


# RMR SCREENING SUMMARY

July 2022

## GENERAL INFORMATION

Project C-R-S / Name:	CUY-IR77-10.08/11.11	PID:	21788	District:	12
Brief Project Description:	The project proposes the replacement of the CSX Railroad Bridge over Interstate (IR-77) (SFN: 1806270) located just south of Grant Avenue in Cuyahoga Heights. Based on Stage 1 Plan Sheets, the existing structure is 120 feet long over IR-77 with a center pier. The new structure measures 240 feet long over IR-77 and will have no center pier.				
Report Author(s):	Jessica Deeds				
Affiliation:	TranSystems				

## CERTIFICATION *(Must be acknowledged by Prequalified Individual)*

<input checked="" type="checkbox"/>	I certify that I have personally examined and am familiar with the information in this document and all attachments, and that the data collection was supervised by an individual(s) prequalified to conduct the RMR for ODOT or by trained ODOT Environmental staff. Based on my inquiry of those persons immediately responsible for obtaining the information contained herein, I believe that the information has been collected in accordance with the ODOT RMR Manual current at the time of this submittal, and is true, accurate, and complete.				
Name:	Brian Metz	Signature:			
Title:	Senior Environmental Scientist	Date:	12/19/2022		
Email:	bsmetz@transystems.com	Phone Number:	614-433-7800		

## BLOCK 1

1a:	Does Permanent right-of-way (ROW) need to be obtained for the Project?	Yes
1b:	Will the Project involve excavations greater than 6 feet deep (excluding projects which only include signal pole installation)?	Yes
1c:	Is the Project on the 513 Exemption listed?	No
1d:	Is the Project within 300-feet of a landfill?	No
<ul style="list-style-type: none"> <li>• If answer to Questions 1a and/or 1b are Yes or UNKNOWN, skip Questions 1c and 1d and continue to Block 2.</li> <li>• If answer to Questions 1a and 1b are NO and 1c is YES - Stop Here. Project is exempt from further evaluation. Complete through Block 1 as documentation of the RMR Screening and upload the RMR Screening Summary Sheet (this form).</li> <li>• If answer to 1a, 1b and 1c are NO, conduct a Landfill Specific ORPS.</li> <li>• If answer to 1d is NO, complete through Block 1 as documentation of the RMR Screening and upload the RMR Screening Summary Sheet (this form), Landfill Specific map and Summary ORPS to EnviroNet. Project is exempt from further evaluation.</li> <li>• If answer to 1d is YES, complete through Block 1 as documentation of the RMR Screening and upload the RMR Screening Summary Sheet (this form) and Landfill Specific map and Summary ORPS to EnviroNet. Send Project to OES for Rule 513 determination.</li> </ul>		

## BLOCK 2 - COMPLETE FULL ORPS AND PROPERTY INVENTORY

Complete Columns 1-6 of the "Property Inventory: Properties Within or Abutting" and (if applicable) Complete "Remote Property Inventory" tables.
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## BLOCK 3 - INITIATE PROJECT SCREENING


Are all Properties within the Project Limits Exempt OR have no Take and no Deep Excavation; AND Project is not with 300 feet of a Landfall and/or there are no Remote Properties identified in ORPS Listing?	No
If the answer is YES - Upload this Form and attachments to EnviroNet; the Project is considered Exempt from further evaluation for Regulated Materials. If the answer is No or Unknown - Complete the Property Inventory (Columns 7-10).	

PROPERTY INVENTORY: PROPERTIES WITHIN OR ABUTTING PROJECT LIMITS

Property Inventory: Properties Within or Abutting Project Limits														
Column 1			Column 2		Column 3	Column 4	Column 5	Column 6			Column 7		Column 8	Column 9
ODOT / RMR Property ID#	Tenant / Owner Name	Property Street Address	Current Land Use	Current or Past RM Concern Noted during Review?	Select RCRA ORPS Listing(s). (Check all that apply.)	Select ORPS Listing(s). (Check all that apply.)	What Is the determined Land Use Risk based on Columns 2, 3 and 4	Total or Partial Take?	Is There Demolition?	Is There Deep Excavation?	Is the Property Likely Impacted by RM?	Is Property RM Likely Encountered in Construction?	Action Result?	Comments
RM-001	Willow Parkway Development, LLC.  Retail store operated by Jordan Power Equipment company which sells and services commercial cleaning machines.	4549-4551 Willow Parkway	Commercial (bank, office, store, lodging, care)  Retail Store	No  If yes, note RM concern here.	<input checked="" type="checkbox"/> No RCRA <input type="checkbox"/> CESQG/SQG <input type="checkbox"/> LOG <input type="checkbox"/> CORRACTS <input type="checkbox"/> Non-CORRACTS <input type="checkbox"/> Unspecified Universe <input type="checkbox"/> TSD <input type="checkbox"/> Non-Generator <input type="checkbox"/> Other (Specify in Comments)  If "Other" selected, explain here.	<input checked="" type="checkbox"/> No ORPS <input type="checkbox"/> CERCLIS/NFRAP <input type="checkbox"/> I/E Control <input type="checkbox"/> UST/LUST <input type="checkbox"/> NPL <input type="checkbox"/> Ohio VAP <input type="checkbox"/> SPILLS <input type="checkbox"/> SWF <input type="checkbox"/> Town Gas <input type="checkbox"/> DERR Database <input type="checkbox"/> Other (Specify in Comments)  If "Other" selected, explain here.	Low	No Take	No	No	No  Cite impact concerns here, if any.	No  Cite impact concerns here, if any.	RMR Complete	Enter text here.
RM-002	4555 Willow Parkway, LLC.  Retail store operated by Advanced Door Company which sells doors for both residential and commercial uses.	4555 Willow Parkway	Commercial (bank, office, store, lodging, care)  Retail Store	Yes  Historic industrial use of the property.	<input checked="" type="checkbox"/> No RCRA <input type="checkbox"/> CESQG/SQG <input type="checkbox"/> LOG <input type="checkbox"/> CORRACTS <input type="checkbox"/> Non-CORRACTS <input type="checkbox"/> Unspecified Universe <input type="checkbox"/> TSD <input type="checkbox"/> Non-Generator <input type="checkbox"/> Other (Specify in Comments)  If "Other" selected, explain here.	<input checked="" type="checkbox"/> No ORPS <input type="checkbox"/> CERCLIS/NFRAP <input type="checkbox"/> I/E Control <input type="checkbox"/> UST/LUST <input type="checkbox"/> NPL <input type="checkbox"/> Ohio VAP <input type="checkbox"/> SPILLS <input type="checkbox"/> SWF <input type="checkbox"/> Town Gas <input type="checkbox"/> DERR Database <input type="checkbox"/> Other (Specify in Comments)  If "Other" selected, explain here.	High	No Take	No	No	No  Cite impact concerns here, if any.	RMR Complete	Enter text here.	
RM-003	Freeway Realty Company  Leased building to VIP Pet Care Veterinary Clinic	4565 Willow Parkway	Commercial (bank, office, store, lodging, care)  Veterinary Clinic	No  If yes, note RM concern here.	<input checked="" type="checkbox"/> No RCRA <input type="checkbox"/> CESQG/SQG <input type="checkbox"/> LOG <input type="checkbox"/> CORRACTS <input type="checkbox"/> Non-CORRACTS <input type="checkbox"/> Unspecified Universe <input type="checkbox"/> TSD <input type="checkbox"/> Non-Generator	<input checked="" type="checkbox"/> No ORPS <input type="checkbox"/> CERCLIS/NFRAP <input type="checkbox"/> I/E Control <input type="checkbox"/> UST/LUST <input type="checkbox"/> NPL <input type="checkbox"/> Ohio VAP <input type="checkbox"/> SPILLS <input type="checkbox"/> SWF <input type="checkbox"/> Town Gas	Low	No Take	No	No	No  Cite impact concerns here, if any.	No  Cite impact concerns here, if any.	RMR Complete	Enter text here.

					<input type="checkbox"/> Other (Specify in Comments) If "Other" selected, explain here.	<input type="checkbox"/> DERR Database <input type="checkbox"/> Other (Specify in Comments) If "Other" selected, explain here.								
RM-004	MCS Ltd. Partnership  Warehouse operated by Trimark SS Kempton restaurant supply store	4567 Willow Parkway	Commercial (bank, office, store, lodging, care)  If "Other" land use selected, explain here.	Yes  Former Oak Drum Manufacturer	<input checked="" type="checkbox"/> No RCRA <input type="checkbox"/> CESGQ/SQG <input type="checkbox"/> LOG <input type="checkbox"/> CORRACTS <input type="checkbox"/> Non-CORRACTS <input type="checkbox"/> Unspecified Universe <input type="checkbox"/> TSD <input type="checkbox"/> Non-Generator <input type="checkbox"/> Other (Specify in Comments) If "Other" selected, explain here.	<input checked="" type="checkbox"/> No ORPS <input type="checkbox"/> CERCLIS/NFRAP <input type="checkbox"/> I/E Control <input type="checkbox"/> UST/LUST <input type="checkbox"/> NPL <input type="checkbox"/> Ohio VAP <input type="checkbox"/> SPILLS <input type="checkbox"/> SWF <input type="checkbox"/> Town Gas <input type="checkbox"/> DERR Database <input type="checkbox"/> Other (Specify in Comments) If "Other" selected, explain here.	High	Partial Take	No	Yes	Yes  Potentially impacted by RM concerns associated with historic industrial usage of the Property.	Yes  Potential to contact concerns associated with historic industrial use.	RMR Investigation	Investigation recommended due to deep excavation, partial take, and historic industrial use of the area.
RM-005	CSX Railroad right-of-way surrounding existing bridge	No address	Railroad, featureless track  If "Other" land use selected, explain here.	No  If yes, note RM concern here.	<input checked="" type="checkbox"/> No RCRA <input type="checkbox"/> CESGQ/SQG <input type="checkbox"/> LOG <input type="checkbox"/> CORRACTS <input type="checkbox"/> Non-CORRACTS <input type="checkbox"/> Unspecified Universe <input type="checkbox"/> TSD <input type="checkbox"/> Non-Generator <input type="checkbox"/> Other (Specify in Comments) If "Other" selected, explain here.	<input checked="" type="checkbox"/> No ORPS <input type="checkbox"/> CERCLIS/NFRAP <input type="checkbox"/> I/E Control <input type="checkbox"/> UST/LUST <input type="checkbox"/> NPL <input type="checkbox"/> Ohio VAP <input type="checkbox"/> SPILLS <input type="checkbox"/> SWF <input type="checkbox"/> Town Gas <input type="checkbox"/> DERR Database <input type="checkbox"/> Other (Specify in Comments) If "Other" selected, explain here.	High	Partial Take	No	Yes	Yes  Potentially impacted by RM concerns associated with normal RR use as well as historic industrial use of the area.	Yes  Potential to contact concerns associated with historic industrial use.	RMR Investigation	Investigation recommended due to deep excavation, partial take, and historic industrial use of the area.
RM-006	Cleveland Regional Sewer District	6000 Canal Street	Government Maintenance Facility  If "Other" land use selected, explain here.	Yes  Property is the Cleveland Regional Sewer District, listed on Ohio DERR and LUST.	<input checked="" type="checkbox"/> No RCRA <input type="checkbox"/> CESGQ/SQG <input type="checkbox"/> LOG <input type="checkbox"/> CORRACTS <input type="checkbox"/> Non-CORRACTS <input type="checkbox"/> Unspecified Universe <input type="checkbox"/> TSD <input type="checkbox"/> Non-Generator <input type="checkbox"/> Other (Specify in Comments)	<input type="checkbox"/> No ORPS <input type="checkbox"/> CERCLIS/NFRAP <input type="checkbox"/> I/E Control <input checked="" type="checkbox"/> UST/LUST <input type="checkbox"/> NPL <input type="checkbox"/> Ohio VAP <input type="checkbox"/> SPILLS <input type="checkbox"/> SWF <input type="checkbox"/> Town Gas <input checked="" type="checkbox"/> DERR Database	High	Partial Take	No	Yes	Yes  Potentially impacted by RM concerns associated with historic industrial use of the area.	Yes  Potential to contact concerns associated with historic industrial use.	RMR Investigation	Investigation recommended due to deep excavation, partial take, and historic industrial use of the area.

					If "Other" selected, explain here.	<input type="checkbox"/> Other (Specify in Comments) If "Other" selected, explain here.								
RM-007	DP 136 LLC.  Joshen Paper & Packaging Retail Store	5800 Grant Avenue	Commercial (bank, office, store, lodging, care)  If "Other" land use selected, explain here.	Yes  Formerly manufacturing company, also LUST/UST listed	<input checked="" type="checkbox"/> No RCRA <input type="checkbox"/> CESHQ/SQG <input type="checkbox"/> LOG <input type="checkbox"/> CORRACTS <input type="checkbox"/> Non-CORRACTS <input type="checkbox"/> Unspecified Universe <input type="checkbox"/> TSD <input type="checkbox"/> Non-Generator <input type="checkbox"/> Other (Specify in Comments)  If "Other" selected, explain here.	<input type="checkbox"/> No ORPS <input type="checkbox"/> CERCLIS/NFRAP <input type="checkbox"/> I/E Control <input checked="" type="checkbox"/> UST/LUST <input type="checkbox"/> NPL <input type="checkbox"/> Ohio VAP <input type="checkbox"/> SPILLS <input type="checkbox"/> SWF <input type="checkbox"/> Town Gas <input type="checkbox"/> DERR Database <input type="checkbox"/> Other (Specify in Comments)  If "Other" selected, explain here.	High	Partial Take	No	Yes	Yes  LUST/UST  Potentially impacted by RM concerns associated with historic industrial usage of the Property.	No  Potential to contact concerns associated with historic industrial use.	RMR Investigation	Investigation recommended due to deep excavation, partial take, and historic industrial use of the area.
RM-008	3320 Woodland Avenue Ltd.  Northern Stamping Inc, Metal stamping services	6600 Chapek Parkway	Manufacturing  If "Other" land use selected, explain here.	Yes  Historic SWF - Tocco Plant, LUST	<input type="checkbox"/> No RCRA <input checked="" type="checkbox"/> CESHQ/SQG <input type="checkbox"/> LOG <input type="checkbox"/> CORRACTS <input type="checkbox"/> Non-CORRACTS <input type="checkbox"/> Unspecified Universe <input type="checkbox"/> TSD <input type="checkbox"/> Non-Generator <input type="checkbox"/> Other (Specify in Comments)  If "Other" selected, explain here.	<input type="checkbox"/> No ORPS <input type="checkbox"/> CERCLIS/NFRAP <input type="checkbox"/> I/E Control <input type="checkbox"/> UST/LUST <input type="checkbox"/> NPL <input type="checkbox"/> Ohio VAP <input type="checkbox"/> SPILLS <input checked="" type="checkbox"/> SWF <input type="checkbox"/> Town Gas <input type="checkbox"/> DERR Database <input type="checkbox"/> Other (Specify in Comments)  If "Other" selected, explain here.	High	Partial Take	No	Yes	Yes  Historic SWF- Tocco Plant C&DD Landfill; Historic industrial use of area.	Yes  Historic SWF - Tocco Plant and C&DD Landfill; Historic industrial use of the area.	RMR Investigation	Note: C&DD Landfill does not require Rule 513 Permit.  Investigation recommended due to deep excavation, partial take, and historic industrial use of the area.

Use  button (bottom-right corner of table) to add rows for each property as needed.

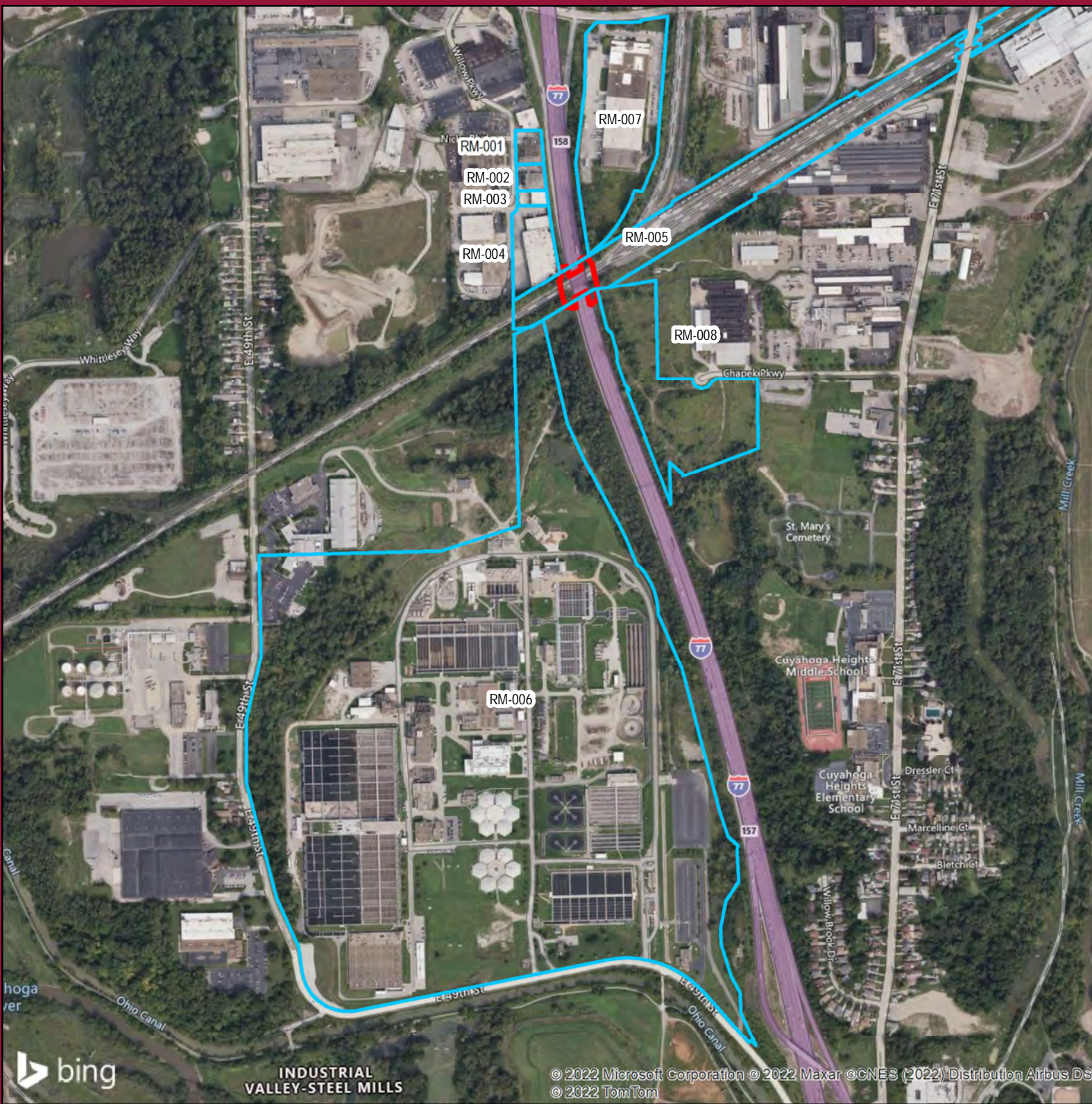
REMOTE PROPERTY INVENTORY: Properties NOT Within/Abutting Project Limits

Remote Property Inventory: Properties NOT Within/Abutting Project Limits						
Column 1			Column 2		Column 3	Column 4
ODOT/RMR Property ID#	Tenant/Owner Name	Property Street Address	Select RCRA ORPS Listing(s). (Check all that apply.)	Select ORPS Listing(s). (Check all that apply.)	Is Remote Property Upgradient or Downgradient from Project Limits?	Date DEC Notified and Comment (if applicable)
RM-009	Boyas Contributions, LLC. Nicky Boulevard Landfill	Nicky Boulevard Parcel ID: 522-08-044	<input checked="" type="checkbox"/> No RCRA <input type="checkbox"/> CESGQ/SQG <input type="checkbox"/> LQG <input type="checkbox"/> CORRACTS <input type="checkbox"/> Non-CORRACTS <input type="checkbox"/> Unspecified Universe <input type="checkbox"/> TSD <input type="checkbox"/> Non-Generator <input type="checkbox"/> Other (Specify in Comments) If "Other" selected, explain here.	<input type="checkbox"/> No ORPS <input type="checkbox"/> CERCLIS/NFRAP <input type="checkbox"/> I/E Control <input type="checkbox"/> UST/LUST <input type="checkbox"/> NPL <input type="checkbox"/> Ohio VAP <input type="checkbox"/> SPILLS <input checked="" type="checkbox"/> SWF <input type="checkbox"/> Town Gas <input type="checkbox"/> DERR Database <input type="checkbox"/> Other (Specify in Comments) If "Other" selected, explain here.	Downgradient	DEC notification not applicable.  Property is down gradient from project area and has been closed since 1988 with continuing remediation efforts.  This landfill is 469.4 feet to the northwest of the project limits. Please see attached Landfill Specific ORPS Map.

Use  button (bottom-right corner of table) to add rows for each property as needed.



# Appendix A

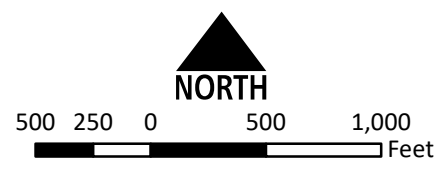
## Exhibits



**CUY-IR77-10.08/11.11**  
**(PID 21788)**  
**RMR Property Map**  
**Cuyahoga Heights, Ohio**

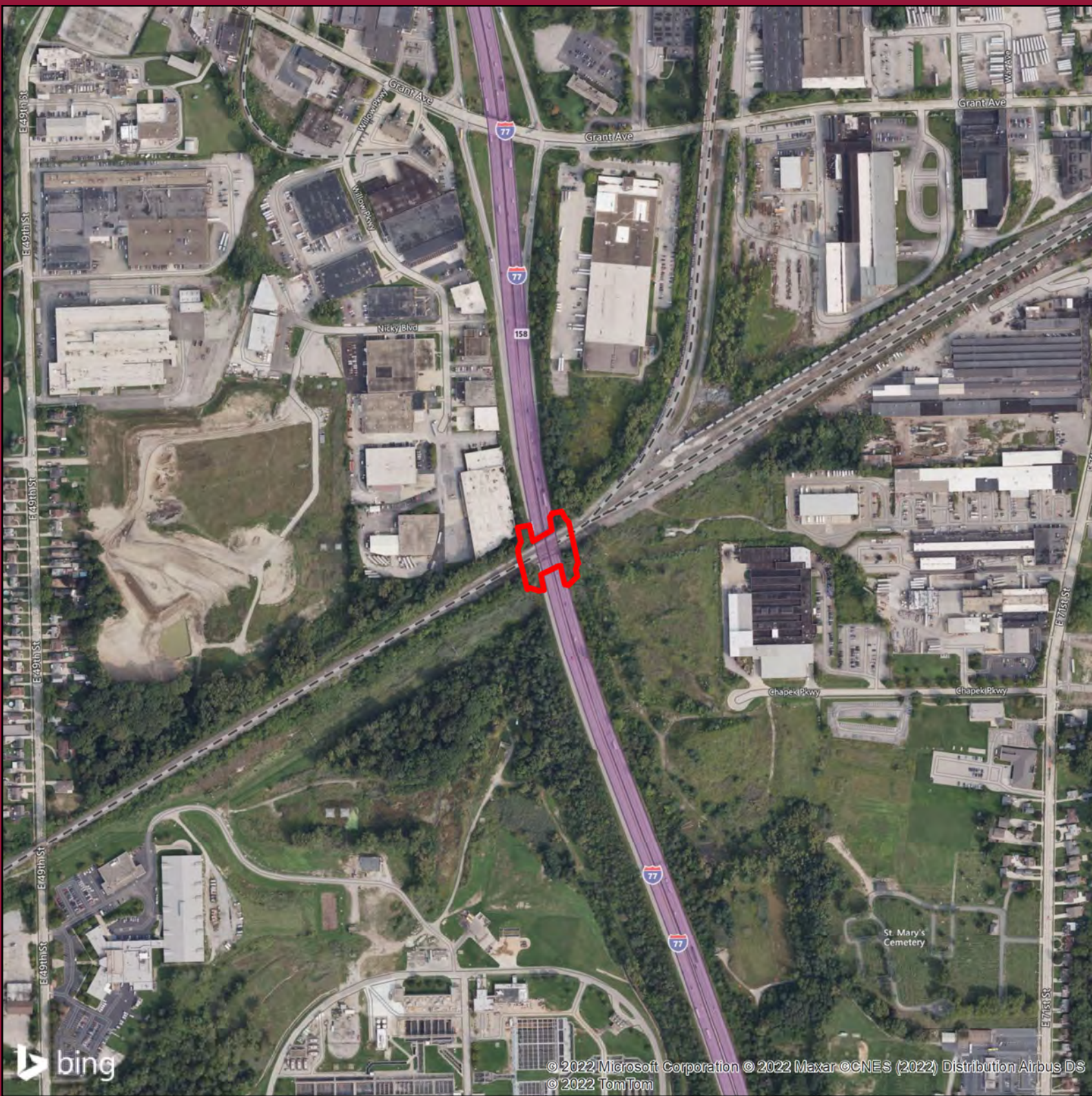
**LEGEND:**

-  Project Area
-  RMR Property Boundary



**INDUSTRIAL VALLEY-STEEL MILLS**





CUY-IR77-10.08/11.11  
(PID 21788)  
**Aerial**  
Cuyahoga Heights, Ohio

**LEGEND:**

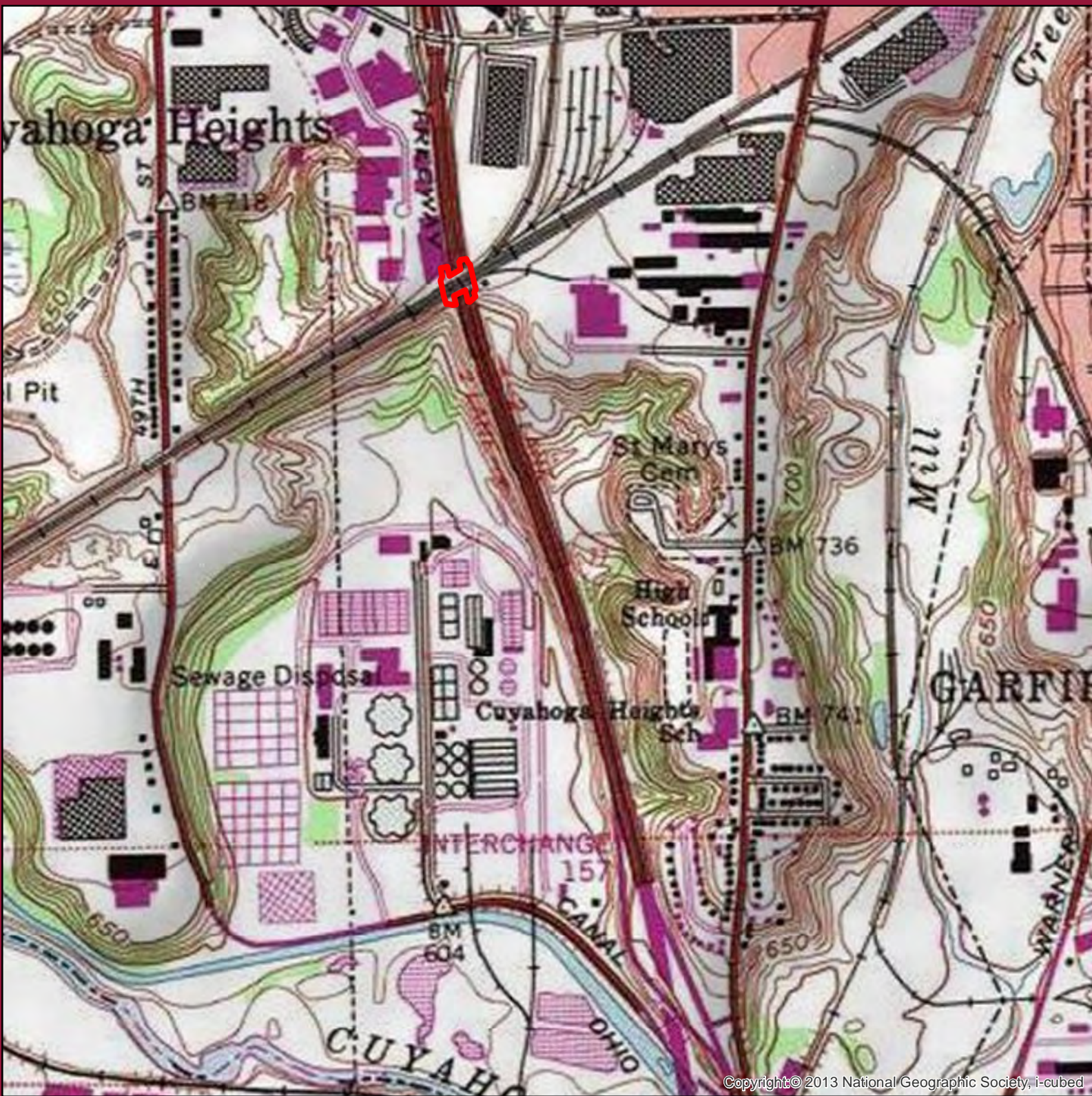
 Project Area



300 150 0 300 600  
Feet



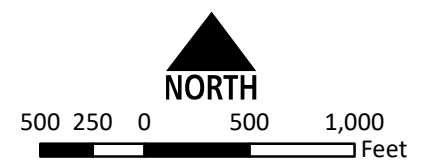




CUY-IR77-10.08/11.11  
 (PID 21788)  
**USGS 7.5 Minute  
 Topographic Map**  
 Cleveland South, Ohio  
 Quadrangle

**LEGEND:**

 Project Area



# Appendix B

## Historic Aerial Photographs



















# Appendix C

## Site Reconnaissance Photographs



Photo 1:  
View of existing CSX bridge  
over IR-77, facing east.



