OHIO DEPARTMENT OF TRANSPORTATION

SAN-20-20.80 (PID 112222)

Regulated Materials Review

December 6, 2024

Lawhon & Associates, Inc.

The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being, or have been, carried-out by ODOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 14, 2020, and executed by FHWA and ODOT.

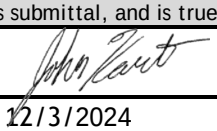
RMR SCREENING SUMMARY

February 2023

GENERAL INFORMATION

Project C-R-S / Name:	SAN-20-20.80	PID:	112222	District:	02
Brief Project Description:	Reconfiguration of the east interchange (U.S. 20/State St.) on the Fremont By-Pass to a roundabout. The intersection of C.R. 198 and C.R. 229 with U.S. 20 will be closed.				
Report Author(s):	Will Arnold & John Korth				
Affiliation:	Consultant – Lawhon & Associates, Inc.				

CERTIFICATION *(Must be acknowledged by Prequalified Individual)*

☒	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:	John Korth	Signature:	
Title:	Project Manager	Date:	12/3/2024
Email:	jkorth@lawhon-assoc.com	Phone Number:	(614) 481-8600

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?	Choose yes/no/unknown.
1d:	Is the Project within 300-feet of a landfill?	Choose yes/no/unknown.

- *If answer to Questions 1a and 1b are **Yes** or **UNKNOWN**, skip Questions 1c and 1d and continue to Block 2.*
- *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).*
- *If answer to 1a, 1b and 1c are **NO**, conduct a Landfill Specific ORPS.*
- *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.*
- *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.*

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.

BLOCK 3 – INITIATE PROJECT SCREENING

Are all Properties within the Project Limits Exempt; AND Project is not with 300 feet of a Landfall; AND 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 7-9).

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 On or Adjacent to Property?	Is the Property Likely Impacted by RM?	Is Property RM Likely Encountered During Construction?	Action Result?	Comments
RM-001	Mackenzie & Kaleb Bickley	115 CR 398	Residential	No	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	Exempt	No Take	No	No	No	No	RMR Complete	
RM-002	Kenneth Klohn	1740 CR 229	Residential	No	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	Exempt	Partial Take	No	No	No	No	RMR Complete	
RM-003	Donald & Shirley Anstead	2630 State St E	Agricultural	No	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	Exempt	Partial Take	No	No	No	No	RMR Complete	

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 On or Adjacent to Property?	Is the Property Likely Impacted by RM?	Is Property RM Likely Encountered During Construction?	Action Result?	Comments	
RM-004	Danny & Elizabeth Anstead	1757 CR 229	Agricultural	No	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	Exempt	Partial Take	No	Yes	No	No	RMR Complete		
RM-005	Marlene Miller	SR 20	Undeveloped/Forested	No	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	Exempt	Total Take	No	Yes	No	No	RMR Complete		
RM-006	J&J Lajti Enterprises / East State Properties LLC	2951 SR 20	Commercial (bank, office, store, lodging, care)	Yes	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☐ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☒ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	High	No Take	No	No	No	No	RMR Complete		

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 On or Adjacent to Property?	Is the Property Likely Impacted by RM?	Is Property RM Likely Encountered During Construction?	Action Result?	Comments	
RM-007	Daniel & Tammy Swinehart	3040 State St E	Residential	No	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	Exempt	No Take	No	No	No	No	RMR Complete		
RM-008	Garza Construction Inc., / EllaJames Enterprises LLC	3068 A State St E	Commercial (bank, office, store, lodging, care)	Yes Site used to operate as a gas station from at least 1956 until at most 1970.	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	High	Partial Take	No	Unknown	No	No	RM Plan Note		
RM-009	Toledo Edison Company	SR 20	Electrical Substation	No	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	High	No Take	No	No	No	No	RMR Complete		

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 On or Adjacent to Property?	Is the Property Likely Impacted by RM?	Is Property RM Likely Encountered During Construction?	Action Result?	Comments	
RM-010	Tiffany's Furniture & Mattress / Tiffany Lewis	3051 State St E	Commercial (bank, office, store, lodging, care)	No	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	Low	No Take	No	No	No	No	RMR Complete		
RM-011	Terry & Janet Frey	CR 358	Undeveloped/Forested	No	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	Exempt	No Take	No	No	No	No	RMR Complete		
RM-012	Lamar & Diane Hetrick	2950 State St E	Residential	No	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	Exempt	No Take	No	No	No	No	RMR Complete		

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 On or Adjacent to Property?	Is the Property Likely Impacted by RM?	Is Property RM Likely Encountered During Construction?	Action Result?	Comments	
RM-013	David & Constance Ohms	2893 State St E	Residential	No	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	Exempt	No Take	No	No	No	No	RMR Complete		
RM-014	Danny & Elizabeth Anstead	State St E	Agricultural	No	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	Exempt	No Take	No	No	No	No	RMR Complete		
RM-015	Roy & Roxana Twigg	2787 State St E	Residential	No	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	Exempt	No Take	No	No	No	No	RMR Complete		

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 On or Adjacent to Property?	Is the Property Likely Impacted by RM?	Is Property RM Likely Encountered During Construction?	Action Result?	Comments	
RM-016	David & Mary Dyke	2783 State St E	Residential	No	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	Exempt	No Take	No	No	No	No	RMR Complete		
RM-017	John & Mildred Miarer	State St E	Agricultural	No	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	Exempt	No Take	No	No	No	No	RMR Complete		
RM-018	Scott & Jennifer Rathfelder	E State St	Agricultural	No	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	Exempt	No Take	No	No	No	No	RMR Complete		

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 On or Adjacent to Property?	Is the Property Likely Impacted by RM?	Is Property RM Likely Encountered During Construction?	Action Result?	Comments	
RM-019	GCM Truck, Trailer & Auto Repair / A to Z's Properties LTD	2673 State St E	Automotive Repair/Shop/Oil Change/Body Shop	Yes	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	High	No Take	No	No	No	No	RMR Complete		
RM-020	Plaza Lanes / Roger & Joan Rhoad	2641 State St E	Commercial (bank, office, store, lodging, care)	No	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	Low	No Take	No	No	No	No	RMR Complete		
RM-021	Damschroder Roofing Inc. / Jenco of Sandusky County LLC	2625 State St E	Commercial (bank, office, store, lodging, care)	No	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	Low	No Take	No	No	No	No	RMR Complete		

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 On or Adjacent to Property?	Is the Property Likely Impacted by RM?	Is Property RM Likely Encountered During Construction?	Action Result?	Comments	
RM-022	Fremont Bible Bap Church	SR 20	Church	No	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	Exempt	No Take	No	No	No	No	RMR Complete		
RM-023	Isaac Decker	2507 State St E	Residential	No	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	Exempt	Partial Take	No	Unknown	No	No	RMR Complete		
RM-024	VKT Farm LLC	2554 State St E	Agricultural	No	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	Exempt	No Take	No	No	No	No	RMR Complete		

Map of Study Area





Site Location Map

Legend

- Study Area
- Construction Limits
- Parcel Lines

N

0 250 500 1,000 Feet

SAN-20-20.80
PID: 112222

Study Area Map

Lawhon & Associates, Inc.

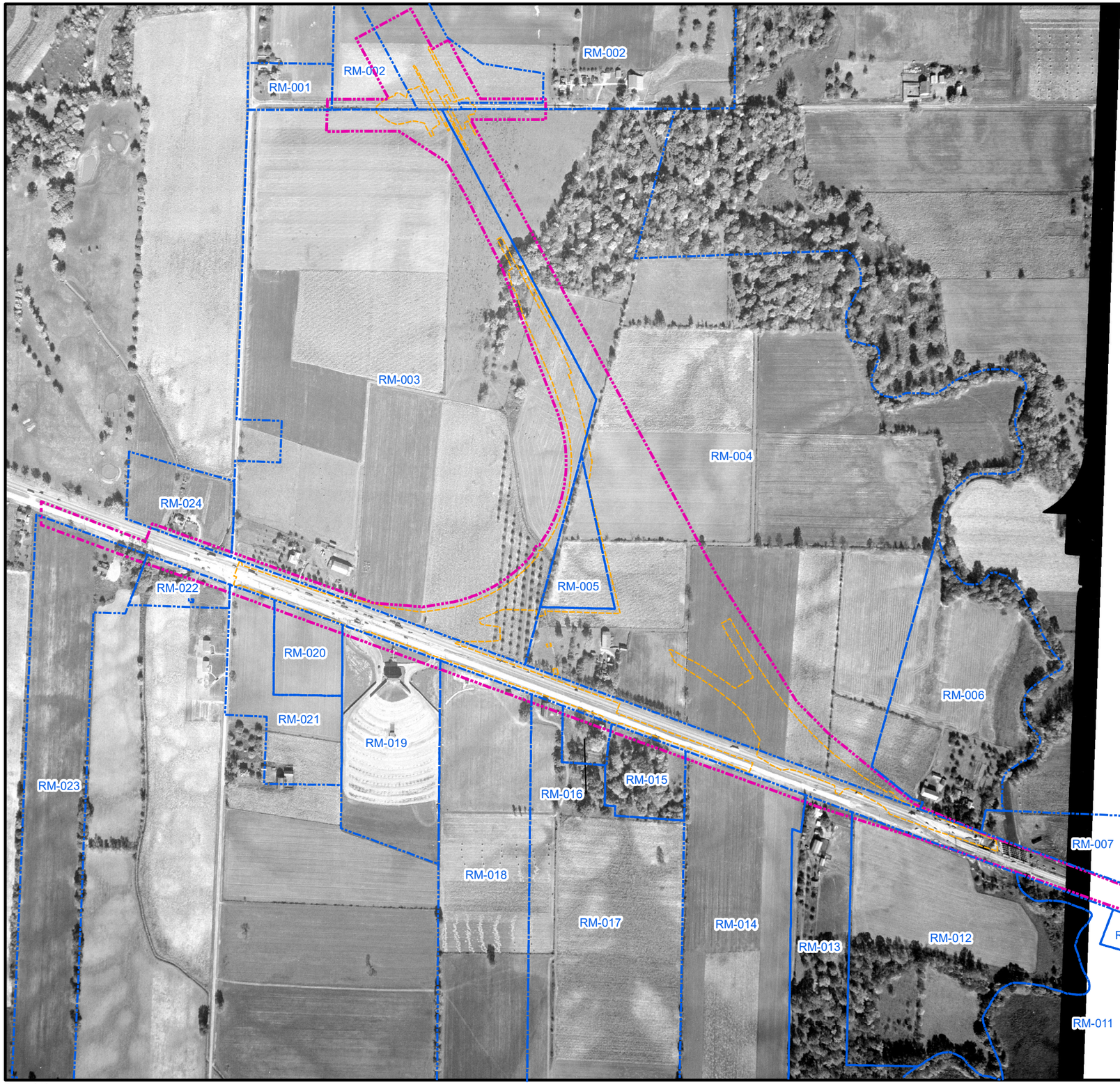
Date:	Approved by:	L&A No.	Figure
Dec. 2024	CA	21-0142	1

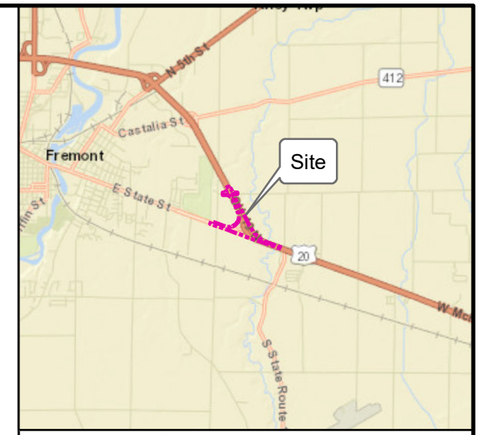
Source:

File Name: 01-Study Area.mxd

Edited: 11/19/2024 By: afraley

Aerial Photographs





Site Location Map

Legend

- Study Area
- Construction Limits
- Parcel Lines

N

0 250 500 1,000 Feet

SAN-20-20.80
PID: 112222

1952 Aerial Imagery

Lawhon & Associates, Inc.

Date:	Approved by:	L&A No.	Figure
Dec. 2024	CA	21-0142	2

Source: ODOT

File Name: 02-1952 Aerial.mxd

Edited: 11/19/2024 By: afraley

RM-001
RM-002
RM-002
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RM-024



Site Location Map

Legend

- Study Area
- Construction Limits
- Parcel Lines

N

0 250 500 1,000 Feet

SAN-20-20.80
PID: 112222

1970 Aerial Imagery

Lawhon & Associates, Inc.

Date:	Approved by:	L&A No.	Figure
Dec. 2024	CA	21-0142	3

Source: ODOT

File Name: 03-1970 Aerial.mxd

Edited: 11/19/2024 By: afraley

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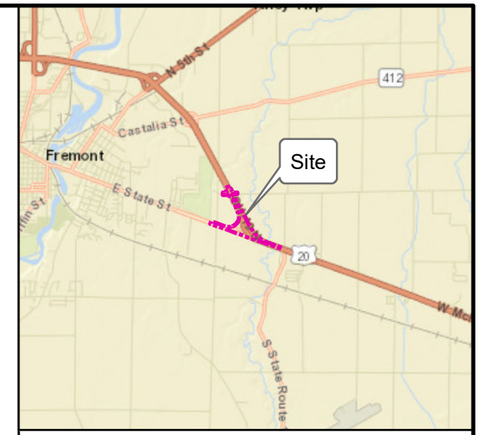
RM-023
RM-024



Site Location Map

Legend

N

- Study Area
- Construction Limits
- Parcel Lines

0 250 500 1,000 Feet

SAN-20-20.80
PID: 112222

1998 Aerial Imagery

Lawhon & Associates, Inc.

Date:	Approved by:	L&A No.	Figure
Dec. 2024	CA	21-0142	4

Source: ODOT

File Name: 04-1998 Aerial.mxd Edited: 11/19/2024 By: afraley

RM-001
RM-002
RM-002
RM-003
RM-004
RM-005
RM-006
RM-007
RM-008
RM-009
RM-010
RM-011
RM-012
RM-013
RM-014
RM-015
RM-016
RM-017
RM-018
RM-019
RM-020
RM-021
RM-022
RM-023
RM-024



Site Location Map

Legend

- Study Area
- Construction Limits
- Parcel Lines

N

0 250 500 1,000 Feet

SAN-20-20.80
PID: 112222

2002 Aerial Imagery

Lawhon & Associates, Inc.

Date:	Approved by:	L&A No.	Figure
Dec. 2024	CA	21-0142	5

Source: ODOT

File Name: 05-2002 Aerial.mxd

Edited: 11/19/2024 By: afraley





Site Location Map

Legend

- Study Area
- Construction Limits
- Parcel Lines

N

0 250 500 1,000 Feet

SAN-20-20.80
PID: 112222

2012 Aerial Imagery

Lawhon & Associates, Inc.

Date:	Approved by:	L&A No.	Figure
Dec. 2024	CA	21-0142	6

Source:

File Name: 06-2012 Aerial.mxd

Edited: 11/19/2024 By: afraley

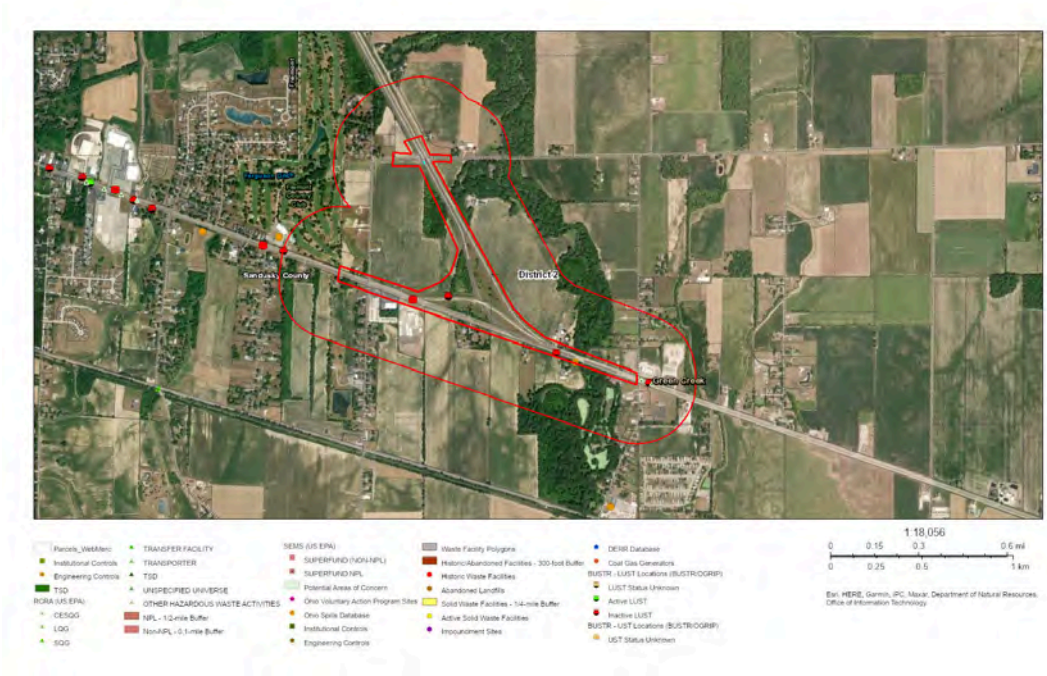
ODOT Regulatory Property Search

ORPS Summary Report

Area of Interest (AOI) Information

Area : 591.93 acres

Oct 28 2024 13:20:54 Eastern Daylight Time



Summary

Name	Count	Area(acres)	Length(ft)
SEMS - Non-NPL Sites w/buffer (US EPA)	0	0	N/A
SEMS - NPL Sites w/buffer (US EPA)	0	0	N/A
RCRA (US EPA)	2	N/A	N/A
RCRA - TSD Sites w/buffer (US EPA)	0	0	N/A
Federal Engineering Controls (US EPA)	0	N/A	N/A
Federal Institutional Controls (US EPA)	0	N/A	N/A
BUSTR - UST Locations (BUSTR/OGRIP)	1	N/A	N/A
BUSTR - LUST Locations (BUSTR/OGRIP)	5	N/A	N/A
Coal Gas Generators (OEPA-DERR)	0	N/A	N/A
DERR Database (OEPA-DERR)	0	N/A	N/A
Impoundment Sites (OEPA-DERR)	0	N/A	N/A
Landfills - Active Solid Waste Facilities w/buffer (OEPA-DMWM)	0	0	N/A
Landfills - Historic/Abandoned Facilities w/buffer (OEPA-DMWM/DERR)	0	0	N/A
Landfills - Solid Waste Facility Polygons (OEPA-DMWM)	0	0	N/A
Projects With Engineering Controls (OEPA-DERR)	0	N/A	N/A
Projects With Institutional Controls (OEPA-DERR)	0	N/A	N/A
Spills Database (OEPA)	1	N/A	N/A
VAP Sites (OEPA-DERR)	0	N/A	N/A
Potential Areas of Concern (ODOT-OES)	0	0	N/A

RCRA (US EPA)

#	REGISTRY_ID	PRIMARY_NAME	ADDRESS	CITY	STATE	ZIP	LAST_REPORTED_DATE	URL
1	110070122329	COLUMBIA GAS OF OHIO FREMONT FACILITY	3136 E STATE ST	FREMONT	OH	43420	7/27/2017	https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070122329
2	110004643191	FREMONT VOLVO AND GMC TRUCKS	3108 E STATE ST	FREMONT	OH	43420	4/28/2015	https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110004643191

#	PGM_SYS_ID	PGM_SYS_ACRONYM	INTEREST_TYPE	REFERENCE_POINT_DESC	Count
1	OHR000205393	RCRAINFO	CESQG	ENTRANCE POINT OF A FACILITY OR STATION	1
2	OHD981534159	RCRAINFO	CESQG	ENTRANCE POINT OF A FACILITY OR STATION	1

BUSTR - UST Locations (BUSTR/OGRIP)

#	FACILITY_ID	CURRENT_FACILITY_NAME	ADDRESS	CITY	ZIP	Status	INSPECTION_DATE	FACILITY_CO
1	72000054	BOWER TILING SERVICE, INC.	2951 E STATE ST	FREMONT	43420	REM	*No Data*	*No Data*

#	TANK_ID	CAPACITY	CONTENT	DATE_REMOVED	FACILITY_STATUS	Count
1	T00001	10000	Diesel	01/26/94	Inactive	1

BUSTR - LUST Locations (BUSTR/OGRIP)

#	FACILITY_ID	CURRENT_FACILITY_NAME	ADDRESS	CITY	ZIP	INCIDENT_ID	LTF	STATUS	FACILITY_STATUS	Count
1	72000054	BOWER TILING SERVICE, INC.	2951 E STATE ST	FREMONT	43420	N00001	1 SUS/CON from regulated UST	NFA: No Further Action	Inactive	1
2	72009977	FREMONT WHITE GMC TRUCKING	3108 E STATE ST	FREMONT	43420	N00001	6 Closure of regulated UST	NFA: No Further Action	Inactive	1
3	*No Data*	FREMONT WHITE GMC TRUCKING	3108 E STATE ST	FREMONT	43420	*No Data*	6 Closure of regulated UST	NFA: No Further Action	Inactive	1
4	*No Data*	FREMONT COUNTRY CLUB	2340 E STATE ST	FREMONT	43420	*No Data*	6 Closure of regulated UST	NFA: No Further Action	Inactive	1
5	*No Data*	BOWER TILING SERVICE, INC.	2951 E STATE ST	FREMONT	43420	*No Data*	1 SUS/CON from regulated UST	NFA: No Further Action	Inactive	1

Spills Database (OEPA)

#	LATITUDE	LONGITUDE	SPILL_NUMBER	SPILL_YEAR	SPILL_LOCATION	SPILL_CITY	SPILL_COUNTY	WATERWAY
1	41.331667	-83.055833	3185	2001	US 20 THREE MILES E OF FREMONT 3179 US 20 EAST OF PARKING LOT	GREEN CREEK TWP	SANDUSKY	GREEN CREEK

#	SPILL_AMOUNT	PRODUCT	STATUS	OEPA_DISTRICT	Count
1	0	MATERIAL WHITE	5/17/2017	NWDO	1

Flowcharts

Site RM-001, 006-007, 009-022, & 024

OHIO DEPARTMENT OF TRANSPORTATION

RMR Flowchart – RMR Screening

Purpose of the RMR Screening is to obtain a cursory understanding of the regulated material (RM) risks likely present on Properties within/abutting the Project Limits.
Outcomes from this RMR Screening will be to provide the District Environmental Coordinator (DEC) and Office of Environmental Services (OES) sufficient information to understand the potential for RM tied to new permanent right-of-way (ROW)/Take or Deep Excavation.

JULY 2022

START RMR SCREENING

STEP 1
Does the Project involve any new Take and/or Deep Excavations?

No

Step 2
Is the Project on the Rule 513 Exempt Activity List?

Yes

STEP 2A
Complete General Information and Block 1 of the RMR Screening Summery. Upload both to EnviroNet. Notify DEC RMR is complete.

Project is exempt from further evaluation.

No

Conduct Landfill Specific ORPS

Step 3
Is Project within 300 feet of a landfill?

Yes

STEP 3A
Complete General Information and Block 1 of the RMR Screening Summary. Upload RMR Summary and Landfill Specific ORPS to EnviroNet. Notify DEC immediately

Project requires further evaluation by DEC and OES for Rule 513. (see Note 1)

No

STEP 3B
Complete General Information and Block 1 of the RMR Screening Summary. Upload RMR Summary and Landfill Specific ORPS to EnviroNet. Notify DEC RMR is complete.

Project is exempt from further evaluation.

Yes or Unknown
Conduct Full RMR Screening

Inventory all Properties Within and Abutting the Project Limits on the Property Inventory, Conduct Full ORPS, Obtain Historical Aerials and Most Recent Project Plans. Complete Column 1 through Column 6 of the Property Inventory. If the Full ORPS Shows a Remote Property, complete Remote Property Inventory. Starting at Step 4, Follow the Flowchart Using Answers from Columns 1 Through Column 5 for Each Property. Using Most Up to Date Construction Plans, Complete Column 6 and Column 7. Use Answers from Column 6 and Column 7, Following the Flowchart, Determine Property's Action Results and Document in Column 8.
IF ONE OR MORE PROPERTIES ARE ON THE NATIONAL PRIORITIES LIST (NPL), COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY INFORMATION SYSTEM (CERCLIS) AND/OR WITHIN 300 FEET OF A LANDFILL CONTACT DEC IMMEDIATELY.

STEP 4
Is the Property a Whole Take?

Yes

Step 5
Is the Property's Land Use Risk Exempt?

Yes

STEP 5A
Document on the Property Inventory. Property is Complete and no further RMR is required.

No

STEP 5B
Document in Property Inventory. Conduct RMR Assessment. (See Note 1)

No

STEP 6
Is the Property a Partial Take with Demolition?

Yes

STEP 7
Is the Property's Land Use Risk Exempt?

Yes

STEP 7A
Document Property in Property Inventory. Property is Complete and no further RMR is required.

No

STEP 7B
On Document Property in Property Inventory. Conduct RMR Assessment. (See Note 1.)

No

STEP 8
Is there Deep Excavation on or adjacent to the Property and/or is the Property a Partial Take without Demolition?

No

STEP 9
Is the Property a Remote Property?

Yes

STEP 9A
Document in Remote Property Inventory. Request Regulatory files from appropriate Regulatory Agencies. Conduct Regulatory File Review and complete Regulatory File Review form. (see Note 2)

Property Screening Determination is Complete.
Continue to next Property. If determination has been completed for all Properties, complete RMR Screening report. Upload to Environet. Notify DEC RMR Screening is complete. Proceed to complete additional studies/plan note as indicated in the results of the RMR Screening

No

STEP 9B
Document on the RMR Screening Property Inventory. Property is Complete and no further RMR is required.

Yes

STEP 10
Is the Property's Land Use High Risk?

Yes

Request Regulatory File from Appropriate Regulatory Agencies.

STEP 11
Does the Property have a regulatory file?

Yes

STEP 11A
Document on Property Inventory. Conduct Regulatory file Review and complete Regulatory File Review form. Move to RMR Plan Note, RMR Investigation, or RMR Complete as appropriate. (See Note 1 and Note 3)

No

STEP 11B
Document on Property Inventory. Move to RMR Plan Note or RMR Investigation as appropriate. (See Note 1 and 4)

No

STEP 10
Document in Property Inventory. Property is exempt from further evaluation.

RMR Screening Report Content Requirements:

RMR Screening Completed at Step 2A – 1) RMR Screening Summary with General Information and Block 1 completed
RMR Screening Completed at Step 3A/3B – 1) Screening Summary with General Information and Block 1 completed, 2) Landfill ORPS
Full RMR Screening – 1) Completed RMR Screening template, 2) full ORPS Mapping and Report, 3) Regulatory File Review Form, 4) Historical Aerials, 5) Project Mapping, 6) Regulatory Files, 6) Most Recent Project Plans, 7) DCSF *(Upload to EnviroNet Separately)*

NOTES

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Note 1: Properties that are on NPL, CERCLIS and/or within 300 feet of a Landfill, the RMR Screening will be submitted to OES by the DEC. OES and the DEC will work together to determine the best path forward for the Project.

Note 2: Projects with one or more Remote Properties are to be submitted to OES by the DEC

Note 3: Property with USTs and a BUSTR File, the Property Determination will be either an RMR Plan Note or RMR Complete based on the Regulatory File Review. Continue to RMR Assessment/ Investigation/Plan Note Flowchart for next steps.

Note 3: Property with USTs but have no BUSTR Files, Property Determination is RMR Plan Note. Continue to RMR Assessment/Investigation/Plan Note Flowchart for next steps.

Note 4: A Property that is listed as a Landfill but has no regulatory files or is an undocumented Landfill, the RMR Screening is to be submitted to OES by the DEC. OES and the DEC will work together to determine the best path forward for the project

RESOURCES

Refer to the RMR Manual for in depth details on conducting the RMR Screening

Acronym/Definition List (See Appendix A of the RMR Manual for a full list)
- Abutting - Joining at boundary
- DEC – ODOT District Environmental Coordinator
- DSCF – Decision Summary and Cost Form
- OES – ODOT Office of Environmental Services
- ORPS – ODOT Regulatory Property Search
- Property Inventory – Listing of properties within or abutting project
- Remote Property - A Property that is not within or abutting to the Project Limits.
- RM - Regulated Materials
- RMR – Regulated Materials Review
- Take - Act or process of acquiring a permanent right-of-way (ROW)

LAND USE RISK CATEGORIES

Exempt Category
- Agricultural
- Cemetery
- Forested land
- Parks
- Recreation Areas
- Residential
- Undeveloped

Low-Risk Category
- Bank
- Car Dealership (no Automotive Repair)
- Commercial Office Space
- Daycare
- Florist/Landscaper
- Government Office
- Grocery
- Lodging
- Pharmacy
- Physicians/Dentist Office
- Restaurant
- Retail Store
- Railroad, Featureless Track
- Hospitals

High-Risk Category
- Automotive Repair/Service/Oil Change
- Body Shop
- Dry Cleaner
- Electrical Substation
- Gas Stations and Service Station
- Government Maintenance Facilities
- Grain Elevator
- Junkyard/Scrapyard
- Landfill
- Property listed on regulatory databases
- Manufacturing
- Oil/Chemical Warehouse/ Storage
- Railroad Maintenance/Siding
- ANY Industrial Use

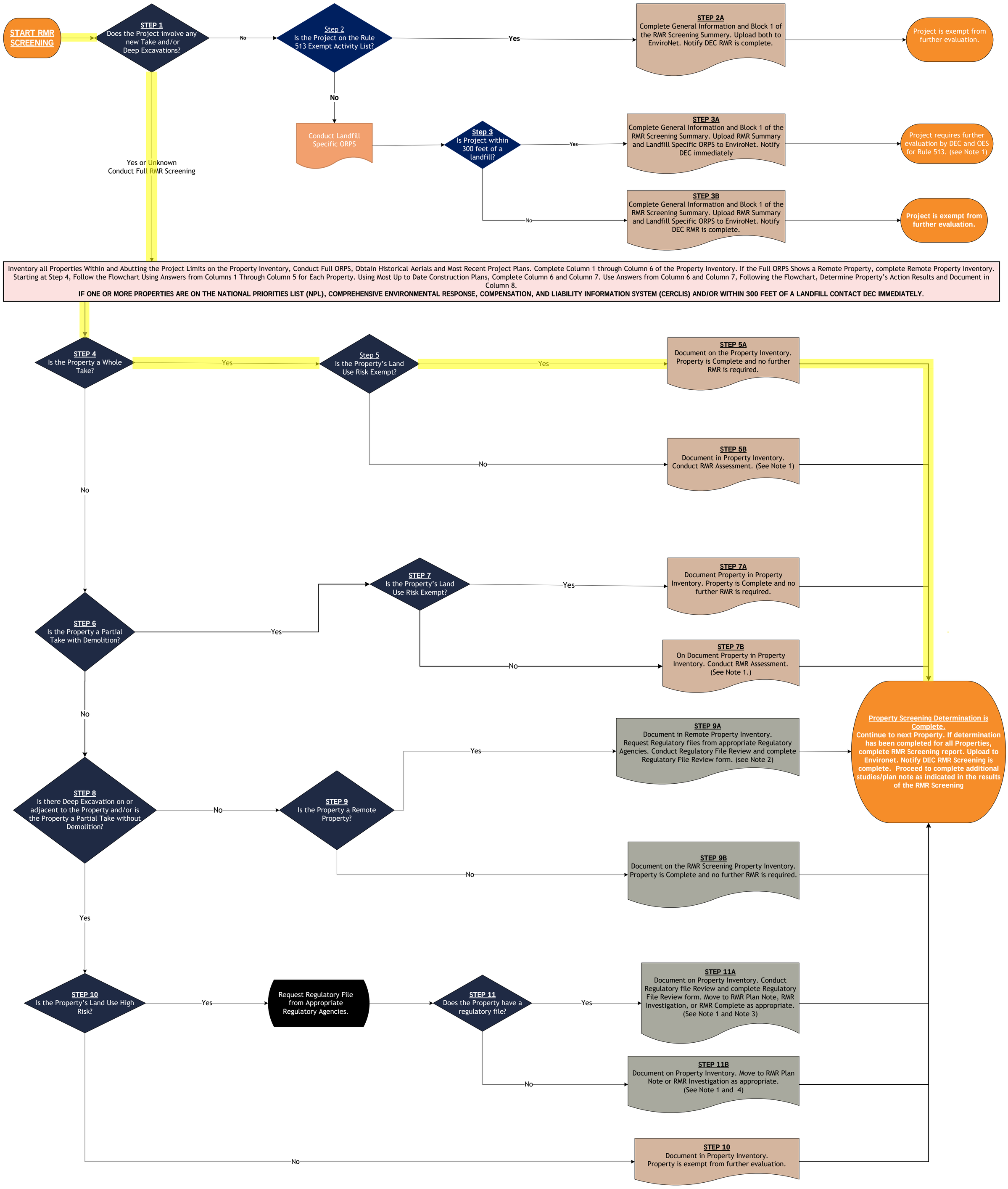
RM-005

OHIO DEPARTMENT OF TRANSPORTATION

RMR Flowchart – RMR Screening

Purpose of the RMR Screening is to obtain a cursory understanding of the regulated material (RM) risks likely present on Properties within/abutting the Project Limits.
Outcomes from this RMR Screening will be to provide the District Environmental Coordinator (DEC) and Office of Environmental Services (OES) sufficient information to understand the potential for RM tied to new permanent right-of-way (ROW)/Take or Deep Excavation.

JULY 2022



RMR Screening Report Content Requirements:

RMR Screening Completed at Step 2A – 1) RMR Screening Summary with General Information and Block 1 completed
RMR Screening Completed at Step 3A/3B – 1) Screening Summary with General Information and Block 1 completed, 2) Landfill ORPS
Full RMR Screening – 1) Completed RMR Screening template, 2) full ORPS Mapping and Report, 3) Regulatory File Review Form, 4) Historical Aerials, 5) Project Mapping, 6) Regulatory Files, 6) Most Recent Project Plans, 7) DCSF *(Upload to EnviroNet Separately)*

NOTES

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Note 1: Properties that are on NPL, CERCLIS and/or within 300 feet of a Landfill, the RMR Screening will be submitted to OES by the DEC. OES and the DEC will work together to determine the best path forward for the Project.

Note 2: Projects with one or more Remote Properties are to be submitted to OES by the DEC

Note 3: Property with USTs and a BUSTR File, the Property Determination will be either an RMR Plan Note or RMR Complete based on the Regulatory File Review. Continue to RMR Assessment/ Investigation/Plan Note Flowchart for next steps.

Note 3: Property with USTs but have no BUSTR Files, Property Determination is RMR Plan Note. Continue to RMR Assessment/Investigation/Plan Note Flowchart for next steps.

Note 4: A Property that is listed as a Landfill but has no regulatory files or is an undocumented Landfill, the RMR Screening is to be submitted to OES by the DEC. OES and the DEC will work together to determine the best path forward for the project

RESOURCES

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- Remote Property - A Property that is not within or abutting to the Project Limits.
- RM - Regulated Materials
- RMR – Regulated Materials Review
- Take - Act or process of acquiring a permanent right-of-way (ROW)

LAND USE RISK CATEGORIES

Exempt Category
- Agricultural
- Cemetery
- Forested land
- Parks
- Recreation Areas
- Residential
- Undeveloped

Low-Risk Category
- Bank
- Car Dealership (no Automotive Repair)
- Commercial Office Space
- Daycare
- Florist/Landscaper
- Government Office
- Grocery
- Lodging
- Pharmacy
- Physicians/Dentist Office
- Restaurant
- Retail Store
- Railroad, Featureless Track
- Hospitals

High-Risk Category
- Automotive Repair/Service/Oil Change
- Body Shop
- Dry Cleaner
- Electrical Substation
- Gas Stations and Service Station
- Government Maintenance Facilities
- Grain Elevator
- Junkyard/Scrapyard
- Landfill
- Property listed on regulatory databases
- Manufacturing
- Oil/Chemical Warehouse/ Storage
- Railroad Maintenance/Siding
- ANY Industrial Use

RM-008

OHIO DEPARTMENT OF TRANSPORTATION

RMR Flowchart – RMR Screening

Purpose of the RMR Screening is to obtain a cursory understanding of the regulated material (RM) risks likely present on Properties within/abutting the Project Limits.
Outcomes from this RMR Screening will be to provide the District Environmental Coordinator (DEC) and Office of Environmental Services (OES) sufficient information to understand the potential for RM tied to new permanent right-of-way (ROW)/Take or Deep Excavation.

JULY 2022

START RMR SCREENING

STEP 1
Does the Project involve any new Take and/or Deep Excavations?

- No → **Step 2** Is the Project on the Rule 513 Exempt Activity List?
  - Yes → **STEP 2A** Complete General Information and Block 1 of the RMR Screening Summery. Upload both to EnviroNet. Notify DEC RMR is complete. → Project is exempt from further evaluation.
  - No → Conduct Landfill Specific ORPS → **Step 3** Is Project within 300 feet of a landfill?
    - Yes → **STEP 3A** Complete General Information and Block 1 of the RMR Screening Summary. Upload RMR Summary and Landfill Specific ORPS to EnviroNet. Notify DEC immediately → Project requires further evaluation by DEC and OES for Rule 513. (see Note 1)
    - No → **STEP 3B** Complete General Information and Block 1 of the RMR Screening Summary. Upload RMR Summary and Landfill Specific ORPS to EnviroNet. Notify DEC RMR is complete. → **Project is exempt from further evaluation.**
- Yes or Unknown → Conduct Full RMR Screening

Inventory all Properties Within and Abutting the Project Limits on the Property Inventory, Conduct Full ORPS, Obtain Historical Aerials and Most Recent Project Plans. Complete Column 1 through Column 6 of the Property Inventory. If the Full ORPS Shows a Remote Property, complete Remote Property Inventory. Starting at Step 4, Follow the Flowchart Using Answers from Columns 1 Through Column 5 for Each Property. Using Most Up to Date Construction Plans, Complete Column 6 and Column 7. Use Answers from Column 6 and Column 7, Following the Flowchart, Determine Property's Action Results and Document in Column 8.
IF ONE OR MORE PROPERTIES ARE ON THE NATIONAL PRIORITIES LIST (NPL), COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY INFORMATION SYSTEM (CERCLIS) AND/OR WITHIN 300 FEET OF A LANDFILL CONTACT DEC IMMEDIATELY.

STEP 4
Is the Property a Whole Take?

- Yes → **Step 5** Is the Property's Land Use Risk Exempt?
  - Yes → **STEP 5A** Document on the Property Inventory. Property is Complete and no further RMR is required.
  - No → **STEP 5B** Document in Property Inventory. Conduct RMR Assessment. (See Note 1)
- No → **STEP 6** Is the Property a Partial Take with Demolition?
  - Yes → **STEP 7** Is the Property's Land Use Risk Exempt?
    - Yes → **STEP 7A** Document Property in Property Inventory. Property is Complete and no further RMR is required.
    - No → **STEP 7B** On Document Property in Property Inventory. Conduct RMR Assessment. (See Note 1.)
  - No → **STEP 8** Is there Deep Excavation on or adjacent to the Property and/or is the Property a Partial Take without Demolition?
    - No → **STEP 9** Is the Property a Remote Property?
      - Yes → **STEP 9A** Document in Remote Property Inventory. Request Regulatory files from appropriate Regulatory Agencies. Conduct Regulatory File Review and complete Regulatory File Review form. (see Note 2)
      - No → **STEP 9B** Document on the RMR Screening Property Inventory. Property is Complete and no further RMR is required.
    - Yes → **STEP 10** Is the Property's Land Use High Risk?
      - Yes → Request Regulatory File from Appropriate Regulatory Agencies. → **STEP 11** Does the Property have a regulatory file?
        - Yes → **STEP 11A** Document on Property Inventory. Conduct Regulatory file Review and complete Regulatory File Review form. Move to RMR Plan Note, RMR Investigation, or RMR Complete as appropriate. (See Note 1 and Note 3)
        - No → **STEP 11B** Document on Property Inventory. Move to RMR Plan Note or RMR Investigation as appropriate. (See Note 1 and 4)
      - No → **STEP 10** Document in Property Inventory. Property is exempt from further evaluation.

Property Screening Determination is Complete.
Continue to next Property. If determination has been completed for all Properties, complete RMR Screening report. Upload to Environet. Notify DEC RMR Screening is complete. Proceed to complete additional studies/plan note as indicated in the results of the RMR Screening

RMR Screening Report Content Requirements:

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NOTES

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Note 3: Property with USTs and a BUSTR File, the Property Determination will be either an RMR Plan Note or RMR Complete based on the Regulatory File Review. Continue to RMR Assessment/ Investigation/Plan Note Flowchart for next steps.

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RESOURCES

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- RMR – Regulated Materials Review
- Take - Act or process of acquiring a permanent right-of-way (ROW)

LAND USE RISK CATEGORIES

Exempt Category
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Low-Risk Category
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- Restaurant
- Retail Store
- Railroad, Featureless Track
- Hospitals

High-Risk Category
- Automotive Repair/Service/Oil Change
- Body Shop
- Dry Cleaner
- Electrical Substation
- Gas Stations and Service Station
- Government Maintenance Facilities
- Grain Elevator
- Junkyard/Scrapyard
- Landfill
- Property listed on regulatory databases
- Manufacturing
- Oil/Chemical Warehouse/ Storage
- Railroad Maintenance/Siding
- ANY Industrial Use

Site RM-002-004 & 023

OHIO DEPARTMENT OF TRANSPORTATION

RMR Flowchart – RMR Screening

Purpose of the RMR Screening is to obtain a cursory understanding of the regulated material (RM) risks likely present on Properties within/abutting the Project Limits.
Outcomes from this RMR Screening will be to provide the District Environmental Coordinator (DEC) and Office of Environmental Services (OES) sufficient information to understand the potential for RM tied to new permanent right-of-way (ROW)/Take or Deep Excavation.

JULY 2022

START RMR SCREENING

STEP 1
Does the Project involve any new Take and/or Deep Excavations?

No

Step 2
Is the Project on the Rule 513 Exempt Activity List?

Yes

STEP 2A
Complete General Information and Block 1 of the RMR Screening Summery. Upload both to EnviroNet. Notify DEC RMR is complete.

Project is exempt from further evaluation.

No

Conduct Landfill Specific ORPS

Step 3
Is Project within 300 feet of a landfill?

Yes

STEP 3A
Complete General Information and Block 1 of the RMR Screening Summary. Upload RMR Summary and Landfill Specific ORPS to EnviroNet. Notify DEC immediately

Project requires further evaluation by DEC and OES for Rule 513. (see Note 1)

No

STEP 3B
Complete General Information and Block 1 of the RMR Screening Summary. Upload RMR Summary and Landfill Specific ORPS to EnviroNet. Notify DEC RMR is complete.

Project is exempt from further evaluation.

Yes or Unknown
Conduct Full RMR Screening

Inventory all Properties Within and Abutting the Project Limits on the Property Inventory, Conduct Full ORPS, Obtain Historical Aerials and Most Recent Project Plans. Complete Column 1 through Column 6 of the Property Inventory. If the Full ORPS Shows a Remote Property, complete Remote Property Inventory. Starting at Step 4, Follow the Flowchart Using Answers from Columns 1 Through Column 5 for Each Property. Using Most Up to Date Construction Plans, Complete Column 6 and Column 7. Use Answers from Column 6 and Column 7, Following the Flowchart, Determine Property's Action Results and Document in Column 8.
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STEP 4
Is the Property a Whole Take?

Yes

Step 5
Is the Property's Land Use Risk Exempt?

Yes

STEP 5A
Document on the Property Inventory. Property is Complete and no further RMR is required.

No

STEP 5B
Document in Property Inventory. Conduct RMR Assessment. (See Note 1)

No

STEP 6
Is the Property a Partial Take with Demolition?

Yes

STEP 7
Is the Property's Land Use Risk Exempt?

Yes

STEP 7A
Document Property in Property Inventory. Property is Complete and no further RMR is required.

No

STEP 7B
On Document Property in Property Inventory. Conduct RMR Assessment. (See Note 1.)

No

STEP 8
Is there Deep Excavation on or adjacent to the Property and/or is the Property a Partial Take without Demolition?

No

STEP 9
Is the Property a Remote Property?

Yes

STEP 9A
Document in Remote Property Inventory. Request Regulatory files from appropriate Regulatory Agencies. Conduct Regulatory File Review and complete Regulatory File Review form. (see Note 2)

No

STEP 9B
Document on the RMR Screening Property Inventory. Property is Complete and no further RMR is required.

Property Screening Determination is Complete.
Continue to next Property. If determination has been completed for all Properties, complete RMR Screening report. Upload to Environet. Notify DEC RMR Screening is complete. Proceed to complete additional studies/plan note as indicated in the results of the RMR Screening

Yes

STEP 10
Is the Property's Land Use High Risk?

Yes

Request Regulatory File from Appropriate Regulatory Agencies.

STEP 11
Does the Property have a regulatory file?

Yes

STEP 11A
Document on Property Inventory. Conduct Regulatory file Review and complete Regulatory File Review form. Move to RMR Plan Note, RMR Investigation, or RMR Complete as appropriate. (See Note 1 and Note 3)

No

STEP 11B
Document on Property Inventory. Move to RMR Plan Note or RMR Investigation as appropriate. (See Note 1 and 4)

No

STEP 10
Document in Property Inventory. Property is exempt from further evaluation.

RMR Screening Report Content Requirements:

RMR Screening Completed at Step 2A – 1) RMR Screening Summary with General Information and Block 1 completed
RMR Screening Completed at Step 3A/3B – 1) Screening Summary with General Information and Block 1 completed, 2) Landfill ORPS
Full RMR Screening – 1) Completed RMR Screening template, 2) full ORPS Mapping and Report, 3) Regulatory File Review Form, 4) Historical Aerials, 5) Project Mapping, 6) Regulatory Files, 6) Most Recent Project Plans, 7) DCSF *(Upload to EnviroNet Separately)*

NOTES

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Note 1: Properties that are on NPL, CERCLIS and/or within 300 feet of a Landfill, the RMR Screening will be submitted to OES by the DEC. OES and the DEC will work together to determine the best path forward for the Project.

Note 2: Projects with one or more Remote Properties are to be submitted to OES by the DEC

Note 3: Property with USTs and a BUSTR File, the Property Determination will be either an RMR Plan Note or RMR Complete based on the Regulatory File Review. Continue to RMR Assessment/ Investigation/Plan Note Flowchart for next steps.

Note 3: Property with USTs but have no BUSTR Files, Property Determination is RMR Plan Note. Continue to RMR Assessment/Investigation/Plan Note Flowchart for next steps.

Note 4: A Property that is listed as a Landfill but has no regulatory files or is an undocumented Landfill, the RMR Screening is to be submitted to OES by the DEC. OES and the DEC will work together to determine the best path forward for the project

RESOURCES

Refer to the RMR Manual for in depth details on conducting the RMR Screening

Acronym/Definition List (See Appendix A of the RMR Manual for a full list)
- Abutting - Joining at boundary
- DEC – ODOT District Environmental Coordinator
- DSCF – Decision Summary and Cost Form
- OES – ODOT Office of Environmental Services
- ORPS – ODOT Regulatory Property Search
- Property Inventory – Listing of properties within or abutting project
- Remote Property - A Property that is not within or abutting to the Project Limits.
- RM - Regulated Materials
- RMR – Regulated Materials Review
- Take - Act or process of acquiring a permanent right-of-way (ROW)

LAND USE RISK CATEGORIES

Exempt Category
- Agricultural
- Cemetery
- Forested land
- Parks
- Recreation Areas
- Residential
- Undeveloped

Low-Risk Category
- Bank
- Car Dealership (no Automotive Repair)
- Commercial Office Space
- Daycare
- Florist/Landscaper
- Government Office
- Grocery
- Lodging
- Pharmacy
- Physicians/Dentist Office
- Restaurant
- Retail Store
- Railroad, Featureless Track
- Hospitals

High-Risk Category
- Automotive Repair/Service/Oil Change
- Body Shop
- Dry Cleaner
- Electrical Substation
- Gas Stations and Service Station
- Government Maintenance Facilities
- Grain Elevator
- Junkyard/Scrapyard
- Landfill
- Property listed on regulatory databases
- Manufacturing
- Oil/Chemical Warehouse/ Storage
- Railroad Maintenance/Siding
- ANY Industrial Use

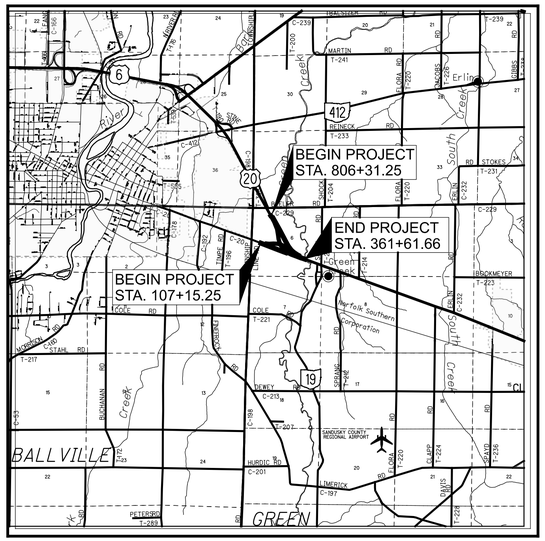
Project Plans

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

SAN-020-20.80

GREEN CREEK TOWNSHIP

SANDUSKY COUNTY



LOCATION MAP

LATITUDE: 41 °20'4.48" LONGITUDE: 83 °03'43"

PORTION TO BE IMPROVED
INTERSTATE HIGHWAY
FEDERAL ROUTES
STATE ROUTES
COUNTY & TOWNSHIP ROADS
OTHER ROADS

DESIGN DESIGNATION

CURRENT ADT (2024)	*19,640*
DESIGN YEAR ADT (2044)	*21,900*
DESIGN HOURLY VOLUME (2044)	*1,890*
DIRECTIONAL DISTRIBUTION	*51%*
TRUCKS (24 HOUR B&C)	*11%*
DESIGN SPEED	*65 MPH*
LEGAL SPEED	*60 MPH*

DESIGN FUNCTIONAL CLASSIFICATION:
RURAL PRINCIPAL ARTERIAL
NHS PROJECT ..... *YES*

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:

MOTT MACDONALD
20445 EMERALD PARKWAY DRIVE, SUITE 100, CLEVELAND, OHIO 44135
PHONE: (216)-535-3640
FAX: (216)-265-2816

INDEX OF SHEETS:

TITLE SHEET	*1*
SCHEMATIC PLAN	*2-5*
TYPICAL SECTIONS	*6-9*
GENERAL NOTES	*10*
MAINTENANCE OF TRAFFIC	*11-12*
PLAN AND PROFILE	*13-42*
CROSS-SECTIONS	*43-127*
SUPERELEVATION TABLE	*128-129*
INTERSECTION DETAILS	*130-134*
TRAFFIC CONTROL	*135-168*
LIGHTING	*169*

FEDERAL PROJECT NUMBER

E200585

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

RECONFIGURATION OF THE EAST INTERCHANGE (U.S. 20/STATE ST.) ON THE FREMONT BY-PASS TO A ROUNDABOUT. THE INTERSECTION OF C.R. 198 AND C.R. 229 WITH U.S. 20 WILL BE CLOSED.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	*13.22 ACRES*
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	*1.00 ACRES*
NOTICE OF INTENT EARTH DISTURBED AREA:	*14.22 ACRES*

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET 12 .

Pat McColley, PE

Pat McColley, P.E., S.I.
District 02 Deputy Director

Jack Marchbanks, PhD

Jack Marchbanks, PhD
Director, Department of Transportation

STANDARD CONSTRUCTION DRAWINGS										*SUPPLEMENTAL SPECIFICATIONS*		*SPECIAL PROVISIONS*
BP-3.1	*1/19/24*	*F-1.1*	*7/19/13*	*HL-10.11*	*7/21/23*	*MT-98.20*	*4/19/19*	*TC-41.30*	*4/21/23*	*800-2023*	*1/19/24*	
BP-3.2	*1/18/19*	*F-3.2*	*7/18/14*	*HL-10.12*	*7/21/23*	*MT-98.29*	*1/17/20*	*TC-42.10*	*10/18/13*	*809*	*1/19/24*	
BP-4.1	*7/19/13*	*F-3.3*	*7/19/13*	*HL-10.13*	*1/20/23*	*MT-99.20*	*4/19/19*	*TC-42.20*	*10/18/13*	*821*	*4/20/12*	
BP-5.1	*7/15/22*	*F-3.4*	*7/19/13*	*HL-10.31*	*7/15/22*	*MT-99.30*	*1/17/20*	*TC-61.10*	*4/21/23*	*825*	*4/21/23*	
BP-9.1	*1/18/19*			*HL-20.11*	*7/21/23*	*MT-101.60*	*4/21/23*	*TC-61.30*	*7/19/19*	*831*	*4/21/23*	
		MGS-1.1	*7/16/21*	*HL-20.21*	*1/15/21*	*MT-101.90*	*7/17/20*	*TC-65.10*	*1/17/14*	*909*	*1/19/24*	
CB-2-2A, 2B, 2C	*1/20/23*	*MGS-2.1*	*1/19/18*	*HL-30.11*	*7/21/23*	*MT-102.20*	*4/19/19*	*TC-65.11*	*1/19/24*	*921*	*4/20/12*	
CB-3A	*7/16/21*	*MGS-4.2*	*7/19/13*	*HL-30.21*	*4/17/20*			*TC-71.10*	*4/21/23*	*931*	*4/21/23*	
		MGS-4.3	*1/18/13*	*HL-30.22*	*1/15/21*	*TC-12.31*	*4/15/22*	*TC-72.20*	*7/21/23*			
DM-1.1	*7/17/20*	*MGS-5.2*	*7/15/16*	*HL-40.20*	*1/19/24*	*TC-15.116*	*1/19/24*	*TC-73.20*	*7/21/23*			
DM-1.2	*7/16/21*	*MGS-5.3*	*7/15/16*	*HL-50.11*	*1/16/15*	*TC-21.11*	*7/16/21*					
DM-4.1	*7/17/20*			*HL-60.21*	*7/20/18*	*TC-21.21*	*1/20/23*	*HW-1.1*	*7/19/24*			
DM-4.2	*7/20/12*	*MH-3*	*1/19/24*			*TC-22.10*	*4/21/23*	*HW-2.2*	*7/20/18*			
DM-4.3	*1/15/16*			*MT-95.30*	*7/19/19*	*TC-22.20*	*1/17/14*					
DM-4.4	*1/15/16*	*RM-1.1*	*1/20/23*	*MT-95.45*	*7/21/23*	*TC-41.10*	*7/19/13*					
		RM-3.1	*7/20/18*	*MT-95.50*	*7/21/17*	*TC-41.20*	*10/18/13*					

TITLE SHEET

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
SMS

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.1 | TOTAL 169

CTY-RTE-SECTION

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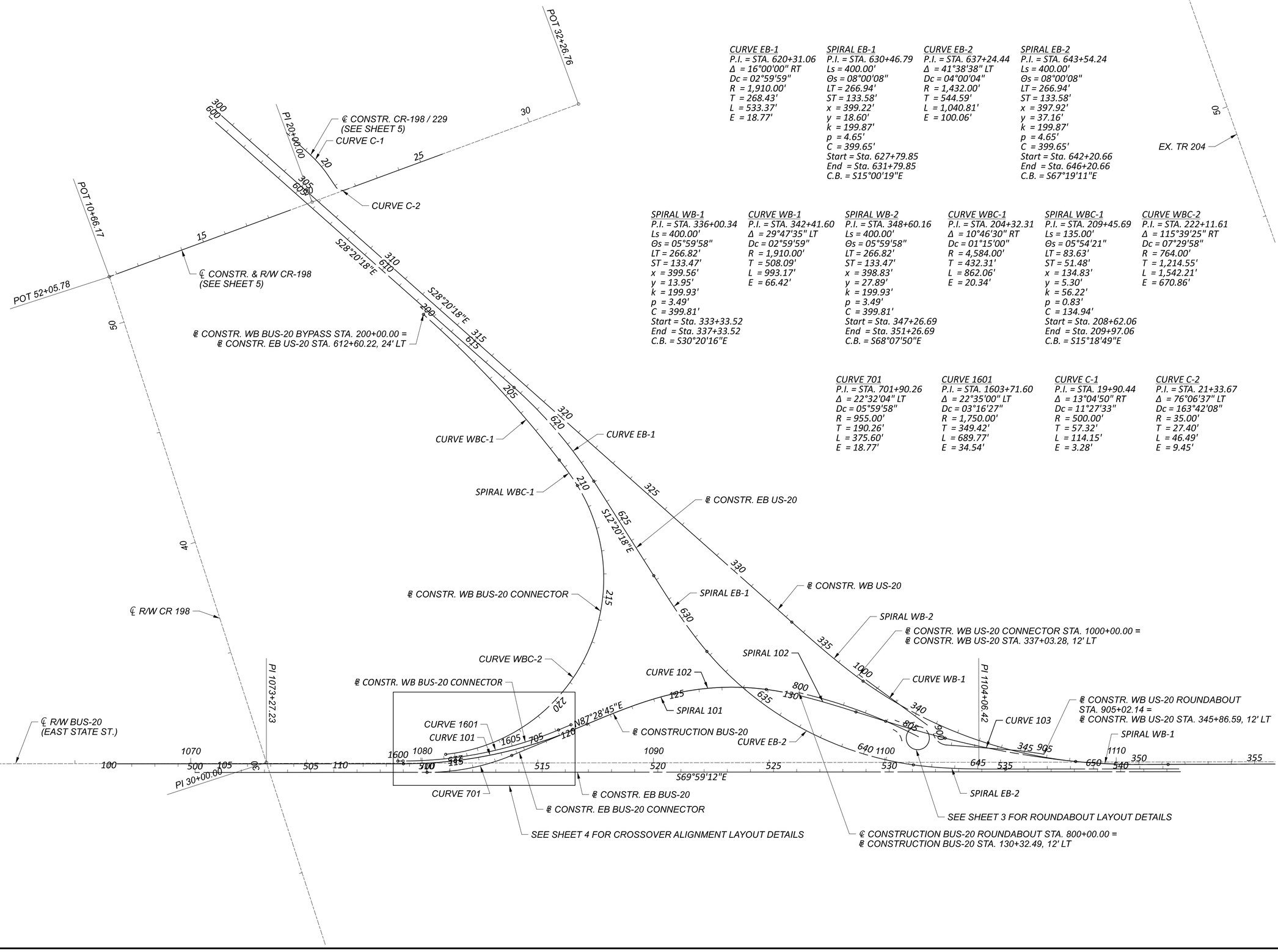

CURVE EB-1
P.I. = STA. 620+31.06
Δ = 16°00'00" RT
Dc = 02°59'59"
R = 1,910.00'
T = 268.43'
L = 533.37'
E = 18.77'

SPIRAL EB-1
P.I. = STA. 630+46.79
Ls = 400.00'
Θs = 08°00'08"
LT = 266.94'
ST = 133.58'
x = 399.22'
y = 18.60'
k = 199.87'
p = 4.65'
C = 399.65'
Start = Sta. 627+79.85
End = Sta. 631+79.85
C.B. = S15°00'19"E

CURVE EB-2
P.I. = STA. 637+24.44
Δ = 41°38'38" LT
Dc = 04°00'04"
R = 1,432.00'
T = 544.59'
L = 1,040.81'
E = 100.06'

SPIRAL EB-2
P.I. = STA. 643+54.24
Ls = 400.00'
Θs = 08°00'08"
LT = 266.94'
ST = 133.58'
x = 397.92'
y = 37.16'
k = 199.87'
p = 4.65'
C = 399.65'
Start = Sta. 642+20.66
End = Sta. 646+20.66
C.B. = S67°19'11"E

SPIRAL WB-1
P.I. = STA. 336+00.34
Ls = 400.00'
Θs = 05°59'58"
LT = 266.82'
ST = 133.47'
x = 399.56'
y = 13.95'
k = 199.93'
p = 3.49'
C = 399.81'
Start = Sta. 333+33.52
End = Sta. 337+33.52
C.B. = S30°20'16"E

CURVE WB-1
P.I. = STA. 342+41.60
Δ = 29°47'35" LT
Dc = 02°59'59"
R = 1,910.00'
T = 508.09'
L = 993.17'
E = 66.42'

SPIRAL WB-2
P.I. = STA. 348+60.16
Ls = 400.00'
Θs = 05°59'58"
LT = 266.82'
ST = 133.47'
x = 398.83'
y = 27.89'
k = 199.93'
p = 3.49'
C = 399.81'
Start = Sta. 347+26.69
End = Sta. 351+26.69
C.B. = S68°07'50"E

CURVE WBC-1
P.I. = STA. 204+32.31
Δ = 10°46'30" RT
Dc = 01°15'00"
R = 4,584.00'
T = 432.31'
L = 862.06'
E = 20.34'

SPIRAL WBC-1
P.I. = STA. 209+45.69
Ls = 135.00'
Θs = 05°54'21"
LT = 83.63'
ST = 51.48'
x = 134.83'
y = 5.30'
k = 56.22'
p = 0.83'
C = 134.94'
Start = Sta. 208+62.06
End = Sta. 209+97.06
C.B. = S15°18'49"E

CURVE WBC-2
P.I. = STA. 222+11.61
Δ = 115°39'25" RT
Dc = 07°29'58"
R = 764.00'
T = 1,214.55'
L = 1,542.21'
E = 670.86'

CURVE 701
P.I. = STA. 701+90.26
Δ = 22°32'04" LT
Dc = 05°59'58"
R = 955.00'
T = 190.26'
L = 375.60'
E = 18.77'

CURVE 1601
P.I. = STA. 1603+71.60
Δ = 22°35'00" LT
Dc = 03°16'27"
R = 1,750.00'
T = 349.42'
L = 689.77'
E = 34.54'

CURVE C-1
P.I. = STA. 19+90.44
Δ = 13°04'50" RT
Dc = 11°27'33"
R = 500.00'
T = 57.32'
L = 114.15'
E = 3.28'

CURVE C-2
P.I. = STA. 21+33.67
Δ = 76°06'37" LT
Dc = 163°42'08"
R = 35.00'
T = 27.40'
L = 46.49'
E = 9.45'

HORIZONTAL SCALE IN FEET
0 100 200 400

PROJECT SCHEMATIC

CTY-RTE-SECTION

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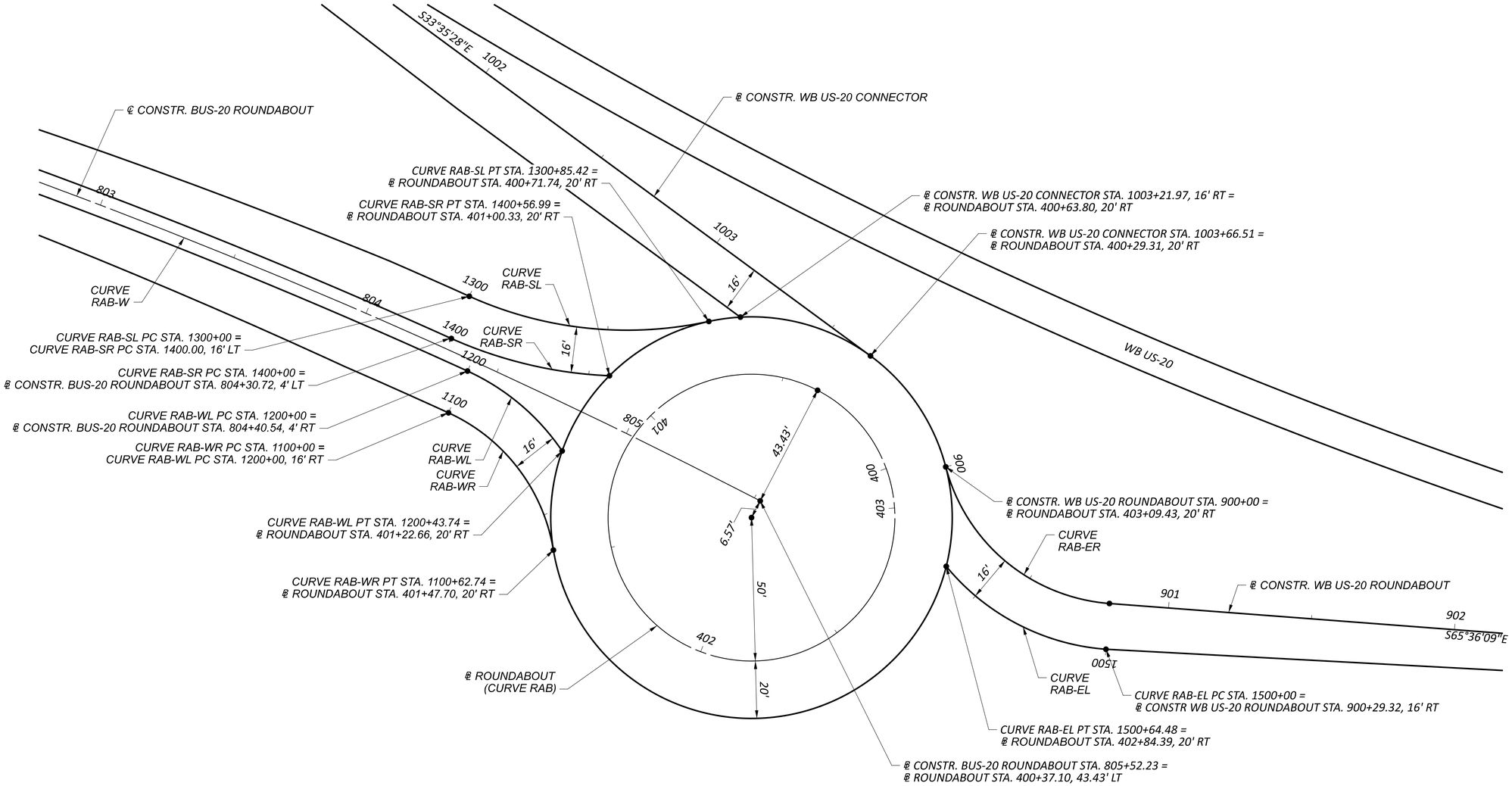
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER SMS
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.2 TOTAL 169



CURVE RAB	CURVE RAB-W	CURVE RAB-WR	CURVE RAB-WL	CURVE RAB-SL	CURVE RAB-SR	CURVE RAB-EL	CURVE RAB-ER
P.I. = STA. 400+00.00	P.I. = STA. 802+77.58	P.I. = STA. 1100+34.15	P.I. = STA. 1200+22.43	P.I. = STA. 1300+44.22	P.I. = STA. 1400+29.05	P.I. = STA. 1500+34.11	P.I. = STA. 900+45.67
Δ = 360°00'00" LT	Δ = 14°22'56" RT	Δ = 56°10'06" RT	Δ = 31°19'36" RT	Δ = 36°31'28" LT	Δ = 21°46'08" LT	Δ = 46°10'44" RT	Δ = 71°01'19" LT
Dc = 114°35'30"	Dc = 02°36'16"	Dc = 89°31'29"	Dc = 71°37'11"	Dc = 42°45'29"	Dc = 38°11'50"	Dc = 71°37'11"	Dc = 89°31'29"
R = 50.00'	R = 2,200.00'	R = 64.00'	R = 80.00'	R = 134.00'	R = 150.00'	R = 80.00'	R = 64.00'
T = 0.00'	T = 277.58'	T = 34.15'	T = 22.43'	T = 44.22'	T = 28.84'	T = 34.11'	T = 45.67'
L = 314.16'	L = 552.23'	L = 62.74'	L = 43.74'	L = 85.42'	L = 56.99'	L = 64.48'	L = 79.33'
E = 0.00'	E = 17.44'	E = 8.54'	E = 3.09'	E = 7.11'	E = 2.75'	E = 6.97'	E = 14.62'

NOTES:

1. SEE SHEET 2 FOR PROJECT SCHEMATIC

HORIZONTAL SCALE IN FEET
0 10 20 40

ROUNDABOUT SCHEMATIC

CTY-RTE-SECTION

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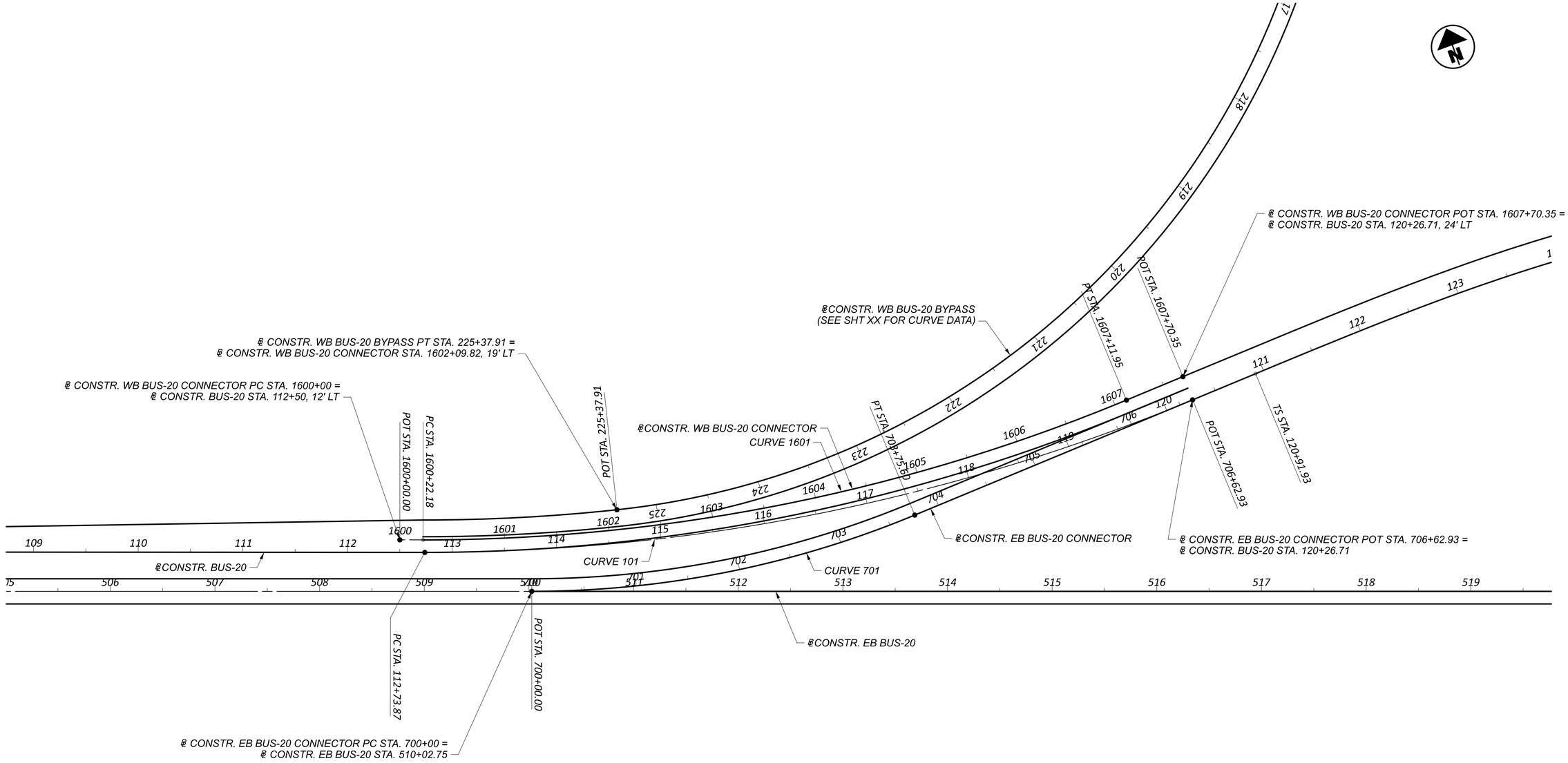
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER SMS
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.3 TOTAL 169



HORIZONTAL SCALE IN FEET
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CROSSOVER SCHEMATIC

CURVE 101
P.I. = STA. 116+55.24
Δ = 22°35'00" LT
Dc = 02°59'59"
R = 1,910.00'
T = 381.37'
L = 752.83'
E = 37.70'

CURVE 1601
P.I. = STA. 1603+71.60
Δ = 22°35'00" LT
Dc = 03°16'27"
R = 1,750.00'
T = 349.42'
L = 689.77'
E = 34.54'

CURVE 701
P.I. = STA. 701+90.26
Δ = 22°32'04" LT
Dc = 05°59'58"
R = 955.00'
T = 190.26'
L = 375.60'
E = 18.77'

NOTES:

1. SEE SHEET 2 FOR PROJECT SCHEMATIC
2. SEE SHEET 3 FOR ROUNDABOUT SCHEMATIC

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER: SMS
REVIEWER: SJP 07/26/24
PROJECT ID: 112222
SHEET: P.4 TOTAL: 169

CTY-RTE-SECTION

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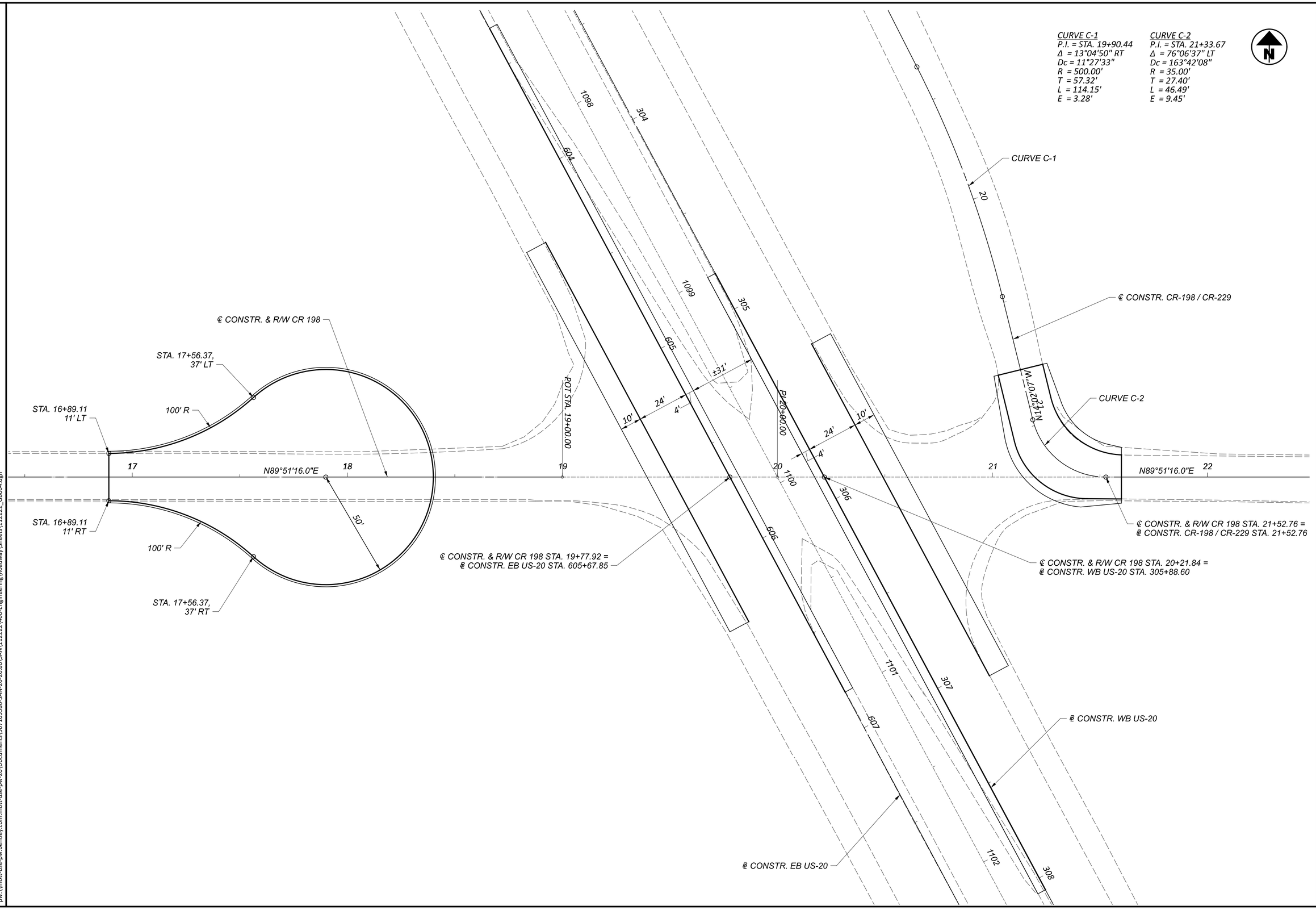

CR-198 SCHEMATIC

CTY-RTE-SECTION

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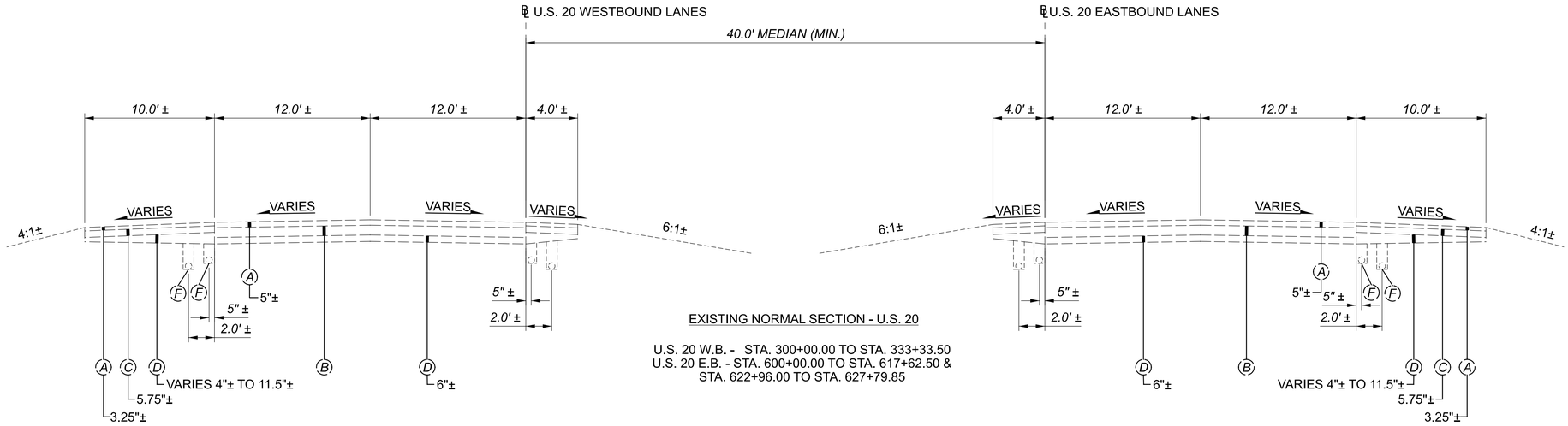
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER SMS

REVIEWER SJP 07/26/24

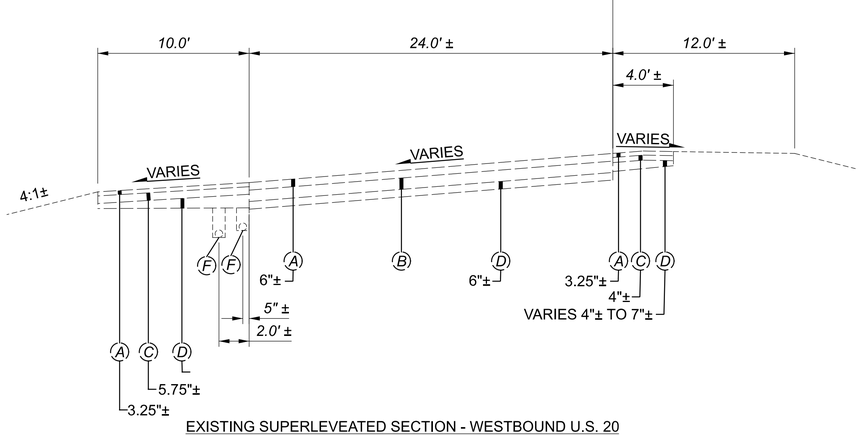
PROJECT ID 112222

SHEET P.5 TOTAL 169



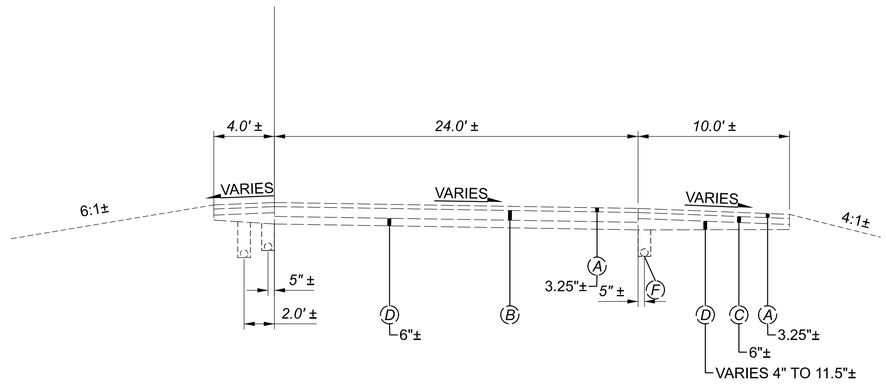
EXISTING NORMAL SECTION - U.S. 20

U.S. 20 W.B. - STA. 300+00.00 TO STA. 333+33.50
U.S. 20 E.B. - STA. 600+00.00 TO STA. 617+62.50 &
STA. 622+96.00 TO STA. 627+79.85



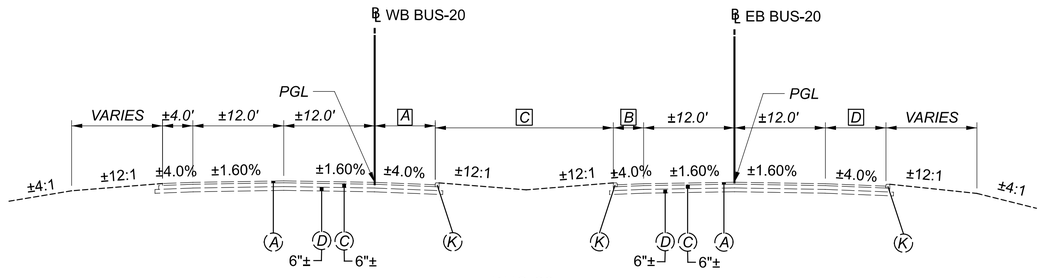
EXISTING SUPERLEVEATED SECTION - WESTBOUND U.S. 20

U.S. 20 W.B. - STA. 333+33.50 TO STA. 344+35.00



EXISTING SUPERELEVATED SECTION - EASTBOUND U.S. 20

U.S. 20 E.B. - STA. 617+62.50 TO STA. 622+96.00 &
STA. 627+79.85 TO STA. 641+10.00



BUS-20

WB BUS-20: STA. 107+15.25 TO STA. 112+72.18
EB BUS-20: STA 503+53.90 TO STA. 510+02.75

EXISTING LEGEND

- (A) EXISTING ASPHALT (THICKNESS SHOWN)
- (B) 9"± REINFORCED CONCRETE PAVEMENT
- (C) BITUMINOUS AGGREGATE BASE (THICKNESS SHOWN)
- (D) AGGREGATE BASE (THICKNESS SHOWN)
- (E) GUARDRAIL
- (F) 6" UNDERDRAIN
- (G) 8"± ASPHALT CONCRETE BASE
- (H) 6"± SUBBASE
- (I) 15" REINFORCED CONCRETE APPROACH SLAB
- (J) STABILIZED CRUSHED AGGREGATE
- (K) 4" CURB
- (L) AGGREGATE DRAINS

EXISTING TYPICAL SECTIONS

CTY-RTE-SECTION

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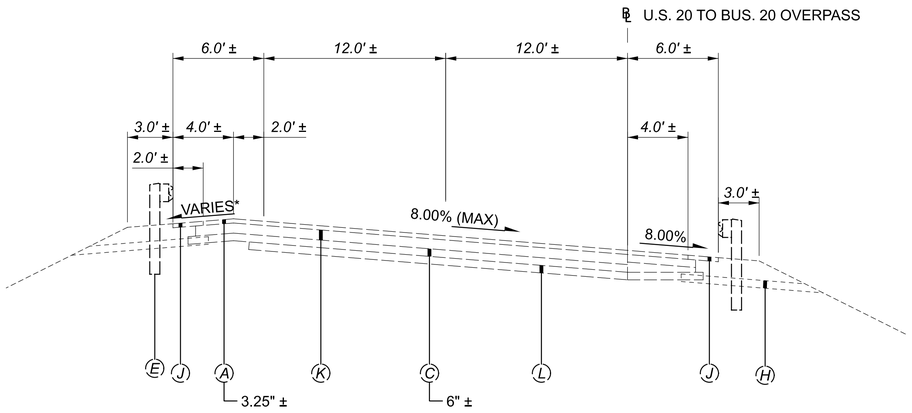
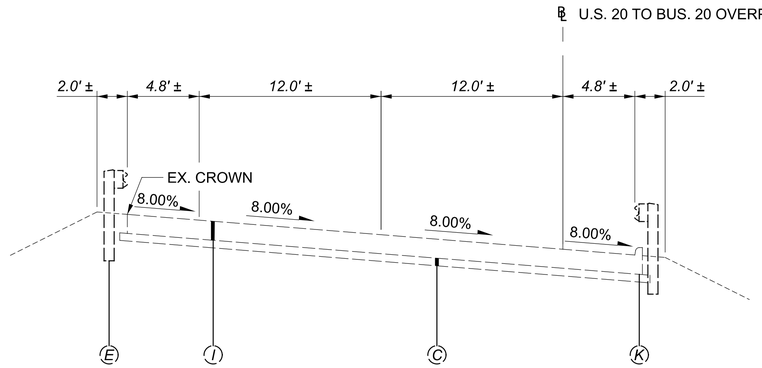
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135
DESIGNER
SMS
REVIEWER
SJP 07/26/24
PROJECT ID
112222



EXISTING NORMAL SECTION - WESTBOUND U.S. 20 TO BUS 20

℄ U.S. 20 TO BUS. 20 OVERPASS - STA. 120+26.70 TO STA. 126+45.00
STA. 128+96.00 TO STA. 130+32.50

* - TRANSITIONS BETWEEN APPROACH SLAB AND ROADWAY LIMITS



EXISTING APPROACH SLAB SECTION - WESTOUND U.S. TO BUS 20

℄ U.S. 20 TO BUS. 20 OVERPASS - STA. 126+45.00 TO STA. 126+71.00
STA. 128+70.00 TO STA. 128+96.00

NOTE:

FOR EXISTING LEGEND, SEE SHEET P.6

EXISTING TYPICAL SECTIONS

CTY-RTE-SECTION

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DESIGN AGENCY
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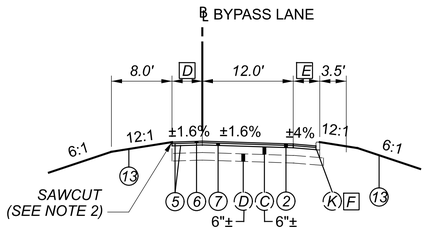
DESIGNER
SMS

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.7 | TOTAL 169



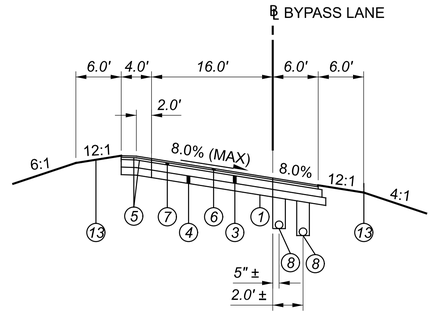
EASTBOUND BUS-20 (E. STATE STREET) BYPASS LANE

STA. 510+02.75 TO STA. 529+90.00

D *0' FROM STA. 510+02.75 TO STA. 511+54.00*
4.0' FROM STA. 511+54.00 TO STA. 529+00.00

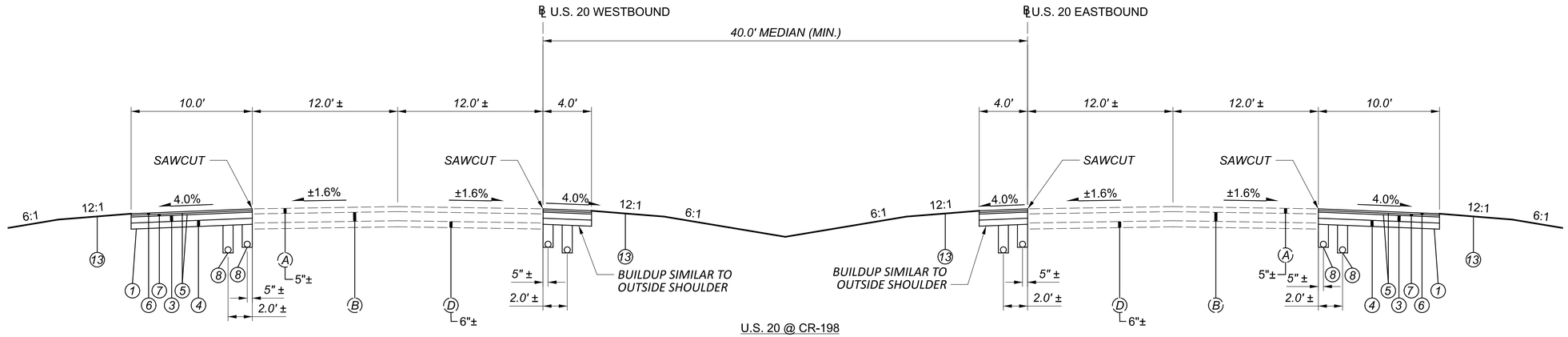
E *VARIES 7.5' TO 2.0' FROM STA. 510+02.75 TO STA. 510+76.50*
2.0' FROM STA. 510+76.50 TO STA. 514+03.20
4.0' FROM STA. 514+03.20 TO STA. 527+00.00
VARIES 4.0' TO 12.0' FROM STA. 527+00.00 TO STA. 529+00.00

F *EXIST 4" CURB ENDS AT STA. 513+53.60*



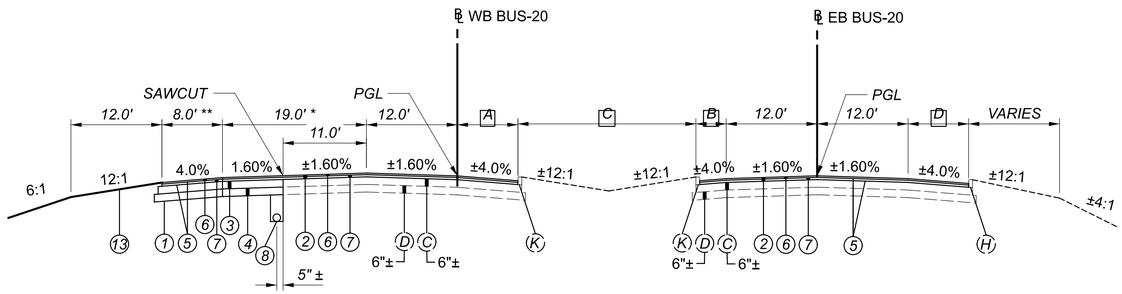
WB BUS-20 (E. STATE STREET) BYPASS LANE

STA. 207+22.52 TO STA. 223+04.79



U.S. 20 @ CR-198

U.S. 20 W.B. - STA. 304+81.26 TO STA. 308+06.24
U.S. 20 E.B. - STA. 603+31.24 TO STA. 606+81.24



BUS-20

WB BUS-20: STA. 107+15.25 TO STA. 112+72.18
EB BUS-20: STA 503+53.90 TO STA. 510+02.75

* *PAVEMENT TAPER*

WB BUS-20: STA. 108+52.18 TO STA. 112+72.18 FROM 12.0' TO 19.0'

** *SHOULDER TAPER*

WB BUS-20: STA. 107+53.90 TO STA. 108+53.90 FROM 3.0' TO 6.0'

A *±13.5' FROM STA. 107+15.25 TO STA. 107+84*
VARIES ± 2.0' TO ±12.0' FROM STA. 107+84 TO STA. 108+49
VARIES ±12.0' TO ±6.5' FROM STA. 108+48 TO STA. 109+84
±6.5' FROM STA. 110+27 TO STA. 112+72.18

B *0' FROM STA. 503+53.90 TO STA. 504+11*
VARIES ±7.0' TO ±3.5' FROM STA. 504+11 TO STA. 505+13
±3.5' FROM STA. 505+13 TO STA. 510+02.75

C *VARIES ±4.0' MIN TO ±15.0' MAX*

D *±2.0' FROM STA. 503+92 TO STA. 507+47*
VARIES ±2.0' TO ±12.0' FROM STA. 507+47 TO STA. 509+12
VARIES ±12.0' TO ±7.0' FROM STA. 509+12 TO 510+02.75

NOTES:

1. SEE SHEET 6 FOR EXISTING LEGEND

2. REMOVE EXISTING PAVEMENT BEYOND SAWCUT.

PROPOSED LEGEND

1. ITEM 204 - SUBGRADE COMPACTION
2. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (3")
3. ITEM 302 - 9" ASPHALT CONCRETE BASE, (449), PG64-22
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 407 - TACK COAT
6. ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 2.5mm, TYPE A, (449)
7. ITEM 442 - 1.5" ASPHALT CONCRETE INTERMEDIATE COURSE, 19mm, TYPE A, (449)
8. ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC
9. ITEM 606 - GUARDRAIL, TYPE MGS
10. ITEM 609 - CURB, TYPE 3-B
11. ITEM 609 - CURB, TYPE 6
12. ITEM 609 - COMBINATION CURB & GUTTER, TYPE 2
13. ITEM 659 - SEEDING & MULCHING

PROPOSED TYPICAL SECTIONS

DESIGN AGENCY

DESIGNER SMS
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.8 TOTAL 169

CTY-RTE-SECTION

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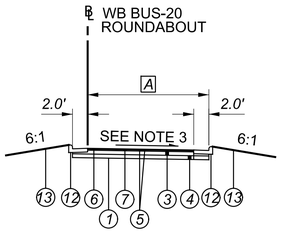
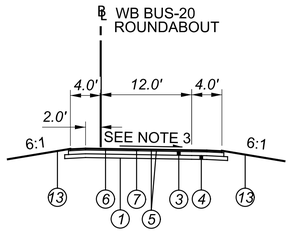


WB US-20 TO RAB

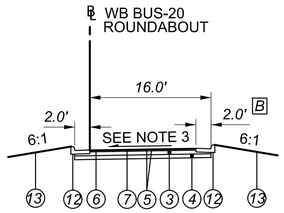
STA. 900+00.00 TO STA. 902+59.32

A *16.0' TO 12.0' FROM STA. 900+00.00 TO STA. 902+59.32*



WB US-20 TO RAB

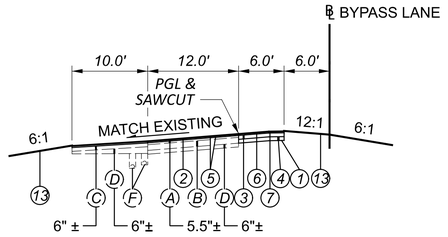
STA. 902+59.32 TO STA. 903+45.32



RAB TO WB US-20

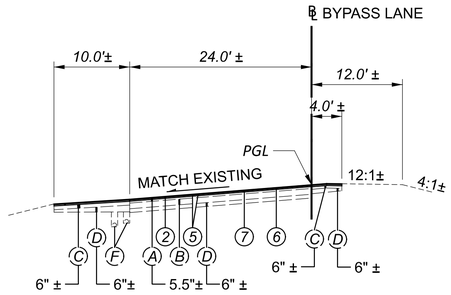
STA. 1002+35.05 TO STA. 1003+66.51

B *4.0' TO 2.0' FROM STA. 1002+35.05 TO STA. 1002+43.05*



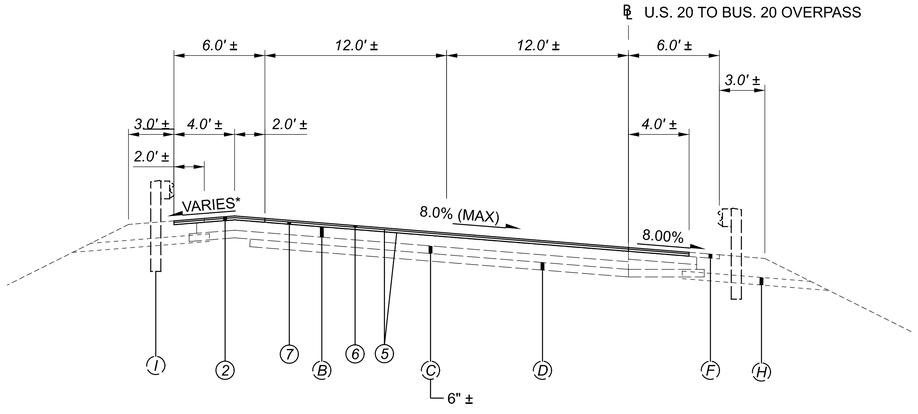
WESTBOUND US 20

STA. 339+40.38 TO STA. 344+28.57



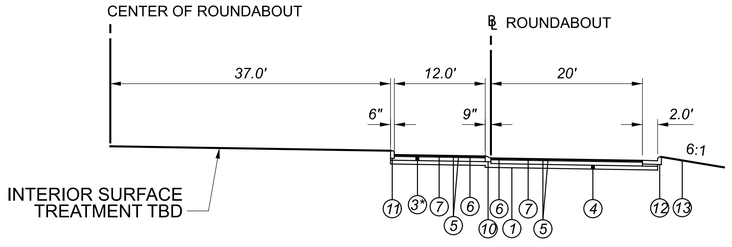
WESTBOUND US 20

STA. 334+00.00 TO STA. 337+03.28
STA. 345+86.89 TO STA. 351+61.66



BUS-20 TO TO WB BUS 20 (E STATE STREET)
EB BUS 20 (E STATE STREET) TO ROUNDABOUT

℄ U.S. 20 TO BUS. 20 OVERPASS - STA. 120+26.70 TO STA. 130+32.50



ROUNDABOUT

STA. 400+00.00 TO STA. 403+14.16

NOTES:

1. SEE SHEET 6 FOR EXISTING LEGEND

2. SEE SHEET 8 FOR PROPOSED LEGEND

3. SEE SUPERELEVATION TABLES

PROPOSED TYPICAL SECTIONS

CTY-RTE-SECTION

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DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
SMS

REVIEWER
SJP 07/26/24

PROJECT ID
112222

ROUNDING

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

UTILITIES

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

ELECTRIC

TOLEDO EDISON
ATTN: RANDALL SWOPE
6099 ANGOLA RD.
HOLLAND, OH 43528
(419) 249-5218
rrswope@firstenergycorp.com

WATER

NORTHERN OHIO RURAL WATER
ATTN: MICHAEL BRAUN
2205 US HIGHWAY 20 E.
NORWALK, OH 44857
(419) 249-5218
mbraun@norw.org

TELEPHONE

AT&T
ATTN: ROBERT FEY
130 N. ERIE ST. RM 714
TOLEDO, OH 43624
(419) 245-5004
rf281@att.com

GAS

COLUMBIA GAS
ATTN: NATHAN BEINING
1208 DICKINSON ST.
FREMONT, OH 43402
(419) 266-7092
nbeining@nisource.org

CABLE

CHARTER COMMUNICATIONS
ATTN: TED CLARK
576 TERNES AVENUE
ELYRIA, OH 44035
(216) 575-8016
theodore.clark@charter.com

FRONTIER
300 W. GYPSY LANE RD.
BOWLING GREEN, OH 43402
(419) 354-9452

BUCKEYE CABLEVISON
ATTN: MICHAEL SHEAHAN
2700 OREGON RD.
NORTHWOOD, OH 43519
(419) 724-3713
msheahan@telesystem.us

GREEN CREEK TOWNSHIP
3106 LIMERICK RD.
CLYDE, OH 43410
(419) 547-0363

RILEY TOWNSHIP
3109 STATE ROUTE 412
FREMONT, OH 43420
(419) 334-2468

SANDUSKY COUNTY SANITARY ENGINEER
ATTN: ZACHARY MULDER
2100 COUNTRYSIDE PLACE
FREMONT, OH 43420
(419) 332-9967
mulder_zach@co.sandusky.oh.us

SANDUSKY COUNTY ENGINEER
ATTN: CARLOS BAEZ
2500 WEST STATE STREET
FREMONT, OH 43420
(419) 334-9731
cbaez@co.sandusky.oh.us

CITY OF FREMONT
ATTN: TUCKER FREDERICKSEN
323 SOUTH FRONT STREET
FREMONT, OH 43420
(419) 334-5900
tfredericksen@fremontohio.org

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET XX FOR TABLE CONTAINING PROJECT CONTROL INFORMATION.

