



Clean Harbors La Porte, LLC

RCRA Class 2 Permit Modification
Application

February 9, 2022



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

February 9, 2022

Sent via Fed Ex & FTPS Upload

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

**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. The subject Class 2 permit modification application 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 permit modification.

This application is uploaded to ftps.tceq.texas.gov, with the original being submitted to your TCEQ office. Please contact me at 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: 2/9/2022

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 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 checked="" 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. 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.

Required Attachments		
1. Core Data Form if requesting an update	Attachment	1
2. Table I - General Information	Attachment	2
3. Signature Page	Attachment	3
4. Pages, tables or attachments from the Part B Application or Part A Application ¹ that change as a result of modification	Attachment	4
5. A list with the names and mailing addresses of all the adjacent landowners ²	Attachment	5
6. A mailing list identifying all persons specified in 30 TAC § 39.413	Attachment	6
7. Map showing the boundaries of all adjacent parcels of land ³	Attachment	7
8. Description of Proposed Application Changes Table	Attachment	8
9. Proof of adjacent landowners and all persons listed in 30 TAC § 39.413 notified by first class mail ⁴	Attachment	9
10. Completed affidavit of publication and the original newspaper public notice tear sheet ⁴ Date of Publication: <u>02/02/2022</u> Date when notices were mailed out: <u>01/31/2022</u>	Attachment	10
11. Proof of Payment receipt. TCEQ E Pay	Attachment	11
<p>¹ If Part A Application is revised, signature page of Part A Application is also required. ² Mailing lists should be separate for adjacent landowners and interested parties/elected officials. ³ 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. ⁴ 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.</p>		



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 Class 2 Modification	
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	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)	
		ventis@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:	ventis@cleanharbors.com							
36. Telephone Number		37. Extension or Code			38. Fax Number <i>(if applicable)</i>			
(281) 884-5500		5519			() -			

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 <i>(In Print)</i> :	David DeSha	Phone:	(423) 413- 1218
Signature:		Date:	2/8/2022



Attachment 2

Table I: General Information

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

Name ¹	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 ²	800102165
Previous or Former Names of the Facility (if applicable)	

B. Facility Owner: Identify the Facility Owner if different than the Facility Operator³

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 Venti, Director Environmental Compliance
Address	500 Independence Parkway S
City, State:	La Porte, TX
Zip Code	77571
Telephone Number	(281) 884-5519
Alternate Telephone Number	(281) 884-5500
E-mail	ventis@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)⁴:

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 available⁵:

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 1¹
- Class 1

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

3. Does the application contain confidential material?⁶

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?

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:

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?
- 2. in wetlands?
- 3. In the critical habitat of an endangered species of plant or animal?
- 4. On the recharge zone of a sole-source aquifer?
- 5. In an area overlying a regional aquifer?
- 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?⁷ [30 TAC 335.202]

No
No
No
No
No
No
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?

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: [Signature] Date: 2/8/2022

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

Owner Signature: [Signature] Date: 2/8/2022

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

8 day of February, 2022.

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: [Handwritten Signature] Date: 2/8/2022

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 8 day of February, 2022
My commission expires on the 13 day of December, 2028

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



[Handwritten Signature]
Exp. 12/13/2022



Attachment 4

Part A

II.B

Attachment B

(Add New Adjacent Property Survey and Legal Description)

1 TITLE DESCRIPTION

A tract or parcel of land containing 4.898 acres (or 213,361 square feet), more or less, being out of the George Gross Survey, Abstract Number 646, HARRIS County, Texas, and being out of and a portion of that certain 6.9554 acre tract as described by deed from Bryan Moore, Trustee, to Art Music and Cigarette Service, Inc., dated March 24, 1977, filed for record under Clerk's File Number F-091873 of the Official Public Records of Real Property of HARRIS County, Texas, the said 4.898 acre tract being more particularly described by metes and bounds as follows:

BEGINNING at a set 1/2-inch iron rod marking the intersection of the said 6.9554 acre tract, same being the south line of a certain 8.4607 acre tract as described by deed filed for record under Clerk's File Number L-310019 of the Official Public Records of Real Property of HARRIS County, Texas, with the east line of Battle Ground Road, the said point also being the Point of Beginning of a certain 2.0575 acre tract conveyed out of the said 6.9554 acre tract to The State of Texas by deed(s) filed for record under Clerk's File Number M-083132 and M-356069, both of the Official Public Records of Real Property of HARRIS County, Texas;

THENCE North 87° 38' 21" East, along the common north line of the said 6.9554 acre tract and the south line of the said 8.4607 acre tract, for a distance of 551.84 feet to a set 1/2-inch iron rod in the west line of a certain 25.031 acre tract described by deed filed for record under Clerk's File Number B-329189 of the Official Public Records of Real Property of HARRIS County, Texas;

THENCE South 02° 26' 11" East, along the west line of the said 25.031 acre tract, for a distance of 390.46 feet to a set 1/2-inch iron rod for corner, marking the northeast corner of a certain 2.00 acre tract as described by deed filed for record under Clerk's File Number K-000213 of the Official Public Records of Real Property of HARRIS County, Texas;

SOUTH South 86° 34' 39" West, along the north line of the said 2.00 acre tract, for a distance of 456.27 feet to a set 1/2-inch iron rod for corner, and being the northwest corner of the said 2.00 acre tract;

THENCE South 11° 17' 59" West, along the west line of the said 2.00 acre tract, for a distance of 98.22 feet to a set 1/2-inch iron rod for corner in the east line of said Battle Ground Road;

THENCE in a northeasterly direction, with the east line of said Battle Ground Road, following a curve to the right, having a radius of 241.56 feet, for a distance of 134.34 feet to a set 1-inch iron rod for corner;

THENCE North 05° 16' 13" West, continuing along the east line of said Battle Ground Road, for a distance of 296.00 feet to a set 1/2-inch iron rod for corner;

THENCE continuing along the east line of said Battle Ground Road, following a curve to the left, having a radius of 296.00 feet, for a distance of 75.03 feet to the POINT OF BEGINNING.

The Title Description calls out the property lying within the George Gross Survey, the correct name is George Ross Survey.

The land shown in this survey is the same as that described in Fidelity National Title Insurance Company, Commitment No.: 1076682100200, GF No.: CH-7668-1076682100200, Effective Date: September 6, 2021, Issued: September 15, 2021.

2 TITLE INFORMATION

THE TITLE DESCRIPTION AND THE SCHEDULE B ITEMS HEREON ARE FROM A TITLE REPORT PREPARED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY, COMMITMENT NO.: 1076682100200, GF NO.: CH-7668-1076682100200, EFFECTIVE DATE: SEPTEMBER 6, 2021, ISSUED: SEPTEMBER 15, 2021.

6 CEMETERY

THERE WAS NO VISIBLE EVIDENCE OF CEMETERIES OR BURIAL GROUNDS OBSERVED AT THE TIME THIS SURVEY WAS PERFORMED.

8 ZONING INFORMATION

ACCORDING TO THE ZONING COMPLIANCE REPORT PREPARED BY COMMERCIAL DUE DILIGENCE SERVICES, JOB NO.: 21-09-0337, INITIAL REPORT DATED 11/18/2021 (PHONE: 888-322-7371, cds.solutions@firstam.com), THE SUBJECT PROPERTY IS ZONED AS FOLLOWS WITH THE CORRESPONDING STANDARDS:

ZONE: No Zoning Jurisdiction. There is no zoning regulation promulgated or administered by Harris County in the unincorporated area.

- MIN. FRONT SETBACK = No requirement
- MIN. SIDE SETBACK = No requirement
- MIN. REAR SETBACK = No requirement
- MAX. HEIGHT = No requirement
- MIN. LOT AREA = No requirement
- MIN. LOT WIDTH = No requirement
- MIN. LOT DEPTH = No requirement
- MAX. BLDG. COV. = No requirement
- FLOOR AREA RATIO = No requirement
- RESIDENTIAL DENSITY = No requirement
- PARKING SPACE FORMULA = No requirement

ALL SETBACK LINES PER THE ABOVE ZONING STANDARDS GRAPHICALLY DEPICTED HEREON ARE ORIENTED WITH THE ASSUMPTION THAT THE FRONT OF THE PROPERTY FACES THE ROAD THAT THE CORRESPONDS WITH THE SUBJECT PROPERTY STREET ADDRESS. ALL ZONING INFORMATION SHOULD BE VERIFIED WITH THE CITY OF LA PORTE, TEXAS BEFORE USE.

3 SCHEDULE "B" ITEMS

NOTES CORRESPONDING TO SCHEDULE "B" SECTION TWO EXCEPTIONS:

- 1 The following restrictive covenants of record itemized below:
Covenants, conditions and restrictions as set forth in the document:
Recording Date: August 11, 1950
Recording No: Volume 2124, Page 685, Deed Records
(DOES AFFECT THE SUBJECT PROPERTY, BLANKET IN NATURE, NO PLOTTABLE ITEMS, THE 50' ESMT. ON PAGE 17 CANNOT BE DETERMINED IF IT AFFECTS AS THE DESCRIPTION IS TOO DATED)
Omitting any covenants or restrictions, if any, including but not limited to those based upon race, color, religion, sex, sexual orientation, familial status, marital status, disability, handicap, national origin, ancestry, or source of income, as set forth in applicable state or federal laws, except to the extent that said covenant or restriction is permitted by applicable law.
- 10a Unlocated pipeline easement granted to Houston Pipe Line Company, as set out in instrument dated July 7, 1954, recorded in Volume 2792, Page 721 of the Deed Records of HARRIS County, Texas.
(AFFECT UNDETERMINED, DESCRIPTION IS BLANKET IN NATURE AND INDETERMINATE, NO VISIBLE EVIDENCE OF "HOUSTON PIPELINE COMPANY" PIPELINES WERE OBSERVED INSIDE THE BOUNDARY OF THE SUBJECT PROPERTY AT THE TIME THE FIELDWORK WAS PERFORMED, PETROLEUM SIGNS WERE OBSERVED ALONG THE EASTERLY RIGHT-OF-WAY LINE OF INDEPENDENCE PARKWAY SOUTH.)
- 10b Easement Ten (10) feet in width as located by a cross-hatched area on the sketch appended thereto, together with an unobstructed aerial easement Eleven (11) feet Six (6) inches in width extending upward from a plane Sixteen (16) feet above ground level northerly and adjoining thereto, granted to Houston Lighting and Power Company, as set out by instrument dated December 27, 1996, filed for record under Clerk's File Number S-304777 of the Official Public Records of Real Property of HARRIS County, Texas.
(DOES AFFECT AND IS PLOTTED ON THE SURVEY.)
- 10c The existence of an on-site sewage facility (CSSF), together with the terms and conditions relative to the maintenance of same, as evidenced by the Affidavit to the Public dated November 13, 1997, filed for record under Clerk's File Number S-737329 of the Official Public Records of Real Property of HARRIS County, Texas.
(DOES AFFECT, BLANKET IN NATURE, NOT PLOTTED.)

5 FLOOD INFORMATION

By scaling and graphic plotting only, the subject property lies within Zone "X" of the Flood Insurance Rate Map for Harris County, Texas, Community Panel or Map Number 40201 D 0930m, bearing an effective date of 1-6-2017. No field survey was performed to determine this Zone and an Elevation Certificate may be needed to verify this determination or apply for a variance from the Federal Emergency Management Agency. Relevant zones are defined on said map as follows:

ZONE "X" - Areas determined to be outside the 0.2% annual chance floodplain.

7 POSSIBLE ENCROACHMENTS

- Ⓐ - CHAIN LINK FENCE IS NORTH OF THE NORTH LINE BY UP TO 10.6 FEET ±.
- Ⓑ - UNDER GROUND DOWNSPOUT DISCHARGE UTILITY MARKING IS NORTH OF THE NORTH LINE BY UP TO 4.3 FEET ±.
- Ⓒ - UNDER GROUND DOWNSPOUT DISCHARGE UTILITY MARKING IS NORTH OF THE NORTH LINE BY UP TO 4.9 FEET ±.
- Ⓓ - UNDER GROUND DOWNSPOUT DISCHARGE UTILITY MARKING IS NORTH OF THE NORTH LINE BY UP TO 1.8 FEET ±.
- Ⓔ - UNDER GROUND DOWNSPOUT DISCHARGE UTILITY MARKING IS NORTH OF THE NORTH LINE BY UP TO 1.4 FEET ±.
- Ⓕ - CHAIN LINK FENCE IS NORTH OF THE NORTH LINE BY UP TO 10.8 FEET ±.
- Ⓖ - CHAIN LINK FENCE IS EAST OF THE EAST LINE BY UP TO 0.4 FEET ±.
- Ⓗ - CHAIN LINK FENCE IS EAST OF THE EAST LINE BY UP TO 0.7 FEET ±.
- Ⓘ - CHAIN LINK FENCE IS NORTH OF THE SOUTH LINE BY UP TO 2.0 FEET ±.
- Ⓚ - CHAIN LINK FENCE IS SOUTH OF THE SOUTH LINE BY UP TO 0.8 FEET ±.
- Ⓛ - CHAIN LINK FENCE IS EAST OF THE EAST LINE BY UP TO 6.0 FEET ±.
- Ⓜ - CHAIN LINK FENCE IS WEST OF THE WEST LINE BY UP TO 0.8 FEET ±.
- Ⓝ - CHAIN LINK FENCE IS WEST OF THE WEST LINE BY UP TO 2.1 FEET ±.
- Ⓟ - CHAIN LINK FENCE IS WEST OF THE WEST LINE BY UP TO 2.2 FEET ±.
- Ⓠ - CHAIN LINK FENCE IS EAST OF THE WEST LINE BY UP TO 3.0 FEET ±.
- Ⓡ - CHAIN LINK FENCE IS WEST OF THE WEST LINE BY UP TO 3.6 FEET ±.
- Ⓢ - CHAIN LINK FENCE IS WEST OF THE WEST LINE BY UP TO 0.2 FEET ±.
- Ⓣ - CHAIN LINK FENCE IS SOUTH OF THE NORTH LINE BY UP TO 2.1 FEET ±.

4 SURVEYOR CERTIFICATION

To: Fidelity National Title Insurance Company.
This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 6(a), 6(b), 7(a), 7(b)(1), 7(c), 8, 9, 11(b) 13, 14, 15, 19, and 20(a) (Graphically depict in relation to the subject tract or property any offsite easements or servitudes benefiting the surveyed property and disclosed in Record Documents provided to the surveyor as part of the Schedule "A"), of Table A therof. The fieldwork was completed on 09/24/2021.

Date of Plat or Map: ****/****

PRELIMINARY, THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND IS FOR EXAMINATION / REVIEW ONLY

Chad W. Walsh
Texas Registered Professional Land Surveyor No. 6497
Texas Firm No. 10132900

11 SURVEYOR'S NOTES

1. This survey is based on information shown on a title report prepared by Fidelity National Title Insurance Company, Commitment No.: 1076682100200, GF No.: CH-7668-1076682100200, Effective Date: September 6, 2021, Issued: September 15, 2021 and all Schedule B exceptions in said title report have been addressed. The surveyor did not abstract this property and has relied on said title report for all matters of record.
2. Subject tract has direct driveway access to INDEPENDENCE PARKWAY SOUTH, a.k.a. STATE HIGHWAY 225 FRONTAGE ROAD, a.k.a. FEEDER FOR BATTLEGROUND ROAD, a public right-of-way.
3. There is no observable evidence of earth moving work, or building construction.
4. No observable evidence of any changes in street right-of-ways or recent street or sidewalk construction or repair.
5. All statements within the certification, and other references located elsewhere hereon, related to utilities, improvements, structures, buildings, party walls, parking, easements, servitudes, foundations and encroachments are based solely on above ground, visible evidence, unless another source of information is specifically referenced hereon.
6. No monuments were set by the surveyor at the time this survey was performed.
7. This survey does not provide a determination or opinion concerning the location or existence of wetlands, faultlines, toxic or hazardous waste areas, subsidence, subsurface and environmental conditions or geological issues. No statement is made concerning the suitability of the subject tract for any intended use, purpose or development.
8. The point of height measurement is identified on the survey and was taken from the nearest adjacent grade at said point. This point represents the height of the structure as observed from ground level.
9. The dimensions and area of the building shown are based on the building's exterior footprint at ground level.
10. The surveyor did not observe any equipment or action associated with the process of drilling for oil, gas, or any other hydrocarbons on this survey.
11. The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from the information available. This surveyor has not physically located the underground utilities. All underground utilities should be field verified by the contractor prior to commencing any on site work.
12. Information for the underground utilities was provided by GPRS, INC (866) 914-4718 - info@gprsync.com.
13. All Reciprocal Easement Agreements ("REAs") that have been reported by the title report provided have been denoted on the survey and are shown hereon. The limits of any offsite appurtenant easements that have been reported by the title report provided have been denoted on the survey and are shown hereon.
14. Unless shown otherwise the surveyed boundary shown hereon is contiguous with the adjoining properties and/or rights of way without any gaps, gores or overlaps.
15. Unless shown otherwise, no visible evidence of substantial areas of refuse were observed at the time the fieldwork was performed.
16. This topographic map and the survey upon which it is based have been prepared and performed in accordance with the United States National Map Accuracy Standards for vertical accuracy.
17. **ELEVATION BENCHMARKS**
HARRIS COUNTY REFERENCE MONUMENT 070425: ELEVATION= 29.55
HARRIS COUNTY REFERENCE MONUMENT 070430: ELEVATION= 28.08
TEMPORARY BENCHMARK #1: CUT X ON TOP OF GRATED INLET: ELEVATION= 30.00 (TBM#1)
TEMPORARY BENCHMARK #2: MAG NAIL SET IN GRAVEL PAVEMENT: ELEVATION= 31.65 (TBM#2)

KEY TO ALTA-SURVEY

- 1 TITLE DESCRIPTION
- 2 TITLE INFORMATION
- 3 SCHEDULE "B" ITEMS
- 4 SURVEYOR CERTIFICATION
- 5 FLOOD INFORMATION
- 6 CEMETERY
- 7 POSSIBLE ENCROACHMENTS
- 8 ZONING INFORMATION
- 9 LEGEND
- 10 BASIS OF BEARING
- 11 SURVEYOR'S NOTES
- 12 PARKING INFORMATION
- 13 LAND AREA
- 14 BUILDING AREA
- 15 BUILDING HEIGHT
- 16 VICINITY MAP
- 17 NORTH ARROW / SCALE
- 18 CLIENT INFORMATION BOX
- 19 SURVEY DRAWING
- 20 PROJECT ADDRESS

18 ALTA/NSPS Land Title Survey

This survey was made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys. (Effective February 23, 2021)

This Work Coordinated By:

CDS
COMMERCIAL
DUE DILIGENCE SERVICES
3550 W. Robinson Street, Third Floor
Norman, Oklahoma 73072
Main Office Phone No.: 405-253-2444

Toll Free: 888.457.7878

Drawn By: KPH	Date: 10/6/2021 Revision: revised exceptions 1 and 10d
Surveyor Ref. No: 21-09-0337	Date: 11/19/2021 Revision: added zoning report
Approved By: CWW	Date: -- Revision: --
Field Date: 09-24-2021	Date: -- Revision: --
Scale: 1" = 30'	Date: -- Revision: --

Prepared For:

20 PROJECT ADDRESS

296 Independence Parkway South
La Porte, Texas 77571

Project Name:
CH La Porte TX
CDS Project Number:
21-09-0337

The surveying company:
Commercial Due Diligence Services
certifies to the accuracy and sufficiency
of the survey provided hereon.

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 ¹	Processing ²	Disposal	Storage ¹	Processing ^{2,3}	Disposal ^{3,4}	
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 ⁵		VARIES
Organic gases	N/A	N/A	X	X	X	X	X ⁵	X ⁵	VARIES
Inorganic gases	N/A	N/A	X	X	X	X	X ⁵	X ⁵	VARIES
Organic liquids	N/A	N/A	X	X	X	X	X ⁵		VARIES
Organic solids	N/A	N/A	X	X	X	X	X ⁵		VARIES
Organic sludge	N/A	N/A	X	X	X	X	X ⁵		VARIES
Aqueous inorganics	N/A	N/A	X	X	X	X	X ⁵		VARIES
Inorganic sludges	N/A	N/A	X	X	X	X	X ⁵		VARIES
Inorganic solids	N/A	N/A	X	X	X	X	X ⁵		VARIES
Inorganic liquids	N/A	N/A	X	X	X	X	X ⁵		VARIES
Class II regulated medical waste	N/A	N/A	X	X	X	X	X ⁵		VARIES

Notes:

^[1] "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.

^[2] "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.

^[3] Represents wastes that are allowed to be managed in the Facility's treatment units.

^[4] Disposal of oxygen only.

^[5] 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 ¹	Processing ²	Disposal	Storage ¹	Processing ²	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:									
^[1] "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.									
^[2] "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 ¹	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	36	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

III.C.1

**Attachment C
(Replacements)**

EXPLANATION

- ⊕ PROPOSED SOIL BORING
- MONITORING WELL
- PUBLIC SUPPLY WELL
- DOMESTIC USE WELL
- OTHER USE WELL

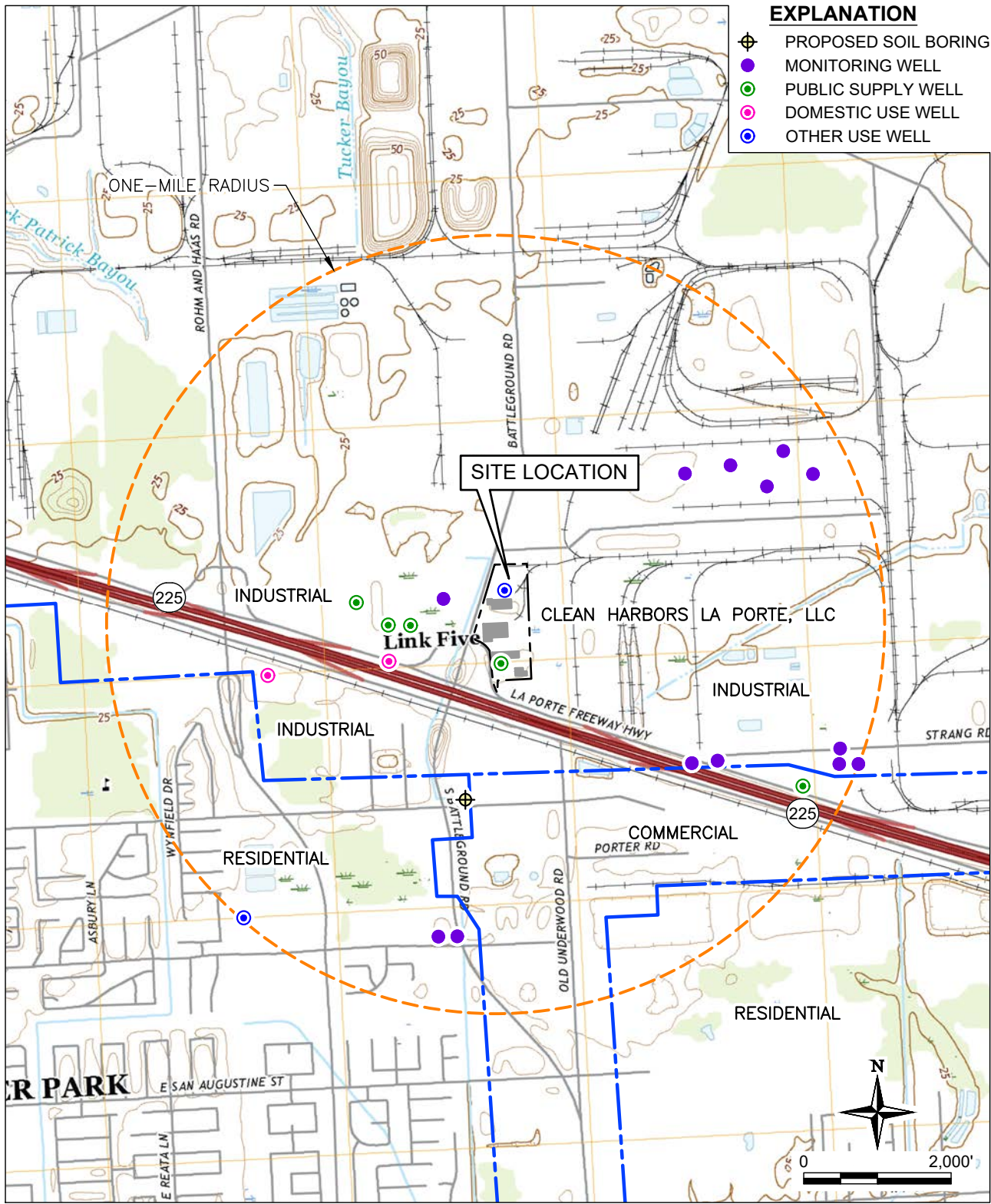


Image Citation: U.S. Geological Survey, 1:24,000—Scale 7.5 Minute Digital Raster Graphic Quadrangle, La Porte, Texas, Publication: 2019



QUADRANGLE LOCATION

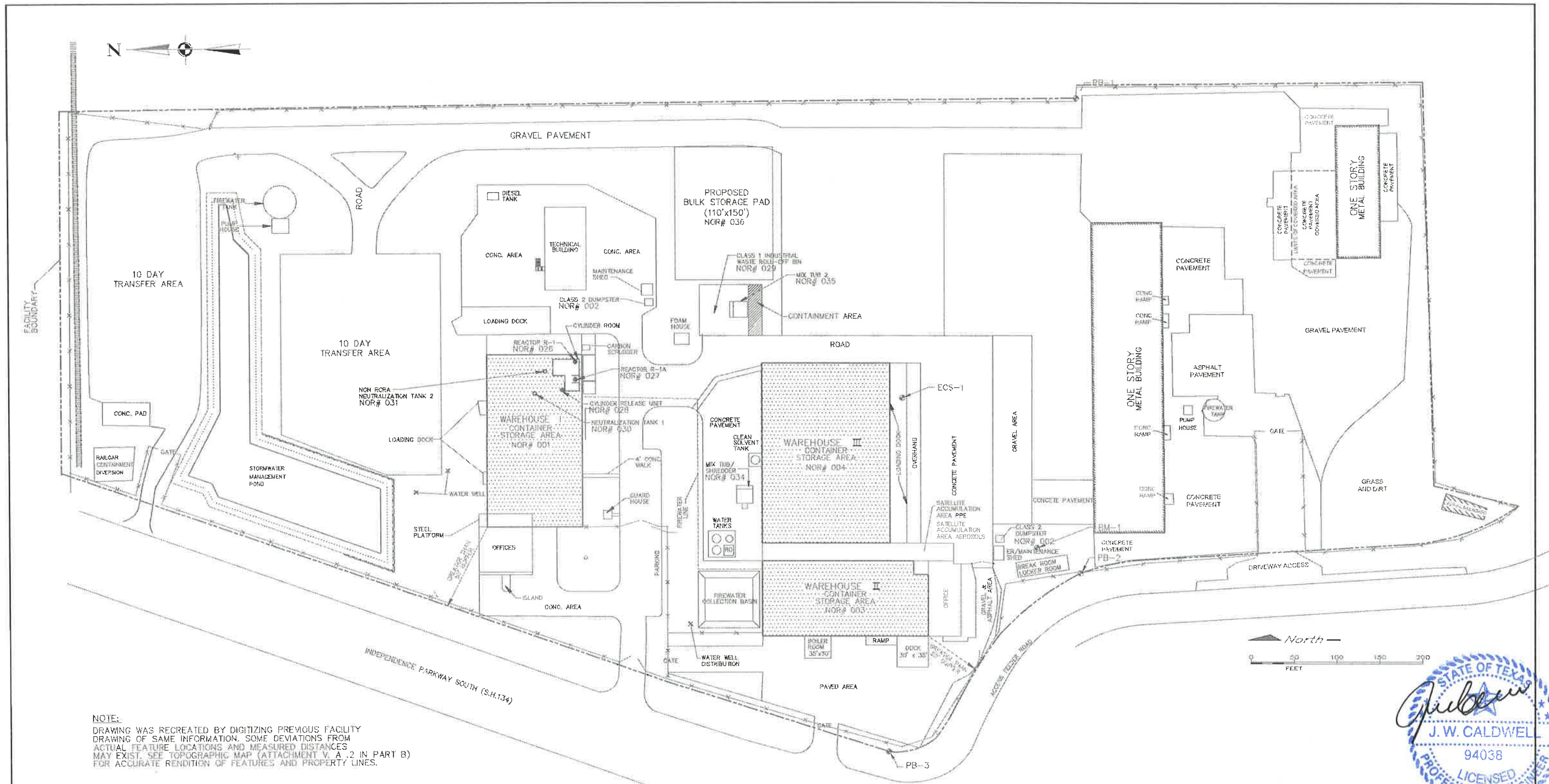
Trihydro
CORPORATION
1252 Commerce Drive
Laramie, Wyoming 82070
www.trihydro.com
(P) 307/745.7474 (F) 307/745.7729

FIGURE 1

SITE LOCATION MAP

CLEAN HARBORS LA PORTE, LLC
LA PORTE, TEXAS

Drawn By: PME | Checked By: FJK | Scale: 1" = 2,000' | Date: 5/20/2020 | File: 69V-SITE-WELLS-LOCATON



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- CHAIN LINK FENCE
- - - BOUNDARY OF EXISTING CONTAINER STORAGE AREAS
- > DRAINAGE CHANNEL FLOWLINE AND FLOW DIRECTION

REFERENCE DRAWINGS		NO.	DESCRIPTION OF ISSUE	DATE
		15	PERMIT RENEWAL 2022	1/25/22
		12	PERMIT RENEWAL 2020	5/7/20
		11	ADDED NOR#54 & NOR#35	2/20/17
		10	CLASS I MODIFICATION	3/21/14
		9	FENCE LINE MODIFICATION	10/8/13
		8	CLASS II MODIFICATION	2/15/13
		7	REMOVED "PROPOSED NOR# 032"	8/10/12
		6	REMOVED "PROPOSED" FROM NOR# 030, ADDED NOR# 029 & NOR# 031	12/29/06

North

0 50 100 150 200 FEET

J.W. CALDWELL
 94038
 LICENSED PROFESSIONAL ENGINEER

01/26/22

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 INC. (A DIVISION OF) AND/OR SUBSIDIARIES THEREOF WHICH HAS BEEN FURNISHED BY LICENSEE UPON THE UNDERSTANDING AND CONDITION THAT ALL PERSONS, FIRMS OR ORGANIZATIONS RECEIVING THIS DRAWING AND INFORMATION SHALL BY THE ACT OF RECEIVING IT BE DEEMED TO HAVE AGREED TO MAINTAIN THE SAME IN CONFIDENTIALITY, TO PROTECT THE RIGHTS OF ALL OF ANY PART THEREOF EXCEPT AS EXPRESSLY AUTHORIZED IN WRITING BY CLEAN HARBORS, (LAPORTE) INC. DO NOT DISTRIBUTE COPIES OF THIS DRAWING, AND RETURN IT PROMPTLY UPON REQUEST.

TITLE: **OVERALL FACILITY PLAN**

FILE: 403-01A

APPROVED:	SCALE: AS NOTED	DWG. NO.: 403-01A	REV. 13
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Part B

Table II Facility Siting Criteria Information
(Replacement)

Table II

Table II contains the following: Table II.A, Table II.B, Table II.C, Table II.D, Table II.E and Flooding from Section II. F of the Part B Application

Table II.A - Requirements for Storage or Processing Facilities, Land Treatment Facilities, Waste Piles, Storage Surface Impoundments, and Landfills

Is the facility located or proposed to be located¹:

In wetlands? [as applicable: 30 TAC 335.204(a)(2), (b)(2), (c)(2), (d)(2), and/or (e)(2)]	No
If Yes: the TCEQ shall not issue a permit for a new hazardous waste management facility or areal expansion of an existing facility into wetlands, pursuant to 30 TAC 335.205(a)(1).	
In the critical habitat of an endangered species of plant or animal? ⁶ [as applicable: 30 TAC 335.204(a)(8), (b)(10), (c)(9), (d)(9), and/or (e)(11)]	No
If Yes: submit in Section V information demonstrating that design, construction, and operational features will prevent adverse effects on such critical habitat.	
On the recharge zone of a sole-source aquifer? ² [30 TAC 335.204(a)(3), (b)(3), (c)(3), (d)(3), and/or (e)(3)]	No
If Yes: then for storage and processing facilities (excluding storage surface impoundments), submit in Section V information demonstrating that secondary containment is provided to preclude migration to groundwater from spills, leaks, or discharges.	
In an area overlying a regional aquifer? [as applicable: 30 TAC 335.204(a)(4), (b)(4), (c)(4), (d)(4), and/or (e)(4)]	No
If Yes: submit site-specific information in Section V and/or Section VI demonstrating compliance with 30 TAC 335.205(a)(1).	
In areas where soil unit(s) are within five feet of the containment structure, or treatment zone, as applicable, that have a Unified Soil Classification of GW, GP, GM, GC, SW, SP, or SM, or a hydraulic conductivity greater than 10-5 cm/sec? [as applicable: 30 TAC 335.204(a)(5), (b)(5), (c)(5), (d)(5), and/or (e)(5)]	No
If Yes: provide additional information in Sections V and/or Section VI demonstrating compliance with 30 TAC 335.205(a)(1)	
In areas of direct drainage within one mile of a lake at its maximum conservation pool level, if the lake is used to supply public drinking water through a public water system? ⁶ [as applicable: 30 TAC 335.204 (a)(6), (b)(7), (c)(6), and/or (e)(8)].	No
If Yes: provide information in Section V demonstrating compliance with 30 TAC 335.205(a)(1).	

In areas of active geologic processes, including but not limited to erosion, submergence, subsidence, faulting, karst formation, flooding in alluvial flood wash zones, meandering river bank cuttings, or earthquakes? ⁶ [as applicable: 30 TAC 335.204(a)(7), (b)(8) ,(c)(7), (d)(7), and/or (e)(9)]	No
Within 30 feet of the upthrown side or 50 feet of the downthrown side of the actual or inferred surface expression of a fault that has reasonably been shown to have caused displacement of shallow Quaternary sediments or of man-made structures? ⁶ [as applicable: 30 TAC 335.204(a)(9), (b)(12) ,(c)(11), (d)(11), and/or (e)(13)]	No
<p>If Yes: specify in Section V the design, construction, and operational features that will prevent adverse effects resulting from any fault movement.</p> <p>If a fault is found to be present, the width and location of the actual or inferred surface expression of the fault, including both the identified zone of deformation and the combined uncertainties in locating a fault trace, must be determined by a qualified geologist or geotechnical engineer and reported in Section VI.</p>	

Table II.B. - Additional Requirements for Land Treatment Facilities [30 TAC 335.204(b)]:

Is the land treatment facility located or proposed to be located: Not Applicable

Within 1000 feet of an established residence, church, school, day care center, surface water body used for a public drinking water supply, or dedicated public park which is in use at the time the notice of intent to file a permit application is filed with the commission, or which is in use at the time the permit application is filed with the commission?
If Yes: the TCEQ shall not issue a permit for a new hazardous waste land treatment unit or an areal expansion of an existing land treatment unit, pursuant to 30 TAC 335.204(b)(6) and 335.205(a).
Within 1000 feet of an area subject to active coastal shoreline erosion even though the area is protected by a barrier island or peninsula?
If Yes: submit in Section V.F design, construction, and operational features which will prevent adverse effects resulting from storm surge and erosion or scouring by water.
Within 5000 feet of a coastal shoreline subject to active shoreline erosion and which is unprotected by a barrier island or peninsula.
If Yes: submit Section V.F design, construction and operational features, which will prevent adverse effects resulting from storm surge and erosion or scouring by water.
On a barrier island or peninsula?
If Yes: the TCEQ shall not issue a permit for a new hazardous waste land treatment unit or an areal expansion of an existing land treatment unit, pursuant to 30 TAC 335.204(b)(11) and 335.205(a)(1).

Table II.C. - Additional Requirements for Waste Piles [30 TAC 335.204(c)]

Is the waste pile located or proposed to be located: Not Applicable

Within 1000 feet of an area subject to active coastal shoreline erosion even though the area is protected by a barrier island or peninsula?
If Yes: submit in Section V.E design, construction, and operational features on the facility which will prevent adverse effects resulting from storm surge and erosion or scouring by water.
Within 5000 feet of a coastal shoreline subject to active shoreline erosion and which is unprotected by a barrier island or peninsula.
If Yes: submit Section V.E design, construction, and operational features which will prevent adverse effects resulting from storm surge and erosion or scouring by water.
On a barrier island or peninsula? ⁶
If Yes: the TCEQ shall not issue a permit for a new hazardous waste pile or an areal expansion of an existing waste pile, pursuant to 30 TAC 335.204(c)(10) and 335.205(a)(1).

Table II.D. - Additional Requirements for Storage Surface Impoundments [30 TAC 335.204(d)]

Is the land treatment facility located or proposed to be located: Not Applicable

Within 1000 feet of an area of active coastal shoreline erosion even though the area is protected by a barrier island or peninsula
If Yes: submit in Section V.D design, construction, and operational features of the facility which will prevent adverse effects resulting from storm surge and erosion or scouring by water.
Within 5000 feet of a coastal shoreline subject to active shoreline erosion and which is unprotected by a barrier island or peninsula.
If Yes: then submit in Section V.D design, construction, and operational features which will prevent adverse effects resulting from storm surge and erosion or scouring by water.
On a barrier island or peninsula? ⁶
If Yes: the TCEQ shall not issue a permit for a new hazardous waste storage surface impoundment or an areal expansion of an existing storage surface impoundment, pursuant to 30 TAC 335.204(d)(10) and 335.205(a)(1).

Table II.E. - Additional Requirements for Landfills (and Surface Impoundments Closed as Landfills with wastes in place)

Is the landfill located or proposed to be located: Not Applicable

Within 1000 feet of an established residence, church, school, day care center, surface water body used for a public drinking water supply, or dedicated public park which is in use at the time the notice of intent to file a permit application is filed with the commission, or which is in use at the time the permit application is filed with the commission?
If Yes: the TCEQ shall not issue a permit for a new hazardous waste landfill or an areal expansion of an existing landfill, pursuant to 30 TAC 335.204(e)(6) and 335.205(a)(1).
(For commercial hazardous waste landfills) in the 100-year flood plain of a perennial stream that is delineated on a flood map adopted by the Federal Emergency Management Agency after September 1, 1985, as zone A1-99, VO, or V1-30?
If Yes: the TCEQ shall not issue a permit for a new hazardous waste landfill or an areal expansion of an existing landfill, pursuant to 30 TAC 335.204(e)(7) and 335.205(a)(1).
Within 1000 feet of an area subject to active coastal shoreline erosion even though the area is protected by a barrier island or peninsula?
If Yes: then submit in Section V.G design, construction, and operational features which will prevent adverse effects resulting from storm surge and erosion or scouring by water.
Within 5000 feet of a coastal shoreline subject to active shoreline erosion and which is unprotected by a barriers island or peninsula.
If Yes: then submit in Section V.G design, construction, and operational features which will prevent adverse effects resulting from storm surge and erosion or scouring by water.
On a barrier island or peninsula?
If Yes: the TCEQ shall not issue a permit for a new hazardous waste landfill or an areal expansion of an existing landfill, pursuant to 30 TAC 335.204(e)(12) and 335.205(a)(1).

