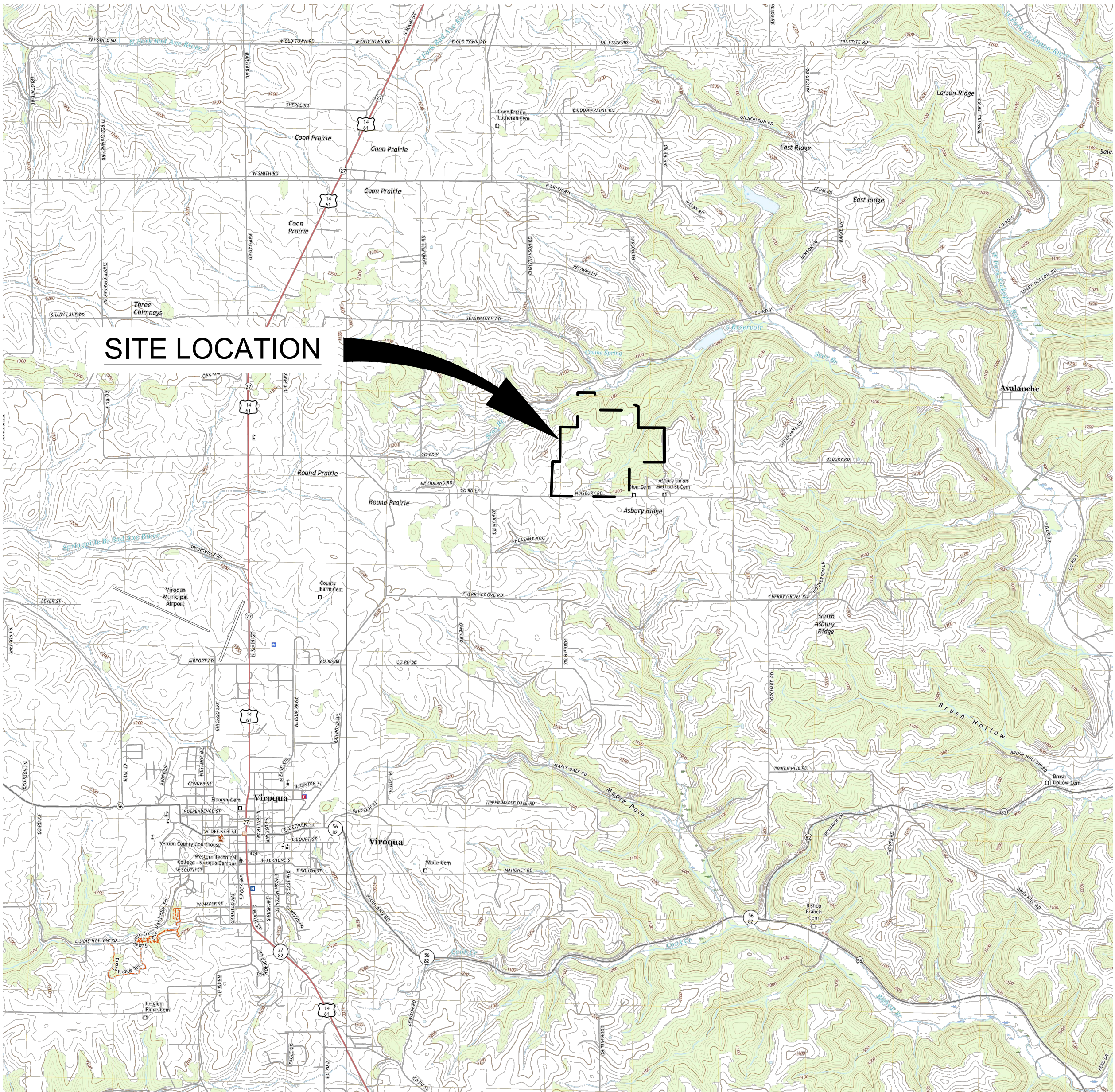