Photo 2:  
View of Interstate 77 from the  
CSX bridge, facing south.


CUY-IR77-10.08/11.11 PID 21788 Cleveland Heights, Cuyahoga County, Ohio		PHOTO DOCUMENTATION
 EXPERIENCE   Transportation	Photographer: J. Deeds	Date of Photograph: July 11 <sup>th</sup> , 2022



Photo 3:  
Suitable wooded habitat on both sides of CSX rail road, facing west.



Photo 4:  
Right of way along CSX bridge, facing east.


<p>CUY-IR77-10.08/11.11 PID 21788 Cleveland Heights, Cuyahoga County, Ohio</p>		<p>PHOTO DOCUMENTATION</p>
	<p>Photographer: J. Deeds</p>	<p>Date of Photograph: July 11<sup>th</sup>, 2022</p>



Photo 5:  
Existing CSX bridge over IR-77, facing north.



Photo 6:  
View of IR-77 from CSX bridge, facing north.


<p>CUY-IR77-10.08/11.11 PID 21788 Cleveland Heights, Cuyahoga County, Ohio</p>		<p>PHOTO DOCUMENTATION</p>
	<p>Photographer: J. Deeds</p>	<p>Date of Photograph: July 11<sup>th</sup>, 2022</p>




Photo 7:

CSX bridge over IR-77, view from IR-77, facing south.



Photo 8:

View of IR-77 from roadway right of way, facing north.

<p>CUY-IR77-10.08/11.11 PID 21788 Cleveland Heights, Cuyahoga County, Ohio</p>		<p>PHOTO DOCUMENTATION</p>
	<p>Photographer: J. Deeds</p>	<p>Date of Photograph: July 11<sup>th</sup>, 2022</p>

**Appendix D**  
**Regulatory File Review Forms**  
**&**  
**BUSTR Files**




## RMR REGULATORY FILE REVIEW FORM

<b>RM Number, Tenant/Address:</b>	RM-006: Cleveland Regional Sewer District/ 6000 Canal Street
<b>Report Author(s):</b>	Jessica Deeds
<b>Affiliation:</b>	TranSystems
<b>Certification (Must be acknowledged by Prequalified Individual)</b>	

I certify that I have personally examined and am familiar with the information in this document and all attachments, and that the data collection was supervised by an individual(s) prequalified to conduct the RMR for ODOT or by trained ODOT Environmental staff. Based on my inquiry of those persons immediately responsible for obtaining the information contained herein, I believe that the information has been collected in accordance with the ODOT RMR Manual current at the time of this submittal, and is true, accurate, and complete.



<b>Name:</b>	Brian Metz	<b>Signature:</b>	
<b>Title:</b>	Senior Environmental Scientist	<b>Date:</b>	December 19, 2022
<b>Email:</b>	bsmetz@transystems.com	<b>Phone:</b>	614-433-7800

### SECTION 1 - BUSTR

BUSTR 1:	Is this a BUSTR site? *	YES
*If answer to BUSTR 1 is NO, skip to Section 2.		
BUSTR 2:	Release investigation in progress on Property?	NO
BUSTR 3:	Does Property have NFA(s)?	NO
BUSTR 4:	Does Property have soils above BUSTR Re-use?	NO
BUSTR 5:	Is Property in BUSTR Enforcement?	NO
BUSTR 6:	Ohio Attorney General's Office involved on Property?	NO

Summary: On February 22, 2006 BUSTR staff witnessed the removal of a 500-gallon waste oil tank on the site. BUSTR recommended no additional environmental work was required due to the tank being installed in a concrete vault. BUSTR files reviewed for this Property show that no soil sampling or analysis was conducted.

### SECTION 2 - OEPA

OEPA 1:	Is this an OEPA site? *	YES
*If answer to OEPA 1 is NO, skip to Section 3.		
OEPA 2:	Does Property have OEPA records?	NO
OEPA 3:	Is Property undergoing OEPA directed actions?	NO
OEPA 4:	Does Property have soils above VAP Residential levels?	NO

OEPA 5:	Does Property have soils above VAP Commercial/Industrial levels?	NO
OEPA 6:	Does Property have NFA or Covenant Not to Sue?	NO
OEPA 7:	Does Property have deed restrictions?	NO
OEPA 8:	Is OEPA Office of Legal Services involved on Property?	NO
OEPA 9:	Is Ohio Attorney General's office involved on Property?	NO
Summary: The Property is listed as a DERR site for impoundment ponds on the Property. A search was conducted via ORPS and the Ohio EPA Documents database and no files were found for the Property.		

### SECTION 3 - USEPA

USEPA 1:	Is this a USEPA site?	NO
*If answer to USEPA 1 is NO, skip remaining questions.		
USEPA 2:	Does Property have USEPA records?	Choose response.
USEPA 3:	Is Property undergoing USEPA directed actions?	Choose response.
USEPA 4:	Does Property have NFRAP?	Choose response.
USEPA 5:	Does Property have deed restrictions and/or contamination left in place?	Choose response.
USEPA 6:	Is US Department of Justice involved on Property?	Choose response.
Summary:		



# NOZZLE NEW INC.

34412 PETTIBONE ROAD  
SOLON, OHIO 44139  
TELEPHONE (440)248-5552  
FAX (440)248-2028

September 24, 2006

RCD 9/28/06  
CFB

Ohio Department of Commerce  
Division of State Fire Marshal  
8895 E. Main Street  
P.O. Box 687  
Reynoldsburg, OH 43068

Dear Mr. Zepp,

Reference: North East Ohio Regional Sewer

Per your letter dated August 09, 2006.

Tank vault was constructed of concrete with rebar (pictures enclosed)  
Concrete vault walls are one foot thick  
Vault size was approximately 12ft x 7ft x 7ft deep  
One man-way was present from grade, later was mounted to concrete vault wall for access  
No material surrounded tank  
Vent line entered valve from directly above  
Drain line entered threw concrete valve wall from inside of building.  
Piping for drain line was flushed and grouted (witnessed by inspector)

Please call if you have any questions. (216) 702-0299

Thank you,



Philip Marek



## Ohio Department of Commerce

Division of State Fire Marshal  
Bureau of Underground Storage Tank Regulations  
8895 E Main St. • P.O. Box 687  
Reynoldsburg, OH 43068-9009  
(614) 752-7938 FAX (614) 752-7942  
[www.com.state.oh.us](http://www.com.state.oh.us)

Bob Taft  
Governor

Doug White  
Director

August 09, 2006

ALISON SCHREIBER  
NORTHEAST OHIO REGIONAL SEWER  
3900 EUCLID AVE  
CLEVELAND, OH 44115

SITE: NORTHEAST OHIO  
REGIONAL SEWER  
4747 EAST 49TH ST  
CUYAHOGA HEIGHTS OH  
CUYAHOGA COUNTY  
RELEASE #18011104-N00001

RE: UNDERGROUND STORAGE TANK CLOSURE

Dear Ms. Schreiber:

The Bureau of Underground Storage Tank Regulations (BUSTR) received a field inspection report on April 3, 2006 concerning the removal of a 500 gallon waste oil underground storage (UST) tank. The field inspection report indicated that UST was installed in a concrete vault and that no environmental work was required. In order to determine if this UST was not regulated, it will be necessary to submit the following information:

1. A description of the size and construction of the concrete vault. This must include information concern the presence of manways, a description of material surrounding the UST and description of any drains or piping entrances into the vault.

Please submit this information to BUSTR on or before September 30, 2006

Thank you for your cooperation. If you have any questions, please contact me at (614) 614-752-7093.

Sincerely,

A handwritten signature in black ink, appearing to read "Charles E. Zapp".

Charles E. Zapp  
Environmental Specialist

xc: Site File

COPY  
Cez 8/9/06



# Release 18011104-N00001

Facility-18011104

Release Report Page-1 | Release Report Page-2 | Site Listing Update

- Release N00001
- Closure
- PCS
- Site Updates
- CA Enforcement
- Letters
- CA Contacts

PERSON REPORTING THE RELEASE	RELEASE LOCATION
------------------------------	------------------

Name: \_\_\_\_\_

Company: **Northeast Ohio Regional Sewer**

Address: **3900 Euclid Ave**

City: **Cleveland** OH

Zip: **44115**

Phone: \_\_\_\_\_

Remarks: \_\_\_\_\_

Name: **NORTHEAST OHIO REGIONAL SE**

Former: \_\_\_\_\_

Address: **4747 EAST 49TH ST**

City: **CUYAHOGA HEIGHTS** OH

Zip: **44125-1011** County: **Cuyahoga**

Phone: \_\_\_\_\_

Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

Owner: **NORTHEAST OHIO REGIONAL SEWER**

RELEASE INFORMATION	CONDITIONS
---------------------	------------

Date Reported: **4/3/2006**

Coordinator: **Zepp**

OwnerID: **W004961 - NORTHEAST O**

Rules: **5015** Priority: **2**

Class: **D** RCCCAE: **No**

Status: **RPT: a possible incident is repor**

Date of Last Status Change: **04/07/2006**

LTF: **6 Closure of regulated UST**

Date of Last Review: **4/7/2006**

Source:  **Closure**

Impacts in area

Inventory control

Content:  Kerosene

**Used Oil-Petrolaum**

Aviation Gas

Empty - Hazardous

Comments: **1-500 gallon waste oil ust removed on 3/21/06. UST was installed in concrete vault.**



# Release 18011104-N00001

Facility-18011104

Release Report Page-1 | **Release Report Page-2** | Site Listing Update

- Release
  - N00001
- Closure
- PCS
- Site Updates
- CA Enforcement
- Letters
- CA Contacts

## SITE INFORMATION

Site/Area Type: Residential | GW Flow: unk | GW Depth: unk

Sensitive Area: No | Wellhead Protection: No | Bedrock Depth: unk

Cleanup Technologies:
 

- Air Sparging (AS)
- Air Sparging/Soil Vapor Extraction (AS/SVE)
- Alternative Method (OTHER)

## CONTAMINATION

Soil Contamination: No

Soil Category: Sand/gravel soil

Soil Classification: SM

Ground Water Contamination: No

Type of GW: Drinking Water

Alt DW Supplied: No

	Current	Total
Gal FPR		

	Current	Total
Gal GW		

Contaminant	Above Action Level
Benzene	Benzene
Toluene	Toluene
Ethyl-benzene	Ethyl-benzene
Total Xylenes	Total Xylenes

Contaminant	Above Action Level
Benzene	Benzene
Toluene	Toluene
Ethyl-benzene	Ethyl-benzene
Total Xylenes	Total Xylenes

Soil	Water	Free Product	Drinking H2O	Impacts
Trace	Trace	Undetermined	Potential	7 Water Way 5 Other Potential
Rating:			14	



### Removal Inspection Field Report

(For Removal, Closure in Place, Out of Service, and Changes in Service Activity)

Inspection: Preliminary <input type="checkbox"/> Final <input checked="" type="checkbox"/> Permit Date <u>2-22-06</u>		Facility # <u>13011104</u>		Permit # <u>P00001</u>	
<b>Ownership of Tanks:</b>  Northeast Ohio Regional Sewer 3900 Euclid Ave Cleveland, Ohio 44115		<b>Location of Tanks:</b>  Northeast Ohio Regional Sewer 4747 W. 49th St Cuyahoga Hts, Ohio 44125-1011			
		Sensitive Area: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Tank/System Information.....	Tank # <u>1</u> Cavity# <u>1</u>	Tank # ___ Cavity# ___	Tank # ___ Cavity# ___	Tank # ___ Cavity# ___	Tank # ___ Cavity# ___
Components Undergoing Work: T=Tank, P=Piping, S=System, C=Containment, A=Ancillary .....	T P <u>S</u> C A	T P S C A	T P S C A	T P S C A	T P S C A
Inspection Description.....	Removal				
Date Last Used.....	3/05				
Underground Tank Capacity (list gallons).....	500				
Substance Stored.....	W/Oil				
Tank Construction.....	Steel				
Piping Construction.....	Steel				
Pressure, Suction or Gravity Piping.....	Gravity				
LEL/O2 (indicate %)	0%				
Tank Cleaned on Site.....	<input checked="" type="radio"/> Yes or No	Yes or No	Yes or No	Yes or No	Yes or No
Holes in Tank.....	Yes or <input checked="" type="radio"/> No	Yes or No	Yes or No	Yes or No	Yes or No
Holes in Piping.....	Yes or <input checked="" type="radio"/> No	Yes or No	Yes or No	Yes or No	Yes or No
Cavity Appearance*.....	-----				
Piping Run Appearance*.....	-----				
Beneath Dispenser Appearance*.....	-----				
Closure in Place (written approval obtained) .....	Yes or No	Yes or No	Yes or No	Yes or No	Yes or No
Out of Service (more than 90 days)(system secured)	Yes or No	Yes or No	Yes or No	Yes or No	Yes or No
Change in Service (regulated to non-regulated) .....	Yes or No	Yes or No	Yes or No	Yes or No	Yes or No

**RECEIVED**  
 APR 03 2006  
 TESTING & REG  
 STATE FIRE MARSHAL

**Remarks:** Witnessed removal of said tank, tank removed by Nozzle New Inc. 440-248-5552. No environmental work required, tank installed in a concrete vault.

\*Indicate O = Odor, W = Water, ST = Staining, FP = Free Product, SH = Sheen

Certified Installer Number: <u>63-18-0052</u> Certified Installer Name (printed): <u>Philip Marek</u> Certified Installer Signature: <u>[Signature]</u> Date: <u>3/21/06</u>	Certified Inspector Number: <u>64-77-0013</u> Certified Inspector Name (printed): <u>Terry Chambers</u> Certified Inspector Signature: <u>[Signature]</u> Date: <u>3-21-06</u> Hours on Site: _____
---	--


*Recd 11/17*

## RMR REGULATORY FILE REVIEW FORM

<b>RM Number, Tenant/Address:</b>	RM-007: 5800 Grant Avenue; Joshen Paper & Packaging Retail Store
<b>Report Author(s):</b>	Jessica Deeds
<b>Affiliation:</b>	TranSystems
<b>Certification (Must be acknowledged by Prequalified Individual)</b>	

I certify that I have personally examined and am familiar with the information in this document and all attachments, and that the data collection was supervised by an individual(s) prequalified to conduct the RMR for ODOT or by trained ODOT Environmental staff. Based on my inquiry of those persons immediately responsible for obtaining the information contained herein, I believe that the information has been collected in accordance with the ODOT RMR Manual current at the time of this submittal, and is true, accurate, and complete.



<b>Name:</b>	Brian Metz	<b>Signature:</b>	
<b>Title:</b>	Senior Environmental Scientist	<b>Date:</b>	December 19, 2022
<b>Email:</b>	bsmetz@transystems.com	<b>Phone:</b>	614-433-7800

### SECTION 1 - BUSTR

BUSTR 1:	Is this a BUSTR site? *	YES
*If answer to BUSTR 1 is NO, skip to Section 2.		
BUSTR 2:	Release investigation in progress on Property?	NO
BUSTR 3:	Does Property have NFA(s)?	YES
BUSTR 4:	Does Property have soils above BUSTR Re-use?	NO
BUSTR 5:	Is Property in BUSTR Enforcement?	NO
BUSTR 6:	Ohio Attorney General's Office involved on Property?	NO

Summary: Under Sysco Food Service of Cleveland ownership in 1995 an NFA was granted for the removal of three USTs in 1992. When removed, all three tanks appeared to be in good condition and did not display any noticeable signs of failure which would indicate a direct source for a release or leakage. Pea gravel backfill in the tank pit was contaminated and approximately 100 cubic yards were removed and disposed of at an appropriate facility.

### SECTION 2 - OEPA

OEPA 1:	Is this an OEPA site? *	NO
*If answer to OEPA 1 is NO, skip to Section 3.		
OEPA 2:	Does Property have OEPA records?	Choose response.
OEPA 3:	Is Property undergoing OEPA directed actions?	Choose response.
OEPA 4:	Does Property have soils above VAP Residential levels?	Choose response.



OEPA 5:	Does Property have soils above VAP Commercial/Industrial levels?	Choose response.
OEPA 6:	Does Property have NFA or Covenant Not to Sue?	Choose response.
OEPA 7:	Does Property have deed restrictions?	Choose response.
OEPA 8:	Is OEPA Office of Legal Services involved on Property?	Choose response.
OEPA 9:	Is Ohio Attorney General's office involved on Property?	Choose response.
Summary:		

### SECTION 3 - USEPA

USEPA 1:	Is this a USEPA site?	NO
*If answer to USEPA 1 is NO, skip remaining questions.		
USEPA 2:	Does Property have USEPA records?	Choose response.
USEPA 3:	Is Property undergoing USEPA directed actions?	Choose response.
USEPA 4:	Does Property have NFRAP?	Choose response.
USEPA 5:	Does Property have deed restrictions and/or contamination left in place?	Choose response.
USEPA 6:	Is US Department of Justice involved on Property?	Choose response.
Summary:		



1821939



# Ohio Department of Commerce

An Equal Opportunity Employer & Service Provider

George V. Voinovich, Governor

Division of State Fire Marshal • Bureau of Underground Storage Tank Regulations  
8895 East Main Street, P.O. Box 687 • Reynoldsburg, OH 43068-0687  
(614) 752-7938 • FAX (614) 752-7942

Donna Owens, Director

OCT 03 1995

JIM BELT  
SYSCO FOOD SERVICE OF CLEVELAND  
22801 AURORA RD  
BEDFORD HTS OH 44146

SITE: SYSCO FOOD SERVICE  
OF CLEVELAND  
5800 GRANT AVE  
CUYAHOGA HTS OH  
CUYAHOGA COUNTY  
INCIDENT #1821939

RE: NO FURTHER ACTION STATUS

Dear Mr Belt:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed all information submitted for this site. Based on this information, BUSTR requires no further action involving corrective actions for remediation under the regulatory framework.

If you feel that you are entitled to reimbursement you should contact the Petroleum Underground Storage Tank Release Compensation Board (PUSTRCB) at P.O. Box 163188, Columbus, Ohio 43216, (614) 752-8963 or (800) 224-4659. PUSTRCB administers Ohio's assurance fund and is a separate entity apart from BUSTR.

Thank you for your cooperation. If you have any questions, please contact Dennis Tatum at (614) 728-5470.

Sincerely,

Diane B. McClure  
Acting Corrective Actions Supervisor

DBM:DT:dep

xc: Site File  
Ken Nichols, Cuyahoga Hts Fire Dept.  
John McLeod, Cuyahoga Co Health Dist.

CONCURRENCES							Mailed
						OCT 03 1995	
	NBY						
	10-2-95						PHC

OS&S File Copy

# CLOSURE ASSESSMENT REVIEW

(FOR USE WITH USTs REMOVED AFTER 12/31/91)

OWNERSHIP OF TANKS	LOCATION OF TANKS
<u>Jim Belt</u> <u>Sysco Food Services of Cleveland</u> <u>22801 Aurora Road</u> <u>Bedford Heights, Ohio 44146</u>	<u>Sysco Food Services Cleveland</u> <u>5800 Grant Avenue</u> <u>Cuyahoga Heights, Ohio</u> <u>Cuyahoga</u> COUNTY INCIDENT # <u>1821939</u>

Report Received Date: 06 November, 1992

**UST SYSTEM INFORMATION**

Removal/Abandonment Date: <u>21 July</u> , 19 <u>93</u>					STATUS		
TANK NO.	AGE	CAPACITY	MATERIAL	PRODUCT	TANK	PIPE	DISP
1	UNK	10,000	Steel	Diesel Fuel	R	R	R
2	UNK	10,000	Steel	Diesel Fuel	R	R	(
3	UNK	500	Steel	Lube Oil	R	R	NONE
4							
5							
6							

Laboratory analytical results (highest results)

Benzene <2 ug/kg  
 Toluene <2 ug/kg  
 E-benzene <2 ug/kg  
 Xylene 4 ug/kg  
 TPH 42 mg/kg

SFSS Category 1 2 3 4 (CIRCLE ONE)

Overexcavation: Yes / NO BUSTR Approval: Yes / No

Other analytes or comments: No SFSS was in Rpt: But equal site

Site Management Remarks: \_\_\_\_\_

STATUS: NFA ✓ ICR Priority 2 Classification D LTF 1 @ Site Coordinator Tobias

Reviewed By: James Tatum 27 Sept 1995 Date: \_\_\_\_\_

Approved By: Thomas B. McClure Date: 10/2/95

Entry By: S. Unger Date: OCT 03 1995  
 Effective Date June 22, 1994

8188-2495

REPORT INFORMATION

ACTIVITY	REPORTED INFORMATION		DATE RESOLVED
	YES	DEFICIENT	
<b>FIELD</b>			
Field screening methods/numbers	✓		
Field screening readings	✓		
<b>SAMPLING</b>			
Container/equipment/preservation	✓		
Sampling methods/tools	✓		
Locations/numbers of samples	✓		
Samples split for screen/lab	✓		
Water evacuation/24 hour wait	✓		
<b>LABORATORY</b>			
Correct samples submitted	✓		
Chain of custody	✓		
Analyzed within holding time	✓		
Test methods/detection limits	✓		
Lab reports (date, analyst)	✓		
<b>REPORT</b>			
Owner, operator, facility information	✓		
Closure form complete (signed)	✓		
Wastewater and UST contents disposal	✓		
UST system disposal	✓		
Site map of facility and area	✓		

WASTE DISPOSAL INFORMATION

Laboratory analytical results (highest results)

Received 18 February 1993

Benzene     <5     ug/kg

Quantity     / 00     cubic yards/tons

Toluene     <5     ug/kg

Acceptable soil disposal     Yes     / No

E-benzene     <5     ug/kg

Used as backfill     \_\_\_\_\_    

Xylene     <5     ug/kg

Landfill or remediation     ✓    

TPH     130     mg/kg

Stockpiled on-site     \_\_\_\_\_    

Location: \_\_\_\_\_

Comments: \_\_\_\_\_

Deficiency letter(s) sent: 1. \_\_\_\_\_, 19\_\_\_\_ 2. \_\_\_\_\_, 19\_\_\_\_

80002496



1821939  
NECH

February 11, 1993

Mr. Jim Belt  
Building Maintenance Manager  
Sysco Food Services of Cleveland, Inc.  
22801 Aurora Road  
Bedford Heights, Ohio 44146

RECEIVED  
FEBRUARY 11 1993  
1821939

Re: Final Report  
Diesel Fuel Contaminated Soils Treatment  
Former Sysco Distribution Center  
Cuyahoga Heights, Ohio  
August Mack Project Number 92027.41

Dear Mr. Belt,

August Mack Environmental, Inc. (August Mack) was contracted by Sysco Food Services of Cleveland, Inc. (Sysco) to coordinate transportation and treatment activities for the diesel fuel contaminated material which was stockpiled at the above referenced facility. The contaminated material, comprised primarily of pea gravel, was generated during the closure of two underground storage tanks (USTs) previously used for diesel fuel storage. The scope of work for this project included: collecting a representative sample of the contaminated material for waste characterization analysis; coordinating the treatment activities, overseeing the loading and hauling of the affected material to the chosen treatment facility, and; preparing this report to document the activities performed during the transportation process.

#### Background Information

The contaminated material was encountered in August, 1992 during the removal of two USTs previously used to store diesel fuel which were located at the former Sysco distribution center at 5800 Grant Avenue in Cuyahoga Heights, Ohio. At the time of the tank removals, the property was occupied by Seaway/Riser Foods which had purchased the property from Sysco contingent on the closure of the USTs. The contaminated material was comprised mainly of pea gravel which was used as backfill material around the USTs. All affected material encountered during the removal activities was staged on plastic in the southern portion of the property. The stockpile was bermed on all sides using bails of straw and

8021 CASTLETON ROAD  
INDIANAPOLIS, INDIANA 46250  
TEL: (317) 579-7400  
FAX: (317) 579-7410

4353 TULLER ROAD, SUITE H  
DUBLIN, OHIO 43017  
TEL: (614) 798-9922  
FAX: (614) 798-9927

1821939-00

covered with plastic sheeting to inhibit runoff of the contaminants.

Based on Sysco's policy of not disposing of contaminated soils in a landfill and since the owner of the property would not allow on-site treatment of the contaminated material, it was decided that the material would be transported to Petro Environmental Technologies, Inc. (PetroTech), located in Washington Court House, Ohio, for treatment at their facility. PetroTech operates a recycling facility dedicated to treating petroleum contaminated soils (PCS). According to a representative of the facility, the PCS are treated with a proprietary combination of bioremediation, vapor extraction and soil flushing. The post treatment results are clean, non-regulated material as defined by the Ohio Environmental Protection Agency (OEPA) PCS policy. Most importantly, PetroTech ends the generators liability by presenting post-treatment analytical documentation that the PCS policy standards have been achieved.