Flooding (see Section II Instructions, Item F)

Is the facility within a 100-year flood plain?	No
Has a flood plain map been provided?	Yes
Has information about flooding levels and events, and other special flooding factors, been provided? ³	Not Applicable
Do any flood protection devices exist at the facility (e.g., flood walls, dikes, etc.) designed to prevent washout from the 100-year flood? ³	
If Yes: provide in Section V an engineering analysis to indicate the various hydrodynamic and hydrostatic forces expected to result at the facility as a consequence of a 100-year flood. [40 CFR 270.14(b)(11)(iv)(A)] ⁴	
If No: the applicant shall provide in Section V a plan for constructing flood protection devices and a schedule including specific time frames for completion. Provide engineering analyses to indicate the various hydrodynamic and hydrostatic forces expected to result at the facility as a consequence of a 100-year flood. [40 CFR 270.14(b)(11)(iv)(A)] ⁵	
If applicable, and in lieu of the flood protection devices from above, was a detailed description of the procedures to be followed to remove hazardous waste to safety before the facility is flooded provided? ^{3, 6}	
Additional Information Requirements (see Section II instructions, Item G): Submitted?	

1. Provide the source of information for all questions in the appendix.
2. Note: Land treatment facilities, waste piles, storage surface impoundments, and landfills may not be located on the recharge zone of a sole-source aquifer.
3. Only required to be submitted if the facility is subject to inundation as a result of a 100-year flood event.
4. Include structural or other engineering studies showing the design of operational units (e.g., tanks, incinerators) and flood protection devices (e.g., flood walls, dikes) at the facility and how these will prevent washout. [40 CFR 270.14(b)(11)(iv)(B)]
5. Include structural or other engineering studies showing the design of operational units (e.g., tanks, incinerators) and flood protection devices (e.g., flood walls, dikes) at the facility and how these will prevent washout. [40 CFR 270.14(b)(11)(iv)(B)]
6. The standards contained in §335.204(a)(6) - (9), (b)(7) - (12), (c)(6) - (11), (d)(6) - (11), and (e) (8) - (13) are not applicable to facilities that have submitted a notice of intent to file a permit application pursuant to §335.391 of this title (relating to Pre-Application Review) prior to May 3, 1988, or to facilities that have filed permit applications pursuant to §335.2(a) of this title which were submitted in accordance with Chapter 305 of this title and that were declared to be administratively complete pursuant to §281.3 of this title (relating to Initial Review) prior to May 3, 1988.[30 TAC 335.201(b)]

Permit No. 50225

Permittee: Clean Harbors La Porte, LLC

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**Section III. – Appendix B (TRAINING PLAN) (Replacement
Pages & TCEQ MSW Supervisor B Licensing Curriculum)**

1. Regulatory background, including the intent and purpose of RCRA, as well as local, state, and federal regulations regarding the generation, treatment, recovery, storage, and handling of hazardous wastes.
2. Implementation of the Facility Emergency Response / Contingency Plan, including emergency response to fires, explosions, and releases of hazardous wastes or hazardous waste constituents.
3. Emergency notification procedures.
4. Hands-on experience in the use of emergency response equipment.
5. Operational risk avoidance, including work procedures and precautions, which will ensure that accident occurrences are minimized.
6. Properties of materials handled at the facility.
7. General safety rules and regulations, including first-aid, alarm station locations, safety shower and eye wash locations, personal protective equipment use and maintenance, etc.
8. Response to natural emergencies such as hurricanes, floods, etc.
9. Evacuation plan detailing primary and alternate routes.
10. Compliance with Preparedness and Prevention requirements.
11. Recordkeeping: manifests, inspection logs, and operating records.
12. Procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment.
13. Key parameters for automatic waste feed cut-off systems.
14. How to use emergency communications and alarm systems.
15. Response to groundwater contamination incidents.
16. Shutdown of operations.
17. Proper sampling procedures for personnel who conduct sampling.
18. Proper clean-up procedures for personnel who are involved in clean-up activities after a spill, fire or explosion.
19. Guidelines for Bloodborne Pathogens per Clean Harbors Health and Safety **document, “HS 1.8g”** – Attached as Appendix A.
20. Supervisors assigned to oversee the Warehouse 2 Regulated Medical Waste Operation must complete the TCEQ Class B MSW Facility Supervisor Licensing Course with a specialized medical waste course.

1.2.5 Emergency Response Training

The training program is designed to ensure that facility personnel are able to respond effectively to emergencies by familiarizing them with emergency equipment, systems, and procedures. These items, taught by facility personnel, emphasize the equipment, systems, and procedures available and utilized on-site prior to the arrival of outside emergency response agencies.

This training is provided during the 24-hour OSHA HAZWOPER and 8-hour refresher training courses. Facility personnel (i.e., supervisors) also teach applicable employees on-the-job training. Emphasizes is placed on the type of equipment, systems, and procedures available to be utilized prior to the arrival of outside emergency response agencies.

FACILITY OPERATIONS SUPERVISOR/SHIFT SUPERVISOR

SCOPE:

Responsible for the efficient operation of the shift resources available to this position.

SKILLS:

Strong, people-oriented manager with ability to plan, decide and act to overcome potential problems in a prudent manner. A B.S. in a technical background is preferred, equivalent experience is required. TCEQ Class B MSW Facility Supervisor License with a specialized medical waste course.

RESPONSIBILITIES:

Direct and monitor the total production activities and correct the operation or process equipment as appropriate.

Direct loading, unloading, inspection, weighing, spotting and sampling inbound and outbound trucks.

Check approve and complete inbound and outbound paperwork.

Direct transferring of materials throughout the plant.

Maintain production records.

Direct operation of forklifts and ensure appropriate maintenance is completed.

Supervise daily inventory recordings and calculations.

Direct activities for the preparation and drumming of materials.

Maintain housekeeping standards.

Training new and present employees

Develop new programs.

Approve/schedule in-bound and out-bound loads.

Supervise and organize a shift team to achieve agreed objectives.

Ensure safety procedures and rules are strictly adhered to.



Texas Commission on Environmental Quality

August 2016

Curriculum Guidance for the Class B MSW Facility Supervisor Licensing Course

Training For Municipal Solid Waste Facility Supervisors of Registered or Permitted:

- Type V Storage & Processing Facilities
- Medical Waste Management
- Compost Facilities
- Type VI Demonstration Facilities
- Type IX Energy or Material Recovery Facilities

This course is 24-28 hours of training for supervisors of storage and processing facilities including: recycling and composting facilities, medical waste management facilities, Type VI demonstration facilities, and Type IX energy or material recovery facilities. The course must include sufficient instruction using training materials, demonstrations, facility tours, or other means to ensure supervisors are knowledgeable of rules that regulate the municipal solid waste facilities they supervise. Time periods for all course topics are approximate. Renewal of a B level MSW license requires 16 hours of approved continuing education.

Individuals managing or supervising medical waste or compost facilities requiring an MSW registration or permit, shall complete a TCEQ recognized or approved specialized training course applicable to that facility before being issued a class B MSW Facility Supervisor license. Therefore, coverage of the supervision of medical waste or composting facilities in the class B MSW training need only include an overview related to regulatory compliance.

Individuals completing the class B MSW facility supervisor course, passing the examination, but not completing the specialized course will be issued a provisional class B license. In order to obtain a class B MSW license, a specialized course must be completed before the expiration date of the provisional license.

Course topics should include:

INTRODUCTION (2 Hours)

- Qualifications for obtaining initial licenses and renewal of licenses. 30 TAC 30, Subchapter F.
- **Brief** history of municipal solid waste and recycling today.

- Introduction to statutes and rules pertinent to MSW facilities including how to locate and understand the rules.
- General prohibitions and unauthorized discharge.
- Waste characteristics.
- General discussion - Texas Health Safety Code, 341, 343, 361, 363, 370, 382, and Texas Water Code 7, 26, and 28.

CLASSIFICATION OF MUNICIPAL SOLID WASTE FACILITIES

- Type I and IAE Landfills
- Type IV and IVAE Landfills
- Type V Solid Waste Processing
- Type VI Demonstration Facilities
- Type IX Landfill Mining for Beneficial Use or Energy Recovery

MUNICIPAL SOLID WASTE FACILITY AUTHORIZATION – GENERAL KNOWLEDGE

MUNICIPAL SOLID WASTE COLLECTION AND TRANSPORTATION

Transporters delivering waste to the MSW facility are responsible for removal of unacceptable or unauthorized waste. Transporters are also responsible for collecting spillage on route to the MSW facility as well as maintaining collection vehicles in a manner to prevent loss of waste and fluids from the vehicle. Supervisors of municipal solid waste facilities should be knowledgeable of the responsibilities of transporters that enter the MSW facility.

- Transporters responsibilities in relation to:
 - Delivery and removal of unauthorized waste
 - Collection of spillage
- Transporters responsibilities in relation to:
 - Vehicle sanitation standards
 - Operating condition of vehicles

TYPE V PROCESSING FACILITIES (16-20 Hours)

Separate solid waste processing facilities are classified as Type V. These facilities include processing plants that transfer, incinerate, shred, grind, bale, salvage, separate, dewater, reclaim, and/or provide other storage or processing of solid waste.

OPERATING STANDARDS FOR TYPE V MSW STORAGE AND PROCESSING UNITS

Owners or operators of Type V MSW Storage and Processing Units must follow the minimum design and operational requirements prescribed in 30 TAC 330, Subchapter E.

- Applicability
- Waste Acceptance and Analysis
 - Sources and characteristics of waste
 - Types and amounts
 - Parameter limitations
 - Storage limits and processing time
 - Effluent sampling
 - Analysis for waste received
 - Recordkeeping

- Facility Generated Wastes
 - Characteristics and constituent concentrations of wastes generated
 - Processing and disposal of facility generated wastes
 - Sludge management
- Contaminated Water Management
 - Liquid disposal
 - Contaminated water and leachate management
 - Leachate and gas condensate prohibitions
 - Discharge requirements
 - Effluent limitations
 - Storage prohibitions
- Storage Requirements
- Approved Containers
- Citizen's Collection Stations
- Stationary Compactors
- Pre-Operation Notice and Investigation
- Recordkeeping and Reporting
- Fire Protection
 - Water supply
 - Firefighting equipment
 - Fire protection plan
- Access Control
- Unloading of Wastes
- Spill Prevention and Control
- Operating Hours
- Facility Signage
- Control of Windblown Material and Litter
- Materials Along the Route to the Site
- Facility Access Roads
- Noise Pollution and Visual Screening
- Overload and Breakdown
 - Design capacity
 - Alternate processing or disposal plan
- Sanitation
 - Minimum requirements
 - Onsite storage limitations
 - Wash water disposal
- Ventilation and Air Pollution Control
- Health and Safety
 - Personnel training
 - Facility health and safety plan
- Employee Sanitation Facilities
- Surface Water Drainage
- Closure Requirements for Municipal Solid Waste Storage and Processing Units
- Financial Assurance - Basic Information
- Groundwater Monitoring - Basic Information

The purpose of this section is to establish procedures and requirements for handling, transporting, and disposal of medical waste that the Board of Health has determined requires special handling to protect health or the environment. This section is applicable to persons who generate, collect, transport, store, process, treat or dispose of medical waste.

- Definitions (Subchapter A)
- Packaging, Labeling, and Shipping Requirements (Subchapter B)
- Generators of Medical Waste (Subchapter C)
- On-site Treatment, Collection, and Transfer by Generators (Subchapter D)
- Transporters of Untreated Medical Waste (Subchapter E)
- On-site Treatment Services on Mobile Treatment Units (Subchapter E)
- Medical Waste Storage and Processing Facilities (Subchapter F)

TYPE V – PERMITTED OR REGISTERED COMPOSTING FACILITIES – 30 TAC 332 and 328

The purpose of compost facilities is to divert organic materials from the typical municipal solid waste stream, and promote the beneficial reuse of those materials while maintaining standards for human health and safety and environmental protection.

- General Information (332.1 - 332.8)
- Compost operations requiring a registration (332.31 - 332.38 and 328.4 - 328.5)
- Compost operations requiring a permit (332.41 - 332.46 and 328.4 - 328.5)
- End-product standards (332.71 - 332.75)
- Other state and federal rules as applicable:
 - TEXAS HEALTH & SAFETY CODE:
 - CHAPTER 341. MINIMUM STANDARDS OF SANITATION AND HEALTH PROTECTION MEASURES
 - Sec. 341.011. Nuisance
 - Sec. 341.012. Abatement of Nuisance
 - Sec. 341.013. Garbage, Refuse, and Other Waste
 - CHAPTER 343. ABATEMENT OF PUBLIC NUISANCES
 - Sec. 343.011. Public Nuisance
 - CHAPTER 361. SOLID WASTE DISPOSAL ACT
 - CHAPTER 365. LITTER
 - Sec. 365.012. Illegal Dumping; Criminal Penalties
 - CHAPTER 370. TEXAS TOXIC CHEMICAL RELEASE REPORTING ACT
 - CHAPTER 382. TEXAS CLEAN AIR ACT
 - CHAPTER 401. TEXAS RADIATION CONTROL ACT
 - TEXAS WATER CODE
 - CHAPTER 26. WATER QUALITY CONTROL
 - TEXAS ADMINISTRATIVE CODE
 - CHAPTER 101 GENERAL AIR QUALITY RULES
 - Section 101.4. Nuisance

TYPE IX – ENERGY OR MATERIAL RECOVERY FACILITIES (2 Hours)

A Type IX facility is a municipal solid waste facility located within or adjacent to a closed disposal facility, an inactive portion of a disposal facility, or an active disposal facility for the purpose of extracting materials for energy and material recovery for beneficial use.

- Minimum design and operational requirements (30 TAC 330, Subchapter E)
- Closure Requirements for Municipal Solid Waste Storage and Processing Units (30 TAC 330.459)
- Certification of Final Facility Closure (30 TAC 330.461)
- Closure Cost Estimates for Storage and Processing Units (30 TAC 330.505)
- Financial Assurance (30 TAC 37, Subchapter R)

GENERAL TOPICS (4 Hours)
(Include Measurable Verification of Comprehension)

REGULATIONS, REGULATORS, AND PUBLIC RELATIONS

- Brief history of municipal solid waste management—the rule making process.
- Authority and relationships with other governmental entities.
- How to effectively communicate with regulators during routine site and complaint investigations.
 - Preparing for site inspection (scheduling time, records needed, sampling)
 - Responding to notices of violation
 - Corrective action planning
- Good neighbor relations
 - Responding to complaints
 - Investigating a complaint
 - Corrective action

BASIC MATH

Supervisors of MSW facilities should have basic mathematical skills in order to measure and evaluate basic information. Instruction should be given to include:

- Calculating averages
- Conversion processes (pounds to tons, cubic feet to cubic yards, etc.)

EQUIPMENT OPERATION AND MAINTENANCE

In order to comply with an MSW facility's permit, proper equipment operation and maintenance is a critical function.

- Avoiding unnecessary breakdowns/proper equipment maintenance
- Back up equipment/emergency preparedness

SAFE OPERATING PROCEDURES AND WORKPLACE HAZARDS

Identifying workplace hazards and communicating those hazards to employees and the general public is necessary to protect human health and safety and environmental protection.

- Effective safety programs
- Workplace hazards
- Employee and public awareness

GUIDANCE DOCUMENTS FOR MUNICIPAL SOLID WASTE (330.17)

The following guidance documents and templates have been prepared to aid in complying with the revised MSW rules (30 TAC Chapter 330) that became effective March 27, 2006. As a simplified explanation of the rules, the guides below are intended to help achieve compliance with environmental regulations. Guides are just one tool to use to reach full compliance, remember that the rules are what you must follow.

TCEQ Web site: www.tceq.texas.gov

https://www.tceq.texas.gov/permitting/waste_permits/msw_permits

https://www.tceq.texas.gov/permitting/waste_permits/msw_permits/msw_ris_guid.html

https://www.tceq.texas.gov/permitting/waste_permits/msw_permits/perm_reg_mod.html

http://www.tceq.texas.gov/publications/rg/rg-022.html/at_download/file

https://www.tceq.texas.gov/permitting/registration/ihw/Am_I_Regulated.html

https://www.tceq.texas.gov/permitting/waste_permits/msw_permits/MSW_amIregulatedcomposting.html

https://www.tceq.texas.gov/permitting/waste_permits/msw_permits/MSW_amIregulatedrecycling.html

TCEQ Occupation License Online Registration and Renewal

<http://www.tceq.texas.gov/licensing>

Rules and Rulemaking

https://www.tceq.texas.gov/rules/rules_rulemaking.html

Small Business and Local Government Assistance

The TCEQ's Small Business and Local Government Assistance (SBLGA) program provides confidential technical assistance without threat of enforcement.

www.tceq.texas.gov/assistance/sblga/sblga.html or

www.tceq.texas.gov/assistance

www.tceq.texas.gov/publications/gi/gi-002a.html

Section III. – Appendix D (Inspection Plan)
(Replacement Pages)

Table III.D. – Inspection Schedule

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection
CONTAINERS	<ul style="list-style-type: none"> · Regulated Medical Waste autoclaves not sealed/leaking; no visible emissions; no odors. · Housekeeping in good order around autoclaves - no accumulation of trash or debris. · Proper approved container used. · No leaking or waste on the outside of drums or containers. <ul style="list-style-type: none"> · No spills or standing liquids. · No damaged, corroded, or rusted containers. <ul style="list-style-type: none"> · Lids, Rings, Bungs, Valves, Ties, Flaps, etc. closed per US DOT standards. · Containers properly secured on pallets or by other means. · Labels/Markings correct, legible and facing out. · Containers not stacked more than three (3) high. <ul style="list-style-type: none"> · Bulk containers have proper markings. · Exempt packages follow all requirements. · Incompatible wastes are properly segregated and placed in properly designated Storage Units. 	Daily (except weekends and holidays)



LT Daily Warehouse Container Inspection

Form Code: 3859

Compliance Header	
Inspector Name	
Area of Inspection	
Inspection Date and Time	
CO CSA Inspection Instructions	
Note condition of inspection items. If item does not apply to an area, mark N/A. All unsatisfactory findings must be explained below. Include any repairs, changes or other remedial actions required or performed.	
LT Daily Container Inspection	
Container Placement and Stacking - Check for evidence of failure (e.g., containers on pallets, pallets too high, unstable, other).	
Sealing of Containers - Check for evidence of failure (e.g., containers not closed or sealed, open).	
Labeling of Containers - Check for evidence of failure (e.g., no label, improper label, content, other).	
Container Integrity - Check for evidence of failure (e.g., condition, bulging, leaks, rust, corrosion, other). Containers do not have waste/staining on the outside which would require cleaning or overpacking.	
Pallets - Check for evidence of failure (e.g., broken, loose, condition).	
Base/ Foundation/ Roof - Check for evidence of failure (e.g., cracked, gaps, other).	
Berms/ Racks - Check for evidence of failure (e.g., cracks, gaps, broken, other).	
Aisle Space - Check for evidence of failure (e.g., minimum 2 ft required, other).	

Containment Area - Check for evidence of failure (e.g., secondary containment, curbing, floor, cracks, deterioration, ponding or wet spots, other).	
Sumps - Check for evidence of failure (e.g., cracks, ponding or wet spots, pitting or deterioration, other).	
Loading/ Unloading Areas - Check condition of area (e.g., available equipment, spill response, containment, pad condition, valve access box, ponding or wet spots, other).	
Storage Capacity - Check for acceptable limit (e.g., area or permit restrictions, type restriction, volume limit, other).	
Inventory Age - Check for acceptable limit (e.g., within area limits, permit restrictions, other).	
Satellite Accumulation Containers - Check for condition and appropriate for area (e.g., filter/basket, solids, label and marking, other).	
LT Autoclave/Processing Inspection	
All lines are closed & tagged	
No Leaks or Spills on ground at roller bed and autoclave	
No visible emissions	
Housekeeping around roller bed and autoclave maintained and free from spills, trash and debris	
Bonding and Grounding - Check for evidence of failure (e.g., loose, broken, corrosion or deterioration, other).	
LT Daily Inspection, Other	
All safety equipment and spill kits are maintained and unobstructed	
Housekeeping – check all areas for trip hazards, trash, debris and other hazards	
Doors - Check for evidence of failure (e.g.,	

indoor area, broken or not working as intended).	
Exit Signs - Check for evidence of failure (e.g. missing, lamps, battery backup, other).	
Communication and Alarm System - Check for evidence of failure (e.g., test function, siren, strobe, other).	
Fire Extinguishers - Check for evidence of failure (e.g., overdue inspection, not charged, inaccessible, other).	
Compliance Footer	
Inspector Signature	
Attach Photo	
Inspection Overall Assessment	

Section III. – Appendix E (Contingency Plan)
(Replacement Pages)

Clean Harbors La Porte, LLC
 EMERGENCY CONTACT / COORDINATOR TELEPHONE NUMBERS

Primary Emergency Coordinator/Facility Security Officer (FSO):

→ Stephen Venti		
7018 Jordan Rd	Work Phone:	(281)884-5519
Manvel, TX 77578	Cell Phone:	(713)594-9038

Alternate Emergency Coordinators:

→ Angel Cano		
3614 Tanglebriar Pasadena, TX 77503	Work Phone:	(281) 884-5536
	Cell Phone:	(832) 347-6808
→ Ed Isom		
920 Azalea Pointe League City, TX 77573	Work Phone:	(281) 884-5518
	Cell Phone:	(832) 256-0921
→ Yuriy Kotlyarov		
→ 7016 Jordan Rd	Work Phone:	(281) 884-5567
Manvel, TX 77578	Cell Phone:	(281)743-8039

Community

Harris County Sheriff Department	<u>Hours</u>	<u>Telephone</u>
La Porte Fire Department	24 hour	(713) 221-6000 (911)
La Porte Emergency Medical Services	24 hour	(281) 471-3607 (911)
Deer Park Fire Department	24 hour	(281) 471-3607 (911)
La Porte LEPC	24 hour	(281) 478-7298
	24 hour	(713) 471-3811 ext. 721

Medical

Bayshore Medical Center	<u>Hours</u>	<u>Telephone</u>
San Augustine Clinic	24 hour	(713) 359-2000 or (713) 359-1440
Life Flight Helicopter	NWH	(281) 476-4616
Bayport Occupational Medical Center	24 hour	(713) 704-4357
	NWH	(281) 470-0543

Roadblock, Law Enforcement

Harris County Sheriff Department	<u>Hours</u>	<u>Telephone</u>
	24 hour	(713) 221-6000 (911)

Neighboring Industries

Dow Chemical	<u>Hours</u>	<u>Telephone</u>
AKZO Nobel	24 hour	(713) 246-0240
	24 hour	(281) 479-8411

Regulatory

National Response Center (NRC)	<u>Hours</u>	<u>Telephone</u>
Texas Commission on Environmental Quality, Local (TCEQ)	24 hour	(800) 424-8802
Texas Commission on Environmental Quality, Austin (TCEQ)	NWH	(713) 767-3500 or (713) 767-3563
Harris County Pollution Control (HCPC)	24 hour	(512) 239-2507 or (512) 463-7727
Texas Parks & Wildlife (TP&WL)	24 hour	(713) 920-2831
Texas Department of Public Safety, Division of Emergency Management (TDPS)	24 hour	(800) 792-1112
Texas Department of Health (TDH) - Bureau of Epidemiology	NWH	(512) 424-2138
Environmental Protection Agency (EPA) - NPDES Hotline	NWH	(512) 458-7268
Department of Homeland Security (DHS) National Infrastructure Coordinating Center (NICC)*	NWH	(214) 665-6595
	24 hour	(202) 282-9201

Information & ER Response

Clean Harbors Environmental Services, Inc. Emergency Response	<u>Hours</u>	<u>Telephone</u>
Poison Control	24 hour	(800) 645-8265
	24 hour	(800) 764-7661

Fire Alarms/Zone A Intrusion

Stanley Security	<u>Hours</u>	<u>Telephone</u>
	24 hour	(877) 899-0001

Spill Clean-up

Clean Harbors La Porte, LLC	<u>Hours</u>	<u>Telephone</u>
	24 hour	(281) 884-5500

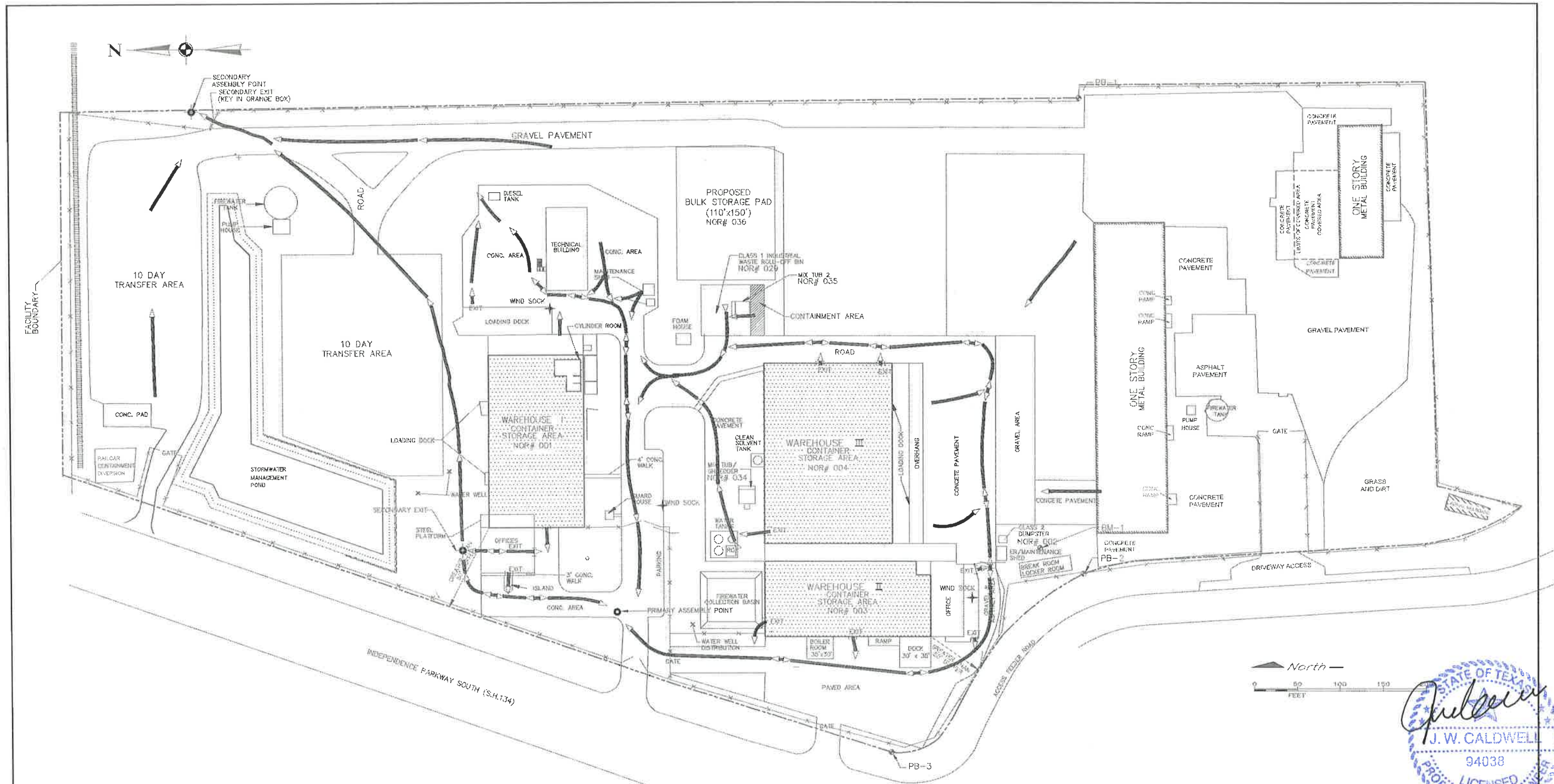
NWH - Normal Working Hours

*If the facility identifies a significant security incident or significant cyber security incident, that incident should be reported to DHS. Significant noncyber incidents should be immediately reported to local law enforcement (911) and reported to NICC via email (nicc@dhs.gov) or phone (1-202-282-9201). Significant cyber security incidents should be reported to DHS's US-CERT online (www.us-cert.gov) or via phone (1-888-282-0870).

Table III.E.2 - Emergency Coordinators

Name	Home Address	Office Phone(s) and/or Pager	Home Phone(s)
Primary	Stephen Venti 7018 Jordan Road Manvel, TX 77587	(281) 884-5519	(713) 594-9038
Primary			

Name	Home Address	Office Phone(s) and/or Pager	Home Phone(s)
Alternate	Angel Cano 3614 Tanglebriar Pasadena, TX 77503	(281) 884-5536	(832) 347-6808
Alternate	Ed Isom 920 Azalea Pointe League City, TX 77573	(281) 884-5518	(832) 256-0921
Alternate	Yuriy Kotlyarov 7016 Jordan Rd Manvel, TX 77578	(281) 884-5567	(281) 743-8039



STATE OF TEXAS
J. W. Caldwell
 J. W. CALDWELL
 94038
 LICENSED PROFESSIONAL ENGINEER

01/26/22

CleanHarbors LAPORTE
 500 Independence Parkway South
 LaPorte, Texas 77571
 Phone: (281) 727-7800

REFERENCE DRAWINGS		NO.	DESCRIPTION	DATE	BY	CHKD	DESIGNED	APPROVED	DATE	REV.
		11	PERMIT RENEWAL 2022	1/25/22	WDS					
		10	PERMIT RENEWAL 2020	4/9/20	KMC					
		9	CLASS B PERMIT MODIFICATION		KMC					
		8	CLASS I MODIFICATION	3/21/14	KMC					
		7	FENCE LINE MODIFICATION	10/8/13	KMC					
		6	REVISED ADDRESS & REMOVED ADJACENT PROPERTY INFORMATION	7/30/09	KMC					
		5	GENERAL REVISION	2/25/08	WDS					
		4	ADDED POINTS TO EXISTING	1/24/06	WDS					

TITLE:	EVACUATION PLAN GENERAL PLAN		
APPROVED:	SCALE:	DWG. NO.:	REV.
	1"=50'	307-01-101	11

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Section V – Engineering Reports
(Replacements and New Reports for Autoclaves)

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 *February 7, 2022*



GENERAL ENGINEERING REPORT

GENERAL INFORMATION

The maps and drawings listed below are included with this General Engineering Report for Clean Harbors LaPorte, LLC. These maps are included to provide the information required by 40 CFR 270.14.b.19.i through xii.

- Overall Facility Plan (V.A.1)
- Topographic Site Map (V.A.2)
- Facility Traffic Patterns (V.A.3)
- Windrose (V.A.4)
- Overall Facility Plan +1000' (V.A.5)
- Regional Map (V.A.6)

General engineering drawings that are applicable to the facility as a whole include those listed below which are attached to this Engineering Report.

- Overall Facility Plan
- Current Facility Evacuation Plan (See Section III.E)
- Current Emergency Equipment (See Section III.E)

The Proposed Site Plan shows the location of the existing tanks and associated containments, container storage areas, truck stations, and proposed units.

Stand-alone detailed engineering reports are provided for each container storage area, tank system and associated secondary containment, and miscellaneous units and associated secondary containment (Appendices V.B.i through V.B.iv for container storage areas, Appendices V.C.i through V.C.iii for tank systems, and V.K.i and V.K.ii for miscellaneous equipment). All of the hazardous waste management units at the facility meet the design and operation requirements set out in 40 CFR 264, and other applicable requirements. For specific details within these areas, refer to the applicable Engineering Reports for each waste management unit, which will include the specific drawings for that area.

The Clean Harbors LaPorte, LLC facility is located on three tracts of property which total 22 acres to be permitted. The facility is located in an area that is within an exclusively heavy industrial/manufacturing corridor north of State Highway 225 (see the Regional Map for additional details on adjacent zoning and land use).

The traffic pattern is illustrated on the attached Facility Traffic Patterns figure. All trucks carrying wastes are required to stay on a hard-surfaced (concrete or gravel) area. The estimated load-bearing capacity of the internal roads is 18,000 lbs/axle. This capacity is adequate to allow any traffic which can legally travel on Texas highways to enter the

facility. Access to the facility is provided by Independence Parkway South (State Highway 134). Independence Parkway South is used by industries located to the north of the Facility and current traffic includes numerous large tractor-trailer trucks. It is estimated that the Facility can service 8 or more trucks over a 12-hour period or at least one truck every hour. This frequency of traffic related to the facility will have an insignificant impact on the existing traffic on Independence Parkway South. Generally, trucks entering the Facility will be headed north on Independence Parkway South (the ferry at the Houston Ship Channel is not rated for medium to large trucks) and will enter by taking a right into the Facility without having to cross on-coming traffic. Trucks leaving the facility will turn either left or right onto Independence Parkway South. Parking space within the facility is adequate to allow staging of any trucks waiting to be loaded or unloaded.

The National Climatic Data Center (NCDC) of the National Oceanic and Atmospheric Administration (NOAA) was contacted to provide a wind rose from the monitored weather station nearest the vicinity of the facility. A composite wind rose incorporating wind direction and speed measurements was provided by NCDC and is attached below. This wind rose represents statistical prevailing wind speed and direction using data collected from William P. Hobby Airport in Houston, Texas, located approximately 11.5 miles west-southwest of the facility. The prevailing wind is from the south-southeast (SSE) with predominant wind speeds between 4 and 12 miles per hour. From the wind rose, the SSE direction represents about 13.5 percent of all observed wind directions, while the predominant quadrant (South to ESE) represents about 42 percent of all observed wind directions.

The facility topographic map requirements are met with multiple drawings. This drawing package combines to meet the specifications in 40 CFR 270.14(b)(19) and are attached to this General Engineering Report. Several drawings that depict an overall plan view of the facility identifying all waste management units is included with the drawings at the end of this report.

WASTE RECEIVING, ACCEPTANCE AND STORAGE

All permitted units, except for the newly proposed outdoor storage area, are enclosed in commercial-grade metal buildings and include proper secondary containment, safety equipment and other design features discussed in detail in Appendices V.B (container storage areas), V.C. (tanks), and V.K (miscellaneous units). The entire facility also has the following adaptations specifically for the management of hazardous waste:

- Cyclone fencing with three (3)-strand barbed wire surrounding the facility with warning signs at appropriate spacing along the fence;
- Safety and communication equipment (fixed and portable) to provide on-site emergency notification and response; and

- Sealed concrete flooring, curbing and berms constructed to provide secondary containment in the event of a spill or leak from containers or tanks and for waste segregation.

In developing the process designs, special attention was given to:

- Overall facility layout to ensure optimum safety and handling efficiencies,
- Material handling safety,
- Employee exposure to VOC emissions during handling and processing operations,
- Specific processing technologies being used for processing activities,
- Emission control technology to ensure that appropriate technologies are being used for emissions being treated.

Traffic patterns have been planned to account for limitations in access to the facility from Independence Parkway South. The facility layout includes an employee change house and shower room within the facility confines along with the necessary sanitary facility upgrades.

Appropriate measures have been implemented according to NFPA 30 code related to fire safety and control of flammable materials. The design takes into consideration the fire protection system, including the location of a fire water storage tank, fire pump house and foam suppression utility building, as well as a firewater collection basin for capturing spent firewater and residues. The design allocates adequate resources and appropriate site arrangements for utility requirements of the facility regarding process air, process water, potable water, nitrogen, and supplied breathing air.

Furthermore, the layout of the container storage areas provide a minimum 50-foot buffer between stored containers and tanks and the property line in accordance with 40 CFR 264.176 and NFPA requirements. Further described in Sections V.B and V.C are measures for segregation of incompatible, ignitable or reactive wastes.

All site storage areas are inspected for evidence of spills, containers in poor condition, or other unsafe situations on a daily basis. If such a situation is discovered, immediate action is taken appropriate with the material and associated hazard. The LaPorte Facility has the necessary technical expertise available for evaluation and resolution of such situation, if required. Further details of site emergency procedures are provided in the Contingency Plan, Section III.E and Appendix III.E of the Part B application.

WASTE PREPARATION

The hazardous waste management units are shown on figures attached below. For purposes of identifying Hazardous Waste Management Units (HWMUs), the three container storage areas are permitted and are designated by their respective warehouse

names - Warehouse I, Warehouse II, and Warehouse III. The proposed outdoor storage area will be identified as Outdoor 033.

The two currently permitted Chemical Reactor tanks are located within Container Storage Area 1 (Warehouse I) and are shown on the Overall Facility Plan. The Cylinder Release Unit is also located within Container Storage Area 1 (Warehouse I) adjacent to the Chemical Reactor Tank area.

Two medical waste steam sterilizer treatment units/autoclaves are to be located in Container Storage Area 2 (Warehouse II). Autoclave 1 is being installed pursuant to this permit modification. Autoclave 2 is proposed to be installed at a later date.

Waste management activities onsite consist of storage, processing, and disposal operations. Final disposal of waste materials at this site includes wastes processed in the Chemical Treatment Reactor Tanks and waste gases managed in the Cylinder Release Unit. Effluent from the Chemical Treatment Reactor Tanks is shipped off-site for further treatment. Waste materials generated on site are shipped off site for final disposal. Materials can be received in tank trucks, rail cars, roll-offs containers ("roll-offs"), drums, and smaller containers. Wastes may be shipped off site in rail cars, tank trucks, roll-offs and drums. All received materials are evaluated in accordance with the facility's Waste Analysis Plan before final acceptance.

WASTEWATER AND STORMWATER MANAGEMENT

The topographic map for the facility shows the general topography for the facility. The natural topography varies 3 to 5 feet per mile as determined by the USGS 7.5-minute quadrangle map (Figure IX-1). Therefore, within 1000 feet of the facility, natural grade elevations vary less than two (2) feet except for specific drainage channels associated with the off-site roads. The natural ground surface of the facility varies in elevation from about Elevation 28 to 29 feet MSL and the ground surface is undulating. The natural grade elevations vary less than two (2) feet across the facility, so contours are not provided.

A topographic survey map of the facility is provided showing ground and pavement surface elevations. The improved areas of the facility have been built up on fill material, raising the ground surface for buildings and pavements to effectively promote drainage away from the waste management units. The developed portion of the facility is on fill material and is approximately between elevations 29 and 32 MSL. Finished floor elevations of the warehouse buildings are indicated on Figure V.A-2. The bar ditch along Independence Parkway South is approximately one (1) foot below the corresponding elevation along the fence line. Independence Parkway South is approximately two (2) feet higher than the corresponding bar ditch elevation.

Pronounced drainage paths are indicated on this topographic map and on the Overall Facility Plan. Drainage from the facility varies, depending on location. Generally, the

western half of the site drains toward the west side of the facility and flows into the ditch alongside Independence Parkway South, where it then flows under the road and drains westward toward Patrick Bayou. Drainage from the eastern half of the site drains eastward off the site and flows to a small canal which flows to the Upper San Jacinto Bay (upper Galveston Bay). Surface waters from the facility would drain northward or eastward and would not drain toward any of the land areas south of State Highway 225.

Private property within 1000 feet of the facility boundary is either commercial or industrial and is mostly north of Texas State Highway 225. Property south of S.H. 225 and within a one-mile radius of the facility boundary includes some residential areas within the City of Deer Park and City of La Porte corporate limits, along with additional commercial and light industrial properties in both cities. None of the facility's drainage would impact residential areas south of S.H. 225.

Section II.F. of this application contains a portion of the Federal Emergency Management Agency's Flood Insurance Rate Map (FIRM) for the City of La Porte, Texas. As shown, the Facility and adjacent properties are outside the 100-year and 500-year flood plain. Consequently, the flood plain is not indicated on the topographic map. Consequently, no special flood control or drainage barriers are required.

