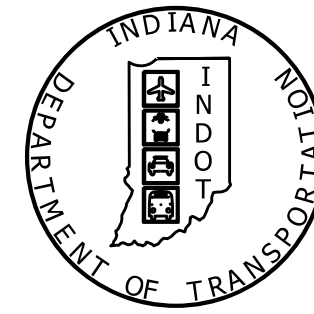


# INDIANA DEPARTMENT OF TRANSPORTATION



PROJECT	DESIGNATION
1800075	1800075
CONTRACT	BRIDGE FILE
B-43793	032-54-03644

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
032-54-10370	Precast Concrete Three-Sided Structure	36'-0" Span x 12'-6" Rise Skew: 25°00'00", Rt.	MILL CREEK	15+33.71 "PR-A"

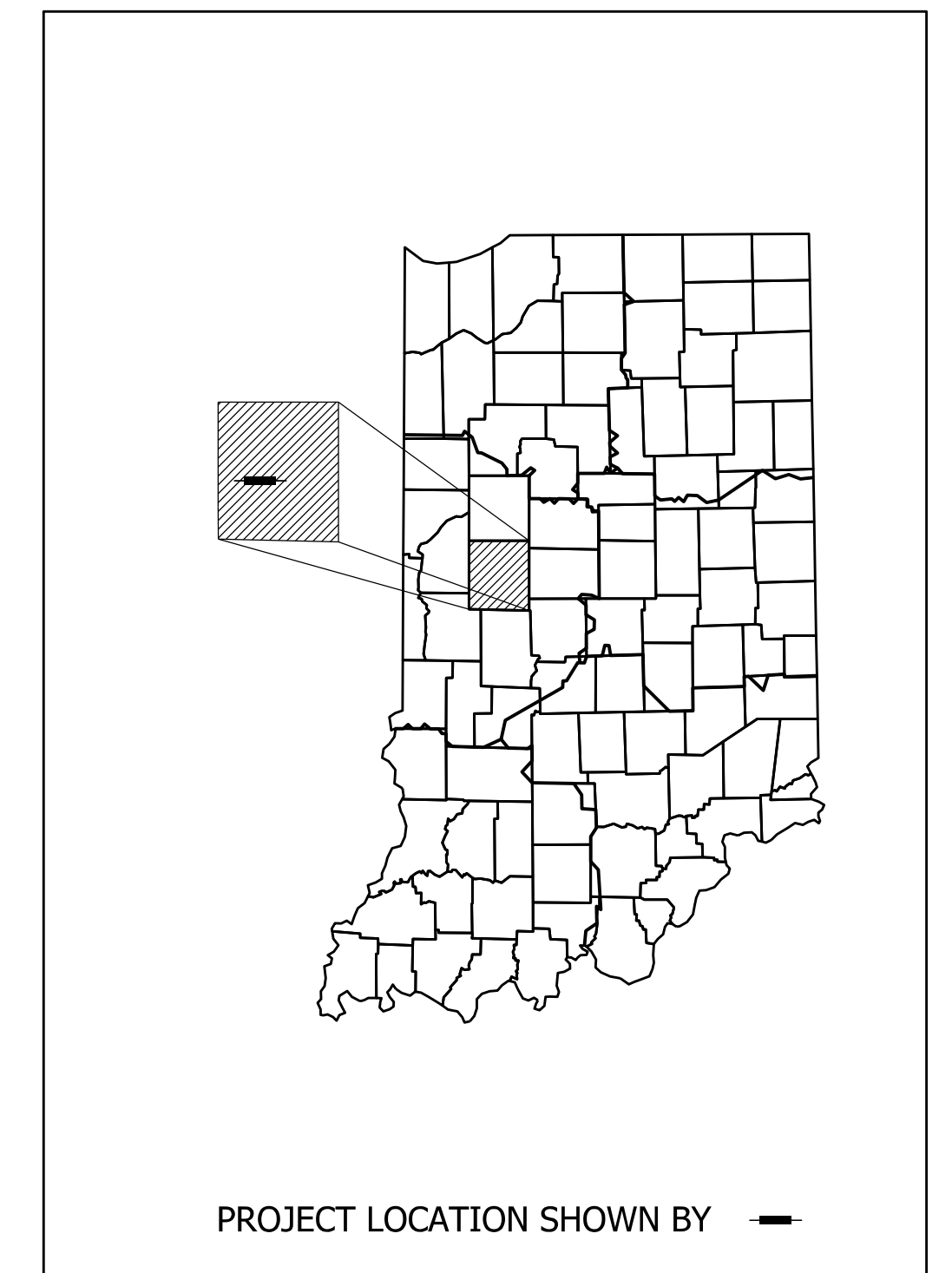
TRAFFIC DATA		
A.A.D.T.	(2023)	2,800 V.P.D.
A.A.D.T.	(2043)	2,818 V.P.D.
D.H.V	(2043)	274 V.P.H.
DIRECTIONAL DISTRIBUTION		48.07% NB
TRUCKS		5.94% A.A.D.T. 5.88% D.H.V

DESIGN DATA	
DESIGN SPEED	50 M.P.H.
PROJECT DESIGN CRITERIA	3R (Non-Freeway)
FUNCTIONAL CLASSIFICATION	State Collector
RURAL/URBAN	Rural
TERRAIN	Level
ACCESS CONTROL	None

## BRIDGE PLANS FOR SPANS OVER 20 FEET ROUTE: S.R. 32 AT: RP 32+12

PROJECT NO. 1800075 P.E.  
1800075 C.E.  
1800075 R/W

BRIDGE REPLACEMENT, STR. NO. 032-54-10370 ON S.R. 32 OVER MILL CREEK, LOCATED 3.7 MILES WEST OF S.R. 47 IN SECTION 3, T18N, R5W AND SECTION 10, T18N, R5W IN RIPLEY TOWNSHIP, MONTGOMERY COUNTY, INDIANA