#### Waste Characterization

In order to treat the soils at the PetroTech facility, waste characterization through laboratory analysis of the contaminated material was required. PetroTech required that the affected material be analyzed for total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene and xylene (BTEX), ignitability and total lead. A representative sample of the affected material was collected, placed on ice and delivered to American Analytical, Inc. located in Merrillville, Indiana. A complete laboratory report for the waste characterization analyses is included in Attachment A. Upon review of the waste characterization results, PetroTech agreed to accept and treat the contaminated material.

#### Contaminated Material Treatment

Once authorization was granted by Sysco, August Mack contracted Empaco Equipment Corporation to perform the loading and hauling of the material from the site to the PetroTech facility. An August Mack representative was on-site at all times to supervise, monitor, and document all of the activities performed during the transportation process. The transportation process commenced on December 14, 1992 using a rubber-tired front end loader to load the contaminated material onto dump trucks. The dump trucks which were used for transporting the affected material each had a load capacity of approximately 20 to 30 tons.

Prior to departure, August Mack supplied each truck with a PCS Manifest which was submitted by the truck driver to PetroTech upon arrival at their facility. The disposal process proceeded until December 18, 1992. Based on the PCS Manifests received from PetroTech, a total of 207.47 tons of material



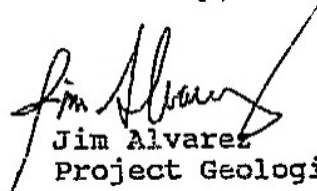
were transported to their facility for treatment. Copies of the manifests are included in Attachment B. Photographs that were taken during the disposal activities are included in Attachment C.

#### Conclusions

The treatment of the diesel fuel contaminated material has been initiated. The transportation activities for the affected material were completed during the week of December 14, 1992 under the direct supervision of August Mack. Based on the treatment facility receipts, 207.47 tons of affected material were loaded and transported to PetroTech to undergo treatment. According to a PetroTech representative, the affected material will undergo treatment for approximately six months to one year at which time a sample of the material will be collected for analysis. If the laboratory results show that the material is below the levels required by the OEPA for PCS, Sysco will receive analytical documentation that the OEPA levels have been achieved. If the results show that the necessary levels have not been achieved, additional treatment will continue until the levels are met.

We enjoyed working with you on this project. If you have any questions or comments regarding this project, please do not hesitate to contact us.

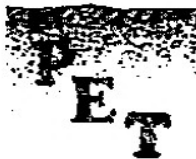
Sincerely,



Jim Alvarez  
Project Geologist

cc: John Gracia  
Sysco Corporation

ATTACHMENT A  
WASTE CHARACTERIZATION ANALYSES



Petro Environmental Technologies, Inc.

PETRO CELL  
APPLICATION TO ACCEPT PETROLEUM CONTAMINATED SOIL

Customer Name and Billing Address:  Agent  Generator

Name August Mack Environmental, Inc.

Address 4353 Tuller Road, Suite H

City, State, Zip Dublin, OH 43017

Phone (614) 798-9922 Contact Jim Alvarez

Generator and Site Address:

Name Sysco Food Services of Cleveland Approximate Quantity

Address 5800 Grant Avenue 100 cu. yds.

City, State, Zip Cuyahoga Heights, OH 44101

Phone (216) 587-0200 Contact Derrick Hersey

Contamination source, or process causing the contamination:

Underground Storage Tank  Above Ground Storage Tank

Leaking Piping  Product Spills

Other, please explain \_\_\_\_\_

Type of Contamination:

Motor Fuel  Fuel Oil  Heating Fuel

Other Petroleum Product: "Petroleum and petroleum based products comprised of a complex blend of hydrocarbons derived from crude oil" including jet fuels, lubricants and fuels listed above. Please attach Material Data Safety Sheet (MSDS), if possible.

Certification: I certify that the information set forth in this Application to Accept Petroleum Contaminated Soils is true and correct to the best of my knowledge and belief.

Signature *Jim Alvarez*

Name (print) Jim Alvarez Date 11/19/92



# American Analytical Inc.

7870 Broadway  
Merrillville, IN 46410  
Tele: 219-769-8378  
Fax: 219-769-1664

## METALS COMPOUNDS ANALYTICAL RESULTS


Client: August Mack Environmental, Inc.

Sample Identification: 2  
Sample Matrix: Soil  
Date Sampled: 07/24/92  
Date Received: 07/31/92  
Date Extracted: 08/04/92  
Date Analyzed: 08/07/92  
Analyst: MZ  
Project Identification: 92014.11  
Lab Number: 923674

ANALYTE	CONCENTRATION (mg/Kg)	METHOD SW-846	QUANTITATION LIMIT (mg/Kg)
Lead	9.48	7420	2.16

ND - Not Detected at Quantitation Limit

Respectfully Submitted,  
American Analytical, Inc.

  
Laboratory Director



# American Analytical Inc.

7870 Broadway  
Merrillville, IN 46410  
Tele: 219-769-8378  
Fax: 219-769-1664

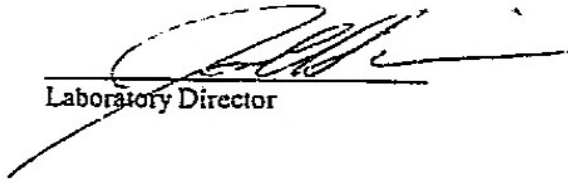
## ANALYTICAL RESULTS

Client: August Mack Environmental, Inc.  
Sample Identification: 2  
Sample Matrix: Soil  
Date Sampled: 07/24/92  
Date Received: 07/31/92  
Date Analyzed: 08/10/92  
Analyst: CB  
Project Identification: 92014.11  
Lab Number: 923674

ANALYTE	RESULT	SW-846 METHOD	QUANTITATION LIMIT
Flashpoint	>170 <sup>o</sup> F	1010	+2.0 <sup>o</sup> F

ND - Not Detected at Quantitation Limit

Respectfully Submitted,  
American Analytical, Inc.

  
Laboratory Director



# American Analytical Inc.

7870 Broadway  
Merrillville, IN 46410  
Tele: 219-769-8378  
Fax: 219-769-1664

## HYDROCARBON ANALYTICAL RESULTS

Client: August Mack Environmental, Inc.

Sample Matrix: Soil  
Date Sampled: 07/24/92  
Date Received: 07/31/92  
Date Analyzed: 08/03/92  
Analyst: TC  
Project Identification: 92014.11  
Lab Number(s): 923674

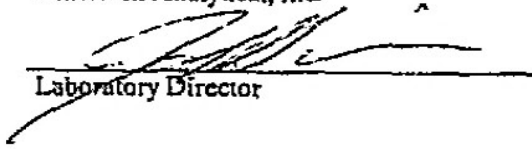
SAMPLE IDENTIFICATION	RESULT, ppm	QUANTITATION LIMIT, ppm
Pea Gravel Backfill	130	10
Soil Method Blank	ND	10

J - Analyte detected at levels below Quantitation Limit

ND - Not Detected at Quantitation Limits

Analyte Method: U.S. EPA 418.1

Respectfully Submitted,  
American Analytical, Inc.

  
Laboratory Director



# American Analytical Inc.

7870 Broadway  
Merrillville, IN 46410  
Tele: 219-769-8378  
Fax: 219-769-1664

## PURGEABLE AROMATICS - BTEX ANALYTICAL RESULTS

Client: August Mack Environmental, Inc.

Sample Identification: BIK080392  
Sample Matrix: Soil  
Date Sampled: N/A  
Date Received: N/A  
Date Analyzed: 08/03/92  
Analyst: TC  
Project Identification: 92014.11  
Lab Number: BIK080392


ANALYTE	CAS NUMBER	CONCENTRATION (ug/Kg)	QUANTITATION LIMIT (ug/Kg)
Benzene	71-43-2	ND	5
Toluene	108-88-3	ND	5
Ethylbenzene	100-41-4	ND	5
Total Xylenes	1330-20-7	ND	5

J - Analyte detected at levels below Quantitation Limit

ND - Not Detected at Quantitation

Analyte Method: SW-846 8260

Respectfully Submitted,  
American Analytical, Inc.

  
Laboratory Director



# American Analytical Inc.

7870 Broadway  
Merrillville, IN. 46410  
Tele: 219-769-8378  
Fax: 219-769-1664

## PURGEABLE AROMATICS - BTEX ANALYTICAL RESULTS

Client: August Mack Environmental, Inc.

Sample Identification: Pea Gravel Backfill  
Sample Matrix: Soil  
Date Sampled: 07/24/92  
Date Received: 07/31/92  
Date Analyzed: 08/03/92  
Analyst: TC  
Project Identification: 92014.11  
Lab Number: 923674


ANALYTE	CAS NUMBER	CONCENTRATION (ug/Kg)	QUANTITATION LIMIT (ug/Kg)
Benzene	71-43-2	ND	5
Toluene	108-88-3	ND	5
Ethylbenzene	100-41-4	ND	5
Total Xylenes	1330-20-7	ND	5

J - Analyte detected at levels below Quantitation Limit

ND - Not Detected at Quantitation

Analyte Method: SW-846 8260

Respectfully Submitted,  
American Analytical, Inc.

  
Laboratory Director



August 13, 2011  
 Fuller Road  
 Dublin OH 43017



0021 Castleton Rd.  
 Indianapolis, IN 46250  
 (317) 579-7400  
 FAX (317) 579-7410

# Chain of Custody

Project No.	Project Name	Vapor Tests			Test Parameters															
		TPH	BTEX	VOC	HM (8 RCRA)	THM	Ignitability	Ext	Method	Amplification										
7201411	Sireo / Cuyahoga Hqs.	TPV	TCV	Circle One & List Value																
Sample Location & Type (Soil, Water, Waste)		Sample Location & Type (Soil, Water, Waste)																		
2	Full	Via Harold Backfeller by 3/2/11																		

Sketch	Remarks	Received by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Regular Turnaround ASAP if possible	Please call when you receive. -Thomas Jim	Tom A. [Signature]	7/24/11	[Signature]	7/24/11
	(414) 798-4922	[Signature]	7/24/11	[Signature]	7/24/11

Retinquished By: (Signature)	Date	Time
[Signature]	7/31/11	10:30 A
Received for Laboratory by: (Signature)	Date	Time
[Signature]	7/31/11	10:30 A

LAD #  
 23614

ATTACHMENT B  
TRANSPORTATION MANIFESTS

00042588

**PETRO CELL PETROLEUM  
CONTAMINATED SOIL MANIFEST**

1. Generator's US EPA ID No. (if applicable)

2. Control Number

PC 92-332

3. Generator's Name and Site Address

SYSCO FOODS - CLEVELAND

4. Generator's Phone ( )

5. Transporter 1 Company Name

EMPACO EQUIP CORP

6. US EPA ID Number

A. Transporter's Phone

(216) 654-9393

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site address

PETRO CELL DIVISION OF  
PETRO ENV. TECHNOLOGIES, INC.  
1600 Robinson Road  
Washington Court House, OH 43160

10. US EPA ID Number

OHD 9806 10968

C. Facility's Phone

(614) 335-1508

D. Office Phone

(800) 955-7380

11. US DOT Description (Including Proper Shipping name, Hazard Class, and ID Number)

12  
Total Quantity

13  
Yards/Tons

HM

a. PETROLEUM CONTAMINATED SOIL

22.89 TON

b.

c.

d.

J. Additional Description for Materials Listed Above

K. Handling Codes for Wastes Listed Above

14. Special Handling Instructions and Additional Information

15. CERTIFICATION: I hereby declare that the contents of this consignment are not subject to federal regulation for reporting proper disposal of Hazardous Waste. The contents are Petroleum Contaminated Soils defined by the Ohio Environmental Protection Agency.

Printed/Typed Name  
J.D. GIBBS FOR SYSCO FOOD SERVICES/CLEV.

Signature

Month Day Year  
11-21-92

Transporter 1 Acknowledgment of Receipt of Materials

16. Printed/Typed Name  
DENVER L. HAYES

Signature  
Denver Hayes

Month Day Year  
11-21-92

Transporter 2 Acknowledgment of Receipt of Materials

17. Printed/Typed Name

Signature

Month Day Year  
. . . . .

18. Discrepancy Indication Space

SORTING: Yes No

19. Quadrant Received

20. Facility Owner or Operator: Certification of receipt of materials covered by this manifest except as noted in Item 18.

Printed/Type Name  
MURPHY

Signature  
Murphy

Month Day Year  
12-15-92

WEIGHED ON A FAIRBANKS SCALE

DATE \_\_\_\_\_

CUSTOMER'S NAME

*Petro Cell*

ADDRESS \_\_\_\_\_

COMMODITY \_\_\_\_\_

CARRIER

*84*

*Empire*

REMARKS

LBS. GROSS

12-15-92 7:55AM

80460

LBS. TARE—DRIVER UN \_\_\_\_\_ OFF \_\_\_\_\_

*34680*

LBS. NET @ \_\_\_\_\_ PER LB. PRICE \_\_\_\_\_

*45780*

SHIPPER \_\_\_\_\_

FAIRBANKS CAT. NO. 083905

WEIGHER \_\_\_\_\_

00002510

Pick

MANIFEST #

**PETRO CELL PETROLEUM CONTAMINATED SOIL MANIFEST**

1. Generator's US EPA ID No. (if applicable)

2. Control Number **PC92-332**

3. Generator's Name and Site Address  
**SYSCO FOODS - CLEVELAND**

4. Generator's Phone ( )

5. Transporter 1 Company Name **EMPACO EQUIP. CORP.**

6. US EPA ID Number

A. Transporter's Phone **(216) 659-4393**

7. Transporter 2 Company Name

B. Transporter's Phone

9. Designated Facility Name and Site address  
**PETRO CELL DIVISION OF PETRO ENV. TECHNOLOGIES, INC. 1600 Robinson Road Washington Court House, OH 43160**

10. US EPA ID Number **OHD 9806 10958**

C. Facility's Phone **(614) 335-1508**

D. Office Phone **(800) 955-7380**

11. US DOT Description (Including Proper Shipping name, Hazard Class, and ID Number)

HM	12 Total Quantity	13 Yards/Tons
a. <b>PETROLEUM CONTAMINATED SOIL</b>		<b>22.6 TON</b>
b.		
c.		
d.		

J. Additional Description for Materials Listed Above

K. Handling Codes for Wastes Listed Above

14. Special Handling Instructions and Additional Information

15. CERTIFICATION: I hereby declare that the contents of this consignment are not subject to federal regulation for reporting proper disposal of Hazardous Waste. The contents are Petroleum Contaminated Soils defined by the Ohio Environmental Protection Agency.

**J.D. GIBBS FO**

Printed/Typed Name **FOR SYSCO FOOD SERVICES / CLEVELAND** Signature *[Signature]* Month Day Year **12/14/92**

Transporter 1 Acknowledgment of Receipt of Materials

16. Printed/Typed Name **RICHARD E. TRIVKA** Signature *[Signature]* Month Day Year **12/14/92**

Transporter 2 Acknowledgment of Receipt of Materials

17. Printed/Typed Name Signature Month Day Year

18. Discrepancy Indication Space **SORTING: Yes No**

19. Quadrant Received

20. Facility Owner or Operator: Certification of receipt of materials covered by this manifest except as noted in Item 18.

Printed/Type Name **Murphy** Signature *[Signature]* Month Day Year **12/15/92**

ORIGINAL - RETURN TO GENERATOR

80002514

WEIGHED ON A FAIRBANKS SCALE

CUSTOMER'S NAME Retro Cell

ADDRESS \_\_\_\_\_

COMMODITY \_\_\_\_\_

CARRIER Empaco 15

REMARKS \_\_\_\_\_  
\_\_\_\_\_

12-15-92 11:53PM 79260

12-15-92 2:22PM 34060

45200

LBS. GROSS \_\_\_\_\_

LBS. TARE—DRIVER ON \_\_\_\_\_ OFF \_\_\_\_\_

LBS. NET @ \_\_\_\_\_ PER LB. PRICE \_\_\_\_\_

SHIPPER \_\_\_\_\_

WEIGHER \_\_\_\_\_

FAIRBANKS CAT. NO. 083905

000025 12

**PETRO CELL PETROLEUM  
CONTAMINATED SOIL MANIFEST**

1. Generator's US EPA ID No. (if applicable)

2. Control Number

PC92-332

3. Generator's Name and Site Address

SYSCO FOODS - CLEVELAND

4. Generator's Phone ( )

5. Transporter 1 Company Name

EMPHACO EQUIP CORP.

6. US EPA ID Number

8. US EPA ID Number

A. Transporter's Phone

(216) 659-9393

B. Transporter's Phone

9. Designated Facility Name and Site address

PETRO CELL DIVISION OF  
PETRO ENV. TECHNOLOGIES, INC.  
1600 Robinson Road  
Washington Court House, OH 43160

10. US EPA ID Number

OHD 9806 10968

C. Facility's Phone

(614) 335-1508

D. Office Phone

(800) 955-7380

11. US DOT Description (Including Proper Shipping name, Hazard Class, and ID Number)

12

Total Quantity

13

Yards/Tons

HM

PETROLEUM CONTAMINATED SOIL

23.36 TON

a.  
b.  
c.  
d.

J. Additional Description for Materials Listed Above

K. Handling Codes for Wastes Listed Above

14. Special Handling Instructions and Additional Information

15. CERTIFICATION: I hereby declare that the contents of this consignment are not subject to federal regulation for reporting proper disposal of Hazardous Waste. The contents are Petroleum Contaminated Soils defined by the Ohio Environmental Protection Agency.

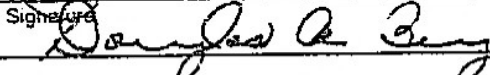
Printed/Typed Name FOR SYSCO FOOD SERVICES / CLEV  
J.D. GIBBS

Signature 

Month Day Year  
12/1/92

Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name  
DOUGLAS A BEER

Signature 

Month Day Year  
12/1/92

Transporter 2 Acknowledgment of Receipt of Materials

17. Printed/Typed Name

Signature

Month Day Year  
. . .

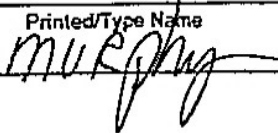
18. Discrepancy indication Space

SORTING: Yes No

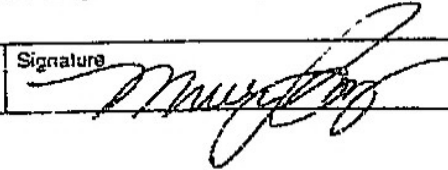
19. Quadrant Received

20. Facility Owner or Operator: Certification of receipt of materials covered by this manifest except as noted in item 18.

Printed/Type Name



Signature



Month Day Year  
12/1/92

WEIGHED ON A FAIRBANKS SCALE

DATE \_\_\_\_\_

CUSTOMER'S NAME \_\_\_\_\_

*Peter Cell*

ADDRESS \_\_\_\_\_

COMMODITY \_\_\_\_\_

CARRIER \_\_\_\_\_

*Empaco Empaco #16*

REMARKS \_\_\_\_\_

12-15-92

7:15AM

80260

LBS. GROSS

*33590*

LBS. TARE—DRIVER ON \_\_\_\_\_ OFF \_\_\_\_\_

*46720*

LBS. NET @ \_\_\_\_\_ PER LB. PRICE \_\_\_\_\_

SHIPPER \_\_\_\_\_

FAIRBANKS CAT. NO. 083905

WEIGHER \_\_\_\_\_



<b>PETRO CELL PETROLEUM CONTAMINATED SOIL MANIFEST</b>		1. Generator's US EPA ID No. (if applicable)	2. Control Number <b>PC92-332</b>
3. Generator's Name and Site Address <b>SYSCO FOODS - CLEVELAND</b>			
4. Generator's Phone ( )			
5. Transporter 1 Company Name <b>EMERALD EQUIP. CORP.</b>		6. US EPA ID Number	A. Transporter's Phone <b>(216) 659-9393</b>
7. Transporter 2 Company Name		8. US EPA ID Number	B. Transporter's Phone
9. Designated Facility Name and Site address <b>PETRO CELL DIVISION OF PETRO ENV. TECHNOLOGIES, INC. 1600 Robinson Road Washington Court House, OH 43160</b>		10. US EPA ID Number <b>OHD 9806 10968</b>	C. Facility's Phone <b>(614) 335-1508</b>
			D. Office Phone <b>(800) 955-7380</b>
11. US DOT Description (Including Proper Shipping name, Hazard Class, and ID Number) <b>HM</b>		12 Total Quantity	13 Yards/Tons
a	<b>PETROLEUM CONTAMINATED SOIL</b>		<b>24.97 TON</b>
b			
c			
d			
J. Additional Description for Materials Listed Above		K. Handling Codes for Wastes Listed Above	
14. Special Handling Instructions and Additional Information			
15. CERTIFICATION: I hereby declare that the contents of this consignment are not subject to federal regulation for reporting proper disposal of Hazardous Waste. The contents are Petroleum Contaminated Soils defined by the Ohio Environmental Protection Agency.			
Printed/Typed Name <b>JOE GIBBS SERVICES / CLEV.</b>		Signature 	Month Day Year <b>11-21-92</b>
Transporter 1 Acknowledgment of Receipt of Materials			
Printed/Typed Name <b>Douglas A. BENG</b>		Signature 	Month Day Year <b>11-21-92</b>
Transporter 2 Acknowledgment of Receipt of Materials			
17. Printed/Typed Name		Signature	Month Day Year
18. Discrepancy Indication Space <b>SORTING: Yes No</b>		19. Quadrant Received	
20. Facility Owner or Operator: Certification of receipt of materials covered by this manifest except as noted in Item 18.			
Printed/Type Name <b>MURPHY</b>		Signature 	Month Day Year <b>12-16-92</b>

WEIGHED ON A FAIRBANKS SCALE

DATE \_\_\_\_\_

CUSTOMER'S NAME

*Petro-Cell*

ADDRESS \_\_\_\_\_

COMMODITY \_\_\_\_\_

CARRIER

*Empaco*

*6*

REMARKS \_\_\_\_\_

12-16-92

9:34AM

83480

LBS. GROSS

*33540*

LBS. TARE—DRIVER ON \_\_\_\_\_ OFF \_\_\_\_\_

*49940*

LBS. NET @ \_\_\_\_\_ PER LB. PRICE \_\_\_\_\_

SHIPPER \_\_\_\_\_

WEIGHER \_\_\_\_\_

FAIRBANKS CAT. NO. 083905

00002516

**PETRO CELL PETROLEUM  
CONTAMINATED SOIL MANIFEST**

1. Generator's US EPA ID No. (if applicable)

2. Control Number

PC 92-332

3. Generator's Name and Site Address

SYSCO FOODS - CLEVELAND

4. Generator's Phone ( )

5. Transporter 1 Company Name

EMPAKO EQUIP. CORP.

6. US EPA IC Number

A. Transporter's Phone

(216) 659-9393

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site address  
PETRO CELL DIVISION OF  
PETRO ENV. TECHNOLOGIES, INC.  
1600 Robinson Road  
Washington Court House, OH 43160

10. US EPA ID Number  
OHD 9806 10968

C. Facility's Phone

(614) 335-1508

D. Office Phone

(800) 955-7380

11. US DOT Description (Including Proper Shipping name, Hazard Class, and ID Number)

12  
Total Quantity

13  
Yards/Tons

HM

a. PETROLEUM CONTAMINATED SOIL

30.3 TON

b.

c.

d.

J. Additional Description for Materials Listed Above

K. Handling Codes for Wastes Listed Above

14. Special Handling Instructions and Additional Information

15. CERTIFICATION: I hereby declare that the contents of this consignment are not subject to federal regulation for reporting proper disposal of Hazardous Waste. The contents are Petroleum Contaminated Soils defined by the Ohio Environmental Protection Agency.

Printed/Typed Name

FOR SYSCO FOOD SERVICES / CLEV.

Signature

Month Day Year

11/21/92

Transporter 1 Acknowledgment of Receipt of Materials

16. Printed/Typed Name

DENVER L. HAYES

Signature

Denver L. Hayes

Month Day Year

Transporter 2 Acknowledgment of Receipt of Materials

17. Printed/Typed Name

Signature

Month Day Year

18. Discrepancy Indication Space

SORTING: Yes No

19. Quadrant Received

20. Facility Owner or Operator: Certification of receipt of materials covered by this manifest except as noted in item 18.

Printed/Type Name

MURPHY

Signature

Murphy

Month Day Year

12/16/92

WEIGHED ON A FAIRBANKS SCALE

DATE \_\_\_\_\_

CUSTOMER'S NAME \_\_\_\_\_

*Petro Cell*

ADDRESS \_\_\_\_\_

COMMODITY \_\_\_\_\_

CARRIER \_\_\_\_\_

*Empaco Eg #24*

REMARKS \_\_\_\_\_

12-16-92 7:13AM

35280 LBS. GROSS

*34680*

LBS. TARE—DRIVER ON \_\_\_\_\_ OFF \_\_\_\_\_


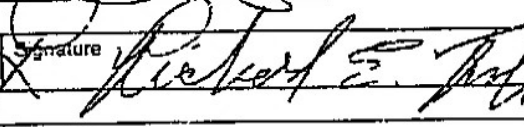

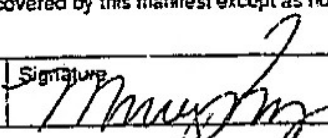
*60600*

LBS. NET @ \_\_\_\_\_ PER LB. PRICE \_\_\_\_\_

SHIPPER \_\_\_\_\_

WEIGHER \_\_\_\_\_

FAIRBANKS CAT. NO. 083905

<b>PETRO CELL PETROLEUM CONTAMINATED SOIL MANIFEST</b>		1. Generator's US EPA ID No. (if applicable)	2. Control Number PC92-332
3. Generator's Name and Site Address SYSCO FOODS - CLEVELAND			
4. Generator's Phone ( )			
5. Transporter 1 Company Name EMPACO EQUIP CORP		6. JS EPA ID Number	A. Transporter's Phone 216 659-9393
7. Transporter 2 Company Name		8. US EPA ID Number	B. Transporter's Phone
9. Designated Facility Name and Site address PETRO CELL DIVISION OF PETRO ENV. TECHNOLOGIES, INC. 1600 Robinson Road Washington Court House, OH 43160		10. US EPA ID Number OHD 3806 10968	C. Facility's Phone (614) 335-1568  D. Office Phone (800) 955-7380
11. US DOT Description (Including Proper Shipping name, Hazard Class, and ID Number)		12. Total Quantity	13. Yards/Tons
a. HM PETROLEUM CONTAMINATED SOIL			25.16 Tons
b.			
c.			
d.			
J. Additional Description for Materials Listed Above		K. Handling Codes for Wastes Listed Above	
14. Special Handling Instructions and Additional Information			
15. CERTIFICATION: I hereby declare that the contents of this consignment are not subject to federal regulation for reporting proper disposal of Hazardous Waste. The contents are Petroleum Contaminated Soils defined by the Ohio Environmental Protection Agency.			
Printed/Typed Name J.D. CIBBS FOR SYSCO FOOD SERV./CLEV.		Signature 	Month Day Year 1/21/92
Transporter 1 Acknowledgment of Receipt of Materials			
Printed/Typed Name RICHARD E. TRNKA		Signature 	Month Day Year 1/21/92
Transporter 2 Acknowledgment of Receipt of Materials			
17. Printed/Typed Name		Signature	Month Day Year
18. Discrepancy Indication Space  SORTING: Yes No		19. Quadrant Received	
20. Facility Owner or Operator: Certification of receipt of materials covered by this manifest except as noted in Item 18.			
Printed/Typed Name 		Signature 	Month Day Year 1/21/92

00802519

WEIGHED ON A FAIRBANKS SCALE

NO. \_\_\_\_\_

CUSTOMER'S NAME Petro-cell

ADDRESS \_\_\_\_\_

COMMODITY \_\_\_\_\_

CARRIER Empaco 15

REMARKS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

12-16-32 9:33AM 24380 LBS. GROSS

34060 LBS. TARE—DRIVER ON \_\_\_\_\_ OFF \_\_\_\_\_

50320 LBS. NET @ \_\_\_\_\_ PER LB. PRICE \_\_\_\_\_

SHIPPER \_\_\_\_\_

FAIRBANKS CAT. NO. 083905

WEIGHER \_\_\_\_\_

PETRO CELL PETROLEUM CONTAMINATED SOIL MANIFEST

1. Generator's US EPA ID No. (if applicable)

2. Control Number  
PC92-332

3. Generator's Name and Site Address  
SYSCO FOODS-CLEVELAND

4. Generator's Phone ( )

5. Transporter 1 Company Name  
EMPA'S EQUIP CORP

6. US EPA ID Number

A. Transporter's Phone  
216 659-9393

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site address  
PETRO CELL DIVISION OF  
PETRO ENV. TECHNOLOGIES, INC.  
1600 Robinson Road  
Washington Court House, OH 43160

10. US EPA ID Number  
OHD 9806 10968

C. Facility's Phone  
(614) 335-1508

D. Office Phone  
(800) 955-7380

11. US DOT Description (Including Proper Shipping name, Hazard Class, and ID Number)

12. Total Quantity

13. Yards/Tons

a. PETROLEUM CONTAMINATED SOIL

22.13 TON

b.

c.

d.