The hazardous waste management units and ancillary facilities that are permitted are contained within totally enclosed buildings which precludes collection of precipitation and prevent run-on into the containment area as required by 40 CFR 264.175(b)(4). They also have secondary containment in accordance with the other provisions of 40 CFR 264.175 to ensure that surface waters are protected from the possibility of waste contamination. Since runoff will not have come in contact with wastes, it will be directed to the storm water drains, culverts and channels for eventual off-site discharge without collection, treatment, or monitoring. Drainage features will be inspected to verify that their capacity is not inhibited by sediment or debris buildup.

To eliminate the spread of contaminants on site, all spills are promptly and completely cleaned up. The spilled material and any absorbent used are placed into appropriate containers for disposal. Areas of higher risk for spills such as waste processing or storage areas are concreted and curbed. The spill response procedures are provided in the Contingency Plan (Appendix III.E of Part B application).

The facility is designed such that if equipment fails the effects are mitigated. For example, if a tank failed the liquid would be captured in secondary containment.

FEATURES TO MITIGATE UNSUITABLE SITE CHARACTERISTICS

This facility does not lie within the 100-year flood plain. This facility is not known to overlie a regional aquifer or to be situated within a recharge zone of an aquifer. Furthermore, no portion of the facility lies within 50 feet of a known fault. Measures are

in place to provide secondary containment for all storage and processing areas, where and if needed, according to 30 TAC 335.204(a) to protect surface and ground waters against releases due to operations at the facility.

CONSTRUCTION SCHEDULE

Construction Schedule for Addition of Outdoor storage area Outdoor 033

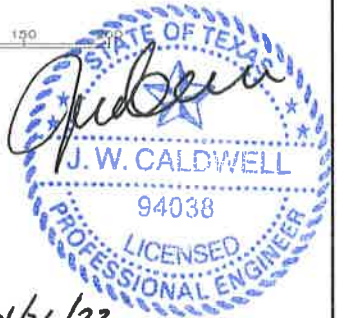
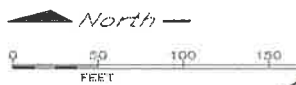
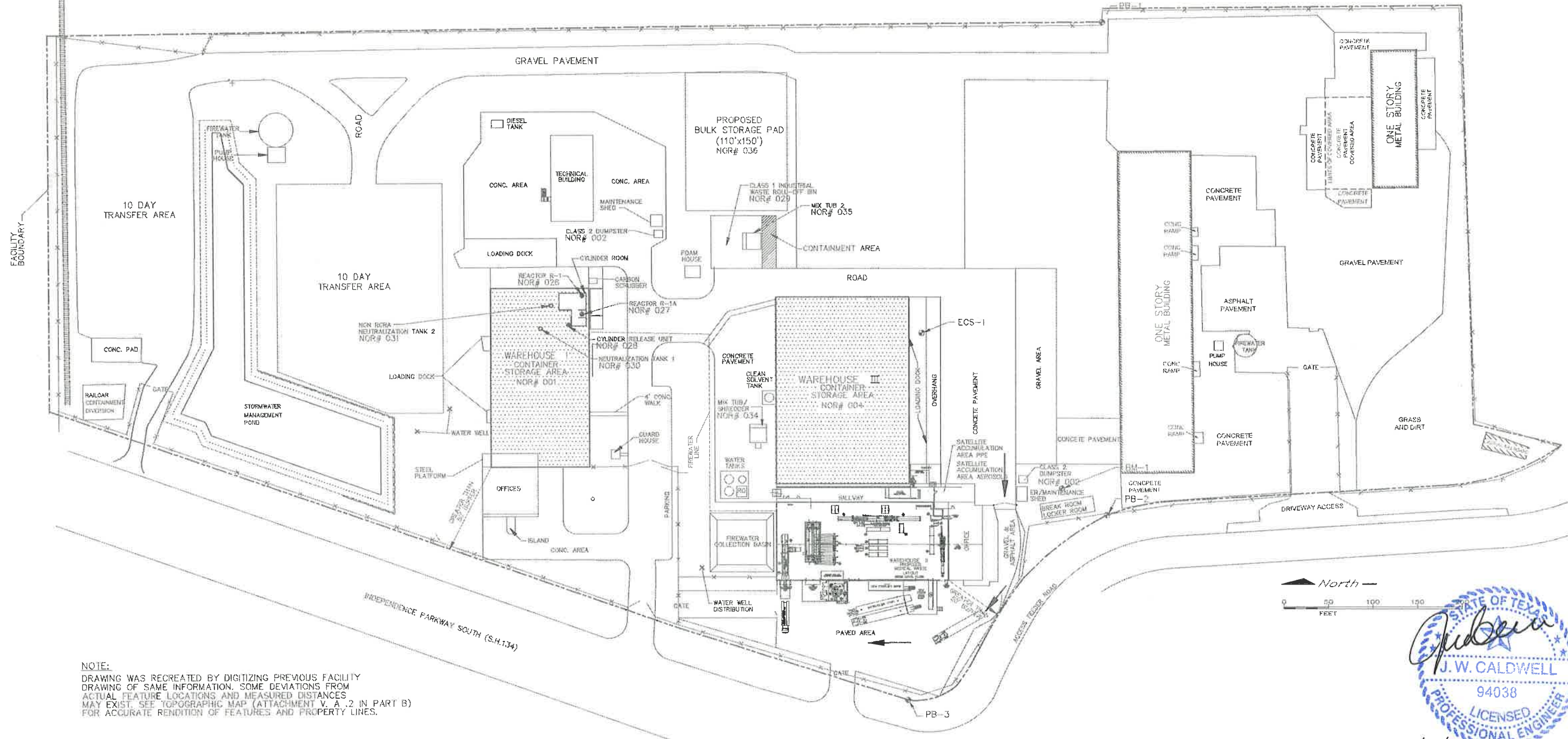
Submit specifications for unit – Approval plus 0 month

Choose contractor – Approval plus 0 months

Installation – Approval plus 2 months

Completion – Approval plus 2 months

MAPS AND DRAWINGS



NOTE:
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LEGEND	
	FACILITY PROPERTY BOUNDARY
	CHAIN LINK FENCE
	BOUNDARY OF EXISTING CONTAINER STORAGE AREAS
	DRAINAGE CHANNEL FLOWLINE AND FLOW DIRECTION

REFERENCE DRAWINGS	
TITLE	DRAWING NO.
B	PERMIT RENEWAL 2022
A	PROPOSED LAYOUT
REV.	DESCRIPTION OF ISSUE

CleanHarbors
LAPORTE

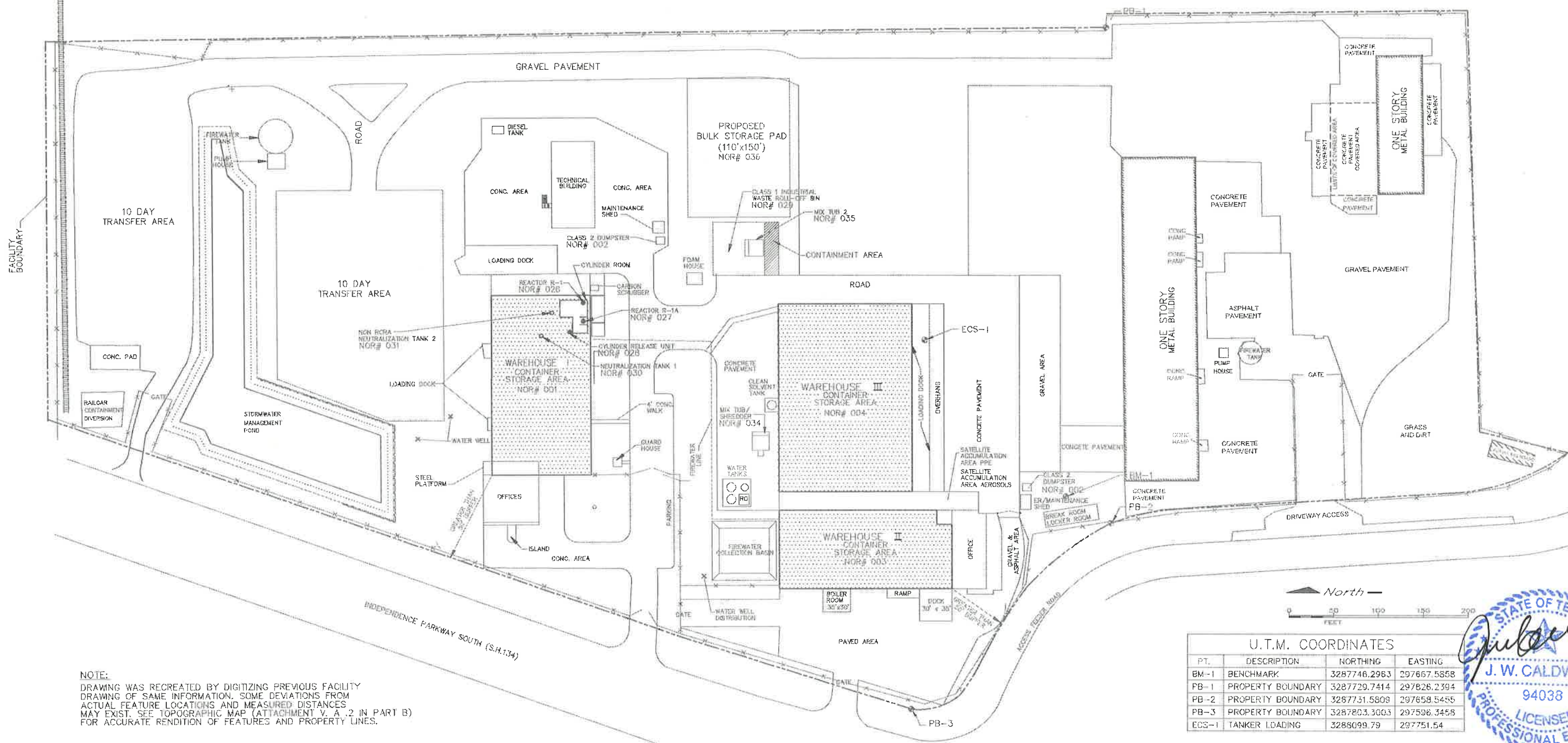
500 Independence Parkway South
LaPorte, Texas 77571
Phone: (281) 727-7800

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

APPROVED: _____ SCALE: AS NOTED DWG. NO.: 67LT-0100-006 REV. B

REV.	DESCRIPTION OF ISSUE	DATE	EXT. NO.
B	PERMIT RENEWAL 2022	1/25/22	WOS
A	PROPOSED LAYOUT	1/25/22	KMC



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U.T.M. COORDINATES			
PT.	DESCRIPTION	NORTHING	EASTING
BM-1	BENCHMARK	3287746.2963	297667.5858
PB-1	PROPERTY BOUNDARY	3287729.7414	297826.2394
PB-2	PROPERTY BOUNDARY	3287731.5809	297858.5455
PB-3	PROPERTY BOUNDARY	3287803.3003	297596.3458
ECS-1	TANKER LOADING	3288099.79	297751.54



LEGEND	
	FACILITY PROPERTY BOUNDARY
	CHAIN LINK FENCE
	BOUNDARY OF EXISTING CONTAINER STORAGE AREAS
	DRAINAGE CHANNEL FLOWLINE AND FLOW DIRECTION

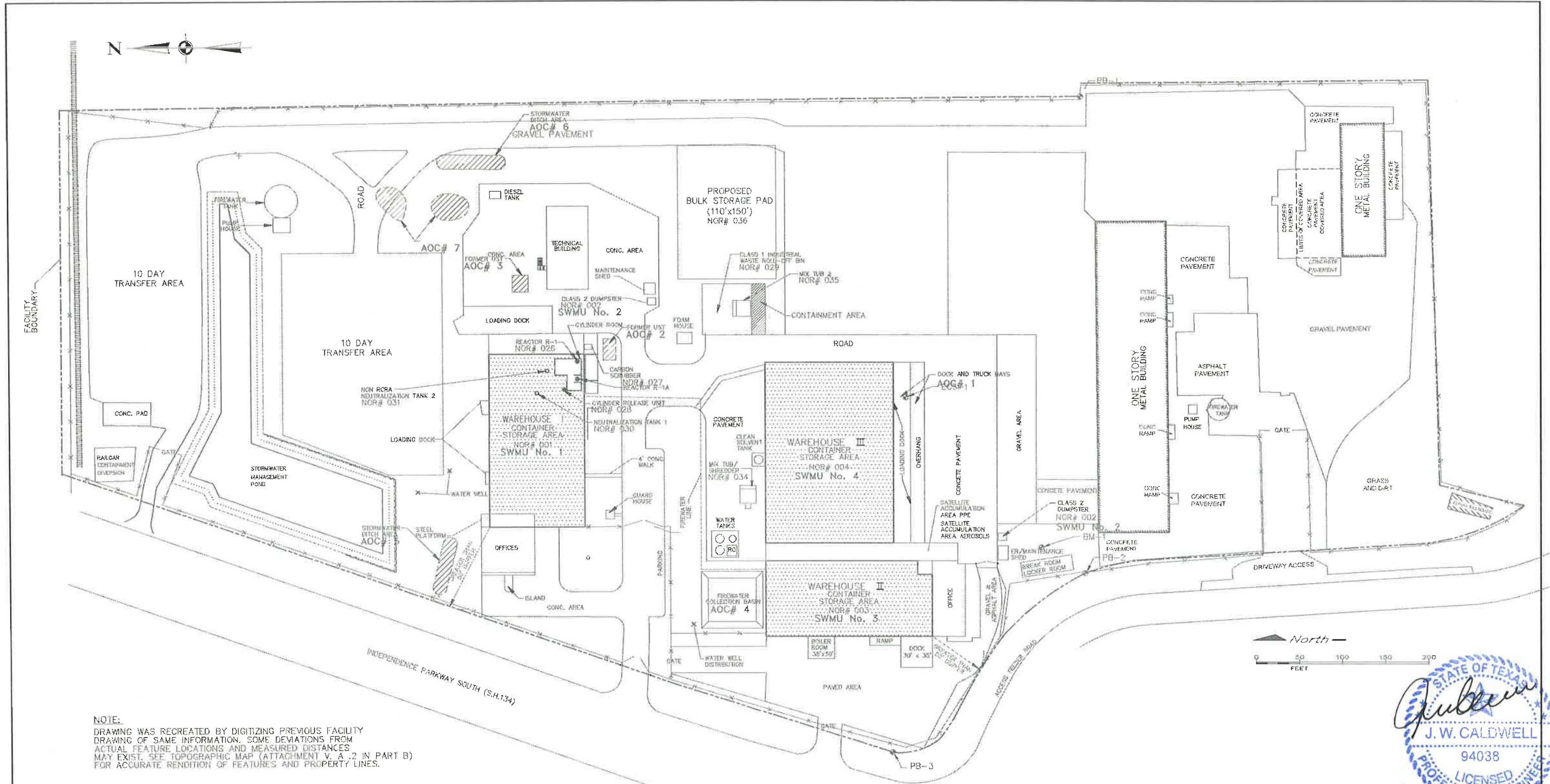
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D	PERMIT RENEWAL 2020
C	REMOVED "PROPOSED" NOR# 032
B	REMOVED "PROPOSED" FROM NOR# 030, ADDED NOR# 029 & NOR# 031
A	FOR PERMIT RENEWAL

REV.	DESCRIPTION OF CHANGE	BY	CHECKED	DATE	REV.
E	PERMIT RENEWAL 2022	WDS		1/21/22	
D	PERMIT RENEWAL 2020	KMG		5/7/20	
C	REMOVED "PROPOSED" NOR# 032	KMG		8/10/12	
B	REMOVED "PROPOSED" FROM NOR# 030, ADDED NOR# 029 & NOR# 031	KMG		12/28/08	
A	FOR PERMIT RENEWAL	KMG		7/30/09	



APPROVED:				SCALE:	DWG. NO.:	REV.
[Signature]				AS NOTED	87LT-1000-001	E

TITLE: PLOT PLAN
FILE: 87LT-1000-001



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LEGEND

	FACILITY PROPERTY BOUNDARY
	CHAIN LINK FENCE
	BOUNDARY OF EXISTING CONTAINER STORAGE AREAS
	DRAINAGE CHANNEL FLOWLINE AND FLOW DIRECTION

REFERENCE DRAWINGS

TITLE	DRAWING NO.

REV.	DESCRIPTION OF CHANGE	BY	DESIGNED	CONSULTED	APPROVED	DATE	CTL. NO.
D	PERMIT RENEWAL 2022	WDS				1/25/22	
C	PERMIT RENEWAL 2020	KMC				5/7/20	
B	ADDED NCR# 029, NOR# 030, NOR# 031 & AOC# 4	KMC				12/29/09	
A	FOR PERMIT RENEWAL	KMC				MAR 7/30/09	

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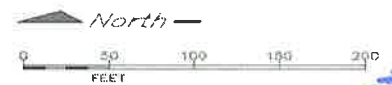
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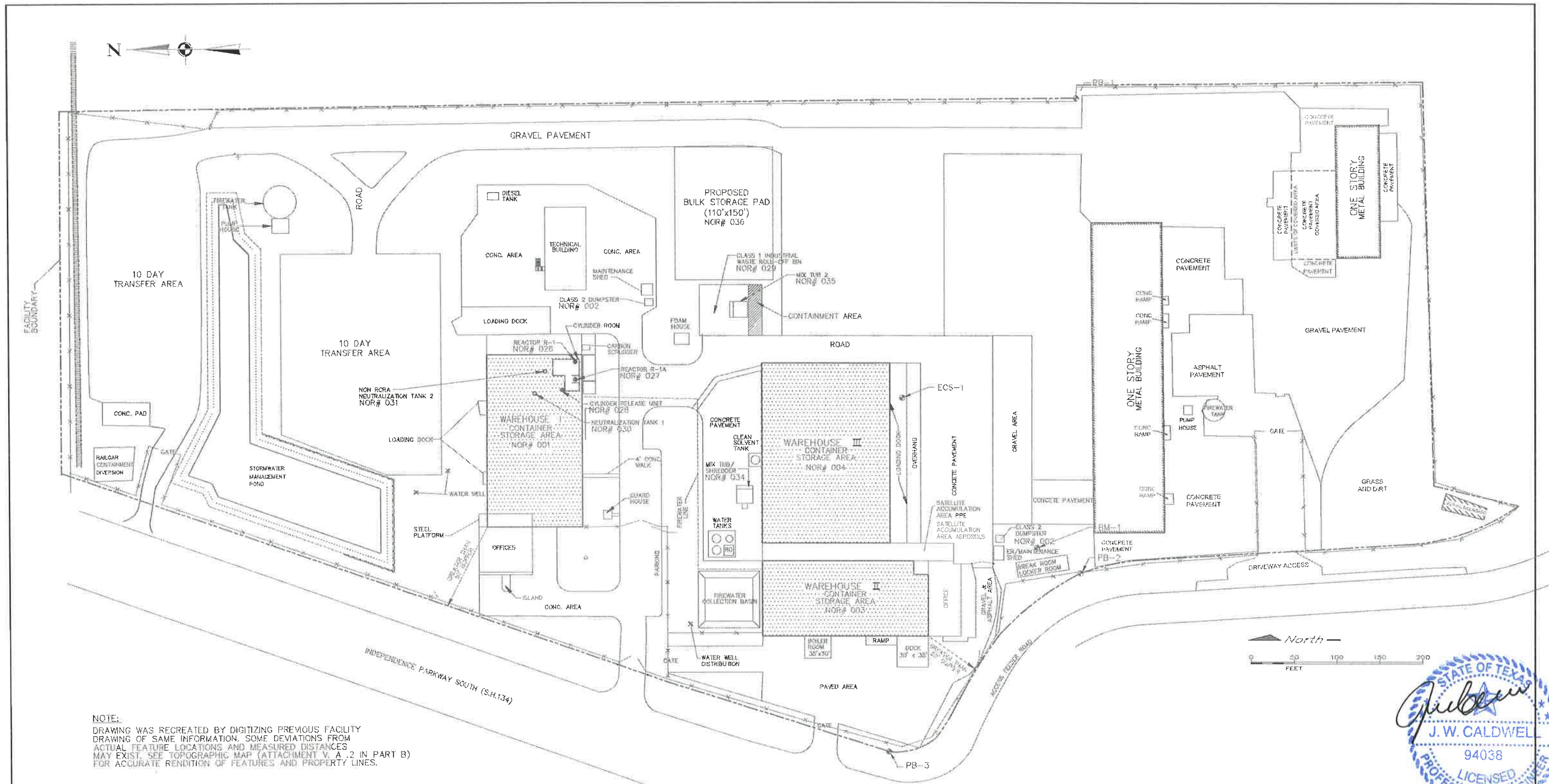
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FILE: 67LT-1000-004

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LEGEND

- FACILITY PROPERTY BOUNDARY
- x-x- CHAIN LINK FENCE
- - - BOUNDARY OF EXISTING CONTAINER STORAGE AREAS
- > DRAINAGE CHANNEL FLOWLINE AND FLOW DIRECTION

REFERENCE DRAWINGS		NO.	DESCRIPTION OF ISSUE	DATE	REV.
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		12	PERMIT RENEWAL 2020	5/7/20	
		11	ADDED NOR#54 & NOR#35	2/20/17	
		10	CLASS I MODIFICATION	3/21/14	
		9	FENCE LINE MODIFICATION	10/8/13	
		8	CLASS II MODIFICATION	2/15/13	
		7	REMOVED "PROPOSED NOR# 032"	8/10/12	
		6	REMOVED "PROPOSED" FROM NOR# 030, ADDED NOR# 029 & NOR# 031	12/29/06	

North

0 50 100 150 200 FEET

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 94038
 LICENSED PROFESSIONAL ENGINEER

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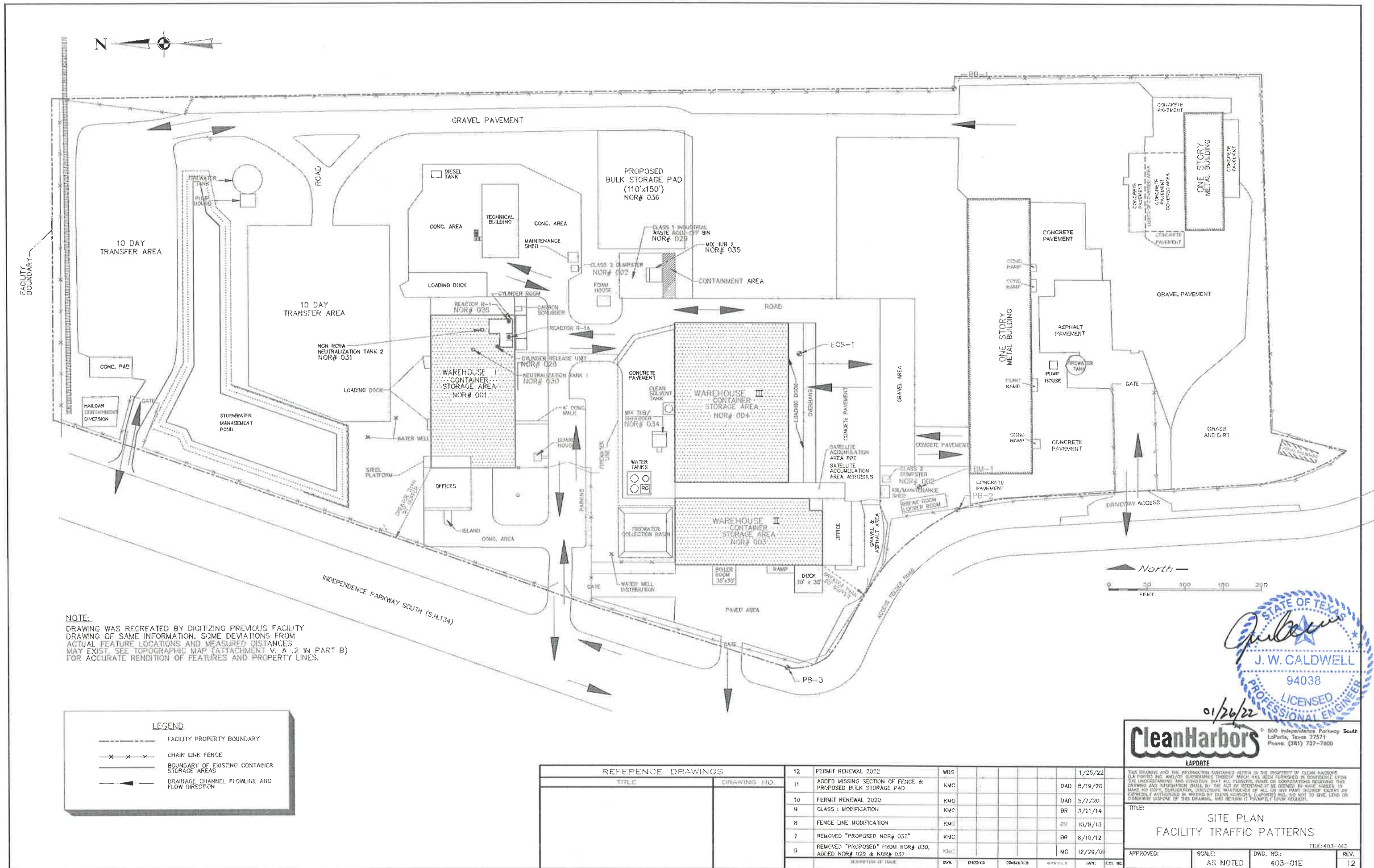
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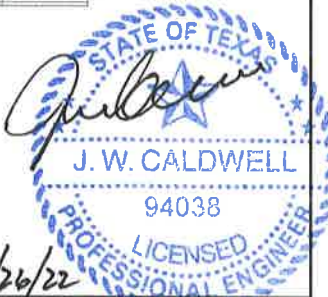
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FILE: 403-01A

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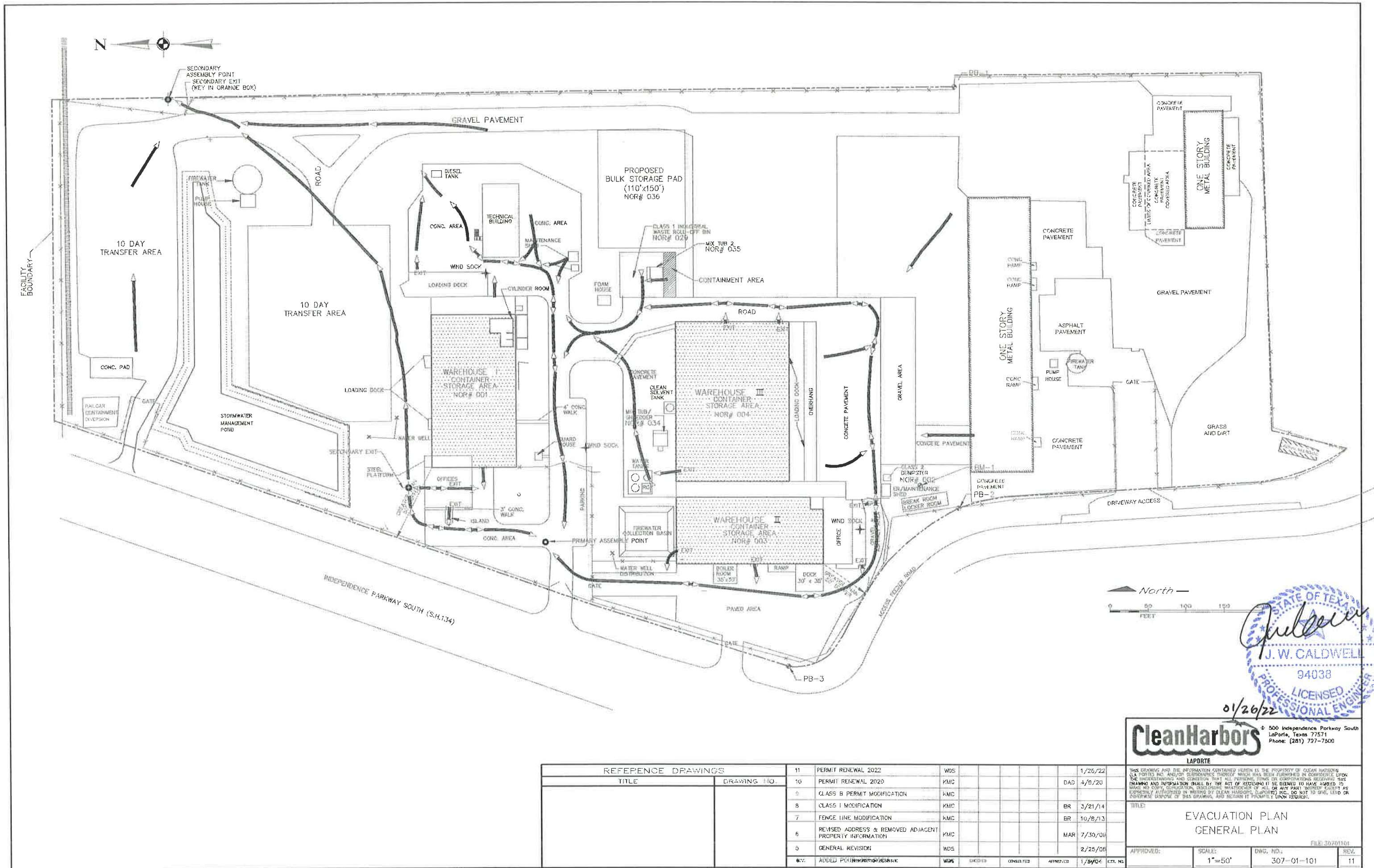
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REFERENCE DRAWINGS		NO.	DESCRIPTION OF DRAWING	DATE	REV.
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		11	ADDED MISSING SECTION OF FENCE & PROPOSED BULK STORAGE PAD	8/19/20	DAD
		10	PERMIT RENEWAL 2020	5/7/20	DAD
		9	CLASS 1 MODIFICATION	3/21/14	BR
		8	FENCE LINE MODIFICATION	10/8/13	BR
		7	REMOVED "PROPOSED NOR# 032"	8/10/12	BR
		6	REMOVED "PROPOSED" FROM NOR# 030, ADDED NOR# 028 & NOR# 031	12/28/09	MC

TITLE: SITE PLAN FACILITY TRAFFIC PATTERNS			
APPROVED: 	SCALE: AS NOTED	DWG. NO.: 403-01E	REV.: 12



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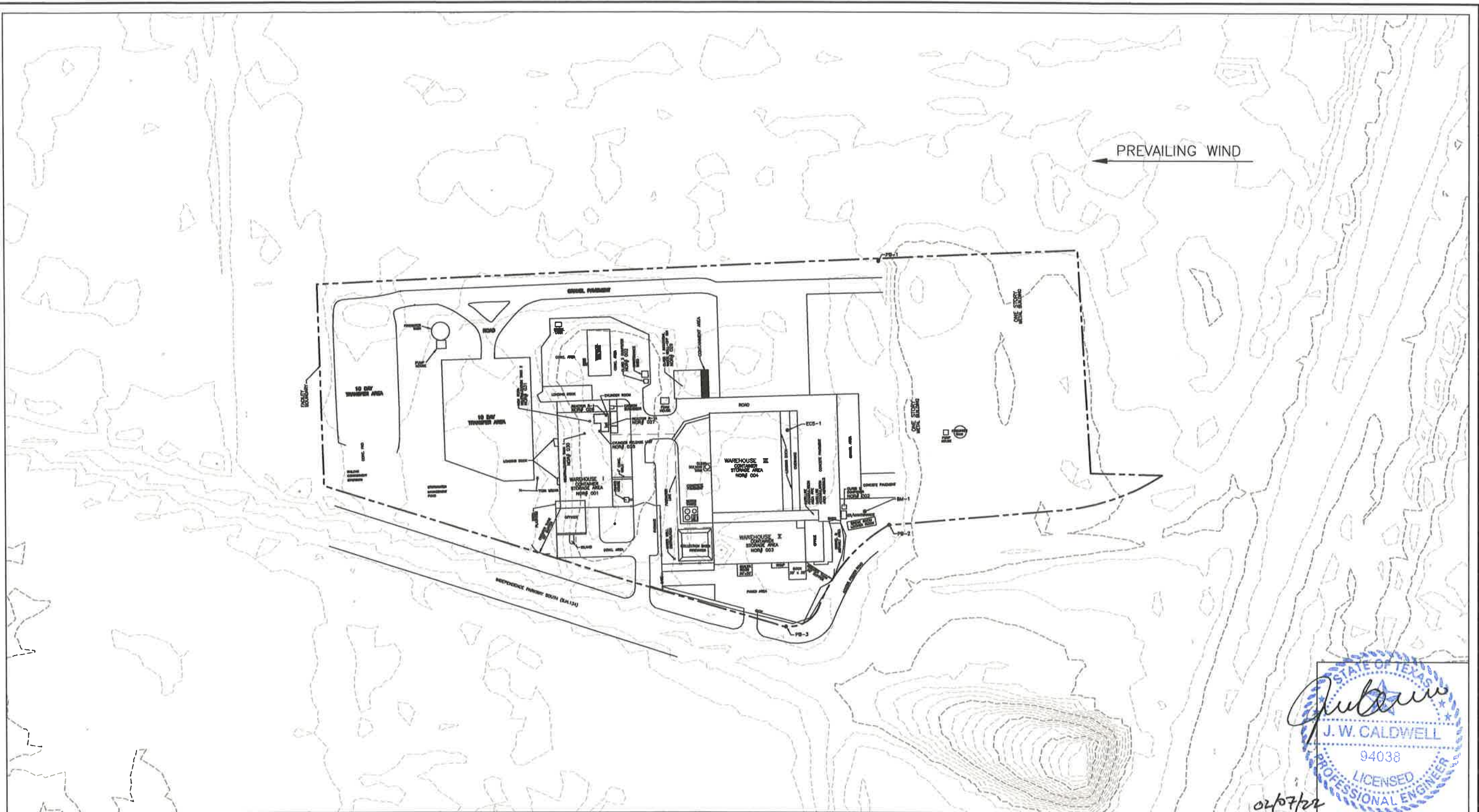
01/26/22

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REFERENCE DRAWINGS					
TITLE	DRAWING NO.				
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	10	PERMIT RENEWAL 2020	KHC		DAD 4/9/20
	9	CLASS B PERMIT MODIFICATION	KMC		
	8	CLASS I MODIFICATION	KMC		BR 3/21/14
	7	FENCE LINE MODIFICATION	KMC		BR 10/8/13
	6	REVISED ADDRESS & REMOVED ADJACENT PROPERTY INFORMATION	KMC		MAR 7/30/09
	5	GENERAL REVISION	WDS		2/25/08
	4	ADDED POINTS TO EXISTING	WDS		1/24/06

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TITLE: EVACUATION PLAN GENERAL PLAN			
APPROVED:	SCALE: 1"=50'	DWG. NO.: 307-01-101	REV. 11

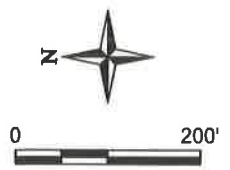
\\TRIHYDRO.COM\CLIENTS\CTO\LA PORTE\CADD\CORRIGES\69V-NRCS_TOPO-LAPORT - 11X17



J. W. Caldwell
 STATE OF TEXAS
 J. W. CALDWELL
 94038
 LICENSED
 PROFESSIONAL ENGINEER
 02/07/22

EXPLANATION

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



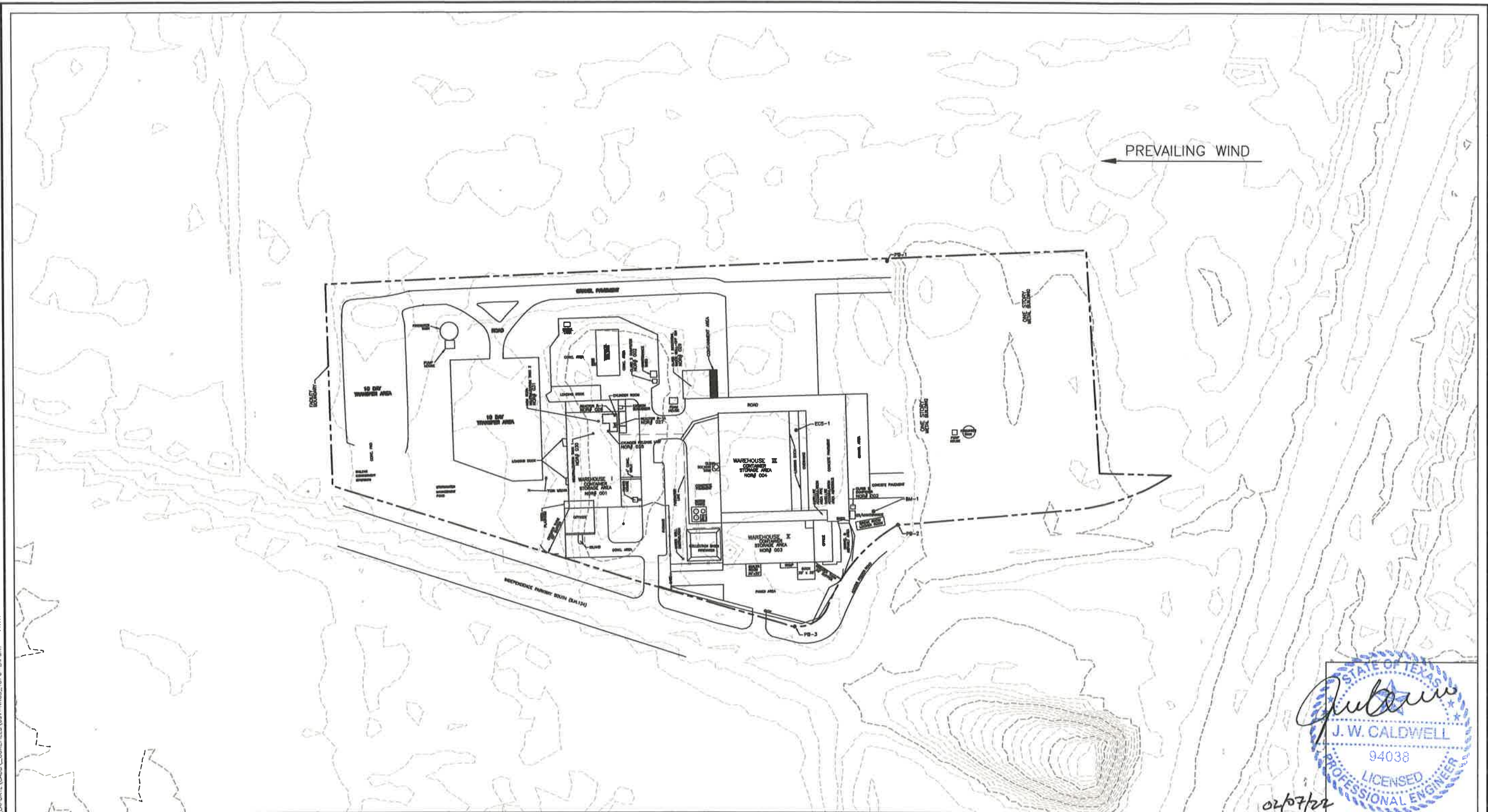
Trihydro
 CORPORATION
 1252 Commerce Drive
 Laramie, Wyoming 82070
 www.trihydro.com
 (P) 307/745.7474 (F) 307/745.7728

