



Indiana Department of Environmental Management
Office of Water Quality
Wetlands Section

Publication Date:
July 10, 2024

Closing Date:
July 31, 2024

IDEM ID Number:
2024-493-2-ENH-A

Corps of Engineers ID Number:
LRE-2024-00086-102-A24

PUBLIC NOTICE

To all interested parties:

This letter shall serve as a formal notice of the receipt of an application for **Section 401 Water Quality Certification** by the Indiana Department of Environmental Management (IDEM). The purpose of the notice is to inform the public of active applications submitted for water quality certification under Section 401 of the Clean Water Act (33 U.S.C. § 1341) and to solicit comments and information on any impacts to water quality related to the proposed project. IDEM will evaluate whether the project complies with Indiana's water quality standards as set forth at 327 IAC 2.

- 1. Applicant:** City of Fort Wayne
Attn: Anne Marie Smrcek
200 East Berry Street, Suite 425
Fort Wayne, IN 46802
- 2. Agent:** Christopher B. Burke Engineering, LLC
Attn: Marin Miller
115 West Washington Street, Suite 1368 S
Indianapolis, IN 46204
- 3. Project location:** Spy Run Creek, North Dam, Fort Wayne, Allen County
Latitude 41.091690, Longitude -85.137703
- 4. Affected waterbody:** Spy Run Creek
- 5. Project Description:** The project involves removing the north low-head dam on Spy Run Creek via: constructing a temporary access road to the site; constructing a temporary causeway; removing the existing low-head dam; removing the temporary access road and temporary causeway; and implementing erosion and sediment control. The aforementioned activities will result in up to 415 cubic yards / 0.02 acres of temporary fill in Spy Run Creek. The deteriorating dam is claimed to be obsolete and having exceeded its useful design life. Additional information may be found online at <https://www.in.gov/idem/5474.htm>

Comment period: Any person or entity who wishes to submit comments or information relevant to the aforementioned project may do so by the closing date noted above. Only comments or information related to water quality or potential impacts of the project on water quality can be considered by IDEM in the water quality certification review process.

Public Hearing: Any person may submit a written request that a public hearing be held to consider issues related to water quality in connection with the project detailed in this notice. The request for a hearing should be submitted within the comment period to be considered timely. The request should also state the reason for the public hearing as specifically as possible to assist IDEM in determining whether a public hearing is warranted.

Questions? Additional information may be obtained from Emersyn Harriman, Project Manager, by phone at 317-409-7580 or by e-mail at eharrima@idem.in.gov. Please address all correspondence to the project manager and reference the IDEM project identification number listed on this notice. Indicate if you wish to receive a copy of IDEM's final decision. Written comments and inquiries may be forwarded to -

Indiana Department of Environmental Management
100 North Senate Avenue
MC65-42 WQS IGCN 1255
Indianapolis, Indiana 46204-2251 FAX: 317/232-8406

5/15/2024 12:46 PM R:\2023\23-0223\0000\0\CADD\XSSXXX - ROOT PROJECT CADD FOLDER\DRAWINGS\SHSHEET\DRAWINGS\19031 - TS01.DWG

FORT WAYNE CITY UTILITIES ENGINEERING

SPY RUN CREEK DAM REMOVAL

RESOLUTION NO. 83947

MAYOR

HONORABLE SHARON TUCKER

BOARD OF PUBLIC WORKS

SHAN GUNAWARDENA, CHAIRMAN

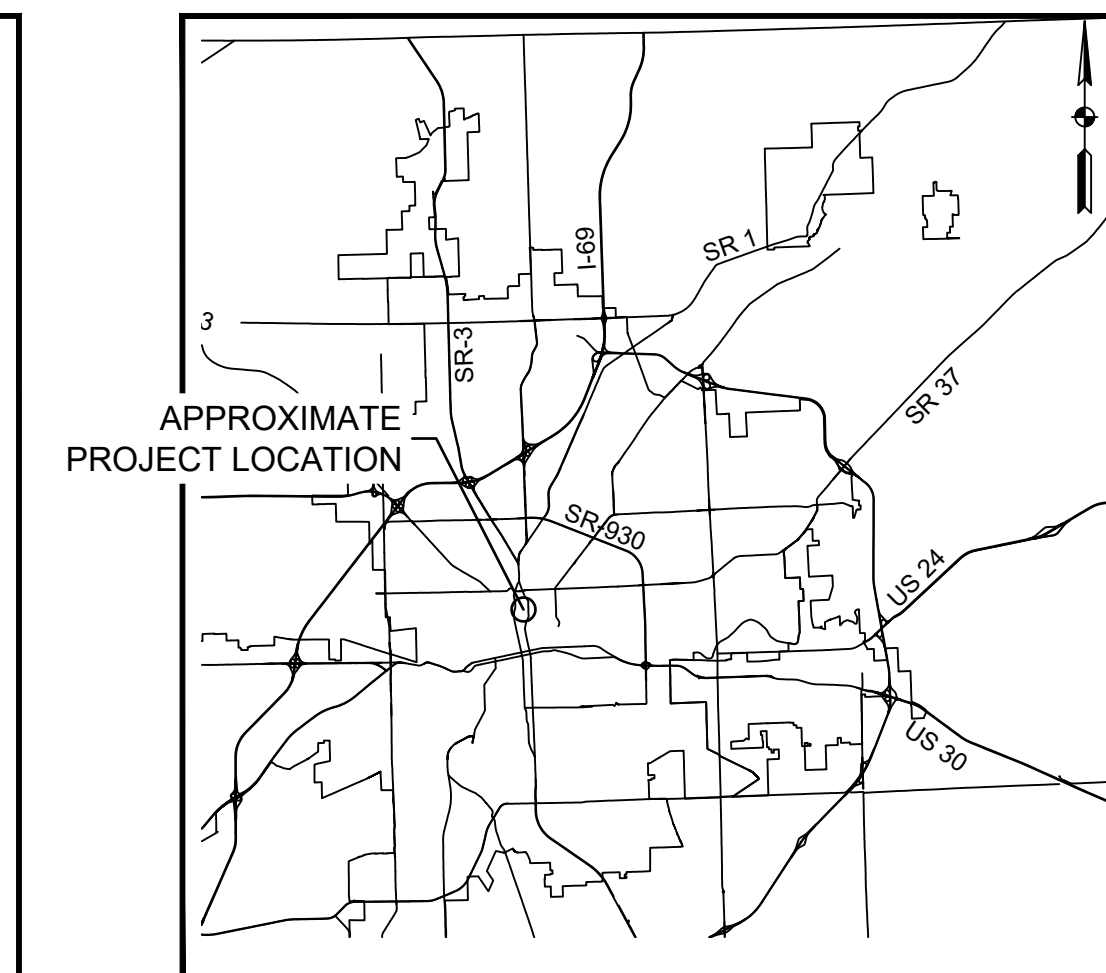
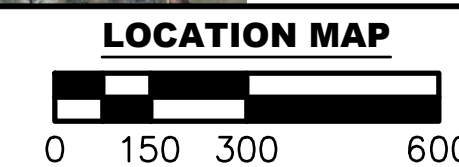
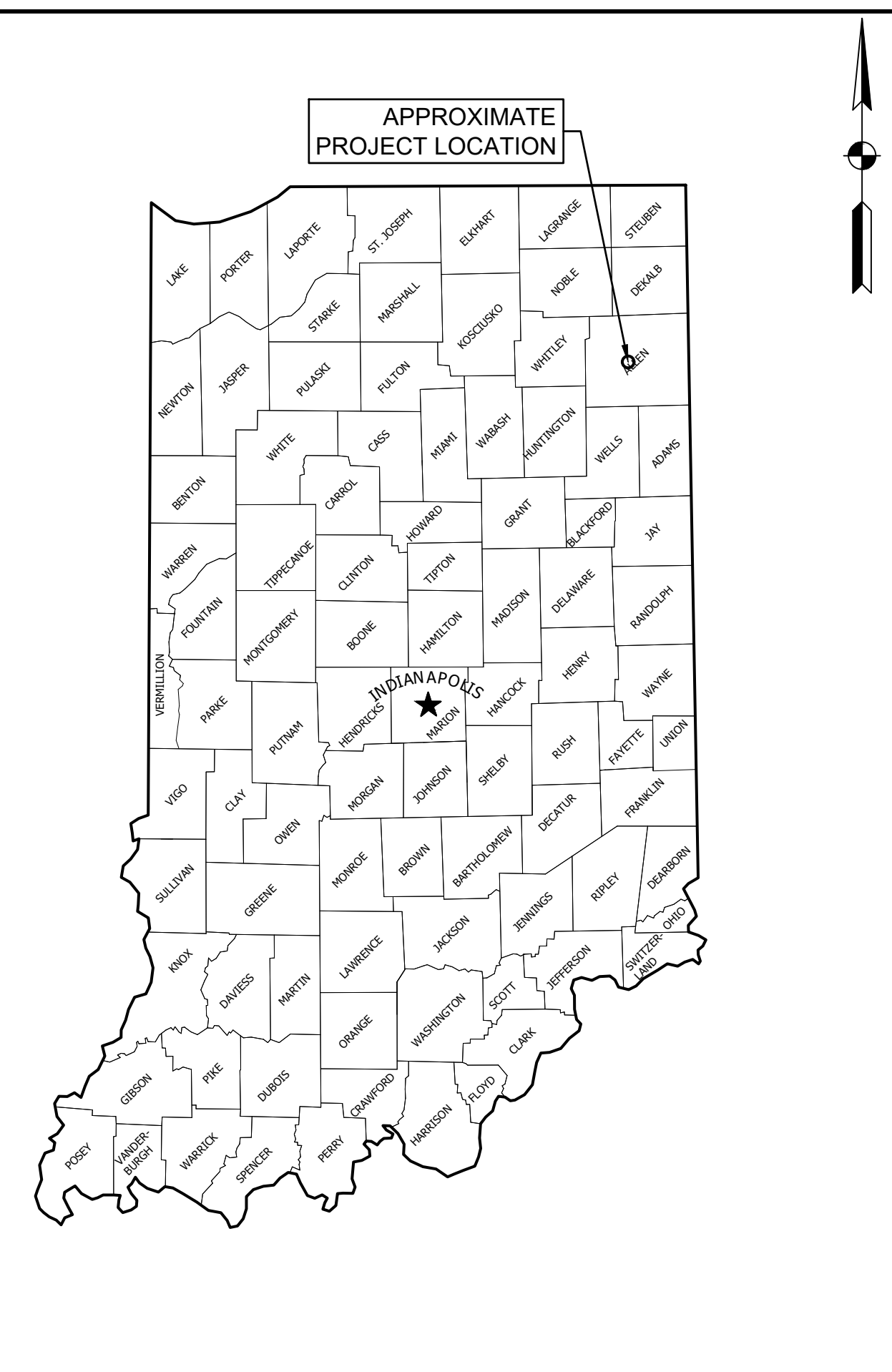
KUMAR MENON, MEMBER

CHRIS GUERRERO, MEMBER

CITY UTILITES ENGINEERING

**MATTHEW A. WIRTZ, P.E.
DEPUTY DIRECTOR/CHIEF ENGINEER**

**NATHAN BAGGETT, P.E.
BENJAMIN GENSIC, P.E.
PROJECT MANAGERS**



CITY VICINITY MAP
Scale: N.T.S.

SHEET INDEX			
NO.	ID NO.	DESCRIPTION	REMARKS
1	G-001-001	TITLE SHEET	
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5	C-101-005	SITE PLAN - UPSTREAM DAM REMOVAL	
6	C-102-006	SITE PLAN - DOWNSTREAM DAM REMOVAL	
7	C-103-007	MISCELLANEOUS DETAILS	
8	C-104-008	EROSION CONTROL PLAN - UPSTREAM DAM	
9	C-105-009	EROSION CONTROL PLAN - DOWNSTREAM DAM	
10	C-201-010	EROSION CONTROL PLAN DETAILS	

SHEET PREPARED BY:
CB BURKE
CHRISTOPHER B. BURKE
ENGINEERING, LLC
PNC CENTER, SUITE 1368 S
115 W. WASHINGTON STREET
INDIANAPOLIS, IN 46204
PHONE: (317) 266-8000

BY: _____ DATE: _____

BY: _____ DATE: _____

SPY RUN CREEK DAM REMOVAL

PREPARED FOR:
FORT WAYNE
CITY UTILITIES ENGINEERING
CITIZENS SQUARE
200 E. BERRY ST., STE 250
FORT WAYNE, IN 46802

30% PLANS
NOT FOR
CONSTRUCTION

W.O. NO: 83947
DWG NO: ##-####

SURVEYED BY: APEX CONSULTING&SURVEYING
DRAWN BY: ABBY R. PETERSON, P.E.
DESIGNED BY: AARON J. FRICKE, P.E.
CHECKED BY: JEFFREY D. FOX, P.E.
APPROVED BY: AARON J. FRICKE, P.E.

DATE: _____
SHEET TITLE: _____

TITLE

G-001-001
SHEET 1 OF 10



PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO REMOVE TWO LOW-HEAD DAMS ON SPY RUN CREEK IN FORT WAYNE, INDIANA.

THE SCOPE OF WORK INCLUDES THE FOLLOWING:

1. CONSTRUCTING TEMPORARY ACCESS ROAD(S) TO THE UPSTREAM DAM
2. CONSTRUCTING TEMPORARY CAUSEWAY(S) (OPTIONAL)
3. REMOVING THE EXISTING LOW-HEAD DAMS
4. REMOVING THE TEMPORARY ACCESS ROAD(S) AND TEMPORARY CAUSEWAY
5. EROSION AND SEDIMENT CONTROL

SURVEY NOTES

TOPOGRAPHIC SURVEY PROVIDER:
APEX CONSULTING & SURVEYING, INC.
1313 BROADWAY
FORT WAYNE, INDIANA 46802

REFER TO TOPOGRAPHIC SURVEY SHEET FOR BENCHMARK AND CONTROL INFORMATION. VERTICAL DATUM IS NAVD88.

