



INDIANA DEPARTMENT OF ADMINISTRATION PUBLIC WORKS DIVISION

PUBLIC WORKS PROJECT NO. ENG2603767100 DNR - DEAM LAKE

CLARK COUNTY, INDIANA
2026



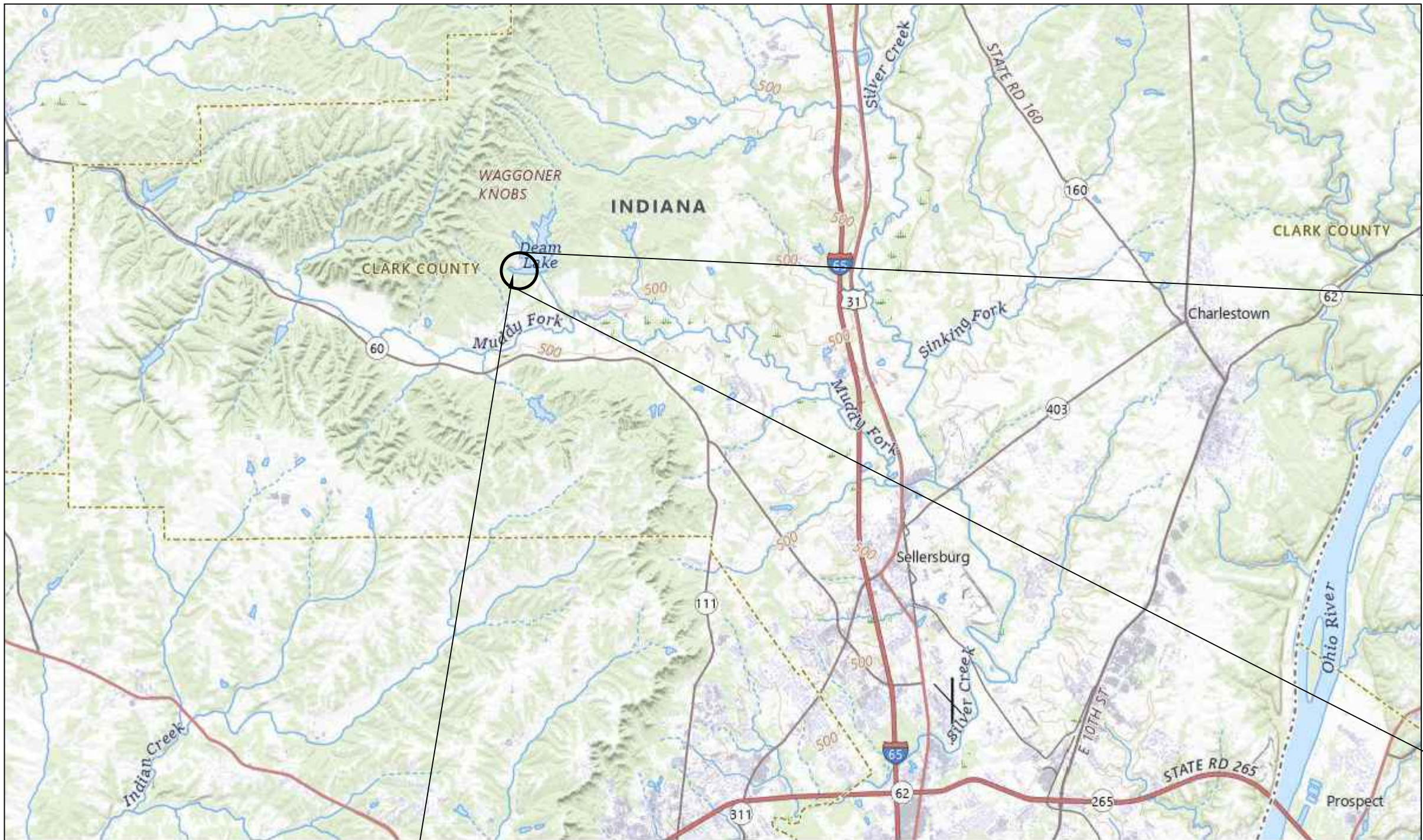
UTILITY NOTES

- NOTE 1: All utilities depicted are at "Quality Level B" and "Quality Level C".
- NOTE 2: "Quality Level B" utility locates are based on markings provided by others. There is no guarantee as to the accuracy or completeness of these markings. Existing utility depths shown on profiles and cross sections are shown for reference purposes only and are based on what may be considered standard bury depths. The exact depth of existing utilities is uncertain and should be field verified by the contractor as needed.
- NOTE 3: "Quality Level C" utility locates are based on visible surface features which have been surveyed such as hydrants, valve boxes, meter boxes or other items related to a utility.
- NOTE 4: Utility quality level designations are based on ASCE 38-02 (Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data).

UTILITY COMPANY INFORMATION

CLARK COUNTY REMC
7810 IN-60
SELLERSBURG, IN 47172
CONTACT: GRANT KALKBRENNER
OFFICE: 812-248-7528
CELL: 812-946-0110

ATT DISTRIBUTION
5858 NORTH COLLEGE AVE
INDIANAPOLIS, IN 46220
317-352-4007



PROJECT LOCATION

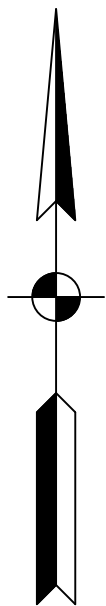
This project A is located on Deam Lake Road approximately 1.4mi North of the intersection of Deam Lake Rd & SR 60, project B is located on Deam Lake Road approximately 2.3mi North of the intersection of Deam Lake Rd & SR 60 in Clark County, Indiana.

NOT TO SCALE

PLANS PREPARED BY:



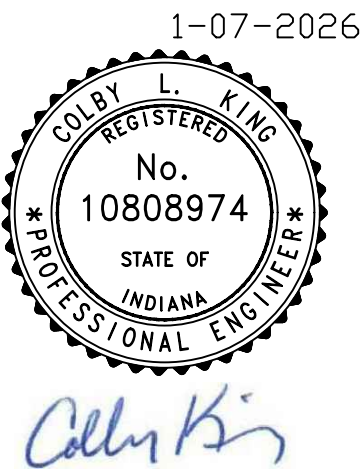
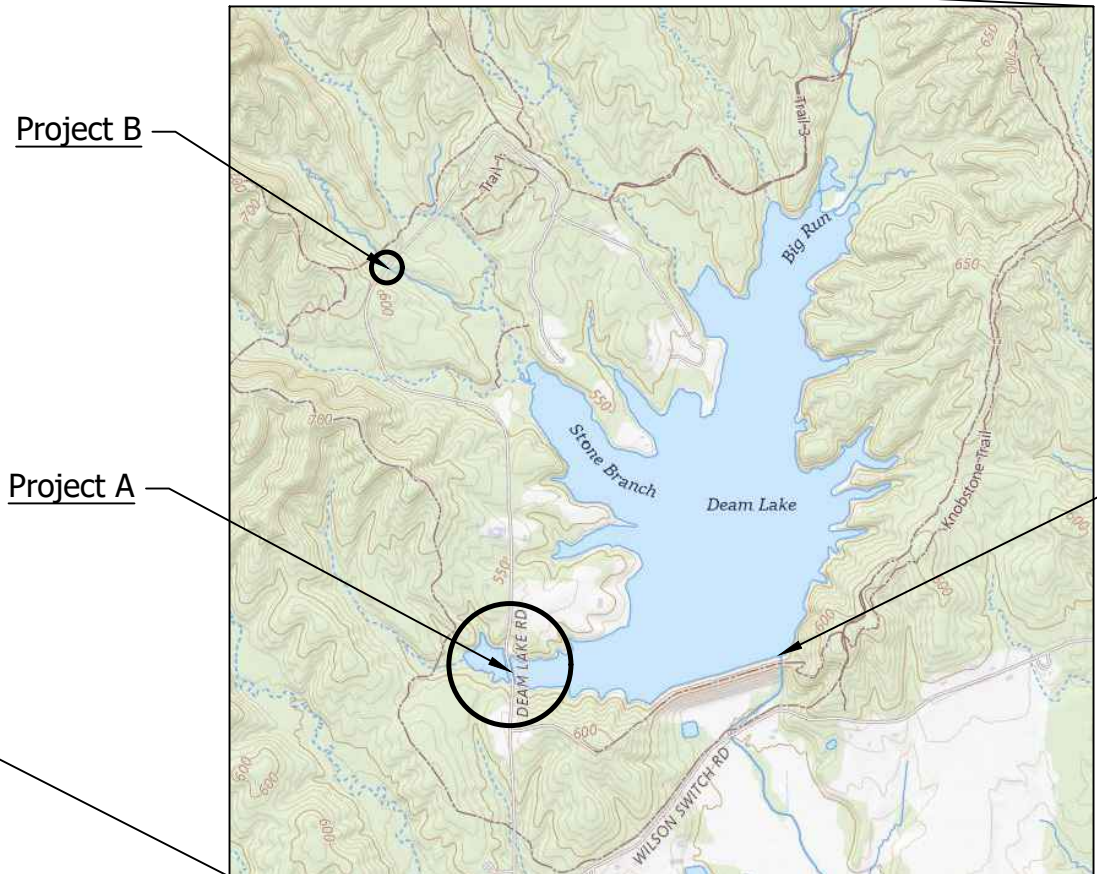
72 Henry Street,
North Vernon, Indiana 47265
Telephone: 812-346-2045



