



ENGINEERING CHANGE NOTICE

Project: Former Satralloy Site Slag Removal Interim Action	ECN No.: 006
Project No.: US0033555.9828	Date: 2/26/2026
Engineering Change Notice Name: South Mill Building Area Grading Revision	Contract No.: 35862100006-001
Project Feature: Plant Area Final Grading, Drainage and Revegetation, Main Access Road Grading	
Affected Documents: Design Drawing Sheets 010, 011, 400-406, 601-603, 605, 610, 612, 613, 620, 630, 802	
Description of Change: Using a similar approach as the one applied to the North Mill Building Area Grading Revision (ECN 005), the final grading surface in the vicinity of the Former South Mill Building was updated to include a minimum 2-foot-thick layer of clean soil fill over existing concrete pads while generally maintaining the original proposed drainage pattern. The resulting changes are presented in Design Drawings Revision 5 - South Mill Building Area Grading Revision and include the following: • The final grading surface was updated to cover existing concrete pads with a minimum 2-foot-thick layer of clean soil fill (Sheets 403-404, 602-603, and 605). Except, the "Mechanic Pad" was left exposed for future use. • MW-07 shall be maintained (Sheet 403). • The final grading surface was updated to tie into and/or maintain functionality of existing stormwater drainage system features, especially those draining to the wetland near stormwater sampling location SW-12. • Existing catch basins that will be filled over with soil, will be covered with concrete covers that are a minimum 6-inches thick. • Extents of the native grass mix seeding area and erosion and sediment control mat were updated to include the areas where existing concrete pads will be covered with clean soil fill (Sheets 602-603). • The final grading surface profiles were updated in Sections RR and SS to cover existing concrete pads with a minimum 2-foot-thick layer of clean soil fill (Sheet 612). • The rock-lined ditch and grass-lined swale details were updated to clarify how dimensions may vary (Sheet 630). • The Main Access Road alignment and profile remained the same, but the sections were updated to show revised side slope grading to tie into the updated final grading surface in the vicinity of the Former South Mill Building Area (Sheet 802). The following additional grading updates were included in Design Drawings Revision 5 - South Mill Building Area Grading Revision: • The drainage swale from the west side of the Former North Mill Building Area was rerouted around the expanded Support Area (Sheets 401, 403, and 602). • Detailed grading was added for the South Lowlands roadside ditch to drain to the existing culverts and follow the Jefferson County typical ROW restoration section to the extent practicable (Sheets 404-406, 603, and 613). The South Lowlands County Roadside Ditch and ROW Restoration Detail was updated to clarify how dimensions may vary (Sheet 630). • The grading on top of the Old Dump and Upper Rail Area was revised to extend the south-facing slopes, incorporate a 10-ft-wide crest at the top of the south-facing slopes, then slope back at a 2% minimum grade toward the drainage ditch and wetlands located along the toe of the native slope on the north side (see Sheets 400, 402, 601, 610, and 620). This revision results in an estimated 18,546 cy of additional clean fill soil placement. The table below summarizes the changes to quantity estimates resulting from the changes described above.	



ENGINEERING CHANGE NOTICE

Bid Form Item Number	Bid Form Item Name	Units	Last Estimate	Revised Estimate	Change
2	SLAG CONSOLIDATION				
2.2	Main Access Road				
2.2.1	Subgrade Preparation	sf	266,580	264,552	-2,028
2.2.2	Geogrid	sf	147,774	145,587	-2,187
2.2.3	Gravel Surfacing	cy	1,824	1,797	-27
4	RESTORATION OF SLAG REMOVAL AREAS				
4.1	Backfill and Grading				
4.1.1	Load Clean Soil Fill, Haul, and Spread	ecy	506,038	579,078	73,041
4.1.2	Amend Clean Soil Fill with Limestone	ecy	17,606	18,529	923
4.1.3	Compact Amended Clean Soil Fill	ecy	17,606	18,529	923
4.1.4	Fine Grading	sy	528,189	555,874	27,685
4.1.5	Load Vegetative Soil, Haul, and Spread on Backfill Area	cy	88,032	92,646	4,614
4.1.6	Amend Clean Soil Fill with Limestone	cy	80,947	85,561	4,614
4.1.7	Vegetative Soil Amendment	sy	485,680	513,365	27,685
4.2	Revegetation				
4.2.1	Seeding - Milkweed, Native Wildflower and Native Grass Seed Mix	ac	109.1	114.8	5.7
4.2.2	Erosion and Sediment Control Mat	sy	83,687	82,853	-833
4.2.3	Enhanced Woodland Habitat Area	ac	38.2	38.3	0.1
4.2.4	Understory Vegetation	ac	38.2	38.3	0.1
4.4	Drainage Features				
4.4.1	Grass-Lined Swale	lf	2,988	2,812	-176
4.4.2	County Roadside Ditch	lf	3,787	3,760	-27
4.4.3	Rock-Lined Ditch	lf	1,645	1,856	211
5	FENCING				
5.2	Perimeter Fencing - Along County Road 74	lf	3,892	3,862	-30

RECON shall correspond directly with WSP Construction Management and CAMC Project Management with any cost or schedule impacts as a result of this ECN.

Justification for Change: Originally, the floor between the two main concrete pads of the Former North Mill Building and Former South Mill Building were thought to be composed of soil. The site investigation soil sampling results indicated contaminants of concern within the mill floor soil. Thus, this mill floor soil was proposed to be removed as part of the design. However, during soil excavation in the Former North Mill Building Area, it was found to be underlain by intermittent concrete foundations with varied elevations.

The original proposed drainage pattern assumed that the mill soil floor would be removed, and adjacent concrete pads would remain exposed. However, due to the varied elevations of the concrete foundations found between the two main concrete pads, and because there is a surplus of clean soil fill coming from the Former Mine Area borrow areas, the grading was revised to have a minimum 2-foot-thick layer of clean soil fill over the existing concrete pads in the North Mill Building Area and South Mill Building Area while generally maintaining the original proposed drainage pattern.



ENGINEERING CHANGE NOTICE

The North Mill Building Grading Revision (ECN 005) was issued first so as not to delay construction while additional time was taken to consider modifications required for the South Mill Building Grading Revision (this ECN).

The additional grading updates described above were made for the following reasons:

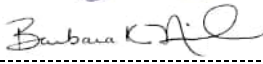
- The drainage swale from the west side of the Former North Mill Building Area was rerouted around the expanded Support Area so that this area could remain available for future use without a drainage swale crossing through the middle of it.
- Detailed grading was added for the South Lowlands roadside ditch to help RECON grade this flat area to drain and follow the Jefferson County typical ROW restoration section to the extent practicable.
- The grading on top of the Old Dump and Upper Rail Area was revised to reduce the flow of stormwater onto the south-facing slopes of the Old Dump and Upper Rail Area to the extent practicable.

☐ Significant Design Change – Regulatory approval of this ECN is required prior to construction

☒ Insignificant Design Change – No regulatory approval is required

Prepared by: Vanessa Nancarrow, PE

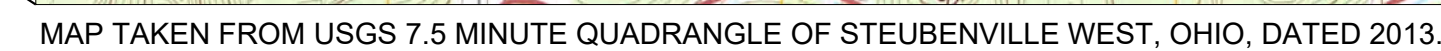
Approvals:

WSP Design Engineer:		Date:	2/26/2026
WSP Project Director:		Date:	2/26/2026
WSP Construction Manager:		Date:	2/26/2026
CAMC Program Manager:		Date:	2/26/2026
OEPA Site Coordinator:	N/A Insignificant Design Change	Date:	

Distribution:

☒ Barbara Nielsen	CAMC Program Manager	☒ Rick Meyers	RECON Branch Manager
☒ Jordan Sisson	CAMC Project Manager	☒ Chuck Williams	RECON Project Manager
☒ Adam Green	CAMC HSO	☒ Kent Geis	RECON Project Manager
☒ Steve Anderson	WSP Project Director	☒ Jon Richardson	RECON Construction Manager
☒ Brent Barbich	WSP Project Manager	☒ Mark Sackman	RECON SSO
☒ David Walter	WSP Construction Manager	☒ Kevin O'Hara	OEPA Site Coordinator
☒ Richard Pletz	WSP HSO	☒ Laura Stodola	WSP Project Controller

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SITE ADDRESS: 4243 COUNTY ROAD 74, MINGO JUNCTION, OH 43938

REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED
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PROJECT NO.	PHASE	REV.	1 of 113	SHEET
1239330907	900	5		010

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D

SLAG REMOVAL INTERIM ACTION FORMER SATRALLOY SITE, JEFFERSON COUNTY, OHIO

DRAWING LIST	
SHEET NUMBE R	SHEET TITLE
010	COVER SHEET
011	DRAWING INDEX
020	SITE OVERVIEW
030	SURVEY MONUMENTATION AND CONTROL
040	SITE GROUNDWATER MONITORING WELLS AND OIL GAS WELLS
050	EXISTING CONDITIONS - NORTH LOWLANDS (1 OF 2)
051	EXISTING CONDITIONS - NORTH LOWLANDS (2 OF 2)
052	EXISTING CONDITIONS - PLANT AREA (1 OF 2)
053	EXISTING CONDITIONS - PLANT AREA (2 OF 2)
054	EXISTING CONDITIONS - SOUTH LOWLANDS (1 OF 3)
055	EXISTING CONDITIONS - SOUTH LOWLANDS (2 OF 3)
056	EXISTING CONDITIONS - SOUTH LOWLANDS (3 OF 3)
057	EXISTING CONDITIONS - UPLANDS (1 OF 3)
058	EXISTING CONDITIONS - UPLANDS (2 OF 3)
059	EXISTING CONDITIONS - UPLANDS (3 OF 3)
060	EXISTING CONDITIONS - FORMER MINE AREA (1 OF 4)
061	EXISTING CONDITIONS - FORMER MINE AREA (2 OF 4)
062	EXISTING CONDITIONS - FORMER MINE AREA (3 OF 4)
063	EXISTING CONDITIONS - FORMER MINE AREA (4 OF 4)
100	TEMPORARY EROSION AND SEDIMENT CONTROL PLAN - NORTH LOWLANDS
101	TEMPORARY EROSION AND SEDIMENT CONTROL PLAN - PLANT AREA
102	TEMPORARY EROSION AND SEDIMENT CONTROL PLAN - SOUTH LOWLANDS
103	TEMPORARY EROSION AND SEDIMENT CONTROL PLAN - NORTH UPLANDS
104	TEMPORARY EROSION AND SEDIMENT CONTROL PLAN - SOUTH UPLANDS
105	TEMPORARY EROSION AND SEDIMENT CONTROL PLAN - FORMER MINE AREA
110	TEMPORARY EROSION AND SEDIMENT CONTROL DETAILS
120	CLEARING PLAN - NORTH LOWLANDS
121	CLEARING PLAN - PLANT AREA
122	CLEARING PLAN - SOUTH LOWLANDS
123	CLEARING PLAN - NORTH UPLANDS
124	CLEARING PLAN - SOUTH UPLANDS
125	CLEARING PLAN - FORMER MINE AREA
130	POTENTIAL BORROW MATERIAL ISOPACH - FORMER MINE AREA
140	BORROW AREA DEVELOPMENT PLAN
150	BORROW AREA A - SECTIONS AND VOLUME-ELEVATION CURVES
151	BORROW AREA B - SECTIONS AND VOLUME-ELEVATION CURVES
152	BORROW AREA C - SECTIONS AND VOLUME-ELEVATION CURVES
200	SLAG ISOPACH
210	SLAG REMOVAL PLAN - NORTH LOWLANDS (1 OF 2)
211	SLAG REMOVAL PLAN - NORTH LOWLANDS (2 OF 2)
212	SLAG REMOVAL PLAN - PLANT AREA (1 OF 2)

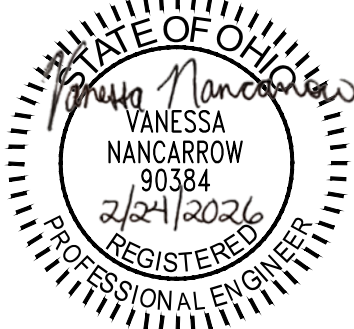
213	SLAG REMOVAL PLAN - PLANT AREA (2 OF 2)
214	SLAG REMOVAL PLAN - SOUTH LOWLANDS (1 OF 3)
215	SLAG REMOVAL PLAN - SOUTH LOWLANDS (2 OF 3)
216	SLAG REMOVAL PLAN - SOUTH LOWLANDS (3 OF 3)
217	SLAG REMOVAL PLAN - UPLANDS (1 OF 3)
218	SLAG REMOVAL PLAN - UPLANDS (2 OF 3)
219	SLAG REMOVAL PLAN - UPLANDS (3 OF 3)
220	SLAG REMOVAL SECTIONS - NORTH LOWLANDS
221	SLAG REMOVAL SECTIONS - SOUTH LOWLANDS
222	SLAG REMOVAL SECTIONS - PLANT AREA
223	SLAG REMOVAL SECTIONS - UPLANDS (1 OF 2)
224	SLAG REMOVAL SECTIONS - UPLANDS (2 OF 2)
230	CRIB AND FOUNDATION WALL SLAG REMOVAL SECTIONS (1 OF 2)
231	CRIB AND FOUNDATION WALL SLAG REMOVAL SECTIONS (2 OF 2)
300	FORMER NORTH MILL BUILDING FLOOR SOIL REMOVAL PLAN AND SECTION
301	FORMER SOUTH MILL BUILDING FLOOR SOIL REMOVAL PLAN AND SECTION
400	FINAL GRADING PLAN - NORTH LOWLANDS (1 OF 2)
401	FINAL GRADING PLAN - NORTH LOWLANDS (2 OF 2)
402	FINAL GRADING PLAN - PLANT AREA (1 OF 2)
403	FINAL GRADING PLAN - PLANT AREA (2 OF 2)
404	FINAL GRADING PLAN - SOUTH LOWLANDS (1 OF 3)
405	FINAL GRADING PLAN - SOUTH LOWLANDS (2 OF 3)
406	FINAL GRADING PLAN - SOUTH LOWLANDS (3 OF 3)
407	FINAL GRADING PLAN - UPLANDS (1 OF 3)
408	FINAL GRADING PLAN - UPLANDS (2 OF 3)
409	FINAL GRADING PLAN - UPLANDS (3 OF 3)
410	SOUTH LOWLANDS ROADSIDE DITCH PROFILE
500	MINE AREA STOCKPILE - SLAG FILL PLAN OVERVIEW
501	MINE AREA STOCKPILE - SLAG FILL PLAN (1 OF 4)
502	MINE AREA STOCKPILE - SLAG FILL PLAN (2 OF 4)
503	MINE AREA STOCKPILE - SLAG FILL PLAN (3 OF 4)
504	MINE AREA STOCKPILE - SLAG FILL PLAN (4 OF 4)
510	MINE AREA STOCKPILE - SLAG FILL VOLUME-ELEVATION CURVES
520	MINE AREA STOCKPILE - FINAL SITE PLAN OVERVIEW
521	MINE AREA STOCKPILE - FINAL SITE PLAN (1 OF 4)
522	MINE AREA STOCKPILE - FINAL SITE PLAN (2 OF 4)
523	MINE AREA STOCKPILE - FINAL SITE PLAN (3 OF 4)
524	MINE AREA STOCKPILE - FINAL SITE PLAN (4 OF 4)
530	MINE AREA STOCKPILE - PERIMETER ROAD PROFILE (1 OF 2)
531	MINE AREA STOCKPILE - PERIMETER ROAD PROFILE (2 OF 2)
540	MINE AREA STOCKPILE - SECTIONS
550	MINE AREA STOCKPILE - DOWNCHUTE PROFILES (1 OF 2)
551	MINE AREA STOCKPILE - DOWNCHUTE PROFILES (2 OF 2)
560	MINE AREA STOCKPILE - DETAILS (1 OF 4)
561	MINE AREA STOCKPILE - DETAILS (2 OF 4)

562	MINE AREA STOCKPILE - DETAILS (3 OF 4)
563	MINE AREA STOCKPILE - DETAILS (4 OF 4)
564	MINE AREA STOCKPILE - STRUCTURAL DETAILS (1 OF 2)
565	MINE AREA STOCKPILE - STRUCTURAL DETAILS (2 OF 2)
600	RESTORATION AND SURFACE WATER MANAGEMENT PLAN - SITE OVERVIEW
601	RESTORATION AND SURFACE WATER MANAGEMENT PLAN - NORTH LOWLANDS
602	RESTORATION AND SURFACE WATER MANAGEMENT PLAN - PLANT AREA
603	RESTORATION AND SURFACE WATER MANAGEMENT PLAN - SOUTH LOWLANDS
604	RESTORATION AND SURFACE WATER MANAGEMENT PLAN - NORTH UPLANDS
605	RESTORATION AND SURFACE WATER MANAGEMENT PLAN - SOUTH UPLANDS
606	RESTORATION AND SURFACE WATER MANAGEMENT PLAN - FORMER MINE AREA
610	FINAL GRADING AND RESTORATION SECTIONS - NORTH LOWLANDS
611	FINAL GRADING AND RESTORATION SECTIONS - PLANT AREA (1 OF 2)
612	FINAL GRADING AND RESTORATION SECTIONS - PLANT AREA (2 OF 2)
613	FINAL GRADING AND RESTORATION SECTIONS - SOUTH LOWLANDS
614	FINAL GRADING AND RESTORATION SECTIONS - UPLANDS (1 OF 2)
615	FINAL GRADING AND RESTORATION SECTIONS - UPLANDS (2 OF 2)
620	RESTORATION EROSION AND SEDIMENT CONTROL DETAILS
630	SURFACE WATER MANAGEMENT DETAILS
700	CONSTRUCTED WETLAND PLAN - NORTH LOWLANDS (1 OF 2)
701	CONSTRUCTED WETLAND PLAN - NORTH LOWLANDS (2 OF 2)
710	CONSTRUCTED WETLAND SECTIONS - NORTH LOWLANDS
711	CONSTRUCTED WETLAND DETAILS - NORTH LOWLANDS
800	MAIN ACCESS ROAD PROFILE (1 OF 2)
801	MAIN ACCESS ROAD PROFILE (2 OF 2)
802	MAIN ACCESS ROAD SECTIONS
810	ACCESS ROAD AND FENCING DETAILS

CONTECH DRAWINGS	
SHEET NO.	SHEET TITLE
CT1	DOWNCHUTE WEST LAYOUT PLAN
CT2	DOWNCHUTE NORTH LAYOUT PLAN
CT3	DOWNCHUTE EAST AND SOUTH LAYOUT PLANS
CT4	DOWNCHUTE SOUTH LAYOUT PLAN AND DOWNCHUTE TYPICAL SECTIONS
CT5	ARTICULATED CONCRETE BLOCK MAT TYPICAL DETAILS

5	2026-02-23	SOUTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	BRB
4	2025-10-29	NORTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	RSA
3	2025-09-22	MINE AREA STOCKPILE EXPANSION IN NE CORNER	VMN	REDMOND	FSS	RSA
2	2025-07-25	RFI-27: UPPER RAIL FINAL GRADING PLAN	VMN	REDMOND	FSS	RSA
1	2025-04-25	NORTH LOWLANDS DRAINAGE REVISION	VMN	REDMOND	FSS	RSA
0	2025-03-08	ISSUED FOR CONSTRUCTION	VMN	REDMOND	FSS	RSA
REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED

SEAL



CLIENT
CYPRUS AMAX MINERALS COMPANY

CONSULTANT



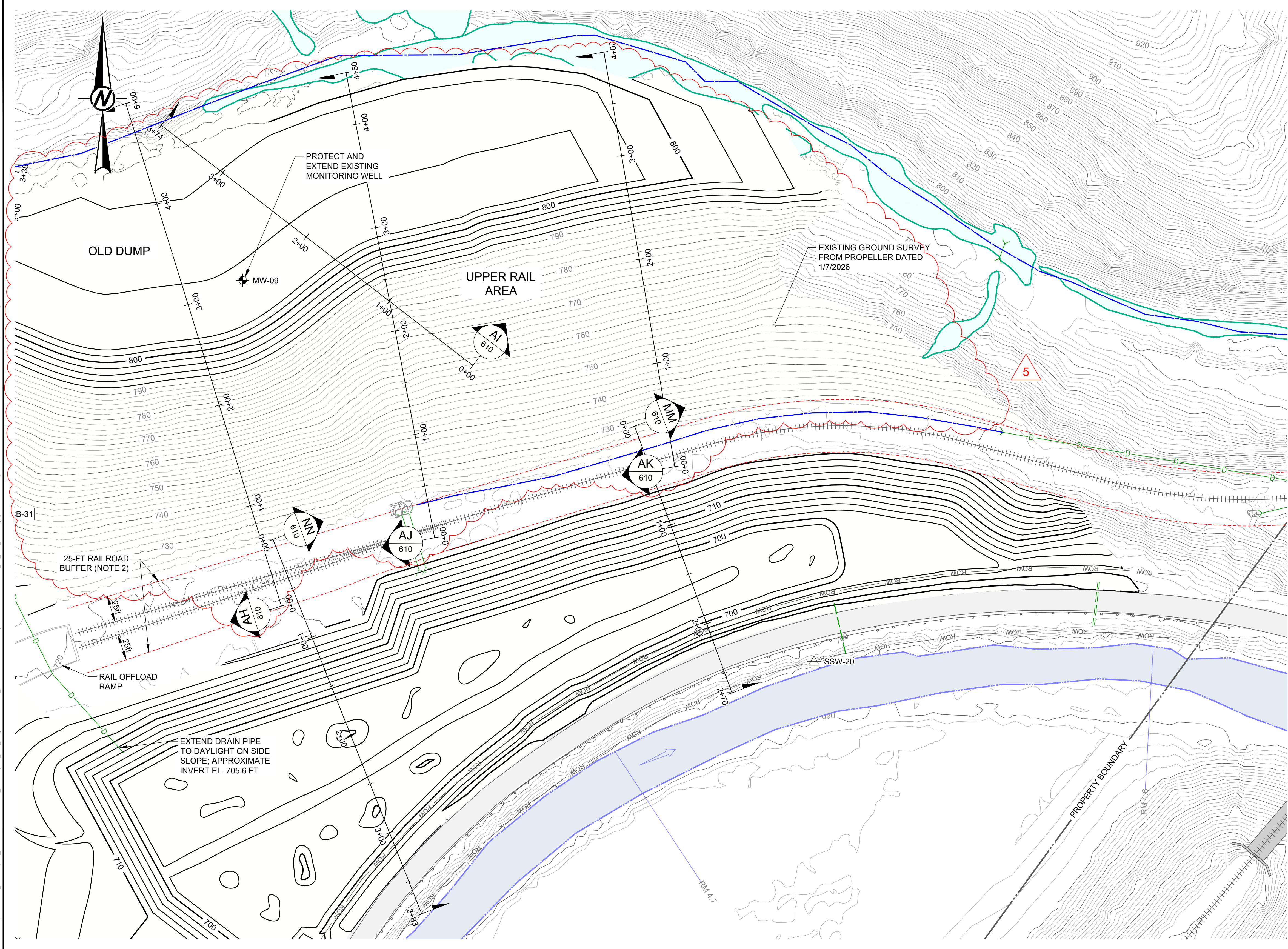
REDMOND
18300 REDMOND WAY, SUITE 200
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PROJECT
FORMER SATRALLOY SITE
SLAG REMOVAL INTERIM ACTION
JEFFERSON COUNTY, OHIO

