Tinkers Creek MP 185.6 Pre-Bid Sign-in Sheet

Ohio Turnpike and Infrastructure Commission

April 28, 2023

	Name (Printed)	Signature	Company	Email
1	Tom Less		Woolpert	Tom.Less@Woolpert.com
2	Mike Avellano		"	MIKE.AVELLANO@WOOLPERT.COM
3	Ron Quesenberry		TIS	ron.quesenberry@TISllc.com
4	David Bame		TIS	david.bame@tisllc.com
5	Daniel Rodriguez		OTIC	daniel.rodriguez@ohioturnpike.org
6	Kevin Kalal		OTIC	kevin.kalal@ohioturnpike.org
7	Ed Walsh		OTIC	Edward.Walsh@ohioturnpike.org
8	Jeff Engelhart		Beaver	jeffengelhart@Beaverexcavating.com
9	Ryan Pepper		Beaver	ryan.pepper@beaverexcavating.com
10	James Buck		Beaver	James.Buck@beaverexcavating.com
11	Ted Wellman		kokosing	ted.wellman@kokosing.biz
12	PAUL INCORVATI		GREAT LAKES	pincorvati@greatlakesway.com
13	MARK GRODINA		Great Lakes Construction	mgrodina@greatlakesway.com
14	Steve Owens		Ruhlin	SOwens@Ruhlin.com
15	GINGER COX		OTIC	ginger.cox@ohioturnpike.org
16	CHRIS MATTA		OTIC	chris.matta@ohioturnpike.org
17				

WOOLPERT
ARCHITECTURE | ENGINEERING | GEOSPATIAL

Pre-Bid Conference
Meeting Agenda
Bridge Replacement Ohio Turnpike over Tinkers Creek M.P. 185.6 Summit and Portage Counties, Ohio
Project No. 43-23-04
The OTIC Administration Building in Berea, Ohio | 682 Prospect Street, Berea
Friday, April 28, 2023, 11:00 A.M.

Attendees: See Sign-In Sheet

Agenda:

1. **INTRODUCTIONS & PROJECT DESCRIPTION**
   A. Introductions. All attendees shall sign the attendance sheet.
   B. Any questions about the plans and specifications should be directed to OTIC Procurement at purchasing@ohioturnpike.org.
   C. Project Overview
      I. Removing and replacing an Ohio Turnpike mainline bridge over Tinkers Creek.
   D. Work Items of Note.
      I. Site Access
         (1) Environmental Boundaries
            (a) NWP and Wetland Considerations
            (b) Turtle Migration Fence
         (2) Temp Bridge above OHWM
         (3) Mats
      II. DMM

2. **BID OPENING DATE AND TIME**
   A. Bid proposals will be opened and publicly read at the time indicated in the call for Bids unless the Bid opening has been delayed or canceled. Bidders, their authorized agents, and other interested parties are invited to be present.
   B. Date: Thursday, May 18, 2023 at 2:00 P.M. (Local Time)
   C. Delivered to: Bid Express
   D. Questions: Bidders should submit all questions no later than seven (7) days prior to Bid Opening.

3. **DBE GOALS**
   A. 15.0% of Contract Amount.

4. **QUALIFICATION OF BIDDERS**

5. **CRITICAL CONTRACT DATES**

6. **BONDING**

7. **INSURANCE REQUIREMENTS**

8. **FEDERAL WAGE RATES (DAVIS BACON ACT)**

9. **ENGINEER'S FIELD OFFICE**

10. **CONSTRUCTION SAFETY AND PHASING PLAN (CSPP)**

11. **ENVIRONMENTAL REQUIREMENTS**
    A. Discussion of project specific requirements for environmentally sensitive areas. Discuss protocols for working in and around these sensitive areas. Adherence to these requirements will be strictly enforced. Department of the Army Permit No. LRB-2021-01265, NWP No. 3.
    B. All changes to haul routes, staging areas, material storage areas, borrow/waste areas, and limits of disturbance will require approval by the Engineer.

12. **LIQUIDATED DAMAGES**

13. **MISCELLANEOUS**

14. **ADDENDUM UPDATE**
    A. Addendum 1 Dated April 13, 2023

15. **QUESTIONS / ANSWERS**

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF REPLACEMENT OF THE BRIDGE ON THE OHIO TURNPIKE OVER TINKERS CREEK. THE BRIDGE WILL BE SHORTENED FROM 988 FEET TO 652.5 FEET AND REPLACED BY FULL DEPTH PAVEMENT AND GRADING.

BMP TYPE	LATITUDE/LONGITUDE				BMP WIDTH	EDA TREATMENT CREDIT
	BEGIN		END		(FEET)	(ACRES)
LEVEL SPREADER TO EXISTING WETLAND	41.254170	81.392888	41.254283	81.392858	40.00	0.70
				TREATMENT PROVIDED		0.70
				TREATMENT REQUIRED		0.33

PROJECT DATA	
TOTAL AREA (RIGHT OF WAY) .....8.73 ACRES	RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE.....0.58
PROJECT EARTH DISTURBED AREA..... 1.65 ACRES	RUNOFF COEFFICIENT FOR POST CONSTRUCTION SITE..0.58
ESTIMATED CONTRACTOR EARTH DISTURBED AREA .....1.00 ACRES	POST CONSTRUCTION BMP: LEVEL SPREADER IS PROVIDED TO CREATE SHEET FLOW TO MEANDER THROUGH EXISTING WETLAND AREA FOR QUALITY TREATMENT
NOTICE OF INTENT EARTH DISTURBED AREA ..... 4.90 ACRES	
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE ..... 4.09 ACRES	IMMEDIATE RECEIVING WATERS..... TINKERS CREEK
IMPERVIOUS (PAVED) AREA OF POST CONSTRUCTION SITE ..... 4.09 ACRES	SUBSEQUENT RECEIVING WATER..... CUYAHOGA RIVER

USGS MAP: TWINSBURG QUADRANGLE
TWINSBURG, OHIO
LONGITUDE: 81° 23' 42" *
LATITUDE: 41° 15' 15" *

*LONGITUDE AND LATITUDE TO APPROXIMATE CENTER OF PROJECT

NOTES:
1. PLACE PERIMETER FENCE ALONG CONSTRUCTION LIMITS. PAYMENT SHALL BE MADE UNDER ITEM 832. THE ESTIMATED LENGTH (FOR INFORMATION ONLY) IS 3,700-FT.
2. THE FOLLOWING PROVISIONS OF THE ENVIRONMENTAL PERMIT ARE BROUGHT TO THE CONTRACTOR'S ATTENTION:
   A. ACCESS TO THE SITE SHALL TAKE PLACE WITHIN THE CONSTRUCTION LIMITS
   B. ~~TIMBER~~ MATTING IS REQUIRED TO BE PLACED IN THE WETLAND AREAS WHERE WORK WILL OCCUR.
   C. NO ROCK OR STONE CAN BE LAID DOWN IN THE WETLAND AREAS FOR CONSTRUCTION EQUIPMENT. IT IS ALLOWED OUTSIDE OF WETLAND AREAS.
   D. NO TEMPORARY ACCESS FILL OR EQUIPMENT IS ALLOWED IN TINKERS CREEK BELOW THE OHWM.
   E. TEMPORARY CROSSINGS OF TINKERS CREEK ARE ALLOWED PROVIDED THERE ARE NO IMPACTS BELOW THE OHWM .
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   H. COMPLY WITH THE AVOIDANCE AND MINIMIZATION PLAN FOR THE SPOTTED TURTLE DATED 4/5/2022. THIS INCLUDES PROVIDING PERIMETER FENCNG AROUND THE PROJECT SITE WHICH CONSISTS OF 24-INCH SILT FENCING BURIED 4-INCH AT IT'S BASE ALONG THE NORTH AND SOUTH EDGES OF THE CONSTRUCTION LIMITS AND CONNECTING TO THE EXISTING ROADWAY TO PREVENT MIGRATION OF TURTLES INTO THE SITE. REPAIR ANY BREACHES OR DAMAGE TO THE FENCE AS SOON AS SUCH CONDITIONS ARE FOUND.
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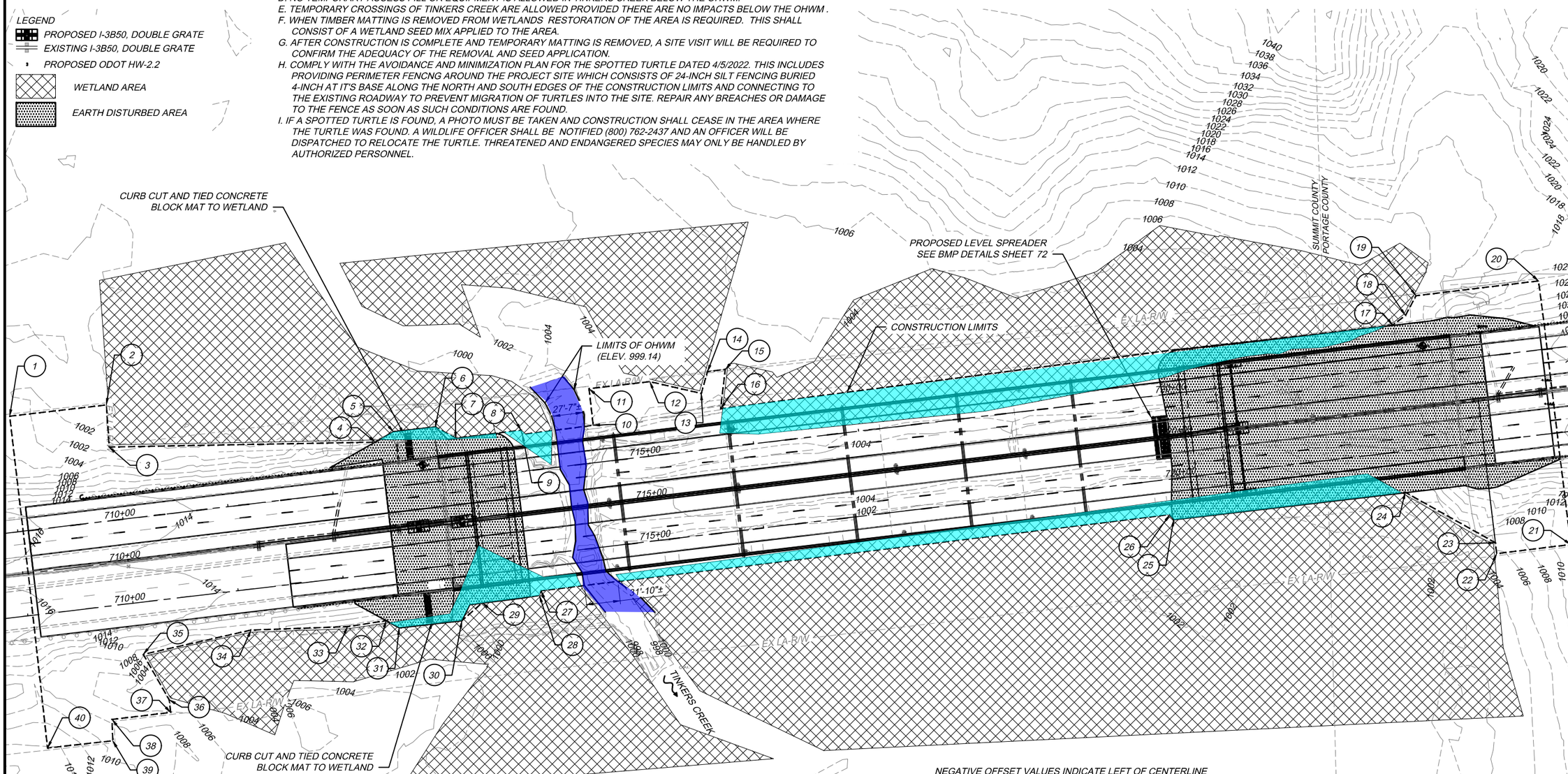
LEGEND
- PROPOSED I-3B50, DOUBLE GRATE
- EXISTING I-3B50, DOUBLE GRATE
- PROPOSED ODOT HW-2.2
- WETLAND AREA
- EARTH DISTURBED AREA



NEGATIVE OFFSET VALUES INDICATE LEFT OF CENTERLINE

CONSTRUCTION LIMITS CONTROL POINTS

POINT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STA.	709+05.00	709+96.50	709+94.50	712+45.25	712+63.58	713+03.33	713+21.31	713+82.85	713+84.06	714+51.75	714+51.75	715+09.75	715+56.50	715+65.00	715+81.75	715+73.00	0+73.00	0+86.00	0+98.00	2+15.00
OFFSET	-149.00	-149.00	-109.25	-84.00	-91.64	-91.50	-78.69	-78.75	-74.60	-75.28	-110.00	-110.00	-93.00	-112.75	-112.75	-76.50	-79.62	-87.00	-104.50	-104.50
POINT	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STA.	2+15.00	1+45.00	1+45.00	0+66.00	719+85.75	719+82.50	713+84.27	713+82.17	713+27.69	713+06.54	712+46.98	712+35.50	711+98.50	711+07.75	710+04.00	710+23.00	710+04.00	709+67.25	709+65.50	709+05.00
OFFSET	146.50	146.50	136.00	78.63	78.10	73.17	74.00	78.30	78.71	93.18	92.92	84.69	86.00	78.50	89.00	134.50	146.50	146.50	166.00	166.00

