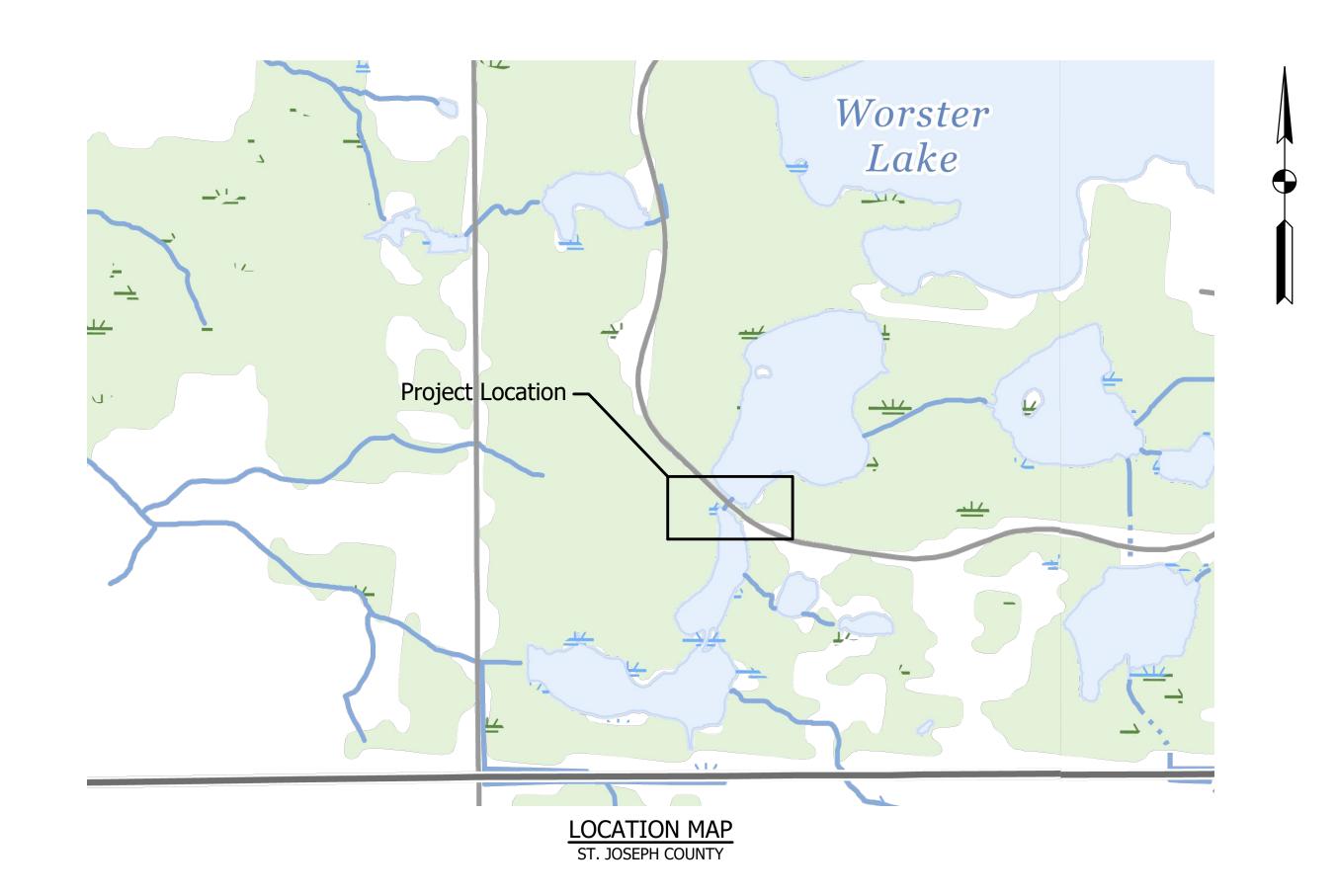
INDIANA DEPARTMENT OF ADMINISTRATION (IDOA) INDIANA DEPARTMENT OF NATURAL RESOURCES (IDNR)

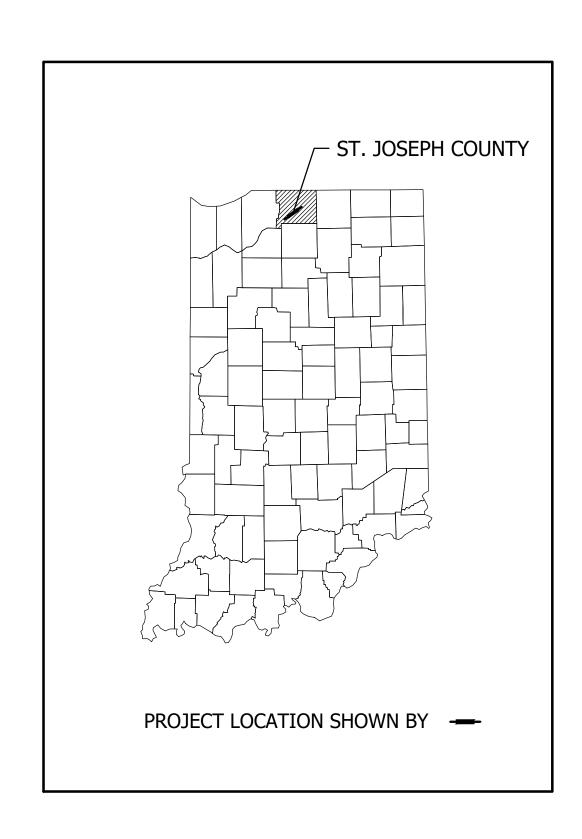
PROJECT No. ENG 2603736023 SPUD RUN CULVERT REPLACEMENT

