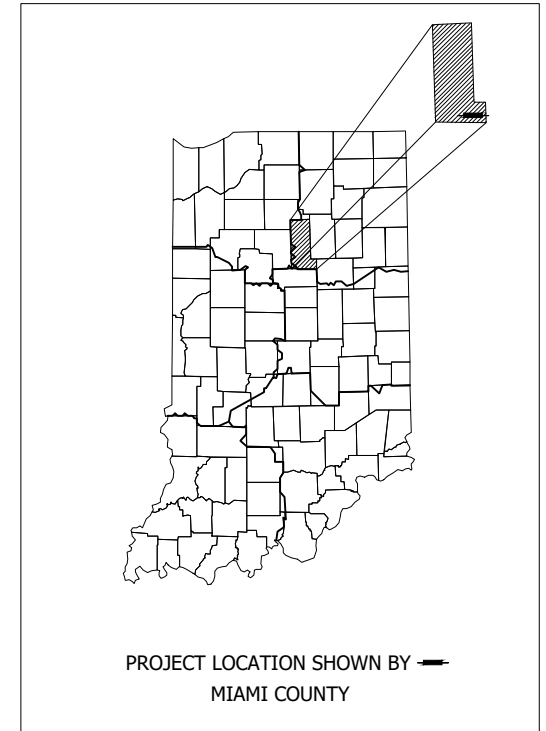


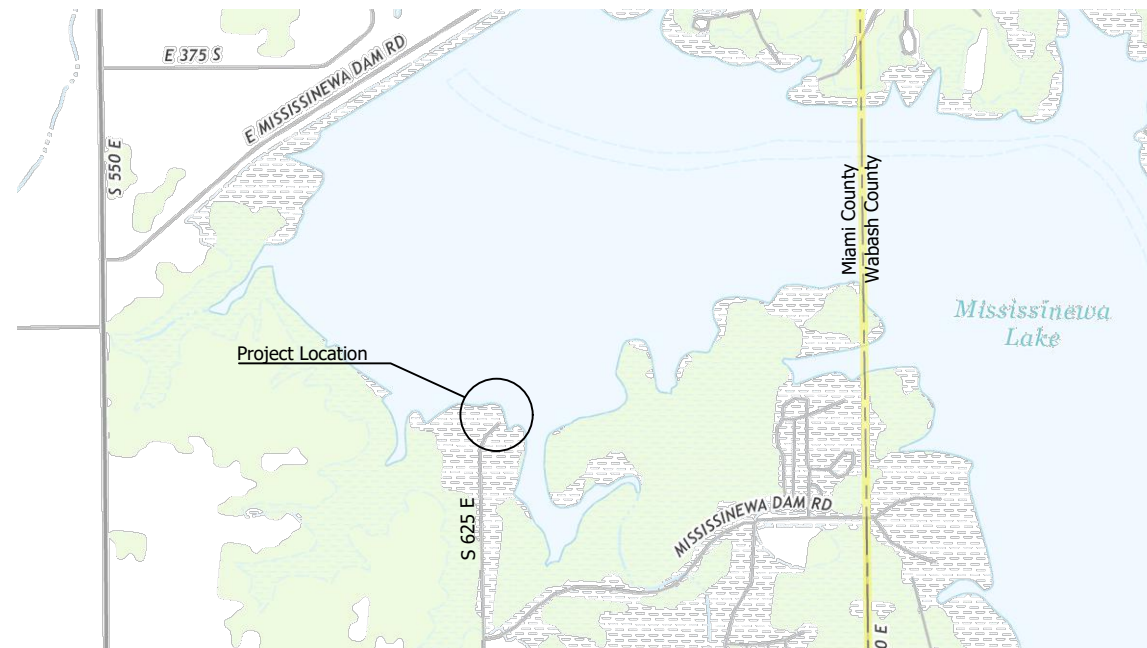
INDIANA DEPARTMENT OF ADMINISTRATION (IDOA)
 INDIANA DEPARTMENT OF NATURAL RESOURCES (IDNR)

PROJECT No. ENG2303758614
 MIAMI BOAT RAMP REPLACEMENT
 MISSISSINEWA RESERVOIR
 BUTLER TOWNSHIP, MIAMI COUNTY, INDIANA

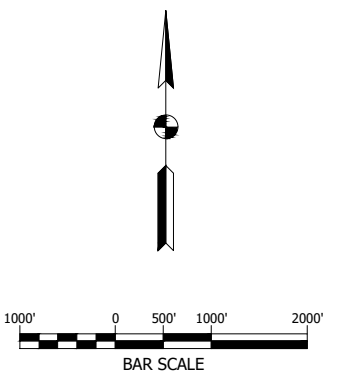
SECTION 15, T-26-N, R-5-E



DRAWING INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	LEGEND AND GENERAL NOTES
3	EXISTING CONDITIONS PLAN AND SURVEY CONTROL
4	SITE PLAN
5	CONSTRUCTION DETAILS
6	WELL POINT PLAN
7	GRADING PLAN
8	JOINT LAYOUT PLAN
9	EROSION CONTROL PLAN

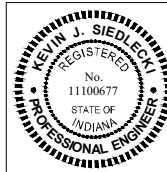


LOCATION MAP
 MIAMI COUNTY

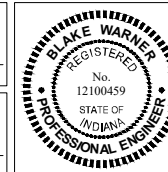


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Kevin Siedlecki
 SIGNATURE DATE 08/11/23
Blake Warner
 SIGNATURE DATE 08/11/23






















INDIANA DEPT. OF NATURAL RESOURCES
 MIAMI BOAT RAMP REPLACEMENT
 MISSISSINEWA RESERVOIR
 TITLE SHEET









REVISIONS	HORIZONTAL SCALE BARS SCALE	PROJECT NUMBER 202217.00
DRAWN: JAJ	SURVEY BOOK	SHEETS
CHECKED: BRW	DATE AUGUST 2023	1 OF 9

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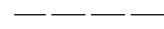
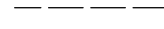


LEGEND:

-  Benchmark
-  Control Point
-  Soil Boring
-  Iron Found
-  Light Pole
-  Electric Handhole
-  Fiber Optic Marker
-  Post
-  Telephone Pedestal
-  Guy Pole
-  Guy Anchor
-  Power Pole
-  Water Valve
-  Curb Stop
-  Storm Inlet/Catch Basin
-  Storm Manhole
-  Combined Sewer Manhole
-  Sanitary Manhole
-  Sign - Single Post




