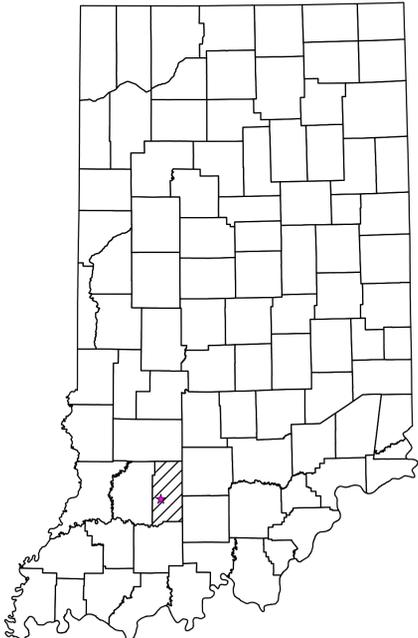


SEALS DPE	
SITE NO.	CONTRACT NO.
2376	ENG2615225054/E008-372
MARTIN COUNTY	
	

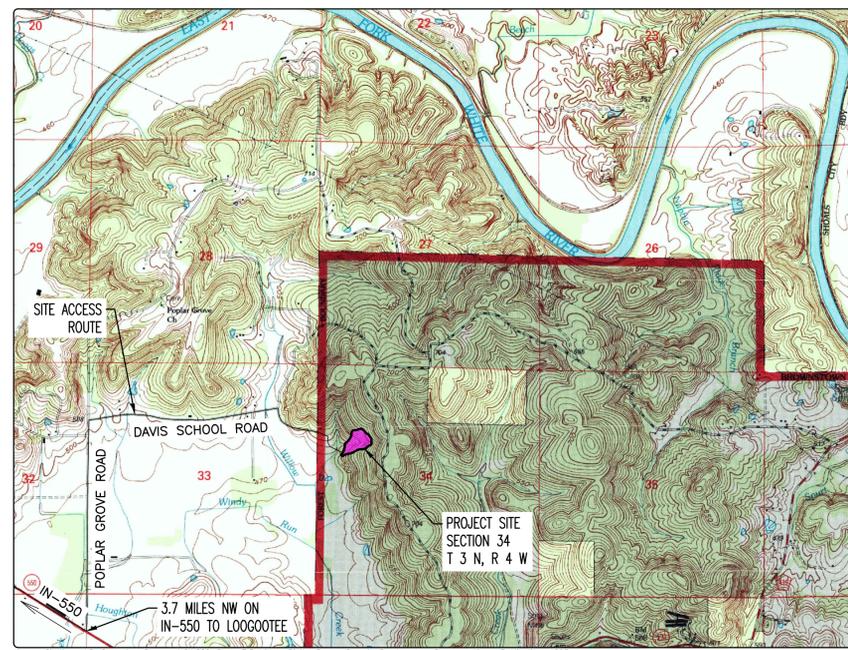
STATE OF INDIANA
INDIANA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF RECLAMATION



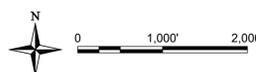
ABANDONED COAL MINE
RESTORATION

SEALS DPE
SITE NO. 2376
CONTRACT ENG2615225054/E008-372
MARTIN COUNTY

Clear and grub, eliminate dangerous piles and embankments, address acid mine drainage, address subsidence area, improve drainage, and revegetate the site to enhance wildlife habitat.



Project Location Map
USGS Topo, Shoals, IN (USGS,1993)



GENERAL NOTES

2024 AML Standard Specifications to be used with these plans.
Plans Developed From USGS Digital Elevation Model Indiana Statewide LiDAR Original Product Resolution 2017, in NAD 83 Indiana State Plane West, US Feet.
An NPDES discharge permit is required for this project.

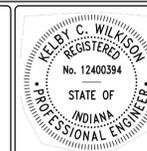
INDEX

SHEET NO.	SHEET TITLE
1	TITLE, INDEX, AND LOCATION MAP
2	ACCESS ROAD ALIGNMENT
3	SITE MAP
4	PROPOSED SITE
5	DRAINAGE PLAN VIEWS AND PROFILES
6	EARTHWORK CROSS SECTIONS
7	CONSTRUCTION DETAILS
8	REVEGETATION PLAN

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: Daviess-Martin County REMC 12628 County Rd 75 N Loogootee, IN 47553 Phone: (812) 295-4200	PIPELINE: Marathon Pipeline LLC 539 S Main St Findlay, OH 45840 Phone: (855) 888-8056
NATURAL GAS: Vectren 211 NW Riverside Dr Evansville, IN 47708 Phone: (800) 227-1376	Vectren/Centerpoint 211 NW Riverside Dr Evansville, IN 47708 Phone: (800) 227-1376
WATER/SANITARY: N/A	TELECOM: RTC Communications 244 N Main St Montgomery, IN 47558 Phone: (xxx) xxx-xxxx



PLANS PREPARED BY:	TRIHYDRO CORPORATION	(304) 745-7474
CERTIFIED BY:	<i>Kelby Wilkinson</i>	PHONE NUMBER 12/17/2025 DATE
APPROVED FOR LETTING:	DIVISION OF RECLAMATION	DATE

SCALE AS NOTED	SHEET 1 OF 8
PROJECT E008-372	SITE 2376

SECTION 34
T 3 N, R 3 W

DAVIS SCHOOL ROAD

JAMES M & SHERI SEALS

SECTION 34
T 3 N, R 4 W

PROPOSED SITE ACCESS ROUTE

DITCH SIZE TO BE UPGRADED
ON NORTH SIDE OF ROAD

EXISTING SITE ACCESS ROUTE

INSTALL 24" DIA RCP
CULVERT NO. 1

INSTALL 24" DIA RCP
CULVERT NO. 2

TIE-INTO AND REPAIR
EXISTING DITCH

ROADSIDE DITCH WITH VEGETATION

THOMAS & MELBA HARKER

JAMES M & SHERI SEALS

ROADSIDE DITCH WITH REVETMENT
(STATIONS 13+50 - 16+50)