| Sheet List Table | |
|------------------|--|
| Sheet Number | Sheet Title |
| 1 | TITLE SHEET |
| 2 | MAINTENANCE OF TRAFFIC |
| 3 | PROJECT A - CAUSEWAY PLAN & PROFILE |
| 4 | PROJECT A - CAUSEWAY GENERAL PLAN |
| 5 | PROJECT B - SLIP-LINE GENERAL PLAN |

GENERAL NOTES:

1. SEE PLAN SET 2 FOR EXISTING DRAWDOWN OUTLET STRUCTURE



PREPARED FOR: INDIANA DEPARTMENT OF NATURAL RESOURCES
PROJECT DESCRIPTION: DNR DEAM LAKE
FILE NUMBER: 2413468
DATE: JANUARY 7, 2026
DESIGN PHASE: BIDDING PLANS



MAINTENANCE OF TRAFFIC - CAUSEWAY CULVERT

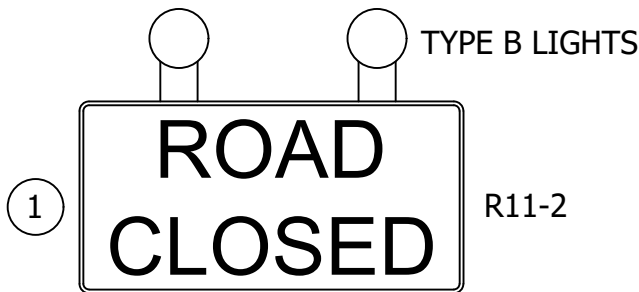
QUANTITIES

| | |
|--------------------------------|--------|
| BARRICADE, TYPE IIIB | 48 LFT |
| ROAD CLOSURE SIGN ASSEMBLY (1) | 2 |

LEGEND

| | |
|--|--|
| CONSTRUCTION SIGN BARRICADE, TYPE IIIB | |
|--|--|

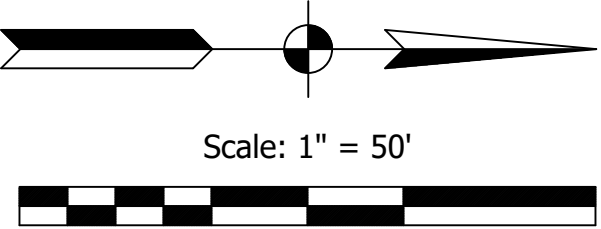
ROAD CLOSURE SIGN ASSEMBLIES



- GENERAL NOTES:
1. Refer to INDOT Standard Drawings and Specifications for additional traffic control information.
 2. The Field Engineer or DNR may adjust locations of traffic control devices as conditions warrant.

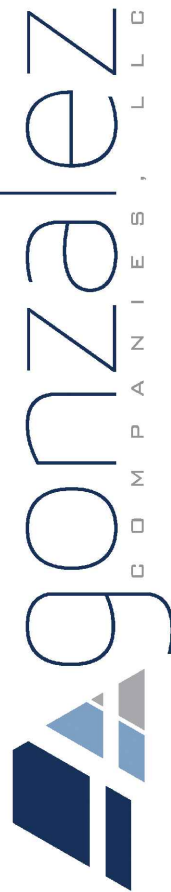
GENERAL NOTES:

1. Existing causeway will be closed for the replacement of the culvert. Closure of the road shall be no earlier than November 1, 2026 and no later than April 1, 2027. Length of closure shall be no longer than 7 days.
2. As part of the de-watering plan, Contractor shall lower the lake by removing existing (5) Stop Logs down to concrete (elev: 530.09); located at the lake outlet structure. Drawdown is limited to 0.5-1.0 ft/day. Coordination will be required between contractor and owner for planned closure AND de-watering schedule.



GENERAL NOTE:
All construction to meet or exceed all state, local, and federal codes & requirements, including but not limited to current INDOT, ISBH, IDEM, OSHA, local requirements & codes. The drawings & specs. that make up the work of this project are interrelated & dependent on every other drawing and spec. section. The contractor shall review all other specs., drawing & addendum (if applicable) to coordinate all work that relates to this project. If an item is drawn or specified on any spec. section or drawing, it shall be as if it were part of this work and shall be provided for in the contract.

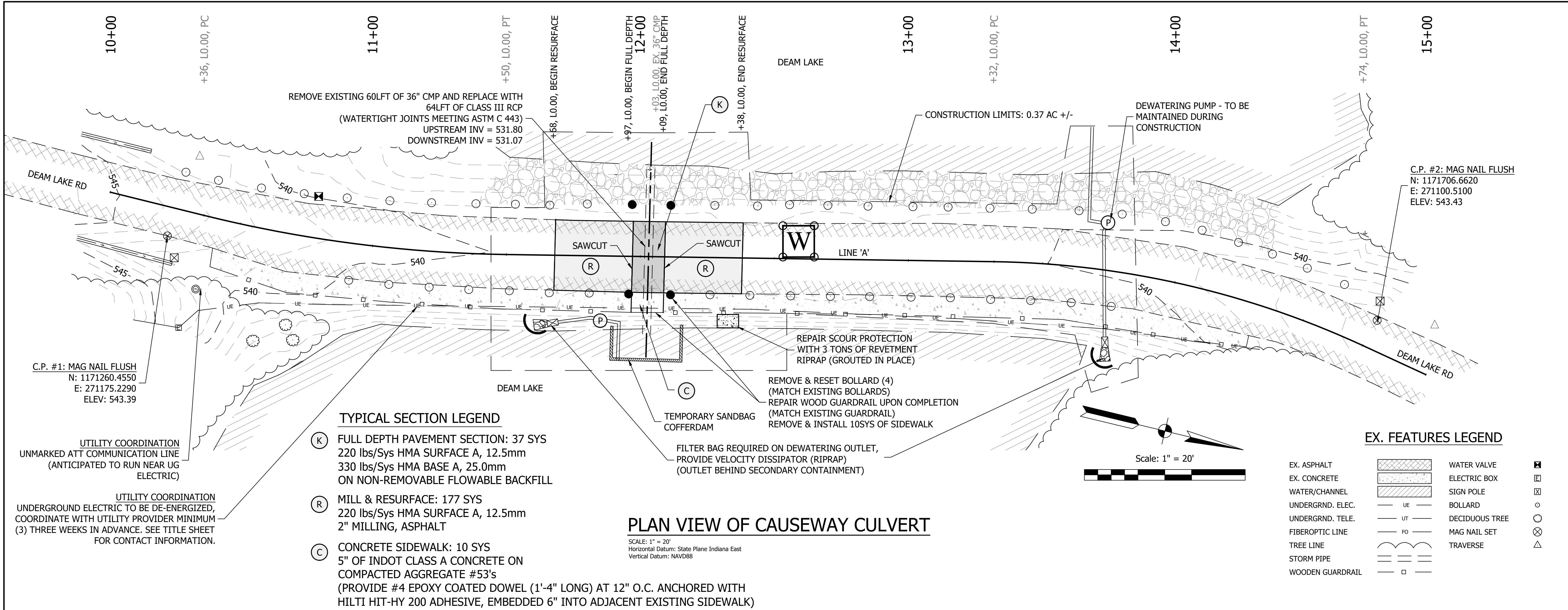
- NOTES:
1. This sheet is to be: ANSI D 22" X 34"