TITLE
DRAWING INDEX

PROJECT NO.	PHASE	REV.	2 of 113	SHEET
1239330907	900	5		011

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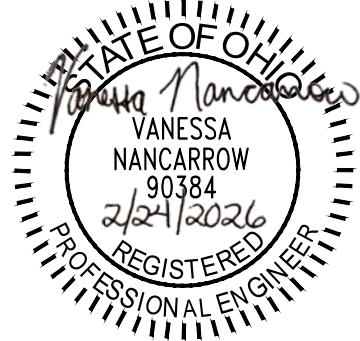
- LEGEND**
- 800 — EXISTING MAJOR CONTOURS (10-FT INTERVAL)
 - EXISTING MINOR CONTOURS (2-FT INTERVAL)
 - 750 — FINAL GRADING SURFACE MAJOR CONTOURS (10-FT INTERVAL)
 - FINAL GRADING SURFACE MINOR CONTOURS (2-FT INTERVAL)
 - PROPERTY BOUNDARY
 - ▨ PROPERTY DEED OVERLAP
 - CROSS CREEK
 - EXISTING ON-SITE ACCESS ROAD
 - EXISTING COUNTY ROAD (PAVED)
 - COUNTY ROAD RIGHT-OF-WAY (ROW)
 - EXISTING CONCRETE PAD - TO BE MAINTAINED
 - EXISTING CONCRETE PAD - TO BE COVERED IN-PLACE
 - EXISTING BUILDING
 - EXISTING RIPRAP
 - EXISTING RAILROAD
 - EXISTING FENCE
 - EXISTING GUARDRAIL
 - O/H — EXISTING OVERHEAD ELECTRICAL LINE
 - TEL — EXISTING OVERHEAD TELEPHONE LINE
 - EXISTING DRAINAGE DITCH
 - D — EXISTING UNDERGROUND DRAINAGE PIPE
 - D — EXISTING CULVERT / DRAIN PIPE DISCHARGE
 - EXISTING UNDERGROUND DRAINAGE PIPE (DIA SHOWN)
 - EXISTING MANHOLE (UNVERIFIED)
 - EXISTING MANHOLE (VERIFIED)
 - EXISTING CATCH BASIN (UNVERIFIED)
 - EXISTING CATCH BASIN (VERIFIED)
 - EXISTING HEADWALL
 - EXISTING INLET
 - JURISDICTIONAL WETLANDS (USACE JURISDICTION)
 - JURISDICTIONAL TRIBUTARY (USACE JURISDICTION)
 - MW-01 GROUNDWATER MONITORING WELL
 - SSW-02 SEEP MONITORING LOCATION
 - 60235 OIL/GAS WELL

- NOTES**
- SEE NOTES 1-2, SHEET 210.
 - NO CONSTRUCTION ACTIVITIES SHALL OCCUR WITHIN THE EXTENTS OF RAILROAD BUFFER ZONE. ALL PERSONNEL ARE PROHIBITED FROM ENTERING THE RAILROAD BUFFER ZONE WITHOUT PRIOR APPROVAL.
 - REGRADING CONTOURS MAY BE MODIFIED BY THE DESIGN ENGINEER FROM THOSE SHOWN, DEPENDING ON THE ACTUAL EXTENT OF SLAG REMOVAL.
 - EXTEND CATCH BASINS TO 6 INCHES BELOW FINAL GROUND SURFACE AS REQUIRED.



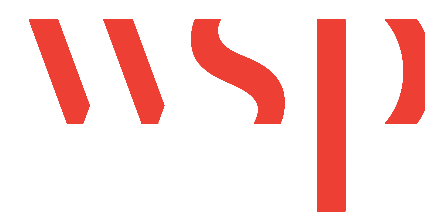
5	2026-02-23	SOUTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	BRB
4	2025-10-29	NORTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	RSA
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SEAL



CLIENT
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CONSULTANT



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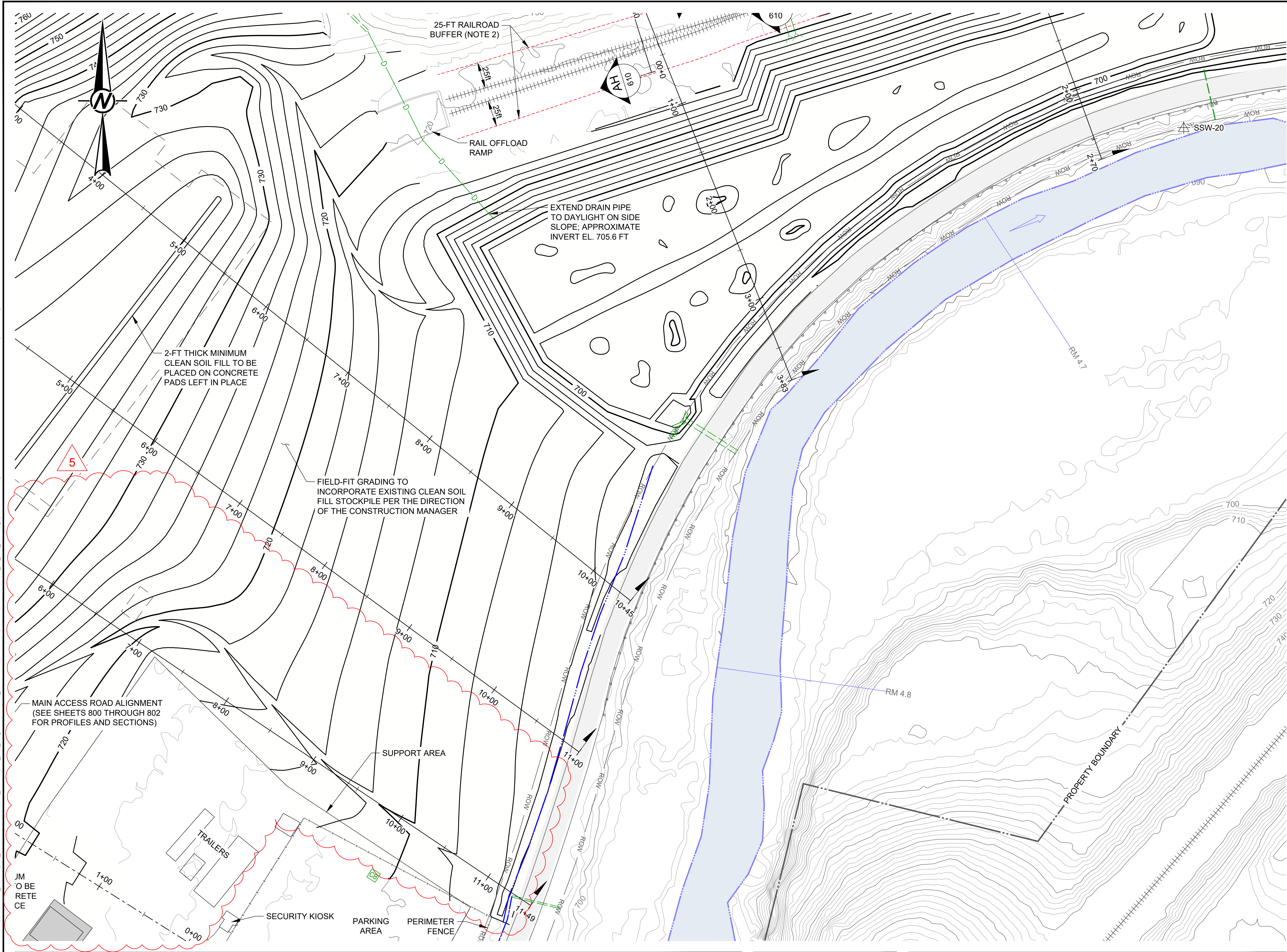
PROJECT
FORMER SATRALLOY SITE
SLAG REMOVAL INTERIM ACTION
JEFFERSON COUNTY, OHIO

TITLE
FINAL GRADING PLAN - NORTH LOWLANDS (1 OF 2)

PROJECT NO. 1239330907	PHASE 900	REV. 5	58 of 113	SHEET 400
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1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM A3S/D

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LEGEND

800

EXISTING MAJOR CONTOURS (10-FT INTERVAL)

EXISTING MINOR CONTOURS (2-FT INTERVAL)

750

FINAL GRADING SURFACE MAJOR CONTOURS (10-FT INTERVAL)

FINAL GRADING SURFACE MINOR CONTOURS (2-FT INTERVAL)

PROPERTY BOUNDARY

PROPERTY DEED OVERLAP

CROSS CREEK

EXISTING ON-SITE ACCESS ROAD

EXISTING COUNTY ROAD (PAVED)

COUNTY ROAD RIGHT-OF-WAY (ROW)

EXISTING CONCRETE PAD - TO BE MAINTAINED

EXISTING CONCRETE PAD - TO BE COVERED IN-PLACE

EXISTING BUILDING

EXISTING RIPRAP

EXISTING RAILROAD

EXISTING FENCE

EXISTING GUARDRAIL

O/H

EXISTING OVERHEAD ELECTRICAL LINE

TEL

EXISTING OVERHEAD TELEPHONE LINE

EXISTING DRAINAGE DITCH

D

EXISTING UNDERGROUND DRAINAGE PIPE

D

EXISTING CULVERT / DRAIN PIPE DISCHARGE

EXISTING UNDERGROUND DRAINAGE PIPE (DIA SHOWN)

EXISTING MANHOLE (UNVERIFIED)

EXISTING MANHOLE (VERIFIED)

EXISTING CATCH BASIN (UNVERIFIED)

EXISTING CATCH BASIN (VERIFIED)

EXISTING HEADWALL

EXISTING INLET

JURISDICTIONAL WETLANDS (USACE JURISDICTION)

JURISDICTIONAL TRIBUTARY (USACE JURISDICTION)

MW-01

GROUNDWATER MONITORING WELL

SSW-02

SEEP MONITORING LOCATION

60235

OIL/GAS WELL

NOTES

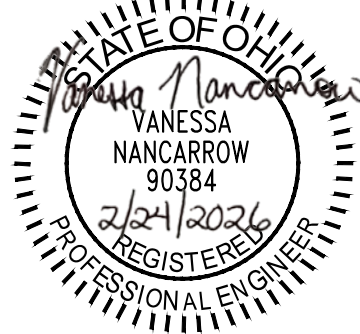
1. SEE NOTES 1-2, SHEET 210.

2. NO CONSTRUCTION ACTIVITIES SHALL OCCUR WITHIN THE EXTENTS OF RAILROAD BUFFER ZONE. ALL PERSONNEL ARE PROHIBITED FROM ENTERING THE RAILROAD BUFFER ZONE WITHOUT PRIOR APPROVAL.

3. REGRADING CONTOURS MAY BE MODIFIED BY THE DESIGN ENGINEER FROM THOSE SHOWN, DEPENDING ON THE ACTUAL EXTENT OF SLAG REMOVAL.

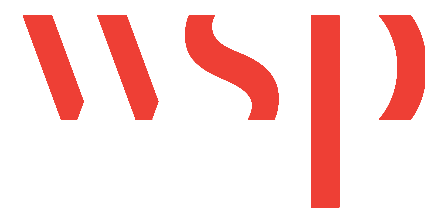
5	2026-02-23	SOUTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	BRB
4	2025-10-29	NORTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	RSA
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0	2025-03-08	ISSUED FOR CONSTRUCTION	VMN	REDMOND	FSS	RSA
REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED

SEAL



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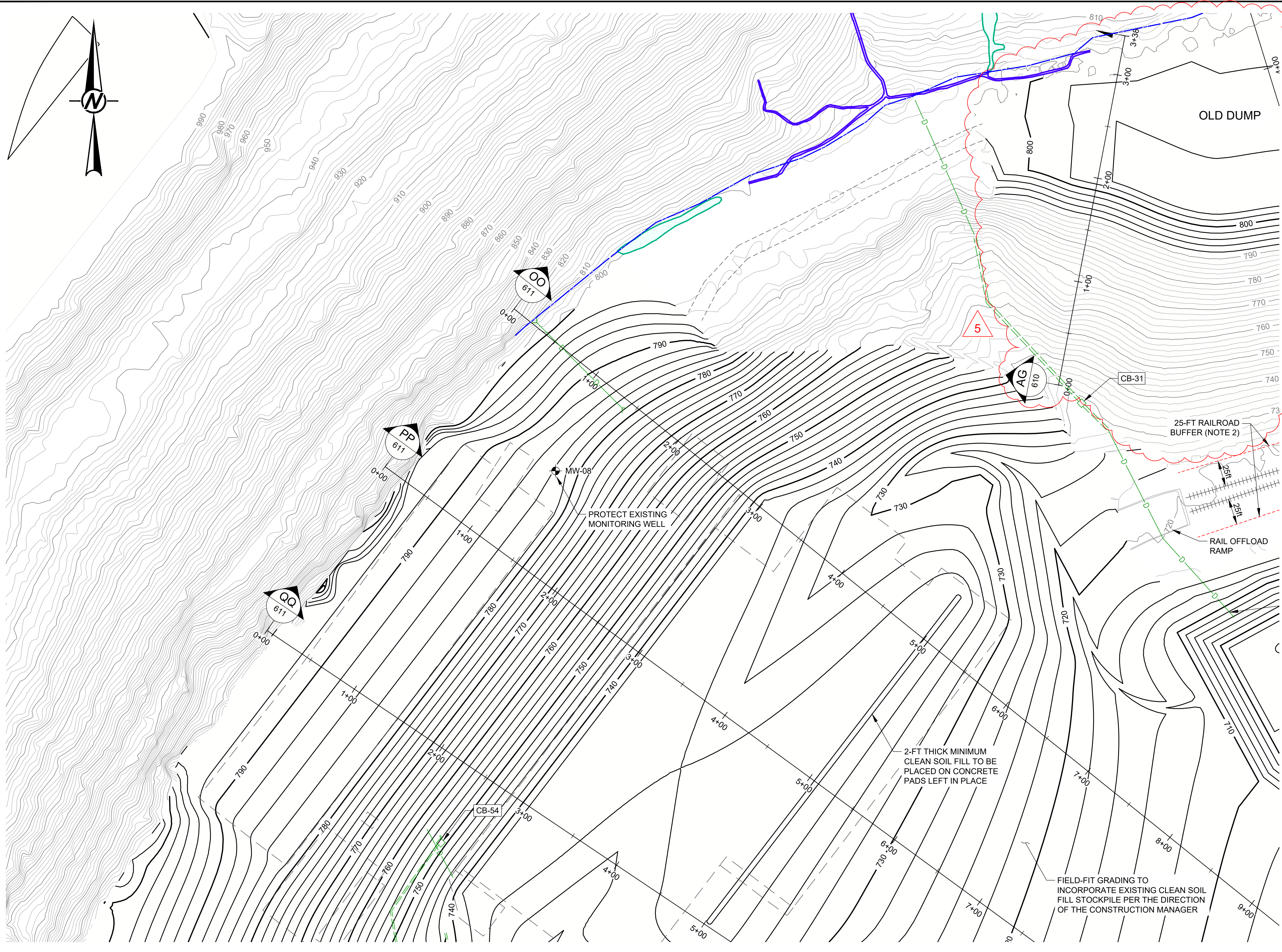
PROJECT
FORMER SATRALLOY SITE
SLAG REMOVAL INTERIM ACTION
JEFFERSON COUNTY, OHIO

TITLE
FINAL GRADING PLAN - NORTH LOWLANDS (2 OF 2)

PROJECT NO. 1239330907	PHASE 900	REV. 5	59 of 113	SHEET 401
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1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM A3S/D

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LEGEND

EXISTING MAJOR CONTOURS (10-FT INTERVAL)

EXISTING MINOR CONTOURS (2-FT INTERVAL)

FINAL GRADING SURFACE MAJOR CONTOURS (10-FT INTERVAL)

FINAL GRADING SURFACE MINOR CONTOURS (2-FT INTERVAL)

PROPERTY BOUNDARY

PROPERTY DEED OVERLAP

CROSS CREEK

EXISTING ON-SITE ACCESS ROAD

EXISTING COUNTY ROAD (PAVED)

COUNTY ROAD RIGHT-OF-WAY (ROW)

EXISTING CONCRETE PAD - TO BE MAINTAINED

EXISTING CONCRETE PAD - TO BE COVERED IN-PLACE

EXISTING BUILDING

EXISTING RIPRAP

EXISTING RAILROAD

EXISTING FENCE

EXISTING GUARDRAIL

EXISTING OVERHEAD ELECTRICAL LINE

EXISTING OVERHEAD TELEPHONE LINE

EXISTING DRAINAGE DITCH

EXISTING UNDERGROUND DRAINAGE PIPE

EXISTING CULVERT / DRAIN PIPE DISCHARGE

EXISTING UNDERGROUND DRAINAGE PIPE (DIA SHOWN)

EXISTING MANHOLE (UNVERIFIED)

EXISTING MANHOLE (VERIFIED)

EXISTING CATCH BASIN (UNVERIFIED)

EXISTING CATCH BASIN (VERIFIED)

EXISTING HEADWALL

EXISTING INLET

JURISDICTIONAL WETLANDS (USACE JURISDICTION)

JURISDICTIONAL TRIBUTARY (USACE JURISDICTION)

MW-01

SSW-02

60235

OIL/GAS WELL

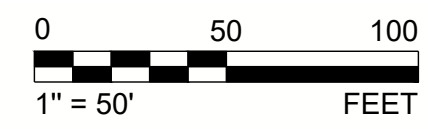
- NOTES**
1.

SEE NOTES 1-2, SHEET 210.
2.

NO CONSTRUCTION ACTIVITIES SHALL OCCUR WITHIN THE EXTENTS OF RAILROAD BUFFER ZONE. ALL PERSONNEL ARE PROHIBITED FROM ENTERING THE RAILROAD BUFFER ZONE WITHOUT PRIOR APPROVAL.
3.

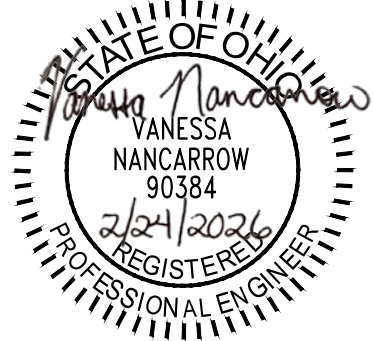
REGRADING CONTOURS MAY BE MODIFIED BY THE DESIGN ENGINEER FROM THOSE SHOWN, DEPENDING ON THE ACTUAL EXTENT OF SLAG REMOVAL.
4.

EXTEND CATCH BASINS TO 6 INCHES BELOW FINAL GROUND SURFACE AS REQUIRED.