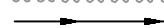

UTILITY PATTERNS

-  OH Ex. Overhead Line
-  EL Ex. Electrical Line
-  FO Ex. Fiber Optic Line
-  Ex. Gas Line
-  Ex. Water Line
-  Ex. Utility
-  Ex. Sanitary Sewer
-  Ex. Storm Sewer

R/W PATTERNS

-  Ex. Existing R/W
-  Property Line
-  Section Line
-  Easement

MISCELLANEOUS LINES

-  Tree/Vegetation Line
-  Centerline of Ditch
-  Ex. Chain-Link Type Fence
-  Ex. Riprap
-  Proposed Centerline of Ditch

PUBLIC UTILITY

The existing utilities listed below and shown on these plans represent the best information available as obtained on our surveys. This information does not relieve the contractor of the responsibility to be satisfied as to its accuracy and the location of existing utilities.

OWNER

UTILITY

GENERAL NOTES:

1. All items shown are existing unless otherwise indicated as required.
2. The contractor shall locate all underground utilities prior to starting work and shall conduct his operation in such manner as to insure that those utilities will not be disturbed.
3. Any damage to access roads, bridges, private or public property, and to existing structure not specified to be altered and caused by the contractor during construction shall be repaired at the expense of the contractor.
4. Prior to starting construction the contractor shall conduct check surveys on each aspect of the work as provided in the specifications. The results of the check surveys may affect the quantities.
5. If any errors become apparent, they shall be brought to the attention of the engineer prior to construction so that clarification or redesign may occur.
6. Contractor shall power wash all equipment upon arriving on site in order to decrease the spread of any invasive species.
7. Contractor shall not remove trees between April 1st to October 1st due to date restrictions with the endangered Indiana bat species.
8. Contractor shall seed and mulch all disturbed areas within the construction limits unless noted otherwise.
9. INDOT Standard Specification latest edition, shall be used with these plans.

INDIANA 811



Per Indiana State Law IC-8-1-26-16: It is against the law to excavate without notifying the underground location service two (2) working days before commencing work.

INDIANA 811
1-800-382-5544 OR CALL 811
24 HOURS A DAY 7 DAYS A WEEK

Note: Utility locations are shown based upon information (maps and paint marks) supplied by others, and there is not guarantee of the accuracy or completeness of said locations.

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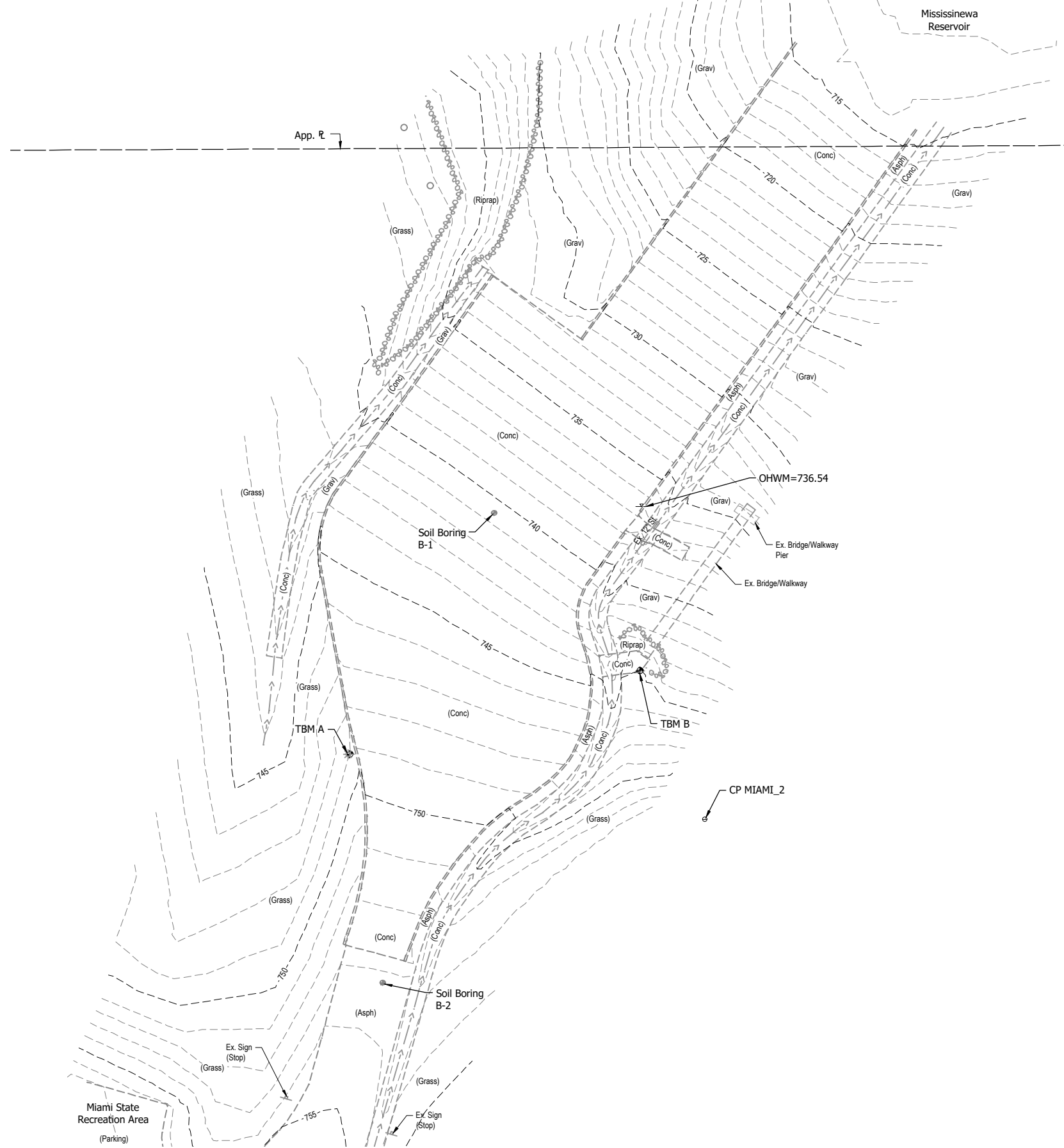
Blake Warner 08/11/23
SIGNATURE DATE