72 Henry Street,
North Vernon, Indiana 47265
Telephone: 812-346-2045

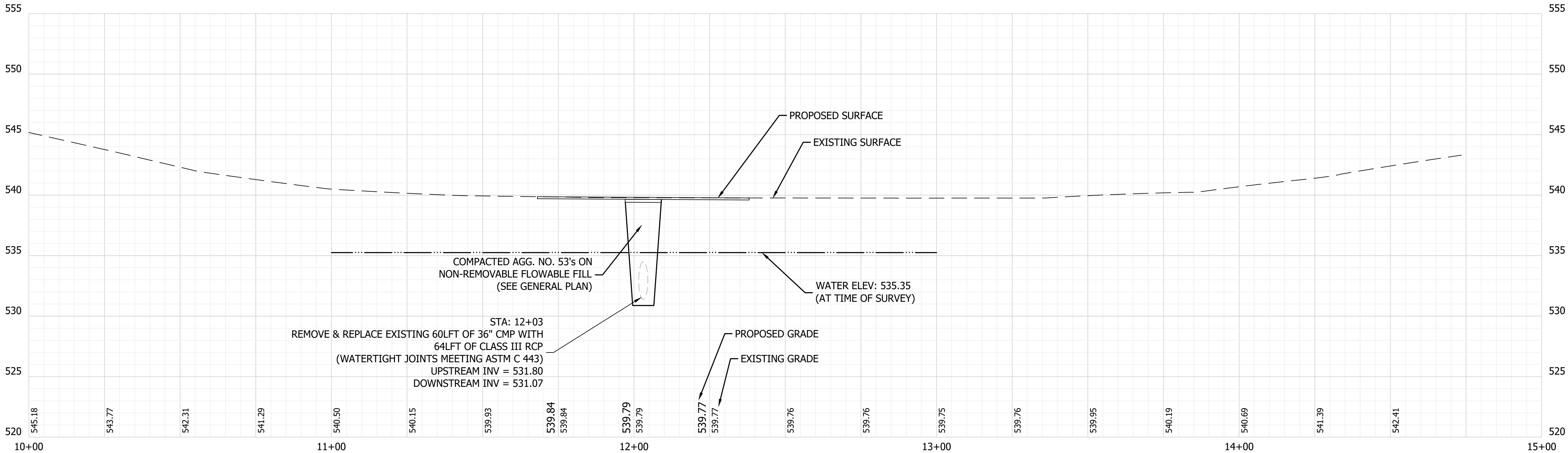


| | | |
|--|----------|------|
| SCALE: 1" = 20' | | |
| DRAWN BY: ARC | | |
| CHECKED BY: CLK | | |
| DATE: JANUARY 7, 2026 | | |
| Revision | Drawn By | Date |
| | | |
| | | |
| | | |
| FILE NO: 2413468 | | |
| CLIENT NAME: INDIANA DEPARTMENT OF NATURAL RESOURCES | | |
| PROJECT DESCRIPTION: DNR DEAM LAKE | | |
| SHEET TITLE: MAINTENANCE OF TRAFFIC | | |
| DESIGN PHASE: BIDDING PLANS | | |
| SHEET NUMBER: 2 | | |



PLAN VIEW OF CAUSEWAY CULVERT

SCALE: 1" = 20'
Horizontal Datum: State Plane Indiana East
Vertical Datum: NAVD88

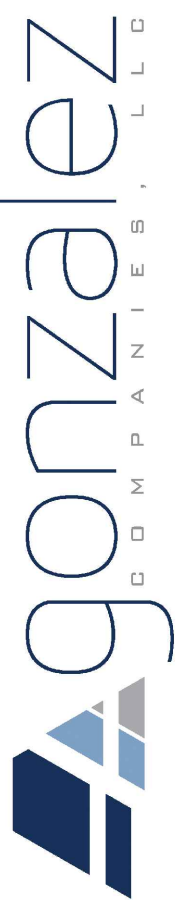


PROFILE VIEW OF CAUSEWAY LINE 'A'

SCALE: H: 1" = 20'
V: 1" = 5'

GENERAL NOTE:
All construction to meet or exceed all state, local, and federal codes & requirements, including but not limited to current INDOT, ISBH, IDEM, OSHA, local requirements & codes. The drawings & specs. that make up the work of this project are interrelated & dependent on every other drawing and spec. section. The contractor shall review all other specs., drawing & addendum (if applicable) to coordinate all work that relates to this project. If an item is drawn or specified on any spec. section or drawing, it shall be as if it were part of this work and shall be provided for in the contract.

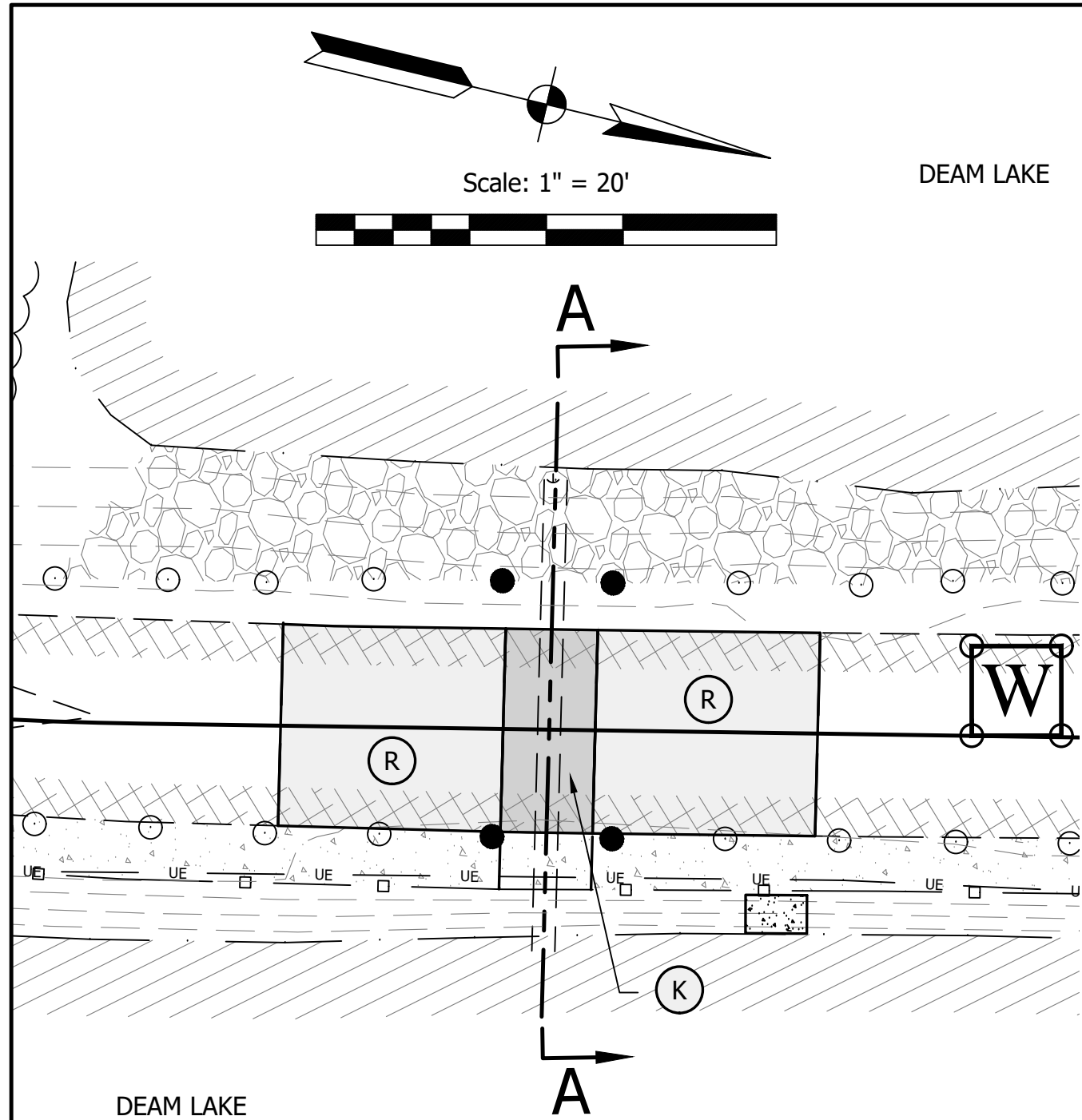
NOTES:
1. This sheet is to be: ANSI D 22" X 34"



