CORRESPONDENCE COVER SHEET
WASTE PERMITS DIVISION
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Date: March 4, 2026
Facility Name: Northwest Transfer Station
Permit or Registration No.: 40348

Nature of Correspondence:
☐ Initial/New
☒ Response/Revision*

*If Response/Revision, please provide previous TCEQ Tracking No.: 32527669
(Previous TCEQ Tracking No. can be found in the Subject line of the TCEQ's response letter to your original submittal.)

This cover sheet should accompany all correspondences submitted to the Waste Permits Division and should be affixed to the front of your submittal as a cover page. Please check the appropriate box for the type of correspondence being submitted. For questions regarding this form, please contact the Waste Permits Division at (512) 239-2335.

Table 1 - Municipal Solid Waste

APPLICATIONS	REPORTS and RESPONSES
☐ New Notification	☐ Closure Report
☐ New Permit (including Subchapter T)	☐ Groundwater Alternate SRC Demonstration
☒ New Registration (including Subchapter T)	☐ Groundwater Corrective Action
☐ Major Amendment	☐ Groundwater Monitoring Report
☐ Minor Amendment	☐ Groundwater Statistical Evaluation
☐ Limited Scope Major Amendment	☐ Landfill Gas Corrective Action
☐ Notice Modification	☐ Landfill Gas Monitoring
☐ Non-Notice Modification	☐ Liner Evaluation Report
☐ Transfer/Name Change Modification	☐ Soil Boring Plan
☐ Temporary Authorization	☐ Special Waste Request
☐ Voluntary Revocation	☐ Other:
☐ Subchapter T Workplan	
☐ Other:	

Table 2 - Industrial & Hazardous Waste

APPLICATIONS	REPORTS and RESPONSES
☐ New	☐ Annual/Biennial Site Activity Report
☐ Renewal	☐ CfPT Plan/Result
☐ Post-Closure Order	☐ Closure Certification/Report
☐ Major Amendment	☐ Construction Certification/Report
☐ Minor Amendment	☐ CPT Plan/Result
☐ Class 3 Modification	☐ Extension Request
☐ Class 2 Modification	☐ Groundwater Monitoring Report
☐ Class 1 ED Modification	☐ Interim Status Change
☐ Class 1 Modification	☐ Interim Status Closure Plan
☐ Endorsement	☐ Soil Core Monitoring Report
☐ Temporary Authorization	☐ Treatability Study
☐ Voluntary Revocation	☐ Trial Burn Plan/Result
☐ 335.6 Notification	☐ Unsaturated Zone Monitoring Report
☐ Other:	☐ Waste Minimization Report
	☐ Other:

TETRA TECH

Municipal Solid Waste Permits Section, MC124
Waste Permits Division
Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, TX 78753

March 4, 2026

Subject: NOD2 Response Tracking No. 32527669
Northwest Transfer Station MSW Type V Registration Application No. 40348
14421 Sommermeyer Street, Houston, Harris County, Texas 77041

Dear TCEQ:

On behalf of the City of Houston (COH), Tetra Tech is pleased to submit our response to TCEQ's Notice of Deficiency No. 2 dated February 10, 2026.

Our responses to the NOD items are presented below. The response documents will be posted to the TCEQ FTPS website under [redacted] and three paper copies will be shipped to the TCEQ at the above address and one paper copy will be shipped to TCEQ Region 12 in Houston.

Revisions to our original submittal are indicated by "striking out" the text that was replaced and "redlining" the new text (redlined pages). Appendix 1 contains the redlined revised pages and Appendix 2 contains the clean (unmarked) revised pages.

NOD 2 and Responses

NOD ID	MRI ID	App. Part	Citation	1st NOD Type	NOD Description	Response
NT1	8	General	330.57(c)(2) 330.61(o) 330.61(p) 330.61(c)(12)	Incomplete	The electronic version of the application is missing the documentation in Attachment II-7 of Parts I/II. Provide the electronic version of Attachment II-7.	Attachment II-7 Agency Letters & Responses is submitted following Parts I/II in Appendix 2 of this letter
T2	17	General	330.57(f)(1)	Incomplete	Provide a Title Page to Part III with the P.E. seal and signature.	The PE Seal, signature, and date were added to the Part III title page.
NT3	21	General	330.57(g)(2)	Incomplete	Submit the Title Pages of Parts I/II, III, and IV with assigned Registration number 40348.	Registration No. 40348 was added to the title pages of Parts I/II, III, and IV.
T4	22	General	330.57(g)(3)	Incomplete	Provide the Table of Contents of Part III with the P.E. seal and signature.	The PE Seal, signature, and date were added to the Part III table of contents.
NT5	24	General	330.57(g)(5)	Incomplete	Add the year to the date in the footer of Part IV of the application.	"2025, Revised 2026" were added to the Part IV footer.
T6	27	General	330.57(h)(3)	Incomplete	Add a scale bar to the Site Plan in Appendix A of Attachment II-8 of Parts I/II.	The Attachment II-8 Transportation Study Site Plan was replaced with an updated drawing with bar scale.
T7	31	General	330.57(h)(4)(D)	Incomplete	Add P.E. or P.G. seal and signature as necessary to the figures on pages 178-181 of Parts I/II of the application.	Parts I/II Attachment II-10 Figures 1 through 4 have been sealed, signed, and dated by a TX P.E.

T8	31	General	330.57(h)(4)(D)	Incomplete	Drawings and figures state that they are not intended for permitting. Please address the discrepancy. See Attachment II-2 and Parts III for reference.	The note “not intended for permitting” has been removed from all drawings. Attachment II-2 and Drawing III-1 Page 5 Sheet A-011 was replaced because of a change to the building square footage.
NT9	32	General	330.57(h)(4)(E)	Incomplete	Include drawing names and page numbers on all drawings and figures. See the first figure in Attachment I-4 of Parts I/II.	All pages of Attachment I-4 were named, numbered and dated. Attachment and page numbers and dates were added to the following: Attachments II-2, III-1 through III-6, II-9 (last 2 drawings), III-7.
T10	34	General	330.57(h)(5)(B)	Incorrect	Include reference to the date of the base map used in Parts I/II, Attachments II-1.2, II-1.3, II-4 and II-5.	The date of each Google Earth base map was added to Attachments II-1.2, II-1.3, II-4 and II-5.
T11	45	General	330.55(a)	Incomplete	Parts I/II state that the facility qualifies for the Standard Air Permit under 30 TAC Chapter 330. Acknowledge that the construction and operation of the facility will comply with Subchapter U.	Added to Part I/II Section 2.9: “The applicant acknowledges that the construction and operation of the facility will comply with 30 TAC Subchapter U.”
NT12	51	General	330.67(b)	Omitted	Provide documentation stating the owner or operator shall retain right of entry to the facility until the completion of closure activities or identify where it can be found.	Added to Parts I/II Section 2.0: Statements that the City will retain the right of entry until the completion of closure and property ownership is confirmed by the signed and notarized Property Owner Affidavit dated January 5, 2026 in the Part I Application Form TCEQ-00650 (see NOD1 response)
NT13	101	Part I	330.59(f)(4)	Format	Correct the formatting issues in the TAC references in Section 2.5 of Parts I/II. For example, two TAC references include a (£) symbol in place of (f).	Parts I/II Section 2.5: The references to 30 TAC §330.59(**f**) were corrected.
NT14	132	Part II	330.61(a)	Inconsistent	Section 4.7 of Parts I/II refers to existing conditions in Sections 3.1 - 3.6 but existing conditions are found in Section 4.0. Correct this discrepancy.	Parts I/II Section 4.7 text was revised to refer to Sections 4.1 through 4.6.

NT15	191	Part II	330.61(d)(5)	Incorrect	The Construction Phasing Plan Drawing in Part III should be included in Part II of the application per 330.61(d)(5). Add this drawing to Part II of the application.	Sheet G-220 Construction Phasing Plan was added to Part II Attachment II-2 as Figure 9A.
T16	192	Part II	330.61(d)(6)	Format	Attachment II-2, the Architectural Site Plan, does not portray the perimeter fence. Include the perimeter fence in this figure or identify a figure where the fence is portrayed.	The Demolition Plan Attachment III-1 Page 2 (Sheet C-200) was revised to show the location of the perimeter fence with notes that it will be chain-link and six-feet-high minimum.
T17	227	Part II	330.551(a)	Omitted	According to the evaluation provided, the Project will have "no effect" of the federally listed threatened and endangered species. Acknowledge that the operation of this facility shall not result in the destruction or adverse modification of the critical habitat of endangered or threatened species per 30 TAC 330.551(a).	The following sentence was added to Parts I/II Section 4.6: "The applicant/owner acknowledges that the operation of this facility shall not result in the destruction or adverse modification of the critical habitat of endangered or threatened species per 30 TAC 330.551(a)."
T18	271	Part II	330.559(3)	Format	Provide a statement to attest to the on-site or local human-made features or events (both surface and subsurface) per 330.559(3).	The following text was added to Parts I/II Section 6.9: "The applicant/owner considered the following factors, at a minimum, when determining whether the site contained any unstable areas: (1) on-site or local soil conditions that may result in significant differential settlement, (2) on-site or local geologic or geomorphologic features, (3) on-site or local human-made features or events (both surface and subsurface)."
NT19	715	Part III	330.461(d)	Incorrect	Parts I/II refer to 30 TAC 330.7(a) in reference to the City Of Houston requesting permission from the ED to remove certified notation from the property deed after all wastes have been removed. The proper citation is 330.461(d). Correct the in-text citation or provide reasoning for the current citation's use.	In Part III Section 5.4, the citation has been changed to 330.461(d).

T20	991	Part IV	330.203(a)	Incomplete	Identify the source for all wastes including Primary Waste Types and Other Waste Types as seen in Section 2.1 of Part IV.	The following sentence was added to Part IV Section 2.1 for Primary and Other Waste Types: "The sources of Primary/Other Waste Types accepted by the proposed transfer station will be municipal, commercial, and industrial sources in the City of Houston, Harris County, and possibly surrounding counties."
T21	992	Part IV	330.203(b)	Incomplete	Include a description of the intended destination(s) of waste and how 10% of waste will be recovered in Part IV of the application or include reference to its location in Parts I/II.	The planned destination of waste and source-separated recyclable material collected at the transfer station is described in Part IV Section 2.5. A sentence was added to Section 2.5 stating that the 10 percent recycling requirement is explained in Parts I/II Section 1.1.
NT22	1056	Part IV	330.221(c)	Inconsistent	Section 11.1 refers to Section 1.3.1 but only Section 1.3 could be found. Please correct this discrepancy.	Part IV Section 11.1 was corrected to refer to Section 1.3. "Fire prevention and fire-fighting techniques" was added to Section 1.3.
T23	1058	Part IV	330.223(b)	Incomplete	Verify that facility access from a publicly owned roadway will be at least a two-lane gravel or paved road, designed for the expected traffic flow. Incorporate this into Part IV.	The following text was added to Part IV Section 12.2: "The site entrances and exits will be paved driveways with the widths shown on the Attachment III-1 Page 5 Architectural Site Plan and on the Attachment II-8 Transportation Study Site Plan. Vehicle access from a publicly owned roadway will be at least a two-lane paved road, designed for the expected traffic flow."

T24	1059	Part IV	330.223(b)	Incomplete	a. Provide a description of vehicle parking for equipment, employees, and visitors. b. Indicate that safety bumpers at hoppers must be provided for vehicles. c. Provide a description of the means to control dust and mud.	This text was added to Part IV Section 12.2 to address (a) and (b): "Vehicle parking for employees and visitors will be located east of the Scale House as shown on Attachment III-1 Page 5 Sheet A-011. Heavy equipment will be parked inside the building. Safety bumpers will be placed at all hoppers and waste/recycling containers for all vehicles. (c) Control of dust and mud is discussed in Part IV Section 19.0
T25	1070	Part IV	330.229(b)	Inconsistent	Clarify the request for 24/7 operating hours as indicated on the Application Checklist. Section 15.0 of Part IV indicates material acceptance between 7:00am and 7:00pm Monday - Friday and hours for operating heavy equipment and transporting materials between 5:00am and 9:00pm Monday - Friday. If 24/7 operating hours are being requested, provide a justification and correct throughout the application.	The request for 24/7 operation has been removed from Line 1069 of the MSW Application Checklist.
T26	1076	Part IV	330.233(b)	Incomplete	Indicate in Section 17.0 that the perimeter fence is a 6' chain link fence.	Part IV Section 17.0 – text was added specifying that the fence will be chain-link at least six feet high.
NT27	1080	Part IV	330.237(b)	Incomplete	Indicate that a water source shall be provided to control on-site dust.	Part IV Section 23.0 – Text was added stating that the facility will be connected to the City of Houston water supply system.

T28	1083	Part IV	330.241(a)	Incomplete	Provide specific procedures used to ensure that the design capacity of the facility will not be exceeded and that waste will not be allowed to accumulate in quantities that create a nuisance, create odors, or harbor vectors.	Part IV Section 2.3 says "The daily waste or Source-Separated Recyclable Material acceptance rate will range from approximately 500 tons per day to approximately 2,000 tons per day." This sentence was added: "In the event that the operating and storage capacity is approaching the maximum, the operator will temporarily stop accepting waste or source-separated recyclable material and direct incoming vehicles to other permitted transfer or disposal facilities until the transfer station again has the capacity to accept waste or source-separated recyclable materials." Prevention of nuisances or public health hazards due to odors, fly breeding, or harborage of other vectors is addressed in Part IV Section 2.4.
T29	1086	Part IV	330.241(c)	Incomplete	Provide alternative processing or disposal procedures for when the facility becomes inoperable for periods longer than 24 hours.	The following text was added to Part IV Section 2.3: "If the transfer station becomes inoperable for periods longer than 24 hours, the operator will notify haulers that the facility is temporarily closed and direct them to other permitted transfer, disposal, or recycling facilities that are appropriate for the material they are transporting."
T30	1087	Part IV	330.243(a)	Incomplete	Indicate that washing the working surface will occur weekly, at a minimum.	Part IV Section 22.0 was revised to say that washing the working surfaces will occur weekly, at a minimum.

Sections that have been revised for this NOD2 response are indicated in the table of contents below:

Form TCEQ-20714 Correspondence Cover Sheet (precedes this letter) **Revised**
Cover Letter **Revised**
Cover Page and Table of Contents **Revised**
Form TCEQ-00650 Part I Application Form **New Applicant signature page added.**
Form TCEQ-20960 Public Involvement Plan
Parts I&II General Information & Existing Conditions **Revised**

Part III Site Development Plan **Revised**
Part IV Site Operating Plan **Revised**
MSW Application Checklist **Revised**

Please call me at 936-202-0746 with any questions.



Jim Norstrom, P.E.
Senior Project Manager

Appendices
1. Redlined Pages
2. Clean Pages

cc:
- TCEQ Region 12 Office - 5425 Polk St., Ste. H, Houston, TX 77023-1452
- Mr. Eric Boehm – City of Houston Solid Waste Management Department
- Mr. Greg Kieschnick – City of Houston General Service Department
- Ms. Denise Yee – RDLR Architects

Appendix 1 Redlined Pages

Appendix 2 Clean Pages

Applicant Signature Page

Site Operator (Permittee or Registrant Name) or Authorized Signatory

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: Eric Boehm Title: Project Manager, COH SWMD

Email Address: [redacted]

Signature: Eric Boehm Date: 3/3/2026

Authorization by Facility Owner for Operator to Submit Application

~~*To be completed by the facility owner if the application is submitted by an operator who is not the facility owner.*~~

~~I am the owner of the facility that is the subject of this application, and authorize the operator,~~ _____ ~~to submit this application pursuant to 30 TAC 305.43(c).~~

~~Name:~~ _____ ~~Title:~~ _____

~~Email Address:~~ _____

~~Signature:~~ _____ ~~Date:~~ _____

Notary

SUBSCRIBED AND SWORN to before me by the said Eric Boehm

On this 5th day of March, 2026

My commission expires on the 26th day of June, 2029

Dara Elyse Lewis

Notary Public in and for

Harris County, Texas (notary's jurisdiction, including county and state)

Note: Application Must Bear Signature & Seal of Notary Public

DARA ELYSE LEWIS
NOTARY PUBLIC - STATE OF TEXAS
ID# 135520069
EXP: 6/26/2029

Type V Registration Application
Northwest Transfer Station MSW - 40348
14421 Sommermeyer Street, Houston, TX 77041
Cover Page & Table of Contents

Prepared for:

City of Houston General Services and Solid Waste Management Departments

611 Walker Street, Houston, Texas 77002

Prepared by:



TBPELS Registration No. F-3924

1500 CityWest Boulevard, Suite 1000, Houston, TX 77042

936-202-0746

Original December 2025

Revised March 2026

Type V Transfer Station Registration Application

City of Houston

Houston, TX

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Form TCEQ-20960 Public Involvement Plan (included in NOD1 response)

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Part IV Site Operating Plan

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Type V Registration Application No. 40348
Northwest Transfer Station
14421 Sommermeyer Street, Houston, Texas

Parts I & II
General Information and Existing Conditions

Prepared for:

City of Houston General Services and Solid Waste Management Departments

611 Walker Street, Houston, Texas 77002

Prepared by:

TETRA TECH

STATE OF TEXAS
JAMES M. NORSTROM
57016
LICENSED PROFESSIONAL ENGINEER
03/01/26
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

TBPELS Registration No. F-3924

1500 CityWest Boulevard, Suite 1000, Houston, TX 77042

936-202-0746

December 2025, Revised March 2026



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Houston, TX

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STATE OF TEXAS
JAMES M. NORSTROM
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03/01/26
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FIRM REGISTRATION NO. F-3924

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STATE OF TEXAS
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1.0 PURPOSE OF APPLICATION

The purpose of this application is to obtain a new MSW Type V Registration for the City of Houston's (COH) Northwest Transfer Station. The facility received Texas Department of Health Permit No. 1092 on November 28, 1997 which was replaced by TNRCC Type V Registration No. 40133 on February 2, 2001. Since then, there have been several modifications to the Registration, the most recent being December 16, 2010 according to the TCEQ Central Registry.

The transfer station building stopped receiving waste in 2023 when the COH decided to replace the existing building with a new building, scalehouse, tarping station, and pavements. The Citizen's Collection Station (called Depository by the COH) continued to accept waste so Registration No. 40133 has remained active. The facility is located at 14421 Sommermeyer Street, Houston, TX 77041.

In a TEAMS meeting held on June 20, 2025, the TCEQ informed the COH and Tetra Tech that Registration No. 40133 will remain active during demolition and reconstruction as long as the Depository remains active. A complete new Type V Registration Application will be required to register the newly constructed facility.

1.1 Registration Justification 30TAC330.9(e)

A registration, instead of a permit, is required for any new MSW Type V transfer station that includes a material recovery operation that meets all the following requirements:

330.9(e)(1) Materials Recovery

The City of Houston operates one or more source-separation recycling programs in the county where the transfer station is located and those source-separation recycling programs manage a total weight or weight equivalent of recyclable materials equal to 10 percent or more by weight or weight equivalent of the incoming waste stream to all transfer stations to which credit is being applied. Records from the City of Houston Solid Waste Department from 2020 through 2024 in the table below demonstrate that the 10 percent diversion requirement is exceeded.

	Compacted Waste (tons)					Non-Compacted Waste (tons)						Curbside Recycling (tons)						Yard Waste Recycling (tons)						Tree Waste Recycling (tons)					
Month	2020	2021	2022	2023	2024	Month	2020	2021	2022	2023	2024	Month	2020	2021	2022	2023	2024	Month	2020	2021	2022	2023	2024	Month	2020	2021	2022	2023	2024
Jan	37,877	37,820	35,858	39,674	37,689	Jan	13,629	12,293	9,523	10,300	10,509	Jan	5,458	5,958	6,467	5,386	5,068	Jan	1,081	1,131	528	482	377	Jan	5,226	5,310	4,293	4,208	3,357
Feb	31,556	33,401	31,634	31,977	33,296	Feb	28,416	24,285	21,605	23,366	24,261	Feb	4,090	3,607	4793	4,280	5,135	Feb	990	665	326	288	181	Feb	305	385	410	454	536
Mar	38,899	43,061	36,576	38,046	35,839	Mar	17,322	18,441	13,272	21,878	14,130	Mar	5,027	6,641	5,744	5,157	4,870	Mar	1,548	2,324	320	334	236	Mar	6,604	8,477	5,078	5,153	6,083
Apr	40,170	40,666	36,424	34,122	37,587	Apr	36,977	33,504	27,306	31,968	17,892	Apr	5,737	6,022	0	5,110	5,048	Apr	943	1,508	323	357	97	Apr	564	576	503	925	807
May	39,156	36,448	35,418	37,959	41,298	May	17,451	25,504	11,958	14,459	17,691	May	5,935	5,695	5,001	5,164	5,500	May	839	1,060	298	380	25	May	13,504	1,035	4,540	5,484	4,540
Jun	40,844	40,401	36,562	36,515	34,831	Jun	31,320	33,894	19,936	39,315	21,114	Jun	6,073	6,439	5360	4,410	5,735	Jun	780	796	245	405	0	Jun	607	856	531	2052	1003
Jul	40,854	39,655	33,999	33,835	45,040	Jul	19,367	17,027	7,409	18,612	16,781	Jul	5,994	6,288	4521	5,097	5,966	Jul	870	775	210	263	27	Jul	6,187	5,465	3,304	5,866	2,611
Aug	37,423	37,333	35,956	32,789	67,275	Aug	28,510	27,699	19,577	21,776	30,070	Aug	5,795	5,405	5368	4,662	5,395	Aug	814	506	208	255	68	Aug	673	595	550	663	2019
Sep	37,796	38,037	34,130	31,566	33,978	Sep	10,747	9,212	8,839	10,411	19,662	Sep	5,887	6,012	4793	4,672	4,680	Sep	676	545	307	258	18	Sep	6,237	8,218	4,681	4,134	1,526
Oct	38,396	35,781	30,095	33,607	33,099	Oct	30,169	29,958	19,982	26,253	22,662	Oct	5,735	5,402	4,056	4,617	5,060	Oct	735	555	497	305	44	Oct	417	708	0	687	1138
Nov	36,376	38,350	33,109	34,659	33,641	Nov	10,702	22,093	11,667	11,576	19,743	Nov	5,303	5,195	4,265	4,401	4,341	Nov	837	701	331	331	35	Nov	5,001	506	3561	3528	838
Dec	39,758	38,578	36,292	35,860	35,598	Dec	24,820	23,964	19,321	20,942	21,169	Dec	5,707	5,205	4,795	4,772	4,652	Dec	960	791	540	318	46	Dec	406	374	249	299	584
Total	418,302	459,531	416,052	420,608	469,169	Total	269,430	277,874	190,396	250,857	235,682	Total	66,741	67,869	55,162	57,729	61,449	Total	11,073	11,357	4,133	3,975	1,155	Total	45,731	32,505	27,701	33,452	25,041

Toal Compacted And Non-Compacted (tons)		Total diverted from the landfill (tons)		% Diverted =Total Diverted from Landfill/Total Incoming Waste Stream to all Transfer Stations
2020	687,732	2020	123,545	18%
2021	737,405	2021	111,731	15%
2022	606,448	2022	86,996	14%
2023	671,465	2023	95,157	14%
2024	704,852	2024	87,645	12%

The City Solid Waste Department collects waste from over 395,000 residences within city limits. The numbers in the table are for all waste and recyclables collected at the curb from those residences. The City

also has a reuse warehouse and three environmental service centers where material is recycled, and those recycled volumes are not included in the table.

The **Curbside Recycling** materials are collected by City vehicles from residences as co-mingled recyclables which typically include cardboard, paper, plastic, glass, and metal.

All recyclable material from the City's curbside recycling service is delivered to the materials recovery facility (M.R.F) operated by F.C.C. at 9172 Ley Road, Houston, TX 77078. F.C.C. sorts and packages the recyclables and then distributes them to various companies for processing.

Yard Wastes and Tree Wastes are collected by City vehicles from residences and transported to Living Earth Technologies where they are processed and placed in bags with City of Houston seals and sold as mulch.

Weighing is done at the landfill for waste, F.C.C MRF on Ley Road for recyclables, and at Living Earth Technologies for green waste.

330.9(e)(2) Distance to Landfill

The proposed transfer station will transport non-recyclable waste to a landfill that is not more than 50 miles from the facility. Distances from the Northwest Transfer Station to several Type I Landfills follow:

- Republic Services McCarty Road Landfill 24.8 miles
- Waste Management Atascocita Landfill 26.8 miles
- Republic Services Blue Ridge Landfill 31.8 miles
- GFL's Fort Bend Regional Landfill 40.1 miles

The proposed transfer station will also accept and transport Source-Separated Recyclable Material (30 TAC 328.2(6)) to a material recovery facility.

2.0 PROPERTY AND OWNERSHIP SUMMARY

The proposed facility will be a 7.58-acre MSW Type V Transfer Station located in Houston, Harris County, Texas to replace the transfer station that has operated under Type V Registration 40133 since ~~1997~~2001. The location of the proposed facility is shown on Attachments I-1 and I-2. An aerial photograph showing the proposed facility is included as Attachment II-4, and the general topographic map is included as Attachment II-3.

The City of Houston owns the facility property as confirmed by the signed and notarized Property Owner Affidavit dated January 5, 2026 in the Part I Application Form TCEQ-00650 (see NOD1 response). The physical address is 14421 Sommermeyer Street, Houston, Texas 77041. As required by 330.67(b), the City of Houston shall retain the right of entry to the facility until the end of the post-closure care period for inspection and maintenance of the facility.

2.1 Property Owner Information 30TAC330.59(d)

The property ownership information for the proposed facility is summarized in the following sections.

2.1.1 Legal Description

In accordance with 30 TAC §330.59(d)(l), the property owner information is presented in Attachment I-4 and includes the ~~final~~ Preliminary ~~plat~~Plat, metes and bounds description, and drawing of the metes and bounds description (B~~b~~oundary S~~s~~urvey). The City of Houston Plat approval and Harris County recording information for the property are included.

The property consists of 7.58 acres situated in the John Riden Survey, Abstract No. 669, City of Houston, Texas.

2.1.2 Property Owner Affidavit

A Property Owner Affidavit is provided by the City of Houston and included in the Part I form.

2.2 Adjacent Land Ownership 30TAC330.59(c)(3)

The Harris County Appraisal District Tax Rolls and Tax Maps were reviewed to determine land ownership of adjacent and potentially affected properties. Searches of Harris County Appraisal District records did not indicate any mineral interest owners. The land ownership map and list for each tract within a ¼ mile of the facility registration boundary is presented in Attachment I-3.

2.3 Easements 30TAC330.61(c)(10)&(g)

The boundary survey shows three easements along the east, northeast, and west property lines. (Attachment I-4). Solid waste operations will not be conducted on or within 25 feet of the centerline of any of these easements.

2.4 Legal Authority 30TAC330.59(e)

The City of Houston owns the property as indicated by the Property Owner Affidavit included in the Part I Application Form 0650.

2.5 Evidence of Competency 30TAC330.59(f)

The evidence of competency for this registration application meets the requirements of 30 TAC §330.59(f). The following sections address each subsection of the regulation.

30 TAC §330.59~~(f)~~(f)(1)

The Texas solid waste sites that have been owned or operated by City of Houston within the last 10 years are:

Site Name	Site Type	Permit or Registration Number	County	Dates of Operation
Southeast Transfer Station	MSW Type V	40131	Harris	10/13/97 to present
Southwest Transfer Station	MSW Type V	40132	Harris	10/13/97 to present
Northwest Transfer Station	MSW Type V	40133	Harris	10/13/97 to present

30 TAC §330.59(f)(2)

The City of Houston has no financial interest in any solid waste sites in other states, territories, or countries.

30 TAC §330.59~~(f)~~(f)(3)

The City of Houston will employ a licensed solid waste facility supervisor, as defined in Chapter 30 of this title (relating to Occupational Licenses and Registrations), before commencing site operation.

30 TAC §330.59(±)(4)

The following officers and supervisors have substantial experience in the waste services industry and are well-qualified principals and supervisors.

DeMarcus Glass
1245 Judiway, Houston Tx, 77018
C. 281-782-8171 O. 832-393-7821 [redacted]
21 Years Solid Waste Experience

Derek Mebane
1506 Central St., Houston, Texas 77012
C. 713-492-8683 O. 832-393-0441 [redacted]
30 yrs. Solid Waste Experience
TCEQ MSW Operator A (SW0002828-Expired)

Maurice Renfro
11500 South Post Oak, Houston, Texas 77035
C. 832-454-9109 O-832-393-7964 [redacted]
22 Years Solid Waste Experience
TCEQ MSW Operator A (Expired)

2.6 Appointments 30TAC330.59(g)

Mr. Eric Boehm, Project Manager in City of Houston Solid Waste Management Department, is the designated individual who will sign the registration application for the facility.

2.7 Application Fees 30TAC330.59(h)

The application fee was paid online (TCEQ ePay system) - Trace Number: 582EA000674490, TCEQ Amount: $150.00, Texas.gov Price: $153.63 on June 30, 2025.

2.8 Application Posting Information 30TAC330.57(i)

In accordance with 30 TAC §330.57(i)(l), a complete copy of this registration application is posted to the internet at the following address: **http://www.houstontx.gov/solidwaste/longrange/**. All future revisions or supplements to this registration application will be posted at the same location.

The TCEQ website will also contain information on the filing of this registration application along with a link to the above-mentioned web address.

In accordance with 30 TAC §330.57(i)(3), the owner or operator is required to post notice signs at specified intervals along the permit boundary bordering a public road (Sommermeyer Street) for information purposes.

2.9 Existing Permits/Authorizations

See Part I Application Form TCEQ-0650, Section 11 for a list of permits and construction approvals. Please note the following:

- The applicant or contractor will obtain coverage under the TPDES Construction Stormwater General Permit before starting construction

- The City of Houston will obtain coverage under the Stormwater General Permit for Industrial Facilities before starting operations, unless they obtain a No Exposure Certification.
- This facility qualifies for the Standard Air Permit under 30 TAC Chapter 330 Subchapter U. The applicant acknowledges that the construction and operation of the facility will comply with 30 TAC Subchapter U.

3.0 WASTE ACCEPTANCE PLAN

The facility will include a transfer station building served by a loading tunnel, scales, paved roadways, a pressurized waterline for fire extinguishing water, a waterline for the restroom, breakroom, and wash-water supply, a grit trap, an employee restroom, an employee breakroom/storage room, parking, and drainage features/structures. The facility will discharge contaminated water and sanitary sewage directly into the City of Houston sanitary sewer system.

The building will be served by a paved entry area in front of the building entrance, which is designed to facilitate waste truck entry to the building while preventing surface water entering the processing floor. The processing area (tipping floor) will be used for unloading, loading, and storage. A Site Layout Plan is included as Attachment III-1. The general design and construction details for the building components are presented in Attachments III-3 through III-6. Operation is discussed in Part IV of the application.

In addition to wastes that are unloaded and destined for disposal facilities, Source-Separated Recyclable Material (30 TAC 328.2(6)) may be accepted, unloaded, and reloaded into trucks for transport to material recovery facilities.

3.1 Sources and Characteristics of Waste 30TAC330.61(b)(1)

The acceptable waste characteristics, waste restrictions, general sources and service areas, waste rates, and storage and disposal requirements for the proposed facility are summarized in the following sections. There are no known constituents or characteristics in the acceptable waste stream that could impact or influence the design and operation of the facility.

Source-Separated Recyclable Material (30 TAC 328.2(6)) is acceptable and when accepted and managed on the tipping floor, no waste will be allowed on the tipping floor. Similarly, when waste is managed on the tipping floor, Source-Separated Recyclable Material will not be allowed on the tipping floor. The tipping floor will be washed down before changing from management of waste to Source-Separated Recyclable Material and before changing from management of Source-Separated Recyclable Material to waste. The tipping floor is shown in Attachment III-4, Sheets A-112, A-301, and A-302.

General operations will be conducted in a manner that allows for the prompt and efficient unloading of waste or Source-Separated Recyclable Material. The waste or Source-Separated Recyclable Material will be discharged from the collection vehicles onto the facility processing floor (tipping floor). Waste or Source-Separated Recyclable Material will be loaded into open top transfer trailers, which will be tarped before driving to an authorized disposal or recycling facility.

3.1.1 Waste Types

Waste accepted at the facility is expected to consist of the following wastes as defined in 30 TAC §330.3:

Primary Waste Types:

- Municipal Solid Waste - Solid waste resulting from or incidental to municipal, community, commercial, institutional, and recreational activities, including garbage, rubbish, ashes, street cleanings, and all other solid waste other than industrial solid waste
- Putrescible Waste - Organic wastes, such as garbage, that are capable of being decomposed by microorganisms with sufficient rapidity as to cause odors or gases or are capable of providing food for or attracting birds, animals, and disease vectors
- Rubbish – Non-putrescible solid waste (excluding ash), consisting of both combustible and noncombustible waste materials. Combustible rubbish includes paper, rags, cartons, wood, excelsior, furniture, rubber, plastics, brush, or similar materials; noncombustible rubbish includes glass, crockery, tin cans, aluminum cans, and similar materials that will not bum at ordinary incinerator temperatures (1,600 to 1,800 degrees Fahrenheit)
- Yard Waste - Leaves, grass clippings, yard and garden debris, and brush, including clean woody vegetative material not greater than six inches in diameter that results from landscaping maintenance and land-clearing operations. The term does not include stumps, roots, or shrubs with intact root balls
- Construction and demolition (C & D) Debris - Debris resulting from construction or demolition projects; includes all materials that are directly or indirectly the by-products of construction work or that result from demolition of buildings and other structures, including, but not limited to, paper, cartons, gypsum board, wood, excelsior, rubber, and plastics

Other Waste Types:

- Class 2 Industrial Wastes - Any individual solid waste or combination of industrial solid wastes that are not described as Hazardous, Class 1, or Class 3 as defined in §30 TAC 335.506 (relating to Class 2 Waste Determination)
- Class 3 Industrial Wastes - Inert and essentially insoluble industrial solid waste, usually including, but not limited to, materials such as rock, brick, glass, dirt, and certain plastics and rubber, etc., that are not readily decomposable, as further defined in §335.507 of the TCEQ regulations (relating to Class 3 Waste Determination)

Source-Separated Recyclable Material:

- As defined in 30 TAC Chapter 328.2(6) - Source-separated recyclable material is recyclable material from residential, commercial, municipal, institutional, recreational, industrial, and other community activities, that at the point of generation has been separated, collected, and transported separately from municipal solid waste, or transported in the same vehicle as municipal solid waste, but in separate containers or compartments. Source-separation does not require the recovery or separation of non-recyclable components that are integral to a recyclable product, including:
    - (A) the non-recyclable components of white goods, whole computers, whole automobiles, or other manufactured items for which dismantling and separation of recyclable from non-recyclable components by the generator are impractical, such as insulation or electronic components in white goods;
    - (B) source-separated recyclable material rendered unmarketable by damage during collection, unloading, and sorting, such as broken recyclable glass; and
    - (C) tramp materials, such as:
        - (i) glass from recyclable metal windows;
        - (ii) nails and roofing felt attached to recyclable shingles;
        - (iii) nails and sheetrock attached to recyclable lumber generated through the demolition of buildings; and (iv) pallets and packaging materials.

The facility will not accept the following wastes:

- Special wastes, other than Class 2 and Class 3 industrial wastes
- Special waste from health-care facilities
- Waste from commercial or industrial wastewater treatment plants, air pollution control facilities, and tanks, drums, or containers used for shipping or storing any material that has been listed as a hazardous constituent in 40 code of Federal Regulations (40 CFR), Part 261, Appendix VIII but has not been listed as a commercial product in 40 CFR, §261.33(e) or (f)
- Slaughterhouse wastes
- Dead animals
- Pesticide (insecticide, herbicide, fungicide, or rodenticide) containers in accordance with 30 TAC §330.136(b)(5)
- Discarded materials containing asbestos
- Incinerator ash
- Soil contaminated by petroleum products, crude oils, or chemicals
- Hazardous wastes
- Polychlorinated biphenyls (PCB) waste
- Radioactive waste
- Unknown chemical or containerized waste
- Class 1 non-hazardous industrial waste
- Regulated Asbestos Containing Materials (RACM)
- Lead acid batteries
- Do-it-Yourself (DIY) used motor vehicle oil
- Used oil filters from internal combustion engines
- Whole used or scrap tires - Tires that are, at minimum, split in half or quartered will be accepted since they are allowed to be disposed of at landfills
- Items containing chlorinated fluorocarbons (CFC' s), such as refrigerators, freezers, and air conditioners, will only be accepted at the site if the generator or transporter provides written certification that the CFC has been evacuated from the unit and that it was not knowingly allowed to escape into the atmosphere
- Liquid waste (any waste material that is determined to contain “free liquids" as deemed by EPA Method 9095 (Paint Filter Test), as described in "Test Methods for Evaluating Solid Wastes, Physical Chemical Methods" (EPA Publication Number SW-846)) shall not be accepted unless it is bulk or non-containerized liquid waste that is household waste other than septic waste, or contained liquid waste and the container is a small container similar in size to that normally found in household waste, the container is designated to hold liquids for use other than storage, or the waste is a household waste

3.1.2 Waste Generation Areas

The proposed transfer station is planned to serve the City of Houston and Harris County and may serve other counties.

3.1.3 Projected Waste Acceptance Rate

The projected amount of waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) to be received daily and annually for the next five years of the facility operation is presented below. The daily waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) acceptance rate will range from approximately 500 tons per day (182,500 tons/year for 7 days/week operation) to approximately 2,000 tons per day (730,000 tons/year for 7 days/week operation). The estimated waste acceptance rate may fluctuate during the life of the facility and should not be considered a limit.

3.1.4 Projected Population Equivalent

Based on the TCEQ definition for population equivalency, the average volume per ton of waste is three cubic yards with a generation rate of five pounds per person per day.

The population equivalent served by the transfer station based on waste intake rate is:

500 tons/day (182,500 tons/year)

5 pounds per person per day x 365 days per year = 1,825 pounds = 0.91 tons per person per year

Population Equivalent = (182,500 tons per year) / (0.91 tons per person per year) = 200,549 people

2,000 tons/day (730,000 tons/year)

5 pounds per person per day x 365 days per year = 1,825 pounds = 0.91 tons per person per year

Population Equivalent = (730,000 tons per year) / (0.91 tons per person per year) = 802,197 people

3.1.5 Waste Storage and Disposal

The maximum volume of waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) that will be stored at the transfer station at any given time is 2,000 tons. Waste and Source-Separated Recyclable Material will not be stored at the transfer station at the same time. All waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) storage or holding will occur within the building. No storage of waste materials or Source-Separated Recyclable Material (30 TAC 328.2(6)) will occur outside of the building. Solid waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) will be stored on average for four hours and a maximum of six hours while being processed. The solid waste will not be allowed to accumulate long enough to allow the creation of nuisances or public health hazards due to odors, fly breeding, or harborage of other vectors. Storage periods significantly above average that are caused by equipment breakdowns will only be permitted for the time required to repair or replace the malfunctioning equipment. The maximum holding time under these circumstances will not exceed 48 hours with an average holding time of 24 hours. During time periods including holidays, the solid waste may be temporarily stored at the site not to exceed 72 hours.

Acceptable wastes received will be reloaded and transported to a Type I landfill permitted by the TCEQ. Source-Separated Recyclable Material will be accepted, unloaded on the tipping floor, and reloaded into trucks for transport to material recovery facilities. Waste and Source-Separated Recyclable Material will not be allowed on the tipping floor at the same time and the floor will be washed down before transitioning from one material to the other.

Whole scrap tires will be removed from the waste stream and disposed of or recycled according to 30 TAC Chapter 328. Whole or scrap tires will be transported to a local registered scrap tire processor. Tires that are, at a minimum, split in half or quartered are allowed at Type I landfills. Special wastes, liquid wastes, hazardous wastes, and PCB wastes will not be accepted.

3.2 Regional Solid Waste Management 30TAC330.61(p)

30 TAC §330.61(p) requires that the owner or operator provide documentation that Parts I and II of the registration application were submitted for review to the applicable council of governments for compliance with regional solid waste plans. The regional authority for Harris County is the Houston- Galveston Area Council (HGAC). The HGAC is an intergovernmental planning agency that serves a 13-county region, encompassing the Houston metropolitan area. HGAC's solid waste management plan is entitled Regional Solid Waste Management Plan 2022–2042 (.https://www.h-gac.com/community-and-environmental-planning-publications/solid-waste-and-recycling).

Parts I and II of this application have been sent to the HGAC for review. A copy of the related correspondence is included in Attachment II-7.

3.3 Local Solid Waste Management 30TAC330.61(p)

30 TAC §330.61(p) requires that the owner or operator requests a review letter from local governments for compliance with the local solid waste plan. The City of Houston provided a letter (Attachment II-7) indicating compliance with their long-term solid waste management plan, which is entitled the Integrated Resource Recovery Management Plan, available at http://www.houstontx.gov/solidwaste/longrange. Harris County does not have a solid waste management plan, therefore, submittal to Harris County was not necessary.

4.0 EXISTING CONDITIONS SUMMARY

In accordance with 30 TAC 330.61, the following sections include Part II of the registration application that summarize the existing conditions of the facility property and the surrounding area. The main topics include land use and zoning, population and community growth trends, locations of water and oil/gas wells, prevailing wind direction, transportation analysis, general geology, soils, groundwater and surface water information, and floodplain, wetlands, and endangered species data.

4.1 Impact on Surrounding Area 30 TAC 330.61(h)

A land use and zoning compatibility analysis was performed for the Northwest Transfer Station. The results of the analysis are summarized in the following sections.

4.1.1 Zoning

The Northwest Transfer Station site and area within one mile from the site boundary are located within the City of Houston in Harris County, Texas. The City of Houston does not have a zoning ordinance, therefore, there are no zoning restrictions for the facility.

4.1.2 Character of Surrounding Land Use

Existing uses of the site and the surrounding area are shown on Attachment II-5, Land Use Map. The map was prepared based on a field reconnaissance study (Tetra Tech, August 4, 2025) and a review of recent aerial photographs (Google Maps™ and GoogleEarth™) of the surrounding area. Most of the land within a one-mile radius is developed with a wide variety of commercial, industrial, and residential uses. Several subdivisions/home communities, schools, churches, and day care centers are located within a one-mile radius of the site. Commercial / Industrial represents the largest percentage of land use within a one-mile radius of the site. The second most common land use within a one-mile radius of the site is Agricultural / Open Space. The breakdown of overall land use within the one-mile radius is shown below.

Land Use Within One Mile of Site Boundary

Land Use	Area, acres	Percentage of Total Area, %
Northwest Transfer Station Site	7.58	0.4
Residential	207	10.3
Commercial / Industrial	1211	60.2
Agricultural or Open Space	245	12.2
Ponds and Lakes	20.4	1.0
Cemeteries	2.0	0.1
Government / Medical / Education	8	0.4
Historical Structures, Archeologically Significant Sites, Site Having Exceptional Aesthetic Quality	0	0
Multiple Use	155	7.7
Undeveloped and Other	155	7.7
Total	2,011	100

4.1.3 Population and Community Growth Trends

Population projections for Harris County, as tabulated by the Houston-Galveston Area Council (H-GAC) are summarized below. The data is from the 2024 Regional Growth Forecast.

H-GAC Regional Growth forecast: Counties

Year	Projected Population of Harris County
2025	4,936,392
2030	5,224,689
2035	5,486,474
2040	5,766,172
2045	5,971,013
2050	6,165,913

4.1.4 Growth Trends

The facility is located within the City of Houston. According to HGAC Regional Population Growth Trends, the household population growth trends for the areas shown are presented in the table below for the period 2020 to 2040.

Houston Growth Forecast

Houston Sector	Area, square miles	2030 Population Forecast	2040 Population Forecast	2050 Population Forecast
Concentric Area between I-610 & Beltway 8	435	1,797,378	1,974,969	2,184,837
City of Houston	671	2,598,553	2,910,271	3,194,450

H-GAC predicts that the population and employment growth will increase strongly in Houston in general.

H-GAC provides a web-based mapping tool to view forecast maps and retrieve information on population and employment forecast data called H-GAC Regional Socio-Economic GIS. A query within a five-mile radius of the facility yielded forecast data summarized in the table below.

Five Mile Growth Forecast

	2025	2050	Percent Increase
Population	362,773	545,676	50
Households	133,065	223,636	68
Jobs	323,574	576,823	78

The 2024 H-GAC Regional Growth Mapping Tool predicts that the population will increase in census tracts in all four quadrants around the transfer station property between 2025 and 2050, with the greatest growth in the northwest and southwest quadrants.

4.1.5 Proximity to Residential and Other Uses

In accordance with 30 TAC 330.61(h)(4), the following paragraphs describe certain specific uses of the properties within one mile of the site boundary. The locations of schools, licensed day care facilities, residences, churches, and commercial and industrial areas within a one-mile radius of the facility are shown on Attachment II-5 and are discussed in further detail below.

No known hospitals, archeological or historical sites, or sites with exceptional aesthetic qualities were identified within one mile of the facility boundary. The nearest hospital appears to be the Kindred Hospital Northwest about five miles to the northwest.

Ponds and Lakes

No lakes were observed with one mile of the site during our field survey nor when researching Google Maps or Google Earth. One man-made pond appears on Google Earth about 2,000 feet west of the site.

Residential

Our review of a Google Earth aerial photo, Google Maps, and our driving survey of the area in August 2025 indicates several residential areas within one mile of the site boundary. Based on HGAC's Regional Land Use Information System, 10.2 percent of the land within one mile of the site is residential. The nearest

residence is approximately 130 feet west of the site boundary. All residential areas are shown on the Land Use Map, Attachment II-5.

Churches

Our review of a Google Earth aerial photo, Google Maps, and our driving survey of the area in August 2025 indicates that there are 10 existing churches within one mile of the facility. The closest church is the Saint James Baptist Church at 5546 Teague Rd, Houston, TX 77041 about 2,695 feet south of the site boundary.

Licensed Day Care Facilities

Our review of a Google Earth aerial photo, Google Maps, and our driving survey of the area in August 2025 indicates that there are three licensed day care centers within one mile of the facility, with the nearest being the Precious Jewels Day Care Center located at 5531 Windfern Rd, Houston, TX 77041770, about 3,008 feet -south of the proposed transfer station.

Parks and Recreational Areas

A driving survey of the area in August 2025 and review of Google Earth and Google Maps indicates two parks or recreational areas located within one mile of the site boundary. Carverdale Park is about 2,750 feet south of the site and Independence Park is about 5,165 feet to the southwest.

Cemeteries

The one cemetery is the Fairbanks Cemetery at 5500 Stonington St, Houston, TX 77040 located about 1,380 feet east of the site.

Schools

Our review of a Google Earth aerial photo, Google Maps, and our driving survey of the area in August 2025 indicates that there are four schools within one mile of the property boundary. The nearest school is the Bane Elementary School located about 3,040 feet to the east as shown on the Land Use Map, Attachment II-5.

Commercial and Industrial

A driving survey of the area in 2025 confirmed that the majority of land use within one mile of the site is industrial. The HGAC Regional Land Use Information System states that 53.9 percent of the land is Industrial and 6.2 percent is commercial. The nearest commercial facility is 110 feet to the west and nearest industrial facility is 350 feet to the southeast. Commercial and industrial areas are shown on the Land Use Map, Attachment II-5.

Historic Site and Cultural Resources

In accordance with 30 TAC §330.61(0), a letter was sent to the Texas Historical Commission (THC) for concurrence that there are no historical, archeological, or sites with exceptional aesthetic quality on the facility property or in the surrounding area that would be affected by the proposed transfer station. The THC responded in an email on July 24, 2025 that" No historic properties are present or affected by the project as proposed." A copy of the THC email is included in Attachment II-7.

Miscellaneous Uses

The HGAC Regional Land Use Information System reports the following percentages of miscellaneous land uses:

- Multiple Use 7.7 percent
- Parks 1.9 percent
- Agricultural / Open Space 12.2 percent
- Undeveloped / Other 7.7 percent

4.1.6 Structures and Inhabitable Buildings 30TAC330.61(c)(3)

In accordance with 30TAC330.61(c)(3), the structures and inhabitable buildings within 500 feet of the registration boundary are shown on Attachment II-1.2.

4.1.7 Water and Oil/Gas Wells 30TAC330.61(h)(5) & 30TAC330.61(l)

The locations of groundwater wells and oil/gas wells within 500 feet of the site boundary were determined by our database searches using the Texas Water Development Board's Groundwater Data Viewer (https://www3.twdb.texas.gov/apps/WaterDataInteractive/GroundWaterDataViewer) and the Texas Railroad Commission's Public GIS Viewer (https://www.rrc.texas.gov/resource-center/research/gis-viewer/).

We found no known water well locations within 500 feet of the proposed transfer station registration boundary as shown on Attachment II-1.3 Figure 7.

There are no active, inactive, or plugged oil or natural gas wells on the proposed transfer station property nor within 500 feet of the proposed transfer station site boundary based on our search using the Texas Railroad Commission Public GIS Viewer (see Attachment II-1.3 Figure 8).

4.1.8 Prevailing Wind Direction 30TAC330.61(c)(1)

A wind rose is included on Attachment II-1.1 to illustrate the prevailing wind direction. This wind rose from Bush Intercontinental Airport indicates that the prevailing wind is from the south-southeast. The average wind speed is 5 to 10 miles per hour..

4.2 Transportation Analysis 30TAC330.61(i)

The site has operated as a solid waste transfer station for many years and the traffic volume for the proposed facility will be very similar to traffic generated by the prior facility. Entrances and exits for the new facility will be different so traffic volumes on surrounding streets will change somewhat.

The transportation analysis report is presented in Attachment II-8 includes data on the availability and adequacy of roads that the owner or operator will use to access the facility, data on the volume of vehicular traffic on access roads within one mile of the facility, both existing and during the expected life of the facility, and projected volume of traffic expected to be generated by the facility on the access roads within one mile of the facility. Documentation of coordination of all designs associated with site entrances with the agency with maintenance responsibility of the public roadways involved (City of Houston), and documentation of coordination with the Texas Department of Transportation (TxDOT) for traffic and location restrictions is provided in Attachment II-7.

4.2.1 Site Access

Public access to the facility will be provided by two entrances on Sommermeyer Street for waste collection trucks and transfer trailers. Collection vehicles will leave the facility via an exit on Sommermeyer Street. Transfer trailers will exit onto Teague Street. The owner or operator will obtain required permits from appropriate governmental agencies prior to construction of the new entrances and exits. Vehicular traffic to the facility will generally access the facility using Sommermeyer Street.

The proposed site entrance and exit widths are shown on the Site Plan in the Transportation Analysis Report (Attachment II-8). The driveways will intersect Sommermeyer Street at a 90-degree angle at a location with no sight restrictions or conflicts that impair the turning of the trucks or the view of drivers. Trucks that turn into the proposed site entrance driveway will have over 200 feet of queueing room before they reach the scale. The exit will be controlled by a stop sign.

Based on the proposed access routes and attached Transportation Study, the roadways that provide access to the facility are adequate in capacity and structure to continue to serve the needs of the transfer station and general public. Roads used for access to the transfer station are shown on Attachment II-3 and have either concrete or asphalt surfaces. There are no proposed public roadway improvements such as turning lanes or storage lanes associated with the site entrance.

Correspondence with TxDOT and the City of Houston is included in Attachment II-7.

4.2.2 Traffic Volumes

See the transportation analysis report by JKnesek & Associates, Inc. presented in Attachment II-8.

4.2.3 Traffic Generated by the Proposed Facility

See the transportation analysis report by JKnesek & Associates, Inc. presented in Attachment II-8.

4.2.2 Airport Locations

There are no public use airports within six miles of the site. The Memorial Hermann Hospital Heliport at Memorial City is 5.36 miles to the south. The nearest runway of a public-use airport is at the West Houston Airport, located approximately 11 miles west of the Northwest Transfer Station site. In accordance with 30 TAC 330.6l(i)(5), an airport impact evaluation is required only for landfill units and landfill mining operations, and thus not required for transfer stations.

4.2.3 TXDOT Correspondence

In accordance with 30TAC330.61(i)(4), the applicant contacted TxDOT for any traffic or location restrictions that may apply to the facility. Correspondence with TxDOT is included in Attachment II-7.

4.3 General Geology and Soils Statement 30TAC330.61(j)

In accordance with 30 TAC §330.6l(j), a general discussion of the geology and soils at the Northwest Transfer Station is included in the following sections.

4.3.1 Physiography and Topography

The site is in Houston, Harris County, Texas. The topography of Harris County slopes downward toward Galveston Bay, generally from northwest to southeast. The topography is relatively flat with elevation changes on the order of one foot per mile. The site is in the Coastal Prairie portion of the Gulf Coastal Plain physiographic province. The depositional plain of the Gulf Coast region is typically flat with primary relief provided by shallow valleys cut by streams. Attachment II-3 shows the general site topography based on United States Geological Survey (USGS) maps, dated 2025.

The major rivers in the area are the Brazos, Colorado, San Jacinto, and Trinity Rivers. Numerous constructed lakes and reservoirs are present in the area and influence the water table on a local scale. The Gulf of Mexico and Galveston Bay have a large effect on both the downdip ground-water system and the climate of the area. Winter is short and mild with a few days of freezing temperatures. Area rainfall averages are

approximately 49.77 inches per year (averaged between 1981 and 2010 for the Houston, Texas area (www.noaa.gov)).

The transfer station site drains via Cole Creek to the White Oak Bayou watershed, which drains an area of about 111 square miles throughout the northwest portions of Harris County as well as the City of Jersey Village and portions of the City of Houston. White Oak Bayou meanders southeast for 25 miles until it joins Buffalo Bayou in Downtown. The watershed includes three primary streams: White Oak Bayou, Little White Oak Bayou and Cole Creek.

The approximate existing ground elevation of the facility is 100 ft-msl.

4.3.2 Geologic Setting

The following discussion describes the geology beneath the facility.

The site is located within the Gulf Coast sedimentary basin, which consists of thousands of feet of sediments deposited through deltaic, alluvial, eolian dune, bay-estuarine, and barrier island-shoreline geologic processes. The thick mass of sediments dips and thickens toward the Gulf of Mexico and successively older geologic formations are exposed progressively further inland.

The Pleistocene age Beaumont Formation underlies the project site and all of Harris County and is characterized by clay, silt, sand, and minor amounts of siliceous gravel. Beaumont clays are typically red, brown, tan, and/or gray with irregularly distributed calcareous nodules and ferrous nodules, interstratified with sands. Thickness ranges from 25 to 400 feet. The Beaumont overlies the Lissie Formation and underlies Recent coastal marsh deposits in the eastern division of the Texas-Louisiana Gulf Coastal Plain.

4.3.3 On-Site Geology

HTS, Inc. Consultants conducted a geotechnical investigation of the site in September 2025 and their Geotechnical Evaluation report is presented as Attachment II-9. Eighteen borings indicate that the subsurface soils are predominantly clay (low and high plasticity) with intermittent sand layers in some places. Findings and recommendations in the report will be used to design foundations and retaining structures for the new transfer station. In the HTS report, soil stratigraphy is described in Section 5.1.

4.3.4 On-Site Soils

The USDA Web Soil Survey (https://websoilsurvey.nrcs.usda.gov/app/) Map shows that soils at the site are in the Addicks-Urban land complex, 0 to 1 percent slopes, poorly drained, loamy fluvio-marine deposits of early Pleistocene age.

4.4 Ground and Surface Water Statement 30TAC330.61(k)

In accordance with 30 TAC 330.61(k), a general discussion of the groundwater and surface water conditions at the proposed Transfer Station is included in the following sections.

4.4.1 Groundwater Conditions

The Chicot and Evangeline aquifers are the major hydrologic units used for groundwater supply in Harris County and grouped together are known as the Gulf Coast Aquifer. These aquifers are composed of gravel, sand, silt, and clay of Pliocene, Pleistocene, and Holocene ages. Units of the Chicot aquifer comprise the uppermost aquifer in the facility area.

In the geotechnical report, groundwater is described in Section 5.2.

4.4.2 Surface Water Features

The transfer station site drains via Cole Creek to the Hunting White Oak Bayou watershed, which drains an area of about 31 square miles in Harris County, Texas, and throughout the northwest portions of Harris County as well as the City of Jersey Village and portions of the City of Houston. White Oak Bayou meanders southeast for 25 miles until it joins Buffalo Bayou in Downtown. The watershed includes the three primary streams: White Oak Bayou, Little White Oak Bayou and Cole Creek primary stream Hunting Bayou (Harris County Flood Control District Unit No. H100-00-00), and several tributaries. The watershed includes about 54 miles of streams and is a highly developed watershed. A tributary to Hunting Bayou (Harris County Flood Control District Unit No. H113-00-00 to Hunting Bayou) is located adjacent to the facility, with Hunting Bayou about one-half mile south of the facility.

4.4.3 Texas Pollutant Discharge Elimination System

The owner/operator shall obtain the appropriate TPDES permit coverage when required. The transfer station will not perform vehicle or equipment maintenance, repairs, painting, fueling, lubrication, or cleaning. Therefore, the site is not subject to the requirements of the Texas Pollutant Discharge Elimination System (TPDES) multi-sector general permit, as required by 402 of the Clean Water Act. However, the owner/operator shall obtain a stormwater permit for "construction only" prior to construction of the facility.

4.5 Floodplains and Wetlands Statement 30TAC330.61(m)

4.5.1 Floodplains

The property proposed for the transfer station is outside the 100-year floodplain according to the FEMA National Flood Hazard Layer FIRMette which was derived directly from the authoritative NFHL web services provided by FEMA. The map was exported on July 31, 2025 and is included as Attachment II-11. The minimum ground surface elevation of the transfer station property after development will be 94 feet MSL, while the bottom of the detention pond will be at Elevation 90 feet. The tipping floor elevation will be 100 feet MSL.

4.5.2 Wetlands

Tetra Tech (TT) performed a wetlands study for the proposed transfer station property. The purpose of the study was to determine the approximate sizes and locations of wetlands and other areas that could potentially be classified as "Jurisdictional Waters of the United States" and to identify wetlands on the facility according to the Texas Water Code (TWC) §11.502. TT identified no jurisdictional wetlands on the transfer station property as stated in their report presented in Attachment II-10. A request for verification of the absence of wetlands was submitted to the U.S. Corps of Engineers Galveston Office (USACE) via Federal Express on November 8, 2025. Our letter plus FedEx labels and receipt are provided in Attachment II-7.

4.6 Protection of Endangered Species 30TAC330.61(n)

TT performed a threatened and endangered species assessment of the proposed transfer station property. The objective of the assessment was to evaluate the potential for the existence of species and/or their habitat that are considered protected under the Endangered Species Act of 1973 and subsequent amendments and listings in accordance with the requirements of 30 TAC §330.6l(n). TT concluded that there will be "no effect" on listed threatened or endangered species from development of the proposed transfer station property, as stated in their report presented in Attachment II-10. The applicant/owner acknowledges that the operation of this facility shall not result in the destruction or adverse modification of the critical habitat of endangered or threatened species per 30 TAC 330.551(a).

A request for a Wildlife Habitat Assessment was submitted to the Texas Parks and Wildlife Department, Wildlife Division (TPWD) via Federal Express on November 11, 2025. Our letter plus FedEx labels and receipt are provided in Attachment II-7.

4.7 Site-Specific Conditions Requiring Special Design Considerations

In accordance with 30 TAC §330.61(a), the requirements of 30 TAC §330.61(h) through (o) have been evaluated and discussed in the above Sections ~~3~~4.1 through ~~3~~4.6 of the existing conditions summary. There are no special design considerations or possible mitigation of conditions required at the facility.

4.8 Additional Standard Registration Conditions for Municipal Solid Waste Facilities

If at any time during the life of the facility the City of Houston (COH) becomes aware of any condition in the registration that necessitates a change to accommodate new technology or improved methods or that makes it impractical to keep the facility in compliance, the COH will submit to the Executive Director requested changes to the registration in accordance with 30 TAC 305.62 relating to Amendments or 30 TAC 305.70 relating to MSW registration modifications. The requested changes must be approved prior to their implementation.

The COH will obtain and submit certification by a Texas-licensed professional engineer that the facility has been constructed as designed in accordance with the issued registration and in general compliance with the regulations prior to initial operation. The COH will maintain that certification in the site operating record as described in Part IV, the Site Operating Plan.

After initial construction has been completed and prior to accepting solid waste, the COH will contact the TCEQ Austin office and the region office in writing to request a pre-opening inspection. The TCEQ will conduct a pre-opening inspection within 14 days of notification that all construction activities have been completed, accompanied by representatives of the COH and the engineer.

The facility will not accept solid waste or recyclable materials until the TCEQ has confirmed in writing that all applicable submissions required by the permit and 30 TAC Chapter 330 have been received and found to be acceptable, and that construction complies with the registration and approved Site Development Plan. If the TCEQ does not provide a written or verbal response within 14 days of completion of the pre-opening inspection, the facility will be considered approved for operation.

5.0 SUPPLEMENTARY TECHNICAL REPORT

In accordance with 30 TAC 305.45(a)(8), a supplementary technical report is required to be submitted with an application to provide a general description of the facilities and the systems used for or in connection with the collection, transportation, treatment, and disposal of waste, or used in connection with an injection activity. There is no injection activity proposed at the subject transfer station, therefore, the related portions of 30 TAC 305.45(a)(8) are not applicable. The volume and rate of acceptance, the types of allowable wastes, the physical properties and characteristics of the allowable wastes, and the general sequence of operation of the facility are discussed in Section 2.0 Waste Acceptance Plan.

6.0 LOCATION RESTRICTIONS

In accordance with Subchapter M of Chapter 330, the applicability of location restrictions is addressed in the following sections.

6.1 Easements and Buffer Zones 30TAC330.543

No solid waste unloading, storage, or processing activity will occur within any easements, buffer zones, or right-of-way that cross the facility. There will be no solid waste disposal at the facility. As applicable, all pipeline and utility easements will be clearly marked with posts that extend at least six feet above ground level, spaced at intervals no greater than 300 feet. The easements at the facility are shown on Attachment I-4.

A minimum separating distance of 50 feet will be maintained from the solid waste processing and storage areas to the facility registration boundary.

6.2 Airport Safety 30TAC330.545

This regulatory requirement is not applicable to this registration application.

6.3 Floodplains 30TAC330.547

The property proposed for the transfer station is outside the 100-year floodplain according to the FEMA National Flood Hazard Layer FIRMette which was derived directly from the authoritative NFHL web services provided by FEMA. The map was exported on July 31, 2025 and is included as Attachment II-11. The minimum ground surface elevation of the transfer station property after development will be 93 feet MSL, while the bottom of the detention pond will be at Elevation 90 feet (see Attachment III-1 Sheet C-500 Grading Plan for finished site elevations).

6.4 Groundwater 30TAC330.549

The proposed site is not located over the recharge zone of the Edwards Aquifer; therefore, this regulatory requirement is not applicable to this registration application. The Geotechnical Evaluation Report contains a section on groundwater (Attachment II-9, Section 5.2)

6.5 Endangered or Threatened Species 30TAC330.551

Tetra Tech conducted an endangered or threatened species study for this application. The report is presented in Attachment II-10.

6.6 Wetlands 30TAC330.553

Tetra Tech conducted a wetlands study for this application and concluded that there are no wetlands on site. The report is presented in Attachment II-10.

6.7 Fault Areas 30TAC330.555

This regulatory requirement is not applicable to this registration application. However, the Geotechnical Evaluation Report (Attachment II-9, Section 5.4) discusses surface faulting.

6.8 Seismic Impact Zones 30TAC330.557

This regulatory requirement is not applicable to this registration application. However, the Geotechnical Evaluation Report (Attachment II-9, Section 5.3) discusses seismic design considerations.

6.9 Unstable Areas 30TAC330.559

This regulatory requirement is not applicable to this registration application. However, the Geotechnical Evaluation Report (Attachment II-9) discusses subsurface conditions and presents engineering analyses and design considerations. The applicant/owner considered the following factors, at a minimum, when determining whether the site contained any unstable areas:

(1) on-site or local soil conditions that may result in significant differential settlement,
(2) on-site or local geologic or geomorphologic features,
(3) on-site or local human-made features or events (both surface and subsurface).

7.0 ATTACHMENTS TO PART I

I-1 Figure 1 General Location Map

I-2 Figure 2 TXDOT County Map

I-3 Figure 3 Land Ownership Map and List

I-4 Property Owner Information

~~Final~~ Preliminary Plat

Metes and Bounds Description

Figure 4 Boundary Survey Drawing

I-5 Core Data Form

8.0 ATTACHMENTS TO PART II

II-1.1 Figure 5 General Location Map (includes Wind Rose)

II-1.2 Figure 6 Buildings Within 500 feet of Site Boundary

II-1.3 Figure 7 Water Wells

Figure 8 Oil & Gas Wells

II-2 Figure 9 Facility Layout Map

Figure 9A Sheet G-220 Construction Phasing Plan

II-3 Figure 10 General Topographic Map

II-4 Figure 11 Aerial Photograph

II-5 Figure 12 Land Use Map

II-6 Zoning Map (Intentionally Blank)

II-7 Agency Letters and Responses

II-8 Transportation Study

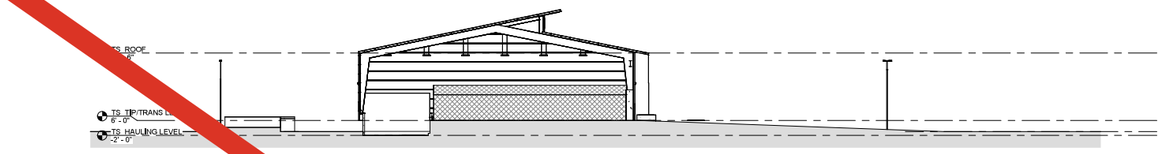
II-9 Geotechnical Evaluation

II-10 Federally and State Listed Species Habitat Assessment and Wetland Determination Report

II-11 Figure 13 Floodplain Map

Appendix 1 Redlined Pages

No pages of Attachment I-4 were redlined.



2 SITE SECTION
SCALE: 1" = 30'-0"

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
P05	PTD, STRIPPING AS SHOWN.
S01	PREFABRICATED DEPOSITORY CHECK-IN BUILDING
S20	CONDENSING UNIT. RE MECHANICAL DRAWINGS.
S25	NEW GENERATOR. REFER TO MEP DRAWINGS

SITE PLAN GENERAL NOTES

1. SITE PLAN INDICATED GENERAL DESIGN INTENT OF ARCHITECTURAL SITE WORK. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR SUB-SURFACE WORK AND LANDSCAPE DRAWINGS FOR OTHER WORK NOT SPECIFIED HEREIN.

2. REFER TO SHEETS G-004 & G-005 FOR TYPICAL ACCESSIBILITY STANDARDS FOR ALL DESIGN STANDARDS AND REQUIREMENTS RELATED TO ACCESSIBILITY.

3. COMPLY WITH THE REQUIREMENTS OF THE TEXAS ACCESSIBILITY STANDARDS FOR ALL DESIGN STANDARDS AND REQUIREMENTS RELATED TO ACCESSIBILITY.

4. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST POSSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE ENTRANCE.

5. ACCESSIBLE PARKING SPACES SHALL BE AT LEAST 96" WIDE AND LEVEL WITH SLOPES NOT EXCEEDING 2% IN ALL DIRECTIONS.

6. ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED BY A SIGN SHOWING THE "SYMBOL OF ACCESSIBILITY". AN ADDITIONAL "VAN ACCESSIBLE" SIGN SHALL BE MOUNTED BELOW FOR ALL VAN ACCESSIBLE SPACES.

7. SLOPES OF CURB RAMPS ALONG AN ACCESSIBLE PATH SHALL NOT EXCEED 1:20. TRANSITIONS FROM RAMPS TO TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE MIN. WIDTH OF A CURB RAMP SHALL BE 36" EXCLUSIVE OF FLARED SIDES. RAMP SURFACES SHALL BE SLIP RESISTANT.

8. CHANGES IN LEVEL UP TO 1/4" MAY BE VERTICAL WITHOUT EDGE TREATMENT. 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.

9. ALL SITE SIGNAGE SHALL COMPLY WITH ALL APPLICABLE CODES, INCLUDING ACCESSIBILITY.

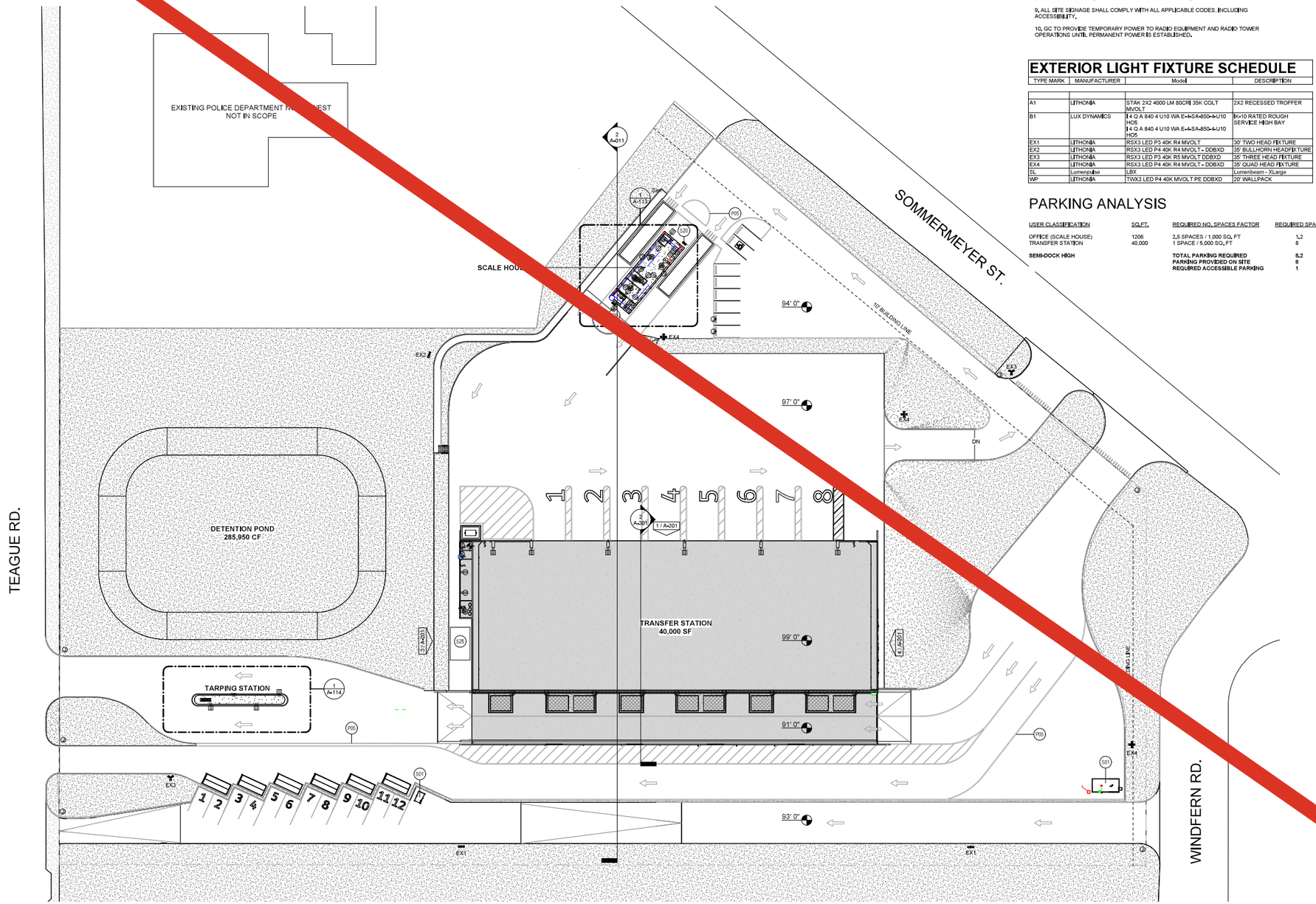
10. GC TO PROVIDE TEMPORARY POWER TO RADIO EQUIPMENT AND RADIO TOWER OPERATIONS UNTIL PERMANENT POWER IS ESTABLISHED.