LIBERTY TOWNSHIP, ST. JOSEPH COUNTY, INDIANA

SECTION 26, T-36-N, R-1-E

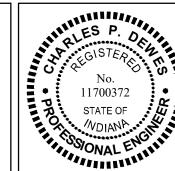
	DRAWING INDEX					
SHEET NO.	DESCRIPTION					
1	TITLE SHEET					
2	LEGEND AND GENERAL NOTES					
3	DEMOLITION PLAN					
4	PLAN AND PROFILE					
5	STRUCTURE LAYOUT					
6	CONSTRUCTION DETAILS					
7	EROSION CONTROL AND PUMP AROUND PLANS					
8	NORTH ACCESS ROAD IMPROVEMENTS ALTERNATIVE					

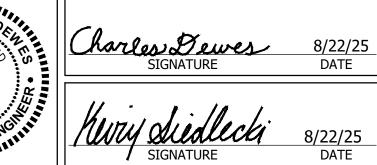


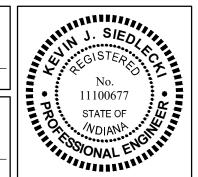


ISSUED FOR BID AUGUST 22, 2025









INDIANA DEPARTMENT OF NATURAL RESOURCES POTATO CREEK STATE PARK
SPUD RUN CULVERT REPLACEMENT
COVER SHEET

S	REVISIONS	HORIZONTAL SCALE	PROJECT NUMBER		
اد-		1" = 600'	ENG 26037360		
		VERTICAL SCALE			736023
					7 0 0 0 1 0
_	DRAWN: PJV	SURVEY BOOK	S	SHEET	TS .
	DIGWIN: FJV		_		
	CHECKED: CPD	DATE	1	OF	8
	CID	AUGUST 2025	_		

PUBLIC UTILITY EXISTING FEATURES LEGEND: The existing utilities listed below and shown on these plans represent the best information available as obtained on our Existing Benchmark surveys. This information does not relieve the contractor of the responsibility to be satisfied as to its accuracy and the **Existing Control Point** location of existing utilities. Existing Deciduous Tree Pipe Invert Ordinary High Water Mark ∇ Water Surface Elevation **EXISTING PATTERNS** — -> — -> — Existing Ditch Centerline ---- Existing Top of Bank/Toe of Slope Existing Vegetation Line

Contact: Cody Fletcher

cfletcher@kvremc.com

Alternate Contact: Justin Higgerson

American Electric Power Telecom

Alternate Contact: Tim Hovious

574-302-9786

8642 W U.S. 30 Wanatah, IN 46390

219-615-7348

8642 W U.S. 30 Wanatah, IN 46390

Contact: Brian Chute

bdchute@aep.com 8600 Smiths Mill Rd. New Albany, OH 43054

614-933-2853

765-677-6036

thhovious@aep.com

Marion, IN 46953

4504 S Lincoln Blvd., 01

<u>OWNER</u>	<u>UTILITY</u>	<u>OWNER</u>	<u>UTIL</u>
Comcast North	Cable TV	Choice Light, Inc.	Fiber C
		Contact: Brandon Liggett	
Mediacom, LLC (Auburn)	Cable TV	574-968-5342	
Mediacom, LLC (North Webster)		bliggett@choicelight.org	
Contact: Scott Brewer		130 S Main St.	
845-521-6898		South Bend, IN 46601	
sbrewer1@mediacomcc.com			
903 E Howard St.		Surf Internet	Fiber C
Pontiac, IL 61764		Contact: Ryan Coates	
		574-389-3100	
AT&T Distribution AT&T Indiana Utility Coordination	Communications	rcoates@surfinternet.com	
g09871@att.com		NIPSCO (South Bend, Laporte, Plymouth)	Gas
		Utility Coordination:	
Brightspeed	Communications	utilitycoordination@nisource.com	
Contact: Sonni Smith		Damage Prevention Screening Center:	
704-314-2662		cdcdamagepreventioncenter@nisource.com	
sonni.smith@brightspeed.com			
1120 S Tryon St., Suite 700		Crossroads Pipeline	Pipeline
Charlotte, NC 28203			
Alternate Contact: Tanya Palone		Town of North Liberty	Sewer,
980-376-1707		Contact: Jason Lambright	
tanya.palone@brightspeed.com		574-440-5808	
		nlutility@yahoo.com	
Marshall County R.E.M.C.	Electric	300 S Main St.	
Contact: Shawnda Wenino		North Liberty, IN 46554	
574-936-3161			
swenino@marshallremc.com		Frontier	Teleph
P.O. Box 250			
Plymouth, IN 46563			
NIPSCO (Laporte, Plymouth)	Electric		
Utility Coordination:			
utilitycoordination@nisource.com			
Damage Prevention Screening Center:			
cdcdamagepreventioncenter@nisource.com			
American Electric Power	Electric		
American Electric Power Contact: J. Jay Marlow	Electric		
	Electric		

Fiber Optic

GENERAL NOTES:

