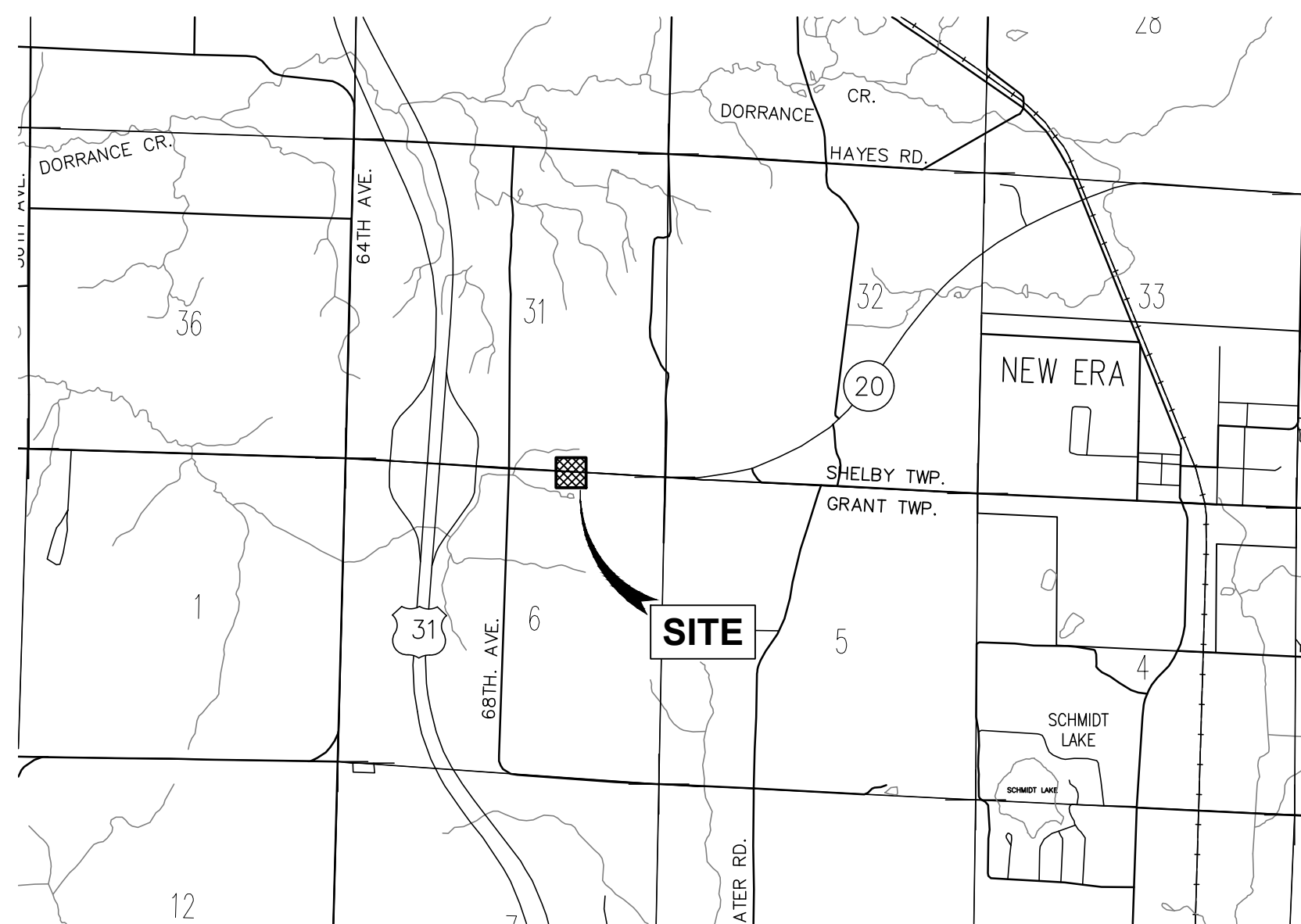
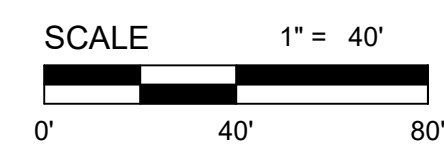
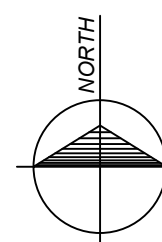


