



000	COVER SHEET
101	TOPOGRAPHIC SURVEY
201	OVERALL SITE PLAN
202	ENLARGED DIKE PLAN 102+00 - 121+00 & 0+00-15+00
203	ENLARGED DIKE PLAN 12+00 - 45+00
204	ENLARGED DIKE PLAN 43+00 - 75+00
205	ENLARGED DIKE PLAN 70+00 - 104+00
206	ENLARGED PARKING LOT PLAN
207	ENLARGED PUMP PLAN
208	ENLARGED GRADING PLAN
209	ENLARGED GRADING PLAN
401	CONSTRUCTION DETAILS
402	CONSTRUCTION DETAILS
403	CONSTRUCTION DETAILS
404	CONSTRUCTION DETAILS

[illegible]

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Know what's **below**.  
Call before you dig.

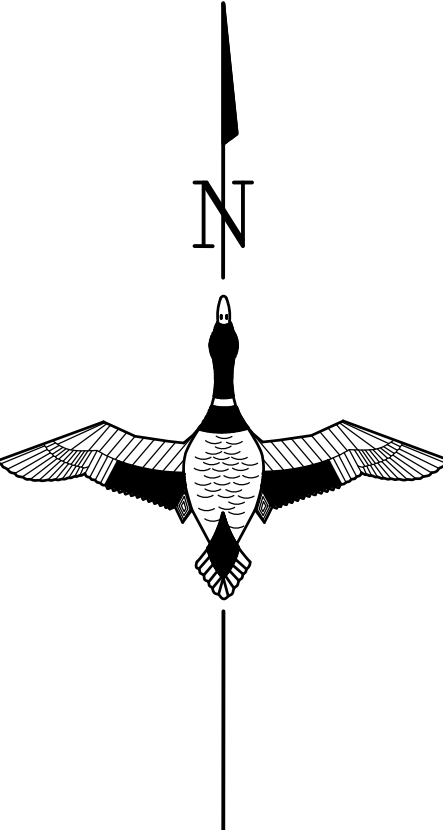
**PRELIMINARY NOT FOR CONSTRUCTION**

COVER SHEET  
HOWARD FARMS CELL 2  
WETLAND ENHANCEMENT  
TOLEDO, OHIO  
LUCAS COUNTY

[illegible]

CAD FILE: OH-38-5_CS & QTys
SIGNED BY: BN
DRAWN BY: PML
SURVEYED BY: GB
GEOLOGIST: RT
DATE: NOV. 2018
PROJECT NUMBER: US-OH-038-5
GLAR0-XX0-000-000





TOPOGRAPHIC SURVEY  
HOWARD FARMS CELL 2  
WETLAND ENHANCEMENT  
TOLEDO, OHIO  
LUCAS COUNTY

[illegible]

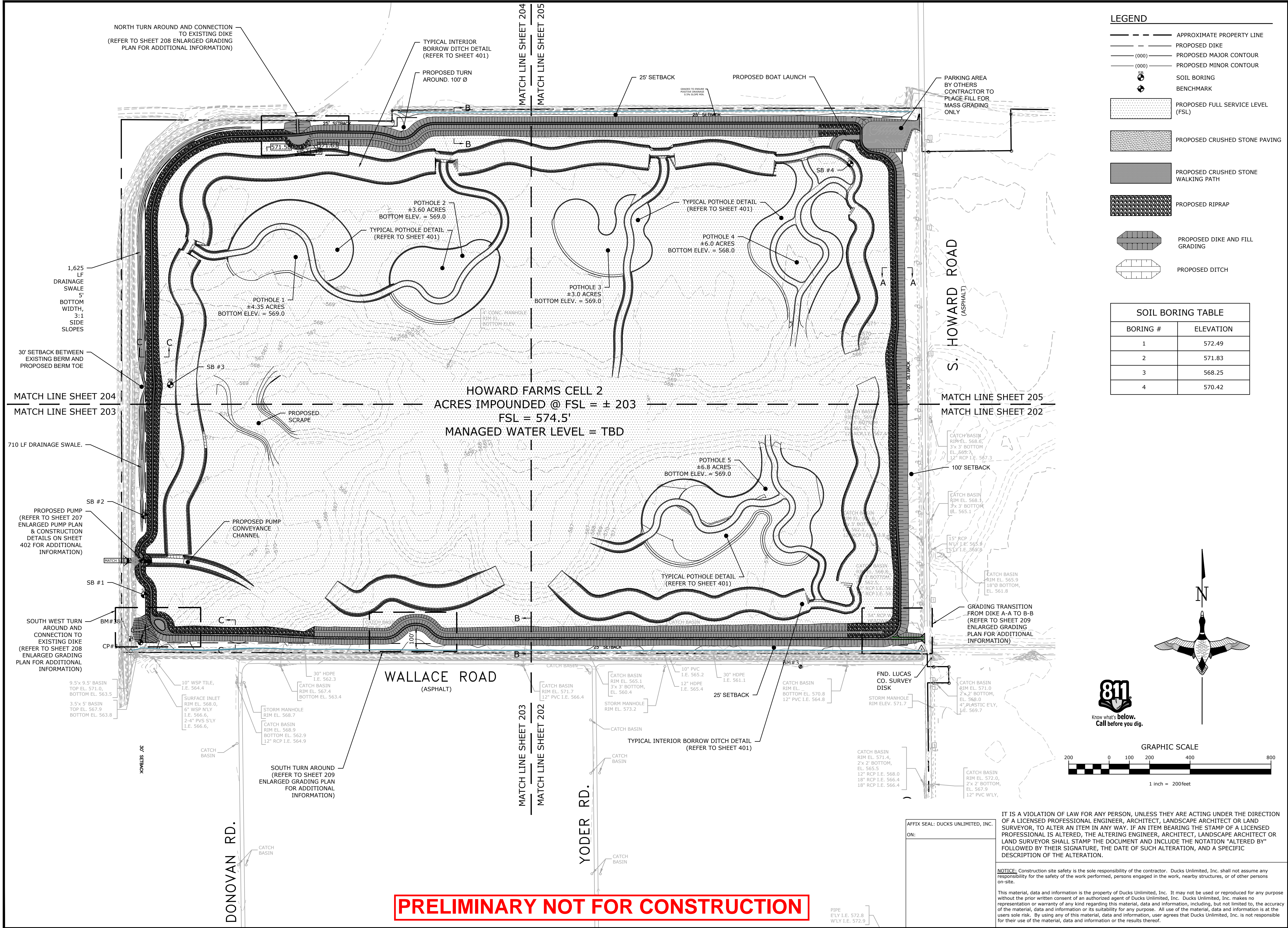
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DRAWN BY: PML
SURVEYED BY: GB
BIOLOGIST: RT
DATE: NOV. 2018
PROJECT NUMBER: US-OH-038-5
GLARO-XX0-000-101

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- LEGEND**
- APPROXIMATE PROPERTY LINE
  - PROPOSED DIKE
  - (000) PROPOSED MAJOR CONTOUR
  - (000) PROPOSED MINOR CONTOUR
  - SB SOIL BORING
  - BM BENCHMARK
  - PROPOSED FULL SERVICE LEVEL (FSL)
  - PROPOSED CRUSHED STONE PAVING
  - PROPOSED CRUSHED STONE WALKING PATH
  - PROPOSED RIPRAP
  - PROPOSED DIKE AND FILL GRADING
  - PROPOSED DITCH

SOIL BORING TABLE	
BORING #	ELEVATION
1	572.49
2	571.83
3	568.25
4	570.42

**GREAT LAKES/ATLANTIC REGIONAL OFFICE**  
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**OVERALL SITE PLAN**  
**HOWARD FARMS CELL 2**  
**WETLAND ENHANCEMENT**  
**TOLEDO, OHIO**  
**LUCAS COUNTY**

By	
Date	
Revisions	
Sheet	
Revision	

CAD FILE:  
OH-38-5\_200 Site Plan

DESIGNED BY: BN

DRAWN BY: PML

SURVEYED BY: GB

BIOLOGIST: RT

DATE:  
NOV. 2018

PROJECT NUMBER:  
US-OH-038-5

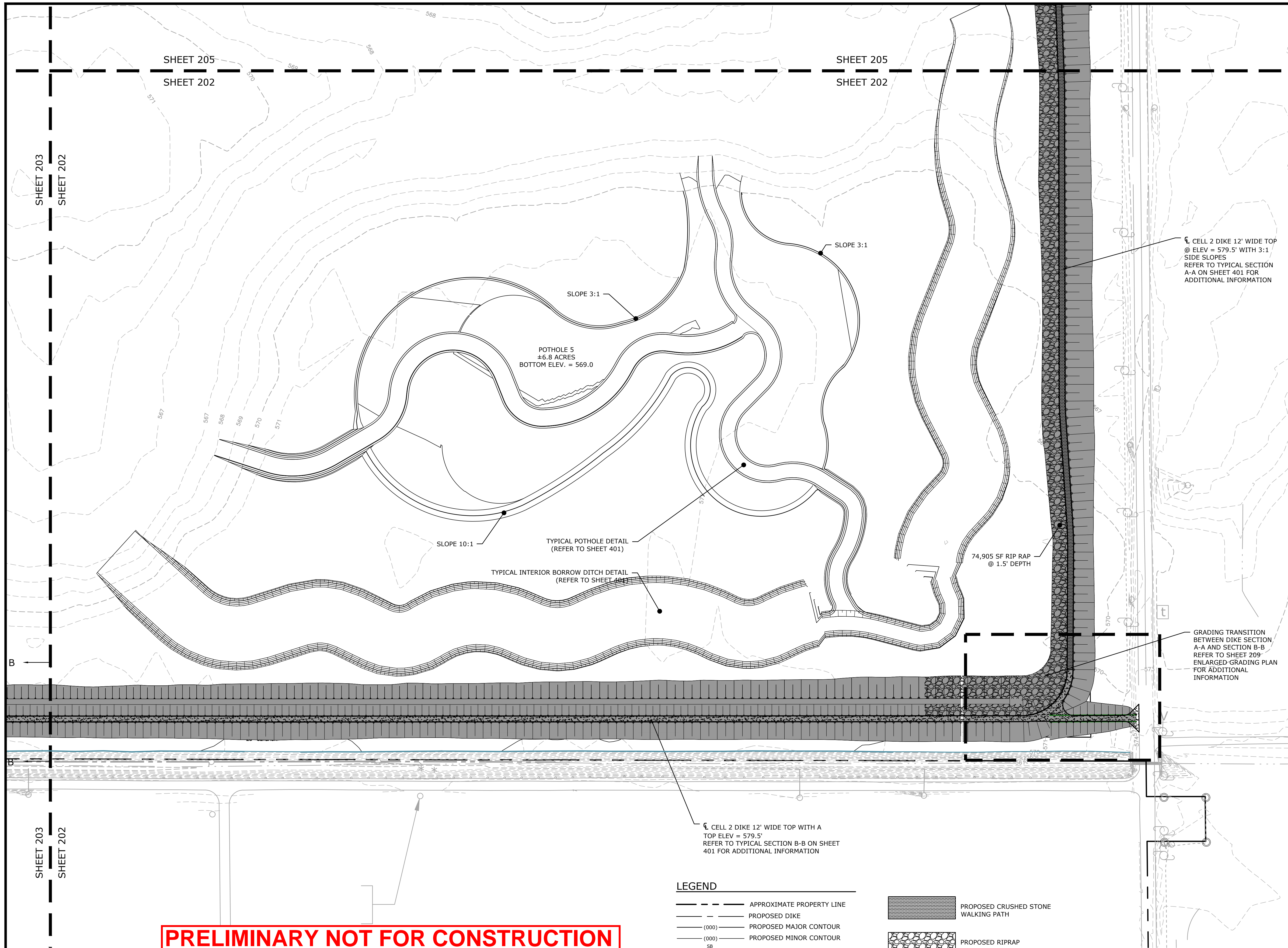
GLARO-XX0-000-201

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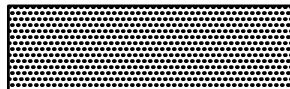