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

PROJECT CONTROL

POSITIONING METHOD: GPS
MONUMENT TYPE: CONCRETE MONUMENT SET WITH ODOT DISC

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID12B

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS80
MAP PROJECTION: Lambert Conformal Conic
COORDINATE SYSTEM: OHIO STATE PLANE, NORTH ZONE
COMBINED SCALE FACTOR: 0.99989686
PROJECT ADJUSTMENT FACTOR: 1.00010315
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.

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DESIGNER
SMS

REVIEWER
SJP 07/26/24

PROJECT ID
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SUGGESTED SEQUENCE OF CONSTRUCTION

AT LEAST ONE LANE OF TRAFFIC WILL BE MAINTAINED AT ALL TIMES ON US-20 & EB EAST STATE STREET. CLOSE THE CONNECTION FROM WB US-20 TO EAST STATE STREET TO ALLOW FOR CONSTRUCTION OF THE ROUNDABOUT, BYPASS LANES AND CROSS-OVERS.
CR-198 / CR-229 INTERSECTION WITH US-20 TO BE CLOSED UPON COMPLETION, AND OPENING, OF THE ROUNDABOUT AND CONNECTIONS.

PHASE 1 CONSTRUCTION

CONSTRUCT ROUNDABOUT, BYPASS LANES AND CROSS-OVERS.

PHASE 1 TRAFFIC

ONE LANE OF WB US-20 WILL BE CLOSED APPROACHING THE EXIT RAMP TO WB BUS-20 (EAST STATE STREET)CLOSE WB US-20 RAMP TO BUS-20 AND DETOUR TRAFFIC. CLOSE LEFT LANE OF EB BUS-20 AT THE INTERSECTION WITH CR-198.

PHASE 2 CONSTRUCTION

CLOSE THE INTERSECTION OF CR-198 / CR-229 & US-20.
CONSTRUCT CUL-DE-SAC AND RE-ALIGN CR-198. REMOVE INTERSECTION AND US-20 MEDIAN PAVEMENT FROM THE INTERSECTION AND REPLACE WITH A GRASS MEDIAN.

PHASE 2 TRAFFIC

THE ROUNDABOUT WILL BE OPENED TO TRAFFIC. ALL BYPASS LANES WILL BE OPEN TO TRAFFIC. THE INTERSRECTION OF CR-198 / CR-229 WITH US-20 WILL BE CLOSED, PERMANENTLY.
FOR CR 198/CR 229/US 20 EAST SIDE CONSTRUCTION: CLOSE CR 229 TO THRU TRAFFIC AT CR 232 (ERLIN RD.) DETOUR SOUTH TO WB US 20. USE ROUNDABOUT, WHICH WILL BE BUILT IN PHASE 1 TO GET TO BUS 20 AND BACK TO CR 198.
FOR CR 198/US 20 WEST SIDE CONSTRUCTION: CLOSE CR 198 TO THRU TRAFFIC AT BUS 20. DETOUR EAST TO CR 232 (ERLIN RD.) USING NEW ROUNDABOUT.

PHASE 3 CONSTRUCTION

RESURFACE PORTIONS OF US-20 & BUS-20 (EAST STATE STREET) AS SHOWN IN THE PLANS.

PHASE 3 TRAFFIC

AT LEAST ONE LANE OF US-20 AND BUS-20 (EAST STATE STREET) IN ALL DIRECTIONS TO REMAIN OPEN DURING RESURFACING OPERATIONS. FOLLOW SCD MT-XX.XX, MT-XX.XX & MT-XX.XX TO MAINTAIN TRAFFIC.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTICE OF CLOSURE SIGN TIME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
START OF CONSTRUCTION	N/A	14 CALENDAR DAYS PRIOR TO TRAFFIC PATTERN CHANGES IMPLEMENTATION.

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

ITEM 614 - MAINTAINING TRAFFFIC

ALL EXISTING LANES, INCLUDING RAMPS, SHALL BE OPEN AND AVAILABLE TO TRAFFIC IN THE ORIGINAL OR PROPOSED FINAL ALIGNMENT BETWEEN [OCTOBER 15] AND [APRIL 1]. SHOULD THE CONTRACTOR FAIL TO MEET THESE REQUIREMENTS, A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $265 PER LANE PER CALENDAR DAY.

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.

NOTICE OF CLOSURE SIGN TIME TABLE

ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURES	≥ 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	>12 HOURS & <2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	≤ 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

MAINTENANCE OF TRAFFIC GENERAL NOTES

CTY-RTE-SECTION

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MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER SMS
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.11 TOTAL 169

1

DETOUR

M4-8-24

WEST

M3-4-24

STATE ST

D3-1-18

2

DETOUR

M4-8-24

WEST

M3-4-24

STATE ST

D3-1-18

M5-1-21

3

DETOUR

M4-8-24

WEST

M3-4-24

STATE ST

D3-1-18

M6-1-21

4

DETOUR

M4-8-24

WEST

M3-4-24

STATE ST

D3-1-18

M6-3-21

5

ROAD CLOSED

R11-2-48

DETOUR

M4-10R-48

6

DETOUR AHEAD

W20-2-36

STATE ST

D3-1-18

7

END DETOUR

M4-8a-24

WEST

M3-4-24

STATE ST

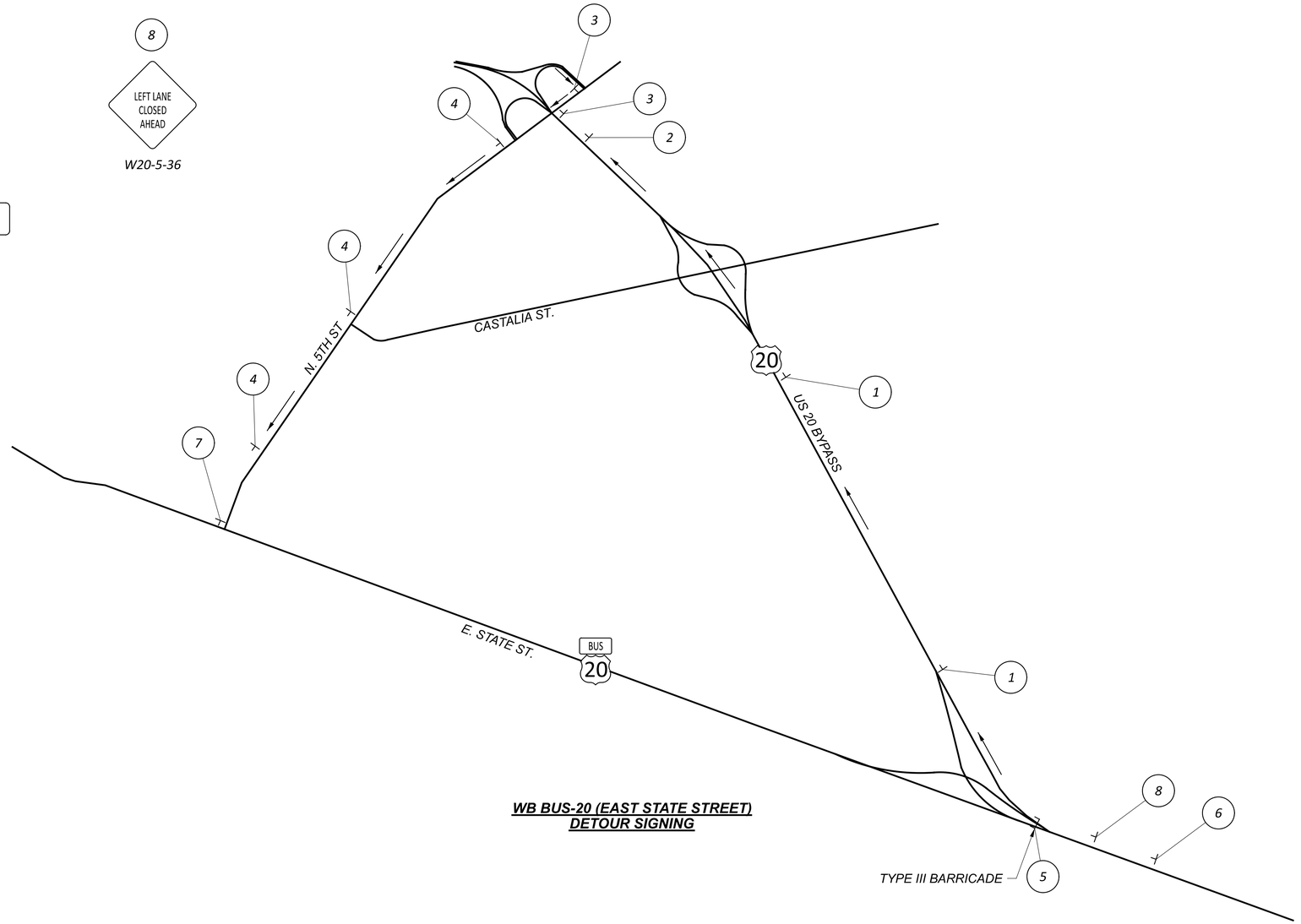
D3-1-18

8

LEFT LANE CLOSED AHEAD

W20-5-36

FOR MAINTENANCE OF TRAFFIC, SEE SHEET P.0



WB BUS-20 (EAST STATE STREET) DETOUR SIGNING

HORIZONTAL SCALE IN FEET
0 500 1000 2000

DETOUR PLAN

CTY-RTE-SECTION

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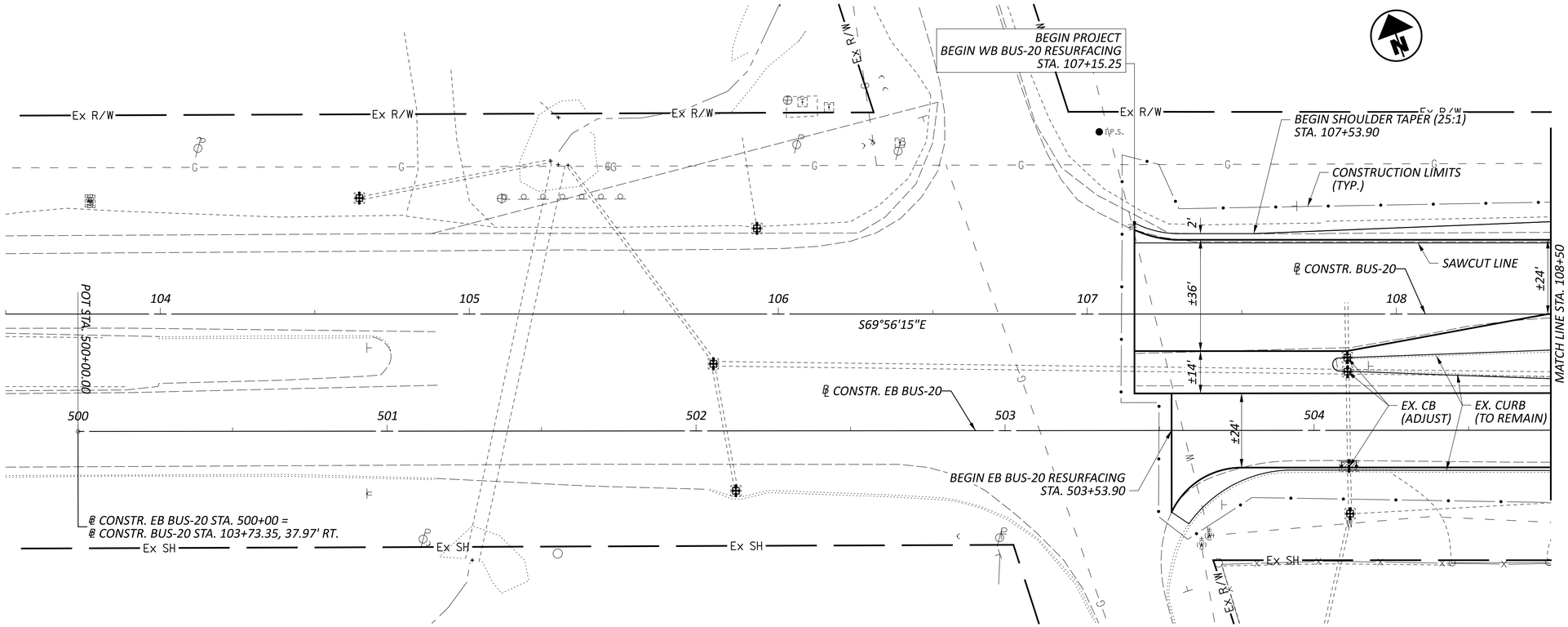
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

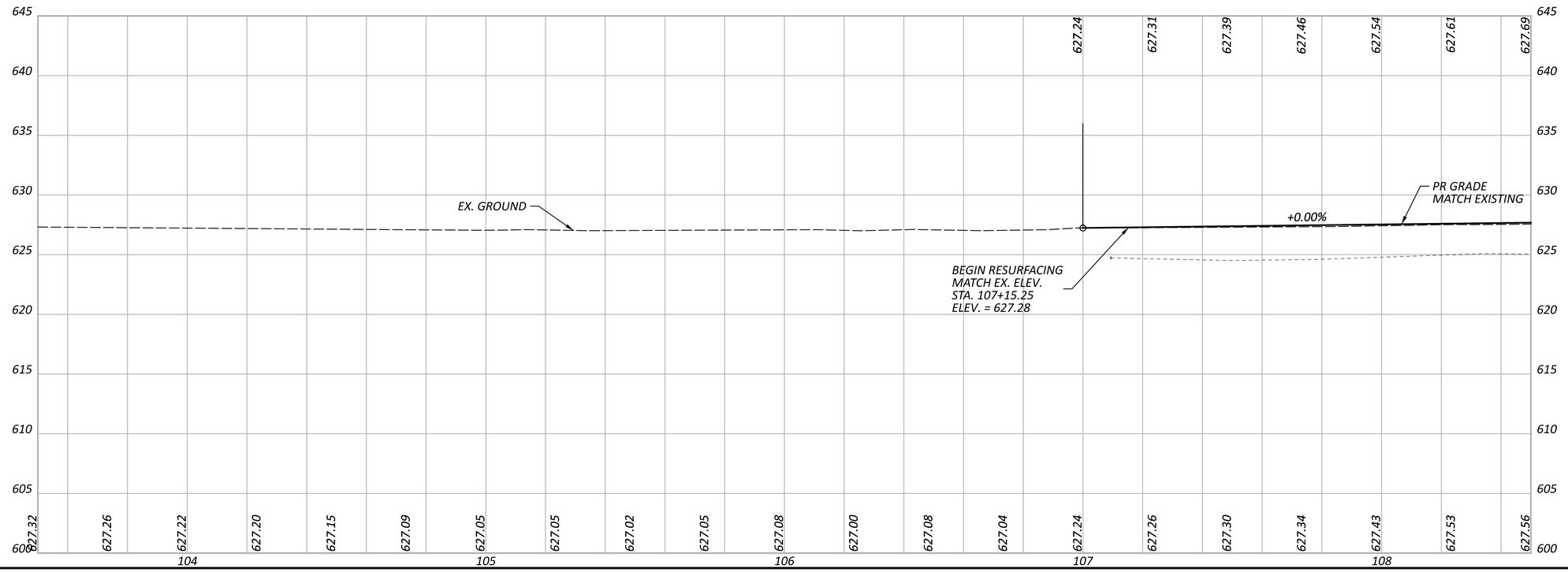
DESIGNER SMS

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.12 TOTAL 169





HORIZONTAL
SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - BUS-20
BEGIN PROJECT TO STA. 108+50

CTY-RTE-SECTION

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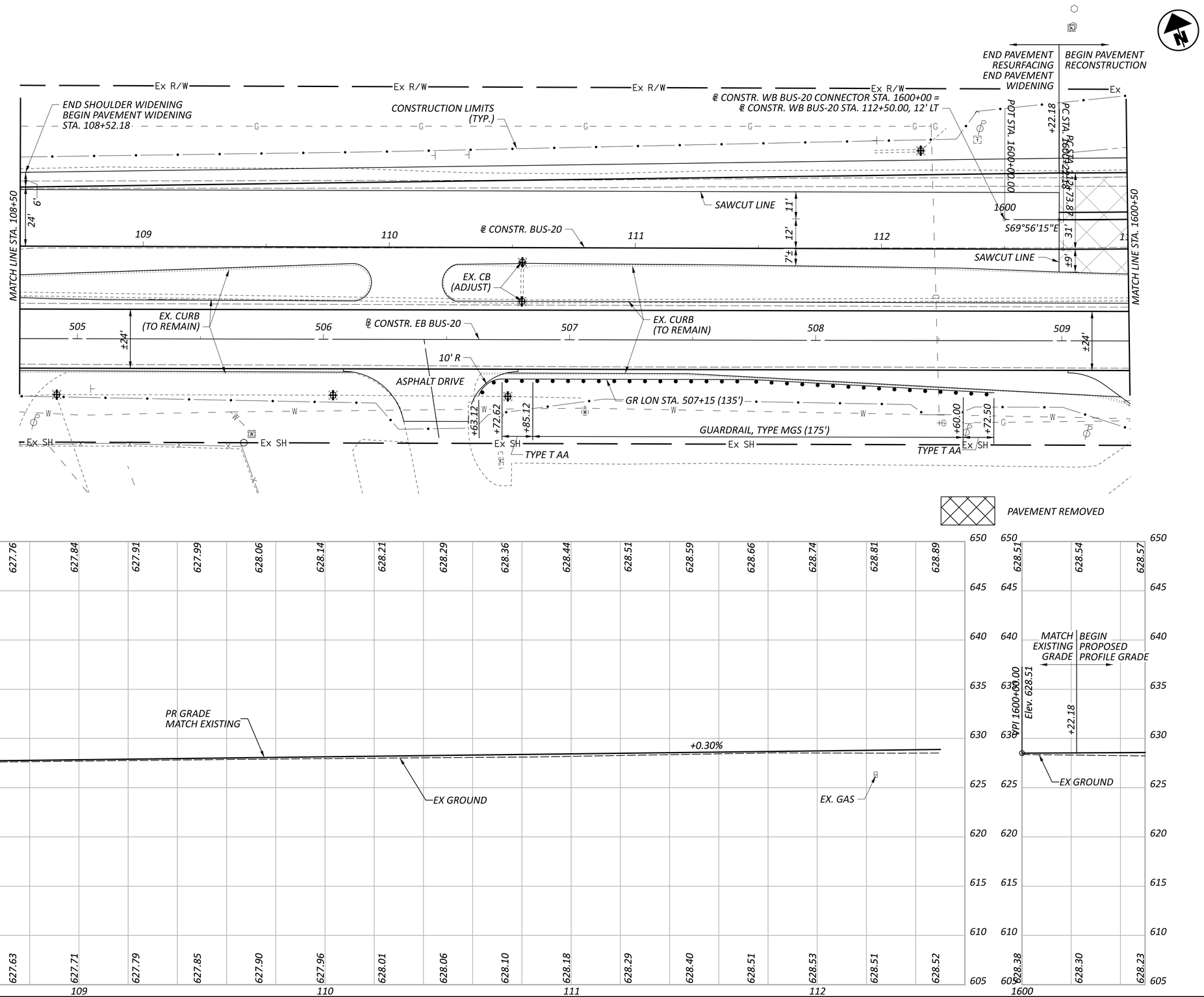
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.13 TOTAL 169



HORIZONTAL
SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - BUS 20
STA. 108+50 TO STA. BUS-20 CONN STA. 1601+00

CTY-RTE-SECTION

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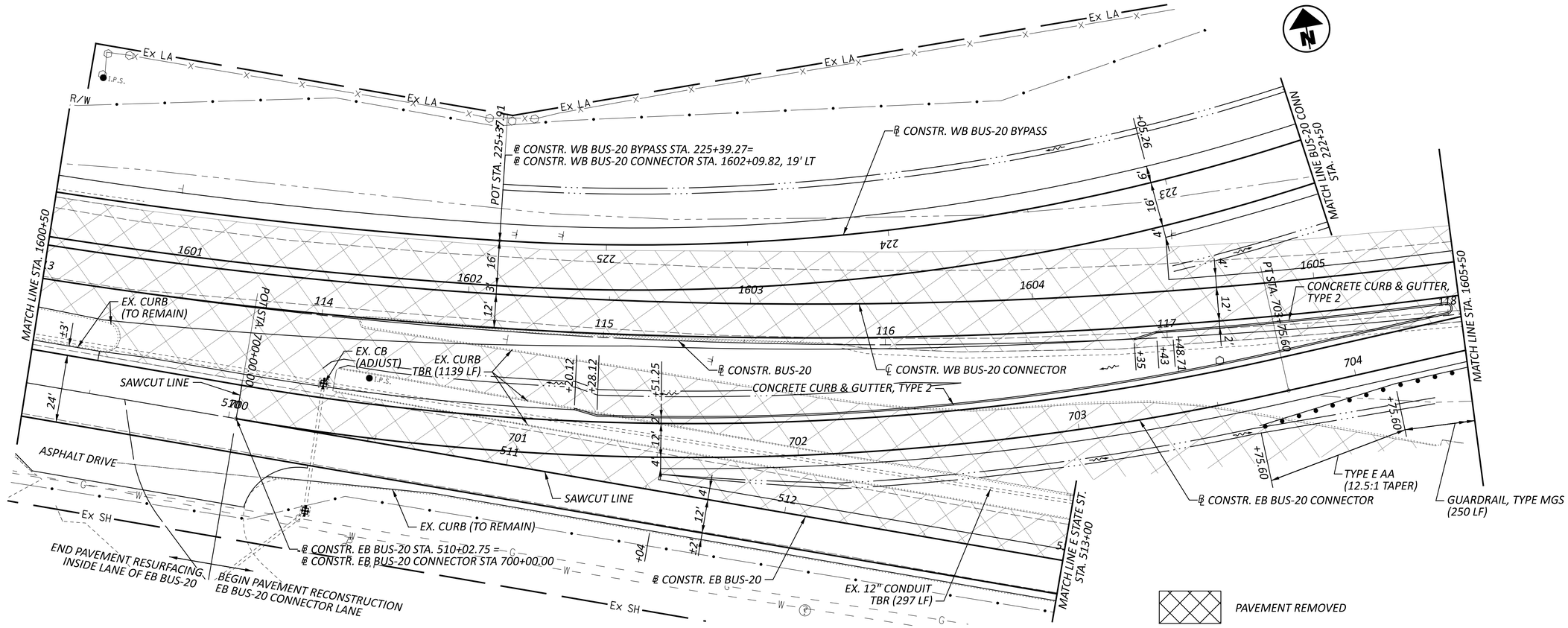
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.14 TOTAL 169



HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - BUS-20
STA. 1600+50 TO STA. 1605+50

CTY-RTE-SECTION

MODEL: 112222_GP004 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:04:32 PM USER: PIA81677
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DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER TEH
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.15 TOTAL 169

PLAN AND PROFILE - BUS-20
STA 1605+50 TO STA 123+50

HORIZONTAL SCALE IN FEET
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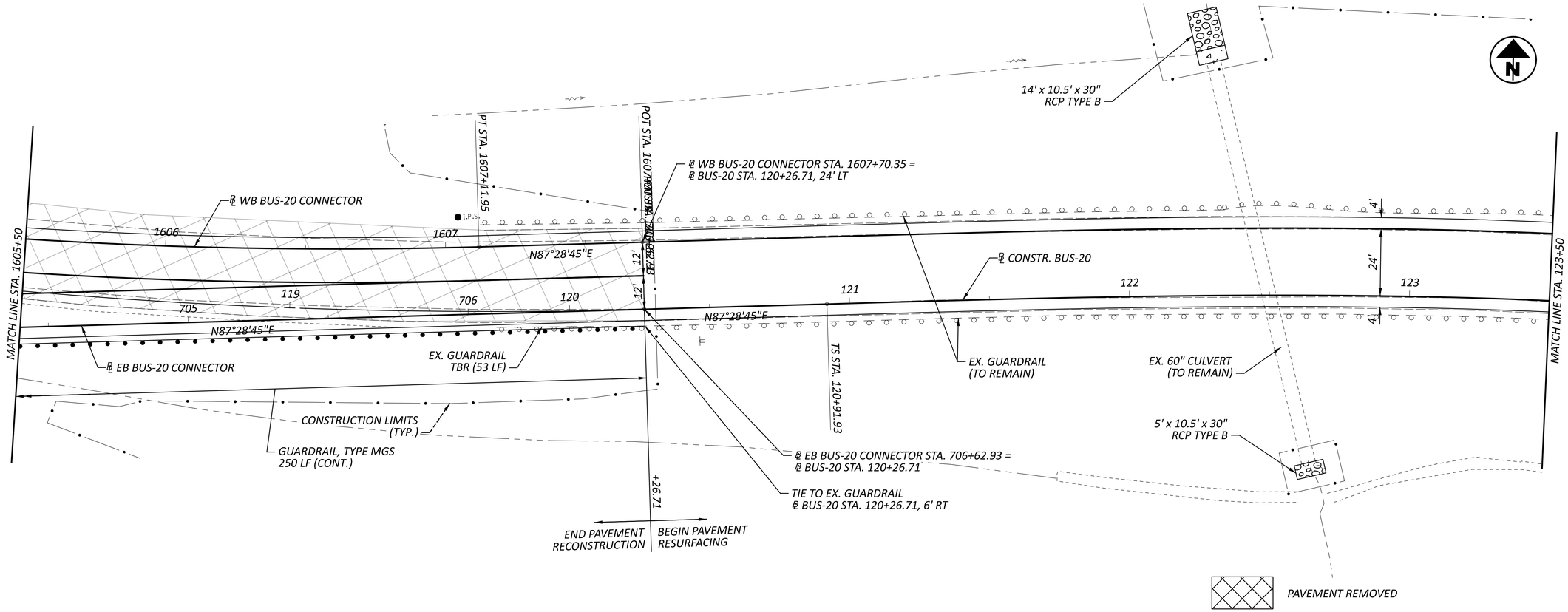

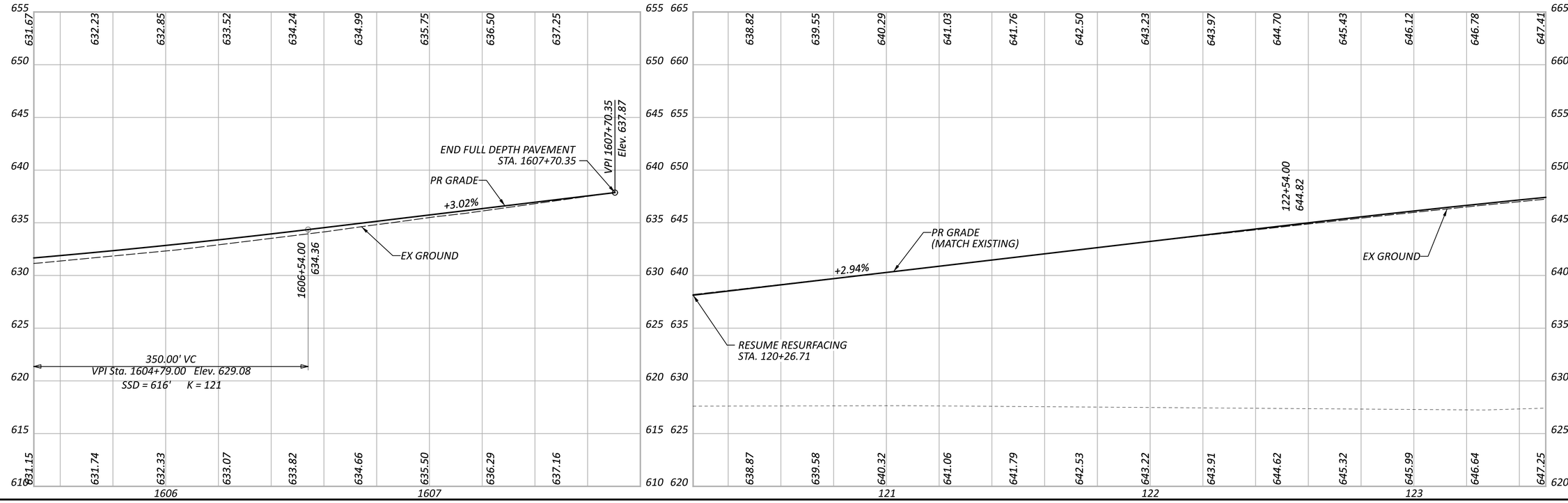

CTY-RTE-SECTION

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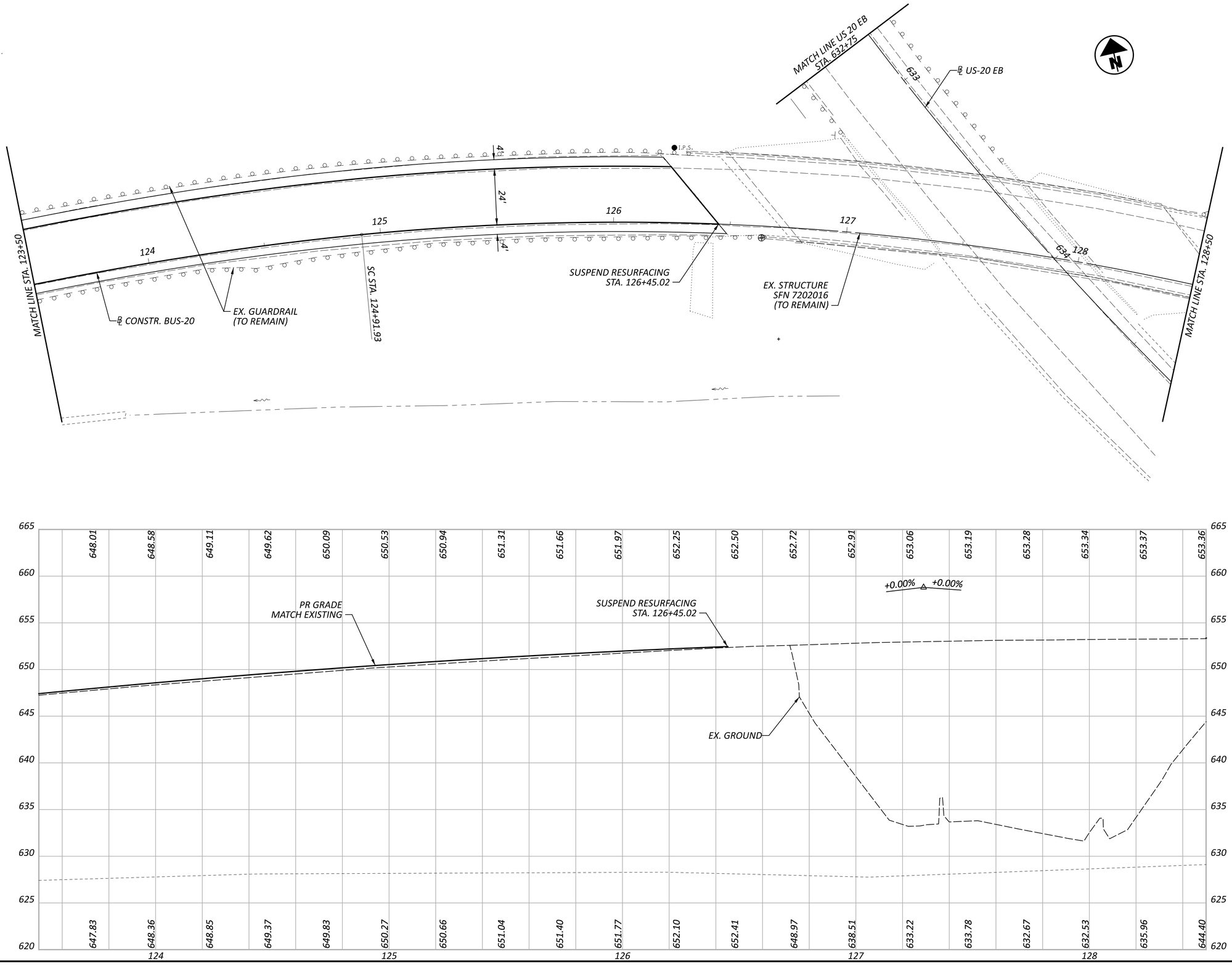
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER TEH
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.16 TOTAL 169



PLAN AND PROFILE - BUS-20
STA. 123+50 TO STA. 128+50

CTY-RTE-SECTION

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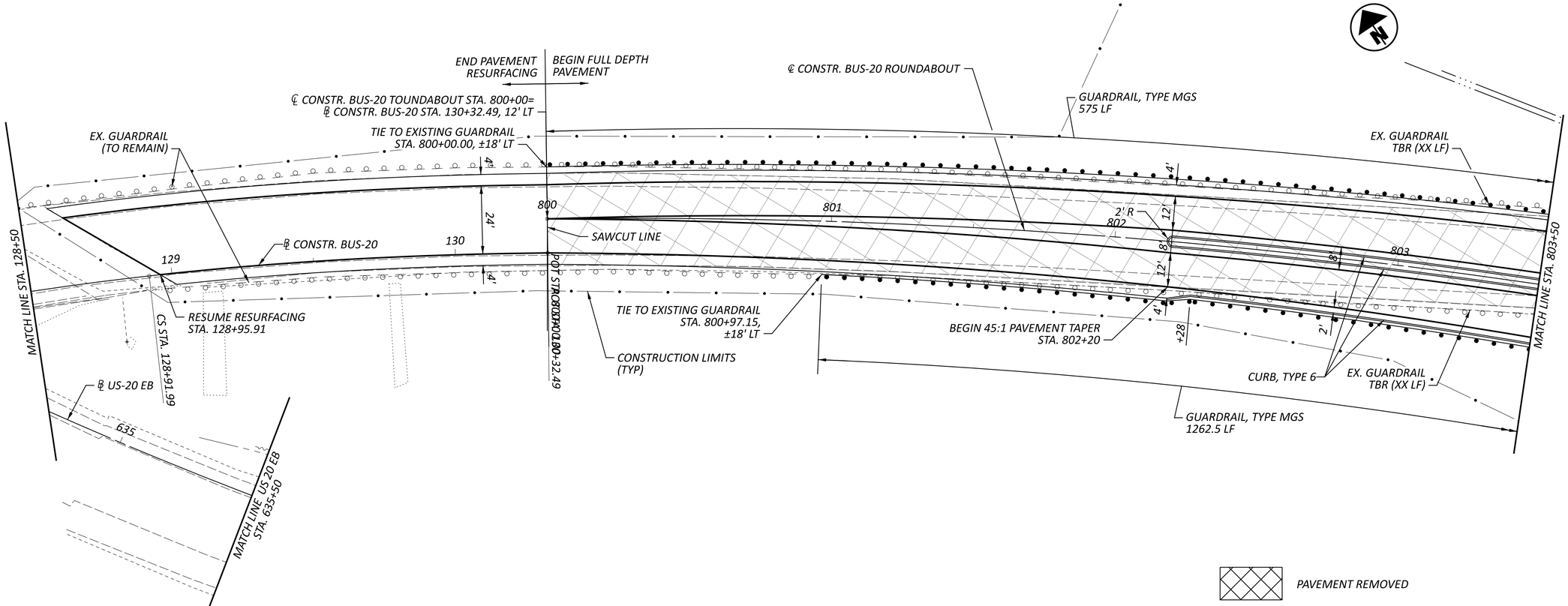
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.17 TOTAL 169



HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - BUS-20
BUS-20 STA. 128+50 TO BUS-20 RAB STA. 803+50

CTY-RTE-SECTION

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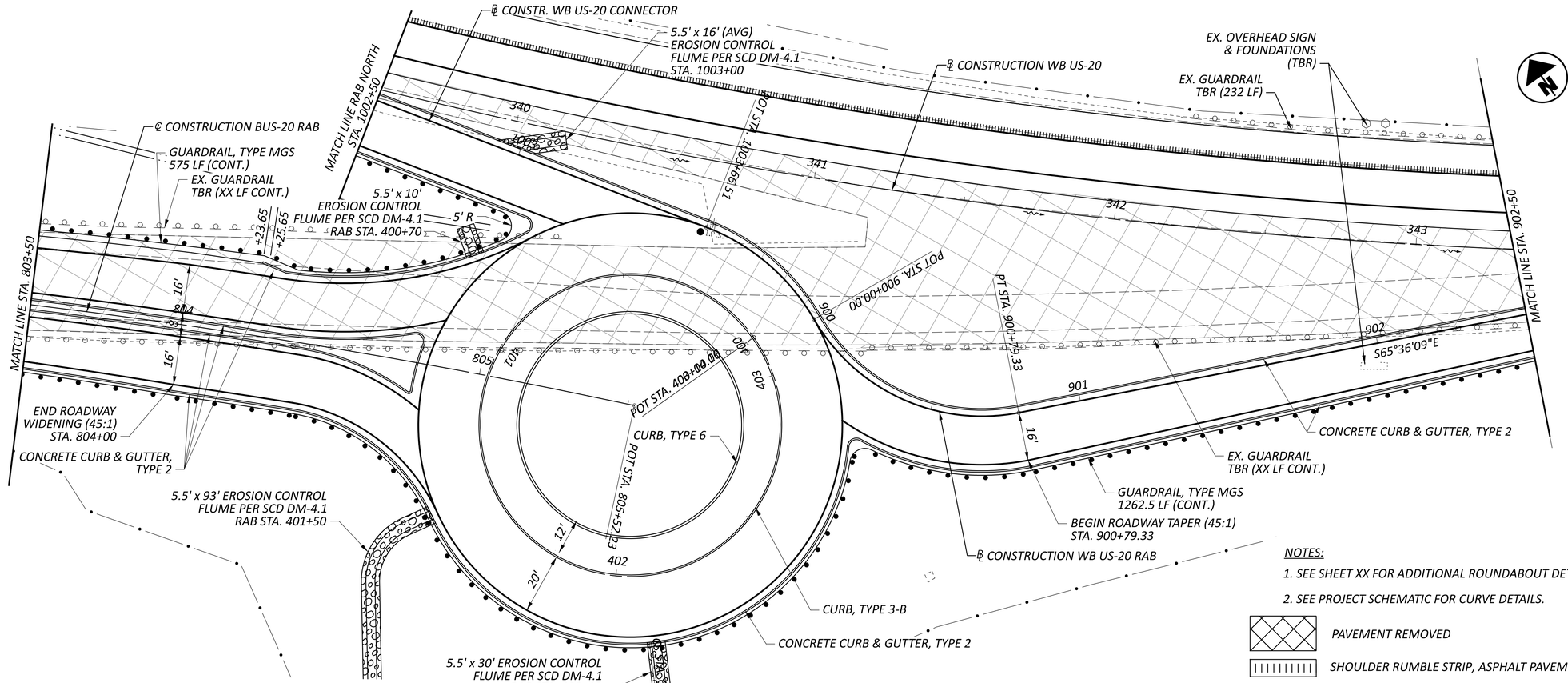
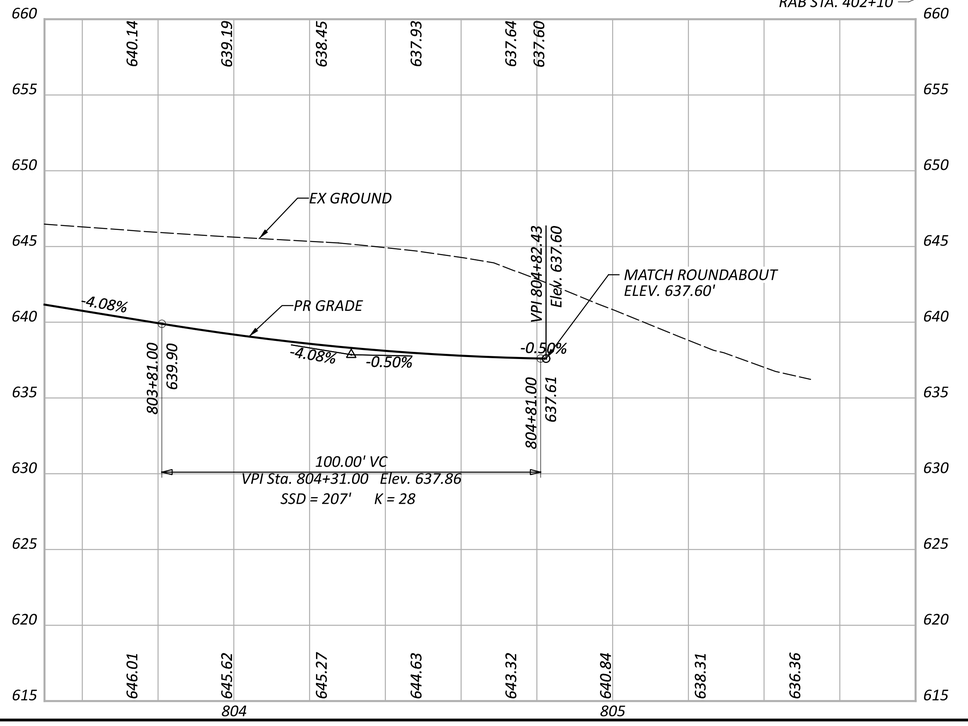
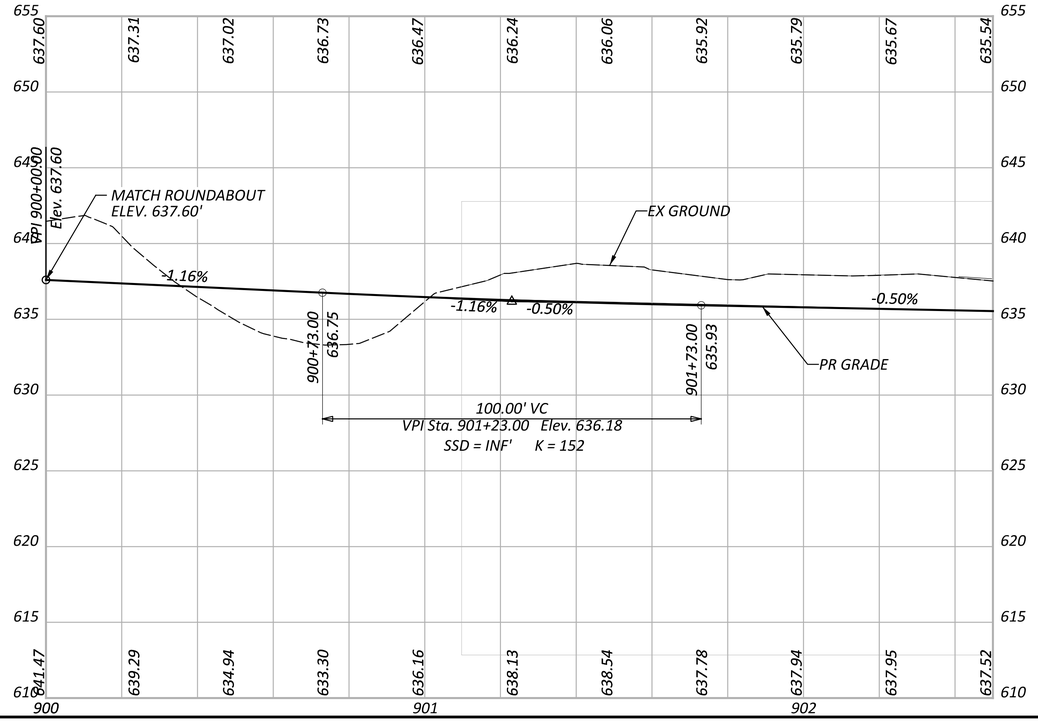
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER TEH
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.18 TOTAL 169







HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - BUS-20
STA. 133+50 TO STA. 138+50

CTY-RTE-SECTION

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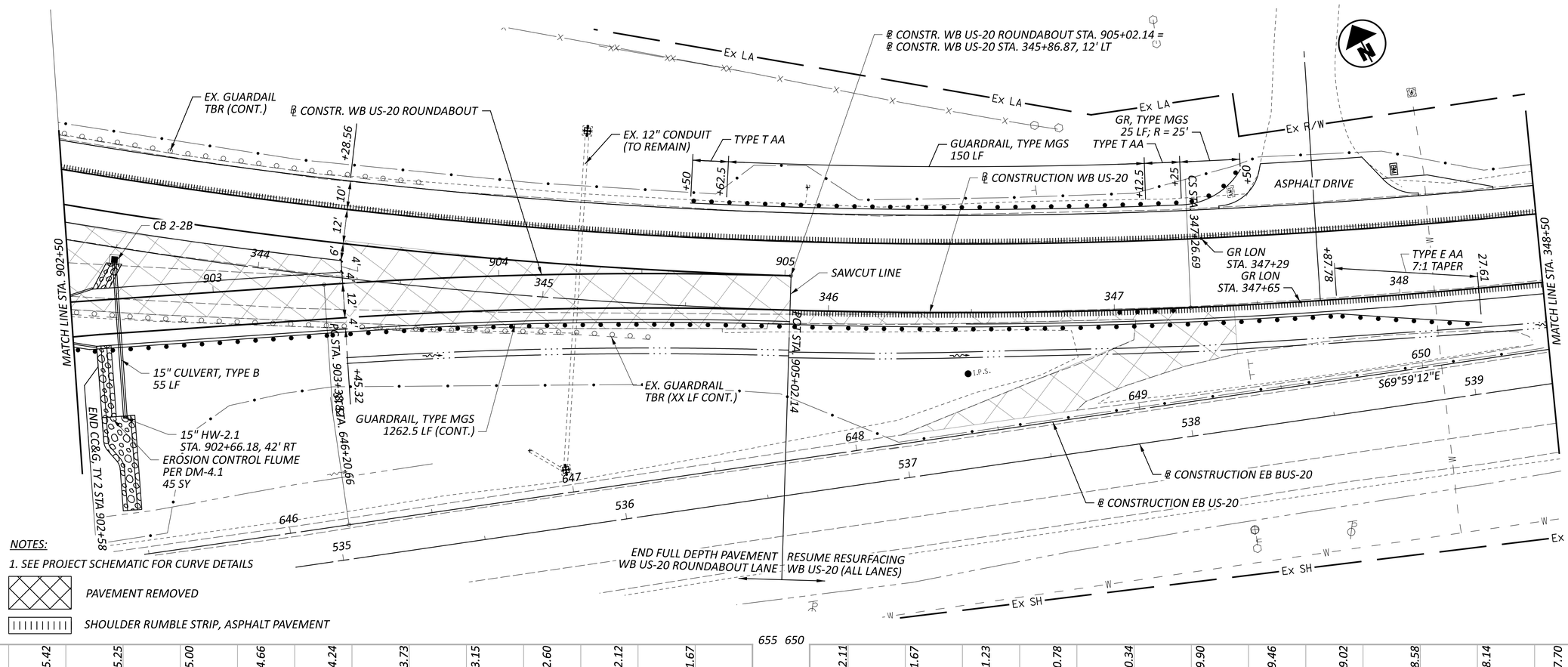
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER TEH
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.19 TOTAL 169



CTY-RTE-SECTION

PLAN AND PROFILE - BUS-20
WB US-20 RAB STA. 902+50 TO STA. 143+50

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER: TEH
REVIEWER: SJP 07/26/24
PROJECT ID: 112222
SHEET: P.20 TOTAL: 169

MODEL: 112222_GP009 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:05:50 PM USER: PIA81677
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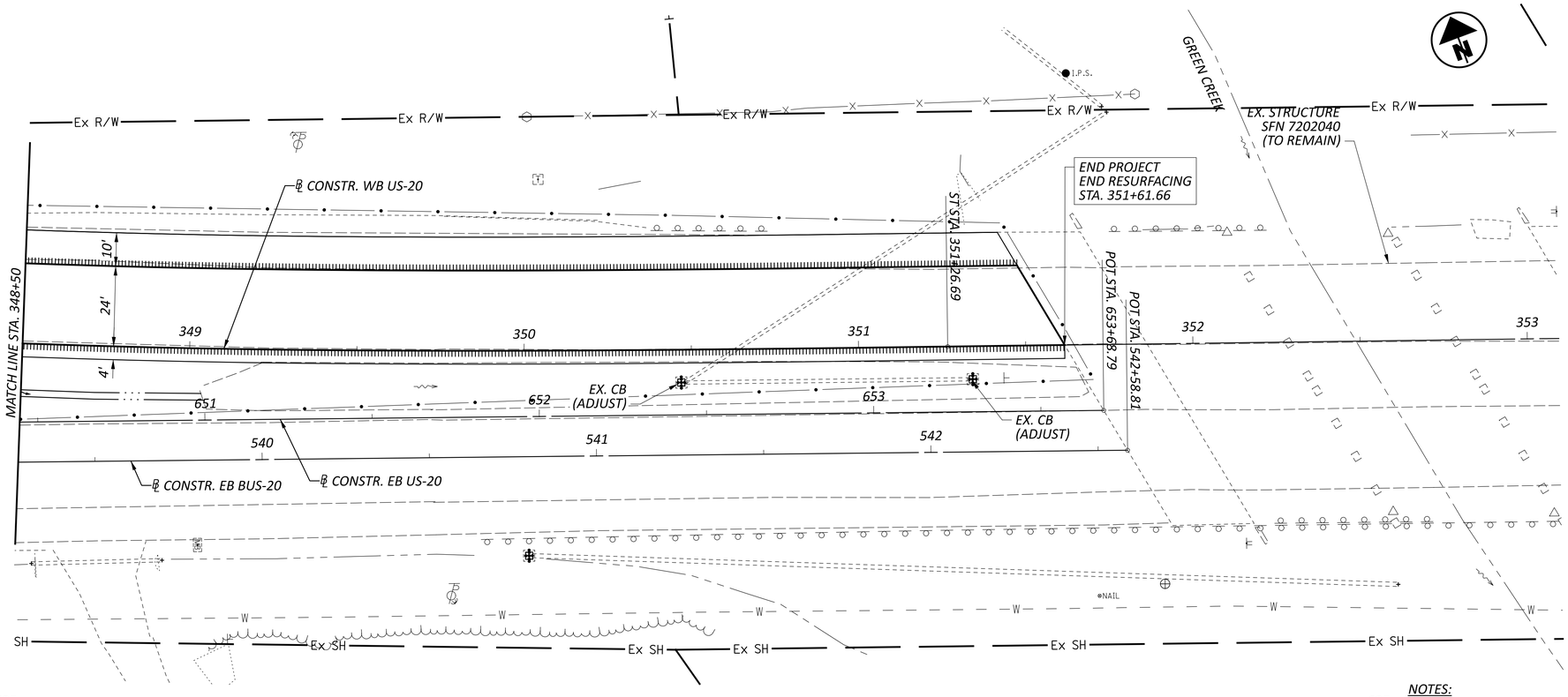

NOTES:

1. SEE PROJECT SCHEMATIC FOR CURVE DETAILS

PAVEMENT REMOVED

SHOULDER RUMBLE STRIP, ASPHALT PAVEMENT

HORIZONTAL
SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - BUS-20
STA. 348+50 TO END PROJECT

CTY-RTE-SECTION

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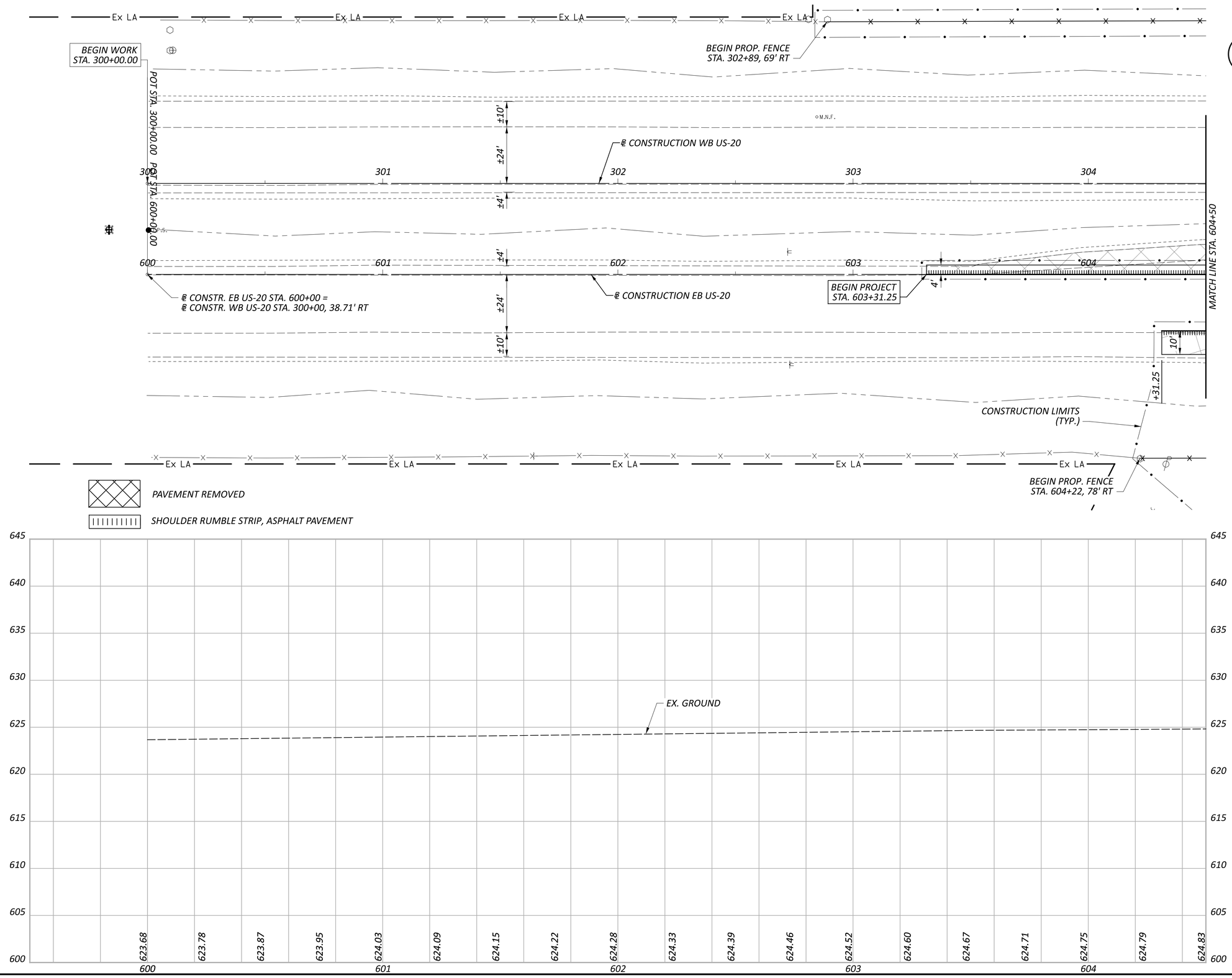
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.21 TOTAL 169



HORIZONTAL
SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - EB US-20
STA. 600+00 TO STA. 604+50

CTY-RTE-SECTION

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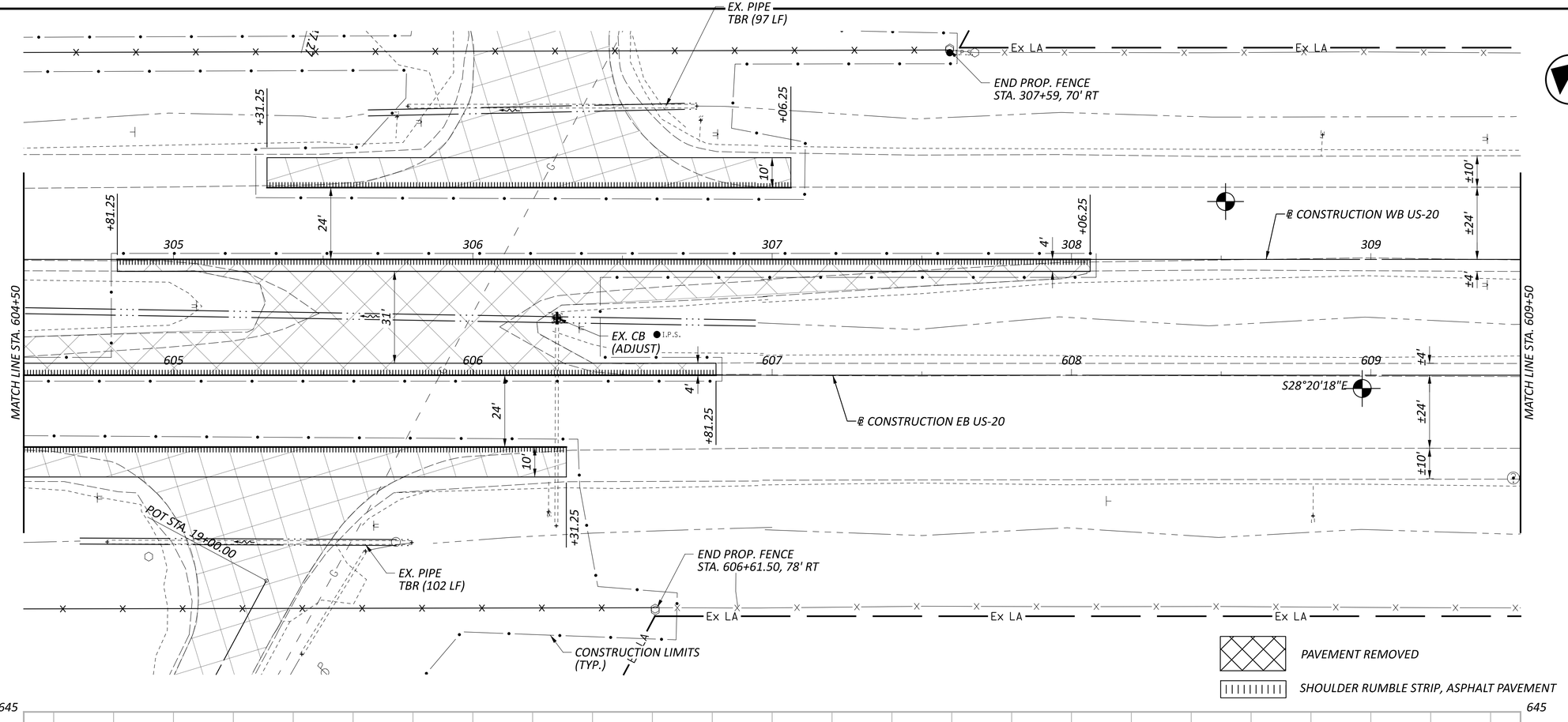
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

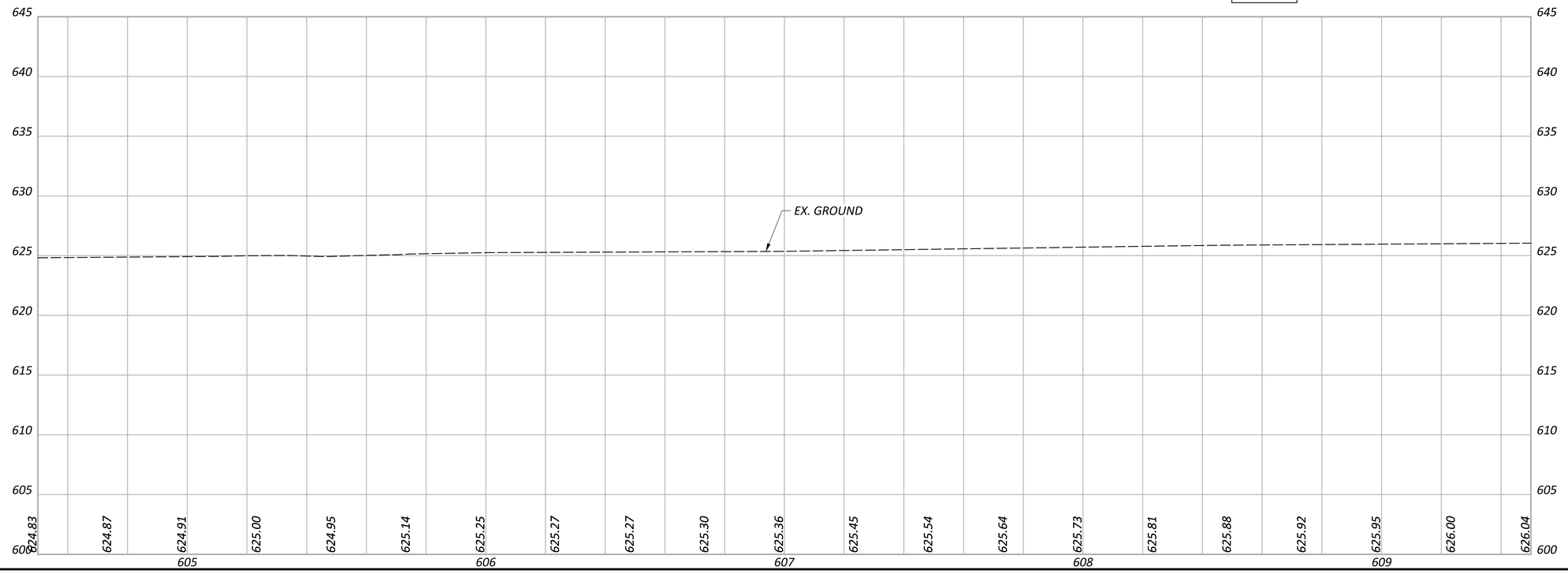
DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.22 | TOTAL 169





HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - EB US-20
STA. 604+50 TO STA. 609+50

CTY-RTE-SECTION

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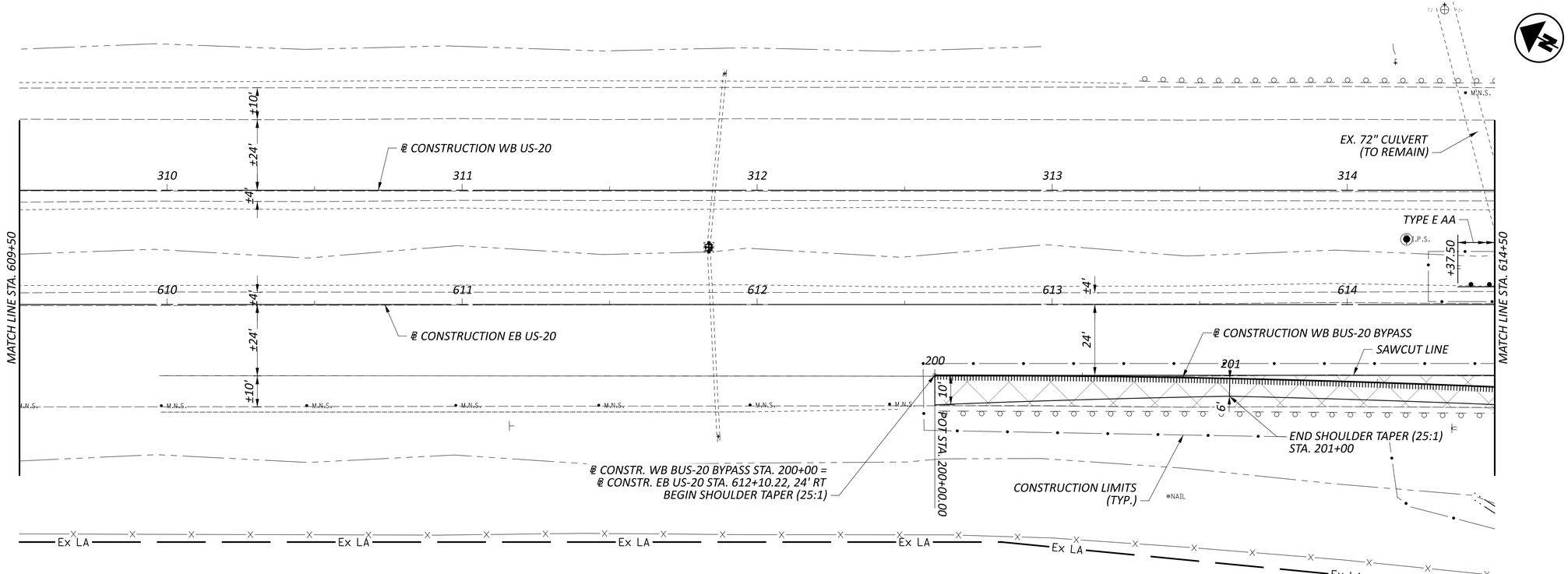
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.23 TOTAL 169

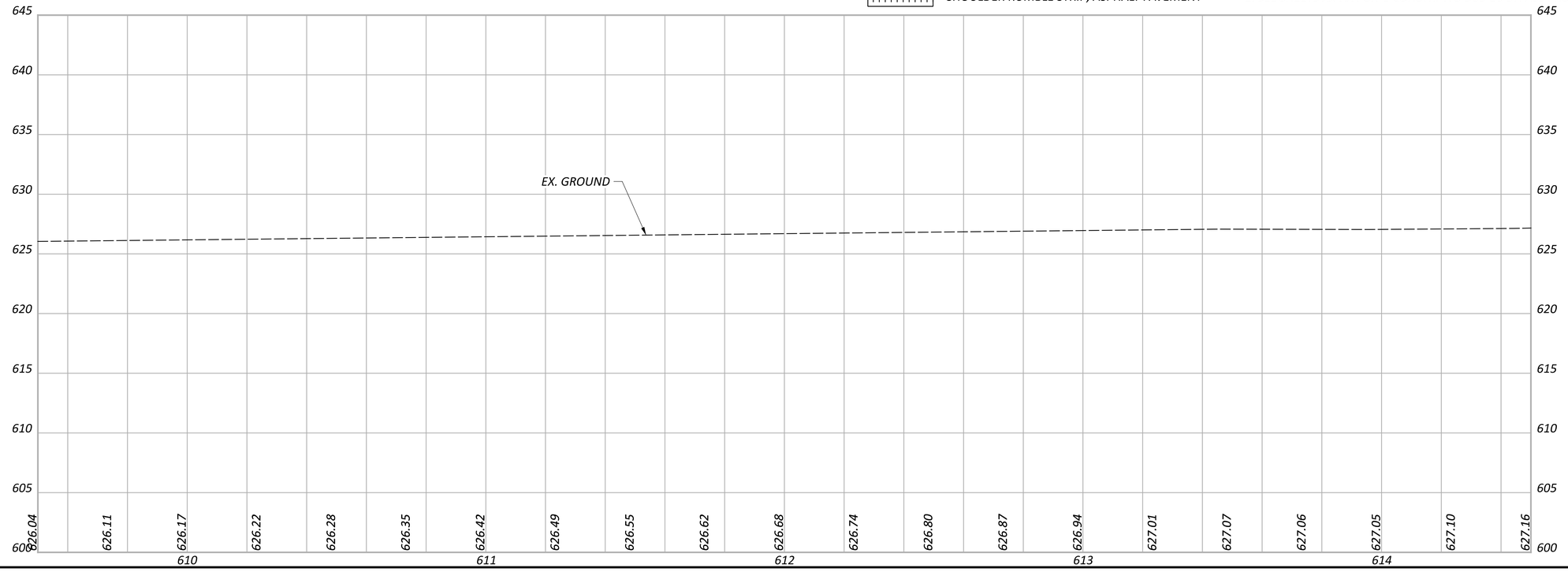


PAVEMENT REMOVED

SHOULDER RUMBLE STRIP, ASPHALT PAVEMENT

NOTES:

1. SEE SCHEMATIC PLANS FOR CURVE INFORMATION.
2. SEE SHEETS XX-XX FOR ℄ CONSTR. WB BUS-20 BYPASS PROFILE.



HORIZONTAL
SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - EB US-20
STA. 609+50 TO STA. 614+50

CTY-RTE-SECTION

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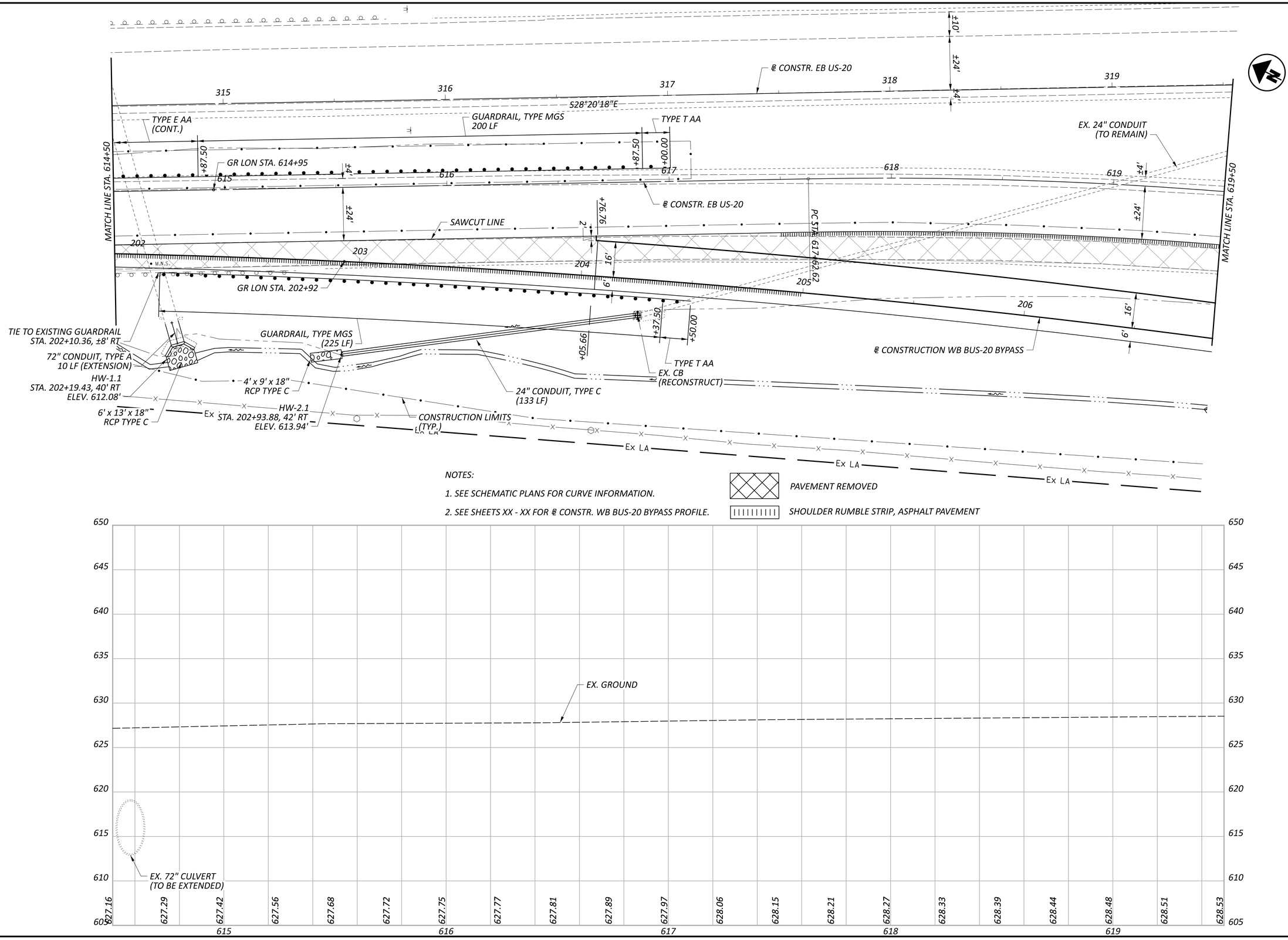
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.24 TOTAL 169



NOTES:

1. SEE SCHEMATIC PLANS FOR CURVE INFORMATION.
2. SEE SHEETS XX - XX FOR ℄ CONSTR. WB BUS-20 BYPASS PROFILE.

PAVEMENT REMOVED

SHOULDER RUMBLE STRIP, ASPHALT PAVEMENT

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - EB US-20
STA. 614+50 TO STA. 619+50

CTY-RTE-SECTION

MODEL: 112222_GP018 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 7:00:20 PM USER: PIA81677
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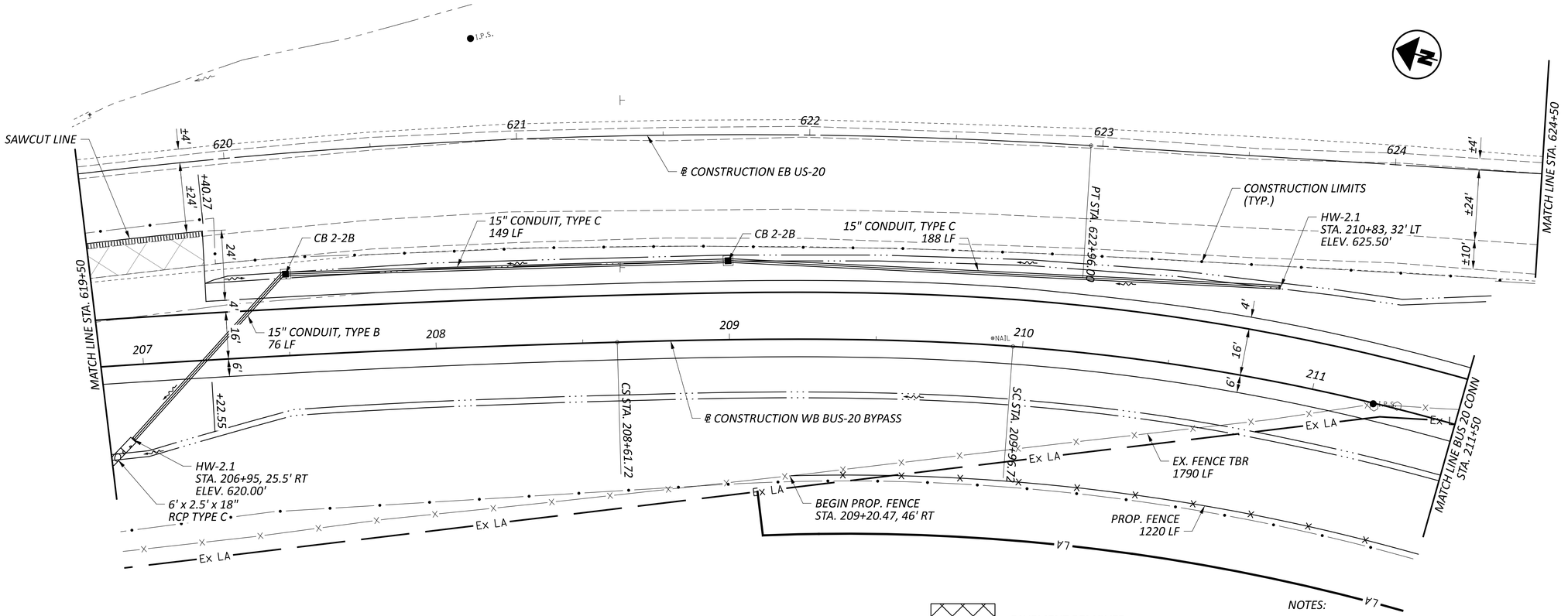
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.25 TOTAL 169

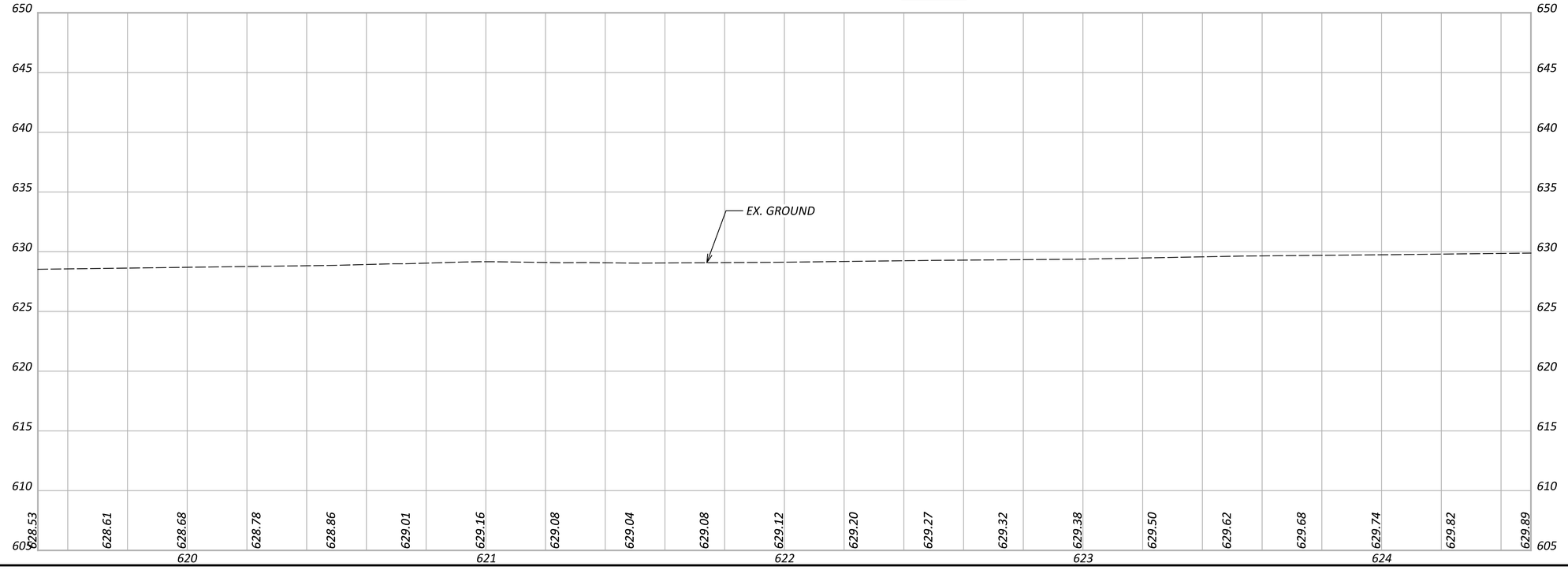


PAVEMENT REMOVED

SHOULDER RUMBLE STRIP, ASPHALT PAVEMENT

NOTES:

1. SEE SCHEMATIC PLANS FOR CURVE INFORMATION.
2. SEE SHEETS XX - XX FOR ℄ CONSTR. WB BUS-20 BYPASS PROFILE.



HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - EB US-20
STA. 619+50 TO STA. 624+50

CTY-RTE-SECTION

MODEL: 112222_GP019 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:07:22 PM USER: PIA81677
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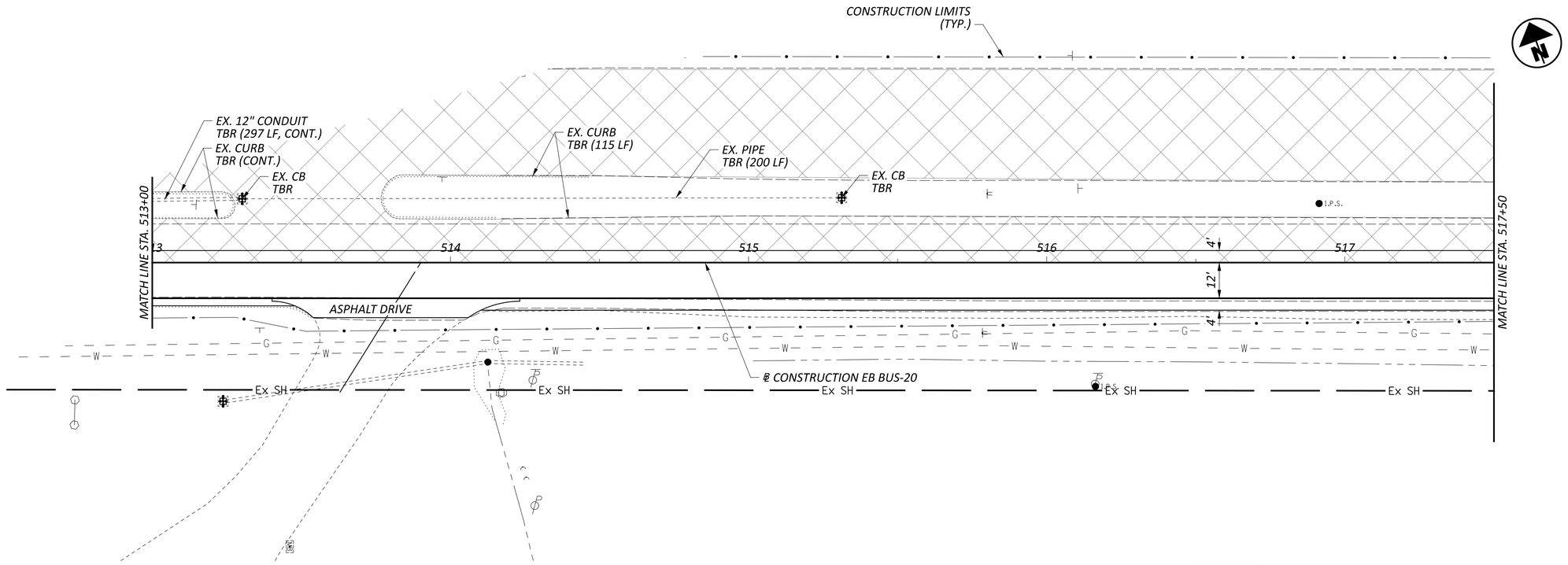
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

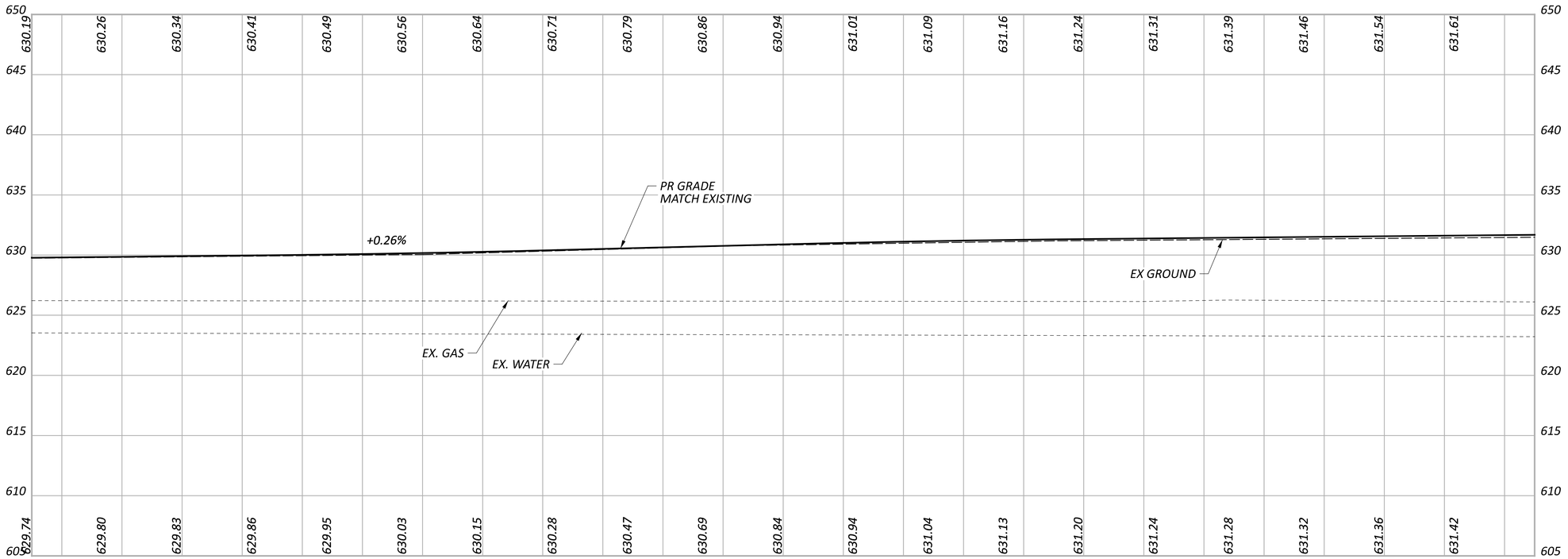
DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.26 TOTAL 169





HORIZONTAL
SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - EB BUS-20
STA. 513+00 TO STA. 517+50

CTY-RTE-SECTION

MODEL: 112222_GP022 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 4:22:45 PM USER: PIA81677
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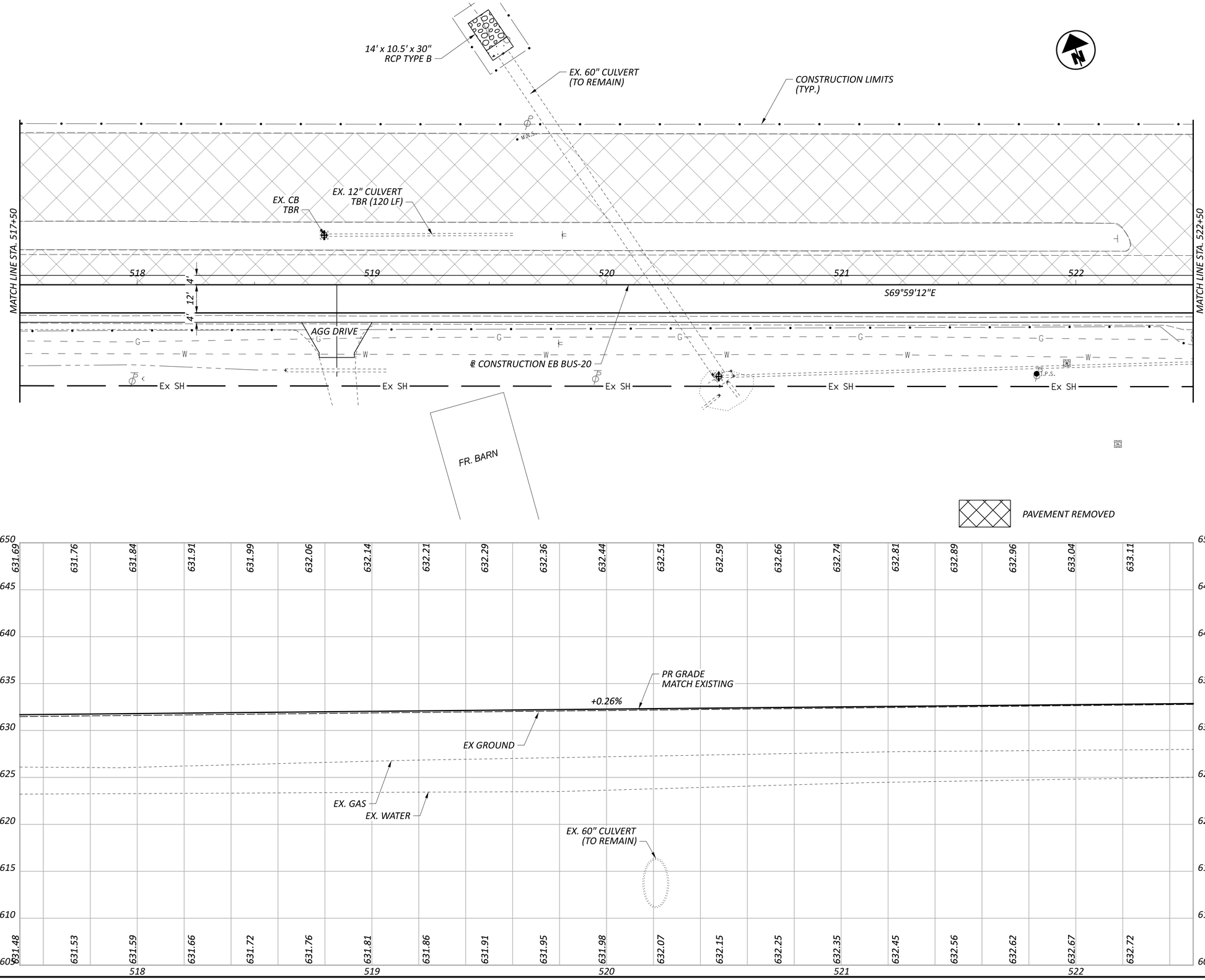
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.27 TOTAL 169



HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - EB BUS-20
STA. 517+50 TO STA. 522+50

CTY-RTE-SECTION

MODEL: 112222_GP023 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 4:30:49 PM USER: PIA81677
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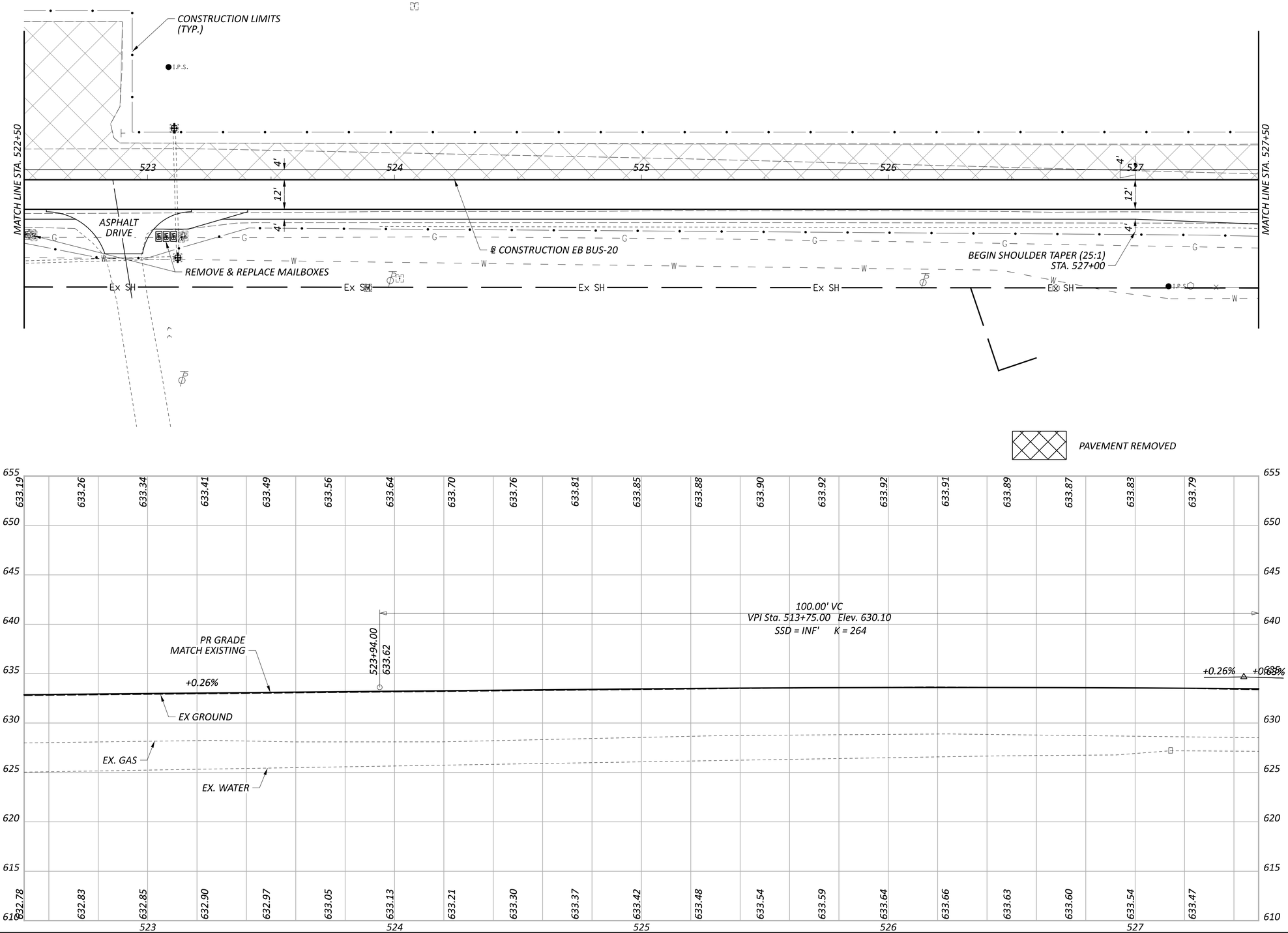
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER TEH
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.28 TOTAL 169



HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - EB BUS-20
STA. 522+50 TO STA. 527+50

CTY-RTE-SECTION

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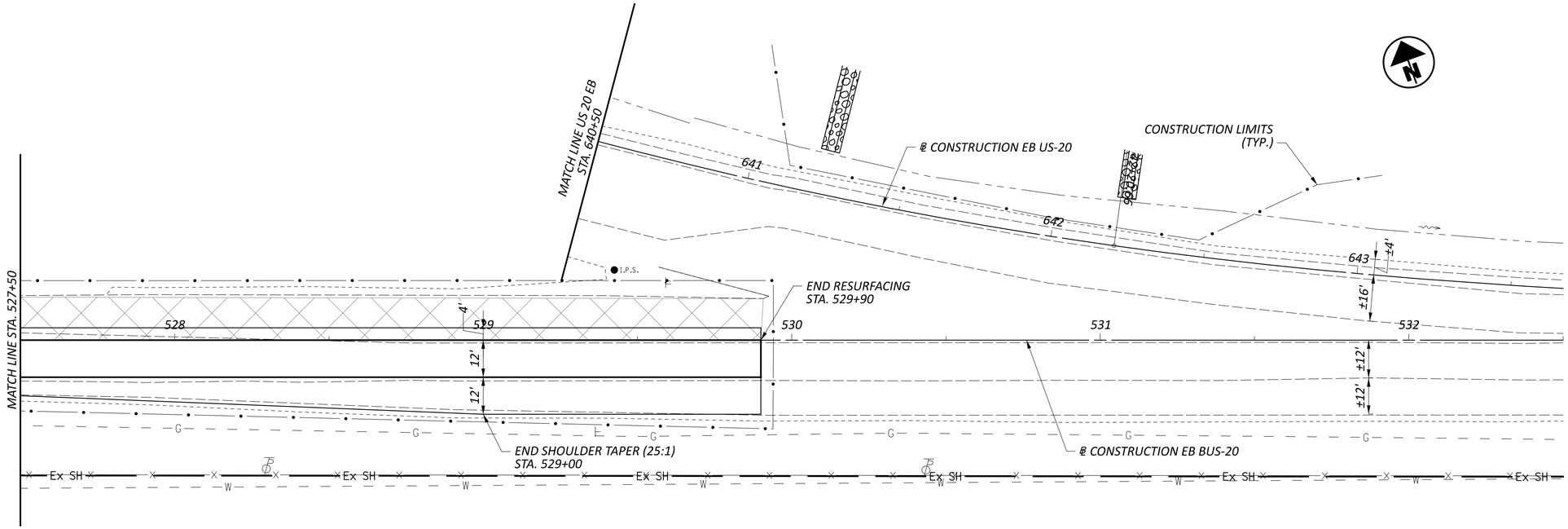
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