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REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED

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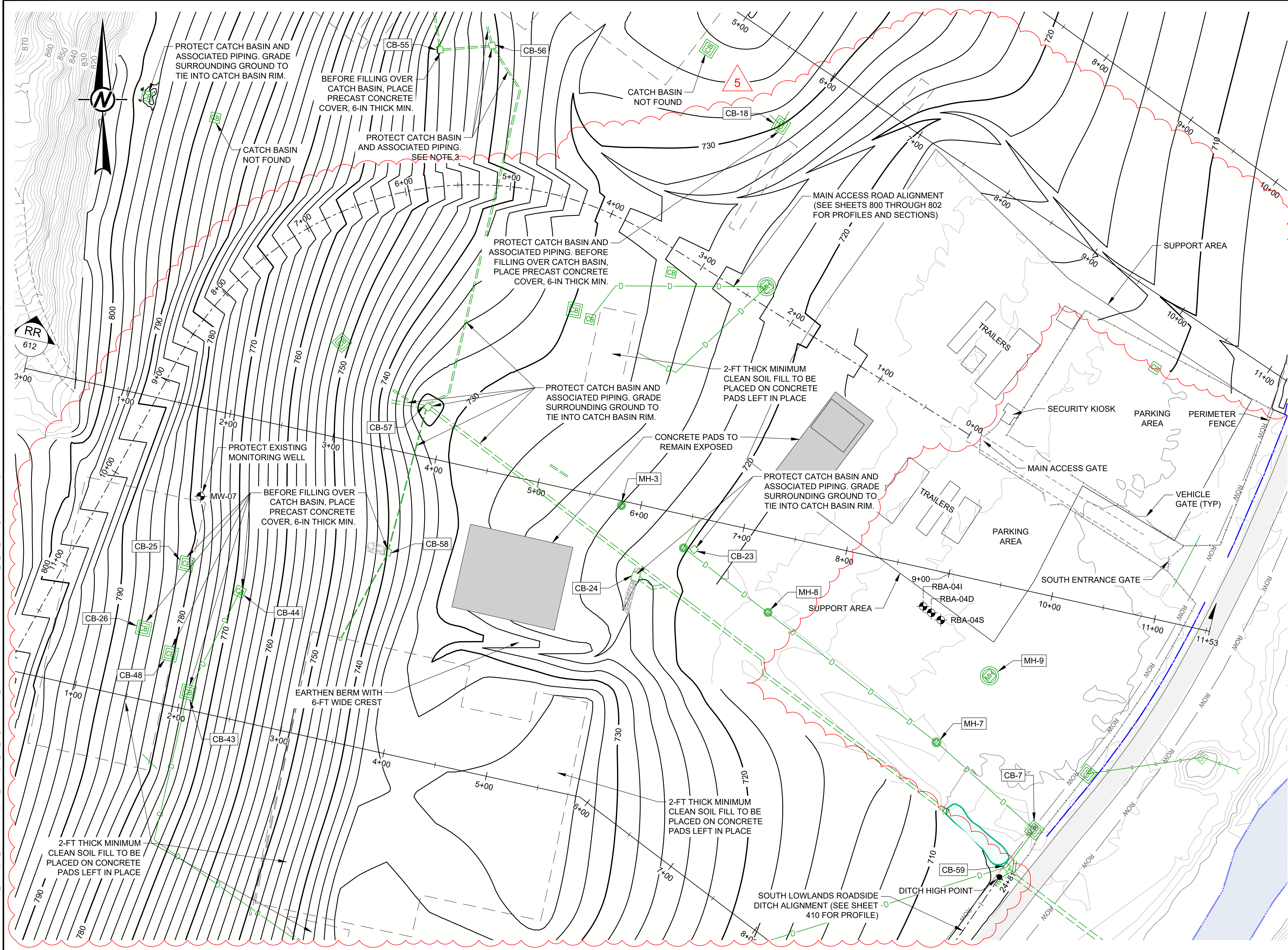


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PROJECT
FORMER SATRALLOY SITE
SLAG REMOVAL INTERIM ACTION
JEFFERSON COUNTY, OHIO
TITLE
FINAL GRADING PLAN - PLANT AREA (1 OF 2)

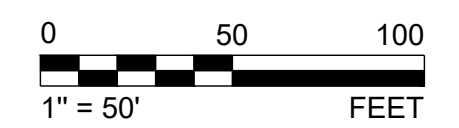
PROJECT NO. 1239330907	PHASE 900	REV. 5	60 of 113	SHEET 402
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- LEGEND**
- 800 — EXISTING MAJOR CONTOURS (10-FT INTERVAL)
 - EXISTING MINOR CONTOURS (2-FT INTERVAL)
 - 750 — FINAL GRADING SURFACE MAJOR CONTOURS (10-FT INTERVAL)
 - FINAL GRADING SURFACE MINOR CONTOURS (2-FT INTERVAL)
 - PROPERTY BOUNDARY
 - ▨ PROPERTY DEED OVERLAP
 - CROSS CREEK
 - EXISTING ON-SITE ACCESS ROAD
 - EXISTING COUNTY ROAD (PAVED)
 - COUNTY ROAD RIGHT-OF-WAY (ROW)
 - EXISTING CONCRETE PAD - TO BE MAINTAINED
 - EXISTING CONCRETE PAD - TO BE COVERED IN-PLACE
 - EXISTING BUILDING
 - EXISTING RIPRAP
 - EXISTING RAILROAD
 - EXISTING FENCE
 - EXISTING GUARDRAIL
 - O/H — EXISTING OVERHEAD ELECTRICAL LINE
 - TEL — EXISTING OVERHEAD TELEPHONE LINE
 - EXISTING DRAINAGE DITCH
 - EXISTING UNDERGROUND DRAINAGE PIPE
 - EXISTING CULVERT / DRAIN PIPE DISCHARGE
 - EXISTING UNDERGROUND DRAINAGE PIPE (DIA SHOWN)
 - EXISTING MANHOLE (UNVERIFIED)
 - EXISTING MANHOLE (VERIFIED)
 - EXISTING CATCH BASIN (UNVERIFIED)
 - EXISTING CATCH BASIN (VERIFIED)
 - EXISTING HEADWALL
 - EXISTING INLET
 - JURISDICTIONAL WETLANDS (USACE JURISDICTION)
 - JURISDICTIONAL TRIBUTARY (USACE JURISDICTION)
 - MW-01 — GROUNDWATER MONITORING WELL
 - SSW-02 — SEEP MONITORING LOCATION
 - 60235 — OIL/GAS WELL

- NOTES**
- SEE NOTES 1-2, SHEET 210.
 - REGRADE CONTOURS MAY BE MODIFIED BY THE DESIGN ENGINEER FROM THOSE SHOWN, DEPENDING ON THE ACTUAL EXTENT OF SLAG REMOVAL.
 - BEFORE FILLING OVER EXISTING CATCH BASIN, CLEAN OUT SEDIMENT, SEAL HOLE IN THE WEST SIDE WALL BY PLACING PLYWOOD AND GROUTING BEHIND IT, AND PLACE PRECAST CONCRETE COVER, 6-IN THICK MIN.



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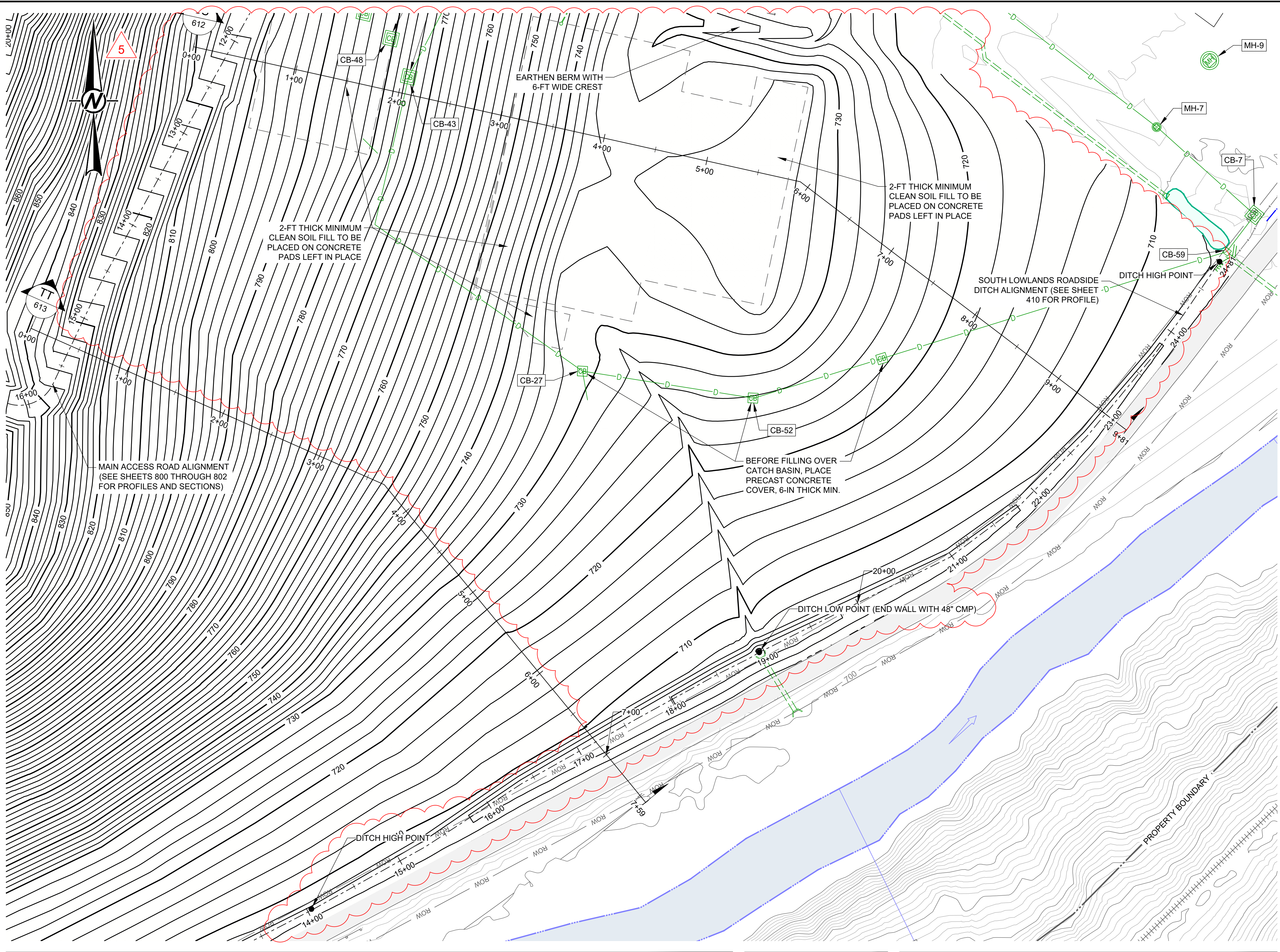


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PROJECT FORMER SATRALLOY SITE SLAG REMOVAL INTERIM ACTION JEFFERSON COUNTY, OHIO		TITLE FINAL GRADING PLAN - PLANT AREA (2 OF 2)	
PROJECT NO. 1239330907	PHASE 900	REV. 5	61 of 113 SHEET 403

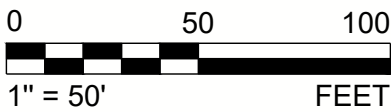
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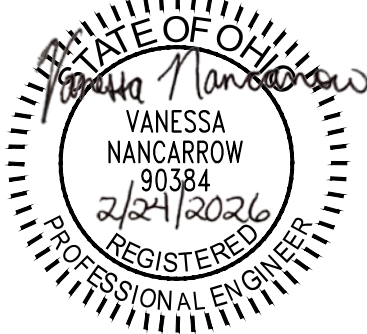
- LEGEND**
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 - 60235 — OIL/GAS WELL

- NOTES**
- SEE NOTES 1-2, SHEET 210.
 - REGRADING CONTOURS MAY BE MODIFIED BY THE DESIGN ENGINEER FROM THOSE SHOWN, DEPENDING ON THE ACTUAL EXTENT OF SLAG REMOVAL.



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REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED

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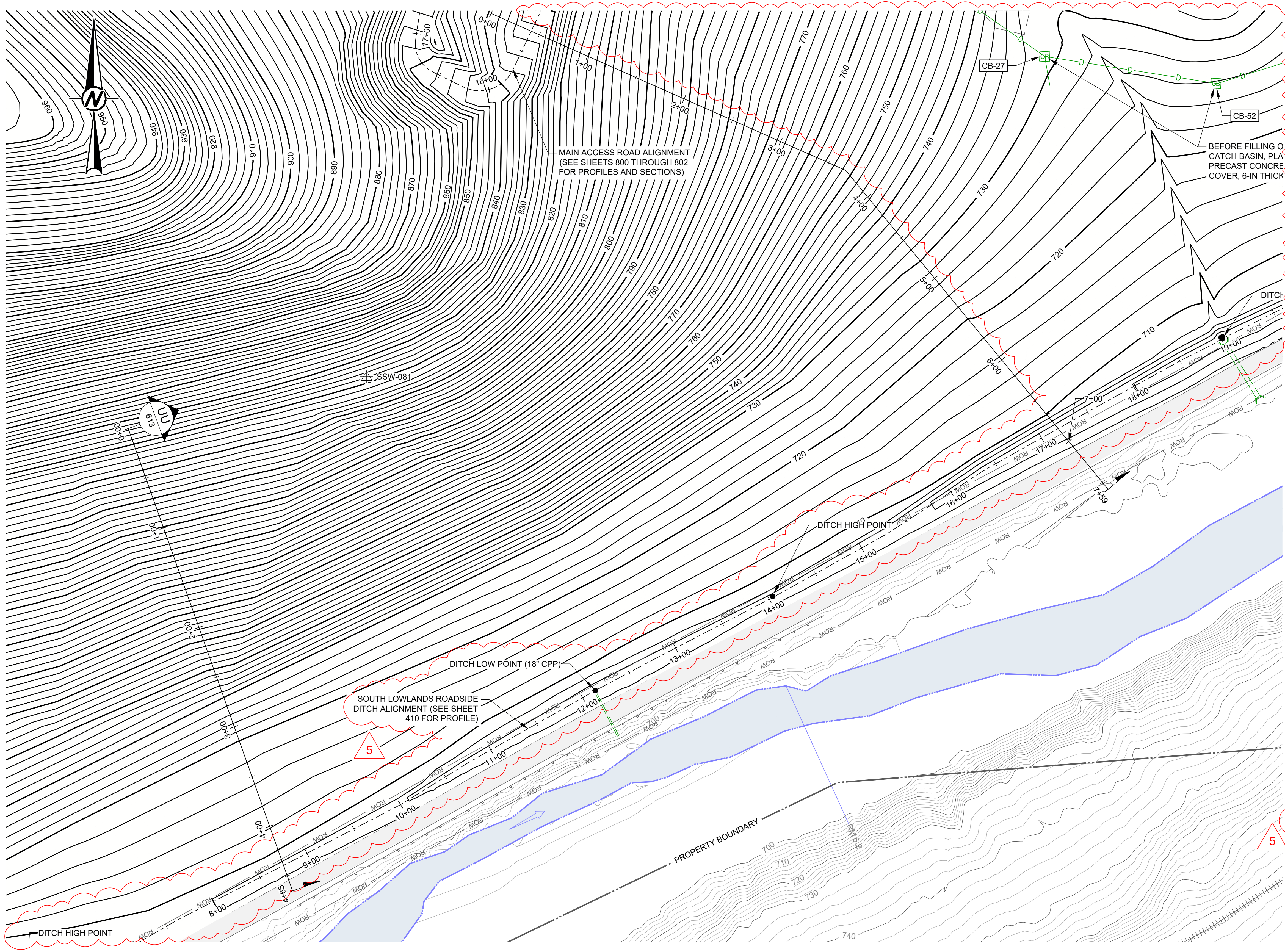
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PROJECT
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SLAG REMOVAL INTERIM ACTION
JEFFERSON COUNTY, OHIO

TITLE
FINAL GRADING PLAN - SOUTH LOWLANDS (1 OF 3)

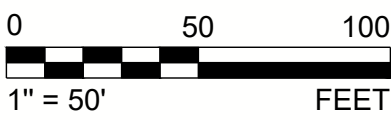
PROJECT NO. 1239330907	PHASE 900	REV. 5	62 of 113	SHEET 404
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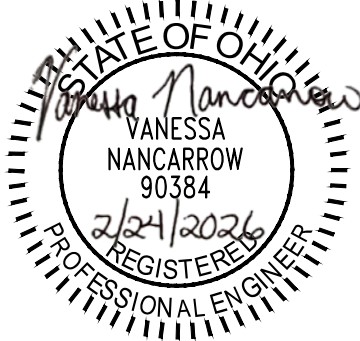
- LEGEND**
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 - 60235 OIL/GAS WELL

- NOTES**
- SEE NOTES 1-2, SHEET 210.
 - REGRADING CONTOURS MAY BE MODIFIED BY THE DESIGN ENGINEER FROM THOSE SHOWN, DEPENDING ON THE ACTUAL EXTENT OF SLAG REMOVAL.



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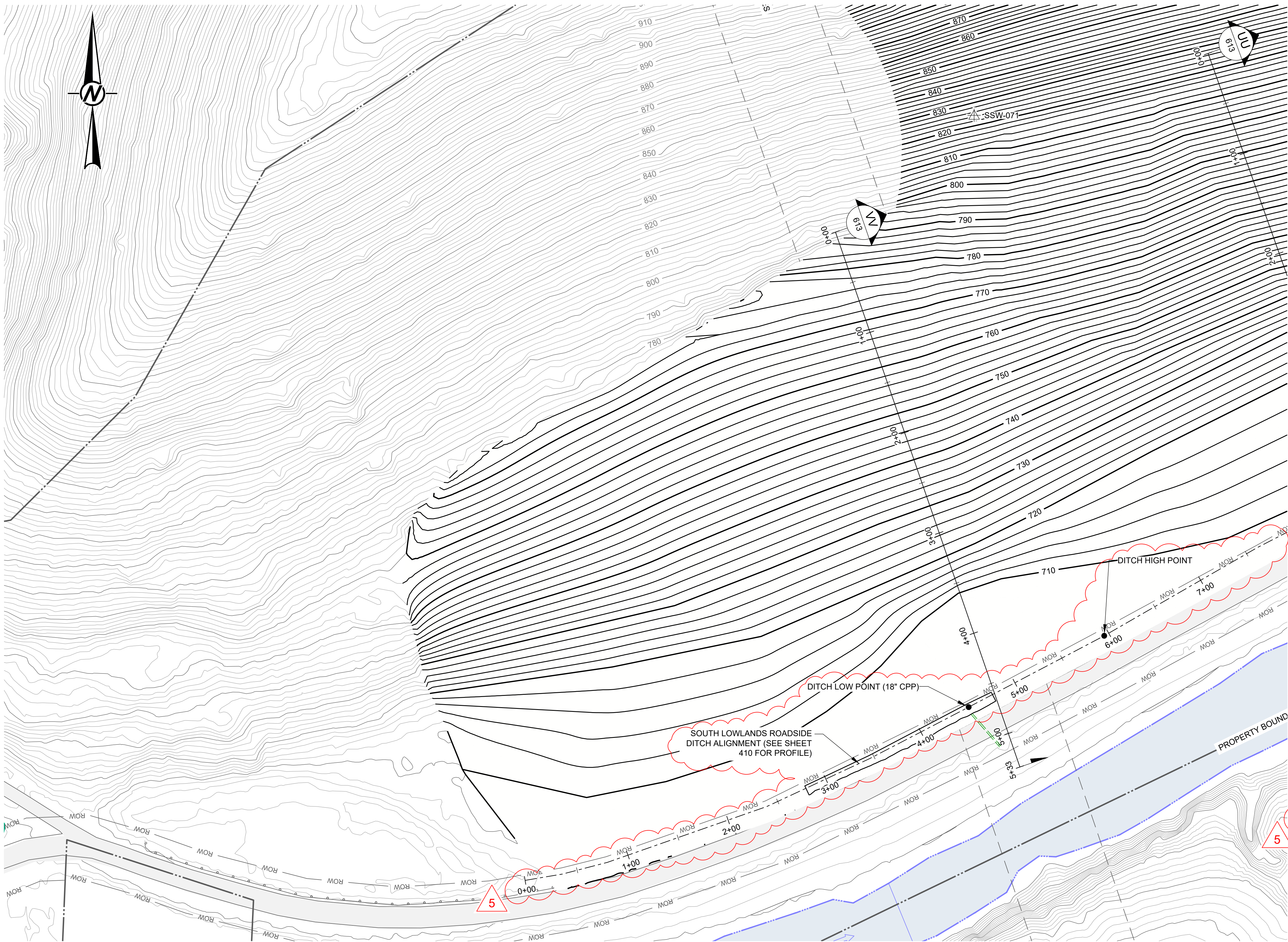
PROJECT
FORMER SATRALLOY SITE
SLAG REMOVAL INTERIM ACTION
JEFFERSON COUNTY, OHIO

TITLE
FINAL GRADING PLAN - SOUTH LOWLANDS (2 OF 3)

PROJECT NO. 1239330907	PHASE 900	REV. 5	63 of 113	SHEET 405
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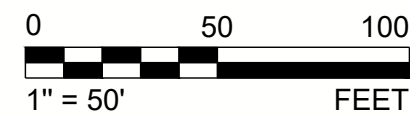
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- LEGEND**
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- NOTES**
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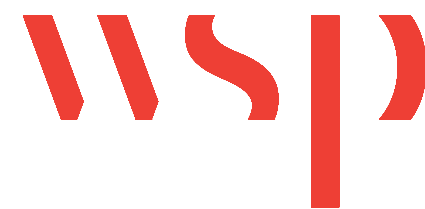
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REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED

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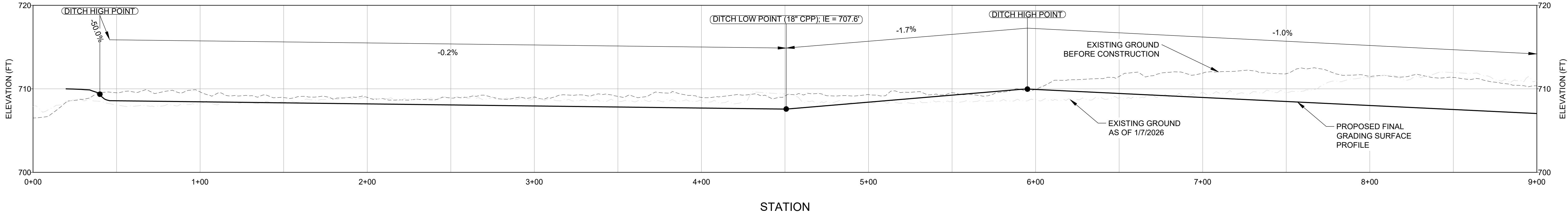
PROJECT
FORMER SATRALLOY SITE
SLAG REMOVAL INTERIM ACTION
JEFFERSON COUNTY, OHIO

TITLE
FINAL GRADING PLAN - SOUTH LOWLANDS (3 OF 3)

PROJECT NO. 1239330907	PHASE 900	REV. 5	64 of 113	SHEET 406
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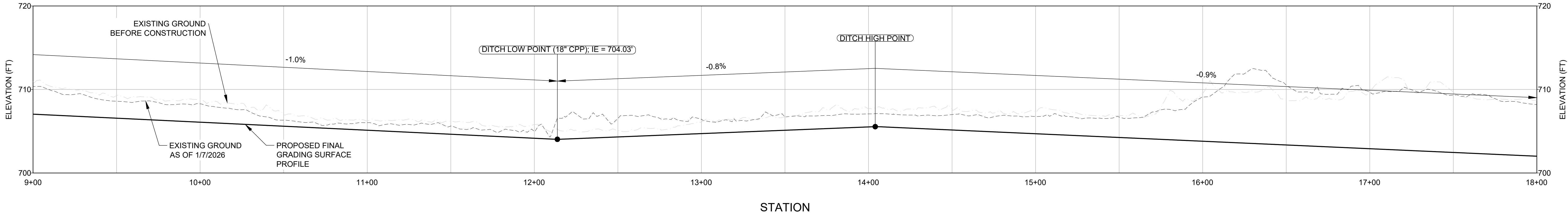
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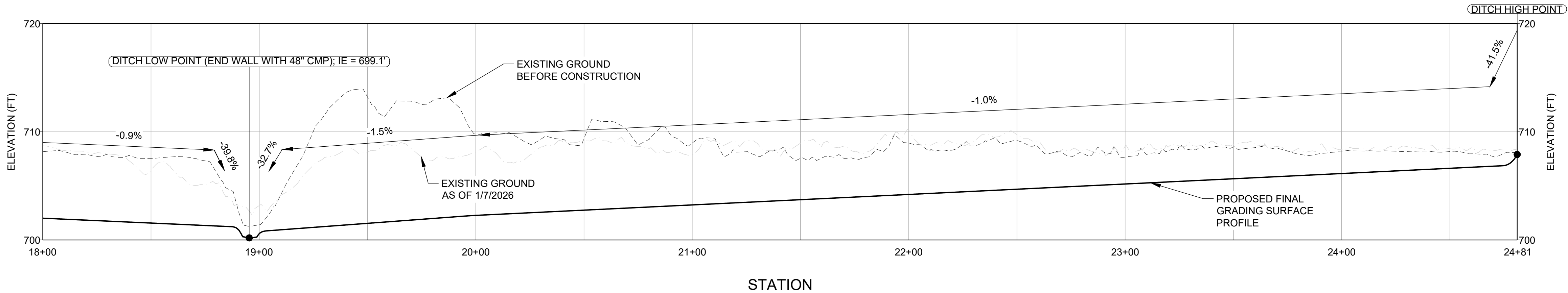
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SOUTH LOWLANDS ROADSIDE DITCH - STA 0+00 to 9+00