REGULATORY NOTES

1. OWNER HAS OR WILL OBTAIN THE FOLLOWING PERMITS FOR THIS PROJECT:
 - CERTIFICATE OF APPROVAL OF CONSTRUCTION IN A FLOODWAY FROM THE INDIANA DEPARTMENT OF NATURAL RESOURCES.
 - SECTION 401 WATER QUALITY CERTIFICATION FROM THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 - SECTION 404 DEPARTMENT OF THE ARMY PERMIT FROM THE UNITED STATES ARMY CORPS OF ENGINEERS
 - SECTION 408 PERMIT FROM THE UNITED STATES ARMY CORPS OF ENGINEERS
2. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH PERMIT CONDITIONS.
3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL OTHER PERMITS AS REQUIRED.

UTILITY NOTES

1. UTILITIES SHOWN ON THE DRAWINGS ARE BASED ON TOPOGRAPHIC SURVEY AND SHOULD BE CONSIDERED FOR REFERENCE ONLY.
2. CALL INDIANA 811 AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF LAND-DISTURBING ACTIVITIES TO SCHEDULE A UTILITY LOCATE. ALL UNDERGROUND UTILITIES SHALL BE FLAGGED OR CLEARLY MARKED.
3. VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR OMISSIONS WITH THE EXISTING UTILITIES SHOWN ON THE DRAWINGS TO ENGINEER IMMEDIATELY.
4. COORDINATE WITH UTILITY COMPANIES WITHIN AND ADJACENT TO PROJECT LIMITS PRIOR TO COMMENCING WORK TO DETERMINE REQUIREMENTS.
5. PROTECT EXISTING UTILITIES IN AN APPROPRIATE MANNER AS REQUIRED TO PREVENT DAMAGE.
6. ALL UTILITIES MUST BE FULLY OPERATIONAL AND ACCESSIBLE THROUGHOUT THE DURATION OF THE PROJECT. IF IT IS NECESSARY TO DISRUPT SERVICE, NOTIFY ENGINEER AND UTILITY COMPANY AT LEAST 48 HOURS IN ADVANCE OF THE PLANNED INTERRUPTION TO COORDINATE REQUIREMENTS.

RIGHT-OF-WAY NOTES

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A LOCAL PERMIT FOR WORK WITHIN THE RIGHT-OF-WAY, IF REQUIRED. CONTRACTOR MUST MEET REQUIREMENTS FOR INSURANCE AND BONDING.
2. CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC PLAN FOR APPROVAL. COORDINATE WITH THE CITY OF FORT WAYNE FOR REQUIREMENTS.

FLOOD ZONE MAP



UPSTREAM DAM ACCESS MAP



ACCESS NOTES

1. APPROXIMATE ACCESS ROUTE SHOWN. COORDINATE WITH OWNER TO ESTABLISH EXACT ACCESS ROUTE IN FIELD.
2. REMOVE TEMPORARY ACCESS ROAD FOLLOWING CONSTRUCTION.
3. SEED AND STRAW MULCH DISTURBED AREAS FOLLOWING REMOVAL.

PHOTO 1



PHOTO TAKEN ON 02/16/2024 LOOKING UPSTREAM AT DOWNSTREAM DAM FROM EAST BANK

PHOTO 2



PHOTO TAKEN ON 02/16/2024 ON CREST OF DOWNSTREAM DAM, LOOKING WEST

PHOTO 3



PHOTO TAKEN ON 02/16/2024 LOOKING UPSTREAM AT UPSTREAM DAM FROM EAST BANK

PHOTO 4



PHOTO TAKEN ON 02/16/2024 ON CREST OF UPSTREAM DAM, LOOKING EAST

SHEET PREPARED BY:

BB BURKE
 CHRISTOPHER B. BURKE
 ENGINEERING, LLC
 PNC CENTER, SUITE 1368 S
 115 W. WASHINGTON STREET
 INDIANAPOLIS, IN 46204
 PHONE: (317) 266-8000

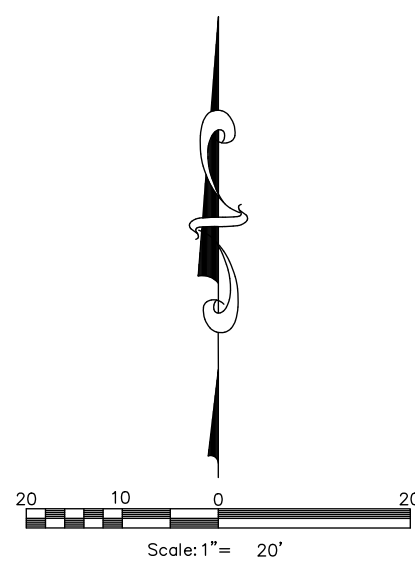
SPY RUN CREEK DAM REMOVAL

30% PLANS
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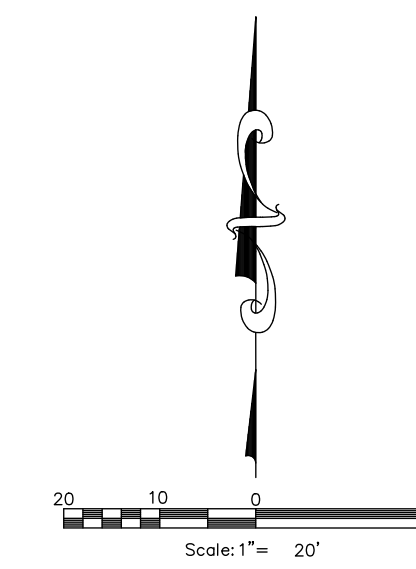
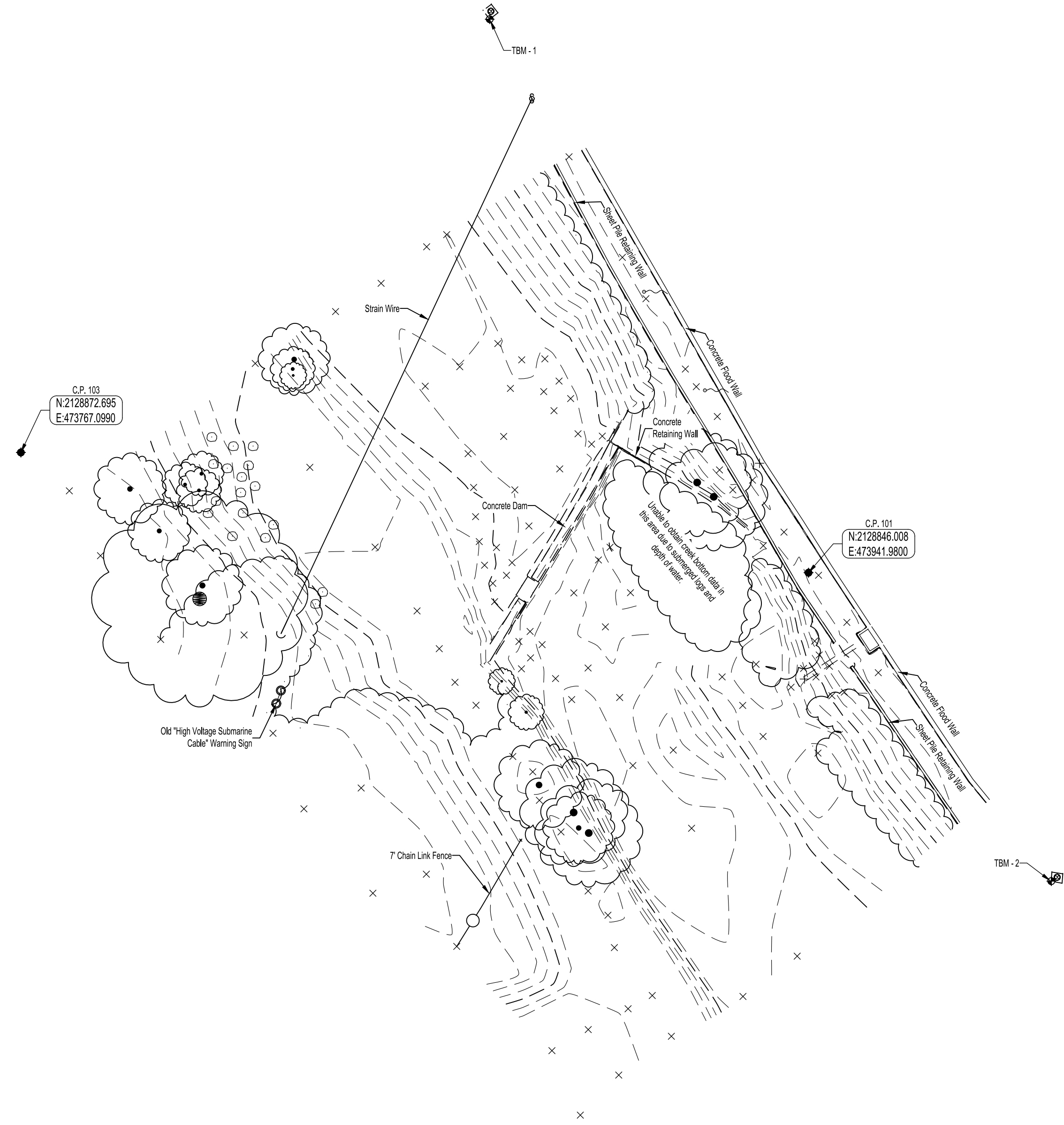
PREPARED FOR:
 FORT WAYNE
 CITY UTILITIES ENGINEERING
 CITIZENS SQUARE
 200 E. BERRY ST., STE 250
 FORT WAYNE, IN 46802

W.O. NO: 83947
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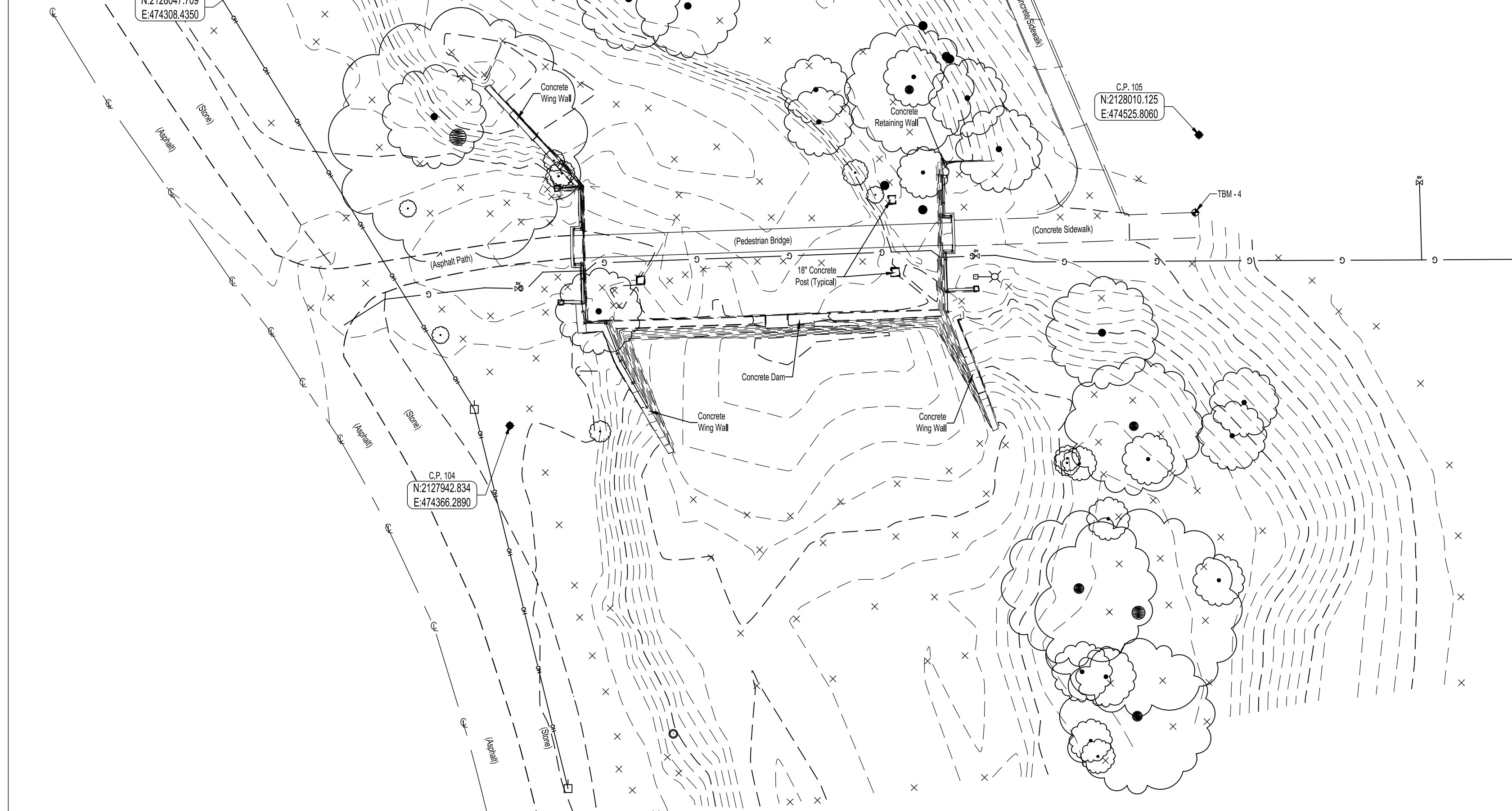
PROJECT INFORMATION SHEET