LATITUDE: 40°01'29" N LONGITUDE: 86°58'36" W

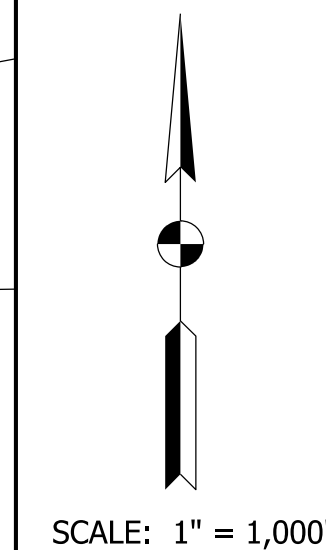
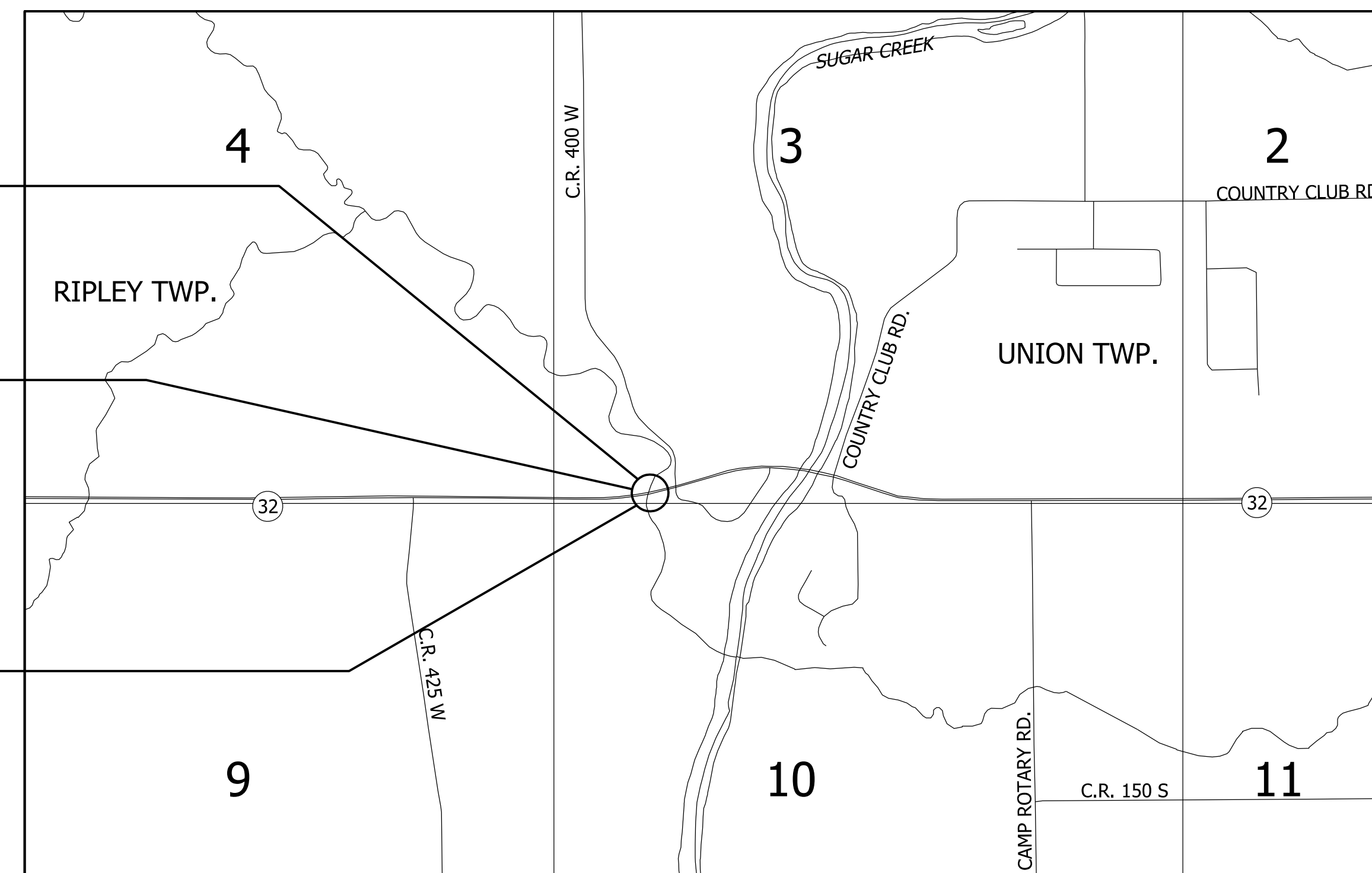
BRIDGE LENGTH:	0.008	MI.
ROAD LENGTH:	0.071	MI.
TOTAL LENGTH:	0.079	MI.
MAX. GRADE:	3.35%	%

HUC: 051201100604

BEGIN PROJECT NO. 1800075  
STA 13+10.00 LINE "PR-A"

PROJECT LOCATION  
STRUCTURE 032-54-10370  
STA 15+33.71 LINE "PR-A"

END PROJECT NO. 1800075  
STA 17+25.00 LINE "PR-A"



STAGE 2 PLANS  
February 18, 2022

VINCINITY MAP  
Montgomery County  
Ripley Township

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

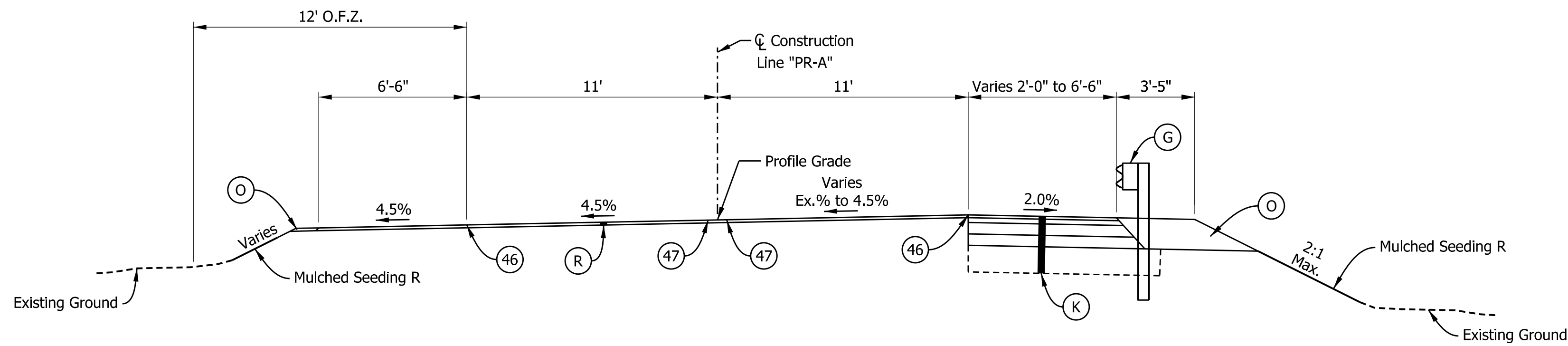
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MODEL NAME: Sheet  
DATE PLOTTED: 6/22/2023  
TIME PLOTTED: 9:43:34 AM



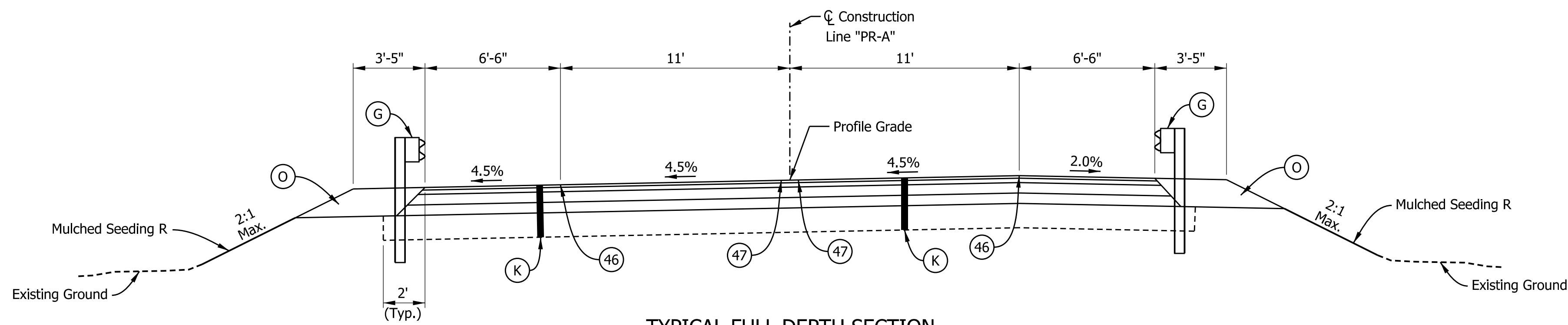
PLANS PREPARED BY:	CHA Consulting, Inc.	317.786.0461 PHONE NUMBER
CERTIFIED BY:		DATE
APPROVED FOR LETTING:		INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE FILE	
032-54-10370	
DESIGNATION	
1800075	
SHEETS	
N/A	1 of 40
CONTRACT	PROJECT
B-43793	1800075