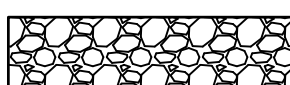



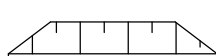





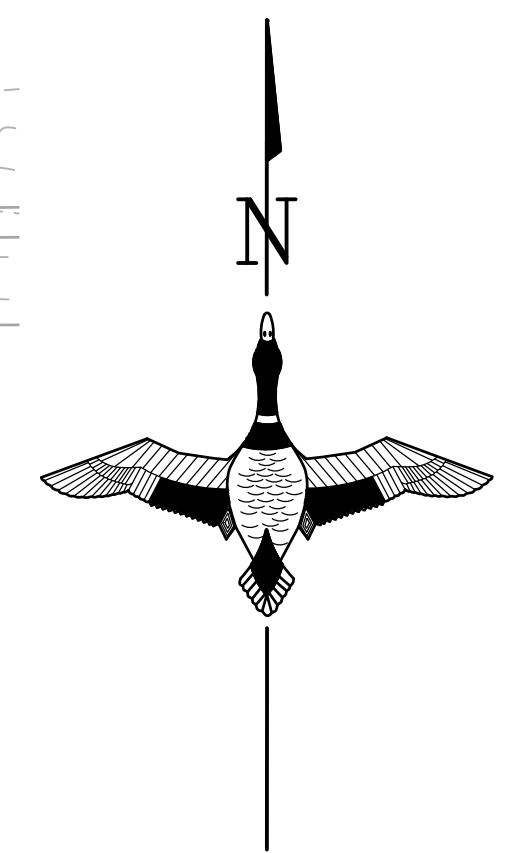
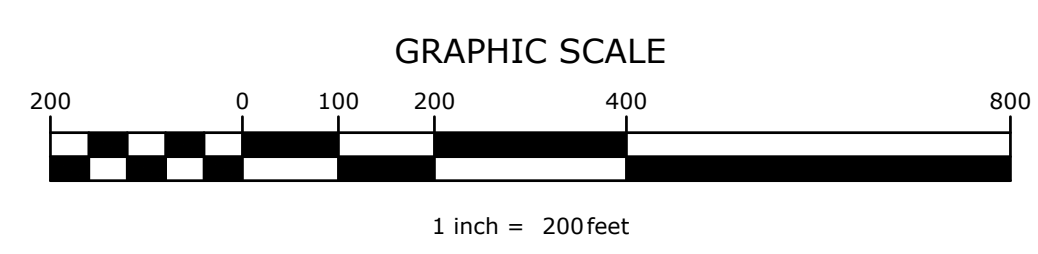
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- ## LEGEND
- |   |                               |   |                                     |
|---|-------------------------------|---|-------------------------------------|
|  | APPROXIMATE PROPERTY LINE     |  | PROPOSED CRUSHED STONE WALKING PATH |
|  | PROPOSED DIKE                 |  | PROPOSED RIPRAP                     |
|  | PROPOSED MAJOR CONTOUR        |  | PROPOSED DIKE AND FILL GRADING      |
|  | PROPOSED MINOR CONTOUR        |  | PROPOSED DITCH                      |
|  | SOIL BORING                   |   |                                     |
|  | BENCHMARK                     |   |                                     |
|  | PROPOSED CRUSHED STONE PAVING |   |                                     |



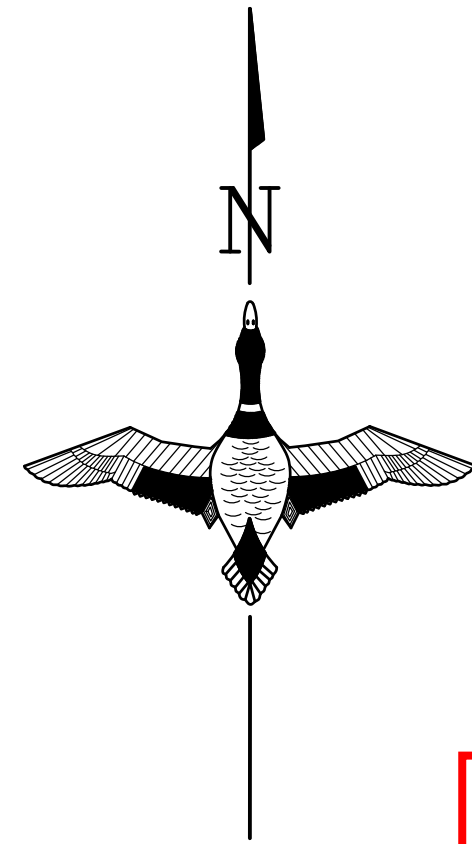
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	DRAWN BY: PML
	SURVEYED BY: GB
	BIOLOGIST: RT
	DATE: NOV. 2018
	PROJECT NUMBER: US-OH-038-5
GLARO-XX0-000-202	

ENLARGED DIKE PLAN 102+00  
-121+00 & 0+00-15+00  
HOWARD FARMS CELL 2  
WETLAND ENHANCEMENT  
TOLEDO, OHIO  
LUCAS COUNTY

ENLARGED DIKE PLAN 102+00  
-121+00 & 0+00-15+00  
HOWARD FARMS CELL 2  
WETLAND ENHANCEMENT  
TOLEDO, OHIO  
LUCAS COUNTY



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**PRELIMINARY NOT FOR CONSTRUCTION**

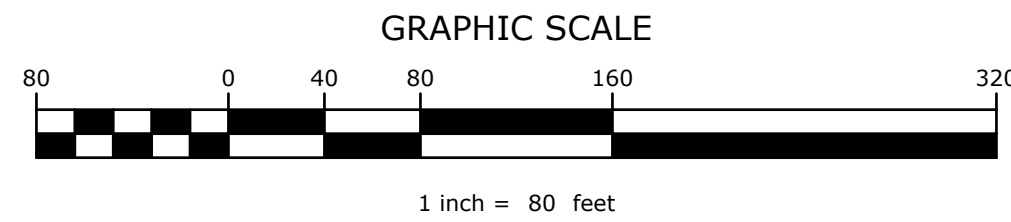
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- LEGEND**
- APPROXIMATE PROPERTY LINE
  - - - PROPOSED DIKE
  - (000) PROPOSED MAJOR CONTOUR
  - (000) PROPOSED MINOR CONTOUR
  - SOIL BORING
  - ⊕ BENCHMARK
  - ▨ PROPOSED CRUSHED STONE PAVING

- ▨ PROPOSED CRUSHED STONE WALKING PATH
- ▨ PROPOSED RIPRAP
- ▨ PROPOSED DIKE AND FILL GRADING
- ▨ PROPOSED DITCH



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ON:

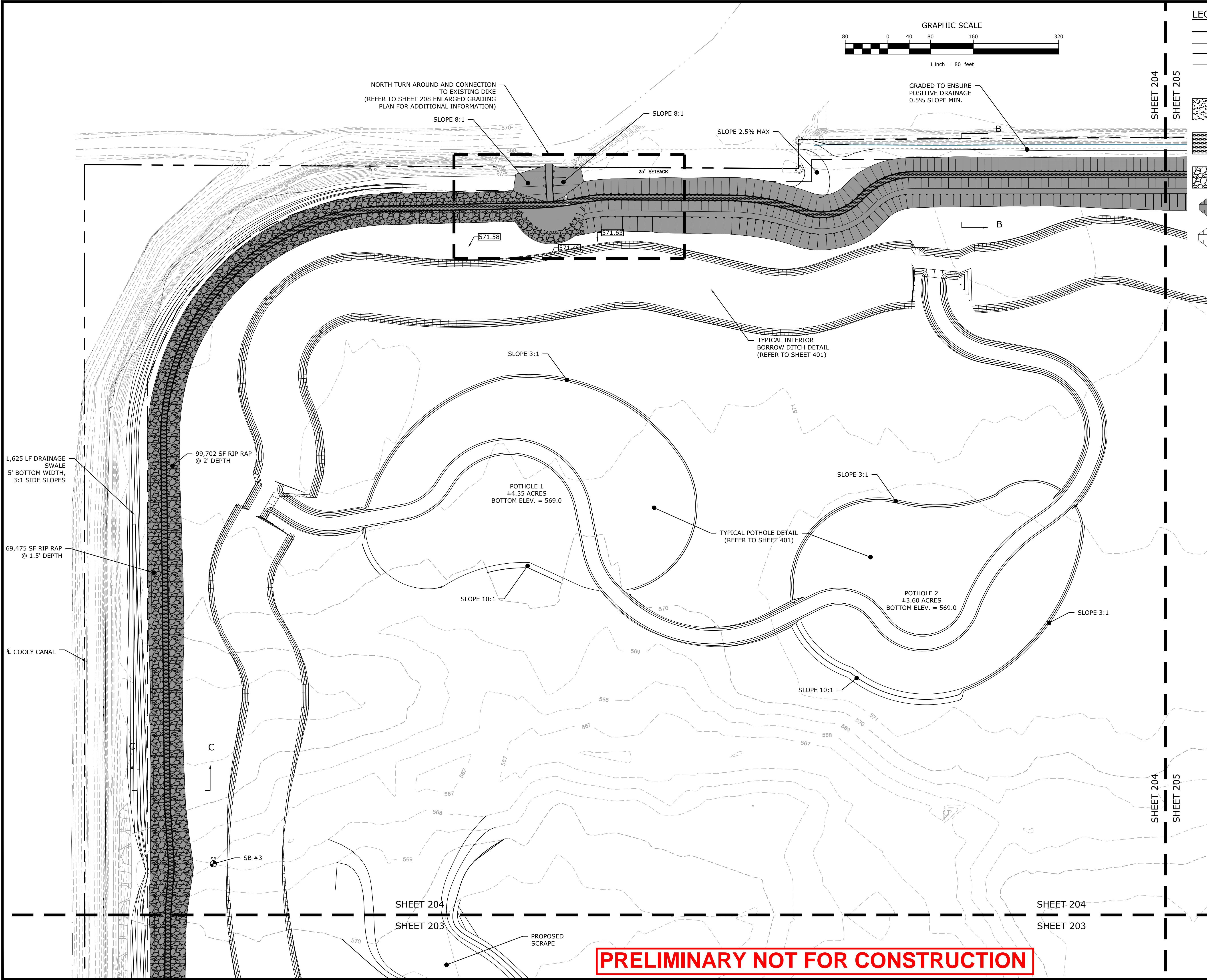
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DRAWN BY: PML  
SURVEYED BY: GB  
BIOLOGIST: RT  
DATE:  
NOV. 2018  
PROJECT NUMBER:  
US-OH-038-5  
GLARO-XXO-000-203