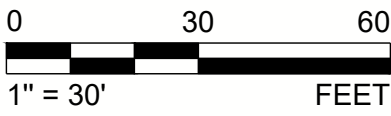
SCALE 1" = 30'
VERT. SCALE 1:5

SOUTH LOWLANDS ROADSIDE DITCH - STA 9+00 TO 18+00



SCALE 1" = 30'
VERT. SCALE 1:5

SOUTH LOWLANDS ROADSIDE DITCH - STA 18+00 to 24+81



5	2026-02-23	SOUTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	BRB
4	2025-10-29	NORTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	RSA
3	2025-09-22	MINE AREA STOCKPILE EXPANSION IN NE CORNER	VMN	REDMOND	FSS	RSA
2	2025-07-25	RFI-27: UPPER RAIL FINAL GRADING PLAN	VMN	REDMOND	FSS	RSA
1	2025-04-25	NORTH LOWLANDS DRAINAGE REVISION	VMN	REDMOND	FSS	RSA
0	2025-03-08	ISSUED FOR CONSTRUCTION	VMN	REDMOND	FSS	RSA
REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED

SEAL



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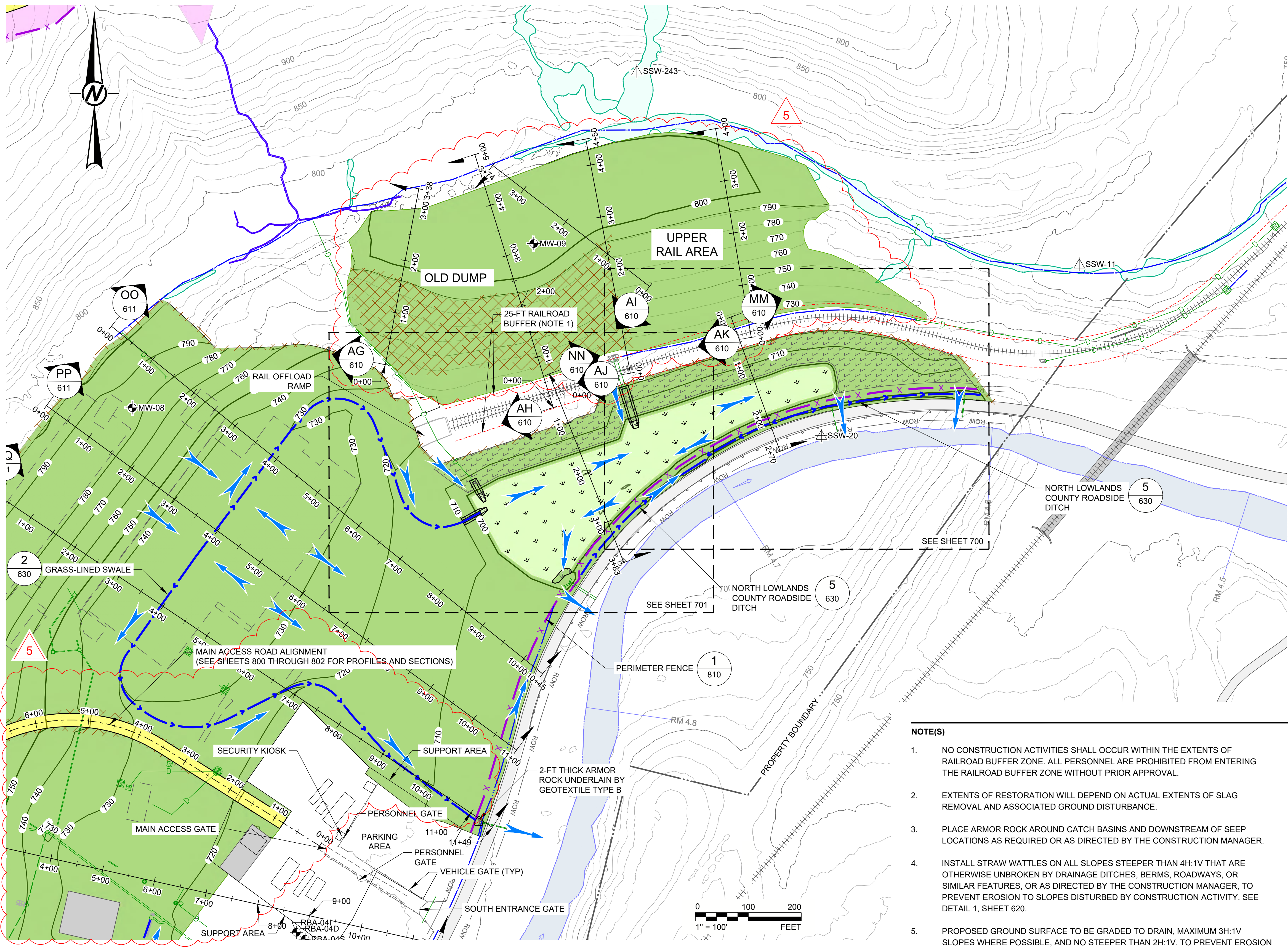
REDMOND
18300 REDMOND WAY, SUITE 200
REDMOND, WA
USA
[+1] (425) 883 0777

PROJECT
FORMER SATRALLOY SITE
SLAG REMOVAL INTERIM ACTION
JEFFERSON COUNTY, OHIO

TITLE
SOUTH LOWLANDS ROADSIDE DITCH SECTIONS

PROJECT NO. 1239330907	PHASE 900	REV. 5	65 of 113	SHEET 410
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LEGEND

800

EXISTING MAJOR CONTOURS (50-FT INTERVAL)

750

EXISTING MINOR CONTOURS (10-FT INTERVAL)

750

FINAL GRADING SURFACE MAJOR CONTOURS (50-FT INTERVAL)

750

FINAL GRADING SURFACE MINOR CONTOURS (10-FT INTERVAL)

PROPERTY BOUNDARY

PROPERTY DEED OVERLAP

CROSS CREEK

EXISTING ON-SITE ACCESS ROAD

EXISTING COUNTY ROAD (PAVED)

COUNTY ROAD RIGHT-OF-WAY (ROW)

EXISTING CONCRETE PAD - TO BE MAINTAINED

EXISTING CONCRETE PAD - TO BE COVERED IN-PLACE

EXISTING BUILDING

EXISTING RIPRAP

EXISTING RAILROAD

EXISTING FENCE

EXISTING GUARDRAIL

EXISTING DRAINAGE DITCH

EXISTING UNDERGROUND DRAINAGE PIPE

EXISTING CULVERT / DRAIN PIPE DISCHARGE

EXISTING UNDERGROUND DRAINAGE PIPE (DIA SHOWN)

EXISTING DRAINAGE (GPR)

EXISTING MANHOLE (UNVERIFIED)

EXISTING MANHOLE (VERIFIED)

EXISTING CATCH BASIN (UNVERIFIED)

EXISTING CATCH BASIN (VERIFIED)

EXISTING HEADWALL

EXISTING INLET

JURISDICTIONAL WETLANDS (USACE JURISDICTION)

JURISDICTIONAL TRIBUTARY (USACE JURISDICTION)

MW-01

GROUNDWATER MONITORING WELL

SSW-02

SEEP MONITORING LOCATION

60235

OIL/GAS WELL

PROPOSED MAIN ACCESS ROAD

PROPOSED MILKWEED, NATIVE WILDFLOWER, & GRASS MIX SEEDING AREA

PROPOSED NATIVE GRASS MIX SEEDING AREA

PROPOSED ENHANCED WOODLAND HABITAT AREA

PROPOSED EROSION AND SEDIMENT CONTROL MAT

PROPOSED CONSTRUCTED WETLANDS

PROPOSED ARMOR ROCK

PROPOSED DRAINAGE

PROPOSED FENCE

FLOW DIRECTION

- NOTE(S)**
1.

NO CONSTRUCTION ACTIVITIES SHALL OCCUR WITHIN THE EXTENTS OF RAILROAD BUFFER ZONE. ALL PERSONNEL ARE PROHIBITED FROM ENTERING THE RAILROAD BUFFER ZONE WITHOUT PRIOR APPROVAL.

2.

EXTENTS OF RESTORATION WILL DEPEND ON ACTUAL EXTENTS OF SLAG REMOVAL AND ASSOCIATED GROUND DISTURBANCE.

3.

PLACE ARMOR ROCK AROUND CATCH BASINS AND DOWNSTREAM OF SEEP LOCATIONS AS REQUIRED OR AS DIRECTED BY THE CONSTRUCTION MANAGER.

4.

INSTALL STRAW WATTLES ON ALL SLOPES STEEPER THAN 4H:1V THAT ARE OTHERWISE UNBROKEN BY DRAINAGE DITCHES, BERMS, ROADWAYS, OR SIMILAR FEATURES, OR AS DIRECTED BY THE CONSTRUCTION MANAGER, TO PREVENT EROSION TO SLOPES DISTURBED BY CONSTRUCTION ACTIVITY. SEE DETAIL 1, SHEET 620.

5.

PROPOSED GROUND SURFACE TO BE GRADED TO DRAIN, MAXIMUM 3H:1V SLOPES WHERE POSSIBLE, AND NO STEEPER THAN 2H:1V. TO PREVENT EROSION

6.

OF CLEAN SOIL FILL, EROSION CONTROL MAT SHALL BE INSTALLED ON SLOPES GRADED STEEPER THAN 3H:1V AND ALONG TOP OF ALL FILL SLOPES (10FT MINIMUM WIDTH UP AND DOWN THE SLOPE) WHERE THEY MEET NATIVE SLOPES. SEE DETAIL 2, SHEET 620.

7.

WHERE EROSION AND SEDIMENT CONTROL MEASURES ARE NOT SHOWN ON THE DRAWINGS, THEY SHALL BE INSTALLED AS NEEDED OR AS DIRECTED BY THE CONSTRUCTION MANAGER.

8.

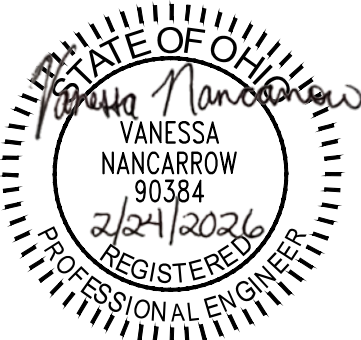
SPREAD LARGE WOODY DEBRIS RETAINED FROM CLEARING ACROSS RESTORATION AREAS AS DIRECTED BY THE CONSTRUCTION MANAGER.

9.

ALL DITCH LINES AND CULVERT INLETS ALONG COUNTY ROAD 74 SHALL BE REESTABLISHED.

5	2026-02-23	SOUTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	BRB
4	2025-10-29	NORTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	RSA
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2	2025-07-25	RFI-27: UPPER RAIL FINAL GRADING PLAN	VMN	REDMOND	FSS	RSA
1	2025-04-25	NORTH LOWLANDS DRAINAGE REVISION	VMN	REDMOND	FSS	RSA
0	2025-03-08	ISSUED FOR CONSTRUCTION	VMN	REDMOND	FSS	RSA
REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED

SEAL



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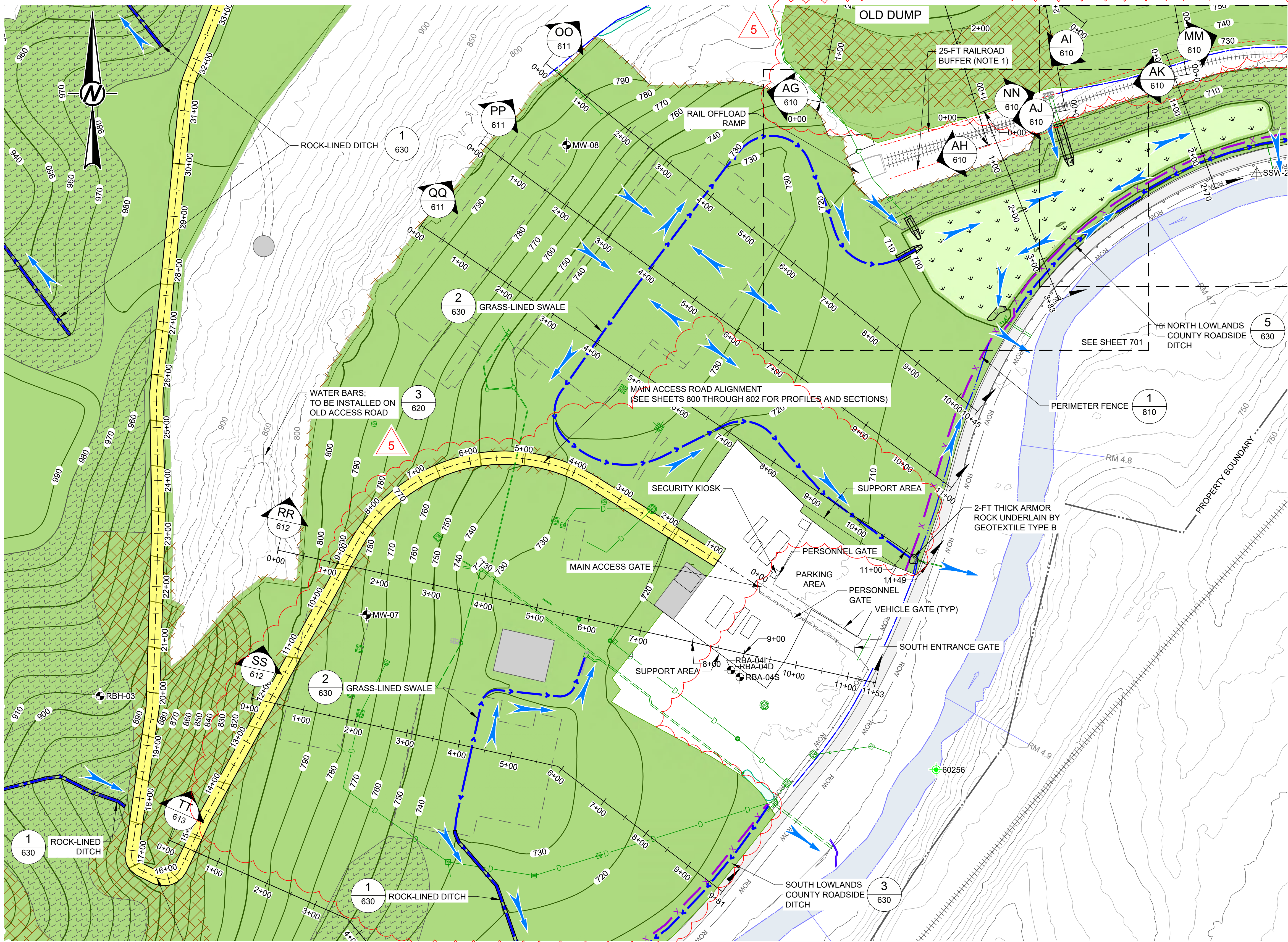


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PROJECT
FORMER SATRALLOY SITE
SLAG REMOVAL INTERIM ACTION
JEFFERSON COUNTY, OHIO

TITLE
RESTORATION PLAN - NORTH LOWLANDS

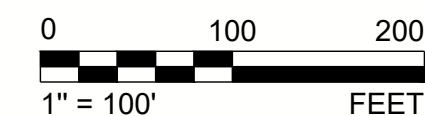
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- LEGEND**
- 800 — EXISTING MAJOR CONTOURS (50-FT INTERVAL)
 - EXISTING MINOR CONTOURS (10-FT INTERVAL)
 - 750 — FINAL GRADING SURFACE MAJOR CONTOURS (50-FT INTERVAL)
 - FINAL GRADING SURFACE MINOR CONTOURS (10-FT INTERVAL)
 - PROPERTY BOUNDARY
 - PROPERTY DEED OVERLAP
 - CROSS CREEK
 - EXISTING ON-SITE ACCESS ROAD
 - EXISTING COUNTY ROAD (PAVED)
 - COUNTY ROAD RIGHT-OF-WAY (ROW)
 - EXISTING CONCRETE PAD - TO BE MAINTAINED
 - EXISTING CONCRETE PAD - TO BE COVERED IN-PLACE
 - EXISTING BUILDING
 - EXISTING RIPRAP
 - EXISTING RAILROAD
 - EXISTING FENCE
 - EXISTING GUARDRAIL
 - EXISTING DRAINAGE DITCH
 - EXISTING UNDERGROUND DRAINAGE PIPE
 - EXISTING CULVERT / DRAIN PIPE DISCHARGE
 - EXISTING UNDERGROUND DRAINAGE PIPE (DIA SHOWN)
 - EXISTING DRAINAGE (GPR)
 - EXISTING MANHOLE (UNVERIFIED)
 - EXISTING MANHOLE (VERIFIED)
 - EXISTING CATCH BASIN (UNVERIFIED)
 - EXISTING CATCH BASIN (VERIFIED)
 - EXISTING HEADWALL
 - EXISTING INLET
 - JURISDICTIONAL WETLANDS (USACE JURISDICTION)
 - JURISDICTIONAL TRIBUTARY (USACE JURISDICTION)
 - MW-01 — GROUNDWATER MONITORING WELL
 - SSW-02 — SEEP MONITORING LOCATION
 - 60235 — OIL/GAS WELL
 - PROPOSED MAIN ACCESS ROAD
 - PROPOSED MILKWEED, NATIVE WILDFLOWER, & GRASS MIX SEEDING AREA
 - PROPOSED NATIVE GRASS MIX SEEDING AREA
 - PROPOSED ENHANCED WOODLAND HABITAT AREA
 - PROPOSED EROSION AND SEDIMENT CONTROL MAT
 - PROPOSED CONSTRUCTED WETLANDS
 - PROPOSED ARMOR ROCK
 - PROPOSED DRAINAGE
 - PROPOSED FENCE
 - FLOW DIRECTION

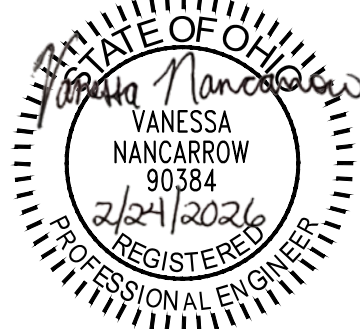
NOTE(S)

1. SEE NOTES 1-9, SHEET 601.



5	2026-02-23	SOUTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	BRB
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1	2025-04-25	NORTH LOWLANDS DRAINAGE REVISION	VMN	REDMOND	FSS	RSA
0	2025-03-08	ISSUED FOR CONSTRUCTION	VMN	REDMOND	FSS	RSA
REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED

SEAL



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CYPRUS AMAX MINERALS COMPANY

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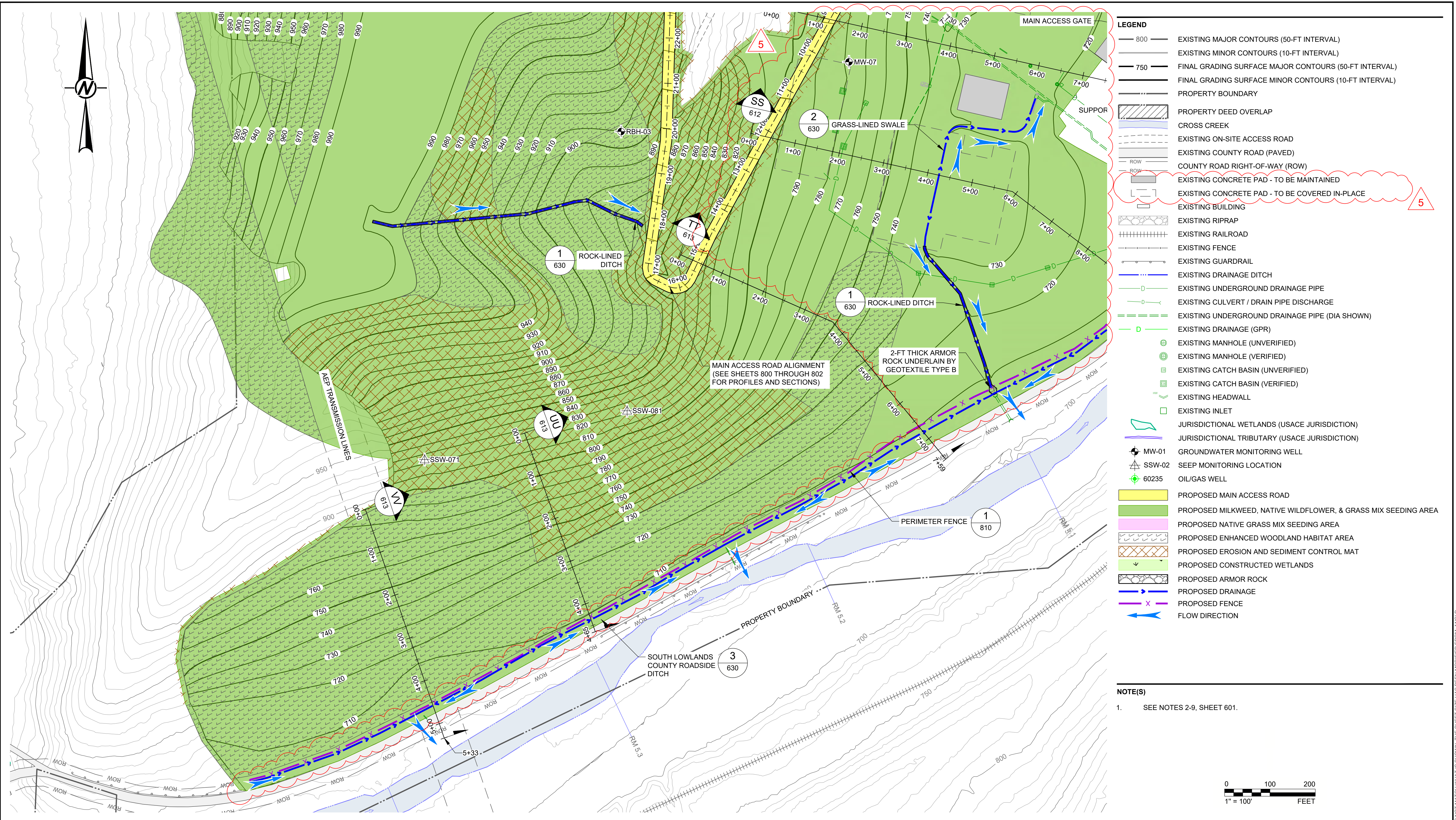


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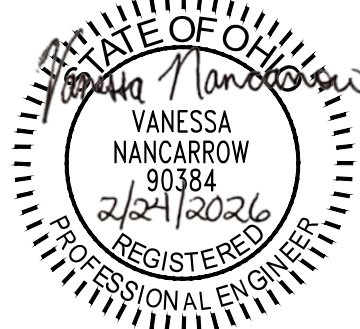
PROJECT
FORMER SATRALLOY SITE
SLAG REMOVAL INTERIM ACTION
JEFFERSON COUNTY, OHIO

