

Date Dec 01/21



## ENGINEERING REPORT – Autoclave 2

This Miscellaneous Unit Engineering Report applies to Autoclave 2 (Permitted Unit # 039) which will be installed at a later date after the installation of Autoclave 1. The information in this report is that required by 40 CFR 264.600-264.602, and 270.23. The location of Autoclave 2 will be in Warehouse II (i.e., CSA2) shown in Appendix V.A – General Engineering Report. The details of Autoclave 2 are shown in Appendix V.K.iii which are identical to Autoclave 1.

Table V.K lists the miscellaneous units covered by this application, the waste managed in each unit, and the rated capacity.

Autoclave 2 is not a hazardous waste management unit but a regulated medical waste management and treatment unit. It will be installed in Warehouse II also know as hazardous waste management unit CSA2, and is related to the environment as described in this report – see Appendix V.K.iii for complete details. Autoclave 2 can accommodate up to six Autoclave Carts which are processed in a batch-wise basis. The Autoclave is set into a concrete pit to allow the Autoclave Carts to be rolled into the Autoclave at grade. The Autoclave is provided with hydraulically operated doors at the front and back to load and remove Carts from the Autoclave. Hydraulically powered Cart Bridges at the front and back of the Autoclave allow for the Carts to rolled into and out of the Autoclave manually and then dropped into the pit to allow the hydraulically powered Autoclave doors to be closed.

The Autoclave cycle is controlled by a PLC control panel which heats and pressurizes the Autoclave on a timed cycle before depressurizing the Autoclave at the end of the cycle. Batches are processed through the cycle in about 45 minutes with a further 15 minutes per batch to load and unload the Autoclave. The Autoclave is provided with 150 psig saturated steam from a Steam Boiler for heating and pressurizing. Condensate is collected and returned to the boiler room. A vent from the Autoclave through the roof is used to depressurize and vent steam form the Autoclave at the end of the cycle before the back hydraulic doors are opened.

Hot Autoclave Carts are wheeled from the Autoclave manually at the end of the cycle and staged at the Trash Compactor. Autoclave Carts are manually loaded onto the Cart to Compactor Tipper that lifts the Autoclave Cart and dumps the contents into a Stationary Compactor. A Ram in the Stationary Compactor pushes and compacts the waste into the 40 cubic yard an Octagonal Roll Off Compactor. Compacted sterilized medical waste is shipped by truck to a local non-hazardous Subtitle D landfill for disposal. The Tipper and Ram are hydraulically powered from a Power Pack adjacent to the Compactor.

Autoclave 2 will be located in Container Storage Warehouse II. Containers to be processed will be secured within Warehouse II. Wastes processed in this unit are materials which are solids that may contain small amounts of liquids at atmospheric temperature and pressure. These are received in various types and sizes of containers



approved for the shipment of regulated medical wastes. After verification of paperwork and inspection of container integrity, the waste contained in the containers are managed following the procedures outlined in the **facility's** Application for Medical Waste Registration (see Appendix V.K.iii). The types of materials to be processed in this unit include various regulated medical wastes excluding body parts. Emissions resulting from the operation of Autoclave 2 consist exclusively of steam. A non-hazardous/non-regulated medical waste **“grey water” will be generated by steam** condensate and container rinsates from Autoclave 2 processes. This wastewater will be collected in a tank and shipped offsite to an approved treatment facility.

Autoclave 2 does not involve combustion, therefore no emissions data or trial burn plan are applicable. Because this unit does not involve combustion, tables such as those similar to Tables V.H.1-5 and Tables V.I.1-5 are also not applicable.

Autoclave 2 will be located within Warehouse II secondary containment. Containment for this Unit will be shared with this Container Storage Area (i.e., CSA2). The Container Storage Area has sufficient secondary containment to allow this unit within its boundaries. The floor of the unit is constructed of reinforced concrete with a six (6)-inch-high perimeter secondary containment curb.

**Table XII.A. - Hazardous Waste Units (For Application Fee Calculations)**

Verbal Description of Unit	Rated Capacity	Surface Acreage <sup>1</sup>	# of Unit Types <sup>2</sup>	Identical Unit Justification <sup>3</sup>
Warehouse II (CSA1)	264,970 gallons	0.33	1	
Autoclaves	6,000 lbs /Cycle	N/A	2	
		Total <sup>4</sup> 0.33	Total <sup>4</sup> 3	

1. Number of calculated acres.
2. Enter number of units except for units identical in type and use which only count toward a single \$500.00 fee.
3. Explain justification for any units claimed as identical in type and use.
4. Enter these totals on the worksheet.