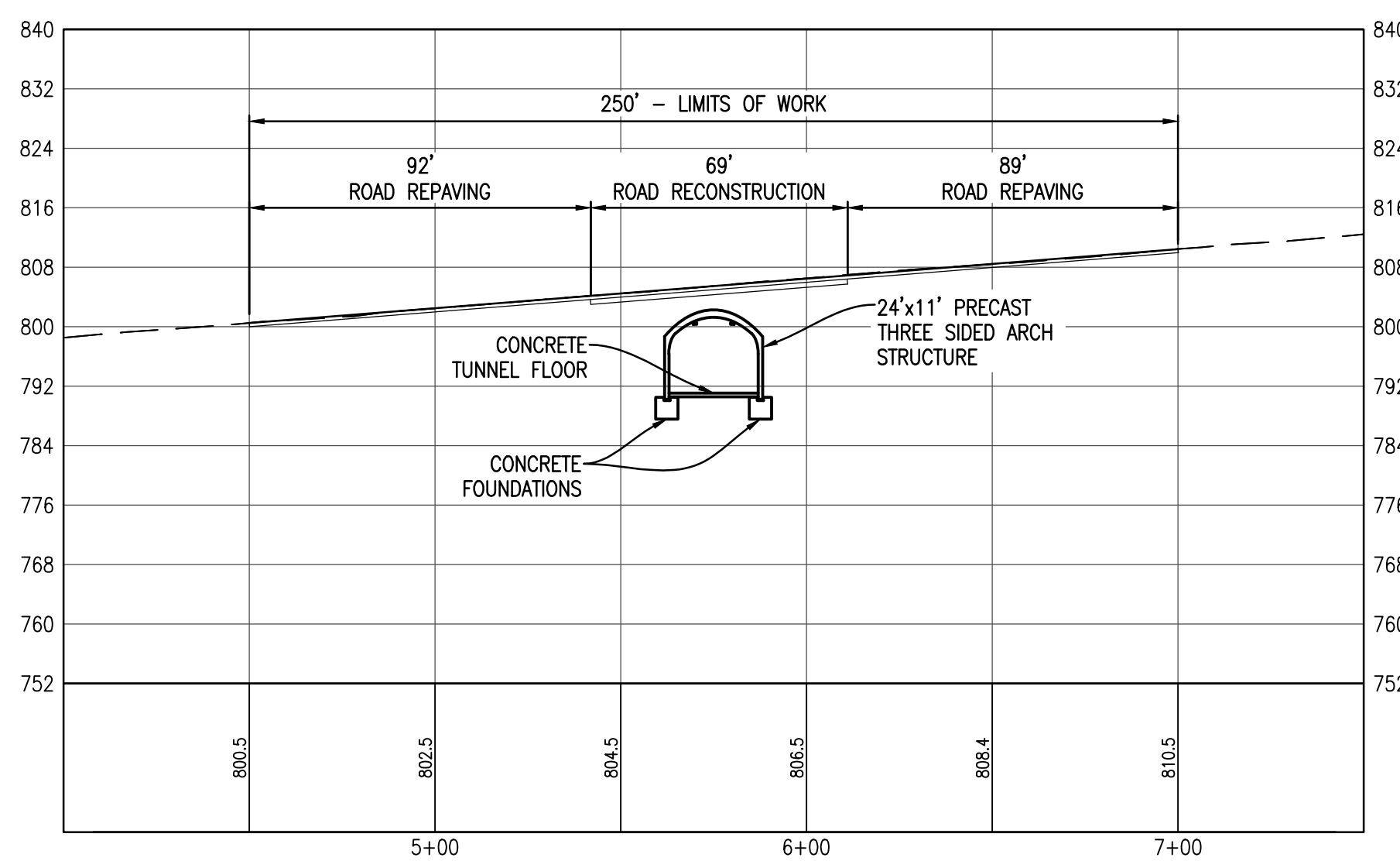


CONCEPTUAL TUNNEL SITE PLAN

SCALE: 1" = 40'



VICINITY MAP
 SCALE: 1"=2500'



PROFILE ALONG M-20
 SCALE HORIZ.: 1" = 40'
 VERT.: 1" = 20'

