

PROJECT	DESIGNATION
1900009	1900009
CONTRACT	BRIDGE FILE
B-43636	020-45-02821

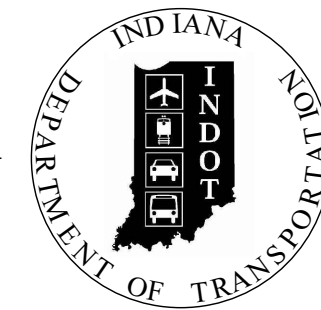
STRUCTURE INFORMATION

STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
020-45-02821	Continuous Composite Steel Plate Girder Bridge	2 Spans: 135'-0", 85'-0" Skew: 0°	Kennedy Avenue & Indiana Harbor Belt Railroad	552+19.71 Line "A"

NOTE TO REVIEWER:

The project scope has been updated to include a multi-use path, that will be part of the Marquette Greenway Trail, and will be coordinated with other trail projects at the west end (Des. 1601146) and east end (Des. 1901900), as well as with the Kennedy Avenue Road Diet project (Des. 1901902). Additionally, in coordination with the District, the bridge clear roadway width has been increased to improve MOT for future bridge maintenance projects. Refer to the correspondence file for information regarding these changes. A Draft Addendum to the approved Engineering Assessment, covering these changes, has been included with this submittal and will be submitted to the District for review and approval.

INDIANA DEPARTMENT OF TRANSPORTATION

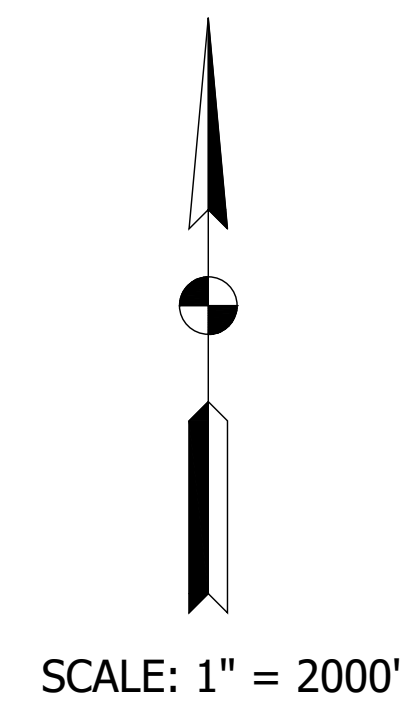
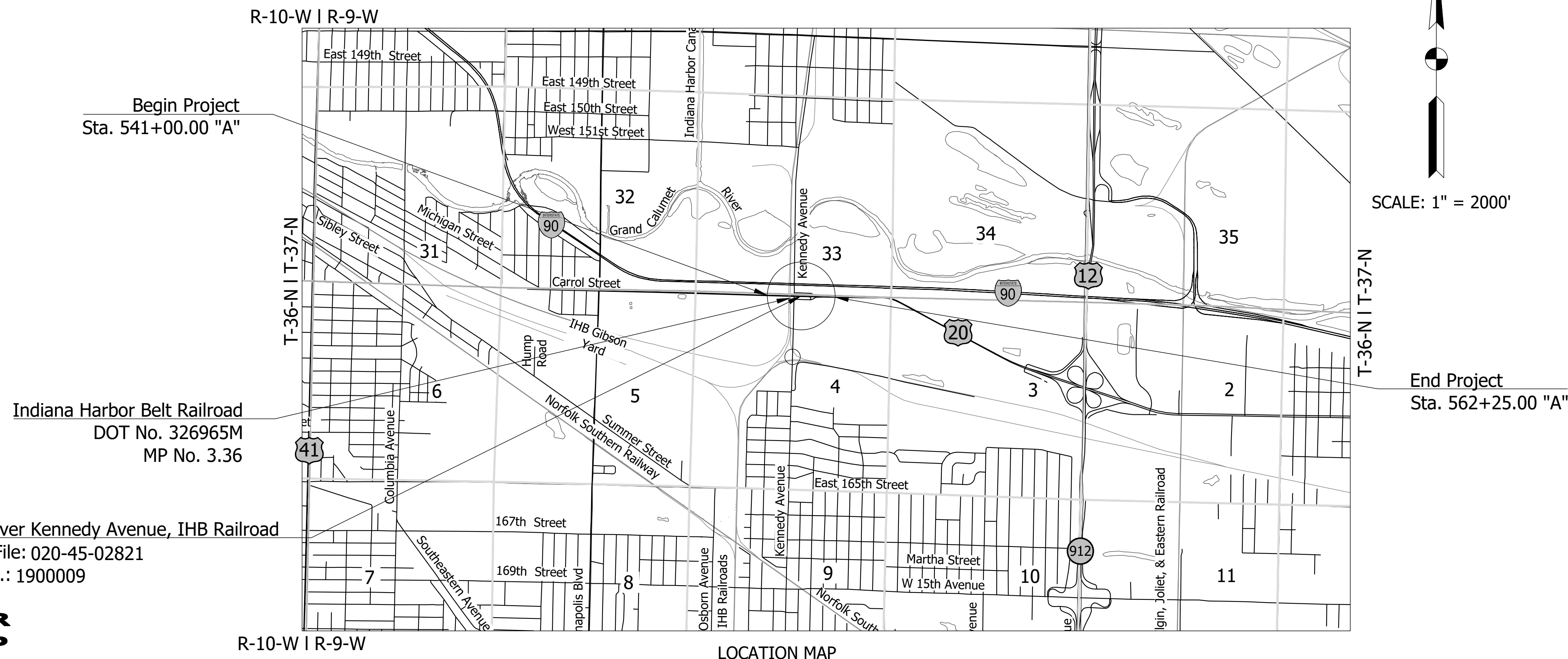


BRIDGE PLANS FOR SPANS OVER 20 FEET

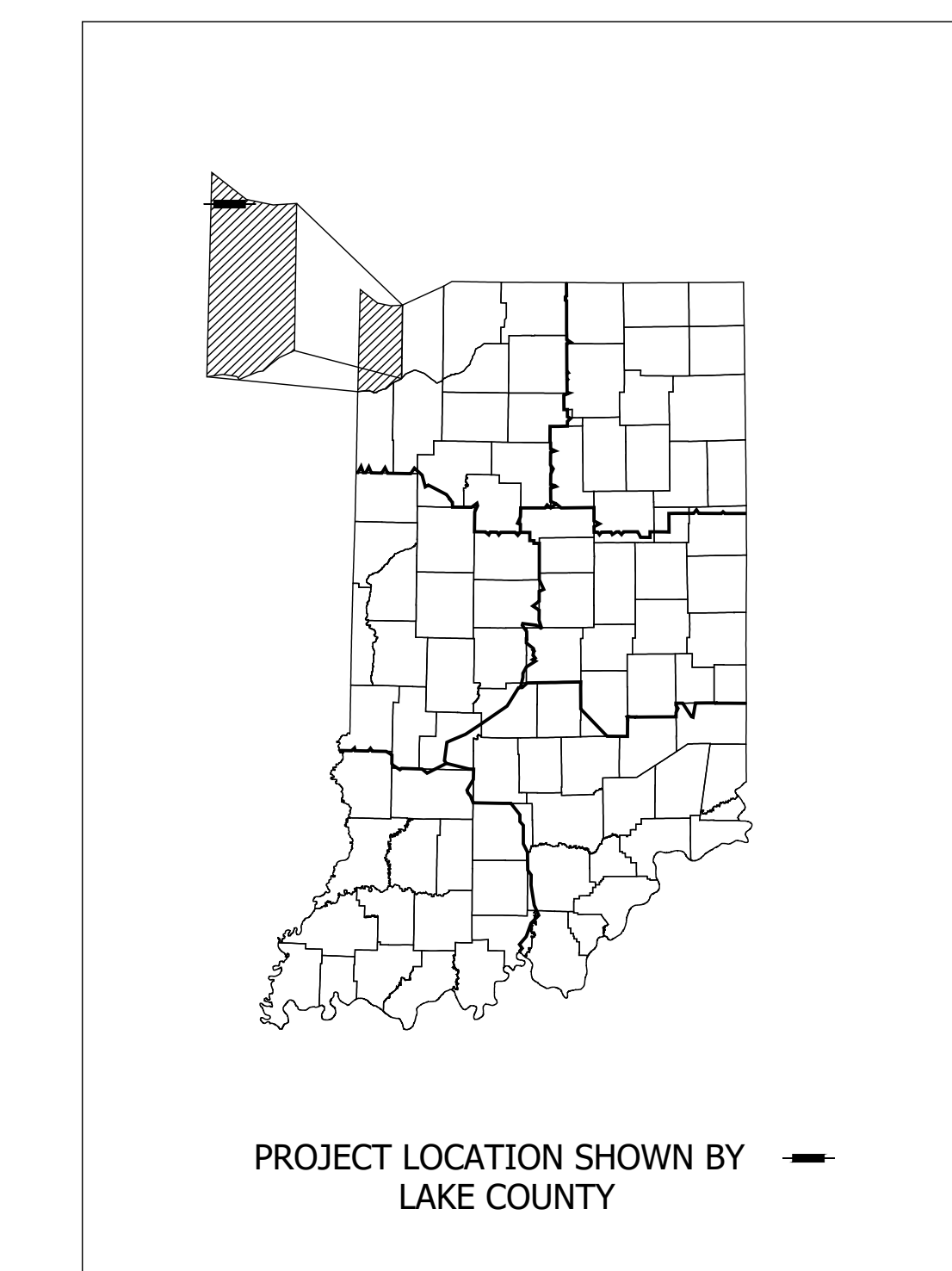
ROUTE: US 20 AT: RP 8+17

PROJECT NO. 1900009 P.E.
1900009 R/W
1900009 CONST.

Bridge Replacement on US 20 over Kennedy Avenue & IHB Railroad
Located 0.99 miles East of SR 152
Section 4, T-36-N & Section 33, T-37-N, R-9-W, North Township, Lake County



TRAFFIC DATA		US 20	
A.A.D.T.	(2024)	14,950	V.P.D.
A.A.D.T.	(2044)	15,307	V.P.D.
D.H.V	(2044)	1,375	V.P.H.
DIRECTIONAL DISTRIBUTION		53.86	%
TRUCKS		7.28	% A.A.D.T.
		3.59	% D.H.V.
TRAFFIC DATA		KENNEDY AVE.	
A.A.D.T.	(2024)	13,760	V.P.D.
A.A.D.T.	(2044)	16,790	V.P.D.
D.H.V	(2044)	1,707	V.P.H.
DIRECTIONAL DISTRIBUTION		50.00	%
TRUCKS		1.00	% D.H.V.
DESIGN DATA			
DESIGN SPEED	45 M.P.H.		
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)		
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL		
RURAL/URBAN	URBAN (BUILT-UP)		
TERRAIN	LEVEL		
ACCESS CONTROL	NONE		



LATITUDE: 41° 36' 36" N LONGITUDE: 87° 27' 42" W

BRIDGE LENGTH:	0.042	MI.
ROADWAY LENGTH:	0.360	MI.
TOTAL LENGTH:	0.402	MI.
MAX. GRADE:	6.66	%

HUC12: 040400010604

STAGE 2 PLAN SUBMITTAL
November 21, 2023

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2024
TO BE USED WITH THESE PLANS

112 West Jefferson Blvd, Suite 500
South Bend, Indiana 46601
Phone: 574.334.5460

PLANS PREPARED BY: _____ (---) _____ PHONE NUMBER _____

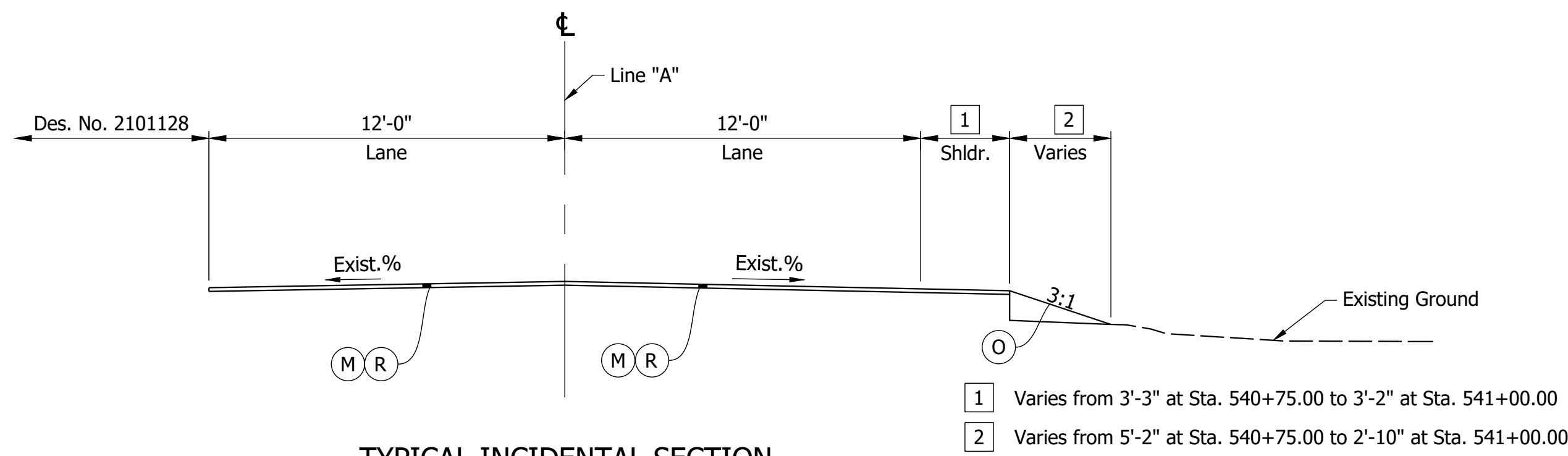
CERTIFIED BY: _____ DATE: --/--

APPROVED FOR LETTING: _____ DATE: _____

INDIANA DEPARTMENT OF TRANSPORTATION

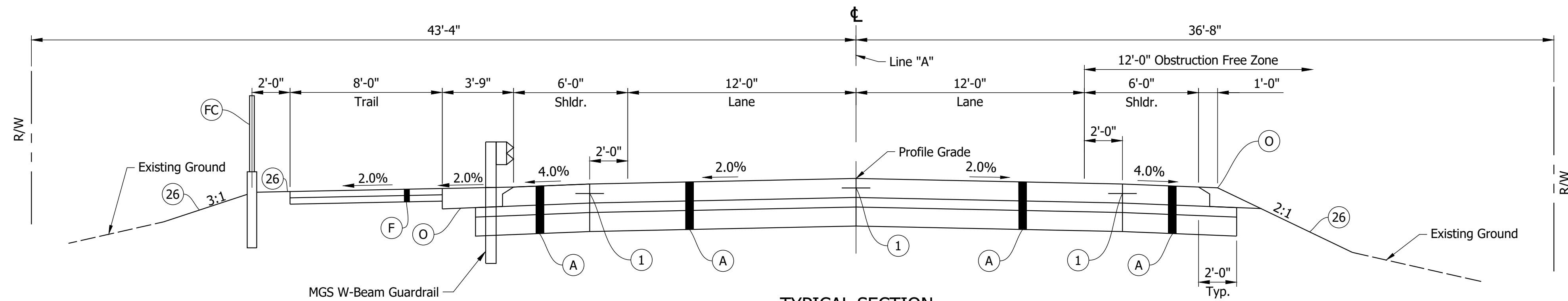
BRIDGE FILE	020-45-02821	
DESIGNATION	1900009	
SURVEY BOOK	1	of 76
ELECTRONIC		
CONTRACT	B-43636	
SHEETS	PROJECT 1900009	

Date: Nov 21, 2023, 5:14pm User Name: Randy Killbase File: X:\Production\Files\2019\19-0350\CAD\Plans\SH Title.dwg



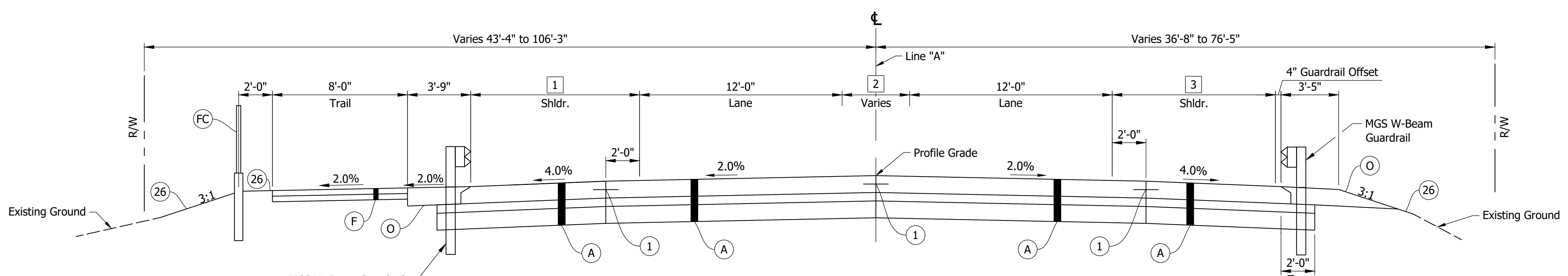
TYPICAL INCIDENTAL SECTION

Sta. 540+75.00 Line "A" To Sta. 541+00.00 Line "A"



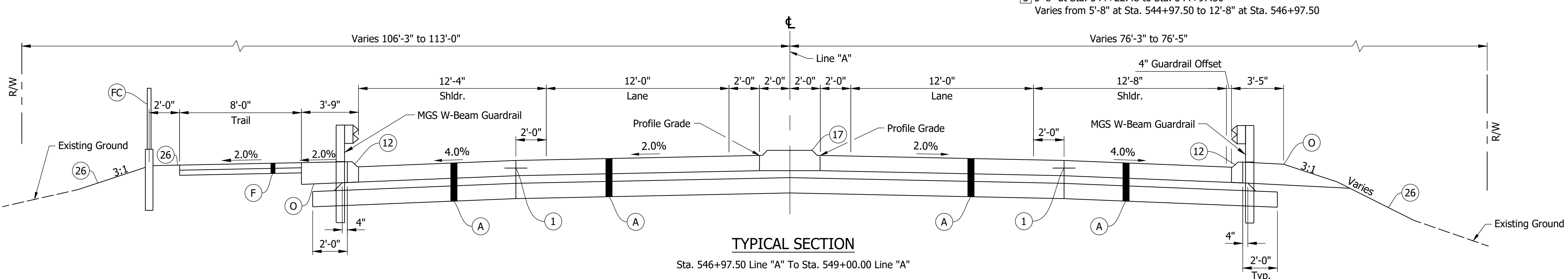
TYPICAL SECTION

Sta. 541+00.00 Line "A" To Sta. 544+22.48 Line "A"



TYPICAL SECTION

Sta. 544+22.48 Line "A" To Sta. 546+97.50 Line "A"



TYPICAL SECTION

Sta. 546+97.50 Line "A" To Sta. 549+00.00 Line "A"

NOTE:
See Sheet 6 for curb and median details.

- LEGEND:**
- (A) 12 in. QC/QA PCCP on Dense Graded Subbase, 6 in., on Subgrade Treatment, Type IC
 - (F) Trail, Consisting of: PCCP, 4 in. on Compacted Aggregate No. 53 (4 in.) on Subgrade Treatment, Type III
 - (FC) Fence, Chain Link, PVC Coated, 48 in.
 - (M) Milling, Asphalt, 1.5 in.
 - (O) Compacted Aggregate, No. 53
 - (R) 165 lbs/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm
 - (1) Longitudinal Construction Joint
 - (12) Curb, Type B, Integral Concrete
 - (17) Center Curb, Type B, Concrete, Modified
 - (26) Sodding, Nursery

Date: Nov 21, 2023, 5:15pm User Name: Randy Killbase File: X:\Production\Files\20191219-0350\CAD\Misc\DWG\12190350 Typical Sections.dwg

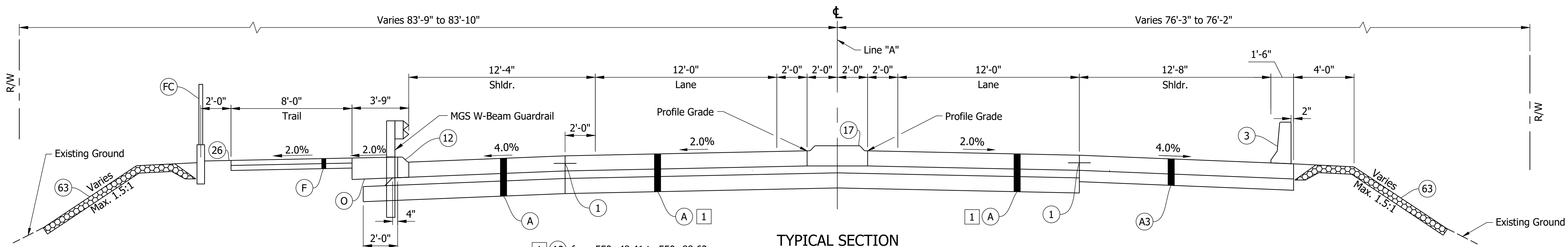
PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: DJM	DRAWN: DJM	11/21/2023
CHECKED: BSS	CHECKED: BJS	

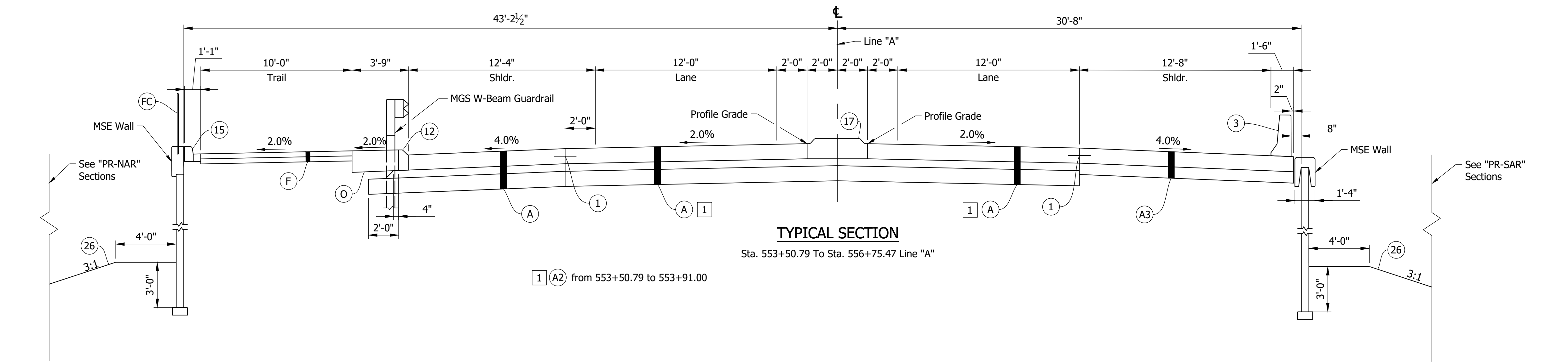
INDIANA DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

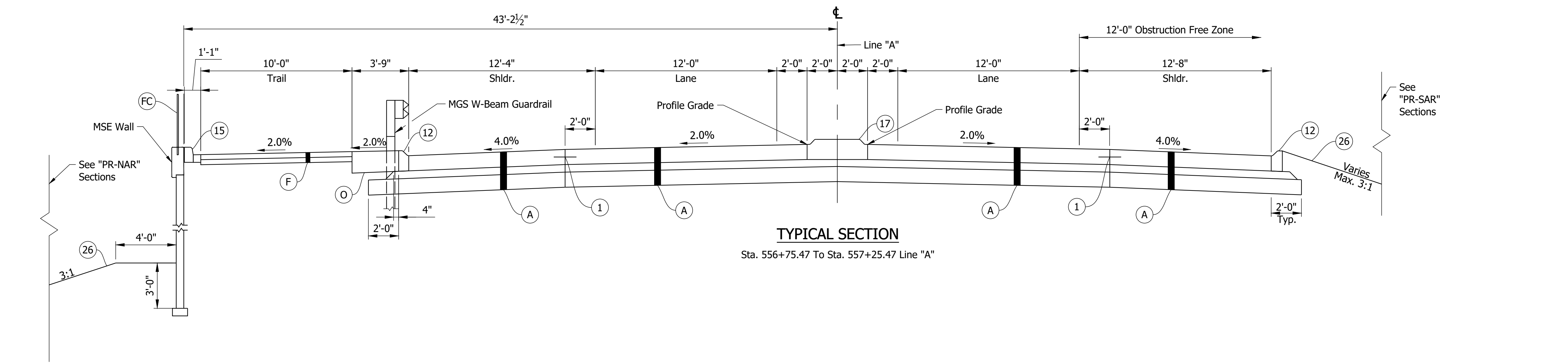
HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	020-45-02821
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	3 of 76
CONTRACT	PROJECT
B-43636	1900009



TYPICAL SECTION
Sta. 549+00.00 To Sta. 550+88.62 Line "A"



TYPICAL SECTION
Sta. 553+50.79 To Sta. 556+75.47 Line "A"



TYPICAL SECTION
Sta. 556+75.47 To Sta. 557+25.47 Line "A"

NOTE:
See Sheet 6 for curb and median details.

- LEGEND:**
- (A) 12 in. QC/QA PCCP on Dense Graded Subbase, 6 in., on Subgrade Treatment, Type IC
 - (A1) 12 in. PCCP on 6 in. Dense Graded Subbase on Subgrade Treatment, Type IC
 - (A2) Jointed Reinforced Concrete Pavement 12 in. on 9" Subbase for PCCP on Subgrade Treatment, Type IC
 - (A3) 12 in. Reinforced Concrete Moment Slab on 9 in. Compacted Aggregate No. 8
 - (F) Trail, Consisting of: PCCP, 4 in. on Compacted Aggregate No. 53 (4 in.) on Subgrade Treatment, Type III
 - (FC) Fence, Chain Link, PVC Coated, 48 in.
 - (1) Longitudinal Construction Joint
 - (3) FC Concrete Railing
 - (12) Curb, Type B, Integral Concrete
 - (15) Curb, Integral Concrete
 - (17) Center Curb, Type B, Concrete, Modified
 - (63) 6 in. Geocell on Geotextile for Subgrade, Type 2B

Date: Nov 21, 2023, 5:15pm User Name: Randy Killbase File: X:\Production\Files\20191219-0350\CAD\Misc\DWG\190350 Typical Sections.dwg

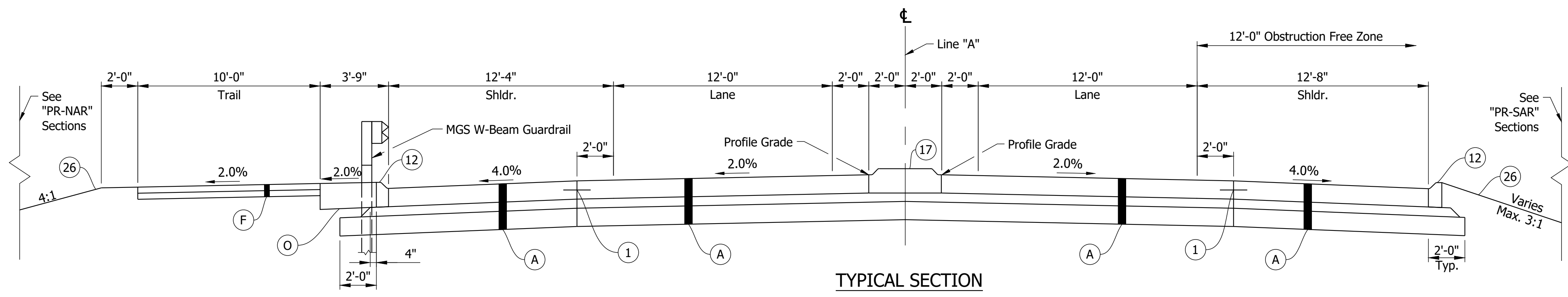
PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: DJM	DRAWN: DJM	
CHECKED: BSS	CHECKED: BJS	

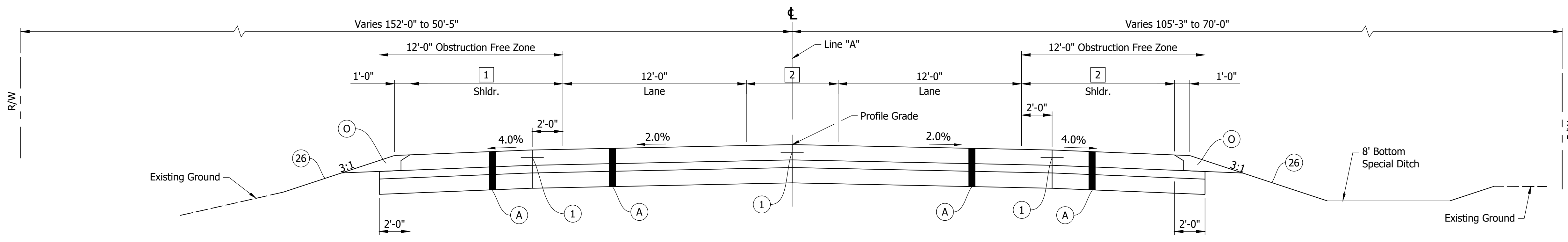
**INDIANA
DEPARTMENT OF TRANSPORTATION**

TYPICAL CROSS SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	020-45-02821
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	4 of 76
CONTRACT	PROJECT
B-43636	1900009



TYPICAL SECTION
Sta. 557+25.47 To Sta. 559+50.00 Line "A"

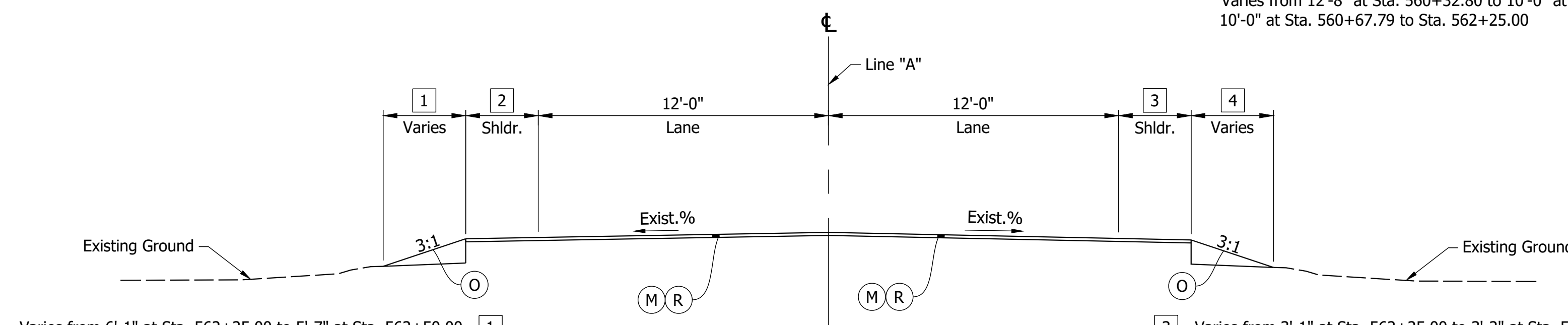


TYPICAL SECTION
Sta. 559+50.00 Line "A" To Sta. 562+25.00 Line "A"

12'-4" at Sta. 559+50.00 to Sta. 561+42.87 [1]
Varies from 12'-4" at Sta. 561+42.87 to 10'-0" at Sta. 561+89.50
10'-0" at Sta. 561+89.50 to Sta. 562+25.00

[2] Varies from 8'-0" at Sta. 559+50.00 to 0'-0" Sta. 562+21.45
0'-0" at Sta. 562+21.45 to Sta. 562+25.00

[3] 12'-8" at Sta. 559+50.00 to Sta. 560+32.80
Varies from 12'-8" at Sta. 560+32.80 to 10'-0" at Sta. 560+67.79
10'-0" at Sta. 560+67.79 to Sta. 562+25.00



TYPICAL INCIDENTAL SECTION
Sta. 562+25.00 Line "A" To Sta. 562+50.00 Line "A"

Varies from 6'-1" at Sta. 562+25.00 to 5'-7" at Sta. 562+50.00 [1]
Varies from 3'-11" at Sta. 562+25.00 to 3'-10" at Sta. 562+50.00 [2]

[3] Varies from 3'-1" at Sta. 562+25.00 to 3'-2" at Sta. 562+50.00
[4] Varies from 6'-11" at Sta. 562+25.00 to 5'-6" at Sta. 562+50.00

NOTE:
See Sheet 6 for curb and median details.

- LEGEND:**
- (A) 12 in. QC/QA PCCP on Dense Graded Subbase, 6 in., on Subgrade Treatment, Type IC
 - (F) Trail, Consisting of: PCCP, 4 in. on Compacted Aggregate No. 53 (4 in.) on Subgrade Treatment, Type III
 - (M) Milling, Asphalt, 1.5 in.
 - (O) Compacted Aggregate, No. 53
 - (R) 165 lbs/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm
 - (1) Longitudinal Construction Joint
 - (12) Curb, Type B, Integral Concrete
 - (17) Center Curb, Type B, Concrete, Modified

Date: Nov 21, 2023, 5:15pm User Name: Randy Killbase File: X:\Production\Files\20191219-0350\CAD\Misc\DWG\12190350 Typical Sections.dwg

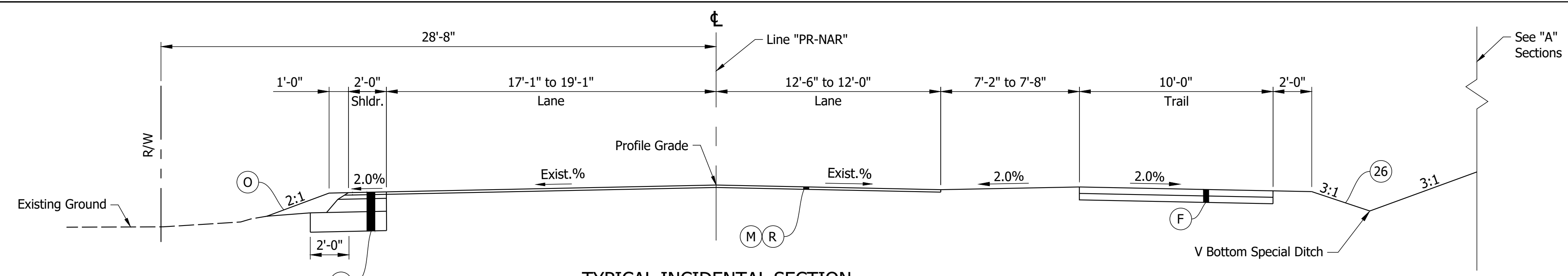
PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: DJM	DRAWN: DJM	11/21/2023
CHECKED: BSS	CHECKED: BJS	

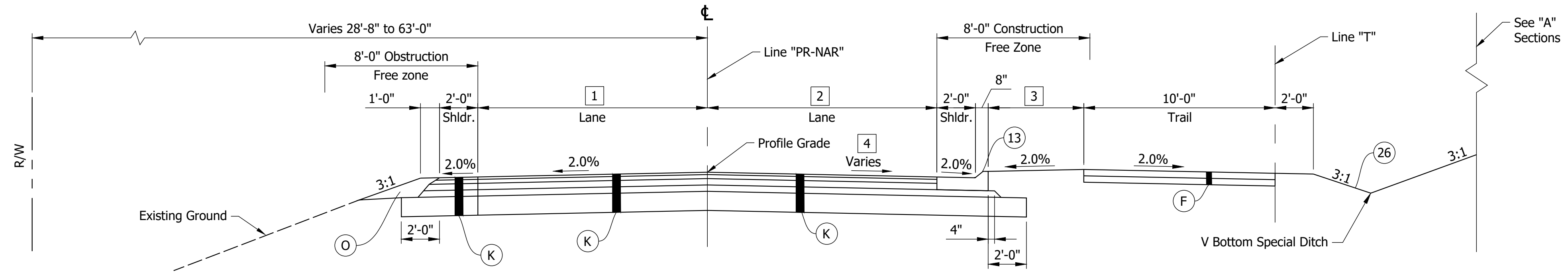
INDIANA DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

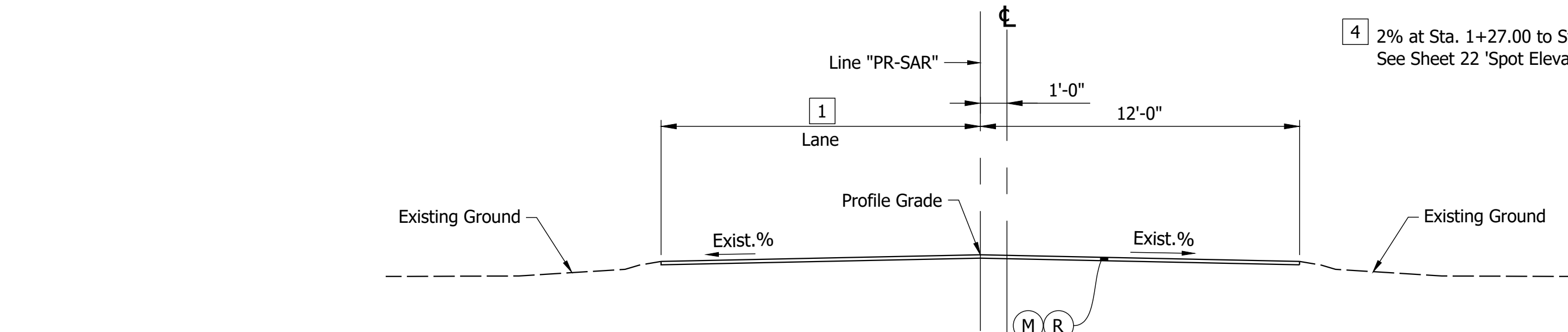
HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	020-45-02821
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	5 of 76
CONTRACT	PROJECT
B-43636	1900009



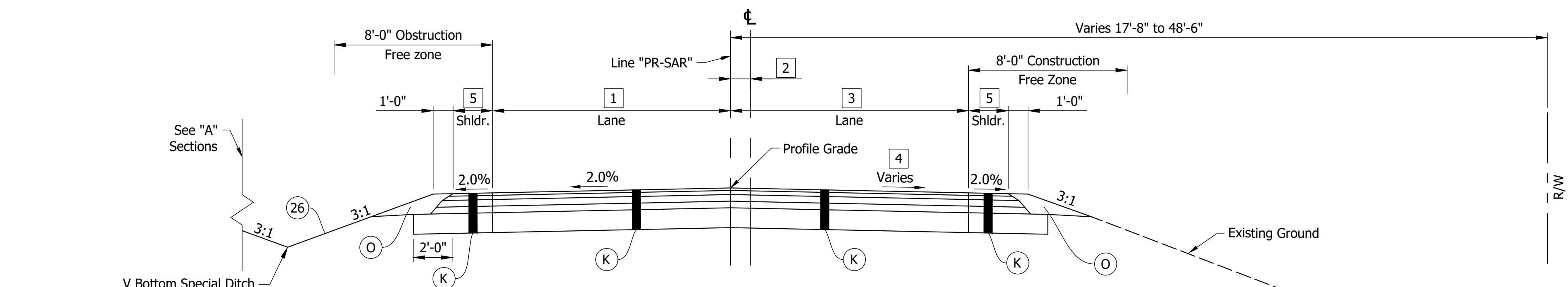
TYPICAL INCIDENTAL SECTION
Sta. 1+02.00 To Sta. 1+27.00 Line "PR-NAR"



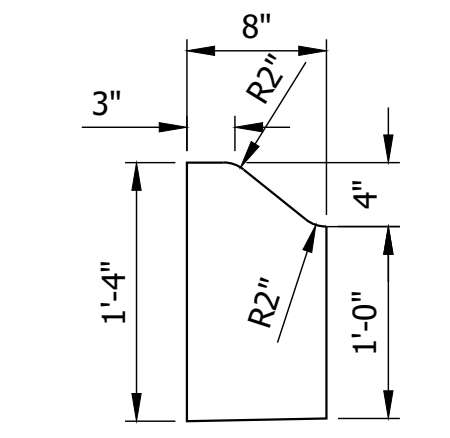
TYPICAL SECTION
Sta. 1+27.00 Line "PR-NAR" To Sta. 5+06.82 Line "PR-NAR"



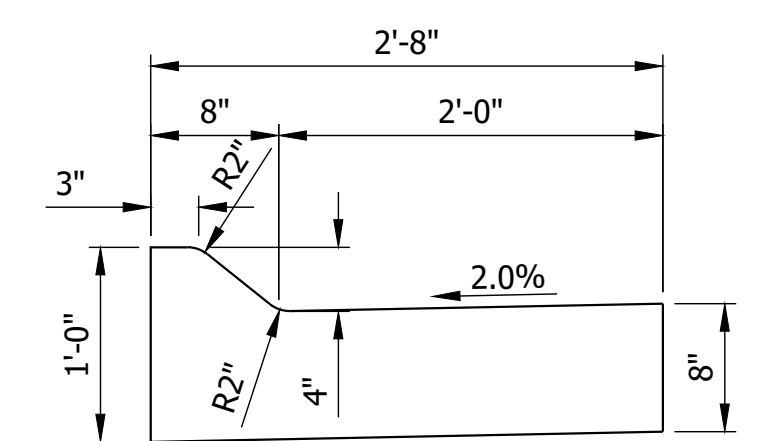
TYPICAL INCIDENTAL SECTION
Sta. 1+44.00 To Sta. 1+69.00 Line "PR-SAR"



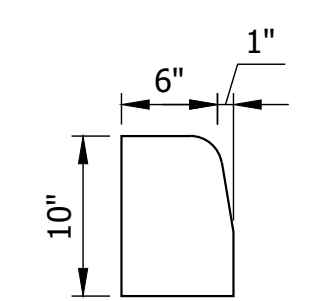
TYPICAL SECTION
Sta. 1+69.00 Line "PR-SAR" To Sta. 5+55.09 Line "PR-SAR"



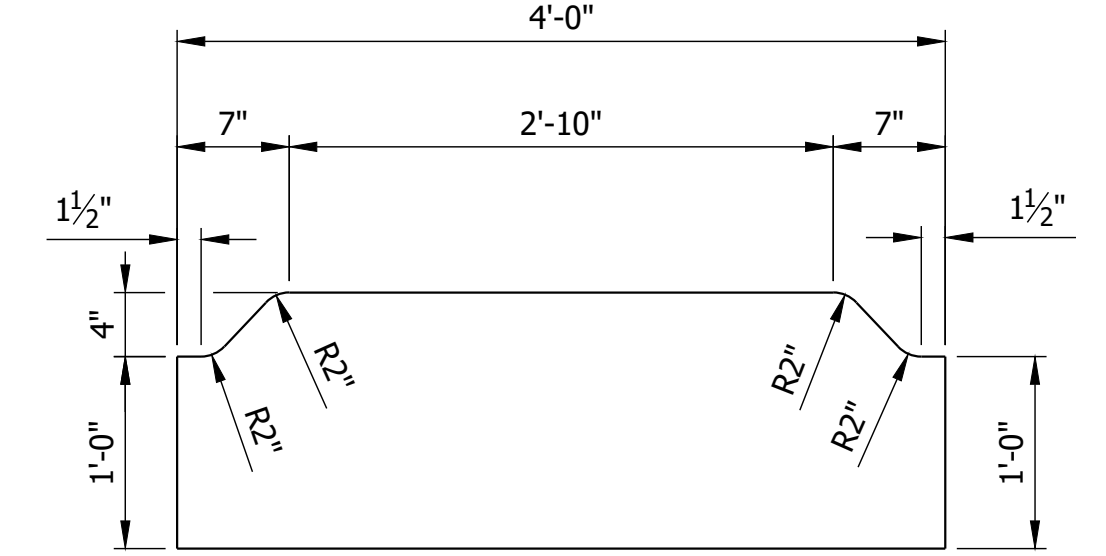
12 CURB DETAIL
Integral Concrete Curb, Type B
(4" Curb Reveal)
Scale: 1" = 1'



13 CURB DETAIL
Concrete Curb and Gutter, Type B
(8" Depth)
Scale: 1" = 1'



15 CURB DETAIL
Integral Concrete Curb
(6" Reveal)
Scale: 1" = 1'



17 CURB DETAIL
Center Curb, Type B, Concrete, Modified
(1' Depth)
Scale: 1" = 1'

- 1 Varies from 19.10' at Sta. 1+27.00 to 12'-0" at Sta. 2+28.28
12'-0" at Sta. 2+28.28 to Sta. 5+06.82
- 2 12'-0" at Sta. 1+27.00 to Sta. 4+45.93
Varies from 12'-0" at Sta. 4+45.49 to 15'-0" at Sta. 5+06.82
- 3 5'-0" at Sta. 1+27.00 to Sta. 4+75.58
Path curve to Line "A" begins at Sta. 4+75.58
- 4 2% at Sta. 1+27.00 to Sta. 3+62.00
See Sheet 22 'Spot Elevation Detail' for Sta. 3+62.00 to 5+06.82

- LEGEND:**
- (F) Trail, Consisting of:
PCCP, 4 in. on
Compacted Aggregate No. 53 (4 in.) on
Subgrade Treatment, Type III
 - (K) 165 lbs/syd QC/QA HMA, 3, 70, Surface, 9.5mm on
275 lbs/syd QC/QA HMA, 3, 70, Intermediate, 19mm on
880 lbs/syd QC/QA HMA, 3, 64, Base, 25mm on
Subgrade Treatment, Type IC
 - (M) Milling, Asphalt, 1.5 in.
 - (O) Compacted Aggregate, No. 53
 - (R) 165 lbs/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm
 - (W) 165 lbs/syd QC/QA HMA, 3, 70, Surface, 9.5mm on
Widening with HMA, Type D, consisting of:
275 lbs/syd QC/QA HMA, 3, 70, Intermediate, 19mm on
880 lbs/syd QC/QA HMA, 3, 64, Base, 25mm on
Subgrade Treatment, Type IC
 - (13) Concrete Curb and Gutter,
Type B

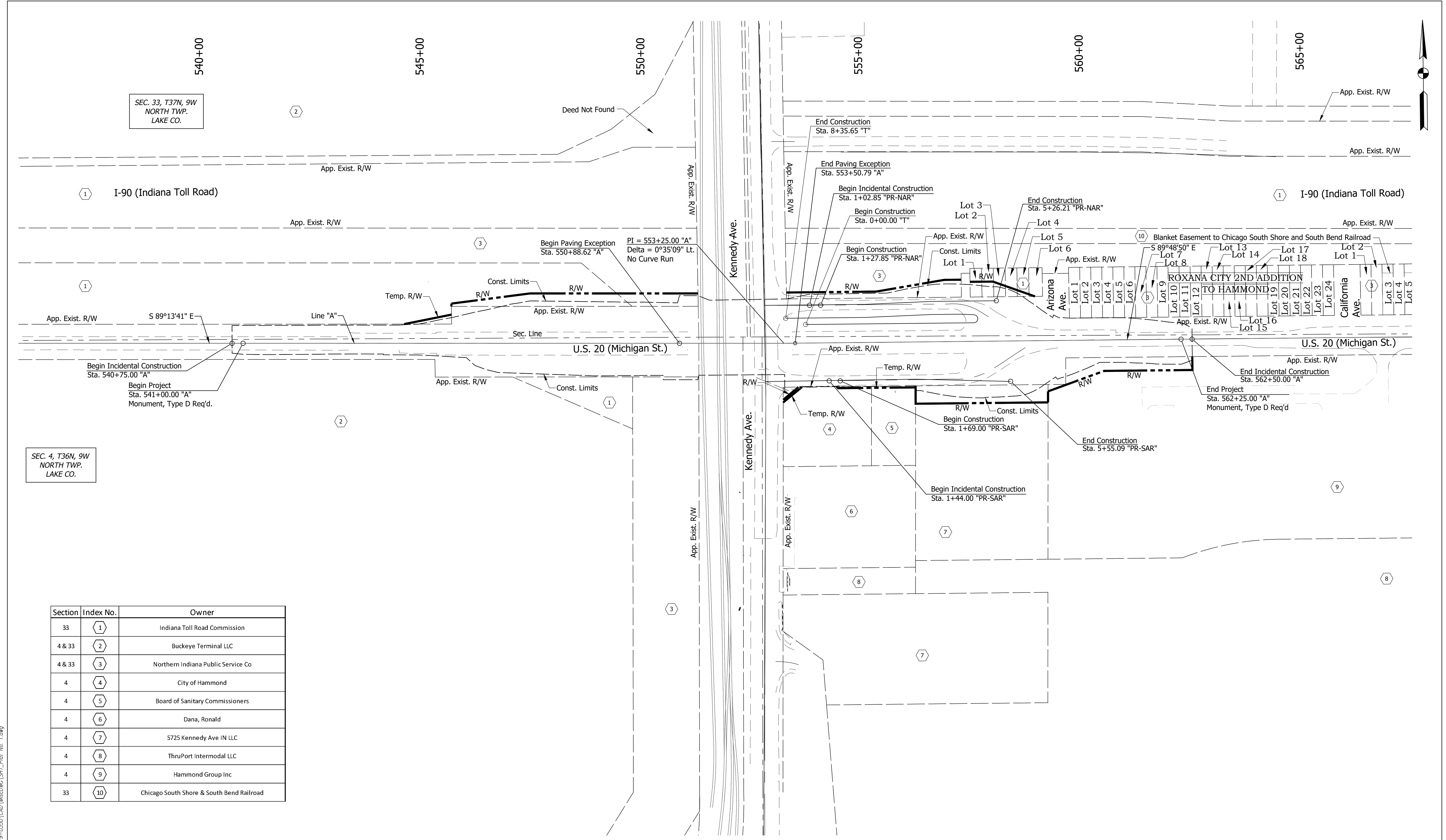
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE 11/21/2023
DESIGNED: _____	DRAWN: _____	
CHECKED: _____	CHECKED: _____	

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	020-45-02821
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	6 of 76
CONTRACT	PROJECT
B-43636	1900009

Date: Nov 21, 2023, 5:16pm User Name: Randy Killbase
File: X:\Production\Files\20191219-0350\CAD\Misc\DWG\12190350 Typical Sections.dwg



SEC. 33, T37N, 9W
NORTH TWP.
LAKE CO.

SEC. 4, T36N, 9W
NORTH TWP.
LAKE CO.