INDIANA DEPT. OF NATURAL RESOURCES
MIAMI BOAT RAMP REPLACEMENT
MISSISSINewa RESERVOIR

LEGEND AND GENERAL NOTES

REVISIONS	HORIZONTAL SCALE	PROJECT NUMBER
	VERTICAL SCALE	202217.00
DRAWN: JAJ	SURVEY BOOK	SHEETS
CHECKED: BRW	DATE	2 OF 9
	AUGUST 2023	

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SURVEY NOTES:

- Unless noted otherwise, all bearings, distances, areas, and coordinates shown hereon are based upon the Indiana State Plane Coordinate System (InSPC) East Zone (1301) per NAD 83 (2011) Epoch 2010.00 and are reported in U.S. Survey Feet and decimal parts thereof.
 - Unless noted otherwise, all elevations shown hereon are based upon the North American Vertical Datum of 1988 (NAVD 88) as established on National Geodetic Survey (NGS) marker Y 172 (PID LA1631) elevation; 783.76 (NAVD 88).
 - According to the National Geodetic Survey (NGS) Coordinate Conversion and Transformation Tool (NCAT), the difference between the vertical datums NAVD 88 and NGVD 29 is - 0.41 feet at the location of this project site.
 - U.S. Army Corps of Engineers (USACE) reports the normal pool elevations as follows: summer pool elevation is 737 (NGVD29) and winter pool elevation is 712 (NGVD29). The normal pool elevations equate to this project datum as follows: summer pool elevation is 736.6 (NAVD 88) and winter pool elevation is 711.6 (NAVD 88).
 - The project is located in Section 15, T26N R5E (Butler Twp.), Miami County, State of Indiana.
 - Horizontal Control Points (CP) Miami 1 and Miami 2 were established by the simple mean average of a minimum of three separate Global Navigation Satellite System (GNSS) observations averaging 316 epochs each. The GNSS observation class was Real Time Kinematic (RTK) and utilized the Trimble Virtual Reference Station Now Network (TVN) as the correction source.
 - Temporary benchmark elevations for TBM A and B were established by trigonometric leveling with a Trimble S6 total station. The elevation for TBM A and B were based upon the GNSS established elevation of CP MIAMI_2.
- Equipment Used:
- Trimble R10 GNSS Receiver (3mm // 8mm+1ppm RMS)
 - Trimble S6 Robotic Total Station (3" 2mm+2ppm)
 - Trimble SX10 Robotic Scanning Total Station (1" 2mm+1.5ppm)
- No underground utilities were marked or surveyed.
 - The topographic survey was completed on January 12, 2023.

VERTICAL CONTROL (NAVD 88)						
ID	Elevation	Remarks	Northing	Easting	Latitude	Longitude
TBM A	750.74	Cotton Gin Gear; E Face Lt. P. (87403); 1.3' Above Grnd. Level	1987657.9	248338.8	N40°42'18.01"	W85°57'15.45"
TBM B	745.21	1 3/8" Cut Cir.; S Cor. Conc. Pier Landing; Flush w/ Grnd. Level	1987685.2	248433.2	N40°42'18.28"	W85°57'14.23"

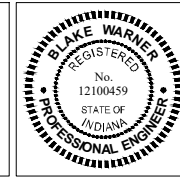
Control point elevations are provided for reference. It should be understood that the markers used are subject to vertical movement due to frost heave, vehicle movements and other environmental factors. All horizontal control point elevations are superseded by bench mark elevations.

HORIZONTAL CONTROL (INSPC - EAST ZONE // U.S. FEET)						
ID	Northing	Easting	Latitude	Longitude	Elevation	Marker
MIAMI_1	1987216.1540	247919.8800	N40°42'13.63193"	W85°57'20.87155"	766.78	1/2" x 18" Rebar w/ Cap Stamped 'LAWSON-FISHER'
MIAMI_2	1987636.6767	248454.2189	N40°42'17.80458"	W85°57'13.95143"	753.37	1/2" x 18" Rebar w/ Cap Stamped 'LAWSON-FISHER'

Control point elevations are provided for reference. It should be understood that the markers used are subject to vertical movement due to frost heave, vehicle movements and other environmental factors. All horizontal control point elevations are superseded by bench mark elevations.