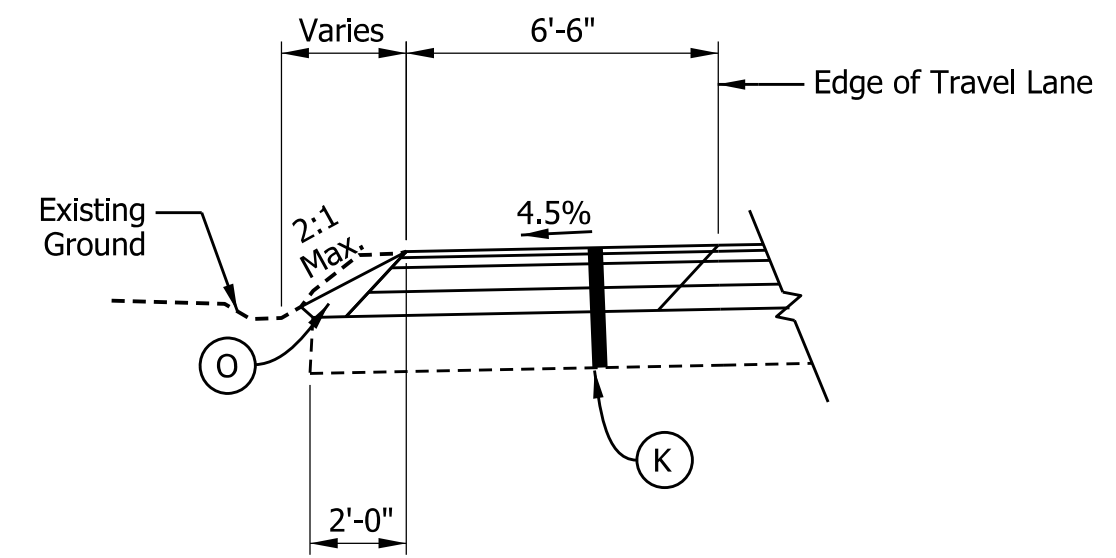




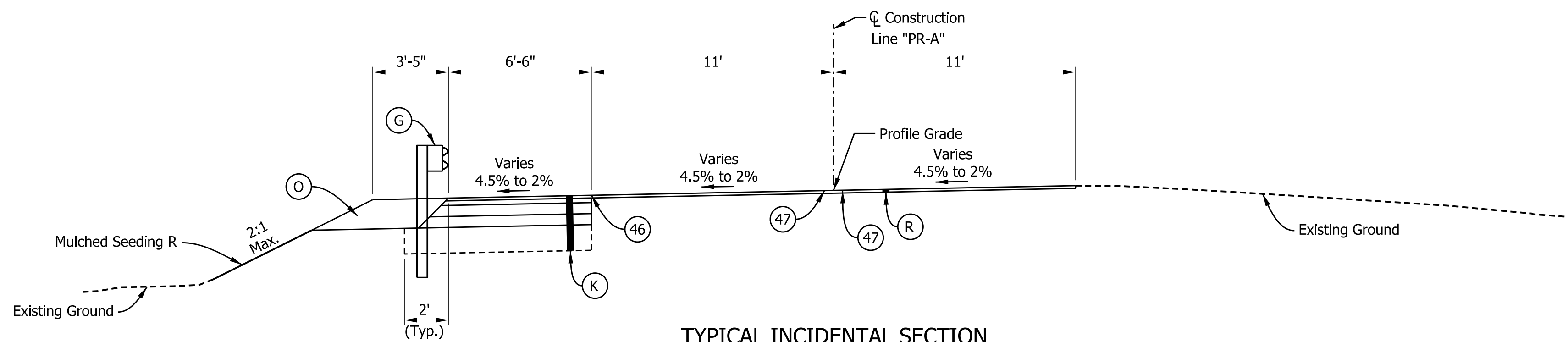
**TYPICAL INCIDENTAL SECTION**  
Sta. 12+35.00 To Sta. 13+10.00 "PR-A"



**TYPICAL FULL DEPTH SECTION**  
Sta. 13+10.00 To Sta. 17+25.00 "PR-A"



**TYPICAL SECTION WITHOUT GUARDRAIL**  
Sta. 13+10.00 To Sta. 14+05.00 "PR-A" Left



**TYPICAL INCIDENTAL SECTION**  
Sta. 17+25.00 To Sta. 17+50.00 "PR-A"

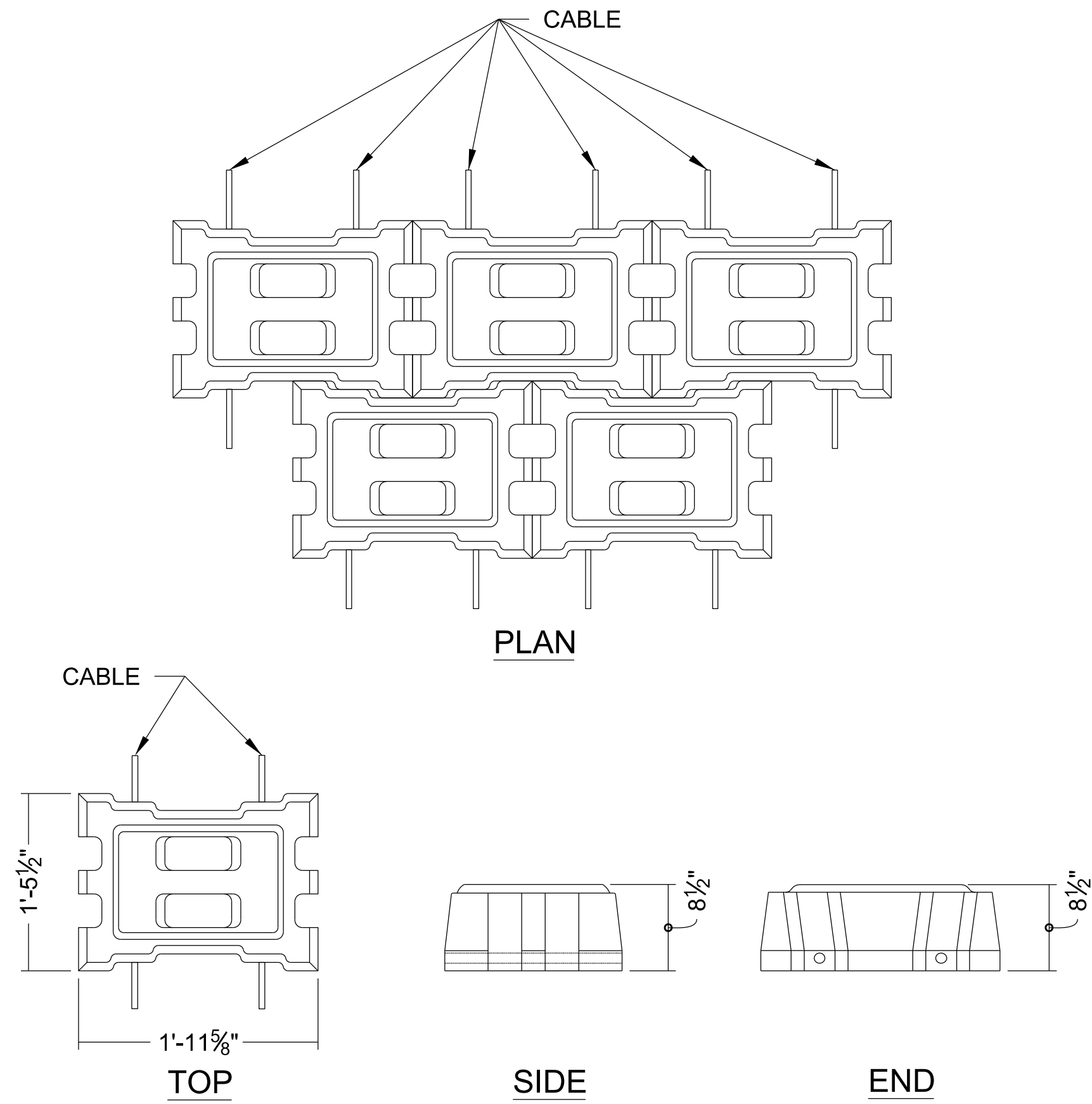
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 MODEL NAME: Sheet  
 DATE PLOTTED: 6/22/2023  
 TIME PLOTTED: 9:43:36 AM

