



Ann Arbor Parks Advisory
Commission Presentation

Barton Dam Right Embankment Remediation



Agenda

1. Barton Dam Overview
2. Need for Project
3. Project Summary
4. Impacts on Park
5. Project Schedule
6. Questions



Overview

Barton Dam



Overview

Barton Dam



Overview

Barton Dam



Overview

Barton Dam



Overview

Barton Dam

Need for Project

- Remediate uncontrolled seepage and loss of earth materials from Barton Dam.
- Required by the Federal Energy Regulatory Commission (FERC) for dam safety.





- Embankment: Earth structure that retains water

Right Embankment



- Embankment: Earth structure that retains water

- Spillway: Concrete structure that passes the river flow

Right Embankment

Spillway

Bird Hills
Nature Area

Barton
Nature Area



- Embankment: Earth structure that retains water

- Spillway: Concrete structure that passes the river flow

- Powerhouse: Houses turbine equipment

Right Embankment

Spillway

Powerhouse

Bird Hills
Nature Area

Barton
Nature Area



- Embankment: Earth structure that retains water

- Spillway: Concrete structure that passes the river flow

- Powerhouse: Houses turbine equipment

Right Embankment

Spillway

Powerhouse

Left Embankment

Bird Hills
Nature Area

Barton
Nature Area

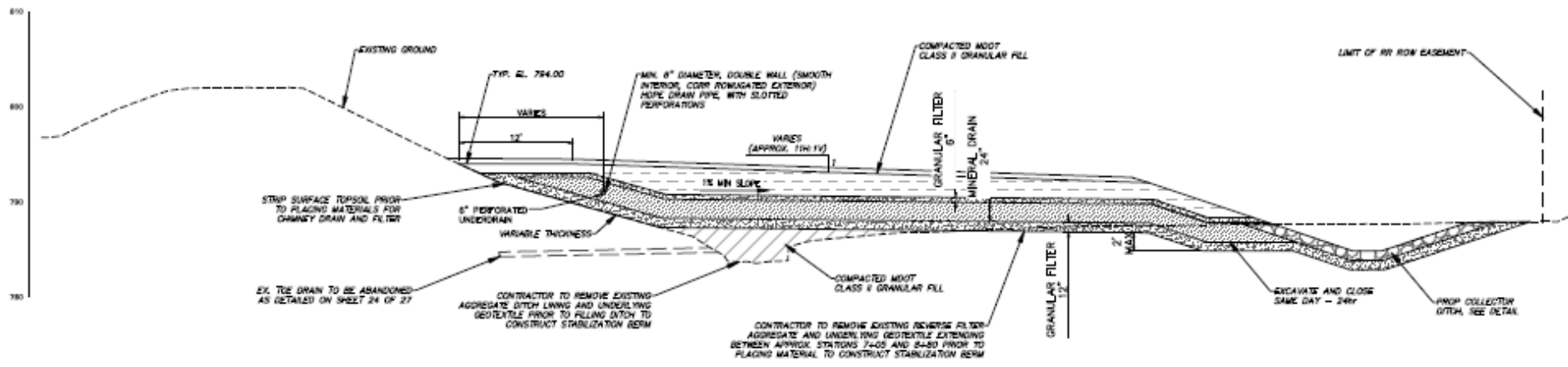




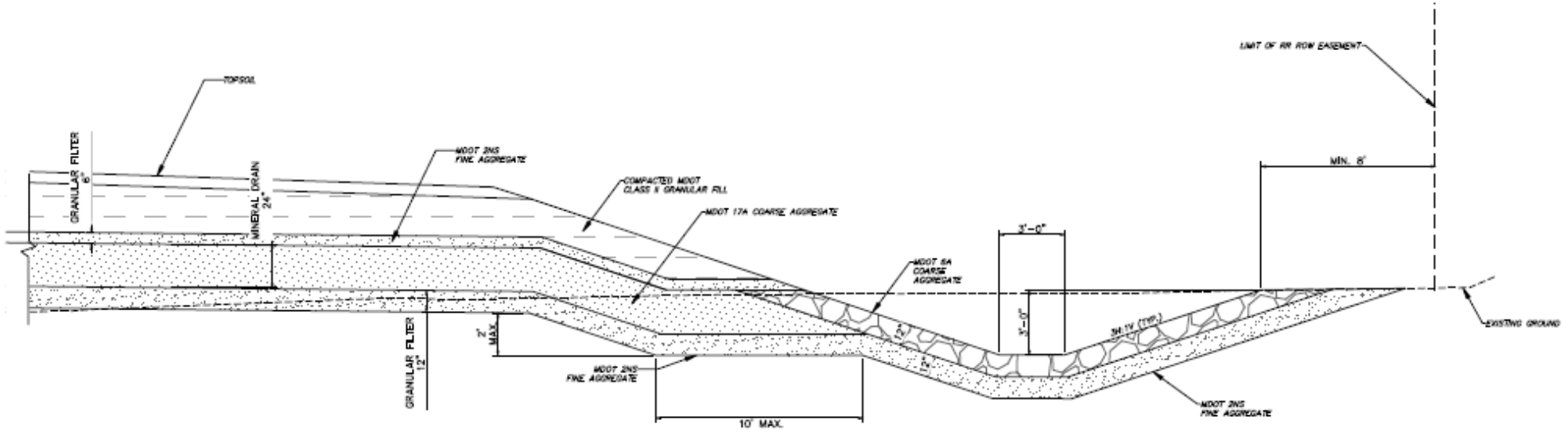
Bird Hills
Nature Area

Barton
Nature Area

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TYPICAL CROSS SECTION A
 14 OF 27



PROPOSED COLLECTOR DITCH DETAIL
 15 OF 27

NOTE
 1. THE DRAIN PIPE SHALL SHOWN SHALL BE PERFORATED AS REQUIRED IN THE PROJECT SPECIFICATIONS, EXCEPT FOR THE PORTION BETWEEN CLEARCUT NO. 7 AND THE OUTLET AND AS DETAILED ON SHEET 25.



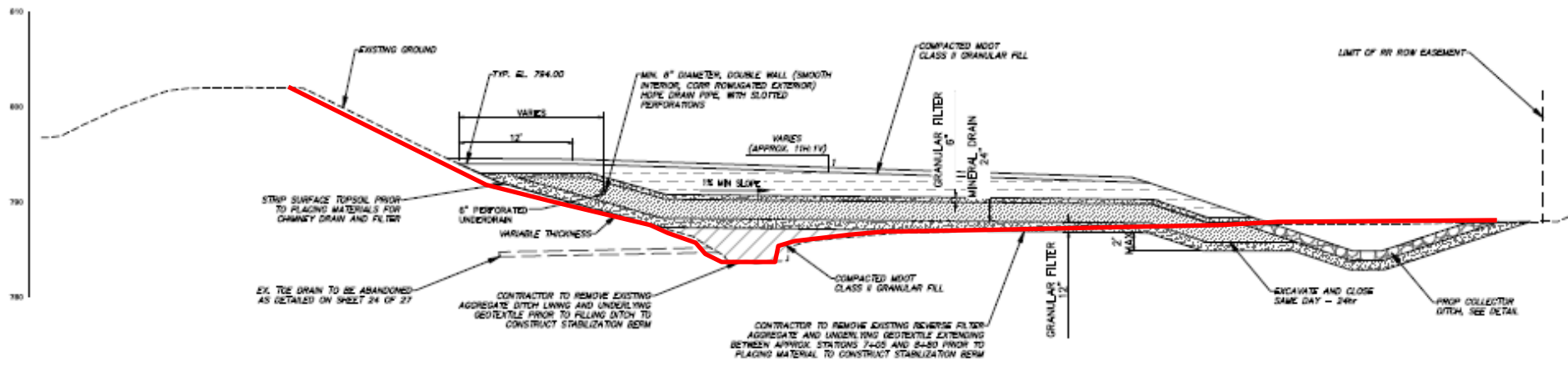
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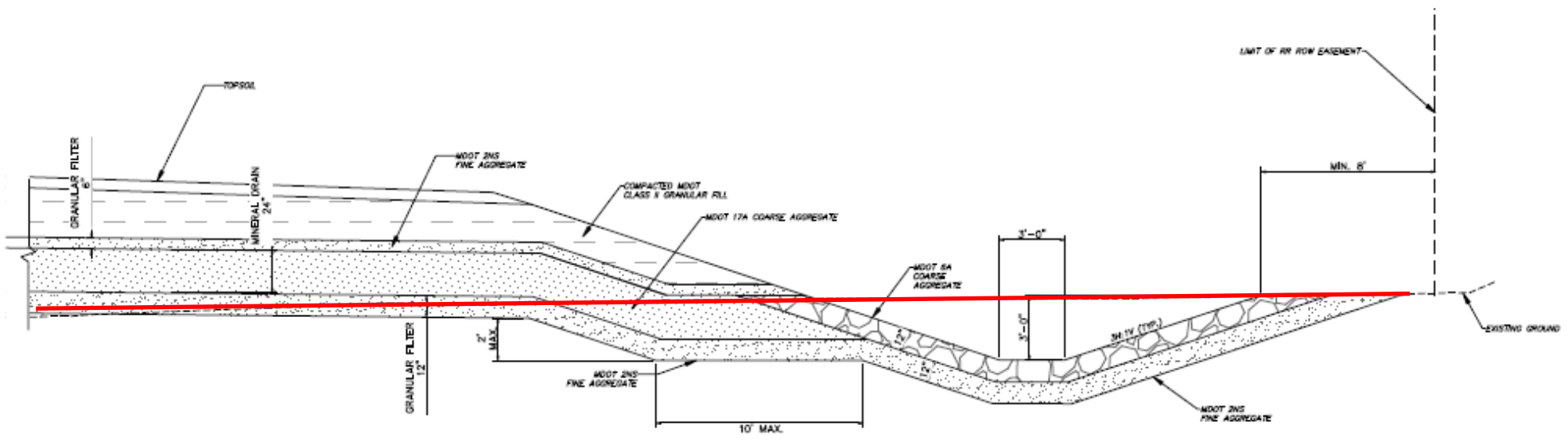


