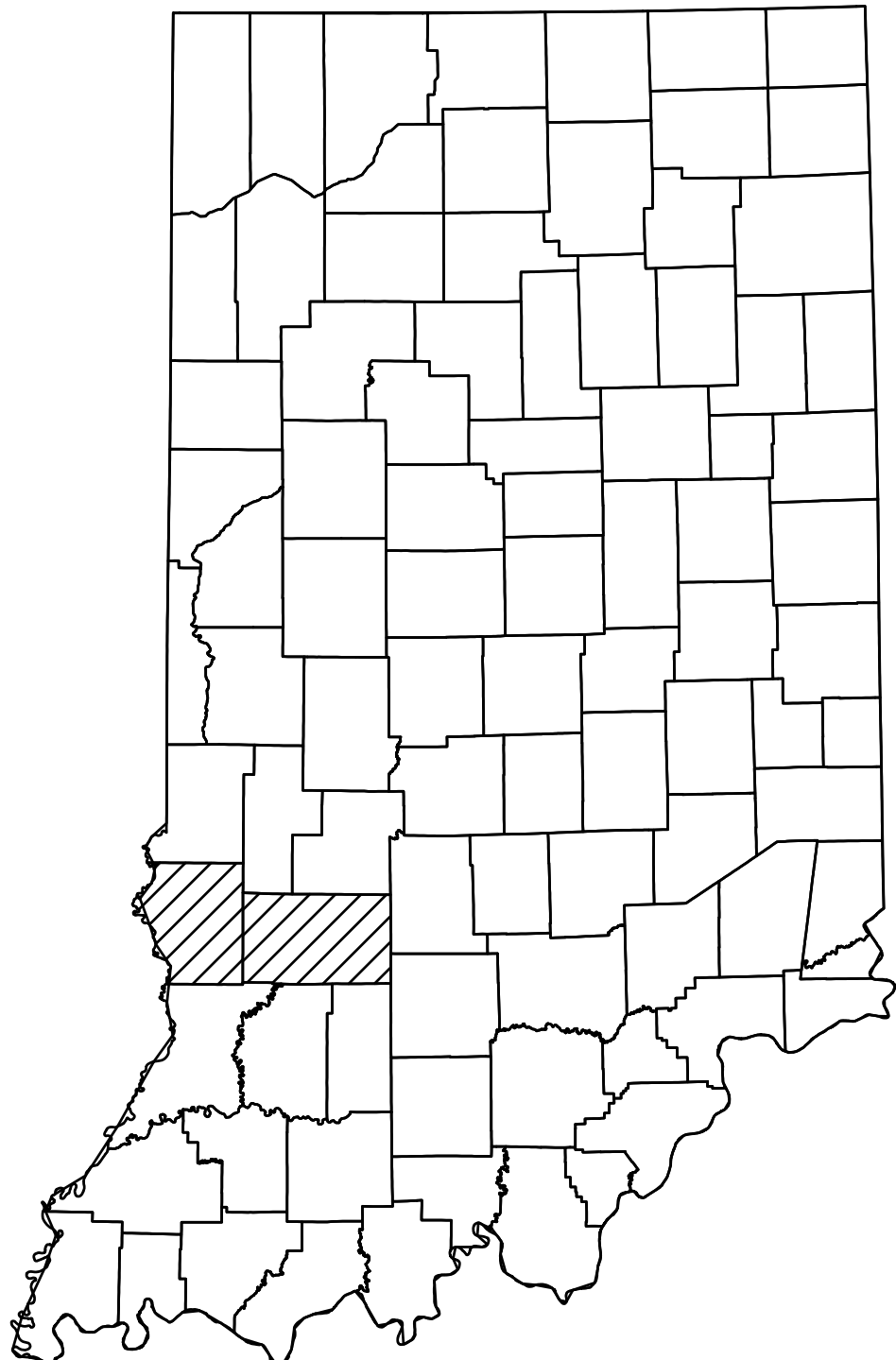


SITE NAME	
SITE NO.	CONTRACT NO.
131	DEL2415208216/E008-321
GREENE COUNTY	
	

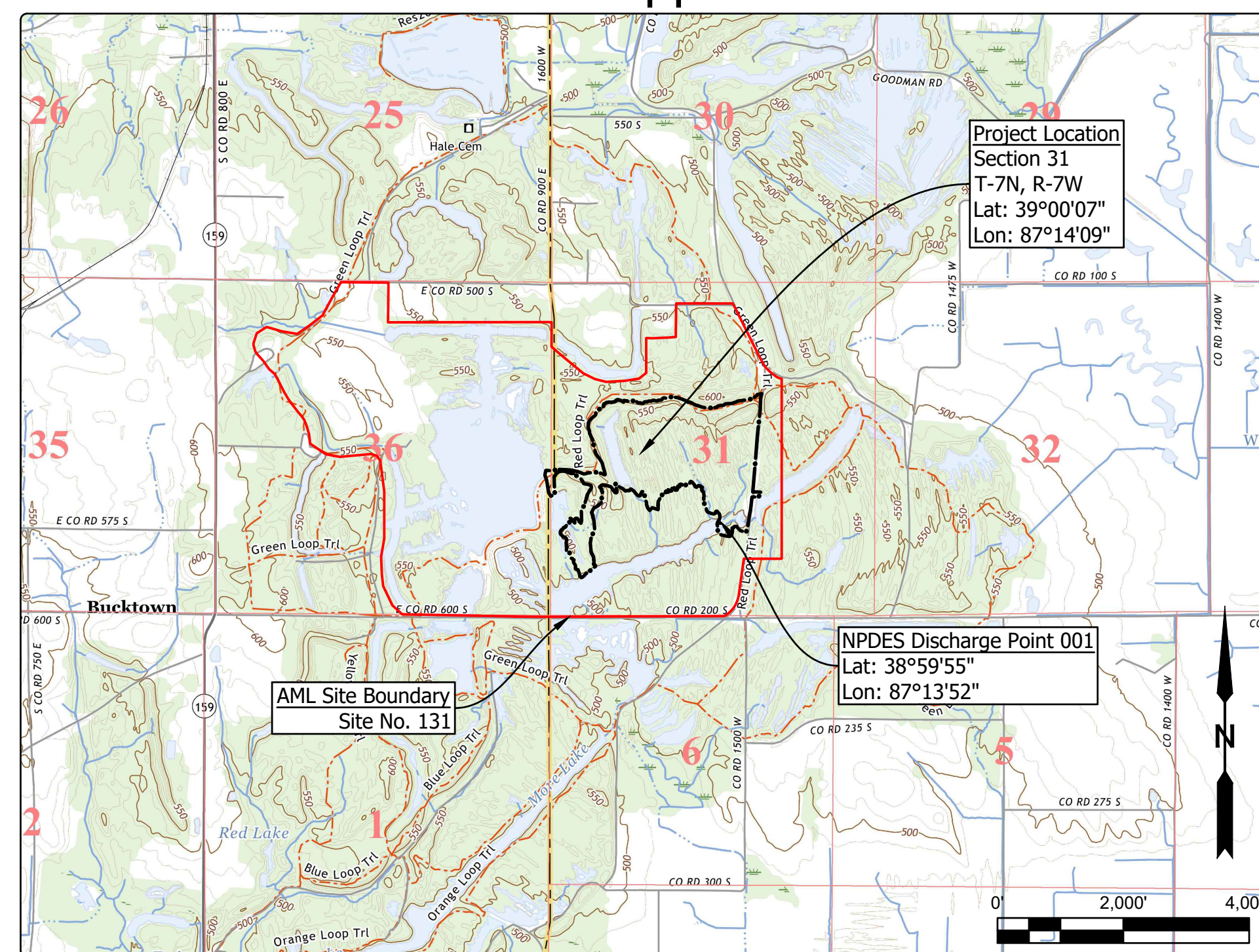
STATE OF INDIANA
INDIANA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF RECLAMATION




ABANDONED COAL MINE
RESTORATION

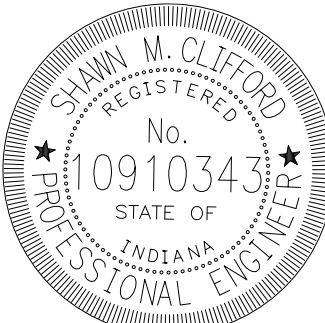
ALMOND LAKE HIGHWALL
SITE 131
CONTRACT DEL2415208216/E008-321
GREENE & SULLIVAN COUNTY

The work consists of backfilling 690 feet of dangerous highwall, controlling acid mine drainage, water replacement, drainage improvements, revegetation, improving site access, and enhancing wildlife and recreation opportunities.

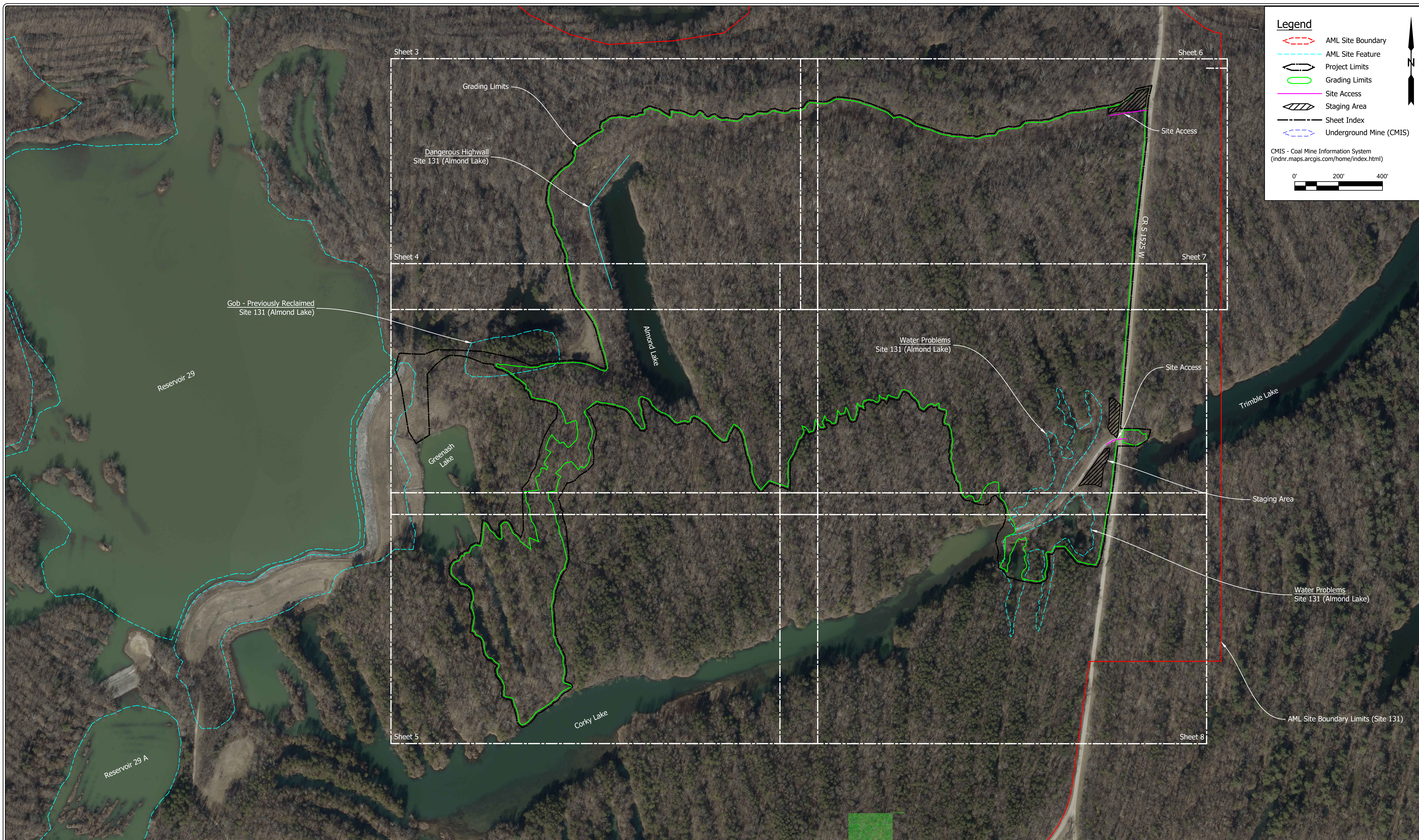


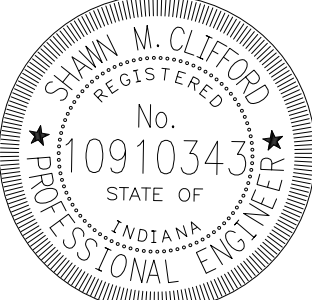
Project Location Map
LINTON & SANDBORN US TOPO (USGS, 2022)