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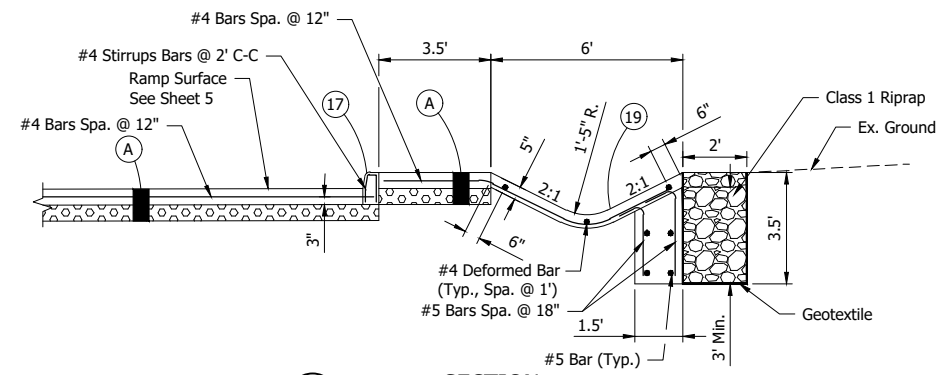
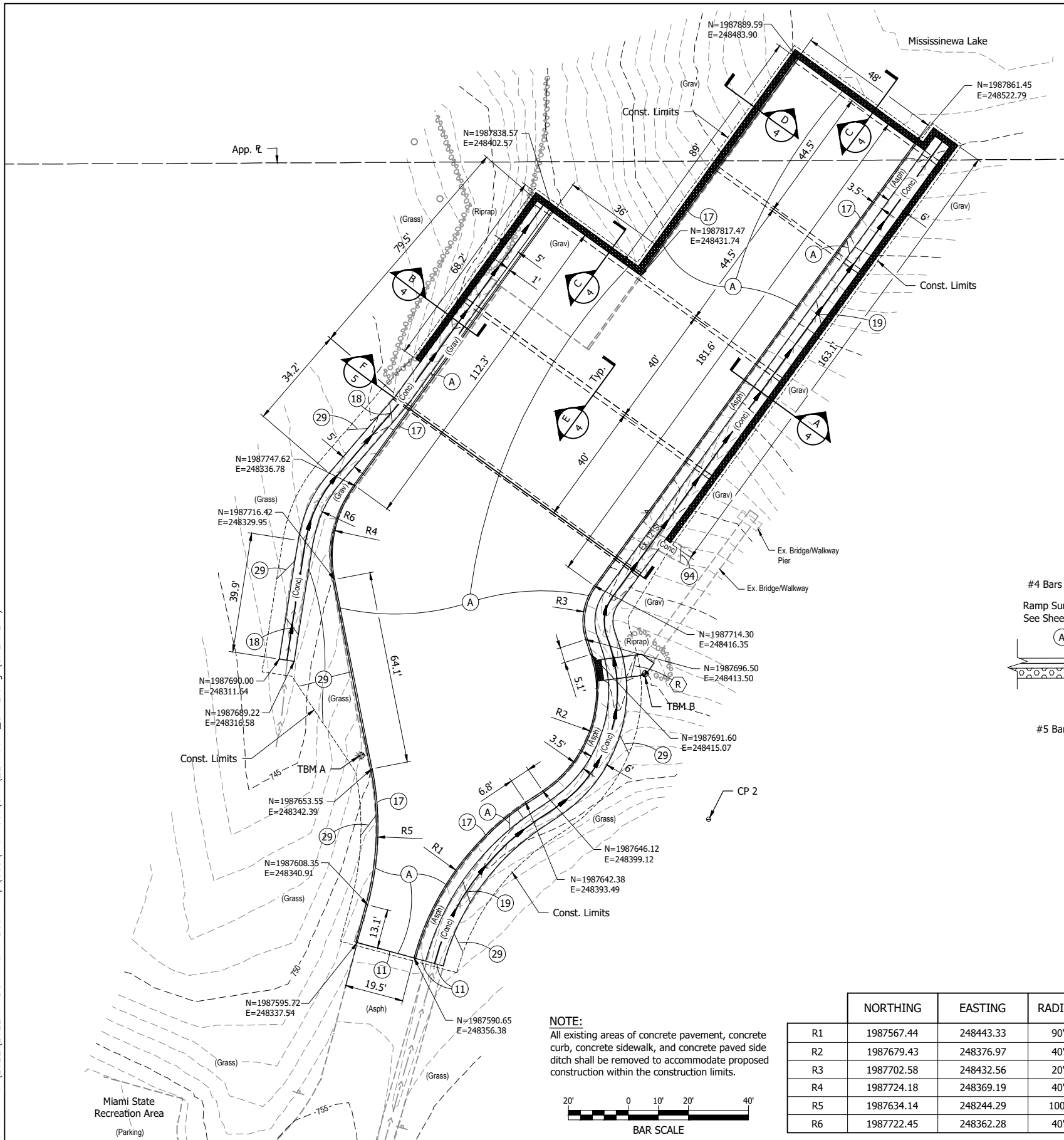
Blake Warner 08/11/23
SIGNATURE DATE

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MIAMI BOAT RAMP REPLACEMENT
MISSISSINEWA RESERVOIR

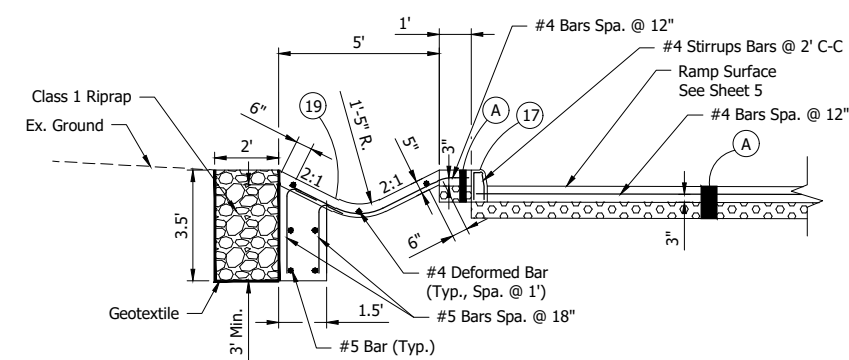
EXISTING CONDITIONS PLAN
AND SURVEY CONTROL

REVISIONS	HORIZONTAL SCALE 1" = 20' VERTICAL SCALE	PROJECT NUMBER 202217.00
DRAWN: JAJ	SURVEY BOOK	SHEETS
CHECKED: BRW	DATE AUGUST 2023	3 OF 9

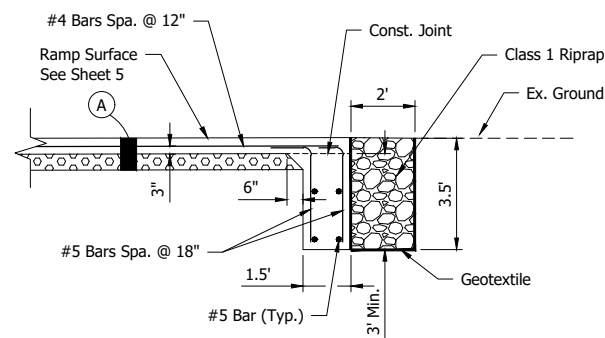
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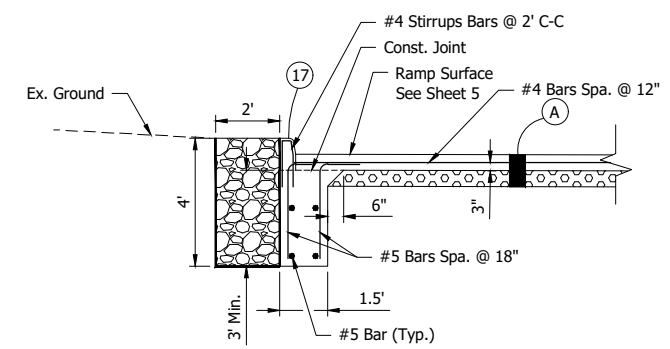
SECTION A
Scale: 1" = 3'