72 Henry Street,
North Vernon, Indiana 47265
Telephone: 812-346-2045



| | | |
|--|----------|------|
| SCALE: 1" = 20' | | |
| DRAWN BY: ARC | | |
| CHECKED BY: CLK | | |
| DATE: JANUARY 7, 2026 | | |
| Revision | Drawn By | Date |
| | | |
| | | |
| FILE NO: 2413468 | | |
| CLIENT NAME: INDIANA DEPARTMENT OF NATURAL RESOURCES | | |
| PROJECT DESCRIPTION: DNR DEAM LAKE | | |
| SHEET TITLE: PROJECT A - CAUSEWAY PLAN & PROFILE | | |
| DESIGN PHASE: BIDDING PLANS | | |
| SHEET NUMBER: 3 | | |



PLAN VIEW OF CAUSEWAY CULVERT

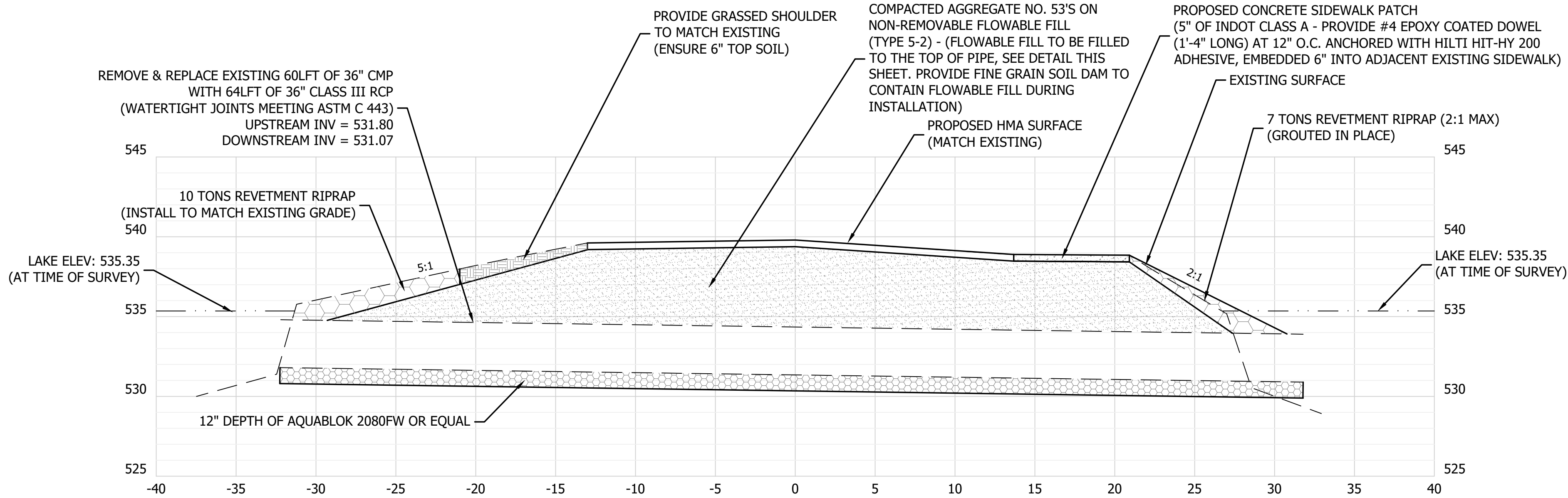
SCALE: 1" = 20'

EX. FEATURES LEGEND

| | | | |
|------------------|----|----------------|--|
| EX. ASPHALT | | WATER VALVE | |
| EX. CONCRETE | | ELECTRIC BOX | |
| WATER/CHANNEL | | SIGN POLE | |
| UNDERGRND. ELEC. | UE | BOLLARD | |
| UNDERGRND. TELE. | UT | DECIDUOUS TREE | |
| FIBEROPTIC LINE | FO | MAG NAIL SET | |
| TREE LINE | | TRAVERSE | |
| STORM PIPE | | | |
| WOODEN FENCE | | | |

TYPICAL SECTION LEGEND

- (K) FULL DEPTH PAVEMENT SECTION: 37 SYS
220 lbs/Sys HMA SURFACE A, 12.5mm
330 lbs/Sys HMA BASE A, 25.0mm
ON NON-REMOVABLE FLOWABLE BACKFILL
- (R) MILL & RESURFACE: 177 SYS
220 lbs/Sys HMA SURFACE A, 12.5mm
ON 2" MILLING, ASPHALT

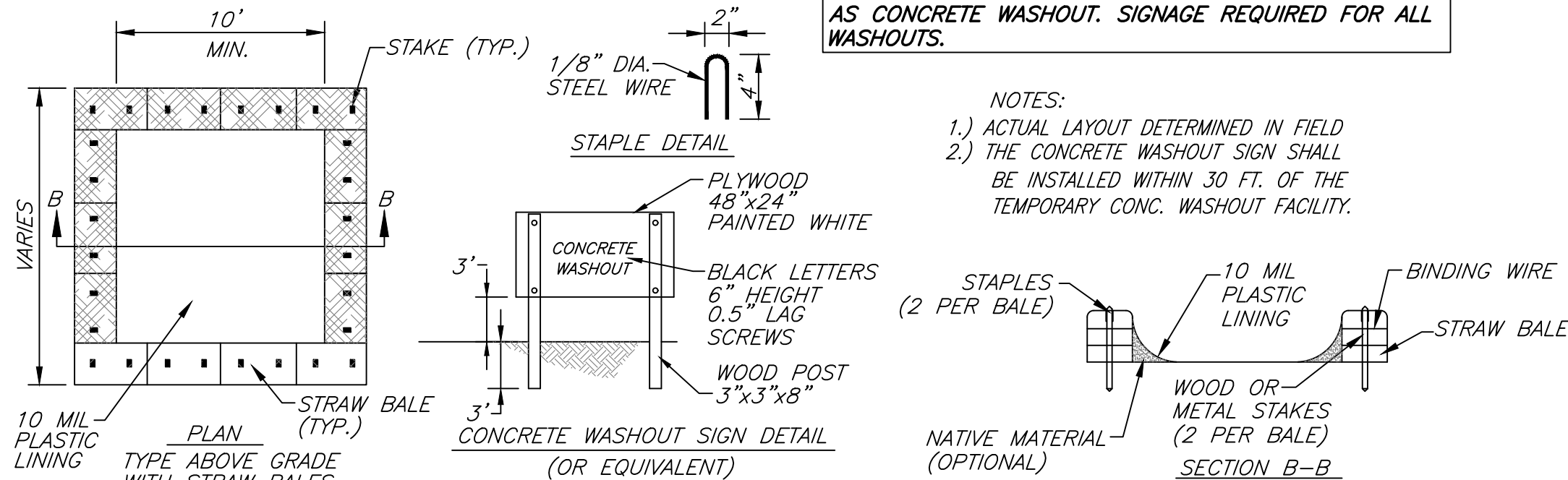


A CROSS-SECTION OF CAUSEWAY CULVERT

SCALE: H: 1" = 5'
V: 1" = 5'

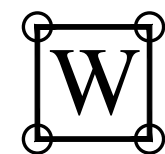
GENERAL NOTES:

- Public roadways are expected to be kept clear of sediment. Contractor is responsible for keeping sediment off roads.
- Provide concrete washout prior to the start of any concrete work. Concrete shall be placed on a level ground area as far away as possible from waterways. All materials shall be disposed of properly in accordance with local codes.
- As part of the de-watering plan, Contractor shall lower the lake by removing existing (5) Stop Logs down to concrete (elev: 530.09); located at the lake outlet structure. Drawdown is limited to 0.5-1.0 ft/day. Coordination will be required between contractor and owner for planned closure. Contractor shall include price of Stop Log replacement into cost of project (WATERMAN STOP LOGS or equal). See PLAN SET 2 for existing stop log details, Contractor to verify dimensions and material before ordering. New replacement Stop Logs will be installed by Contractor.
- Contractor shall provide an additional de-watering pump to lower the lake elevation West of the causeway; this pump shall be maintained during construction. See plan sheet 3 for additional de-watering requirements.
- Existing causeway will be closed for the replacement of the culvert. Closure of the road shall be no earlier than November 1, 2026 and no later than April 1, 2027. Length of closure shall be no longer than 7 days. Temporary aggregate running surface approved until paved.
- Remove temporary erosion control and de-watering items once construction is completed and area is stabilized.
- Weighted tape measurements indicate bathymetry is about 9-10ft below normal pool at toe of slope.



