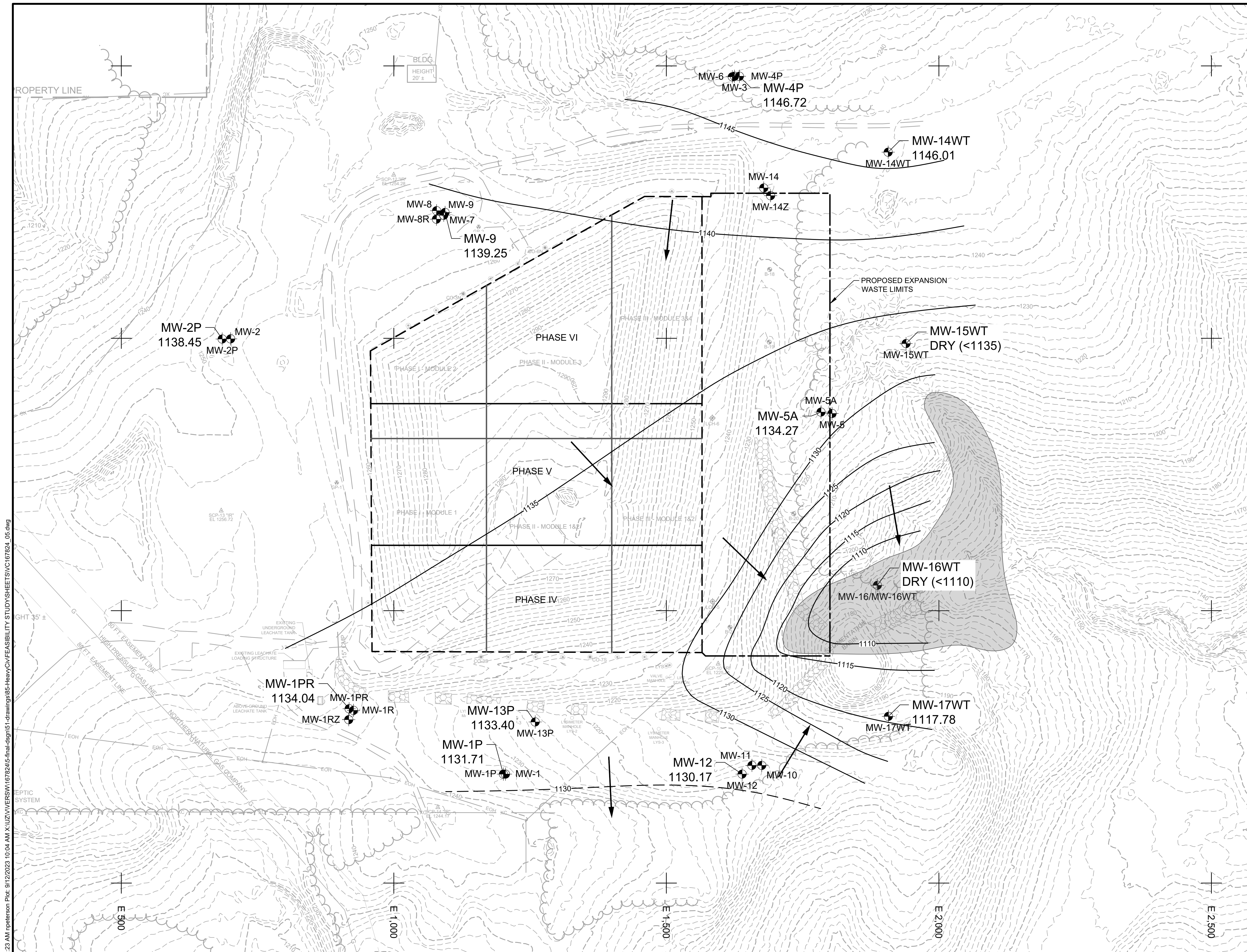
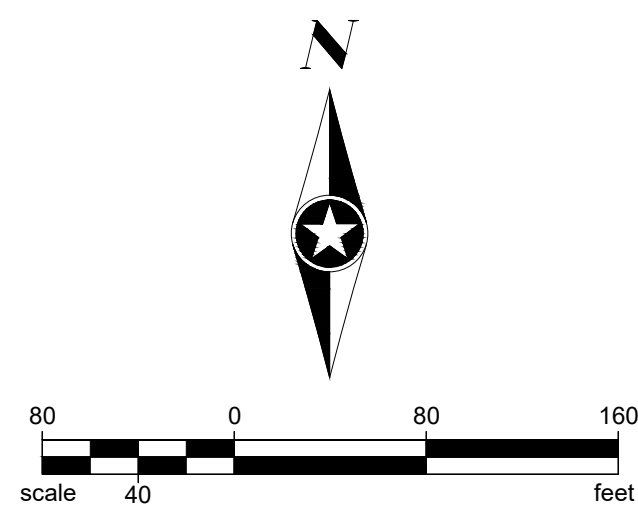


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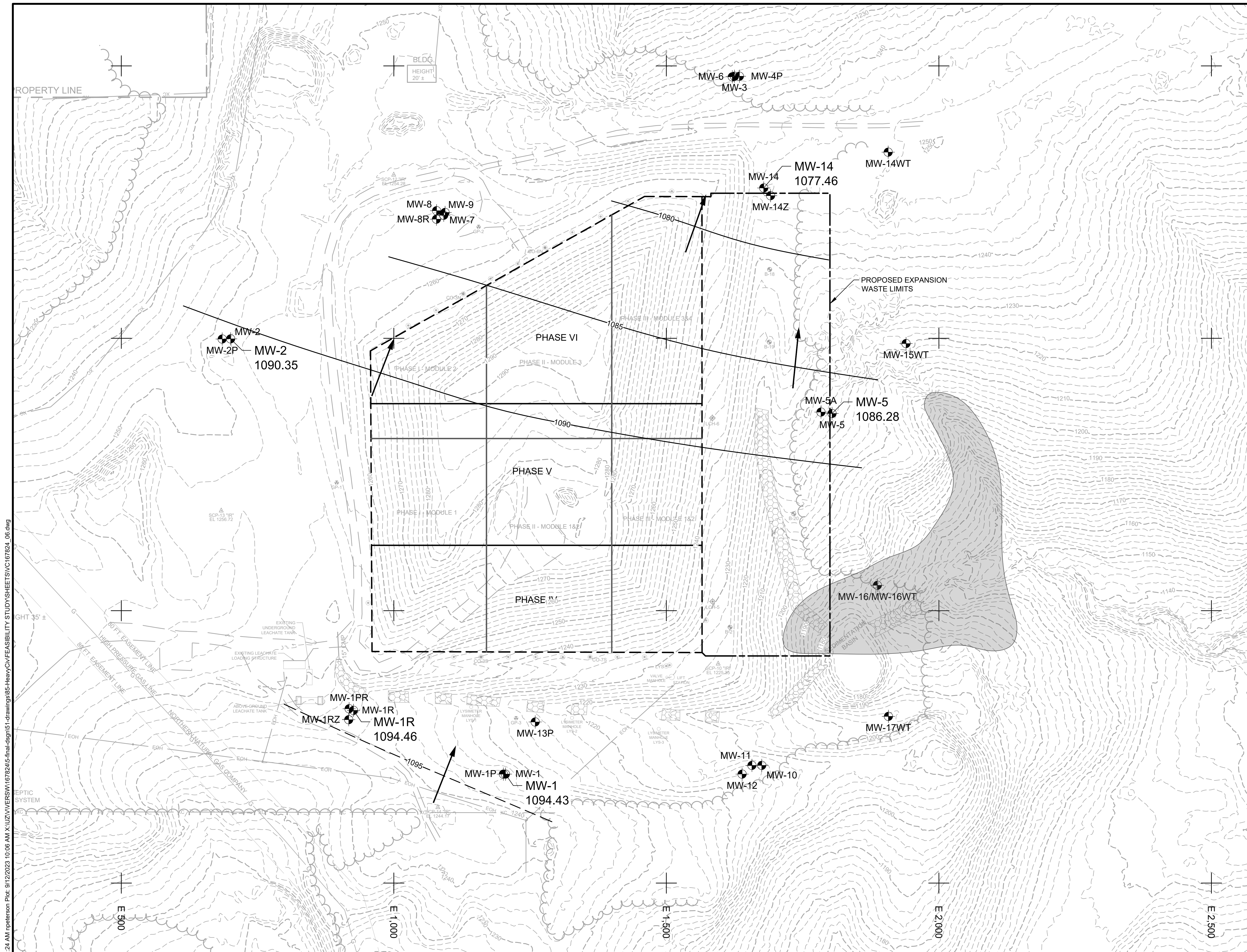