0 100 200 300
GRAPHIC SCALE IN FEET

DESIGN AGENCY
ONE EASTON OVAL
SUITE 400
COLUMBUS, OH 43219
T 614-476-6000
F 614-476-6225
WOOLPERT

NO.	REVISIONS	BY	DATE
-	-	-	-
-	-	-	-
-	-	-	-

CHECKED JDB
IN CHARGE MWZ
DESIGNED AKB
DRAWN AKB

PROJECT SITE PLAN
OHIO TURNPIKE OVER TINKERS CREEK
SUMMIT COUNTY
M.P. 185.6

PROJECT 43-23-04
DATE: 1/17/23

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

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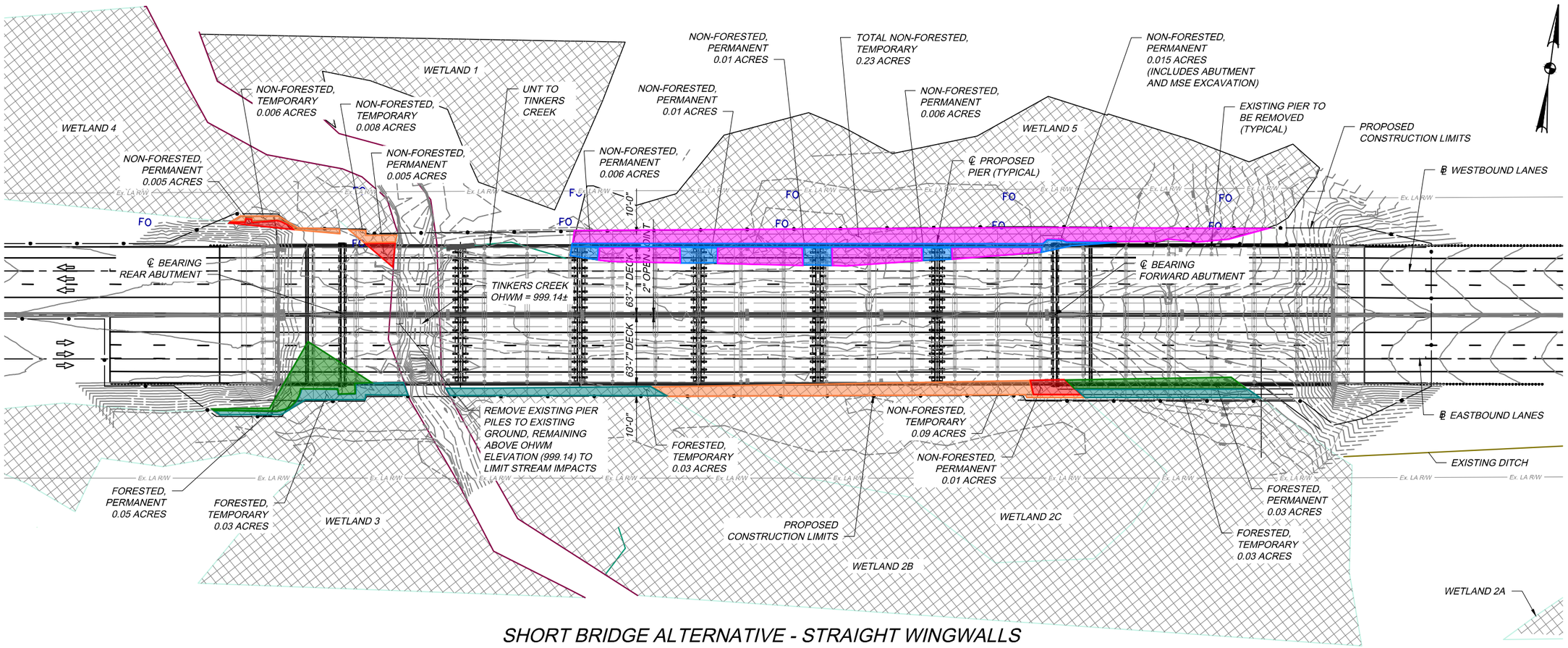

SHORT BRIDGE ALTERNATIVE - STRAIGHT WINGWALLS

WETLAND IMPACTS						
IMPACT		WETLAND 2B	WETLAND 2C	WETLAND 3	WETLAND 4	WETLAND 5
		CATEGORY 3	CATEGORY 3	CATEGORY 3	CATEGORY 3	CATEGORY 1
		FORESTED	NON-FORESTED	FORESTED	NON-FORESTED	NON-FORESTED
PERMANENT IMPACTS						
GENERAL EXCAVATION	AREA (ACRE)	0.02	0.01	0.04	0.01	0.015
	VOLUME (CY)	717	321	1389	33	300
MSE/EMBANKMENT	AREA (ACRE)	0.02	0.01	0.05	0.01	0.015
	VOLUME (CY)	717	641	2129	37	300
PIER EXCAVATION /FOUNDATIONS	AREA (ACRE)	0	0	0	0	0.032
	VOLUME (CY)					180
UNT TO TINKERS CREEK	LENGTH (FT)	25				
	AREA (ACRE)	0.001				
	VOLUME (CY)	0.5				
TEMPORARY IMPACTS						
SHEET PILE	AREA (ACRE)	0.01	0.001	0.005	0	0.001
	VOLUME (CY)	565	57	282		105
TEMP IMPACTS (TIMBER MATTING / CRIBBING)	AREA (ACRE)	0.06	0.09	0.03	0.015	0.23
	VOLUME (CY)	99	141	42	17	372

Note: General excavation area/volumes are within same locations as MSE/embankment and shall not be added to overall totals.

LEGEND:

- CATEGORY 3 FORESTED WETLAND IMPACT, PERMANENT (0.07 ACRES)
- CATEGORY 3 FORESTED WETLAND IMPACT, TEMPORARY (0.09 ACRES)
- CATEGORY 3 NON-FORESTED WETLAND IMPACT, PERMANENT (0.02 ACRES)
- CATEGORY 3 NON-FORESTED WETLAND IMPACT, TEMPORARY (0.10 ACRES)
- CATEGORY 1 NON-FORESTED WETLAND IMPACT, PERMANENT (0.047 ACRES)
- CATEGORY 1 NON-FORESTED WETLAND IMPACT, TEMPORARY (0.23 ACRES)
- DELINEATED WETLANDS
- UNT TO TINKERS CREEK IMPACT (25 LF)
- UNT TO TINKERS CREEK

DESIGN AGENCY
WOOLPERT
ONE EASTON OVAL
SUITE 400
COLUMBUS, OH 43219
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F 614-476-6225

NO.	REVISIONS	BY	DATE
-	-	-	-
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-	-	-	-
-	-	-	-

DESIGNED PES | CHECKED TML | DRAWN JYM | IN CHARGE MAA

WETLAND IMPACTS
OHIO TURNPIKE OVER TINKERS CREEK
SUMMIT COUNTY
M.P. 185.6

PROJECT 71-20-03
DATE: 05/16/22

1 / 3

X / X

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

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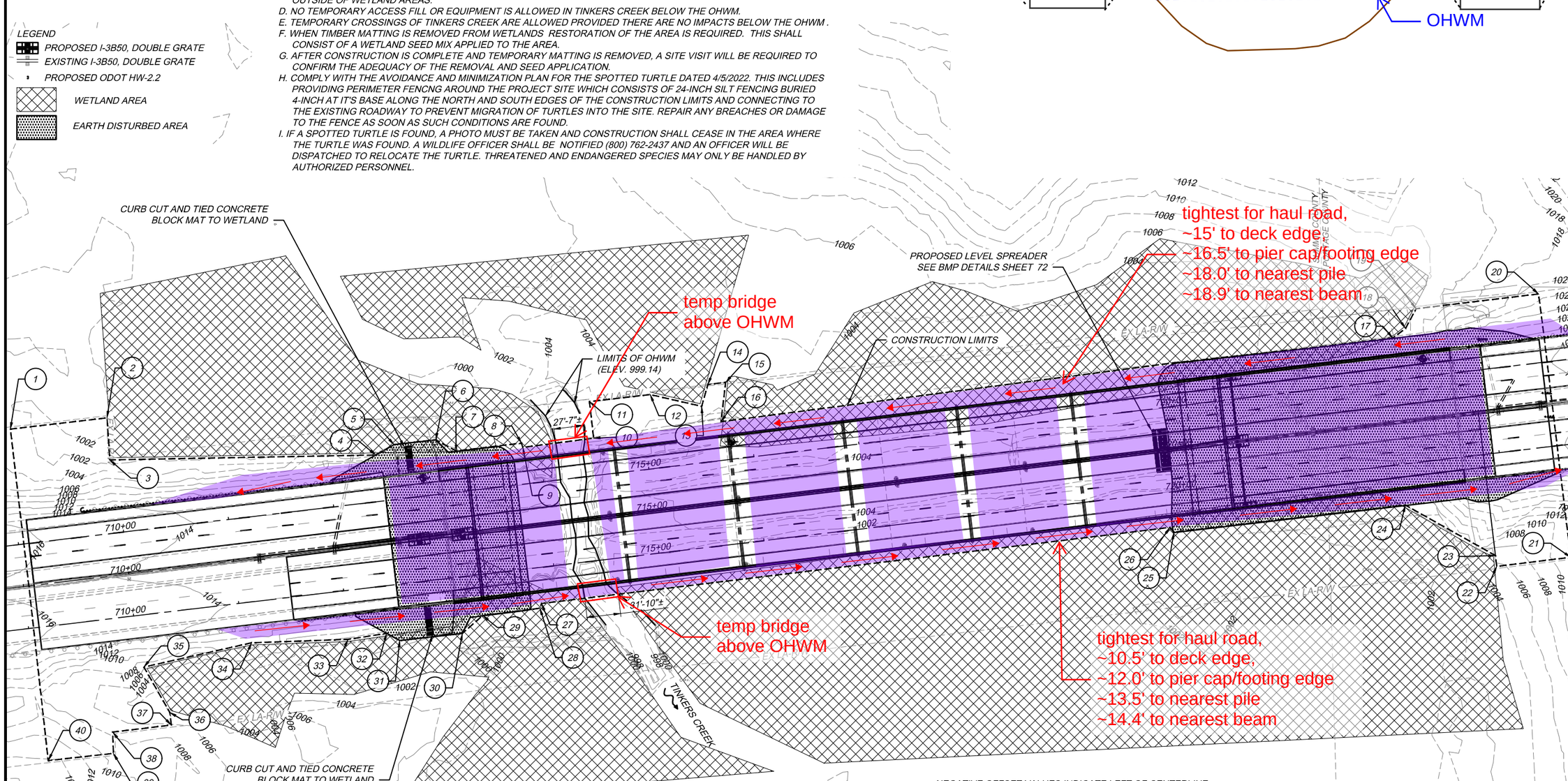

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PROJECT SITE PLAN
OHIO TURNPIKE OVER TINKERS CREEK
SUMMIT COUNTY
M.P. 185.6

PROJECT 43-23-04
DATE: 1/17/23

56
119

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

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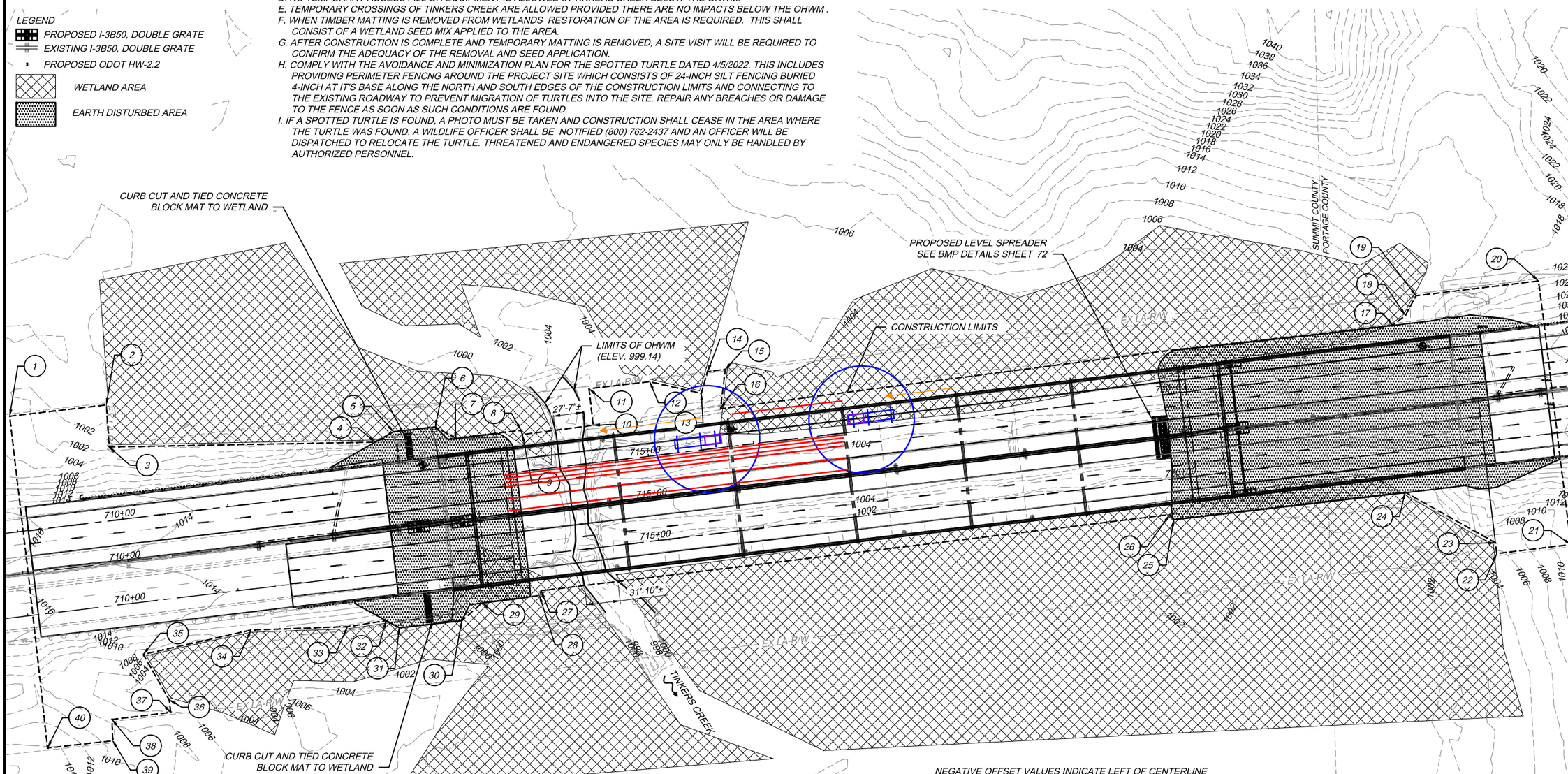

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STA.	2+15.00	1+45.00	1+45.00	0+66.00	719+85.75	719+82.50	713+84.27	713+82.17	713+27.69	713+06.54	712+46.98	712+35.50	711+98.50	711+07.75	710+04.00	710+23.00	710+04.00	709+67.25	709+65.50	709+05.00
OFFSET	146.50	146.50	136.00	78.63	78.10	73.17	74.00	78.30	78.71	93.18	92.92	84.69	86.00	78.50	89.00	134.50	146.50	146.50	166.00	166.00

0 100 200 300
GRAPHIC SCALE IN FEET

DESIGN AGENCY
ONE EASTON OVAL
SUITE 400
COLUMBUS, OH 43219
T 614-476-6000
F 614-476-6225
WOOLPERT

NO.	REVISIONS	BY	DATE
-	-	-	-
-	-	-	-
-	-	-	-

CHECKED JDB
DESIGNED AKB
IN CHARGE MWZ
DRAWN AKB

PROJECT SITE PLAN
OHIO TURNPIKE OVER TINKERS CREEK
SUMMIT COUNTY
M.P. 185.6

PROJECT 43-23-04
DATE: 1/17/23

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

FinalPlansBind_81533_DE001.dwg: 1/24/23 - 6:24pm

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF REPLACEMENT OF THE BRIDGE ON THE OHIO TURNPIKE OVER TINKERS CREEK. THE BRIDGE WILL BE SHORTENED FROM 988 FEET TO 652.5 FEET AND REPLACED BY FULL DEPTH PAVEMENT AND GRADING.