TITLE
RESTORATION PLAN - PLANT AREA

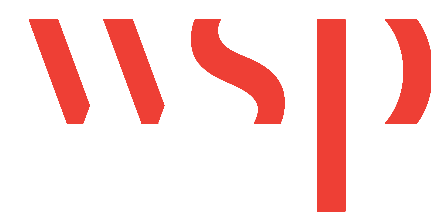
PROJECT NO. 1239330907	PHASE 900	REV. 5	93 of 113	SHEET 602
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5	2026-02-23	SOUTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	BRB
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0	2025-03-08	ISSUED FOR CONSTRUCTION	VMN	REDMOND	FSS	RSA
REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED



CONSULTANT

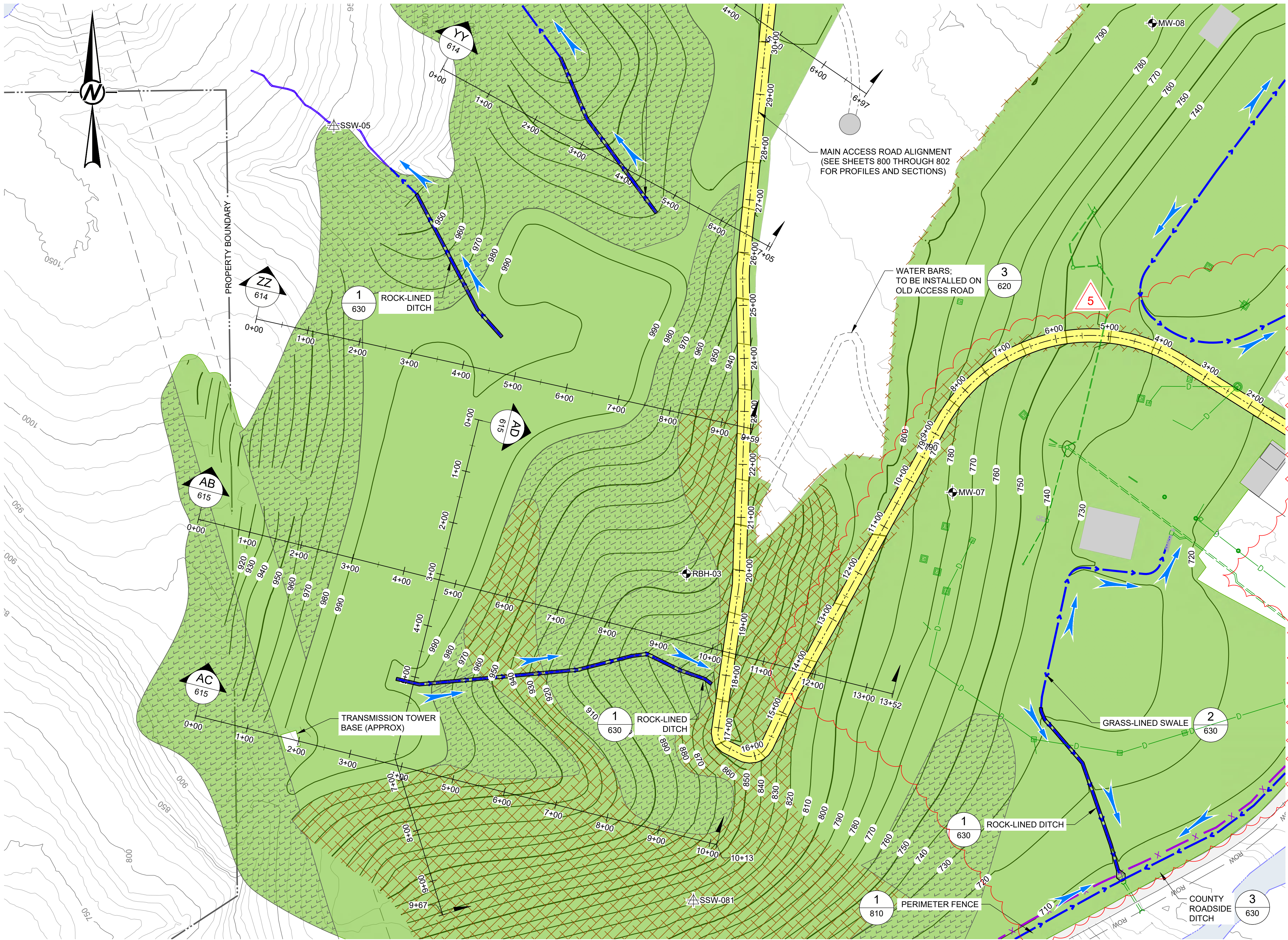


PROJECT
FORMER SATRALLOY SITE
SLAG REMOVAL INTERIM ACTION
JEFFERSON COUNTY, OHIO

TITLE
RESTORATION PLAN - SOUTH LOWLANDS

PROJECT NO.	PHASE	REV.	94 of 113	SHEET
1239330907	900	5		603

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LEGEND

800

EXISTING MAJOR CONTOURS (50-FT INTERVAL)

750

EXISTING MINOR CONTOURS (10-FT INTERVAL)

750

FINAL GRADING SURFACE MAJOR CONTOURS (50-FT INTERVAL)

750

FINAL GRADING SURFACE MINOR CONTOURS (10-FT INTERVAL)

PROPERTY BOUNDARY

PROPERTY DEED OVERLAP

CROSS CREEK

EXISTING ON-SITE ACCESS ROAD

EXISTING COUNTY ROAD (PAVED)

COUNTY ROAD RIGHT-OF-WAY (ROW)

EXISTING CONCRETE PAD - TO BE MAINTAINED

EXISTING CONCRETE PAD - TO BE COVERED IN-PLACE

EXISTING BUILDING

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EXISTING HEADWALL

EXISTING INLET

JURISDICTIONAL WETLANDS (USACE JURISDICTION)

JURISDICTIONAL TRIBUTARY (USACE JURISDICTION)

MW-01

GROUNDWATER MONITORING WELL

SSW-02

SEEP MONITORING LOCATION

60235

OIL/GAS WELL

PROPOSED MAIN ACCESS ROAD

PROPOSED MILKWEED, NATIVE WILDFLOWER, & GRASS MIX SEEDING AREA

PROPOSED NATIVE GRASS MIX SEEDING AREA

PROPOSED ENHANCED WOODLAND HABITAT AREA

PROPOSED EROSION AND SEDIMENT CONTROL MAT

PROPOSED CONSTRUCTED WETLANDS

PROPOSED ARMOR ROCK

PROPOSED DRAINAGE

PROPOSED FENCE

FLOW DIRECTION

NOTE(S)

1. SEE NOTES 2-9, SHEET 601.

0

100

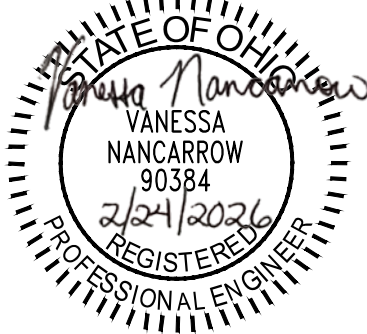
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1" = 100'

FEET

5	2026-02-23	SOUTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	BRB
4	2025-10-29	NORTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	RSA
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1	2025-04-25	NORTH LOWLANDS DRAINAGE REVISION	VMN	REDMOND	FSS	RSA
0	2025-03-08	ISSUED FOR CONSTRUCTION	VMN	REDMOND	FSS	RSA
REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED

SEAL



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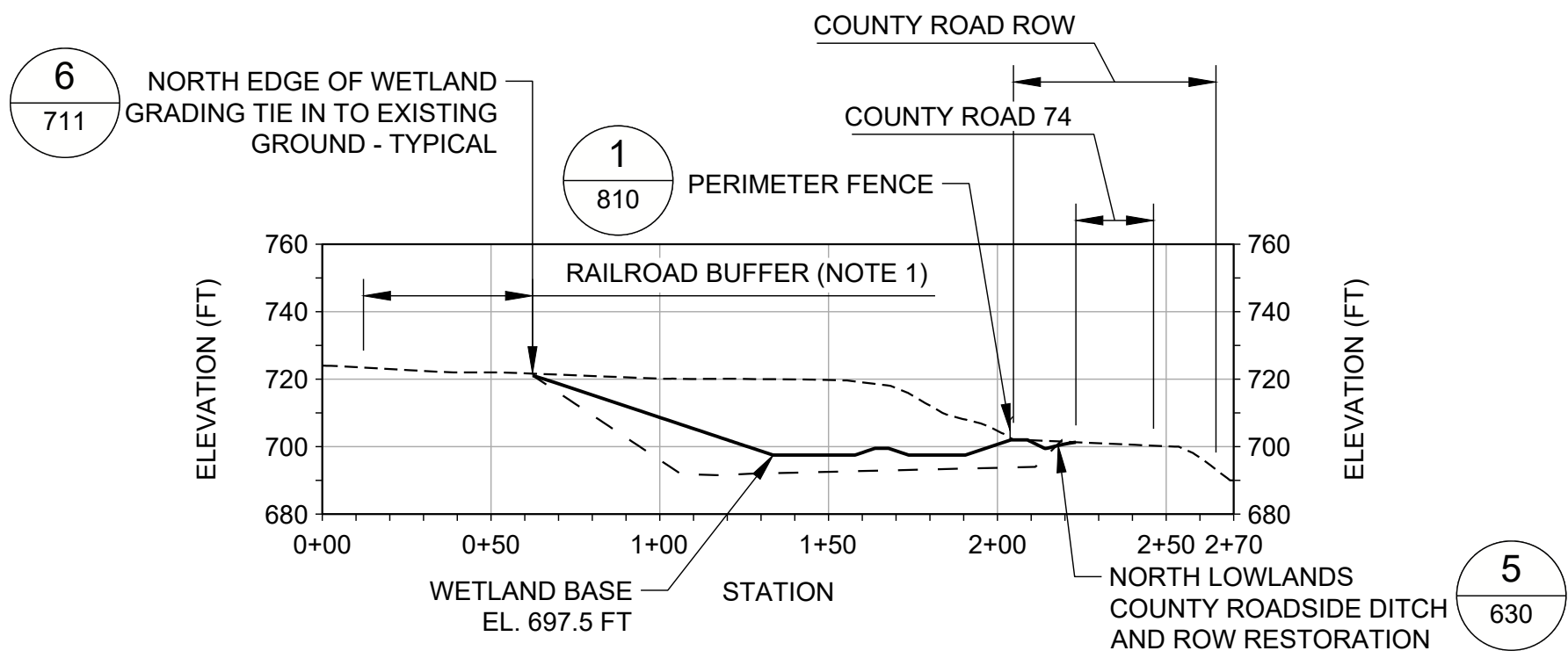
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PROJECT
FORMER SATRALLOY SITE
SLAG REMOVAL INTERIM ACTION
JEFFERSON COUNTY, OHIO

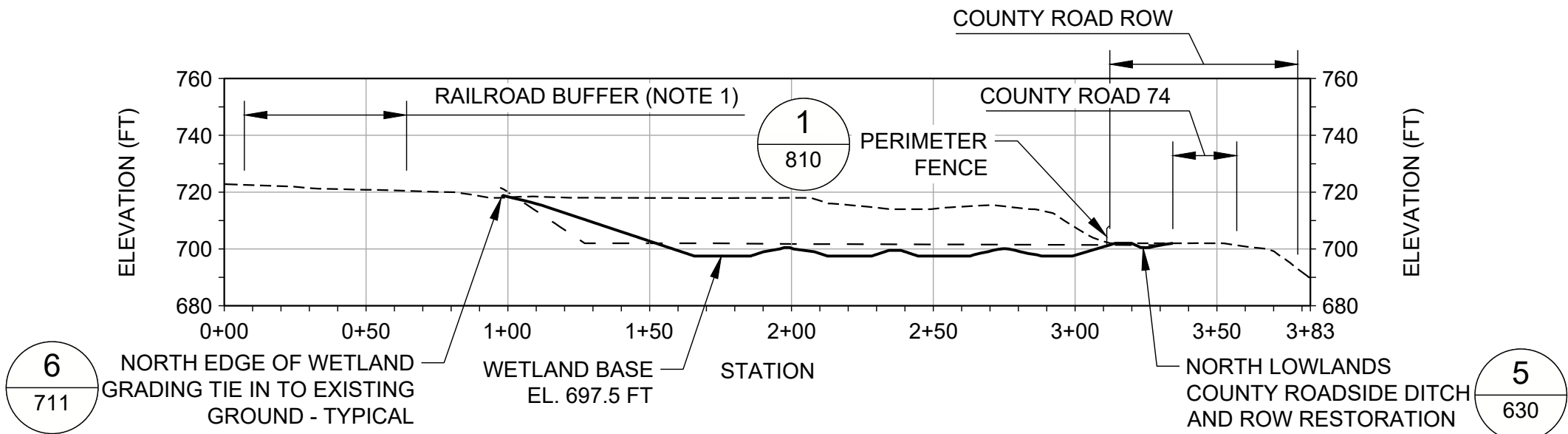
TITLE
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PROJECT NO. 1239330907	PHASE 900	REV. 5	96 of 113	SHEET 605
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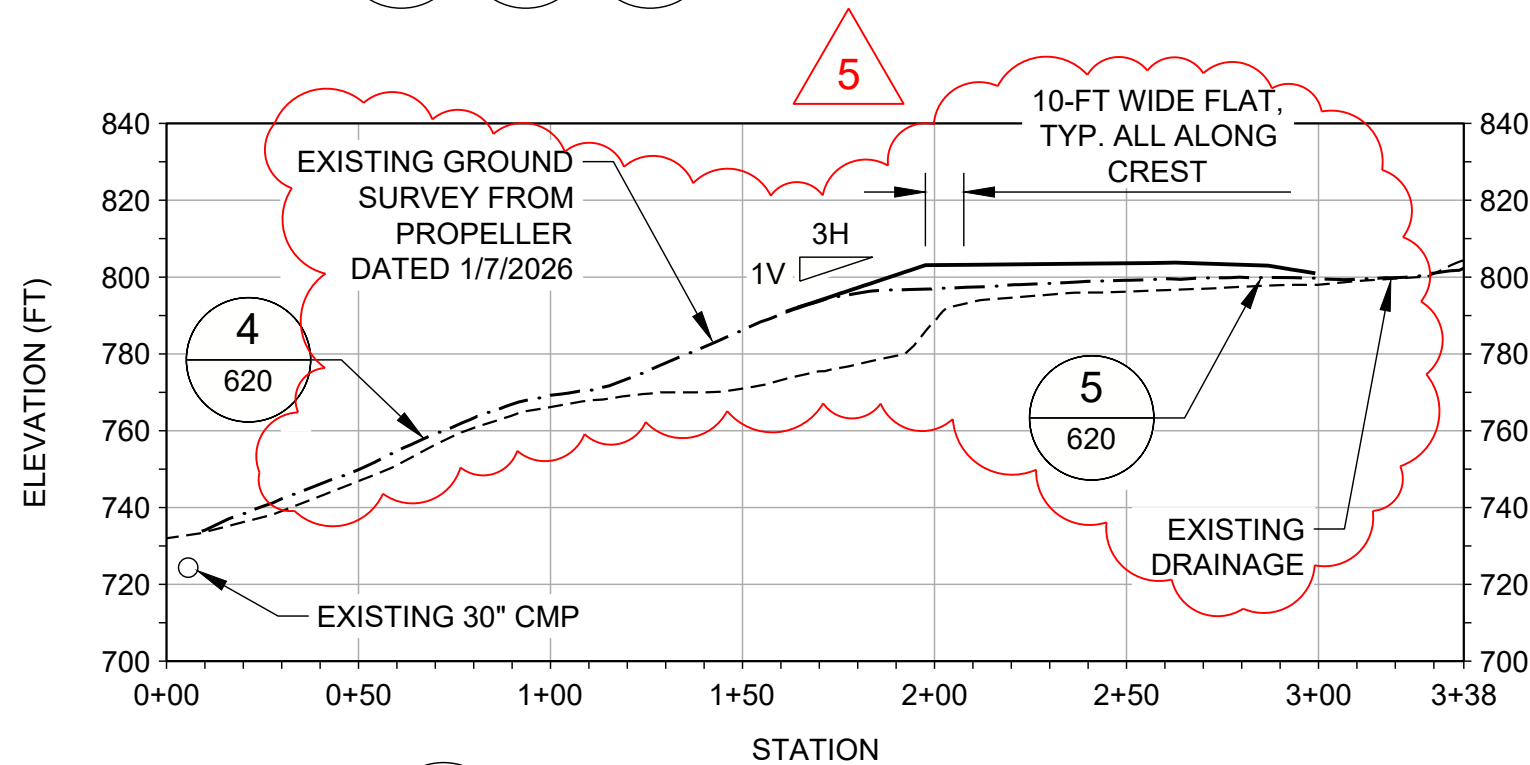
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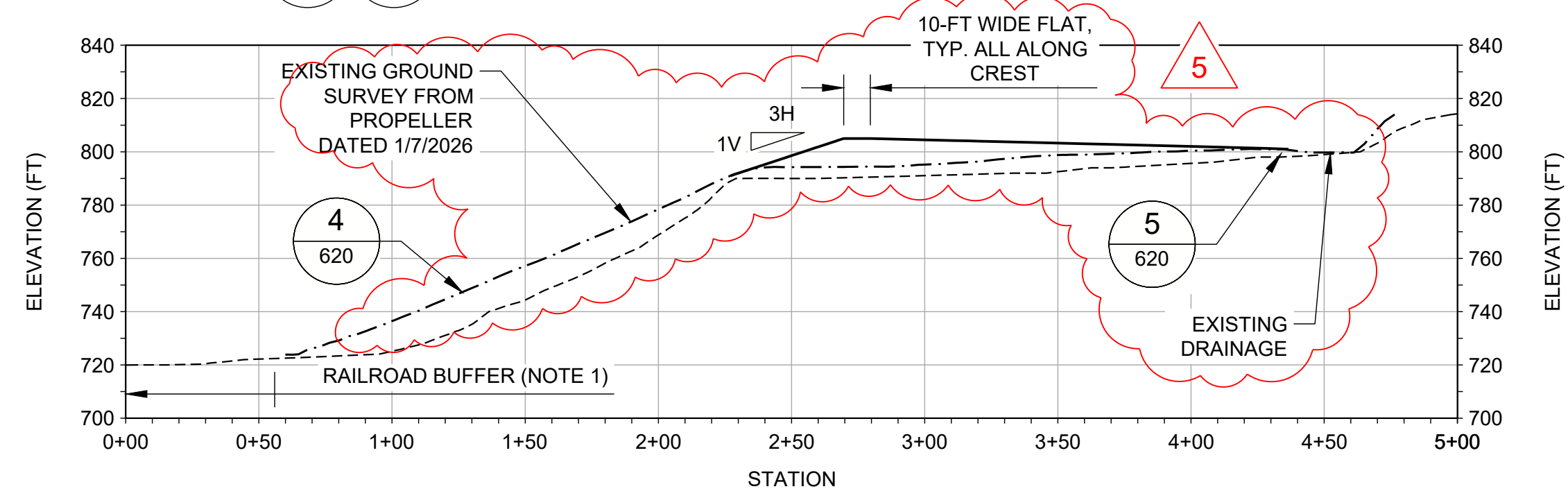
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MM FINAL GRADING NORTH LOWLANDS - SECTION MM



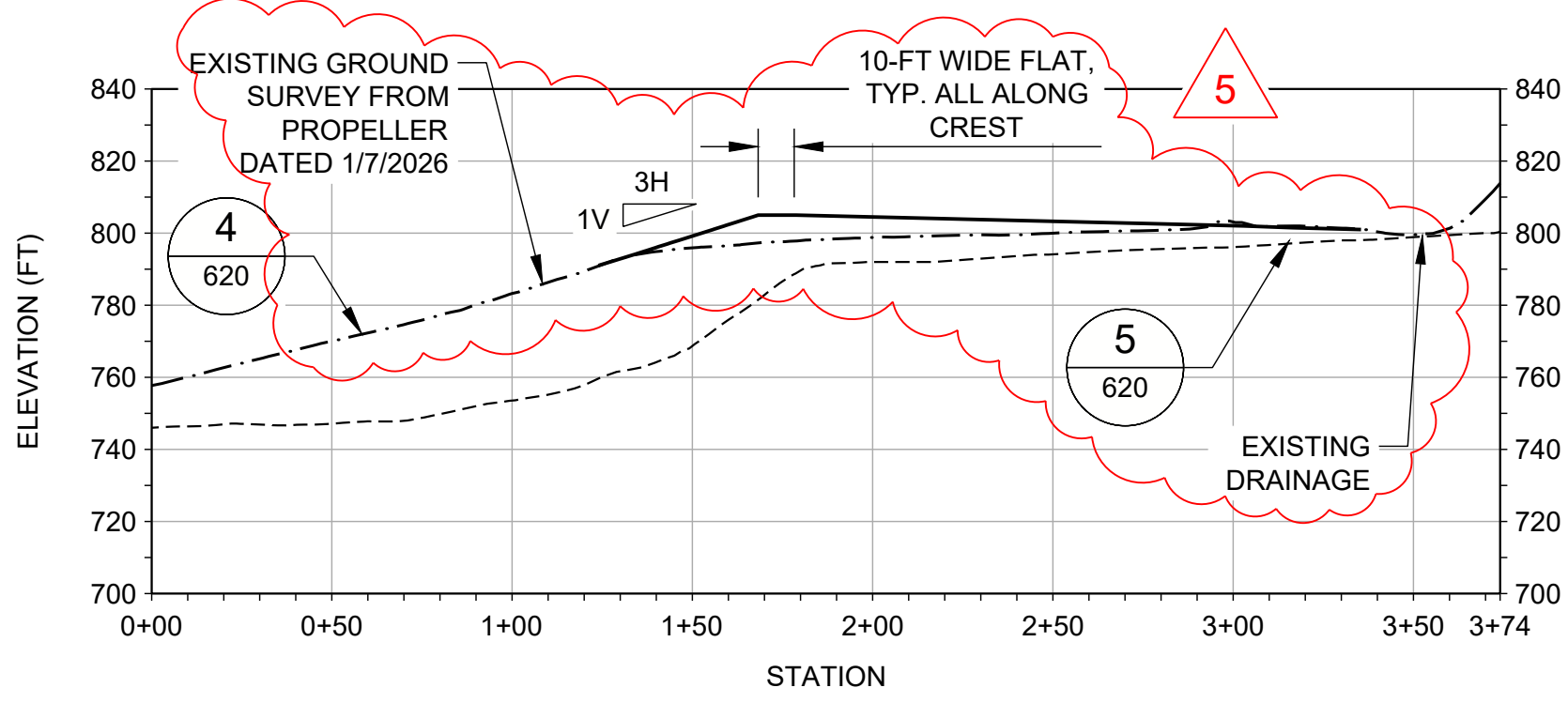
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NN FINAL GRADING NORTH LOWLANDS - SECTION NN