EXTERIOR LIGHT FIXTURE SCHEDULE

TYPE MARK	MANUFACTURER	Model	DESCRIPTION
A1	LITHONIA	STAK 2X2 4000 LM 80CRI 35K COLT MVOLT	2X2 RECESSED TROFFER
B1	LUX DYNAMICS	4 Q A 840 4 U10 WA E-4-SA-850-4-U10 HO5 4 Q A 840 4 U10 WA E-4-SA-850-4-U10 HO5	8K+10 RATED ROUGH SERVICE HIGH BAY
EX1	LITHONIA	RSX3 LED P3 40K R4 MVOLT	30' TWO HEAD FIXTURE
EX2	LITHONIA	RSX3 LED P4 40K R4 MVOLT - DDBXD	35' BULLHORN HEADFIXTURE
EX3	LITHONIA	RSX3 LED P3 40K R5 MVOLT DDBXD	35' THREE HEAD FIXTURE
EX4	LITHONIA	RSX3 LED P4 40K R4 MVOLT - DDBXD	35' QUAD HEAD FIXTURE
SL	Lumenpulse	LBX	Lumenbeam - XLarge
WP	LITHONIA	TWX3 LED P4 40K MVOLT PE DDBXD	20' WALLPACK

PARKING ANALYSIS

USER CLASSIFICATION	SQ.FT.	REQUIRED NO. SPACES FACTOR	REQUIRED SPACES
OFFICE (SCALE HOUSE)	1206	2.5 SPACES / 1,000 SQ. FT	1.2
TRANSFER STATION	40,000	1 SPACE / 5,000 SQ. FT	8
SEMI-DOCK HIGH		**TOTAL PARKING REQUIRED**	**8.2**
		PARKING PROVIDED ON SITE	**8**
		REQUIRED ACCESSIBLE PARKING	**1**



1 SITE PLAN
SCALE: 1" = 30'-0"

N
0 30' 60'
SCALE : 1" = 30'-0"

Attachment II-2 Figure 9 Original December 2025

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
800 Sampson St #104 Houston, TX 77003
713.868.3121

SOLID WASTE PLANNING: TETRA TECH
1500 CityWest Boulevard, Suite 1000
Houston, TX 77042
936.202.0746

CIVIL: KIMLEY HORN
11700 Katy Fwy #800 Houston, Tx.
77079
281.920.6571

LANDSCAPE : SWA GROUP
712 Main St, 6th Floor Houston TX 77002
469.525.8731

MEP : INFRASTRUCTURE ASSOCIATES
6117 Richmond Avenue, Suite 200
Houston, Texas 77057
713.622.0120

STRUCTURAL : DALLY ASSOCIATES, INC
9800 Richmond Ave., Suite 600, Houston, TX
77042
713 337 8881

TELECOM/ SECURITY : PGA ENGINEERS
3838 N Sam Houston Pkwy E Houston,
TX 77032
832.867.2161

SEALS:

THIS DOCUMENT IS RELEASED FOR INTERIM REVIEW PURPOSES ONLY.
IT IT IS NOT TO BE USED FOR CONSTRUCTION, BIDCONSTRUCTION, FITTING, BIDDING, OR PERMITTING.
AUTHORIZED: DANIEL ORTIZ, AIA
AUTHORIZED: DANIEL ORTIZ, AIA
LICENSE NUMBER: 25004
LICENSE NUMBER: 25004
DATE:
DATE:

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER
SPONSOR/ USER/DEPARTMENT
PROJECT MANAGER

STATE OF TEXAS
JAMES M. NORSTROM
57016
LICENSED PROFESSIONAL ENGINEER
12/01/25
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

For TCEQ Registration Only

DATE: 10/31/2025
WBS NO.: L-000136
SCALE:
DRAWN BY:
CHECKED BY:

SHEET TITLE:
ARCHITECTURAL SITE PLAN

SHEET NO.:
A-011

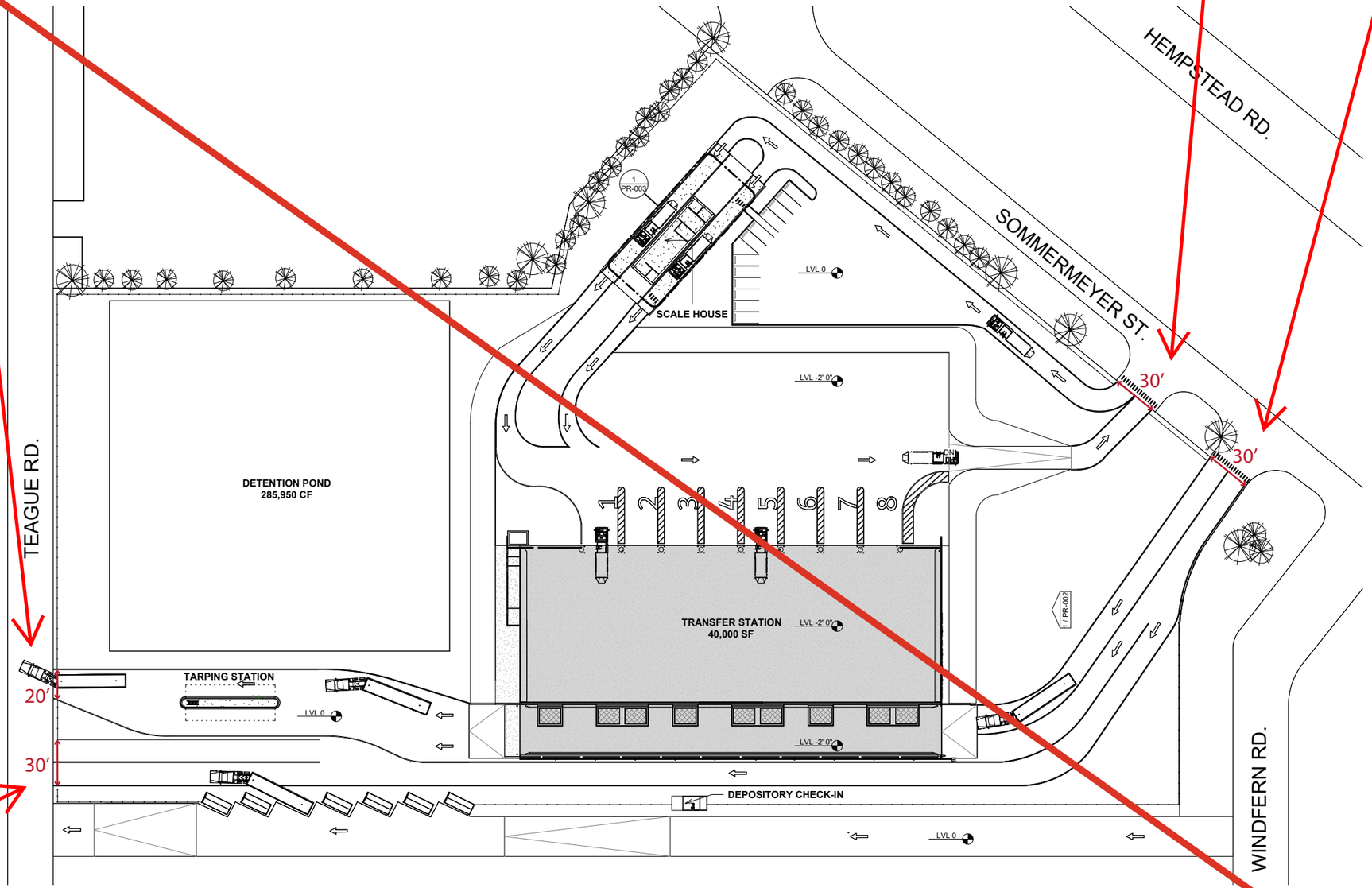
CITY DWG NO.:

A - Route Truck Entrance and Exit

B - Transfer Trailer Entrance & Depository Roll-off Truck Entrance

C - Transfer Trailer Exit

D - Public Depository Roll-off Box Truck Exit



NORTH WEST TRANSFER STATION

SITE PLAN

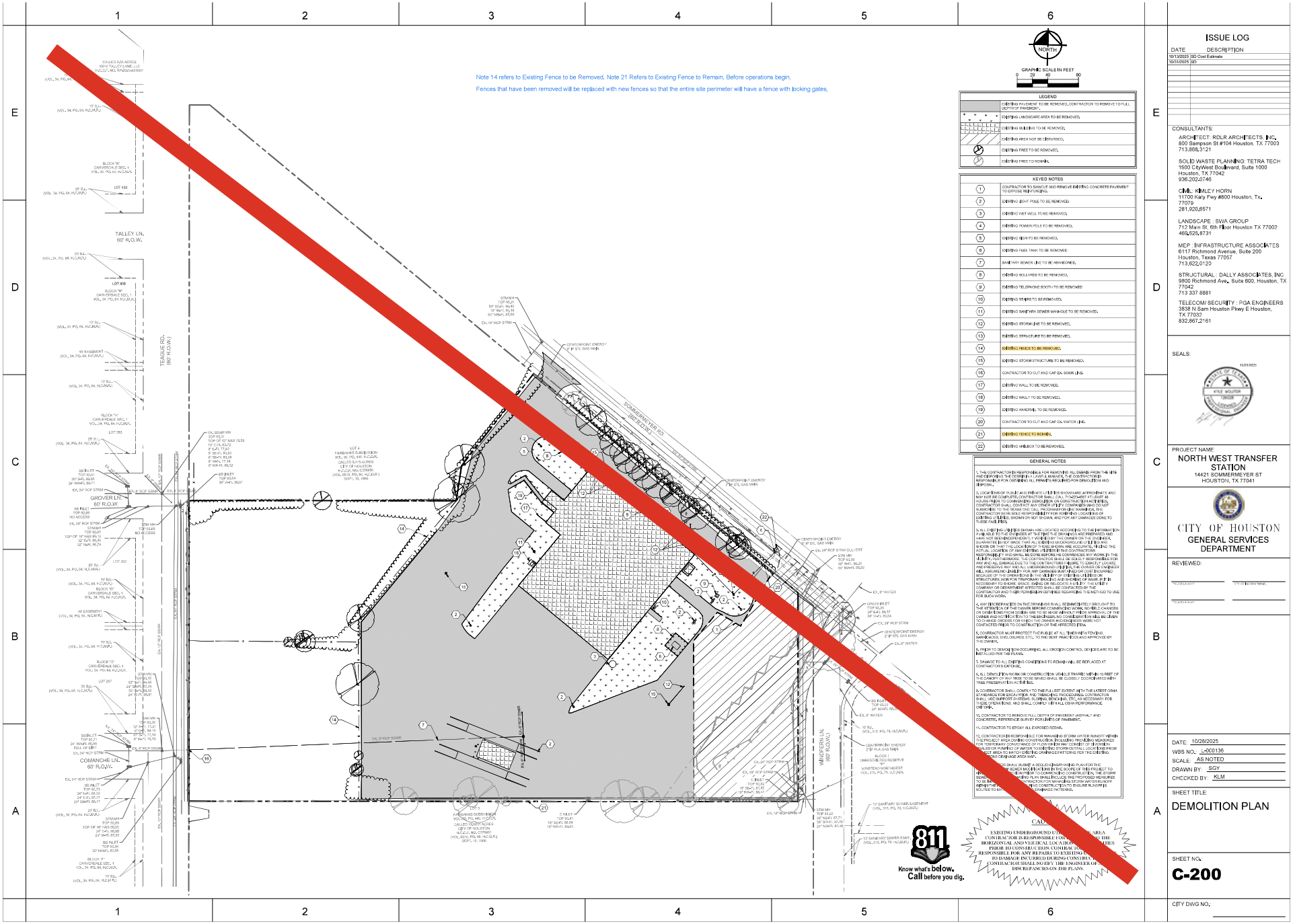
Date: 09/12/2025

Attachment II-8 Transportation Study - Site Plan

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104
Houston, TX 77003

713.868.3121
www.rdlr.com



NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

LEGEND	
	EXISTING PAVEMENT TO BE REMOVED, CONTRACTOR TO REMOVE TO FULL DEPTH OF PAVEMENT.
	EXISTING LANDSCAPE AREA TO BE REMOVED.
	EXISTING BUILDING TO BE REMOVED.
	EXISTING AREA NOT BE DISTURBED.
	EXISTING TREE TO BE REMOVED.
	EXISTING TREE TO REMAIN.

KEYED NOTES	
1	CONTRACTOR TO SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT TO EXPOSE REINFORCING.
2	EXISTING LIGHT POLE TO BE REMOVED.
3	EXISTING WET WELL TO BE REMOVED.
4	EXISTING POWER POLE TO BE REMOVED.
5	EXISTING SIGN TO BE REMOVED.
6	EXISTING FUEL TANK TO BE REMOVED
7	SANITARY SEWER LINE TO BE ABANDONED.
8	EXISTING BOLLARDS TO BE REMOVED.
9	EXISTING TELEPHONE BOOTH TO BE REMOVED
10	EXISTING STAIRS TO BE REMOVED.
11	EXISTING SANITARY SEWER MANHOLE TO BE REMOVED.
12	EXISTING STORM LINE TO BE REMOVED.
13	EXISTING STRUCTURE TO BE REMOVED.
14	EXISTING FENCE TO BE REMOVED.
15	EXISTING STORM STRUCTURE TO BE REMOVED.
16	CONTRACTOR TO CUT AND CAP EX. SSWR LINE.
17	EXISTING WALL TO BE REMOVED.
18	EXISTING VAULT TO BE REMOVED.
19	EXISTING HANDRAIL TO BE REMOVED.
20	CONTRACTOR TO CUT AND CAP EX. WATER LINE.
21	EXISTING FENCE TO REMAIN.
22	EXISTING MAILBOX TO BE REMOVED.

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING IN THE DESIGNATED LANDFILL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.

2. LOCATIONS OF PUBLIC AND PRIVATE UTILITIES SHOWN ARE APPROXIMATE AND MAY NOT BE COMPLETE. CONTRACTOR SHALL CALL 713-223-4567 AT LEAST 48 HOURS PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL CONTACT ANY OTHER UTILITY COMPANIES WHO DO NOT SUBSCRIBE TO THE TEXAS ONE CALL PROGRAM AND LINE MARKINGS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VERIFYING LOCATIONS OF EXISTING UTILITIES SHOWN OR NOT SHOWN, AND FOR ANY DAMAGES DONE TO THOSE FACILITIES.

3. ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS AND PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTORS RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES TO THE SUBCONTRACTING RELATIVE TO EXACTLY LOCATING AND PRESERVING ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL ASSUME TOTAL LIABILITY FOR ANY DAMAGES OR ADDITIONAL COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME, IF IT IS NECESSARY TO SHORE, BRACE, BARE OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THEMETHOD TO USE FOR SUCH WORK.

4. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNERS BEFORE COMMENCING WORK, AND FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOT AS DIRECTED BY THE CONTRACTOR. NO COMPENSATION WILL BE GIVEN TO CHANGE ORDERS FOR WORK THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.

5. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., TO THE BEST PRACTICES AND APPROVED BY THE OWNER.

6. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED PER THE PLANS.

7. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.

8. ALL DEMOLITION WORK OR CONSTRUCTION VEHICLE TRAFFIC WITHIN 10 FEET OF THE CANOPY OF ANY TREE TO BE SAVED SHALL BE CLOSELY COORDINATED WITH TREE PRESERVATION AUTHORITIES.

9. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS FOR EXCAVATION AND TRENCHING PROCEDURES. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, ETC, AS NECESSARY FOR THESE OPERATIONS, AND SHALL COMPLY WITH ALL OSHA PERFORMANCE CRITERIA.

10. CONTRACTOR TO REMOVE FULL DEPTH OF PAVEMENT (ASPHALT AND CONCRETE). REFERENCE SURVEY FOR LIMITS OF PAVEMENT.

11. CONTRACTOR TO EPOXY ALL EXPOSED REBAR.

12. CONTRACTOR IS RESPONSIBLE FOR MANAGING STORM WATER RUNOFF WITHIN THE PROJECT AREA DURING CONSTRUCTION, INCLUDING PROVIDING MEASURES FOR TEMPORARY CONVEYANCE OF FLOW WHEN ANY CONSIST OF DIVERSION BERMS OR PUMPING OF WATER TO EXISTING STORM OUTFALL LOCATIONS FROM THE SITE AREA TO MATCH EXISTING DRAINAGE PATTERNS PER THE EXISTING DRAINAGE AREA MAP.

13. CONTRACTOR SHALL SUBMIT A SEQUENCED PHASE PLAN FOR THE [illegible] BOARD MOBILIZATION IN THE SCOPE OF THIS PROJECT TO THE [illegible] PRIOR TO COMMENCING CONSTRUCTION. THE STORM [illegible] PLAN SHALL INCLUDE THE PROPOSED MEASURES TO BE IMPLEMENTED BY THE CONTRACTOR FOR MANAGING STORM WATER RUNOFF WITHIN THE [illegible] CONSTRUCTION TO ENSURE RUNOFF IS ROUTED TO MAINTAIN EXISTING DRAINAGE PATTERNS.

CAUTION

EXISTING UNDERGROUND UTILITIES IN THE AREA
CONTRACTOR IS RESPONSIBLE FOR LOCATING THE
HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES
PRIOR TO CONSTRUCTION. CONTRACTOR IS
RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES
DUE TO DAMAGE INCURRED DURING CONSTRUCTION.
CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY
DISCREPANCIES ON THE PLANS.

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
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713.868.3121

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713 337 8881

TELECOM/ SECURITY : PGA ENGINEERS
3838 N Sam Houston Pkwy E Houston,
TX 77032
832.867.2161

SEALS:

10/31/2025

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

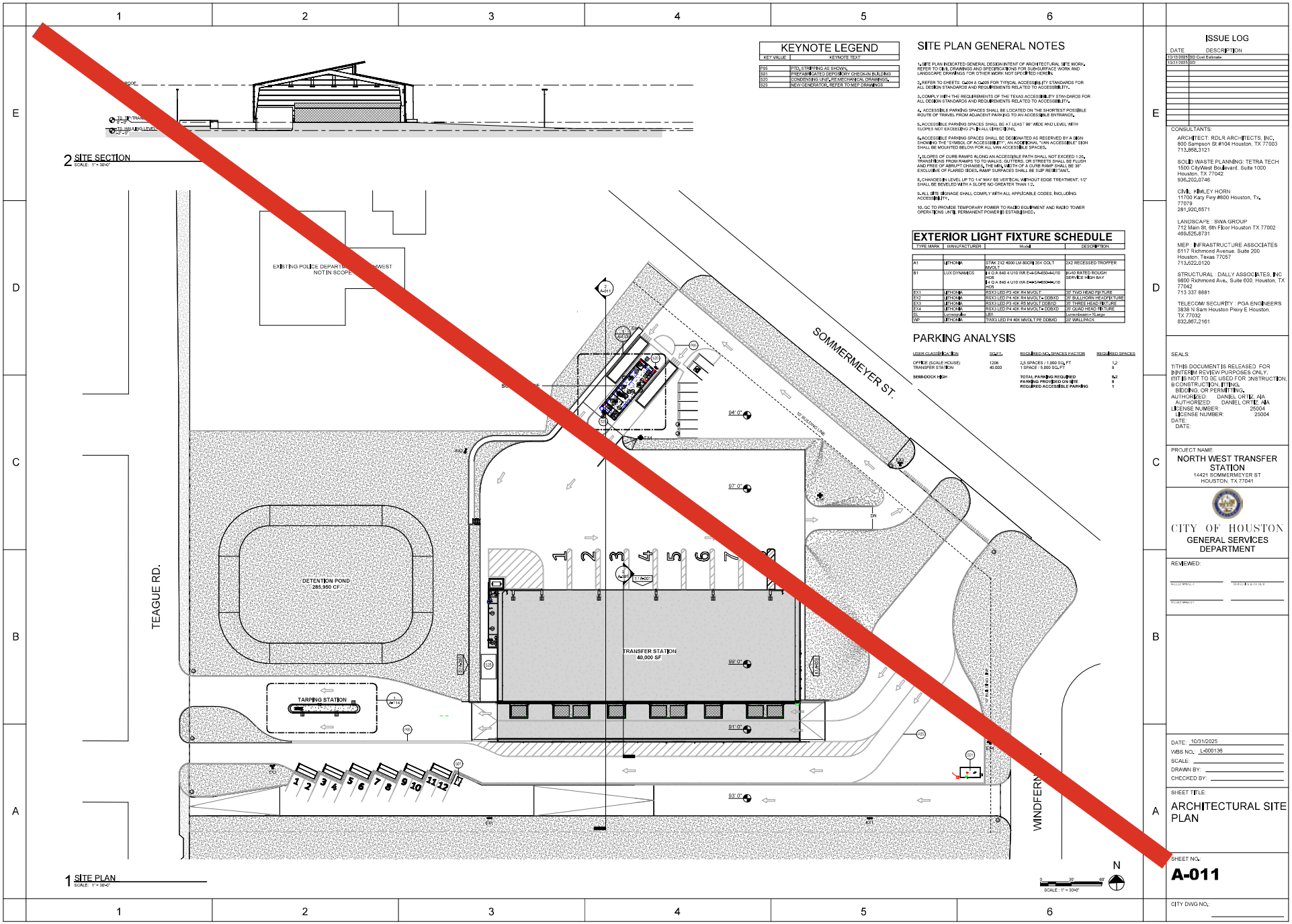
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DRAWN BY: SGY
CHECKED BY: KLM

SHEET TITLE:
DEMOLITION PLAN

SHEET NO.
C-200

CITY DWG NO.:



KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
P05	PTD, STRIPPING AS SHOWN.
S01	PREFABRICATED SERVICE KEY CHECKIN BUILDING
S20	CONDENSING UNIT, REMECHANICAL DRAWINGS.
S25	NEW GENERATOR, REFER TO MEP DRAWINGS

SITE PLAN GENERAL NOTES

1. SITE PLAN INDICATED GENERAL DESIGN INTENT OF ARCHITECTURAL SITE WORK. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR SUB-SURFACE WORK AND LANDSCAPE DRAWINGS FOR OTHER WORK NOT SPECIFIED HEREIN.

2. REFER TO SHEETS G-004 & G-005 FOR TYPICAL ACCESSIBILITY STANDARDS FOR ALL DESIGN STANDARDS AND REQUIREMENTS RELATED TO ACCESSIBILITY.

3. COMPLY WITH THE REQUIREMENTS OF THE TEXAS ACCESSIBILITY STANDARDS FOR ALL DESIGN STANDARDS AND REQUIREMENTS RELATED TO ACCESSIBILITY.

4. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST POSSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE ENTRANCE.

5. ACCESSIBLE PARKING SPACES SHALL BE AT LEAST 96" WIDE AND LEVEL WITH SLOPES NOT EXCEEDING 2% IN ALL DIRECTIONS.

6. ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED BY A SIGN SHOWING THE "SYMBOL OF ACCESSIBILITY". AN ADDITIONAL "VAN ACCESSIBLE" SIGN SHALL BE MOUNTED BELOW FOR ALL VAN ACCESSIBLE SPACES.

7. SLOPES OF CURB RAMPS ALONG AN ACCESSIBLE PATH SHALL NOT EXCEED 1:20. TRANSITIONS FROM RAMPS TO TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE MIN. WIDTH OF A CURB RAMP SHALL BE 36" EXCLUSIVE OF FLARED SIDES. RAMP SURFACES SHALL BE SLIP RESISTANT.

8. CHANGES IN LEVEL UP TO 1/4" MAY BE VERTICAL WITHOUT EDGE TREATMENT. 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.

9. ALL SITE SIGNAGE SHALL COMPLY WITH ALL APPLICABLE CODES, INCLUDING ACCESSIBILITY.

10. GC TO PROVIDE TEMPORARY POWER TO RADIO EQUIPMENT AND RADIO TOWER OPERATIONS UNTIL PERMANENT POWER IS ESTABLISHED.

EXTERIOR LIGHT FIXTURE SCHEDULE

TYPE MARK	MANUFACTURER	Model	DESCRIPTION
A1	LITHONIA	STAK 2X2 4000 LM 80CRI 35K CDLT	2X2 RECESSED TROFFER MVOLT
B1	LUX DYNAMICS	[illegible]	IK-10 RATED ROUGH SERVICE HIGH BAY
EX1	LITHONIA	RSX3 LED P3 40K R4 MVOLT	20' TWO HEAD FIXTURE
EX2	LITHONIA	RSX3 LED P4 40K R4 MVOLT • DDBXD	20' BULLHORN HEADFIXTURE
EX3	LITHONIA	RSX3 LED P3 40K R5 MVOLT DDBXD	35' THREE HEAD FIXTURE
EX4	LITHONIA	RSX3 LED P4 40K R4 MVOLT • DDBXD	35' QUAD HEAD FIXTURE
SL	Lumosaire	LBX	Lumenbeam - XLarge
WP	LITHONIA	TWX3 LED P4 40K MVOLT PE DDBXD	20' WALLPACK

PARKING ANALYSIS

USER CLASSIFICATION	SQ FT	REQUIRED NO. SPACES FACTOR	REQUIRED SPACES
OFFICE (SCALE HOUSE)	1206	2.5 SPACES / 1,000 SQ. FT	1.2
TRANSFER STATION	40,000	1 SPACE / 5,000 SQ.FT	8
SEMI-DOCK HIGH		TOTAL PARKING REQUIRED	8.2
		PARKING PROVIDED ON SITE	8
		REQUIRED ACCESSIBLE PARKING	1

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD

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713 337 8881

TELECOM/ SECURITY : PGA ENGINEERS
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832.967.2161

SEALS:

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AUTHORIZED: DANIEL ORTIZ, AIA
LICENSE NUMBER: 25004
LICENSE NUMBER: 25004
DATE:
DATE:

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

DATE: 10/31/2025
WBS NO.: L-000136
SCALE:
DRAWN BY:
CHECKED BY:

SHEET TITLE:
ARCHITECTURAL SITE PLAN

SHEET NO.
A-011

CITY DWG NO.:

Type V Registration Application No. 40348
Northwest Transfer Station
14421 Sommermeyer Street, Houston, Texas

Parts I & II
General Information and Existing Conditions

Prepared for:

City of Houston General Services and Solid Waste Management Departments

611 Walker Street, Houston, Texas 77002

Prepared by:



TBPELS Registration No. F-3924

1500 CityWest Boulevard, Suite 1000, Houston, TX 77042

936-202-0746

December 2025, Revised March 2026



Parts I & II
Type V Transfer Station Registration Application
Houston, TX

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1.0 PURPOSE OF APPLICATION

The purpose of this application is to obtain a new MSW Type V Registration for the City of Houston's (COH) Northwest Transfer Station. The facility received Texas Department of Health Permit No. 1092 on November 28, 1997 which was replaced by TNRCC Type V Registration No. 40133 on February 2, 2001. Since then, there have been several modifications to the Registration, the most recent being December 16, 2010 according to the TCEQ Central Registry.

The transfer station building stopped receiving waste in 2023 when the COH decided to replace the existing building with a new building, scalehouse, tarping station, and pavements. The Citizen's Collection Station (called Depository by the COH) continued to accept waste so Registration No. 40133 has remained active. The facility is located at 14421 Sommermeyer Street, Houston, TX 77041.

In a TEAMS meeting held on June 20, 2025, the TCEQ informed the COH and Tetra Tech that Registration No. 40133 will remain active during demolition and reconstruction as long as the Depository remains active. A complete new Type V Registration Application will be required to register the newly constructed facility.

1.1 Registration Justification 30TAC330.9(e)

A registration, instead of a permit, is required for any new MSW Type V transfer station that includes a material recovery operation that meets all the following requirements:

330.9(e)(1) Materials Recovery

The City of Houston operates one or more source-separation recycling programs in the county where the transfer station is located and those source-separation recycling programs manage a total weight or weight equivalent of recyclable materials equal to 10 percent or more by weight or weight equivalent of the incoming waste stream to all transfer stations to which credit is being applied. Records from the City of Houston Solid Waste Department from 2020 through 2024 in the table below demonstrate that the 10 percent diversion requirement is exceeded.

	Compacted Waste (tons)					Non-Compacted Waste (tons)						Curbside Recycling (tons)						Yard Waste Recycling (tons)						Tree Waste Recycling (tons)					
Month	2020	2021	2022	2023	2024	Month	2020	2021	2022	2023	2024	Month	2020	2021	2022	2023	2024	Month	2020	2021	2022	2023	2024	Month	2020	2021	2022	2023	2024
Jan	37,877	37,820	35,858	39,674	37,689	Jan	13,629	12,293	9,523	10,300	10,509	Jan	5,458	5,958	6,467	5,386	5,068	Jan	1,081	1,131	528	482	377	Jan	5,226	5,310	4,293	4,208	3,357
Feb	31,556	33,401	31,634	31,977	33,296	Feb	28,416	24,285	21,605	23,366	24,261	Feb	4,090	3,607	4793	4,280	5,135	Feb	990	665	326	288	181	Feb	305	385	410	454	536
Mar	38,899	43,061	36,576	38,046	35,839	Mar	17,322	18,441	13,272	21,878	14,130	Mar	5,027	6,641	5,744	5,157	4,870	Mar	1,548	2,324	320	334	236	Mar	6,604	8,477	5,078	5,153	6,083
Apr	40,170	40,666	36,424	34,122	37,587	Apr	36,977	33,504	27,306	31,968	17,892	Apr	5,737	6,022	0	5,110	5,048	Apr	943	1,508	323	357	97	Apr	564	576	503	925	807
May	39,156	36,448	35,418	37,959	41,298	May	17,451	25,504	11,958	14,459	17,691	May	5,935	5,695	5,001	5,164	5,500	May	839	1,060	298	380	25	May	13,504	1,035	4,540	5,484	4,540
Jun	40,844	40,401	36,562	36,515	34,831	Jun	31,320	33,894	19,936	39,315	21,114	Jun	6,073	6,439	5360	4,410	5,735	Jun	780	796	245	405	0	Jun	607	856	531	2052	1003
Jul	40,854	39,655	33,999	33,835	45,040	Jul	19,367	17,027	7,409	18,612	16,781	Jul	5,994	6,288	4521	5,097	5,966	Jul	870	775	210	263	27	Jul	6,187	5,465	3,304	5,866	2,611
Aug	37,423	37,333	35,956	32,789	67,275	Aug	28,510	27,699	19,577	21,776	30,070	Aug	5,795	5,405	5368	4,662	5,395	Aug	814	506	208	255	68	Aug	673	595	550	663	2019
Sep	37,796	38,037	34,130	31,566	33,978	Sep	10,747	9,212	8,839	10,411	19,662	Sep	5,887	6,012	4793	4,672	4,680	Sep	676	545	307	258	18	Sep	6,237	8,218	4,681	4,134	1,526
Oct	38,396	35,781	30,095	33,607	33,099	Oct	30,169	29,958	19,982	26,253	22,662	Oct	5,735	5,402	4,056	4,617	5,060	Oct	735	555	497	305	44	Oct	417	708	0	687	1138
Nov	36,376	38,350	33,109	34,659	33,641	Nov	10,702	22,093	11,667	11,576	19,743	Nov	5,303	5,195	4,265	4,401	4,341	Nov	837	701	331	331	35	Nov	5,001	506	3561	3528	838
Dec	39,758	38,578	36,292	35,860	35,598	Dec	24,820	23,964	19,321	20,942	21,169	Dec	5,707	5,205	4,795	4,772	4,652	Dec	960	791	540	318	46	Dec	406	374	249	299	584
Total	418,302	459,531	416,052	420,608	469,169	Total	269,430	277,874	190,396	250,857	235,682	Total	66,741	67,869	55,162	57,729	61,449	Total	11,073	11,357	4,133	3,975	1,155	Total	45,731	32,505	27,701	33,452	25,041

Toal Compacted And Non-Compacted (tons)		Total diverted from the landfill (tons)		% Diverted =Total Diverted from Landfill/Total Incoming Waste Stream to all Transfer Stations
2020	687,732	2020	123,545	18%
2021	737,405	2021	111,731	15%
2022	606,448	2022	86,996	14%
2023	671,465	2023	95,157	14%
2024	704,852	2024	87,645	12%

The City Solid Waste Department collects waste from over 395,000 residences within city limits. The numbers in the table are for all waste and recyclables collected at the curb from those residences. The City

also has a reuse warehouse and three environmental service centers where material is recycled, and those recycled volumes are not included in the table.

The **Curbside Recycling** materials are collected by City vehicles from residences as co-mingled recyclables which typically include cardboard, paper, plastic, glass, and metal.

All recyclable material from the City's curbside recycling service is delivered to the materials recovery facility (M.R.F) operated by F.C.C. at 9172 Ley Road, Houston, TX 77078. F.C.C. sorts and packages the recyclables and then distributes them to various companies for processing.

Yard Wastes and Tree Wastes are collected by City vehicles from residences and transported to Living Earth Technologies where they are processed and placed in bags with City of Houston seals and sold as mulch.

Weighing is done at the landfill for waste, F.C.C MRF on Ley Road for recyclables, and at Living Earth Technologies for green waste.

330.9(e)(2) Distance to Landfill

The proposed transfer station will transport non-recyclable waste to a landfill that is not more than 50 miles from the facility. Distances from the Northwest Transfer Station to several Type I Landfills follow:

- Republic Services McCarty Road Landfill 24.8 miles
- Waste Management Atascocita Landfill 26.8 miles
- Republic Services Blue Ridge Landfill 31.8 miles
- GFL's Fort Bend Regional Landfill 40.1 miles

The proposed transfer station will also accept and transport Source-Separated Recyclable Material (30 TAC 328.2(6)) to a material recovery facility.

2.0 PROPERTY AND OWNERSHIP SUMMARY

The proposed facility will be a 7.58-acre MSW Type V Transfer Station located in Houston, Harris County, Texas to replace the transfer station that has operated under Type V Registration 40133 since 2001. The location of the proposed facility is shown on Attachments I-1 and I-2. An aerial photograph showing the proposed facility is included as Attachment II-4, and the general topographic map is included as Attachment II-3.

The City of Houston owns the facility property as confirmed by the signed and notarized Property Owner Affidavit dated January 5, 2026 in the Part I Application Form TCEQ-00650 (see NOD1 response). The physical address is 14421 Sommermeyer Street, Houston, Texas 77041. As required by 330.67(b), the City of Houston shall retain the right of entry to the facility until the end of the post-closure care period for inspection and maintenance of the facility.

2.1 Property Owner Information 30TAC330.59(d)

The property ownership information for the proposed facility is summarized in the following sections.

2.1.1 Legal Description

In accordance with 30 TAC §330.59(d)(l), the property owner information is presented in Attachment I-4 and includes the Preliminary Plat, metes and bounds description, and drawing of the metes and bounds description (Boundary Survey). The City of Houston Plat approval and Harris County recording information for the property are included.

The property consists of 7.58 acres situated in the John Riden Survey, Abstract No. 669, City of Houston, Texas.

2.1.2 Property Owner Affidavit

A Property Owner Affidavit is provided by the City of Houston and included in the Part I form.

2.2 Adjacent Land Ownership 30TAC330.59(c)(3)

The Harris County Appraisal District Tax Rolls and Tax Maps were reviewed to determine land ownership of adjacent and potentially affected properties. Searches of Harris County Appraisal District records did not indicate any mineral interest owners. The land ownership map and list for each tract within a ¼ mile of the facility registration boundary is presented in Attachment I-3.

2.3 Easements 30TAC330.61(c)(10)&(g)

The boundary survey shows three easements along the east, northeast, and west property lines. (Attachment I-4). Solid waste operations will not be conducted on or within 25 feet of the centerline of any of these easements.

2.4 Legal Authority 30TAC330.59(e)

The City of Houston owns the property as indicated by the Property Owner Affidavit included in the Part I Application Form 0650.

2.5 Evidence of Competency 30TAC330.59(f)

The evidence of competency for this registration application meets the requirements of 30 TAC §330.59(f). The following sections address each subsection of the regulation.

30 TAC §330.59(f)(1)

The Texas solid waste sites that have been owned or operated by City of Houston within the last 10 years are:

Site Name	Site Type	Permit or Registration Number	County	Dates of Operation
Southeast Transfer Station	MSW Type V	40131	Harris	10/13/97 to present
Southwest Transfer Station	MSW Type V	40132	Harris	10/13/97 to present
Northwest Transfer Station	MSW Type V	40133	Harris	10/13/97 to present

30 TAC §330.59(f)(2)

The City of Houston has no financial interest in any solid waste sites in other states, territories, or countries.

30 TAC §330.59(f)(3)

The City of Houston will employ a licensed solid waste facility supervisor, as defined in Chapter 30 of this title (relating to Occupational Licenses and Registrations), before commencing site operation.

30 TAC §330.59(±)(4)

The following officers and supervisors have substantial experience in the waste services industry and are well-qualified principals and supervisors.

DeMarcus Glass
1245 Judiway, Houston Tx, 77018
C. 281-782-8171 O. 832-393-7821 [redacted]
21 Years Solid Waste Experience

Derek Mebane
1506 Central St., Houston, Texas 77012
C. 713-492-8683 O. 832-393-0441 [redacted]
30 yrs. Solid Waste Experience
TCEQ MSW Operator A (SW0002828-Expired)

Maurice Renfro
11500 South Post Oak, Houston, Texas 77035
C. 832-454-9109 O-832-393-7964 [redacted]
22 Years Solid Waste Experience
TCEQ MSW Operator A (Expired)

2.6 Appointments 30TAC330.59(g)

Mr. Eric Boehm, Project Manager in City of Houston Solid Waste Management Department, is the designated individual who will sign the registration application for the facility.

2.7 Application Fees 30TAC330.59(h)

The application fee was paid online (TCEQ ePay system) - Trace Number: 582EA000674490, TCEQ Amount: $150.00, Texas.gov Price: $153.63 on June 30, 2025.

2.8 Application Posting Information 30TAC330.57(i)

In accordance with 30 TAC §330.57(i)(l), a complete copy of this registration application is posted to the internet at the following address: **http://www.houstontx.gov/solidwaste/longrange/**. All future revisions or supplements to this registration application will be posted at the same location.

The TCEQ website will also contain information on the filing of this registration application along with a link to the above-mentioned web address.

In accordance with 30 TAC §330.57(i)(3), the owner or operator is required to post notice signs at specified intervals along the permit boundary bordering a public road (Sommermeyer Street) for information purposes.

2.9 Existing Permits/Authorizations

See Part I Application Form TCEQ-0650, Section 11 for a list of permits and construction approvals. Please note the following:

- The applicant or contractor will obtain coverage under the TPDES Construction Stormwater General Permit before starting construction

- The City of Houston will obtain coverage under the Stormwater General Permit for Industrial Facilities before starting operations, unless they obtain a No Exposure Certification.
- This facility qualifies for the Standard Air Permit under 30 TAC Chapter 330 Subchapter U. The applicant acknowledges that the construction and operation of the facility will comply with 30 TAC Subchapter U.

3.0 WASTE ACCEPTANCE PLAN

The facility will include a transfer station building served by a loading tunnel, scales, paved roadways, a pressurized waterline for fire extinguishing water, a waterline for the restroom, breakroom, and wash-water supply, a grit trap, an employee restroom, an employee breakroom/storage room, parking, and drainage features/structures. The facility will discharge contaminated water and sanitary sewage directly into the City of Houston sanitary sewer system.

The building will be served by a paved entry area in front of the building entrance, which is designed to facilitate waste truck entry to the building while preventing surface water entering the processing floor. The processing area (tipping floor) will be used for unloading, loading, and storage. A Site Layout Plan is included as Attachment III-1. The general design and construction details for the building components are presented in Attachments III-3 through III-6. Operation is discussed in Part IV of the application.

In addition to wastes that are unloaded and destined for disposal facilities, Source-Separated Recyclable Material (30 TAC 328.2(6)) may be accepted, unloaded, and reloaded into trucks for transport to material recovery facilities.

3.1 Sources and Characteristics of Waste 30TAC330.61(b)(1)

The acceptable waste characteristics, waste restrictions, general sources and service areas, waste rates, and storage and disposal requirements for the proposed facility are summarized in the following sections. There are no known constituents or characteristics in the acceptable waste stream that could impact or influence the design and operation of the facility.

Source-Separated Recyclable Material (30 TAC 328.2(6)) is acceptable and when accepted and managed on the tipping floor, no waste will be allowed on the tipping floor. Similarly, when waste is managed on the tipping floor, Source-Separated Recyclable Material will not be allowed on the tipping floor. The tipping floor will be washed down before changing from management of waste to Source-Separated Recyclable Material and before changing from management of Source-Separated Recyclable Material to waste. The tipping floor is shown in Attachment III-4, Sheets A-112, A-301, and A-302.

General operations will be conducted in a manner that allows for the prompt and efficient unloading of waste or Source-Separated Recyclable Material. The waste or Source-Separated Recyclable Material will be discharged from the collection vehicles onto the facility processing floor (tipping floor). Waste or Source-Separated Recyclable Material will be loaded into open top transfer trailers, which will be tarped before driving to an authorized disposal or recycling facility.

3.1.1 Waste Types

Waste accepted at the facility is expected to consist of the following wastes as defined in 30 TAC §330.3:

Primary Waste Types:

- Municipal Solid Waste - Solid waste resulting from or incidental to municipal, community, commercial, institutional, and recreational activities, including garbage, rubbish, ashes, street cleanings, and all other solid waste other than industrial solid waste
- Putrescible Waste - Organic wastes, such as garbage, that are capable of being decomposed by microorganisms with sufficient rapidity as to cause odors or gases or are capable of providing food for or attracting birds, animals, and disease vectors
- Rubbish – Non-putrescible solid waste (excluding ash), consisting of both combustible and noncombustible waste materials. Combustible rubbish includes paper, rags, cartons, wood, excelsior, furniture, rubber, plastics, brush, or similar materials; noncombustible rubbish includes glass, crockery, tin cans, aluminum cans, and similar materials that will not bum at ordinary incinerator temperatures (1,600 to 1,800 degrees Fahrenheit)
- Yard Waste - Leaves, grass clippings, yard and garden debris, and brush, including clean woody vegetative material not greater than six inches in diameter that results from landscaping maintenance and land-clearing operations. The term does not include stumps, roots, or shrubs with intact root balls
- Construction and demolition (C & D) Debris - Debris resulting from construction or demolition projects; includes all materials that are directly or indirectly the by-products of construction work or that result from demolition of buildings and other structures, including, but not limited to, paper, cartons, gypsum board, wood, excelsior, rubber, and plastics

Other Waste Types:

- Class 2 Industrial Wastes - Any individual solid waste or combination of industrial solid wastes that are not described as Hazardous, Class 1, or Class 3 as defined in §30 TAC 335.506 (relating to Class 2 Waste Determination)
- Class 3 Industrial Wastes - Inert and essentially insoluble industrial solid waste, usually including, but not limited to, materials such as rock, brick, glass, dirt, and certain plastics and rubber, etc., that are not readily decomposable, as further defined in §335.507 of the TCEQ regulations (relating to Class 3 Waste Determination)

Source-Separated Recyclable Material:

- As defined in 30 TAC Chapter 328.2(6) - Source-separated recyclable material is recyclable material from residential, commercial, municipal, institutional, recreational, industrial, and other community activities, that at the point of generation has been separated, collected, and transported separately from municipal solid waste, or transported in the same vehicle as municipal solid waste, but in separate containers or compartments. Source-separation does not require the recovery or separation of non-recyclable components that are integral to a recyclable product, including:
    - (A) the non-recyclable components of white goods, whole computers, whole automobiles, or other manufactured items for which dismantling and separation of recyclable from non-recyclable components by the generator are impractical, such as insulation or electronic components in white goods;
    - (B) source-separated recyclable material rendered unmarketable by damage during collection, unloading, and sorting, such as broken recyclable glass; and
    - (C) tramp materials, such as:
        - (i) glass from recyclable metal windows;
        - (ii) nails and roofing felt attached to recyclable shingles;
        - (iii) nails and sheetrock attached to recyclable lumber generated through the demolition of buildings; and (iv) pallets and packaging materials.

The facility will not accept the following wastes:

- Special wastes, other than Class 2 and Class 3 industrial wastes
- Special waste from health-care facilities
- Waste from commercial or industrial wastewater treatment plants, air pollution control facilities, and tanks, drums, or containers used for shipping or storing any material that has been listed as a hazardous constituent in 40 code of Federal Regulations (40 CFR), Part 261, Appendix VIII but has not been listed as a commercial product in 40 CFR, §261.33(e) or (f)
- Slaughterhouse wastes
- Dead animals
- Pesticide (insecticide, herbicide, fungicide, or rodenticide) containers in accordance with 30 TAC §330.136(b)(5)
- Discarded materials containing asbestos
- Incinerator ash
- Soil contaminated by petroleum products, crude oils, or chemicals
- Hazardous wastes
- Polychlorinated biphenyls (PCB) waste
- Radioactive waste
- Unknown chemical or containerized waste
- Class 1 non-hazardous industrial waste
- Regulated Asbestos Containing Materials (RACM)
- Lead acid batteries
- Do-it-Yourself (DIY) used motor vehicle oil
- Used oil filters from internal combustion engines
- Whole used or scrap tires - Tires that are, at minimum, split in half or quartered will be accepted since they are allowed to be disposed of at landfills
- Items containing chlorinated fluorocarbons (CFC' s), such as refrigerators, freezers, and air conditioners, will only be accepted at the site if the generator or transporter provides written certification that the CFC has been evacuated from the unit and that it was not knowingly allowed to escape into the atmosphere
- Liquid waste (any waste material that is determined to contain “free liquids" as deemed by EPA Method 9095 (Paint Filter Test), as described in "Test Methods for Evaluating Solid Wastes, Physical Chemical Methods" (EPA Publication Number SW-846)) shall not be accepted unless it is bulk or non-containerized liquid waste that is household waste other than septic waste, or contained liquid waste and the container is a small container similar in size to that normally found in household waste, the container is designated to hold liquids for use other than storage, or the waste is a household waste

3.1.2 Waste Generation Areas

The proposed transfer station is planned to serve the City of Houston and Harris County and may serve other counties.

3.1.3 Projected Waste Acceptance Rate

The projected amount of waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) to be received daily and annually for the next five years of the facility operation is presented below. The daily waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) acceptance rate will range from approximately 500 tons per day (182,500 tons/year for 7 days/week operation) to approximately 2,000 tons per day (730,000 tons/year for 7 days/week operation). The estimated waste acceptance rate may fluctuate during the life of the facility and should not be considered a limit.

3.1.4 Projected Population Equivalent

Based on the TCEQ definition for population equivalency, the average volume per ton of waste is three cubic yards with a generation rate of five pounds per person per day.

The population equivalent served by the transfer station based on waste intake rate is:

500 tons/day (182,500 tons/year)

5 pounds per person per day x 365 days per year = 1,825 pounds = 0.91 tons per person per year

Population Equivalent = (182,500 tons per year) / (0.91 tons per person per year) = 200,549 people

2,000 tons/day (730,000 tons/year)

5 pounds per person per day x 365 days per year = 1,825 pounds = 0.91 tons per person per year

Population Equivalent = (730,000 tons per year) / (0.91 tons per person per year) = 802,197 people

3.1.5 Waste Storage and Disposal

The maximum volume of waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) that will be stored at the transfer station at any given time is 2,000 tons. Waste and Source-Separated Recyclable Material will not be stored at the transfer station at the same time. All waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) storage or holding will occur within the building. No storage of waste materials or Source-Separated Recyclable Material (30 TAC 328.2(6)) will occur outside of the building. Solid waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) will be stored on average for four hours and a maximum of six hours while being processed. The solid waste will not be allowed to accumulate long enough to allow the creation of nuisances or public health hazards due to odors, fly breeding, or harborage of other vectors. Storage periods significantly above average that are caused by equipment breakdowns will only be permitted for the time required to repair or replace the malfunctioning equipment. The maximum holding time under these circumstances will not exceed 48 hours with an average holding time of 24 hours. During time periods including holidays, the solid waste may be temporarily stored at the site not to exceed 72 hours.

Acceptable wastes received will be reloaded and transported to a Type I landfill permitted by the TCEQ. Source-Separated Recyclable Material will be accepted, unloaded on the tipping floor, and reloaded into trucks for transport to material recovery facilities. Waste and Source-Separated Recyclable Material will not be allowed on the tipping floor at the same time and the floor will be washed down before transitioning from one material to the other.

Whole scrap tires will be removed from the waste stream and disposed of or recycled according to 30 TAC Chapter 328. Whole or scrap tires will be transported to a local registered scrap tire processor. Tires that are, at a minimum, split in half or quartered are allowed at Type I landfills. Special wastes, liquid wastes, hazardous wastes, and PCB wastes will not be accepted.

3.2 Regional Solid Waste Management 30TAC330.61(p)

30 TAC §330.61(p) requires that the owner or operator provide documentation that Parts I and II of the registration application were submitted for review to the applicable council of governments for compliance with regional solid waste plans. The regional authority for Harris County is the Houston- Galveston Area Council (HGAC). The HGAC is an intergovernmental planning agency that serves a 13-county region, encompassing the Houston metropolitan area. HGAC's solid waste management plan is entitled Regional Solid Waste Management Plan 2022–2042 (.https://www.h-gac.com/community-and-environmental-planning-publications/solid-waste-and-recycling).

Parts I and II of this application have been sent to the HGAC for review. A copy of the related correspondence is included in Attachment II-7.

3.3 Local Solid Waste Management 30TAC330.61(p)

30 TAC §330.61(p) requires that the owner or operator requests a review letter from local governments for compliance with the local solid waste plan. The City of Houston provided a letter (Attachment II-7) indicating compliance with their long-term solid waste management plan, which is entitled the Integrated Resource Recovery Management Plan, available at http://www.houstontx.gov/solidwaste/longrange. Harris County does not have a solid waste management plan, therefore, submittal to Harris County was not necessary.

4.0 EXISTING CONDITIONS SUMMARY

In accordance with 30 TAC 330.61, the following sections include Part II of the registration application that summarize the existing conditions of the facility property and the surrounding area. The main topics include land use and zoning, population and community growth trends, locations of water and oil/gas wells, prevailing wind direction, transportation analysis, general geology, soils, groundwater and surface water information, and floodplain, wetlands, and endangered species data.

4.1 Impact on Surrounding Area 30 TAC 330.61(h)

A land use and zoning compatibility analysis was performed for the Northwest Transfer Station. The results of the analysis are summarized in the following sections.

4.1.1 Zoning

The Northwest Transfer Station site and area within one mile from the site boundary are located within the City of Houston in Harris County, Texas. The City of Houston does not have a zoning ordinance, therefore, there are no zoning restrictions for the facility.

4.1.2 Character of Surrounding Land Use

Existing uses of the site and the surrounding area are shown on Attachment II-5, Land Use Map. The map was prepared based on a field reconnaissance study (Tetra Tech, August 4, 2025) and a review of recent aerial photographs (Google Maps™ and GoogleEarth™) of the surrounding area. Most of the land within a one-mile radius is developed with a wide variety of commercial, industrial, and residential uses. Several subdivisions/home communities, schools, churches, and day care centers are located within a one-mile radius of the site. Commercial / Industrial represents the largest percentage of land use within a one-mile radius of the site. The second most common land use within a one-mile radius of the site is Agricultural / Open Space. The breakdown of overall land use within the one-mile radius is shown below.

Land Use Within One Mile of Site Boundary

Land Use	Area, acres	Percentage of Total Area, %
Northwest Transfer Station Site	7.58	0.4
Residential	207	10.3
Commercial / Industrial	1211	60.2
Agricultural or Open Space	245	12.2
Ponds and Lakes	20.4	1.0
Cemeteries	2.0	0.1
Government / Medical / Education	8	0.4
Historical Structures, Archeologically Significant Sites, Site Having Exceptional Aesthetic Quality	0	0
Multiple Use	155	7.7
Undeveloped and Other	155	7.7
Total	2,011	100

4.1.3 Population and Community Growth Trends

Population projections for Harris County, as tabulated by the Houston-Galveston Area Council (H-GAC) are summarized below. The data is from the 2024 Regional Growth Forecast.

H-GAC Regional Growth forecast: Counties

Year	Projected Population of Harris County
2025	4,936,392
2030	5,224,689
2035	5,486,474
2040	5,766,172
2045	5,971,013
2050	6,165,913

4.1.4 Growth Trends

The facility is located within the City of Houston. According to HGAC Regional Population Growth Trends, the household population growth trends for the areas shown are presented in the table below for the period 2020 to 2040.

Houston Growth Forecast

Houston Sector	Area, square miles	2030 Population Forecast	2040 Population Forecast	2050 Population Forecast
Concentric Area between I-610 & Beltway 8	435	1,797,378	1,974,969	2,184,837
City of Houston	671	2,598,553	2,910,271	3,194,450

H-GAC predicts that the population and employment growth will increase strongly in Houston in general.

H-GAC provides a web-based mapping tool to view forecast maps and retrieve information on population and employment forecast data called H-GAC Regional Socio-Economic GIS. A query within a five-mile radius of the facility yielded forecast data summarized in the table below.

Five Mile Growth Forecast

	2025	2050	Percent Increase
Population	362,773	545,676	50
Households	133,065	223,636	68
Jobs	323,574	576,823	78

The 2024 H-GAC Regional Growth Mapping Tool predicts that the population will increase in census tracts in all four quadrants around the transfer station property between 2025 and 2050, with the greatest growth in the northwest and southwest quadrants.

4.1.5 Proximity to Residential and Other Uses

In accordance with 30 TAC 330.61(h)(4), the following paragraphs describe certain specific uses of the properties within one mile of the site boundary. The locations of schools, licensed day care facilities, residences, churches, and commercial and industrial areas within a one-mile radius of the facility are shown on Attachment II-5 and are discussed in further detail below.

No known hospitals, archeological or historical sites, or sites with exceptional aesthetic qualities were identified within one mile of the facility boundary. The nearest hospital appears to be the Kindred Hospital Northwest about five miles to the northwest.

Ponds and Lakes

No lakes were observed with one mile of the site during our field survey nor when researching Google Maps or Google Earth. One man-made pond appears on Google Earth about 2,000 feet west of the site.

Residential

Our review of a Google Earth aerial photo, Google Maps, and our driving survey of the area in August 2025 indicates several residential areas within one mile of the site boundary. Based on HGAC's Regional Land Use Information System, 10.2 percent of the land within one mile of the site is residential. The nearest

residence is approximately 130 feet west of the site boundary. All residential areas are shown on the Land Use Map, Attachment II-5.

Churches

Our review of a Google Earth aerial photo, Google Maps, and our driving survey of the area in August 2025 indicates that there are 10 existing churches within one mile of the facility. The closest church is the Saint James Baptist Church at 5546 Teague Rd, Houston, TX 77041 about 2,695 feet south of the site boundary.

Licensed Day Care Facilities

Our review of a Google Earth aerial photo, Google Maps, and our driving survey of the area in August 2025 indicates that there are three licensed day care centers within one mile of the facility, with the nearest being the Precious Jewels Day Care Center located at 5531 Windfern Rd, Houston, TX 77041770, about 3,008 feet -south of the proposed transfer station.

Parks and Recreational Areas

A driving survey of the area in August 2025 and review of Google Earth and Google Maps indicates two parks or recreational areas located within one mile of the site boundary. Carverdale Park is about 2,750 feet south of the site and Independence Park is about 5,165 feet to the southwest.

Cemeteries

The one cemetery is the Fairbanks Cemetery at 5500 Stonington St, Houston, TX 77040 located about 1,380 feet east of the site.

Schools

Our review of a Google Earth aerial photo, Google Maps, and our driving survey of the area in August 2025 indicates that there are four schools within one mile of the property boundary. The nearest school is the Bane Elementary School located about 3,040 feet to the east as shown on the Land Use Map, Attachment II-5.

Commercial and Industrial

A driving survey of the area in 2025 confirmed that the majority of land use within one mile of the site is industrial. The HGAC Regional Land Use Information System states that 53.9 percent of the land is Industrial and 6.2 percent is commercial. The nearest commercial facility is 110 feet to the west and nearest industrial facility is 350 feet to the southeast. Commercial and industrial areas are shown on the Land Use Map, Attachment II-5.

Historic Site and Cultural Resources

In accordance with 30 TAC §330.61(0), a letter was sent to the Texas Historical Commission (THC) for concurrence that there are no historical, archeological, or sites with exceptional aesthetic quality on the facility property or in the surrounding area that would be affected by the proposed transfer station. The THC responded in an email on July 24, 2025 that" No historic properties are present or affected by the project as proposed." A copy of the THC email is included in Attachment II-7.

Miscellaneous Uses

The HGAC Regional Land Use Information System reports the following percentages of miscellaneous land uses:

- Multiple Use 7.7 percent
- Parks 1.9 percent
- Agricultural / Open Space 12.2 percent
- Undeveloped / Other 7.7 percent

4.1.6 Structures and Inhabitable Buildings 30TAC330.61(c)(3)

In accordance with 30TAC330.61(c)(3), the structures and inhabitable buildings within 500 feet of the registration boundary are shown on Attachment II-1.2.

4.1.7 Water and Oil/Gas Wells 30TAC330.61(h)(5) & 30TAC330.61(l)

The locations of groundwater wells and oil/gas wells within 500 feet of the site boundary were determined by our database searches using the Texas Water Development Board's Groundwater Data Viewer (https://www3.twdb.texas.gov/apps/WaterDataInteractive/GroundWaterDataViewer) and the Texas Railroad Commission's Public GIS Viewer (https://www.rrc.texas.gov/resource-center/research/gis-viewer/).

We found no known water well locations within 500 feet of the proposed transfer station registration boundary as shown on Attachment II-1.3 Figure 7.

There are no active, inactive, or plugged oil or natural gas wells on the proposed transfer station property nor within 500 feet of the proposed transfer station site boundary based on our search using the Texas Railroad Commission Public GIS Viewer (see Attachment II-1.3 Figure 8).

4.1.8 Prevailing Wind Direction 30TAC330.61(c)(1)

A wind rose is included on Attachment II-1.1 to illustrate the prevailing wind direction. This wind rose from Bush Intercontinental Airport indicates that the prevailing wind is from the south-southeast. The average wind speed is 5 to 10 miles per hour..

4.2 Transportation Analysis 30TAC330.61(i)

The site has operated as a solid waste transfer station for many years and the traffic volume for the proposed facility will be very similar to traffic generated by the prior facility. Entrances and exits for the new facility will be different so traffic volumes on surrounding streets will change somewhat.

The transportation analysis report is presented in Attachment II-8 includes data on the availability and adequacy of roads that the owner or operator will use to access the facility, data on the volume of vehicular traffic on access roads within one mile of the facility, both existing and during the expected life of the facility, and projected volume of traffic expected to be generated by the facility on the access roads within one mile of the facility. Documentation of coordination of all designs associated with site entrances with the agency with maintenance responsibility of the public roadways involved (City of Houston), and documentation of coordination with the Texas Department of Transportation (TxDOT) for traffic and location restrictions is provided in Attachment II-7.

4.2.1 Site Access

Public access to the facility will be provided by two entrances on Sommermeyer Street for waste collection trucks and transfer trailers. Collection vehicles will leave the facility via an exit on Sommermeyer Street. Transfer trailers will exit onto Teague Street. The owner or operator will obtain required permits from appropriate governmental agencies prior to construction of the new entrances and exits. Vehicular traffic to the facility will generally access the facility using Sommermeyer Street.

The proposed site entrance and exit widths are shown on the Site Plan in the Transportation Analysis Report (Attachment II-8). The driveways will intersect Sommermeyer Street at a 90-degree angle at a location with no sight restrictions or conflicts that impair the turning of the trucks or the view of drivers. Trucks that turn into the proposed site entrance driveway will have over 200 feet of queueing room before they reach the scale. The exit will be controlled by a stop sign.

Based on the proposed access routes and attached Transportation Study, the roadways that provide access to the facility are adequate in capacity and structure to continue to serve the needs of the transfer station and general public. Roads used for access to the transfer station are shown on Attachment II-3 and have either concrete or asphalt surfaces. There are no proposed public roadway improvements such as turning lanes or storage lanes associated with the site entrance.

Correspondence with TxDOT and the City of Houston is included in Attachment II-7.

4.2.2 Traffic Volumes

See the transportation analysis report by JKnesek & Associates, Inc. presented in Attachment II-8.

4.2.3 Traffic Generated by the Proposed Facility

See the transportation analysis report by JKnesek & Associates, Inc. presented in Attachment II-8.

4.2.2 Airport Locations

There are no public use airports within six miles of the site. The Memorial Hermann Hospital Heliport at Memorial City is 5.36 miles to the south. The nearest runway of a public-use airport is at the West Houston Airport, located approximately 11 miles west of the Northwest Transfer Station site. In accordance with 30 TAC 330.6l(i)(5), an airport impact evaluation is required only for landfill units and landfill mining operations, and thus not required for transfer stations.

4.2.3 TXDOT Correspondence

In accordance with 30TAC330.61(i)(4), the applicant contacted TxDOT for any traffic or location restrictions that may apply to the facility. Correspondence with TxDOT is included in Attachment II-7.

4.3 General Geology and Soils Statement 30TAC330.61(j)

In accordance with 30 TAC §330.6l(j), a general discussion of the geology and soils at the Northwest Transfer Station is included in the following sections.

4.3.1 Physiography and Topography

The site is in Houston, Harris County, Texas. The topography of Harris County slopes downward toward Galveston Bay, generally from northwest to southeast. The topography is relatively flat with elevation changes on the order of one foot per mile. The site is in the Coastal Prairie portion of the Gulf Coastal Plain physiographic province. The depositional plain of the Gulf Coast region is typically flat with primary relief provided by shallow valleys cut by streams. Attachment II-3 shows the general site topography based on United States Geological Survey (USGS) maps, dated 2025.

The major rivers in the area are the Brazos, Colorado, San Jacinto, and Trinity Rivers. Numerous constructed lakes and reservoirs are present in the area and influence the water table on a local scale. The Gulf of Mexico and Galveston Bay have a large effect on both the downdip ground-water system and the climate of the area. Winter is short and mild with a few days of freezing temperatures. Area rainfall averages are

approximately 49.77 inches per year (averaged between 1981 and 2010 for the Houston, Texas area (www.noaa.gov)).

The transfer station site drains via Cole Creek to the White Oak Bayou watershed, which drains an area of about 111 square miles throughout the northwest portions of Harris County as well as the City of Jersey Village and portions of the City of Houston. White Oak Bayou meanders southeast for 25 miles until it joins Buffalo Bayou in Downtown. The watershed includes three primary streams: White Oak Bayou, Little White Oak Bayou and Cole Creek.

The approximate existing ground elevation of the facility is 100 ft-msl.

4.3.2 Geologic Setting

The following discussion describes the geology beneath the facility.

The site is located within the Gulf Coast sedimentary basin, which consists of thousands of feet of sediments deposited through deltaic, alluvial, eolian dune, bay-estuarine, and barrier island-shoreline geologic processes. The thick mass of sediments dips and thickens toward the Gulf of Mexico and successively older geologic formations are exposed progressively further inland.

The Pleistocene age Beaumont Formation underlies the project site and all of Harris County and is characterized by clay, silt, sand, and minor amounts of siliceous gravel. Beaumont clays are typically red, brown, tan, and/or gray with irregularly distributed calcareous nodules and ferrous nodules, interstratified with sands. Thickness ranges from 25 to 400 feet. The Beaumont overlies the Lissie Formation and underlies Recent coastal marsh deposits in the eastern division of the Texas-Louisiana Gulf Coastal Plain.

4.3.3 On-Site Geology

HTS, Inc. Consultants conducted a geotechnical investigation of the site in September 2025 and their Geotechnical Evaluation report is presented as Attachment II-9. Eighteen borings indicate that the subsurface soils are predominantly clay (low and high plasticity) with intermittent sand layers in some places. Findings and recommendations in the report will be used to design foundations and retaining structures for the new transfer station. In the HTS report, soil stratigraphy is described in Section 5.1.

4.3.4 On-Site Soils

The USDA Web Soil Survey (https://websoilsurvey.nrcs.usda.gov/app/) Map shows that soils at the site are in the Addicks-Urban land complex, 0 to 1 percent slopes, poorly drained, loamy fluvio-marine deposits of early Pleistocene age.

4.4 Ground and Surface Water Statement 30TAC330.61(k)

In accordance with 30 TAC 330.61(k), a general discussion of the groundwater and surface water conditions at the proposed Transfer Station is included in the following sections.

4.4.1 Groundwater Conditions

The Chicot and Evangeline aquifers are the major hydrologic units used for groundwater supply in Harris County and grouped together are known as the Gulf Coast Aquifer. These aquifers are composed of gravel, sand, silt, and clay of Pliocene, Pleistocene, and Holocene ages. Units of the Chicot aquifer comprise the uppermost aquifer in the facility area.

In the geotechnical report, groundwater is described in Section 5.2.

4.4.2 Surface Water Features

The transfer station site drains via Cole Creek to the Hunting White Oak Bayou watershed, which drains an area of about 31 square miles in Harris County, Texas, and throughout the northwest portions of Harris County as well as the City of Jersey Village and portions of the City of Houston. White Oak Bayou meanders southeast for 25 miles until it joins Buffalo Bayou in Downtown. The watershed includes the three primary streams: White Oak Bayou, Little White Oak Bayou and Cole Creek primary stream Hunting Bayou (Harris County Flood Control District Unit No. H100-00-00), and several tributaries. The watershed includes about 54 miles of streams and is a highly developed watershed. A tributary to Hunting Bayou (Harris County Flood Control District Unit No. H113-00-00 to Hunting Bayou) is located adjacent to the facility, with Hunting Bayou about one-half mile south of the facility.

4.4.3 Texas Pollutant Discharge Elimination System

The owner/operator shall obtain the appropriate TPDES permit coverage when required. The transfer station will not perform vehicle or equipment maintenance, repairs, painting, fueling, lubrication, or cleaning. Therefore, the site is not subject to the requirements of the Texas Pollutant Discharge Elimination System (TPDES) multi-sector general permit, as required by 402 of the Clean Water Act. However, the owner/operator shall obtain a stormwater permit for "construction only" prior to construction of the facility.

4.5 Floodplains and Wetlands Statement 30TAC330.61(m)

4.5.1 Floodplains

The property proposed for the transfer station is outside the 100-year floodplain according to the FEMA National Flood Hazard Layer FIRMette which was derived directly from the authoritative NFHL web services provided by FEMA. The map was exported on July 31, 2025 and is included as Attachment II-11. The minimum ground surface elevation of the transfer station property after development will be 94 feet MSL, while the bottom of the detention pond will be at Elevation 90 feet. The tipping floor elevation will be 100 feet MSL.

4.5.2 Wetlands

Tetra Tech (TT) performed a wetlands study for the proposed transfer station property. The purpose of the study was to determine the approximate sizes and locations of wetlands and other areas that could potentially be classified as "Jurisdictional Waters of the United States" and to identify wetlands on the facility according to the Texas Water Code (TWC) §11.502. TT identified no jurisdictional wetlands on the transfer station property as stated in their report presented in Attachment II-10. A request for verification of the absence of wetlands was submitted to the U.S. Corps of Engineers Galveston Office (USACE) via Federal Express on November 8, 2025. Our letter plus FedEx labels and receipt are provided in Attachment II-7.

4.6 Protection of Endangered Species 30TAC330.61(n)

TT performed a threatened and endangered species assessment of the proposed transfer station property. The objective of the assessment was to evaluate the potential for the existence of species and/or their habitat that are considered protected under the Endangered Species Act of 1973 and subsequent amendments and listings in accordance with the requirements of 30 TAC §330.6l(n). TT concluded that there will be "no effect" on listed threatened or endangered species from development of the proposed transfer station property, as stated in their report presented in Attachment II-10. The applicant/owner acknowledges that the operation of this facility shall not result in the destruction or adverse modification of the critical habitat of endangered or threatened species per 30 TAC 330.551(a).

A request for a Wildlife Habitat Assessment was submitted to the Texas Parks and Wildlife Department, Wildlife Division (TPWD) via Federal Express on November 11, 2025. Our letter plus FedEx labels and receipt are provided in Attachment II-7.

4.7 Site-Specific Conditions Requiring Special Design Considerations

In accordance with 30 TAC §330.61(a), the requirements of 30 TAC §330.61(h) through (o) have been evaluated and discussed in the above Sections 4.1 through 4.6 of the existing conditions summary. There are no special design considerations or possible mitigation of conditions required at the facility.

4.8 Additional Standard Registration Conditions for Municipal Solid Waste Facilities

If at any time during the life of the facility the City of Houston (COH) becomes aware of any condition in the registration that necessitates a change to accommodate new technology or improved methods or that makes it impractical to keep the facility in compliance, the COH will submit to the Executive Director requested changes to the registration in accordance with 30 TAC 305.62 relating to Amendments or 30 TAC 305.70 relating to MSW registration modifications. The requested changes must be approved prior to their implementation.

The COH will obtain and submit certification by a Texas-licensed professional engineer that the facility has been constructed as designed in accordance with the issued registration and in general compliance with the regulations prior to initial operation. The COH will maintain that certification in the site operating record as described in Part IV, the Site Operating Plan.

After initial construction has been completed and prior to accepting solid waste, the COH will contact the TCEQ Austin office and the region office in writing to request a pre-opening inspection. The TCEQ will conduct a pre-opening inspection within 14 days of notification that all construction activities have been completed, accompanied by representatives of the COH and the engineer.

The facility will not accept solid waste or recyclable materials until the TCEQ has confirmed in writing that all applicable submissions required by the permit and 30 TAC Chapter 330 have been received and found to be acceptable, and that construction complies with the registration and approved Site Development Plan. If the TCEQ does not provide a written or verbal response within 14 days of completion of the pre-opening inspection, the facility will be considered approved for operation.

5.0 SUPPLEMENTARY TECHNICAL REPORT

In accordance with 30 TAC 305.45(a)(8), a supplementary technical report is required to be submitted with an application to provide a general description of the facilities and the systems used for or in connection with the collection, transportation, treatment, and disposal of waste, or used in connection with an injection activity. There is no injection activity proposed at the subject transfer station, therefore, the related portions of 30 TAC 305.45(a)(8) are not applicable. The volume and rate of acceptance, the types of allowable wastes, the physical properties and characteristics of the allowable wastes, and the general sequence of operation of the facility are discussed in Section 2.0 Waste Acceptance Plan.

6.0 LOCATION RESTRICTIONS

In accordance with Subchapter M of Chapter 330, the applicability of location restrictions is addressed in the following sections.

6.1 Easements and Buffer Zones 30TAC330.543

No solid waste unloading, storage, or processing activity will occur within any easements, buffer zones, or right-of-way that cross the facility. There will be no solid waste disposal at the facility. As applicable, all pipeline and utility easements will be clearly marked with posts that extend at least six feet above ground level, spaced at intervals no greater than 300 feet. The easements at the facility are shown on Attachment I-4.

A minimum separating distance of 50 feet will be maintained from the solid waste processing and storage areas to the facility registration boundary.

6.2 Airport Safety 30TAC330.545

This regulatory requirement is not applicable to this registration application.

6.3 Floodplains 30TAC330.547

The property proposed for the transfer station is outside the 100-year floodplain according to the FEMA National Flood Hazard Layer FIRMette which was derived directly from the authoritative NFHL web services provided by FEMA. The map was exported on July 31, 2025 and is included as Attachment II-11. The minimum ground surface elevation of the transfer station property after development will be 93 feet MSL, while the bottom of the detention pond will be at Elevation 90 feet (see Attachment III-1 Sheet C-500 Grading Plan for finished site elevations).

6.4 Groundwater 30TAC330.549

The proposed site is not located over the recharge zone of the Edwards Aquifer; therefore, this regulatory requirement is not applicable to this registration application. The Geotechnical Evaluation Report contains a section on groundwater (Attachment II-9, Section 5.2)

6.5 Endangered or Threatened Species 30TAC330.551

Tetra Tech conducted an endangered or threatened species study for this application. The report is presented in Attachment II-10.

6.6 Wetlands 30TAC330.553

Tetra Tech conducted a wetlands study for this application and concluded that there are no wetlands on site. The report is presented in Attachment II-10.

6.7 Fault Areas 30TAC330.555

This regulatory requirement is not applicable to this registration application. However, the Geotechnical Evaluation Report (Attachment II-9, Section 5.4) discusses surface faulting.

6.8 Seismic Impact Zones 30TAC330.557

This regulatory requirement is not applicable to this registration application. However, the Geotechnical Evaluation Report (Attachment II-9, Section 5.3) discusses seismic design considerations.

6.9 Unstable Areas 30TAC330.559

This regulatory requirement is not applicable to this registration application. However, the Geotechnical Evaluation Report (Attachment II-9) discusses subsurface conditions and presents engineering analyses and design considerations. The applicant/owner considered the following factors, at a minimum, when determining whether the site contained any unstable areas:

(1) on-site or local soil conditions that may result in significant differential settlement,
(2) on-site or local geologic or geomorphologic features,
(3) on-site or local human-made features or events (both surface and subsurface).

7.0 ATTACHMENTS TO PART I

I-1 Figure 1 General Location Map

I-2 Figure 2 TXDOT County Map

I-3 Figure 3 Land Ownership Map and List

I-4 Property Owner Information

Preliminary Plat

Metes and Bounds Description

Figure 4 Boundary Survey Drawing

I-5 Core Data Form

8.0 ATTACHMENTS TO PART II

II-1.1 Figure 5 General Location Map (includes Wind Rose)

II-1.2 Figure 6 Buildings Within 500 feet of Site Boundary

II-1.3 Figure 7 Water Wells

Figure 8 Oil & Gas Wells

II-2 Figure 9 Facility Layout Map

Figure 9A Sheet G-220 Construction Phasing Plan

II-3 Figure 10 General Topographic Map

II-4 Figure 11 Aerial Photograph

II-5 Figure 12 Land Use Map

II-6 Zoning Map (Intentionally Blank)

II-7 Agency Letters and Responses

II-8 Transportation Study

II-9 Geotechnical Evaluation

II-10 Federally and State Listed Species Habitat Assessment and Wetland Determination Report

II-11 Figure 13 Floodplain Map

Attachment I–4 Property Owner Information

STATE OF TEXAS

COUNTY OF HARRIS

THE CITY OF HOUSTON ACTING BY AND THROUGH JOHN WHITMIRE, THE MAYOR AND AN OFFICER OF THE CITY OF HOUSTON, OWNER OF THE 7.581 ACRE TRACT DESCRIBED ON THIS PLAT OF NORTHWEST TRANSFER STATION DOES HEREBY MAKE AND ESTABLISH THIS SUBDIVISION AND DEVELOPMENT PLAN OF THE PROPERTY ACCORDING TO ALL LINES, DEDICATIONS, RESTRICTIONS AND NOTATIONS ON THIS PLAT AND HEREBY DEDICATES TO THE USE OF THE PUBLIC FOREVER, ALL STREETS (EXCEPT THOSE STREETS DESIGNATED AS PRIVATE STREETS, OR PERMANENT ACCESS EASEMENTS), ALLEYS, PARKS, WATER COURSES, DRAINS, EASEMENTS AND PUBLIC PLACES SHOWN THEREON FOR THE PURPOSES AND CONSIDERATIONS THEREIN EXPRESSED; AND DO HEREBY BIND OURSELVES, OUR HEIRS, SUCCESSORS AND ASSIGNS TO WARRANT AND FOREVER DEFEND THE TITLE ON THE LAND SO DEDICATED.

FURTHER, OWNER HAS DEDICATED AND BY THESE PRESENTS DOES DEDICATE TO THE USE OF THE PUBLIC FOR PUBLIC UTILITY PURPOSES FOREVER UNOBSTRUCTED AERIAL EASEMENTS. THE AERIAL EASEMENTS SHALL EXTEND HORIZONTALLY AN ADDITIONAL ELEVEN FEET, SIX INCHES (11'6") FOR TEN FEET (10' 0") PERIMETER GROUND EASEMENTS OR SEVEN FEET, SIX INCHES (7' 6") FOR FOURTEEN FEET (14' 0") PERIMETER GROUND EASEMENTS OR FIVE FEET, SIX INCHES (5' 6") FOR SIXTEEN FEET (16' 0") PERIMETER GROUND EASEMENTS, FROM A PLANE SIXTEEN FEET (16' 0") ABOVE GROUND LEVEL UPWARD, LOCATED ADJACENT TO AND ADJOINING SAID PUBLIC UTILITY EASEMENTS THAT ARE DESIGNED WITH AERIAL EASEMENTS (U.E. AND A.E.) AS INDICATED AND DEPICTED, HEREON, WHEREBY THE AERIAL EASEMENT TOTALS TWENTY ONE FEET, SIX INCHES (21' 6") IN WIDTH.

FURTHER, OWNER HAS DEDICATED AND BY THESE PRESENTS DOES DEDICATE TO THE USE OF THE PUBLIC FOR PUBLIC UTILITY PURPOSE FOREVER UNOBSTRUCTED AERIAL EASEMENTS. THE AERIAL EASEMENTS SHALL EXTEND HORIZONTALLY AN ADDITIONAL TEN FEET (10' 0") FOR TEN FEET (10' 0") BACK-TO-BACK GROUND EASEMENTS, OR EIGHT FEET (8' 0") FOR FOURTEEN FEET (14' 0") BACK-TO-BACK GROUND EASEMENTS OR SEVEN FEET (7' 0") FOR SIXTEEN FEET (16' 0") BACK-TO-BACK GROUND EASEMENTS, FROM A PLANE SIXTEEN FEET (16' 0") ABOVE GROUND LEVEL UPWARD, LOCATED ADJACENT TO BOTH SIDES AND ADJOINING SAID PUBLIC UTILITY EASEMENTS THAT ARE DESIGNED WITH AERIAL EASEMENT (U.E. AND A.E.) AS INDICATED AND DEPICTED HEREON, WHEREBY THE AERIAL EASEMENT TOTALS THIRTY FEET (30' 0") IN WIDTH.

FURTHER, OWNER DOES HEREBY COVENANT AND AGREE THAT ALL OF THE PROPERTY WITHIN THE BOUNDARIES OF THIS PLAT IS HEREBY RESTRICTED TO PREVENT THE DRAINAGE OF ANY SEPTIC TANKS INTO ANY PUBLIC OR PRIVATE STREET, PERMANENT ACCESS EASEMENT, ROAD OR ALLEY OR ANY DRAINAGE DITCH, EITHER DIRECTLY OR INDIRECTLY.

FURTHER, OWNER DOES HEREBY DEDICATE TO THE PUBLIC A STRIP OF LAND FIFTEEN (15' 0") FEET WIDE ON EACH SIDE OF THE CENTER LINE OF ANY AND ALL BAYOUS, CREEKS, GULLIES, RAVINES, DRAWS, SLOUGHS, OR OTHER NATURAL DRAINAGE COURSES LOCATED IN SAID PLAT, AS EASEMENTS FOR DRAINAGE PURPOSES, GIVING THE CITY OF HOUSTON, HARRIS COUNTY, OR ANY OTHER GOVERNMENTAL AGENCY, THE RIGHT TO ENTER UPON SAID EASEMENT AT ANY TIMES FOR THE PURPOSE OF CONSTRUCTION AND MAINTENANCE OF DRAINAGE FACILITIES AND STRUCTURES.

FURTHER, OWNER DOES HEREBY COVENANT AND AGREE THAT ALL OF THE PROPERTY WITHIN THE BOUNDARIES OF THIS PLAT AND ADJACENT TO ANY DRAINAGE EASEMENT, DITCH, GULLY, CREEK OR NATURAL DRAINAGE WAY IS HEREBY RESTRICTED TO KEEP DRAINAGE WAYS AND EASEMENTS LOCATED WITHIN THE PLAT CLEAR OF FENCES, BUILDINGS, PLANTING AND OTHER OBSTRUCTIONS TO THE OPERATIONS AND MAINTENANCE OF THE DRAINAGE FACILITY AND THAT ABUTTING PROPERTY SHALL NOT BE PERMITTED TO DRAIN DIRECTLY INTO THIS EASEMENT EXCEPT BY MEANS OF AN APPROVED DRAINAGE STRUCTURE.

FURTHER, OWNER HEREBY CERTIFIES THAT THIS REPLAT DOES NOT ATTEMPT TO ALTER, AMEND, OR REMOVE AN COVENANTS OR RESTRICTIONS. AND FURTHER CERTIFIES THAT NO PORTION OF THE PRECEDING PLAT WAS LIMITED BY DEED RESTRICTION TO RESIDENTIAL USE FOR NOT MORE TWO (2) RESIDENTIAL UNITS PER LOT.

IN TESTIMONY, WHEREOF, THE CITY OF HOUSTON HAS CAUSED THESE PRESENTS TO BE SIGNED BY JOHN WHITMIRE, IT'S MAYOR THIS _____ DAY OF_____ 2025.

THE CITY OF HOUSTON, TEXAS

BY: _____
NAME: JOHN WHITMIRE, MAYOR

STATE OF TEXAS

COUNTY OF HARRIS

BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED JOHN WHITMIRE, MAYOR OF THE CITY OF HOUSTON, KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATIONS THEREIN EXPRESSED.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, THIS _____ DAY OF _____, 2025.