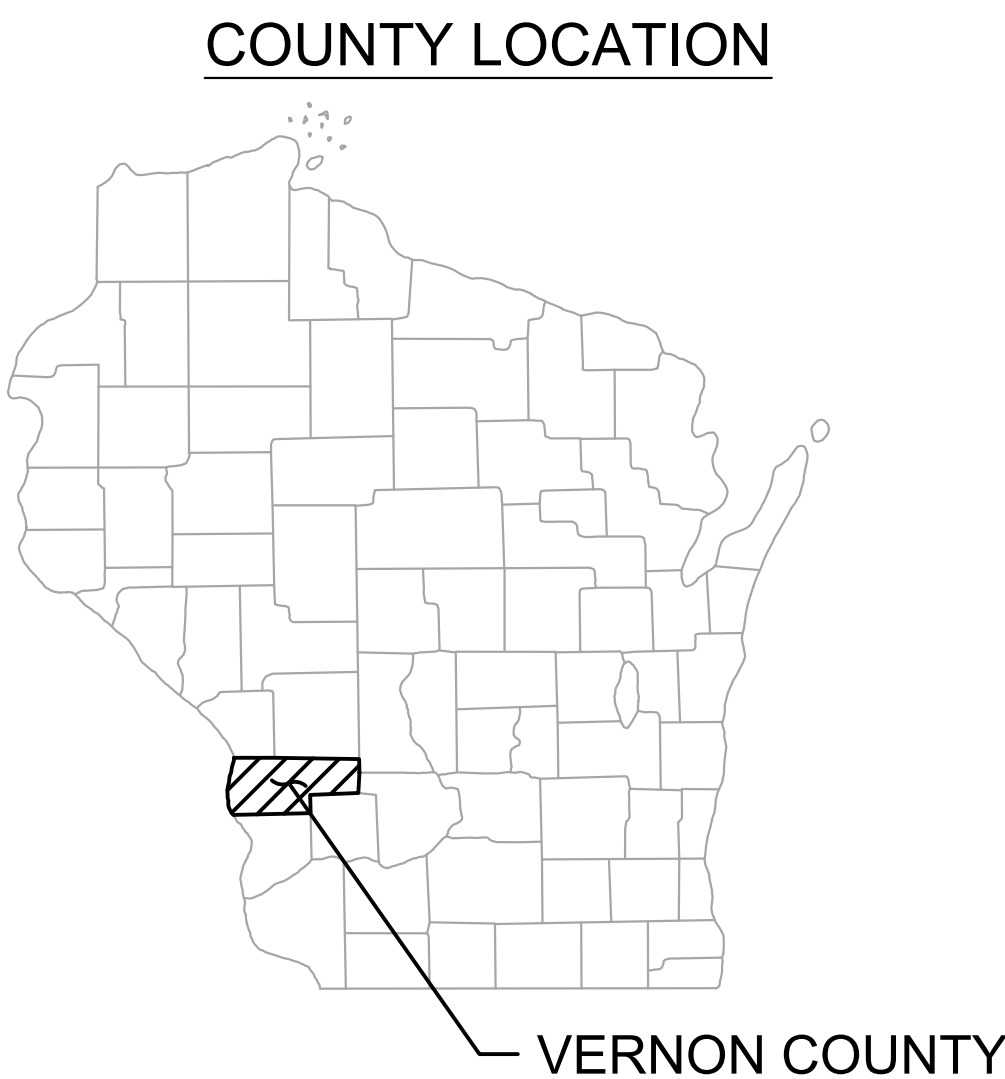