GENERAL NOTES	
2024 AML Standard Specifications to be used with these plans.	
An NPDES discharge permit is required for this project.	
Plans developed from aerial topographic mapping survey from 2018 Statewide LiDAR collection in NAD 83, Indiana State Plane West, Feet.	
Loose fill shall be placed in the fill areas of the tree planting mix. Loose fill shall consist of a single 4 ft. lift and one pass of a low ground pressure dozer unless otherwise approved by the Engineer.	
INDEX	
SHEET NO.	SHEET TITLE
1	TITLE, INDEX, & LOCATION MAP
2	SITE MAP
3-8	SITE PLANS
9	SECTIONS
10	REVEGETATION PLAN
11	DETAILS
UTILITIES	
The facilities of the following utilities exist near the project site but are not expected to be affected by the proposed construction. If questions arise, the utility may be contacted using the information below.	
ELECTRIC: Duke Energy 100 S. Mill Creek Rd. Noblesville, IN 46062 (317) 776-5320	TELECOM: Smithville Telephone Co., Inc. 1600 W. Temperance Street Ellettsville, IN 47429 (812) 935-2423
WATER/SANITARY: Linton Municipal Utilities 86 South Main Street Linton, IN 47441 (812) 847-4971	AT&T Indiana 5858 N. College Ave. Indianapolis, IN 46220 (317) 352-4007
	

	PLANS PREPARED BY: INDIANA DEPARTMENT OF NATURAL RESOURCES DIVISION OF RECLAMATION (812) 665-2207 CERTIFIED BY: <i>Shawn M. Clifford</i> PHONE NUMBER 7/11/2025 APPROVED FOR LETTING: <i>Kit Tappin</i> DATE 7/11/2025 DIVISION OF RECLAMATION
---	---

SCALE AS NOTED	SHEET 1 OF 11
PROJECT E008-321	SITE 131



	RECOMMENDED FOR APPROVAL: <i>SM Clifford</i> 7/11/2025 DATE	DATE MADE 03/06/2024	SITE MAP STATE OF INDIANA DEPARTMENT OF NATURAL RESOURCES DIVISION OF RECLAMATION	SCALE 1" = 200'	SHEET 2 OF 11
	DESIGNED BY S.M.C.	DRAWN BY S.M.C.		DATE REVISED 7/11/2025 12:41:07 PM	PROJECT E008-321

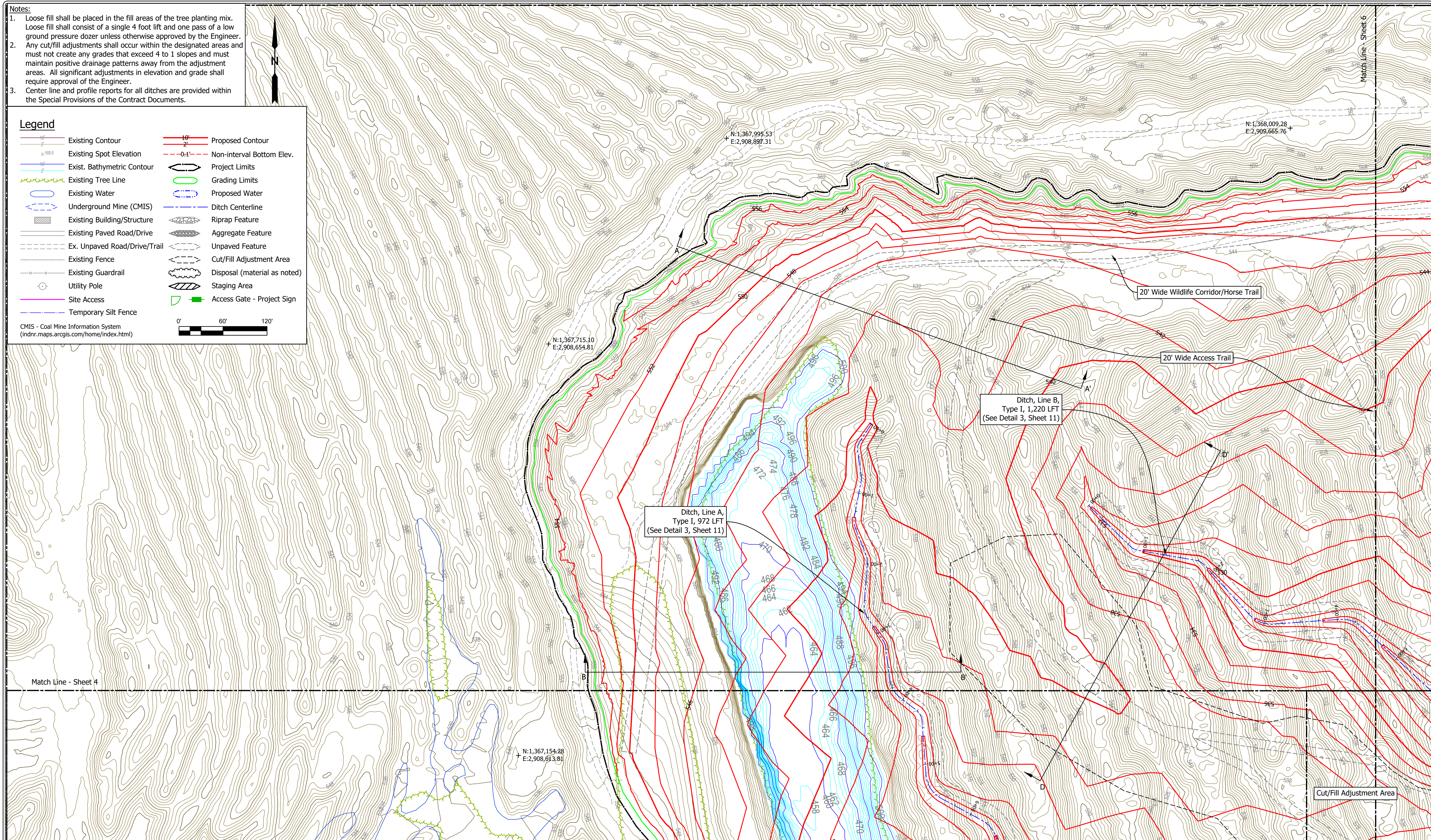
- Notes:
- Loose fill shall be placed in the fill areas of the tree planting mix. Loose fill shall consist of a single 4 foot lift and one pass of a low ground pressure dozer unless otherwise approved by the Engineer.
 - Any cut/fill adjustments shall occur within the designated areas and must not create any grades that exceed 4 to 1 slopes and must maintain positive drainage patterns away from the adjustment areas. All significant adjustments in elevation and grade shall require approval of the Engineer.
 - Center line and profile reports for all ditches are provided within the Special Provisions of the Contract Documents.

Legend

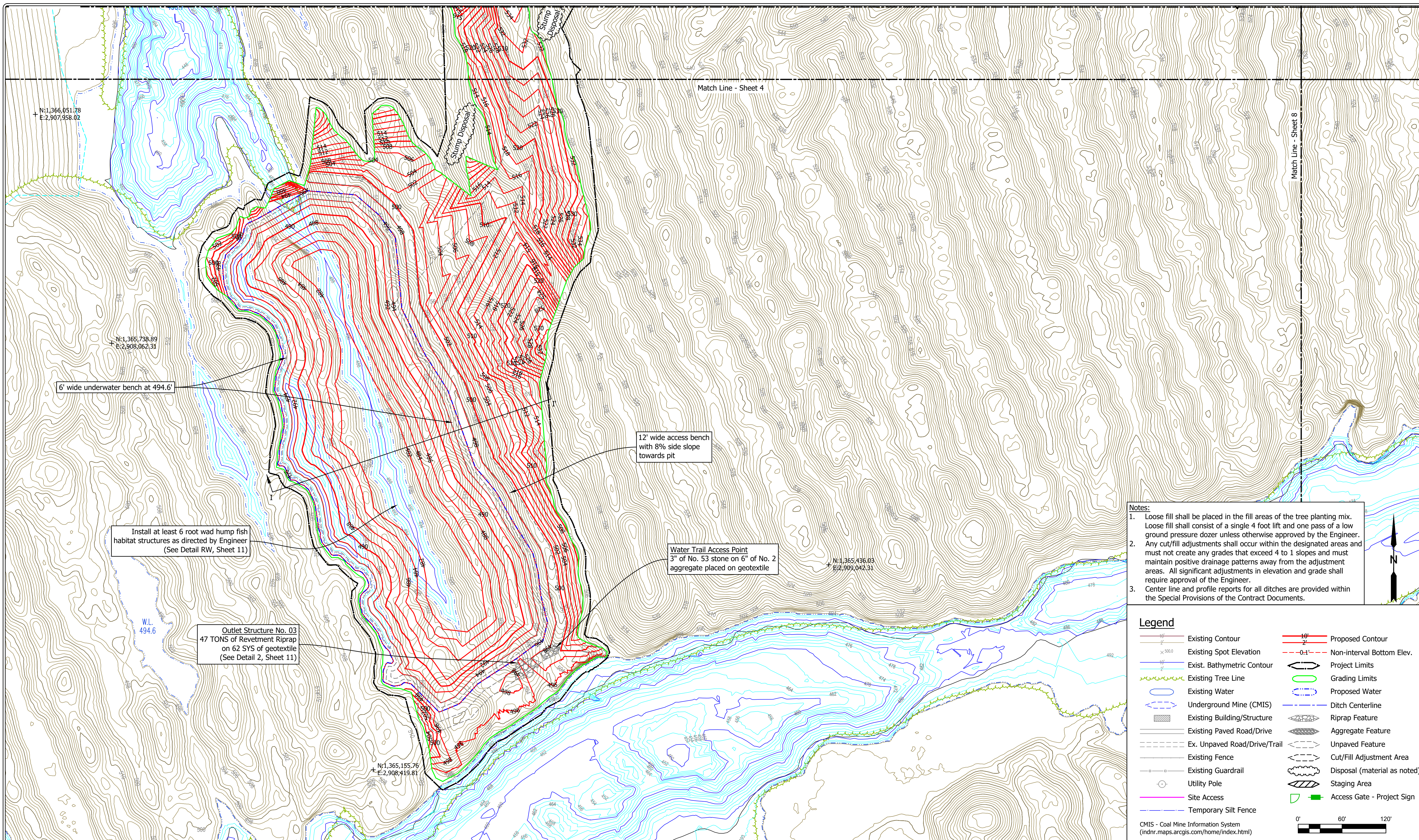
	Existing Contour		Proposed Contour
	Existing Spot Elevation		Non-interval Bottom Elev.
	Exist. Bathymetric Contour		Project Limits
	Existing Tree Line		Grading Limits
	Existing Water		Proposed Water
	Underground Mine (CMIS)		Ditch Centerline
	Existing Building/Structure		Riprap Feature
	Existing Paved Road/Drive		Aggregate Feature
	Ex. Unpaved Road/Drive/Trail		Unpaved Feature
	Existing Fence		Cut/Fill Adjustment Area
	Existing Guardrail		Disposal (material as noted)
	Utility Pole		Staging Area
	Site Access		Access Gate - Project Sign
	Temporary Silt Fence		

CMIS - Coal Mine Information System
(indnr.maps.arcgis.com/home/index.html)

0' 60' 120'



	RECOMMENDED FOR APPROVAL: <i>SMC</i> 7/11/2025 DATE	DATE MADE 03/06/2024	SITE PLAN	SCALE 1" = 60'	SHEET 3 OF 11
	DESIGNED BY S.M.C.	DRAWN BY S.M.C.	DATE REVISED 7/11/2025 12:41:07 PM	STATE OF INDIANA DEPARTMENT OF NATURAL RESOURCES DIVISION OF RECLAMATION	PROJECT E008-321