APPROXIMATE GRADING LIMITS

ROADSIDE DITCH WITH VEGETATION

APPROXIMATE PROJECT LIMITS

APPROXIMATE UNDERGROUND UTILITIES

INSTALL 36" DIA RCP
CULVERT NO. 3

PROPOSED STAGING AREA

Legend

- 5' Proposed Contour
- AML Site Feature, AMD
- Existing Road
- Site Access
- Stream
- Existing Underground Utilities
- Vegetation Lined Ditch Flow Direction
- Revetment Lined Ditch Flow Direction
- Proposed Culvert
- Project Limits
- Grading Limits
- Staging Area
- Land Ownership Parcels
- Existing Contour (1-FT)



CMIS - Coal Mine Information System
(dnrmapps.dnr.in.gov/apps/cmisis.htm)

Image Citation: ©2025 Microsoft Corporation ©2025 Maxar ©CNES (2025) Distribution Airbus DS Bing Image
Topography Citation: USGS Digital Elevation Model Indiana Statewide LIDAR Original Product Resolution 2017

NOTES:

1. ACCESS ROAD WILL BE WIDENED BY 2-3 FEET TO ALLOW FOR IMPROVED ACCESS.
2. CONTRACTOR WILL BE PROVIDED ROAD GRADING INFORMATION VIA ELECTRONIC GRADING SURFACE.
3. ROAD WILL BE RESURFACED WITH COMPACTED AGGREGATE, NO. 53.

CULVERT PIPE SUMMARY TABLE

CULVERT	APPROXIMATE ROAD STATION	SKEW	UPSTREAM ELEVATION	DOWNSTREAM ELEVATION	PIPE SLOPE	PIPE LENGTH	PIPE SIZE (INCHES)	PIPE MATERIAL	COMMENT
CULVERT NO. 1	3+75	90°	481.19 FT	477.35 FT	13.5%	28 LFT	24 inches	RCP	REPLACE
CULVERT NO. 2	9+00	78°	496.44 FT	499.12 FT	7.0%	33 LFT	24 inches	RCP	REPLACE
CULVERT NO. 3	19+25	90°	483.78 FT	482.82 FT	1.8%	47 LFT	36 inches	RCP	NEW



RECOMMENDED FOR APPROVAL: *Kelby Wilkison* 12/17/2025 DATE

DESIGNED BY: KW

DRAWN BY: MR

DATE MADE: 09/04/2025

DATE REVISED: 12/17/2025

ACCESS ROAD ALIGNMENT

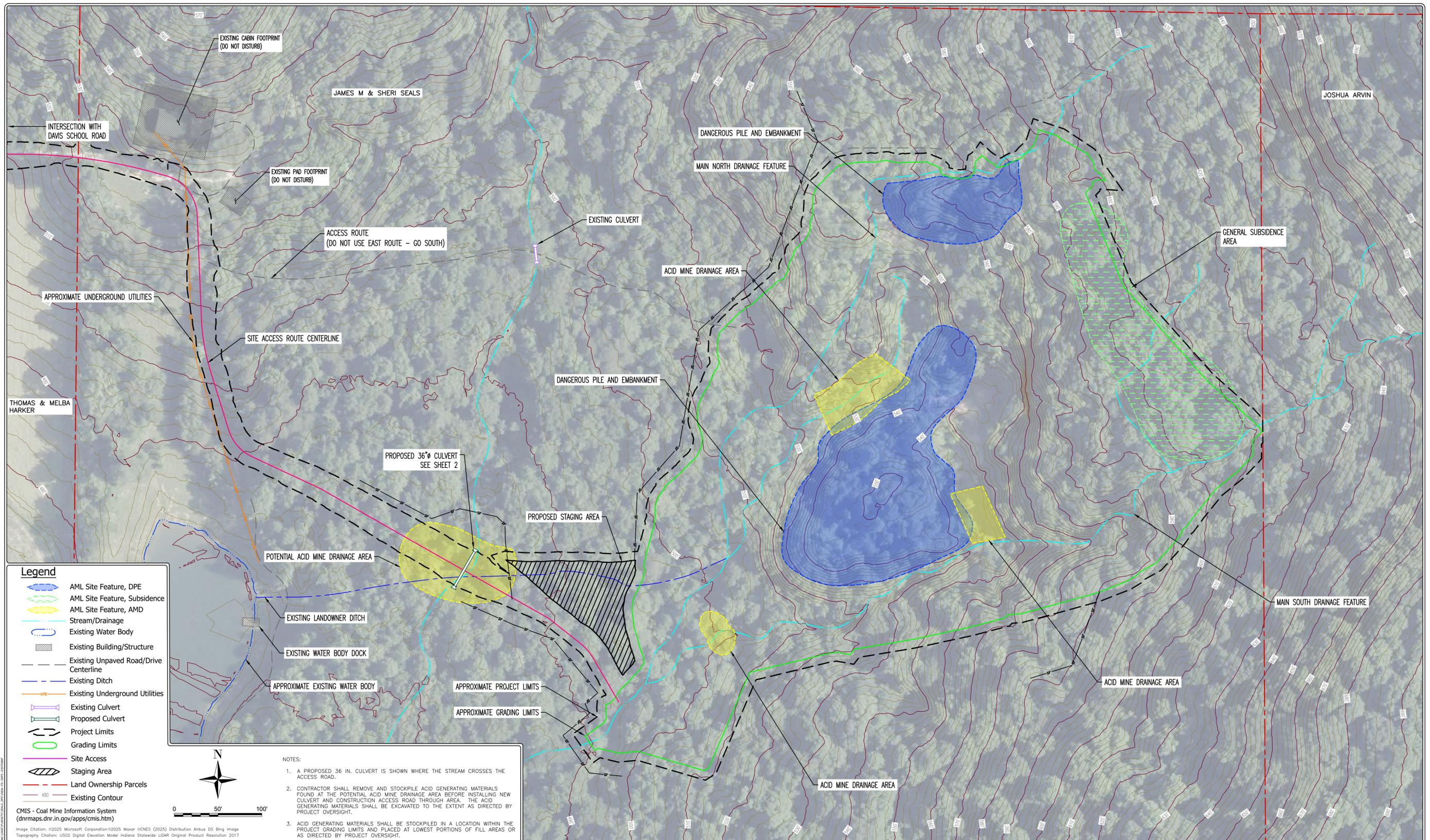
STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF RECLAMATION