VERNON COUNTY LANDFILL
FEASIBILITY REPORT FOR THE PROPOSED
EASTERN HORIZONTAL AND VERTICAL EXPANSION
VIROQUA, WISCONSIN



REPRODUCED FROM USGS QUADRANGLES
VIROQUA / AVALANCHE / WESTBY / ESOFEA
WISCONSIN - VERNON COUNTY
7.5-MINUTE SERIES

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PREPARED FOR:



VERNON COUNTY SOLID WASTE DEPARTMENT
PHONE: 608.634.2900
53705 COUNTY HIGHWAY LF
VIROQUA, WISCONSIN 54665

PREPARED BY:



SHORT ELLIOT HENDRICKSON INC.
329 JAY STREET
SUITE 301
LA CROSSE, WISCONSIN 54601-4034
PHONE: 1.608.782.3161
www.sehinc.com

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.

Signature

DARRYL R. HEAPS
Date: 11/19/2024
Lic. No. E-25799-6

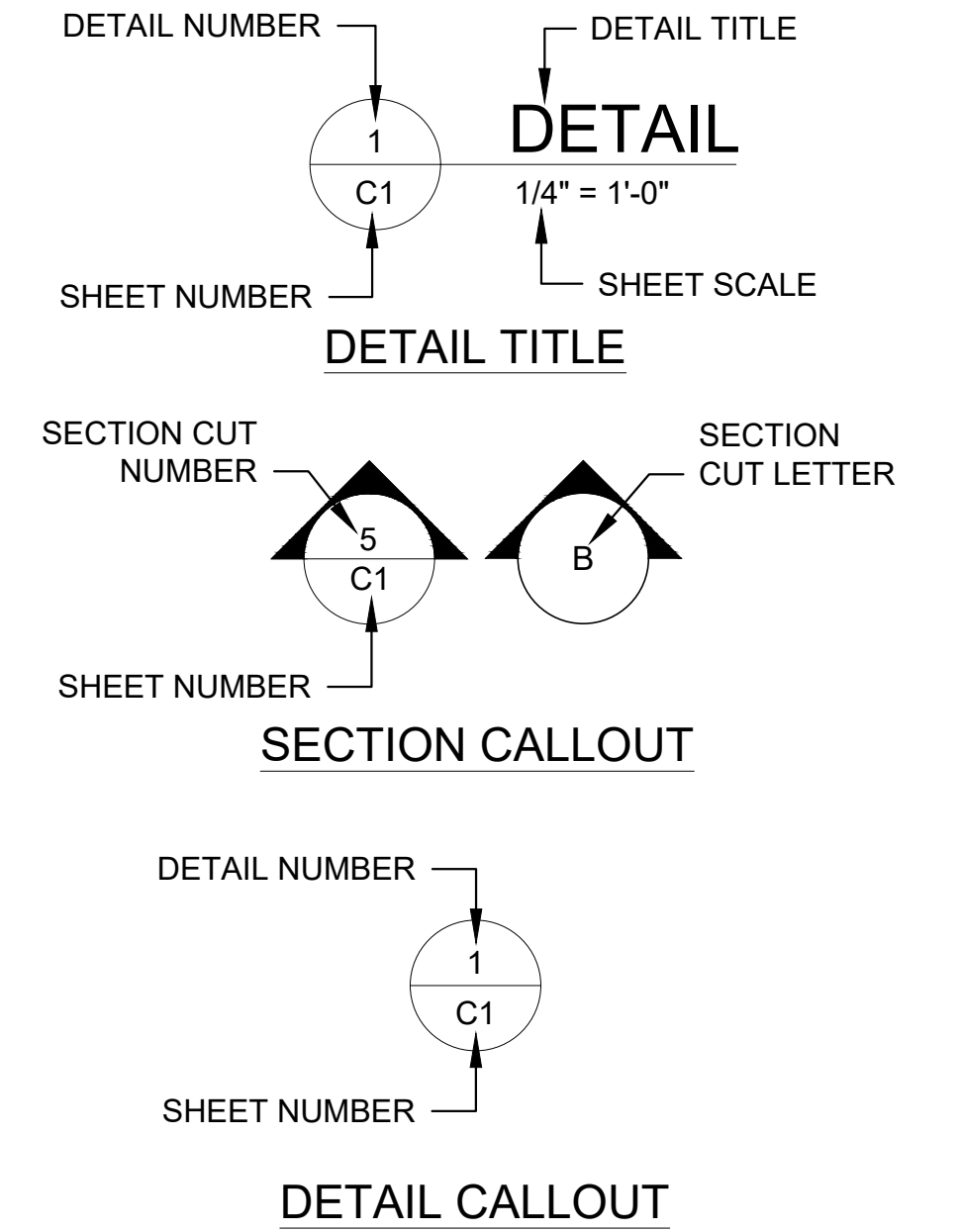
PROJECT NO.
VERSW 167824

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of 36

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LEGEND			
EXISTING		PROPOSED	
	MAJOR GROUND CONTOUR		MAJOR GROUND CONTOUR
	MINOR GROUND CONTOUR		MINOR GROUND CONTOUR
	UNDERGROUND ELECTRIC LINE		ACCESS ROAD
	OVERHEAD ELECTRIC LINE		TOP OF LEACHATE COLLECTION TRENCH
	UNDERGROUND TELEPHONE		LEACHATE COLLECTION PIPE WITH LEACHATE CLEANOUT RISER
