N O T I C E

A meeting of the City of Evansville Historic Preservation Commission will be held on the date and at the time stated below. Notice is further given that members of the City Council and the Park Board might be in attendance. Requests for persons with disabilities who need assistance to participate in this meeting should be made by calling City Hall: (608)-882-2266 with as much advance notice as possible. Please silence cell phones and electronic devices during the meeting.

City of Evansville **Historic Preservation Commission**
Regular Meeting
Wednesday, November 15, 2023
3rd Floor, City Hall, 31 S. Madison Street, Evansville, WI 53536
6:00 p.m.

AGENDA

1. Call to Order
2. Roll Call
3. Motion to approve the agenda.
4. Motion to waive the reading of the September 20, 2023 minutes and approve them as printed.
5. Civility reminder
6. Citizen appearances
7. Action Items
    A. Lake Leota Park – Repair Dam (HPC-2023-0345)
8. Discussion Items
9. Report of the Community Development Director
    A. Staff-Approved Certificates of Appropriateness
        i. 136 Garfield Ave – Replace Wood Fence with Same Materials (HPC-2023-0314)
        ii. 15-17 Mill Street – Replace Porch, Stairs with Same Materials (HPC-2023-0335)
        iii. 25 N Madison Street – Replace Sign Faces with New Copy (SIGN-2023-0305)
    B. Update on Direction for Certified Local Government Grant Application
10. Correspondence, Comments and Concerns
11. Next Meeting Date: December 20, 2023, 6:00 p.m.
12. Motion to Adjourn.

-Dan Stephans, Historic Preservation Chair

These minutes are not official until approved by the City of Evansville Historic Preservation Commission.

City of Evansville Historic Preservation Commission
Regular Meeting
Wednesday, September 20, 2023 at 6:00 p.m.
3rd Floor, City Hall, 31 S. Madison Street, Evansville, WI 53536

MINUTES

1. **Call to Order.** Stephans called the meeting to order at 6:00 pm

2. **Roll Call:**

Members	Present/Absent	Others Present
Chair Dan Stephans	P	
Vice-chair Gene Lewis	P	Shawn Miller, Applicant
Aimee Stano	P	Marry Libby, Applicant
Katie Sacker	P	Alan Titus, Applicant
Norman Barker	P	Janis Taylor, Applicant
Cheryl Doerfer	P	
Steve Christens	P	

3. ***Motion to approve the agenda by Christens, second by Barker. Motion carried unanimously.***

4. ***Motion to waive the reading of the minutes from the August 16 meeting and approve them as printed Motion by Christens, seconded by Stano, motion carried unanimously.***

5. **Civility Reminder.** Stephans noted the City's commitment to civil discourse.

6. **Citizen appearances and Public Presentations.**

7. **Applications – Action Items:**
   A. 38 W Main St – Replace Concrete Front Porch with Wood (HPC-2023-0261)

   Applicant Shawn Miller present. The applicant described the project and that he believes the proposal would restore the porch to a more historic appearance. Miller also expressed that the existing porch is a hazard. Some considerations regarding code compliance were discussed. ***Motion to approve the application by Christens seconded by Doerfer. Motion carried unanimously.***

   B. 112 W Church St – Replace Wood Windows with Vinyl (HPC-2023-0273)

   Applicant Mary Libby present along with Alan Titus. Alan Titus stated the portion of the building being discussed was not built until the 1960s and is not contributing. Stephans expressed that the wood is

deteriorated enough that they are unrepairable. ***Motion to approve the application by Lewis, seconded by Stano. Motion carried unanimously.***

C. 44 W Main St – Replace Back Porch (HPC-2023-0255)

Applicant Janis Taylor present. The applicant expressed that the existing porch was completely rotted. Applicants stated the decking would be the same dimensions and appearance as the other porches on the house. ***Motion to approve the application by Christens, seconded by Barker. Motion carried unanimously.***

8. Discussion Items

Historic Trees

Discussion was held regarding trees in the district and the maintenance of older trees and the importance of native trees.

9. Report of the Community Development Director

10. Correspondence, Comments and Concerns

Discussion was held regarding steel shingles which resemble clay tile shingles. Discussion was also held regarding compiling suggested options for window, siding, and roofing replacements.

11. Next Meeting Date: October 18, 2023 @ 6:00 p.m.

12. *Motion to Adjourn by Christens, second by Sacker. Motion carried unanimously.*

HP-09-19 (09/6/2019) For SHPO Use Only. Case # _____

REQUEST FOR SHPO REVIEW AND COMMENT ON A LOCAL UNIT OF GOVERNMENT ACTION

All materials must be submitted in hard-copy via US Postal or other mail carrier. We do not accept electronic project submittals. Submit one copy of this form and supporting materials for each undertaking requiring our review, pursuant to Wis. Stats. §§ 44.42 and 66.1111. Please print or type. Return to:

Wisconsin Historical Society
State Historic Preservation Office
816 State Street
Madison, WI 53706

Please provide all of the following information, as applicable:

I. GENERAL INFORMATION

☐ **This is a new submittal.**
☒ **This is supplemental information relating to Case #** 21-1690/RC **, and title** Leonard-Leota Park
☐ **This project is being undertaken pursuant to the terms and conditions of a programmatic or other memorandum of agreement.**

The title of the agreement is _____

A. Local Unit of Government Jurisdiction (governmental entity undertaking the project): City of Evansville, WI

B. Local Unit of Government Project Contact: Jason Sergeant, City Administrator

C. Return Address: 31 S Madison St. City: Evansville, WI Zip Code: 53536

D. Telephone: 608-882-2285 FAX: _____

E. Email Address: jason.sergeant@ci.evansville.wi.gov

F. Project Name: Leonard-Leota Park; Lake Leota Dam Spillway Repair

G. Project Street Address: Antes Drive

H. City: Evansville Zip Code: 53536 County: Rock

I. Project Location: Township 4, Range 10, East ☒ or West ☐, Section 27, Quarter Sections NE 1/4 NW 1/

J. Project Narrative Description: Attach information including activity summary, plan drawings/specifications, current photographs of the affected property.

K. Area of Potential Effect (APE): Attach a copy of U.S.G.S. 7.5 minute topographic quadrangle showing APE, and/or other maps as appropriate.

II. IDENTIFICATION OF NATIONAL REGISTER OR STATE REGISTER-LISTED HISTORIC PROPERTIES

☒ National Register and/or State Register-Listed Historic Properties are located within the project APE. Attach supporting information identifying said properties.

III. FINDINGS

☐ No National Register and/or State Register-Listed Historic Property or Properties may be affected. Attach supporting documentation.
☒ The proposed undertaking may affect one or more National Register and/or State Register-Listed Historic Properties located within the project APE. Attach supporting documentation.

Authorized Signature: _____ Date: 9/26/2023

Type or Print Name: Jeffrey D. Reynolds

IV. STATE HISTORIC PRESERVATION OFFICE COMMENTS

☐ SHPO concurs in the findings identified above.
☐ The proposed undertaking will not result in an adverse effect to one or more historic properties.
☐ The proposed undertaking will result in an adverse effect to one or more historic properties.
☐ SHPO requires negotiation with the Local Unit of Government to resolve the adverse effect.
☐ SHPO objects to the finding for reasons indicated hereon or in the attached letter.
☐ SHPO cannot review this submittal for reasons indicated hereon or in the attached letter.

Authorized Signature: _____ Date: _____

Lake Leota Dam Spillway Repairs

City of Evansville, WI

Property Description

NE ¼th NW ¼th Section 27, T-02-N, R-10-E, City of Evansville, Rock County, WI.

National and State Register of Historic Places

National / State Register Listing name: Leonard-Leota Park
National Register Listing Date: 9/4/2012
State Register Listing Date: 8/19/2011
Reference Number: 74758

Project Purpose and Description

The City of Evansville proposes to rehabilitate the Lake Leota Dam Spillways due to the deterioration and weathering of the spillways. The method to accomplish this work will be to create a temporary cofferdam with sheet piling, dredging and dewatering work area, adding reinforced concrete on the front side, top and Lake side surfaces of the spillways, removing temporary cofferdam, and any other work necessary to complete the repairs.

Need:

The dam is currently showing signs of deterioration and weathering. The work is needed to preserve the service life of the dam as continued deterioration and weathering will open the dam up to a greater risk of sudden failure during flood conditions. Thorough inspection of the first spillway, completed after Cofferdam installation, dredging and dewatering indicated more significant deterioration than previously expected, thus requiring more extensive Concrete spillway repair work.

Effect:

Addition of a reinforced Concrete "Cap" on the Face, Top and Lake side surfaces of the existing structures will allow repairs to be completed, while maintaining the aesthetic curvature of each Spillway in Plan view. The slight change in the Profile view of the Face of spillway is necessary to improve the flow characteristics of the spillway, and to maintain enough depth of concrete over the reinforcement steel, to reduce the risk of cracking, delamination, and popouts due to moisture and freeze-thaw cycles.

Construction Schedule Start/End Dates:

Initial construction on this project began the early spring months of 2023 and was intended to be completed in the spring of 2023. Extensive deterioration of the concrete on the spillway structures resulted in additional design required to rehabilitate the existing structures. Subsequent construction to complete the repairs on the spillways to commence upon State and Local approvals with the first spillway to be completed late Fall of 2023, with the second spillway to be completed Spring of 2024

Avoidance and Minimization:

There will be no wetland impacts since the work and staging area will be outside of the mapped wetland area and wetland indicator areas (See attached Wetland Map Area).