SCALE: 1" = 60'

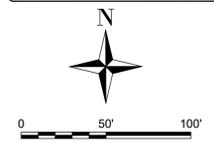
PROJECT: E008-372

SHEET: 2 OF 8

SITE: 2376



- Legend**
- AML Site Feature, DPE
 - AML Site Feature, Subsidence
 - AML Site Feature, AMD
 - Stream/Drainage
 - Existing Water Body
 - Existing Building/Structure
 - Existing Unpaved Road/Drive Centerline
 - Existing Ditch
 - Existing Underground Utilities
 - Existing Culvert
 - Proposed Culvert
 - Project Limits
 - Grading Limits
 - Site Access
 - Staging Area
 - Land Ownership Parcels
 - Existing Contour



- NOTES:**
1. A PROPOSED 36 IN. CULVERT IS SHOWN WHERE THE STREAM CROSSES THE ACCESS ROAD.
 2. CONTRACTOR SHALL REMOVE AND STOCKPILE ACID GENERATING MATERIALS FOUND AT THE POTENTIAL ACID MINE DRAINAGE AREA BEFORE INSTALLING NEW CULVERT AND CONSTRUCTION ACCESS ROAD THROUGH AREA. THE ACID GENERATING MATERIALS SHALL BE EXCAVATED TO THE EXTENT AS DIRECTED BY PROJECT OVERSIGHT.
 3. ACID GENERATING MATERIALS SHALL BE STOCKPILED IN A LOCATION WITHIN THE PROJECT GRADING LIMITS AND PLACED AT LOWEST PORTIONS OF FILL AREAS OR AS DIRECTED BY PROJECT OVERSIGHT.

CMIS - Coal Mine Information System
 (dnrmaps.dnr.in.gov/apps/cmisis.htm)
 Image Citation: ©2025 Microsoft Corporation ©2025 Maxar ©CNES (2025) Distribution Airbus DS Bing Image
 Topography Citation: USGS Digital Elevation Model Indiana Statewide LIDAR Original Product Resolution 2017



RECOMMENDED FOR APPROVAL:	<i>Kelby Williams</i>	12/17/2025
		DATE
DESIGNED BY	KW	
DRAWN BY	MR	

DATE MADE	09/04/2025
DATE REVISED	12/17/2025

SITE MAP

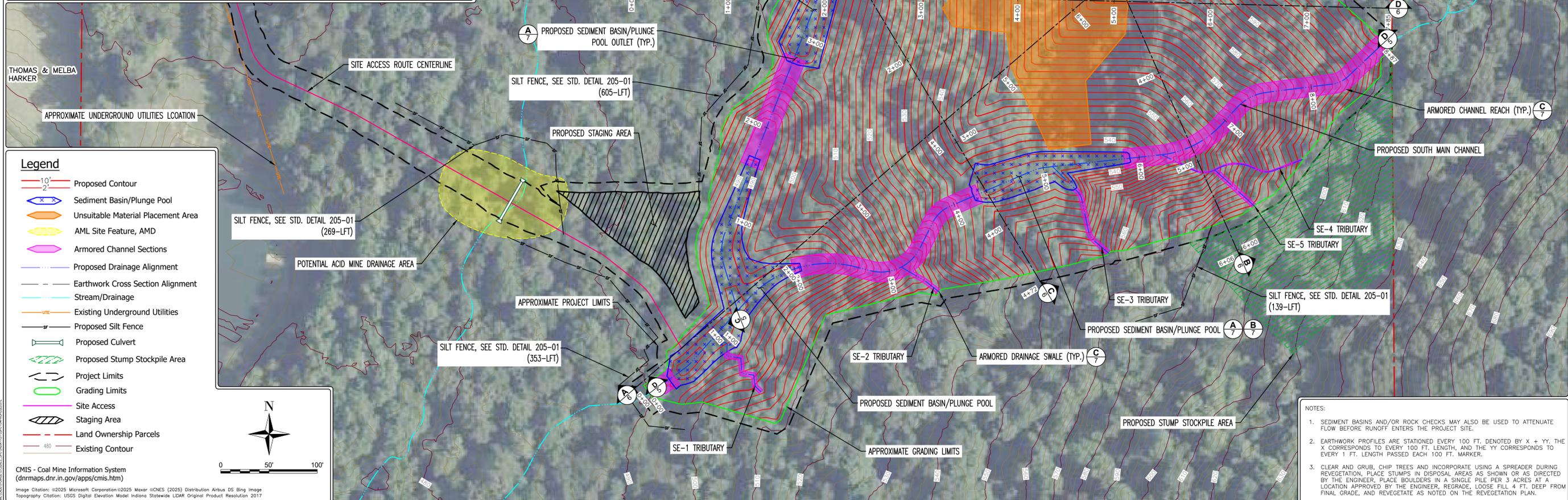
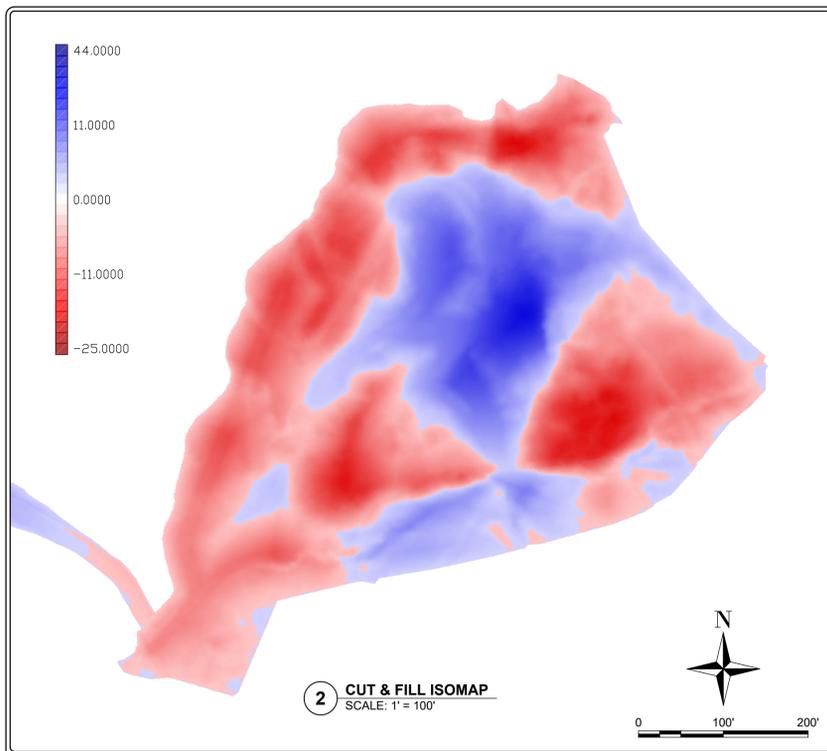
STATE OF INDIANA
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF RECLAMATION