- 1. All items shown are existing unless otherwise indicated as required.
- 2. The contractor shall locate all underground utilities prior to starting work and shall conduct his operation in such manner as to insure that those utilities will not be disturbed.
- 3. The Contractor is responsible for locating all utilities private & public, which should include potholing with a hydro-excavation, etc. Any damaged utilities shall be repaired at the contractors expense.
- 4. Any damage to access roads, bridges, private or public property, and to existing structure not specified to be altered and caused by the contractor during construction shall be repaired at the expense of the
- 5. Prior to starting construction the contractor shall conduct check surveys on each aspect of the work as provided in the specifications. The results of the check surveys may affect the quantities.
- 6. If any errors become apparent, they shall be brought to the attention of the engineer prior to construction so that clarification or redesign may occur.
- 7. Contractor shall power wash all equipment upon arriving on site in order to decrease the spread of any invasive species.
- 8. Contractor shall not remove trees between April 1st to October 1st due to date restrictions with the endangered Indiana bat species.
- 9. Contractor shall seed and mulch all disturbed areas within the construction limits unless noted otherwise.
- 10. INDOT Standard Specification (latest edition) shall be used with these plans.

SURVEY NOTES:

- 1. Unless noted otherwise, all bearings, distances, areas, and coordinates shown hereon are based upon the Indiana State Plane Coordinate System's East Zone (InSPC-1301) per NAD 83 (2011) Epoch 2010.00 and are reported in U.S. Survey Feet and decimal parts thereof.
- 2. Unless noted otherwise, all elevations shown hereon are based upon the North American Vertical Datum of 1988 (NAVD 88) as established on National Geodetic Survey (NGS) marker M 154 (PID ME0054) elevation; 729.54 (NAVD 88).
- 3. Equipment Used:
 - a. Trimble R10 GNSS Receiver (3mm // 8mm+1ppm RMS)
 - b. Trimble DiNi Digital Level (0.7mm/km)
 - c. Trimble S6 Robotic Total Station (3" 2mm+2ppm)
- 4. No underground utilities were marked or surveyed. Absence of underground utilities was verified by Indiana 811 under the following ticket number: 2407243140.
- 5. The topographic survey was completed July 24-25, 2024.

HORIZONTAL CONTROL (INSPC – EAST ZONE // U.S. FEET)								
Id.	Id. Northing Easting Latitude Longitude Elevation (NAVD 88) Marker							
CP1	2292754.4625	131684.7088	N41°32'25.82460"	W86°23'02.70097"	764.28	½"x18" Rebar w/ Cap Stamped 'LAWSON-FISHER'		
CP2	CP2 2292321.9996 132187.2500 N41°32'21.59337" W86°22'56.04580" 753.62 ½"x18" Rebar w/ Cap Stamped 'LAWSON-FISHER'							
Control point	Control point elevations are provided for reference. It should be understood that the markers used are subject to vertical movement due to frost							

Control point elevations are provided for reference. It should be understood that the markers used are subject to vertical movement due to frost heave, vehicle movements and other environmental factors. All horizontal control point elevations are superseded by bench mark elevations.

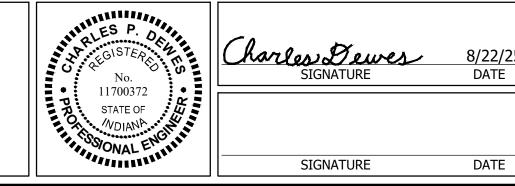
VERTICAL CONTROL (NAVD 88)							
Id.	Elevation (NAVD 88)	Remarks	Northing	Easting	Latitude	Longitude	
ТВМ А	752.69	Mag Spike in Asph. w/ Washer Stamped 'Lawson-Fisher'	2292399.9	132090.1	N41°32'22.36"	W86°22'57.33"	
ТВМ В	754.80	Mag Spike in Asph. w/ Washer Stamped 'Lawson-Fisher'	2292275.6	132208.6	N41°32'21.14"	W86°22'55.76"	

Bench mark horizontal coordinates are provided for reference. It should be understood that the method and means used to establish the horizontal coordinates of the bench marks is not the same class and standard as those used to establish the horizontal control points. The coordinates only serve as an aid in locating the marks and are superseded by horizontal control point coordinates.