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 PROPOSED COLLECTOR DITCH DETAIL
 6% SUBMITTAL - JUNE 27, 2023

DATE: 6/27/23
 BY: [Signature]
 DRAWING NO.: 2311003200



TYPICAL CROSS SECTION A
 14 OF 27



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 15 OF 27

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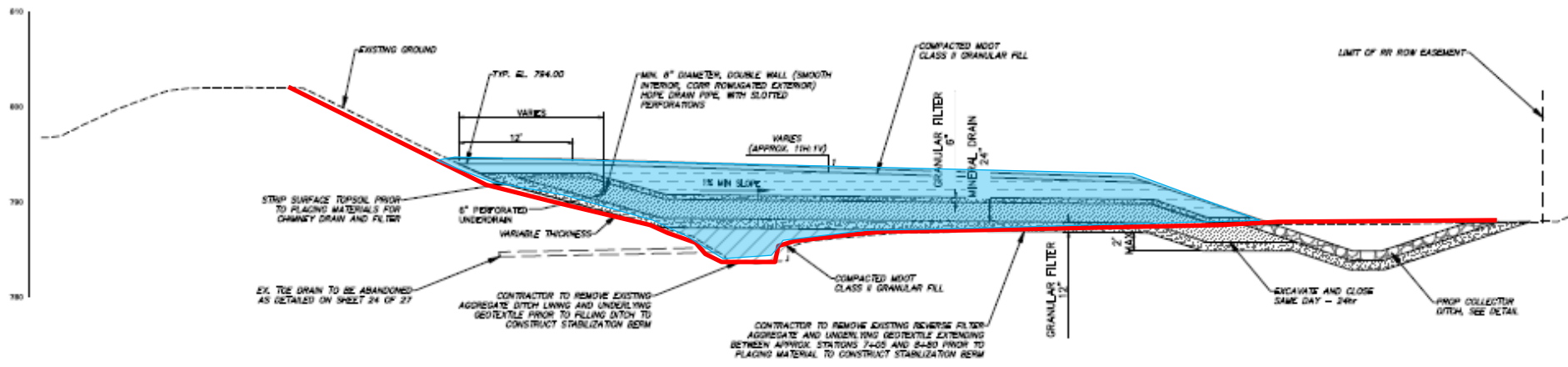
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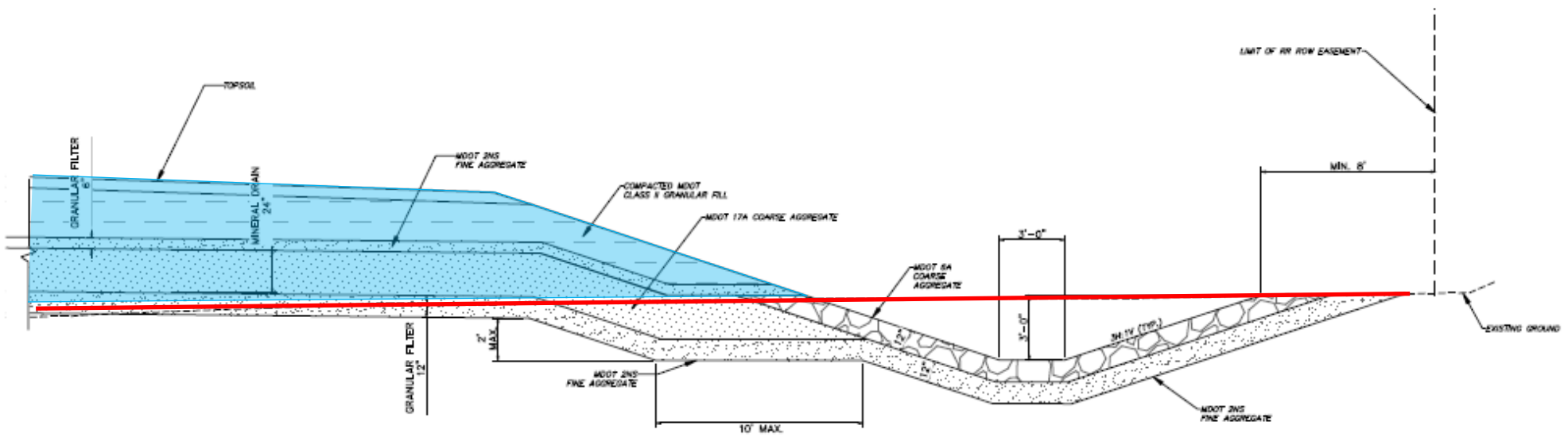