KEYED NOTES

- 1 PRECAST TUNNEL STRUCTURE
- 2 PRECAST WINGWALL, TYP.
- 3 GUARDRAIL
- 4 CURB AND GUTTER
- 5 MODULAR BLOCK RETAINING WALL
- 6 DRAINAGE FLARED END SECTION, TYP.
- 7 DRAINAGE CATCH BASIN OR MANHOLE STRUCTURE, TYP.
- 8 DRAINAGE STORM SEWER, TYP.
- 9 RIPRAP ENERGY DISSIPATOR
- 10 M-20 ROAD RECONSTRUCTION
- 11 ASPHALT PATH
- 12 CONCRETE PATH

NOTES

BASE MAPPING PREPARED FROM PUBLIC DOMAIN AERIAL IMAGERY AND LIDAR TOPOGRAPHIC DATA.
 PLANS PREPARED FOR THE PURPOSES OF PROJECT SCOPING AND ESTIMATING. NOT FOR CONSTRUCTION.

No.	Date	Revision	By

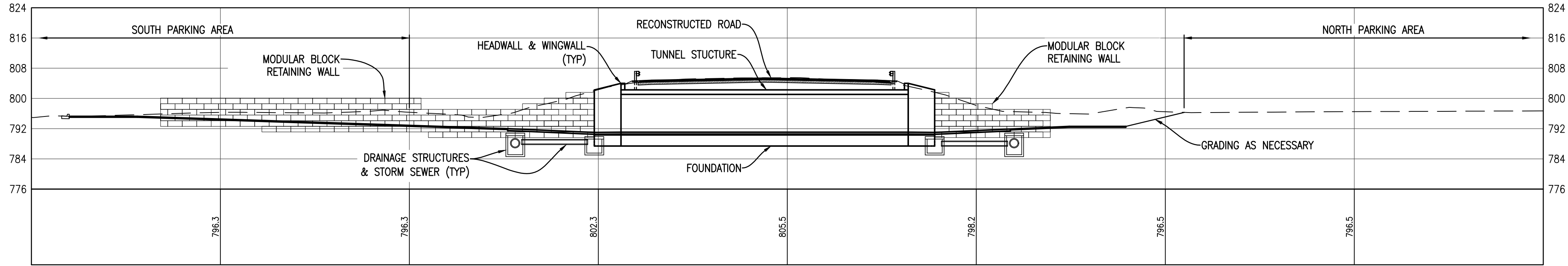
CONCEPTUAL TUNNEL SITE PLAN
LEWIS ADVENTURE FARM & ZOO M-20 TUNNEL
 SHELBY TOWNSHIP

Date Issued: 12-8-2023
 Date Surveyed:
 Designed By: RMV
 Drawn By: RMV
 Checked By:
 Scale: AS NOTED
 Original sheet size is 22x34

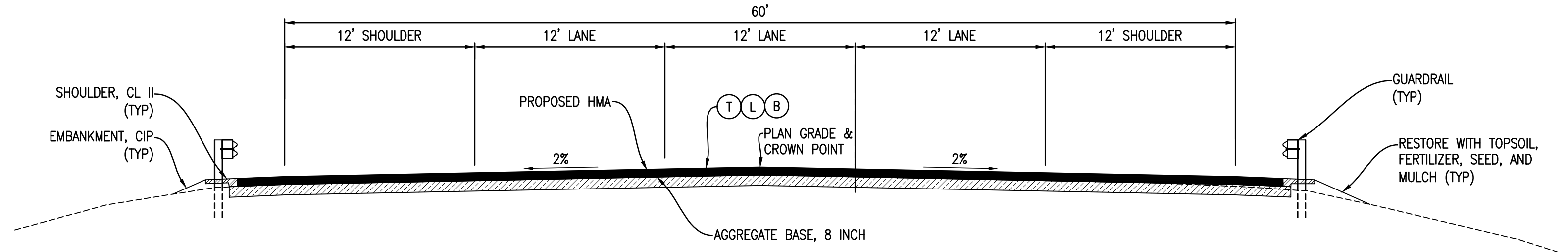
Location:
 PARTS OF SECTION 6, T13N, R17W
 GRANT TOWNSHIP & SECTION 31,
 T14N, R17W SHELBY TOWNSHIP
 OCEANA COUNTY
 MICHIGAN