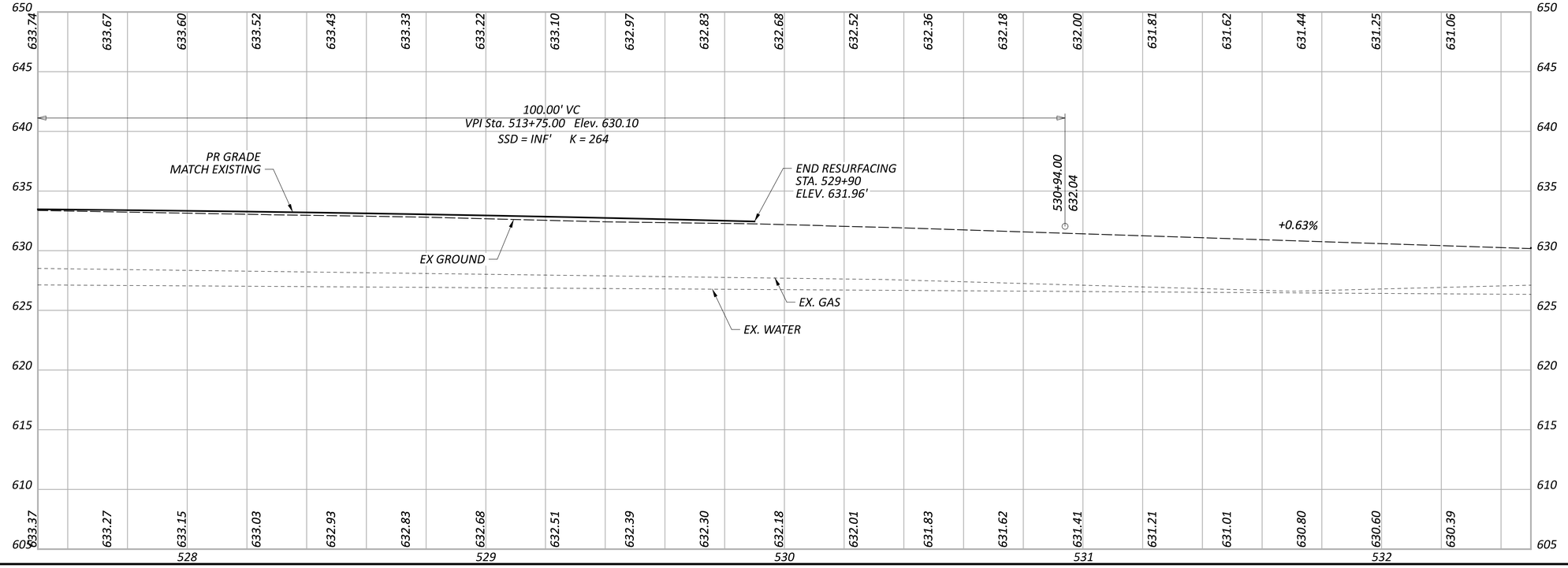
SHEET P.29 TOTAL 169



PAVEMENT REMOVED

NOTES:

1. SEE SCHEMATIC PLAN SHEETS FOR CURVE DATA.



HORIZONTAL
SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - EB BUS-20
STA. 527+50 TO STA. 532+50

CTY-RTE-SECTION

MODEL: 112222_GP025 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 4:37:17 PM USER: PIA81677
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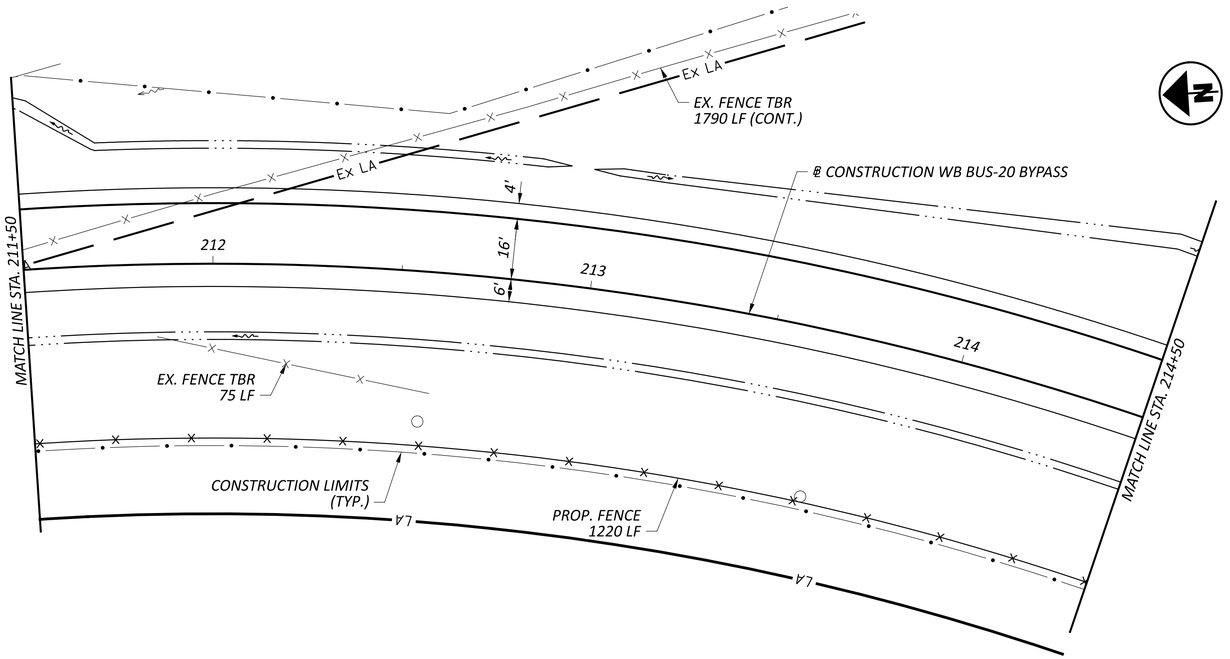
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

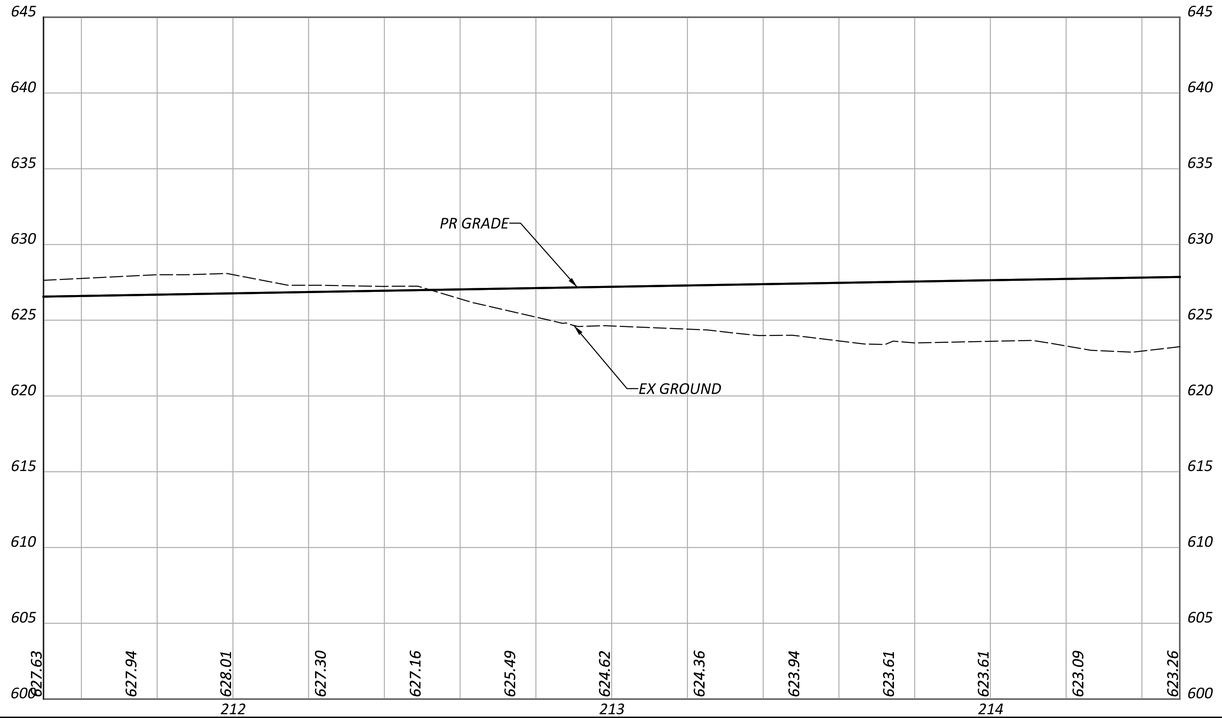
SHEET P.30 TOTAL 169



PAVEMENT REMOVED

NOTES:

1. SEE SCHEMATIC PLAN SHEETS FOR CURVE DATA.



HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - WB BUS-20 BYPASS STA. 211+50 TO STA. 214+50

CTY-RTE-SECTION

MODEL: 112222_GP028 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 7:04:09 PM USER: PIA81677
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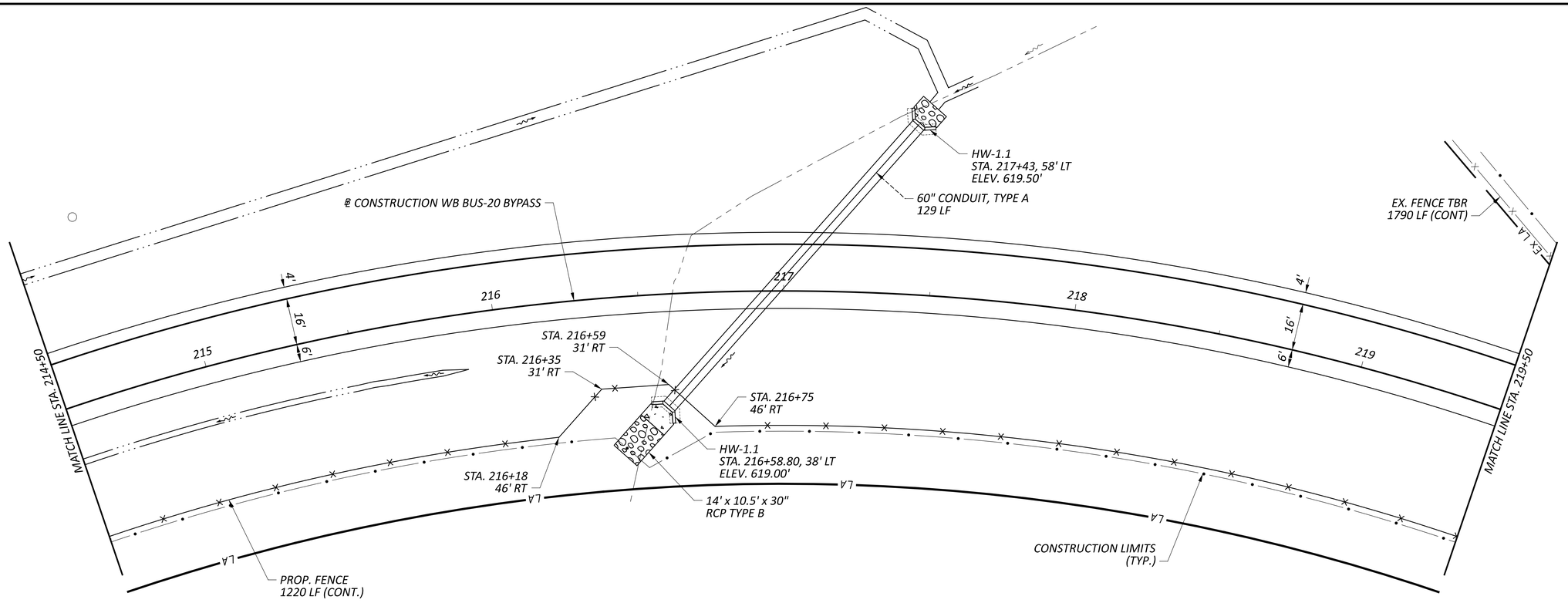
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

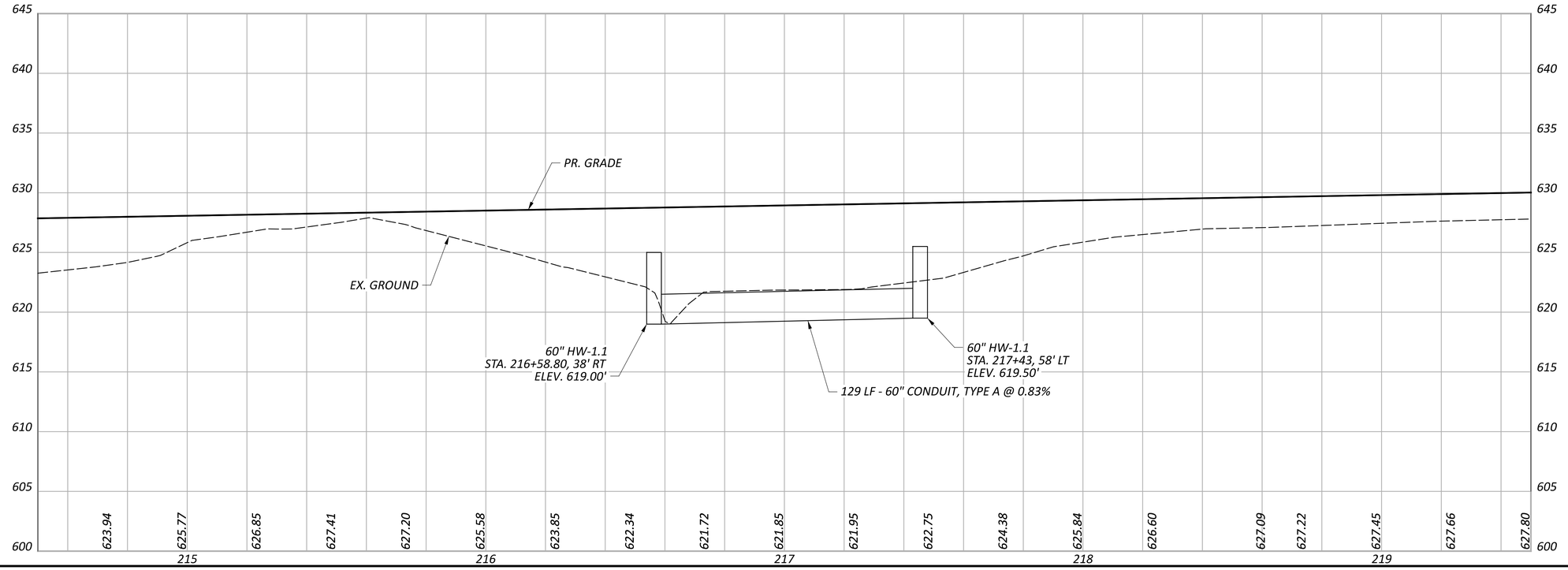
SHEET P.31 TOTAL 169



PAVEMENT REMOVED

NOTES:

1. SEE SCHEMATIC PLAN SHEETS FOR CURVE DATA.



HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - WB BUS-20 BYPASS
STA. 214+50 TO STA. 219+50

CTY-RTE-SECTION

MODEL: 112222_GP029 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:09:04 PM USER: PIA81677
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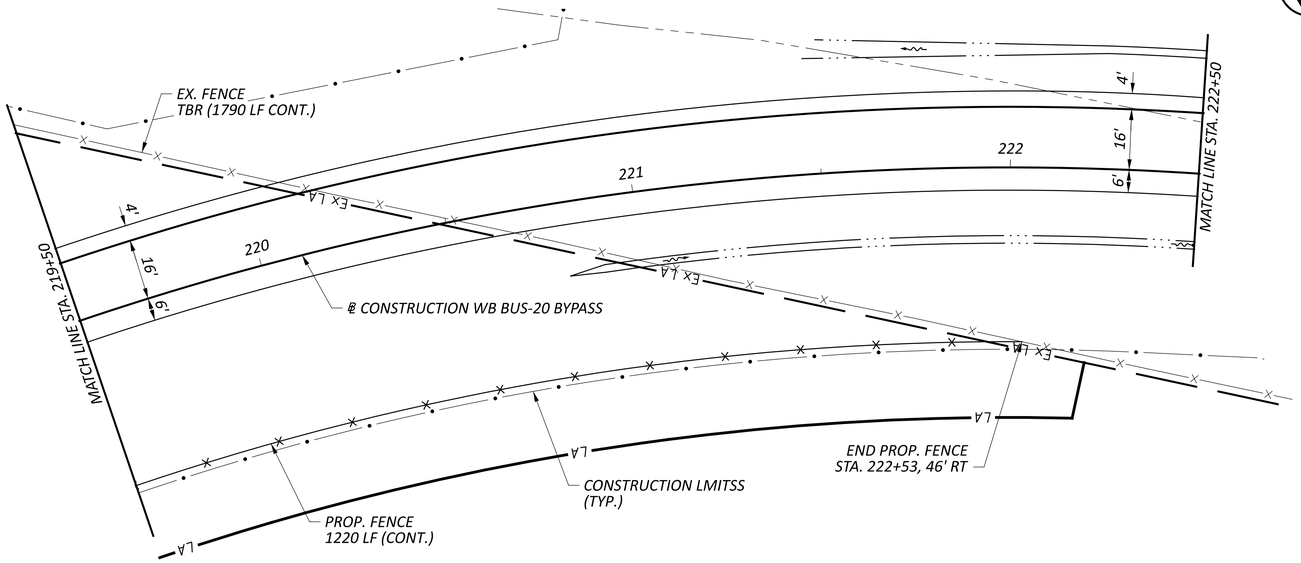
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

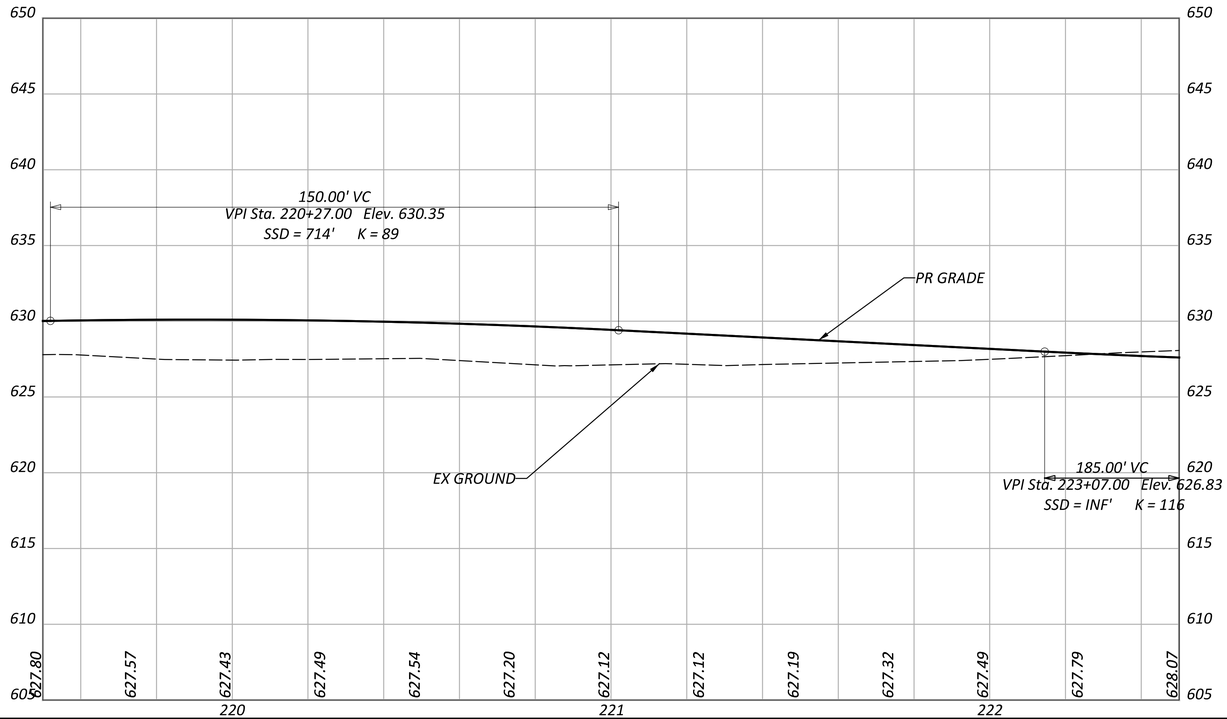
SHEET P.32 | TOTAL 169



PAVEMENT REMOVED

NOTES:

1. SEE SCHEMATIC PLAN SHEETS FOR CURVE DATA.



HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - WB BUS-20 BYPASS STA. 219+50 TO STA. 222+50

CTY-RTE-SECTION

MODEL: 112222_GP030 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:09:17 PM USER: PIA81677
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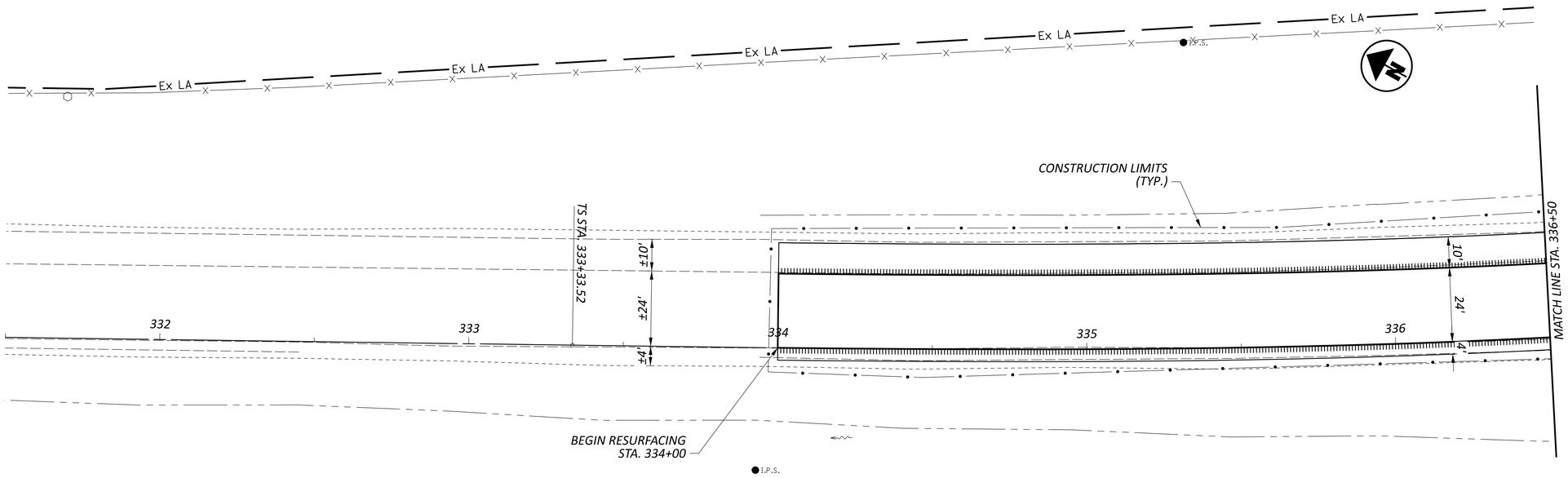
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.33 TOTAL 169

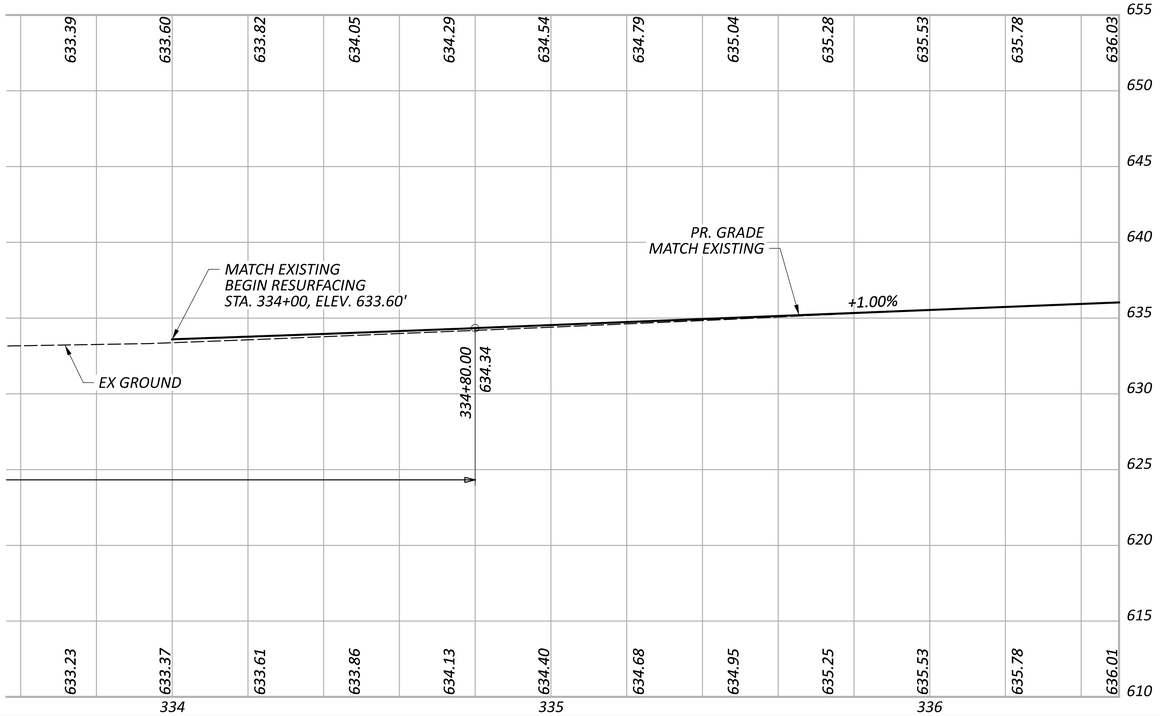


PAVEMENT REMOVED

SHOULDER RUMBLE STRIP, ASPHALT PAVEMENT

NOTES:

1. *SEE SCHEMATIC PLANS FOR CURVE INFORMATION.*
2. *SEE SHEETS XX-XX FOR ℄ CONSTR. WB BUS-20 BYPASS PROFILE.*



HORIZONTAL
SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - WB US-20
STA. 331+50 TO STA. 336+50

CTY-RTE-SECTION

MODEL: RAB North - Plan 1 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:09:32 PM USER: PIA81677
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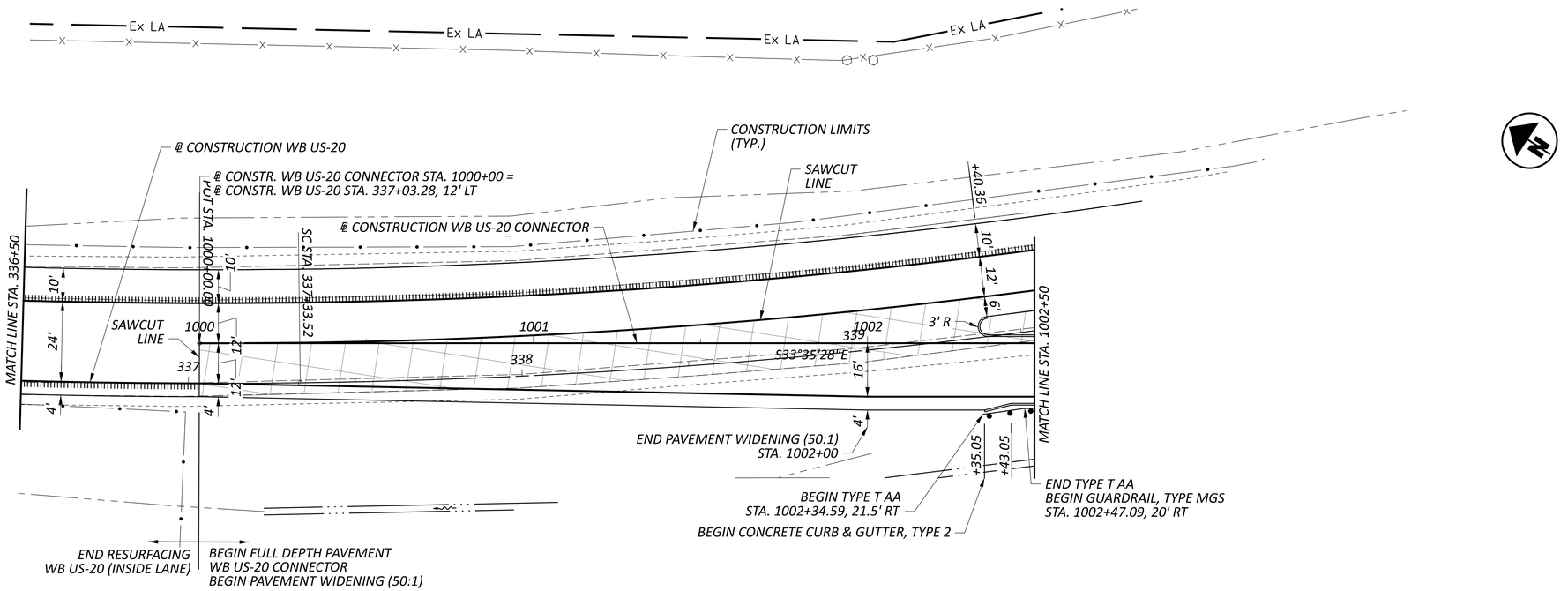
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.34 TOTAL 169

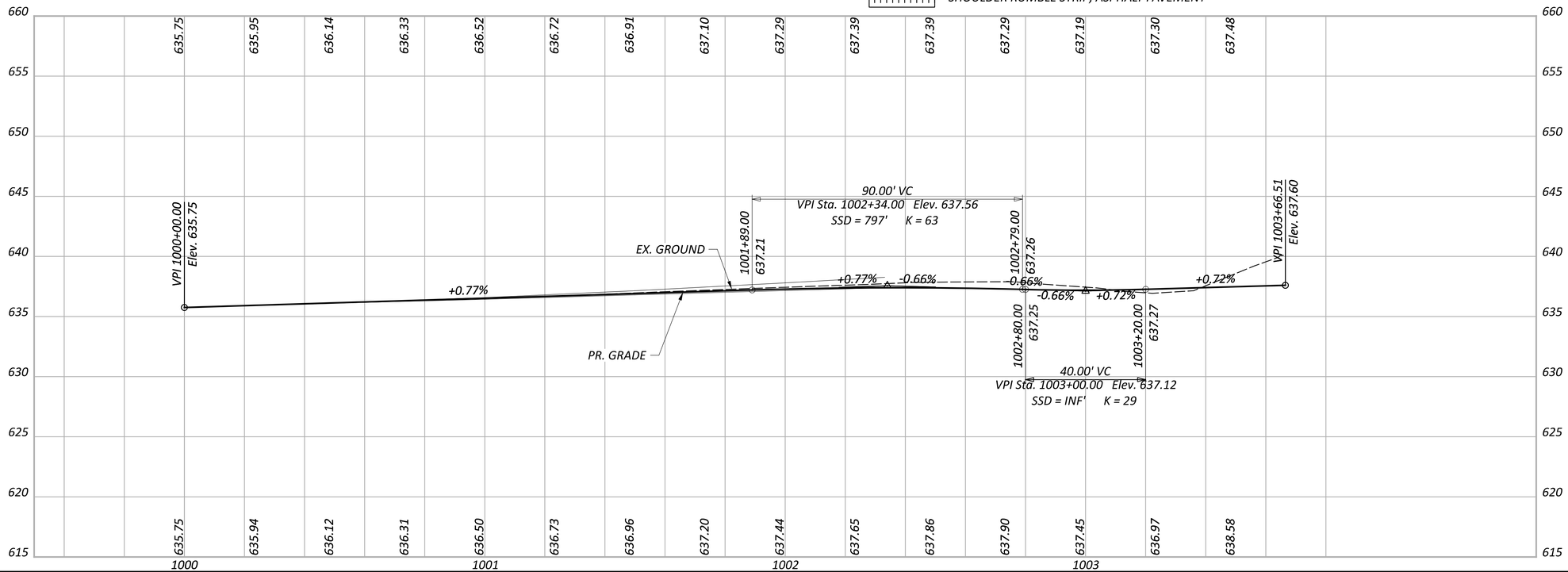


PAVEMENT REMOVED

SHOULDER RUMBLE STRIP, ASPHALT PAVEMENT

NOTES:

1. SEE SCHEMATIC PLAN SHEETS FOR CURVE DATA.
2. SEE SHEET XX FOR CONTINUATION OF WB US-20 CONNECTOR PLAN VIEW.



HORIZONTAL
SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - WB US-20
STA. 336+50 TO US-20 WB CONN STA. 1002+50

CTY-RTE-SECTION

MODEL: 112222_GP031 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:09:52 PM USER: PIA81677
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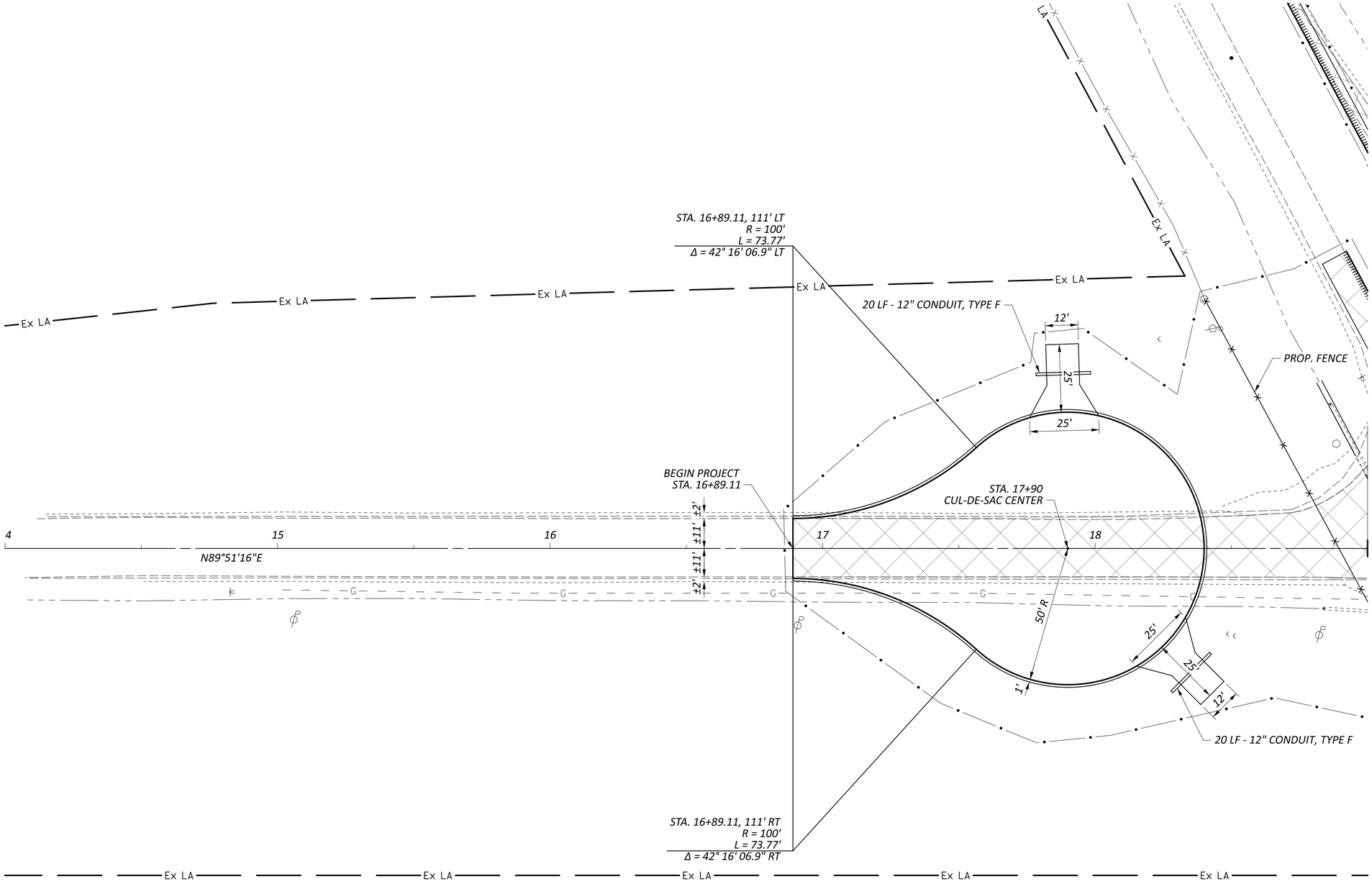
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.35 | TOTAL 169



HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN SHEET - CR-198 CUL-DE-SAC
STA. 14+00 TO STA. 19+00

CTY-RTE-SECTION

MODEL: CLP_20_CR199 - Plan 32 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:10:07 PM USER: PIA81677
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DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.36 | TOTAL 169

MODEL: CLP_20_CR199 - Plan 33 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:10:21 PM USER: PIA81677
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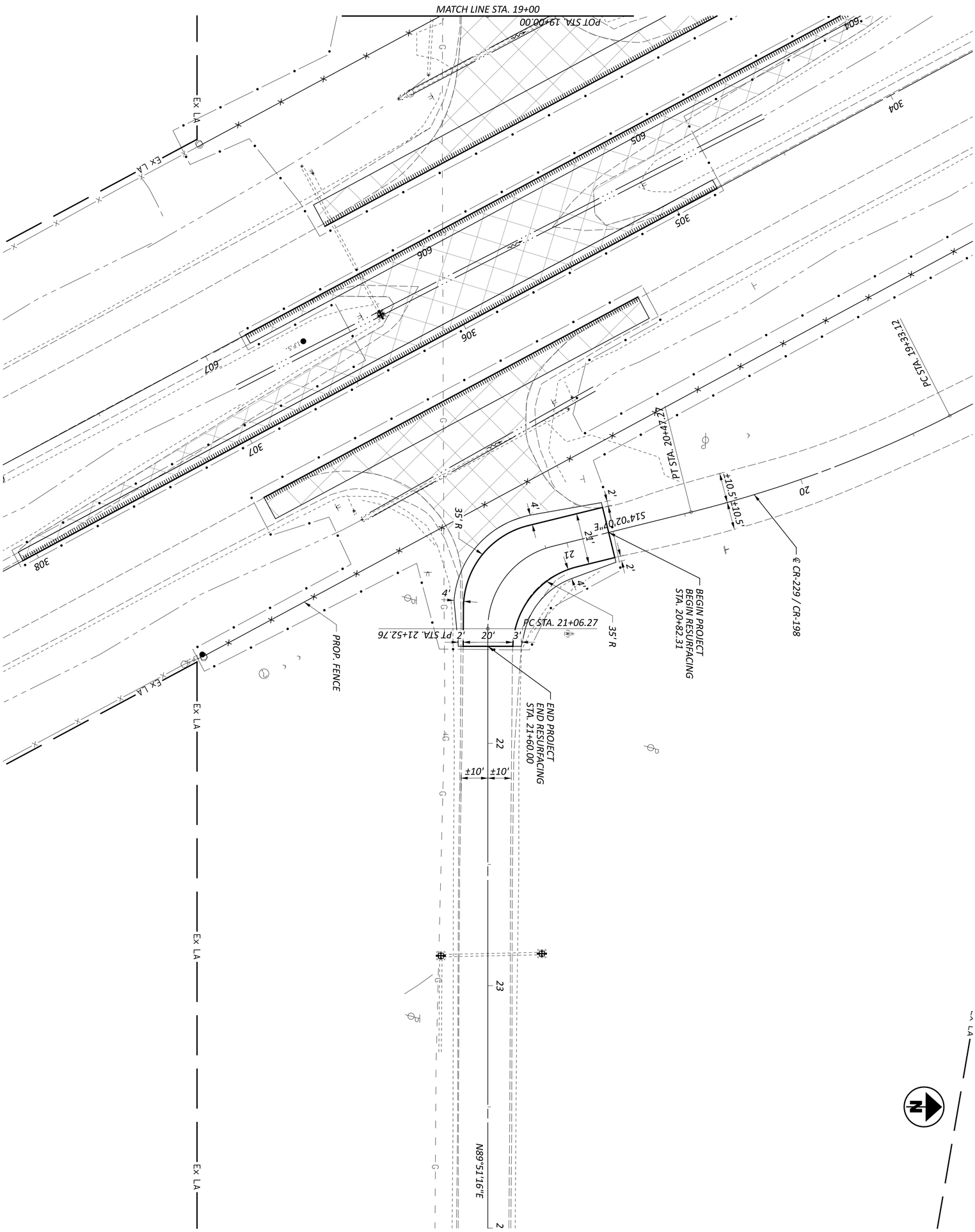
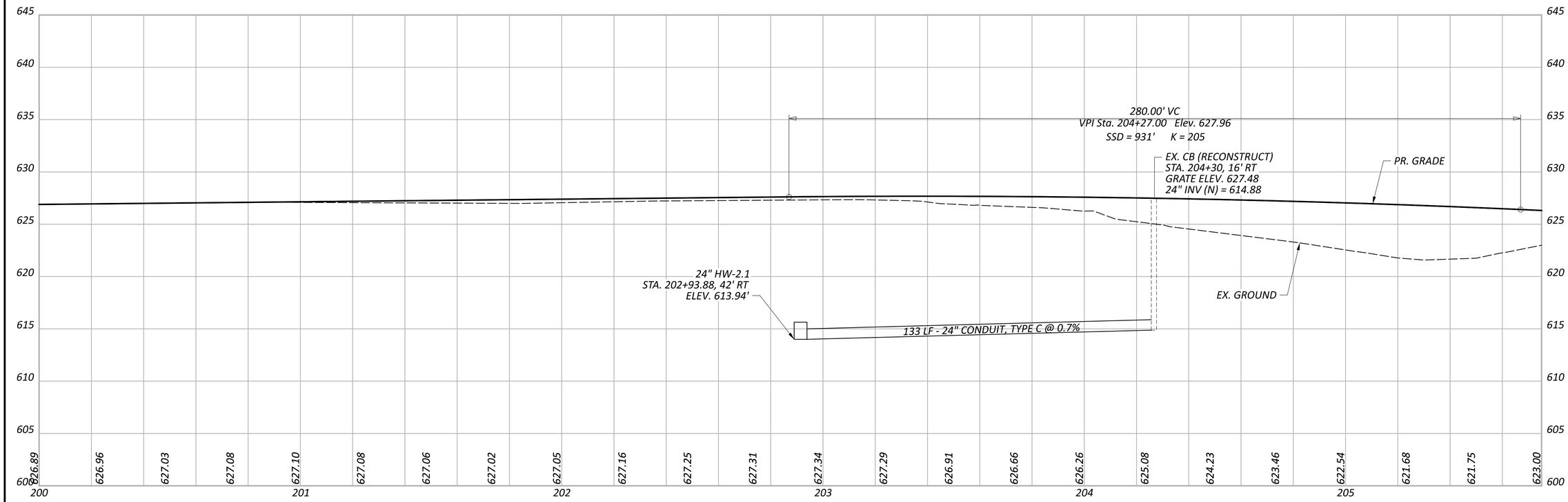


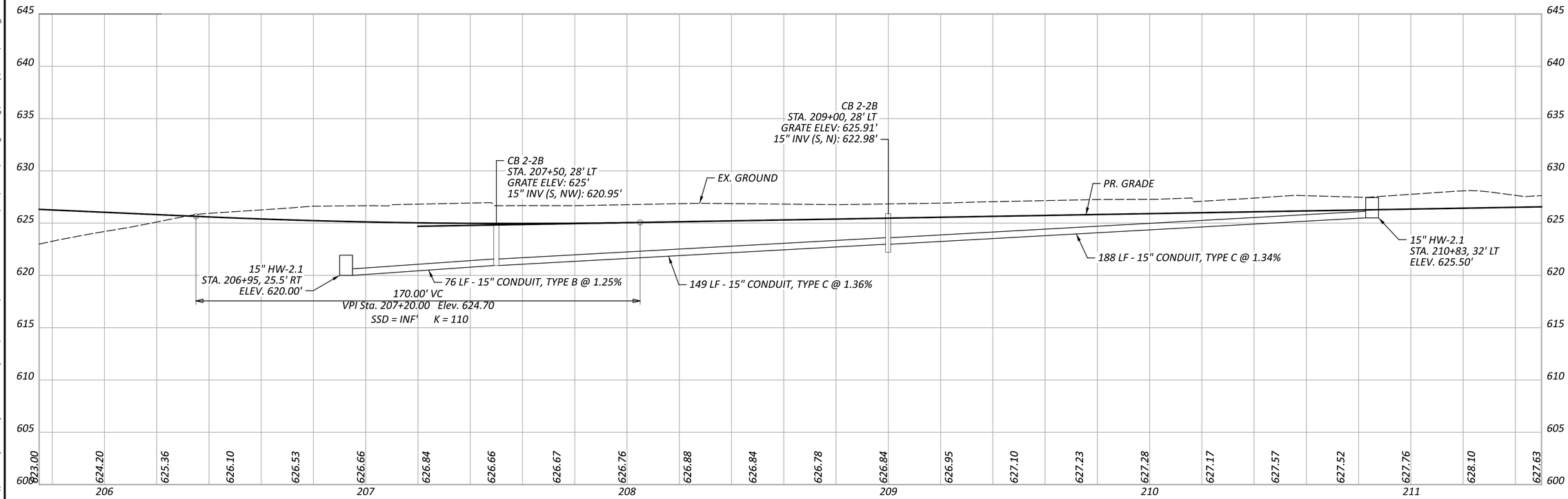
PLAN SHEET - CR-229 & CR-198 INTERSECTION
STA. 19+00 TO STA. 24+00

HORIZONTAL SCALE IN FEET
0 20
10 40

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER TEH
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.37 TOTAL 169





CTY-RTE-SECTION

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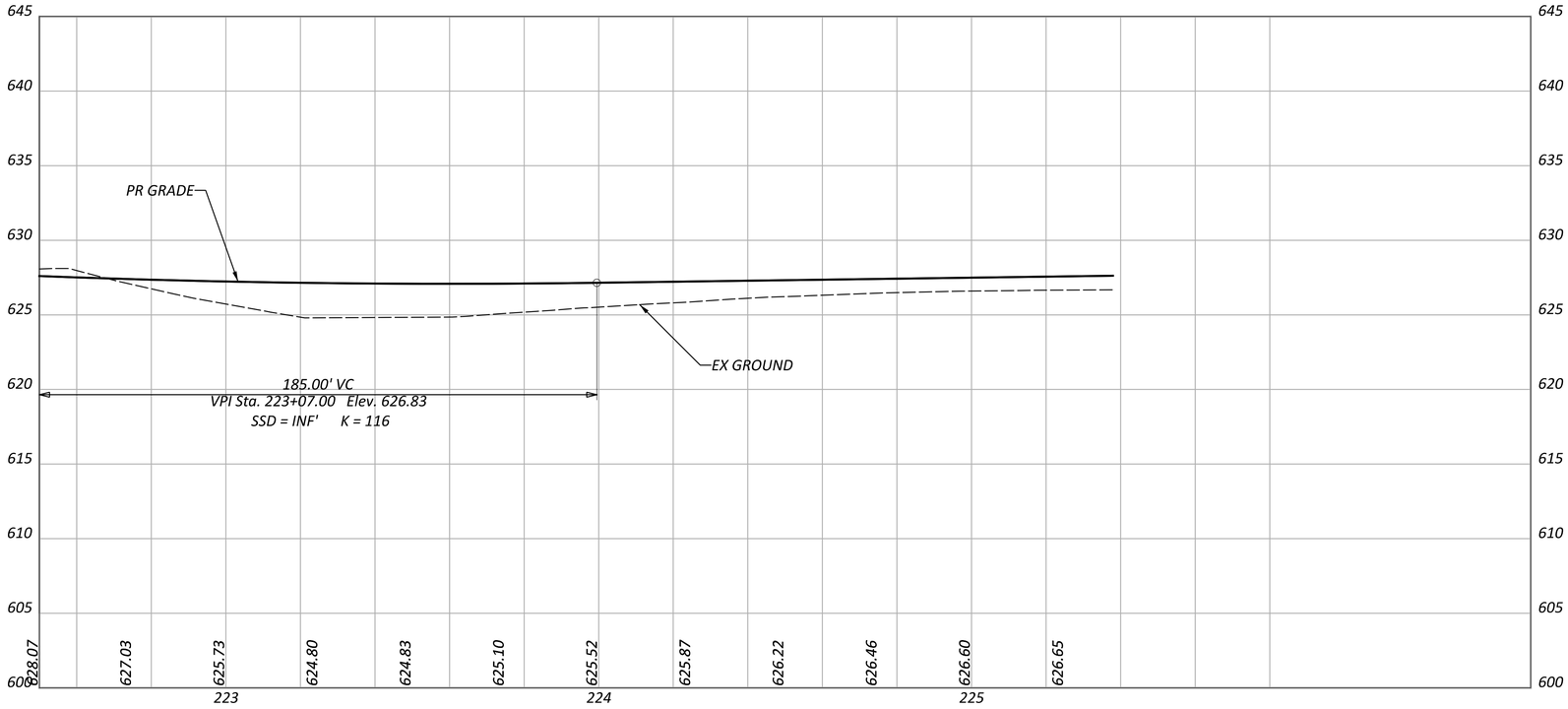
PROFILE SHEET
WB BUS-20 BYPASS STA. 200+00 TO 211+50

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER TEH
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.38 TOTAL 169



PROFILE SHEET
WB BUS-20 BYPASS STA. 211+50 TO END

CTY-RTE-SECTION

MODEL: 112222_GP033 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:10:48 PM USER: PIA81677
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DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.39 | TOTAL 169

MODEL: 112222_GP034 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:12:24 PM USER: PIA81677
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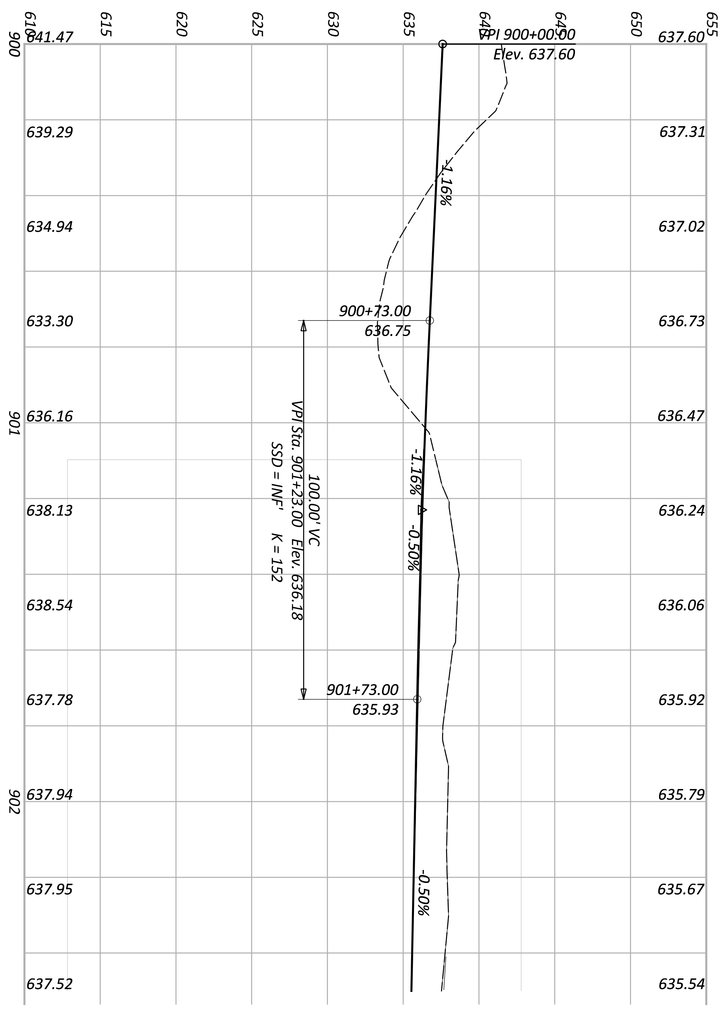


MOTT MACDONALD
2048 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGN AGENCY

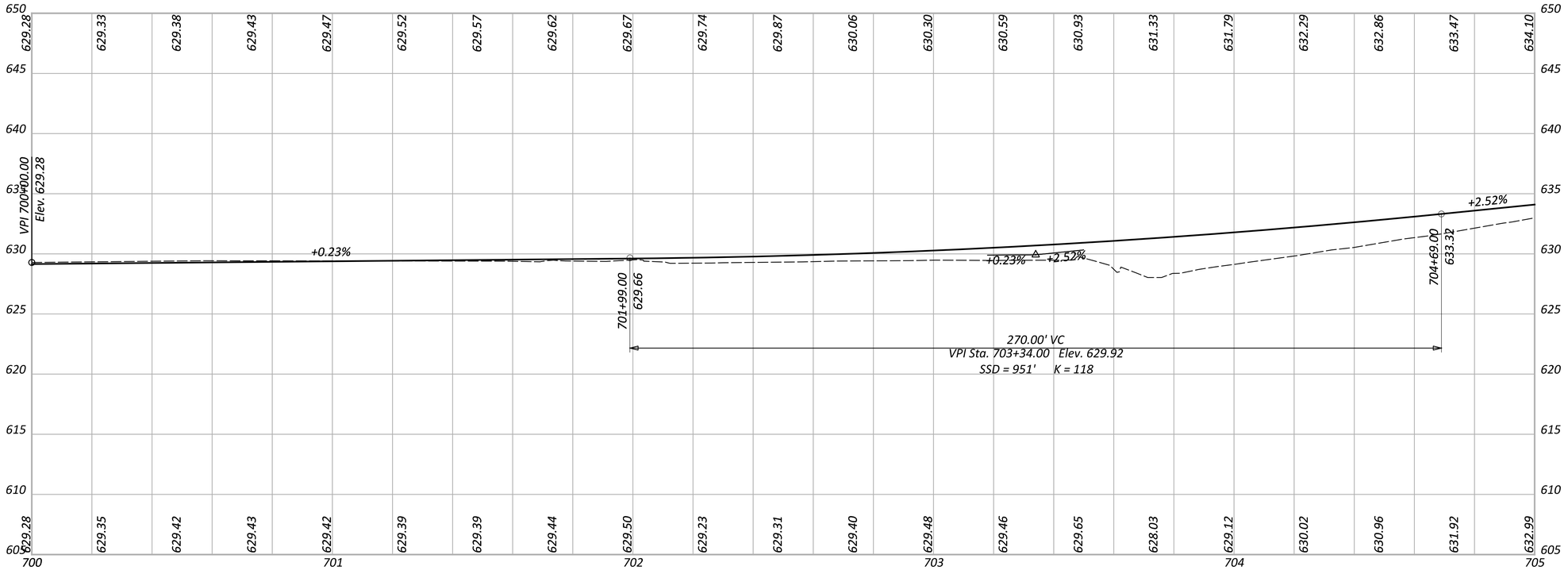
DESIGNER TEH

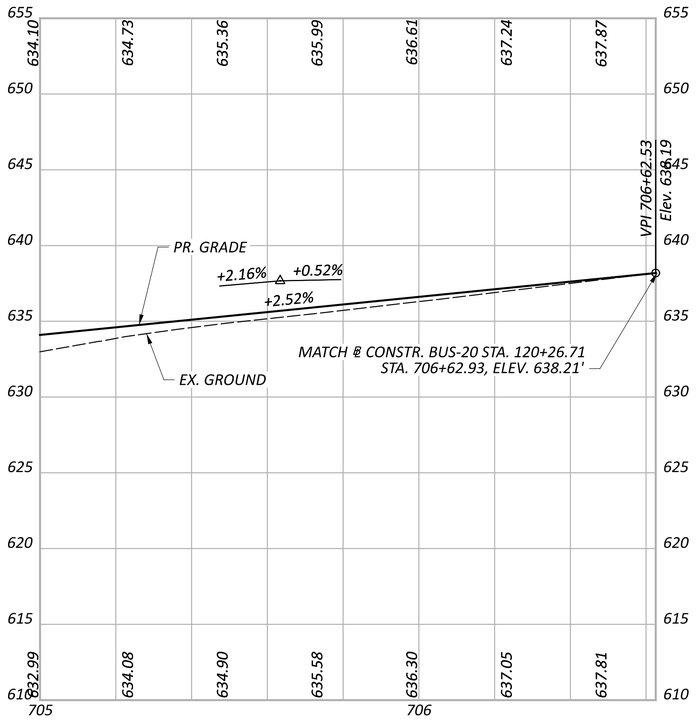
REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.40 | TOTAL 169

PROFILE SHEET
WB US-20 ROUNDABOUT





CTY-RTE-SECTION

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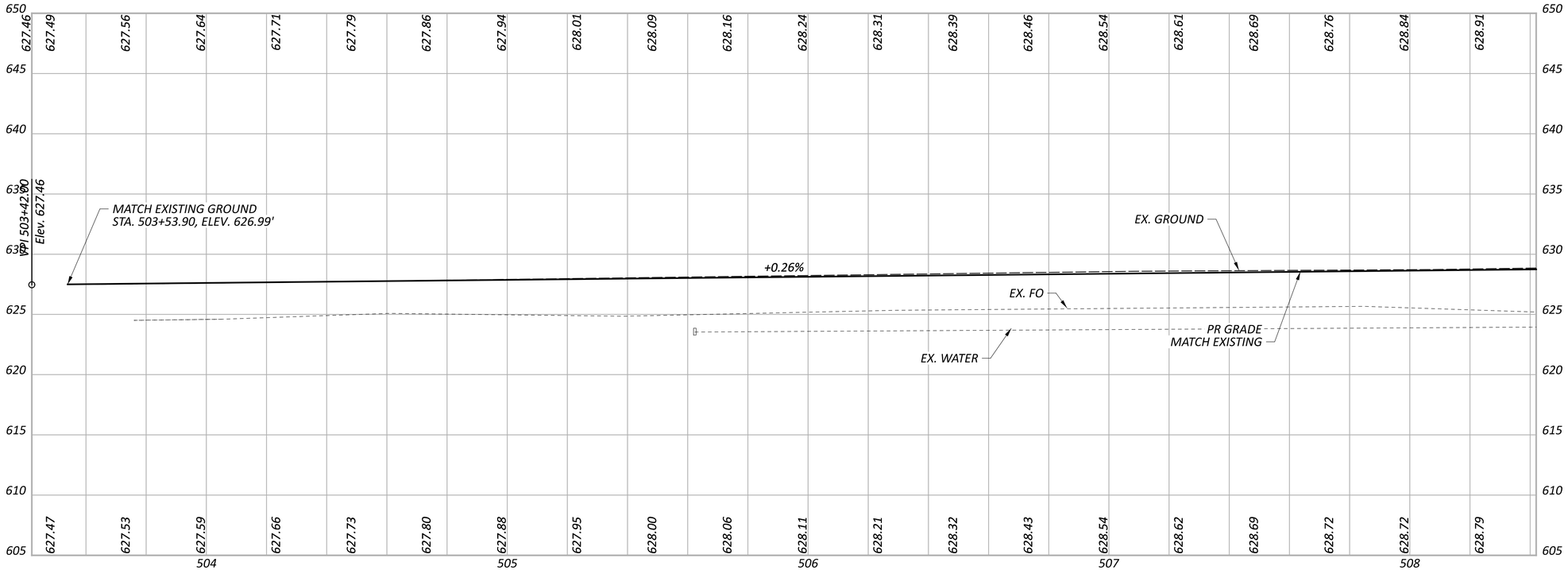
PROFILE SHEET
EB BUS-20 CONNECTOR

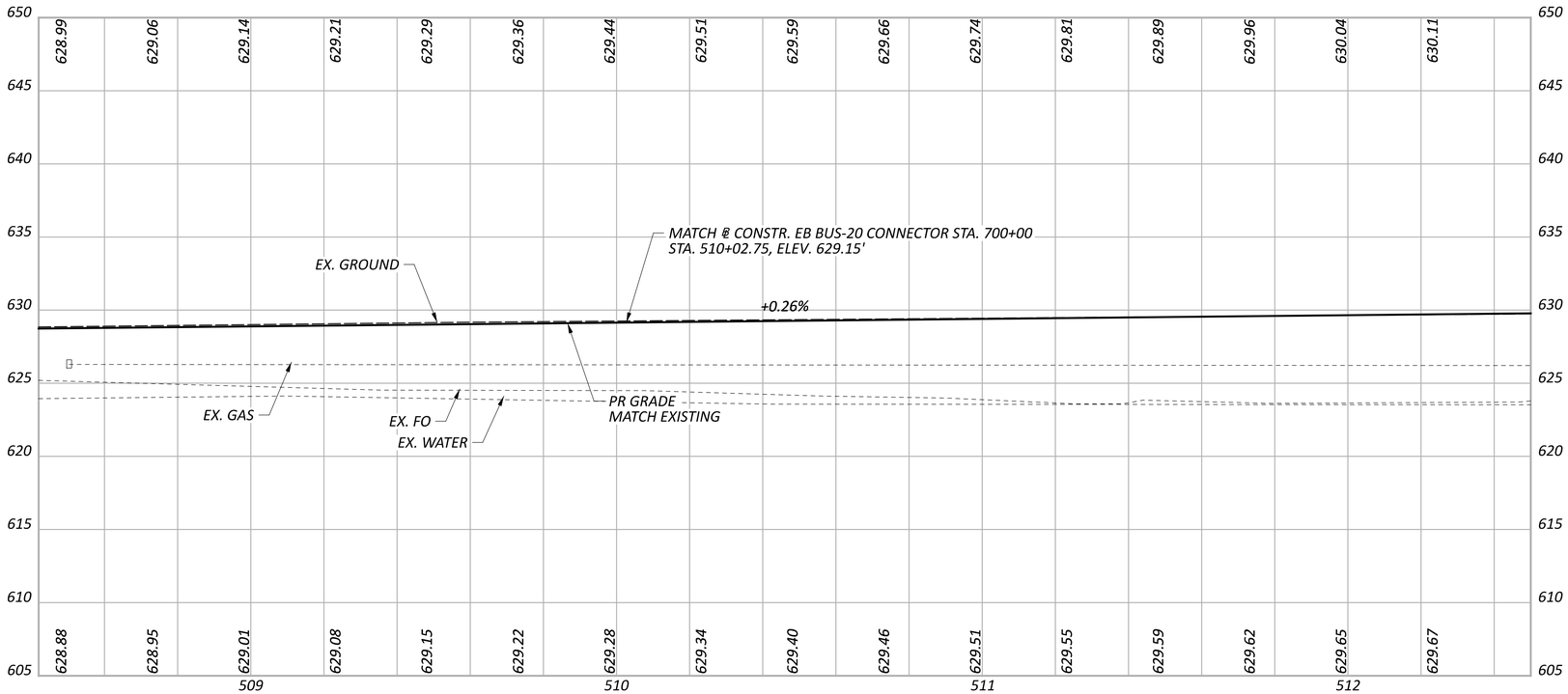
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222





PROFILE SHEET
EB BUS-20

CTY-RTE-SECTION

MODEL: 112222_GP036 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:15:30 PM USER: PIA81677
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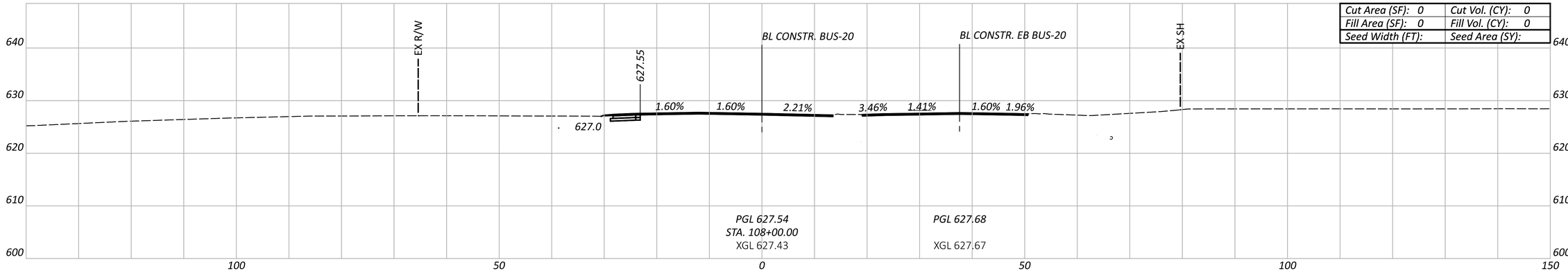
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

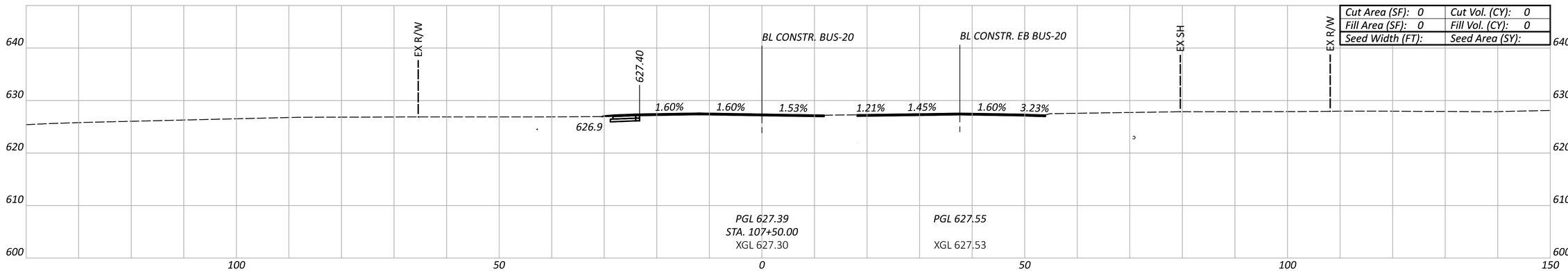
DESIGNER
TEH

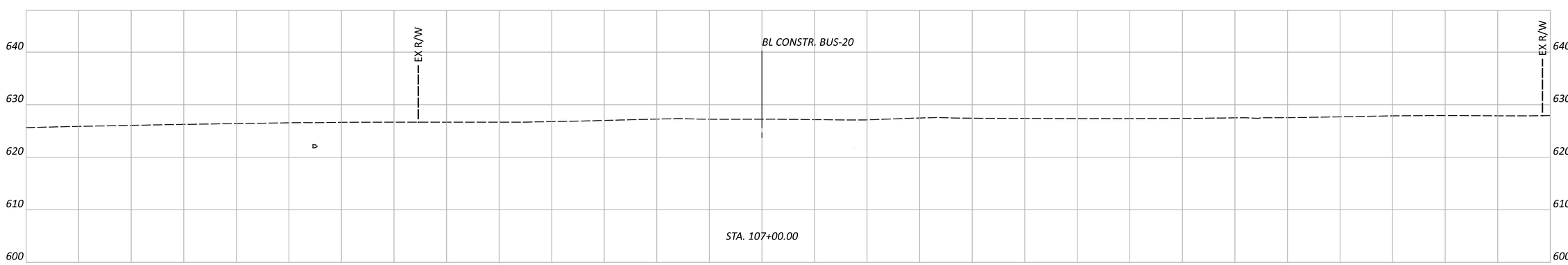
REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.42 | TOTAL 169







CROSS SECTIONS - BUS-20
STA. 107+00 TO STA. 108+00

CTY-RTE-SECTION

MODEL: BUS-20 - 107+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:15:45 PM USER: PIA81677
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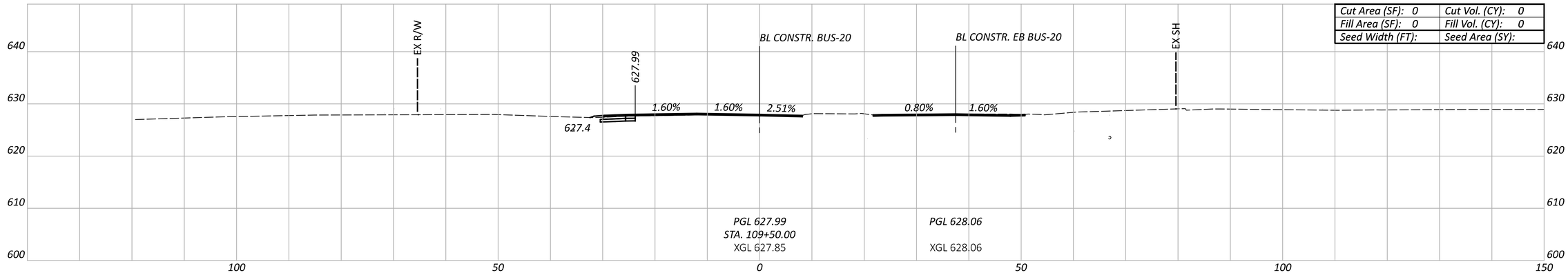
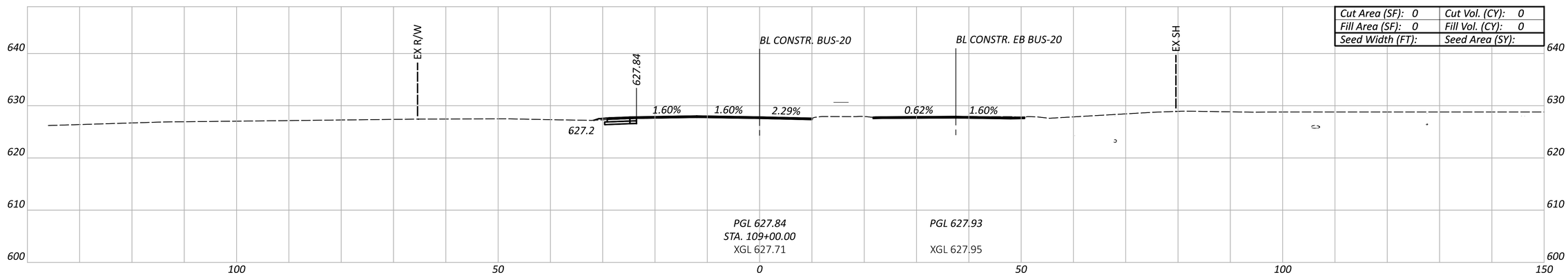
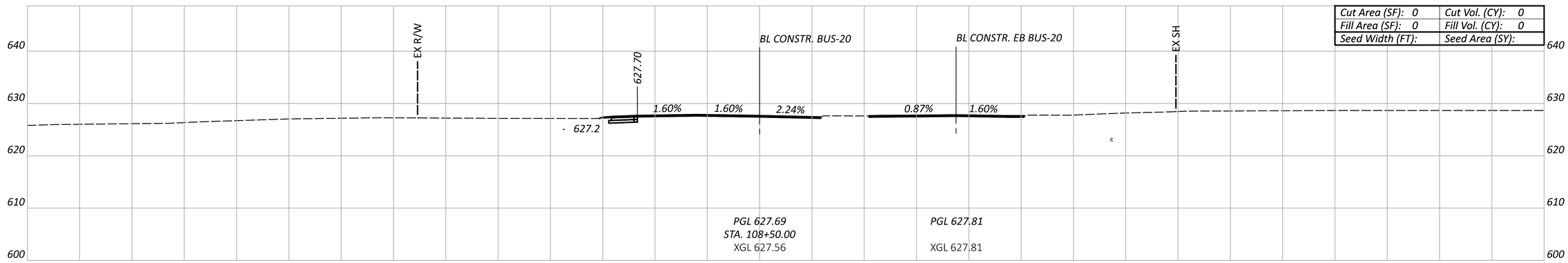
Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER: TEH
REVIEWER: SJP 07/26/24
PROJECT ID: 112222
SHEET: P.43
TOTAL: 169







CROSS SECTIONS - BUS-20
STA. 108+50 TO STA. 109+50

CTY-RTE-SECTION

MODEL: BUS-20 - 108+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:15:53 PM USER: PIA81677
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Sheet Totals

Seeding	Cut	Fill

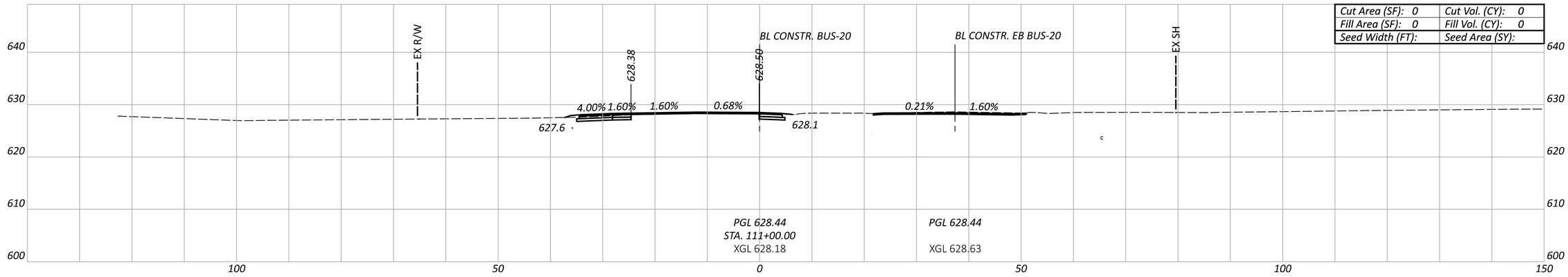
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.44 TOTAL 169



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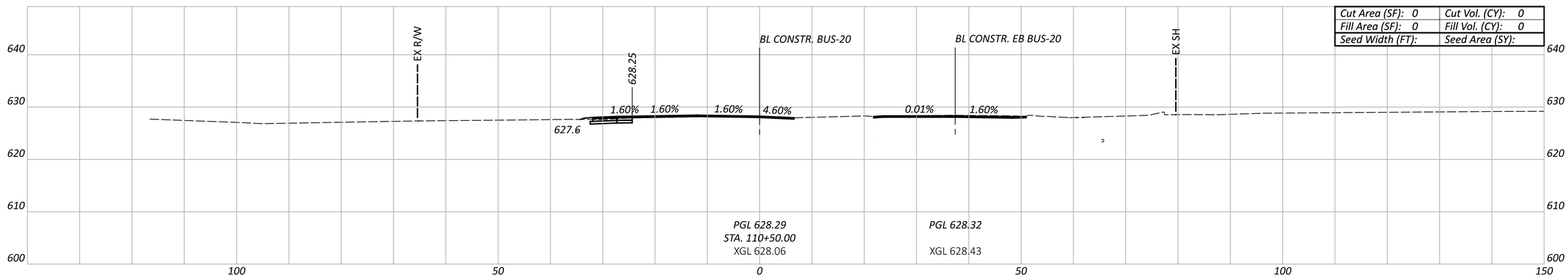

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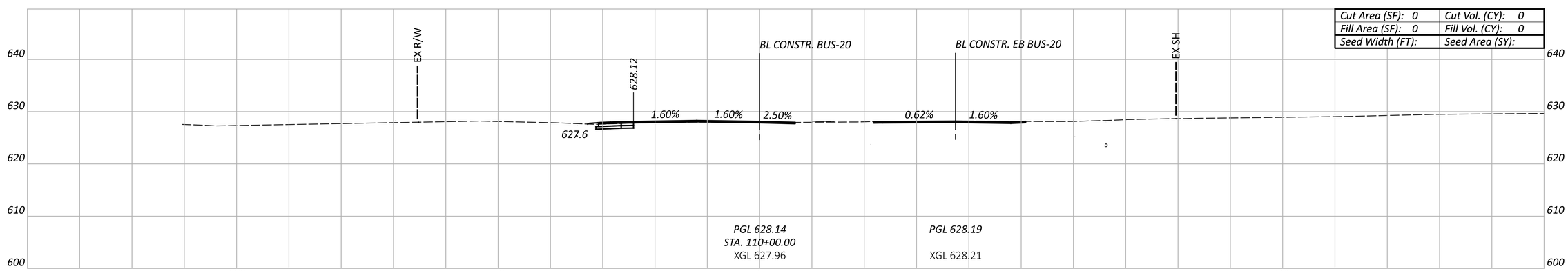

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):

Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS - BUS-20
STA. 110+00 TO STA. 111+00

CTY-RTE-SECTION

MODEL: BUS-20 - 110+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:15:59 PM USER: PIA81677
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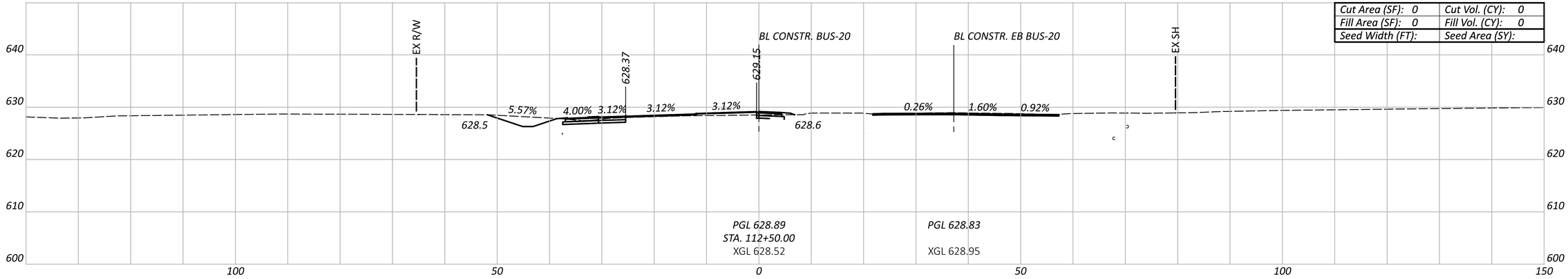
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER	TEH
REVIEWER	SJP 07/26/24
PROJECT ID	112222
SHEET	P.45
TOTAL	169



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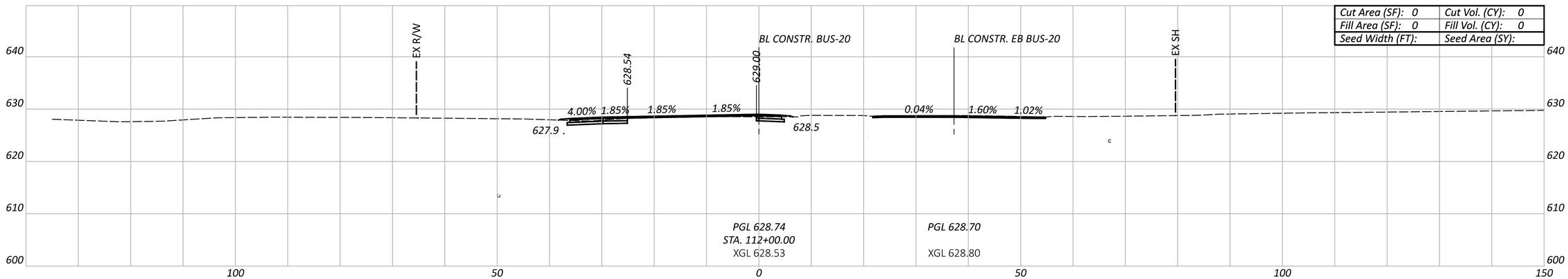

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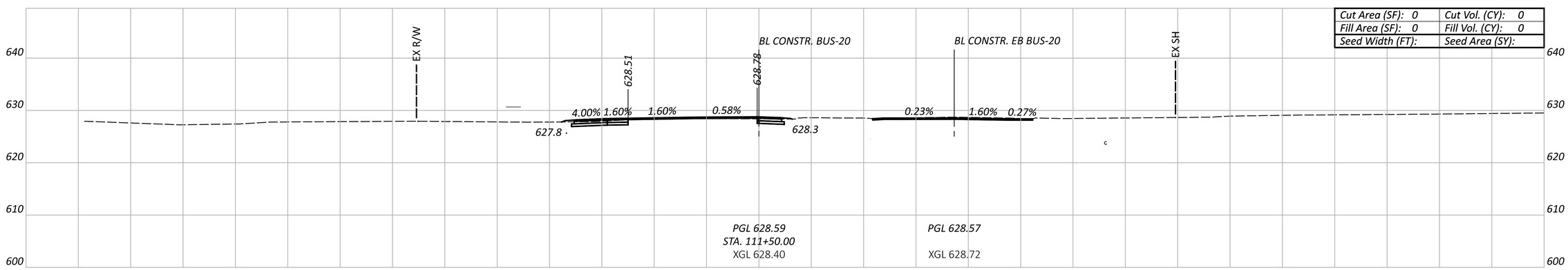

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Seed Width (FT):	Seed Area (SY):

Sheet Totals		
Seeding	Cut	Fill

CTY-RTE-SECTION

MODEL: BUS-20 - 111+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:16:05 PM USER: PIA81677
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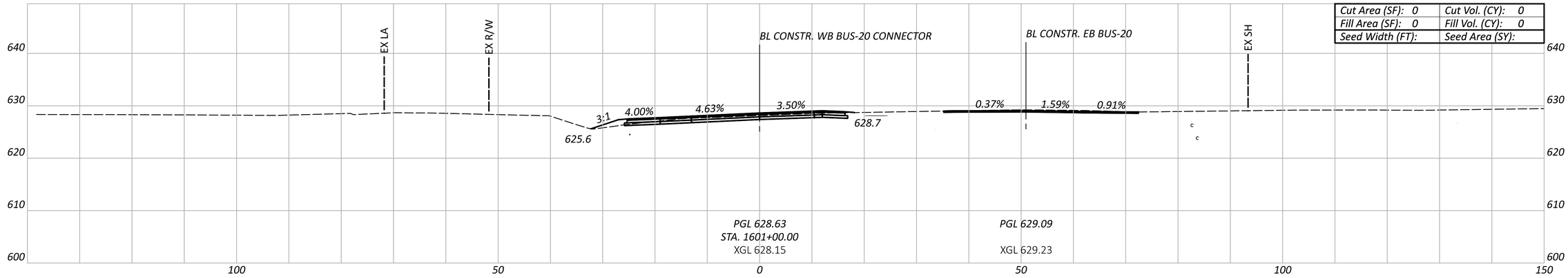
CROSS SECTIONS - BUS-20
STA. 111+50 TO STA. 112+50

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER: TEH

REVIEWER: SJP 07/26/24

PROJECT ID: 112222



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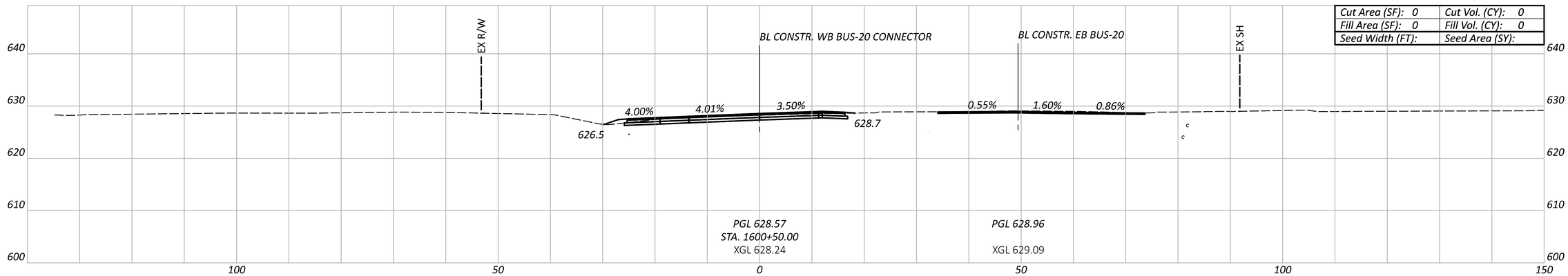

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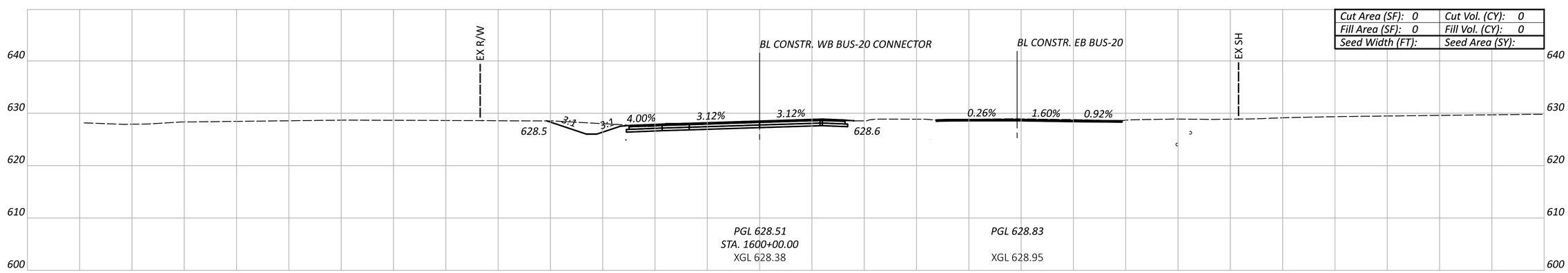

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):

Sheet Totals		
Seeding	Cut	Fill

CTY-RTE-SECTION

MODEL: US-20 BUS WB - 1600+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:16:23 PM USER: PIA81677
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CROSS SECTIONS - WB BUS-20
STA. 1600+00 TO STA. 1601+00

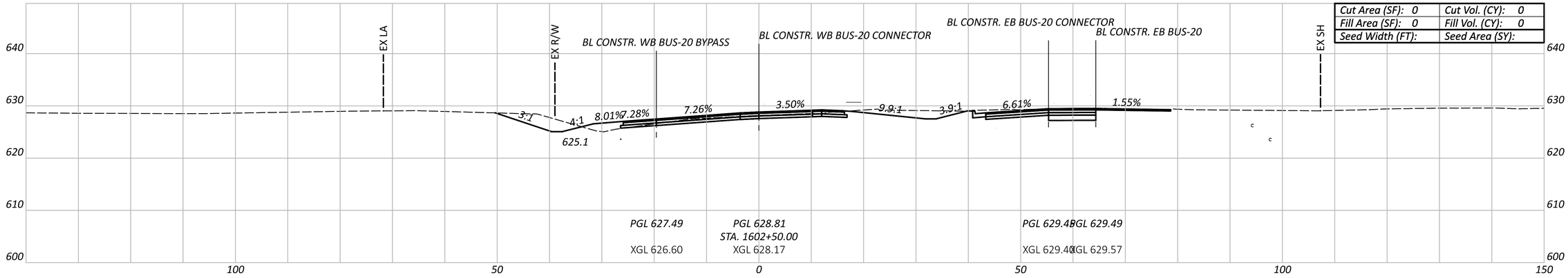
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.47 TOTAL 169



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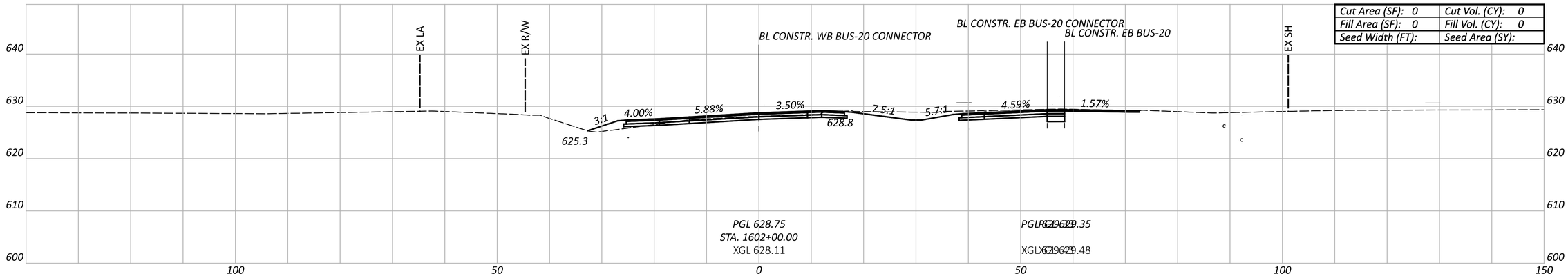

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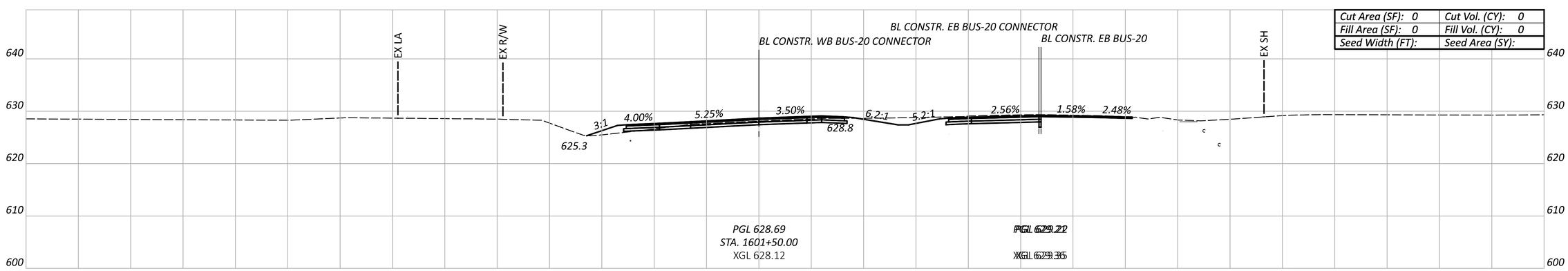

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):

Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS - WB BUS-20
STA. 1601+50 TO STA. 1602+50

CTY-RTE-SECTION

MODEL: US-20 BUS WB - 1601+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:16:31 PM USER: PIA81677
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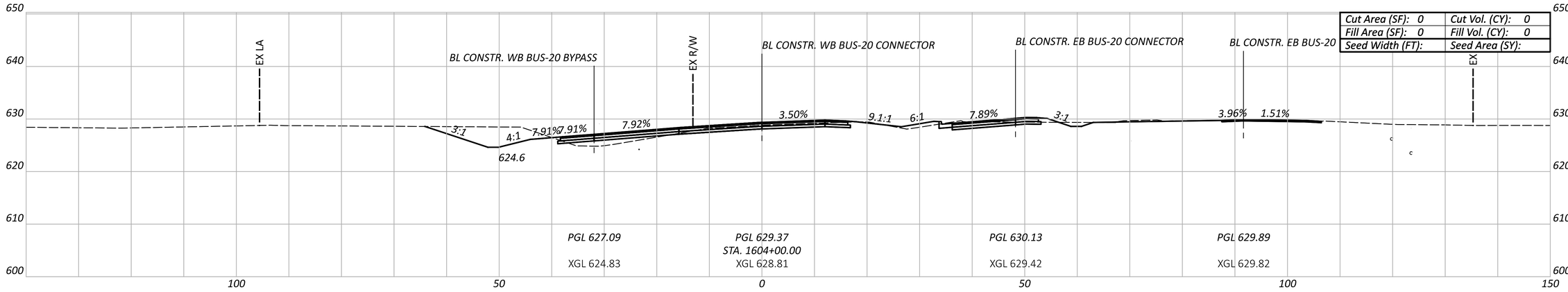
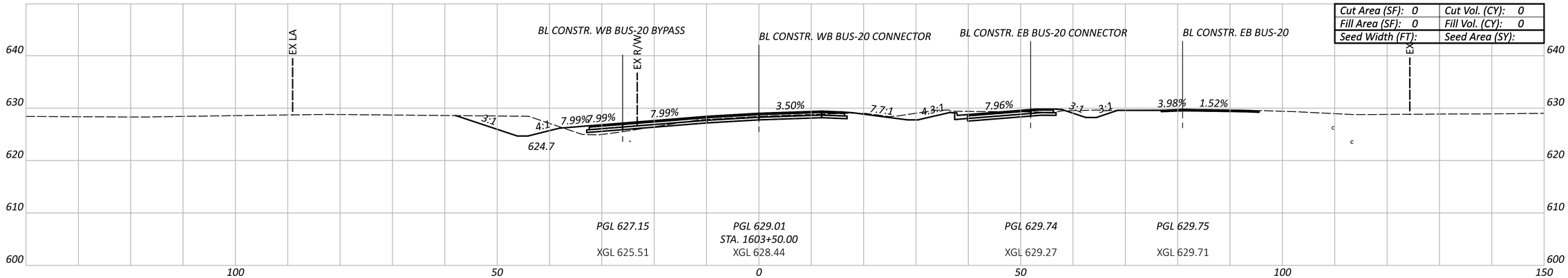
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

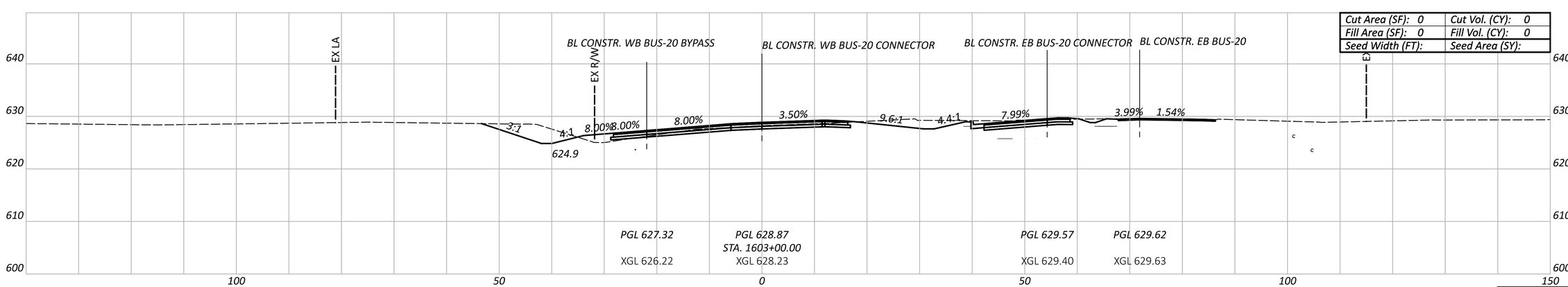
DESIGNER: TEH

REVIEWER: SJP 07/26/24

PROJECT ID: 112222







CROSS SECTIONS - WB BUS-20
STA. 1603+00 TO STA. 1604+00

CTY-RTE-SECTION

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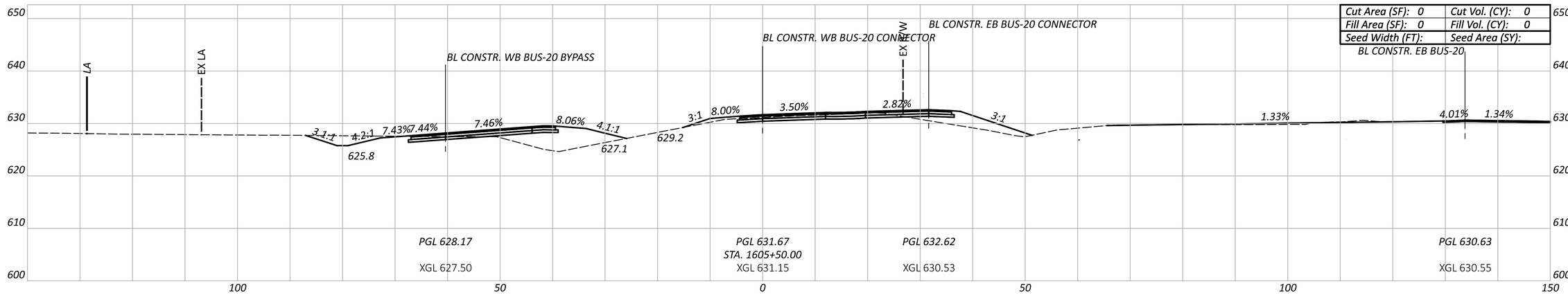
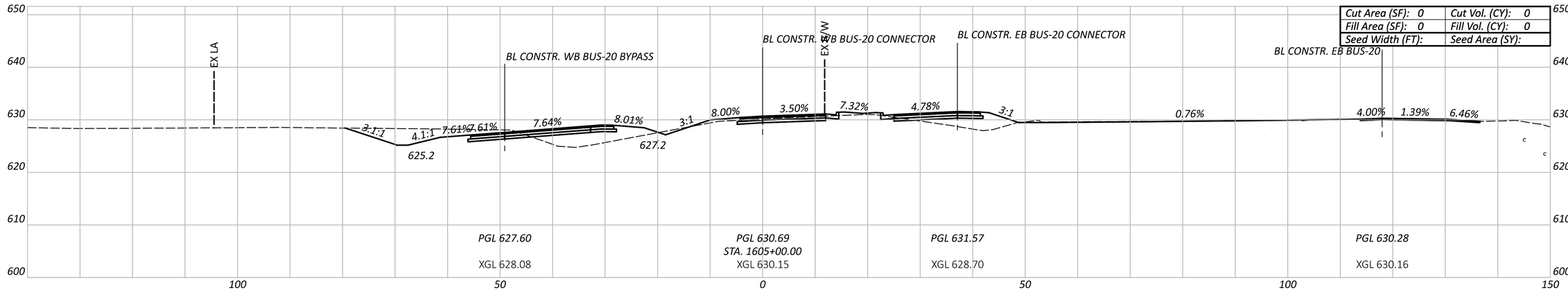
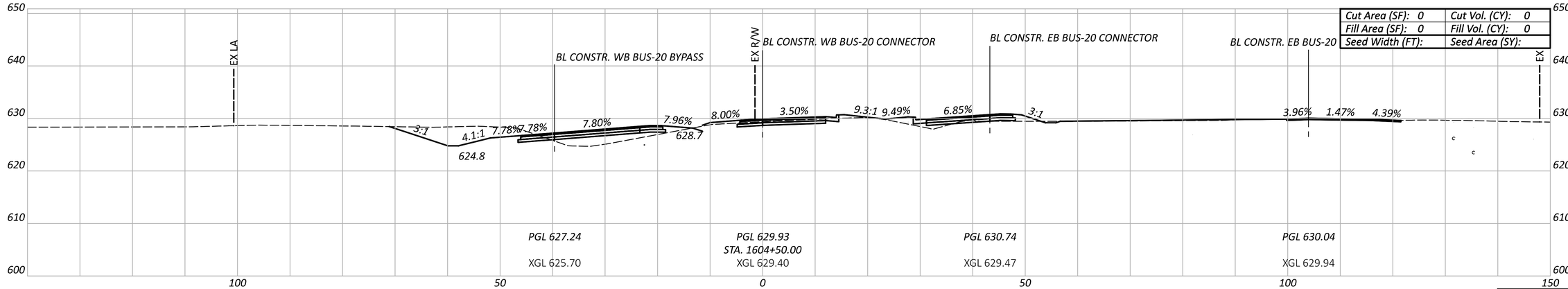
Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER: TEH
REVIEWER: SJP 07/26/24
PROJECT ID: 112222