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DATE: 6/27/23
 SHEET NO.: 15 OF 27
 DRAWING NO.: 231100300



TYPICAL CROSS SECTION A
 14 OF 27



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 15 OF 27

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Temporary Construction Impacts on Park

The Right Embankment restoration project will impact community access to the park

Expected Closures

Access from Trail
to Barton Dam

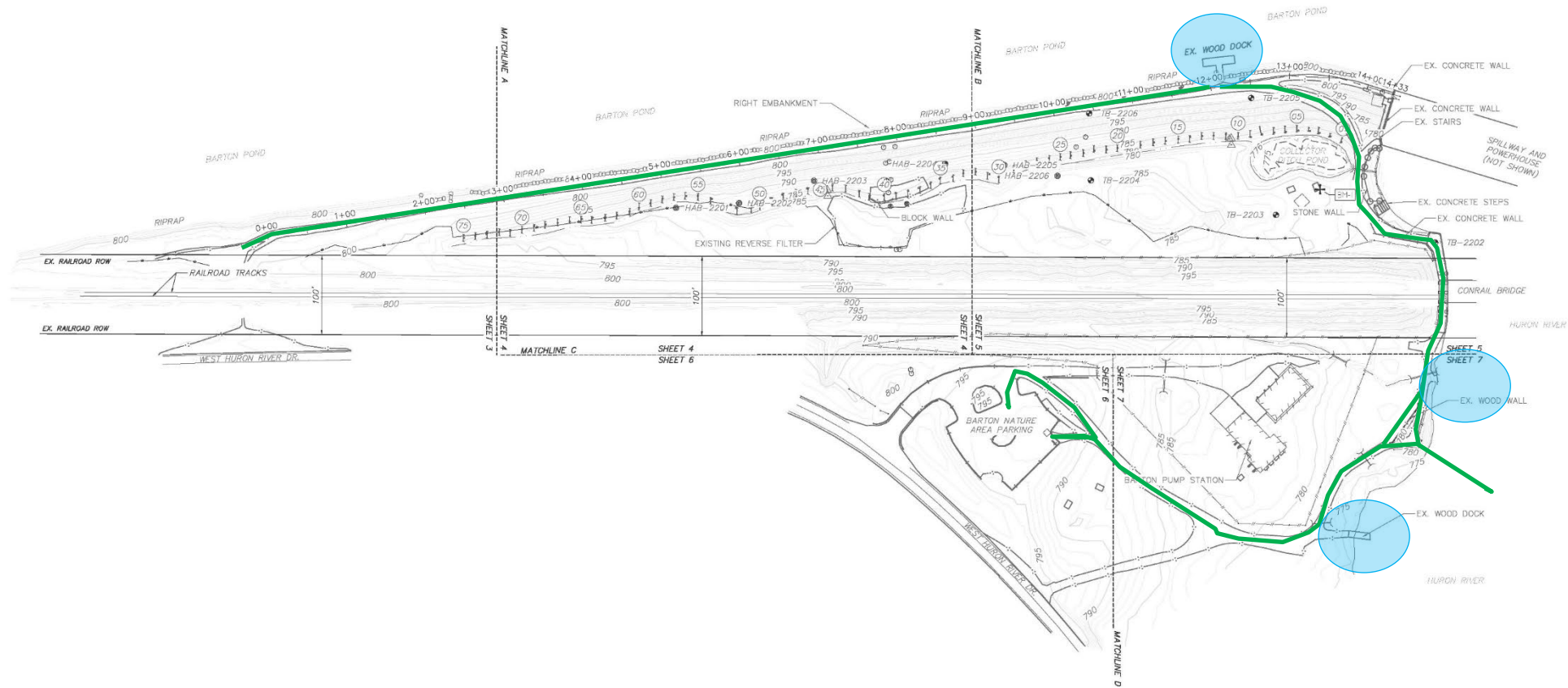


Barton Pond
Canoe Portage



Right Embankment





- NOTES**
- EXCEPT FOR UNDERPASS AT THE HURON RIVER, CROSSING THE RAILROAD TRACKS OR ENTRY INTO THE RAILROAD RIGHT-OF-WAY ANYWHERE IS PROHIBITED.
 - EXISTING PIEZOMETERS SHALL BE PROTECTED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND TO BE RAISED TO REACH FINAL GRADES.
 - THE CONTRACTOR SHALL PERFORM THE REHABILITATION FOR TD-23 AS DETAILED ON SHEET 16 PRIOR TO THE PERFORMING PLACEMENT OF FILL FOR THE PROPOSED FILTER BERM AND THE POND INFILL.