- NOTES:
- TOPOGRAPHIC CONTOUR INTERVAL IS 10-FOOT MAJOR AND 2-FOOT MINOR.
 - GROUNDWATER CONTOUR INTERVAL IS 5-FOOT.
- LEGEND:
- Static Water Elevation - FT (JANUARY 24, 2023)
 - APPROXIMATE AREA WHERE PERCHED WATER TABLE MERGES WITH THE REGIONAL WATER TABLE.
 - EXISTING MONITORING WELL
 - GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
 - GROUNDWATER FLOW LINE
 - PROPOSED WASTE LIMITS
 - ACTIVE WASTE LIMITS



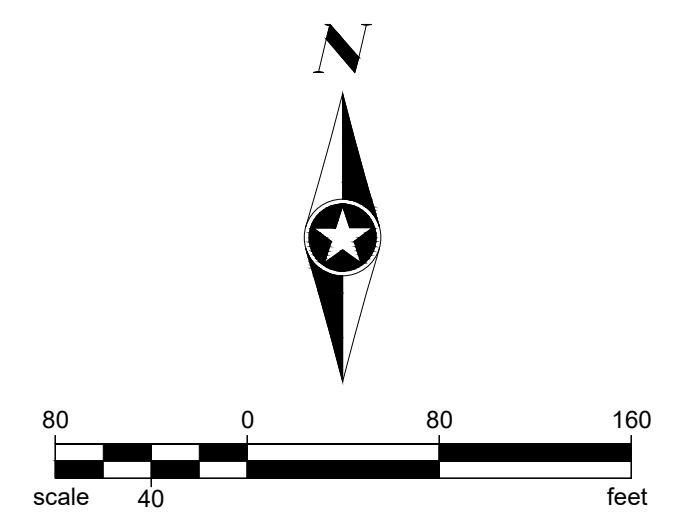
SEH Project		VERSW 167824	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date		PLANS PREPARED BY:		PLANS PREPARED FOR:		VERNON COUNTY LANDFILL FEASIBILITY STUDY		5
Drawn By		NRP	-	-	-	-	-	-		329 JAY STREET		VERNON COUNTY SOLID WASTE DEPT		LOW PERCHED WATER TABLE MAP (JAN 2023)		
Designed By		TTR	-	-	-	-	-	-		SUITE 301		53705 CTH LF				
Checked By		DRH	-	ISSUED FOR REGULATORY REVIEW	09/11/2023	-	-	-		LA CROSSE, WI 54601-4034		VIROQUA, WISCONSIN		of 35		
Save: 9/11/2023										PHONE: 1.608.782.3161						

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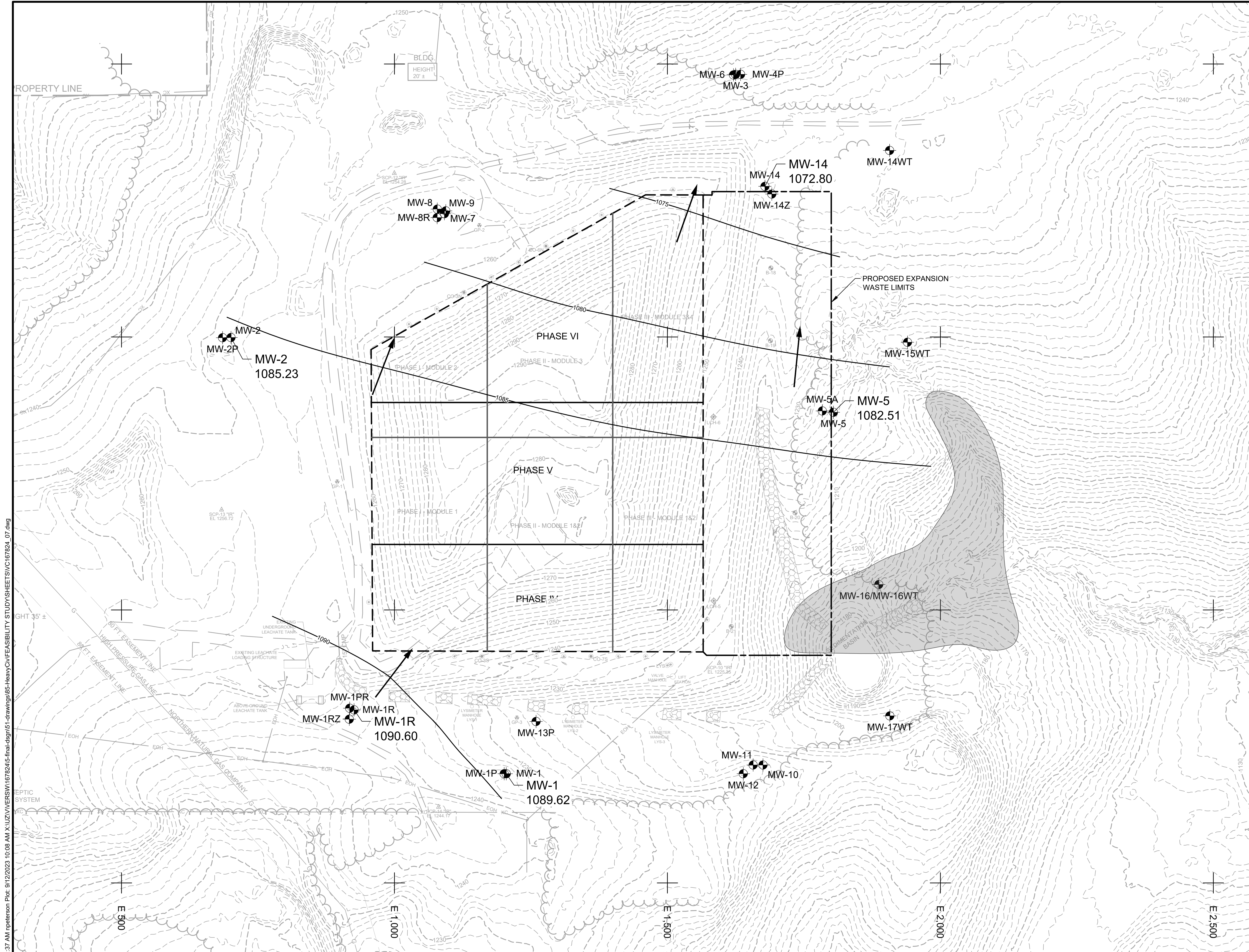


- NOTES:
1. TOPOGRAPHIC CONTOUR INTERVAL IS 10-FOOT MAJOR AND 2-FOOT MINOR.
 2. GROUNDWATER CONTOUR INTERVAL IS 5-FOOT.
 3. MONITORING WELLS MW-1, MW-5 AND MW-16 HAD WATER LEVELS SIGNIFICANTLY ABOVE THE SCREEN INTERVAL DURING THIS MONITORING EVENT BUT AFTER FURTHER EVALUATION ARE STILL CONSIDERED REPRESENTATIVE OF REGIONAL WATER TABLE CONDITIONS.

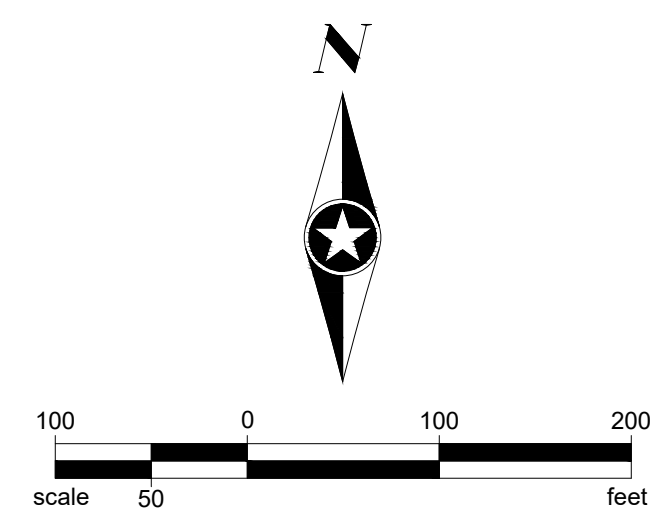
- LEGEND:
- STATIC WATER ELEVATION - FT (MAY 30, 2023)
 - APPROXIMATE AREA WHERE PERCHED WATER TABLE MERGES WITH THE REGIONAL WATER TABLE.
 - EXISTING MONITORING WELL
 - GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
 - GROUNDWATER FLOW LINE
 - PROPOSED WASTE LIMITS
 - ACTIVE WASTE LIMITS



SEH Project		VERSW 167824	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date		PLANS PREPARED BY:		PLANS PREPARED FOR:		VERNON COUNTY LANDFILL FEASIBILITY STUDY		6
Drawn By		NRP	-			-				329 JAY STREET SUITE 301		VERNON COUNTY SOLID WASTE DEPT		HIGH REGIONAL WATER TABLE MAP (MAY 2023)		
Designed By		TTR	-			-				LA CROSSE, WI 54601-4034		53705 CTH LF				
Checked By		DRH	-	ISSUED FOR REGULATORY REVIEW	09/11/2023	-				PHONE: 1.608.782.3161		VIROQUA, WISCONSIN				
																of 35