_____
NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS

NAME: _____

MY COMMISSION EXPIRES: _____

I, TENESHIA HUDSPETH, COUNTY CLERK OF HARRIS COUNTY, DO HEREBY CERTIFY THAT THE WITHIN INSTRUMENT WITH ITS CERTIFICATE OF AUTHENTICATION WAS FILED FOR REGISTRATION IN MY OFFICE ON_____, 2025, AT_____O'CLOCK ___M., AND DULY RECORDED ON _____, 2025, AT _____O'CLOCK ___M., AND AT FILM CODE NO._____ OF THE MAP RECORDS OF HARRIS COUNTY FOR SAID COUNTY.

WITNESS MY HAND AND SEAL OF OFFICE, AT HOUSTON, THE DAY AND DATE LAST ABOVE WRITTEN.

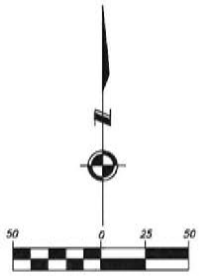
_____
TENESHIA HUDSPETH
COUNTY CLERK
OF HARRIS COUNTY, TEXAS

BY_____
DEPUTY





VICINITY MAP KEYMAP: 410 W
N.T.S.



SCALE: 1" = 50'

NOTES:

1. ALL BEARINGS AND DISTANCES ARE BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE, NAD83 (CORS96). ALL DISTANCES ARE IN SURFACE.

2. THE COORDINATES SHOWN HEREON ARE TEXAS SOUTH CENTRAL ZONE NO. 4204 STATE PLANE GRID COORDINATES (NAD83) AND MAY BE BROUGHT TO SURFACE BY DIVIDING BY THE COMBINED SCALE FACTOR 0.999870017.

3. UNLESS OTHERWISE INDICATED, THE BUILDING LINES, WHETHER ONE OR MORE, SHOWN ON THIS SUBDIVISION PLAT ARE ESTABLISHED TO EVIDENCE COMPLIANCE WITH THE APPLICABLE PROVISIONS OF CHAPTER 42, CODE OF ORDINANCES, CITY OF HOUSTON, TEXAS, IN EFFECT AT THE TIME THIS PLAT WAS APPROVED, WHICH MAY BE AMENDED FROM TIME TO TIME.

4. IF THIS PLAT IS PROPOSED TO BE MULTI-FAMILY RESIDENTIAL, IT IS SUBJECT TO THE PARKS AND OPEN SPACE REQUIREMENTS OF 42-251. A FEE PER UNIT WILL BE ASSESSED AT THE TIME OF PERMITTING AT THE THEN-CURRENT FEE RATE. IF A PRIVATE PARK IS TO BE PROPOSED OR PUBLIC PARK LAND IS TO BE DEDICATED, PARK LAND RESERVES OR LAND DEDICATION MUST BE SHOWN ON THE FACE OF PLAT AT THIS TIME.

5. ABSENT WRITTEN AUTHORIZATION BY THE AFFECTED UTILITIES, ALL UTILITY AND AERIAL EASEMENTS MUST BE KEPT UNOBSTRUCTED FROM ANY NON-UTILITY IMPROVEMENTS OR OBSTRUCTIONS BY THE PROPERTY OWNER. ANY UNAUTHORIZED IMPROVEMENTS OR OBSTRUCTIONS MAY BE REMOVED BY ANY PUBLIC UTILITY AT THE PROPERTY OWNER'S EXPENSE. WHILE WOODEN POSTS AND PANELED WOODEN FENCES ALONG THE PERIMETER AND BACK TO BACK EASEMENTS AND ALONGSIDE REAR LOTS LINES ARE PERMITTED, THEY TOO MAY BE REMOVED BY PUBLIC UTILITIES AT THE PROPERTY OWNER'S EXPENSE SHOULD THEY BE AN OBSTRUCTION. PUBLIC UTILITIES MAY PUT SAID WOODEN POSTS AND PANELED WOODEN FENCES BACK UP, BUT GENERALLY WILL NOT REPLACE WITH NEW FENCING.

6. THE BUILDING LINE REQUIREMENTS ESTABLISHED BY CHAPTER 42 ARE MINIMUM STANDARDS. WHERE DEED RESTRICTIONS PROVIDE FOR A GREATER BUILDING SETBACK, THE DEED RESTRICTIONS SHALL CONTROL OVER THE PROVISIONS OF THIS DIVISION.

7. UNLESS OTHERWISE INDICATED, THE BUILDING LINE (B.L.), WHETHER ONE OR MORE, SHOWN ON THIS SUBDIVISION PLAT ARE ESTABLISHED TO EVIDENCE COMPLIANCE WITH THE APPLICABLE PROVISIONS OF CHAPTER 42, CODE OF ORDINANCES, CITY OF HOUSTON, TEXAS, IN EFFECT AT THE TIME THIS PLAT WAS APPROVED, WHICH MAY BE AMENDED FROM TIME TO TIME.

(OR REGISTERED) UNDER THE ROFESSION OF SURVEYING AND TRUE AND ACCURATE; WAS PROPERTY MADE UNDER MY OWN ALL BOUNDARY CORNERS, POINTS OF REFERENCE HAVE A PERMANENT NATURE) PIPES SS THAN FIVE EIGHTHS (5/8)) FEET; AND THAT THE PLAT XAS COORDINATE SYSTEM OF

NORTHWEST TRANSFER STATION

**A SUBDIVISION OF 7.581 ACRES (330,210 SQ. FT.)
BEING A REPLAT OF LOTS 3 & 4 OF
FAIRBANKS SUBDIVISION, A PLAT RECORDED
UNDER VOL. 90, PG. 440, H.C.D.R.
SITUATED IN THE JOHN RIDEN SURVEY,
ABSTRACT NO. 669
CITY OF HOUSTON, TEXAS**

REASON FOR REPLAT:
TO CREATE ONE UNRESTRICTED RESERVE

1 BLOCK 1 RESERVE

KUO JOB NO. 01085 OCTOBER, 2025

OWNER:
THE CITY OF HOUSTON

ENGINEER/SURVEYOR:

KUO & associates, LLC.
Consulting Engineers & Surveyors
10300 Westoffice Dr., Suite 800
Houston, Texas 77042
Tel: 713-975-8769, Fax: 713-975-0920
www.kuoassociates.com
TBPELS Engineering Firm Reg. No. F-4578
TBPELS Surveying Firm Reg. No. 10075600

Metes and Bounds Description

Being a 7.581 acre (330,2120 square feet) tract of land situated in the Alexander Area Survey, Abstract No. 99, Harris County, Texas, and being out of and a part of Lots 3&4 of Fairbanks Subdivision, a Subdivision Plat recorded under Volume (Vol.) 90, Page (Pg.) 440, Harris County Deed Records (H.C.D.R.), and further being out of and a part of a called 8.175 acres tract conveyed from R. T. McDow and L. Vernon Miller to City of Houston described in a Deed dated September 13, 1966 recorded under Harris County Clerk's File Number (H.C.C.F. No.) C376650 and Vol. 6510, Pg. 94, H.C.D.R. of the Official Public Records of Real Property Harris County (O.P.R.O.R.P.H.C.); and out of and a part of a Residue of a called 19.9831 acres tract conveyed from Vernon L. Miller to City of Houston described in a Deed dated September 13, 1966 recorded under H.C.C.F. No. C376651 and Vol. 6510, Pg. 98, H.C.D.R. of the O.P.R.O.R.P.H.C., Texas. Said 7.581 acre of land being more particularly described by metes and bounds as follows:

BEGINNING at a 3/8-inch iron rod having the Texas State Plane Coordinates of N: 13,874,876.43 & E: 3,065,851.41 found on the common west Right-of-Way (R.O.W.) line of Windfern Lane (60' R.O.W.) recorded under Vol. 90, Pg. 440, H.C.D.R. & H.C.C.F. No. J040527 and the east line of said Lot 3 and said Residue of a called 19.9831 acres tract for the southeast corner of the herein described parcel;

THENCE, South 87° 58' 09" West, departing said common line, over and across said Lot 3 and said Residue of a 19.9831 acres tract for a distance of 795.20 feet to a 5/8-inch iron rod with "KUO" cap set on the common east R.O.W. line of Teague Road (60' R.O.W.) recorded under Vol. 34, Pg. 64, Harris County Map Records (H.C.M.R.) and the west line of said Lot 3 and said Residue of a called 19.9831 acres tract for the southwest corner of the herein described parcel;

THENCE, North 02° 01' 51" West, along the common east R.O.W. line of said Teague Road and the west line of said Lot 3 and said Residue of a called 19.9831 acres tract passing at a distance of 151.10 feet the common northwest corner of said Lot 3 and said Residue of a called 19.9831 acres tract and the southwest corner of aforesaid Lot 4 and aforesaid Residue of a 8.175 acres tract, and continuing along the common east R.O.W. line of said Teague Road and the west line of said Lot 4 and said Residue of a 8.175 acres tract for a total distance of 392.47 feet to a 5/8-inch iron rod with "KUO" cap set for the northwest corner of the herein described parcel;

THENCE, North 87° 57' 45" East, departing said common line, over and across said Lot 4 and said Residue of a 8.175 acres tract for a distance of 348.69 feet to a 5/8-inch iron rod with "KUO" cap set for an angle point of the herein described parcel;

THENCE, North 06° 37' 44" East, continuing over and across said Lot 4 and said Residue of a 8.175 acres tract for a distance of 46.27 feet to a 5/8-inch iron rod with "KUO" cap set for an angle point of the herein described parcel;

THENCE, North 35° 55' 42" East, continuing over and across said Lot 4 and said Residue of a 8.175 acres tract for a distance of 152.83 feet to a 5/8-inch iron rod with "KUO" cap set on the common southwesterly R.O.W. line of Sommermeyer Road (60' R.O.W.) recorded under Vol. 90, Pg. 440, H.C.D.R. and the northeasterly line of said Lot 4 and said Residue of a 8.175 acres tract for the northwest corner of the herein described parcel;

THENCE, South 52° 23' 49" East, along said common line for a distance of 448.39 feet to a 5/8-inch iron rod with "KUO" cap set for the intersection of the southwesterly R.O.W. line of said Sommermeyer Road and the west R.O.W. line of said Windfern Lane, same also being the northeast corner of said Lot 4, said Residue of a 8.175 acres tract and the herein described parcel;

THENCE, South 02° 04' 33" East, along the common west R.O.W. line of said Windfern Lane and the east line of said Lot 4 and said Residue of a 8.175 acres tract passing at a distance of 111.73 feet the common northeast corner of aforesaid Lot 3 and said Residue of a 19.9831 acres tract and the southwest corner of said Lot 4 and said Residue of a 8.175 acres tract, and continuing along the common west R.O.W. line of said Windfern Lane and the east line of said Lot 3 and said Residue of a 19.9831 acres tract for a total distance of 272.74 feet to the **POINT OF BEGINNING** and containing 7.581 acre (330,2120 square feet) of land, more or less.

All bearings and distances are based on Texas State Plane Coordinate System, South Central Zone, NAD 83 (CORS96). All distances are in surface.

The coordinates shown hereon are Texas South Central Zone No. 4204 State Plane Grid Coordinates (NAD83) and may be brought to surface by dividing by the combined scale factor 0.999870017.

A survey plat has been prepared in association with this field note description.

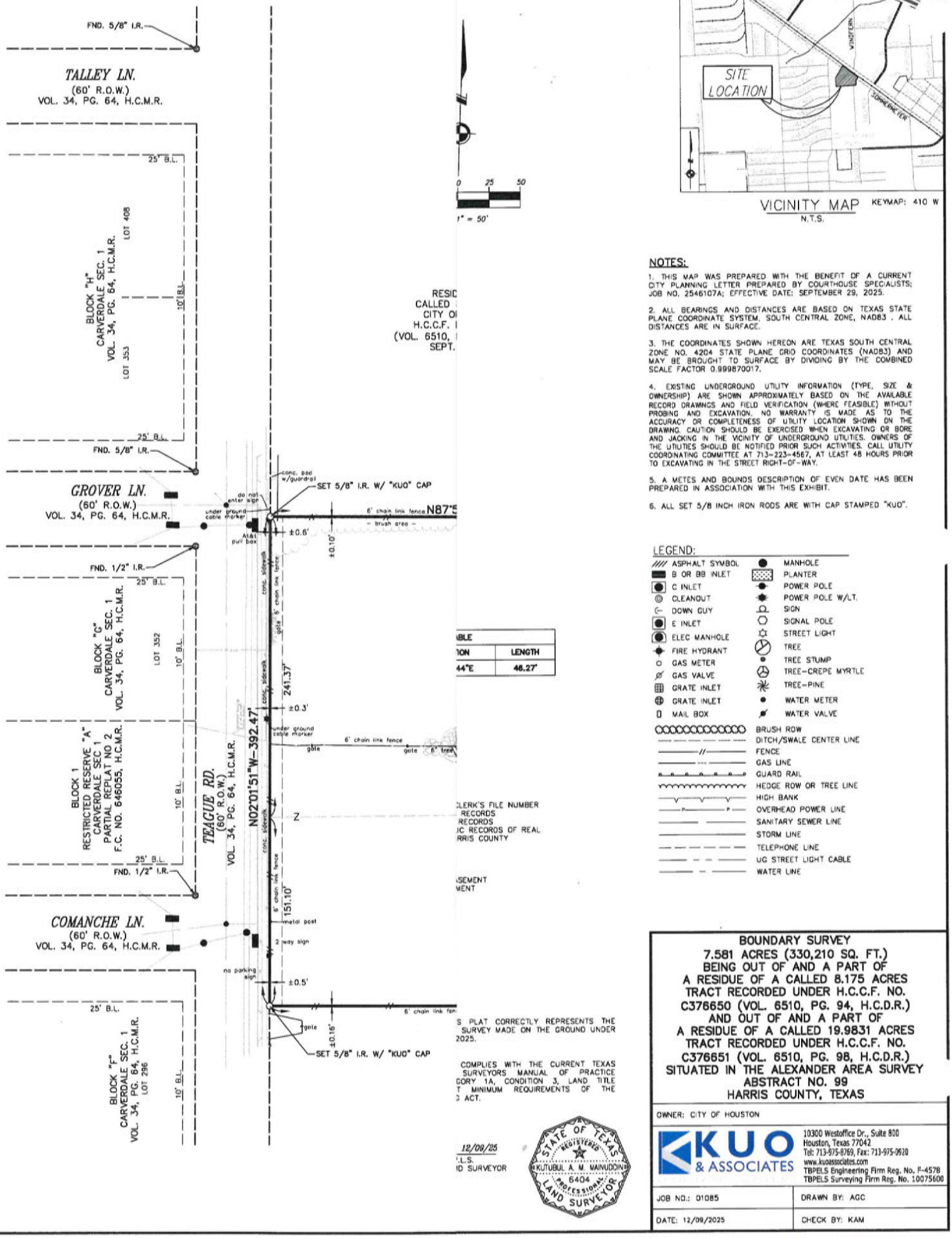
Compiled By:

Kutubul A. M. Mainuddin., RPLS
Registered Professional Land Surveyor
Texas Reg. No. 6404



Kuo & Associates, Inc.
10300 Westoffice Drive, Suite 800
Houston, TX 77042
Ph.: (713) 975-8769
TBPLS Firm Registration No. 10075600

Date: December 9, 2025.



BOUNDARY SURVEY
7.581 ACRES (330,210 SQ. FT.)
BEING OUT OF AND A PART OF
A RESIDUE OF A CALLED 8.175 ACRES
TRACT RECORDED UNDER H.C.C.F. NO.
C376650 (VOL. 6510, PG. 94, H.C.D.R.)
AND OUT OF AND A PART OF
A RESIDUE OF A CALLED 19.9831 ACRES
TRACT RECORDED UNDER H.C.C.F. NO.
C376651 (VOL. 6510, PG. 98, H.C.D.R.)
SITUATED IN THE ALEXANDER AREA SURVEY
ABSTRACT NO. 99
HARRIS COUNTY, TEXAS

OWNER: CITY OF HOUSTON

KUO & ASSOCIATES
10300 Westoffice Dr., Suite 800
Houston, Texas 77042
Tel: 713-975-8769, Fax: 713-975-0920
www.kuoassociates.com
TBPELS Engineering Firm Reg. No. F-4578
TBPELS Surveying Firm Reg. No. 10075600

JOB NO.: 01085	DRAWN BY: AGC
DATE: 12/09/2025	CHECK BY: KAM

Dec 09 2025 8:36AM aaron
S:_CORP\CIVIL\CTS\01085 DWF Townsite Includes Xref's\ - Topo-01085.dwg
4-0 SURVEY-DESIGN Production\01_SURVEY\4-01-08 Dwgs Working\WORKING\BNDY-01085.dwg



N

0 250 500

SCALE:1"= 500'

LEGEND

- APPROXIMATE TRANSFER STATION PROPERTY BOUNDARY
- 500 FEET FROM TRANSFER STATION SITE BOUNDARY

REFERENCE: GOOGLE EARTH AERIAL IMAGE, NOVEMBER 2023

STATE OF TEXAS
JAMES M. NORSTROM
57016
PROFESSIONAL ENGINEER
02/25/26
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

SITE ADDRESS:
14421 SOMMERMEYER ST
HOUSTON TX, 77041
LAT 29°51'23.10"N
LON -95°32'18.46"W

TETRA TECH
1500 CityWest Blvd, Suite 1000
Houston, TX 77042
TEL 936.202.0746

AGENCY NAME

DESIGNED BY: -
DRAWN BY: -
CHECKED BY: -
APPROVED BY: -
DATE: 10-2025
PROJ. NO.: 2025-0058

CITY OF HOUSTON NORTHWEST TRANSFER STATION

BUILDINGS WITHIN
500 FEET OF SITE BOUNDARY

FIGURE 6

J:\HOUSTON Office Projects\CLIENTS & Projects\MUNICIPAL Clients\TX\HOUSTON\2024 NW T-Station\APPLICATION\CAD\Shaeffler Files\Fig-00_Bldgs Within 500ft



N

0 250 500

SCALE:1"= 500'

LEGEND

- APPROXIMATE TRANSFER STATION PROPERTY BOUNDARY
- 500 FEET FROM TRANSFER STATION SITE BOUNDARY
- PLUGGING REPORTS
- WELL REPORTS

NOTE:

1. THE LOCATIONS OF GROUNDWATER WELLS WERE DETERMINED BY DATABASE SEARCHES CONDUCTED BY TETRA TECH USING THE TEXAS WATER DEVELOPMENT BOARD'S GROUNDWATER DATA VIEWER. (https://www3.twdb.texas.gov/apps/WaterDataInteractive/GroundWaterDataViewer)
2. THERE ARE NO ACTIVE, INACTIVE, OR PLUGGED WATER WELLS ON THE PROPOSED TRANSFER STATION PROPERTY NOR WITHIN 500 FEET OF THE PROPOSED TRANSFER STATION SITE BOUNDARY BASED ON TETRA TECH'S SEARCH USING TEXAS WATER DEVELOPMENT BOARD'S GROUNDWATER DATA VIEWER.
3. NO GROUNDWATER MONITORING WELLS ARE PLANNED FOR THE TRANSFER STATION PROPERTY.

STATE OF TEXAS
JAMES M. NORSTROM
57016
PROFESSIONAL ENGINEER
02/25/26
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

SITE ADDRESS:
14421 SOMMERMEYER ST
HOUSTON TX, 77041
LAT 29°51'23.10"N
LON -95°32'18.46"W

REFERENCE: GOOGLE EARTH AERIAL IMAGE, NOVEMBER 2023

TETRA TECH
1500 CityWest Blvd, Suite 1000
Houston, TX 77042
TEL 936.202.0746

AGENCY NAME

DESIGNED BY: -
DRAWN BY: -
CHECKED BY: -
APPROVED BY: -
DATE: 10-2025
PROJ. NO.: 2025-0058

CITY OF HOUSTON NORTHWEST TRANSFER STATION

WATER WELLS WITHIN 500 FEET OF SITE BOUNDARY

FIGURE 7

J:\HOUSTON Office Projects\CLIENTS & Projects\MUNICIPAL Clients\TX\HOUSTON\2024 NW T-Station\APPLICATION\CAD\Sheetfiles\Fig-07_Water Wells Within 500ft



REFERENCE: GOOGLE EARTH AERIAL IMAGE, NOVEMBER 2023

N

0 250 500

SCALE:1"= 500'

LEGEND

- APPROXIMATE TRANSFER STATION PROPERTY BOUNDARY
- 500 FEET FROM TRANSFER STATION SITE BOUNDARY
- PLUGGING REPORTS
- WELL REPORTS

NOTES:

1. THE LOCATIONS OF OIL AND GAS WELLS WERE DETERMINED BY DATABASE SEARCHES BY TETRA TECH USING THE TEXAS RAILROAD COMMISSION'S PUBLIC GIS VIEWER (https://www.rrc.texas.gov/resource-center/research/gis-viewer/)
2. THERE ARE NO ACTIVE, INACTIVE, OR PLUGGED OIL OR NATURAL GAS WELLS ON THE PROPOSED TRANSFER STATION PROPERTY NOR WITHIN 500 FEET OF THE PROPOSED TRANSFER STATION SITE BOUNDARY BASED ON TETRA TECH'S SEARCH USING THE TEXAS RAILROAD COMMISSION PUBLIC GIS VIEWER.

STATE OF TEXAS
JAMES M. NORSTROM
57016
PROFESSIONAL ENGINEER
LICENSED
02/25/26
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

SITE ADDRESS:
14421 SOMMERMEYER ST
HOUSTON TX, 77041
LAT 29°51'23.10"N
LON -95°32'18.46"W

TETRA TECH
1500 CityWest Blvd, Suite 1000
Houston, TX 77042
TEL 936.202.0746

AGENCY NAME

DESIGNED BY: -
DRAWN BY: -
CHECKED BY: -
APPROVED BY: -
DATE: 10-2025
PROJ. NO.: 2025-0058

CITY OF HOUSTON NORTHWEST TRANSFER STATION

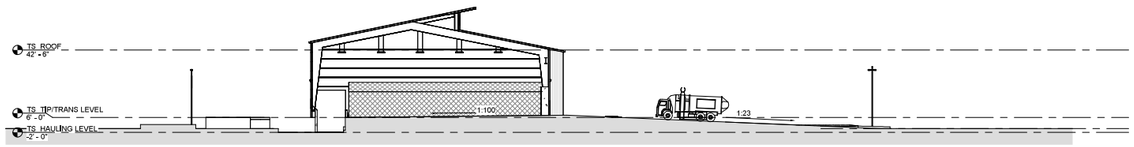
OIL AND GAS WELLS WITHIN 500 FEET OF SITE BOUNDARY

FIGURE 8

J:\HOUSTON Office Projects\CLIENTS & Projects\MUNICIPAL Clients\TX\HOUSTON\2024 NW T-Station\APPLICATION\CAD\SheetFiles\Fig-08_Oil-Gas Wells Within 500ft

ATTACHMENT II-1.3

Original December 2025, Revised March 2026



2 SITE SECTION
SCALE: 1" = 30'-0"

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
P05	PTD, STRIPPING AS SHOWN.
S01	PREFABRICATED DEPOSITORY CHECK-IN BUILDING
S02	FUELING
S03	RECYCLING BINS
S04	CARDBOARD COMPACTORS
S05	EV CHARGING
S25	NEW GENERATOR. REFER TO MEP DRAWINGS

SITE PLAN GENERAL NOTES

1. SITE PLAN INDICATED GENERAL DESIGN INTENT OF ARCHITECTURAL SITE WORK. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR SUB-SURFACE WORK AND LANDSCAPE DRAWINGS FOR OTHER WORK NOT SPECIFIED HEREIN.

2. REFER TO SHEETS G-004 & G-005 FOR TYPICAL ACCESSIBILITY STANDARDS FOR ALL DESIGN STANDARDS AND REQUIREMENTS RELATED TO ACCESSIBILITY.

3. COMPLY WITH THE REQUIREMENTS OF THE TEXAS ACCESSIBILITY STANDARDS FOR ALL DESIGN STANDARDS AND REQUIREMENTS RELATED TO ACCESSIBILITY.

4. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST POSSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE ENTRANCE.

5. ACCESSIBLE PARKING SPACES SHALL BE AT LEAST 96" WIDE AND LEVEL WITH SLOPES NOT EXCEEDING 2% IN ALL DIRECTIONS.

6. ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED BY A SIGN SHOWING THE "SYMBOL OF ACCESSIBILITY", AN ADDITIONAL "VAN ACCESSIBLE" SIGN SHALL BE MOUNTED BELOW FOR ALL VAN ACCESSIBLE SPACES.

7. SLOPES OF CURB RAMPS ALONG AN ACCESSIBLE PATH SHALL NOT EXCEED 1:20. TRANSITIONS FROM RAMPS TO TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE MIN. WIDTH OF A CURB RAMP SHALL BE 36" EXCLUSIVE OF FLARED SIDES. RAMP SURFACES SHALL BE SLIP RESISTANT.

8. CHANGES IN LEVEL UP TO 1/4" MAY BE VERTICAL WITHOUT EDGE TREATMENT. 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.

9. ALL SITE SIGNAGE SHALL COMPLY WITH ALL APPLICABLE CODES, INCLUDING ACCESSIBILITY.

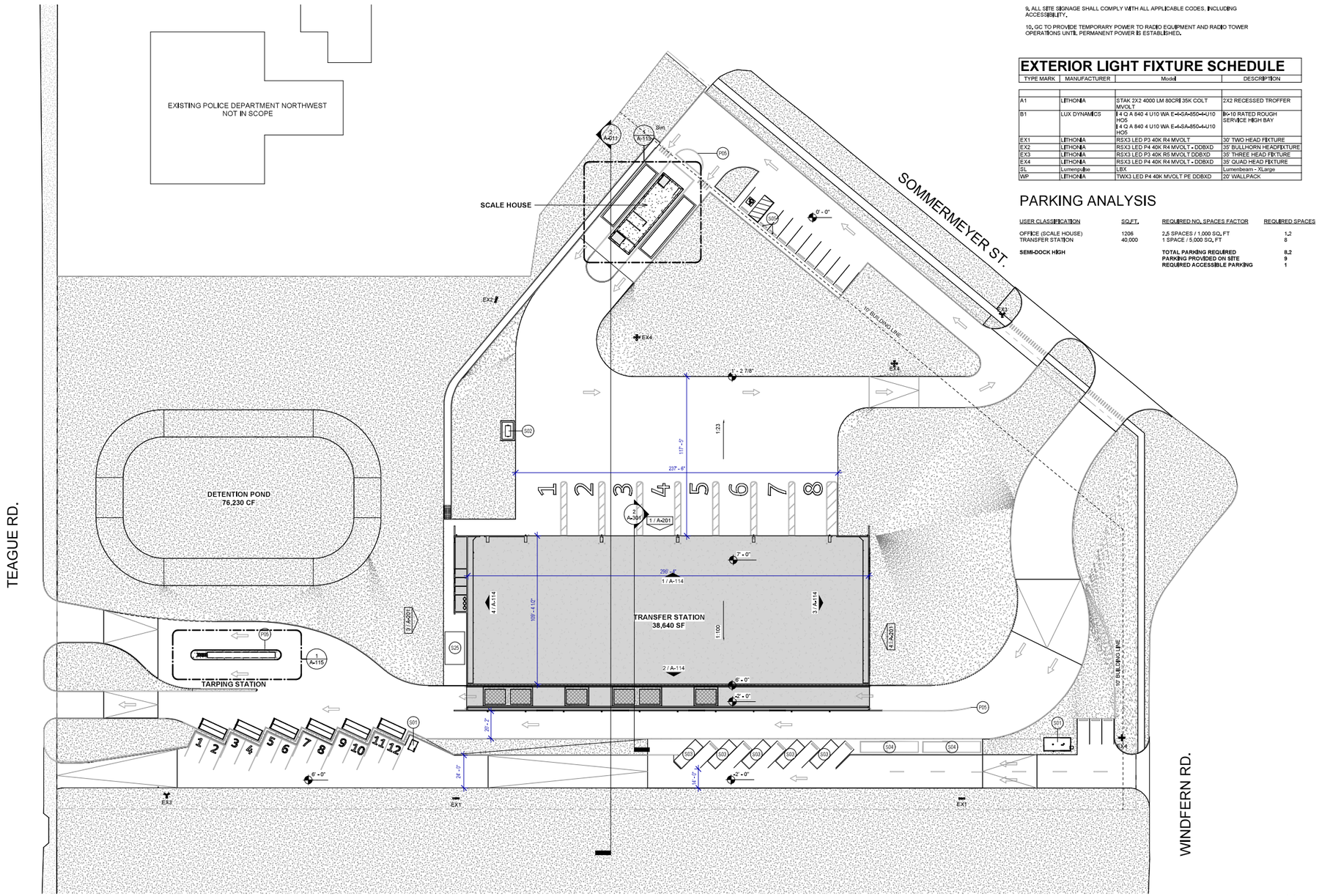
10. GC TO PROVIDE TEMPORARY POWER TO RADIO EQUIPMENT AND RADIO TOWER OPERATIONS UNTIL PERMANENT POWER IS ESTABLISHED.

EXTERIOR LIGHT FIXTURE SCHEDULE

TYPE MARK	MANUFACTURER	Model	DESCRIPTION
A1	LITHONIA	STAK 2X2 4000 LM 80CRI 35K COLT MVOLT	2X2 RECESSED TROFFER
B1	LUX DYNAMICS	4 Q A 840 4 U10 WA E-HSA-850-4-U10 HOS 4 Q A 840 4 U10 WA E-HSA-850-4-U10 HOS	8x10 RATED ROUGH SERVICE HIGH BAY
EX1	LITHONIA	RSX3 LED P3 40K R4 MVOLT	30' TWO HEAD FIXTURE
EX2	LITHONIA	RSX3 LED P4 40K R4 MVOLT - DDBXD	35' BULLHORN HEADFIXTURE
EX3	LITHONIA	RSX3 LED P3 40K R5 MVOLT DDBXD	35' THREE HEAD FIXTURE
EX4	LITHONIA	RSX3 LED P4 40K R4 MVOLT - DDBXD	35' QUAD HEAD FIXTURE
SL	Lumenpulse	LBX	Lumenbeam - XLarge
WP	LITHONIA	TWX3 LED P4 40K MVOLT PE DDBXD	20' WALLPACK

PARKING ANALYSIS

USER CLASSIFICATION	SQ.FT.	REQUIRED NO. SPACES FACTOR	REQUIRED SPACES
OFFICE (SCALE HOUSE)	1206	2.5 SPACES / 1,000 SQ. FT	1.2
TRANSFER STATION	40,000	1 SPACE / 5,000 SQ. FT	8
SEMI-DOCK HIGH		**TOTAL PARKING REQUIRED**	**8.2**
		PARKING PROVIDED ON SITE	**9**
		REQUIRED ACCESSIBLE PARKING	**1**



1 SITE PLAN
SCALE: 1" = 30'-0"

Attachment II-2 Figure 9 Original December 2025, Revised March 2026

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD
01/09/2025	SD VE

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
800 Sampson St #104 Houston, TX 77003
713.868.3121

SOLID WASTE PLANNING: TETRA TECH
1500 CityWest Boulevard, Suite 1000
Houston, TX 77042
936.202.0746

CIVIL: KIMLEY HORN
11700 Katy Fwy #800 Houston, Tx.
77079
281.920.6571

LANDSCAPE : SWA GROUP
712 Main St, 6th Floor Houston TX 77002
469.525.8731

MEP : INFRASTRUCTURE ASSOCIATES
6117 Richmond Avenue, Suite 200
Houston, Texas 77057
713.622.0120

STRUCTURAL : DALLY ASSOCIATES, INC
9800 Richmond Ave., Suite 600, Houston, TX
77042
713 337 8881

TELECOM/ SECURITY : PGA ENGINEERS
3838 N Sam Houston Pkwy E Houston,
TX 77032
832.867.2161

SEALS:

THIS DOCUMENT IS RELEASED FOR INTERIM REVIEW PURPOSES ONLY. IT IS NOT TO BE USED FOR CONSTRUCTION OR BIDDING.

AUTHORIZED: DANIEL ORTIZ, AIA

LICENSE NUMBER: 25004

DATE:

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER / SPONSORING DEPARTMENT

PROJECT MANAGER

STATE OF TEXAS
JAMES M. NORSTROM
57016
LICENSED PROFESSIONAL ENGINEER
02/25/26
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

DATE: 10/31/2025
WBS NO.: L-000136
SCALE:
DRAWN BY:
CHECKED BY:

SHEET TITLE:
ARCHITECTURAL SITE PLAN

SHEET NO.:
A-011

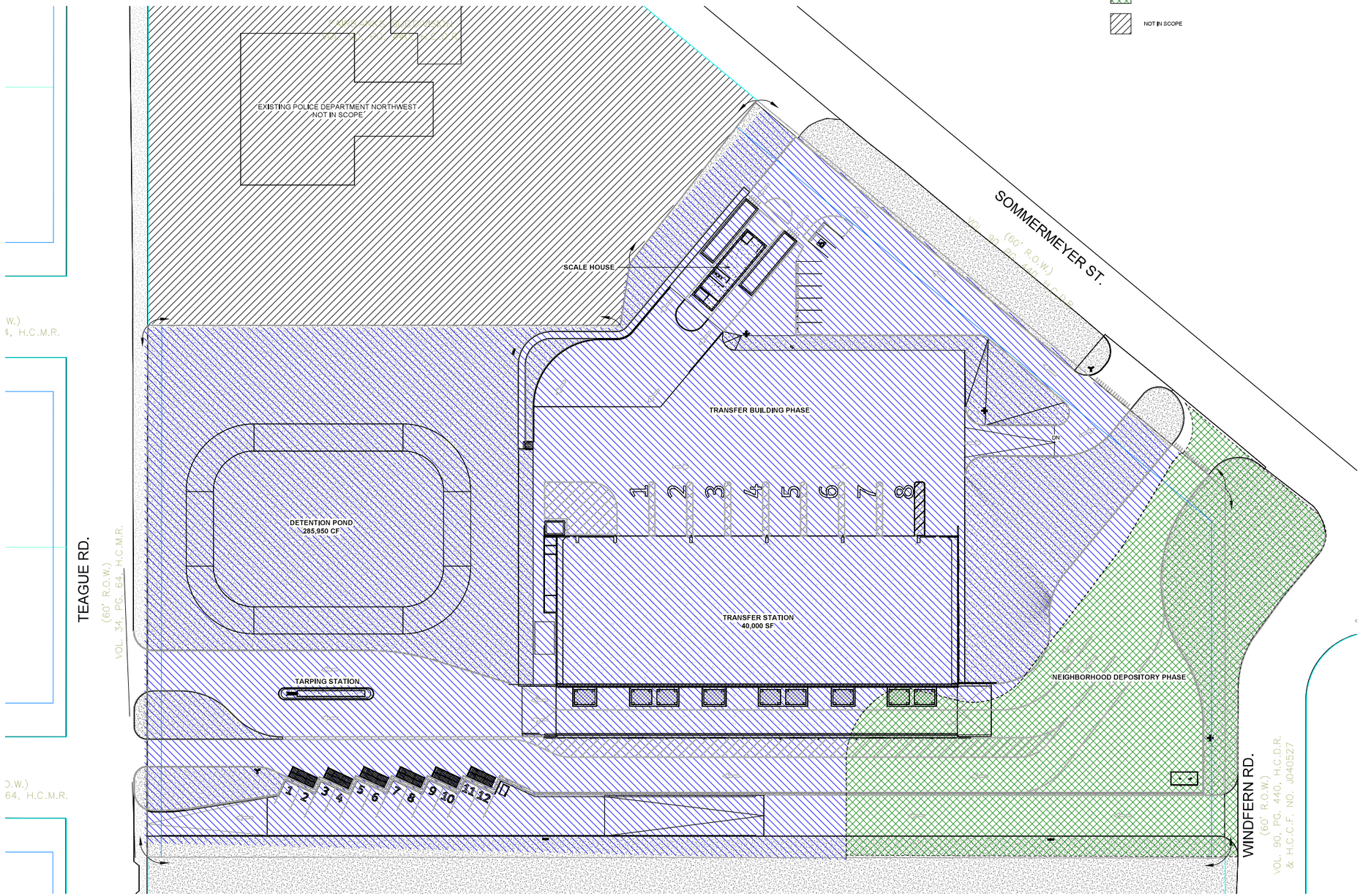
CITY DWG NO.:

PHASING PLAN GENERAL NOTES

1. DEMOLITION IS TO BE PHASED BY CONTRACTOR IN CONJUNCTION WITH OWNER. CONTRACTOR TO MAINTAIN POWER, WATER/SEWER, AND ELECTRICITY THROUGHOUT SITE DURING CONSTRUCTION.
2. CONDITIONS ARE DRAWN AS THEY ARE BELIEVED TO BE. THERE MAY BE VARIANCES IN FIELD CONDITIONS. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO FINAL PRICING.
3. NEIGHBORHOOD DEPOSITORY TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION. CONSTRUCTION OF NEW DEPOSITORY TO BE COMPLETE PRIOR TO DEMOLITION OF EXISTING NEIGHBORHOOD DEPOSITORY. PHASE CONSTRUCTION TO ALLOW CUTOVER FROM EXISTING DEPOSITORY TO NEW DEPOSITORY.

PHASING LEGEND

- PHASE 1 - TRANSFER BUILDING
- PHASE 2 - NEIGHBORHOOD DEPOSITORY
- NOT IN SCOPE



1 CONSTRUCTION PHASING PLAN
SCALE: 1" = 30'-0"

Attachment II-2 Figure 9A Added March 2026

N
0 30' 60'
SCALE : 1" = 30'-0"

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
800 Sampson St #104 Houston, TX 77003
713.868.3121

SOLID WASTE PLANNING: TETRA TECH
1500 CityWest Boulevard, Suite 1000
Houston, TX 77042
936.202.0746

CIVIL: KIMLEY HORN
11700 Katy Fwy #800 Houston, Tx.
77079
281.920.6571

LANDSCAPE : SWA GROUP
712 Main St, 6th Floor Houston TX 77002
469.525.8731

MEP : INFRASTRUCTURE ASSOCIATES
6117 Richmond Avenue, Suite 200
Houston, Texas 77057
713.622.0120

STRUCTURAL : DALLY ASSOCIATES, INC
9800 Richmond Ave., Suite 600, Houston, TX
77042
713 337 8881

TELECOM/ SECURITY : PGA ENGINEERS
3838 N Sam Houston Pkwy E Houston,
TX 77032
832.867.2161

SEALS:

THIS DOCUMENT IS RELEASED FOR THE INTERIM REVIEW PURPOSES ONLY.
IT IT IS NOT TO BE USED FOR CONSTRUCTION, BIDCONSTRUCTION, FITTING, BIDDING, OR PERMITTING.
AUTHORIZED: DANIEL ORTIZ, AIA
AUTHORIZED: DANIEL ORTIZ, AIA
LICENSE NUMBER: 25004
LICENSE NUMBER: 25004
DATE:
DATE:

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER
SPONSOR/DEPARTMENT
PROJECT MANAGER

STATE OF TEXAS
JAMES M. NORSTROM
57016
LICENSED PROFESSIONAL ENGINEER
10/31/25
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3024

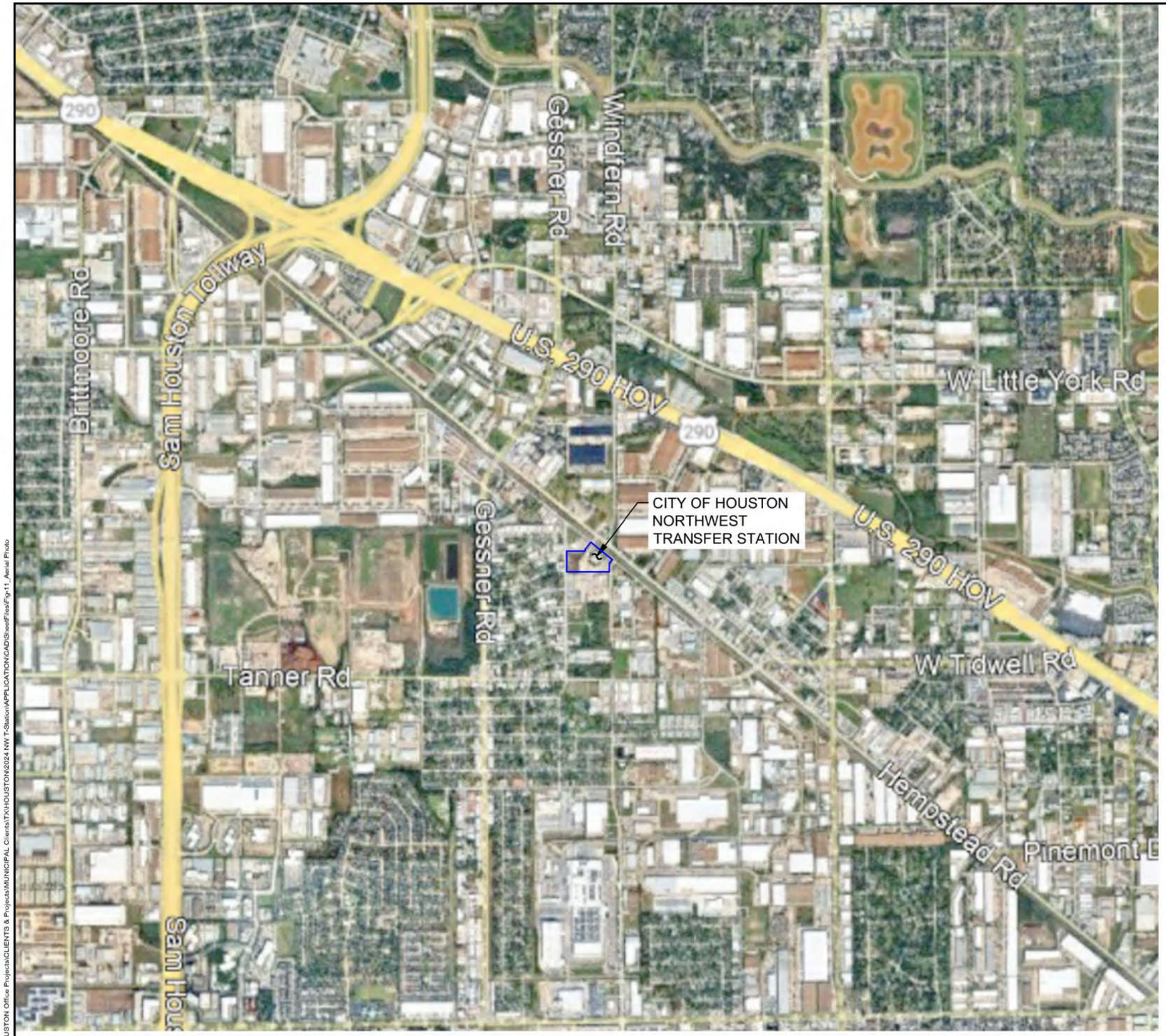
For TCEQ Registration Only

DATE: 10/31/2025
WBS NO.: L-000136
SCALE:
DRAWN BY:
CHECKED BY:

SHEET TITLE:
CONSTRUCTION PHASING PLAN

SHEET NO.:
G-220

CITY DWG NO.:



REFERENCE: GOOGLE EARTH AERIAL IMAGE, NOVEMBER 2023

0 1000 2000

SCALE:1"= 2000'

LEGEND

APPROXIMATE TRANSFER STATION PROPERTY BOUNDARY

TETRA TECH
1500 CityWest Blvd, Suite 1000
Houston, TX 77042
TEL 936.202.0746

AGENCY NAME

DESIGNED BY : -
DRAWN BY : -
CHECKED BY : -
APPROVED BY : -
DATE: 10-2025
PROJ. NO.: 2025-0058

CITY OF HOUSTON NORTHWEST TRANSFER STATION

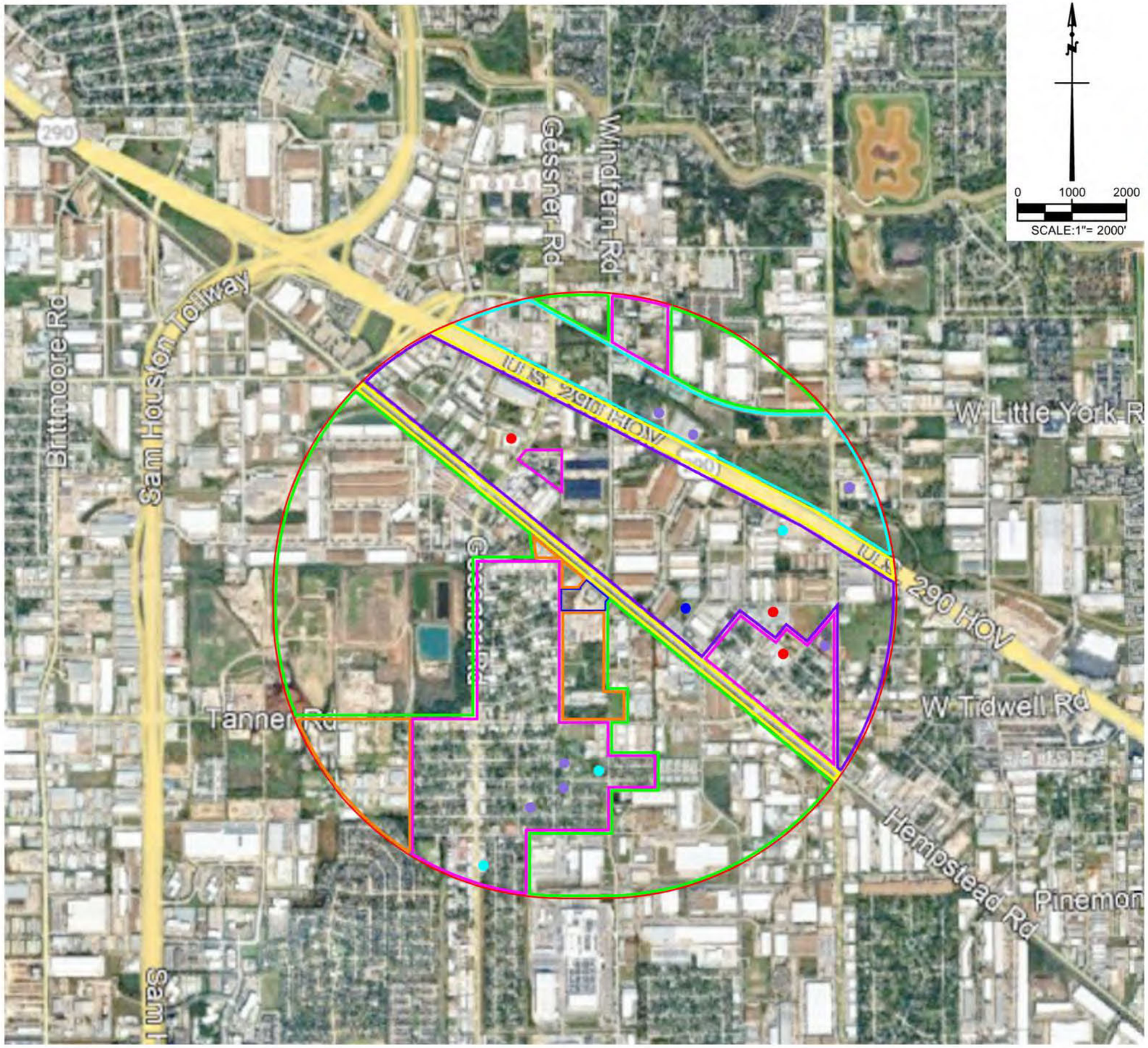
AERIAL PHOTOGRAPH

STATE OF TEXAS
JAMES M. NORSTROM
57016
LICENSED PROFESSIONAL ENGINEER
02/25/26
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

SITE ADDRESS:
14421 SOMMERMEYER ST
HOUSTON TX, 77041
LAT 29°51'23.10"N
LON -95°32'18.46"W

FIGURE 11

J:\HOUSTON Office Projects\CLIENTS & Projects\MUNICIPAL Clients\TX\HOUSTON\2024 NW T-Station\APPLICATION\CAD\SheetFiles\Fig-11_Aerial Photo



REFERENCE: GOOGLE EARTH AERIAL IMAGE, NOVEMBER 2023

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- ONE MILE RADIUS
- RESIDENTIAL
- INDUSTRIAL
- COMMERCIAL AND INDUSTRIAL
- MIXED INDUSTRIAL AND PARKS/OPEN SPACE
- TRANSPORTATION CORRIDORS
- PARKS, OPEN SPACE, OR VACANT
- CHURCH
- SCHOOL
- DAY CARE
- CEMETERY

STATE OF TEXAS
JAMES M. NORSTROM
57016
LICENSED PROFESSIONAL ENGINEER
02/25/26
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

NOTES:

1. THERE IS NO ZONING AT THE TRANSFER STATION PROPERTY NOR WITHIN ONE MILE OF THE PROPERTY.
2. EASEMENTS ON THE TRANSFER STATION PROPERTY ARE SHOWN ON THE BOUNDARY SURVEY DRAWING, ATTACHMENT I-4 FIGURE 4.

LAND USE	AREA, ACRES	PERCENTAGE OF TOTAL AREA, %
NORTHWEST TRANSFER STATION SITE	7.8	0.34
RESIDENTIAL	443.6	19.17
COMMERCIAL / INDUSTRIAL	1474.8	63.72
TRANSPORTATION CORRIDORS	106.9	4.62
PARKS, OPEN SPACE, OR VACANT	205.4	8.87
SCHOOLS	32.2	1.39
PONDS AND LAKES	0	0
CEMETERIES	3.6	0.16
BUS TERMINAL	0	0
TOTAL	2314.5	100

SITE ADDRESS:
14421 SOMMERMEYER ST
HOUSTON TX, 77041
LAT 29°51'23.10"N
LON -95°32'18.46"W

TETRA TECH
1500 CityWest Blvd, Suite 1000
Houston, TX 77042
TEL 936.202.0746

AGENCY NAME

DESIGNED BY: -
DRAWN BY: -
CHECKED BY: -
APPROVED BY: -
DATE: 10-2025
PROJ. NO.: 2025-0058

CITY OF HOUSTON NORTHWEST TRANSFER STATION

LAND USE MAP

FIGURE 12

ATTACHMENT II-5

Original December 2025, Revised March 2026

J:\HOUSTON Office Projects\CLIENTS & Projects\MUNICIPAL Clients\TX\HOUSTON\2024 NW T-Station\APPLICATION\CAD\SheetFiles\Fig-12_Land Use Map

Attachment II–7 Agency Letters and Responses

EXAMPLE LETTER FROM THE CITY OF HOUSTON TO THE TCEQ

Municipal Solid Waste Permits Section, MC124
Waste Permits Division
Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, TX 78753

June 30, 2025

Subject: City of Houston Northwest Transfer Station Reconstruction
TCEQ MSW Type V Registration Application
14400 Sommermeyer Street, Houston, Harris County, Texas 77041

Dear TCEQ:

The City of Houston's (COH) Northwest Transfer Station has been in operation since the original Texas Department of Health Permit was issued in 1977. To improve the facility, The COH plans to replace the existing building with a new building and site layout, which will require a new Registration Application to the TCEQ.

To comply with the requirements of 30 TAC Chapter 330.61(p) for the subject registration application, on behalf of the City of Houston (COH), I hereby confirm that the proposed transfer station complies with the City of Houston Integrated Resource Recovery Management Plan dated June 2, 2020.

This letter will be presented as an attachment to the TCEQ registration application.

Sincerely,

Eric Boehm

Mr. Eric Boehm
Project Manager, City of Houston Solid Waste Management Department

cc: Jim Norstrom - Tetra Tech

TETRA TECH

June 27, 2025

Mr. Joseph Bell Executive Director
Texas Historical Commission
P.O. Box 12276
Austin, TX 78711-2276

Subject: Request for Review and Acknowledgement of Code Compliance
Proposed Type V MSW Transfer Station
City of Houston Northwest Transfer Station, 14421 Sommermeyer Street, Houston, Texas
Site Entrance Coordinates 29°51' 25.5594" N, 95°32' 19.1754" W

Dear Mr. Bell:

On behalf of the City of Houston (COH), Tetra Tech (TT) submits this letter as notification of a planned Registration Application for a TCEQ Type V Municipal Solid Waste Transfer Station.

The City of Houston's Northwest Transfer Station at 14421 Sommermeyer Street (14400 in prior TCEQ documents) in Houston, Texas has been a solid waste transfer station since Permit No. 1092 was issued by the Texas Department of Health in November 28, 1977. To improve the facility, The COH plans to demolish the existing building and replace it with a new building and different site layout.

Please see the attached figures. In the Google Earth photo. The current transfer station property is surrounded by the red line. The property enclosed in the yellow line may be added to the new site layout.

Tetra Tech will prepare a new MSW Type V Registration Application for submittal to the TCEQ. This letter is submitted in accordance with Texas Commission on Environmental Quality (TCEQ) Municipal Solid Waste Regulations which state:

- 30 TAC 330.61(o) Texas Historical Review. The owner or operator shall submit a review letter from the Texas Historic Commission documenting compliance with the Natural Resources Code, Chapter 191, Texas Antiquities Code."

Please provide your written acknowledgement that the proposed project complies with the Natural Resource Code, Chapter 191, Texas Antiquities Code. Feel free to respond via email (jim.norstrom@tetratech.com) or call with any questions (936-202-0746).

Sincerely,

Jim Norstrom, P.E.
Senior Project Manager

Attachments
- General Location Map (From 1997 Registration Application)
- Property Layout (Recent Google Earth Aerial Photo)

Tetra Tech
1500 CityWest Boulevard, Suite 1000, Houston, TX 77042
Cell 936-202-0746 jim.norstrom@tetratech.com

Outlook

City of Houston Northwest Transfer Station

From [redacted]
Date Tue 7/22/2025 6:57 AM
To [redacted]

You don't often get email from [redacted] Learn why this is important

⚠ **CAUTION:** This email originated from an external sender. Verify the source before opening links or attachments. ⚠

Re:
THC Tracking #202511928
Date: 07/22/2025
City of Houston Northwest Transfer Station
14421 Sommermeyer Street

Description: Demolish the existing building and replace it with a new building and different site layout.

Dear Jim Norstrom:
Thank you for your submittal regarding the above-referenced project.

The review staff, led by Caitlin Brashear and Tracy Lovingood, has completed its review and has made the following determinations based on the information submitted for review:

Above-Ground Resources

- No historic properties are present or affected by the project as proposed. However, if historic properties are discovered or unanticipated effects on historic properties are found, work should cease in the immediate area; work can continue where no historic properties are present. Please contact the THC's History Programs Division at 512-463-5853 to consult on further actions that may be necessary to protect historic properties.

Archeology Comments

- No historic properties affected. However, if cultural materials are encountered during construction or disturbance activities, work should cease in the immediate area; work can continue where no cultural materials are present. Please contact the THC's Archeology

Division at 512-463-6096 to consult on further actions that may be necessary to protect the cultural remains.

We look forward to further consultation with your office and hope to maintain a partnership that will foster effective historic preservation. Thank you for your cooperation in this review process, and for your efforts to preserve the irreplaceable heritage of Texas. If the project changes, or if new historic properties are found, please contact the review staff. If you have any questions concerning our review or if we can be of further assistance, please email the following reviewers: caitlin.brashear@thc.texas.gov, tracy.lovingood@thc.texas.gov.

This response has been sent through the electronic THC review and compliance system (eTRAC). Submitting your project via eTRAC eliminates mailing delays and allows you to check the status of the review, receive an electronic response, and generate reports on your submissions. For more information, visit http://thc.texas.gov/etrac-system.

Sincerely,

for Joseph Bell, State Historic Preservation Officer
Executive Director, Texas Historical Commission

Please do not respond to this email.

Norstrom, Jim

From: Lupold, Colin - HPW [redacted]
Sent: Friday, October 10, 2025 12:39 PM
To: Norstrom, Jim
Cc: Denise Yee; Boehm, Eric - SWD; Kieschnick, Gregory - GSD
Subject: RE: COH NW Transfer Station Traffic Study to COH Public Works Dept.

⚠ **CAUTION:** This email originated from an external sender. Verify the source before opening links or attachments. ⚠

Thanks, I'll get it routed for review.

Thanks,

Colin J. Lupold, P.E., PTOE
City Traffic Engineer
Office: (832) 395-3371 | Cell: (281) 389-1270
HOUSTON PUBLIC WORKS

From: Norstrom, Jim [redacted]
Sent: Friday, October 10, 2025 11:04 AM
To: Lupold, Colin - HPW <[redacted]
Subject: COH NW Transfer Station Traffic Study to COH Public Works Dept.

[This message came from outside the City of Houston email system. Please be careful while clicking links, opening attachments, or replying to this email.]

Good morning Colin,
On behalf of the City of Houston Solid Waste Management and General Services Departments, Tetra Tech (TT) plans to submit a Type V Registration Application to the TCEQ Solid Waste Permits Division for the proposed Northwest Transfer Station located at 14421 Sommermeyer Street, Houston, TX 77041. The transfer station has operated for many years and the City plans to demolish the current building and redesign and rebuild the entire facility, which will require a new TCEQ MSW Type V Registration.

JKnesek & Associates, Inc. prepared the attached Transportation Analysis which will be part of the Registration Application to TCEQ. The Site Plan in the report shows the proposed site layout and driveways.

Under Title 30 Texas Administrative Code Section 330.61(i), the applicant is required to "submit documentation of coordination of all designs of proposed public roadway improvements such as turning lanes, storage lanes, etc., associated with site entrances with the agency exercising maintenance responsibility of the public roadway involved. In addition, the owner or operator shall submit documentation of coordination with the Texas Department of Transportation for traffic and location restrictions."

Please review the attached Transportation Analysis and let me know if you have any questions or comments. Thanks.

Jim Norstrom, P.E. Senior Project Manager
Cell **936-202-0746** [redacted] Time Zone: Central

Tetra Tech | *Leading with Science®*
1500 CityWest Boulevard, Suite 1000 | Houston, TX 77042 | tetratech.com

TETRA TECH

Texas Parks & Wildlife Department, Wildlife Division
Wildlife Habitat Assessment Program
4200 Smith School Road
Austin, TX 78744-3291

November 10, 2025
512-389-4571

Subject **Federally Listed Species Habitat Assessment and Wetland Determination Report**
City of Houston Northwest Transfer Station
14421 Sommermeyer Street, Houston, Harris County, Texas

Dear Texas Parks & Wildlife Department,

On behalf of the City of Houston, Tetra Tech is preparing a Texas Commission on Environmental Quality (TCEQ) registration application for a new waste transfer station to replace the inactive transfer station that has operated at the subject location for over 20 years. The TCEQ application requires that the applicant demonstrate compliance with applicable federal regulations, including Endangered Species Act (ESA) regulations. As such, Tetra Tech conduced desktop evaluations and an in-field pedestrian survey. No listed species or listed species habitat was observed during a site visit conducted on August 26, 2025. The results of this analysis are included in Attachment 1. (See location map, Attachment 1, Figure 1).

The project area consists of a 7.6-acre site that is currently the inactive Northwest Transfer Station which includes the active Public Depository (Citizen's Collection Station). The property contains the transfer station building, scale-house trailer, concrete-paved driveways and parking areas, and a gravel surfaced area with a grass and bush covering. No wetlands or waterbodies were identified during a site visit conducted on August 26, 2025. The Federally Listed Species Habitat Assessment and Wetland Determination Report is presented in Attachment 1.

On behalf of the City of Houston, Tetra Tech requests that the TPWD conduct a Wildlife Habitat Assessment based on our attached report and provide concurrence that additional site development and reconstruction of the waste transfer station would have no effect on species listed under Texas regulations or the ESA.

Please contact me with any questions at [redacted] or 936-202-0746.

Jim Norstrom, P.E.
Senior Project Manager

Attachment: City of Houston Northwest Transfer Station
Federally Listed Species Habitat Assessment and Wetland Determination Report
14421 Sommermeyer Street, Houston, Harris County, Texas

cc: Eric Boehm – City of Houston Solid Waste Management Department, Project Manager
Denise Yee – RDLR Architects

Tetra Tech
1500 CityWest Boulevard, Suite 1000, Houston, TX 77042
Cell 936-202-0746 [redacted]

TETRA TECH

November 7, 2025

U.S. Army Corps of Engineers
Galveston District
2000 Fort Point Road
Galveston, TX 77550
(409) 766-3899

Subject **City of Houston Northwest Transfer Station**
14421 Sommermeyer Street, Houston, Harris County, Texas
Clean Water Act – Section 404/10 Consultation

Dear U.S. Army Corps of Engineers,

On behalf of the City of Houston, Tetra Tech is preparing a Texas Commission on Environmental Quality (TCEQ) registration application for a new waste transfer station to replace the inactive transfer station that has operated at the subject location for over 20 years. The TCEQ application requires that the applicant demonstrate compliance with applicable federal regulations, including Clean Water Act – Section 404/10 regulations. As such, Tetra Tech conduced desktop evaluations and an in-field pedestrian survey for potential regulated wetlands and waterbodies with potential to occur on the Northwest Transfer Station property (See location map, Attachment 1, Figure 1).

The project area consists of a 7.6-acre site that is currently the inactive Northwest Transfer Station which includes the active Public Depository (Citizen's Collection Station). The property contains the transfer station building, scale-house trailer, concrete-paved driveways and parking areas, and a gravel surfaced area with a grass and bush covering. No wetlands or waterbodies were identified during a site visit conducted on August 26, 2025. The Federally Listed Species Habitat Assessment and Wetland Determination Report is presented in Attachment 1.

On behalf of the City of Houston, Tetra Tech respectively requests that the USACE – Galveston District review the attached report and provide concurrence that demolition of the current facility and construction of the new waste transfer station would not require permit coverage under Section 404/10 of the Clean Water Act.

Please contact me with any questions at [redacted] or 936-202-0746.

Jim Norstrom, P.E.
Senior Project Manager

Attachment: City of Houston Northwest Transfer Station
Federally Listed Species Habitat Assessment and Wetland Determination Report
14421 Sommermeyer Street, Houston, Harris County, Texas

cc: Eric Boehm – City of Houston Solid Waste Management Department, Project Manager
Denise Yee – RDLR Architects

Tetra Tech
1500 CityWest Boulevard, Suite 1000, Houston, TX 77042
Cell 936-202-0746 [redacted]

TETRA TECH

November 20, 2025

Ms. Erin Livingston
Solid Waste Management Program
Houston-Galveston Area Council of Governments
3555 Timmons Lane
Houston, Texas 77227
832-681-2525

Subject: Regional Solid Waste Management Plan Review by Local Council of Governments
MSW TYPE V Transfer Station Registration Application
City of Houston Northwest Transfer Station – Houston, Harris County, Texas

Dear Ms. Livingston:

On behalf of the City of Houston, Tetra Tech (TT) plans to submit a Type V Registration Application to the TCEQ Solid Waste Permits Division for the Northwest Transfer Station located at 14421 Sommermeyer Street, Houston, TX 77041. The current Northwest Transfer Station has operated at this location for over 20 years. The City deactivated the facility in 2023 and plans to replace the existing building and infrastructure with a new building and associated facilities. A General Location Map is enclosed with Parts I and II of the application.

Under 30 TAC Section 330.6l (p), the applicant is required to submit Parts I and II of the application to the applicable Council of Governments for review and confirmation that the proposed project is consistent with regional solid waste plans. If you find that the project is consistent with your solid waste plan, please respond via email to [redacted]

Or, if you have any questions about the project, please contact me.

Sincerely,



Jim Norstrom, P.E.
Senior Project Manager

Attachment - Type V Registration Application, Parts I & II

cc: Eric Boehm –Project Manager, City of Houston Solid Waste Management Department
Greg Kieschnick – Senior Project Manager, City of Houston General Service Department
Denise Yee – Senior Associate, RDLR Architects, Inc.

Tetra Tech
1500 CityWest Boulevard, Suite 1000, Houston, TX 77042
Cell 936-202-0746 Tel 832-251-5160 [redacted]

ORIGIN ID:NQIA (936) 202-0746
JIM NORSTROM
TETRA TECH
1500 CITYWEST BOULEVARD
SUITE 1000
HOUSTON, TX 77042
UNITED STATES US

SHIP DATE: 21NOV25
ACTWGT: 2.00 LB
CAD: 5041815/INET4535

BILL SENDER

TO **MS. ERIN LIVINGSTON**
HGAC - SOLID WASTE PROGRAM
3555 TIMMONS LANE

HOUSTON TX 77227
(832) 681-2525
INV:
PO:

REF: 197-2025-0058 TASK 200
DEPT:

58HJ4/D239/59F2

FedEx Express

2540250924011uv

WED - 26 NOV 5:00P
EXPRESS SAVER

TRK# 0201 **8862 4661 5666**

43 HOUA

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TX-US IAH

After printing this label:
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2. Place label in shipping pouch and affix it to your shipment.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Norstrom, Jim

From: Karen Hardin [redacted]
Sent: Monday, November 24, 2025 1:04 PM
To: Norstrom, Jim
Subject: RE: City of Houston Northwest Transfer Station; TPWD Project 57409

You don't often get email from [redacted] Learn why this is important

⚠ **CAUTION:** This email originated from an external sender. Verify the source before opening links or attachments. ⚠

Dear Jim Norstrom,

I reviewed the project materials submitted for the City of Houston proposed Northwest Transfer Station in the location of an inactive transfer station that will be reconstructed at 14421 Sommermeyer Street in Houston, Harris County.

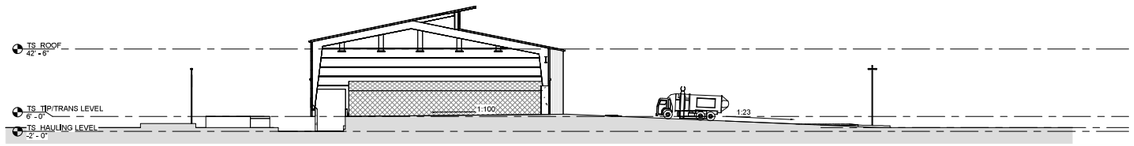
The effects determinations regarding state-listed species provided by Tetra Tech are reasonable, and I agree with Tetra Tech's assessment regarding which species among the protected species could be impacted, namely potential for the state listed threatened Rafineaque's big-eared bat to occur within the abandoned buildings. I also agree with the best management practices (BMPs) recommended by Tetra Tech, and I recommend that they be followed to avoid or minimize potential impacts to Rafinesque' s big eared bat. Additionally, if bats are encountered roosting within the site, please coordinate further with TPWD for additional guidance.

Please note that TPWD does not have authority to provide concurrence of an effects determination for federally listed species under Endangered Species Act. The U.S. Fish & Wildlife Service is the regulating agency and must be contacted regarding any ESA compliance needs for the project greater than no effect.

Please submit future projects to [redacted] You will receive an automated response that we received your project. If you do not receive the response, please try resending without embedded links or large files.

Sincerely,

Karen Hardin
Environmental Review Biologist
Ecological & Environmental Planning Program
Texas Parks and Wildlife Department
4200 Smith School Road
Austin, TX 78744
903-644-6155 cell
[redacted]



2 SITE SECTION
SCALE: 1" = 30'-0"

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
P05	PTD, STRIPPING AS SHOWN.
S01	PREFABRICATED DEPOSIORY CHECK-IN BUILDING
S02	FUELING
S03	RECYCLING BINS
S04	CARDBOARD COMPACTORS
S05	EV CHARGING
S25	NEW GENERATOR, REFER TO MEP DRAWINGS

SITE PLAN GENERAL NOTES

1. SITE PLAN INDICATED GENERAL DESIGN INTENT OF ARCHITECTURAL SITE WORK. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR SUB-SURFACE WORK AND LANDSCAPE DRAWINGS FOR OTHER WORK NOT SPECIFIED HEREIN.

2. REFER TO SHEETS G-004 & G-005 FOR TYPICAL ACCESSIBILITY STANDARDS FOR ALL DESIGN STANDARDS AND REQUIREMENTS RELATED TO ACCESSIBILITY.

3. COMPLY WITH THE REQUIREMENTS OF THE TEXAS ACCESSIBILITY STANDARDS FOR ALL DESIGN STANDARDS AND REQUIREMENTS RELATED TO ACCESSIBILITY.

4. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST POSSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE ENTRANCE.

5. ACCESSIBLE PARKING SPACES SHALL BE AT LEAST 96" WIDE AND LEVEL WITH SLOPES NOT EXCEEDING 2% IN ALL DIRECTIONS.

6. ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED BY A SIGN SHOWING THE "SYMBOL OF ACCESSIBILITY", AN ADDITIONAL "VAN ACCESSIBLE" SIGN SHALL BE MOUNTED BELOW FOR ALL VAN ACCESSIBLE SPACES.

7. SLOPES OF CURB RAMPS ALONG AN ACCESSIBLE PATH SHALL NOT EXCEED 1:20. TRANSITIONS FROM RAMPS TO TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE MIN. WIDTH OF A CURB RAMP SHALL BE 36" EXCLUSIVE OF FLARED SIDES. RAMP SURFACES SHALL BE SLIP RESISTANT.

8. CHANGES IN LEVEL UP TO 1/4" MAY BE VERTICAL WITHOUT EDGE TREATMENT. 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.

9. ALL SITE SIGNAGE SHALL COMPLY WITH ALL APPLICABLE CODES, INCLUDING ACCESSIBILITY.

10. GC TO PROVIDE TEMPORARY POWER TO RADIO EQUIPMENT AND RADIO TOWER OPERATIONS UNTIL PERMANENT POWER IS ESTABLISHED.

EXTERIOR LIGHT FIXTURE SCHEDULE

TYPE MARK	MANUFACTURER	Model	DESCRIPTION
A1	LITHONIA	STAK 2X2 4000 LM 80CRI 35K COLT MVOLT	2X2 RECESSED TROFFER
B1	LUX DYNAMICS	4 Q A 840 4 U10 WA E-HSA-850-4-U10 HOS 4 Q A 840 4 U10 WA E-HSA-850-4-U10 HOS	IN-10 RATED ROUGH SERVICE HIGH BAY
EX1	LITHONIA	RSX3 LED P3 40K R4 MVOLT	30' TWO HEAD FIXTURE
EX2	LITHONIA	RSX3 LED P4 40K R4 MVOLT - DDBXD	35' BULLHORN HEADFIXTURE
EX3	LITHONIA	RSX3 LED P3 40K R5 MVOLT DDBXD	35' THREE HEAD FIXTURE
EX4	LITHONIA	RSX3 LED P4 40K R4 MVOLT - DDBXD	35' QUAD HEAD FIXTURE
SL	Lumenpulse	LBX	Lumenbeam - XLarge
WP	LITHONIA	TWX3 LED P4 40K MVOLT PE DDBXD	20' WALLPACK

PARKING ANALYSIS

USER CLASSIFICATION	SQ.FT.	REQUIRED NO. SPACES FACTOR	REQUIRED SPACES
OFFICE (SCALE HOUSE)	1206	2.5 SPACES / 1,000 SQ. FT	1.2
TRANSFER STATION	40,000	1 SPACE / 5,000 SQ. FT	8
SEMI-DOCK HIGH		**TOTAL PARKING REQUIRED**	**8.2**
		PARKING PROVIDED ON SITE	**9**
		REQUIRED ACCESSIBLE PARKING	**1**

A - Route Truck Entrance & Exit. 30-ft wide.

B - Transfer Trailer & Depository Roll-Off Truck Entrance. 30-ft wide.

C - Transfer Trailer Exit. 30- ft wide

D - Public Depository Roll-Off Truck Exit. 20-ft wide.

Public Vehicle Exit. 20- ft wide.

EXISTING POLICE DEPARTMENT NORTHWEST NOT IN SCOPE

SCALE HOUSE

SOMMERMEYER ST.

TEAGUE RD.

WINDFERN RD.

DETENTION POND
76,230 CF

TARPING STATION

TRANSFER STATION
38,640 SF

10' BUILDING LINE

1 SITE PLAN
SCALE: 1" = 30'-0"

Original December 2025, Revised March 2026

N
0 30' 60'
SCALE : 1" = 30'-0"

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD
01/09/2025	SD VE

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
800 Sampson St #104 Houston, TX 77003
713.868.3121

SOLID WASTE PLANNING: TETRA TECH
1500 CityWest Boulevard, Suite 1000
Houston, TX 77042
936.202.0746

CIVIL: KIMLEY HORN
11700 Katy Fwy #800 Houston, Tx.
77079
281.920.6571

LANDSCAPE : SWA GROUP
712 Main St, 6th Floor Houston TX 77002
469.525.8731

MEP : INFRASTRUCTURE ASSOCIATES
6117 Richmond Avenue, Suite 200
Houston, Texas 77057
713.622.0120

STRUCTURAL : DALLY ASSOCIATES, INC
9800 Richmond Ave., Suite 600, Houston, TX 77042
713 337 8881

TELECOM/ SECURITY : PGA ENGINEERS
3838 N Sam Houston Pkwy E Houston, TX 77032
832.867.2161

SEALS:

THIS DOCUMENT IS RELEASED FOR INTERIM REVIEW PURPOSES ONLY. IT IS NOT TO BE USED FOR CONSTRUCTION OR BIDDING.

AUTHORIZED: DANIEL ORTIZ, AIA

LICENSE NUMBER: 25004

DATE:

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER SPONSORING DEPARTMENT

PROJECT MANAGER

STATE OF TEXAS
JAMES M. NORSTROM
57016
LICENSED PROFESSIONAL ENGINEER
02/25/26
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

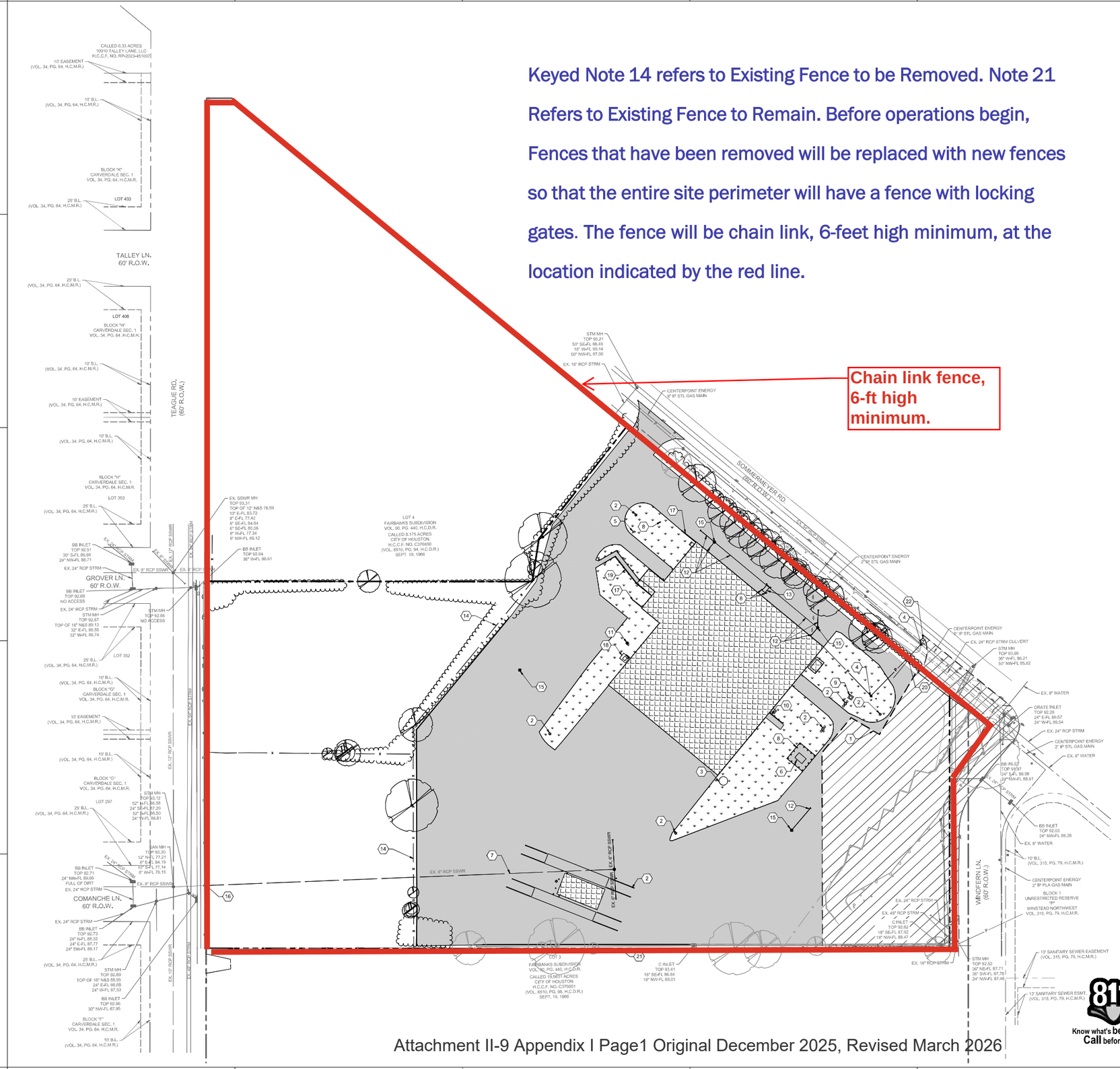
DATE: 10/31/2025
WBS NO.: L-000136
SCALE:
DRAWN BY:
CHECKED BY:

SHEET TITLE:
Attachment II-8
Site Plan

SHEET NO.:
A-011

CITY DWG NO.:

Keyed Note 14 refers to Existing Fence to be Removed. Note 21 Refers to Existing Fence to Remain. Before operations begin, Fences that have been removed will be replaced with new fences so that the entire site perimeter will have a fence with locking gates. The fence will be chain link, 6-feet high minimum, at the location indicated by the red line.



NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

LEGEND	
	EXISTING PAVEMENT TO BE REMOVED. CONTRACTOR TO REMOVE TO FULL DEPTH OF PAVEMENT.
	EXISTING LANDSCAPE AREA TO BE REMOVED.
	EXISTING BUILDING TO BE REMOVED.
	EXISTING AREA NOT BE DISTURBED.
	EXISTING TREE TO BE REMOVED.
	EXISTING TREE TO REMAIN.

KEYED NOTES	
1	CONTRACTOR TO SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT TO EXPOSE REINFORCING.
2	EXISTING LIGHT POLE TO BE REMOVED.
3	EXISTING WET WELL TO BE REMOVED.
4	EXISTING POWER POLE TO BE REMOVED.
5	EXISTING SIGN TO BE REMOVED.
6	EXISTING FUEL TANK TO BE REMOVED
7	SANITARY SEWER LINE TO BE ABANDONED.
8	EXISTING BOLLARDS TO BE REMOVED.
9	EXISTING TELEPHONE BOOTH TO BE REMOVED
10	EXISTING STAIRS TO BE REMOVED.
11	EXISTING SANITARY SEWER MANHOLE TO BE REMOVED.
12	EXISTING STORM LINE TO BE REMOVED.
13	EXISTING STRUCTURE TO BE REMOVED.
14	EXISTING FENCE TO BE REMOVED
15	EXISTING STORM STRUCTURE TO BE REMOVED.
16	CONTRACTOR TO CUT AND CAP EX. SSWR LINE.
17	EXISTING WALL TO BE REMOVED.
18	EXISTING VAULT TO BE REMOVED.
19	EXISTING HANDRAIL TO BE REMOVED.
20	CONTRACTOR TO CUT AND CAP EX. WATER LINE.
21	EXISTING FENCE TO REMAIN.
22	EXISTING MAILBOX TO BE REMOVED.

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.

2. LOCATIONS OF PUBLIC AND PRIVATE UTILITIES SHOWN ARE APPROXIMATE AND MAY NOT BE COMPLETE. CONTRACTOR SHALL CALL 713-223-4567 AT LEAST 48 HOURS PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL CONTACT ANY OTHER UTILITY COMPANIES WHO DO NOT SUBSCRIBE TO THE TEXAS ONE CALL PROGRAM FOR LINE MARKINGS. THE CONTRACTOR BEAR SOLE RESPONSIBILITY FOR VERIFYING LOCATIONS OF EXISTING UTILITIES SHOWN OR NOT SHOWN, AND FOR ANY DAMAGES DONE TO THESE FACILITIES.

3. ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS ARE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEES IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTORS RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK, IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGE DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

4. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.

5. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., TO THE BEST PRACTICES AND APPROVED BY THE OWNER.

6. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED PER THE PLANS.

7. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.

8. ALL DEMOLITION WORK ON CONSTRUCTION VEHICLE TRAFFIC WITHIN 10 FEET OF THE CANOPY OF ANY TREE TO BE SAVED SHALL BE CLOSELY COORDINATED WITH TREE PRESERVATION ACTIVITIES.

9. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS FOR EXCAVATION AND TRENCHING PROCEDURES. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, ETC. AS NECESSARY FOR THESE OPERATIONS, AND SHALL COMPLY WITH ALL OSHA PERFORMANCE CRITERIA.

10. CONTRACTOR TO REMOVE FULL DEPTH OF PAVEMENT (ASPHALT AND CONCRETE). REFERENCE SURVEY FOR LIMITS OF PAVEMENT.

11. CONTRACTOR TO EPOXY ALL EXPOSED REBAR.

12. CONTRACTOR IS RESPONSIBLE FOR MANAGING STORM WATER RUNOFF WITHIN THE PROJECT AREA DURING CONSTRUCTION, INCLUDING PROVIDING MEASURES FOR TEMPORARY CONVEYANCE OF FLOW WHICH MAY CONSIST OF DIVERSION SWALES OR PUMPING OF WATER TO EXISTING STORM OUTFALL LOCATIONS FROM PROJECT AREA TO MATCH EXISTING DRAINAGE PATTERNS PER THE EXISTING CONDITIONS DRAINAGE AREA MAP.

13. CONTRACTOR SHALL SUBMIT A SEQUENCING/PHASING PLAN FOR THE PROPOSED STORM SEWER MODIFICATIONS IN THE SCOPE OF THIS PROJECT TO KIMLEY-HORN FOR REVIEW PRIOR TO COMMENCING CONSTRUCTION. THE STORM SEWER SEQUENCING/PHASING PLAN SHALL INCLUDE THE PROPORED MEASURES TO BE IMPLEMENTED BY CONTRACTOR FOR MANAGING STORM WATER RUNOFF WITHIN THE PROJECT AREA DURING CONSTRUCTION TO ENSURE RUNOFF IS ROUTED TO MATCH THE EXISTING DRAINAGE PATTERNS.

811 Know what's below. Call before you dig.

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
800 Sampson St #104 Houston, TX 77003
713.868.3121

SOLID WASTE PLANNING: TETRA TECH
1500 CityWest Boulevard, Suite 1000
Houston, TX 77042
936.202.0746

CIVIL: KIMLEY HORN
11700 Katy Fwy #800 Houston, Tx. 77079
281.920.6571

LANDSCAPE : SWA GROUP
712 Main St, 6th Floor Houston TX 77002
469.525.8731

MEP : INFRASTRUCTURE ASSOCIATES
6117 Richmond Avenue, Suite 200
Houston, Texas 77057
713.622.0120

STRUCTURAL : DALLY ASSOCIATES, INC
9800 Richmond Ave., Suite 600, Houston, TX 77042
713 337 8881

TELECOM/ SECURITY : PGA ENGINEERS
3838 N Sam Houston Pkwy E Houston, TX 77032
832.867.2161

STATE OF TEXAS
JAMES M. NORSTROM
57016
LICENSED PROFESSIONAL ENGINEER
02/25/26
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

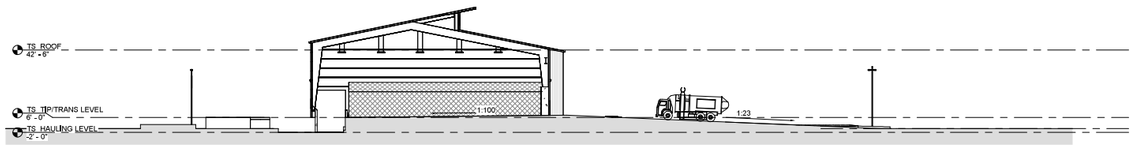
PROJECT MANAGER | SPONSORING DEPARTMENT | PROJECT MANAGER

DATE: 10/28/2025
WBS NO.: L-000136
SCALE: AS NOTED
DRAWN BY: SGY
CHECKED BY: KLM

SHEET TITLE:
DEMOLITION PLAN

SHEET NO.:
C-200

CITY DWG NO.:



2 SITE SECTION
SCALE: 1" = 30'-0"

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
P05	PTD, STRIPPING AS SHOWN.
S01	PREFABRICATED DEPOSITORY CHECK-IN BUILDING
S02	FUELING
S03	RECYCLING BINS
S04	CARDBOARD COMPACTORS
S05	EV CHARGING
S25	NEW GENERATOR. REFER TO MEP DRAWINGS

SITE PLAN GENERAL NOTES

1. SITE PLAN INDICATED GENERAL DESIGN INTENT OF ARCHITECTURAL SITE WORK. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR SUB-SURFACE WORK AND LANDSCAPE DRAWINGS FOR OTHER WORK NOT SPECIFIED HEREIN.

2. REFER TO SHEETS G-004 & G-005 FOR TYPICAL ACCESSIBILITY STANDARDS FOR ALL DESIGN STANDARDS AND REQUIREMENTS RELATED TO ACCESSIBILITY.

3. COMPLY WITH THE REQUIREMENTS OF THE TEXAS ACCESSIBILITY STANDARDS FOR ALL DESIGN STANDARDS AND REQUIREMENTS RELATED TO ACCESSIBILITY.

4. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST POSSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE ENTRANCE.

5. ACCESSIBLE PARKING SPACES SHALL BE AT LEAST 96" WIDE AND LEVEL WITH SLOPES NOT EXCEEDING 2% IN ALL DIRECTIONS.

6. ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED BY A SIGN SHOWING THE "SYMBOL OF ACCESSIBILITY", AN ADDITIONAL "VAN ACCESSIBLE" SIGN SHALL BE MOUNTED BELOW FOR ALL VAN ACCESSIBLE SPACES.

7. SLOPES OF CURB RAMPS ALONG AN ACCESSIBLE PATH SHALL NOT EXCEED 1:20. TRANSITIONS FROM RAMPS TO TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE MIN. WIDTH OF A CURB RAMP SHALL BE 36" EXCLUSIVE OF FLARED SIDES. RAMP SURFACES SHALL BE SLIP RESISTANT.

8. CHANGES IN LEVEL UP TO 1/4" MAY BE VERTICAL WITHOUT EDGE TREATMENT. 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.

9. ALL SITE SIGNAGE SHALL COMPLY WITH ALL APPLICABLE CODES, INCLUDING ACCESSIBILITY.

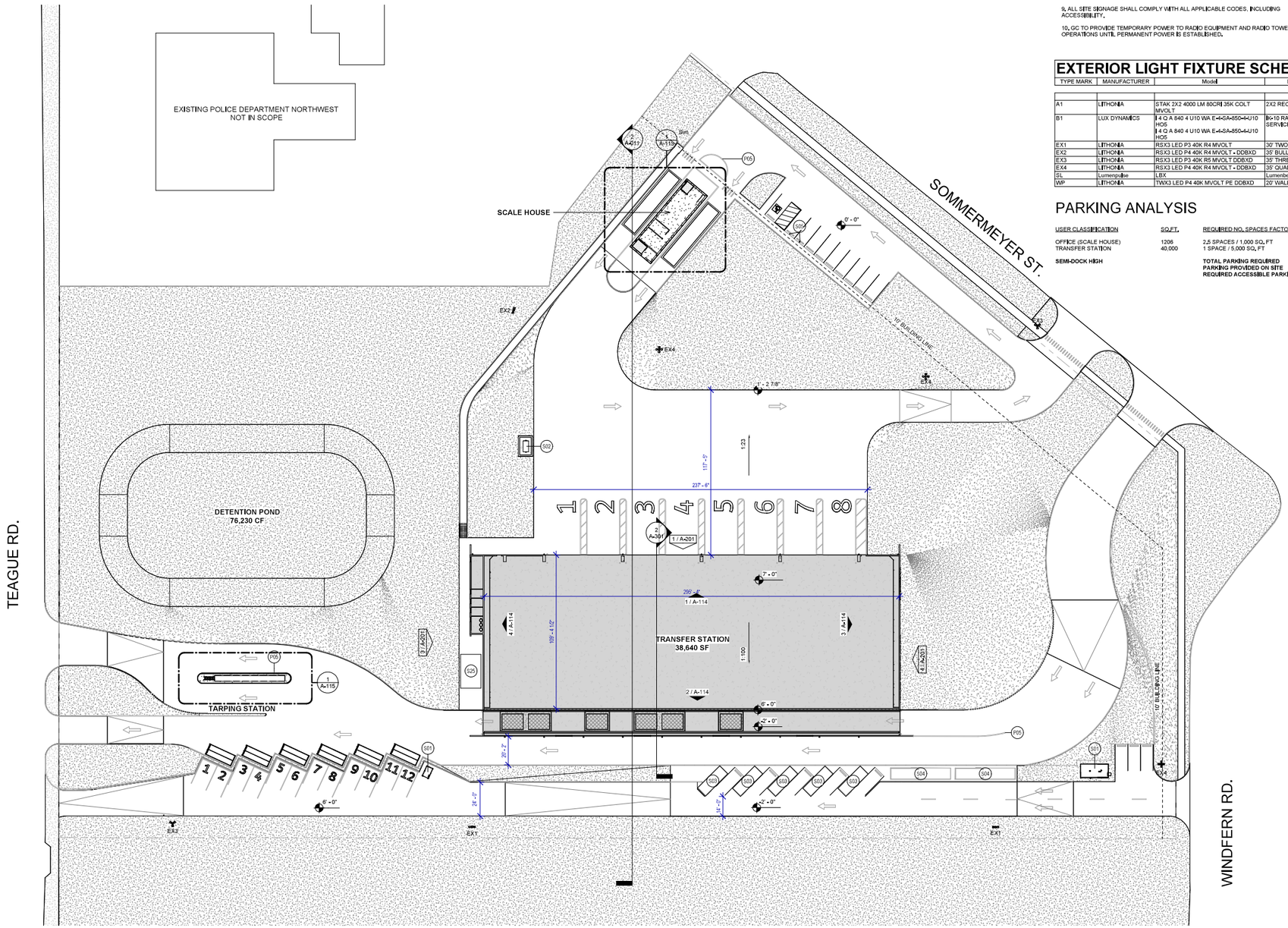
10. GC TO PROVIDE TEMPORARY POWER TO RADIO EQUIPMENT AND RADIO TOWER OPERATIONS UNTIL PERMANENT POWER IS ESTABLISHED.

EXTERIOR LIGHT FIXTURE SCHEDULE

TYPE MARK	MANUFACTURER	Model	DESCRIPTION
A1	LITHONIA	STAK 2X2 4000 LM 80CRI 35K COLT MVOLT	2X2 RECESSED TROFFER
B1	LUX DYNAMICS	4 Q A 840 4 U10 WA E-HSA-850-4-U10 HOS 4 Q A 840 4 U10 WA E-HSA-850-4-U10 HOS	8x10 RATED ROUGH SERVICE HIGH BAY
EX1	LITHONIA	RSX3 LED P3 40K R4 MVOLT	30' TWO HEAD FIXTURE
EX2	LITHONIA	RSX3 LED P4 40K R4 MVOLT - DDBXD	35' BULLHORN HEADFIXTURE
EX3	LITHONIA	RSX3 LED P3 40K R5 MVOLT DDBXD	35' THREE HEAD FIXTURE
EX4	LITHONIA	RSX3 LED P4 40K R4 MVOLT - DDBXD	35' QUAD HEAD FIXTURE
SL	Lumenpulse	LBX	Lumenbeam - XLarge
WP	LITHONIA	TWX3 LED P4 40K MVOLT PE DDBXD	20' WALLPACK

PARKING ANALYSIS

USER CLASSIFICATION	SQ.FT.	REQUIRED NO. SPACES FACTOR	REQUIRED SPACES
OFFICE (SCALE HOUSE)	1206	2.5 SPACES / 1,000 SQ. FT	1.2
TRANSFER STATION	40,000	1 SPACE / 5,000 SQ. FT	8
SEMI-DOCK HIGH		**TOTAL PARKING REQUIRED**	**8.2**
		PARKING PROVIDED ON SITE	**9**
		REQUIRED ACCESSIBLE PARKING	**1**



1 SITE PLAN
SCALE: 1" = 30'-0"

Attachment II-9 Appendix I Page 2 Original December 2025, Revised March 2026

N
0 30' 60'
SCALE : 1" = 30'-0"

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD
01/09/2025	SD VE

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
800 Sampson St #104 Houston, TX 77003
713.868.3121

SOLID WASTE PLANNING: TETRA TECH
1500 CityWest Boulevard, Suite 1000
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77079
281.920.6571

LANDSCAPE : SWA GROUP
712 Main St, 6th Floor Houston TX 77002
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Houston, Texas 77057
713.622.0120

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713 337 8881

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3838 N Sam Houston Pkwy E Houston,
TX 77032
832.867.2161

SEALS:

THIS DOCUMENT IS RELEASED FOR INTERIM REVIEW PURPOSES ONLY. IT IS NOT TO BE USED FOR CONSTRUCTION OR BIDDING.

AUTHORIZED: DANIEL ORTIZ, AIA

LICENSE NUMBER: 25004

DATE:

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER SPONSORING DEPARTMENT

PROJECT MANAGER

STATE OF TEXAS
JAMES M. NORSTROM
57016
LICENSED PROFESSIONAL ENGINEER
02/25/26
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

DATE: 10/31/2025
WBS NO.: L-000136
SCALE:
DRAWN BY:
CHECKED BY:

SHEET TITLE:
ARCHITECTURAL SITE PLAN

SHEET NO.:
A-011

CITY DWG NO.:

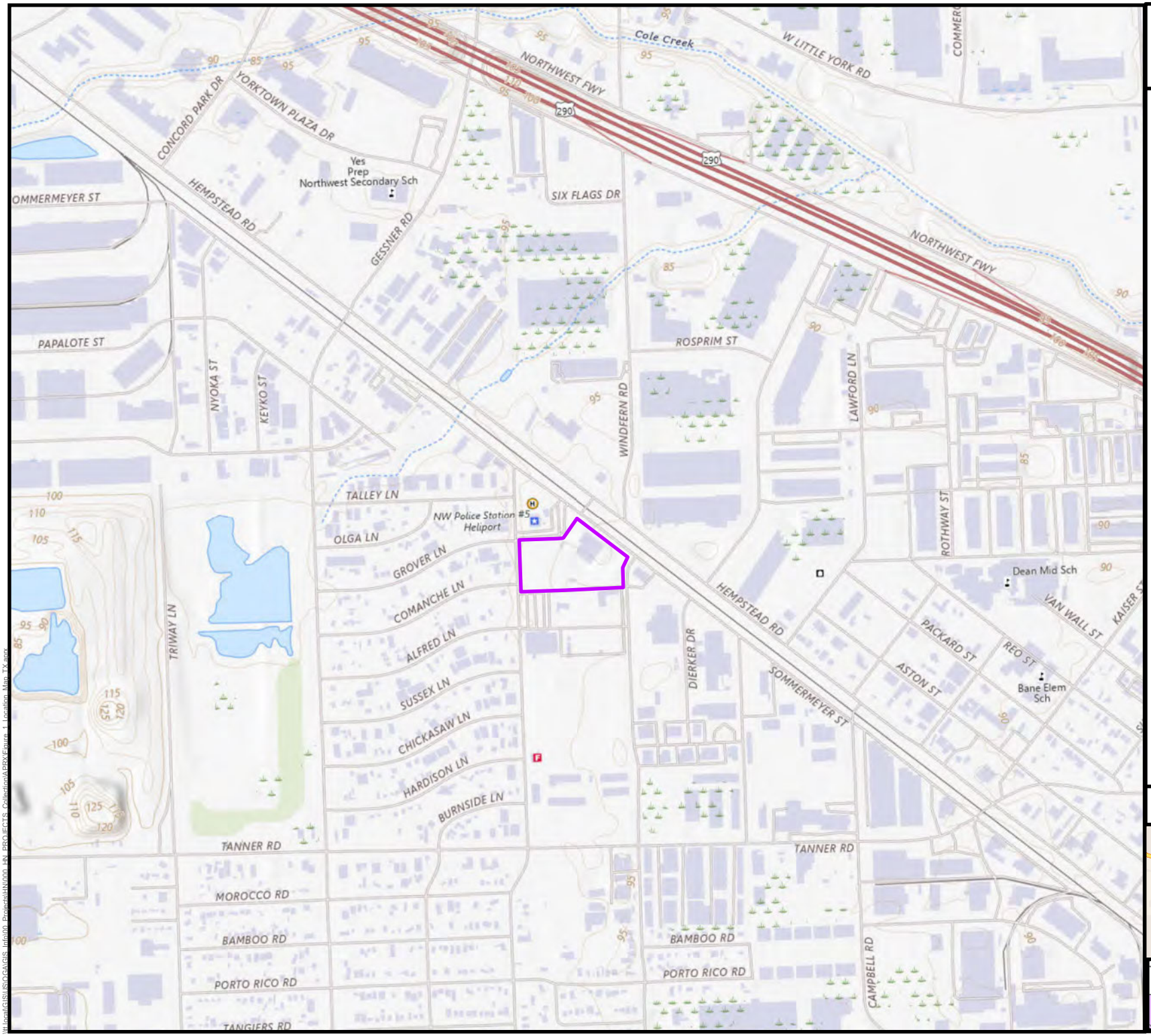


FIGURE 1.

SITE LOCATION MAP

CITY OF HOUSTON NW SOLID WASTE TRANSFER STATION REPLACEMENT PROJECT

HARRIS COUNTY, TEXAS

LEGEND

Project Area

STATE OF TEXAS
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TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

N

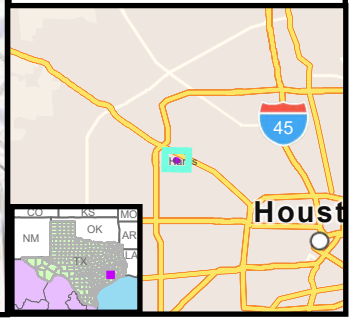
Feet 0 500 1,000

SCALE: 1 inch = 1,000 feet

Sheet 1 of 1

Date: September 2025
Project: 212IC-HN-03538

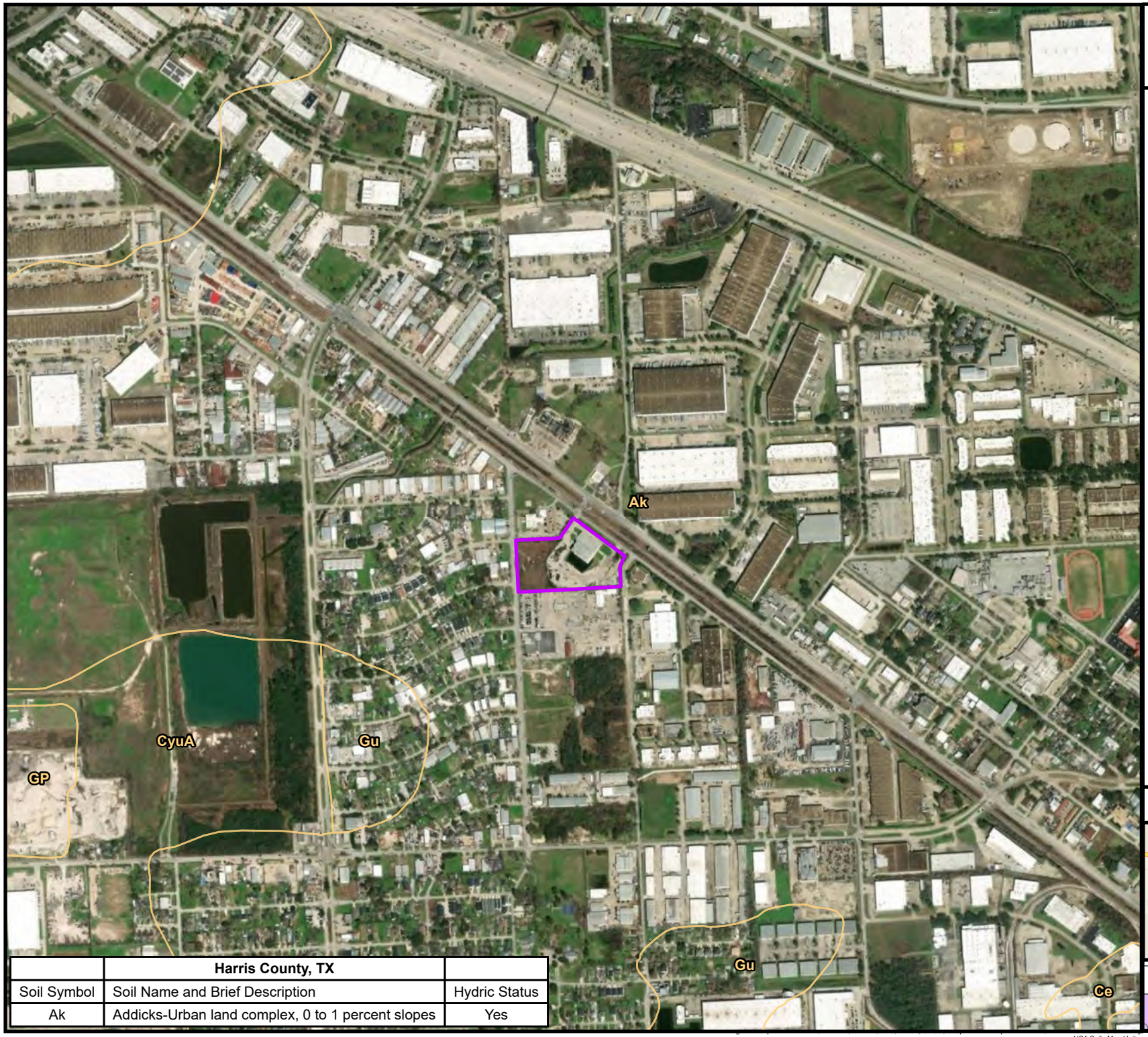
Prepared By:



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Drawn By: Samantha.Lai

Source: Esri USA Topo Maps



	Harris County, TX	
Soil Symbol	Soil Name and Brief Description	Hydric Status
Ak	Addicks-Urban land complex, 0 to 1 percent slopes	Yes

FIGURE 2

USDA-NRCS SOILS MAP

CITY OF HOUSTON NW SOLID WASTE TRANSFER STATION REPLACEMENT PROJECT

HARRIS COUNTY, TEXAS

LEGEND

Project Area

Soils

STATE OF TEXAS
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LICENSED
PROFESSIONAL ENGINEER
02/25/26
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

N

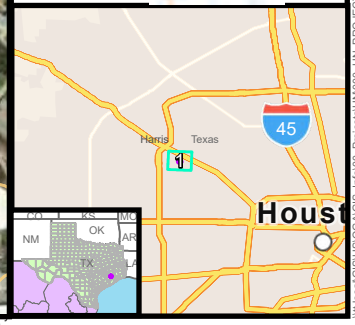
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SCALE: 1 inch = 1,000 Feet

Sheet 1 of 1

Date: September 2025
Project: 212C-HN-03538

Prepared By: TETRA TECH

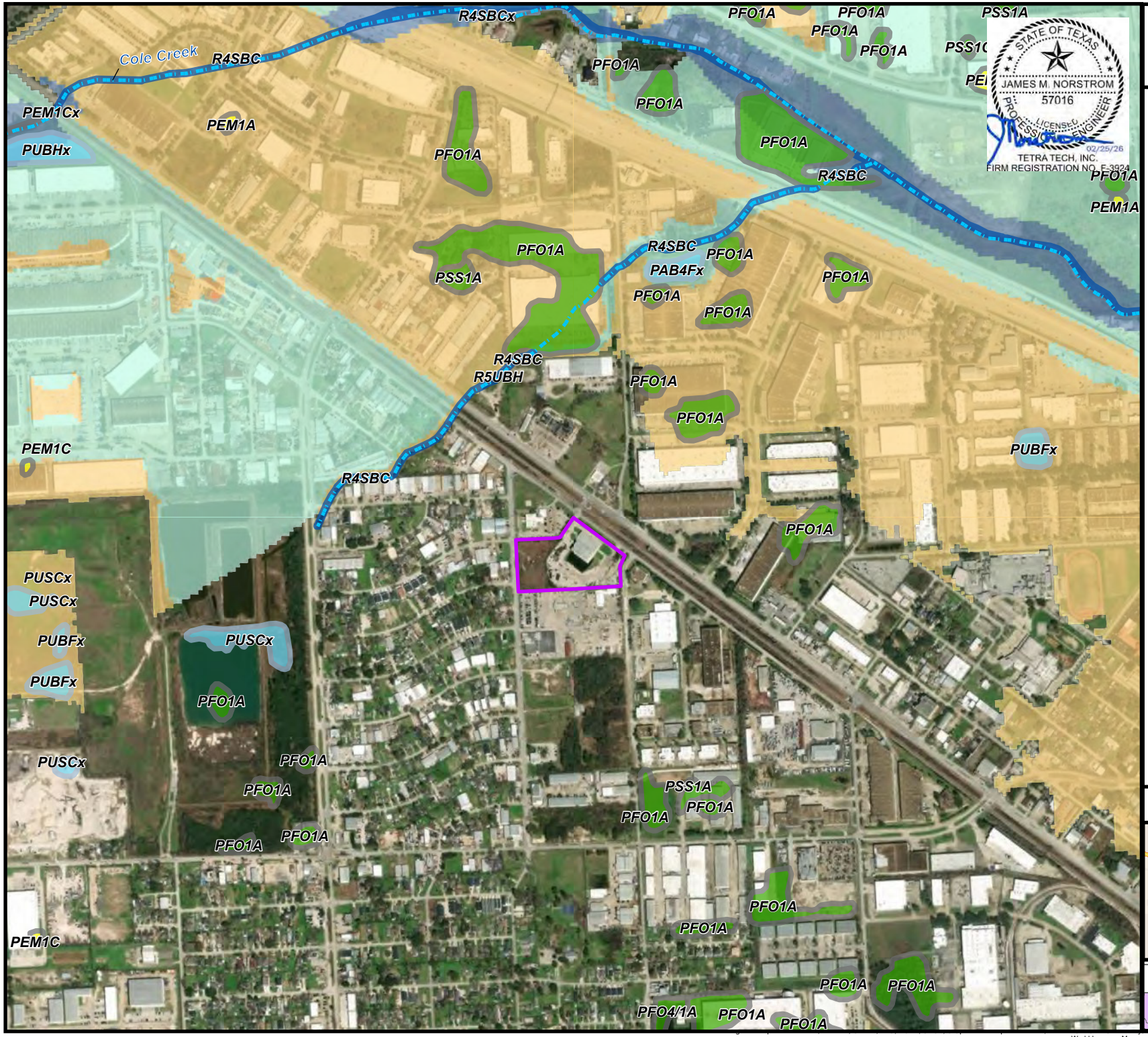


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Drawn By: Samantha.Lai

Attachment II-10 Original Dec 2025, Revised Mar 2026

USA Soils Map Units:
World Imagery: Maxar



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02/25/26
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

FIGURE 3

NWI, NHD, AND FEMA FLOODPLAIN FEATURES MAP

CITY OF HOUSTON NW SOLID WASTE TRANSFER STATION REPLACEMENT PROJECT

HARRIS COUNTY, TEXAS

LEGEND

- Survey Area
- USGS NHD Flowline
- Freshwater Emergent Wetland
- Freshwater Forested/ Shrub Wetland
- Freshwater Pond
- Riverine
- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- 0.2% Annual Chance Flood Hazard

N

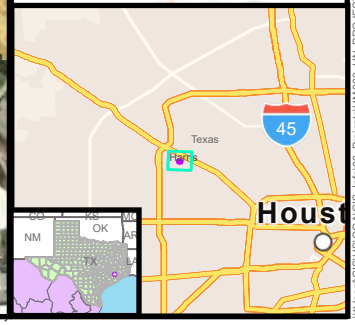
Feet 0 500 1,000

SCALE: 1 inch = 1,000 Feet

Sheet 1 of 1

Date: September 2025
Project: 212IC-HN-03538

Prepared By: TETRA TECH



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Drawn By: Samantha.Lai

Attachment II-10 Original Dec 2025, Revised Mar 2026

World Imagery: Maxar
USA Flood Hazard Areas: Source: FEMA, Esri



FIGURE 4.

IDENTIFIED FEATURES MAP

CITY OF HOUSTON NW SOLID WASTE TRANSFER STATION REPLACEMENT PROJECT

HARRIS COUNTY, TEXAS

Legend

- Project Area
- Land Cover Point
- Upland Point
- Inundated Abandoned Truck Docking Station
- Transects

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FIRM REGISTRATION NO. F-3924

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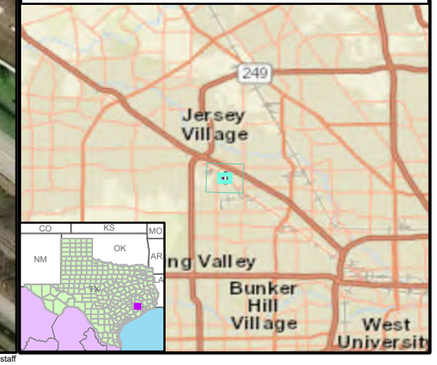
SCALE: 1 inch = 200 Feet

Feet 0 100 200

Sheet 1 of 1

Date: September 2025
Project: 212IC-HN-03538

Prepared By: TETRA TECH



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Drawn By: Samantha.Lai

Source: Esri World Imagery; Delineations by Tt staff

Type V Registration Application No. 40348
Northwest Transfer Station
14421 Sommermeyer Street, Houston, Texas

Part III
Site Development Plan

Prepared for:

City of Houston General Services and Solid Waste Management Departments

611 Walker Street, Houston, Texas 77002

Prepared by:

TETRA TECH

STATE OF TEXAS
JAMES M. NORSTROM
57016
LICENSED
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03/01/26
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

TBPELS Registration No. F-3924

1500 CityWest Boulevard, Suite 1000, Houston, TX 77042

936-202-0746

December 2025 Revised March 2026

Part III

Type V Transfer Station Registration Application

Houston, TX



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~~2.1.1 Adequacy of Access Roads and Highways 30TAC330.63(a) ..... 1~~
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1.0 INTRODUCTION

According to 30 TAC 330.63(a), the following sections include the applicable portions of Part III of a registration application that summarize the land use and zoning, adequacy of access roads and highways, and the general design of the facility to safeguard human health and the environment.

1.1 Site Location

The NorthwestNorthwest Transfer Station located at 14421 Sommermeyer Street in Houston, Texas has been an active MSW transfer station for over 20 years. The City of Houston stopped operations in 2023 and plans to demolish the building and reconstruct the building, scale-house, and pavements on the expanded 7.58-acre property(Attachment III-1). The facility is located immediately west of the intersection of Sommermeyer Street and Windfern Road.

The site is owned by the City of Houston. The mailing address for the transfer station will be:

Northwest Transfer Station, City of Houston Solid Waste Department,
14421 Sommermeyer Street, Houston, Texas 77041

The coordinates of the transfer station property are:

Latitude	29° 51’ 23.10” N
Longitude	95°32’ 18.46” W

1.2 Land Use and Zoning 30TAC330.63(a)

Land use and zoning is described in Application Parts I&II, Section 4.1.

2.0 GENERAL FACILITY DESIGN

The general facility design is discussed in the following sections in accordance with 30 TAC 330.63(b).

2.1 Facility Access

A transportation analysis was performed for the Northwest Transfer Station in accordance with 30 TAC 330.61(i).

2.1.1 Adequacy of Access Roads and Highways 30TAC330.63(a)

Access to the facility will be provided by the entrance on Sommermeyer Street. The owner will obtain required permits from appropriate governmental agencies prior to construction of the new driveway entrance and exit. Vehicular traffic to the facility will access the facility from Sommermeyer Street by way of a street crossing the railroad tracks from Hempstead Highway, which is a major thoroughfare that is four lanes with curbs.

Based on the transportation study (Attachment II-8), the roadways that will provide access to the facility have adequate capacity and structure to serve the needs of the proposed transfer station without disrupting existing traffic. Proposed entrances and exits are show on the Site Plan in the Transportation Analysis Report.

There are no proposed public roadway improvements such as turning lanes, storage lanes, etc., associated with the site entrances.

2.1.2 Fences and Access Control 30TAC330.63(b)(1)

Public access to the transfer station will be controlled by means of a perimeter fence which will encompass the entire transfer station property. Access to the transfer station will be limited to the gated entrance on Sommermeyer Street.

Site security measures are designed to prevent unauthorized persons from entering the site, to protect the facility and its equipment from possible damage caused by trespassers, and to prevent disruption of facility operations caused by unauthorized site entry. Unauthorized entry into the site is minimized by controlling access to the transfer station site with the perimeter fence and locking gates at the entrance and exit. The perimeter fence will consist of a 6-foot-high (minimum) chain-link fence. The Demolition Plan, Attachment III-1 Page 2 (Sheet C-200), shows the location of the perimeter fence.

During operating hours, site personnel will continuously monitor the entrance gate to prevent unauthorized entry to facility. Entry to the active portion of the transfer station will be restricted to designated personnel, approved waste haulers, and properly identified persons whose entry is authorized by site management.

A conspicuous sign measuring a minimum 4 feet by 4 feet will be maintained at the entrance to the facility. In letters at least 3-inches high, a sign that is readable from the entrance will state the facility name, facility type, the TCEQ registration number, hours of operation, 24-hour emergency contact phone number, and the local fire department phone number. Other signs stating rules will be posted throughout the site, including a sign listing prohibited wastes.

2.2 Waste Movement 30TAC330.63(b)(2)

2.2.1 Waste Flow Diagram 30TAC330.63(b)(2)(A)

A waste and Source-Separated Recyclable Material (30 TAC 328.2(6)) movement flow diagram indicating the processing, storage, and disposal sequence is shown on Attachment III-2. The facility will not accept or store grease, oil, or sludge. Therefore, the requirements of 330.63(b)(2)(G) do not apply. In addition to waste that is reloaded into transfer trailers destined for landfills, the facility will accept Source-Separated Recyclable Material (30 TAC 328.2(6)) for reloading and transport to material recovery facilities.

2.2.2 Waste Process Schematic View 30TAC330.63(b)(2)(B)

Schematic views indicating truck flow and waste movement are shown in Attachment III-3. These figures include the transfer station registration boundary and the traffic flow patterns.

2.2.3 Ventilation and Odor Control 30TAC330.63(b)(2)(C)

Ventilation will be provided in accordance with the current TCEQ MSW Air Permitting regulations applicable to municipal solid waste facilities (Attachment III-5). Ventilation will be provided in the transfer station building using fans located near the roof peak over 16 feet above the ground surface with a combined flow of over 45,000 cubic feet per minute (cfm).. Excessive dust and particulates that occur in the building will be controlled using water sprays, mist systems, or similar methods.

A minimum 50-foot buffer will be provided between the transfer building and the site boundaries to prevent nuisance odors from leaving the boundary of the facility.

If nuisance odors are found to be passing the facility boundary, the operator will employ odor control equipment. The facility may be required to suspend operations until the nuisance has been abated.

Solid waste and Source-Separated Recyclable Material (30 TAC 328.2(6)) processing operations will be conducted within the building to prevent nuisance odors from developing outside. All waste or Source-

Separated Recyclable Material storage or holding will occur within the building. No storage of waste materials or Source-Separated Recyclable Material will occur outside the building.

The ground surface will be graded to prevent ponding of water. Drainage structures will be maintained to prevent accumulation outside of required detention, and thus minimize any nuisance odors associated with stagnant water.

2.2.4 Generalized Construction Details 30TAC330.63(b)(2)(D-F)(H)

The transfer station site includes the transfer station building with dual loading tunnels, a gatehouse with two scales, a radio equipment building, an optional office/break room trailer, service drives, a fire suppression system, a lift station for contaminated water, a stormwater drainage system, and a perimeter fence with locking-gates. The transfer station building is a split-level structure with an above-grade waste or Source-Separated Recyclable Material handling building and below-grade loading tunnels with scales. The building footprint will be approximately ~~40,000~~38,640 square feet with concrete floors, concrete or steel push walls, steel framing, metal exterior panels, and a roof. The transfer station building contains a mechanical room, electrical room, sprinkler riser room, IT/Data room, and a storage room. Site and building layout drawings are included in Attachment III-4.

The tipping floor area will be about 30,000 square feet and is used for waste and Source-Separated Recyclable Material unloading, processing, storage, and loading. The tipping floor is shown in Attachment III-4, Sheet A-112. The only effluent resulting from the processing operations will be the wash water from tipping floor cleaning. Wash water will be directed toward the loading tunnel where it will be collected by grated drains. A lift station will be located near the loading tunnels, outside of the building and near a City of Houston sanitary sewer connection for disposal. The layout of the grated trenches and associated piping is included in Attachment III-6, Drawings P-201 through P-501. The lift station and associated piping will be cleaned as necessary.

The transfer station features a metal roof structure that covers the reinforced concrete tipping pad used for waste and Source-Separated Recyclable Material processing and storage as well as a loading tunnel for the transfer trucks. The building is enclosed on all four sides with approximate door heights of 29 feet for collection trucks and 22 feet for transfer trucks. Route trucks will enter through a series of doors along the north wall and unload onto the tipping floor. The transfer station boundary is completely enclosed by a chain-link fence.

2.2.5 Noise Pollution Control 30TAC330. 63(b)(2)(I)

The facility is designed to minimize noise pollution and visual impact to neighboring landowners and the public. Waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) processing operations will be conducted within the transfer station building with the doors facing away from Neches Street and the I-69 HOV lane.

2.3 Sanitation and Water Pollution Control 30TAC330.63(b)(3,4)

All liquids resulting from the operation of the transfer station will be disposed of in a manner that will not cause surface water or groundwater pollution. The storm water management plan designed to minimize and route storm water away from the waste processing area will provide surface water protection, thus minimizing the generation of contaminated water.

Uncontaminated water is any water that has not come into contact with waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) (referred to as storm water, clean storm water, surface water, and uncontaminated surface water). Contaminated water is any water that has contacted waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) (eg. washwater from the tipping floor).

The pavement and ground surface around the building will be graded to promote uncontaminated surface water drainage away from the building and toward the surface drainage system. Surface water that drains down the sloped roadway into the loading tunnels will be captured by grated trench drains and will not be allowed to mix with the contaminated water in the loading tunnels.

The former transfer station used a lift station connected to the City of Houston sanitary sewer system for disposal of contaminated water. In the new building, wastewater will be collected by drains in the floor of the loading tunnel (Attachment III-6, Sheet P-201) which drains by gravity into an oil/water separator, then through a sample well, then into the City sanitary sewer pipe. For the Northeast Transfer Station project, the Houston Public Works Department informed us that "the Industrial Wastewater Service does not require an industrial waste permit for the discharge of wastewater to the sanitary sewer system that is generated on-site at City-owned transfer stations." However, permitting of the oil-water separator (grit trap) may be required by the Houston Health Department, Bureau of Consumer Health before it can be operated.

Solid waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) unloading and loading operations will be conducted on the tipping floor, a concrete-paved area inside the transfer station building. Therefore, contact of storm water with waste material or Source-Separated Recyclable Material (30 TAC 328.2(6)) is minimized. The tipping floor will be washed down before changing from management of waste to Source-Separated Recyclable Material and before changing from management of Source-Separated Recyclable Material to waste. Floor wash water will not be allowed to accumulate on the tipping floor or in the tunnels but will be directed toward the loading tunnel area via a sloped tipping floor. Floor wash water in the loading tunnel floor will be collected in grated drains as described above.

2.3.1 Surface Water and Groundwater Protection 30TAC330.63(b)(3)(A)&(4)

The proposed facility will be constructed, maintained, and operated to manage run-on and runoff during the peak discharge of a 25-year rainfall event and will prevent the off-site discharge of waste. Surface water in and around the facility will be controlled to minimize surface water running into or out of the transfer station building. Since all contaminated water will be managed in a controlled manner as discussed in this section, groundwater will be protected. The Surface Water Drainage Summary is provided in Attachment III-7 which includes the Storm Sewer Plan Sheet C-700.

2.3.2 Floor Wash Down 30TAC330.63(b)(3)

The processing area (tipping floor) is approximately 30,000 square feet and is used for waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) processing, holding, and storage. The only effluent resulting from the processing operations will be the wash water from the tipping floor cleaning process. Wash water will be directed toward the loading tunnel via a sloped tipping floor. The wash water in the loading tunnel floor will be collected in grated drains that ultimately flow to the City of Houston sanitary sewer system as described above.

The transfer station building will be connected to the City of Houston water supply to clean the concrete tipping floor and will be available for fire suppression. A spray nozzle, such as a standard wash-down gun product will be used to hose down the concrete tipping floor.

2.4 Protection of Endangered Species 30TAC330.63(b)(5)

Tetra Tech conducted a study of protected and endangered species for this project. The finding of "no impact" is described in Application Parts I&II, Section 4.6 and Attachment II-10.

3.0 SURFACE WATER DRAINAGE SUMMARY 30TAC330.63(c)

In accordance with 30 TAC 330.63(c), the drainage and floodplain criteria are summarized below.

3.1 Drainage Design 30TAC330.63(c)(1)

Facility Surface Water Drainage Report. The owner or operator of a municipal solid waste (MSW) facility shall include a statement that the facility design complies with the requirements of §330.303 of this title (relating to Surface Water Drainage for Municipal Solid Waste Facilities). Additionally, applications for landfill and compost units shall include a Surface Water Drainage Report to satisfy the requirements of Chapter 330 Subchapter G. Therefore, a Surface Water Drainage Report is not required for this Type V Transfer Station registration application.

30 TAC 330.303 Statement - The facility will be constructed, maintained, and operated to manage run-on and runoff during the peak discharge of a 25-year rainfall event and will prevent the off-site discharge of waste and feedstock material, including, but not limited to, in-process and/or processed materials. Surface water drainage in and around a facility will be controlled to minimize surface water running onto, into, and off the treatment area.

A Surface Water Drainage Summary is provided in Attachment III-7 which includes the Storm Sewer Plan Sheet C-700.

3.2 Floodplain Considerations 30TAC330.63(c)(2)

The property proposed for the transfer station is outside the 100-year floodplain according to the FEMA National Flood Hazard Layer FIRMette which was obtained directly from the authoritative NFHL web services provided by FEMA. The map was exported on July 31, 2025 and is included as Attachment II-11. The minimum ground surface elevation of the transfer station property after development will be 94 feet MSL, while the bottom of the detention pond will be at Elevation 90 feet (see Attachment III-1, Sheet C-500 Grading Plan for finished site elevations).

4.0 WASTE MANAGEMENT UNIT DESIGN 30TAC330.63(d)(1)

In accordance with 30 TAC 330.63(d), the general design and waste operations and storage are summarized in the following sections.

4.1 Waste Operations 30TAC330.63(d)(1)(A)

The Northwest Transfer Station is designed for efficient waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) processing that will not allow wastes to create nuisances or public health hazards.

The waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) will be discharged from the collection vehicles onto the concrete tipping floor. Waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) will be loaded into open-top transfer trailers that will be covered before travel to an authorized disposal or recycling facility.

As shown on Attachments III-1 and III-2, collection trucks will enter the site, weigh-in at the scale house, then proceed up the paved ramp to an area where they will back into a door along the north wall of the building and unload onto the tipping floor. Trucks will then exit the building via the egress ramp, stop at the site exit, then turn onto Sommermeyer Street. After the waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) has been processed (moved and observed for non-allowable materials), track-mounted excavators with grapples will load transfer trucks staged in the loading tunnels. After transfer trailers are full and weighed by scales in the loading tunnels, they will proceed to the tarping station (Attachment III-1, Sheet A-011) before exiting. Empty transfer trucks that are awaiting loading will line up behind the loading tunnels on the paved driveway.

4.2 Spill Prevention and Control 30TAC330. 63(d)(1)(B)

The storage and processing areas of the facility are designed to control and contain spills and contaminated water from leaving the facility. Since the entire building is enclosed with route truck doors along the north wall, the most likely significant spill will occur when the tipping floor is being washed down.

Tipping floor wash water will flow to the loading tunnel and be collected in grated drains in the tunnel floor, where it will flow through an oil/water separator and monitoring manhole before entering the City of Houston sanitary sewer pipe.

There are no uncovered containment areas at the facility; therefore, the rainfall design requirements in 30 TAC 330.63(d)(I)(B) do not apply.

4.3 Waste Storage Period 30TAC330. 63(d)(1)(C)

The daily waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) acceptance rate will range from about 500 tons per day (182,500 tons/year for a seven day per week operation) to approximately 2,000 tons per day (730,000 tons/year a seven day per week operation). The estimated waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) acceptance rate may fluctuate during the life of the facility and should not be considered a limit.

The maximum volume of waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) that will be stored at any given time is 2,000 tons. All waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) storage or holding will occur within the building. Solid waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) will be stored on average for four hours and a maximum of six hours while being processed. The solid waste will not be allowed to accumulate long enough to allow the creation of nuisances or public health hazards due to odors, fly breeding, or harborage of other vectors. Storage periods significantly above average that are caused by equipment breakdowns will only be permitted for the time required to repair or replace the malfunctioning equipment. The maximum holding time under these circumstances will not exceed 48 hours with an average holding time of 24 hours. During periods such as holidays, the solid waste may be temporarily stored at the site not to exceed 72 hours.

These maximums were developed in accordance with the requirements of the Closure Cost Estimate as further described below. These maximums will consist only of unprocessed materials on the tipping floor or waste materials being held or stored in the building in the event of equipment breakdown.

5.0 CLOSURE PLAN

5.1 Introduction

In accordance with 30 TAC 330.459 and 30 TAC 330.461, the sections below describe the steps necessary to close the facility at any point during its active life and certification of final closure. Post-closure maintenance is not required because all wastes will be removed during closure.

5.2 Closure Requirements

The transfer station site includes the transfer station building with loading tunnel, a gatehouse with two scales, an optional office/break room trailer, service drives, a fire suppression system, a oil-water separator and monitoring manhole for contaminated water, a gravity stormwater drainage system, and a perimeter fence with locking gates.

At the time of closure, the City of Houston (COH) will remove all waste, Source-Separated Recyclable Material (30 TAC 328.2(6)), and residues. There are no facility units to be dismantled or removed. The oil/water separator, monitoring manhole, and collection trenches for contaminated water will be emptied, flushed, and disinfected, but will remain intact. All material on-site, whether in process or processed, will be

evacuated to an authorized facility and the tipping floor and processing areas will be disinfected. The stormwater drainage system will remain intact and functional.

If there is evidence of a release of wastes or contaminated water to the environment, the executive director of the TCEQ may require an investigation into the release and an assessment of potential corrective actions.

In accordance with 30 TAC 330.461(a), no later than 90 days prior to the initiation of a final closure, the COH shall, through a public notice in the newspaper(s) of largest circulation in the vicinity of the facility, provide public notice for final facility closure which will include the name, address, and location of the facility, permit number, and the last day of receipt of wastes. The COH will also provide an adequate number of copies of the Closure Plan for public access and will provide written notice to the TCEQ of the intent to close the facility and place this notice in the facility's operating record.

Closure will start after the final receipt of waste or Source-Separated Recyclable Material (30 TAC 328.2(6))and will include the following tasks:

- Notice to TCEQ
- Post at least one sign at the entrance and exit showing the date of closing and the prohibition against further receipt of waste
- Install suitable barriers at all gates to prevent the unauthorized dumping of solid waste at the closed facility
- Remove wastes and waste residues for disposal at an appropriate off- site facility
- Wash the tipping floor and surfaces that have been in contact with waste, including tunnel floors, contaminated water trenches, contaminated water system, and related piping
- Disinfect tipping areas including tunnel floors contaminated water drains and related piping
- Flush and disinfect the contaminated water system and collection trenches.
- Conduct vector control procedures
- Install suitable barriers, locks, and signs stating that the facility is closed
- Repair fences and gates as needed and secure the site
- Sample/test/classify the waste not readily identifiable as garbage, trash, or refuse and dispose of appropriately
- A license Professional Engineer will conduct the site inspection and prepare a certification of closure in accordance with 30 TAC330.461

5.3 Certification of Final Facility Closure

Within 10 days following completion of all final closure activities, the COH will submit to the executive director for approval a documented certification by an independent licensed professional engineer verifying that final closure has been completed in accordance with the approved Closure Plan and 30 TAC Chapter 330, Subchapter K. The submittal to the executive director shall include all applicable documentation necessary for certification of final closure.

Within 10 days after completing final closure activities for the facility, the owner or operator will submit to the executive director a certified copy of an "affidavit to the public" in accordance with 30 TAC 330.19 and 30 TAC 330.457(g) and place a copy of the affidavit in the facility's operating record.

Following receipt of the required final closure documents, the TCEQ Region 12 office will conduct an inspection and provide a report verifying proper closure of the facility according to the approved Closure Plan and will acknowledge that the facility is deemed properly closed.

In accordance with 30 TAC 330.461(c)(3), the COH will submit a request to the TCEQ for voluntary revocation of the facility registration.

5.4 Post-Closure Care Requirements

Post-closure maintenance will not be required because all wastes will be removed during closure in accordance with 30 TAC 330.463(a)(I). In accordance with 30 TAC 330.~~7~~461(~~ad~~), the COH will request permission from the executive director to remove the certified notation from the property deed after all wastes have been removed.

6.0 CLOSURE COST ESTIMATE

At any point in its active life, the maximum volume of waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) that may be temporarily stored and processed and unprocessed combustible materials, if any, is conservatively estimated to be 2,000 tons. This maximum will consist only of waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) on the tipping floor within the building or processed waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) materials being held or stored in the building in the event of equipment breakdown. All waste storage or holding will occur within the building.

A detailed estimate in current dollars of the cost of hiring a third party that is not affiliated (as defined in 30 TAC §328.2) with the owner or operator to close the facility at any time during the active life, when the extent and manner of its operation would make closure most expensive, is included in the tables below. The cleanup and disposal costs for onsite waste material are based on a per ton measure. A calculation for the engineering costs associated with closure is included below. No dismantling of the concrete pad or drainage structures nor changes to the site elevations will occur at closure.

The estimated closure cost based on the above considerations is $130,626. A copy of the required documentation to demonstrate financial assurance shall be submitted 60 days prior to acceptance of waste. During the active life of the facility, the COH will annually adjust the closure cost estimate and the amount of financial assurance for inflation in accordance with 30 TAC, Chapter 37, Subchapter J. An increase in the closure cost estimate and the amount of financial assurance must be made if changes to the facility conditions increase the maximum cost of closure. A reduction in the closure cost estimate and the amount of financial assurance may be approved if the cost estimate exceeds the maximum cost of closure and the owner or operator has provided written notice to the TCEQ with justification. A permit modification, in accordance with 30 TAC 307.70 is required to reduce the closure cost estimate and the amount of financial assurance. Continuous financial assurance coverage for closure must be provided until all requirements of the Closure Plan are completed and the site is designated closed by the TCEQ.

Closure Cost Estimate - City of Houston Northwest Transfer Station							
Item No.	**Description**	**Quantity**	**Units**	**Unit Cost in October 2022**	**Unit Cost in 2025**	**Total**	**Notes**
A	**Administration & Engineering**						
1	Determine Closure Tasks Required	1	Lump Sum	$500	$531	$531	
2	Prepare Bid Documents (Plans & Specs)	1	Lump Sum	$2,000	$2,124	$2,124	
3	Invite & Tabulate Bids	1	Lump Sum	$2,000	$2,124	$2,124	
4	Award & Manage Contract	1	Lump Sum	$3,000	$3,186	$3,186	
B	**General Cleanup**						
1	Cleanup & Remove Wastes	2,000	Tons	$10	$11	$21,240	
2	Waste Transport & Disposal	2,000	Tons	$30	$32	$63,720	
3	Cleanup, Washdown, Water Disposal	1	Lump Sum	$5,000	$5,310	$5,310	
4	Vector Control	1	Lump Sum	$2,000	$2,124	$2,124	1 Pest Control Treatment
C	**Site Security**						
1	Locks, Signs, Fence Repairs	1	Lump Sum	$2,000	$2,124	$2,124	
D	**Certification & Finish Cleanup**						
1	Inspection & Certification of Closure	1	Lump Sum	$2,000	$2,124	$2,124	
2	Sampling, Testing, Classification of Wastes	1	Lump Sum	$3,000	$3,186	$3,186	
3	Verification Resampling & Lab Testing	1	Lump Sum	$1,000	$1,062	$1,062	
	SUBTOTAL					$108,855	
E	**Contingency**	20%				$21,771	
	TOTAL					**$130,626**	
Note:	The COH Northeast Transfer Station Registration 40330 was issued 10/6/22. Closure costs from that application were increased by TCEQ inflation factors for the **Northwest** Transfer Station Type V Registration Application as follows: Inflation from October 2022 to 2025 = (2/12)(7%) + 3.6% + 2.4% =						6.2%

7.0 ATTACHMENTS

III-1 Site Layout Plan (includes Grading Plan)

Design Drawings Cover Sheet

Sheet C-200 Demolition Plan

Sheet G-220 Construction Phasing Plan

Sheet A-011 Architectural Site Plan

Sheet C-500 Grading Plan

III-2 Waste Movement Flow Diagram

III-3 Waste Process Schematic and Views

Sheet A-013 3D Perspectives

Sheet A-111 Transfer Station – Ground Level

Sheet A-112 Transfer Station – Tipping Level

Sheet A-113 Floor Plans & Elevations – Scale House

III-4 Building Layout and Cross Sections

Sheet A-301 Building Sections – Transfer Station

Sheet A-311 Wall Sections – Transfer Station

III-5 Building Elevations and Ventilation

Sheet A-201 Exterior Elevations – Transfer Station (Ventilation Louvers)

III-6 Construction Details

Sheet C-400 – Dimension Control & Paving Plan

Sheet S-201 Transfer Station Tipping – Foundation Plan

Sheet S-402 Grade Beam and Continuous Footing Details

Sheet S-403 Retaining Wall Details

Sheet E-301 – Transfer Station – Floor Plan – Lighting

Sheet P-201 – Transfer Station – Ground Level – Sanitary

Sheet P-202 – Transfer Station – Tipping Level – Sanitary

Sheet P-501 Plumbing Details (includes oil/water separator)

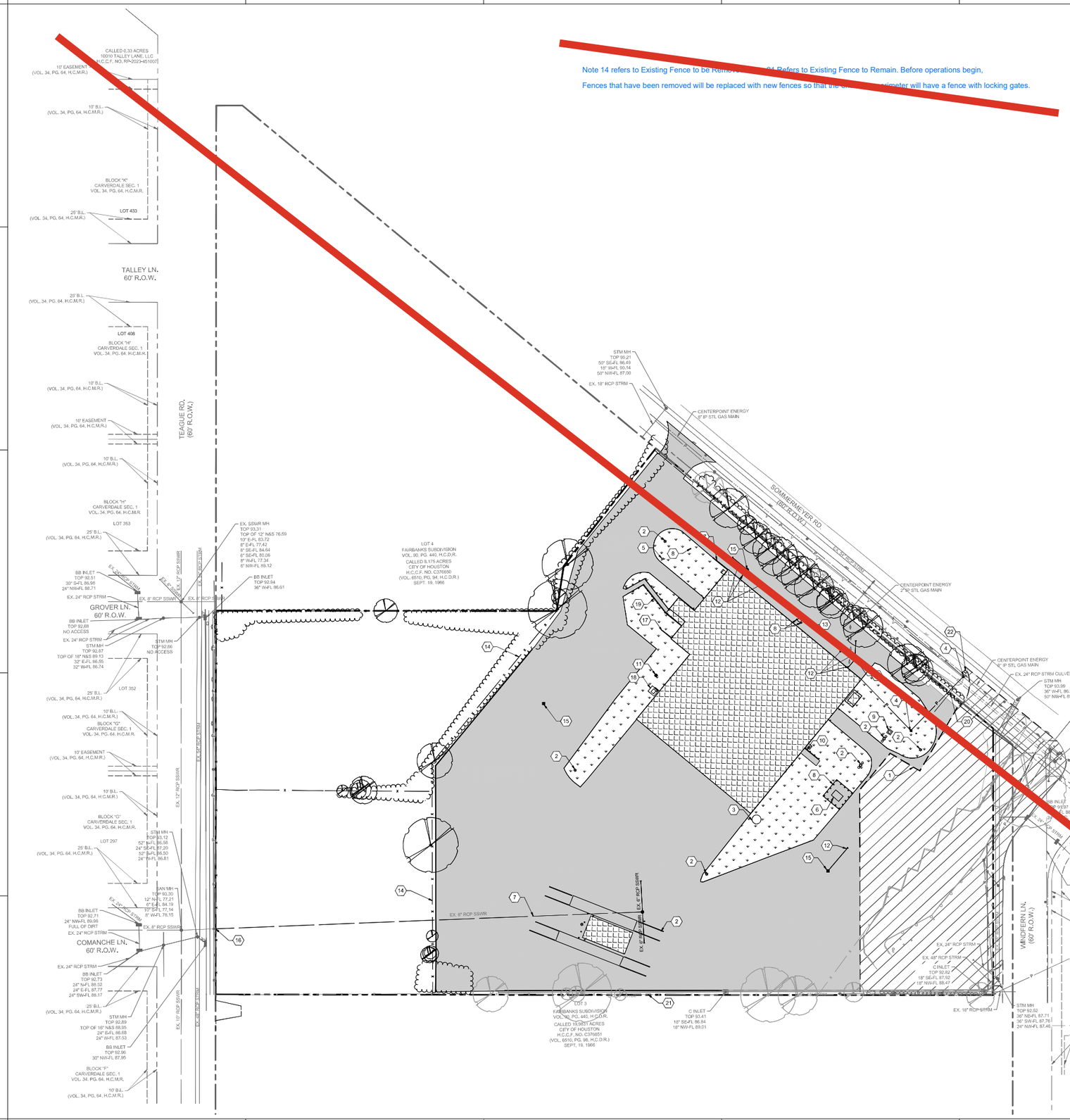
Sheet FP-101 – Fire Protection Plan

Sheet TY-011 Security Site Plan

III-7 Surface Water Drainage Design Summary

Kimley-Horn Drainage Memo

Sheet C-700



Note 14 refers to Existing Fence to be Remain... 21 Refers to Existing Fence to Remain. Before operations begin,

Fences that have been removed will be replaced with new fences so that the ... perimeter will have a fence with locking gates.

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

LEGEND	
	EXISTING PAVEMENT TO BE REMOVED. CONTRACTOR TO REMOVE TO FULL DEPTH OF PAVEMENT.
	EXISTING LANDSCAPE AREA TO BE REMOVED.
	EXISTING BUILDING TO BE REMOVED.
	EXISTING AREA NOT BE DISTURBED.
	EXISTING TREE TO BE REMOVED.
	EXISTING TREE TO REMAIN.

KEYED NOTES	
1	CONTRACTOR TO SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT TO EXPOSE REINFORCING.
2	EXISTING LIGHT POLE TO BE REMOVED.
3	EXISTING WET WELL TO BE REMOVED.
4	EXISTING POWER POLE TO BE REMOVED.
5	EXISTING SIGN TO BE REMOVED.
6	EXISTING FUEL TANK TO BE REMOVED
7	SANITARY SEWER LINE TO BE ABANDONED.
8	EXISTING BOLLARDS TO BE REMOVED.
9	EXISTING TELEPHONE BOOTH TO BE REMOVED
10	EXISTING STAIRS TO BE REMOVED.
11	EXISTING SANITARY SEWER MANHOLE TO BE REMOVED.
12	EXISTING STORM LINE TO BE REMOVED.
13	EXISTING STRUCTURE TO BE REMOVED.
14	EXISTING FENCE TO BE REMOVED
15	EXISTING STORM STRUCTURE TO BE REMOVED.
16	CONTRACTOR TO CUT AND CAP EX. SSWR LINE.
17	EXISTING WALL TO BE REMOVED.
18	EXISTING VAULT TO BE REMOVED.
19	EXISTING HANDRAIL TO BE REMOVED.
20	CONTRACTOR TO CUT AND CAP EX. WATER LINE.
21	EXISTING FENCE TO REMAIN.
22	EXISTING MAILBOX TO BE REMOVED.

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.

2. LOCATIONS OF PUBLIC AND PRIVATE UTILITIES SHOWN ARE APPROXIMATE AND MAY NOT BE COMPLETE. CONTRACTOR SHALL CALL 713-223-4567 AT LEAST 48 HOURS PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL CONTACT ANY OTHER UTILITY COMPANIES WHO DO NOT SUBSCRIBE TO THE TEXAS ONE CALL PROGRAM FOR LINE MARKINGS. THE CONTRACTOR BEAR SOLE RESPONSIBILITY FOR VERIFYING LOCATIONS OF EXISTING UTILITIES, SHOWN OR NOT SHOWN, AND FOR ANY DAMAGES DONE TO THESE FACILITIES.

3. ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS ARE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTORS RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK. IN THE VICINITY, FURTHERMORE, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGE DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

4. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.

5. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., TO THE BEST PRACTICES AND APPROVED BY THE OWNER.

6. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED PER THE PLANS.

7. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.

8. ALL DEMOLITION WORK OR CONSTRUCTION VEHICLE TRAFFIC WITHIN 10 FEET OF THE CANOPY OF ANY TREE TO BE SAVED SHALL BE CLOSELY COORDINATED WITH TREE PRESERVATION ACTIVITIES.

9. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS FOR EXCAVATION AND TRENCHING PROCEDURES. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, ETC. AS NECESSARY FOR THESE OPERATIONS, AND SHALL COMPLY WITH ALL OSHA PERFORMANCE CRITERIA.

10. CONTRACTOR TO REMOVE FULL DEPTH OF PAVEMENT (ASPHALT AND CONCRETE), REFERENCE SURVEY FOR LIMITS OF PAVEMENT.

11. CONTRACTOR TO EPOXY ALL EXPOSED REBAR.

12. CONTRACTOR IS RESPONSIBLE FOR MANAGING STORM WATER RUNOFF WITHIN THE PROJECT AREA DURING CONSTRUCTION, INCLUDING PROVIDING MEASURES FOR TEMPORARY CONVEYANCE OF FLOW WHICH MAY CONSIST OF DIVERSION SWALES OR PUMPING OF WATER TO EXISTING STORM OUTFALL LOCATIONS FROM PROJECT AREA TO MATCH EXISTING DRAINAGE PATTERNS PER THE EXISTING CONDITIONS DRAINAGE AREA MAP.

13. CONTRACTOR SHALL SUBMIT A SEQUENCING/PHASING PLAN FOR THE PROPOSED STORM SEWER MODIFICATIONS IN THE SCOPE OF THIS PROJECT TO KINLEY HORN FOR REVIEW PRIOR TO COMMENCING CONSTRUCTION. THE STORM SEWER SEQUENCING/PHASING PLAN SHALL INCLUDE THE PROPOSED MEASURES TO BE IMPLEMENTED BY CONTRACTOR FOR MANAGING STORM WATER RUNOFF WITHIN THE PROJECT AREA DURING CONSTRUCTION TO ENSURE RUNOFF IS ROUTED TO MATCH EXISTING DRAINAGE PATTERNS.

811 Know what's below. Call before you dig.

CAUTION!!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
800 Sampson St #104 Houston, TX 77003
713.868.3121

SOLID WASTE PLANNING: TETRA TECH
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Houston, TX 77042
936.202.0746

CIVIL: KIMLEY HORN
11700 Katy Fwy #800 Houston, Tx.
77079
281.920.6571

LANDSCAPE : SWA GROUP
712 Main St, 6th Floor Houston TX 77002
469.525.8731

MEP : INFRASTRUCTURE ASSOCIATES
6117 Richmond Avenue, Suite 200
Houston, Texas 77057
713.622.0120

STRUCTURAL : DALLY ASSOCIATES, INC
9800 Richmond Ave., Suite 600, Houston, TX
77042
713 337 8881

TELECOM/ SECURITY : PGA ENGINEERS
3838 N Sam Houston Pkwy E Houston,
TX 77032
832.867.2161

SEALS:

10/28/2025

STATE OF TEXAS
KYLE MOLITOR
126028
LICENSED
PROFESSIONAL ENGINEER

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER

SPONSORING DEPARTMENT

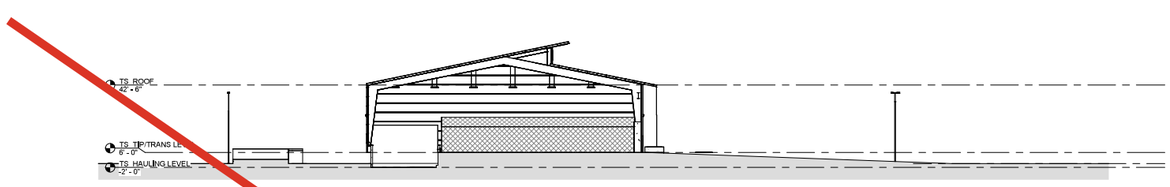
PROJECT MANAGER

DATE: 10/28/2025
WBS NO.: L-000136
SCALE: AS NOTED
DRAWN BY: SGY
CHECKED BY: KLM

SHEET TITLE:
DEMOLITION PLAN

SHEET NO.:
C-200

CITY DWG NO.:



2 SITE SECTION
SCALE: 1" = 30'-0"

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
P05	PTD, STRIPPING AS SHOWN.
S01	PREFABRICATED DEPOSITORY CHECK-IN BUILDING
S20	CONDENSING UNIT, RE MECHANICAL DRAWINGS.
S25	NEW GENERATOR, REFER TO MEP DRAWINGS

SITE PLAN GENERAL NOTES

1. SITE PLAN INDICATED GENERAL DESIGN INTENT OF ARCHITECTURAL SITE WORK, REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR SUB-SURFACE WORK AND LANDSCAPE DRAWINGS FOR OTHER WORK NOT SPECIFIED HEREIN.

2. REFER TO SHEETS G-004 & G-005 FOR TYPICAL ACCESSIBILITY STANDARDS FOR ALL DESIGN STANDARDS AND REQUIREMENTS RELATED TO ACCESSIBILITY.

3. COMPLY WITH THE REQUIREMENTS OF THE TEXAS ACCESSIBILITY STANDARDS FOR ALL DESIGN STANDARDS AND REQUIREMENTS RELATED TO ACCESSIBILITY.

4. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST POSSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE ENTRANCE.

5. ACCESSIBLE PARKING SPACES SHALL BE AT LEAST 96" WIDE AND LEVEL WITH SLOPES NOT EXCEEDING 2% IN ALL DIRECTIONS.

6. ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED BY A SIGN SHOWING THE "SYMBOL OF ACCESSIBILITY". AN ADDITIONAL "VAN ACCESSIBLE" SIGN SHALL BE MOUNTED BELOW FOR ALL VAN ACCESSIBLE SPACES.

7. SLOPES OF CURB RAMPS ALONG AN ACCESSIBLE PATH SHALL NOT EXCEED 1:20, TRANSITIONS FROM RAMPS TO TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE MIN. WIDTH OF A CURB RAMP SHALL BE 36" EXCLUSIVE OF FLARED SIDES. RAMP SURFACES SHALL BE SLIP RESISTANT.

8. CHANGES IN LEVEL UP TO 1/4" MAY BE VERTICAL WITHOUT EDGE TREATMENT. 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.

9. ALL SITE SIGNAGE SHALL COMPLY WITH ALL APPLICABLE CODES, INCLUDING ACCESSIBILITY.

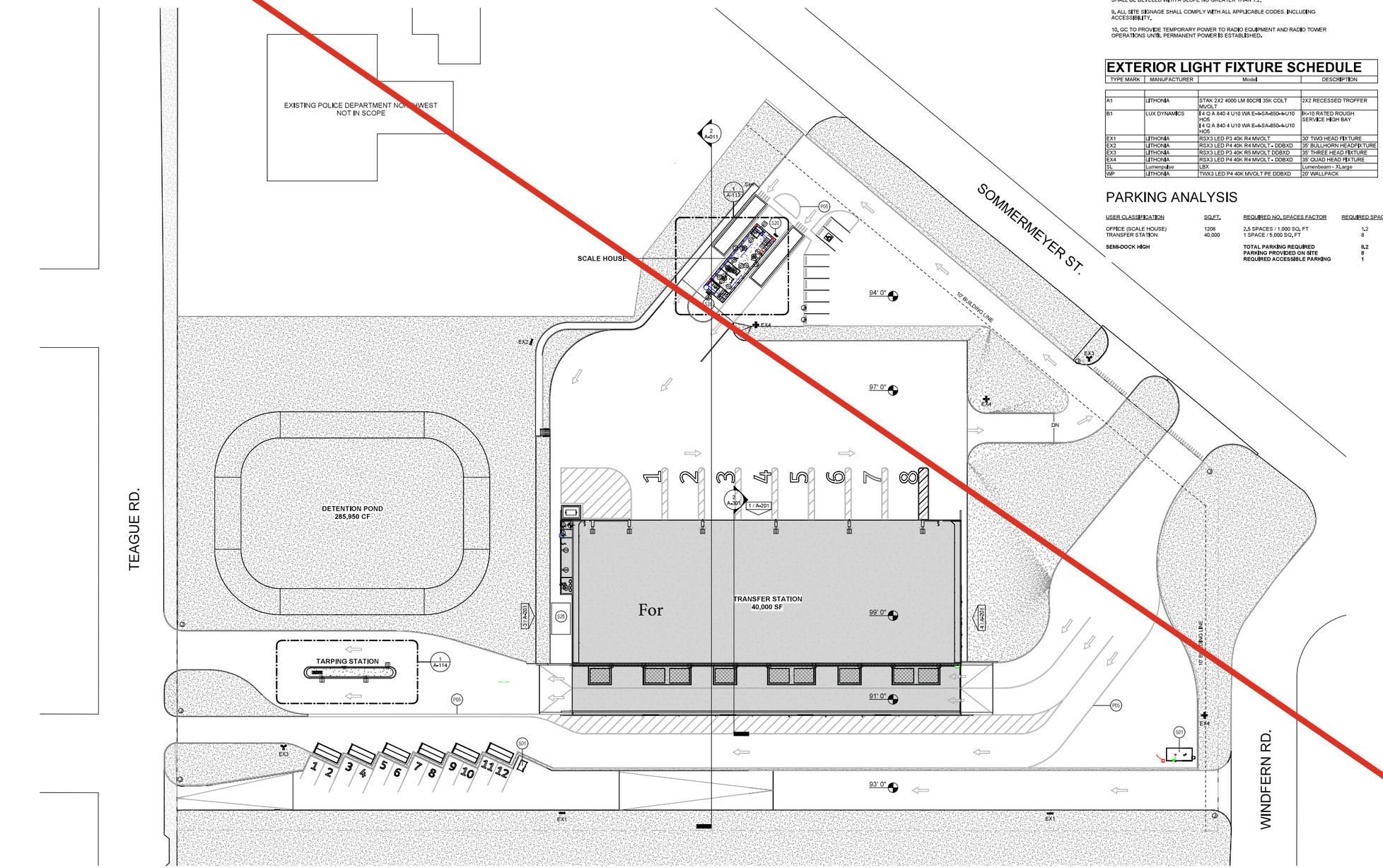
10. GC TO PROVIDE TEMPORARY POWER TO RADIO EQUIPMENT AND RADIO TOWER OPERATIONS UNTIL PERMANENT POWER IS ESTABLISHED.

EXTERIOR LIGHT FIXTURE SCHEDULE

TYPE MARK	MANUFACTURER	Model	DESCRIPTION
A1	LITHONIA	STAK 2X2 4000 LM 80CRI 35K COLT MVOLT	2X2 RECESSED TROFFER
B1	LUX DYNAMICS	14 Q A 840 4 U10 WA E-4-SA-850-4-U10 HO5 14 Q A 840 4 U10 WA E-4-SA-850-4-U10 HO5	8K+10 RATED ROUGH SERVICE HIGH BAY
EX1	LITHONIA	RSX3 LED P3 40K R4 MVOLT	30' TWO HEAD FIXTURE
EX2	LITHONIA	RSX3 LED P4 40K R4 MVOLT - DDBXD	35' BULLHORN HEADFIXTURE
EX3	LITHONIA	RSX3 LED P3 40K R5 MVOLT DDBXD	35' THREE HEAD FIXTURE
EX4	LITHONIA	RSX3 LED P4 40K R4 MVOLT - DDBXD	35' QUAD HEAD FIXTURE
SL	Lumenpulse	LBX	Lumenbeam - XLarge
WP	LITHONIA	TWX3 LED P4 40K MVOLT PE DDBXD	20' WALLPACK

PARKING ANALYSIS

USER CLASSIFICATION	SQ.FT.	REQUIRED NO. SPACES FACTOR	REQUIRED SPACES
OFFICE (SCALE HOUSE)	1206	2.5 SPACES / 1,000 SQ. FT	1.2
TRANSFER STATION	40,000	1 SPACE / 5,000 SQ. FT	8
SEMI-DOCK HIGH		**TOTAL PARKING REQUIRED**	**8.2**
		PARKING PROVIDED ON SITE	**8**
		REQUIRED ACCESSIBLE PARKING	**1**



1 SITE PLAN
SCALE: 1" = 30'-0"

N
0 30' 60'
SCALE : 1" = 30'-0"

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD

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SEALS:

THIS DOCUMENT IS RELEASED FOR THE INTERIM REVIEW PURPOSES ONLY. IT IT IS NOT TO BE USED FOR CONSTRUCTION, BIDCONSTRUCTION, FITTING, BIDDING, OR PERMITTING.
AUTHORIZED: DANIEL ORTIZ, AIA
AUTHORIZED: DANIEL ORTIZ, AIA
LICENSE NUMBER: 25004
LICENSE NUMBER: 25004
DATE:
DATE:

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER
SPONSOR/ DEPARTMENT
PROJECT MANAGER

STATE OF TEXAS
JAMES M. NORSTROM
57016
LICENSED PROFESSIONAL ENGINEER
12/01/25
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

For TCEQ Registration Only

DATE: 10/31/2025
WBS NO.: L-000136
SCALE:
DRAWN BY:
CHECKED BY:

SHEET TITLE:
ARCHITECTURAL SITE PLAN

SHEET NO.:
A-011

CITY DWG NO.:

Type V Registration Application No. 40348
Northwest Transfer Station
14421 Sommermeyer Street, Houston, Texas

Part III
Site Development Plan

Prepared for:

City of Houston General Services and Solid Waste Management Departments

611 Walker Street, Houston, Texas 77002

Prepared by:



TBPELS Registration No. F-3924

1500 CityWest Boulevard, Suite 1000, Houston, TX 77042

936-202-0746

Original December 2025 Revised March 2026



Part III

Type V Transfer Station Registration Application

Houston, TX

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1.0 INTRODUCTION

According to 30 TAC 330.63(a), the following sections include the applicable portions of Part III of a registration application that summarize the land use and zoning, adequacy of access roads and highways, and the general design of the facility to safeguard human health and the environment.