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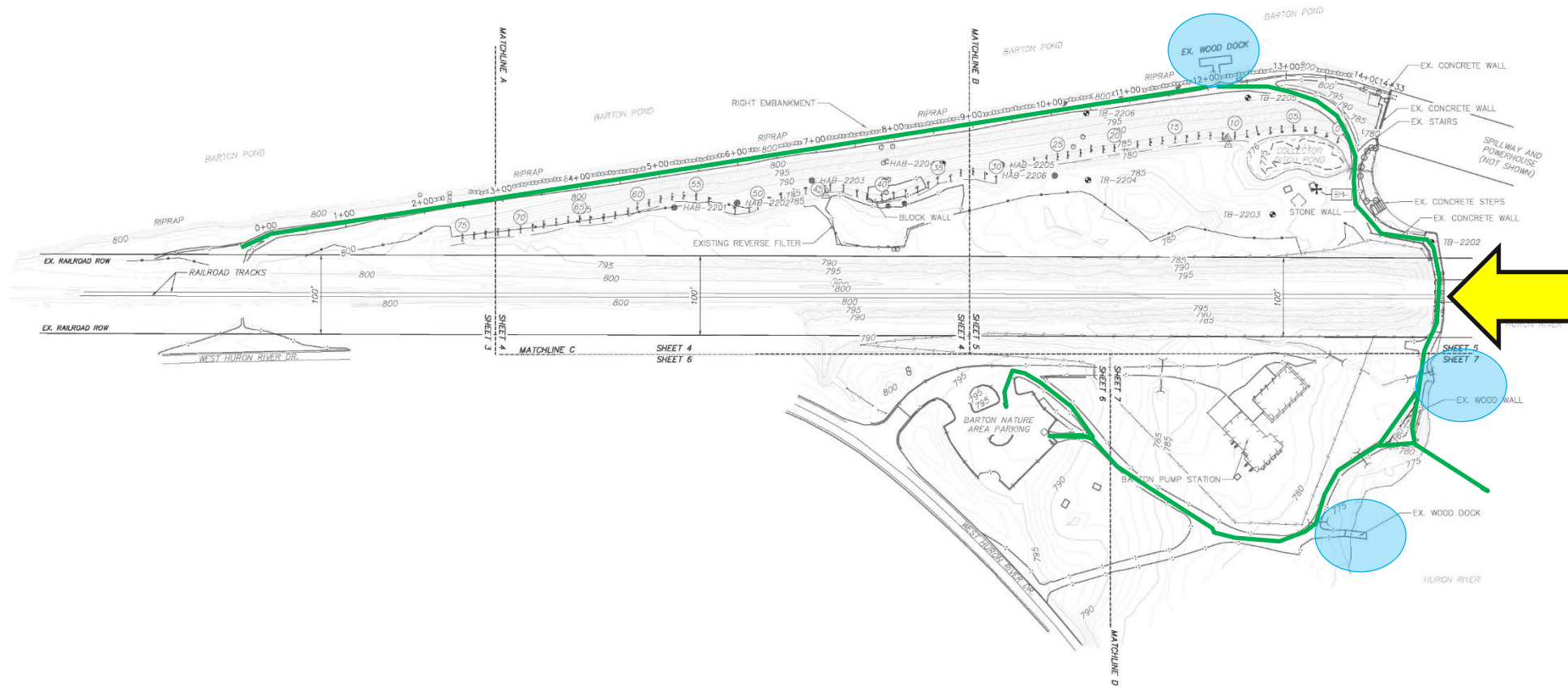
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OVERALL EXISTING SITE PLAN
80% SUBMITTAL - JUNE 27, 2023

SCALE: 1"=50'