BMP TYPE	LATITUDE/LONGITUDE				BMP WIDTH	EDA TREATMENT CREDIT
	BEGIN		END		(FEET)	(ACRES)
LEVEL SPREADER TO EXISTING WETLAND	41.254170	81.392888	41.254283	81.392858	40.00	0.70
				TREATMENT PROVIDED		0.70
				TREATMENT REQUIRED		0.33

PROJECT DATA	
TOTAL AREA (RIGHT OF WAY) .....8.73 ACRES	RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE.....0.58
PROJECT EARTH DISTURBED AREA..... 1.65 ACRES	RUNOFF COEFFICIENT FOR POST CONSTRUCTION SITE..0.58
ESTIMATED CONTRACTOR EARTH DISTURBED AREA .....1.00 ACRES	POST CONSTRUCTION BMP: LEVEL SPREADER IS PROVIDED TO CREATE SHEET FLOW TO MEANDER THROUGH EXISTING WETLAND AREA FOR QUALITY TREATMENT
NOTICE OF INTENT EARTH DISTURBED AREA ..... 4.90 ACRES	
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE ..... 4.09 ACRES	IMMEDIATE RECEIVING WATERS..... TINKERS CREEK
IMPERVIOUS (PAVED) AREA OF POST CONSTRUCTION SITE ..... 4.09 ACRES	SUBSEQUENT RECEIVING WATER..... CUYAHOGA RIVER

USGS MAP: TWINSBURG QUADRANGLE
TWINSBURG, OHIO
LONGITUDE: 81° 23' 42" *
LATITUDE: 41° 15' 15" *

*LONGITUDE AND LATITUDE TO APPROXIMATE CENTER OF PROJECT

NOTES:
1. PLACE PERIMETER FENCE ALONG CONSTRUCTION LIMITS. PAYMENT SHALL BE MADE UNDER ITEM 832. THE ESTIMATED LENGTH (FOR INFORMATION ONLY) IS 3,700-FT.
2. THE FOLLOWING PROVISIONS OF THE ENVIRONMENTAL PERMIT ARE BROUGHT TO THE CONTRACTOR'S ATTENTION:
   A. ACCESS TO THE SITE SHALL TAKE PLACE WITHIN THE CONSTRUCTION LIMITS
   B. ~~TIMBER~~ MATTING IS REQUIRED TO BE PLACED IN THE WETLAND AREAS WHERE WORK WILL OCCUR.
   C. NO ROCK OR STONE CAN BE LAID DOWN IN THE WETLAND AREAS FOR CONSTRUCTION EQUIPMENT. IT IS ALLOWED OUTSIDE OF WETLAND AREAS.
   D. NO TEMPORARY ACCESS FILL OR EQUIPMENT IS ALLOWED IN TINKERS CREEK BELOW THE OHWM.
   E. TEMPORARY CROSSINGS OF TINKERS CREEK ARE ALLOWED PROVIDED THERE ARE NO IMPACTS BELOW THE OHWM .
   F. WHEN TIMBER MATTING IS REMOVED FROM WETLANDS RESTORATION OF THE AREA IS REQUIRED. THIS SHALL CONSIST OF A WETLAND SEED MIX APPLIED TO THE AREA.
   G. AFTER CONSTRUCTION IS COMPLETE AND TEMPORARY MATTING IS REMOVED, A SITE VISIT WILL BE REQUIRED TO CONFIRM THE ADEQUACY OF THE REMOVAL AND SEED APPLICATION.
   H. COMPLY WITH THE AVOIDANCE AND MINIMIZATION PLAN FOR THE SPOTTED TURTLE DATED 4/5/2022. THIS INCLUDES PROVIDING PERIMETER FENCNG AROUND THE PROJECT SITE WHICH CONSISTS OF 24-INCH SILT FENCING BURIED 4-INCH AT IT'S BASE ALONG THE NORTH AND SOUTH EDGES OF THE CONSTRUCTION LIMITS AND CONNECTING TO THE EXISTING ROADWAY TO PREVENT MIGRATION OF TURTLES INTO THE SITE. REPAIR ANY BREACHES OR DAMAGE TO THE FENCE AS SOON AS SUCH CONDITIONS ARE FOUND.
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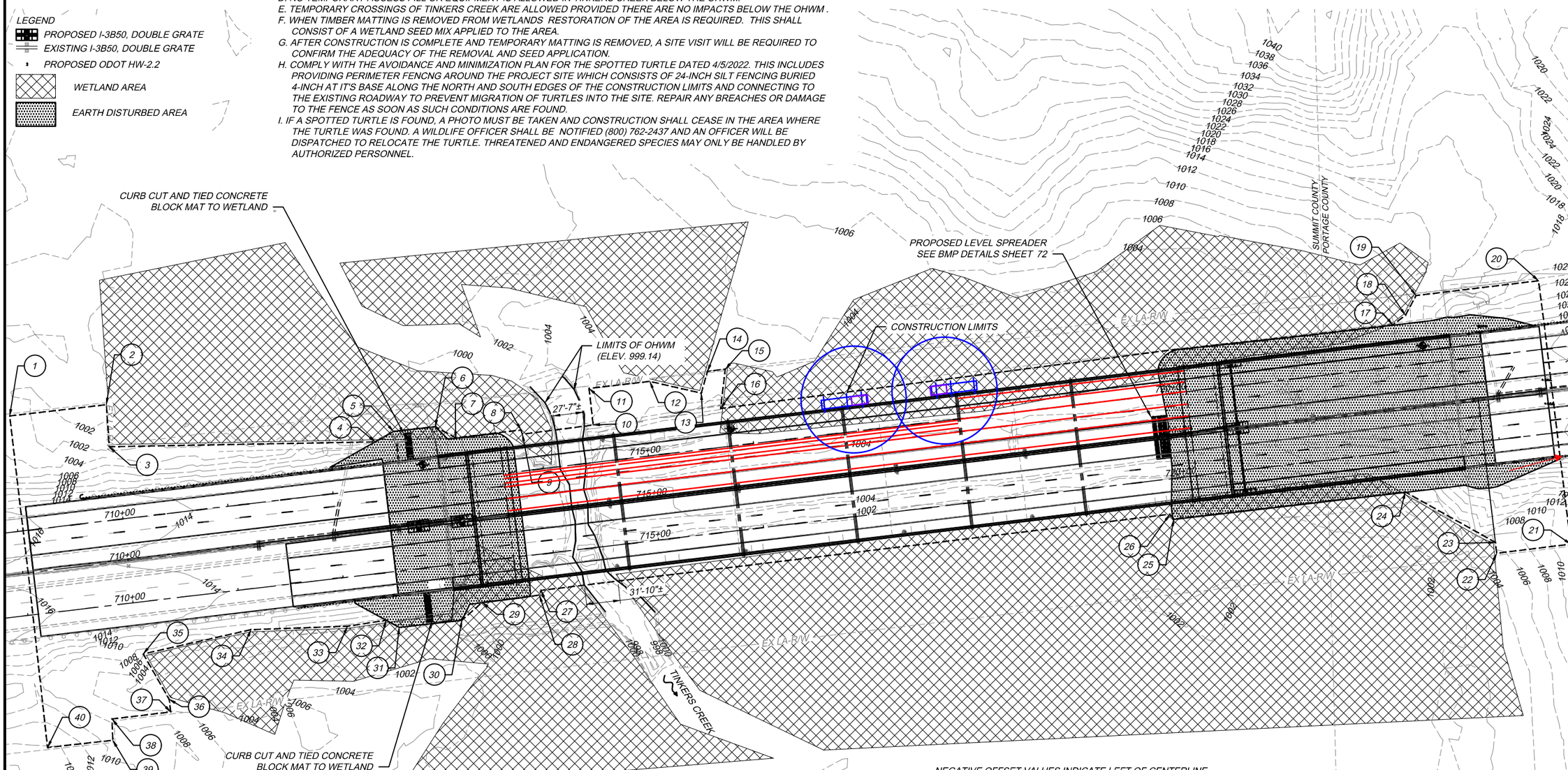
LEGEND
- PROPOSED I-3B50, DOUBLE GRATE
- EXISTING I-3B50, DOUBLE GRATE
- PROPOSED ODOT HW-2.2
- WETLAND AREA
- EARTH DISTURBED AREA



NEGATIVE OFFSET VALUES INDICATE LEFT OF CENTERLINE

CONSTRUCTION LIMITS CONTROL POINTS

POINT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STA.	709+05.00	709+96.50	709+94.50	712+45.25	712+63.58	713+03.33	713+21.31	713+82.85	713+84.06	714+51.75	714+51.75	715+09.75	715+56.50	715+65.00	715+81.75	715+73.00	0+73.00	0+86.00	0+98.00	2+15.00
OFFSET	-149.00	-149.00	-109.25	-84.00	-91.64	-91.50	-78.69	-78.75	-74.60	-75.28	-110.00	-110.00	-93.00	-112.75	-112.75	-76.50	-79.62	-87.00	-104.50	-104.50
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0 100 200 300
GRAPHIC SCALE IN FEET

DESIGN AGENCY
ONE EASTON OVAL
SUITE 400
COLUMBUS, OH 43219
T 614-476-6000
F 614-476-6225
WOOLPERT

NO.	REVISIONS	BY	DATE
-	-	-	-
-	-	-	-
-	-	-	-

CHECKED JDB
IN CHARGE MWZ
DESIGNED AKB
DRAWN AKB

PROJECT SITE PLAN
OHIO TURNPIKE OVER TINKERS CREEK
SUMMIT COUNTY
M.P. 185.6

PROJECT 43-23-04
DATE: 1/17/23

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

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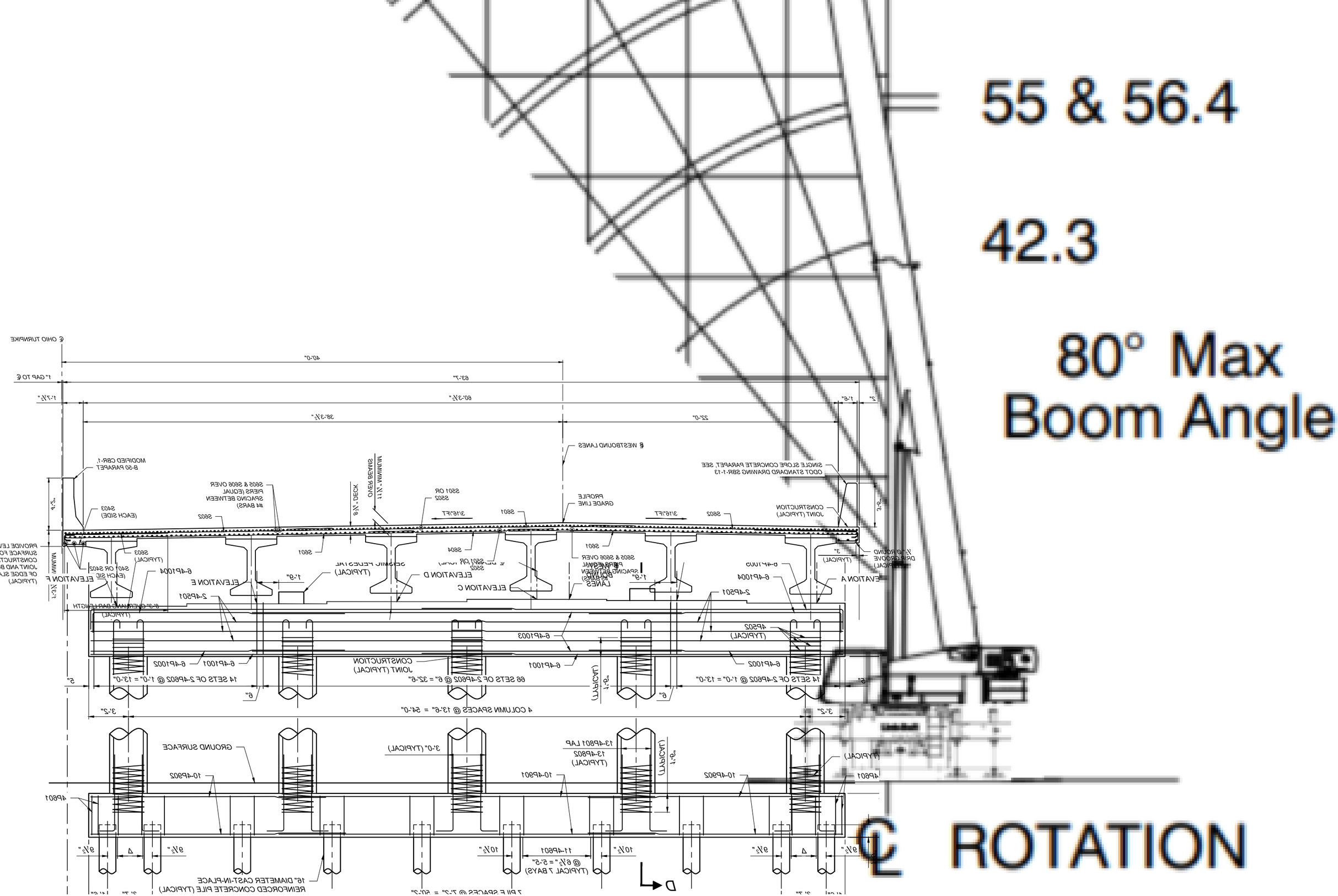
55 & 56.4
42.3
80° Max
Boom Angle
℄ ROTATION