	FIBER OPTIC		LIMITS OF FINAL CLOSURE
	UNDERGROUND CHARTER CABLE		WASTE LIMITS
	WATER SUPPLY PIPE		DITCH BOTTOM
	WATER PIPE ABANDONED IN PLACE		DOWNSLOPE CHANNEL
	SANITARY SEWER PIPE		SURFACE WATER DIVERSION BERM (FLOW LINE)
	STORM WATER PIPE		CHAIN LINK FENCE
	LEACHATE PIPE		SILT FENCE
	LEACHATE FORCEMAIN		CULVERT WITH FES
	GAS PIPE		RIPRAP
	LANDFILL GAS PIPE (PERMANENT)		TRACKING PAD
	LANDFILL GAS STOC PIPE (TEMPORARY)		BIOROLL
	COMPRESSED AIR PIPE		SURFACE WATER FLOW DIRECTION
	CONDENSATE PIPE		LEACHATE HEAD WELL
	DRAIN TILE PIPE		LANDFILL GAS COLLECTION WELL
	FENCE		LANDFILL GAS VALVE
	CHAIN LINK FENCE		LANDFILL GAS CLEANOUT
	CLOSED DEMOLITION SITE LIMITS		LEACHATE MANHOLE
	APPROVED WASTE LIMITS		
	PHASED LANDFILL LIMITS		
	PERMANENT EASEMENT		
	PROPERTY LINE		
	PAVED ROAD		
	UNPAVED ROAD		
	TRAIL		
	RIPRAP		
	STORM CULVERT PIPE		
	TREELINE		
	TREE		
	BUILDING		
	PUMP BUILDING		
	ELECTRICAL TRANSFORMER		
	UTILITY POLE		
	SANITARY SEWER MANHOLE		
	STORM SEWER MANHOLE		
	CLEANOUT PIPE		
	MANHOLE		
	LEACHATE HEAD WELL		
	LANDFILL GAS VENT		
	LANDFILL GAS WELL		
	LANDFILL GAS VALVE		
	LANDFILL GAS CLEANOUT		
	GAS PROBE		
	GROUNDWATER MONITORING WELL		