J. Additional Description for Materials Listed Above

K. Handling Codes for Wastes Listed Above

14. Special Handling Instructions and Additional Information

15. CERTIFICATION: I hereby declare that the contents of this consignment are not subject to federal regulation for reporting proper disposal of Hazardous Waste. The contents are Petroleum Contaminated Soils defined by the Ohio Environmental Protection Agency.

Printed/Typed Name  
J.D. GIBBS FOR SYSCO FOOD SERV. CLEV.

Signature

Month Day Year  
11-21-92

Transporter 1 Acknowledgment of Receipt of Materials

16. Printed/Typed Name  
RICHARD E. TRINKA

Signature

Month Day Year  
12/16/92

Transporter 2 Acknowledgment of Receipt of Materials

17. Printed/Typed Name

Signature

Month Day Year

18. Discrepancy Indication Space

19. Quadrant Received

CORRECTING: Yes No

20. Facility Owner or Operator: Certification of receipt of materials covered by this manifest except as noted in Item 18.

Printed/Typed Name  
MURPHY

Signature

Month Day Year  
11/21/92

WEIGHED ON A FAIRBANKS SCALE

DATE \_\_\_\_\_  
CUSTOMER'S NAME P. Hoell

ADDRESS \_\_\_\_\_

COMMODITY \_\_\_\_\_

CARRIER Empire B

REMARKS \_\_\_\_\_  
\_\_\_\_\_

LBS. GROSS

12-17-92

9:33AM

78320

LBS. TARE—DRIVER ON \_\_\_\_\_ OFF \_\_\_\_\_

34060  
44260



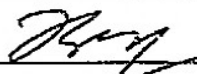
LBS. NET @ \_\_\_\_\_ PER LB. PRICE \_\_\_\_\_

SHIPPER \_\_\_\_\_

WEIGHER \_\_\_\_\_

FAIRBANKS CAT. NO. 083905



<b>PETRO CELL PETROLEUM CONTAMINATED SOIL MANIFEST</b>		1. Generator's US EPA ID No. (if applicable)	2. Control Number 1C92-332	
3. Generator's Name and Site Address SYSCO FOODS-CLEVELAND				
4. Generator's Phone ( )				
5. Transporter 1 Company Name EMPACO EQUIP. CORP.		6. US EPA ID Number		A. Transporter's Phone 216 659-9393
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone
9. Designated Facility Name and Site address PETRO CELL DIVISION OF PETRO ENV. TECHNOLOGIES, INC. 1600 Robinson Road Washington Court House, OH 43160		10. US EPA ID Number OHD 9806 10968		C. Facility's Phone (614) 335-1508
				D. Office Phone (800) 955-7380
11. US DOT Description (Including Proper Shipping name, Hazard Class, and ID Number) HM			12 Total Quantity	13 Yards/Tons
a	PETROLEUM CONTAMINATED SOIL			2283 TONS
b				
c				
d				
J. Additional Description for Materials Listed Above			K. Handling Codes for Wastes Listed Above	
14. Special Handling Instructions and Additional Information				
15. CERTIFICATION: I hereby declare that the contents of this consignment are not subject to federal regulation for reporting proper disposal of Hazardous Waste. The contents are Petroleum Contaminated Soils defined by the Ohio Environmental Protection Agency.				
Printed/Typed Name J.D. GIBBS EIC SYSCO FOOD SERV. CLEVEL.		Signature 		Month Day Year 11-21-92
Transporter 1 Acknowledgment of Receipt of Materials				
16. Printed/Typed Name RICHARD E. TRNKA		Signature 		Month Day Year 12-19-92
Transporter 2 Acknowledgment of Receipt of Materials				
17. Printed/Typed Name		Signature		Month Day Year . . .
18. Discrepancy Indicator: Sp: a  SORTING: Yes No		19. Quadrant Received		
20. Facility Owner or Operator: Certification of receipt of materials covered by this manifest except as noted in item 12				
Printed/Typed Name D. HADY		Signature 		Month Day Year 12-08-92

WEIGHED ON A FAIRBANKS SCALE

*Yellow K*

DATE \_\_\_\_\_

CUSTOMER'S NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

COMMODITY \_\_\_\_\_

CARRIER \_\_\_\_\_

REMARKS \_\_\_\_\_

LBS. GROSS \_\_\_\_\_

12-18-27 1011PDM

78770

LBS. TARE - DRIVER ON \_\_\_\_\_ GFF. \_\_\_\_\_

34.60

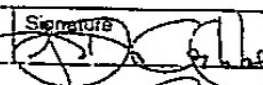
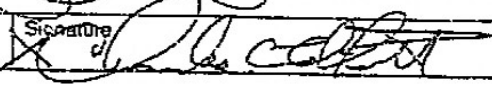

LBS. NET @ \_\_\_\_\_ PER LB. PRICE \_\_\_\_\_

*47.60*

SHIPPER \_\_\_\_\_

WEIGHER \_\_\_\_\_

FAIRBANKS CAT. NO. 083505

<b>PETRO CELL PETROLEUM CONTAMINATED SOIL MANIFEST</b>		1. Generator's US EPA ID No. (if applicable)	2. Control Number PC 92-332
3. Generator's Name and Site Address SYSCO FOODS-CLEVELAND			
4. Generator's Phone ( )			
5. Transporter 1 Company Name EMPRACO EQUIP. CORP.	6. US EPA ID Number	A. Transporter's Phone 216 659-9393	
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone	
9. Designated Facility Name and Site address PETRO CELL DIVISION OF PETRO ENV. TECHNOLOGIES, INC. 1600 Robinson Road Washington Court House, OH 43160	10. US EPA ID Number OHD 9806 10966	C. Facility's Phone (614) 335-1508	
		D. Office Phone (800) 955-7380	
11. US DOT Description (Including Proper Shipping name, Hazard Class, and ID Number)		12 Total Quantity	13 Yards/Tons
a. PETROLEUM CONTAMINATED SOIL			13.23 Tons
b.			
c.			
d.			
J. Additional Description for Materials Listed Above		K. Handling Codes for Wastes Listed Above	
14. Special Handling Instructions and Additional Information			
15. CERTIFICATION: I hereby declare that the contents of this consignment are not subject to federal regulation for reporting proper disposal of Hazardous Waste. The contents are Petroleum Contaminated Soils defined by the Ohio Environmental Protection Agency.			
Printed/Typed Name J.D. GIBBS		Signature 	Month Day Year 11-21-79
Transporter 1 Acknowledgment of Receipt of Materials			
Printed/Typed Name Charles Celliott		Signature 	Month Day Year 12-17-92
Transporter 2 Acknowledgment of Receipt of Materials			
Printed/Typed Name		Signature	Month Day Year
18. Discrepancy Indication Space SORTING: Yes No		19. Quadrant Received	
20. Facility Owner or Operator: Certification of receipt of materials covered by this manifest except as noted in Item 18.			
Printed/Typed Name D. Gray		Signature 	Month Day Year 12-18-92

ORIGINAL - RETURN TO GENERATOR

00002525

WEIGHED ON A FAIRBANKS SCALE

DATE \_\_\_\_\_

CUSTOMER'S NAME \_\_\_\_\_

*Peter Dill*

ADDRESS \_\_\_\_\_

COMMODITY \_\_\_\_\_

CARRIER \_\_\_\_\_

*7/1/96 H*

REMARKS \_\_\_\_\_

LBS. GROSS \_\_\_\_\_

*12-18-92 10:13AM*

*5.9480*

LBS. TARE—DRIVER ON \_\_\_\_\_ OFF \_\_\_\_\_

*37.70*

LBS. NET @ \_\_\_\_\_ PER LB. PRICE \_\_\_\_\_

*2040*

SHIPPER \_\_\_\_\_

WEIGHER \_\_\_\_\_

FAIRBANKS CAT. NO. 083905

00002528

### List of Appendices

- Appendix A - BUSTR Notification Letter and  
UST Removal Permits
- Appendix B - Residual Product Removal Receipts
- Appendix C - UST Disposal Documentation
- Appendix D - Photographic Documentation
- Appendix E - Headspace Analysis Procedures
- Appendix F - Laboratory Results for Accumulated  
Water and Discharge Permit
- Appendix G - TCV Concentrations
- Appendix H - Laboratory Results
- Appendix I - Density Testing Results

FINAL REPORT  
UNDERGROUND STORAGE TANK CLOSURES  
AND EXCAVATION AREA ASSESSMENTS  
SYSCO FOOD SERVICES OF CLEVELAND  
FORMER SYSCO FOODS DISTRIBUTION CENTER  
5800 GRANT AVENUE  
CUYAHOGA HEIGHTS, OHIO  
AUGUST MACK PROJECT NUMBER 92914.11

INTRODUCTION

August Mack Environmental, Inc. (August Mack) has completed the closure activities and excavation area assessments for three underground storage tanks (USTs) at the above referenced facility. The USTs included one 12,000 gallon capacity diesel fuel tank, one 10,000 gallon capacity diesel fuel tank and one 500 gallon capacity new lube oil tank. The USTs were removed as part of a contingency to complete a property transaction between Sysco Food Services/Cleveland (Sysco) and Riser Foods. The purpose of these activities was to remove the vessels and assess the resulting excavations to determine if past operations of the UST systems had impacted the soils at the site. The scope of work involved closing and cleaning the tanks in accordance with American Petroleum Institute (API) and National Fire Protection Association (NFPA) guidelines, removing the product lines and dispenser pumps associated with the tank systems and assessing the base and sidewalls of the resulting excavation for releases in accordance with United States Environmental Protection Agency (US EPA) and Ohio Department of Commerce, Division of State Fire Marshal, Bureau of Underground Storage Tank Regulations

(EUSTR) requirements. This report documents the activities conducted during the closure of the vessels and presents our findings relative to the site.

#### SITE DESCRIPTION

The project site is located in Cuyahoga County at 5800 Grant Avenue in Cuyahoga Heights, Ohio as illustrated in Figure 1. The site is currently being operated as a food distribution warehouse by Riser Foods. The site was previously owned and operated in the same capacity by Sysco. As previously mentioned, two of the USTs were used to store diesel fuel and the third UST was used to store unused lube oil. The diesel tanks were contained within the same tank farm while the lube oil tank was contained in a separate area north of the diesel tanks. All of the tanks were constructed of fiberglass materials. The vessels are located on the northcentral portion of the property as depicted in Figure 2.

FINAL REPORT  
UNDERGROUND STORAGE TANK CLOSURES  
AND EXCAVATION AREA ASSESSMENTS  
SYSCO FOOD SERVICES OF CLEVELAND  
FORMER SYSCO FOODS DISTRIBUTION CENTER  
5800 GRANT AVENUE  
CUYAHOGA HEIGHTS, OHIO  
AUGUST MACK PROJECT NUMBER 92614.11

TABLE OF CONTENTS

INTRODUCTION.....1  
SITE DESCRIPTION.....2  
CLOSURE ACTIVITIES.....5  
    Regulatory Coordination.....5  
    UST Removal Activities.....6  
    UST Inspection.....8  
EXCAVATION AREA ASSESSMENT.....9  
    Excavation #1.....12  
    Excavation #2.....15  
LABORATORY RESULTS.....16  
CONTAMINATED SOILS MANAGEMENT.....18  
SITE RESTORATION.....19  
CONCLUSIONS.....20

List of Figures

Figure 1 - Vicinity Map.....3  
Figure 2 - Site Plan.....4  
Figure 3 - Excavation and Headspace Locations.....11

List of Tables

Table 1 - Volume of Measured UST Contents.....7  
Table 2 - Laboratory Results for Tank Pit Water.....14  
Table 3 - Confirmatory Laboratory Results.....16  
Table 4 - OEPA Contaminated Soil Policy Requirements.....17





October 6 1992

Mr. John Gracia  
Project Coordinator  
Sysco Corporation  
1390 Enclave Parkway  
Houston, Texas 77077

Re: Final Report  
UST Closures  
Sysco Food Services/Cleveland  
5800 Grant Avenue  
Cuyahoga Heights, Ohio  
August Mack Project Number 92014.11

Dear Mr. Gracia,

August Mack Environmental, Inc. has completed the closure activities for the three underground storage tanks removed from the above referenced facility. This report describes the activities performed to complete the closures and presents findings and conclusions relative to the site.

We have enjoyed working with you on this project. If you any questions regarding this submittal or require additional information, please do not hesitate to contact us.

Sincerely,

  
Jim Alvarez  
Project Geologist

8021 CASTLETON ROAD  
INDIANAPOLIS, INDIANA 46250  
TEL: (317) 579-7400  
FAX: (317) 579-7410

4353 TULLER ROAD, SUITE H  
DUBLIN, OHIO 43017  
TEL: (614) 798-9922  
FAX: (614) 798-9927



November 2, 1992



RECEIVED

1992 NOV -3 A 9 23

STATE FIRE MARSHAL  
BUSTR

Release Prevention Manager  
Division of State Fire Marshal  
Bureau of Underground Storage Tank Regulations  
8895 East Main Street  
P.O. Box 687  
Reynoldsburg, Ohio 43068-0687

Re: Final Report  
UST Closures  
Sysco Food Services/Cleveland  
5800 Grant Avenue  
Cuyahoga Heights, Ohio  
August Mack Project Number 92014.11

Dear Release Prevention Manager,

Enclosed please find one copy of the report prepared for the UST Closures performed at the above referenced property.

We trust this submittal is responsive to your needs. If you have any questions regarding this submittal or require additional information, please do not hesitate to contact us.

Sincerely,

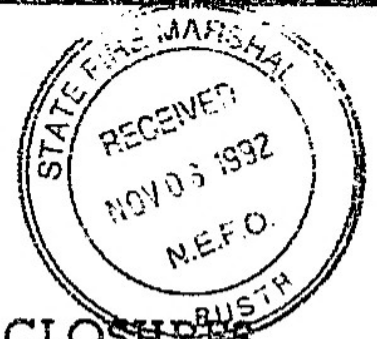
*Jim Alvarez*  
Jim Alvarez  
Project Geologist

c. John Gracia  
Sysco Corporation

6021 CASTLETON ROAD  
INDIANAPOLIS, INDIANA 46250  
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4353 TULLER ROAD, SUITE H  
DUBLIN, OHIO 43017  
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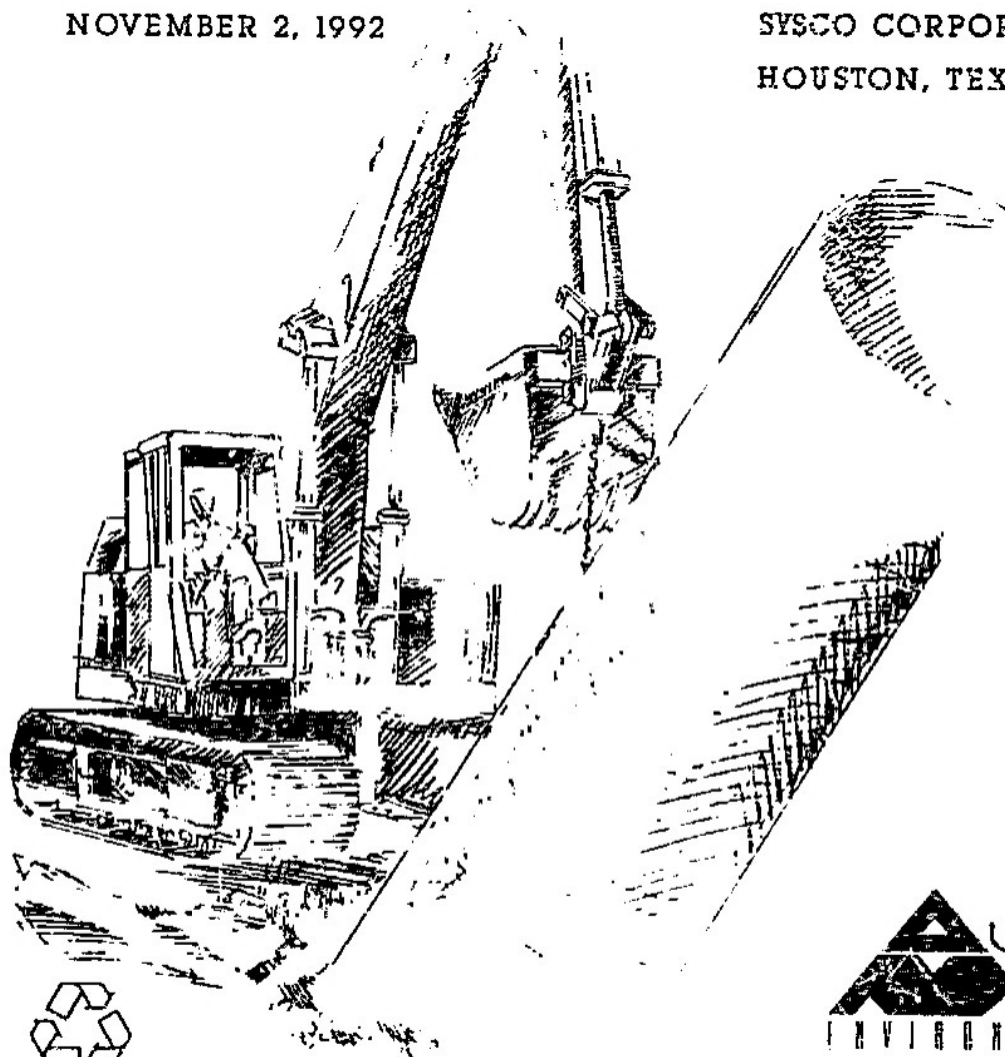
FINAL REPORT

# UNDERGROUND STORAGE TANK CLOSURES AND EXCAVATION AREA ASSESSMENTS

SYSKO FOOD SERVICES OF CLEVELAND  
FORMER SYSKO FOODS DISTRIBUTION CENTER  
5800 GRANT AVENUE  
CUYAHOGA HEIGHTS, OHIO  
AUGUST MACK PROJECT NUMBER 92014.11

ISSUED:  
NOVEMBER 2, 1992

PREPARED FOR:  
SYSKO CORPORATION  
HOUSTON, TEXAS

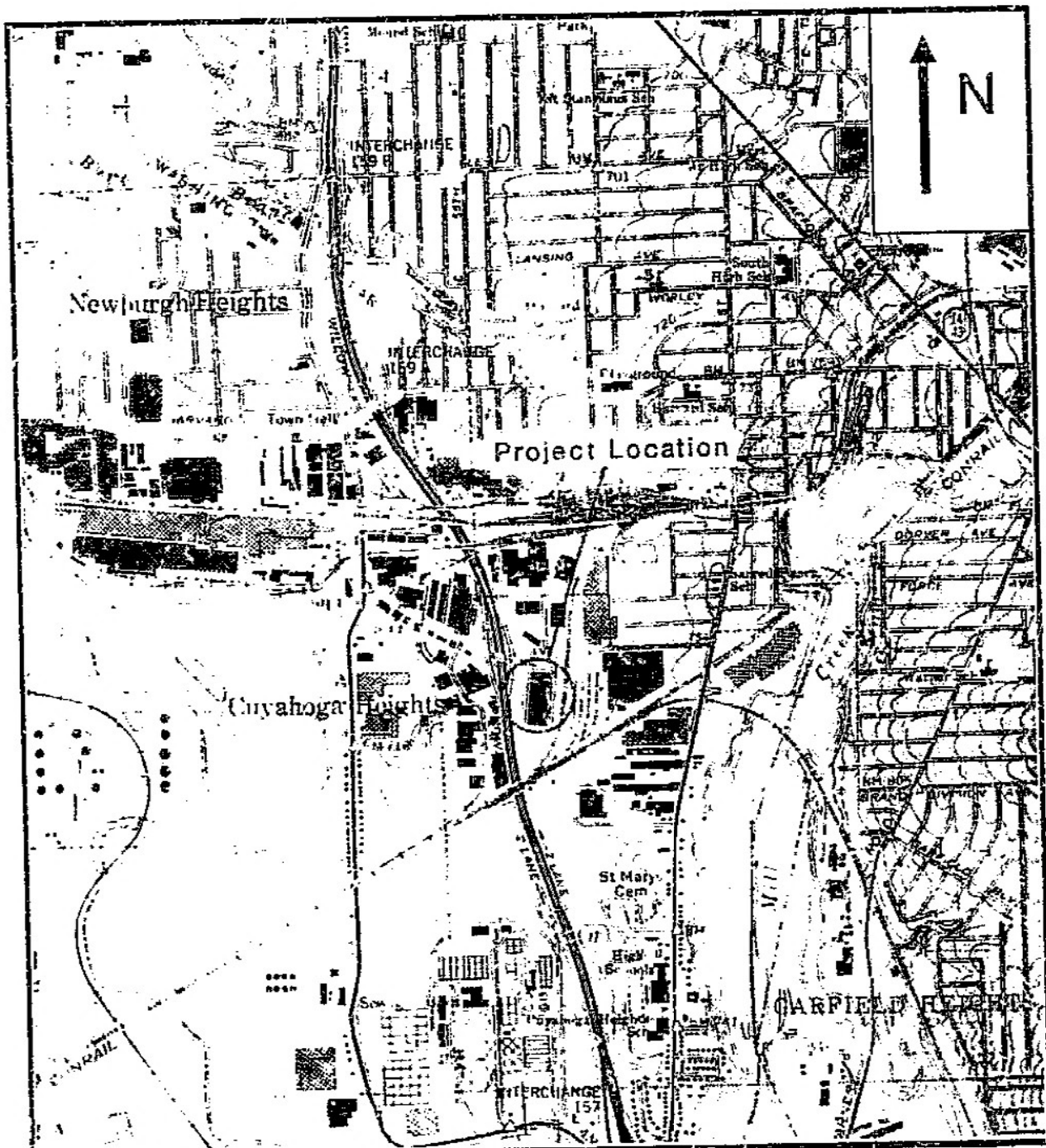


RECEIVED  
NOV 2 9 23  
STATE FIRE MARSHAL  
CUYAHOGA COUNTY, OHIO



Printed on recycled paper





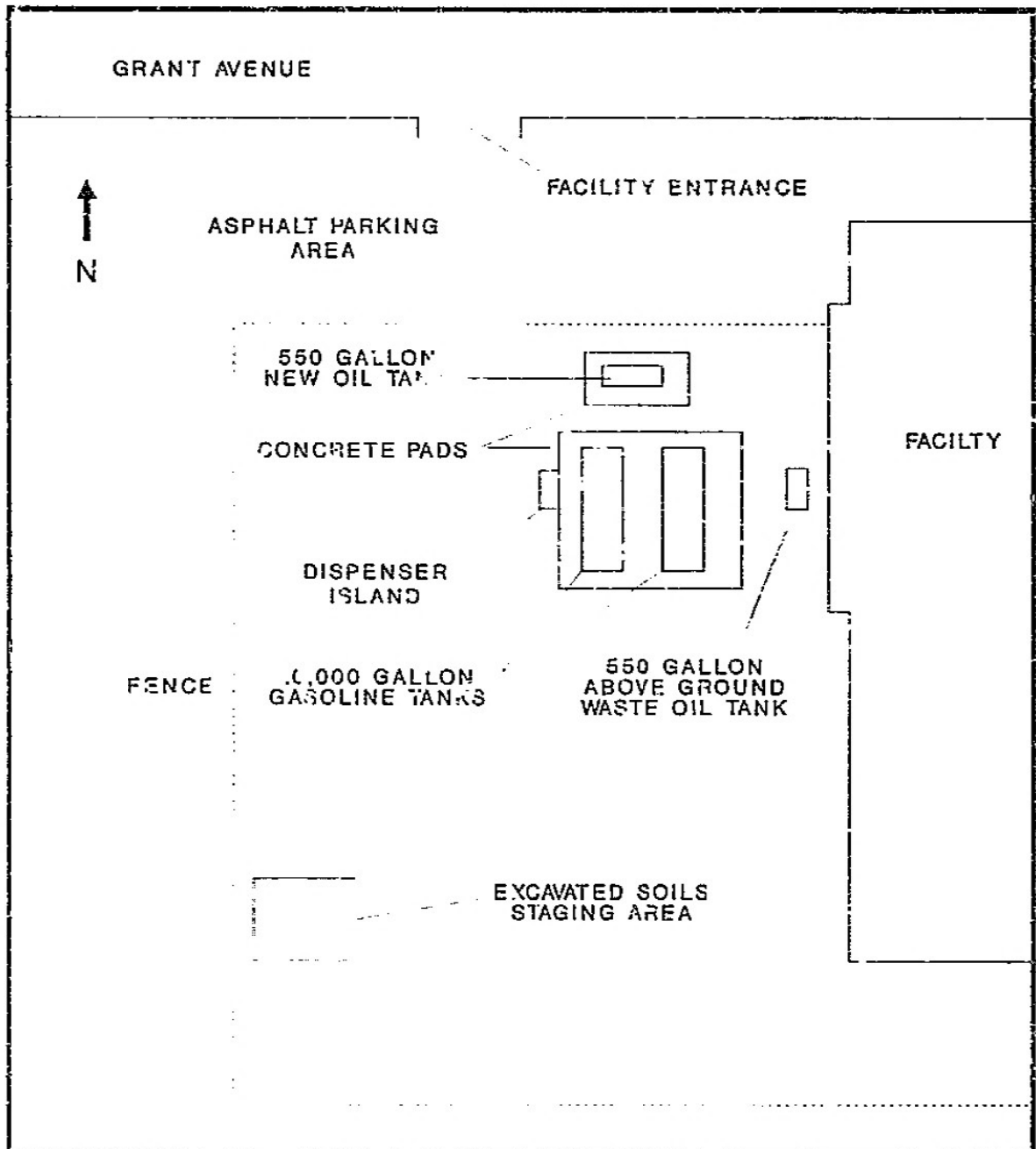
**VICINITY MAP**

Tank Closures  
 Sysco Corporation  
 5800 Grant Avenue  
 Cuyahoga Heights, Ohio

PROJECT NO.  
 92014.11

SCALE  
 1 in = 2,000 ft

FIGURE NO.  
 1



**SITE PLAN**  
 FORMER SYSCO FOODS  
 FACILITY  
 5800 GRANT AVENUE  
 CLEVELAND, OHIO

PROJECT NO.  
92014.11

SCALE NTS

FIGURE NO.  
2

## CLOSURE ACTIVITIES

### Regulatory Coordination

The US EPA passed regulations governing UST management on December 22, 1988. These regulations are codified in section 40 of the Code of Federal Regulations Part 280 and address the design, installation, monitoring and permanent closure of USTs. The US EPA has authorized BUSTR to be the State implementing agency of these regulations. BUSTR has also established specific guidelines to be followed to ensure compliance with the federal regulations.