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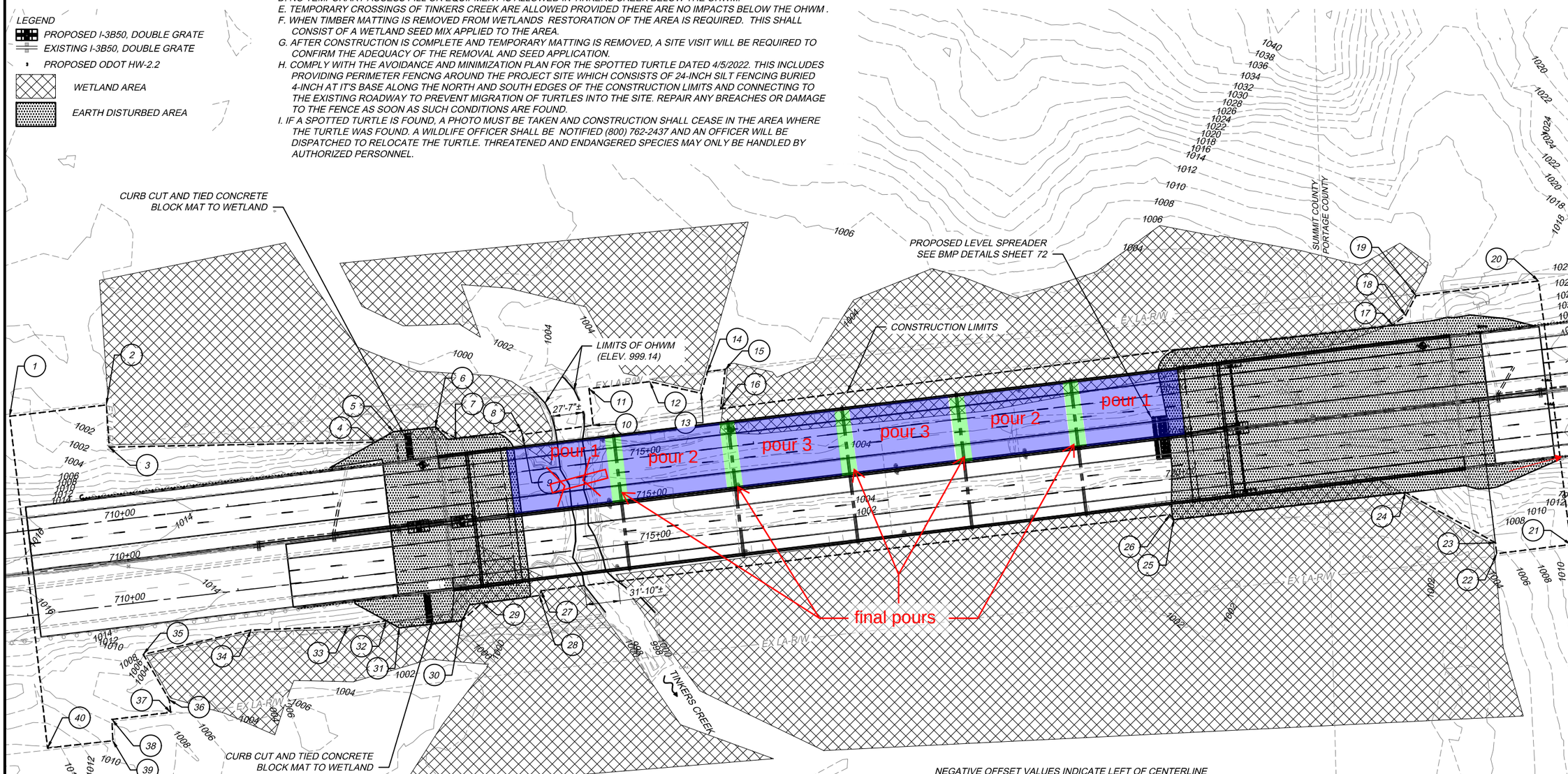
- EARTH DISTURBED AREA



NEGATIVE OFFSET VALUES INDICATE LEFT OF CENTERLINE

CONSTRUCTION LIMITS CONTROL POINTS

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OFFSET	-149.00	-149.00	-109.25	-84.00	-91.64	-91.50	-78.69	-78.75	-74.60	-75.28	-110.00	-110.00	-93.00	-112.75	-112.75	-76.50	-79.62	-87.00	-104.50	-104.50
POINT	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STA.	2+15.00	1+45.00	1+45.00	0+66.00	719+85.75	719+82.50	713+84.27	713+82.17	713+27.69	713+06.54	712+46.98	712+35.50	711+98.50	711+07.75	710+04.00	710+23.00	710+04.00	709+67.25	709+65.50	709+05.00
OFFSET	146.50	146.50	136.00	78.63	78.10	73.17	74.00	78.30	78.71	93.18	92.92	84.69	86.00	78.50	89.00	134.50	146.50	146.50	166.00	166.00

0 100 200 300
GRAPHIC SCALE IN FEET

DESIGN AGENCY
ONE EASTON OVAL
SUITE 400
COLUMBUS, OH 43219
T 614-476-6000
F 614-476-6225
WOOLPERT

NO.	REVISIONS	BY	DATE
-	-	-	-
-	-	-	-
-	-	-	-

DESIGNED	CHECKED
AKB	JDB
DRAWN	IN CHARGE
AKB	MWZ

PROJECT SITE PLAN
OHIO TURNPIKE OVER TINKERS CREEK
SUMMIT COUNTY
M.P. 185.6

PROJECT 43-23-04
DATE: 1/17/23

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

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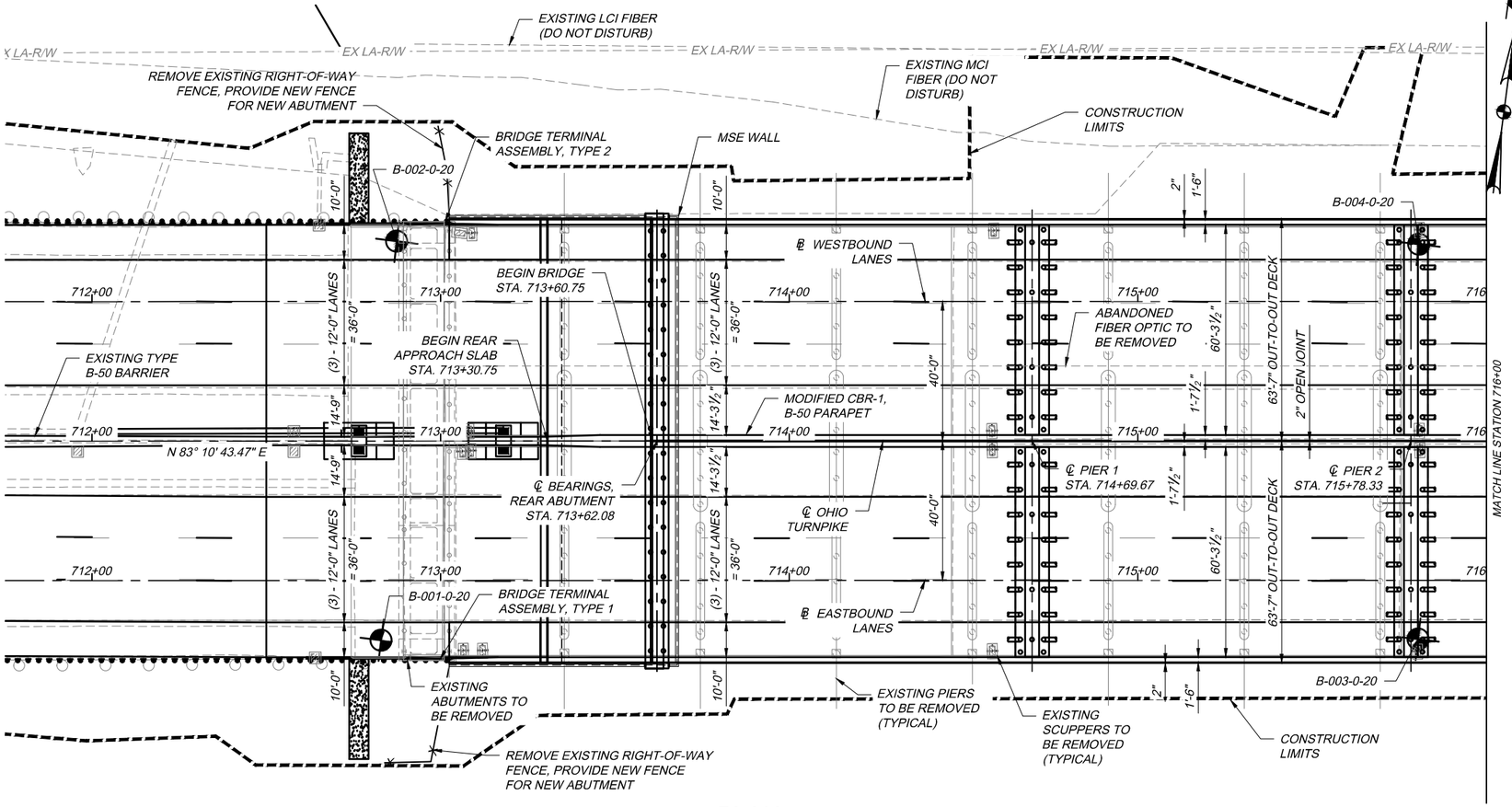
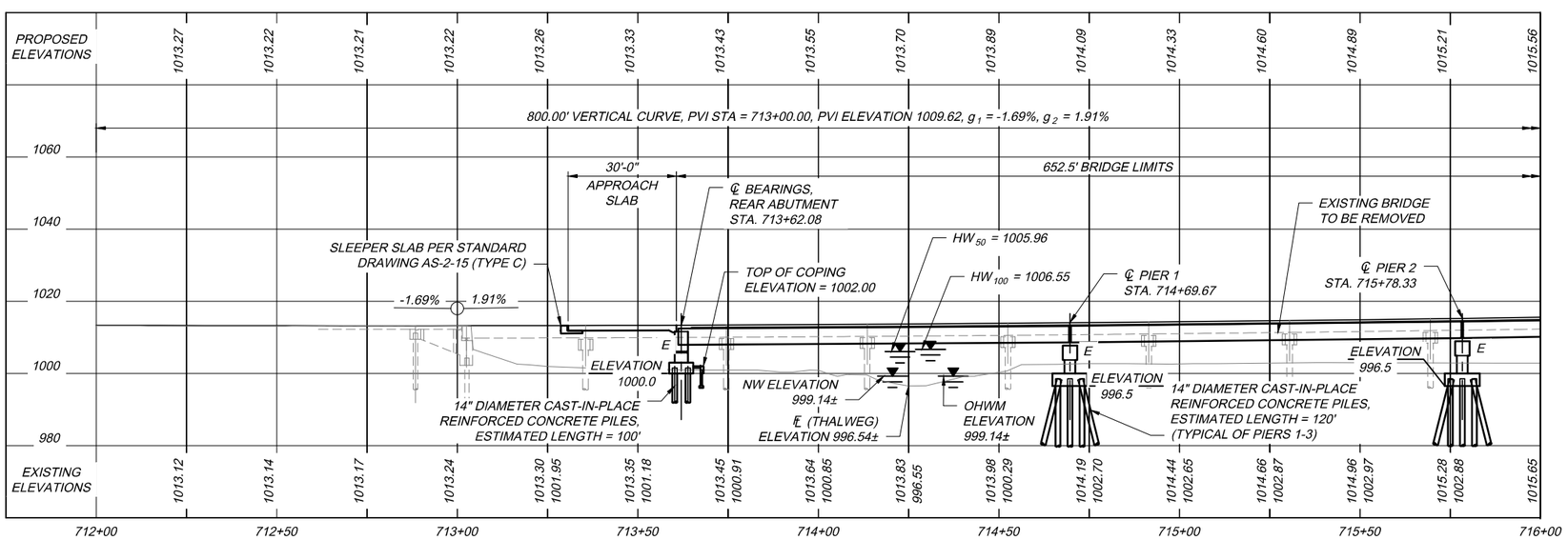


PLAN



PROFILE

(ALONG ℄ WESTBOUND LANES, EASTBOUND SIMILAR)
('E' DENOTES EXPANSION BEARING)

BENCHMARK	STATION	OFFSET	NORTHING	EASTING	ELEVATION
BM501	691+07.49	89.27' RT	579889.55	2270057.20	1022.24
BM502	17+83.80	70.74' RT	580480.00	2274837.23	1047.59
CP101	OUTSIDE STATION LIMITS		579857.51	2269720.29	1029.98
CP102	18+12.18	80.17' RT	580473.93	2274866.56	1042.00
CP103	20+07.69	75.87' LT	580652.16	2275042.12	1046.10
CP104	OUTSIDE STATION LIMITS		580030.65	2269752.11	1027.04

SEE SHEET 2/119 FOR ADDITIONAL BENCHMARK INFORMATION.

NOTES:

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:
2024 ADT = 18,551 (EASTBOUND) 17,563 (WESTBOUND)
2024 ADTT = 5,194 (EASTBOUND) 4,918 (WESTBOUND)

2044 ADT = 20,361 (EASTBOUND) 19,276 (WESTBOUND)
2044 ADTT = 5,701 (EASTBOUND) 5,397 (WESTBOUND)

HYDRAULIC DATA:

DRAINAGE AREA = 20.5 SQUARE MILES
Q (50) = 2,200 CFS V (50) = 1.28 FT/S
Q (100) = 2,575 CFS V (100) =1.31 FT/S
STRUCTURE CLEARS THE 50 YEAR DESIGN HW BY 1.30 FEET
NO OVERTOPPING OCCURS FOR 500-YEAR FLOOD

LEGEND:

- BORING LOCATION

NW - NORMAL WATER
OHWM - ORDINARY HIGH WATER MARK
HW - HIGH WATER
℄ - FLOW

EXISTING STRUCTURE

TYPE: CONTINUOUS NON-COMPOSITE STEEL BEAMS WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURES.

SPANS: 4 "A" UNITS (144'-0" EACH)
3 "B" UNITS (129'-0" EACH)
SEPARATED BY LINK JOINTS AND LOCATED ALTERNATELY
TOTAL 25 SPANS
UNIT A: 33'-0", 39'-0", 39'-0,' 33'-0" ℄ BEARING TO ℄ BEARING.
UNIT B: 6'-0 , 39'-0", 39'-0", 39'-0", 6'-0" ℄ BEARING TO ℄ BEARING.