LEGEND	
(K) Full Depth HMA Pavement 165 lbs/sys QC/QA HMA, 3, 64, Surface, 9.5 mm on 275 lbs/sys QC/QA HMA, 3, 64, Intermediate, 19.0 mm on 660 lbs/sys QC/QA HMA, 3, 64, Base, 25.0 mm on (Provide Tack Coat between HMA layers) Subgrade Treatment, Type 1C on Geotextile for Pavement Type 2B	(O) Variable Depth Compacted Aggregate No. 53
(R) Transition Milling (4" Max.) and Overlay 165 lbs/sys QC/QA HMA, 3, 64, Surface, 9.5 mm on 275 lbs/sys QC/QA HMA, 3, 64, Intermediate, 19.0 mm on	(G) Guardrail, MGS W-Beam
	O.F.Z. = Obstruction Free Zone
	(46) 6 IN. Solid White Thermoplastic Paint Line
	(47) 6 IN. Solid Yellow Thermoplastic Paint Line

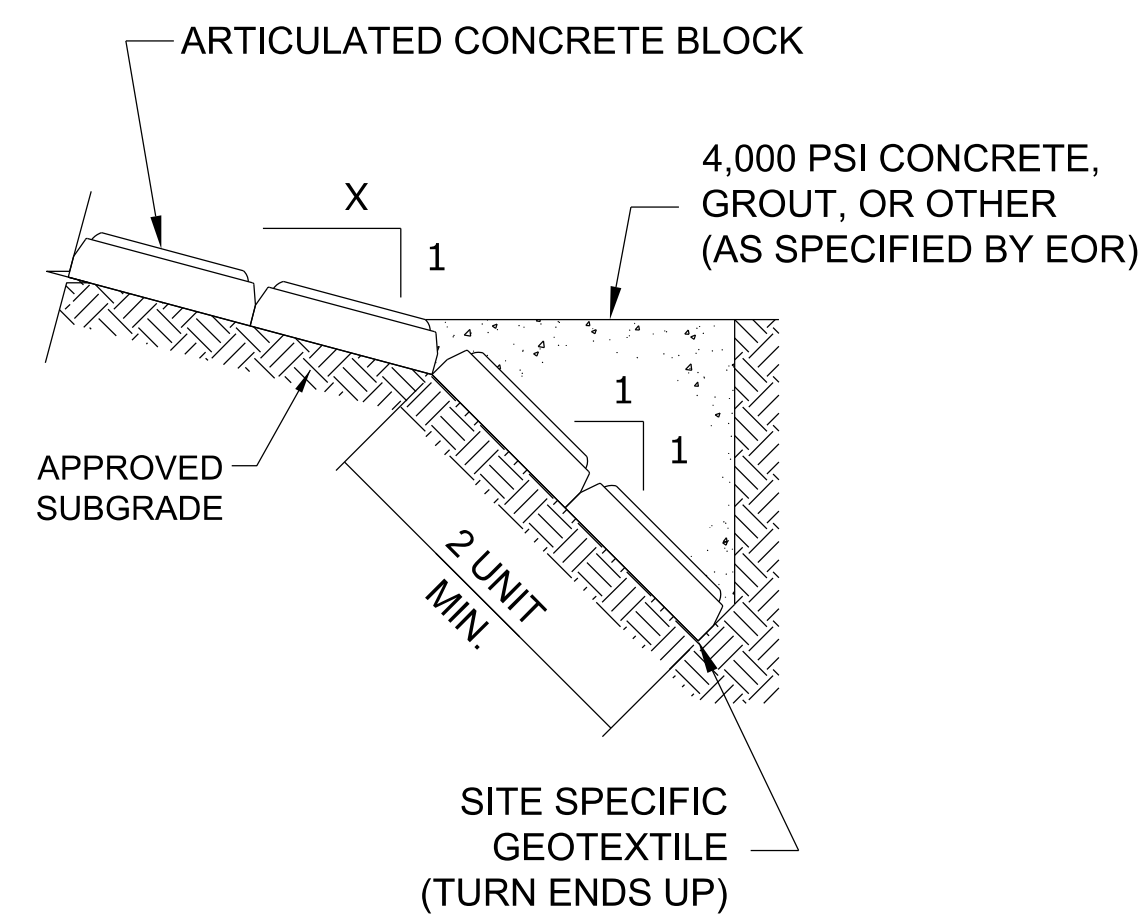
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JSS	DRAWN: AED	
CHECKED: DRD	CHECKED: BTH	

<b>INDIANA DEPARTMENT OF TRANSPORTATION</b>	
<b>TYPICAL SECTION</b>	

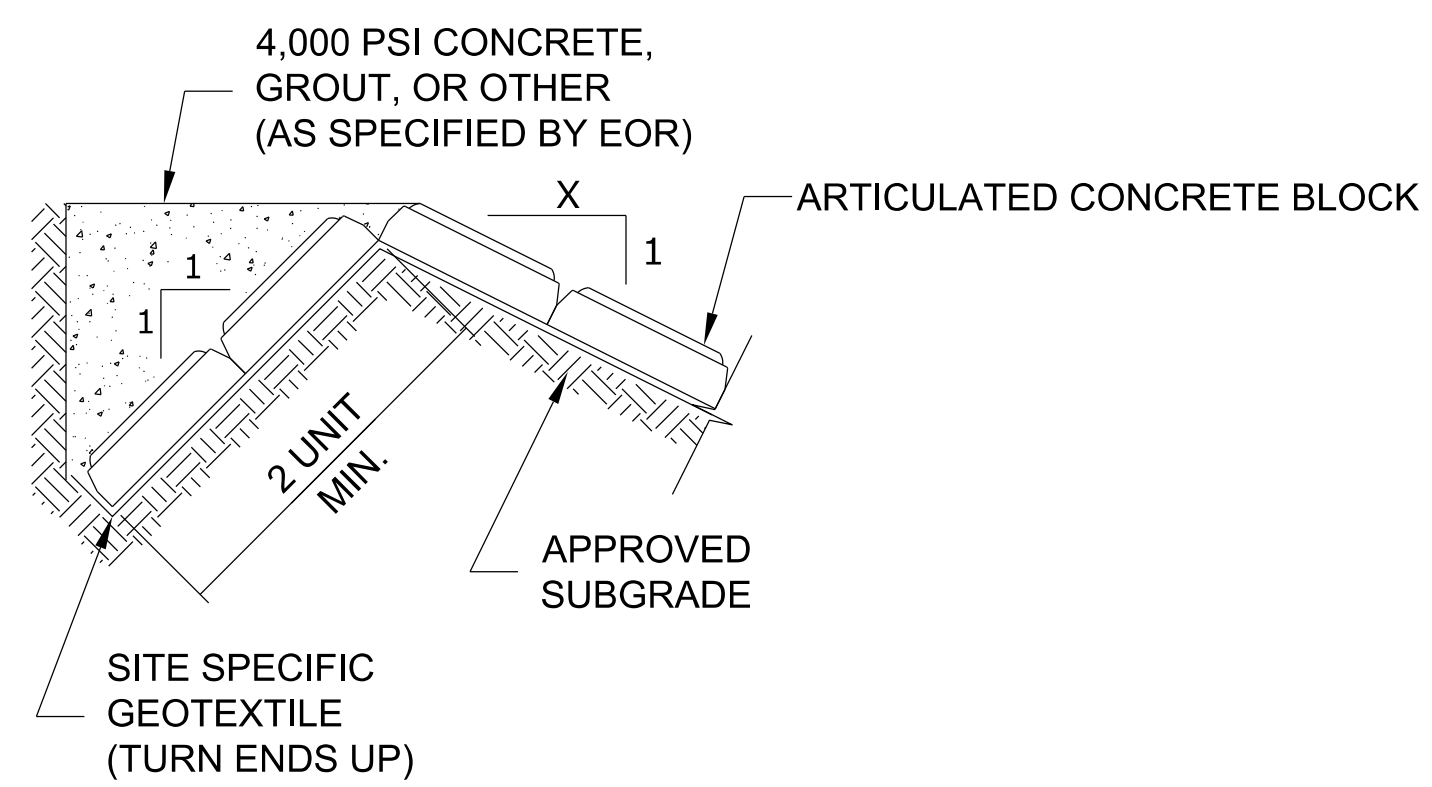
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VERTICAL SCALE	DESIGNATION 1800075
SURVEY BOOK N/A	SHEETS 3 of 40
CONTRACT B-43793	PROJECT 1800075