ENLARGED DIKE PLAN 12+00 -  
45+00  
HOWARD FARMS CELL 2  
WETLAND ENHANCEMENT  
TOLEDO, OHIO  
LUCAS COUNTY

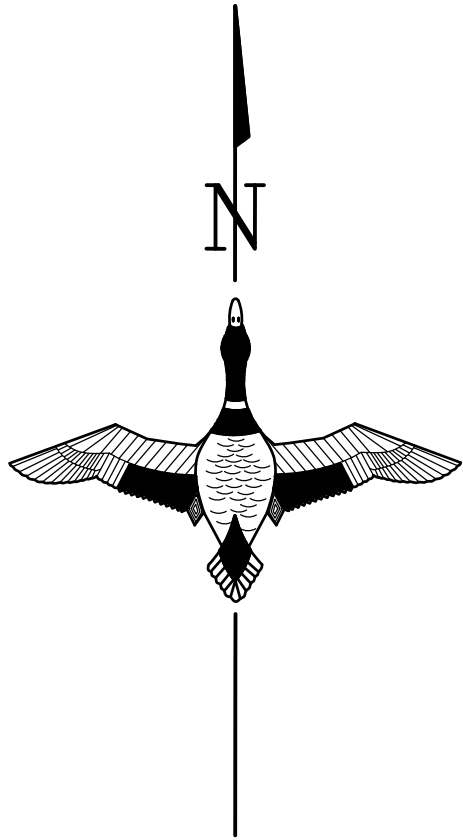
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7322 NEWMAN BOULEVARD, BUILDING 1  
DEXTER, MICHIGAN 48130  
(734) 623-2000 www.ducks.org  
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- LEGEND**
- APPROXIMATE PROPERTY LINE
  - - - PROPOSED DIKE
  - (000) PROPOSED MAJOR CONTOUR
  - (000) PROPOSED MINOR CONTOUR
  - ⊙ SOIL BORING
  - ⊙ BENCHMARK
  - [Pattern] PROPOSED CRUSHED STONE PAVING
  - [Pattern] PROPOSED CRUSHED STONE WALKING PATH
  - [Pattern] PROPOSED RIPRAP
  - [Pattern] PROPOSED DIKE AND FILL GRADING
  - [Pattern] PROPOSED DITCH



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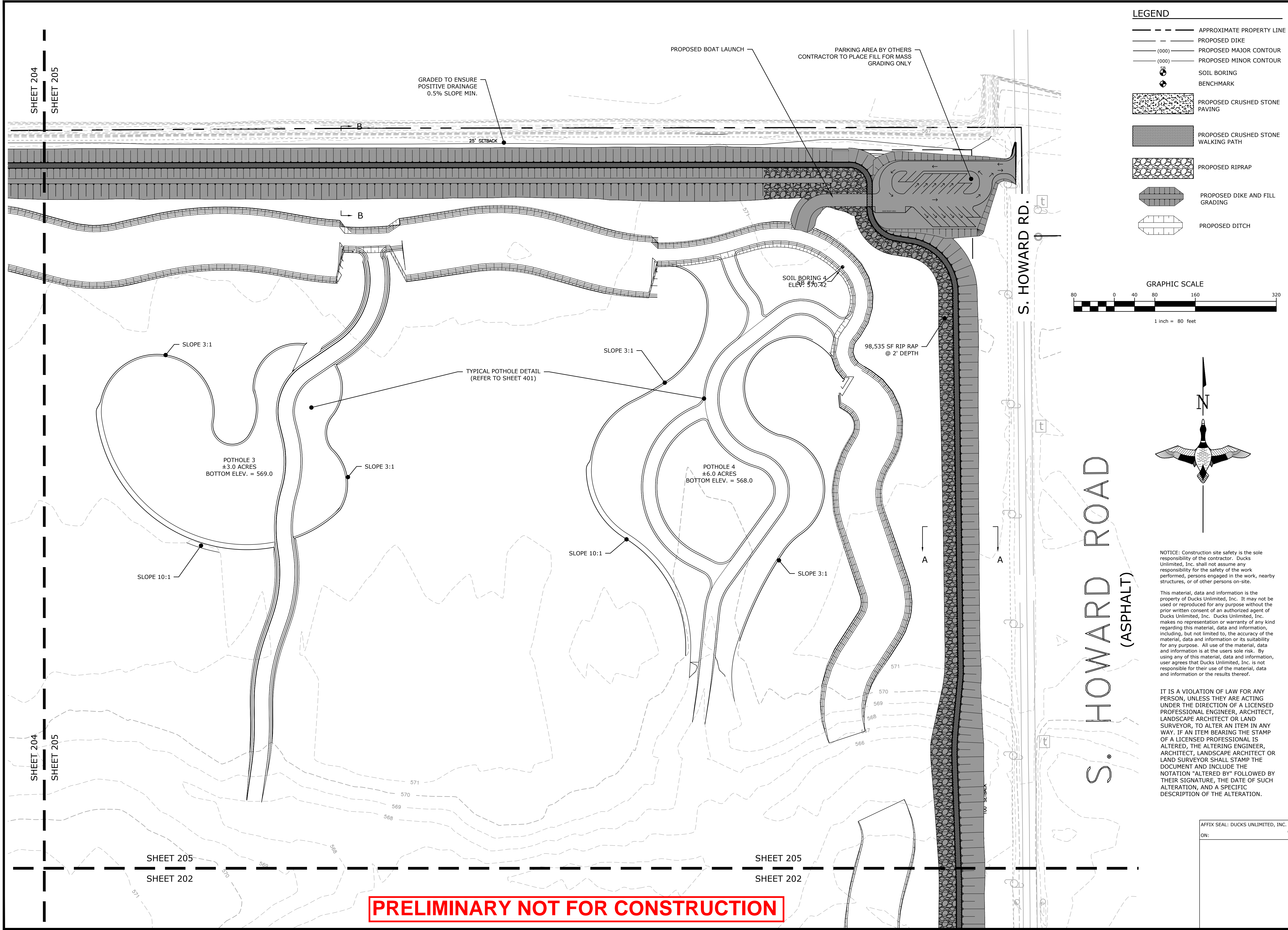
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ON:




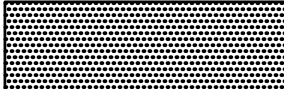
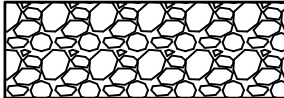
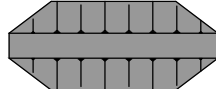
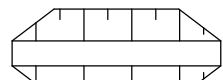
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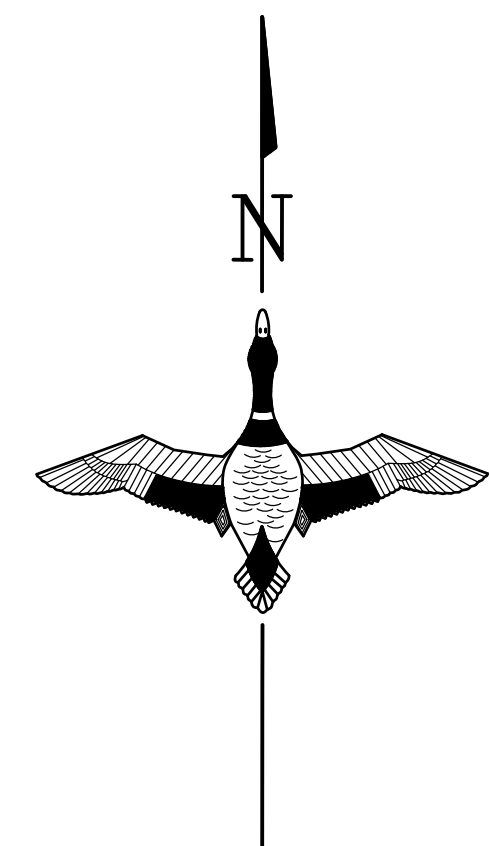
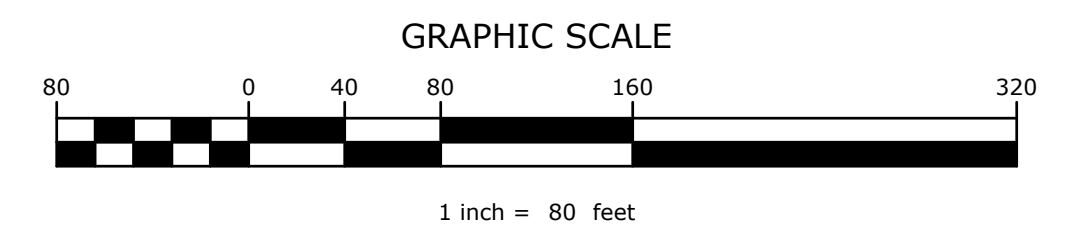
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DRAWN BY:	PML
SURVEYED BY:	GB
BIOLOGIST:	RT
DATE:	NOV. 2018
PROJECT NUMBER:	US-OH-038-5
	GLARO-XXO-000-204





# LEGEND

---	APPROXIMATE PROPERTY LINE
—	PROPOSED DIKE
(000)	PROPOSED MAJOR CONTOUR
(000)	PROPOSED MINOR CONTOUR
	SOIL BORING
	BENCHMARK
	PROPOSED CRUSHED STONE PAVING
	PROPOSED CRUSHED STONE WALKING PATH
	PROPOSED RIPRAP
	PROPOSED DIKE AND FILL GRADING
	PROPOSED DITCH



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AFFX SEAL: DUCKS UNLIMITED, INC. ON:	CAD FILE:
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	BIOLOGIST: RT
	DATE: NOV. 2018
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	GLARO-XX0-000-205

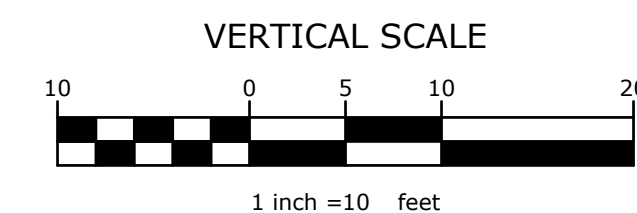
ENLARGED DIKE PLAN  
70+00 - 104+00  
HOWARD FARMS CELL 2  
WETLAND ENHANCEMENT  
TOLEDO, OHIO  
LUCAS COUNTY