ROADWAY: 60'-0" TOE TO TOE CONCRETE PARAPETS

LOADING: HS 20-44 AND ALTERNATE MILITARY LOADING

SKEW: 0°-0'-00"

APPROACH SLABS: 15'-0" LONG EACH ABUTMENT (AS-1 AND AS-2)

ALIGNMENT: TANGENT

CROWN: 0.016 FT/FT

WEARING SURFACE: MONOLITHIC CONCRETE

STRUCTURAL FILE NUMBER: 7729979

DATE BUILT: 1954, REHABBED AND WIDENED IN 1984 AND 1997

DISPOSITION : TO BE REMOVED

PROPOSED STRUCTURE

TYPE: MULTI-SPAN COMPOSITE PRESTRESSED CONCRETE BEAMS WITH CONTINUOUS REINFORCED CONCRETE DECK. THE SUPERSTRUCTURE IS SUPPORTED ON SEMI-INTEGRAL ABUTMENTS AND CAP-AND-COLUMN PIERS ON PILES

SPANS: 107'-7", 108'-8", 108-8", 108'-8", 108'-8", 107'-7" (C/C SUBSTRUCTURES)
106'-6", 106'-6", 106'-6", 106'-6", 106'-6", 106'-6" (C/C BEARINGS)

ROADWAY: 60'-3½" TOE TO TOE CONCRETE PARAPETS

LOADING: HS 20-44 AND ALTERNATE MILITARY LOADING

SKEW: 0°-0'-00"

APPROACH SLABS: 30'-0" LONG (AS-1-15 AND AS-2-15)

ALIGNMENT: TANGENT

CROWN: 3/16"/FT

WEARING SURFACE: 1" MONOLITHIC CONCRETE

STRUCTURE FILE NUMBER: 7729980

COORDINATES: LATITUDE 41°15' 14.44' N
LONGITUDE 81°23'44.04' W

DESIGN AGENCY
ONE EASTON OVAL
SUITE 400
COLUMBUS, OH 43219
T 614-475-6000
F 614-476-6225
WOOLPERT

NO.	REVISIONS	BY	DATE
-	-	-	-
-	-	-	-
-	-	-	-

DESIGNED	CHECKED	DRAWN	IN CHARGE
PES	TML	JYM	TML

PROJECT 43-23-04
DATE: 1/17/23

GENERAL PLAN AND PROFILE - 1 OF 2
OHIO TURNPIKE OVER TINKERS CREEK
SUMMIT COUNTY
M.P. 185.6

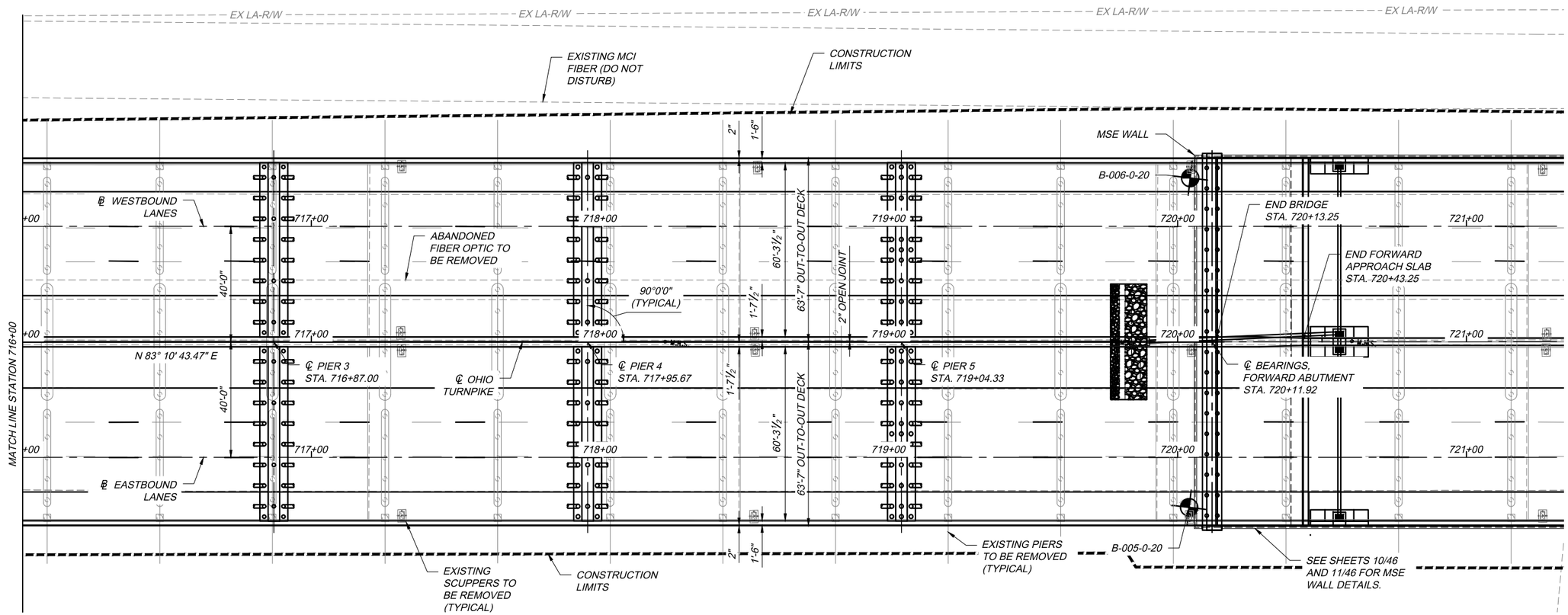
1 / 46

74 / 119

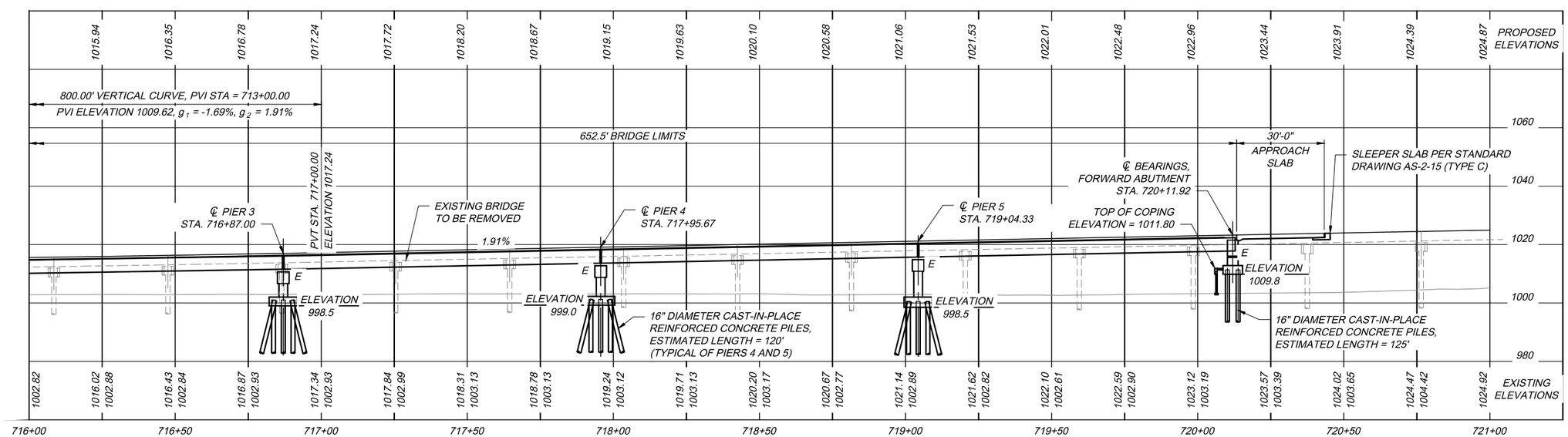
OHIO TURNPIKE

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

FinalPlansBlnd_81533_SP001.dwg: 1/28/23 - 5:27pm



PLAN



PROFILE

(ALONG ℄ WESTBOUND LANES, EASTBOUND SIMILAR)
('E' DENOTES EXPANSION BEARING)

NOTE:

1. SEE SHEET 7/46 & 8/46 FOR EMBANKMENT DETAILS NOT SHOWED.

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WOOLPERT
ONE EASTON OVAL
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-	-	-	-
-	-	-	-
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DESIGNED PES | CHECKED TML
DRAWN JYM | IN CHARGE TML

GENERAL PLAN AND PROFILE - 2 OF 2
OHIO TURNPIKE OVER TINKERS CREEK
M.P. 185.6
SUMMIT COUNTY

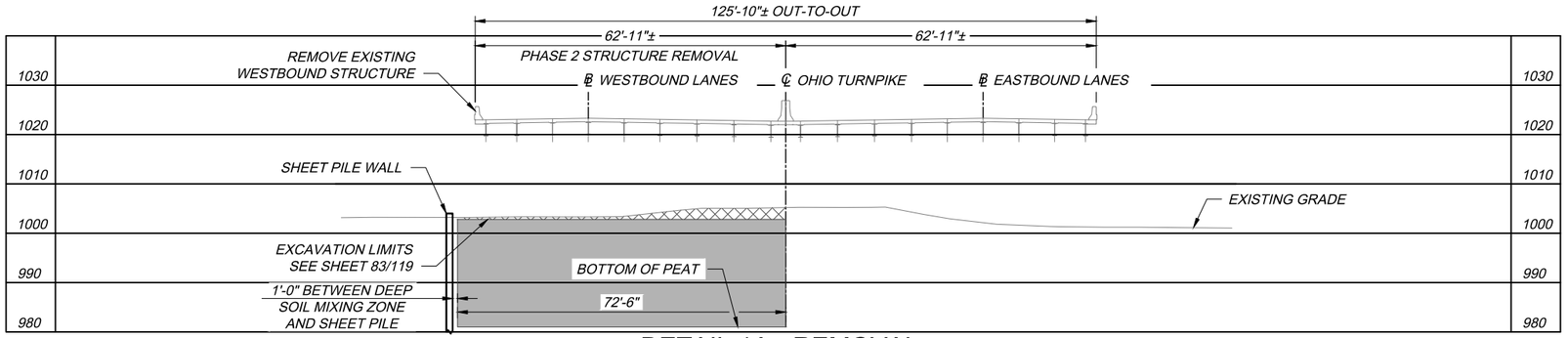
PROJECT 43-23-04
DATE: 12/9/22

2 / 46

75 / 119

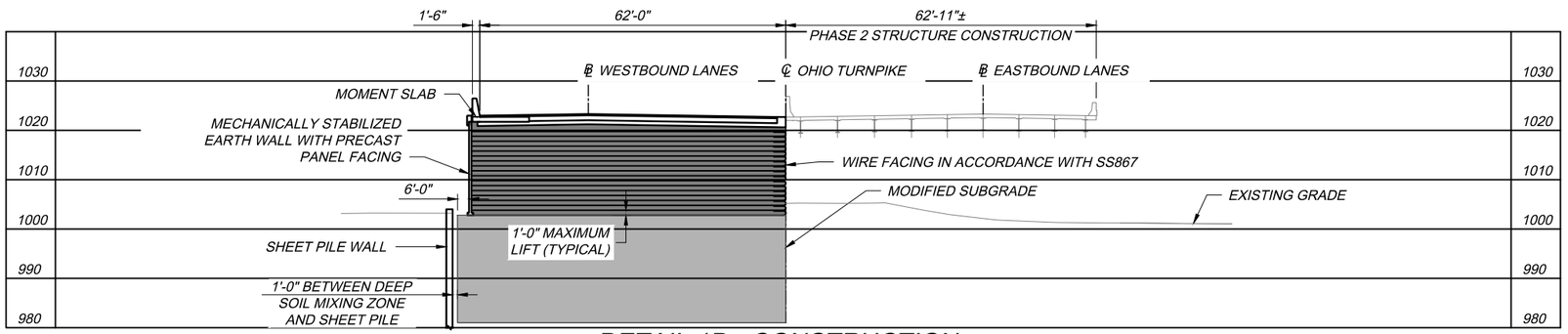
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

FinalPlansBind_81533_SP001.dwg: 12/07/22 - 4:22pm



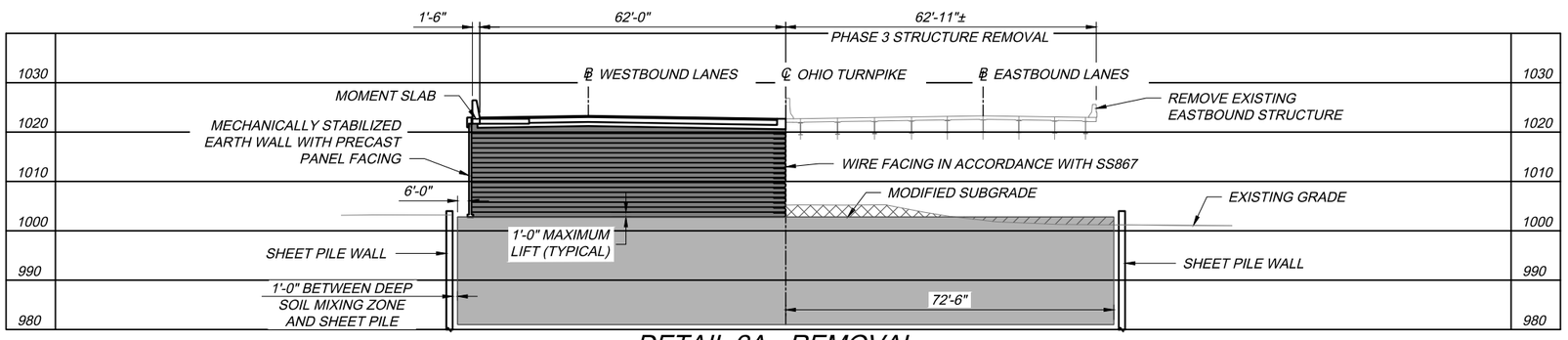
DETAIL 1A - REMOVAL

(FACING EASTBOUND)



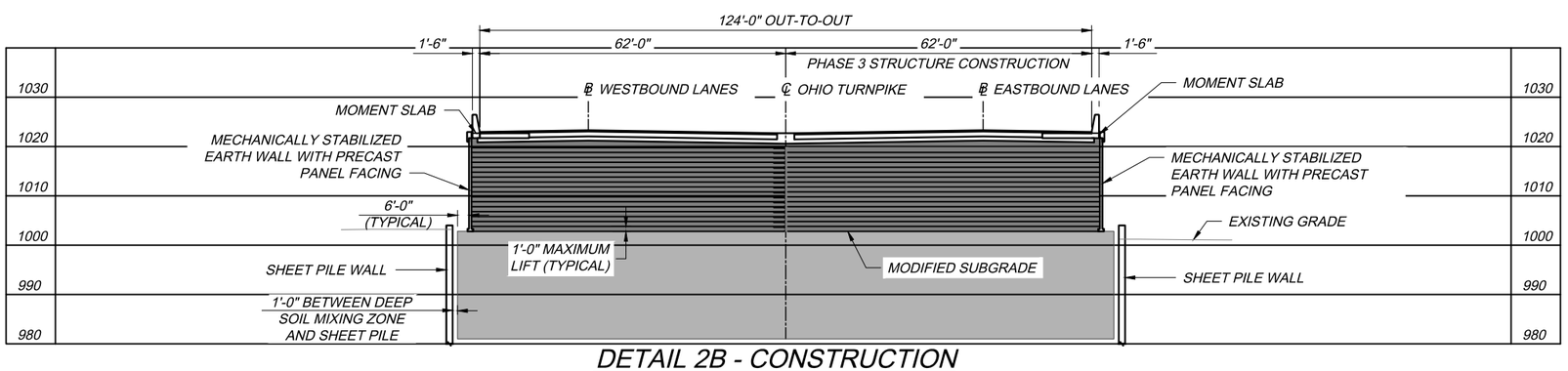
DETAIL 1B - CONSTRUCTION

(FACING EASTBOUND)



DETAIL 2A - REMOVAL

(FACING EASTBOUND)



DETAIL 2B - CONSTRUCTION

(FACING EASTBOUND)

SEQUENCE FOR CONSTRUCTION

DETAIL 1A

INSTALL SHEET PILE WALL AND EXCAVATE EXISTING PEAT MATERIAL AT FORWARD EMBANKMENT TO ELEVATIONS SHOWN ON SHEET 83/119. EXCAVATION SHALL EXTEND FROM APPROXIMATELY STATION 720+00.00 (℄ OHIO TURNPIKE, BACK) TO STATION 1+25.00 (℄ OHIO TURNPIKE, AHEAD) AT EXISTING FORWARD ABUTMENT. EXCAVATION IS ASSUMED TO OCCUR CONCURRENTLY WITH PHASE 2 REMOVAL OF WESTBOUND STRUCTURE (SHOWN ON SHEET 78/119), BUT MAY BEGIN PRIOR TO ANY MAINTENANCE OF TRAFFIC CLOSURES ON STRUCTURE IN AREAS WHERE THERE IS SUFFICIENT VERTICAL CLEARANCE AND WHERE NO INTERFERENCE WILL OCCUR. PERFORM GROUND MODIFICATION OF EXISTING PEAT MATERIALS USING DEEP SOIL MIXING COLUMNS TO ELEVATIONS SHOWN ON SHEET 83/119. INSTALL TRAFFIC CONTROL AS DETAILED ON THE MAINTENANCE OF TRAFFIC PLANS.