1.1 Site Location

The NorthwestNorthwest Transfer Station located at 14421 Sommermeyer Street in Houston, Texas has been an active MSW transfer station for over 20 years. The City of Houston stopped operations in 2023 and plans to demolish the building and reconstruct the building, scale-house, and pavements on the expanded 7.58-acre property(Attachment III-1). The facility is located immediately west of the intersection of Sommermeyer Street and Windfern Road.

The site is owned by the City of Houston. The mailing address for the transfer station will be:

Northwest Transfer Station, City of Houston Solid Waste Department,
14421 Sommermeyer Street, Houston, Texas 77041

The coordinates of the transfer station property are:

Latitude	29° 51’ 23.10” N
Longitude	95°32’ 18.46” W

1.2 Land Use and Zoning 30TAC330.63(a)

Land use and zoning is described in Application Parts I&II, Section 4.1.

2.0 GENERAL FACILITY DESIGN

The general facility design is discussed in the following sections in accordance with 30 TAC 330.63(b).

2.1 Facility Access

A transportation analysis was performed for the Northwest Transfer Station in accordance with 30 TAC 330.61(i).

2.1.1 Adequacy of Access Roads and Highways 30TAC330.63(a)

Access to the facility will be provided by the entrance on Sommermeyer Street. The owner will obtain required permits from appropriate governmental agencies prior to construction of the new driveway entrance and exit. Vehicular traffic to the facility will access the facility from Sommermeyer Street by way of a street crossing the railroad tracks from Hempstead Highway, which is a major thoroughfare that is four lanes with curbs.

Based on the transportation study (Attachment II-8), the roadways that will provide access to the facility have adequate capacity and structure to serve the needs of the proposed transfer station without disrupting existing traffic. Proposed entrances and exits are show on the Site Plan in the Transportation Analysis Report.

There are no proposed public roadway improvements such as turning lanes, storage lanes, etc., associated with the site entrances.

2.1.2 Fences and Access Control 30TAC330.63(b)(1)

Public access to the transfer station will be controlled by means of a perimeter fence which will encompass the entire transfer station property. Access to the transfer station will be limited to the gated entrance on Sommermeyer Street.

Site security measures are designed to prevent unauthorized persons from entering the site, to protect the facility and its equipment from possible damage caused by trespassers, and to prevent disruption of facility operations caused by unauthorized site entry. Unauthorized entry into the site is minimized by controlling access to the transfer station site with the perimeter fence and locking gates at the entrance and exit. The perimeter fence will consist of a 6-foot-high (minimum) chain-link fence. The Demolition Plan, Attachment III-1 Page 2 (Sheet C-200), shows the location of the perimeter fence.

During operating hours, site personnel will continuously monitor the entrance gate to prevent unauthorized entry to facility. Entry to the active portion of the transfer station will be restricted to designated personnel, approved waste haulers, and properly identified persons whose entry is authorized by site management.

A conspicuous sign measuring a minimum 4 feet by 4 feet will be maintained at the entrance to the facility. In letters at least 3-inches high, a sign that is readable from the entrance will state the facility name, facility type, the TCEQ registration number, hours of operation, 24-hour emergency contact phone number, and the local fire department phone number. Other signs stating rules will be posted throughout the site, including a sign listing prohibited wastes.

2.2 Waste Movement 30TAC330.63(b)(2)

2.2.1 Waste Flow Diagram 30TAC330.63(b)(2)(A)

A waste and Source-Separated Recyclable Material (30 TAC 328.2(6)) movement flow diagram indicating the processing, storage, and disposal sequence is shown on Attachment III-2. The facility will not accept or store grease, oil, or sludge. Therefore, the requirements of 330.63(b)(2)(G) do not apply. In addition to waste that is reloaded into transfer trailers destined for landfills, the facility will accept Source-Separated Recyclable Material (30 TAC 328.2(6)) for reloading and transport to material recovery facilities.

2.2.2 Waste Process Schematic View 30TAC330.63(b)(2)(B)

Schematic views indicating truck flow and waste movement are shown in Attachment III-3. These figures include the transfer station registration boundary and the traffic flow patterns.

2.2.3 Ventilation and Odor Control 30TAC330.63(b)(2)(C)

Ventilation will be provided in accordance with the current TCEQ MSW Air Permitting regulations applicable to municipal solid waste facilities (Attachment III-5). Ventilation will be provided in the transfer station building using fans located near the roof peak over 16 feet above the ground surface with a combined flow of over 45,000 cubic feet per minute (cfm).. Excessive dust and particulates that occur in the building will be controlled using water sprays, mist systems, or similar methods.

A minimum 50-foot buffer will be provided between the transfer building and the site boundaries to prevent nuisance odors from leaving the boundary of the facility.

If nuisance odors are found to be passing the facility boundary, the operator will employ odor control equipment. The facility may be required to suspend operations until the nuisance has been abated.

Solid waste and Source-Separated Recyclable Material (30 TAC 328.2(6)) processing operations will be conducted within the building to prevent nuisance odors from developing outside. All waste or Source-

Separated Recyclable Material storage or holding will occur within the building. No storage of waste materials or Source-Separated Recyclable Material will occur outside the building.

The ground surface will be graded to prevent ponding of water. Drainage structures will be maintained to prevent accumulation outside of required detention and thus minimize any nuisance odors associated with stagnant water.

2.2.4 Generalized Construction Details 30TAC330.63(b)(2)(D-F)(H)

The transfer station site includes the transfer station building with dual loading tunnels, a gatehouse with two scales, a radio equipment building, an optional office/break room trailer, service drives, a fire suppression system, a lift station for contaminated water, a stormwater drainage system, and a perimeter fence with locking-gates. The transfer station building is a split-level structure with an above-grade waste or Source-Separated Recyclable Material handling building and below-grade loading tunnels with scales. The building footprint will be approximately 38,640 square feet with concrete floors, concrete or steel push walls, steel framing, metal exterior panels, and a roof. The transfer station building contains a mechanical room, electrical room, sprinkler riser room, IT/Data room, and a storage room. Site and building layout drawings are included in Attachment III-4.

The tipping floor area will be about 30,000 square feet and is used for waste and Source-Separated Recyclable Material unloading, processing, storage, and loading. The tipping floor is shown in Attachment III-4, Sheet A-112. The only effluent resulting from the processing operations will be the wash water from tipping floor cleaning. Wash water will be directed toward the loading tunnel where it will be collected by grated drains. A lift station will be located near the loading tunnels, outside of the building and near a City of Houston sanitary sewer connection for disposal. The layout of the grated trenches and associated piping is included in Attachment III-6, Drawings P-201 through P-501. The lift station and associated piping will be cleaned as necessary.

The transfer station features a metal roof structure that covers the reinforced concrete tipping pad used for waste and Source-Separated Recyclable Material processing and storage as well as a loading tunnel for the transfer trucks. The building is enclosed on all four sides with approximate door heights of 29 feet for collection trucks and 22 feet for transfer trucks. Route trucks will enter through a series of doors along the north wall and unload onto the tipping floor. The transfer station boundary is completely enclosed by a chain-link fence.

2.2.5 Noise Pollution Control 30TAC330. 63(b)(2)(I)

The facility is designed to minimize noise pollution and visual impact to neighboring landowners and the public. Waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) processing operations will be conducted within the transfer station building with the doors facing away from Neches Street and the I-69 HOV lane.

2.3 Sanitation and Water Pollution Control 30TAC330.63(b)(3,4)

All liquids resulting from the operation of the transfer station will be disposed of in a manner that will not cause surface water or groundwater pollution. The storm water management plan designed to minimize and route storm water away from the waste processing area will provide surface water protection, thus minimizing the generation of contaminated water.

Uncontaminated water is any water that has not come into contact with waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) (referred to as storm water, clean storm water, surface water, and uncontaminated surface water). Contaminated water is any water that has contacted waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) (eg. washwater from the tipping floor).

The pavement and ground surface around the building will be graded to promote uncontaminated surface water drainage away from the building and toward the surface drainage system. Surface water that drains down the sloped roadway into the loading tunnels will be captured by grated trench drains and will not be allowed to mix with the contaminated water in the loading tunnels.

The former transfer station used a lift station connected to the City of Houston sanitary sewer system for disposal of contaminated water. In the new building, wastewater will be collected by drains in the floor of the loading tunnel (Attachment III-6, Sheet P-201) which drains by gravity into an oil/water separator, then through a sample well, then into the City sanitary sewer pipe. For the Northeast Transfer Station project, the Houston Public Works Department informed us that "the Industrial Wastewater Service does not require an industrial waste permit for the discharge of wastewater to the sanitary sewer system that is generated on-site at City-owned transfer stations." However, permitting of the oil-water separator (grit trap) may be required by the Houston Health Department, Bureau of Consumer Health before it can be operated.

Solid waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) unloading and loading operations will be conducted on the tipping floor, a concrete-paved area inside the transfer station building. Therefore, contact of storm water with waste material or Source-Separated Recyclable Material (30 TAC 328.2(6)) is minimized. The tipping floor will be washed down before changing from management of waste to Source-Separated Recyclable Material and before changing from management of Source-Separated Recyclable Material to waste. Floor wash water will not be allowed to accumulate on the tipping floor or in the tunnels but will be directed toward the loading tunnel area via a sloped tipping floor. Floor wash water in the loading tunnel floor will be collected in grated drains as described above.

2.3.1 Surface Water and Groundwater Protection 30TAC330.63(b)(3)(A)&(4)

The proposed facility will be constructed, maintained, and operated to manage run-on and runoff during the peak discharge of a 25-year rainfall event and will prevent the off-site discharge of waste. Surface water in and around the facility will be controlled to minimize surface water running into or out of the transfer station building. Since all contaminated water will be managed in a controlled manner as discussed in this section, groundwater will be protected. The Surface Water Drainage Summary is provided in Attachment III-7 which includes the Storm Sewer Plan Sheet C-700.

2.3.2 Floor Wash Down 30TAC330.63(b)(3)

The processing area (tipping floor) is approximately 30,000 square feet and is used for waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) processing, holding, and storage. The only effluent resulting from the processing operations will be the wash water from the tipping floor cleaning process. Wash water will be directed toward the loading tunnel via a sloped tipping floor. The wash water in the loading tunnel floor will be collected in grated drains that ultimately flow to the City of Houston sanitary sewer system as described above.

The transfer station building will be connected to the City of Houston water supply to clean the concrete tipping floor and will be available for fire suppression. A spray nozzle, such as a standard wash-down gun product will be used to hose down the concrete tipping floor.

2.4 Protection of Endangered Species 30TAC330.63(b)(5)

Tetra Tech conducted a study of protected and endangered species for this project. The finding of "no impact" is described in Application Parts I&II, Section 4.6 and Attachment II-10.

3.0 SURFACE WATER DRAINAGE SUMMARY 30TAC330.63(c)

In accordance with 30 TAC 330.63(c), the drainage and floodplain criteria are summarized below.

3.1 Drainage Design 30TAC330.63(c)(1)

Facility Surface Water Drainage Report. The owner or operator of a municipal solid waste (MSW) facility shall include a statement that the facility design complies with the requirements of §330.303 of this title (relating to Surface Water Drainage for Municipal Solid Waste Facilities). Additionally, applications for landfill and compost units shall include a Surface Water Drainage Report to satisfy the requirements of Chapter 330 Subchapter G. Therefore, a Surface Water Drainage Report is not required for this Type V Transfer Station registration application.

30 TAC 330.303 Statement - The facility will be constructed, maintained, and operated to manage run-on and runoff during the peak discharge of a 25-year rainfall event and will prevent the off-site discharge of waste and feedstock material, including, but not limited to, in-process and/or processed materials. Surface water drainage in and around a facility will be controlled to minimize surface water running onto, into, and off the treatment area.

A Surface Water Drainage Summary is provided in Attachment III-7 which includes the Storm Sewer Plan Sheet C-700.

3.2 Floodplain Considerations 30TAC330.63(c)(2)

The property proposed for the transfer station is outside the 100-year floodplain according to the FEMA National Flood Hazard Layer FIRMette which was obtained directly from the authoritative NFHL web services provided by FEMA. The map was exported on July 31, 2025 and is included as Attachment II-11. The minimum ground surface elevation of the transfer station property after development will be 94 feet MSL, while the bottom of the detention pond will be at Elevation 90 feet (see Attachment III-1, Sheet C-500 Grading Plan for finished site elevations).

4.0 WASTE MANAGEMENT UNIT DESIGN 30TAC330.63(d)(1)

In accordance with 30 TAC 330.63(d), the general design and waste operations and storage are summarized in the following sections.

4.1 Waste Operations 30TAC330.63(d)(1)(A)

The Northwest Transfer Station is designed for efficient waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) processing that will not allow wastes to create nuisances or public health hazards.

The waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) will be discharged from the collection vehicles onto the concrete tipping floor. Waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) will be loaded into open-top transfer trailers that will be covered before travel to an authorized disposal or recycling facility.

As shown on Attachments III-1 and III-2, collection trucks will enter the site, weigh-in at the scale house, then proceed up the paved ramp to an area where they will back into a door along the north wall of the building and unload onto the tipping floor. Trucks will then exit the building via the egress ramp, stop at the site exit, then turn onto Sommermeyer Street. After the waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) has been processed (moved and observed for non-allowable materials), track-mounted excavators with grapples will load transfer trucks staged in the loading tunnels. After transfer trailers are full and weighed by scales in the loading tunnels, they will proceed to the tarping station (Attachment III-1, Sheet A-011) before exiting. Empty transfer trucks that are awaiting loading will line up behind the loading tunnels on the paved driveway.

4.2 Spill Prevention and Control 30TAC330. 63(d)(1)(B)

The storage and processing areas of the facility are designed to control and contain spills and contaminated water from leaving the facility. Since the entire building is enclosed with route truck doors along the north wall, the most likely significant spill will occur when the tipping floor is being washed down.

Tipping floor wash water will flow to the loading tunnel and be collected in grated drains in the tunnel floor, where it will flow through an oil/water separator and monitoring manhole before entering the City of Houston sanitary sewer pipe.

There are no uncovered containment areas at the facility; therefore, the rainfall design requirements in 30 TAC 330.63(d)(I)(B) do not apply.

4.3 Waste Storage Period 30TAC330. 63(d)(1)(C)

The daily waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) acceptance rate will range from about 500 tons per day (182,500 tons/year for a seven day per week operation) to approximately 2,000 tons per day (730,000 tons/year a seven day per week operation). The estimated waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) acceptance rate may fluctuate during the life of the facility and should not be considered a limit.

The maximum volume of waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) that will be stored at any given time is 2,000 tons. All waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) storage or holding will occur within the building. Solid waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) will be stored on average for four hours and a maximum of six hours while being processed. The solid waste will not be allowed to accumulate long enough to allow the creation of nuisances or public health hazards due to odors, fly breeding, or harborage of other vectors. Storage periods significantly above average that are caused by equipment breakdowns will only be permitted for the time required to repair or replace the malfunctioning equipment. The maximum holding time under these circumstances will not exceed 48 hours with an average holding time of 24 hours. During periods such as holidays, the solid waste may be temporarily stored at the site not to exceed 72 hours.

These maximums were developed in accordance with the requirements of the Closure Cost Estimate as further described below. These maximums will consist only of unprocessed materials on the tipping floor or waste materials being held or stored in the building in the event of equipment breakdown.

5.0 CLOSURE PLAN

5.1 Introduction

In accordance with 30 TAC 330.459 and 30 TAC 330.461, the sections below describe the steps necessary to close the facility at any point during its active life and certification of final closure. Post-closure maintenance is not required because all wastes will be removed during closure.

5.2 Closure Requirements

The transfer station site includes the transfer station building with loading tunnel, a gatehouse with two scales, an optional office/break room trailer, service drives, a fire suppression system, a oil-water separator and monitoring manhole for contaminated water, a gravity stormwater drainage system, and a perimeter fence with locking gates.

At the time of closure, the City of Houston (COH) will remove all waste, Source-Separated Recyclable Material (30 TAC 328.2(6)), and residues. There are no facility units to be dismantled or removed. The oil/water separator, monitoring manhole, and collection trenches for contaminated water will be emptied, flushed, and disinfected, but will remain intact. All material on-site, whether in process or processed, will be

evacuated to an authorized facility and the tipping floor and processing areas will be disinfected. The stormwater drainage system will remain intact and functional.

If there is evidence of a release of wastes or contaminated water to the environment, the executive director of the TCEQ may require an investigation into the release and an assessment of potential corrective actions.

In accordance with 30 TAC 330.461(a), no later than 90 days prior to the initiation of a final closure, the COH shall, through a public notice in the newspaper(s) of largest circulation in the vicinity of the facility, provide public notice for final facility closure which will include the name, address, and location of the facility, permit number, and the last day of receipt of wastes. The COH will also provide an adequate number of copies of the Closure Plan for public access and will provide written notice to the TCEQ of the intent to close the facility and place this notice in the facility's operating record.

Closure will start after the final receipt of waste or Source-Separated Recyclable Material (30 TAC 328.2(6))and will include the following tasks:

- Notice to TCEQ
- Post at least one sign at the entrance and exit showing the date of closing and the prohibition against further receipt of waste
- Install suitable barriers at all gates to prevent the unauthorized dumping of solid waste at the closed facility
- Remove wastes and waste residues for disposal at an appropriate off- site facility
- Wash the tipping floor and surfaces that have been in contact with waste, including tunnel floors, contaminated water trenches, contaminated water system, and related piping
- Disinfect tipping areas including tunnel floors contaminated water drains and related piping
- Flush and disinfect the contaminated water system and collection trenches.
- Conduct vector control procedures
- Install suitable barriers, locks, and signs stating that the facility is closed
- Repair fences and gates as needed and secure the site
- Sample/test/classify the waste not readily identifiable as garbage, trash, or refuse and dispose of appropriately
- A license Professional Engineer will conduct the site inspection and prepare a certification of closure in accordance with 30 TAC330.461

5.3 Certification of Final Facility Closure

Within 10 days following completion of all final closure activities, the COH will submit to the executive director for approval a documented certification by an independent licensed professional engineer verifying that final closure has been completed in accordance with the approved Closure Plan and 30 TAC Chapter 330, Subchapter K. The submittal to the executive director shall include all applicable documentation necessary for certification of final closure.

Within 10 days after completing final closure activities for the facility, the owner or operator will submit to the executive director a certified copy of an "affidavit to the public" in accordance with 30 TAC 330.19 and 30 TAC 330.457(g) and place a copy of the affidavit in the facility's operating record.

Following receipt of the required final closure documents, the TCEQ Region 12 office will conduct an inspection and provide a report verifying proper closure of the facility according to the approved Closure Plan and will acknowledge that the facility is deemed properly closed.

In accordance with 30 TAC 330.461(c)(3), the COH will submit a request to the TCEQ for voluntary revocation of the facility registration.

5.4 Post-Closure Care Requirements

Post-closure maintenance will not be required because all wastes will be removed during closure in accordance with 30 TAC 330.463(a)(I). In accordance with 30 TAC 330.461(d), the COH will request permission from the executive director to remove the certified notation from the property deed after all wastes have been removed.

6.0 CLOSURE COST ESTIMATE

At any point in its active life, the maximum volume of waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) that may be temporarily stored and processed and unprocessed combustible materials, if any, is conservatively estimated to be 2,000 tons. This maximum will consist only of waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) on the tipping floor within the building or processed waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) materials being held or stored in the building in the event of equipment breakdown. All waste storage or holding will occur within the building.

A detailed estimate in current dollars of the cost of hiring a third party that is not affiliated (as defined in 30 TAC §328.2) with the owner or operator to close the facility at any time during the active life, when the extent and manner of its operation would make closure most expensive, is included in the tables below. The cleanup and disposal costs for onsite waste material are based on a per ton measure. A calculation for the engineering costs associated with closure is included below. No dismantling of the concrete pad or drainage structures nor changes to the site elevations will occur at closure.

The estimated closure cost based on the above considerations is $130,626. A copy of the required documentation to demonstrate financial assurance shall be submitted 60 days prior to acceptance of waste. During the active life of the facility, the COH will annually adjust the closure cost estimate and the amount of financial assurance for inflation in accordance with 30 TAC, Chapter 37, Subchapter J. An increase in the closure cost estimate and the amount of financial assurance must be made if changes to the facility conditions increase the maximum cost of closure. A reduction in the closure cost estimate and the amount of financial assurance may be approved if the cost estimate exceeds the maximum cost of closure and the owner or operator has provided written notice to the TCEQ with justification. A permit modification, in accordance with 30 TAC 307.70 is required to reduce the closure cost estimate and the amount of financial assurance. Continuous financial assurance coverage for closure must be provided until all requirements of the Closure Plan are completed and the site is designated closed by the TCEQ.

Closure Cost Estimate - City of Houston Northwest Transfer Station							
Item No.	**Description**	**Quantity**	**Units**	**Unit Cost in October 2022**	**Unit Cost in 2025**	**Total**	**Notes**
A	**Administration & Engineering**						
1	Determine Closure Tasks Required	1	Lump Sum	$500	$531	$531	
2	Prepare Bid Documents (Plans & Specs)	1	Lump Sum	$2,000	$2,124	$2,124	
3	Invite & Tabulate Bids	1	Lump Sum	$2,000	$2,124	$2,124	
4	Award & Manage Contract	1	Lump Sum	$3,000	$3,186	$3,186	
B	**General Cleanup**						
1	Cleanup & Remove Wastes	2,000	Tons	$10	$11	$21,240	
2	Waste Transport & Disposal	2,000	Tons	$30	$32	$63,720	
3	Cleanup, Washdown, Water Disposal	1	Lump Sum	$5,000	$5,310	$5,310	
4	Vector Control	1	Lump Sum	$2,000	$2,124	$2,124	1 Pest Control Treatment
C	**Site Security**						
1	Locks, Signs, Fence Repairs	1	Lump Sum	$2,000	$2,124	$2,124	
D	**Certification & Finish Cleanup**						
1	Inspection & Certification of Closure	1	Lump Sum	$2,000	$2,124	$2,124	
2	Sampling, Testing, Classification of Wastes	1	Lump Sum	$3,000	$3,186	$3,186	
3	Verification Resampling & Lab Testing	1	Lump Sum	$1,000	$1,062	$1,062	
	SUBTOTAL					$108,855	
E	**Contingency**	20%				$21,771	
	TOTAL					**$130,626**	
Note:	The COH Northeast Transfer Station Registration 40330 was issued 10/6/22. Closure costs from that application were increased by TCEQ inflation factors for the **Northwest** Transfer Station Type V Registration Application as follows: Inflation from October 2022 to 2025 = (2/12)(7%) + 3.6% + 2.4% =						6.2%

7.0 ATTACHMENTS

III-1 Site Layout Plan (includes Grading Plan)

Design Drawings Cover Sheet

Sheet C-200 Demolition Plan

Sheet G-220 Construction Phasing Plan

Sheet A-011 Architectural Site Plan

Sheet C-500 Grading Plan

III-2 Waste Movement Flow Diagram

III-3 Waste Process Schematic and Views

Sheet A-013 3D Perspectives

Sheet A-111 Transfer Station – Ground Level

Sheet A-112 Transfer Station – Tipping Level

Sheet A-113 Floor Plans & Elevations – Scale House

III-4 Building Layout and Cross Sections

Sheet A-301 Building Sections – Transfer Station

Sheet A-311 Wall Sections – Transfer Station

III-5 Building Elevations and Ventilation

Sheet A-201 Exterior Elevations – Transfer Station (Ventilation Louvers)

III-6 Construction Details

Sheet C-400 – Dimension Control & Paving Plan

Sheet S-201 Transfer Station Tipping – Foundation Plan

Sheet S-402 Grade Beam and Continuous Footing Details

Sheet S-403 Retaining Wall Details

Sheet E-301 – Transfer Station – Floor Plan – Lighting

Sheet P-201 – Transfer Station – Ground Level – Sanitary

Sheet P-202 – Transfer Station – Tipping Level – Sanitary

Sheet P-501 Plumbing Details (includes oil/water separator)

Sheet FP-101 – Fire Protection Plan

Sheet TY-011 Security Site Plan

III-7 Surface Water Drainage Design Summary

Kimley-Horn Drainage Memo

Sheet C-700

Attachment III–1 Site Layout Plan

COH - Houston Permitting Dept. SEAL:

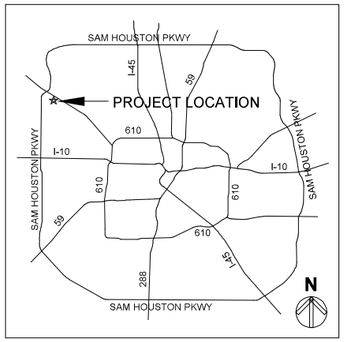
CITY OF HOUSTON

GENERAL SERVICES DEPARTMENT

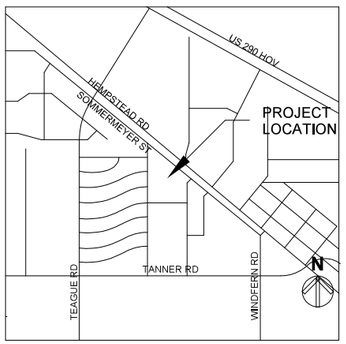
NORTHWEST TRANSFER STATION

14421 SOMMERMEYER ST, HOUSTON, TX 77041

WBS NO.: L-000136



LOCATION MAP



VICINITY MAP

MAYOR
JOHN WHITMIRE

CONTROLLER
CHRIS HOLLINS

DISTRICT COUNCIL MEMBERS

AMY PECK
DISTRICT A

TARSHA JACKSON
DISTRICT B

ABBIE KAMIN
DISTRICT C

CAROLYN EVANS-SHABAZZ
DISTRICT D

FRED FLICKINGER
DISTRICT E

TIFFANY THOMAS
DISTRICT F

MARY NAN HUFFMAN
DISTRICT G

MARIO CASTILLO
DISTRICT H

JOAQUIN MARTINEZ
DISTRICT I

EDWARD POLLARD
DISTRICT J

MARTHA CASTEX-TATUM
DISTRICT K

COUNCIL MEMBERS AT-LARGE

JULIAN RAMIREZ
POSITION 1

WILLIE DAVIS
POSITION 2

TWILA CARTER
POSITION 3

LETITIA PLUMMER
POSITION 4

SALLIE ALCORN
POSITION 5

CONTRACTING AUTHORITY
FOR THE CITY OF HOUSTON

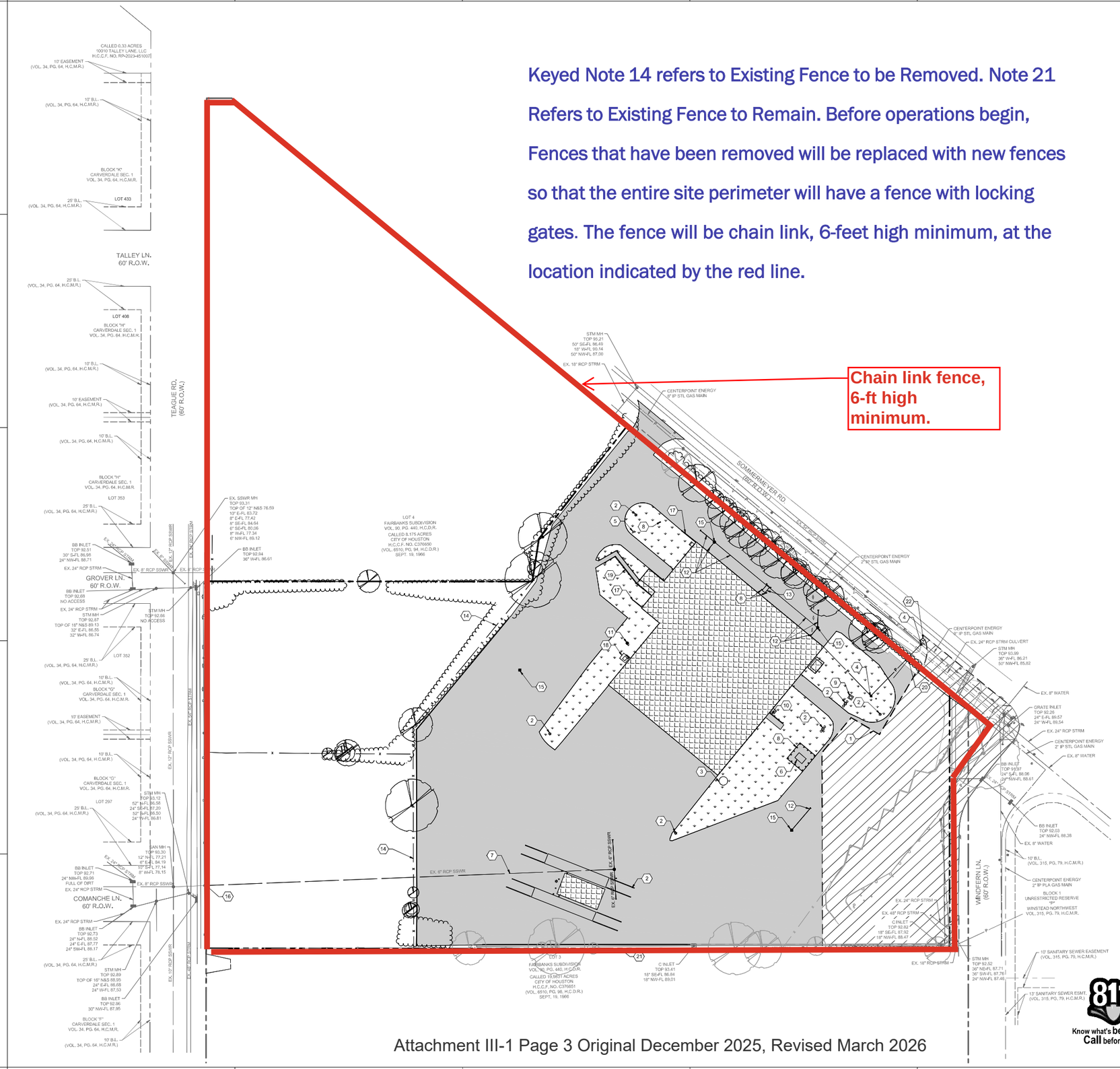
GENERAL SERVICES DEPARTMENT
C. J. MESSIAH, Jr., DIRECTOR

SOLID WASTE MANAGEMENT
LARIUS HASSEN

PROGRAM / PROJECT MANAGER
GENERAL SERVICES DEPARTMENT

Attachment III-1 Page 2 Original December 2025, Revised March 2026

Keyed Note 14 refers to Existing Fence to be Removed. Note 21 Refers to Existing Fence to Remain. Before operations begin, Fences that have been removed will be replaced with new fences so that the entire site perimeter will have a fence with locking gates. The fence will be chain link, 6-feet high minimum, at the location indicated by the red line.



NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

LEGEND	
	EXISTING PAVEMENT TO BE REMOVED. CONTRACTOR TO REMOVE TO FULL DEPTH OF PAVEMENT.
	EXISTING LANDSCAPE AREA TO BE REMOVED.
	EXISTING BUILDING TO BE REMOVED.
	EXISTING AREA NOT BE DISTURBED.
	EXISTING TREE TO BE REMOVED.
	EXISTING TREE TO REMAIN.

KEYED NOTES	
1	CONTRACTOR TO SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT TO EXPOSE REINFORCING.
2	EXISTING LIGHT POLE TO BE REMOVED.
3	EXISTING WET WELL TO BE REMOVED.
4	EXISTING POWER POLE TO BE REMOVED.
5	EXISTING SIGN TO BE REMOVED.
6	EXISTING FUEL TANK TO BE REMOVED
7	SANITARY SEWER LINE TO BE ABANDONED.
8	EXISTING BOLLARDS TO BE REMOVED.
9	EXISTING TELEPHONE BOOTH TO BE REMOVED
10	EXISTING STAIRS TO BE REMOVED.
11	EXISTING SANITARY SEWER MANHOLE TO BE REMOVED.
12	EXISTING STORM LINE TO BE REMOVED.
13	EXISTING STRUCTURE TO BE REMOVED.
14	EXISTING FENCE TO BE REMOVED
15	EXISTING STORM STRUCTURE TO BE REMOVED.
16	CONTRACTOR TO CUT AND CAP EX. SSWR LINE.
17	EXISTING WALL TO BE REMOVED.
18	EXISTING VAULT TO BE REMOVED.
19	EXISTING HANDRAIL TO BE REMOVED.
20	CONTRACTOR TO CUT AND CAP EX. WATER LINE.
21	EXISTING FENCE TO REMAIN.
22	EXISTING MAILBOX TO BE REMOVED.

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.

2. LOCATIONS OF PUBLIC AND PRIVATE UTILITIES SHOWN ARE APPROXIMATE AND MAY NOT BE COMPLETE. CONTRACTOR SHALL CALL 713-223-4567 AT LEAST 48 HOURS PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL CONTACT ANY OTHER UTILITY COMPANIES WHO DO NOT SUBSCRIBE TO THE TEXAS ONE CALL PROGRAM FOR LINE MARKINGS. THE CONTRACTOR BEAR SOLE RESPONSIBILITY FOR VERIFYING LOCATIONS OF EXISTING UTILITIES SHOWN OR NOT SHOWN, AND FOR ANY DAMAGES DONE TO THESE FACILITIES.

3. ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS ARE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEES IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTORS RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK, IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGE DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES. NOR FOR TEMPORARY BRACING AND SHORING OF SAME, IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

4. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.

5. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., TO THE BEST PRACTICES AND APPROVED BY THE OWNER.

6. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED PER THE PLANS.

7. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.

8. ALL DEMOLITION WORK ON CONSTRUCTION VEHICLE TRAFFIC WITHIN 10 FEET OF THE CANOPY OF ANY TREE TO BE SAVED SHALL BE CLOSELY COORDINATED WITH TREE PRESERVATION ACTIVITIES.

9. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS FOR EXCAVATION AND TRENCHING PROCEDURES. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, ETC. AS NECESSARY FOR THESE OPERATIONS, AND SHALL COMPLY WITH ALL OSHA PERFORMANCE CRITERIA.

10. CONTRACTOR TO REMOVE FULL DEPTH OF PAVEMENT (ASPHALT AND CONCRETE). REFERENCE SURVEY FOR LIMITS OF PAVEMENT.

11. CONTRACTOR TO EPOXY ALL EXPOSED REBAR.

12. CONTRACTOR IS RESPONSIBLE FOR MANAGING STORM WATER RUNOFF WITHIN THE PROJECT AREA DURING CONSTRUCTION, INCLUDING PROVIDING MEASURES FOR TEMPORARY CONVEYANCE OF FLOW WHICH MAY CONSIST OF DIVERSION SWALES OR PUMPING OF WATER TO EXISTING STORM OUTFALL LOCATIONS FROM PROJECT AREA TO MATCH EXISTING DRAINAGE PATTERNS PER THE EXISTING CONDITIONS DRAINAGE AREA MAP.

13. CONTRACTOR SHALL SUBMIT A SEQUENCING/PHASING PLAN FOR THE PROPOSED STORM SEWER MODIFICATIONS IN THE SCOPE OF THIS PROJECT TO KIMLEY-HORN FOR REVIEW PRIOR TO COMMENCING CONSTRUCTION. THE STORM SEWER SEQUENCING/PHASING PLAN SHALL INCLUDE THE PROPOSED MEASURES TO BE IMPLEMENTED BY CONTRACTOR FOR MANAGING STORM WATER RUNOFF WITHIN THE PROJECT AREA DURING CONSTRUCTION TO ENSURE RUNOFF IS ROUTED TO MATCH THE EXISTING DRAINAGE PATTERNS.

811 Know what's below. Call before you dig.

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
800 Sampson St #104 Houston, TX 77003
713.868.3121

SOLID WASTE PLANNING: TETRA TECH
1500 CityWest Boulevard, Suite 1000
Houston, TX 77042
936.202.0746

CIVIL: KIMLEY HORN
11700 Katy Fwy #800 Houston, Tx. 77079
281.920.6571

LANDSCAPE : SWA GROUP
712 Main St, 6th Floor Houston TX 77002
469.525.8731

MEP : INFRASTRUCTURE ASSOCIATES
6117 Richmond Avenue, Suite 200
Houston, Texas 77057
713.622.0120

STRUCTURAL : DALLY ASSOCIATES, INC
9800 Richmond Ave., Suite 600, Houston, TX 77042
713 337 8881

TELECOM/ SECURITY : PGA ENGINEERS
3838 N Sam Houston Pkwy E Houston, TX 77032
832.867.2161

STATE OF TEXAS
JAMES M. NORSTROM
57016
LICENSED PROFESSIONAL ENGINEER
02/25/26
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER | SPONSORING DEPARTMENT | PROJECT MANAGER

DATE: 10/28/2025
WBS NO.: L-000136
SCALE: AS NOTED
DRAWN BY: SGY
CHECKED BY: KLM

SHEET TITLE:
DEMOLITION PLAN

SHEET NO.:
C-200

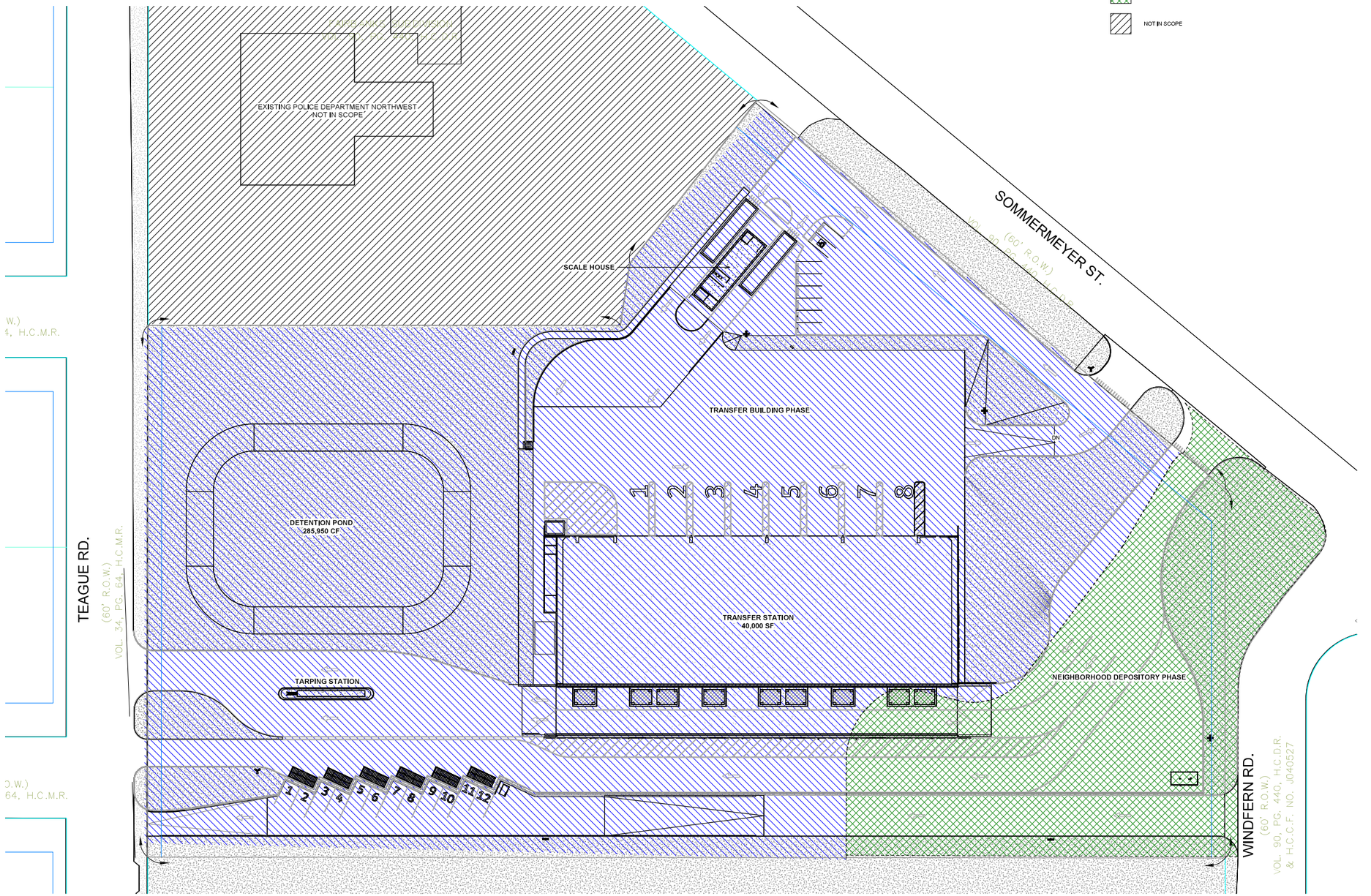
CITY DWG NO.:

PHASING PLAN GENERAL NOTES

1. DEMOLITION IS TO BE PHASED BY CONTRACTOR IN CONJUNCTION WITH OWNER. CONTRACTOR TO MAINTAIN POWER, WATER/SEWER, AND ELECTRICITY THROUGHOUT SITE DURING CONSTRUCTION.
2. CONDITIONS ARE DRAWN AS THEY ARE BELIEVED TO BE. THERE MAY BE VARIANCES IN FIELD CONDITIONS. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO FINAL PRICING.
3. NEIGHBORHOOD DEPOSITORY TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION. CONSTRUCTION OF NEW DEPOSITORY TO BE COMPLETE PRIOR TO DEMOLITION OF EXISTING NEIGHBORHOOD DEPOSITORY. PHASE CONSTRUCTION TO ALLOW CUTOVER FROM EXISTING DEPOSITORY TO NEW DEPOSITORY.

PHASING LEGEND

- PHASE 1 - TRANSFER BUILDING
- PHASE 2 - NEIGHBORHOOD DEPOSITORY
- NOT IN SCOPE



1 CONSTRUCTION PHASING PLAN
SCALE: 1" = 30'-0"

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
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832.867.2161

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER _____ SPONSOR/USER DEPARTMENT _____

PROJECT MANAGER _____

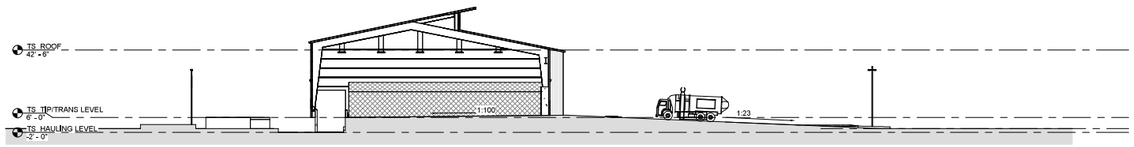
STATE OF TEXAS
JAMES M. NORSTROM
57016
LICENSED
PROFESSIONAL ENGINEER
02/25/26
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924
For TCEQ Registration Only

DATE: 10/31/2025
WBS NO.: L-000136
SCALE:
DRAWN BY:
CHECKED BY:

SHEET TITLE:
CONSTRUCTION PHASING PLAN

SHEET NO.:
G-220

CITY DWG NO.:



2 SITE SECTION
SCALE: 1" = 30'-0"

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
P05	PTD, STRIPPING AS SHOWN.
S01	PREFABRICATED DEPOSITORY CHECK-IN BUILDING
S02	FUELING
S03	RECYCLING BINS
S04	CARDBOARD COMPACTORS
S05	EV CHARGING
S25	NEW GENERATOR. REFER TO MEP DRAWINGS

SITE PLAN GENERAL NOTES

1. SITE PLAN INDICATED GENERAL DESIGN INTENT OF ARCHITECTURAL SITE WORK. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR SUB-SURFACE WORK AND LANDSCAPE DRAWINGS FOR OTHER WORK NOT SPECIFIED HEREIN.

2. REFER TO SHEETS G-004 & G-005 FOR TYPICAL ACCESSIBILITY STANDARDS FOR ALL DESIGN STANDARDS AND REQUIREMENTS RELATED TO ACCESSIBILITY.

3. COMPLY WITH THE REQUIREMENTS OF THE TEXAS ACCESSIBILITY STANDARDS FOR ALL DESIGN STANDARDS AND REQUIREMENTS RELATED TO ACCESSIBILITY.

4. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST POSSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE ENTRANCE.

5. ACCESSIBLE PARKING SPACES SHALL BE AT LEAST 96" WIDE AND LEVEL WITH SLOPES NOT EXCEEDING 2% IN ALL DIRECTIONS.

6. ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED BY A SIGN SHOWING THE "SYMBOL OF ACCESSIBILITY", AN ADDITIONAL "VAN ACCESSIBLE" SIGN SHALL BE MOUNTED BELOW FOR ALL VAN ACCESSIBLE SPACES.

7. SLOPES OF CURB RAMPS ALONG AN ACCESSIBLE PATH SHALL NOT EXCEED 1:20. TRANSITIONS FROM RAMPS TO TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE MIN. WIDTH OF A CURB RAMP SHALL BE 36" EXCLUSIVE OF FLARED SIDES. RAMP SURFACES SHALL BE SLIP RESISTANT.

8. CHANGES IN LEVEL UP TO 1/4" MAY BE VERTICAL WITHOUT EDGE TREATMENT. 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.

9. ALL SITE SIGNAGE SHALL COMPLY WITH ALL APPLICABLE CODES, INCLUDING ACCESSIBILITY.

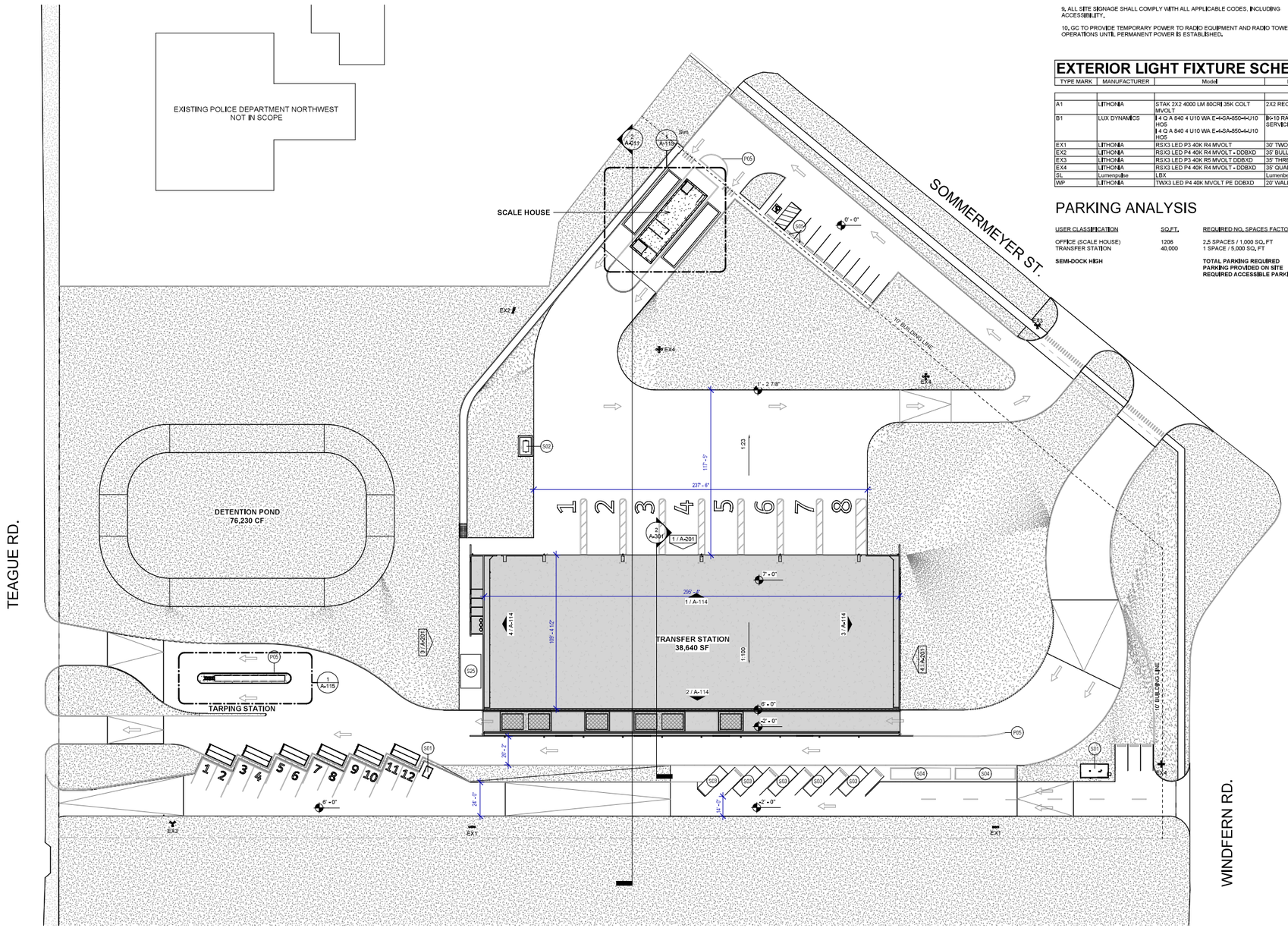
10. GC TO PROVIDE TEMPORARY POWER TO RADIO EQUIPMENT AND RADIO TOWER OPERATIONS UNTIL PERMANENT POWER IS ESTABLISHED.

EXTERIOR LIGHT FIXTURE SCHEDULE

TYPE MARK	MANUFACTURER	Model	DESCRIPTION
A1	LITHONIA	STAK 2X2 4000 LM 80CRI 35K COLT MVOLT	2X2 RECESSED TROFFER
B1	LUX DYNAMICS	4 Q A 840 4 U10 WA E-HSA-850-4-U10 HOS 4 Q A 840 4 U10 WA E-HSA-850-4-U10 HOS	IN-10 RATED ROUGH SERVICE HIGH BAY
EX1	LITHONIA	RSX3 LED P3 40K R4 MVOLT	30' TWO HEAD FIXTURE
EX2	LITHONIA	RSX3 LED P4 40K R4 MVOLT - DDBXD	35' BULLHORN HEADFIXTURE
EX3	LITHONIA	RSX3 LED P3 40K R5 MVOLT DDBXD	35' THREE HEAD FIXTURE
EX4	LITHONIA	RSX3 LED P4 40K R4 MVOLT - DDBXD	35' QUAD HEAD FIXTURE
SL	Lumenpulse	LBX	Lumenbeam - XLarge
WP	LITHONIA	TWX3 LED P4 40K MVOLT PE DDBXD	20' WALLPACK

PARKING ANALYSIS

USER CLASSIFICATION	SQ.FT.	REQUIRED NO. SPACES FACTOR	REQUIRED SPACES
OFFICE (SCALE HOUSE)	1206	2.5 SPACES / 1,000 SQ. FT	1.2
TRANSFER STATION	40,000	1 SPACE / 5,000 SQ. FT	8
SEMI-DOCK HIGH		**TOTAL PARKING REQUIRED**	**8.2**
		PARKING PROVIDED ON SITE	**9**
		REQUIRED ACCESSIBLE PARKING	**1**



1 SITE PLAN
SCALE: 1" = 30'-0"

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD
01/09/2025	SD VE

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
800 Sampson St #104 Houston, TX 77003
713.868.3121

SOLID WASTE PLANNING: TETRA TECH
1500 CityWest Boulevard, Suite 1000
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77079
281.920.6571

LANDSCAPE : SWA GROUP
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MEP : INFRASTRUCTURE ASSOCIATES
6117 Richmond Avenue, Suite 200
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713.622.0120

STRUCTURAL : DALLY ASSOCIATES, INC
9800 Richmond Ave., Suite 600, Houston, TX 77042
713 337 8881

TELECOM/ SECURITY : PGA ENGINEERS
3838 N Sam Houston Pkwy E Houston, TX 77032
832.867.2161

SEALS:

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AUTHORIZED: DANIEL ORTIZ, AIA

LICENSE NUMBER: 25004

DATE:

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER / SPONSORING DEPARTMENT

PROJECT MANAGER

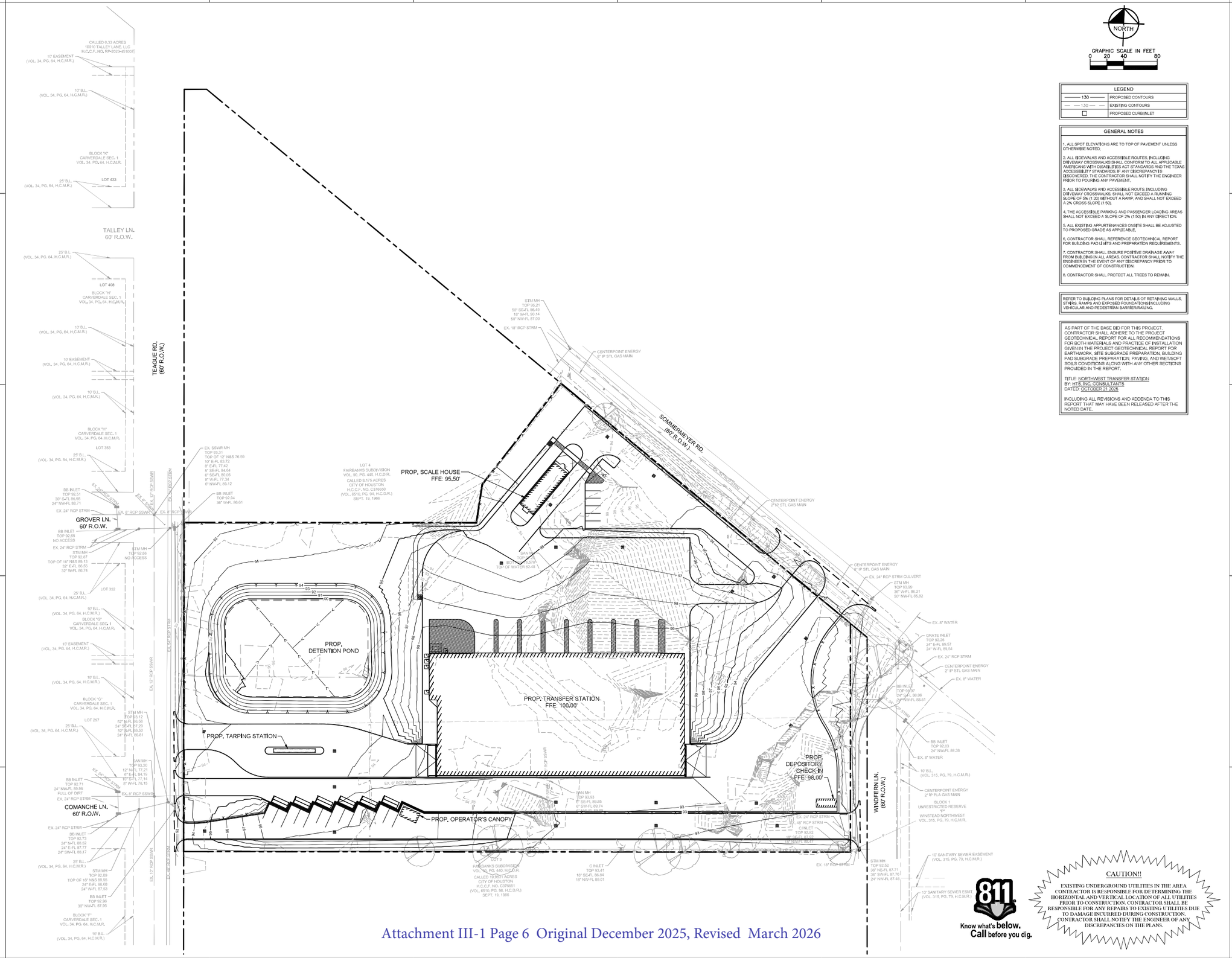
STATE OF TEXAS
JAMES M. NORSTROM
57016
LICENSED PROFESSIONAL ENGINEER
02/25/26
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

DATE: 10/31/2025
WBS NO.: L-000136
SCALE:
DRAWN BY:
CHECKED BY:

SHEET TITLE:
ARCHITECTURAL SITE PLAN

SHEET NO.:
A-011

CITY DWG NO.:



NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

LEGEND	
130	PROPOSED CONTOURS
130	EXISTING CONTOURS
	PROPOSED CURB INLET

GENERAL NOTES

1. ALL SPOT ELEVATIONS ARE TO TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
2. ALL SIDEWALKS AND ACCESSIBLE ROUTES, INCLUDING DRIVEWAY CROSSWALKS SHALL CONFORM TO ALL APPLICABLE AMERICANS WITH DISABILITIES ACT STANDARDS AND THE TEXAS ACCESSIBILITY STANDARDS. IF ANY DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO POURING ANY PAVEMENT.
3. ALL SIDEWALKS AND ACCESSIBLE ROUTS, INCLUDING DRIVEWAY CROSSWALKS, SHALL NOT EXCEED A RUNNING SLOPE OF 5% (1:20) WITHOUT A RAMP, AND SHALL NOT EXCEED A 2% CROSS SLOPE (1:50).
4. THE ACCESSIBLE PARKING AND PASSENGER LOADING AREAS SHALL NOT EXCEED A SLOPE OF 2% (1:50) IN ANY DIRECTION.
5. ALL EXISTING APPURTENANCES ONSITE SHALL BE ADJUSTED TO PROPOSED GRADE AS APPLICABLE.
6. CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT FOR BUILDING PAD LIMITS AND PREPARATION REQUIREMENTS.
7. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING IN ALL AREAS. CONTRACTOR SHALL NOTIFY THE ENGINEER IN THE EVENT OF ANY DISCREPANCY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
8. CONTRACTOR SHALL PROTECT ALL TREES TO REMAIN.

REFER TO BUILDING PLANS FOR DETAILS OF RETAINING WALLS, STAIRS, RAMPS AND EXPOSED FOUNDATIONS INCLUDING VEHICULAR AND PEDESTRIAN BARRIER/RAILING.

AS PART OF THE BASE BID FOR THIS PROJECT, CONTRACTOR SHALL ADHERE TO THE PROJECT GEOTECHNICAL REPORT FOR ALL RECOMMENDATIONS FOR BOTH MATERIALS AND PRACTICE OF INSTALLATION GIVEN IN THE PROJECT GEOTECHNICAL REPORT FOR EARTHWORK, SITE SUBGRADE PREPARATION, BUILDING PAD SUBGRADE PREPARATION, PAVING, AND WET/SOFT SOILS CONDITIONS ALONG WITH ANY OTHER SECTIONS PROVIDED IN THE REPORT.

TITLE: NORTHWEST TRANSFER STATION
BY: HTS, INC. CONSULTANTS
DATED: OCTOBER 21, 2025

INCLUDING ALL REVISIONS AND ADDENDA TO THIS REPORT THAT MAY HAVE BEEN RELEASED AFTER THE NOTED DATE.

811 Know what's below. Call before you dig.

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

Attachment III-1 Page 6 Original December 2025, Revised March 2026

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
800 Sampson St #104 Houston, TX 77003
713.868.3121

SOLID WASTE PLANNING: TETRA TECH
1500 CityWest Boulevard, Suite 1000
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936.202.0746

CIVIL: KIMLEY HORN
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281.920.6571

LANDSCAPE : SWA GROUP
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MEP : INFRASTRUCTURE ASSOCIATES
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77042
713 337 8881

TELECOM/ SECURITY : PGA ENGINEERS
3838 N Sam Houston Pkwy E Houston,
TX 77032
832.867.2161

SEALS:

PRELIMINARY
FOR REVIEW ONLY NOT FOR CONSTRUCTION OR PERMIT PURPOSES.
Kimley»Horn
Engineer: KYLE MOLITOR
P.E. No. 126028
Date 10/28/2025

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER | SPONSORING DEPARTMENT

PROJECT MANAGER

STATE OF TEXAS
JAMES M. NORSTROM
57016
PROFESSIONAL ENGINEER
02/28/26
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

For TCEQ Registration Only

DATE: 10/28/2025
WBS NO.: L-000136
SCALE: AS NOTED
DRAWN BY: SGY
CHECKED BY: KLM

SHEET TITLE:
GRADING PLAN

SHEET NO.:
C-500

CITY DWG NO.:

Attachment III-3 Waste Process Schematic View



1 NORTHEAST PERSPECTIVE
SCALE: 1 1/2" = 1'-0"



2 NORTHEAST PERSPECTIVE - BUILDING
SCALE: 1 1/2" = 1'-0"

ISSUE LOG

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PROJECT MANAGER

STATE OF TEXAS
JAMES M. NORSTROM
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10/25/26
TETRA TECH, INC
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DRAWN BY:
CHECKED BY:

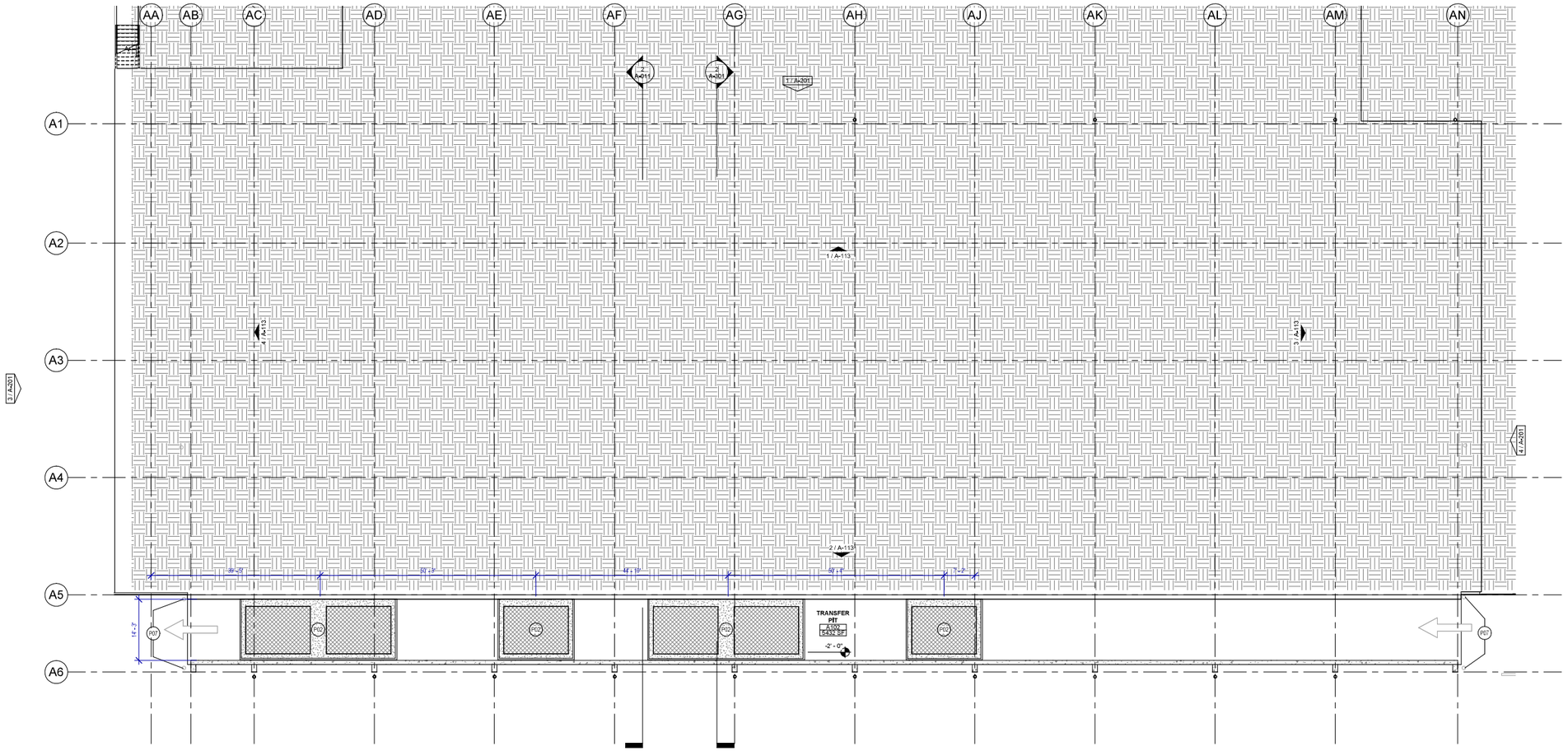
SHEET TITLE:
3D PERSPECTIVES

SHEET NO.:
A-013

CITY DWG NO.:

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
P02	SURVIVOR PT SERIES PIT-TYPE TRUCK SCALE, 10'X50' WITH 100TONS CAPACITY (60TONS CLC).
P07	CONCRETE FILLED BOLLARD, SEE PLAN DETAILS.



1 TRANSFER STATION - GROUND LEVEL
SCALE: 3/32" = 1'-0"

N

0 30' 60'
SCALE : 1" = 30'-0"

ISSUE LOG

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10/31/2025	SD

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STATE OF TEXAS
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57016
PROFESSIONAL LICENSED ENGINEER
10/29/25
TETRA TECH, INC
FIRM REGISTRATION NO. F-3924

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WBS NO.: L-000136
SCALE:
DRAWN BY:
CHECKED BY:

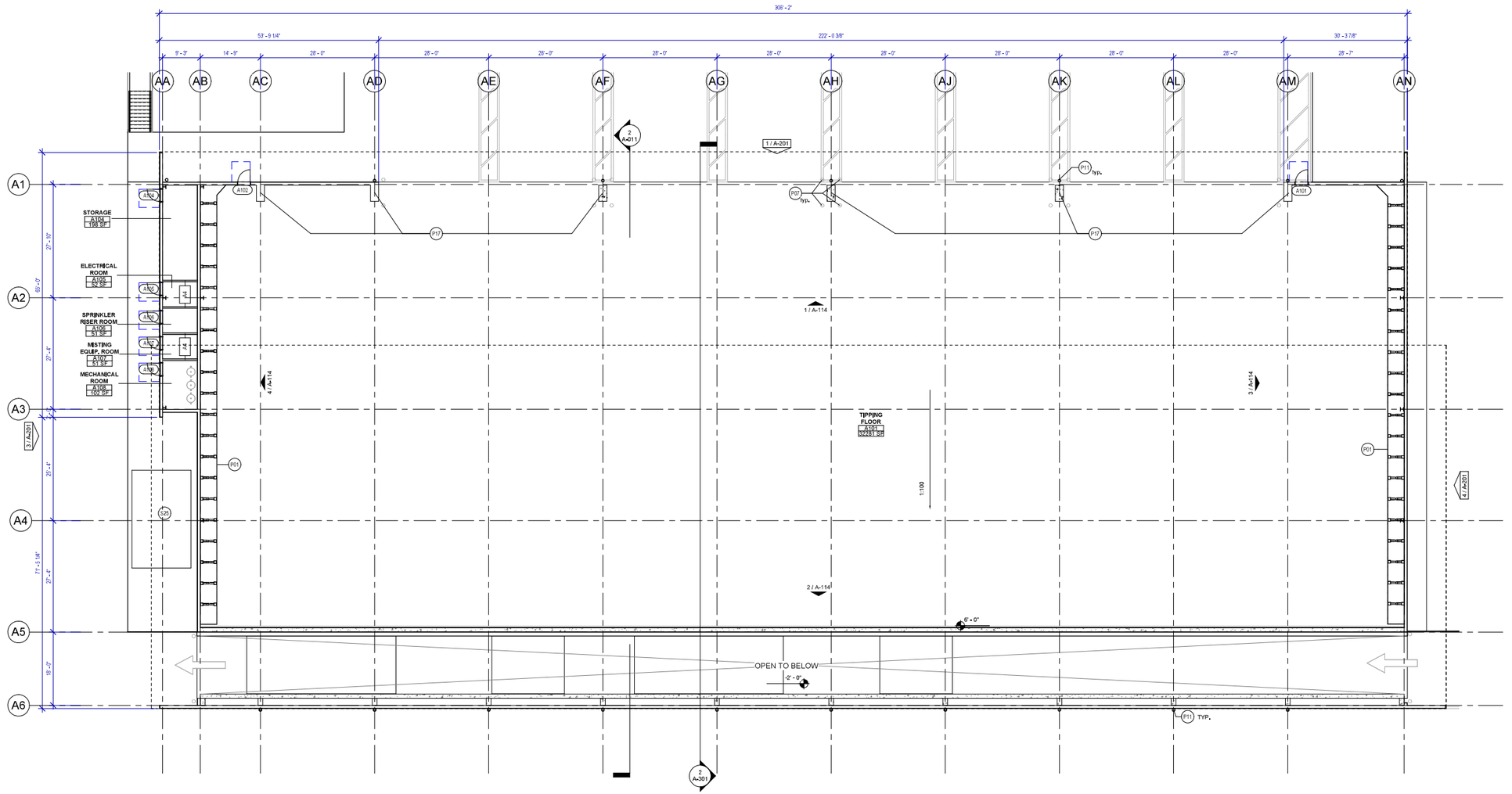
SHEET TITLE:
TRANSFER STATION - GROUND LEVEL

SHEET NO.:
A-111

CITY DWG NO.:

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
P01	STEEL PLATED, STEEL REINFORCED PUSH-WALL, RE: STRUCTURAL.
P07	CONCRETE FILLED BOLLARD. SEE PLAN DETAILS.
P11	DOWNSPOUT, RE:ELEVATIONS AND DETAILS.
P17	CONCRETE ENCASED COLUMNS
S25	NEW GENERATOR, REFER TO MEP DRAWINGS



1 TRANSFER FLOOR - TIPPING LEVEL
SCALE: 3/32" = 1'-0"

N
0 8" 16" 24'
SCALE : 3/32" = 1'-0"

ISSUE LOG

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10/31/2025	SD
01/09/2025	SD VE

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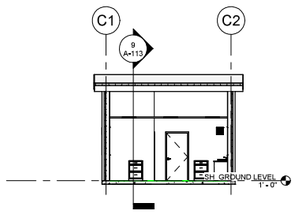
STATE OF TEXAS
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10/29/25
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DATE: 10/31/2025
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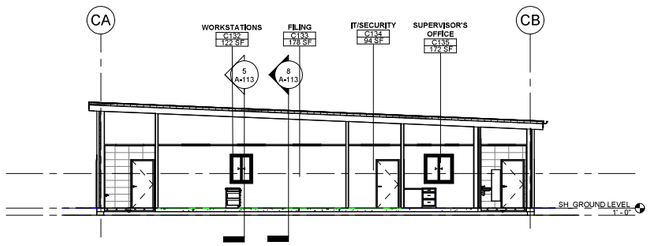
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TRANSFER STATION - TIPPING LEVEL

SHEET NO.:
A-112

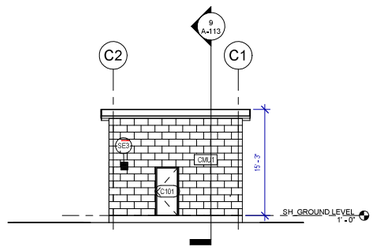
CITY DWG NO.:



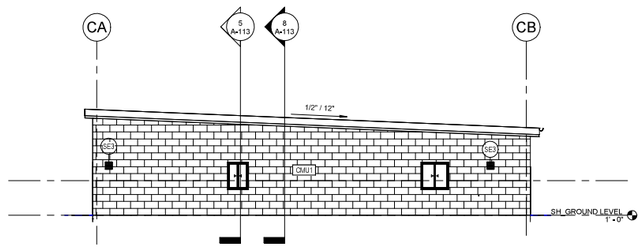
8 SCALE HOUSE - BUILDING SECTION A
SCALE: 1/8" = 1'-0"



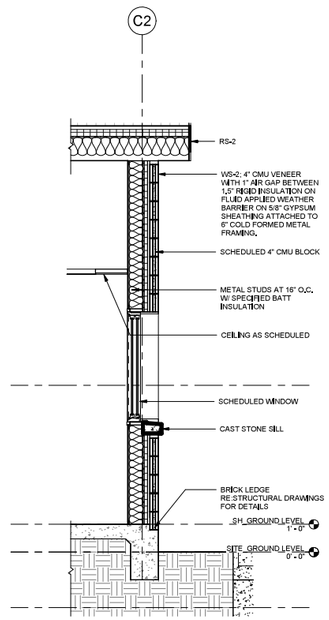
9 SCALE HOUSE - BUILDING SECTION B
SCALE: 1/8" = 1'-0"



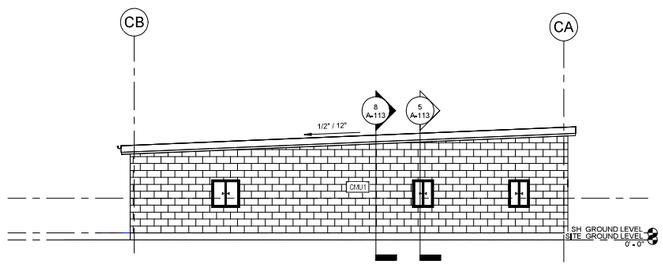
6 SCALE HOUSE - EAST ELEVATION
SCALE: 1/8" = 1'-0"



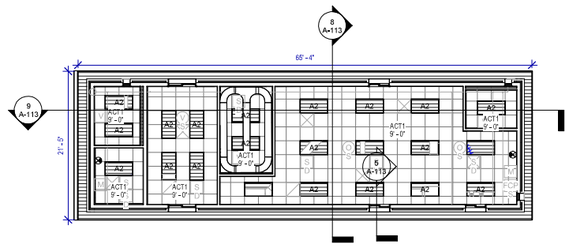
7 SCALE HOUSE - NORTH ELEVATION
SCALE: 1/8" = 1'-0"



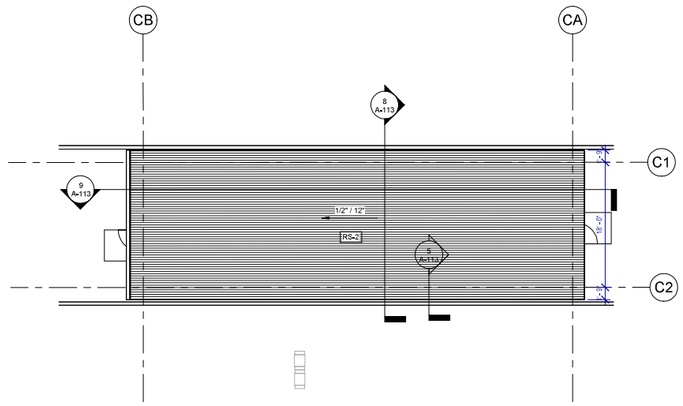
5 SCALE HOUSE - WALL SECTION
SCALE: 1/2" = 1'-0"



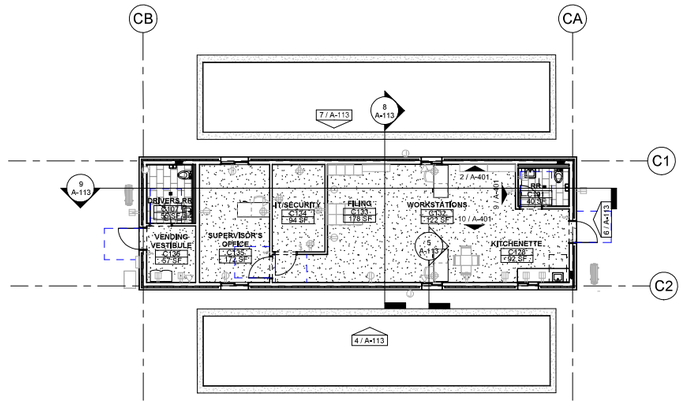
4 SCALE HOUSE - SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



2 REFLECTED CEILING PLAN - SCALE HOUSE
SCALE: 1/8" = 1'-0"



3 SCALE HOUSE ROOF PLAN
SCALE: 1/8" = 1'-0"



1 SCALE HOUSE PLAN
SCALE: 1/8" = 1'-0"

SCALE : 1/8" = 1'-0"

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL	DESCRIPTION
A2	LITHONIA	STAK 2X4 4000LM 80 CRI 35K COLT MVOLT	2X4 RECESSED TROFFER

CEILING SCHEDULE

TYPE	MANUFACTURER	CEILING GRID	CEILING TILE	SIZE	NRC RATING	NOTES
	Panel Built					
ACT1			ACT1			

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
SE3	12"X12" LOUVER MODEL, RE:MEP DRAWINGS

FLOOR PLAN GENERAL NOTES

1. REFER TO SHEET G-002 FOR KEY TO SYMBOLS LEGEND AND ABBREVIATIONS
2. REFER TO G-111- G-121 FOR PARTITION TYPES AND TYPICAL DETAILS
3. REFER TO A-551 FOR CASEWORK TYPES AND DETAILS.
4. ALL LOCATIONS OF ELECTRICAL DEVICES, FIRE ALARM DEVICES, SECURITY DEVICES AND ACCESS PANELS SHALL BE VERIFIED IN THE FIELD WITH THE ARCHITECT PRIOR TO ROUGH-IN.
5. PARTITIONS LOCATED ON COLUMN GRIDS SHALL BE LOCATED CENTERLINE OF THE COL. GRID UNLESS OTHERWISE DIMENSIONED. ALL DIMENSIONS ARE TAKEN FROM FACE OF STUD UNLESS OTHERWISE NOTED.
6. DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE LOCATED 4" FROM THE FINISHED WALL OR PARTITION TO OUTSIDE OF FINISHED JAMB.
7. THE CONTRACTOR SHALL PROVIDE AND INSTALL CONTINOUS COMPRESSIBLE JOINT FILLER AT THE INTERIOR SLAB ON GRADE PERIMETER AND AT INTERVAL COLUMN BLOCK-OUTS; 1/2" WIDTH.
8. ANY SLAB GRADE JOINTS, INCLUDING SLAB PERIMETER JOINTS, SHALL BE FILLED WITH SEALANT; SEALANT COLOR TO BE VERIFIED WITH ARCHITECT FOR ALL JOINT EXPOSED TO VIEW.