- NOTES:
1. TOPOGRAPHIC CONTOUR INTERVAL IS 10-FOOT MAJOR AND 2-FOOT MINOR.
 2. GROUNDWATER CONTOUR INTERVAL IS 5-FOOT.
 3. MONITORING WELLS MW-1, MW-5 AND MW-16 HAD WATER LEVELS SIGNIFICANTLY ABOVE THE SCREEN INTERVAL DURING THIS MONITORING EVENT BUT AFTER FURTHER EVALUATION ARE STILL CONSIDERED REPRESENTATIVE OF REGIONAL WATER TABLE CONDITIONS.
- LEGEND:
- MW-5 / 1082.51 — STATIC WATER ELEVATION - FT (JANUARY 24, 2023)
 - APPROXIMATE AREA WHERE PERCHED WATER TABLE MERGES WITH THE REGIONAL WATER TABLE.
 - EXISTING MONITORING WELL
 - 1085 — GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
 - ← GROUNDWATER FLOW LINE
 - PROPOSED WASTE LIMITS
 - - - - - ACTIVE WASTE LIMITS



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Save: 9/11/2023

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

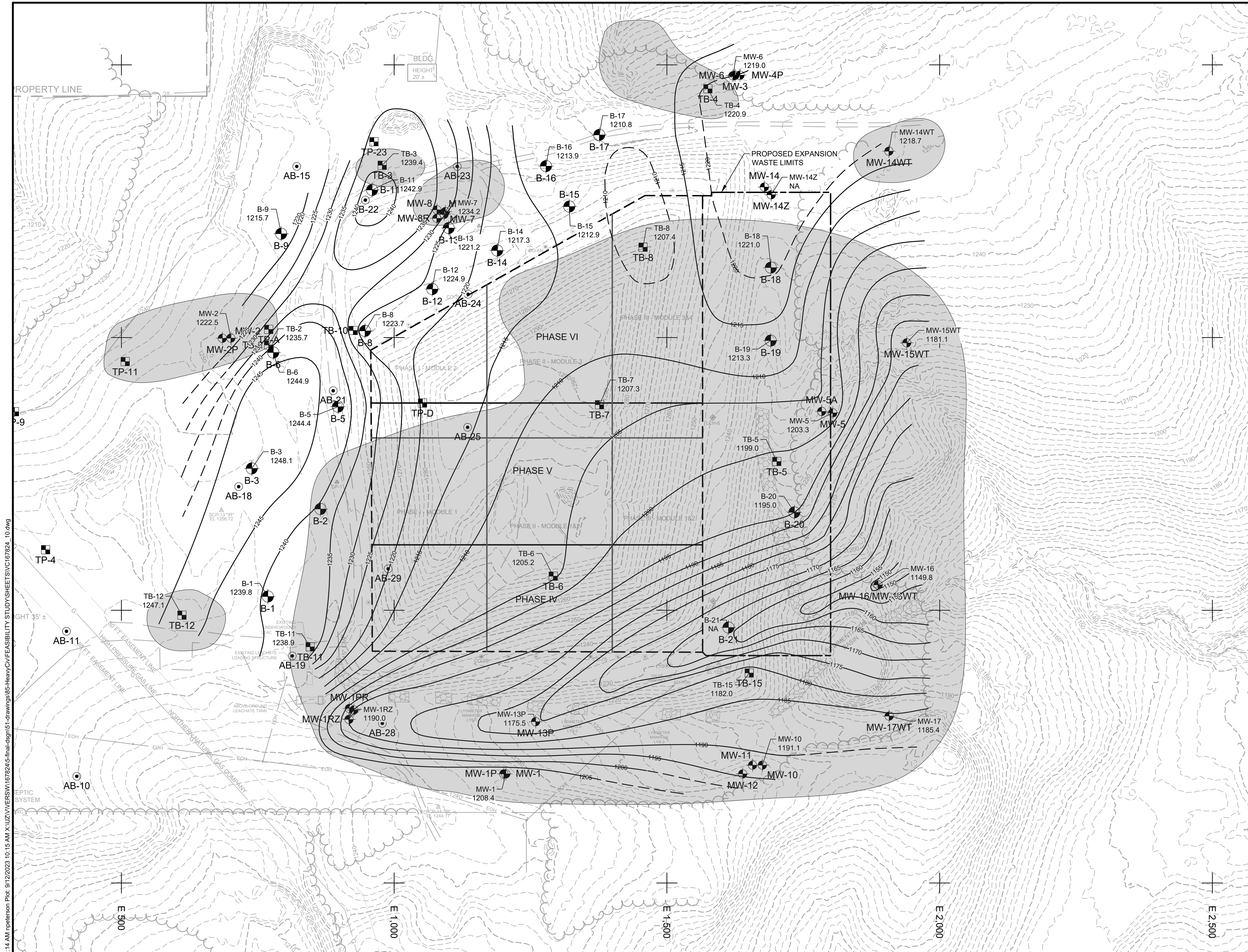
PLANS PREPARED FOR:
VERNON COUNTY SOLID WASTE DEPT
53705 CTH LF
VIROQUA, WISCONSIN

VERNON COUNTY LANDFILL
FEASIBILITY STUDY

LOW REGIONAL WATER TABLE MAP (JAN 2023)

7

of 35



- NOTES:
- TOPOGRAPHIC CONTOUR INTERVAL IS 10-FOOT MAJOR AND 2-FOOT MINOR.
 - BEDROCK CONTOUR INTERVAL IS 5-FOOT.
- LEGEND:
- MW-14WT 1218.7
 - 1215
 - MW-14Z
 - B-21
 - TB-15
 - AREA WHERE UPPERMOST BEDROCK SURFACE IS SAPROLITE
 - PROPOSED WASTE LIMITS
 - ACTIVE WASTE LIMITS
 - BEDROCK ELEVATION
 - TOP OF BEDROCK CONTOUR (DASHED WHERE INFERRED)
 - MONITORING WELL
 - SOIL BORING
 - TEST BORING

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SEH Project	VERSW 167824	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
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Designed By	TTR						
Checked By	DRH						
			ISSUED FOR REGULATORY REVIEW	09/11/2023			