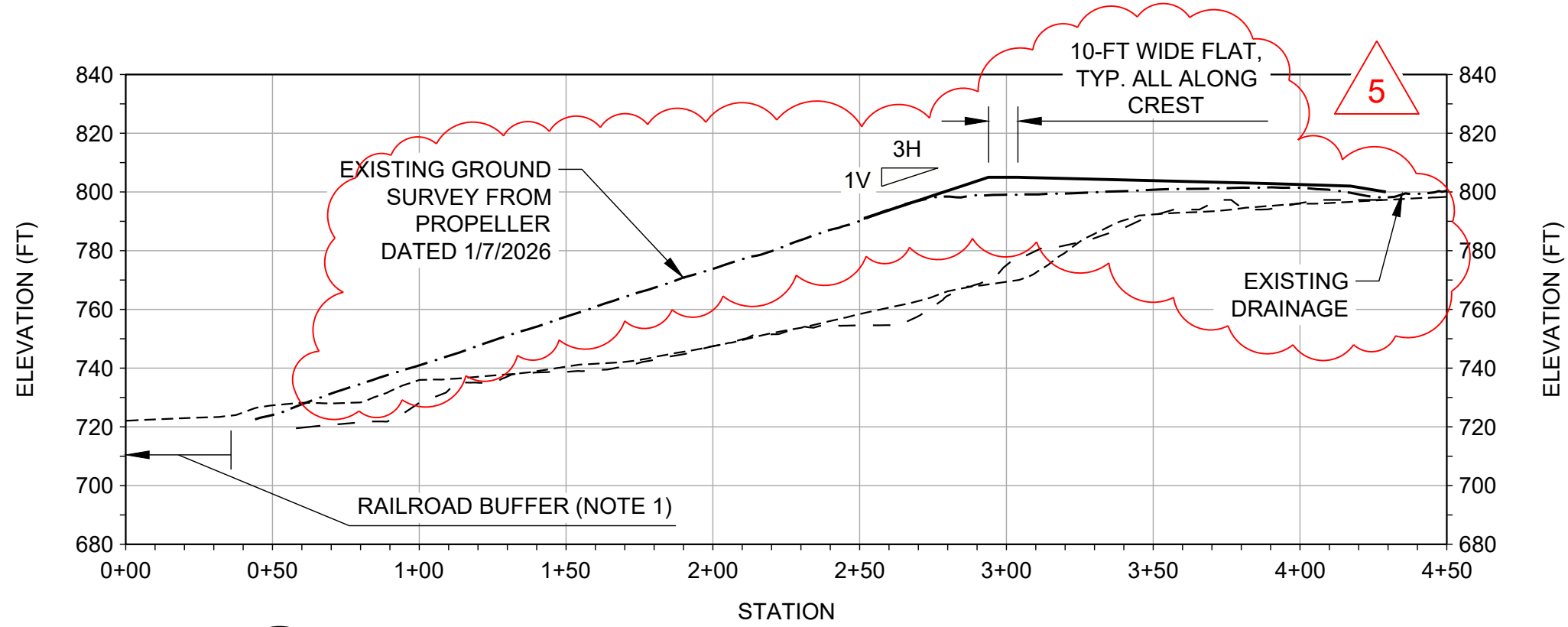
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AG FINAL GRADING OLD DUMP - SECTION AG



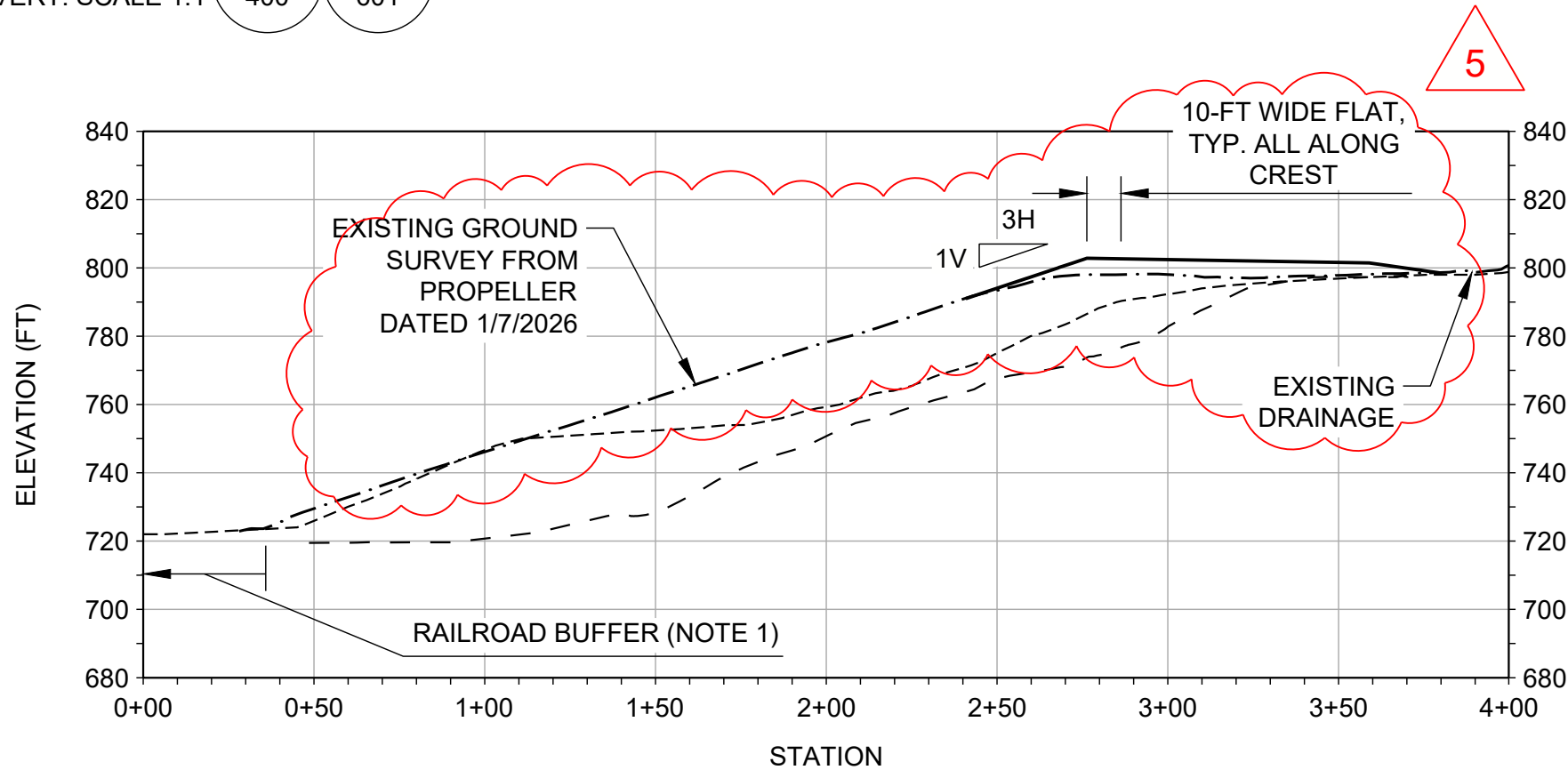
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AH FINAL GRADING OLD DUMP - SECTION AH



SCALE 1" = 50'
VERT. SCALE 1:1
AI FINAL GRADING OLD DUMP - SECTION AI



SCALE 1" = 50'
VERT. SCALE 1:1
AJ FINAL GRADING UPPER RAIL - SECTION AJ



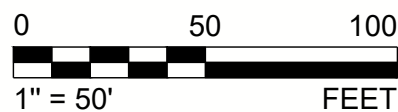
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AK FINAL GRADING UPPER RAIL - SECTION AK

LEGEND

- EXISTING GROUND PROFILE
- - - - - ESTIMATED SLAG REMOVAL SURFACE PROFILE
- PROPOSED FINAL GRADING SURFACE PROFILE

NOTE(S)

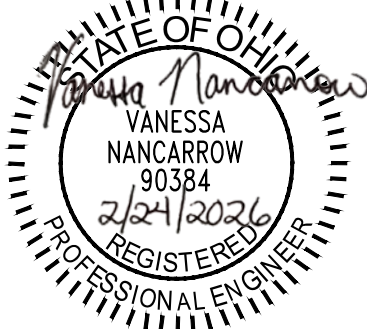
- NO CONSTRUCTION ACTIVITIES SHALL OCCUR WITHIN THE EXTENTS OF RAILROAD BUFFER ZONE. ALL PERSONNEL ARE PROHIBITED FROM ENTERING THE RAILROAD BUFFER ZONE WITHOUT PRIOR APPROVAL.
- TOP SURFACE ABOVE OLD DUMP AND UPPER RAIL AREA TO GRADE TO DRAIN AT 2% MINIMUM TOWARD THE DRAINAGE DITCH AND WETLANDS LOCATED ALONG THE TOE OF THE NATIVE SLOPE ON THE NORTH SIDE.



5	2026-02-23	SOUTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	BRB
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0	2025-03-08	ISSUED FOR CONSTRUCTION	VMN	REDMOND	FSS	RSA

REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED
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SEAL



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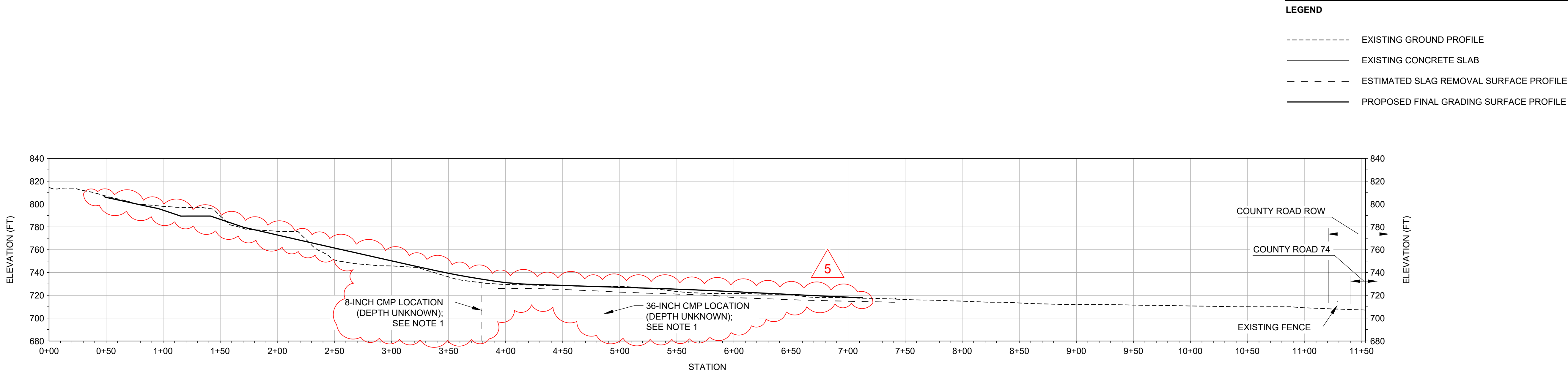
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www.golder.com

PROJECT
FORMER SATRALLOY SITE
SLAG REMOVAL INTERIM ACTION
JEFFERSON COUNTY, OHIO

TITLE
FINAL GRADING AND RESTORATION SECTIONS - NORTH LOWLANDS

PROJECT NO. 1239330907	PHASE 900	REV. 5	98 of 113	SHEET 610
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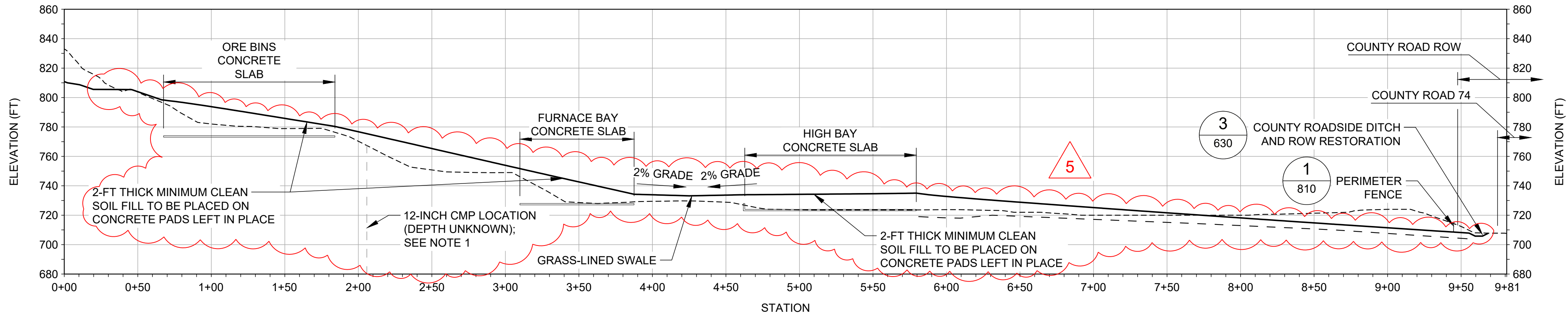
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SCALE 1" = 50'
VERT. SCALE 1:1

RR FINAL GRADING PLANT AREA - SECTION RR

403 602



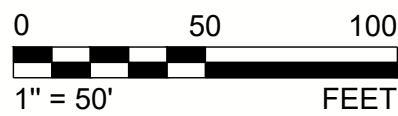
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SS FINAL GRADING PLANT AREA - SECTION SS

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NOTE(S)

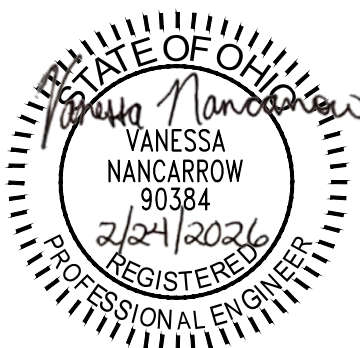
1. PROTECT EXISTING CMP PIPING TO THE EXTENT PRACTICABLE TO MAINTAIN SUBSURFACE DRAINAGE NETWORK DISCHARGING TO THE WETLAND LOCATED ADJACENT TO COUNTY ROAD 74.



5	2026-02-23	SOUTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	BRB
4	2025-10-29	NORTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	RSA
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1	2025-04-25	NORTH LOWLANDS DRAINAGE REVISION	VMN	REDMOND	FSS	RSA
0	2025-03-08	ISSUED FOR CONSTRUCTION	VMN	REDMOND	FSS	RSA

REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED
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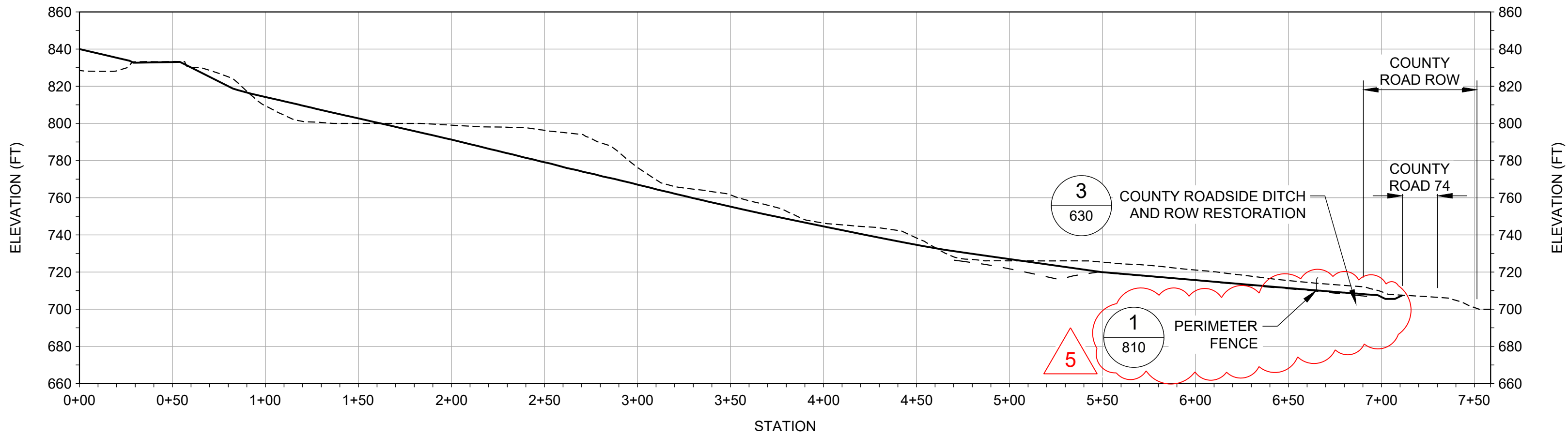
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PROJECT
FORMER SATRALLOY SITE
SLAG REMOVAL INTERIM ACTION
JEFFERSON COUNTY, OHIO

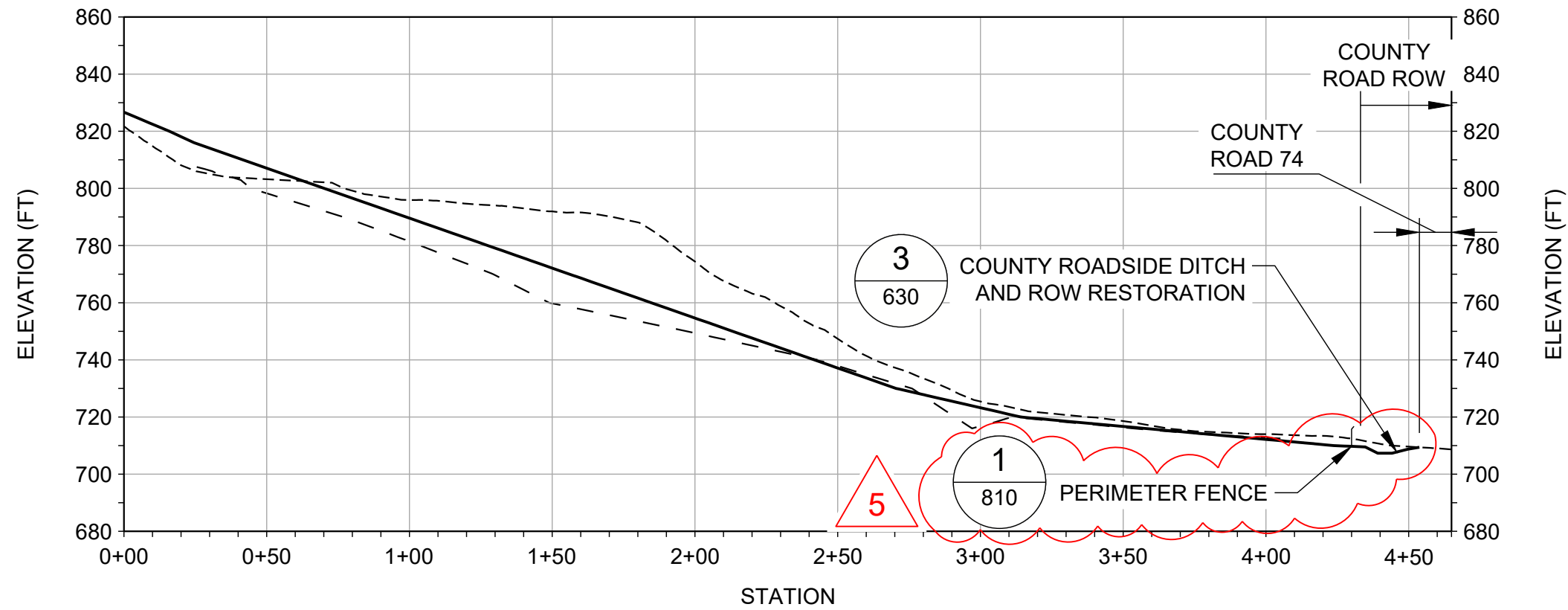
TITLE
**FINAL GRADING AND RESTORATION SECTIONS - PLANT AREA
(2 OF 2)**

PROJECT NO. 1239330907	PHASE 900	REV. 5	100 of 113	SHEET 612
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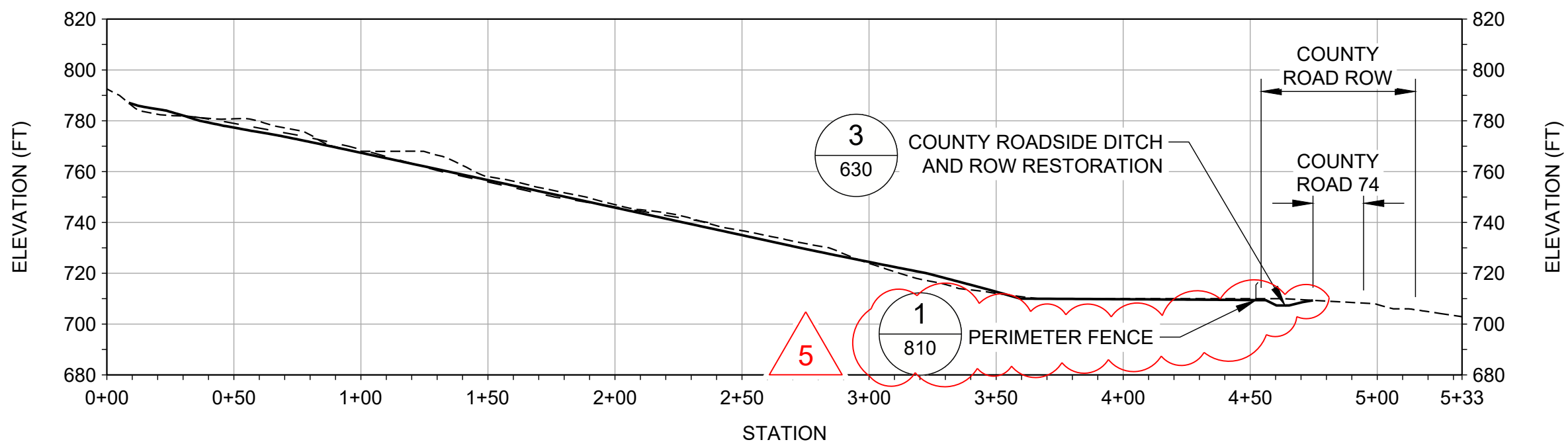
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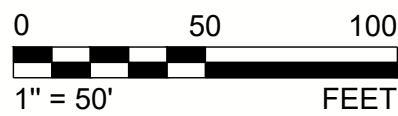
SCALE 1" = 50' **TT** FINAL GRADING SOUTH LOWLANDS - SECTION TT
VERT. SCALE 1:1 404 405 603