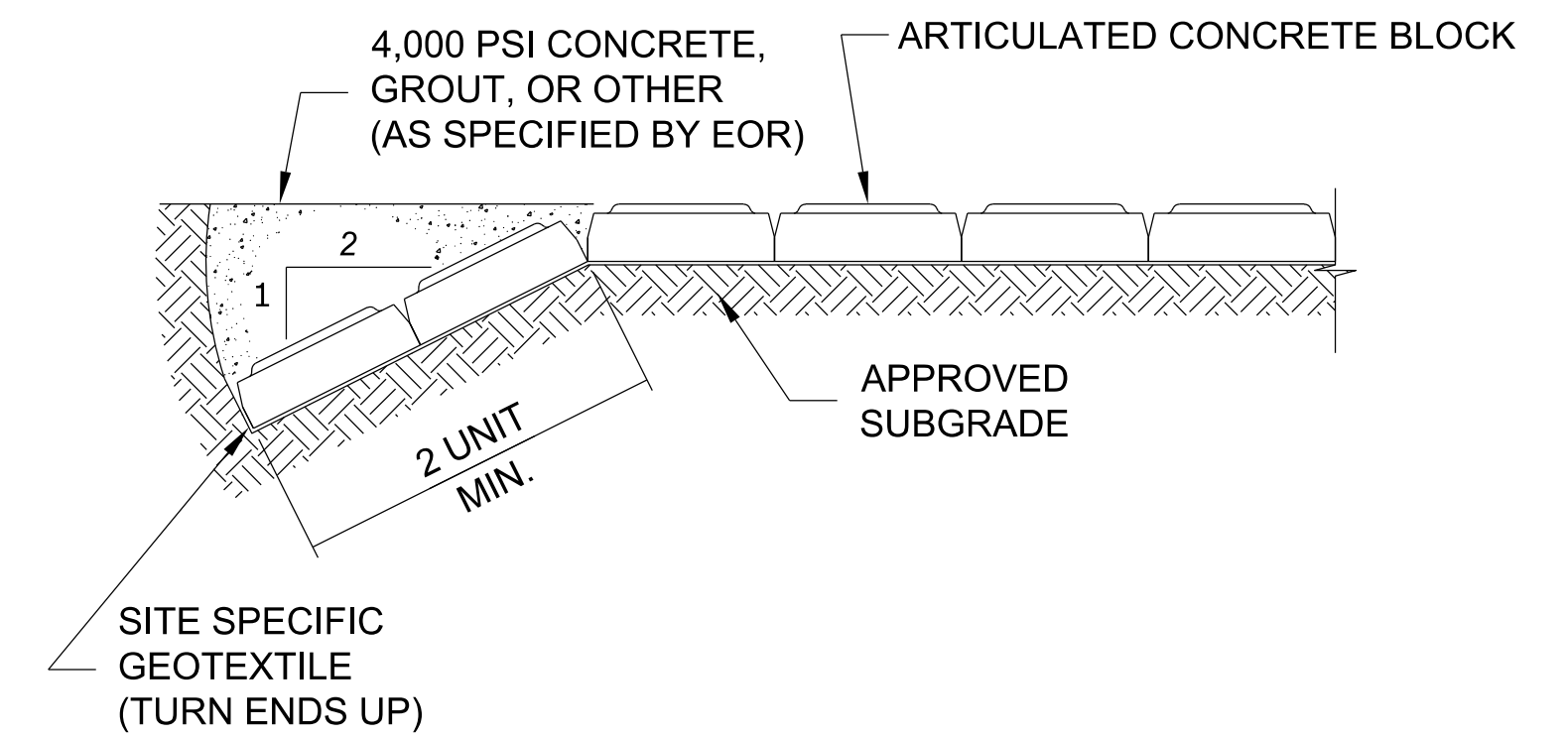
**TYPICAL BLOCK**  
N.T.S.



**TOE TERMINATION SECTION**  
N.T.S.



**TOP TERMINATION SECTION**  
N.T.S.



**FLANK TERMINATION SECTION**  
N.T.S.

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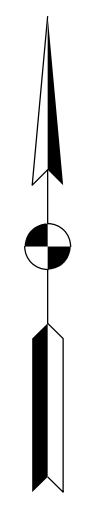
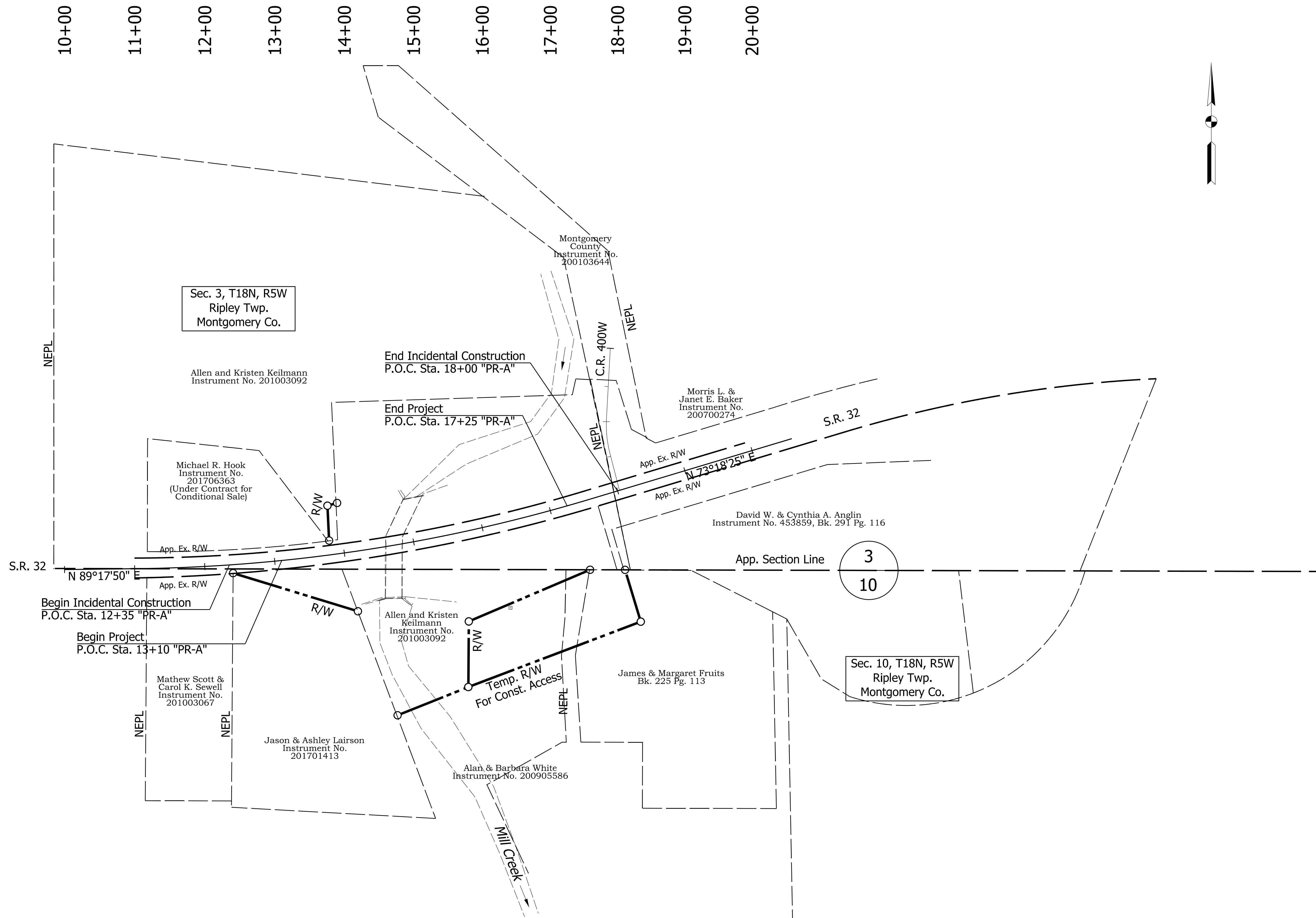
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JSS	DRAWN: AED	
CHECKED: DRD	CHECKED: BTH	