- Notes:**
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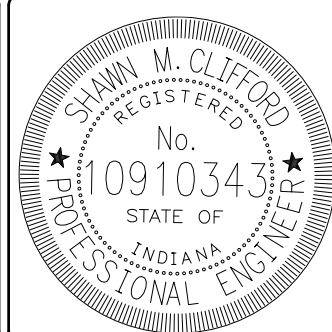
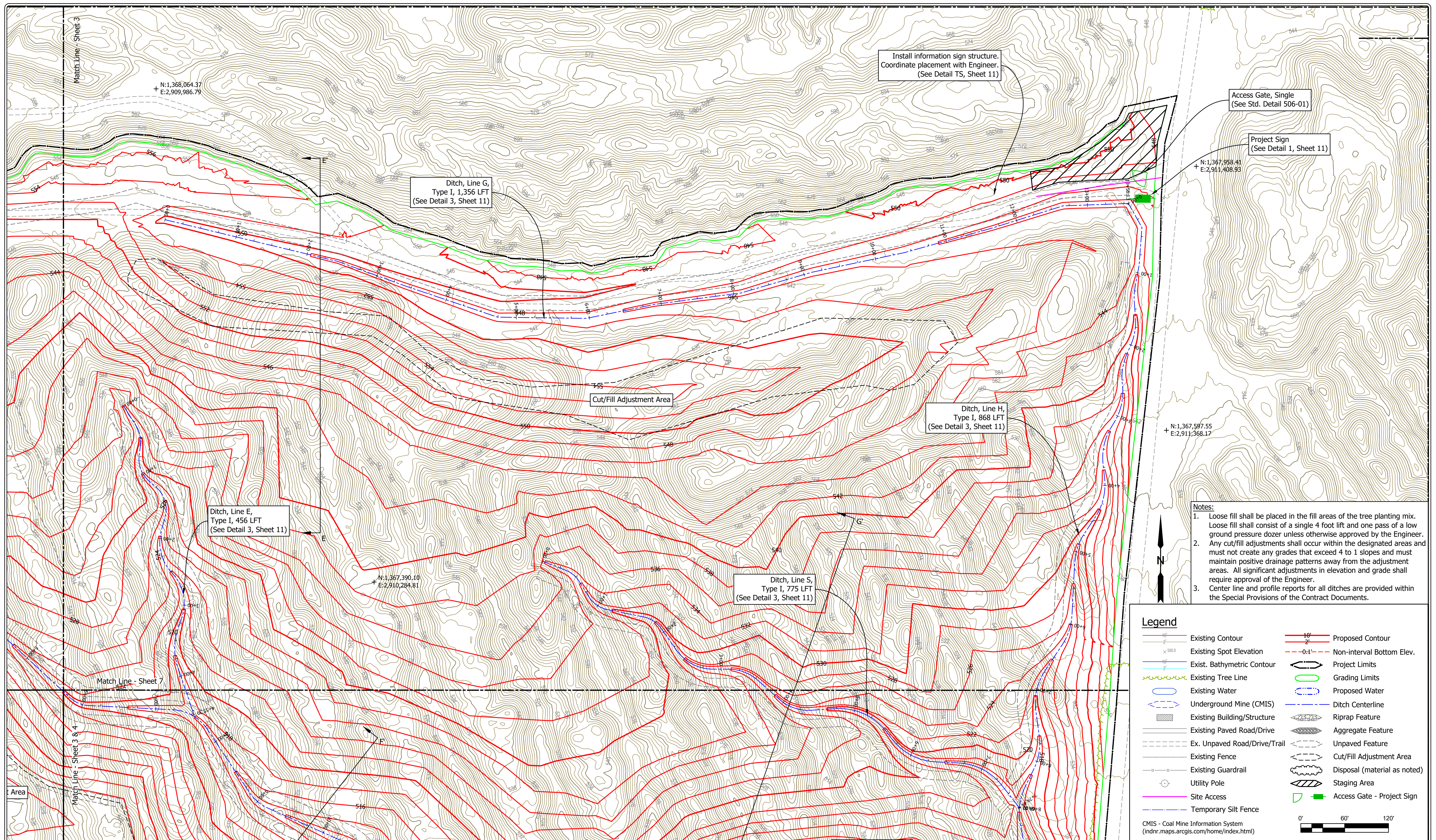
Legend

Existing Contour	Proposed Contour
Existing Spot Elevation	Non-interval Bottom Elev.
Exist. Bathymetric Contour	Project Limits
Existing Tree Line	Grading Limits
Existing Water	Proposed Water
Underground Mine (CMIS)	Ditch Centerline
Existing Building/Structure	Riprap Feature
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Ex. Unpaved Road/Drive/Trail	Unpaved Feature
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Existing Guardrail	Disposal (material as noted)
Utility Pole	Staging Area
Site Access	Access Gate - Project Sign
Temporary Silt Fence	

CMIS - Coal Mine Information System
(indnr.maps.arcgis.com/home/index.html)

0' 60' 120'

	RECOMMENDED FOR APPROVAL: <i>SM Clifford</i> 7/11/2025 DATE	DATE MADE 03/06/2024	SITE PLAN STATE OF INDIANA DEPARTMENT OF NATURAL RESOURCES DIVISION OF RECLAMATION	SCALE 1" = 60'	SHEET 5 OF 11
	DESIGNED BY S.M.C.	DRAWN BY S.M.C.		DATE REVISED 7/11/2025 12:41:07 PM	PROJECT E008-321



RECOMMENDED FOR APPROVAL: *SM Clifford* 7/11/2025 DATE

DESIGNED BY S.M.C. DRAWN BY S.M.C. DATE REVISED 7/11/2025 12:41:07 PM

DATE MADE 03/06/2024

DATE REVISED 7/11/2025 12:41:07 PM

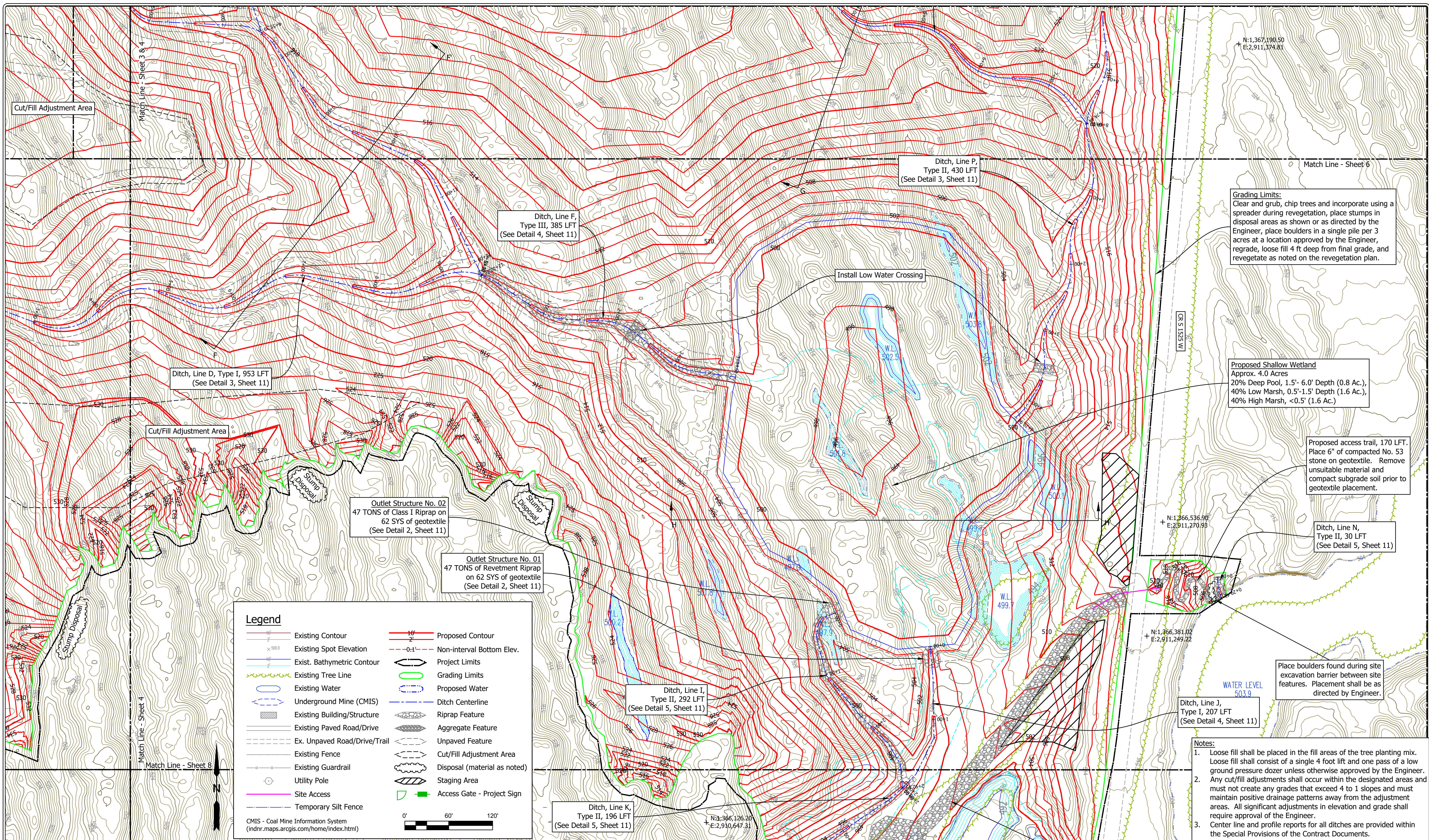
SITE PLAN
STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF RECLAMATION

SCALE 1" = 60'

PROJECT E008-321

SHEET 6 OF 11

SITE 131



Grading Limits:
 Clear and grub, chip trees and incorporate using a spreader during revegetation, place stumps in disposal areas as shown or as directed by the Engineer, place boulders in a single pile per 3 acres at a location approved by the Engineer, regrade, loose fill 4 ft deep from final grade, and revegetate as noted on the revegetation plan.

Proposed Shallow Wetland
 Approx. 4.0 Acres
 20% Deep Pool, 1.5'- 6.0' Depth (0.8 Ac.),
 40% Low Marsh, 0.5'-1.5' Depth (1.6 Ac.),
 40% High Marsh, <0.5' (1.6 Ac.)

Proposed access trail, 170 LFT.
 Place 6" of compacted No. 53 stone on geotextile. Remove unsuitable material and compact subgrade soil prior to geotextile placement.

Ditch, Line N,
 Type II, 30 LFT
 (See Detail 5, Sheet 11)

Place boulders found during site excavation barrier between site features. Placement shall be as directed by Engineer.

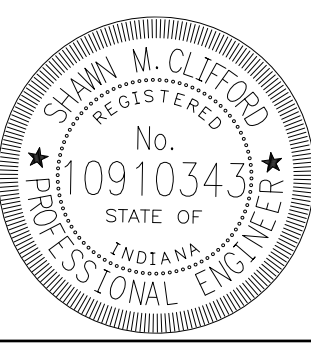
- Notes:**
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Legend

Existing Contour	Proposed Contour
Existing Spot Elevation	Non-interval Bottom Elev.
Exist. Bathymetric Contour	Project Limits
Existing Tree Line	Grading Limits
Existing Water	Proposed Water
Underground Mine (CMIS)	Ditch Centerline
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Ex. Unpaved Road/Drive/Trail	Unpaved Feature
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Existing Guardrail	Disposal (material as noted)
Utility Pole	Staging Area
Site Access	Access Gate - Project Sign
Temporary Silt Fence	

CMIS - Coal Mine Information System
 (indnr.maps.arcgis.com/home/index.html)

0' 60' 120'



RECOMMENDED FOR APPROVAL: *SM Clifford* 7/11/2025 DATE

DESIGNED BY: S.M.C. DRAWN BY: S.M.C.