CTY-RTE-SECTION

CROSS SECTIONS - WB BUS-20
STA. 1604+50 TO STA. 1605+50

MODEL: US-20 BUS WB - 1604+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:16:47 PM USER: PIA81677
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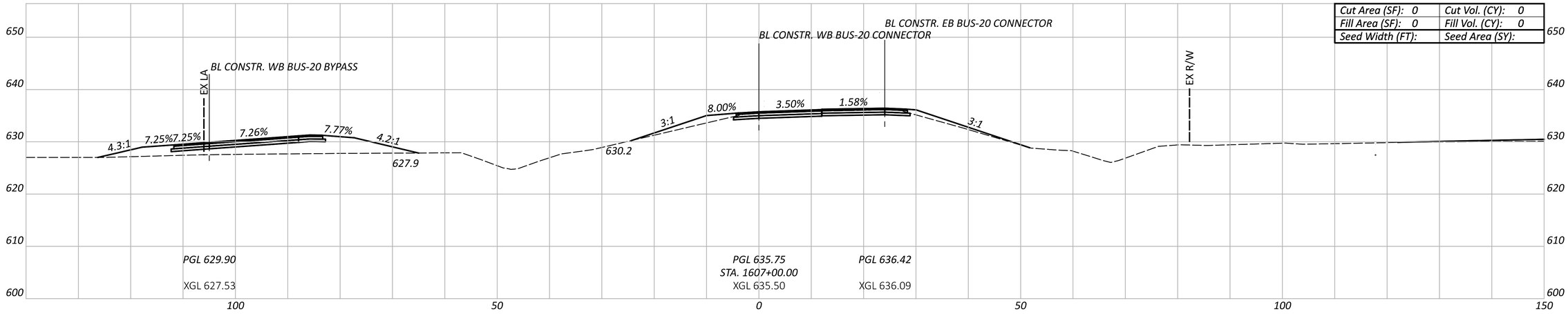
Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER	TEH
REVIEWER	SJP 07/26/24
PROJECT ID	112222
SHEET	P.50
TOTAL	169



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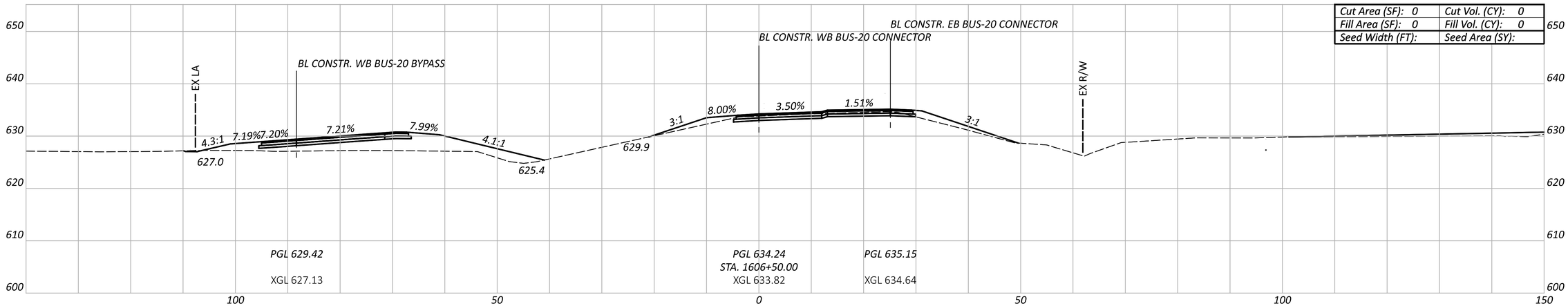

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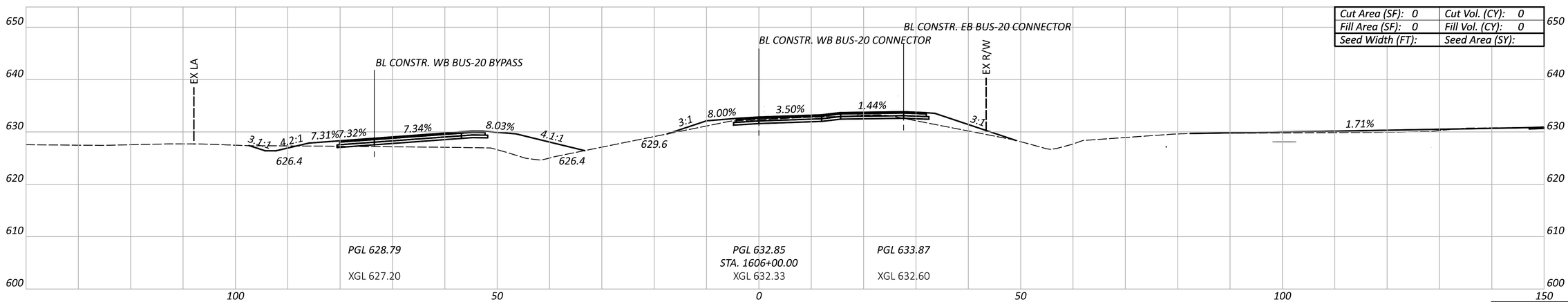

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):

CROSS SECTIONS - WB BUS-20
STA. 1606+00 TO STA. 1607+00

CTY-RTE-SECTION

MODEL: US-20 BUS WB - 1606+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:16:58 PM USER: PIA81677
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Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER: TEH
REVIEWER: SJP 07/26/24
PROJECT ID: 112222
SHEET: P.51 TOTAL: 169

CTY-RTE-SECTION

MODEL: US-20 BUS WB - 1607+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:17:05 PM USER: PIA81677
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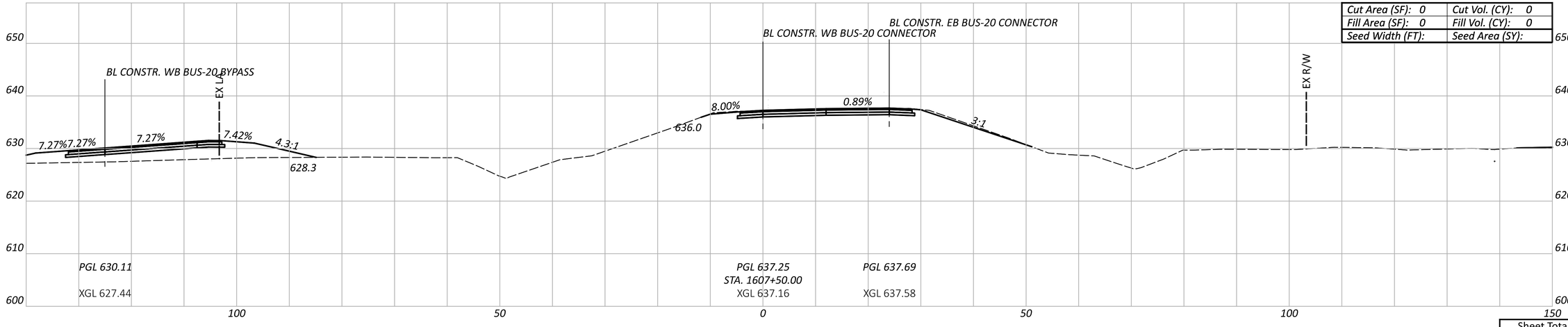
CROSS SECTIONS - WB BUS-20
STA. 1607+50



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Sheet Totals		
Seeding	Cut	Fill

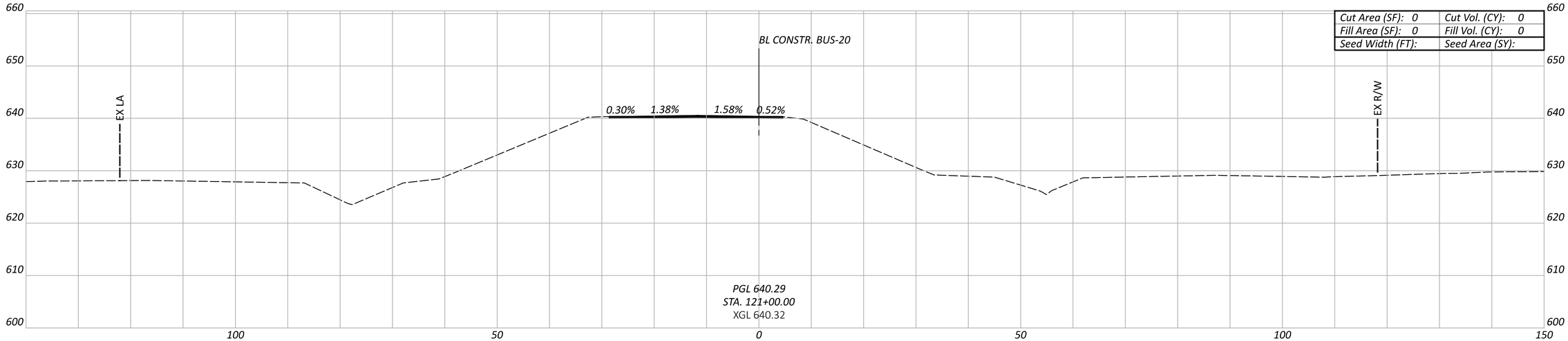
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

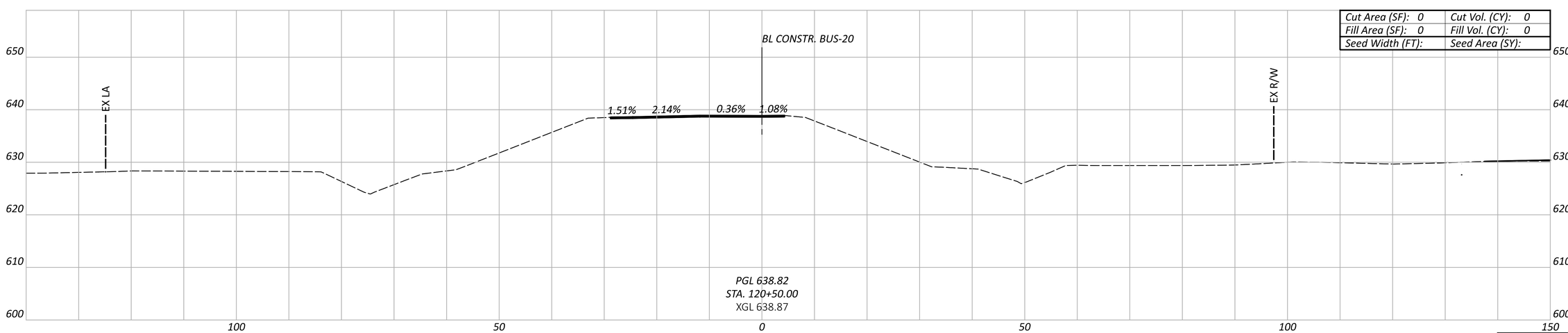
DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.52 TOTAL 169





CROSS SECTIONS - BUS-20
STA. 120+50 TO STA. 121+00

CTY-RTE-SECTION

MODEL: BUS-20 - 120+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:17:23 PM USER: PIA81677
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Sheet Totals		
Seeding	Cut	Fill

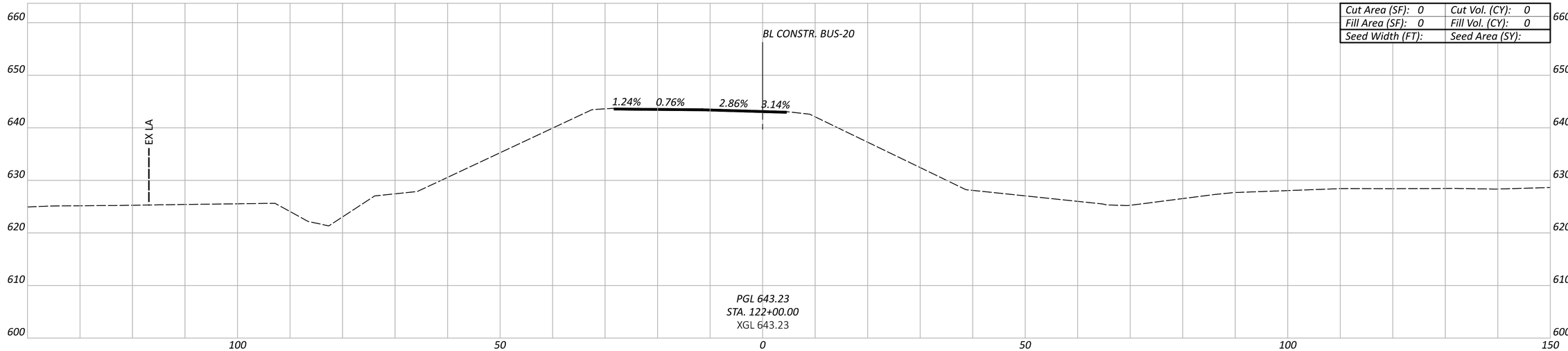
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

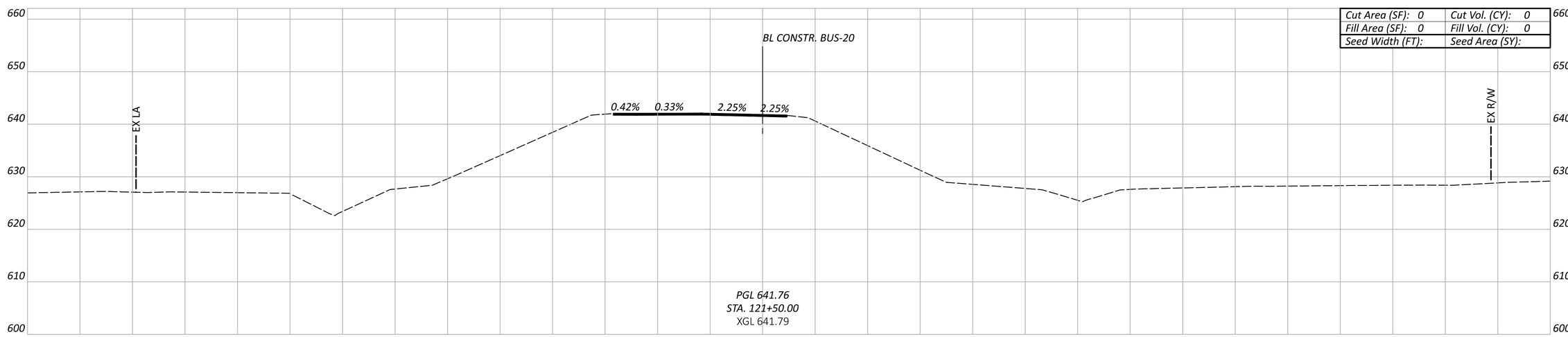
DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.53 | TOTAL 169





CROSS SECTIONS - BUS-20
STA. 121+50 TO STA. 122+00

CTY-RTE-SECTION

MODEL: BUS-20 - 121+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:17:27 PM USER: PIA81677
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Sheet Totals		
Seeding	Cut	Fill

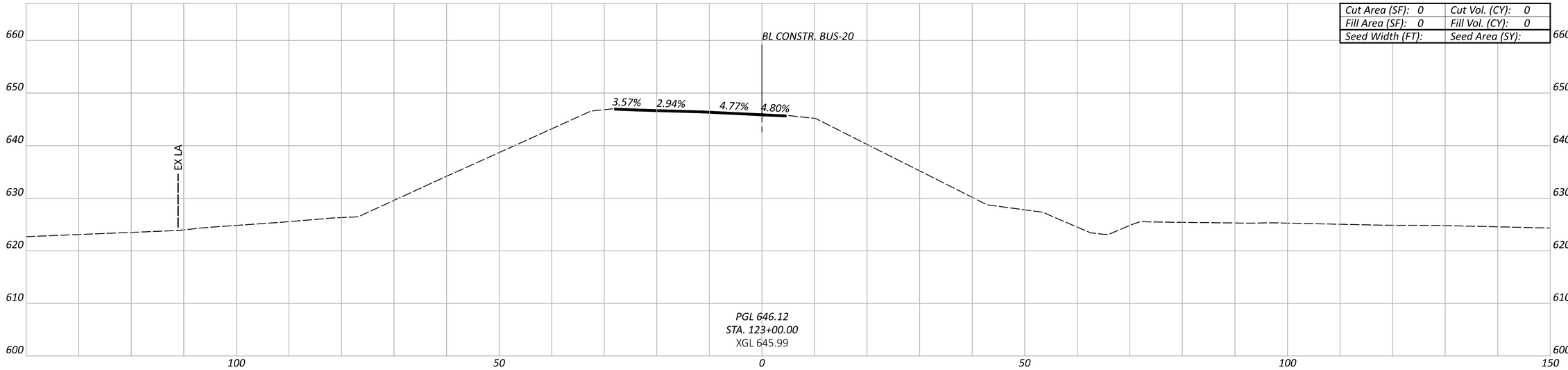
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

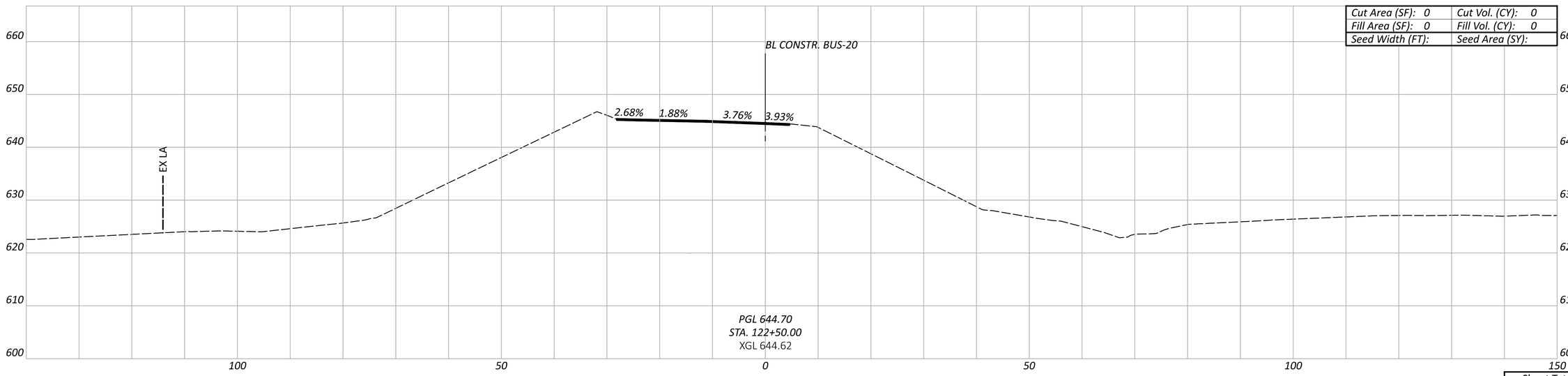
DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.54 TOTAL 169





CTY-RTE-SECTION

MODEL: BUS-20 - 122+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:17:31 PM USER: PIA81677
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CROSS SECTIONS - BUS-20
STA. 122+50 TO STA. 123+00

Sheet Totals		
Seeding	Cut	Fill

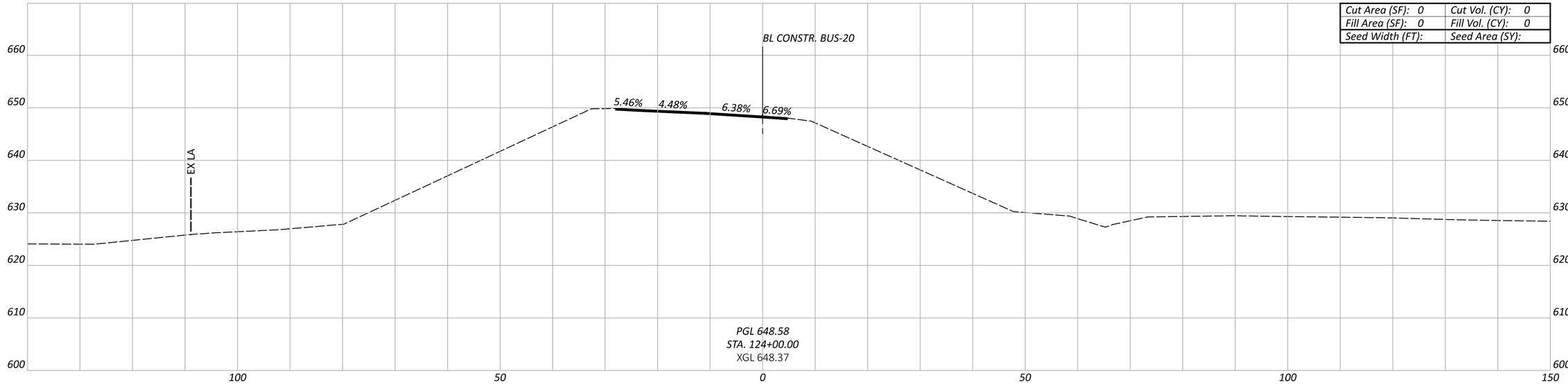
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

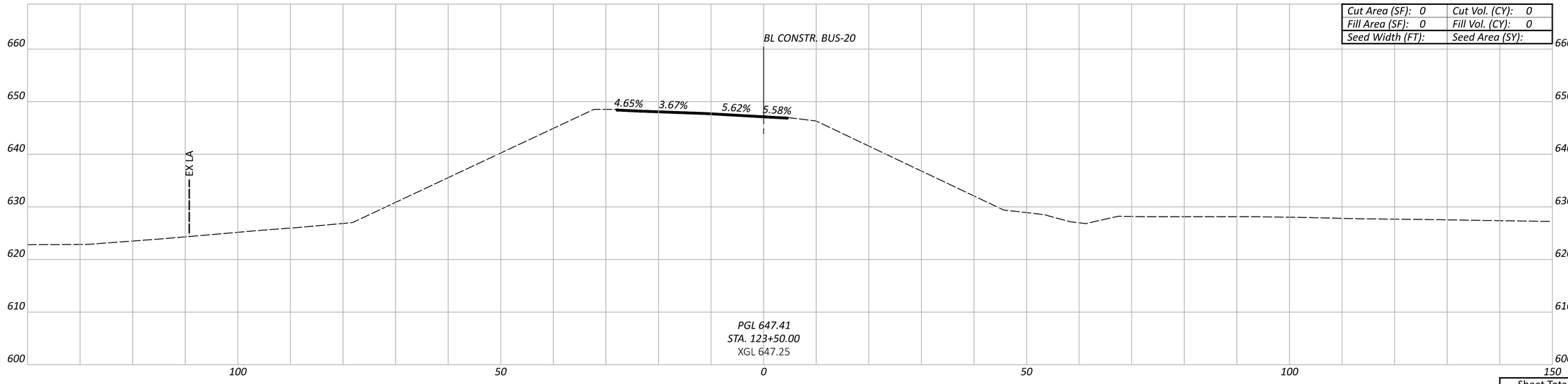
DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.55 TOTAL 169





CTY-RTE-SECTION

MODEL: BUS-20 - 123+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:17:35 PM USER: PIA81677
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CROSS SECTIONS - BUS-20
STA. 123+50 TO STA. 124+00

Sheet Totals		
Seeding	Cut	Fill

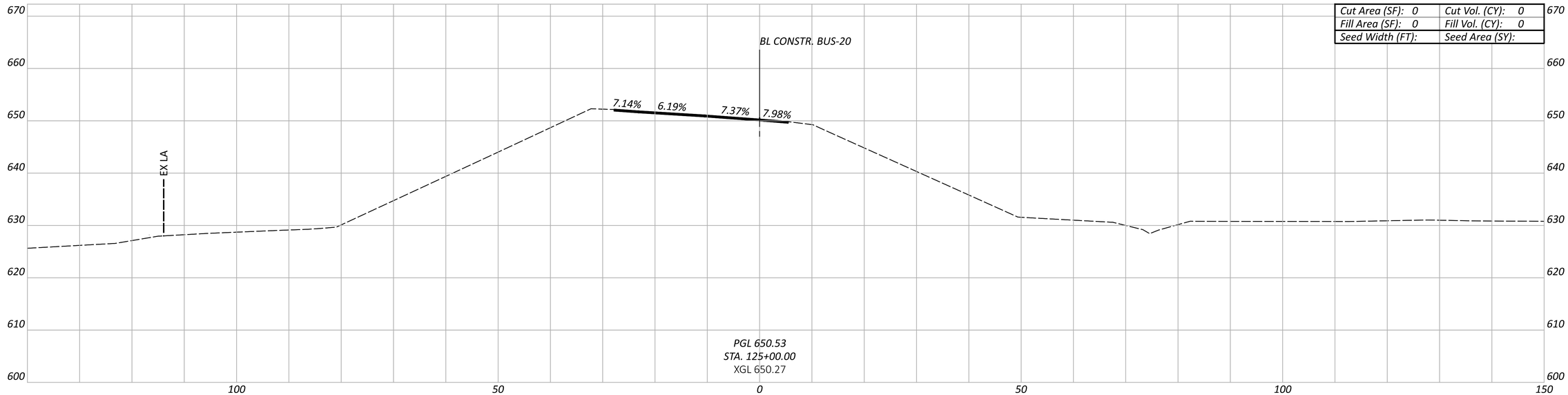
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

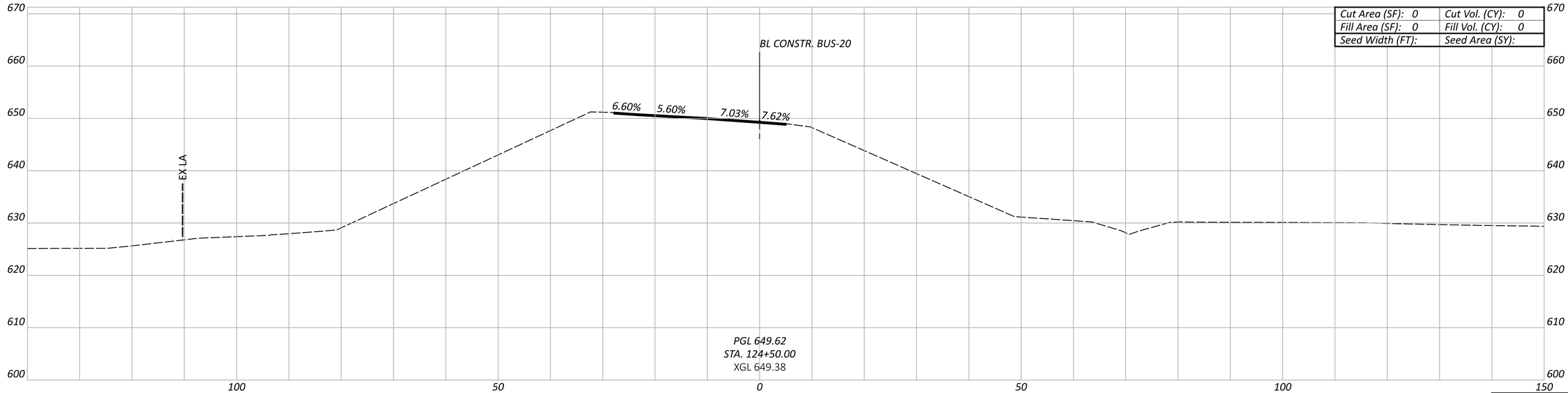
DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.56 TOTAL 169





CTY-RTE-SECTION

MODEL: BUS-20 - 124+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:17:39 PM USER: PIA81677
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CROSS SECTIONS - BUS-20
STA. 124+50 TO STA. 125+00

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY

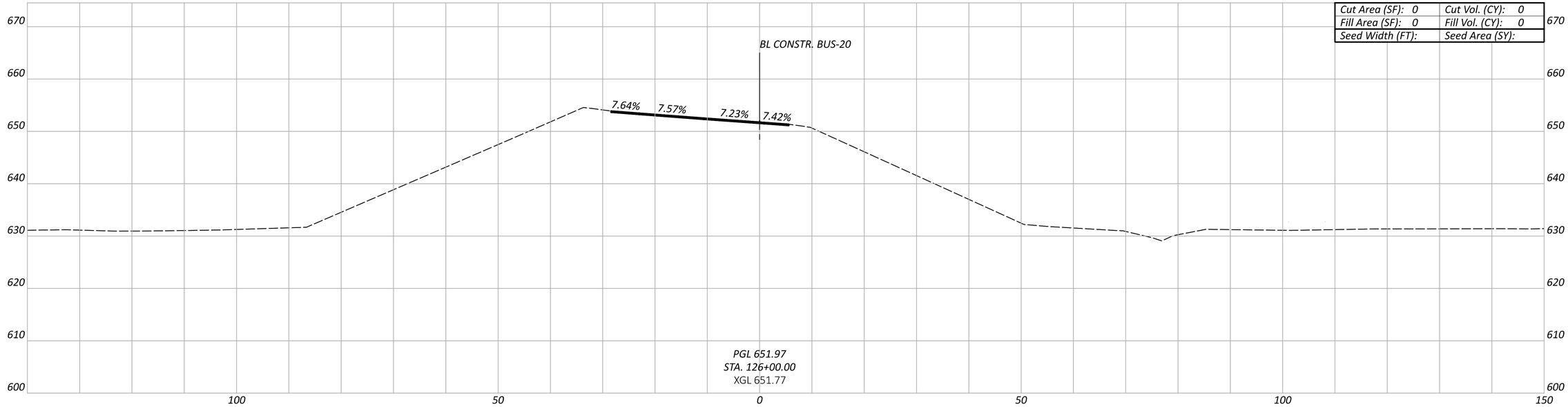
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

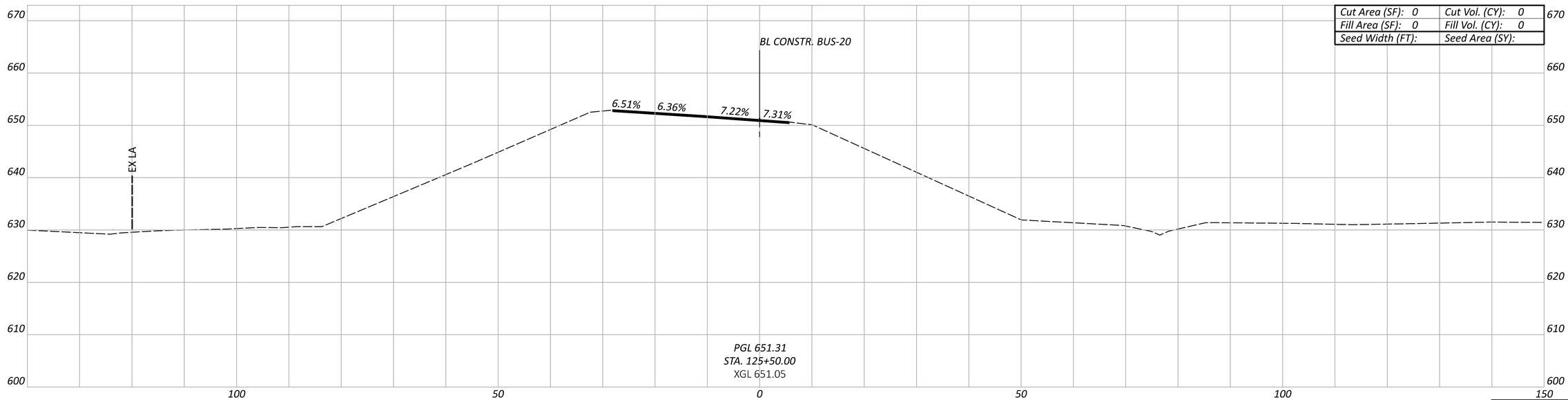
DESIGNER: TEH

REVIEWER: SJP 07/26/24

PROJECT ID: 112222

SHEET: P.57 TOTAL: 169





CROSS SECTIONS - BUS-20
STA. 125+50 TO STA. 126+00

CTY-RTE-SECTION

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Sheet Totals		
Seeding	Cut	Fill

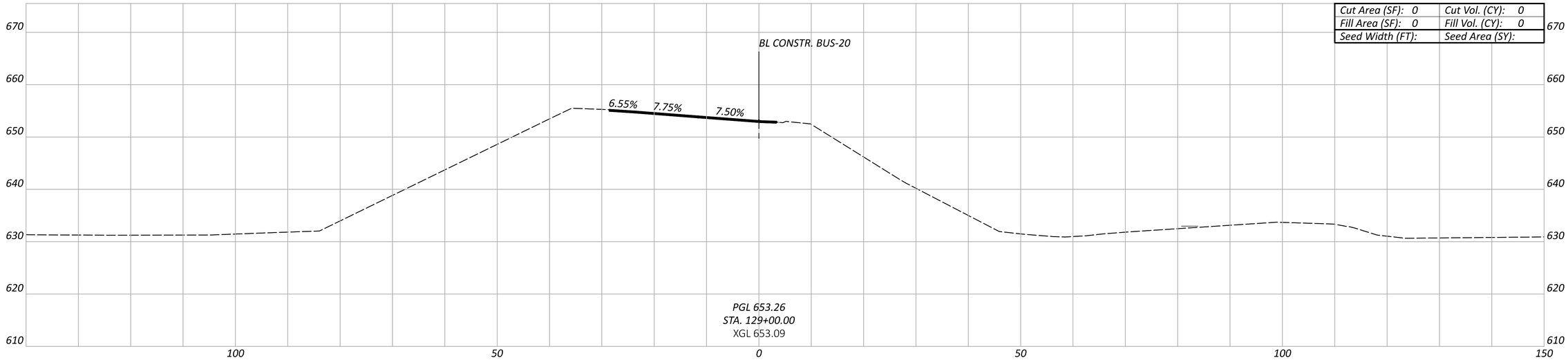
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.58 | TOTAL 169



CROSS SECTIONS - BUS-20
STA. 129+00

CTY-RTE-SECTION

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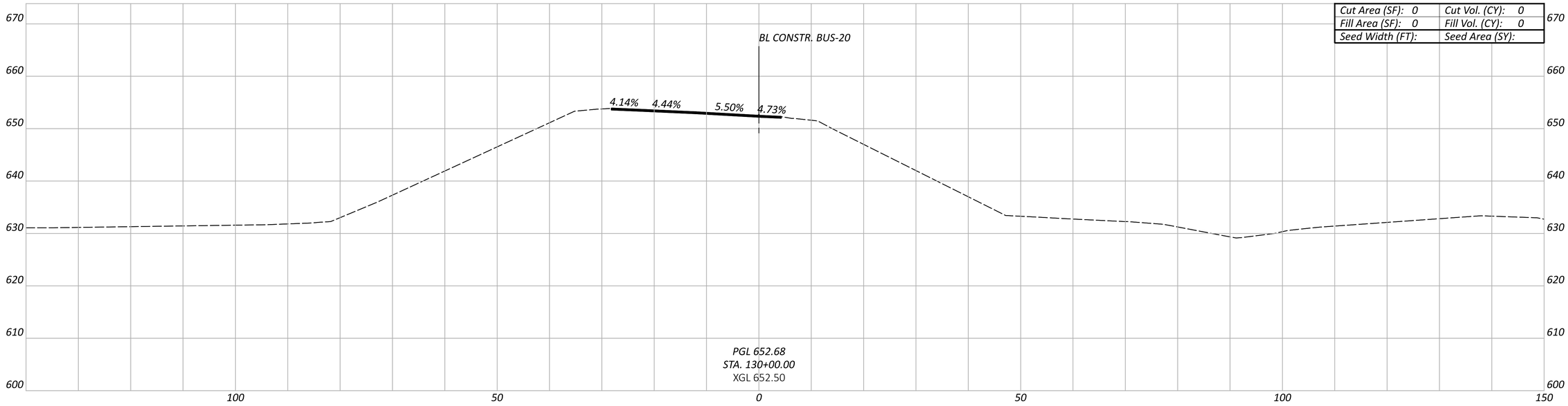
Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER TEH
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.59 TOTAL 169



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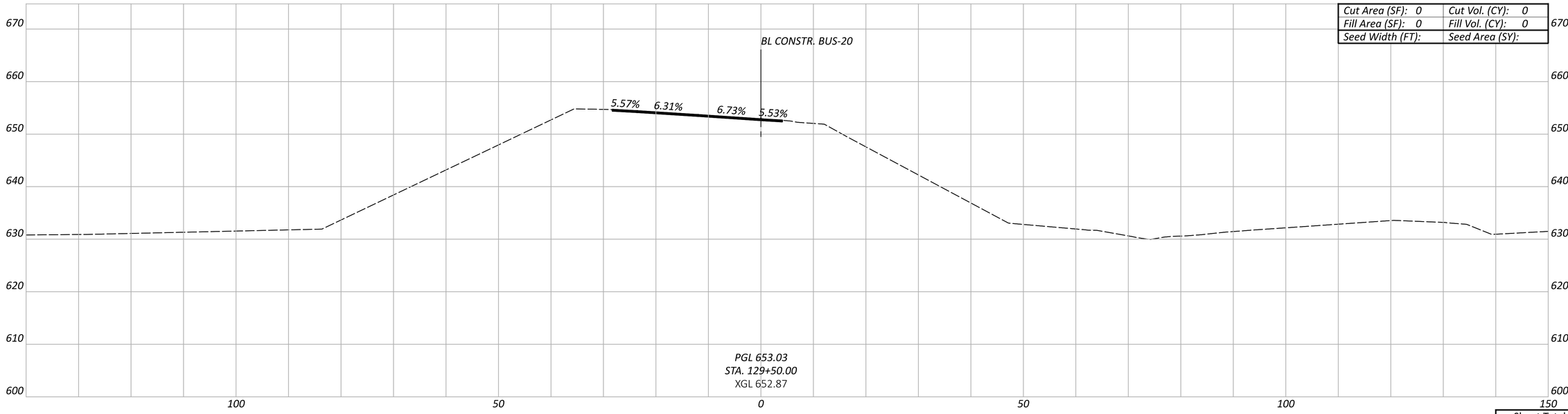

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Seed Width (FT):	Seed Area (SY):

Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS - BUS-20
STA. 129+50 TO STA. 130+00

CTY-RTE-SECTION

MODEL: BUS-20 - 129+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:17:50 PM USER: PIA81677
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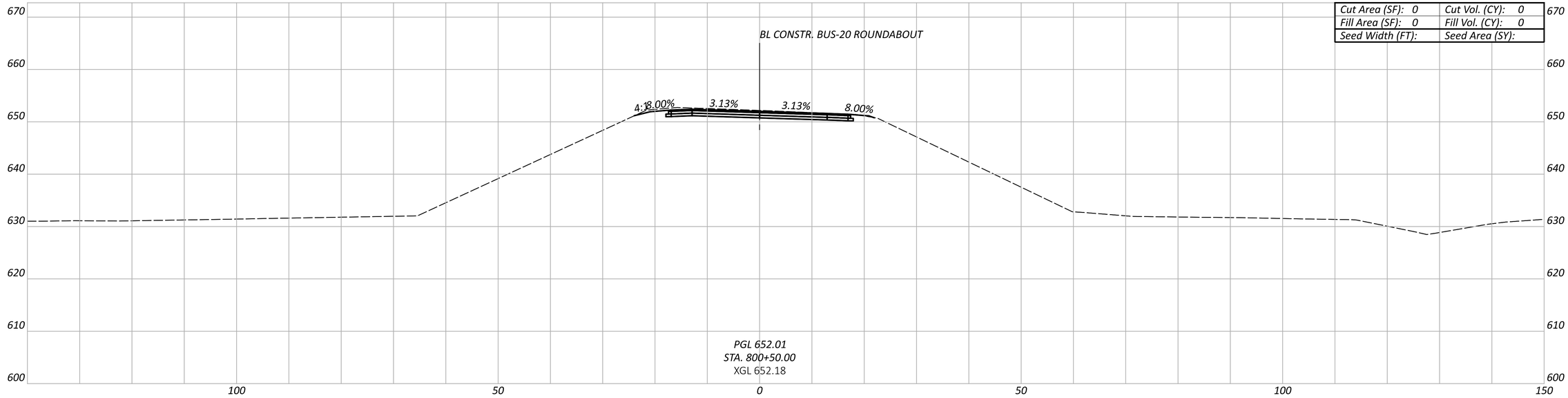
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

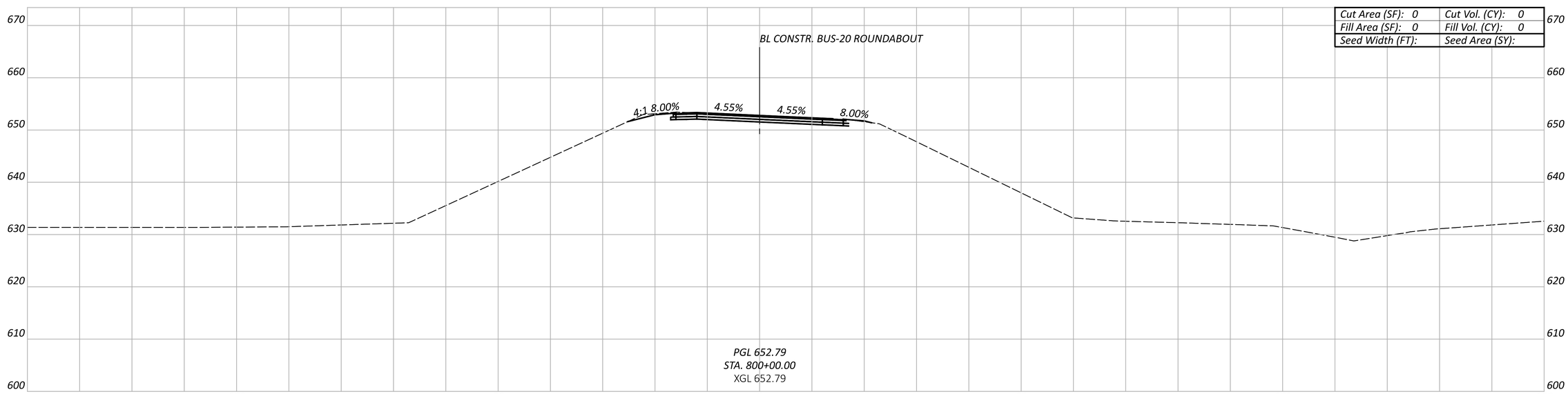
DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.60 | TOTAL 169





CROSS SECTIONS - RAB WEST
STA. 800+00 TO STA. 800+50

CTY-RTE-SECTION

MODEL: RAB West - 800+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:18:08 PM USER: PIA81677
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Sheet Totals		
Seeding	Cut	Fill

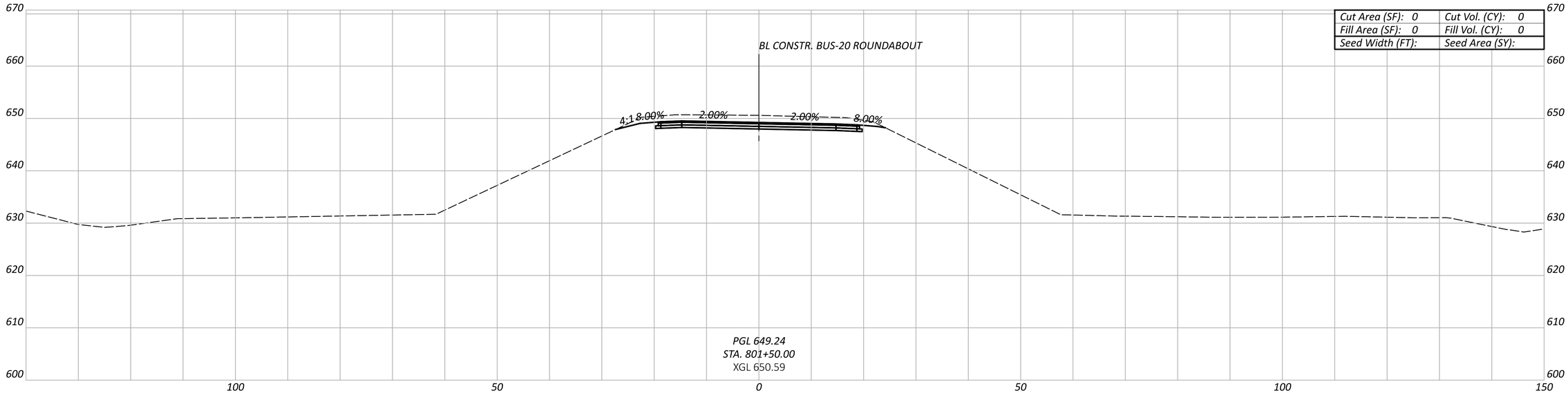
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

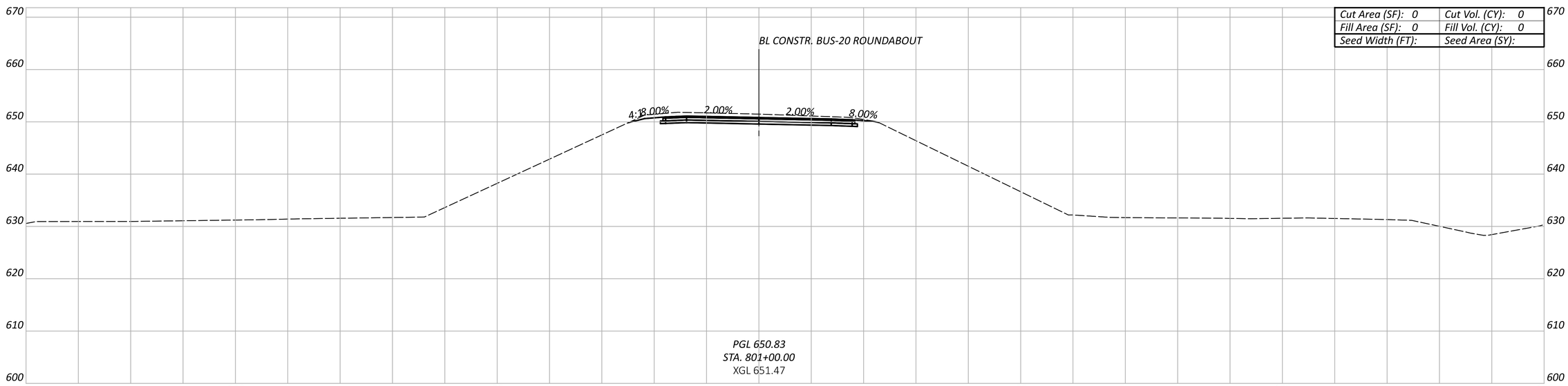
DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.61 TOTAL 169





CROSS SECTIONS - RAB WEST
STA. 801+00 TO STA. 801+50

CTY-RTE-SECTION

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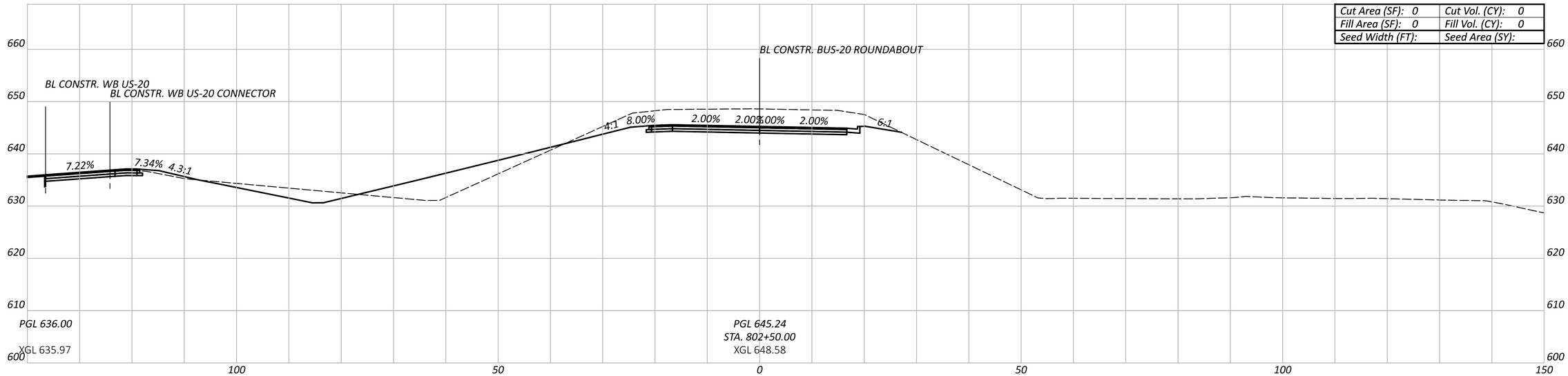
Sheet Totals		
Seeding	Cut	Fill

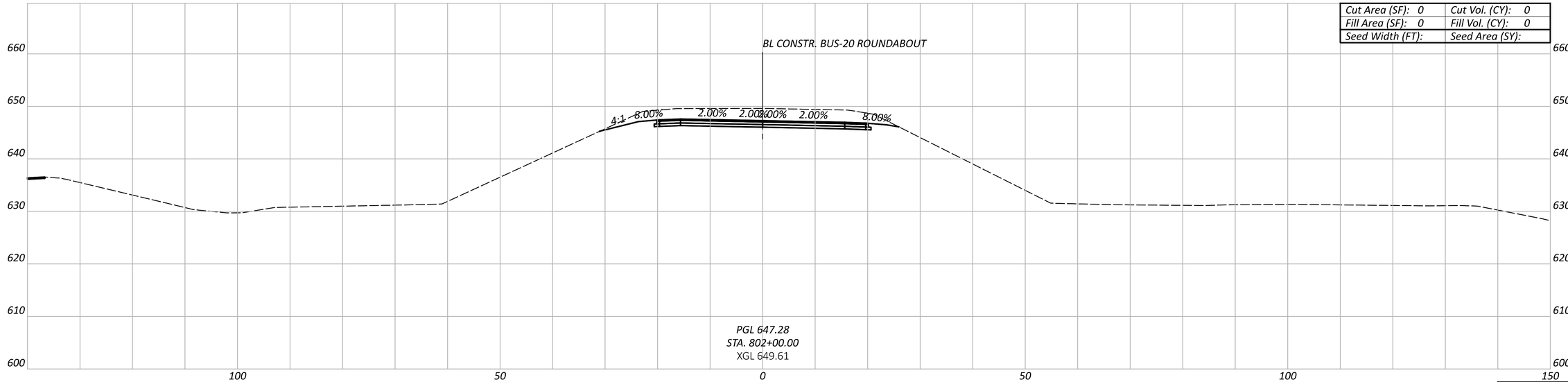
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222





CTY-RTE-SECTION

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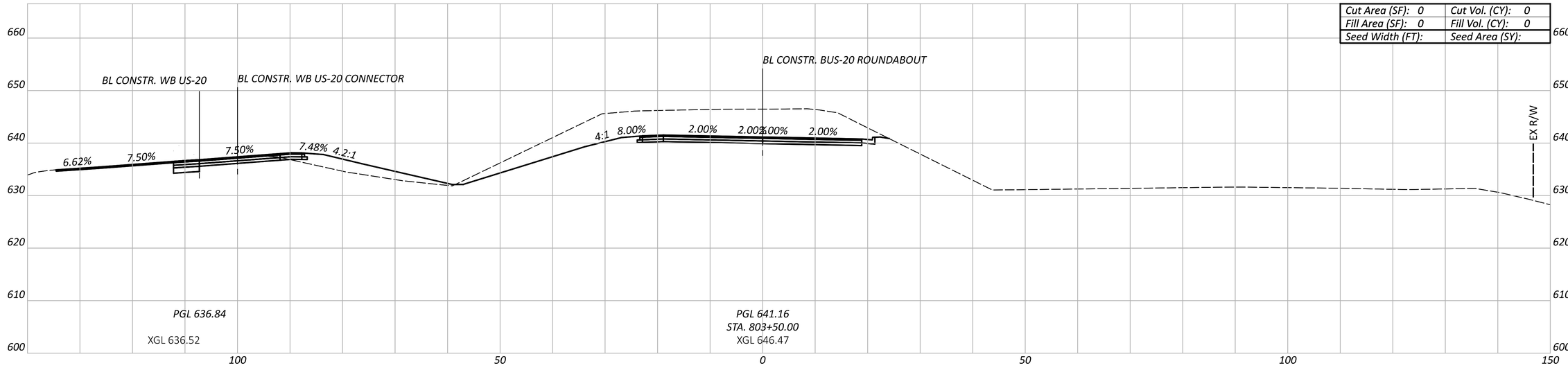
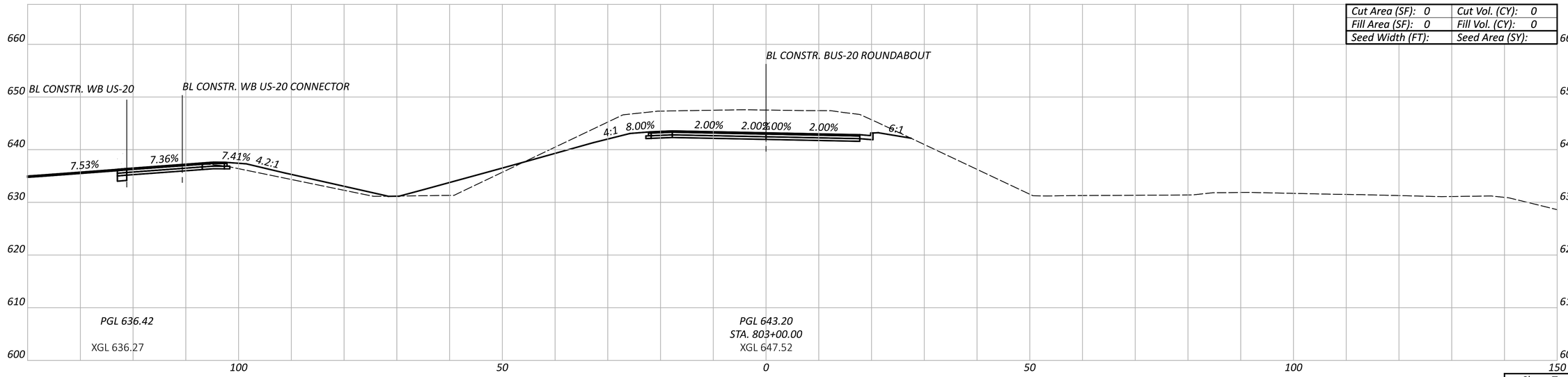
CROSS SECTIONS - RAB WEST
STA. 802+00 TO STA. 802+50

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER: TEH
REVIEWER: SJP 07/26/24
PROJECT ID: 112222
SHEET: P.63 TOTAL: 169





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CROSS SECTIONS - RAB WEST
STA. 803+00 TO STA. 803+50

Sheet Totals		
Seeding	Cut	Fill

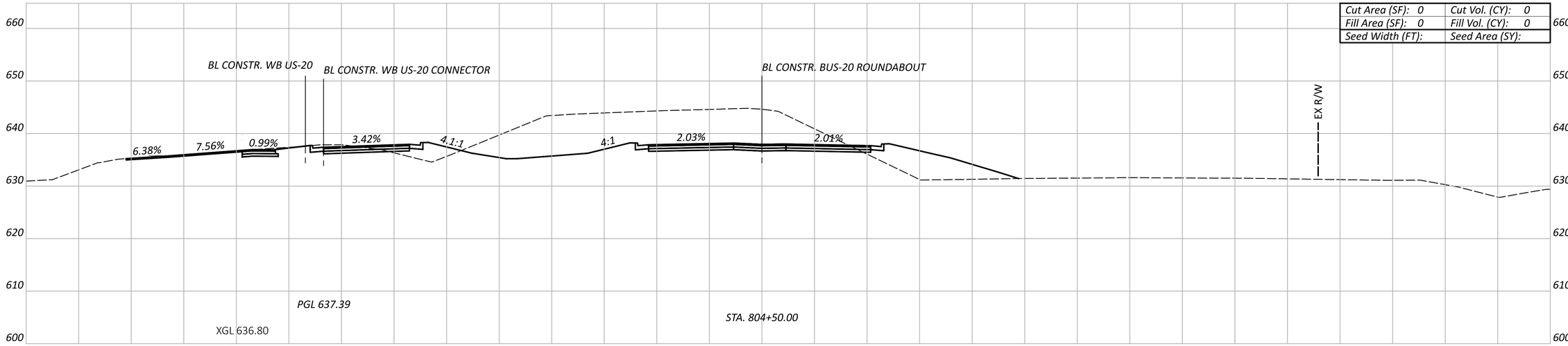
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

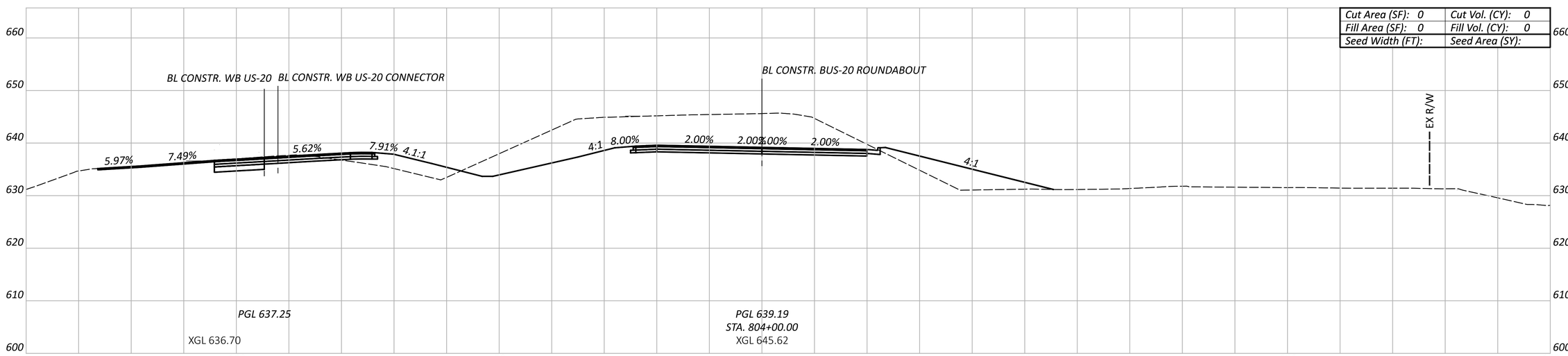
DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.64 | TOTAL 169





CTY-RTE-SECTION

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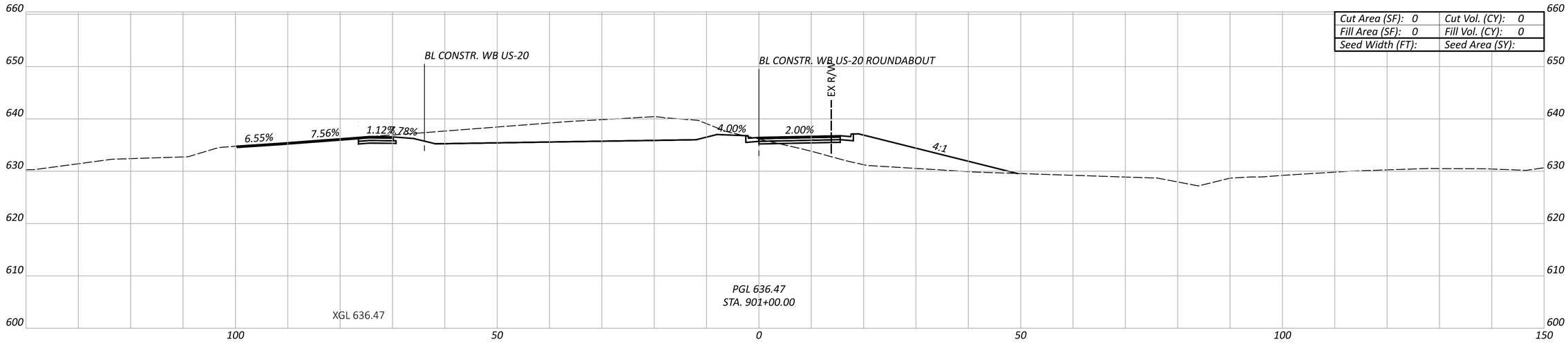
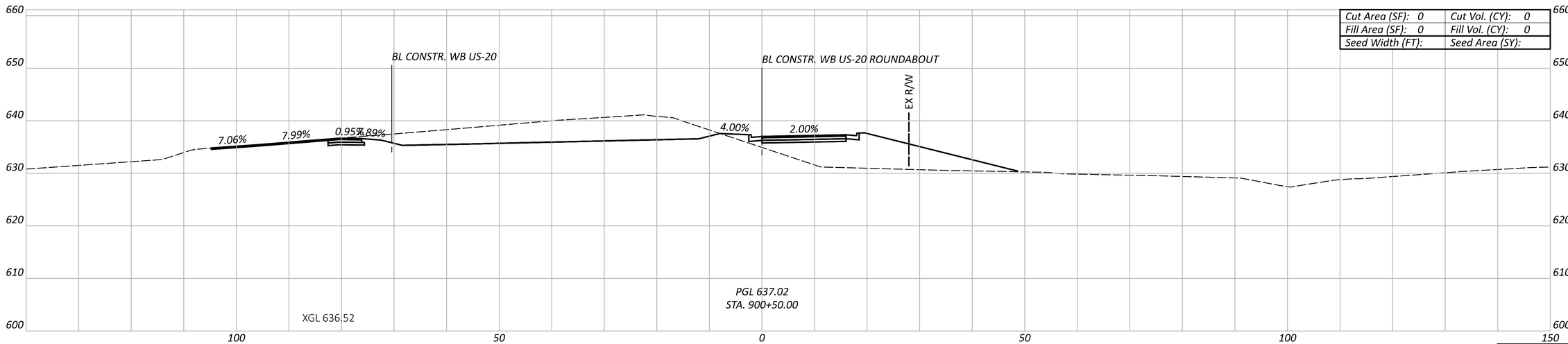
CROSS SECTIONS - RAB WEST
STA. 804+00 TO STA. 804+50

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER: TEH
REVIEWER: SJP 07/26/24
PROJECT ID: 112222
SHEET: P.65 TOTAL: 169





CROSS SECTIONS - RAB EAST
STA. 900+50 TO STA. 901+00

CTY-RTE-SECTION

MODEL: RAB East - 900+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:18:50 PM USER: PIA81677
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Sheet Totals		
Seeding	Cut	Fill

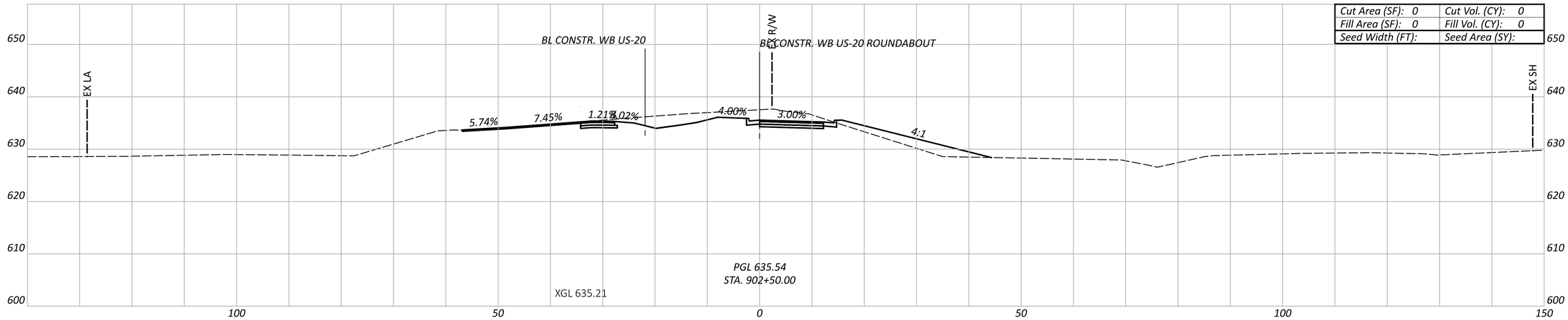
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

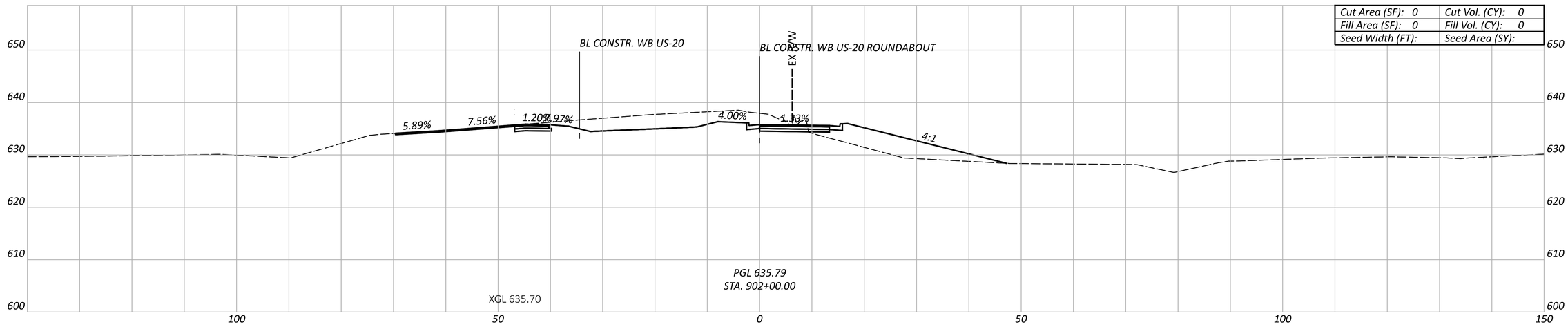
DESIGNER
TEH

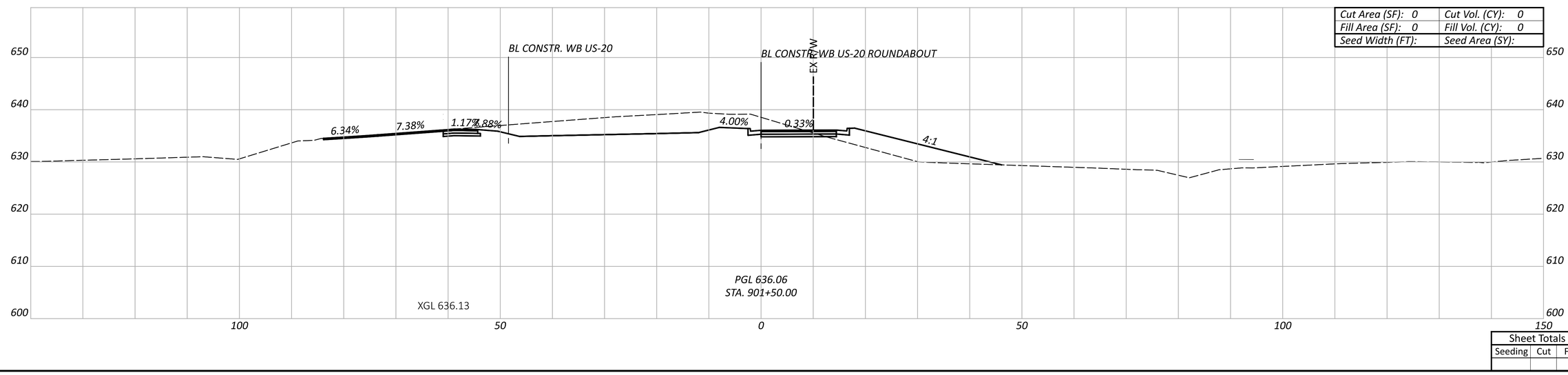
REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.66 | TOTAL 169







CROSS SECTIONS - RAB EAST
STA. 901+50 TO STA. 902+50

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY

MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER: TEH

REVIEWER: SJP 07/26/24

PROJECT ID: 112222

SHEET: P.67 | TOTAL: 169

CTY-RTE-SECTION

MODEL: RAB East - 901+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:18:55 PM USER: PIA81677
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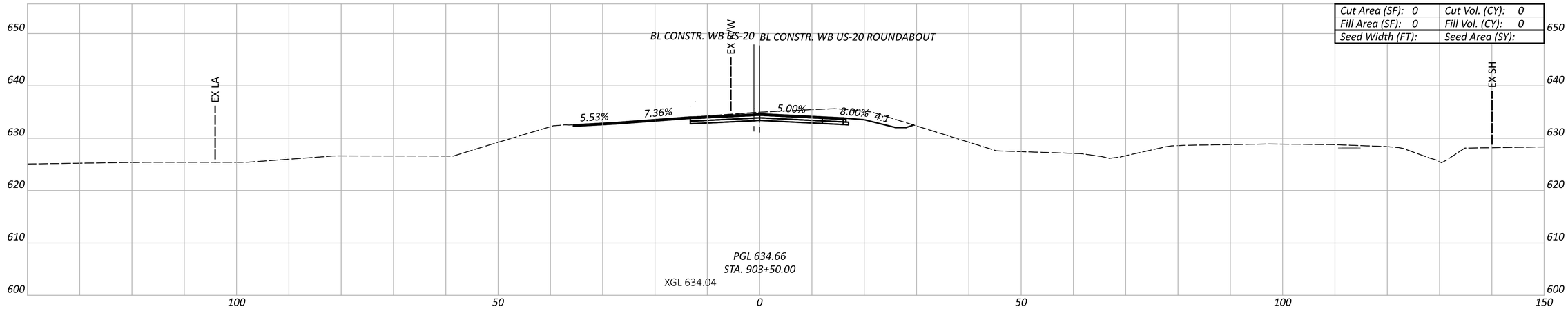

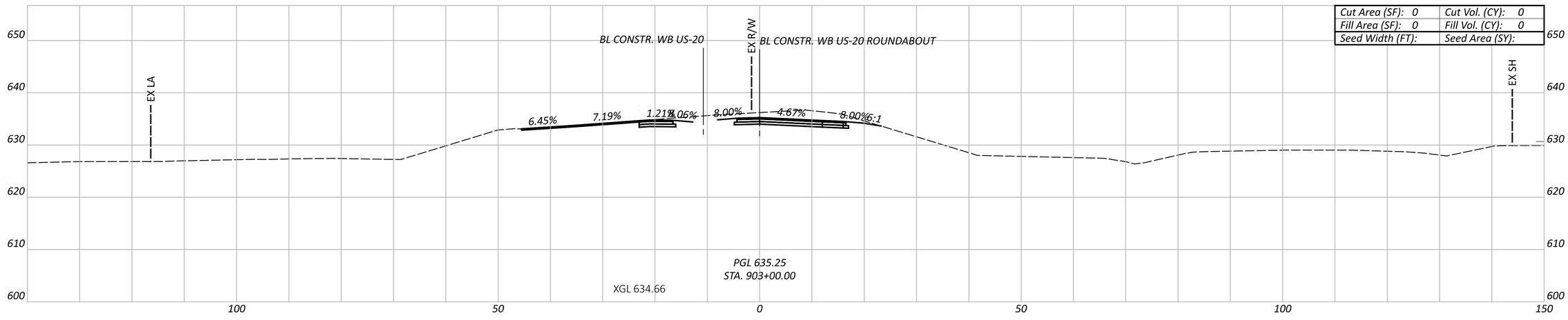

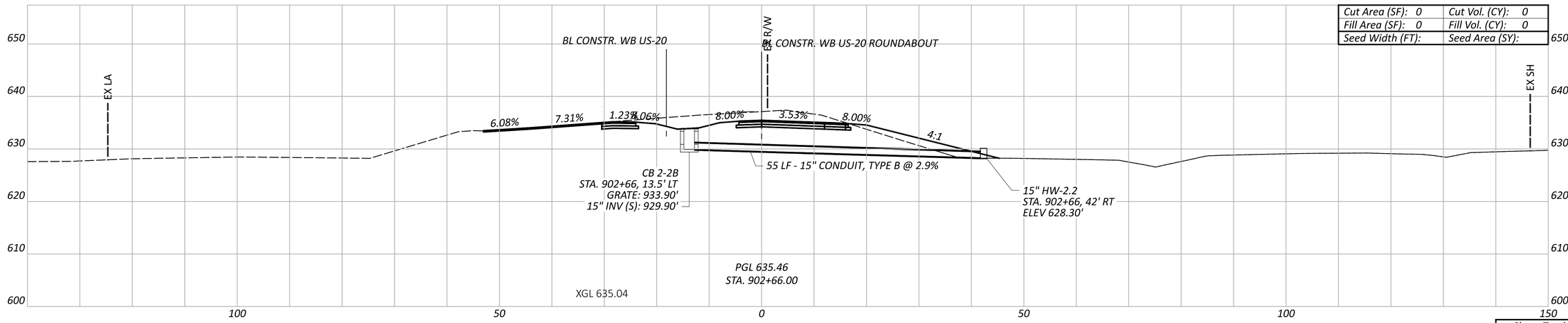

CROSS SECTIONS - RAB EAST
STA. 902+66 TO STA. 903+50

CTY-RTE-SECTION

MODEL: RAB East - 902+66.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:19:01 PM USER: PIA81677
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Sheet Totals		
Seeding	Cut	Fill

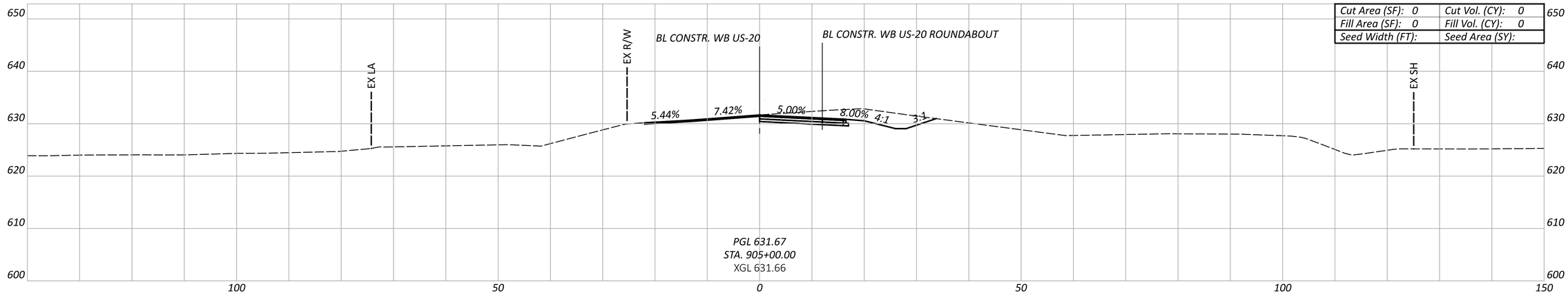
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.68 TOTAL 169



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Fill Area (SF): 0	Fill Vol. (CY): 0
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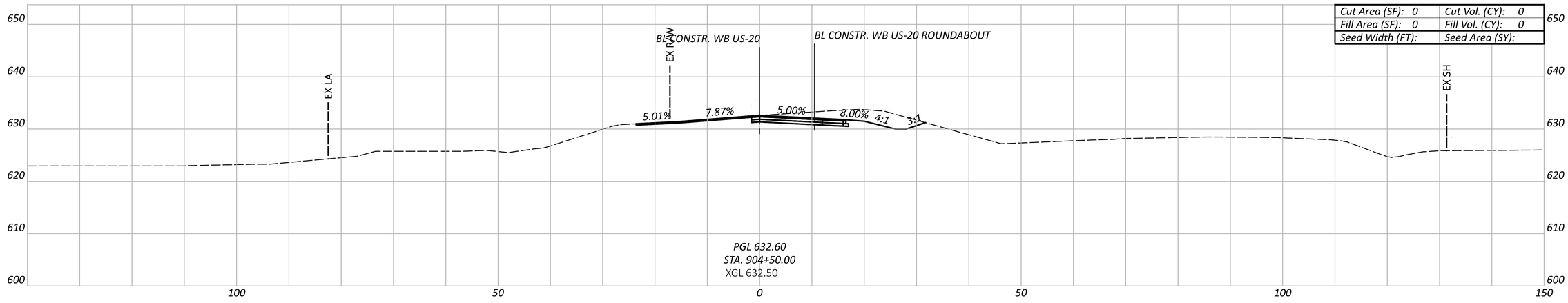

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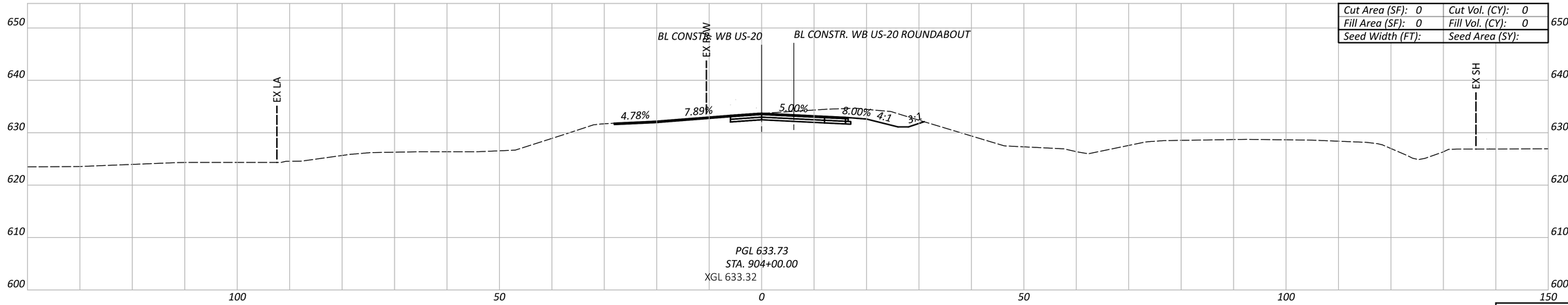

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Seed Width (FT):	Seed Area (SY):

CROSS SECTIONS - RAB EAST
STA. 904+00 TO STA. 905+00

CTY-RTE-SECTION

MODEL: RAB East - 904+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:19:07 PM USER: PIA81677
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Sheet Totals		
Seeding	Cut	Fill

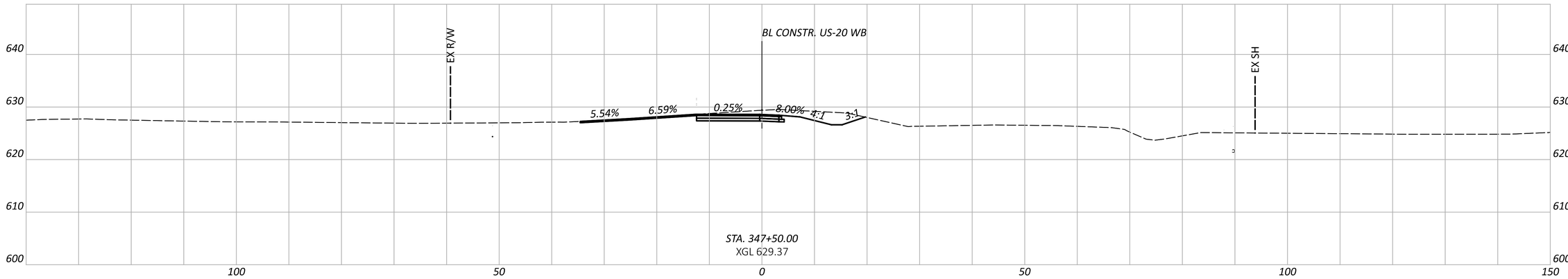
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER TEH

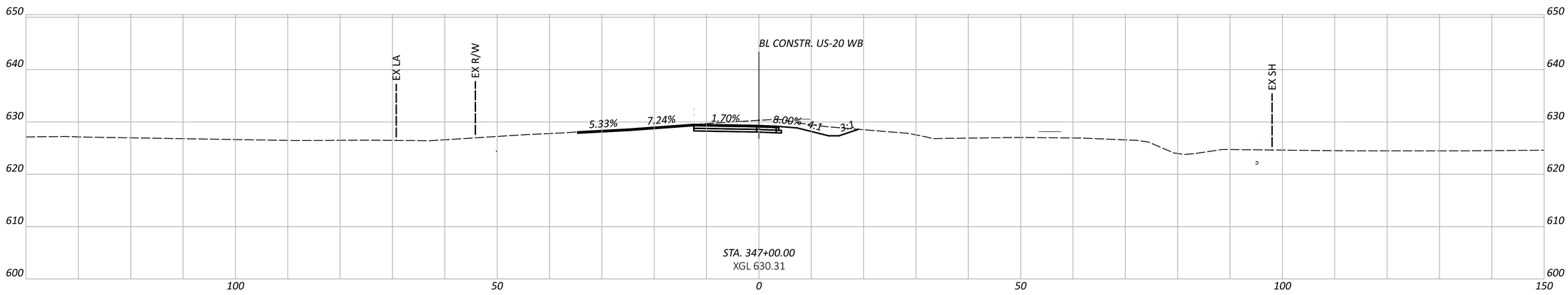
REVIEWER SJP 07/26/24

PROJECT ID 112222

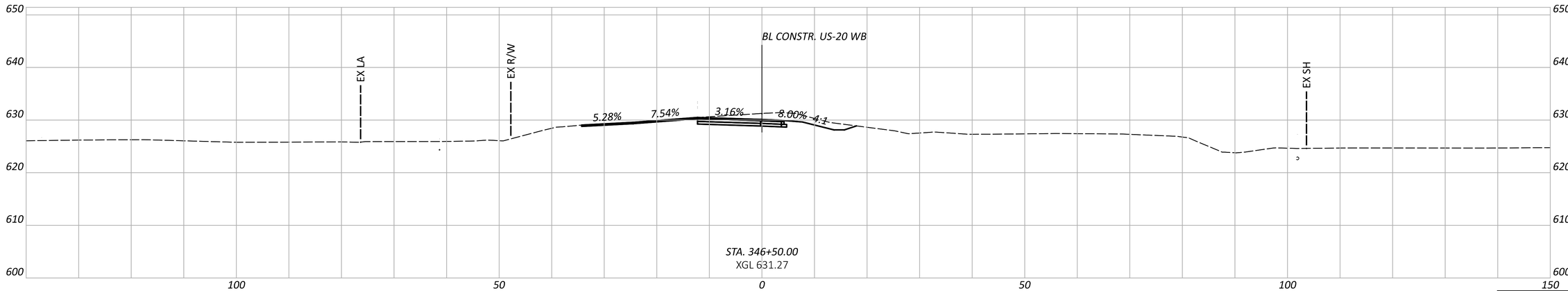
SHEET P.69 | TOTAL 169



STA. 347+50.00
XGL 629.37



STA. 347+00.00
XGL 630.31



STA. 346+50.00
XGL 631.27

CROSS SECTIONS - WB US-20
STA. 346+50 TO STA. 347+50

CTY-RTE-SECTION

MODEL: US-20 WB - 346+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:19:24 PM USER: PIA81677
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Sheet Totals		
Seeding	Cut	Fill

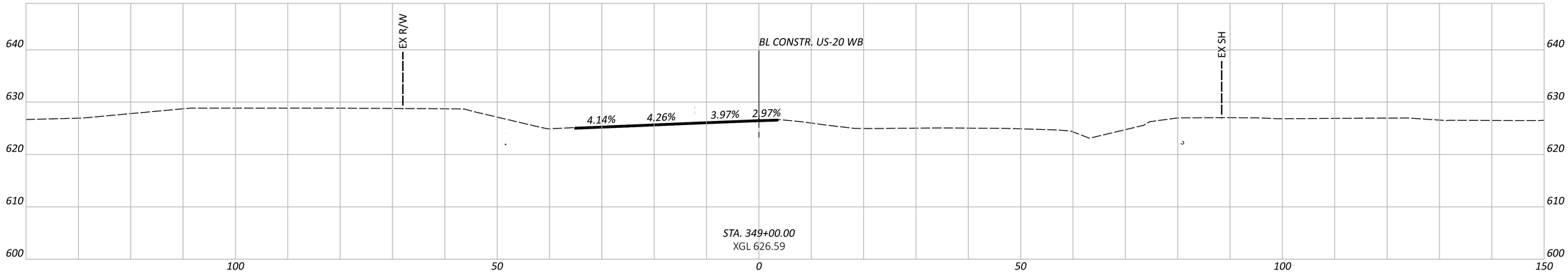
DESIGN AGENCY
MM
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
TEH

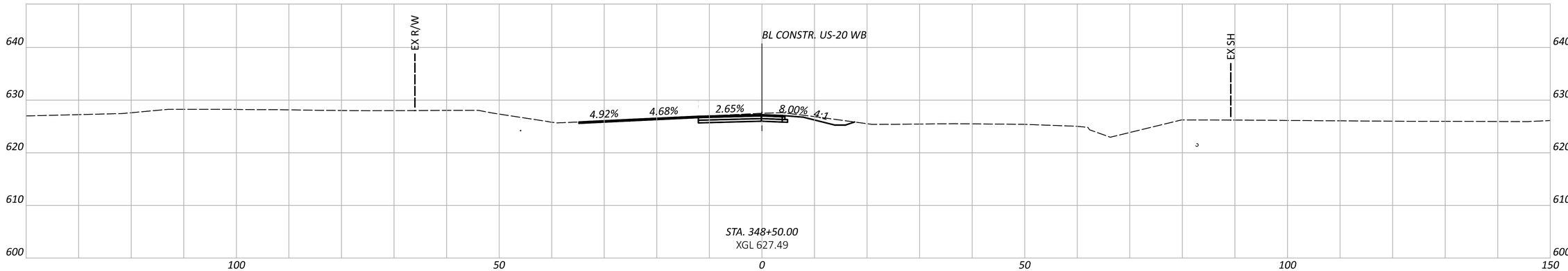
REVIEWER
SJP 07/26/24

PROJECT ID
112222

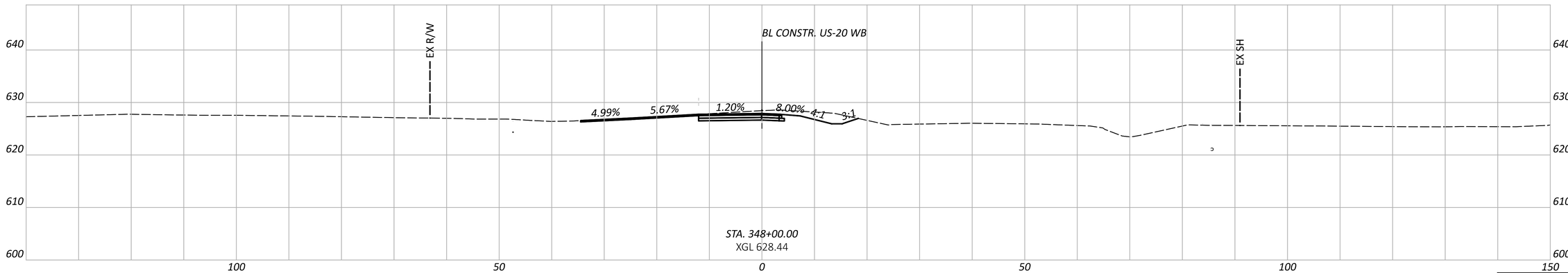
SHEET P.70 | TOTAL 169



STA. 349+00.00
XGL 626.59



STA. 348+50.00
XGL 627.49



STA. 348+00.00
XGL 628.44

CROSS SECTIONS - WB US-20
STA. 348+00 TO STA. 349+00

CTY-RTE-SECTION

MODEL: US-20 WB - 348+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:19:31 PM USER: PIA81677
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Sheet Totals		
Seeding	Cut	Fill

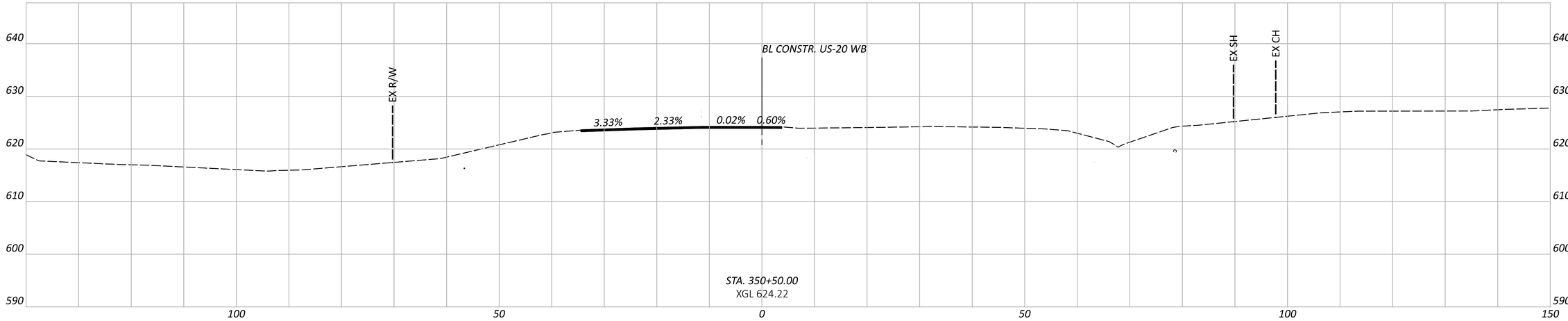
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

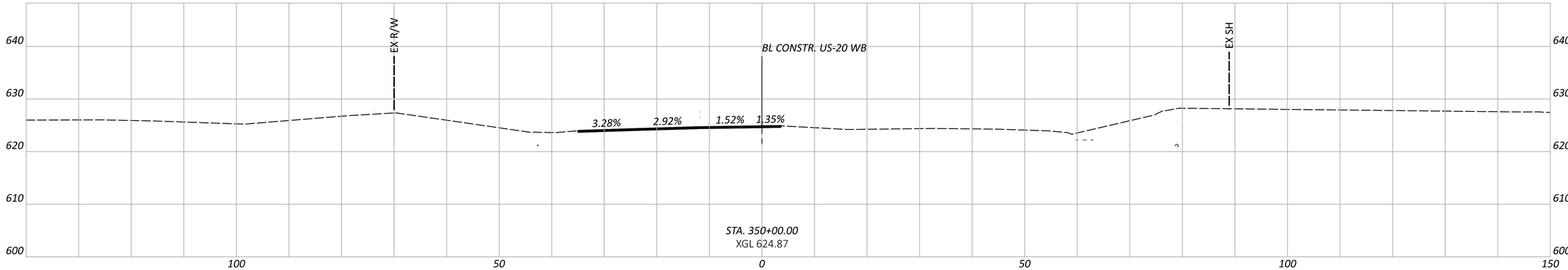
DESIGNER TEH

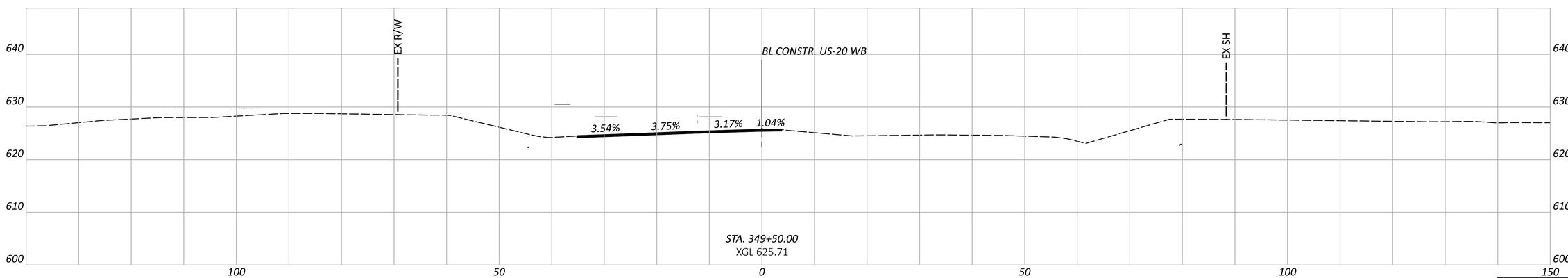
REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.71 TOTAL 169







CROSS SECTIONS - WB US-20
STA. 349+50 TO STA. 350+50

CTY-RTE-SECTION

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Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.72 TOTAL 169

CTY-RTE-SECTION

MODEL: US-20 WB - 351+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:19:42 PM USER: PIA81677
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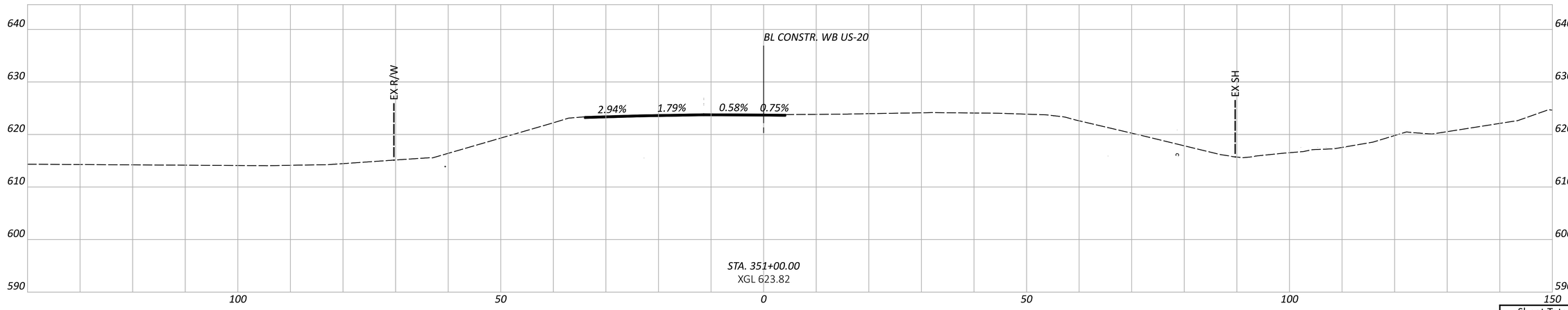


CROSS SECTIONS - WB US-20
STA. 351+00

Sheet Totals		
Seeding	Cut	Fill

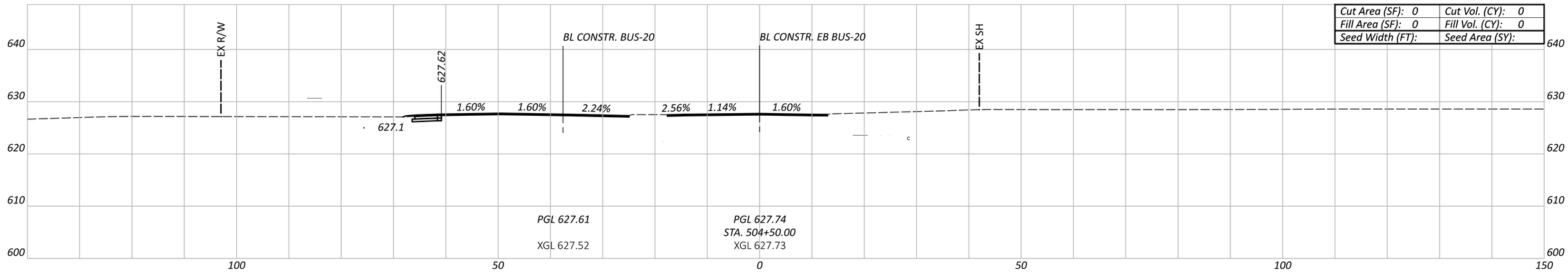
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