Section	Index No.	Owner
33	1	Indiana Toll Road Commission
4 & 33	2	Buckeye Terminal LLC
4 & 33	3	Northern Indiana Public Service Co
4	4	City of Hammond
4	5	Board of Sanitary Commissioners
4	6	Dana, Ronald
4	7	5725 Kennedy Ave IN LLC
4	8	ThruPort Intermodal LLC
4	9	Hammond Group Inc
33	10	Chicago South Shore & South Bend Railroad

Date: Nov 21, 2023, 5:16pm User Name: RandyKilbuse
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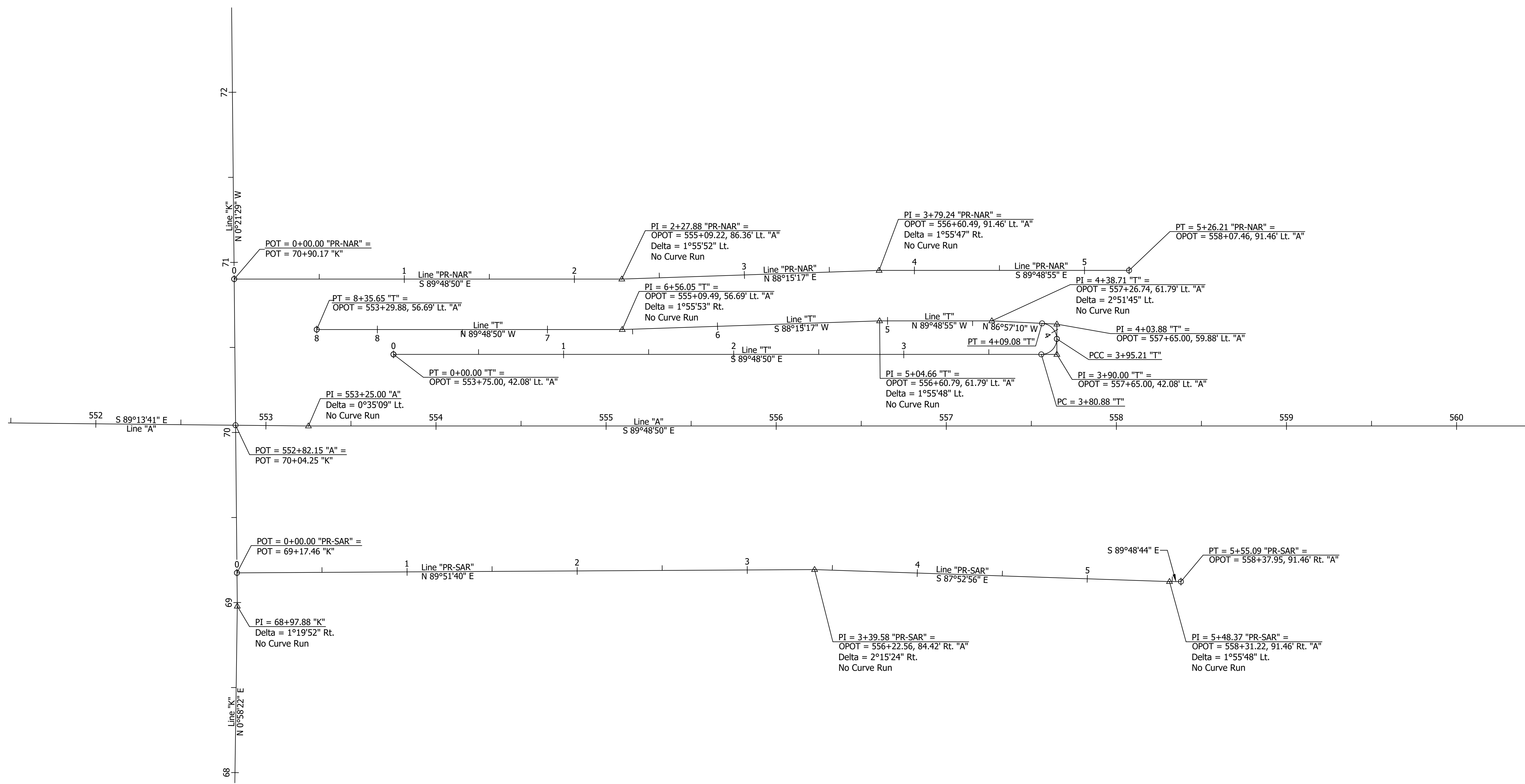
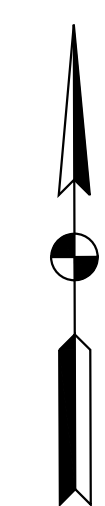
PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
	MMT	11/21/2023
DESIGNED:	DRAWN:	
MMT	MMT	
CHECKED:	CHECKED:	
BSS	BJS	

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAT NO. 1

HORIZONTAL SCALE	BRIDGE FILE
1" = 100'	020-45-02821
VERTICAL SCALE	DESIGNATION
N/A	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	7 of 76
CONTRACT	PROJECT
B-43636	1900009



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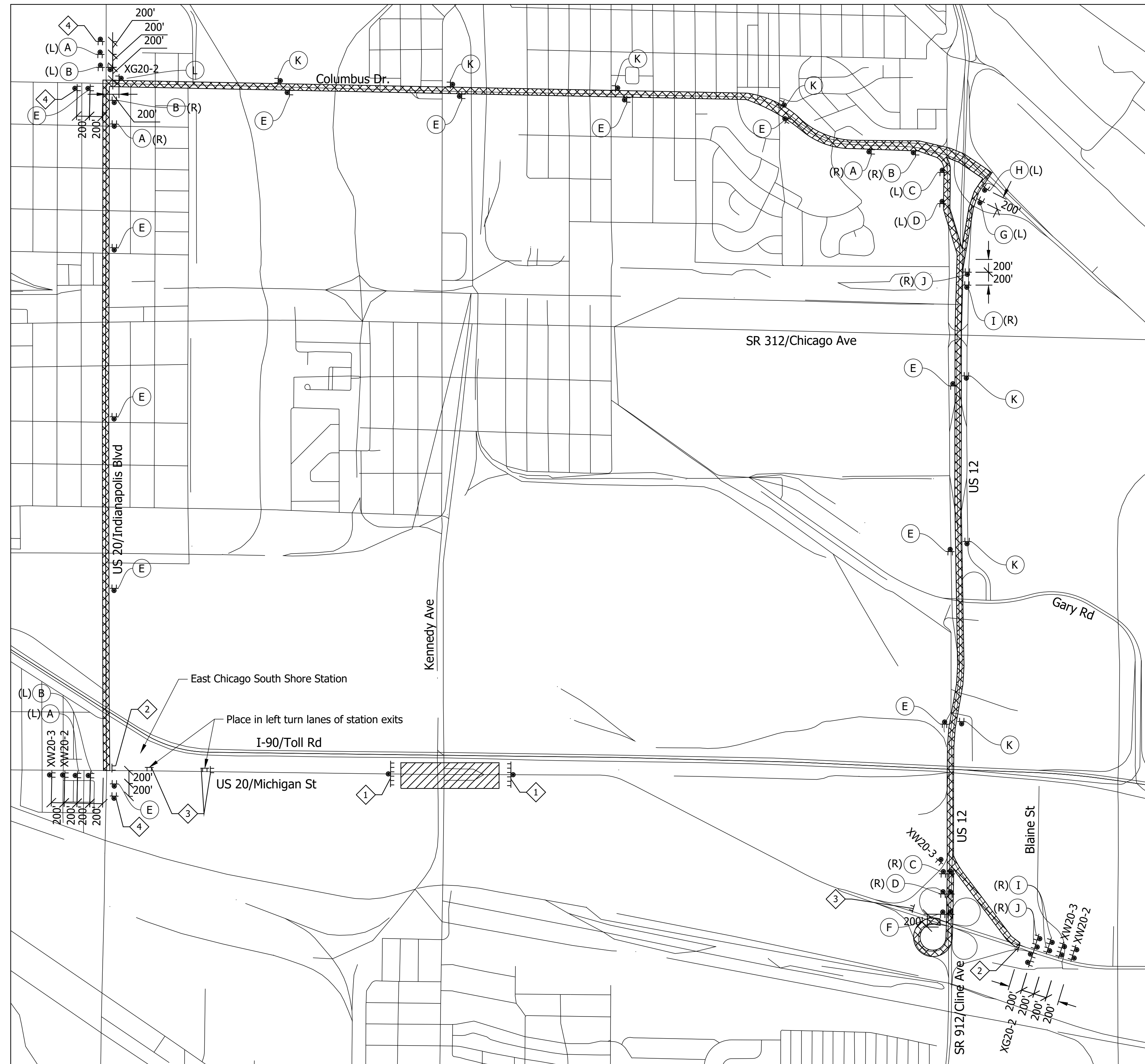
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 NOT FOR CONSTRUCTION
 DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: MJO	DRAWN: BJS	
CHECKED: BSS	CHECKED: BJS	

INDIANA
 DEPARTMENT OF TRANSPORTATION

GEOMETRIC TIE-UP SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	020-45-02821
VERTICAL SCALE	DESIGNATION
N/A	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	8 of 76
CONTRACT	PROJECT
B-43636	1900009



Detour Route
Scale: 1" = 1000'

Date: Nov 21, 2023, 5:17pm User Name: Randy Kilbase
File: X:\Production\Files\20191219-0350\CAD\MOT\Detour.dwg

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: DJM	DRAWN: DJM	
CHECKED: BSS	CHECKED: BJS	

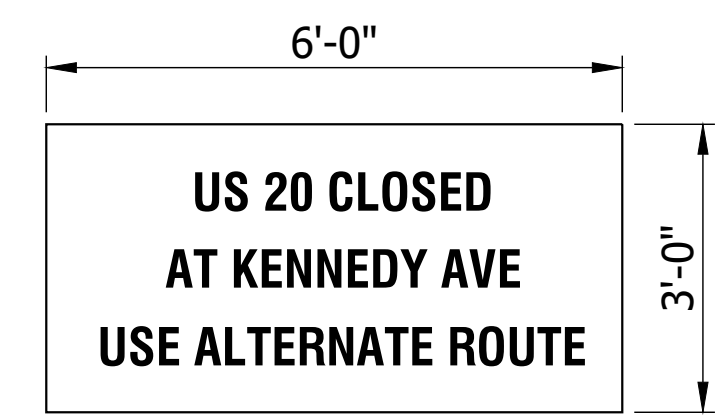
INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
US 20 DETOUR

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	020-45-02821
VERTICAL SCALE	DESIGNATION
N/A	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	9 of 76
CONTRACT	PROJECT
B-43636	1900009

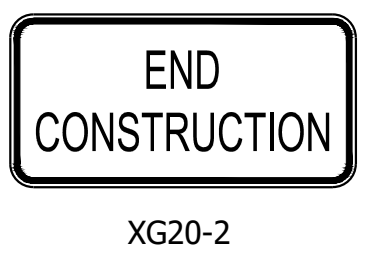
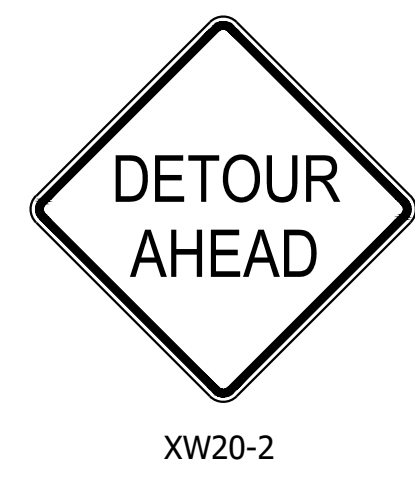
LEGEND

- CONSTRUCTION ZONE
- DETOUR ROUTE
- ROAD CLOSURE SIGN ASSEMBLY W/ TYPE III-A BARRICADE (60 LFT.) AND R11-2 SIGN
- ROAD CLOSURE SIGN ASSEMBLY W/ TYPE III-B BARRICADE (12 LFT.) AND R11-4 SIGN AND XM4-10 (L OR R)
- ROAD CLOSURE SIGN ASSEMBLY W/ TYPE III-B BARRICADE (12 LFT.) AND R11-4 SIGN



SPE-1
LETTER SERIES: D, LETTER SIZE: 4"
BLACK LEGEND & BORDER W/ ORANGE BACKGROUND

<p>(A)</p> <p>XM4-8 M3-2 M1-4 M5-1 (R or L)</p>	<p>(B)</p> <p>XM4-8 M3-2 M1-4 M6-1 (R or L)</p>	<p>(C)</p> <p>XM4-8 M3-2 M1-4 M5-2 (R or L)</p>	<p>(D)</p> <p>XM4-8 M3-2 M1-4 M6-2 (R or L)</p>	<p>(E)</p> <p>XM4-8 M3-2 M1-4 M6-3 (R or L)</p>	<p>(F)</p> <p>XM4-8a M3-4 M1-4 M6-1 (R)</p>
<p>(G)</p> <p>XM4-8 M3-4 M1-4 M5-1 (R or L)</p>	<p>(H)</p> <p>XM4-8 M3-4 M1-4 M6-1 (R or L)</p>	<p>(I)</p> <p>XM4-8 M3-4 M1-4 M5-2 (R or L)</p>	<p>(J)</p> <p>XM4-8 M3-4 M1-4 M6-2 (R or L)</p>	<p>(K)</p> <p>XM4-8 M3-4 M1-4 M6-3 (R or L)</p>	<p>(L)</p> <p>XM4-8a M3-4 M1-4 M5-2 (R)</p>



GENERAL NOTES

- All maintenance of traffic devices, signs and pavement markings shall conform to the latest edition of the Indiana MUTCD.
- See INDOT Std. Drwg. 801-TCDD-01 for sign spacing requirements and additional notes.
- For detour route marker assemblies, see INDOT Std. Drwg. 801-TCDD-03.
- See INDOT Std. Drwg. 801-TCLG-01 for standard notes.
- Type B construction warning lights shall be used with all signs located on barricades. Type A construction warning lights shall be used on all other construction signs.
- Road closures to be warned at least one week in advance utilizing XG20-5 sign, reading "US 20 CLOSED AFTER MM/DD"

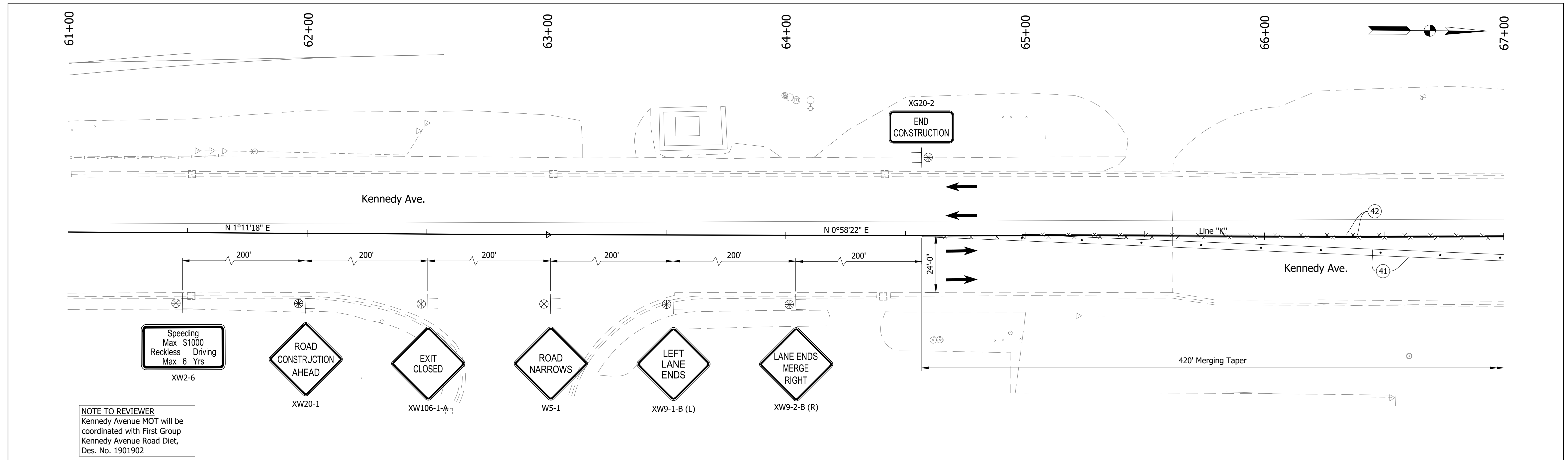
CONSTRUCTION SIGN SCHEDULE

SIGN NO.	DESCRIPTION	SIZE (IN)	TYPE	QUANTITY
XW20-2	"DETOUR AHEAD" SIGN	36 x 36	A	3
XW20-3	"ROAD CLOSED AHEAD" SIGN	36 x 36	A	3
XG20-2	"END CONSTRUCTION"	60 x 24	A	2
XG20-5	"US 20 CLOSED AFTER MM/DD"	60 x 36	A	4
SPE-1	"US 20 CLOSED AT KENNEDY AVE USE ALTERNATE ROUTE" SIGN	36 x 72	C	3

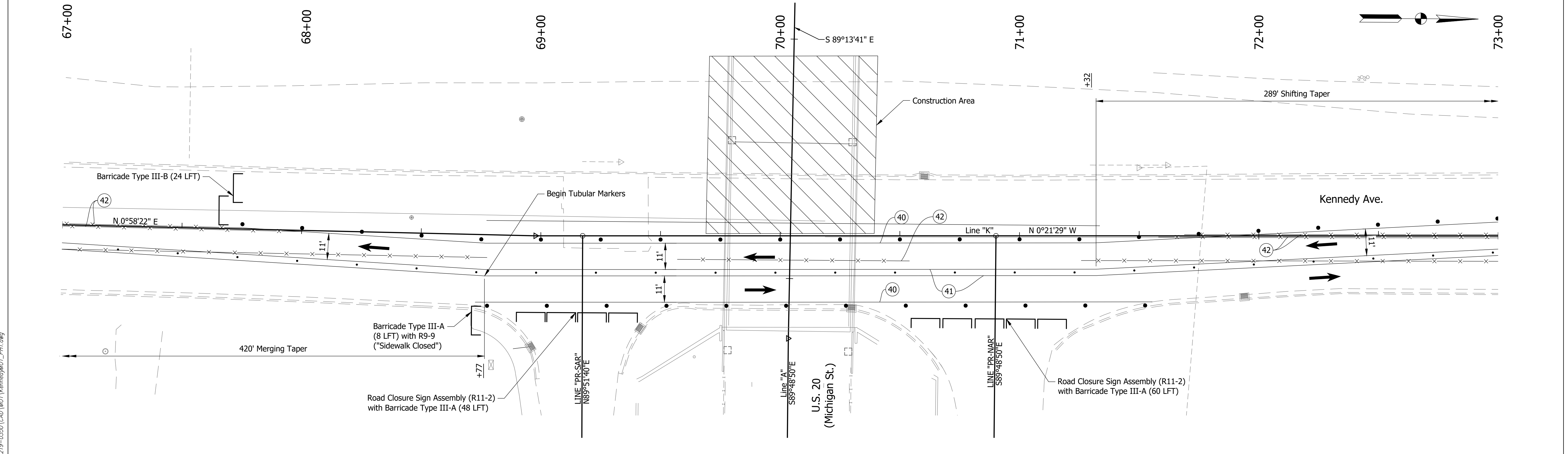
Detour Route Marker Assemblies: 43 Req'd
Road Closure Sign Assemblies: 8 Req'd
Type III-A Barricades: 120 Lft.
Type III-B Barricades: 72 Lft.

TOTAL TYPE "A" SIGNS	12
TOTAL TYPE "C" SIGNS	3

*Included with road closure sign assembly.



NOTE TO REVIEWER
 Kennedy Avenue MOT will be coordinated with First Group Kennedy Avenue Road Diet, Des. No. 1901902



Legend

- Construction Barrels
- (40) Temporary Pavement Marking, Removable, White, 4 in.
- Tubular Markers
- (41) Temporary Pavement Marking, Removable, Yellow, 4 in.
- Barricades
- (42) Temporary Pavement Marking, Removable, Black, 5 in.
- Line, Remove

Worksite Speed Limit: 35 mph
 Construction Zone Design Speed: 35 mph

PRELIMINARY
 NOT FOR CONSTRUCTION
 DATE: 11/21/2023

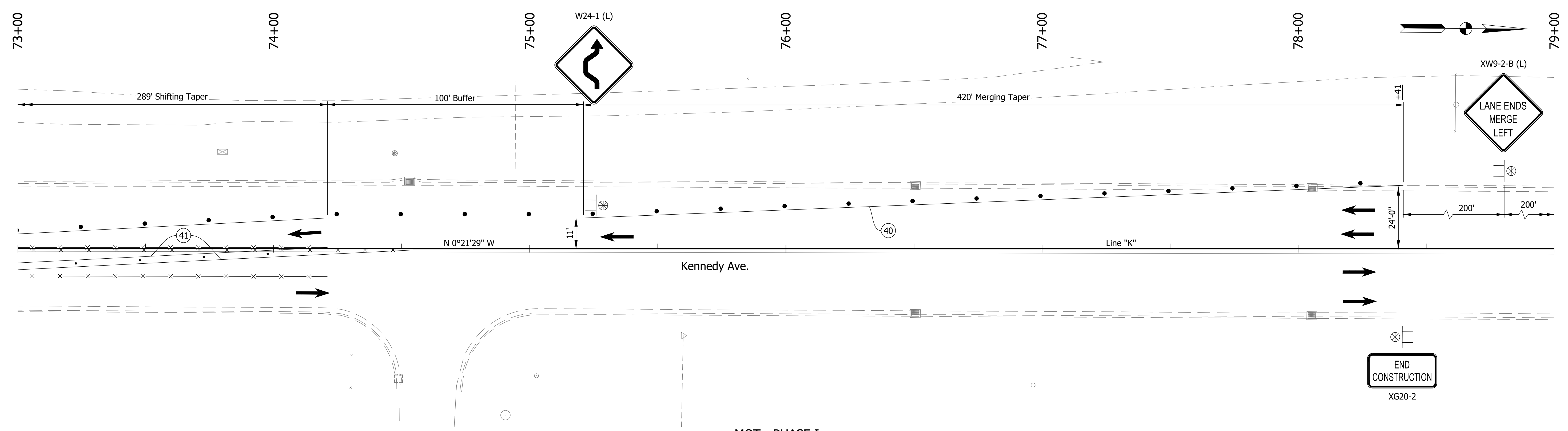
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
	DJM	11/21/2023
DESIGNED:	DJM	DRAWN:
CHECKED:	BSS	CHECKED:
		BJS

INDIANA
 DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC
 PHASE I

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	020-45-02821
VERTICAL SCALE	DESIGNATION
N/A	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	10 of 76
CONTRACT	PROJECT
B-43636	1900009

Date: Nov 21, 2023, 5:17pm User Name: RandyAlbouse
 File: X:\Production\Files\2019\219-0350\CAD\MOT\KennedyMOT_P11.dwg

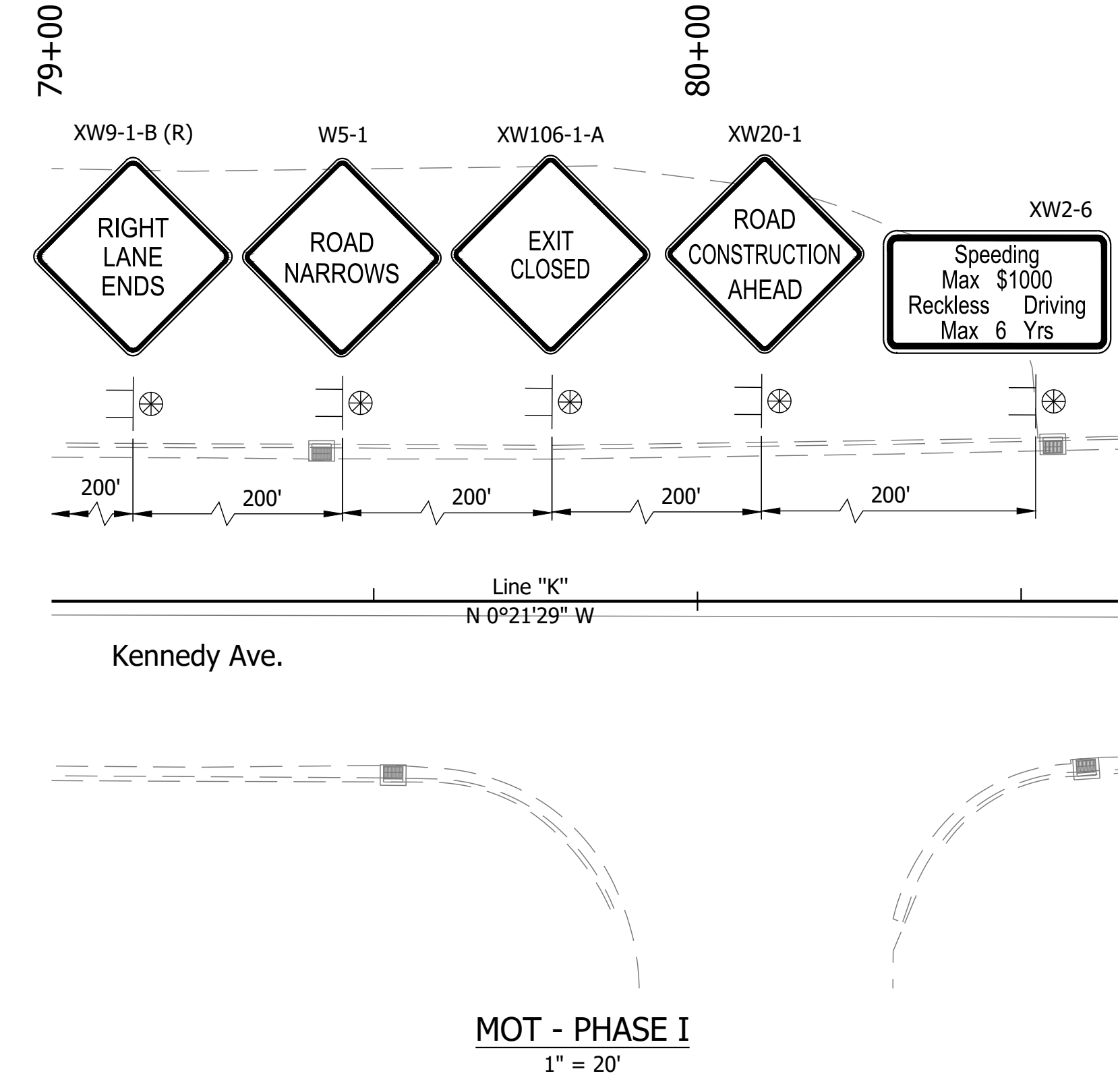
Date: Nov 21, 2023, 5:17pm User Name: RandyAlbouse
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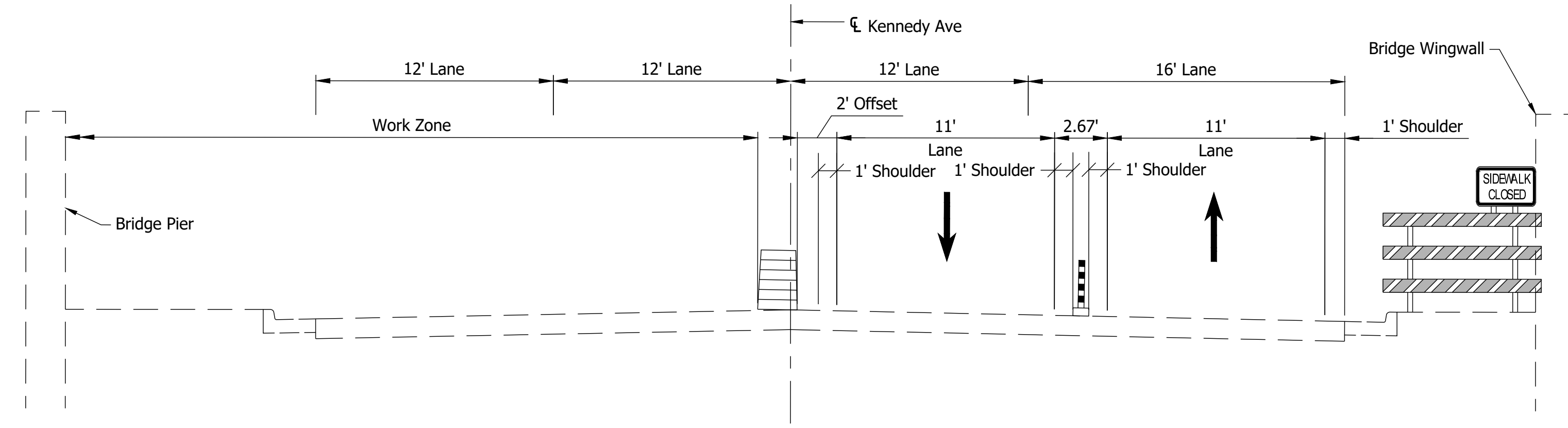
END CONSTRUCTION
XG20-2

NOTE TO REVIEWER
 Kennedy Avenue MOT will be coordinated with First Group Kennedy Avenue Road Diet, Des. No. 1901902

MOT - PHASE I
1" = 20'



MOT - PHASE I
1" = 20'



MOT - PHASE I SECTION
1" = 5'

Summary of MOT Quantities - Phase 1		
Barricade III-A	116	LFT
Barricade III-B	24	LFT
Temporary Pavement Marking, Removable, Black, 5 in.	1249	LFT
Temporary Pavement Marking, Removable, White, 4 in.	1135	LFT
Temporary Pavement Marking, Removable, Yellow, 4 in.	1491	LFT
Construction Sign, A		
XW9-1-B (L)	1	
XW9-1-B (R)	1	
XW9-2-B (L)	1	
XW9-2-B (R)	1	
W24-1 (L)	1	
XW106-1-A	2	
XW20-1	2	
XW2-6	2	
XG20-2	2	
W5-1	2	
	Total:	15 EA
Construction Sign, B		
R9-9	1	
	Total:	1 EA
Road Closure Sign Assembly	2	EA

GENERAL NOTES

- All maintenance of traffic devices, signs and pavement markings shall conform to the latest edition of the Indiana MUTCD.
- Type B construction warning lights shall be used with all signs located on barricades. Type A construction warning lights shall be used on all other construction signs.
- Spacing of Construction Barrels shall be maximum of 25 ft on taper sections and 50 ft on tangent sections.
- Spacing of Tubular Markers shall be maximum of 30 ft.

Legend

● ● ●	Construction Barrels	(40)	Temporary Pavement Marking, Removable, White, 4 in.
• • •	Tubular Markers	(41)	Temporary Pavement Marking, Removable, Yellow, 4 in.
—	Barricades	(42)	Temporary Pavement Marking, Removable, Black, 5 in.
—x—x—	Line, Remove		

Worksite Speed Limit: 35 mph
 Construction Zone Design Speed: 35 mph

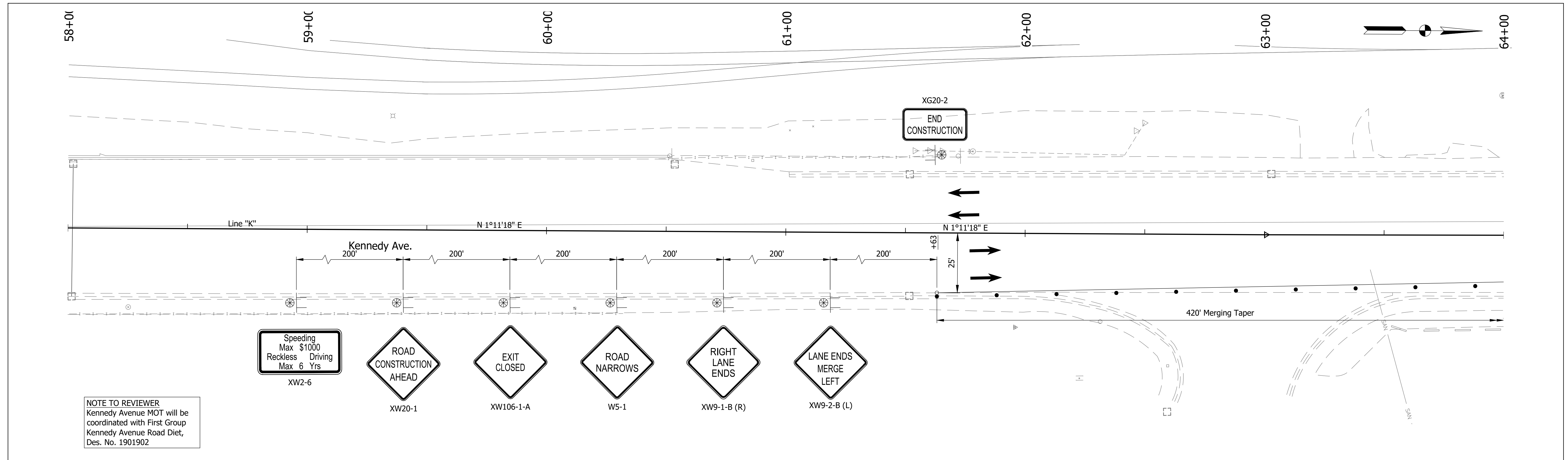
PRELIMINARY
 NOT FOR CONSTRUCTION
 DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
	DJM	11/21/2023
DESIGNED:	DJM	
CHECKED:	BSS	
	DJM	
	BJS	

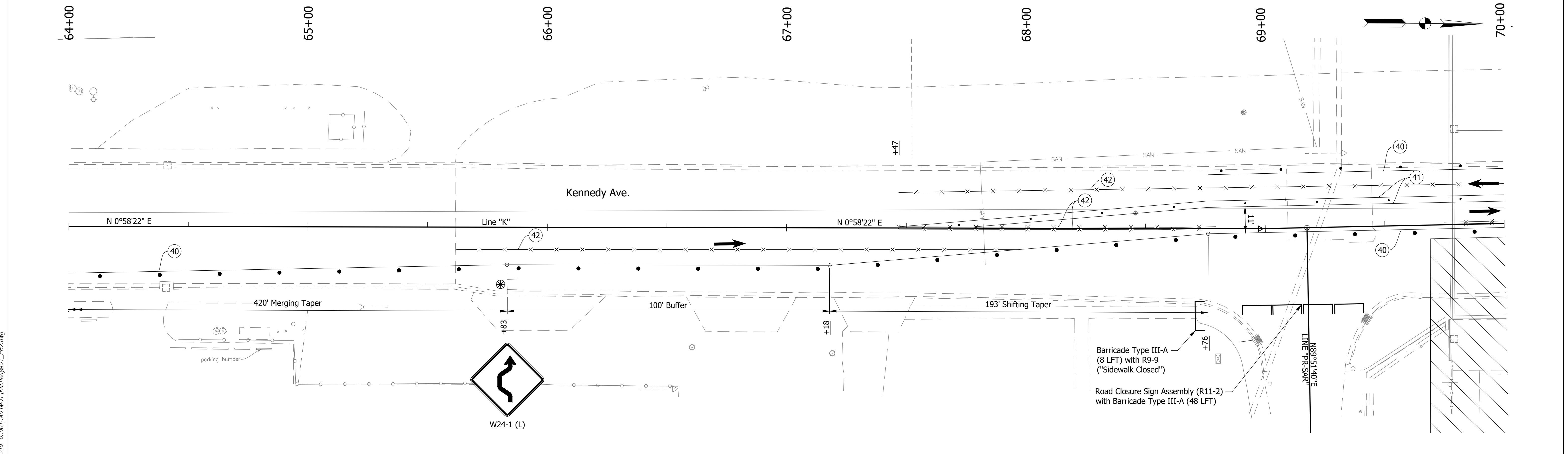
INDIANA DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC PHASE I

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	020-45-02821
VERTICAL SCALE	DESIGNATION
N/A	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	11 of 76
CONTRACT	PROJECT
B-43636	1900009

Date: Nov 21, 2023, 5:17pm User Name: RandyAlbouse
 File: X:\Production\Files\2019\219-0350\CAD\MOT\KennedyMOT_Ph2.dwg



NOTE TO REVIEWER
 Kennedy Avenue MOT will be coordinated with First Group Kennedy Avenue Road Diet, Des. No. 1901902



- Legend**
- Construction Barrels
 - Temporary Pavement Marking, Removable, White, 4 in.
 - Tubular Markers
 - Temporary Pavement Marking, Removable, Yellow, 4 in.
 - Barricades
 - Temporary Pavement Marking, Removable, Black, 5 in.
 - Line, Remove

- ④ Temporary Pavement Marking, Removable, White, 4 in.
- ④ Temporary Pavement Marking, Removable, Yellow, 4 in.
- ④ Temporary Pavement Marking, Removable, Black, 5 in.

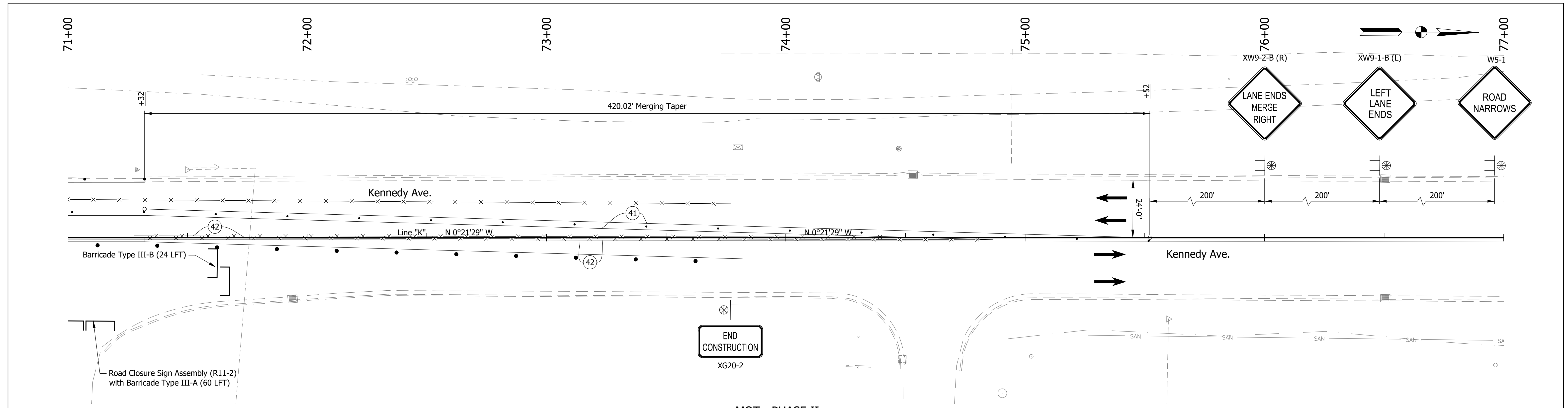
Worksite Speed Limit: 35 mph
 Construction Zone Design Speed: 35 mph

PRELIMINARY
 NOT FOR CONSTRUCTION
 DATE: 11/21/2023

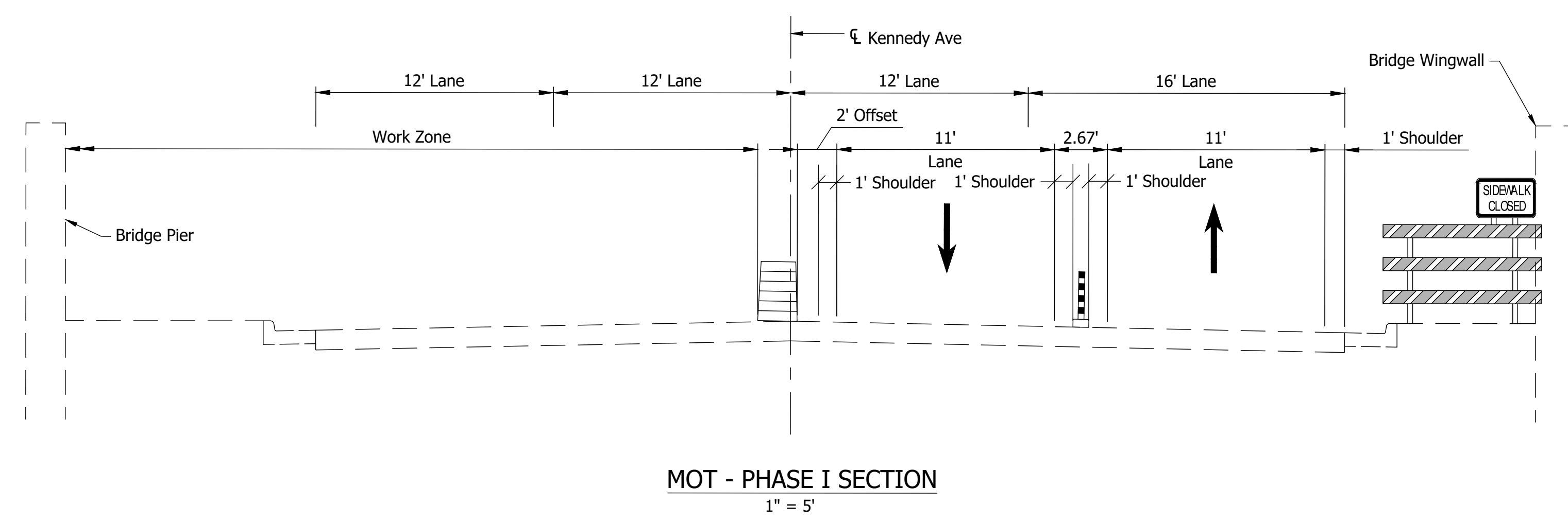
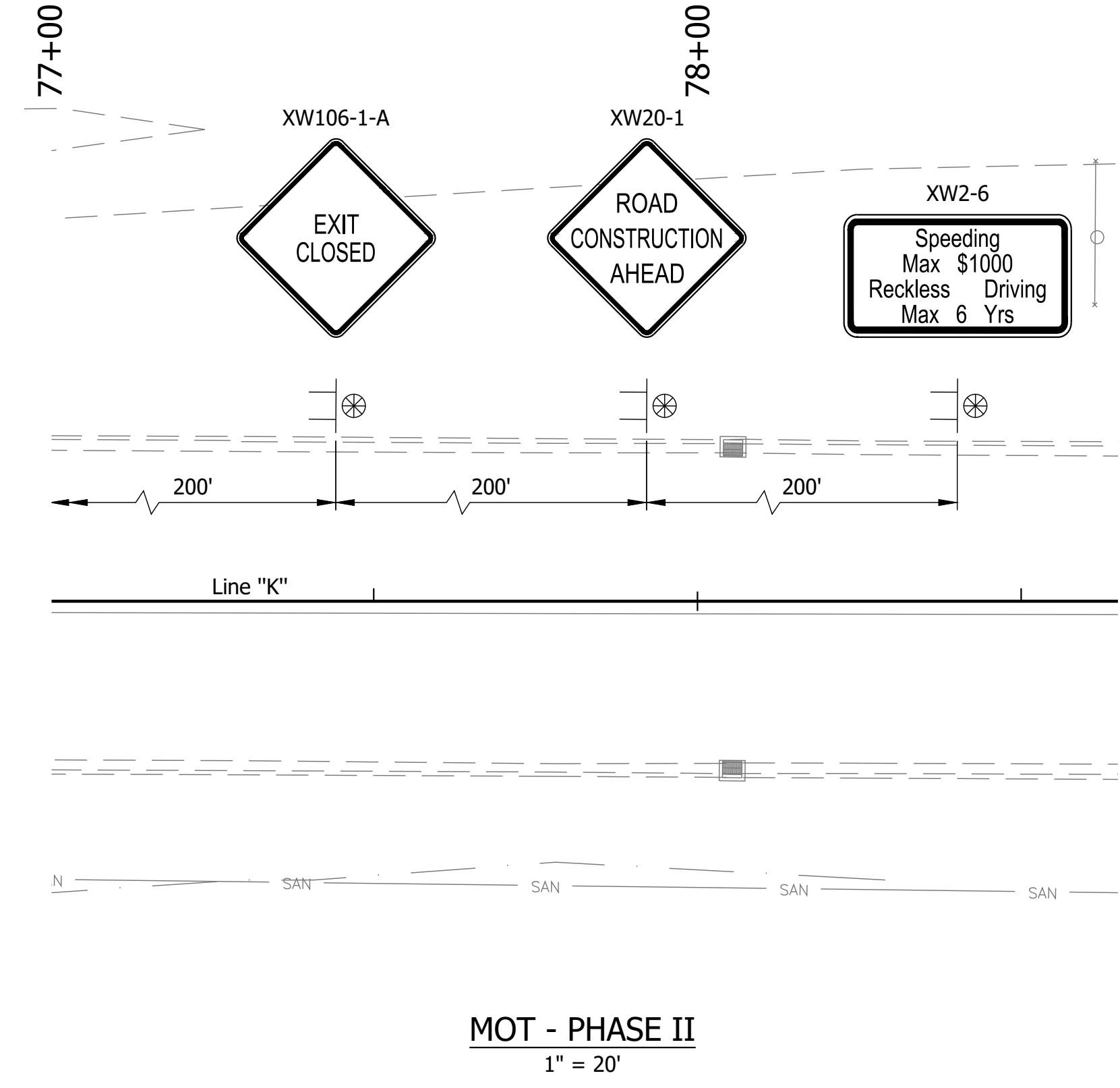
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
	DJM	11/21/2023
DESIGNED:	DJM	DRAWN:
		DJM
CHECKED:	BSS	CHECKED:
		BJS

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE II

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	020-45-02821
VERTICAL SCALE	DESIGNATION
N/A	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	12 of 76
CONTRACT	PROJECT
B-43636	1900009



NOTE TO REVIEWER
 Kennedy Avenue MOT will be coordinated with First Group Kennedy Avenue Road Diet, Des. No. 1901902



Summary of MOT Quantities - Phase 1		
Barricade III-A	116	LFT
Barricade III-B	24	LFT
Temporary Pavement Marking, Removable, Black, 5 in.	1249	LFT
Temporary Pavement Marking, Removable, White, 4 in.	1135	LFT
Temporary Pavement Marking, Removable, Yellow, 4 in.	1491	LFT
Construction Sign, A		
XW9-1-B (L)	1	
XW9-1-B (R)	1	
XW9-2-B (L)	1	
XW9-2-B (R)	1	
W24-1 (L)	1	
XW106-1-A	2	
XW20-1	2	
XW2-6	2	
XG20-2	2	
W5-1	2	
	Total:	15 EA
Construction Sign, B		
R9-9	1	
	Total:	1 EA
Road Closure Sign Assembly	2	EA

GENERAL NOTES

- All maintenance of traffic devices, signs and pavement markings shall conform to the latest edition of the Indiana MUTCD.
- Type B construction warning lights shall be used with all signs located on barricades. Type A construction warning lights shall be used on all other construction signs.
- Spacing of Construction Barrels shall be maximum of 25 ft on taper sections and 50 ft on tangent sections.
- Spacing of Tubular Markers shall be maximum of 30 ft.

Date: Nov 21, 2023, 5:17pm User Name: RandyAlbouse File: X:\Production\Files\2019\219-0350\CAD\MOT\KennedyMOT_Ph2.dwg

Legend

● ● ● Construction Barrels	(40) Temporary Pavement Marking, Removable, White, 4 in.
● ● ● Tubular Markers	(41) Temporary Pavement Marking, Removable, Yellow, 4 in.
— — — Barricades	(42) Temporary Pavement Marking, Removable, Black, 5 in.
— — — Line, Remove	

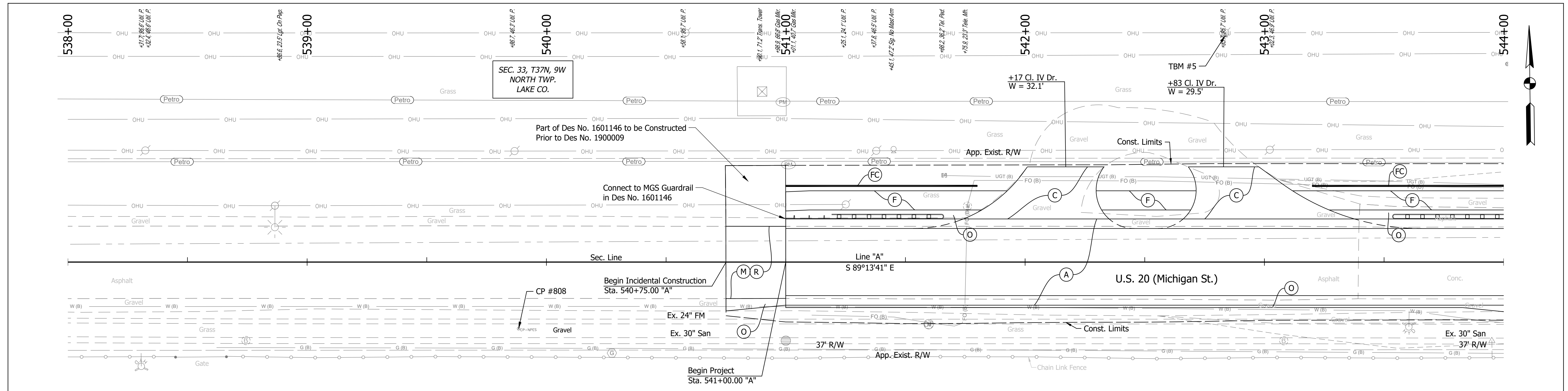
Worksite Speed Limit: 35 mph
 Construction Zone Design Speed: 35 mph

PRELIMINARY
 NOT FOR CONSTRUCTION
 DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
		11/21/2023
DESIGNED: DJM	DRAWN: DJM	
CHECKED: BSS	CHECKED: BJS	

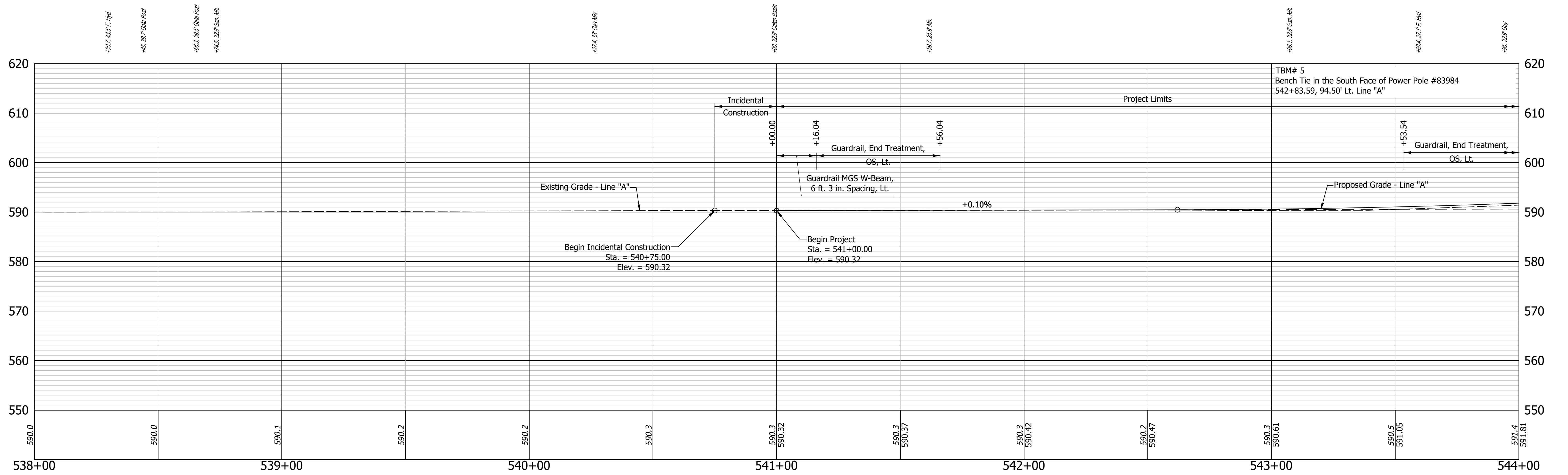
INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE II

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	020-45-02821
VERTICAL SCALE	DESIGNATION
N/A	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	13 of 76
CONTRACT	PROJECT
B-43636	1900009



All R/W and Topography described from Line "A" unless otherwise noted.
See Plat No. 1 (Sheet 7) for property owners.
For alignment geometry see Geometric Tie-Up (Sheet 8).

SEC. 4, T36N, 9W
NORTH TWP.
LAKE CO.