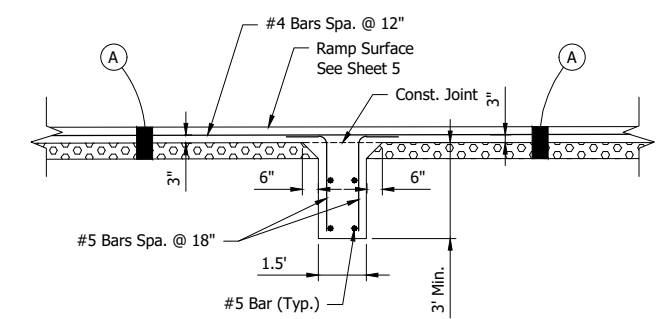
SECTION B
Scale: 1" = 3'



SECTION C
Scale: 1" = 3'



SECTION D
Scale: 1" = 3'



SECTION E
Scale: 1" = 3'

LEGEND:

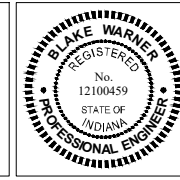
- (A) PCCP, 6" on 6" Compacted Aggregate No. 11
- (11) Sawcut
- (17) Concrete Curb, Integral
- (18) Modified Paved Side Ditch, C
- (19) Modified Paved Side Ditch, D
- (29) Mulched Seeding, Type R
- (R) Concrete Curb Ramp
- (Pattern) Detectable Warning Surface

NOTE:
All existing areas of concrete pavement, concrete curb, concrete sidewalk, and concrete paved side ditch shall be removed to accommodate proposed construction within the construction limits.



	NORTHING	EASTING	RADIUS
R1	1987567.44	248443.33	90'
R2	1987679.43	248376.97	40'
R3	1987702.58	248432.56	20'
R4	1987724.18	248369.19	40'
R5	1987634.14	248244.29	100'
R6	1987722.45	248362.28	40'

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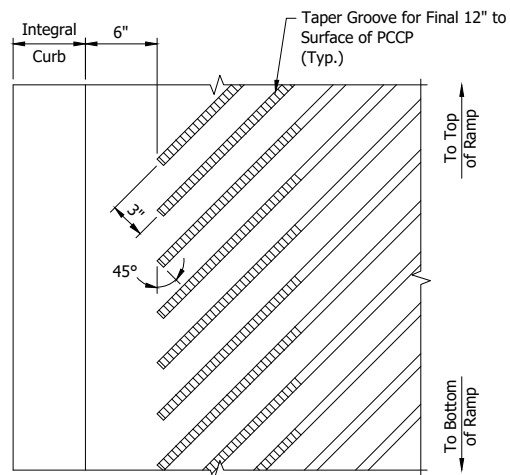
Blake Warner 08/11/23
SIGNATURE DATE

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SITE PLAN

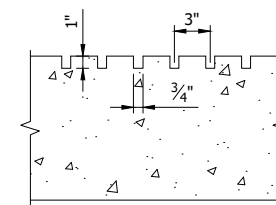
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DRAWN: JAJ	VERTICAL SCALE	SHEETS 4 OF 9
CHECKED: BRW	SURVEY BOOK	
	DATE AUGUST 2023	

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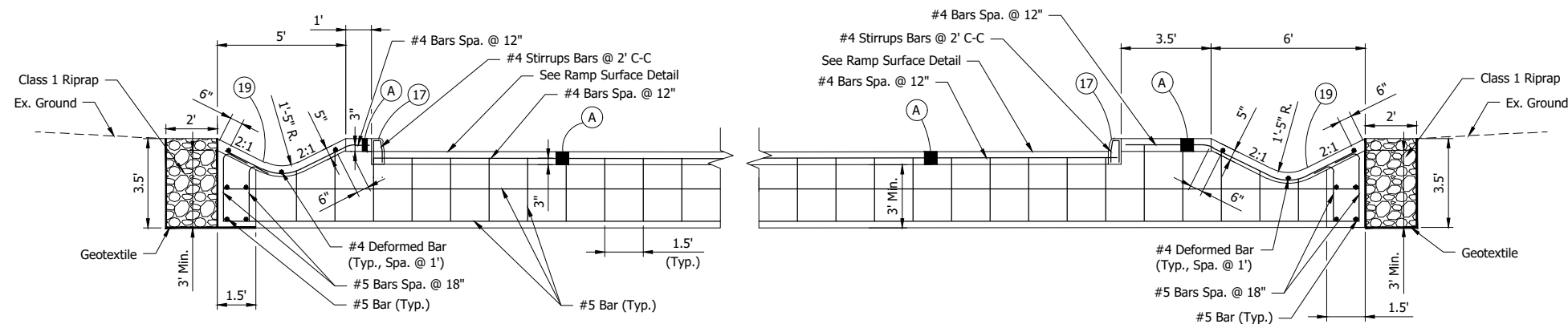
RAMP GROOVE PLAN

Scale: 1 1/2" = 1'-0"



RAMP GROOVE DETAIL

Scale: 1 1/2" = 1'-0"



SECTION
Scale: 1" = 3'