FIGURE V.A.5

OVERALL FACILITY + 1000 FEET




CLEAN HARBORS LA PORTE, LLC
LA PORTE, TEXAS

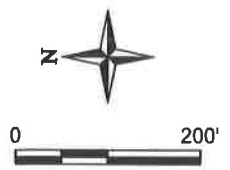
\\TRIHYDRO.COM\CLIENTS\CTO\LA PORTE\CADD\CORRIGES\69V-NRCS_TOPO-LAPORT - 11X17



J. W. Caldwell
 STATE OF TEXAS
 J. W. CALDWELL
 94038
 LICENSED PROFESSIONAL ENGINEER
 02/07/22

EXPLANATION

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

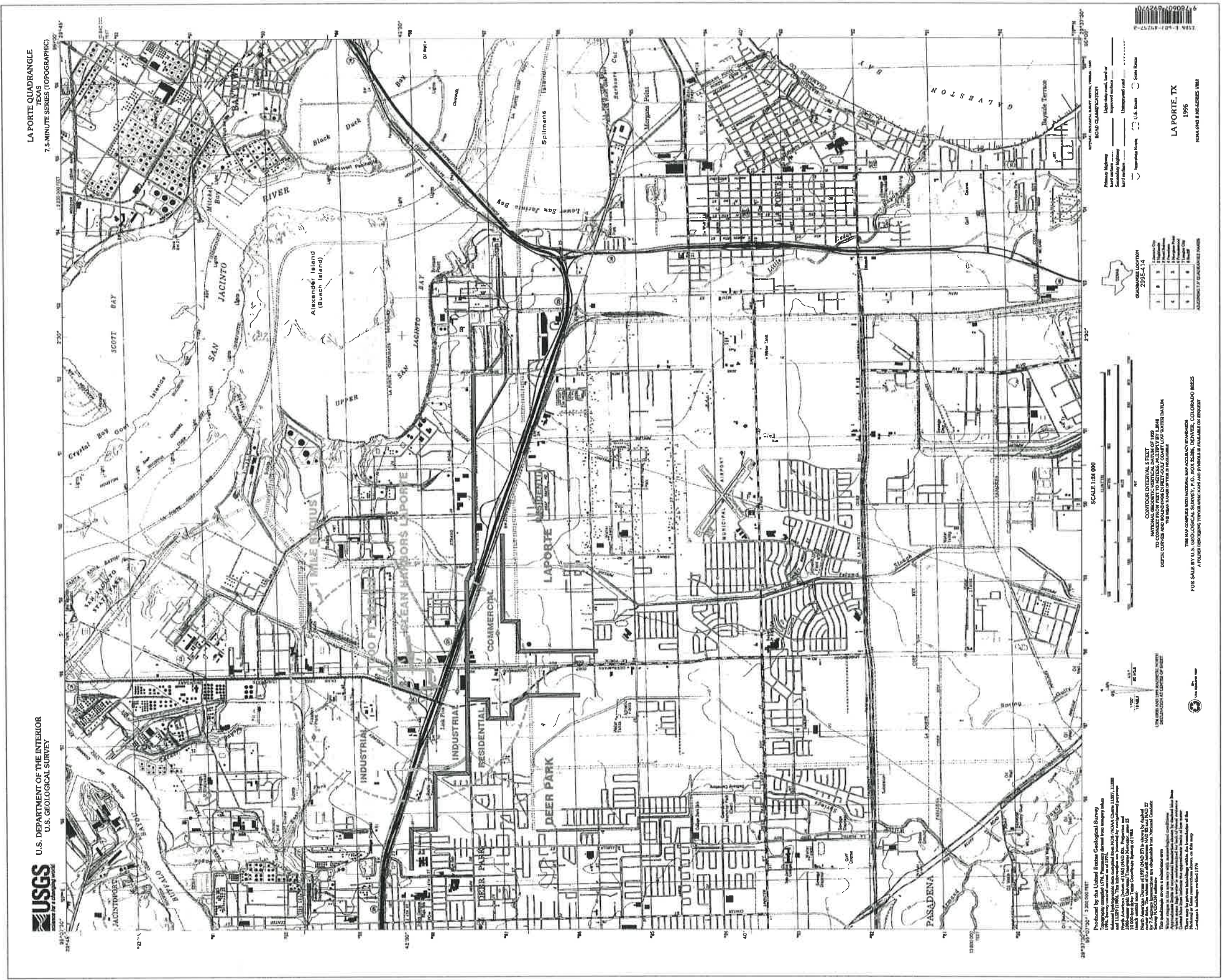


Trihydro
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 1252 Commerce Drive
 Laramie, Wyoming 82070
 www.trihydro.com
 (P) 307/745.7474 (F) 307/745.7728

FIGURE V.A.5

OVERALL FACILITY + 1000 FEET

CLEAN HARBORS LA PORTE, LLC
LA PORTE, TEXAS



- ⬇ OFFSITE WATER WELLS
- ON SITE WATER WELLS

REFERENCE DRAWINGS		C PERMIT RENEWAL 2022		WDS 1/26/22	SCALE NOTED	DATE 7/30/09	TITLE CLEAN HARBORS LAPORTE REGIONAL FACILITY MAP	67LT-1000-003
REV.	DESCRIPTION	DATE	BY	DATE	BY	DATE	DRAWING NO. 67LT-1000-003	REV. C

Clean Harbors
DEER PARK, LP

OWNER: CLEAN HARBORS DEER PARK, LP
PROJECT: PERMIT RENEWAL 2022

HOU Jan-Dec 1984-92

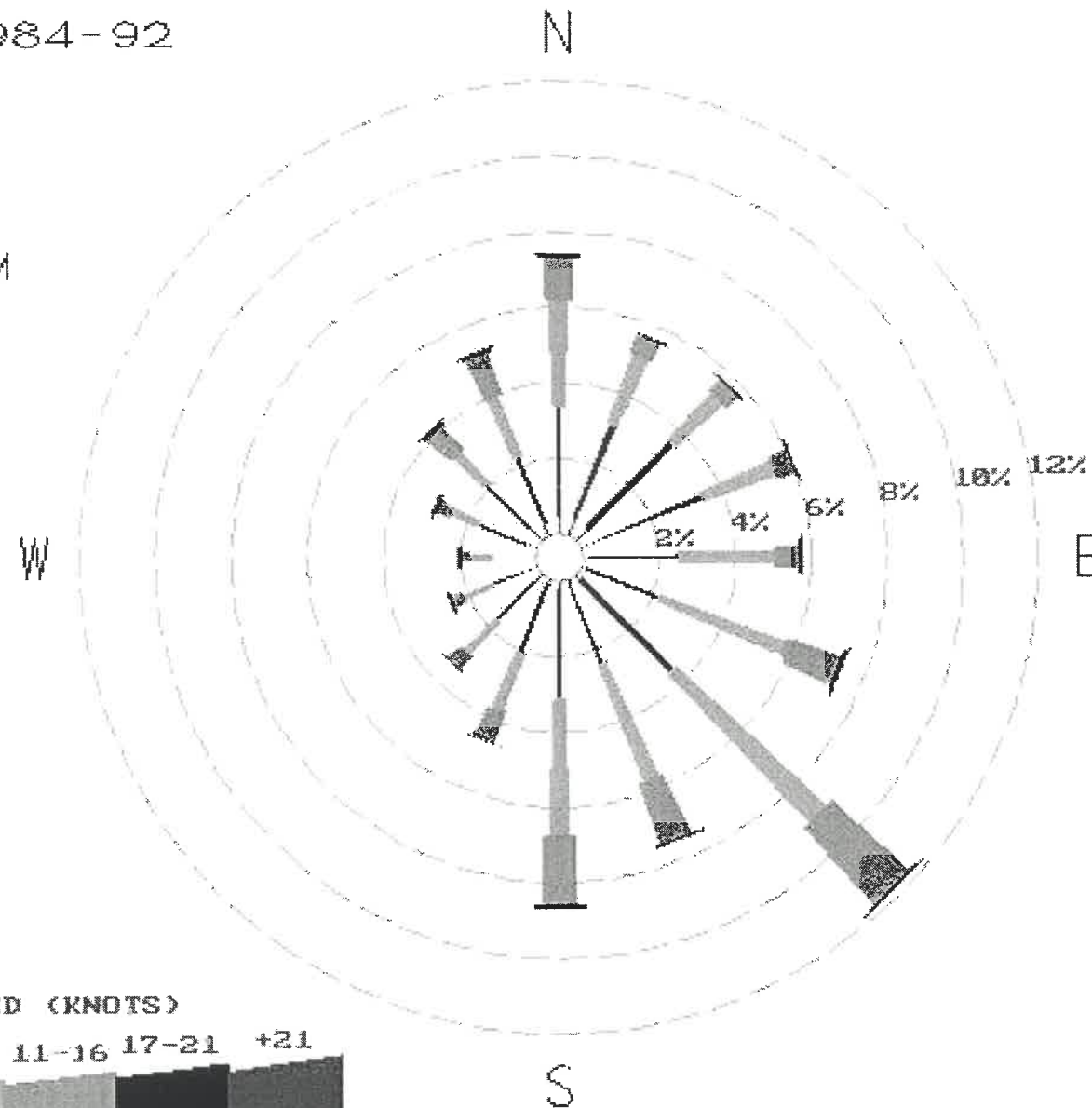
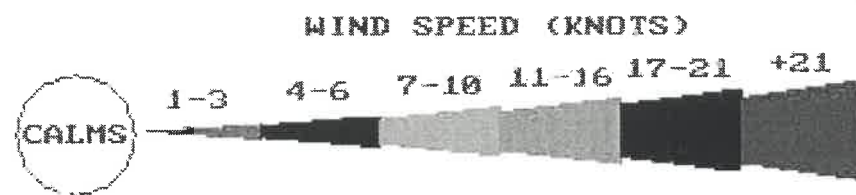
January 1

December 31

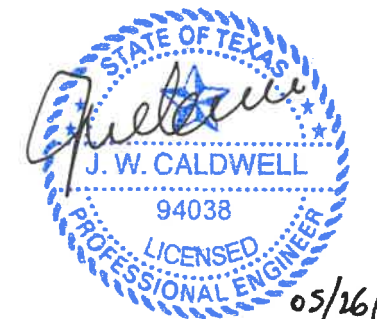
Midnight-11 PM

NOTE: Frequencies indicate direction from which the wind is blowing.

CALM WINDS 9.18%



Prevailing Wind Direction - Wind Rose



A	MSW TYPE V REGISTRATION	KMC	6/1/10	S.B.
REV.	DESCRIPTION	DRAWN BY	DATE	APPR. BY
TITLE CLEAN HARBORS LAPORTE FACILITY WIND ROSE				
DRAWING NO. FIGURE II - C1				REV. A

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DRAWN	CHECKED	SCALE	DATE
K.M.C.	S.B.	AS NOTED	05/18/10

Table V.A. - Facility Waste Management Handling Units

TCEQ Permit Unit No. ¹	Unit Name	NOR No. ¹	Unit Description ³	Capacity	Unit Status ²
1	Container Storage Area I (Warehouse I)	001	202' x 109' covered storage area	403,960	Active
2	Container Storage Area II (Warehouse II)	003	188' x 76' covered storage area	264,970	Active
3	Container Storage Area III (Warehouse III)	004	209' x 142' covered storage area	395, 340	Active
4	Tank VS-593-1001	005	Storage Tank	22,500	Never Built and No Longer Permitted
5	Tank VS-593-1002	006	Storage Tank	22,500	Never Built and No Longer Permitted
6	Tank VS-593-2001	007	Storage Tank	22,500	Never Built and No Longer Permitted
7	Tank VS-593-2002	008	Storage Tank	22,500	Never Built and No Longer Permitted
8	Tank VS-593-2003	009	Storage Tank	22,500	Never Built and No Longer Permitted
9	Tank VS-593-2004	010	Storage Tank	22,500	Never Built and No Longer Permitted

TCEQ Permit Unit No. ¹	Unit Name	NOR No. ¹	Unit Description ³	Capacity	Unit Status ²
10	Tank VS-593-2005	011	Storage Tank	22,500	Never Built and No Longer Permitted
11	Tank VS-593-3001	012	Storage Tank	22,500	Never Built and No Longer Permitted
12	Tank VS-593-3002	013	Storage Tank	22,500	Never Built and No Longer Permitted
13	Tank VS-593-3003	014	Storage Tank	22,500	Never Built and No Longer Permitted
14	Tank VS-593-2101	015	Storage Tank	1,300	Never Built and No Longer Permitted
15	Tank VS-593-3101	016	Processing Tank	1,300	Never Built and No Longer Permitted
16	Tank VS-593-2006	017	Storage Tank	8,500	Never Built and No Longer Permitted
17	Tank VS-593-2007	018	Storage Tank	8,500	Never Built and No Longer Permitted
18	Tank VS-593-3004	019	Storage Tank	8,500	Never Built and No Longer Permitted
19	Tank VS-593-3005	020	Storage Tank	8,500	Never Built and No Longer Permitted
20	Tank VS-593-6101	021	Processing Tank	100	Never Built and No Longer Permitted

TCEQ Permit Unit No. ¹	Unit Name	NOR No. ¹	Unit Description ³	Capacity	Unit Status ²
21	Tank VS-593-4001	022	Storage Tank	5,100	Never Built and No Longer Permitted
22	Solids Shredder & Compactor	023	Miscellaneous Unit	To Be Determined	Never Built and No Longer Permitted
23	Drum Washer	024	Miscellaneous Unit	To Be Determined	Never Built and No Longer Permitted
24	Chemical Reactor Tank R-1	026	Processing Tank located inside Warehouse I	500	Active
25	Chemical Reactor Tank R-1A	027	Processing Tank located inside Warehouse I (Replacement Processing Tank to be located inside Warehouse I)	500 (Proposed 1,500)	Active (Never Built and No Longer Permitted)
26	Cylinder Release Unit	028	Miscellaneous Unit, located inside Warehouse I	N.A.	Active
28	Cylinder Release Unit 2	032	Miscellaneous Unit, located inside Warehouse III	N.A.	Never Built and No Longer Permitted
033	Bulk Container Storage Area	036	Bulk Outdoor Container Storage Area	181,777 (28 roll-off boxes)	Proposed
038	Autoclave 1		Regulated Medical Waste steam sterilizer	6,000 lbs/cycle	Active
039	Autoclave 2		Regulated Medical Waste steam sterilizer	6,000 lbs/cycle	Proposed

1. Permitted Unit No. and NOR No. cannot be reassigned to new units or used more than once and all units that were in the Attachment D of a previously issued permit must be listed.

2. Unit Status options: Active, Closed, Inactive (built but not managing waste), Proposed (not yet built), Never Built, Transferred, Post-Closure.

3. If a unit has been transferred, the applicant should indicate which facility/permit it has been transferred to in the Unit Description column of Table V.A.

Professional Engineer Certification

Container Storage Area 2 (Warehouse II) is a 14,288 ft² 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.

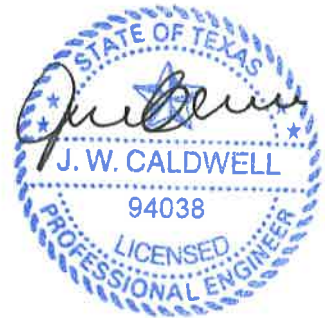
Certification

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 J. W. Caldwell

Date February 7, 2022

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

<u>Group</u>	<u>Group</u>
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

Warehouse II Roll Over Curb Containment capacity = 4 curbs $\times \frac{1}{2} \times (6/12)' \times 6' \times 14' \times 7.48$ gal./c.f. = 628 rounded up to 700 gallons.

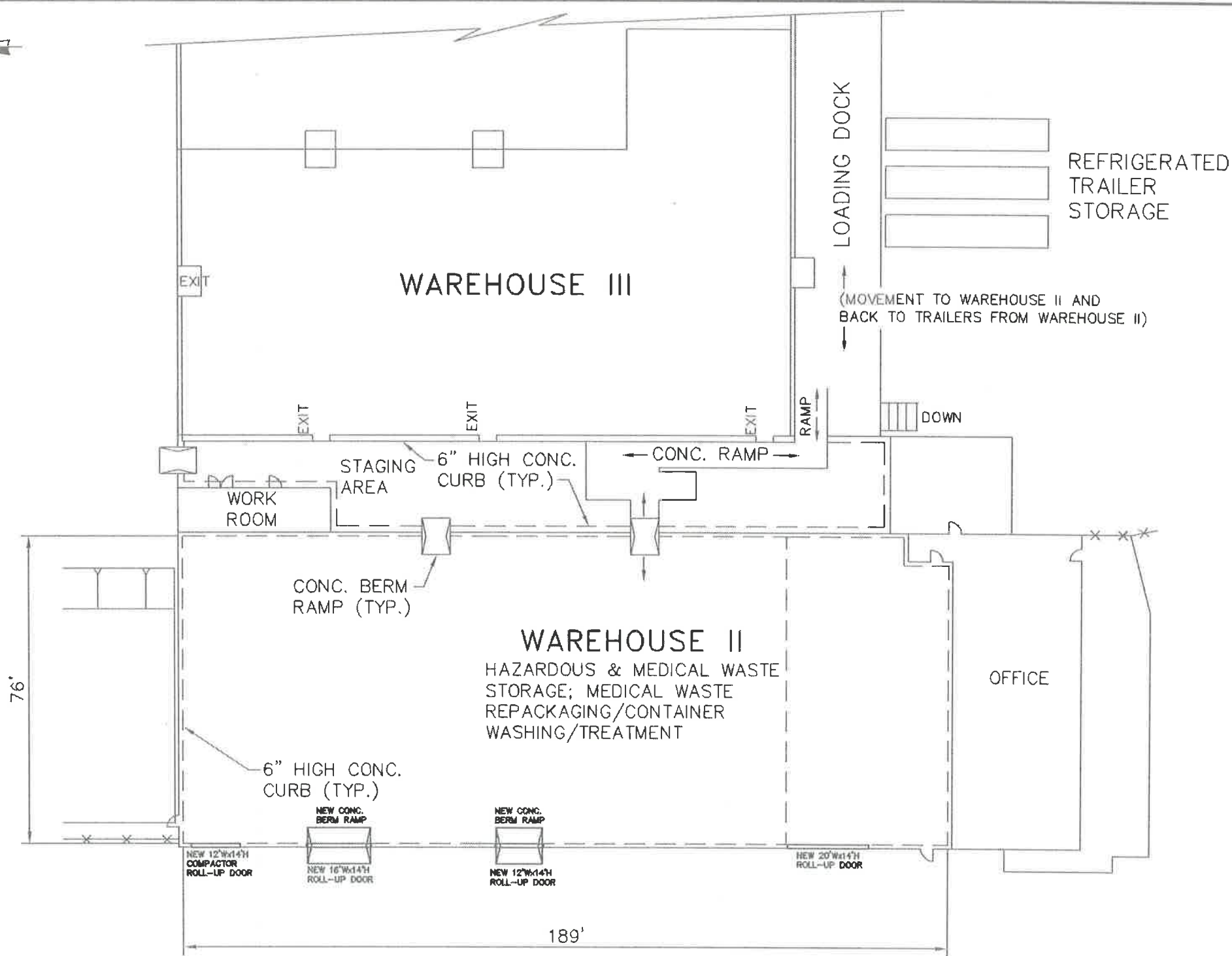
Total Warehouse II containment = $48,000 + 1,500 + 8,500 - 700 = 57,300$ gallons

Storage capacity = $10 \times$ containment capacity = 573,000 gallons

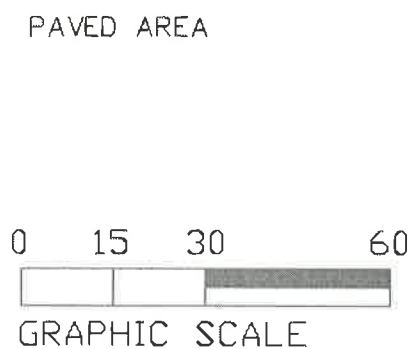
Maximum to be stored = 264,970 gallons

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.



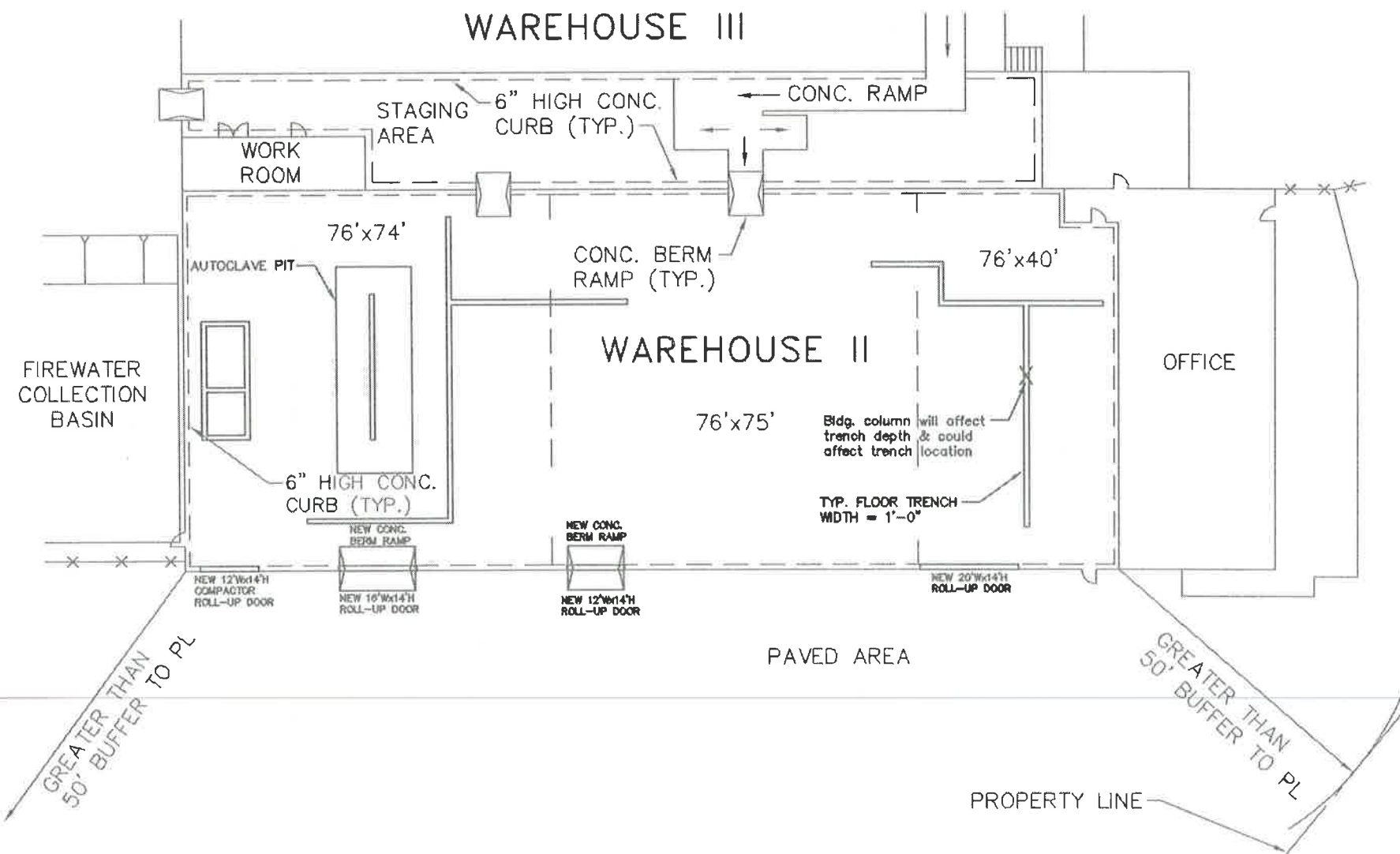
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C	PERMIT RENEWAL 2020	KMC	5/7/20	DAD
B	APRIL 2012	KMC	4/18/12	MC
A	FOR REGISTRATION	KMC	7/30/09	MAR

TITLE

**CLEAN HARBORS LAPORTE
WAREHOUSE II
TRANSFER AREA**

DRAWN	CHECKED	SCALE	DATE	DRAWING NO.	REV.
K.M.C.	W.J.C.	1" = 30'	04/21/10	67LT-7200-502	D

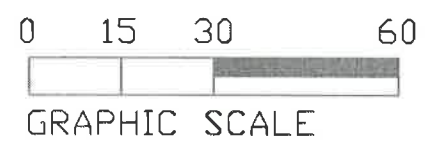
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NOTE:
 DIMENSIONS ARE APPROXIMATE AND REPRESENT DISTANCE BETWEEN CURBS OF SECONDARY CONTAINMENT SYSTEM. ALL AREAS ESSENTIALLY FLAT.



PROPERTY LINE



REV.	DESCRIPTION	DRAWN BY	DATE	APPR. BY
E	ADDED ROLL-UP DOORS & RAMPS	KMC	1/6/22	W.J.C.
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.	67LT-7200-501
REV.	E

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 February 7, 2022



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 know 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 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 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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12.1 Tie-in List

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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 μ 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

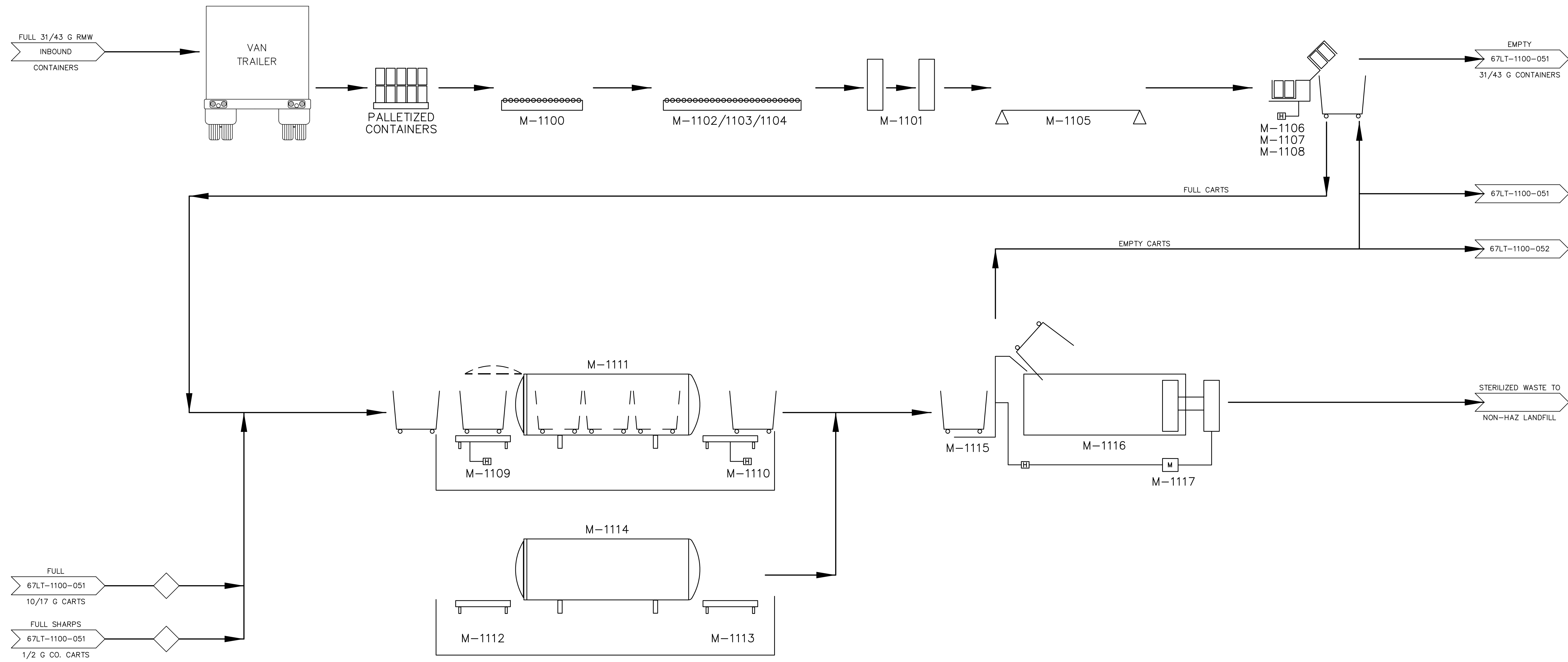
M-1109/1110/1112/1113
HYDRAULIC BRIDGES
CARBON STEEL, PROVIDED BY
AUTOCLAVE ?-----

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

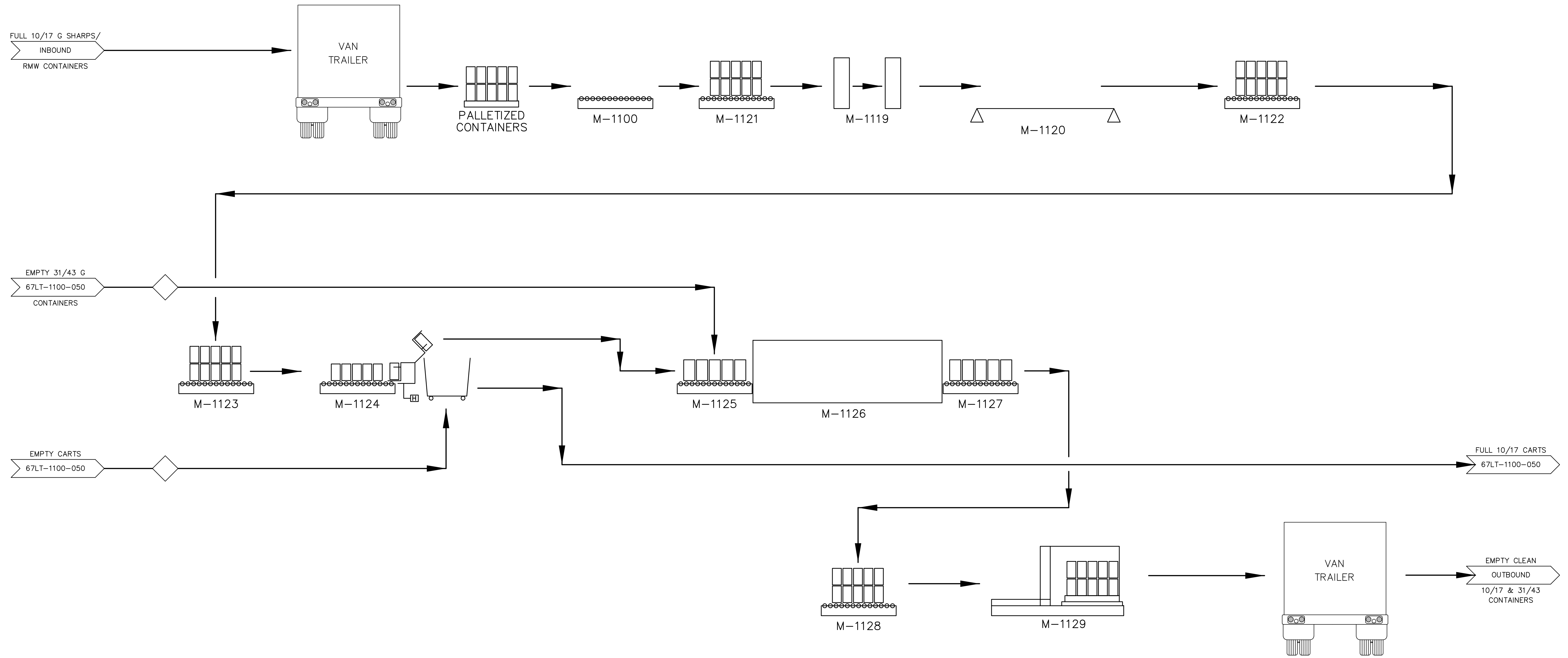


STREAM NO.	◇	◇	◇	◇	◇	◇	◇	◇	◇
STREAM NAME									
TEMPERATURE, °F									
PRESSURE, psig									
CONTINUOUS/BATCH									

MODIFIED LAST ON 8-23-21

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

- 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.		
				K.M.C.	J.W.C.	NONE	08/10/21	67LT-1100-051	A	

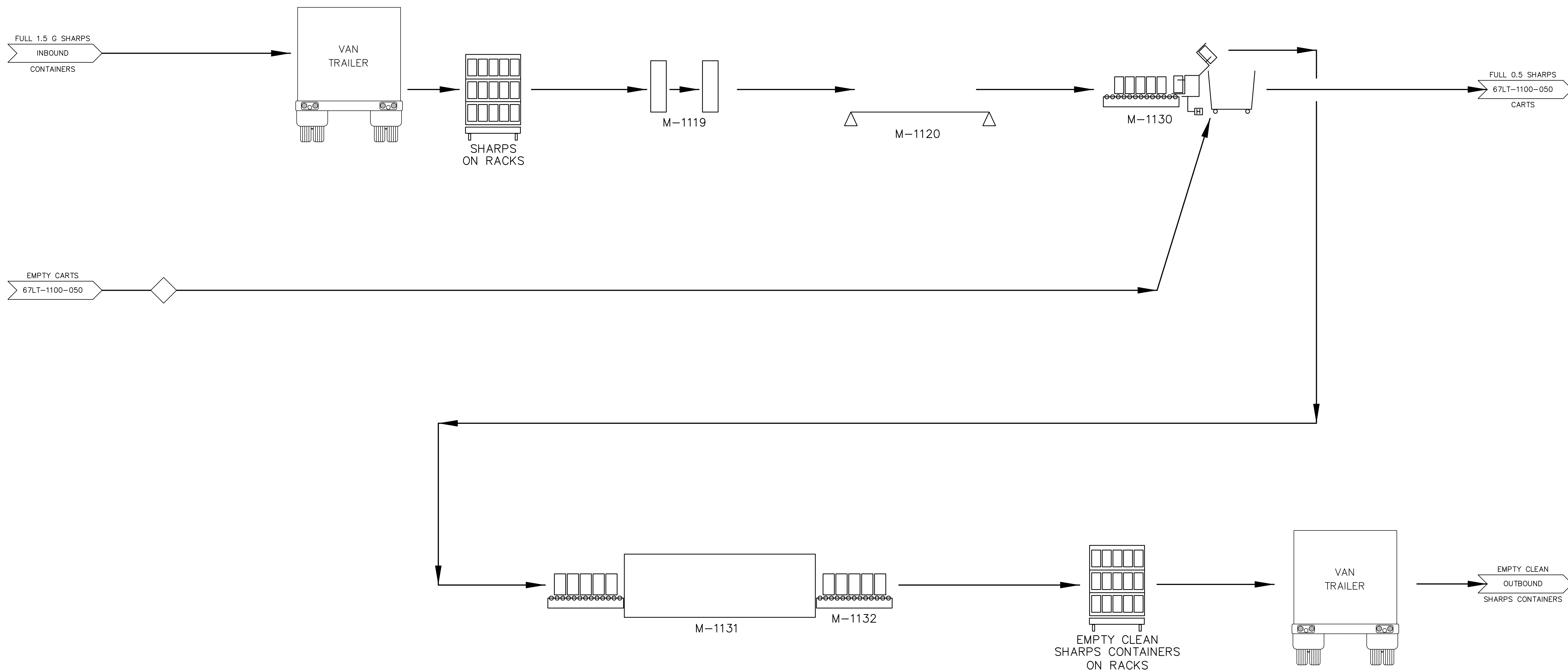
M-1119
RADIATION DETECTOR
ALSO USED FOR 10/17
400 cps PER uR/h
120 V, PLASTIC

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.

Project:	Medical Waste Project
Area:	1100
Location:	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	

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

TABLE 1 – ELECTRICAL REQUIREMENTS			
Equip. No.	Description	Est. HP	Electrical Service
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.