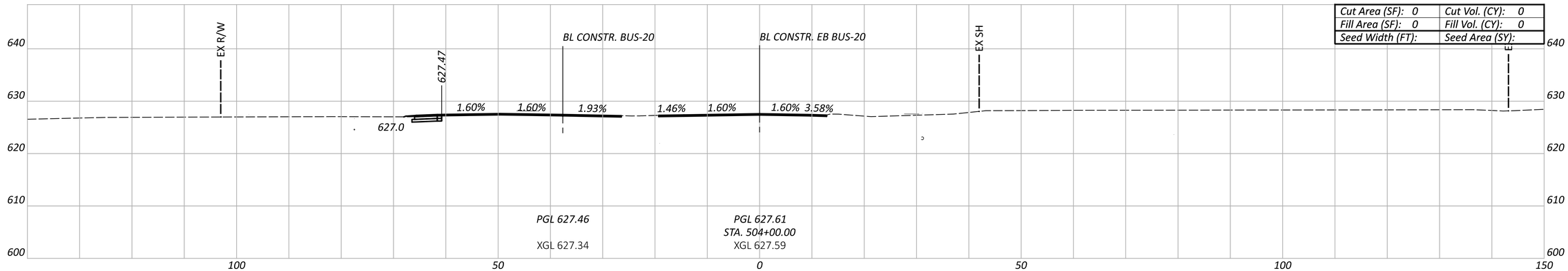
DESIGNER TEH

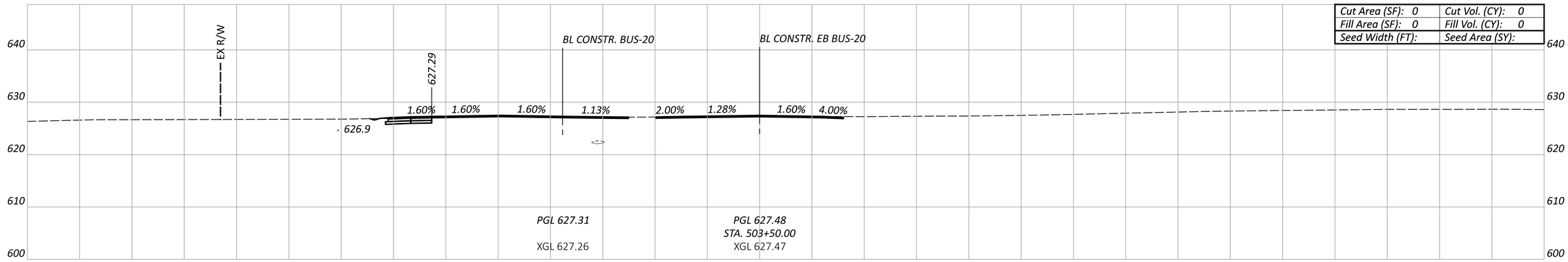
REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.73 TOTAL 169







CROSS SECTIONS - EB BUS-20
STA. 503+50 TO STA. 504+50

CTY-RTE-SECTION

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Sheet Totals		
Seeding	Cut	Fill

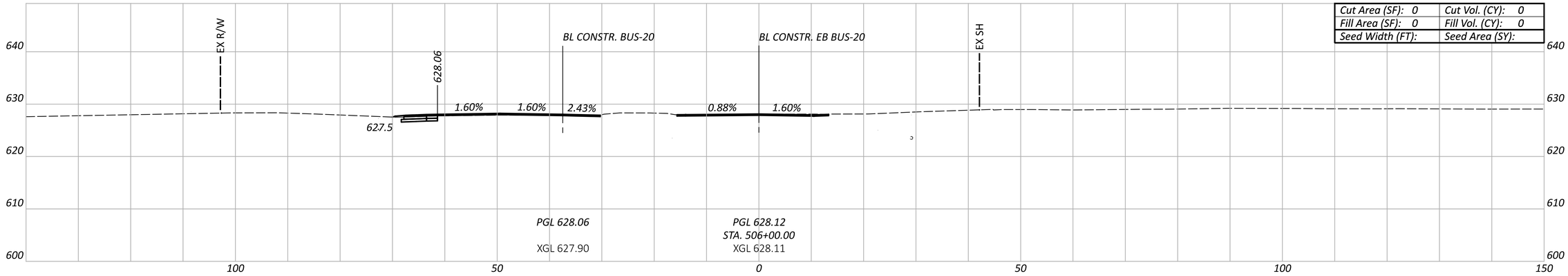
DESIGN AGENCY

DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.74 TOTAL 169



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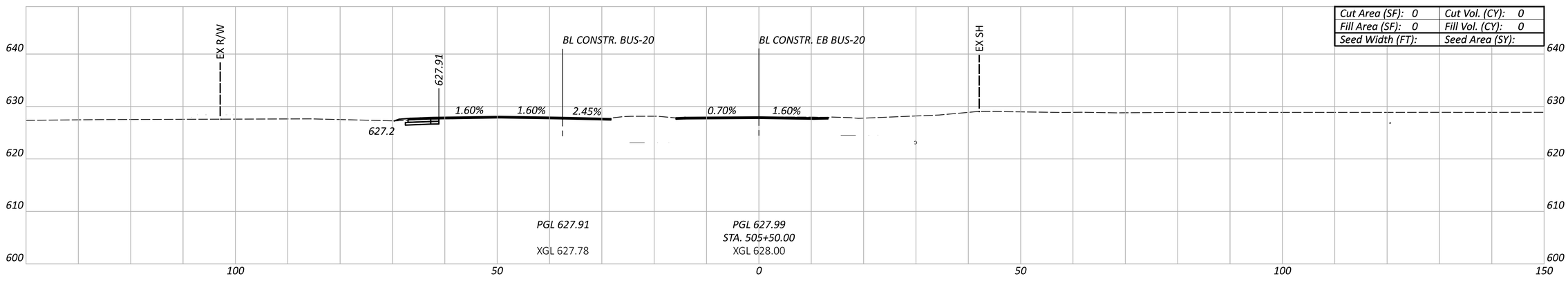
Seed Width (FT):	Seed Area (SY):



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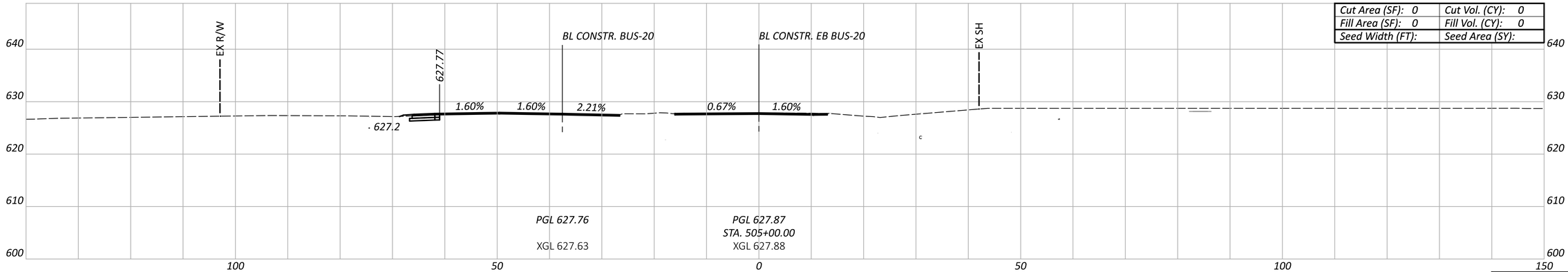

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CROSS SECTIONS - EB BUS-20
STA. 505+00 TO STA. 506+00

CTY-RTE-SECTION

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Sheet Totals		
Seeding	Cut	Fill

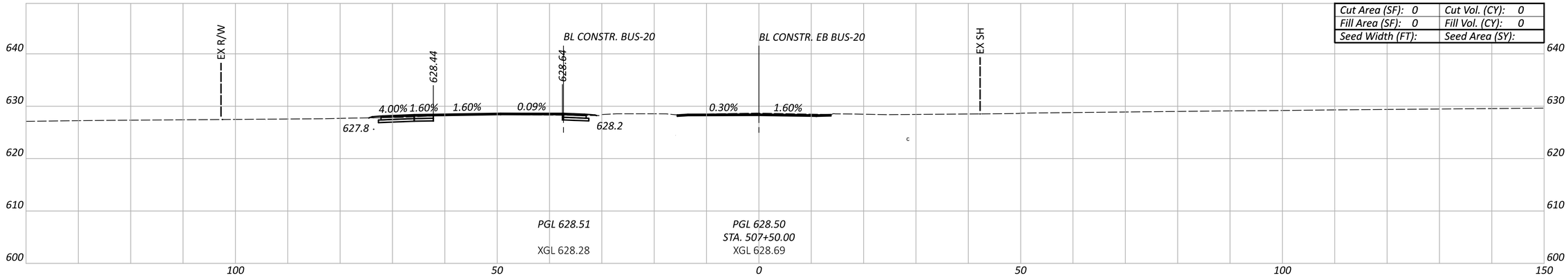
DESIGN AGENCY

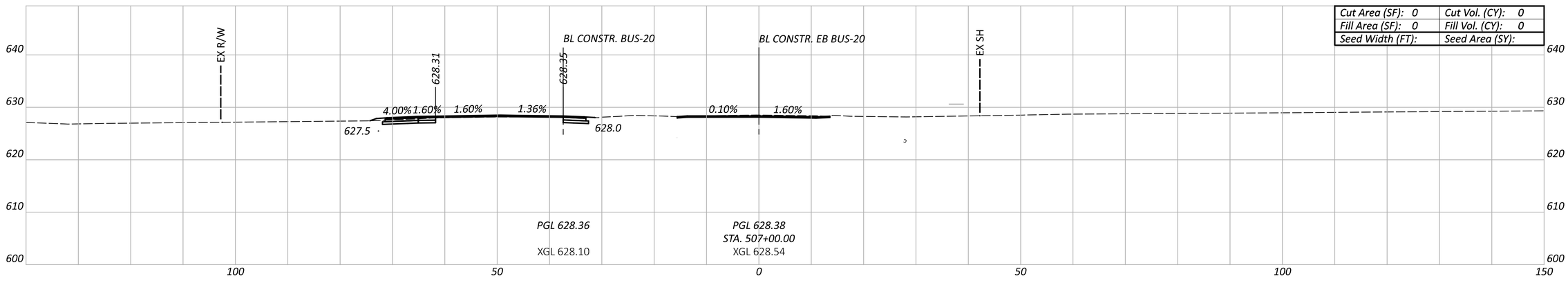
DESIGNER TEH

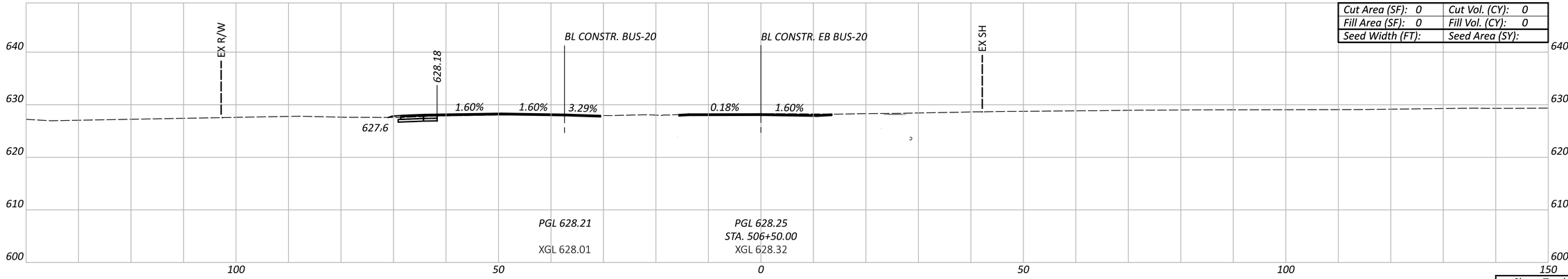
REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.75 TOTAL 169







CROSS SECTIONS - EB BUS-20
STA. 506+50 TO STA. 507+50

CTY-RTE-SECTION

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Sheet Totals		
Seeding	Cut	Fill

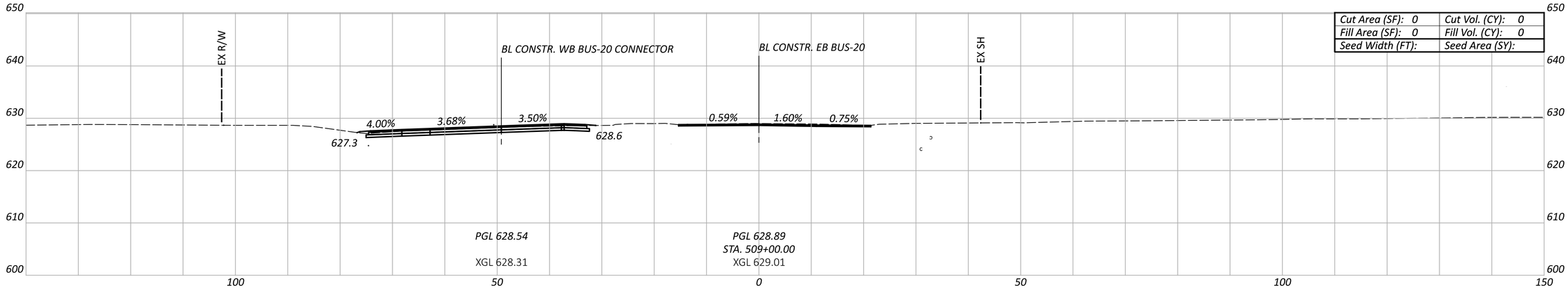
DESIGN AGENCY

DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.76 TOTAL 169



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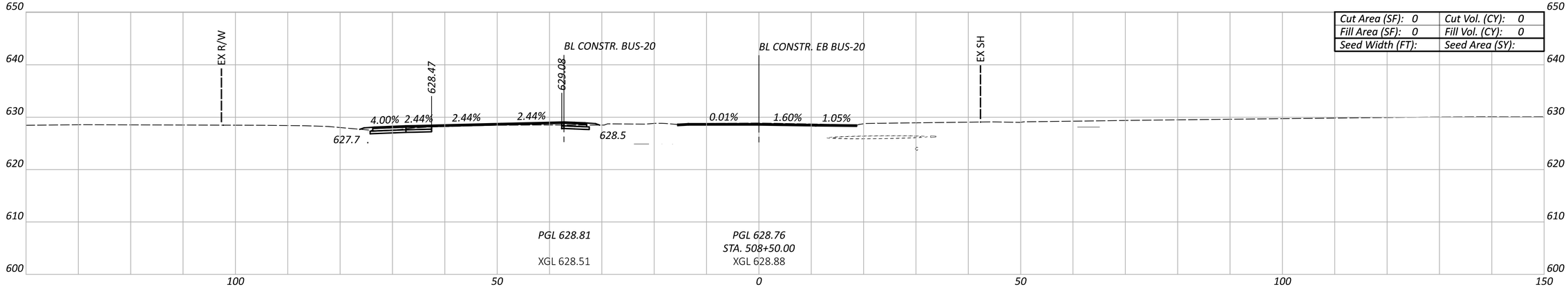

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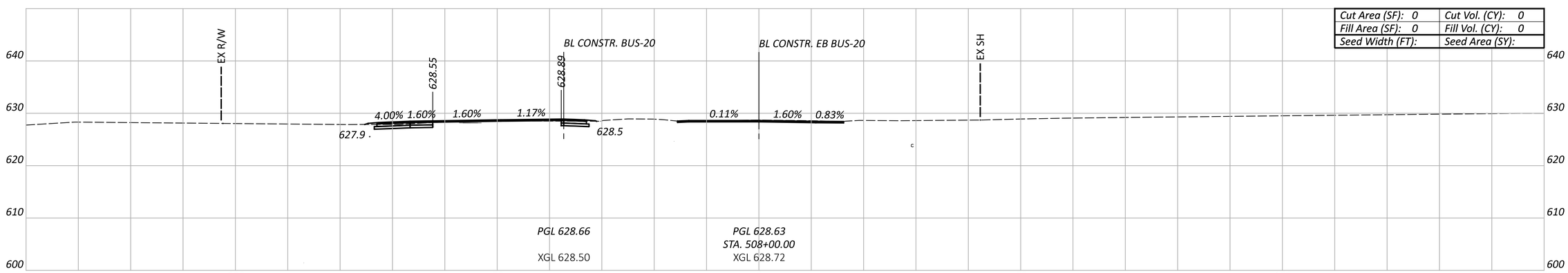

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CTY-RTE-SECTION

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CROSS SECTIONS - EB BUS-20
STA. 508+00 TO STA. 509+00

Sheet Totals		
Seeding	Cut	Fill

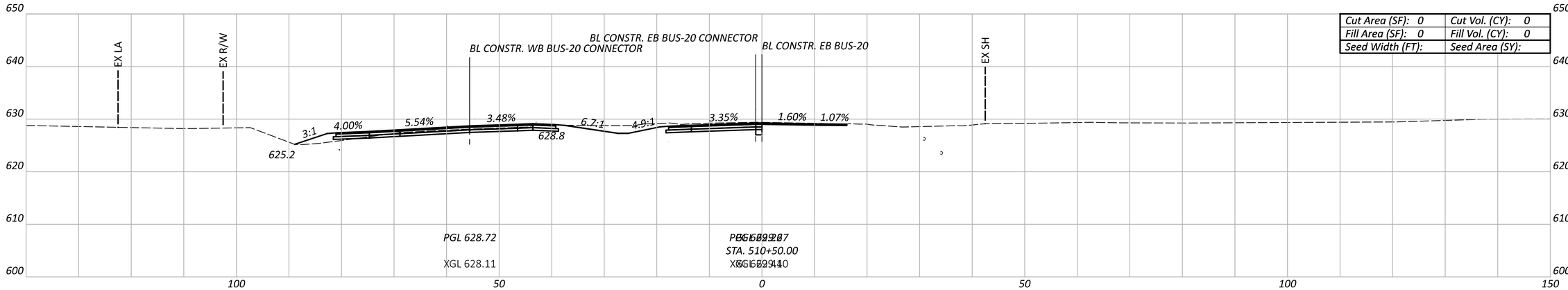
DESIGN AGENCY

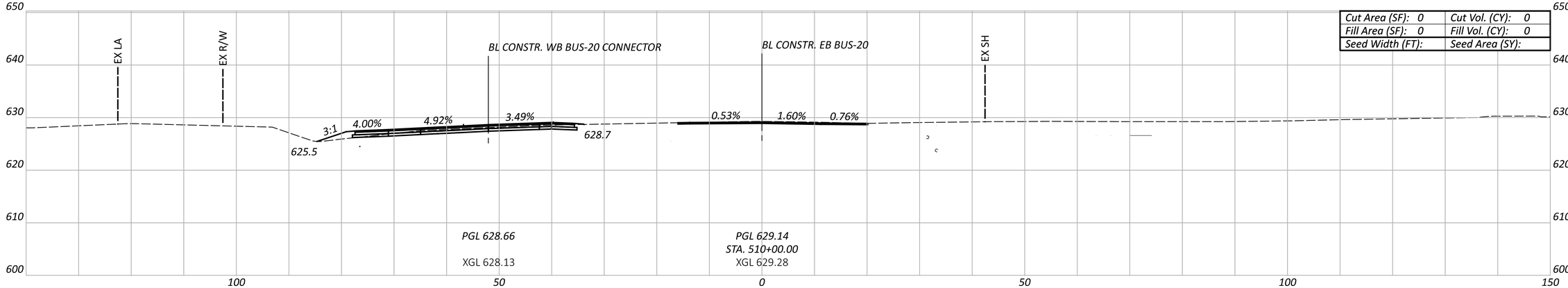
DESIGNER TEH

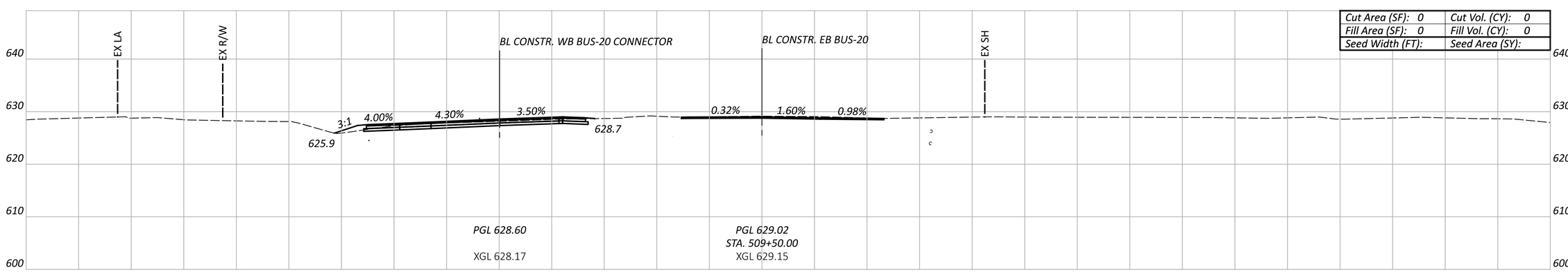
REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.77 TOTAL 169







CROSS SECTIONS - EB BUS-20
STA. 509+50 TO STA. 510+50

CTY-RTE-SECTION

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Sheet Totals		
Seeding	Cut	Fill

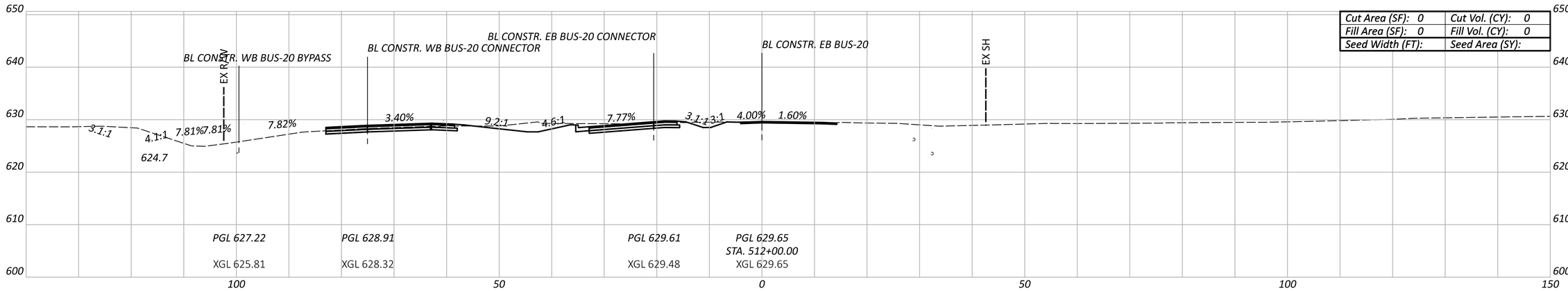
DESIGN AGENCY

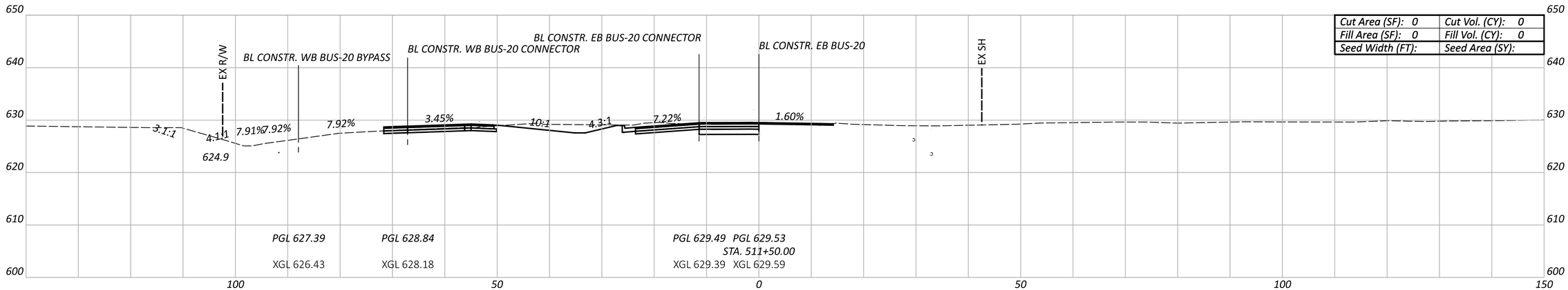
DESIGNER TEH

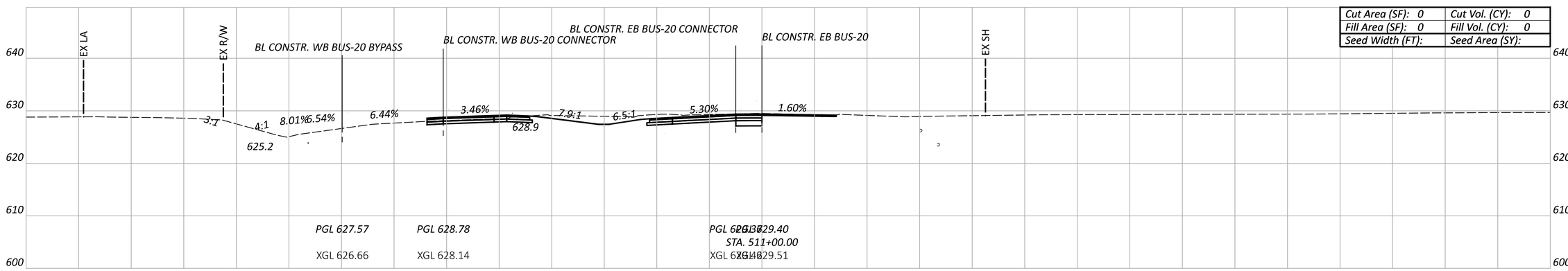
REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.78 | TOTAL 169







CROSS SECTIONS - EB BUS-20
STA. 511+00 TO STA. 512+00

CTY-RTE-SECTION

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Sheet Totals		
Seeding	Cut	Fill

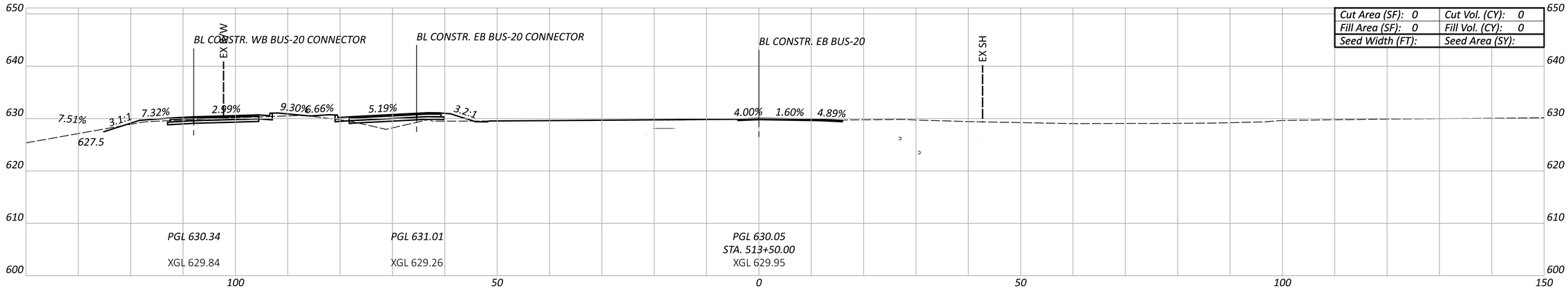
DESIGN AGENCY

DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.79 TOTAL 169



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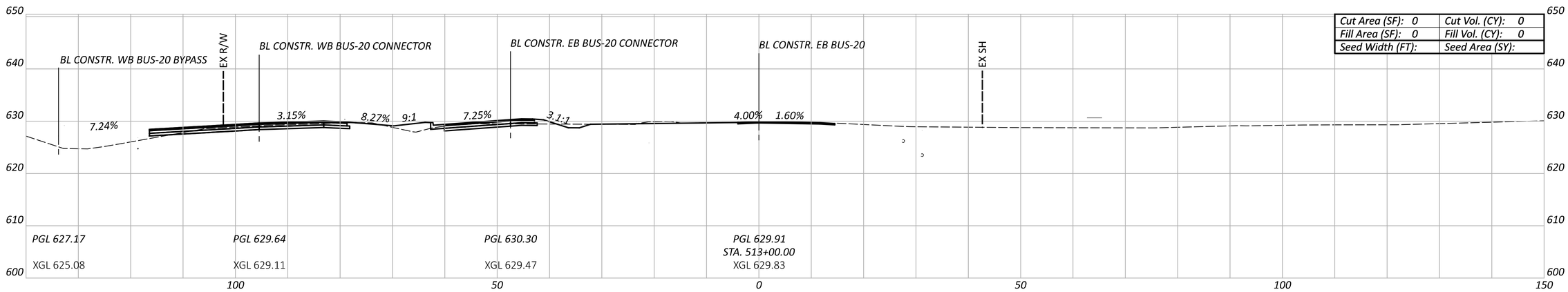

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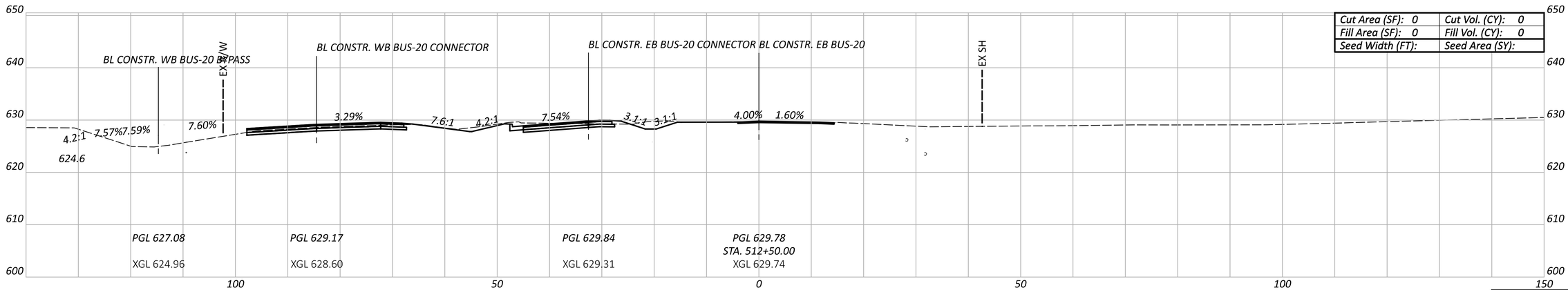

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CROSS SECTIONS - EB BUS-20
STA. 512+50 TO STA. 513+50

CTY-RTE-SECTION

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DESIGN AGENCY

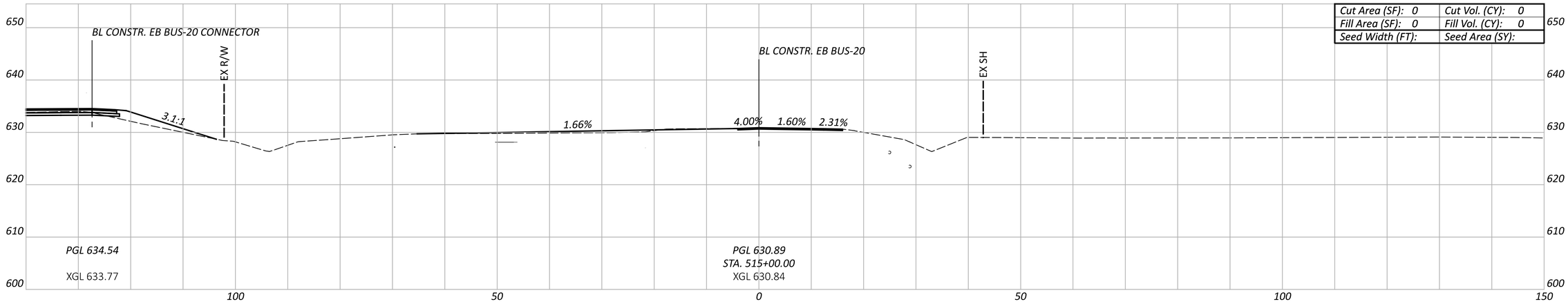
DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

Sheet Totals		
Seeding	Cut	Fill

SHEET P.80 TOTAL 169



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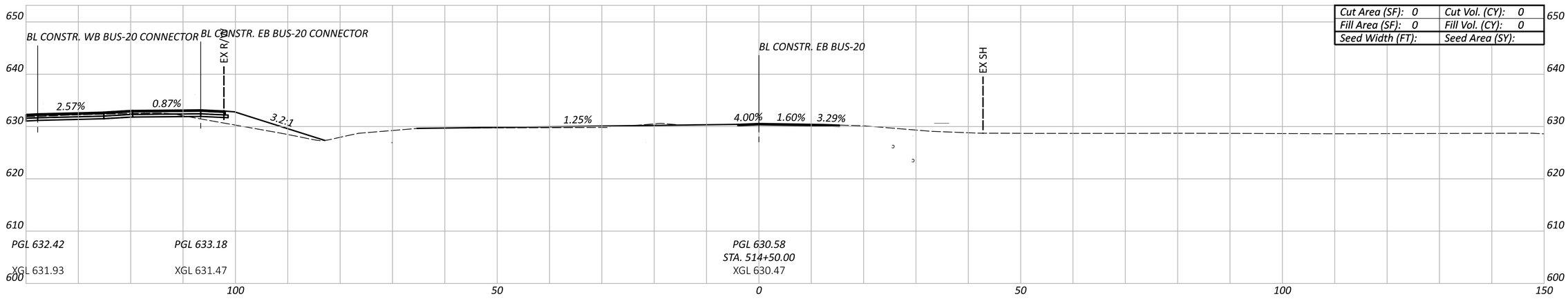

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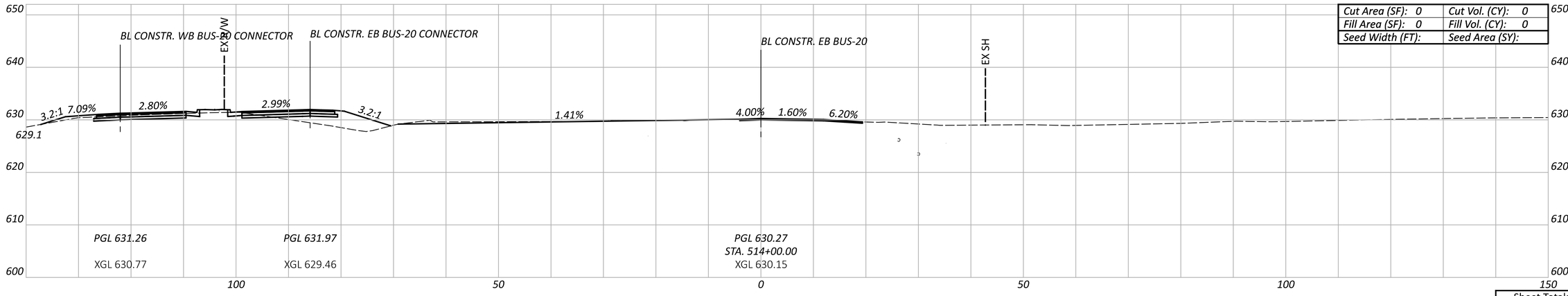

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CROSS SECTIONS - EB BUS-20
STA. 514+00 TO STA. 515+00

CTY-RTE-SECTION

MODEL: E State St - 514+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:20:50 PM USER: PIA81677
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DESIGN AGENCY

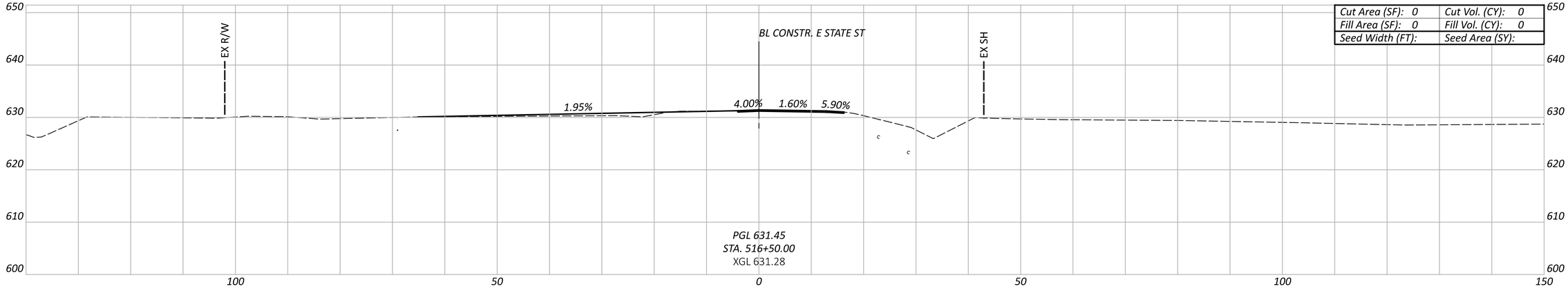
DESIGNER
TEH

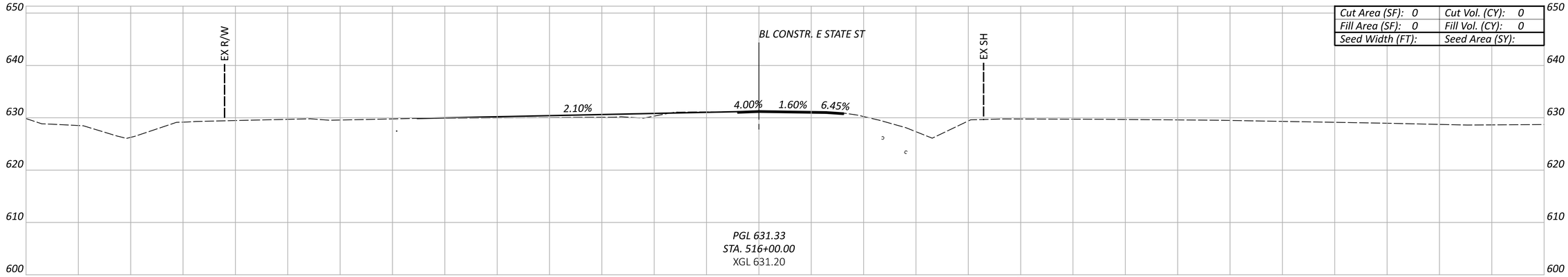
REVIEWER
SJP 07/26/24

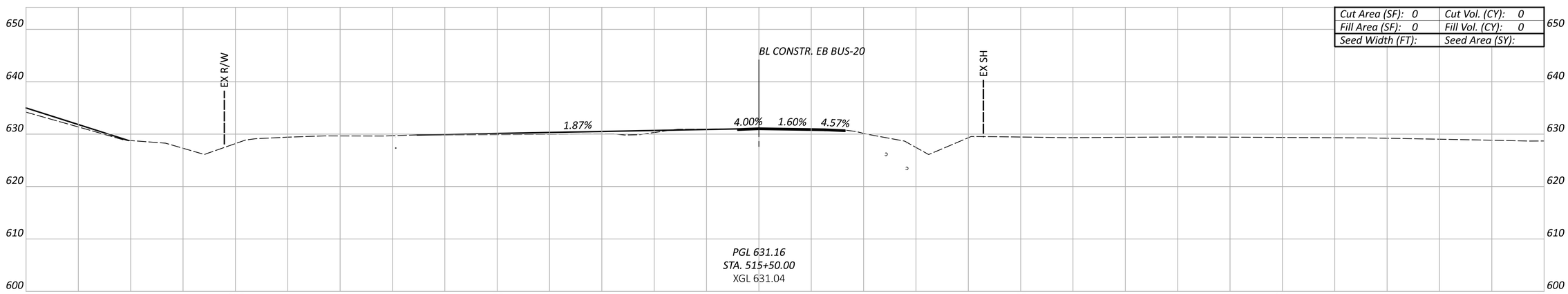
PROJECT ID
112222

Sheet Totals		
Seeding	Cut	Fill

SHEET P.81 TOTAL 169







CROSS SECTIONS - EB BUS-20
STA. 515+50 TO STA. 516+50

CTY-RTE-SECTION

MODEL: E State St - 515+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:20:58 PM USER: PIA81677
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Sheet Totals		
Seeding	Cut	Fill

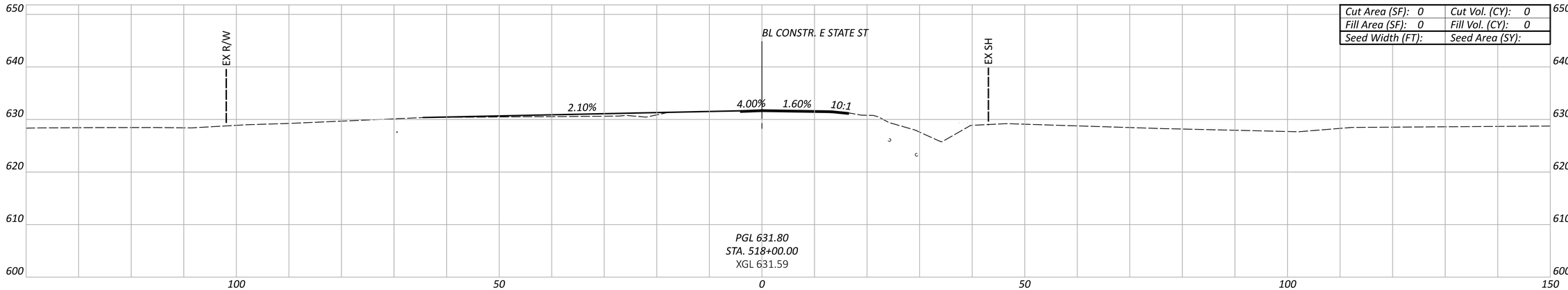
DESIGN AGENCY

DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.82 TOTAL 169



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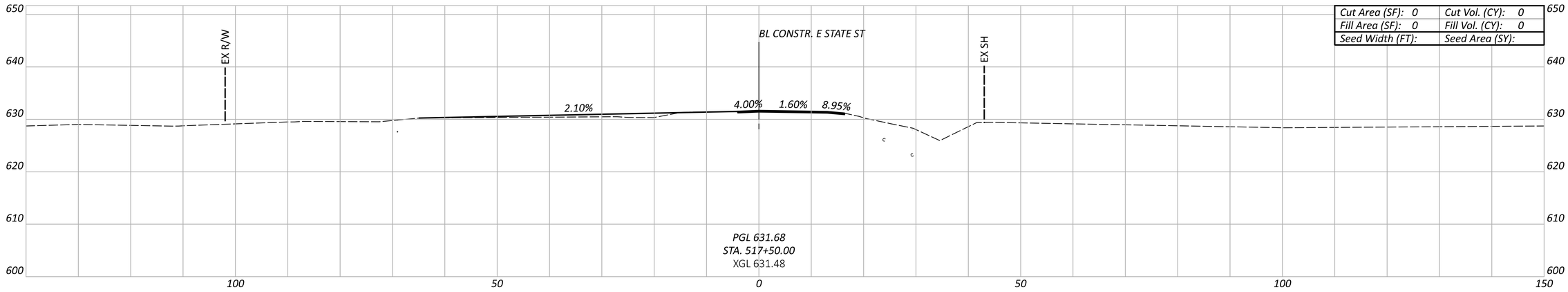

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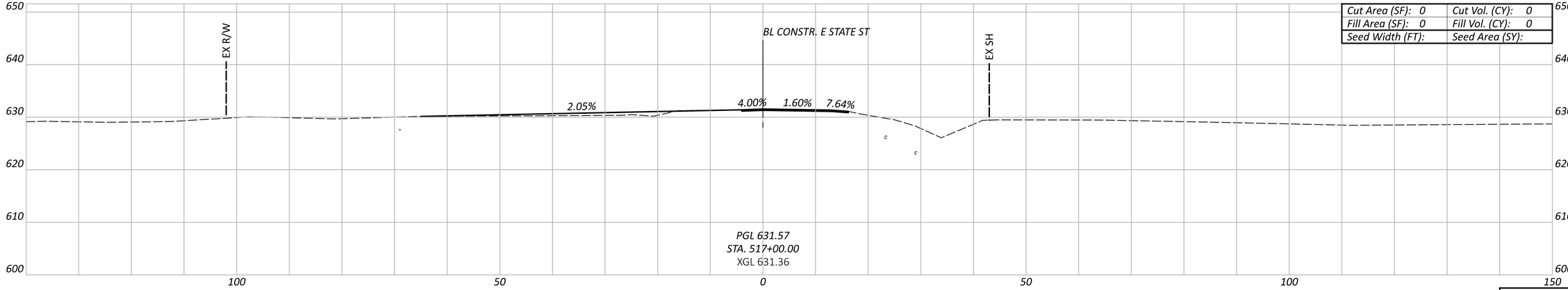

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CROSS SECTIONS - EB BUS-20
STA. 517+00 TO STA. 518+00

CTY-RTE-SECTION

MODEL: E State St - 517+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:21:04 PM USER: PIA81677
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Sheet Totals		
Seeding	Cut	Fill

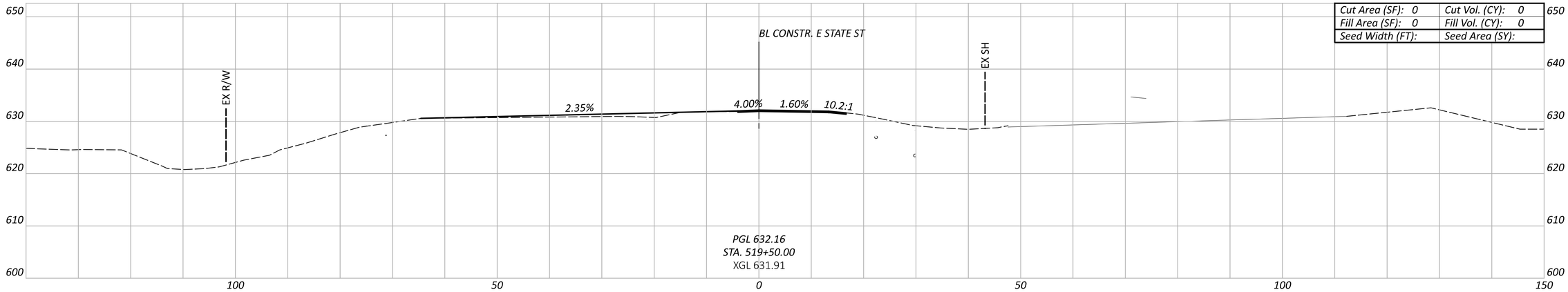
DESIGN AGENCY

DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.83 TOTAL 169



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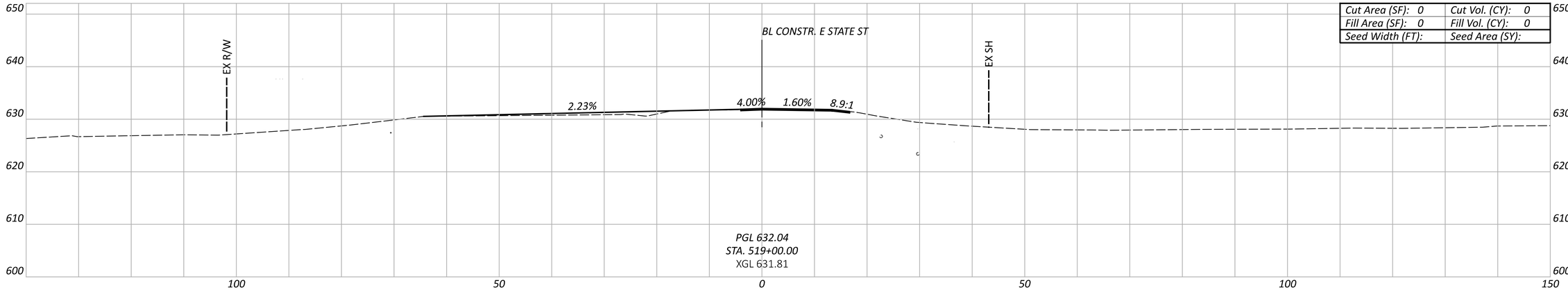
Seed Width (FT):	Seed Area (SY):



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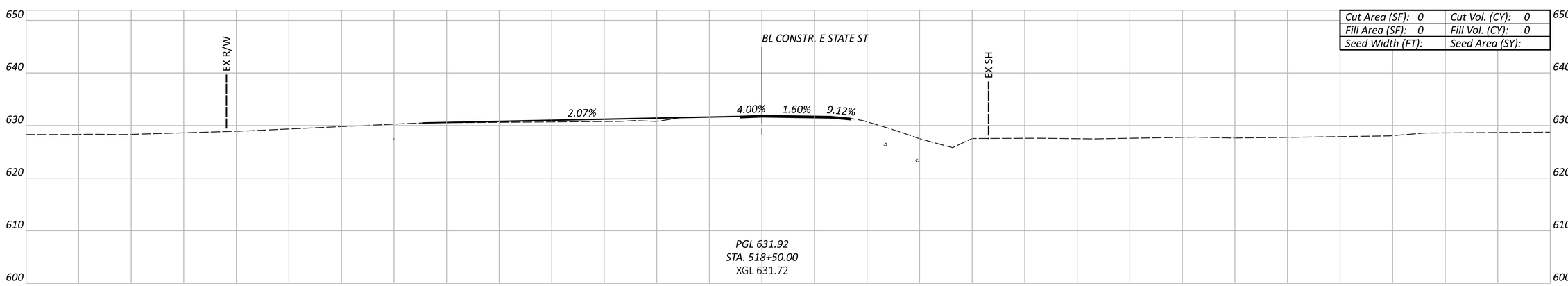
Seed Width (FT):	Seed Area (SY):



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Seed Width (FT):	Seed Area (SY):

Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS - EB BUS-20
STA. 518+50 TO STA. 519+50

CTY-RTE-SECTION

MODEL: E State St - 518+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:21:11 PM USER: PIA81677
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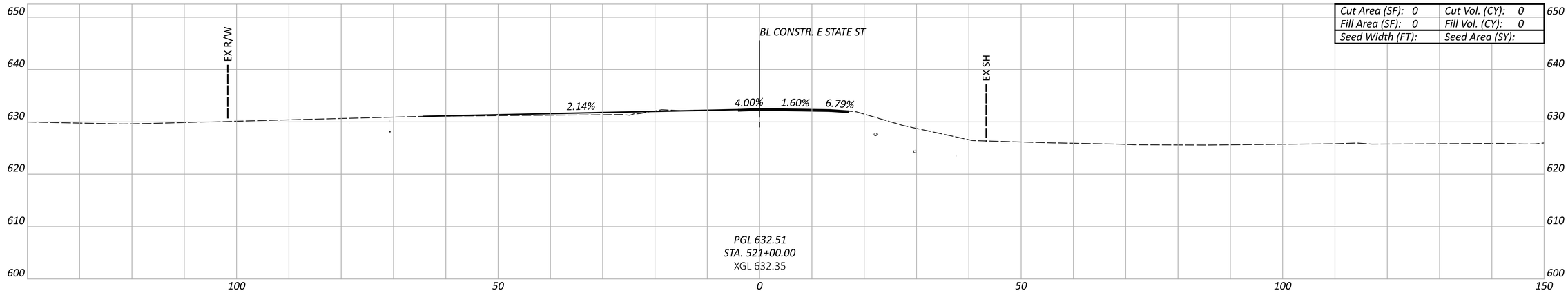
DESIGN AGENCY

DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.84 TOTAL 169



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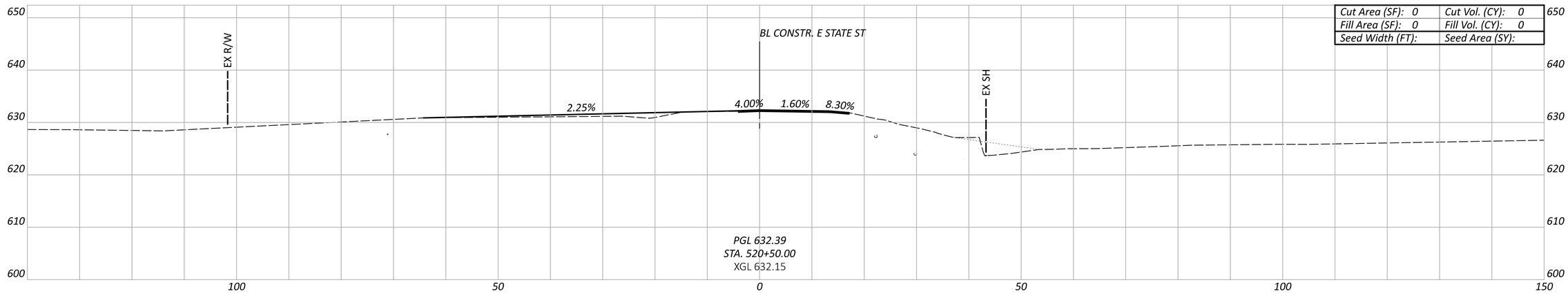

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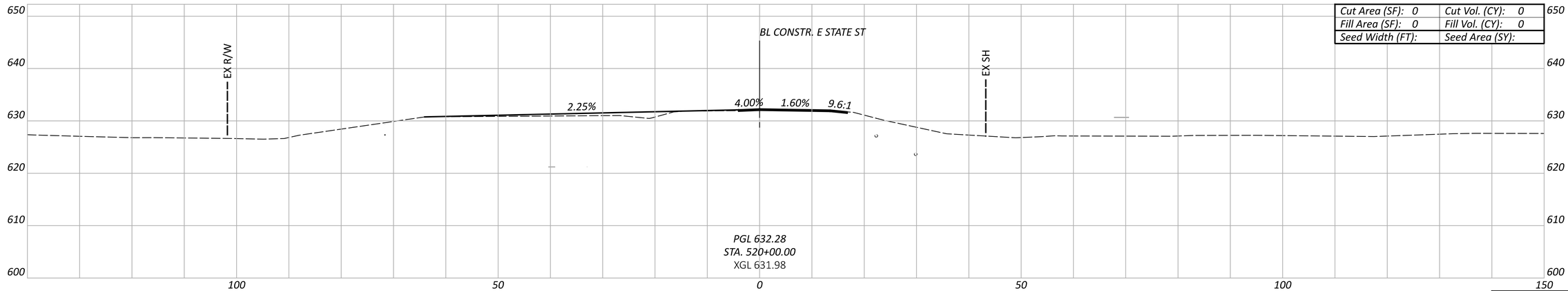

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CROSS SECTIONS - EB BUS-20
STA. 520+00 TO STA. 521+00

CTY-RTE-SECTION

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Sheet Totals		
Seeding	Cut	Fill

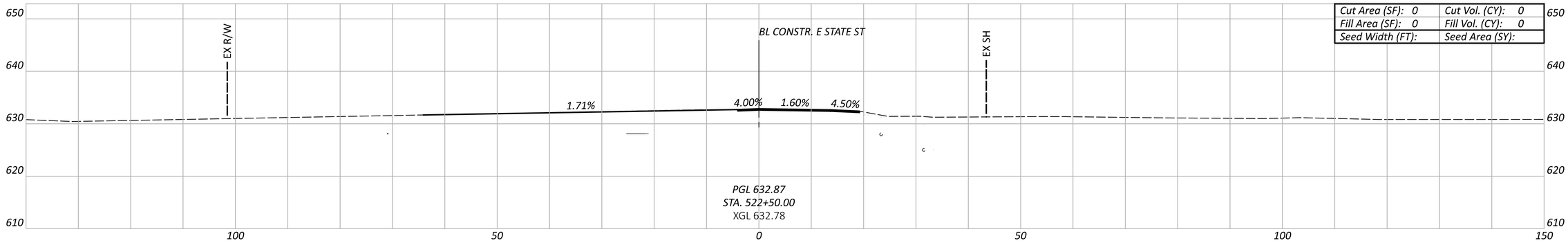
DESIGN AGENCY

DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.85 | TOTAL 169



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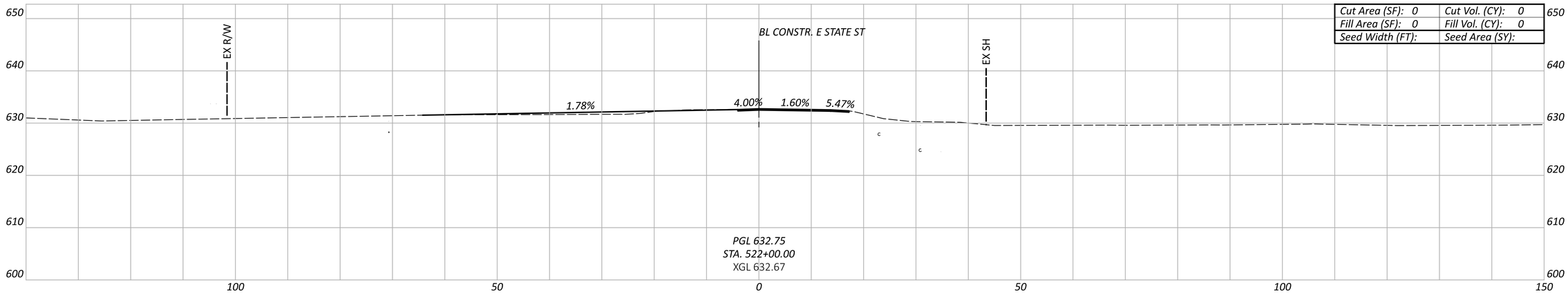

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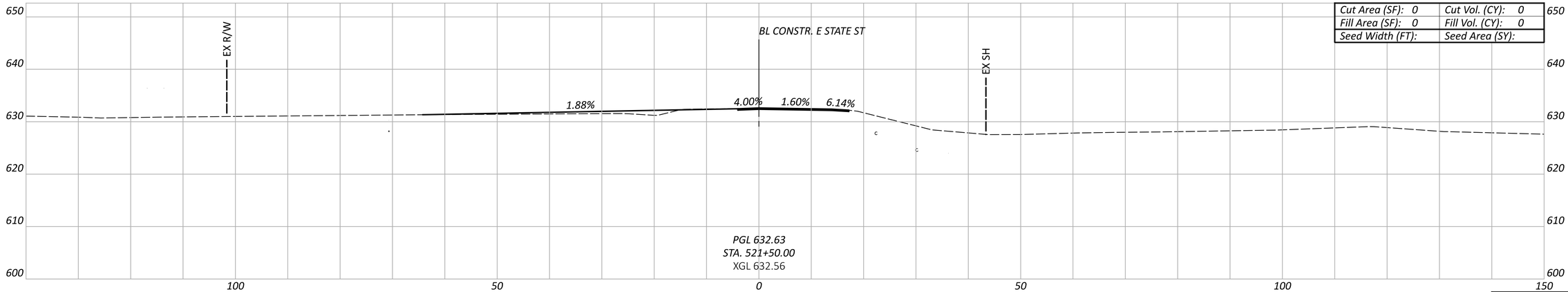

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Seed Width (FT):	Seed Area (SY):

CTY-RTE-SECTION

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CROSS SECTIONS - EB BUS-20
STA. 521+50 TO STA. 522+50

Sheet Totals		
Seeding	Cut	Fill

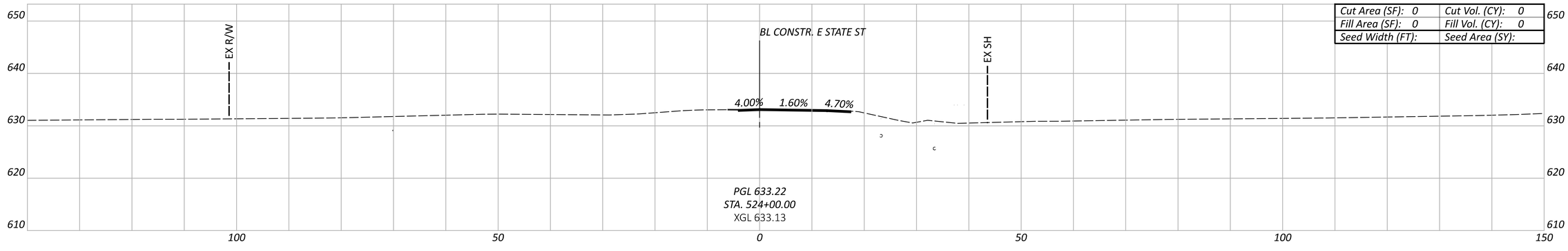
DESIGN AGENCY

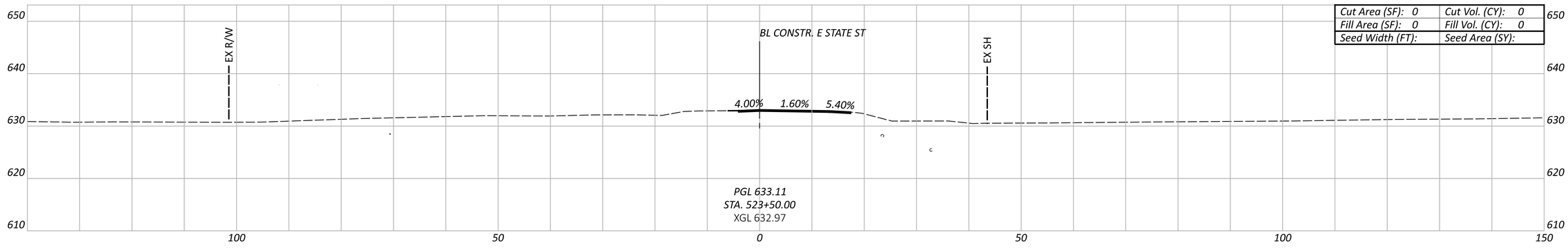
DESIGNER TEH

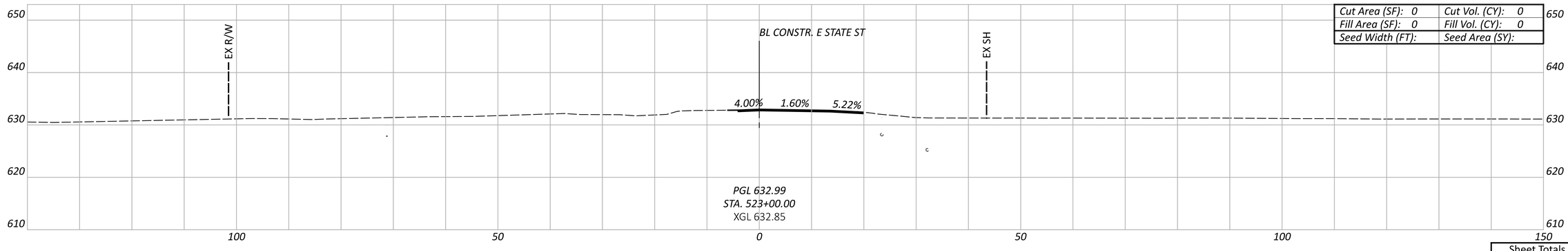
REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.86 | TOTAL 169







CROSS SECTIONS - EB BUS-20
STA. 523+00 TO STA. 524+00

DESIGN AGENCY

DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

Sheet Totals		
Seeding	Cut	Fill

SHEET P.87 TOTAL 169

CTY-RTE-SECTION

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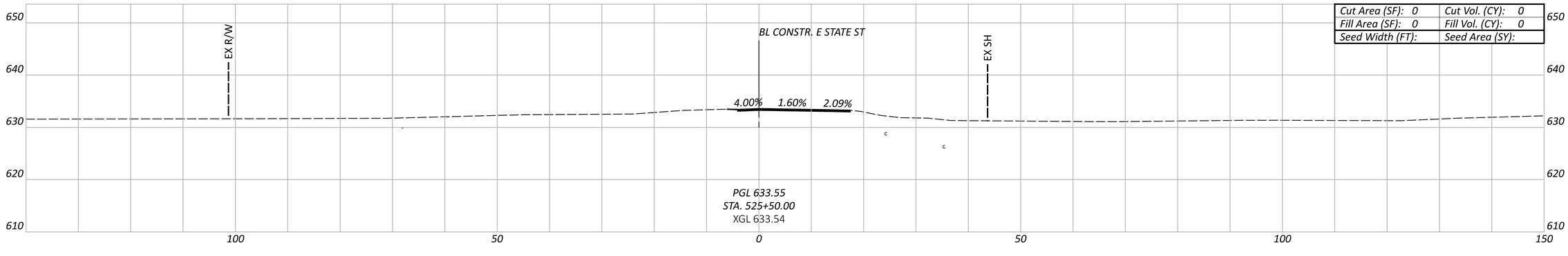

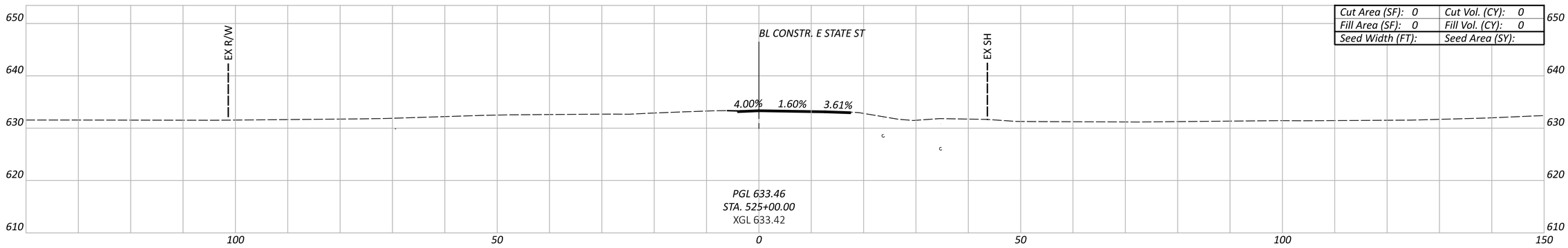

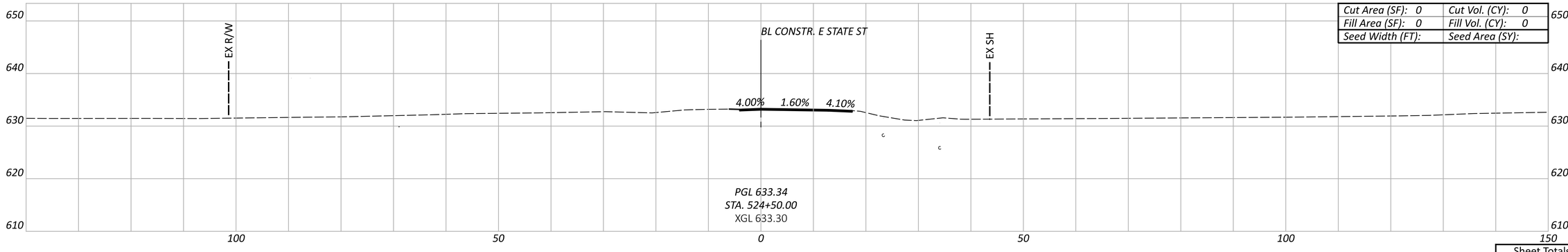

CTY-RTE-SECTION

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CROSS SECTIONS - EB BUS-20
STA. 524+50 TO STA. 525+50

DESIGN AGENCY

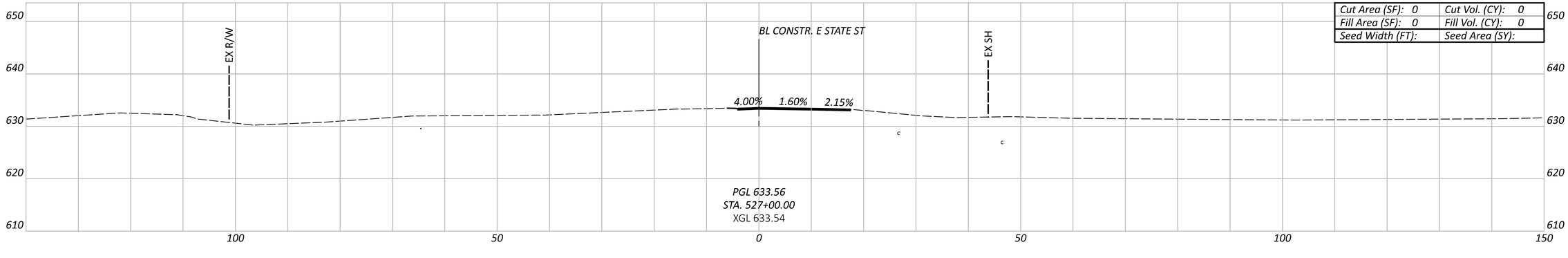
DESIGNER
TEH

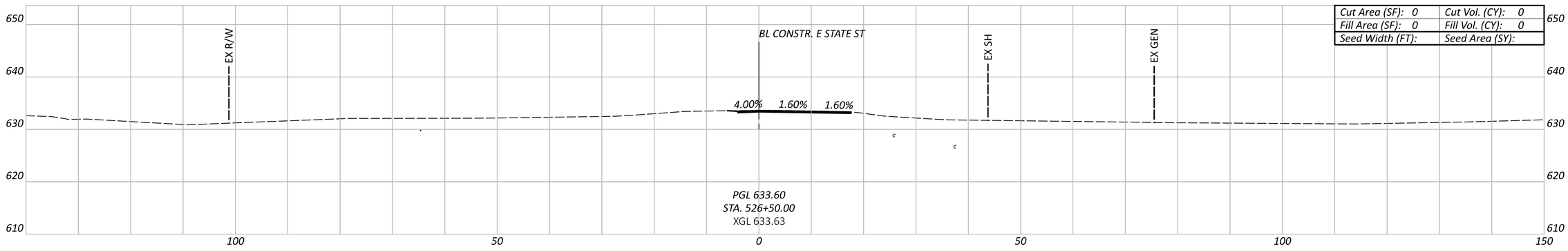
REVIEWER
SJP 07/26/24

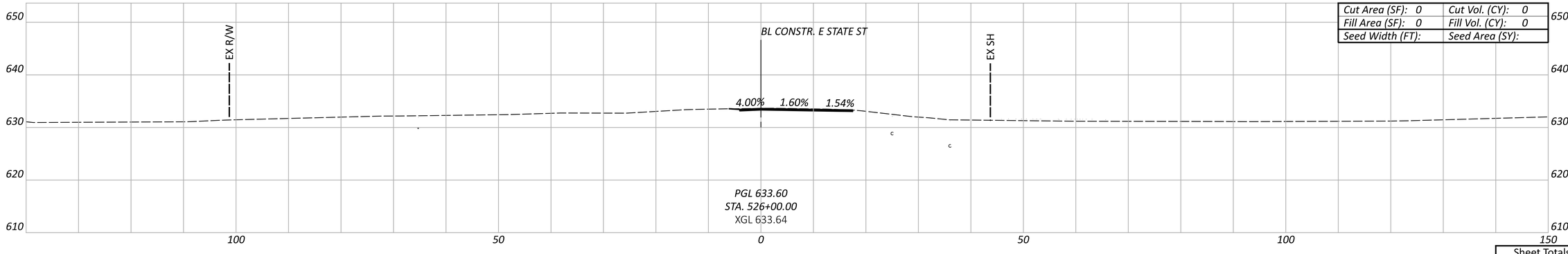
PROJECT ID
112222

Sheet Totals		
Seeding	Cut	Fill

SHEET P.88 TOTAL 169







CTY-RTE-SECTION

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CROSS SECTIONS - EB BUS-20
STA. 526+00 TO STA. 527+00

DESIGN AGENCY

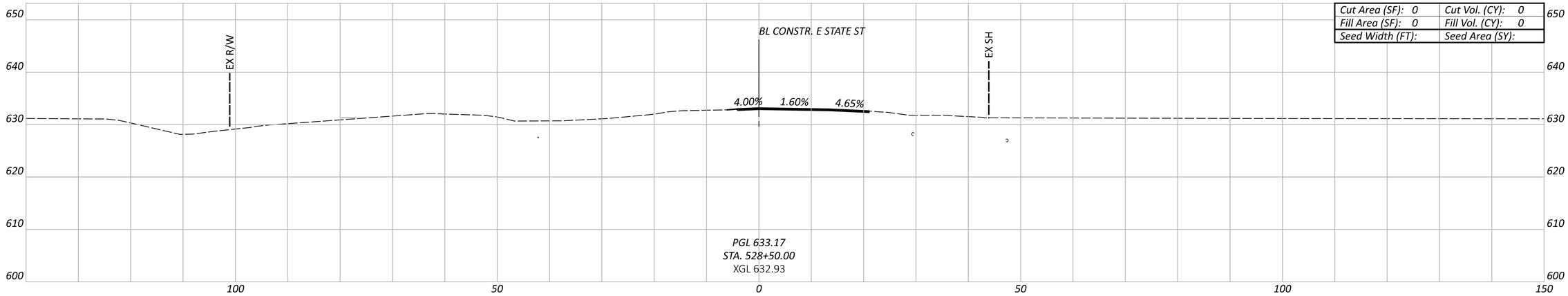
DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

Sheet Totals		
Seeding	Cut	Fill

SHEET P.89 TOTAL 169



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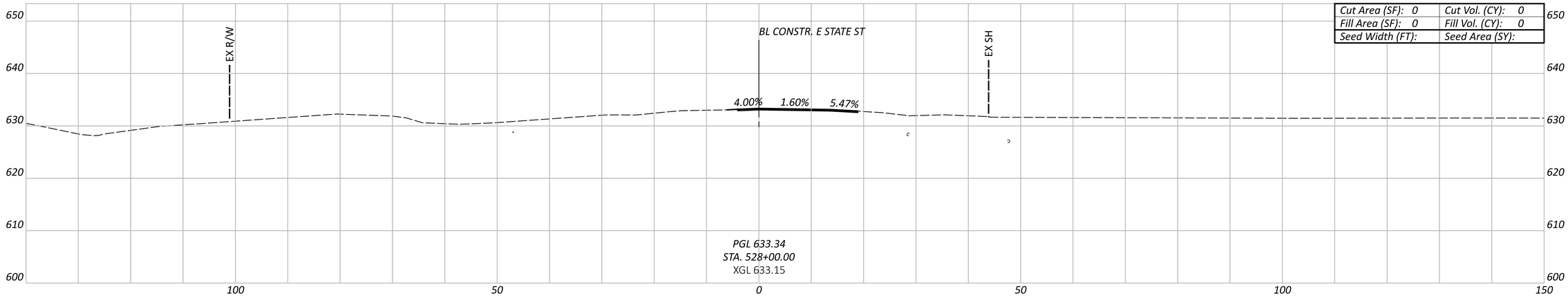

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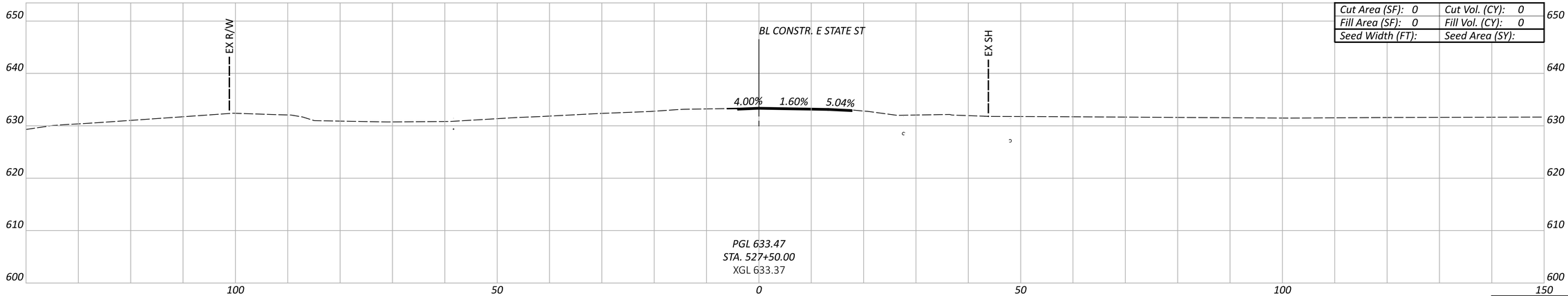

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Seed Width (FT):	Seed Area (SY):

CROSS SECTIONS - EB BUS-20
STA. 527+50 TO STA. 528+50

CTY-RTE-SECTION

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Sheet Totals		
Seeding	Cut	Fill

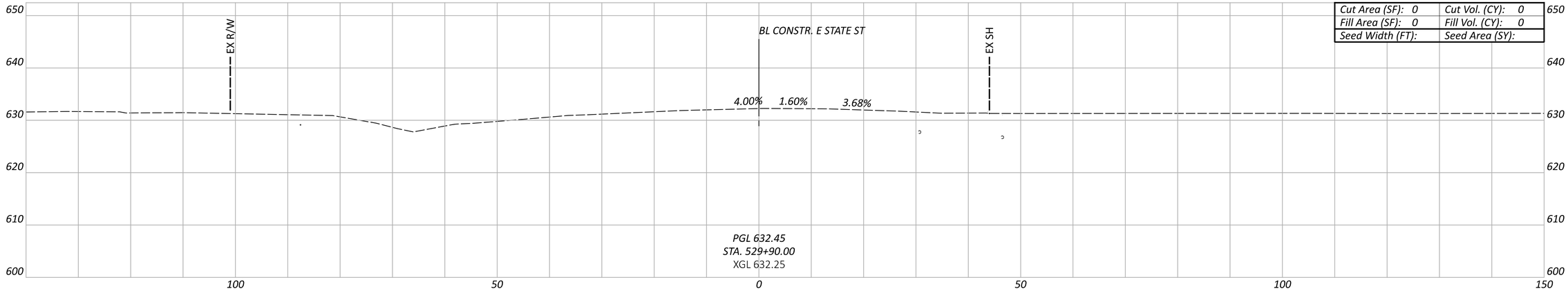
DESIGN AGENCY

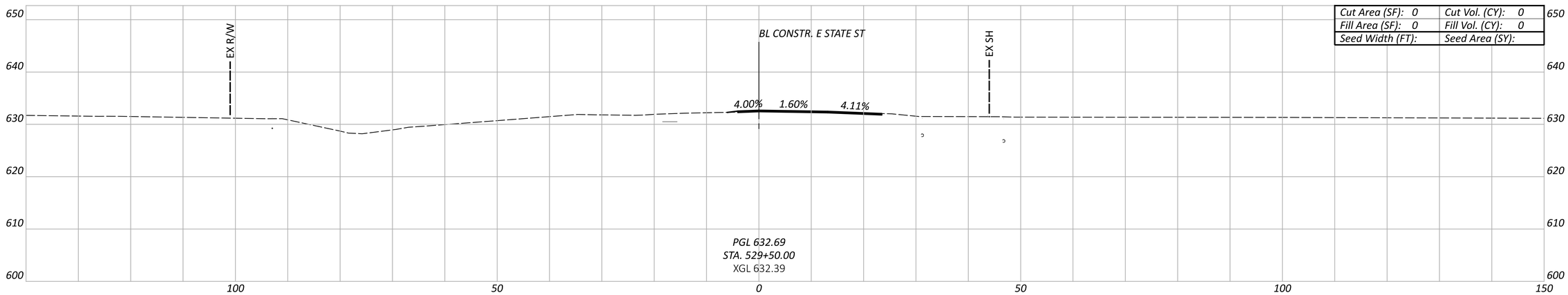
DESIGNER TEH

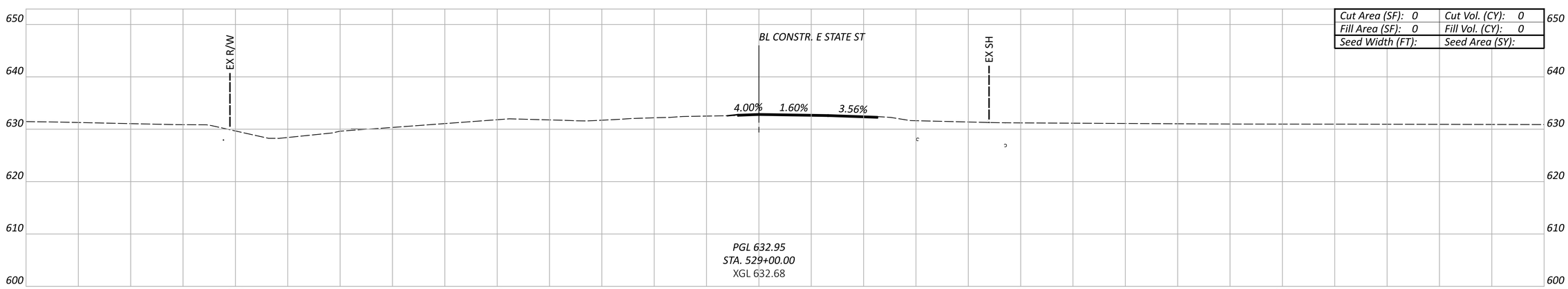
REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.90 TOTAL 169







CTY-RTE-SECTION

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CROSS SECTIONS - EB BUS-20
STA. 529+90 TO STA. 529+00

Sheet Totals		
Seeding	Cut	Fill

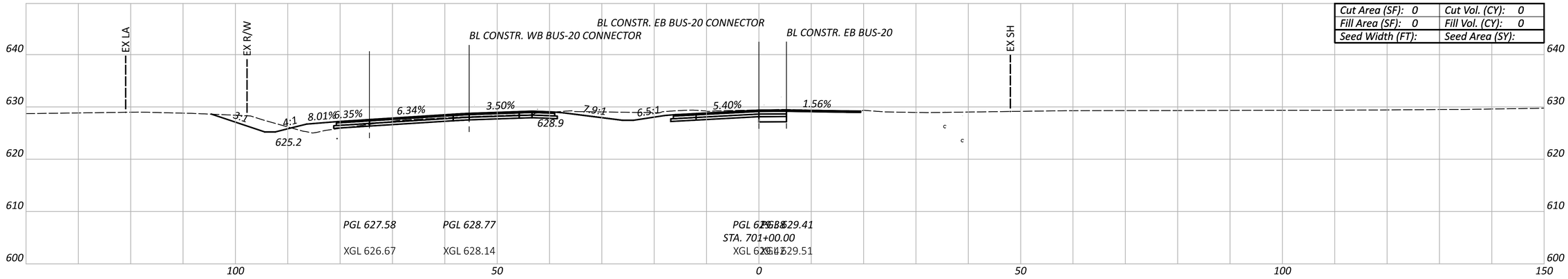
DESIGN AGENCY

DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.91 | TOTAL 169



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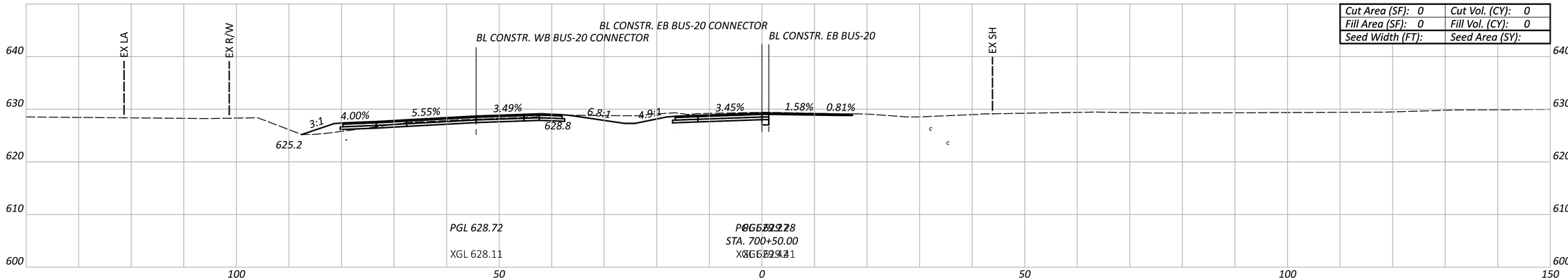
Seed Width (FT):	Seed Area (SY):



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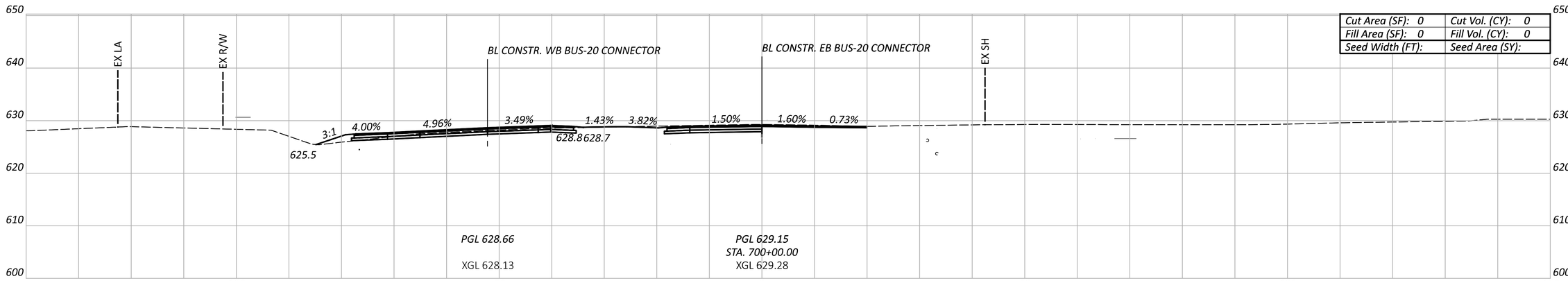

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Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS - EB BUS-20 CONN
STA. 700+00 TO STA. 701+00

CTY-RTE-SECTION

MODEL: E State St CONN - 700+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:22:16 PM USER: PIA81677
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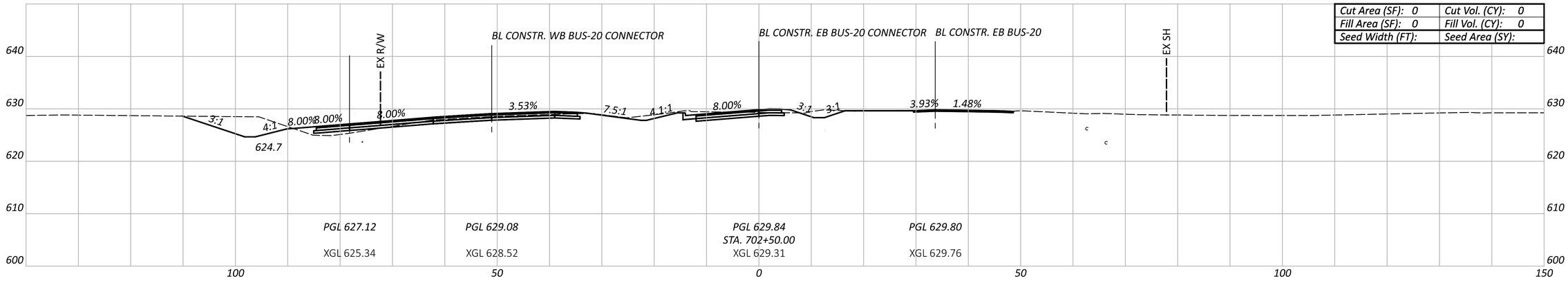
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER	TEH
REVIEWER	SJP 07/26/24
PROJECT ID	112222
SHEET	P.92
TOTAL	169



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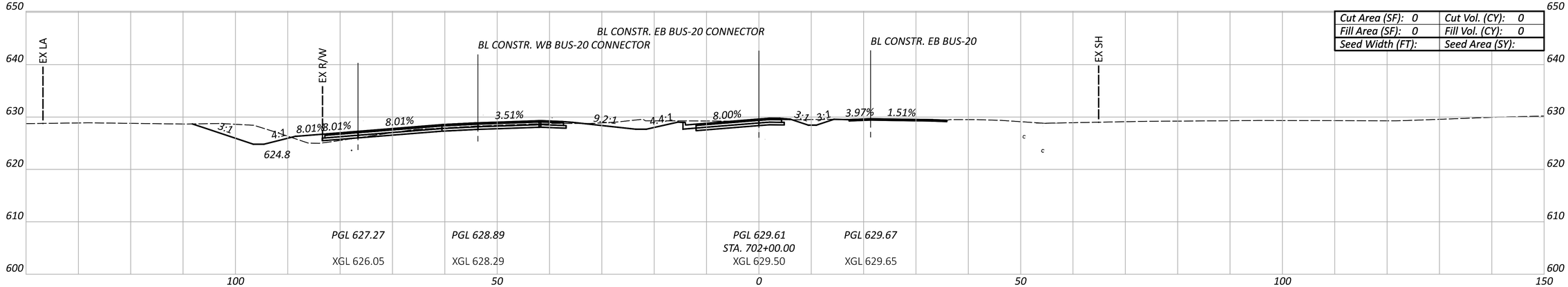

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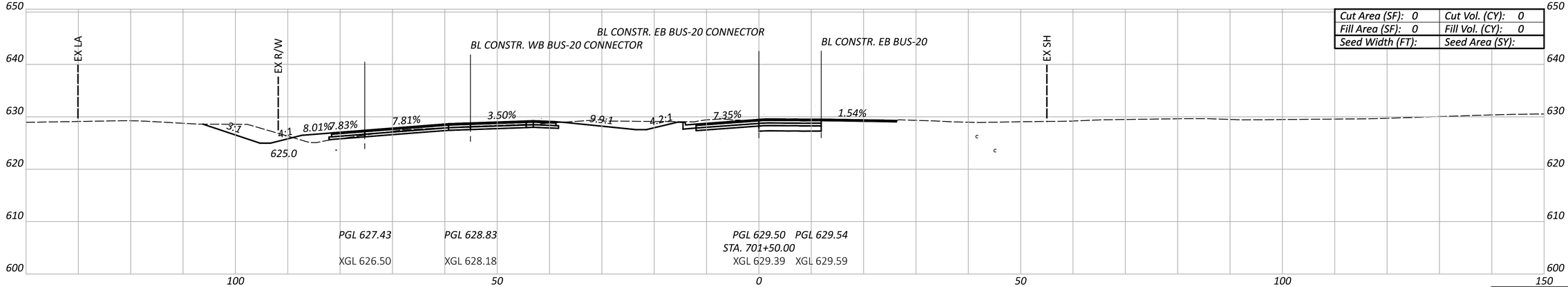

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Seed Width (FT):	Seed Area (SY):

Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS - EB BUS-20 CONN
STA. 701+50 TO STA. 702+50

CTY-RTE-SECTION

MODEL: E State St CONN - 701+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:22:27 PM USER: PIA81677
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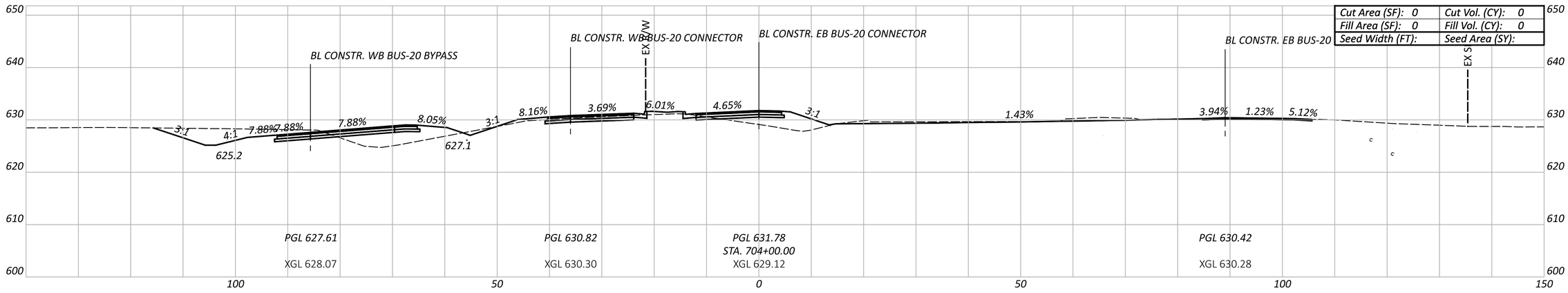
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

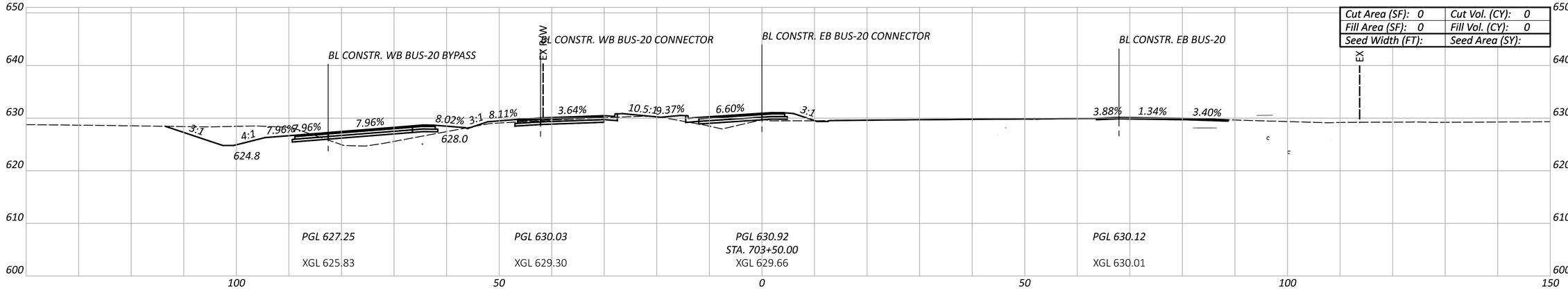
DESIGNER: TEH

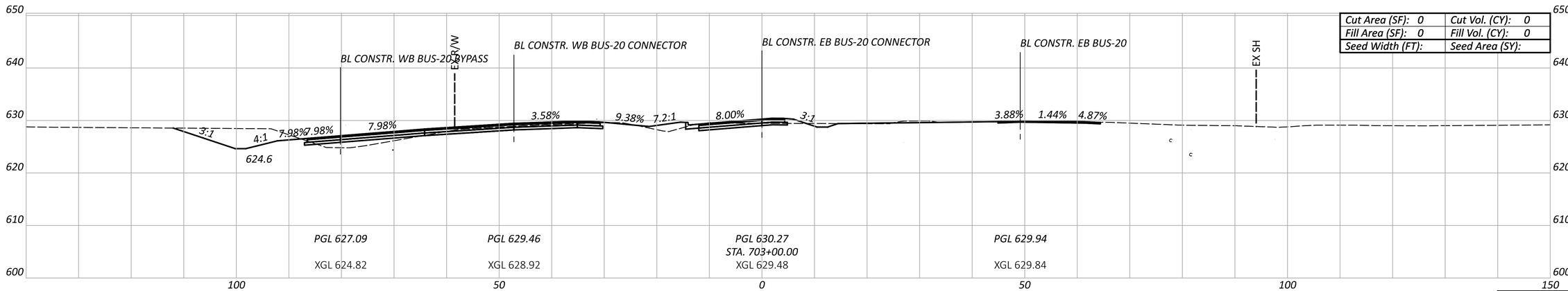
REVIEWER: SJP 07/26/24

PROJECT ID: 112222

SHEET: P.93 TOTAL: 169







CROSS SECTIONS - EB BUS-20 CONN
STA. 703+00 TO STA. 704+00

CTY-RTE-SECTION

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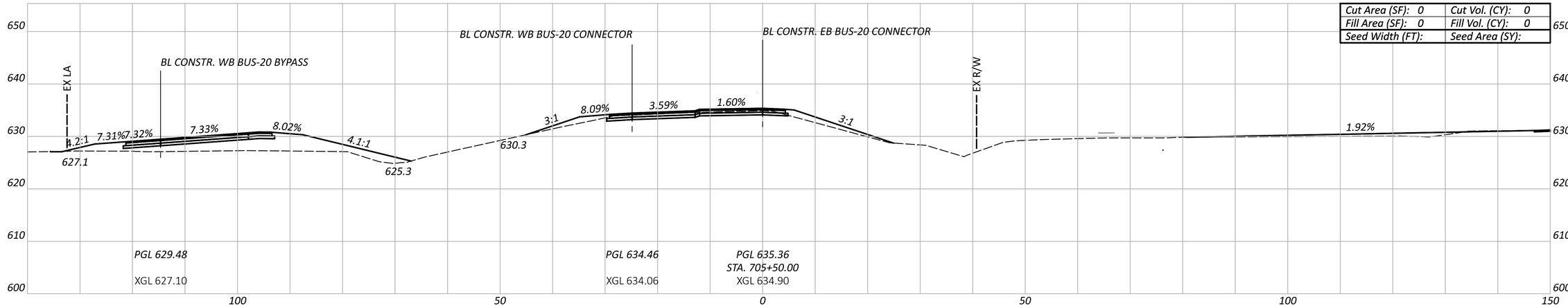
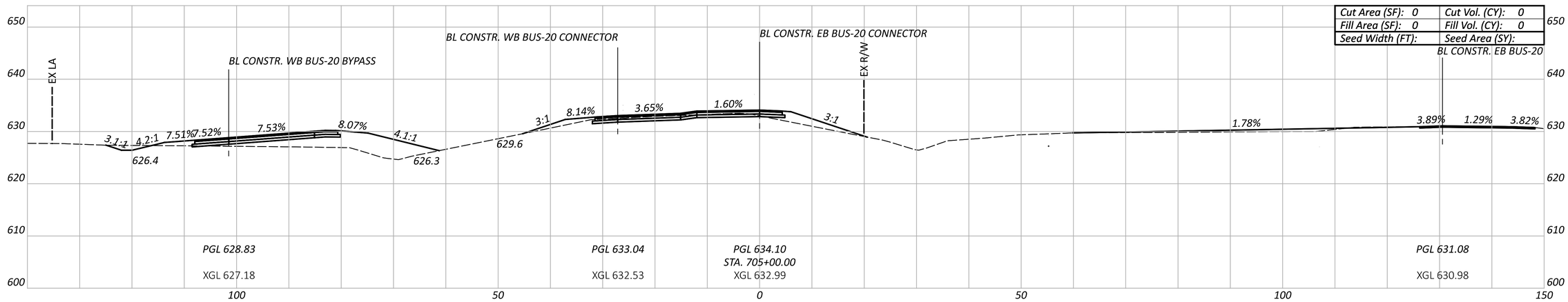
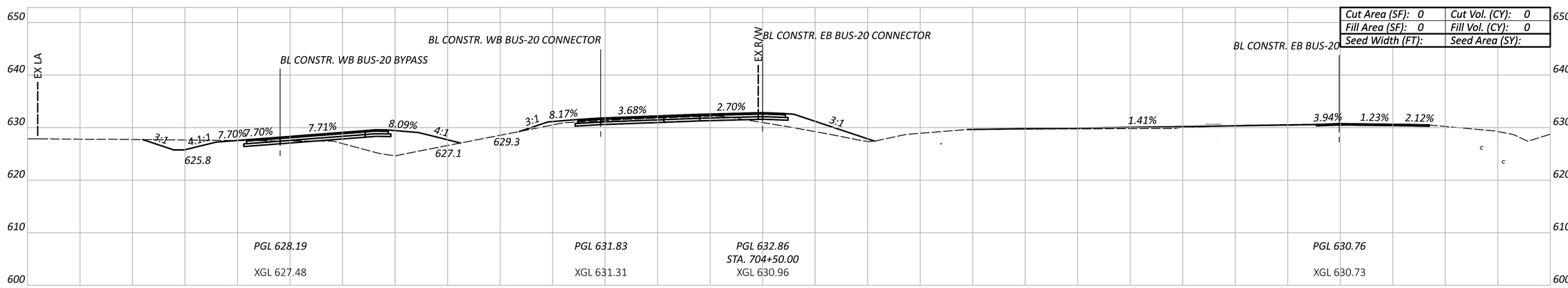
Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER: TEH
REVIEWER: SJP 07/26/24
PROJECT ID: 112222
SHEET: P.94
TOTAL: 169