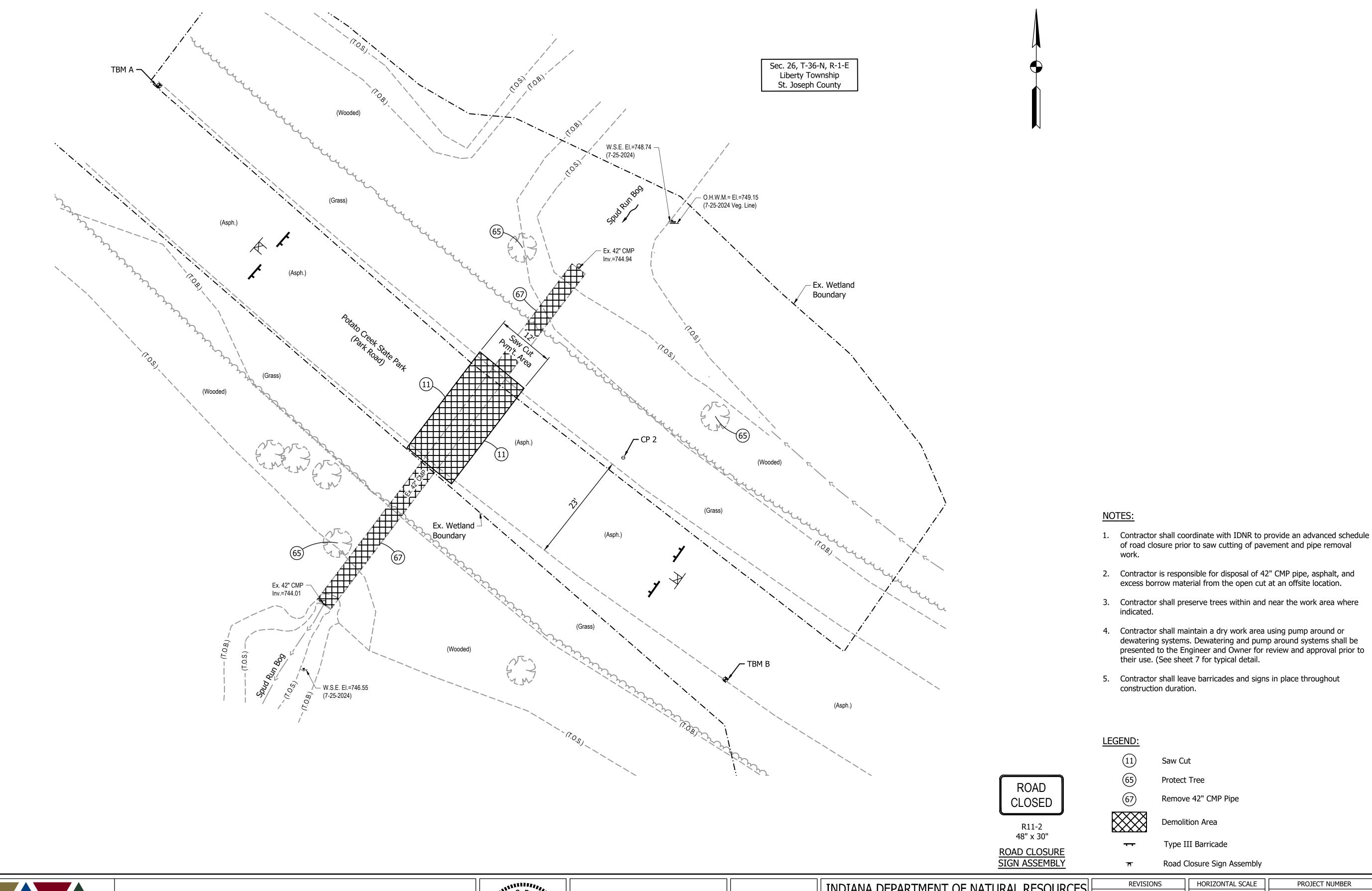
PH. (574) 234-3167

----- Existing Wetland



INDIANA DEPARTMENT OF NATURAL RESOURCES	REVISIONS
POTATO CREEK STATE PARK	
SPUD RUN CULVERT REPLACEMENT	
	DRAWN: PJV
LEGEND AND GENERAL NOTES	

S	REVISIONS	HORIZONTAL SCALE	PROJECT NUMBER
3		VERTICAL SCALE	ENG 2603736023
_	DRAWN: PJV	SURVEY BOOK	SHEETS
		DATE) OF 8
	CHECKED: CPD	AUGUST 2025	



LAWSON-FISHER ASSOCIATES P.C.

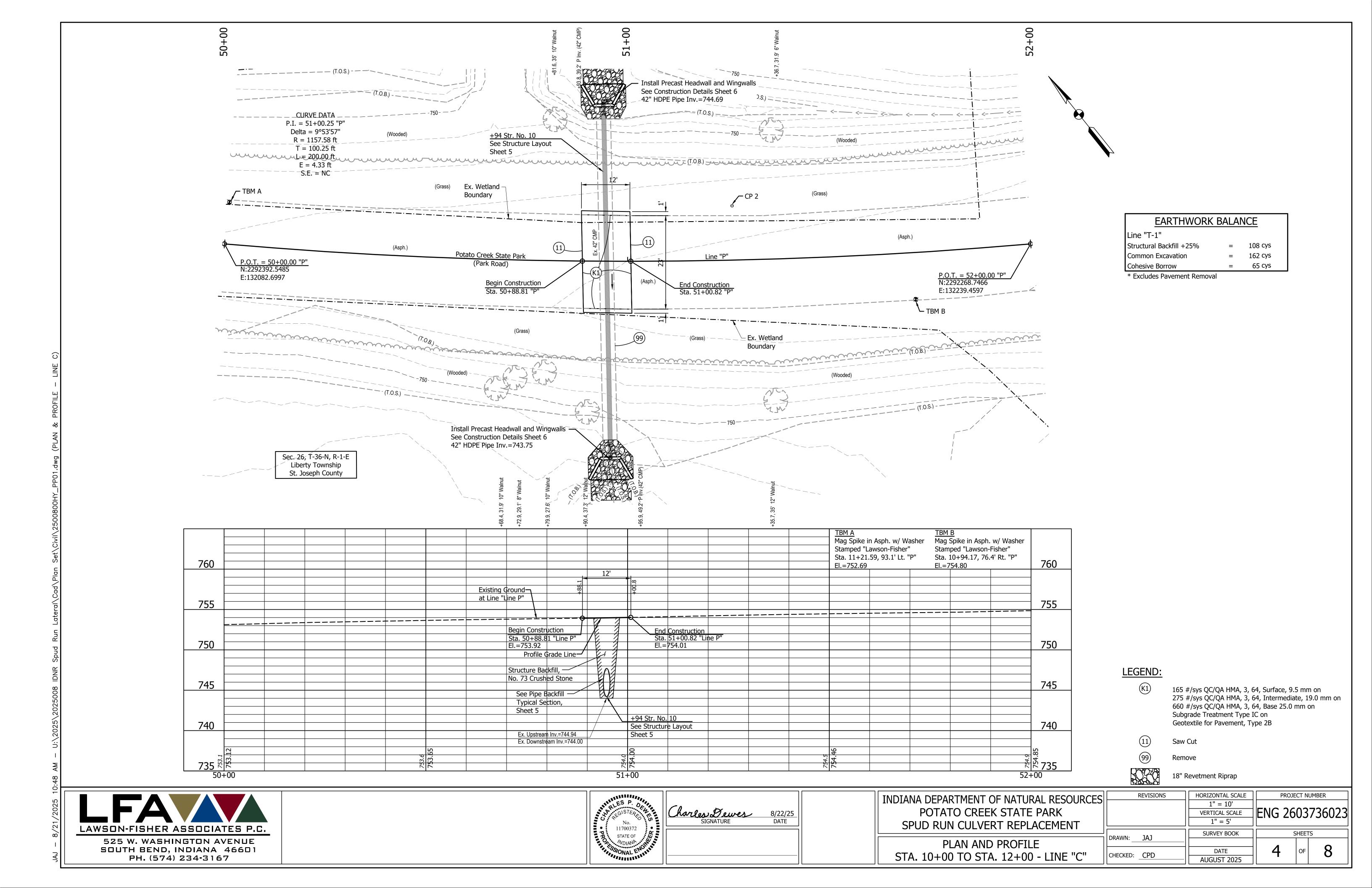
525 W. WASHINGTON AVENUE
SOUTH BEND, INDIANA 46601
PH. (574) 234-3167