CROSS REFERENCE SYSTEM



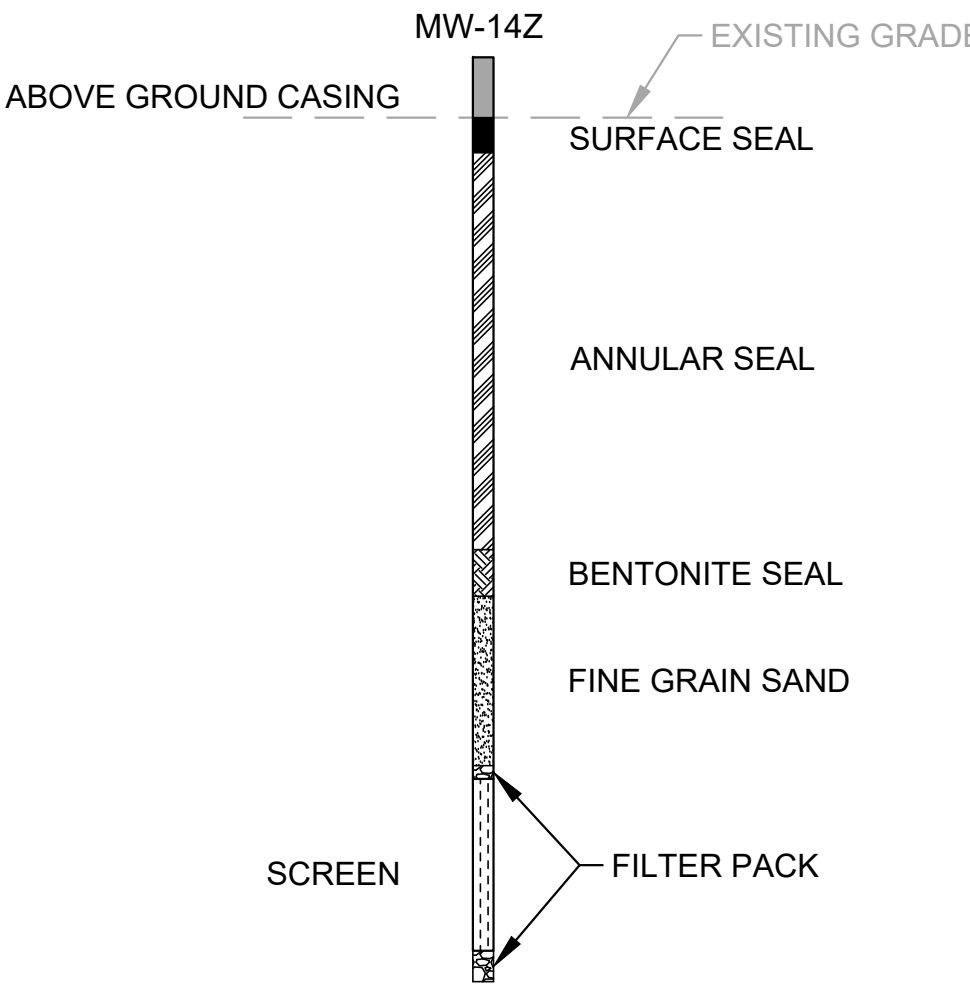
LIST OF ABBREVIATIONS

APPROX=	APPROXIMATE	MAX	=	MAXIMUM	
CB	=	CATCH BASIN	MIN	=	MINIMUM
CF	=	CUBIC FOOT	NO	=	NUMBER
CL	=	CENTERLINE	OD	=	OUTSIDE DIAMETER
CY	=	CUBIC YARD	OC	=	ON CENTER
DIA	=	DIAMETER	PH	=	PHASE
EL	=	ELEVATION	PT	=	POINT
EW	=	EACH WAY	RAD	=	RADIUS
EXIST	=	EXISTING	SCH	=	SCHEDULE
FES	=	FLARED END SECTION	SDR	=	STRUCTURAL DESIGN RATING
FL	=	FLOW LINE	SSR	=	SIDE SLOPE RISER
FML	=	FLEXIBLE MEMBRANE LINER	SST	=	STAINLESS STEEL
FT	=	FOOT/FEET	STOC	=	SHORT TERM ODOR CONTROL
GCL	=	GEOSYNTHETIC CLAY LINER	TYP	=	TYPICAL
HDPE	=	HIGH DENSITY POLYETHYLENE	UNO	=	UNLESS NOTED OTHERWISE
ID	=	INSIDE DIAMETER			
INV	=	INVERT			
LCHT	=	LEACHATE			
LLDPE	=	LINEAR LOW DENSITY POLYETHYLENE			
LFG	=	LANDFILL GAS			

UNIFIED SOIL CLASSIFICATION SYSTEM (USCS)