CROSS SECTIONS - EB BUS-20 CONN
STA. 704+50 TO STA. 705+50

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER TEH
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.95 TOTAL 169

CTY-RTE-SECTION

MODEL: E State St CONN - 704+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:22:46 PM USER: PIA81677
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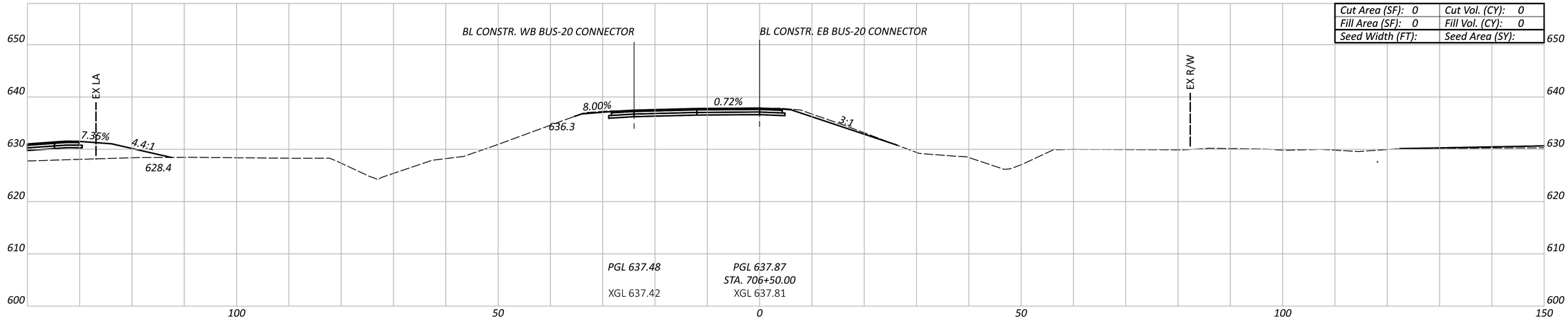
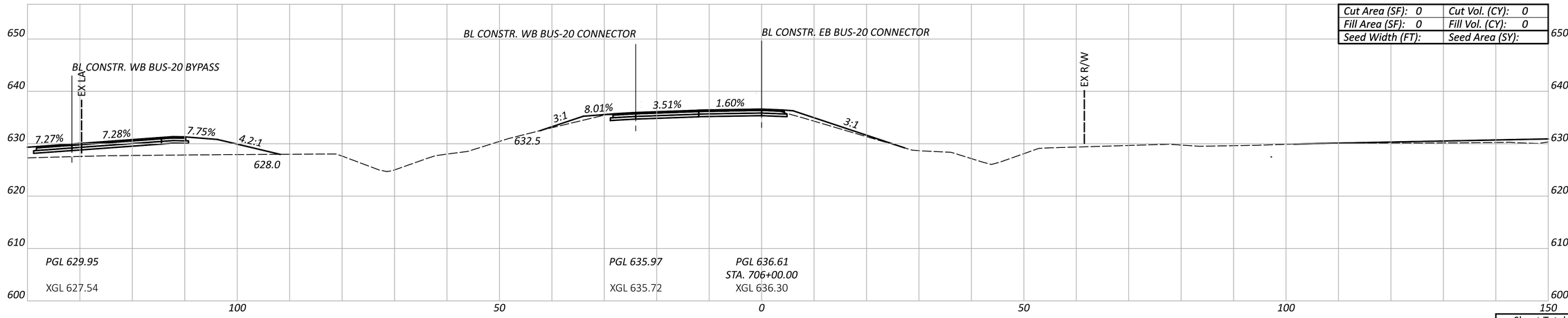
CROSS SECTIONS - EB BUS-20 CONN
STA. 706+00 TO STA. 706+50





CTY-RTE-SECTION

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Sheet Totals		
Seeding	Cut	Fill

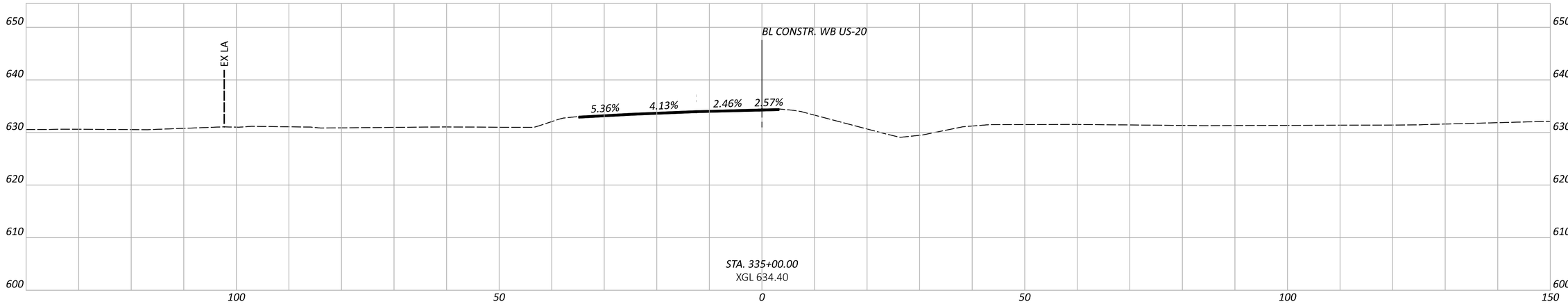
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

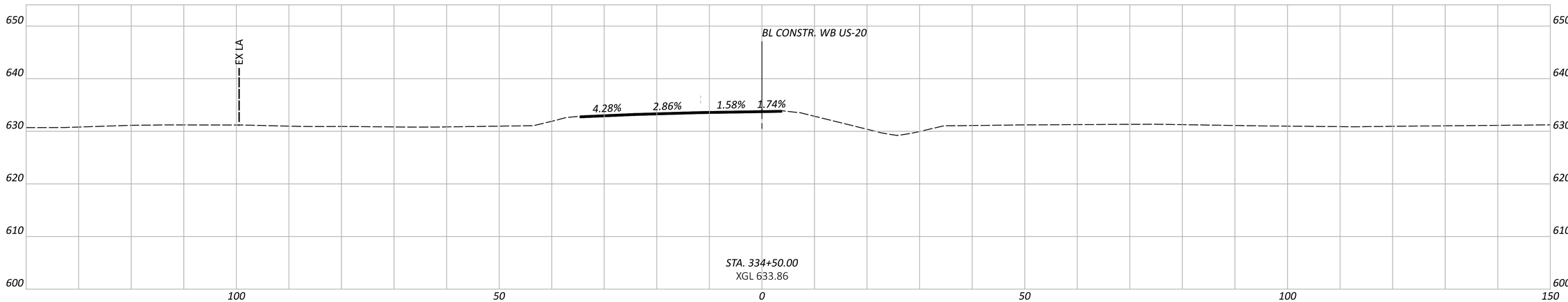
DESIGNER
TEH

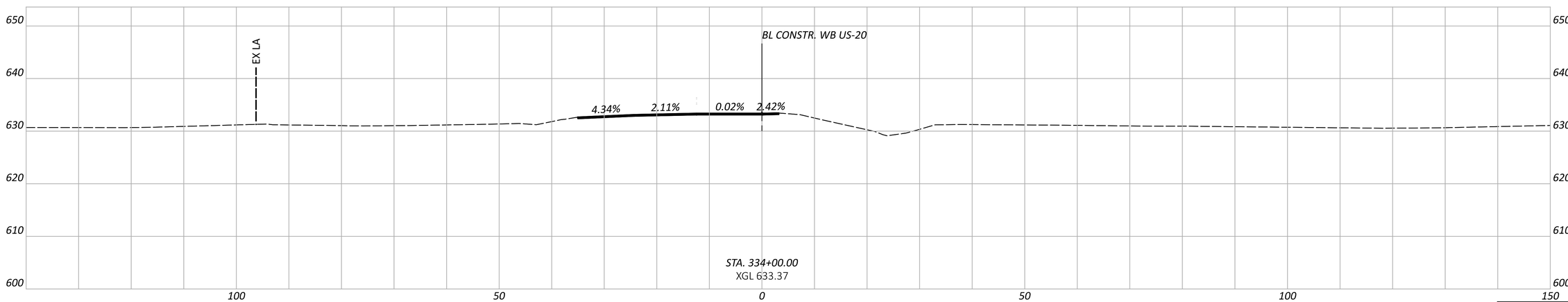
REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.96 | TOTAL 169







CROSS SECTIONS - WB US-20
STA. 334+00 TO STA. 335+00

CTY-RTE-SECTION

MODEL: US-20 WB - 334+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:23:12 PM USER: PIA81677
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Sheet Totals		
Seeding	Cut	Fill

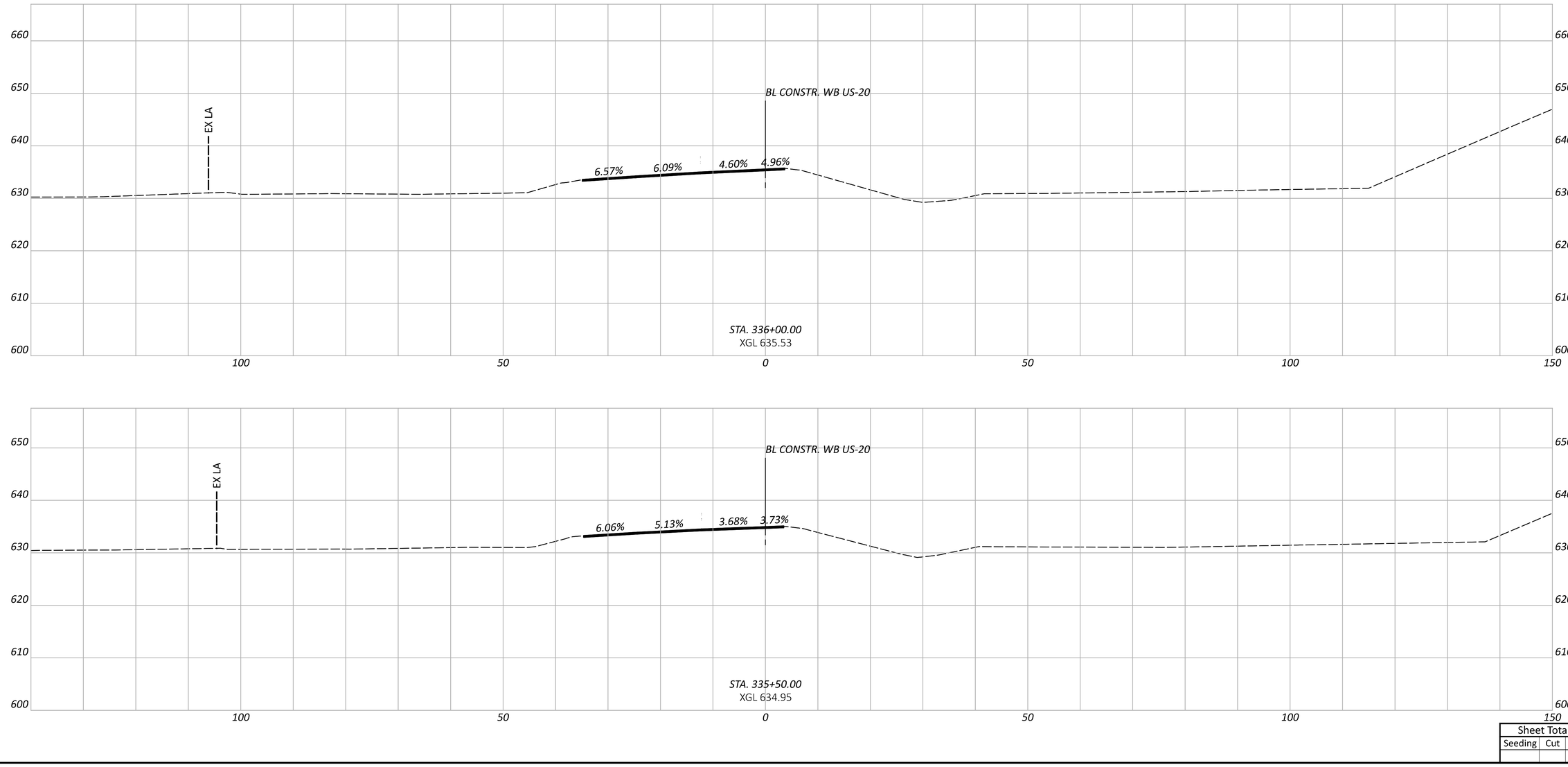
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER: TEH

REVIEWER: SJP 07/26/24

PROJECT ID: 112222

SHEET: P.97 TOTAL: 169



CTY-RTE-SECTION

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CROSS SECTIONS - WB US-20
STA. 335+50 TO STA. 336+00

Sheet Totals		
Seeding	Cut	Fill

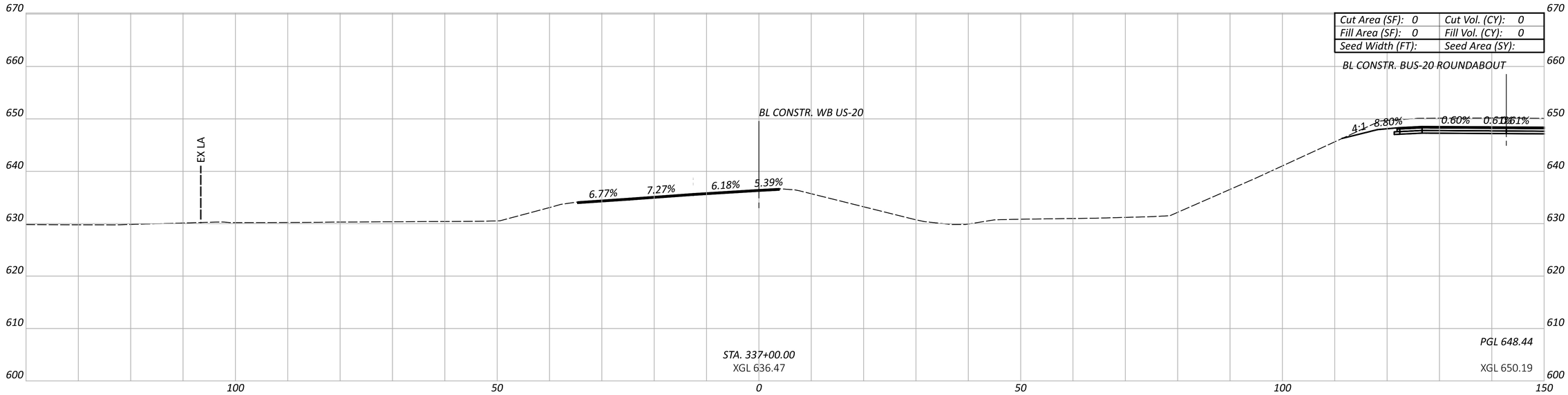
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

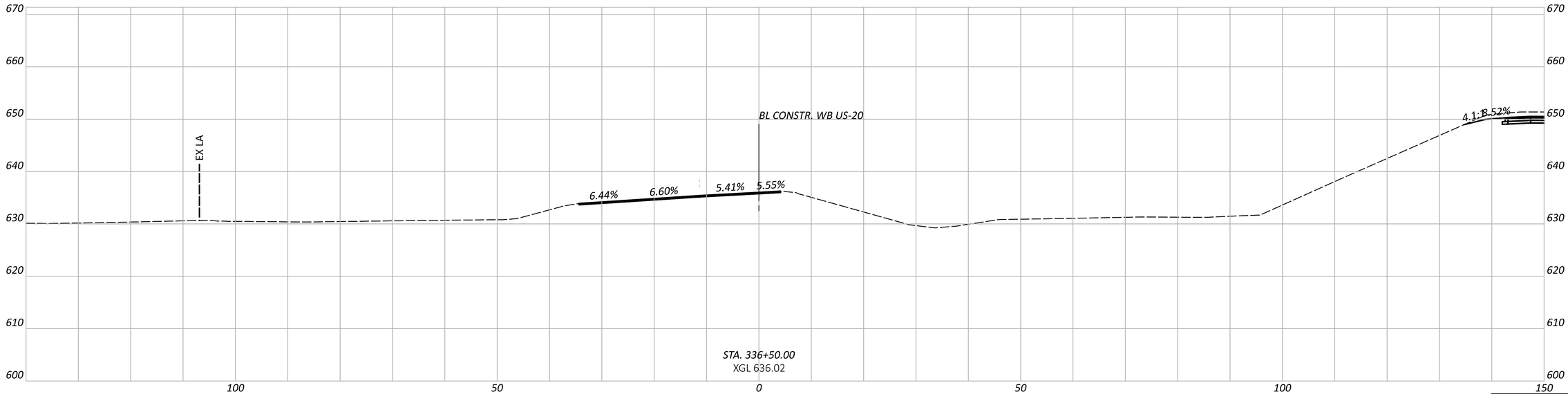
DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.98 | TOTAL 169





CROSS SECTIONS - WB US-20
STA. 336+50 TO STA. 337+00

CTY-RTE-SECTION

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Sheet Totals

Seeding	Cut	Fill

DESIGN AGENCY

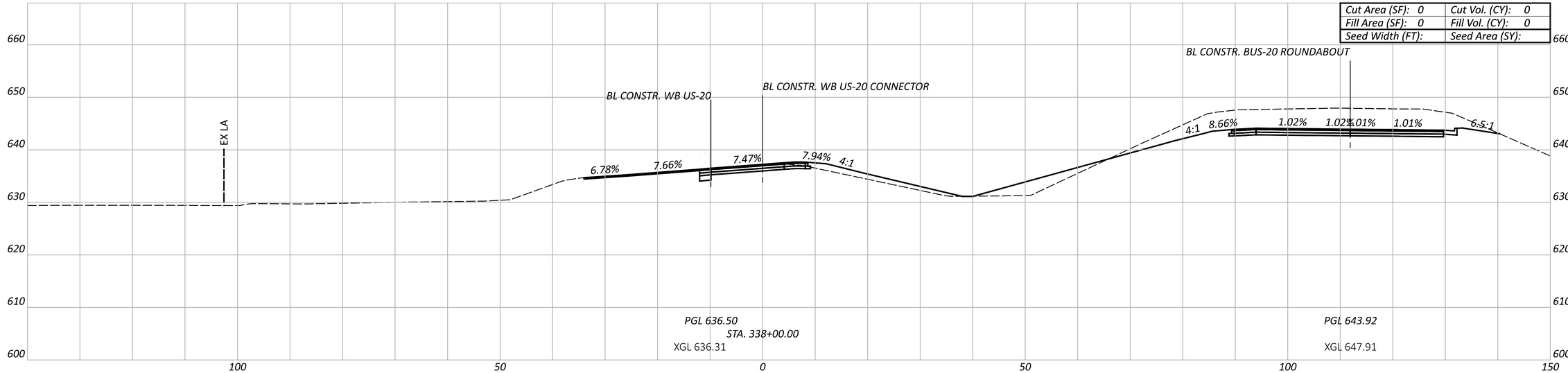
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

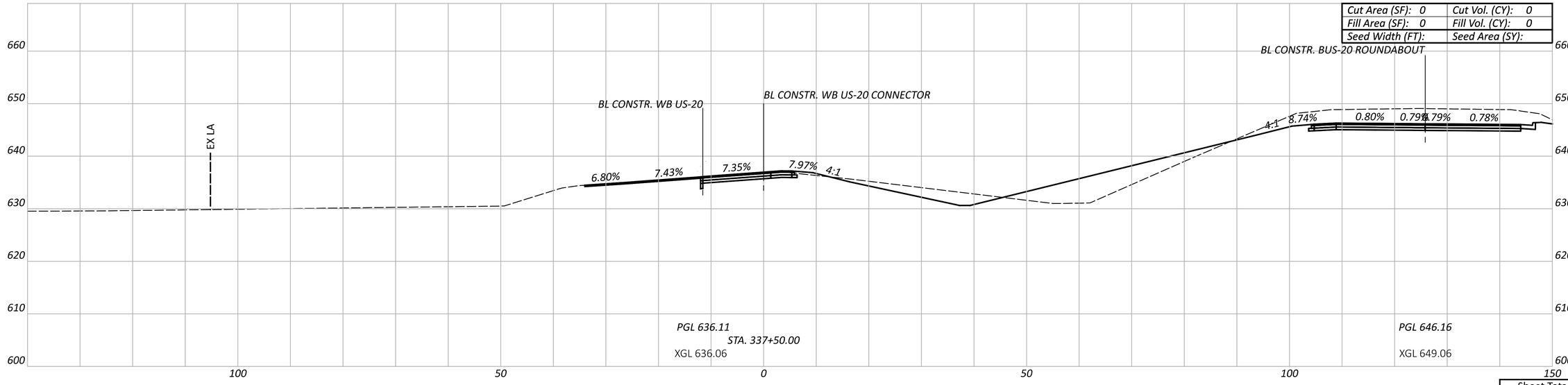
DESIGNER: TEH

REVIEWER: SJP 07/26/24

PROJECT ID: 112222

SHEET: P.99 TOTAL: 169





CROSS SECTIONS - WB US-20
STA. 337+50 TO STA. 338+00

CTY-RTE-SECTION

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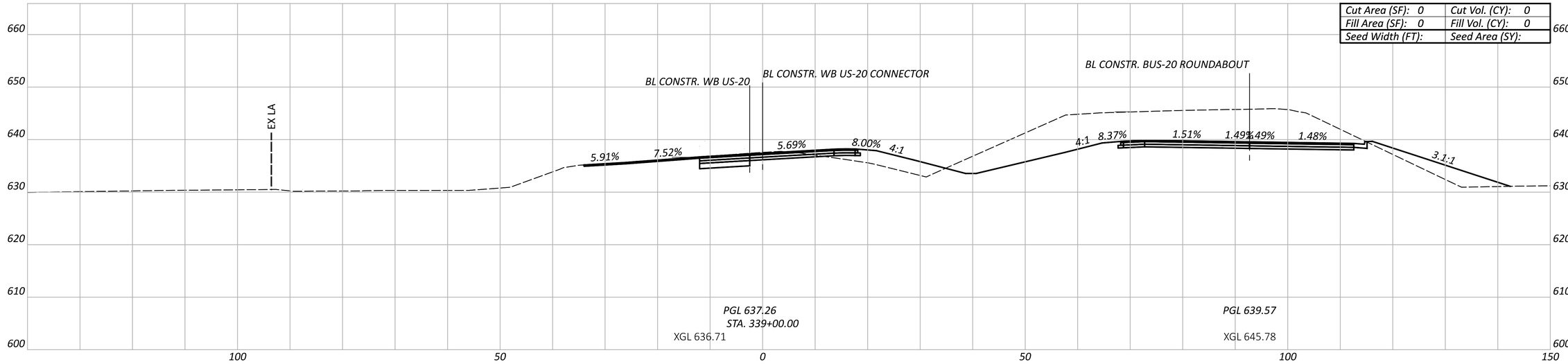
Sheet Totals		
Seeding	Cut	Fill

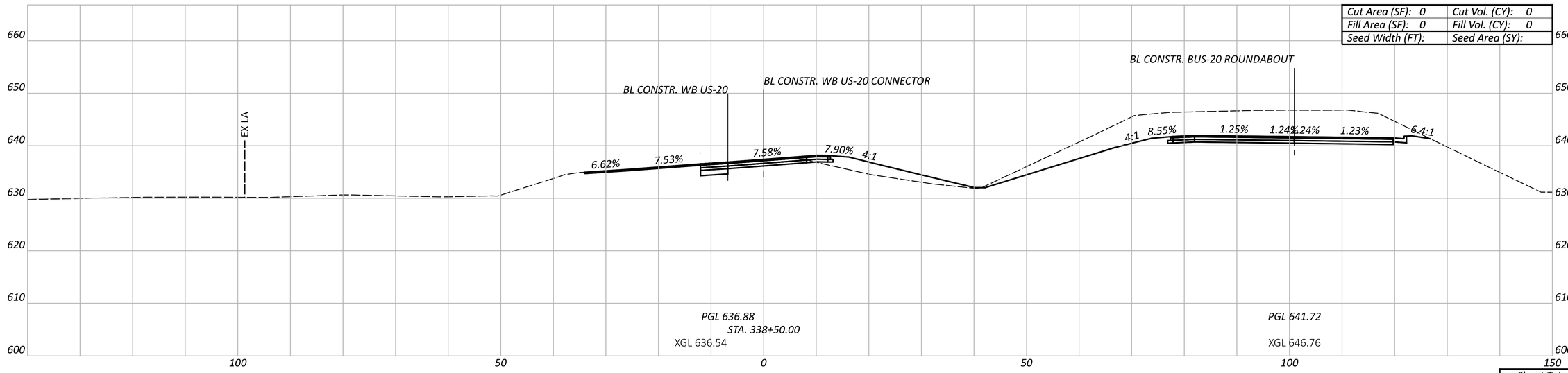
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222





CROSS SECTIONS - WB US-20
STA. 338+50 TO STA. 339+00

CTY-RTE-SECTION

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Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY

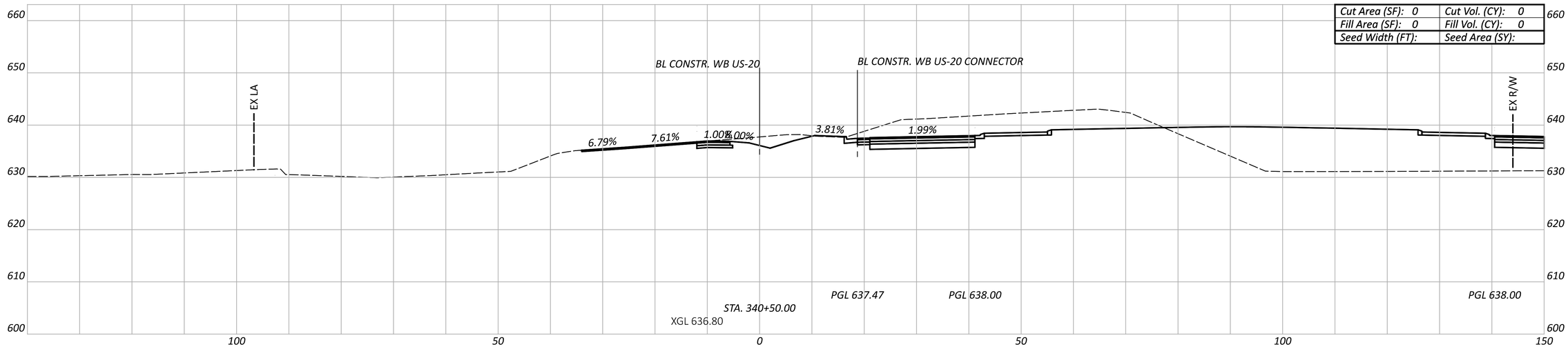
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

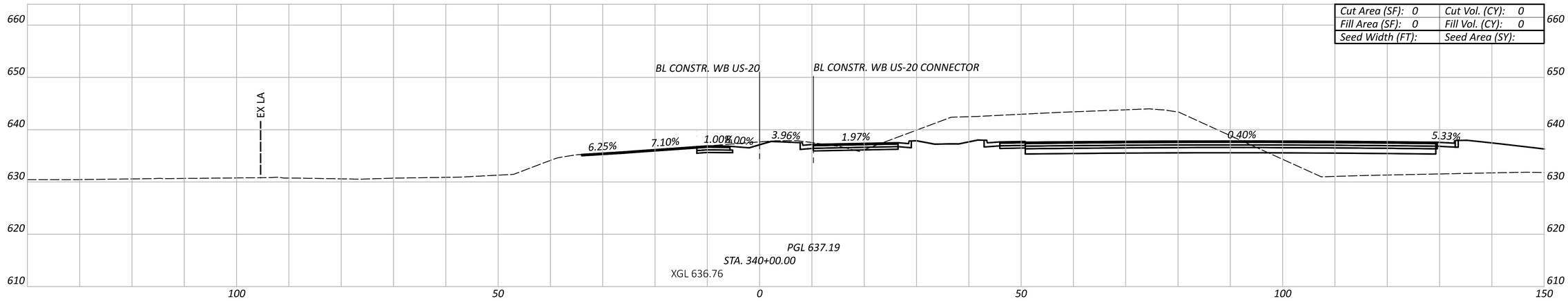
DESIGNER
TEH

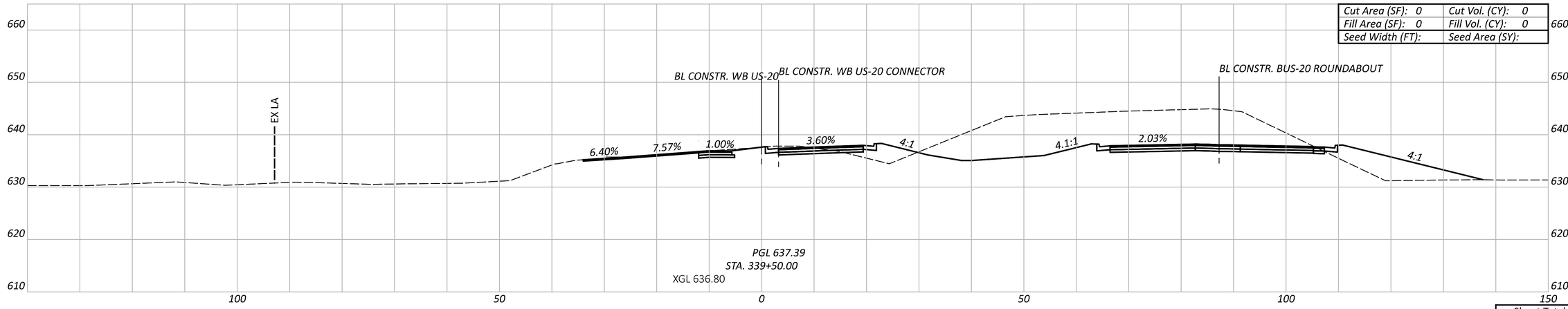
REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.101 | TOTAL 169







CROSS SECTIONS - WB US-20
STA. 339+50 TO STA. 340+50

CTY-RTE-SECTION

MODEL: US-20 WB - 339+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:23:40 PM USER: PIA81677
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Sheet Totals		
Seeding	Cut	Fill

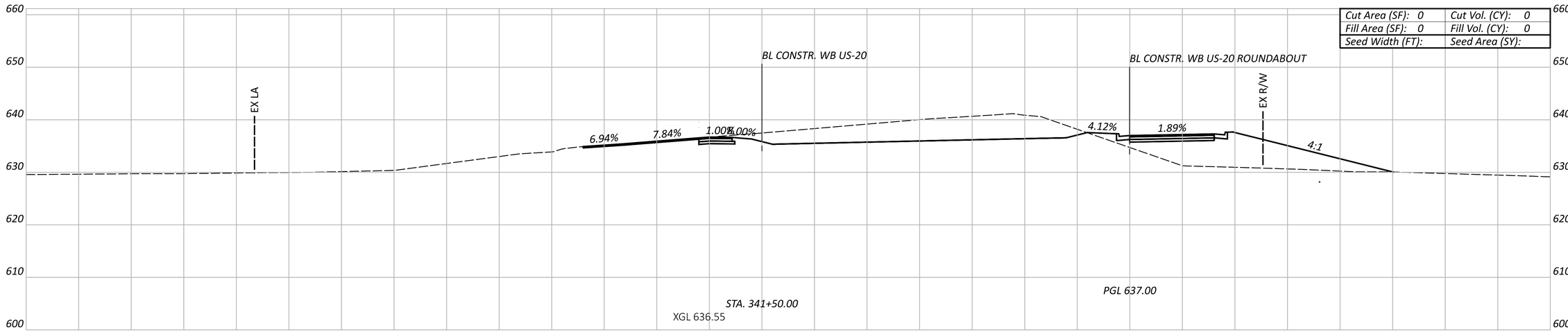
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

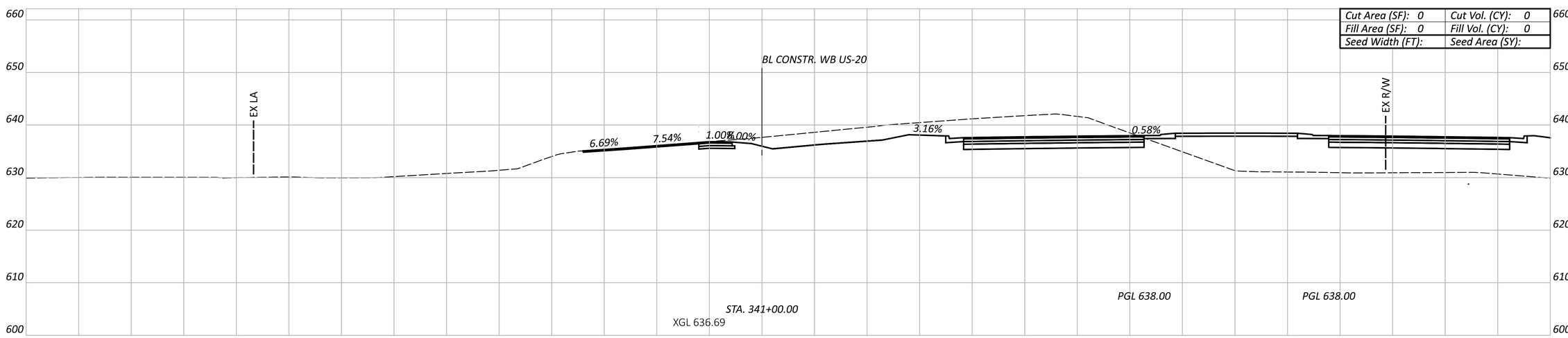
DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.102 | TOTAL 169





CROSS SECTIONS - WB US-20
STA. 341+00 TO STA. 341+50

CTY-RTE-SECTION

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Sheet Totals		
Seeding	Cut	Fill

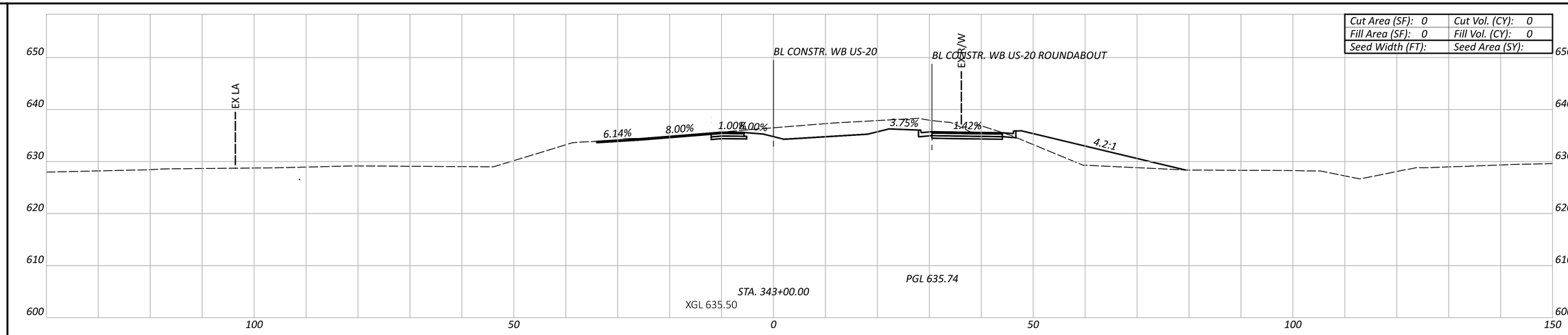
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

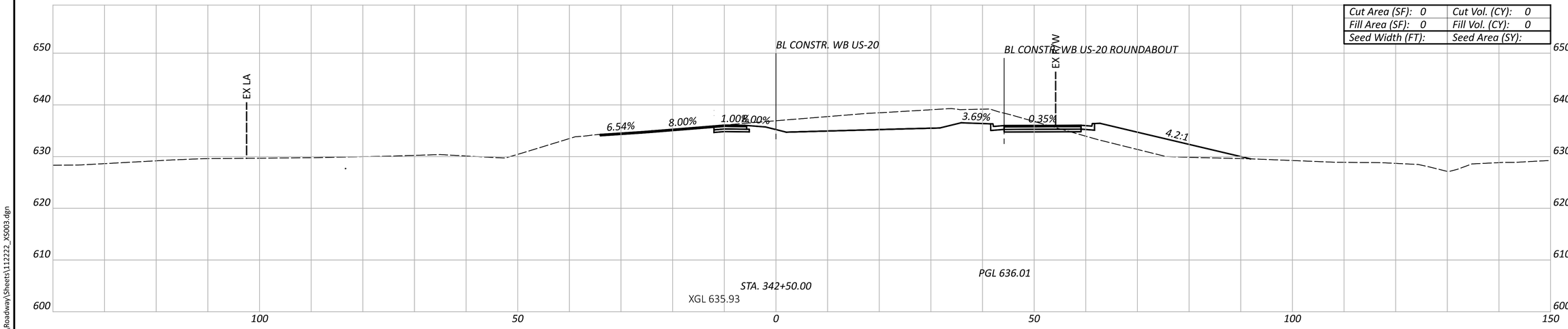
DESIGNER TEH

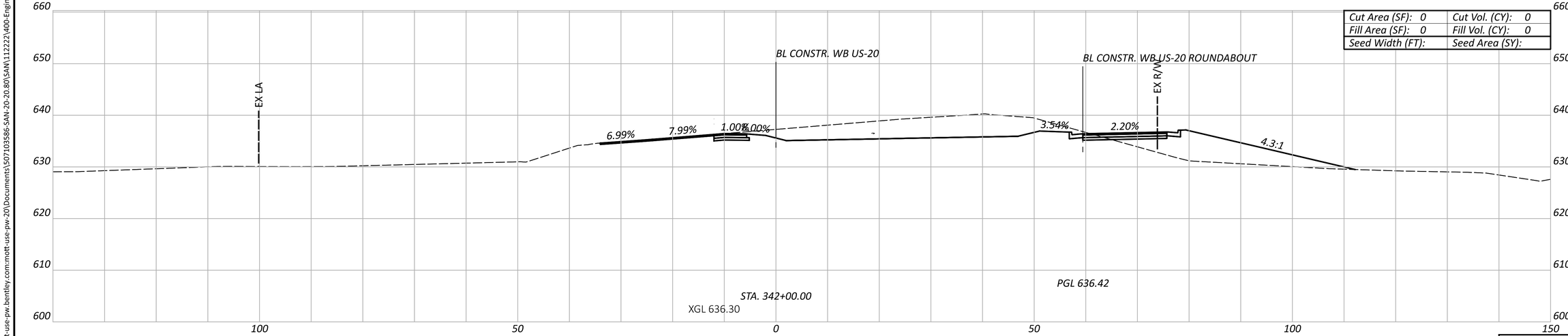
REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.103 TOTAL 169







CROSS SECTIONS - WB US-20
STA. 342+00 TO STA. 343+00

CTY-RTE-SECTION

MODEL: US-20 WB - 342+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:23:52 PM USER: PIA81677
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Sheet Totals		
Seeding	Cut	Fill

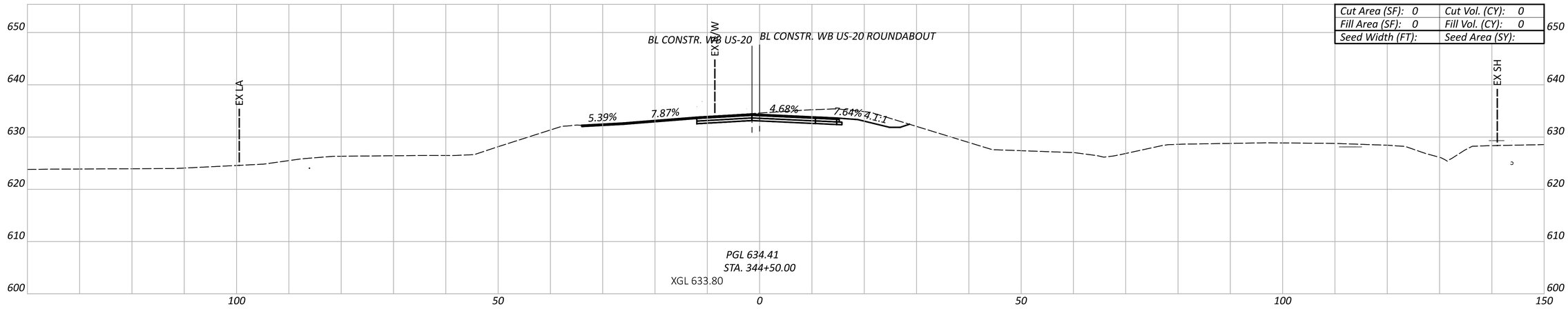
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.104 | TOTAL 169



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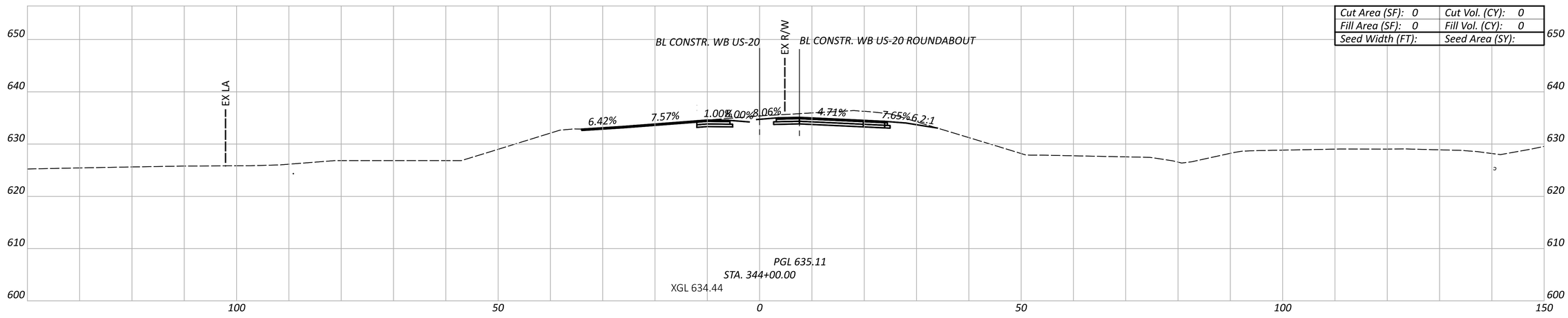
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



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Fill Area (SF): 0	Fill Vol. (CY): 0
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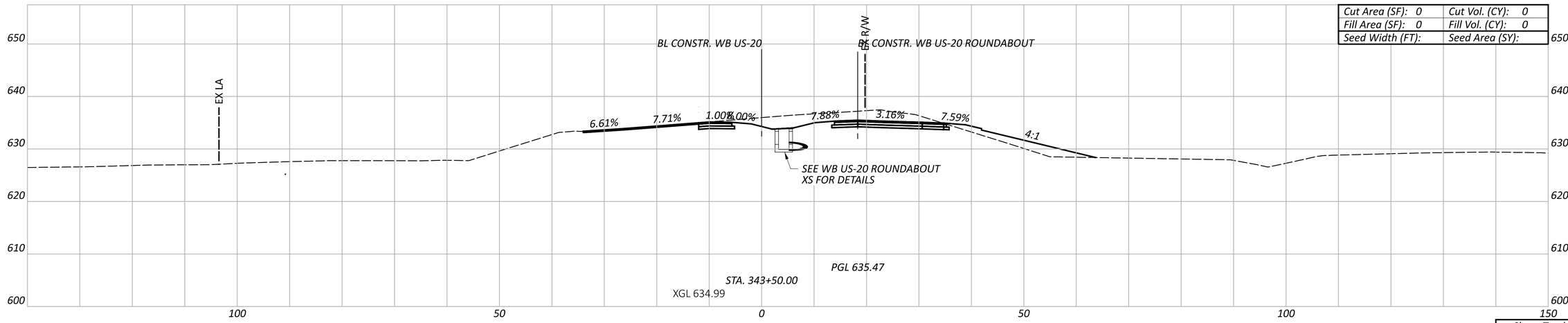

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):

CROSS SECTIONS - WB US-20
STA. 343+50 TO STA. 344+50

CTY-RTE-SECTION

MODEL: US-20 WB - 343+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:23:59 PM USER: PIA81677
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Sheet Totals		
Seeding	Cut	Fill

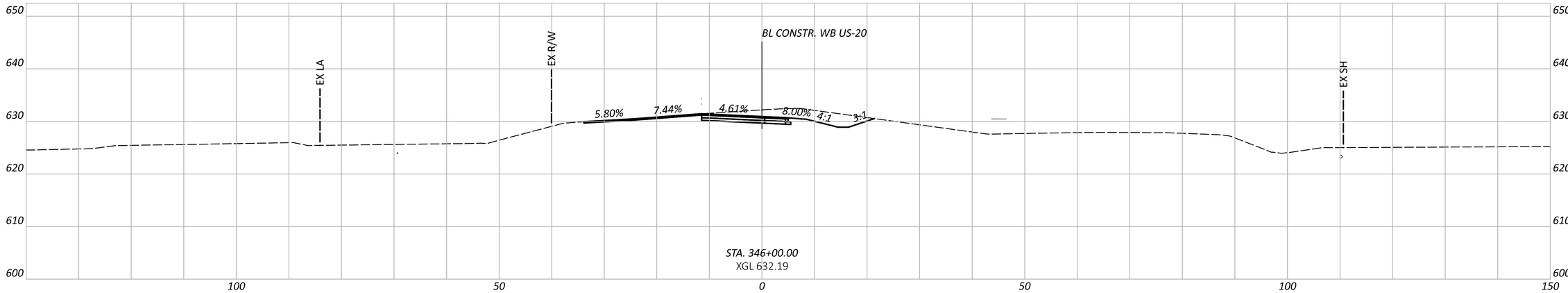
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

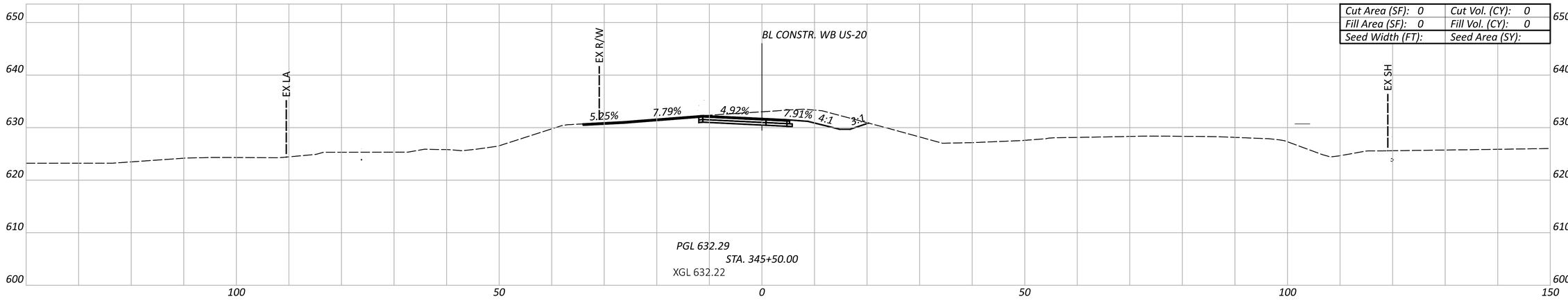
DESIGNER: TEH

REVIEWER: SJP 07/26/24

PROJECT ID: 112222

SHEET: P.105 TOTAL: 169





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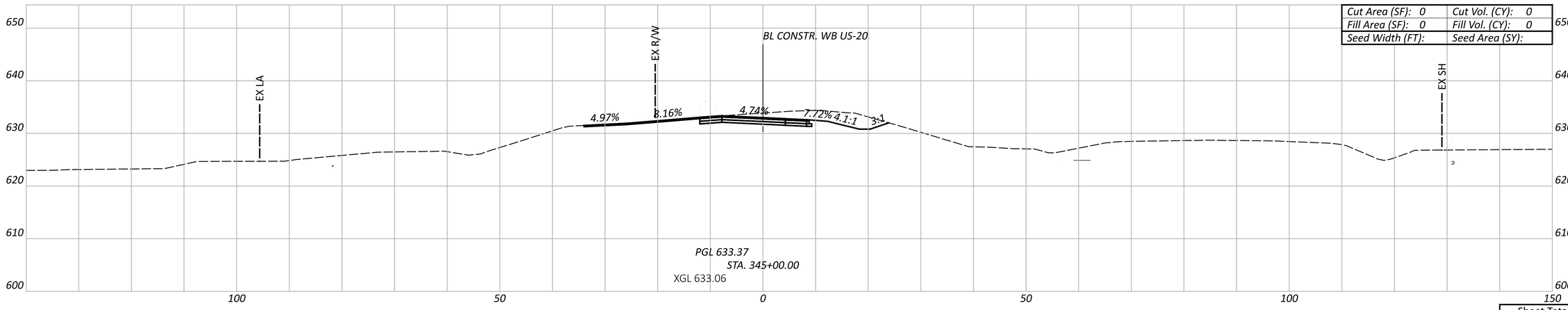

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):

CROSS SECTIONS - WB US-20
STA. 345+00 TO STA. 346+00

CTY-RTE-SECTION

MODEL: US-20 WB - 345+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:24:06 PM USER: PIA81677
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Sheet Totals		
Seeding	Cut	Fill

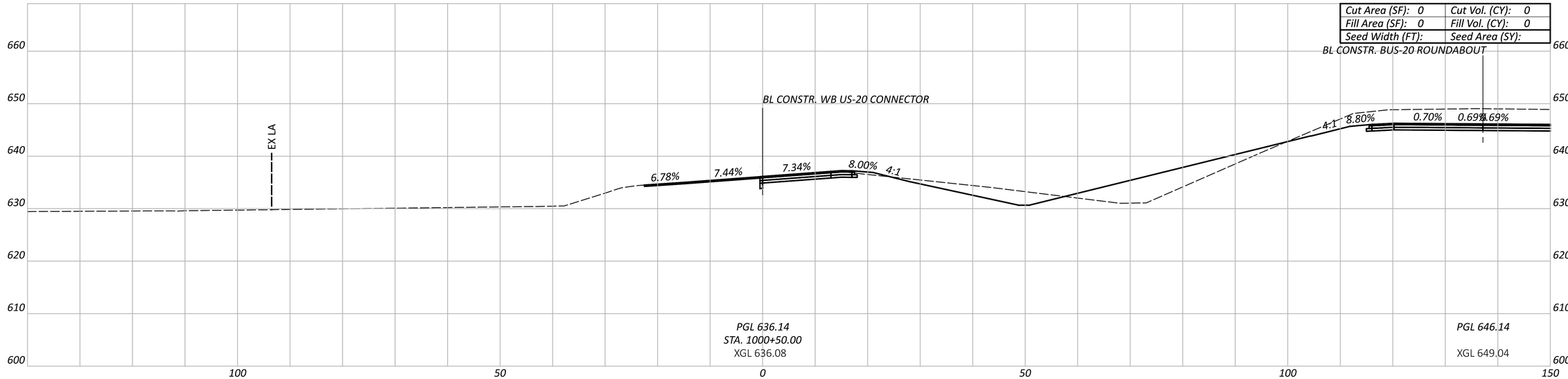
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

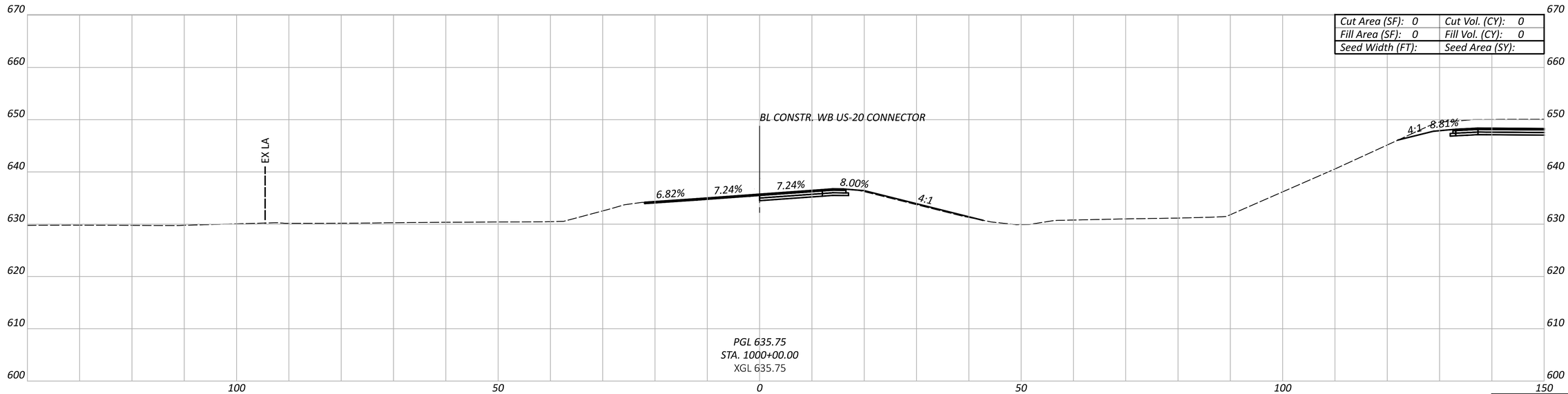
DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.106 TOTAL 169





CROSS SECTIONS - RAB NORTH
STA. 1000+00 TO STA. 1000+50

CTY-RTE-SECTION

MODEL: RAB North - 1000+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:24:27 PM USER: PIA81677
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Sheet Totals		
Seeding	Cut	Fill

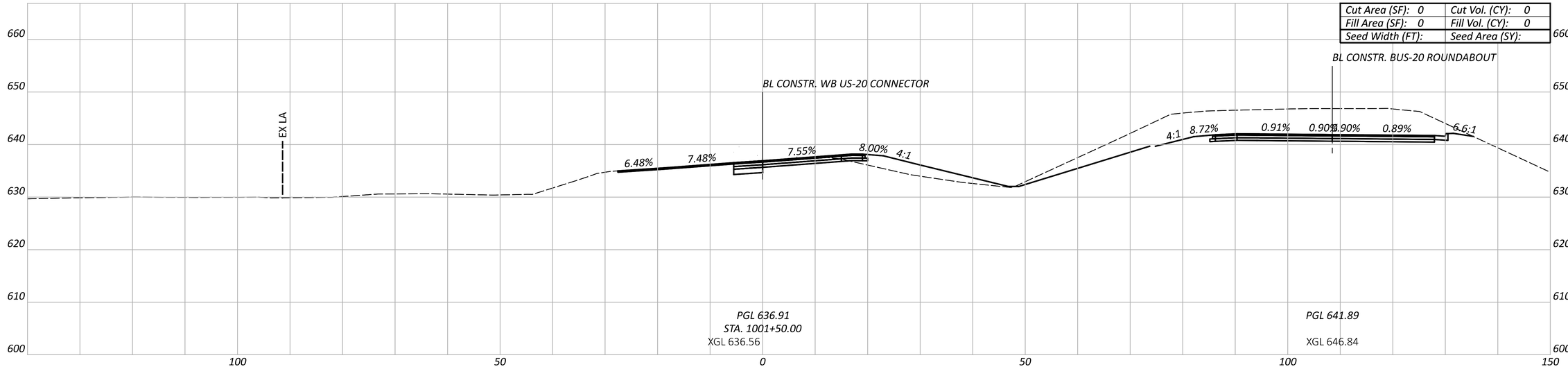
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

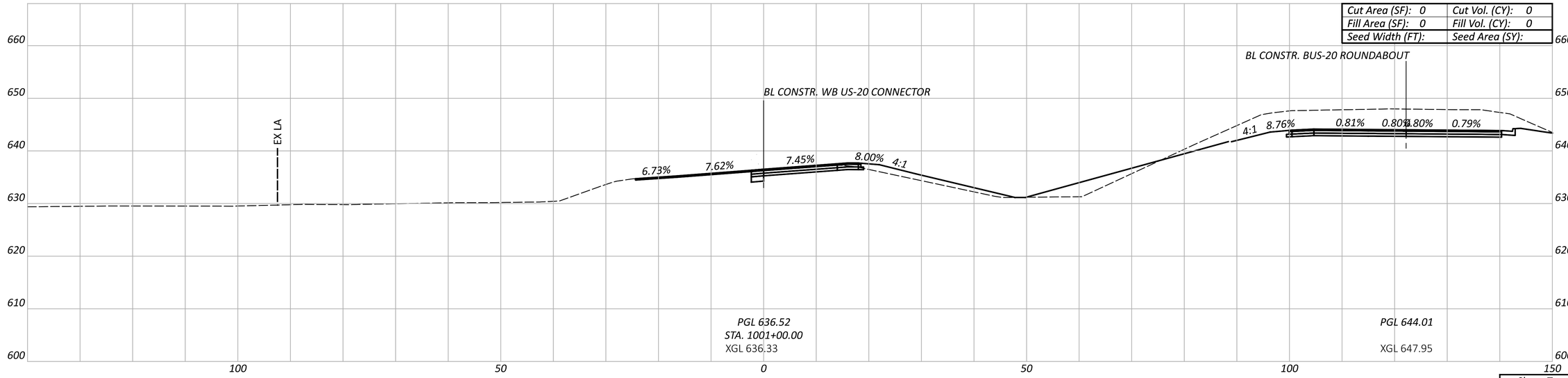
DESIGNER: TEH

REVIEWER: SJP 07/26/24

PROJECT ID: 112222

SHEET: P.107 TOTAL: 169





CROSS SECTIONS - RAB NORTH
STA. 1001+00 TO STA. 1001+50

CTY-RTE-SECTION

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Sheet Totals		
Seeding	Cut	Fill

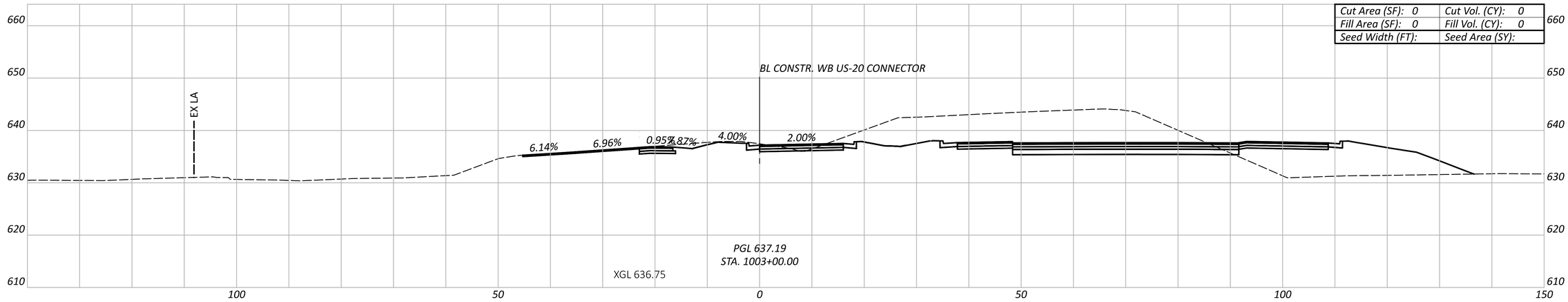
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

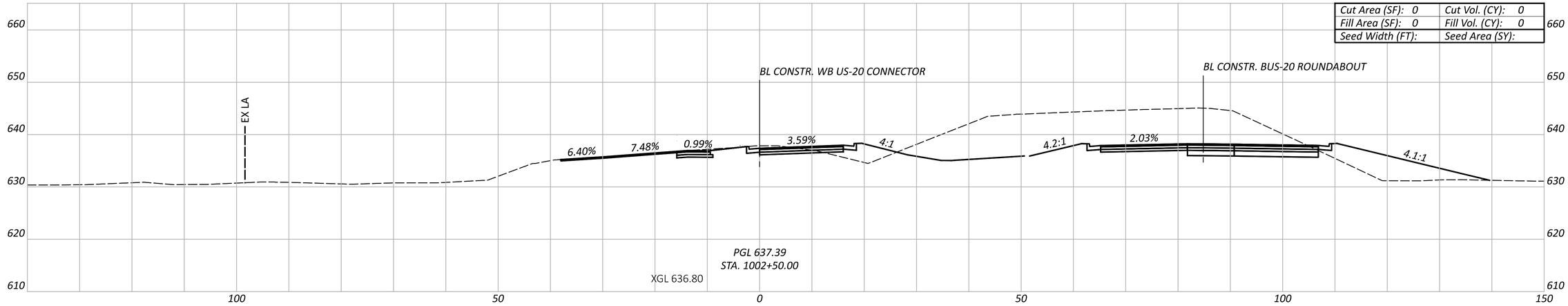
DESIGNER
TEH

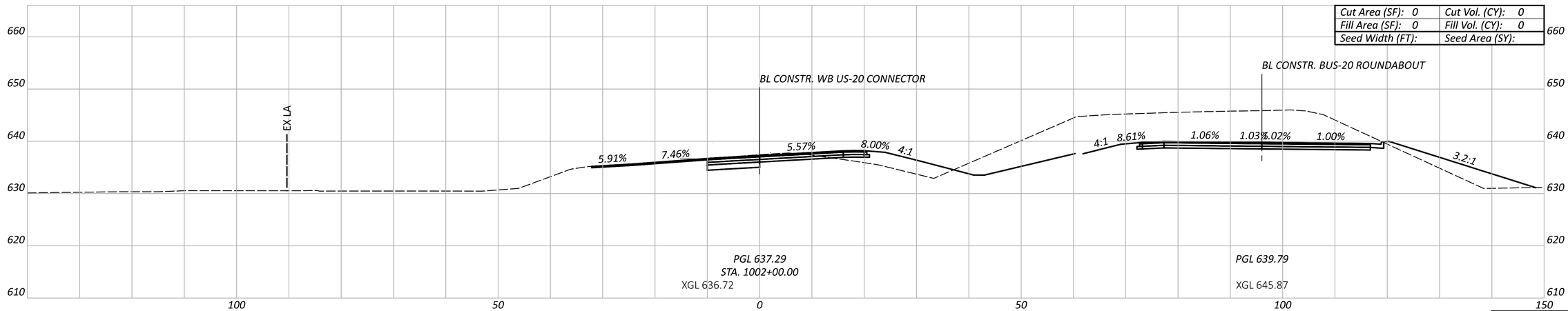
REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.108 | TOTAL 169







CTY-RTE-SECTION

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CROSS SECTIONS - RAB NORTH
STA. 1002+00 TO STA. 1003+00

Sheet Totals		
Seeding	Cut	Fill

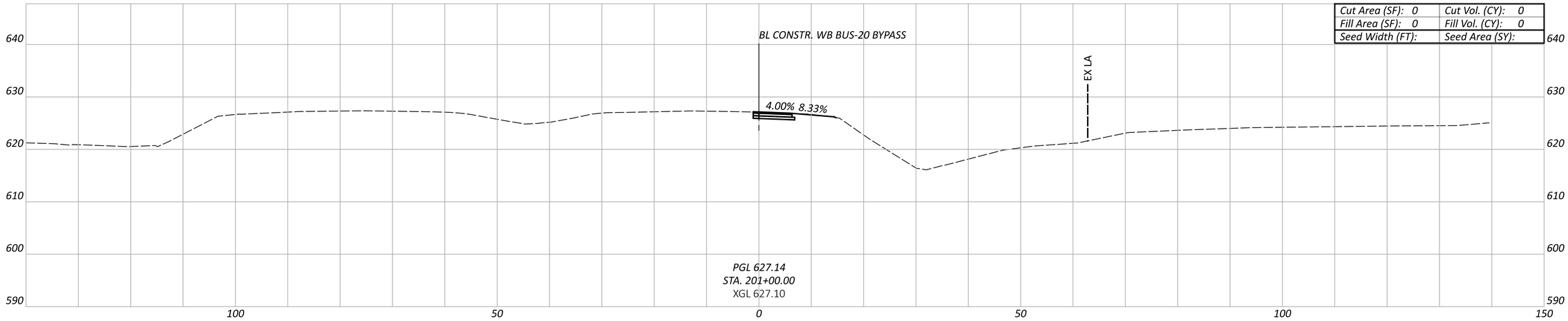
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.109 TOTAL 169



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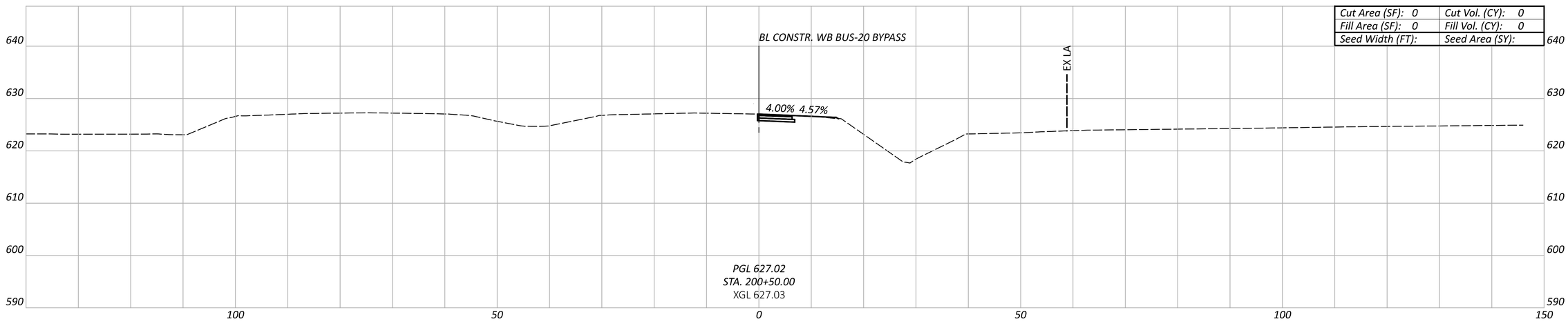

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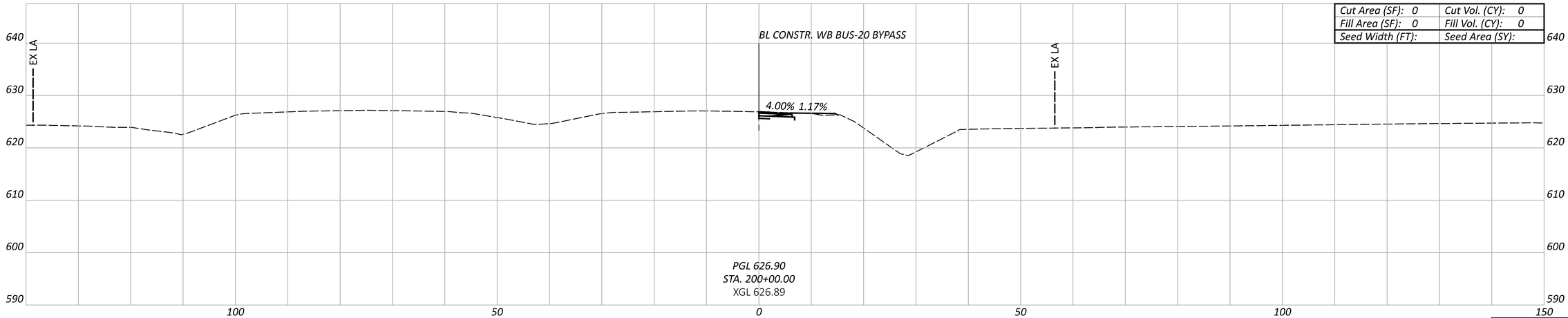

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CTY-RTE-SECTION

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CROSS SECTIONS - WB BUS-20 BYPASS
STA. 200+00 TO STA. 201+00

Sheet Totals		
Seeding	Cut	Fill

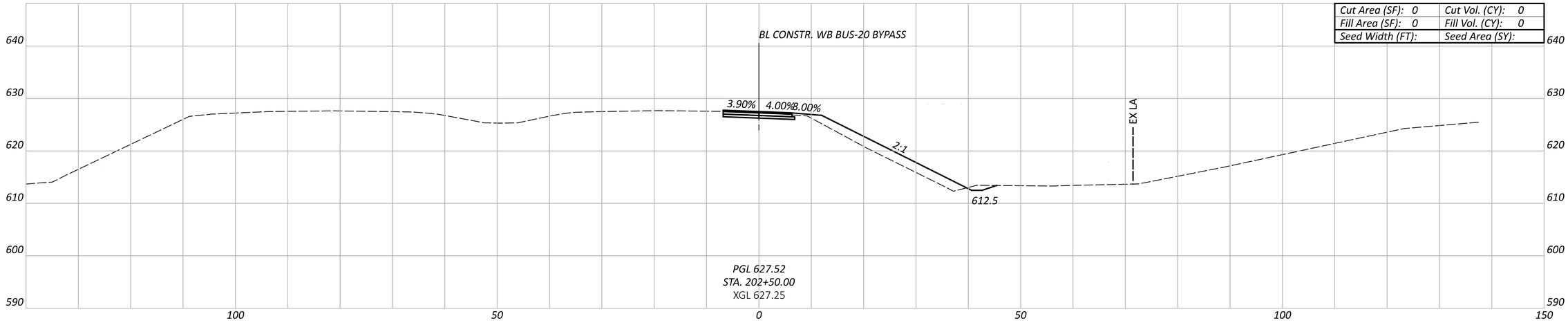
DESIGN AGENCY

DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.110 | TOTAL 169



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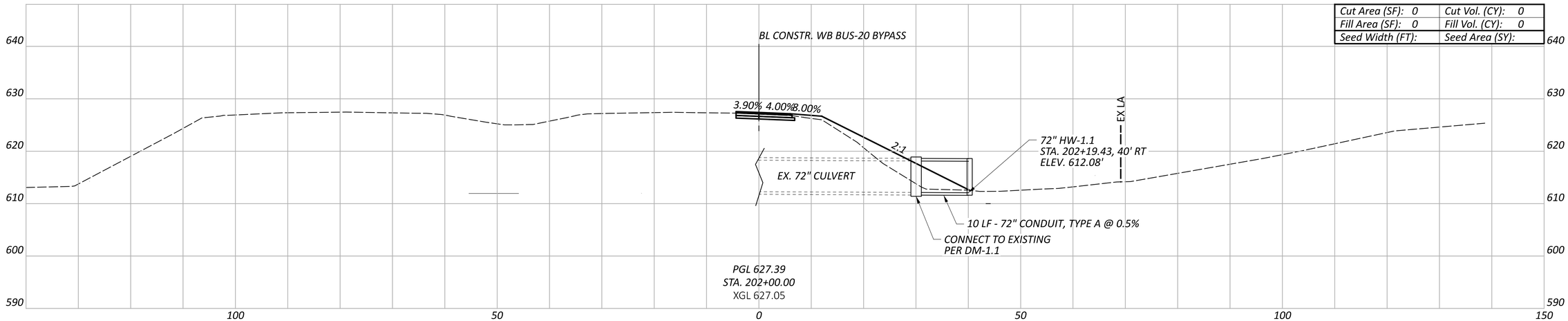

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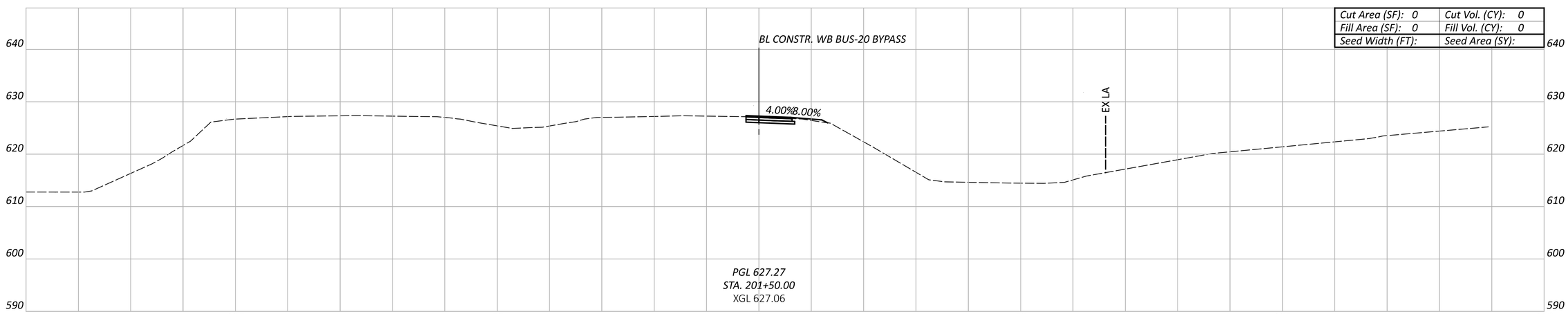

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Seed Width (FT):	Seed Area (SY):

Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS - WB BUS-20 BYPASS
STA. 201+50 TO STA. 202+50

DESIGN AGENCY

DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.111 TOTAL 169

CTY-RTE-SECTION

MODEL: BUS-20 CONN - 201+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:25:05 PM USER: PIA81677
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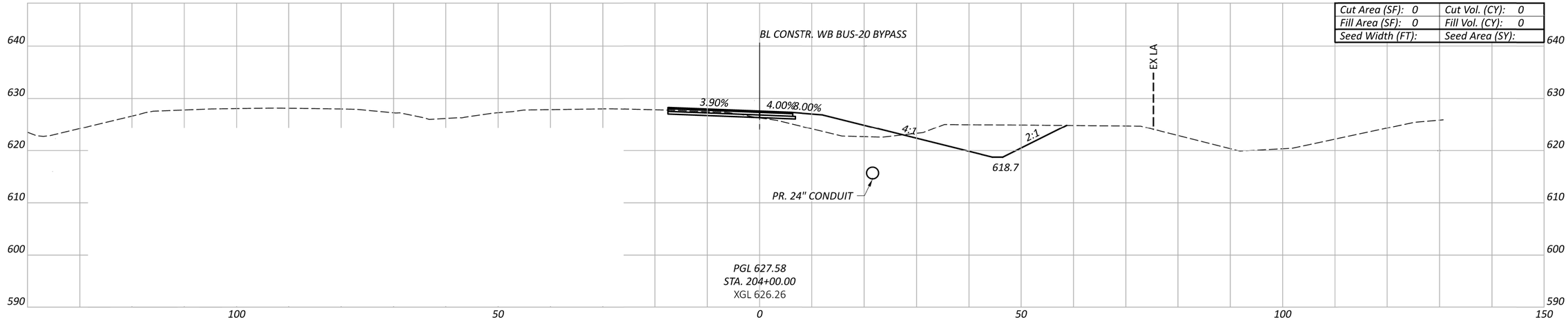

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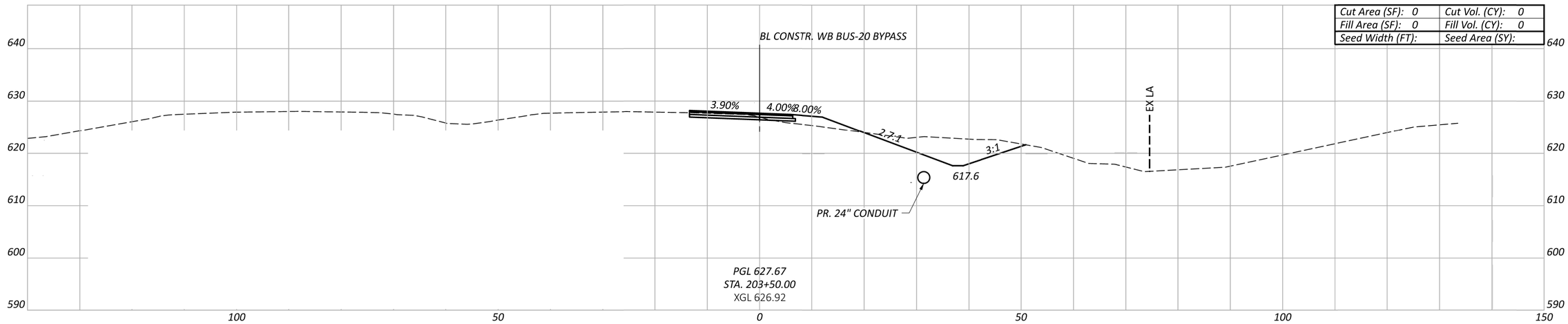

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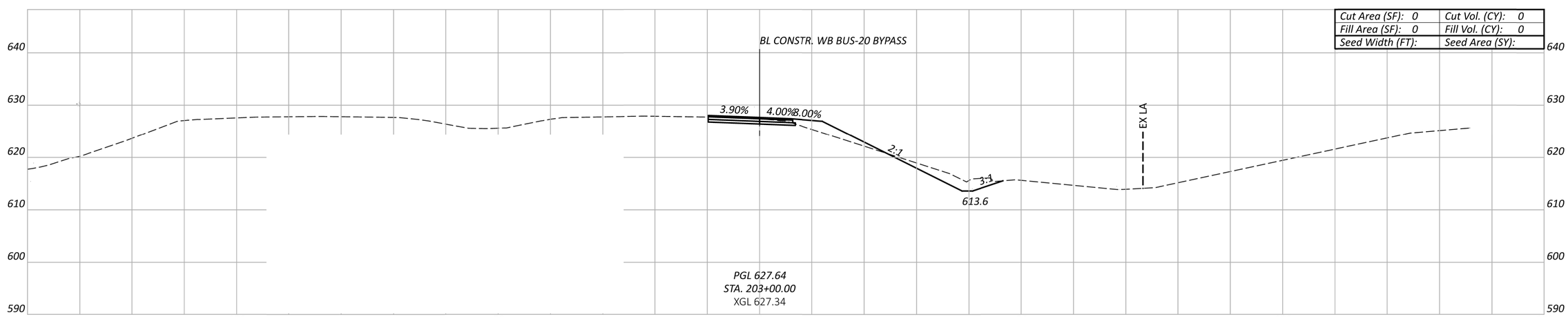

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Seed Width (FT):	Seed Area (SY):

Sheet Totals		
Seeding	Cut	Fill

CTY-RTE-SECTION

MODEL: BUS-20 CONN - 203+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 5:32:57 PM USER: PIA81677
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CROSS SECTIONS - WB BUS-20 BYPASS
STA. 203+00 TO STA. 204+00

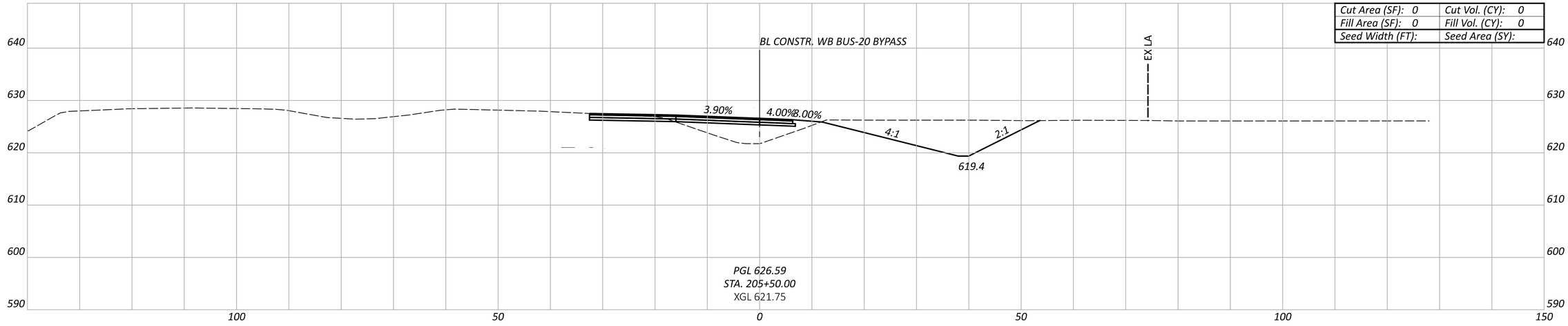
DESIGN AGENCY

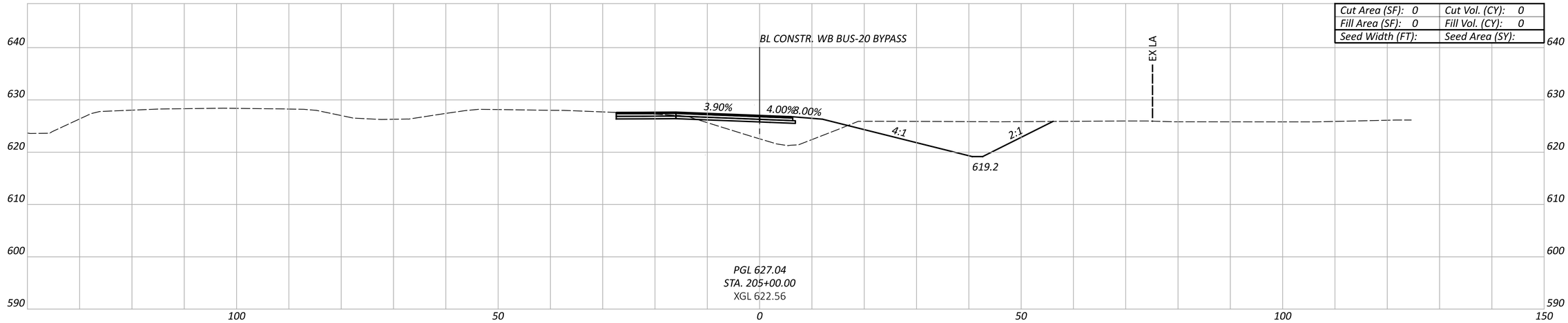
DESIGNER TEH

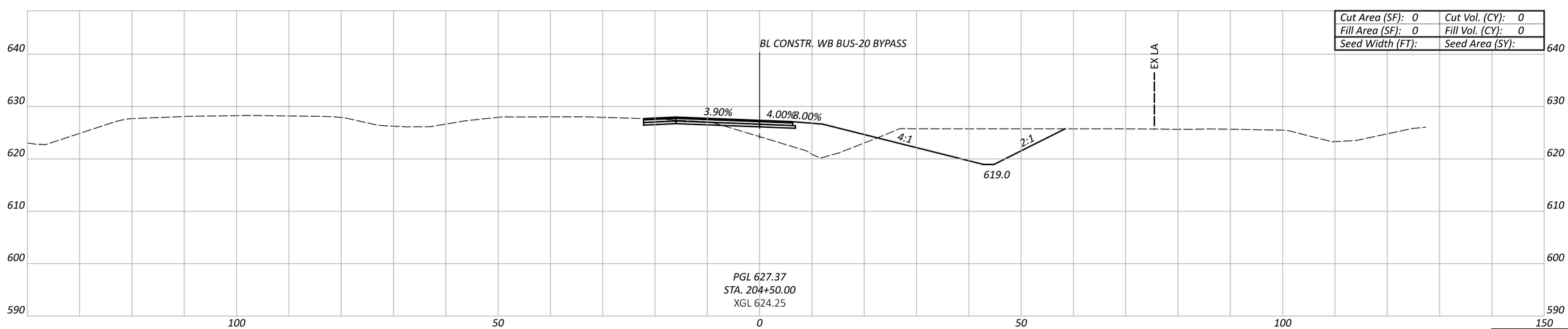
REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.112 TOTAL 169







CROSS SECTIONS - WB BUS-20 BYPASS
STA. 204+50 TO STA. 205+50

CTY-RTE-SECTION

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Sheet Totals		
Seeding	Cut	Fill

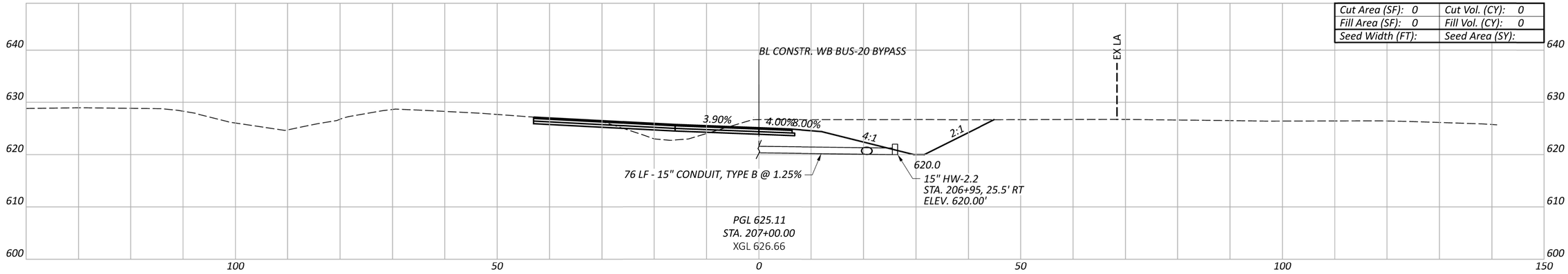
DESIGN AGENCY

DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.113 TOTAL 169



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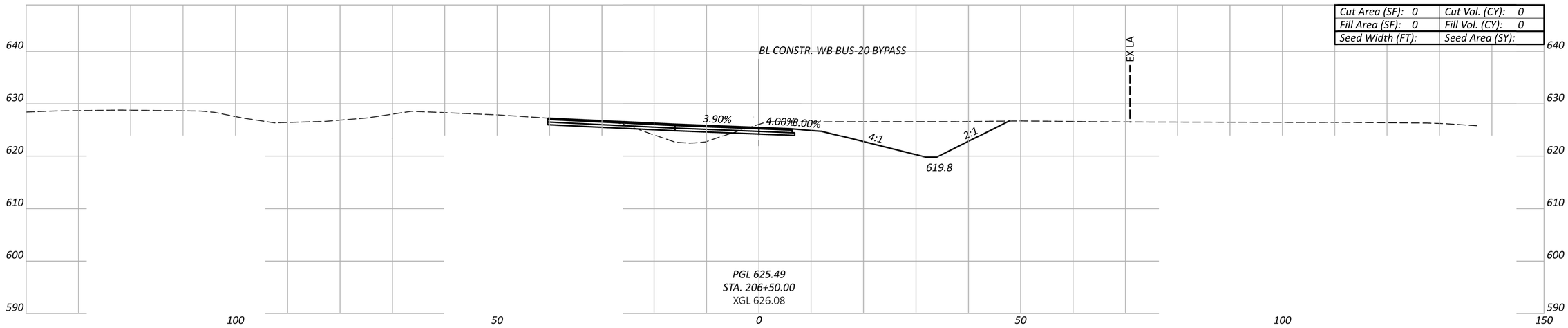

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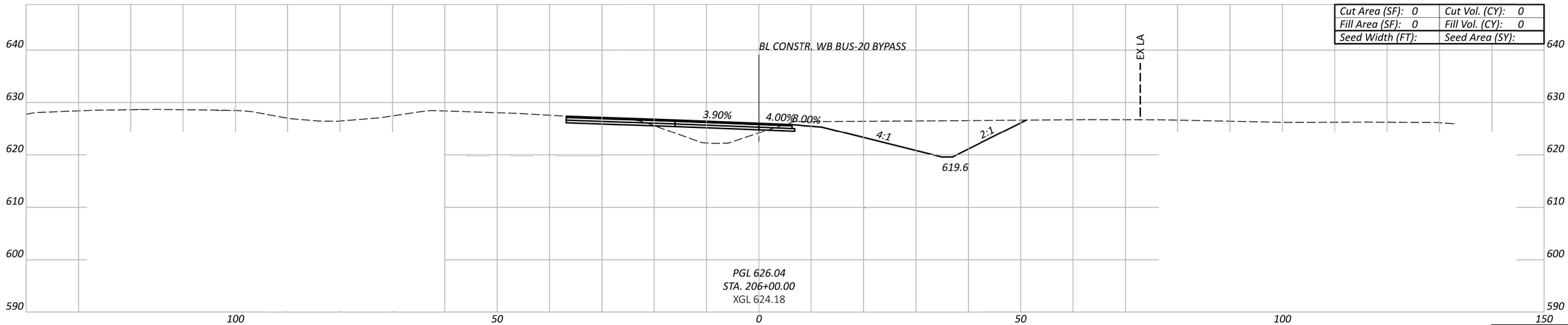

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):

CROSS SECTIONS - WB BUS-20 BYPASS
STA. 206+00 TO STA. 207+00

CTY-RTE-SECTION

MODEL: BUS-20 CONN - 206+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 7:11:24 PM USER: PIA81677
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DESIGN AGENCY

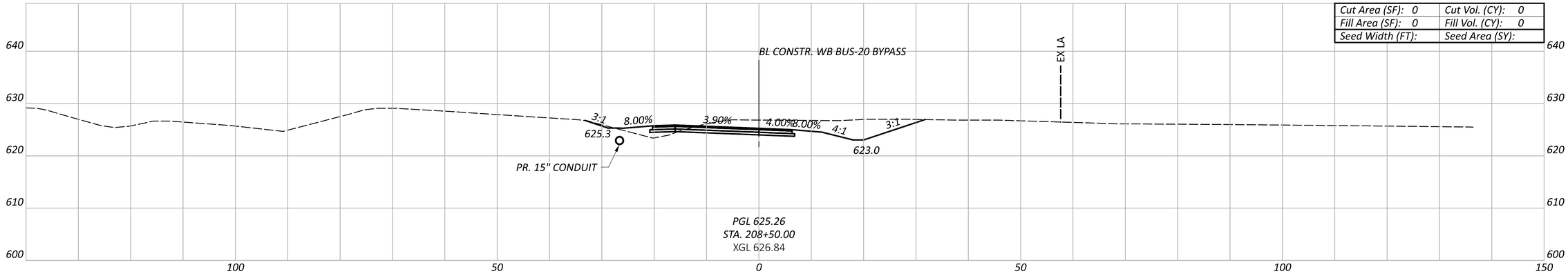
DESIGNER TEH

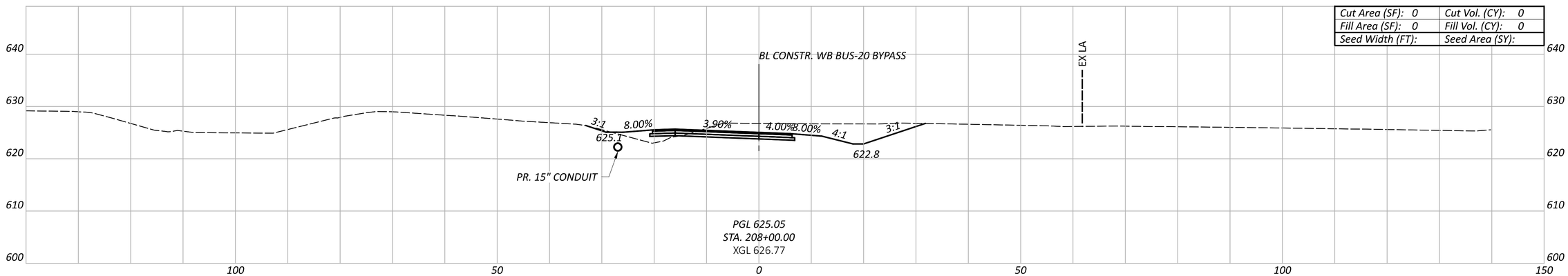
REVIEWER SJP 07/26/24

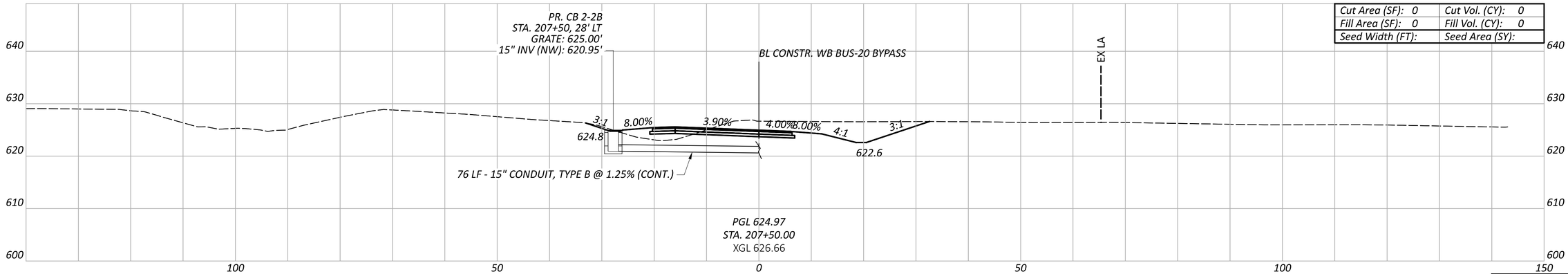
PROJECT ID 112222

Sheet Totals		
Seeding	Cut	Fill

SHEET P.114 TOTAL 169







CTY-RTE-SECTION

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CROSS SECTIONS - WB BUS-20 BYPASS
STA. 207+50 TO STA. 208+50

Sheet Totals		
Seeding	Cut	Fill

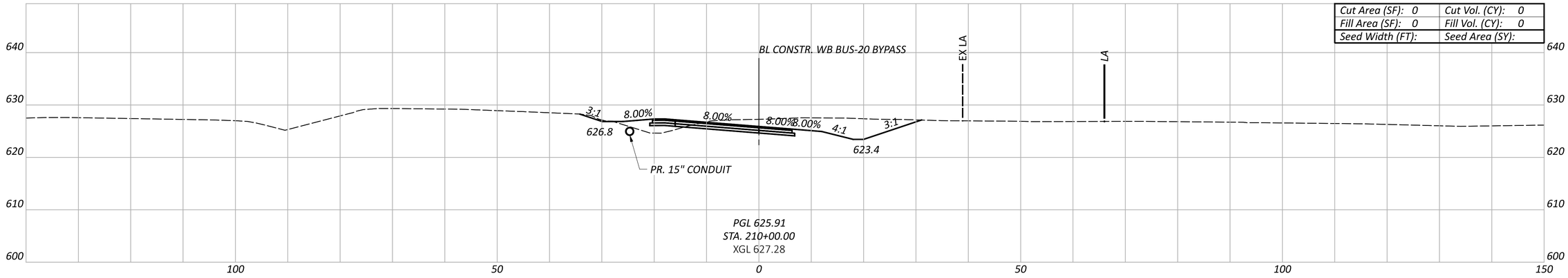
DESIGN AGENCY

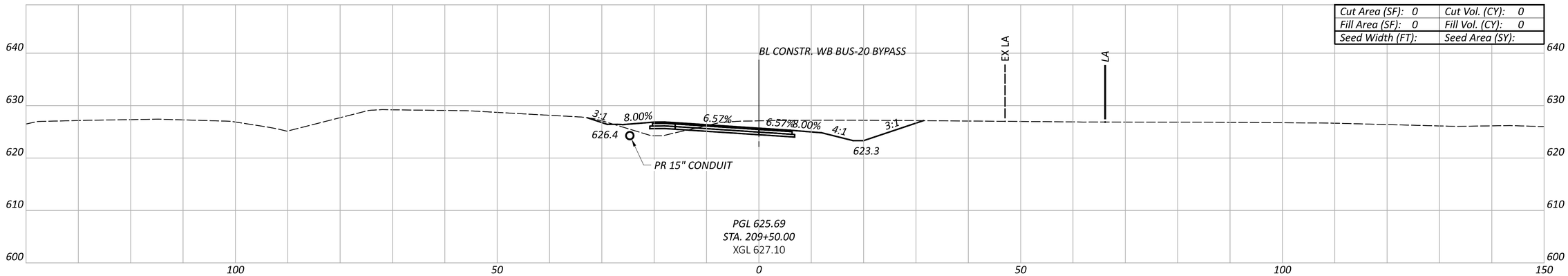
DESIGNER TEH

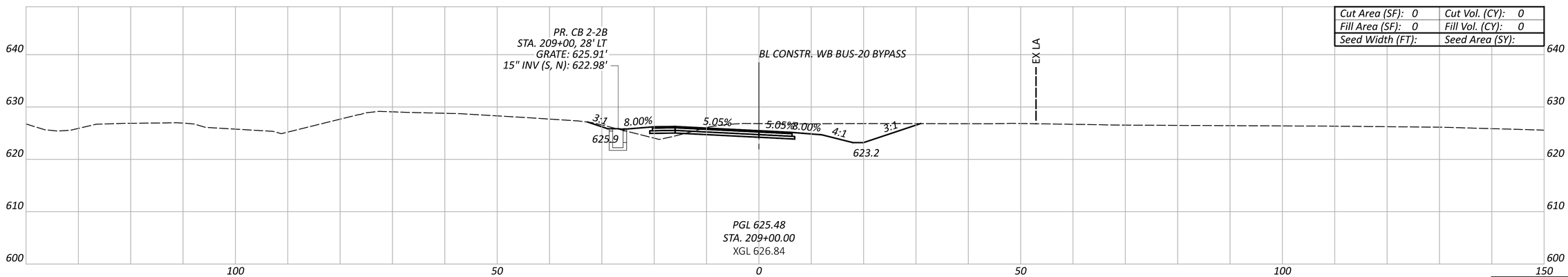
REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.115 TOTAL 169