NORTH SITE



SOUTH SITE



Symbols Legend

☒ Air Conditioning Unit	⚡ Power Pole w/ Elec. Drop	⊙ Iron Pin	⊗ Sanitary Top
⊙ Antenna	⊞ Electric Box	⊙ Mog Nail	● Stump
⊙ Axle Shaft	⊞ Electric Meter	⊞ Mailbox	⊙ Survey Marker Nail
⊙ Bench Mark	⊞ Electric Panel	⊙ Manhole	⊙ T-Bar Post
⊙ Bollard	⊞ Electric Pedestal	⊙ Monitoring Well	⊙ Temporary Bench Mark
⊙ Bolt	⊞ Electric Transformer	⊙ Pine Tree	⊙ Telephone Pedestal
⊙ Boulder	⊙ Light Pole Base Only	⊙ Pay Phone	⊙ Telephone Pole
⊙ Cable TV Pedestal	⊙ Light Pole	⊙ Paper Box	⊙ Tree
⊙ Clean-Out	⊙ Yard Light	⊙ Parking Block	⊙ Vault
⊙ Column	⊙ Power Pole	⊙ Parking Meter	⊙ Automatic Sprinkler
⊙ Control Point	⊙ Strain Pole	⊙ Boundary Mon. - Pipe	⊙ Irrigation Control Valve
⊙ Drain	⊙ Finish Floor	⊙ Chiseled "X"	⊙ Fire Hydrant
⊙ B-Hive Inlet	⊙ Flag	⊙ PK Nail	⊙ Water Curb Stop
⊙ Square Inlet	⊙ Ground Shot	⊙ Post	⊙ Well
⊙ Curb Cast Inlet	⊙ Gas Regulator	⊙ I Beam Post	⊙ Water Meter
⊙ Field Drain	⊙ Gas Curb Stop	⊙ Railroad Rail Post	⊙ Warning Riser
⊙ Downspout	⊙ Gas Meter	⊙ Railroad Spike	⊙ Water Valve
⊙ Round Inlet	⊙ Gas Valve	⊙ Satellite Dish	⊙ Yard Hydrant
⊙ Stand Pipe	⊙ Handicap	⊙ Sign	⊙ Post Indicator Valve
⊙ Soil Boring	⊙ Harrison Marker	⊙ Signal Pole	⊙ Vent
⊙ Guy Anchor			
— CATV —	— CATV —	— T —	— T —
— UE —	— UE —	— UT —	— UT —
— G —	— G —	— W —	— W —
		— R —	— R —
		— FOC —	— FOC —
			—

UTILITY CONTACTS

GAS
NIPSCO
1501 Hale Ave.
Fort Wayne, IN 46802
Contact: Dave Schaafsma
utilitycoordination@nisource.com

WATER, SEWER & TRAFFIC LIGHTS
City of Fort Wayne
200 E. Berry St., Suite 210
Fort Wayne, IN 46802
Contact: Mario Trevino
260-427-2696
Mario.trevino@cityoffortwayne.org

CABLE TV
Comcast
720 Taylor St.
Fort Wayne, IN 46802
Contact: John Gayday
260-458-5107
john_gayday@cable.comcast.com

ELECTRIC
AEP
J. Jay Marlow
260-408-3447

TELEPHONE
Frontier
8001 W. Jefferson Blvd.
Fort Wayne, IN 46804
Contact: Mark Winters
260-413-0986
mark.winters@ftr.com

FIBER OPTIC
AT&T TRANSMISSION
222 W. Jackson St.
Woodstock, IL 60098
Contact: Kenneth Colwell
312-734-2223
Kc1298@att.com

INDIANA 811 TICKET NUMBERS
2401300996, 2402121746, 2402151902, 2402151980

CONTROL POINTS

CP-101
5/8" Steel rebar W/Apex ID. Cap
Northing: 2128846.008
Easting: 473941.980
Elevation: 756.52

CP-102
5/8" Steel rebar
Northing: 212039.668
Easting: 473818.898
Elevation: 757.30

CP-103
3/8" Steel rebar W/orange cap
Northing: 2128872.695
Easting: 473767.099
Elevation: 758.41

CP-104
5/8" Steel rebar W/Apex ID. Cap
Northing: 2127942.834
Easting: 474366.289
Elevation: 750.13

CP-105
5/8" Steel rebar W/Apex ID. Cap
Northing: 2128010.125
Easting: 474525.806
Elevation: 760.88

CP-106
5/8" Steel rebar W/Apex ID. Cap
Northing: 2128047.709
Easting: 474308.435
Elevation: 749.16

BENCHMARK INFORMATION

TBM-1
South Corner of concrete
at clean out (See Survey Drawing)
Elevation: 756.89

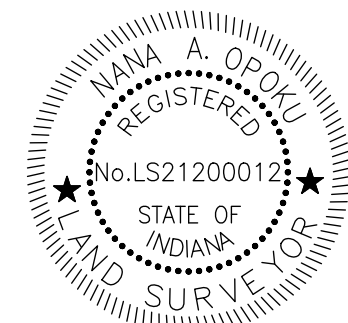
TBM-2
West Corner of concrete
at clean out (See Survey Drawing)
Elevation: 756.69

TBM-3
Spike set in South face of
power pole (See Survey Drawing)
Elevation: 750.51

TBM-4
Chiseled box set on Northwest
corner of bottom step (See Survey Drawing)
Elevation: 756.19

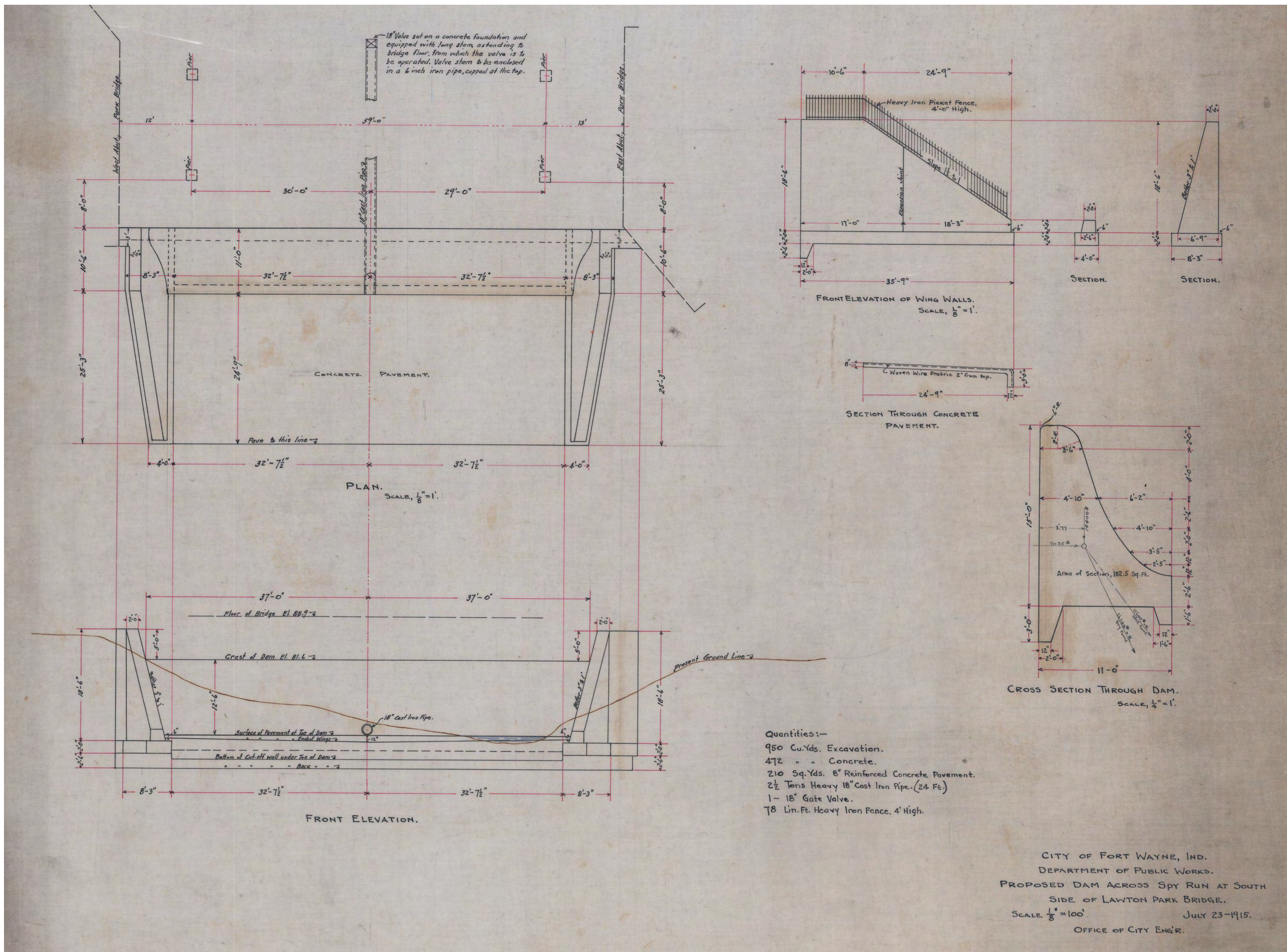
Location and sizes of underground utilities are shown from best available record drawings and/or field markings. Utility lines shown hereon are approximate in location and intended for reference only. Call Indiana Underground Plant Protection Services (IUPPS) at 1-800-382-5544 for field marked location of utilities prior to any excavation.

I Nana A. Opoku certify that I am a Land Surveyor licensed in compliance with the laws of the State of Indiana; that to the best of my knowledge, information and belief all information shown hereon is true and accurate:



Nana A. Opoku PLS 21200012

Drawn By: JCS Date of office work: 3/1/2024 Date of fieldwork: 3/1/2024 Approved By: NAO Job Number: 24010001	APEX Consulting & Surveying, Inc. LAND SURVEYING LAND PLANNING & DESIGN 1313 BROADWAY FORT WAYNE, IN. 46802 PH: (260) 755-5993 FAX: (888) 808-4177 E-MAIL: info@apexsurveying.net		TOPOGRAPHIC SURVEY City of Fort Wayne Spy Run Creek Dam Removal Wayne Township, Allen County, Indiana	REVISIONS <table border="1"> <thead> <tr> <th>BY</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	BY	DATE	DESCRIPTION										Cad File Name: 24010001.DWG Sheet No.: 1 of 1
BY	DATE	DESCRIPTION															



NOTES:
1. INFORMATION SHOWN IS FROM DRAWINGS PREPARED BY THE CITY OF FORT WAYNE IN 1915 AND IS FOR REFERENCE ONLY.
2. VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

SHEET PREPARED BY:

BURKE
CHRISTOPHER B. BURKE
ENGINEERING, LLC
PNC CENTER, SUITE 1368 S
115 W. WASHINGTON STREET
INDIANAPOLIS, IN 46204
PHONE: (317) 266-8000