SCALE 1" = 50' **UU** FINAL GRADING SOUTH LOWLANDS - SECTION UU
VERT. SCALE 1:1 405 406 603



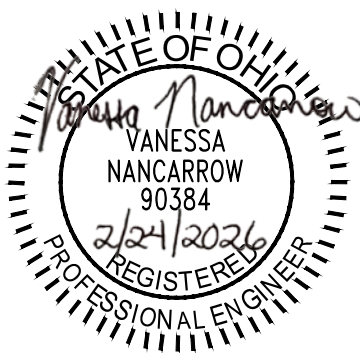
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VERT. SCALE 1:1 406 603



5	2026-02-23	SOUTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	BRB
4	2025-10-29	NORTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	RSA
3	2025-09-22	MINE AREA STOCKPILE EXPANSION IN NE CORNER	VMN	REDMOND	FSS	RSA
2	2025-07-25	RFI-27: UPPER RAIL FINAL GRADING PLAN	VMN	REDMOND	FSS	RSA
1	2025-04-25	NORTH LOWLANDS DRAINAGE REVISION	VMN	REDMOND	FSS	RSA
0	2025-03-08	ISSUED FOR CONSTRUCTION	VMN	REDMOND	FSS	RSA

REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED
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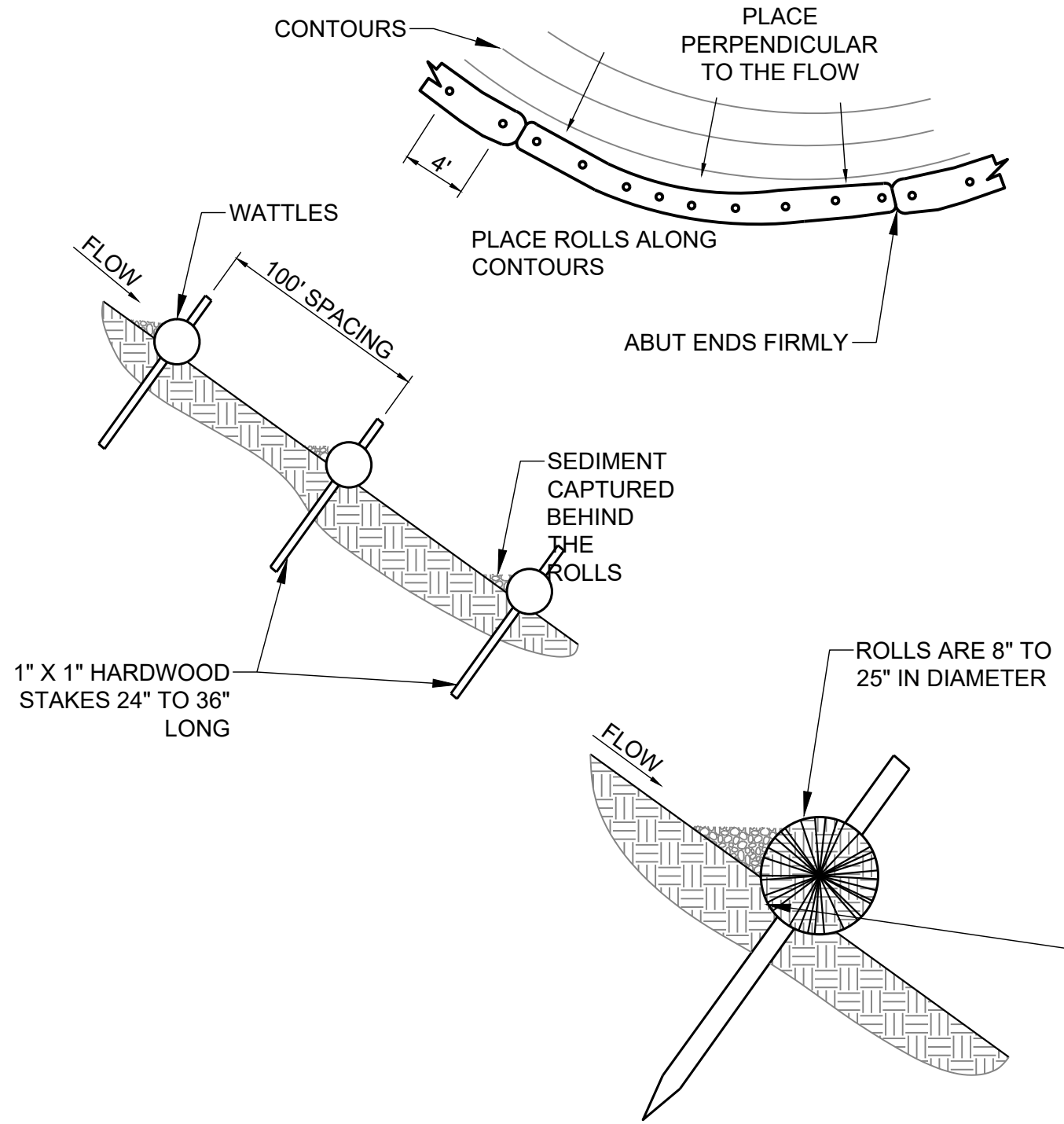
PROJECT
FORMER SATRALLOY SITE
SLAG REMOVAL INTERIM ACTION
JEFFERSON COUNTY, OHIO

TITLE
FINAL GRADING AND RESTORATION SECTIONS - SOUTH LOWLANDS

PROJECT NO. 1239330907	PHASE 900	REV. 5	101 of 113	SHEET 613
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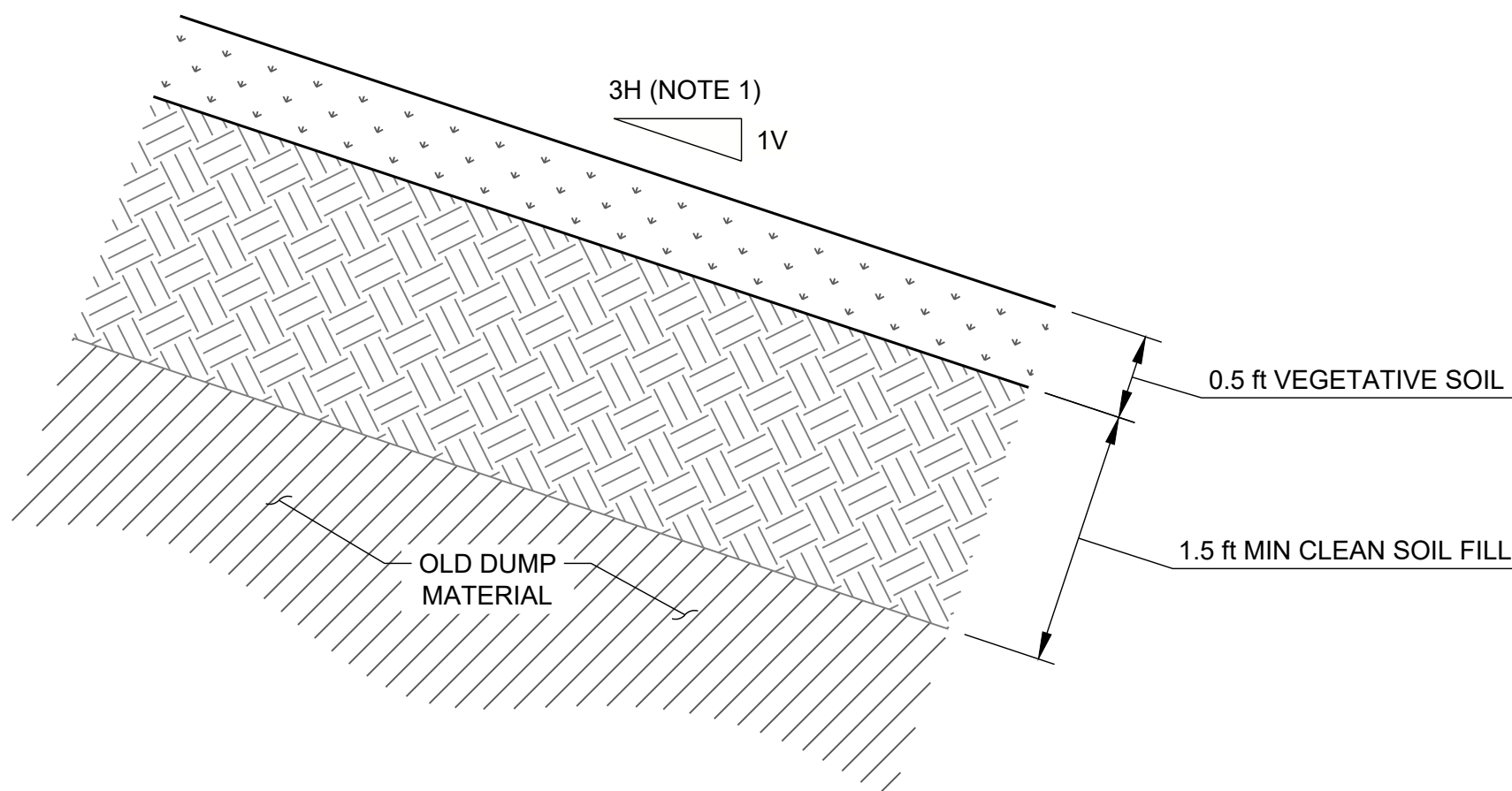
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D

Path: \\ccorp.phdwan.net\USCentralData\USK_C300\geomatics\Fresno\Former_Satralloy\02_400_SlagRemoval\02_PROD\CD\DWG - 1 File Name: 21483000_02_400_119.dwg | Last Edited By: user701209 Date: 2025-09-22 Time: 8:57:11 AM | Printed By: USK0701483 Date: 2025-09-22 Time: 10:59:33 PM



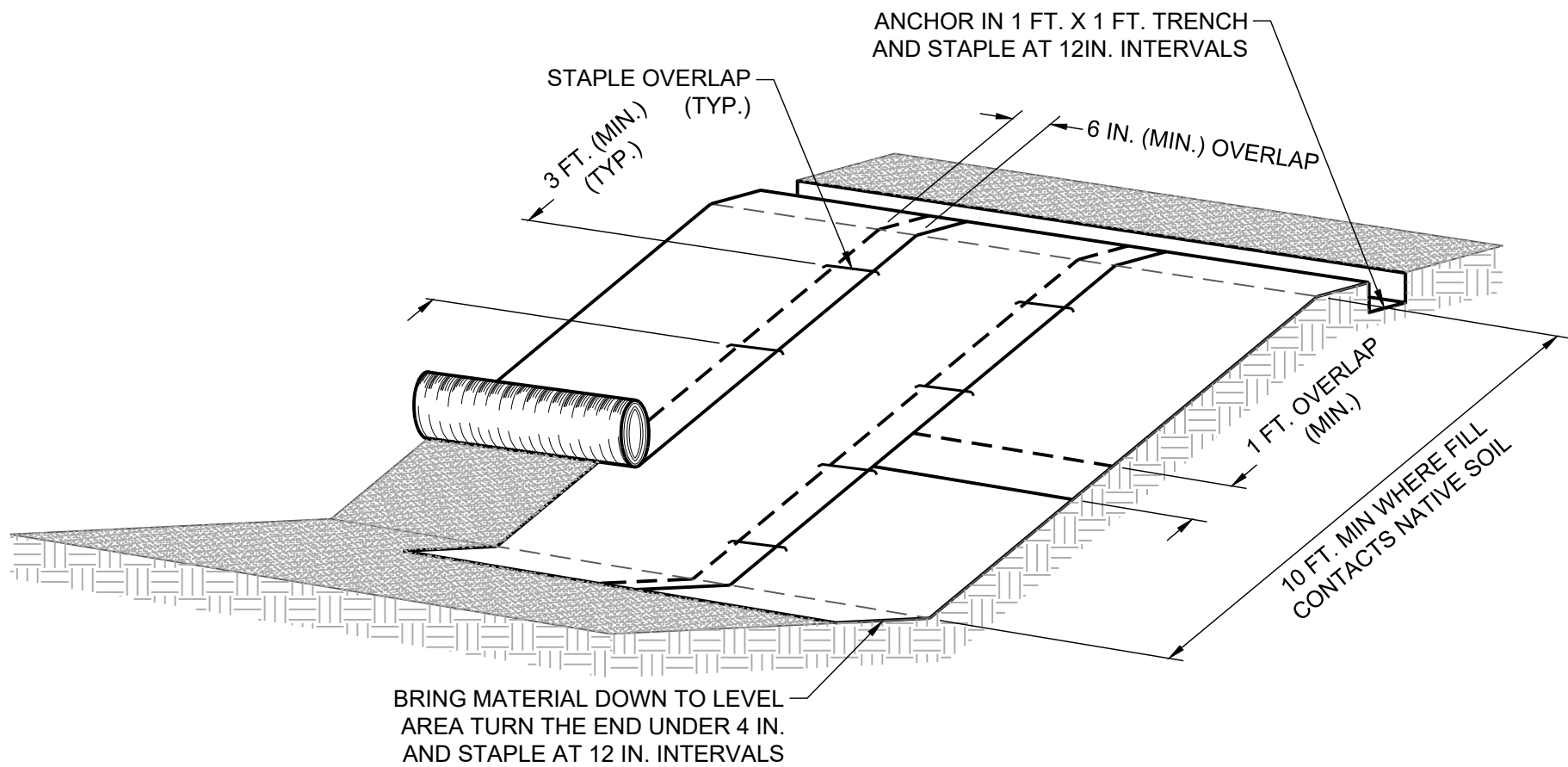
- NOTES:
1. INSTALL STRAW WATTLES ALONG CONTOURS AT 100-FOOT INTERVALS ON ALL SLOPES GREATER THAN 4H:1V THAT ARE OTHERWISE UNBROKEN BY DRAINAGE DITCHES, BERMS, ROADWAYS, OR SIMILAR FEATURES.
 2. STRAW WATTLE PLACEMENT INTERVAL TO BE MODIFIED IN THE FIELD, AS NECESSARY OR AS DIRECTED.

SCALE N.T.S. 1 STRAW WATTLES



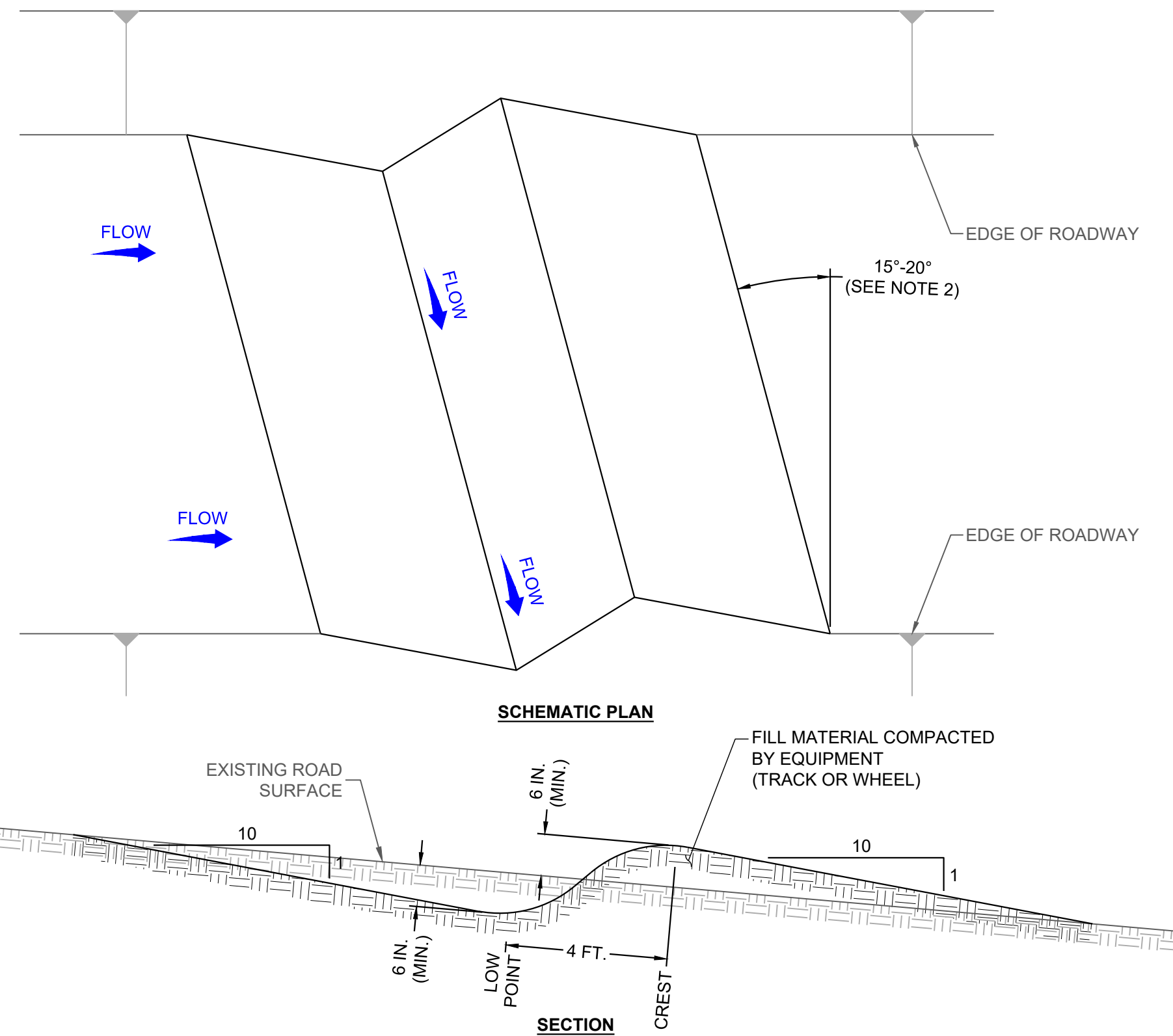
- NOTES:
1. FILL SLOPES OVER OLD DUMP AREA TO BE GRADED MAXIMUM 3H:1V WHERE POSSIBLE, AND NO STEEPER THAN 2H:1V.

SCALE 1" = 1' 4 OLD DUMP COVER - TYPICAL SECTION



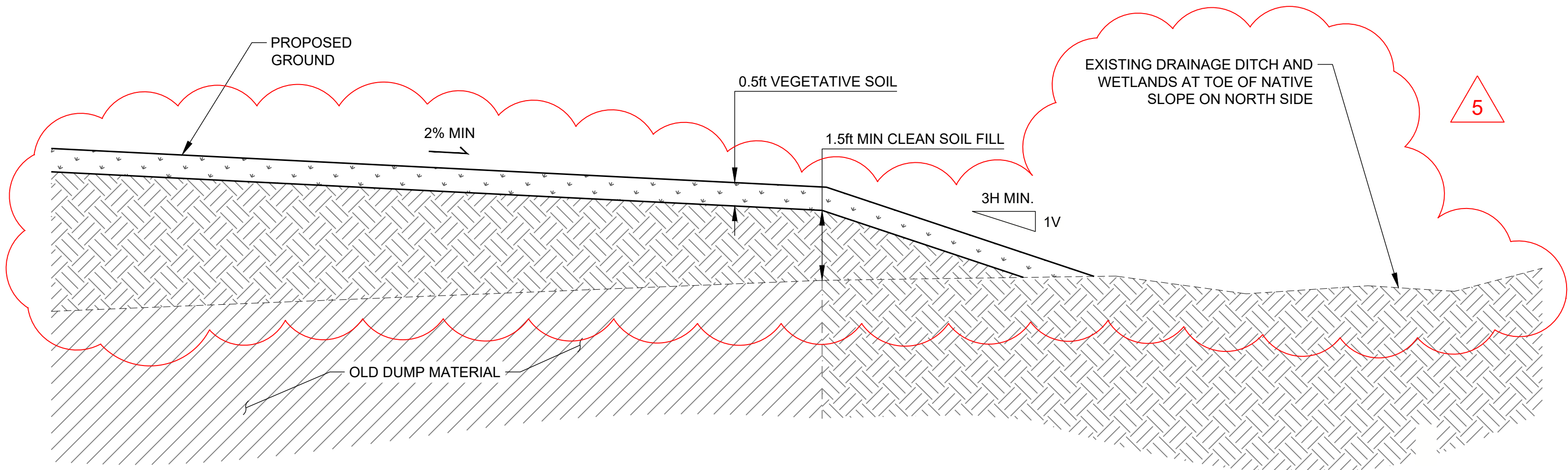
- NOTES:
1. SLOPE SURFACE SHALL BE SMOOTH BEFORE PLACEMENT TO PROVIDE PROPER SOIL CONTACT. DO NOT COMPACT SUBGRADE.
 2. FERTILIZE AND SEED BEFORE INSTALLATION.
 3. PLACE MATS WITH SEAMS RUNNING UP AND DOWN, NOT ACROSS THE SLOPE. FOR SLOPES LESS THAN 4H:1V, MATS MAY BE PLACED ACROSS THE SLOPE.
 4. DO NOT STRETCH MATS TIGHT; ALLOW THE MATS TO MOLD TO ANY IRREGULARITIES.
 5. STAPLING PATTERN PER MANUFACTURER'S RECOMMENDATIONS. IF STAPLING DIFFICULT, SAND BAGS CAN BE USED AS AN ALTERNATIVE. CONTRACTOR CAN PROPOSE BAG SIZE DESIGN AND PLACEMENT TO THE CONSTRUCTION MANAGER FOR APPROVAL.
 6. IF THERE IS A BERM AT THE TOP OF THE SLOPE, ANCHOR UPSLOPE OF THE BERM.

SCALE N.T.S. 2 EROSION CONTROL MAT

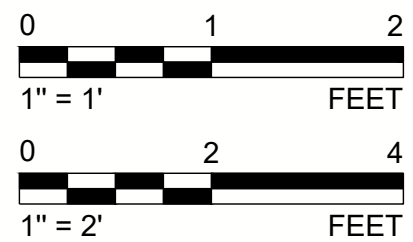


- NOTES:
1. CONSTRUCT WATER BARS AT INTERVALS OF 200 FEET ALONG ACCESS ROAD, OR AS DIRECTED BY THE CONSTRUCTION MANAGER.
 2. ANGLE WATER BAR 15°-20° AS SHOWN TO DRAIN OVER EDGE OF SLOPE.