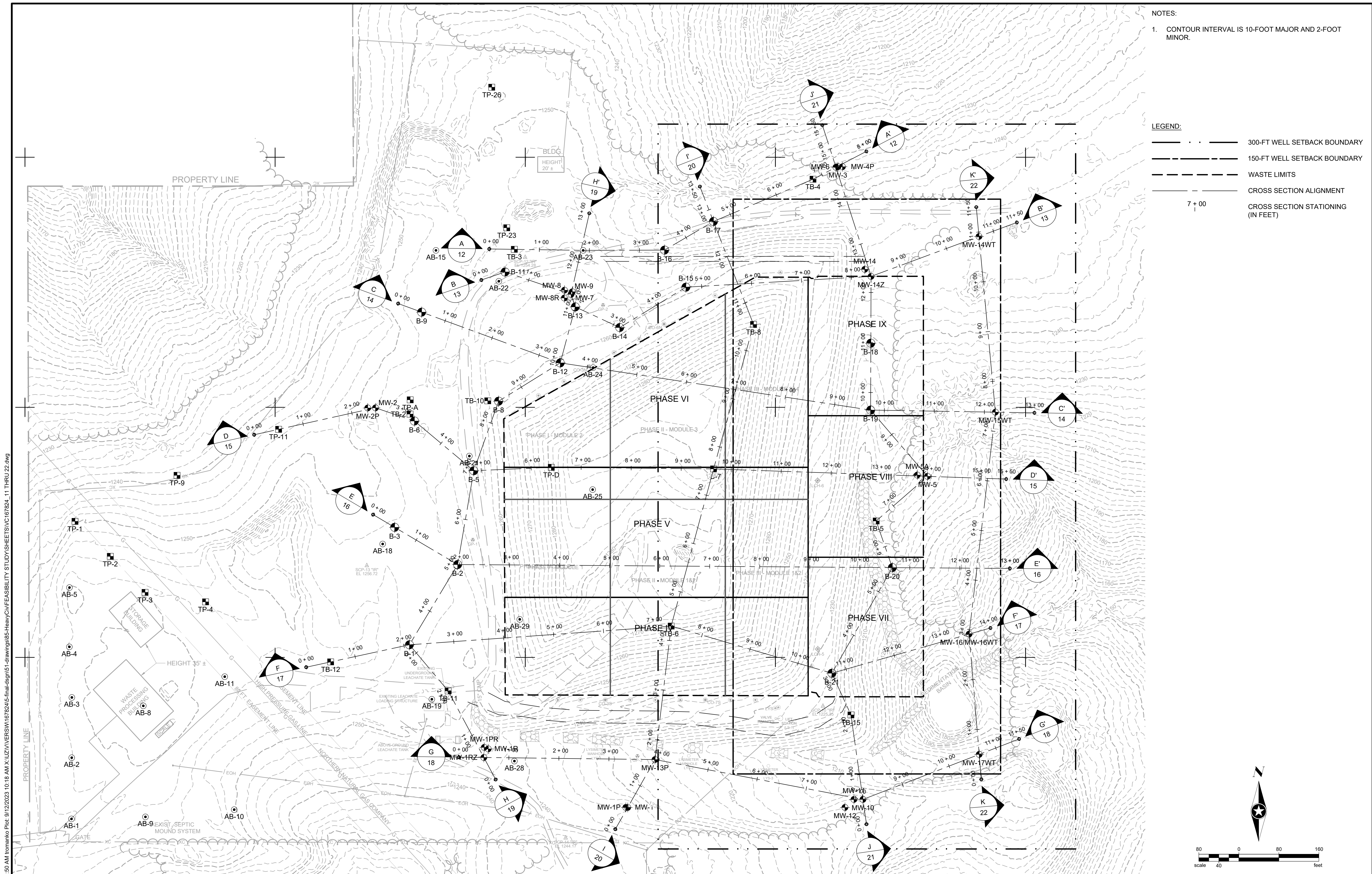


PLANS PREPARED BY:
329 JAY STREET
SUITE 301
LA CROSSE, WI 54601-4034
PHONE: 1.608.782.3161

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

VERNON COUNTY LANDFILL
FEASIBILITY STUDY
BEDROCK SURFACE MAP

Save: 9/11/2023 1:50 AM from: narko Plot: 9/12/2023 10:18 AM X:\Z\VERSW\16724\5-final-dgn\51-drawings\85-Heavy\CONFEASIBILITY STUDY\SHEET\SVIC\16724_11 THRU 22.dwg



- NOTES:
1. CONTOUR INTERVAL IS 10-FOOT MAJOR AND 2-FOOT MINOR.

- LEGEND:
- 300-FT WELL SETBACK BOUNDARY
 - 150-FT WELL SETBACK BOUNDARY
 - WASTE LIMITS
 - CROSS SECTION ALIGNMENT
 - CROSS SECTION STATIONING (IN FEET)

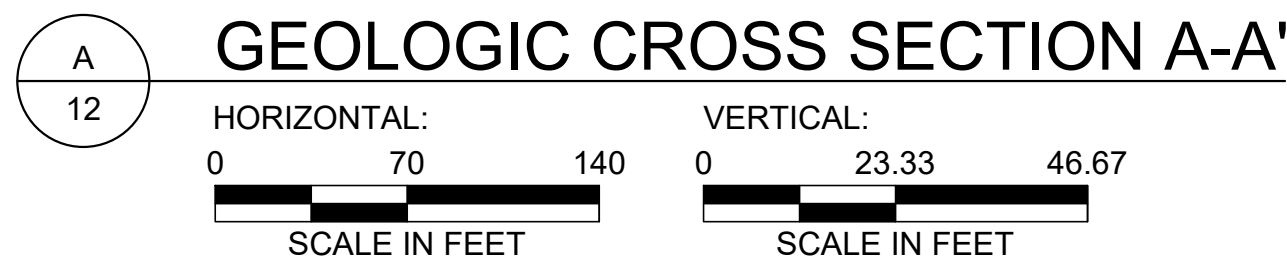
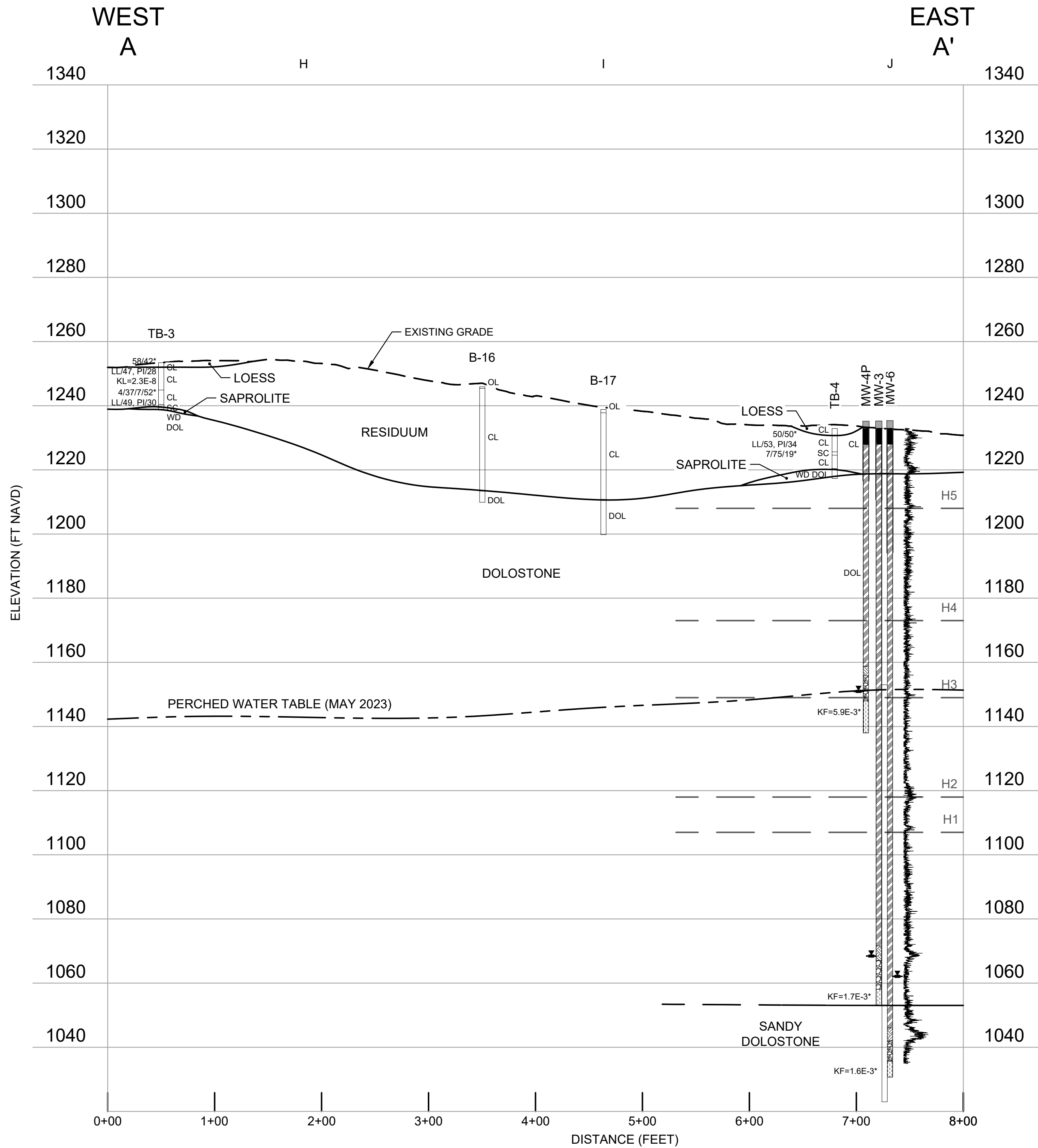
SEH Project	VERSW 167824	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
Drawn By	NRP						
Designed By	TTR						
Checked By	DRH						
			ISSUED FOR REGULATORY REVIEW	09/11/2023			

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

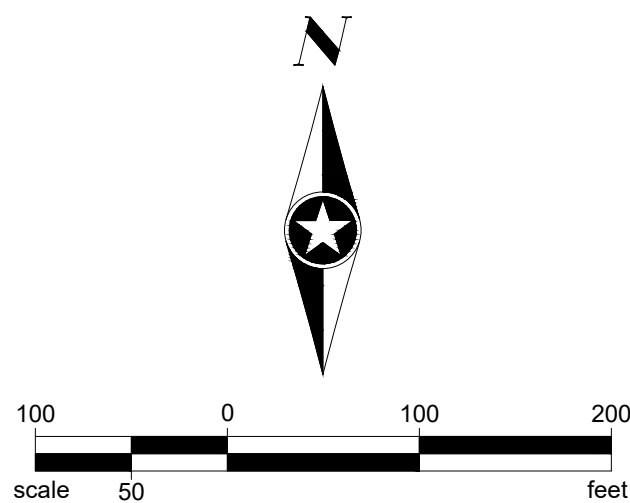
PLANS PREPARED FOR:
VERNON COUNTY SOLID WASTE DEPT
53705 CTH LF
VIROQUA, WISCONSIN

VERNON COUNTY LANDFILL
FEASIBILITY STUDY
GEOLOGIC CROSS SECTION LOCATION MAP

Save: 9/11/2023 11:50 AM fromarko Plot: 9/12/2023 10:19 AM X:\Z\I\VERS\M167824\5-final-dgn\51-drawings\85-Heavy\CV\FEASIBILITY STUDY\SHEETS\VC167824_11_THRU 22.dwg



- NOTES:
1. CONTOUR INTERVAL IS 2-FOOT.
 2. GEOLOGIC CROSS SECTIONS HAVE A VERTICAL EXAGGERATION OF 3:1.