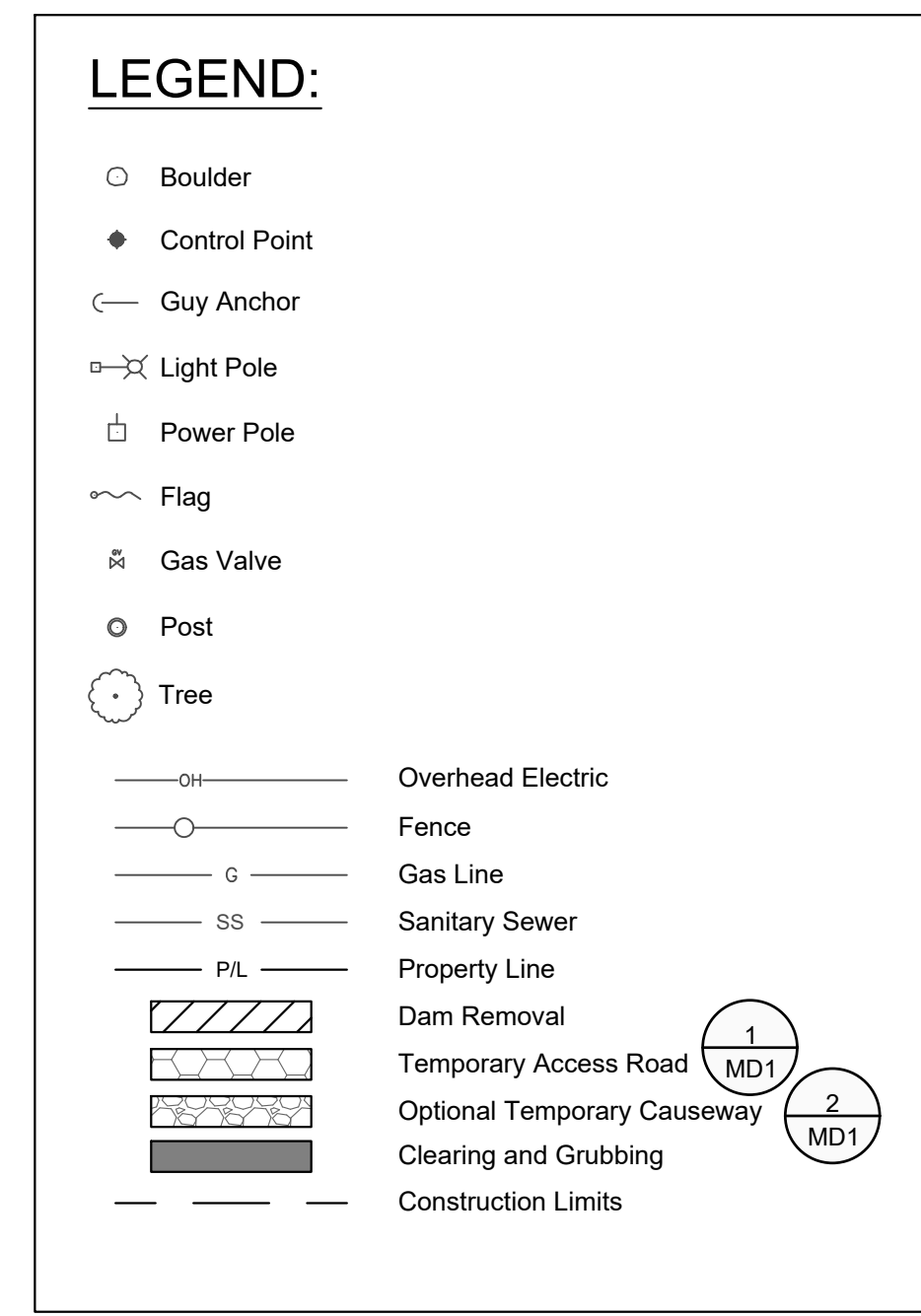
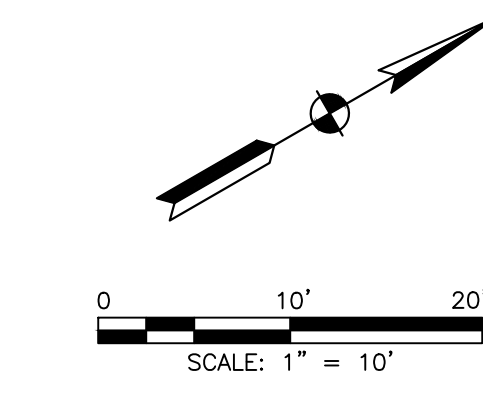
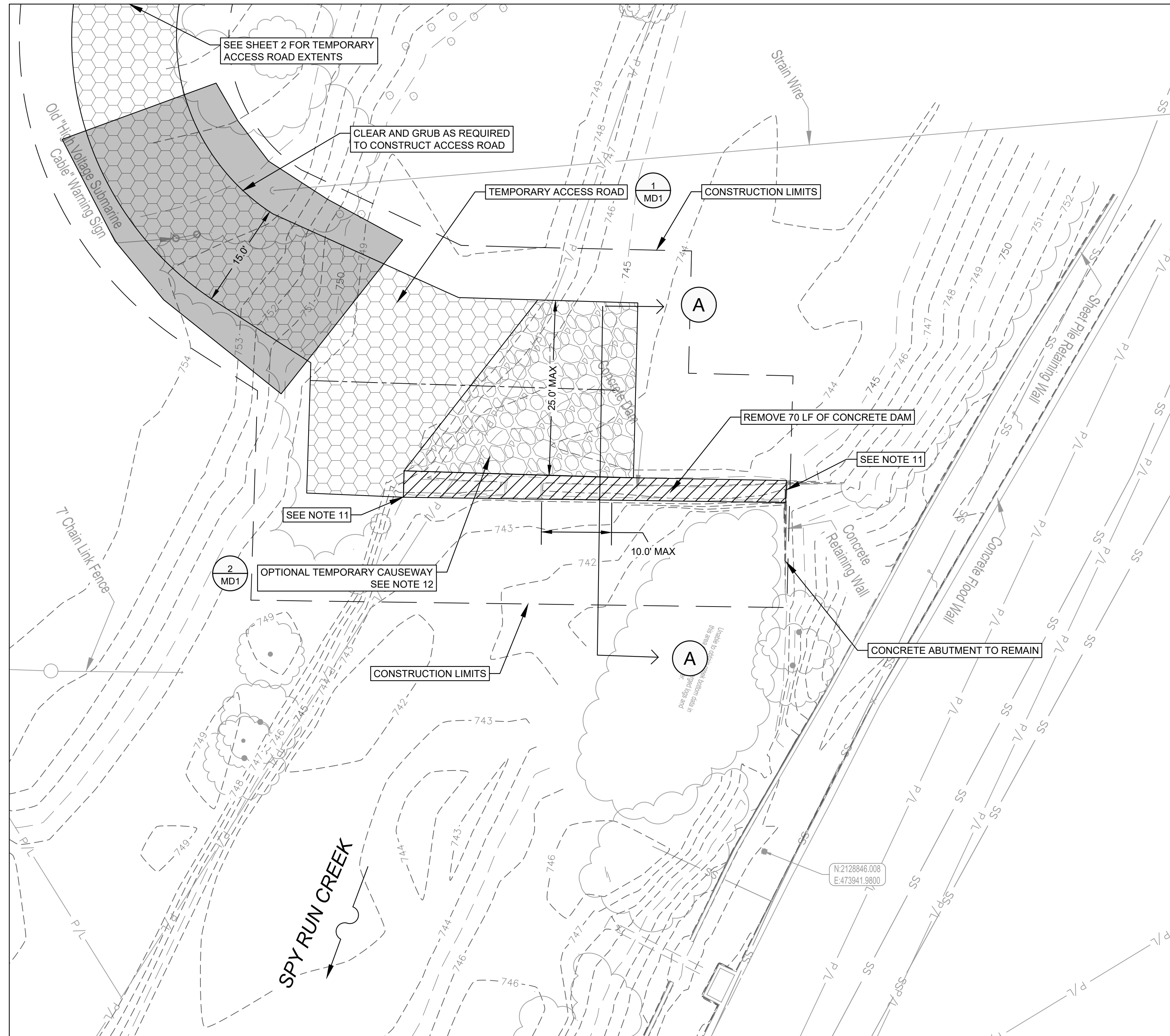
SPY RUN CREEK DAM REMOVAL

PREPARED FOR:
FORT WAYNE
CITY UTILITIES ENGINEERING
CITIZENS SQUARE
200 E. BERRY ST., STE 250
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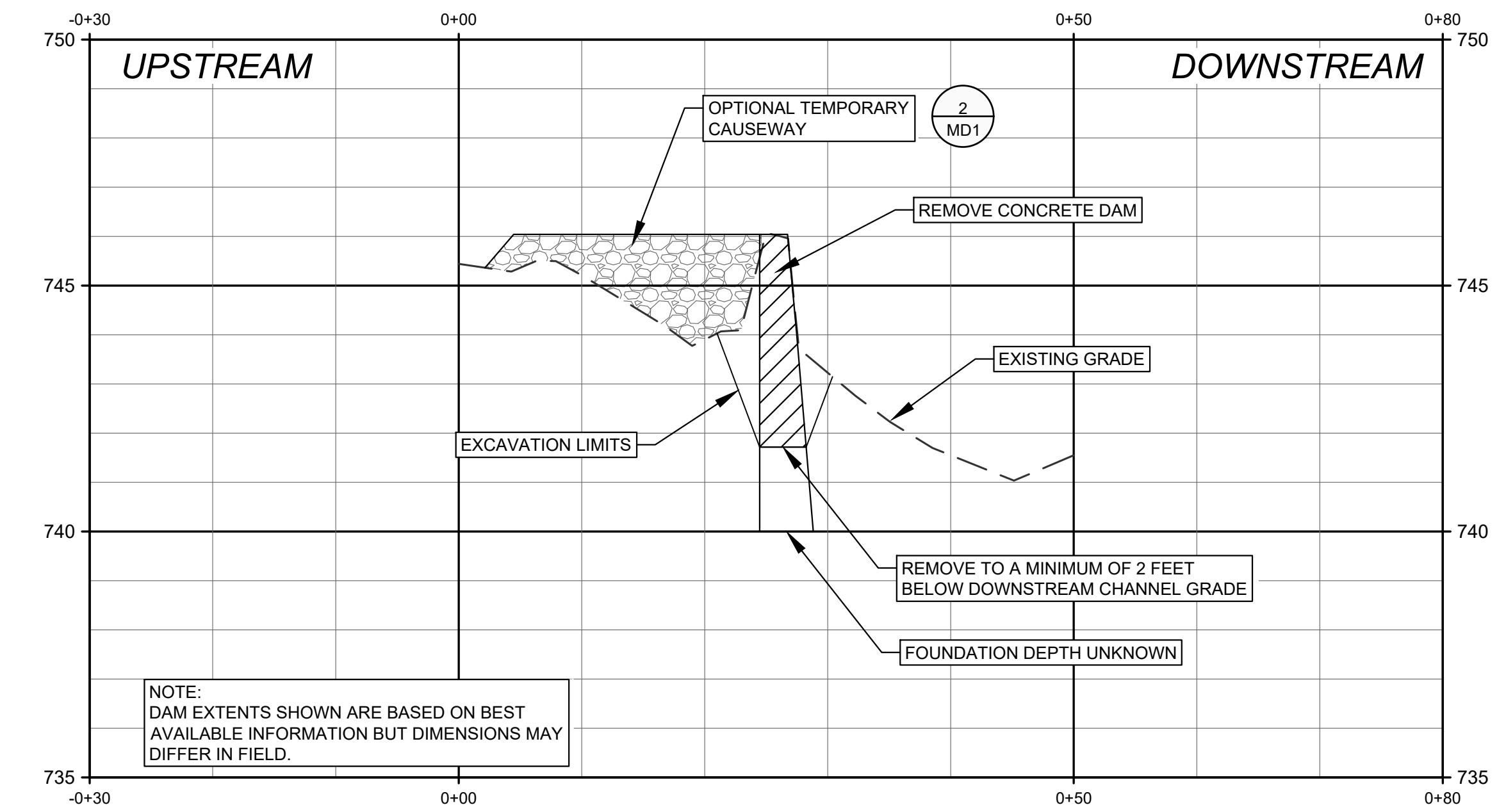
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**DOWNSTREAM DAM
EXISTING PLAN
AND SECTION**



- NOTES:**
- TOPOGRAPHIC AND PLANIMETRIC INFORMATION IS SHOWN PER A SURVEY PERFORMED BY APEX CONSULTING & SURVEYING, INC., DATED MARCH 1, 2024.
 - THE BASE FLOOD ELEVATION OF SPY RUN AT THE DAM IS 757.0 FEET (NAVD 88) PER THE FEMA FLOOD INSURANCE STUDY FOR ALLEN COUNTY, INDIANA AND INCORPORATED AREAS, REVISED JANUARY 11, 2024.
 - DISPOSE OF ALL CONCRETE AND RUBBLE REMOVED FROM THE EXISTING DAM AS WELL AS ANY VEGETATION REMOVED OR OTHER CONSTRUCTION DEBRIS AT AN APPROVED OFFSITE LOCATION. SUBMIT DISPOSAL SITE INFORMATION AND ANY REQUIRED PERMITTING TO ENGINEER FOR APPROVAL.
 - DO NOT WORK IN THE WATERWAY FROM APRIL 1 THROUGH JUNE 30 WITHOUT PRIOR WRITTEN APPROVAL OF THE INDIANA DEPARTMENT OF NATURAL RESOURCES DIVISION OF FISH AND WILDLIFE.
 - DO NOT EXCAVATE WITHIN THE RIVER EXCEPT FOR REMOVAL OF THE EXISTING DAM AND SEDIMENT AS INDICATED.
 - TAKE APPROPRIATE MEASURES TO MINIMIZE THE MOVEMENT OF RESUSPENDED BOTTOM SEDIMENT FROM THE IMMEDIATE PROJECT AREA.
 - RATE OF DRAWDOWN MAY NOT EXCEED 1 FOOT PER DAY. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING DETAILED SEQUENCING AND DEWATERING INFORMATION TO OWNER AND ENGINEER FOR APPROVAL. DOWNSTREAM DAM SHALL BE REMOVED FIRST.
 - DEWATERING DIRECTLY INTO THE RIVER IS PROHIBITED. UTILIZE DEWATERING BAGS OR OTHER APPROVED MEASURES.
 - DO NOT CUT ANY TREES SUITABLE FOR INDIANA BAT OR NORTHERN LONG-EARED BAT ROOSTING FROM APRIL 1 TO SEPTEMBER 30. SUCH TREES ARE GREATER THAN 3 INCHES DIAMETER AT BREST HEIGHT, LIVING OR DEAD, WITH LOOSE HANGING BARK, OR WITH CRACKS, CREVICES, OR CAVITIES.
 - STABILIZE ALL BARE AND DISTURBED AREAS LANDWARD OF THE SHORELINE WITHIN ONE WEEK OF DISTURBANCE.
 - FIELD VERIFY CONNECTION OF DAM TO ABUTMENTS AND SUBMIT WORK PLAN TO OWNER AND ENGINEER FOR REMOVAL OF DAM AT THE ABUTMENTS. IT IS EXPECTED THAT FIELD VERIFICATION WILL OCCUR AFTER SUFFICIENT DEWATERING TAKES PLACE SUCH THAT THERE IS NO FLOW OVER THE DAM. NOTIFY OWNER AND ENGINEER PRIOR TO FIELD VERIFICATION.
 - TEMPORARY CAUSEWAY IS OPTIONAL. REMOVE AT THE END OF CONSTRUCTION. NO OTHER TEMPORARY IMPACTS BELOW THE ORDINARY HIGH WATER MARK ARE ALLOWED.