Guidelines to Assist with Your Submittal

Identify Historic Property that is listed on the National Register or State Register of Historic Places: All Wisconsin National Register or State Register of Historic Places listings are searchable on our website: wihist.org/NR-Records. Each listing has a digital record providing basic information about the property.

Effect: Will your project change, replace, augment, add to, diminish, or otherwise alter physical properties of the listed property itself or its setting, whether such impact is perceived to be positive or negative?

Narrative: Describe your project briefly including the problem or needs you are addressing, the options you have considered, and the option you have chosen to pursue.

APE: Space within which the project will have immediate impact. Also, space within which there may be collateral/secondary impact. Provide a map showing the location of your property/project. USGS topographic-type maps are helpful (these may be obtained through the internet or from the US Geological Survey for free: (https://viewer.nationalmap.gov/basic/); you may supply additional maps as necessary including plat or street (using Google or MapQuest, for example) to assist us in identifying your project location.

Supporting materials: Provide copies of all plan details, including drawings and other specifications. Include information on each of the options considered. Provide cost assessments/comparisons of options considered. Provide current (and historic, if relevant) photos of the property, including specific photos of the areas of the property to be affected.

Section I: General Information: Check the appropriate boxes, and fill in all information as requested, referring to the above guidelines as necessary.

Section II: Identification of Listed Properties: Search the WHS database or local records to confirm presence or absence of a property listed on the State Register or National Register of Historic Places. Copy this information to include with your submittal. If there are no such properties, you do not submit materials to our office for review.

Section III: Findings: Using the guidelines above, assess any effect(s) on the State Register or National Register-listed property. If there will be no effect, check that box. If there is no effect, you are not required to submit materials to our office for review. However, you may submit materials and we will evaluate your findings. If there may be an effect, check that box.

Section IV: SHPO Comments: We will determine whether your project may adversely affect the identified listed property. If there may be an adverse effect, we may request additional information; we may suggest a change to your project plans; we may acknowledge the adverse effect and conclude our review. In any case of adverse effect, we may require negotiation with the Unit of Government to avoid, minimize or otherwise mitigate the adverse effect. We will indicate our response on the form, and will return the form to you.

The law requires we respond to you within 30 days of our receipt of your submittal. If necessary, we may request an additional 30 days to review your project. If we do not respond to you within 30 days of our receipt of your submittal, there is a statutory presumption that we have no further comments on your project. You may then proceed with your project as designed at the time of the submittal.

With any questions, please the Wisconsin Historical Society at (608) 261-2457 or compliance@wisconsinhistory.org.

Lake Leota Dam Project Location

Legend

- Township
- Section
- Quarter-Quarter
- County Boundary
- Cities, Towns & Villages
  - City
  - Village
  - Civil Town
- Municipality
- State Boundaries
- County Boundaries
- Major Roads
  - Interstate Highway
  - State Highway
  - US Highway
- County and Local Roads
  - County HWY
  - Local Road
- Railroads
- Tribal Lands
- Index to EN_Image_Basemap_Leaf_Off

Notes

0.3 0 0.13 0.3 Miles

NAD_1983_HARN_Wisconsin_TM

1: 7,920

PROPERTY RECORD

LEONARD-LEOTA PARK

Architecture and History Inventory





NAMES

Historic Name: **LAKE LEOTA DAM**
Other Name:
Contributing: **Yes**
Reference Number: **74758**

PROPERTY LOCATION

Location (Address): **LEONARD-LEOTA PARK**
County: **Rock**
City: **Evansville**
Township/Village:
Unincorporated Community:
Town:
Range:
Direction:
Section:
Quarter Section:
Quarter/Quarter Section:

PROPERTY FEATURES

Year Built: **1923**
Additions:
Survey Date: **2010**
Historic Use: **dam**
Architectural Style: **NA (unknown or not a building)**
Structural System: **Reinforced Concrete**
Wall Material: **Concrete**
Architect: **E. B. PARSONS/R. H. PETERSON & SONS**
Other Buildings On Site:
Demolished?: **No**
Demolished Date:

NATIONAL AND STATE REGISTER OF HISTORIC PLACES

National/State Register Listing Name: **Leonard-Leota Park**
National Register Listing Date: **9/4/2012**
State Register Listing Date: **8/19/2011**
National Register Multiple Property Name:

NOTES

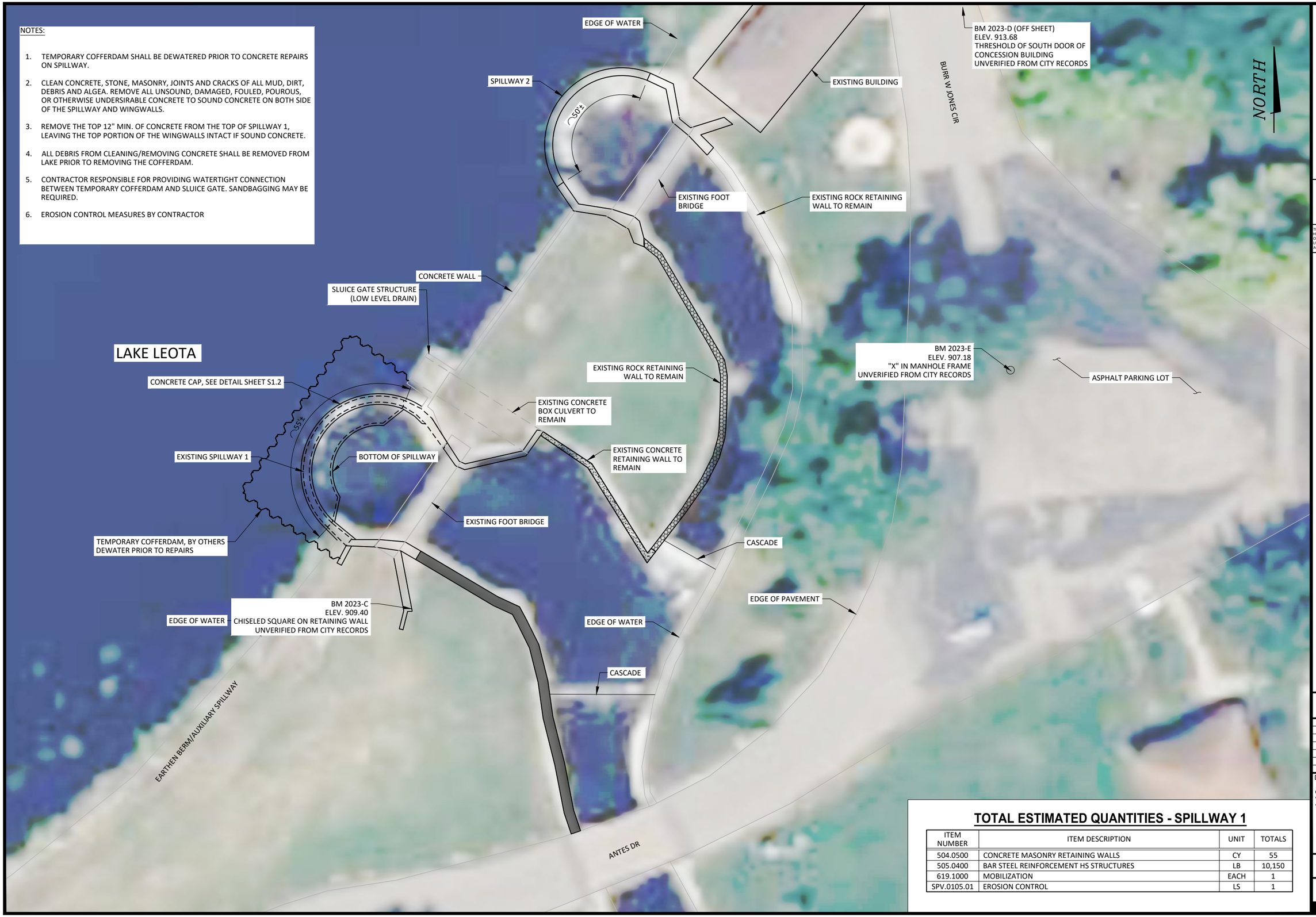
Additional Information: THE DAM WAS BUILT TO A DESIGN DRAWN BY THE CITY OF EVANSVILLE'S ENGINEER, E. B. PARSONS, AND IT WAS BUILT IN 1923 BY R. H. PETERSON & SONS OF OREGON, WI.

Additional records associated with this property: Leonard and Leota Parks (AHI 29139), Leota Park Bell Tower (AHI 140860), Henneberry Shelter House (AHI 140861), Leota Park Bath House (AHI 140943), Leonard-Leota Park Skater#25;s Warming House and Bandstand (AHI 140944), Leota Park Store Building (AHI 140945), Leota Park Antes Drive Bridge (AHI 171381), Allen#25;s Creek Straightening and Rip-Rapping (AHI 171441), Lake Leota Dam Stepped Falls (AHI 171461), Leota Park Horseshoe Lagoon (East) (AHI 171501), Leota Park North Baseball Diamond Bathroom Building (AHI 171761), Leota Park Horseshoe Lagoon (West) (AHI 171481), Allen#25;s Creek Foot Bridge (AHI 171801).

Bibliographic References: Williams, B. Keith. Evansville City Parks: 1883-1986. Evansville, WI: Star Printing CO., 1987, P. 22. Heggland, Timothy F. Leonard-Leota Park Historic District National Register of Historic Places Nomination Form. January 17, 2011.