M-9907
CHEMICAL FEED PACKAGE
GAL. CAPACITY
AGITATOR
CARBON STEEL

M-9908
WATER SOFTENER PACKAGE
49 GAL. CAPACITY

T-9301
REVERSE OSMOSIS FEED TANK
10,000 GAL. CAPACITY
24 HOUR HOLDING
" DIA. x " HIGH
CARBON STEEL

P-9302
REVERSE OSMOSIS FEED PUMP
10 GPM, 60 psig, _HP
CARBON STEEL

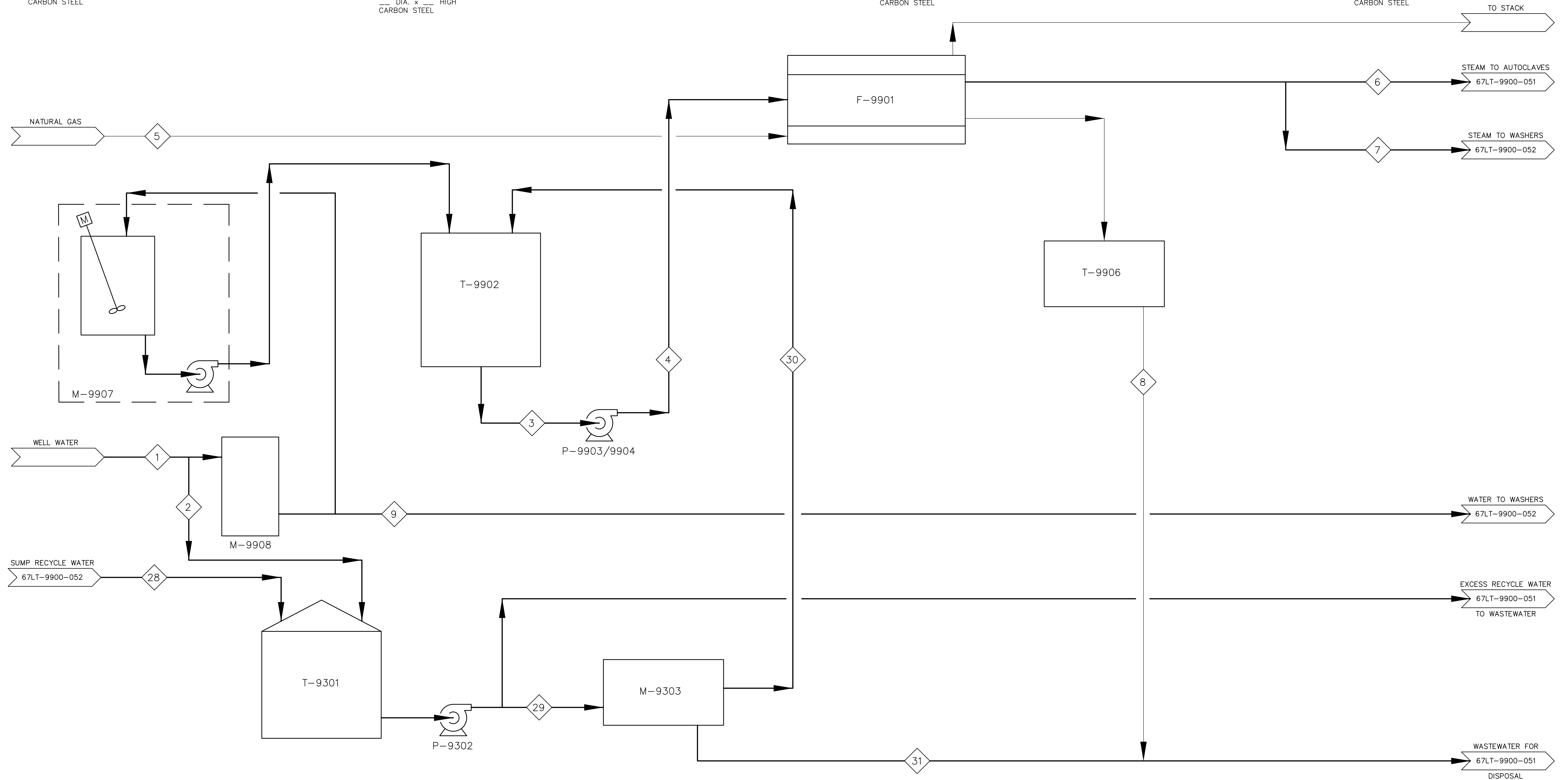
M-9303
REVERSE OSMOSIS SYSTEM
10 GPM, 80% RECOVERY
MEMBRANE

T-9902
BOILER FEED WATER TANK
" GAL. CAPACITY, ATMOSPHERIC
" DIA. x " HIGH
CARBON STEEL

F-9901
STEAM BOILER
150 bhp, 150 psig STEAM
NATURAL GAS FIRED

P-9903/9904
BOILER FEED WATER PUMPS
8 GPM, 150 psig, _HP
CARBON STEEL

T-9906
BLOWDOWN TANK
" GAL. CAPACITY, 360F, 150 psig
" DIA. x " HIGH
CARBON STEEL



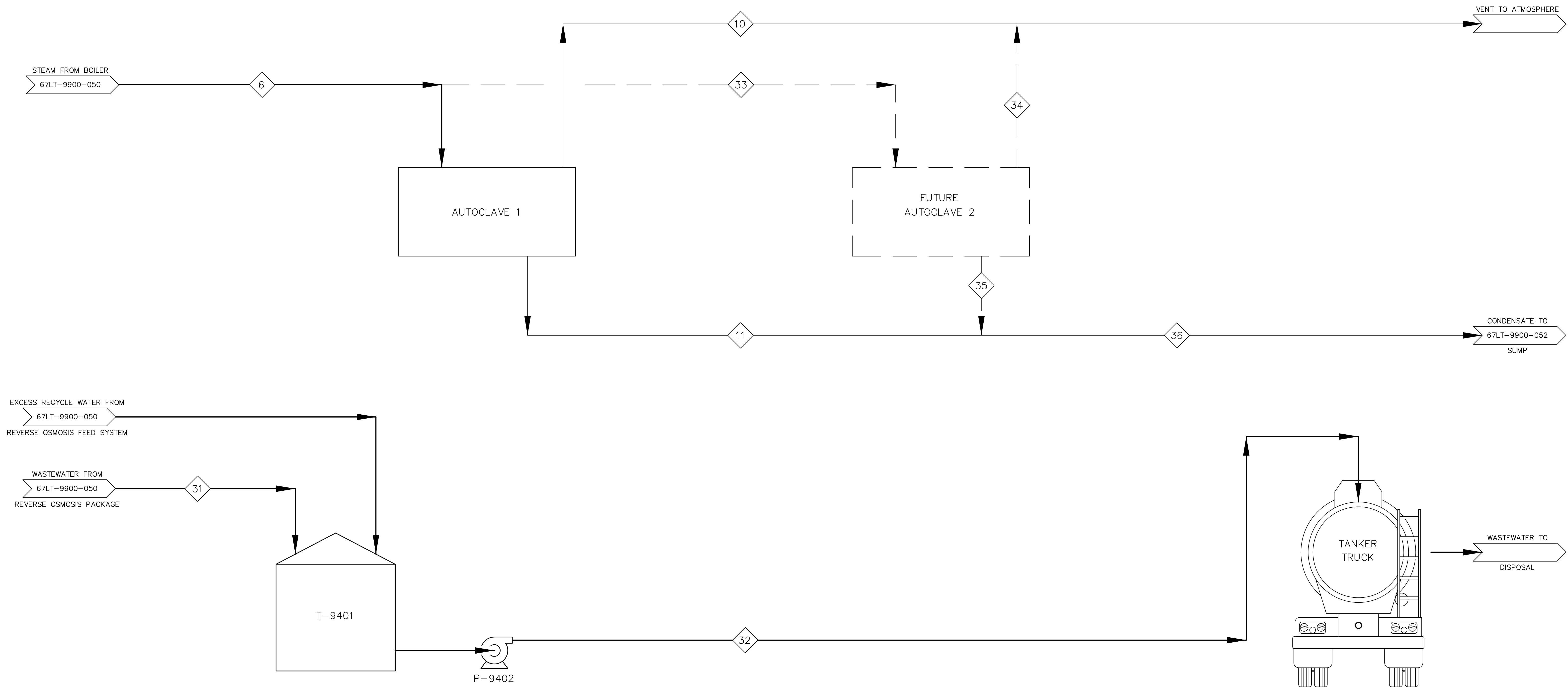
STREAM NO.	1	2	3	4	5	6	7	8	9	28	29	30	31
STREAM NAME	WELL WATER	WELL WATER	BOILER FEED WATER	BOILER FEED WATER	NATURAL GAS	STEAM	STEAM	BOILER BLOWDOWN	SOFTENER WATER	SUMP WATER	R.O. FEED	R.O. WATER	R.O. BLOWDOWN
TEMPERATURE, °F	50	50	70	70	AMBIENT	368	368	368	50	70	70	70	70
PRESSURE, psig	30	20	3	150	5	150	150	150	20	20	100	20	20
CONTINUOUS/BATCH	CONT.	CONT.	CONT.	CONT.	CONT.	BATCH	CONT.	BATCH	CONT.	CONT.	CONT.	CONT.	CONT.
FLOW RATE, gpm	6.6	2.6	8	8	5.3 scfm	-	-	-	4	7.3	9.8	8	1.8
FLOW RATE, gallons/batch	-	-	-	-	-	-	-	-	-	-	-	-	-
FLOW RATE, lb/h	3,305	1,305	4,042	4,042	-	3,140	538.4	364	2,000	3,650	3,650	2,737	913
ALKALINITY, ppm	240	240	77	77	-	0	0	860	240	131	131	0	524

MODIFIED LAST ON 8-23-21

REFERENCE DRAWINGS		A PRELIMINARY DESIGN		K.M.C.		DRAWN BY		DATE		APPR. BY				TITLE CLEAN HARBORS LAPORTE, TX MEDICAL WASTE FACILITY PROCESS FLOW DIAGRAM BOILER AND WATER	
REV.	DESCRIPTION	DATE	BY	DATE	BY	DATE	BY	SCALE	DATE	DRAWING NO.	REV.	67LT-9900-050 A			

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

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

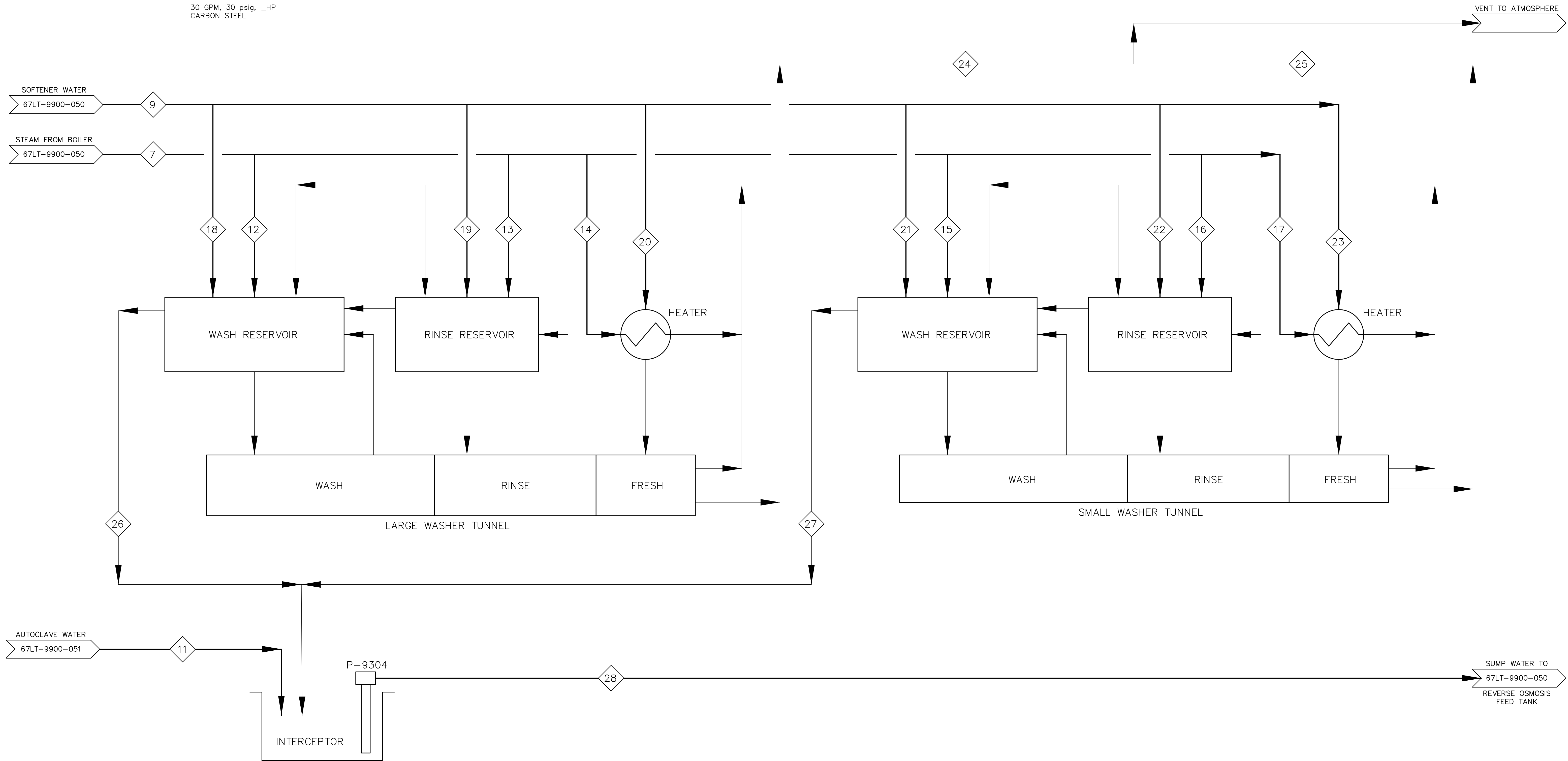


STREAM NO.	6	10	11	31	32	33	34	35	36
STREAM NAME	STEAM	VENT TO ATMOS.	CONDENSATE	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	CONDENSATE
TEMPERATURE, °F	368	212	250	150	100	368	212	250	250
PRESSURE, psig	150	0	15	20	20	150	0	15	15
CONTINUOUS/BATCH	BATCH	BATCH	BATCH	CONT.	BATCH	BATCH	BATCH	BATCH	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

P-9304
 INTERCEPTOR SUMP PUMP
 30 GPM, 30 psig, 1/2 HP
 CARBON STEEL



STREAM NO.	7	9	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
STREAM NAME	STEAM	SOFTWATER	CONDENSATE	STEAM	STEAM	STEAM	STEAM	STEAM	STEAM	SOFTWATER	SOFTWATER	SOFTWATER	SOFTWATER	SOFTWATER	SOFTWATER	VENT TO ATMOS.	VENT TO ATMOS.	OVERFLOW	OVERFLOW	WASTEWATER
TEMPERATURE, °F	368	60	250	368	368	368	368	368	368	60	60	60	60	60	60	180	180	180	180	180
PRESSURE, psig	150	20	15	150	150	150	150	150	150	20	20	20	20	20	20	0	0	0	0	0
CONTINUOUS/BATCH	CONT.	CONT.	BATCH	CONT.	CONT.	CONT.	CONT.	CONT.	CONT.	CONT.	CONT.	CONT.	CONT.	CONT.	CONT.	CONT.	CONT.	CONT.	CONT.	CONT.
FLOW RATE, gpm	-	4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLOW RATE, gallons/batch	-	-	301	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLOW RATE, lb/h	538.4	2,000	2,512	159	11	99.2	159	11	99.2	160	10	830	160	10	830	750	750	569.2	569.2	3,650.4
ALKALINITY	0	240	0	0	0	0	0	0	0	240	240	240	240	240	240	0	0	421	421	131

MODIFIED LAST ON 8-23-21

REFERENCE DRAWINGS																					
														TITLE CLEAN HARBORS LAPORTE, TX MEDICAL WASTE FACILITY PROCESS FLOW DIAGRAM WASH TUNNEL							
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		07/16/21		67LT-9900-052		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

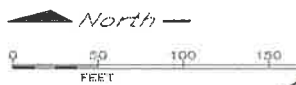
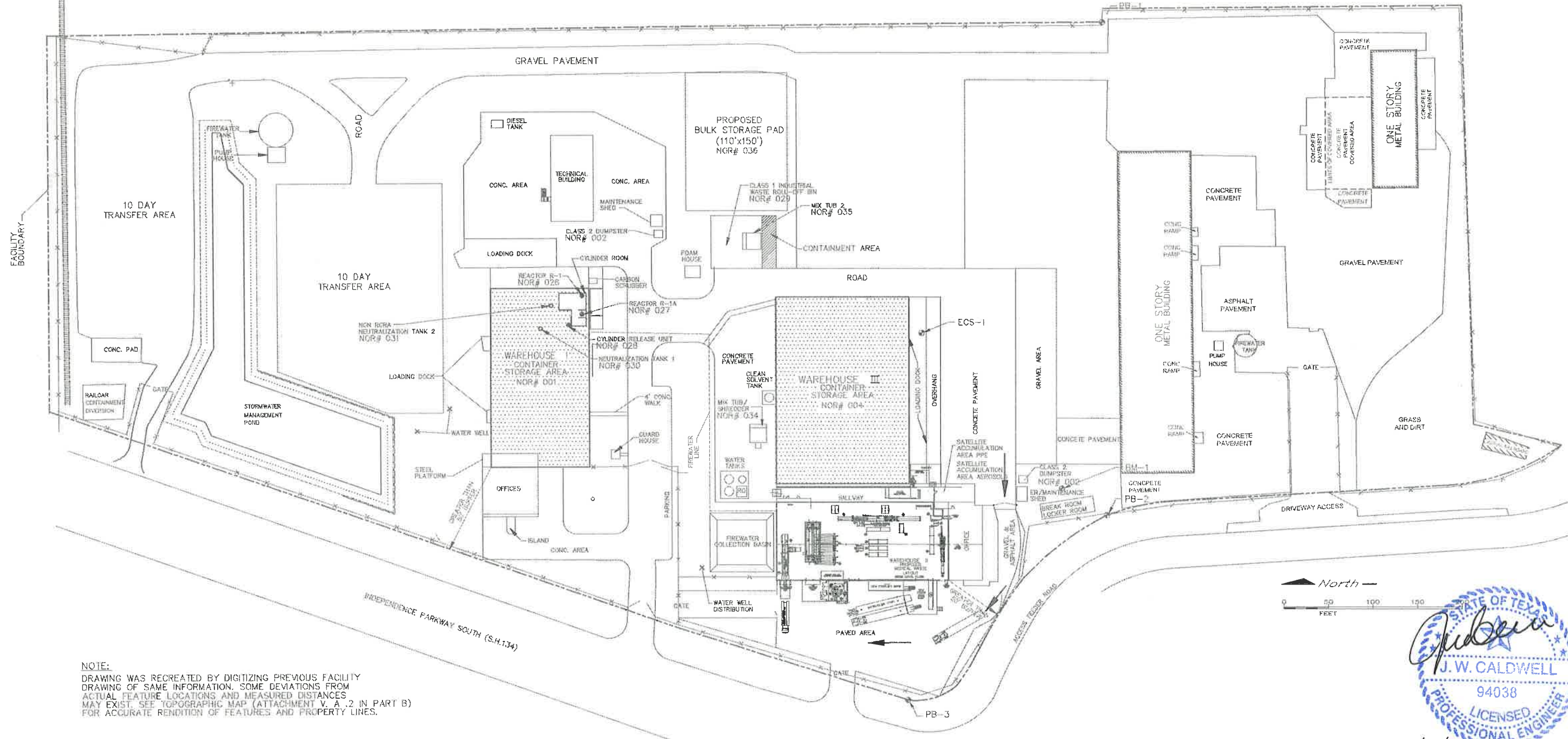
- Confirm there is sufficient power and connections at the high and low voltage panels to power all of the Medical Waste Facility equipment.
- Power wiring (460 volt or less) in conduit or cable trays from the Electrical Panels to
 - Autoclave Power Panel with disconnect.
 - Three hydraulic Tippers with 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
	CHAIN LINK FENCE
	BOUNDARY OF EXISTING CONTAINER STORAGE AREAS
	DRAINAGE CHANNEL FLOWLINE AND FLOW DIRECTION

REFERENCE DRAWINGS	
TITLE	DRAWING NO.

REV.	DESCRIPTION OF ISSUE	BY	CHECKED	DATE	EXT.
B	PERMIT RENEWAL 2022	WOS		1/25/22	
A	PROPOSED LAYOUT	KMC		1/25/22	

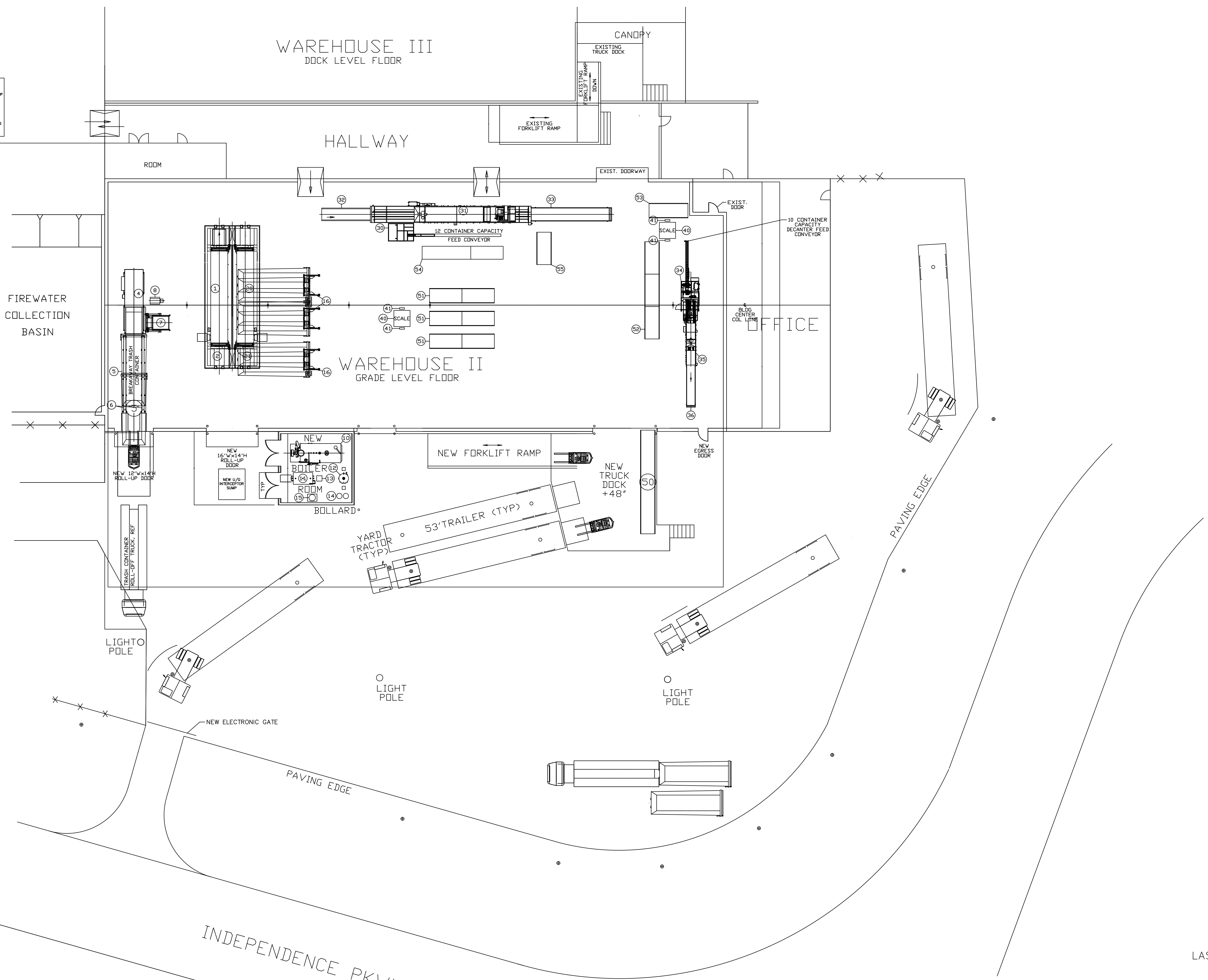
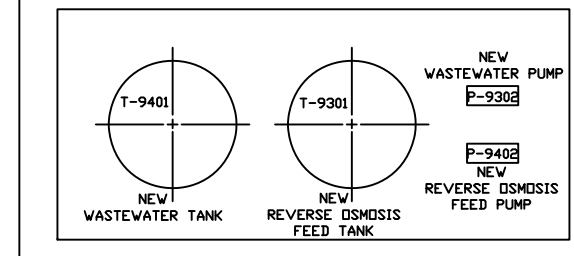
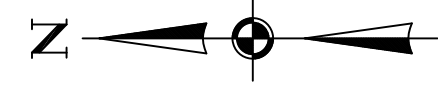
CleanHarbors LAPORTE

500 Independence Parkway South
LaPorte, Texas 77571
Phone: (281) 727-7800

THIS DRAWING AND THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CLEAN HARBORS (LA) HOLDING INC. AND FOR SOLE USE OF THE CLIENT. IT IS TO BE KEPT IN CONFIDENCE. THE CLIENT'S UNDERSTANDING AND ACCEPTANCE OF THIS DRAWING IS A CONDITION OF THE CONTRACT. THE DRAWING AND INFORMATION SHALL BE THE ACT OF RETURNING IT BE DEEMED TO HAVE ASSIGNED TO THE CLIENT. NO OTHER REPRODUCTION, INCLUDING PHOTOGRAPHY OF ALL OR ANY PART, IS ALLOWED WITHOUT THE WRITTEN PERMISSION OF CLEAN HARBORS (LA) HOLDING INC. AS A CONDITION OF THE CONTRACT. THIS DRAWING IS TO BE KEPT IN CONFIDENCE AND RETURNED TO CLEAN HARBORS (LA) HOLDING INC. UPON COMPLETION OF THE PROJECT.

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

APPROVED: SCALE: AS NOTED DWG. NO.: 67LT-0100-006 REV. B



LAST MODIFIED ON 8-27-21

INDEPENDENCE PKWY

REFERENCE DRAWINGS																					
REV.	A	PROPOSED LAYOUT		KMC																	
		DESCRIPTION		DRAWN BY	DATE	APPR. BY															
												<small>THIS DRAWING IS THE PROPERTY OF CLEAN HARBORS LAPORTE. ANY INFORMATION CONTAINED HEREIN MAY NOT BE COPIED OR USED WITHOUT WRITTEN PERMISSION OF OWNER.</small>		TITLE CLEAN HARBORS LAPORTE FACILITY SITE PLAN MEDICAL WASTE TREATMENT FACILITY LAYOUT OPTION 7B		DRAWING NO. 67LT-0100-002		REV. A			
										SCALE 1"=15'-0"		DATE 08/03/21									

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

February 9, 2022

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





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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

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 Venti Title: Director Facility Operations

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) 884-5519

Email Address: ventis@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: _____

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, dustpan 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.

\$,500



Section 2.5 Table 3 continued

Unit Type	Minimum Number of Units	Design Details	Approximate Dimensions	Approximate Capacity Per Unit
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.

Safety-Kleen Systems, Inc. Santa Ana Medical Waste Permit Application Page 11

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 other 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	1	\$7,000	\$7,000
2	Bid Document and Procurement	NA	80	\$75.00	\$6,000
3	Contract Award and Administration	NA	10	\$125.00	\$1,250
4	Clean-Up, Removal and Transport of Waste Stored On-Site	NA	4 Trucks	\$2,000	\$8,000
5	Disposal of Waste at an Authorized Facility	Landfill	1 Truck	\$1,000	\$1,000
6	Waste Treatment	lbs	80,000	\$0.40	\$32,000
7	Process Units Dismantling	NA	2	\$2,500	\$5,000
8	Wash Down and Disinfection of Facility and Processing Units	NA	2	\$2,000	\$4,000
9	Vector Control	NA	1	\$2,500	\$2,500



Item No.	Item Description	Unit of Measurement*	Quantity	Unit Cost	Total Cost
10	Site Security	NA	1	\$7,500	\$7,500
11	Signs, Newspaper Notice and TCEQ Notice	NA	1	\$2,500	\$2,500
12	Facility Inspection and Closure Certification by Licensed Engineer	NA	1**	\$5,000	\$5,000
13	Additional Storage and Processing Unit Closure Cost Items (describe in attachments)	0	NA	NA	0
14	Storage and Processing Unit Closure Costs Subtotal	NA	NA	NA	\$81,750
15	Contingency Cost 15%	NA	NA	NA	\$12,263
16	Total Closure Cost Estimate	NA	NA	NA	\$94,013

SPURGIN & ASSOCIATES

January 31, 2022

Re: Medical Waste Closure Plan for Safety-Kleen / Clean Harbors Environmental Services in La Porte Texas

Spurgin & Associates has been requested as a 3rd party to compile a closure plan cost estimate by Safety-Kleen / Clean Harbors Environmental Services in connection with an amendment to their Medical Waste Registration at 500 Independence Parkway South, La Porte, TX 77571.

Table 4: Closure Cost Estimate Worksheet has been completed to fulfill this requirement. Boxes labeled NA are pre-filled on the TCEQ form and are not intended to be interpreted as “Not Applicable” by the applicant. Additionally, the form specifies item descriptions and quantities that don’t correspond directly to the attached spreadsheet of line-item costs and tasks. Therefore, to work within the Table 4 parameters some items on the spreadsheet have been combined to fit in to the line items in the table. Accordingly, the spreadsheet is included for reference.

Please feel free to contact me regarding any questions you have concerning this Closure Cost requirement.

Sincerely,



Robert A Spurgin
President

RAS:jm

Enclosure

ITEM	Task	Quantity	Unit	Description	Unit Cost	Total Cost
Maintenance*		1	Lump Sum	Month	\$ 10,000	\$ 10,000
	*Assumes utilities, vector control, security etc					
Engineering	Review, bid docs, bidding, contract admin.	80	hours	Staff	\$ 75.00	\$ 6,000
		10	hours	Manager, PE	\$ 125.00	\$ 1,250
	Certification	40	hours	Staff	\$ 75.00	\$ 3,000
		16	hours	Manager, PE	\$ 125.00	\$ 2,000
CQA	Onsite	80	hours	Staff	\$ 75.00	\$ 6,000
		10	hours	Manager	\$ 100.00	\$ 1,000
	Expenses	1	Lump Sum	Expenses	\$ 750.00	\$ 750
				Engr/CQA Subtotal		\$ 20,000



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 ensure 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: 50 pounds/day tons /day

Maximum amount of waste to be stored at any point in time: 80000 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 DeSha

Title of person signing: Director Environmental Compliance

Signature: [Handwritten Signature] Date: 2/8/2022

Notarization

SUBSCRIBED AND SWORN to before me by the said David DeSha

On this 8 day of February, 2022

My commission expires on the 13 day of December, 2022

[Handwritten Signature]
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 _____

On this _____ day of _____, _____.

My commission expires on the _____ day of _____, _____.

Notary Public in and for
_____ 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 DeSha

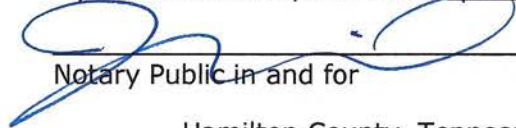
Signature:  Date: 2/8/2022

Notarization

SUBSCRIBED AND SWORN to before me by the said David DeSha

On this 8 day of February, 2022

My commission expires on the 13 day of December, 2022


Notary Public in and for
Hamilton County, Tennessee



Attachments

Table Att-1. Required Attachments

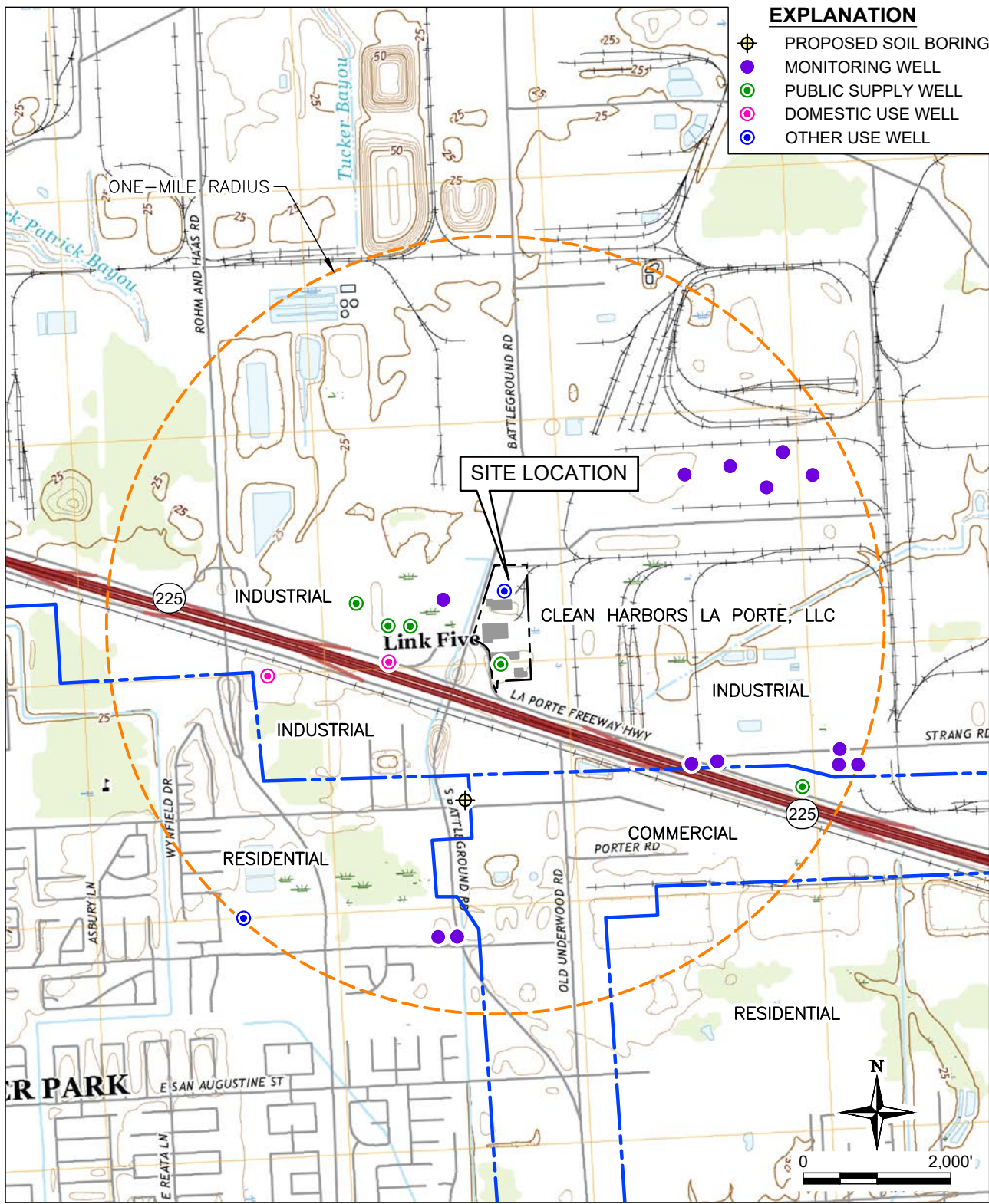
Attachments	Attachment No.
General Location Map	1
Facility Access Map	2
Facility Layout Map	2
Land Use Map	3
Land Ownership Map	4
Land Ownership List	5
Land Ownership Hard Copy and Electronic Mailing List or Mailing Labels	6
Metes and Bounds Drawing and Description	7
Copy of Authorization to Discharge 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



- EXPLANATION**
- ⊕ PROPOSED SOIL BORING
 - MONITORING WELL
 - PUBLIC SUPPLY WELL
 - DOMESTIC USE WELL
 - OTHER USE WELL

Image Citation: U.S. Geological Survey, 1:24,000—Scale 7.5 Minute Digital Raster Graphic Quadrangle, La Porte, Texas, Publication: 2019



Trihydro
CORPORATION
1252 Commerce Drive
Laramie, Wyoming 82070
www.trihydro.com
(P) 307/745.7474 (F) 307/745.7729

FIGURE 1

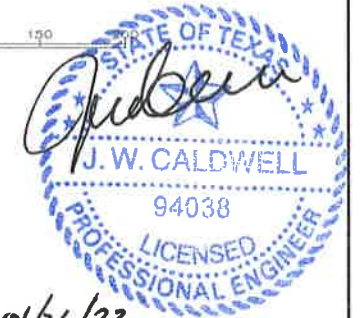
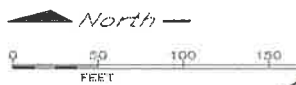
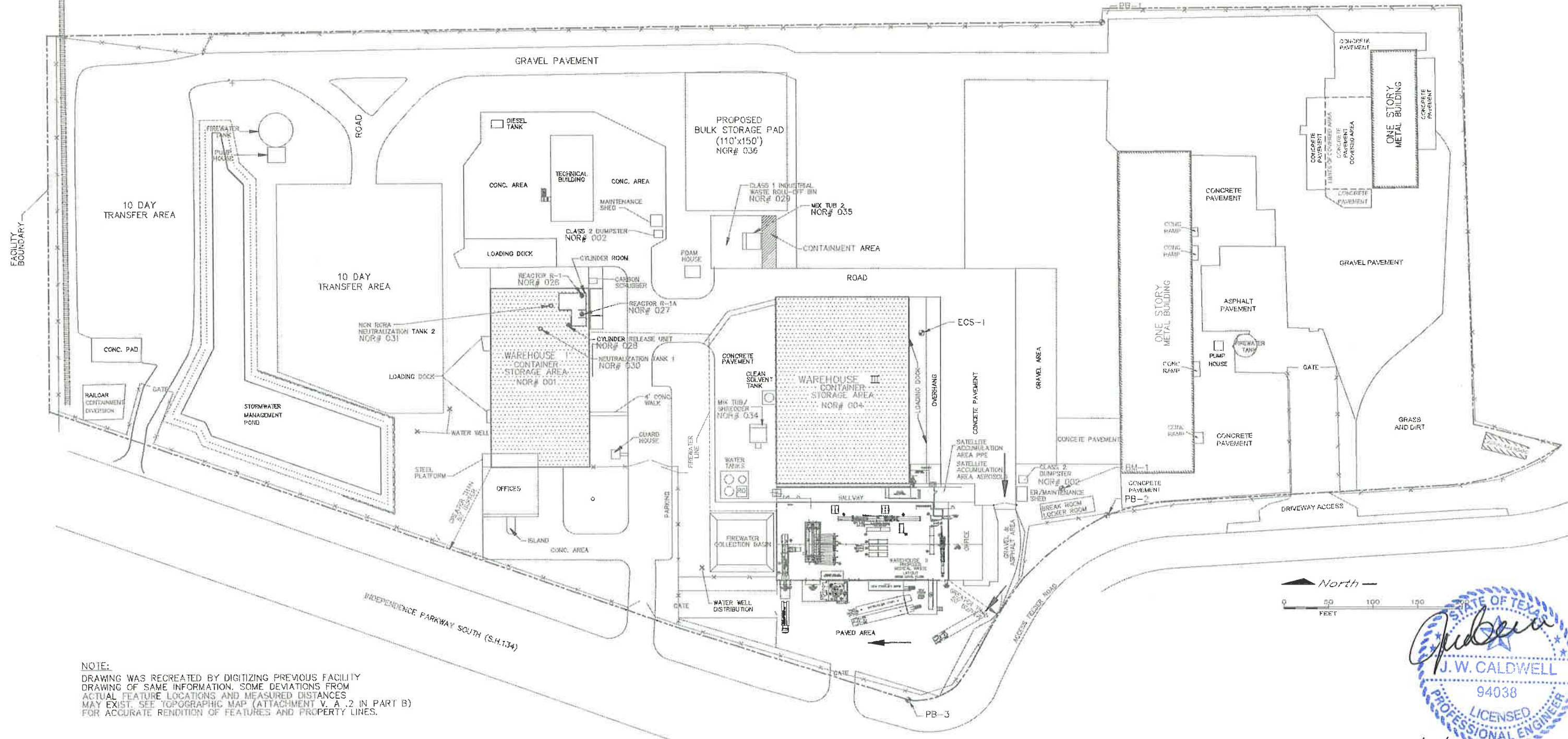
SITE LOCATION MAP

CLEAN HARBORS LA PORTE, LLC
LA PORTE, TEXAS

Drawn By: PME | Checked By: FJK | Scale: 1" = 2,000' | Date: 5/20/2020 | File: 69V-SITE-WELLS-LOCATON



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
	DRAINAGE CHANNEL FLOWLINE AND FLOW DIRECTION

REFERENCE DRAWINGS	
TITLE	DRAWING NO.

REV.	DESCRIPTION OF ISSUE	DATE	EXT.
B	PERMIT RENEWAL 2022	1/25/22	
A	PROPOSED LAYOUT	1/25/22	

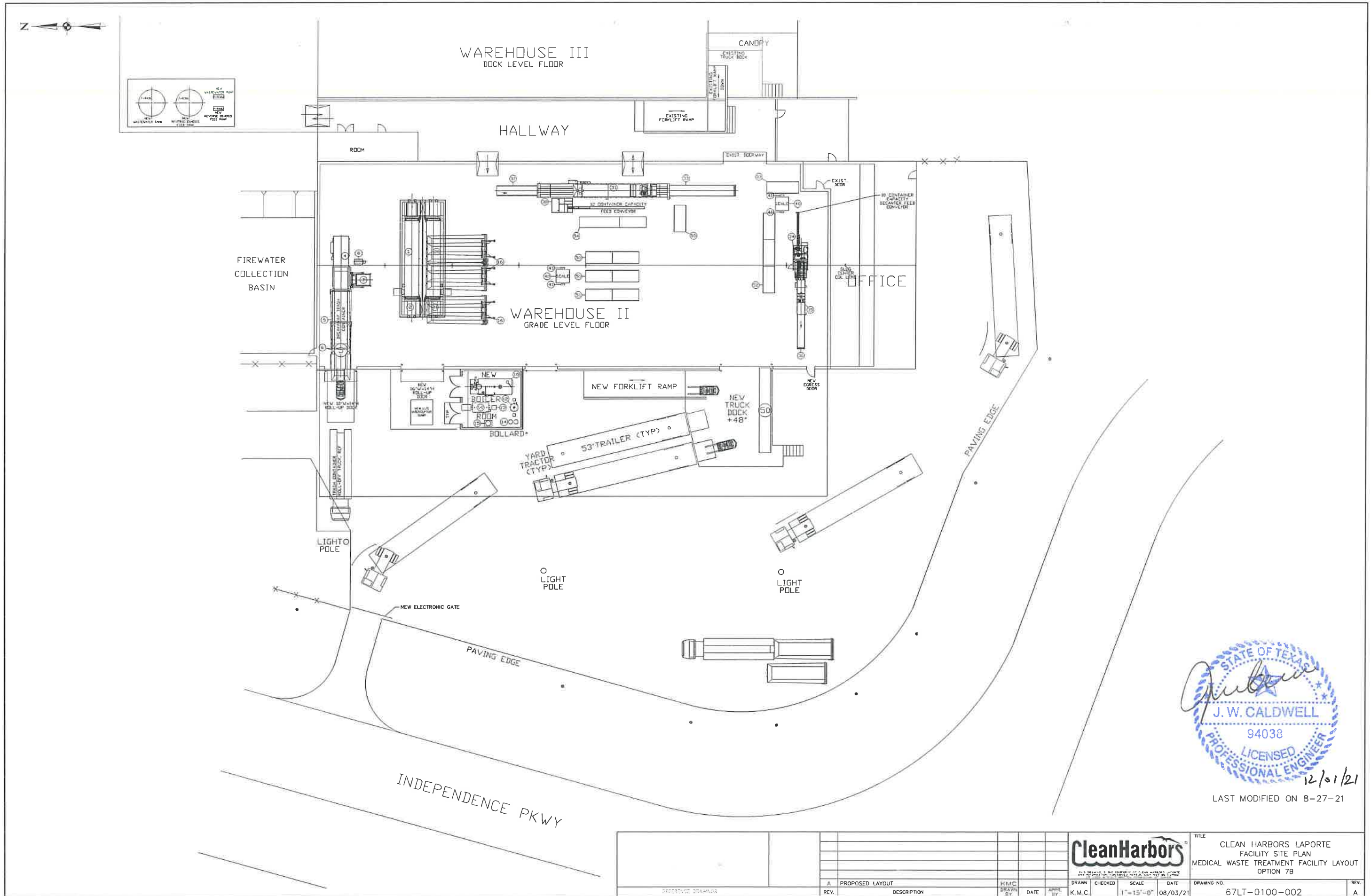
CleanHarbors LAPORTE

500 Independence Parkway South
LaPorte, Texas 77571
Phone: (281) 727-7800

THIS DRAWING AND THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CLEAN HARBORS (LA) (FOOTING) AND FOR SUBMITTAL THEREOF WHICH HAS BEEN FURNISHED IN CONFIDENCE UPON THE UNDERSTANDING AND AGREEMENT THAT ALL PERSONS, FIRMS OR CORPORATIONS RECEIVING THIS DRAWING AND INFORMATION SHALL BY THE ACT OF RECEIVING IT BE DEEMED TO HAVE AGREED TO MAINTAIN THE SAME IN STRICT CONFIDENCE, INCLUDING WITHHOLDING OF ALL OR ANY PART THEREOF EXCEPT AS EXPRESSLY AUTHORIZED IN WRITING BY CLEAN HARBORS (LA) (FOOTING) INC. DO NOT TO GIVE, LEAD OR OTHERWISE DISCLOSE OF THIS DRAWING, AND RETURN IT PROMPTLY UPON REQUEST.