RCP GENERAL NOTES

1.REFER TO G-003 FOR LIGHTING GENERAL NOTES AND FLOOR PLAN SCHEDULE SHEETS A-540'S FOR FINISH MATERIAL SCHEDULE.
2. ALL EXPOSED CONDUIT, HVAC DUCTS , HVAC DIFFUSERS, ROOF ASSEMBLIES AND STRUCTURAL TO BE PAINTED (COLOR TO BE DETERMINED), UNLESS NOTED OTHERWISE.
3. ALL EXPOSED CONDUIT AND WIRING SUPPLYING CEILING FIXTURES SHALL BE GANGED TOGETHER IN A CLEAN AND ORGANIZED MANNER AND RUN PERPENDICULAR AND/OR PARALLEL TO ROOF FRAMING.
4. ALL LIGHT FIXTURES NOT LOCATED BY DIMENSIONS ARE TO BE CENTERED IN CEILING TILES WHERE FIXTURE ARE LOCATED IN GB-1, CENTER FIXTURE IN ROOM UNLESS NOTED.
5. ALL FIRE SPRINKLER HEADS LOCATED IN ATC AND APC SHALL BE CENTERED WITHIN TILE.
6. V.I.F, ALL FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
7. REFER TO MEP DRAWINGS FOR EGRESS / EMERGENCY LIGHTING.

ISSUE LOG

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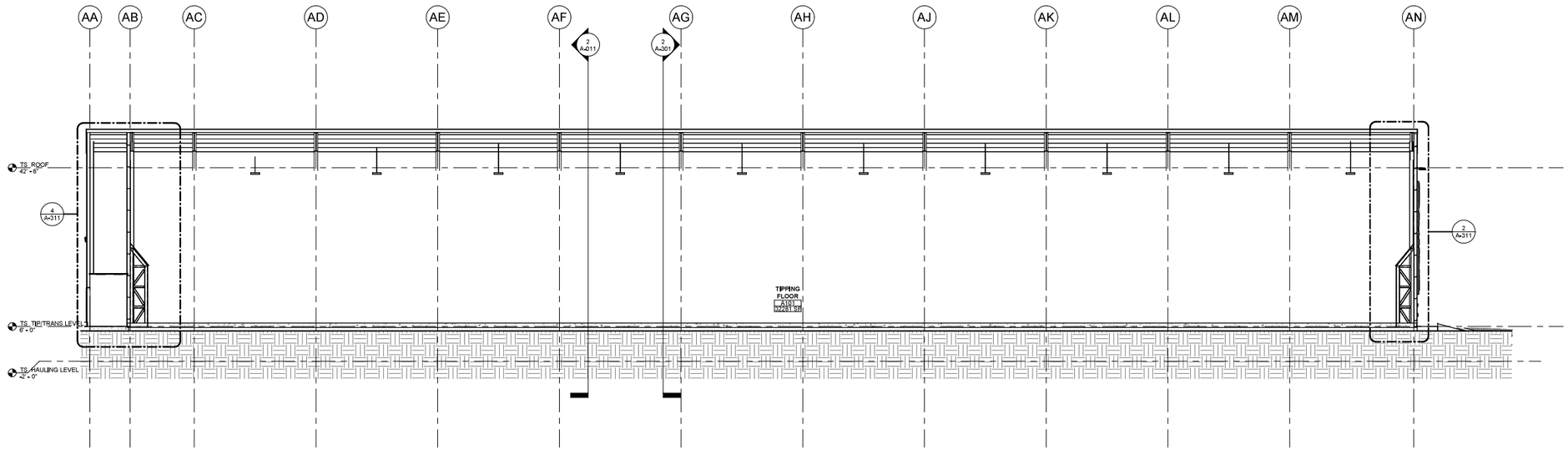
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CHECKED BY:

SHEET TITLE:
FLOOR PLANS AND ELEVATIONS - SCALE HOUSE

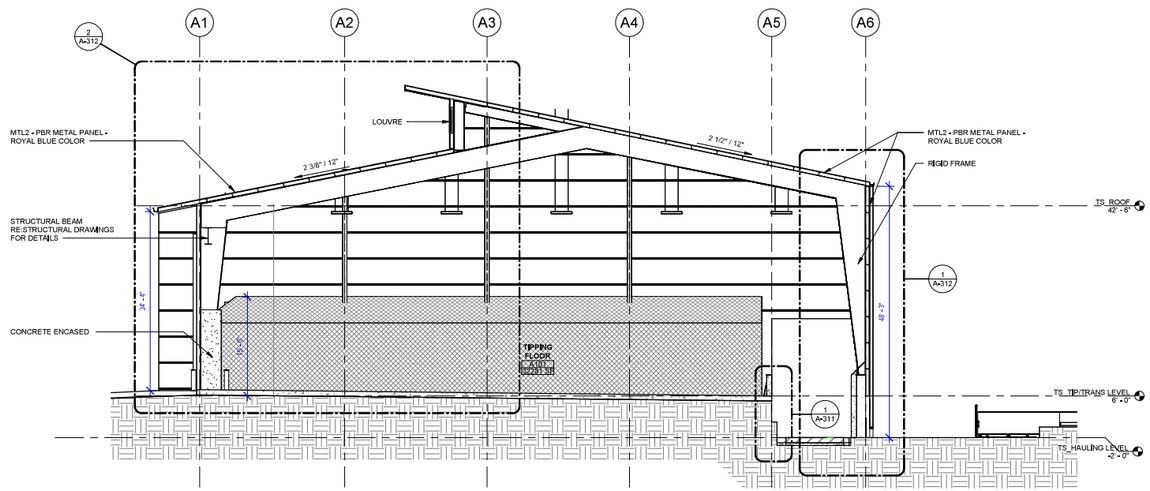
SHEET NO.:
A-113

CITY DWG NO.:

Attachment III–4 Building Layout and Cross Sections



1 PEMB BUILDING SECTION B
SCALE: 3/32" = 1'-0"



2 BUILDING SECTION A
SCALE: 3/32" = 1'-0"

0 8" 16" 24"
SCALE : 3/32" = 1'-0"

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TELECOM/ SECURITY : PGA ENGINEERS
3838 N Sam Houston Pkwy E Houston, TX 77032
832.867.2161

SEALS:

THIS DOCUMENT IS RELEASED FOR INTERIM REVIEW PURPOSES ONLY. IT IS NOT TO BE USED FOR CONSTRUCTION OR BIDDING.

AUTHORIZED: DANIEL ORTIZ, AIA

LICENSE NUMBER: 25004

DATE:

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER: SPONSORING DEPARTMENT:

PROJECT MANAGER:

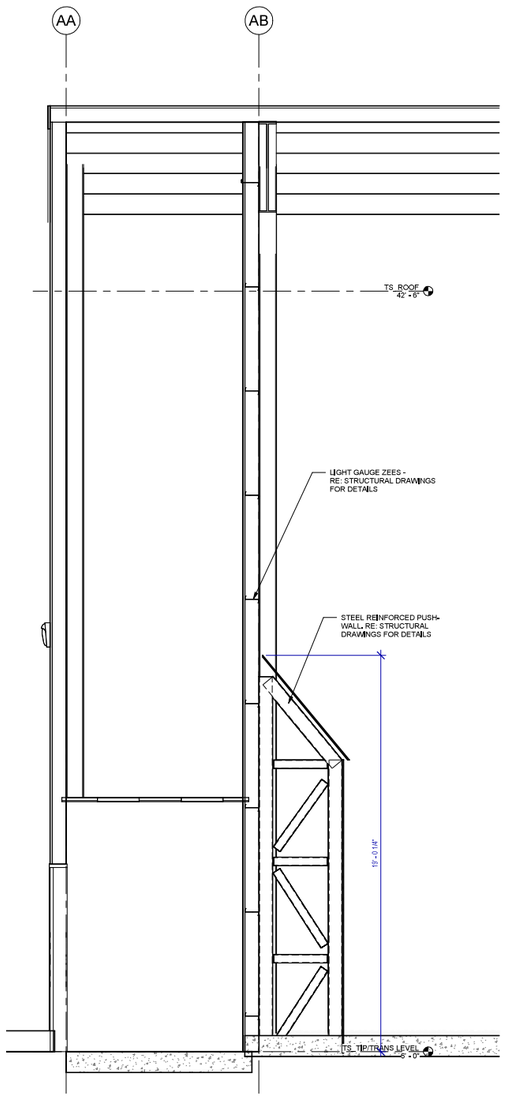
STATE OF TEXAS
JAMES M. NORSTROM
57016
PROFESSIONAL ENGINEER
LICENSED
10/25/26
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

DATE: 10/31/2025
WBS NO.: L-000136
SCALE:
DRAWN BY:
CHECKED BY:

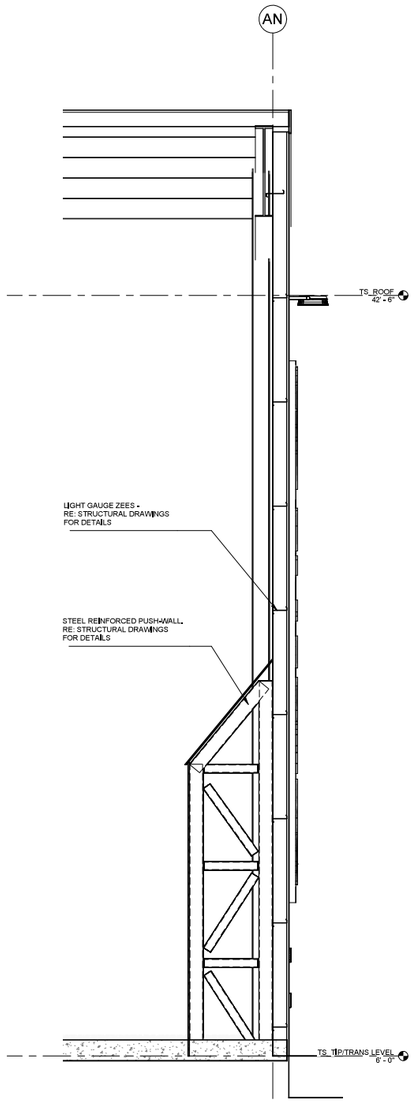
SHEET TITLE:
BUILDING SECTIONS - TRANSFER STATION

SHEET NO.:
A-301

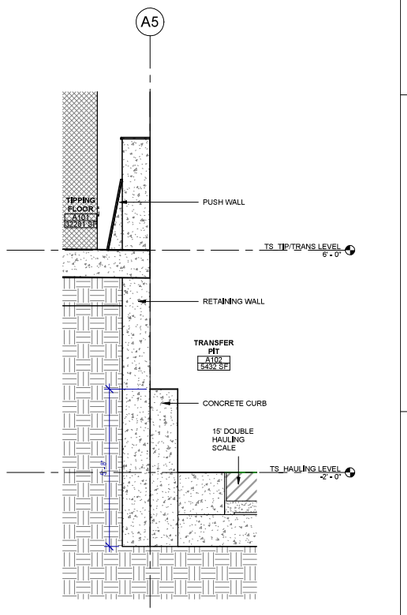
CITY DWG NO.:



4 TRANSFER STATION - WALL SECTION C
SCALE: 3/8" = 1'-0"



2 TRANSFER STATION - WALL SECTION B
SCALE: 3/8" = 1'-0"



1 TRANSFER STATION SECTION A
SCALE: 1/2" = 1'-0"

0 1 2 4
SCALE : 1/2" = 1'-0"

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
800 Sampson St #104 Houston, TX 77003
713.868.3121

SOLID WASTE PLANNING: TETRA TECH
1500 CityWest Boulevard, Suite 1000
Houston, TX 77042
936.202.0746

CIVIL: KIMLEY HORN
11700 Katy Fwy #800 Houston, Tx.
77079
281.920.6571

LANDSCAPE : SWA GROUP
712 Main St, 6th Floor Houston TX 77002
469.525.8731

MEP : INFRASTRUCTURE ASSOCIATES
6117 Richmond Avenue, Suite 200
Houston, Texas 77057
713.622.0120

STRUCTURAL : DALLY ASSOCIATES, INC
9800 Richmond Ave., Suite 600, Houston, TX
77042
713 337 8881

TELECOM/ SECURITY : PGA ENGINEERS
3838 N Sam Houston Pkwy E Houston,
TX 77032
832.867.2161

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AUTHORIZED: DANIEL ORTIZ, AIA

LICENSE NUMBER: 25004

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NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER SPONSORING DEPARTMENT

PROJECT MANAGER

STATE OF TEXAS
JAMES M. NORSTROM
57016
LICENSED PROFESSIONAL ENGINEER
03/25/26
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

DATE: 10/31/2025
WBS NO.: L-000136
SCALE:
DRAWN BY:
CHECKED BY:

SHEET TITLE:
WALL SECTIONS

SHEET NO.:
A-311

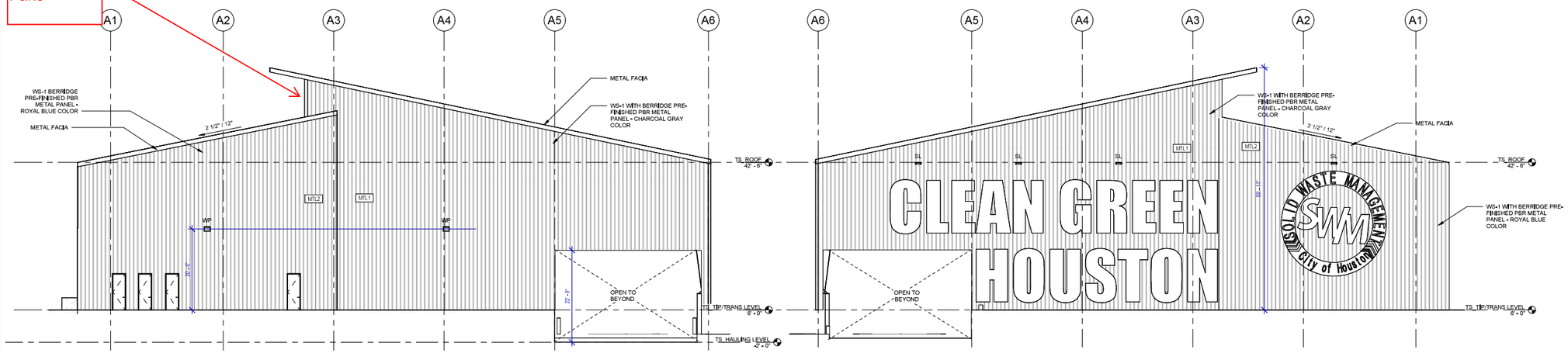
CITY DWG NO.:

Attachment III–5 Building Elevations and Ventilation

Louvers for Ventilation Fans

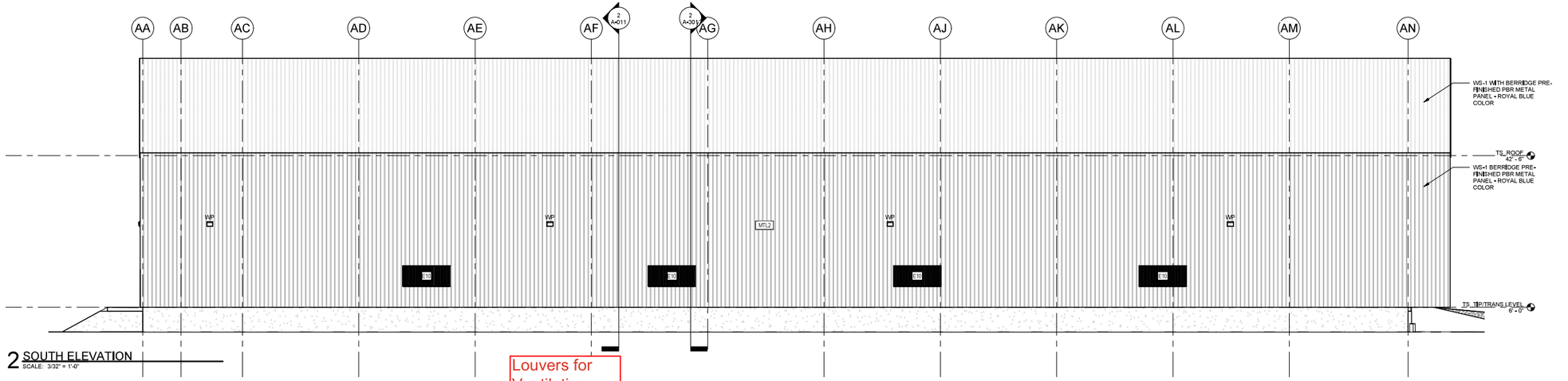
KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
E10	120"X60" LOUVER MODEL RUSKIN EME6625. REFER TO MEP DRAWINGS



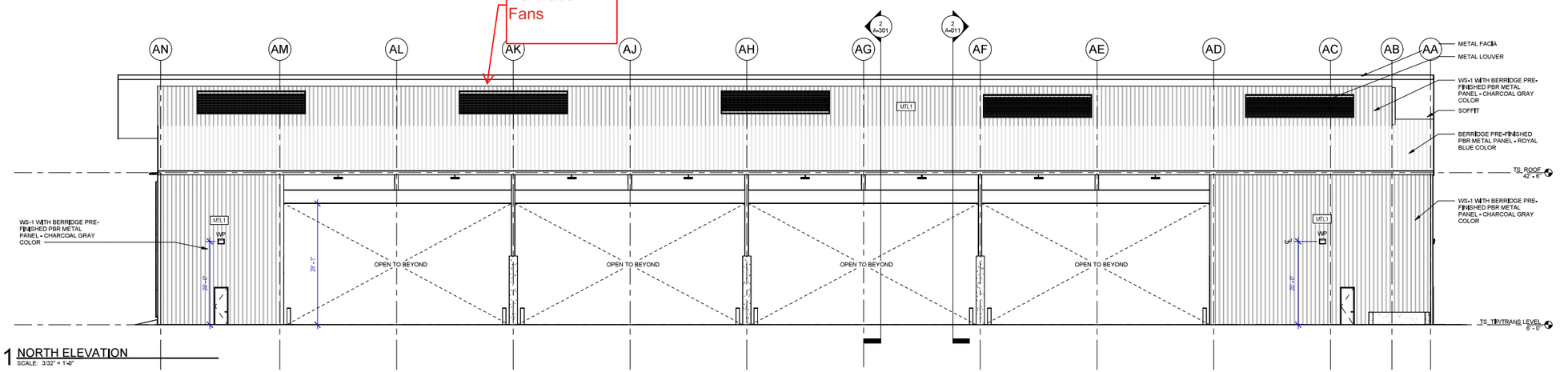
3 EAST ELEVATION
SCALE: 3/32" = 1'-0"

4 WEST ELEVATION
SCALE: 3/32" = 1'-0"



2 SOUTH ELEVATION
SCALE: 3/32" = 1'-0"

Louvers for Ventilation Fans



1 NORTH ELEVATION
SCALE: 3/32" = 1'-0"

0 8' 16' 24'
SCALE : 3/32" = 1'-0"

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
800 Sampson St #104 Houston, TX 77003
713.868.3121

SOLID WASTE PLANNING: TETRA TECH
1500 CityWest Boulevard, Suite 1000
Houston, TX 77042
936.202.0746

CIVIL: KIMLEY HORN
11700 Katy Fwy #800 Houston, Tx.
77079
281.920.6571

LANDSCAPE : SWA GROUP
712 Main St, 6th Floor Houston TX 77002
469.525.8731

MEP : INFRASTRUCTURE ASSOCIATES
6117 Richmond Avenue, Suite 200
Houston, Texas 77057
713.622.0120

STRUCTURAL : DALLY ASSOCIATES, INC
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77042
713 337 8881

TELECOM/ SECURITY : PGA ENGINEERS
3838 N Sam Houston Pkwy E Houston,
TX 77032
832.867.2161

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER

SPONSORING DEPARTMENT

PROJECT MANAGER

STATE OF TEXAS
JAMES M. NORSTROM
57016
LICENSED
PROFESSIONAL ENGINEER
12/23/24
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3024

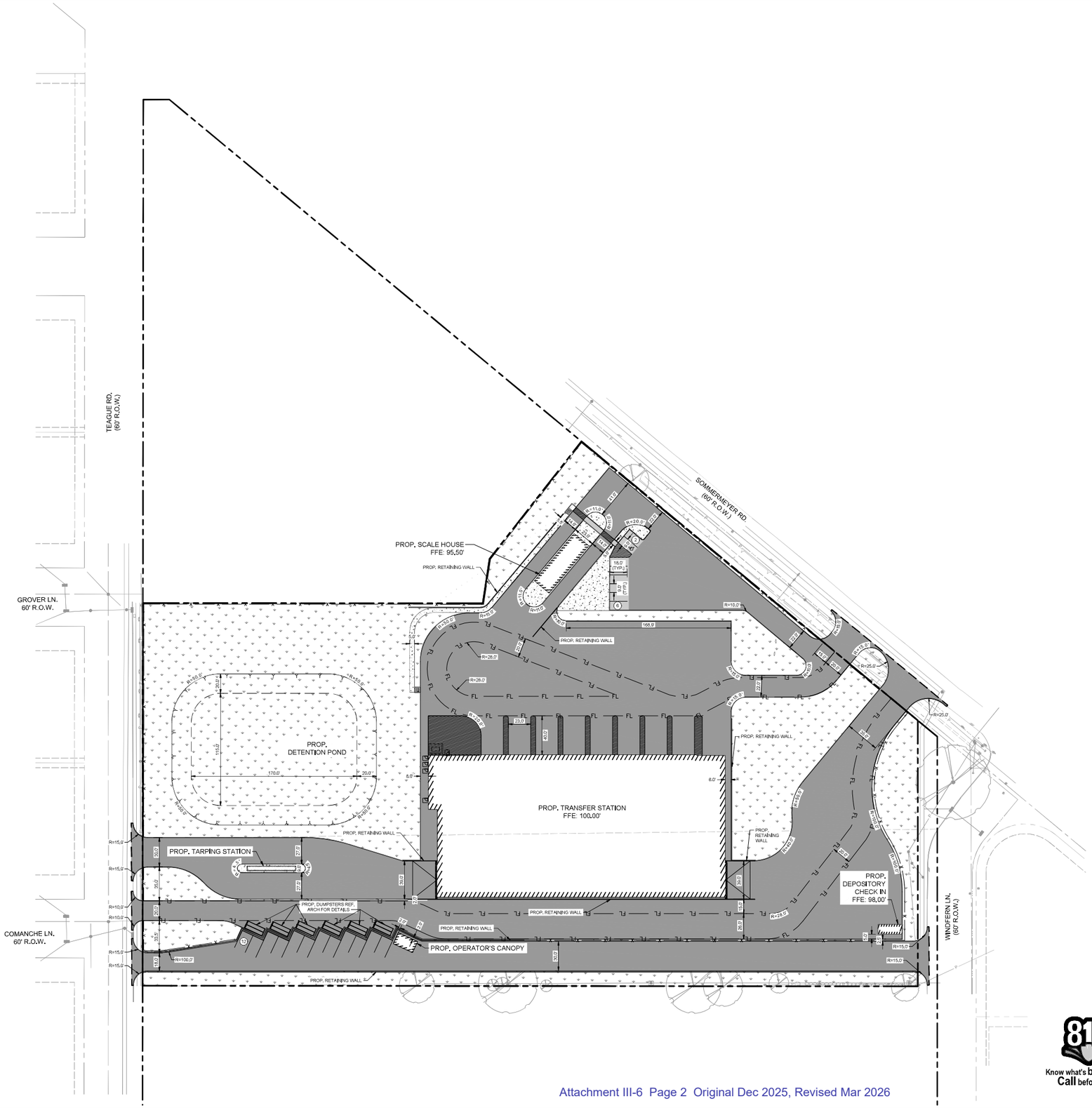
DATE: 10/31/2025
WBS NO.: L-000136
SCALE:
DRAWN BY:
CHECKED BY:

SHEET TITLE:
EXTERIOR ELEVATIONS - TRANSFER STATION

SHEET NO.:
A-201

CITY DWG NO.:

Attachment III-6 Construction Details



NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

LEGEND	
	PROPERTY LINE
FL	FIRE LANE STRIPING
	SAWCUT LINE
4	PARKING COUNT
	CURB RAMP NOT IN PUBLIC ROW
	ACCESSIBILITY SPACE
PAVING MATERIAL LEGEND	
	SIDEWALK
	MEDIUM DUTY PAVEMENT
	HEAVY DUTY PAVEMENT
	LANDSCAPE AREA

GENERAL NOTES

1. DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
2. ALL RADII 2' UNLESS OTHERWISE NOTED.
3. REFER TO ARCHITECTURAL PLANS FOR SITE LIGHTING POLES AND FIXTURES AND ELECTRICAL PLAN PRIOR TO PLACING PAVEMENT.
4. REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
5. SIDEWALKS TO HAVE A 0% MAXIMUM RUNNING SLOPE AND A 2% MAXIMUM CROSS SLOPE IN ACCORDANCE WITH ADA REQUIREMENTS.
6. FIELD VERIFY ADA GRADES PRIOR TO PLACING PAVEMENT. CONTRACTOR SHALL CONSTRUCT ALL ACCESSIBLE ROUTES IN ACCORDANCE WITH ADA STANDARDS AND TAS.
7. REF. IRRIGATION PLANS PRIOR TO PLACING PAVEMENT.
8. CONTRACTOR SHALL BUDGET FOR ACCESSIBLE STALL STRIPING, FIRE LANE STRIPING, DIRECTIONAL ARROWS, ETC.
9. SITE LIGHTING IS BY OTHERS. REF. SITE LIGHTING PLANS FOR LOCATIONS AND DETAILS PRIOR TO PLACING PAVEMENT.
10. REF. BUILDING PLANS FOR ALL EXTERIOR STAIR DETAILS.
11. CONTRACTOR TO ADJUST EXISTING SANITARY SEWER MANHOLES, STORM SEWER MANHOLES, ELECTRICAL MANHOLES, FIRE HYDRANTS, VALVE BOXES, WATER METERS, ETC. TO MATCH PROPOSED FINISHED GRADES IF NECESSARY.

811 Know what's below. Call before you dig.

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
800 Sampson St #104 Houston, TX 77003
713.868.3121

SOLID WASTE PLANNING: TETRA TECH
1500 CityWest Boulevard, Suite 1000
Houston, TX 77042
936.202.0746

CIVIL: KIMLEY HORN
11700 Katy Fwy #800 Houston, Tx.
77079
281.920.6571

LANDSCAPE : SWA GROUP
712 Main St, 6th Floor Houston TX 77002
469.525.8731

MEP : INFRASTRUCTURE ASSOCIATES
6117 Richmond Avenue, Suite 200
Houston, Texas 77057
713.622.0120

STRUCTURAL : DALLY ASSOCIATES, INC
9800 Richmond Ave., Suite 600, Houston, TX
77042
713 337 8881

TELECOM/ SECURITY : PGA ENGINEERS
3838 N Sam Houston Pkwy E Houston,
TX 77032
832.867.2161

SEALS:

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER

SPONSORING DEPARTMENT

PROJECT MANAGER

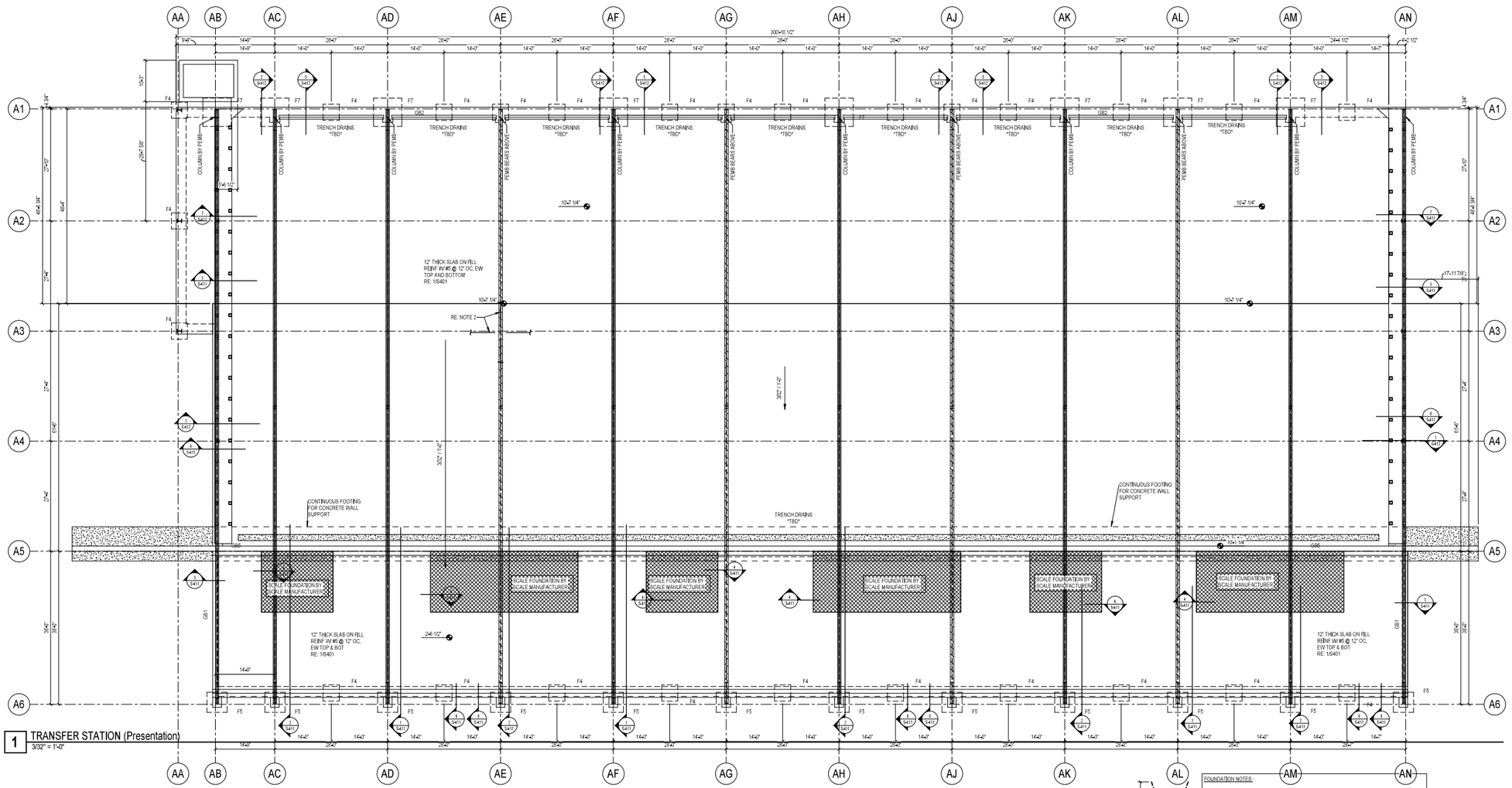
STATE OF TEXAS
JAMES M. NORSTROM
57016
LICENSED PROFESSIONAL ENGINEER
10/29/25
TETRA TECH, INC.
FIRM REGISTRATION NO. F-2924

DATE: 10/28/2025
WBS NO.: L-000136
SCALE: AS NOTED
DRAWN BY: SGY
CHECKED BY: KLM

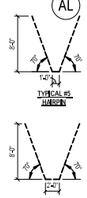
SHEET TITLE:
DIMENSION CONTROL AND PAVING PLAN

SHEET NO.:
C-400

CITY DWG NO.:



1 TRANSFER STATION (Presentation)
3/32" = 1'-0"





FOUNDATION NOTES:

1. DATUM ELEVATION <0'-0"> CORRESPONDS TO TRUE ELEVATION = RE: CIVIL. ALL ELEVATIONS ARE RELATIVE TO DATUM ELEVATION <0'-0">.
2. PROVIDE CONTROL JOINTS AT EVERY COLUMN LINE AND AT A MAXIMUM SPACING OF 36 TIMES THE SLAB THICKNESS (NOT TO EXCEED 15-0"), TYPICAL UON. FOR ADDITIONAL INFORMATION RE: S/S-401
3. PROVIDE ADDITIONAL REINFORCING AT ALL RE-ENTRANT CORNERS RE: S/S-401
4. G.C. TO PROVIDE A HOUSEKEEPING PAD UNDER ALL MECHANICAL UNITS, FOR TYPICAL HOUSEKEEPING PAD DETAIL RE: 8/S-401
5. "GB1" (EXAMPLE) INDICATES GRADE BEAM TYPE ALL GRADE BEAMS ARE TYPE "GB1" TYP. UON. ALL GRADE BEAMS ARE AT ELEVATION <-0'-6"> TYP. UON. PROVIDE TYPICAL CORNER BARS AT ALL GRADE BEAM INTERSECTIONS RE: 2/S-402 FOR GRADE BEAM SCHEDULE & DETAILS RE: -/-
6. G.C. TO COORDINATE ALL SLAB ON GRADE SLOPES, DEPRESSIONS, ELEVATIONS, FLOOR AND TRENCH DRAINS WITH ARCH, PRIOR TO CONSTRUCTION.
7. CONCRETE CURBS NOT SHOWN FOR CLARITY. G.C TO PROVIDE CONCRETE CURB AS DESIGNATED IN ARCHITECTURAL DRAWINGS, FOR TYPICAL CONCRETE CURB DETAIL RE: 9/S-401
8. FOLLOW PEMB ANCHOR BOLT LAYOUT DRAWINGS FOR ANCHOR BOLTS. DO NOT USE THESE DRAWINGS TO PLACE ANCHOR BOLT LOCATIONS.
9. FOUNDATION CONSTRUCTION CANNOT BEGIN UNTIL FINAL PEMB DRAWINGS HAVE BEEN RECEIVED AND REVIEWED BY EOR.

Dally + ASSOCIATES STRUCTURAL | CIVIL
9800 Richmond Avenue, Suite 600
Houston, Texas 77042
t 713 337 8881
Texas Registered Engineering Firm
F-003426
P: 25-194-00

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
800 Sampson St #104 Houston, TX 77003
713.868.3121

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3838 N Sam Houston Pkwy E Houston,
TX 77032
832.867.2161

SEALS:

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER _____ SPONSOR / DEPARTMENT _____
PROJECT MANAGER _____

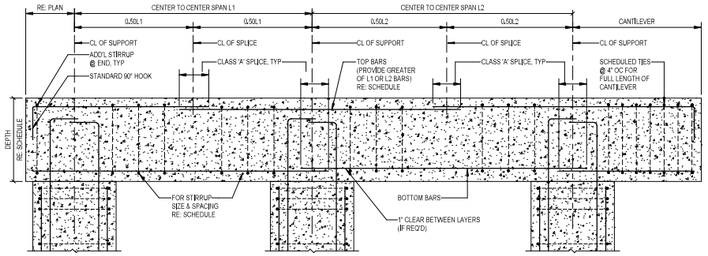
STATE OF TEXAS
JAMES M. NORSTROM
57016
LICENSED PROFESSIONAL ENGINEER
10/28/25
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

DATE: 10/13/2025
WBS NO.: L-000136
SCALE:
DRAWN BY:
CHECKED BY:

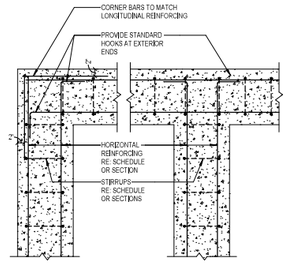
SHEET TITLE:
FOUNDATION PLAN - TRANSFER STATION

SHEET NO.:
S-201

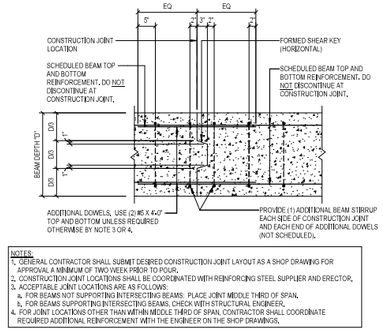
CITY DWG NO.:



1 TYPICAL GRADE BEAM REINF. ELEVATION
3/4" = 1'-0"

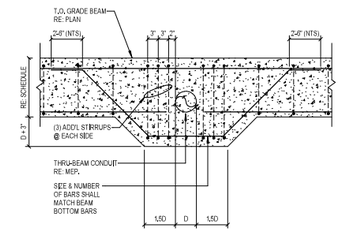


2 TYPICAL GRADE BEAM REINF. AT INTERSECTION
3/4" = 1'-0"

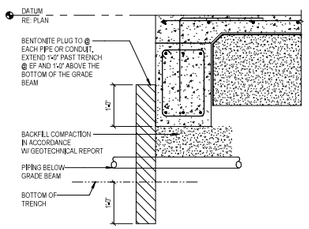


NOTES:
1. GENERAL CONTRACTOR SHALL SUBMIT DESIRED CONSTRUCTION JOINT LAYOUT AS A SHOP DRAWING FOR APPROVAL A MINIMUM OF TWO WEEK PRIOR TO POUR.
2. CONSTRUCTION JOINT LOCATIONS SHALL BE COORDINATED WITH REINFORCING STEEL SUPPLIER AND ERECTOR.
3. ACCEPTABLE JOINT LOCATIONS ARE AS FOLLOWS:
   a. FOR BEAMS NOT SUPPORTING INTERSECTING BEAMS: PLACE JOINT MIDDLE THIRD OF SPAN.
   b. FOR BEAMS SUPPORTING INTERSECTING BEAMS: CHECK WITH STRUCTURAL ENGINEER.
4. FOR JOINT LOCATIONS OTHER THAN WITHIN MIDDLE THIRD OF SPAN, CONTRACTOR SHALL COORDINATE REQUIRED ADDITIONAL REINFORCEMENT WITH THE ENGINEER ON THE SHOP DRAWINGS.

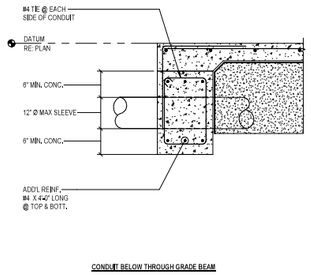
3 TYPICAL GRADE BEAM CONSTRUCTION JOINT
3/4" = 1'-0"



4 TYPICAL THRU. BEAM CONDUIT
3/4" = 1'-0"

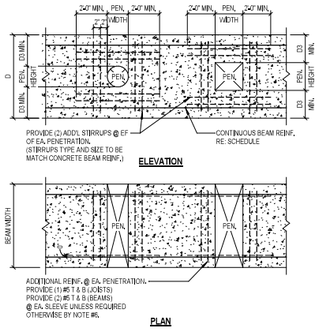


CONDUIT BELOW GRADE BEAM



CONDUIT BELOW THROUGH GRADE BEAM

5 TYPICAL CONDITION AT CONDUIT
3/4" = 1'-0"

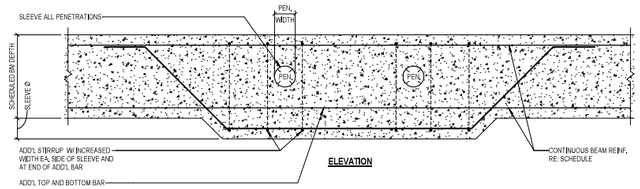


ELEVATION

PLAN

NOTES:
1. GENERAL CONTRACTOR TO COORDINATE LOCATION, SIZE AND ELEVATION AND INCLUDE IN THEIR CONTRACT PRICE ALL REQUIRED HORIZONTAL PENETRATIONS THROUGH CONCRETE BEAMS AND JOISTS WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT.
2. WHERE BEAM PENETRATIONS ARE REQUIRED BUT ARE NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS, SUBMIT DRAWINGS, SHOWING DIMENSIONS AND LOCATIONS OF ALL REQUIRED PENETRATIONS, FOR REVIEW AND APPROVAL.
3. "D" DENOTES THE DEPTH OF BEAM OR JOIST.
4. CLEAR SPACING BETWEEN PENETRATIONS SHALL BE 24" MINIMUM UNLESS DESIGNED OTHERWISE BY THE ENGINEER.
5. PENETRATIONS SHALL BE LOCATED ACCORDING TO THE FOLLOWING CRITERIA:
   A. FOR BEAMS (AND JOIST) NOT SUPPORTING INTERSECTING BEAMS (OR JOISTS): LOCATE PENETRATIONS WITHIN TWO FEET EITHER SIDE OF BEAM MIDSPAN.
   B. FOR BEAMS (OR JOISTS) SUPPORTING INTERSECTING BEAMS (OR JOISTS): CHECK WITH STRUCTURAL ENGINEER.
   C. FOR LOCATIONS AND/OR SIZES OF PENETRATIONS NOT CONFORMING TO THE ABOVE CRITERIA AND NOT OTHERWISE DETAILED ON THE STRUCTURAL DRAWINGS, CONTRACTOR SHALL BE COORDINATE REQUIRED ADDITIONAL REINFORCEMENT WITH THE ENGINEER ON THE SHOP DRAWINGS.

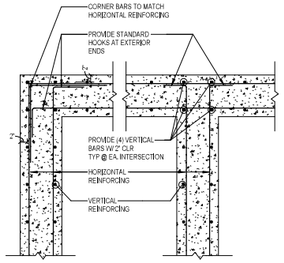
6 TYPICAL STRAP BEAM REINF. AT COLUMN
3/4" = 1'-0"



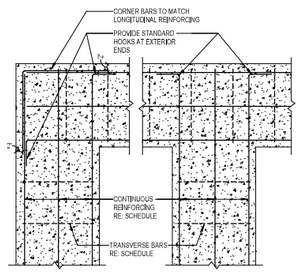
ELEVATION

NOTES:
1. REQUIRED BEAM SLEEVES ARE TO BE COORDINATED WITH MEP CONTRACTORS. REQUIRED SLEEVES MAY BE OR MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS. GENERAL CONTRACTOR SHALL SUBMIT PLAN SHOWING LAYOUT OF ALL SLEEVES WITH FORMWORK SHOP DRAWING SUBMITTAL.
2. CONTINUOUS BEAM REINFORCING MAY BE SLIGHTLY DISPLACED (3" MAXIMUM) OR ADJACENT BARS BUNDLED (2-BAR BUNDLES MAXIMUM TO FACILITATE SLEEVE INSTALLATION, DO NOT CUT, OR OFFSET, OR BEND REINFORCING.
3. THE OUTSIDE DIAMETER OF A SLEEVE MAY NOT EXCEED 2", IF OUTSIDE DIAMETER OF IS GREATER THAN 2", THE WIDTH OF THE BEAM SHALL BE INCREASED BY THE PENETRATION DIMENSION (6" MAX). THE INCREASED WIDTH HALL EXTEND 1'-6" ON EACH SIDE OF THE PENETRATION. ADD (1) ADDITIONAL TOP AND BOTTOM BAR AND ADDL STIRRUPS AT THICKENED PORTION. NO REBAR SHALL BE CUT TO ALLOW FOR THE PENETRATION
4. THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD FOR DIRECTIONS WHEN A SLEEVE SIZE OR LOCATION DOES NOT MEET THE CONDITIONS ESTABLISHED ABOVE.

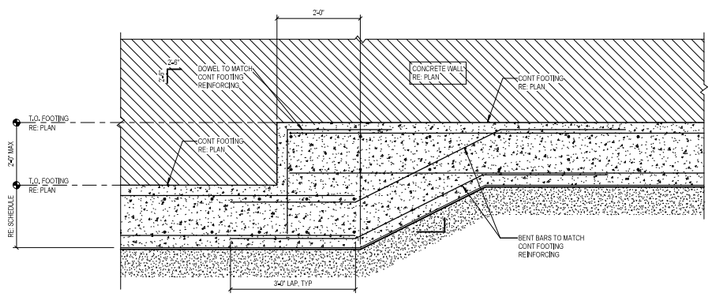
7 TYPICAL GRADE BEAM STEP
3/4" = 1'-0"

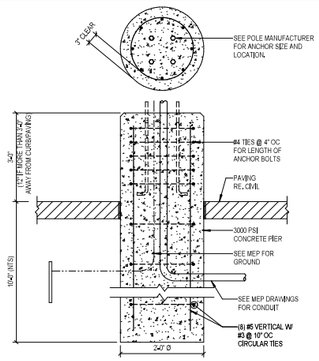


8 HORIZONTAL PENETRATION THROUGH CONCRETE BEAM
3/4" = 1'-0"

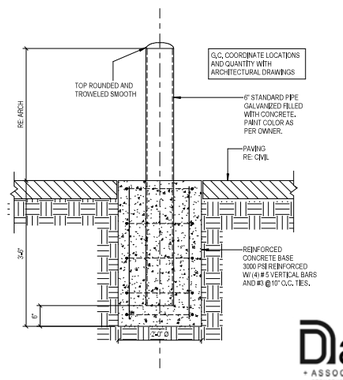


9 VERTICAL PENETRATION THROUGH CONCRETE BEAM
3/4" = 1'-0"





10 TYPICAL STEM WALL REINF. AT INTERSECTION
3/4" = 1'-0"



Attachment III-6 Page 4 Original Dec 2025, Revised Mar 2026

11 TYPICAL CONT. FOOTING REINF. AT INTERSECTION
3/4" = 1'-0"

12 TYPICAL CONTINUOUS FOOTING STEP
3/4" = 1'-0"

13 TYPICAL LIGHT POLE DETAIL (30'-0" TALL MAX)
3/4" = 1'-0"

14 TYPICAL BOLLARD DETAIL
3/4" = 1'-0"

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
800 Sampson St #104 Houston, TX 77003
713.868.3121

SOLID WASTE PLANNING: TETRA TECH
1500 CityWest Boulevard, Suite 1000
Houston, TX 77042
936.202.0746

CIVIL: KIMLEY HORN
11700 Katy Fwy #800 Houston, Tx,
77079
281.920.6571

LANDSCAPE : SWA GROUP
712 Main St, 6th Floor Houston TX 77002
469.525.8731

MEP : INFRASTRUCTURE ASSOCIATES
6117 Richmond Avenue, Suite 200
Houston, Texas 77057
713.622.0120

STRUCTURAL : DALLY ASSOCIATES, INC
9800 Richmond Ave., Suite 600, Houston, TX 77042
713 337 8881

TELECOM/ SECURITY : PGA ENGINEERS
3838 N Sam Houston Pkwy E Houston,
TX 77032
832.867.2161

SEALS:

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER

SPONSORING DEPARTMENT

PROJECT MANAGER

STATE OF TEXAS
JAMES M. NORSTROM
57016
LICENSED PROFESSIONAL ENGINEER
07/28/26
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

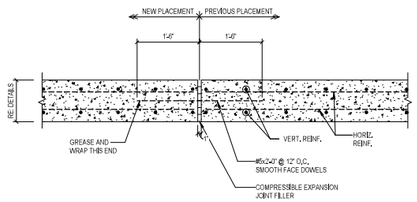
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WBS NO.: L-000136
SCALE:
DRAWN BY:
CHECKED BY:

SHEET TITLE:
TYPICAL GRADE BEAM AND CONT. FOOTING DETAILS

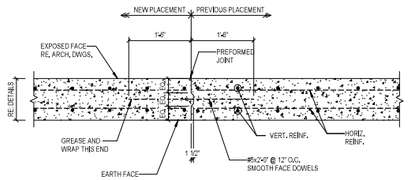
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S-402

CITY DWG NO.:

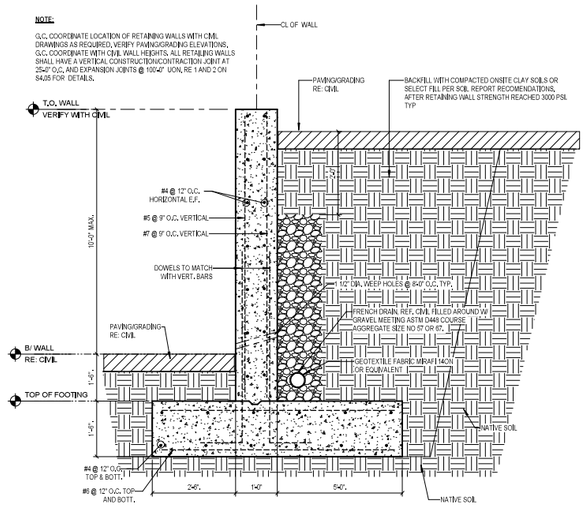
Dally + ASSOCIATES STRUCTURAL | CIVIL
9800 Richmond Avenue, Suite 600
Houston, Texas 77042
t 713.337.8881
Texas Registered Engineering Firm
F-005426
P: 25-194-00



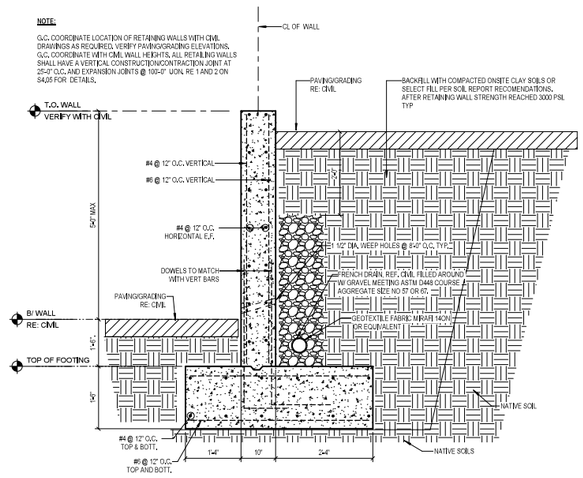
1 TYPICAL RETAINING WALL CONSTRUCTION JOINT DETAIL
3/4" = 1'-0"



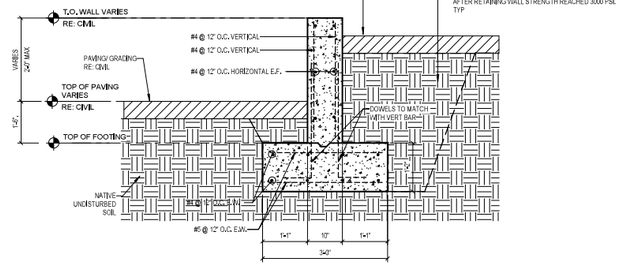
TYPICAL RETAING WALL
2 VERT. CONSTUCTION & CONTROL JOINT
3/4" = 1'-0"



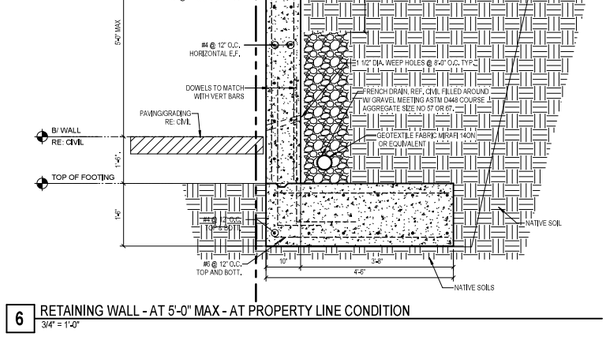
3 RETAINING WALL - AT 10'-0" MAX
3/4" = 1'-0"



4 RETAINING WALL - AT 5'-0" MAX
3/4" = 1'-0"



5 RETAINING WALL - AT 2'-0" MAX
3/4" = 1'-0"



6 RETAINING WALL - AT 5'-0" MAX - AT PROPERTY LINE CONDITION
3/4" = 1'-0"

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/17/2025	SD

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
800 Sampson St #104 Houston, TX 77003
713.868.3121

SOLID WASTE PLANNING: TETRA TECH
1500 CityWest Boulevard, Suite 1000
Houston, TX 77042
936.202.0746

CIVIL: KIMLEY HORN
11700 Katy Fwy #800 Houston, Tx,
77079
281.920.6571

LANDSCAPE : SWA GROUP
712 Main St, 6th Floor Houston TX 77002
469.525.8731

MEP : INFRASTRUCTURE ASSOCIATES
6117 Richmond Avenue, Suite 200
Houston, Texas 77057
713.622.0120

STRUCTURAL : DALLY ASSOCIATES, INC
9800 Richmond Ave., Suite 600, Houston, TX
77042
713 337 8881

TELECOM/ SECURITY : PGA ENGINEERS
3838 N Sam Houston Pkwy E Houston,
TX 77032
832.867.2161

SEALS:



PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:
PROJECT MANAGER
SPONSOR/USER DEPARTMENT
PROJECT MANAGER

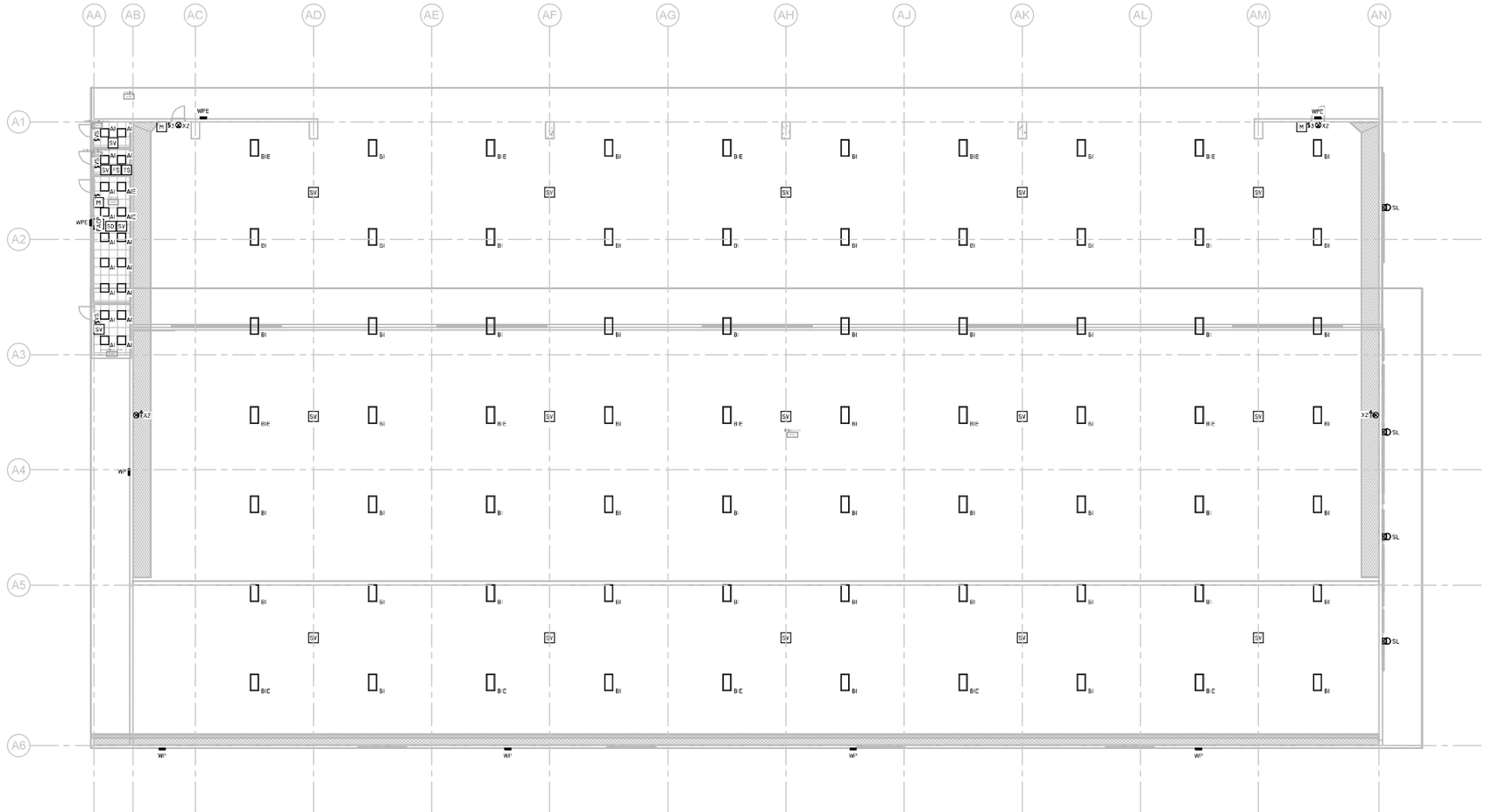
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WBS NO.: L-000136
SCALE:
DRAWN BY:
CHECKED BY:

SHEET TITLE:
RETAINING WALL DETAILS

SHEET NO.:
S-403

CITY DWG NO.:

Dally + ASSOCIATES STRUCTURAL | CIVIL
9800 Richmond Avenue, Suite 600
Houston, Texas 77042
| 713.337.8881
Texas Registered Engineering Firm
F-03426
P: 25-194-00



1 FLOOR PLAN - TIPPING LEVEL - LIGHTING
SCALE: 3/32" = 1'-0"

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
800 Sampson St #104 Houston, TX 77003
713.868.3121

SOLID WASTE PLANNING: TETRA TECH
1500 CityWest Boulevard, Suite 1000
Houston, TX 77042
936.202.0746

CIVIL: KIMLEY HORN
11700 Katy Fwy #800 Houston, Tx.
77079
281.920.6571

LANDSCAPE : SWA GROUP
712 Main St, 6th Floor Houston TX 77002
469.525.8731

MEP : INFRASTRUCTURE ASSOCIATES
6117 Richmond Avenue, Suite 200
Houston, Texas 77057
713.522.0120

STRUCTURAL : DALLY ASSOCIATES, INC
9800 Richmond Ave., Suite 600, Houston, TX
77042
713 337 8881

TELECOM/ SECURITY : PGA ENGINEERS
3838 N Sam Houston Pkwy E Houston,
TX 77032
832.867.2161

SEALS:

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER | DEPARTMENT

PROJECT MANAGER

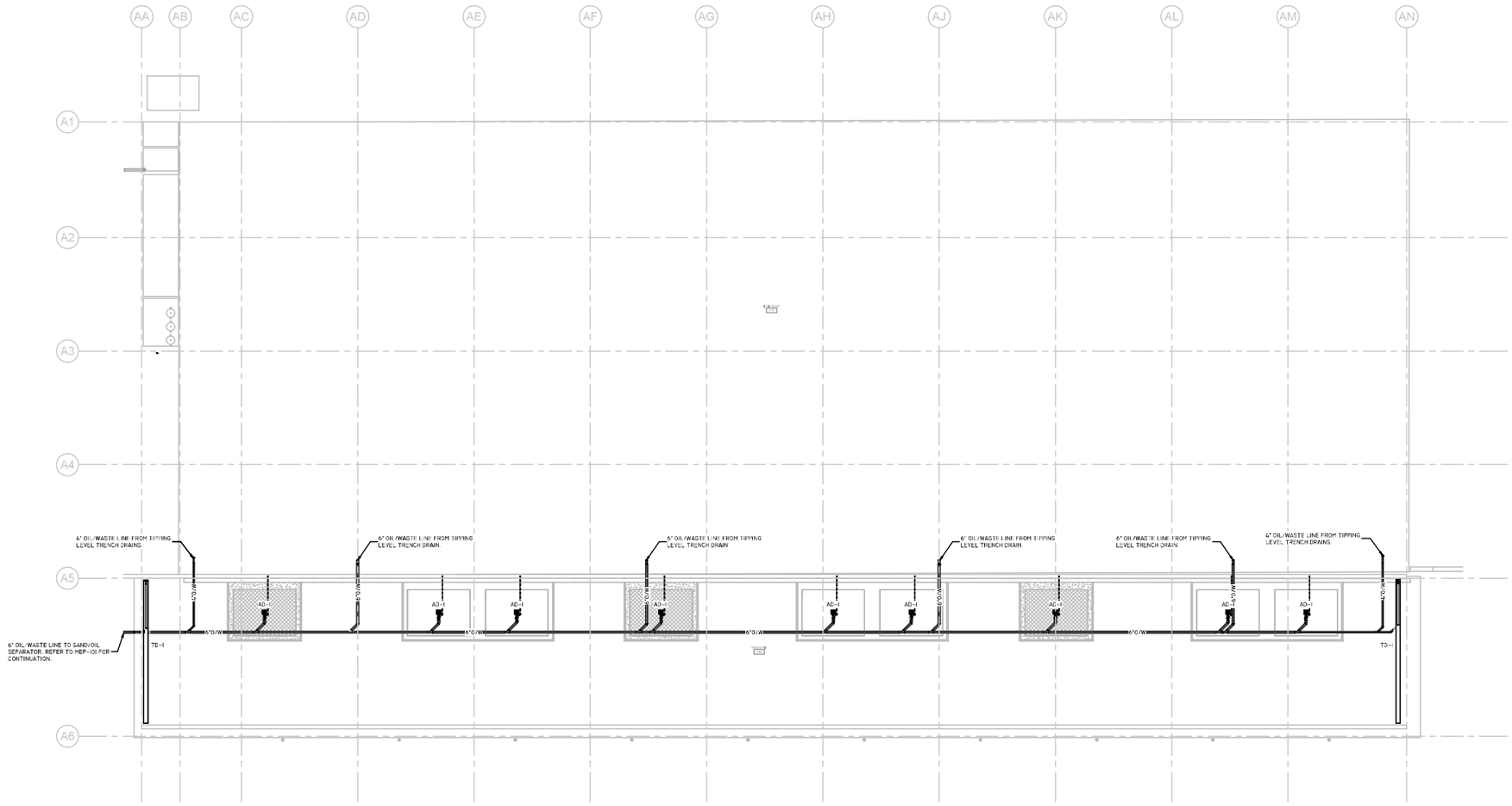
STATE OF TEXAS
JAMES M. NORSTROM
57016
LICENSED PROFESSIONAL ENGINEER
02/25/26
TETRA TECH, INC.
FIRM REGISTRATION NO. F-2924

DATE: 10/31/2025
WBS NO.: L-000135
SCALE:
DRAWN BY:
CHECKED BY:

SHEET TITLE:
TRANSFER STATION FLOOR PLAN - LIGHTING

SHEET NO.:
E-301

CITY DWG NO.:



1 FLOOR PLAN - GROUND LEVEL - SANITARY
SCALE: 3/32" = 1'-0"

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
800 Sampson St #104 Houston, TX 77003
713.868.3121

SOLID WASTE PLANNING: TETRA TECH
1500 CityWest Boulevard, Suite 1000
Houston, TX 77042
936.202.0746

CIVIL: KIMLEY HORN
11700 Katy Fwy #800 Houston, Tx.
77079
281.920.6571

LANDSCAPE : SWA GROUP
712 Main St, 6th Floor Houston TX 77002
469.525.8731

MEP : INFRASTRUCTURE ASSOCIATES
6117 Richmond Avenue, Suite 200
Houston, Texas 77057
713.522.0120

STRUCTURAL : DALLY ASSOCIATES, INC
9800 Richmond Ave., Suite 600, Houston, TX
77042
713 337 8881

TELECOM/ SECURITY : PGA ENGINEERS
3838 N Sam Houston Pkwy E Houston,
TX 77032
832.667.2161

SEALS:

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER — STRATEGIC DEPARTMENT
PROJECT MANAGER

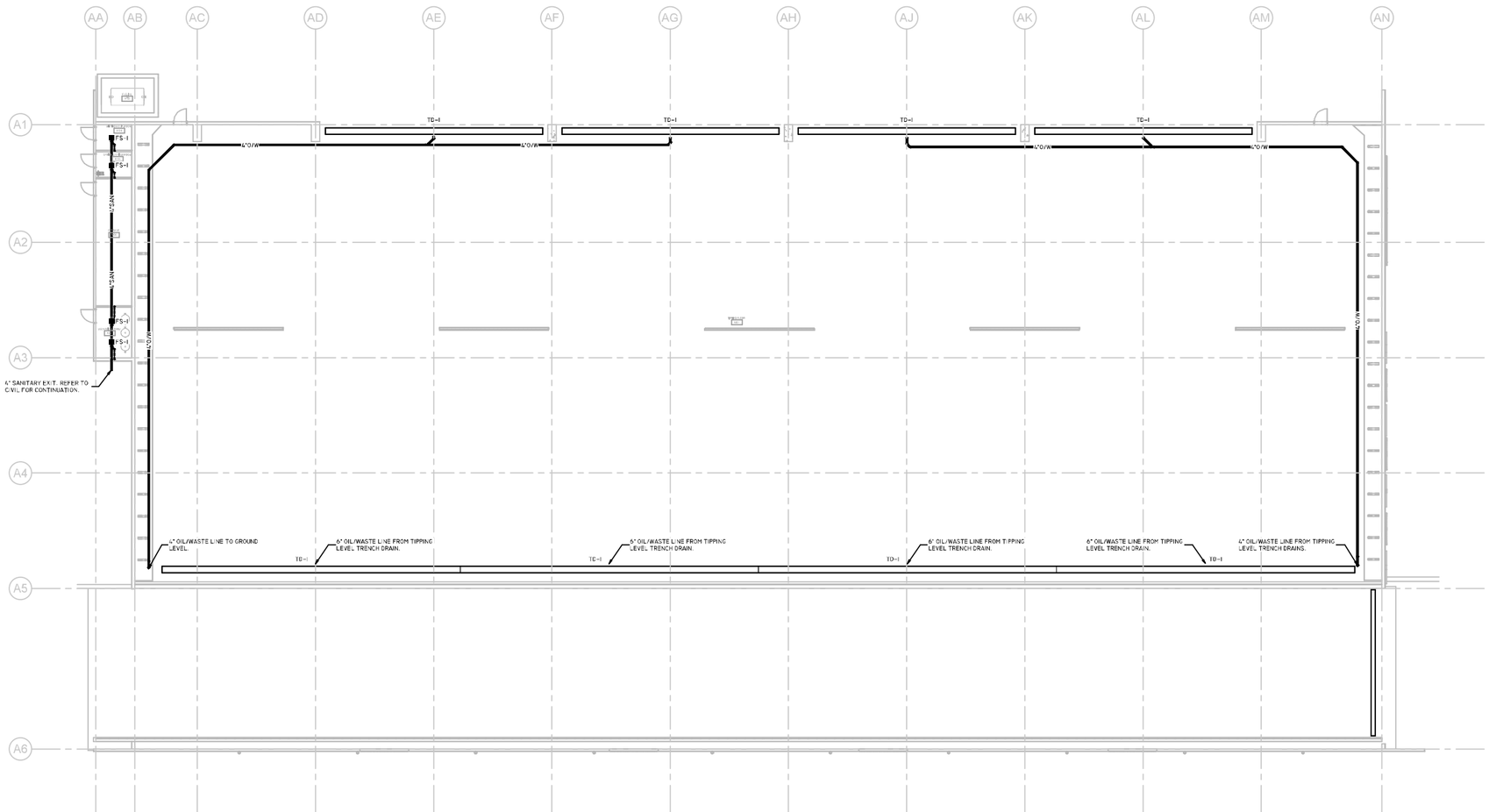
STATE OF TEXAS
JAMES M. NORSTROM
57016
LICENSED PROFESSIONAL ENGINEER
10/29/25
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

DATE: 10/31/2025
WBS NO.: L-000136
SCALE:
DRAWN BY:
CHECKED BY:

SHEET TITLE:
TRANSFER STATION FLOOR PLAN - GROUND LEVEL - SANITARY

SHEET NO.:
P-201

CITY DWG NO.:



1 FLOOR PLAN - TIPPING LEVEL - SANITARY
SCALE: 3/32" = 1'-0"

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
800 Sampson St #104 Houston, TX 77003
713.868.3121

SOLID WASTE PLANNING: TETRA TECH
1500 CityWest Boulevard, Suite 1000
Houston, TX 77042
936.202.0746

CIVIL: KIMLEY HORN
11700 Katy Fwy #800 Houston, Tx.
77079
281.920.6571

LANDSCAPE : SWA GROUP
712 Main St, 6th Floor Houston TX 77002
469.525.8731

MEP : INFRASTRUCTURE ASSOCIATES
6117 Richmond Avenue, Suite 200
Houston, Texas 77057
713.522.0120

STRUCTURAL : DALLY ASSOCIATES, INC
9800 Richmond Ave., Suite 600, Houston, TX
77042
713 337 8881

TELECOM/ SECURITY : PGA ENGINEERS
3838 N Sam Houston Pkwy E Houston,
TX 77032
832.667.2161

SEALS:

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER | DRAWING DEPARTMENT
PROJECT MANAGER

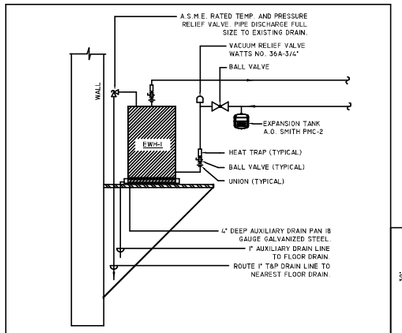
STATE OF TEXAS
JAMES M. NORSTROM
57016
LICENSED
PROFESSIONAL ENGINEER
02/23/26
TETRA TECH, INC.
FIRM REGISTRATION NO. F-1924

DATE: 10/31/2025
WBS NO.: L-000136
SCALE:
DRAWN BY:
CHECKED BY:

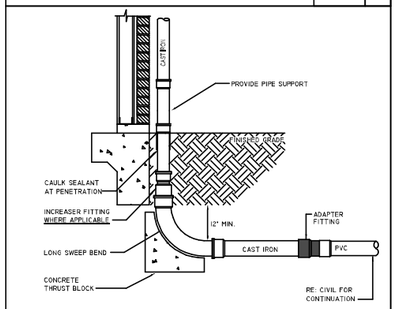
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TRANSFER STATION FLOOR PLAN - TIPPING LEVEL - SANITARY

SHEET NO.
P-202

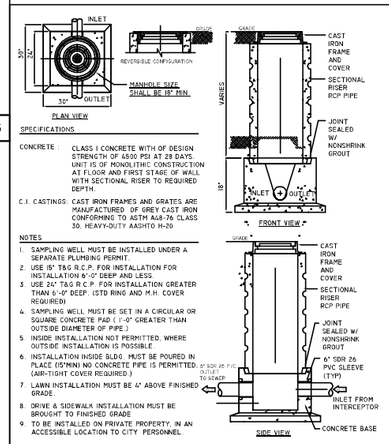
CITY DWG NO.:



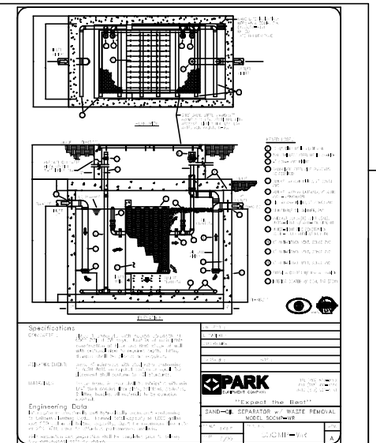
ELECTRIC WALL MOUNT WATER HEATER DETAIL | NOT TO SCALE | 13



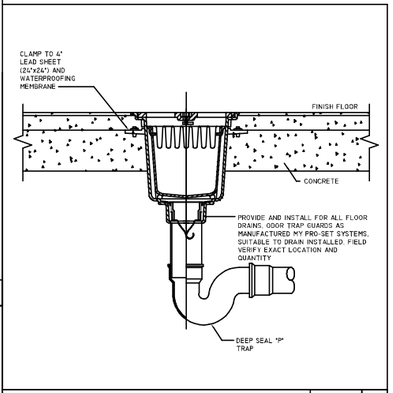
TYPICAL STORM DOWN SPOUT PIPE DETAIL | NOT TO SCALE | 12



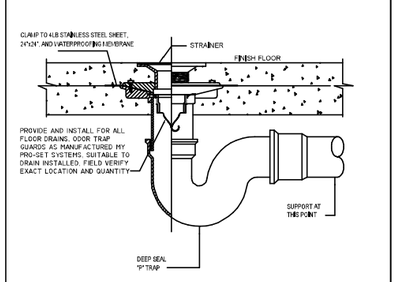
SAMPLE WELL DETAIL | NOT TO SCALE | 8



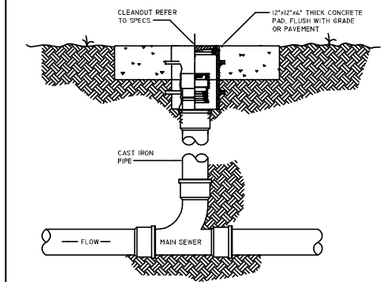
OIL/WASTE SEPARATOR DETAIL | NOT TO SCALE | 5



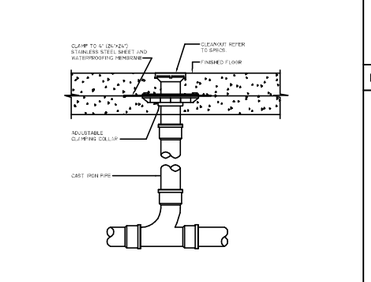
FLOOR SINK WITH TRAP GUARD (FS-I) | NOT TO SCALE | 2



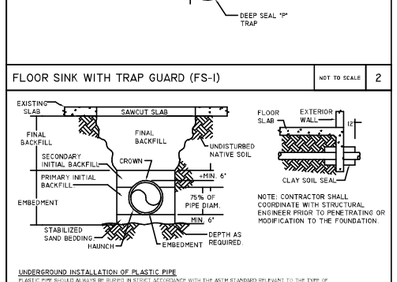
FLOOR DRAIN DETAIL WITH TRAP GUARD | NOT TO SCALE | 10



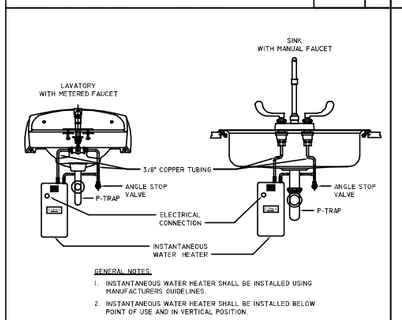
EXTERIOR CLEANOUT DETAIL | NOT TO SCALE | 7



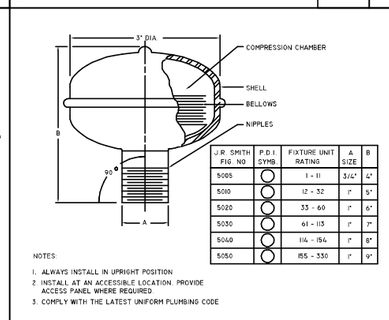
FLOOR CLEANOUT DETAIL (FCO-I) | NOT TO SCALE | 4



BACKFILL PIPING DETAIL | NOT TO SCALE | 1

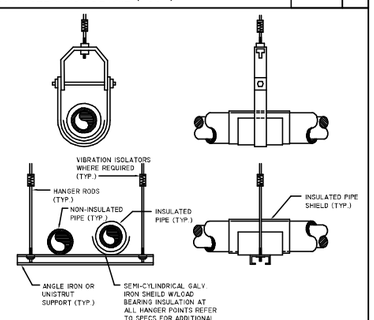


INSTANTANEOUS ELECTRIC WATER HEATER DETAIL (IWH-) | NOT TO SCALE | 9



J.R. SMITH FIG. NO	P.D.I GYMS	FIXTURE UNIT RATING	A SIZE	B
5005		1 - 11	3/4"	4"
5010		12 - 32	1"	5"
5020		33 - 60	1"	6"
5030		61 - 113	1"	7"
5040		114 - 154	1"	8"
5050		155 - 330	1"	9"

WATER HAMMER ARRESTERS | NOT TO SCALE | 6



PIPE HANGER DETAIL | NOT TO SCALE | 3

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
800 Sampson St #104 Houston, TX 77003
713.868.3121

SOLID WASTE PLANNING: TETRA TECH
1500 CityWest Boulevard, Suite 1000
Houston, TX 77042
936.202.0746

CIVIL: KIMLEY HORN
11700 Katy Fwy #800 Houston, Tx. 77079
281.920.6571

LANDSCAPE : SWA GROUP
712 Main St, 6th Floor Houston TX 77002
469.525.8731

MEP : INFRASTRUCTURE ASSOCIATES
6117 Richmond Avenue, Suite 200
Houston, Texas 77057
713.622.0120

STRUCTURAL : DALLY ASSOCIATES, INC
9800 Richmond Ave., Suite 600, Houston, TX 77042
713 337 8881

TELECOM/ SECURITY : PGA ENGINEERS
3838 N Sam Houston Pkwy E Houston, TX 77032
832.867.2161

SEALS:

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER: _____ STD/GGD DEPARTMENT: _____
PROJECT MANAGER: _____

STATE OF TEXAS
JAMES M. NORSTROM
PROFESSIONAL ENGINEER
57016
LICENSED
10/29/25
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

DATE: 10/31/2025
WBS NO.: L-000136
SCALE: _____
DRAWN BY: _____
CHECKED BY: _____

SHEET TITLE:
DETAILS

SHEET NO.:
P-501

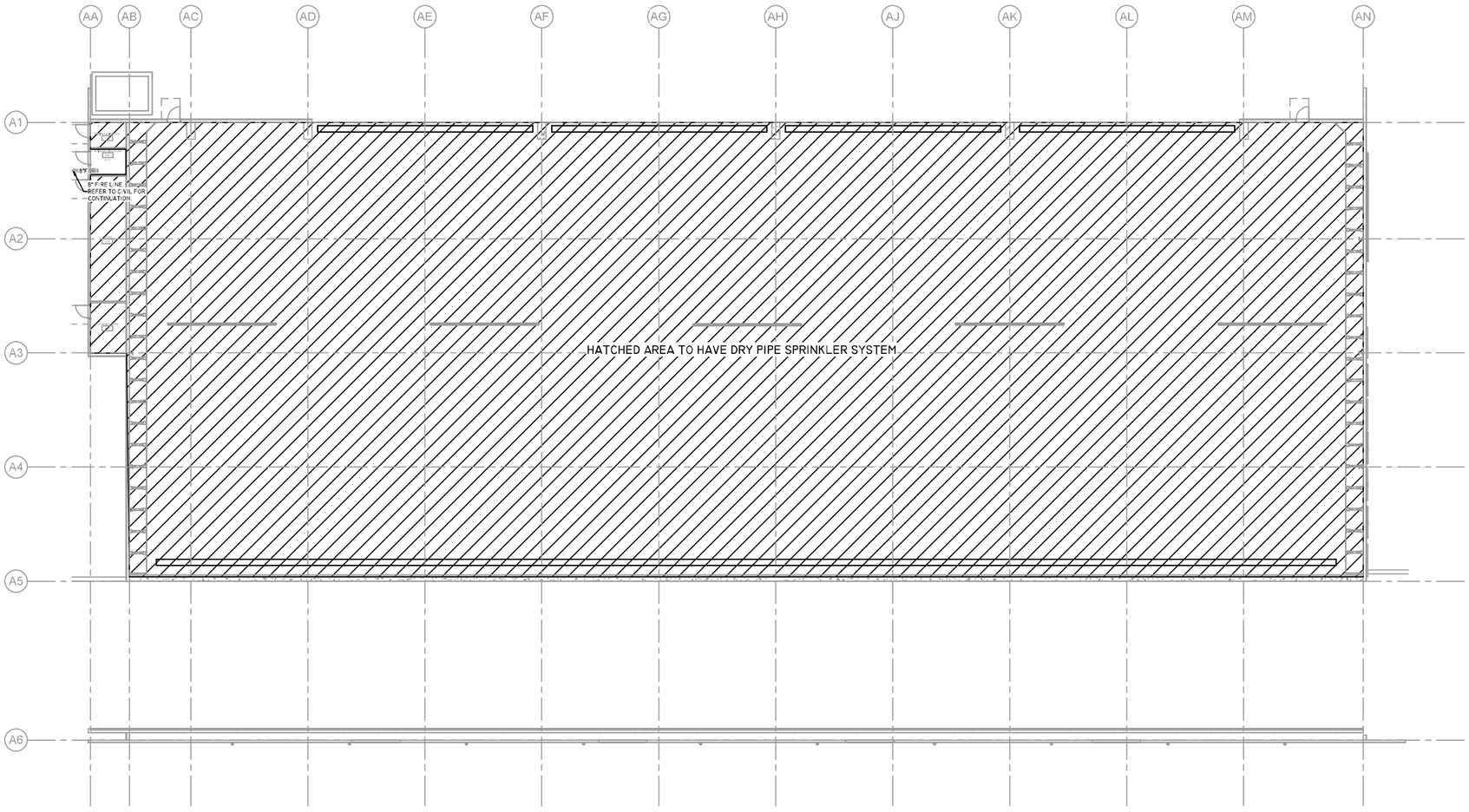
CITY DWG NO.: _____

FIRE PROTECTION NOTES

1. CONTRACTOR SHALL PROVIDE THE HYDRAULIC DESIGN BY A QUALIFIED FIRE PROTECTION ENGINEER IN STATE OF TEXAS. THE CONTRACTOR SHALL SUPPLY AND INSTALL THE SPRINKLER SYSTEM FOR THE ENTIRE AREA. IN ACCORDANCE WITH NFPA 13, NFPA 13R AND CITY OF HOUSTON FIRE DEPARTMENT. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE WORK WITH ALL OTHER SERVICES INCLUDING, BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING, STRUCTURE AND ARCHITECTURE SERVICES.
2. BEFORE INSTALLING ANY SPRINKLER ROWS AND HEADS, COORDINATE WITH OTHER SERVICES AND EQUIPMENT LOCATIONS.
3. MAIN ENTRY PIPING LINE INDICATED ON DRAWINGS IS SHOWN AS GENERAL GUIDE AND DOES NOT REPRESENT ACTUAL BID DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE SYSTEM DESIGN AND INSTALLATION OF ALL THE FACILITY.
4. SPRINKLER SYSTEM SHALL BE WET PIPE SYSTEM FOR INDOOR AREA CO-ORDINATED WITH FIRE AND DETECHTION SYSTEM FOR INTERLOCK. IN ACCORDANCE WITH CODE REQUIRED HAZARD PROTECTION.
5. ALL FIRE PROTECTION PIPING EXPOSED SHALL BE PAINTED RED.