NOTES:

1. TEMPORARY COFFERDAM SHALL BE DEWATERED PRIOR TO CONCRETE REPAIRS ON SPILLWAY.
2. CLEAN CONCRETE, STONE, MASONRY, JOINTS AND CRACKS OF ALL MUD, DIRT, DEBRIS AND ALGEA. REMOVE ALL UNSOUND, DAMAGED, FOULED, POUROUS, OR OTHERWISE UNDERSIRABLE CONCRETE TO SOUND CONCRETE ON BOTH SIDE OF THE SPILLWAY AND WINGWALLS.
3. REMOVE THE TOP 12" MIN. OF CONCRETE FROM THE TOP OF SPILLWAY 1, LEAVING THE TOP PORTION OF THE WINGWALLS INTACT IF SOUND CONCRETE.
4. ALL DEBRIS FROM CLEANING/REMOVING CONCRETE SHALL BE REMOVED FROM LAKE PRIOR TO REMOVING THE COFFERDAM.
5. CONTRACTOR RESPONSIBLE FOR PROVIDING WATERTIGHT CONNECTION BETWEEN TEMPORARY COFFERDAM AND SLUICE GATE. SANDBAGGING MAY BE REQUIRED.
6. EROSION CONTROL MEASURES BY CONTRACTOR



TOTAL ESTIMATED QUANTITIES - SPILLWAY 1

ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTALS
504.0500	CONCRETE MASONRY RETAINING WALLS	CY	55
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	10,150
619.1000	MOBILIZATION	EACH	1
SPV.0105.01	EROSION CONTROL	LS	1

JEWELL associates engineers, inc.
Engineers - Architects - Surveyors

560 Sunrise Drive
Spring Green, WI 53588
phone: 608-588-7484

Lake Leota Dam Repairs
Evansville, Wisconsin

Date
1-16-23

Date	Revision

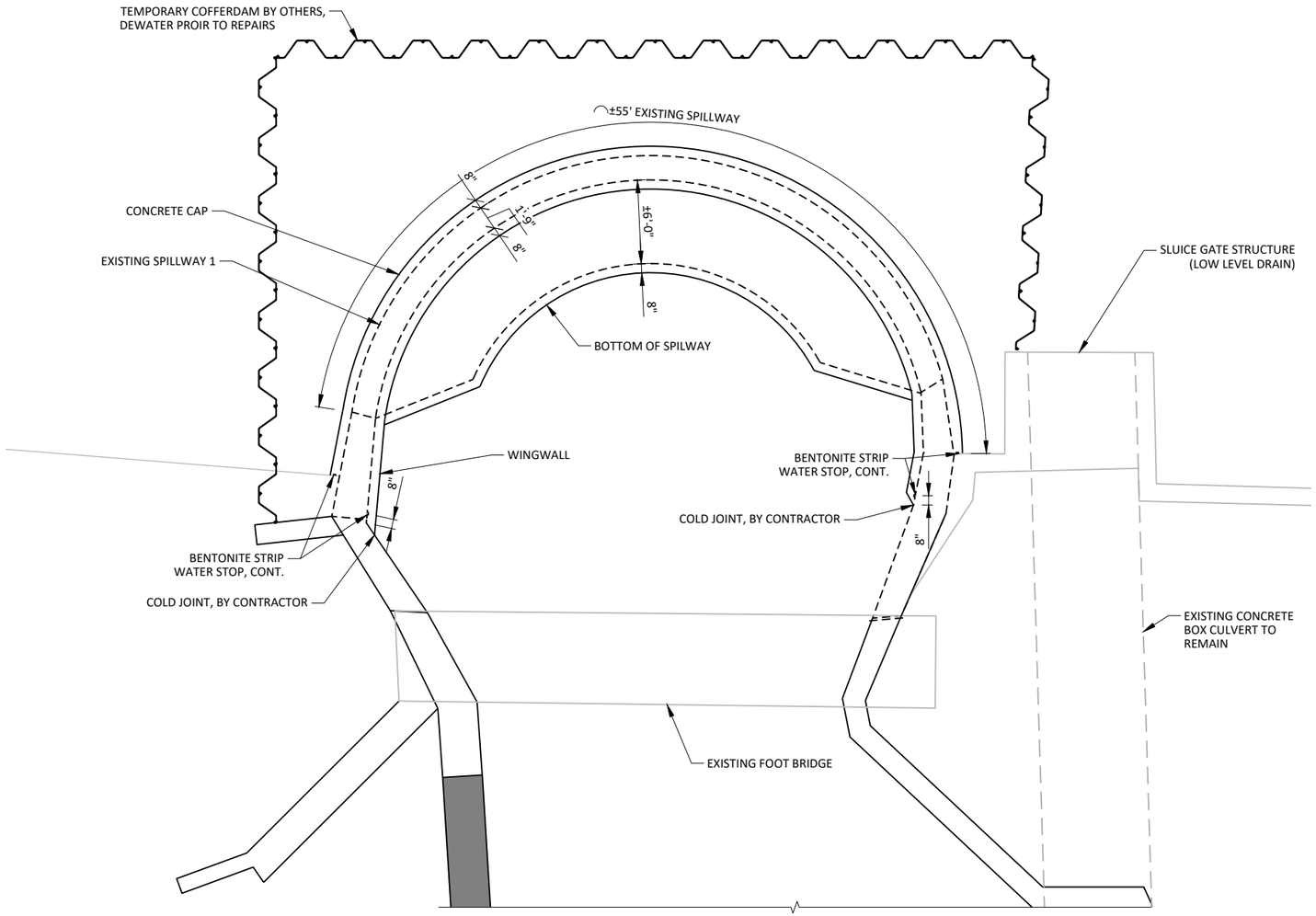
Drawing Name
SPILLWAY 1 PLAN VIEW

Sheet No.
S1.0

Project Number
E29120

NORTH

LAKE LEOTA



SPILLWAY 1 PLAN VIEW

CONSTRUCTION SEQUENCE:

1.1 TEMPORARY COFFERDAM 1 IS ALREADY INSTALLED.
1.2 PROVIDE WATERPROOF SEAL FOR TEMPORARY COFFERDAM 1.
1.3 DEWATER TEMPORARY COFFERDAM 1.
1.4 DREDGE LAKE BETWEEN TEMPORARY COFFERDAM 1 AND SPILLWAY 1.
1.5 DEWATER DOWNSTREAM SIDE OF SPILLWAY 1.
1.6 CLEAN BOTH SIDES OF EXISTING SPILLWAY 1. REMOVE ANY LOOSE DEBRIS, SOIL, SLURRY, ETC.
1.7 PREPARE EXISTING CONCRETE PER STANDARD SPECIFICATIONS.
1.8 INSTALL NEW SPILLWAY CAP PER PLANS.
1.9 ALLOW CONCRETE CAP ADEQUATE TIME TO CURE PER STANDARD SPECIFICATIONS AND REMOVE FORMS.
1.10 REWATER TEMPORARY COFFERDAM 1.
1.11 REMOVE TEMPORARY COFFERDAM 1 (BY OTHERS).

2.1. INSTALL TEMPORARY COFFERDAM 2 AT THE NORTH SPILLWAY (SPILLWAY 2)
2.2 DEWATER TEMPORARY COFFERDAM 2.
2.3 DREDGE LAKE BETWEEN TEMPORARY COFFERDAM 2 AND SPILLWAY 2.
2.4 DEWATER DOWNSTREAM SIDE OF SPILLWAY 2.
2.5 CLEAN BOTH SIDES OF EXISTING SPILLWAY 2. REMOVE ANY LOOSE DEBRIS, SOIL, SLURRY, ETC.
2.6 PREPARE EXISTING CONCRETE PER STANDARD SPECIFICATIONS.
2.7 INSTALL NEW SPILLWAY CAP PER PLANS.
2.8 ALLOW CONCRETE CAP ADEQUATE TIME TO CURE PER STANDARD SPECIFICATIONS AND REMOVE FORMS.
2.9 REWATER TEMPORARY COFFERDAM 2.
2.10 REMOVE TEMPORARY COFFERDAM 2.