GW	=	WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL	ML	=	SILT
GP	=	POORLY GRADED GRAVEL	CL	=	LEAN CLAY
GM	=	SILTY GRAVEL	OL	=	ORGANIC SILT, ORGANIC CLAY
GC	=	CLAYEY GRAVEL	MH	=	ELASTIC SILT
SW	=	WELL-GRADED SAND, FINE TO COARSE SAND	CH	=	FAT CLAY
SP	=	POORLY GRADED SAND	OH	=	ORGANIC CLAY, ORGANIC SILT
SM	=	SILTY SAND	PT	=	PEAT
SC	=	CLAYEY SAND			

WELL CONSTRUCTION LEGEND



GENERAL NOTES:

- SITE LOCATION: A PORTION OF THE SW AND SE 1/4, OF SECTION 15, T13N, R4W, CITY OF VIROQUA, VERNON COUNTY, WISCONSIN.
- HORIZONTAL GRID SYSTEM BASED ON THE LOCAL COORDINATE SYSTEM.
- ELEVATIONS BASED ON NAVD 88 DATUM.
- TOPOGRAPHIC BASE MAP UPDATED WITH LATEST SITE SURVEYS BY THE COUNTY IN JUNE 2023.
- EXISTING TOPOGRAPHY SHOWN MAY NOT REPRESENT ACTUAL/CURRENT SITE CONDITIONS DUE TO RECENT AND CURRENT CONSTRUCTION AND WASTE PLACEMENT ACTIVITIES.
- CONTOUR INTERVAL IS 2-FOOT. UNLESS NOTED OTHERWISE.
- TRANSFORMATION IN 2D (ROTATION, SCALE, TRANSLATION):

LOCAL TO VERNON COUNTY COORDINATE SYSTEM
ROTATION (θ) = 0°41'19.1"
SCALE = 1.0000027029
TRANSLATION (NORTHING, EASTING) = (163394.864 FT, 713791.666 FT)

LOCAL TO WISCONSIN STATE PLANE - SOUTH COORDINATE SYSTEM
ROTATION (θ) = 1°13'37.1"
SCALE = 0.9999002624
TRANSLATION (NORTHING, EASTING) = (582619.979 FT, 1744797.817 FT)

NOTE: FINAL POINT = ROTATION * (SCALE * (INITIAL POINT - ORIGIN)) + ORIGIN + TRANSLATION. ROTATIONS ARE CLOCKWISE POSITIVE AND ARE APPLIED IN THE ORDER YXZ.
- SITE CONTROL POINTS:

POINT	COORDINATE SYSTEM					
	LOCAL		VERNON COUNTY		STATE PLANE - SOUTH	
	NORTHING	EASTING	NORTHING	EASTING	NORTHING	EASTING
SCP-12	1300	1000.02	164694.87	714791.7	583919.949	1745797.832
SCP-14	139.08	1080.96	163533.05	714858.7	582757.622	1745853.957
P-16	1748.93	2632.61	165124.13	716429.6	584333.794	1747439.504

SEH Project	VERSW 167824	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
Drawn By	NRP						
Designed By	TTR						
Checked By	DRH						