SHEET No. 2211060900

SHEET No. 3 OF 27



- NOTES**
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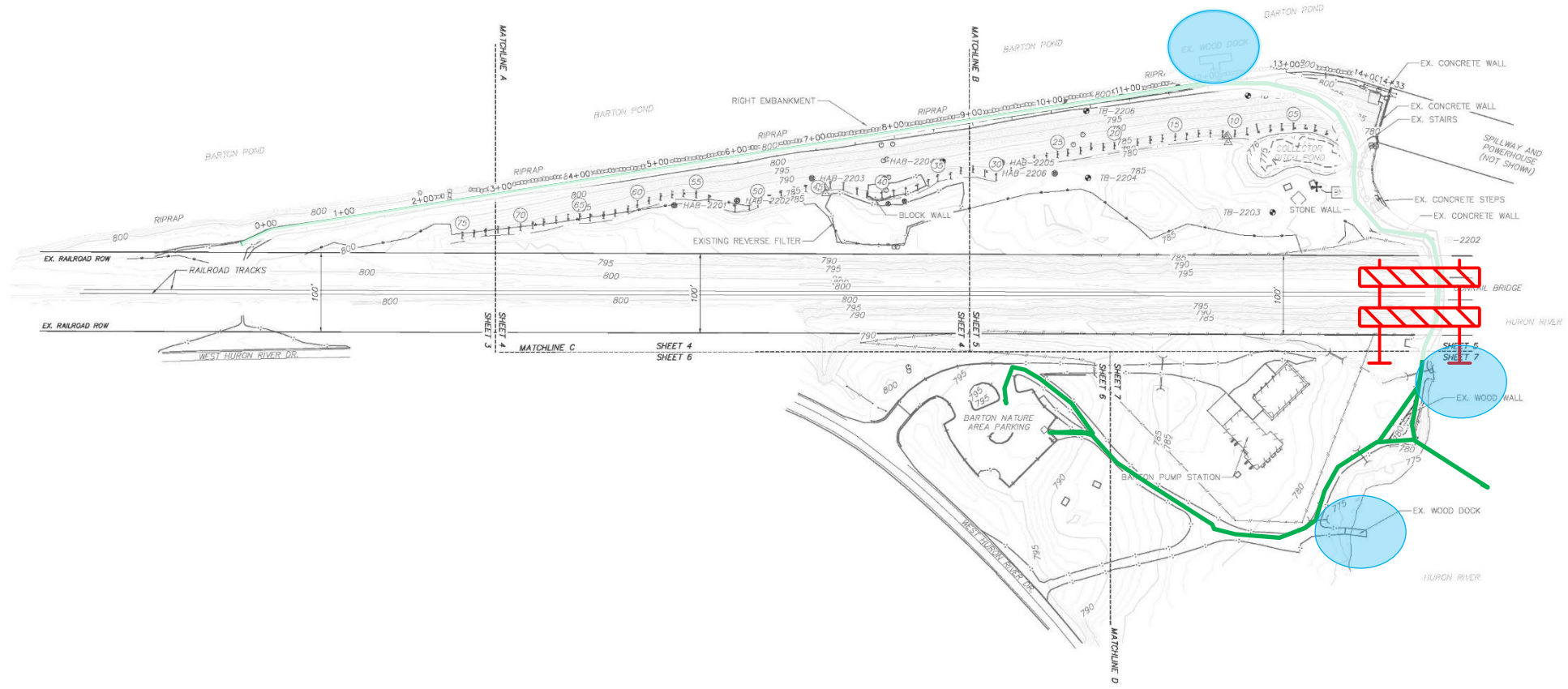
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DRWING No. 2211060000

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Know what's below.
Call before you dig.

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OVERALL EXISTING SITE PLAN

60% SUBMITTAL - JUNE 27, 2023

SCALE: 1"=75'