SCALE
 1" = 50'

PROJECT
 E008-372

SHEET
 3 OF 8

SITE
 2376



Legend

- Proposed Contour
- Sediment Basin/Plunge Pool
- Unsuitable Material Placement Area
- AML Site Feature, AMD
- Armored Channel Sections
- Proposed Drainage Alignment
- Earthwork Cross Section Alignment
- Stream/Drainage
- Existing Underground Utilities
- Proposed Silt Fence
- Proposed Culvert
- Proposed Stump Stockpile Area
- Project Limits
- Grading Limits
- Site Access
- Staging Area
- Land Ownership Parcels
- Existing Contour

CMIS - Coal Mine Information System
 (dnrmaps.dnr.in.gov/apps/cmisis.htm)

Image Citation: ©2025 Microsoft Corporation ©2025 Maxar ©CNES (2025) Distribution Airbus DS Bing Image
 Topography Citation: USGS Digital Elevation Model Indiana Statewide LIDAR Original Product Resolution 2017

NOTES:

1. SEDIMENT BASINS AND/OR ROCK CHECKS MAY ALSO BE USED TO ATTENUATE FLOW BEFORE RUNOFF ENTERS THE PROJECT SITE.
2. EARTHWORK PROFILES ARE STATIONED EVERY 100 FT. DENOTED BY X + YY. THE X CORRESPONDS TO EVERY 100 FT. LENGTH, AND THE YY CORRESPONDS TO EVERY 1 FT. LENGTH PASSED EACH 100 FT. MARKER.
3. CLEAR AND CRUB, 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.

 1252 Commerce Drive Laramie, Wyoming 82070 www.trihydro.com (307)742-7474 (F) 307742-7729		RECOMMENDED FOR APPROVAL: <i>Kelby Willison</i> 12/17/2025 DATE	DATE MADE 09/04/2025	PROPOSED SITE	SCALE AS NOTED	SHEET 4 OF 8
		DESIGNED BY KW	DRAWN BY MR	DATE REVISED 12/17/2025	STATE OF INDIANA DEPARTMENT OF NATURAL RESOURCES DIVISION OF RECLAMATION	PROJECT E008-372

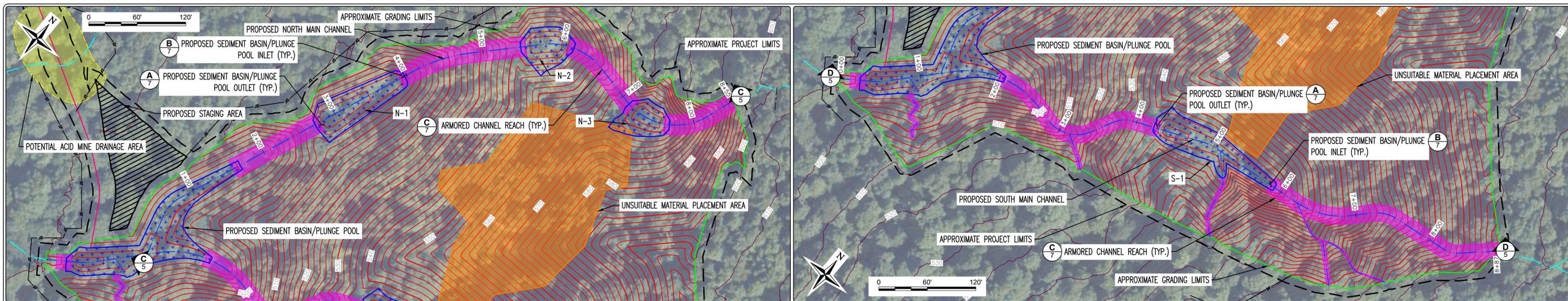
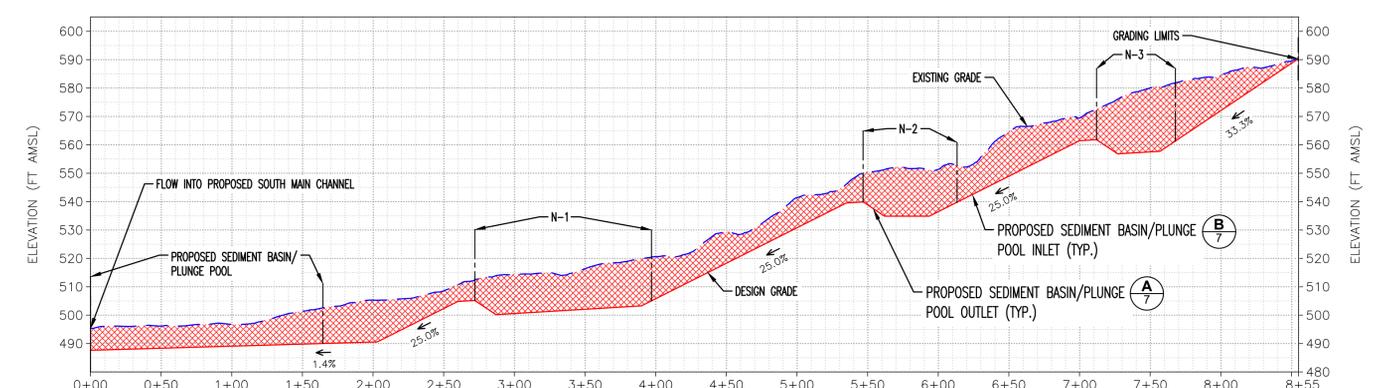