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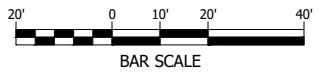
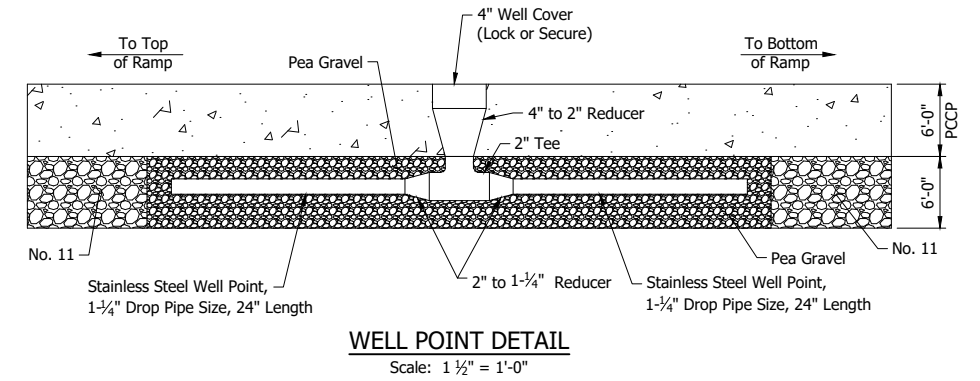
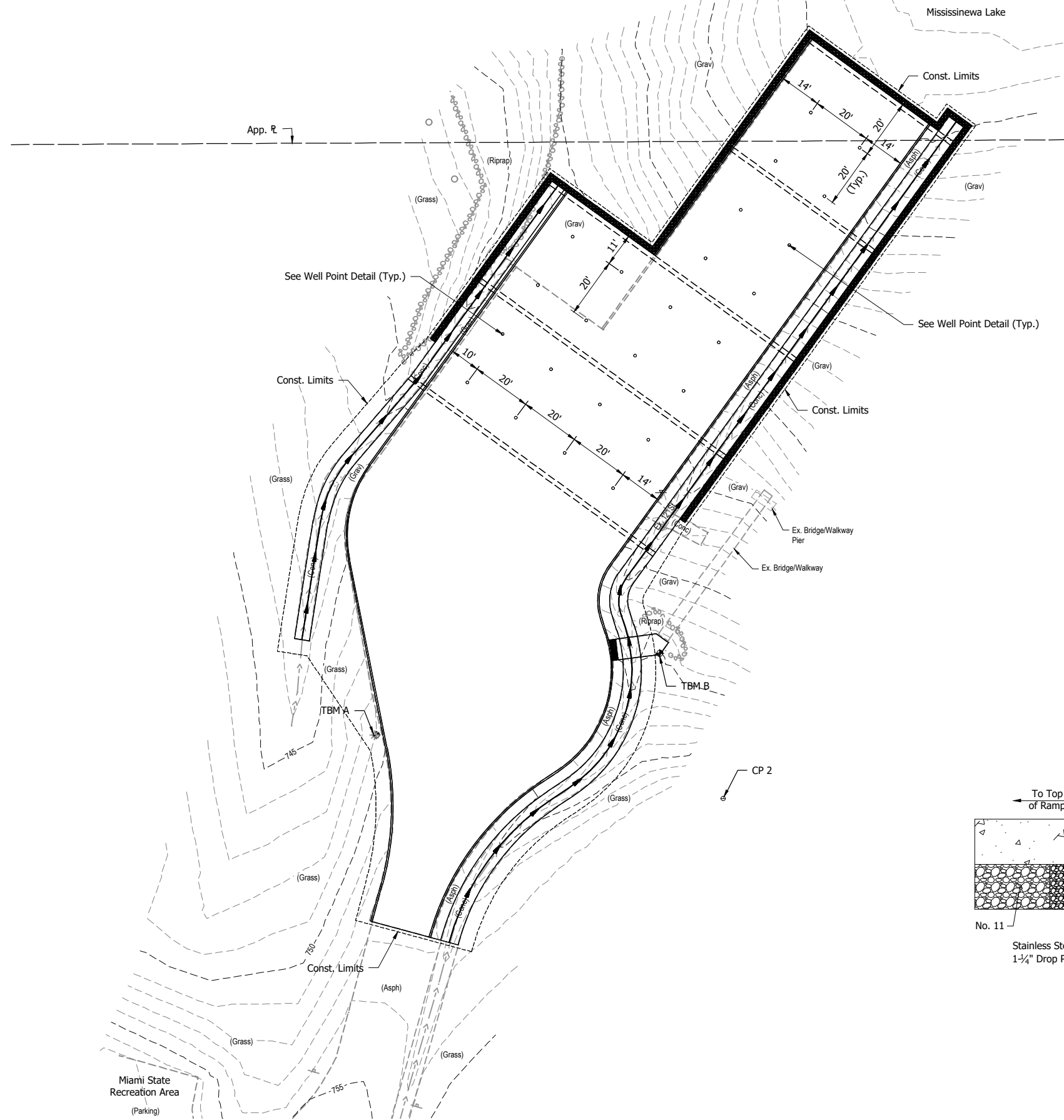
BLAKE WARNER
REGISTERED
No. 12100459
STATE OF INDIANA
PROFESSIONAL ENGINEER

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SIGNATURE DATE

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CONSTRUCTION DETAILS

REVISIONS	HORIZONTAL SCALE AS NOTED	PROJECT NUMBER 202217.00
	VERTICAL SCALE	
DRAWN: GDH	SURVEY BOOK	SHEETS
CHECKED: BRW	DATE AUGUST 2023	5 OF 9

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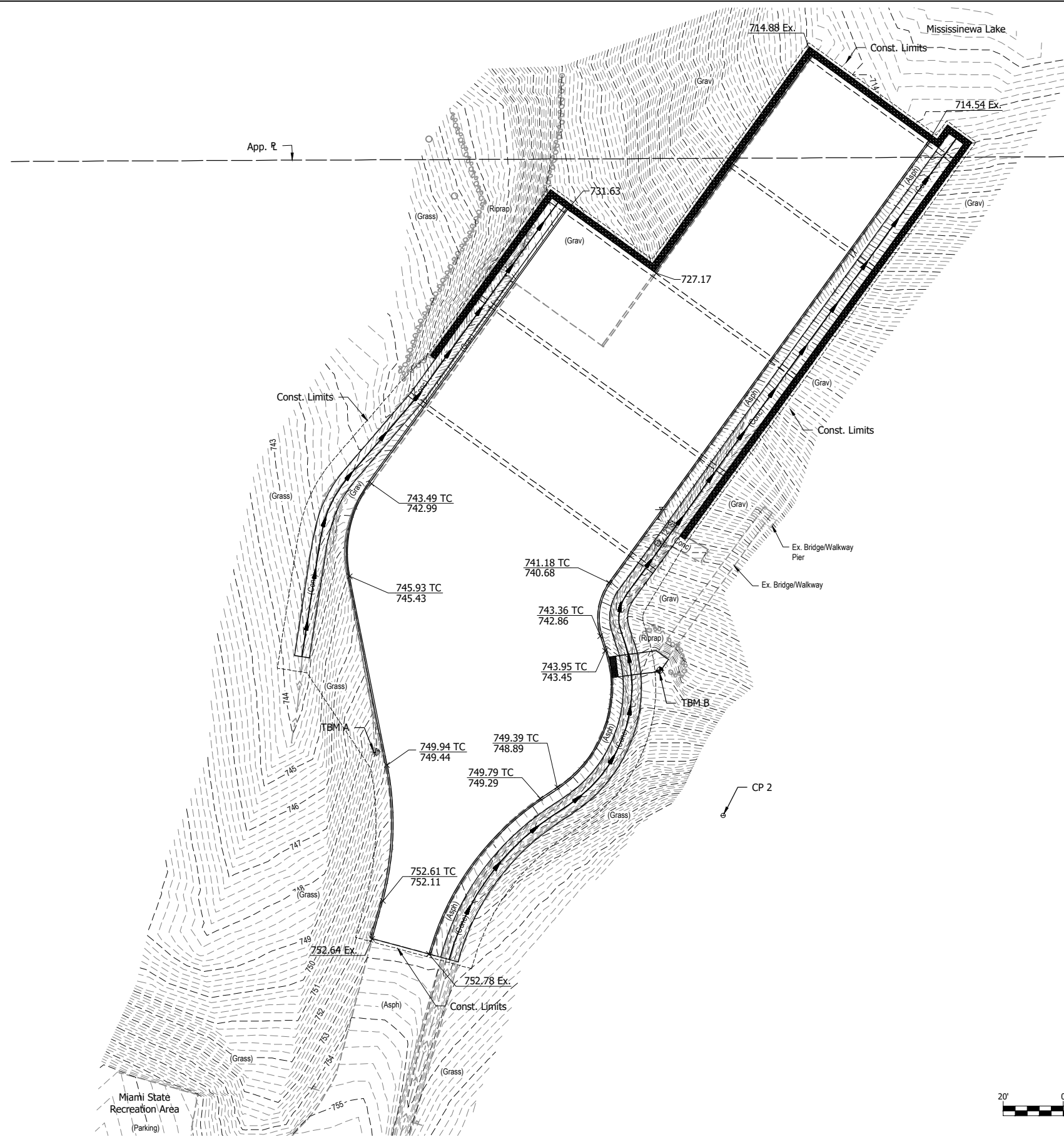
SIGNATURE	DATE