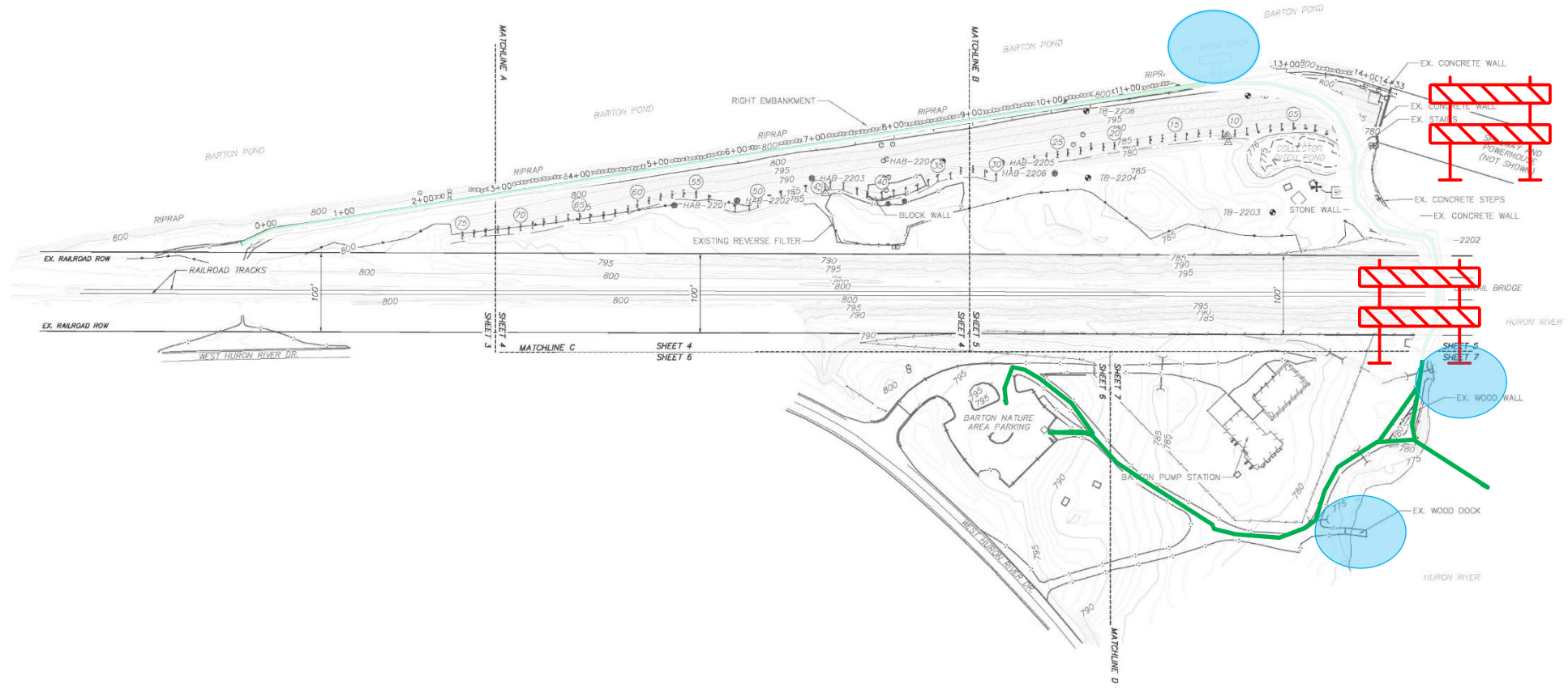
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3 OF 27