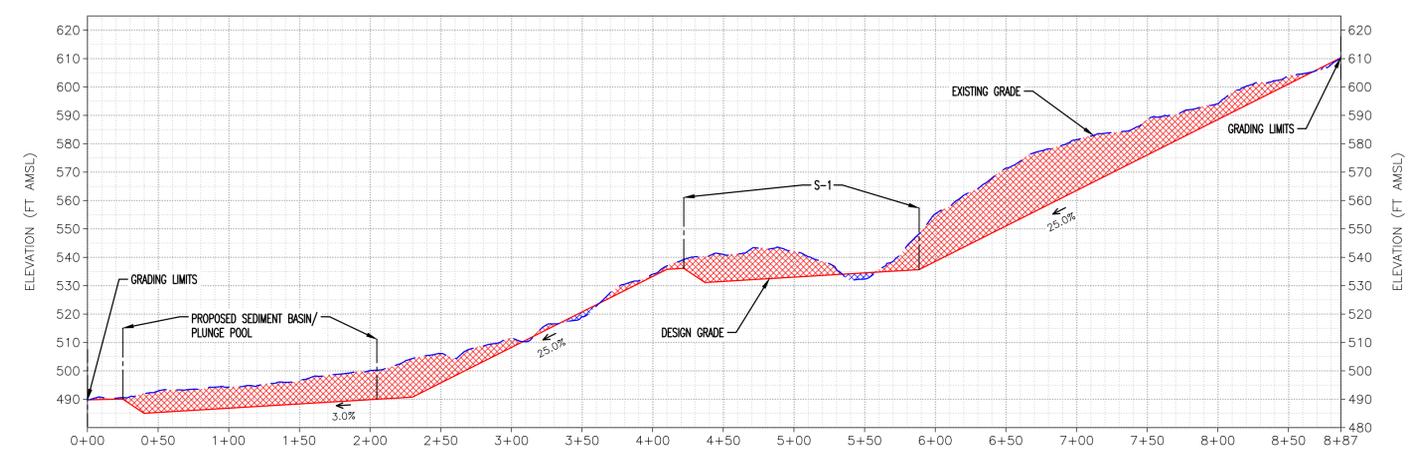
Image Citation: ©2025 Microsoft Corporation ©2025 Maxar ©CNES (2025) Distribution Airbus DS Bing Image
 Topography Citation: USGS Digital Elevation Model Indiana Statewide LIDAR Original Product Resolution 2017
 OMS - Coal Mine Information System (dormaps.dnr.in.gov/apps/oms.htm)

A NORTH DRAINAGE PLAN VIEW
 SCALE: 1" = 60'

B SOUTH DRAINAGE PLAN VIEW
 SCALE: 1" = 60'



C NORTH DRAINAGE PROFILE
 SCALE: H: 1" = 60' V: 1" = 30'



D SOUTH DRAINAGE PROFILE
 SCALE: H: 1" = 60' V: 1" = 30'

- Plan View Legend**
- 10' / 2' Proposed Contour
 - Sediment Basin/Plunge Pool
 - Unsuitable Material Placement Area
 - AML Site Feature, AMD
 - Armored Channel Sections
 - Proposed Drainage Alignment
 - Earthwork Cross Section Alignment
 - Stream/Drainage
 - Existing Underground Utilities
 - Project Limits
 - Grading Limits
 - Site Access
 - Staging Area
 - Land Ownership Parcels
 - Existing Contour

- NOTES:**
1. AMSL - ABOVE MEAN SEA LEVEL.
 2. THE DOWNSTREAM SEDIMENT BASIN/PLUNGE POOL OUTLET WILL BE ARMORED.
 3. THE UPSTREAM PORTIONS OF THE CHANNELS WILL BE ARMORED. SEDIMENT BASINS AND/OR ROCK CHECKS MAY ALSO BE USED TO ATTENUATE FLOW BEFORE RUNOFF ENTERS THE PROJECT SITE.