DATE MADE: 03/06/2024

DATE REVISED: 7/11/2025 12:41:07 PM

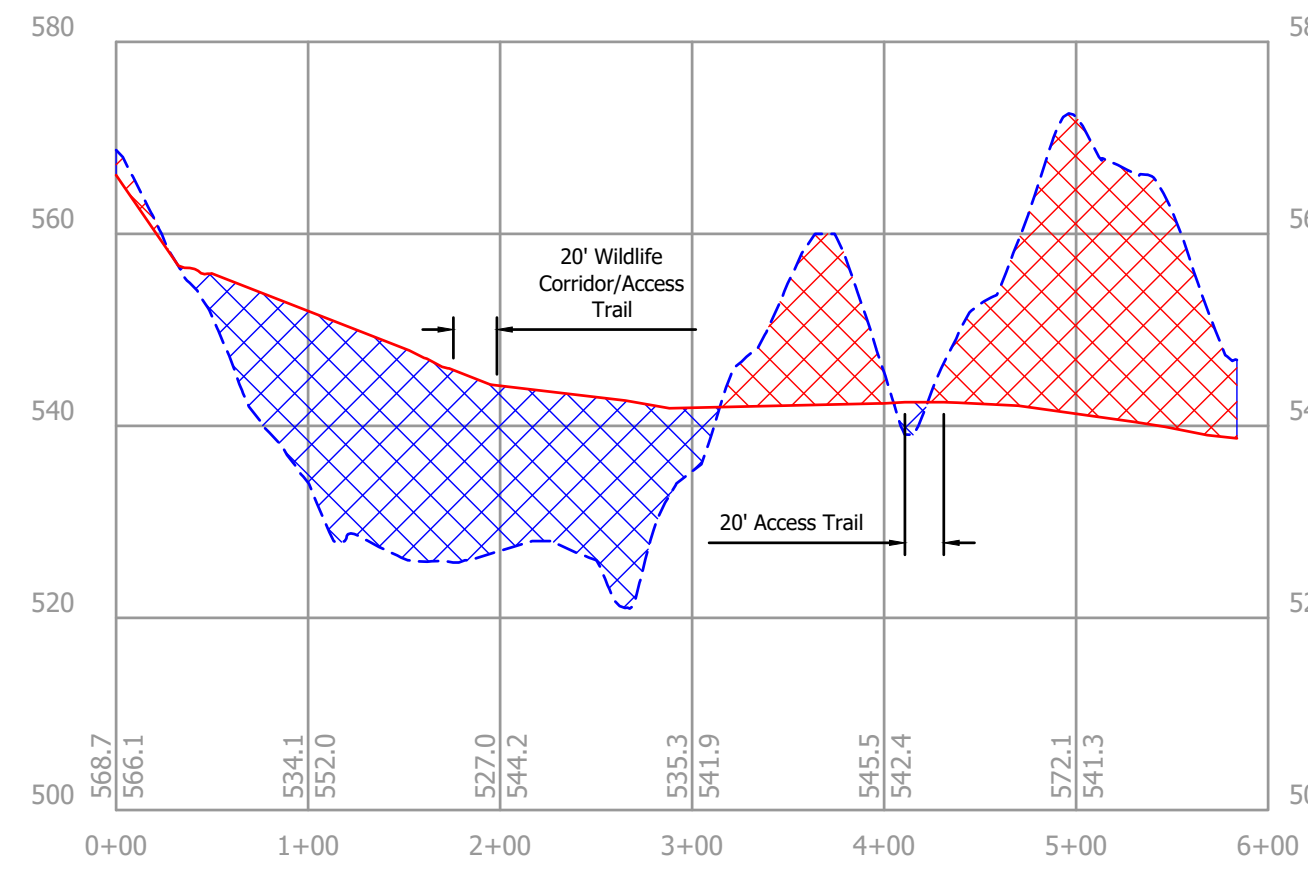
SITE PLAN
 STATE OF INDIANA
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF RECLAMATION

SCALE: 1" = 60'

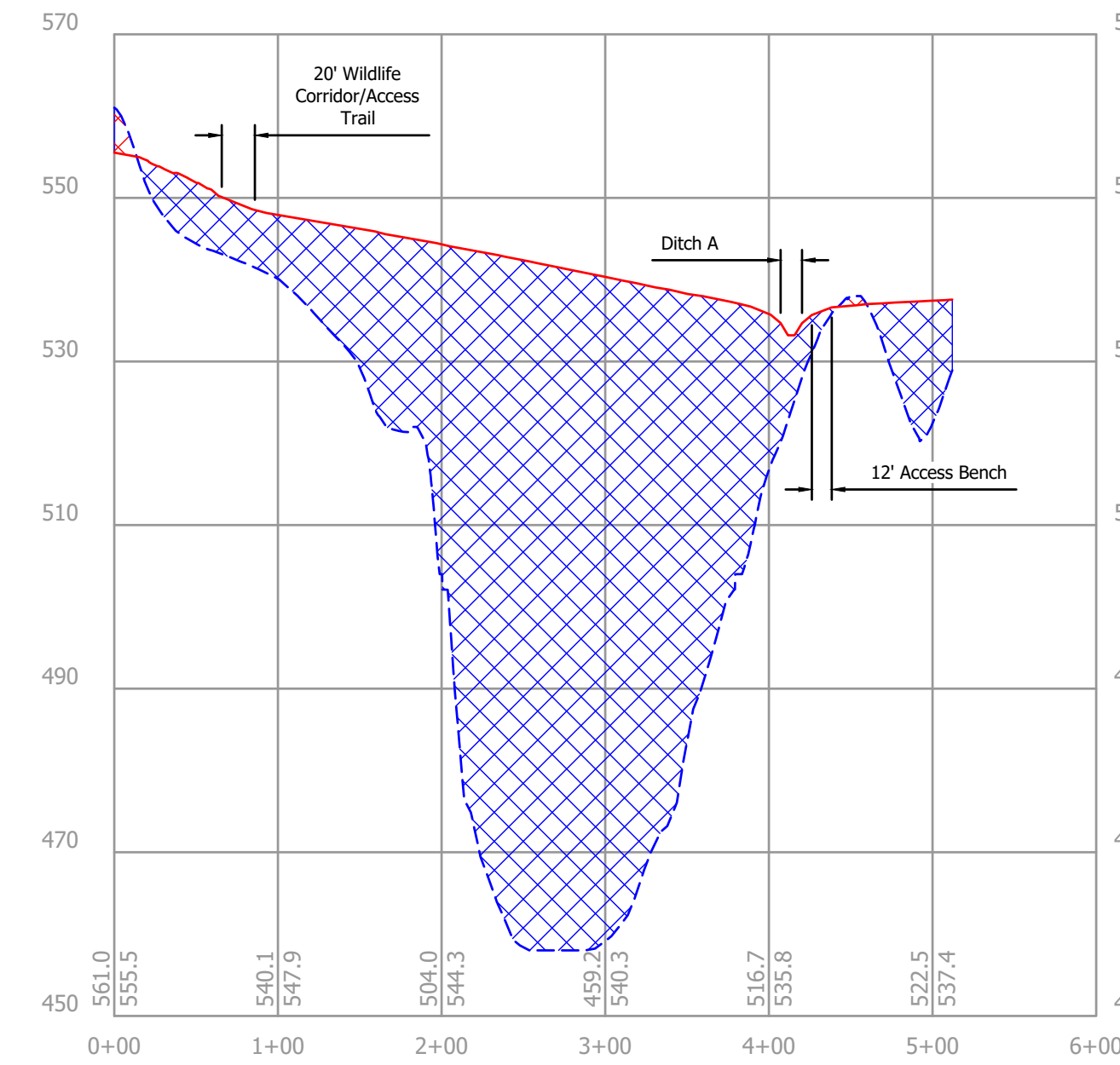
PROJECT: E008-321

SHEET: 7 OF 11

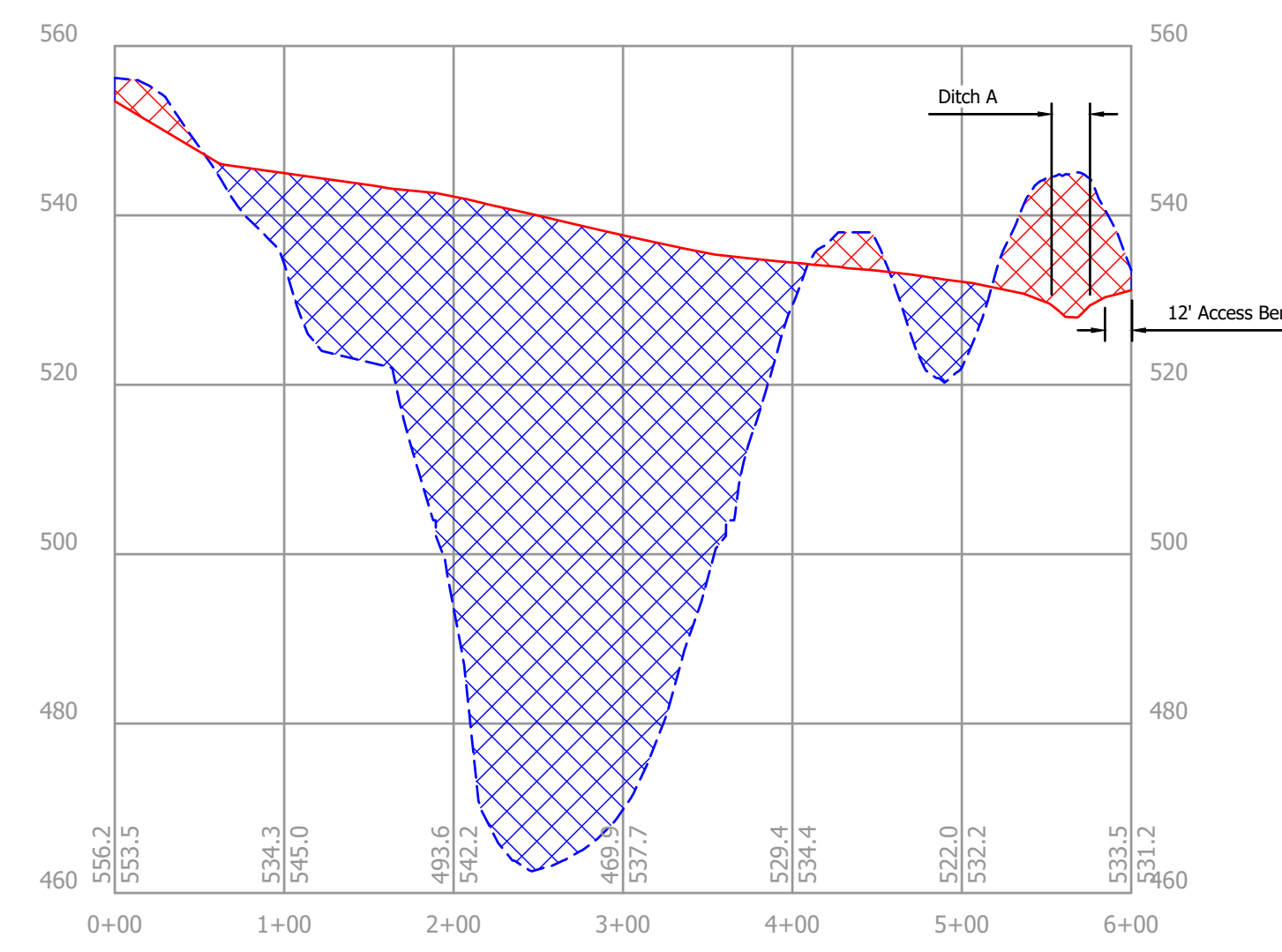
SITE: 131



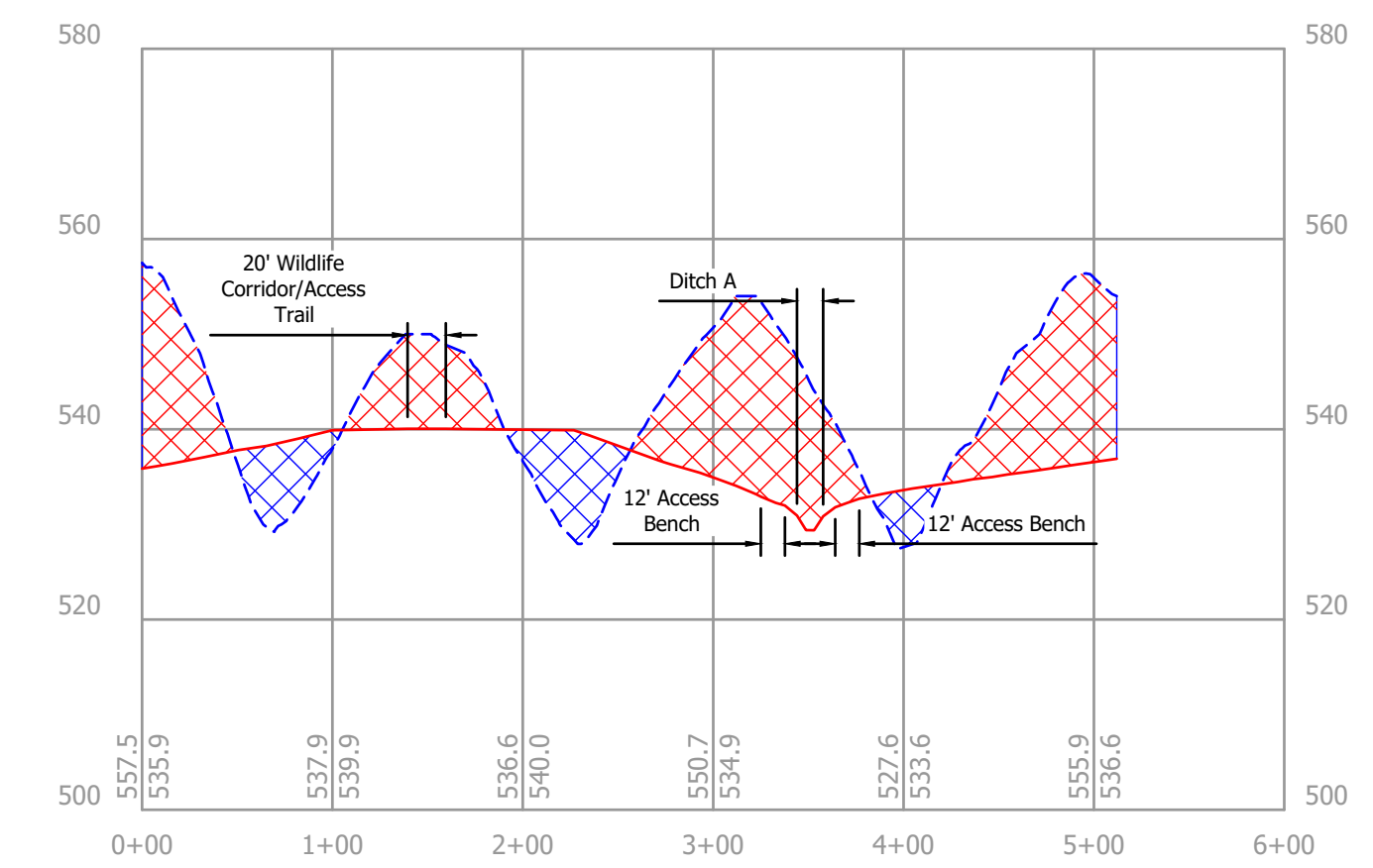
A Section A-A' (Sheet 3)
1" = 100' H, 20' V