CROSS SECTIONS - WB BUS-20 BYPASS
STA. 209+00 TO STA. 210+00

CTY-RTE-SECTION

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Sheet Totals		
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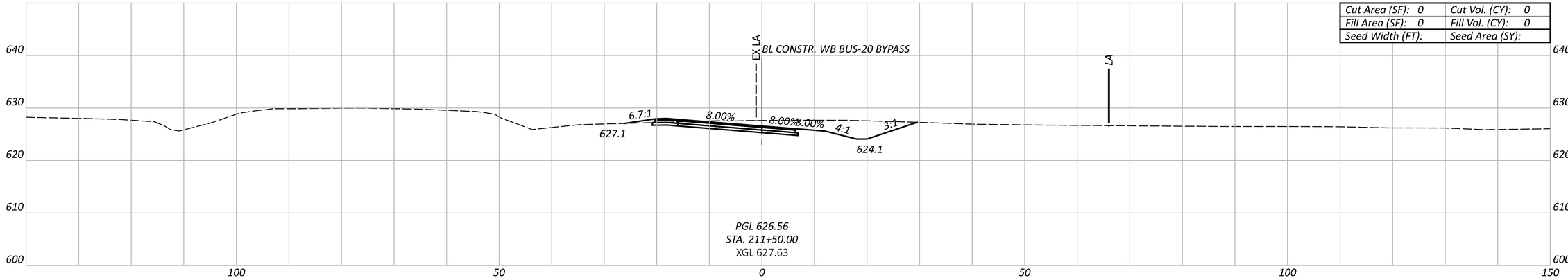
DESIGN AGENCY

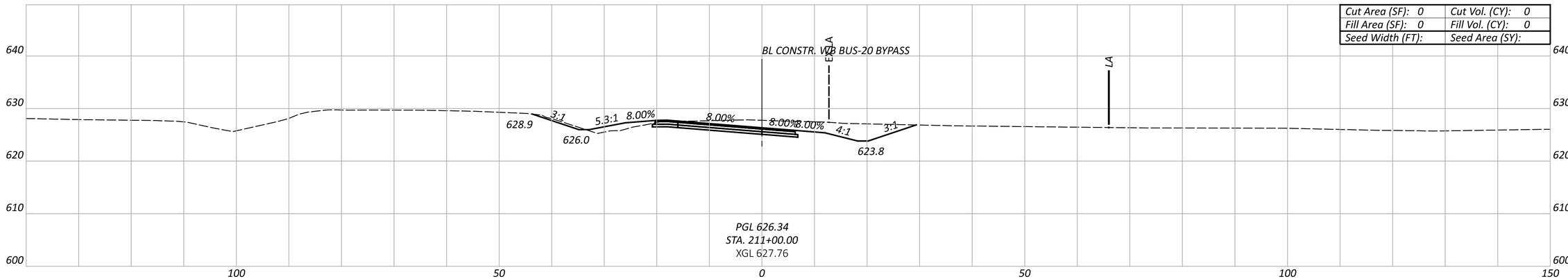
DESIGNER TEH

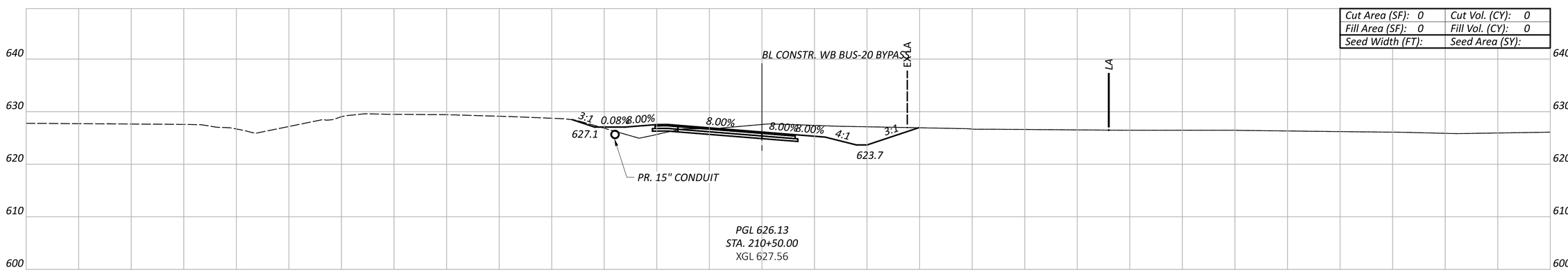
REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.116 TOTAL 169







CROSS SECTIONS - WB BUS-20 BYPASS
STA. 210+50 TO STA. 211+50

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY

DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.117 TOTAL 169

CTY-RTE-SECTION

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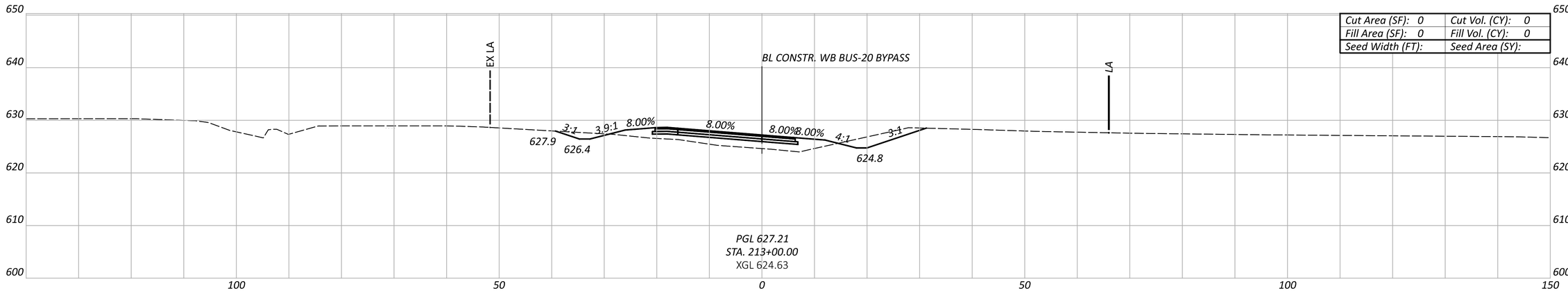

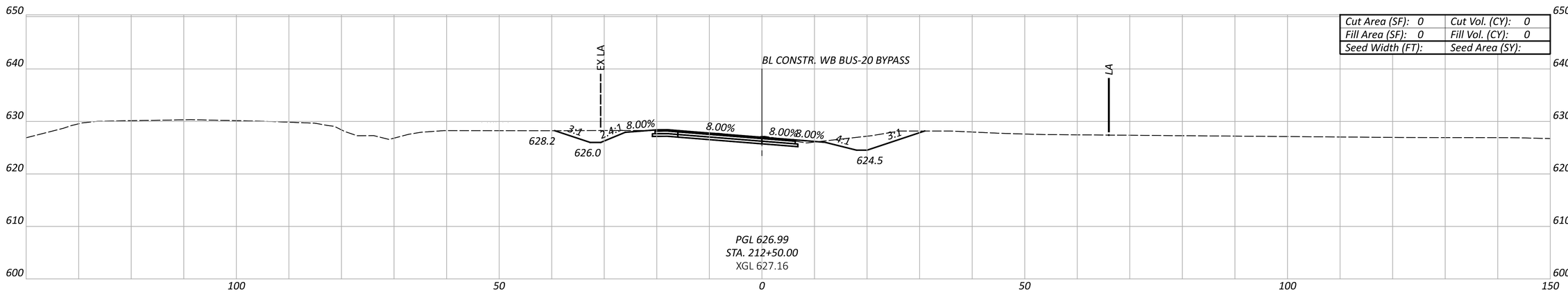

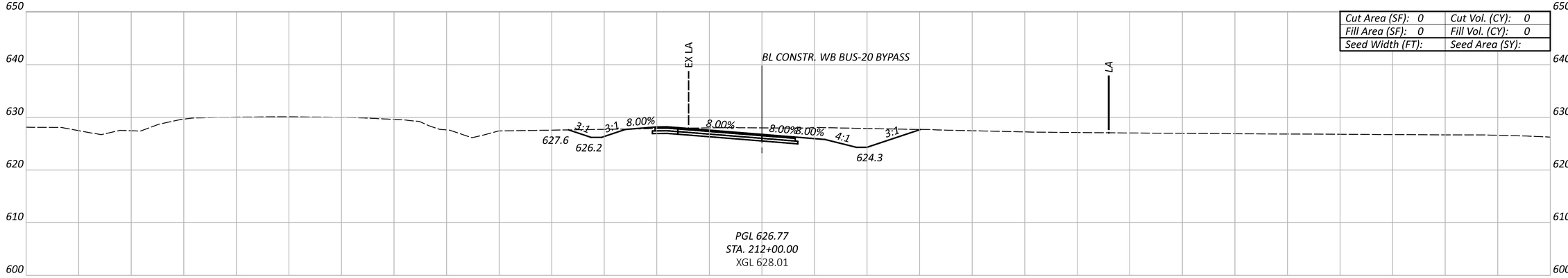

CROSS SECTIONS - WB BUS-20 BYPASS
STA. 212+00 TO STA. 213+00

CTY-RTE-SECTION

MODEL: BUS-20 CONN - 212+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:25:43 PM USER: PIA81677
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Sheet Totals		
Seeding	Cut	Fill

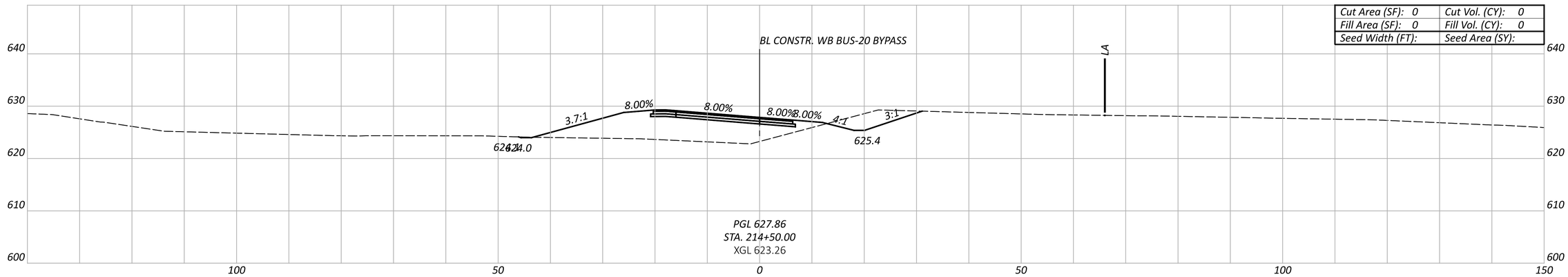
DESIGN AGENCY

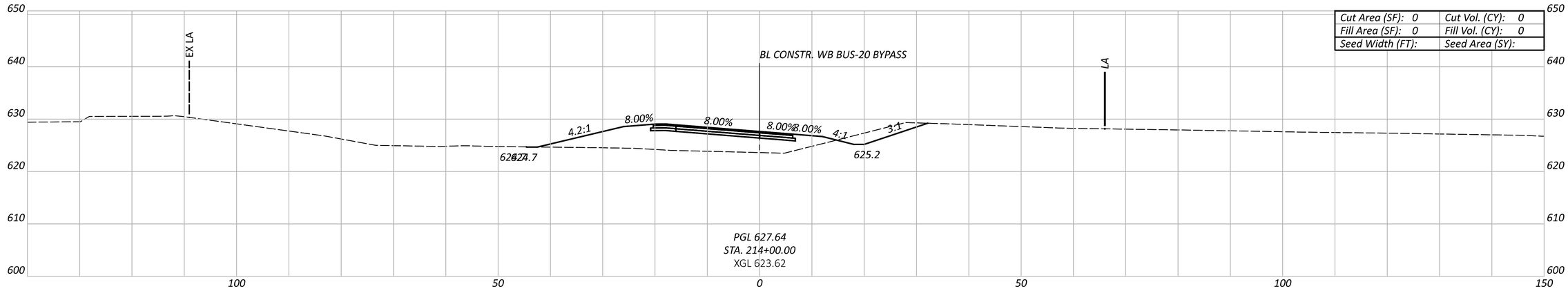
DESIGNER TEH

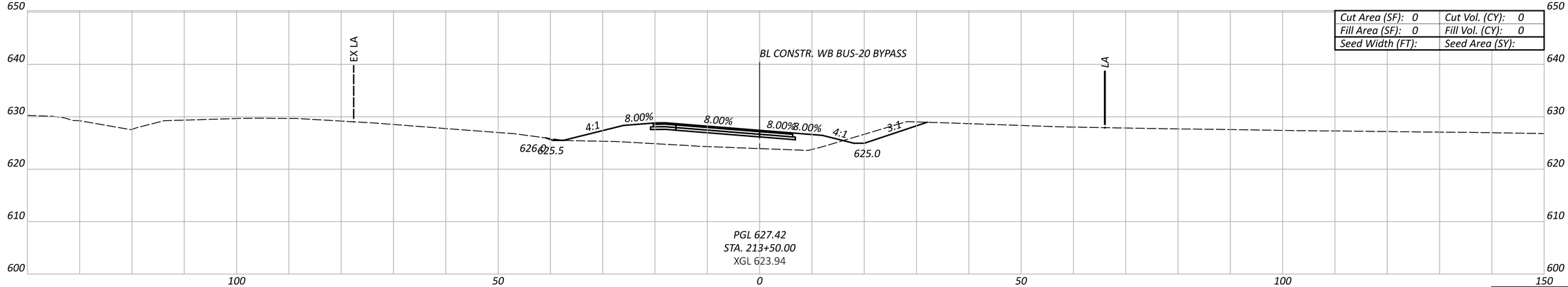
REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.118 TOTAL 169







CTY-RTE-SECTION

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CROSS SECTIONS - WB BUS-20 BYPASS STA. 213+50 TO STA. 214+50

Sheet Totals		
Seeding	Cut	Fill

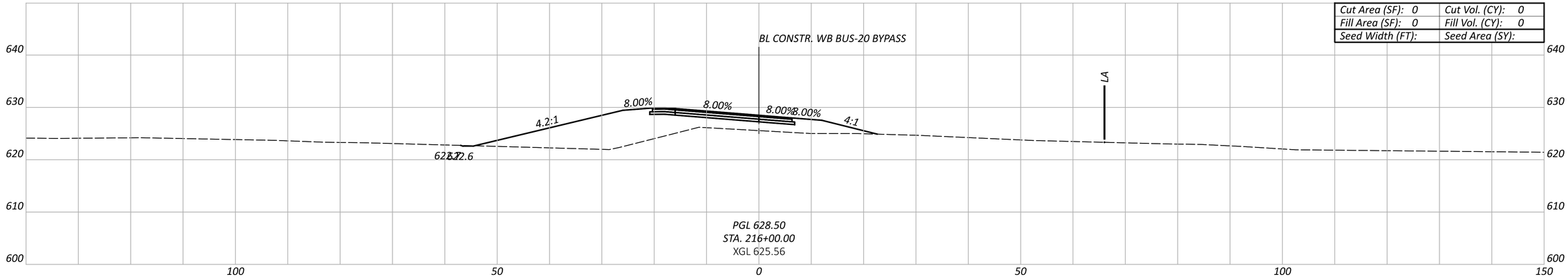
DESIGN AGENCY

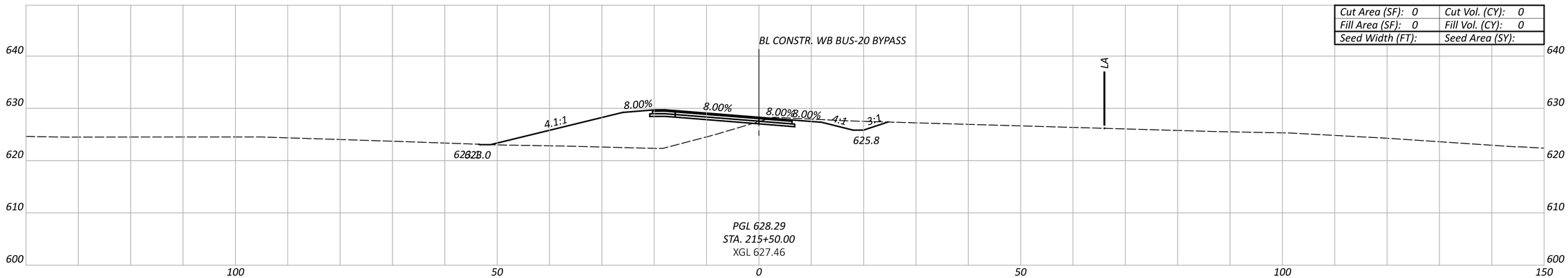
DESIGNER TEH

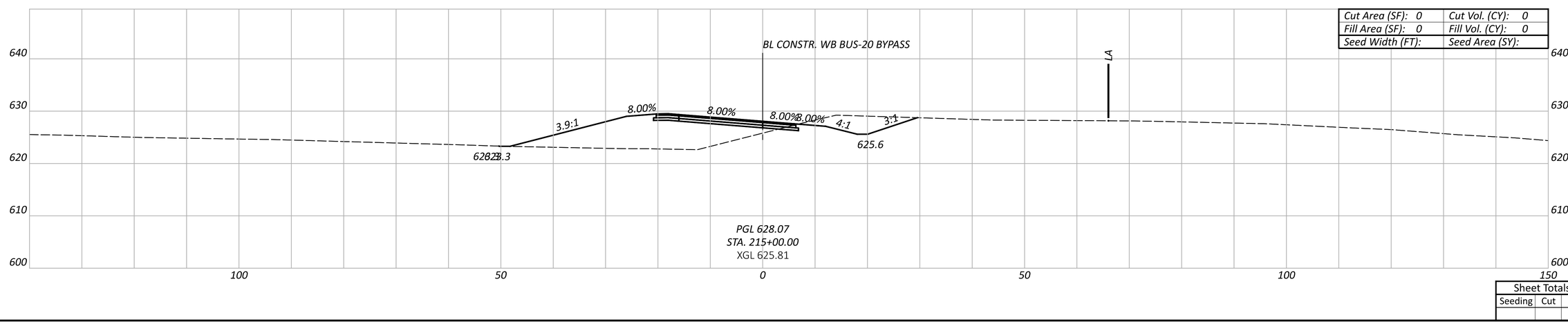
REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.119 TOTAL 169







CROSS SECTIONS - WB BUS-20 BYPASS
STA. 215+00 TO STA. 216+00

CTY-RTE-SECTION

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DESIGN AGENCY

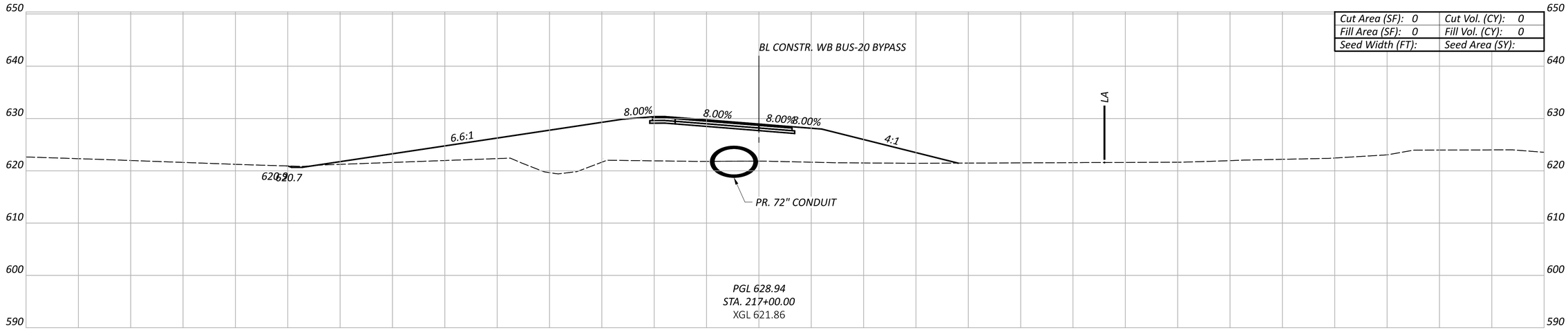
DESIGNER TEH

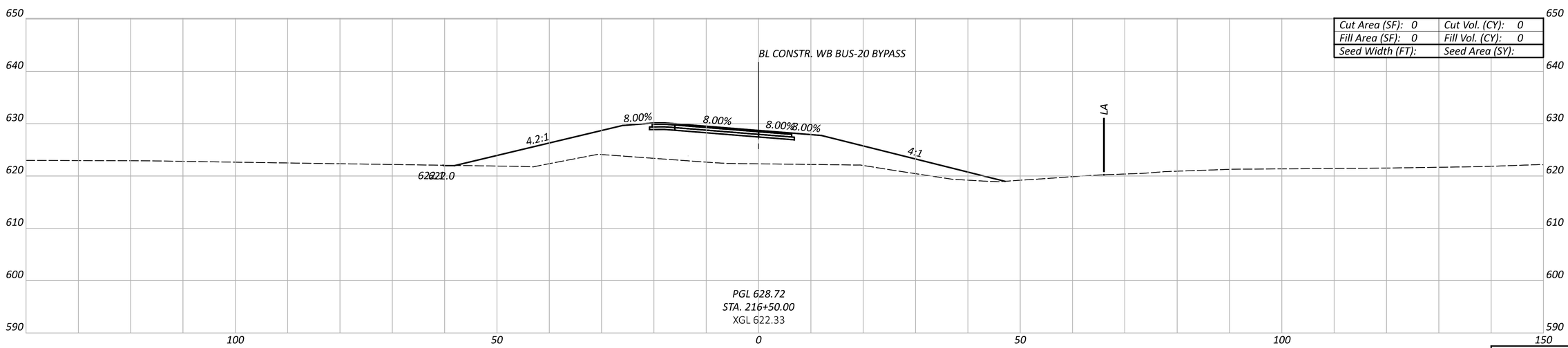
REVIEWER SJP 07/26/24

PROJECT ID 112222

Sheet Totals		
Seeding	Cut	Fill

SHEET P.120 TOTAL 169





CTY-RTE-SECTION

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CROSS SECTIONS - WB BUS-20 BYPASS
STA. 216+50 TO STA. 217+00

DESIGN AGENCY

DESIGNER
TEH

REVIEWER
SJP 07/26/24

PROJECT ID
112222

Sheet Totals		
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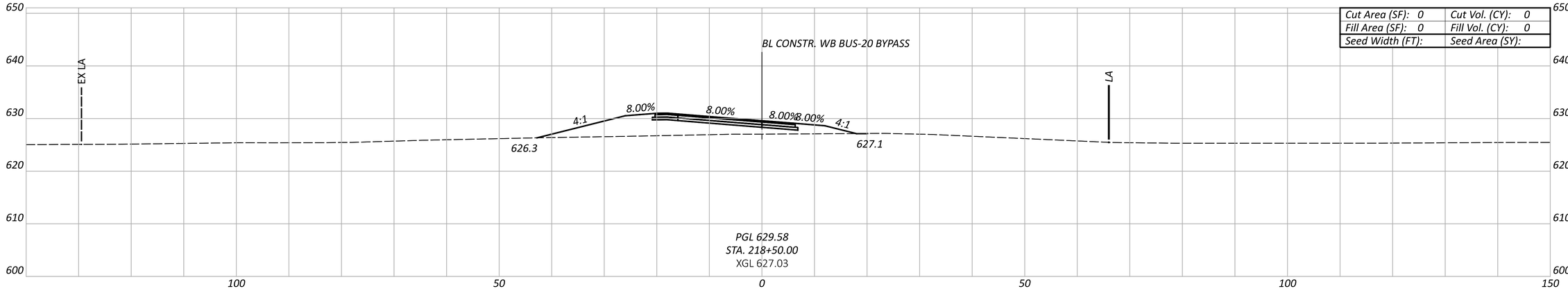
SHEET P.121 TOTAL 169



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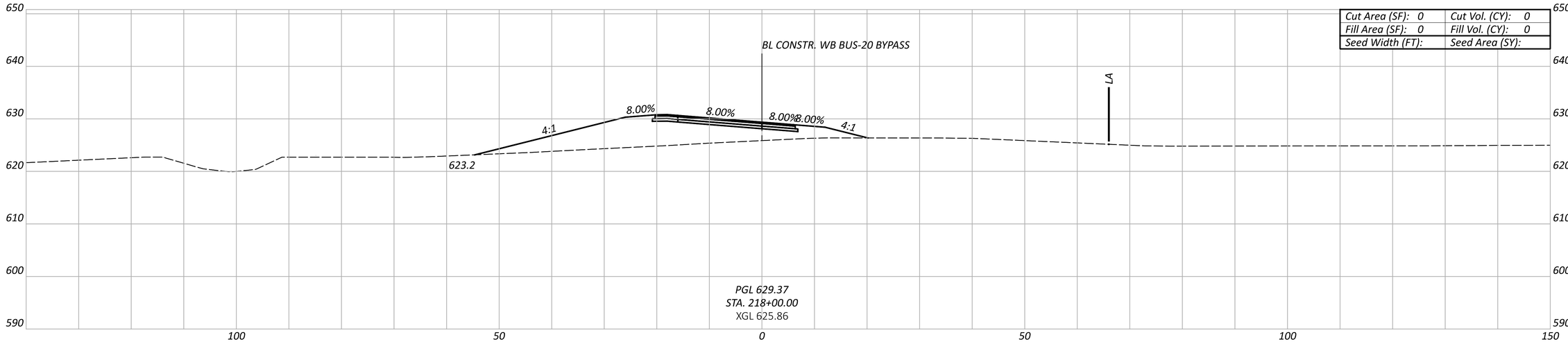

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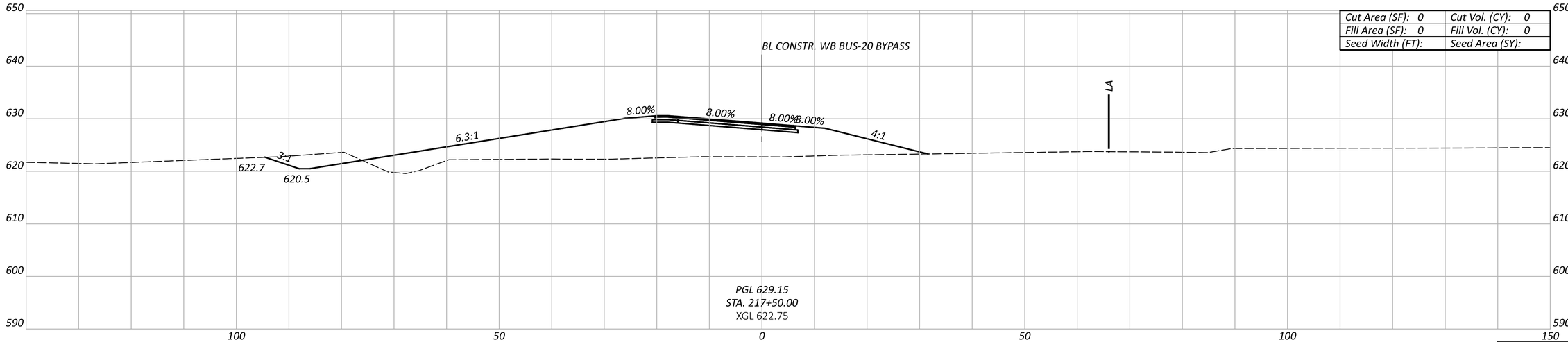

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Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS - WB BUS-20 BYPASS STA. 217+50 TO STA. 218+50

CTY-RTE-SECTION

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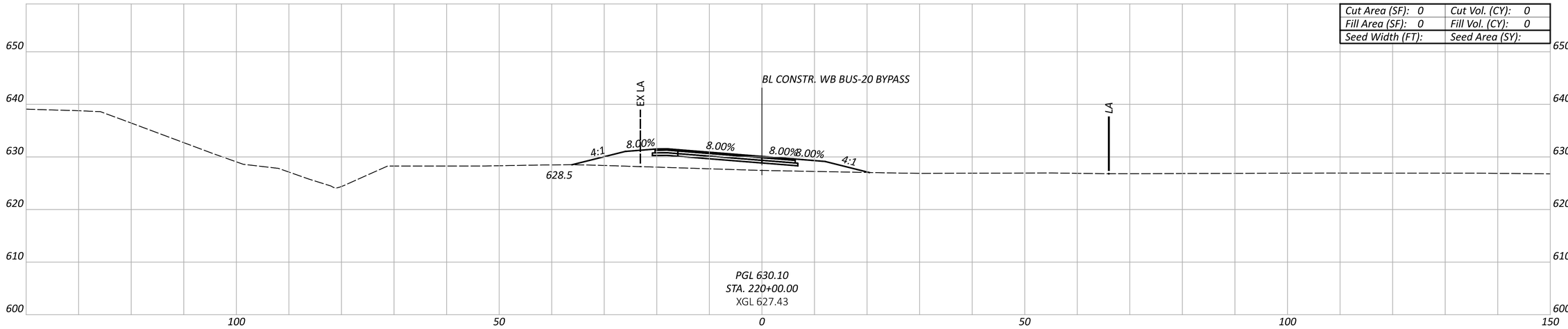
PROJECT ID 112222

SHEET P.122 | TOTAL 169



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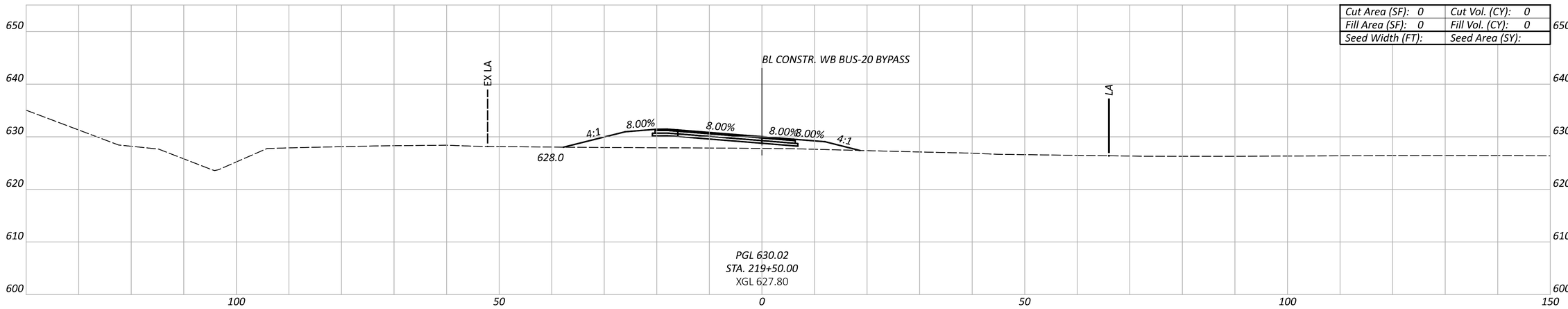

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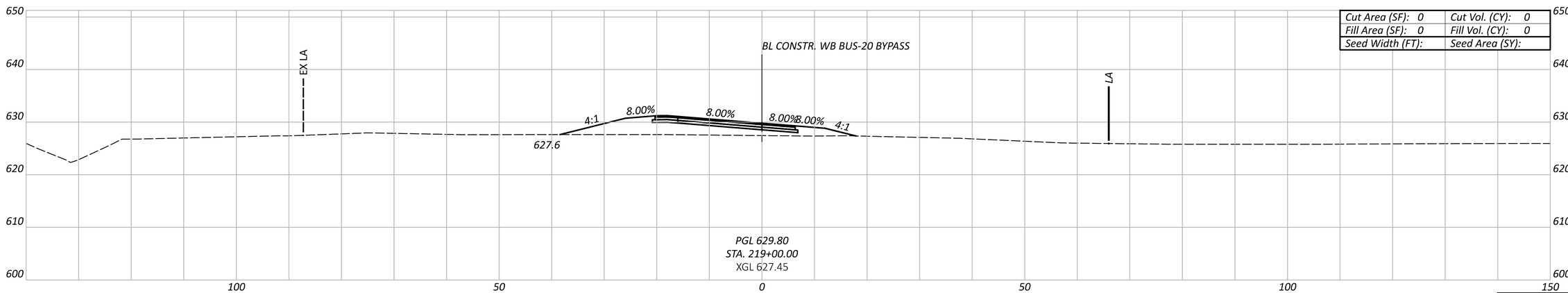

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Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS - WB BUS-20 BYPASS
STA. 219+00 TO STA. 220+00

DESIGN AGENCY

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PROJECT ID
112222

SHEET P.123 | TOTAL 169

CTY-RTE-SECTION

MODEL: BUS-20 CONN - 219+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:26:17 PM USER: PIA81677
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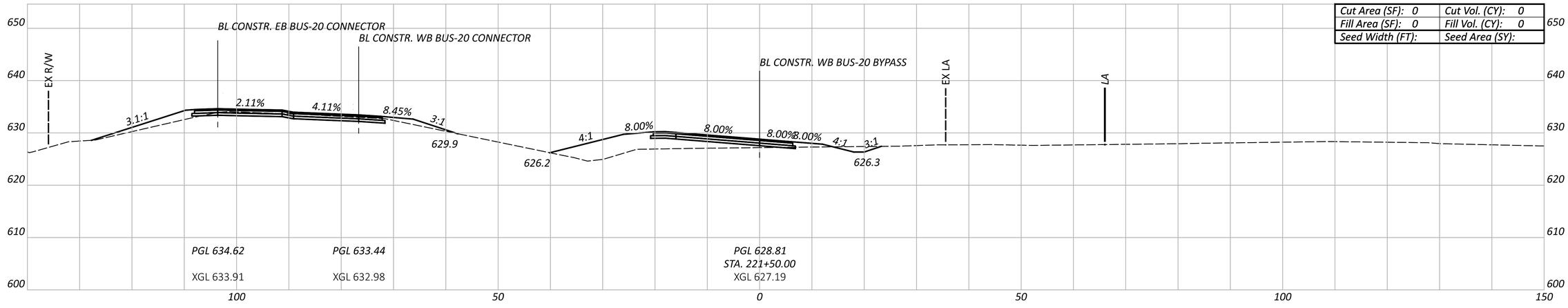

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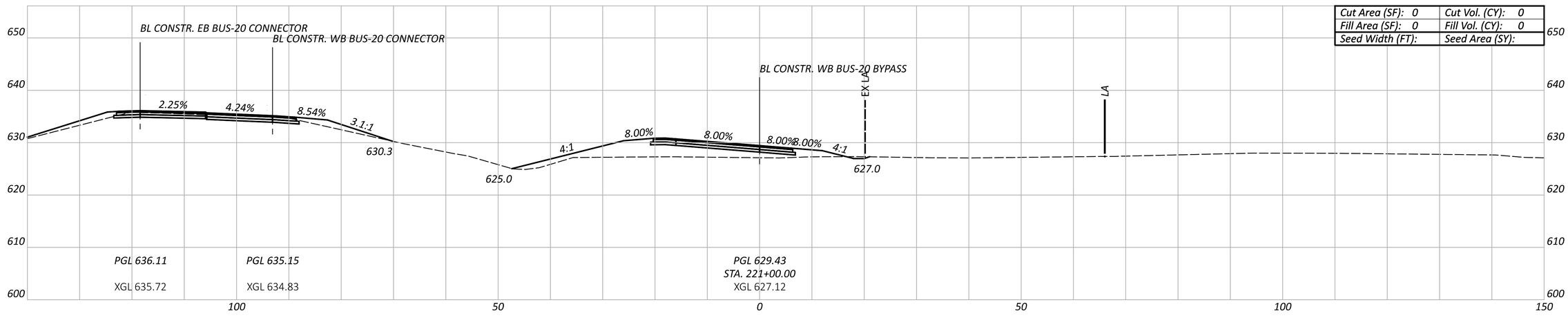

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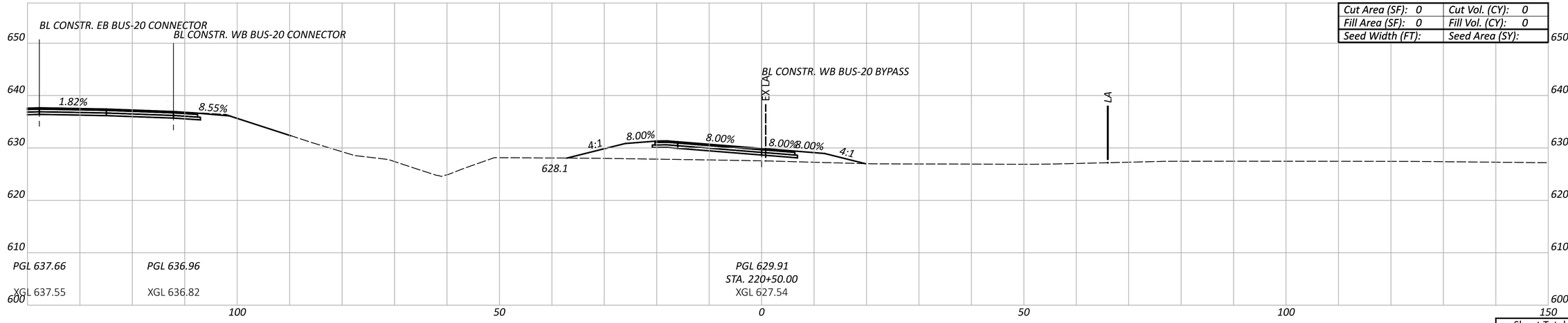

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Sheet Totals		
Seeding	Cut	Fill

CTY-RTE-SECTION

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CROSS SECTIONS - WB BUS-20 BYPASS
STA. 220+50 TO STA. 221+50

DESIGN AGENCY

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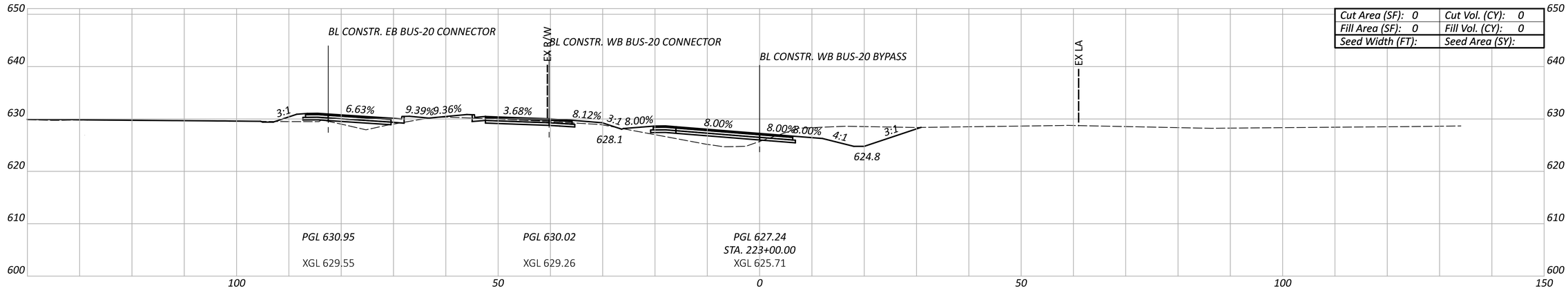
PROJECT ID 112222

SHEET P.124 TOTAL 169



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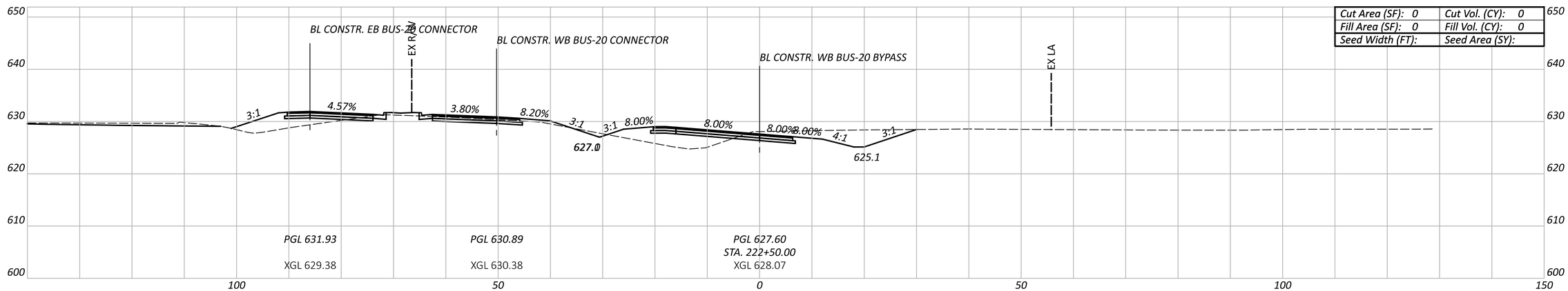

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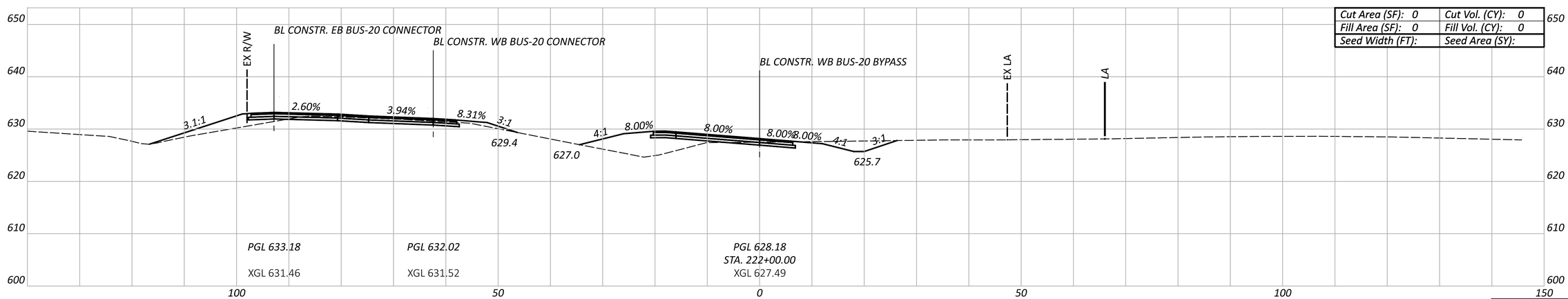

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Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS - WB BUS-20 BYPASS
STA. 222+00 TO STA. 223+00

DESIGN AGENCY

DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.125 TOTAL 169

CTY-RTE-SECTION

MODEL: BUS-20 CONN - 222+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:26:33 PM USER: PIA81677
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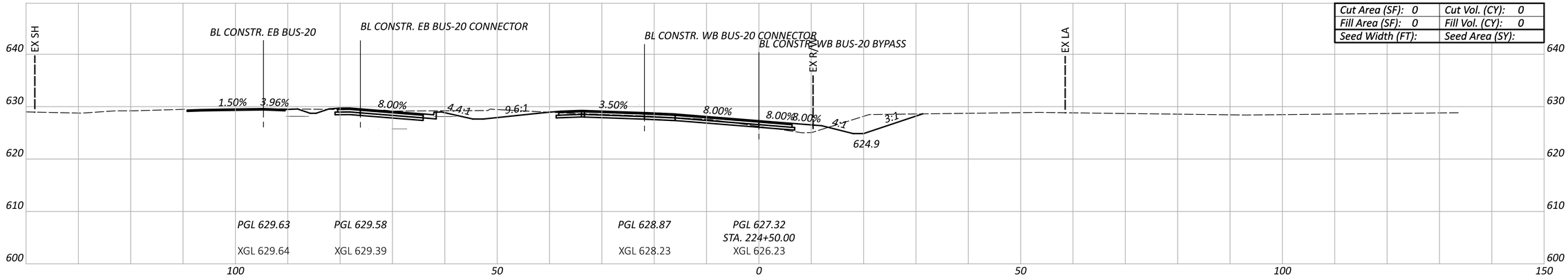

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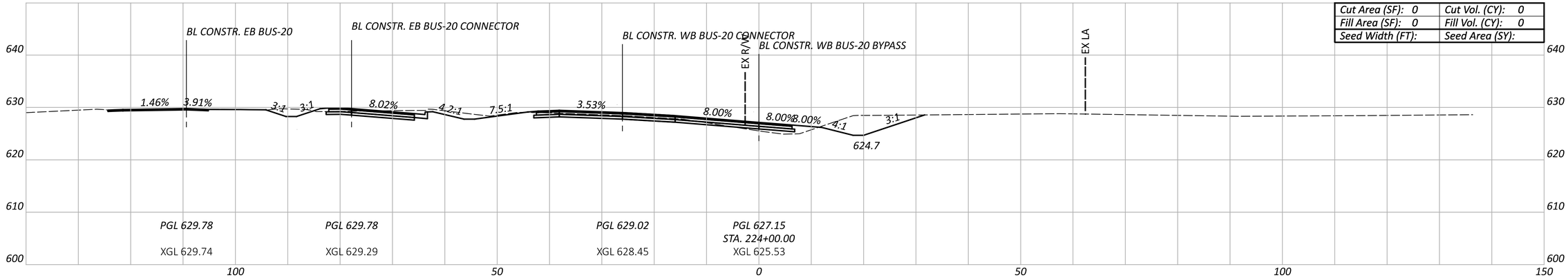

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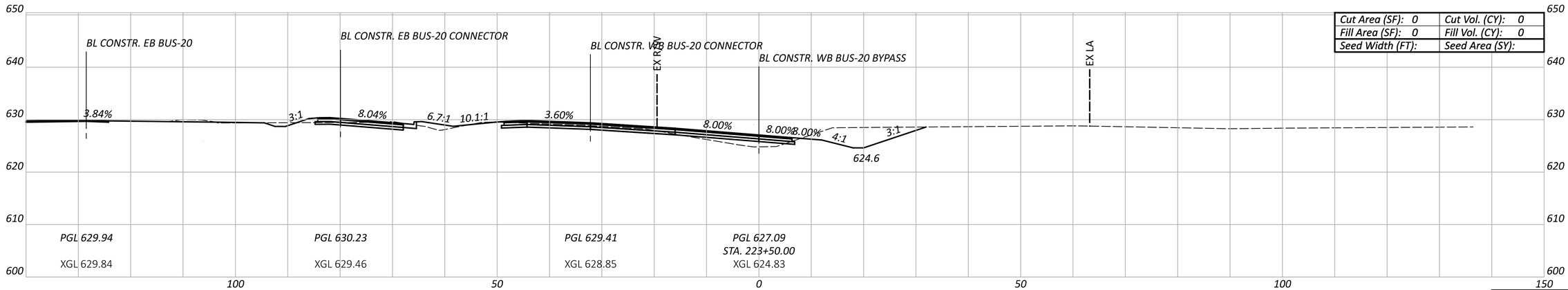

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Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS - WB BUS-20 BYPASS
STA. 223+50 TO STA. 224+50

DESIGN AGENCY

DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.126 TOTAL 169

CTY-RTE-SECTION

MODEL: BUS-20 CONN - 223+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:26:40 PM USER: PIA81677
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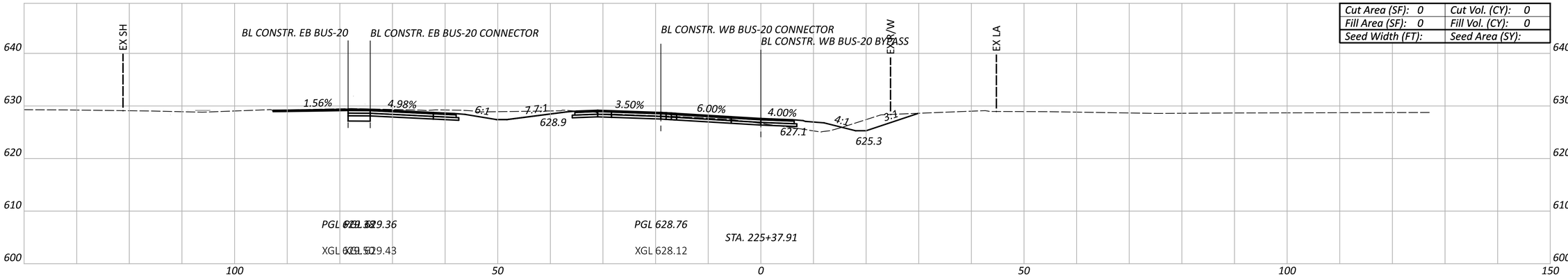

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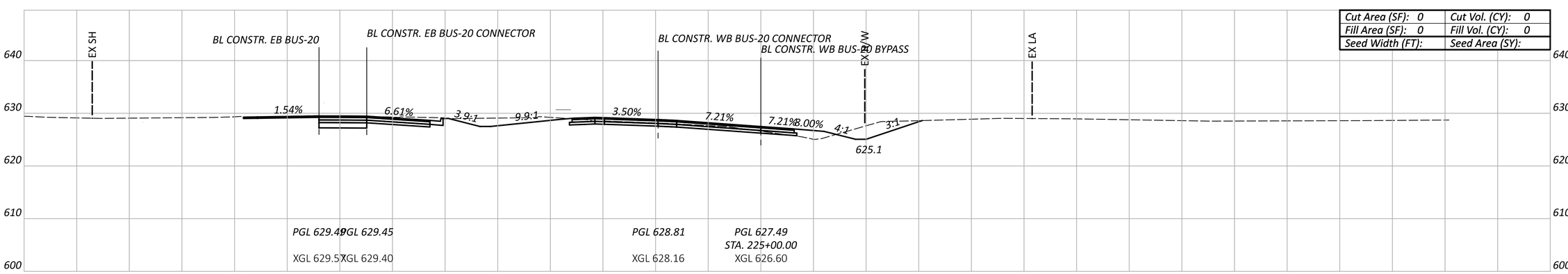

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Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS - WB BUS-20 BYPASS
STA. 225+00 TO STA. 225+37.91

DESIGN AGENCY

DESIGNER TEH

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.127 TOTAL 169

CTY-RTE-SECTION

MODEL: BUS-20 CONN - 225+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:26:48 PM USER: PIA81677
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SUPERELEVATION TABLE							
CURVE WBC-1				P.I. STA = 204+32.13			Dc = 01°15'00"
LEFT SIDE					BASELINE CONTROL		
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	REMARKS
626.89'	0.0001	0.000	0.039	0.0'	200+00.00	(626.89')	PC STA / BEGIN RAMP
628.19'	0.0001	0.624	0.039	16.0'	204+05.66	627.57'	FULL LANE WIDTH
625.94'	0.0000	0.624	0.039	16.0'	208+61.72	625.31'	CS STA

SUPERELEVATION TABLE							
CURVE WBC-2				P.I. STA = 222+09.48			Dc = 07°29'58"
LEFT SIDE					BASELINE CONTROL		
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	REMARKS
625.94'	0.0003	0.624	0.039	16.0'	208+61.72	625.31'	CS STA
627.18'	0.0001	1.280	0.08	16.0'	209+96.72	625.90'	SC STA
628.69'	0.0013	1.280	0.08	16.0'	224+75.27	627.41'	BEGIN TRANSITION
628.58'	0.0000	0.960	0.06	16.0'	225+37.91	627.62'	PT STA

SUPERELEVATION TABLE							
CURVE WB-1				P.I. STA = 342+41.60			Dc = 02°59'59"
RIGHT SIDE					BASELINE CONTROL		
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	REMARKS
631.75'	-0.0002	-0.600	-0.050	12.0'	345+86.59	632.35'	TIE TO ALIGN #9 / BEGIN TRANS. TO EXIST.
627.38'	0.0000	0.474	0.0395	12.0'	348+94.59	626.91'	TIE TO EXISTING

SUPERELEVATION TABLE							
CURVE 701				P.I. STA = 701+90.26			Dc = 05°59'58"
LEFT SIDE					BASELINE CONTROL		
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	REMARKS
628.97'	-0.0001	-0.180	-0.015	12.0'	700+00.00	629.15'	PT STA / BEGIN ALIGNMENT
628.58'	-0.0005	-0.960	-0.08	12.0'	701+66.56	629.54'	SC STA
629.48'	-0.0005	-0.960	-0.08	12.0'	703+14.10	630.44'	BEGIN TRANSITION
633.36'	-0.0001	-0.192	-0.016	12.0'	704+78.10	633.55'	PT STA
636.72'	-0.0003	-0.192	-0.016	12.0'	706+11.68	636.91'	BEGIN TRANSITION TO EXISTING
638.15'	0.0000	-0.050	-0.0042	12.0'	706+62.93	638.20'	POT STA / END ALIGNMENT

NOTES:

1. SEE SCHEMATIC FOR ADDITIONAL CURVE DETAILS

SUPERELEVATION TABLES

CTY-RTE-SECTION

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DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135
DESIGNER
TEH
REVIEWER
SJP 07/26/24
PROJECT ID
112222
SHEET P.128 TOTAL 169

SUPERELEVATION TABLE												
CURVE 801					P.I. STA = 802+77.58					Dc = 02°36'16"		
LEFT SIDE					BASELINE CONTROL							
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	REMARKS
653.34'	0.0005	0.546	0.046	12.0'	800+00.00	652.79'	12.0'	-0.046	-0.55'	-0.0005	652.25'	PC STA / BEGIN ALIGNMENT / MATCH EXISTING
651.37'	0.0001	0.273	0.02	13.6'	800+90.00	651.10'	13.6'	-0.020	-0.27'	-0.0001	650.82'	
639.58'	0.0005	0.400	0.02	20.0'	804+00.00	639.19'						
637.64'	0.0000	-0.400	-0.02	20.0'	804+43.58	638.04'						TRANSITION OUT OF ROUNDABOUT

SUPERELEVATION TABLE							
CURVE 901			P.I. STA = 904+20.55			Dc = 03°28'28"	
RIGHT SIDE					BASELINE CONTROL		
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	REMARKS
636.78'	0.0001	0.311	0.020	15.5'	901+00.00	636.47'	BEGIN TRANSITION
634.56'	-0.0003	-0.600	-0.05	12.0'	903+10.00	635.16'	FULL SUPERELEVATION
630.67'	0.0000	-0.960	-0.08	12.0'	905+02.14	631.63'	PT STA / END ALIGNMENT

SUPERELEVATION TABLE							
CURVE 1601			P.I. STA = 1603+71.60			Dc = 03°16'27"	
RIGHT SIDE					BASELINE CONTROL		
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	REMARKS
628.89'	0.0023	0.374	0.031	12.0'	1600+00.00	628.51'	PT STA / MATCH EXISTING
628.95'	0.0001	0.420	0.035	12.0'	1600+13.66	628.53'	FULL SUPERELEVATION
636.03'	0.0006	-0.060	0.035	12.0'	1607+11.95	635.61'	START TRANSITION TO EXISTING
638.15'	0.0000	-0.060	0.0233	12.0'	1607+70.35	637.87'	PT STA / MATCH EXISTING

SUPERELEVATION TABLE							
CURVE 1001			P.I. STA = NA			Dc = NA	
RIGHT SIDE					BASELINE CONTROL		
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	REMARKS
636.62'	0.0005	0.869	0.072	12.0'	1000+00.00	635.75'	BEGIN ALIGMENT / MATCH EXIST.
638.04'	0.0005	1.132	0.0755	15.0'	1001+50.00	636.91'	
637.53'	0.0000	0.320	0.02	16.0'	1002+90.00	637.21'	ROUNDABOUT EXIT

NOTES:

1. SEE SCHEMATIC FOR ADDITIONAL CURVE DETAILS
2. CURVE 1001 NOT A CURVE, HOWEVER, TABLE REQUIRED FOR TRANSITION TO EXISTING

SUPERELEVATION TABLES

CTY-RTE-SECTION

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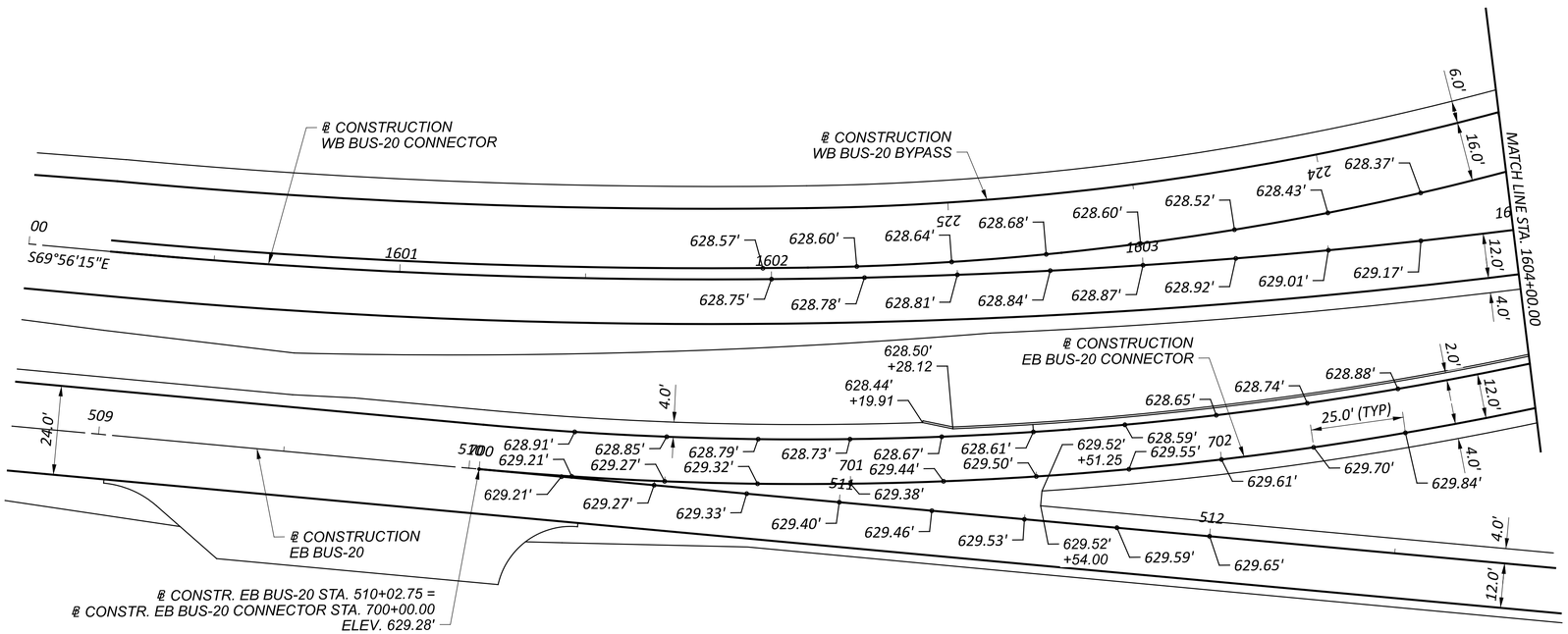
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135
DESIGNER TEH
REVIEWER SJP 07/26/24
PROJECT ID 112222



HORIZONTAL
SCALE IN FEET
0 10 20 40

INTERSECTION DETAILS
BUS-20 CROSSOVER (1 OF 2)

CTY-RTE-SECTION

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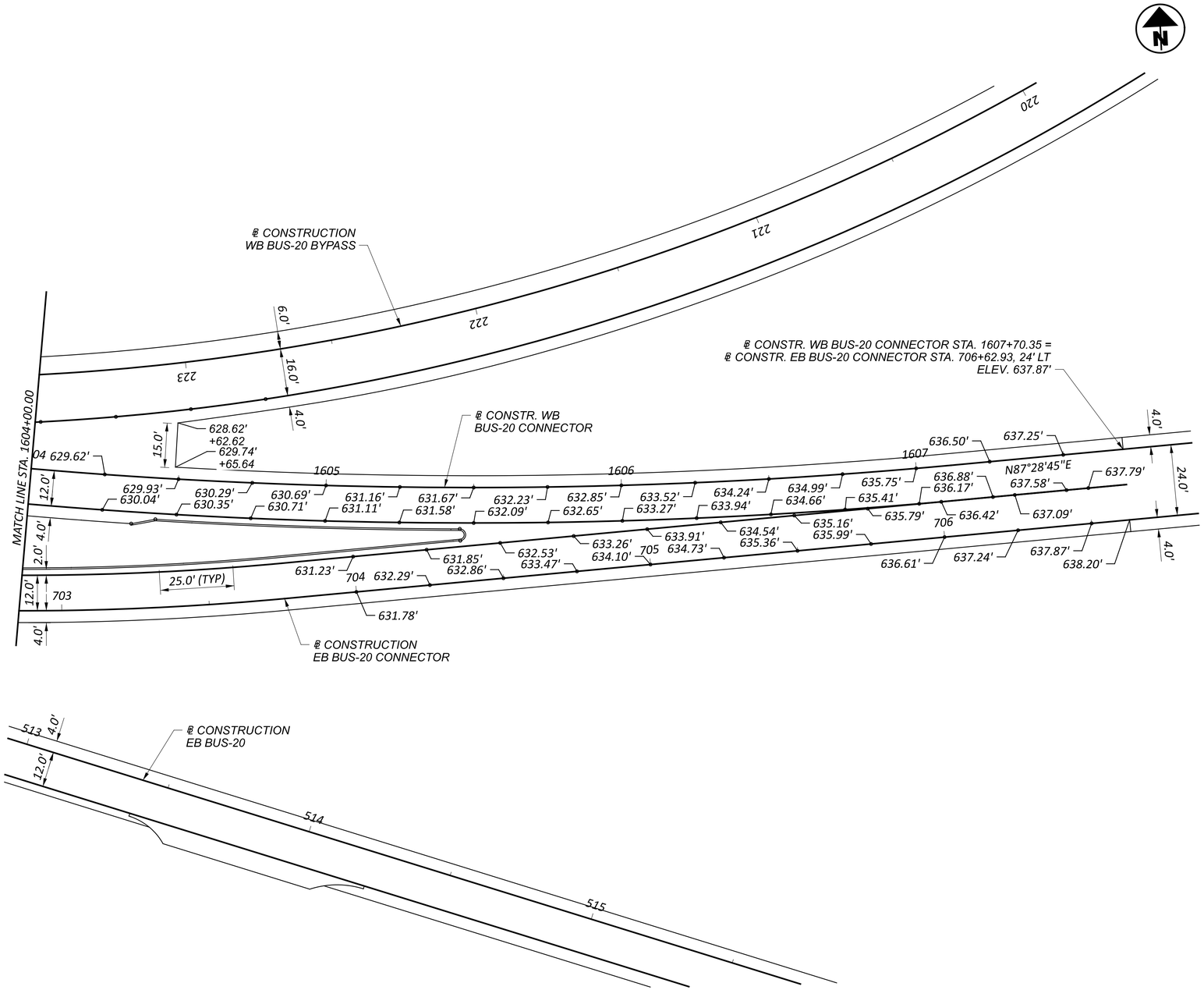
112222

SHEET P.130 | TOTAL 169



HORIZONTAL
SCALE IN FEET
0 10 20 40

INTERSECTION DETAILS
BUS-20 CROSSOVER (2 OF 2)

CTY-RTE-SECTION

MODEL: Interchange Details - Plan 2 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 7:19:43 PM USER: PIA81677
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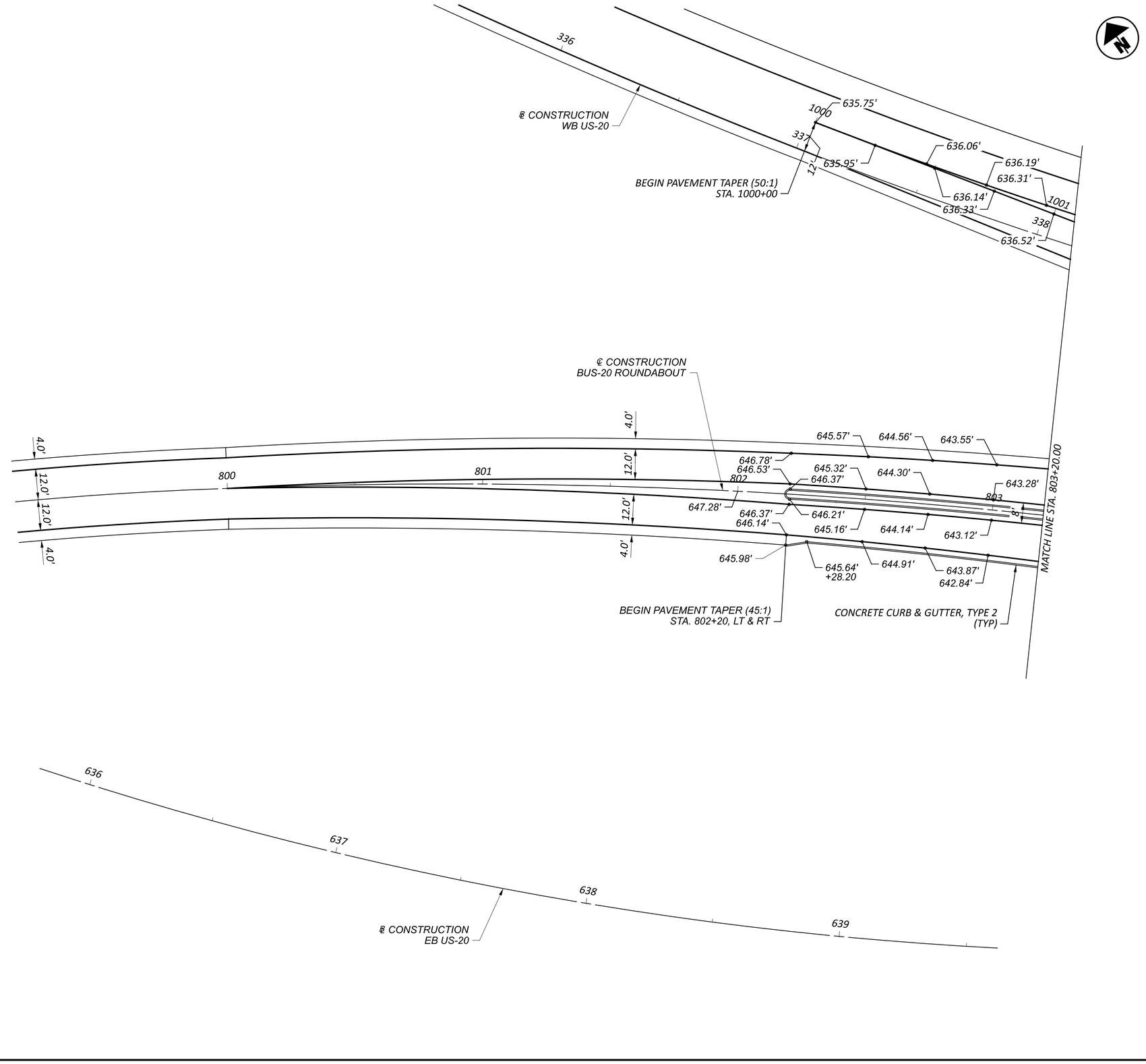
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
SMS

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.131 | TOTAL 169



HORIZONTAL
SCALE IN FEET
0 10 20 40

INTERSECTION DETAILS
ROUNDABOUT APPROACH (1 OF 3)

CTY-RTE-SECTION

MODEL: Interchange Details - Plan 5 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 7:19:56 PM USER: PIA81677
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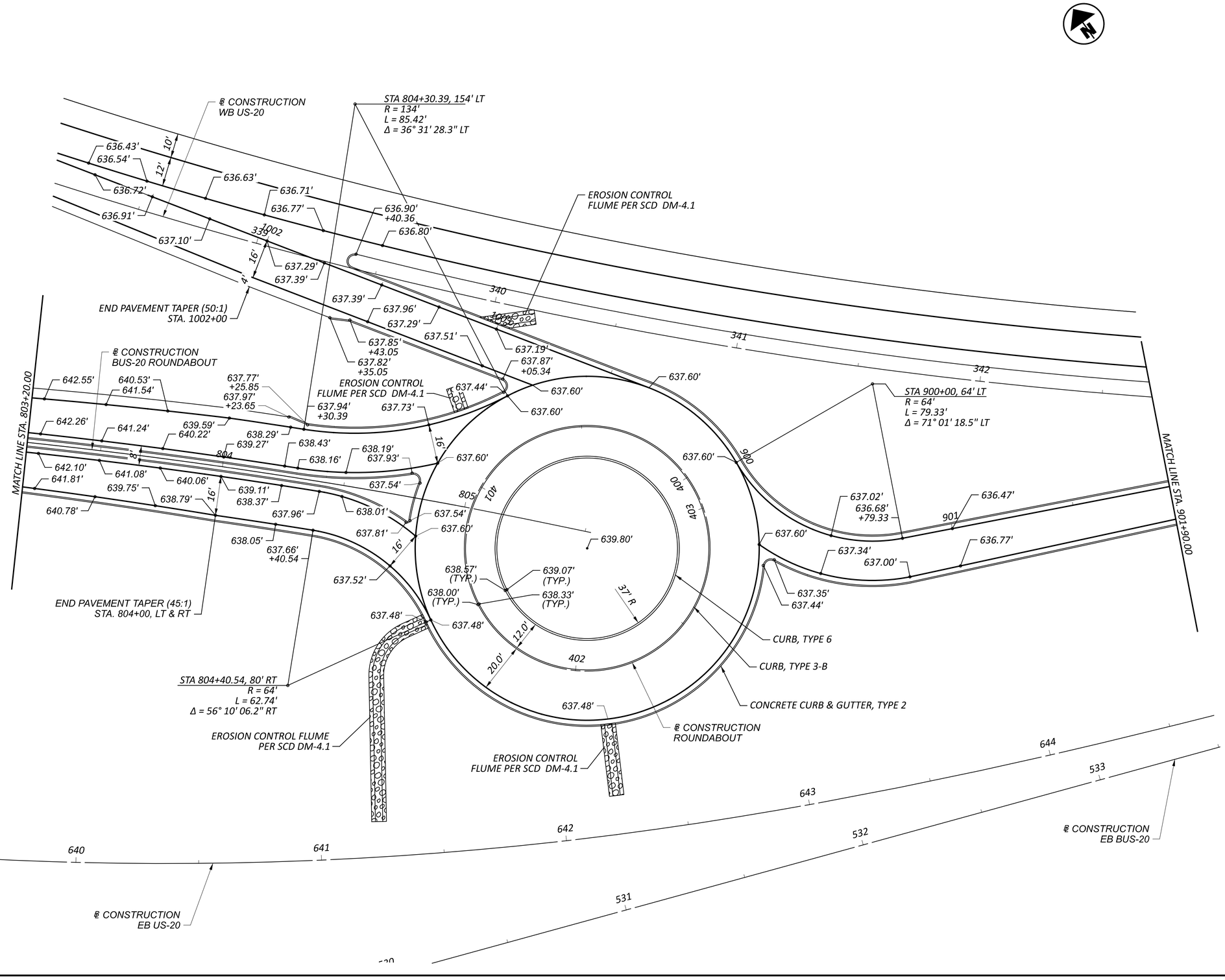
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
SMS

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.132 | TOTAL 169



HORIZONTAL SCALE IN FEET
0 10 20 40

INTERSECTION DETAILS
ROUNDABOUT APPROACH (2 OF 3)

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
SMS

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.133 TOTAL 169

CTY-RTE-SECTION

MODEL: Interchange Details - Plan 3 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 7:20:11 PM USER: PIA81677
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MODEL: Interchange Details - Plan 4 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 7:20:24 PM USER: PIA81677
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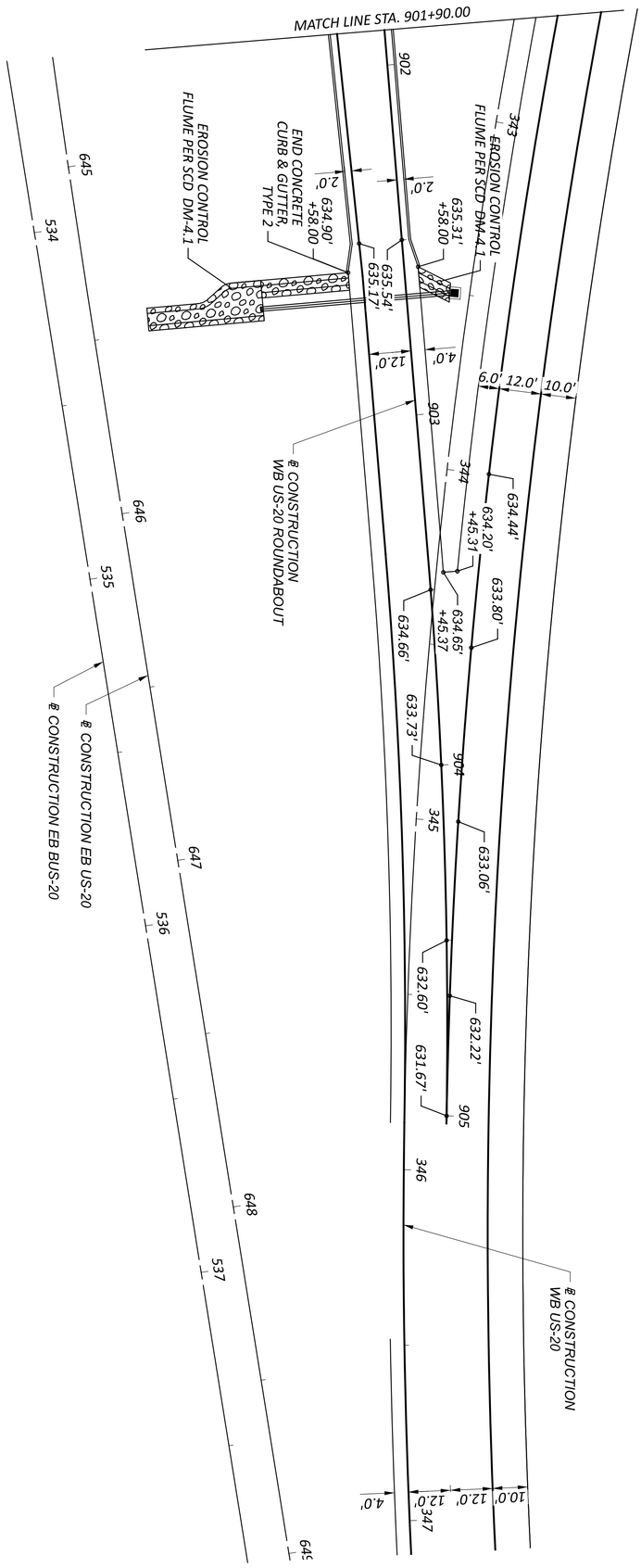


DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135
DESIGNER SMS
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.134 TOTAL 169

INTERSECTION DETAILS
ROUNDABOUT APPROACH (3 OF 3)

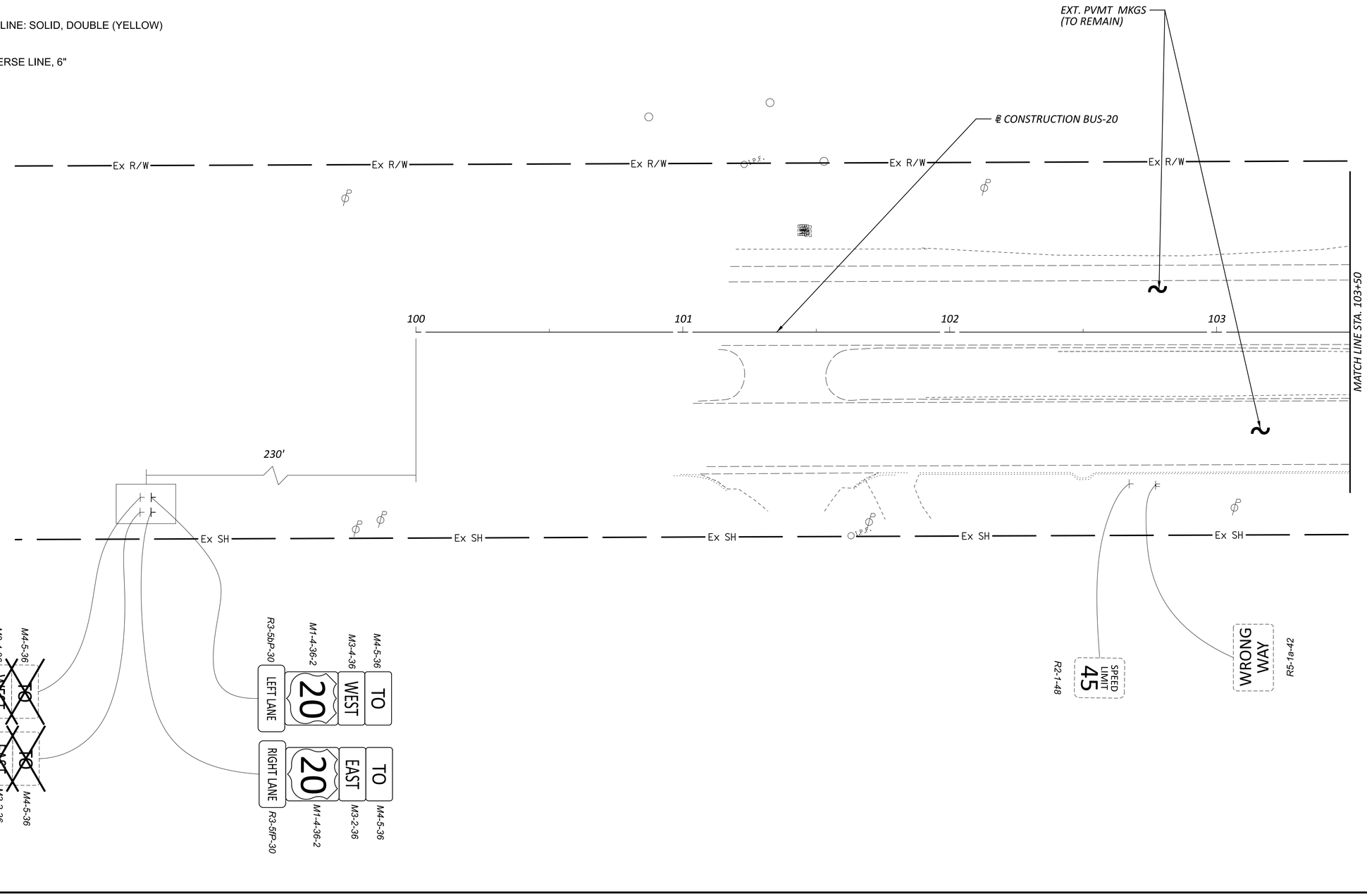
HORIZONTAL SCALE IN FEET
0 20
10 40

PAVEMENT MARKING LEGEND

- EW - EDGE LINE, 6" (WHITE)
- EY - EDGE LINE, 6" (YELLOW)
- LL - LANE LINE, 6"
- CH - CHANNELIZING LINE, 12"
- DL - DOTTED LINE, 12"
- CL - CENTER LINE: SOLID, DOUBLE (YELLOW)
- TL - TRANSVERSE LINE, 6"

SIGNING LEGEND

- EXISTING GROUND MOUNTED SIGN SUPPORT
- EXISTING GROUND MOUNTED SIGN WITH 2 SUPPORTS
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED



HORIZONTAL SCALE IN FEET
0 10 20 40

TRAFFIC CONTROL PLANS
BEGIN PROJECT TO STA. 103+50

CTY-RTE-SECTION

MODEL: 112222_TP001 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:31:02 PM USER: PIA81677
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DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER RKC
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.135 TOTAL 169

CTY-RTE-SECTION

MODEL: 112222_TP002 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:31:16 PM USER: PIA81677
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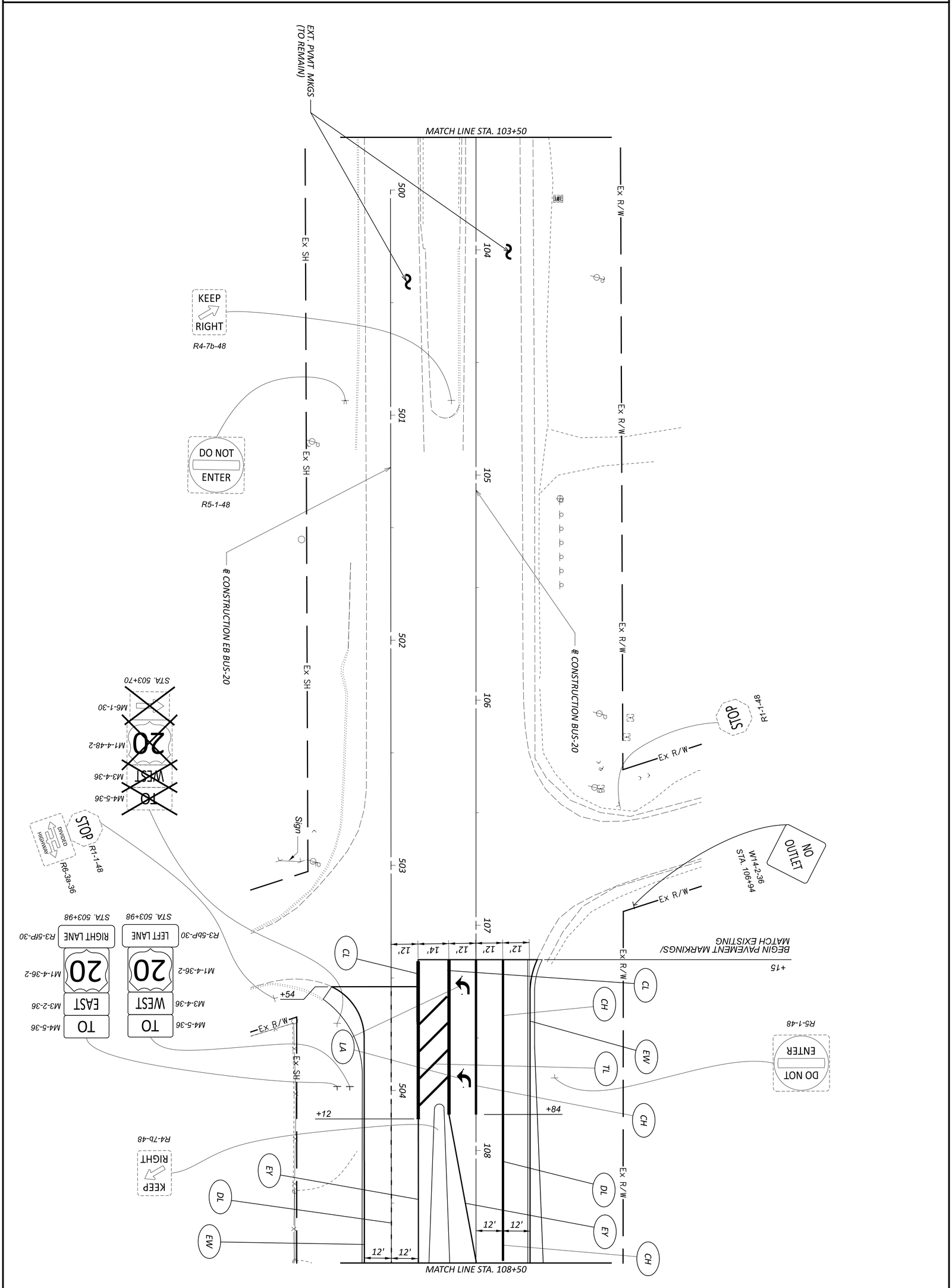

DESIGN AGENCY: MOTT MACDONALD, 18013 CLEVELAND PKWY, SUITE 200, CLEVELAND, OH 44135	TRAFFIC CONTROL PLANS STA. 103+50 TO STA. 108+50	HORIZONTAL SCALE IN FEET 0 10 20 40	
DESIGNER: RKC			
REVIEWER: SJP 07/26/24			
PROJECT ID: 112222			
SHEET: P.136 TOTAL: 169			

MODEL: 112222_TP003 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:31:30 PM USER: PIA81677
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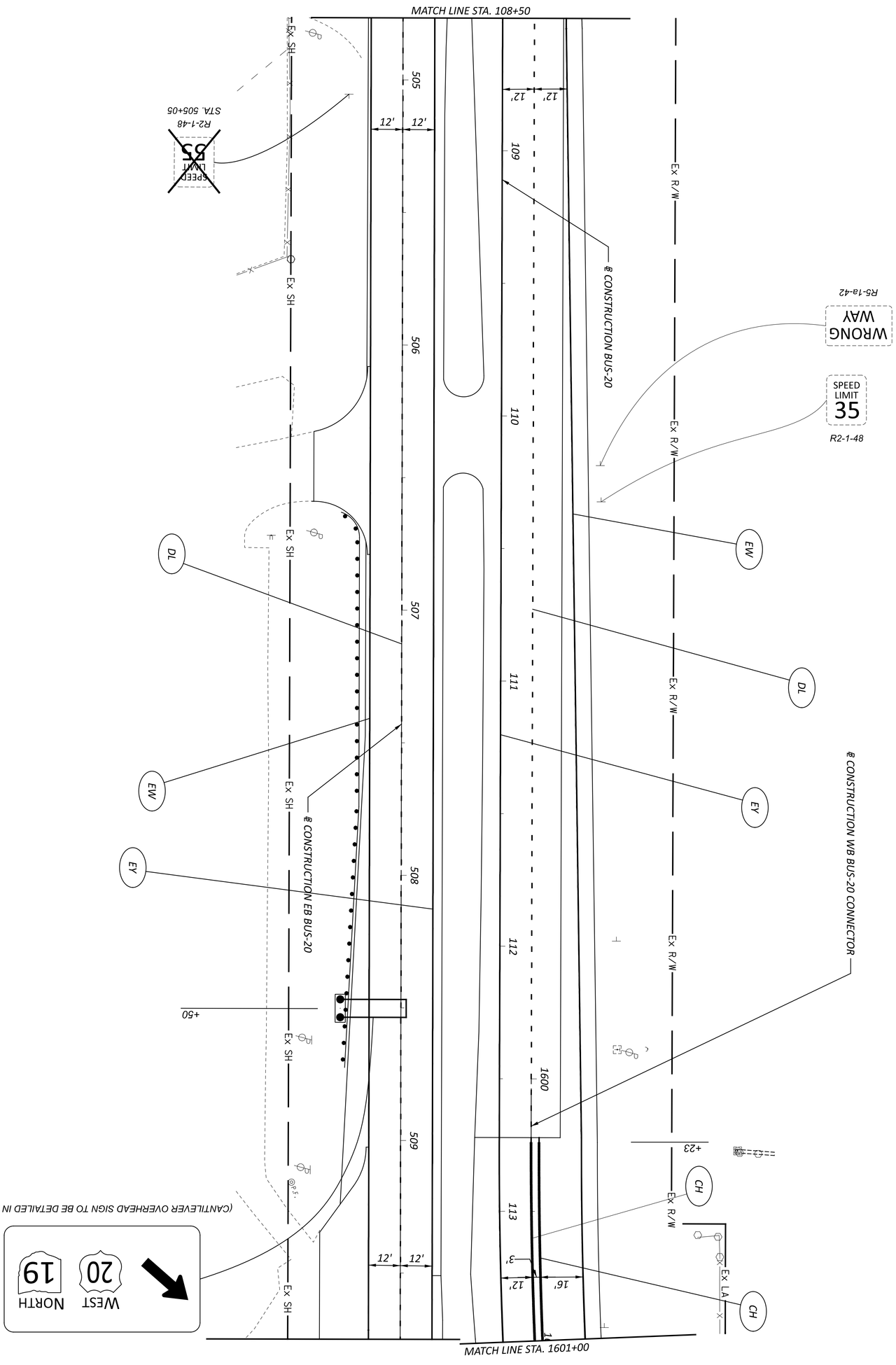

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
RKC	SJP 07/26/24	112222	P.137	169

TRAFFIC CONTROL PLANS
STA. 108+50 TO WB BUS-20 CONN. STA. 1601+00

HORIZONTAL SCALE IN FEET
0 20
10 40

CTY-RTE-SECTION

MODEL: 112222_TP004 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:31:44 PM USER: PIA81677
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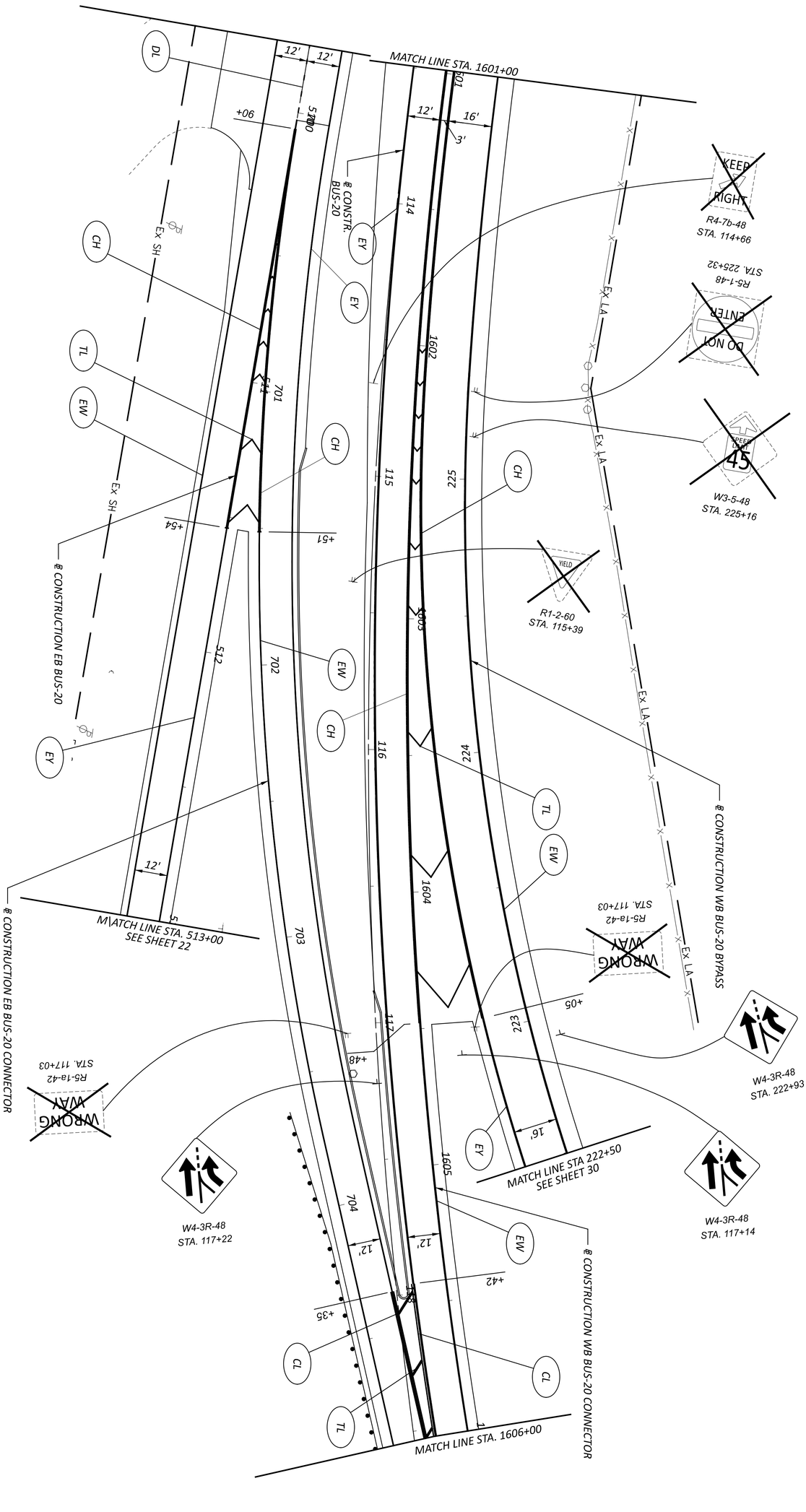
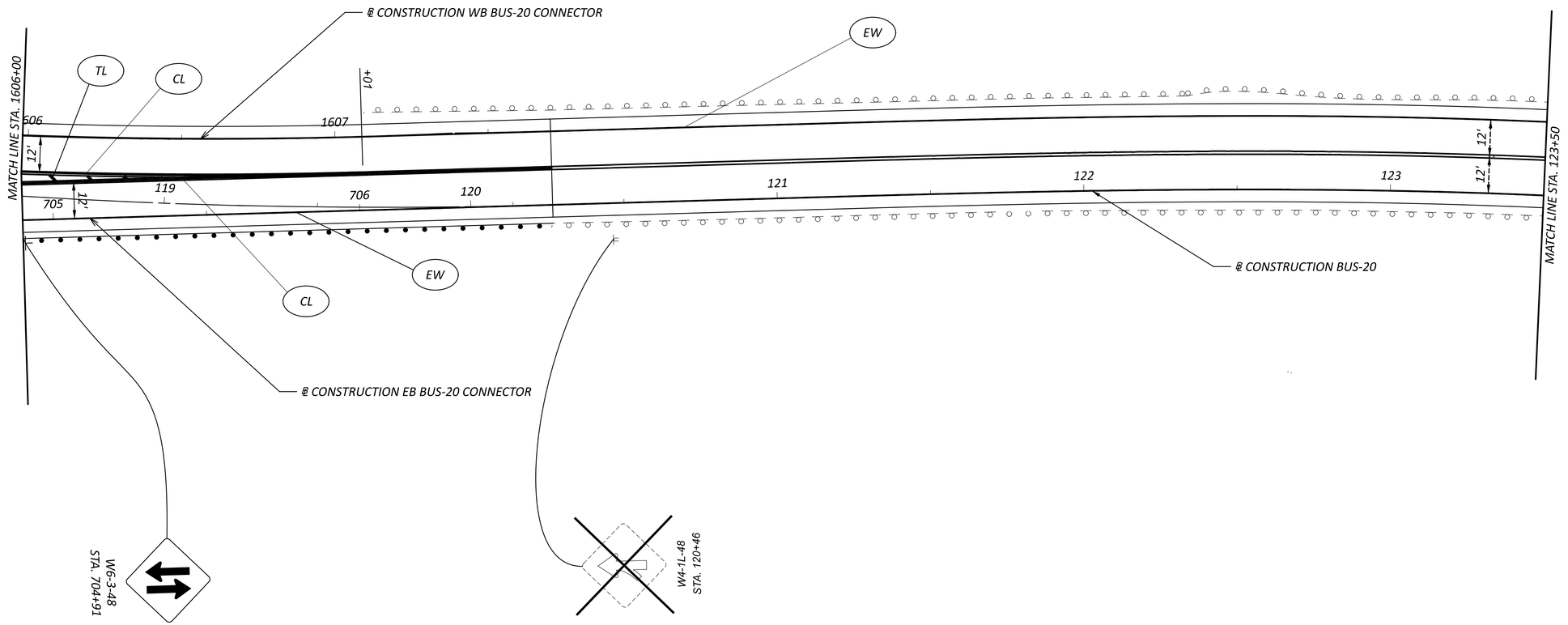


DESIGN AGENCY: MOTT MACDONALD, 20445 EMERALD PKWY, SUITE 100, CLEVELAND, OH 44135	TRAFFIC CONTROL PLANS STA. 1601+00 TO STA. 1606+00	HORIZONTAL SCALE IN FEET 0 10 20 40	
DESIGNER: RKC			
REVIEWER: SJP 07/26/24			
PROJECT ID: 112222			
SHEET: P.138 TOTAL: 169			



HORIZONTAL SCALE IN FEET
0 10 20 40

TRAFFIC CONTROL PLANS
STA. 1606+00 TO BUS-20 STA. 123+50

CTY-RTE-SECTION

MODEL: 112222_TP005 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:31:58 PM USER: PIA81677
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DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER RKC
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.139 TOTAL 169

HORIZONTAL
SCALE IN FEET
0 10 20 40

TRAFFIC CONTROL PLANS
STA. 123+50 TO STA. 128+50

CTY-RTE-SECTION

MODEL: 112222_TP006 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:32:12 PM USER: PIA81677
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DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
RKC