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

APPROVED: SCALE: AS NOTED DWG. NO.: 67LT-0100-006 REV. B



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	



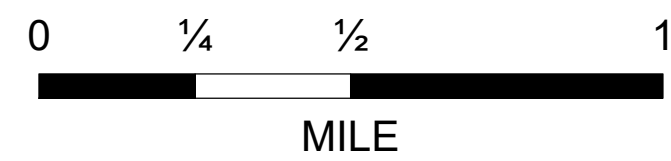
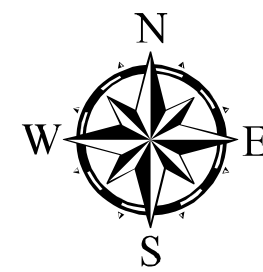
Attachment 3

FUTURE LAND USE

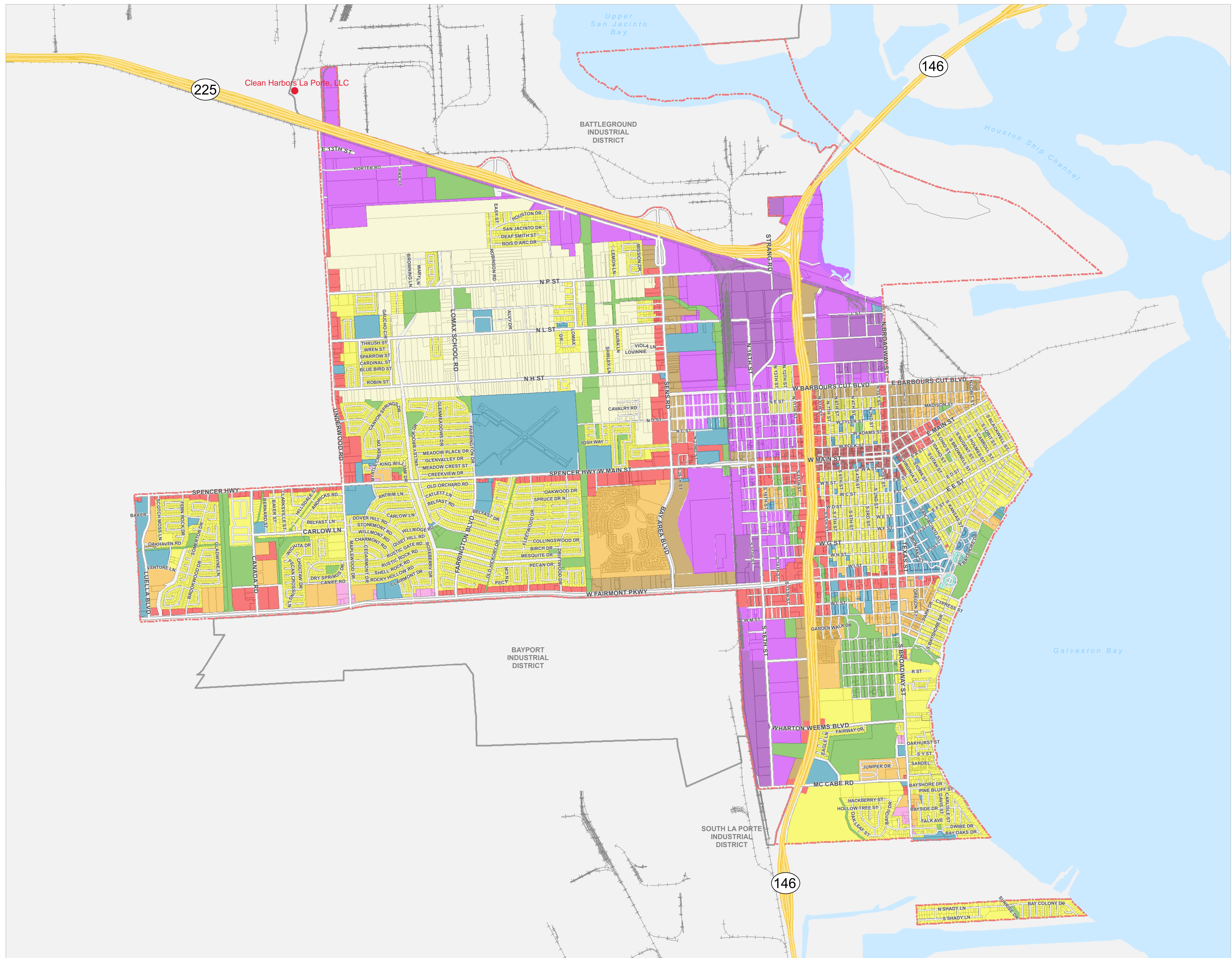
MARCH 2021

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

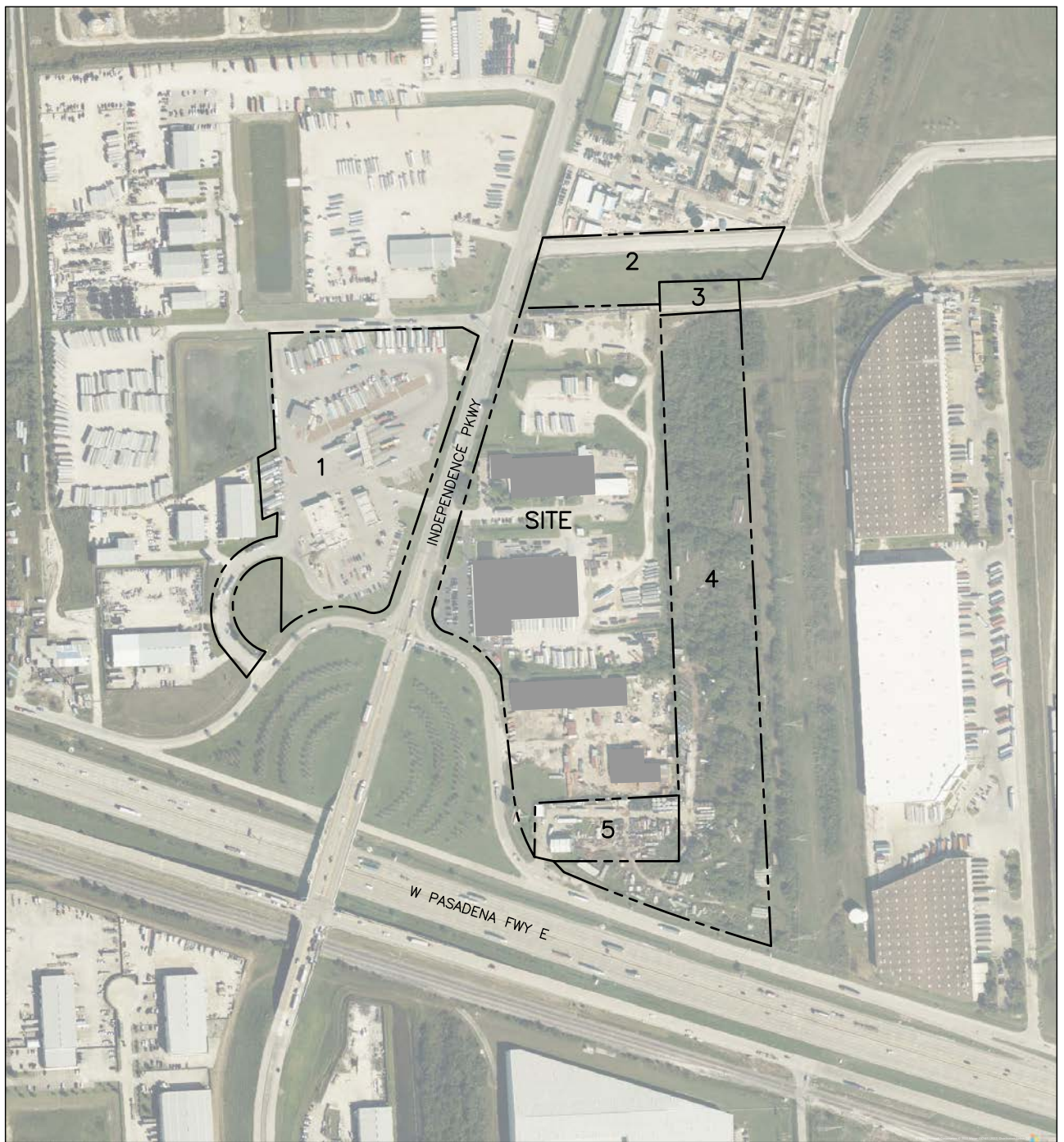


Disclaimer: This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries. Gov. C. §2501.102. The user 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



NOTES:

ADJACENT LANDOWNER INFORMATION WAS ASSEMBLED FROM HARRIS COUNTY APPRAISAL DISTRICT

SITE - CLEAN HARBORS LA PORTE, LLC

ADJACENT LAND USE:

- 1. COMMERCIAL
- 2. UNDEVELOPED
- 3. UNDEVELOPED
- 4. COMMERCIAL
- 5. COMMERCIAL

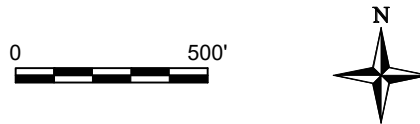


FIGURE 2

ADJACENT LANDOWNER MAP

**CLEAN HARBORS LA PORTE, LLC
LA PORTE, TEXAS**

Trihydro
CORPORATION
1252 Commerce Drive
Laramie, Wyoming 82070
www.trihydro.com
(P) 307/745.7474 (F) 307/745.7729

Drawn By: PME | Checked By: FJK | Scale: 1" = 500' | Date: 1/28/22 | File: 69V-ADJACENT-LAND-OWNER



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 73126-0210
2. LUBRIZOL ADVANCED MATERIALS INC.
TAX DEPT APB BLDG FL 4A
600 INDEPENDENCE PARKWAY
LA PORTE TX 77571
3. SOUTHERN PACIFIC RAILROAD COMPANY
UNION PACIFIC RAILROAD CO
1400 DOUGLAS ST STOP 1640
OMAHA NE 68179-1001
4. TED L BOOHER
RAPID ENVIRONMENTAL SERVICES
PO BOX 687
DEER PARK TX 77536-0687
5. TED BOOHER
PO BOX 687
DEER PARK TX 77536-0687



Attachment 6

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

LUBRIZOL ADVANCED MATERIALS
INC.
TAX DEPT APB BLDG FL 4A
600 INDEPENDENCE PARKWAY
LA PORTE TX 77571

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

TED L BOOHER
RAPID ENVIRONMENTAL SERVICES
PO BOX 687
DEER PARK TX 77536-0687

TED BOOHER
PO BOX 687
DEER PARK TX 77536-0687



Attachment 7

1 TITLE DESCRIPTION

A tract or parcel of land containing 4.898 acres (or 213,361 square feet), more or less, being out of the George Gross Survey, Abstract Number 646, HARRIS County, Texas, and being out of and a portion of that certain 6.9554 acre tract as described by deed from Bryan Moore, Trustee, to Art Music and Cigarette Service, Inc., dated March 24, 1977, filed for record under Clerk's File Number F-091873 of the Official Public Records of Real Property of HARRIS County, Texas, the said 4.898 acre tract being more particularly described by metes and bounds as follows:

BEGINNING at a set 1/2-inch iron rod marking the intersection of the north line of the said 6.9554 acre tract, same being the south line of a certain 8.4607 acre tract as described by deed filed for record under Clerk's File Number L-310019 of the Official Public Records of Real Property of HARRIS County, Texas, with the east line of Battle Ground Road, the said point also being the Point of Beginning of a certain 2.0575 acre tract conveyed out of the said 6.9554 acre tract to The State of Texas by deed(s) filed for record under Clerk's File Number M-083132 and M-356069, both of the Official Public Records of Real Property of HARRIS County, Texas;

THENCE North 87° 38' 21" East, along the common north line of the said 6.9554 acre tract and the south line of the said 8.4607 acre tract, for a distance of 551.84 feet to a set 1/2-inch iron rod in the west line of a certain 25.031 acre tract described by deed filed for record under Clerk's File Number B-329189 of the Official Public Records of Real Property of HARRIS County, Texas;

THENCE South 02° 26' 11" East, along the west line of the said 25.031 acre tract, for a distance of 390.46 feet to a set 1/2-inch iron rod for corner, marking the northeast corner of a certain 2.00 acre tract as described by deed filed for record under Clerk's File Number K-000213 of the Official Public Records of Real Property of HARRIS County, Texas;

SOUTH South 86° 34' 39" West, along the north line of the said 2.00 acre tract, for a distance of 456.27 feet to a set 1/2-inch iron rod for corner, and being the northwest corner of the said 2.00 acre tract;

THENCE South 11° 17' 59" West, along the west line of the said 2.00 acre tract, for a distance of 98.22 feet to a set 1/2-inch iron rod for corner in the east line of said Battle Ground Road;

THENCE in a northeasterly direction, with the east line of said Battle Ground Road, following a curve to the right, having a radius of 241.56 feet, for a distance of 134.34 feet to a set 1-inch iron rod for corner;

THENCE North 05° 16' 13" West, continuing along the east line of said Battle Ground Road, for a distance of 296.00 feet to a set 1/2-inch iron rod for corner;

THENCE continuing along the east line of said Battle Ground Road, following a curve to the left, having a radius of 296.00 feet, for a distance of 75.03 feet to the POINT OF BEGINNING.

The Title Description calls out the property lying within the George Gross Survey, the correct name is George Ross Survey.

The land shown in this survey is the same as that described in Fidelity National Title Insurance Company, Commitment No.: 1076682100200, GF No.: CH-7668-1076682100200, Effective Date: September 6, 2021, Issued: September 15, 2021.

2 TITLE INFORMATION

THE TITLE DESCRIPTION AND THE SCHEDULE B ITEMS HEREON ARE FROM A TITLE REPORT PREPARED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY, COMMITMENT NO.: 1076682100200, GF NO.: CH-7668-1076682100200, EFFECTIVE DATE: SEPTEMBER 6, 2021, ISSUED: SEPTEMBER 15, 2021.

6 CEMETERY

THERE WAS NO VISIBLE EVIDENCE OF CEMETERIES OR BURIAL GROUNDS OBSERVED AT THE TIME THIS SURVEY WAS PERFORMED.

8 ZONING INFORMATION

ACCORDING TO THE ZONING COMPLIANCE REPORT PREPARED BY COMMERCIAL DUE DILIGENCE SERVICES, JOB NO.: 21-09-0337, INITIAL REPORT DATED 11/18/2021 (PHONE: 888-322-7371, cds.solutions@firstam.com), THE SUBJECT PROPERTY IS ZONED AS FOLLOWS WITH THE CORRESPONDING STANDARDS:

ZONE: No Zoning Jurisdiction. There is no zoning regulation promulgated or administered by Harris County in the unincorporated area.

- MIN. FRONT SETBACK = No requirement
MIN. SIDE SETBACK = No requirement
MIN. REAR SETBACK = No requirement
MAX. HEIGHT = No requirement
MIN. LOT AREA = No requirement
MIN. LOT WIDTH = No requirement
MIN. LOT DEPTH = No requirement
MAX. BLDG. COV. = No requirement
FLOOR AREA RATIO = No requirement
RESIDENTIAL DENSITY = No requirement
PARKING SPACE FORMULA = No requirement

ALL SETBACK LINES PER THE ABOVE ZONING STANDARDS GRAPHICALLY DEPICTED HEREON ARE ORIENTED WITH THE ASSUMPTION THAT THE FRONT OF THE PROPERTY FACES THE ROAD THAT THE CORRESPONDS WITH THE SUBJECT PROPERTY STREET ADDRESS. ALL ZONING INFORMATION SHOULD BE VERIFIED WITH THE CITY OF LA PORTE, TEXAS BEFORE USE.

3 SCHEDULE "B" ITEMS

NOTES CORRESPONDING TO SCHEDULE "B" SECTION TWO EXCEPTIONS:

- The following restrictive covenants of record itemized below:
Covenants, conditions and restrictions as set forth in the document:
Recording Date: August 11, 1950
Recording No: Volume 2124, Page 685, Deed Records
(DOES AFFECT THE SUBJECT PROPERTY, BLANKET IN NATURE, NO PLOTTABLE ITEMS, THE 50' ESMT. ON PAGE 17 CANNOT BE DETERMINED IF IT AFFECTS AS THE DESCRIPTION IS TOO DATED)
Unlocated pipeline easement granted to Houston Pipe Line Company, as set out in instrument dated July 7, 1954, recorded in Volume 2792, Page 721 of the Deed Records of HARRIS County, Texas.
Easement Ten (10) feet in width as located by a cross-hatched area on the sketch appended thereto, together with an unobstructed aerial easement Eleven (11) feet Six (6) inches in width extending upward from a plane Sixteen (16) feet above ground level northerly and adjoining thereto, granted to Houston Lighting and Power Company, as set out by instrument dated December 27, 1996, filed for record under Clerk's File Number S-304777 of the Official Public Records of Real Property of HARRIS County, Texas.
The existence of an on-site sewage facility (CSSF), together with the terms and conditions relative to the maintenance of same, as evidenced by the Affidavit to the Public dated November 13, 1997, filed for record under Clerk's File Number S-737329 of the Official Public Records of Real Property of HARRIS County, Texas.

5 FLOOD INFORMATION

By scaling and graphic plotting only, the subject property lies within Zone "X" of the Flood Insurance Rate Map for Harris County, Texas, Community Panel or Map Number 40201 D 0930m, bearing an effective date of 1-6-2017. No field survey was performed to determine this Zone and an Elevation Certificate may be needed to verify this determination or apply for a variance from the Federal Emergency Management Agency. Relevant zones are defined on said map as follows:

ZONE "X" - Areas determined to be outside the 0.2% annual chance floodplain.

7 POSSIBLE ENCROACHMENTS

- CHAIN LINK FENCE IS NORTH OF THE NORTH LINE BY UP TO 10.6 FEET ±.
UNDER GROUND DOWNSPOUT DISCHARGE UTILITY MARKING IS NORTH OF THE NORTH LINE BY UP TO 4.3 FEET ±.
UNDER GROUND DOWNSPOUT DISCHARGE UTILITY MARKING IS NORTH OF THE NORTH LINE BY UP TO 4.9 FEET ±.
UNDER GROUND DOWNSPOUT DISCHARGE UTILITY MARKING IS NORTH OF THE NORTH LINE BY UP TO 1.8 FEET ±.
UNDER GROUND DOWNSPOUT DISCHARGE UTILITY MARKING IS NORTH OF THE NORTH LINE BY UP TO 1.4 FEET ±.
CHAIN LINK FENCE IS NORTH OF THE NORTH LINE BY UP TO 10.8 FEET ±.
CHAIN LINK FENCE IS EAST OF THE EAST LINE BY UP TO 0.4 FEET ±.
CHAIN LINK FENCE IS EAST OF THE EAST LINE BY UP TO 0.7 FEET ±.
CHAIN LINK FENCE IS NORTH OF THE SOUTH LINE BY UP TO 2.0 FEET ±.
CHAIN LINK FENCE IS SOUTH OF THE SOUTH LINE BY UP TO 0.8 FEET ±.
CHAIN LINK FENCE IS EAST OF THE EAST LINE BY UP TO 6.0 FEET ±.
CHAIN LINK FENCE IS WEST OF THE WEST LINE BY UP TO 0.8 FEET ±.
CHAIN LINK FENCE IS WEST OF THE WEST LINE BY UP TO 2.1 FEET ±.
CHAIN LINK FENCE IS WEST OF THE WEST LINE BY UP TO 2.2 FEET ±.
CHAIN LINK FENCE IS EAST OF THE WEST LINE BY UP TO 3.0 FEET ±.
CHAIN LINK FENCE IS WEST OF THE WEST LINE BY UP TO 3.6 FEET ±.
CHAIN LINK FENCE IS WEST OF THE WEST LINE BY UP TO 0.2 FEET ±.
CHAIN LINK FENCE IS SOUTH OF THE NORTH LINE BY UP TO 2.1 FEET ±.

4 SURVEYOR CERTIFICATION

To: Fidelity National Title Insurance Company.
This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 6(a), 6(b), 7(a), 7(b)(1), 7(c), 8, 9, 11(b) 13, 14, 15, 19, and 20(a) (Graphically depict in relation to the subject tract or property any offsite easements or servitudes benefiting the surveyed property and disclosed in Record Documents provided to the surveyor as part of the Schedule "A"), of Table A thereof. The fieldwork was completed on 09/24/2021.

Date of Plat or Map: ***/**/****

PRELIMINARY, THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND IS FOR EXAMINATION / REVIEW ONLY

Chad W. Walsh
Texas Registered Professional Land Surveyor No. 6497
Texas Firm No. 10132900

11 SURVEYOR'S NOTES

- This survey is based on information shown on a title report prepared by Fidelity National Title Insurance Company, Commitment No.: 1076682100200, GF No.: CH-7668-1076682100200, Effective Date: September 6, 2021, Issued: September 15, 2021 and all Schedule B exceptions in said title report have been addressed. The surveyor did not abstract this property and has relied on said title report for all matters of record.
Subject tract has direct driveway access to INDEPENDENCE PARKWAY SOUTH, a.k.a. STATE HIGHWAY 225 FRONTAGE ROAD, a.k.a. FEEDER FOR BATTLEGROUND ROAD, a public right-of-way.
There is no observable evidence of earth moving work, or building construction.
No observable evidence of any changes in street right-of-ways or recent street or sidewalk construction or repair.
All statements within the certification, and other references located elsewhere hereon, related to utilities, improvements, structures, buildings, party walls, parking, easements, servitudes, foundations and encroachments are based solely on above ground, visible evidence, unless another source of information is specifically referenced hereon.
No monuments were set by the surveyor at the time this survey was performed.
This survey does not provide a determination or opinion concerning the location or existence of wetlands, faultlines, toxic or hazardous waste areas, subsidence, subsurface and environmental conditions or geological issues. No statement is made concerning the suitability of the subject tract for any intended use, purpose or development.
The point of height measurement is identified on the survey and was taken from the nearest adjacent grade at said point. This point represents the height of the structure as observed from ground level.
The dimensions and area of the building shown are based on the building's exterior footprint at ground level.
The surveyor did not observe any equipment or action associated with the process of drilling for oil, gas, or any other hydrocarbons on this survey.
The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from the information available. This surveyor has not physically located the underground utilities. All underground utilities should be field verified by the contractor prior to commencing any on site work.
Information for the underground utilities was provided by GPRS, INC (866) 914-4718 - info@gprsync.com.
All Reciprocal Easement Agreements ("REAs") that have been reported by the title report provided have been denoted on the survey and are shown hereon. The limits of any offsite appurtenant easements that have been reported by the title report provided have been denoted on the survey and are shown hereon.
Unless shown otherwise the surveyed boundary shown hereon is contiguous with the adjoining properties and/or rights of way without any gaps, gores or overlaps.
Unless shown otherwise, no visible evidence of substantial areas of refuse were observed at the time the fieldwork was performed.
This topographic map and the survey upon which it is based have been prepared and performed in accordance with the United States National Map Accuracy Standards for vertical accuracy.
ELEVATION BENCHMARKS
HARRIS COUNTY REFERENCE MONUMENT 070425: ELEVATION= 29.55
HARRIS COUNTY REFERENCE MONUMENT 070430: ELEVATION= 28.08
TEMPORARY BENCHMARK #1: CUT X ON TOP OF GRATED INLET: ELEVATION= 30.00 (TBM#1)
TEMPORARY BENCHMARK #2: MAG NAIL SET IN GRAVEL PAVEMENT: ELEVATION= 31.65 (TBM#2)

KEY TO ALTA-SURVEY

- 1 TITLE DESCRIPTION
2 TITLE INFORMATION
3 SCHEDULE "B" ITEMS
4 SURVEYOR CERTIFICATION
5 FLOOD INFORMATION
6 CEMETERY
7 POSSIBLE ENCROACHMENTS
8 ZONING INFORMATION
9 LEGEND
10 BASIS OF BEARING
11 SURVEYOR'S NOTES
12 PARKING INFORMATION
13 LAND AREA
14 BUILDING AREA
15 BUILDING HEIGHT
16 VICINITY MAP
17 NORTH ARROW / SCALE
18 CLIENT INFORMATION BOX
19 SURVEY DRAWING
20 PROJECT ADDRESS

18 ALTA/NSPS Land Title Survey

This survey was made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys. (Effective February 23, 2021)

This Work Coordinated By:



3550 W. Robinson Street, Third Floor
Norman, Oklahoma 73072
Main Office Phone No.: 405-253-2444

Toll Free: 888.457.7878

Table with 2 columns: Field Name, Value. Includes Drawn By: KPH, Surveyor Ref. No: 21-09-0337, Approved By: CWW, Field Date: 09-24-2021, Scale: 1" = 30', and revision dates.

Prepared For:

20 PROJECT ADDRESS

296 Independence Parkway South
La Porte, Texas 77571

Project Name:
CH La Porte TX
CDS Project Number:
21-09-0337

19 SURVEY DRAWING

10 BASIS OF BEARINGS

GRID NORTH, TEXAS STATE PLANE COORDINATE SYSTEM, NAD83, TEXAS SOUTH CENTRAL ZONE

CONTROLLING MONUMENTS:

THE 3" ALUMINUM TEXAS RIGHT OF WAY MONUMENT FOUND AT THE NORTHWEST CORNER OF THE SUBJECT PROPERTY AND THE 5/8" CAPPED IRON ROD FOUND AT THE SOUTH MOST SOUTHWEST CORNER OF THE SUBJECT PROPERTY, BOTH NOTED AS (C.M.) HEREON.

12 PARKING INFORMATION

NO STRIPED PARKING SPACES WERE OBSERVED AT THE TIME OF THIS SURVEY.

13 LAND AREA

213,361 SQUARE FEET
4.898 ACRES

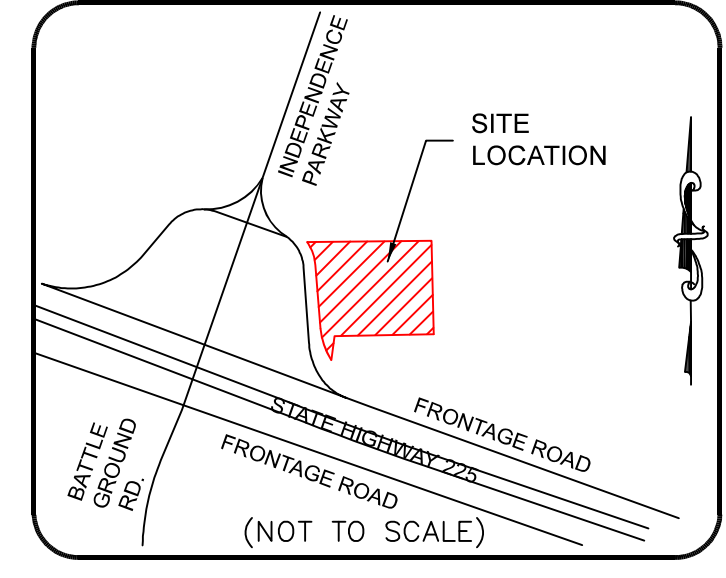
14 BUILDING AREA

BUILDING #1 = 28,102 SQUARE FEET
BUILDING #2 = 7,465 SQUARE FEET
SHED = 84.5 SQUARE FEET
(SEE SURVEYOR'S NOTE 9 IN BOX 11)

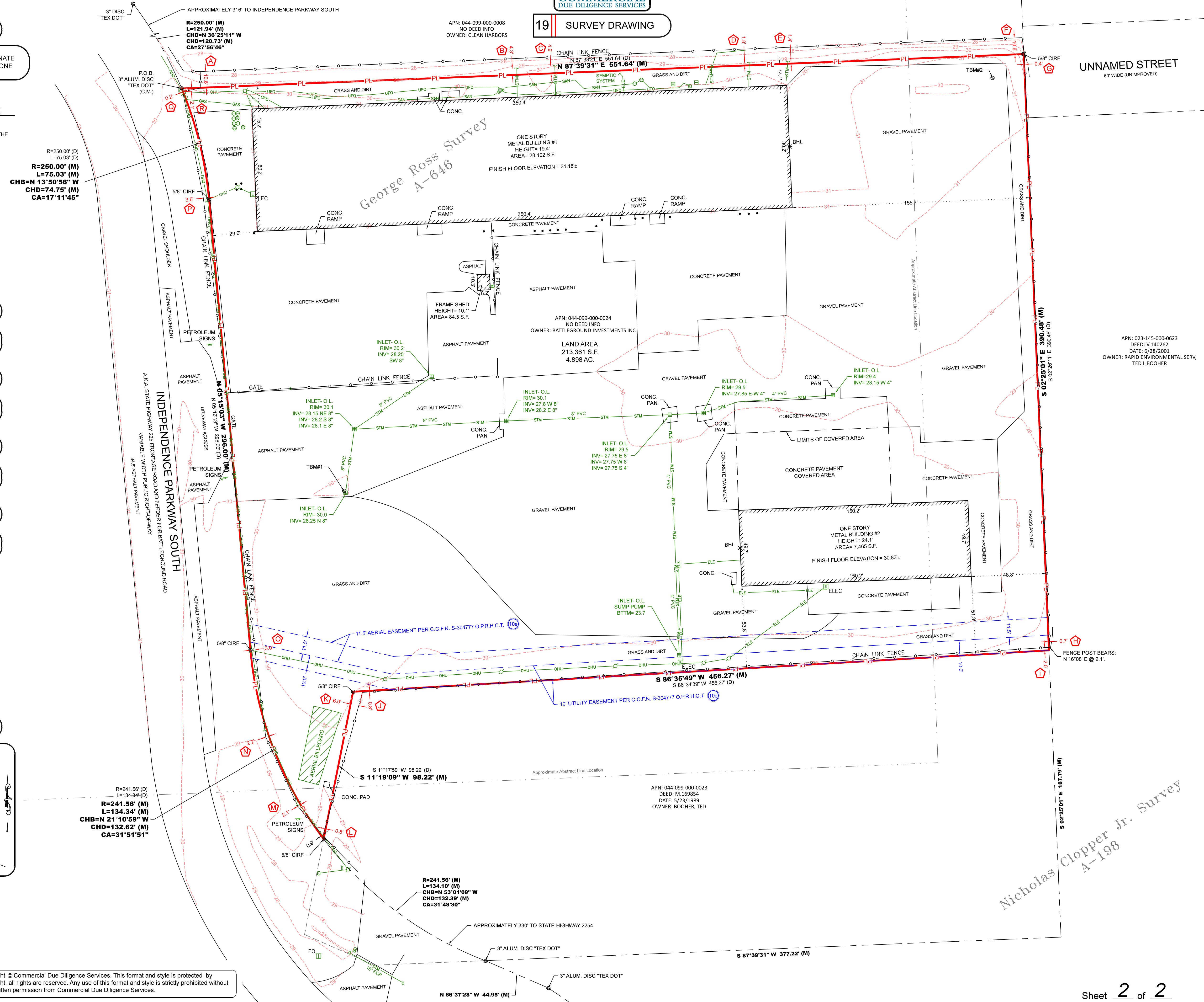
15 BUILDING HEIGHT

BUILDING #1 = 19.4 FEET ±
BUILDING #2 = 24.1 FEET ±
SHED = 10.1 FEET ±
(SEE SURVEYOR'S NOTE 9 IN BOX 11)

16 VICINITY MAP



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17 NORTH ARROW / SCALE



9 LEGEND

- PL - PROPERTY LINE
 - ADJ. LINE - ADJACENT LINE
 - FENCE CHAIN LINK - FENCE CHAIN LINK
 - BUILDING FACE - BUILDING FACE
 - BUILDING OVERHANG - BUILDING OVERHANG
 - EASEMENT - EASEMENT
 - EXISTING CONTOUR ELEVATION - EXISTING CONTOUR ELEVATION
 - OHU - OVERHEAD UTILITY
 - ELE - UNDERGROUND ELECTRIC
 - GAS - UNDERGROUND GAS
 - SAN - UNDERGROUND SANITARY
 - STM - UNDERGROUND STORM
 - UFO - UNDERGROUND FIBER OPTIC
 - BHL - BUILDING HEIGHT LOCATION (BHL)
 - TBM - TEMPORARY BENCHMARK LOCATION (TBM)
 - EM - ELECTRIC METER
 - GP - GATE POST
 - GU - GUARD POST
 - UP - UTILITY POLE
 - IOG - INLET OPEN GRATE
 - CIRF - CAPPED IRON ROD FOUND (CIRF)
 - AV - AIR CONDITIONER
 - UV - UTILITY VAULT
 - SNP - SIGN ON POST
 - EB - ELECTRIC BOX
 - UR - UTILITY RISER
 - GA - GUY ANCHOR
 - TD - TEX DOT - 3" ALUM. DISC
 - MB - MAILBOX
 - CO - CLEAN OUT
 - BS - BREAK SCALE (NOT TO SCALE)
- (M) = MEASURED VALUE
(D) = DEED VALUE
A.K.A. = ALSO KNOWN AS
CIRF = CAPPED IRON ROD FOUND
INV = INVERT, O.L. = OPEN LID
D.P.R.H.C.T. = OFFICIAL PUBLIC RECORDS HARRIS COUNTY, TEXAS

18 ALTA/NSPS Land Title Survey

This survey was made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys. (Effective February 23, 2021)

This Work Coordinated By:

CDS
COMMERCIAL
DUE DILIGENCE SERVICES
3550 W. Robinson Street, Third Floor
Norman, Oklahoma 73072
Main Office Phone No.: 405-253-2444
Toll Free: 888.457.7878

Prepared For:

20 PROJECT ADDRESS
296 Independence Parkway South
La Porte, Texas 77571

Project Name:
CH La Porte TX
CDS Project Number:
21-09-0337



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

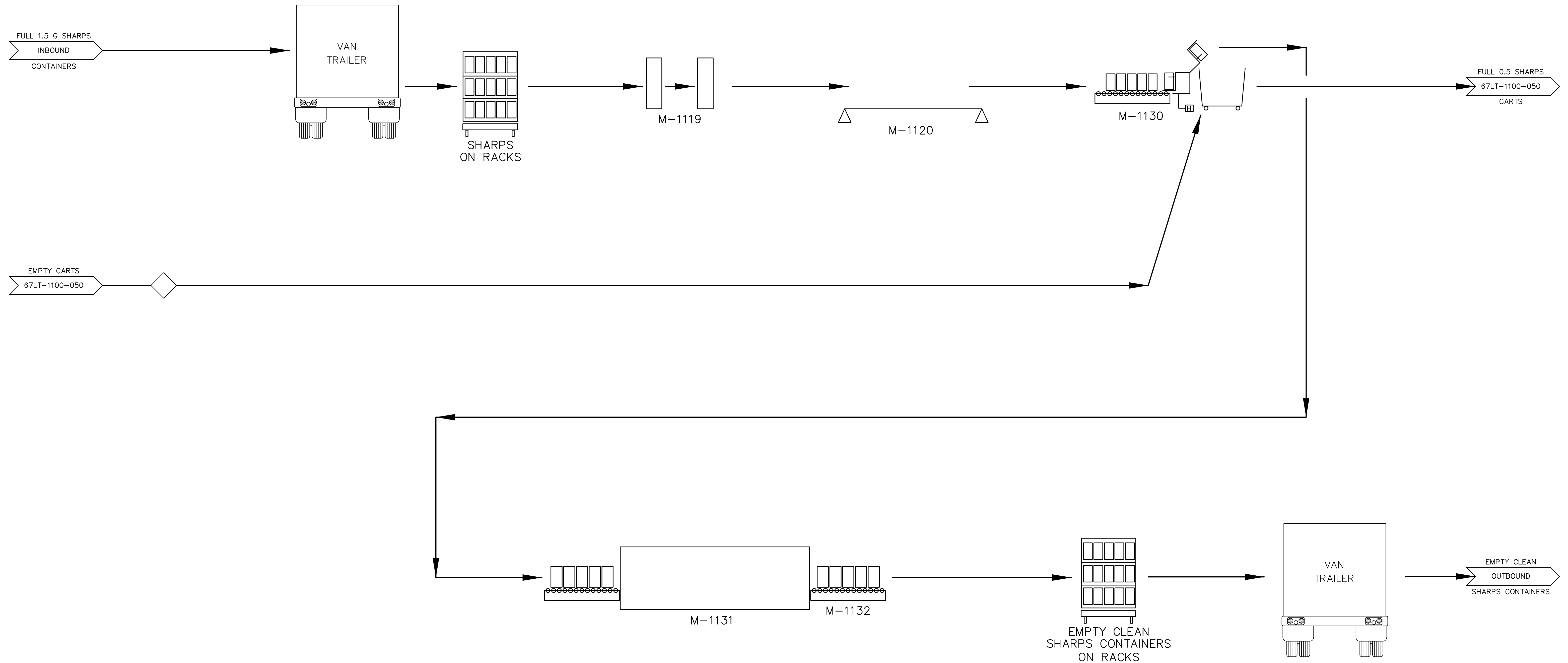
M-1119
RADIATION DETECTOR
ALSO USED FOR 10/17
400 cps PER uR/h
120 V, PLASTIC