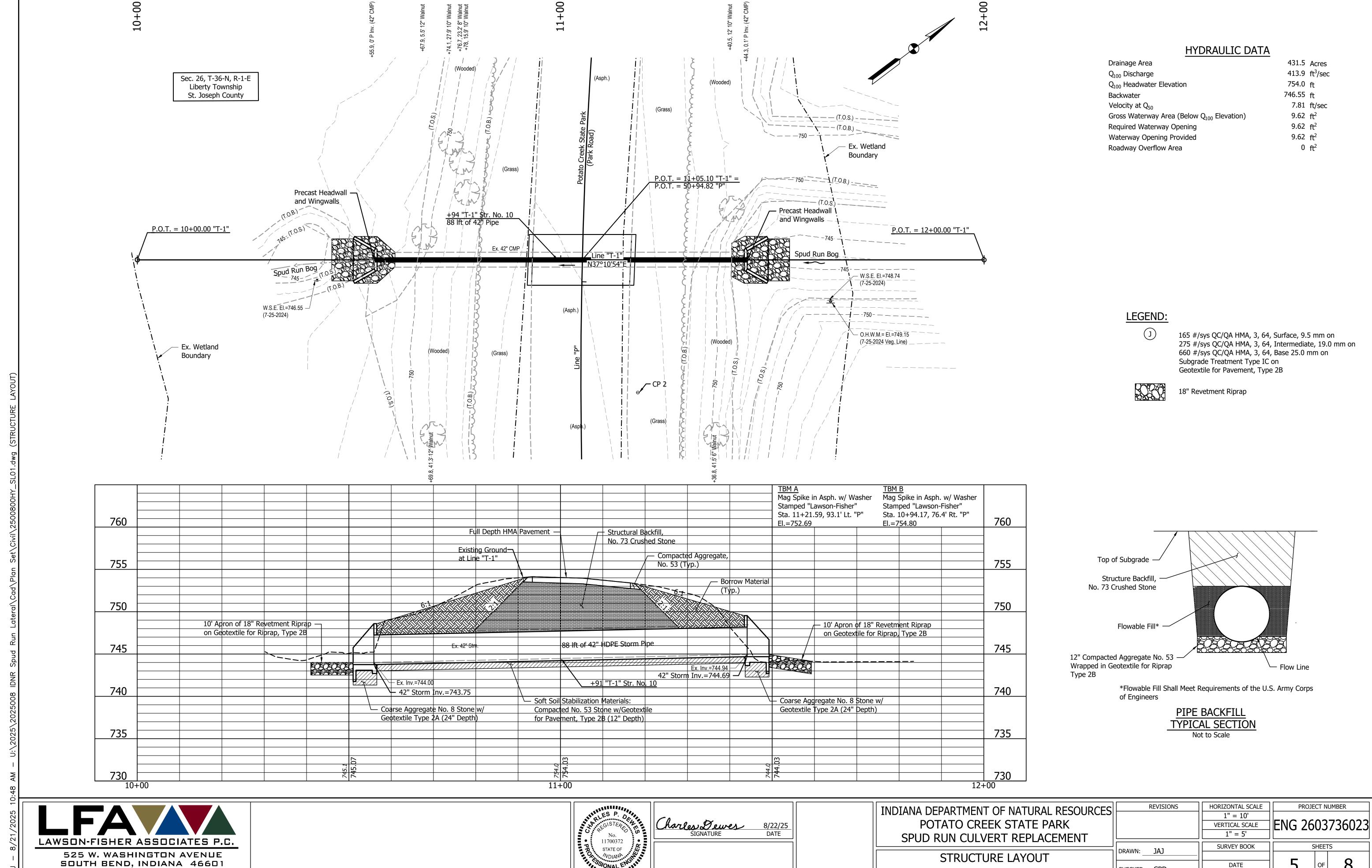


Charles Dewes 8/22/25
SIGNATURE DATE

INDIANA DEPARTMENT OF NATURAL RESOURCES
POTATO CREEK STATE PARK
SPUD RUN CULVERT REPLACEMENT
DEMOLITION PLAN

	REVISIONS	HORIZONTAL SCALE	PROJE	CT N	UMBER
ار		1" = 10'			
		VERTICAL SCALE	ENG 26037360		
╛	DRAWN: JAJ	SURVEY BOOK	S	HEET	ΓS
	DRAWN. JAJ				
	CHECKED: CPD	DATE	3	OF	8
		AUGUST 2025			