NOTE:

SPRINKLER SHOP DRAWINGS AND HYDRAULIC CALCULATIONS PREPARED BY A LICENSED SPRINKLER CONTRACTOR (TEXAS RME) SHALL BE SUBMITTED TO THE FIRE LOCAL MARSHALL AND OWNER'S INSURANCE CARRIER FOR REVIEW AND APPROVAL. NO WORK SHALL BEGIN UNTIL THE APPROVAL OF BOTH AUTHORITIES INDICATED ABOVE.



1 FLOOR PLAN - TIPPING LEVEL - FIRE PROTECTION
SCALE: 3/32" = 1'-0"

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
800 Sampson St #104 Houston, TX 77003
713.868.3121

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LANDSCAPE : SWA GROUP
712 Main St, 6th Floor Houston TX 77002
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TELECOM/ SECURITY : PGA ENGINEERS
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SEALS:

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER: _____ DESIGNATED DEPARTMENT: _____

PROJECT MANAGER: _____

STATE OF TEXAS
JAMES M. NORSTROM
57016
PROFESSIONAL LICENSED ENGINEER
10/29/25
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

DATE: 10/31/2025
WBS NO.: L-000135
SCALE: _____
DRAWN BY: _____
CHECKED BY: _____

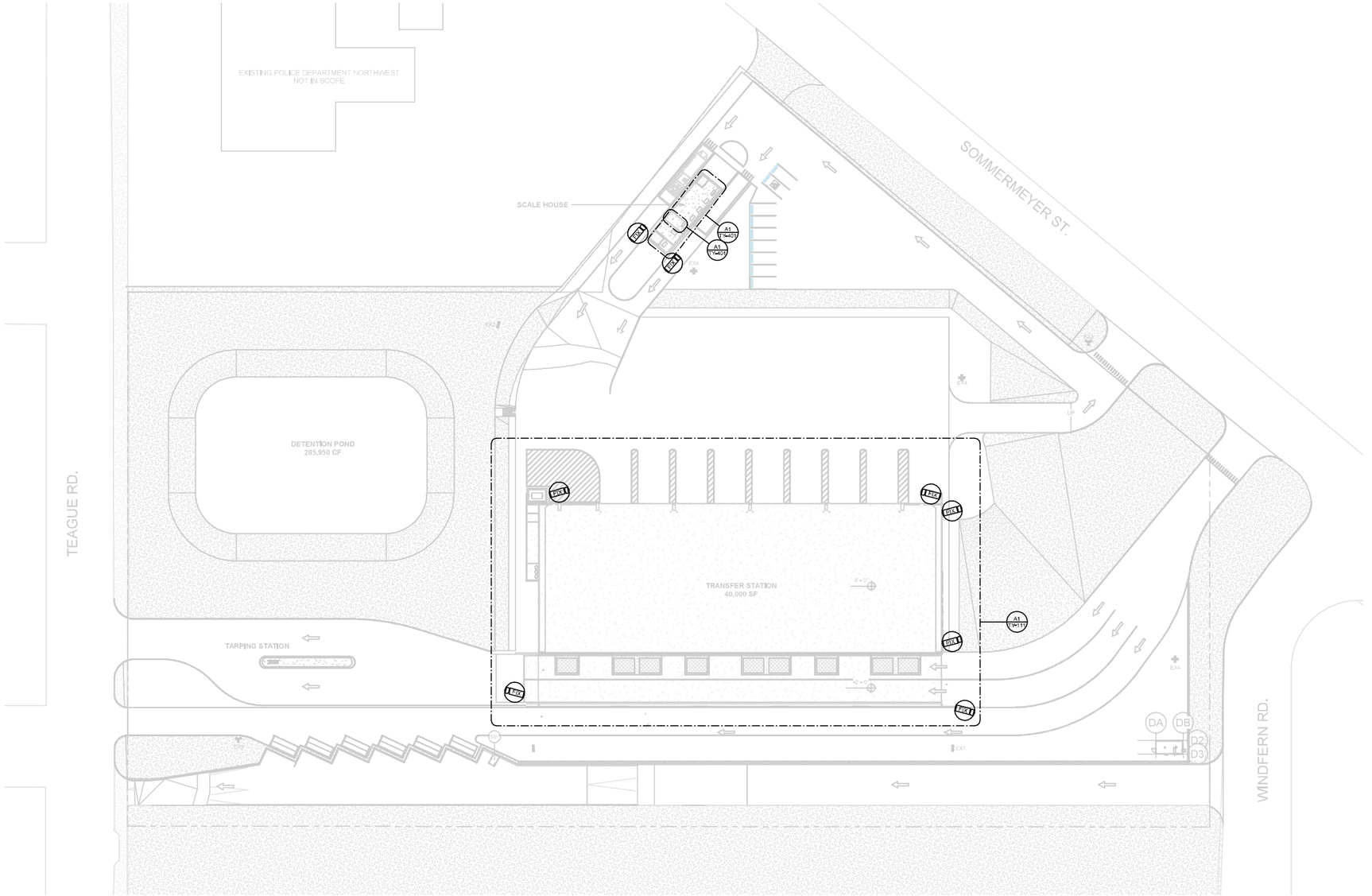
SHEET TITLE:
FIRE PROTECTION

SHEET NO.
FP-101

CITY DWG NO.: _____

GENERAL NOTES:

1. REFER TO GENERAL NOTES, RESPONSIBILITY MATRIX, SYMBOLS, AND ABBREVIATIONS SHEETS FOR ADDITIONAL INFORMATION.
2. SECURITY INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 28 SPECIFICATIONS.



A1 SECURITY - SITE PLAN
SCALE: 1" = 30'-0"

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
800 Sampson St # 104 Houston, TX 77003
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SOLID WASTE PLANNING: TETRA TECH
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936.202.0746

CIVIL: KIMLEY HORN
11700 Katy Fwy #800 Houston, Tx, 77079
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SEALS:

10 /31/2025

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
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CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER _____ DESIGNING DEPARTMENT _____
PROJECT MANAGER _____

JAMES M. NORSTROM
57016
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
02/25/26
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

DATE 10/31/2025
WBS NO. L-000136
SCALE
DRAWN BY:
CHECKED BY:

SHEET TITLE:
SECURITY - SITE PLAN

SHEET NO.:
TY-011

CITY DWG NO.:

Attachment III–7 Surface Water Drainage Design Summary

Kimley»Horn

November 19, 2025

RE: ***City of Houston Northwest Transfer Station – TCEQ Drainage***

To Whom it May Concern:

The City of Houston is planning to redevelop the existing Northwest Transfer Station at 14421 Sommermeyer Street in Houston, TX 77040. Per 30 TAC 330.303, there are requirements that must be maintained. The purpose of this memorandum is to demonstrate that the basis of design requirements for the City of Houston exceed these requirements and that they will be met. Reference plans have been provided as well.

Requirement (a) - A facility must be constructed, maintained, and operated to manage run-on and runoff during the peak discharge of a 25-year rainfall event and must prevent the off-site discharge of waste and feedstock material, including, but not limited to, in-process and/or processed materials

The City of Houston requires that all sites be designed to accommodate the 100-year rainfall event with new development and redevelopment and that all developed areas be routed to a proposed detention system on the site. Secondarily, all new development and redevelopment is subject to provide a storm water quality feature for the site. This development will be required to do so and has a treatment structure at the outfall location, prior to connection to the discharge. The grading plan and storm sewer plan are included as attachments for review of the proposed design to show compliance with the requirement.

Requirement (b) - Surface water drainage in and around a facility shall be controlled to minimize surface water running onto, into, and off the treatment area.

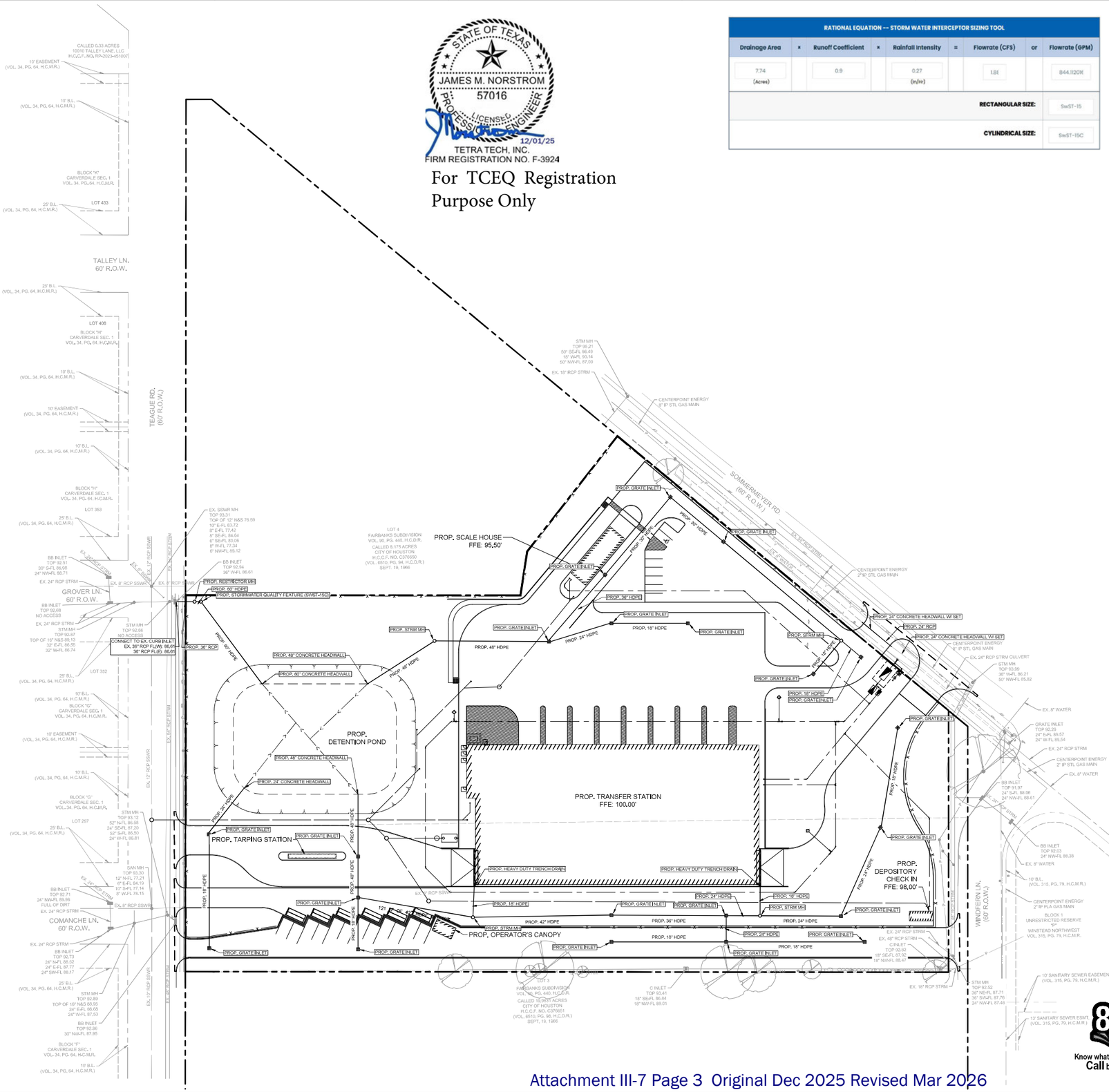
Per the grading plan and storm sewer plan, the development will utilize underground conveyance in a manner to limit the overland sheet flow of water across the site to help convey runoff to the detention pond on the site.

Please contact me at (281) 920-6571 or [redacted] should you have any questions or concerns.

Sincerely,

Kyle Molitor, P.E.
Associate





STATE OF TEXAS
JAMES M. NORSTROM
57016
LICENSED
PROFESSIONAL ENGINEER
12/01/25
TETRA TECH, INC.
FIRM REGISTRATION NO. F-3924

For TCEQ Registration Purpose Only

RATIONAL EQUATION -- STORM WATER INTERCEPTOR SIZING TOOL										
Drainage Area	×	Runoff Coefficient	×	Rainfall Intensity	=	Flowrate (CFS)	or	Flowrate (GPM)		
7.74 (Acres)		0.9		0.27 (in/hr)		1.8		844.1120K		
						RECTANGULAR SIZE:		SwST-15		
						CYLINDRICAL SIZE:		SwST-15C		

GRAPHIC SCALE IN FEET
0 20 40 80

LEGEND	
	PROPERTY LINE
	PROPOSED UTILITY EASEMENT
	EXISTING UTILITY EASEMENT
	PROPOSED STORM LINE
	PROPOSED STORM MANHOLE
	PROPOSED GRATE INLET
	PROPOSED CURB INLET
	PROPOSED WATER LINE
	PROPOSED SSWR LINE
	PROPOSED SSWR MANHOLE
	PROPOSED FIRE HYDRANT
USE	PROPOSED UNDERGROUND ELECTRIC
GAS	PROPOSED GAS LINE
COMM	PROPOSED COMMUNICATIONS LINE
OHE	PROPOSED OVERHEAD ELECTRIC
TEL	PROPOSED TELEPHONE LINE
FIB	PROPOSED FIBER OPTIC LINE
	EXISTING SSWR LINE
	EXISTING WATERLINE
	EXISTING STORM SEWER LINE

STORM SEWER NOTES

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.

2. CONTRACTOR SHALL FIELD VERIFY THE EXACT HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES IN FIELD PRIOR TO COMMENCING CONSTRUCTION. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

3. PUBLIC STORM LINES AS WELL AS CONNECTIONS TO EXISTING PUBLIC LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LOCAL MUNICIPALITIES STANDARD SPECIFICATIONS AND DETAILS WITH ALL ADDENDA AND AMENDMENTS THERETO.

4. STORM PIPE SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:

A) RCP = ASTM C-76 CLASS III - REQUIRED IN PUBLIC RIGHT OF WAY AND CONNECTION POINTS TO PUBLIC STORM SEWER.

B) HDPE = N-12 DUAL WALL PIPE WITH BEDDING AND BACKFILL PER MANUFACTURER RECOMMENDATIONS.

C) PVC = ASTM D 3034 SDR35.

5. ALL EXISTING AND PROPOSED PIPES AND STRUCTURES ARE TO BE CLEANED OUT AT THE COMPLETION OF CONSTRUCTION TO REMOVE ALL SILT AND DEBRIS.

6. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.

7. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. LIDS SHALL BE LABELED "STORM SEWER".

8. TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS, OR TO BE 2'-0" ABOVE THE PROPOSED GRADE ELEVATIONS IN LANDSCAPE AREAS.

9. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR FROM INVERT IN TO INVERT OUT.

CITY OF HOUSTON PRELIMINARY DETENTION INFORMATION		
Tract Size	8.000	ac
Total Existing Impervious Cover	4.598	ac
Total Proposed Impervious Cover	4.625	ac
Redevelopment Detention Rate	0.40	ac.ft./ac.
New Development Detention Rate	0.80	ac.ft./ac.
Required Detention Volume	1.861	ac.ft.
Required Detention Volume	81,047	cf
Proposed Detention Bottom Width	170	ft
Proposed Detention Bottom Length	115	ft
Proposed Detention Pond Depth	5	ft
Total Approximate Proposed Detention Volume	117,960	cf
Total Proposed Detention Volume	2.708	ac.ft.

811 Know what's below. Call before you dig.

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

ISSUE LOG

DATE	DESCRIPTION
10/13/2025	SD Cost Estimate
10/31/2025	SD

CONSULTANTS:

ARCHITECT: RDLR ARCHITECTS, INC.
800 Sampson St #104 Houston, TX 77003
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77042
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TELECOM/ SECURITY : PGA ENGINEERS
3838 N Sam Houston Pkwy E Houston,
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SEALS:

PRELIMINARY
FOR REVIEW ONLY NOT FOR CONSTRUCTION OR PERMIT PURPOSES.
Kimley»Horn
Engineer: KYLE MOLITOR
P.E. No.: 126028
Date: 10/28/2025

PROJECT NAME:
NORTH WEST TRANSFER STATION
14421 SOMMERMEYER ST
HOUSTON, TX 77041

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER: SPONSORING DEPARTMENT:
PROJECT MANAGER:

DATE: 10/28/2025
WBS NO.: L-000136
SCALE: AS NOTED
DRAWN BY: SGY
CHECKED BY: KLM

SHEET TITLE:
STORM SEWER PLAN

SHEET NO.:
C-700

CITY DWG NO.:

Type V Registration Application No. 40348
Northwest Transfer Station
14421 Sommermeyer Street, Houston, Texas

Part IV
Site Operating Plan

Prepared for:

City of Houston General Services and Solid Waste Management Departments

611 Walker Street, Houston, Texas 77002

Prepared by:

TETRA TECH

STATE OF TEXAS
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FIRM REGISTRATION NO. F-3924

TBPELS Registration No. F-3924

1500 CityWest Boulevard, Suite 1000, Houston, TX 77042

936-202-0746

Original December 2025 , Revised March 2026



Part IV
Type V Transfer Station Registration Application
Houston, TX

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1.0 INTRODUCTION

This Site Operating Plan (SOP) for the Northwest Transfer Station is based on 30 TAC 330, Subchapter E. The proposed facility will be a Type V municipal solid waste transfer station owned and operated by the City of Houston (COH). The purpose of this SOP is to provide general operating instructions to site management and operating personnel to maintain compliance with the engineering design and applicable TCEQ requirements, to protect human health and the environment, and to prevent nuisances. This plan is organized to follow 30 TAC 330.201-249 (Subchapter E). The plan should be used for personnel training. This SOP, the registration application, registration issued by the TCEQ, and current TCEQ regulations will be kept onsite for as long as the facility operates.

If the facility manager becomes aware of any condition in the approved SOP which necessitates a variation from the SOP to accommodate new technology or improved methods, the owner will submit a revised SOP to the TCEQ, which may require a modification to the Transfer Station registration in accordance with 30 TAC 305.70 or an amendment in accordance with 30 TAC 305.62. The facility will not implement any revised changes to the SOP without written approval of the modification or amendment by the TCEQ.

1.1 General Facility Design

The transfer station site includes the transfer station building with dual loading tunnels, a gatehouse with two scales, a radio equipment building, an optional office/break room trailer, service drives, a fire suppression system, a lift station for contaminated water, a stormwater drainage system, and a perimeter fence with locking gates. The transfer station building is a split-level structure with an above-grade waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) handling area and below-grade loading tunnels with scales. The building footprint will be about ~~40,000~~38,640 square feet with concrete floors, concrete or steel push walls, steel framing, metal exterior panels, and a roof. The transfer station building contains a mechanical room, electrical room, sprinkler riser room, IT/Data room, and a storage room. Site and building layout drawings are included as Attachments III-1 through III-6.

The tipping floor area will be about 30,000 square feet and be used for waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) unloading, processing, storage, and loading. The only effluent resulting from the processing operations will be the wash water from tipping floor cleaning. Wash water will be directed toward the loading tunnel where it will be collected by grated drains. An oil/water separator and monitoring manhole will be located near the loading tunnels, outside of the building and near a City of Houston sanitary sewer connection for disposal.

Source-Separated Recyclable Material (30 TAC 328.2(6)) is acceptable and when accepted and managed on the tipping floor, no waste will be allowed on the tipping floor. Similarly, when waste is managed on the tipping floor, Source-Separated Recyclable Material will not be allowed on the tipping floor. The tipping floor will be washed down before changing from management of waste to Source-Separated Recyclable Material and before changing from management of Source-Separated Recyclable Material to waste. The tipping floor is shown in Attachment III-4, Sheet A-112.

The transfer station features a metal roof structure that covers the reinforced concrete tipping pad used for waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) processing and storage as well as a loading tunnel for the transfer trucks. The building is enclosed on all four sides with approximate door heights of 29 feet for collection trucks and 22 feet for transfer trucks. Doors along the north wall will allow route trucks to turn around on the concrete pad north of the building, back into the building, unload onto the

tipping floor, and exit through the door they entered. The transfer station boundary is completely enclosed by a chain-link fence.

1.2 General Facility Operation

Waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) will be delivered to the transfer station in collection trucks (front, rear, and side loaders) and in roll-off trucks. It is possible that the public will be allowed to unload at the transfer station. Waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) collection vehicles will enter from Sommermeyer Street, be weighed at the scale house, and be directed to the transfer station building. Acceptable waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) will be unloaded onto the tipping floor, inspected for prohibited wastes, then loaded into transfer trailers parked in the loading tunnels. Once the transfer trailer is full (based on weight indicated by scales in the tunnel or volume), the transfer tractor and trailer will proceed to the tarping station and then offsite to a permitted disposal facility.

1.3 General Facility Personnel

Facility Manager

The manager will:

- Be responsible for overall facility management and assure that adequate personnel and equipment are available to operate in accordance with the SOP and TCEQ regulations
- Have the authority and responsibility to reject unauthorized wastes and have them removed from the site
- Be responsible for conducting daily operations, administering the facility's SOP, and serving as the emergency coordinator
- Operate equipment when necessary and designate an alternate in their absence who is capable of fulfilling their responsibilities
- Hold a TCEQ Class A or B MSW Operators License
- Ensure that the SOP is maintained as required by regulation and by the plan
- Ensure that all site operating personnel are trained in operating plans and TCEQ regulations

According to 30 TAC 335.586(a) and (c), personnel must successfully complete a program of classroom instruction or on-the-job training that teaches them to perform their duties in a way that ensures compliance with the regulations and attend annual reviews of their initial training. The transfer station manager must ensure that the training program includes all the elements to comply with 30 TAC 335.586(d)(3). The program must be directed by a person trained in waste management procedures and must include procedures relevant to the specific positions. The training program must be designed to ensure that facility personnel are able to respond effectively to emergencies including fire prevention and firefighting techniques -by familiarizing them with emergency procedures, equipment, and systems. Personnel training records will be maintained in the operating record and will include evidence of successful completion, type of training, instructor's name, and date.

Equipment Operators

Equipment operators are responsible for the safe operation of equipment and for being alert to potentially dangerous conditions and improper actions of non-employees and other persons. Equipment operators monitor and direct unloading vehicles and are also responsible for maintenance, construction, litter abatement, and general site cleanup. They are authorized to intervene if necessary to prevent accidents and report unsafe conditions to the manager. Their daily responsibilities may include loading materials into transfer trailers, monitoring scale weights as trailers are loaded, and sweeping the tipping floor. The

minimum qualifications for equipment operators are the demonstrated abilities to operate equipment and perform other duties in a safe and effective manner. The transfer station manager or designated representative will supervise the equipment operations.

Scale House Attendants

The scale house attendants will manage the scale house while the facility is open, control site access and incoming waste or Source-Separated Recyclable Material (30 TAC 328.2(6)), dispense information on the proper use of the site, assess tipping fees, and direct vehicles to the transfer station building. The minimum qualifications are the abilities to perform assigned duties in a safe and effective manner. The transfer station manager will supervise the attendants.

Laborers

Laborers will provide general operations support at the transfer station which will include:

- Checking for unauthorized materials
- Sweeping the operations areas using manual equipment
- Performing facility wash-down
- Collecting and disposing of windblown litter
- Performing general equipment and building maintenance
- Directing vehicles in the unloading areas

Other site personnel or laborers may be employed from time to time in categories such as maintenance, construction, litter abatement, and general site cleanup. The minimum qualifications for laborers are the abilities to perform assigned duties in a safe and effective manner. The manager and equipment operators will supervise the laborers.

During night operations, adequate personnel will be scheduled as needed for safe operations. Proper lighting will be provided in and around the transfer station building, the scale house, and security gates. The facility will comply with applicable federal, state, and local worker health and safety issues.

The number and types of personnel will depend on the rate of incoming waste or Source-Separated Recyclable Material (30 TAC 328.2(6)). At a minimum, one scale house attendant, one equipment operator, and a manager will always be present. Additional personnel will be available as required.

1.4 Training

Facility personnel will be trained to inspect vehicles and identify regulated hazardous waste, PCB waste, and other prohibited wastes. The gate attendant and equipment operators will be trained in inspection procedures for prohibited waste. Supervisors will provide personnel with on-the-job training. Records of employee training on prohibited waste control procedures will be maintained in the facility operating record.

1.5 General Facility Equipment

Sufficient equipment will be provided to conduct site operations according to the design and operating conditions of the Site Development Plan (SDP) and this SOP.

Heavy equipment will consist of at least a loader, excavator, and transfer trailers.

- The loader will push waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) across the floor and against the push walls to compact the materials.
- Excavators with grapple attachments will move waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) from the tipping floor into transfer trailers

- Transfer trailers will receive waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) from the tipping floor and will be positioned in the tunnel. After the transfer trailers are loaded and covered, they will be inspected to ensure that they are free of clinging trash and are not leaking before driving to the tarping station.

Equipment will be maintained, repaired, replaced, or supplemented as required for effective and compliant operations. Emergency back-up equipment will be rented or will be available from other COH solid waste facilities. Additional equipment may be used based on operational considerations. Equipment requirements and further characteristics are summarized below.

Equipment Type	Minimum Number	Size or Model	Purpose
Front End Loader (rubber tire or track)	1	CAT 924, CAT 933, or equal	Tipping floor waste or Source-Separated Recyclable Material moving, stockpiling, compacting
Excavator (with grapple)	1	CAT 320 or equal	Waste or Source-Separated Recyclable Material moving, stockpiling, loading
Transfer Trailers	21 (assumes 2k tpd, 4 trips) The actual number of transfer trailers will depend on the waste and SSRM intake rate	24-ton capacity	Transport waste or Source-Separated Recyclable Material to disposal facilities and material recovery facilities

1.5.1 Equipment for Emergencies

All heavy equipment and the building will be equipped with fire extinguishers. A fire hydrant is located about 50 feet west of the transfer station property on the south side of Sommermeyer Street. A first-aid kit will be maintained at the transfer station building. Workers will be provided with and required to wear PPE (hard hats, safety glasses, and dust masks).

2.0 WASTE ACCEPTANCE AND ANALYSIS 30TAC330.203

The Northwest Transfer Station is a Type V facility which will be authorized to accept municipal solid waste (MSW) and Source-Separated Recyclable Material (30 TAC 328.2(6)) and Class 2 and 3 non-hazardous industrial waste when properly identified and provided it does not interfere with operations. Based on the list of acceptable waste and Source-Separated Recyclable Material below, there are no limiting waste constituents or characteristics that may impact the design and operation of the facility. Therefore, the parameter limitations, as required by 30 TAC 330.203(a) are not applicable to this facility.

The applicant/owner/operator shall comply with the requirements of 30 TAC330.205(a). The operator shall specify the characteristics and constituent concentrations of wastes generated by the facility and shall provide documentation that all wastes leaving the facility can be adequately managed by facilities that are licensed or

permitted by the appropriate agencies to receive such wastes at the volumes and concentrations estimated in the facility design.

2.1 Waste and Source-Separated Recyclable Material (30 TAC 328.2(6)) Sources and Characteristics

The facility is expected to accept the following waste and Source-Separated Recyclable Material as defined in 30 TAC §330.3:

Primary Waste Types

The sources of Primary Waste Types accepted by the proposed transfer station will be municipal, commercial, and industrial sources in the City of Houston, Harris County and possibly surrounding counties.

- Municipal Solid Waste - Resulting from municipal, community, commercial, institutional, and recreational activities, including garbage, rubbish, ashes, street cleanings, abandoned automobiles, and all other solid waste other than industrial solid waste
- Putrescible Waste - Organic wastes, such as garbage, that are capable of being decomposed by microorganisms with sufficient rapidity as to cause odors or gases or are capable of providing food for or attracting birds, animals, and disease vectors
- Rubbish – Non-putrescible solid waste (excluding ashes) consisting of both combustible and noncombustible waste materials.
    - Combustible rubbish includes paper, rags, cartons, wood, excelsior, furniture, rubber, plastics, brush, or similar materials
    - Noncombustible rubbish includes glass, crockery, tin cans, aluminum cans, and similar materials that will not burn at ordinary incinerator temperatures (1,600 degrees Fahrenheit to 1,800 degrees Fahrenheit)
- Yard Waste - Leaves, grass clippings, garden debris, and brush, including clean woody vegetative material not greater than six inches in diameter that results from landscaping maintenance and land-clearing operations, excluding stumps, roots, or shrubs with intact root balls
- Construction or demolition (C & D) Debris - Waste resulting from construction or demolition projects which includes all materials that are the by-products of construction work or that result from demolition of buildings and other structures, including paper, cartons, gypsum board, wood, excelsior, rubber, and plastics

Other Waste Types

The sources of Other Waste Types accepted by the proposed transfer station will be municipal, commercial, and industrial sources in the City of Houston, Harris County and possibly surrounding counties.

- Class 2 industrial Wastes - Any individual solid waste or combination of industrial solid waste that are not described as Hazardous, Class I, or Class 3 as defined in 30 TAC 335.506
- Class 3 Industrial Wastes - Inert and essentially insoluble industrial solid waste, usually including materials such as rock, brick, glass, dirt, certain plastics and rubber that are not readily decomposable, as further defined in 30 TAC 335.507
- Tires that are, at minimum, split in half or quartered

Source-Separated Recyclable Material:

The sources of Source-Separated Recyclable Material accepted by the proposed transfer station will be municipal, commercial, and industrial sources in the City of Houston, Harris County and possibly surrounding counties.

- As defined in 30 TAC Chapter 328.2(6) - Source-separated recyclable material is recyclable material from residential, commercial, municipal, institutional, recreational, industrial, and other community

activities, that at the point of generation has been separated, collected, and transported separately from municipal solid waste, or transported in the same vehicle as municipal solid waste, but in separate containers or compartments. Source-separation does not require the recovery or separation of non-recyclable components that are integral to a recyclable product, including:

- (A) the non-recyclable components of white goods, whole computers, whole automobiles, or other manufactured items for which dismantling and separation of recyclable from non-recyclable components by the generator are impractical, such as insulation or electronic components in white goods;
- (B) source-separated recyclable material rendered unmarketable by damage during collection, unloading, and sorting, such as broken recyclable glass; and
- (C) tramp materials, such as:
  - (i) glass from recyclable metal windows;
  - (ii) nails and roofing felt attached to recyclable shingles;
  - (iii) nails and sheetrock attached to recyclable lumber generated through the demolition of buildings; and
  - (iv) pallets and packaging materials.

~~The proposed transfer station plans to serve the City of Houston and Harris County but may serve other counties.~~

The facility will not accept the following wastes:

- Special wastes, other than Class 2 and Class 3 industrial wastes
- Special waste from health-care-related facilities
- Waste from commercial or industrial waste-water treatment plants, air pollution control facilities, and tanks, drums, or containers used for shipping or storing any material that has been listed as a hazardous constituent in 40 CFR Part 261, Appendix VIII but has not been listed as a commercial product in 40 CFR, 261.33(e) or (f)
- Slaughterhouse wastes
- Dead animals
- Pesticide (insecticide, herbicide, fungicide, or rodenticide) containers in accordance with 30 TAC 330.136(b)(5)
- Discarded materials containing asbestos
- Incinerator ash
- Soil contaminated by petroleum products, crude oils, or chemicals
- Hazardous wastes
- Polychlorinated biphenyls (PCB) waste
- Radioactive waste
- Unknown chemical or containerized waste
- Class 1 non-hazardous industrial waste
- Regulated Asbestos Containing Materials (RACM)
- Lead acid storage batteries
- Do-it-Yourself (DIY) used motor vehicle oil
- Used oil filters from internal combustion engines
- Whole used or scrap tires.
- Items containing chlorinated fluorocarbons (CFC's), such as refrigerators, freezers, and air conditioners, will only be accepted at the site if the generator or transporter provides written

certification that the CFC has been evacuated from the unit and that it was not knowingly allowed to escape into the atmosphere

- Liquid waste (any waste material that is determined to contain "free liquids" as deemed by EPA Method 9095 (Paint Filter Test), as described in "Test Methods for Evaluating Solid Wastes, Physical Chemical Methods" (EPA Publication Number SW-846)) shall not be accepted unless it is bulk or non-containerized liquid waste that is household waste other than septic waste, or liquid waste in a small container similar in size to that normally found in the household waste and the container is designated to hold liquids for use other than storage, or the waste is a household waste.

2.2 Measures for Controlling Prohibited Wastes

To address the detection and prevention of regulated hazardous wastes as defined in 40 CFR Part 261 and of PCB waste as defined in 40 CFR Part 761, a Waste Screening Plan (WSP) and exclusion program will be implemented at the transfer station. The purpose of the program is to:

1. Prevent the entry and disposal of unauthorized wastes
2. Protect the site personnel and customers
3. Comply with TCEQ regulations
4. Protect the site and surrounding areas from contamination from unauthorized wastes
5. Implement procedures for the detection and exclusion program

Procedures to detect and control prohibited wastes include:

- Informing facility customers of prohibited wastes by posting signs at the facility entrance
- Providing customers with a written list of prohibited wastes
- Informing all drivers of incoming waste hauling vehicles that the following information is available
    - Posting one or more signs at the facility entrance listing prohibited wastes
    - Providing all vehicle drivers and transfer station operators with a list of prohibited wastes
- Training facility personnel responsible for inspecting or observing incoming loads to recognize unauthorized waste
- Conducting random inspections of incoming loads
- Maintaining records of all inspections
- Notifying the TCEQ of any incident involving a regulated hazardous waste or a PCB waste
- Remediating any regulated hazardous waste or PCB waste discovered at the facility in accordance with §335.349.

Facility personnel will be trained to inspect vehicles and identify regulated hazardous waste, PCB waste, and other prohibited wastes. The gate attendant and equipment operators will be trained in inspection procedures for prohibited waste. Supervisors will provide personnel with on-the-job training. Records of employee training on prohibited waste control procedures will be maintained in the facility operating record. Personnel will be trained to look for the following indications of prohibited waste:

- Yellow hazardous waste or PCB labels
- DOT hazard labels or placards
- Liquids
- 55-gallon drums and 85-gallon overpack drums
- Powders or dusts
- Odors or chemical fumes
- Bright or unusual colored wastes
- Sludges

If transfer station personnel identify any of the above indicators, they will direct the load to an area out of the flow of traffic for further evaluation. If the load is determined to contain prohibited waste, the load will be rejected and directed back to the generator. Gate attendants will evaluate waste loads from potential sources of prohibited waste such as industrial facilities, electronics manufacturers, electronic companies, metal plating industry, automotive and vehicle repair companies, and drycleaners.

2.2.1 Load Inspection Procedure

An operator in the transfer station visually inspects all incoming loads. If there is an indication of prohibited waste, trained personnel will evaluate the load. The driver will be directed to a load inspection area where the load is discharged from the vehicle. The inspector breaks up the waste or Source-Separated Recyclable Material pile and inspects the material for prohibited waste. Facility personnel flag suspicious wastes and may collect samples for testing. Known prohibited waste is placed back in the vehicle and the driver is instructed to leave the site. If regulated hazardous waste be detected, the entire load will be rejected.

Reports of load inspections will be completed for each inspection, and will include the date and time of inspection, the name and address and driver of the hauling company, type of vehicle, size and source of the load, contents of the load, indicators of prohibited waste, and results of the inspection.

The TCEQ will be notified whenever regulated hazardous or PCB waste is detected and a record of the notice will be placed in the site operating record and include the date and time of notification, the individual contacted, and the information reported.

Additionally, incoming loads will be inspected on a random basis. At a minimum, the transfer station will randomly inspect one percent of all incoming loads, and no less than one inspection per day. The driver of a randomly selected load will be notified at the scale house and instructed to proceed to the inspection area. An operator will visually inspect the load and complete an inspection report.

2.2.2 Managing Prohibited Wastes

Unknown wastes undergoing analysis will be segregated and protected against the elements, secured against unauthorized removal, and isolated from other waste.

Known prohibited wastes will be returned immediately to the hauler. If the hauler is not available, the waste will be placed in suitable collection containers until the hauler is contacted and returns to remove the load. If identification of the source is not possible, the transfer station will ensure that the waste is disposed of properly. The waste will not be allowed to remain on the site in containers for more than 48 hours.

If regulated hazardous or PCB wastes are detected, the TCEQ will be notified. As soon as practical, the hauler will be required to remove the hazardous waste from the site. Prior to removal, the hauler must obtain an EPA identification number, package the waste in accordance with TxDOT regulations, and manifest the waste designating a permitted facility to treat, store, or dispose of the hazardous waste.

2.3 Waste and Source-Separated Recyclable Material Acceptance Rate

The projected amount of waste or Source-Separated Recyclable Material to be received daily and annually for the next five years of the facility operation is presented below. The daily waste or Source-Separated Recyclable Material acceptance rate will range from approximately 500 tons per day to approximately 2,000 tons per day. The estimated waste or Source-Separated Recyclable Material acceptance rate may fluctuate during the life of the facility and should not be considered a limit. In the event that the facility operating and storage capacity is approaching the maximum, the operator will temporarily stop accepting waste or source-

separated recyclable material and direct incoming vehicles to other permitted transfer, disposal, or recycling facilities that are appropriate for the material they are transporting until the transfer station again has the capacity to accept waste or source-separated recyclable materials.

If the transfer station becomes inoperable for periods longer than 24 hours, the operator will notify haulers that typically use the transfer station that the facility is temporarily closed and direct them to other permitted transfer, disposal, or recycling facilities that are appropriate for the material they are transporting until the transfer station reopens.

2.4 Waste or Source-Separated Recyclable Material Storage and Processing Time

The daily waste or Source-Separated Recyclable Material acceptance rate will range from about 500 tons per day to approximately 2,000 tons per day. The estimated waste or Source-Separated Recyclable Material acceptance rate may fluctuate during the life of the facility and should not be considered a limit.

The maximum volume of waste or Source-Separated Recyclable Material that will be stored at any given time is 2,000 tons. All waste or Source-Separated Recyclable Material storage or holding will occur within the building. Solid waste or Source-Separated Recyclable Material will be stored on average for four hours and a maximum of six hours while being processed. The solid waste or Source-Separated Recyclable Material will not be allowed to accumulate long enough to allow the creation of nuisances or public health hazards due to odors, fly breeding, or harborage of other vectors. Storage periods significantly above average that are caused by equipment breakdowns will only be permitted for the time required to repair or replace the malfunctioning equipment. The maximum holding time under these circumstances will not exceed 48 hours with an average holding time of 24 hours. During periods such as holidays, the solid waste or Source-Separated Recyclable Material may be temporarily stored at the site not to exceed 72 hours.

These maximums were developed in accordance with the requirements of the Closure Cost Estimate as further described in Part III. These maximums will consist only of unprocessed materials on the tipping floor or waste or Source-Separated Recyclable Material being held or stored in the building in the event of equipment breakdown.

2.5 Waste Disposal and Source-Separated Recyclable Material Transport

All acceptable waste received will be landfilled at a Type I landfill in the Houston area permitted by the TCEQ. Source-Separated Recyclable Material will be accepted, unloaded on the tipping floor, and reloaded into trucks for transport to material recovery facilities. Waste and Source-Separated Recyclable Material will not be allowed on the tipping floor at the same time and the floor will be washed down before transitioning from one material to the other.

The justification for the 10 percent recycled material requirement allowing a Type V registration application versus a permit application is explained in Parts I/II Section 1.1.

Whole scrap tires will be removed from the waste stream and disposed of or recycled according to 30 TAC Chapter 328. Whole or scrap tires will be transported to a local registered scrap tire processor. Tires that are split in half or quartered are allowed at Type I landfills. Special wastes, liquid wastes, hazardous wastes, and PCB wastes will not be accepted.

2.6 Waste and Effluent Testing

The transfer station will not accept or process grit trap wastes or sludges, therefore 30 TAC 330.203(c)(2) does not apply and waste and effluent sampling and testing is not required.

Contaminated water from washing the tipping floor and any other water that has contacted waste or Source-Separated Recyclable Material will flow to drains in the loading tunnel that lead to an oil/water separator before flowing to the City of Houston sanitary sewer, so the effluent testing requirements in 30 TAC 330.203(c)(l) apply.

The transfer station permittee will establish the method of sampling and testing for the contaminated water. The method of sampling, the frequency of sampling, and the tests shall be part of the sampling and analysis plan. All sampling and analysis shall be done according to approved USEPA methods. Records shall be maintained for a three-year period.

Sludge from the oil/water separator that is disposed of at a municipal solid waste landfill will be analyzed annually for benzene, lead, and TPH. At a minimum, effluent (contaminated water) from the transfer station will be analyzed annually for TPH, fats, oil and grease, and pH. Lab reports will be maintained at the facility for at least three years. All sampling and analysis shall be done according to EPA-approved methods.

3.0 FACILITY-GENERATED WASTE 30TAC330.205

The applicant/owner/operator shall comply with the requirements of 30 TAC330.205(a). The operator shall specify the characteristics and constituent concentrations of wastes generated by the facility and shall provide documentation that all wastes leaving the facility can be adequately managed by facilities that are licensed or permitted by the appropriate agencies to receive such wastes at the volumes and concentrations estimated in the facility design.

Wastes generated by the transfer station include the following:

- Restroom wastes – disposal into the City of Houston sanitary sewer. The constituents will be typical of residential wastewater
- Tipping floor washdown water – described below
- Sludge from the oil/water separator – described in Section 2.6 above

The applicant/owner/operator shall comply with the requirement of 30 TAC 330.205(d). The facility shall be designed and operated in a manner that sludges produced pass the Paint Filter Liquids Test, (United States Environmental Protection Agency (EPA) Method 9095) as described in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods". The facility shall be designed and operated to produce a sludge that is acceptable at municipal solid waste landfills and does not exceed the following standards. Sludges exceeding these limits shall not be disposed in municipal solid waste landfills and must be sent to an authorized facility for further processing or disposal as a hazardous waste or non-hazardous liquid waste, as appropriate or disposed in a municipal solid waste landfill with dedicated Class 1 industrial solid waste cells if the sludge is nonhazardous.

Contaminant	Total Limit	TCLP Limit
Benzene	10 milligrams per kilogram (mg/kg)	0.5 milligrams per liter (mg/L)
Lead	30 mg/kg	1.5 mg/L
Total petroleum hydrocarbons (TPH)	1,500 mg/kg	not applicable

4.0 CONTAMINATED WATER MANAGEMENT 30TAC330.207

The applicant/owners/operator shall comply with the requirements of 30 TAC 330.207(f). Wastewaters discharged to a treatment facility permitted under Texas Water Code, Chapter 26 must not:
(1) Interfere with or pass-through the treatment facility processes or operations;
(2) Interfere with or pass-through its sludge processes, use, or disposal; or
(3) Otherwise be inconsistent with the prohibited discharge standards, including 40 Code of Federal Regulations Part 403, General Pretreatment Regulations for Existing and New Source Pollution.

The applicant/owners/operator shall comply with the requirements of 30 TAC 330.207(g). The daily effluent design standard for oil and grease concentration leaving the facility and entering a public sewer system shall not exceed 200 milligrams per liter, the concentration established in the wastewater discharge permit pretreatment limit, or the concentration established by the treatment facility permitted under Texas Water Code, Chapter 26, the National Pollutant Discharge Elimination System, or the following liquid effluent limits, if the discharge points do not require compliance with locally set limits.

Effluent Characteristics	**Effluent limitations**	
	Maximum for any one day:	Average of daily values for 30 consecutive days shall not exceed:
	Metric units (kilograms (kg)/1,000 kg of raw material)	
Oil and grease	0.10	0.05
Total petroleum hydrocarbons (TPH)	0.01	0.01
pH	5.5 - 10.5	5.5 - 10.5
	English units (pounds (lbs)/1,000 lb of raw material)	
Oil and grease	0.10	0.05
TPH	0.01	0.01
pH	5.5 - 10.5	5.5 - 10.5

All liquids resulting from the operation of the transfer station will be disposed of in a manner that will not cause surface water or groundwater pollution. The storm water management plan designed to minimize and route storm water away from the tipping floor will provide surface water protection, thus minimizing the generation of contaminated water.

Contaminated water from washing the tipping floor and any other water that has contacted waste or Source-Separated Recyclable Material will flow to drains in the loading tunnel that lead to an oil/water separator before flowing to the City of Houston sanitary sewer.

Uncontaminated water is any water that has not contacted waste or Source-Separated Recyclable Material (referred to as storm water, clean storm water, surface water, and uncontaminated surface water). Contaminated water is any water that has contacted waste or Source-Separated Recyclable Material (eg. Wash water from the tipping floor).

Solid waste or Source-Separated Recyclable Material processing operations will be conducted on a concrete-paved area inside the transfer station building. Therefore, contact of storm water with waste or Source-Separated Recyclable Material is minimized. Wash water will not be allowed to accumulate on the tipping floor which will be sloped toward the loading tunnel. Wash water in the loading tunnel floor will be collected via grated drains, flow through an oil/water separator and monitoring manhole, and be disposed of in the City of Houston sanitary sewer system.

5.0 STORAGE REQUIREMENTS 30TAC330.209

Waste or Source-Separated Recyclable Material will be stored in such a manner that does not constitute a fire, safety, or health hazard and shall be contained or bundled so as not to produce litter. All waste or Source-Separated Recyclable Material storage or holding will occur within the building.

The transfer station plans to receive or store Source-Separated Recyclable Material but does not plan to recover material from solid waste.

30 TAC 330.209(b) states: "An on-site storage area for source-separated or recyclable materials will be provided that is separate from a transfer station or process area. Control of odors, vectors, and windblown waste from the storage area shall be maintained." The Northwest Transfer Station will either accept and manage waste or Source-Separated Recyclable Material but not at the same time. If necessary, either waste or Source-Separated Recyclable Material will be stored temporarily in the transfer station building, but both materials will not be stored at the same time.

Disease vectors, such as flies and rodents, will be controlled by minimizing the accumulation of waste or Source-Separated Recyclable Material or wastewater in the building. An exterminator will be contracted to spray or place traps at least twice per year to control vectors. Additional treatments will be scheduled as needed.

6.0 APPROVED CONTAINERS 30TAC330.211

All waste or Source-Separated Recyclable Material storage or holding will occur inside the building. No storage of waste or Source-Separated Recyclable Material materials will occur outside of the building.

Transfer trailers and containers holding non-allowable waste and Source-Separated Recyclable Material awaiting evaluation or transport will be maintained in a clean condition so that they do not constitute a nuisance and to retard the harborage, feeding, and propagation of vectors. All containers to be emptied manually will be capable of being serviced without the collector coming into physical contact with the solid waste or Source-Separated Recyclable Material. Containers to be mechanically handled will be designed to prevent spillage or leakage during storage, handling, or transport.

7.0 CITIZEN'S COLLECTION STATION 30TAC330.213

The Northwest Transfer station has a Neighborhood Waste Depository that has operated when the prior transfer station operated and has continued to operate since the transfer station was de-activated in 2023. The current Waste Depository is located near the intersection of Sommermeyer Street and Windfern Road. The proposed location is shown in see Attachment III-1, Sheet A-011.

The following requirements of 30 TAC 330.213 will continue to apply

> (a) Citizen's collection stations shall be provided with the type and quantity of containers compatible with the areas to be served. Rules shall be posted governing the use of the facility to include who may use it, what may or may not be deposited, etc. The responsible person that owns or operates the collection center shall provide for the collection of deposited waste on a scheduled basis and supervise the facility in order to maintain it in a sanitary condition.
>
> (b) A citizen's collection station may accept sharps from single-family or multi-family dwellings, hotels, motels, or other establishments that provide lodging and related services for the public. The sharps will not be considered medical waste, as defined in § 330.3 of this title (relating to Definitions).

8.0 REQUIREMENTS FOR STATIONARY COMPACTORS 30TAC330.215

The transfer station will not use a stationary compactor, therefore the requirements of 30 TAC 330.215 do not apply.

9.0 PRE-OPERATION NOTICE 30TAC330.217

The transfer station will not operate a mobile liquid processing unit or perform any liquid waste processing. Therefore, the requirements of 30 TAC 330.217 do not apply.

10.0 RECORD-KEEPING AND REPORTING REQUIREMENTS 30TAC330.219

The applicant shall comply with the following regulations: 30 TAC 330.673(c) – Facilities or processes not included in the scope of subsections (a) and (b) of this section shall be considered "facilities and processes not for disposal" and are not required to pay a fee to the TCEQ, but are required to submit reports. Facilities and processes not for disposal are those facilities that are permitted or registered independently from landfill, incinerator, or disposal processing operations and include transfer stations.

The applicant shall comply with the following regulations: 30 TAC 330.675(b) - (b) Facilities and processes not for disposal (as defined in § 330.673(c) of this title (relating to Fees)) are subject to reporting requirements, but are not required to pay a fee.

(1) Municipal Solid Waste Annual Summary Report frequency, report form, and report information.

(A) Report frequency. Annually, each facility or process operator shall report to the executive director the information requested on the report form for the appropriate reporting period (typically due on November 10th for the prior fiscal year which is from September 1 through August 31). An operator shall file a separate report for each facility that has a unique permit, permit application number, or registration number.

(B) Report form. The form of the report shall be in accordance with subsection (a)(1)(B) of this section. The form and other report requirements are described in TCEQ's Municipal Solid Waste Annual Reporting Program website.

(C) Report information. The information in the report shall be in accordance with subsection (a)(1)(C) of this section.

(2) Reporting units. The units used in reporting shall be in accordance with subsection (a)(2) of this section.

(3) Use of population equivalent. The use of the population equivalent method of reporting waste or Source-Separated Recyclable Material received or processed shall be in accordance with subsection (a)(3) of this section.

(4) Report due date. The required annual report shall be submitted to the executive director not later than 45 days following the fiscal year for which the report is applicable.

(5) Method of submission. The required report shall be delivered online (STEERS), by email, by fax, or in hard copy.

(6) Penalties. Failure of the facility or process operator to submit the required report by the due date shall be sufficient cause for the commission to revoke the permit or registration and authorization to process or dispose of waste or Source-Separated Recyclable Material. The commission may assess interest penalties for late payment of fees and may also assess penalties (fines) in accordance with Texas Water Code, § 7.051 or take any other action authorized by law to secure compliance.

A copy of the registration, registration application, approved site operating plan, an as- built set of construction plans and specifications, and other required plans and related documents will be maintained in the operating record at the transfer station scale house. These plans and documents will be furnished upon request to TCEQ representatives and made available for inspection. These plans and documents are part of the facility's operating record which will be maintained in an organized format that will allow information to be easily located and retrieved. All information contained within the operating record and the different required plans will be retained during the active life of the facility and until after certification of closure and will include:

- Access Control Inspection and Maintenance
- Daily Litter Pickup
- Windblown Waste and Litter Control Operations
- Dust Control Efforts
- Access Roadway Cleaning and Maintenance
- Fire Occurrence Notices, if applicable
- Documentation of Compliance with Approved Odor Management Plan, if applicable

In addition to the plans and documents listed above, the information below will be recorded and retained in the operating record:

Records to be Maintained and Rule Citation

- All location-restriction demonstrations 30 TAC 330.219(b)(i)
- Inspection records and training procedures 30 TAC 330.219(b)(2)
- Closure plans and monitoring / analytical data relating to closure requirements 30 TAC 330.219(b)(3)
- All cost estimates and financial assurance documents relating to financial assurance for closure 30 TAC 330.219(b)(4)
- 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 30 TAC 330.219(b)(5)
- All documents, manifests, shipping documents, trip tickets, etc., involving special waste §330.219(b)(6)
- Any other document(s) as specified by the approved registration or by the executive director §330.2 I 9(b)(7)
- Alternative schedules and notification requirements, if applicable §330.219(g)

All reports and other information requested by the executive director will be signed by the owner or operator of the transfer station as described in 30 TAC 305.44 or by a duly authorized representative. Regulation 30 TAC 330.219(c)(l)(A)-(C) describes the requirements for a duly authorized representative.

If an authorization under this section is no longer accurate because of a change in individuals or position, then a new authorization satisfying the requirement of this section will be submitted to the TCEQ prior to, or together with, any reports, information, or applications to be signed by an authorized representative. The person signing the report will make the certification in 30 TAC 305.44(b).

Untreated medical waste will not be accepted. Therefore, the requirements of 30 TAC 330.219(h) do not apply.

11.0 FIRE PROTECTION PLAN 30TAC330.221

The transfer station building will be equipped with a fire suppression system.

No burning of waste or Source-Separated Recyclable Material will be allowed at the site, unless specifically authorized under special conditions from the TCEQ Executive Director. Accidental fires will be promptly extinguished. To minimize fire hazards, employees will be trained in the potential sources of fires and their control, as described below. All buildings and machinery will be equipped with fire extinguishers of a type, size, number, and at locations specified by the fire marshal. All fire extinguishers will be kept fully charged, will have a current inspection, and will be ready at all times. A fire hydrant is present about 50 west of the transfer station property on the south side of Sommermeyer Street.

Flammable and combustible liquids will be stored in approved flammable-materials storage cabinets that are labeled. Smoking, open flames, temporary heaters, and spark-producing containers, devices, or tools will not be permitted in areas where flammable materials are stored or handled.

Personnel will observe incoming waste or Source-Separated Recyclable Material collection vehicles to detect evidence of pre-ignited materials which are usually evident from smoke and odors coming from the vehicle. The vehicle will be directed to an area of the site outside and not adjacent to the building, where waste or Source-Separated Recyclable Material can be safely discharged and the fire extinguished.

If the pre-ignited waste or Source-Separated Recyclable Material materials are discovered after being unloaded inside the transfer station, the load will be pushed, if practical and safe, to a location outside and not adjacent to the building, for control and extinguishing. The extinguished waste or Source-Separated Recyclable Material materials and any exhumed material will then be transported back into the transfer station for loading onto the transfer trailers.

The transfer station building will be equipped with a fire suppression system and portable fire extinguishers throughout the facility, as indicated on the site plans and specified by the fire marshal. Fire protection systems will be installed in conformance with local building and fire codes and subject to approval by the Houston fire marshal.

Any additional fire protection procedures required by the fire marshal to comply with the local fire codes will be incorporated into this Fire Protection Plan by a registration modification in accordance with 30 TAC 305.70.

Personnel safety will be a primary objective when managing fires. Site personnel will initiate the following procedures upon detecting a fire:

1. Call the fire department
2. Notify and request assistance from other operating personnel
3. Stop all site operations
4. Push the fire out of the building if possible
5. Use portable fire extinguishers and/or water hydrant
6. Confine fire to a small area
7. Approach the fire from any upwind position to minimize exposure to combustible products.

In all instances of fires at the transfer station, the City of Houston Fire Department will be notified. The nearest station, Station 66, is located at 5800 Teague Rd, Houston, TX 77041, approximately 0.7 miles south of the site. The emergency number is 911 and the non-emergency number is (832) 394-6700. The number for the Houston Fire Marshal is 832-394-6900.

If a fire occurs that is not extinguished within ten minutes of detection, the TCEQ's regional office will be contacted immediately after detection, but no later than four hours by telephone, and in writing within 14 days with a description of the fire and the resulting response.

The following firefighting equipment will be readily available in the event of fire:

- Fire suppression system (Attachment III-6, Drawing FP-101)
- Fire extinguishers located on heavy equipment
- A fire hydrant located about 50 feet west of the site on Sommermeyer Street.

11.1 Fire Protection Training

Fire protection professionals will train transfer station personnel in firefighting techniques, fire prevention, response, and the fire safety and protection aspects of the SOP. The training will occur as outlined previously in Section 1.3~~.1~~ of this Site Operating Plan. Personnel will be familiar with the use and limitations of firefighting equipment available onsite. Records of this training will be included in the site operating record.

12.0 ACCESS CONTROL 30TAC330.223

The applicant/owner/operator shall comply with the requirements of 30 TAC 330.223, presented below:

330.223(a) Public access to all municipal solid waste facilities shall be controlled by means of artificial barriers, natural barriers, or a combination of both, appropriate to protect human health and safety and the environment. Uncontrolled access to other operations located at a municipal solid waste facility shall be prevented.

330.223(b) The facility access road from a publicly owned roadway must be at least a two-lane gravel or paved road, designed for the expected traffic flow. Safe on-site access for commercial collection vehicles and for residents shall be provided. The access road design shall include adequate turning radii according to the vehicles that will utilize the facility and avoid disruption of normal traffic patterns. Vehicle parking shall be provided for equipment, employees, and visitors. Safety bumpers at hoppers shall be provided for vehicles. A positive means to control dust and mud shall be provided.

330.223(c) Access to the facility shall be controlled by a perimeter fence, consisting of a four-foot barbed wire fence or a six-foot chain-link fence or equivalent, and have lockable gates. An attendant shall be on-site during operating hours. The operating area and transport unit storage area shall be enclosed by walls or fencing.

Public access to the transfer station will be controlled with of a perimeter fence encompassing the entire property. Access will be limited to the gated entrances on Sommermeyer Street. Vehicle exits will be on Sommermeyer and Teague Road.

Site security measures are designed to prevent unauthorized persons from entering the site, to protect the facility and its equipment from possible damage caused by trespassers, and to prevent disruption of facility operations caused by unauthorized site entry. Unauthorized entry into the site is minimized by controlling access to the transfer station site with the perimeter fence and locking gates at the entrance and exit. The perimeter fence will consist of a 6-foot-high chain-link fence. Attachment III-6, Drawing TY-011 shows the Security Site Plan.

During operating hours, site personnel will continuously monitor the entrance gate to prevent unauthorized entry to facility. Entry to the active portion of the transfer station will be restricted to designated personnel,

approved waste and Source-Separated Recyclable Material haulers, and properly identified persons whose entry is authorized by site management.

A conspicuous sign measuring a minimum 4 feet by 4 feet will be maintained at the entrance to the facility. In letters at least 3-inches high, a sign that is readable from the entrance will state the facility name, facility type, the TCEQ registration number, hours of operation, 24-hour emergency contact phone number, and the local fire department phone number. Other signs stating rules will be posted throughout the site, including a sign listing prohibited wastes.

12.1 Site Security

Site security measures are designed to prevent unauthorized persons from entering the site, to protect the facility and its equipment from possible damage, and to prevent disruption of operations caused by unauthorized personnel. Unauthorized entry will be minimized by a six-foot-high chain link perimeter fence.

The site entrances located on Sommermeyer Street will be secured by a gate, and access to the transfer station will be monitored by the scalehouse attendant, who will be on site during operating hours. As needed, the scalehouse attendant may be replaced with an equipment operator, who will be required to have the same training as the gate attendant. The gate will be locked when the transfer station is not operating.

Entry to the active portion of the transfer station is restricted to designated personnel, approved waste and Source-Separated Recyclable Material haulers, and persons whose entry is authorized by site management. The general public will not have access to the facility. Safety bumpers will be provided at loading hoppers in the building according to 30 TAC 330.223(b).

The perimeter fence and gates will be inspected once per week for integrity and maintenance will be performed as needed.

The facility will comply with the following schedule and notification requirements for any access breach:

Requirements	Access Breach Repaired Within 8 Hours	Access Breach Not Permanently Repaired Within 8 Hours
Notify region office of breach and repair schedule	Not required	Within 24 hours
Make Temporary Repairs	Not required	Within 24 hours
Make Permanent Repairs	Within 8 Hours	Within schedule submitted to region office in initial notice
Notify TCEQ Region Office When Permanent Repairs Are Completed	Not required	Within schedule submitted to region office in initial notice

12.2 Traffic Control

~~Public~~ Vehicle access to the facility will be provided by one entrance~~s~~ on Sommermeyer Street for waste collection trucks (aka route trucks) and Source-Separated Recyclable Material collection trucks. and another entrance for transfer trailers and depository roll-off trucks. Public vehicles will enter the depository from an entrance on Windfern Road. All vehicles will leave the facility via the exits on Sommermeyer Street or Teague Road~~,~~. The owner or operator will obtain required permits from appropriate governmental agencies prior to

construction of the new driveway entrances and exits. ~~Vehicular traffic to the facility will generally access the facility using Sommermeyer Street,.~~

The site entrances and exits will be paved driveways with the widths shown on the Attachment III-1 Page 5 Architectural Site Plan ~~in~~ and on the Attachment II-8 Transportation Study Site Plan. Vehicle access from a publicly owned roadway will be at least a two-lane paved road, designed for the expected traffic flow. The driveways will intersect Sommermeyer Street at a 90-degree angle at a location with no sight restrictions or conflicts that impair the turning of the trucks or the view of drivers. Collection t~~T~~rucks that turn into the proposed site entrance driveway~~s~~ will have approximately 200 feet of queueing room before they reach the scalehouse. The exits will be controlled by a stop sign.

Based on the proposed access routes and Transportation Study (Attachment II-8), the roadways that provide access to the facility are adequate in capacity and structure to continue to serve the needs of the transfer station and general public. There are no proposed public roadway improvements such as turning lanes or storage lanes associated with the site entrance.

Vehicle parking for employees and visitors will be located east of the Scale House as shown on Attachment III-1 Page 5 Sheet A-011. Heavy equipment will be parked inside the building. Safety bumpers will be placed at all hoppers and waste/recycling containers where wastes or recyclables will be unloaded.

Coordination with TxDOT and City of Houston is included in Attachment II-7.

13.0 UNLOADING WASTE OR SOURCE-SEPARATED RECYCLABLE MATERIAL 30TAC330.225

A waste and Source-Separated Recyclable Material flow diagram indicating the processing, storage, and disposal sequences for various types of waste and Source-Separated Recyclable Material is shown on Attachment III-2.

As shown on Attachments III-1 through III-3, collection trucks will enter the site, weigh-in at the scale house, then proceed up the paved ramp to the doors in the north building wall leading to the tipping floor. Trucks will then discharge their load onto the tipping floor and then exit the building, stop at the site exit, then turn onto Sommermeyer Street. After the waste or Source-Separated Recyclable Material has been processed (moved and observed for prohibited materials), track-mounted excavators with grapples will load transfer trucks staged in the loading tunnels. After transfer trailers are full and weighed in the loading tunnels, they will proceed to the tarping station and then exit. Empty transfer trucks that are awaiting loading will line up behind the loading tunnels on the paved area.

The entire building area is ~~40,000~~38,640 square feet and the tipping floor area is approximately 30,000 square feet. This will be the only waste and Source-Separated Recyclable Material unloading area and will accept all types of approved waste and Source-Separated Recyclable Material as detailed in this SOP. The tipping floor is shown in Attachment III-4, Sheet A-112.

Once the incoming vehicle' s weight has been recorded, the gate attendant will direct incoming waste or Source-Separated Recyclable Material collection traffic to the tipping floor and inform the hauler that the waste or Source-Separated Recyclable Material is only to be unloaded on the tipping floor. Either waste or Source-Separated Recyclable Material will be accepted and managed on the tipping floor at any one time. Signs directing traffic from the scale house to the transfer station building will be located as needed along the route. Trained personnel inside the building will direct and observe the unloading of waste or Source-Separated Recyclable Material. The owner or operator is not required to accept any solid waste or Source-Separated Recyclable Material which they determine will cause or may cause problems in maintaining full compliance with TCEQ regulations.

Unloading waste or Source-Separated Recyclable Material in unauthorized areas will be prohibited. Any waste or Source-Separated Recyclable Material unloaded in an unauthorized area will be immediately moved to the tipping floor.

Trained personnel working inside the building will observe each load that is unloaded on the tipping floor and will have the authority and responsibility to reject unauthorized loads, and have the transporter remove unauthorized material. A record of unauthorized material removal will be maintained in the operating record.

Prohibited waste will not be allowed to enter the facility. The scalehouse attendant will be the first point of contact with the hauler who will be asked to describe the contents of the load. If safe, the scalehouse attendant will visually inspect open containers to verify contents. If prohibited wastes are identified in the load, the entire load will be turned away from the gate. If the prohibited waste is not detected in the load until unloading on the tipping floor, the load will be handled as discussed in Section 2.2 of this plan.

The proposed transfer station will hold a Type V Registration, and therefore will be authorized to accept municipal solid waste and Source-Separated Recyclable Material. Class 2 and 3 industrial non-hazardous waste may be accepted if the wastes are properly identified and the acceptance of such waste does not interfere with operations.

14.0 SPILL PREVENTION AND CONTROL 30TAC330.227

Solid waste or Source-Separated Recyclable Material processing will be conducted on concrete tipping floor. Therefore, contact of storm water with waste or Source-Separated Recyclable Material is limited. Uncontaminated water is any water that has not contacted waste or Source-Separated Recyclable Material. Contaminated water is any water that has contacted waste or Source-Separated Recyclable Material. The pavement and ground surface around the perimeter of the building will be graded to promote uncontaminated surface water drainage away from the building and toward the surface drainage features. Surface water at the entrance and exit to the loading tunnels will be intercepted by trench drains.

The tipping floor will be pressure washed as needed and will be sloped so that wash water will flow toward the loading tunnel. Wash water in the loading tunnel floor will be collected in grated drains beneath the scale platens which drain to a pipe that drains into an oil/water separator which will flow to a monitoring manhole and ultimately to the City of Houston sanitary sewer.

The storage and processing areas of the facility are designed to control and contain spills and contaminated water from leaving the facility. Contaminated water that drains from the waste or Source-Separated Recyclable Material will be collected as discussed above. Since this facility is an enclosed structure, the highest volume of liquid generated will occur when the tipping floor is being washed down.

15.0 OPERATING HOURS 30TAC330.229

The applicant/owner/operator shall comply with the requirements to 30 TAC 330.229, listed below:
(a) A site operating plan must specify the operating hours. The waste or Source-Separated Recyclable Material acceptance hours may be any time between the hours of **7:00 a.m. and 7:00 p.m., Monday through Friday**, unless otherwise approved by the executive director or commission for a permit. The operating hours for operating heavy equipment and transporting materials on- or off-site may be any time between the hours of 5:00 a.m. and 9:00 p.m., Monday through Friday, unless otherwise approved in the authorization. Other activities do not require specific approval.
(b) In addition to the requirements of subsection (a) of this section, the authorization may include alternative operating hours of up to five days in a calendar-year period to accommodate special occasions, special purpose events, holidays, or other special occurrences.

(c) The commission's regional offices may allow additional temporary operating hours to address disaster or other emergency situations, or other unforeseen circumstances that could result in the disruption of waste management services in the area.
(d) The facility must record, in the site operating record, the dates, times, and duration when any alternative operating hours are utilized.

If the operator chooses to accept waste or Source-Separated Recyclable Material during a shorter period, those operating hours will be posted on the entrance sign.

16.0 FACILITY SIGN 30TAC330.231

A conspicuous and readable sign will be displayed at the site entrance measuring at least four feet by four feet, have lettering at least three inches high stating the name of the site, type, hours and days of operation, emergency 24-hour contact phone number, local fire department phone number, TCEQ registration number, and prohibited wastes.

Other signs will state:

- Rules, operating procedures, and warnings
- Disposal area locations and which roads are to be used
- No smoking signs will be posted near the facility entrance or scale house
- All loads will be properly covered or otherwise secured

17.0 CONTROL OF WINDBLOWN MATERIAL AND LITTER 30TAC330.233

Waste or Source-Separated Recyclable Material will be unloaded and re-loaded inside the transfer station building and will be protected from the weather. A six-foot-high (minimum) perimeter chain-link fence surrounding the site will capture any incidental windblown trash. Litter along fence lines, access roads, or surrounding the building will be collected and brought to the processing area at least once per day when the facility is operating. Collection vehicles will be completely enclosed or covered as they enter and exit the facility to minimize windblown trash.

18.0 MATERIALS ALONG ROUTE TO THE FACILITY 30TAC330.235

The transfer station will require that waste or Source-Separated Recyclable Material hauling vehicles are enclosed, tarped, or provide other means to contain the load. In addition to routine checks by the gate attendant, the facility will post signs, report offenders to law enforcement, add surcharges, or take similar measures to prevent spillage of waste or Source-Separated Recyclable Material on access routes. During operating days, the transfer station will conduct a litter patrol at least once per day to collect waste or Source-Separated Recyclable Material spilled along and within the right-of-way of all public access roads serving the facility for one mile in either direction from the entrances to the facility. The transfer station manager or his designee will consult with TxDOT officials as necessary concerning cleanup of state highways and rights-of-way consistent with 30 TAC §330.235.

19.0 FACILITY ACCESS ROADS 30TAC330.237

Driveways on the transfer station property will be paved and accessible in all weather conditions. The surface condition of these driveways will be maintained and repaired regularly to eliminate potholes or low spots that may impound water and to minimize the tracking of mud and trash onto public roads. Any tracked mud and associated debris which may be brought into the facility driveways will be cleaned by washing, sweeping, or scraping, as necessary, to minimize tracking those materials onto the public roadways. Litter

and any other debris will be picked up at least daily and taken to the transfer station for disposal. Fugitive dust emissions will be minimized by the surfacing of all site driveways and regular cleaning procedures.

20.0 NOISE POLLUTION AND VISUAL SCREENING 30TAC330.239

The site is designed to minimize the potential for noise pollution and visual impact to neighbors and the public. Waste or Source-Separated Recyclable Material unloading, movement, and reloading will occur within the transfer station building with the doors facing north and south away from Neches Street.

21.0 OVERLOADING AND BREAKDOWN 30TAC330.241

The transfer station will not accumulate solid waste or Source-Separated Recyclable Material in quantities that cannot be processed within such time as will preclude the creation of odors, insect breeding, or harboring of other vectors. If such accumulations occur, additional solid waste or Source-Separated Recyclable Material shall not be received until the adverse conditions are abated. All waste or Source-Separated Recyclable Material storage or holding will occur within the building. No storage of waste or Source-Separated Recyclable Material materials will occur outside of the building.