- Grading Profile Legend**
- Existing Grade
 - Design Grade
 - Cut
 - Fill



RECOMMENDED FOR APPROVAL: *Kelby Wilkison* 12/17/2025 DATE

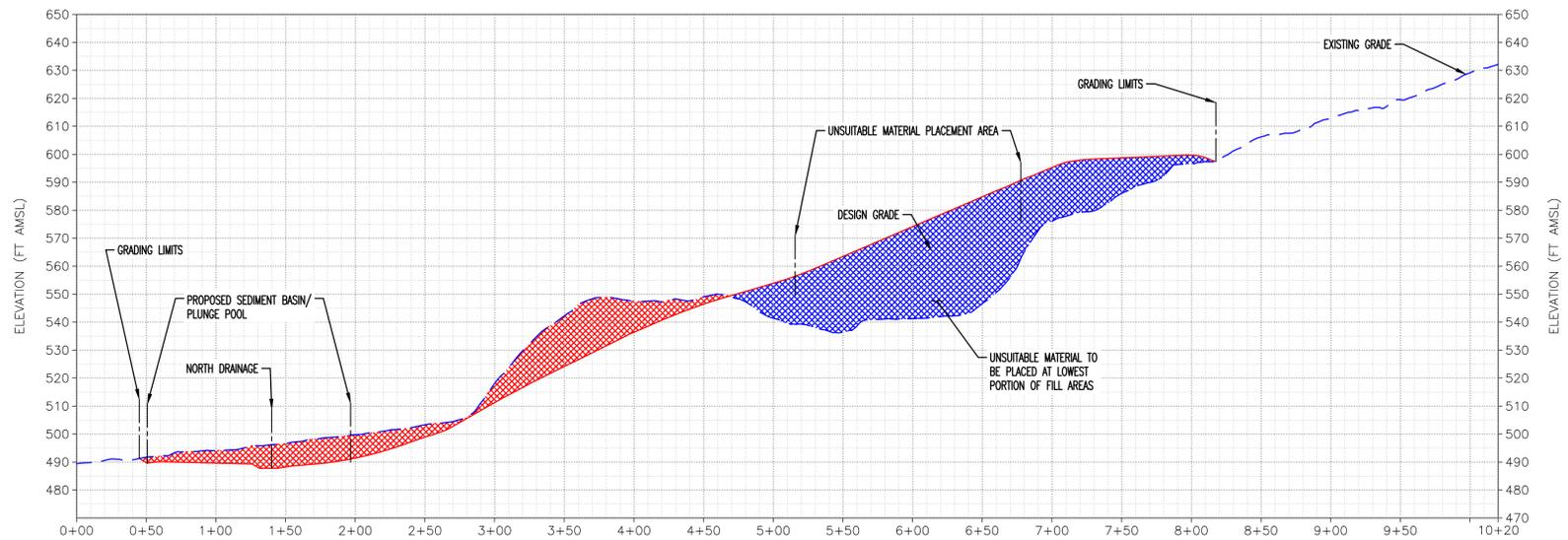
DESIGNED BY: KW
 DRAWN BY: MR

DATE MADE: 09/04/2025

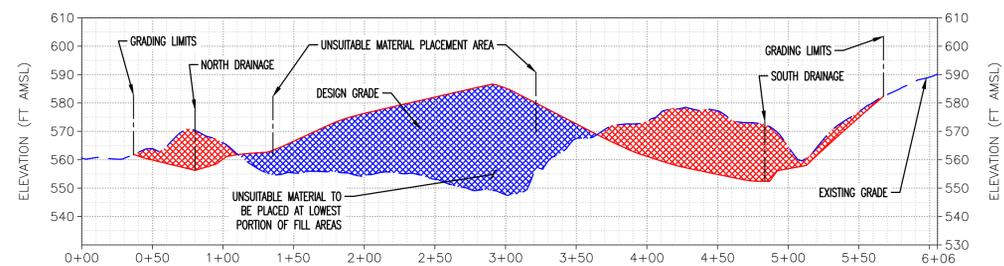
DATE REVISED: 12/17/2025

DRAINAGE PLAN VIEWS AND PROFILES
 SCALE AS NOTED
 PROJECT E008-372
 STATE OF INDIANA
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF RECLAMATION

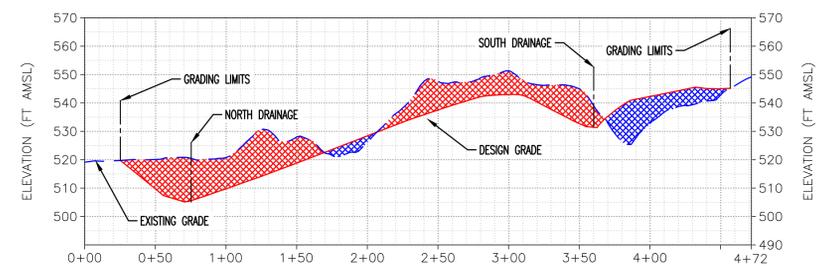
SHEET 5 OF 8
 SITE 2376



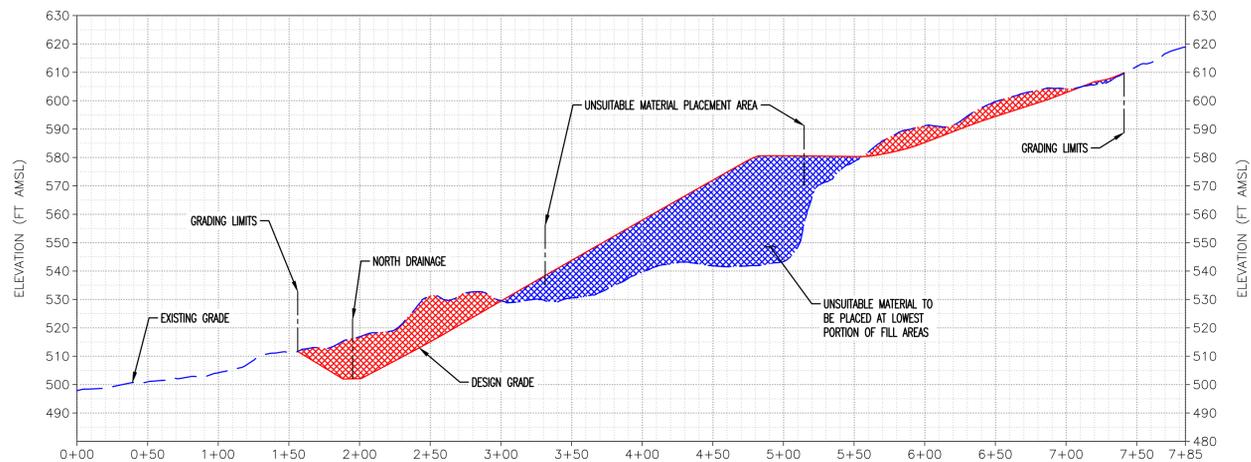
A EARTHWORK CROSS SECTION A
SCALE: H: 1" = 60' V: 1" = 30'