**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**  
  
**MISCELLANEOUS DETAILS**  
**ARTICULATED CONCRETE BLOCK**

HORIZONTAL SCALE	BRIDGE FILE
NTS	032-54-10370
VERTICAL SCALE	DESIGNATION
NTS	1800075
SURVEY BOOK	SHEETS
N/A	4 of 40
CONTRACT	PROJECT
B-43793	1800075



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 TIME PLOTTED: 9:43:39 AM



RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
DESIGNED: JSS	DRAWN: AED		
CHECKED: DRD	CHECKED: BTH		

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
  
 PLAT NO. 1

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE 032-54-10370
VERTICAL SCALE	DESIGNATION 1800075
SURVEY BOOK N/A	SHEETS 5 of 40
CONTRACT B-43793	PROJECT 1800075

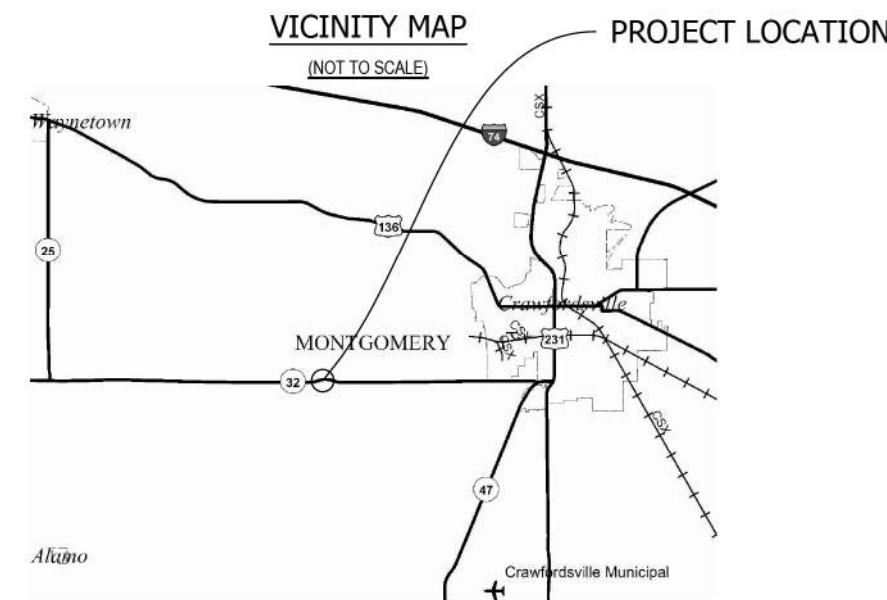


# LOCATION CONTROL ROUTE SURVEY

FOR THE INDIANA DEPARTMENT OF TRANSPORTATION  
STATE ROAD 32, DES. NO. 1800075  
RIPLEY TOWNSHIP, MONTGOMERY COUNTY, INDIANA

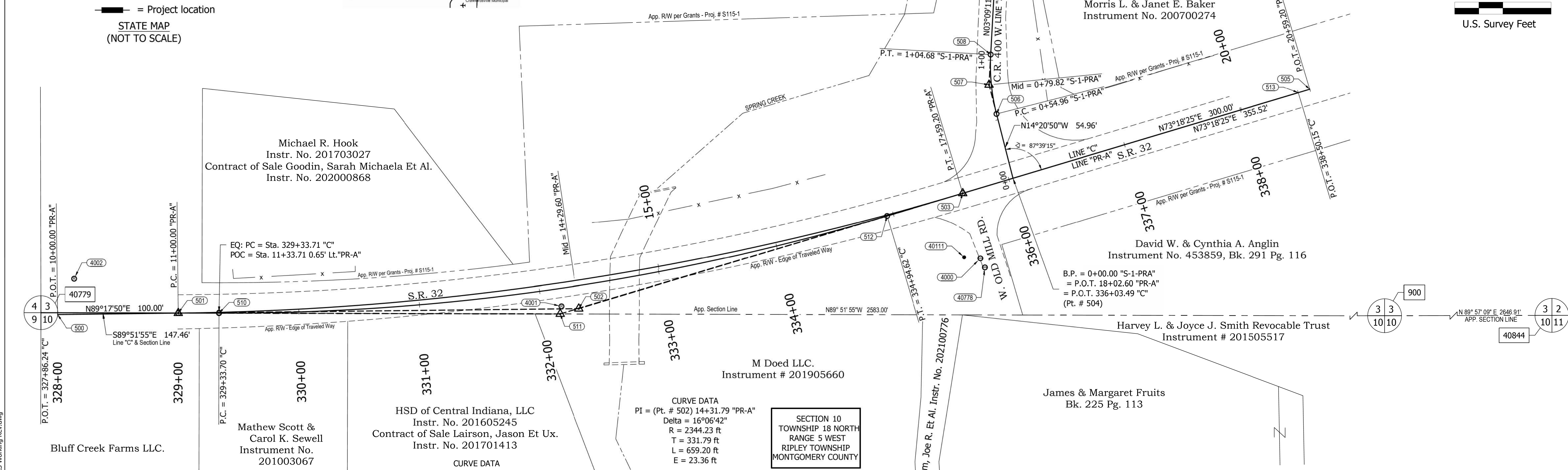
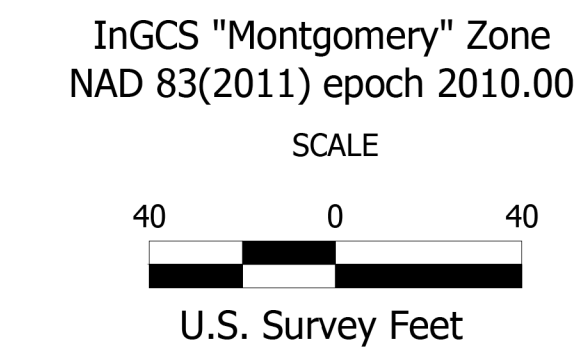