SCALE N.T.S. 3 WATER BAR



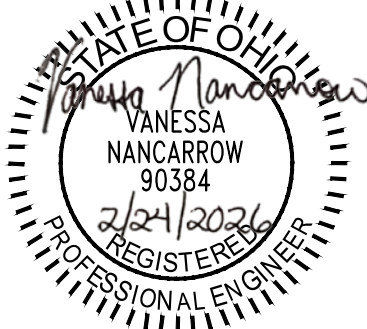
SCALE 1" = 2' 5 OLD DUMP COVER TERMINATION - TYPICAL SECTION



5	2026-02-23	SOUTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	BRB
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3	2025-09-22	MINE AREA STOCKPILE EXPANSION IN NE CORNER	VMN	REDMOND	FSS	RSA
2	2025-07-25	RFI-27: UPPER RAIL FINAL GRADING PLAN	VMN	REDMOND	FSS	RSA
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0	2025-03-08	ISSUED FOR CONSTRUCTION	VMN	REDMOND	FSS	RSA

REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED
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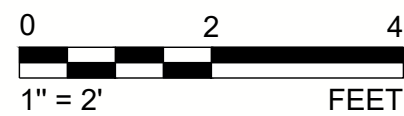
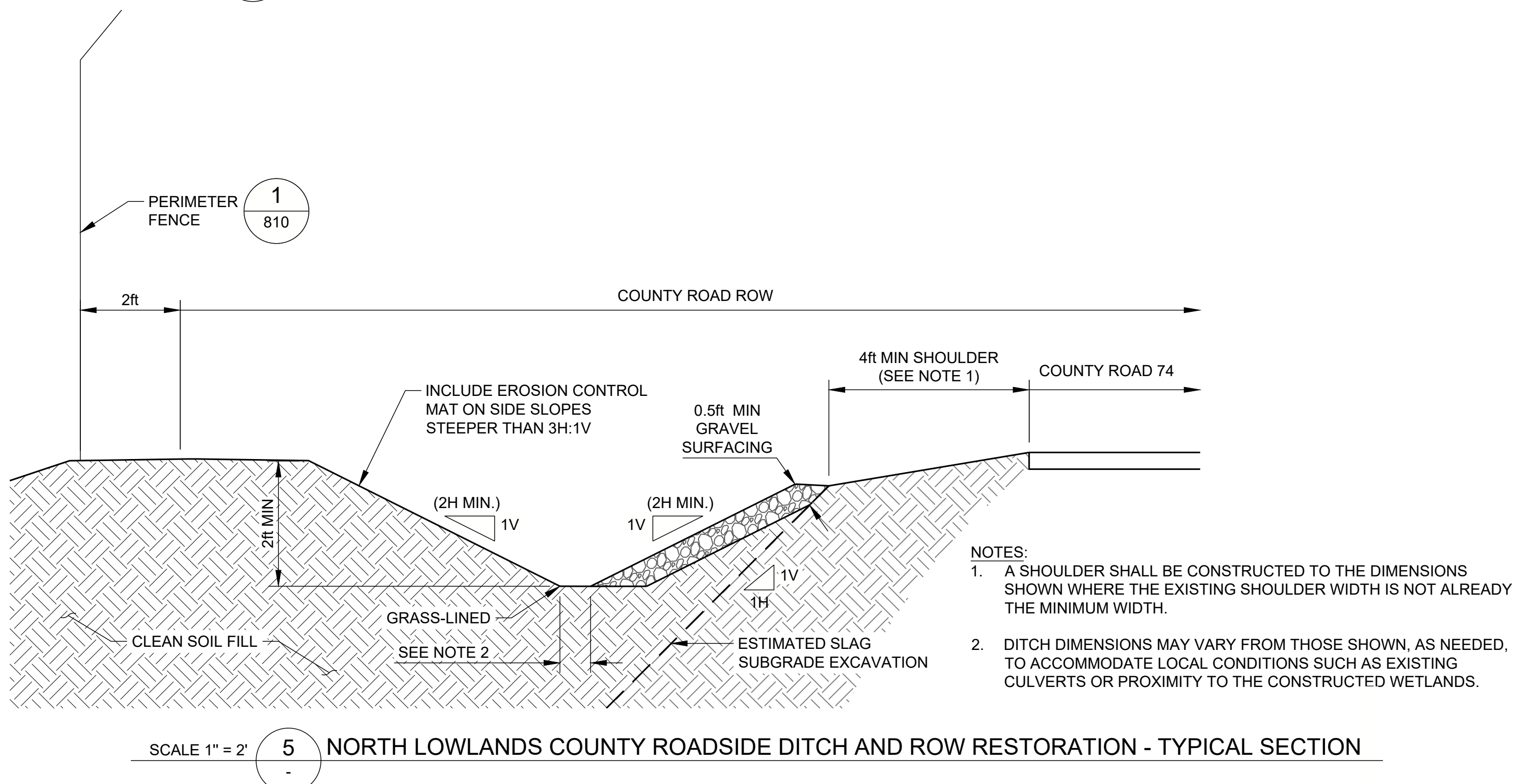
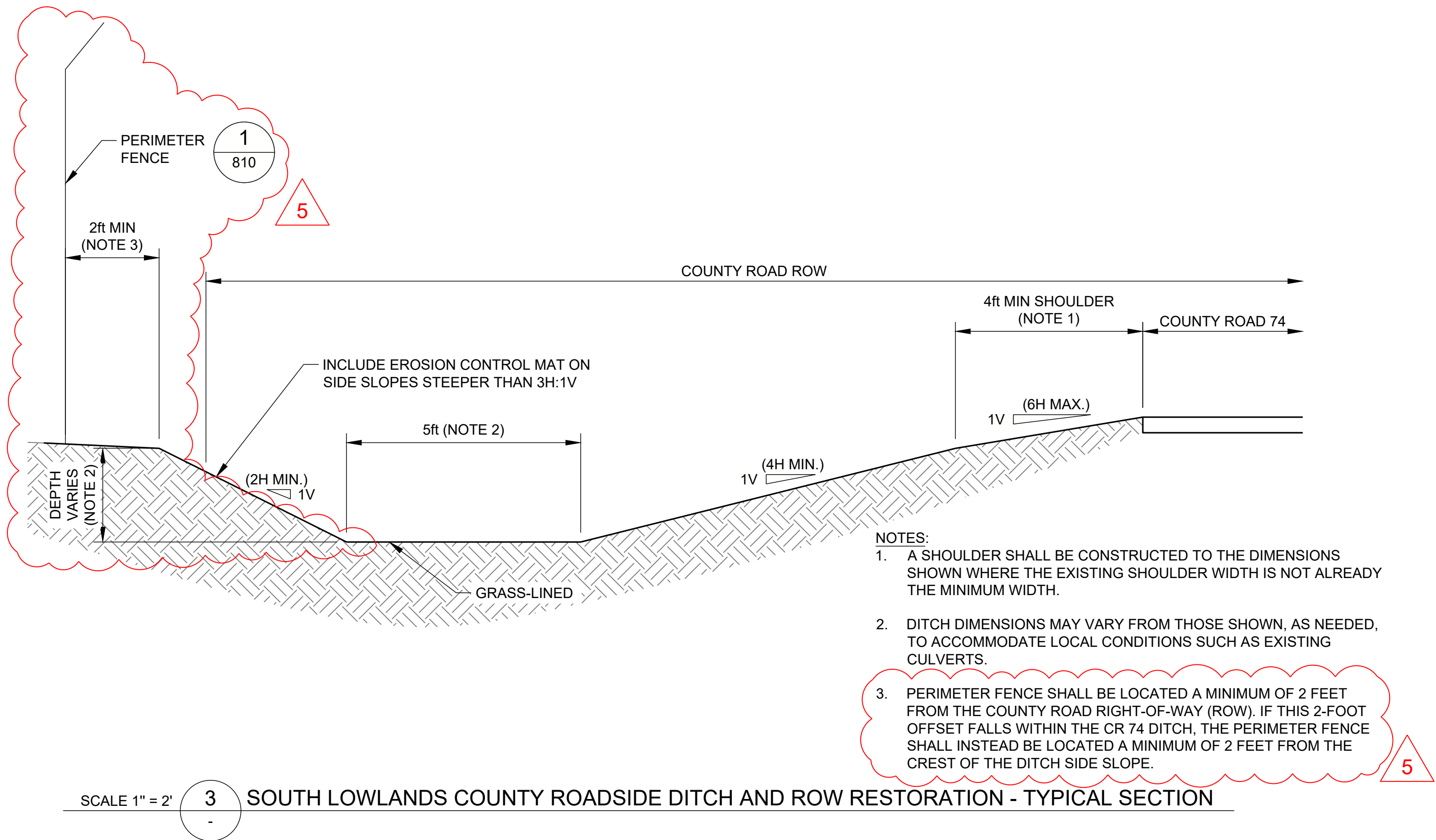
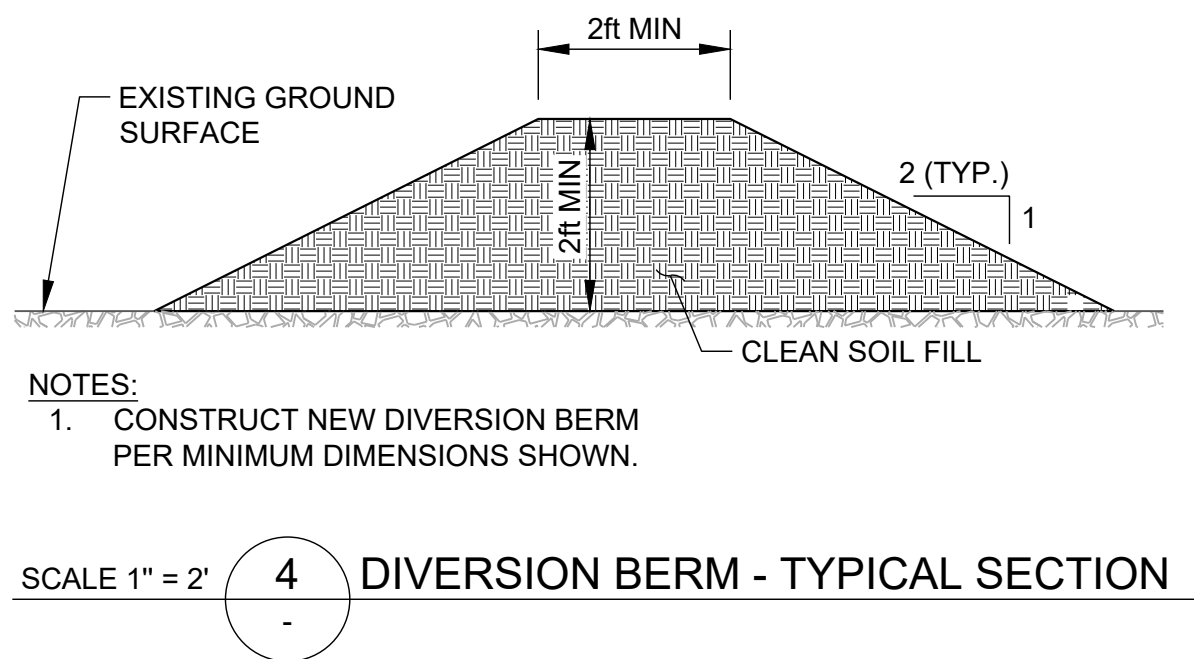
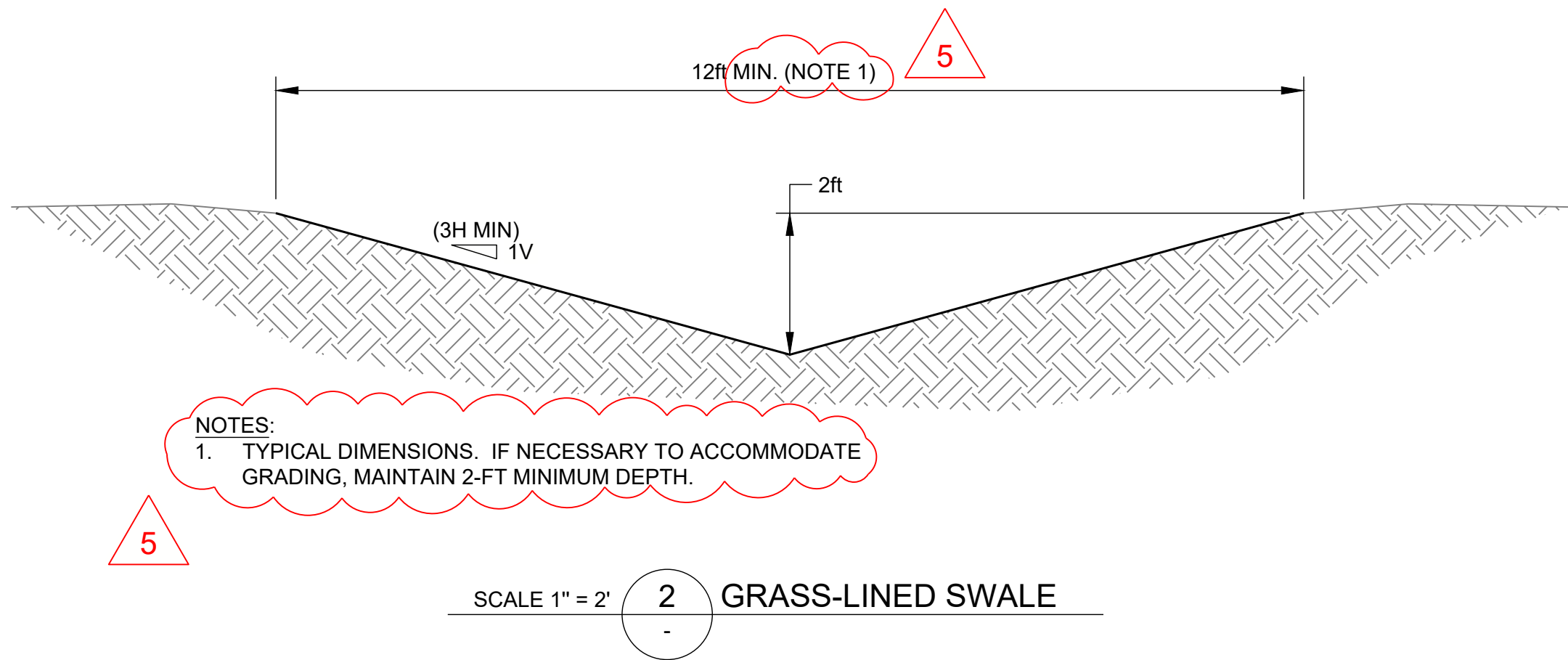
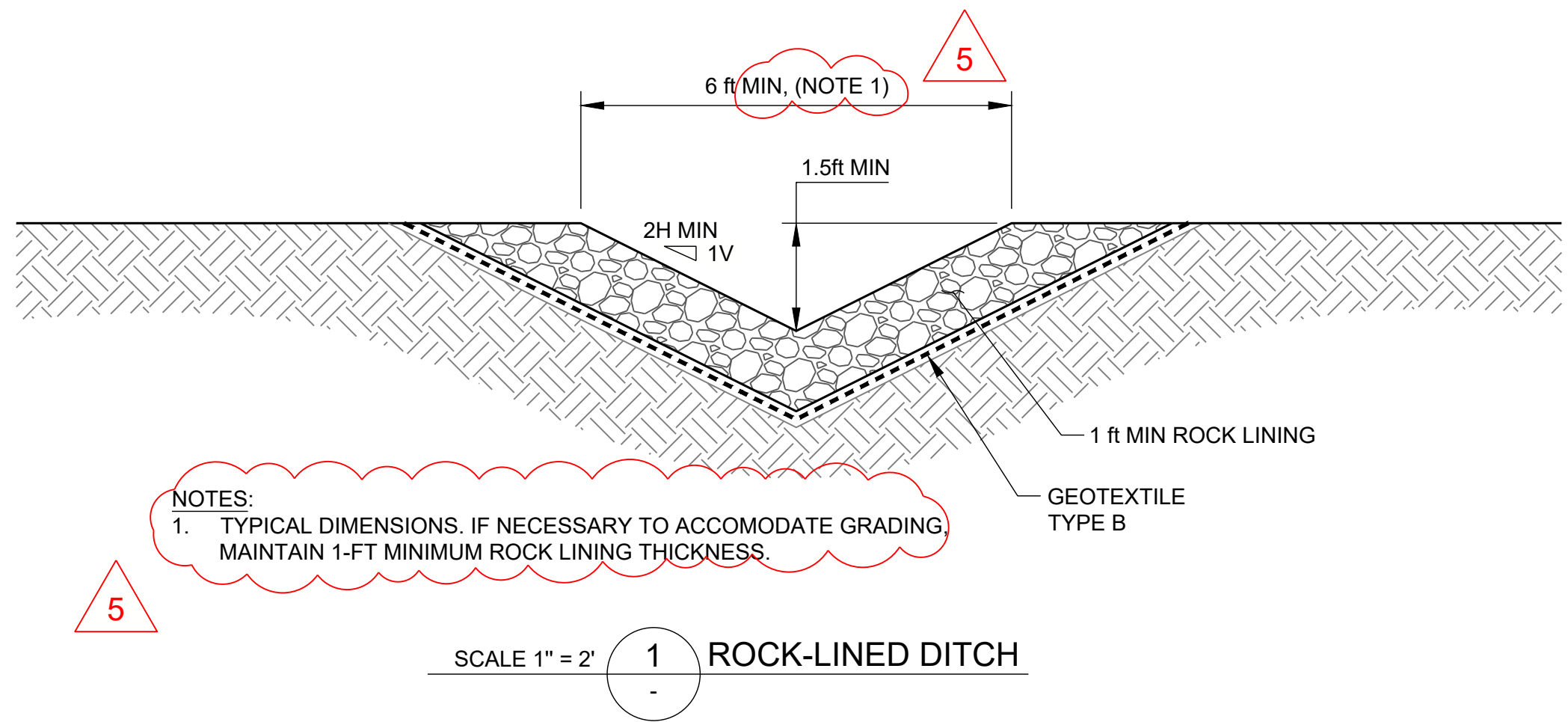
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PROJECT
FORMER SATRALLOY SITE
SLAG REMOVAL INTERIM ACTION
JEFFERSON COUNTY, OHIO

TITLE
RESTORATION EROSION AND SEDIMENT CONTROL DETAILS

PROJECT NO. 1239330907	PHASE 900	REV. 5	104 of 113	SHEET 620
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5	2026-02-23	SOUTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	BRB
4	2025-10-29	NORTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	RSA
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REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED

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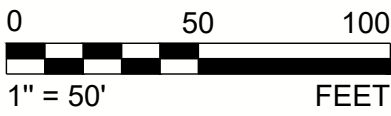
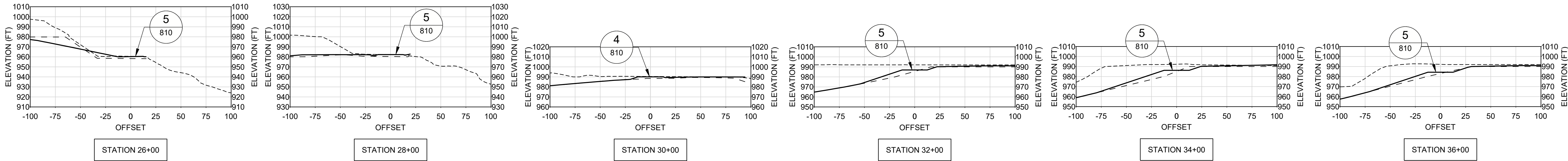
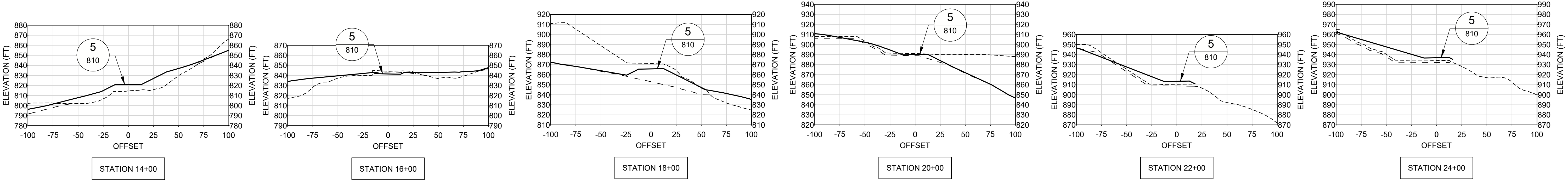
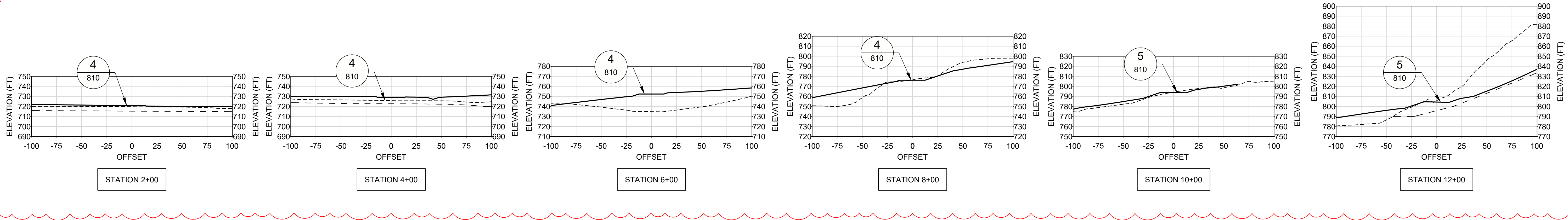
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PROJECT
FORMER SATRALLOY SITE
SLAG REMOVAL INTERIM ACTION
JEFFERSON COUNTY, OHIO

TITLE
SURFACE WATER MANAGEMENT DETAILS

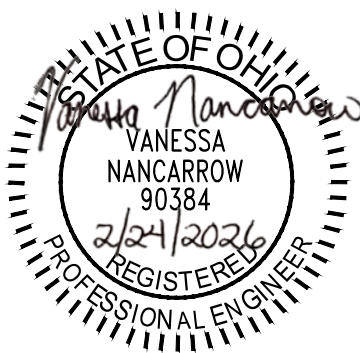
PROJECT NO. 1239330907	PHASE 900	REV. 5	105 of 113	SHEET 630
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5	2026-02-23	SOUTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	BRB
4	2025-10-29	NORTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	RSA
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REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED

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PROJECT
FORMER SATRALLOY SITE
SLAG REMOVAL INTERIM ACTION
JEFFERSON COUNTY, OHIO

TITLE
MAIN ACCESS ROAD SECTIONS

PROJECT NO. 1239330907	PHASE 900	REV. 5	110 of 113	SHEET 802
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