JEWELL associates engineers, inc.
Engineers - Architects - Surveyors

560 Sunrise Drive
Spring Green, WI 53588
phone: 608-588-7484

Lake Leota Dam Repairs
Evansville, Wisconsin

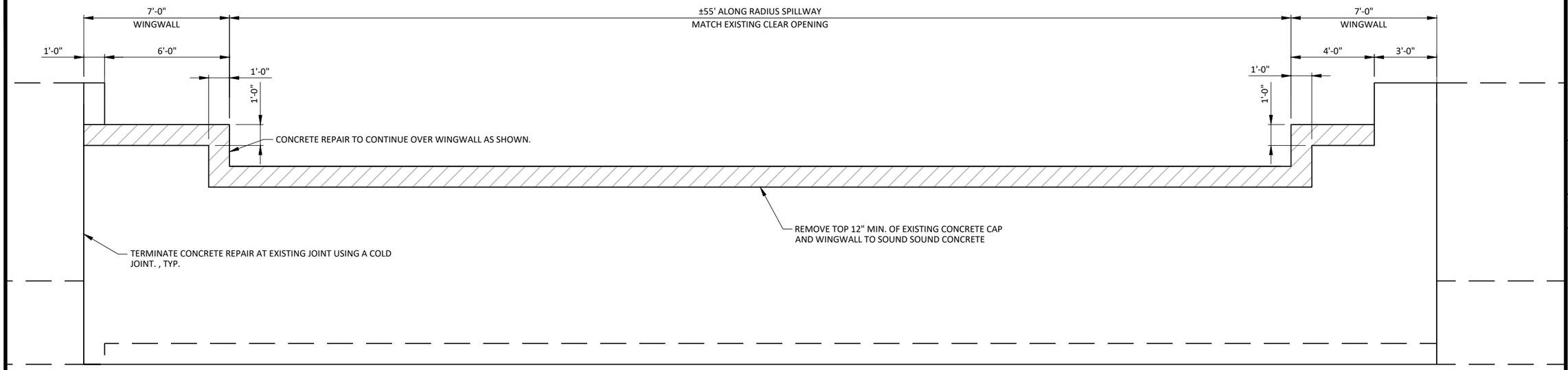
Date
1/16/2023

Date	Revision

Drawing Name
SPILLWAY 1 PLAN VIEW

Sheet No.
S1.2

Project Number
E29120



SPILLWAY 1 ELEVATION

SPILLWAY 1 ELEVATION PHOTOS

JEWELL associates engineers, inc.
Engineers - Architects - Surveyors

560 Sunrise Drive
Spring Green, WI 53588
phone: 608-588-7484

Lake Leota Dam Repairs
Evansville, Wisconsin

Date
1/16/2023

Date	Revision

Drawing Name
SPILLWAY 1 ELEVATION VIEW

Sheet No.
S1.3

Project Number
E29120

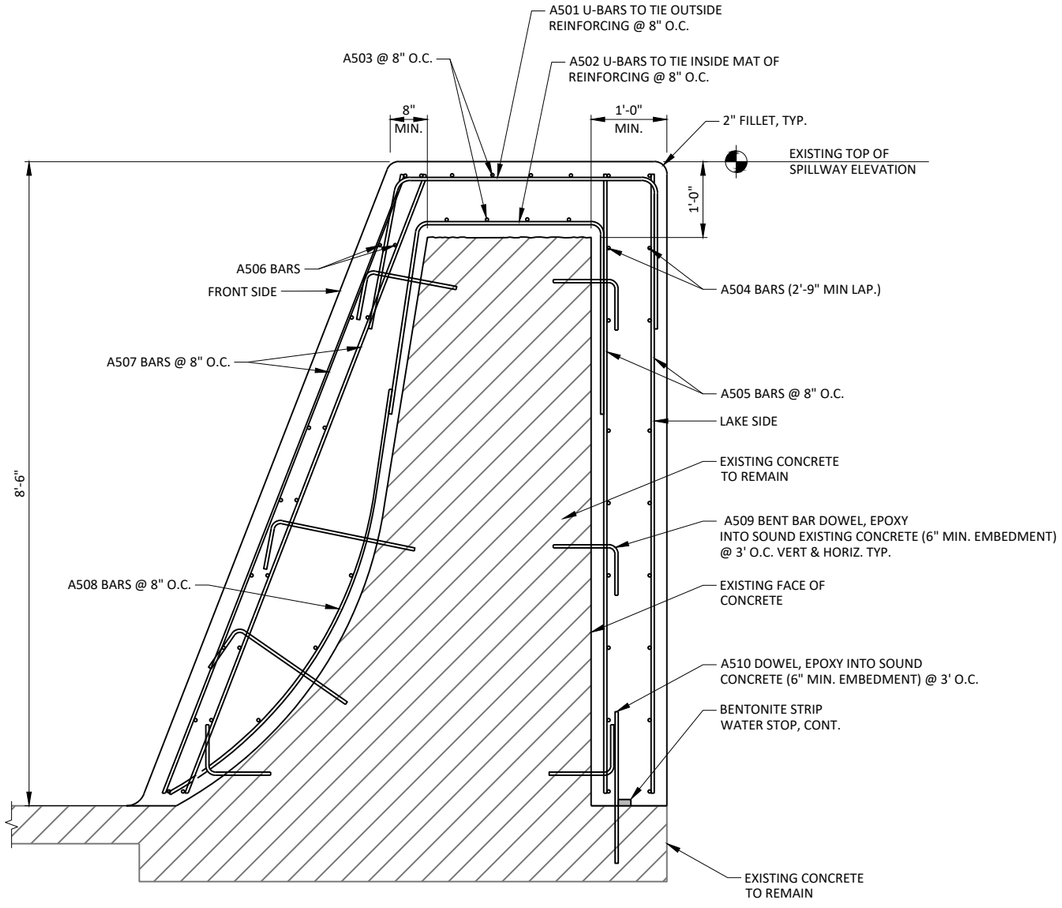
BILL OF BARS
SPILLWAY 1 SHOWN

10,150 LB (UNCOATED)

BAR MARK	NO. REQ'D.	LENGTH	BENT	COAT	BAR SERIES	LOCATION
A501	83	7-1	X			SPILLWAY - TOP.
A502	83	5-11	X			SPILLWAY - TOP
A503	16	36-0	X			SPILLWAY - TOP. - HORIZ.
A504	36	37-2	X			LAKE SIDE - HORIZ.
A505	166	8-2				LAKE SIDE - VERT.
A506	42	36-2	X			FRONT SIDE - HORIZ.
A507	166	8-10				FRONT SIDE - VERT.
A508	83	6-0	X			FRONT SIDE - VERT.
A509	192	2-0	X			DOWEL - FRONT SIDE - LAKE SIDE
A510	24	2-0				DOWEL - BOTTOM - LAKE SIDE
A511	22	6-5	X			WINGWALLS - TOP
A512	22	5-9	X			WINGWALLS - TOP
A513	40	7-2				WINGWALLS - TOP - HORIZ.
A514	88	10-2				WINGWALLS - VERT. FRONT SIDE - LAKE SIDE

NOTES: THE FIRST DIGIT OF A BAR MARK SIGNIFIES THE BAR SIZE.

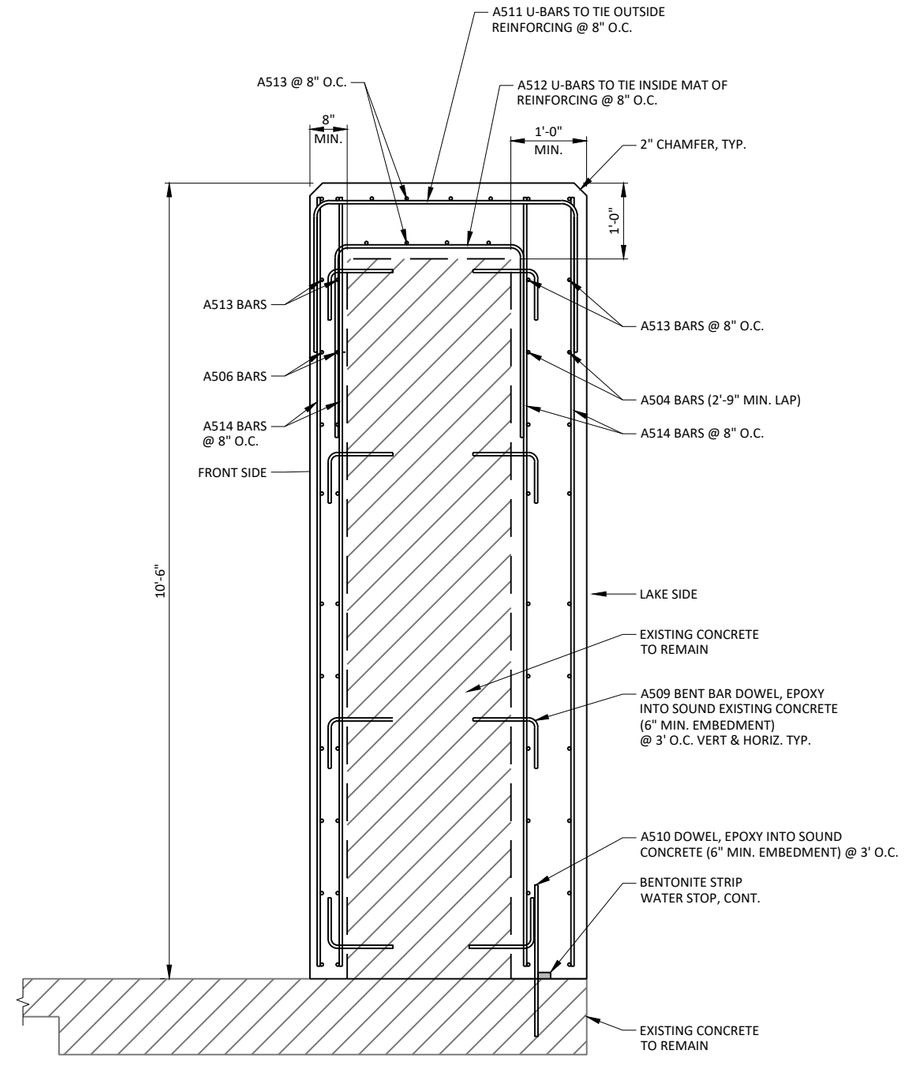
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.