Date: Nov 21, 2023, 5:16pm User Name: RandyAlthoff
File: X:\Production\Files\2019\219-0350\CAD\PA\US20PP.dwg

- (A) 12 in. QC/QA PCCP on Dense Graded Subbase, 6 in., on Subgrade Treatment, Type IC
- (C) PCCP for Approaches, 9 in., on Dense Graded Subbase, 6 in., on Geogrid Type 1B on Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
- (F) Trail, Consisting of: PCCP, 4 in. on Compacted Aggregate No. 53 (4 in.) on Subgrade Treatment, Type III
- (FC) Fence, Chain Link, PVC Coated, 48 in.
- (M) Milling, Asphalt, 1.5 in.
- (O) Compacted Aggregate, No. 53
- (R) 165 lbs/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm

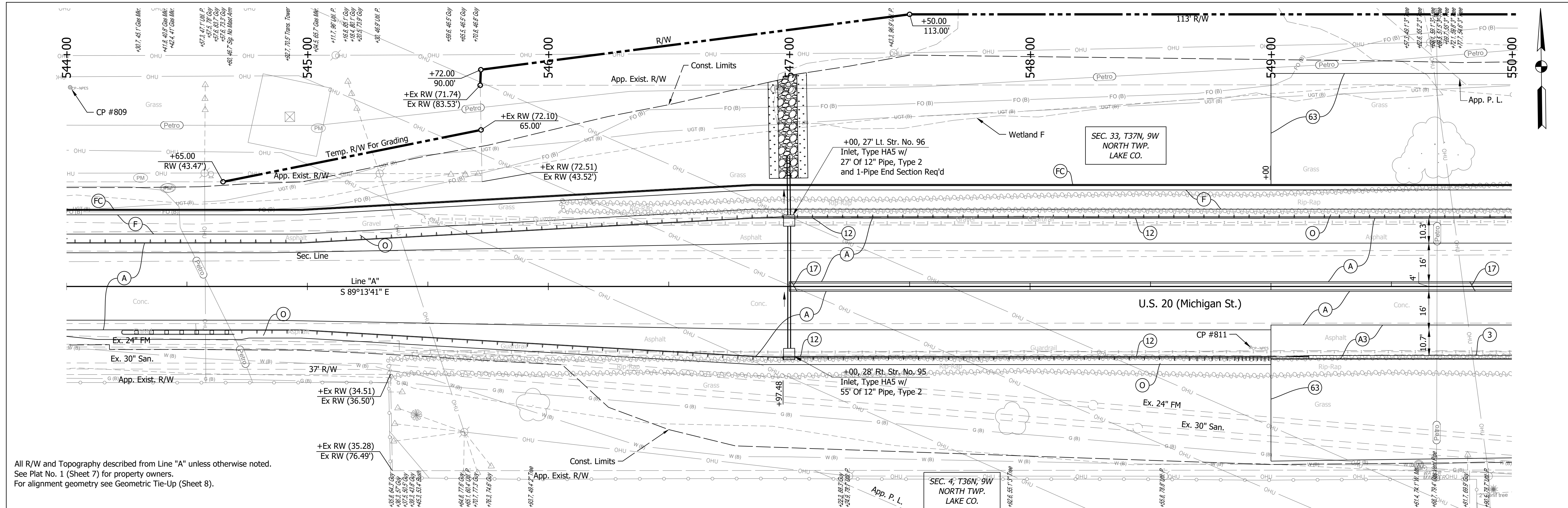
PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
	MJO	11/21/2023
DESIGNED:	DRAWN:	
MJO	MMT	
CHECKED:	CHECKED:	
BSS	BJS	

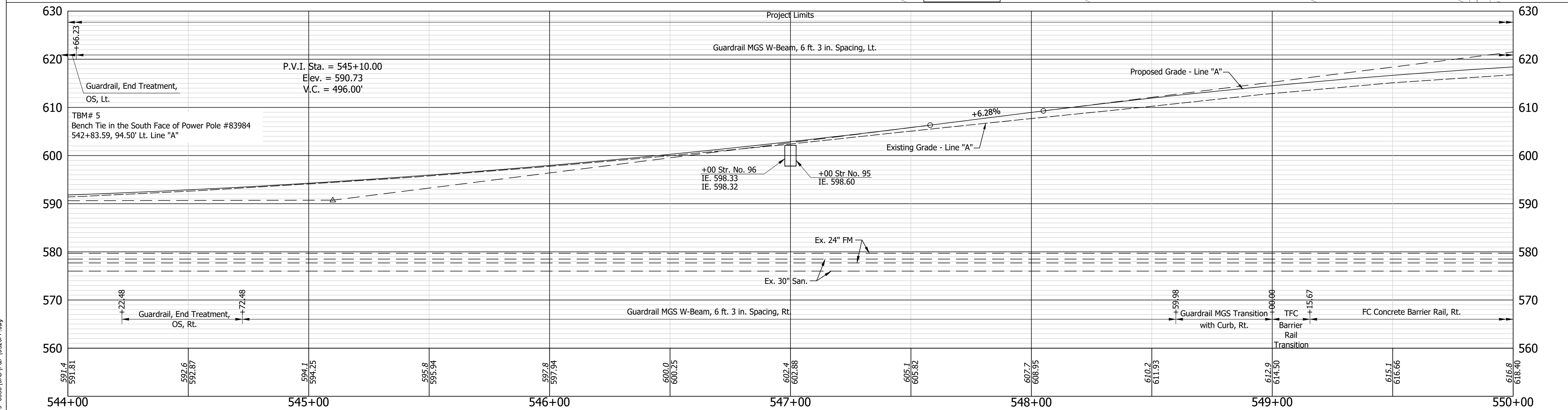
INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE - LINE "A"
STA. 538+00 TO STA. 544+00

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	14 of 76
CONTRACT	PROJECT
B-43636	1900009



All R/W and Topography described from Line "A" unless otherwise noted.
 See Plat No. 1 (Sheet 7) for property owners.
 For alignment geometry see Geometric Tie-Up (Sheet 8).

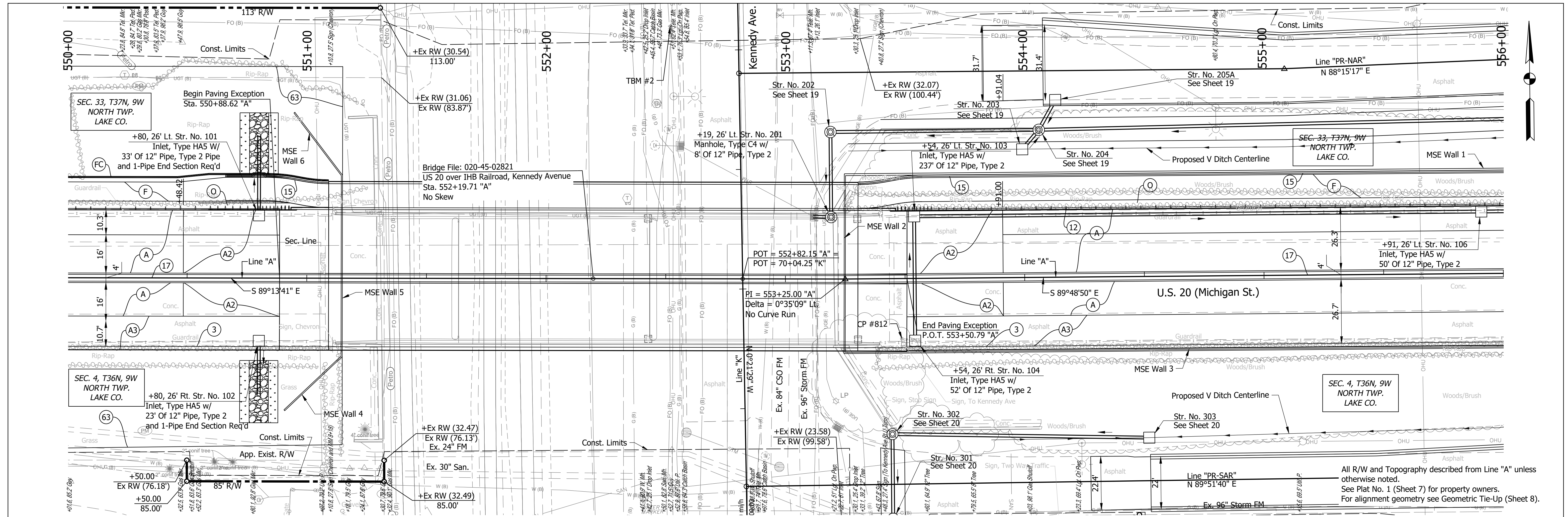


- (A) 12 in. QC/QA PCCP on Dense Graded Subbase, 6 in., on Subgrade Treatment, Type IC
- (A3) 12 in. Reinforced Concrete Moment Slab on 9 in. Compacted Aggregate No. 8
- (F) Trail, Consisting of: PCCP, 4 in. on Compacted Aggregate No. 53 (4 in.) on Subgrade Treatment, Type III
- (FC) Fence, Chain Link, PVC Coated, 48 in.
- (O) Compacted Aggregate, No. 53
- (3) FC Concrete Railing
- (63) 6 in. Geocell on Geotextile for Subgrade, Type 2B
- (12) Curb, Type B, Integral Concrete
- (15) Curb, Integral Concrete
- (17) Center Curb, Type B, Concrete, Modified

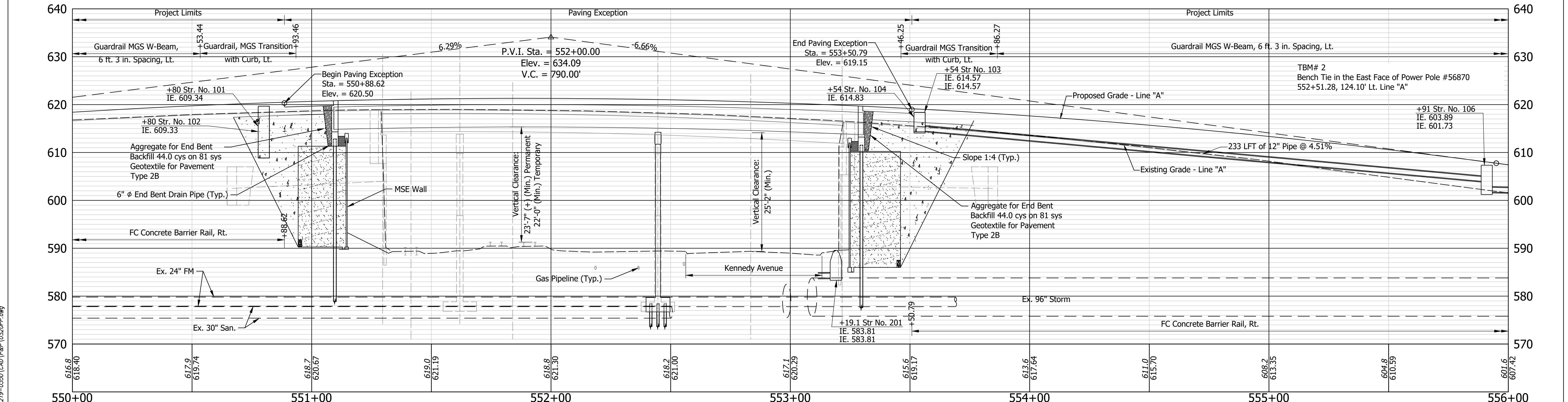
PRELIMINARY NOT FOR CONSTRUCTION DATE: 11/21/2023	
RECOMMENDED FOR APPROVAL	11/21/2023 DATE
DESIGNED: MJO	DRAWN: MMT
CHECKED: BSS	CHECKED: BJS

INDIANA DEPARTMENT OF TRANSPORTATION	
PLAN AND PROFILE - LINE "A" STA. 544+00 TO STA. 550+00	
HORIZONTAL SCALE 1" = 20'	BRIDGE FILE 020-45-02821
VERTICAL SCALE 1" = 5'	DESIGNATION 1900009
SURVEY BOOK ELECTRONIC	SHEETS 15 of 76
CONTRACT B-43636	PROJECT 1900009

Date: Nov 21, 2023, 5:15pm User Name: RandyAlthouse
 File: X:\Production\Files\2019-2020\CAD\PA\USDRP.dwg



All R/W and Topography described from Line "A" unless otherwise noted.
See Plat No. 1 (Sheet 7) for property owners.
For alignment geometry see Geometric Tie-Up (Sheet 8).



- (A) 12 in. QC/QA PCCP on Dense Graded Subbase, 6 in., on Subgrade Treatment, Type IC
- (A2) Jointed Reinforced Concrete Pavement 12 in. on 9" Subbase for PCCP on Subgrade Treatment, Type IC
- (A3) 12 in. Reinforced Concrete Moment Slab on 9 in. Compacted Aggregate No. 8
- (F) Trail, Consisting of: PCCP, 4 in. on Compacted Aggregate No. 53 (4 in.) on Subgrade Treatment, Type III
- (FC) Fence, Chain Link, PVC Coated, 48 in.
- (3) FC Concrete Railing
- (12) Curb, Type B, Integral Concrete
- (15) Curb, Integral Concrete
- (17) Center Curb, Type B, Concrete, Modified
- (63) 6 in. Geocell on Geotextile for Subgrade, Type 2B

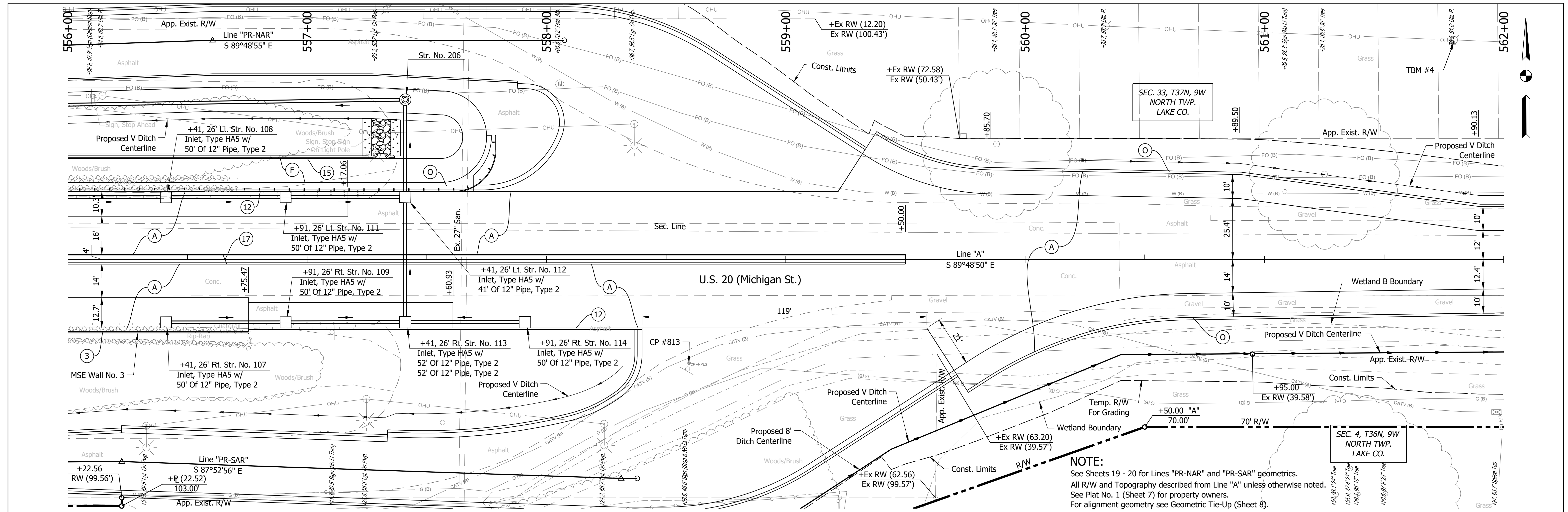
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
	MJO	11/21/2023
DESIGNED:	DRAWN:	
BSS	MMT	
CHECKED:	CHECKED:	
	BJS	

INDIANA DEPARTMENT OF TRANSPORTATION

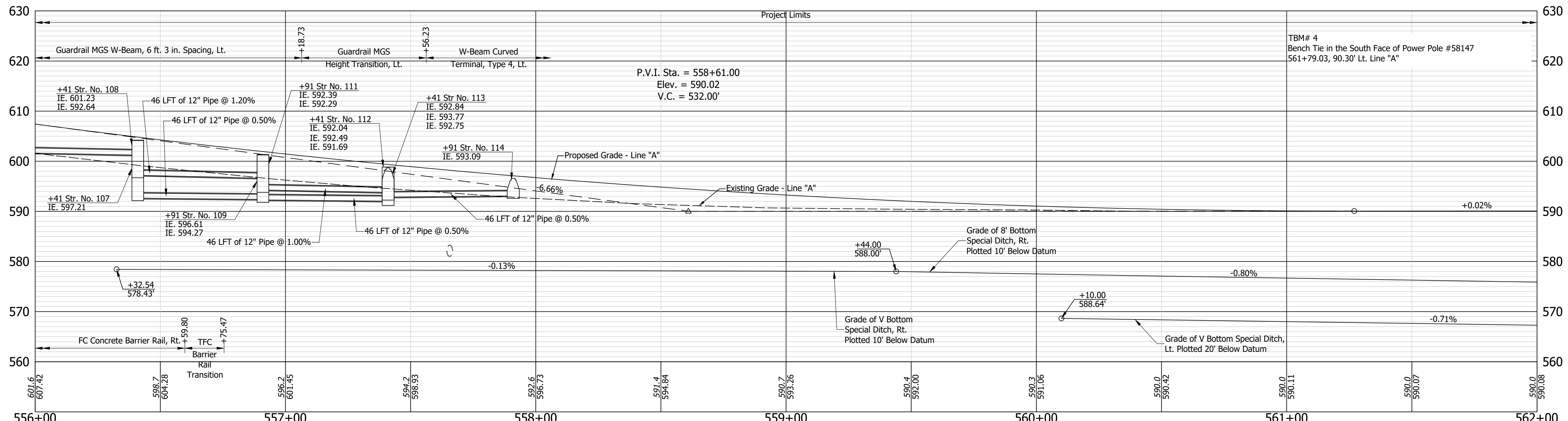
PLAN AND PROFILE - LINE "A"
STA. 550+00 TO STA. 556+00

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	16 of 76
CONTRACT	PROJECT
B-43636	1900009

Date: Nov 21, 2023, 5:15pm User Name: Randy/klhose File: X:\Production\Files\2019-2020\CAD\IAP\US20PP.dwg



NOTE:
 See Sheets 19 - 20 for Lines "PR-NAR" and "PR-SAR" geometrics.
 All R/W and Topography described from Line "A" unless otherwise noted.
 See Plat No. 1 (Sheet 7) for property owners.
 For alignment geometry see Geometric Tie-Up (Sheet 8).



- (A) 12 in. QC/QA PCCP on Dense Graded Subbase, 6 in., on Subgrade Treatment, Type IC
- (B) Trail, Consisting of: PCCP, 4 in. on Compacted Aggregate No. 53 (4 in.) on Subgrade Treatment, Type III
- (C) Compacted Aggregate, No. 53
- (3) FC Concrete Railing
- (12) Curb, Type B, Integral Concrete
- (15) Curb, Integral Concrete
- (17) Center Curb, Type B, Concrete, Modified

PRELIMINARY
 NOT FOR CONSTRUCTION
 DATE: 11/21/2023

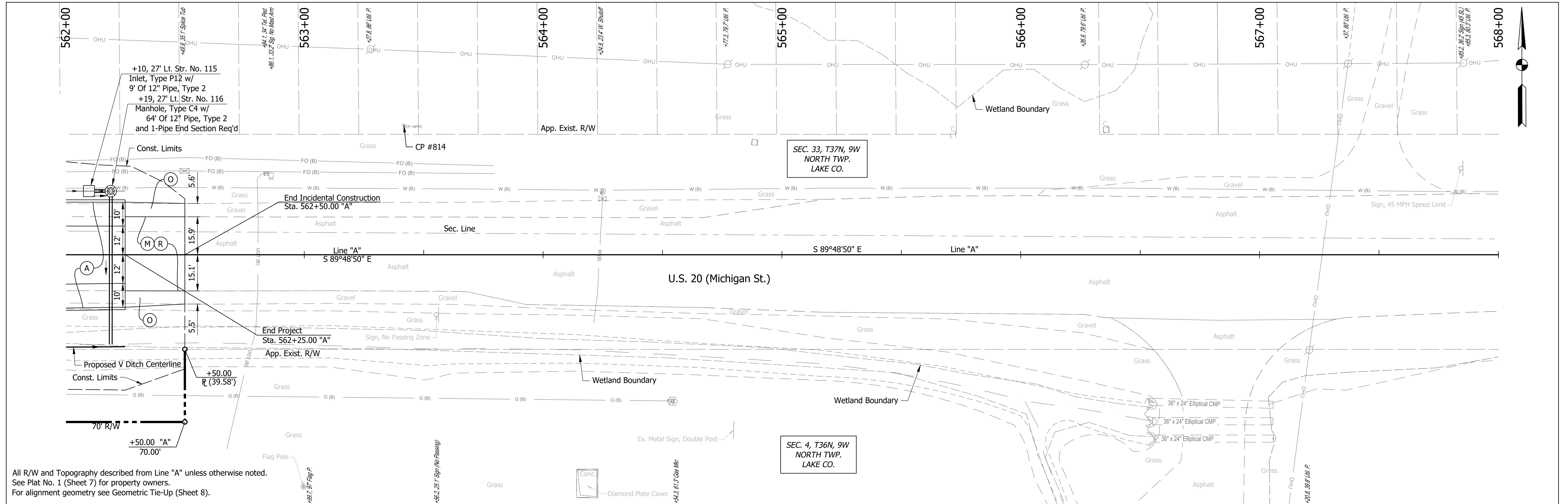
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
	MJO	11/21/2023
DESIGNED:	DRAWN:	
BSS	MMT	
CHECKED:	CHECKED:	
	BJS	

INDIANA DEPARTMENT OF TRANSPORTATION

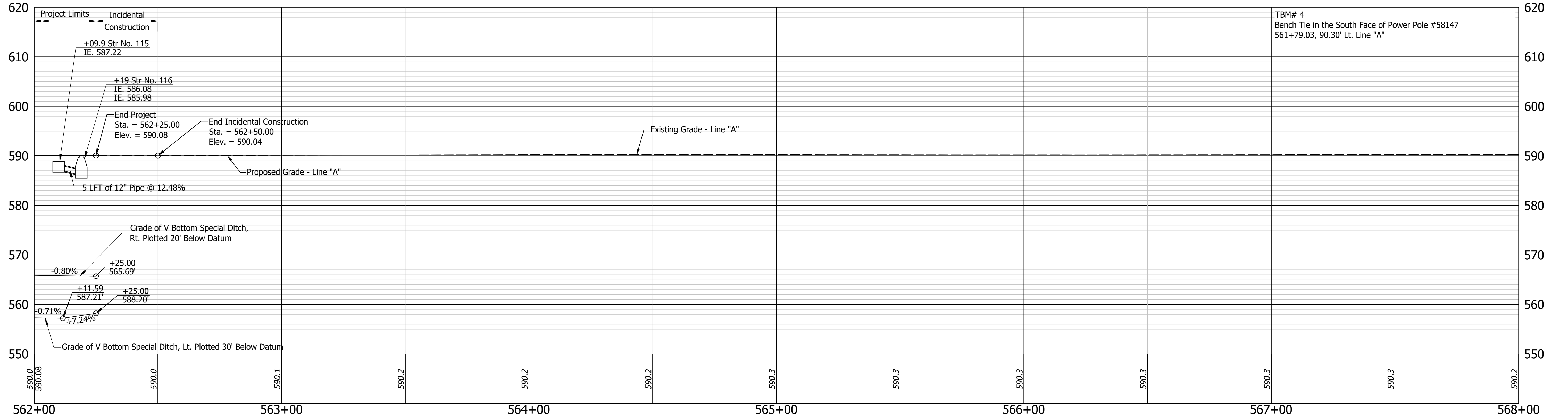
PLAN AND PROFILE - LINE "A"
STA. 556+00 TO STA. 562+00

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	17 of 76
CONTRACT	PROJECT
B-43636	1900009

Date: Nov 21, 2023, 5:15pm User Name: RandyKilbise
 File: X:\Production\Files\2019\219-0350\CAD\PA\US20PP.dwg



All R/W and Topography described from Line "A" unless otherwise noted.
 See Plat No. 1 (Sheet 7) for property owners.
 For alignment geometry see Geometric Tie-Up (Sheet 8).



- (A) 12 in. QC/QA PCCP on Dense Graded Subbase, 6 in., on Subgrade Treatment, Type IC
- (M) Milling, Asphalt, 1.5 in.
- (O) Compacted Aggregate, No. 53
- (R) 165 lbs/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm

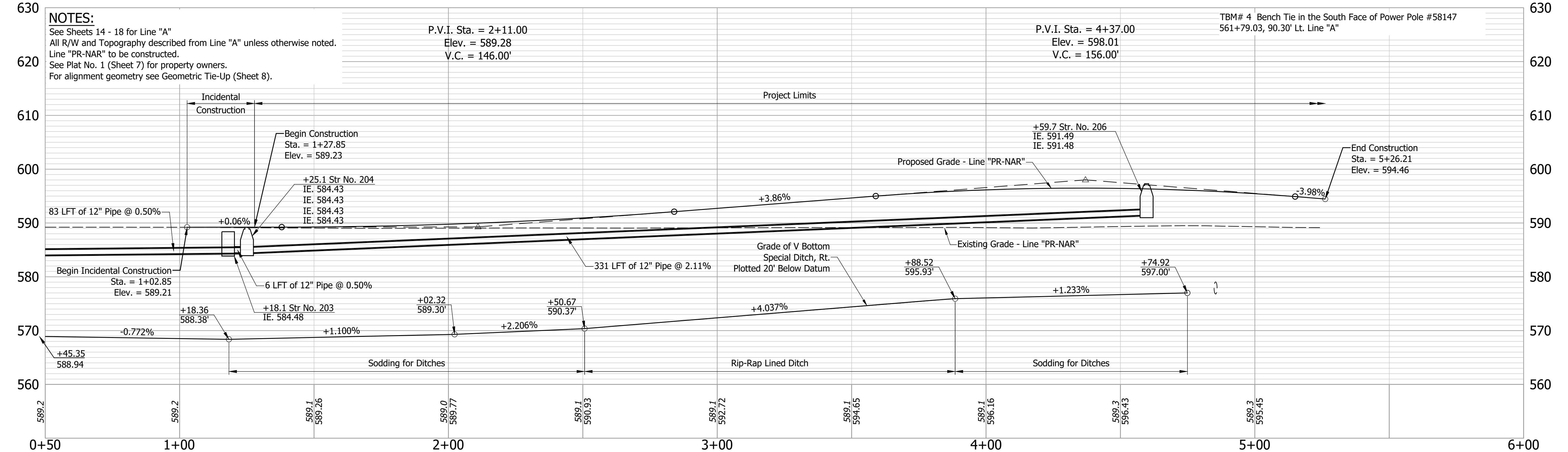
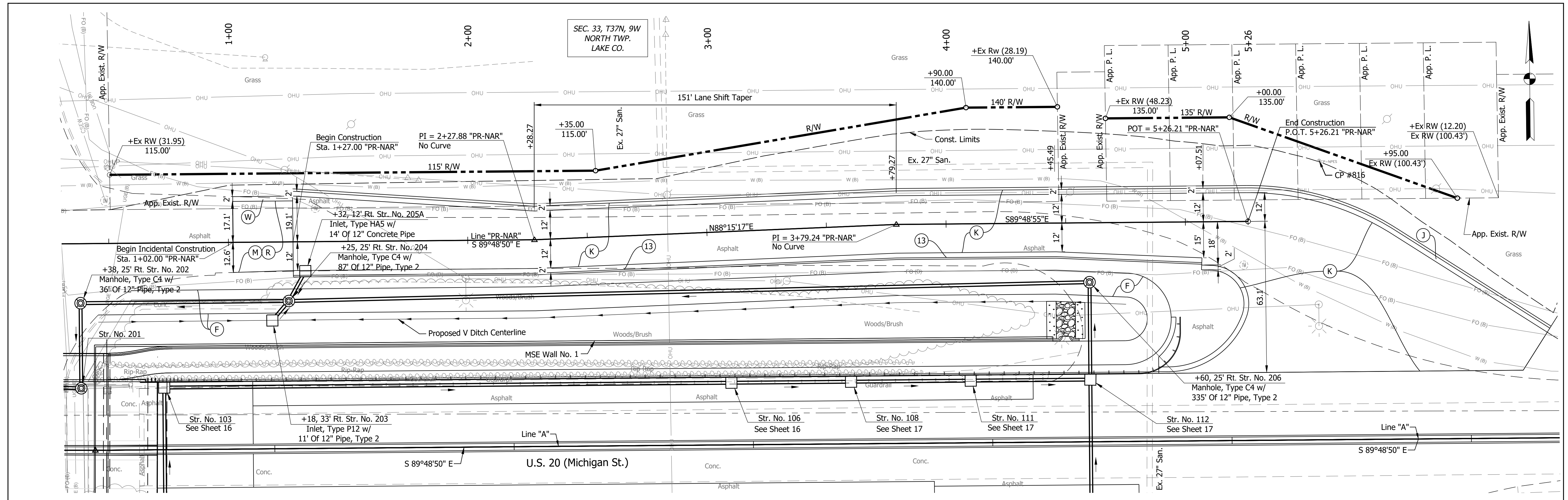
PRELIMINARY NOT FOR CONSTRUCTION DATE: 11/21/2023	RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER	11/21/2023	DATE
	DESIGNED: MJO	DRAWN: MMT	CHECKED: BSS	CHECKED: BJS

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE - LINE "A"
STA. 562+00 TO STA. 568+00

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE 020-45-02821
VERTICAL SCALE 1" = 5'	DESIGNATION 1900009
SURVEY BOOK ELECTRONIC	SHEETS 18 of 76
CONTRACT B-43636	PROJECT 1900009

Date: Nov 21, 2023, 5:15pm User Name: RandyKilbuse
 File: X:\Production\Files\2019\219-0350\CAD\PA\US20PP.dwg



NOTES:
 See Sheets 14 - 18 for Line "A"
 All R/W and Topography described from Line "A" unless otherwise noted.
 Line "PR-NAR" to be constructed.
 See Plat No. 1 (Sheet 7) for property owners.
 For alignment geometry see Geometric Tie-Up (Sheet 8).

- (K) 165 lbs/syd QC/QA HMA, 3, 70, Surface, 9.5mm on 275 lbs/syd QC/QA HMA, 3, 70, Intermediate, 19mm on 880 lbs/syd QC/QA HMA, 3, 64, Base, 25mm on Subgrade Treatment, Type IC
- (M) Milling, Asphalt, 1.5 in.
- (R) 165 lbs/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm

- (W) 165 lbs/syd QC/QA HMA, 3, 70, Surface, 9.5mm on Widening with HMA, Type D, consisting of: 275 lbs/syd QC/QA HMA, 3, 70, Intermediate, 19mm on 880 lbs/syd QC/QA HMA, 3, 64, Base, 25mm on Subgrade Treatment, Type IC
- (13) Concrete Curb and Gutter, Type B

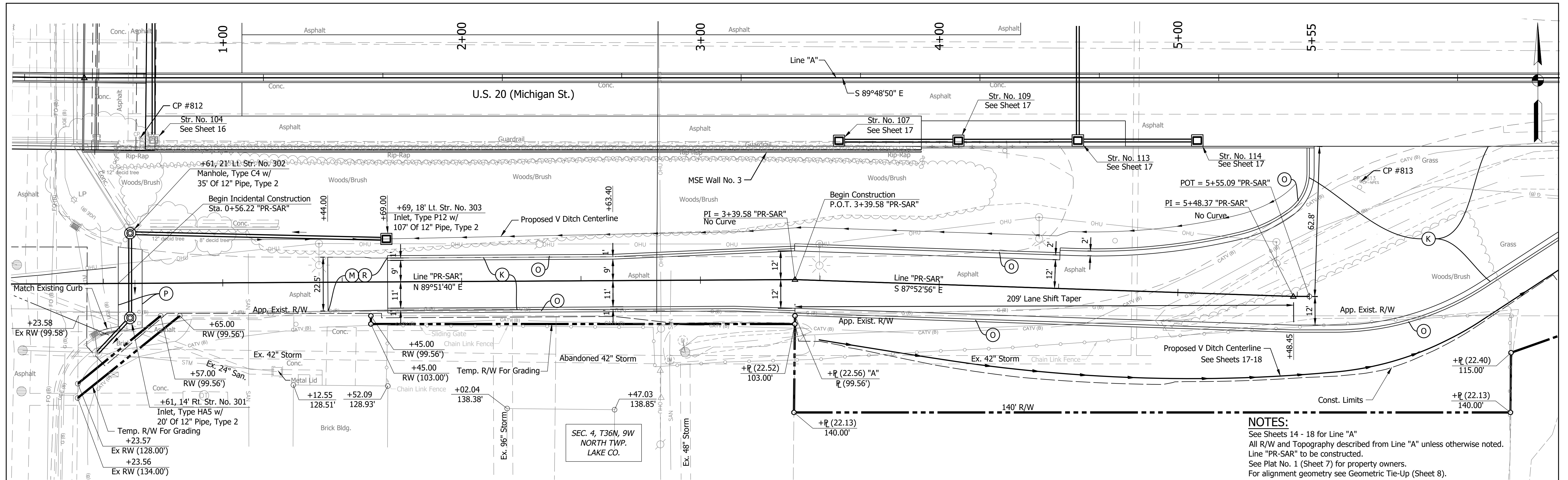
PRELIMINARY
 NOT FOR CONSTRUCTION
 DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	11/21/2023	DATE
DESIGNED: MJO	DRAWN: JRM		
CHECKED: BSS	CHECKED: BJS		

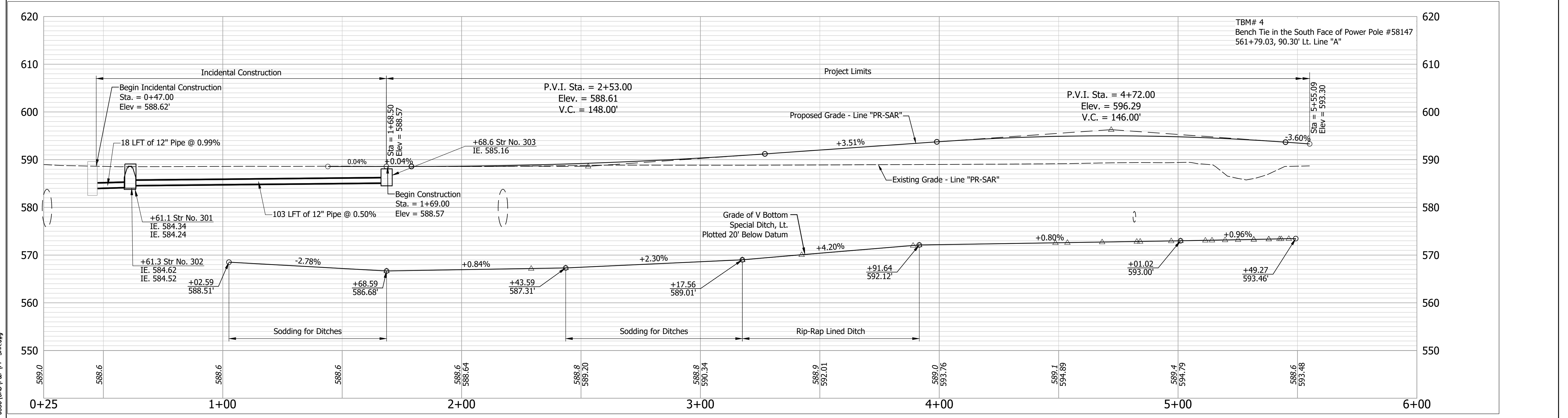
INDIANA DEPARTMENT OF TRANSPORTATION
PLAN AND PROFILE - LINE "PR-NAR"
STA. 01+00.00 TO STA. 06+00.00

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'-0"	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	19 of 76
CONTRACT	PROJECT
B-43636	1900009

Date: Nov 21, 2023, 5:20pm User Name: RandyKilbrose
 File: X:\Production\Files\2019\219-0350\CAD\PA1\PP-MR.dwg



NOTES:
 See Sheets 14 - 18 for Line "A"
 All R/W and Topography described from Line "A" unless otherwise noted.
 Line "PR-SAR" to be constructed.
 See Plat No. 1 (Sheet 7) for property owners.
 For alignment geometry see Geometric Tie-Up (Sheet 8).



Date: Nov 21, 2023, 5:21pm User Name: RandyWhitson
 File: X:\Production\Files\2019\219-0350\CAD\PP-PP-SAR.dwg

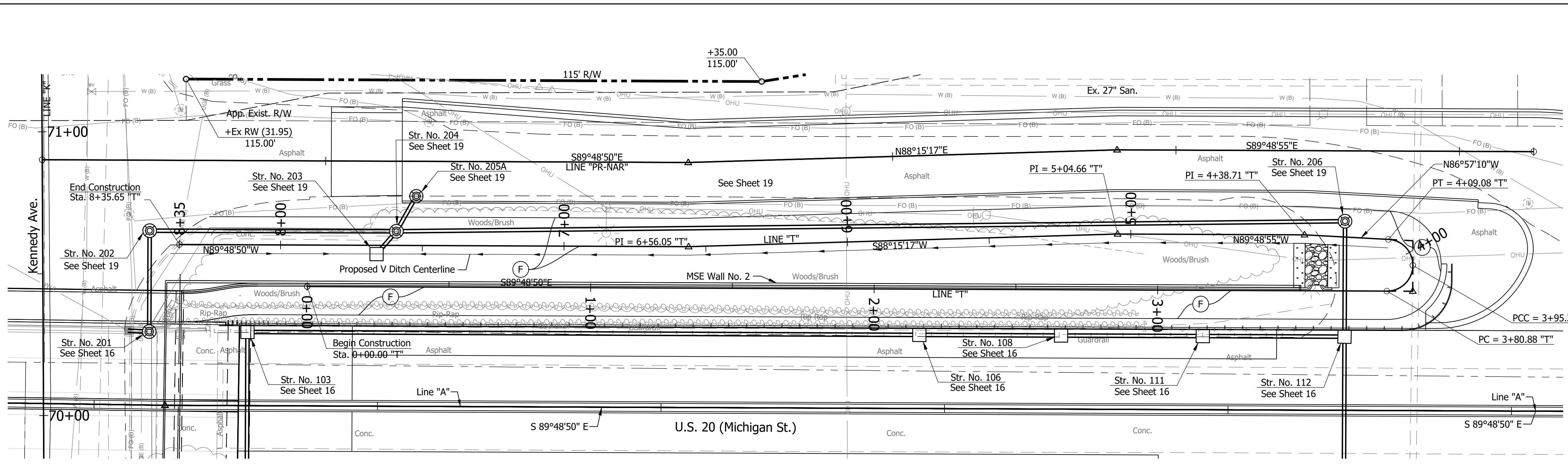
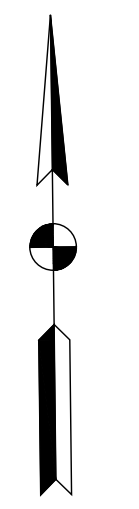
- (K) 165 lbs/syd QC/QA HMA, 3, 70, Surface, 9.5mm on 275 lbs/syd QC/QA HMA, 3, 70, Intermediate, 19mm on 880 lbs/syd QC/QA HMA, 3, 64, Base, 25mm on Subgrade Treatment, Type IC
- (M) Milling, Asphalt, 1.5 in.
- (O) Compacted Aggregate, No. 53
- (P) HMA Patching, Full Depth, Type C, to be: 165 lbs/syd HMA Surface, Type C, on 330 lbs/syd HMA Intermediate, Type C, on 605 lbs/syd HMA Base, Type C, on Subgrade Treatment, Type IC
- (R) 165 lbs/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm

PRELIMINARY
 NOT FOR CONSTRUCTION
 DATE: 11/21/2023

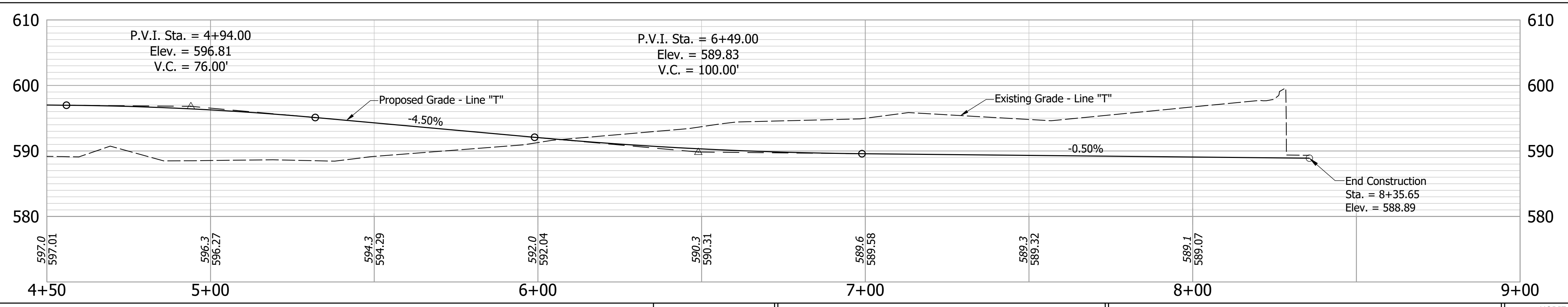
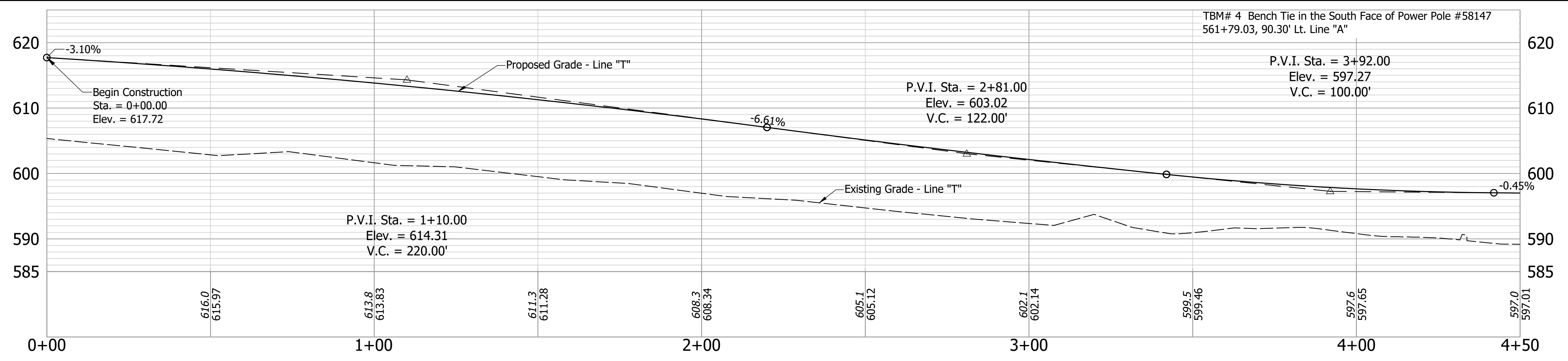
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
	MJO	11/21/2023
DESIGNED:	DRAWN:	
MJO	MMT	
CHECKED:	CHECKED:	
BSS	BJS	

INDIANA DEPARTMENT OF TRANSPORTATION
PLAN AND PROFILE - LINE "PR-SAR"
STA. 1+00 TO STA. 6+00

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 10'	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	20 of 76
CONTRACT	PROJECT
B-43636	1900009



NOTES:
 See Sheets 14 - 18 for Line "A".
 All R/W and Topography described from Line "A" unless otherwise noted.
 Line "PR-NAR" to be constructed.
 See Plat No. 1 (Sheet 7) for property owners.
 For alignment geometry see Geometric Tie-Up (Sheet 8).



(F) Trail, consisting of:
 PCCP, 4 in. on
 Compacted Aggregate No. 53 (4 in.) on
 Subgrade Treatment, Type III

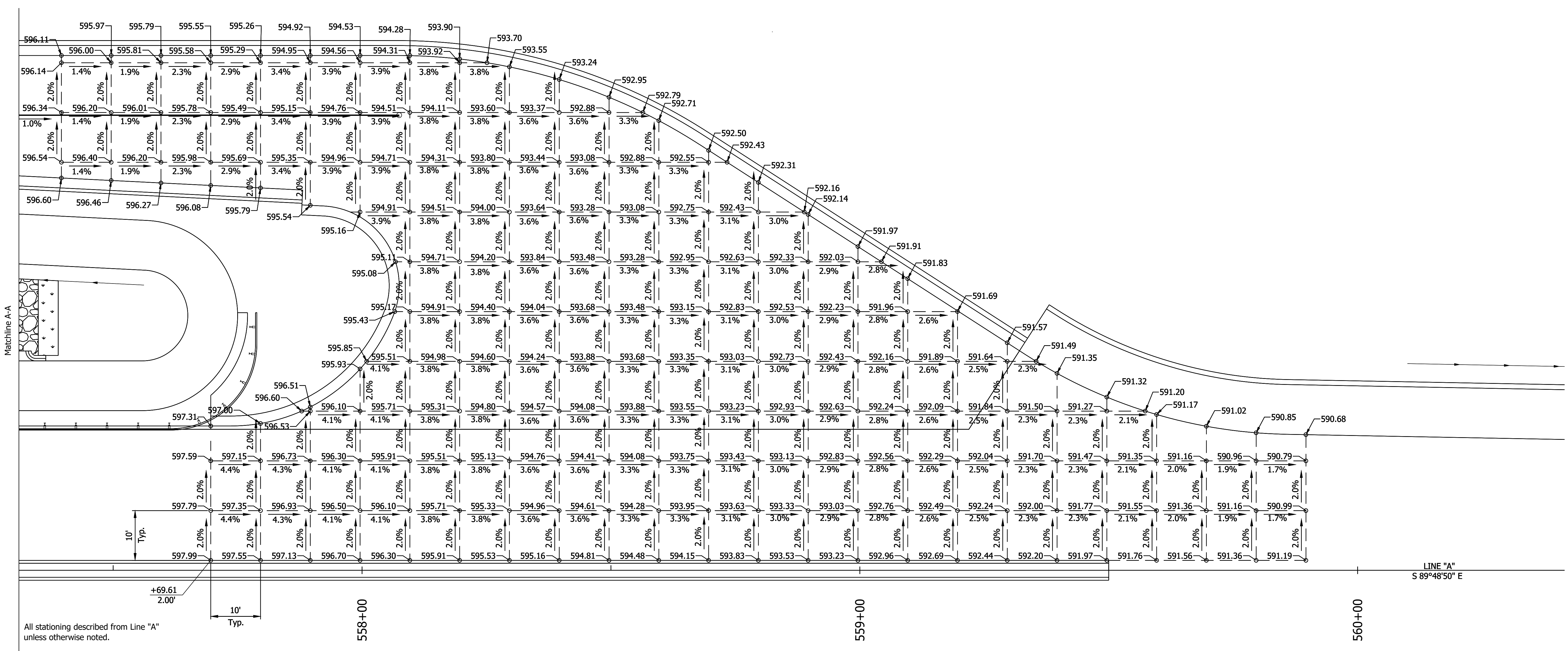
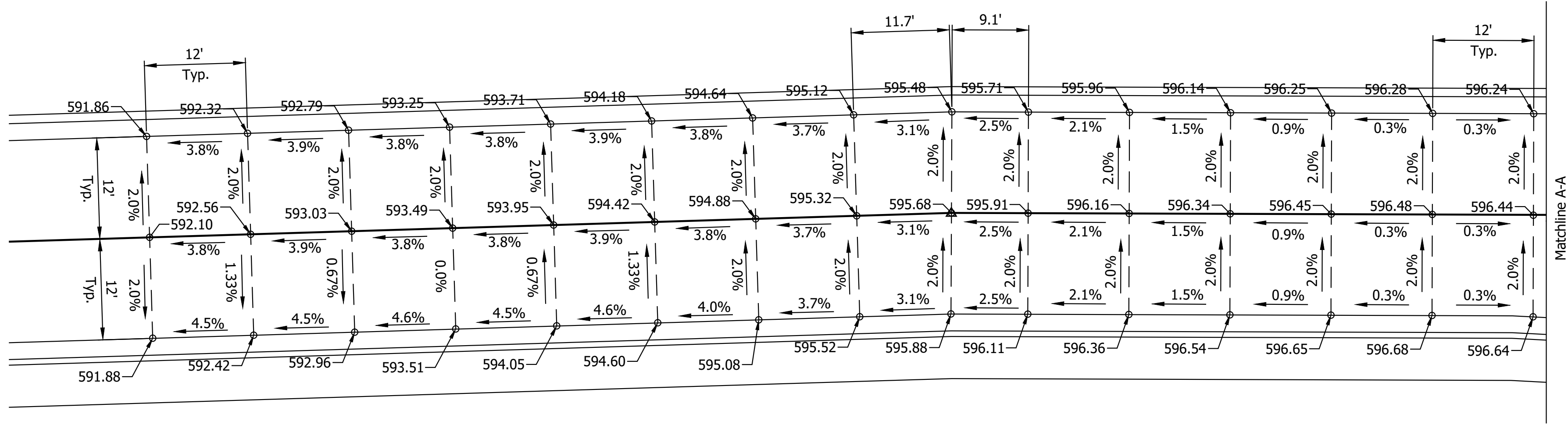
PRELIMINARY
 NOT FOR CONSTRUCTION
 DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: MJO	DRAWN: MJO	11/21/2023
CHECKED: BSS	CHECKED: BJS	

INDIANA
 DEPARTMENT OF TRANSPORTATION
PLAN AND PROFILE - LINE "T"
 STA. 0+00 TO 9+00

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	21 of 76
CONTRACT	PROJECT
B-43636	1900009

Date: Nov 21, 2023, 5:22pm User Name: RandyKilbrose
 File: X:\Production\Files\2019\219-0350\CAD\Paper\PP-TRAIL.dwg



All stationing described from Line "A" unless otherwise noted.