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.140 TOTAL 169

MODEL: 112222_TP007 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:32:25 PM USER: PIA81677
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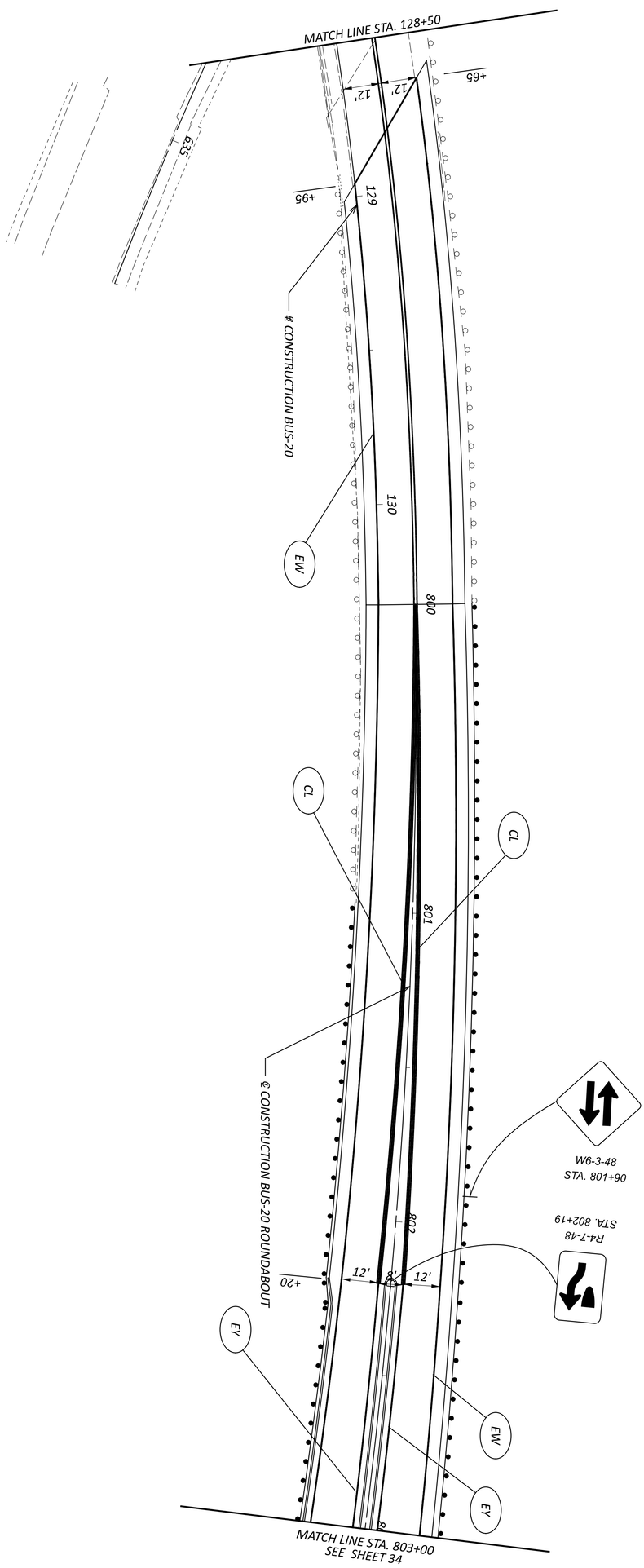

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER RKC
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.141 TOTAL 169

TRAFFIC CONTROL PLANS
STA. 128+50 TO BUS-20 RAB STA. 803+00

HORIZONTAL SCALE IN FEET
0 20
10 40

CTY-RTE-SECTION

MODEL: 112222_TP009 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:32:39 PM USER: PIA81677
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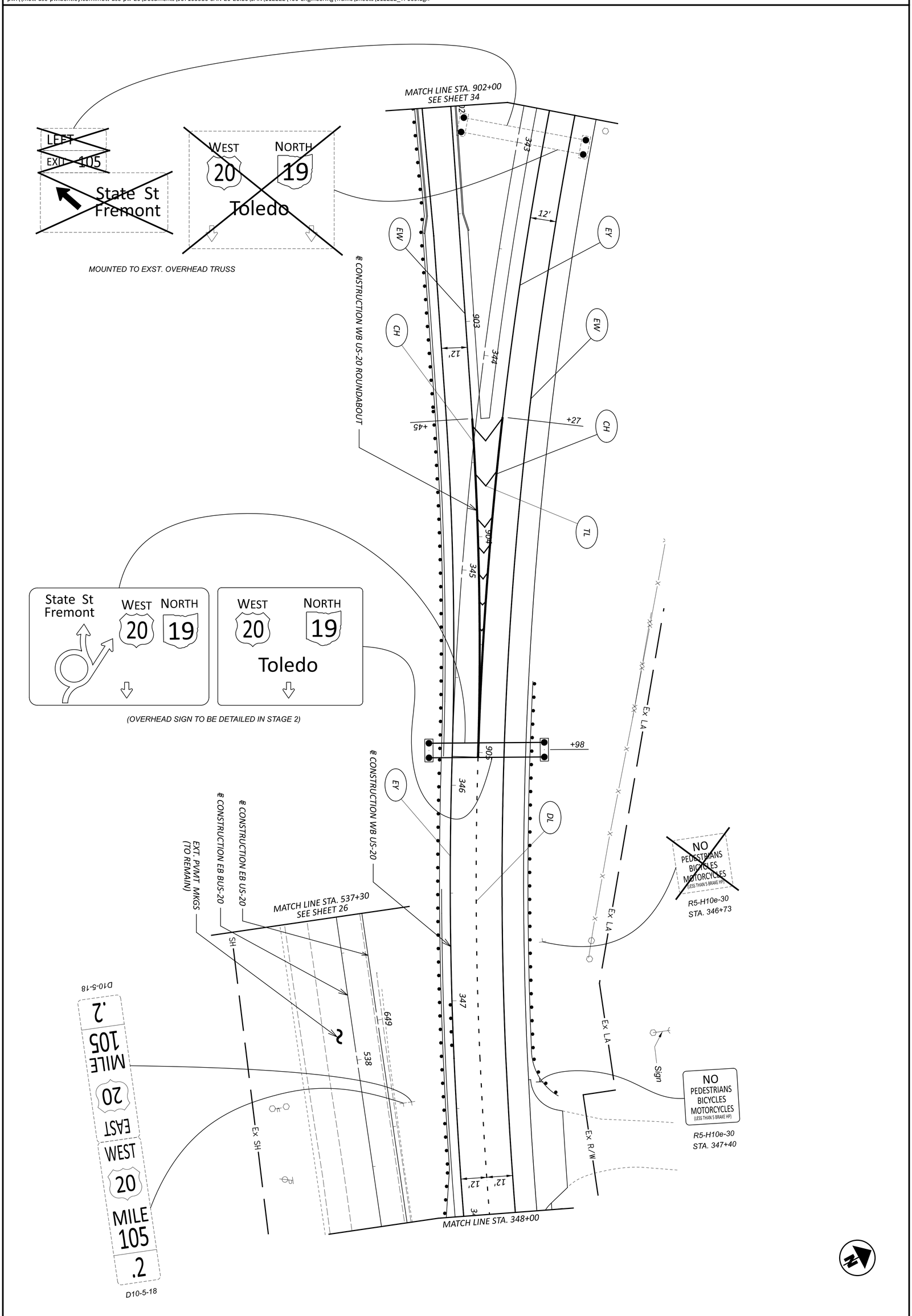

DESIGN AGENCY: MOTT MACDONALD, 20445 EMERALD PKWY, SUITE 100, CLEVELAND, OH 44135	SHEET TITLE SHEET SUB-TITLE	HORIZONTAL SCALE IN FEET	0 10 20 40
DESIGNER: RKC			
REVIEWER: SJP 07/19/24			
PROJECT ID: 112222			
SHEET: P.143 TOTAL: 170			

MODEL: 112222_TP010 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:32:53 PM USER: PIA81677
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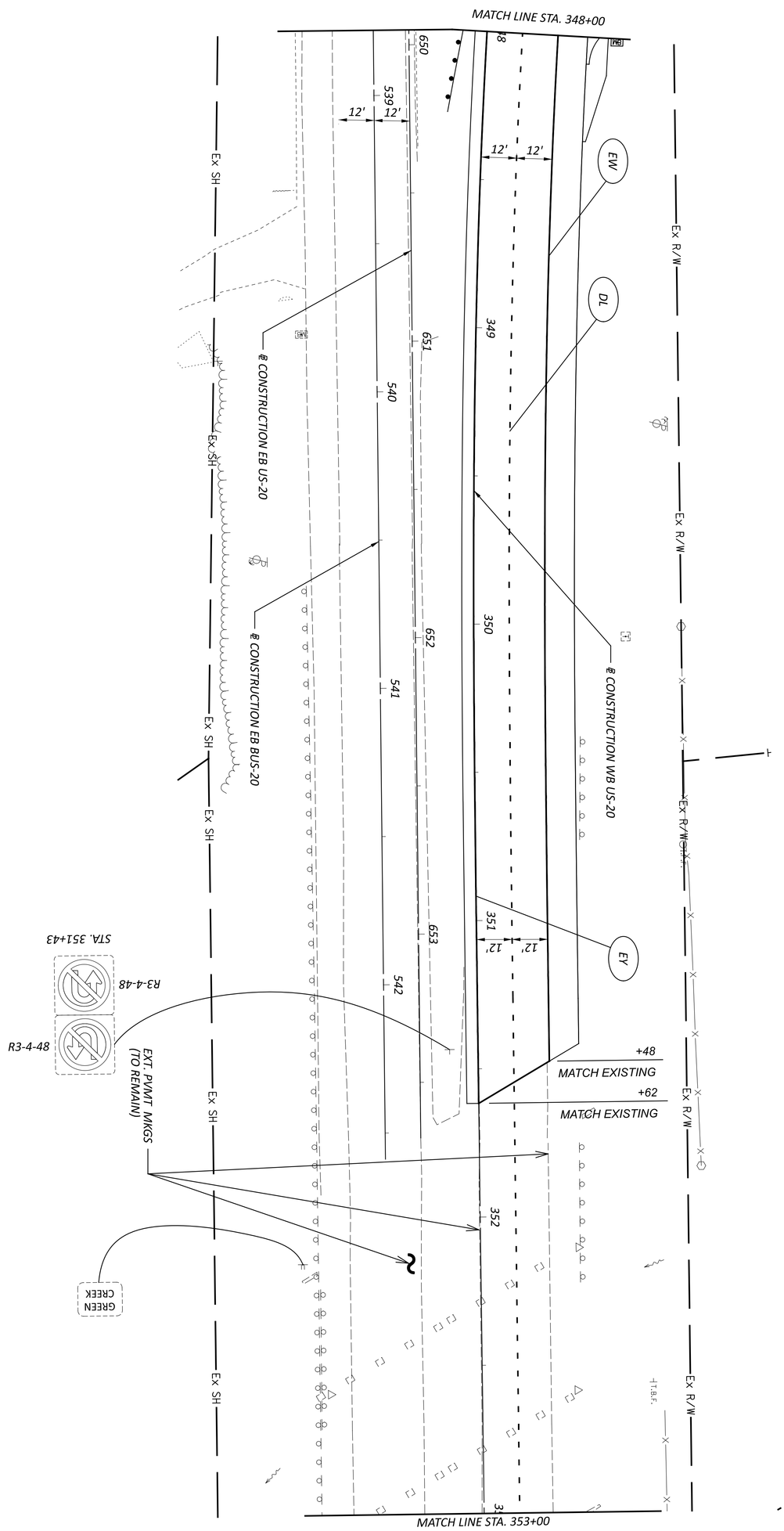

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER RKC
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.143 TOTAL 169

TRAFFIC CONTROL PLANS
STA. 348+00 TO STA. 353+00

HORIZONTAL SCALE IN FEET
0 20
10 40

CTY-RTE-SECTION

MODEL: 112222_TP011 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:33:07 PM USER: PIA81677
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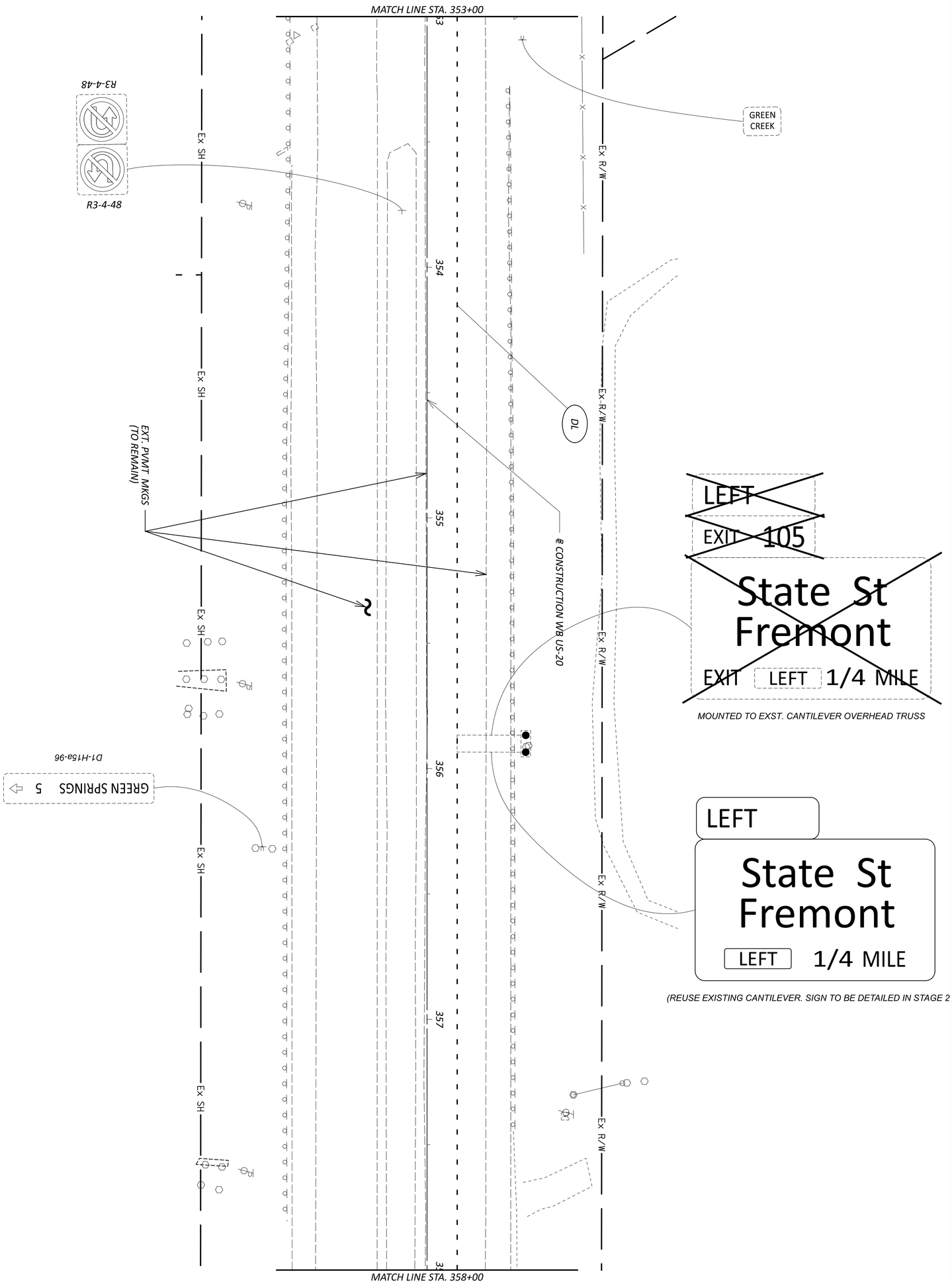

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
RKC

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.144 TOTAL 169

TRAFFIC CONTROL PLANS
STA. 353+00 TO STA. 358+00

HORIZONTAL SCALE IN FEET
0 10 20 40

MODEL: 112222_TP012 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:33:20 PM USER: PIA81677
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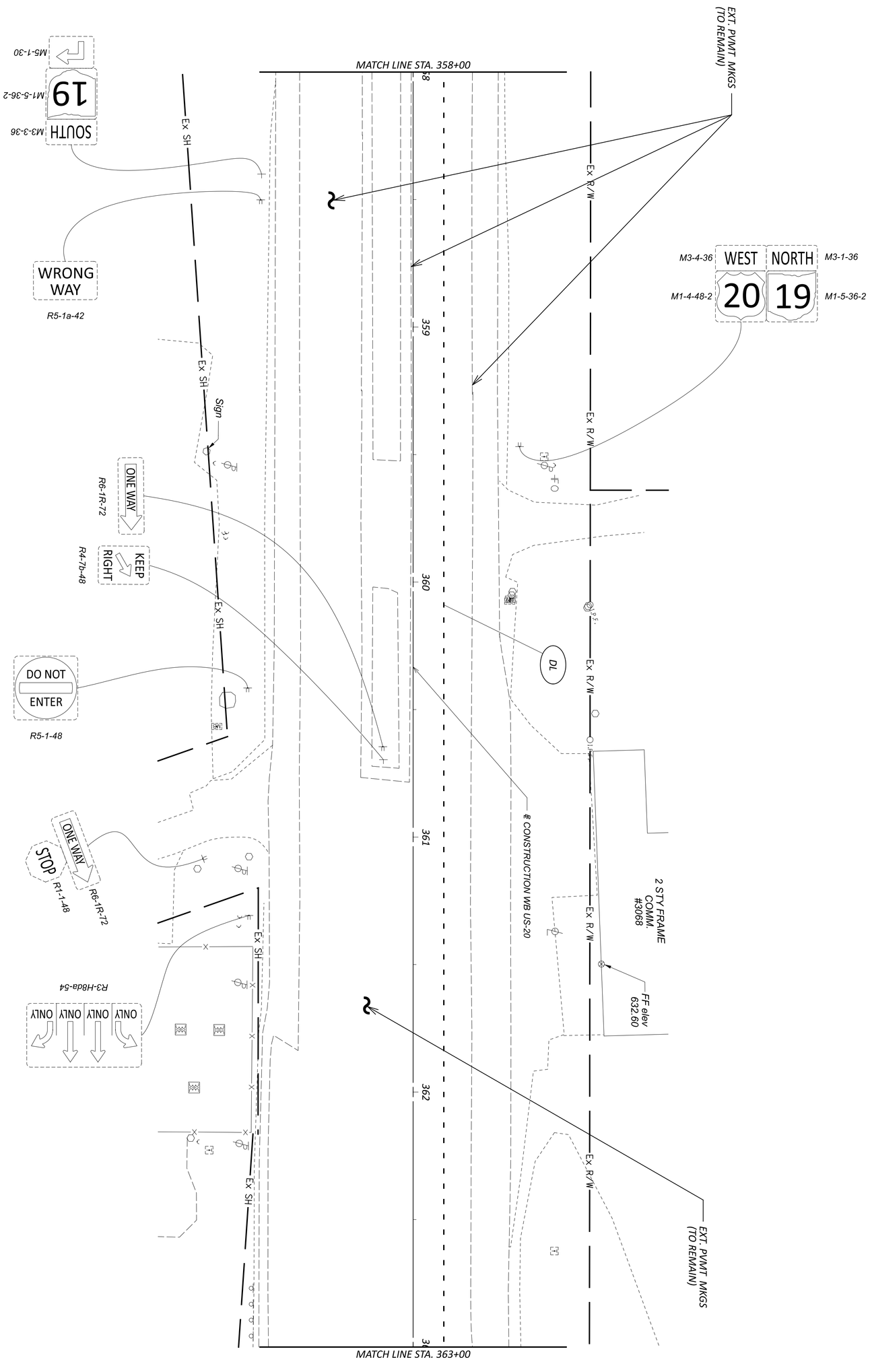

SHEET P.145	TOTAL 169	DESIGN AGENCY MOTT MACDONALD 20445 EMERALD PKWY SUITE 200 CLEVELAND, OH 44135	TRAFFIC CONTROL PLANS STA. 358+00 TO STA. 363+00
PROJECT ID 112222		REVIEWER SJP 07/26/24	HORIZONTAL SCALE IN FEET 0 20 10 40
		DESIGNER RKC	

MODEL: 112222_TP013 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:33:33 PM USER: PIA81677
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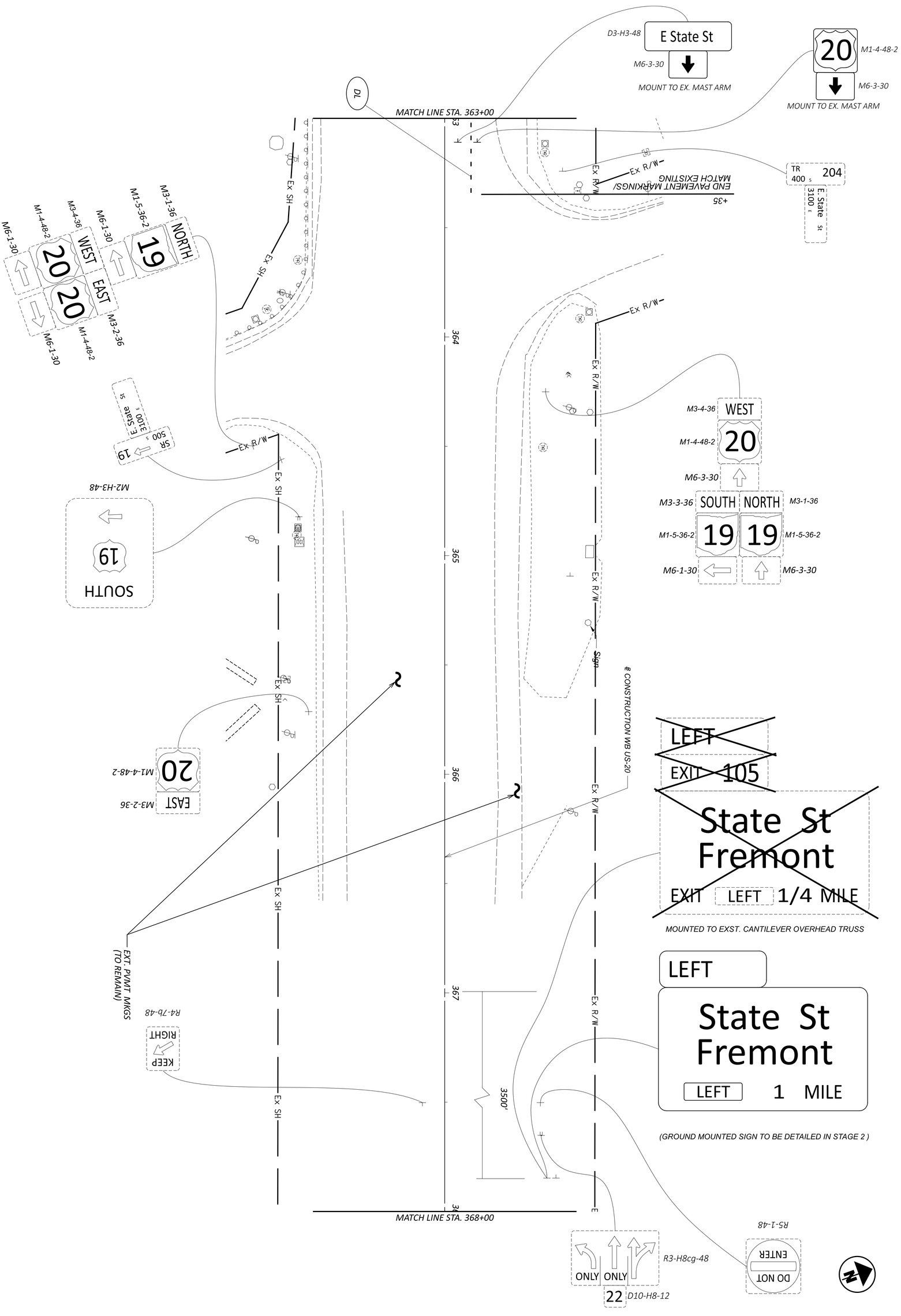

SHEET P.146	TOTAL 169	PROJECT ID 112222	REVIEWER SJP 07/26/24	DESIGNER RKC	DESIGN AGENCY MOTT MACDONALD 20445 EMERALD PKWY SUITE 200 CLEVELAND, OH 44135	TRAFFIC CONTROL PLANS STA. 363+00 TO STA. 368+00

HORIZONTAL SCALE IN FEET
0 20
10 40

CTY-RTE-SECTION

MODEL: 112222_TP015 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:33:46 PM USER: PIA81677
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TRAFFIC CONTROL PLANS
STA. 600+00 TO STA. 604+50

HORIZONTAL SCALE IN FEET
0 10 20 40

EXT. PVMT MKGS (TO REMAIN)

W2-1-48
W16-H8P-48
COUNTY ROAD 198
W16-H8P-48
COUNTY ROAD 229

WRONG WAY
R5-1a-42
STA. 602+73

300 301 302 303 304

℄ CONSTRUCTION WB US-20

300'

℄ CONSTRUCTION EB US-20

600 601 602 603 604

MATCH LINE STA. 604+50

3600'

300'

LIMITED ACCESS NOTE SIGN ON FENCE (TO REMAIN)

+31 MATCH EXISTING

EY

EW

+31 MATCH EXISTING

Ex LA Ex LA Ex LA Ex LA Ex LA

EXIT XX

State St
Fremont

EXIT 1 MILE

(GROUND MOUNTED SIGN TO BE DETAILED IN STAGE 2)

COUNTY ROAD 198
COUNTY ROAD 229
W16-H8P-48
W16-H8P-48
W2-1-48

R26-H3-OE
LIMITED ACCESS HIGHWAY END
WRONG WAY
R5-1a-42
STA. 602+73

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER RKC

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.147 TOTAL 169

TRAFFIC CONTROL PLANS
STA. 604+50 TO STA. 609+50

HORIZONTAL SCALE IN FEET
0 10 20 40

N

MATCH LINE STA. 604+50

305 306 307 308 309

605 606 607 608 609

MATCH LINE STA. 609+50

@ CONSTRUCTION WB US-20

@ CONSTRUCTION EB US-20

EXT. PVMT MKGS (TO REMAIN)

KEEP RIGHT
R4-7b-48
STA. 305+08

BEGIN LIMITED ACCESS HIGHWAY
R26-H2-30
STA. 304+87

STOP
R1-1-48
DIVIDED HIGHWAY
R6-3-36
STA. 305+83

DO NOT ENTER
R5-1-48
STA. 306+82

WRONG WAY
R5-1a-42
STA. 309+39

WRONG WAY
R5-1a-42
STA. 309+39

+81 MATCH EXISTING

+31 MATCH EXISTING

EW

+90 MATCH EXISTING

EY

+90 MATCH EXISTING

Ex LA

Ex LA

Ex LA

STOP
R1-1-48
DIVIDED HIGHWAY
R6-3-36
STA. 605+67

+31 MATCH EXISTING

EY

+81 MATCH EXISTING

EW

DO NOT ENTER
R5-1-48
STA. 604+75

KEEP RIGHT
R4-7b-48
STA. 606+96

EXIT XX
State St
Fremont
NEXT RIGHT
(GROUND MOUNTED SIGN TO BE DETAILED IN STAGE 2)

M3-2-36
M1-4-36-2
20 EAST
19 SOUTH
M1-5-36-2
M3-3-36

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER RKC

REVIEWER SJP 07/26/24

PROJECT ID 112222

SHEET P.148 TOTAL 169

CTY-RTE-SECTION

MODEL: 112222_TP016 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:34:00 PM USER: PIA81677
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MODEL: 112222_TP017 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:34:14 PM USER: PIA81677
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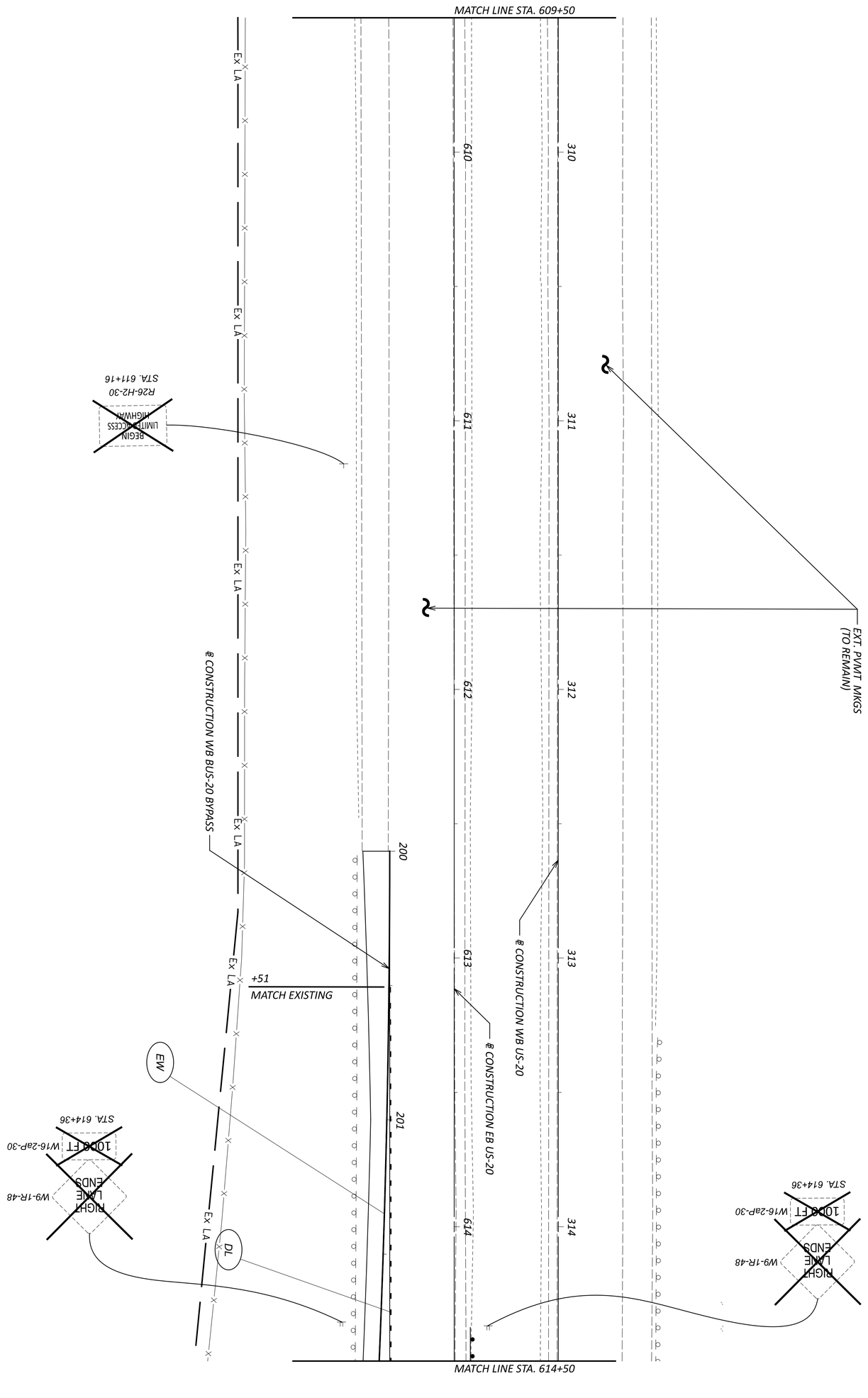

SHEET P.149 TOTAL 169	PROJECT ID 112222	REVIEWER SJP 07/26/24	DESIGNER RKC

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

TRAFFIC CONTROL PLANS
STA. 609+50 TO STA. 614+50

HORIZONTAL SCALE IN FEET
0 20
10 40

HORIZONTAL SCALE IN FEET
0 10 20 40

TRAFFIC CONTROL PLANS
STA. 614+50 TO STA. 619+50

CTY-RTE-SECTION

MODEL: 112222_TP018 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:34:27 PM USER: PIA81677
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DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER RKC
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.150 TOTAL 169

CTY-RTE-SECTION

MODEL: 112222_TP019 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:34:42 PM USER: PIA81677
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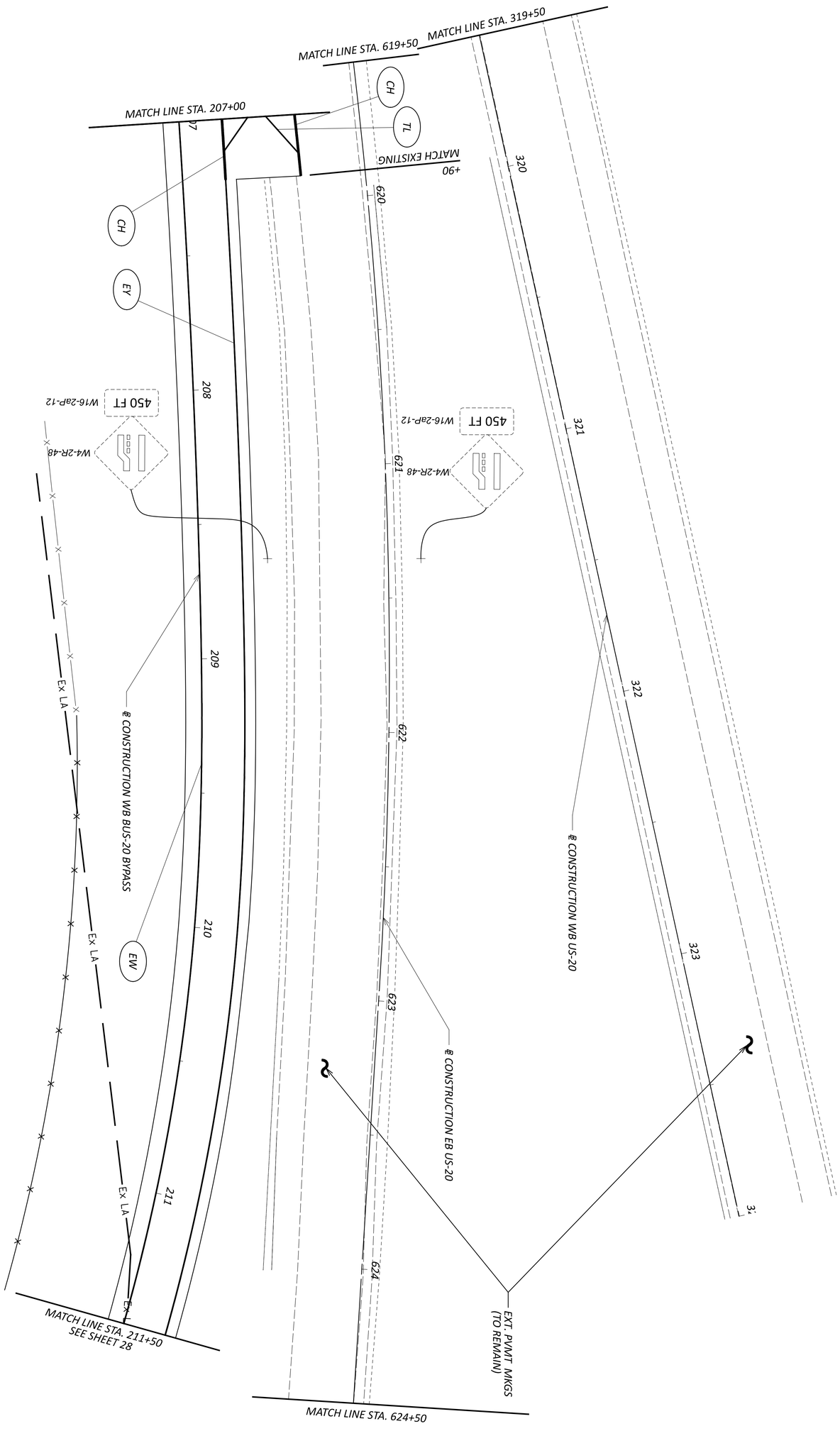

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
RKC

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.151 TOTAL 169

TRAFFIC CONTROL PLANS
STA. 619+50 TO STA. 624+50

HORIZONTAL SCALE IN FEET
0 10 20 40

CTY-RTE-SECTION

MODEL: 112222_TP020 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:34:56 PM USER: PIA81677
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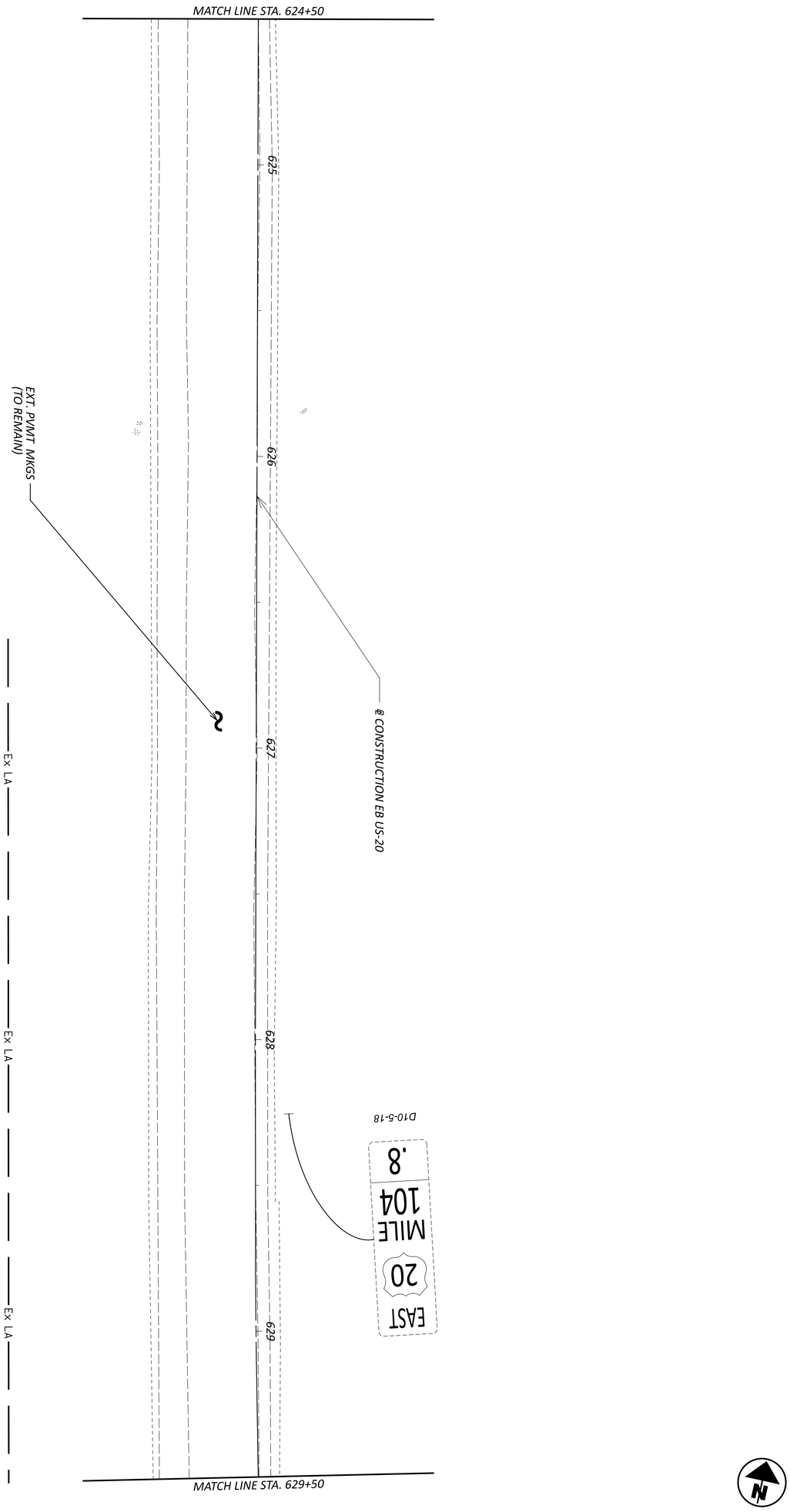

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
RKC

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.152 TOTAL 169

TRAFFIC CONTROL PLANS
STA. 624+50 TO STA. 629+50

HORIZONTAL SCALE IN FEET
0 10 20 40

MODEL: 112222_TP021 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:35:09 PM USER: PIA81677
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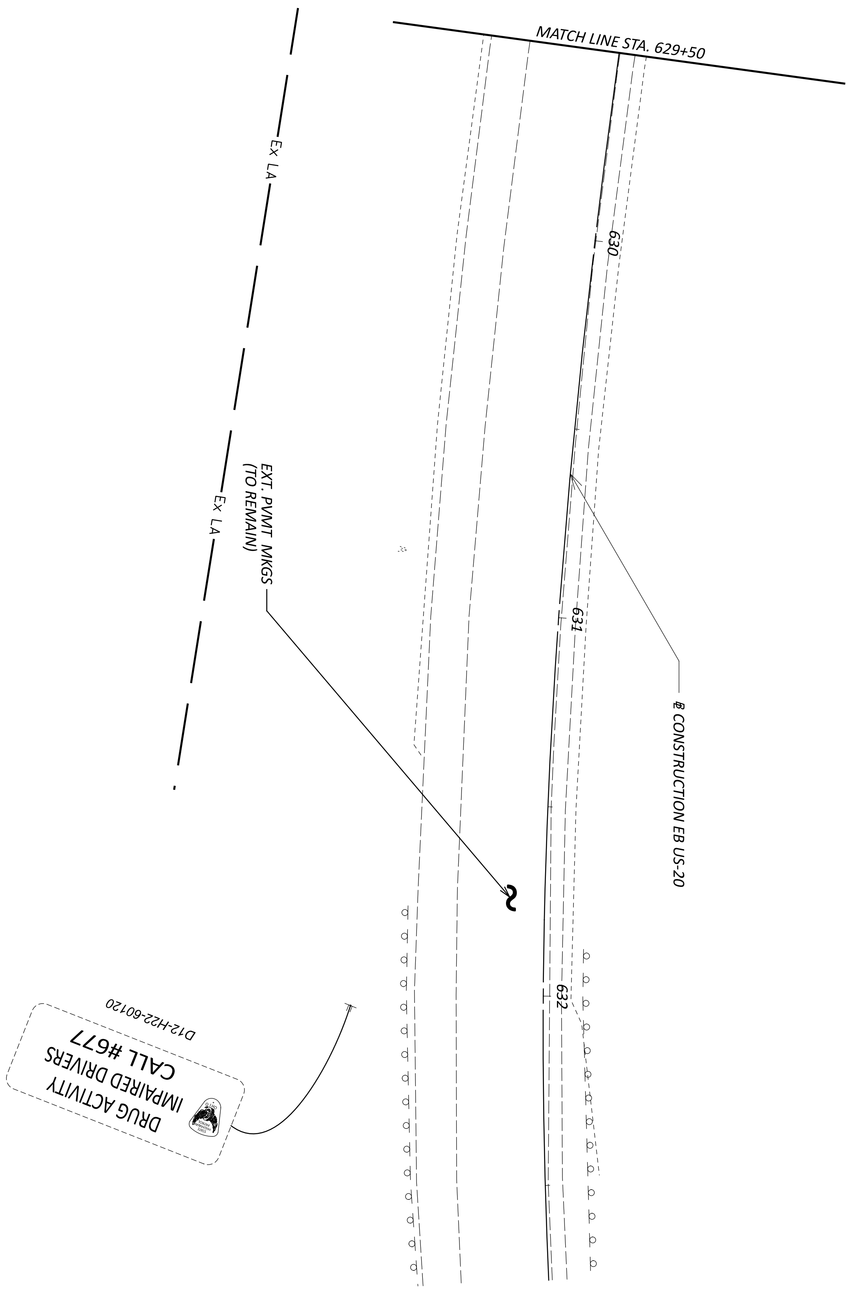



DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER RKC
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.153 | TOTAL 169

TRAFFIC CONTROL PLANS
STA. 629+50 TO STA. 632+50

HORIZONTAL SCALE IN FEET
0 20
10 40

CTY-RTE-SECTION

MODEL: 112222_TP022 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:35:26 PM USER: PIA81677
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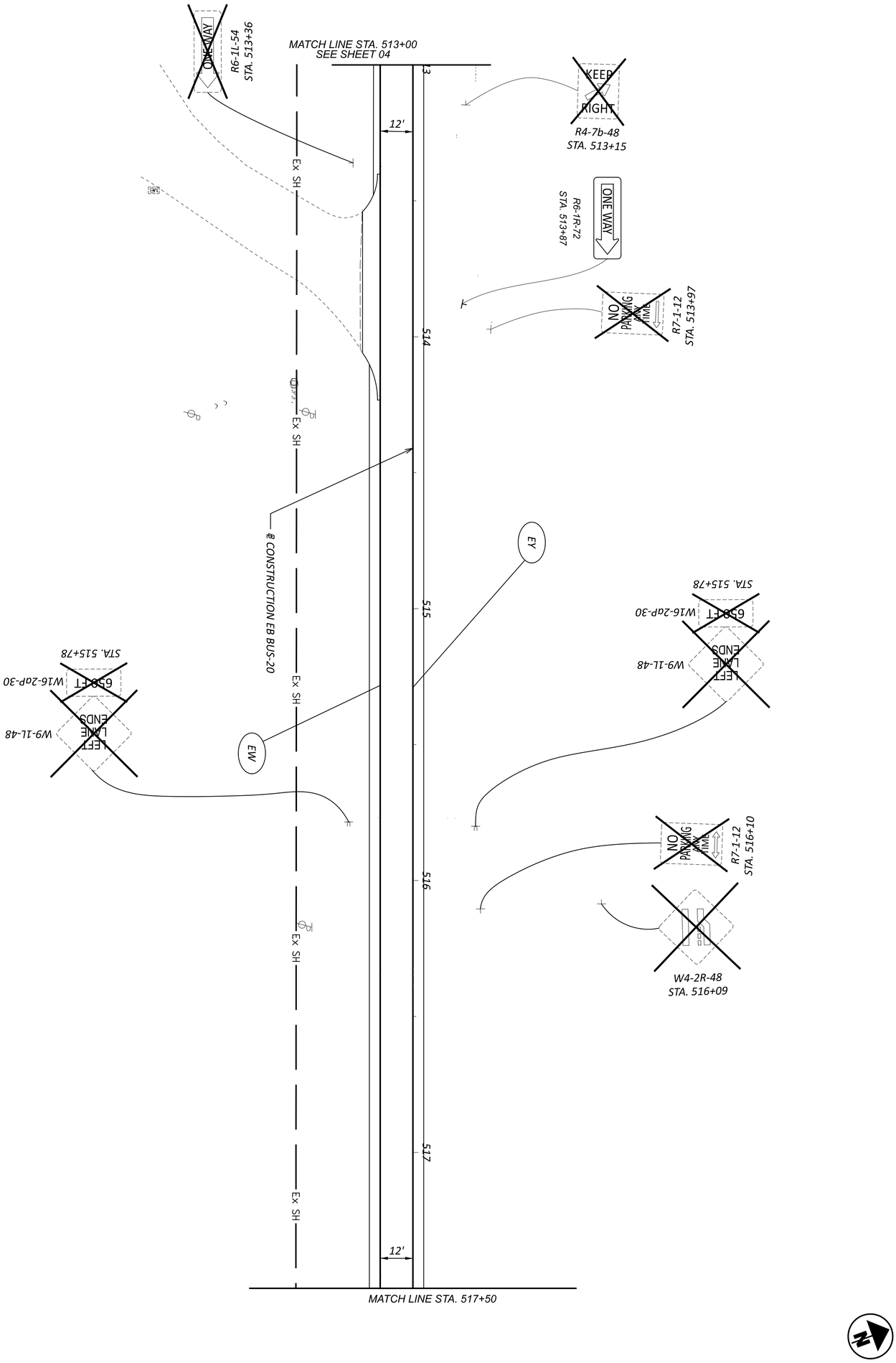

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
RKC

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.154 TOTAL 169

TRAFFIC CONTROL PLANS
STA. 513+00 TO STA. 517+50

HORIZONTAL SCALE IN FEET
0 10 20 40

MODEL: 112222_TP023real PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:35:39 PM USER: PIA81677
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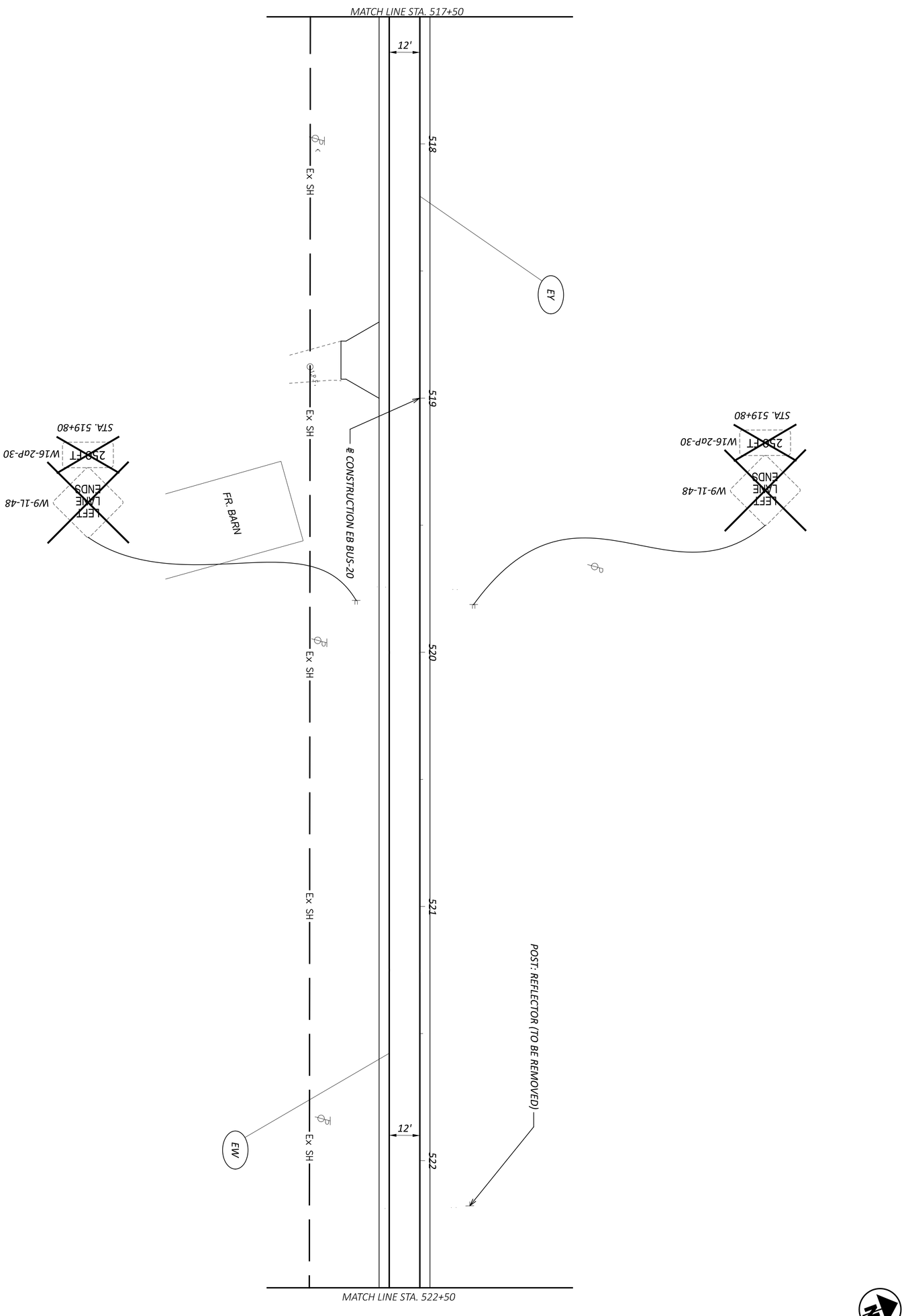
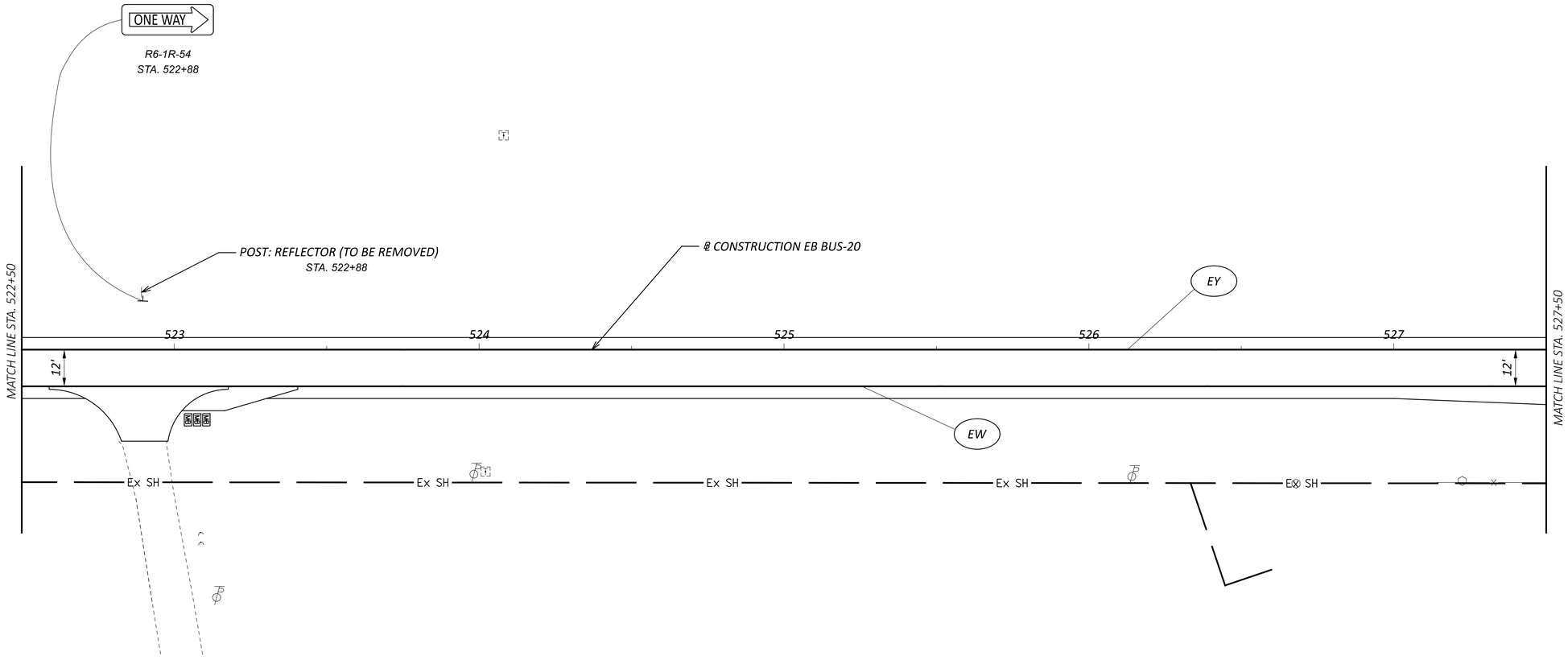


SHEET P.155 TOTAL 169	PROJECT ID 112222	REVIEWER SJP 07/26/24	DESIGNER RKC

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

TRAFFIC CONTROL PLANS
STA. 517+50 TO STA. 522+50

HORIZONTAL SCALE IN FEET
0 20
10 40



HORIZONTAL SCALE IN FEET
0 10 20 40

TRAFFIC CONTROL PLANS
STA. 522+50 TO STA. 527+50

CTY-RTE-SECTION

MODEL: 112222_TP024REAL PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:35:52 PM USER: PIA81677
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DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER: RKC
REVIEWER: SJP 07/26/24
PROJECT ID: 112222
SHEET: P.156 | TOTAL: 169

CTY-RTE-SECTION

MODEL: 112222_TP025new PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:36:05 PM USER: PIA81677
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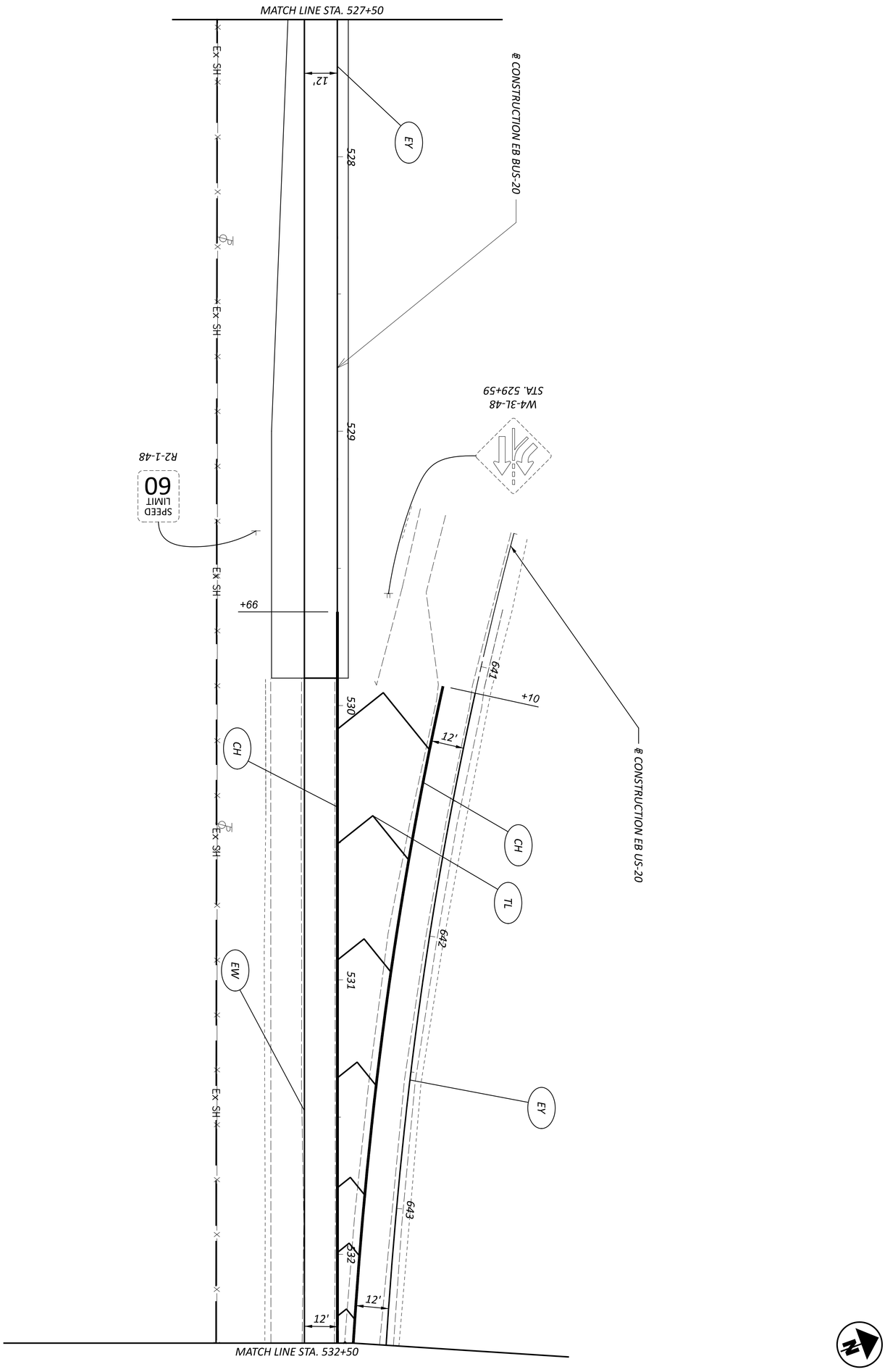

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
RKC

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.157 TOTAL 169

TRAFFIC CONTROL PLANS
STA. 527+50 TO STA. 532+50

HORIZONTAL SCALE IN FEET
0 10 20 40

MODEL: 112222_TP026new PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:36:19 PM USER: PIA81677
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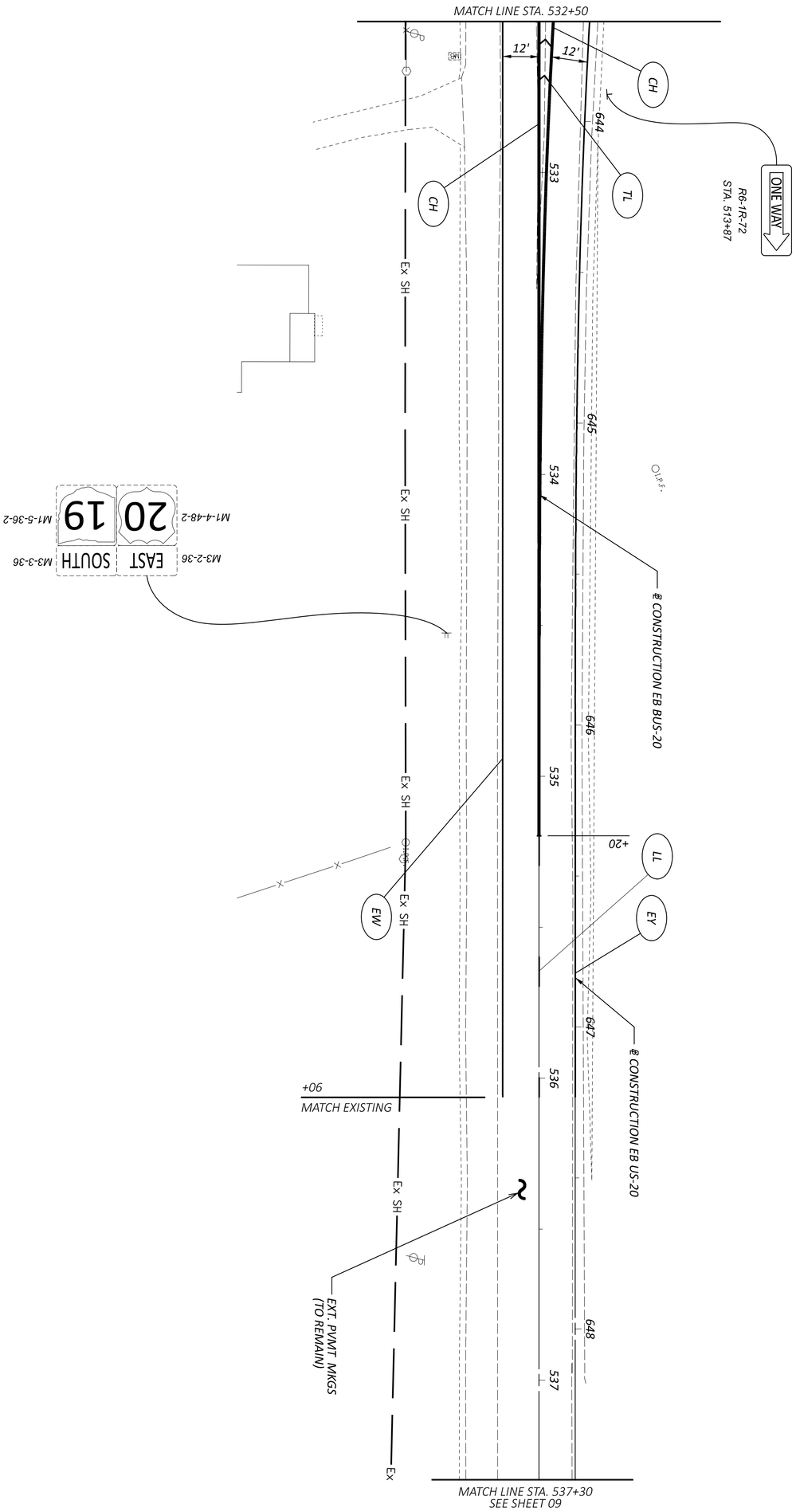

DESIGN AGENCY
MOTT MACDONALD
2044S EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135
DESIGNER
REVIEWER
RKC
SJP 07/26/24
PROJECT ID
112222
SHEET
P.158
TOTAL
169

TRAFFIC CONTROL PLANS
STA. 532+50 TO STA. 537+30

HORIZONTAL
SCALE IN FEET
0 20
10 40

MODEL: 112222_TP027 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:36:33 PM USER: PIA81677
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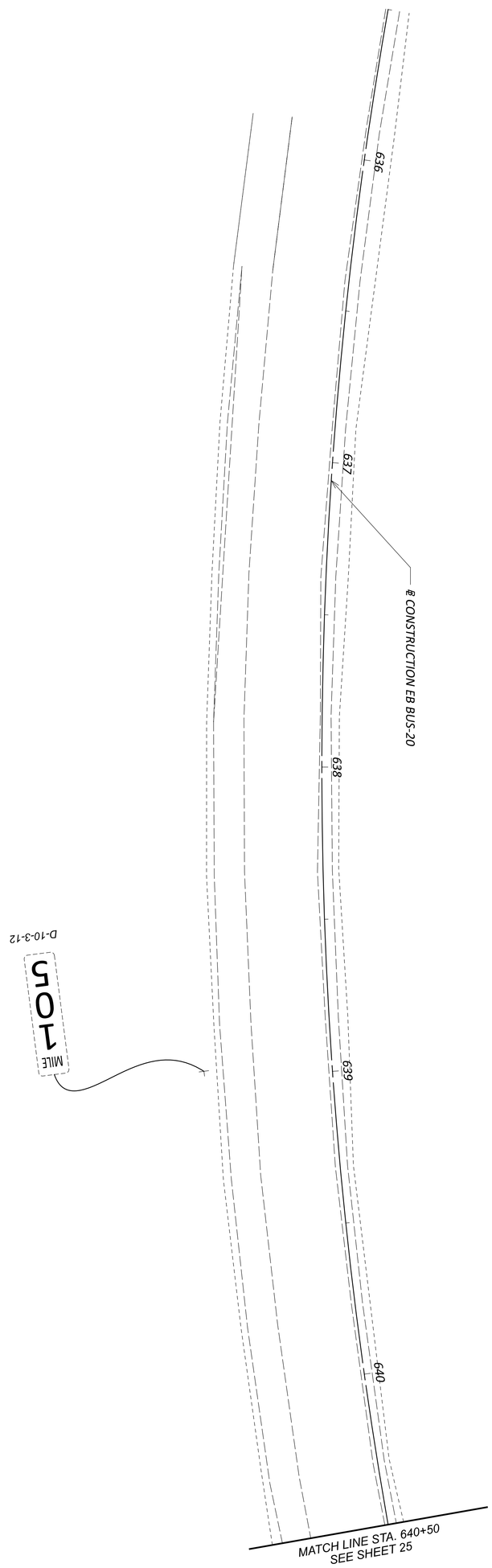

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER	RKC
REVIEWER	SJP 07/26/24
PROJECT ID	112222
SHEET	P.159
TOTAL	169

TRAFFIC CONTROL PLANS
STA. 636+00 TO STA. 640+50

HORIZONTAL SCALE IN FEET
0 20
10 40

CTY-RTE-SECTION

MODEL: 112222_TP028 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:36:54 PM USER: PIA81677
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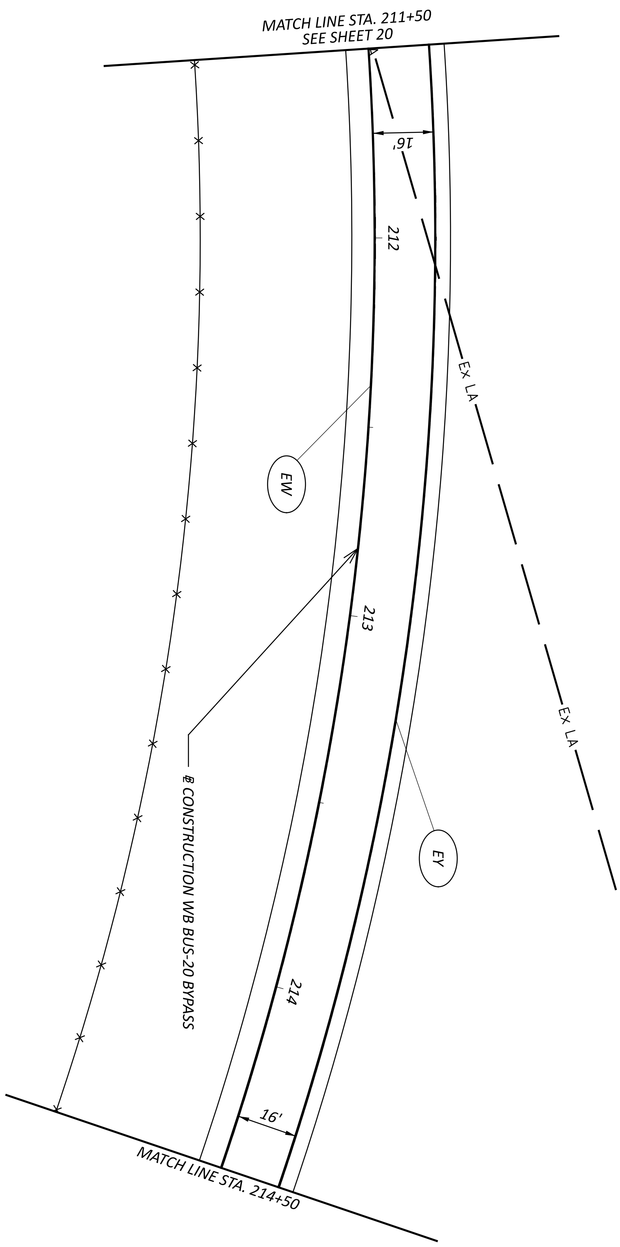



DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
RKC

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.160 TOTAL 169

TRAFFIC CONTROL PLANS
STA. 211+50 TO STA. 214+50

HORIZONTAL SCALE IN FEET
0 20
10 40

MODEL: 112222_TP029 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:37:08 PM USER: PIA81677
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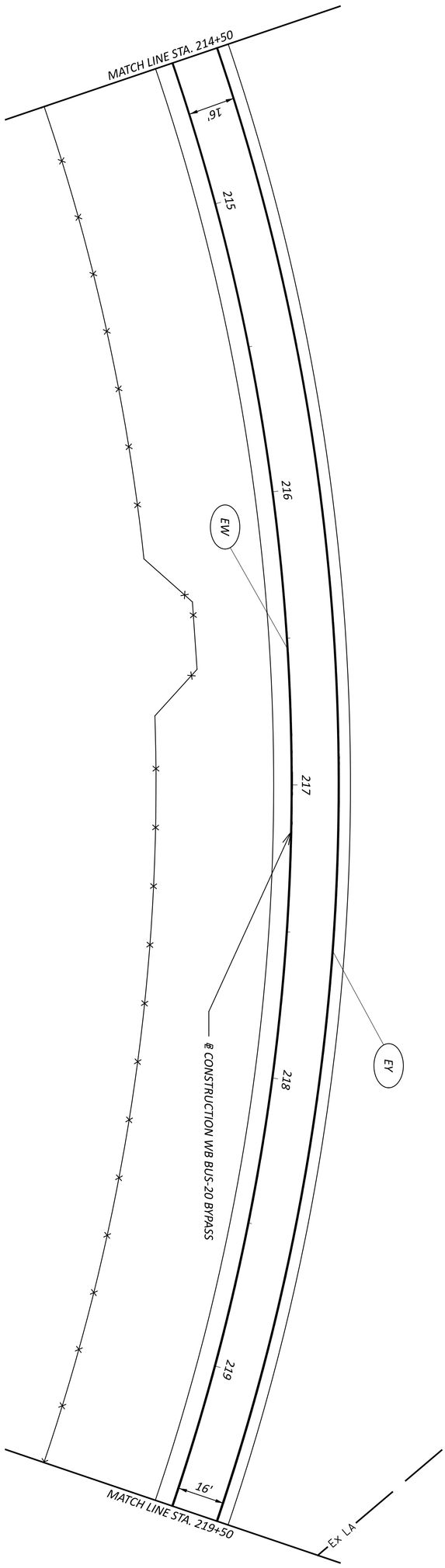

TRAFFIC CONTROL PLANS
STA. 214+50 TO STA. 219+50

HORIZONTAL SCALE IN FEET
0 20
10 40

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER RKC
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.161 TOTAL 169

MODEL: 112222_TP030 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:37:21 PM USER: PIA81677
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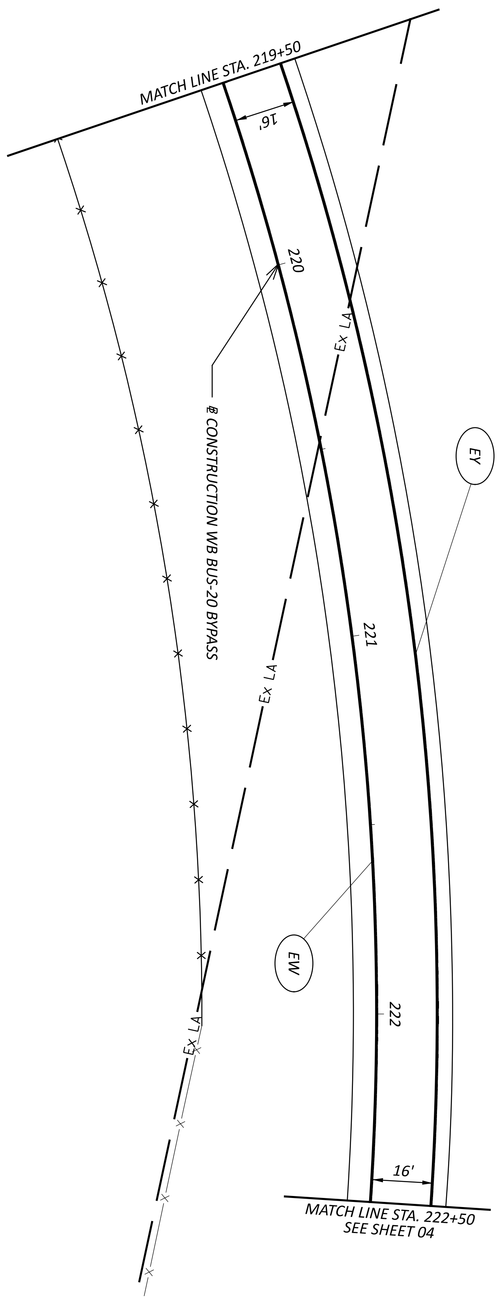


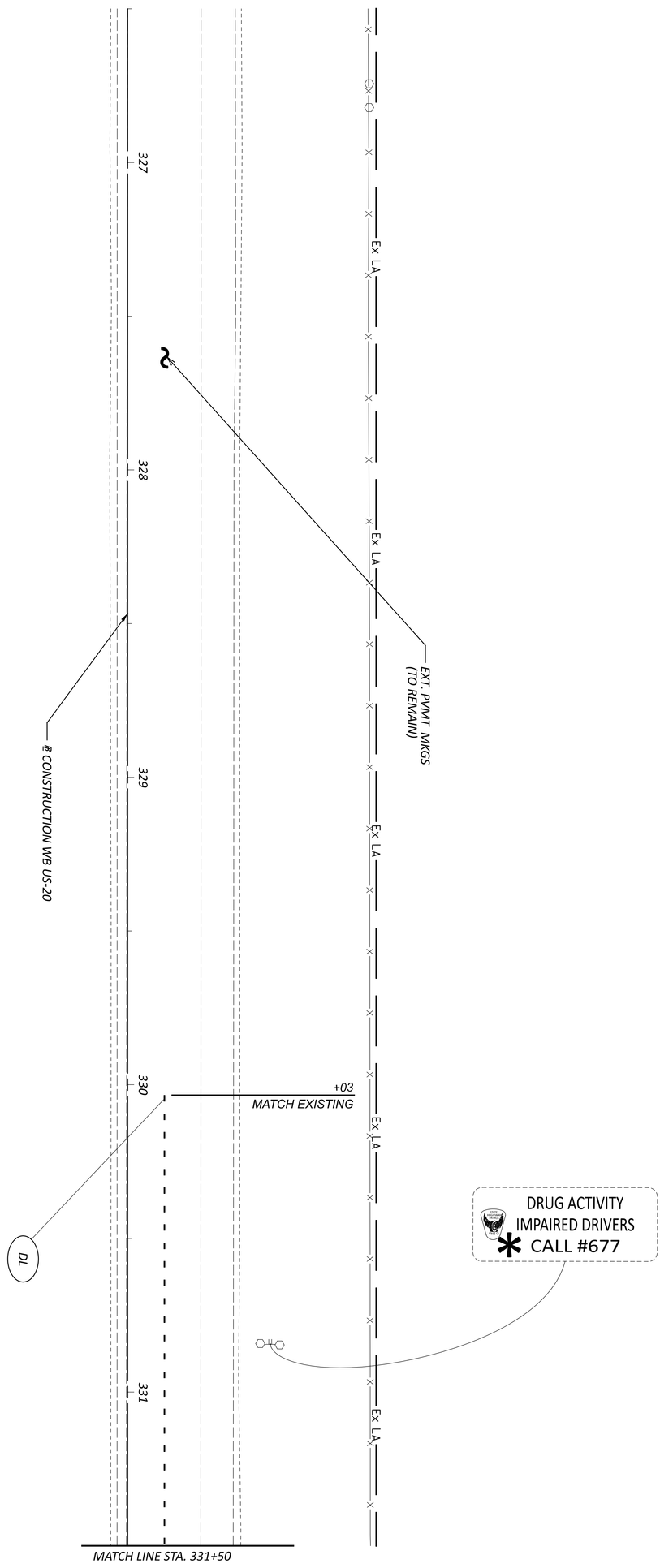


DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER RKC
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.162 | TOTAL 169

TRAFFIC CONTROL PLANS
STA. 219+50 TO STA. 222+50

HORIZONTAL SCALE IN FEET
0 20
10 40



TRAFFIC CONTROL PLANS
STA. 327+00 TO STA. 331+50

HORIZONTAL SCALE IN FEET
0 10 20 40

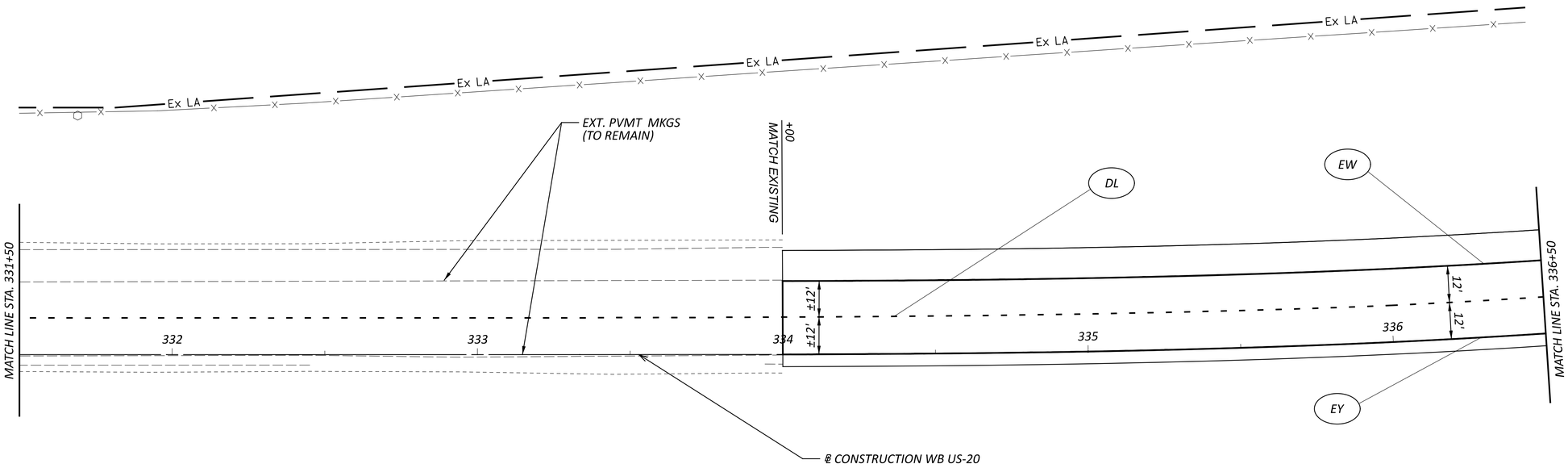
DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
RKC

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.163 TOTAL 169



HORIZONTAL SCALE IN FEET
0 10 20 40

TRAFFIC CONTROL PLANS
STA. 331+50 TO STA. 336+50

CTY-RTE-SECTION

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DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
RKC

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.164 TOTAL 169

MODEL: 112222_TP031 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:38:03 PM USER: PIA81677
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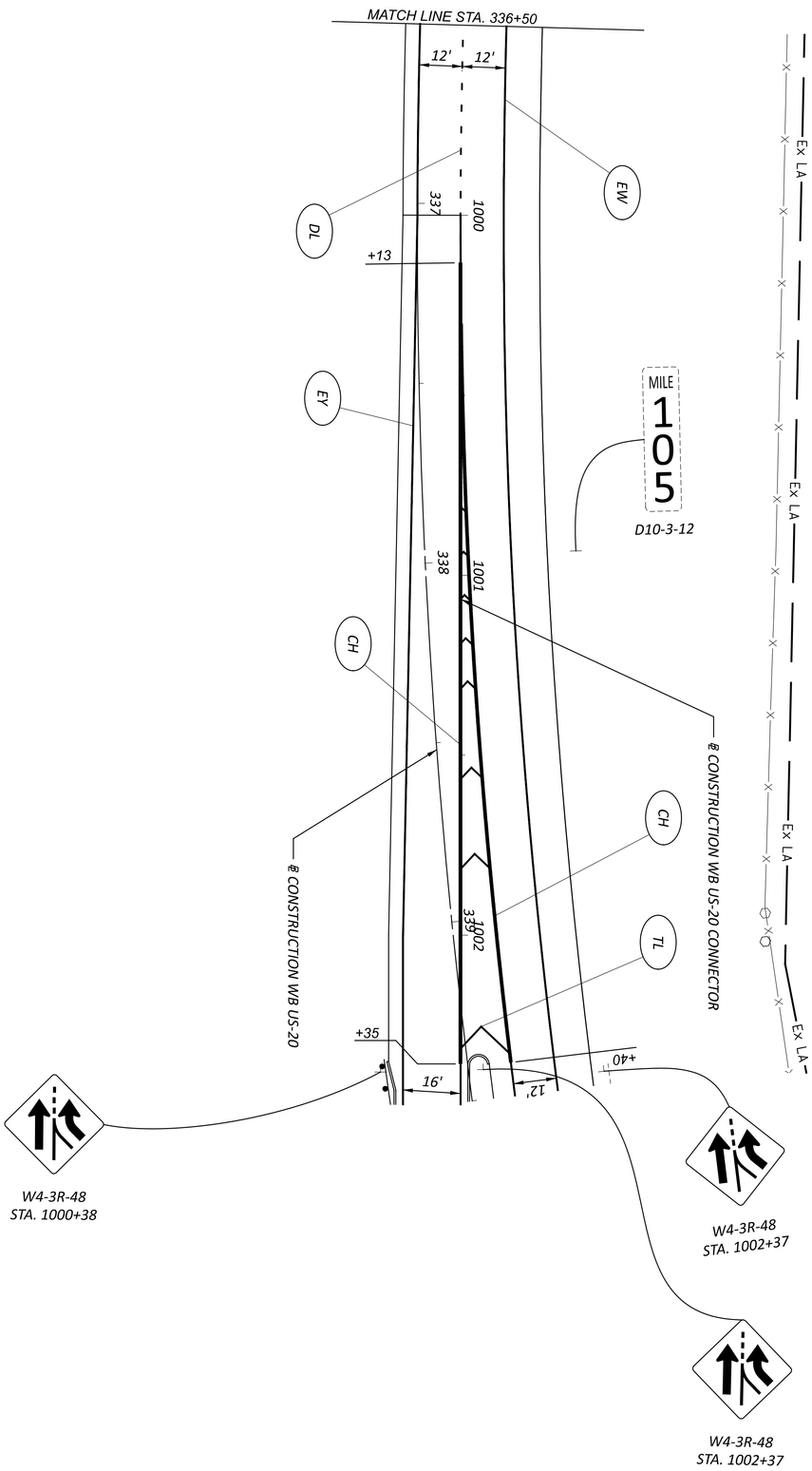

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER RKC
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.165 TOTAL 169

TRAFFIC CONTROL PLANS
STA. 336+50 TO WB US-20 CONN. STA. 1002+50

HORIZONTAL SCALE IN FEET
0 20
10 40

NOTES:

1. REFER TO SHEET XX FOR SIGNING AND MARKING ON WB US-20

HORIZONTAL SCALE IN FEET
0 10 20 40

TRAFFIC CONTROL PLANS ROUNDABOUT

CTY-RTE-SECTION

MODEL: 112222_TP032 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:38:18 PM USER: PIA81677
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DESIGN AGENCY
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20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER RKC
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.166 TOTAL 169

CTY-RTE-SECTION

MODEL: 112222_TP035 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:38:34 PM USER: PIA81677
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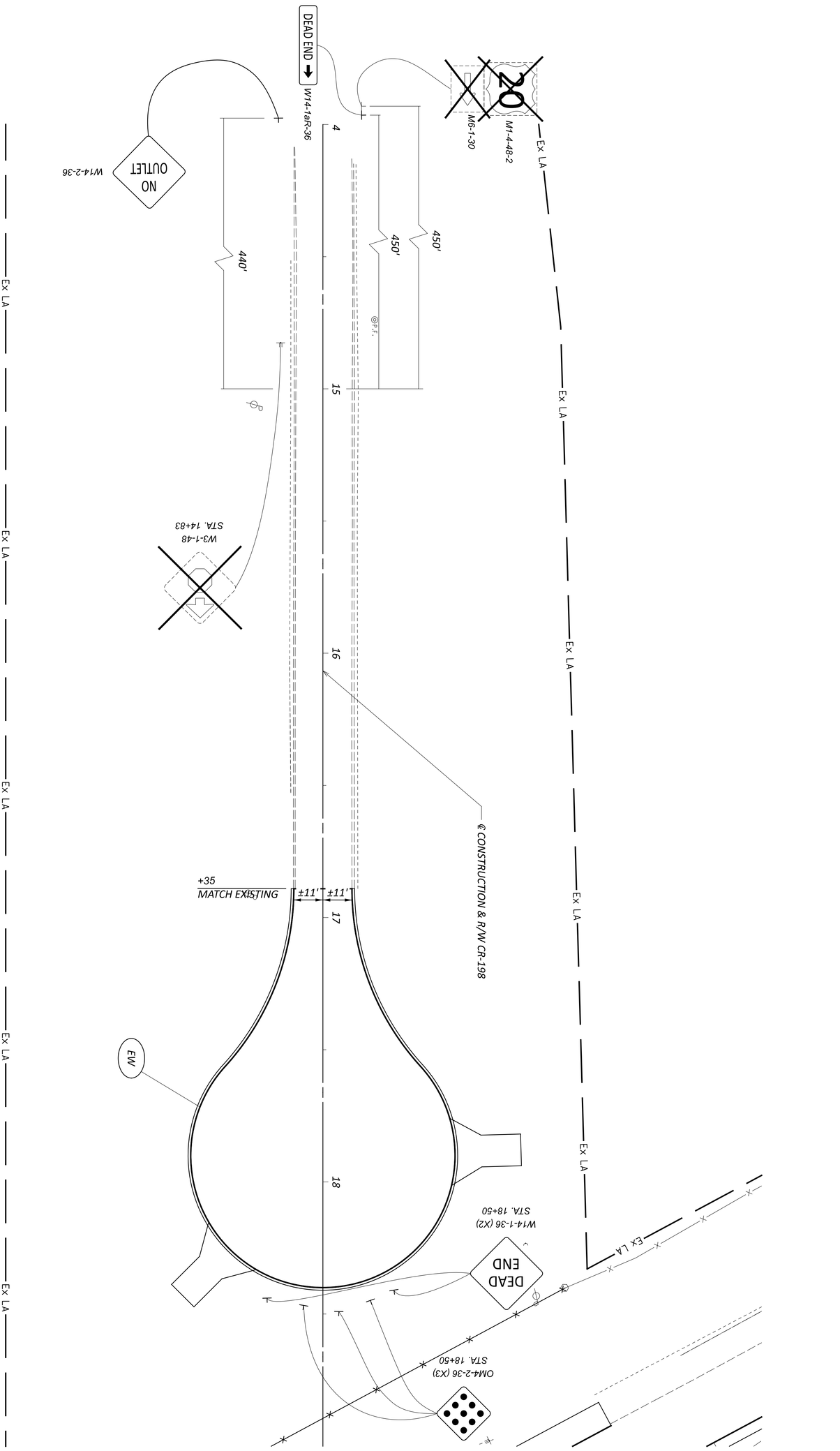

DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER RKC
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.167 TOTAL 169

TRAFFIC CONTROL PLANS
CR-198 CUL-DE-SAC

HORIZONTAL SCALE IN FEET
0 20
10 40

CTY-RTE-SECTION

MODEL: 112222_TP036 PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:38:48 PM USER: PIA81677
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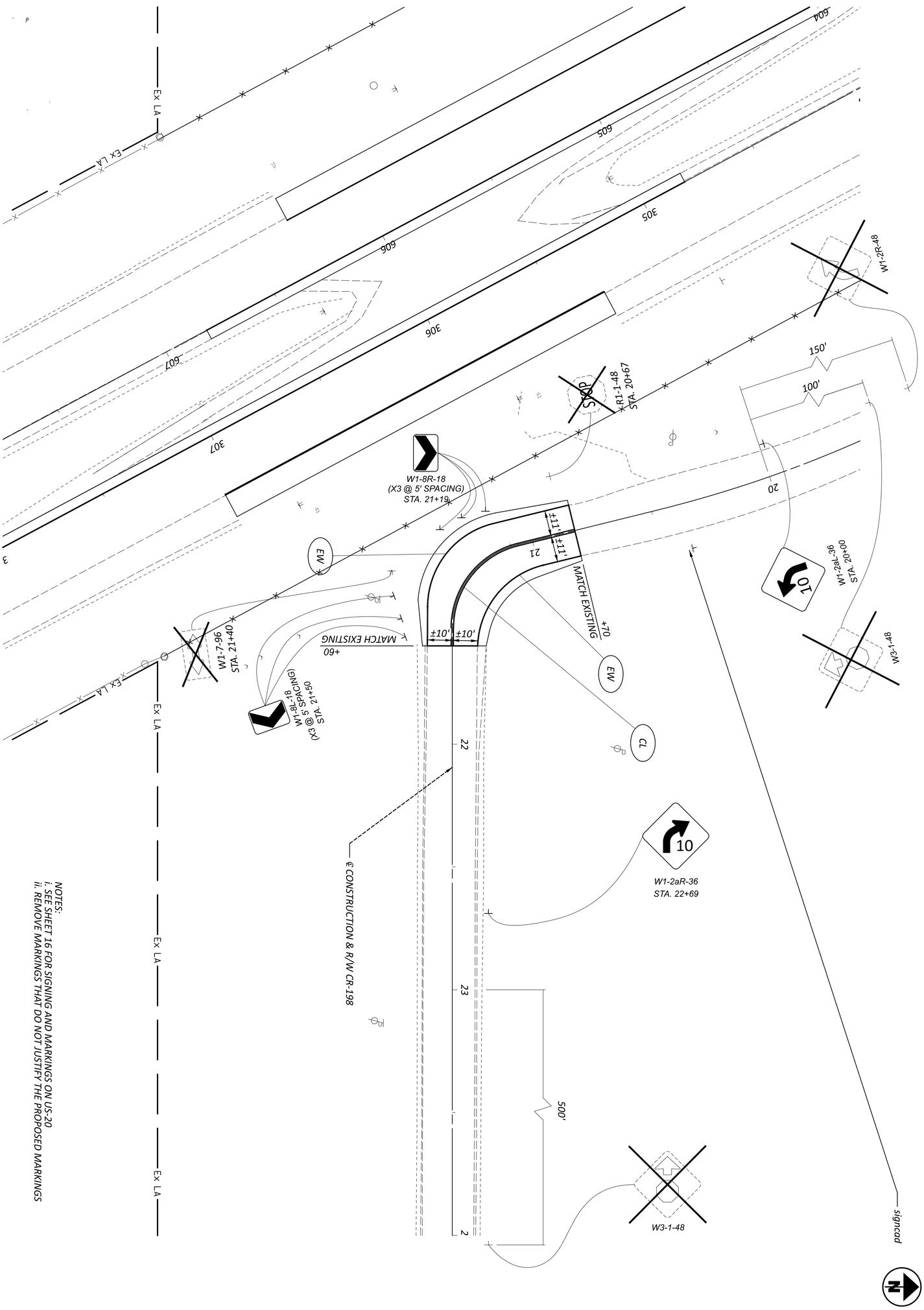
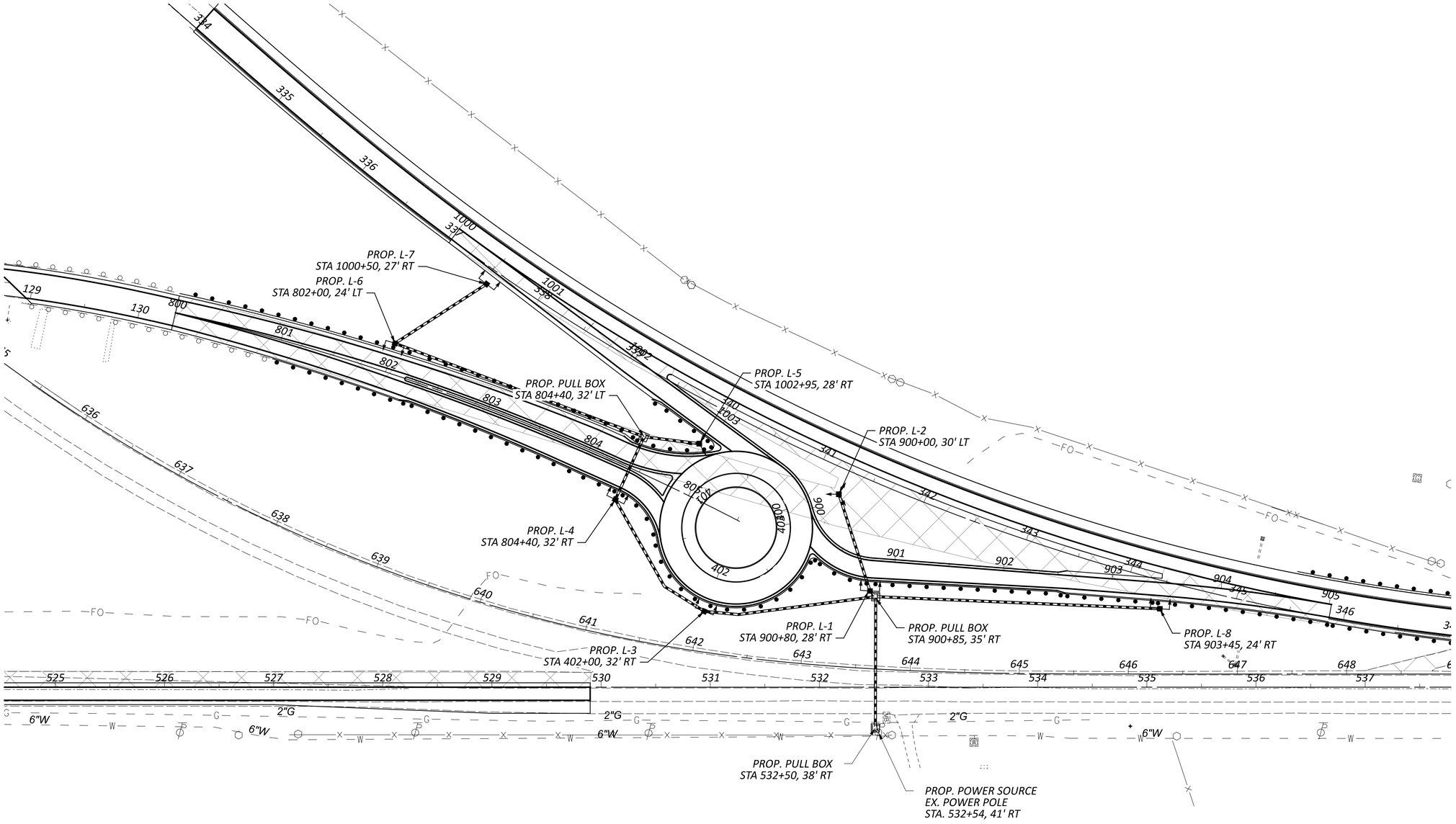


DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER RKC
REVIEWER SJP 07/26/24
PROJECT ID 112222
SHEET P.168 TOTAL 169

TRAFFIC CONTROL PLANS
CR-229 & CR-198 INTERSECTION

HORIZONTAL SCALE IN FEET
0 20
10 40



HORIZONTAL SCALE IN FEET
0 50 100
25

ROUNDABOUT LIGHTING PLAN

CTY-RTE-SECTION

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 7/28/2024 TIME: 6:39:01 PM USER: PIA81677
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DESIGN AGENCY
MOTT MACDONALD
20445 EMERALD PKWY
SUITE 100
CLEVELAND, OH 44135

DESIGNER
SMS

REVIEWER
SJP 07/26/24

PROJECT ID
112222

SHEET P.169 | TOTAL 169


ISAAC N. DECKER
PARCEL NO: 10-01-00-0063-00
2507 E. STATE STREET
FREMONT, OH 43420
O.R. 201800000301
DONALD L. & SHIRLEY A. ANSTEAD, TRUST
PARCEL NO: 06-06-00-0022-00
2630 E. STATE STREET
FREMONT, OH 43420
WD. BOOK 416, PG. 504
500
501
502
503
504
505
506
507

HELEN M. BARTSON, TRUSTEE
PARCEL NO'S: 06-06-00-0024-00 & 06-06-00-0025-00
3068 A E. STATE STREET
FREMONT, OH 434206
O.R, 201100001120

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TIFFANY L. LEWIS
PARCEL NO: 06-06-00-0015-01
306 E. STATE STREET
FREMONT, OH 43206
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MICHAEL C. GRUSS, TRUSTEE
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