In order to initiate final closure of regulated USTs, the regulations require notification to BUSTR at least 30 days prior to commencement of work. Additionally, BUSTR requires that a written permit must be obtained from the local fire marshal and that arrangements must be made to have an inspector on-site during tank and piping removal. All regulatory coordination was provided by August Mack and its agents. Copies of the 30 day notification letter, the application for the permit and the written permit obtained from the local fire marshal are included in Appendix A.

## UST Removal Activities

Following receipt of the removal permits, August Mack arrived at the site on July 21, 1992 to oversee the UST removal operations and assess the resulting excavations. The UST removals were performed by Empaco Equipment Corporation (Empaco) of Richfield, Ohio under the direct supervision of an August Mack representative and in the presence of the State Fire Marshal Site Inspector. Prior to initiating the removal of the vessels, each of the tanks were checked for the presence of product and/or residual liquids. According to collected measurements, each of the tanks contained a minimum of 10 inches of product/residual liquid. A summary of the volume contained in each tank is presented in Table 1. The liquids were removed from each tank using a vacuum truck supplied by Empaco and were transported off-site for either reclamation by Empaco or disposal at Research Oil Company. Documentation of the product removal is included in Appendix B. While removing the liquids from the tanks, the dispenser island associated with the diesel fuel tank was disconnected and removed from the site by Empaco. Once the tank contents were removed and the dispenser island was disassembled, the concrete pads which covered both the diesel fuel tanks and the lube oil tank were removed using the bucket of a John Deere 790D LC excavator. All concrete removed during the closure activities was stockpiled adjacent to the excavation to be

used as backfill material once the removal process was completed.

Table 1  
Volume of Measured UST Contents

<u>Tank I.D.</u>	<u>Amount (inches)</u>	<u>Volume (gallons)</u>
12,000 Diesel	12	620
10,000 Diesel	10	440
500 Lube Oil	10	90

Note: Volumes were estimated using a Horizontal Tank Capacity Calculating Chart.

After the concrete pads were removed, the soils overlying the tanks were excavated to expose the tanks. The excavated soils were inspected for evidence of petroleum hydrocarbon contamination both visually and with the aid of a combustible vapor monitoring instrument. The instrument used during site closure was the Gastechtor Model 1314 combustible vapor meter. The Gastechtor is capable of measuring total combustible vapor (TCV) concentrations emitted from the soil in the parts per million (ppm) range with an upper limit of 500 ppm. In addition to exposing the tanks, the associated product lines were uncovered.

After the tanks were exposed, they were prepared for removal operations. This involved removing all of the fill pipes and all gauge, product and vent lines from the tanks. Once all of the ancillary equipment was removed, dry ice was placed in the tanks to displace the oxygen, thus, removing the potential for



an explosive atmosphere within the tanks. After the potential for an explosive atmosphere had been removed, additional excavation was performed to break the seal between the tanks and the subsoil. While attempting to break the seal of the diesel fuel tanks from the excavation, it was determined that they were strapped down to a concrete pad located at the base of the tank farm. The straps were cut and a chain was attached to each tank and the arm of the excavator in order to lift the tanks from the excavation one at a time. Each diesel fuel tank and the new lube oil tanks were then placed on the ground adjacent to the excavation for inspection by both, August Mack and the fire marshal.

#### UST Inspection

Once the USTs were removed from their respective excavations, they were inspected for evidence of failure. Typical signs of failure for fiberglass USTs include holes, cracks, punctures, etc. All three of the tanks appeared to be in good condition and did not display any noticeable signs of failure which would indicate a direct source for a release or leakage. Once the inspection process was completed, the tanks were placed on-site and away from the excavation and the remaining residuals were removed and placed into United States Department of Transportation (US DOT) approved type 17H 55 gallon drums. Once the tanks were cleaned, they were crushed

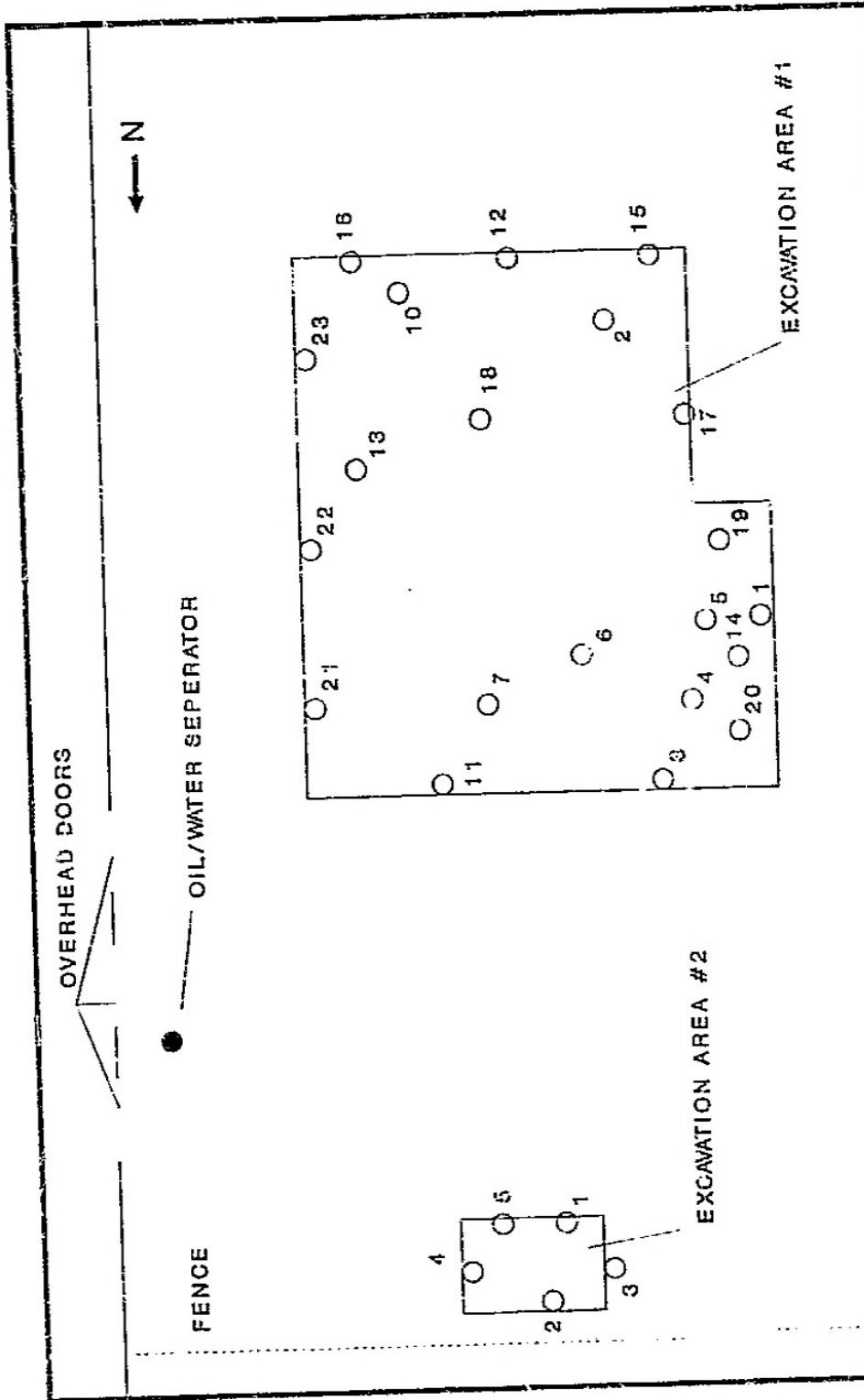
and delivered to Inland/Solon Sanitary Landfill located in Glenwillow, Ohio for disposal. The disposal receipt for the tanks is included in Appendix C. Disposal for the drums containing tank residuals is currently being coordinated and documentation will be provided to Sysco under separate cover. Photographic documentation of the closure activities is included in Appendix D.

#### EXCAVATION AREA ASSESSMENTS

In order to determine if UST operations had impacted the soils surrounding the tanks, assessments of the two excavation areas were performed. Excavation #1 was generated as a result of the removal of the 12,000 gallon and 10,000 gallon diesel fuel tanks while Excavation # 2 was generated as a result of the removal of the 500 gallon new lube oil tank. These assessments included the collection and field screening of soil samples from the base and sidewalls of each excavation to determine if leakage and/or spillage had occurred. Additionally, BUSTR requires that soil samples be collected from underneath the dispenser island and from every 20 feet (ft) along the product piping run. Since, the dispenser island and the product lines were located immediately above the diesel fuel USTs and no dispenser pump or product line existed for the new lube oil tank, no pipe run samples were required. The excavation assessments involved visual

inspection of the base and sidewalls of the respective excavations supplemented by combustible vapor monitoring using the Gastechtor. It should be noted, the Gastechtor is an on-site qualitative screening instrument used to indicate the potential for the presence of petroleum hydrocarbon contamination. Concentrations obtained from this instrument cannot be directly correlated to quantitative laboratory results of contaminated soil samples.

Once the USTs and product lines were removed from the ground, soil samples were collected from the resulting excavations following the requirements established by BUSTR. After each of the samples was collected, it was inspected for TCV concentrations as described above and using the headspace analysis procedures explained in Appendix E. The sample locations are depicted in Figure 3. Based on field inspection results, the three samples from each excavation which exhibited the greatest potential for petroleum hydrocarbon contamination were containerized in glass sample jars, sealed with a teflon coated lid, placed on ice and delivered along with chain-of-custody documentation to Advanced Analytical Laboratories (AAL), located in Columbus, Ohio. All of the samples were analyzed for total petroleum hydrocarbons (TPH) using EPA Method 418.1 and benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method 8020 as required by BUSTR.



<p><b>AUGUST ACK ENVIRONMENTAL INC.</b></p>	<p><b>EXCAVATION &amp; HEADSPACE LOCATIONS</b>          FORMER SYSCO FOODS FACILITY          5800 GRANT AVENUE          CLEVELAND, OHIO</p>	
	<p>PROJECT NO. 92014.11</p>	<p>SCALE NTS</p>
	<p>FIGURE NO. 3</p>	

### Excavation #1

The backfill material directly overlying and surrounding the tanks consisted of pea gravel. Strong petroleum odors were encountered in the backfill material around each of the fill pipes and underneath the dispenser island. All affected material was removed from the excavation and staged on plastic in the southern portion of the property. The staging area was bermed on three sides using unaffected material to inhibit the potential for run-off during adverse weather conditions. Small areas of affected natural soils were also encountered throughout the excavation from the surface to a depth of approximately 10 ft. These soils were stained black, contained a characteristic diesel fuel odor and were removed from the excavation and stockpiled with the affected backfill material. Once the vessels were removed from Excavation #1, the sidewalls revealed the natural soils to consist primarily of brown to gray colored silty clay from the surface to the extent of the excavation. Due to the affected backfill material and soils encountered during the excavation process, the release was reported to BUSTR within 24 hours.

Following notification to BUSTR, it was determined that all affected material would be removed from the excavation and staged at the stockpiling area described earlier until

disposal arrangements can be made. During the process of the removal of the tanks, water was encountered in the excavation. It was believed that this water was perched water contained in the backfill material and not groundwater, therefore, the most efficient method of disposal would be to discharge the water to the nearest sanitary sewer and the Northeast Ohio Regional Sewer District treatment facility. In order to achieve this, August Mack collected a sample of the water and delivered it to AAL for TPH and BTEX analysis as required by the treatment facility. At the request of a Sysco representative, the water sample was analyzed on a 24 hour rush turnaround basis. The laboratory results were forwarded to the Regional Sewer District for review. Upon review of the laboratory results and completion of the appropriate permit, permission was granted to discharge the accumulated water to the sanitary sewer. The laboratory results for the water are summarized in Table 2 while copies of the laboratory results and the discharge permit included in Appendix F.

Table 2

Laboratory Results for Tank Pit Water  
(ppm)

<u>Parameter</u>	<u>Result</u>	<u>Date Collected</u>
Benzene	<0.002	7/21/92
Toluene	0.006	7/21/92
Ethylbenzene	0.004	7/21/92
Xylenes	0.018	7/21/92
TPH	<1.0	7/21/92

Approximately 500 gallons of water were pumped from the excavation to the oil/water separator located approximately 30 ft north of the excavation using a two inch hose attached to a submersible pump. The oil/water separator discharges directly into the sanitary sewer. Once the water was pumped from the excavation, no additional water was observed coming into the excavation.

Once field inspection revealed that all of the contaminated soils had been removed from Excavation #1, confirmatory field screening was performed at the locations illustrated in Figure 3. As mentioned previously, a concrete pad was located at the base of the excavation which the fiberglass tanks were anchored to. In conversations with the regional BUSTR representative, it was determined that samples of the natural material around the edges of the concrete pad could be obtained and field screened to indicate the presence of petroleum hydrocarbon contamination. Since field screening did not reveal the presence of petroleum hydrocarbon vapors,

the BUSTER representative indicated that the pad would not have to be removed from the excavation. Confirmatory field screening from Excavation #1 revealed TCV concentrations ranging from non-detectable in the sample collected from the east sidewall to 70 ppm collected from 3 to 4 ft below grade along the eastern sidewall. The latter contained no stains or petroleum odor, however, it did contain iron and organic mottles. Samples collected from around the concrete pad emitted TCV concentrations ranging from 20 to 30 ppm. TCV concentrations obtained from all of the soil samples collected in excavation one are tabulated in Appendix G. Based on visual observations and TCV monitoring, the samples identified as Ex-1-1 (south base), EX-1-2 (south sidewall) and Ex-1-3 (north sidewall) were submitted to the laboratory for confirmatory analysis.

#### Excavation #2

Excavation #2 was generated as a result of the removal of the 500 gallon new lube oil tank. The subsurface soils were similar to the soils encountered in Excavation #1. Field screening of these soils revealed TCV concentrations ranging from 20 to 30 ppm with the highest concentrations encountered in the sample collected from the west sidewall. The TCV concentrations obtained from Excavation #2 are also tabulated in Appendix G. Based on field screening results, the samples



identified as Ex-2-1 (base), Ex-2-2 (east sidewall) and Ex-2-3 (west sidewall) were submitted to the laboratory for confirmatory analysis.

### LABORATORY RESULTS

The results of the laboratory analysis for the confirmatory soil samples are summarized in Table 3 and complete laboratory results are included in Appendix H.

Table 3  
Confirmatory Laboratory Results  
(ppm)

<u>Analysis Parameter</u>	<u>EX-1-1</u>	<u>EX-1-2</u>	<u>EX-1-3</u>
Benzene	<0.002	<0.002	<0.002
Toluene	<0.002	<0.002	<0.002
Ethylbenzene	<0.002	<0.002	<0.002
Xylenes	<0.002	<0.002	0.003
TPH	<1.0	3.4	2.0

<u>Analysis Parameter</u>	<u>EX-2-1</u>	<u>EX-2-2</u>	<u>EX-2-3</u>
Benzene	<0.002	<0.002	<0.002
Toluene	<0.002	<0.002	<0.002
Ethylbenzene	<0.002	<0.002	<0.002
Xylenes	0.004	<0.002	<0.002
TPH	<1.0	<1.0	4.2

Currently, neither the US EPA nor BUSTR have established levels of TPH or BTEX allowed to remain in the soil following the removal of a regulated UST. In the past, BUSTR has administered acceptable levels allowed to remain in the soils

on a site-by-site basis, however, they are in the process of establishing guidelines and expect to have them implemented later this year. In order to compare the analytical results to established criteria, we have chosen to use the guidelines promulgated by the Ohio Environmental Protection Agency, Division of Solid and Hazardous Waste (OEPA). The OEPA has prepared an interim policy concerning petroleum contaminated soil (PCS) that defines a distinct set of conditions which, when met, provide for petroleum contaminated soils to be managed as non-regulated material. This policy is applicable if the low levels of contamination are discovered during an investigation or are obtained following treatment. The OEPA has determined that TPH and BTEX concentrations will be used to determine the soils management guidelines. The concentrations of TPH and BTEX which are allowed to remain in the soils are summarized in Table 4.

Table 4

OEPA Contaminated Soil Policy Requirements

<u>Parameter</u>	<u>Allowable Concentration</u>
Benzene	0.006 ppm
Toluene	4.000 ppm
Ethylbenzene	6.000 ppm
Xylenes	28.000 ppm
TPH	40 ppm

Based on a comparison of the reported laboratory results and

the PCS Policy, none of the soil samples submitted to the laboratory contained TPH or BTEX concentrations above the PCS requirements.

#### CONTAMINATED SOILS MANAGEMENT

A combined total of approximately 100 cy of affected backfill material and natural soil was removed from the diesel fuel tank excavation and stockpiled on plastic in the southern portion of the property. In conversation with the Sysco Project Coordinator, the chosen method of treatment for these soils was off-site bioremediation at the Petro Environmental Technologies, Inc. (PetroTec) treatment facility located in West Chester, Ohio. In order to treat the soils at PetroTec, August Mack collected a sample of the stockpiled waste stream for laboratory analysis in accordance with the PetroTec requirements. The sample was analyzed for total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene and xylenes (BTEX), ignitability and total lead. The results have been received and forwarded to PetroTec and they have agreed to accept and treat the soils at their facility. August Mack has obtained costs for transportation and treatment of the soils and has forwarded them to Sysco.

## SITE RESTORATION

Once the laboratory results confirmed the levels of TPH and BTEX were below the allowable limits for Excavation #1, the excavation was cleared for backfilling. The excavation was initially backfilled using the broken pieces of the concrete pad which previously covered the tanks. The remaining space was then backfilled using fill sand transported from River Dock, Inc. located in Cleveland, Ohio. During the initial phase of the backfilling, the excavation was backfilled in one ft lifts and compacted to approximately 93% of the dry weight density as specified by Sysco. Density test results are included in Appendix I. Excavation #1 was then scheduled to be restored to its original condition (8 inches of reinforced concrete), however, at the discretion of Sysco, the excavation area was backfilled to grade with the fill sands. Excavation #2 was backfilled immediately after field screening results using the original backfill material and natural soils excavated during the removal process then completed with the same fill sand mentioned above. Both excavations were slightly over-backfilled to allow for settling.

## CONCLUSIONS

August Mack was retained by Sysco to perform UST closure activities management and excavation area assessments at 5800 Grant Avenue in Cuyahoga Heights, Ohio. The vessels were closed in accordance with API and NFPA guidelines. The assessments were performed on two excavations resulting from the removal of three USTs in accordance with applicable US EPA and BUSTR requirements. Excavation #1 was formed by the removal of two diesel fuel tanks, 12,000 gallons and 10,000 gallons in capacity and their respective product lines and dispenser island while Excavation #2 was formed by the removal of one 500 gallon new lube oil tank. All three tanks were constructed of fiberglass.

Prior to removal all of the liquids which were contained in each of the vessels were removed and either used by Empaco or disposed of at Research Oil Company. Based on field inspection, the backfill material in Excavation #1 exhibited signs of petroleum hydrocarbon contamination while neither the backfill material or natural soils in Excavation #2 exhibited any signs of such contamination. During the excavation activities, perched water was encountered within the backfill material in Excavation #1. Once laboratory analysis of a sample of the water indicated acceptable levels of TPH and BTEX and the appropriate permits were obtained, the water was

pumped from the excavation directly to the Northeast Ohio Sewer District sanitary sewer system.

After all of the affected backfill material was removed from Excavation #1 and stockpiled on plastic and immediately after the new lube oil tank was removed from Excavation #2, samples were collected throughout the resulting tank pits for confirmatory field screening. The three samples from each excavation which contained the greatest potential for petroleum hydrocarbon contamination were submitted to the laboratory for confirmatory analysis. The laboratory reported that all three samples from each excavation contained TPH and BTEX concentration below the PCS policy established by the OEPA which were used for comparison purposes for this project. Based on these results and the current conditions at the site, no further action is anticipated at this time.

Approximately 100 cubic yards of affected backfill material were removed from Excavation #1 and stockpiled on the southern portion of the property. A sample of the affected material has been collected and submitted to the laboratory for waste characterization analysis. The results of the analysis have been received and the chosen treatment facility has agreed to accept the affected material. Costs for completing the treatment activities have been forwarded to Sysco and we are currently awaiting for their approval to proceed.

APPENDIX A  
BUSTR NOTIFICATION LETTER AND UST REMOVAL PERMITS



June 1, 1992

Release Prevention Manager  
Division of State Fire Marshal  
Bureau of Underground Storage Tank Regulations  
8895 East Main Street  
P.O. Box 687  
Reynoldsburg, Ohio 43068-0687

Re: Underground Storage Tank  
Closure Notification  
Sysco Food Services of Cleveland, Inc.  
5800 Grant Avenue  
Cuyahoga Heights, Ohio

Dear Release Prevention Manager,

In accordance with your requirements and on behalf of Sysco Food Services of Cleveland, Inc. (Sysco), August Mack Environmental, Inc. (AME) is providing 30 day notification of our intent to permanently close three underground storage tanks (USTs) at the above referenced location. The three USTs which will undergo permanent closure are one 12,000 gallon capacity diesel fuel tank, one 10,000 gallon capacity diesel fuel tank and one 500 gallon capacity new lube oil tank. According to Sysco, the vessels have been registered with the State Fire Marshal. In addition to closing the three above mentioned USTs, one 500 gallon capacity used lube oil above ground storage tank will also be closed. Although there are currently no established closure procedures for above ground storage tanks, it will be closed generally following the same procedures as the USTs.

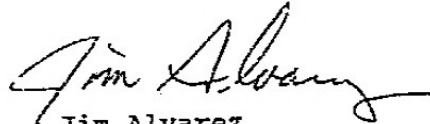
8021 CASTLETON ROAD  
INDIANAPOLIS INDIANA 46250  
TEL: (317) 579-7400  
FAX: (317) 579-7410

4353 TULLER ROAD, SUITE H  
DUBLIN, OHIO 43017  
TEL: (614) 798-9922  
FAX: (614) 798-9927



We are pleased to provide you with this 30 day notification of our intent to permanently close the aforementioned USTs. If you have any questions regarding this submittal, or require additional information, please do not hesitate to contact us.

Sincerely,



Jim Alvarez  
Project Geologist

VILLAGE OF CUYAHOGA HEIGHTS  
FIRE PREVENTION BUREAU  
5480 GRANT AVENUE  
CUYAHOGA HEIGHTS, OHIO 44125  
641-6799

APPLICATION FOR PERMIT

Date 6-29-92

Application is hereby made by the undersigned to:

<sup>REMOVE</sup>  
Install (3) THREE UNDERGROUND FIBERGLASS TANKS

Operate \_\_\_\_\_

In or on the premises at SYSCO FOODS 5800 GRANT AVE. CUYAHOGA HTS. OHIO

The following describes the equipment, materials or processes to be used:

(1) ONE 12000 GAL. DIESEL OIL TANK

(1) ONE 10000 GAL. DIESEL OIL TANK

(1) ONE 500 GAL. NEW LUBE OIL TANK

We agree to conform to all the ordinances of the Village of Cuyahoga Heights, the State Fire Code and the National Standards as adopted by the Village of Cuyahoga Heights present and future.

Complete plans must be filed when requested by the Fire Prevention Bureau.

Robert A Beach 11841 DANMAR RD. SAGAMORE HEIGHTS OH. 44125  
Signature of Applicant Home Address Phone

\_\_\_\_\_  
Signature of Owner Home Address Phone

FIRE PREVENTION BUREAU USE:

TANK USE REMOVAL AND CLOSURE

Type of permit requested

Approved by A/C Martin Mall Date 6/30/92

Disapproved by \_\_\_\_\_ Permit number 271 Issued \_\_\_\_\_ Date \_\_\_\_\_

Permit fee \$ \_\_\_\_\_  
Remarks: MUST FOLLOW APPROVED METHODS AND PROCEDURES AND DOCUMENT FINAL DESTINATION  
OF ALL TANKS ALL SOIL AND LIQUID TESTS SHALL BE VIEWED BY FIRE DEPT.

# PERMIT

## VILLAGE OF CUYAHOGA HEIGHTS FIRE PREVENTION BUREAU

Number 221

Date JUNE 30, 1992

TO WHOM IT MAY CONCERN:

By virtue of the provisions of the Ordinances of the Village of Cuyahoga Heights

SYSCO FOODS 5800 GRANT AVE. CUY. HTS. conducting a  
(Name of Concern) (Location)

FOOD DISTRIBUTION CO. having made application in due form, as the conditions, surroundings  
(Type of Business)

and arrangements are, in my opinion, such that the intent of the ordinances can be observed. Authority is hereby given and this  
PERMIT is GRANTED for REMOVAL AND CLOSURE OF TWO SITES FOR UST 1 12,000 GAL DIESEL 1 10,000 GAL

DIESEL 1 500 GAL NEW LUBE TANK

This PERMIT is issued and accepted on condition that all Ordinances of the Village of Cuyahoga Heights now adopted, or that may hereafter be adopted, shall be complied with.

This Permit Valid until REVOKED

This permit does not take the place of any License required by law and is not transferable. Any change in the use or occupancy of premises shall require a new permit.

*Richard Smith*  
(Chief of Fire Department)

*Martine Mahk*  
(Fire Prevention Officer)

THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES MENTIONED ABOVE

APPENDIX B  
RESIDUAL PRODUCT REMOVAL RECEIPTS

EMPACO EQUIPMENT CORPORATION  
 2958 Brecksville Road P.O. Box 535  
 RICHFIELD, OHIO 44286-0535  
 (216) 659-9393

DATE: 7-21-92

TO: *RP*

FROM: *From Sysco Food*

QTY	PART NO.	ARTICLES	PRICE	AMOUNT
530	3x1	Diesel Fuel		
		From Sysco Foods		
		To Empaco Equip Corp.		