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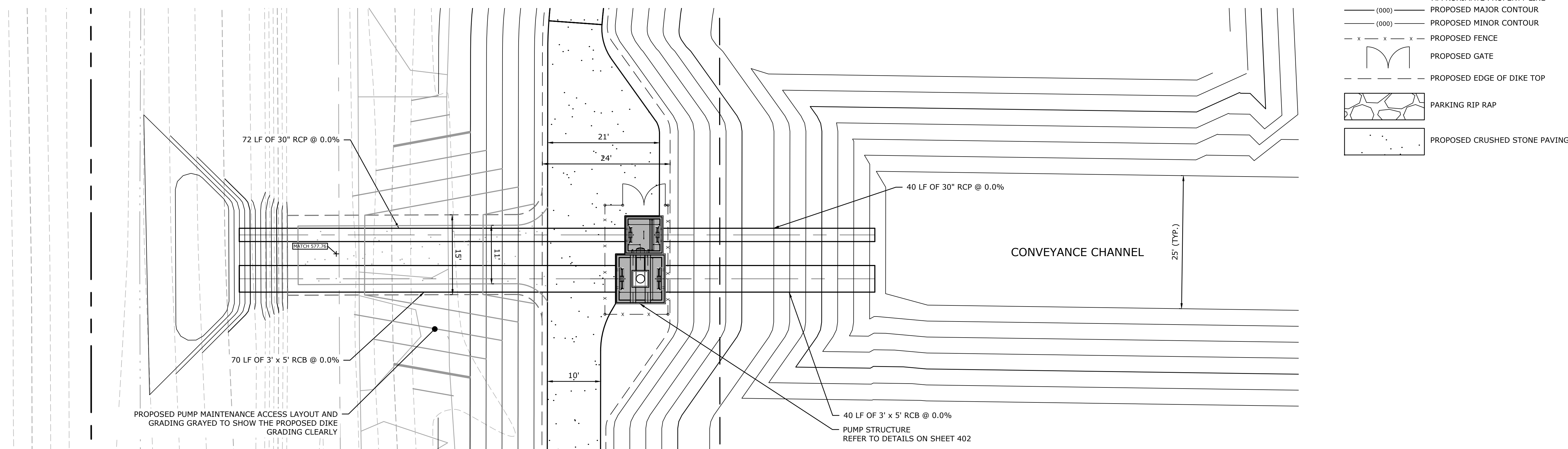


ENLARGED PARKING LOT  
PLAN  
HOWARD FARMS CELL 2  
WETLAND ENHANCEMENT  
TOLEDO, OHIO  
LUCAS COUNTY

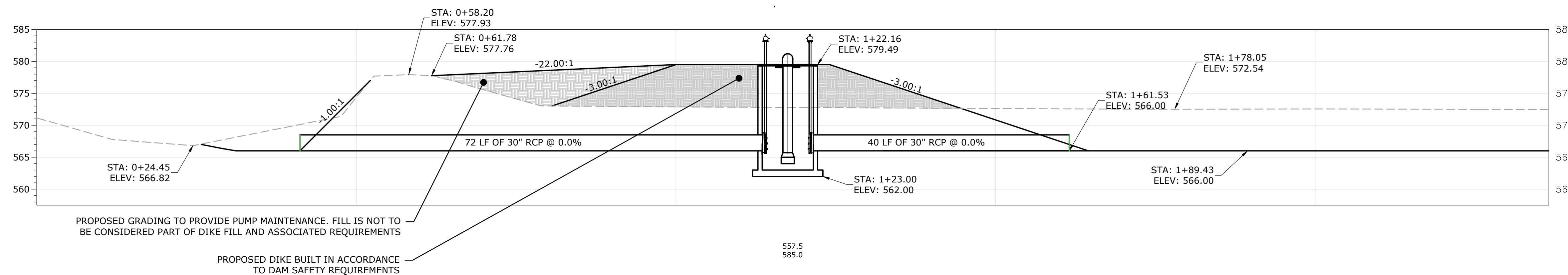
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DRAWN BY:	PML
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BIOLOGIST:	RT
DATE:	NOV. 2018
PROJECT NUMBER:	US-OH-038-5
GLARO-XX0-000-206	



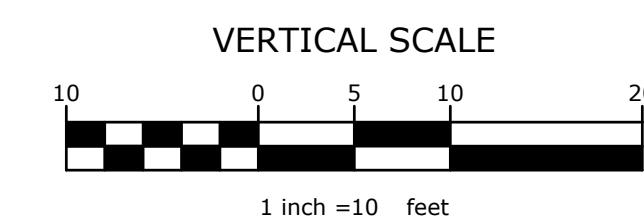
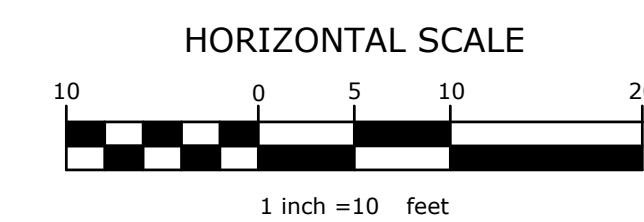
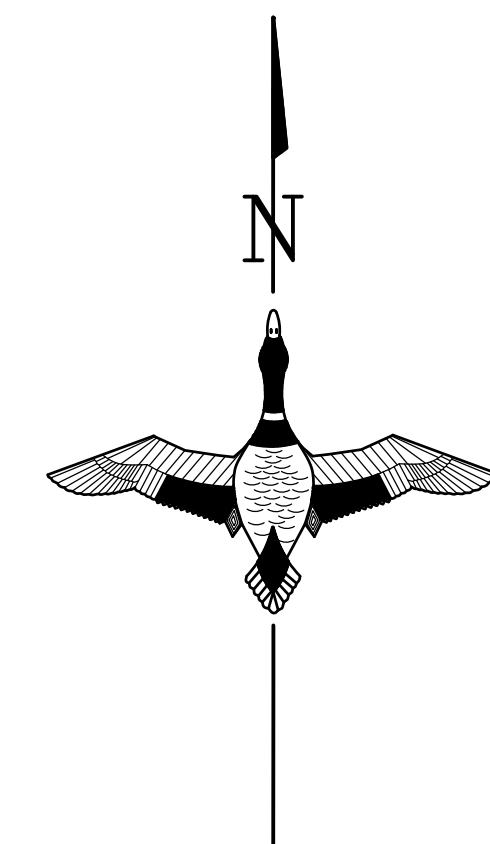


## PUMP STRUCTURE PLAN VIEW



## PUMP STRUCTURE PROFILE

**NOTE:**  
PUMP PROFILE IS INTENDED TO SHOW THE DETAIL FOR PIPES AND STRUCTURE LAYOUTS, LENGTHS AND INVERTS. FOR ADDITIONAL PUMP DETAILS, GRADING AND INSTALLATION INFORMATION REFER TO PUMP DETAILS ON SHEETS 401 - 404 AND CONSTRUCTION SPECIFICATIONS.



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ON:

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(734) 623-2000 [www.ducks.org](http://www.ducks.org)  
**DUCKS UNLIMITED**

ENLARGED PUMP PLAN  
HOWARD FARMS CELL 2  
WETLAND ENHANCEMENT  
TOLEDO, OHIO  
LUCAS COUNTY

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C:\Users\Plydon\Desktop\working folder for taking home drawings\OH-38-5 Howard Farms Cell 2\C3D DRAWING\OH-38-5 200 Site Plan.dwg, 6/11/2020 2:27 PM, Patrick Lydon, 206PumpPlan10 Scale, None