SPILLWAY REPAIR CROSS SECTION

NOTES:

1. TEMPORARY COFFERDAM SHALL BE DEWATERED PRIOR TO CONCRETE REPAIRS ON SPILLWAY.
2. CLEAN CONCRETE, STONE, MASONRY, JOINTS AND CRACKS OF ALL MUD, DIRT, DEBRIS AND ALGEA. REMOVE ALL UNSOUND, DAMAGED, FOULED, POUROUS, OR OTHERWISE UNDERSIRABLE CONCRETE TO SOUND CONCRETE ON BOTH SIDE OF THE SPILLWAY AND WINGWALLS.
3. REMOVE THE TOP 12" MIN. OF CONCRETE FROM THE TOP OF SPILLWAY 1, LEAVING THE TOP PORTION OF THE WINGWALLS INTACT IF SOUND CONCRETE.
4. ALL DEBRIS FROM CLEANING/REMOVING CONCRETE SHALL BE REMOVED FROM LAKE PRIOR TO REMOVING THE COFFERDAM.
8. CONTRACTOR TO ENSURE ALL DEBRIS FROM CLEANING/ REMOVING CONCRETE ON THE DOWNSTREAM SIDE OF THE SPILLWAY BE REMOVED.
9. CONTRACTOR RESPONSIBLE FOR PROVIDING WATERTIGHT CONNECTION BETWEEN TEMPORARY COFFERDAM AND SLUICE GATE. SANDBAGGING MAY BE REQUIRED.
10. EROSION CONTROL MEASURES BY CONTRACTOR
11. THE EMBANKMENT MUST BE RESTORED TO ITS ORIGINAL CONDITION FOLLOWING CONSTRUCTION, INCLUDING THE REMOVAL OF ALL TEMPORARY PADS FOR HEAVY EQUIPMENT, REMOVAL OF ANY AND ALL TEMPORARY DEBRIS STOCKPILES, RESEEDING OF VEGETATION, ETC.



WINGWALL REPAIR CROSS SECTION

JEWELL associates engineers, inc.
Engineers - Architects - Surveyors

560 Sunrise Drive
Spring Green, WI 53588
phone: 608-588-7484

Lake Leota Dam Repairs
Evansville, Wisconsin

Date
1/16/2023

Date	Revision

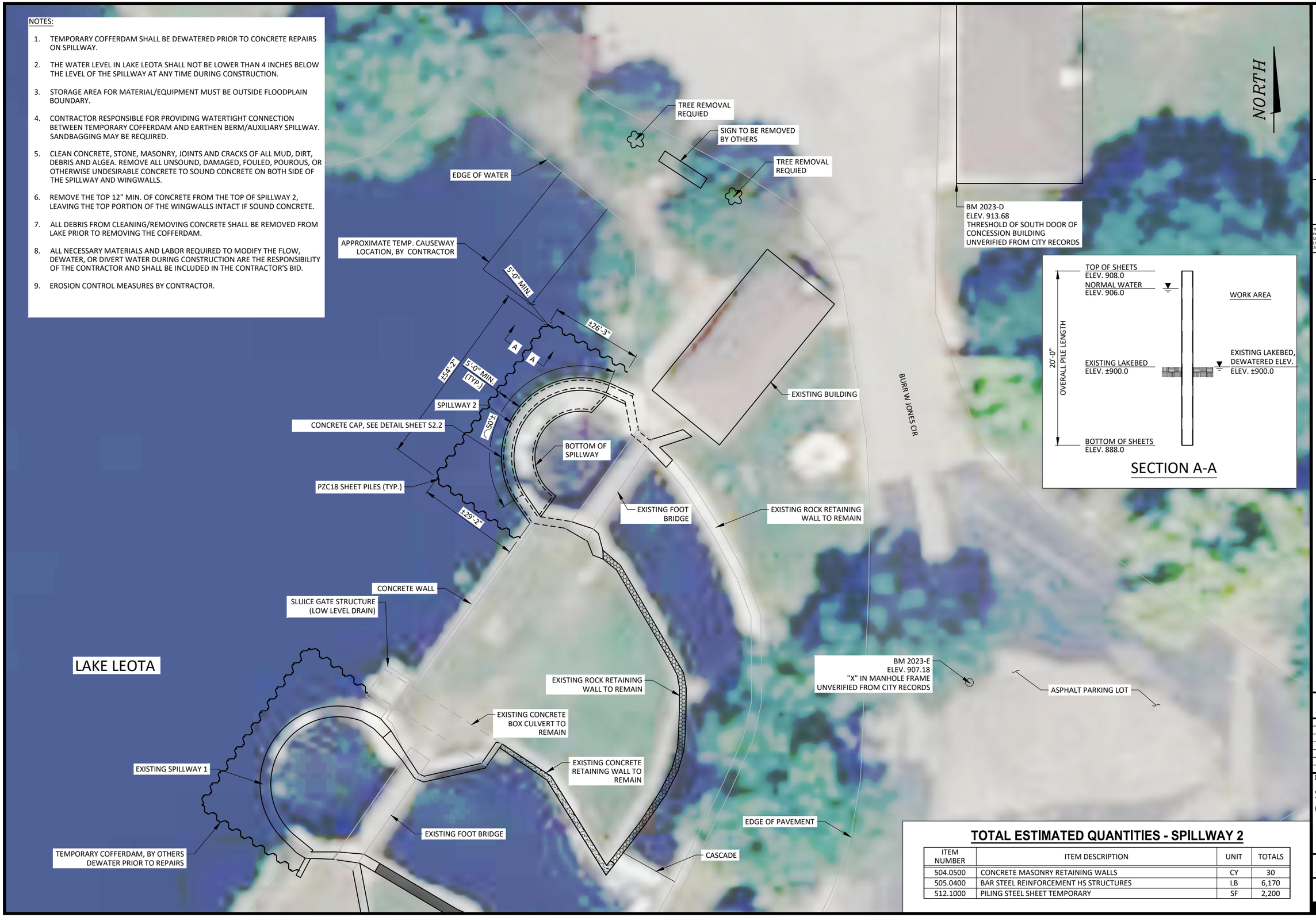
Drawing Name
SPILLWAY 1 REPAIR DETAILS

Sheet No.
S1.4

Project Number
E29120

NOTES:

1. TEMPORARY COFFERDAM SHALL BE DEWATERED PRIOR TO CONCRETE REPAIRS ON SPILLWAY.
2. THE WATER LEVEL IN LAKE LEOTA SHALL NOT BE LOWER THAN 4 INCHES BELOW THE LEVEL OF THE SPILLWAY AT ANY TIME DURING CONSTRUCTION.
3. STORAGE AREA FOR MATERIAL/EQUIPMENT MUST BE OUTSIDE FLOODPLAIN BOUNDARY.
4. CONTRACTOR RESPONSIBLE FOR PROVIDING WATERTIGHT CONNECTION BETWEEN TEMPORARY COFFERDAM AND EARTHEN BERM/AUXILIARY SPILLWAY. SANDBAGGING MAY BE REQUIRED.
5. CLEAN CONCRETE, STONE, MASONRY, JOINTS AND CRACKS OF ALL MUD, DIRT, DEBRIS AND ALGEA. REMOVE ALL UNSOUND, DAMAGED, FOULED, POUROUS, OR OTHERWISE UNDESIRABLE CONCRETE TO SOUND CONCRETE ON BOTH SIDE OF THE SPILLWAY AND WINGWALLS.
6. REMOVE THE TOP 12" MIN. OF CONCRETE FROM THE TOP OF SPILLWAY 2, LEAVING THE TOP PORTION OF THE WINGWALLS INTACT IF SOUND CONCRETE.
7. ALL DEBRIS FROM CLEANING/REMOVING CONCRETE SHALL BE REMOVED FROM LAKE PRIOR TO REMOVING THE COFFERDAM.
8. ALL NECESSARY MATERIALS AND LABOR REQUIRED TO MODIFY THE FLOW, DEWATER, OR DIVERT WATER DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
9. EROSION CONTROL MEASURES BY CONTRACTOR.



SECTION A-A

TOTAL ESTIMATED QUANTITIES - SPILLWAY 2

ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTALS
504.0500	CONCRETE MASONRY RETAINING WALLS	CY	30
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	6,170
512.1000	PILING STEEL SHEET TEMPORARY	SF	2,200