CHECKED: CPD

AUGUST 2025

PH. (574) 234-3167

NOTES:

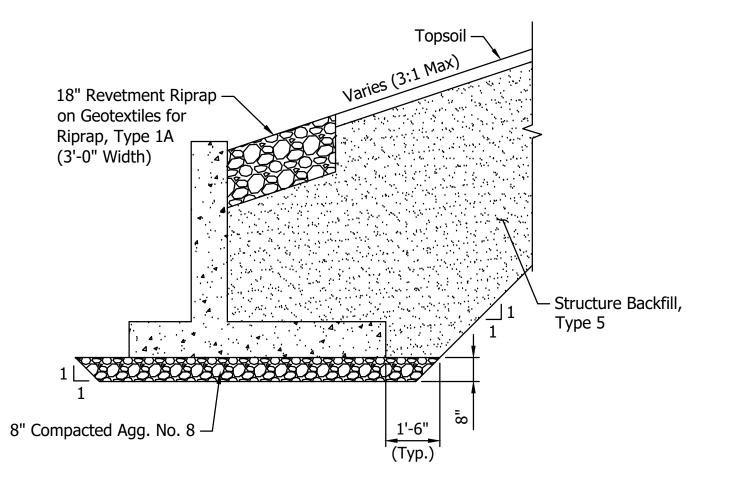
- Composition (per cubic yard):
 Portland Cement (Type I or II): ≥ 100 Lbs (ASTM C150, low-alkali)
 Or GGBFS: per ASTM C989 (Grade 100 or 120) as alternative
 Fly Ash: ≥ 275 Lbs (ASTM C618, Class N, C, or F; avoid Class C
 with reactive aggregates)
 Fine Aggregate (sand, SSD): ≈ 2,795 Lbs (ASTM C33);
 reactive-aggregate test needed if ≥ 200 cy (ASTM C1260,
 <0.10% expansion at 16 days)
 Water: ≤ 370 Lbs (potable)
 Air-Entraining Agent: ≥ 2 Oz (ASTM C260)
 Water-Reducing Admixture (Type A or F): as needed for
- workability (ASTM C494)

 2. Fresh Properties:
 Consistency: Batter-like; test with 3"×6" cylinder, expect ~8" spread, no segregation
- Hardened Properties:Compressive strength: ~100 psi at 28 days
- Quality Control & Testing:
 Compliance with ASTM standards (C150, C618, C33, C260, C494)
 When using large quantities: ASTM C1260 for reactivity
 Field sampling and testing for consistency and strength
- Workmanship:
 Mix and place per site conditions using standard equipment;
 ensure proper flow and settlement

| Si-O" | 4'-3" | Top of Headwall | Top (D.S.) | Wingwall "A" (U.S.) | Wingwall "C" (D.S.) | Top of Headwall | Top | Top of

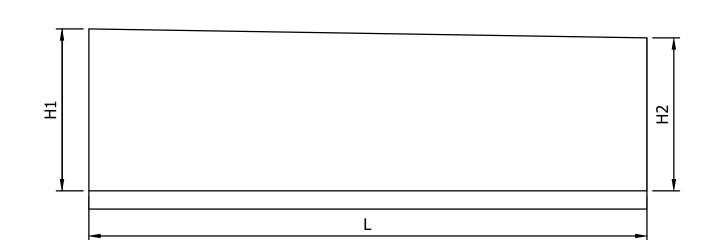
PIPE CULVERT HEADWALL
FRONT ELEVATION VIEW
(SAME UPSTREAM AND DOWNSTREAM)

Scale: $\frac{3}{4}$ " = 1'-0"