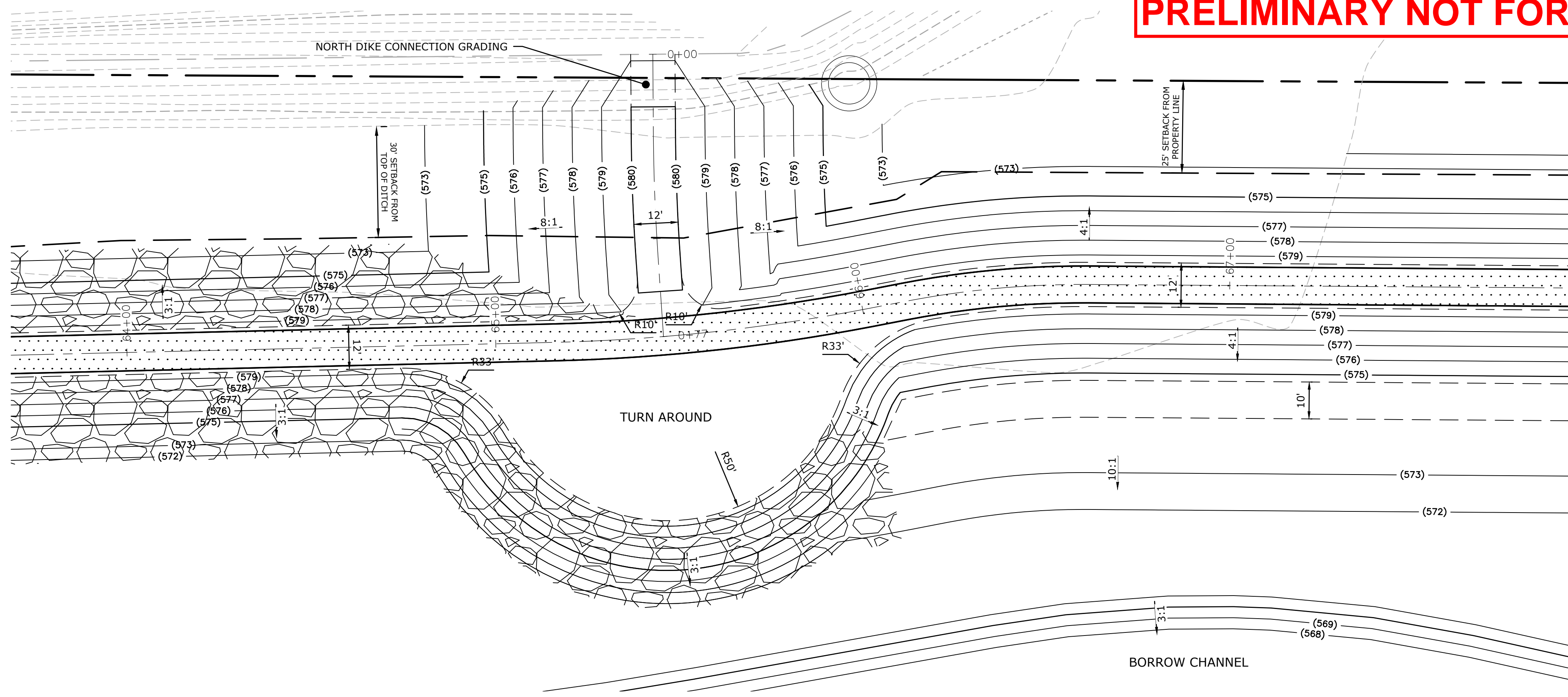


Know what's below  
Call before you dig

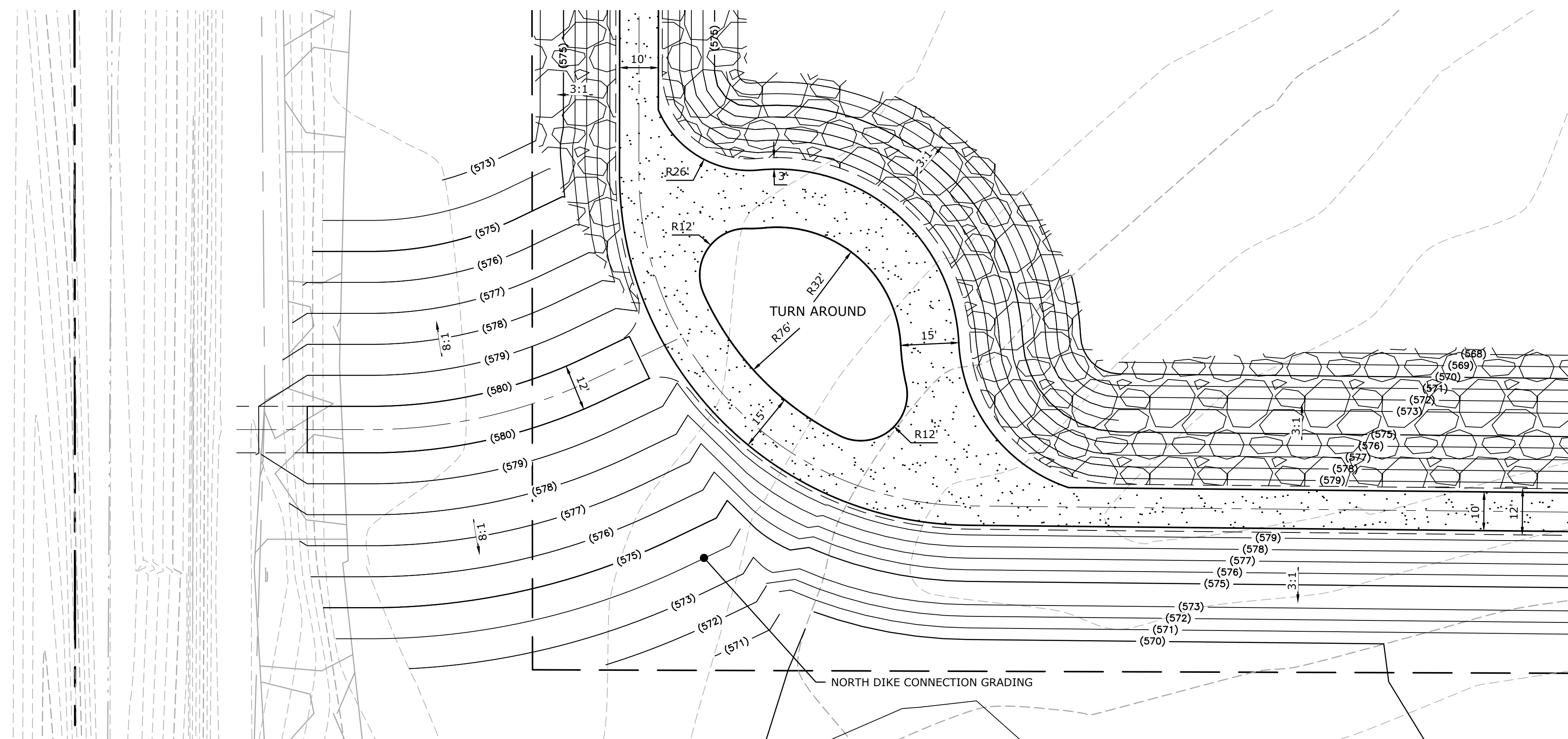
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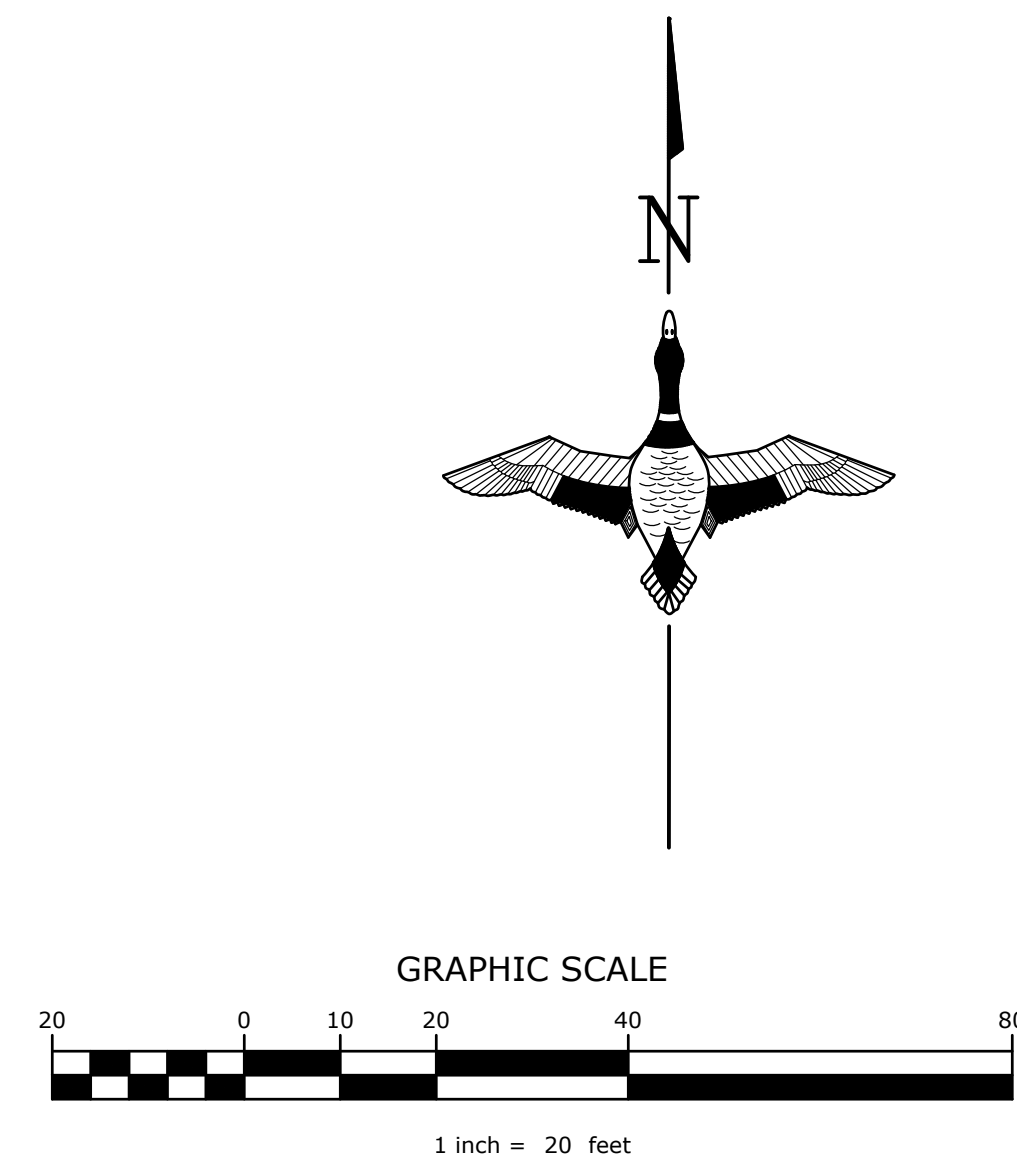
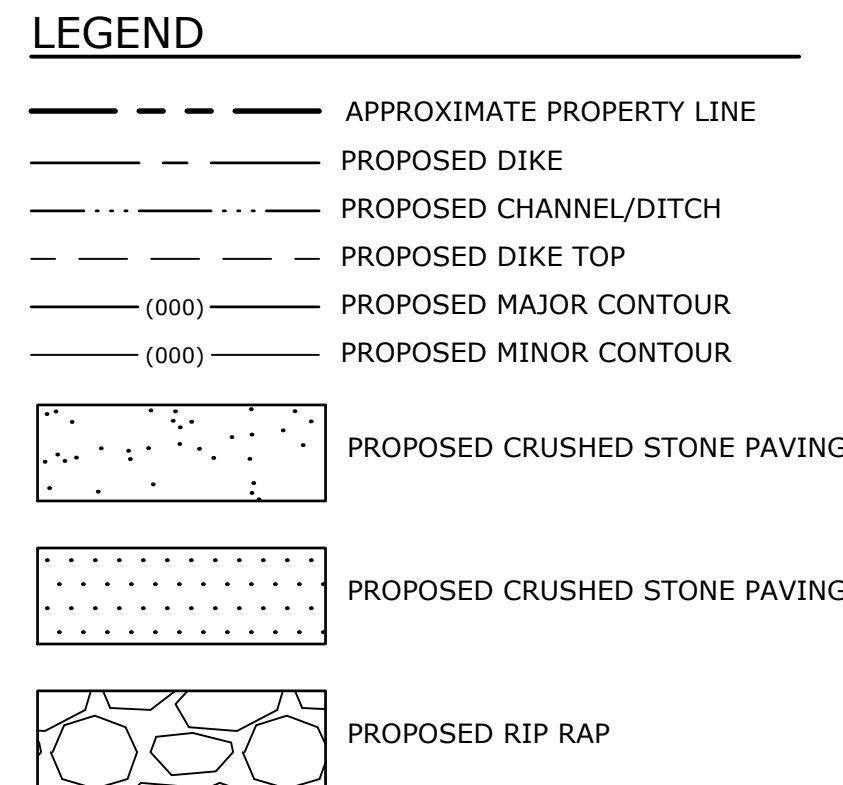
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# NORTH DIKE CONNECTOR AND TURN AROUND



# SOUTHERN DIKE CONNECTOR AND TURN AROUND



AFFIX SEAL: DUCKS UNLIMITED, INC  
ON:

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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7322 NEWMAN BOULEVARD, BUILDING 1  
DEXTER, MICHIGAN 48130  
(734) 623-2000 [www.ducks.org](http://www.ducks.org)