CROSS SECTION A-A

SHEET PREPARED BY:

 CHRISTOPHER B. BURKE
 ENGINEERING, LLC
 PNC CENTER, SUITE 1368 S
 115 W. WASHINGTON STREET
 INDIANAPOLIS, IN 46204
 PHONE: (317) 266-8000

BY: _____ DATE: _____

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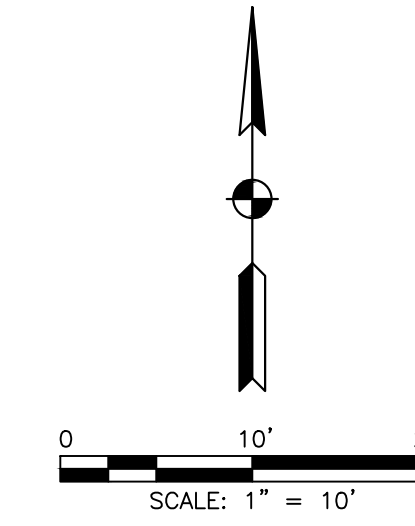
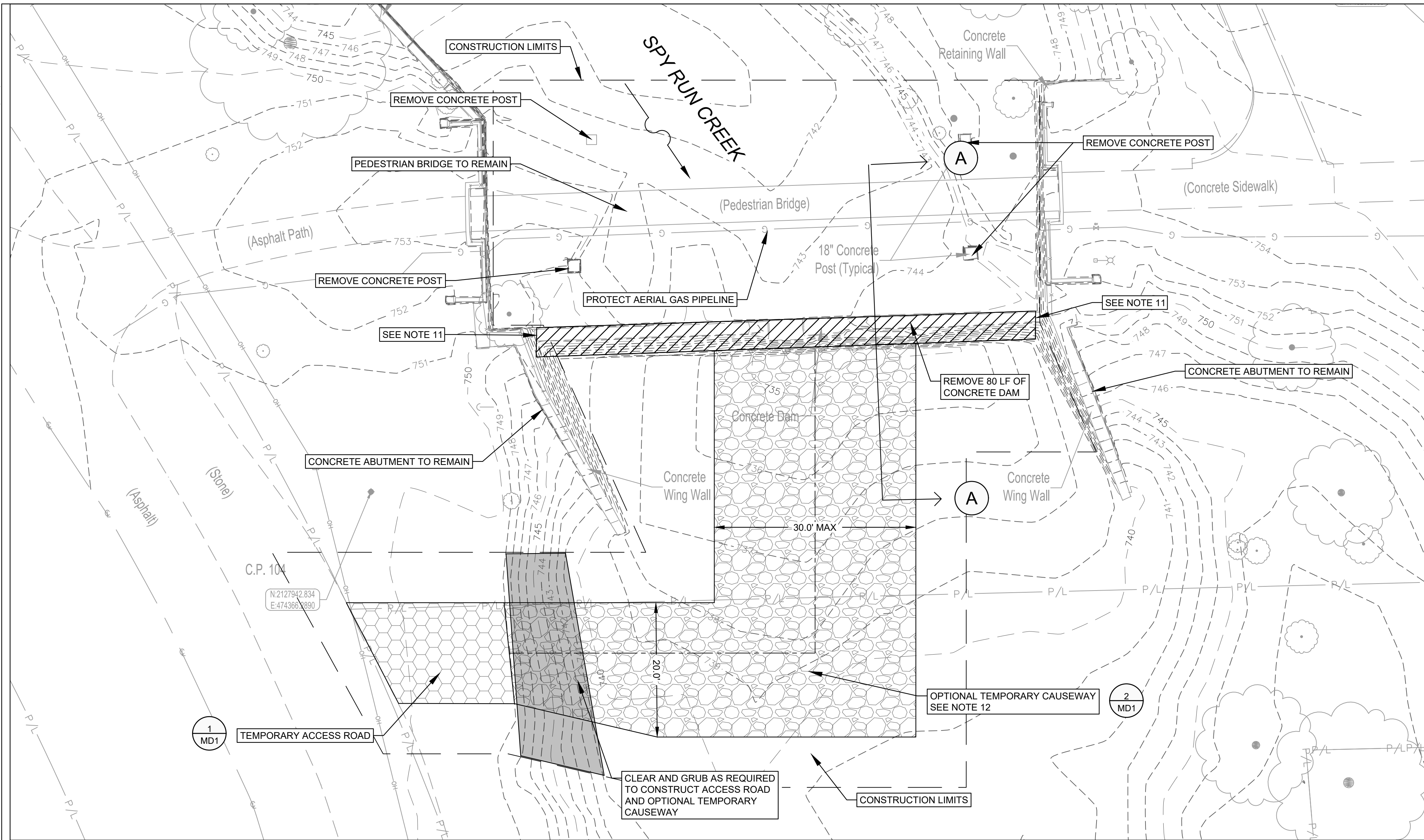
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**SITE PLAN -
 UPSTREAM DAM
 REMOVAL**

C-101-005
 SHEET 5 OF 10

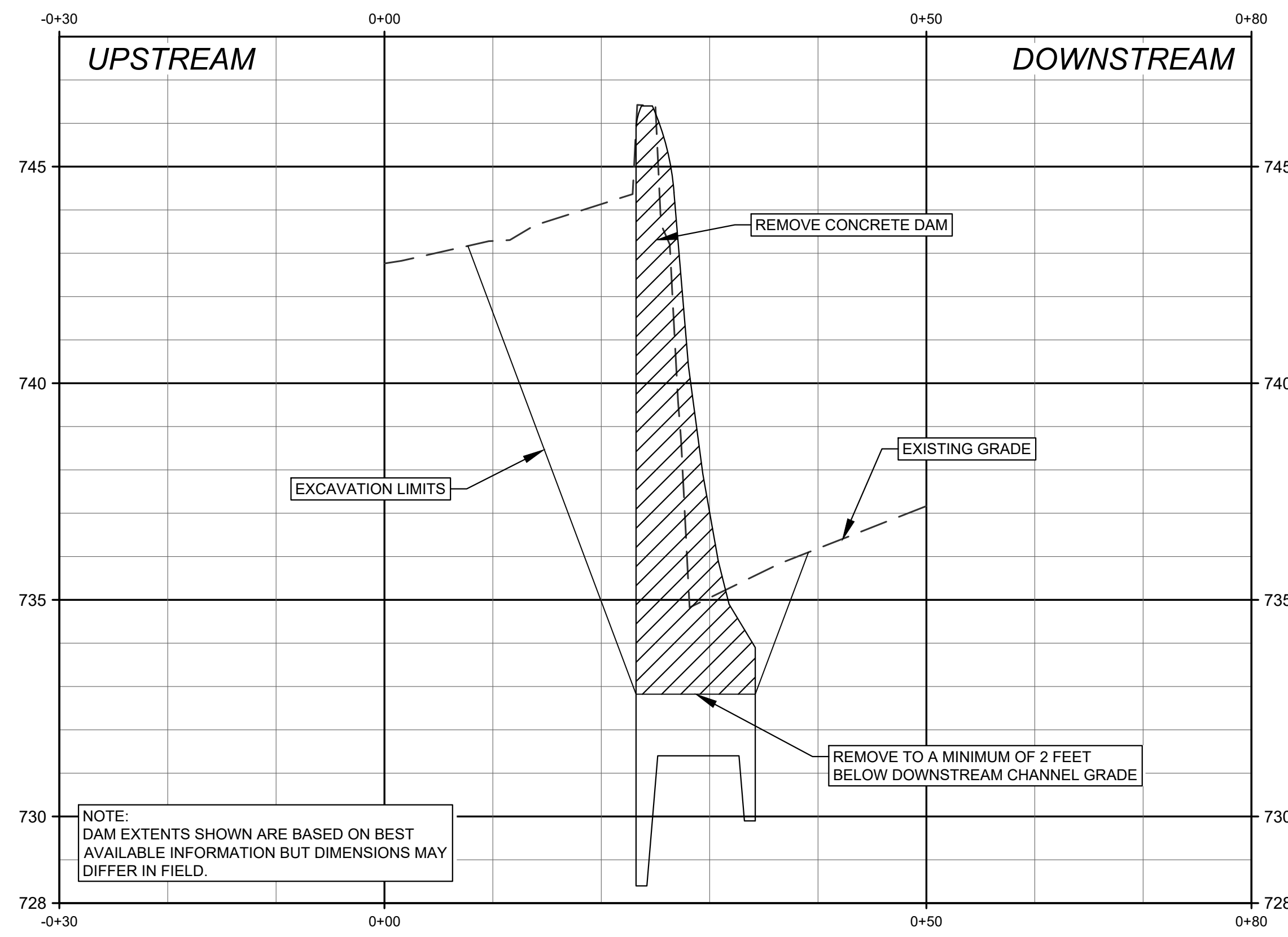


LEGEND:

- Boulder
- ◆ Control Point
- Guy Anchor
- ⊕ Light Pole
- ⊞ Power Pole
- Flag
- ⊗ Gas Valve
- Post
- Tree
- OH — Overhead Electric
- G — Gas Line
- SS — Sanitary Sewer
- P/L — Property Line
- ▨ Dam Removal
- ▨ Temporary Access Road
- ▨ Optional Temporary Causeway
- ▨ Clearing and Grubbing
- Construction Limits

NOTES:

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5. DO NOT EXCAVATE WITHIN THE RIVER EXCEPT FOR REMOVAL OF THE EXISTING DAM AND SEDIMENT AS INDICATED.
6. TAKE APPROPRIATE MEASURES TO MINIMIZE THE MOVEMENT OF RESUSPENDED BOTTOM SEDIMENT FROM THE IMMEDIATE PROJECT AREA.
7. RATE OF DRAWDOWN MAY NOT EXCEED 1 FOOT PER DAY. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING DETAILED SEQUENCING AND DEWATERING INFORMATION TO OWNER AND ENGINEER FOR APPROVAL. DOWNSTREAM DAM SHALL BE REMOVED FIRST.
8. DEWATERING DIRECTLY INTO THE RIVER IS PROHIBITED. UTILIZE DEWATERING BAGS OR OTHER APPROVED MEASURES.
9. DO NOT CUT ANY TREES SUITABLE FOR INDIANA BAT OR NORTHERN LONG-EARED BAT ROOSTING FROM APRIL 1 TO SEPTEMBER 30. SUCH TREES ARE GREATER THAN 3 INCHES DIAMETER AT BREAST HEIGHT, LIVING OR DEAD, WITH LOOSE HANGING BARK, OR WITH CRACKS, CREVICES, OR CAVITIES.
10. STABILIZE ALL BARE AND DISTURBED AREAS LANDWARD OF THE SHORELINE WITHIN ONE WEEK OF DISTURBANCE.
11. FIELD VERIFY CONNECTION OF DAM TO ABUTMENTS AND SUBMIT WORK PLAN TO OWNER AND ENGINEER FOR REMOVAL OF DAM AT THE ABUTMENTS. IT IS EXPECTED THAT FIELD VERIFICATION WILL OCCUR AFTER SUFFICIENT DEWATERING TAKES PLACE SUCH THAT THERE IS NO FLOW OVER THE DAM. NOTIFY OWNER AND ENGINEER PRIOR TO FIELD VERIFICATION.
12. TEMPORARY CAUSEWAY IS OPTIONAL. REMOVE AT THE END OF CONSTRUCTION. NO OTHER TEMPORARY IMPACTS BELOW THE ORDINARY HIGH WATER MARK ARE ALLOWED.



CROSS SECTION A-A

SHEET PREPARED BY:

CR
 BURKE
 CHRISTOPHER B. BURKE
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 115 W. WASHINGTON STREET
 INDIANAPOLIS, IN 46204
 PHONE: (317) 266-8000

SPY RUN CREEK DAM REMOVAL

PREPARED FOR:

FORT WAYNE
 CITY UTILITIES ENGINEERING
 CITIZENS SQUARE
 200 E. BERRY ST., STE 250
 FORT WAYNE, IN 46802

**30% PLANS
 NOT FOR
 CONSTRUCTION**

W.O. NO: 83947

DWG NO: ##-####

SURVEYED BY: APEX CONSULTING & SURVEYING

DRAWN BY: ABBY R. PETERSON, P.E.

DESIGNED BY: AARON J. FRICKE, P.E.

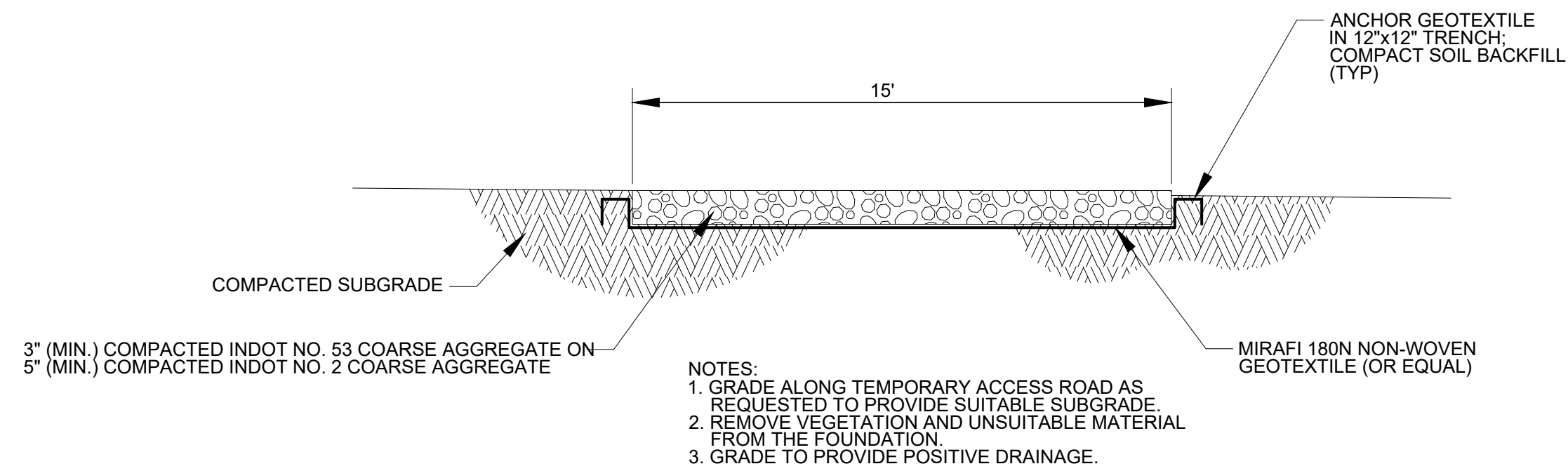
CHECKED BY: JEFFREY D. FOX, P.E.

APPROVED BY: AARON J. FRICKE, P.E.