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

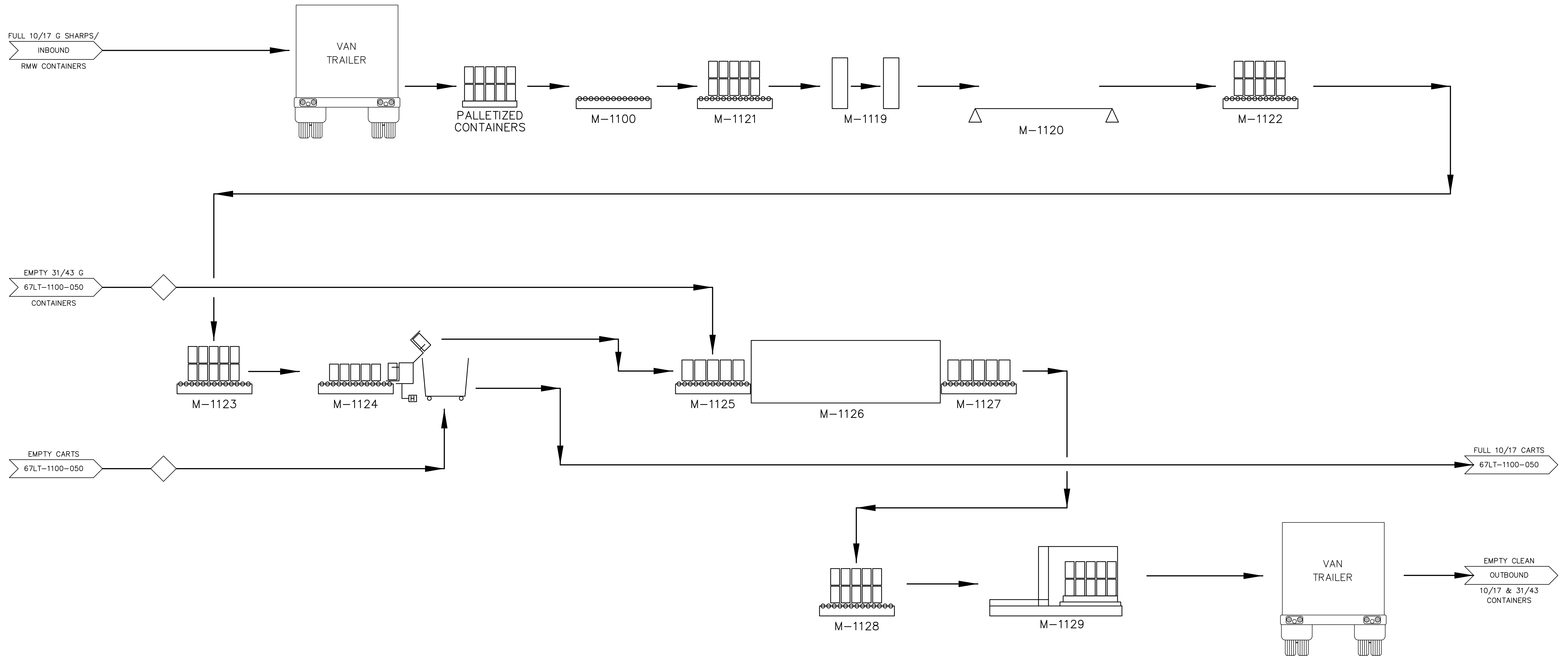


STREAM NO.	◇	◇	◇	◇	◇	◇	◇	◇	◇
STREAM NAME									
TEMPERATURE, °F									
PRESSURE, psig									
CONTINUOUS/BATCH									

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		

- 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

CleanHarbors [®]				TITLE CLEAN HARBORS LAPORTE, TX MEDICAL WASTE FACILITY PROCESS FLOW DIAGRAM RMW LARGE WASHER	
THIS DRAWING IS THE PROPERTY OF CLEAN HARBORS LA PORTE, TX ANY INFORMATION CONTAINED HEREON MAY NOT BE COPIED OR USED WITHOUT WRITTEN PERMISSION OF OWNER.		DRAWN K.M.C.		CHECKED J.W.C.	
SCALE NONE		DATE 08/10/21		DRAWING NO. 67LT-1100-051	
REV. A		PRELIMINARY DESIGN DESCRIPTION		REV. A	
REFERENCE DRAWINGS		K.M.C. DRAWN BY		DATE APPR. BY	

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

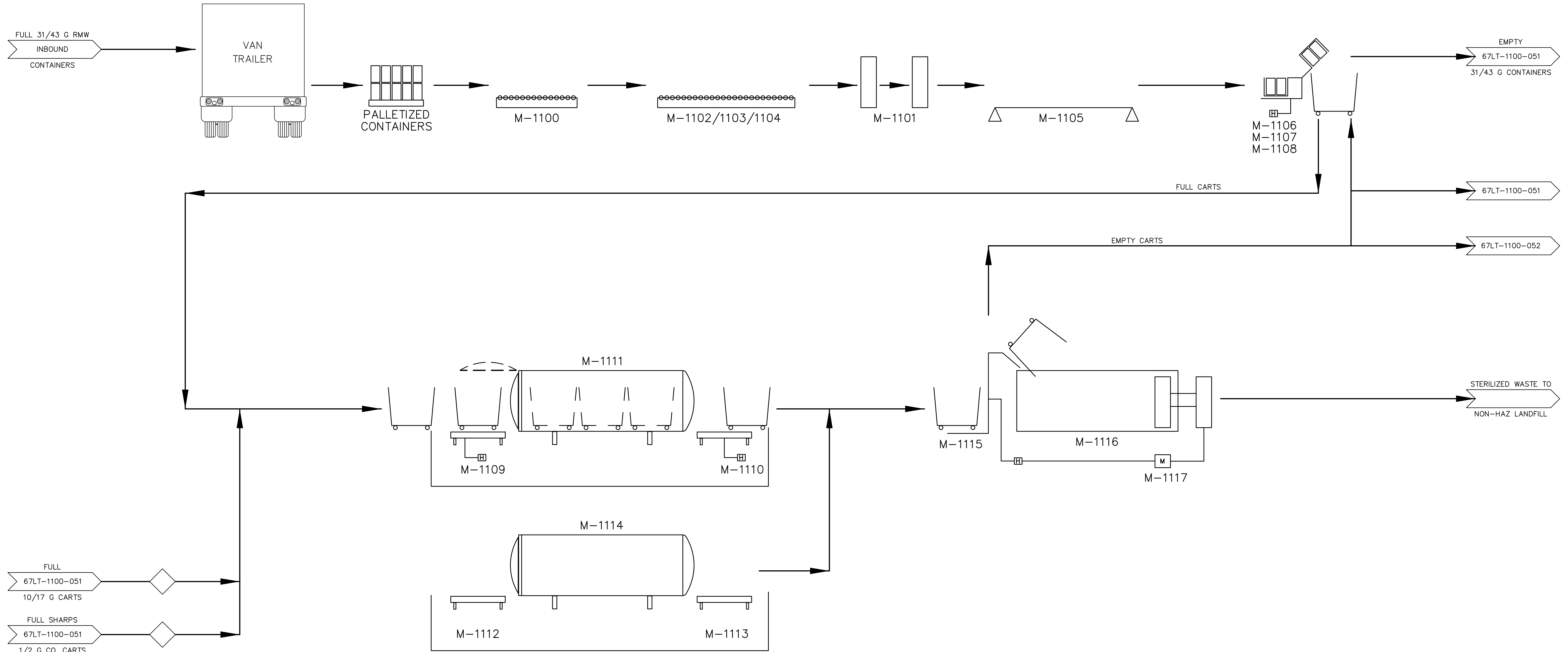
M-1109/1110/1112/1113
HYDRAULIC BRIDGES
CARBON STEEL, PROVIDED BY
AUTOCLAVE ?-----

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



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.




Jeffrey W. Bullock, Secretary of State

3523542 8300

SR# 20213796398

You may verify this certificate online at 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 [FIND](#)
e.g. 9900 Northwest Freeway, Houston, TX 77092

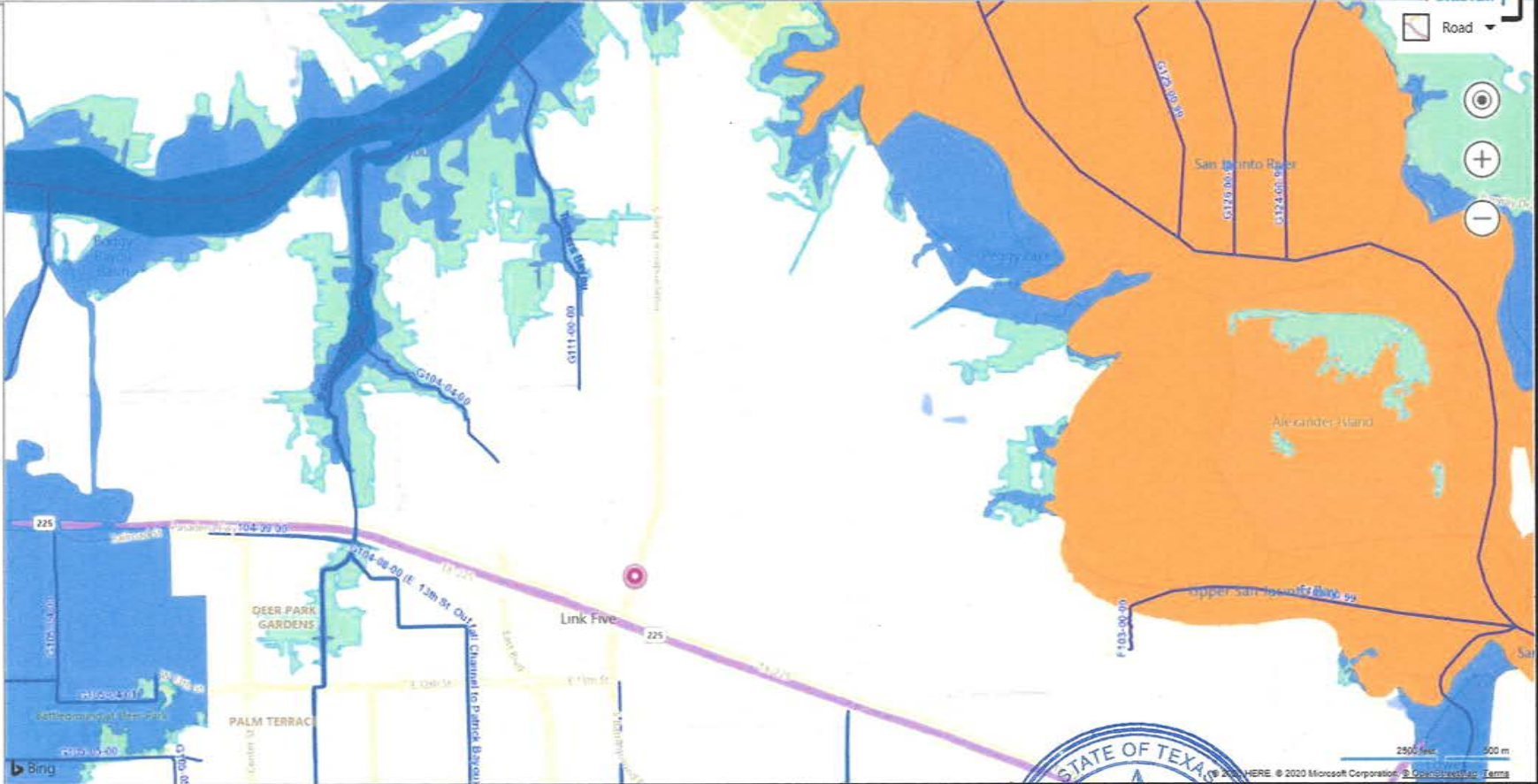
MAP VIEW OPTIONS - Select One

- 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

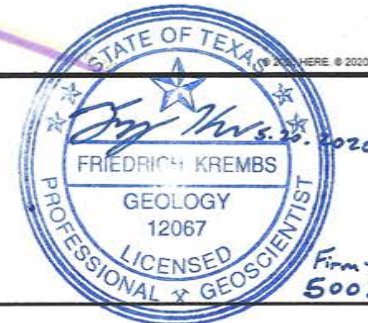
[Reset to County-Level View](#) [Disclaimer](#)

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



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

February 8, 2022

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 La Porte, LLC

Dear Mr. Wemple:

Clean Harbors La Porte, 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 at desha.david@cleanharbors.com or (423) 413-1218.

Sincerely,

A handwritten signature in blue ink, appearing to read "David A. DeSha".

David A. DeSha
Clean Harbors Environmental Services, Inc.

cc: Facility Files



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 Class 2 Modification	
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	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)	
		ventis@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:	ventis@cleanharbors.com							
36. Telephone Number			37. Extension or Code		38. Fax Number <i>(if applicable)</i>			
(281) 884-5500			5519		() -			

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 <i>(In Print)</i> :	David DeSha	Phone:	(423) 413- 1218
Signature:		Date:	2/8/2022



Attachment 14

Your transaction is complete. Thank you for using TCEQ ePay.

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt and the vouchers for your records. An email receipt has also been sent.

Transaction Information

Trace Number: 582EA000462714
Date: 12/01/2021 09:52 AM
Payment Method: CC - Authorization 0000011211
ePay Actor: DAVID DESHA
Actor Email: desha.david@cleanharbors.com
IP: 155.203.3.125
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

Click on the voucher number to see the voucher details.

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
TCEQ Amount:			\$3,233.00

[ePay Again](#)

[Exit ePay](#)

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt for your records.

Your transaction is complete. Thank you for using TCEQ ePay.

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt and the vouchers for your records. An email receipt has also been sent.

Transaction Information

Trace Number: 582EA000462722
Date: 12/01/2021 10:06 AM
Payment Method: CC - Authorization 0000059624
ePay Actor: DAVID DESHA
Actor Email: desha.david@cleanharbors.com
IP: 155.203.3.125
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

Click on the voucher number to see the voucher details.

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
TCEQ Amount:			\$150.00

[ePay Again](#)

[Exit ePay](#)

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt for your records.



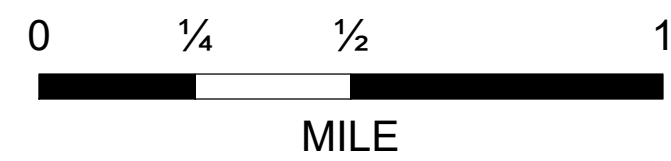
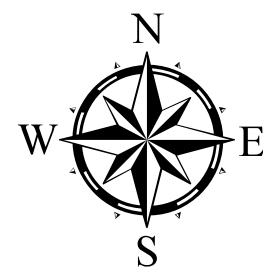
Attachment 15

ZONING

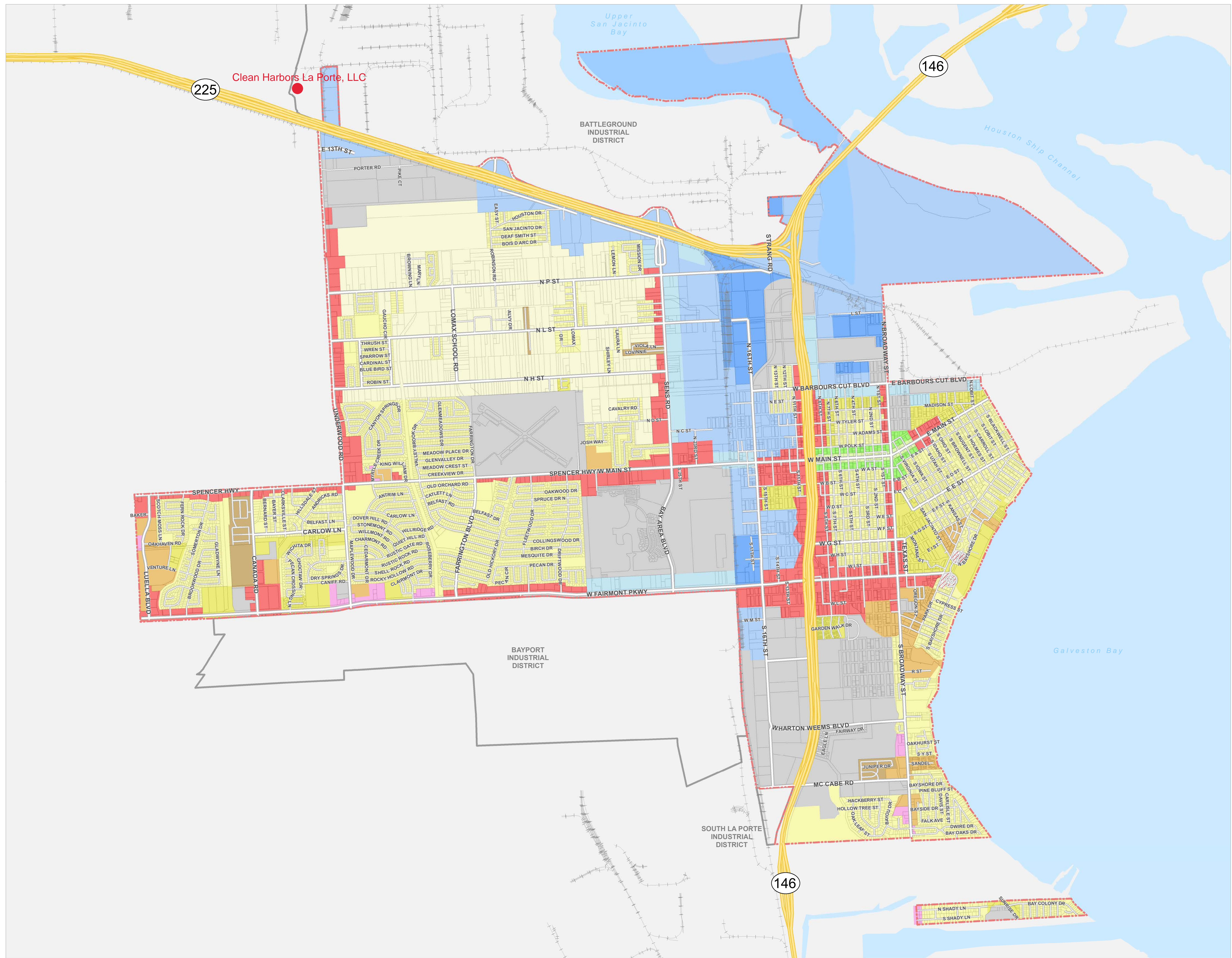
DECEMBER 2020

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



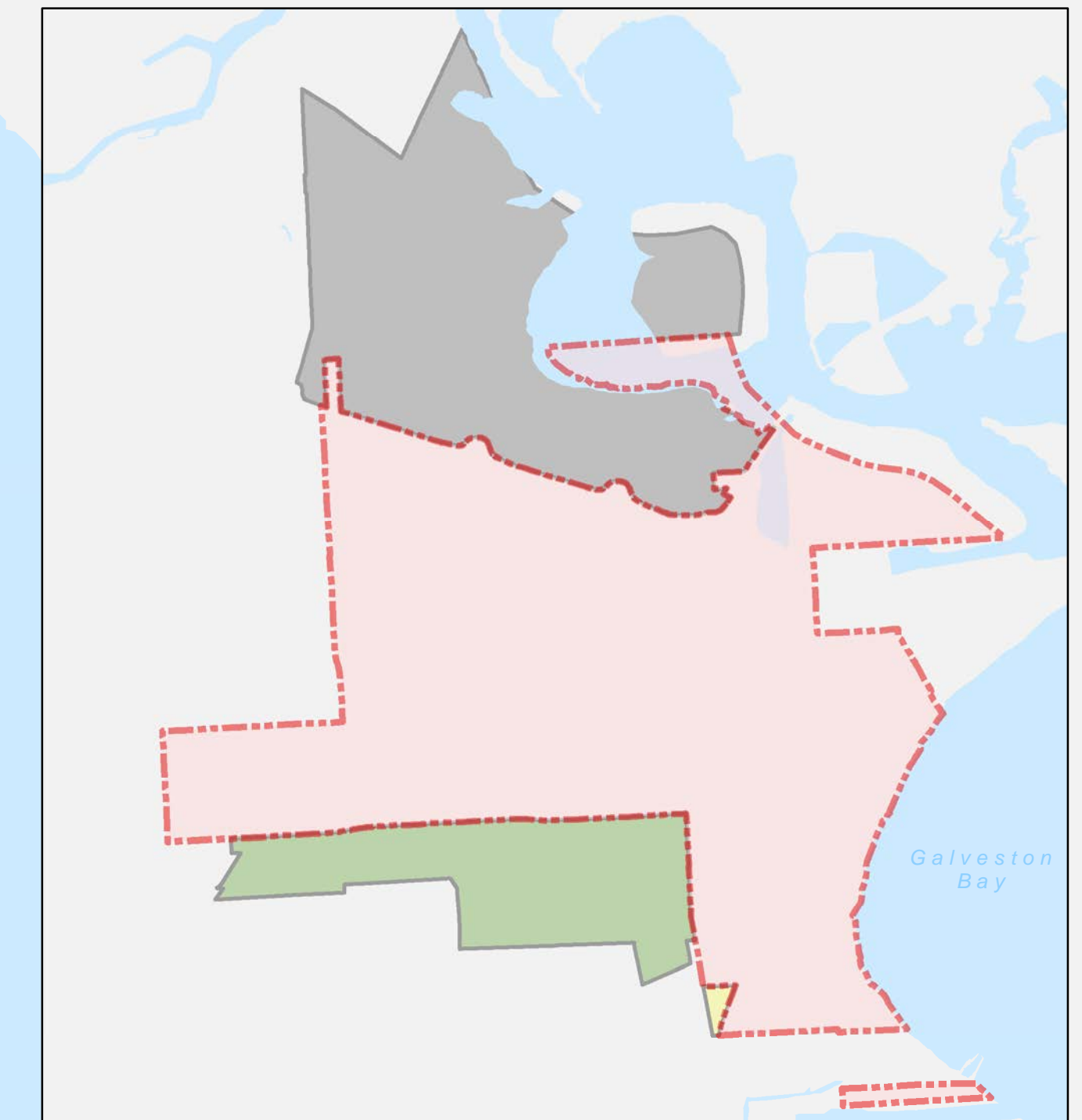
Disclaimer: This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries. Gov. C. §2501.102. The user 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.










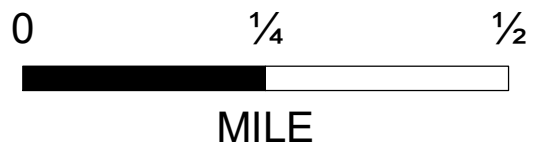
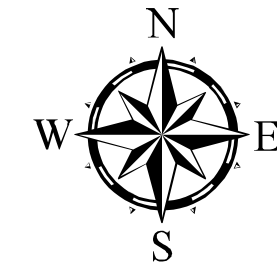


BATTLEGROUND INDUSTRIAL DISTRICT

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.

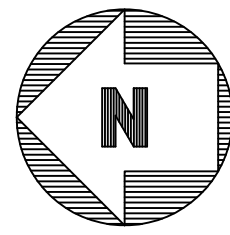
CERTIFIED, this 17th day of November 2021



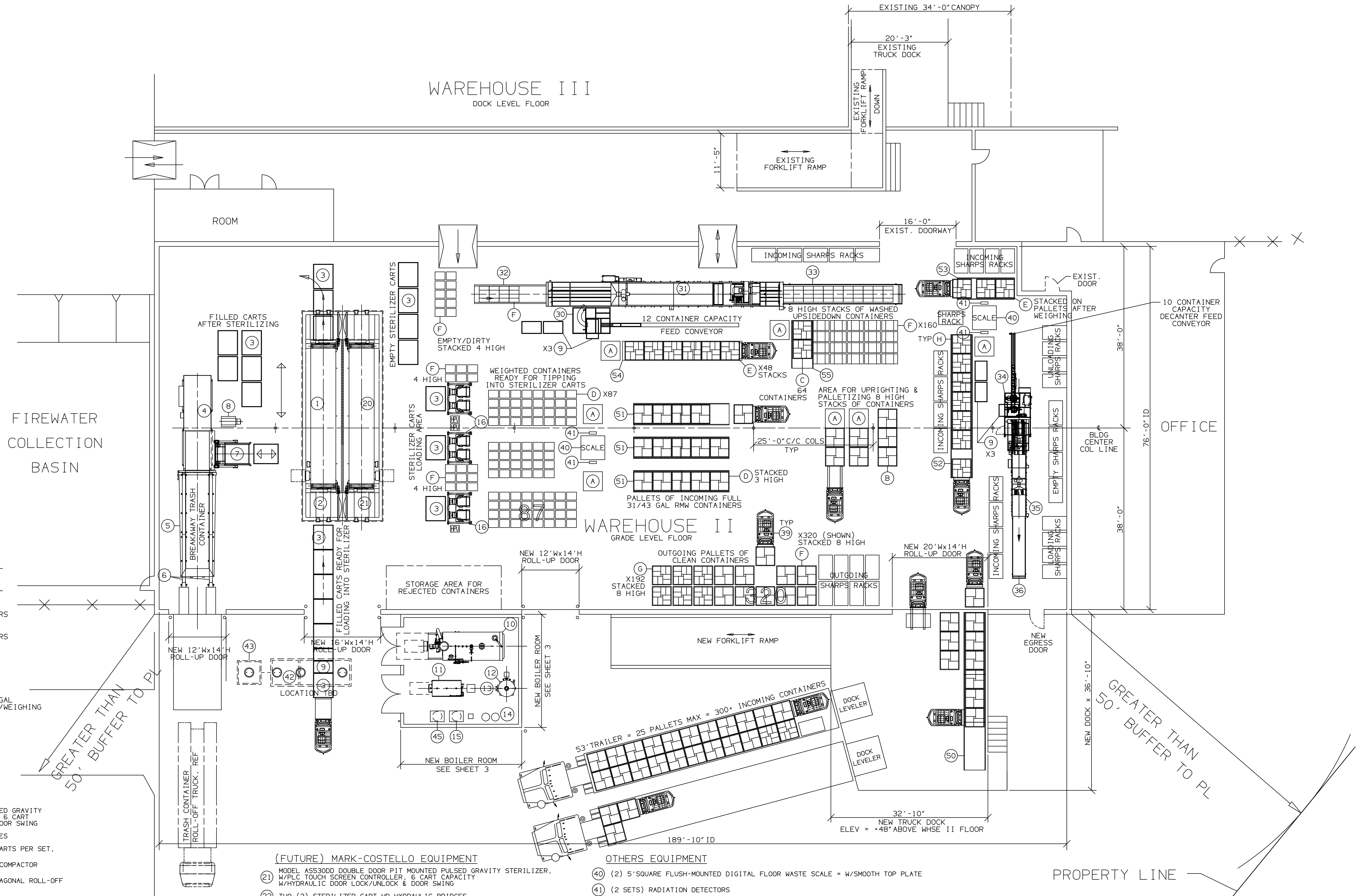
Michael R. McDonald
Assistant Secretary



Attachment 17



WAREHOUSE I I
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 AS530DD DOUBLE DOOR PIT MOUNTED PULSED GRAVITY STERILIZER, W/PLC TOUCH SCREEN CONTROLLER, 6 CART CAPACITY, W/HYDRAULIC DOOR LOCK/UNLOCK & DOOR SWING & BRINE TANK
- (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) W&D SERIES 2150D 150HP X 150PSIG NG FIRED SCOTCH MARINE, FIRE-TUBE STEAM BOILER (SPEC'D & FURNISHED BY MARK-COSTELLO)
- (11) W&D 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, 5HP/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 AS530DD 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/TIS SHARPS CONTAINERS
- (35) UNIKON TUNNEL WASHER FOR REHRIG SS/TIS SHARPS CONTAINERS W/CONTAINER DISCHARGE CONVEYOR OR SLIDE TABLE
- (36) WASHER 10/17 GAL CONTAINERS DISCHARGE CONVEYOR OR SLIDE TABLE

CWS EQUIPMENT

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 INTERCEPTOR (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 ONTO PALLETS

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

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

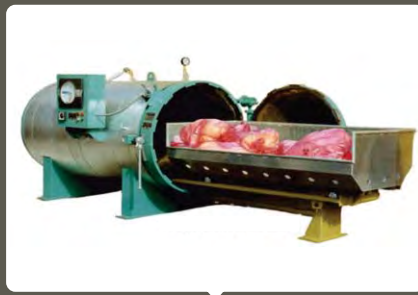
TITLE: MC-AS530DD GRAVITY STERILIZER
FACILITY PLAN - OPTION A6
W/2 CWS DECANTERS & 2 UNIKON SINGLE
LANE WASHERS

OS	UN	JAG	DATE:	OS	UN	JAG	DATE:
0	11/02/21	FOR APPROVAL		OS	UN	JAG	11/02/21
REV	DATE	DESCRIPTION		BY	CHK	APR	SCALE: 1/2" = 1'-0"

DRAWING NO. D-190004-A6 SHT 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



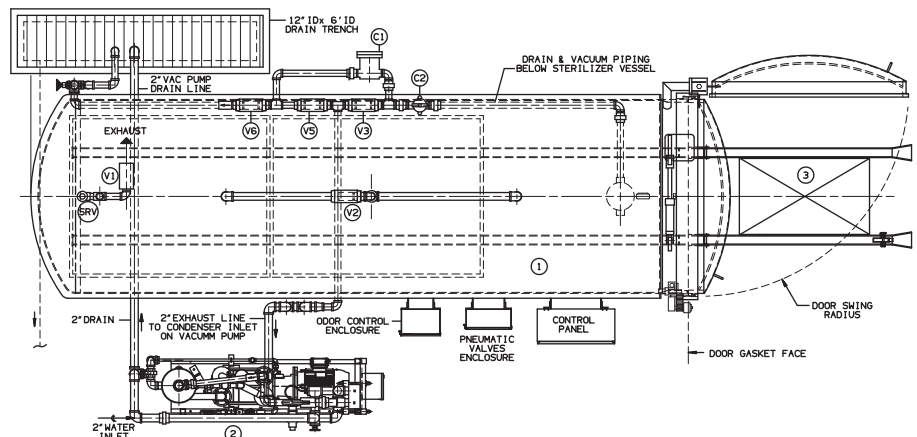
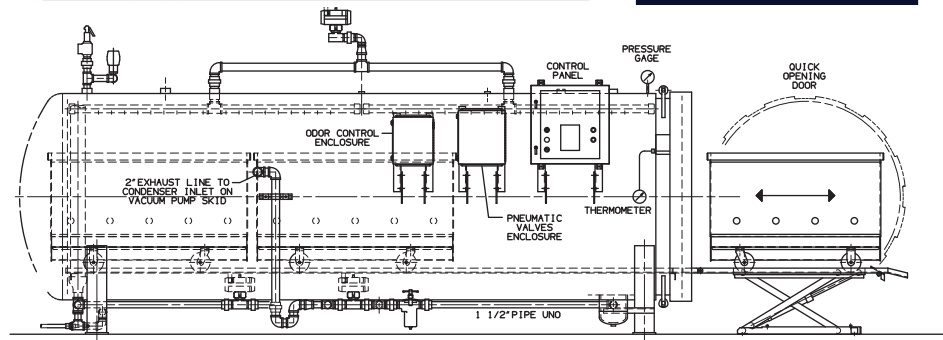
Why Sterilize?

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.



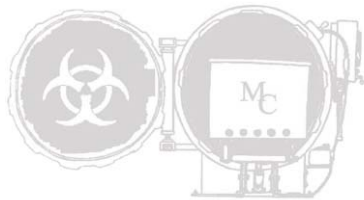
How it works-

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.

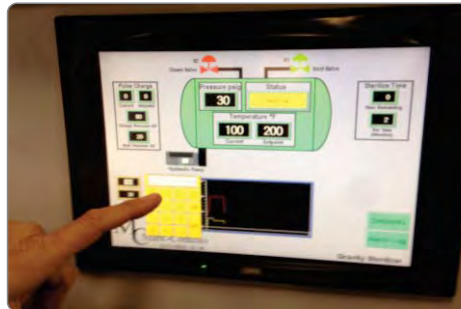
High pressure steam is introduced into the chamber, which is designed to withstand high pressures. Because air is an effective insulator, elimination of the air inside the chamber is important to ensure the penetration of the steam into the wastes. This is achieved by gravity displacement or by a vacuum 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).

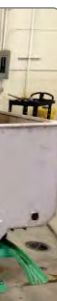
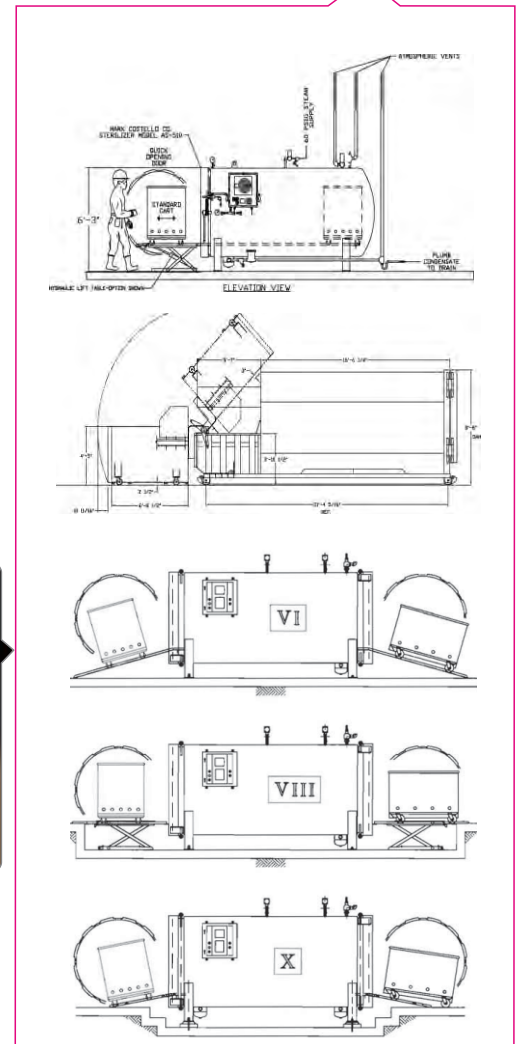
Together with medical service facilities, the list of applications includes international airports and ports, pharma companies, laboratories and regional waste commercial processing centers.



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.

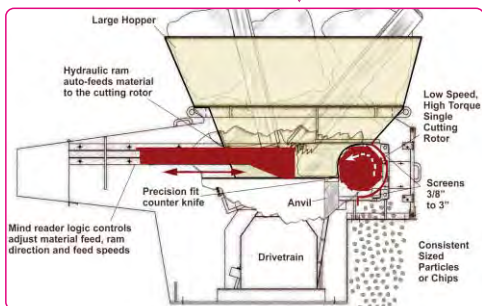


Ancillary Equipment:

- ✎ 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

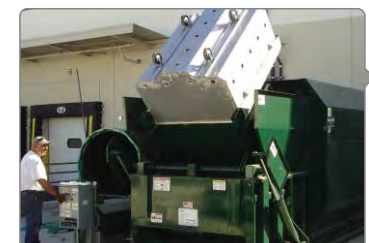
How much technology do you need or want? Mark-Costello allows you to choose the level of sophistication that is best suited for your needs. We offer a **basic system** which does not require any knowledge in computers, with a digital printer that registers the time and temperature of the cycle. However, 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

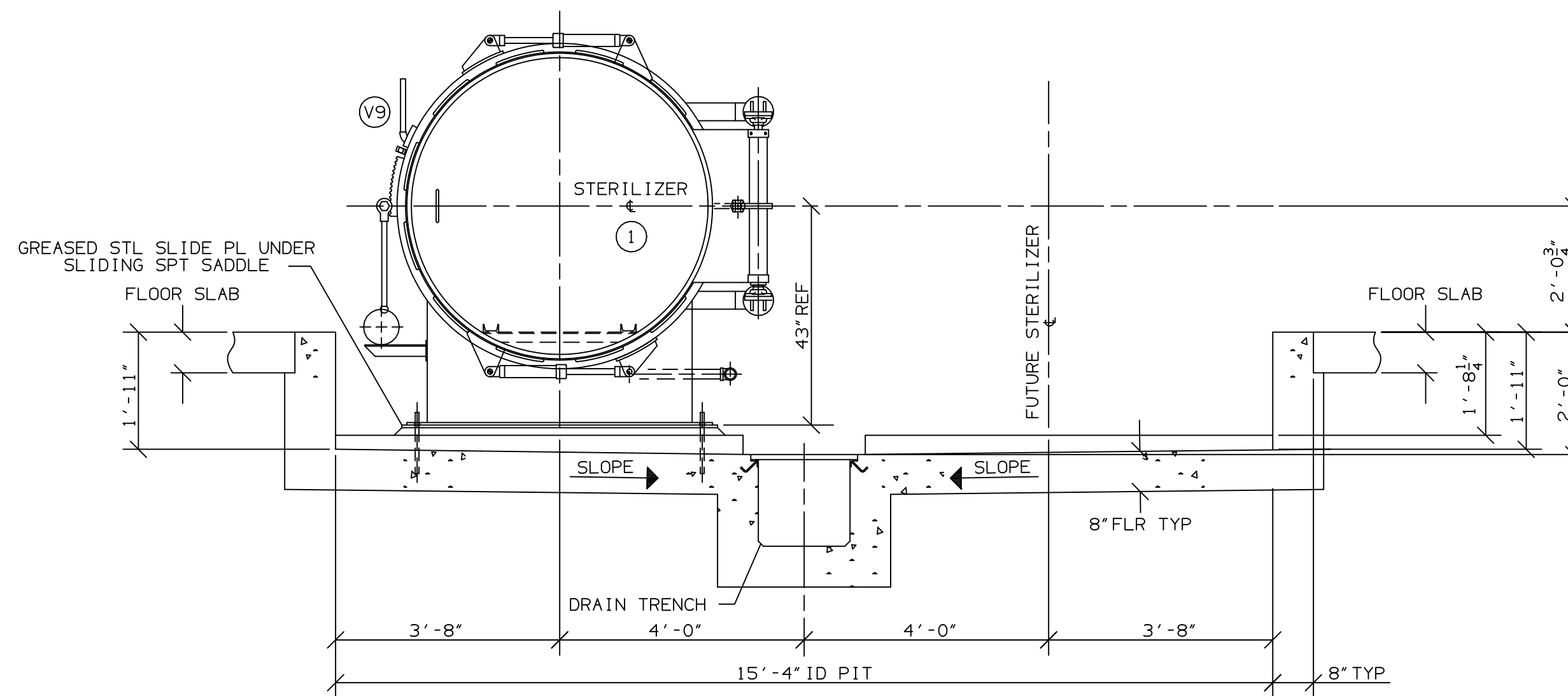
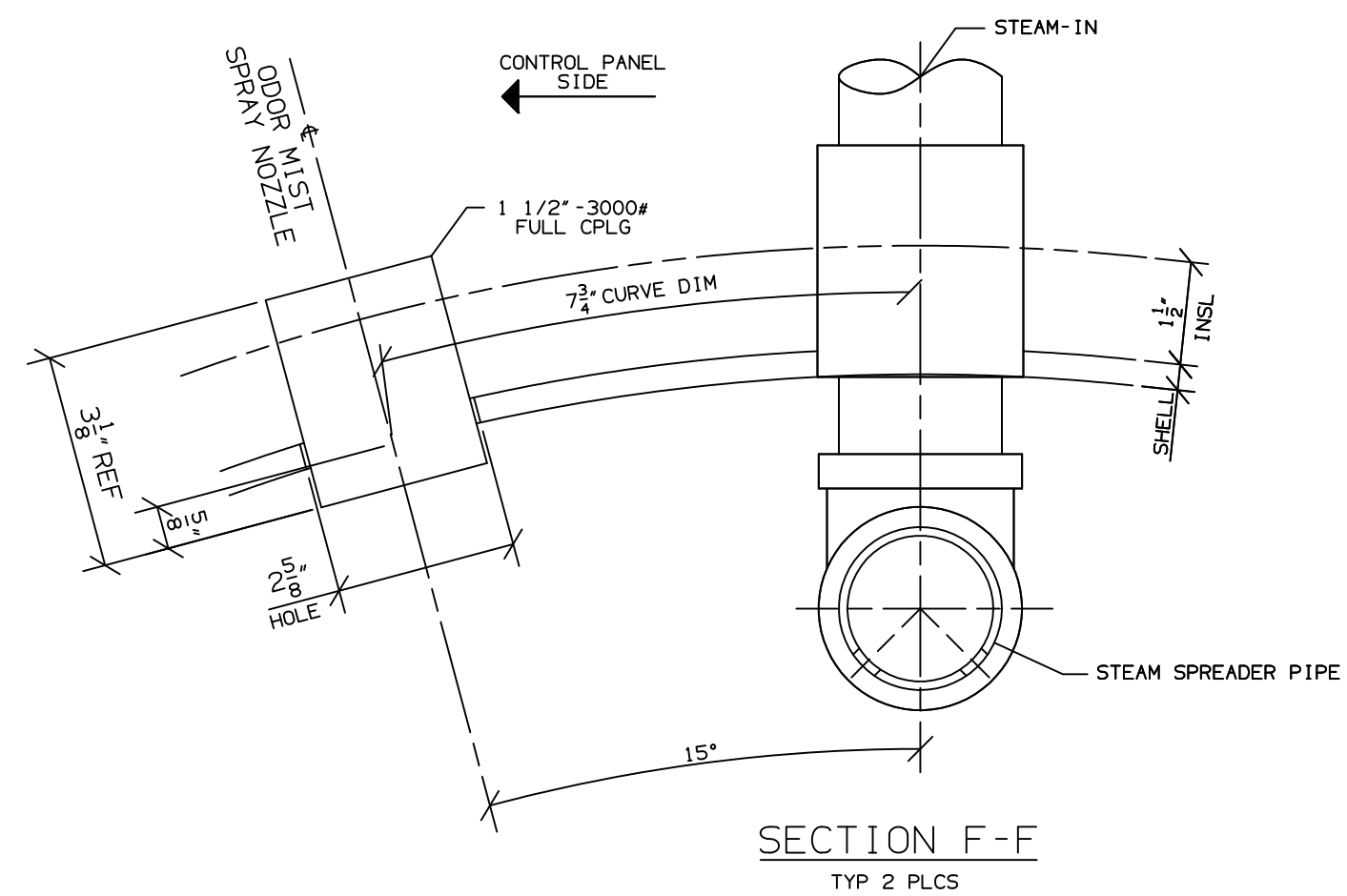


Telephone: 562 630-7950
Fax: 562 630-7960
15351 Texaco Ave.
Paramount, Ca.