**Table V.K. - Miscellaneous Units**

Permit Unit No.*	Miscellaneous Unit	N.O.R. No.	Storage, Processing, and/or Disposal	Waste Nos. <sup>1</sup>	Rated Capacity	Dimensions	Unit will manage Ignitable, Reactive, or Incompatible Waste (state all that apply)
026	Cylinder Release Unit	028	Processing	See Table IV.B.3	N/A	N/A	Ignitable and Reactive
028	Proposed Cylinder	032	Processing	See Table IV.B.3	N/A	N/A	Ignitable and Reactive
038	Autoclave 1		RMW Processing	See Table IV.B.3	6000 lbs/ Cycle	30'x8'	Regulated Medical Waste
039	Autoclave 2		RMW Processing	See Table IV.B.3	6000 lbs/ Cycle	30'x8'	Regulated Medical Waste

1. from Table IV.B, first column

\*If the unit is already permitted, use the established "Permit Unit No." If the unit is not yet permitted, the number given here for the unit will become the "Permit Unit No." The numbers should be in an order that will be convenient for the facility operator

**Table XII.B. - Hazardous Waste Permit Application Fee Worksheet**

Name of Facility: \_\_\_\_\_ Clean Harbors La Porte, LLC

Solid Waste Registration Number: \_\_\_\_\_ 50225

1.Process Analysis - \$1,000.....\$ \_\_\_\_\_ 1,000

2.Facility Management Analysis - \$500..... \$ \_\_\_\_\_ 500

3.Unit Analysis - 3 units @ \$500 per unit... \$ \_\_\_\_\_ 1,500

4.Site Evaluation 0.33 acres @ \$100 per acre..... \$ \_\_\_\_\_ 33

-

(Maximum of 300 acres) \_\_\_\_\_ 100

<sup>5</sup>Minor amendment, Class 1, or Class 1<sup>1</sup> modification - \$100.....\$ \_\_\_\_\_ 50

<sup>6</sup>Cost of Providing Notice - \$50 (+ \$15 for a renewal)..... \$ \_\_\_\_\_ 50

**Total** \_\_\_\_\_ **\$3,183.00**  
\$

**Pay This Amount**

Make Checks Payable To:

Texas Commission on Environmental Quality - Fund  
549 *(your canceled check will be your receipt)*

Complete And Return With Payment To:

Texas Commission on Environmental  
Quality Financial Administration Division -  
MC 214 P.O. BOX 13088  
Austin, Texas 78711-3088

The applicant's fees are subject to evaluation by the technical staff of the Texas Commission on Environmental Quality (TCEQ). However, the TCEQ reserves the right to assess further fees as may be necessitated.

Please do not submit a photocopy of the check (or equivalent transaction submittal) with your application packet but provide only the following account information:

Check No.	Date of Check	Check Amount
Trace #: 582EA000462714	12/1/2021	\$3,183 (Paid Online)



## Attachment 5

TCEQ-INDUSTRIAL & HAZARDOUSE WASTE  
PERMITS SECTION  
MC-130  
PO Box 13087  
Austin, TX 78711-3087

Applicant Name: Clean Harbors La Porte, LLC  
Permit/Compliance Plan No. 50225  
NOTICE OF CLASS 2 MODIFICATION

**PUBLISHER'S AFFIDAVIT  
FOR INDUSTRIAL & HAZARDOUS WASTE PERMIT/COMPLIANCE PLAN  
APPLICATIONS**

STATE OF TEXAS  
COUNTY OF Harris

§  
§

BEFORE ME, the undersigned notary public, on this day personally appeared,

Victoria Bond, who being by me duly  
*(name of person representing newspaper)*

sworn, deposes and says that (s)he is the AIR Clerk  
*(title of person representing newspaper)*

of the Houston Chronicle dba Pasadena; that this newspaper is a major  
*(name of newspaper)* Citizen

local newspaper of general circulation.

The attached notice was published in said newspaper on the following date(s):

November 24, 2021, Ad #34164677

by Victoria Bond  
*Newspaper Representative's Signature*

Subscribed and sworn to before me this the 26 day of Nov, 2021,

Erika Acevedo  
Notary Public in and for the State of Texas

(Personalized Seal)



ERIKA ACEVEDO  
Print or Type Name of Notary Public

MAY 16, 2024  
My Commission Expires



**NOTICE OF CLASS 2 PERMIT MODIFICATION**

**APPLICATION.** Clean Harbors La Porte, LLC, 500 Independence Parkway South, La Porte, TX 77571, an existing hazardous, non-hazardous & medical waste storage, transfer and processing facility has filed an application for a Class 2 modification to Texas Commission on Environmental Quality (TCEQ) Hazardous Waste Permit No. 50225. The facility is located at 500 Independence Parkway South, La Porte, TX 77571 in Harris County, Texas. The modification requests that the facility be authorized to operate a medical waste treatment operation utilizing steam sterilization. This modification is necessary to allow the facility to treat medical waste it currently stores prior to transfer offsite for treatment at other authorized facilities. A draft permit has not been prepared as of the date of this notice.