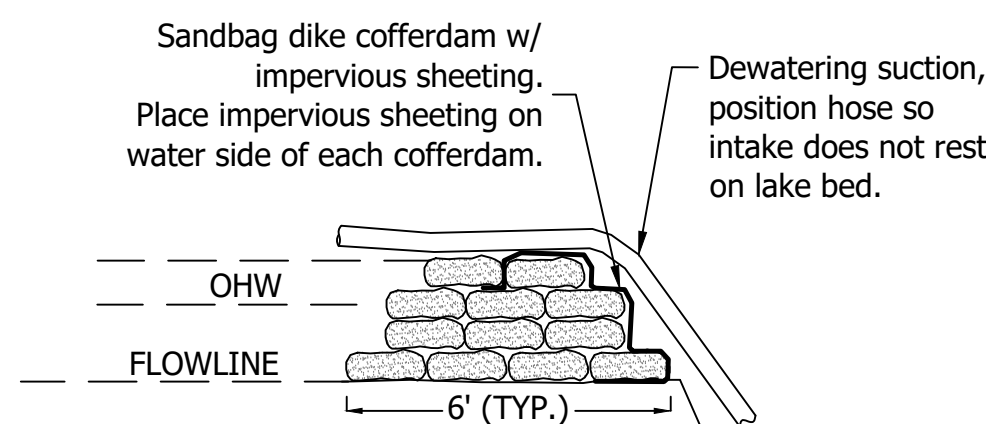
CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF WASHOUT. WASHOUT SHALL BE KEPT AS FAR AWAY FROM WATERWAYS AND STORM SEWERS AS POSSIBLE. A ROLL OFF DUMPSTER OR OTHER 3 CYD OR LARGER ENCLOSURE LINE WITH 10MIL PLASTIC MAY BE USED AS CONCRETE WASHOUT. SIGNAGE REQUIRED FOR ALL WASHOUTS.

- NOTES:
- 1.) ACTUAL LAYOUT DETERMINED IN FIELD
 - 2.) THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONC. WASHOUT FACILITY.



CONCRETE WASHOUT DETAIL

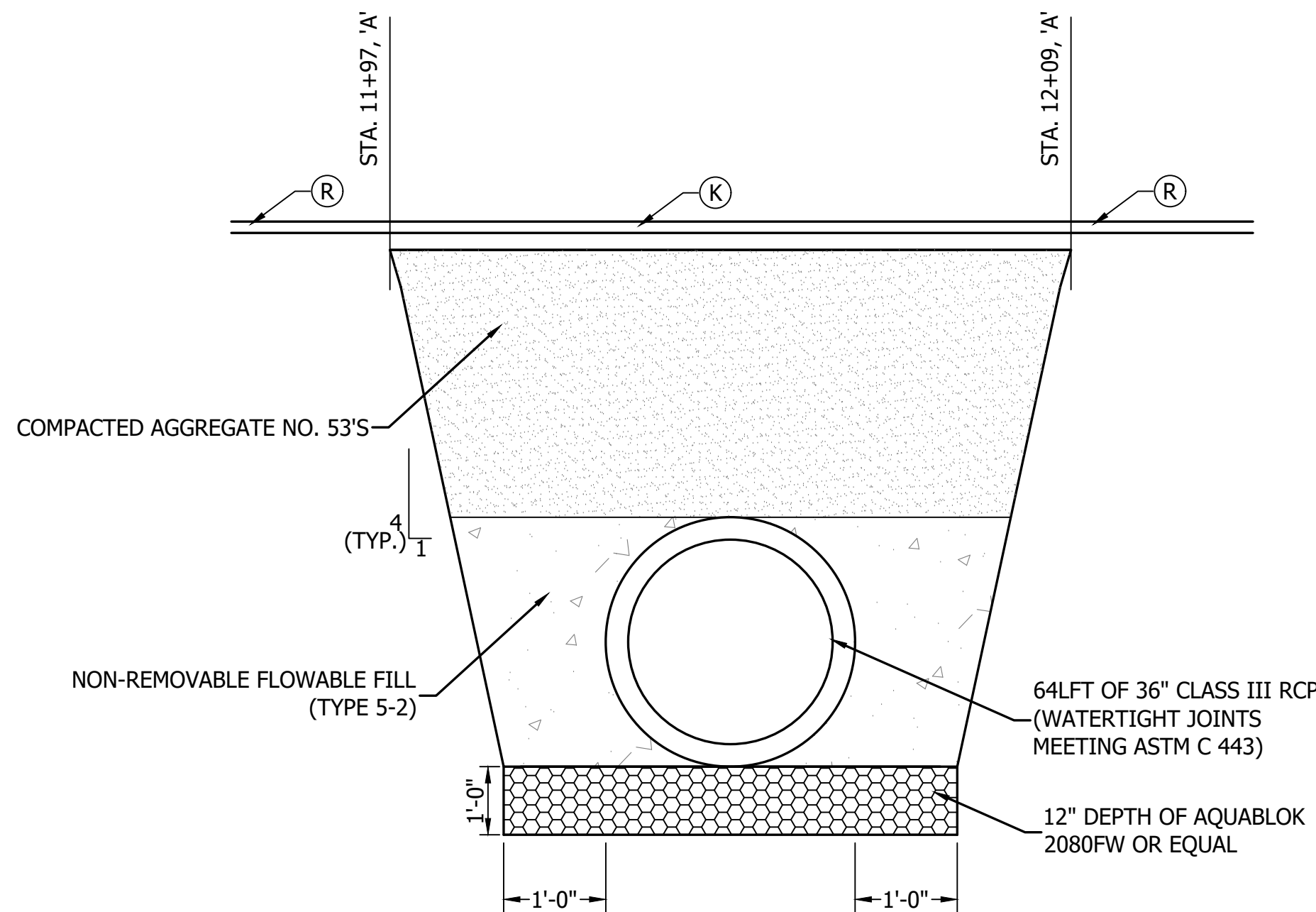
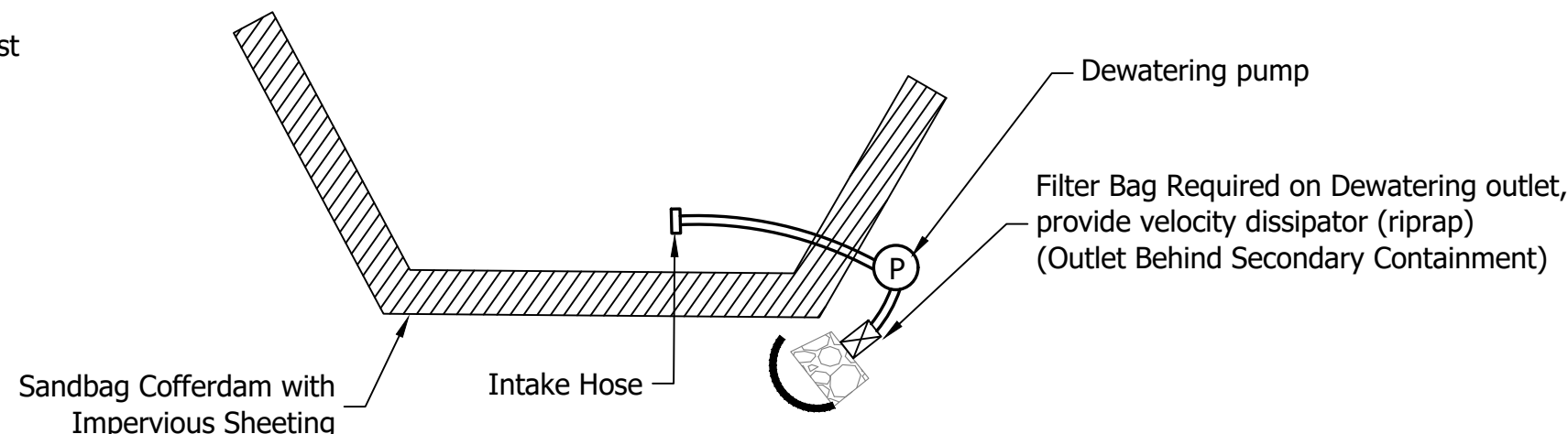
NOT TO SCALE



COFFERDAM DETAIL

SECTION A-A

NOT TO SCALE



STRUCTURE BACKFILL DETAIL

NTS

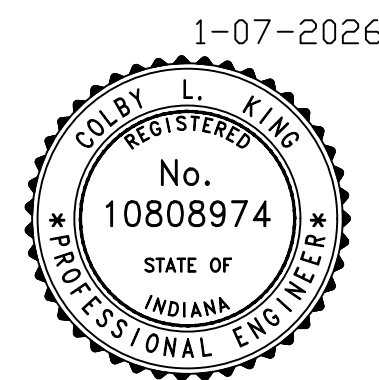
GENERAL NOTE:
All construction to meet or exceed all state, local, and federal codes & requirements, including but not limited to current INDOT, ISBH, IDEM, OSHA, local requirements & codes. The drawings & specs. that make up the work of this project are interrelated & dependent on every other drawing and spec. section. The contractor shall review all other specs., drawing & addendum (if applicable) to coordinate all work that relates to this project. If an item is drawn or specified on any spec. section or drawing, it shall be as if it were part of this work and shall be provided for in the contract.