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WELL POINT PLAN

REVISIONS	HORIZONTAL SCALE 1" = 20'	PROJECT NUMBER 202217.00
DRAWN: JAJ	VERTICAL SCALE	SURVEY BOOK
CHECKED: BRW	DATE AUGUST 2023	SHEETS 6 OF 9

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- LEGEND:**
- 700 — Proposed Contour
 - - 700 - - Existing Contour
 - x 700 TC Proposed Spot Elevation at Top of Curb
 - x 700 Proposed Spot Elevation
 - x 700 Ex. Existing Spot Elevation

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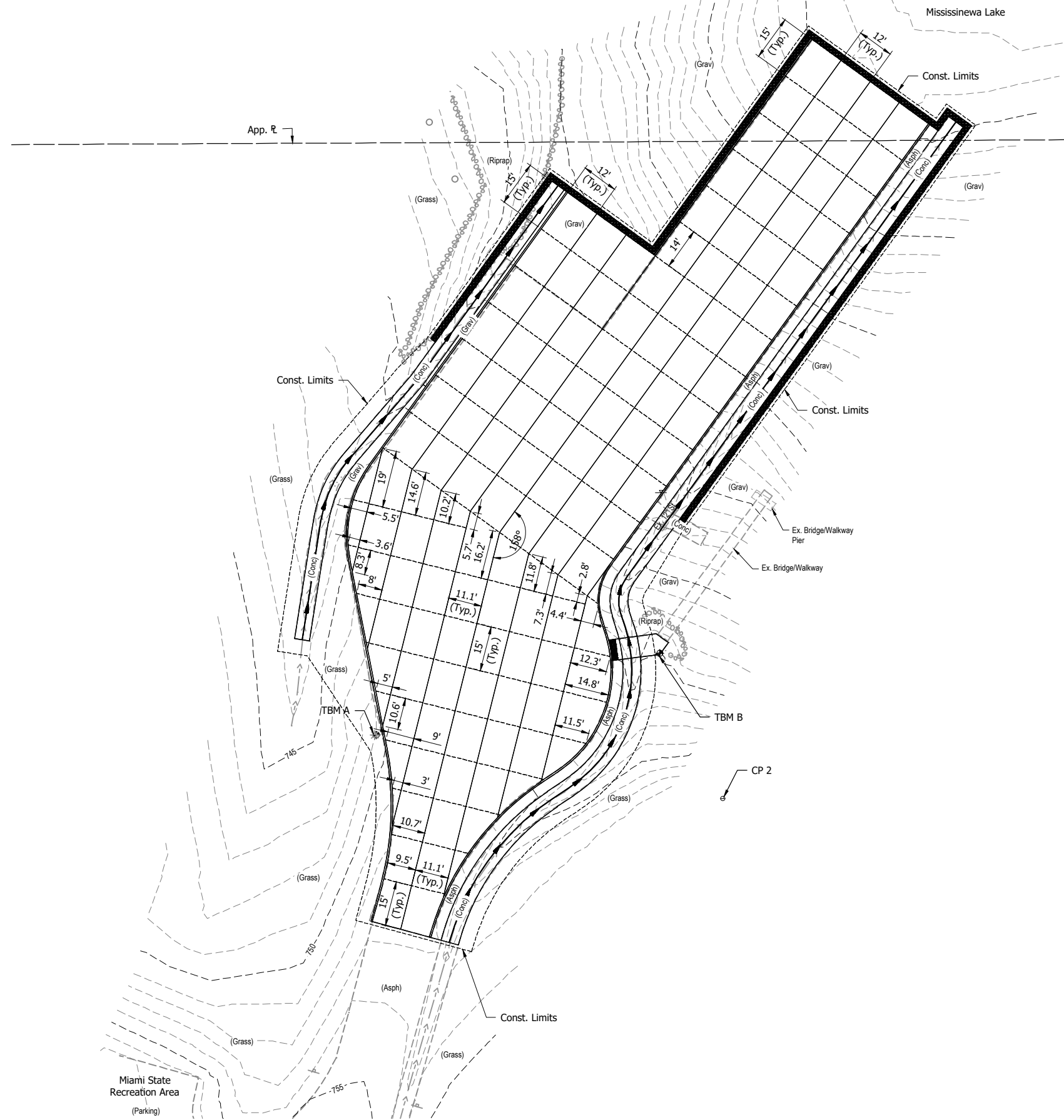
SIGNATURE _____ DATE _____

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GRADING PLAN

REVISIONS	HORIZONTAL SCALE 1" = 20'	PROJECT NUMBER 202217.00
DRAWN: JAJ	SURVEY BOOK	SHEETS
CHECKED: BRW	DATE AUGUST 2023	7 OF 9

BRW - 9/12/2023 4:04 PM - U:\2022\202217 IDOA Miami Boat Ramp\Code\Plan Set\Civil\221700TR_PL01.dwg (JOINT LAYOUT PLAN)



- LEGEND:**
- D-1 Contraction Joint
 - Longitudinal Joint

NOTE:
 Joints shall be in accordance with INDOT Standard Drawings E 503-CCPJ-01 thru E 503-CCPJ-05, except that backer rods shall not be used.