USCS CLASSIFICATION:

SP	SAND, POORLY GRADED, LITTLE OR NO FINES
SP-SM	SAND, POORLY GRADED, WITH SILT
SM	SILTY SAND
SC	CLAYEY SAND
ML	SILT
CL-ML	SILTY LEAN CLAY
CL	LEAN CLAY
OL	ORGANIC SILT OR CLAY, LOW PLASTICITY

SOIL TESTING LEGEND:

*	SOIL TESTING LOCATION
LL/24	LIQUID LIMIT
PI/10	PLASTICITY INDEX
PL/14	PLASTICITY LIMIT
0/51/49	GRAVEL/SAND/P200 PERCENTAGE
2/43/38/17	GRAVEL/SAND/SILT/CLAY
KF	AVERAGE IN-FIELD PERMEABILITY (CM/SEC)
KL	LABORATORY PERMEABILITY (CM/SEC)
NP	NON-PLASTICITY

WELL CONSTRUCTION LEGEND:

	ANNULAR SEAL
	BENTONITE SEAL
	FINE GRAIN SAND
	FILTER PACK
	SCREEN
	CASING STICK-UP

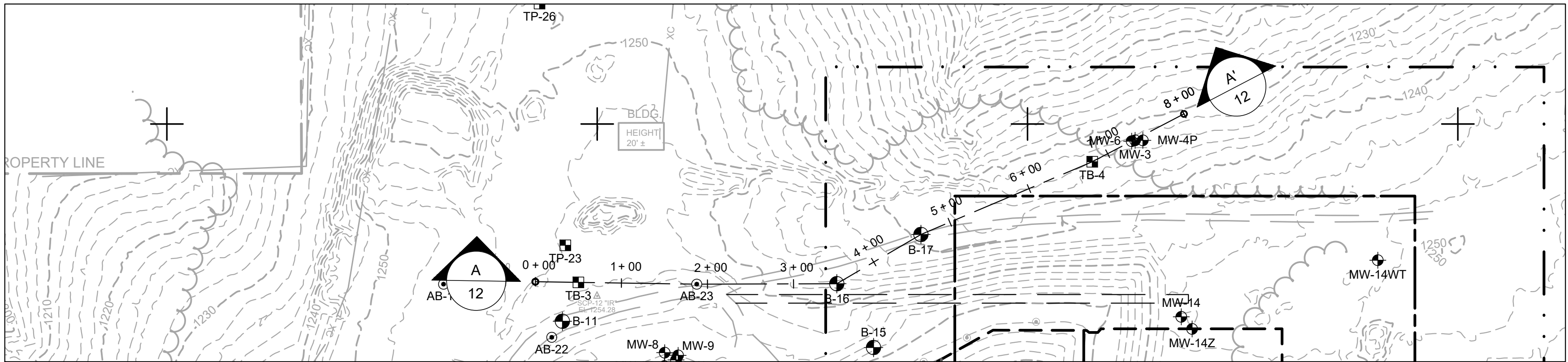
BEDROCK ABBREVIATIONS:

WD	WEATHERED BEDROCK
DOL	DOLOSTONE
SH	SHALE
SLTST	SILTSTONE
SS	SANDSTONE

GENERAL LEGEND:

	GEOLOGIC CONTACT
	WATER TABLE
	INTERSECTION CROSS-SECTION
	GAMMA LOG MARKER HORIZON
	NATURAL GAMMA LOG

LOCATION KEY:



SEH Project	VERSW 167824	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
Drawn By	NRP						
Designed By	TTR						
Checked By	DRH		ISSUED FOR REFULATORY REVIEW	09/11/2023			