DETAIL 1B

AFTER GROUND MODIFICATION HAS BEEN COMPLETED, BEGIN MECHANICALLY STABILIZED EARTH WALL CONSTRUCTION UP TO PROPOSED PAVEMENT SUBGRADE. CONSTRUCT NEW WESTBOUND ROADWAY AS SHOWN ON TYPICAL SECTIONS (SHEETS 3/119 - 4/119). THIS WORK IS COMPLETED WHILE TRAFFIC IS MAINTAINED ON THE EXISTING EASTBOUND LANES USING THE TRAFFIC CONTROL ESTABLISHED IN PHASE 2 CONSTRUCTION (SHEET 78/119).

MECHANICALLY STABILIZED EARTH WALL SHALL BE IN ACCORDANCE WITH ODOT SUPPLEMENTAL SPECIFICATION 840. THE WIRE FACING ALONG THE CENTER PHASE CONSTRUCTION LINE SHALL BE PROVIDED IN ACCORDANCE WITH ODOT SUPPLEMENTAL SPECIFICATION 867.

DETAIL 2A

AFTER COMPLETION OF WESTBOUND STRUCTURE, SWITCH TRAFFIC CONTROL AS DETAILED ON THE MAINTENANCE OF TRAFFIC PLANS. REMOVE THE EXISTING EASTBOUND STRUCTURE AS SHOWN IN PHASE 3 REMOVAL (SHEET 79/119). INSTALL SHEET PILE WALL AND EXCAVATE EXISTING PEAT MATERIAL AT FORWARD EMBANKMENT TO ELEVATIONS SHOWN ON SHEET 83/119. EXCAVATION SHALL EXTEND FROM APPROXIMATELY STATION 720+00.00 (℄ OHIO TURNPIKE, BACK) TO STATION 1+25.00 (℄ OHIO TURNPIKE, AHEAD) AT EXISTING FORWARD ABUTMENT. EXCAVATION IS ASSUMED TO OCCUR CONCURRENTLY WITH PHASE 3 REMOVAL OF EASTBOUND STRUCTURE BUT MAY BEGIN DURING AN EARLIER PHASE IN AREAS WHERE THERE IS SUFFICIENT VERTICAL CLEARANCE AND WHERE NO INTERFERENCE WILL OCCUR. PERFORM GROUND MODIFICATION OF EXISTING PEAT MATERIALS USING DEEP SOIL MIXING COLUMNS TO ELEVATIONS SHOWN ON SHEET 83/119. INSTALL TRAFFIC CONTROL AS DETAILED ON THE MAINTENANCE OF TRAFFIC PLANS.

DETAIL 2B

CONSTRUCT MECHANICALLY STABILIZED EARTH EMBANKMENT AND WALL BELOW THE PROPOSED EASTBOUND STRUCTURE IN 2H:1V BENCHES. CONSTRUCT NEW EASTBOUND ROADWAY AS SHOWN ON TYPICAL SECTIONS (SHEETS 3/119 - 4/119). THIS WORK IS COMPLETED WHILE TRAFFIC IS MAINTAINED ON THE NEWLY CONSTRUCTED WESTBOUND LANES USING THE TRAFFIC CONTROL ESTABLISHED IN PHASE 3 CONSTRUCTION SHEET 79/119).

LEGEND

- ITEM 203 - EXCAVATION
- ITEM 530 SPECIAL - STRUCTURES, GROUND IMPROVEMENTS
- ITEM 840 - SELECT GRANULAR BACKFILL

SCALE: 1" = 30' (TYPICAL)

NOTES

1. SEE SHEETS 6/119 - 49/119 FOR ADDITIONAL MAINTENANCE OF TRAFFIC DETAILS.
2. SEE SHEETS 78/119 AND 79/119 FOR ADDITIONAL PHASE CONSTRUCTION DETAILS.
3. SEE SHEET 83/119 FOR EAST EMBANKMENT ELEVATION.

DESIGN AGENCY
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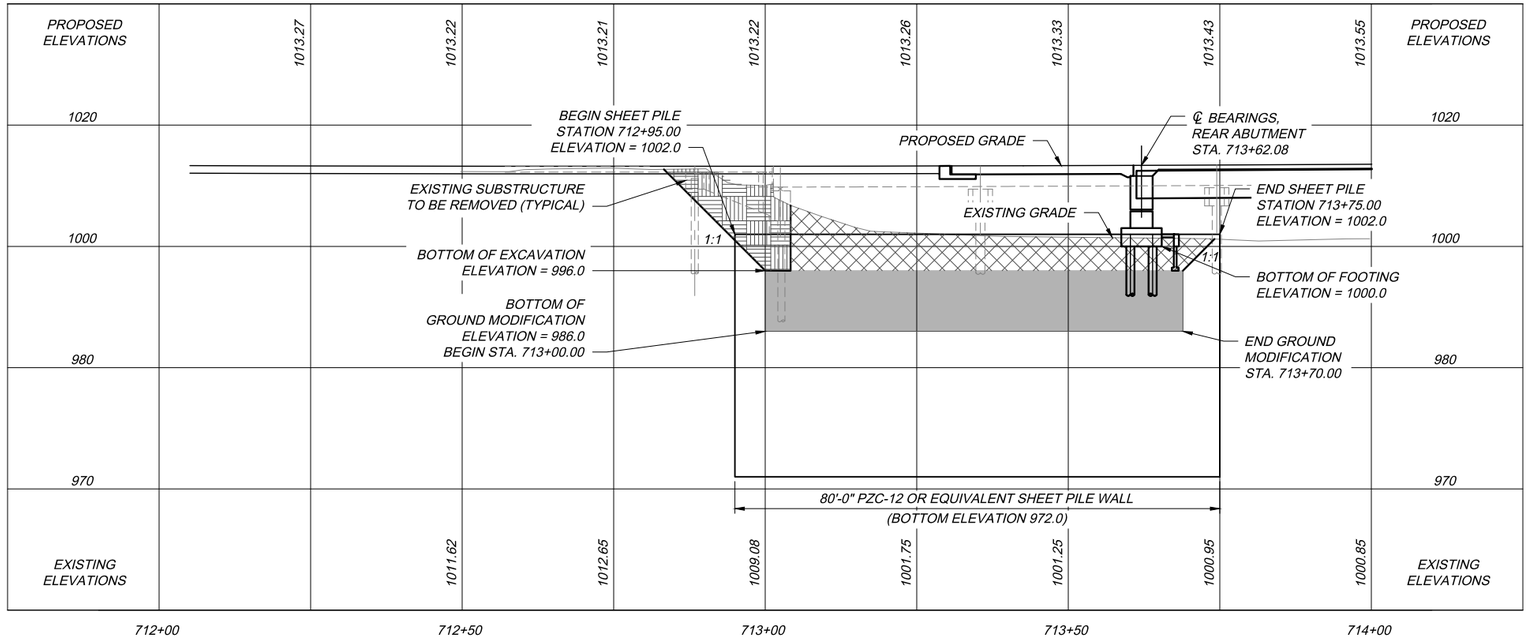
-	-	-	-
-	-	-	-
-	-	-	-

DESIGNED	DRAWN	CHECKED	IN CHARGE
JYM	JYM	TML	TML

FORWARD EMBANKMENT DETAILS
OHIO TURNPIKE OVER TINKERS CREEK
SUMMIT COUNTY
M.P. 185.6

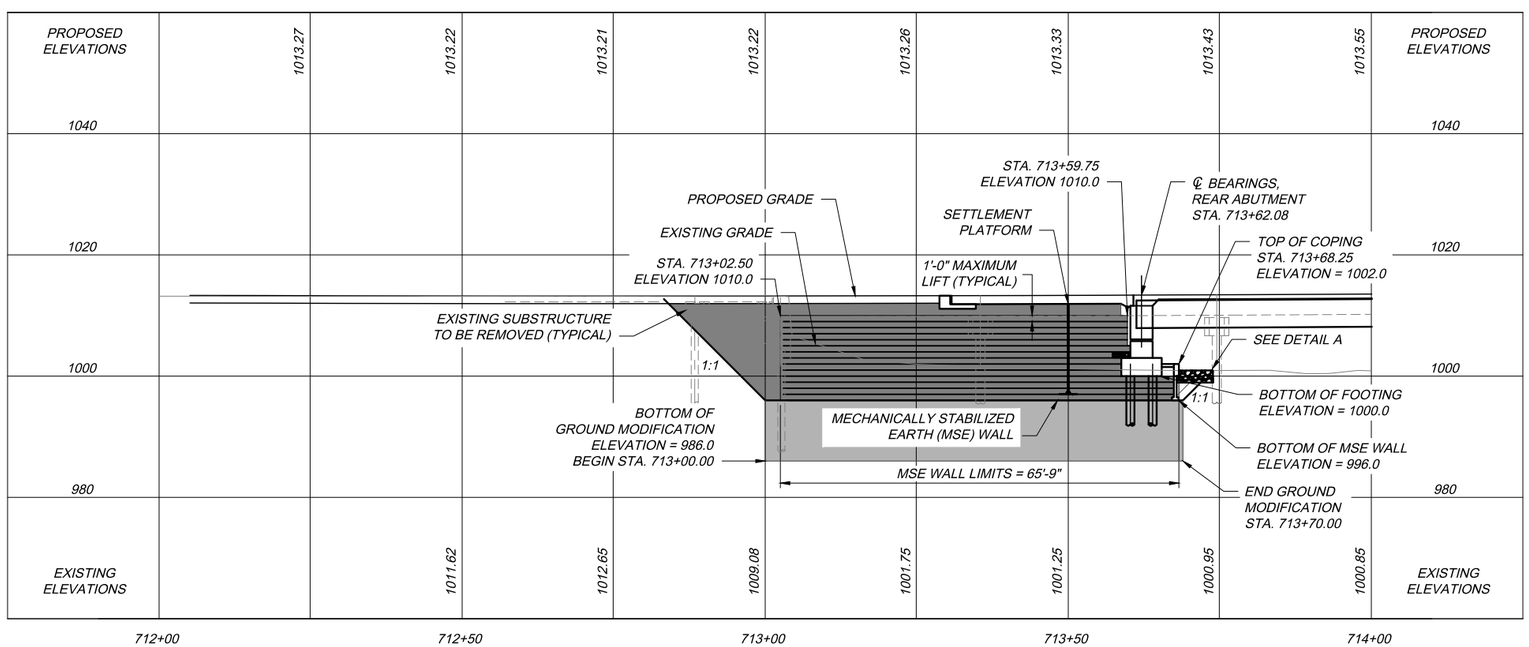
PROJECT 43-23-04
DATE: 12/9/22

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION



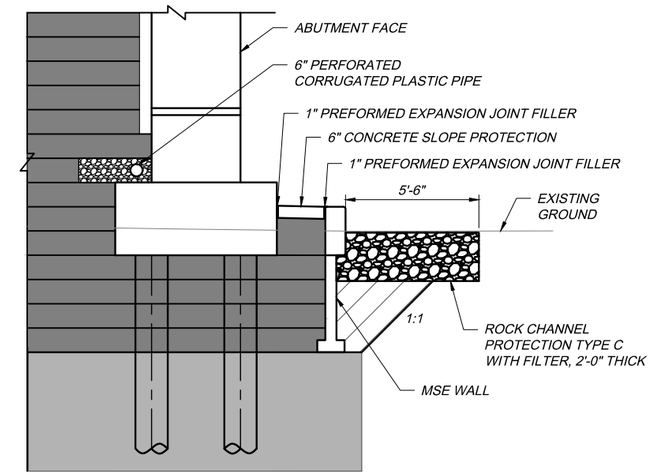
REAR EMBANKMENT ELEVATION

(MSE WALL NOT SHOWN FOR CLARITY)
1" = 25'

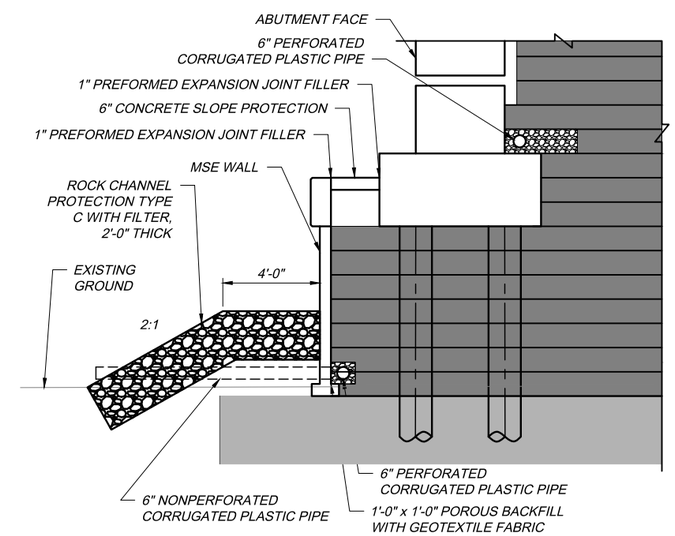


REAR EMBANKMENT ELEVATION

(SHEET PILE WALL NOT SHOWN FOR CLARITY)
1" = 25'



DETAIL A



DETAIL B

LEGEND

- ITEM 203 - EXCAVATION
- ITEM 530 SPECIAL - STRUCTURES, GROUND IMPROVEMENTS
- ITEM 840 - SELECT GRANULAR BACKFILL
- EXISTING STRUCTURE REMOVAL & ITEM 503 UNCLASSIFIED EXCAVATION, AS PER PLAN

SHEET PILE DESIGN DATA:
PZC-12 OR EQUIVALENT, MINIMUM EI=6,985 K-IN^2/FT
STRUCTURAL STEEL - ASTM A572 GRADE 50 - YIELD STRENGTH 50 KSI

NOTES

1. SEE SHEET 12/46 FOR MSE DETAILS ALONG ABUTMENT FACE.
2. SEE SHEET 80 / 119 FOR REAR EMBANKMENT DETAILS.
3. SEE SHEE 83/119 FOR FORWARD EMBANKMENT ELEVATION AND LOCATION OF DETAIL B