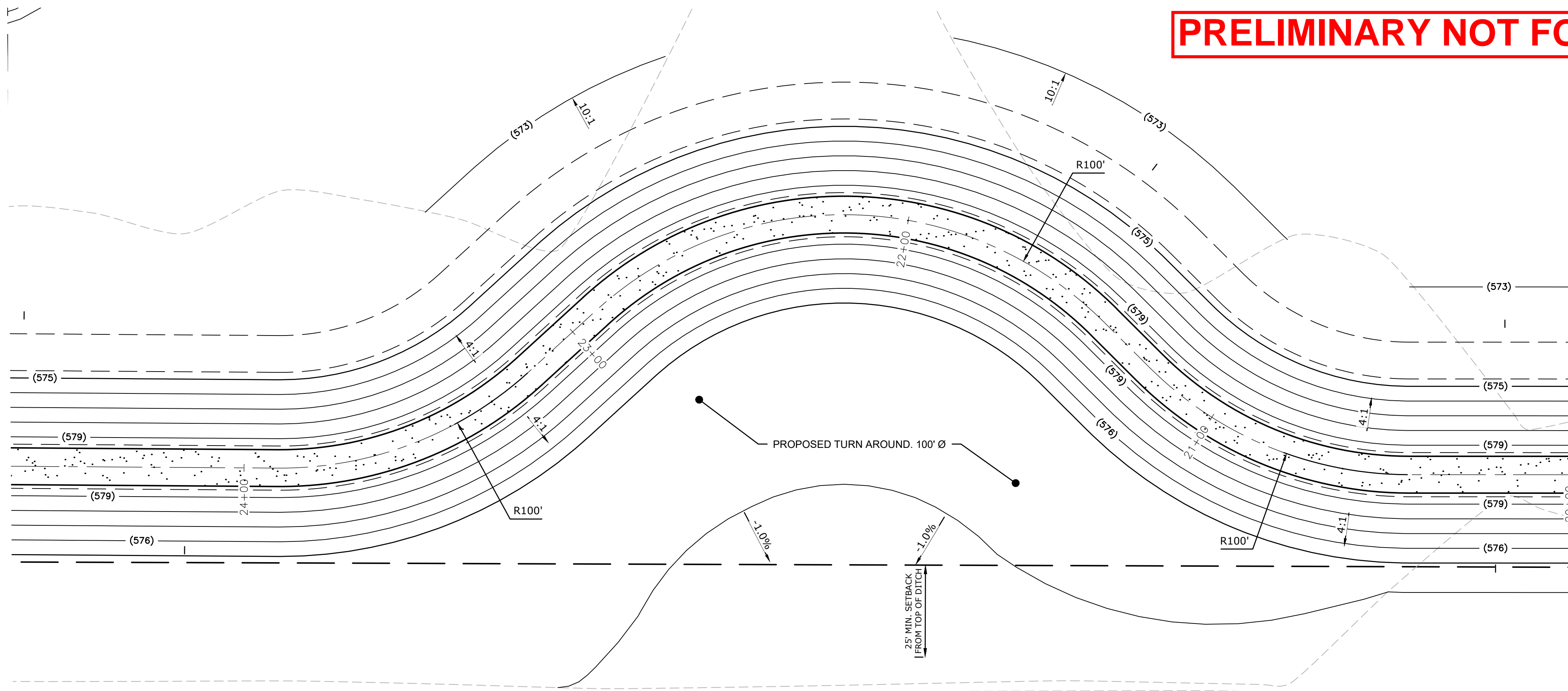
**DUCKS UNLIMITED**

ENLARGED GRADING PLAN  
HOWARD FARMS CELL 2  
WETLAND ENHANCEMENT  
TOLEDO, OHIO  
LUCAS COUNTY

[illegible]

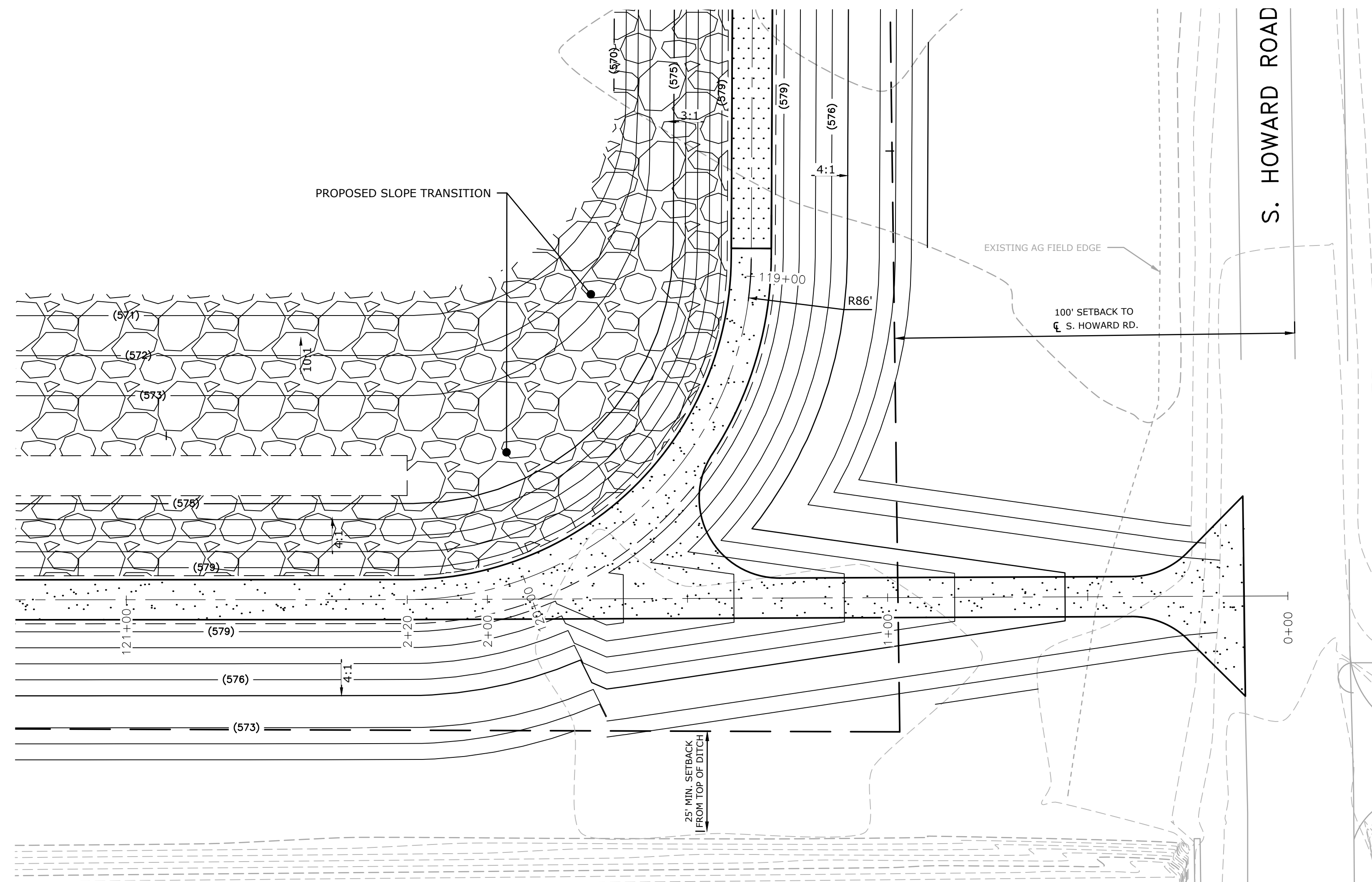


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# SOUTH DIKE TURN AROUND

NO SCALE



# SOUTHERN DIKE TRANSITION GRADING

### LEGEND

- APPROXIMATE PROPERTY LINE

PROPOSED DIKE

PROPOSED CHANNEL/DITCH

PROPOSED DIKE TOP

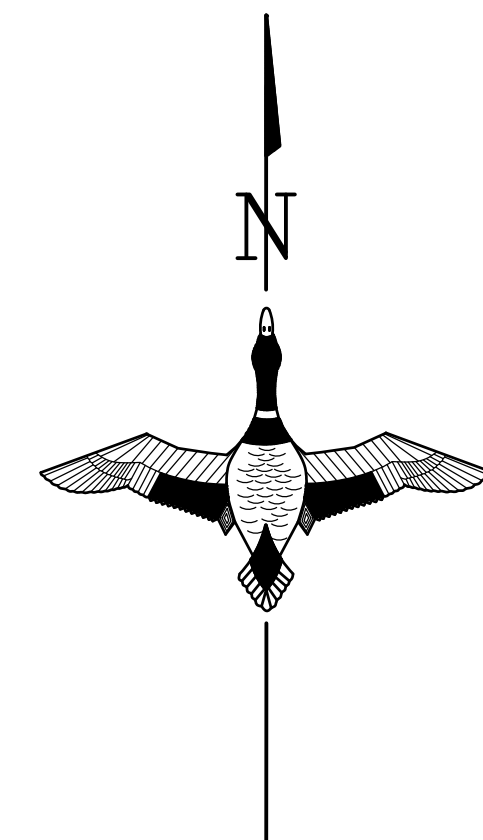
PROPOSED MAJOR CONTOUR  
(000)

PROPOSED MINOR CONTOUR  
(000)

PROPOSED CRUSHED STONE PAVING

PROPOSED CRUSHED STONE WALKING PATH

PROPOSED RIP RAP



GRAPHIC SCALE



1 inch = 20 feet

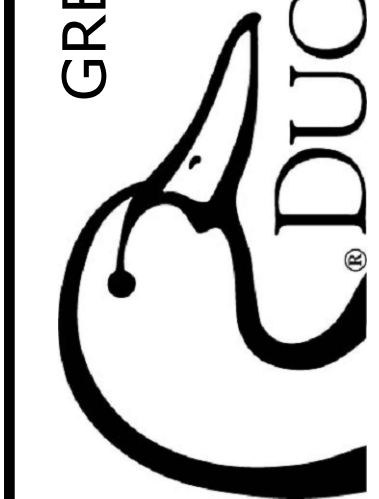
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7322 NEWMAN BOULEVARD, BUILDING 1



ENLARGED GRADING PLAN  
HOWARD FARMS CELL 2  
WETLAND ENHANCEMENT  
TOLEDO, OHIO  
LUCAS COUNTY

[illegible]