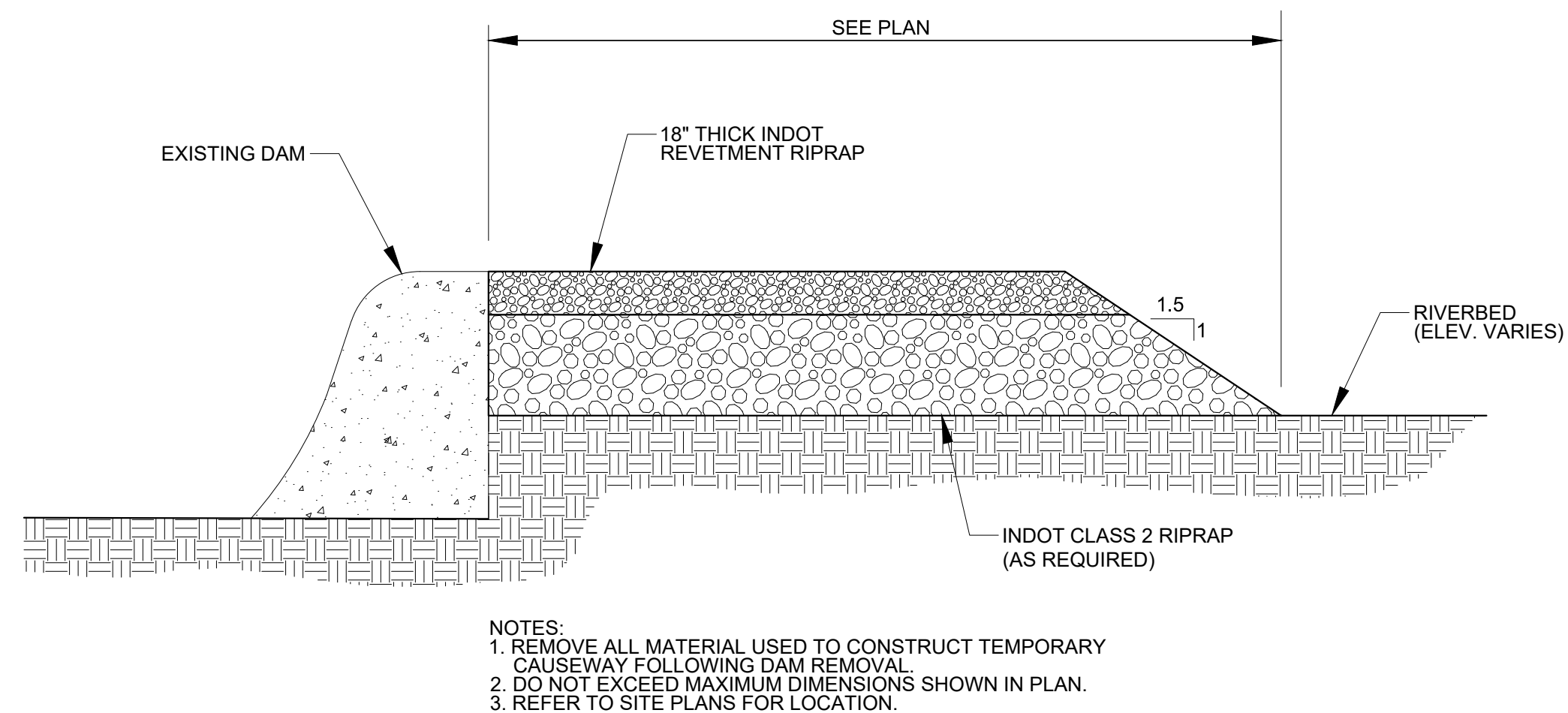
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SHEET TITLE:

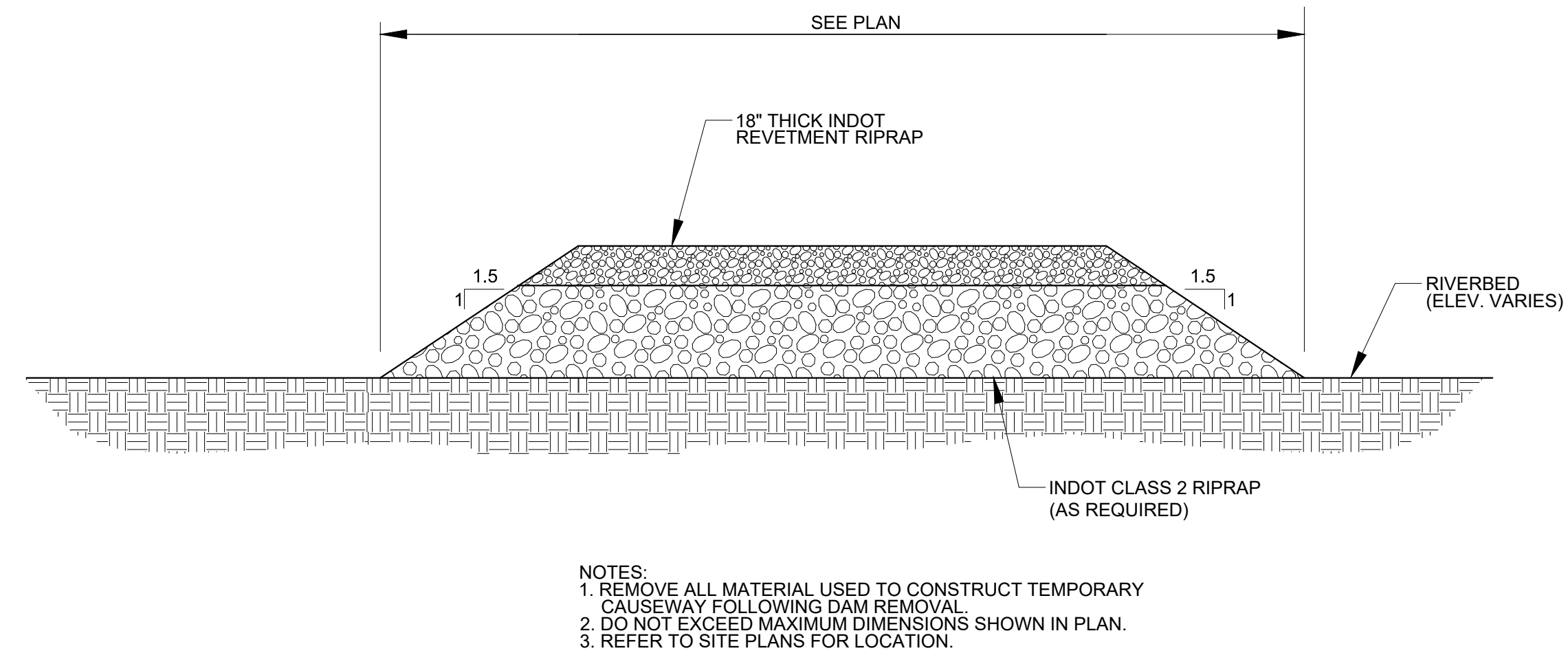
**SITE PLAN -
DOWNSTREAM DAM
REMOVAL**



1 TEMPORARY ACCESS ROAD
NOT TO SCALE



2 OPTIONAL UPSTREAM TEMPORARY CAUSEWAY
NOT TO SCALE



3 OPTIONAL DOWNSTREAM TEMPORARY CAUSEWAY
NOT TO SCALE

SHEET PREPARED BY:

BB BURKE
CHRISTOPHER B. BURKE
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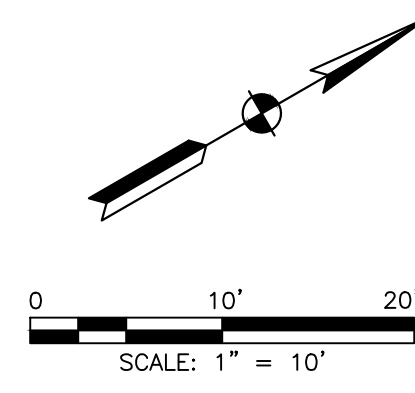
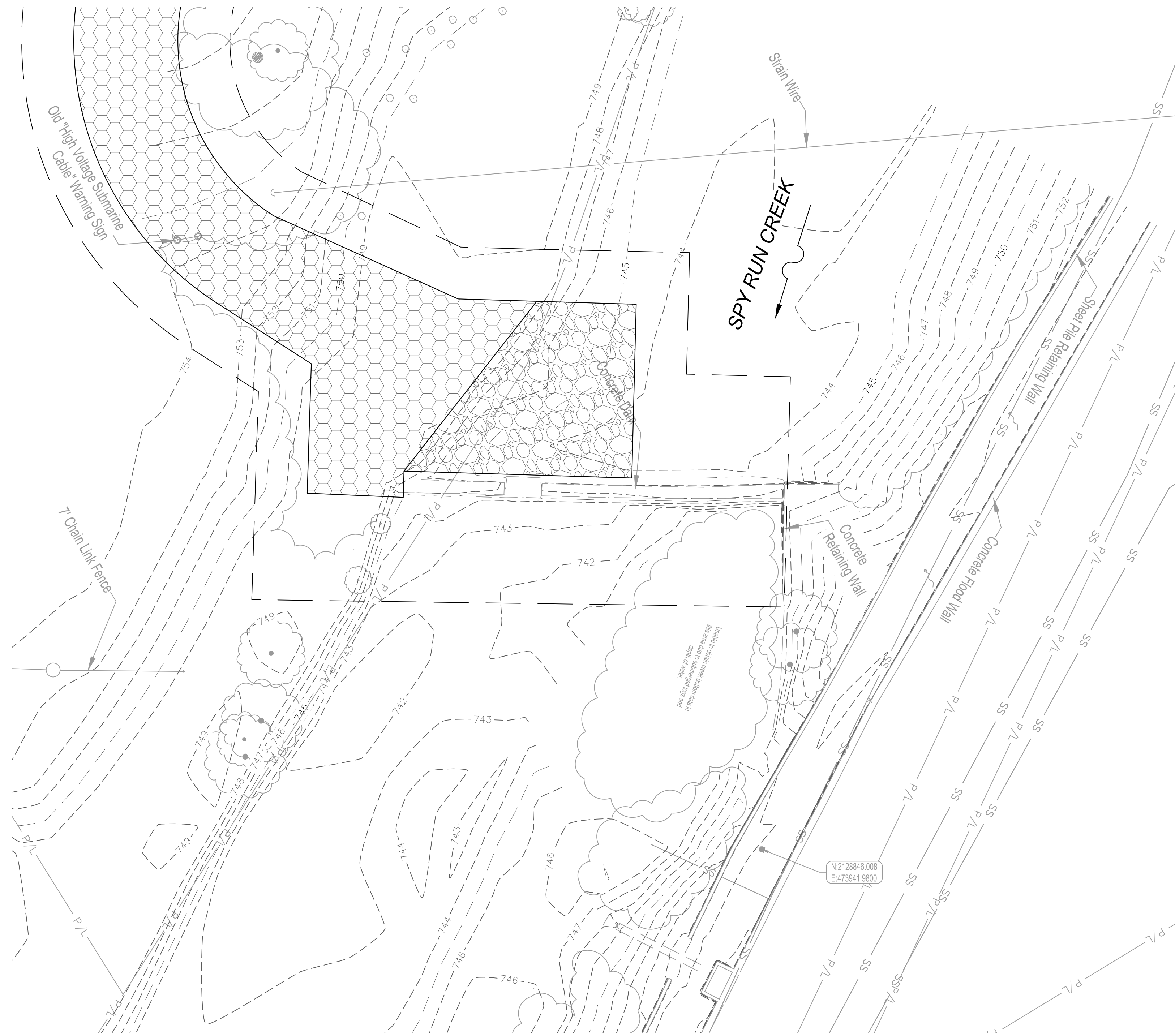
APPROVED BY:
AARON J. FRICKE, P.E.

DATE:

SHEET TITLE:

**MISCELLANEOUS
DETAILS**

C-103-007
SHEET 7 OF 10



LEGEND:

- Boulder
- ◆ Control Point
- Guy Anchor
- ⊕ Light Pole
- ⊞ Power Pole
- Flag
- ⊞ Gas Valve
- Post
- Tree
- OH — Overhead Electric
- ○ — Fence
- G — Gas Line
- SS — Sanitary Sewer
- P/L — Property Line
- ▭ Temporary Access Road
- ▭ Optional Temporary Causeway
- — Construction Limits

GENERAL NOTES:

- TOPOGRAPHIC AND PLANIMETRIC INFORMATION IS SHOWN PER A SURVEY PERFORMED BY APEX CONSULTING & SURVEYING, INC., DATED MARCH 1, 2024.
- THE BASE FLOOD ELEVATION OF SPY RUN AT THE DAM IS 757.0 FEET (NAVD 88) PER THE FEMA FLOOD INSURANCE STUDY FOR ALLEN COUNTY, INDIANA AND INCORPORATED AREAS, REVISED JANUARY 11, 2024.

EROSION CONTROL NOTES:

- TEMPORARY EROSION CONTROL FEATURES TO HELP PREVENT SEDIMENT FROM LEAVING THE SITE ARE SHOWN AT APPROXIMATE LOCATIONS.
- INSPECT EROSION CONTROL FEATURES AT LEAST WEEKLY AND AGAIN WITHIN 24 HOURS FOLLOWING EACH RAINFALL EVENT OF 0.5 INCH OR MORE. REMOVE ACCUMULATED SEDIMENT IMMEDIATELY. REPAIR OR REPLACE DAMAGED EROSION CONTROL FEATURES IMMEDIATELY.
- ROUTINELY REMOVE CONSTRUCTION DEBRIS AND WASTE FROM THE SITE.
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- INSTALL EROSION CONTROL BLANKET IN ALL AREAS TO BE SEEDED THAT ARE 4:1 (H:V) OR STEEPER.

GENERAL CONSTRUCTION SEQUENCE:

THE GENERAL CONSTRUCTION SEQUENCE HAS BEEN PREPARED FOR PROJECT GUIDANCE AND MAY BE ADJUSTED TO MEET CONTRACTOR'S SPECIFIC PLANS. HOWEVER, THE SEQUENCE OF STEPS 1-3 MAY NOT BE ALTERED. CONTRACTOR SHALL GENERALLY PERFORM THE FOLLOWING STEPS TO COMPLETE THE PROJECT.