ADDENDUM NO. 1	11/19/2024
ISSUED FOR REGULATORY REVIEW	09/11/2023

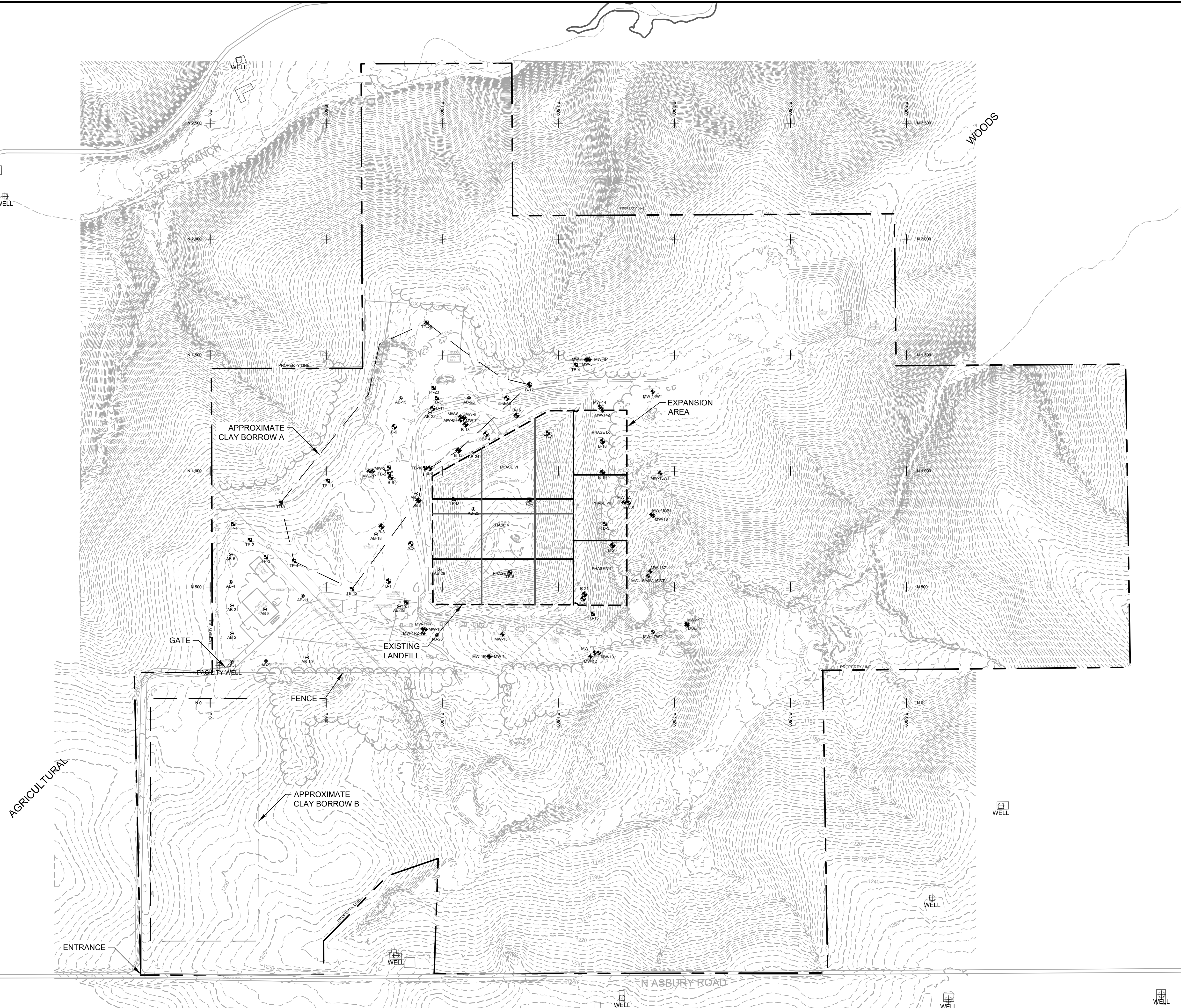


PLANS PREPARED BY:
329 JAY STREET
SUITE 301
LA CROSSE, WI 54601-4034
PHONE: 1.608.782.3161

PLANS PREPARED FOR:
VERNON COUNTY SOLID WASTE DEPT
53705 CTH LF
VIROQUA, WISCONSIN

VERNON COUNTY LANDFILL
FEASIBILITY STUDY
ABBREVIATIONS, LEGEND & GENERAL NOTES

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NOTES:

1. CONTOUR INTERVAL IS 10-FOOT MAJOR AND 2-FOOT MINOR.
2. EXISTING GRADE CONTOURS PRODUCED BY MOST RECENT SURVEY BY THE COUNTY ON JUNE 6, 2023 OVERLAY WITH 2020 LIDAR DATA.

SEH Project	VERSW 167824	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
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