CAD FILE:  
OH-38-5\_200 Site Plan

DESIGNED BY: BN

DRAWN BY: PML

SURVEYED BY: GB

BIOLOGIST: RT

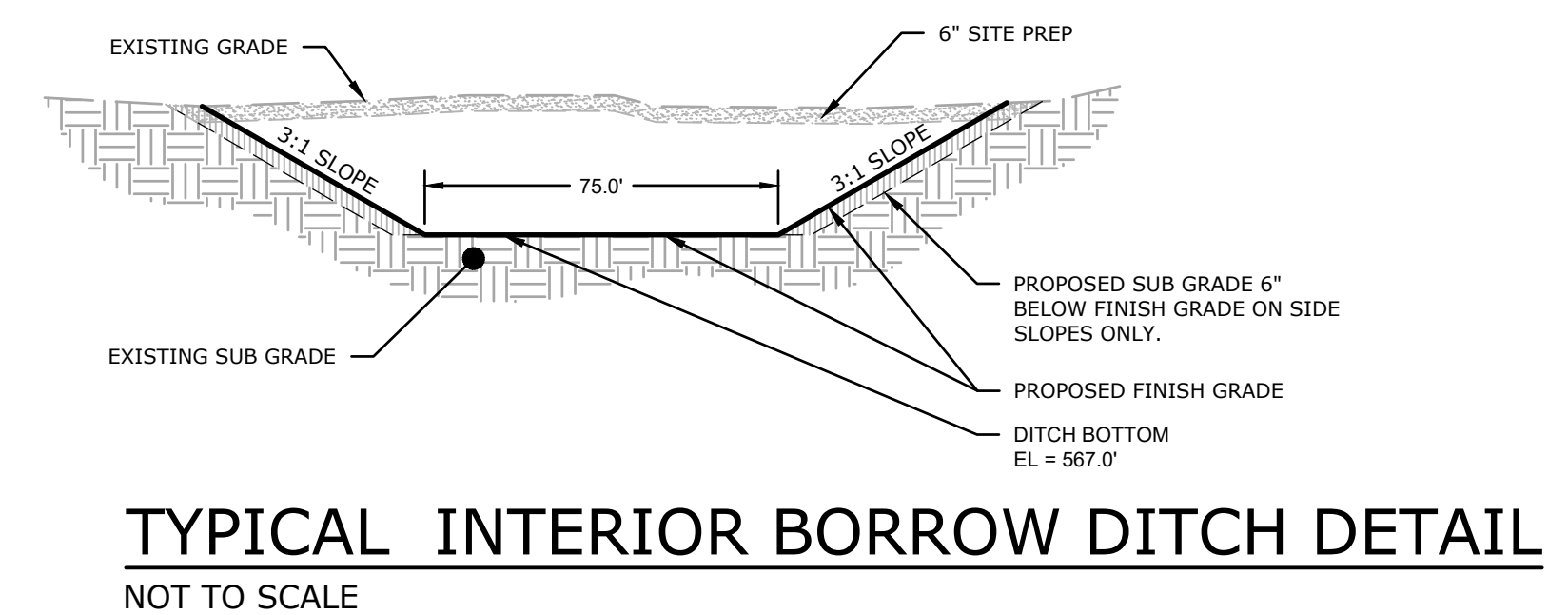
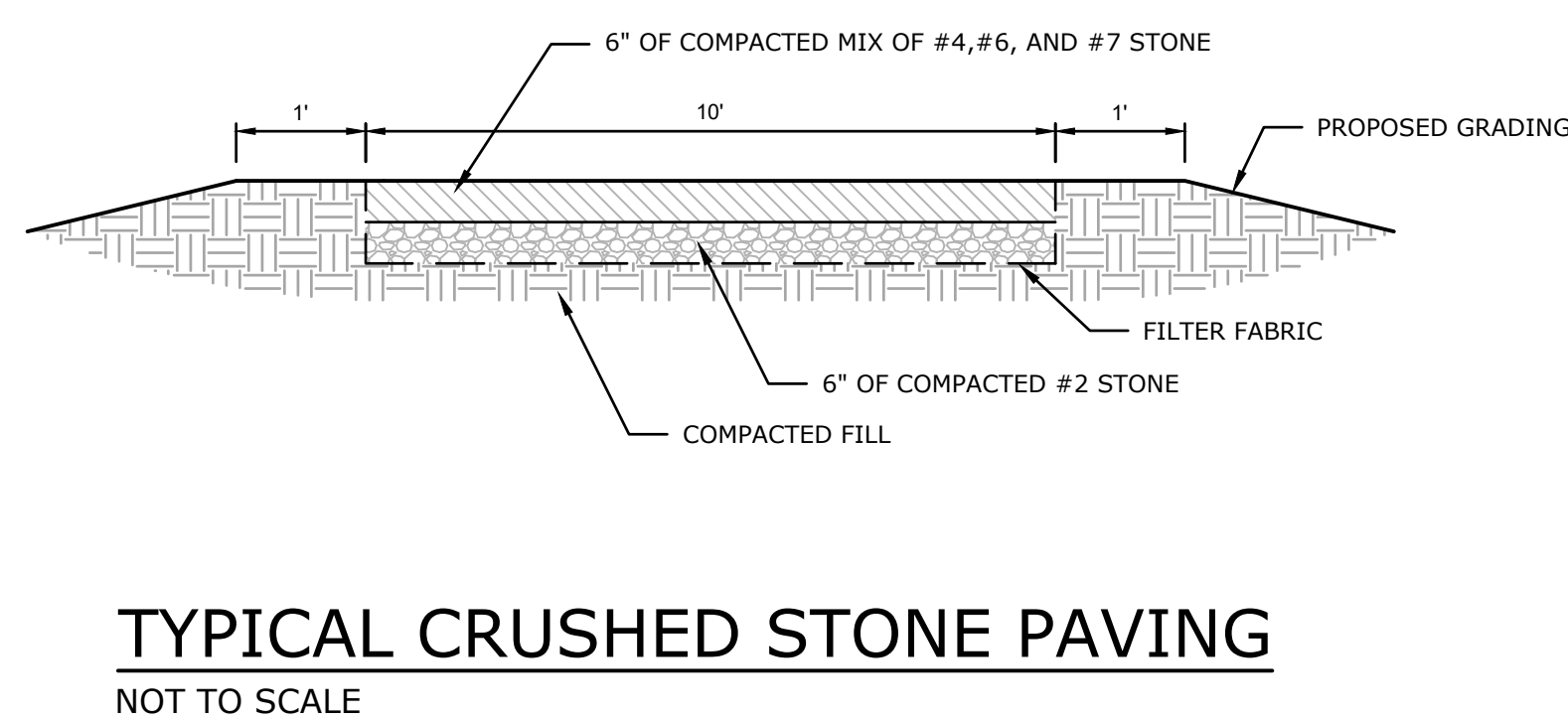
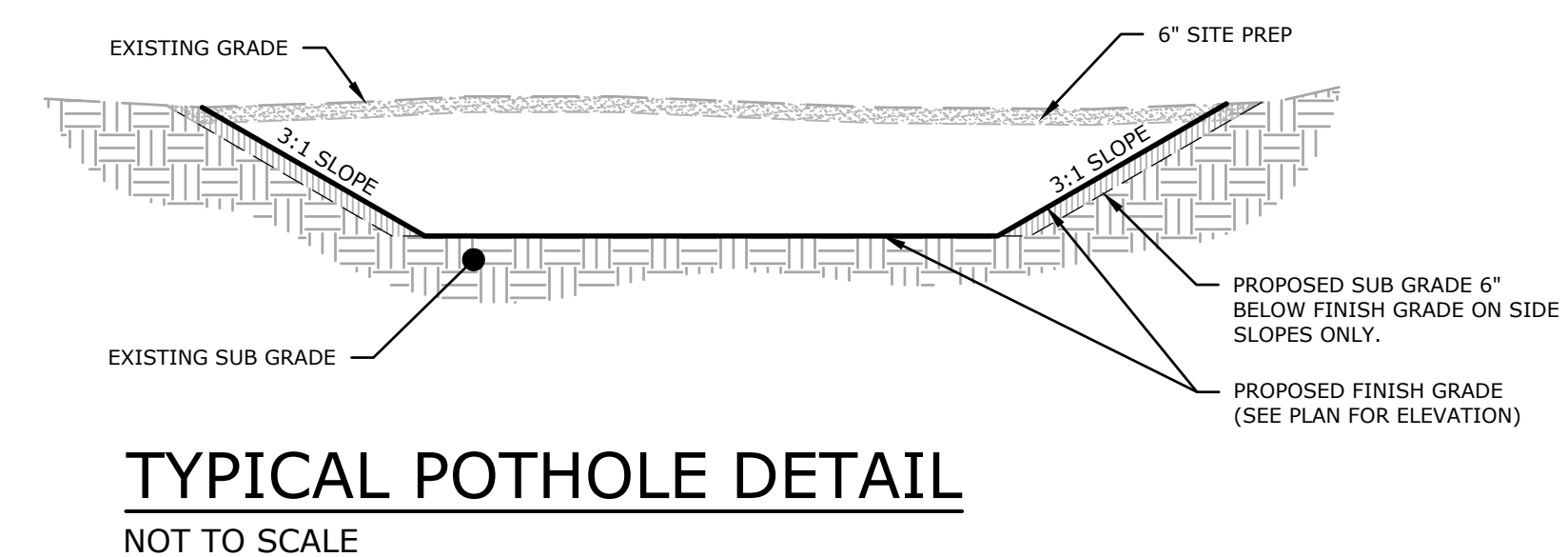
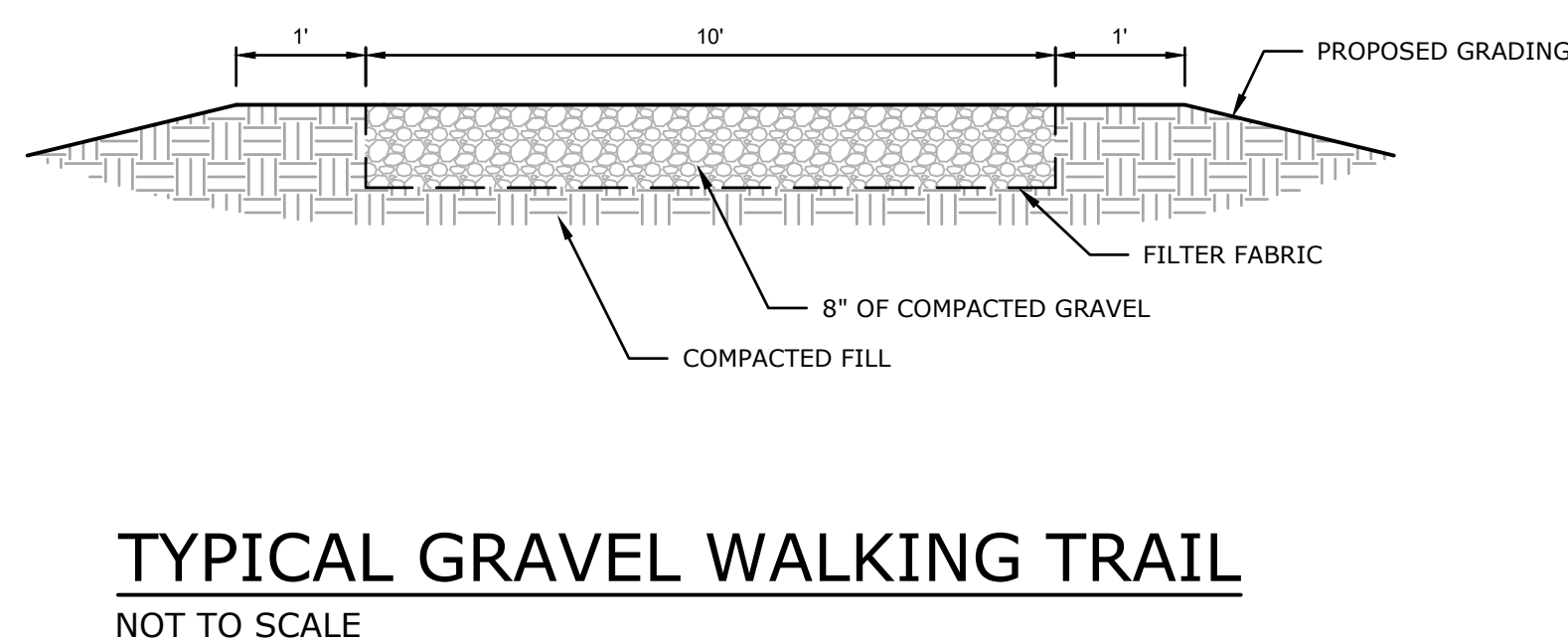
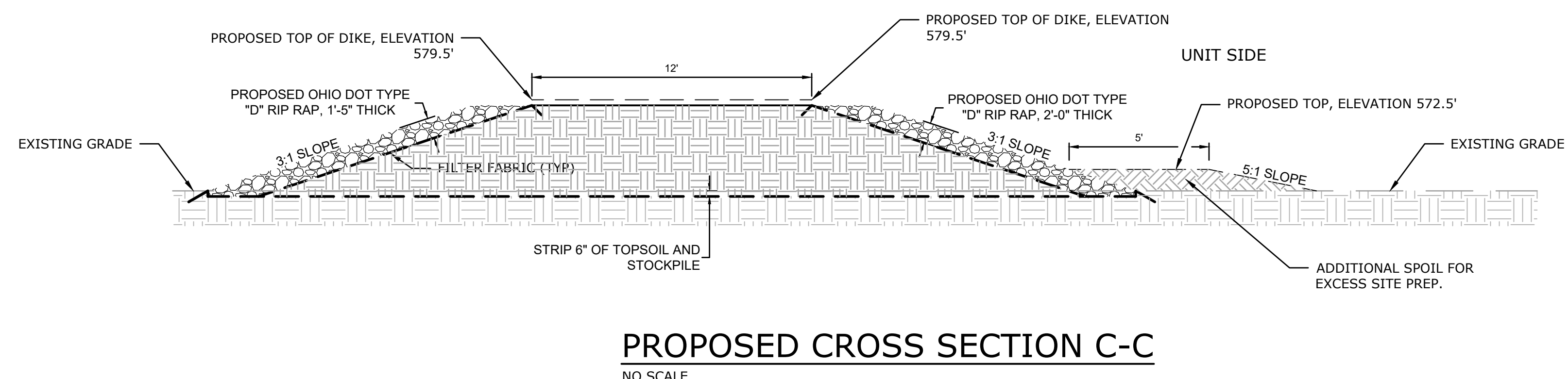
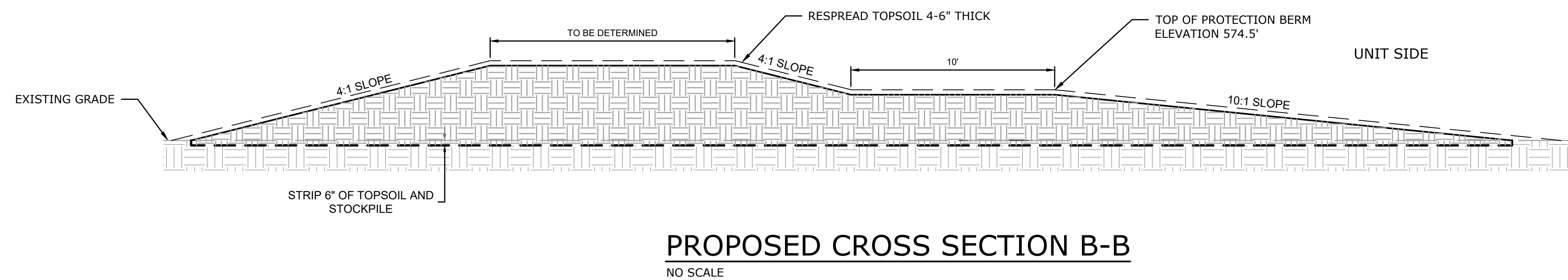
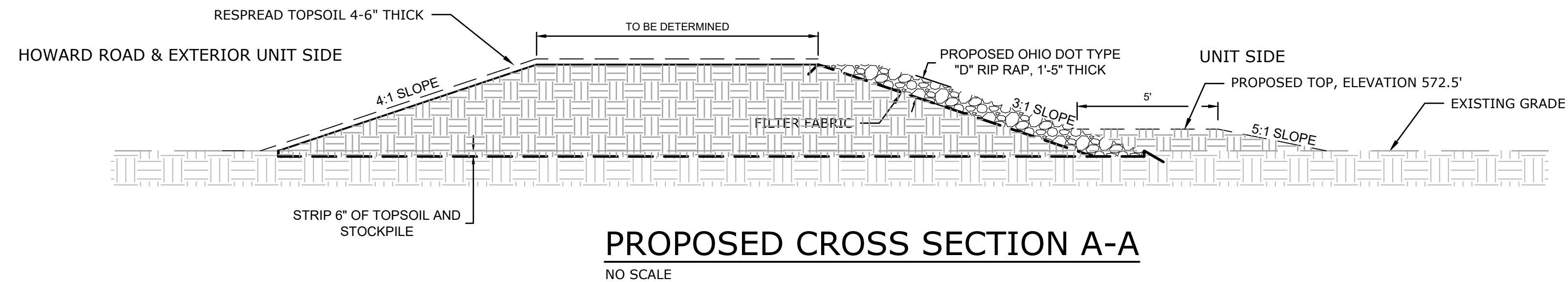
DATE:  
NOV. 2018