RECEIVED BY: *Ron Porskisen*

TOTAL: \_\_\_\_\_

8975  
 All claims and returned goods  
 MUST be accompanied by this bill  
 PRODUCT 111  
 Thank You

EMPACO EQUIPMENT CORPORATION  
 2958 Brecksville Road P.O. Box 535  
 RICHFIELD, OHIO 44286-0535  
 (216) 659-9393

DATE: 7-21-92

TO: *RP*

FROM: *From Sysco Food*

QTY	PART NO.	ARTICLES	PRICE	AMOUNT
530		Gallon Diesel Fuel		
		From Sysco Food		
		To Empaco Equip		

RECEIVED BY: *Ron Porskisen*

TOTAL: \_\_\_\_\_

8987  
 All claims and returned goods  
 MUST be accompanied by this bill  
 PRODUCT 111  
 Thank You

00002559

APPENDIX C  
UST DISPOSAL DOCUMENTATION

00002560

# DISPOSAL TICKET

**INLAND/SOLON SANITARY LANDFILL**  
6705 RICHMOND ROAD  
GLENWILLOW, OHIO 44139  
(216) 439-5500

*Cuy. County*      *GRANT AVE*  
*SYSCO FORTS*      *CLEVE, OH,*

Date: 7/22/92 10:45 AM  
EMPACO EQUIPMENT  
PO BOX 535  
RICHFIELD OH 44296

Ticket: 023724  
Industrial solid was  
Source: SUMMIT CTY

Driver:

Truck: 16

Description	Quantity	Rate	Amount
Tipping fee	8.42 TON		
GW 49620 TH 32780			
State Imposed Disposal Fee			
District Disposal Fee			
Township Disposal Fee			

TOTAL TAXES & SURCHARGES



Signature

Total

060003-14

APPENDIX E  
HEADSPACE ANALYSIS PROCEDURES

00002562





## HEADSPACE ANALYSIS PROCEDURES

Following collection, each soil sample was screened for the presence of total combustible vapors (TCVs) by headspace analysis in the field. This field screening is typically used to determine if elevated levels of petroleum hydrocarbons are present in the samples. In this situation, a portable Gastechtor Model 1314 combustible vapor monitor was used to measure the concentration of TCVs emitted from the samples. The Gastechtor is capable of measuring TCVs in air at concentrations ranging from about 10 to 500 parts per million (ppm). It should be noted that headspace analysis is used for comparative purposes only and that TCVs recorded in the field do not indicate actual total petroleum hydrocarbon (TPH) concentrations reported by laboratory analyses.

In order to prepare the sample for headspace analysis, a portion of the sample was placed in a 500 milliliter (ml) glass sample container until it was three quarters full and the container was sealed with aluminum foil and capped. Following placement in the sample container, the concentration of TCVs within the headspace above the sample was allowed to equilibrate for ten minutes. The TCV monitoring probe was

then inserted through the aluminum foil seal into the sample container and the maximum instrument response was recorded.

APPENDIX F  
LABORATORY RESULTS FOR ACCUMULATED WATER  
AND DISCHARGE PERMIT

# ADVANCED ANALYTICS LABORATORIES

1445 SUMMIT STREET  
COLUMBUS, OHIO 43201  
(614) 299-9922

Analysis & Testing - Quality Control Programs - Research & Development

July 22, 1992

August Mack Environmental  
670 Lakeview Plaza Blvd Suite B  
Worthington, OH 43085  
ATTN: Jeff LaBaw

## ANALYTICAL REPORT

PROJECT #: 4696-00  
AAL SAMPLE #: 76212 - 76212  
EPA APPROVAL #: 4043  
CLIENT PROJECT : Sysco / Cuyahoga Hts.

DATE RECEIVED: 7/22/92  
DATE ANALYZED: 7/22/92  
DATE REPORTED: 7/22/92

### TEST RESULTS

Sample No.:	76212	
Client ID.:	WTR	
Component	liquid	D.L.
TPH(mg/l)	< 1.0(tr)	1.0
Benzene(mg/l)	< 0.002	0.002
Toluene(mg/l)	0.006	0.002
Ethyl Benzene(mg/l)	0.004	0.002
Xylene(mg/l)	0.018	0.002

Methodology: BTEX by SW-846 3810 extraction, 8020/602 analysis.  
TPH by SW-846 Method 9070 extraction, 418.1 analysis.

Respectfully submitted,

L. Eve Karnitis, Chemist



0021 Cassillon Rd.  
 Indianapolis, IN 46250  
 (317) 520-2200 (317) 798-9922  
 FAX (317) 579-7410 (317) 798-9927

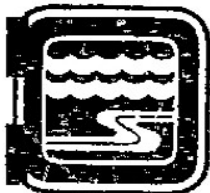
# Chain of Custody

Project No. 92014.11	Project Name Sysco / Cuyahoga Hts	Vapor Tests TPV TCV Circle One & List Value	Test Parameters																	
Sample: (Signature) <i>Jay Christman</i>	Sample Location & Type (Soil, Water, Waste) Tank Excavation (water)	TPH <input checked="" type="checkbox"/>	BTEX <input checked="" type="checkbox"/>	VOC <input checked="" type="checkbox"/>	HM (8 RCRA) <input checked="" type="checkbox"/>	TCLP <input checked="" type="checkbox"/>														
Sample Date 7/21	Time P.M.																			

Sketch	Remarks 24 Hrs Rush or Sooner. Per Eve. Water Samples are 1st. Priority. Need Results Today if possible	Test TPH BTEX VOC HM (8 RCRA) TCLP	Method 418.1 8030	Sample ID (907)
--------	--	---	-------------------------	--------------------

Relinquished By: (Signature) Date/Time <i>Jay Christman</i> 7/21/92 7:30	Received by: (Signature) Date/Time <i>James Almer</i> 7/21/92	Relinquished By: (Signature) Date/Time <i>James Almer</i> 7/22/92 9:50	Received by: (Signature) Date/Time <i>Kelly K. Ford</i> 7/22/92 9:53A
---	--	---	--

# UST Temporary Discharge Permit



**NORTHEAST OHIO REGIONAL SEWER DISTRICT**  
 Water Quality and Industrial Surveillance  
 4747 EAST 49TH STREET  
 CUYAHOGA HEIGHTS, OHIO 44125-1011  
 (216) 641-6000

Permit No. **Nº 1996**

Date of Application: **7-23-92**

Facility Name: Sysco Corporation Facility Contact: Darruk Hersey

Facility Location: 5800 Grant Avenue Cuyahoga \_\_\_\_\_ \_\_\_\_\_  
Address City Zip Phone

Source of Wastewater:  Tank Cavity/Pit Water  Recovery Well/Test Borings  
 Tank Pipe Integrity Test Water (Hydrostatic Testing)  Aqueous Tank Contents  
 Other: \_\_\_\_\_

Contents or Former Contents of Tanks (list all contents from all tanks located in cavity):  
2 Diesel Tanks

Expected Volume of Wastewater: 1000 gallons Expected Date of Discharge: 7-31-92 Expected Time of Discharge: \_\_\_\_\_ a.m. p.m.

Company Responsible for Discharge: August Mack Environmental/Sysco

Person Responsible for Overseeing Project: Greg Christensen (317) 571-1400  
Name Phone

Chemical Parameters Tested For:  BTEX (Benzene, Toluene, Ethylbenzene, Xylene)  Other: \_\_\_\_\_  
 Lead  TPH (Total Petroleum Hydrocarbons)

Are Analyses Attached  Yes  No

*The Acceptance of this permit does not waive any State, Federal or Local Regulations.  
 This permit applicable to the sanitary sewer system within NEORS's jurisdiction.*

**This section to be completed by WQIS personnel**

Permit Good for Period of \_\_\_\_\_ to \_\_\_\_\_ (not to exceed one year)

Pretreatment Required:  Yes  No — If Yes, Type:  Separator  Activated Carbon  Other: \_\_\_\_\_

Additional Analyses Required  Yes  No  
 If Yes What Parameters? \_\_\_\_\_

Discharge Approved:  Yes  No Fee Paid:  Yes  No Additional Billing Required:  Yes  No

Approved: \_\_\_\_\_ Date: 7-23-92  
Name Title

**Detach and Remit to Director of Finance, NEORS**

Date: \_\_\_\_\_ Permit No.: **1996**

Fee Paid: \_\_\_\_\_  Check  Money Order

Authorizing Signature: \_\_\_\_\_

Permittee Signature: \_\_\_\_\_

APPENDIX G  
TCV CONCENTRATIONS



TCV Concentrations  
(ppm)

Excavation Area #1

<u>Sample I.D.</u>	<u>Concentration</u>
1	10
2	10
3 (EX-1-3)	40
4	20
5	20
6	10
7	50
10	30
11	10
12 (EX-1-1)	20
13	10
14	20
15	10
16 (EX-1-2)	20
17	10
18	10
19	20
20	20
21	10
22	NR
23	20

Excavation Area #2

<u>Sample I.D.</u>	<u>Concentration</u>
1	20
2	20
3 (EX-2-1)	30
4 (EX-2-2)	20
5 (EX-2-1)	20

Note : NR = No TCV concentration registered on the Gastehtor  
Sample I.D. corresponds to Figure 3

APPENDIX H  
LABORATORY RESULTS

# ADVANCED ANALYTICS LABORATORIES

1445 SUMMIT STREET  
COLUMBUS, OHIO 43201  
(614) 289-8922

Analysis & Testing - Quality Control Programs - Research & Development

July 30, 1992

August Mack Environmental  
670 Lakeview Plaza Blvd Suite B  
Worthington, OH 43085  
ATTN: Jeff LaBaw

## ANALYTICAL REPORT

PROJECT #: 4727-00  
AAL SAMPLE #: 76309 - 76311  
EPA APPROVAL #: 4043  
CLIENT PROJECT : 92014.11

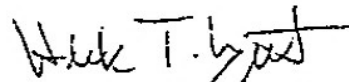
DATE RECEIVED: 7/29/92  
DATE ANALYZED: 7/30/92  
DATE REPORTED: 7/30/92

### TEST RESULTS

Sample No.:	76309	76310	76311	
Client ID.:	EX-1-1	EX-1-2	EX-1-3	
	SOIL	SOIL	SOIL	D.L.
Component				
TPH(mg/kg)	< 1.0(tr)	3.4	2.0	1.0
Benzene(mg/kg)	< 0.002	< 0.002	< 0.002	0.002
Toluene(mg/kg)	< 0.002	< 0.002	< 0.002	0.002
Ethyl Benzene(mg/kg)	< 0.002	< 0.002	< 0.002	0.002
Xylene(mg/kg)	< 0.002	< 0.002	0.003	0.002

Methodology: BTEX by SW 846 3810 extraction, 8020 analysis.  
TPH by SW-846 Method 9071 extraction, 418.1 analysis.

Respectfully submitted,



Alek T. Siitam, ChE

# ADVANCED ANALYTICS LABORATORIES

1445 SUMMIT STREET  
COLUMBUS, OHIO 43201  
(614) 299-9922

Analysis & Testing - Quality Control Programs - Research & Development

July 30, 1992

August Mack Environmental  
670 Lakeview Plaza Blvd Suite B  
Worthington, OH 43085  
ATTN: Jeff LaBaw

## ANALYTICAL REPORT

PROJECT #: 4728-00  
AAL SAMPLE #: 76312 - 76314  
EPA APPROVAL #: 4043  
CLIENT PROJECT : 92014.11

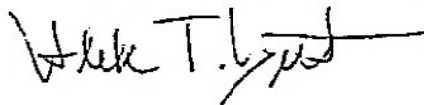
DATE RECEIVED: 7/29/92  
DATE ANALYZED: 7/30/92  
DATE REPORTED: 7/30/92

## TEST RESULTS

Sample No.:	76312	76313	76314	
Client ID.:	EX-2-1	EX-2-2	EX-2-3	
Component	SOIL	SOIL	SOIL	D.L.
TPH(mg/kg)	< 1.0(tr)	< 1.0	4.2	1.0
Benzene(mg/kg)	< 0.002	< 0.002	< 0.002	0.002
Toluene(mg/kg)	< 0.002	< 0.002	< 0.002	0.002
Ethyl Benzene(mg/kg)	< 0.002	< 0.002	< 0.002	0.002
Xylene(mg/kg)	0.004	< 0.002	< 0.002	0.002

Methodology: BTEX by SW 846 3810 extraction, 8020 analysis.  
TPH by SW-846 Method 9071 extraction, 418.1 analysis.

Respectfully submitted,

  
Alek T. Siitam, ChE



3021 Castleton Rd.  
Indianapolis, IN 46250  
(317) 579-7400  
FAX (317) 579-7410

# Chain of Custody

Project No.	Project Name	Vapor Tests		Test Parameters														
		TPV	TCV	TPH	BTEX	VOC	HM (8 RCRA)	TCLP										
4201411	Tank Assessment																	
Sampler: (Signature) <i>Jim A. Hunt</i>																		
Sample Number	Date	Time	Sample Location & Type (Soil, Water, Waste)															
	7/21/92		EX-2-1 BASE (A)															
	7/21/92		EX-2-2 EAST WALL (B)															
	7/21/92		EX-2-3 WEST WALL (B)															

Sketch	Remarks	Test	Method
EX-2-3	Regular Turnaround	TPH	4121
EX-2-2		BTEX	56020
EX-2-1		VOC	
		HM (8 RCRA)	
		TCLP	

Relinquished By: (Signature) <i>Jim A. Hunt</i>	Date/Time	7/21/92	7:30	Relinquished By: (Signature)	Date	Time
Relinquished By: (Signature) <i>Jim A. Hunt</i>	Date/Time	7/21/92	11:00	Receiver or Laboratory by: (Signature)	Date	Time
				11:00A	7/29/92	



3021 Castleton Rd.  
Indianapolis, IN 46250  
(317) 579-7400  
FAX (317) 579-7410

# Chain of Custody

Project No.	Project Name	Vapor Tests		Test Parameters																
92014.11	TANK ASSESSMENT	TPV	TCV	TPH	BTEX	VOC	HM (8 RCRA)	TCLP												
Samplers: (Signature)	Dug A. Chatterjee																			
Sample Number	Date	Time	Sample Location & Type (Soil, Water, Waste)	TPV	TCV	TPH	BTEX	VOC	HM (8 RCRA)	TCLP										
	7/23		EX-1-1 South Base			✓	✓													
	7/23		EX-1-2 SOUTH WALL			✓	✓													
	7/23		EX-1-3 NORTH WALL			✓	✓													

Sketch	Remarks	Test	Method
	Regular Turnaround	TPH	418.1
		BTEX	SD2D
		VOC	
		HM (8 RCRA)	
		TCLP	

Relinquished By: (Signature)	Date/Time	Relinquished By: (Signature)	Date/Time
Dug A. Chatterjee	7/24/02 11:00	Jim Alamo	7/27/02 7:30
Dug A. Chatterjee	7/28/02 11:00	Kelly K. Faust	7/29/02 11A

APPENDIX I  
DENSITY TESTING RESULTS



# Professional Service Industries, Inc.

## REPORT OF FIELD COMPACTION TESTS

TESTED FOR: Empaco Equipment  
 P.O. Box 535  
 2958 Brecksville Road  
 Richfield, OH 44286

PROJECT: Sysco

DATE: August 18, 1992

OUR REPORT NO 141-20111-1 (page 1 of 2)

### TEST DATA:

TEST NO	DATE	ELEV		SOL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
		DEPTH							
1	8-19-92	8"			119.0	10.9	109.9	92.3	1B
2	8-19-92	8"			119.0	7.5	111.2	93.4	1A
3	8-19-92	8"			119.0	8.2	104.2	87.6	1B
4	8-19-92	8"			119.0	9.7	103.7	87.1	1B
5	8-19-92	8"			119.0	14.1	110.3	91.7	1B
6	8-19-92	8"			119.0	9.0	120.0	100.8	1CA

### TEST LOCATION:

1	Southwest corner area.
2	10' south of northwest corner area.
3	North middle area.
4	Northeast corner area.
5	Center area.
6	Second test on southwest corner area.

NOTES DENSITIES SHOWN Lbs per cubic foot  
 WATER CONTENT Per Cent of dry weight  
 PERCENT COMPACTION Based on maximum dry density obtained on sample indicated by soil ID number

- 1 FILL MATERIAL
- 2 BACKFILL
- 3 BASE COURSE
- 4 SUBBASE
- 5 SOIL CEMENT
- 6 OTHER

A TEST RESULTS COMPLY WITH SPECIFICATIONS  
 B. TEST RESULTS DO NOT COMPLY WITH SPECIFICATIONS  
 C. TEST IS AFTER RECOMPACTION

REMARKS: 93% compaction required.

Note: The proctor valves used were obtained from the Pepsi project of Empaco's. These numbers were used at Empaco's request.

Respectfully submitted,  
 Professional Service Industries, Inc.  
 John Lindsey



## REPORT OF FIELD COMPACTION TESTS

TESTED FOR: Empaco Equipment  
 P.O. Box 535  
 2958 Brecksville Road  
 Richfield, OH 44286

PROJECT: Sysco

DATE: August 18, 1992

OUR REPORT NO. 141-20111-1 (page 2 of 2)

**TEST DATA:**

TEST	DATE	ELEV DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
7	8-18-92	8"		119.0	7.5	107.4	90.3	1CB
8	8-18-92	8"		119.0	8.1	107.6	90.4	1CB
9	8-18-92	8"		119.0	8.8	108.5	91.2	1CB
10	8-18-92	8"		119.0	9.0	111.9	94.0	1CA

**TEST LOCATION:**

7	Second test on north middle area.
	Third test on north middle area.
9	Second test on northeast corner area.
10	Third test on northeast corner area.

NOTES: DENSITIES SHOWN: Lbs per cubic foot  
 WATER CONTENT: Per Cent of dry weight  
 PERCENT COMPACTION: Based on maximum dry  
 density obtained on sample indicated by  
 soil ID number

**REMARKS:**

- \* 1 FILL MATERIAL
- 2 BACKFILL
- 3 BASE COURSE
- 4 SUBBASE
- 5 SOIL CEMENT
- 6 OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
- B. TEST RESULTS DO NOT COMPLY WITH SPECIFICATIONS
- C. TEST IS AFTER RECOMPACTION

Respectfully submitted,  
 Professional Service Industries, Inc.  
 John Lindsey



# Professional Service Industries, Inc.

## REPORT OF FIELD COMPACTION TESTS

TESTED FOR: Empaco Equipment  
 P.O. Box 535  
 2958 Brecksville Road  
 Richfield, OH 44286

PROJECT Sysco

DATE: August 19, 1992

OUR REPORT NO. 141-20111-2

### TEST DATA:

TEST NO	DATE	ELEV DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
1	8-19-92	6"		119.0	9.8	112.2	93.5	1A
2	8-19-92	6"		119.0	9.6	112.1	93.1	2A

TEST LOCATION: 3' below grade level.

1	10' south of north edge of excavation 1/2 of trench.
2	15' south of north edge of excavation 1/2 of trench.

NOTES: DENSITIES SHOWN Lbs per cubic foot  
 WATER CONTENT Per Cent of dry weight  
 PERCENT COMPACTION Based on maximum dry  
 density obtained on sample indicated by  
 soil ID number

- \* 1 FILL MATERIAL
- 2 BACKFILL
- 3 BASE COURSE
- 4 SUBBASE
- 5 SOIL CEMENT
- 6 OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
- B. TEST RESULTS DO NOT COMPLY WITH SPECIFICATIONS
- C. TEST IS AFTER RECOMPACTION

REMARKS: No compaction test run on north side  
 due to excessive soil deflection.

Respectfully submitted,  
 Professional Service Industries, Inc.  
 J. Shephard



# Professional Service Industries, Inc.

## REPORT OF FIELD COMPACTION TESTS

TESTED FOR: Empaco  
 P.O. Box 535  
 2958 Brecksville Road  
 Richfield, OH 44286

PROJECT Sysco

RECEIVED  
 AUG 23 1992

EMPAACO & ASSOCIATES

DATE August 20, 1992

OUR REPORT NO 141-20111-3

### TEST DATA:

TEST NO	DATE	ELEV DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
1	8-20-92	8"		119.0	12.5	106.8	89.7	2B
2	8-20-92	8"		119.0	8.1	111.7	93.9	2A
3	8-20-92	8"		119.0	8.5	107.8	90.6	2B
4	8-20-92	8"		119.0	8.4	108.9	91.5	2B
5	8-20-92	8"		119.0	8.2	104.4	87.7	2B
6	8-20-92	8"		119.0	8.7	106.7	89.7	2B

### TEST LOCATION:

1	Northwest corner area.
2	5' south of north middle.
3	5' south and 10' west of northeast corner.
4	Center
5	7' west of southeast corner.
6	20' east and 5' north of southwest corner.

NOTES: DENSITIES SHOWN lbs per cubic foot  
 WATER CONTENT Per Cent of dry weight  
 PERCENT COMPACTION Based on maximum dry  
 density obtained on sample indicated by  
 soil ID number

- \* 1 FILL MATERIAL
- 2 BACKFILL
- 3 BASE COURSE
- 4 SUBBASE
- 5 SOIL CEMENT
- 6 OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
- B. TEST RESULTS DO NOT COMPLY WITH SPECIFICATIONS
- C. TEST IS AFTER RECOMPACTION

### REMARKS:

Respectfully submitted,  
 Professional Service Industries, Inc  
 J. Lindsey

## REPORT OF FIELD COMPACTION TESTS

TESTED FOR: Empaco  
 P.O. Box 535  
 2958 Brecksville Road  
 Richfield, OH 44286

PROJECT: Sysco

RECEIVED  
 1992

DATE: August 20, 1992

OUR REPORT NO. 141-20111-3

**TEST DATA:**

TEST NO.	DATE	DEPTH	ELEV	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
7	8-20-92	8"			119.0	8.5	106.9	90.0	2B
8	8-20-92	8"			119.0	8.7	105.6	88.7	2B
9	8-20-92	8"			119.0	7.9	111.9	94.0	2A
10	8-20-92	8"			119.0	8.3	108.2	90.9	2B
11	8-20-92	8"			119.0	8.3	112.6	94.6	2A
12	8-20-92	8"			119.0	7.8	106.9	89.8	2B

**TEST LOCATION:**

7	Test location #3.
8	Test location #5.
9	Test location #4.
10	Test location #6.
11	Test location #3.
12	Test location #1.

NOTES: DENSITIES SHOWN: Lbs per cubic foot  
 WATER CONTENT: Per Cent of dry weight  
 PERCENT COMPACTION: Based on maximum dry density obtained on sample indicated by soil ID number

- 1. FILL MATERIAL
- 2. BACKFILL
- 3. BASE COURSE
- 4. SUBBASE
- 5. SOIL CEMENT
- 6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
- B. TEST RESULTS DO NOT COMPLY WITH SPECIFICATIONS
- C. TEST IS AFTER RECOMPACTION

**REMARKS:**

Respectfully submitted,  
 Professional Service Industries, Inc.  
 J. Lindsey

## REPORT OF FIELD COMPACTION TESTS

TESTED FOR: Empaco  
 P.O. Box 535  
 2958 Brecksville Road  
 Richfield, OH 44286

PROJECT: Sysco

RECEIVED  
 AUG 22 1992  
 02

DATE: August 20, 1992

OUR REPORT NO. 141-20111-3

**TEST DATA:**

TEST NO	DATE	ELEV		SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
		DEPTH							
13	8-20-92	8"			119.0	8.2	109.5	92.0	2B
14	8-20-92	8"			119.0	8.0	108.9	91.5	2B

**TEST LOCATION:**

13	Test location #5.
14	Test location #6.

NOTES: DENSITIES SHOWN: Lbs per cubic foot  
 WATER CONTENT: Per Cent of dry weight  
 PERCENT COMPACTION: Based on maximum dry density obtained on sample indicated by soil ID number

- 1 FILL MATERIAL
- 2 BACKFILL
- 3 BASE COURSE
- 4 SUBBASE
- 5 SOIL CEMENT
- 6 OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
- B. TEST RESULTS DO NOT COMPLY WITH SPECIFICATIONS
- C. TEST IS AFTER RECOMPACTION

REMARKS:

Respectfully submitted,  
 Professional Service Industries, Inc.  
 J. Lindsey

SUSPECTED RELEASE REPORT

REPORT # 118219391001F492

DATE: 7/2/92

[1] PERSON REPORTING THE RELEASE

TIME: 10:25

NAME: Jim Alvarez TITLE: Proj. Gobair PHONE: (614) 798-9922

AGENCY/COMPANY: August Mack Env. RELATION TO SITE: CJC

ADDRESS: 4353 Ste. H CITY: Dublin ST: ZIP: 43017

REMARKS: Tuller Rd.

[2] SUSPECTED RELEASE LOCATION

MULTIPLE SUSPECTED SOURCES? YES  NO  UNDETERMINED COUNTY: Cuyahoga

FACILITY: Riser Seaway Distribution FACILITY ID#: 181136

ADDRESS: 5800 Grant Avenue

CITY: Cuyahoga Hts ST: OH ZIP: 44105 PHONE: ( )

UST OWNER: Riser Seaway/ DISCO PHONE: (216) 587-0200

UST OPERATOR: CONTACT: DARRICK HELSEY PHONE: ( ) 11

REMARKS:

FIRE DEPT: Cuyahoga Hts CONTACT: PHONE: (216) 641-6799

[3] CONDITIONS LEADING TO REPORT OF SUSPECTED RELEASE (Check all that apply)

- Inventory control results indicate a release may have occurred.
- Testing, monitoring or sampling results indicate a release may have occurred.
- Unusual operating conditions observed (e.g., sudden drop in tank volume).
- Impacts noticed in area surrounding tank (e.g., vapors, well contaminated, run-off).
- Spill or overflow of petroleum in excess of 25 gallons.
- Soil/Groundwater contamination discovered during non-closure related investigation.
- Closure (or replacement) assessment results indicate that a release has occurred.

OTHER CONDITIONS: Overflow - no more than 5 gallons around the fill pipe. Removing 2 diesel tanks in good condition. Contaminated soil backfilled + stockpiled.

\*\*\*\*\*COMPLETE REVERSE SIDE\*\*\*\*\*

[10] REPORT DISPOSITION (Indicate actions taken on reverse side)

TAKEN BY: Murnieks EMERGENCY ACTION? YES  NO  BY: EPA OSPA ( )

COORD: Cheatem REPORT/ACTION APPROVED: DATE: 7/2/92

LOGGED BY: DATE: ENTERED BY: DATE: JUL 2 1992

CIRCLE STATUS: RPT SUS DIS CON ICA IGR PRIORITY: 1 (2) CLASS: A B C (D) LTF NON-LTF

ICC SAS SAC CAS GAP NFA

[4] RELEASE INFORMATION

DATE FIRST DETECTED: 7/22/92 TIME: P.M. EST. QUANTITY:
SUBSTANCE RELEASED/DETECTED: GASOLINE [ ] DIESEL FUEL [X] KEROSENE [ ] USED OIL [ ]
OTHER PETRO [ ] HAZ SUBST [ ] UNKNOWN [ ] EST. DURATION:
MEDIA EFFECTED (Check all that apply): [X] SOIL [ ] PAVEMENT [ ] BASEMENT [ ] SEWERS [ ]
GROUNDWATER [ ] SURFACE WATER [ ] OTHER:
LTF ELIGIBLE? [X] YES [ ] NO If no, why?:

[5] UST INFORMATION

FACILITY REGISTRATION CURRENT? [X] YES [ ] NO [ ] UNKNOWN (Attach USTR's for all facilities)
NUMBER OF TANKS: 2 RELEASE DETECTION METHOD:

Table with 11 columns: AGE, CAPACITY, -CONST.- MATERIAL, SUBSTANCE STORED, STATUS, AGE, CAPACITY, -CONST.- MATERIAL, SUBSTANCE STORED, STATUS. Handwritten entries include '948/2000', '12,000', '79', 'Diesel', 'Rem'.

PROBABLE LOCATION OF RELEASE: TANK NO. PIPE BETWEEN AND
PROBABLE CAUSE: overflow around fill pipe
OTHER POTENTIAL SOURCES AT THIS LOCATION:

[6] SITE/HAZARD INFORMATION

IMPORTANT SITE OR SURROUNDING AREA CHARACTERISTICS: Comm/resid
PROXIMITY TO DRINKING WATER SOURCES: city water
OTHER FIRE/WATER/HEALTH HAZARDS AT THE SITE: f.d.