If a significant work stoppage should occur at the facility due to a mechanical breakdown or other causes, the facility will accordingly restrict the receiving of solid waste or Source-Separated Recyclable Material. Under such circumstances, incoming solid waste or Source-Separated Recyclable Material shall be diverted to an approved backup processing or disposal facility. If the work stoppage is anticipated to last longer than 24 hours or long enough to create objectionable odors, insect breeding, or harboring of vectors, steps shall be taken to remove the accumulated solid waste or Source-Separated Recyclable Material from the site to an approved backup processing or disposal facility. As stated in 30 TAC 330.241(c): The owner or operator shall have alternative processing or disposal procedures for the solid waste or Source-Separated Recyclable Material in the event that the facility becomes inoperable for periods longer than 24 hours.

22.0 SANITATION 30TAC330.243

The tipping floor, ~~push~~ push-walls, and other working surfaces that contact waste or Source-Separated Recyclable Material will be washed ~~down as needed~~weekly at a minimum, including when transitioning from managing waste to Source-Separated Recyclable Material and vice versa. Wash waters will not be allowed to accumulate on the tipping floor or in the tunnels and will be directed toward the back of the building and into the loading tunnel area via a sloped tipping floor. The wash water in the loading tunnel floor area will be collected in drains beneath the scale platens, then flow to a oil/water separator, then monitoring manhole, which is connected to the City of Houston sanitary sewer for disposal.

The layout drains, oil/water separator, and associated piping for the handling of contaminated water are presented in Part III, Attachment III-6.

The contaminated water system (tipping floor and tunnels through manhole) will be inspected on a monthly basis and cleaned as needed.

23.0 VENTILATION AND AIR POLLUTION CONTROL 30TAC330.245

Ventilation will be provided in accordance with the current TCEQ MSW Air Permitting rules and regulations applicable to municipal solid waste facilities. Ventilation will be provided in the transfer station building using fans mounted near the roof peak for both odor control and employee safety. Excessive dust and particulates that occur in the building will be controlled using water sprays, mist systems, or similar methods. The facility will be connected to the City of Houston water supply system which will provide water for dust control.

A minimum 50-foot buffer will be provided between the transfer building and the site boundaries to prevent nuisance odors from leaving the boundary of the facility.

If, at any time, nuisance odors are found to be passing the facility boundary, The transfer station manager will initiate the mobilization and operation of odor control equipment. The facility may be required to suspend operations until the nuisance has been properly abated.

All air pollution emission capture and abatement equipment, such as a misting system, or equivalent technology will be properly maintained and operated, as required, during facility operation. Cleaning and maintaining of the abatement equipment will be performed as recommended by the manufacturer.

Transfer station management will ensure that the operation of the facility does not violate any applicable requirements of the approved state implementation plan developed under the Federal Clean Air Act, Section 110, as amended, and TAC 330.lS(d), which prohibits the burning of waste.

The transfer station will implement an odor management plan as described below.

- The facility will not accumulate solid waste or Source-Separated Recyclable Material in quantities that cannot be processed quickly enough to prevent the creation of odors, insect breeding, or harboring of vectors. If such accumulations occur, additional solid waste or Source-Separated Recyclable Material shall not be received until the adverse conditions are abated. All waste or Source-Separated Recyclable Material storage or holding will occur within the building.
- The building is totally enclosed with doors in only the north walls to prevent nuisance odors from leaving the property boundary.
- If a significant work stoppage should occur because of a mechanical breakdown or other cause, the facility will restrict the receipt of waste or Source-Separated Recyclable Material. Under such circumstances, incoming solid waste or Source-Separated Recyclable Material shall be diverted to an approved backup processing or disposal facility. If the work stoppage is expected to continue for long enough to create objectionable odors, insect breeding, or harboring of vectors, the accumulated solid waste or Source-Separated Recyclable Material will be removed and transported to an approved processing or disposal facility.
- Odors that could be caused by ponded water will be prevented by maintaining surfaces to prevent accumulation.
- To minimize odors inside the transfer station building, the tipping floor, push walls, and any other work surfaces that contact waste or Source-Separated Recyclable Material will be washed down as needed.
- Wash waters will not be allowed to accumulate on the tipping floor or in the tunnels and will be disposed of as described above under Sanitation
- Air emissions from the facility will not cause or contribute to a condition of air pollution as defined in the Texas Clean Air Act. If necessary, the transfer station and air pollution control devices will obtain authorization under 30 TAC Chapter 116 or 30 TAC 330 Subchapter U.

Reporting emissions events, if applicable, will occur in accordance with 30 TAC 101.201 and reporting scheduled maintenance will occur in accordance with 30 TAC 101.211.

24.0 HEALTH AND SAFETY 30TAC330.247

The transfer station manager will be responsible to ensure that workers are routinely trained in the facility' s health and safety plan. The transfer station manager will enforce safety rules and policies and promptly investigate and report all accidents. Operators will wear personal protective equipment such as hard hats, safety glasses, and dust masks when appropriate. Fire extinguishers will be available and the building will have a fire suppression system. Detailed procedures that comprise the Safety Plan for the facility are discussed below.

24.1 Emergency Preparedness

Preparedness and preventive measures to minimize both the frequency and severity of accidents and emergency situations threatening human health will be implemented at the facility. These measures will largely depend on the attentiveness and state of readiness of facility personnel. All workers will be trained in the subjects below.

24.1.1 General Measures

The following general measures will be implemented:

- Employee rest periods will be provided to minimize employee fatigue, maintain alertness, and reduce accident potential
- Access controls will prevent entry of unauthorized personnel
- Routine preventive equipment maintenance will be provided
- A management representative will perform regular site inspections
- Appropriate personnel safety equipment will be maintained on site in good condition
- Adequate turning area for hauling vehicles will be provided
- Scavenging will be prohibited and drivers will be required to stay close to their vehicles for their protection
- Unloading will be restricted to designated areas only
- Site personnel will be alert for possible prohibited wastes entering site
- Prohibited wastes will be controlled or contained and removed as necessary

24.1.2 Measures for the Unloading and Receiving Area

The following measures will be implemented within the unloading/receiving area:

- Inspect loads based on guidelines detailed in Section 2.2
- Observe incoming vehicles for evidence of improper operation, faulty equipment, or other conditions that could be dangerous to workers or other persons onsite
- Make emergency equipment available and maintain a first-aid kit
- Post emergency telephone numbers
- Display signs warning transporters that hazardous wastes, PCBs, radioactive, and other prohibited wastes are not accepted

24.2 Emergency and Contingency Procedures

Emergency and contingency procedures will be implemented at the facility in the event of accidents or environmentally significant releases. These procedures constitute an initial response that will be supplemented, as needed, by outside emergency services. Emergency assistance requests will be handled through conventional means (eg. calling 911). The following situation-specific procedures are proposed.

24.2.1 Accidents

The procedures to address various types of accidents are discussed in the following sections.

24.2.1.1 General Procedures

For an incident involving a spill or release that requires notification, site personnel should:

- Stop the source of the spill if safe to do so
- Contain the spill to prevent an offsite discharge
- Notify the transfer station manager
- Determine the property method of spill debris disposal

Arrange to collect, store, treat, or dispose of all recovered waste or Source-Separated Recyclable Material and clean-up residue.
Investigate possible methods of preventing recurrence of the incident.

If the spill exceeds a reportable quantity, notify the appropriate federal, state, or local agency affected by the release with the following information:

1. Caller's name and telephone number
2. Name and address of the facility
3. Time and type of release
4. Name and quantity of material(s) involved (to the extent known)
5. Extent of injuries, if any
6. Possible hazards to human health or the environment outside the facility

24.2.1.2 Vehicular Accidents

If an accident involving vehicles or site equipment occurs, site personnel should:

1. If a personal injury occurred, follow the steps outlined in Section 24.2.1.3 which addresses personal accidents
2. Determine whether the vehicles can be safely moved under its own power
    a. If so, move the vehicles out of the way of normal traffic flow
    b. If the vehicles cannot move by its own power and is interrupting traffic flow, push the vehicle out of the way using site equipment
3. Notify the transfer station manager of the details of the accident
4. Arrange to have any disabled vehicles towed from the facility in accordance with specific instructions from the transfer station manager

24.2.1.3 Personnel Accidents

1. Determine the nature and extent of the injuries
2. Administer basic emergency first-aid techniques if safe
3. Call for outside emergency assistance (EMS)
4. Report incident to the transfer station manager
5. Transport victim(s) to a professional medical care facility by conventional means, if injuries require non-emergency medical attention

24.2.2 Releases

The procedures to address various types of releases are discussed in the following sections.

24.2.2.1 Sudden Releases

For sudden releases of smoke, vapors, liquids, or unusual odors, site personnel should:

1. Remove personnel from the area, if safety is threatened
2. Discontinue operation in the immediate area until authorized to resume

3. Notify the transfer station manager, who will investigate the cause and correct it.
4. Notify the transfer station manager of the extent of the sudden release and prepare a plan of action to correct the problem.

24.2.2.2 Non-sudden releases

For non-sudden releases involving persistent odors or windblown waste, site personnel should:

1. Notify the transfer station manager of the non-sudden release and recommend actions to be taken
2. Undertake site remedial action to contain the release or mitigate its effects including, but not limited to, capping the escape point with soil or impervious material, treatment, or off-site disposal.

25.0 EMPLOYEE SANITATION FACILITIES 30TAC330.249

Potable water and sanitary facilities will be provided for all employees and visitors at the scale house. Portable sanitary facilities may be utilized and will be maintained in accordance with instructions from the vendors.

26.0 DISEASE VECTOR CONTROL

Disease vectors such as flies and rodents will be controlled by minimizing the accumulation of waste or Source-Separated Recyclable Material and wastewater in the building. An exterminator will be hired twice per year to control vectors. Additional treatments will be scheduled if vectors reappear.

27.0 DISPOSAL OF LARGE ITEMS

Bulky and large items arriving at the transfer station will be placed on the tipping floor to allow the loader to crush and flatten them prior to loading into a transfer trailer. Where this is not possible, bulky or large items will be carefully loaded into transfer trailers.

Refrigerators, freezers, air conditioners, and any other items containing chlorinated fluorocarbons (CFC) will be handled in accordance with 40 Code of Federal Regulations. Verification that the refrigerant has been removed and collected from appliances will be required prior to acceptance of the appliances at the facility. The verification will include a signed statement, the name and address of the person who recovered the refrigerant, and the date the refrigerant was recovered. Any appliances containing refrigerant that have been inadvertently accepted will be taken to a certified refrigerant removing company where the refrigerant will be removed prior to processing for recycling or disposal.

28.0 SALVAGING AND SCAVENGING

Salvaging and scavenging will not be allowed. Facility workers will monitor the facility and use site access controls to prevent scavenging.

29.0 HANDLING OF INDUSTRIAL WASTES

The Northwest Transfer Station will not accept Class 1 non-hazardous industrial waste. Class 2 industrial waste is allowed as defined in 30 TAC 335.508(3). Class 3 non-hazardous industrial wastes may be accepted and include inert and essentially insoluble industrial solid waste such as rock, brick, glass, dirt, certain plastics and rubber that are not readily decomposable as defined in 30 TAC 335.507.

30.0 FACILITY INSPECTION AND MAINTENANCE

The table below contains the inspection and maintenance lists of the facility. The facility manager or designee will perform the tasks. The inspection documentation will be retained in the operating record.

Item	Task	Frequency
Fence and Gates	Inspect perimeter fence and gates and repair as needed	Weekly
Litter	Pick up trash on property, roads, and perimeter fence	Daily as in Section 17.0.
Waste or Source-Separated Recyclable Material Spilled in Access Route	Pick up trash around entrance, exit, and Neches and Kelley Streets within one mile of transfer station	Daily as in Section 18.0.
Transfer Station Access Road	Inspect access road for damage and mud accumulation. Remove mud at least once per operating day.	At least weekly during wet weather or extended dry weather periods.
Signs	Inspect all facility signs for damage, general location, and accuracy of posted information.	Weekly
Odors	Inspect the perimeter of the facility to assess the performance of operations to control odor.	Daily
Drainage Channels	Inspect drainage channels, subsurface detention system, and pond to verify that they are functioning as designed	Weekly and within 72-hours of a rainfall event of 0.5inches or more.

31.0 ATTACHMENTS

None

Type V Registration Application No. 40348
Northwest Transfer Station
14421 Sommermeyer Street, Houston, Texas

Part IV
Site Operating Plan

Prepared for:

City of Houston General Services and Solid Waste Management Departments

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Part IV

Type V Transfer Station Registration Application

Houston, TX

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1.0 INTRODUCTION

This Site Operating Plan (SOP) for the Northwest Transfer Station is based on 30 TAC 330, Subchapter E. The proposed facility will be a Type V municipal solid waste transfer station owned and operated by the City of Houston (COH). The purpose of this SOP is to provide general operating instructions to site management and operating personnel to maintain compliance with the engineering design and applicable TCEQ requirements, to protect human health and the environment, and to prevent nuisances. This plan is organized to follow 30 TAC 330.201-249 (Subchapter E). The plan should be used for personnel training. This SOP, the registration application, registration issued by the TCEQ, and current TCEQ regulations will be kept onsite for as long as the facility operates.

If the facility manager becomes aware of any condition in the approved SOP which necessitates a variation from the SOP to accommodate new technology or improved methods, the owner will submit a revised SOP to the TCEQ, which may require a modification to the Transfer Station registration in accordance with 30 TAC 305.70 or an amendment in accordance with 30 TAC 305.62. The facility will not implement any revised changes to the SOP without written approval of the modification or amendment by the TCEQ.

1.1 General Facility Design

The transfer station site includes the transfer station building with dual loading tunnels, a gatehouse with two scales, a radio equipment building, an optional office/break room trailer, service drives, a fire suppression system, a lift station for contaminated water, a stormwater drainage system, and a perimeter fence with locking gates. The transfer station building is a split-level structure with an above-grade waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) handling area and below-grade loading tunnels with scales. The building footprint will be about 38,640 square feet with concrete floors, concrete or steel push walls, steel framing, metal exterior panels, and a roof. The transfer station building contains a mechanical room, electrical room, sprinkler riser room, IT/Data room, and a storage room. Site and building layout drawings are included as Attachments III-1 through III-6.

The tipping floor area will be about 30,000 square feet and be used for waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) unloading, processing, storage, and loading. The only effluent resulting from the processing operations will be the wash water from tipping floor cleaning. Wash water will be directed toward the loading tunnel where it will be collected by grated drains. An oil/water separator and monitoring manhole will be located near the loading tunnels, outside of the building and near a City of Houston sanitary sewer connection for disposal.

Source-Separated Recyclable Material (30 TAC 328.2(6)) is acceptable and when accepted and managed on the tipping floor, no waste will be allowed on the tipping floor. Similarly, when waste is managed on the tipping floor, Source-Separated Recyclable Material will not be allowed on the tipping floor. The tipping floor will be washed down before changing from management of waste to Source-Separated Recyclable Material and before changing from management of Source-Separated Recyclable Material to waste. The tipping floor is shown in Attachment III-4, Sheet A-112.

The transfer station features a metal roof structure that covers the reinforced concrete tipping pad used for waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) processing and storage as well as a loading tunnel for the transfer trucks. The building is enclosed on all four sides with approximate door heights of 29 feet for collection trucks and 22 feet for transfer trucks. Doors along the north wall will allow route trucks to turn around on the concrete pad north of the building, back into the building, unload onto the

tipping floor, and exit through the door they entered. The transfer station boundary is completely enclosed by a chain-link fence.

1.2 General Facility Operation

Waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) will be delivered to the transfer station in collection trucks (front, rear, and side loaders) and in roll-off trucks. It is possible that the public will be allowed to unload at the transfer station. Waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) collection vehicles will enter from Sommermeyer Street, be weighed at the scale house, and be directed to the transfer station building. Acceptable waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) will be unloaded onto the tipping floor, inspected for prohibited wastes, then loaded into transfer trailers parked in the loading tunnels. Once the transfer trailer is full (based on weight indicated by scales in the tunnel or volume), the transfer tractor and trailer will proceed to the tarping station and then offsite to a permitted disposal facility.

1.3 General Facility Personnel

Facility Manager

The manager will:

- Be responsible for overall facility management and assure that adequate personnel and equipment are available to operate in accordance with the SOP and TCEQ regulations
- Have the authority and responsibility to reject unauthorized wastes and have them removed from the site
- Be responsible for conducting daily operations, administering the facility's SOP, and serving as the emergency coordinator
- Operate equipment when necessary and designate an alternate in their absence who is capable of fulfilling their responsibilities
- Hold a TCEQ Class A or B MSW Operators License
- Ensure that the SOP is maintained as required by regulation and by the plan
- Ensure that all site operating personnel are trained in operating plans and TCEQ regulations

According to 30 TAC 335.586(a) and (c), personnel must successfully complete a program of classroom instruction or on-the-job training that teaches them to perform their duties in a way that ensures compliance with the regulations and attend annual reviews of their initial training. The transfer station manager must ensure that the training program includes all the elements to comply with 30 TAC 335.586(d)(3). The program must be directed by a person trained in waste management procedures and must include procedures relevant to the specific positions. The training program must be designed to ensure that facility personnel are able to respond effectively to emergencies including fire prevention and firefighting techniques by familiarizing them with emergency procedures, equipment, and systems. Personnel training records will be maintained in the operating record and will include evidence of successful completion, type of training, instructor's name, and date.

Equipment Operators

Equipment operators are responsible for the safe operation of equipment and for being alert to potentially dangerous conditions and improper actions of non-employees and other persons. Equipment operators monitor and direct unloading vehicles and are also responsible for maintenance, construction, litter abatement, and general site cleanup. They are authorized to intervene if necessary to prevent accidents and report unsafe conditions to the manager. Their daily responsibilities may include loading materials into transfer trailers, monitoring scale weights as trailers are loaded, and sweeping the tipping floor. The

minimum qualifications for equipment operators are the demonstrated abilities to operate equipment and perform other duties in a safe and effective manner. The transfer station manager or designated representative will supervise the equipment operations.

Scale House Attendants

The scale house attendants will manage the scale house while the facility is open, control site access and incoming waste or Source-Separated Recyclable Material (30 TAC 328.2(6)), dispense information on the proper use of the site, assess tipping fees, and direct vehicles to the transfer station building. The minimum qualifications are the abilities to perform assigned duties in a safe and effective manner. The transfer station manager will supervise the attendants.

Laborers

Laborers will provide general operations support at the transfer station which will include:

- Checking for unauthorized materials
- Sweeping the operations areas using manual equipment
- Performing facility wash-down
- Collecting and disposing of windblown litter
- Performing general equipment and building maintenance
- Directing vehicles in the unloading areas

Other site personnel or laborers may be employed from time to time in categories such as maintenance, construction, litter abatement, and general site cleanup. The minimum qualifications for laborers are the abilities to perform assigned duties in a safe and effective manner. The manager and equipment operators will supervise the laborers.

During night operations, adequate personnel will be scheduled as needed for safe operations. Proper lighting will be provided in and around the transfer station building, the scale house, and security gates. The facility will comply with applicable federal, state, and local worker health and safety issues.

The number and types of personnel will depend on the rate of incoming waste or Source-Separated Recyclable Material (30 TAC 328.2(6)). At a minimum, one scale house attendant, one equipment operator, and a manager will always be present. Additional personnel will be available as required.

1.4 Training

Facility personnel will be trained to inspect vehicles and identify regulated hazardous waste, PCB waste, and other prohibited wastes. The gate attendant and equipment operators will be trained in inspection procedures for prohibited waste. Supervisors will provide personnel with on-the-job training. Records of employee training on prohibited waste control procedures will be maintained in the facility operating record.

1.5 General Facility Equipment

Sufficient equipment will be provided to conduct site operations according to the design and operating conditions of the Site Development Plan (SDP) and this SOP.

Heavy equipment will consist of at least a loader, excavator, and transfer trailers.

- The loader will push waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) across the floor and against the push walls to compact the materials.
- Excavators with grapple attachments will move waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) from the tipping floor into transfer trailers

- Transfer trailers will receive waste or Source-Separated Recyclable Material (30 TAC 328.2(6)) from the tipping floor and will be positioned in the tunnel. After the transfer trailers are loaded and covered, they will be inspected to ensure that they are free of clinging trash and are not leaking before driving to the tarping station.

Equipment will be maintained, repaired, replaced, or supplemented as required for effective and compliant operations. Emergency back-up equipment will be rented or will be available from other COH solid waste facilities. Additional equipment may be used based on operational considerations. Equipment requirements and further characteristics are summarized below.

Equipment Type	Minimum Number	Size or Model	Purpose
Front End Loader (rubber tire or track)	1	CAT 924, CAT 933, or equal	Tipping floor waste or Source-Separated Recyclable Material moving, stockpiling, compacting
Excavator (with grapple)	1	CAT 320 or equal	Waste or Source-Separated Recyclable Material moving, stockpiling, loading
Transfer Trailers	21 (assumes 2k tpd, 4 trips) The actual number of transfer trailers will depend on the waste and SSRM intake rate	24-ton capacity	Transport waste or Source-Separated Recyclable Material to disposal facilities and material recovery facilities

1.5.1 Equipment for Emergencies

All heavy equipment and the building will be equipped with fire extinguishers. A fire hydrant is located about 50 feet west of the transfer station property on the south side of Sommermeyer Street. A first-aid kit will be maintained at the transfer station building. Workers will be provided with and required to wear PPE (hard hats, safety glasses, and dust masks).

2.0 WASTE ACCEPTANCE AND ANALYSIS 30TAC330.203

The Northwest Transfer Station is a Type V facility which will be authorized to accept municipal solid waste (MSW) and Source-Separated Recyclable Material (30 TAC 328.2(6)) and Class 2 and 3 non-hazardous industrial waste when properly identified and provided it does not interfere with operations. Based on the list of acceptable waste and Source-Separated Recyclable Material below, there are no limiting waste constituents or characteristics that may impact the design and operation of the facility. Therefore, the parameter limitations, as required by 30 TAC 330.203(a) are not applicable to this facility.

The applicant/owner/operator shall comply with the requirements of 30 TAC330.205(a). The operator shall specify the characteristics and constituent concentrations of wastes generated by the facility and shall provide documentation that all wastes leaving the facility can be adequately managed by facilities that are licensed or

permitted by the appropriate agencies to receive such wastes at the volumes and concentrations estimated in the facility design.

2.1 Waste and Source-Separated Recyclable Material (30 TAC 328.2(6)) Sources and Characteristics

The facility is expected to accept the following waste and Source-Separated Recyclable Material as defined in 30 TAC §330.3:

Primary Waste Types

The sources of Primary Waste Types accepted by the proposed transfer station will be municipal, commercial, and industrial sources in the City of Houston, Harris County and possibly surrounding counties.

- Municipal Solid Waste - Resulting from municipal, community, commercial, institutional, and recreational activities, including garbage, rubbish, ashes, street cleanings, abandoned automobiles, and all other solid waste other than industrial solid waste
- Putrescible Waste - Organic wastes, such as garbage, that are capable of being decomposed by microorganisms with sufficient rapidity as to cause odors or gases or are capable of providing food for or attracting birds, animals, and disease vectors
- Rubbish – Non-putrescible solid waste (excluding ashes) consisting of both combustible and noncombustible waste materials.
    - Combustible rubbish includes paper, rags, cartons, wood, excelsior, furniture, rubber, plastics, brush, or similar materials
    - Noncombustible rubbish includes glass, crockery, tin cans, aluminum cans, and similar materials that will not burn at ordinary incinerator temperatures (1,600 degrees Fahrenheit to 1,800 degrees Fahrenheit)
- Yard Waste - Leaves, grass clippings, garden debris, and brush, including clean woody vegetative material not greater than six inches in diameter that results from landscaping maintenance and land-clearing operations, excluding stumps, roots, or shrubs with intact root balls
- Construction or demolition (C & D) Debris - Waste resulting from construction or demolition projects which includes all materials that are the by-products of construction work or that result from demolition of buildings and other structures, including paper, cartons, gypsum board, wood, excelsior, rubber, and plastics

Other Waste Types

The sources of Other Waste Types accepted by the proposed transfer station will be municipal, commercial, and industrial sources in the City of Houston, Harris County and possibly surrounding counties.

- Class 2 industrial Wastes - Any individual solid waste or combination of industrial solid waste that are not described as Hazardous, Class I, or Class 3 as defined in 30 TAC 335.506
- Class 3 Industrial Wastes - Inert and essentially insoluble industrial solid waste, usually including materials such as rock, brick, glass, dirt, certain plastics and rubber that are not readily decomposable, as further defined in 30 TAC 335.507
- Tires that are, at minimum, split in half or quartered

Source-Separated Recyclable Material:

The sources of Source-Separated Recyclable Material accepted by the proposed transfer station will be municipal, commercial, and industrial sources in the City of Houston, Harris County and possibly surrounding counties.

- As defined in 30 TAC Chapter 328.2(6) - Source-separated recyclable material is recyclable material from residential, commercial, municipal, institutional, recreational, industrial, and other community

activities, that at the point of generation has been separated, collected, and transported separately from municipal solid waste, or transported in the same vehicle as municipal solid waste, but in separate containers or compartments. Source-separation does not require the recovery or separation of non-recyclable components that are integral to a recyclable product, including:

- (A) the non-recyclable components of white goods, whole computers, whole automobiles, or other manufactured items for which dismantling and separation of recyclable from non-recyclable components by the generator are impractical, such as insulation or electronic components in white goods;
- (B) source-separated recyclable material rendered unmarketable by damage during collection, unloading, and sorting, such as broken recyclable glass; and
- (C) tramp materials, such as:
  - (i) glass from recyclable metal windows;
  - (ii) nails and roofing felt attached to recyclable shingles;
  - (iii) nails and sheetrock attached to recyclable lumber generated through the demolition of buildings; and
  - (iv) pallets and packaging materials.

The facility will not accept the following wastes:

- Special wastes, other than Class 2 and Class 3 industrial wastes
- Special waste from health-care-related facilities
- Waste from commercial or industrial waste-water treatment plants, air pollution control facilities, and tanks, drums, or containers used for shipping or storing any material that has been listed as a hazardous constituent in 40 CFR Part 261, Appendix VIII but has not been listed as a commercial product in 40 CFR, 261.33(e) or (f)
- Slaughterhouse wastes
- Dead animals
- Pesticide (insecticide, herbicide, fungicide, or rodenticide) containers in accordance with 30 TAC 330.136(b)(5)
- Discarded materials containing asbestos
- Incinerator ash
- Soil contaminated by petroleum products, crude oils, or chemicals
- Hazardous wastes
- Polychlorinated biphenyls (PCB) waste
- Radioactive waste
- Unknown chemical or containerized waste
- Class 1 non-hazardous industrial waste
- Regulated Asbestos Containing Materials (RACM)
- Lead acid storage batteries
- Do-it-Yourself (DIY) used motor vehicle oil
- Used oil filters from internal combustion engines
- Whole used or scrap tires.
- Items containing chlorinated fluorocarbons (CFC's), such as refrigerators, freezers, and air conditioners, will only be accepted at the site if the generator or transporter provides written certification that the CFC has been evacuated from the unit and that it was not knowingly allowed to escape into the atmosphere

- Liquid waste (any waste material that is determined to contain "free liquids" as deemed by EPA Method 9095 (Paint Filter Test), as described in "Test Methods for Evaluating Solid Wastes, Physical Chemical Methods" (EPA Publication Number SW-846)) shall not be accepted unless it is bulk or non-containerized liquid waste that is household waste other than septic waste, or liquid waste in a small container similar in size to that normally found in the household waste and the container is designated to hold liquids for use other than storage, or the waste is a household waste.

2.2 Measures for Controlling Prohibited Wastes

To address the detection and prevention of regulated hazardous wastes as defined in 40 CFR Part 261 and of PCB waste as defined in 40 CFR Part 761, a Waste Screening Plan (WSP) and exclusion program will be implemented at the transfer station. The purpose of the program is to:

1. Prevent the entry and disposal of unauthorized wastes
2. Protect the site personnel and customers
3. Comply with TCEQ regulations
4. Protect the site and surrounding areas from contamination from unauthorized wastes
5. Implement procedures for the detection and exclusion program

Procedures to detect and control prohibited wastes include:

- Informing facility customers of prohibited wastes by posting signs at the facility entrance
- Providing customers with a written list of prohibited wastes
- Informing all drivers of incoming waste hauling vehicles that the following information is available
    - Posting one or more signs at the facility entrance listing prohibited wastes
    - Providing all vehicle drivers and transfer station operators with a list of prohibited wastes
- Training facility personnel responsible for inspecting or observing incoming loads to recognize unauthorized waste
- Conducting random inspections of incoming loads
- Maintaining records of all inspections
- Notifying the TCEQ of any incident involving a regulated hazardous waste or a PCB waste
- Remediating any regulated hazardous waste or PCB waste discovered at the facility in accordance with §335.349.

Facility personnel will be trained to inspect vehicles and identify regulated hazardous waste, PCB waste, and other prohibited wastes. The gate attendant and equipment operators will be trained in inspection procedures for prohibited waste. Supervisors will provide personnel with on-the-job training. Records of employee training on prohibited waste control procedures will be maintained in the facility operating record. Personnel will be trained to look for the following indications of prohibited waste:

- Yellow hazardous waste or PCB labels
- DOT hazard labels or placards
- Liquids
- 55-gallon drums and 85-gallon overpack drums
- Powders or dusts
- Odors or chemical fumes
- Bright or unusual colored wastes
- Sludges

If transfer station personnel identify any of the above indicators, they will direct the load to an area out of the flow of traffic for further evaluation. If the load is determined to contain prohibited

waste, the load will be rejected and directed back to the generator. Gate attendants will evaluate waste loads from potential sources of prohibited waste such as industrial facilities, electronics manufacturers, electronic companies, metal plating industry, automotive and vehicle repair companies, and drycleaners.

2.2.1 Load Inspection Procedure

An operator in the transfer station visually inspects all incoming loads. If there is an indication of prohibited waste, trained personnel will evaluate the load. The driver will be directed to a load inspection area where the load is discharged from the vehicle. The inspector breaks up the waste or Source-Separated Recyclable Material pile and inspects the material for prohibited waste. Facility personnel flag suspicious wastes and may collect samples for testing. Known prohibited waste is placed back in the vehicle and the driver is instructed to leave the site. If regulated hazardous waste be detected, the entire load will be rejected.

Reports of load inspections will be completed for each inspection, and will include the date and time of inspection, the name and address and driver of the hauling company, type of vehicle, size and source of the load, contents of the load, indicators of prohibited waste, and results of the inspection.

The TCEQ will be notified whenever regulated hazardous or PCB waste is detected and a record of the notice will be placed in the site operating record and include the date and time of notification, the individual contacted, and the information reported.

Additionally, incoming loads will be inspected on a random basis. At a minimum, the transfer station will randomly inspect one percent of all incoming loads, and no less than one inspection per day. The driver of a randomly selected load will be notified at the scale house and instructed to proceed to the inspection area. An operator will visually inspect the load and complete an inspection report.

2.2.2 Managing Prohibited Wastes

Unknown wastes undergoing analysis will be segregated and protected against the elements, secured against unauthorized removal, and isolated from other waste.

Known prohibited wastes will be returned immediately to the hauler. If the hauler is not available, the waste will be placed in suitable collection containers until the hauler is contacted and returns to remove the load. If identification of the source is not possible, the transfer station will ensure that the waste is disposed of properly. The waste will not be allowed to remain on the site in containers for more than 48 hours.

If regulated hazardous or PCB wastes are detected, the TCEQ will be notified. As soon as practical, the hauler will be required to remove the hazardous waste from the site. Prior to removal, the hauler must obtain an EPA identification number, package the waste in accordance with TxDOT regulations, and manifest the waste designating a permitted facility to treat, store, or dispose of the hazardous waste.

2.3 Waste and Source-Separated Recyclable Material Acceptance Rate

The projected amount of waste or Source-Separated Recyclable Material to be received daily and annually for the next five years of the facility operation is presented below. The daily waste or Source-Separated Recyclable Material acceptance rate will range from approximately 500 tons per day to approximately 2,000 tons per day. The estimated waste or Source-Separated Recyclable Material acceptance rate may fluctuate during the life of the facility and should not be considered a limit. In the event that the facility operating and storage capacity is approaching the maximum, the operator will temporarily stop accepting waste or source-separated recyclable material and direct incoming vehicles to other permitted transfer, disposal, or recycling

facilities that are appropriate for the material they are transporting until the transfer station again has the capacity to accept waste or source-separated recyclable materials.

If the transfer station becomes inoperable for periods longer than 24 hours, the operator will notify haulers that typically use the transfer station that the facility is temporarily closed and direct them to other permitted transfer, disposal, or recycling facilities that are appropriate for the material they are transporting until the transfer station reopens.

2.4 Waste or Source-Separated Recyclable Material Storage and Processing Time

The daily waste or Source-Separated Recyclable Material acceptance rate will range from about 500 tons per day to approximately 2,000 tons per day. The estimated waste or Source-Separated Recyclable Material acceptance rate may fluctuate during the life of the facility and should not be considered a limit.

The maximum volume of waste or Source-Separated Recyclable Material that will be stored at any given time is 2,000 tons. All waste or Source-Separated Recyclable Material storage or holding will occur within the building. Solid waste or Source-Separated Recyclable Material will be stored on average for four hours and a maximum of six hours while being processed. The solid waste or Source-Separated Recyclable Material will not be allowed to accumulate long enough to allow the creation of nuisances or public health hazards due to odors, fly breeding, or harborage of other vectors. Storage periods significantly above average that are caused by equipment breakdowns will only be permitted for the time required to repair or replace the malfunctioning equipment. The maximum holding time under these circumstances will not exceed 48 hours with an average holding time of 24 hours. During periods such as holidays, the solid waste or Source-Separated Recyclable Material may be temporarily stored at the site not to exceed 72 hours.

These maximums were developed in accordance with the requirements of the Closure Cost Estimate as further described in Part III. These maximums will consist only of unprocessed materials on the tipping floor or waste or Source-Separated Recyclable Material being held or stored in the building in the event of equipment breakdown.

2.5 Waste Disposal and Source-Separated Recyclable Material Transport

All acceptable waste received will be landfilled at a Type I landfill in the Houston area permitted by the TCEQ. Source-Separated Recyclable Material will be accepted, unloaded on the tipping floor, and reloaded into trucks for transport to material recovery facilities. Waste and Source-Separated Recyclable Material will not be allowed on the tipping floor at the same time and the floor will be washed down before transitioning from one material to the other.

The justification for the 10 percent recycled material requirement allowing a Type V registration application versus a permit application is explained in Parts I/II Section 1.1.

Whole scrap tires will be removed from the waste stream and disposed of or recycled according to 30 TAC Chapter 328. Whole or scrap tires will be transported to a local registered scrap tire processor. Tires that are split in half or quartered are allowed at Type I landfills. Special wastes, liquid wastes, hazardous wastes, and PCB wastes will not be accepted.

2.6 Waste and Effluent Testing

The transfer station will not accept or process grit trap wastes or sludges, therefore 30 TAC 330.203(c)(2) does not apply and waste and effluent sampling and testing is not required.

Contaminated water from washing the tipping floor and any other water that has contacted waste or Source-Separated Recyclable Material will flow to drains in the loading tunnel that lead to an oil/water separator

before flowing to the City of Houston sanitary sewer, so the effluent testing requirements in 30 TAC 330.203(c)(l) apply.

The transfer station permittee will establish the method of sampling and testing for the contaminated water. The method of sampling, the frequency of sampling, and the tests shall be part of the sampling and analysis plan. All sampling and analysis shall be done according to approved USEPA methods. Records shall be maintained for a three-year period.

Sludge from the oil/water separator that is disposed of at a municipal solid waste landfill will be analyzed annually for benzene, lead, and TPH. At a minimum, effluent (contaminated water) from the transfer station will be analyzed annually for TPH, fats, oil and grease, and pH. Lab reports will be maintained at the facility for at least three years. All sampling and analysis shall be done according to EPA-approved methods.

3.0 FACILITY-GENERATED WASTE 30TAC330.205

The applicant/owner/operator shall comply with the requirements of 30 TAC330.205(a). The operator shall specify the characteristics and constituent concentrations of wastes generated by the facility and shall provide documentation that all wastes leaving the facility can be adequately managed by facilities that are licensed or permitted by the appropriate agencies to receive such wastes at the volumes and concentrations estimated in the facility design.

Wastes generated by the transfer station include the following:

- Restroom wastes – disposal into the City of Houston sanitary sewer. The constituents will be typical of residential wastewater
- Tipping floor washdown water – described below
- Sludge from the oil/water separator – described in Section 2.6 above

The applicant/owner/operator shall comply with the requirement of 30 TAC 330.205(d). The facility shall be designed and operated in a manner that sludges produced pass the Paint Filter Liquids Test, (United States Environmental Protection Agency (EPA) Method 9095) as described in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods". The facility shall be designed and operated to produce a sludge that is acceptable at municipal solid waste landfills and does not exceed the following standards. Sludges exceeding these limits shall not be disposed in municipal solid waste landfills and must be sent to an authorized facility for further processing or disposal as a hazardous waste or non-hazardous liquid waste, as appropriate or disposed in a municipal solid waste landfill with dedicated Class 1 industrial solid waste cells if the sludge is nonhazardous.

Contaminant	Total Limit	TCLP Limit
Benzene	10 milligrams per kilogram (mg/kg)	0.5 milligrams per liter (mg/L)
Lead	30 mg/kg	1.5 mg/L
Total petroleum hydrocarbons (TPH)	1,500 mg/kg	not applicable

4.0 CONTAMINATED WATER MANAGEMENT 30TAC330.207

The applicant/owners/operator shall comply with the requirements of 30 TAC 330.207(f). Wastewaters discharged to a treatment facility permitted under Texas Water Code, Chapter 26 must not:

(1) Interfere with or pass-through the treatment facility processes or operations;
(2) Interfere with or pass-through its sludge processes, use, or disposal; or
(3) Otherwise be inconsistent with the prohibited discharge standards, including 40 Code of Federal Regulations Part 403, General Pretreatment Regulations for Existing and New Source Pollution.

The applicant/owners/operator shall comply with the requirements of 30 TAC 330.207(g). The daily effluent design standard for oil and grease concentration leaving the facility and entering a public sewer system shall not exceed 200 milligrams per liter, the concentration established in the wastewater discharge permit pretreatment limit, or the concentration established by the treatment facility permitted under Texas Water Code, Chapter 26, the National Pollutant Discharge Elimination System, or the following liquid effluent limits, if the discharge points do not require compliance with locally set limits.

Effluent Characteristics	**Effluent limitations**	
	Maximum for any one day:	Average of daily values for 30 consecutive days shall not exceed:
	Metric units (kilograms (kg)/1,000 kg of raw material)	
Oil and grease	0.10	0.05
Total petroleum hydrocarbons (TPH)	0.01	0.01
pH	5.5 - 10.5	5.5 - 10.5
	English units (pounds (lbs)/1,000 lb of raw material)	
Oil and grease	0.10	0.05
TPH	0.01	0.01
pH	5.5 - 10.5	5.5 - 10.5

All liquids resulting from the operation of the transfer station will be disposed of in a manner that will not cause surface water or groundwater pollution. The storm water management plan designed to minimize and route storm water away from the tipping floor will provide surface water protection, thus minimizing the generation of contaminated water.

Contaminated water from washing the tipping floor and any other water that has contacted waste or Source-Separated Recyclable Material will flow to drains in the loading tunnel that lead to an oil/water separator before flowing to the City of Houston sanitary sewer.

Uncontaminated water is any water that has not contacted waste or Source-Separated Recyclable Material (referred to as storm water, clean storm water, surface water, and uncontaminated surface water). Contaminated water is any water that has contacted waste or Source-Separated Recyclable Material (eg. Wash water from the tipping floor).

Solid waste or Source-Separated Recyclable Material processing operations will be conducted on a concrete-paved area inside the transfer station building. Therefore, contact of storm water with waste or Source-Separated Recyclable Material is minimized. Wash water will not be allowed to accumulate on the tipping floor which will be sloped toward the loading tunnel. Wash water in the loading tunnel floor will be collected via grated drains, flow through an oil/water separator and monitoring manhole, and be disposed of in the City of Houston sanitary sewer system.

5.0 STORAGE REQUIREMENTS 30TAC330.209

Waste or Source-Separated Recyclable Material will be stored in such a manner that does not constitute a fire, safety, or health hazard and shall be contained or bundled so as not to produce litter. All waste or Source-Separated Recyclable Material storage or holding will occur within the building.

The transfer station plans to receive or store Source-Separated Recyclable Material but does not plan to recover material from solid waste.

30 TAC 330.209(b) states: "An on-site storage area for source-separated or recyclable materials will be provided that is separate from a transfer station or process area. Control of odors, vectors, and windblown waste from the storage area shall be maintained." The Northwest Transfer Station will either accept and manage waste or Source-Separated Recyclable Material but not at the same time. If necessary, either waste or Source-Separated Recyclable Material will be stored temporarily in the transfer station building, but both materials will not be stored at the same time.

Disease vectors, such as flies and rodents, will be controlled by minimizing the accumulation of waste or Source-Separated Recyclable Material or wastewater in the building. An exterminator will be contracted to spray or place traps at least twice per year to control vectors. Additional treatments will be scheduled as needed.

6.0 APPROVED CONTAINERS 30TAC330.211

All waste or Source-Separated Recyclable Material storage or holding will occur inside the building. No storage of waste or Source-Separated Recyclable Material materials will occur outside of the building.

Transfer trailers and containers holding non-allowable waste and Source-Separated Recyclable Material awaiting evaluation or transport will be maintained in a clean condition so that they do not constitute a nuisance and to retard the harborage, feeding, and propagation of vectors. All containers to be emptied manually will be capable of being serviced without the collector coming into physical contact with the solid waste or Source-Separated Recyclable Material. Containers to be mechanically handled will be designed to prevent spillage or leakage during storage, handling, or transport.

7.0 CITIZEN'S COLLECTION STATION 30TAC330.213

The Northwest Transfer station has a Neighborhood Waste Depository that has operated when the prior transfer station operated and has continued to operate since the transfer station was de-activated in 2023. The current Waste Depository is located near the intersection of Sommermeyer Street and Windfern Road. The proposed location is shown in see Attachment III-1, Sheet A-011.

The following requirements of 30 TAC 330.213 will continue to apply

> (a) Citizen's collection stations shall be provided with the type and quantity of containers compatible with the areas to be served. Rules shall be posted governing the use of the facility to include who may use it, what may or may not be deposited, etc. The responsible person that owns or operates the collection center shall provide for the collection of deposited waste on a scheduled basis and supervise the facility in order to maintain it in a sanitary condition.
>
> (b) A citizen's collection station may accept sharps from single-family or multi-family dwellings, hotels, motels, or other establishments that provide lodging and related services for the public. The sharps will not be considered medical waste, as defined in § 330.3 of this title (relating to Definitions).

8.0 REQUIREMENTS FOR STATIONARY COMPACTORS 30TAC330.215

The transfer station will not use a stationary compactor, therefore the requirements of 30 TAC 330.215 do not apply.

9.0 PRE-OPERATION NOTICE 30TAC330.217

The transfer station will not operate a mobile liquid processing unit or perform any liquid waste processing. Therefore, the requirements of 30 TAC 330.217 do not apply.

10.0 RECORD-KEEPING AND REPORTING REQUIREMENTS 30TAC330.219

The applicant shall comply with the following regulations: 30 TAC 330.673(c) – Facilities or processes not included in the scope of subsections (a) and (b) of this section shall be considered "facilities and processes not for disposal" and are not required to pay a fee to the TCEQ, but are required to submit reports. Facilities and processes not for disposal are those facilities that are permitted or registered independently from landfill, incinerator, or disposal processing operations and include transfer stations.

The applicant shall comply with the following regulations: 30 TAC 330.675(b) - (b) Facilities and processes not for disposal (as defined in § 330.673(c) of this title (relating to Fees)) are subject to reporting requirements, but are not required to pay a fee.

(1) Municipal Solid Waste Annual Summary Report frequency, report form, and report information.

(A) Report frequency. Annually, each facility or process operator shall report to the executive director the information requested on the report form for the appropriate reporting period (typically due on November 10th for the prior fiscal year which is from September 1 through August 31). An operator shall file a separate report for each facility that has a unique permit, permit application number, or registration number.

(B) Report form. The form of the report shall be in accordance with subsection (a)(1)(B) of this section. The form and other report requirements are described in TCEQ's Municipal Solid Waste Annual Reporting Program website.

(C) Report information. The information in the report shall be in accordance with subsection (a)(1)(C) of this section.

(2) Reporting units. The units used in reporting shall be in accordance with subsection (a)(2) of this section.

(3) Use of population equivalent. The use of the population equivalent method of reporting waste or Source-Separated Recyclable Material received or processed shall be in accordance with subsection (a)(3) of this section.

(4) Report due date. The required annual report shall be submitted to the executive director not later than 45 days following the fiscal year for which the report is applicable.

(5) Method of submission. The required report shall be delivered online (STEERS), by email, by fax, or in hard copy.

(6) Penalties. Failure of the facility or process operator to submit the required report by the due date shall be sufficient cause for the commission to revoke the permit or registration and authorization to process or dispose of waste or Source-Separated Recyclable Material. The commission may assess interest penalties for late payment of fees and may also assess penalties (fines) in accordance with Texas Water Code, § 7.051 or take any other action authorized by law to secure compliance.

A copy of the registration, registration application, approved site operating plan, an as- built set of construction plans and specifications, and other required plans and related documents will be maintained in the operating record at the transfer station scale house. These plans and documents will be furnished upon request to TCEQ representatives and made available for inspection. These plans and documents are part of the facility's operating record which will be maintained in an organized format that will allow information to be easily located and retrieved. All information contained within the operating record and the different required plans will be retained during the active life of the facility and until after certification of closure and will include:

- Access Control Inspection and Maintenance
- Daily Litter Pickup
- Windblown Waste and Litter Control Operations
- Dust Control Efforts
- Access Roadway Cleaning and Maintenance
- Fire Occurrence Notices, if applicable
- Documentation of Compliance with Approved Odor Management Plan, if applicable

In addition to the plans and documents listed above, the information below will be recorded and retained in the operating record:

Records to be Maintained and Rule Citation

- All location-restriction demonstrations 30 TAC 330.219(b)(i)
- Inspection records and training procedures 30 TAC 330.219(b)(2)
- Closure plans and monitoring / analytical data relating to closure requirements 30 TAC 330.219(b)(3)
- All cost estimates and financial assurance documents relating to financial assurance for closure 30 TAC 330.219(b)(4)
- 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 30 TAC 330.219(b)(5)
- All documents, manifests, shipping documents, trip tickets, etc., involving special waste §330.219(b)(6)
- Any other document(s) as specified by the approved registration or by the executive director §330.2 l 9(b)(7)
- Alternative schedules and notification requirements, if applicable §330.219(g)

All reports and other information requested by the executive director will be signed by the owner or operator of the transfer station as described in 30 TAC 305.44 or by a duly authorized representative. Regulation 30 TAC 330.219(c)(l)(A)-(C) describes the requirements for a duly authorized representative.

If an authorization under this section is no longer accurate because of a change in individuals or position, then a new authorization satisfying the requirement of this section will be submitted to the TCEQ prior to, or together with, any reports, information, or applications to be signed by an authorized representative. The person signing the report will make the certification in 30 TAC 305.44(b).

Untreated medical waste will not be accepted. Therefore, the requirements of 30 TAC 330.219(h) do not apply.

11.0 FIRE PROTECTION PLAN 30TAC330.221

The transfer station building will be equipped with a fire suppression system.

No burning of waste or Source-Separated Recyclable Material will be allowed at the site, unless specifically authorized under special conditions from the TCEQ Executive Director. Accidental fires will be promptly extinguished. To minimize fire hazards, employees will be trained in the potential sources of fires and their control, as described below. All buildings and machinery will be equipped with fire extinguishers of a type, size, number, and at locations specified by the fire marshal. All fire extinguishers will be kept fully charged, will have a current inspection, and will be ready at all times. A fire hydrant is present about 50 west of the transfer station property on the south side of Sommermeyer Street.

Flammable and combustible liquids will be stored in approved flammable-materials storage cabinets that are labeled. Smoking, open flames, temporary heaters, and spark-producing containers, devices, or tools will not be permitted in areas where flammable materials are stored or handled.

Personnel will observe incoming waste or Source-Separated Recyclable Material collection vehicles to detect evidence of pre-ignited materials which are usually evident from smoke and odors coming from the vehicle. The vehicle will be directed to an area of the site outside and not adjacent to the building, where waste or Source-Separated Recyclable Material can be safely discharged and the fire extinguished.

If the pre-ignited waste or Source-Separated Recyclable Material materials are discovered after being unloaded inside the transfer station, the load will be pushed, if practical and safe, to a location outside and not adjacent to the building, for control and extinguishing. The extinguished waste or Source-Separated Recyclable Material materials and any exhumed material will then be transported back into the transfer station for loading onto the transfer trailers.

The transfer station building will be equipped with a fire suppression system and portable fire extinguishers throughout the facility, as indicated on the site plans and specified by the fire marshal. Fire protection systems will be installed in conformance with local building and fire codes and subject to approval by the Houston fire marshal.

Any additional fire protection procedures required by the fire marshal to comply with the local fire codes will be incorporated into this Fire Protection Plan by a registration modification in accordance with 30 TAC 305.70.

Personnel safety will be a primary objective when managing fires. Site personnel will initiate the following procedures upon detecting a fire:

1. Call the fire department
2. Notify and request assistance from other operating personnel
3. Stop all site operations
4. Push the fire out of the building if possible
5. Use portable fire extinguishers and/or water hydrant
6. Confine fire to a small area
7. Approach the fire from any upwind position to minimize exposure to combustible products.

In all instances of fires at the transfer station, the City of Houston Fire Department will be notified. The nearest station, Station 66, is located at 5800 Teague Rd, Houston, TX 77041, approximately 0.7 miles south of the site. The emergency number is 911 and the non-emergency number is (832) 394-6700. The number for the Houston Fire Marshal is 832-394-6900.

If a fire occurs that is not extinguished within ten minutes of detection, the TCEQ's regional office will be contacted immediately after detection, but no later than four hours by telephone, and in writing within 14 days with a description of the fire and the resulting response.

The following firefighting equipment will be readily available in the event of fire:

- Fire suppression system (Attachment III-6, Drawing FP-101)
- Fire extinguishers located on heavy equipment
- A fire hydrant located about 50 feet west of the site on Sommermeyer Street.

11.1 Fire Protection Training

Fire protection professionals will train transfer station personnel in firefighting techniques, fire prevention, response, and the fire safety and protection aspects of the SOP. The training will occur as outlined previously in Section 1.3 of this Site Operating Plan. Personnel will be familiar with the use and limitations of firefighting equipment available onsite. Records of this training will be included in the site operating record.

12.0 ACCESS CONTROL 30TAC330.223

The applicant/owner/operator shall comply with the requirements of 30 TAC 330.223, presented below:

330.223(a) Public access to all municipal solid waste facilities shall be controlled by means of artificial barriers, natural barriers, or a combination of both, appropriate to protect human health and safety and the environment. Uncontrolled access to other operations located at a municipal solid waste facility shall be prevented.

330.223(b) The facility access road from a publicly owned roadway must be at least a two-lane gravel or paved road, designed for the expected traffic flow. Safe on-site access for commercial collection vehicles and for residents shall be provided. The access road design shall include adequate turning radii according to the vehicles that will utilize the facility and avoid disruption of normal traffic patterns. Vehicle parking shall be provided for equipment, employees, and visitors. Safety bumpers at hoppers shall be provided for vehicles. A positive means to control dust and mud shall be provided.

330.223(c) Access to the facility shall be controlled by a perimeter fence, consisting of a four-foot barbed wire fence or a six-foot chain-link fence or equivalent, and have lockable gates. An attendant shall be on-site during operating hours. The operating area and transport unit storage area shall be enclosed by walls or fencing.

Public access to the transfer station will be controlled with of a perimeter fence encompassing the entire property. Access will be limited to the gated entrances on Sommermeyer Street. Vehicle exits will be on Sommermeyer and Teague Road.

Site security measures are designed to prevent unauthorized persons from entering the site, to protect the facility and its equipment from possible damage caused by trespassers, and to prevent disruption of facility operations caused by unauthorized site entry. Unauthorized entry into the site is minimized by controlling access to the transfer station site with the perimeter fence and locking gates at the entrance and exit. The perimeter fence will consist of a 6-foot-high chain-link fence. Attachment III-6, Drawing TY-011 shows the Security Site Plan.

During operating hours, site personnel will continuously monitor the entrance gate to prevent unauthorized entry to facility. Entry to the active portion of the transfer station will be restricted to designated personnel,

approved waste and Source-Separated Recyclable Material haulers, and properly identified persons whose entry is authorized by site management.

A conspicuous sign measuring a minimum 4 feet by 4 feet will be maintained at the entrance to the facility. In letters at least 3-inches high, a sign that is readable from the entrance will state the facility name, facility type, the TCEQ registration number, hours of operation, 24-hour emergency contact phone number, and the local fire department phone number. Other signs stating rules will be posted throughout the site, including a sign listing prohibited wastes.

12.1 Site Security

Site security measures are designed to prevent unauthorized persons from entering the site, to protect the facility and its equipment from possible damage, and to prevent disruption of operations caused by unauthorized personnel. Unauthorized entry will be minimized by a six-foot-high chain link perimeter fence.

The site entrances located on Sommermeyer Street will be secured by a gate, and access to the transfer station will be monitored by the scalehouse attendant, who will be on site during operating hours. As needed, the scalehouse attendant may be replaced with an equipment operator, who will be required to have the same training as the gate attendant. The gate will be locked when the transfer station is not operating.

Entry to the active portion of the transfer station is restricted to designated personnel, approved waste and Source-Separated Recyclable Material haulers, and persons whose entry is authorized by site management. The general public will not have access to the facility. Safety bumpers will be provided at loading hoppers in the building according to 30 TAC 330.223(b).

The perimeter fence and gates will be inspected once per week for integrity and maintenance will be performed as needed.

The facility will comply with the following schedule and notification requirements for any access breach:

Requirements	Access Breach Repaired Within 8 Hours	Access Breach Not Permanently Repaired Within 8 Hours
Notify region office of breach and repair schedule	Not required	Within 24 hours
Make Temporary Repairs	Not required	Within 24 hours
Make Permanent Repairs	Within 8 Hours	Within schedule submitted to region office in initial notice
Notify TCEQ Region Office When Permanent Repairs Are Completed	Not required	Within schedule submitted to region office in initial notice

12.2 Traffic Control

Vehicle access to the facility will be provided by one entrance on Sommermeyer Street for waste collection trucks (aka route trucks) and Source-Separated Recyclable Material collection trucks. and another entrance for transfer trailers and depository roll-off trucks. Public vehicles will enter the depository from an entrance on Windfern Road. All vehicles will leave the facility via the exits on Sommermeyer Street or Teague Road.

The owner or operator will obtain required permits from appropriate governmental agencies prior to construction of the new driveway entrances and exits.

The site entrances and exits will be paved driveways with the widths shown on the Attachment III-1 Page 5 Architectural Site Plan and on the Attachment II-8 Transportation Study Site Plan. Vehicle access from a publicly owned roadway will be at least a two-lane paved road, designed for the expected traffic flow. The driveways will intersect Sommermeyer Street at a 90-degree angle at a location with no sight restrictions or conflicts that impair the turning of the trucks or the view of drivers. Collection trucks that turn into the proposed site entrance driveway will have approximately 200 feet of queueing room before they reach the scalehouse. The exits will be controlled by a stop sign.

Based on the proposed access routes and Transportation Study (Attachment II-8), the roadways that provide access to the facility are adequate in capacity and structure to continue to serve the needs of the transfer station and general public. There are no proposed public roadway improvements such as turning lanes or storage lanes associated with the site entrance.

Vehicle parking for employees and visitors will be located east of the Scale House as shown on Attachment III-1 Page 5 Sheet A-011. Heavy equipment will be parked inside the building. Safety bumpers will be placed at all hoppers and waste/recycling containers where wastes or recyclables will be unloaded.

Coordination with TxDOT and City of Houston is included in Attachment II-7.

13.0 UNLOADING WASTE OR SOURCE-SEPARATED RECYCLABLE MATERIAL 30TAC330.225

A waste and Source-Separated Recyclable Material flow diagram indicating the processing, storage, and disposal sequences for various types of waste and Source-Separated Recyclable Material is shown on Attachment III-2.

As shown on Attachments III-1 through III-3, collection trucks will enter the site, weigh-in at the scale house, then proceed up the paved ramp to the doors in the north building wall leading to the tipping floor. Trucks will then discharge their load onto the tipping floor and then exit the building, stop at the site exit, then turn onto Sommermeyer Street. After the waste or Source-Separated Recyclable Material has been processed (moved and observed for prohibited materials), track-mounted excavators with grapples will load transfer trucks staged in the loading tunnels. After transfer trailers are full and weighed in the loading tunnels, they will proceed to the tarping station and then exit. Empty transfer trucks that are awaiting loading will line up behind the loading tunnels on the paved area.

The entire building area is 38,640 square feet and the tipping floor area is approximately 30,000 square feet. This will be the only waste and Source-Separated Recyclable Material unloading area and will accept all types of approved waste and Source-Separated Recyclable Material as detailed in this SOP. The tipping floor is shown in Attachment III-4, Sheet A-112.

Once the incoming vehicle' s weight has been recorded, the gate attendant will direct incoming waste or Source-Separated Recyclable Material collection traffic to the tipping floor and inform the hauler that the waste or Source-Separated Recyclable Material is only to be unloaded on the tipping floor. Either waste or Source-Separated Recyclable Material will be accepted and managed on the tipping floor at any one time. Signs directing traffic from the scale house to the transfer station building will be located as needed along the route. Trained personnel inside the building will direct and observe the unloading of waste or Source-Separated Recyclable Material. The owner or operator is not required to accept any solid waste or Source-Separated Recyclable Material which they determine will cause or may cause problems in maintaining full compliance with TCEQ regulations.

Unloading waste or Source-Separated Recyclable Material in unauthorized areas will be prohibited. Any waste or Source-Separated Recyclable Material unloaded in an unauthorized area will be immediately moved to the tipping floor.

Trained personnel working inside the building will observe each load that is unloaded on the tipping floor and will have the authority and responsibility to reject unauthorized loads, and have the transporter remove unauthorized material. A record of unauthorized material removal will be maintained in the operating record.

Prohibited waste will not be allowed to enter the facility. The scalehouse attendant will be the first point of contact with the hauler who will be asked to describe the contents of the load. If safe, the scalehouse attendant will visually inspect open containers to verify contents. If prohibited wastes are identified in the load, the entire load will be turned away from the gate. If the prohibited waste is not detected in the load until unloading on the tipping floor, the load will be handled as discussed in Section 2.2 of this plan.

The proposed transfer station will hold a Type V Registration, and therefore will be authorized to accept municipal solid waste and Source-Separated Recyclable Material. Class 2 and 3 industrial non-hazardous waste may be accepted if the wastes are properly identified and the acceptance of such waste does not interfere with operations.

14.0 SPILL PREVENTION AND CONTROL 30TAC330.227

Solid waste or Source-Separated Recyclable Material processing will be conducted on concrete tipping floor. Therefore, contact of storm water with waste or Source-Separated Recyclable Material is limited. Uncontaminated water is any water that has not contacted waste or Source-Separated Recyclable Material. Contaminated water is any water that has contacted waste or Source-Separated Recyclable Material. The pavement and ground surface around the perimeter of the building will be graded to promote uncontaminated surface water drainage away from the building and toward the surface drainage features. Surface water at the entrance and exit to the loading tunnels will be intercepted by trench drains.

The tipping floor will be pressure washed as needed and will be sloped so that wash water will flow toward the loading tunnel. Wash water in the loading tunnel floor will be collected in grated drains beneath the scale platens which drain to a pipe that drains into an oil/water separator which will flow to a monitoring manhole and ultimately to the City of Houston sanitary sewer.

The storage and processing areas of the facility are designed to control and contain spills and contaminated water from leaving the facility. Contaminated water that drains from the waste or Source-Separated Recyclable Material will be collected as discussed above. Since this facility is an enclosed structure, the highest volume of liquid generated will occur when the tipping floor is being washed down.

15.0 OPERATING HOURS 30TAC330.229

The applicant/owner/operator shall comply with the requirements to 30 TAC 330.229, listed below:
(a) A site operating plan must specify the operating hours. The waste or Source-Separated Recyclable Material acceptance hours may be any time between the hours of **7:00 a.m. and 7:00 p.m., Monday through Friday**, unless otherwise approved by the executive director or commission for a permit. The operating hours for operating heavy equipment and transporting materials on- or off-site may be any time between the hours of 5:00 a.m. and 9:00 p.m., Monday through Friday, unless otherwise approved in the authorization. Other activities do not require specific approval.
(b) In addition to the requirements of subsection (a) of this section, the authorization may include alternative operating hours of up to five days in a calendar-year period to accommodate special occasions, special purpose events, holidays, or other special occurrences.

(c) The commission's regional offices may allow additional temporary operating hours to address disaster or other emergency situations, or other unforeseen circumstances that could result in the disruption of waste management services in the area.
(d) The facility must record, in the site operating record, the dates, times, and duration when any alternative operating hours are utilized.

If the operator chooses to accept waste or Source-Separated Recyclable Material during a shorter period, those operating hours will be posted on the entrance sign.

16.0 FACILITY SIGN 30TAC330.231

A conspicuous and readable sign will be displayed at the site entrance measuring at least four feet by four feet, have lettering at least three inches high stating the name of the site, type, hours and days of operation, emergency 24-hour contact phone number, local fire department phone number, TCEQ registration number, and prohibited wastes.

Other signs will state:

- Rules, operating procedures, and warnings
- Disposal area locations and which roads are to be used
- No smoking signs will be posted near the facility entrance or scale house
- All loads will be properly covered or otherwise secured

17.0 CONTROL OF WINDBLOWN MATERIAL AND LITTER 30TAC330.233

Waste or Source-Separated Recyclable Material will be unloaded and re-loaded inside the transfer station building and will be protected from the weather. A six-foot-high (minimum) perimeter chain-link fence surrounding the site will capture any incidental windblown trash. Litter along fence lines, access roads, or surrounding the building will be collected and brought to the processing area at least once per day when the facility is operating. Collection vehicles will be completely enclosed or covered as they enter and exit the facility to minimize windblown trash.

18.0 MATERIALS ALONG ROUTE TO THE FACILITY 30TAC330.235

The transfer station will require that waste or Source-Separated Recyclable Material hauling vehicles are enclosed, tarped, or provide other means to contain the load. In addition to routine checks by the gate attendant, the facility will post signs, report offenders to law enforcement, add surcharges, or take similar measures to prevent spillage of waste or Source-Separated Recyclable Material on access routes. During operating days, the transfer station will conduct a litter patrol at least once per day to collect waste or Source-Separated Recyclable Material spilled along and within the right-of-way of all public access roads serving the facility for one mile in either direction from the entrances to the facility. The transfer station manager or his designee will consult with TxDOT officials as necessary concerning cleanup of state highways and rights-of-way consistent with 30 TAC §330.235.

19.0 FACILITY ACCESS ROADS 30TAC330.237

Driveways on the transfer station property will be paved and accessible in all weather conditions. The surface condition of these driveways will be maintained and repaired regularly to eliminate potholes or low spots that may impound water and to minimize the tracking of mud and trash onto public roads. Any tracked mud and associated debris which may be brought into the facility driveways will be cleaned by washing, sweeping, or scraping, as necessary, to minimize tracking those materials onto the public roadways. Litter

and any other debris will be picked up at least daily and taken to the transfer station for disposal. Fugitive dust emissions will be minimized by the surfacing of all site driveways and regular cleaning procedures.

20.0 NOISE POLLUTION AND VISUAL SCREENING 30TAC330.239

The site is designed to minimize the potential for noise pollution and visual impact to neighbors and the public. Waste or Source-Separated Recyclable Material unloading, movement, and reloading will occur within the transfer station building with the doors facing north and south away from Neches Street.

21.0 OVERLOADING AND BREAKDOWN 30TAC330.241

The transfer station will not accumulate solid waste or Source-Separated Recyclable Material in quantities that cannot be processed within such time as will preclude the creation of odors, insect breeding, or harboring of other vectors. If such accumulations occur, additional solid waste or Source-Separated Recyclable Material shall not be received until the adverse conditions are abated. All waste or Source-Separated Recyclable Material storage or holding will occur within the building. No storage of waste or Source-Separated Recyclable Material materials will occur outside of the building.

If a significant work stoppage should occur at the facility due to a mechanical breakdown or other causes, the facility will accordingly restrict the receiving of solid waste or Source-Separated Recyclable Material. Under such circumstances, incoming solid waste or Source-Separated Recyclable Material shall be diverted to an approved backup processing or disposal facility. If the work stoppage is anticipated to last longer than 24 hours or long enough to create objectionable odors, insect breeding, or harboring of vectors, steps shall be taken to remove the accumulated solid waste or Source-Separated Recyclable Material from the site to an approved backup processing or disposal facility. As stated in 30 TAC 330.241(c): The owner or operator shall have alternative processing or disposal procedures for the solid waste or Source-Separated Recyclable Material in the event that the facility becomes inoperable for periods longer than 24 hours.

22.0 SANITATION 30TAC330.243

The tipping floor, push-walls, and other working surfaces that contact waste or Source-Separated Recyclable Material will be washed weekly at a minimum, including when transitioning from managing waste to Source-Separated Recyclable Material and vice versa. Wash waters will not be allowed to accumulate on the tipping floor or in the tunnels and will be directed toward the back of the building and into the loading tunnel area via a sloped tipping floor. The wash water in the loading tunnel floor area will be collected in drains beneath the scale platens, then flow to a oil/water separator, then monitoring manhole, which is connected to the City of Houston sanitary sewer for disposal.

The layout drains, oil/water separator, and associated piping for the handling of contaminated water are presented in Part III, Attachment III-6.

The contaminated water system (tipping floor and tunnels through manhole) will be inspected on a monthly basis and cleaned as needed.

23.0 VENTILATION AND AIR POLLUTION CONTROL 30TAC330.245

Ventilation will be provided in accordance with the current TCEQ MSW Air Permitting rules and regulations applicable to municipal solid waste facilities. Ventilation will be provided in the transfer station building using fans mounted near the roof peak for both odor control and employee safety. Excessive dust and particulates that occur in the building will be controlled using water sprays, mist systems, or similar methods. The facility will be connected to the City of Houston water supply system which will provide water for dust control.

A minimum 50-foot buffer will be provided between the transfer building and the site boundaries to prevent nuisance odors from leaving the boundary of the facility.

If, at any time, nuisance odors are found to be passing the facility boundary, The transfer station manager will initiate the mobilization and operation of odor control equipment. The facility may be required to suspend operations until the nuisance has been properly abated.

All air pollution emission capture and abatement equipment, such as a misting system, or equivalent technology will be properly maintained and operated, as required, during facility operation. Cleaning and maintaining of the abatement equipment will be performed as recommended by the manufacturer.

Transfer station management will ensure that the operation of the facility does not violate any applicable requirements of the approved state implementation plan developed under the Federal Clean Air Act, Section 110, as amended, and TAC 330.lS(d), which prohibits the burning of waste.

The transfer station will implement an odor management plan as described below.

- The facility will not accumulate solid waste or Source-Separated Recyclable Material in quantities that cannot be processed quickly enough to prevent the creation of odors, insect breeding, or harboring of vectors. If such accumulations occur, additional solid waste or Source-Separated Recyclable Material shall not be received until the adverse conditions are abated. All waste or Source-Separated Recyclable Material storage or holding will occur within the building.
- The building is totally enclosed with doors in only the north walls to prevent nuisance odors from leaving the property boundary.
- If a significant work stoppage should occur because of a mechanical breakdown or other cause, the facility will restrict the receipt of waste or Source-Separated Recyclable Material. Under such circumstances, incoming solid waste or Source-Separated Recyclable Material shall be diverted to an approved backup processing or disposal facility. If the work stoppage is expected to continue for long enough to create objectionable odors, insect breeding, or harboring of vectors, the accumulated solid waste or Source-Separated Recyclable Material will be removed and transported to an approved processing or disposal facility.
- Odors that could be caused by ponded water will be prevented by maintaining surfaces to prevent accumulation.
- To minimize odors inside the transfer station building, the tipping floor, push walls, and any other work surfaces that contact waste or Source-Separated Recyclable Material will be washed down as needed.
- Wash waters will not be allowed to accumulate on the tipping floor or in the tunnels and will be disposed of as described above under Sanitation
- Air emissions from the facility will not cause or contribute to a condition of air pollution as defined in the Texas Clean Air Act. If necessary, the transfer station and air pollution control devices will obtain authorization under 30 TAC Chapter 116 or 30 TAC 330 Subchapter U.

Reporting emissions events, if applicable, will occur in accordance with 30 TAC 101.201 and reporting scheduled maintenance will occur in accordance with 30 TAC 101.211.

24.0 HEALTH AND SAFETY 30TAC330.247

The transfer station manager will be responsible to ensure that workers are routinely trained in the facility' s health and safety plan. The transfer station manager will enforce safety rules and policies and promptly investigate and report all accidents. Operators will wear personal protective equipment such as hard hats, safety glasses, and dust masks when appropriate. Fire extinguishers will be available and the building will have a fire suppression system. Detailed procedures that comprise the Safety Plan for the facility are discussed below.

24.1 Emergency Preparedness

Preparedness and preventive measures to minimize both the frequency and severity of accidents and emergency situations threatening human health will be implemented at the facility. These measures will largely depend on the attentiveness and state of readiness of facility personnel. All workers will be trained in the subjects below.

24.1.1 General Measures

The following general measures will be implemented:

- Employee rest periods will be provided to minimize employee fatigue, maintain alertness, and reduce accident potential
- Access controls will prevent entry of unauthorized personnel
- Routine preventive equipment maintenance will be provided
- A management representative will perform regular site inspections
- Appropriate personnel safety equipment will be maintained on site in good condition
- Adequate turning area for hauling vehicles will be provided
- Scavenging will be prohibited and drivers will be required to stay close to their vehicles for their protection
- Unloading will be restricted to designated areas only
- Site personnel will be alert for possible prohibited wastes entering site
- Prohibited wastes will be controlled or contained and removed as necessary

24.1.2 Measures for the Unloading and Receiving Area

The following measures will be implemented within the unloading/receiving area:

- Inspect loads based on guidelines detailed in Section 2.2
- Observe incoming vehicles for evidence of improper operation, faulty equipment, or other conditions that could be dangerous to workers or other persons onsite
- Make emergency equipment available and maintain a first-aid kit
- Post emergency telephone numbers
- Display signs warning transporters that hazardous wastes, PCBs, radioactive, and other prohibited wastes are not accepted

24.2 Emergency and Contingency Procedures

Emergency and contingency procedures will be implemented at the facility in the event of accidents or environmentally significant releases. These procedures constitute an initial response that will be supplemented, as needed, by outside emergency services. Emergency assistance requests will be handled through conventional means (eg. calling 911). The following situation-specific procedures are proposed.

24.2.1 Accidents

The procedures to address various types of accidents are discussed in the following sections.

24.2.1.1 General Procedures

For an incident involving a spill or release that requires notification, site personnel should:

- Stop the source of the spill if safe to do so
- Contain the spill to prevent an offsite discharge
- Notify the transfer station manager
- Determine the property method of spill debris disposal

Arrange to collect, store, treat, or dispose of all recovered waste or Source-Separated Recyclable Material and clean-up residue.
Investigate possible methods of preventing recurrence of the incident.

If the spill exceeds a reportable quantity, notify the appropriate federal, state, or local agency affected by the release with the following information:

1. Caller's name and telephone number
2. Name and address of the facility
3. Time and type of release
4. Name and quantity of material(s) involved (to the extent known)
5. Extent of injuries, if any
6. Possible hazards to human health or the environment outside the facility

24.2.1.2 Vehicular Accidents

If an accident involving vehicles or site equipment occurs, site personnel should:

1. If a personal injury occurred, follow the steps outlined in Section 24.2.1.3 which addresses personal accidents
2. Determine whether the vehicles can be safely moved under its own power
    a. If so, move the vehicles out of the way of normal traffic flow
    b. If the vehicles cannot move by its own power and is interrupting traffic flow, push the vehicle out of the way using site equipment
3. Notify the transfer station manager of the details of the accident
4. Arrange to have any disabled vehicles towed from the facility in accordance with specific instructions from the transfer station manager

24.2.1.3 Personnel Accidents

1. Determine the nature and extent of the injuries
2. Administer basic emergency first-aid techniques if safe
3. Call for outside emergency assistance (EMS)
4. Report incident to the transfer station manager
5. Transport victim(s) to a professional medical care facility by conventional means, if injuries require non-emergency medical attention

24.2.2 Releases

The procedures to address various types of releases are discussed in the following sections.

24.2.2.1 Sudden Releases

For sudden releases of smoke, vapors, liquids, or unusual odors, site personnel should:

1. Remove personnel from the area, if safety is threatened
2. Discontinue operation in the immediate area until authorized to resume

3. Notify the transfer station manager, who will investigate the cause and correct it.
4. Notify the transfer station manager of the extent of the sudden release and prepare a plan of action to correct the problem.

24.2.2.2 Non-sudden releases

For non-sudden releases involving persistent odors or windblown waste, site personnel should:

1. Notify the transfer station manager of the non-sudden release and recommend actions to be taken
2. Undertake site remedial action to contain the release or mitigate its effects including, but not limited to, capping the escape point with soil or impervious material, treatment, or off-site disposal.

25.0 EMPLOYEE SANITATION FACILITIES 30TAC330.249

Potable water and sanitary facilities will be provided for all employees and visitors at the scale house. Portable sanitary facilities may be utilized and will be maintained in accordance with instructions from the vendors.

26.0 DISEASE VECTOR CONTROL

Disease vectors such as flies and rodents will be controlled by minimizing the accumulation of waste or Source-Separated Recyclable Material and wastewater in the building. An exterminator will be hired twice per year to control vectors. Additional treatments will be scheduled if vectors reappear.

27.0 DISPOSAL OF LARGE ITEMS

Bulky and large items arriving at the transfer station will be placed on the tipping floor to allow the loader to crush and flatten them prior to loading into a transfer trailer. Where this is not possible, bulky or large items will be carefully loaded into transfer trailers.

Refrigerators, freezers, air conditioners, and any other items containing chlorinated fluorocarbons (CFC) will be handled in accordance with 40 Code of Federal Regulations. Verification that the refrigerant has been removed and collected from appliances will be required prior to acceptance of the appliances at the facility. The verification will include a signed statement, the name and address of the person who recovered the refrigerant, and the date the refrigerant was recovered. Any appliances containing refrigerant that have been inadvertently accepted will be taken to a certified refrigerant removing company where the refrigerant will be removed prior to processing for recycling or disposal.

28.0 SALVAGING AND SCAVENGING

Salvaging and scavenging will not be allowed. Facility workers will monitor the facility and use site access controls to prevent scavenging.

29.0 HANDLING OF INDUSTRIAL WASTES

The Northwest Transfer Station will not accept Class 1 non-hazardous industrial waste. Class 2 industrial waste is allowed as defined in 30 TAC 335.508(3). Class 3 non-hazardous industrial wastes may be accepted and include inert and essentially insoluble industrial solid waste such as rock, brick, glass, dirt, certain plastics and rubber that are not readily decomposable as defined in 30 TAC 335.507.

30.0 FACILITY INSPECTION AND MAINTENANCE

The table below contains the inspection and maintenance lists of the facility. The facility manager or designee will perform the tasks. The inspection documentation will be retained in the operating record.

Item	Task	Frequency
Fence and Gates	Inspect perimeter fence and gates and repair as needed	Weekly
Litter	Pick up trash on property, roads, and perimeter fence	Daily as in Section 17.0.
Waste or Source-Separated Recyclable Material Spilled in Access Route	Pick up trash around entrance, exit, and Neches and Kelley Streets within one mile of transfer station	Daily as in Section 18.0.
Transfer Station Access Road	Inspect access road for damage and mud accumulation. Remove mud at least once per operating day.	At least weekly during wet weather or extended dry weather periods.
Signs	Inspect all facility signs for damage, general location, and accuracy of posted information.	Weekly
Odors	Inspect the perimeter of the facility to assess the performance of operations to control odor.	Daily
Drainage Channels	Inspect drainage channels, subsurface detention system, and pond to verify that they are functioning as designed	Weekly and within 72-hours of a rainfall event of 0.5inches or more.

31.0 ATTACHMENTS

None