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JYM	TML	JYM	TML

REAR EMBANKMENT ELEVATIONS
OHIO TURNPIKE OVER TINKERS CREEK
SUMMIT COUNTY
M.P. 185.6

PROJECT 43-23-04
DATE: 12/9/22

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

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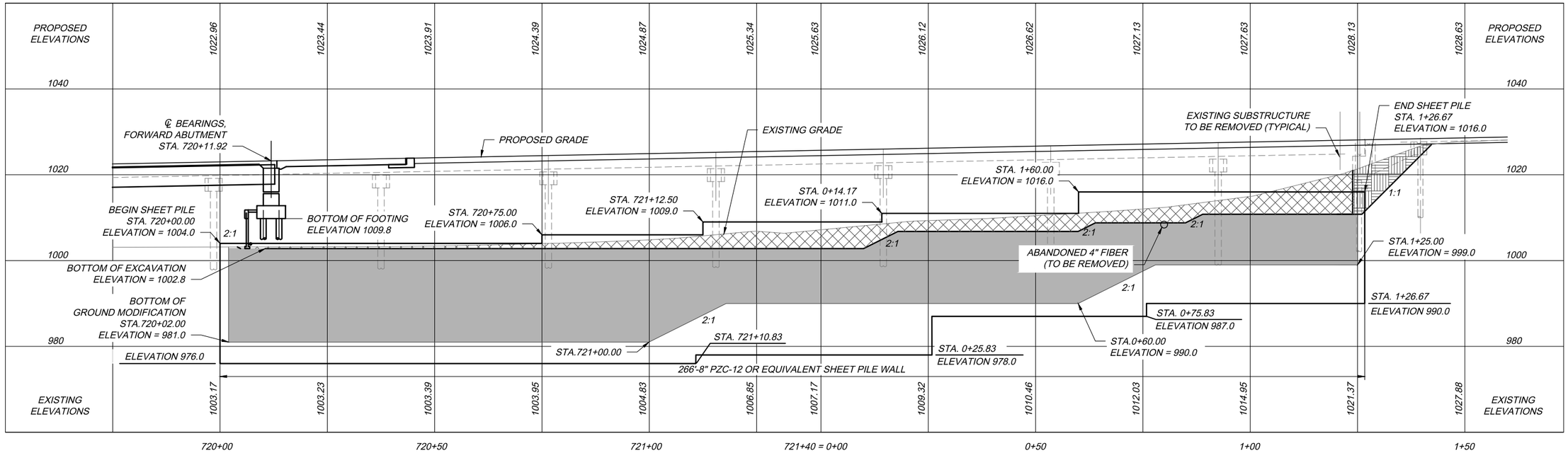


FORWARD EMBANKMENT ELEVATION

(MSE WALL NOT SHOWN FOR CLARITY)
1" = 25'

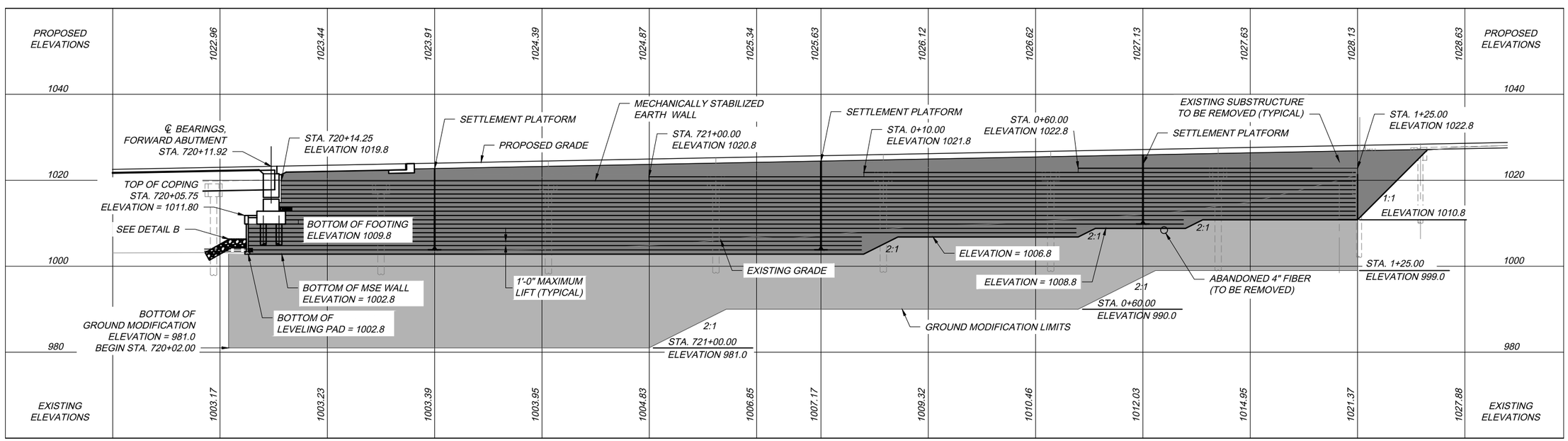
LEGEND

- ITEM 203 - EXCAVATION
- EXISTING STRUCTURE REMOVAL AND ITEM 503 UNCLASSIFIED EXCAVATION, AS PER PLAN
- ITEM 530 SPECIAL - STRUCTURES, GROUND IMPROVEMENTS
- ITEM 840 - SELECT GRANULAR FILL

SHEET PILE DESIGN DATA:
PZC-12 OR EQUIVALENT, MINIMUM EI=6,985 K-IN^2/FT
STRUCTURAL STEEL - ASTM A572 GRADE 50 - YIELD STRENGTH 50 KSI

NOTES

1. SEE SHEET 81/119 FOR FORWARD EMBANKMENT DETAILS.
2. SEE SHEET 82/119 FOR DETAIL B.



FORWARD EMBANKMENT ELEVATION

(SHEET PILE WALL NOT SHOWN FOR CLARITY)
1" = 25'

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FORWARD EMBANKMENT ELEVATIONS
OHIO TURNPIKE OVER TINKERS CREEK
M.P. 185.6
SUMMIT COUNTY

PROJECT 43-23-04
DATE: 12/9/22

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

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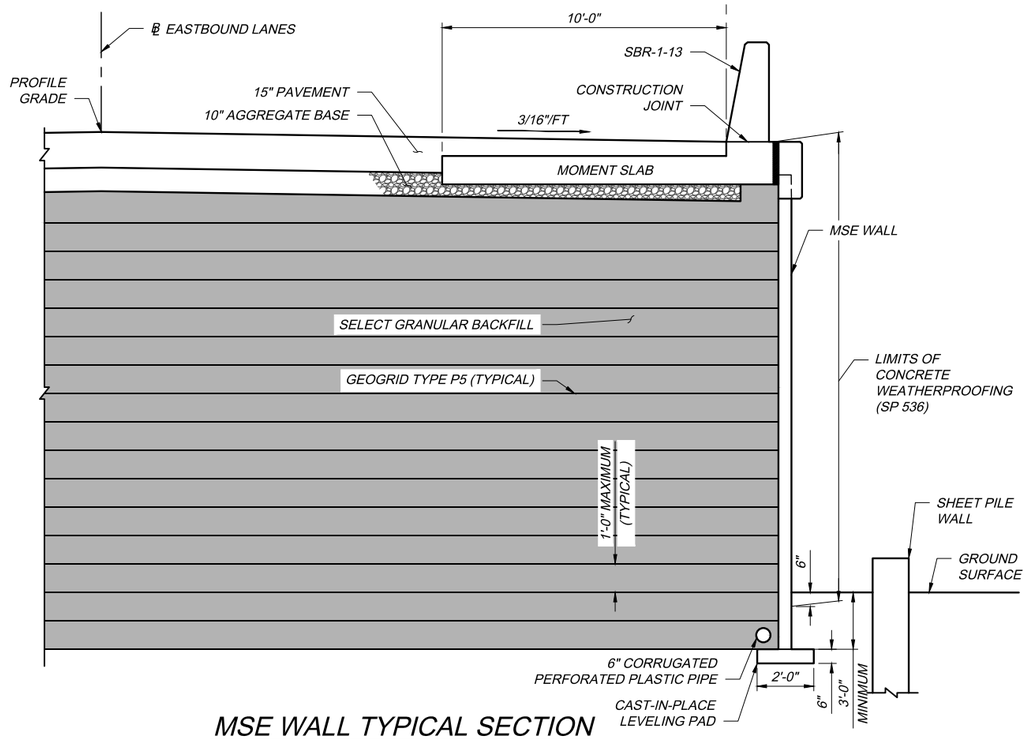
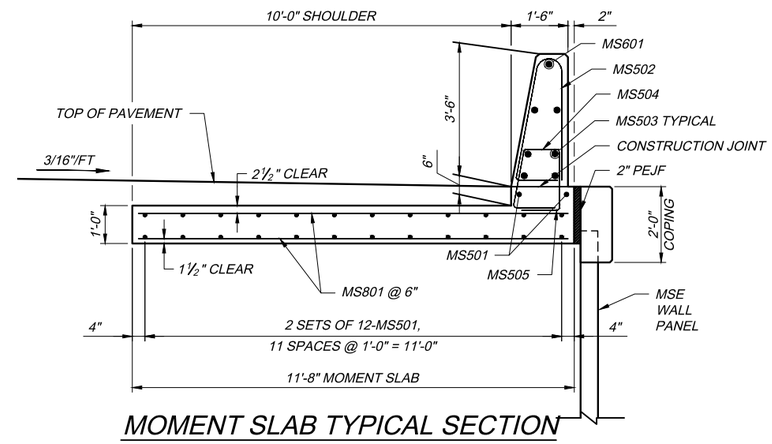
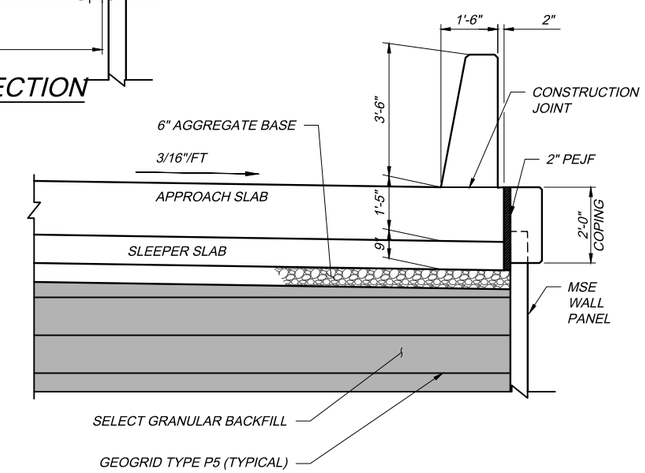


MSE WALL TYPICAL SECTION

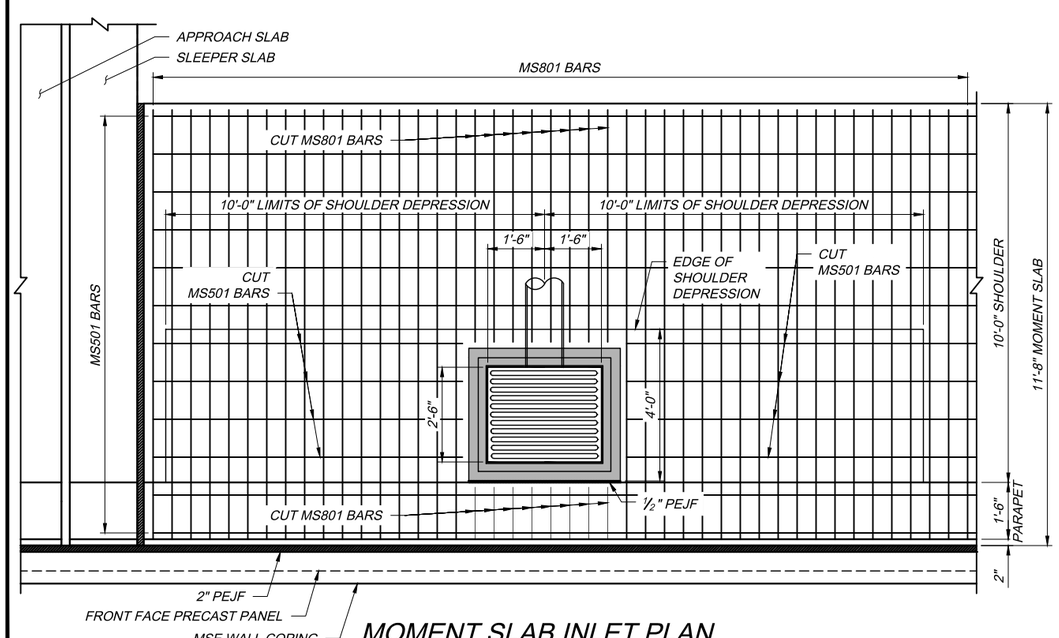
(EASTBOUND SHOWN, WESTBOUND SIMILAR)



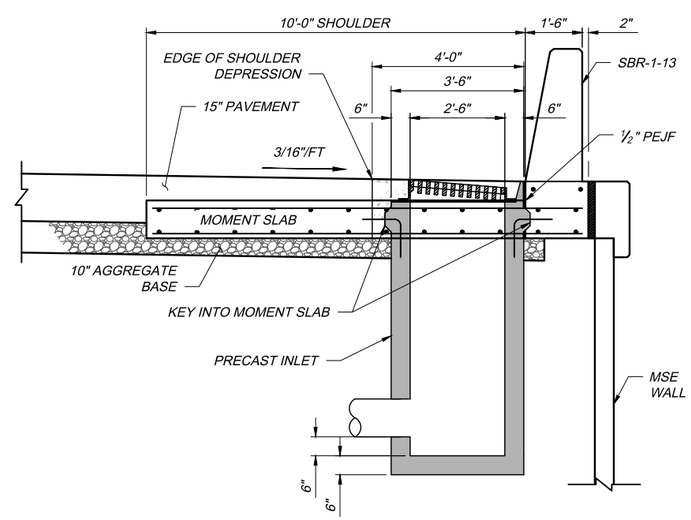
MOMENT SLAB TYPICAL SECTION



MSE WALL TYPICAL SECTION AT APPROACH SLAB



MOMENT SLAB INLET PLAN



MOMENT SLAB INLET DETAIL

NOTES:

1. WALL PANELS AND COPING JOINT SPACING SHALL NOT EXCEED 20'-0". COPING JOINTS SHALL BE OFFSET FROM PANEL JOINTS SO THAT THEY ARE LOCATED AT THE ℄ OF EACH WALL PANEL. REINFORCING IS TO BE DISCONTINUED ACROSS COPING JOINTS. COPING JOINTS SHALL BE SHOWN IN THE CONTRACTOR'S SHOP AND WORKING DRAWINGS.
2. ALL REINFORCING FOR THE CONCRETE PANELS SHALL BE EPOXY COATED.
3. SP 536 CONCRETE WEATHERPROOFING SHALL BE APPLIED TO THE SURFACES OF THE CONCRETE PANELS AS SHOWN IN THE PLAN.
4. THE BACK FACE OF VERTICAL AND HORIZONTAL JOINTS BETWEEN CONCRETE PANELS SHALL BE COVERED WITH MINIMUM 1'-0" WIDE GEOTEXTILE FABRIC.
5. PLACE CONTROL JOINTS IN MOMENT SLAB AT 15'-0" SPACING, CONSISTING OF 1¼" SAWCUTS. PLACE 1" PEJF EXPANSION JOINTS AT 30'-0" SPACING IN MOMENT SLAB.
6. CUT MOMENT SLAB BARS MS501 AND MS801 AROUND INLET AS NECESSARY.
7. CONCRETE FOR STORM DRAIN INLET SHALL BE CLASS QC1.
8. SEE SHEET 66/119 FOR INLET ELEVATIONS AND ADDITIONAL INLET DETAILS.