**PUBLIC COMMENT/ PUBLIC MEETING.** Due to the COVID-19 pandemic and restrictions for indoor public gatherings the applicant will hold a virtual public meeting on this application electronically on 1/5/2021 at 6:00 pm as required by 30 TAC Section 305.69(c)(4). The meeting can be attended by logging on to <https://cleanharbors.webex.com>

- Click the grey box under "Join a Meeting" and enter the access code: 2422 390 0290
- Enter your Name and e-mail address
- Click on Join Meeting (you may have to click Join Meeting a second time)

To get audio for the WebEx meeting (or if you want to attend by audio only) you will need to dial in at:

- 1 (415) 655-003
- Access Code 2422 390 0290 # (participant ID is not required)

The purpose of the public meeting is to provide information and discuss issues related to the application. The applicant's contact person is Steve Walker, 500 Independence Parkway South, La Porte, TX 77571, (281) 884-5507. A copy of the modification request can be viewed and copied at the following location:

La Porte Branch Library, 600 South Broadway Street, La Porte, Harris County, Texas 77571

Public comments on this application must be submitted within 60 days of newspaper publication of this notice to the TCEQ Chief Clerk's Office, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087. The TCEQ will hold a public meeting on this application if there is a significant degree of public interest. A public meeting is not a contested case hearing.

The Commission may also hold a contested case hearing pursuant to the procedures for class 3 modifications which the Commission may follow if there is significant public concern about the proposed modification, or the complex nature of the change requires the more extensive procedures of a Class 3 modification.

For more information about this permit application, the permitting process, or the permittee's compliance history please call the TCEQ's Public Education Program, Toll Free, at 1-800-687-4040. Si desea información en Español, puede llamar al 1-800-687-4040. The permittee's compliance history during the life of the permit being modified is available from the Office of Public Assistance.



# Attachment 6

**TCEQ ePay Receipt****Transaction Information**

**Trace Number:** 582EA000462714  
**Date:** 12/01/2021 09:52 AM  
**Payment Method:** CC - Authorization 0000011211  
**ePay Actor:** DAVID DESHA  
**TCEQ Amount:** \$3,233.00  
**Texas.gov Price::** \$3,306.00\*

\* This service is provided by Texas.gov, the official website of Texas. The price of this service includes funds that support the ongoing operations and enhancements of Texas.gov, which is provided by a third party in partnership with the State.

**Payment Contact Information**

**Name:** DAVID DESHA  
**Company:** CLEAN HARBORS LA PORTE LLC  
**Address:** 500 INDEPENDENCE PARKWAY SOUTH, LA PORTE, TX 77571  
**Phone:** 423-413-1218

**Cart Items**

Voucher	Fee Description	AR Number	Amount
545662	HAZARDOUS WASTE PERMIT - NEW, AMENDMENTS & MODIFICATIONS		\$3,183.00
545663	30 TAC 305.53B HWP NOTIFICATION FEE		\$50.00
<b>TCEQ Amount:</b>			<b>\$3,233.00</b>

### TCEQ ePay Receipt

**Transaction Information**

**Trace Number:** 582EA000462722  
**Date:** 12/01/2021 10:06 AM  
**Payment Method:** CC - Authorization 0000059624  
**ePay Actor:** DAVID DESHA  
**TCEQ Amount:** \$150.00  
**Texas.gov Price::** \$153.64\*

\* This service is provided by Texas.gov, the official website of Texas. The price of this service includes funds that support the ongoing operations and enhancements of Texas.gov, which is provided by a third party in partnership with the State.

**Payment Contact Information**

**Name:** DAVID DESHA  
**Company:** CLEAN HARBORS LA PORTE LLC  
**Address:** 500 INDEPENDENCE PARKWAY SOUTH, LA PORTE, TX 77571  
**Phone:** 423-413-1218

**Cart Items**

Voucher	Fee Description	AR Number	Amount
545670	MSW PERMIT/REGISTRATION/AMEND/MOD/TEMP AUTHORIZATIONS APPLICATION FEE		\$100.00
545671	30 TAC 305.53B MWP NOTIFICATION FEE		\$50.00
<b>TCEQ Amount:</b>			<b>\$150.00</b>