STATE MAP (NOT TO SCALE)



**LEGEND**

- REBAR
- MAGNAIL
- FENCE POST
- - - FENCE LINE
- - - CENTERLINE OF CREEK

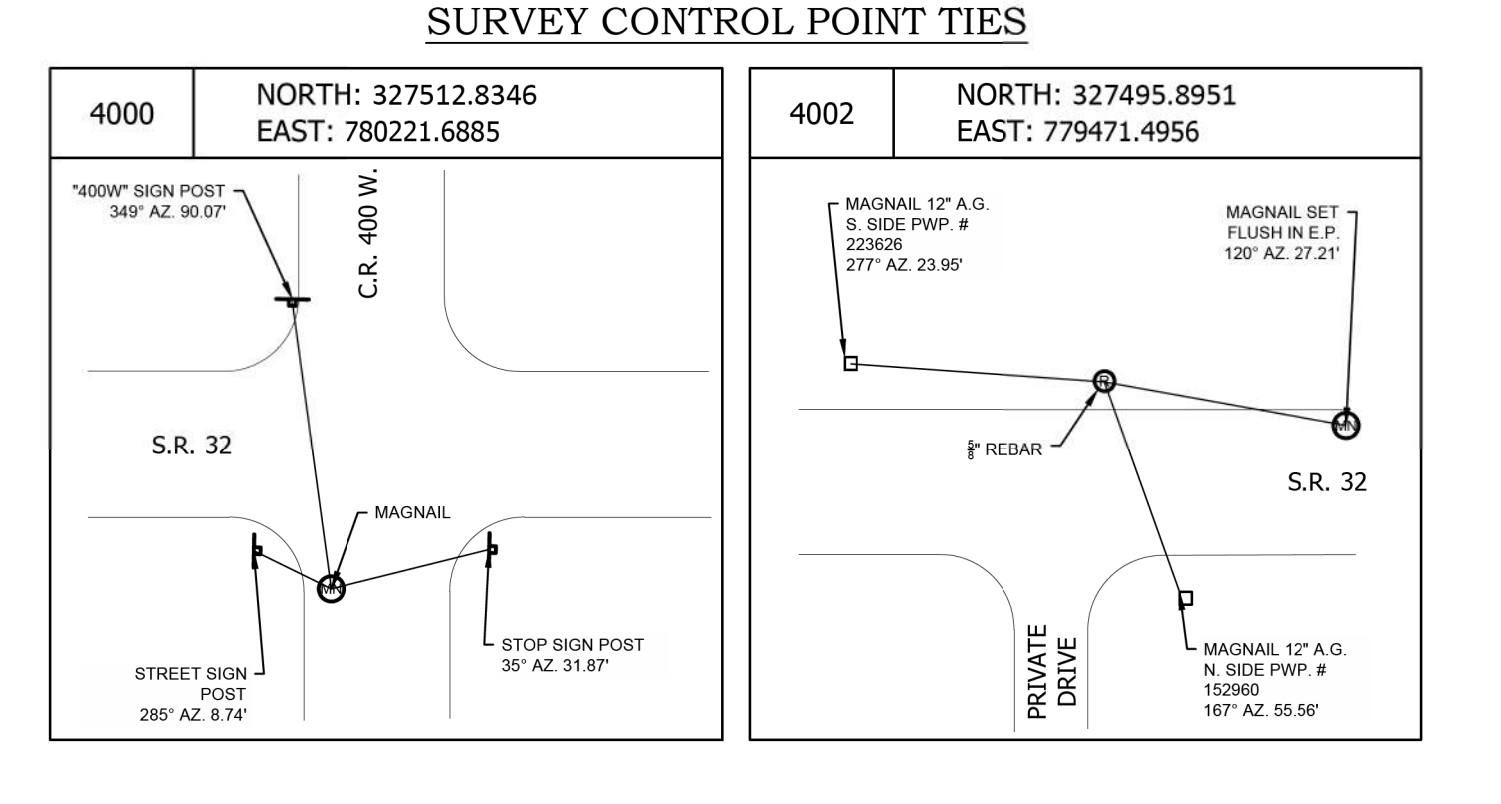
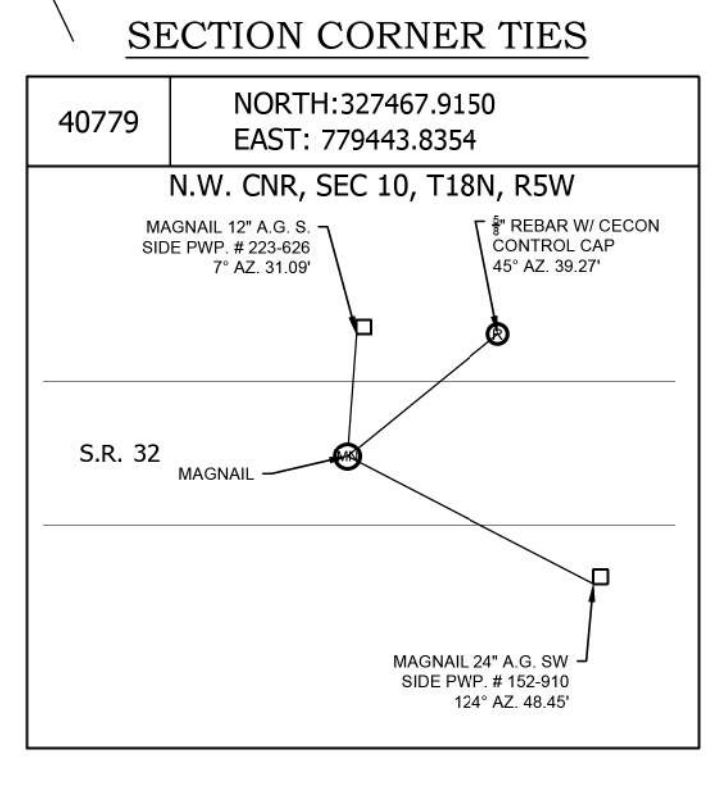


**Point Numbering Note**  
See the following pages of this LCRS for the Surveyor's Report and a description of Survey Control Points and Monuments located during the field work segment of this survey. All point numbers on this page having corresponding point numbers on the following pages refer to the same Point/Monument.

**Field Work Date Notes**  
"Survey Started" date and "Survey Completed" date shown below indicate the first and last dates field work was performed on this project. It does not represent a continuous time span of work for this project. Field work was intermittently stopped and re-started as necessary due to work on other projects.

**Easement Note**  
Location of any easements shown on this plat are based on the last/oldest deeds of record obtained from the appropriate County Recorder's Office when the research was performed, as well as from other sources cited on this plat, and in no way represent all possible easements that may be recovered as a result of an exhaustive title search.

**Right-of-Way Note**  
The existing right-of-way lines, parcel lines & ownership information shown on this plat are preliminary and subject to change based on verification of title. The information is shown only to help orient the user of this plat as it relates to project centerlines and is not intended to establish existing right-of-way lines or parcel lines. The source used to plot existing right-of-way lines and ownership lines shown on this plat is from the last/current deeds of record obtained from the appropriate County Recorder's Office when the research is performed, as well as other sources cited on this plat. Where no record of right-of-way could be found, the edge of pavement shown may possibly act as right-of-way. The designer/consultant responsible for Right-of-Way Engineering is to complete the final determination of this information.