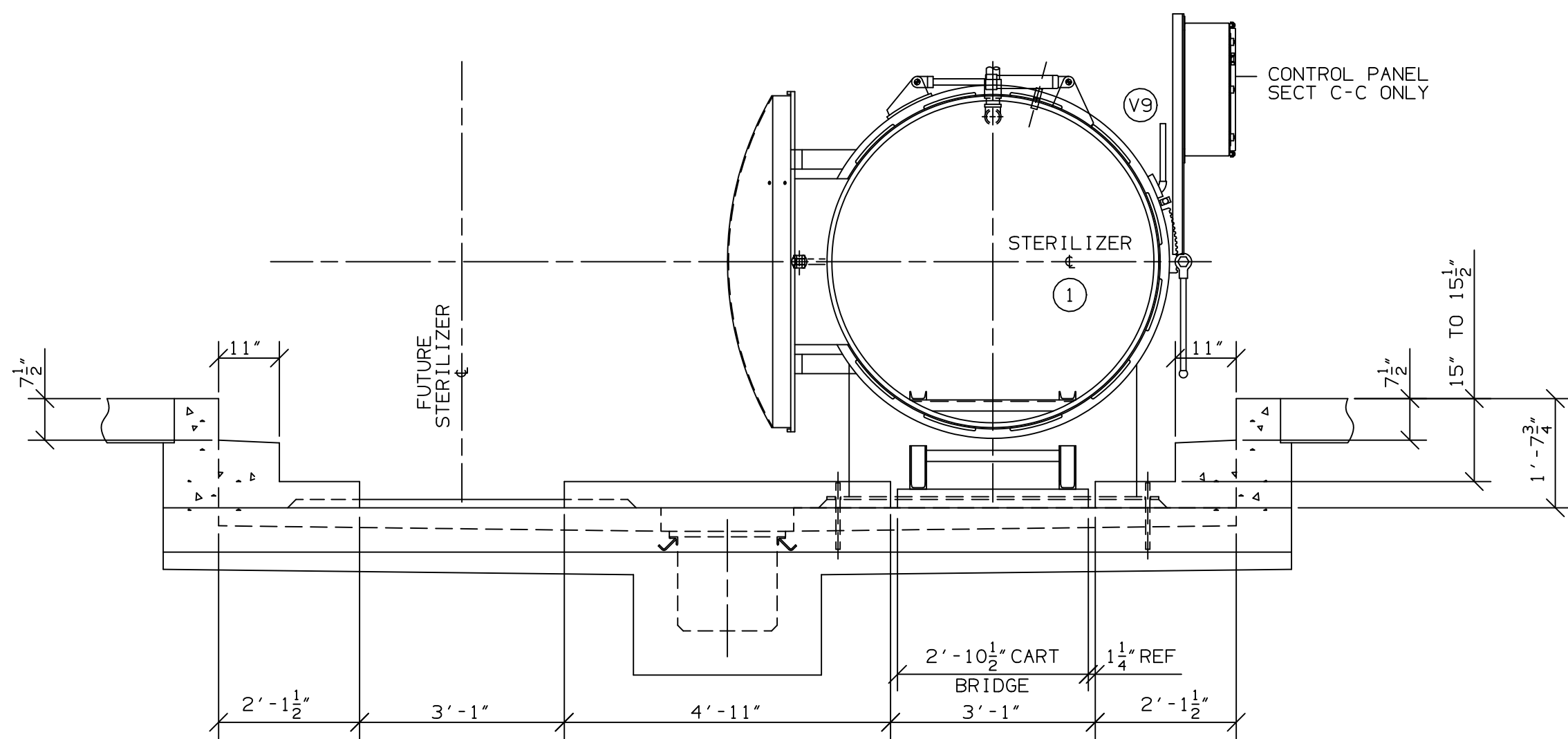
www.mark-costello.com



MC THE MARK COSTELLO CO.
Systems & Solutions Since 1956

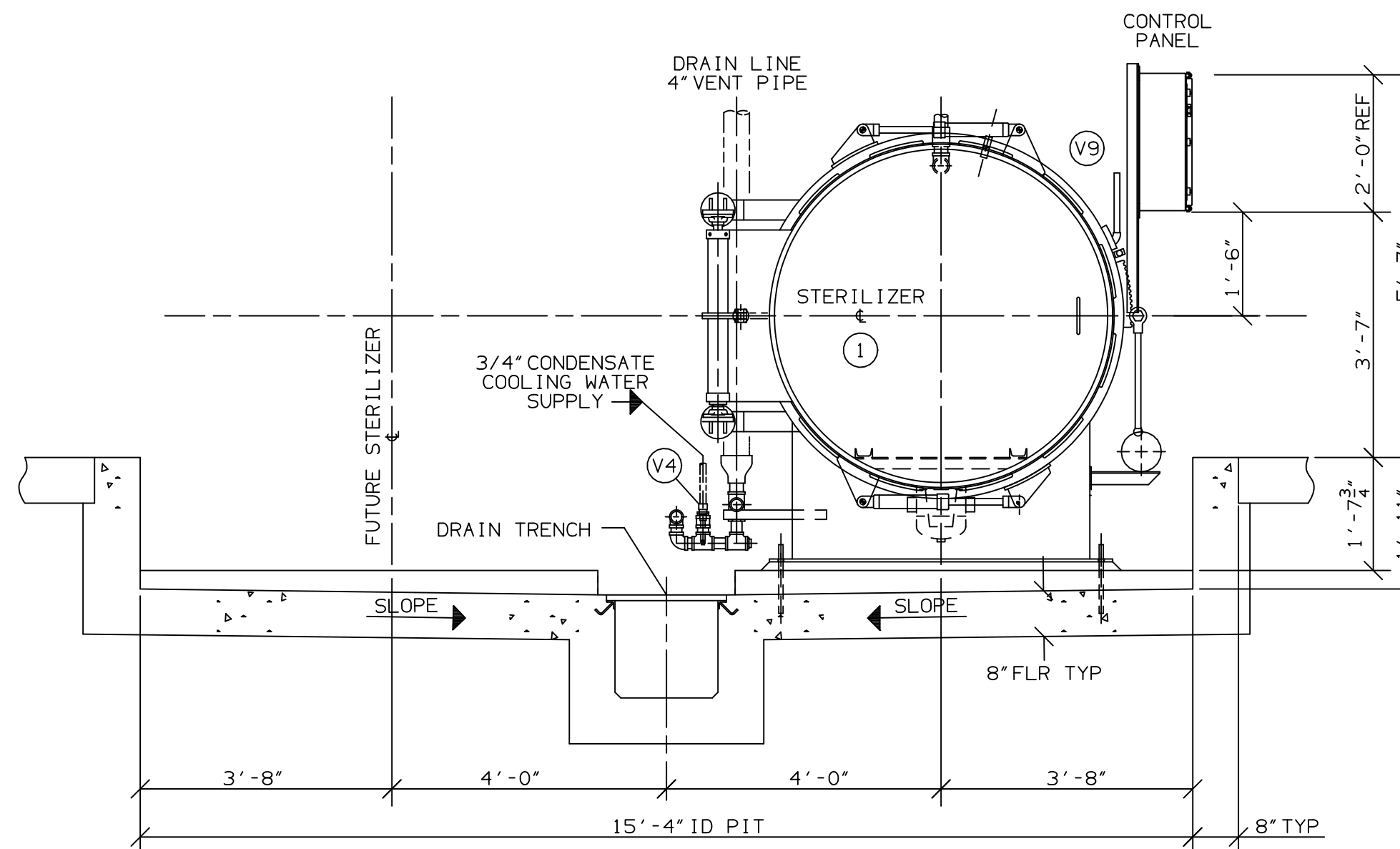


SECTION D-D
DOOR SHOWN AT CLOSED POSITION
PIPING NOT SHOWN



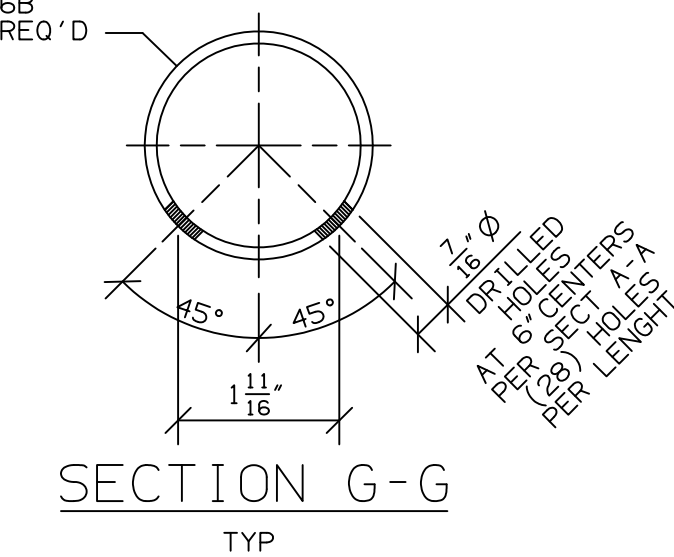
SECTION C-C
DOOR SHOWN AT OPENED POSITION

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



SECTION G-G
TYP

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.	SHT
REV	DATE	DESCRIPTION	BY	CHK	APR	DATE: 10/29/21	D-190004	2
						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 set against a light blue rectangular background.

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



Product Specifications:

Product	Width	Length	Height
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.

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 washed. 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.



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:

Product	Width	Length	Height
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)
- Air knife (tube) with adjustable air knives and 2 ventilators for increased capacity/pressure

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
- Water connection: left, seen from machine in-feed
- Steam connection: left, seen from machine in-feed
- Emergency stops placed according to machine guidelines
- Machine on adjustable feet
- Machine manual as hardcopy
- Machine manual digital in English

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
Heating circulation rinse:	1 x 1" >1 - <3 bar steam
Heating rinse:	1 x 1" >1 - <3 bar steam



AGREEMENT AND TERMS OF DELIVERY

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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 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.

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Best regards,

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



Product Specifications:

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



Rehrig 17 Gallon (open width 640 mm)	318	508	660
--------------------------------------	-----	-----	-----



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)
- Air knife (tube) with adjustable air knives and 2 ventilators for increased capacity/pressure

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
- Water connection: left, seen from machine in-feed
- Steam connection: left, seen from machine in-feed
- Emergency stops placed according to machine guidelines
- Machine on adjustable feet
- Machine manual as hardcopy
- Machine manual digital in English

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
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, Holland (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.

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 washed. All wear parts are excluded from the warranty. The warranty covers only material expenses for a period of 12 months from shipment. 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.



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@customwashsolutions.com



Product Specifications (approx.):

Product	Width	Length	Height
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

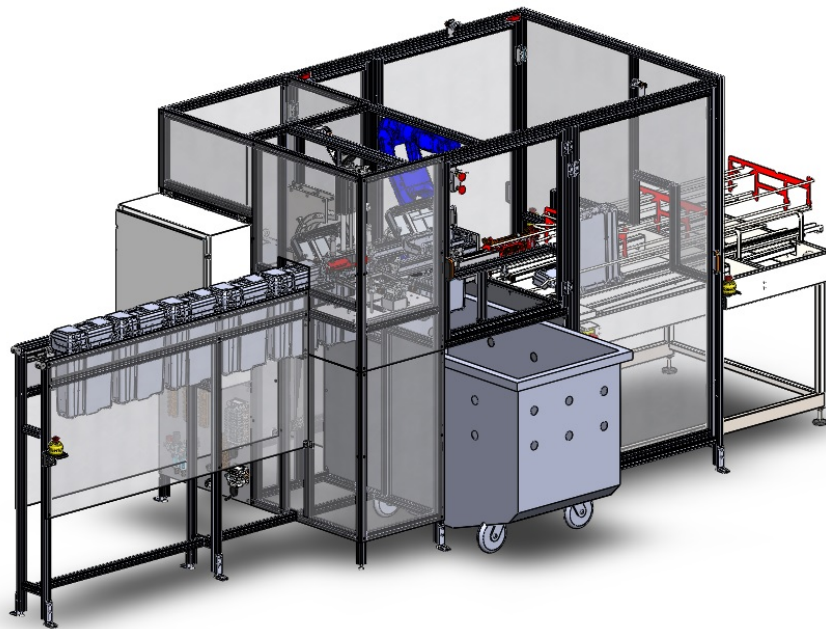


- 480 VAC/60hz/3ph
- Main Enclosure and operator panels

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

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.



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



Product Specifications (approx.):

Product	Width	Length	Height
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

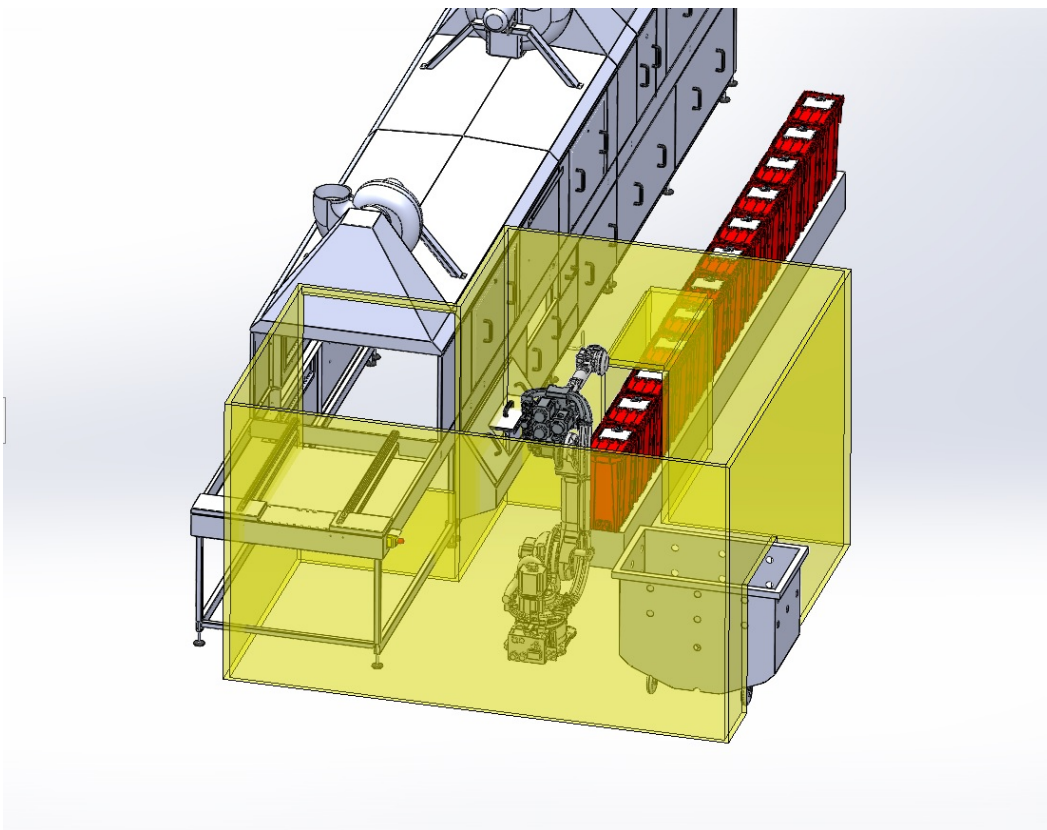


Figure 1. Concept layout shown for 10 and 17 gallon. Details not shown.



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

Date February 7, 2022

J. W. Caldwell
Texas PE # 94038



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 V.K. - Miscellaneous Units

Permit Unit No.*	Miscellaneous Unit	N.O.R. No.	Storage, Processing, and/or Disposal	Waste Nos. ¹	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 Release Unit 2 ⁺	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.

**Medical waste will be managed in accordance with 30 TAC 326. Regulated medical waste mixed with RCRA waste will be managed under RCRA rules.

Table VII.A. - Unit Closure & Section VII Closure Plan
(Replacement Pages)

Table VII.A. - Unit Closure

For each unit to be permitted, list the facility components to be decontaminated, the possible methods of decontamination, and the possible methods of disposal of wastes and waste residues generated during unit closure:

Equipment or HWM Unit	Possible Methods of Decontamination ¹	Possible Methods of Disposal ¹
Warehouse I:		
Waste Containers	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Secondary Containment Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Container Storage Racks	Disassembly and hydroblasting	Landfill, Recycling
Wooden pallets	send offsite with containers	Incineration, Landfill, Recycling
Loading/Unloading Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Solid Decontamination Waste	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Warehouse II:		
Waste Containers	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Secondary Containment Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Autoclaves 1 & 2	Disassembly and hydroblasting	Landfill, Recycling
Wooden Pallets	send offsite with containers	Incineration, Landfill, Recycling
Solid Decontamination Waste	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Warehouse III:		
Waste Containers	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Secondary Containment Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Container Storage Racks	Disassembly and hydroblasting	Landfill, Recycling
Wooden Pallets	send offsite with containers	Incineration, Landfill, Recycling
Loading/Unloading Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Solid Decontamination Waste	Solid Decontamination Waste	Incineration, Landfill, Off-site Treatment

Equipment or HWM Unit	Possible Methods of Decontamination ¹	Possible Methods of Disposal ¹
Waste Treatment Tanks & ancillary equipment	Landfill, Recycling	
Waste Liquids	Pump liquids and remove for off-site disposal	Incineration, Landfill, Off-site Treatment
Tank Surfaces (interior and exterior)	Initial rinse followed by hydroblasting	Incineration, Landfill, Off-site Treatment
Secondary Containment Area	Hydroblasting	Incineration, Landfill, Off-site Treatment
Solid Decontamination Waste	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Miscellaneous Areas:	Incineration, Landfill, Off-site Treatment	
Drum Staging Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Cylinder Release Units	Disassembly and hydroblasting	Incineration, Landfill, Recycling

TABLE VII.A UNIT CLOSURE

For each unit to be permitted, list the facility components to be decontaminated, the possible methods of decontamination, and the possible methods of disposal of waste and waste residues generated during unit closure.

Equipment of HWM Unit	Possible Methods of Decontamination ¹	Possible Methods of Disposal ¹
Warehouse 1:		
Waste Containers	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Secondary Containment Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Container Storage Racks	Disassembly and hydroblasting	,Landfill, Recycling
Wooden pallets	send offsite with containers	Incineration, Landfill, Recycling
Loading/Unloading Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Solid Decontamination Waste	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Warehouse II:		
Waste Containers	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Secondary Containment Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Container Storage Racks	Disassembly and hydroblasting	Landfill, Recycling
Wooden Pallets	send offsite with containers	Incineration, Landfill, Recycling
Solid Decontamination Waste	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Warehouse III:		
Waste Containers	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Secondary Containment Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Autoclaves 1 & 2	Disassembly and hydroblasting	Landfill, Recycling
Wooden Pallets	send offsite with containers	Incineration, Landfill, Recycling
Loading/Unloading Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Solid Decontamination Waste	Solid Decontamination Waste	Incineration, Landfill, Off-site Treatment
Waste Treatment Tanks & ancillary equipment		Landfill, Recycling
Waste Liquids	Pump liquids and remove for off-site disposal	Incineration, Landfill, Off-site Treatment
Tank Surfaces (interior and exterior)	Initial rinse followed by hydroblasting	Incineration, Landfill, Off-site Treatment
Secondary Containment Area	Hydroblasting	Incineration, Landfill, Off-site Treatment
Solid Decontamination Waste	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Miscellaneous Areas:		Incineration, Landfill, Off-site Treatment
Drum Staging Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Cylinder Release Units	Disassembly and hydroblasting	Incineration, Landfill, Recycling

¹Applicants may list more than one appropriate method.

Note: The following assumptions will be made with regard to estimating the cost for closure of the facility.

1.1 The facility will be at the maximum permitted capacity at the time of closure. This will include the following:

- 1,064,270 gallons of waste in stored containers.
- 2,200 gallons of bulk liquid waste in three treatment tanks and one wet scrubber.
- An additional 26,400 gallons of waste in containers will be staged in the loading/unloading areas.

All containers are hazardous liquids and solids in the following ratios:

- RCRA solids – 30%
- RCRA liquids – 70%

1.2 All costs were calculated using CostPro 6.0.

1.3 The cost for off-site disposal of containerized waste is listed below and is based on the 2009 CostPro 6.0 costs for T&D and adjusted for inflation.

1.4 All floors, berms and secondary containment systems will be pressure washed.

1.5 All containers stored and staged at the facility will be placed on pallets and shipped off- site.

1.6 The three treatment tanks will contain minimal solids that can be slurried when the liquid in emptied.

1.7 The decontamination of the tanks will be accomplished by a preliminary wash, followed by pressure washing of the tank interior.

1.8 Tanks are located in an existing warehouse. Containment area decontamination is covered in the container areas costs.

1.9 Once cleaned, the tanks will be shipped offsite for disposal.

1.10 Tanks consist of R1 @ 200 gal, R1A @ 1500 gal & R2 @ 500 gal

1.11 Closure costs associated with Regulated Medical Waste processing conducted in the current RCRA permitted container storage area (Warehouse II). Because the current closure costs associated with warehouse II under RCRA activity far exceeds any effect on closure cost conducting Regulated Medical Waste processing, the facility has elected to maintain the higher closure cost associated with RCRA operations of that storage unit. Any and all closure activity required for Regulated Medical Waste is fully covered under current RCRA closure costs. See the RMW Registration Application for additional details.

Assumptions - current Regulated Medical Waste closure cost estimates:

- Maximum on-site inventory of Regulated Medical Waste at closure is estimated at 80,000 lbs.
- Cost of decontamination, testing and certification will remain unaffected under RCRA or Regulated Medical Waste.
- Regulated Medical Waste transportation & disposal is based on third party management estimated at 80,000 lbs = \$94,013, however for financial assurance purposes \$117,187 will continue to be used.

Table XII.A. - Hazardous Waste Units
(For Application Fee Calculations)

Table XII.A. - Hazardous Waste Units (For Application Fee Calculations)

Verbal Description of Unit	Rated Capacity	Surface Acreage ¹	# of Unit Types ²	Identical Unit Justification ³
Warehouse II (CSA1)	264,970 gallons	0.33	1	
Autoclaves	6,000 lbs /Cycle	N/A	2	
		Total ⁴ 0.33	Total ⁴ 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 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

⁵Minor amendment, Class 1, or Class 1¹ modification - \$100.....\$ _____ 50

⁶Cost 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

The person identified below would be considered as affected persons.

1. LOVES TRAVEL STOP & COUNTRY STORE INC
PO BOX 26210
OKLAHOMA CITY OK 73126-0210
2. LUBRIZOL ADVANCED MATERIALS INC.
TAX DEPT APB BLDG FL 4A
600 INDEPENDENCE PARKWAY
LA PORTE TX 77571
3. SOUTHERN PACIFIC RAILROAD COMPANY
UNION PACIFIC RAILROAD CO
1400 DOUGLAS ST STOP 1640
OMAHA NE 68179-1001
4. TED L BOOHER
RAPID ENVIRONMENTAL SERVICES
PO BOX 687
DEER PARK TX 77536-0687
5. TED BOOHER
PO BOX 687
DEER PARK TX 77536-0687



Attachment 6

Clean Harbors La Porte, LLC
30 TAC 39.413 Mailing List (Other)

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

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 County Commissioner
1001 Preston St Ste 924
Houston, TX 77002-1863

Texas Department of Health:

Texas Department of State Health Services
PUBLIC HEALTH REGION 6/5 - Houston
Carlos Plasencia, MD, MSPH, Regional Medical Director (Mail Code 1906)
5425 Polk, Suite J
Houston, Texas 77023

Texas Parks and Wildlife Department:

Texas Parks and Wildlife Department
4200 Smith School Road
Austin, TX 78744

Texas Railroad Commission:

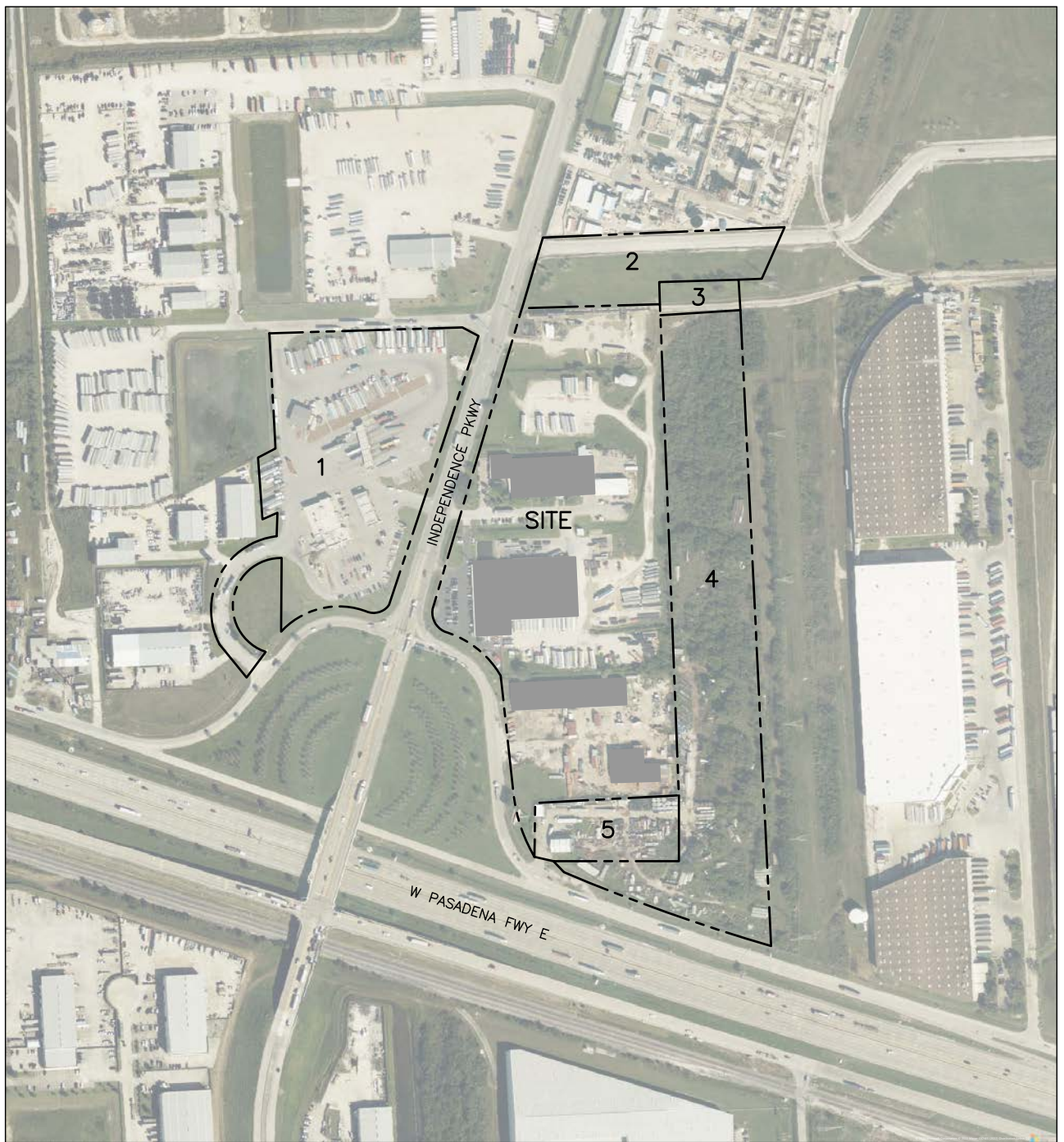
Railroad Commission of Texas
P.O. Box 12967
Austin, Texas 78711-2967

The Applicant:

Steve Venti, Director Facility Operations
Clean Harbors La Porte, LLC
500 Independence Parkway South
La Porte, TX 77571



Attachment 7



NOTES:

ADJACENT LANDOWNER INFORMATION WAS ASSEMBLED FROM HARRIS COUNTY APPRAISAL DISTRICT

SITE - CLEAN HARBORS LA PORTE, LLC

ADJACENT LAND USE:

- 1. COMMERCIAL
- 2. UNDEVELOPED
- 3. UNDEVELOPED
- 4. COMMERCIAL
- 5. COMMERCIAL



FIGURE 2

ADJACENT LANDOWNER MAP

**CLEAN HARBORS LA PORTE, LLC
LA PORTE, TEXAS**



Trihydro
CORPORATION
1252 Commerce Drive
Laramie, Wyoming 82070
www.trihydro.com
(P) 307/745.7474 (F) 307/745.7729

Drawn By: PME | Checked By: FJK | Scale: 1" = 500' | Date: 1/28/22 | File: 69V-ADJACENT-LAND-OWNER



Attachment 8

Description of Proposed Application Changes		
Category	Brief Description of Proposed Revision	Regulatory Citation applicable for Class 2 Modification*
Containers	Increase in secondary containment capacity for Warehouse II (hazardous waste management unit CSA2) without any container storage increase & install RMW autoclaves.	30 TAC §305.69(k)F.2.a.
Other	Operate regulated medical waste treatment & container washing equipment (i.e., not hazardous waste units) in Warehouse II. TCEQ advised to add as Miscellaneous Units.	30 TAC §326, Subchapter F
Other	Additional site legal description & updated site plans - add newly acquired adjacent property & remove existing north & south fencelines to incorporate all owned properties.	30 TAC §305.69(k)A.1.
Other	Inspection Plan - add inspection requirements for the autoclaves.	30 TAC §305.69(k)B.4.
Other	Training Plan - add training for MSW licensed Operator B with specialized RMW courses.	30 TAC §305.69(k)B.5.b
Other	Contingency Plan - update list of emergency coordinators.	30 TAC §305.69(k)B.6.d
Other	Closure Plan - add closure of autoclaves and associated closure cost estimate.	30 TAC §305.69(k)D.1.a

* 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 9

CORPORATE COMMUNICATIONS CENTER, INC.

This is to certify our performance of distribution services for Safety-Kleen Systems, Inc. (Acct D826) for:

Type of Material: Other

Date: 01/31/2022

Subject: Clean Harbors La Porte LLC Modification Public Notice- 67 LT

Reference: 29797

MAIL DISTRIBUTION:

Print and Mail



Other - Clean Harbors La Porte LLC Modification Public Notice- 67 LT - Postage Amount: \$9.86

Annual Report

Form 10-K

Form 10-Q

Other

Proxy

Quarterly

News Release

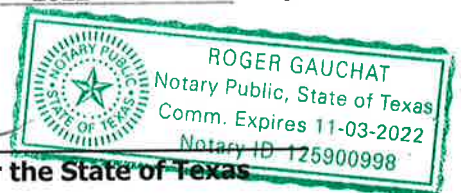
Total copies processed: 17 Total copies mailed: 17

Mailing Date: 01/31/2022 Time: 5:30 PM

Notarized this 31st day of January, 2022 by:

My Commission Expires 11/03/2022


Notary Public for the State of Texas



Corporate Office:
4030 Harry Hines Boulevard
Dallas, TX 75219
(214) 871-2941

Name	Title	Company	Address1	Address2	City	State	Zip
Southern Pacific Railroad Company	Union Pacific Railroad Company		1400 Douglas St.	Stop 1640	Omaha	NE	68179
	Loves Travel Stop & Country Store, Inc.		P. O. Box 26210		Oklahoma City	OK	73126
Texas Department of State Health Services	Public Health Region 6/5 - Houston	Carlos Plasencia, M.D., MSPH	Regional Medical Direct	5425 Polk, Sui	Houston	TX	77023
Umar A. Shah, M.D., MPH, Executive Director	Harris County Public Health Services		2223 W. Loop South		Houston	TX	77027
	Rapid Environmental Services		P. O. Box 687		Deer Park	TX	77536
	DOW Chemical		332 SH 332 East, Tax De	APB Bldg., Fl 4	Lake Jackson	TX	77566
City of La Porte Health Authority	Oscar Boultinghouse, M.D.		604 W. Fairmont Parkway		La Porte	TX	77571
Ted Booher			7815 Highway 225		La Porte	TX	77571
The Honorable Mayor Louis R. Rigby			604 W. Fairmont Parkway		La Porte	TX	77571
The Honorable Carol Alvarado			P. O Box 12068	Capital Station	Austin	TX	78711
	Texas Parks and Wildlife Department		4200 Smith School Road		Austin	TX	78744
Texas State House	Representative District 144	Representative Mary Perez	P. O. Box 2910		Austin	TX	78768
The Honorable Lina Hidalgo	Harris County Courthouse		1001 Preston St.	Suite 911	Houston	TX	77002-1811
The Honorable Adrian Garcia	Harris County Commissioner		1001 Preston St.	Suite 924	Houston	TX	77002-1866
Mr. Michael Schaffer, MBA	Director Harris Co Env Public Health		101 S. Richey St.	Suite G	Pasadena	TX	77506-1022
Steve Venti, Director Facility Operations	Clean Harbors La Porte, LLC		500 Independence Parkway South		La Porte	TX	77571
	Railroad Commission of Texas		P. O. Box 12967		Austin	TX	78711-2967



Attachment 10



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

February 8, 2022

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

**Re: Public Notice Publication Affidavit
RCRA Part B Class 2 Permit Modification Application
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:

Enclosed you will find the referenced affidavit. The associated application will be uploaded tomorrow and overnighted to your office. Please contact me at desha.david@cleanharbors.com or (423) 413-1218 with any questions or comments you have concerning this matter.

Sincerely,

A handwritten signature in blue ink, appearing to read 'David A. DeSha', written over a large, stylized blue circular graphic.

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

cc: Facility File

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 AIK Clerk
(title of person representing newspaper)

of the Houston Chronicle dba Pasadena Citizen; that this newspaper is a major
(name of newspaper)

local newspaper of general circulation.

The attached notice was published in said newspaper on the following date(s):

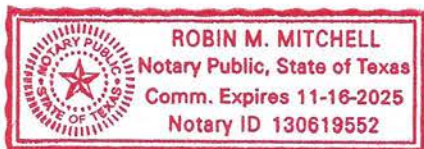
February 2, 2022, Ad # 34178402

by Victoria Bond
Newspaper Representative's Signature

Subscribed and sworn to before me this the 3 day of Feb, 2022,

[Signature]
Notary Public in and for the State of Texas

(Personalized Seal)



ROBIN MITCHELL
Print or Type Name of Notary Public

11/16/25
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 install and operate a medical waste treatment operation utilizing steam sterilization (i.e., 2 autoclaves and ancillary equipment). Installation of the autoclaves requires modifications to the Warehouse II secondary containment that will result in an increased secondary containment capacity, however, no increase in hazardous waste storage capacity is being requested. Additionally, the facility has purchased an adjacent property located on the south portion of the facility and this modification requests authorization to remove the fence that currently separates the current facility from that property as well as from another adjacent property already owned and relocate the fence along the new facility boundary. Removal of the fencing will effectively change the facility boundary, but no additional waste management units are being requested. Also, an update to the list of facility emergency coordinators and facility manager will also be requested.

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, allow for an obstructed movement of personnel and vehicles within the new facility boundary, and provide updates for the site's list of emergency coordinators. A draft permit has not been prepared as of the date of this notice.

PUBLIC COMMENT/ PUBLIC MEETING. The applicant will hold a public meeting on this application on 3/9/2022 at 6:00 pm as required by 30 TAC Section 305.69(c)(4). The meeting will be held in a meeting room at the La Porte Branch Library, 600 South Broadway Street, La Porte, Harris County, Texas 77571.

The purpose of the public meeting is to provide information and discuss issues related to the application. The applicant's contact person is Steve Venti, 500 Independence Parkway South, La Porte, TX 77571, (281) 884-5519. 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 11

Your transaction is complete. Thank you for using TCEQ ePay.

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt and the vouchers for your records. An email receipt has also been sent.

Transaction Information

Trace Number: 582EA000462714
Date: 12/01/2021 09:52 AM
Payment Method: CC - Authorization 0000011211
ePay Actor: DAVID DESHA
Actor Email: desha.david@cleanharbors.com
IP: 155.203.3.125
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

Click on the voucher number to see the voucher details.

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
TCEQ Amount:			\$3,233.00

[ePay Again](#) [Exit ePay](#)

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt for your records.

Your transaction is complete. Thank you for using TCEQ ePay.

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt and the vouchers for your records. An email receipt has also been sent.

Transaction Information

Trace Number: 582EA000462722
Date: 12/01/2021 10:06 AM
Payment Method: CC - Authorization 0000059624
ePay Actor: DAVID DESHA
Actor Email: desha.david@cleanharbors.com
IP: 155.203.3.125
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

Click on the voucher number to see the voucher details.

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
TCEQ Amount:			\$150.00

[ePay Again](#) [Exit ePay](#)

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt for your records.