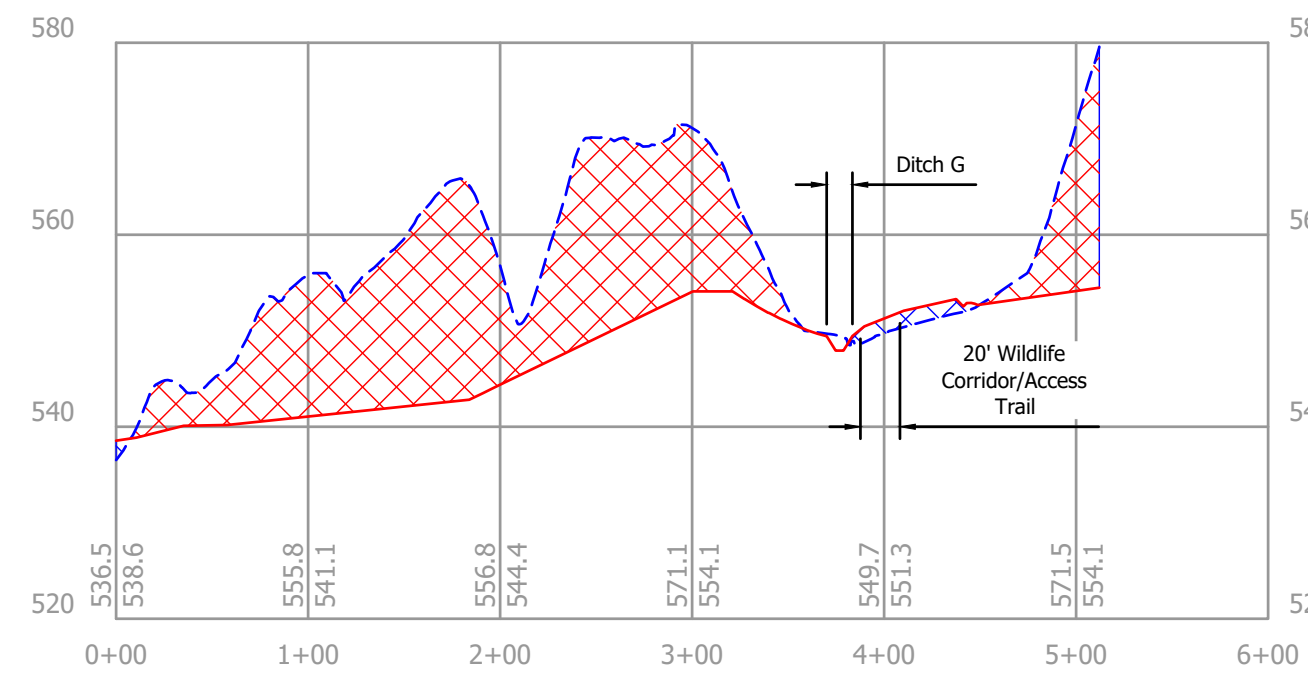
B Section B-B' (Sheet 3)
1" = 100' H, 20' V



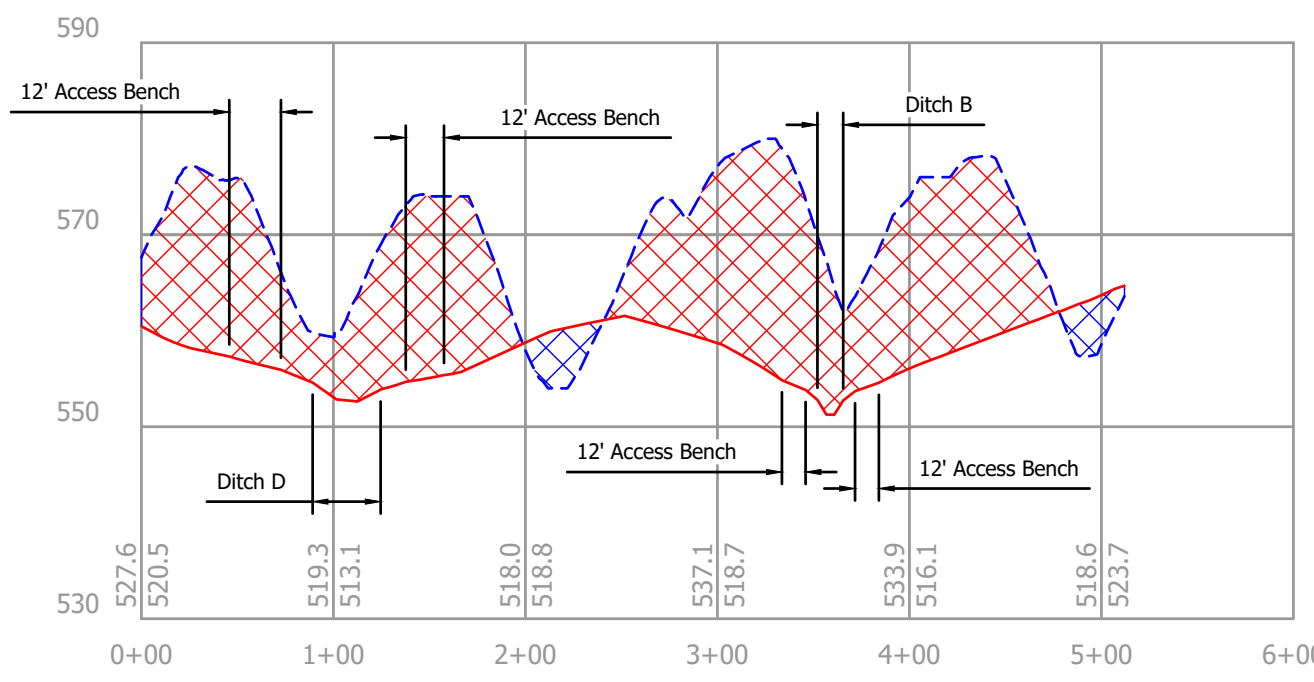
C Section C-C' (Sheet 6)
1" = 100' H, 20' V



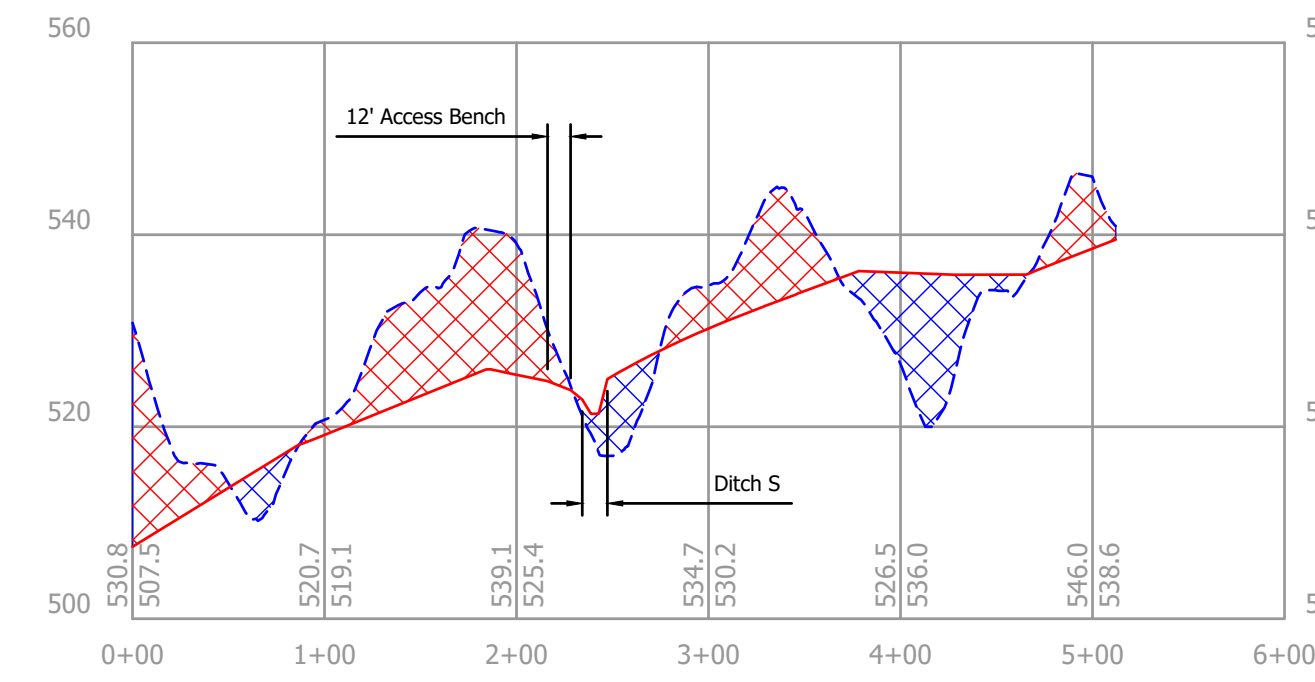
D Section D-D' (Sheet 3)
1" = 100' H, 20' V



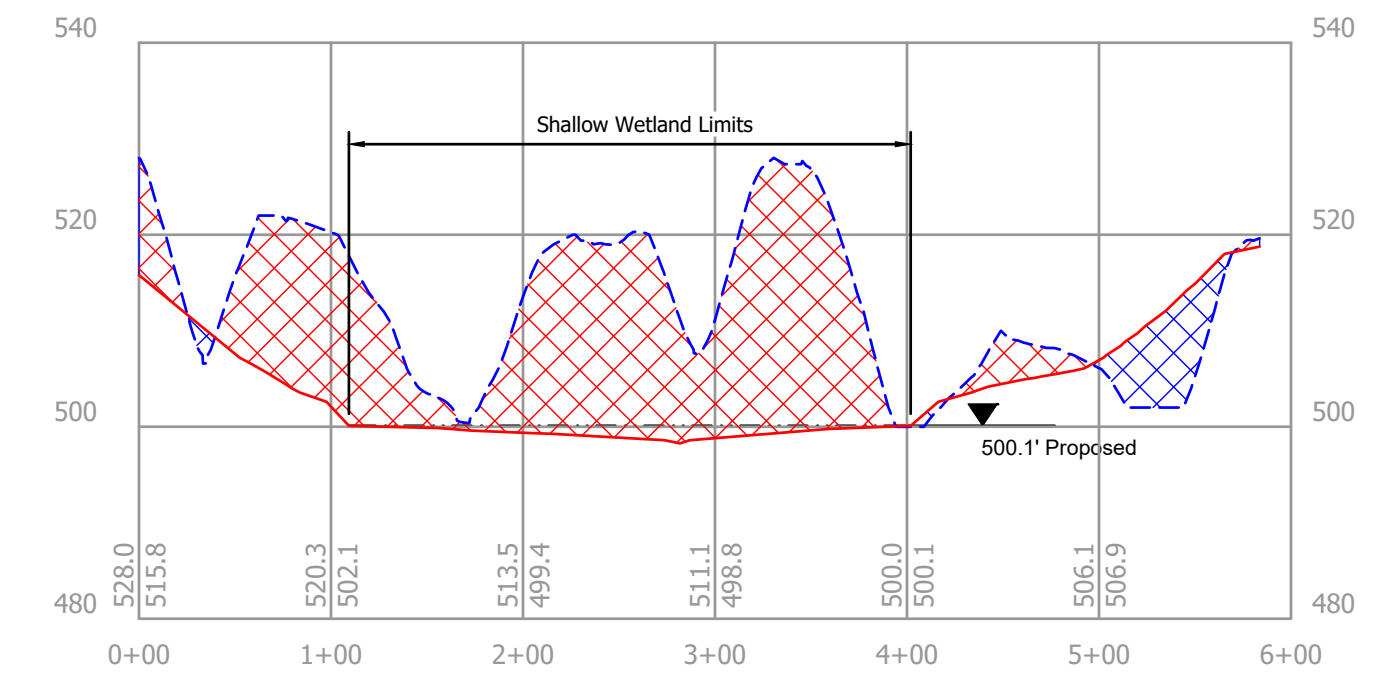
E Section E-E' (Sheet 4)
1" = 100' H, 20' V