B EARTHWORK CROSS SECTION B
SCALE: H: 1" = 60' V: 1" = 30'

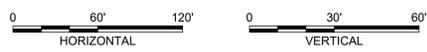


C EARTHWORK CROSS SECTION C
SCALE: H: 1" = 60' V: 1" = 30'

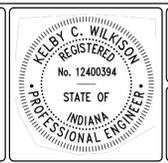


D EARTHWORK CROSS SECTION D
SCALE: H: 1" = 60' V: 1" = 30'

Legend	
	Existing Grade
	Design Grade
	Cut
	Fill



NOTES:
1. AMSL - ABOVE MEAN SEA LEVEL
2. THE PROPOSED CUT AND FILL RATIO IS APPROXIMATELY 1.29.



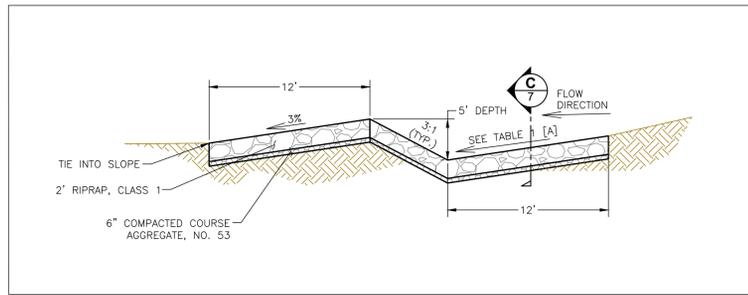
RECOMMENDED FOR APPROVAL:	<i>Kelby Wilkinson</i>	12/17/2025
		DATE
DESIGNED BY	DRAWN BY	DATE REVISED
KW	MR	12/17/2025

DATE MADE	09/04/2025
DATE REVISED	12/17/2025

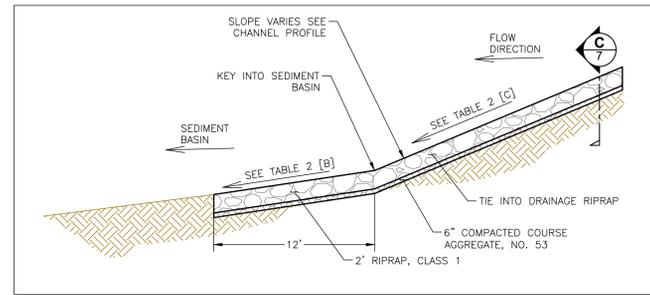
EARTHWORK CROSS SECTIONS
STATE OF INDIANA DEPARTMENT OF NATURAL RESOURCES DIVISION OF RECLAMATION