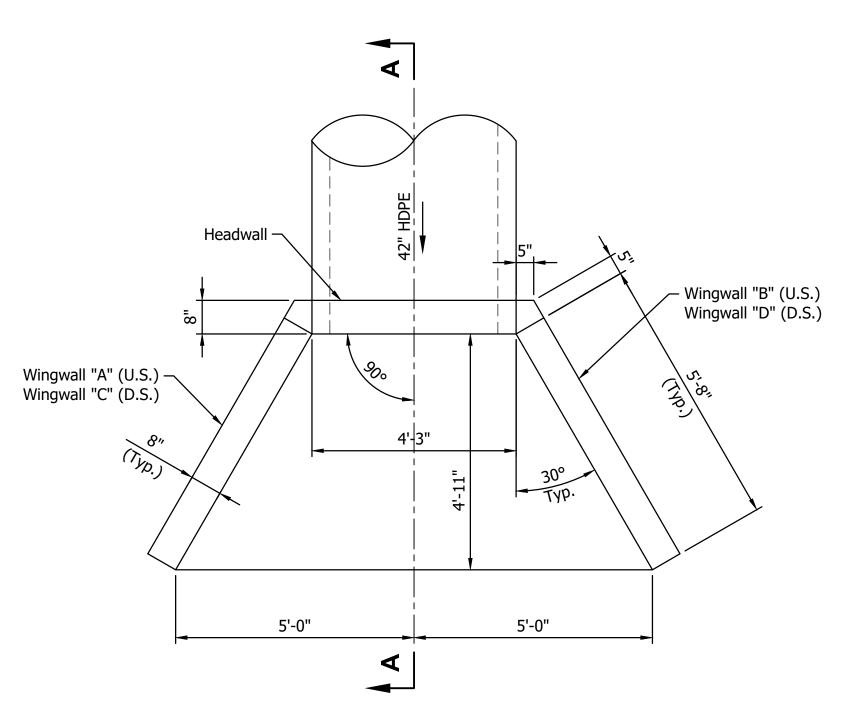


Scale: $\frac{3}{8}$ " = 1'-0"

WINGWALL BACKFILL DETAIL Scale: 3/8" = 1'-0"



WINGWALLS					
DESIGNATION	AREA (SF)	H1 (FT)	H2 (FT)	L (FT)	
"A"	16.5	4.8	1.8	5	
"B"	16.5	4.8	1.8	5	
"C"	16.5	4.8	1.8	5	
"D"	16.5	4.8	1.8	5	
TOTAL	65.8				

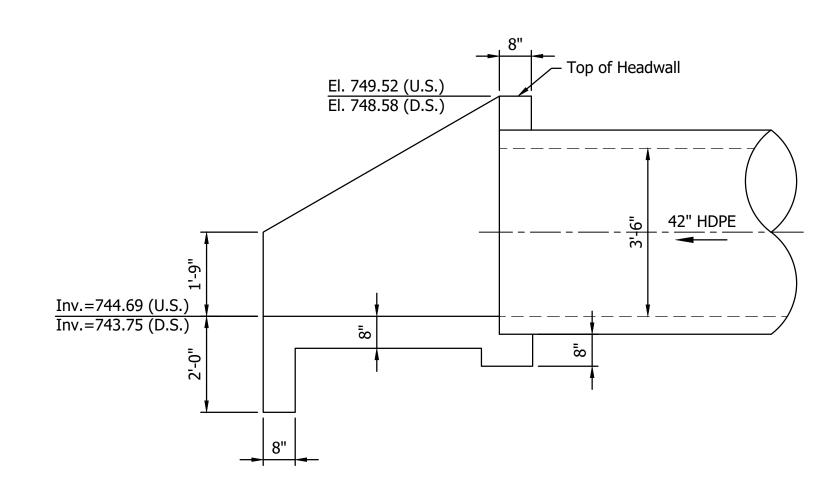


PIPE CULVERT HEADWALL

PLAN VIEW

(SAME UPSTREAM AND DOWNSTREAM)

Scale: ½" = 1'-0"



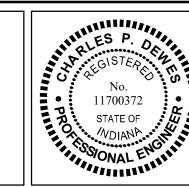
SECTION A-A

(SAME UPSTREAM AND DOWNSTREAM)

Scale: ½" = 1'-0"