PROJECT NUMBER:

US-OH-038-5

GLARO-XX0-000-209





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[illegible]









### PUMP DISCHARGE FLAPGATE DETAIL

NO SCALE



PROVIDE 12



NOT TO SCALE

### LOCKING ROD DETAIL

NOT TO SCALE



NOT TO SCALE



1. WELD 1/2"Ø BAR IN STOPLOGS.
2. STOPLOGS SHALL BE 1" SHORTER THAN WIDTH BETWEEN STOPLOG GUIDES.
3. FABRICATOR TO PROVIDE ONE 2" & ONE 3" STOPLOG IN ADDITION TO STOPLOGS SPECIFIED.

NOT TO SCALE



NOT TO SCALE

NOTE:  
L1 AND L2 EQUAL HEIGHT OF RISER PLUS 1' MAX  
LENGTH FOR EACH 5'. AFTER ADD A SECOND  
EXTENSION L3 2 PER STRUCTURE. MATERIAL TO BE  
STEEL.

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NOT TO SCALE

**PRELIMINARY NOT FOR CONSTRUCTION**



CONSTRUCTION DETAILS  
HOWARD FARMS CELL 2  
WETLAND ENHANCEMENT  
TOLEDO, OHIO  
LUCAS COUNTY

[illegible]

CAD FILE: OH-38-5_CONSTRUCTION DETAILS	
DESIGNED BY:	BN
DRAWN BY:	PML
SURVEYED BY:	GB
BIOLOGIST:	RT
DATE: NOV. 2018	
PROJECT NUMBER: US-OH-038-5	

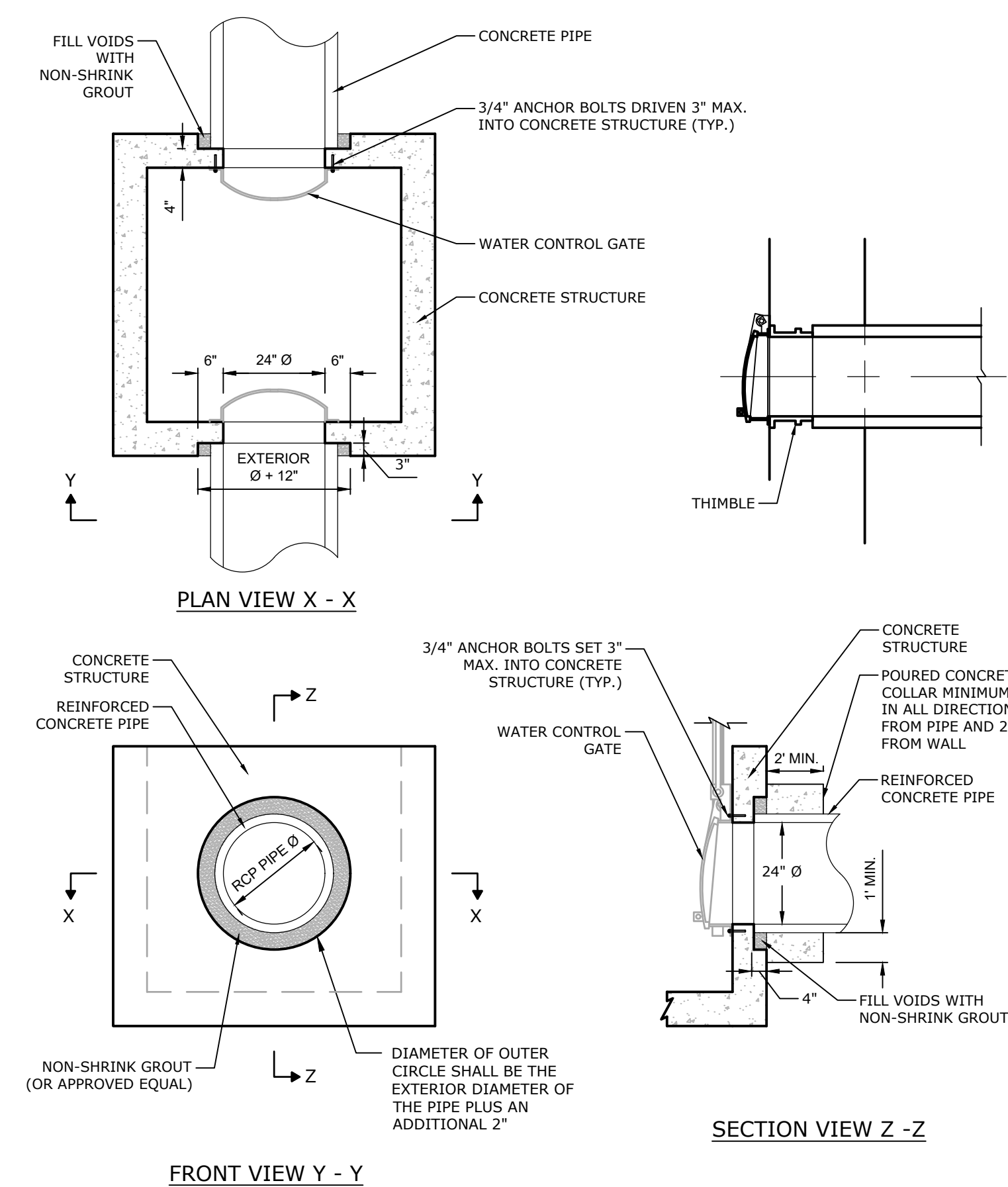
GLARO-XX0-000-403



**PRELIMINARY NOT FOR CONSTRUCTION**



CONSTRUCTION DETAILS  
HOWARD FARMS CELL 2  
WETLAND ENHANCEMENT  
TOLEDO, OHIO  
LUCAS COUNTY



NOTE: CONTRACTOR TO DECIDE WHETHER TO INSTALL WITH A PIPE OFFSET AND LEDGE OR A THIMBLE.

### CONCRETE STRUCTURE TO CONCRETE PIPE CONNECTION DETAIL

NOT TO SCALE

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CAD FILE: OH-38-5_CONSTRUCTION DETAIL	
DESIGNED BY:	BN
DRAWN BY:	PML
SURVEYED BY:	GB
BIOLOGIST:	RT
DATE: NOV. 2018	
PROJECT NUMBER: US-OH-038-5	

GLARO-XX0-000-404