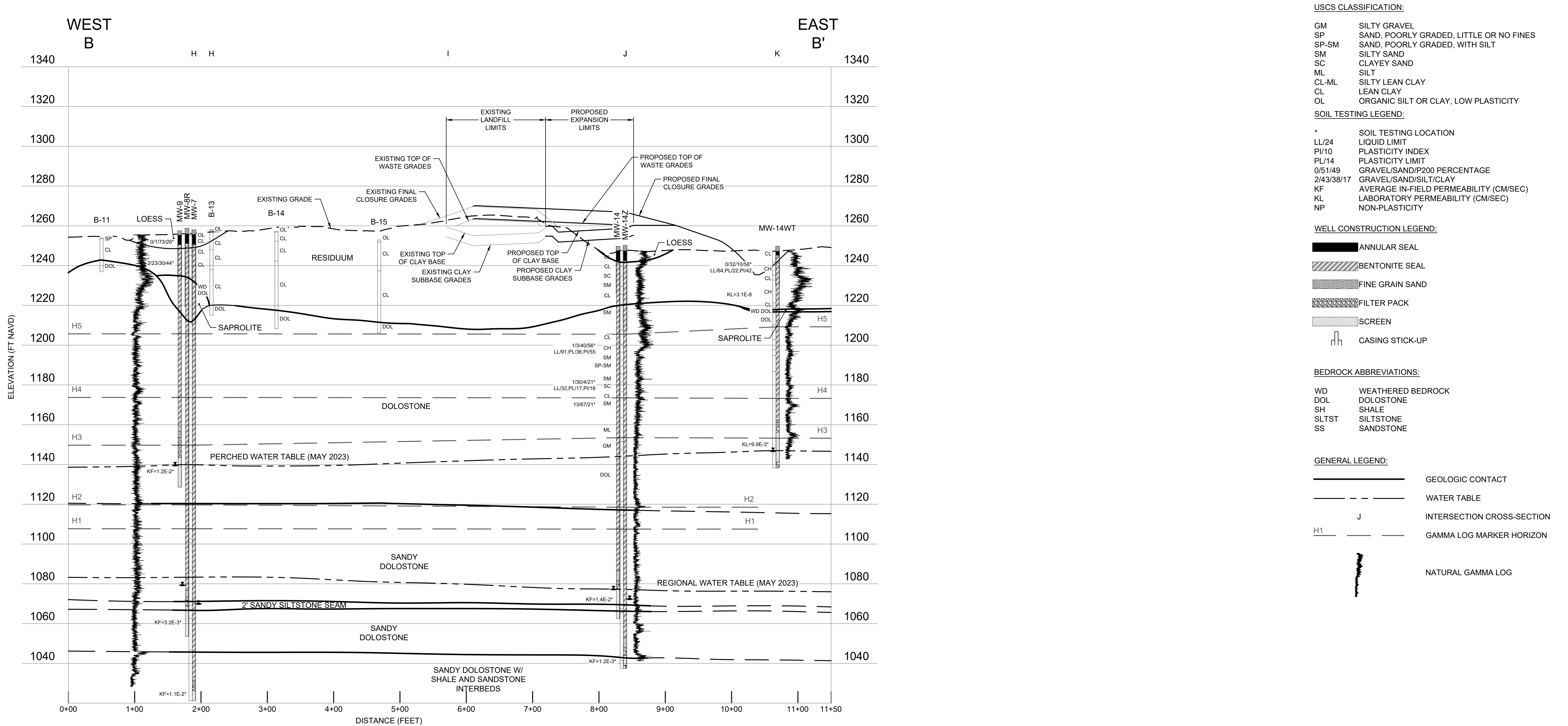


PLANS PREPARED BY:
329 JAY STREET
SUITE 301
LA CROSSE, WI 54601-4034
PHONE: 1.608.782.3161

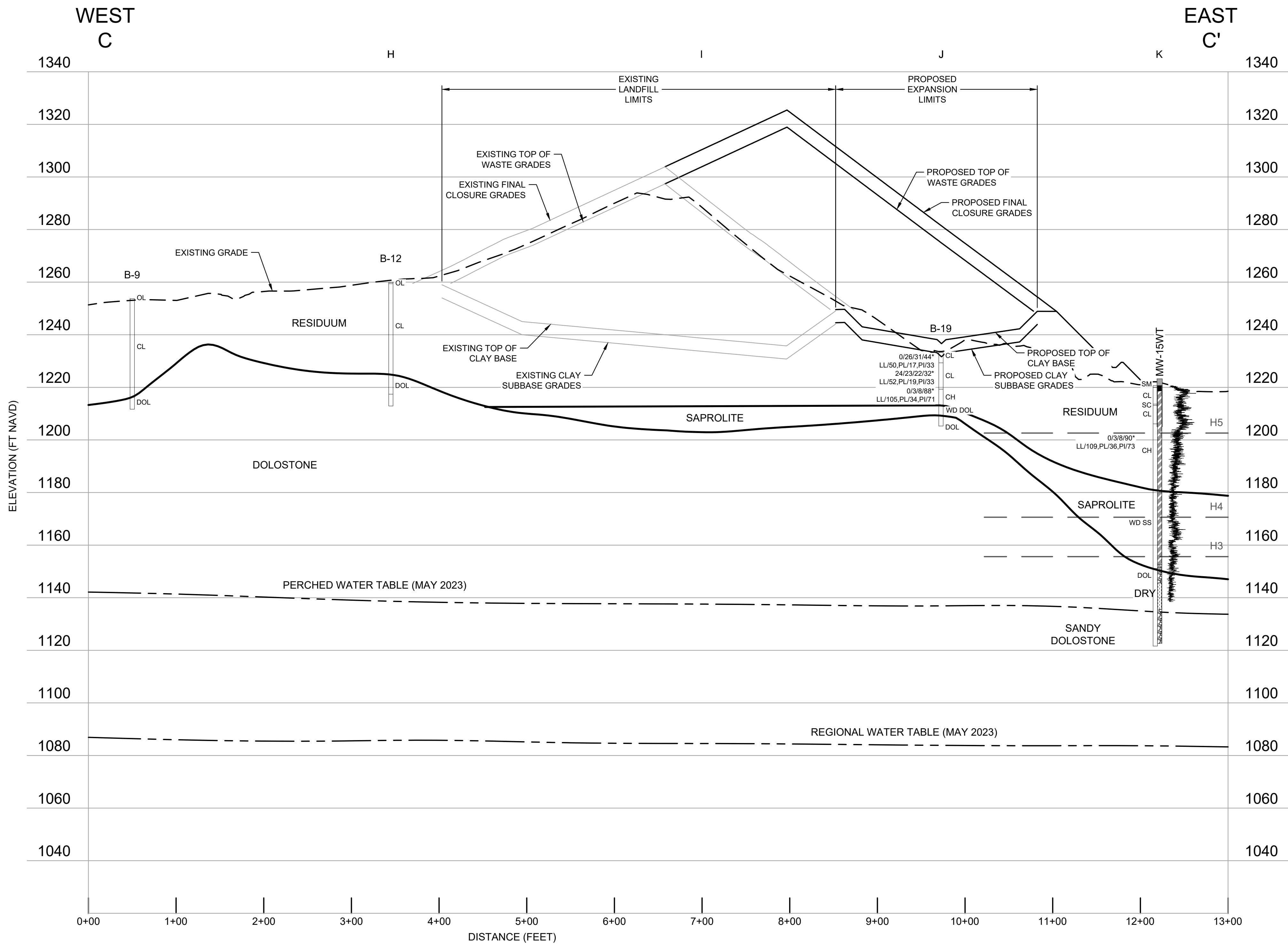
PLANS PREPARED FOR:
VERNON COUNTY SOLID WASTE DEPT
53705 CTH LF
VIROQUA, WISCONSIN

VERNON COUNTY LANDFILL
FEASIBILITY STUDY
GEOLOGIC CROSS SECTION A-A'

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USCS CLASSIFICATION:

SP	SAND, POORLY GRADED, LITTLE OR NO FINES
SP-SM	SAND, POORLY GRADED, WITH SILT
SM	SILTY SAND
SC	CLAYEY SAND
ML	SILT
CL-ML	SILTY LEAN CLAY
CL	LEAN CLAY
OL	ORGANIC SILT OR CLAY, LOW PLASTICITY

SOIL TESTING LEGEND:

*	SOIL TESTING LOCATION
LL/24	LIQUID LIMIT
PI/10	PLASTICITY INDEX
PL/14	PLASTICITY LIMIT
0/51/49	GRAVEL/SAND/P200 PERCENTAGE
2/43/38/17	GRAVEL/SAND/SILT/CLAY
KF	AVERAGE IN-FIELD PERMEABILITY (CM/SEC)
KL	LABORATORY PERMEABILITY (CM/SEC)
NP	NON-PLASTICITY

WELL CONSTRUCTION LEGEND:

ANNULAR SEAL
BENTONITE SEAL
FINE GRAIN SAND
FILTER PACK
SCREEN
CASING STICK-UP

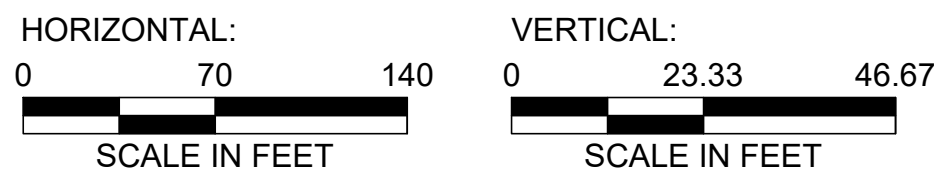
BEDROCK ABBREVIATIONS:

WD	WEATHERED BEDROCK
DOL	DOLOSTONE
SH	SHALE
SLTST	SILTSTONE
SS	SANDSTONE

GENERAL LEGEND:

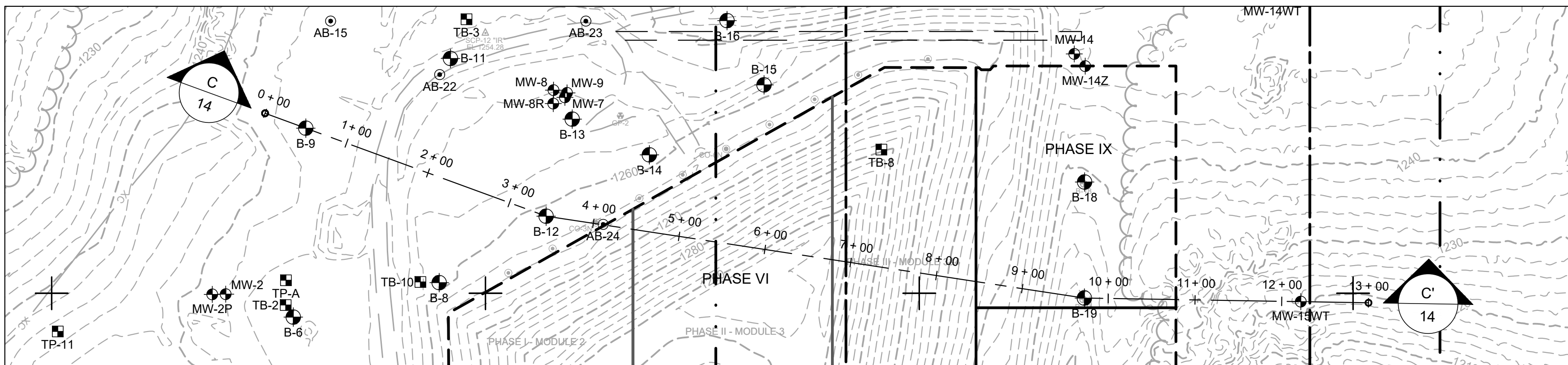
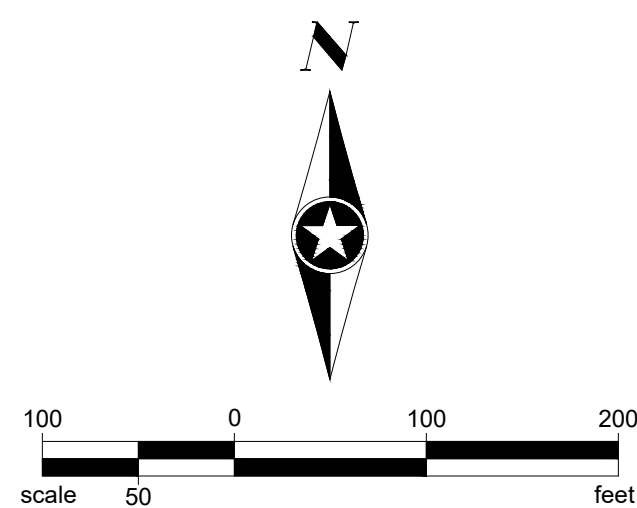
GEOLOGIC CONTACT
WATER TABLE
INTERSECTION CROSS-SECTION
GAMMA LOG MARKER HORIZON
NATURAL GAMMA LOG

GEOLOGIC CROSS SECTION C-C'



NOTES:

- CONTOUR INTERVAL IS 2-FOOT.
- GEOLOGIC CROSS SECTIONS HAVE A VERTICAL EXAGGERATION OF 3:1.