LINE "A"
S 89°48'50" E

Date: Nov 21, 2023, 5:23pm User Name: Randy Kilbese
File: X:\Production\Files\2019-2020\CAD\Misc\DWG\Spot Elevations - IAR.dwg

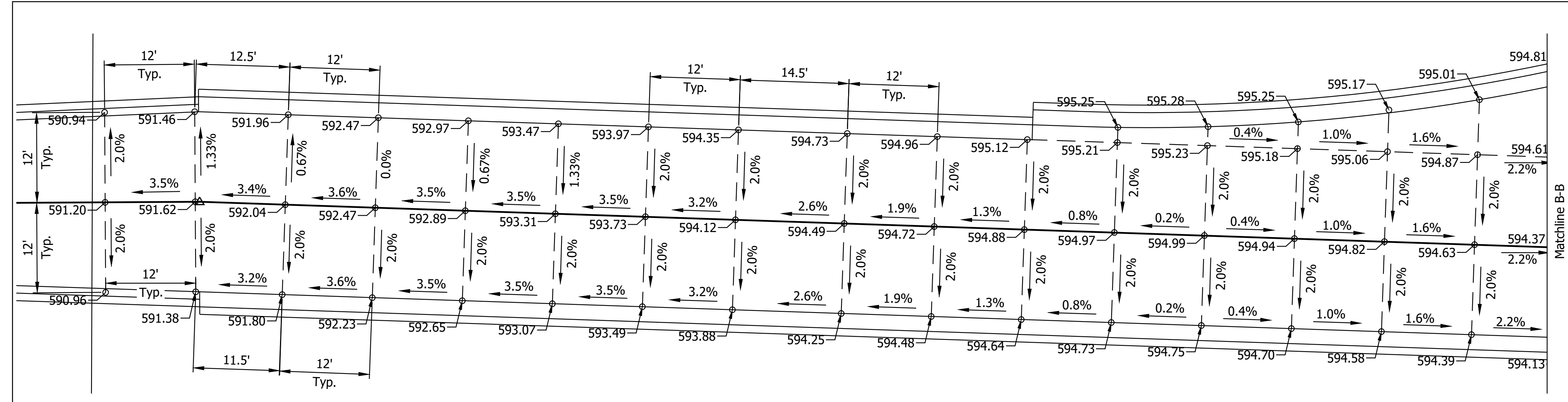
PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	11/21/2023	DATE
DESIGNED: MJO	DRAWN: MJO		
CHECKED: BSS	CHECKED: BJS		

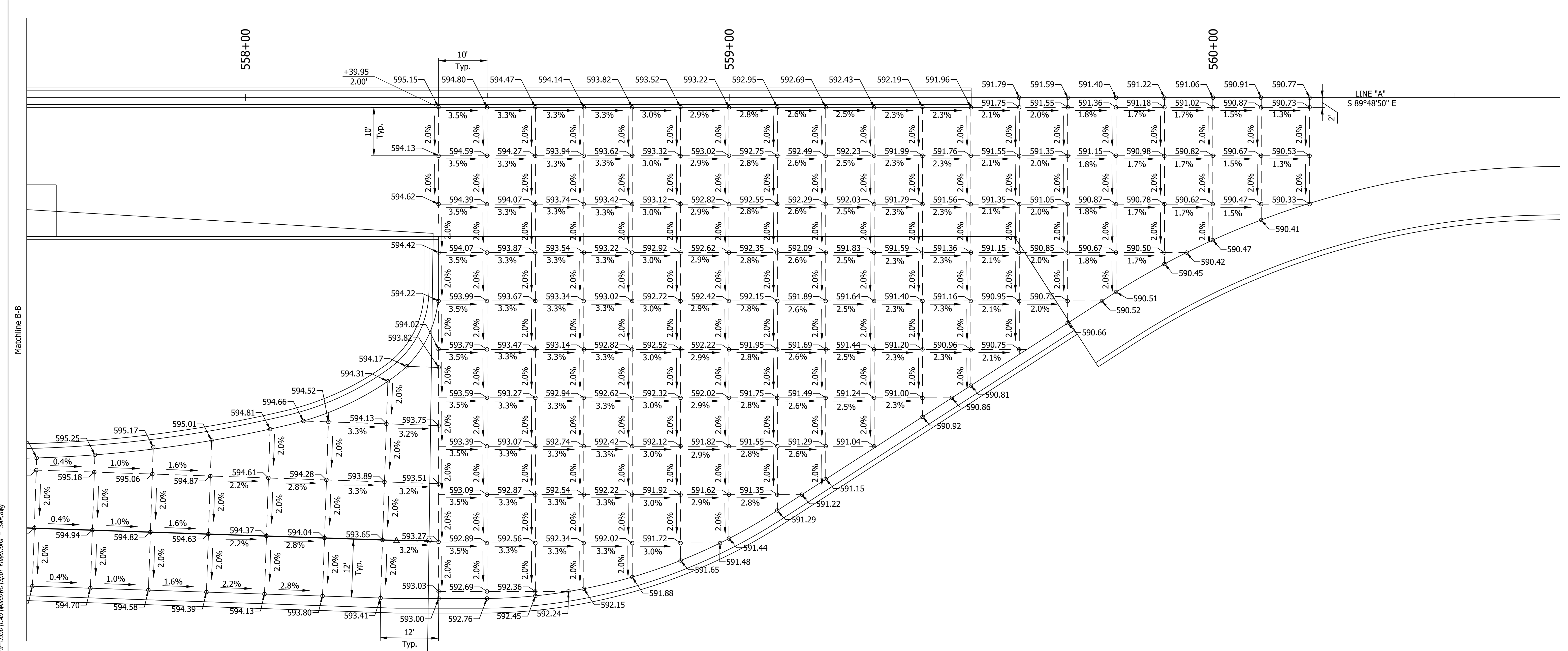
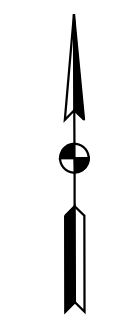
**INDIANA
DEPARTMENT OF TRANSPORTATION**

**SPOT ELEVATION DETAILS
LINE "PR-NAR"**

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'-0"	020-45-02821
VERTICAL SCALE	DESIGNATION
N/A	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	22 of 76
CONTRACT	PROJECT
B-43636	1900009



All stationing described from Line "A" unless otherwise noted.



Date: Nov 21, 2023, 5:23pm User Name: Randy Kilbrose
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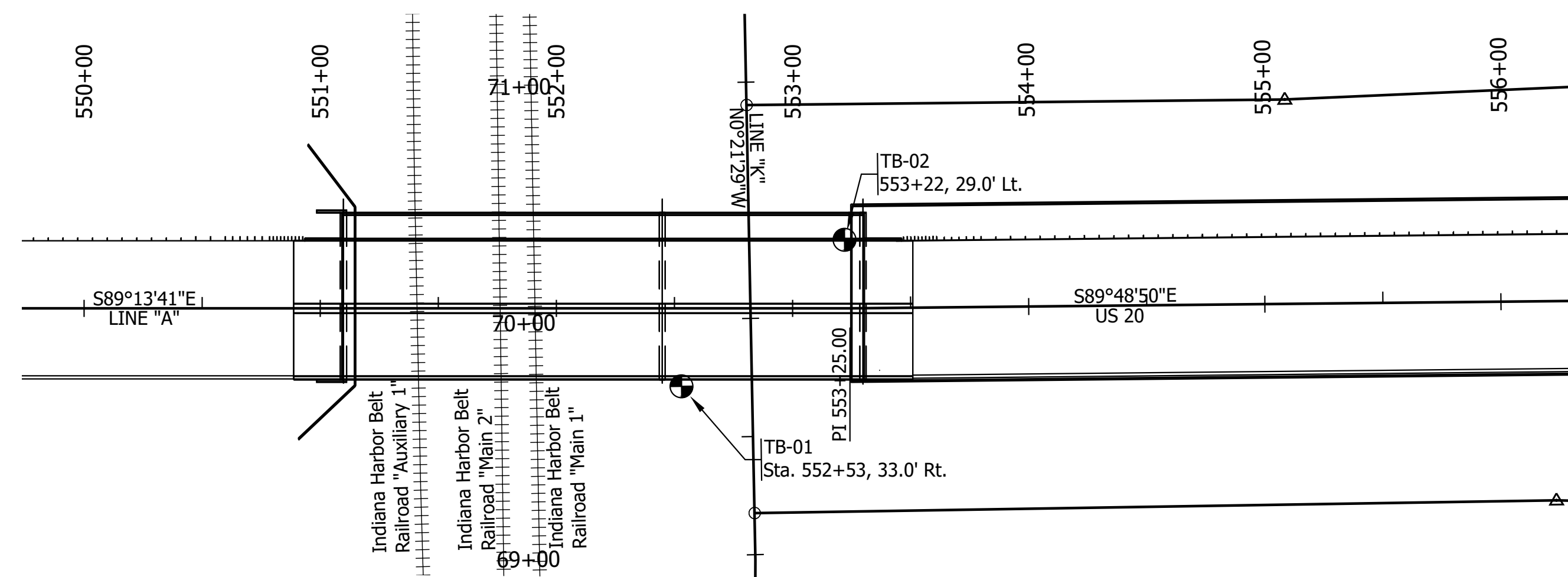
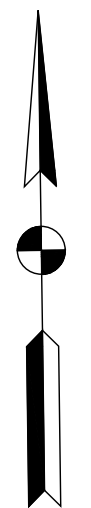
PRELIMINARY
 NOT FOR CONSTRUCTION
 DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	11/21/2023	DATE
DESIGNED: MJO	DRAWN: MJO		
CHECKED: BSS	CHECKED: BJS		

**INDIANA
 DEPARTMENT OF TRANSPORTATION**

**SPOT ELEVATION DETAILS
 LINE "PR-SAR"**

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'-0"	020-45-02821
VERTICAL SCALE	DESIGNATION
N/A	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	23 of 76
CONTRACT	PROJECT
B-43636	1900009



BORING PLAN
Scale: 1/4" = 1'-0"

PILE LOADING FOR GEOTECHNICAL TESTING			
	END BENT NO. 1	PIER NO. 2	END BENT NO. 3
Pile Size, Type, and Grade	14x0.312 Pipe Piles	HP12x53	14x0.312 Pipe Piles
Factored Design Load, Q _f (kip)	140	210	140
Factored Design Soil Resistance, R _r (kip)	140	210	140
Resistance Factor	0.7	0.7	0.7
Downdrag Load, DD (kip), Due to Embankment Fill	Negligible	Negligible	Negligible
Downdrag Load, D _L , Due to Liquefaction	N/A	N/A	N/A
Nominal Soil Resistance, R _n (kip)	200	300	200
Downdrag Friction, R _s (kip)	N/A	N/A	N/A
Scour Zone Friction, R _n (kip)	N/A	N/A	N/A
Relaxation of Tip in Shale (kip)	N/A	N/A	N/A
Nominal Driving Resistance, R _{ndr} (kip)	200	300	200
Estimated Pile Tip Elevation (Minimum)	570	505	570
Testing Method	ISS 701.05(b)		

NOTE TO REVIEWER:
The Geotechnical Report is currently in draft form. We are coordinating with INDOT Geotechnical and Bridge Design to determine the final foundation type. The plans currently show end bents on piles for Bent No. 1 and Bent No. 3, however there is consideration being given to using this as a test project for spread footings on MSE fill. Refer to the correspondence file and draft geotechnical report for additional information.

LOG OF TEST BORING

Terracon CLIENT : Lochmueller Group, Inc.
 DES NO. : 1900009 STRUCTURE # : 020-45-02821
 PROJECT TYPE : Bridge Replacement
 LOCATION : US 20 over Kennedy Ave & IHBRR
 COUNTY : Lake PROJECT NO. : CJ205119 DATE STARTED : 03-28-23 DATE COMPLETED : 03-28-23

BORING NO. : **TB-01**
 SHEET : 1 OF 3
 LATITUDE : 41.60987
 LONGITUDE : -87.46159
 DATUM : NAVD 88
 BORING METHOD : Hollow Stem Auger
 RIG TYPE : D-50 Track ATV
 HAMMER : Auto
 DRILLER/INSP : J.S.
 CASING DIA. :
 TEMPERATURE : 32 °F
 CORE SIZE :
 WEATHER : Overcast

ELEVATION : 589.0
 STATION : 552+53
 OFFSET : 33.0 ft Right
 LINE : 'A'
 DEPTH : 90.0 ft
 GROUNDWATER : Encountered at 10.0 ft

ELEVATION	SAMPLE DEPTH	SOIL MATERIAL DESCRIPTION	SAMPLE NUMBER	SPT PPF 6"	% RECOVERY	MOISTURE CONTENT	POCKET DENSITY, pcf	UNCONF. COMP. Tsf	LL	PL	PI	REMARKS
	0.7	Topsoil										
589.0	2.5	Sand and Gravel, medium dense, moist, brown, (fill; visual), A-1-b, Lab No. 36198	SS 1	3-5-6	72							
585.0	5.0		SS 2	2-2-4	67							
580.0	7.5		SS 3	5-8-8	6							
580.0	10.0		SS 4	4-7-10	78							
575.0	12.5		SS 5	9-13-15	89							
575.0	15.0	Sand, loose to dense, moist to wet below 10 ft, brown to gray below 8 ft, with gravel near 7 ft, (fill to 8 ft), A-2-4(0), Lab No. 36200	SS 6	9-13-14	83				NP	NP	NP	14.0, pH = 8.6, SG = 2.67
570.0	17.5		SS 7	6-11-16	94							
565.0	20.0		SS 8	6-12-23	89							
565.0	22.5		SS 9	8-16-20	94							
560.0	25.0		SS 10	7-11-16	89							
560.0	27.5		SS 11	6-6-9	83							
560.0	30.0	Silty Clay, soft to stiff, moist, gray, with silty loam seam near 29 ft, A-4, Lab No. 36202	SS 12	4-4-4	83	28.2	103.1	1.0				1.42

Continued on next page

LOG OF TEST BORING

Terracon CLIENT : Lochmueller Group, Inc.
 DES NO. : 1900009 STRUCTURE # : 020-45-02821
 PROJECT TYPE : Bridge Replacement

BORING NO. : **TB-01**
 SHEET : 2 OF 3
 LATITUDE : 41.60987
 LONGITUDE : -87.46159
 DATUM : NAVD 88
 BORING METHOD : Hollow Stem Auger
 RIG TYPE : D-50 Track ATV
 HAMMER : Auto
 DRILLER/INSP : J.S.
 CASING DIA. :
 TEMPERATURE : 32 °F
 CORE SIZE :
 WEATHER : Overcast

ELEVATION : 589.0
 STATION : 552+53
 OFFSET : 33.0 ft Right
 LINE : 'A'
 DEPTH : 90.0 ft
 GROUNDWATER : Encountered at 10.0 ft

ELEVATION	SAMPLE DEPTH	SOIL MATERIAL DESCRIPTION	SAMPLE NUMBER	SPT PPF 6"	% RECOVERY	MOISTURE CONTENT	POCKET DENSITY, pcf	UNCONF. COMP. Tsf	LL	PL	PI	REMARKS
555.0	32.5		SS 13	3-3-4	89	23.7	0.75					
550.0	35.0		ST 1	0								
550.0	37.5		SS 14	4-4-5	100	21.9	0.75					
545.0	40.0		SS 15	3-4-7	100	19.7	112.4	1.0				
545.0	42.5		SS 16	2-2-3	89	30.6	0.5					
540.0	45.0	Silty Clay, soft to stiff, moist, gray, with silty loam seam near 29 ft, A-4, Lab No. 36202	SS 17	4-5-5	94	23.7	0.5					
535.0	47.5		ST 2	83	21.3	107.0	0.5	1.0	32	19	13	SS 0, pH = 7.7, SG = 2.77, UU = 0.297 tsf
530.0	50.0		SS 18	3-3-3	100	24.6	101.1	0.75				
525.0	52.5		SS 19	3-4-4	89	23.7	1.0					

Continued on next page

LOG OF TEST BORING

Terracon CLIENT : Lochmueller Group, Inc.
 DES NO. : 1900009 STRUCTURE # : 020-45-02821
 PROJECT TYPE : Bridge Replacement

BORING NO. : **TB-01**
 SHEET : 3 OF 3
 LATITUDE : 41.60987
 LONGITUDE : -87.46159
 DATUM : NAVD 88
 BORING METHOD : Hollow Stem Auger
 RIG TYPE : D-50 Track ATV
 HAMMER : Auto
 DRILLER/INSP : J.S.
 CASING DIA. :
 TEMPERATURE : 32 °F
 CORE SIZE :
 WEATHER : Overcast

ELEVATION : 589.0
 STATION : 552+53
 OFFSET : 33.0 ft Right
 LINE : 'A'
 DEPTH : 90.0 ft
 GROUNDWATER : Encountered at 10.0 ft

ELEVATION	SAMPLE DEPTH	SOIL MATERIAL DESCRIPTION	SAMPLE NUMBER	SPT PPF 6"	% RECOVERY	MOISTURE CONTENT	POCKET DENSITY, pcf	UNCONF. COMP. Tsf	LL	PL	PI	REMARKS
520.0	67.5		SS 20	3-4-6	89	22.2	1.0					
515.0	70.0	Silty Clay, soft to stiff, moist, gray, with silty loam seam near 29 ft, A-4, Lab No. 36202	SS 21	3-7-8	78	23.4	121.7	0.5				
510.0	72.5		SS 22	6-9-15	89	14.3	121.2	3.52				
505.0	75.0		SS 23	11-20-23	78	13.0	>4.5					
500.0	77.5	Silty Clay Loam, very stiff to hard, moist, gray, with clay seam near 84 ft, A-4(2), Lab No. 36201	SS 24	12-18-24	83	12.8	>4.5					89.0, pH = 7.5, SG = 2.74
490.0	80.0											
485.0	82.5											
480.0	85.0											
475.0	87.5											
470.0	90.0	Bottom of Boring at 90.0 ft										

Date: Nov 21, 2023, 5:38pm User Name: Randy Killbase
 File: X:\Production\Files\20191219-0350\CAD\Plans\Bt_Soil Borings.dwg

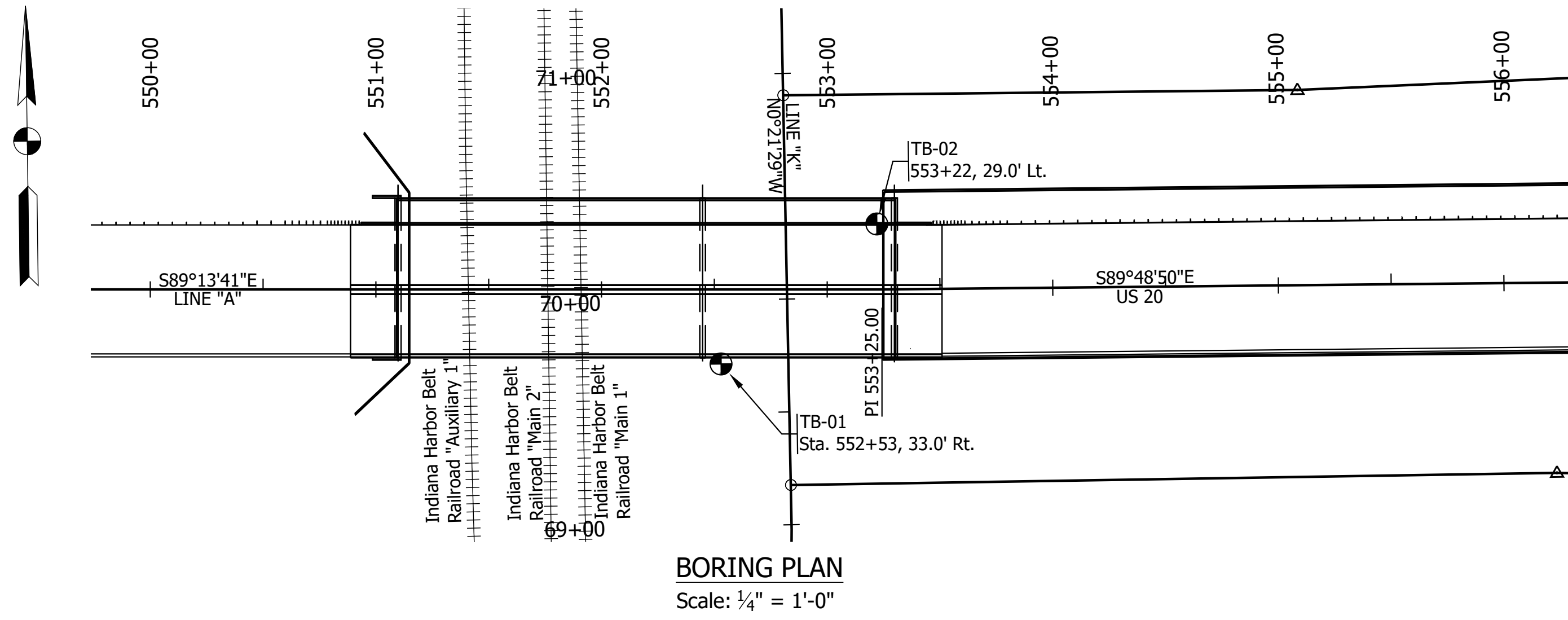
PRELIMINARY
 NOT FOR CONSTRUCTION
 DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	11/21/2023	DATE
DESIGNED: SCC	DRAWN: SCC		
CHECKED: BSS	CHECKED: BJS		

INDIANA DEPARTMENT OF TRANSPORTATION

SOIL BORINGS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	020-45-02821
VERTICAL SCALE	DESIGNATION
N/A	1900009
SURVEY BOOK	SHEET
ELECTRONIC	24 of 76
CONTRACT	PROJECT
B-43636	1900009



LOG OF TEST BORING

Terracon CLIENT: Lochmueller Group, Inc. BORING NO.: **TB-02**
 SHEET 1 OF 3
 DES NO.: 1900009 STRUCTURE #: 020-45-02821 LONGITUDE: -87.46296
 LATITUDE: 41.61003
 PROJECT TYPE: Bridge Replacement DATE STARTED: 03-30-23
 LOCATION: US 20 over Kennedy Ave & IHBRR PROJECT NO.: CJ205119 DATE COMPLETED: 03-30-23
 COUNTY: Lake PROJECT NO.: CJ205119 DATE COMPLETED: 03-30-23

ELEVATION: 588.0 BORING METHOD: Hollow Stem Auger HAMMER: Auto
 STATION: 553+22 RIG TYPE: D-50 Track ATV DRILLER/INSP: J.S.
 OFFSET: 29.0 ft Left CASING DIA.: --- TEMPERATURE: 55 °F
 LINE: "A" CORE SIZE: --- WEATHER: Sunny
 DEPTH: 90.0 ft

GROUNDWATER: Encountered at 6.0 ft At completion NW Caved in at 10.0 ft

ELEVATION	SAMPLE DEPTH	SOILMATERIAL DESCRIPTION	SAMPLE NUMBER	SPT per 6"	RECOVERY %	MOISTURE CONTENT	DRY DENSITY, pcf	POCKET PEN., tsf	UNCONF. COMP., tsf	LL	PL	PI	REMARKS
	0.3	Topsoil											
588.0	2.5		SS 1	3-5	44								
	5.0		SS 2	3-3	67								
	7.5		SS 3	6-7	10								
	10.0		SS 4	5-6	72								
	12.5		SS 5	10-16	19								
	15.0	Sand, very loose to dense, moist to wet below 6 ft, brown to gray below 6 ft, (possible fill to 6 ft, A-2-4, Lab No. 36200)	SS 6	9-16	22								
	17.5		SS 7	8-14	28								
	20.0		SS 8	9-20	27								
	22.5		SS 9	6-11	10								
	25.0		SS 10	5-9	12								
	27.5		SS 11	6-9	4								
	30.0	Silty Clay, very soft to stiff, moist, gray, A-4(5), Lab No. 36202	SS 12	2-2	72			0.75					

Continued on next page

LOG OF TEST BORING

Terracon CLIENT: Lochmueller Group, Inc. BORING NO.: **TB-02**
 SHEET 2 OF 3
 DES NO.: 1900009 STRUCTURE #: 020-45-02821 LONGITUDE: -87.46296
 LATITUDE: 41.61003
 PROJECT TYPE: Bridge Replacement DATE STARTED: 03-30-23
 COUNTY: Lake PROJECT NO.: CJ205119 DATE COMPLETED: 03-30-23

ELEVATION: 588.0 BORING METHOD: Hollow Stem Auger HAMMER: Auto
 STATION: 553+22 RIG TYPE: D-50 Track ATV DRILLER/INSP: J.S.
 OFFSET: 29.0 ft Left CASING DIA.: --- TEMPERATURE: 55 °F
 LINE: "A" CORE SIZE: --- WEATHER: Sunny
 DEPTH: 90.0 ft

GROUNDWATER: Encountered at 6.0 ft At completion NW Caved in at 10.0 ft

ELEVATION	SAMPLE DEPTH	SOILMATERIAL DESCRIPTION	SAMPLE NUMBER	SPT per 6"	RECOVERY %	MOISTURE CONTENT	DRY DENSITY, pcf	POCKET PEN., tsf	UNCONF. COMP., tsf	LL	PL	PI	REMARKS
555.0	32.5		SS 13	2-3	5	23.5		0.75					
550.0	37.5		SS 14	2-3	89	20.5	23.1	103.6	0.75	0.66			
545.0	42.5		ST 1	83	25.5	20.8	109.7	0.5	1.0	26	17	9	43.0, SG = 2.77, UI = 0.282 tsf
540.0	47.5		SS 15	2-3	4	20.5		1.0		24	17	7	45.0, pH = 7.5, SG = 2.77
535.0	52.5	Silty Clay, very soft to stiff, moist, gray, A-4(5), Lab No. 36202	SS 16	1-1	2	34.0	39.4	81.9	0.5	0.5			
530.0	57.5		SS 17	2-2	4	17.3		1.0					
525.0	62.5		ST 2	83	22.7	106.5		0.5	1.0				
	65.0		SS 19	2-2	83	24.1	24.6	89.8	0.75	0.75			

Continued on next page

LOG OF TEST BORING

Terracon CLIENT: Lochmueller Group, Inc. BORING NO.: **TB-02**
 SHEET 3 OF 3
 DES NO.: 1900009 STRUCTURE #: 020-45-02821 LONGITUDE: -87.46296
 LATITUDE: 41.61003
 PROJECT TYPE: Bridge Replacement DATE STARTED: 03-30-23
 COUNTY: Lake PROJECT NO.: CJ205119 DATE COMPLETED: 03-30-23

ELEVATION: 588.0 BORING METHOD: Hollow Stem Auger HAMMER: Auto
 STATION: 553+22 RIG TYPE: D-50 Track ATV DRILLER/INSP: J.S.
 OFFSET: 29.0 ft Left CASING DIA.: --- TEMPERATURE: 55 °F
 LINE: "A" CORE SIZE: --- WEATHER: Sunny
 DEPTH: 90.0 ft

GROUNDWATER: Encountered at 6.0 ft At completion NW Caved in at 10.0 ft

ELEVATION	SAMPLE DEPTH	SOILMATERIAL DESCRIPTION	SAMPLE NUMBER	SPT per 6"	RECOVERY %	MOISTURE CONTENT	DRY DENSITY, pcf	POCKET PEN., tsf	UNCONF. COMP., tsf	LL	PL	PI	REMARKS
520.0	67.5		SS 20	3-4	3	23.5	103.2	0.75	1.13				
515.0	72.5		SS 21	3-4	7	23.1		1.0					
510.0	77.5	Silty Clay, very soft to stiff, moist, gray, A-4(5), Lab No. 36202	SS 22	4-4	5	23.3		0.75					
505.0	82.5		SS 23	3-4	5	20.4	28.6	99.6	0.5				
500.0	87.5		SS 24	5-5	6	25.9		0.5					

Bottom of Boring at 90.0 ft

Date: Nov 21, 2023, 5:38pm User Name: Randy Killbase
 File: X:\Production\Files\2019\19-0350\CAD\Plans\Bt_Soil Borings.dwg

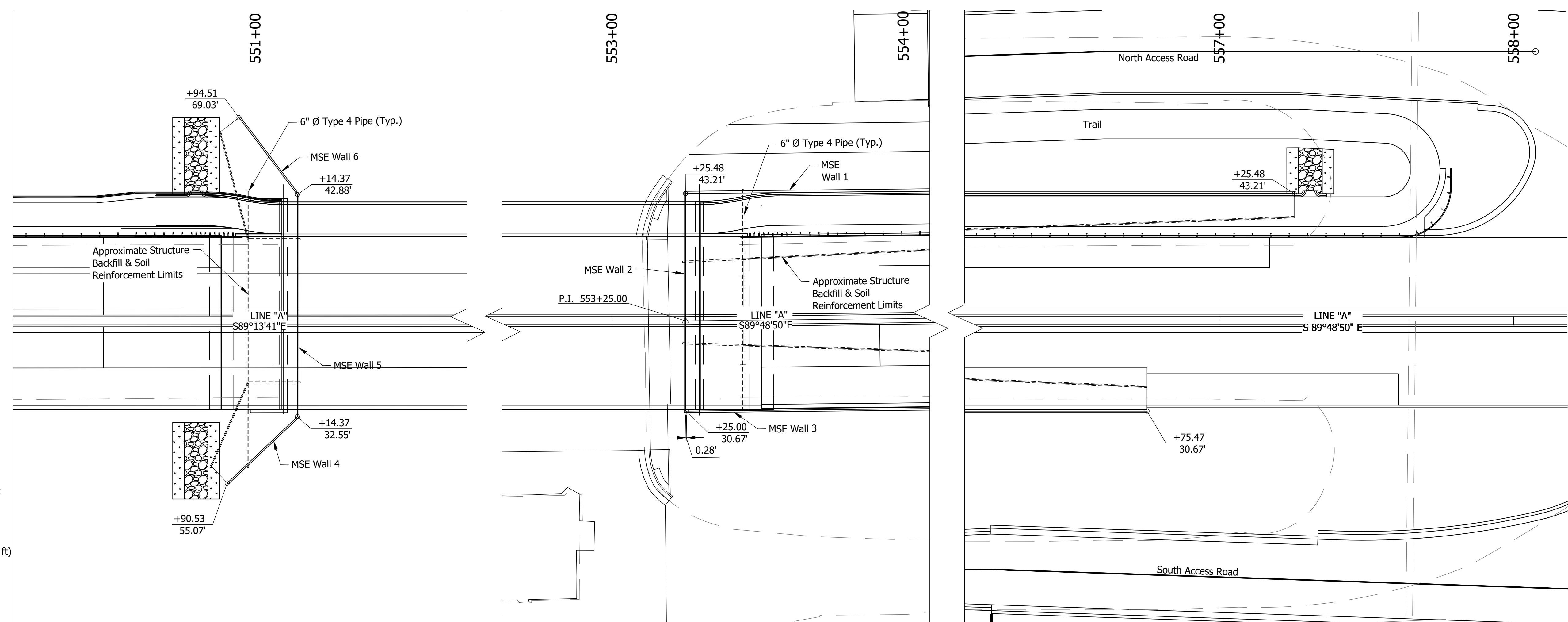
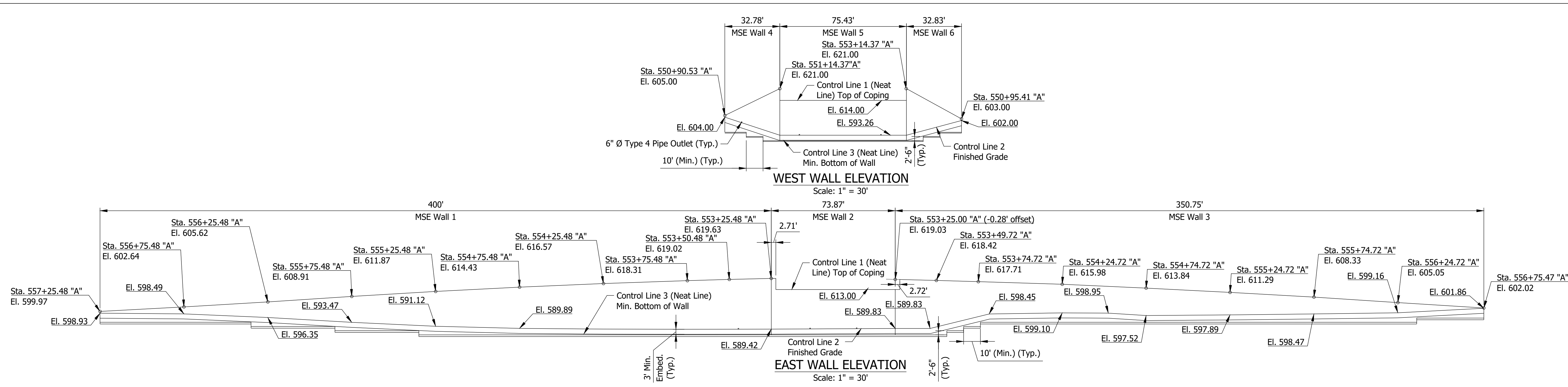
PRELIMINARY
 NOT FOR CONSTRUCTION
 DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	11/21/2023	DATE
DESIGNED: SCC	DRAWN: SCC		
CHECKED: BSS	CHECKED: BJS		

INDIANA
 DEPARTMENT OF TRANSPORTATION

SOIL BORINGS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	020-45-02821
VERTICAL SCALE	DESIGNATION
N/A	1900009
SURVEY BOOK	SHEET
ELECTRONIC	25 of 76
CONTRACT	PROJECT
B-43636	1900009



- NOTES:**
1. All stations and offsets in Plan View are taken from the back face of the MSE Wall.
 2. Invert elevations for 6" Ø Type 4 Pipe to be determined by Contractor.
 3. Factored Bearing Resistances for MSE Wall:
12,000 psf at bridge abutments (retained heights up to 33 ft)
10,000 psf for wall heights up to 26 ft
5,000 psf where eastern wall is bearing on a slope

Date: Nov 21, 2023, 5:25pm User Name: Randy Killbase
File: X:\Production\Files\20191219-0350\CAD Base\2190350\Cad\mfg\work.dwg

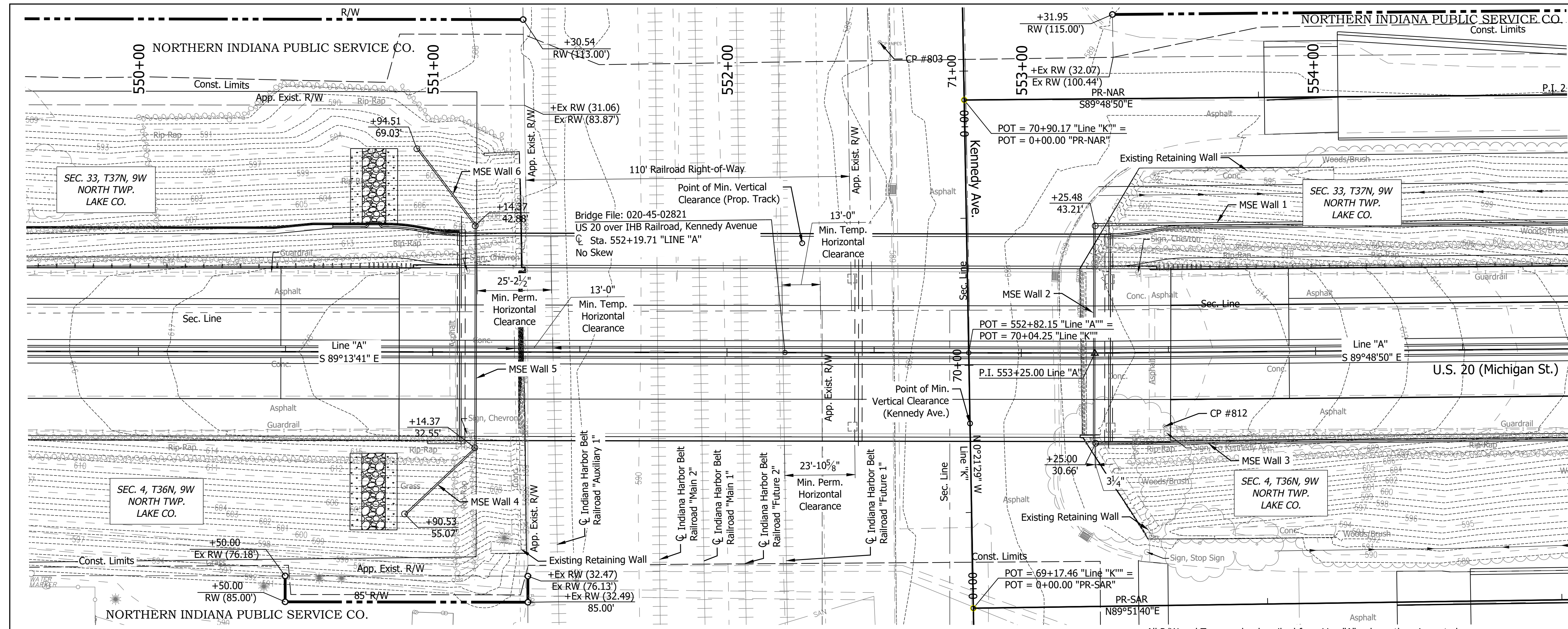
PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	11/21/2023	DATE
DESIGNED: SCC	DRAWN: SCC		
CHECKED: JMH	CHECKED: JMH		

**INDIANA
DEPARTMENT OF TRANSPORTATION**

MSE WALL DETAILS

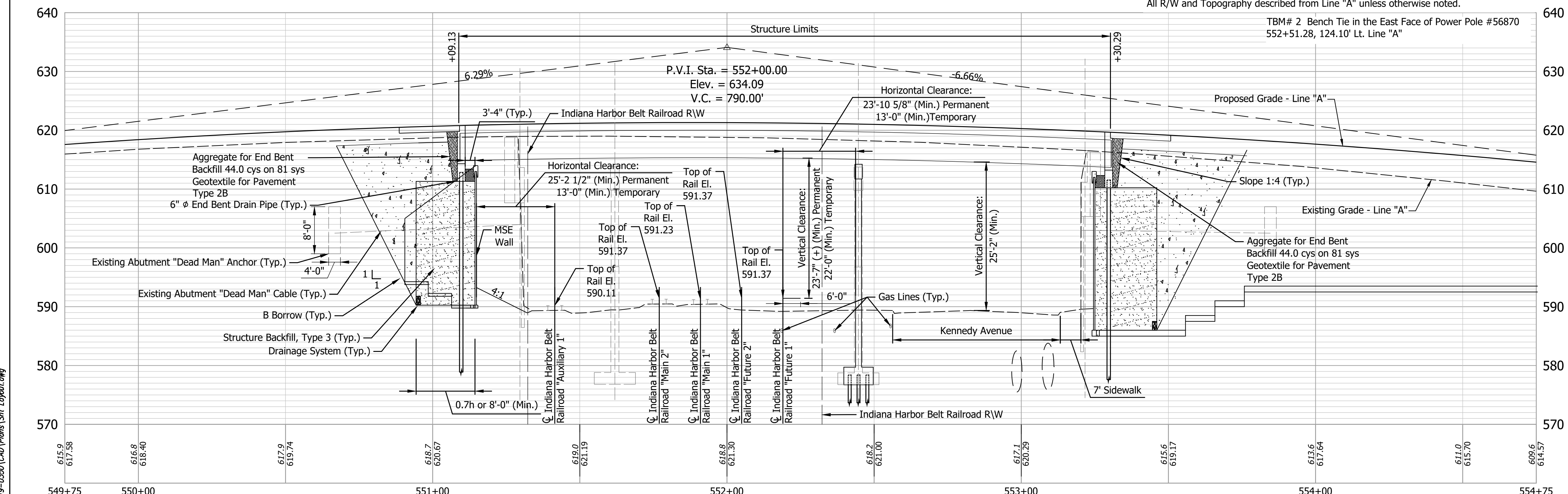
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	020-45-02821
VERTICAL SCALE	DESIGNATION
AS NOTED	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	26 of 76
CONTRACT	PROJECT
B-43636	1900009



EXISTING STRUCTURE
 The existing structure (Str. No. 020-45-02484 B) is a three-span AASHTO Type III Prestressed I-Beam bridge built between 1937 and 1944 and reconstructed in 1978. The existing structure has spans of 32'-3", 82'-9", and 77'-0" and a clear roadway width of 52'-0". Existing structure to be removed.

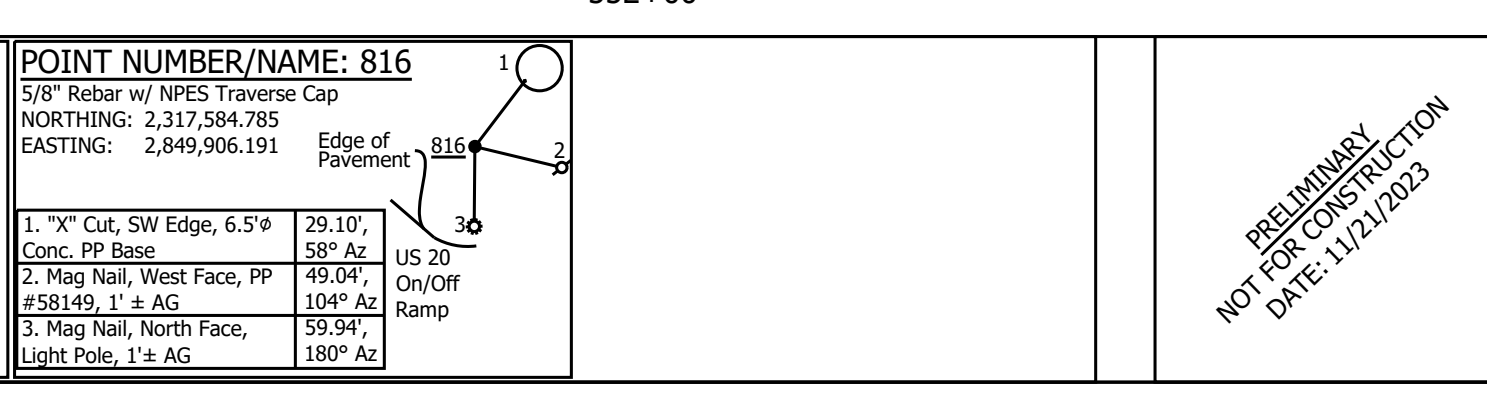
EARTHWORK TABULATION

FILL	--- CYS
FILL + 20%	--- CYS
COMMON EXCAVATION	--- CYS
USABLE WATERWAY EXCAVATION	--- CYS
BORROW	--- CYS
TOTAL WATERWAY EXCAVATION	--- CYS
EXCAVATION FOUNDATION UNCLASSIFIED	--- CYS
BENCHING (Estimated)	--- CYS
No direct payment for Benching. Benching will not be paid for as Common Excavation.	



CONTINUOUS COMPOSITE STEEL PLATE GIRDER BRIDGE
 2 SPANS: 135'-0", 85'-0"
 2 - 26'-8" CLEAR ROADWAY; NO SKEW
 US 20 OVER IHB RAILROAD, KENNEDY AVE.
 LAKE COUNTY

POINT NUMBER/NAME: 803 5/8" Rebar w/ NPES Traverse Cap NORTHING: 2,317,576.279 EASTING: 2,849,321.575	POINT NUMBER/NAME: 812 Mag Nail w/ NPES Traverse Washer NORTHING: 2,317,444.605 EASTING: 2,849,416.834	POINT NUMBER/NAME: 813 Mag Nail w/ NPES Traverse Cap NORTHING: 2,317,424.746 EASTING: 2,849,927.910	POINT NUMBER/NAME: 816 5/8" Rebar w/ NPES Traverse Cap NORTHING: 2,317,584.785 EASTING: 2,849,906.191
---	--	---	---



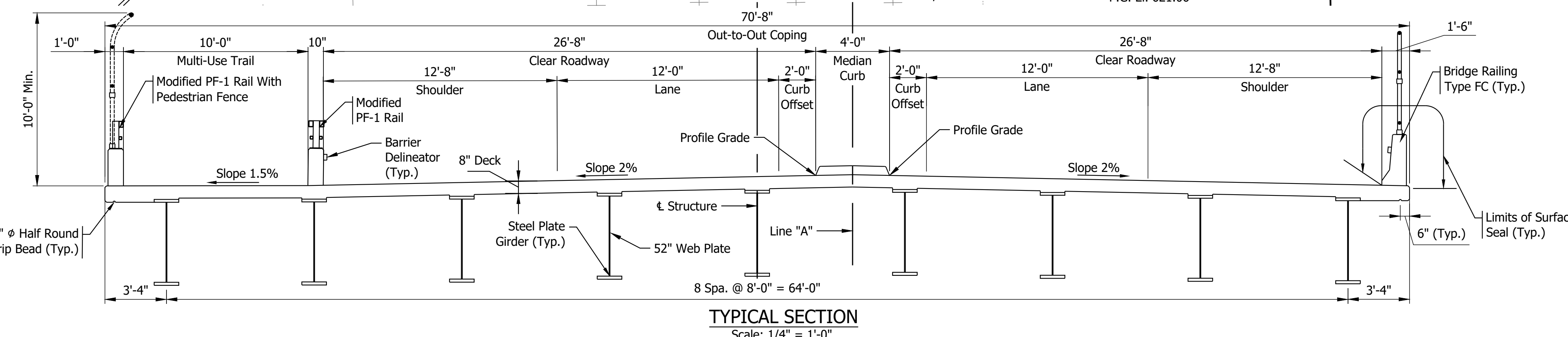
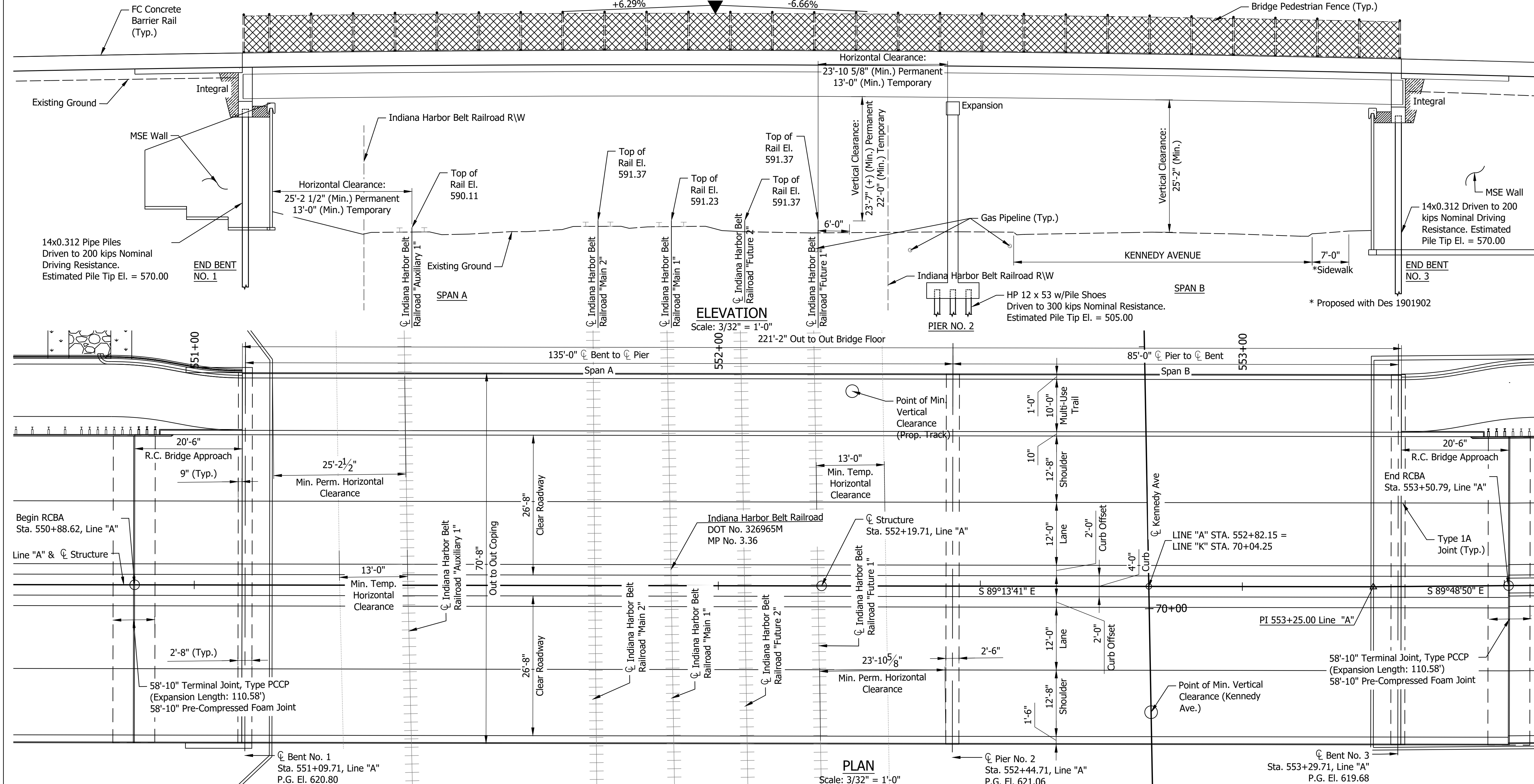
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: SCC	DRAWN: SCC	11/21/2023
CHECKED: JMH	CHECKED: JMH	

INDIANA DEPARTMENT OF TRANSPORTATION
LAYOUT

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	27 of 76
CONTRACT	PROJECT
B-43636	1900009

Date: Nov 21, 2023, 4:25pm User Name: RandyKilrose
 File: X:\Production\Files\2019-2020\CAD\Plans\SH Layout.dwg

STRUCTURE TO BE BUILT ON A 790' VERTICAL CURVE



GENERAL NOTES

Reinforcing steel cover shall be 2 1/2" in top and 1" minimum in bottom of floor slab, 3" in footings, except bottom steel which shall be 4", and 2" in all other parts, unless noted.

DESIGN DATA

Superstructure and substructure designed for HL-93 loading, in accordance with the AASHTO LRFD Design Specifications, Ninth Edition, 2020 and Subsequent Interims & Toll Road Live Load per INDOT Design Manual.

DEAD LOAD

Actual weight plus 35 lb/ft² for future wearing surface and 15 lb/ft² for permanent metal deck forms.

FLOOR SLAB

Designed with a 7 1/2" structural depth plus 1/2" sacrificial wearing surface.

DESIGN STRESSES

CONCRETE

Class C f_c = 4000 psi
 Class B f_c = 3000 psi
 Class A f_c = 3500 psi

REINFORCING STEEL

Grade 60 f_y = 60,000 psi

CONSTRUCTION LOADING

The exterior girder has been checked for strength, deflection, and overturning using the construction loads shown below. Cantilever overhang brackets were assumed for support of the deck overhang past the edge of the exterior girder. The finishing machine was assumed to be supported 6 in. outside the vertical coping form. The top overhang brackets were assumed to be located 6 in. past the edge of the vertical coping form. The bottom overhang brackets were assumed to be braced against the intersection of the girder bottom flange and web.

DECK FALSEWORK LOADS

Designed for 15 lb/ft² for permanent metal stay-in-place deck forms, removable deck forms, and 2-ft exterior walkway.

CONSTRUCTION LIVE LOAD

Designed for 20 lb/ft² extending 2-ft past the edge of coping and 75 lb/ft vertical force applied at a distance of 6 in. outside the face of coping over a 30-ft length of the deck centered with the finishing machine.

FINISHING-MACHINE LOAD

4500 lb distributed over 10 ft along the coping.

WIND LOAD

Designed for 70 mph horizontal wind loading in accordance with LRFD 3.8.1.

SEISMIC DESIGN DATA

Seismic Design Category: A
 Acceleration Coefficient: 0.090
 Seismic Soil Profile Type: Class D

CONTINUOUS COMPOSITE STEEL PLATE GIRDER BRIDGE
 2 SPANS: 135'-0", 85'-0"
 2 - 26'-8" CLEAR ROADWAY; NO SKEW
 US 20 OVER IHB RAILROAD, KENNEDY AVE.
 LAKE COUNTY

Date: Nov 21, 2023, 5:26pm User Name: Randy Killbase File: X:\Production\Files\20191219-0350\CAD\Plans\SHR-General Plan.dwg

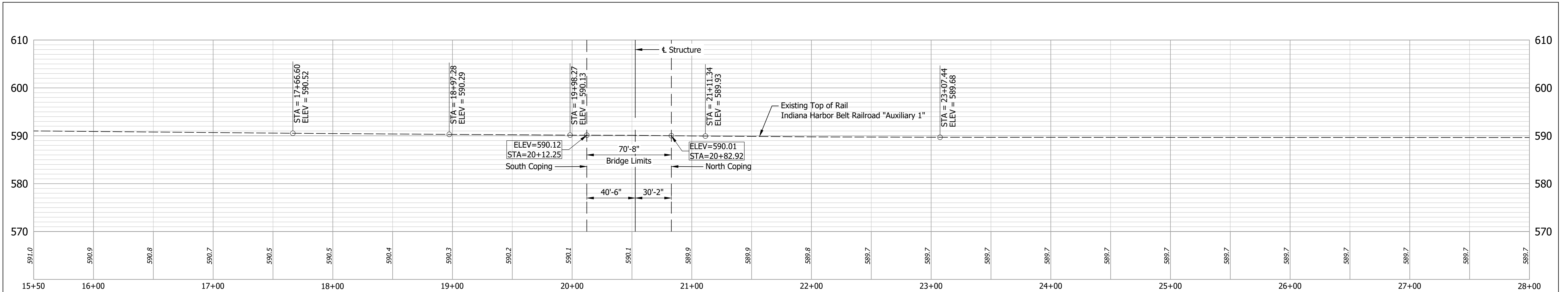
DATE	REVISION

PRELIMINARY NOT FOR CONSTRUCTION DATE: 11/21/2023

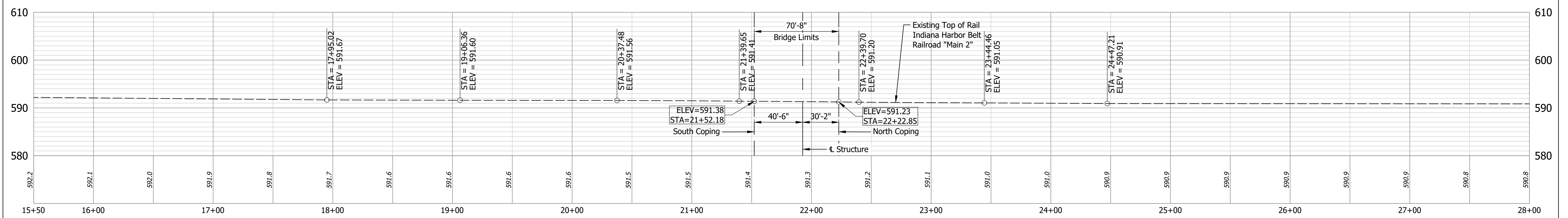
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	11/21/2023	DATE
DESIGNED: SCC	DRAWN: SCC		
CHECKED: JMH	CHECKED: JMH		

INDIANA DEPARTMENT OF TRANSPORTATION
 GENERAL PLAN

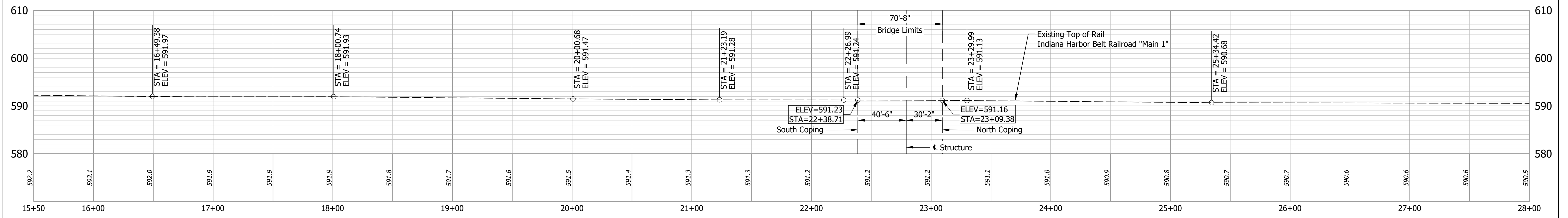
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	020-45-02821
VERTICAL SCALE	DESIGNATION
AS NOTED	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	28 of 76
CONTRACT	PROJECT
B-43636	1900009



TOP OF RAIL PROFILE IHB RAILROAD "AUXILIARY 1"



TOP OF RAIL PROFILE IHB RAILROAD "MAIN 2"



TOP OF RAIL PROFILE IHB RAILROAD "MAIN 1"

The elevation of the existing top-of-rail profile shall be verified before beginning construction. All discrepancies shall be brought to the attention of the Indiana Harbor Belt Manager of Public Works.