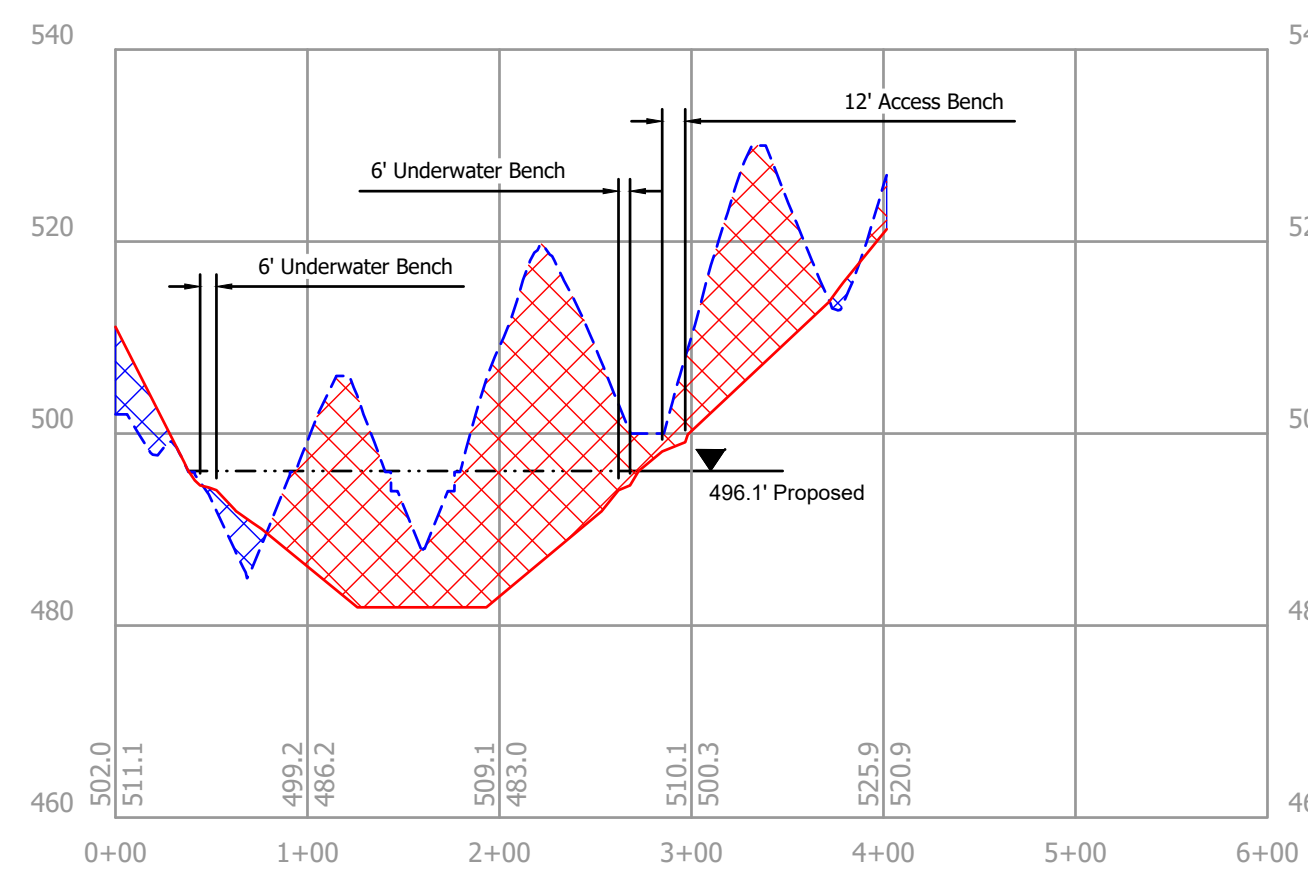
F Section F-F' (Sheet 5)
1" = 100' H, 20' V



G Section G-G' (Sheet 4)
1" = 100' H, 20' V

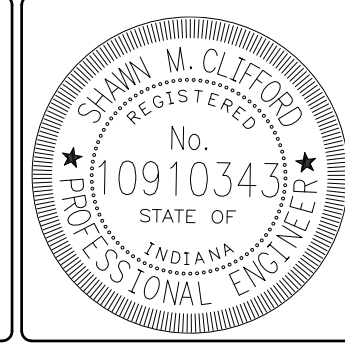


H Section H-H' (Sheet 5)
1" = 100' H, 20' V



I Section I-I' (Sheet 7)
1" = 100' H, 20' V

Legend	
	Existing Grade
	Design Grade
	Existing Water
	Proposed Water
	Cut
	Fill



RECOMMENDED FOR APPROVAL: *SMC* 7/11/2025
DATE

DATE MADE
11/01/2024

DESIGNED BY
S.M.C.

DRAWN BY
S.M.C.

DATE REVISED
7/11/2025 12:41:07 PM

SECTIONS
STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF RECLAMATION

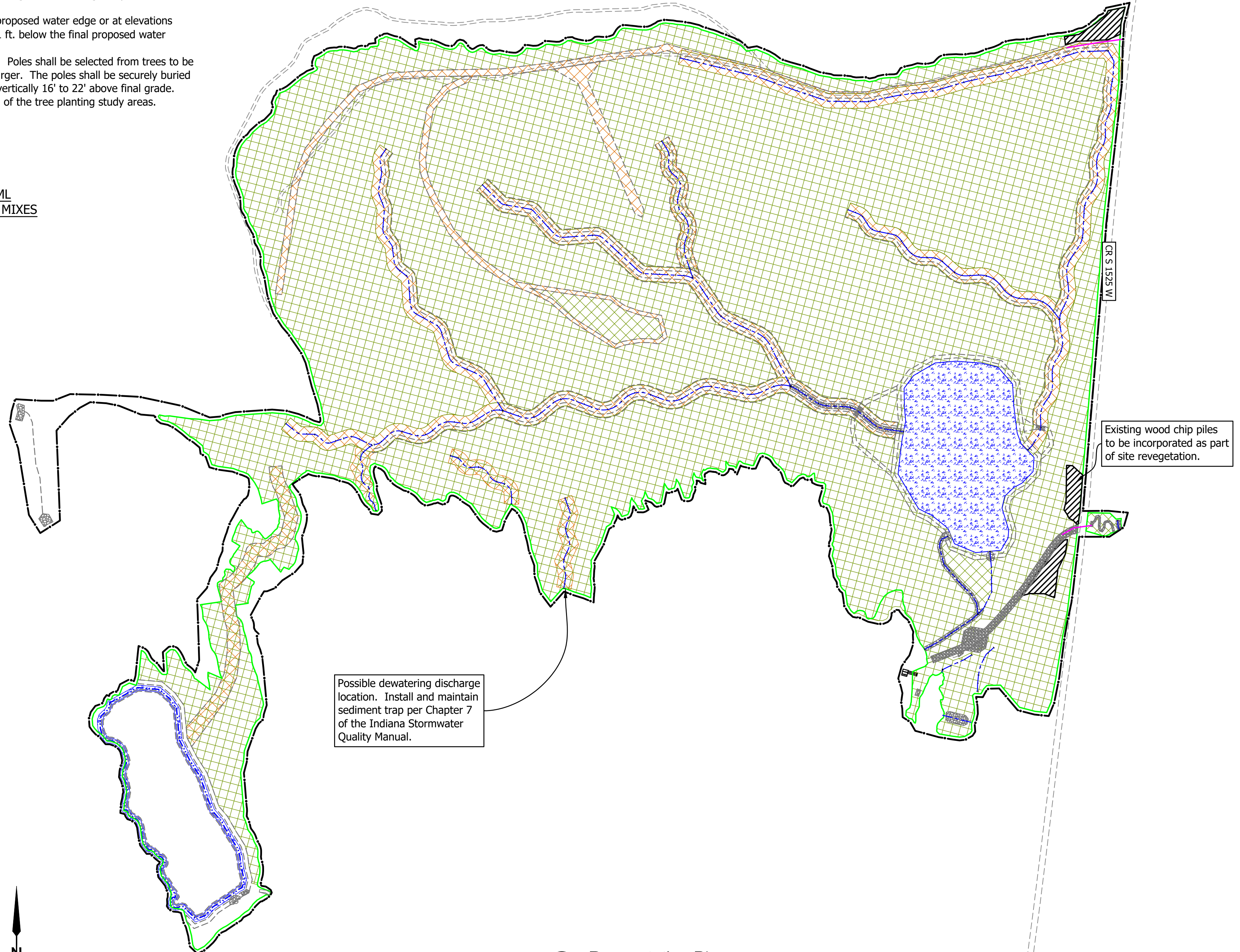
SCALE
AS NOTED
PROJECT
E008-321

SHEET
9 OF 11
SITE
131

Notes:

1. Loose fill shall be placed in the fill areas of the tree planting mix. Loose fill shall consist of a single 4 ft. lift and one pass of a low ground pressure dozer unless otherwise approved by the Engineer.
2. Field mix shall be placed on access routes, staging areas, grass-lined channels, and all other disturbed areas not otherwise specified on revegetation map, except in riprap, coarse aggregate, and final water areas.
3. Field mix shall be placed along channels to a minimum distance of 16 ft each side of its banks as well as 16' each side of the center of all significant drainage ways and conveyances.
4. Wetland mix shall be spread 1 ft. each side of proposed water edge or at elevations within the proposed detention areas that is \leq 1 ft. below the final proposed water surface elevation, whichever is greater.
5. Raptor poles shall be placed at one per 3 acres. Poles shall be selected from trees to be removed on site and shall be 12" diameter or larger. The poles shall be securely buried a minimum of 6' below final grade and extend vertically 16' to 22' above final grade. Raptor poles shall not be placed in or within 10' of the tree planting study areas.