SCALE AS NOTED
PROJECT E008-372

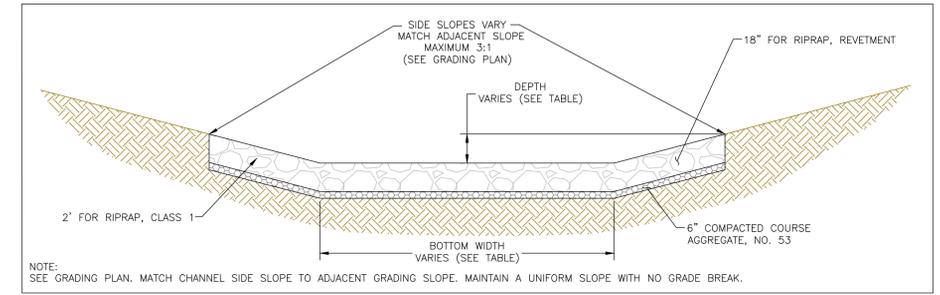
SHEET 6 OF 8
SITE 2376



A TYPICAL RIPRAP SEDIMENT BASIN OUTLET
SCALE: NONE



B TYPICAL RIPRAP SEDIMENT BASIN INLET
SCALE: NONE



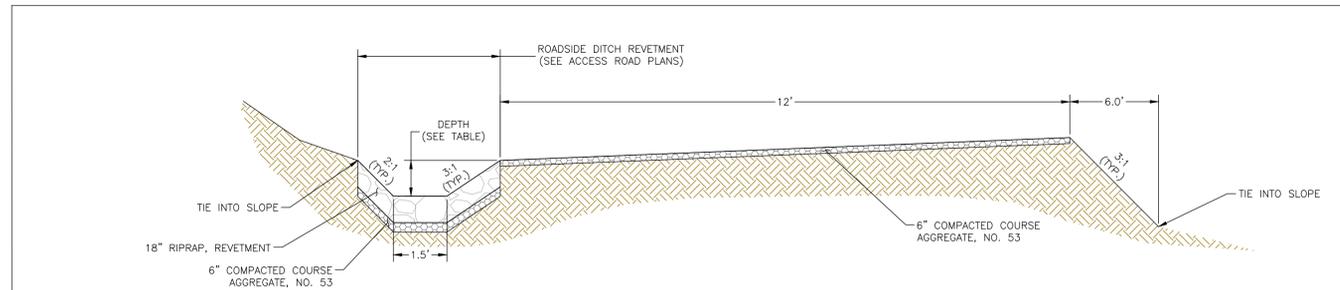
C TYPICAL TRAPEZOIDAL CHANNEL CROSS SECTION
SCALE: NONE

ID	START (STA.)	END (STA.)	[A] PROFILE SLOPE (%)	BOTTOM WIDTH (FT)	CHANNEL DEPTH (FT)	LENGTH (FT)	RIPRAP, CLASS 1 (TONS)	COMPACTED COURSE AGGREGATE, NO. 53 (TONS)
SOUTH	0+13.00	0+52.00	3.00%	8	1.5	39.0	79	27
SOUTH	4+10.00	4+49.00	3.00%	8	1.5	39.0	79	27
NORTH	2+60.00	2+99.00	3.00%	12	1.5	39.0	96	33
NORTH	5+35.00	5+74.00	0.00%	12	1.5	39.0	96	33
NORTH	7+00.00	7+39.00	3.00%	12	1.5	39.0	96	33
TOTAL							446	153

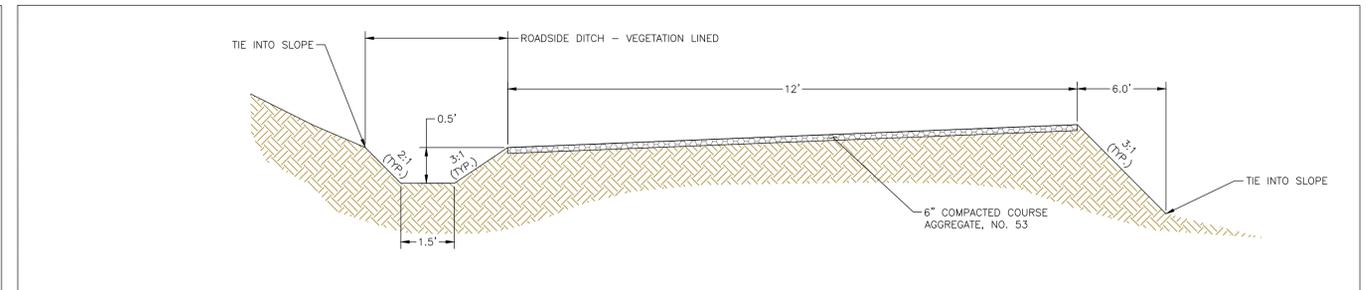
ID	START (STA.)	END (STA.)	[B] PROFILE SLOPE (%)	[C] PROFILE SLOPE (%)	BOTTOM WIDTH (FT)	CHANNEL DEPTH (FT)	LENGTH (FT)	RIPRAP, CLASS 1 (TONS)	COMPACTED COURSE AGGREGATE, NO. 53 (TONS)	
SOUTH	2+18.00	4+10.00	3.00%	25.00%	8	1.5	192.0	387	135	
SOUTH	5+76.57	8+86.97	3.00%	25.00%	8	1.5	310.4	625	218	
NORTH	1+91.00	2+60.00	1.45%	25.00%	12	1.5	69.0	170	59	
NORTH	3+78.00	5+35.00	3.00%	25.00%	12	1.5	157.0	386	133	
NORTH	5+81.68	7+00.00	0.00%	25.00%	12	1.5	118.3	291	101	
NORTH	7+45.00	8+54.69	3.00%	33.33%	12	1.5	109.7	270	93	
TOTAL									2129	739

ID	START (STA.)	END (STA.)	BOTTOM WIDTH (FT)	CHANNEL DEPTH (FT)	LENGTH (FT)	RIPRAP, REVETMENT (TONS)	COMPACTED COURSE AGGREGATE, NO. 53 (TONS)	
TRIBUTARY-1	0+00.00	0+97.00	2	1	97.0	71	34	
TRIBUTARY-2	0+00.00	0+47.00	2	1	47.0	35	16	
TRIBUTARY-3	0+00.00	1+11.00	2	1	111.0	82	39	
TRIBUTARY-4	0+00.00	1+55.00	2	1	155.0	114	54	
TRIBUTARY-5	0+00.00	0+55.00	2	1	55.0	40	19	
TOTAL							342	162

NOTE: RIPRAP REVETMENT SHALL BE PLACED TO A MINIMUM THICKNESS OF EIGHTEEN INCHES (18"). PLACEMENT SHALL BE COMPLETED IN TWO (2) UNIFORM LIFTS OF NINE INCHES (9") EACH TO ENSURE PROPER INTERLOCKING OF STONE AND MINIMIZE VOIDS.



D TYPICAL REVETMENT DITCH CROSS SECTION
SCALE: NONE



E TYPICAL VEGETATED DITCH CROSS SECTION
SCALE: NONE

ID	START (STA.)	END (STA.)	TOP WIDTH (FT)	BOTTOM WIDTH (FT)	CHANNEL DEPTH (FT)	LENGTH (FT)	RIPRAP, REVETMENT (TONS)	COMPACTED COURSE AGGREGATE, NO. 53 (TONS)		
ACCESS ROAD SURFACING	0+00	21+00.00	12	N/A	N/A	2100.0	0	793		
ACCESS ROAD DITCH REVETMENT	13+00.00	21+00.00	N/A	2	1	800.0	684	258		
TOTAL									684	1051



RECOMMENDED FOR APPROVAL: *Kelly Wilkinson* 12/17/2025 DATE
DESIGNED BY: KW
DRAWN BY: MR

DATE MADE: 07/2025
DATE REVISED: 12/17/2025

CONSTRUCTION DETAILS
STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF RECLAMATION

SCALE: NONE
PROJECT: E008-372

SHEET: 7 OF 8
SITE: 2376