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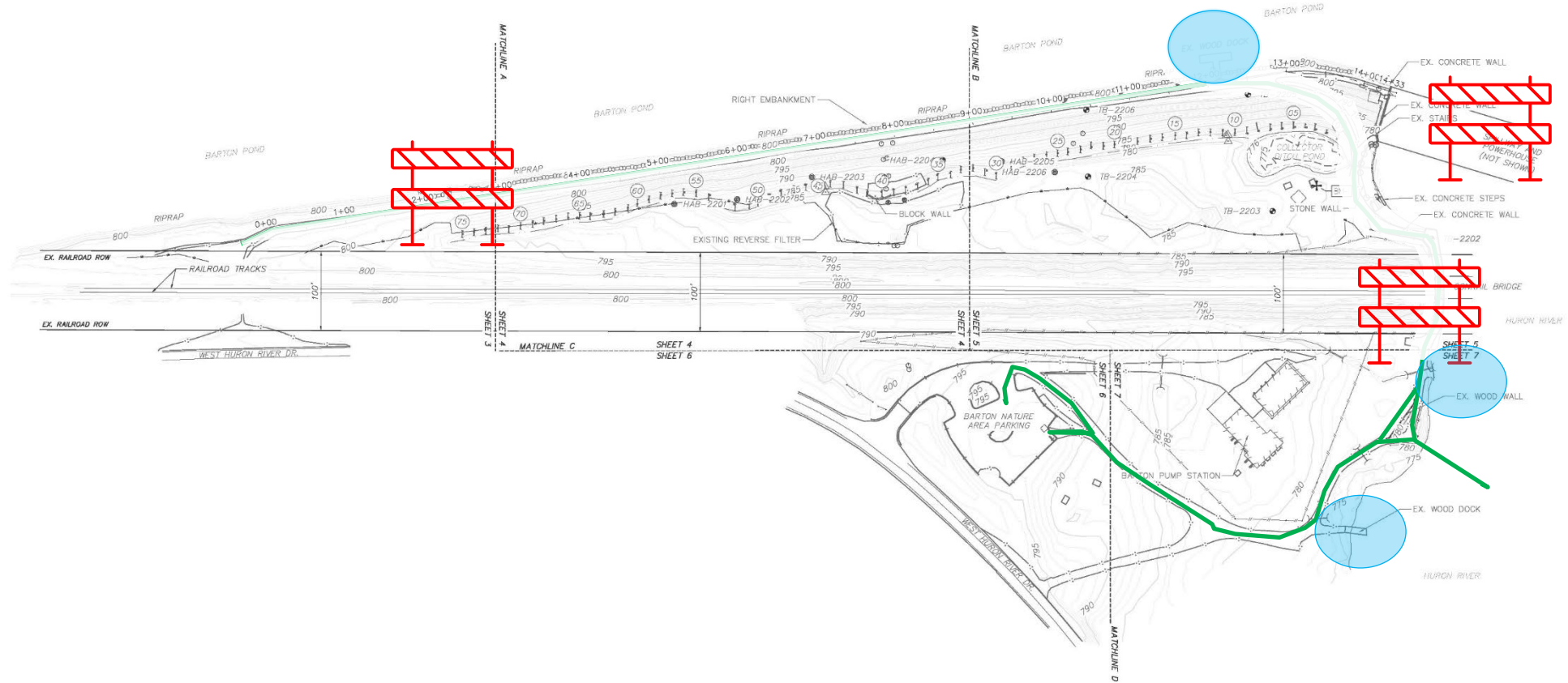
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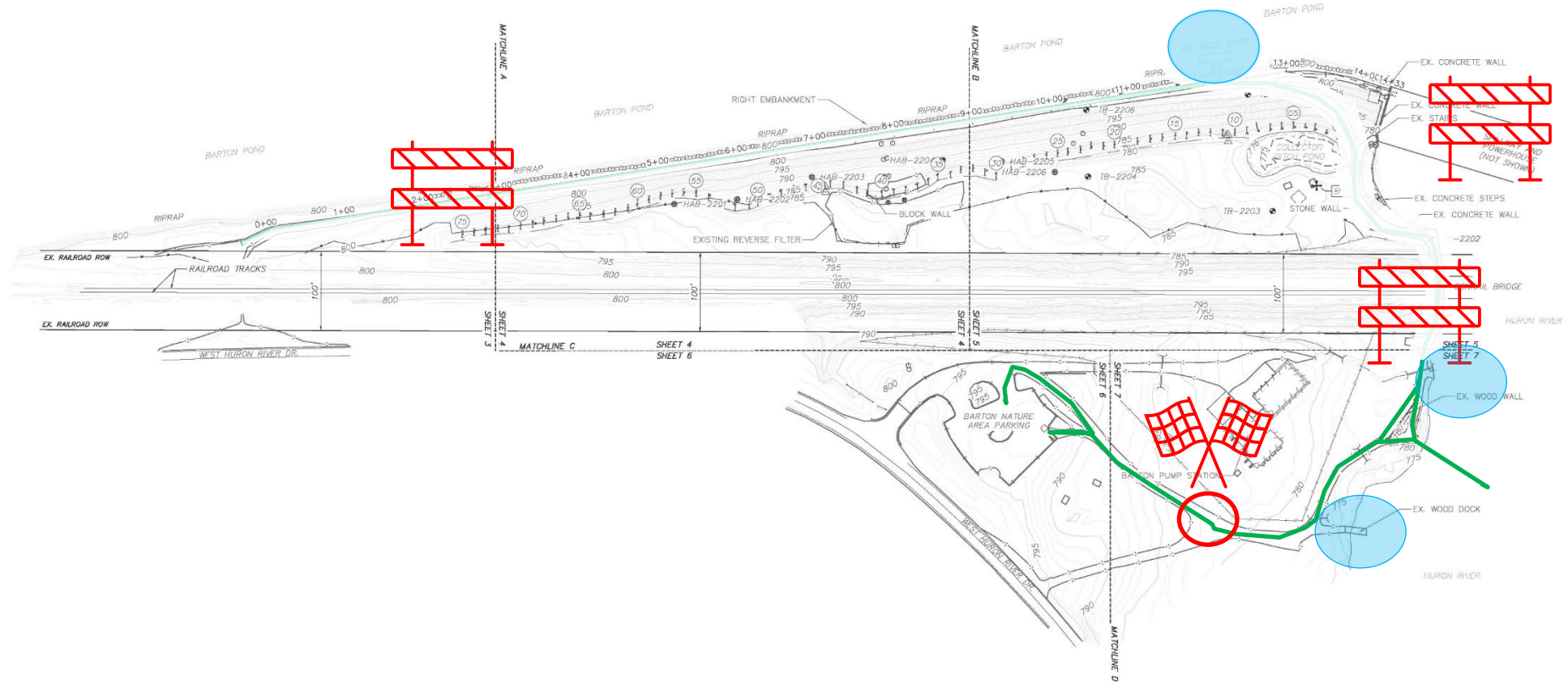
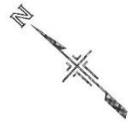
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SCALE: 1"=30'

SHEET No. 3 OF 27



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DRWING NO: 2211060900
SHEET No. 3 OF 27

Long-Term Impacts on Park



Replace Right Stair

Fill Small Pond

Long-Term Impacts on Park

Widen walkway under bridge.

New pavement.



Public Interface

Due to the fact that this is a required project, public engagement will be limited to:

- Public notifications
- Informational website
- Signage and barricades placed on the site

Project Schedule



Questions?