LOCATION KEY:

SEH Project	VERSW 167824	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
Drawn By	NRP						
Designed By	TTR						
Checked By	DRH						
			ISSUED FOR REGULATORY REVIEW	09/11/2023			

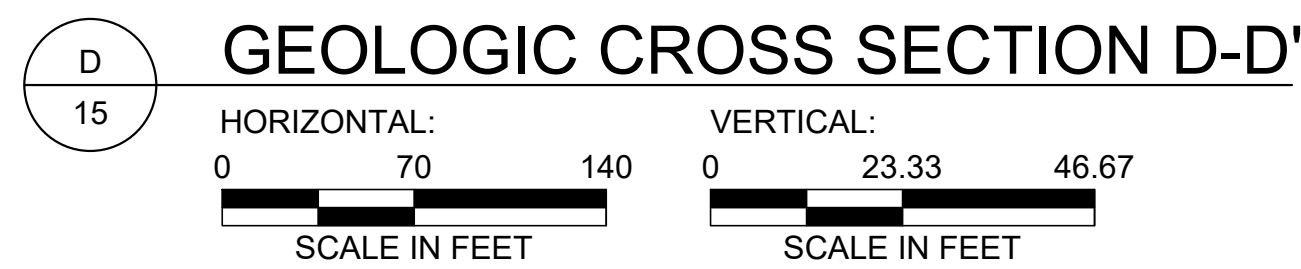
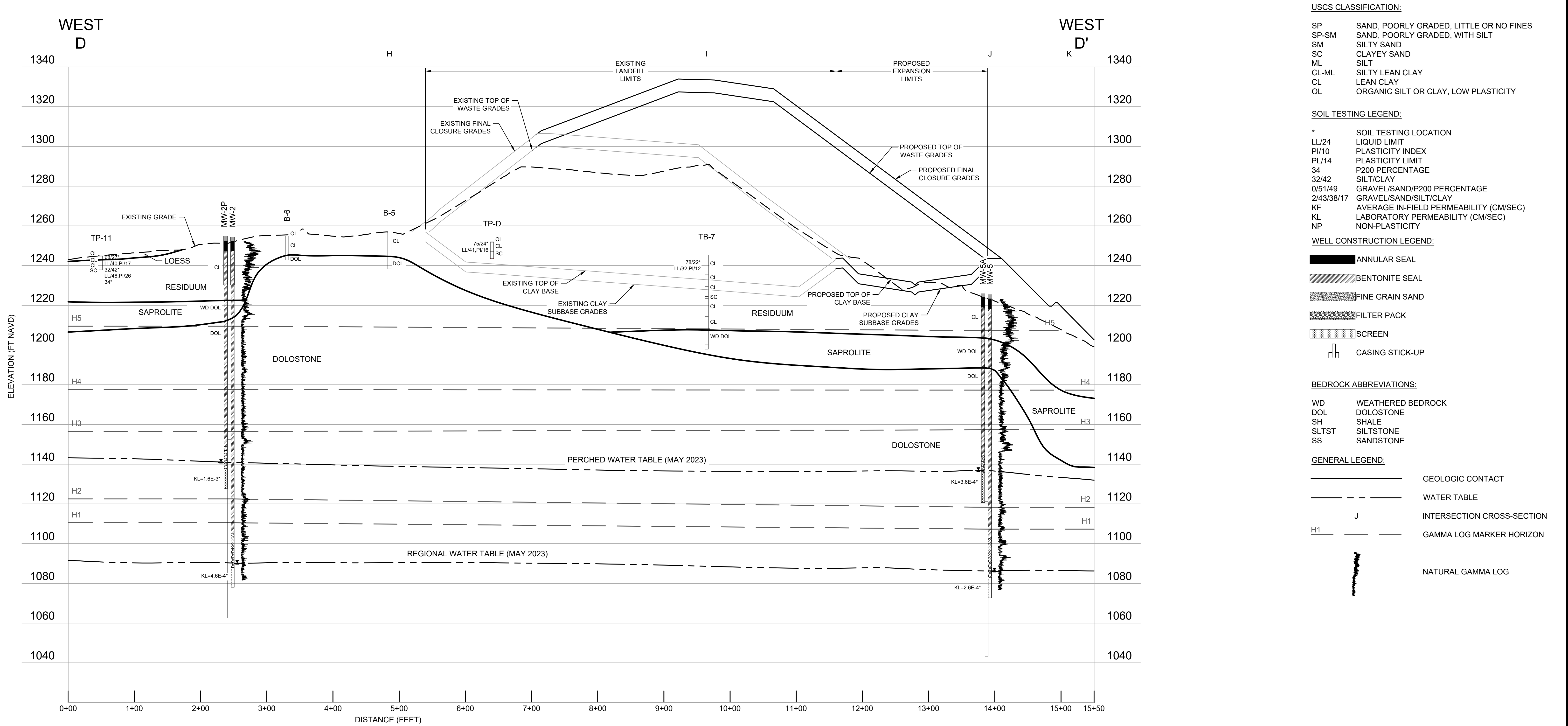


PLANS PREPARED BY:
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PHONE: 1.608.782.3161

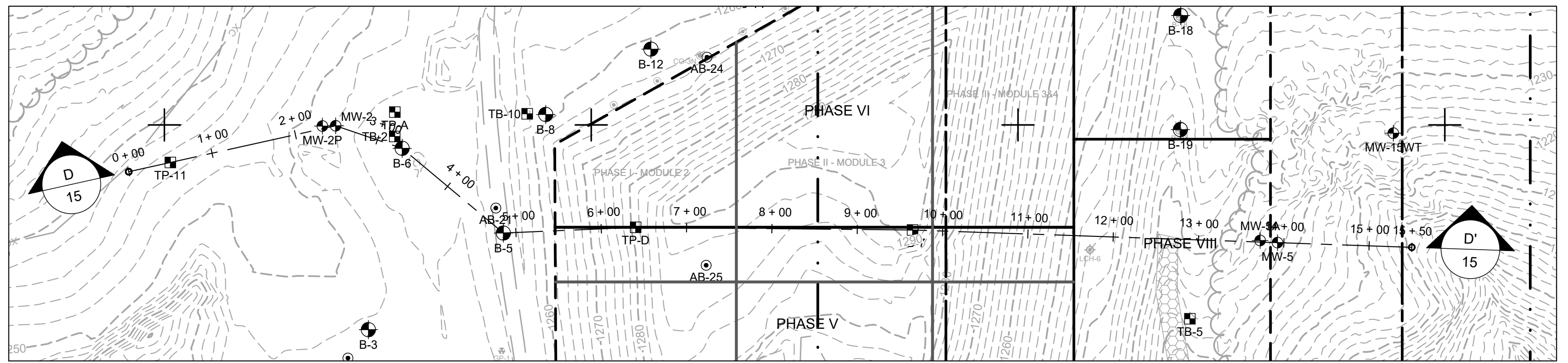
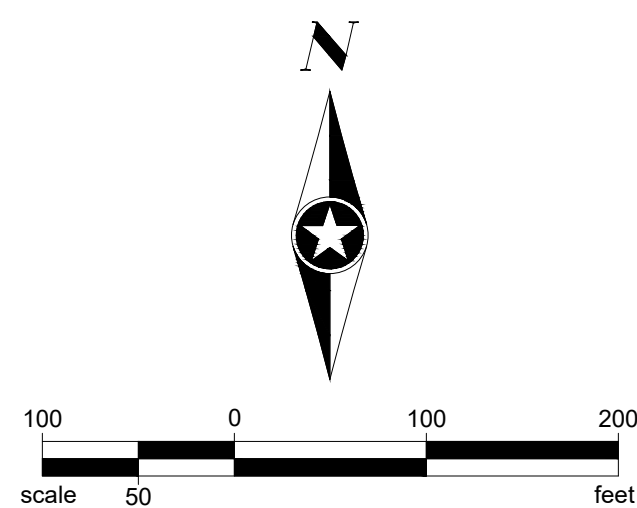
PLANS PREPARED FOR:
VERNON COUNTY SOLID WASTE DEPT
53705 CTH LF
VIROQUA, WISCONSIN

VERNON COUNTY LANDFILL
FEASIBILITY STUDY
GEOLOGIC CROSS SECTION C-C'