Date: Nov 21, 2023, 5:26pm User Name: Randy Killbase File: X:\Production\Files\191219-0350\CAD\Plans\IHB Rail Profiles.dwg

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	11/21/2023	DATE
DESIGNED: SCC	DRAWN: SCC		
CHECKED: JMH	CHECKED: JMH		

INDIANA DEPARTMENT OF TRANSPORTATION

**INDIANA HARBOR BELT RAILROAD
TOP OF RAIL PROFILES**

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 10'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	29 of 76
CONTRACT	PROJECT
B-43636	1900009

PAVEMENT QUANTITIES AND APPROACH TABLE

Main table with columns: LOCATION, DESCRIPTION, WIDTH, LENGTH, RADII, SURFACE BEYOND R/W LINE, GRADE, EXCAVATION, PCCP FOR APPROACHES, HMA MATERIALS, HMA MATERIALS, REMARKS. Includes line items for 'Line A', 'Line PR-NAR', and 'Line PR-SAR'.

Date: Nov 21, 2023, 5:26pm User Name: Randy Killbase File: X:\Production\Files\2019\19-0350\CAD\Plans\SR_Road_Summary.dwg

PRELIMINARY NOT FOR CONSTRUCTION DATE: 11/21/2023

RECOMMENDED FOR APPROVAL 11/21/2023 DESIGN ENGINEER DATE
DESIGNED: JRM DRAWN: JRM
CHECKED: BSS CHECKED: BJS

INDIANA DEPARTMENT OF TRANSPORTATION
APPROACH TABLE

HORIZONTAL SCALE BRIDGE FILE
N/A 020-45-02821
VERTICAL SCALE DESIGNATION
N/A 1900009
SURVEY BOOK SHEETS
ELECTRONIC 31 of 76
CONTRACT PROJECT
B-43636 1900009

PAVEMENT MARKINGS SUMMARY OF QUANTITIES

LOCATION	LINE PAINT		MULTI-COMPONENT				THERMOPLASTIC				TRANSVERSE MARKINGS THERMOPLASTIC STOP LINE		MULTI-COMPONENT TRANSVERSE MARKINGS CROSSHATCH LINE		THERMOPLASTIC TRANSVERSE MARKINGS CROSSHATCH LINE		PAVEMENT MESSAGE THERMOPLASTIC LANE INDICATION ARROW	PAVEMENT MESSAGE THERMOPLASTIC WORD "ONLY"	SNOWBLOWABLE RAISED PAVEMENT MARKERS
	SOLID WHITE 6 in	SOLID YELLOW 6 in	SOLID WHITE 6 in	SOLID YELLOW 6 in	SOLID WHITE 8 in	SOLID YELLOW 8 in	SOLID WHITE 6 in	BROKEN YELLOW 6 in	BROKEN WHITE 8 in	BROKEN YELLOW 8 in	SOLID WHITE 12 in	SOLID WHITE 24 in	SOLID YELLOW 8 in	SOLID YELLOW 12 in	SOLID WHITE 4 in	SOLID WHITE 8 in	EACH	EACH	EACH
	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft			
Line "A"																			
540+75.00 to 544+97.42			845	845															
544+97.42 to 546+97.48			405	405										227					
546+97.48 to 550+88.62			782	777															
550+88.62 to 553+50.82			524	524															
553+50.82 to 559+50.00			1,262	1,198								16							
559+50.00 to 560+94.00			494	288								12	243						
560+94.00 to 562+50.00			293	312									66						
Line "NAR"																			
1+02.00 to 5.26.21									846										
Ramp WB							171												
Ramp EB							223												
Line "SAR"																			
1+44.00 to 5+55.09									844										
Ramp WB							271												
Ramp EB							208												
Total			4,606	4,350			872	1,690				28	536						

R/W MARKER TABLE

Line	Station	Offset

SHEET SIGN & POST SUMMARY

SIGN					POST													
PLAN SHEET NO. / LINE	SIGN LOCATION (STA.)	SIGN CODE	SIGN SIZE (IN. x IN.)	GROUND - MOUNTED SIGN AREA (ft²)			MOUNTED ON PANEL SIGN, AREA (ft²)	SQUARE										
				0.080"	0.100"	0.125"	0.080"	2 1/2" X 2 1/2" - 12 GA. (TYPE 3)			2" X 2" - 12 GA. (TYPE 2)			2 1/4" X 2 1/4" - 12 GA. (TYPE 1)				
				UNREINFORCED ANCHOR			REINFORCED ANCHOR			UNREINFORCED ANCHOR			REINFORCED ANCHOR			REINFORCED ANCHOR		
				POST LENGTH (FT.)			POST LENGTH (FT.)			POST LENGTH (FT.)			POST LENGTH (FT.)			POST LENGTH (FT.)		
				1	2	TOTAL	1	2	TOTAL	1	2	TOTAL	1	2	TOTAL	1	2	TOTAL

SURVEY MONUMENT TABLE

STATION	LINE	OFFSET	SECTION CORNER	TYPE			
				A	B	C	D
TOTALS	0	0	0	0	0	0	0

NOTE TO REVIEWER
Incomplete Summary Tables will be filled in for later submittals.

Date: Nov 21, 2023, 5:26pm User Name: Randy Killbase
File: X:\Production\Files\2019\19-0350\CAD\Plans\BTR_Road Summary.dwg

PRELIMINARY NOT FOR CONSTRUCTION DATE: 11/21/2023	RECOMMENDED FOR APPROVAL _____ 11/21/2023 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION ROAD SUMMARY	HORIZONTAL SCALE _____ BRIDGE FILE N/A 020-45-02821
	DESIGNED: _____ JRM DRAWN: _____ JRM		VERTICAL SCALE _____ DESIGNATION N/A 1900009
CHECKED: _____ BSS	CHECKED: _____ BJS	SURVEY BOOK SHEETS	ELECTRONIC 32 of 76
		CONTRACT PROJECT	B-43636 1900009

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION				PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE	LENGTH	SKEW	FLOW LINE			SERVICE LIFE	SITE DESIGNATION	PH	BACKFILL METHOD	STRUCTURE BACKFILL	REVTMENT RIPRAP	CONCRETE CLASS A. FOR STR.	VIDEO INSPECTION	PIPE END SECTION	GRATED BOX END SECTION			SAFETY METAL END SECTION			CONNECT TO STRUCTURE	REMARKS						
	STATION	LEFT	CROSS	RIGHT					SIZE	LFT	COVER										UP STREAM	DOWN STREAM	YR	TYPE	SLOPE	EA.			TYPE	SLOPE	EA.	TYPE	SLOPE	EA.
Line "A"																																		
95	547+00			X	12	2							7					55											96					
96	547+00	X			12	2							7					27	1									Outlet						
101	550+80	X			12	2							7					33	1									Outlet						
102	550+80		X		12	2							7					23	1									Outlet						
103	553+54	X			12	2							7					237										106						
104	553+54		X		12	2							7					52										103						
106	555+91	X			12	2							7					50										108						
107	556+41		X		12	2							7					50										109						
108	556+41	X			12	2							7					50										111						
109	556+91		X		12	2							7					50										113						
111	556+91	X			12	2							7					50										112						
112	557+41	X			12	2							7					41										206						
113	557+41		X		12	2							7					52										112						
114	557+91		X		12	2							7					50										113						
115	562+10	X			12	2							7					9										116						
116	562+19	X			12	2							7					64	1									Outlet						
201	553+19	X			12	2							7					8										Ex. Str. 30911						
Line "PR-NAR"																																		
202	0+38		X		12	2							7					36										201						
203	1+18		X		12	2							7					11										204						
204	1+25		X		12	2							7					87										202						
205A	1+32		X		12	2							7					14										204						
206	4+60		X		12	2							7					335										204						
Line "PR-SRA"																																		
301	0+61		X		12	2							7					20										Ex. Str. 82033						
302	0+61	X			12	2							7					35										301						
303	1+78	X			12	2							7					117										302						
TOTAL																	1556	4																

Date: Nov 21, 2023, 5:27pm User Name: Randy Killbase
File: X:\Production\Files\2019\19-0350\CAD\Plans\SR Road Summary.dwg

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

RECOMMENDED FOR APPROVAL _____ 11/21/2023
DESIGN ENGINEER DATE

DESIGNED: _____ JRM DRAWN: _____ JRM
CHECKED: _____ BSS CHECKED: _____ BJS

INDIANA
DEPARTMENT OF TRANSPORTATION

STRUCTURE DATA TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	020-45-02821
VERTICAL SCALE	DESIGNATION
N/A	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	33 of 76
CONTRACT	PROJECT
B-43636	1900009

PIPE MATERIALS

STRUCTURE NUMBER	95	96	101	102	103	104	106	107	108	109	111	112	113	114	115	116	201	202	203	204	205A	206	301	302
PIPE TYPE / SHAPE (CIR or DEF)	2 / Circular	2 / Circular	2 / Circular	2 / Circular	2 / Circular	2 / Circular	2 / Circular	2 / Circular	2 / Circular	2 / Circular	2 / Circular	2 / Circular	2 / Circular	2 / Circular	2 / Circular	2 / Circular	2 / Circular	2 / Circular	2 / Circular	2 / Circular	2 / Circular	2 / Circular	2 / Circular	2 / Circular
SMOOTH PIPE SIZE	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
CORRUGATED PIPE SIZE																								
SEMI-SMOOTH PIPE SIZE																								
RCP/RCHP (S)	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II
CLASS	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)																								
CORRUGATED PE PIPE, TYPE S (S)*	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X		X
PROFILE WALL (RIBBED) PE PIPE (S)*																								
PROFILE WALL (CLOSED) PE PIPE (S)*																								
SMOOTH WALL PE PIPE (S)* / MAXIMUM DR	X / 26	X / 26	X / 26	X / 26	X / 26	X / 26	X / 26	X / 26	X / 26	X / 26	X / 26	X / 26	X / 26	X / 26		X / 26	X / 26	X / 26		X / 26	X / 26	X / 26		X / 26
CORRUGATED PP PIPE (S)	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X		X
PROFILE WALL PVC PIPE (S)	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X		X
SMOOTH WALL PVC PIPE (S)*	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X		X
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)																								
FULLY BIT. PAVED & LINED (S)																								
ZINC COATED (C)																								
ZINC COATED W/ BPI (C)																								
ALUM. COATED TYPE 2 (C)																								
POLYMER PRECOATED GALVANIZED (C)																								
POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)																								
CORRUGATED ALUM. ALLOY (C)																								
CORRUGATED ALUM. ALLOY W/ BPI (C)																								
ZINC COATED (SS)																								
ZINC COATED W/ BPI (SS)																								
ALUM. COATED TYPE 2 (SS)																								
POLYMER PRECOATED GALVANIZED (SS)																								
STR. PLATE ALUMINUM ALLOY (C)																								
STR. PLATE ALUMINUM ALLOY W/ CFP (C)																								
STR. PLATE STEEL (C)																								
STR. PLATE STEEL W/ CFP (C)																								

LEGEND

PIPE MATERIAL

- RCP Reinforced Concrete Pipe
- RCHP Reinforc
- PE Polyethyl
- DR Dimension Ratio
- PVC Polyvinyl Chloride
- PP Polypropylene
- CORR Corrugation
- ALUM Aluminum
- STR Structural
- (LS) Lock Seam Pipe Required

PIPE PROTECTION

- BPI Bituminous Paved Invert
- CFP Concrete Field Paving
- BIT Bituminous

SHAPE

- CIR Circular Pipe
- DEF Deformed Pipe

INTERIOR DESIGNATION

- (S) Smooth Pipe Material
- (C) Corrugated Pipe Material
- (SS) Semi-Smooth Pipe Material

PIPE SIZE

- Circular pipe is shown as diameter in inches
- Deformed pipe is shown as area in square feet

Date: Nov 21, 2023, 5:27pm User Name: Randy Killbase File: X:\Production\Files\2019\19-0350\CAD\Plans\BTR_Road_Summary.dwg

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

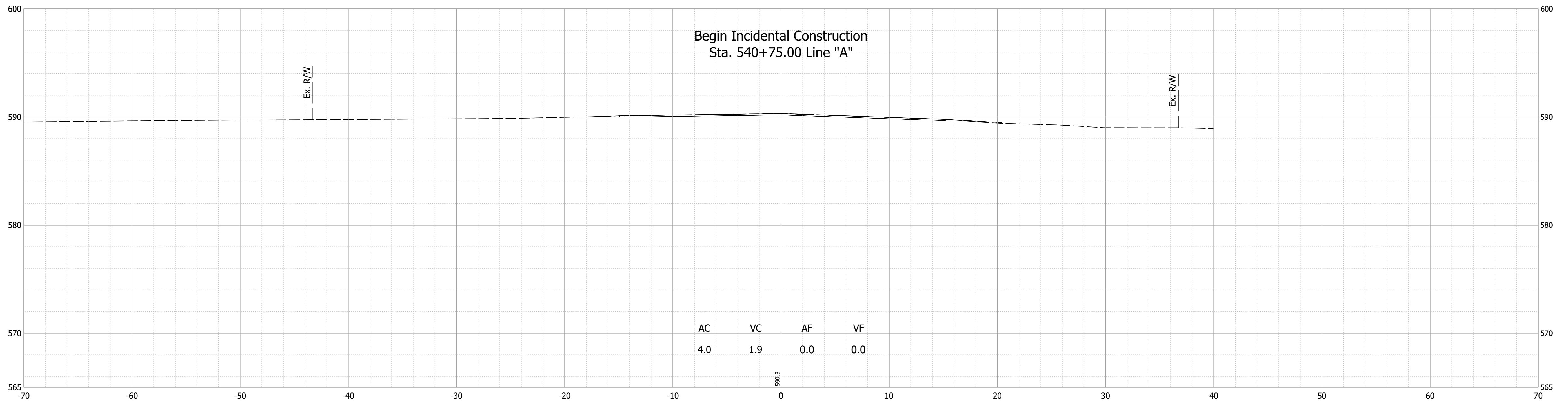
RECOMMENDED FOR APPROVAL _____	11/21/2023
DESIGN ENGINEER _____	DATE _____
DESIGNED: JRM	DRAWN: JRM
CHECKED: BSS	CHECKED: BJS

INDIANA
DEPARTMENT OF TRANSPORTATION

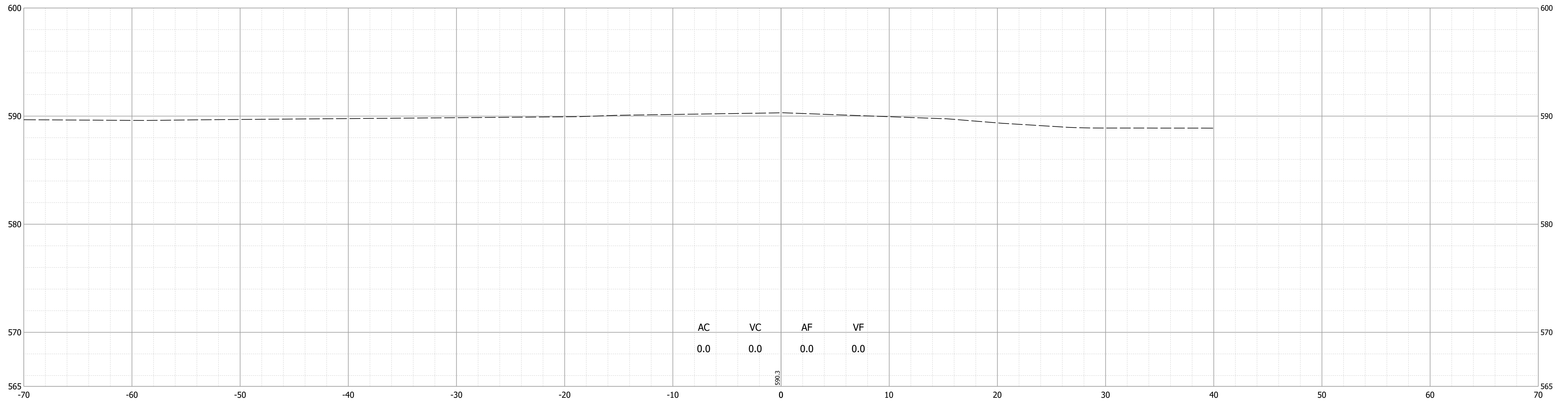
PIPE MATERIAL TABLE

HORIZONTAL SCALE	BRIDGE FILE
NA	020-45-02821
VERTICAL SCALE	DESIGNATION
NA	1900009
SURVEY BOOK	SHEETS
ELECTRONIC	34 of 76
CONTRACT	PROJECT
B-43636	1900009

540+75



540+50



Date: Nov 21, 2023 5:36pm User Name: mackley
File: X:\Production\Files\20191219-0350\CAD\Crosssect\US 20 Cross Sections.dwg

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

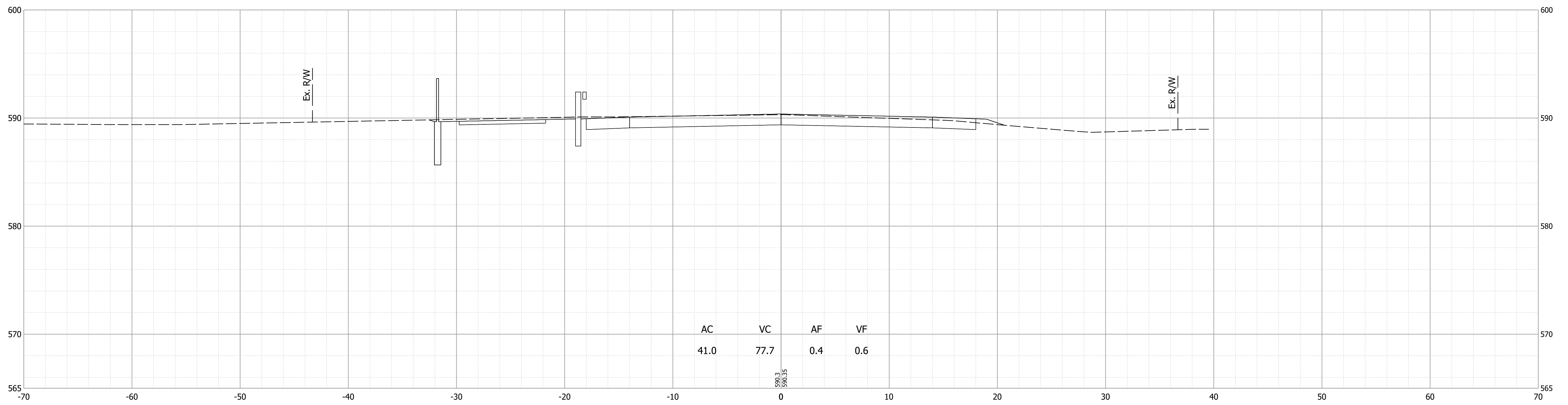
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
		11/21/2023
DESIGNED: JAG	DRAWN: JAG	
CHECKED: BSS	CHECKED: BJS	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A"

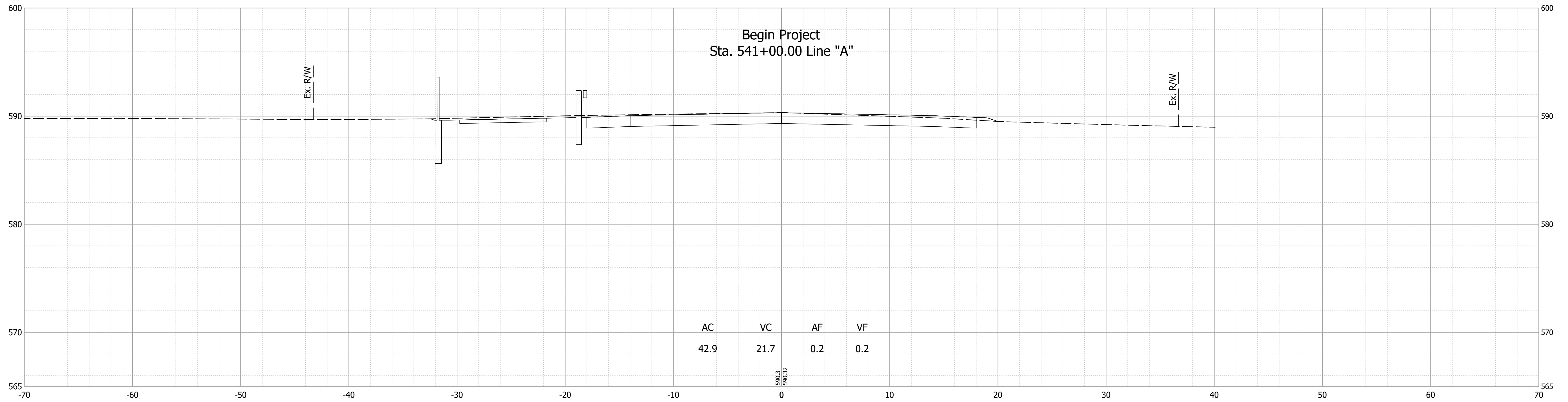
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1" = 5'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	35 of 76
CONTRACT	PROJECT
B-43636	1900009

541+50



541+00

Begin Project
Sta. 541+00.00 Line "A"



Date: Nov 21, 2023 5:36pm User Name: mackley
File: X:\Production\Files\20191219-0350\CAD\CrossSection\US 20 Cross Sections.dwg

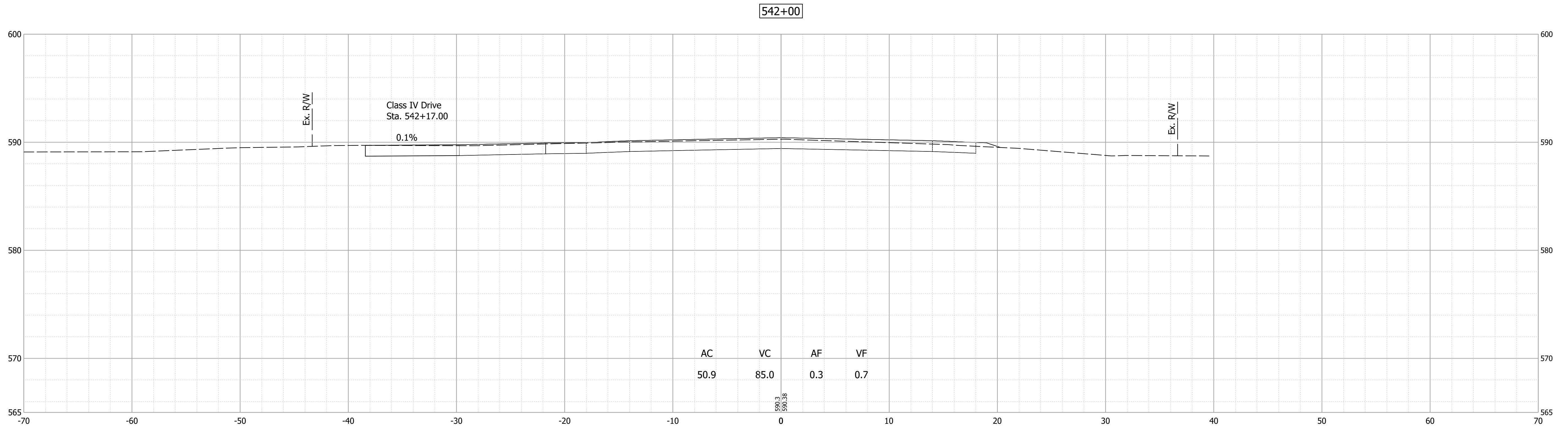
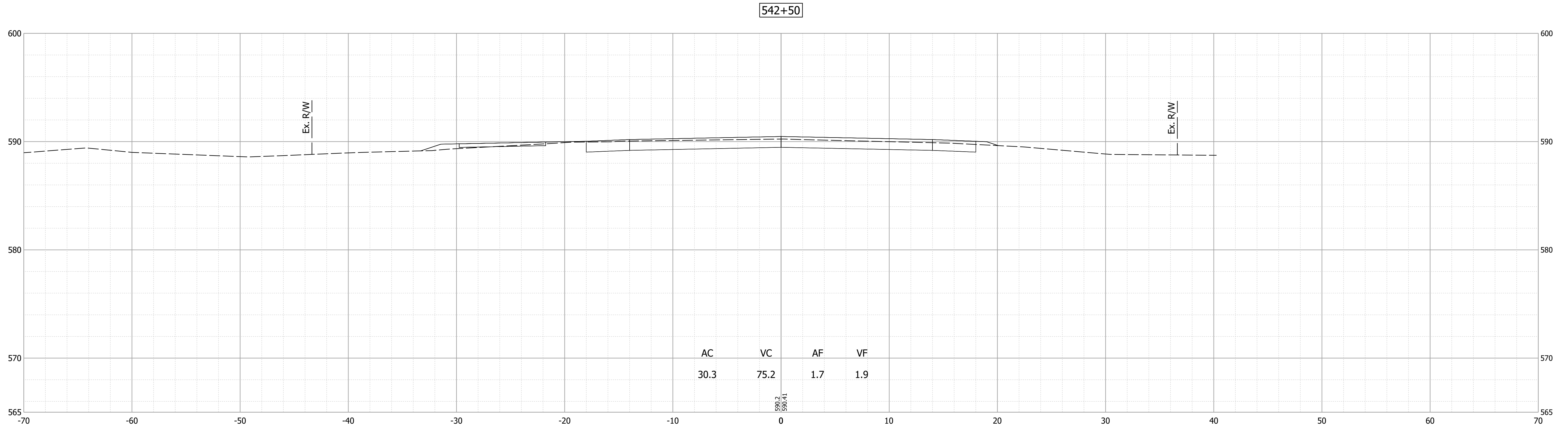
PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
		11/21/2023
DESIGNED: JAG	DRAWN: JAG	
CHECKED: BSS	CHECKED: BJS	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	36 of 76
CONTRACT	PROJECT
B-43636	1900009



Date: Nov 21, 2023 5:36pm User Name: mackley
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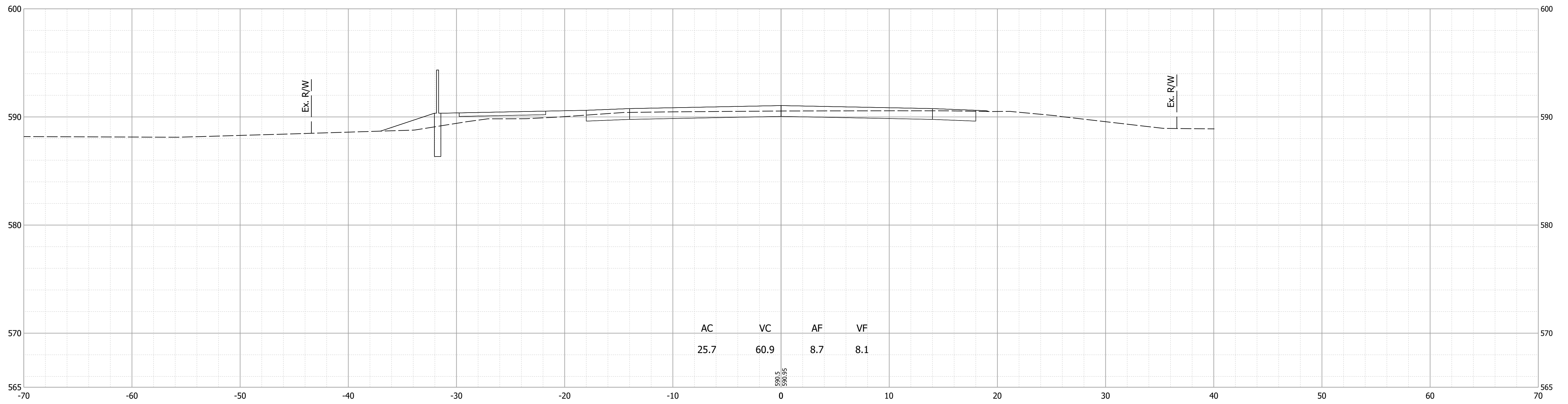
PRELIMINARY
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 DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JAG	DRAWN: JAG	11/21/2023
CHECKED: BSS	CHECKED: BJS	

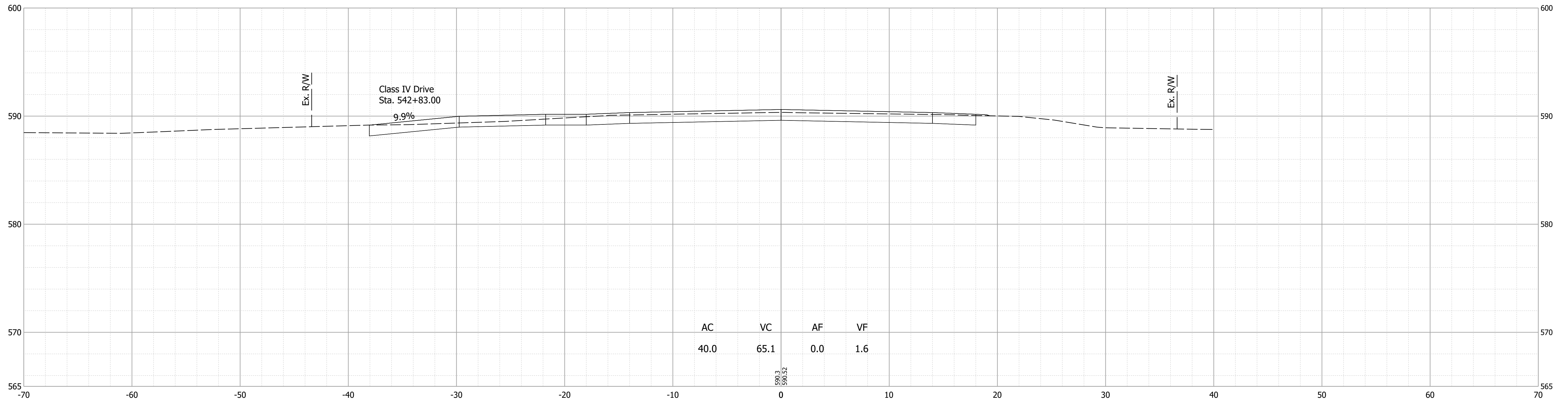
INDIANA
 DEPARTMENT OF TRANSPORTATION
 CROSS SECTIONS
 LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	37 of 76
CONTRACT	PROJECT
B-43636	1900009

543+50



543+00



Date: Nov 21, 2023 5:37pm User Name: mackley
File: X:\Production\Files\2019\19-0350\CAD\CrossSection\US 20 Cross Sections.dwg

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

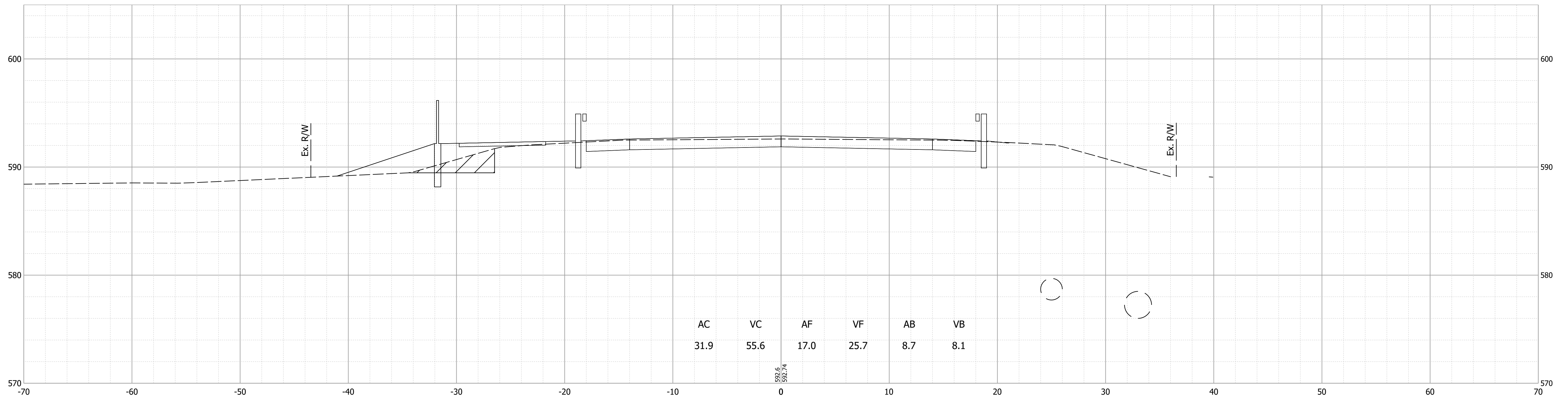
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	11/21/2023	DATE
DESIGNED: JAG	DRAWN: JAG		
CHECKED: BSS	CHECKED: BJS		

INDIANA
DEPARTMENT OF TRANSPORTATION

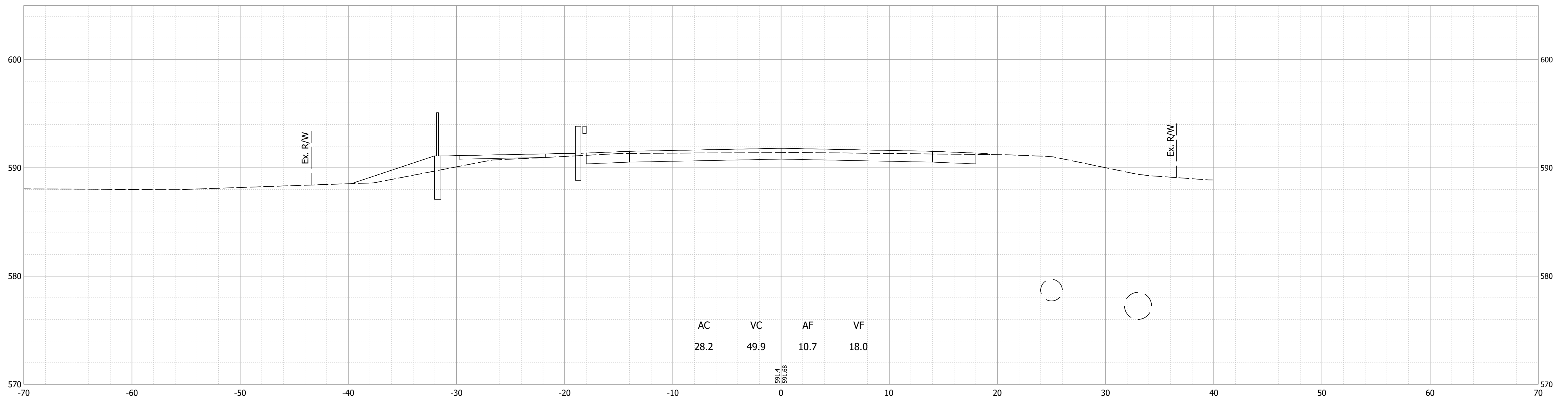
CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	38 of 76
CONTRACT	PROJECT
B-43636	1900009

544+50



544+00



Date: Nov 21, 2023 5:37pm User Name: mackley File: X:\Production\Files\20191219-0350\CAD\Crosssect\US 20 Cross Sections.dwg

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

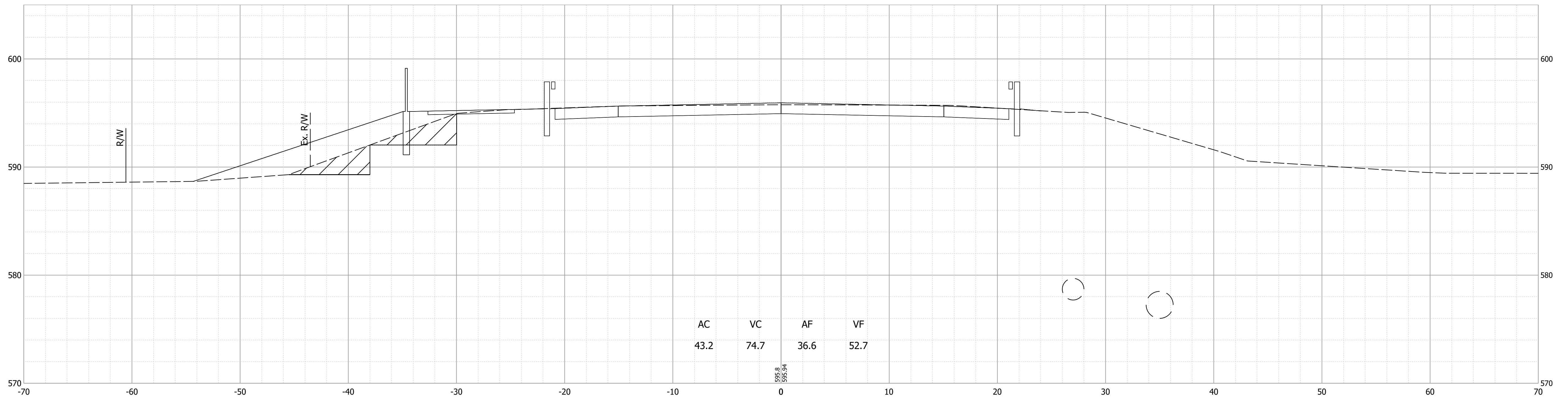
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JAG	DRAWN: JAG	11/21/2023
CHECKED: BSS	CHECKED: BJS	

INDIANA DEPARTMENT OF TRANSPORTATION

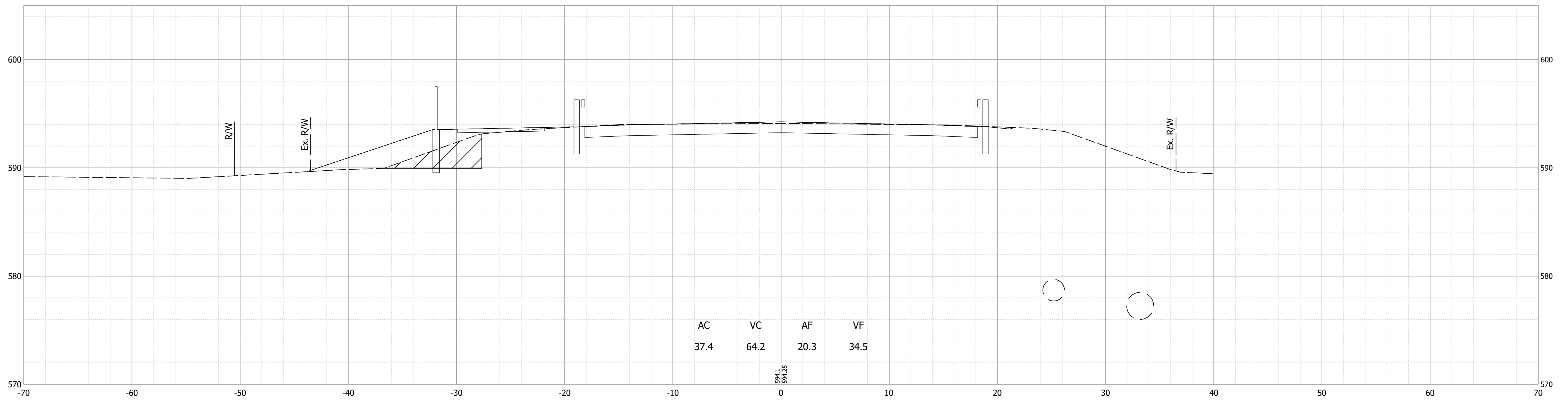
CROSS SECTIONS LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	39 of 76
CONTRACT	PROJECT
B-43636	1900009

545+50



545+00



Date: Nov 21, 2023 5:37pm User Name: mackley File: X:\Production\Files\20191219-0350\CAD\CrossSection\US 20 Cross Sections.dwg

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

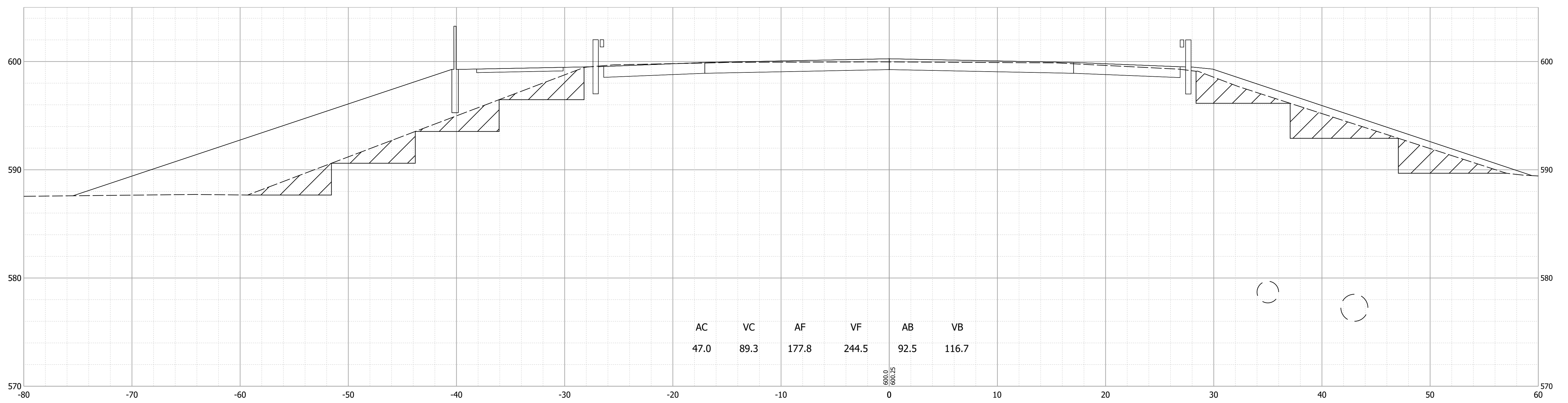
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
		11/21/2023
DESIGNED: JAG	DRAWN: JAG	
CHECKED: BSS	CHECKED: BJS	

INDIANA DEPARTMENT OF TRANSPORTATION

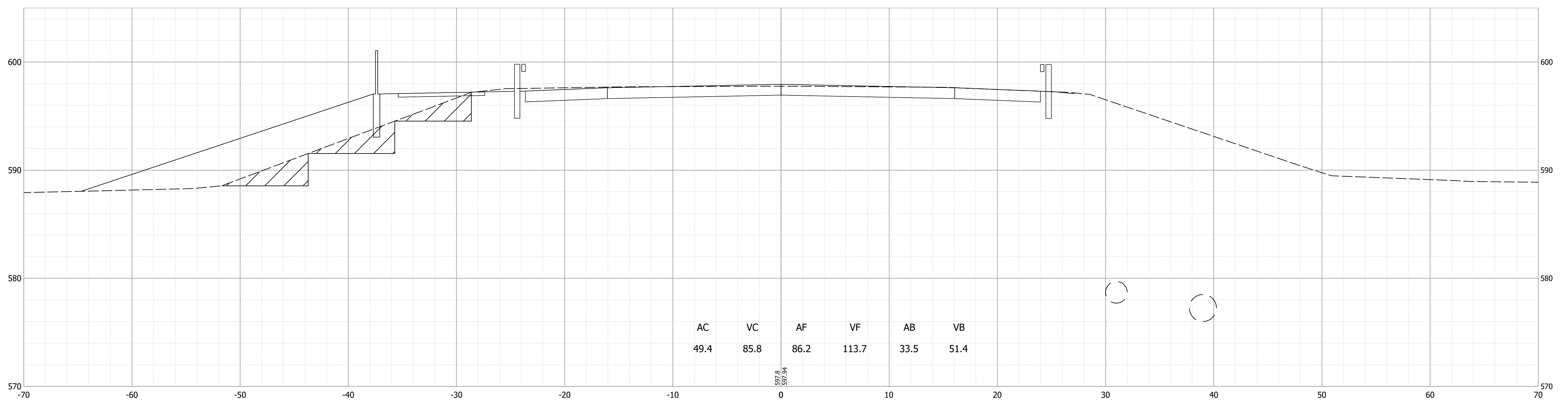
CROSS SECTIONS LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	40 of 76
CONTRACT	PROJECT
B-43636	1900009

546+50



546+00



Date: Nov 21, 2023 5:37pm User Name: mackley
File: X:\Production\Files\2019\19-0350\CAD\Crosssect\US 20 Cross Sections.dwg

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

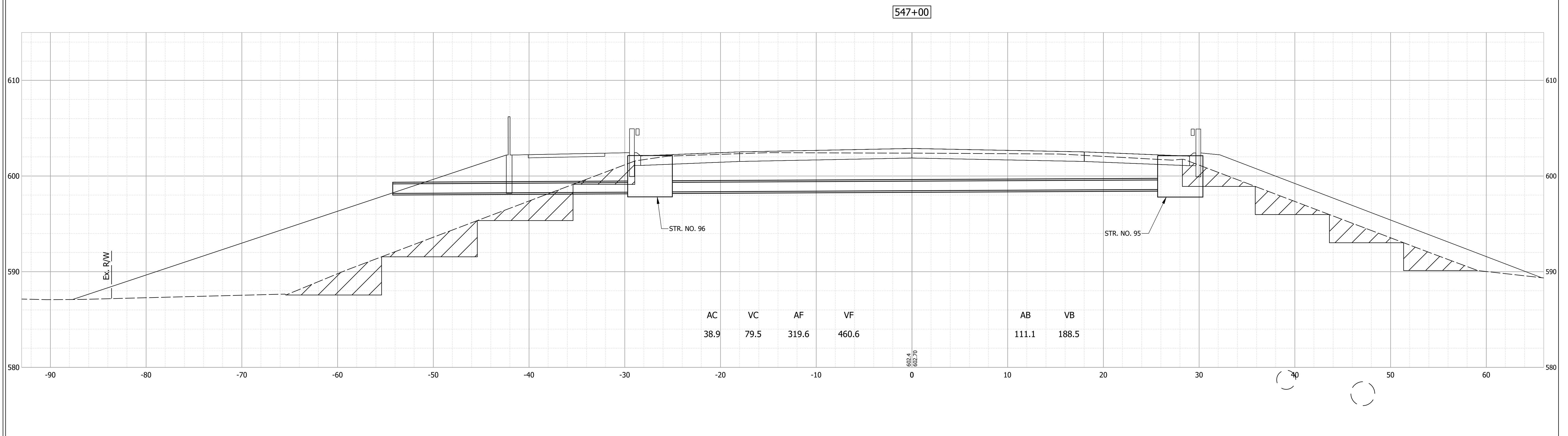
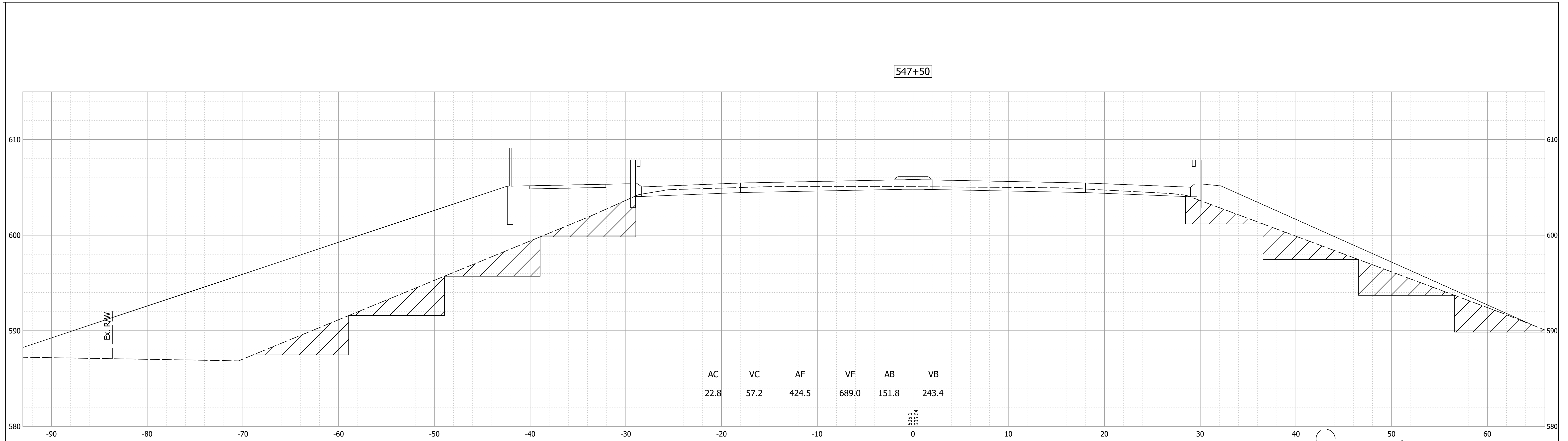
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JAG	DRAWN: JAG	
CHECKED: BSS	CHECKED: BJS	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	41 of 76
CONTRACT	PROJECT
B-43636	1900009

Date: Nov 21, 2023 5:37pm User Name: mackley
 File: X:\Production\Files\20191219-0350\CAD\Crosssect\US 20 Cross Sections.dwg