****SEE SECTION 401.08 OF THE 2024 AML
STANDARD SPECIFICATIONS FOR SEED MIXES**

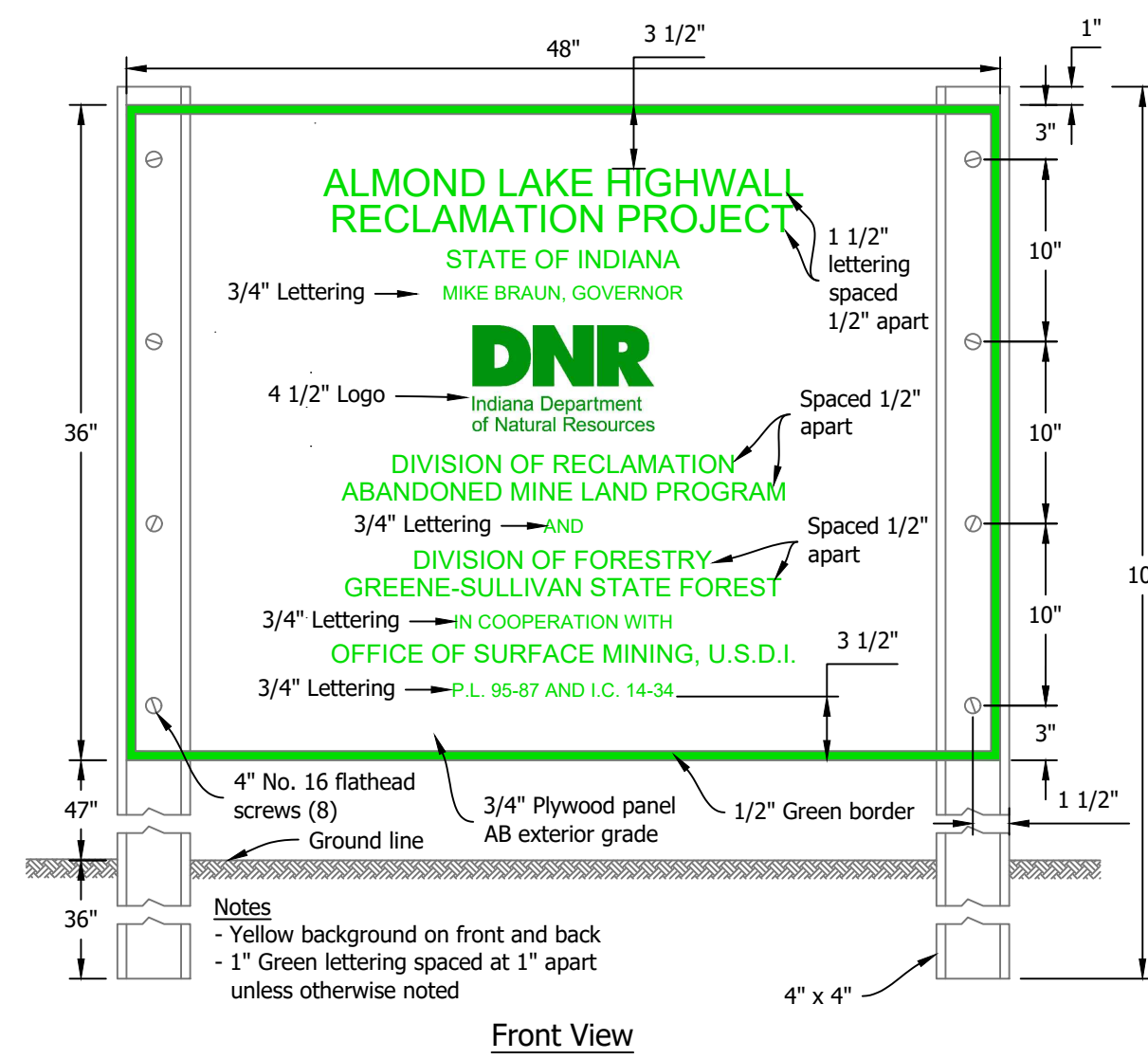


Legend

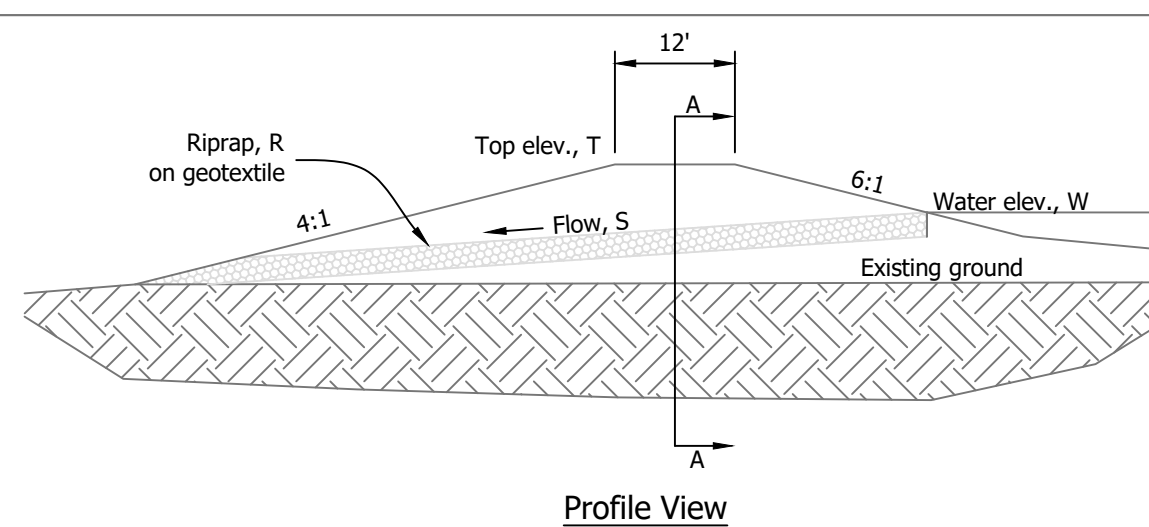
	Building/Structure		Riprap Feature
	Paved Road/Drive		Aggregate Feature
	Unpaved Road/Drive		Unpaved Feature
	Project Limits		Field Mix
	Grading Limits		Wetland Mix
	Proposed Water		Tree Planting Mix
	Site Access		Temporary Cover Mix
	Staging Area		

RP Revegetation Plan
1" = 200'

	RECOMMENDED FOR APPROVAL: <i>SMC</i> 7/11/2025 DATE	DATE MADE 11/01/2024	REVEGETATION	SCALE AS NOTED	SHEET 10 OF 11
	DESIGNED BY S.M.C.	DRAWN BY S.M.C.	DATE REVISED 7/11/2025 12:41:07 PM	STATE OF INDIANA DEPARTMENT OF NATURAL RESOURCES DIVISION OF RECLAMATION	PROJECT E008-321

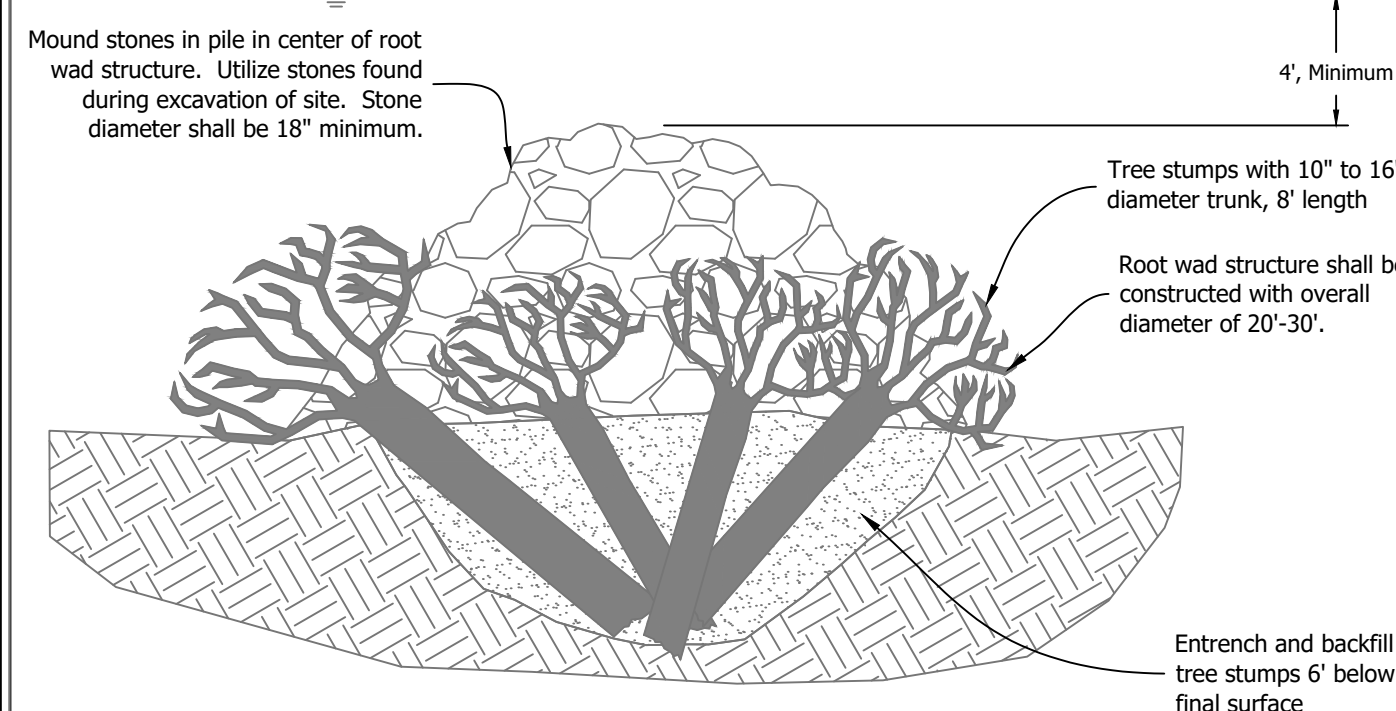


1 Project Sign
Not to Scale

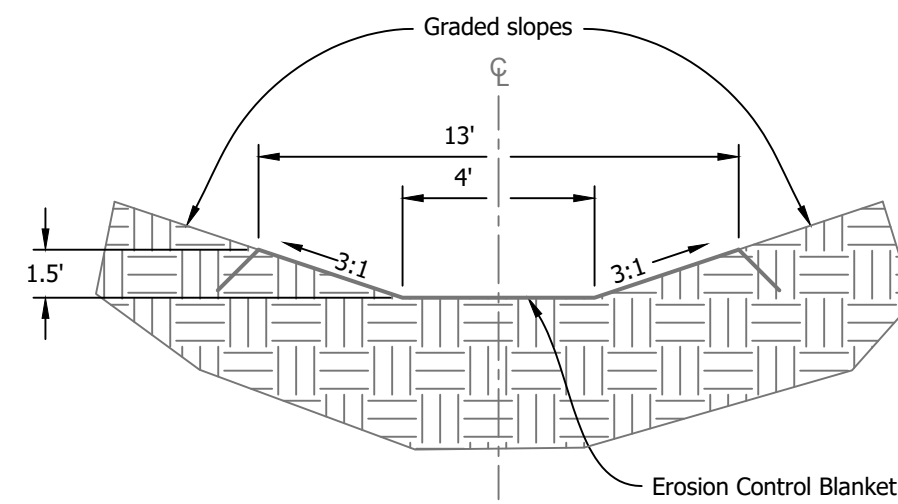


2 Outlet Structure
Not to Scale

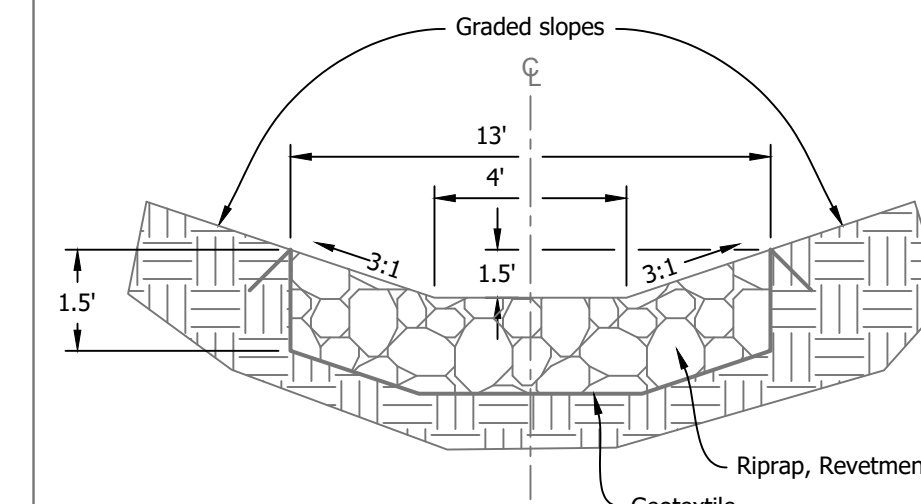
Outlet No.	Top Elev., T (ft)	Water Elev., W (ft)	Slope, S (%)	Riprap Type, R
01	502.4	499.9	2.0	18" of Revetment
02	503.9	502.4	2.0	24" of Class I
03	497.6	496.1	2.0	18" of Revetment