NOTES:

1. This sheet is to be: ANSI D 22" X 34"

gonzalez

72 Henry Street,
North Vernon, Indiana 47265
Telephone: 812-346-2045



SCALE: AS SHOWN

DRAWN BY: ARC

CHECKED BY: CLK

DATE: JANUARY 7, 2026

| Revision | Drawn By | Date |
|----------|----------|------|
| | | |
| | | |
| | | |

FILE NO: 2413468

CLIENT NAME:
INDIANA DEPARTMENT OF
NATURAL RESOURCES

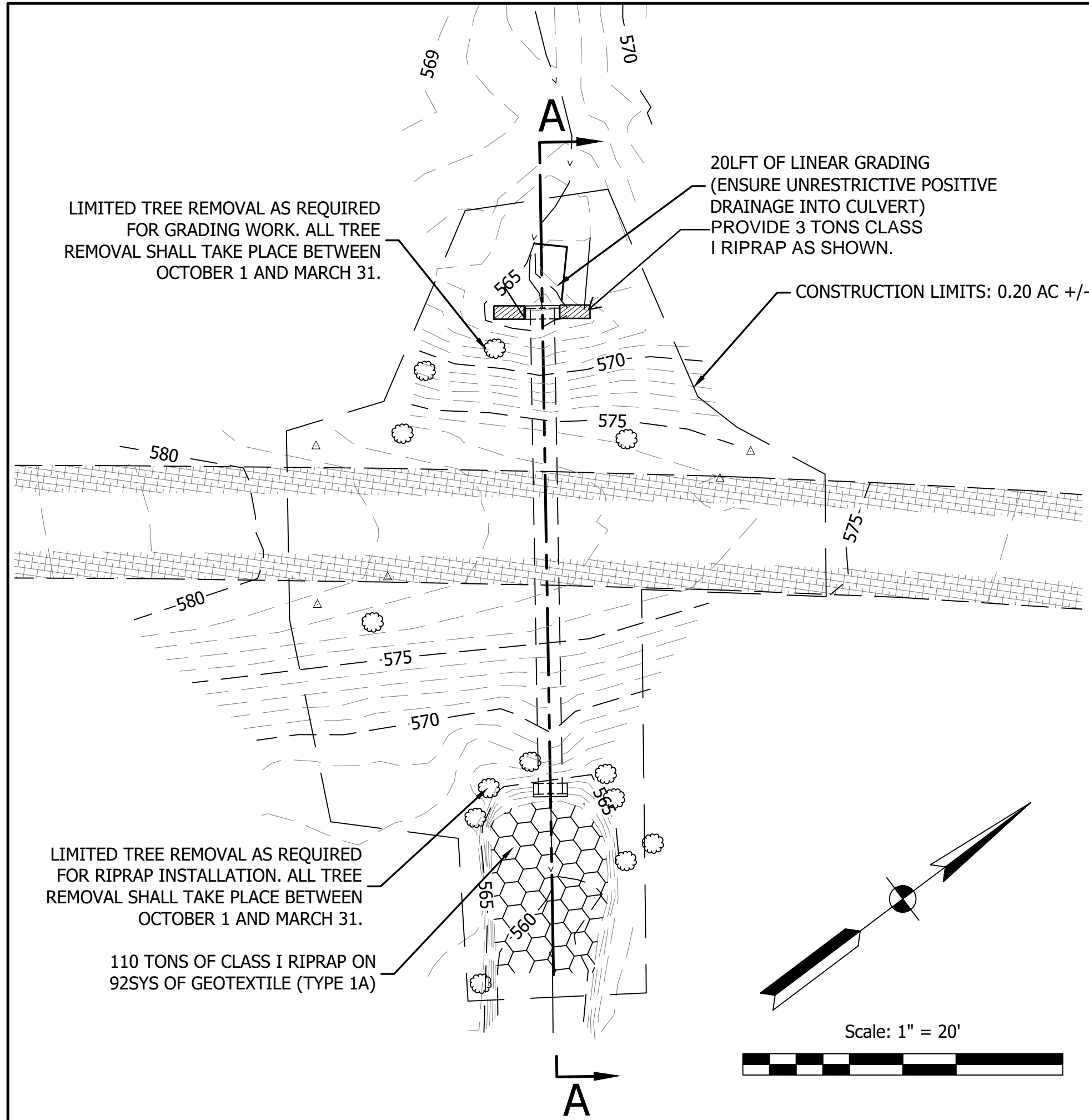
PROJECT DESCRIPTION:
DNR DEAM LAKE

SHEET TITLE:
PROJECT A - CAUSEWAY
GENERAL PLAN

DESIGN PHASE:
BIDDING PLANS

SHEET NUMBER:

4



PLAN VIEW OF CULVERT SLIP-LINING

SCALE: 1" = 20'

EX. FEATURES LEGEND

| | | | |
|------------------|--|----------------|--|
| EX. ASPHALT | | WATER VALVE | |
| EX. CONCRETE | | ELECTRIC BOX | |
| WATER/CHANNEL | | SIGN POLE | |
| UNDERGRND. ELEC. | | BOLLARD | |
| UNDERGRND. TELE. | | DECIDUOUS TREE | |
| FIBEROPTIC LINE | | MAG NAIL SET | |
| TREE LINE | | TRAVERSE | |
| STORM PIPE | | | |
| WOODEN FENCE | | | |



UPSTREAM INLET PHOTO

SCALE: NTS



DOWNSTREAM OUTLET PHOTO

SCALE: NTS

54" CMP SLIP-LINING DESIGN SUMMARY - FULL FLOW COMPARATIVE FLOW RATES

EXISTING 54" CMP: 33.7 CFS

COMPARATIVE FLOW RATES (SNAP-TITE)
OD: 48", ID: 44.87" 54 CFS

NOTES:
1. ANY TUBES USED FOR GROUT FILLING SHALL BE CUT AND GROUTED UPON COMPLETION.
2. SLIP-LINING SHALL BE CUT UPON COMPLETION TO ALLOW FOR A MAX PROTRUSION OF 3".

*CELLULAR CONCRETE GROUT
EXISTING 54" CMP

HDPE LINER PIPE
(SNAP-TITE OR EQUAL)
(44.87" I.D., 48" O.D.)

PROPOSED INLET EL. = 564.02
FILL VOIDS WHERE EXISTING PIPE
IS DETERIORATED WITH CELLULAR
CONCRETE GROUT (FIELD VERIFY)

HEADWALL/INLET ELEVATION

SCALE: 1/2" = 1'

*CELLULAR CONCRETE GROUT
EXISTING 54" CMP

HDPE LINER PIPE
(SNAP-TITE OR EQUAL)
(44.87" I.D., 48" O.D.)

PROPOSED INLET EL. = 561.77
FILL VOIDS WHERE EXISTING PIPE
IS DETERIORATED WITH CELLULAR
CONCRETE GROUT (FIELD VERIFY)