JEWELL associates engineers, inc.
Engineers - Architects - Surveyors

560 Sunrise Drive
Spring Green, WI 53588
phone: 608-588-7484

Lake Leota Dam Repairs
Evansville, Wisconsin

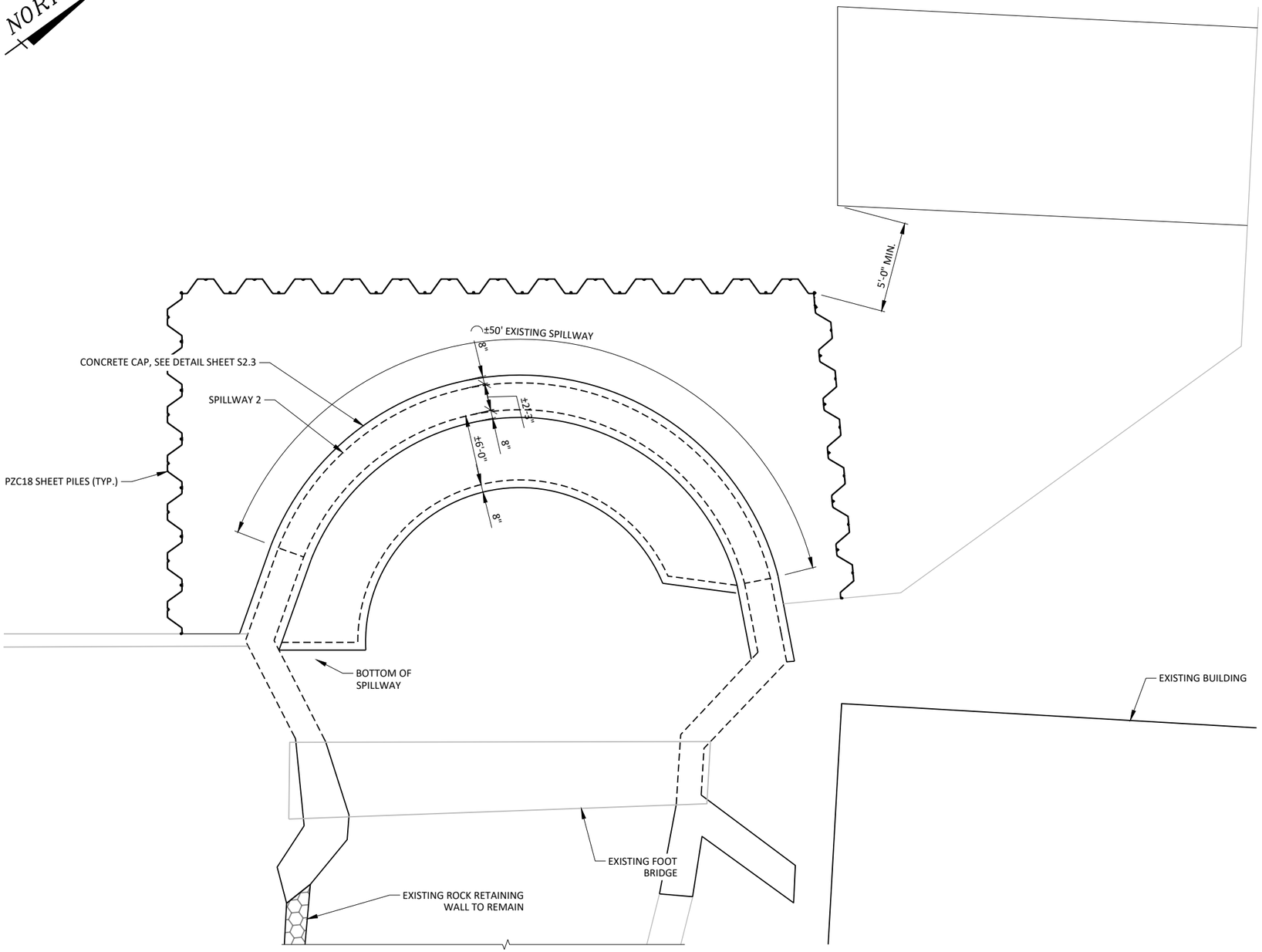
Date
1-16-23

Date	Revision

Drawing Name
SPILLWAY 2 OVERVIEW

Sheet No.
S2.0

Project Number
E29120



SPILLWAY 2 PLAN VIEW

CONSTRUCTION SEQUENCE:

1.1 TEMPORARY COFFERDAM 1 IS ALREADY INSTALLED.
1.2 PROVIDE WATERPROOF SEAL FOR TEMPORARY COFFERDAM 1.
1.3 DEWATER TEMPORARY COFFERDAM 1.
1.4 DREDGE LAKE BETWEEN TEMPORARY COFFERDAM 1 AND SPILLWAY 1.
1.5 DEWATER DOWNSTREAM SIDE OF SPILLWAY 1.
1.6 CLEAN BOTH SIDES OF EXISTING SPILLWAY 1. REMOVE ANY LOOSE DEBRIS, SOIL, SLURRY, ETC.
1.7 PREPARE EXISTING CONCRETE PER STANDARD SPECIFICATIONS.
1.8 INSTALL NEW SPILLWAY CAP PER PLANS.
1.9 ALLOW CONCRETE CAP ADEQUATE TIME TO CURE PER STANDARD SPECIFICATIONS AND REMOVE FORMS.
1.10 REWATER TEMPORARY COFFERDAM 1.
1.11 REMOVE TEMPORARY COFFERDAM 1 (BY OTHERS).

2.1. INSTALL TEMPORARY COFFERDAM 2 AT THE NORTH SPILLWAY (SPILLWAY 2)
2.2 DEWATER TEMPORARY COFFERDAM 2.
2.3 DREDGE LAKE BETWEEN TEMPORARY COFFERDAM 2 AND SPILLWAY 2.
2.4 DEWATER DOWNSTREAM SIDE OF SPILLWAY 2.
2.5 CLEAN BOTH SIDES OF EXISTING SPILLWAY 2. REMOVE ANY LOOSE DEBRIS, SOIL, SLURRY, ETC.
2.6 PREPARE EXISTING CONCRETE PER STANDARD SPECIFICATIONS.
2.7 INSTALL NEW SPILLWAY CAP PER PLANS.
2.8 ALLOW CONCRETE CAP ADEQUATE TIME TO CURE PER STANDARD SPECIFICATIONS AND REMOVE FORMS.
2.9 REWATER TEMPORARY COFFERDAM 2.
2.10 REMOVE TEMPORARY COFFERDAM 2.

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Date
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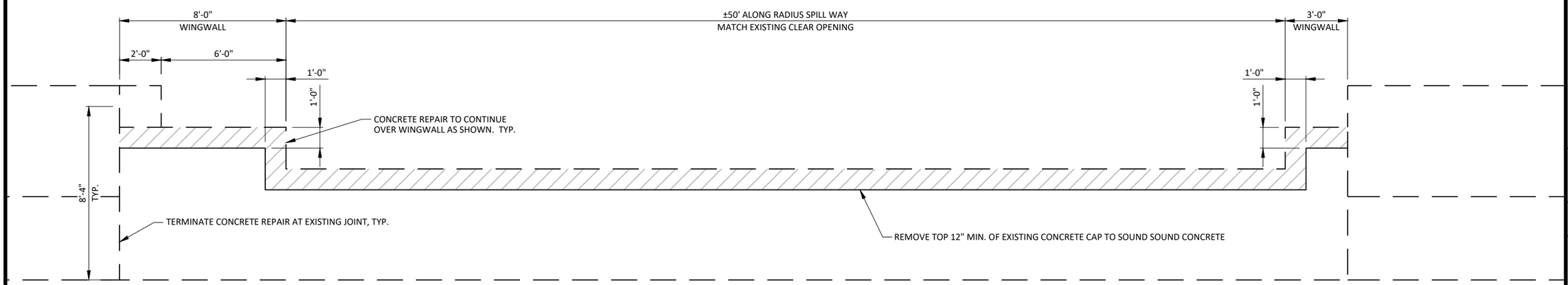
Date	Revision

Drawing Name
SPILLWAY 2 PLAN VIEW

Sheet No.
S2.1

Project Number
E29120



SPILLWAY 2 ELEVATION

SPILLWAY 2 ELEVATION PHOTOS

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Evansville, Wisconsin

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Drawing Name
SPILLWAY 2 ELEVATION VIEW

Sheet No.
S2.2

Project Number
E29120

BILL OF BARS
TWO ABUTMENTS SHOWN — 6,170 LB (UNCOATED)

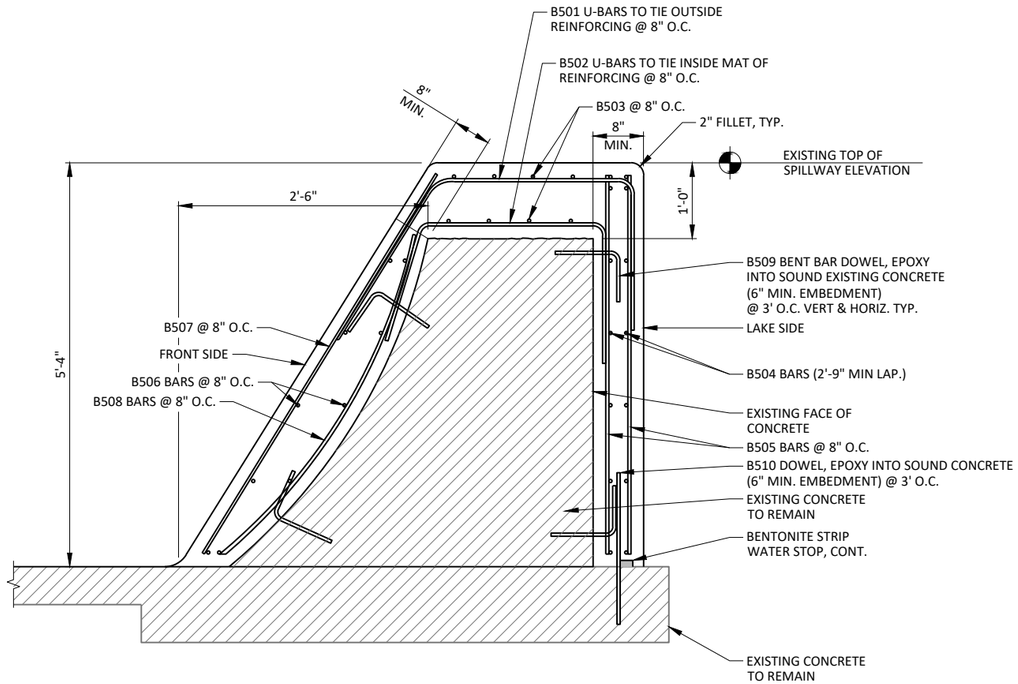
BAR MARK	NO. REQ'D.	LENGTH	BENT	COAT	BAR SERIES	LOCATION
B501	75	6-11	X			SPILLWAY - TOP.
B502	75	5-10	X			SPILLWAY - TOP
B503	16	32-0	X			SPILLWAY - TOP. - HORIZ.
B504	20	38-10	X			LAKE SIDE - HORIZ.
B505	150	5-0				LAKE SIDE - VERT.
B506	20	33-10	X			FRONT SIDE - HORIZ.
B507	75	6-0				FRONT SIDE - VERT.
B508	75	5-0	X			FRONT SIDE - VERT.
B509	100	2-0	X			DOWEL - FRONT SIDE - LAKE SIDE
B510	100	2-0				DOWEL - BOTTOM - LAKE SIDE
B511	22	7-0	X			WINGWALLS - TOP
B512	22	6-6	X			WINGWALLS - TOP
B513	16	7-8				WINGWALLS - TOP - HORIZ.
B514	44	7-0				WINGWALLS - VERT. LAKE SIDE
B515	22	7-4				WINGWALLS - VERT. FRONT SIDE
B516	22	5-5				WINGWALLS - VERT. FRONT SIDE

NOTES: THE FIRST DIGIT OF A BAR MARK SIGNIFIES THE BAR SIZE.