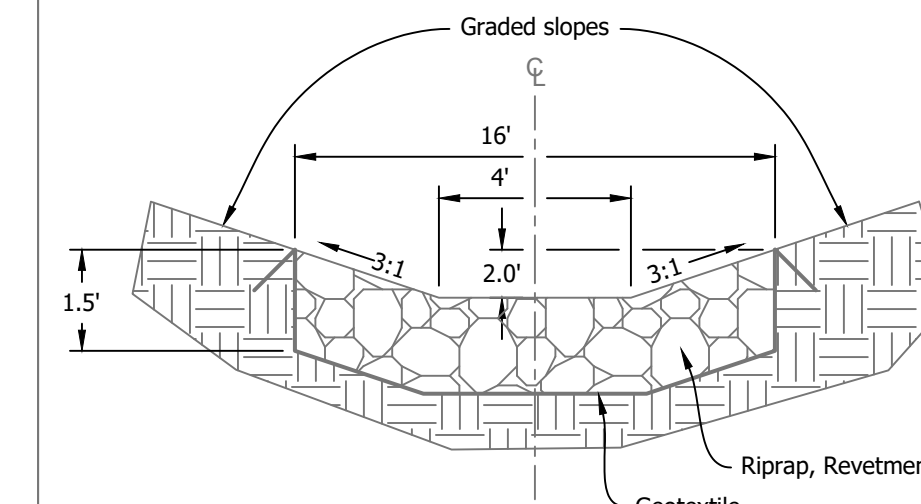
RW Fish Habitat Structure - Root Wad Hump
Not to Scale



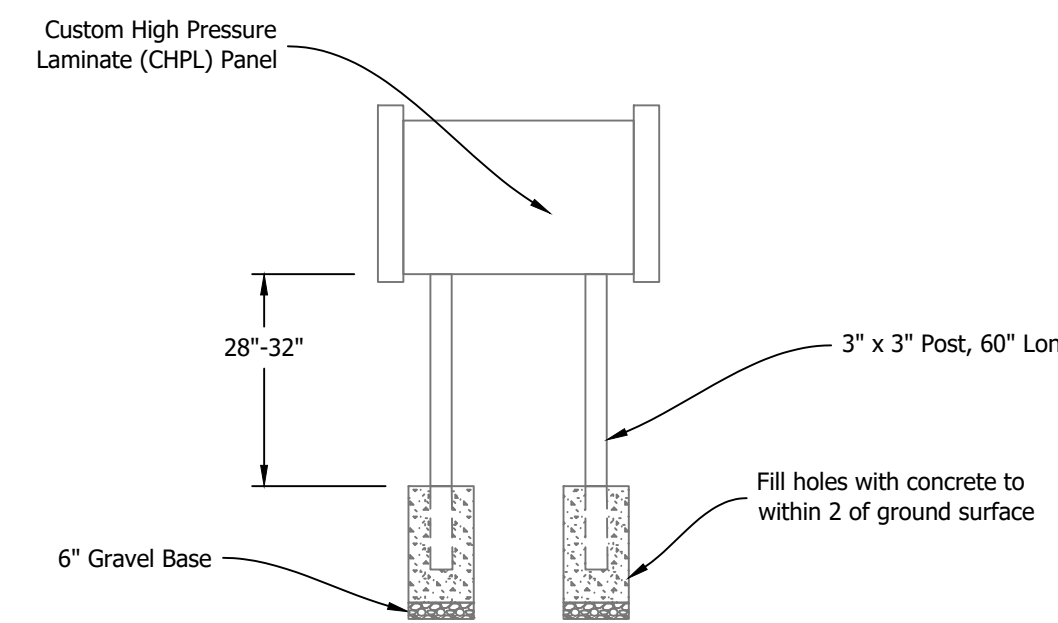
3 Ditch Lines A-E, G, H, J, L, M, O, & Q-S, Type I
Not to Scale



4 Ditch Lines I, K, N & P, Type II
Not to Scale

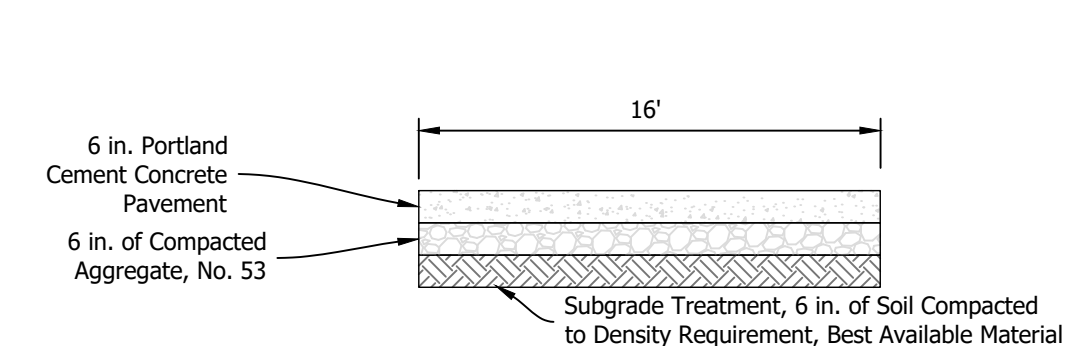


5 Ditch Lines F, Type III
Not to Scale



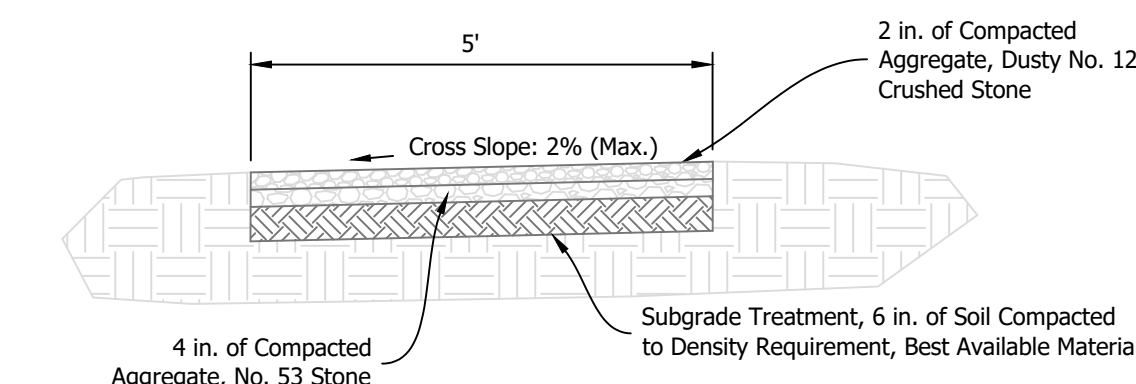
- Notes:**
1. Include all hardware and other materials required for sign placement and panel mounting per manufacturer's recommendations.
 2. Graphics for sign panel shall be provided by Owner prior to installation.

TS Informational Sign
Not to Scale



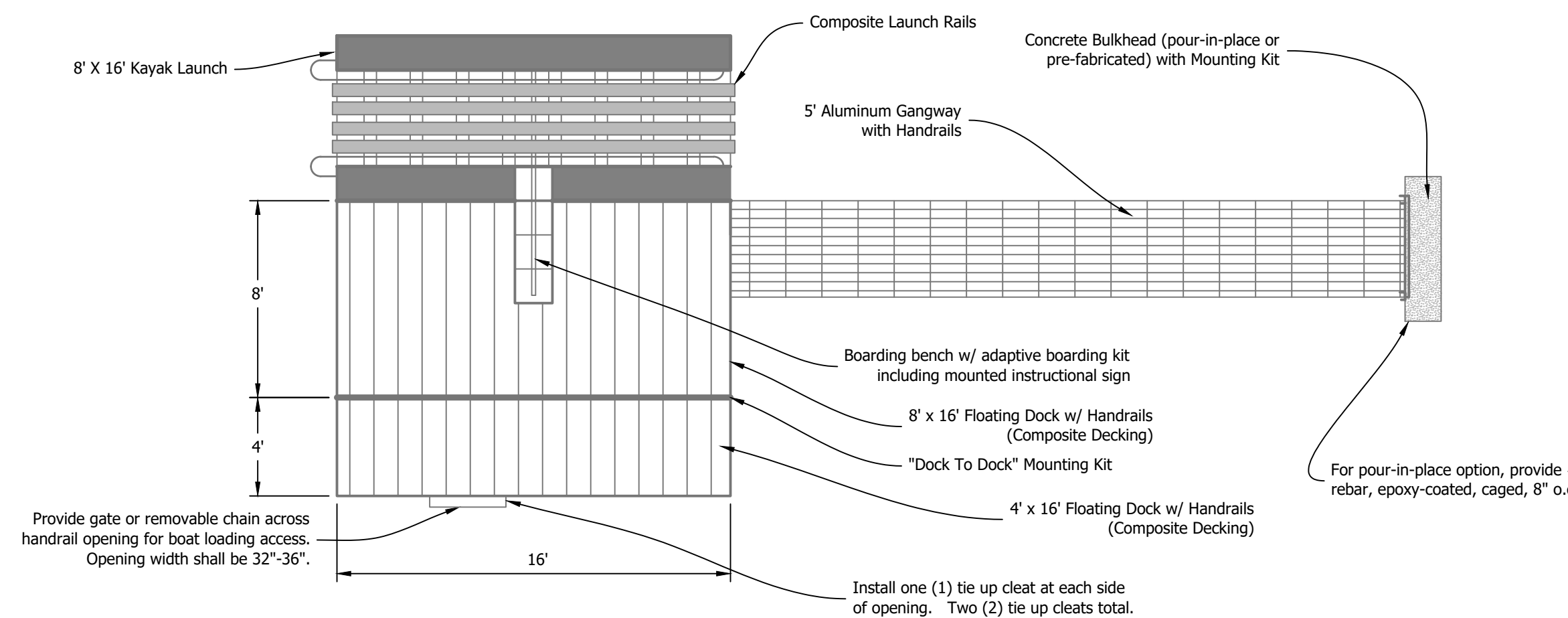
- Notes:**
1. Parking stall shall be 40' long unless otherwise noted.
 2. Accessible parking sign (MUTCD R7-8) shall be placed at front of stall at 60" above final grade.
 3. Sign shall include van accessible sign (MUTCD R7-8P).
 4. Sign shall be mounted on Type A, U-channel (INDOT 910.14) with an embedment length of 3'-6".
 5. Posts/bollards shall be installed for signage protection. Posts shall be 6" x 8", 30" in height, and spaced at 2' o.c. Confirm final placement and arrangement with Engineer.
 6. Parking Stall will be 11' wide with a 5' wide concrete aisle (marked with blue paint), 16' total.

PS Parking Stall w/ Accessible Sign
Not to Scale



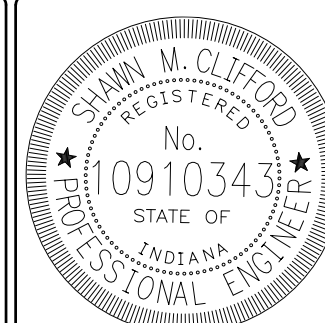
- Notes:**
1. Aggregate used as part of concrete mix shall meet INDOT specifications 904.02 and 904.03.

AP Access Pathway
Not to Scale



- Notes:**
1. Dock to be comprised of floating dock sections with 16" freeboard and 2.5" draft depth with no live load present.
 2. Dock sections shall be coupled together using manufacturer's materials and per manufacturer's specifications to produce a single connected system.
 3. All dock framing components shall be comprised of Marine Grade 6061 or 6063 aluminum.
 4. Variable height accessible handrail and toe rail shall be provided along perimeter of floating dock sections.
 5. Security curbing shall be provided along deck sections adjacent to boat launch system and sections where handrails are not provided.
 6. Decking to be gray composite with a span rating of 24" on center and shall be attached using the TimberStrong fastening system or equivalent.
 7. Flotation will be provided for dock components (gangway, kayak chute, floating dock, etc.) with encapsulated foam.
 8. Adaptive boarding kit shall include: One (1) kayak roll cage, one (1) overhead grab bar, one (1) informational instruction sign, one (1) 4-tiered boarding bench with retractable seat, and four (4) hand straps suspended from roll cage.
 9. Gangway shall have structural truss railing on both sides of the gangway.
 10. Site conditions may require modifications or deviations to this dock system, including addition of stabilization and/or anchorage components. Any changes from this dock system as shown shall be provided to the Owner by the contractor or consultant for approval prior to purchase and installation.
 11. The dock system shall be warranted for a period of one (1) year from the project construction completion date. The warranty shall cover all labor and materials. The warranty does not need to cover damage caused by acts of God (storms, wind, flooding, ice or any other adverse weather conditions), modification by client or damage by vessel.

DO Dock w/ Accessible Launch System
Not to Scale



RECOMMENDED FOR APPROVAL: *SM Clifford* 7/11/2025 DATE

DESIGNED BY
S.M.C.

DRAWN BY
S.M.C.

DATE REVISED
7/11/2025 12:41:07 PM

DATE MADE
11/01/2024

STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF RECLAMATION

DETAILS

SCALE
AS NOTED

PROJECT
E008-321

SHEET
11 OF 11

SITE
131