[7] INITIAL RESPONSE ACTIONS BY OWNER/OPERATOR (Check all that apply)

- Release confirmation/Investigation [ ] Initial site investigation [ ]
Initial corrective action procedures [ ] Site/Assessment/Exposure Assessment [ ]
Free product removal [ ] Unknown/undetermined [ ]
Long term corrective action plan [ ] None [ ]

[8] WERE ANY OTHER AGENCIES NOTIFIED PRIOR TO BUSTR? (As Reported)

AGENCY: NAME: DATE: / /

[9] BUSTR ACTIONS TAKEN

7/22/92 10:45 Am Notified Cuyahoga Hts Fire Dept of this report.
Asstn. Ch. of Malek (216)-641-6999
7/22/92 11:00 Am Notified Cuyahoga County Health Dept of this report.
Shirley (216)-443-7500

CALLS TO: (D, LHD) LPW, ODH, OEPA/ER, OEPA/DFDW, OEPA/DGW, OTHER

# Appendix E

## Project Plan Sheets





NOTE:  
FINAL (PHASE 3) TRACK ALIGNMENTS ARE SHOWN  
FOR REFERENCE. SEE RAILROAD PLANS FOR  
DETAILS AND OTHER INTERMEDIATE ALIGNMENTS.

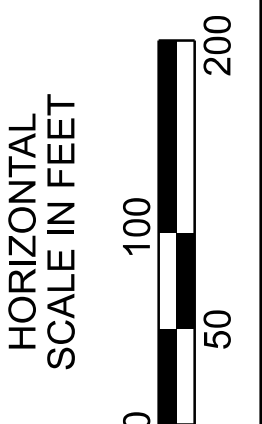
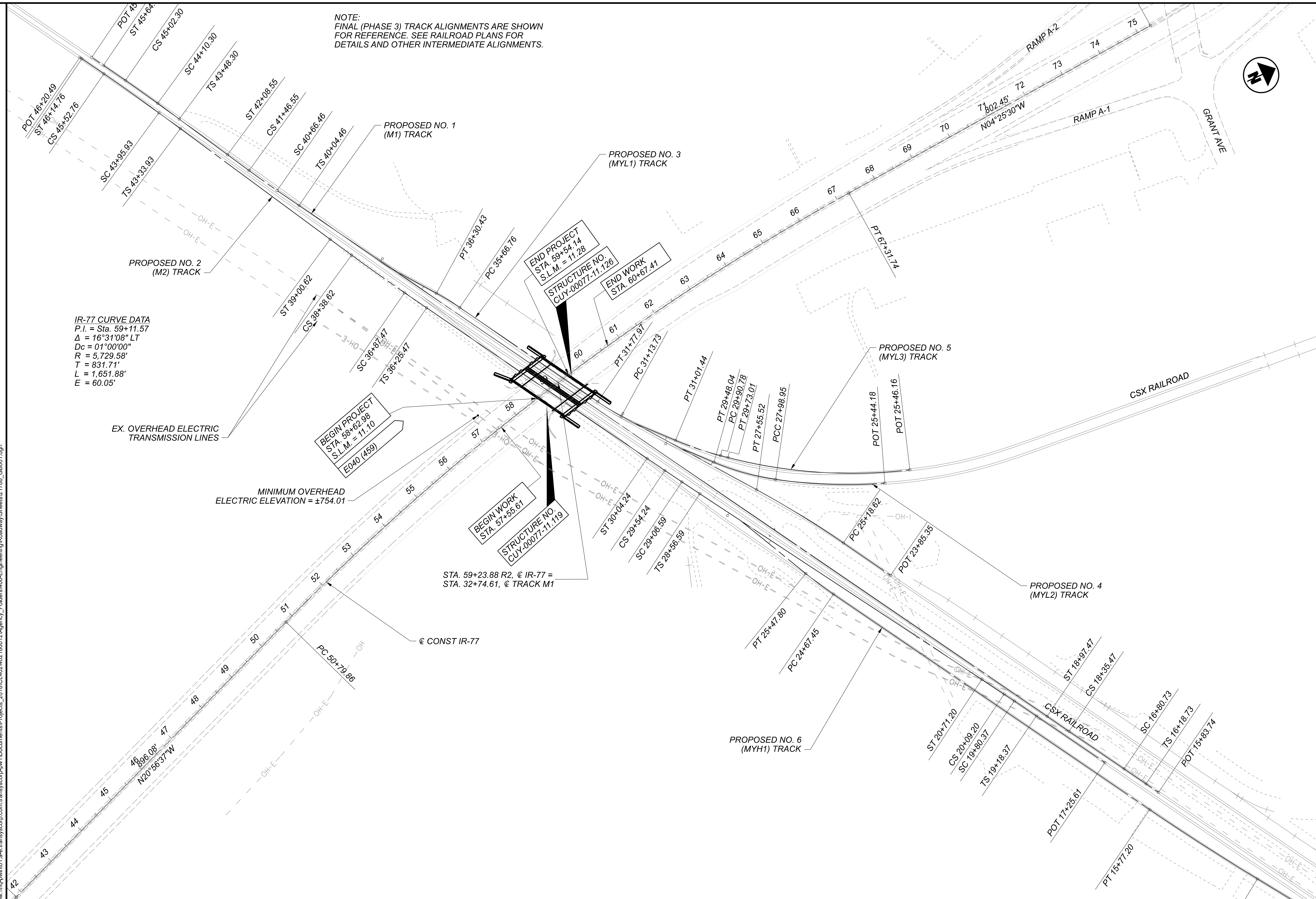
IR-77 CURVE DATA  
P.I. = Sta. 59+11.57  
 $\Delta = 16^{\circ}31'08''$  LT  
Dc =  $01^{\circ}00'00''$   
R = 5,729.58'  
T = 831.71'  
L = 1,651.88'  
E = 60.05'

EX. OVERHEAD ELECTRIC  
TRANSMISSION LINES

MINIMUM OVERHEAD  
ELECTRIC ELEVATION =  $\pm 754.01$

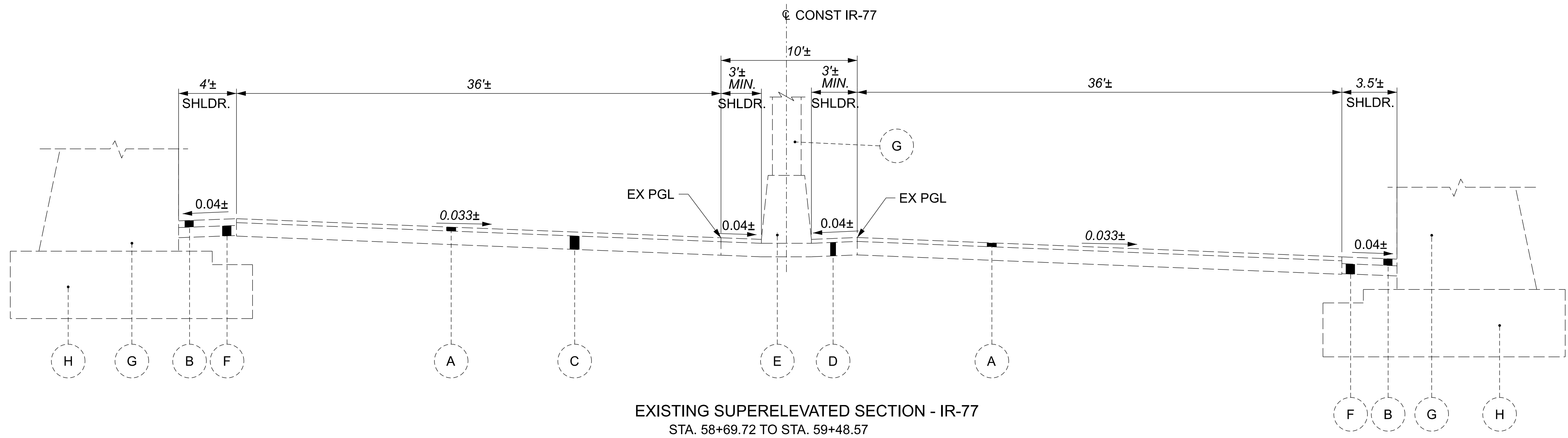
STA. 59+23.88 R2, @ IR-77 =  
STA. 32+74.61, @ TRACK M1

@ CONST IR-77

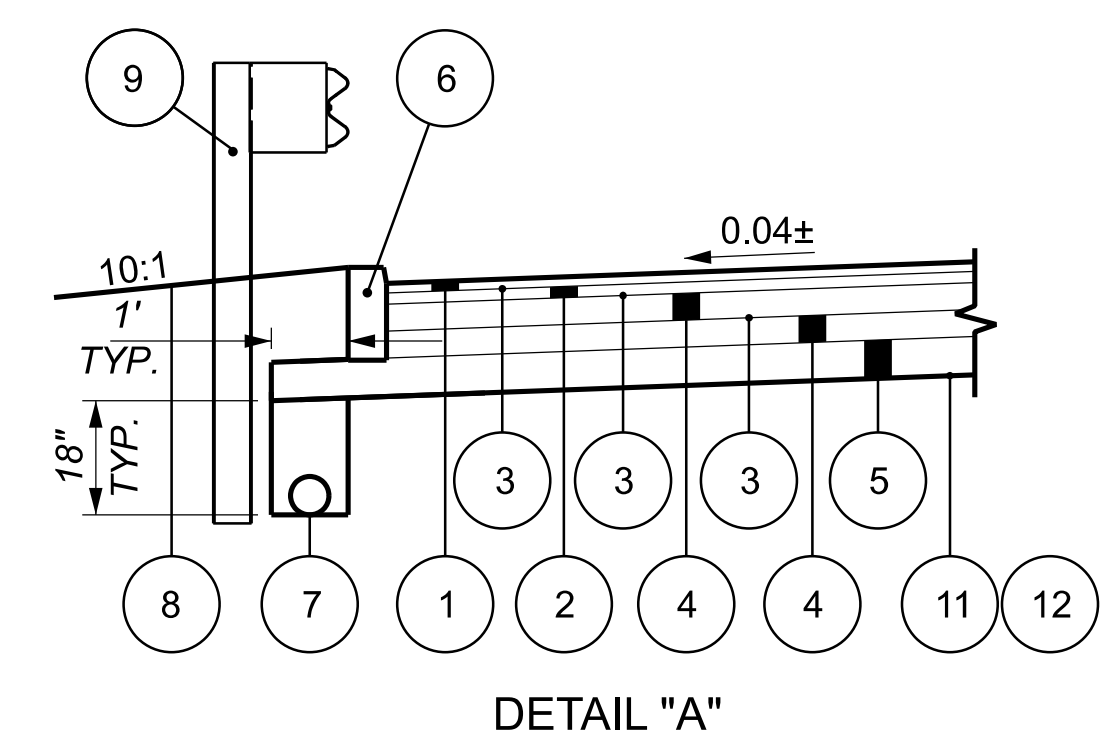


SCHEMATIC PLAN

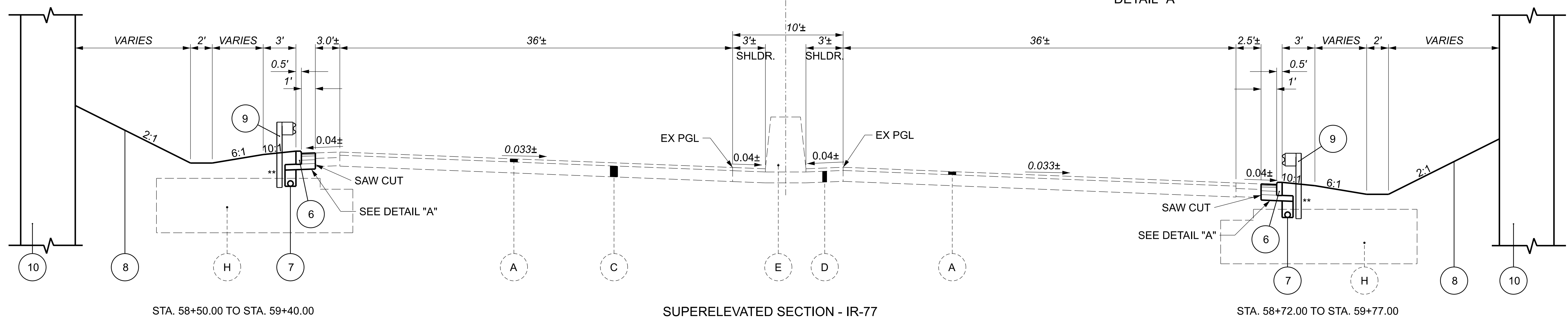
DESIGN AGENCY	
400 W. NATIONWIDE BLVD., STE 225 COLUMBUS, OHIO 43215	
DESIGNER	MSW
REVIEWER	NFF 02/15/22
PROJECT ID	21788
SHEET	TOTAL
P.02	P.74



EXISTING SUPERELEVATED SECTION - IR-77  
 STA. 58+69.72 TO STA. 59+48.57



\*\*USING NORMAL GUARDRAIL POST SPACING, MOUNT STEEL GUARDRAIL POSTS TO EXISTING FOOTING (TO REMAIN) WHERE FULL LENGTH POSTS CANNOT BE DRIVEN TO THE REQUIRED DEPTH. MOUNT POSTS ACCORDING TO THE FOOTING ANCHOR DETAIL ON MGS-1.1.



SUPERELEVATED SECTION - IR-77

EXISTING LEGEND

- |   |   |
|---|---|
| (A) 3.5" ASPHALT                            | (E) CONCRETE BARRIER WITH MEDIAN PIER           |
| (B) 6" ASPHALT                              | (F) 9" BASE                                     |
| (C) VARIES 8" TO 12" REINFORCED CONCRETE    | (G) EXISTING ABUTMENT WALL OR PIER COLUMN (TBR) |
| (D) PLAIN PORTLAND CEMENT CONCRETE PAVEMENT | (H) EXISTING FOOTING (TO REMAIN)                |

PROPOSED LEGEND

- |   |  |  |
|---|--|--|
| (1) ITEM 442 - 1.50" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447)      | (5) ITEM 304 - 6" AGGREGATE BASE           | (9) ITEM 606 - GUARDRAIL, TYPE 5               |
| (2) ITEM 861 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446) | (6) ITEM 609 - CURB, TYPE 4-C              | (10) ITEM 511 - CONCRETE ABUTMENT SUBSTRUCTURE |
| (3) ITEM 407 - NON-TRACKING TACK COAT   | (7) ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS | (11) ITEM 204 - SUBGRADE COMPACTION            |
| (4) ITEM 302 - 4.25" ASPHALT CONCRETE BASE, PG64-22                             | (8) ITEM 659 - SEEDING AND MULCHING        | (12) ITEM 204 - PROOF ROLLING                  |

DESIGN AGENCY  
  
 400 W. NATIONWIDE BLVD., STE 225  
 COLUMBUS, OHIO 43215

DESIGNER  
**MSW**

REVIEWER  
**NFF 02/15/22**

PROJECT ID  
**21788**

SHEET TOTAL  
**P.03 P.74**

**UTILITIES**

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

AT&T OHIO  
ATTN: ERIC JOHNSTON  
PHONE: 216-476-6141  
CELL: 412-680-9561  
EMAIL: ej1265@att.com

CEI FIRST ENERGY  
6896 MILLER RD, SUITE 101  
BRECKSVILLE, OH 44141  
ATTN: JOHN M. ZASSICK  
PHONE: 440-546-8706  
EMAIL: jmzassick@firstenergycorp.com

CENTURYLINK  
3801 ELM RD NE  
WARREN, OH 44483  
ATTN: DOUG HOLLOWAY  
PHONE: 216-906-6284  
EMAIL: relocations@lumen.com

CITY OF CLEVELAND WATER  
1201 LAKESIDE AVENUE  
CLEVELAND, OH 44114  
ATTN: FRED ROBERTS  
PHONE: 216-664-2444 EXT. 75590  
EMAIL: fred\_roberts@ClevelandWater.com  
rashheed\_warith@ClevelandWater.com

CUYAHOGA COUNTY DEPT OF PUBLIC WORKS  
2079 E 9TH STREET, 5TH FLOOR  
CLEVELAND, OH 44115  
ATTN: THOMAS P. SOTAK  
PHONE: 216-698-2534  
CELL: 216-701-1175  
EMAIL: tsotak@cuyahogacounty.us

CUYAHOGA COUNTY DEPT OF PUBLIC WORKS  
CUYAGOGA COUNTY PERMITS AND INSPECTION  
DEPARTMENT  
2501 HARVARD AVENUE  
NEWBURGH HEIGHTS, OH 44105  
ATTN: JUSTIN PATRONITE  
PHONE: 216-443-8209

DOMINION ENERGY OHIO  
320 SPRINGSIDE DRIVE, SUITE 320  
AKRON, OHIO 44333  
ATTN: MICAH J RISACHER @  
2ND FLOOR RELOCATION DESIGN  
PHONE: 330-664-2409  
EMAIL: Relocation@dominionenergy.com,  
Micah.J.Risacher@dominionenergy.com

DOMINION ENERGY TRANS  
329 SPRINGSIDE DRIVE, SUITE 320  
AKRON, OHIO 44333  
ATTN: GILBERT ABI SALLOUM  
PHONE: 330-351-7700  
EMAIL: GilbertAbiSalloom@usicllc.com

SPECTRUM (CHARTER COMMUNICATIONS)  
578 TERNES LN  
ELYRIA, OH 44035  
ATTN: JOSHUA CURTIS  
PHONE: 440-343-2146  
EMAIL: Joshua.Curtis@charter.com

VERIZON (MCI)  
12300 RIDGE ROAD  
NORTH ROYALTON, OHIO 44133  
ATTN: DAN ARZ  
OFFICE: 440-457-4832  
CELL: 216-570-9343  
EMAIL: daniel.arz@verizon.com

VILLAGE OF CUYAHOGA HEIGHTS  
VILLAGE ENGINEER  
7979 HUB PARKWAY  
VALLEY VIEW, OH 44125  
ATTN: PAUL DEY  
PHONE: 216-642-1130 EXT. 104  
EMAIL: pdey@dbohning.com

ZAYO FIBER SOLUTIONS  
4199 KINROSS LAKES PARKWAY, SUITE 10  
RICHFIELD, OH 44286  
ATTN: DAVE GALUSKA  
PHONE: 234-281-0025  
EMAIL: dave.galuska@zayo.com

**UTILITIES**

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

**SURVEYING PARAMETERS**

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET P.2 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

**PROJECT CONTROL**

POSITIONING METHOD: GNSS, ODOT VRS/CORS  
MONUMENT TYPE: TYPE B (3.4" & 5/8" IRON PINS)

**VERTICAL POSITIONING**

ORTHOMETRIC HEIGHT DATUM: NAVD88  
GEOID: GEIOD 12B

**HORIZONTAL POSITIONING**

REFERENCE FRAME: NAD83 (2011)  
ELLIPSOID: GRS80  
MAP PROJECTION: LAMBERT CONFORMAL CONIC  
COORDINATE SYSTEM: OHIO STATE PLANE, NORTH ZONE  
COMBINED SCALE FACTOR: 0.999933365 (POINT GS16)  
(P.A.F. 1.000066639)

ORIGIN OF COORDINATE SYSTEM: 0,0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

**WORK LIMITS**

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

**CLEARING AND GRUBBING**

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

**FENCE LENGTHS**

THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE IN ACCORDANCE WITH ITEM 607.

**ITEM 204 - PROOF ROLLING**

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING. SEE PLAN SHEET NO. \_\_\_\_ FOR ADDITIONAL INFORMATION.

ITEM 204 - PROOF ROLLING \_\_\_\_\_ HOUR.

**CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL**

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

**ENDANGERED BAT HABITAT REMOVAL**

THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT, AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT (ESA). FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS: A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK 3 INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

**EXISTING PLANS**

EXISTING PLANS ENTITLED CUY-77-9.97 (1941), CUY-77-10.56 (1974), CUY-77-10.39 (1990), AND CUY-77-11.43/12.68 (2004) MAY BE INSPECTED IN THE ODOT DISTRICT 12 OFFICE IN GARFIELD HEIGHTS, OHIO.

**SEEDING AND MULCHING**

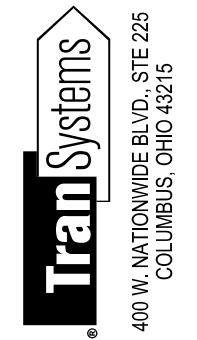
THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SOIL ANALYSIS TEST	_____	EACH
659, TOPSOIL	_____	CU. YD.
659, SEEDING AND MULCHING	_____	SQ. YD.
659, REPAIR SEEDING AND MULCHING	_____	SQ. YD.
659, INTER-SEEDING	_____	SQ. YD.
659, COMMERCIAL FERTILIZER	_____	TON
659, LIME	_____	ACRES
659, WATER	_____	M. GAL.
659, MOWING	_____	M. SQ.FT.

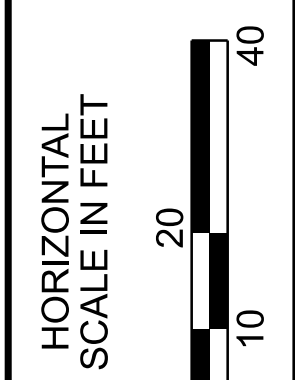
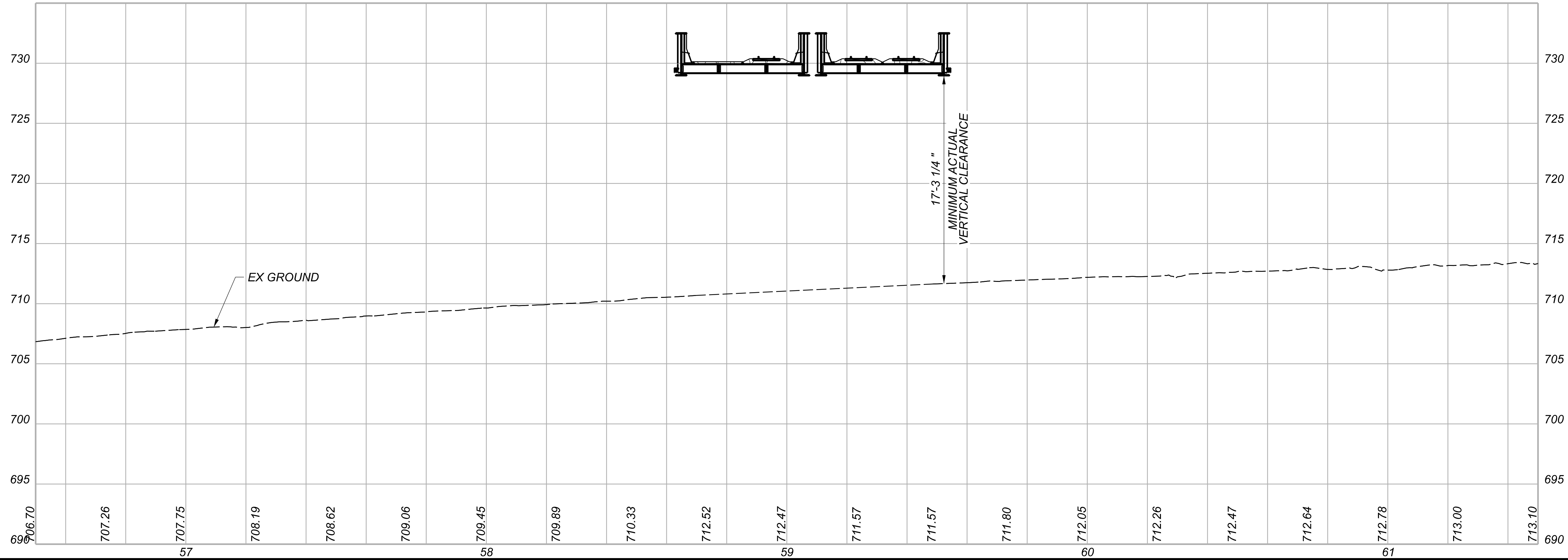
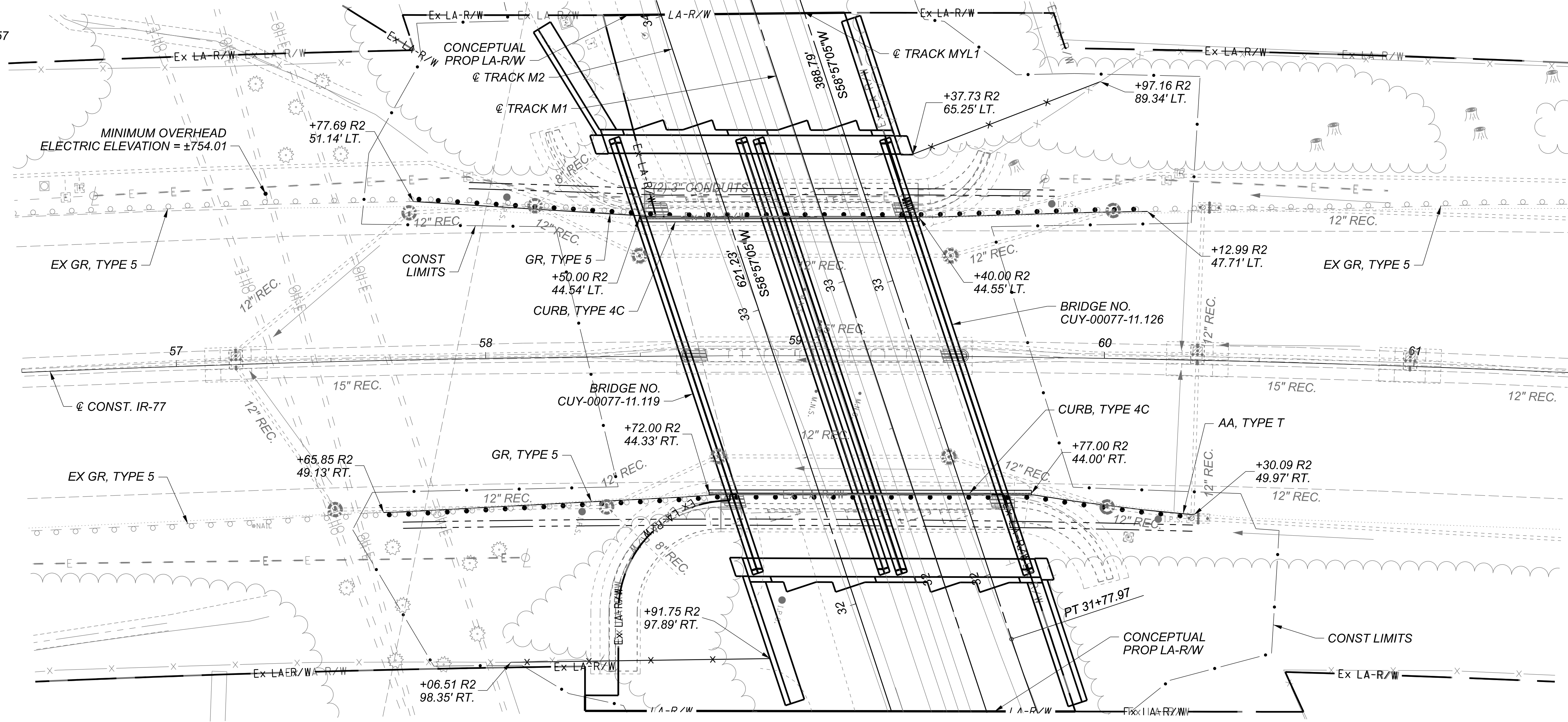
SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

**ROUNDING**

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLY TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.