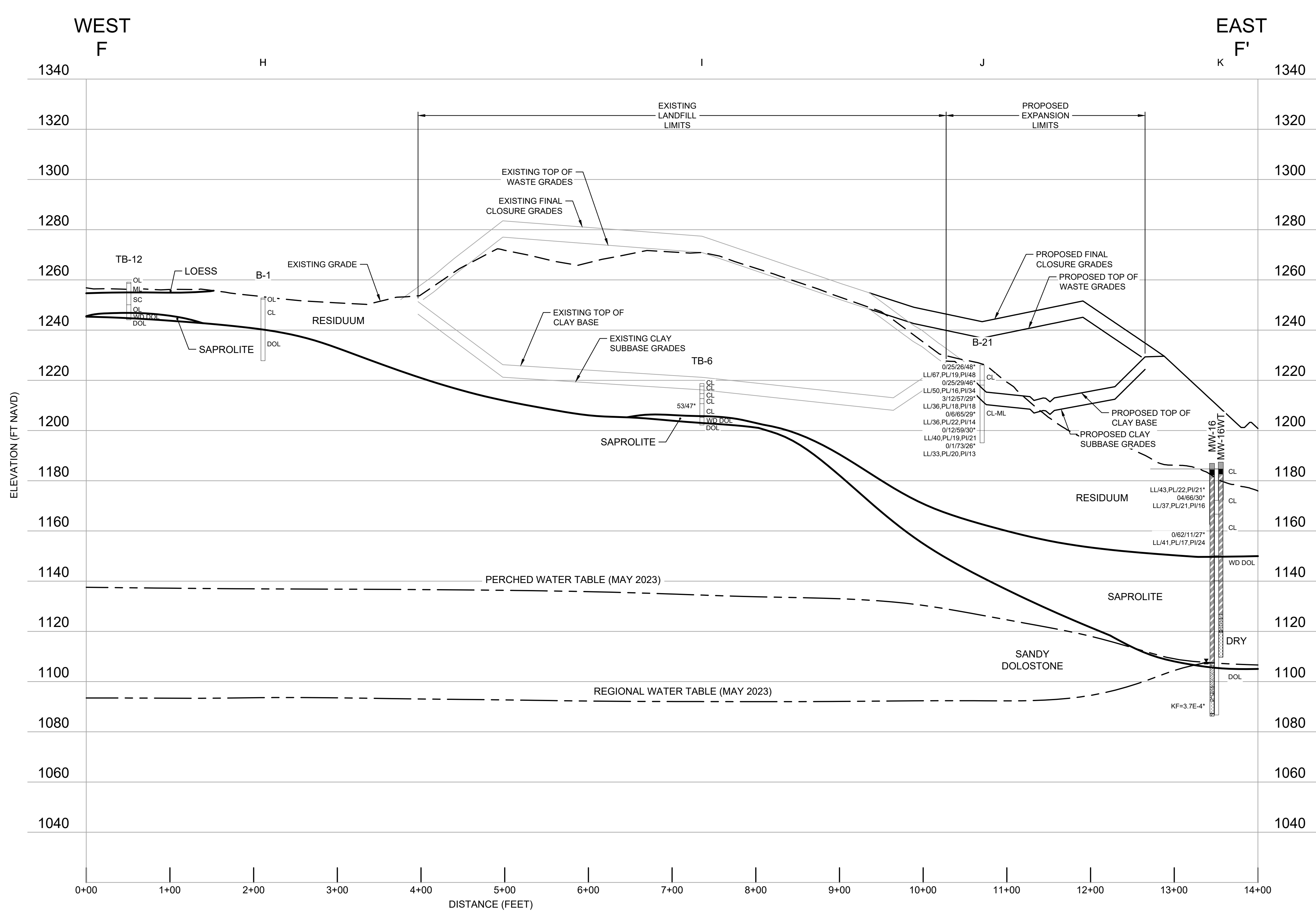
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- NOTES:
1. CONTOUR INTERVAL IS 2-FOOT.
 2. GEOLOGIC CROSS SECTIONS HAVE A VERTICAL EXAGGERATION OF 3:1.



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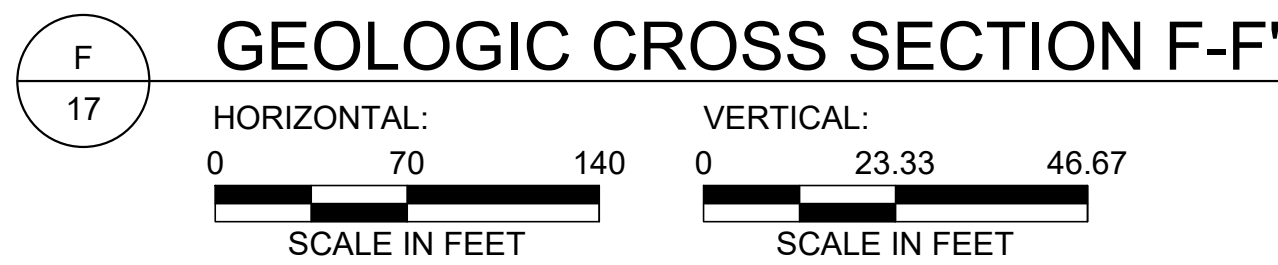
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CL	LEAN CLAY
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SOIL TESTING LEGEND:	
*	SOIL TESTING LOCATION
LL/24	LIQUID LIMIT
PI/10	PLASTICITY INDEX
PL/14	PLASTICITY LIMIT
0/51/49	GRAVEL/SAND/P200 PERCENTAGE
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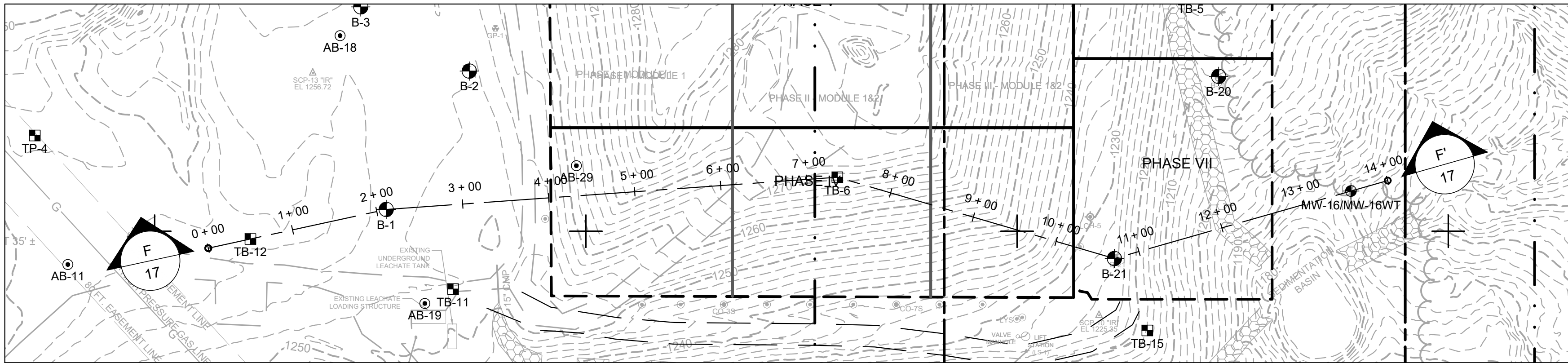
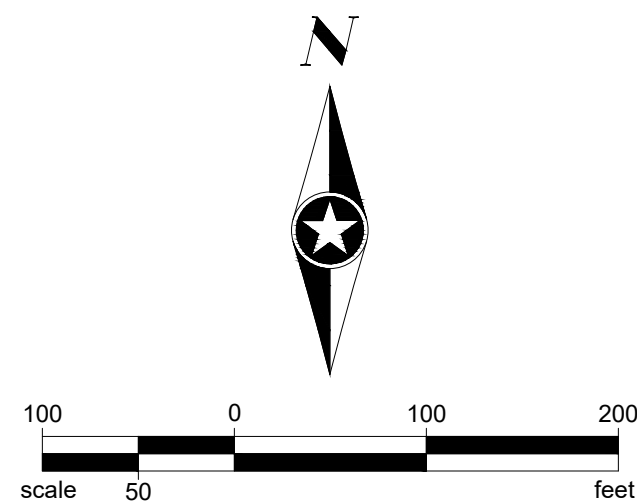
WELL CONSTRUCTION LEGEND:	
	ANNULAR SEAL
	BENTONITE SEAL
	FINE GRAIN SAND
	FILTER PACK
	SCREEN
	CASING STICK-UP

BEDROCK ABBREVIATIONS:	
WD	WEATHERED BEDROCK
DOL	DOLOSTONE
SH	SHALE
SLTST	SILTSTONE
SS	SANDSTONE

GENERAL LEGEND:	
	GEOLOGIC CONTACT
	WATER TABLE
	INTERSECTION CROSS-SECTION
	GAMMA LOG MARKER HORIZON
	NATURAL GAMMA LOG



- NOTES:**
1. CONTOUR INTERVAL IS 2-FOOT.
 2. GEOLOGIC CROSS SECTIONS HAVE A VERTICAL EXAGGERATION OF 3:1.



LOCATION KEY:

SEH Project	VERSW 167824	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
Drawn By	NRP						
Designed By	TTR						
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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
GEOLOGIC CROSS SECTION F-F'