Project Number:
 2023409001

Sheet:
1



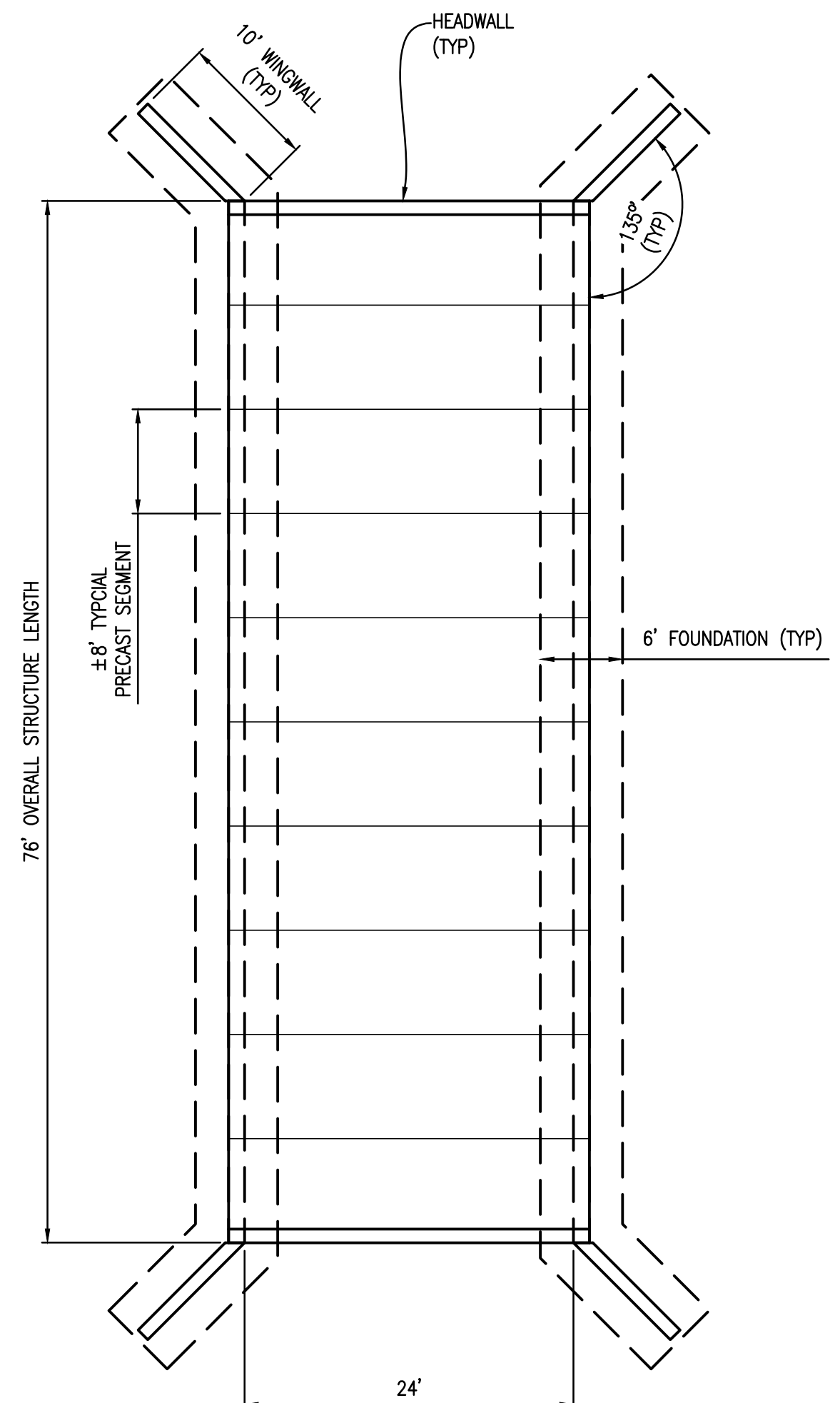
LONGITUDINAL STRUCTURE SECTION 'A'
 SCALE: 1" = 20'