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JYM	TML
DRAWN	IN CHARGE
JYM	TML

MSE AND MOMENT SLAB DETAILS
OHIO TURNPIKE OVER TINKERS CREEK
SUMMIT COUNTY
M.P. 185.6

PROJECT 43-23-04
DATE: 12/9/22

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

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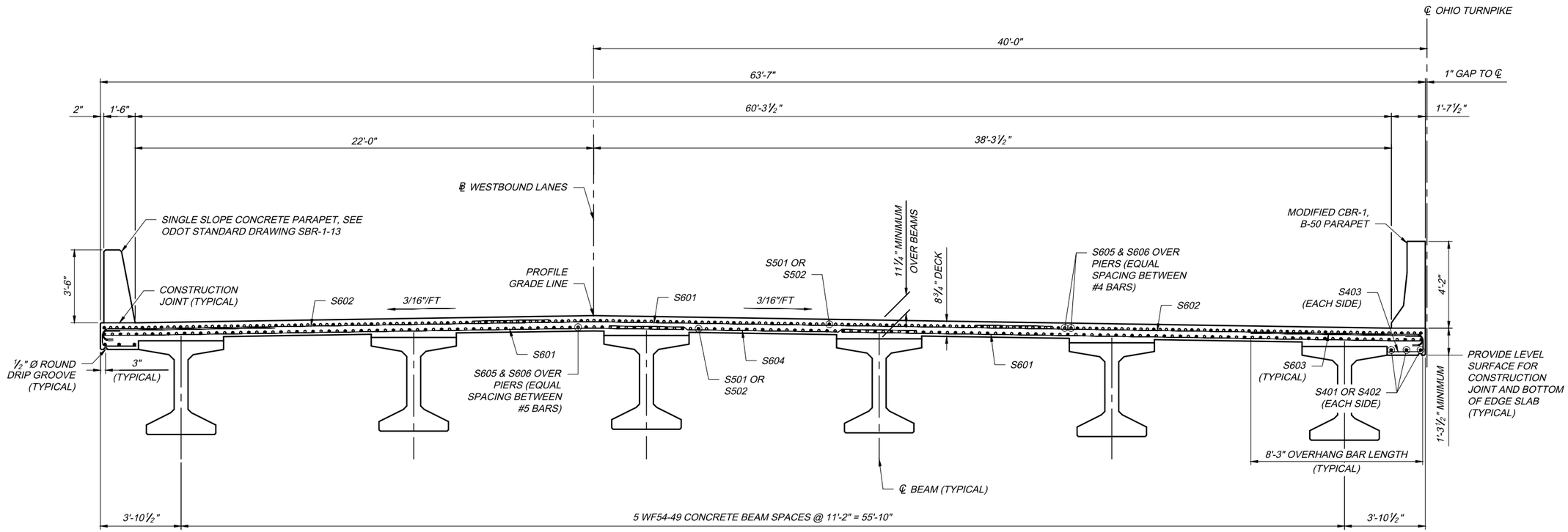
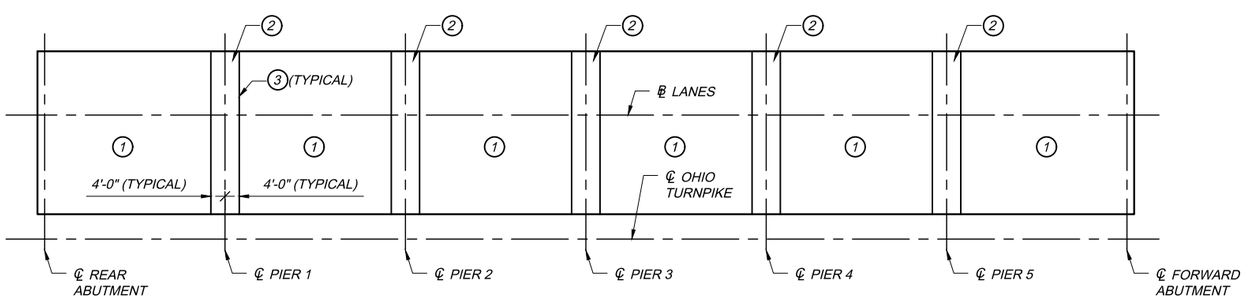


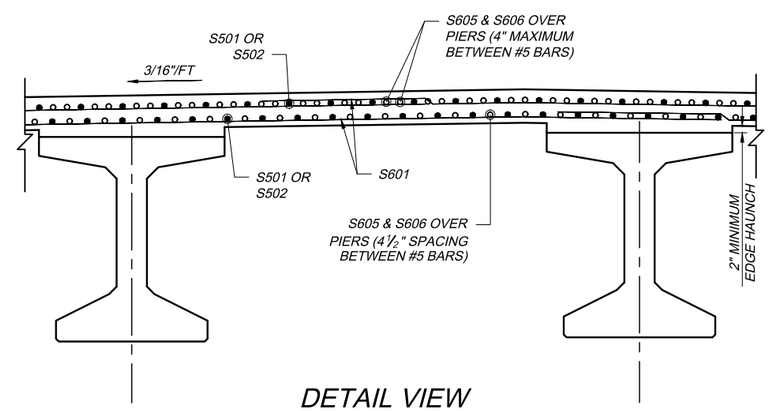
TRANSVERSE SECTION

(WESTBOUND SHOWN, EASTBOUND OPPOSITE HAND)



DECK POUR SCHEMATIC

(WESTBOUND SHOWN, EASTBOUND SIMILAR)
(NOT TO SCALE)



DETAIL VIEW

DECK POUR SEQUENCE

1. DECK POUR IN THESE LOCATIONS TO BE COMPLETED FIRST.
2. PIER DIAPHRAGM AND 8'-0" DECK SECTION WITHIN CONSTRUCTION JOINTS TO BE POURED MONOLITHICALLY AFTER ADJACENT DECK POUR, PER OHIO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING PSID-1-13.
3. SEAL ALL DECK CONSTRUCTION JOINTS WITH A 2'-0" WIDE STRIP OF HIGH MOLECULAR WEIGHT METHACRYLATE (HMWM) RESIN.

NOTES:

1. SEE SHEETS 33/46 - 34/46 FOR DECK REINFORCING PLAN.
2. SEE SHEET 39/46 FOR PARAPET DETAILS.
3. SEE OHIO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING SBR-1-13 AND OHIO TURNPIKE STANDARD DRAWING CBR-1 FOR ADDITIONAL PARAPET DETAILS.
4. MINIMUM LAP LENGTHS SHALL BE AS FOLLOWS:
   #4 BARS = 1'-11"
   #5 BARS = 2'-5"
   #6 BARS = 3'-7"

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DESIGNED CML | CHECKED JYM | DRAWN PES | IN CHARGE TML

TRANSVERSE SECTION
OHIO TURNPIKE OVER TINKERS CREEK
SUMMIT COUNTY
M.P. 185.6

PROJECT 43-23-04
DATE: 12/9/22

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

FinalPlansBind_81533_ST001.dwg: 12/07/22 - 5:00pm

An Avoidance – Minimization Plan for the Spotted Turtle During Construction at the I-80 Bridge Project over Tinker's Creek, Summit County, OH

Submitted to:

Len Mikles
ASC Group, Inc.
800 Freeway Drive North, Suite 101
Columbus, Ohio 43229

April 5, 2022

Jeffrey G. Davis, LLC
625 Crescent Road
Hamilton, Ohio 45013
(513) 470-8748 ohiofrogs@gmail.com
Ohio Division of Wildlife Approved Herpetologist
USFWS Massasauga Permit Holder

This Avoidance – Minimization Plan is in response to recommendations for avoiding and minimizing impacts to the state threatened Spotted Turtle (Figure 1) in Tinker's Creek at the I-80 bridge project. In Section 6.0 (Recommendations) of the report I submitted 20 March 2022, to MAD Scientists Associates, LLC (A Spotted Turtle Habitat Assessment at the I-80 Bridge Project over Tinker's Creek, Summit County, OH), I noted that no suitable Spotted Turtle habitat was found immediately north or south of, or under the bridge. However, extant populations of this species are known along Tinker's Creek upstream and downstream of the bridge. Spotted Turtles may move considerable distances through water bodies. This plan is intended to protect turtles that might use Tinker's Creek during their dispersal and migration, by inhibiting their ability to climb out of the creek and move over land into the project area where they could be impacted by heavy equipment or construction operations.

Avoidance – Minimization Plans often include having a herpetologist on site to monitor for activity and movement of the subject species and to move them to a safe area should one enter the construction area. I believe this can be avoided at the I-80 bridge project site because of the lack of suitable habitat. Measures to prevent turtles from accessing the construction areas should be sufficient.

The plan requires the installation of 24-inch silt fencing (Figure 2), buried to four inches at its base, along the north and south edges of the construction area on both sides of Tinker's Creek. Silt fencing would also extend along the margin of the stream on both sides and connect to the silt fencing on the edges of the construction area (See Figure 3). In the event a Spotted Turtle does find its way into the area enclosed with silt fencing, construction must stop and the turtle should be photographed (cell phone photo is more than adequate). Construction only needs to stop inside the area enclosed by silt fencing on the side of Tinker's Creek where the turtle is found. Call 1-800-762-2437 and a Wildlife Officer will be dispatched to move the turtle out of harms way. The Wildlife Officer might request that the photograph be sent to him for positive identification before he drives to the site. Threatened and Endangered species may only be handled by authorized

personnel. The silt fencing must remain in place, the base of it buried to 4 inches, and with no breaches, during the duration of the construction project.

Figure 1. The Spotted Turtle attains a maximum length of approximately 4.5 to 5 inches. The number and color intensity of the yellow spots is variable. Should one be encountered within the excluded areas (see yellow lines in Figure 3), it should be photographed. It must be removed by an ODNR Wildlife Officer. Call 1-800-762-2437 to have one dispatched to the site. Threatened and Endangered species may only be handled by authorized personnel.

Figure 2. Left – Silt fencing used to surround the project site must be solid so turtles cannot see beyond it. **Right** - Barrier fencing may not be used to exclude Spotted Turtles from the project site. Wildlife may become entangled in the openings of such material and because turtles can see through it, they may attempt to push through.

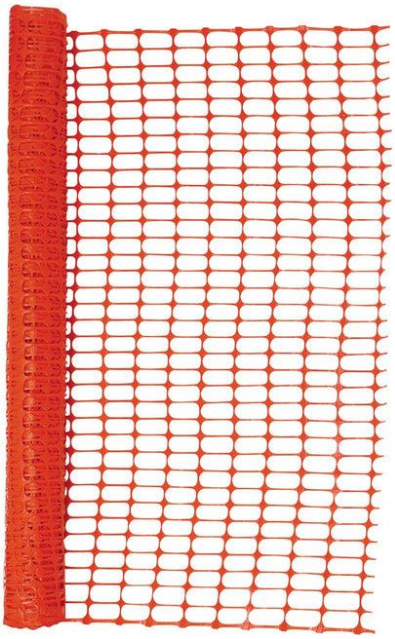
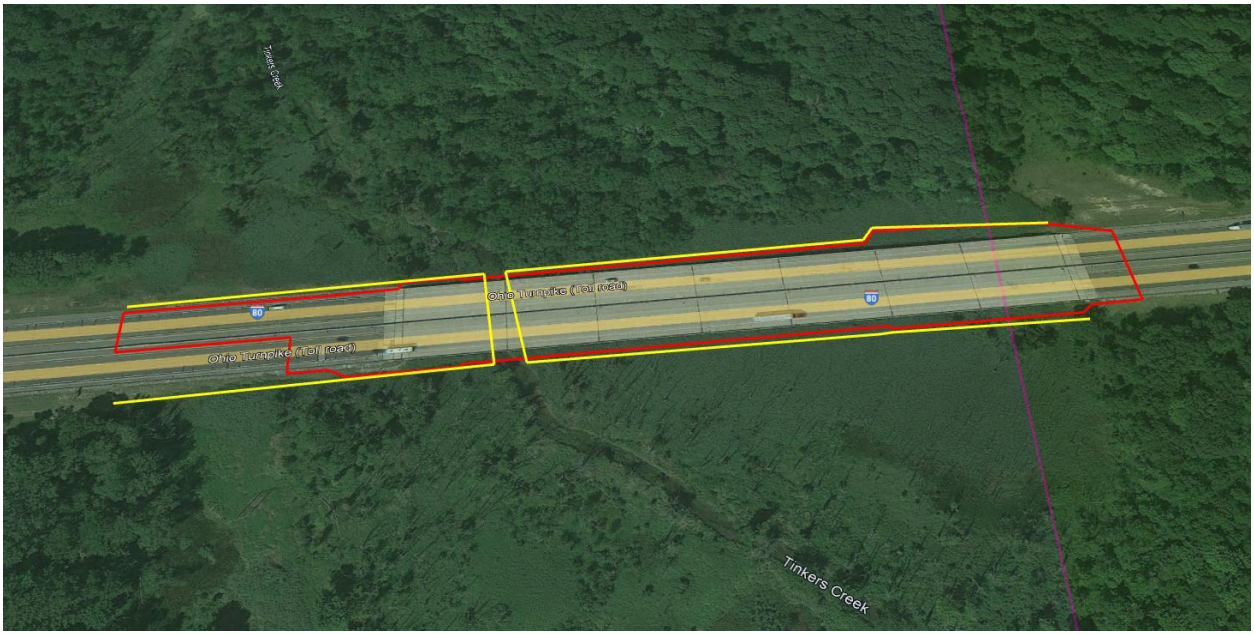
Figure 3. Red lines mark the subject site at the I-80 bridge over Tinker's Creek. Yellow lines indicate where 24-inch silt fencing should be installed and buried 4 inches below grade, on the north and south side of the construction area on each side of Tinker's Creek and parallel to the creek's east and west shoreline under the bridge. The silt fence must be contiguous with no gaps. It should be inspected daily along its length for any breaches, which should be immediately repaired.