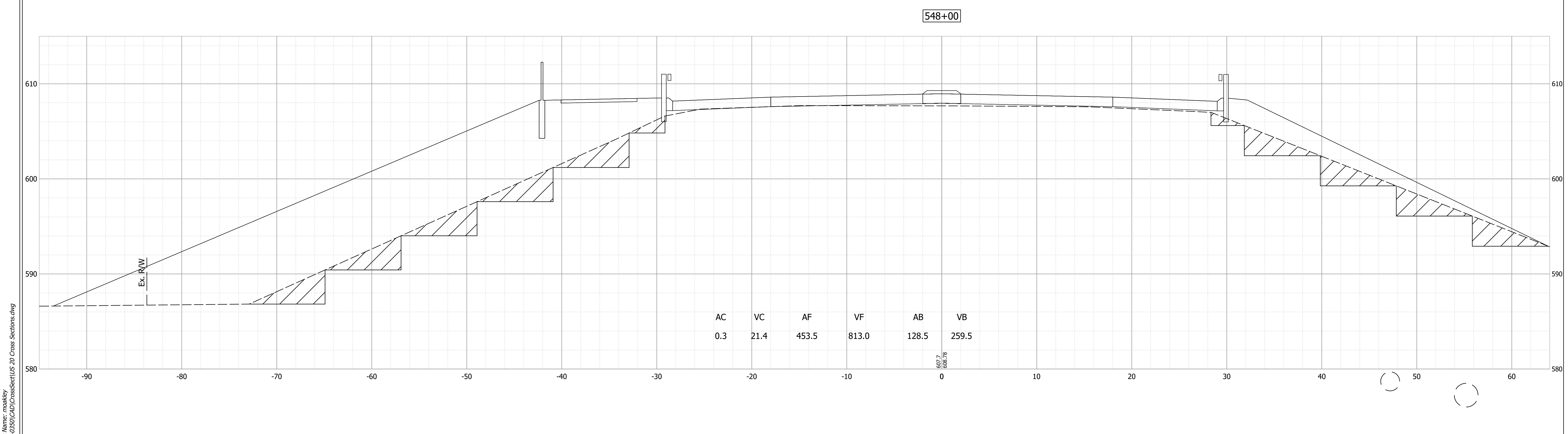
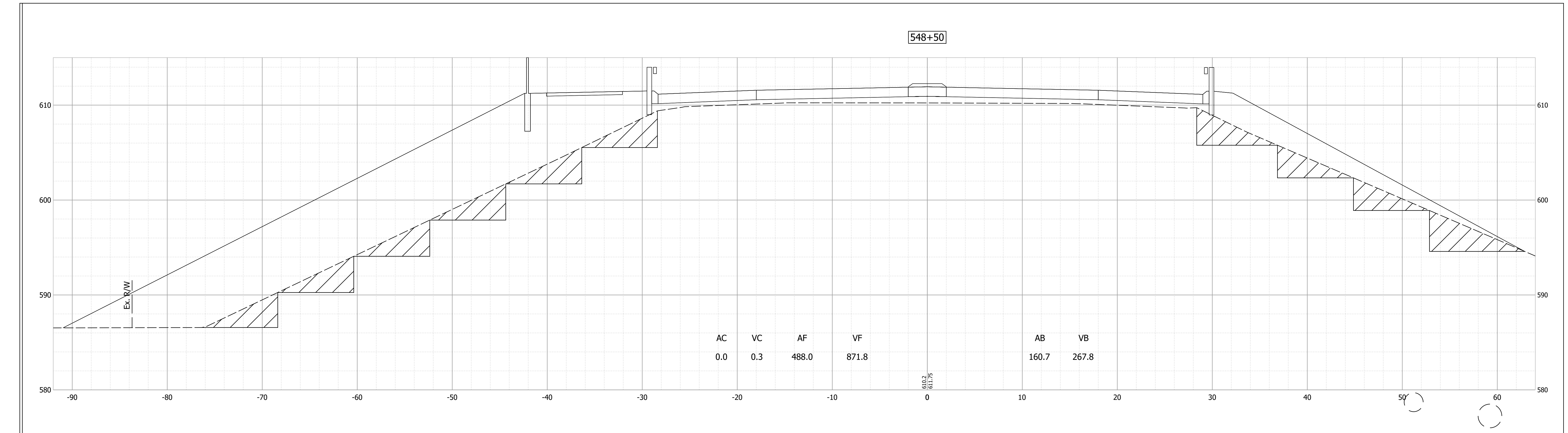


PRELIMINARY
 NOT FOR CONSTRUCTION
 DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: MJO	DRAWN: JAG	11/21/2023
CHECKED: BSS	CHECKED: BJS	

INDIANA
 DEPARTMENT OF TRANSPORTATION
 CROSS SECTIONS
 LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	42 of 76
CONTRACT	PROJECT
B-43636	1900009



Date: Nov 21, 2023 5:37pm User Name: mcaakley
File: X:\Production\Files\20191219-0350\CAD\CrossSection\US 20 Cross Sections.dwg

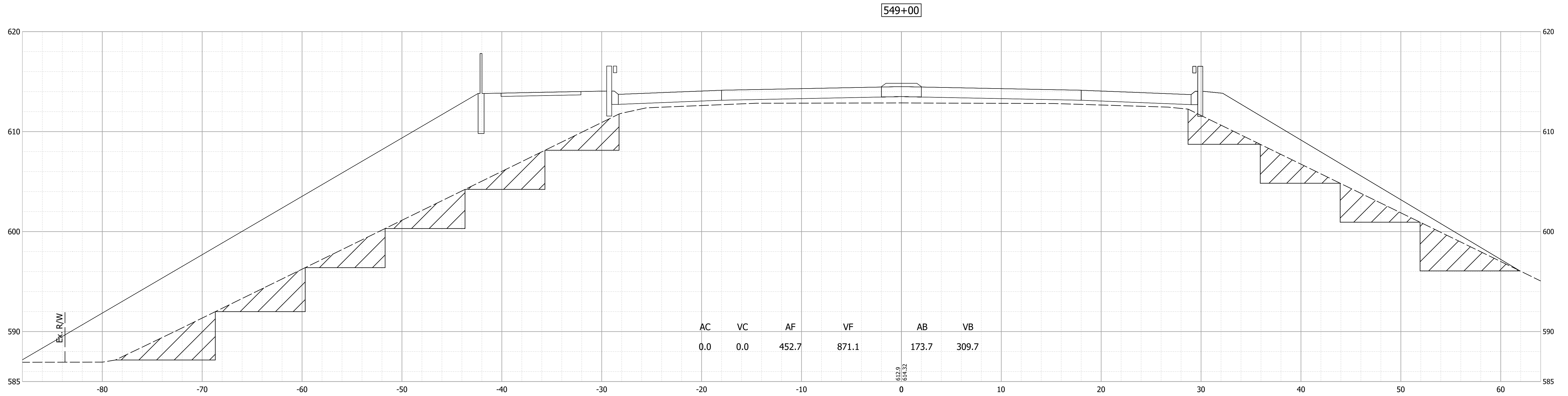
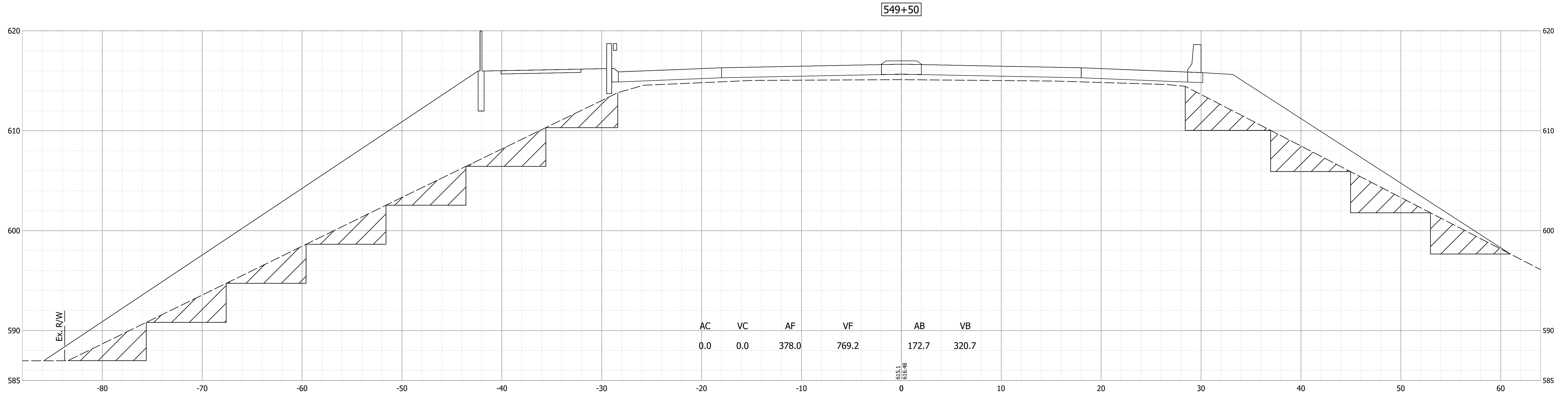
PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
		11/21/2023
DESIGNED: JAG	DRAWN: JAG	
CHECKED: BSS	CHECKED: BJS	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	43 of 76
CONTRACT	PROJECT
B-43636	1900009



Date: Nov 21, 2023 5:37pm User Name: mackley
File: X:\Production\Files\20191219-0350\CAD\Crosssect\US 20 Cross Sections.dwg

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

RECOMMENDED FOR APPROVAL _____ 11/21/2023
DESIGN ENGINEER DATE

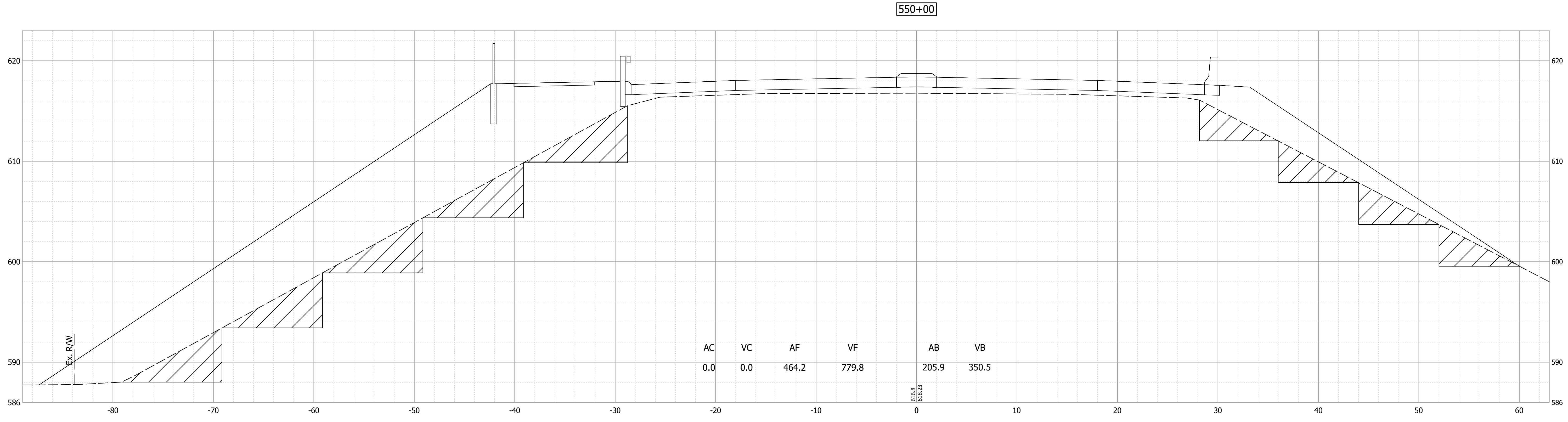
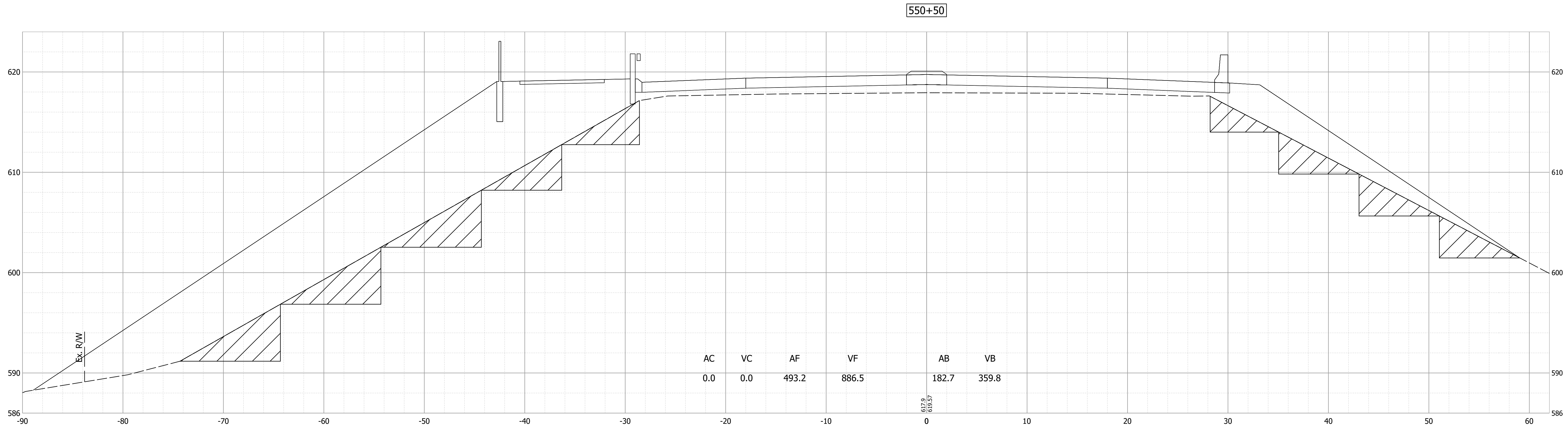
DESIGNED: JAG DRAWN: JAG
CHECKED: BSS CHECKED: BJS

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 020-45-02821
VERTICAL SCALE 1" = 5'	DESIGNATION 1900009
SURVEY BOOK ELECTRONIC	SHEET 44 of 76
CONTRACT B-43636	PROJECT 1900009

Date: Nov 21, 2023 5:37pm User Name: mackley
 File: X:\Production\Files\2019\19-0350\CAD\CrossSection\US 20 Cross Sections.dwg



PRELIMINARY
 NOT FOR CONSTRUCTION
 DATE: 11/21/2023

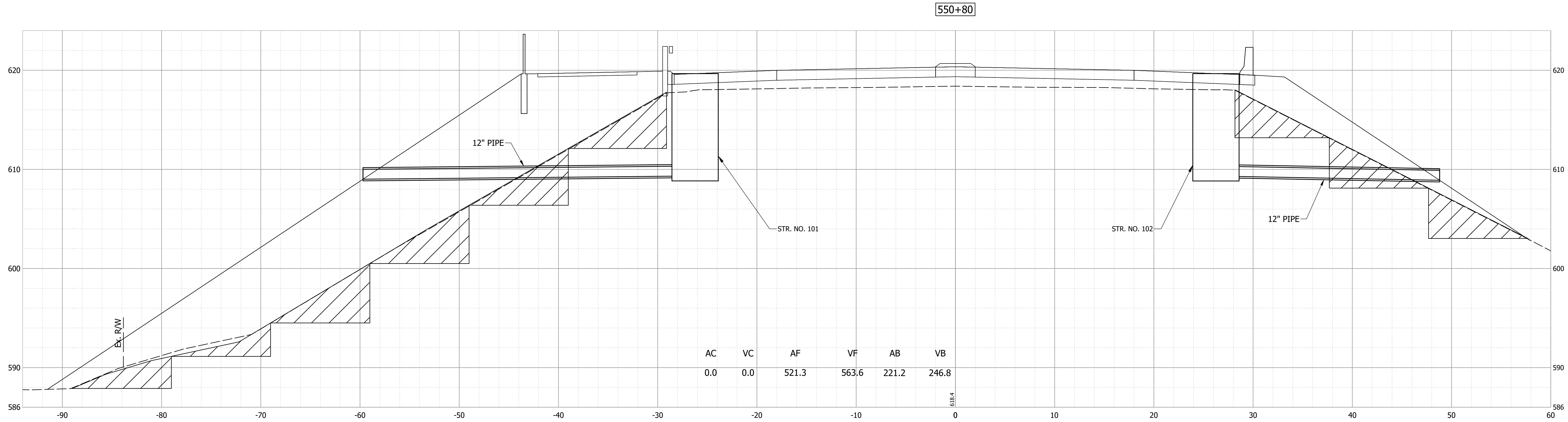
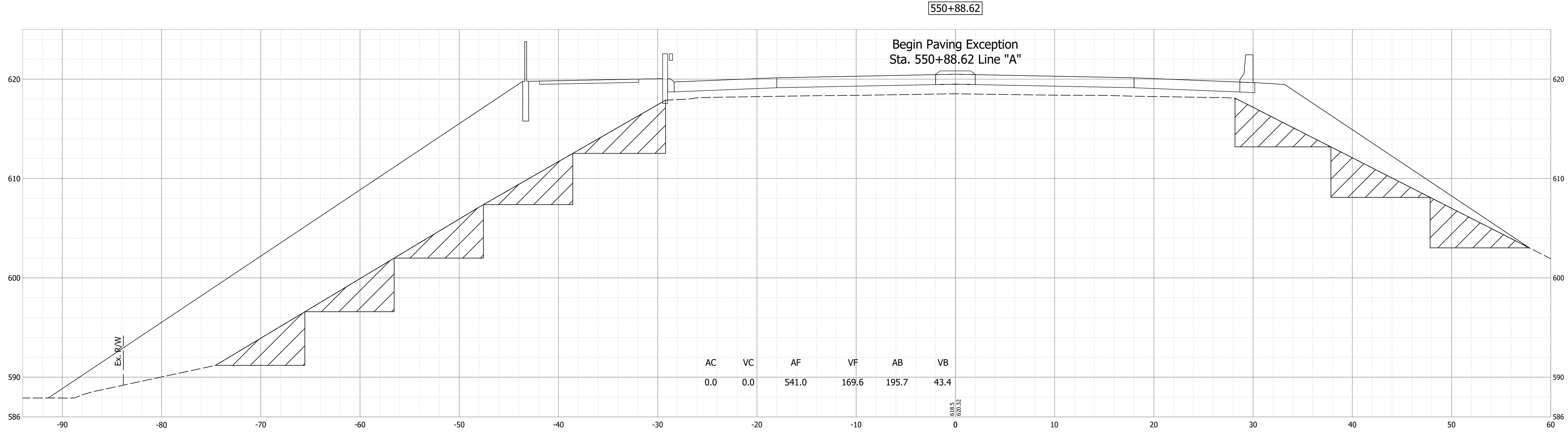
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JAG	DRAWN: JAG	11/21/2023
CHECKED: BSS	CHECKED: BJS	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A"

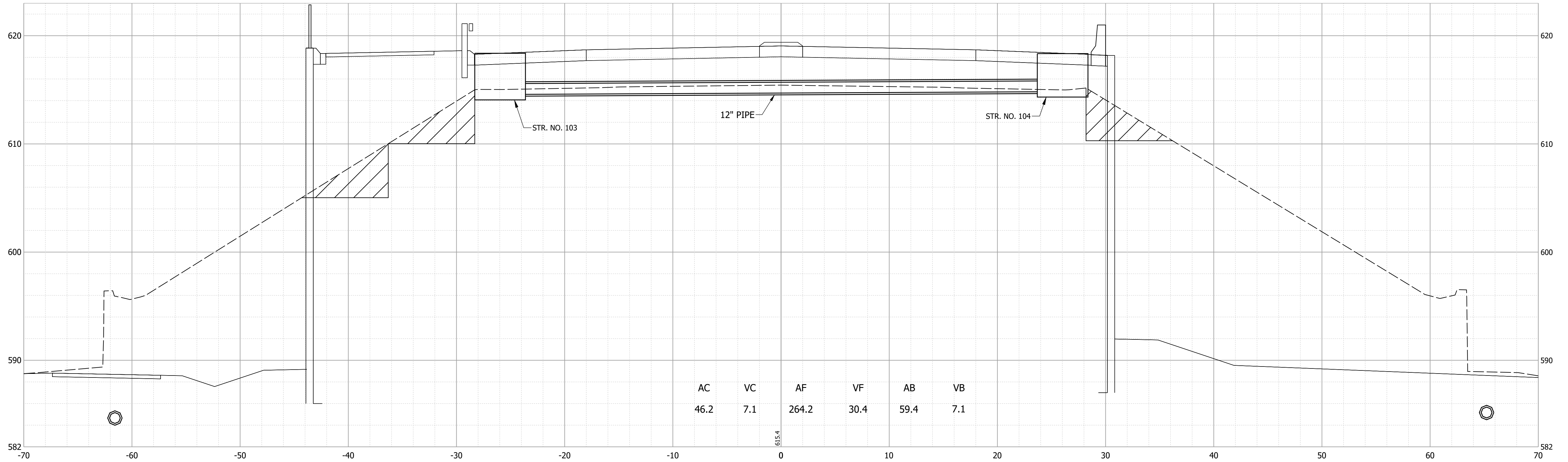
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	45 of 76
CONTRACT	PROJECT
B-43636	1900009

Date: Nov 21, 2023 5:37pm User Name: maaakley
 File: X:\Production\Files\2019\19-0350\CAD\CrossSection\US 20 Cross Sections.dwg



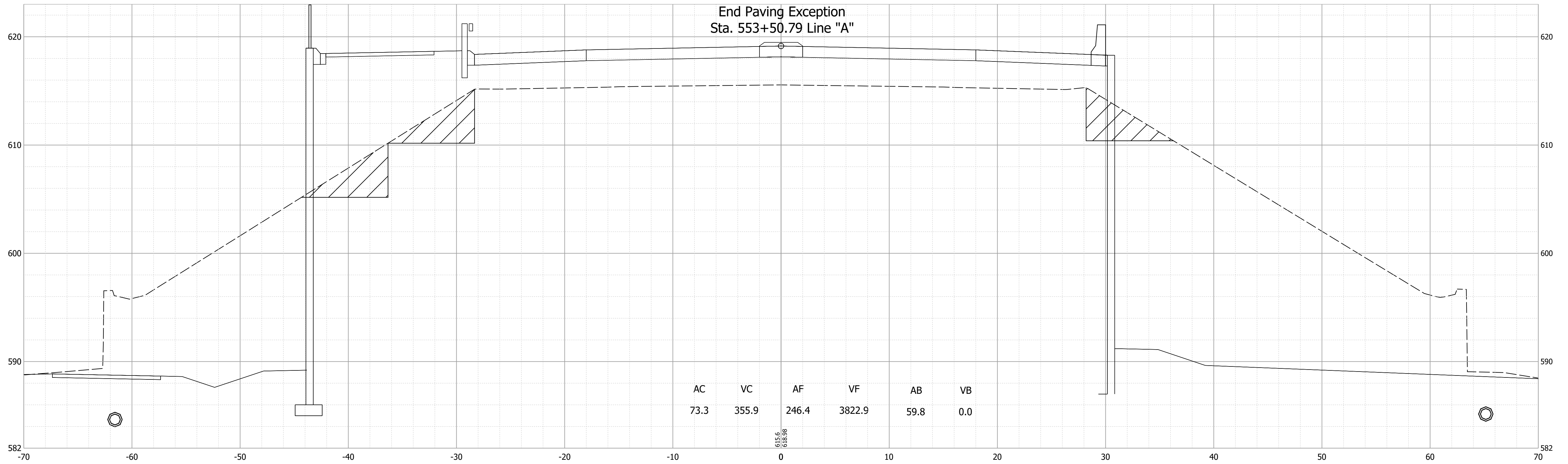
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	<p>DESIGNED: JAG DRAWN: JAG</p> <p>CHECKED: BSS CHECKED: BJS</p>		<p>VERTICAL SCALE 1" = 5'</p>	<p>DESIGNATION 1900009</p>
			<p>SURVEY BOOK ELECTRONIC</p>	<p>SHEET 46 of 76</p>
			<p>CONTRACT B-43636</p>	<p>PROJECT 1900009</p>

553+54



553+50.79

End Paving Exception
Sta. 553+50.79 Line "A"



Date: Nov 21, 2023 5:37pm User Name: mackley
File: X:\Production\Files\2019\19-0350\CAD\CrossSection\US 20 Cross Sections.dwg

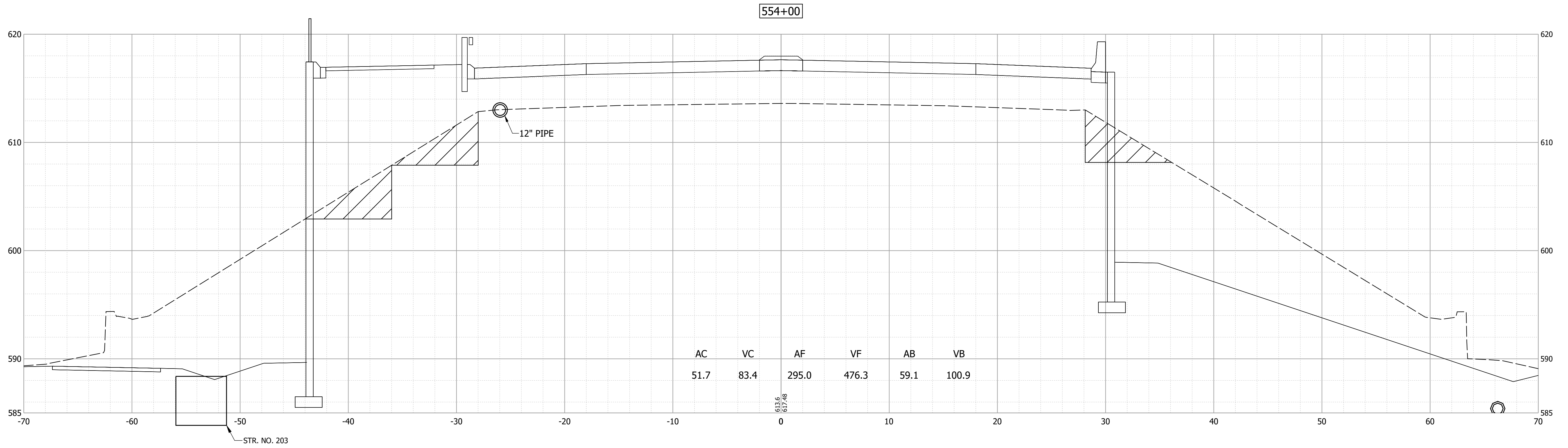
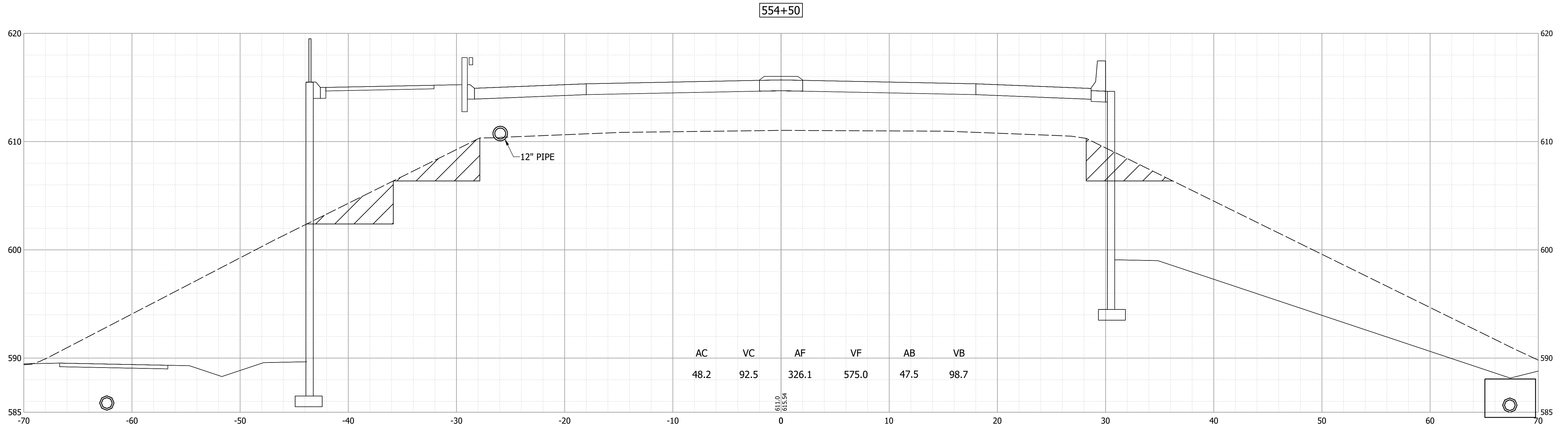
PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
	JAG	11/21/2023
DESIGNED:	DRAWN:	
JAG	JAG	
CHECKED:	CHECKED:	
BSS	BJS	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	47 of 76
CONTRACT	PROJECT
B-43636	1900009



Date: Nov 21, 2023 5:37pm User Name: mackley
 File: X:\Production\Files\2019\19-0350\CAD\CrossSection\US 20 Cross Sections.dwg

PRELIMINARY
 NOT FOR CONSTRUCTION
 DATE: 11/21/2023

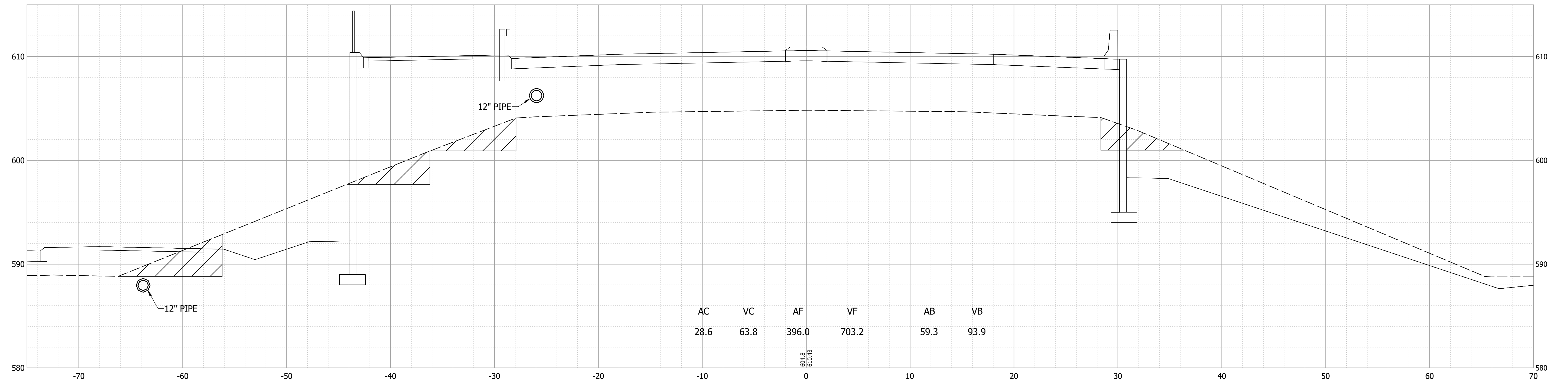
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
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DESIGNED: JAG	DRAWN: JAG	
CHECKED: BSS	CHECKED: BJS	

INDIANA
 DEPARTMENT OF TRANSPORTATION

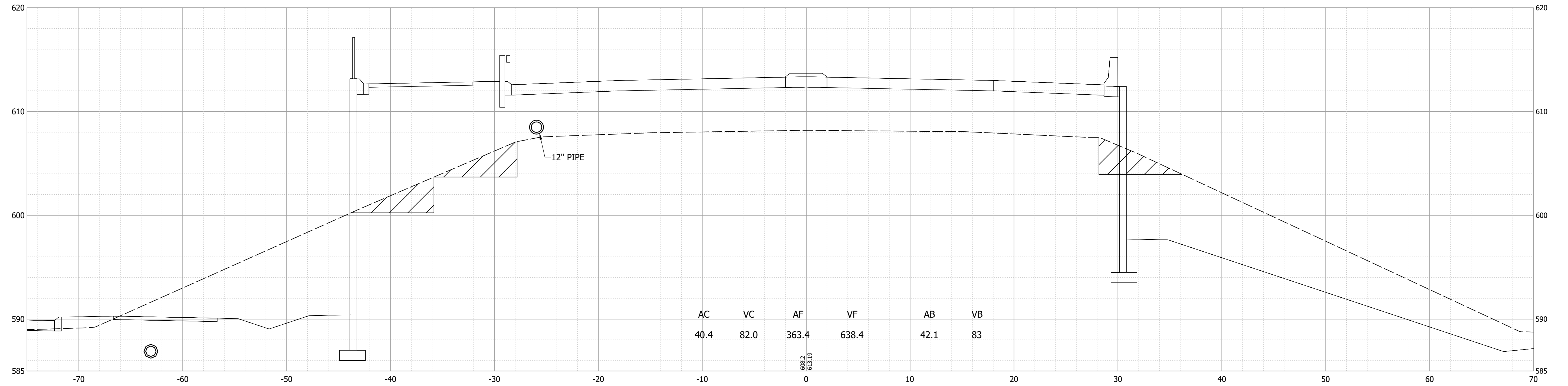
CROSS SECTIONS
 LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	48 of 76
CONTRACT	PROJECT
B-43636	1900009

555+50



555+00



Date: Nov 21, 2023 5:37pm User Name: mackley File: X:\Production\Files\2019\19-0350\CAD\CrossSection\US 20 Cross Sections.dwg

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

RECOMMENDED FOR APPROVAL _____ 11/21/2023
DESIGN ENGINEER DATE

DESIGNED: JAG DRAWN: JAG

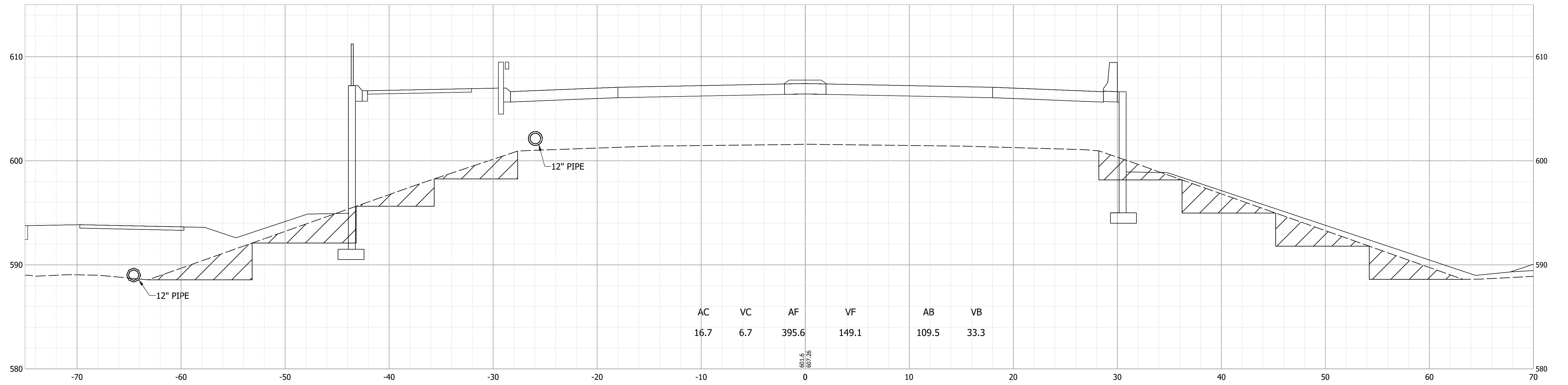
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INDIANA
DEPARTMENT OF TRANSPORTATION

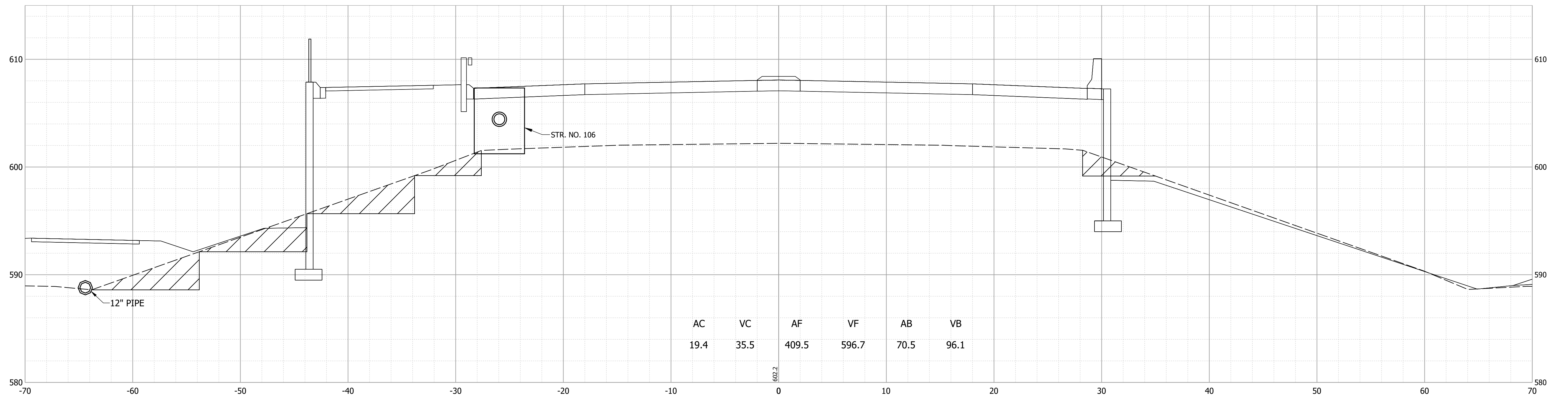
CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 020-45-02821
VERTICAL SCALE 1" = 5'	DESIGNATION 1900009
SURVEY BOOK ELECTRONIC	SHEET 49 of 76
CONTRACT B-43636	PROJECT 1900009

556+00



555+90



Date: Nov 21, 2023 5:38pm User Name: mackley
File: X:\Production\Files\20191219-0350\CAD\CrossSection\US 20 Cross Sections.dwg

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

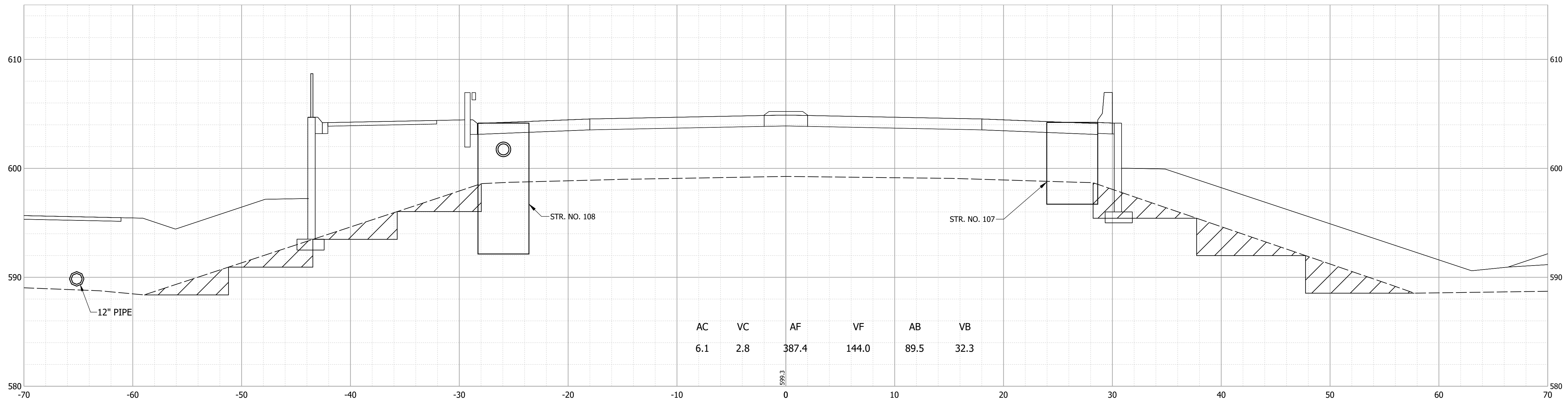
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
		11/21/2023
DESIGNED: JAG	DRAWN: JAG	
CHECKED: BSS	CHECKED: BJS	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A"

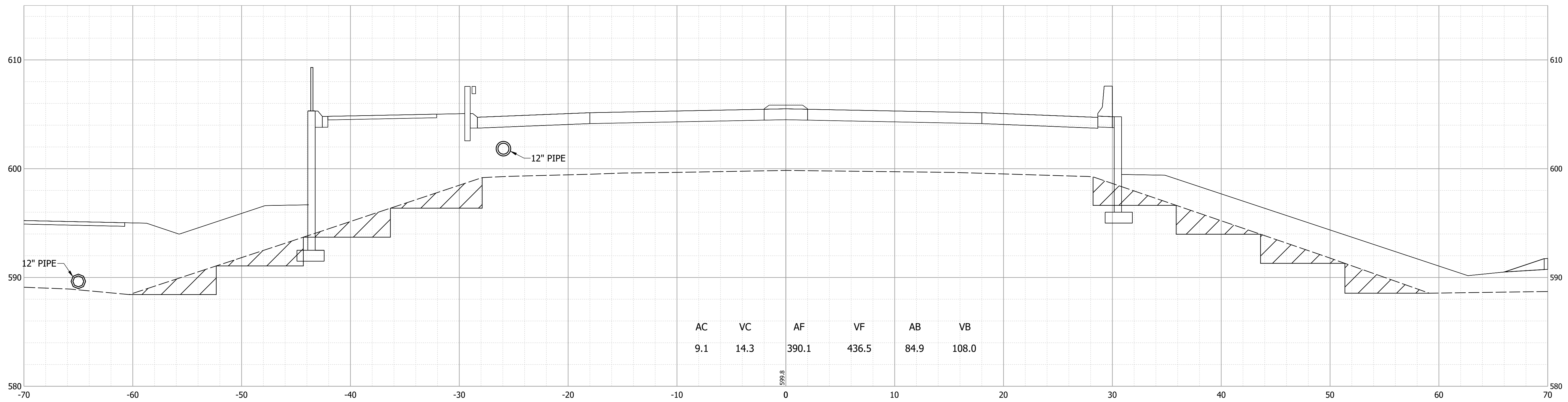
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	50 of 76
CONTRACT	PROJECT
B-43636	1900009

556+40



AC	VC	AF	VF	AB	VB
6.1	2.8	387.4	144.0	89.5	32.3

556+30



AC	VC	AF	VF	AB	VB
9.1	14.3	390.1	436.5	84.9	108.0

Date: Nov 21, 2023 5:38pm User Name: mackley File: X:\Production\Files\20191219-0350\CAD\CrossSection\US 20 Cross Sections.dwg

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

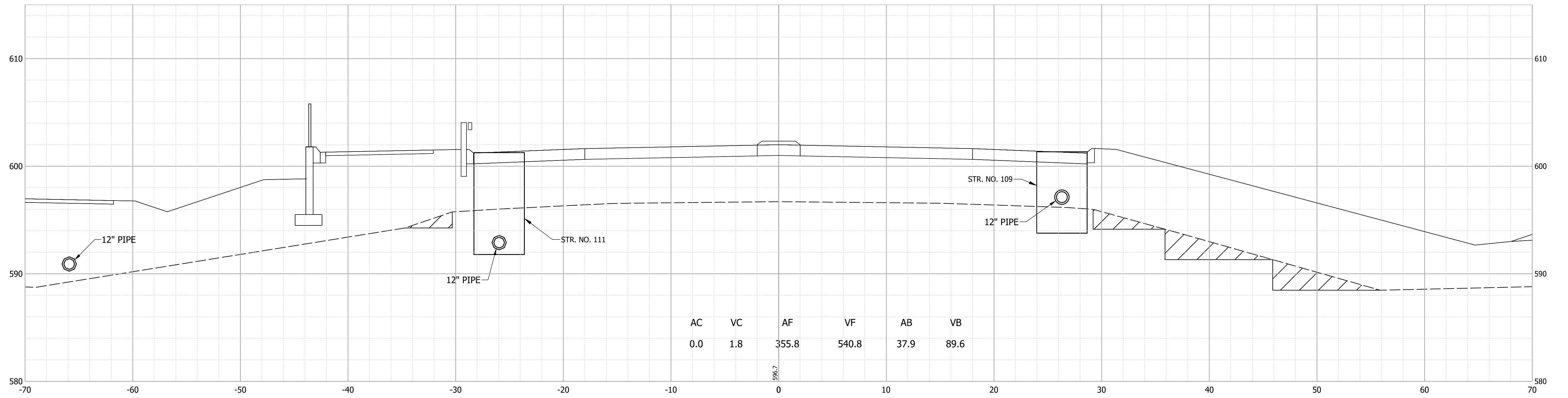
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
	JAG	11/21/2023
DESIGNED:	DRAWN:	
JAG	JAG	
CHECKED:	CHECKED:	
BSS	BJS	

INDIANA
DEPARTMENT OF TRANSPORTATION

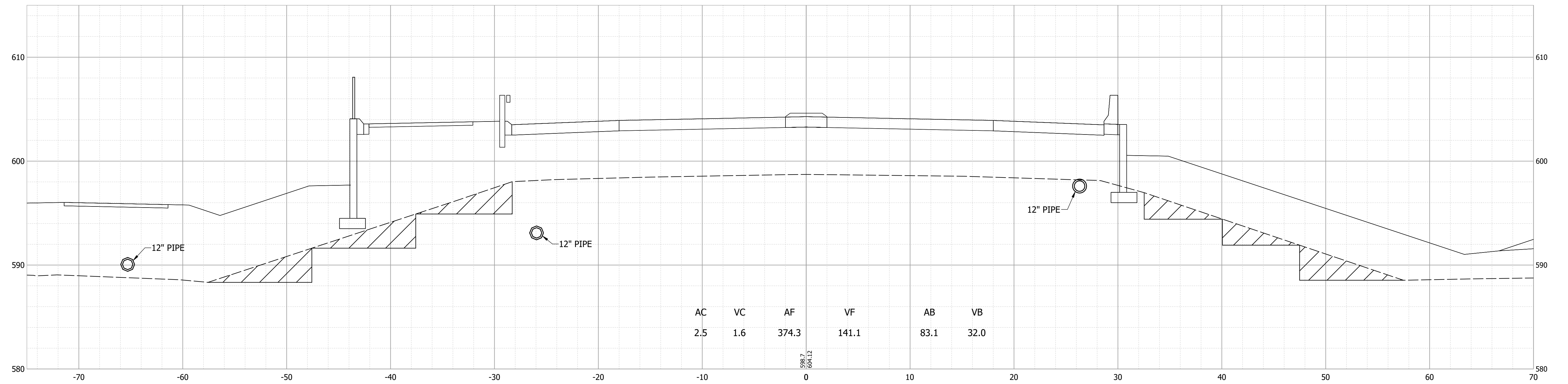
CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	51 of 76
CONTRACT	PROJECT
B-43636	1900009

556+90



556+50



Date: Nov 21, 2023 5:38pm User Name: mackley
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PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

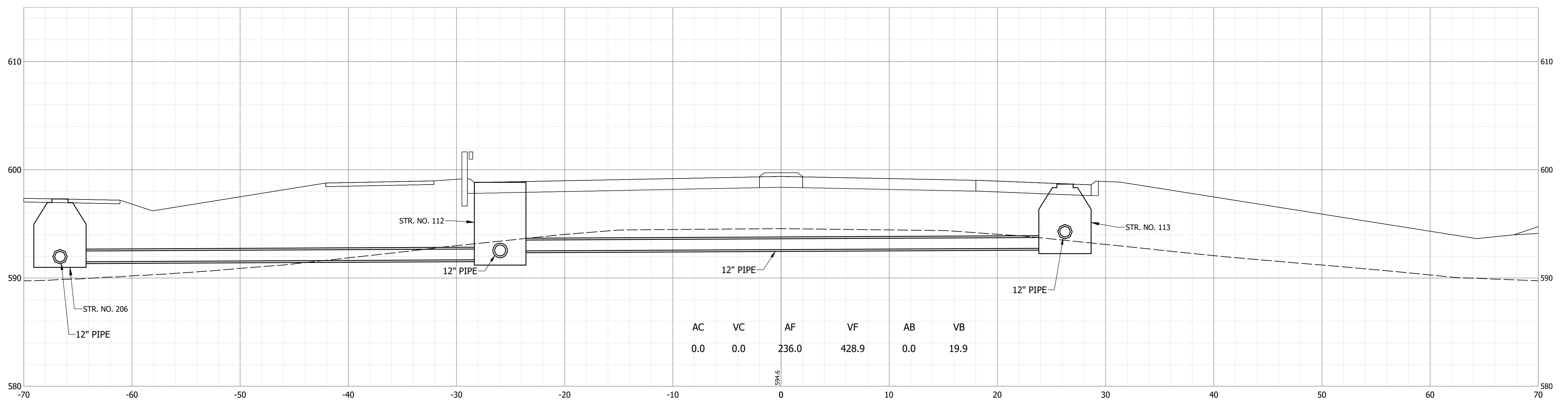
RECOMMENDED FOR APPROVAL _____ 11/21/2023
DESIGN ENGINEER DATE
DESIGNED: JAG DRAWN: JAG
CHECKED: BSS CHECKED: BJS

INDIANA
DEPARTMENT OF TRANSPORTATION

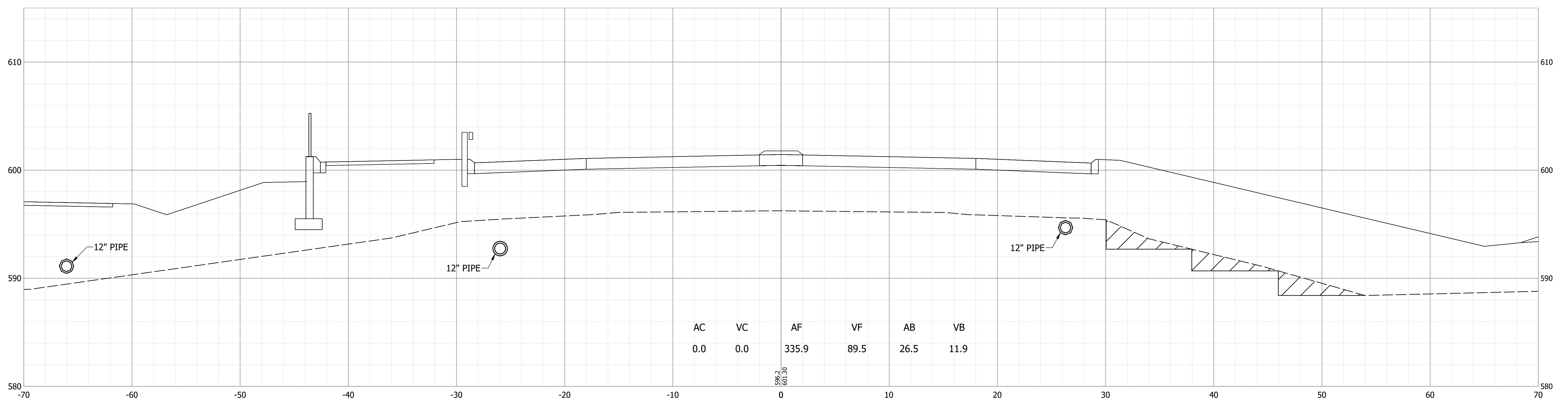
CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 020-45-02821
VERTICAL SCALE 1" = 5'	DESIGNATION 1900009
SURVEY BOOK ELECTRONIC	SHEET 52 of 76
CONTRACT B-43636	PROJECT 1900009

557+40.50



557+00



Date: Nov 21, 2023 5:38pm User Name: mackley File: X:\Production\Files\20191219-0350\CAD\CrossSection\US 20 Cross Sections.dwg