- STAKE THE LIMITS OF CONSTRUCTION.
- INSTALL EROSION CONTROL MEASURES PRIOR TO LAND DISTURBING ACTIVITIES, INCLUDING INITIAL PERIMETER CONTROL.
- CONSTRUCT A TEMPORARY ACCESS ROAD(S) TO THE DAM.
- CONSTRUCT TEMPORARY CAUSEWAY.
- REMOVE THE DAM.
- REMOVE THE TEMPORARY CAUSEWAY.
- REMOVE THE TEMPORARY ACCESS ROAD(S).
- STABILIZE DISTURBED AREAS WITH TEMPORARY OR PERMANENT SEEDING AS SOON AS POSSIBLE WHEN WORK IS COMPLETE.
- THROUGHOUT CONSTRUCTION, CONTROL DUST ON THE PROJECT SITE. SWEEP STREETS AS NECESSARY TO KEEP CLEAN OF DIRT, DUST, AND CONSTRUCTION DEBRIS. PROPERLY DISPOSE OF ALL CLEARED MATERIAL.
- REMOVE ALL TEMPORARY CONTROL MEASURES UPON APPROVAL OF OWNER AND ENGINEER AND SUCCESSFUL ESTABLISHMENT OF VEGETATION AND PROJECT COMPLETION.

SHEET PREPARED BY:

 CHRISTOPHER B. BURKE
 ENGINEERING, LLC
 PNC CENTER, SUITE 1368 S
 115 W. WASHINGTON STREET
 INDIANAPOLIS, IN 46204
 PHONE: (317) 266-8000

BY: _____
 DATE: _____

BY: _____
 DATE: _____

SPY RUN CREEK DAM REMOVAL

PREPARED FOR:
 FORT WAYNE
 CITY UTILITIES ENGINEERING
 CITIZENS SQUARE
 200 E. BERRY ST., STE 250
 FORT WAYNE, IN 46802

**30% PLANS
 NOT FOR
 CONSTRUCTION**

W.O. NO: 83947

DWG NO: ##-####

SURVEYED BY: APEX CONSULTING & SURVEYING

DRAWN BY: ABBY R. PETERSON, P.E.

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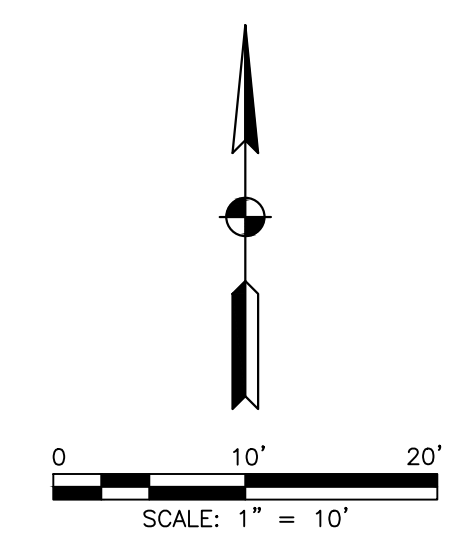
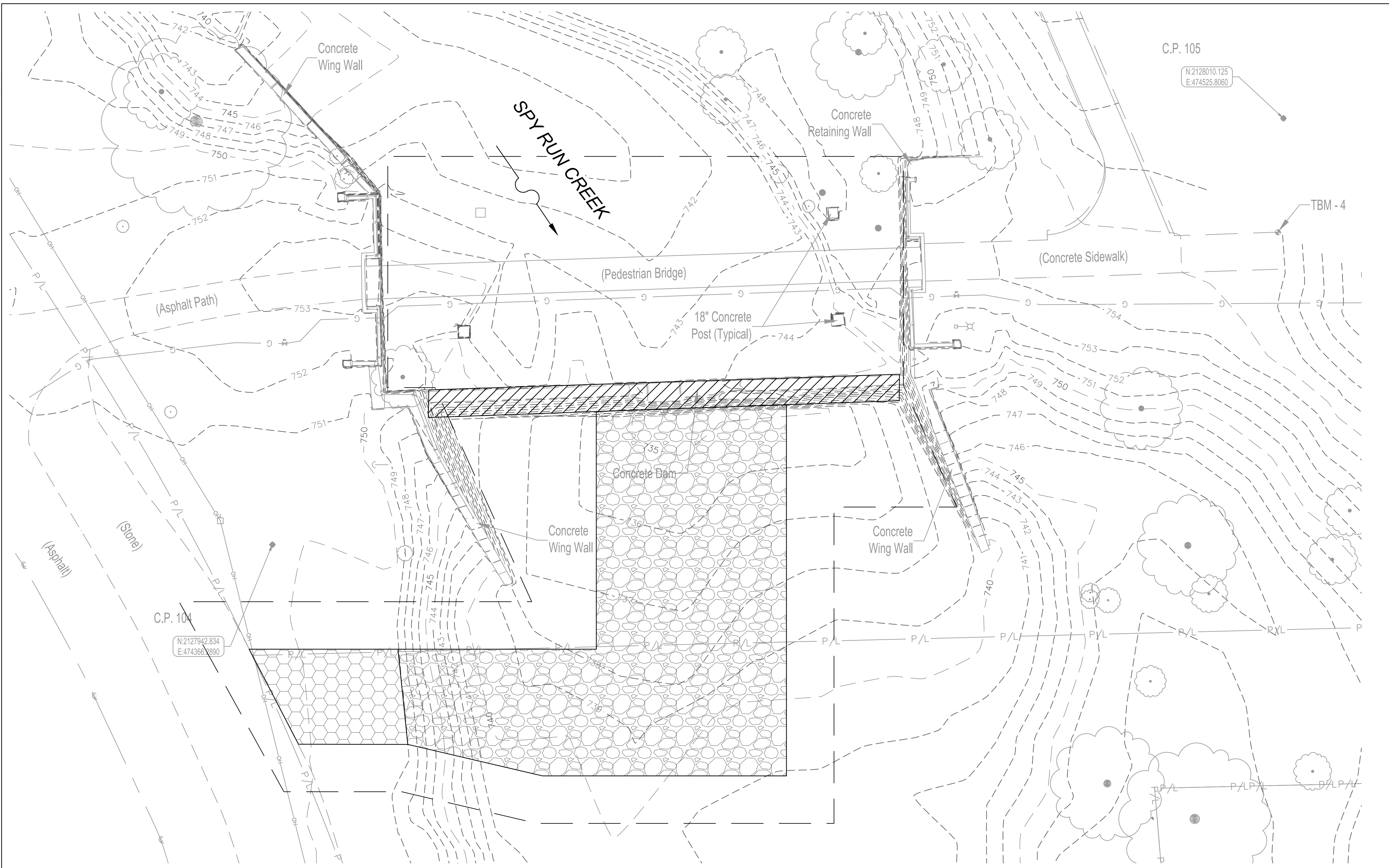
CHECKED BY: JEFFREY D. FOX, P.E.

APPROVED BY: AARON J. FRICKE, P.E.

DATE: _____

SHEET TITLE:

EROSION CONTROL PLAN - UPSTREAM DAM



LEGEND:

- Boulder
- ◆ Control Point
- Guy Anchor
- ⊕ Light Pole
- ⊞ Power Pole
- Flag
- ⊞ Gas Valve
- Post
- Tree

- OH — Overhead Electric
- ○ — Fence
- G — Gas Line
- SS — Sanitary Sewer
- PL — Property Line
- MD1 — Temporary Access Road
- MD2 — Optional Temporary Causeway
- — Construction Limits

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SHEET PREPARED BY:

 CHRISTOPHER B. BURKE
 ENGINEERING, LLC
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 115 W. WASHINGTON STREET
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 PHONE: (317) 266-8000

BY: _____ DATE: _____

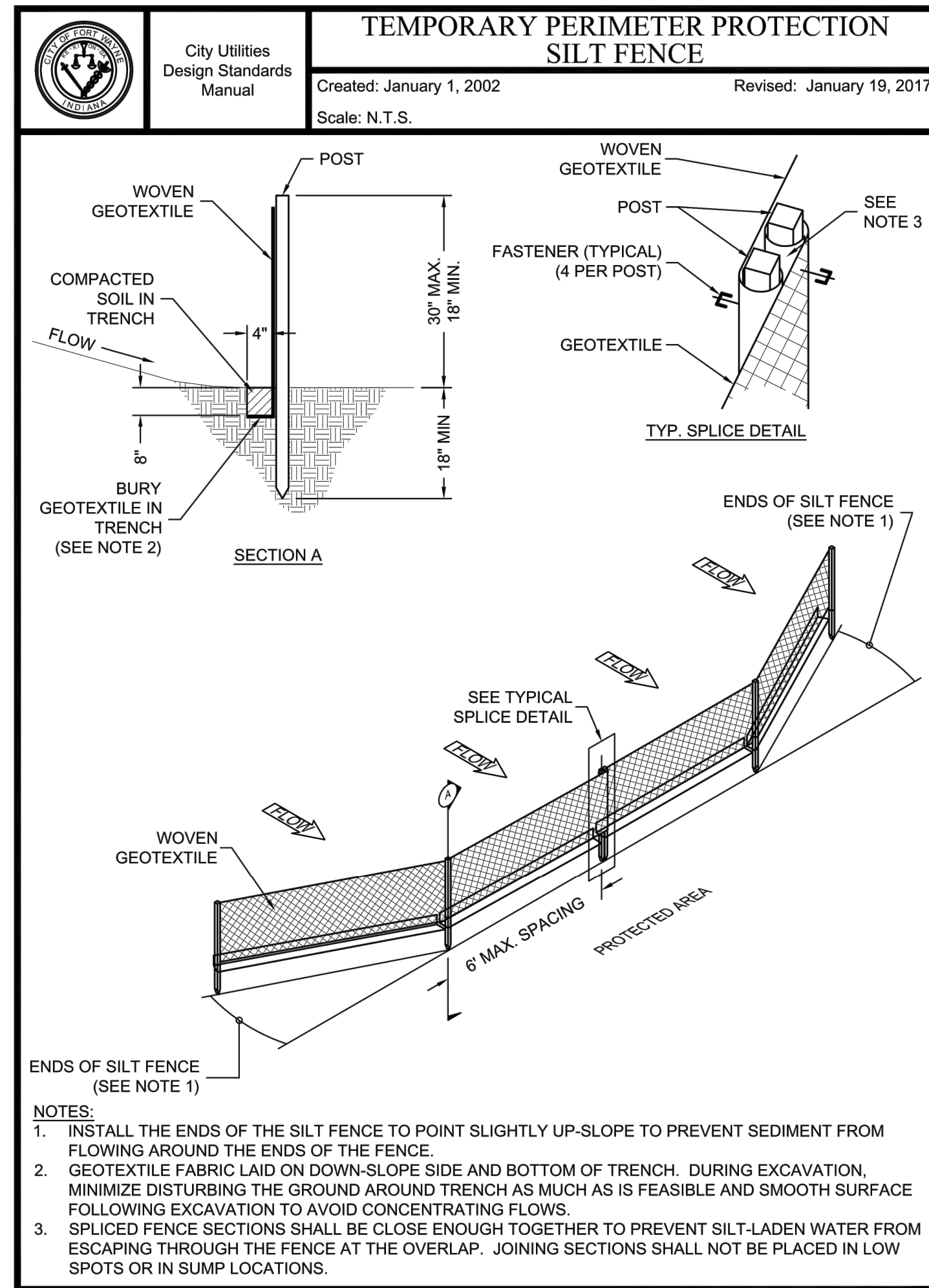
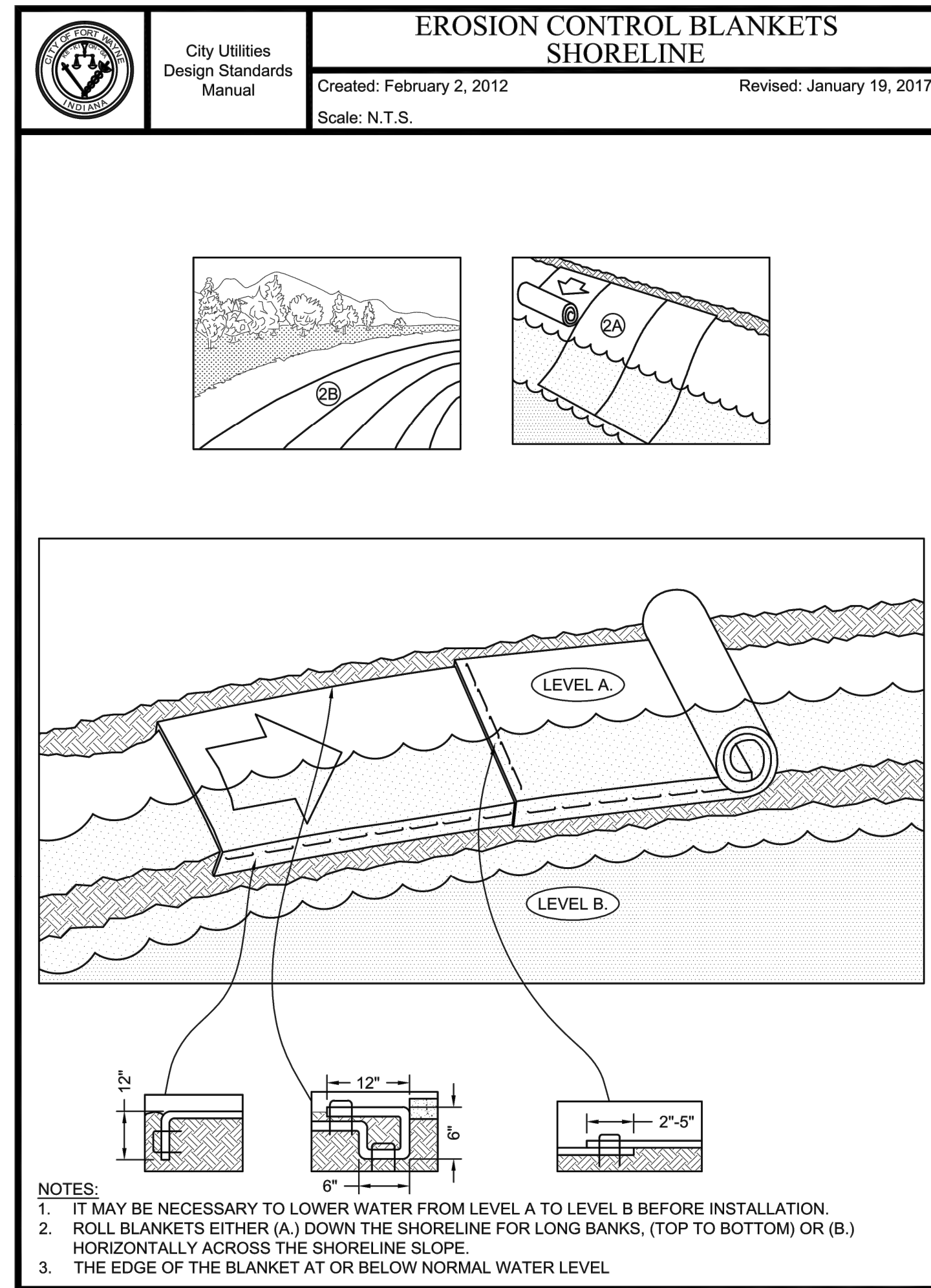
BY: _____ DATE: _____