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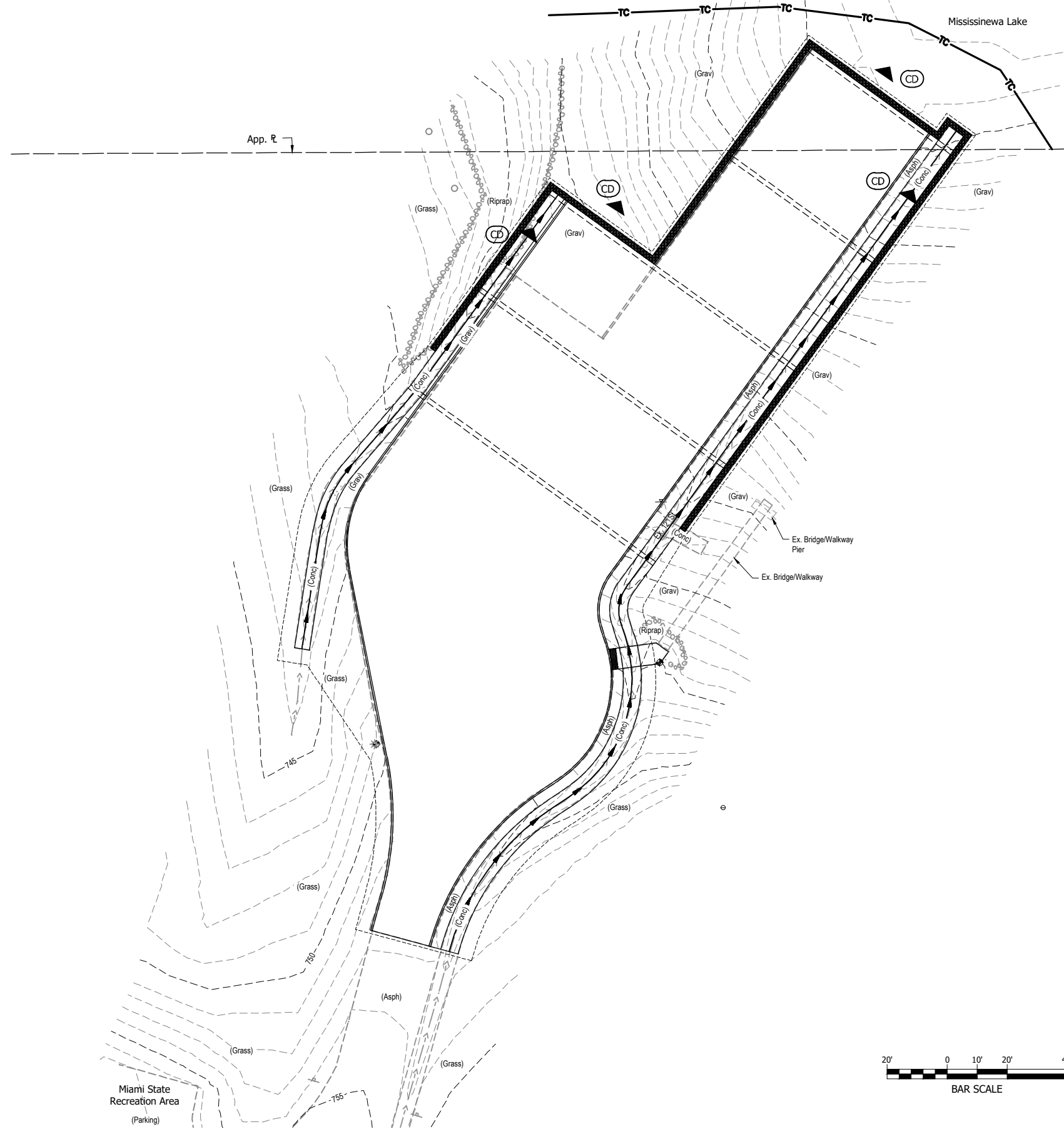
SIGNATURE	DATE

INDIANA DEPT. OF NATURAL RESOURCES
 MIAMI BOAT RAMP REPLACEMENT
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JOINT LAYOUT PLAN

REVISIONS	HORIZONTAL SCALE 1" = 20'	PROJECT NUMBER 202217.00
DRAWN: JAJ	VERTICAL SCALE	SURVEY BOOK
CHECKED: BRW	DATE AUGUST 2023	SHEETS 8 OF 9

BRW - 9/12/2023 4:04 PM - U:\2022\202217 IDOA Miami Boat Ramp\Plan Set\Civil\221700TR_EC01.dwg (5 221700TR_EC01 - EROSION CONTROL)



NOTES:

1. All erosion and sediment control devices are to be checked, maintained, and replaced when needed throughout the entire construction process.
2. The Contractor shall provide a stable construction entrance at the points where construction traffic will drive onto an existing roadway and at concrete washout pit/structures. These entrances will serve the purpose of preventing soil and concrete from leaving the construction area. The final location of the construction entrances/exists shall be determined by the Contractor.
3. Temporary perimeter silt fences or filter socks shall be placed throughout the project to serve as an erosion and sediment control protection measure for any runoff associated with sheet flow that has the potential of leaving the project site or entering the Waters of the U.S.
4. Turbidity Curtain should be used depending on water surface level at the time of construction.
5. The contractor shall provide a Spill Prevention Plan to the owner for approval prior to construction.

LEGEND:

- Temporary Check Dam
- Turbidity Curtain



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SIGNATURE DATE

INDIANA DEPT. OF NATURAL RESOURCES
MIAMI BOAT RAMP REPLACEMENT
MISSISSINWEA RESERVOIR
EROSION CONTROL PLAN

REVISIONS	HORIZONTAL SCALE 1" = 20'	PROJECT NUMBER 202217.00
DRAWN: JAJ	SURVEY BOOK	SHEETS
CHECKED: BRW	DATE AUGUST 2023	9 OF 9