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

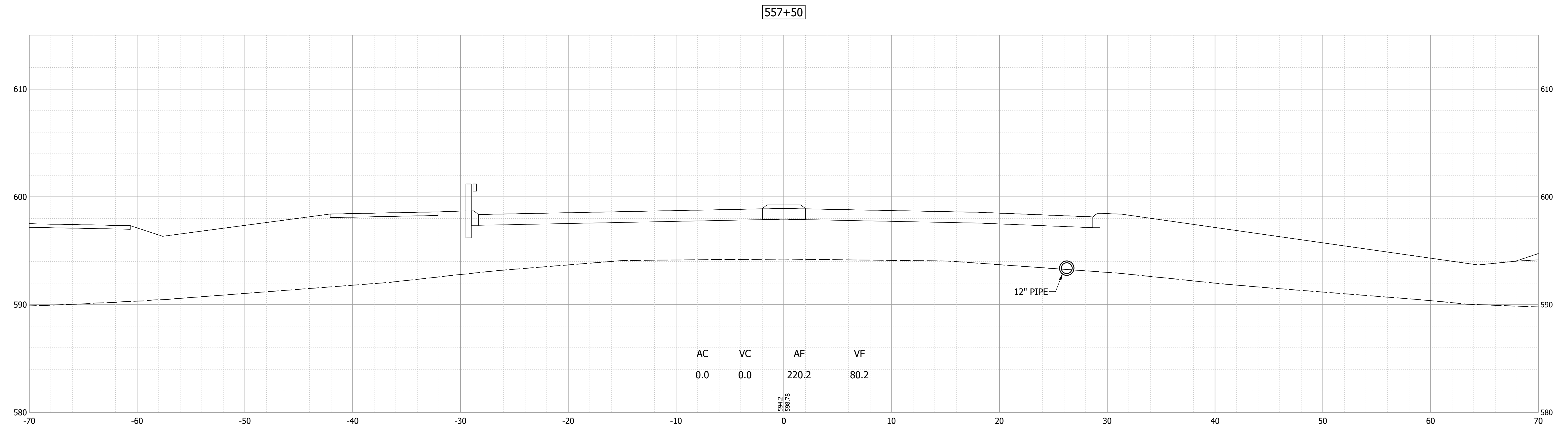
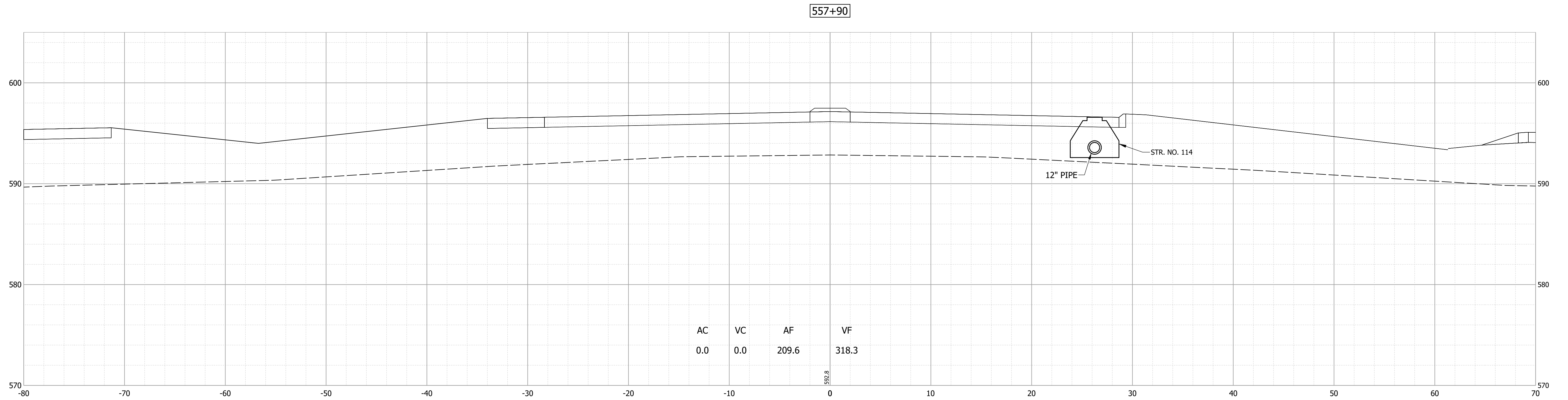
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
	JAG	11/21/2023
DESIGNED: JAG	DRAWN: JAG	
CHECKED: BSS	CHECKED: BJS	

INDIANA
DEPARTMENT OF TRANSPORTATION

**CROSS SECTIONS
LINE "A"**

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	53 of 76
CONTRACT	PROJECT
B-43636	1900009

Date: Nov 21, 2023 5:38pm User Name: mackley
 File: X:\Production\Files\2019\19-0350\CAD\CrossSection\US 20 Cross Sections.dwg



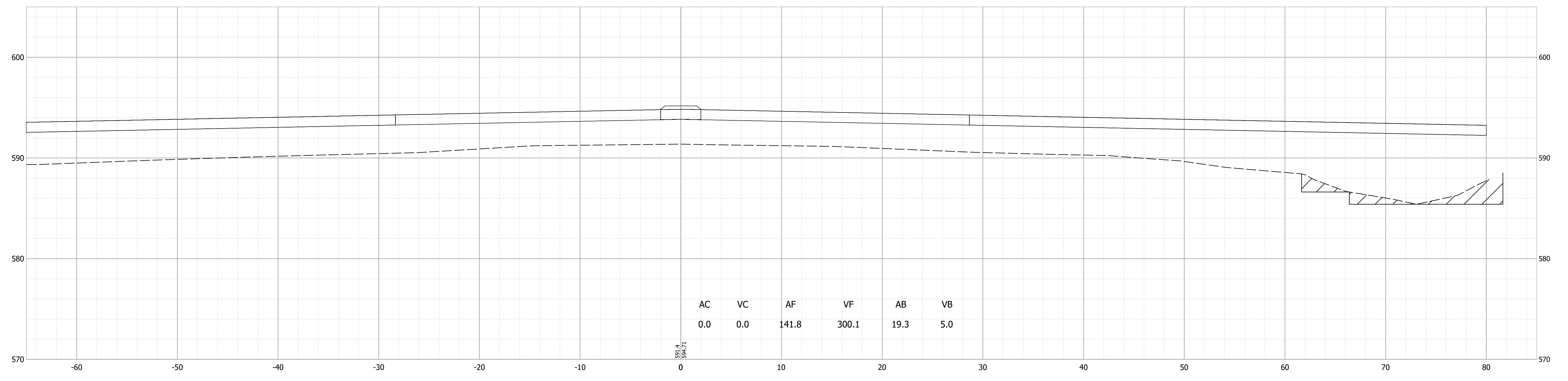
PRELIMINARY
 NOT FOR CONSTRUCTION
 DATE: 11/21/2023

RECOMMENDED FOR APPROVAL _____ 11/21/2023
 DESIGN ENGINEER DATE
 DESIGNED: JAG DRAWN: JAG
 CHECKED: BSS CHECKED: BJS

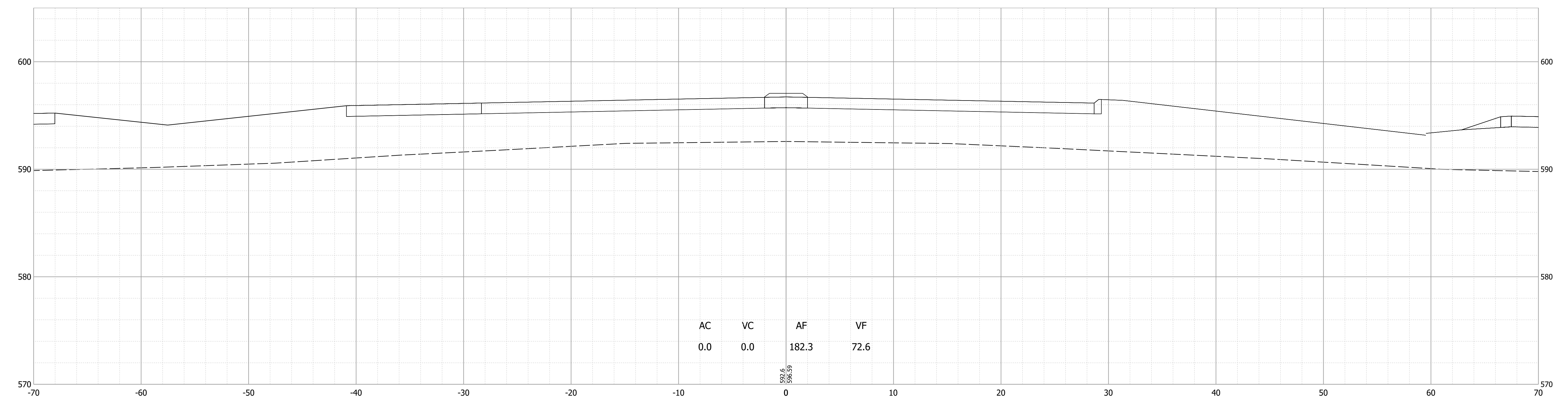
INDIANA
 DEPARTMENT OF TRANSPORTATION
 CROSS SECTIONS
 LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	54 of 76
CONTRACT	PROJECT
B-43636	1900009

558+50



558+00



Date: Nov 21, 2023 5:38pm User Name: mackley
File: X:\Production\Files\20191219-0350\CAD\CrossSection\US 20 Cross Sections.dwg

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

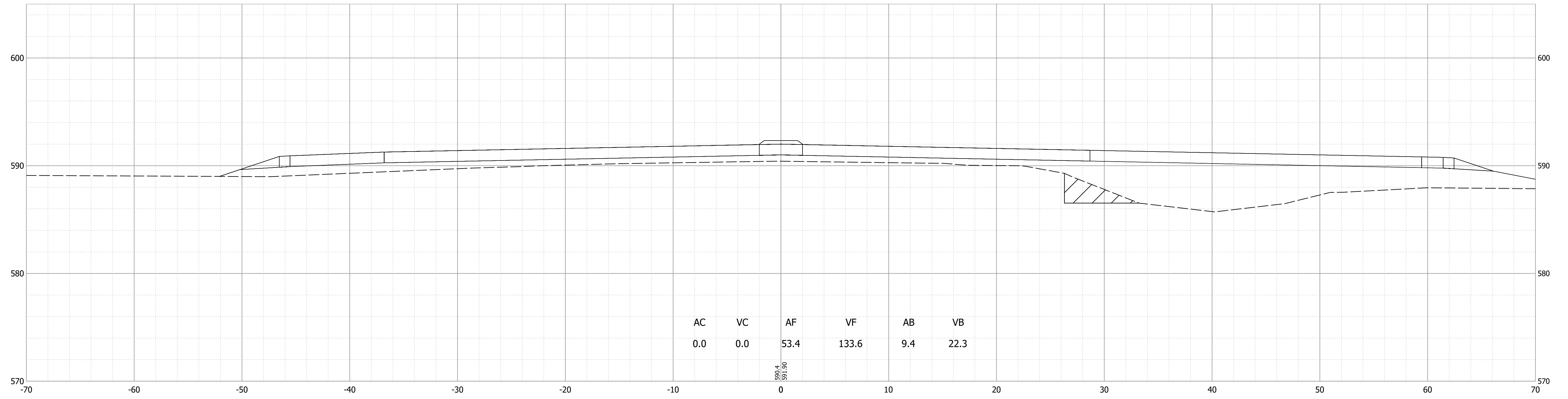
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		11/21/2023
DESIGNED: JAG	DRAWN: JAG	
CHECKED: BSS	CHECKED: BJS	

INDIANA
DEPARTMENT OF TRANSPORTATION

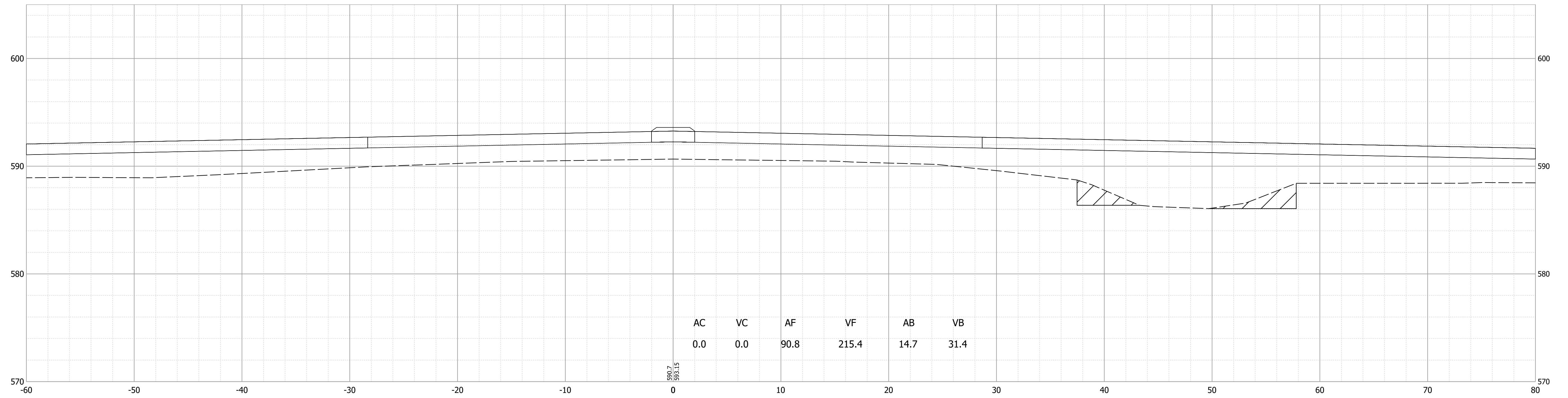
CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	55 of 76
CONTRACT	PROJECT
B-43636	1900009

559+50



559+00



Date: Nov 21, 2023 5:38pm User Name: mackley
File: X:\Production\Files\2019\19-0350\CAD\CrossSection\US 20 Cross Sections.dwg

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

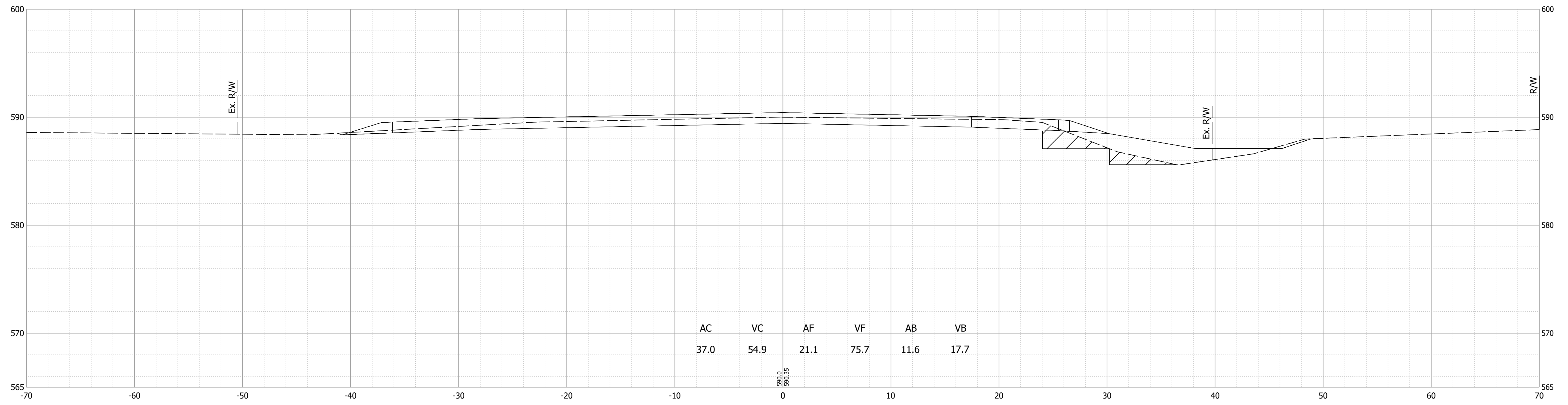
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		11/21/2023
DESIGNED: JAG	DRAWN: JAG	
CHECKED: BSS	CHECKED: BJS	

INDIANA
DEPARTMENT OF TRANSPORTATION

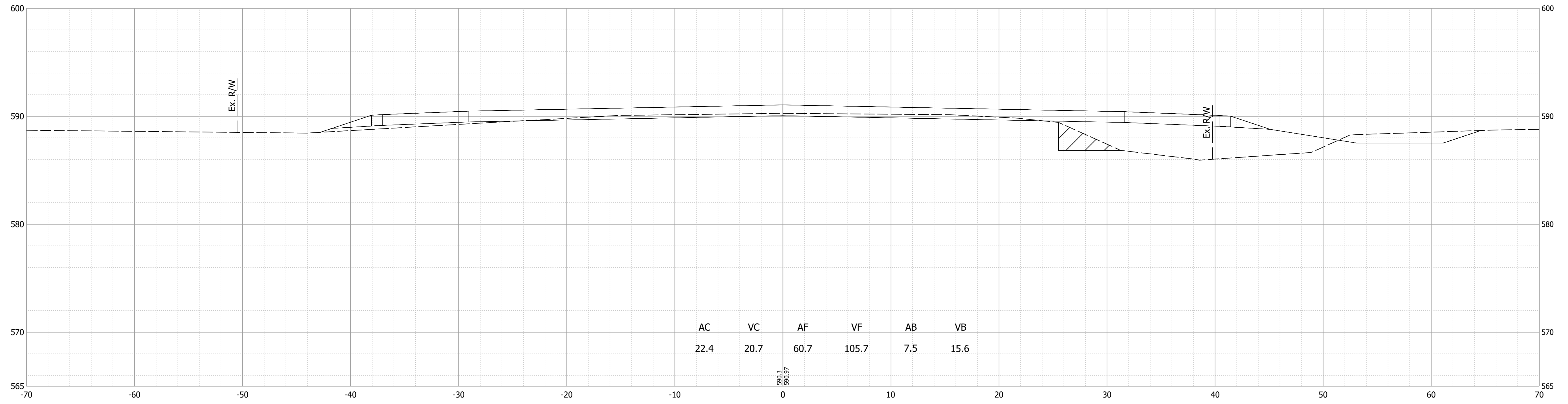
CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	56 of 76
CONTRACT	PROJECT
B-43636	1900009

560+50



560+00



Date: Nov 21, 2023 5:38pm User Name: mackley File: X:\Production\Files\20191219-0350\CAD\Crosssect\US 20 Cross Sections.dwg

PRELIMINARY NOT FOR CONSTRUCTION DATE: 11/21/2023

RECOMMENDED FOR APPROVAL _____ 11/21/2023
DESIGN ENGINEER DATE

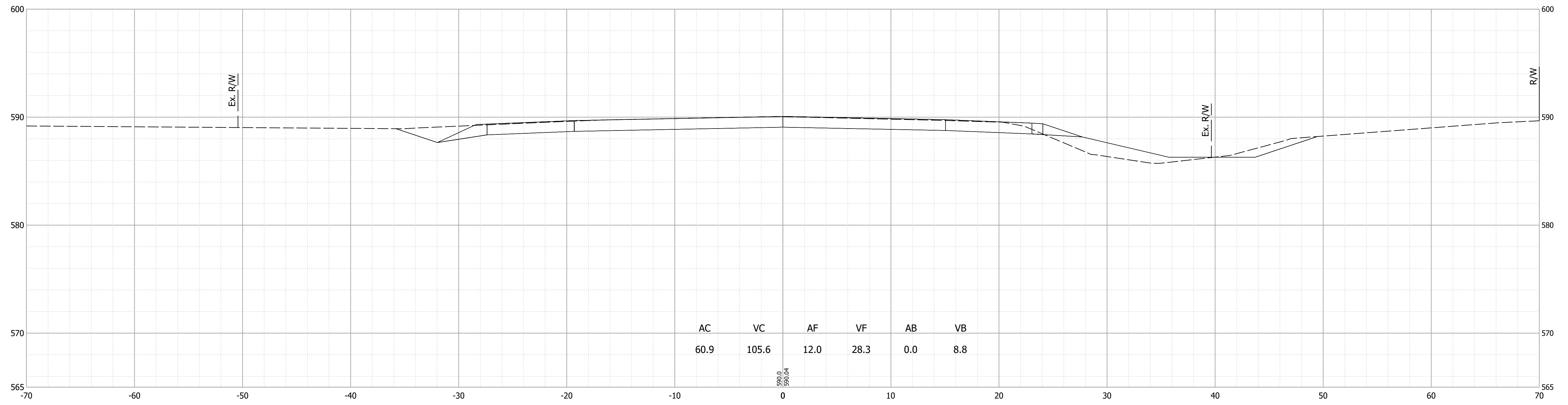
DESIGNED: JAG DRAWN: JAG
CHECKED: BSS CHECKED: BJS

INDIANA DEPARTMENT OF TRANSPORTATION

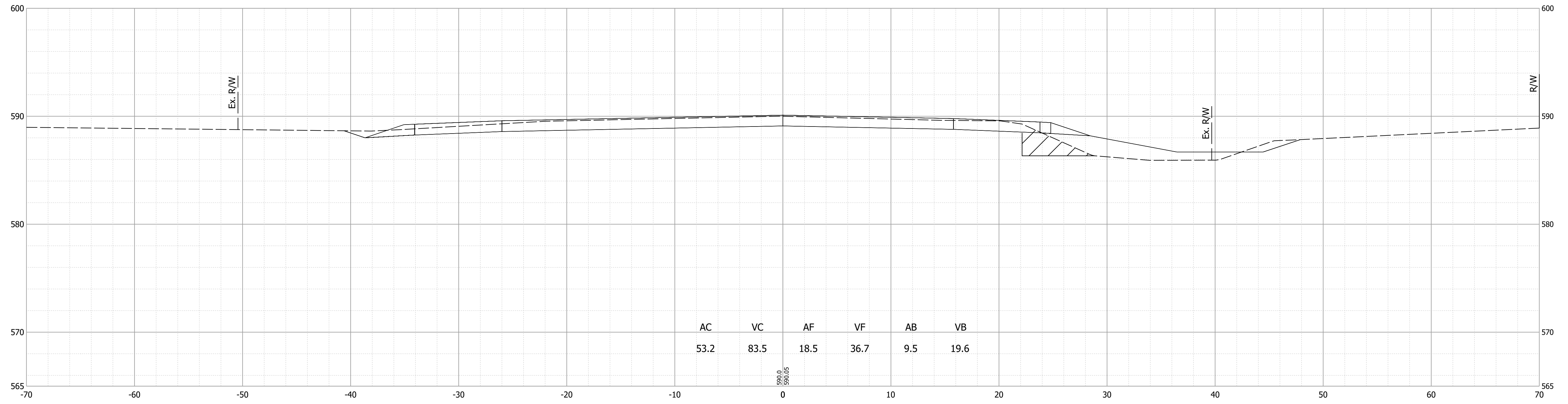
CROSS SECTIONS LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	57 of 76
CONTRACT	PROJECT
B-43636	1900009

561+50



561+00



Date: Nov 21, 2023 5:38pm User Name: mackley File: X:\Production\Files\20191219-0350\CAD\CrossSection\US 20 Cross Sections.dwg

PRELIMINARY NOT FOR CONSTRUCTION DATE: 11/21/2023

RECOMMENDED FOR APPROVAL _____ 11/21/2023
 DESIGN ENGINEER DATE

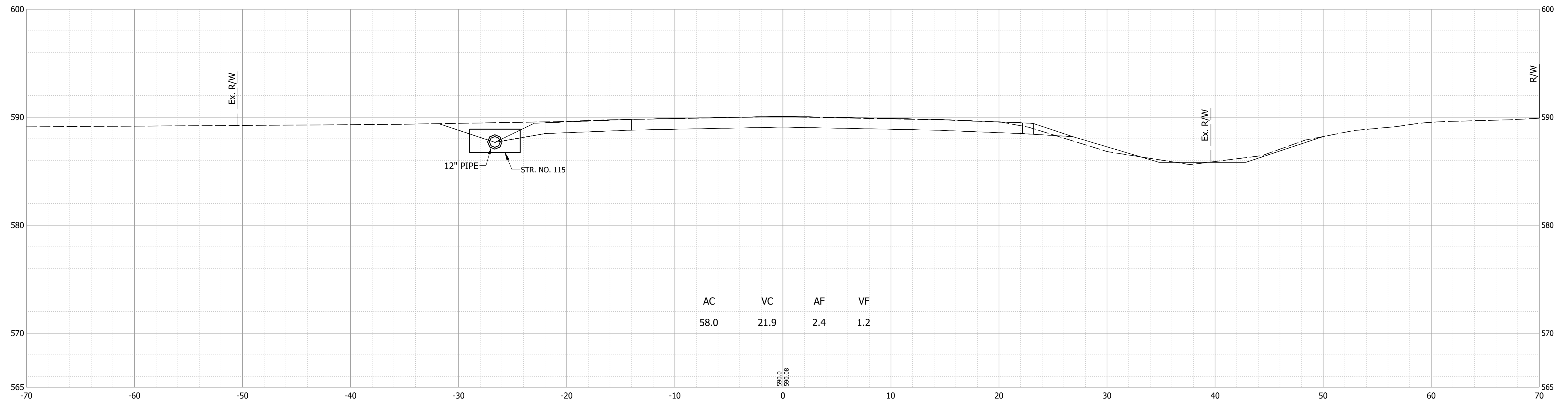
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INDIANA DEPARTMENT OF TRANSPORTATION

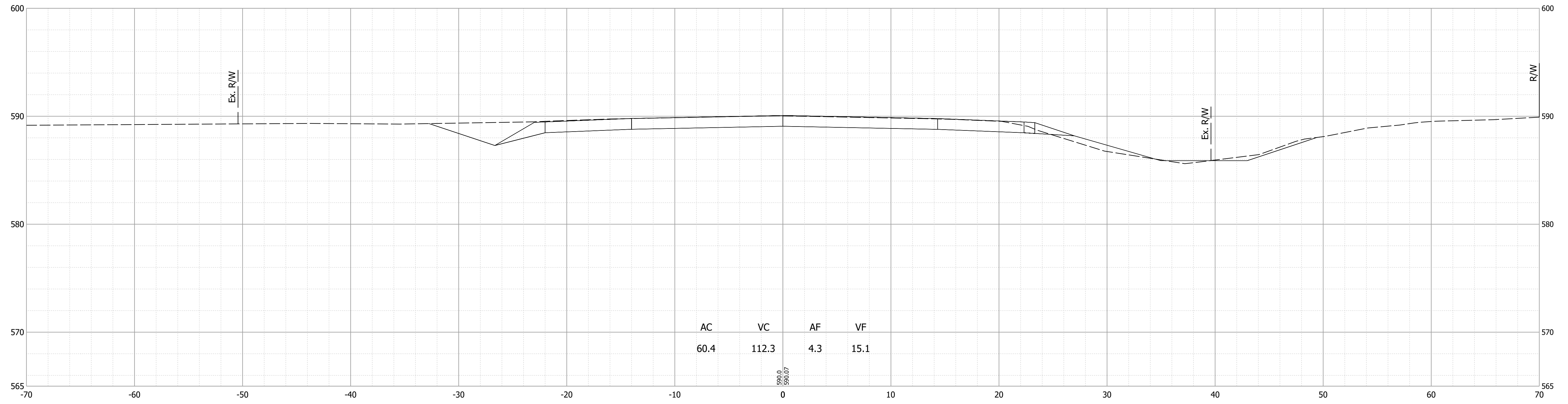
CROSS SECTIONS LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	58 of 76
CONTRACT	PROJECT
B-43636	1900009

562+10



562+00



Date: Nov 21, 2023 5:38pm User Name: mackley File: X:\Production\Files\20191219-0350\CAD\CrossSection\US 20 Cross Sections.dwg

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
		11/21/2023
DESIGNED: JAG	DRAWN: JAG	
CHECKED: BSS	CHECKED: BJS	

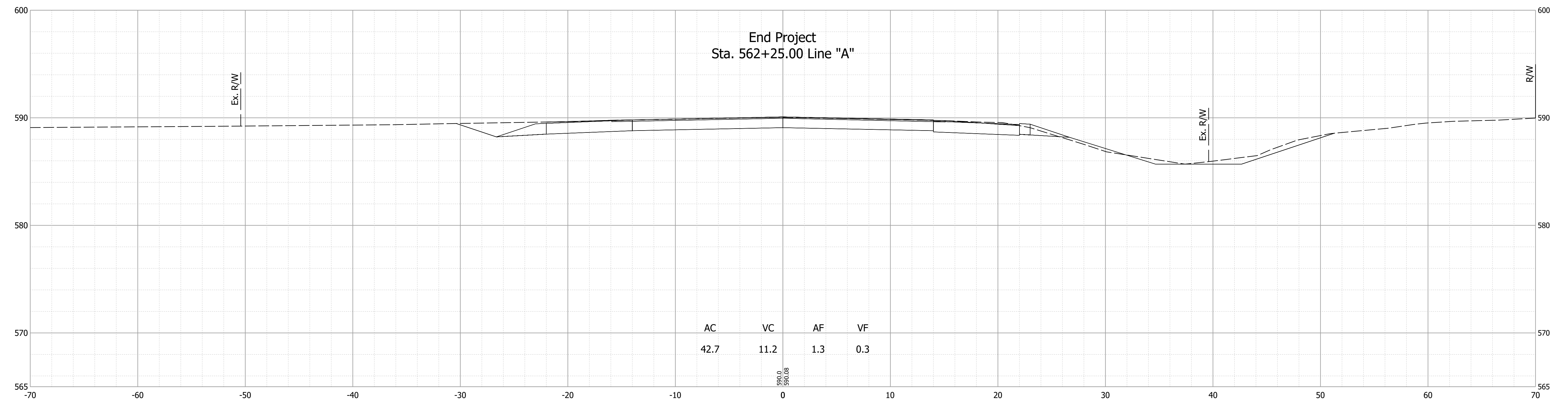
INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS LINE "A"

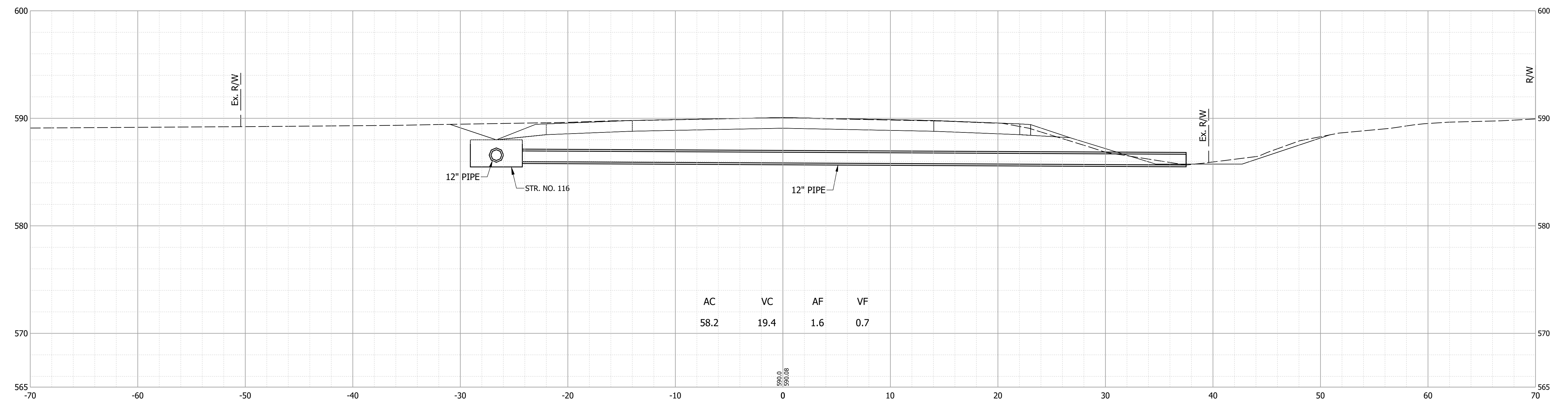
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1" = 5'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	59 of 76
CONTRACT	PROJECT
B-43636	1900009

562+25

End Project
Sta. 562+25.00 Line "A"



562+19



Date: Nov 21, 2023 5:38pm User Name: mackley
File: X:\Production\Files\2019\19-0350\CAD\CrossSection\US 20 Cross Sections.dwg

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

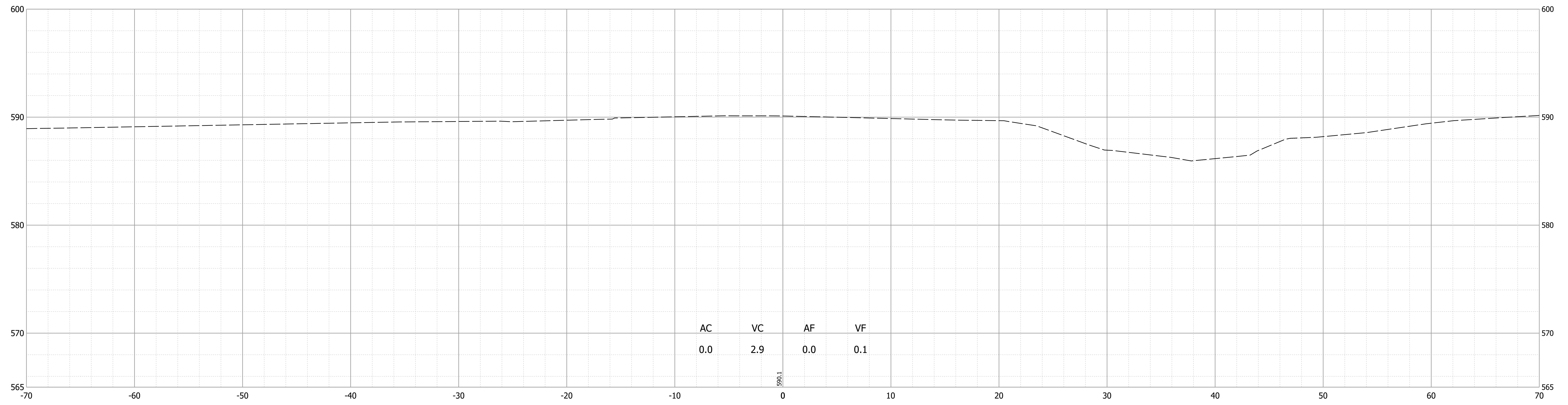
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
		11/21/2023
DESIGNED: JAG	DRAWN: JAG	
CHECKED: BSS	CHECKED: BJS	

INDIANA
DEPARTMENT OF TRANSPORTATION

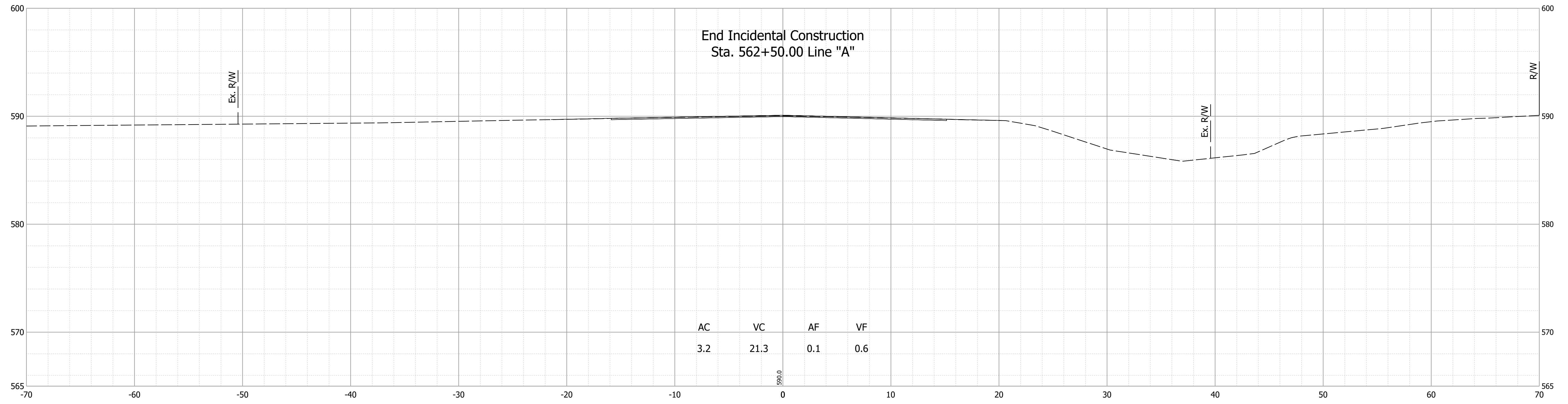
CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	60 of 76
CONTRACT	PROJECT
B-43636	1900009

563+00



562+50



Date: Nov 21, 2023 5:38pm User Name: mackley File: X:\Production\Files\2019\19-0350\CAD\CrossSection\US 20 Cross Sections.dwg

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

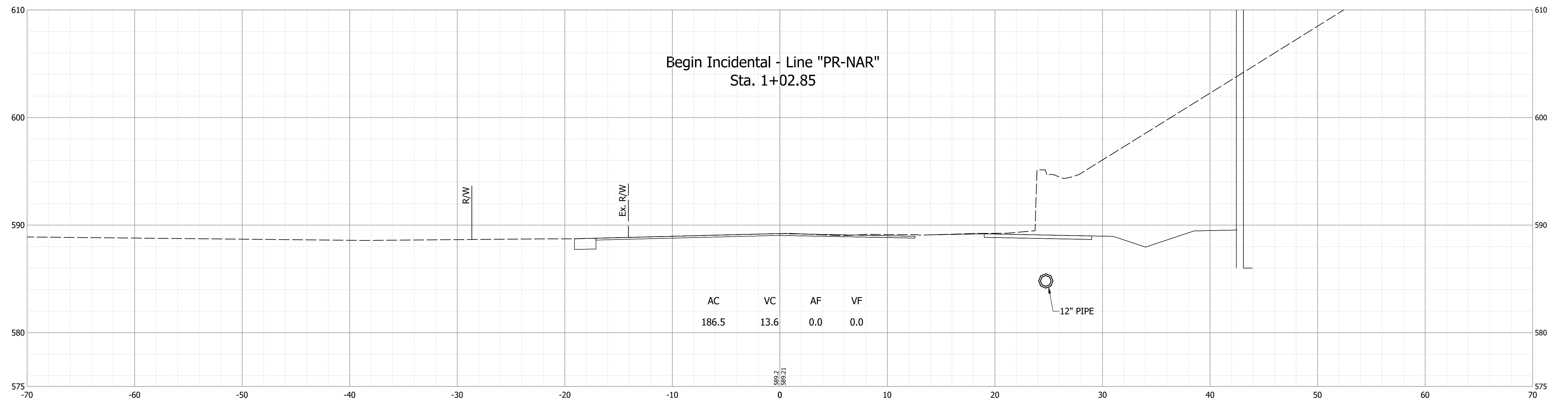
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
	JAG	11/21/2023
DESIGNED: JAG	DRAWN: JAG	
CHECKED: BSS	CHECKED: BJS	

INDIANA
DEPARTMENT OF TRANSPORTATION

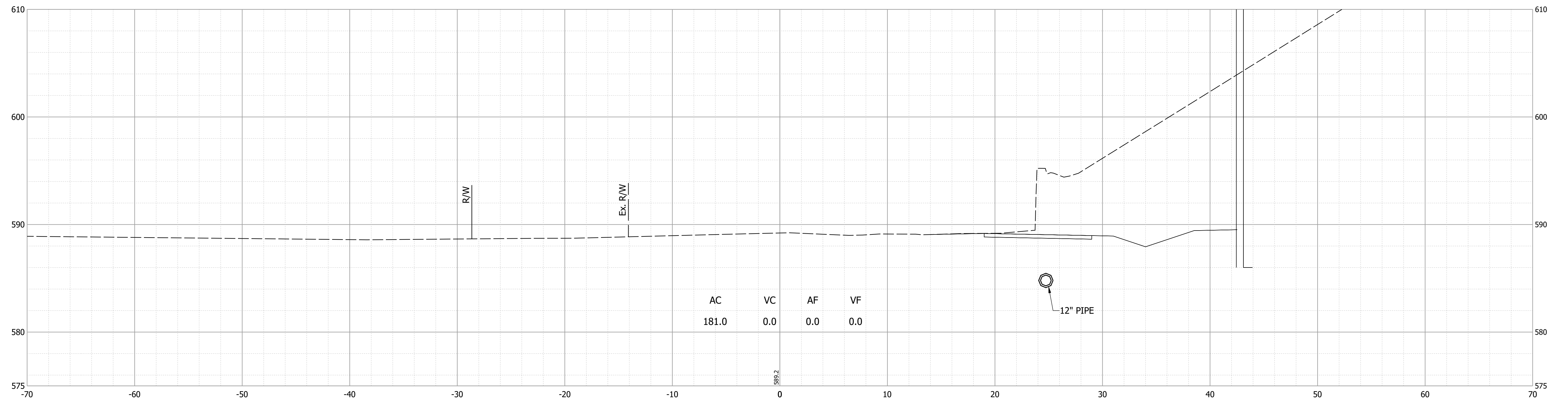
CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'	1900009
SURVEY BOOK	SHEET
ELECTRONIC	61 of 76
CONTRACT	PROJECT
B-43636	1900009

1+02



1+00



Date: Nov 21, 2023 5:39pm User Name: mackley File: X:\Production\Files\2019\19-0350\CAD\CrossSection\19R Cross Sections.dwg

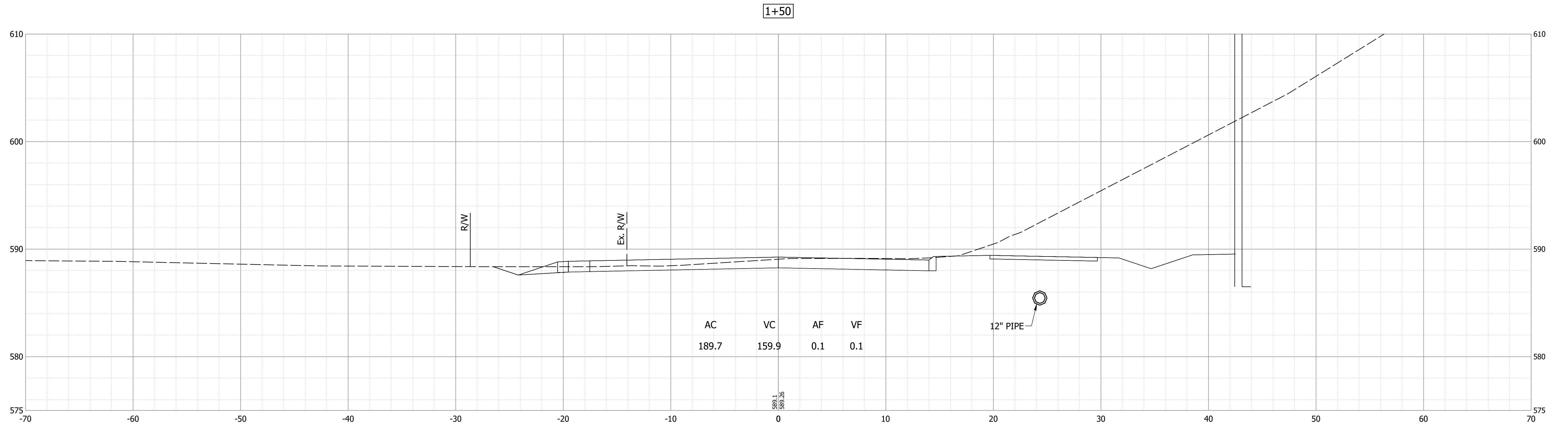
PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
		11/21/2023
DESIGNED: MJO	DRAWN: MJO	
CHECKED: BSS	CHECKED: BJS	

INDIANA
DEPARTMENT OF TRANSPORTATION

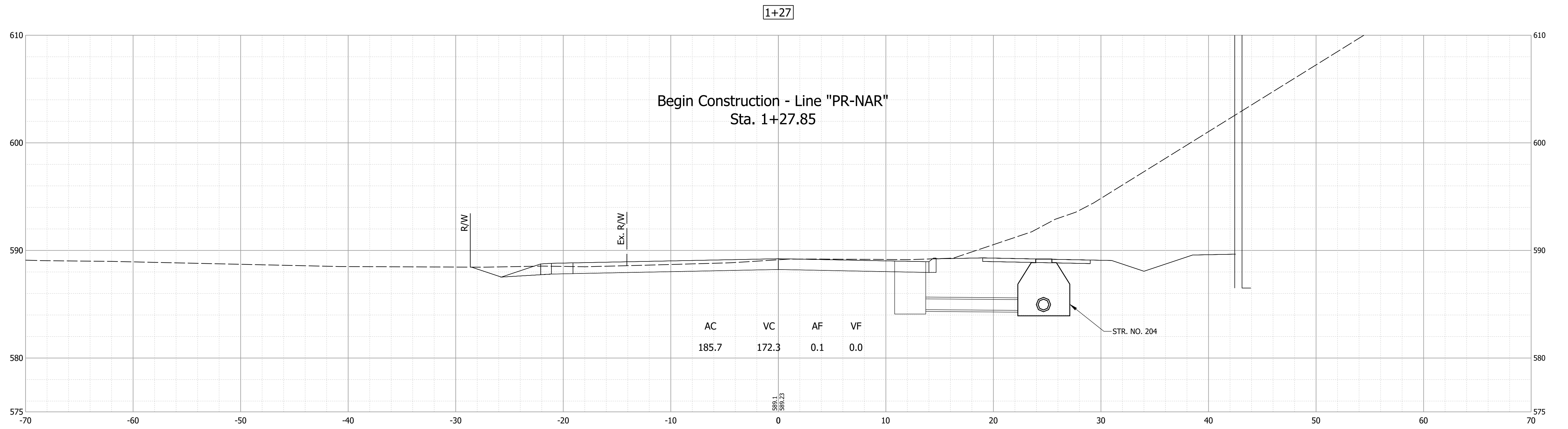
CROSS SECTIONS
LINE "PR-NAR"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	1900009
SURVEY BOOK	SHEET
ELECTRONIC	62 of 76
CONTRACT	PROJECT
B-43636	1900009



AC	VC	AF	VF
189.7	159.9	0.1	0.1

1+50



AC	VC	AF	VF
185.7	172.3	0.1	0.0

1+27

Begin Construction - Line "PR-NAR"
Sta. 1+27.85

Date: Nov 21, 2023 5:39pm User Name: mackley
File: X:\Production\Files\2019\19-0350\CAD\CrossSection\19R Cross Sections.dwg

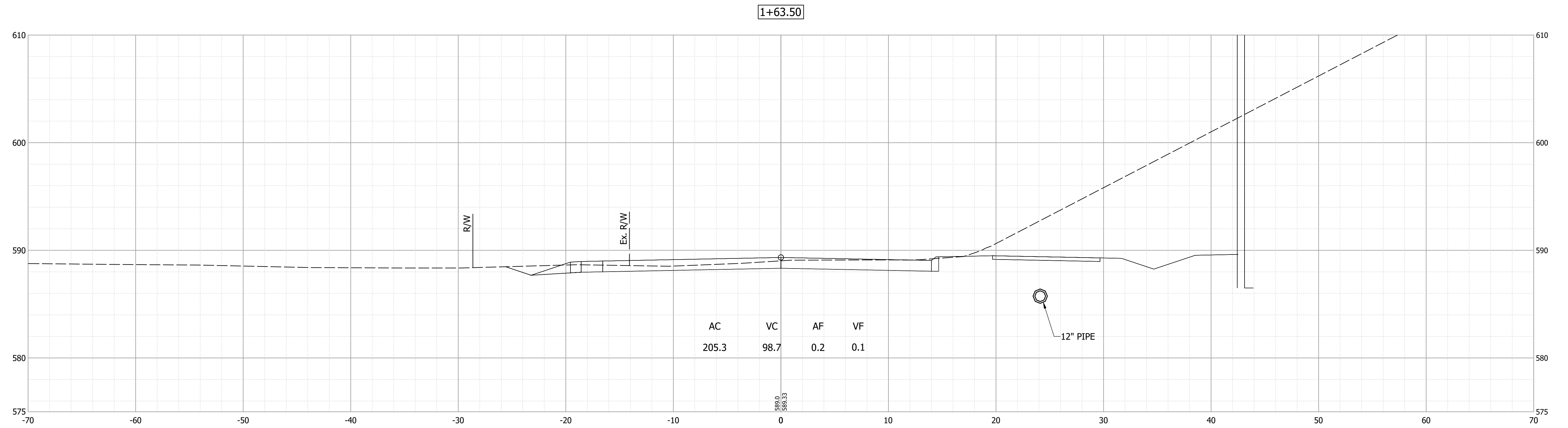
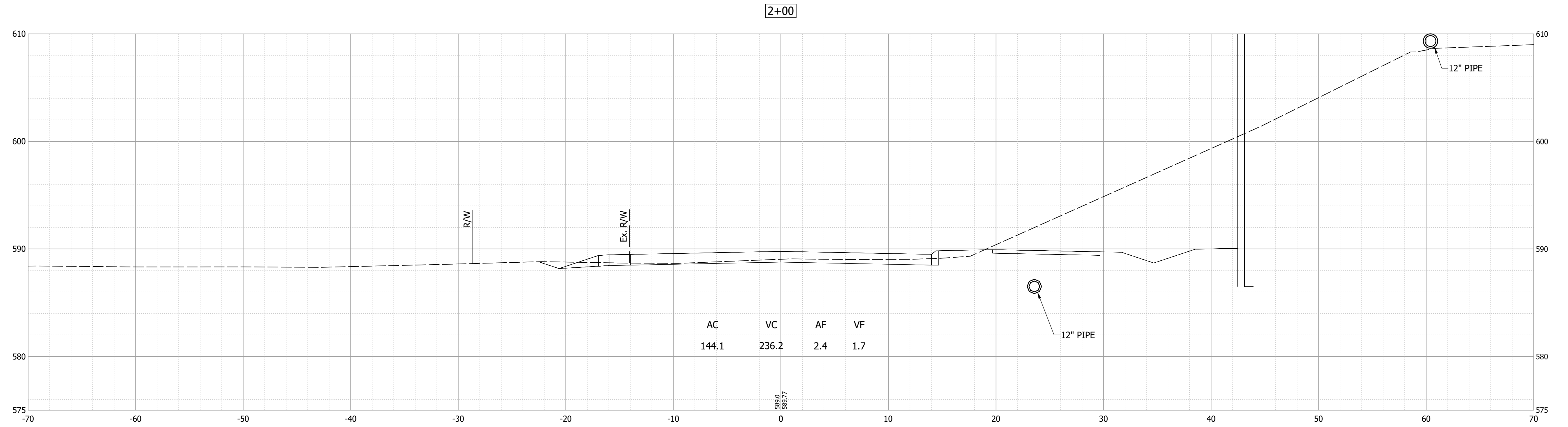
PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
	MJO	11/21/2023
DESIGNED: MJO	DRAWN: MJO	
CHECKED: BSS	CHECKED: BJS	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-NAR"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	1900009
SURVEY BOOK	SHEET
ELECTRONIC	63 of 76
CONTRACT	PROJECT
B-43636	1900009



Date: Nov 21, 2023 5:39pm User Name: mackley
 File: X:\Production\Files\2019\19-0350\CAD\Crosssect\19R Cross Sections.dwg

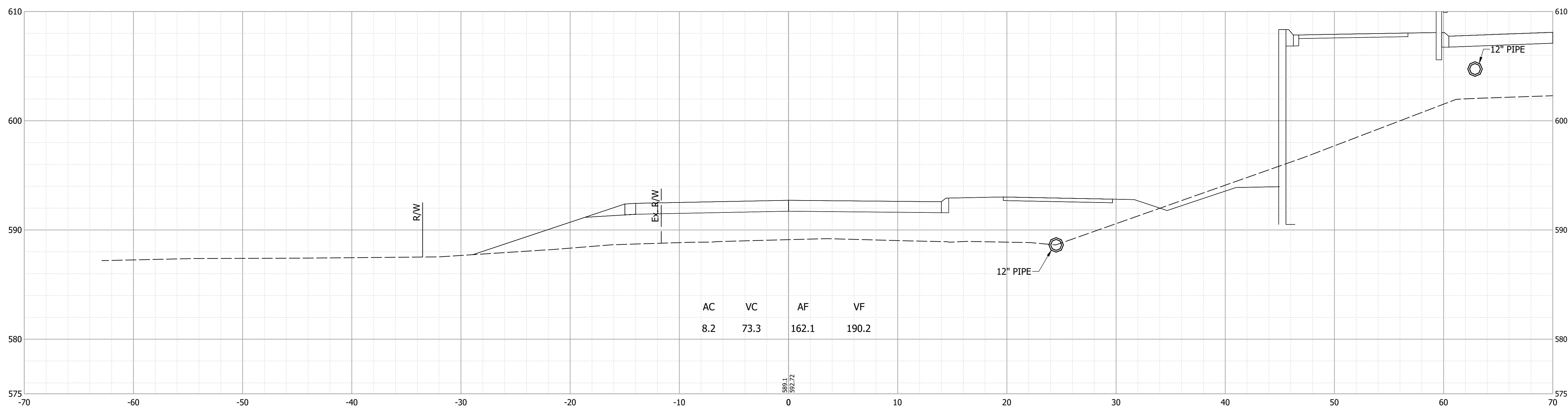
PRELIMINARY
 NOT FOR CONSTRUCTION
 DATE: 11/21/2023