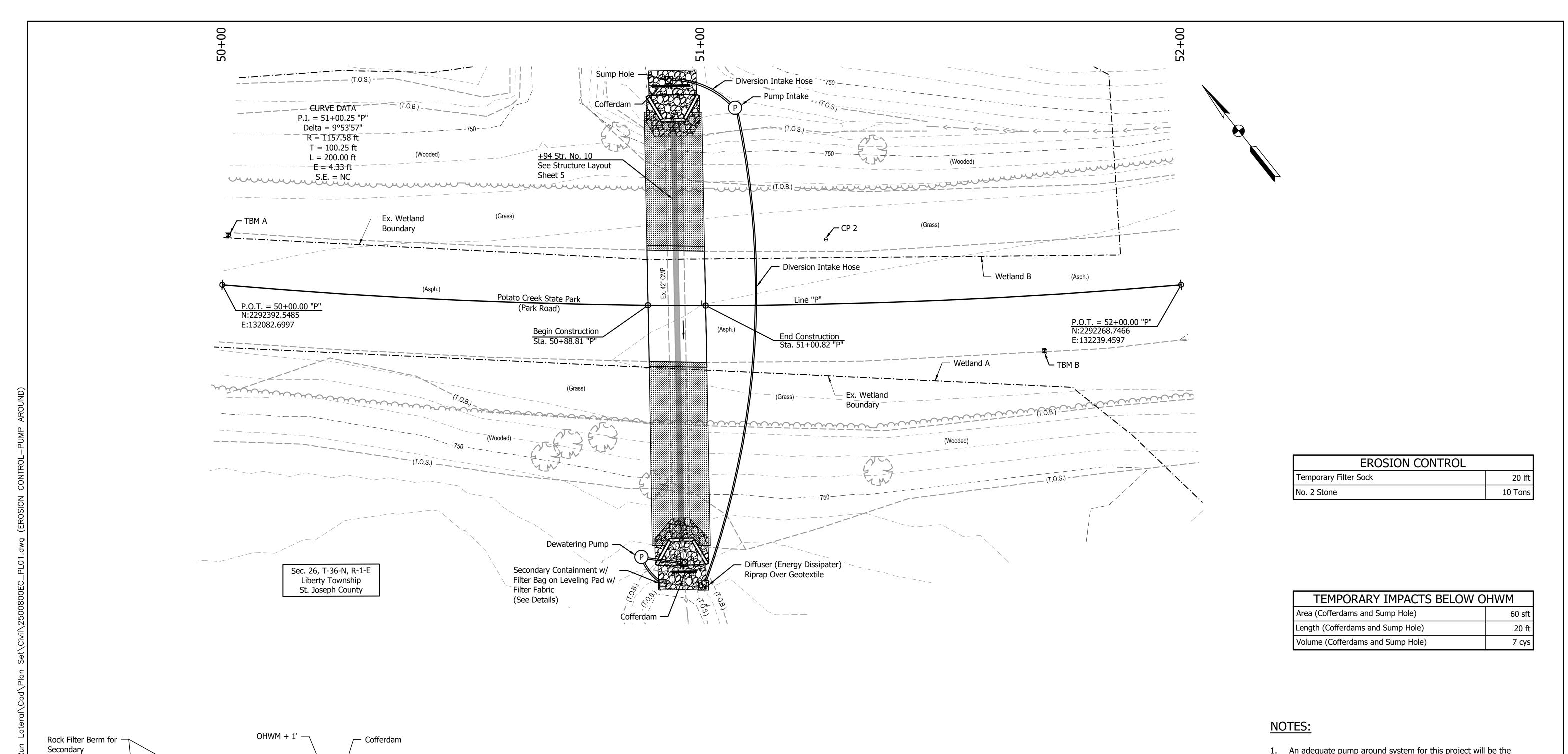


PH. (574) 234-3167



Charles Dewes SIGNATURE	8/22/25 DATE
SIGNATURE	DATE

INDIANA DEPARTMENT OF NATURAL RESOURCES	REVISIONS	HORIZONTAL SCALE AS NOTED	PROJECT NUMBER
POTATO CREEK STATE PARK			ENG 2603736023
SPUD RUN CULVERT REPLACEMENT		SURVEY BOOK	SHEETS
CONSTRUCTION DETAILS	DRAWN: JAJ	DATE	6 of 8
	CHECKED: CPD	AUGUST 2025	



- 1. An adequate pump around system for this project will be the responsibility of the Contractor. This detail provides a typical pump around system. Contractor may use alternative means and methods, but shall submit dewatering and/or pump around plan to Owner and Engineer for review and approval prior to implementation.
- 2. Duration of use: 30 days.

LEGEND:

Erosion Control Blanket and Seeding Mix

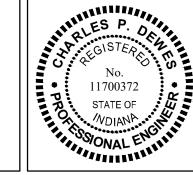
18" Revetment Riprap

—FS— Filter Sock



Filter

Containment



ROCK FILTER BERM DETAIL

Not to Scale

- Dewatering Intake Hose

3'-0" x 3'-0"

(Approx.)

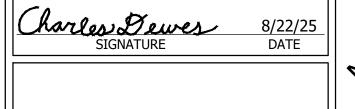
Intake Hose Positioned so -That Intake Does not Rest

on Bottom of Sump Pit

DEWATERING & COFFERDAM / SUMP HOLE DETAIL

Not to Scale

Channel Flow Line

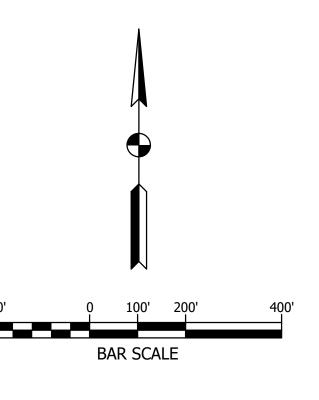




INDIANA DEPARTMENT OF NATURAL RESOURCES POTATO CREEK STATE PARK	
SPUD RUN CULVERT REPLACEMENT	L
EROSION CONTROL	[
AND PUMP AROUND PLAN	c

TEC	REVISIONS	HORIZONTAL SCALE	PROJECT NUMBER		
LO		1" = 10'			
		VERTICAL SCALE	ENG 26	03	736023
	DRAWN: JAJ	SURVEY BOOK	SHEETS		TS .
	DRAWN. JAJ				
	CHECKED: CPD	DATE	7	OF	8
	CHECKED. CPD	AUGUST 2025	'		





6" INDOT No. 73 Coarse Aggregate

6" INDOT No. 53 Coarse Aggregate

2.0%

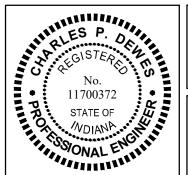
2.0%

Geogrid Type 1B

Regrade and Smooth Existing Haul Road Aggregate

DETAIL 1
GRAVEL HAUL ROAD
Not to Scale





Charles Dewes SIGNATURE	8/22/25 DATE	

POTATO CREEK STATE PARK	INDIANA DEPARTMENT OF NATURAL RESOURCES
	POTATO CREEK STATE PARK
SPUD RUN CULVERT REPLACEMENT	SPUD RUN CULVERT REPLACEMENT

<u> </u>	
NOF	RTH ACCESS ROAD IMPROVEMENTS
	ALTERNATE

S	REVISIONS	HORIZONTAL SCALE	PROJE	CT N	UMBER
٥		1" = 200'	ENIO 26	^^	726022
		VERTICAL SCALE	ENG 26	03	/36023
၂	DRAWN: JAJ	SURVEY BOOK	SHEETS		
		DATE	0	0.5	0
	CHECKED: CPD	AUGUST 2025	0	OF	O
		7.00031 2023		<u> </u>	