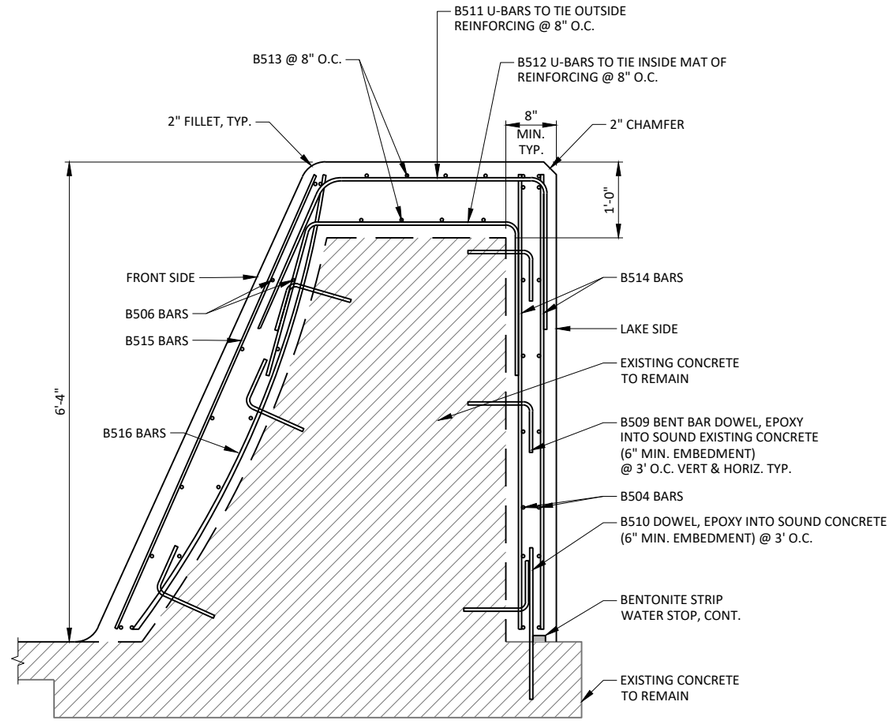
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

NOTES:

1. TEMPORARY COFFERDAM SHALL BE DEWATERED PRIOR TO CONCRETE REPAIRS ON SPILLWAY.
2. THE WATER LEVEL IN LAKE LEOTA SHALL NOT BE LOWER THAN 4 INCHES BELOW THE LEVEL OF THE SPILLWAY AT ANY TIME DURING CONSTRUCTION.
3. STORAGE AREA FOR MATERIAL/EQUIPMENT MUST BE OUTSIDE FLOODPLAIN BOUNDARY.
4. CONTRACTOR RESPONSIBLE FOR PROVIDING WATERTIGHT CONNECTION BETWEEN TEMPORARY COFFERDAM AND EARTHEN BERM/AUXILIARY SPILLWAY. SANDBAGGING MAY BE REQUIRED.
5. CLEAN CONCRETE, STONE, MASONRY, JOINTS AND CRACKS OF ALL MUD, DIRT, DEBRIS AND ALGEA. REMOVE ALL UNSOUND, DAMAGED, FOULED, POUROUS, OR OTHERWISE UNDESIRABLE CONCRETE TO SOUND CONCRETE ON BOTH SIDE OF THE SPILLWAY AND WINGWALLS.
6. REMOVE THE TOP 12" MIN. OF CONCRETE FROM THE TOP OF SPILLWAY 2, AND WINGWALLS.
7. ALL DEBRIS FROM CLEANING/REMOVING CONCRETE SHALL BE REMOVED FROM LAKE PRIOR TO REMOVING THE COFFERDAM.
8. CONTRACTOR TO ENSURE ALL DEBRIS FROM CLEANING/ REMOVING CONCRETE ON THE DOWNSTREAM SIDE OF THE SPILLWAY BE REMOVED.
9. ALL NECESSARY MATERIALS AND LABOR REQUIRED TO MODIFY THE FLOW, DEWATER, OR DIVERT WATER DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
10. EROSION CONTROL MEASURES BY CONTRACTOR.
11. THE EMBANKMENT MUST BE RESTORED TO ITS ORIGINAL CONDITION FOLLOWING CONSTRUCTION, INCLUDING THE REMOVAL OF ALL TEMPORARY PADS FOR HEAVY EQUIPMENT, REMOVAL OF ANY AND ALL TEMPORARY DEBRIS STOCKPILES, RESEEDING OF VEGETATION, ETC.
12.