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER	11/21/2023	DATE
DESIGNED: MJO	DRAWN: MJO		
CHECKED: BSS	CHECKED: BJS		

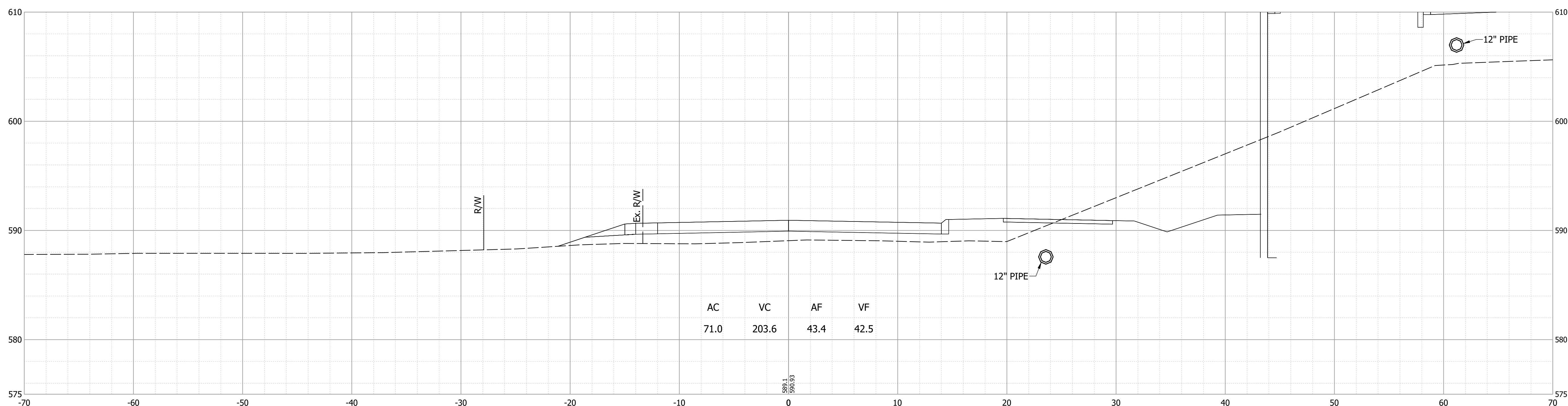
INDIANA
 DEPARTMENT OF TRANSPORTATION
 CROSS SECTIONS
 LINE "PR-NAR"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	1900009
SURVEY BOOK	SHEET
ELECTRONIC	64 of 76
CONTRACT	PROJECT
B-43636	1900009

3+00



2+50



Date: Nov 21, 2023 5:39pm User Name: mackley File: X:\Production\Files\2019\19-0350\CAD\CrossSection\19R Cross Sections.dwg

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

RECOMMENDED FOR APPROVAL _____ DATE: 11/21/2023
DESIGN ENGINEER

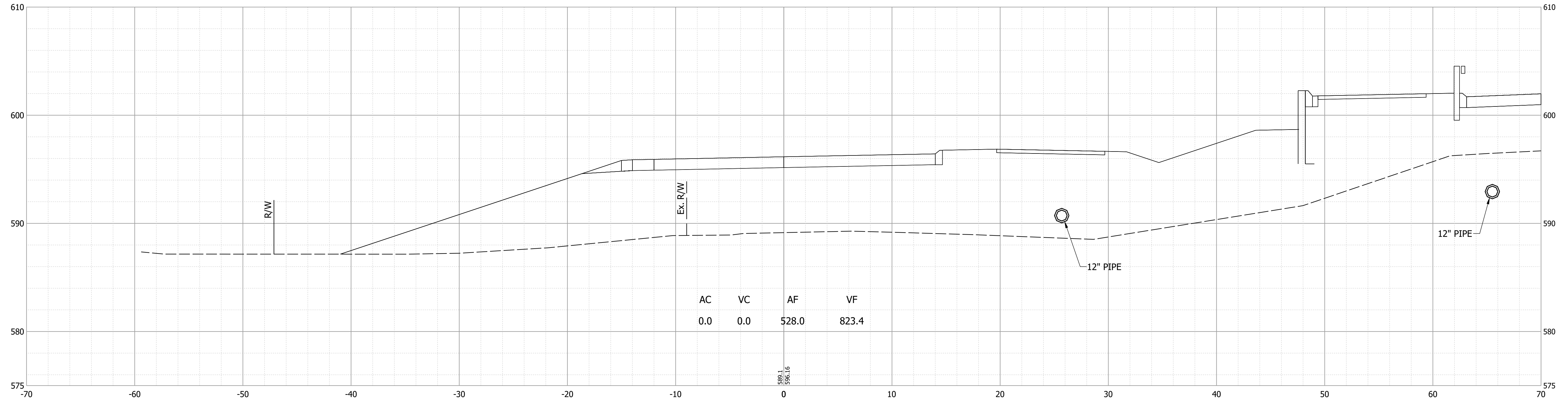
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INDIANA DEPARTMENT OF TRANSPORTATION

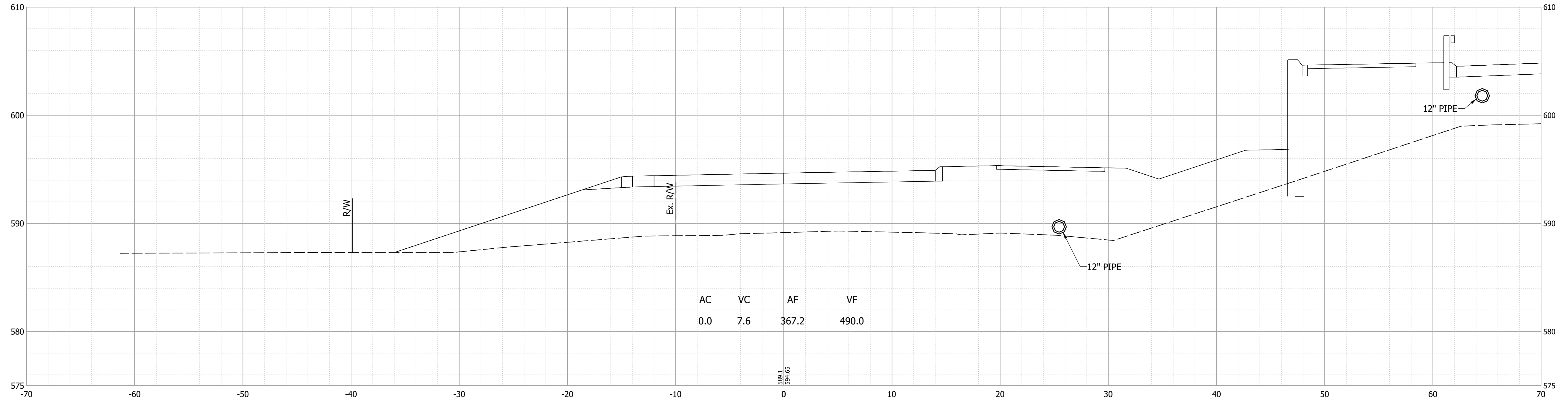
CROSS SECTIONS
LINE "PR-NAR"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	1900009
SURVEY BOOK	SHEET
ELECTRONIC	65 of 76
CONTRACT	PROJECT
B-43636	1900009

4+00



3+50



Date: Nov 21, 2023 5:39pm User Name: mackley File: X:\Production\Files\20191219-0350\CAD\CrossSection\19R Cross Sections.dwg

PRELIMINARY NOT FOR CONSTRUCTION DATE: 11/21/2023

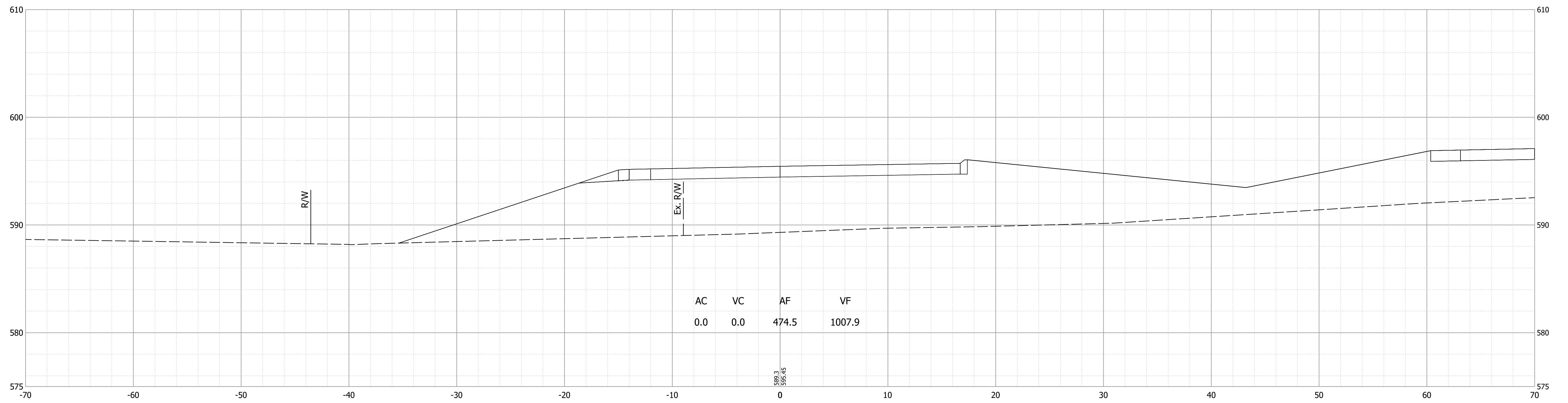
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
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DESIGNED: MJO	DRAWN: MJO	
CHECKED: BSS	CHECKED: BJS	

INDIANA DEPARTMENT OF TRANSPORTATION

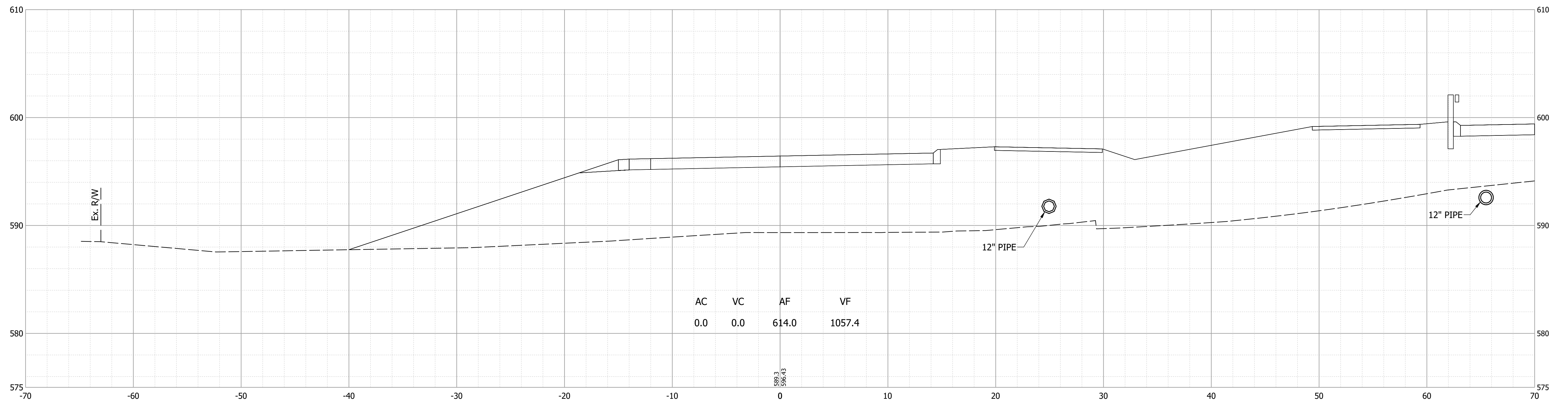
CROSS SECTIONS LINE "PR-NAR"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	1900009
SURVEY BOOK	SHEET
ELECTRONIC	66 of 76
CONTRACT	PROJECT
B-43636	1900009

5+00



4+50



Date: Nov 21, 2023 5:39pm User Name: mackley File: X:\Production\Files\20191219-0350\CAD\CrossSection\IAR Cross Sections.dwg

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

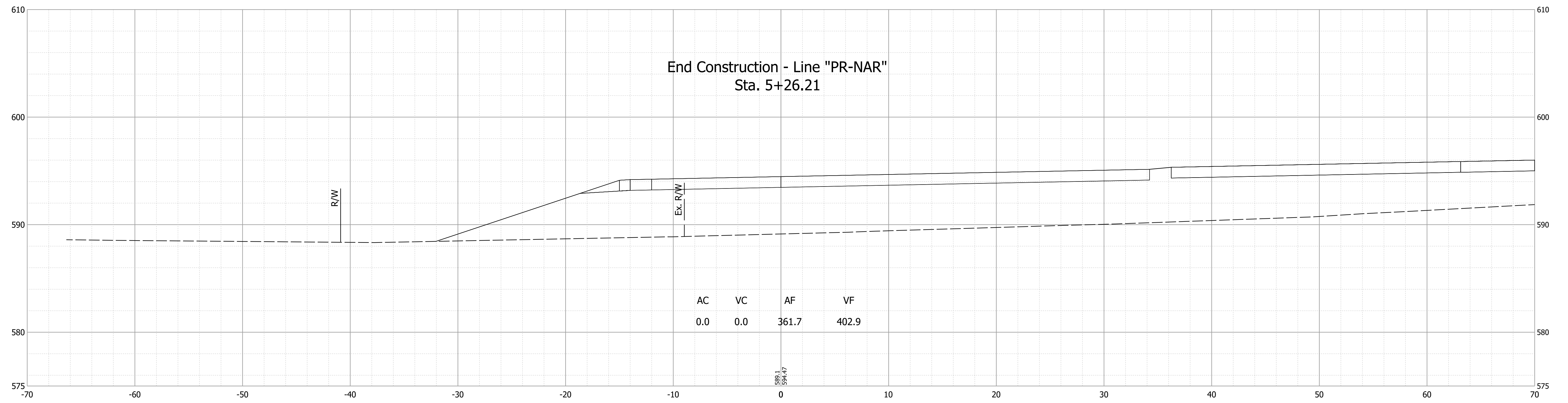
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
		11/21/2023
DESIGNED: MJO	DRAWN: MJO	
CHECKED: BSS	CHECKED: BJS	

INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS LINE "PR-NAR"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	1900009
SURVEY BOOK	SHEET
ELECTRONIC	67 of 76
CONTRACT	PROJECT
B-43636	1900009

5+26.21



End Construction - Line "PR-NAR"
Sta. 5+26.21

R/W

Ex. R/W

589.1
594.47

Date: Nov 21, 2023 5:39pm User Name: mackley
File: X:\Production\Files\2019\19-0350\CAD\Crosssect\IAR Cross Sections.dwg

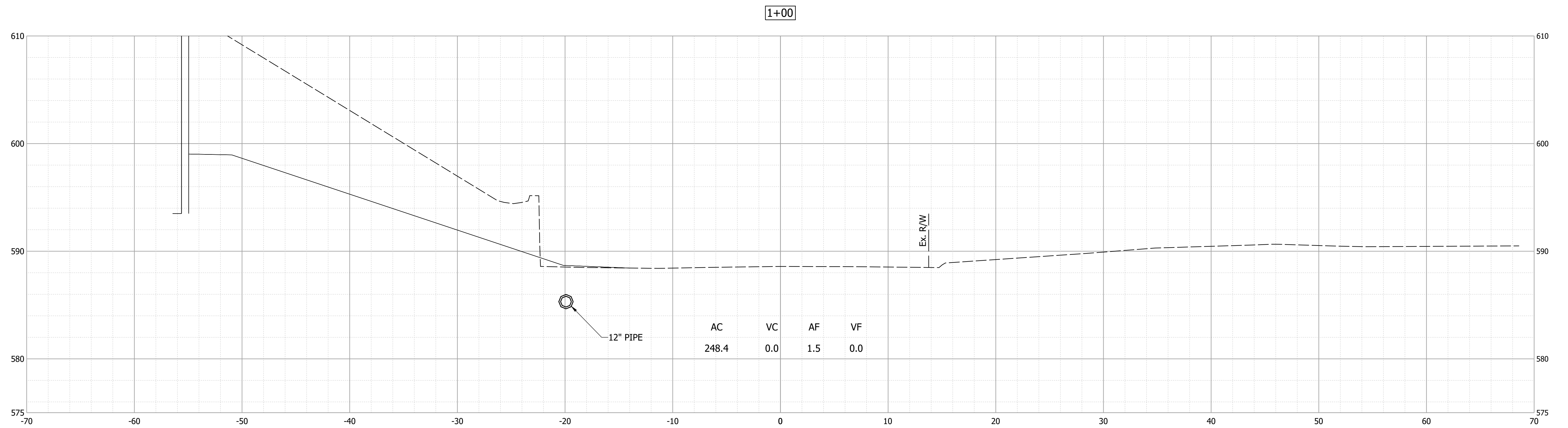
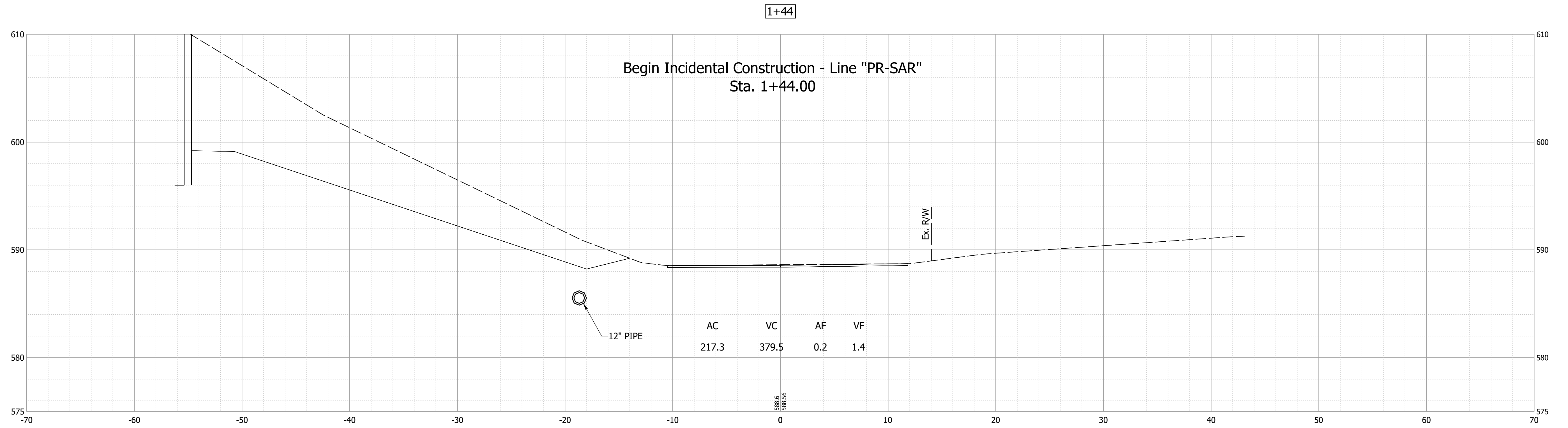
PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
	MJO	11/21/2023
DESIGNED: MJO	DRAWN: MJO	
CHECKED: BSS	CHECKED: BJS	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-NAR"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	1900009
SURVEY BOOK	SHEET
ELECTRONIC	68 of 76
CONTRACT	PROJECT
B-43636	1900009



Date: Nov 21, 2023 5:39pm User Name: mackley
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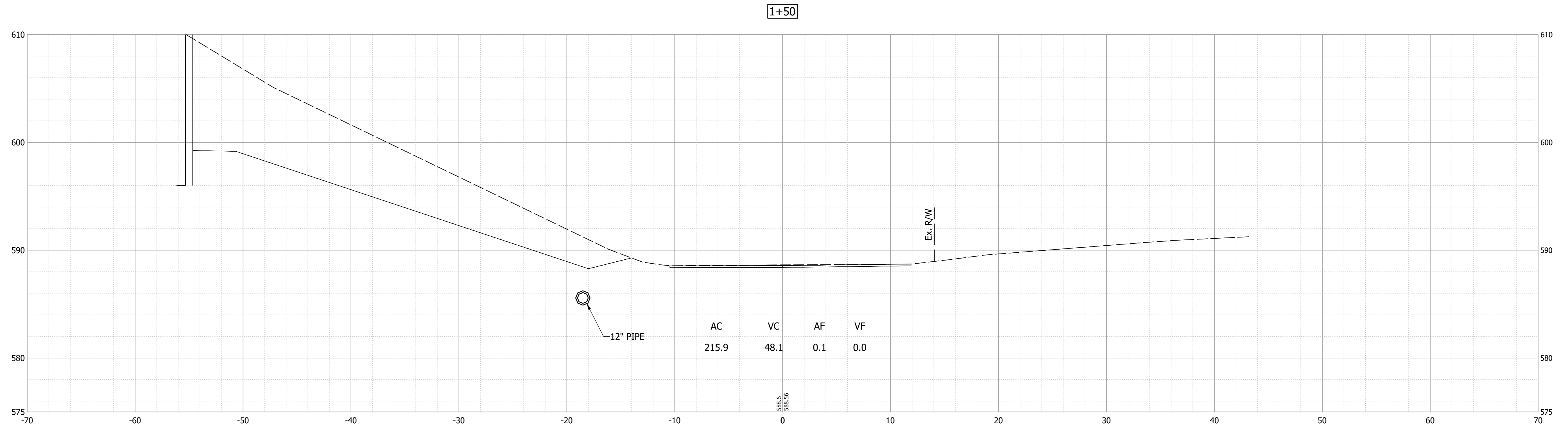
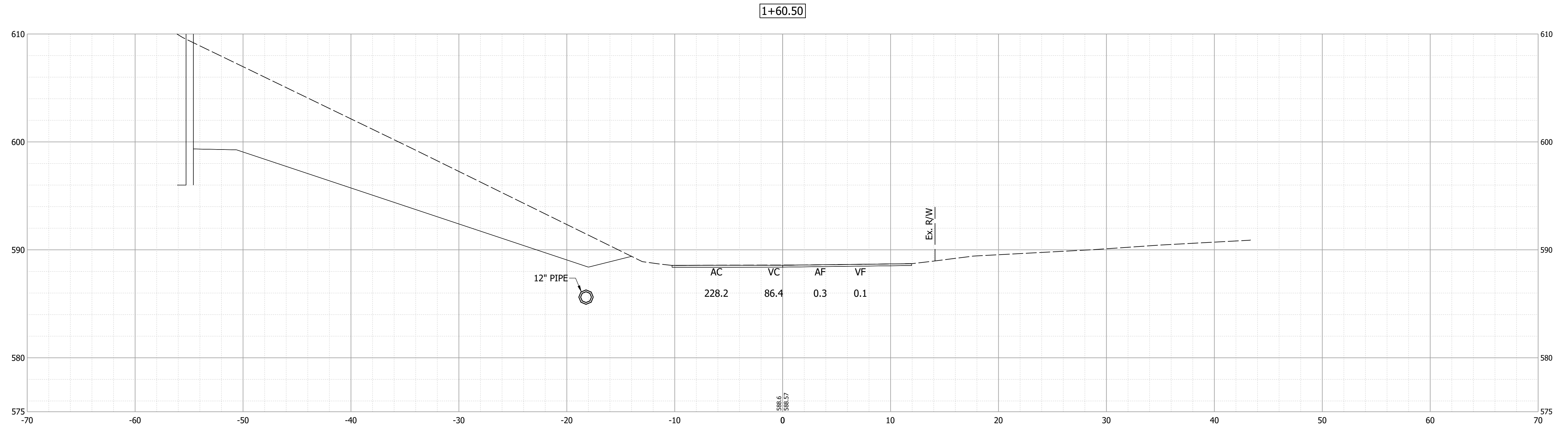
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NOT FOR CONSTRUCTION
DATE: 11/21/2023

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE 11/21/2023
DESIGNED: MJO	DRAWN: MJO	
CHECKED: BSS	CHECKED: BJS	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-SAR"

HORIZONTAL SCALE 1" = 5'-0"	BRIDGE FILE 020-45-02821
VERTICAL SCALE 1" = 5'-0"	DESIGNATION 1900009
SURVEY BOOK ELECTRONIC	SHEET 69 of 76
CONTRACT B-43636	PROJECT 1900009



Date: Nov 21, 2023 5:40pm User Name: mackley
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PRELIMINARY
 NOT FOR CONSTRUCTION
 DATE: 11/21/2023

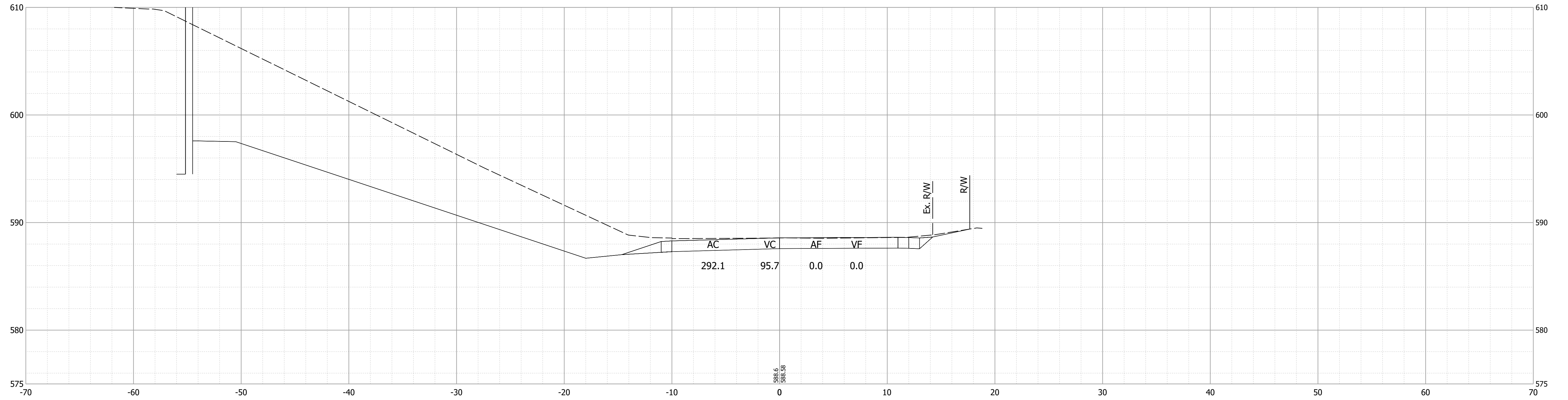
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
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DESIGNED: MJO	DRAWN: MJO	
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INDIANA
 DEPARTMENT OF TRANSPORTATION

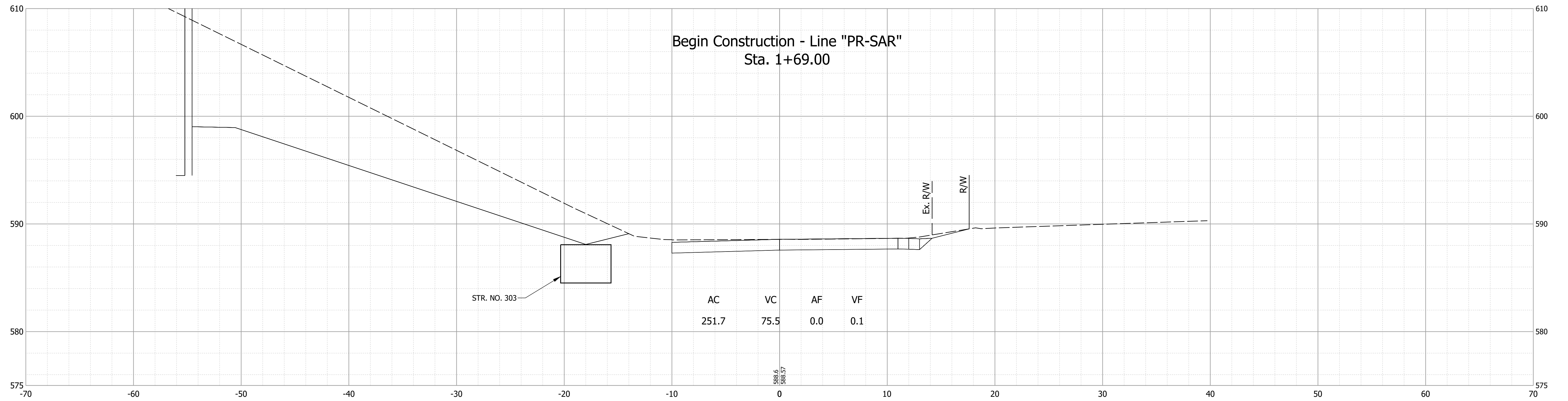
CROSS SECTIONS
 LINE "PR-SAR"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	1900009
SURVEY BOOK	SHEET
ELECTRONIC	70 of 76
CONTRACT	PROJECT
B-43636	1900009

1+78.50



1+69



Date: Nov 21, 2023 5:40pm User Name: mackley File: X:\Production\Files\2019\19-0350\CAD\CrossSection\SAR Cross Sections.dwg

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

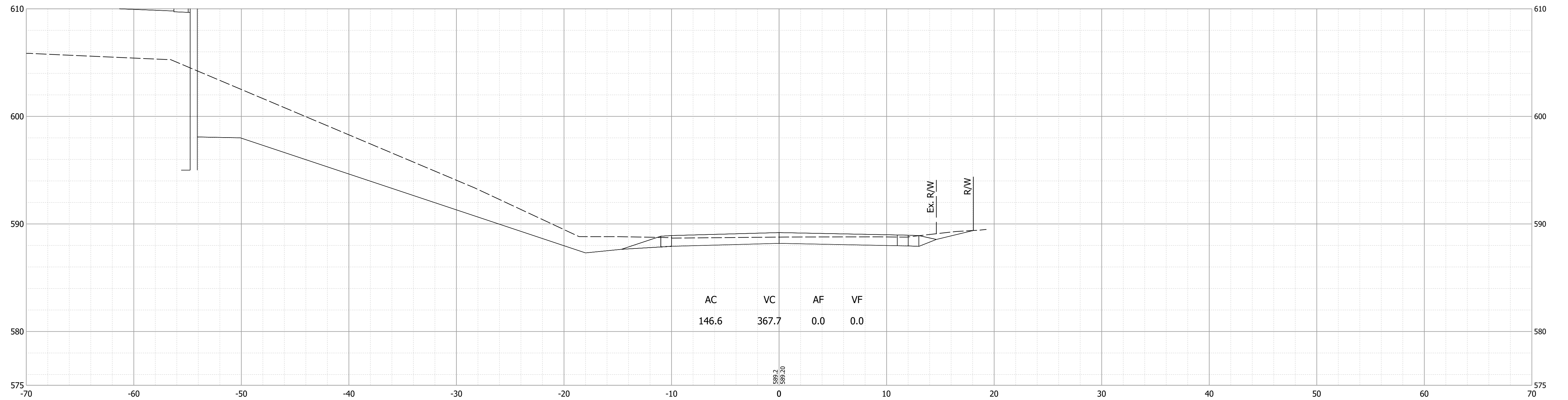
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INDIANA DEPARTMENT OF TRANSPORTATION

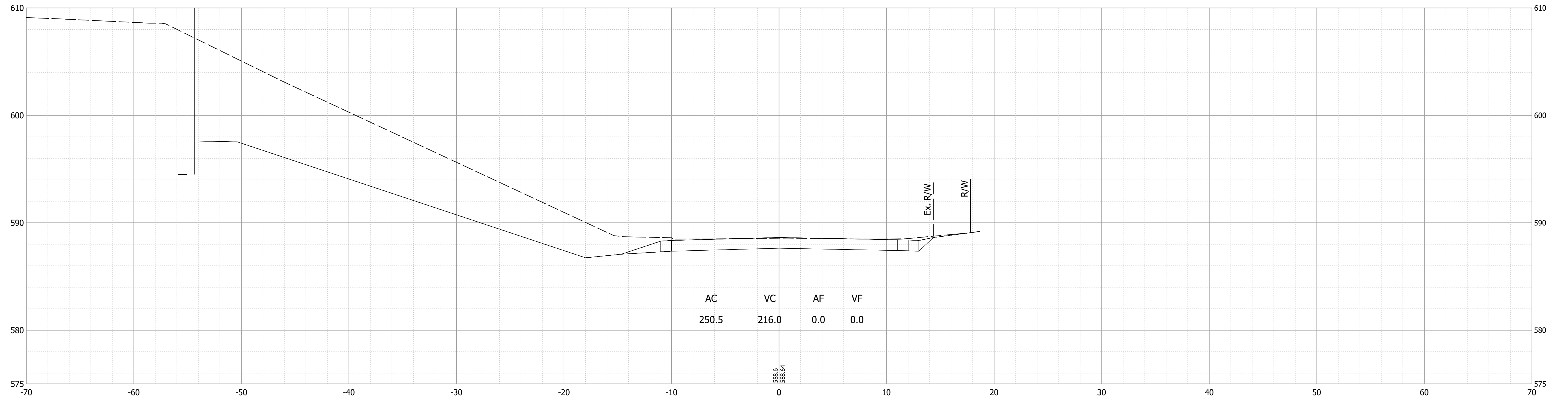
CROSS SECTIONS LINE "PR-SAR"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	1900009
SURVEY BOOK	SHEET
ELECTRONIC	71 of 76
CONTRACT	PROJECT
B-43636	1900009

2+50



2+00



Date: Nov 21, 2023 5:40pm User Name: mackley
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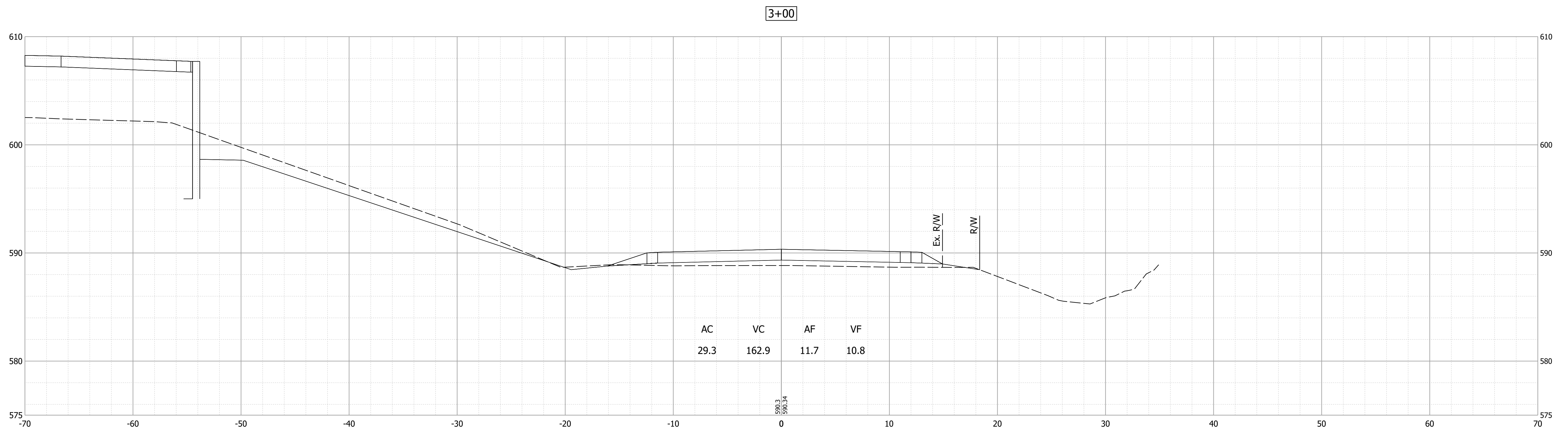
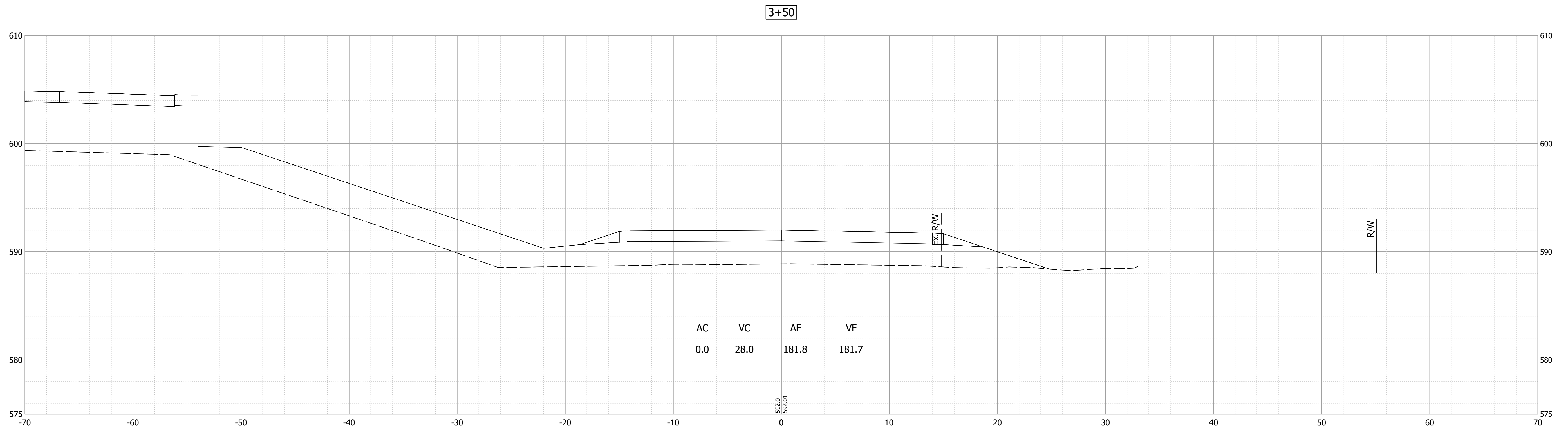
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NOT FOR CONSTRUCTION
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
		11/21/2023
DESIGNED: MJO	DRAWN: MJO	
CHECKED: BSS	CHECKED: BJS	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-SAR"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	1900009
SURVEY BOOK	SHEET
ELECTRONIC	72 of 76
CONTRACT	PROJECT
B-43636	1900009



Date: Nov 21, 2023 5:40pm User Name: mackley
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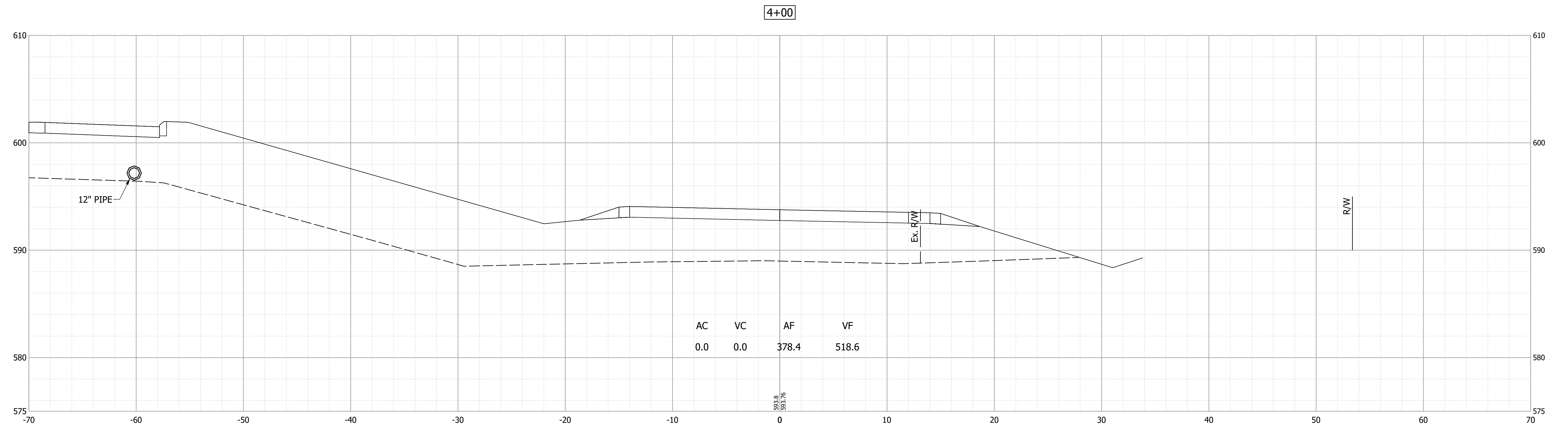
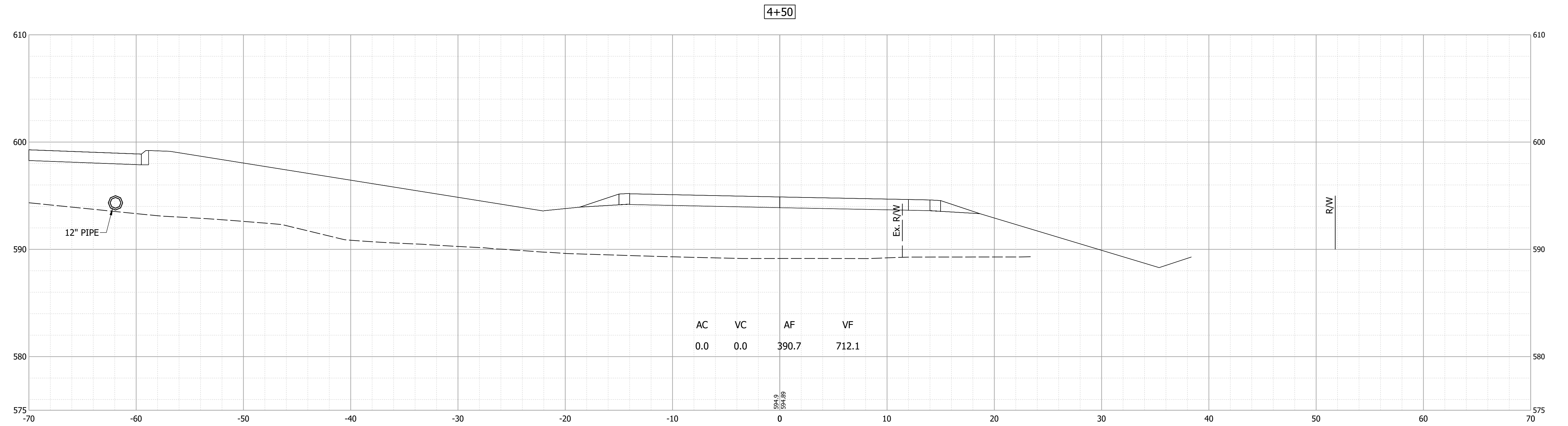
PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	11/21/2023 DATE
DESIGNED: MJO	DRAWN: MJO	
CHECKED: BSS	CHECKED: BJS	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-SAR"

HORIZONTAL SCALE 1" = 5'-0"	BRIDGE FILE 020-45-02821
VERTICAL SCALE 1" = 5'-0"	DESIGNATION 1900009
SURVEY BOOK ELECTRONIC	SHEET 73 of 76
CONTRACT B-43636	PROJECT 1900009



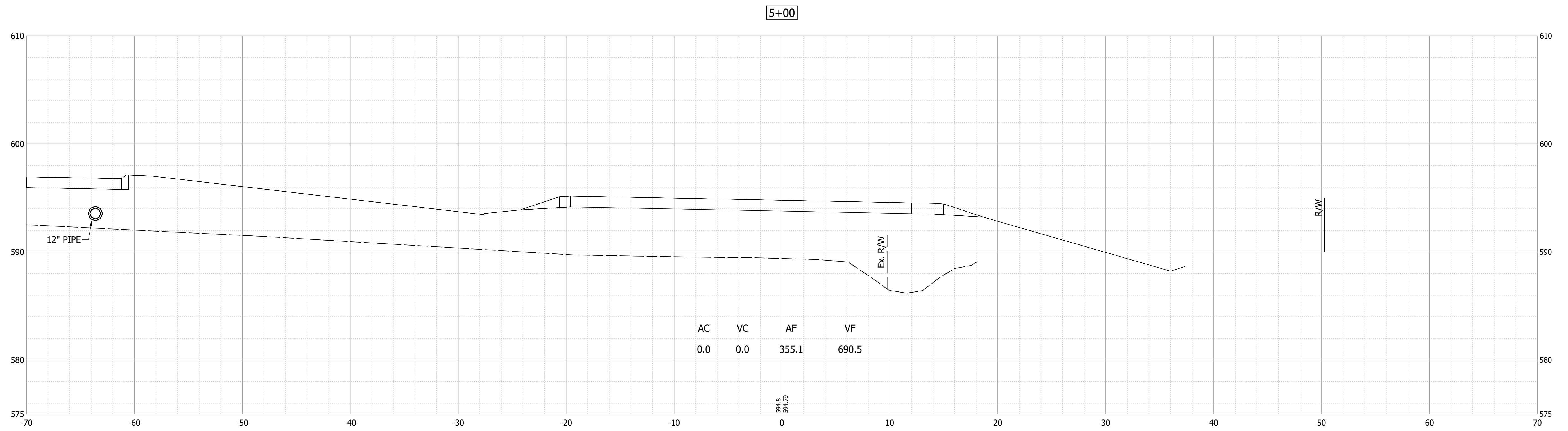
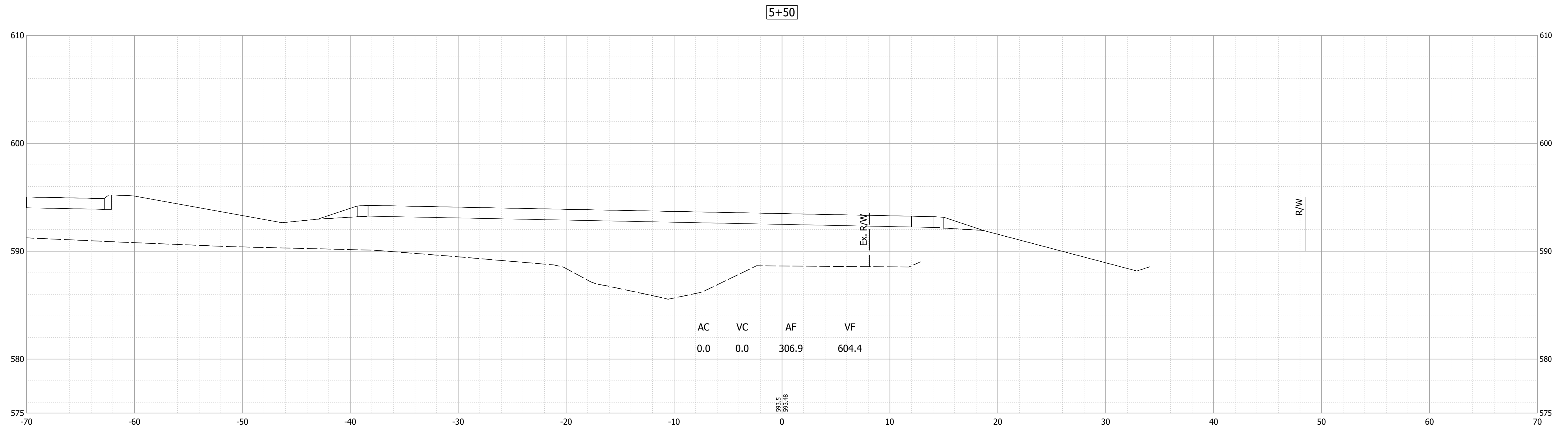
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PRELIMINARY
 NOT FOR CONSTRUCTION
 DATE: 11/21/2023

RECOMMENDED FOR APPROVAL _____ 11/21/2023
 DESIGN ENGINEER DATE
 DESIGNED: MJO DRAWN: MJO
 CHECKED: BSS CHECKED: BJS

INDIANA
 DEPARTMENT OF TRANSPORTATION
 CROSS SECTIONS
 LINE "PR-SAR"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	1900009
SURVEY BOOK	SHEET
ELECTRONIC	74 of 76
CONTRACT	PROJECT
B-43636	1900009



Date: Nov 21, 2023 5:40pm User Name: mackley
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PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 11/21/2023

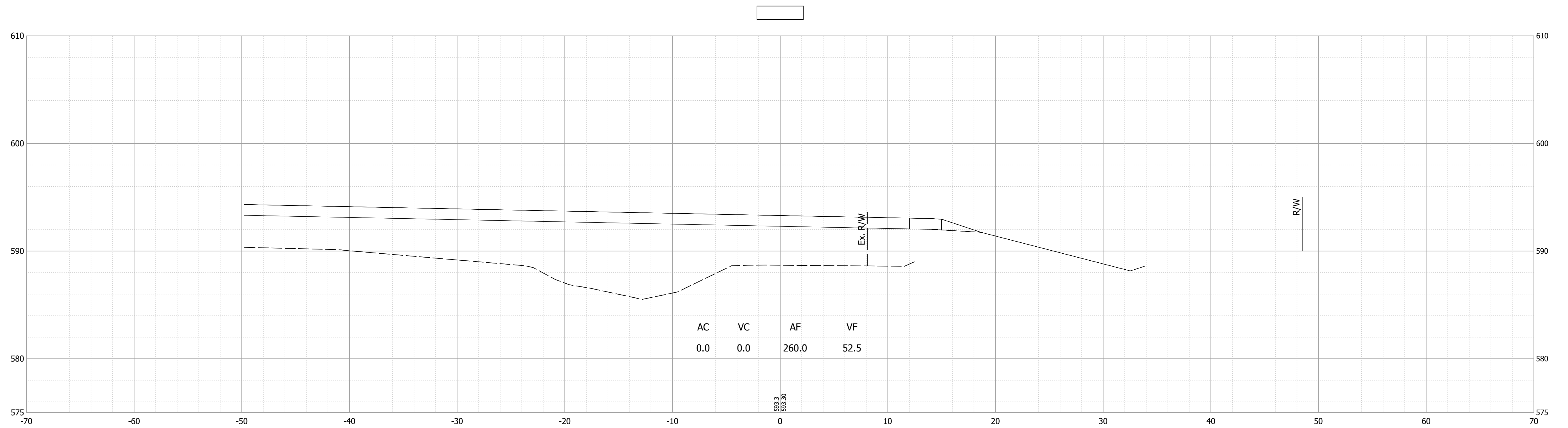
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
		11/21/2023
DESIGNED: MJO	DRAWN: MJO	
CHECKED: BSS	CHECKED: BJS	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-SAR"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	1900009
SURVEY BOOK	SHEET
ELECTRONIC	75 of 76
CONTRACT	PROJECT
B-43636	1900009

Date: Nov 21, 2023 5:54pm User Name: mackley
 File: X:\Production\Files\2019\19-0350\CAD\CrossSection\SAR Cross Sections.dwg



PRELIMINARY
 NOT FOR CONSTRUCTION
 DATE: 11/21/2023

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
		11/21/2023
DESIGNED: MJO	DRAWN: MJO	
CHECKED: BSS	CHECKED: BJS	

INDIANA
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 LINE "PR-SAR"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	020-45-02821
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	1900009
SURVEY BOOK	SHEET
ELECTRONIC	76 of 76
CONTRACT	PROJECT
B-43636	1900009