**CURVE DATA**  
 P.I. = Sta. 59+11.57  
 $\Delta = 16^\circ 31' 08''$  LT  
 $D_c = 01^\circ 00' 00''$   
 $R = 5,729.58'$   
 $T = 831.71'$   
 $L = 1,651.88'$   
 $E = 60.05'$



**PLAN AND PROFILE - IR-77**  
**STA 56+50 TO STA 61+50**

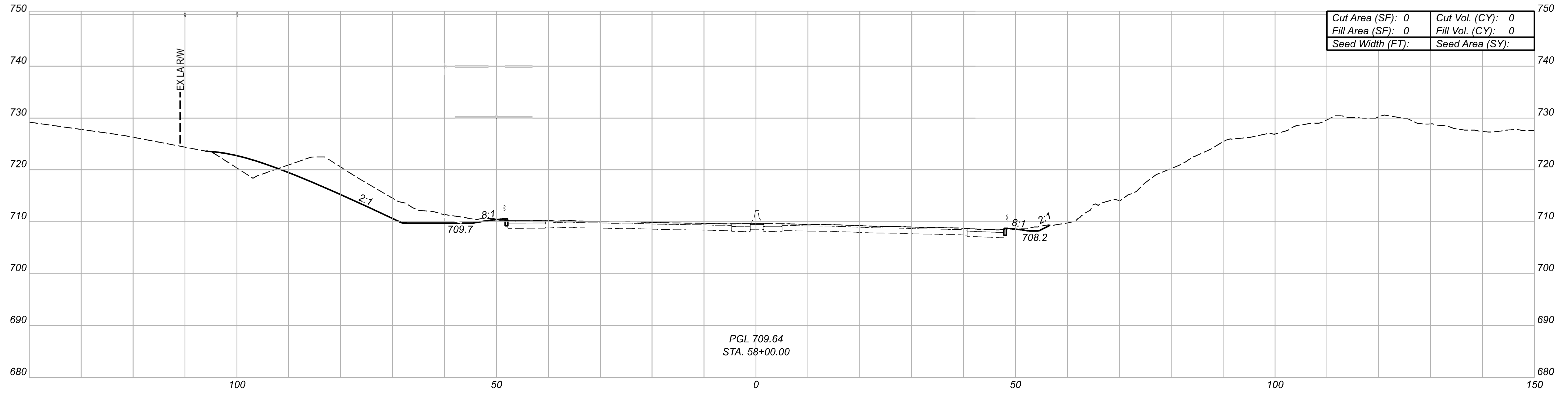
DESIGN AGENCY  
  
 400 W. NATIONWIDE BLDG., STE 225  
 COLUMBUS, OHIO 43215

DESIGNER  
**MSW**

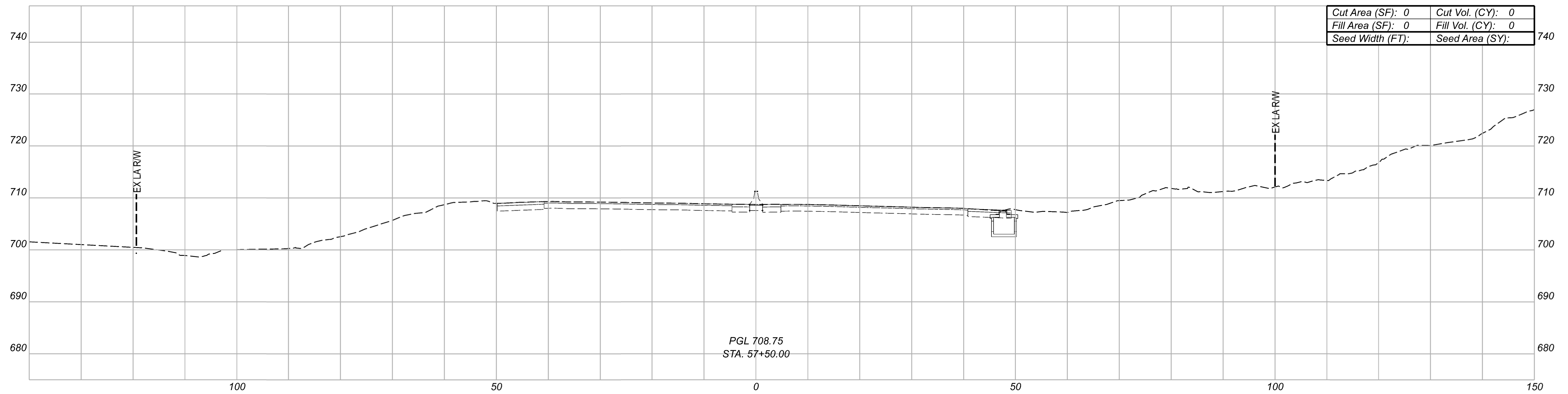
REVIEWER  
**NFF 02/15/22**

PROJECT ID  
**21788**

SHEET TOTAL  
 P.13 | P.74



PGL 709.64  
STA. 58+00.00



PGL 708.75  
STA. 57+50.00

CROSS SECTIONS - IR-77  
STA. 57+50.00 TO STA. 58+00.00



DESIGNER  
MSW

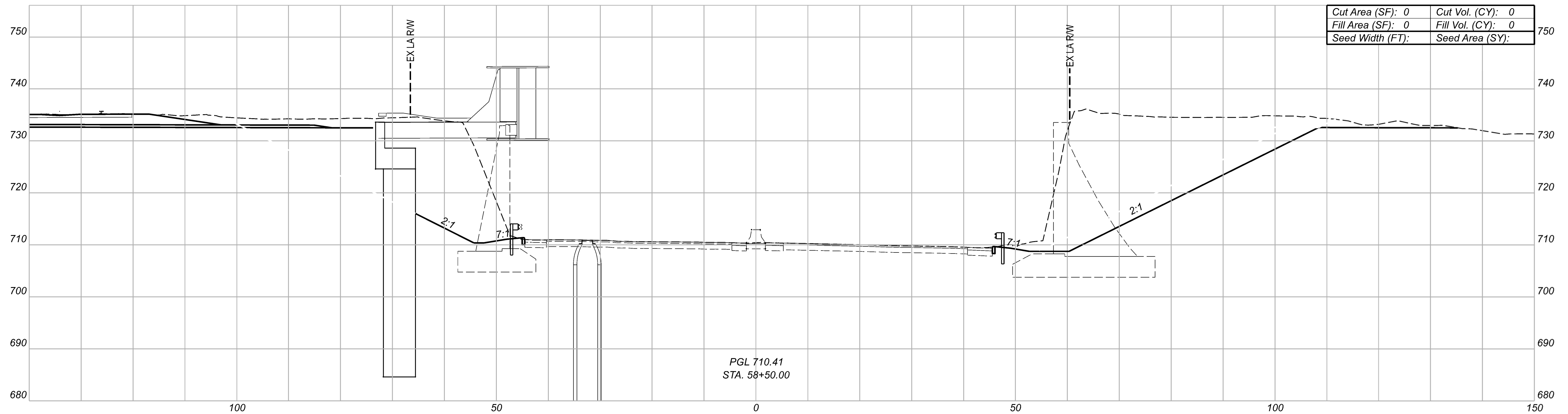
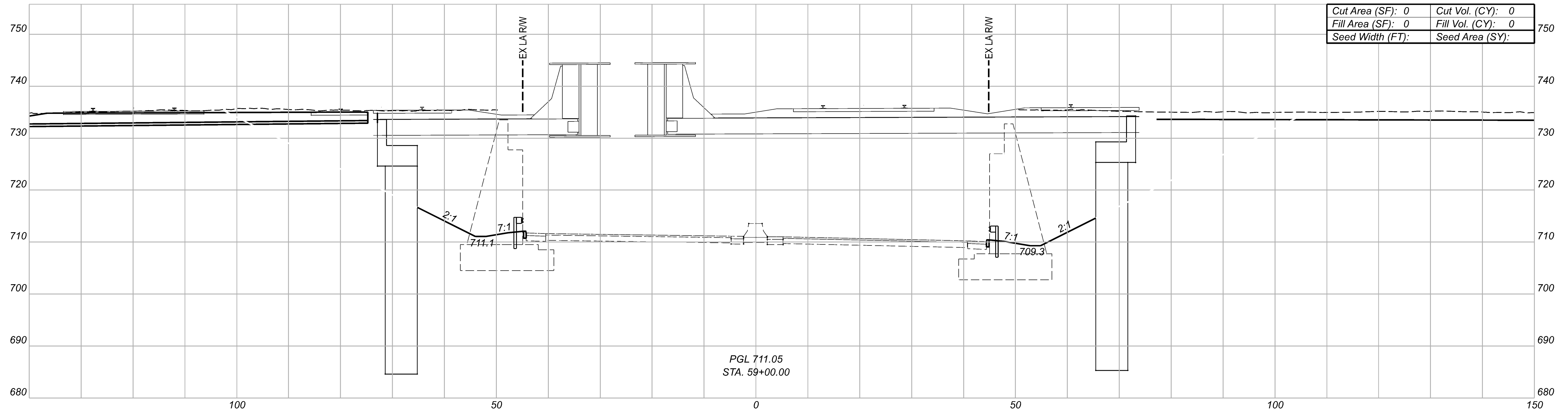
REVIEWER

NFF 02/15/22

PROJECT ID

21788

Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
.	.	.	P.14	P.74



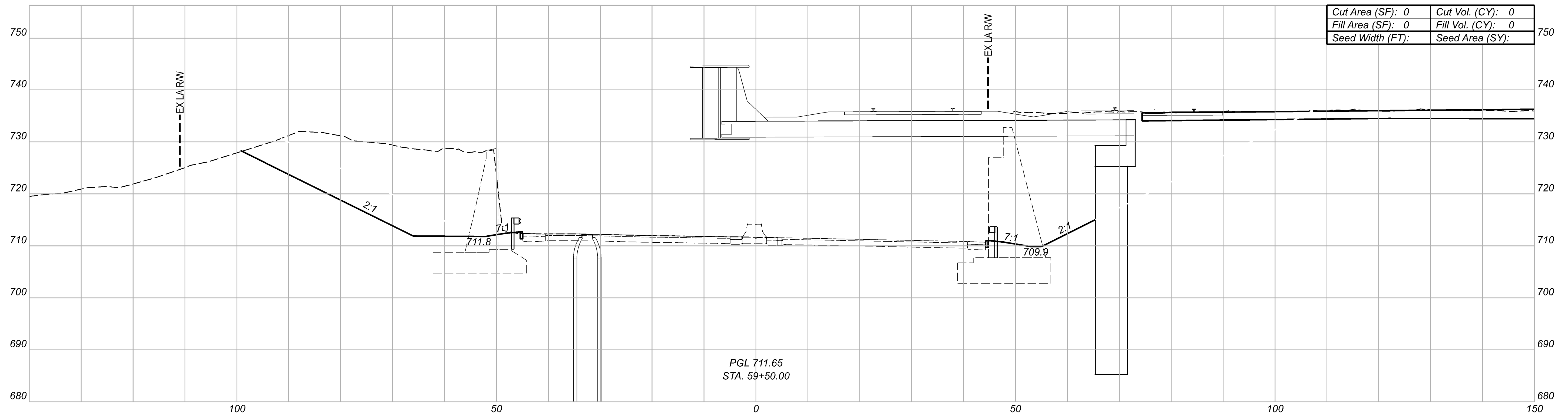
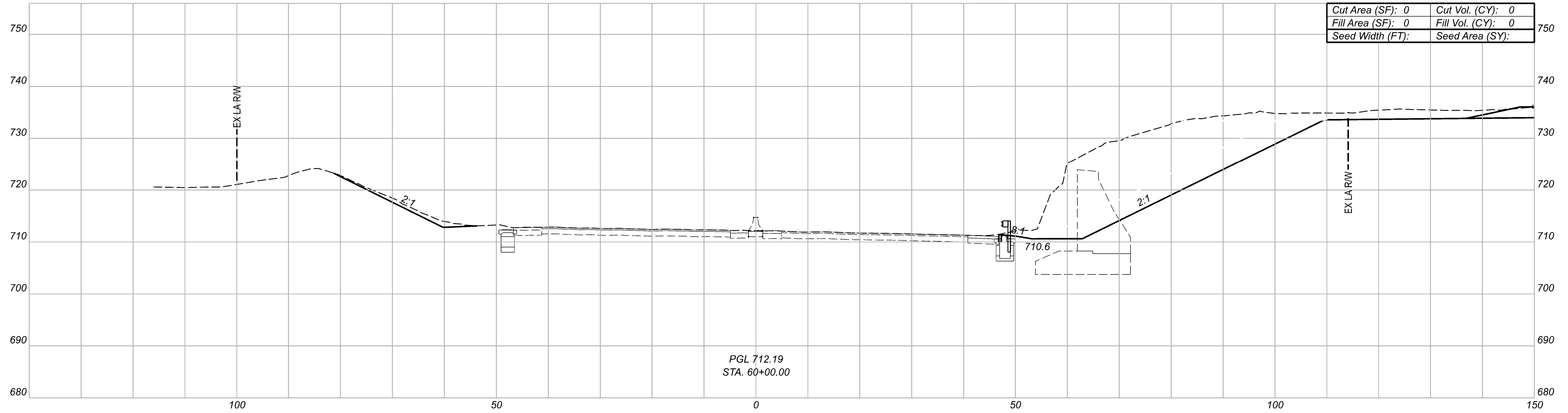
CROSS SECTIONS - IR-77  
STA. 58+50.00 TO STA. 59+00.00



DESIGNER  
MSW  
REVIEWER  
NFF 02/15/22  
PROJECT ID  
21788

Sheet Totals		
Seeding	Cut	Fill
.	.	.

SHEET	TOTAL
P.15	P.74



CROSS SECTIONS - IR-77  
STA. 59+50.00 TO STA. 60+00.00



DESIGNER

MSW

REVIEWER

NFF 02/15/22

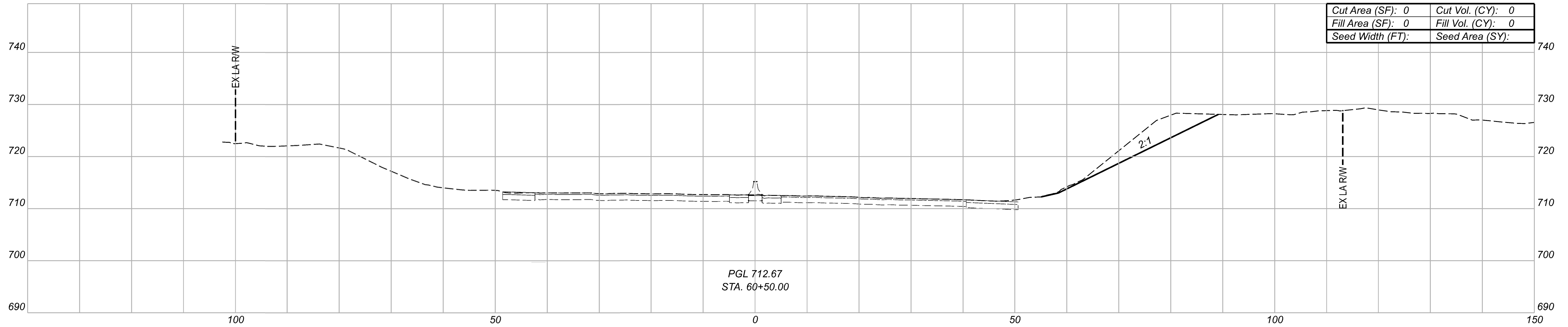
PROJECT ID

21788

Sheet Totals		
Seeding	Cut	Fill
.	.	.

SHEET	TOTAL
P.16	P.74





PGL 712.67  
 STA. 60+50.00

CROSS SECTIONS - IR-77  
 STA. 60+50.00



DESIGNER  
 MSW

REVIEWER  
 NFF

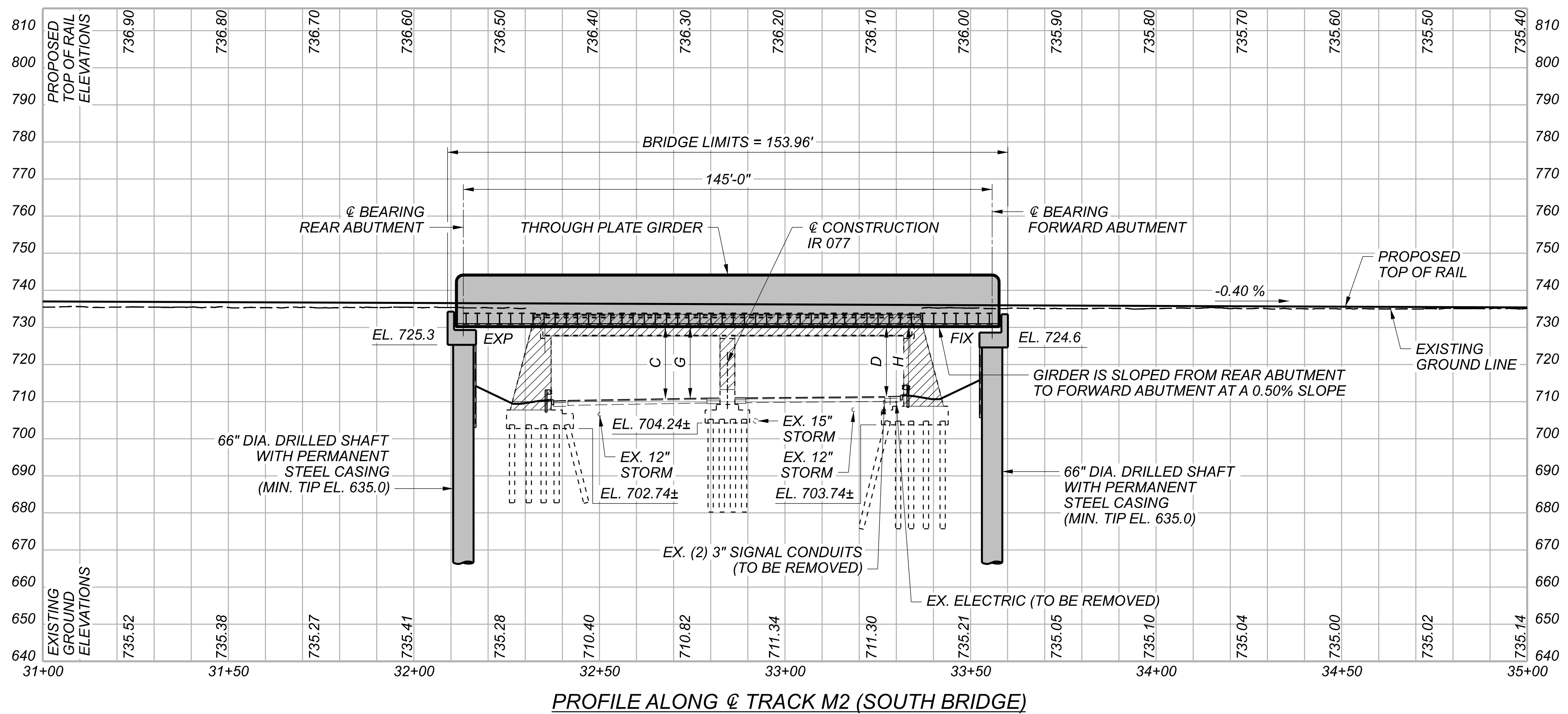
02/15/22

PROJECT ID  
 21788

Sheet Totals		
Seeding	Cut	Fill
.	.	.


SHEET	TOTAL
P.17	P.74

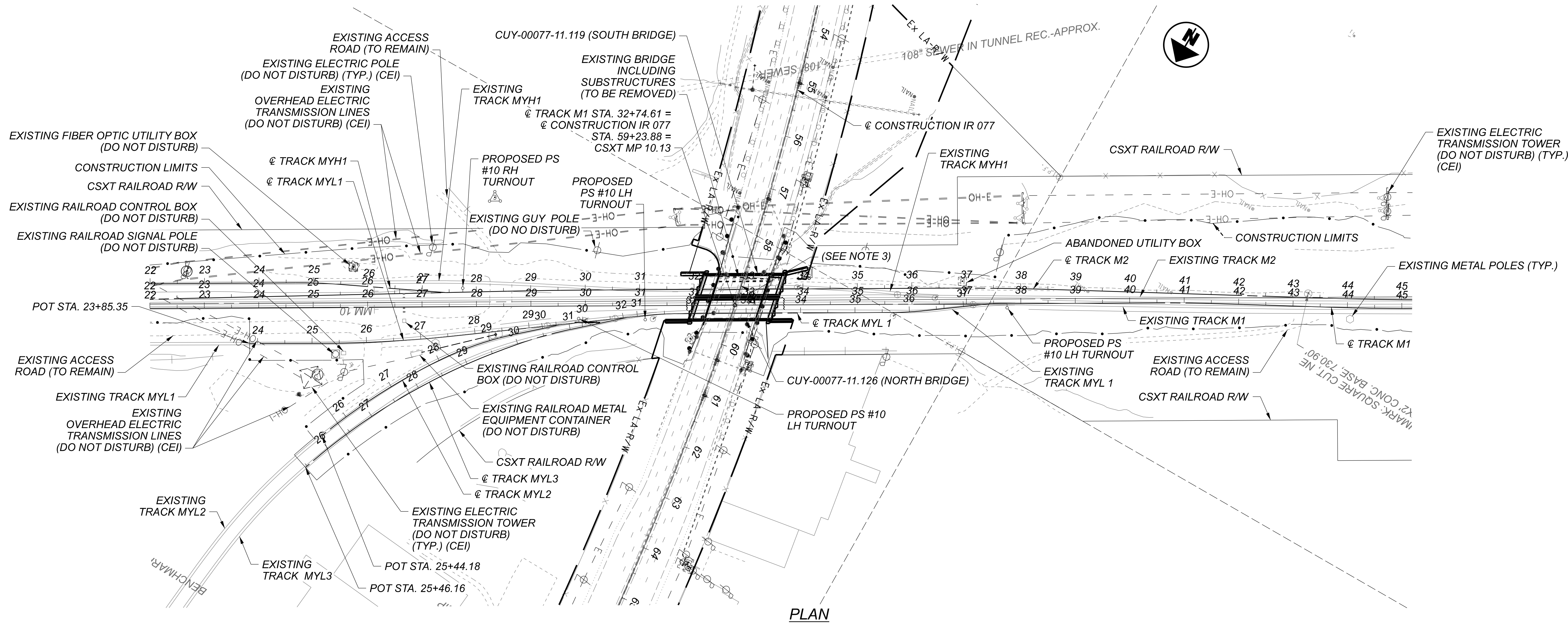




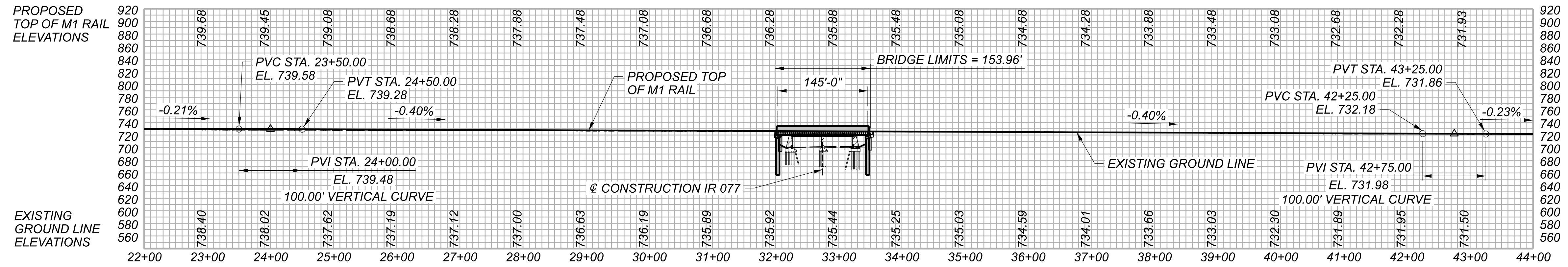
**NOTE:**

- FOR PLAN OF NORTH AND SOUTH BRIDGES AND PROFILE OF NORTH BRIDGE, SEE SHEET P. 16.

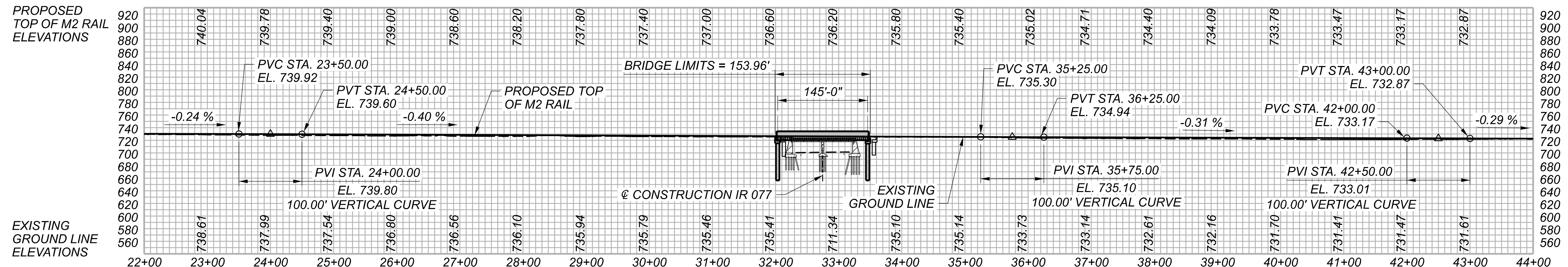
SFN	1806271
SFN	1806272
DESIGN AGENCY	 1100 SUPERIOR AVENUE SUITE 000 CLEVELAND, OHIO 44114
DESIGNER	ZTW
CHECKER	RSB
REVIEWER	NFF
DATE	02/15/22
PROJECT ID	21788
SUBSET	TOTAL
2	10
SHEET	TOTAL
P.21	P.74



PLAN



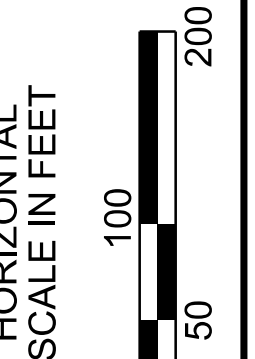
PROFILE ALONG @ TRACK M1



PROFILE ALONG @ TRACK M2

**NOTES:**

1. FOR HORIZONTAL ALIGNMENT INFORMATION OF ALL TRACKS AND PROFILE OF TRACKS MYL1, MYL2, MYL3, AND MYH1, SEE RAIL PLANS.
2. FOR ADDITIONAL INFORMATION NOT SHOWN, SEE RAIL PLANS.
3. THE INTERSECTION ANGLE BETWEEN @ TRACK M1 AND THE LOCAL TANGENT OF @ CONSTRUCTION IR 077 = 71°27'17\"/>



SUPPLEMENTAL SITE PLAN  
 BRIDGE NO. CUY-00077-11.119 AND CUY-00077-11.126  
 CSXT RAILROAD OVER IR 077

SFN	1806271
SFN	1806272
DESIGN AGENCY	1100 SUPERIOR AVENUE SUITE 000 CLEVELAND, OHIO 44114
DESIGNER	JML
CHECKER	ZTW
REVIEWER	NFF
DATE	02/15/22
PROJECT ID	21788
SUBSET	3
TOTAL	10
SHEET	P.22
TOTAL	P.74