SPILLWAY REPAIR CROSS SECTION



WINGWALL REPAIR CROSS SECTION

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Evansville, Wisconsin

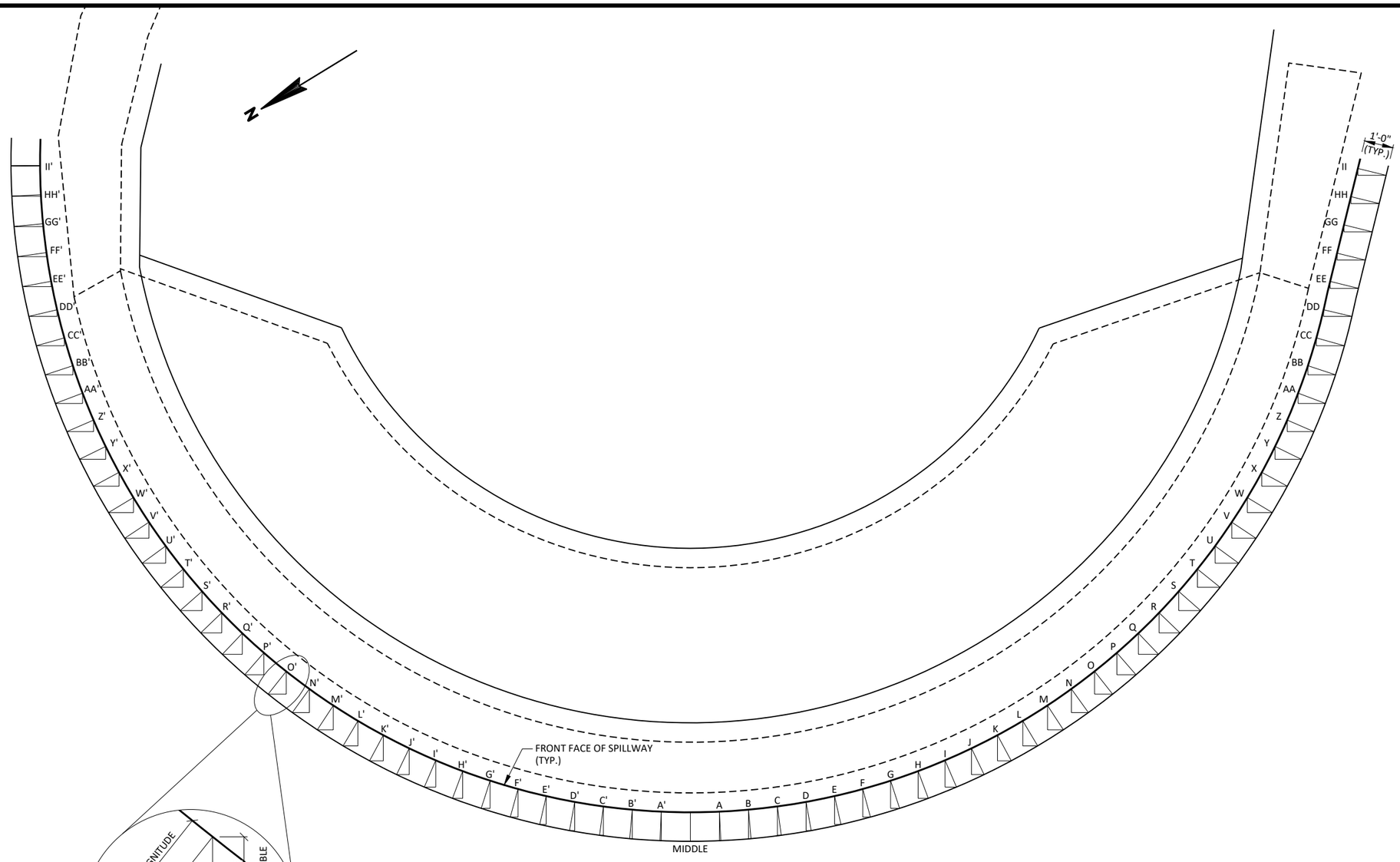
Date: 1-16-23

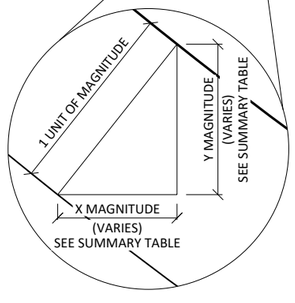
Date	Revision

Drawing Name: **SPILLWAY 2 REPAIR DETAILS**

Sheet No.: **S2.3**

Project Number: E29120





RESULTANT DETAIL

SPILLWAY 1

Node	Y Magnitude	X Magnitude
Middle	1.0000	0.0000
A	0.9990	0.0447
A'	0.9990	0.0447
B	0.9960	0.0893
B'	0.9960	0.0893
C	0.9910	0.1337
C'	0.9910	0.1337
D	0.9840	0.1779
D'	0.9840	0.1779
E	0.9751	0.2217
E'	0.9751	0.2217
F	0.9642	0.2651
F'	0.9642	0.2651
G	0.9514	0.3079
G'	0.9514	0.3079
H	0.9367	0.3501
H'	0.9367	0.3501
I	0.9201	0.3916
I'	0.9201	0.3916
J	0.9017	0.4324
J'	0.9017	0.4324
K	0.8815	0.4723
K'	0.8815	0.4723
L	0.8595	0.5112
L'	0.8595	0.5112
M	0.8358	0.5491
M'	0.8358	0.5491
N	0.8104	0.5859
N'	0.8104	0.5859
O	0.7834	0.6215
O'	0.7834	0.6215
P	0.7548	0.6559
P'	0.7548	0.6559
Q	0.7247	0.6890
Q'	0.7247	0.6890
R	0.6932	0.7207
R'	0.6932	0.7207
S	0.6603	0.7510
S'	0.6603	0.7510
T	0.6261	0.7798
T'	0.6261	0.7798
U	0.5906	0.8070
U'	0.5906	0.8070
V	0.5539	0.8326
V'	0.5539	0.8326
W	0.5162	0.8565
W'	0.5162	0.8565
X	0.4774	0.8787
X'	0.4774	0.8787
Y	0.4376	0.8992
Y'	0.4376	0.8992
Z	0.3970	0.9178
Z'	0.3970	0.9178
AA	0.3556	0.9346
AA'	0.3556	0.9346
BB	0.3134	0.9496
BB'	0.3134	0.9496
CC	0.2707	0.9627
CC'	0.2707	0.9627
DD	0.2274	0.9738
DD'	0.2274	0.9738
EE	0.2382	0.9712
EE'	0.1836	0.9830
FF	0.2382	0.9712
FF'	0.1395	0.9902
GG	0.2382	0.9712
GG'	0.0951	0.9955
HH	0.2382	0.9712
HH'	0.0505	0.9987
II	0.2382	0.9712
II'	0.0058	1.0000
SUM	45.4429	45.3500

SUMMARY TABLE

SPILLWAY 1 RESULTANT FORCES

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Lake Leota Dam Repairs
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Date
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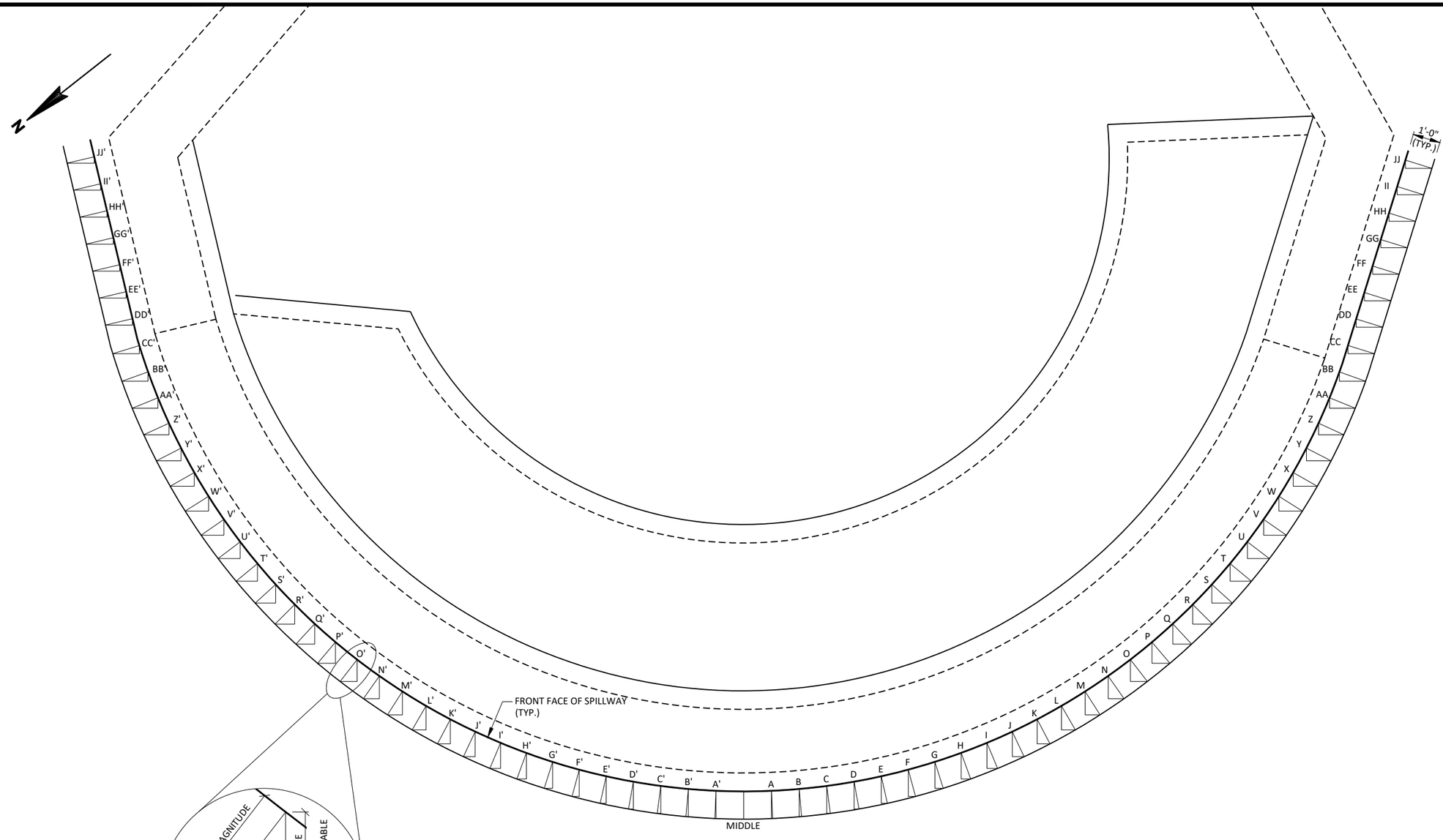
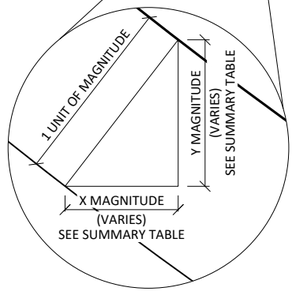
Date	Revision

Drawing Name
SPILLWAY 1 FORCE RESULTANT

Sheet No.
S1

Project Number
E29120





RESULTANT DETAIL

SPILLWAY 2		
Node	Y Magnitude	X Magnitude
Middle	1.0000	0.0000
A	0.9990	0.0438
A'	0.9990	0.0438
B	0.9962	0.0876
B'	0.9962	0.0876
C	0.9914	0.1311
C'	0.9914	0.1311
D	0.9847	0.1745
D'	0.9847	0.1745
E	0.9761	0.2175
E'	0.9761	0.2175
F	0.9656	0.2600
F'	0.9656	0.2600
G	0.9533	0.3021
G'	0.9533	0.3021
H	0.9391	0.3436
H'	0.9391	0.3436
I	0.9232	0.3844
I'	0.9232	0.3844
J	0.9054	0.4245
J'	0.9054	0.4245
K	0.8860	0.4638
K'	0.8860	0.4638
L	0.8648	0.5022
L'	0.8648	0.5022
M	0.8419	0.5396
M'	0.8419	0.5396
N	0.8175	0.5760
N'	0.8175	0.5760
O	0.7915	0.6112
O'	0.7915	0.6112
P	0.7639	0.6453
P'	0.7639	0.6453
Q	0.7349	0.6782
Q'	0.7349	0.6782
R	0.7045	0.7097
R'	0.7045	0.7097
S	0.6727	0.7399
S'	0.6727	0.7399
T	0.6396	0.7687
T'	0.6396	0.7687
U	0.6053	0.7960
U'	0.6053	0.7960
V	0.5698	0.8218
V'	0.5698	0.8218
W	0.5333	0.8459
W'	0.5333	0.8459
X	0.4957	0.8685
X'	0.4957	0.8685
Y	0.4571	0.8894
Y'	0.4571	0.8894
Z	0.4177	0.9086
Z'	0.4177	0.9086
AA	0.3775	0.9260
AA'	0.3775	0.9260
BB	0.3366	0.9417
BB'	0.3366	0.9417
CC	0.2959	0.9552
CC'	0.2950	0.9555
DD	0.2959	0.9552
DD'	0.2299	0.9732
EE	0.2959	0.9552
EE'	0.2299	0.9732
FF	0.2959	0.9552
FF'	0.2299	0.9732
GG	0.2959	0.9552
GG'	0.2299	0.9732
HH	0.2959	0.9552
HH'	0.2299	0.9732
II	0.2959	0.9552
II'	0.2299	0.9732
JJ	0.2959	0.9552
JJ'	0.2299	0.9732
SUM	47.5601	46.6127

SUMMARY TABLE

SPILLWAY 2 RESULTANT FORCES

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Date
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Drawing Name
SPILLWAY 2 FORCE RESULTANT

Sheet No.
S2

Project Number
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