PREPARED FOR:
 FORT WAYNE
 CITY UTILITIES ENGINEERING
 CITIZENS SQUARE
 200 E. BERRY ST., STE 250
 FORT WAYNE, IN 46802

**30% PLANS
 NOT FOR
 CONSTRUCTION**

W.O. NO: 83947
 DWG NO: ##-####
 SURVEYED BY: APEX CONSULTING & SURVEYING
 DRAWN BY: ABBY R. PETERSON, P.E.
 DESIGNED BY: AARON J. FRICKE, P.E.
 CHECKED BY: JEFFREY D. FOX, P.E.
 APPROVED BY: AARON J. FRICKE, P.E.
 DATE:
 SHEET TITLE:

**EROSION CONTROL
 PLAN -
 DOWNSTREAM DAM**
 C-105-009
 SHEET 9 OF 10



TEMPORARY/PERMANENT SEEDING SCHEDULE AND NOTES	TEMPORARY/PERMANENT SEEDING SCHEDULE AND NOTES											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
STABILIZATION PRACTICE												
PERMANENT SEEDING			A									
DORMANT SEEDING												
TEMPORARY SEEDING												
MULCHING												

SEEDING NOTES:

- FOR BEST RESULTS: (A) LEGUME SEED SHOULD BE INNOCULATED; (B) SEEDING MIXTURES CONTAINING LEGUMES SHOULD PREFERABLY BE SPRING-SEEDED, ALTHOUGH THE GRASS MAY BE FALL-SEEDED; AND (C) IF LEGUMES ARE FALL-SEEDED, DO SO IN EARLY FALL.
- AN OAT OR WHEAT COMPANION OR NURSE CROP MAY BE USED WITH ANY OF THE PERMANENT SEEDING MIXTURES; SEE "A" THIS SCHEDULE. IF SO, IT IS BEST TO SEED DURING THE FALL SEEDING PERIOD, ESPECIALLY AFTER SEPT. 15

A = CANADA WILD RYE 6 LBS./ACRE
 VIRGINIA WILD RYE 6 LBS./ACRE
 PERENNIAL RYEGRASS 65 LBS./ACRE
 JASPER RED FESCUE 10 LBS./ACRE
 LADINO CLOVER 1 TO 2 LBS./ACRE

B = ADD 50% MORE SEED TO MIXTURES IN "A" ABOVE

C = ANNUAL RYEGRASS 60 LBS./ACRE
 OATS (SPRING) 150 LBS./ACRE
 WINTER WHEAT (FALL) 150 LBS./ACRE

D = STRAW MULCH 2 1/2 TONS/ACRE WITH LIQUID BINDER

*/// = IRRIGATION NEEDED DURING JUNE, JULY AND/OR SEPTEMBER
 ** = IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD

TEMPORARY VEGETATION REQUIREMENTS:
 PLANT SPECIES SHALL BE SELECTED ON THE BASIS OF QUICK GERMINATION, GROWTH, AND TIME OF YEAR. SEEDING SHOULD BE DONE AS OFTEN AS POSSIBLE FOLLOWING CONSTRUCTION ACTIVITY. DAILY SEEDING OR ROUGH GRADED AREAS WHEN THE SOIL IS LOOSE AND MOIST IS USUALLY MOST EFFECTIVE.

INSTALLATION:
 TEMPORARY SEED BED PREPARATION:
 A. TEST SOIL TO DETERMINE ITS NUTRIENT LEVELS.
 B. FERTILIZE AS RECOMMENDED BY SOIL TESTING. IF TESTING IS NOT DONE, APPLY 400-600 LBS/ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER.
 C. WORK THE FERTILIZER INTO THE SOIL 2-4" DEEP WITH A DISC OR RAKE OPERATED ACROSS THE SLOPE.

TEMPORARY SEEDING:
 A. USE TEMPORARY SEED MIXTURE AS SPECIFIED ON PLANS.
 B. APPLY SEED UNIFORMLY WITH A DRILL OR CULTIPACKER-SEEDER OR BY BROADCASTING, AND COVER TO THE APPROPRIATE DEPTH FOR THE SEED USED.
 C. IF DRILLING OR BROADCASTING, FIRM THE SEEDBED WITH A ROLLER OR CULTIPACKER.
 D. MULCH SEEDED AREA TO INCREASE SEEDING SUCCESS. ANCHOR ALL MULCH BY TACKIFYING.

MAINTENANCE:
 INSPECT PERIODICALLY AFTER PLANTING TO ENSURE THAT VEGETATIVE STANDS ARE ADEQUATELY ESTABLISHED; RESEED IF NECESSARY. CHECK FOR EROSION DAMAGE AFTER STORM EVENT AND REPAIR; RESEED AND MULCH IF NECESSARY.

PERMANENT VEGETATION REQUIREMENTS:
 PLANT SPECIES SHALL BE SELECTED ON THE BASIS OF SOIL TYPE, SOIL PH, REGION OF THE STATE, TIME OF YEAR, AND PLANNED USE OF THE AREA TO BE SEEDED.

INSTALLATION:
 PERMANENT SEED BED PREPARATION:
 A. TEST SOIL TO DETERMINE PH AND NUTRIENT LEVELS.
 B. IF SOIL PH IS UNSUITABLE FOR THE SPECIES TO BE SEEDED, APPLY LIME ACCORDING TO TEST RECOMMENDATIONS.
 C. TILL THE SOIL TO OBTAIN A UNIFORM SEEDBED, WORKING THE FERTILIZER AND LIME INTO THE SOIL 2-4" DEEP WITH A DISC OR RAKE OPERATED ACROSS THE SLOPE.

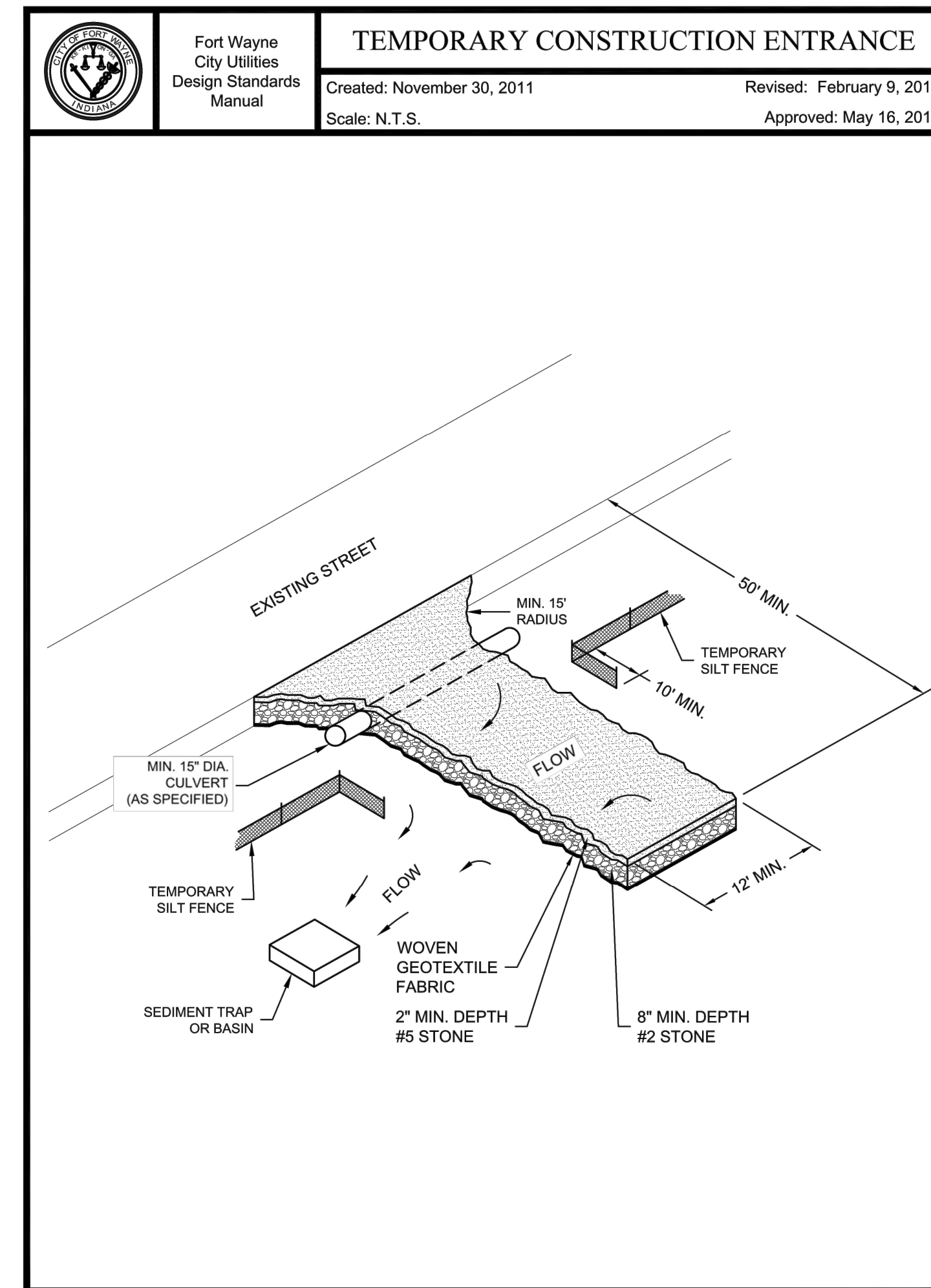
PERMANENT SEEDING:
 OPTIMUM SEEDING DATES ARE MARCH 1 THROUGH MAY 10 AND AUGUST 10 THROUGH SEPTEMBER 30. PERMANENT SEEDING DONE BETWEEN MAY 10 AND AUGUST 10 MAY NEED TO BE IRRIGATED. AS AN ALTERNATIVE, USE TEMPORARY SEEDING UNTIL THE PREFERRED DATE FOR PERMANENT SEEDING.

A. USE SEED MIX A AS SPECIFIED ON PLANS.
 B. APPLY SEED UNIFORMLY WITH A HYDROSEEDER, DRILL OR CULTIPACKER-SEEDER, OR BY BROADCAST, AND COVER TO A DEPTH OF 1/4 TO 3/8".
 C. IF DRILLING OR BROADCASTING, FIRM THE SEEDBED WITH A ROLLER OR CULTIPACKER.
 D. MULCH ALL SEEDED AREAS AND ANCHOR WITH A TACKIFYER.

MAINTENANCE:
 INSPECT PERIODICALLY, ESPECIALLY AFTER STORM EVENTS, UNTIL THE STAND IS SUCCESSFULLY ESTABLISHED (CHARACTERISTICS OF A SUCCESSFUL STAND INCLUDE: VIGOROUS DARK GREEN OR BLUE-ISH GREEN SEEDINGS; UNIFORM DENSITY WITH NURSE PLANTS, LEGUMES, AND GRASSES WELL INTERMIXED; AND THE PERENNIALS REMAINING GREEN THROUGHOUT THE SUMMER, AT LEAST AT THE PLANT BASE). ADD FERTILIZER THE FOLLOWING GROWING SEASON ACCORDING TO SOIL TEST RECOMMENDATION. REPAIR DAMAGED, BARE OR SPARSE AREAS BY FILLING ANY GULLIES, REFERTILIZING, OVER- OR RESEEDING. IF PLANT COVER IS SPARSE OR PATCHY, REVIEW THE PLANT MATERIAL CHOSEN, SOIL FERTILITY, MOISTURE CONDITION, AND MULCHING; THEN REPAIR THE AFFECTED AREA EITHER BY OVER-SEEDING OR RESEEDING AND MULCHING AFTER RE-PREPARING THE SEEDBED. IF VEGETATION FAILS TO GROW, PERFORM SOIL TESTING TO DETERMINE ACIDITY OR NUTRIENT DEFICIENCY PROBLEMS. IF ADDITIONAL FERTILIZATION IS NEEDED TO GET A SATISFACTORY STAND, DO SO ACCORDING TO SOIL TEST RECOMMENDATIONS.

SEEDING NOTES AND SCHEDULE

NOT TO SCALE



SHEET PREPARED BY:

CR BURKE
 CHRISTOPHER B. BURKE
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SPY RUN CREEK DAM REMOVAL

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 SHEET TITLE:
EROSION CONTROL PLAN - DETAILS
 C-201-010
 SHEET 10 OF 10