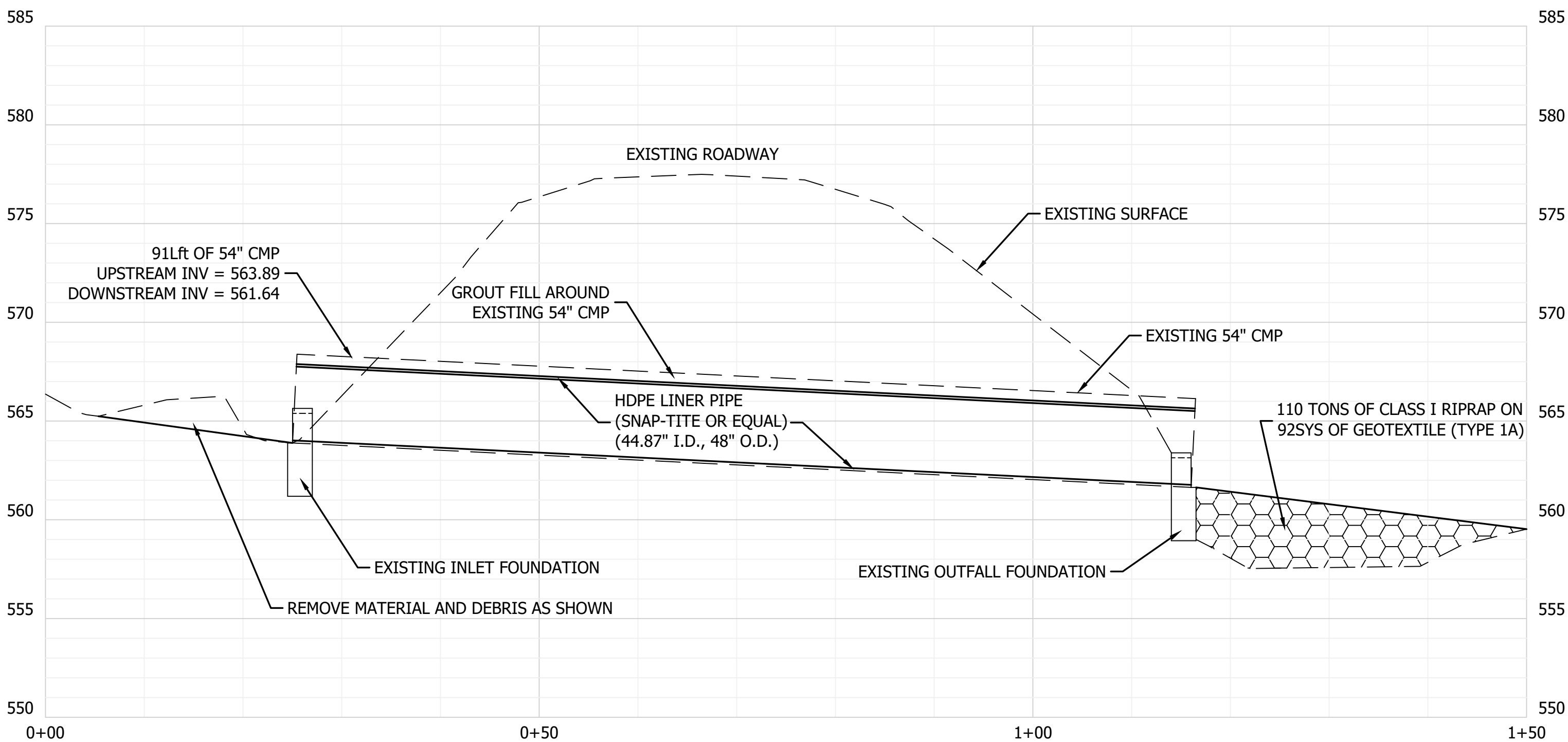
OUTLET ELEVATION

SCALE: 1/2" = 1'

*NOTE: CELLULAR CONCRETE GROUT SHALL BE IN
ACCORDANCE WITH INDOT SPECIFICATION - SECTION 725.
CONTRACTOR SHALL SUBMIT MIX FOR APPROVAL.

HDPE LINER PIPE
(MAX 3" PROTRUSION)

EXISTING OUTFALL FOUNDATION



A PROFILE VIEW OF CULVERT SLIP-LINING

SCALE: H: 1" = 10'
V: 1" = 5'

GENERAL NOTES:

- Public roadways are expected to be kept clear of sediment. Contractor is responsible for keeping sediment off roads.
- Provide concrete washout prior to the start of any concrete work. Concrete shall be placed on a level ground area as far away as possible from waterways. All materials shall be disposed of properly in accordance with local codes.
- Contractor shall provide flagging operations to maintain traffic through project limits at Project B location, road closure may be feasible if proper coordination is done with park and park operations will not be affected.
- All tree removal shall take place between October 1 to March 31, outside of the restricted Bat season.

GENERAL NOTE:
All construction to meet or exceed all state, local, and federal codes & requirements, including but not limited to current INDOT, ISBH, IDEM, OSHA, local requirements & codes. The drawings & specs. that make up the work of this project are interrelated & dependent on every other drawing and spec. section. The contractor shall review all other specs., drawing & addendum (if applicable) to coordinate all work that relates to this project. If an item is drawn or specified on any spec. section or drawing, it shall be as if it were part of this work and shall be provided for in the contract.

NOTES:

- This sheet is to be: ANSI D 22" X 34"



72 Henry Street,
North Vernon, Indiana 47265
Telephone: 812-346-2045



SCALE: AS SHOWN

DRAWN BY: ARC

CHECKED BY: CLK

DATE: JANUARY 7, 2026

| Revision | Drawn By | Date |
|----------|----------|------|
| | | |
| | | |
| | | |

FILE NO: 2413468

CLIENT NAME:
INDIANA DEPARTMENT OF
NATURAL RESOURCES

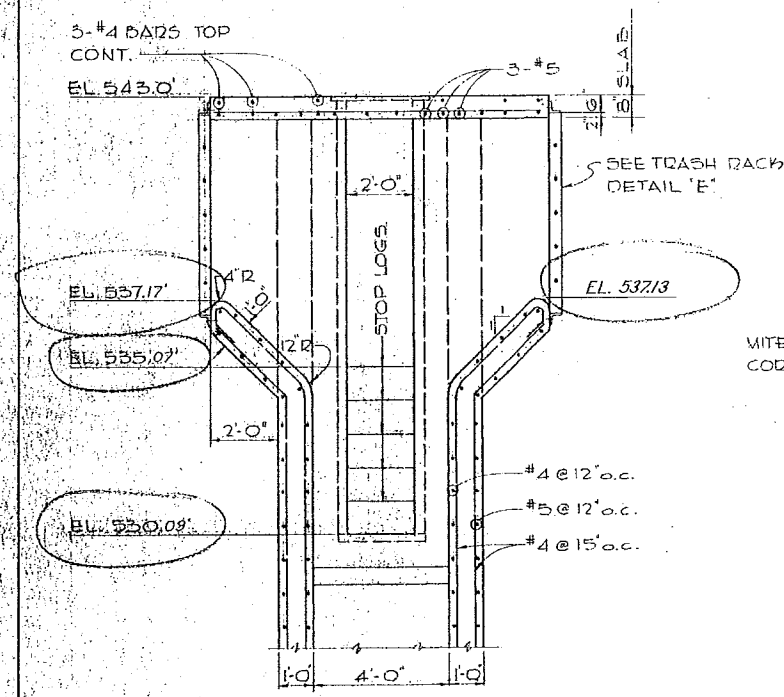
PROJECT DESCRIPTION:
DNR DEAM LAKE

SHEET TITLE:
PROJECT B - SLIP-LINE GENERAL
PLAN

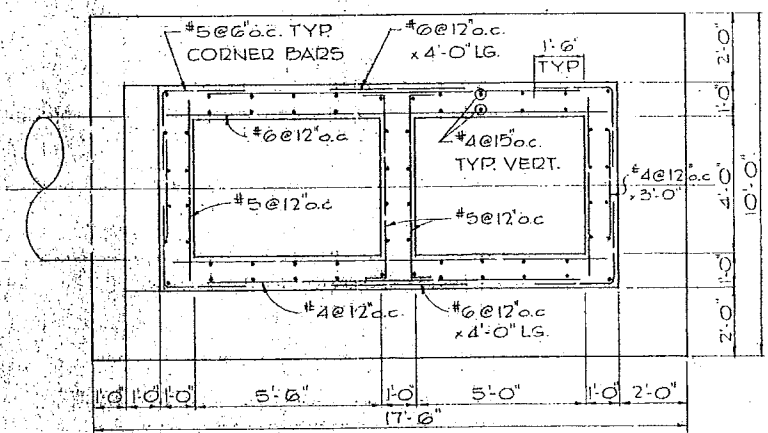
DESIGN PHASE:
BIDDING PLANS

SHEET NUMBER:

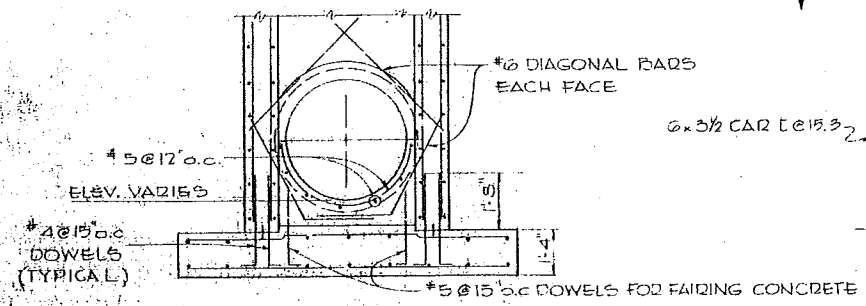
5



SECTION 16
SCALE 3/8"=1'-0"