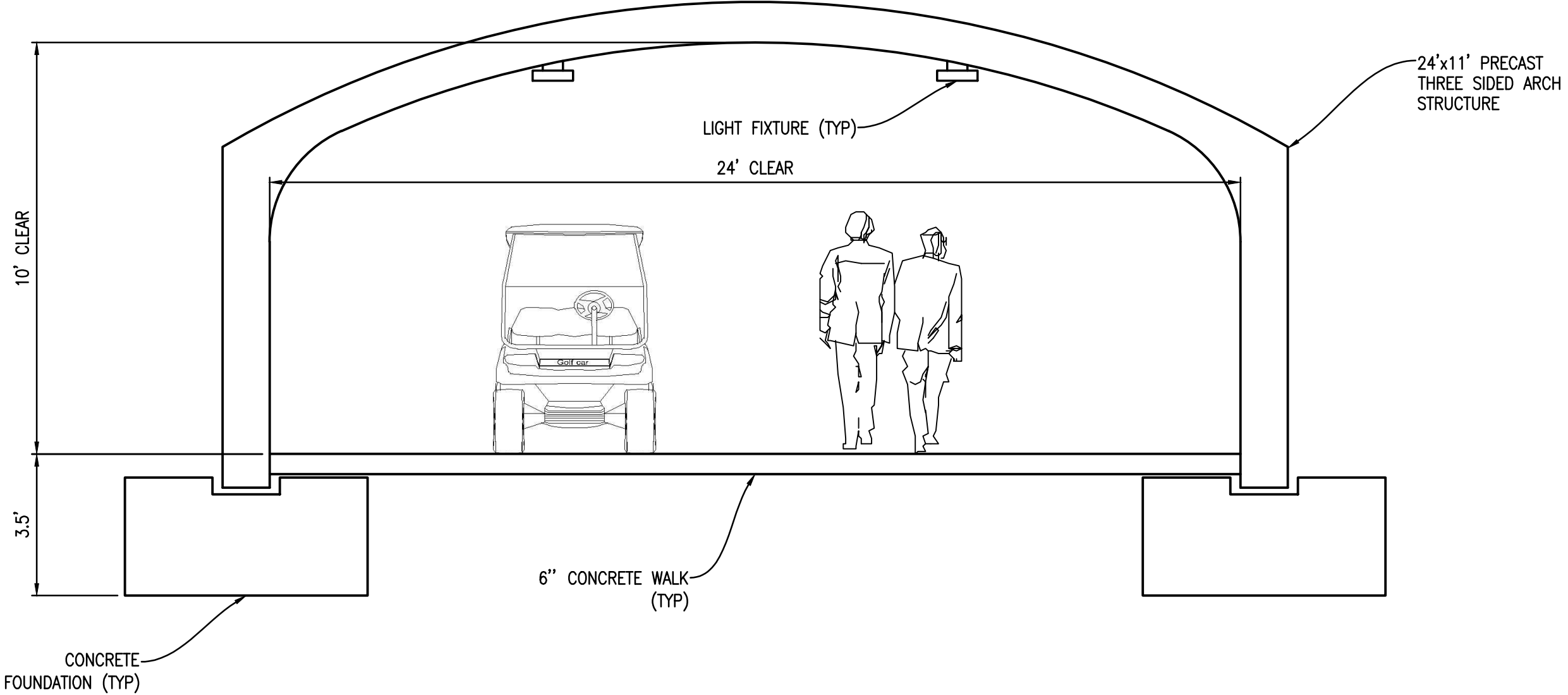
TYPICAL ROAD RECONSTRUCTION SECTION
 NO SCALE

HMA APPLICATION ESTIMATE

IDENT. NO.	ITEM	RATE PER SYD	PG-GRADE	REMARKS	AWI (MIN.)
B	HMA 2EML	220 LB	58-28	LEVELING COURSE	N/A
L	HMA 3EML	220 LB	58-28	LEVELING COURSE	N/A
T	HMA 4EML	220 LB	58-28	TOP COURSE	220
	BOND COAT	0.05-0.15 GAL		FOR INFORMATION ONLY	



STRUCTURE PLAN
 SCALE: 1" = 10'



STRUCTURE SECTION
 SCALE: 1" = 3'

No.	Date	Revision	By

CONCEPTUAL TUNNEL PLAN & SECTIONS
LEWIS ADVENTURE FARM & ZOO M-20 TUNNEL
 SHELBY TOWNSHIP

Date Issued: 12-8-2023
 Date Surveyed:
 Designed By: RMV
 Drawn By: RMV
 Checked By:
 Scale: AS NOTED
 Original sheet size is 22x34

Location:
 PARTS OF SECTION 6, T13N, R17W
 GRANT TOWNSHIP & SECTION 31,
 T14N, R17W SHELBY TOWNSHIP
 OCEANA COUNTY
 MICHIGAN

Project Number:
 2023409001

Sheet:
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