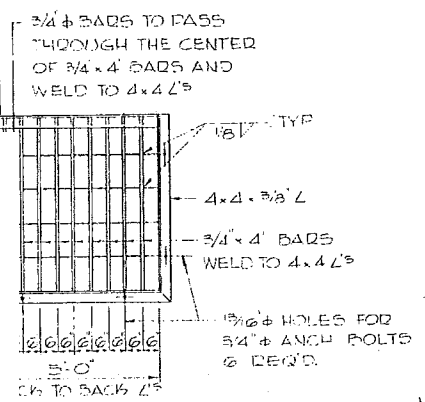
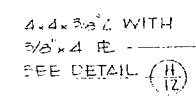
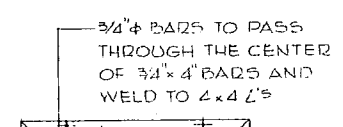


SECTION 13
SCALE 3/8"=1'-0"

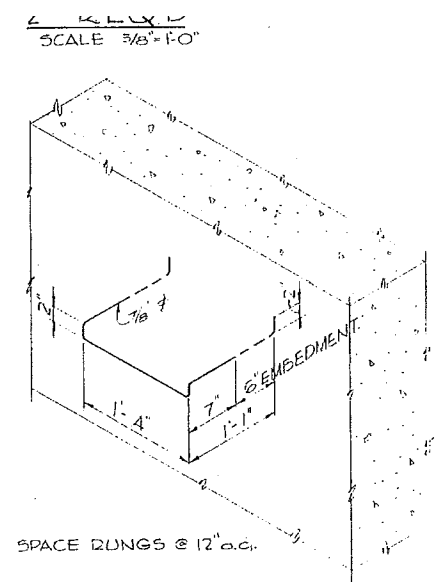


SECTION 14
SCALE 3/8"=1'-0"

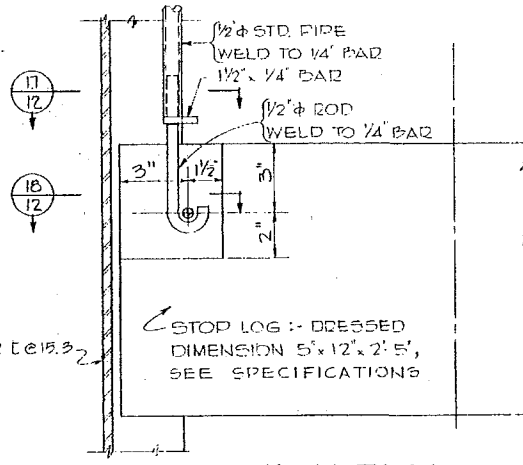
Contractor shall lower the lake by removing existing (5) Stop Logs down to concrete (elev: 530.09); located at the lake outlet structure. Draw-down is limited to 0.5-1.0 ft/day. Coordination will be required between contractor and owner for planned closure. Contractor shall include price of Stop Log replacement into cost of project (WATERMAN STOP LOGS or equal). Contractor to verify dimensions and material before ordering. New replacement Stop Logs will be installed by Contractor.



BACK DETAIL "F"
VARIATION 509.0
1 REQ'D
SCALE 3/8"=1'-0"

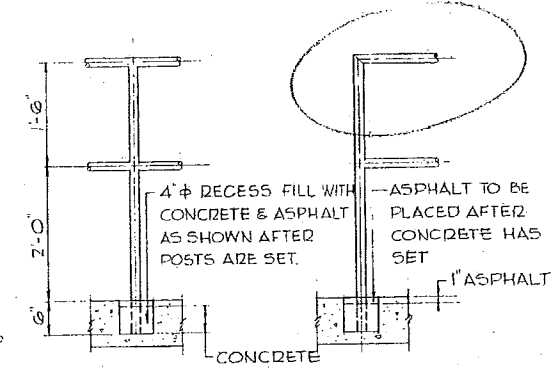


LADDER RUNG DETAIL
SCALE 1"=1'-0"



ELEVATION
SCALE 3"=1'-0"

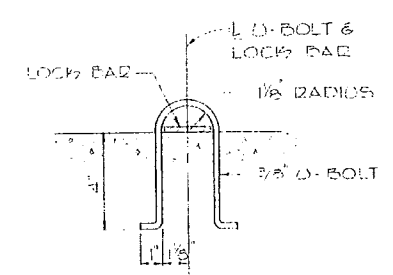
STOPLOG DETAILS
5 REQUIRED



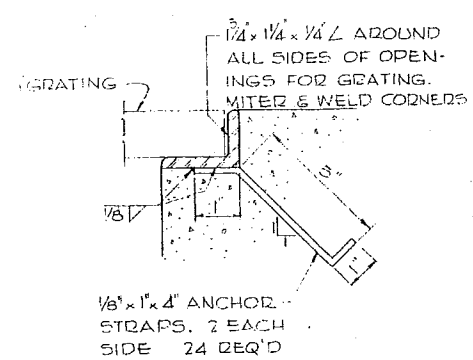
INTERMEDIATE POST
SCALE 3/4"=1'-0"

END POST
SCALE 3/4"=1'-0"

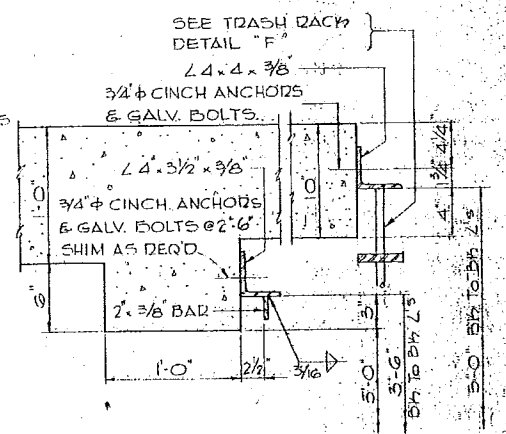
RAILING DETAILS



U-BOLT DETAIL
6 REQ'D
SCALE 3"=1'-0"



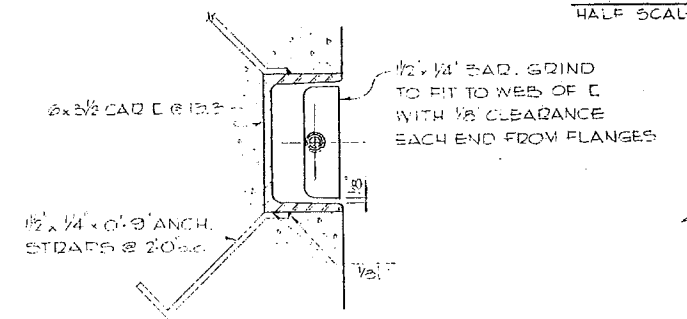
DETAIL G
SCALE 1/2"=1'-0"



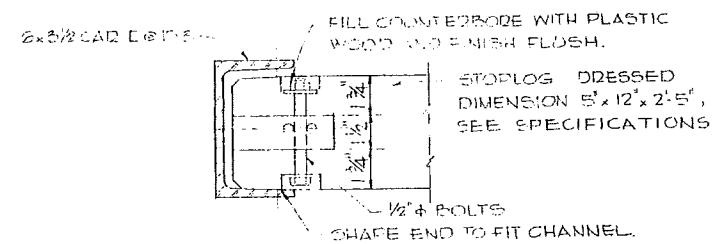
SECTION 15
SCALE 1/2"=1'-0"

NOTE

1. FOR ADDITIONAL DETAILS OF STOP LOG LIFTING BAR AND MAINTENANCE BULKHEAD SEE SHEET NO. 14



SECTION 17
SCALE 3"=1'-0"



SECTION 18
SCALE 3"=1'-0"

DETAIL H
SCALE 1/2"=1'-0"

AS BUILT DRAWING

| | | | |
|--|-----------------------|--------------------|----|
| INDIANA FLOOD CONTROL AND WATER RESOURCES COMMISSION | | | |
| DEAMS LAKE | | | |
| OUTLET WORKS INTAKE STRUCTURE | | | |
| A. M. KINNEY, INC. | | | |
| CONSULTING ENGINEERS | | | |
| CINCINNATI, OHIO | | | |
| SCALE: AS SHOWN | SHEET: 12 | OF: 15 | |
| DESIGN BY: A.W.P. | APPROVED: [Signature] | DWG. NO. IND-104 | |
| DRAWN BY: C.H.T. | CHECKED BY: A.W.P. | DATE: MAY 18, 1964 | 12 |



CERTIFIED BY

[Signature]