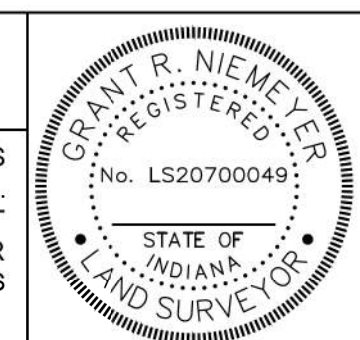


SURVEY STARTED	
8-9-2019	
SURVEY COMPLETED	
8-19-2019 - Revised 11-17-2021	
ROUTE PLAT SHEETS	
1	2

**CECON**  
Civil Engineering Consultants, Inc.  
1285 S. Jackson Street, Suite B  
Greencastle, IN 46135 | Tel: 765.653.6710

**FIELD SURVEYOR STATEMENT**

THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF TITLE 865 I.A.C. 1-12-20 THROUGH 1-12-25 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.



PREPARED BY  
*Shane D. Nimeyer*  
PROFESSIONAL SURVEYOR  
11-17-2021

DRAWN: WH CHECKED: GRN

INDIANA DEPARTMENT OF TRANSPORTATION  
**LOCATION CONTROL ROUTE SURVEY**  
S.R. 32 MONTGOMERY COUNTY

SCALE	BRIDGE FILE
1"=40'	N/A
COUNTY	DESIGNATION
MONTGOMERY	1800075
SURVEY BOOK	SHEETS
N/A	6 of 40
CONTRACT	PROJECT
N/A	19-014(CECon)

S:\Projects\19-014 Des 1800075-Mont Cnty SR32-CHALCRS\_RW\_Boundary\Working Drawings\19-014 LCRS Working Rev.dwg



**SURVEY REPORT**

This survey plat has been revised from its original version, as originally recorded in the office of the Montgomery County Recorder office on November 13<sup>th</sup>, 2019, as Instrument Number 201906164.

The newly added revisions are reflected herein as presented and discussed below:

**Intent of Survey:**

The purpose of this survey is to provide the client with a Location Control Route Survey plat (as defined in Title 865 of the Indiana Administrative Code as a "Route Survey") using Indiana Geospatial Coordinate System (InGCS) zone and provide a Topographic Survey. The project scope generally consists of the following Topographic and Route Survey limits, along SR 32 approximately 3.7 miles West of SR 47 and the Town of Crawfordsville, Indiana, in Montgomery County, Indiana. The project scope generally consists of the following Topographic and Route Survey limits, (starting from the center of the existing structure) approximately 500 feet eastwardly and 500 feet westward of the bridge over Spring Creek along SR 32, and 500 feet upstream and downstream of the bridge. Civil Engineering Consultants Inc. (hereinafter referred to as CECon Services) was charged with providing horizontal control and vertical control, collection of elevation information within the site area designated by the client (including ditches, grade breaks, observed structures and cross sections of the creek at requested intervals and limits etc.) and to provide a Topographic Survey and Route Survey of the subject area. The general location is within parts of Section 10, Township 18 North, Range 5 West, Ripley Township, Montgomery County, Indiana.

**Project Control and Basis of Bearings:**

The coordinates provided herein are based on GPS observations using the Indiana Geospatial Coordinate System (Montgomery County Zone - N.A.D. 1983, 2011). The coordinate system used for this survey is based on the Indiana State Plane Grid System; a scaled ground system was not used for this site. Geoid Model 12B was used for all GPS observations. The said system was verified utilizing the INDOT Continuously Operating Reference Station (INCORS) a real-time kinematic (RTK) correction service over the internet. Providing Network RTK in RTCM (Real Time Correction Message) 2.3, and 3.1 in the MAX (R2K2 Full) and I-MAX (R2K2 LITE) formats via NTRIP (Networked Transport of RTCM via Internet) and TCP/IP, as well as CMR and CMR+ in the MAX (R2K2 Full) and I-MAX (R2K2 LITE) formats via NTRIP, and TCP/IP.

**NGS Control Point Check-in**

Designation - A 105

PID - KA0639

Published Coordinates (InGCS)    Observed Coordinates    Delta (Δ) Value

Northing: 311,601.7177 U.S. Ft.    Northing: 311,601.7177 U.S. Ft.    - 0.0359'

Easting: 796,817.5627 U.S. Ft.    Easting: 796,817.5627 U.S. Ft.    +0.0095'

The monument was verified utilizing the INDOT Continuously Operating Reference Station (INCORS) a real-time kinematic (RTK) correction service over the internet. This system is stated by INDOT as "Providing Network RTK in RTCM (Real Time Correction Message) 2.3, and 3.1 in the MAX (R2K2 Full) and I-MAX (R2K2 LITE) formats via NTRIP (Networked Transport of RTCM via Internet) and TCP/IP, as well as CMR and CMR+ in the MAX (R2K2 Full) and I-MAX (R2K2 LITE) formats via NTRIP, and TCP/IP."

**Metadata:**

InGCS "Montgomery" Zone Parameters  
Geometric Datum: NAD 83(2011) epoch 2010.00  
Projection Type: Transverse Mercator  
Central Meridian: 86°57'00" west longitude  
Central Meridian scale factor: 1.000031  
Latitude of Grid Origin: 38°27'00" North latitude

False Northing: 36000 m (118,110 U.S. Ft)  
False Easting: 240000 m (787,400 U.S. Ft)

**Plans / Right of Way information utilized:**

- 1) State of Indiana Highway Commission, Bridge Plans for Project No. S-115(1), recovered from INDOT. Approved September 9<sup>th</sup>, 1946.
- 2) State Highway Commission of Indiana, Right of Way Grants for Project No. S-115(1) dated 1946 and recorded in timely fashion in the Montgomery County Recorder's Office.
- 3) The edge of the traveled way is also delineated as the existing right of way for this survey. Although right of way grants were provided by INDOT, they do not cover all the south side of SR 32 within the project limits.

**Field Work Date Notes**  
"Survey Started" date and "Survey Completed" date shown below indicate the first and last dates field work was performed on this project. It does not represent a continuous time span of work for this project. Field work was intermittently stopped and re-started as necessary due to work on other projects.

SURVEY STARTED		
8-9-2019		
SURVEY COMPLETED		
8-19-2019		
ROUTE PLAT SHEETS		
2	OF	2



1285 S. Jackson Street, Suite B  
Greencastle, IN 46135 | Tel: 765.653.6710

**General Notes:**

CECon, Inc. is a sub-consultant to CHA Consultants Incorporated (CHA).

INDIANA ADMINISTRATIVE CODE: In accordance with Title 865, Article 1, Chapter 12 ("Rule 12") of the Indiana Administrative Code-State Board of Registration for Land Surveyors, the following observations and opinions are submitted regarding the various uncertainties in the locations of the lines and corners established this survey as a result of uncertainties in reference monumentation (both availability and condition); in lines of occupation or possession; in record descriptions and/or plats; and as introduced by random errors in measurement ("Relative Positional Accuracy"). THERE MAY BE UNWRITTEN RIGHTS ASSOCIATED WITH THESE UNCERTAINTIES. The client should assume there is an amount of uncertainty along ANY line or at ANY corner equal in magnitude to the discrepancy in the location of the lines of occupation or possession from the surveyed lines and corners.

As used in this survey, the term "certify" means to state or declare a professional opinion of conditions regarding those facts or findings which are the subject of the certification and does not constitute a warranty or guarantee, either expressed or implied. The surveyor can only certify to those items that are visible and/or things that can be observed, measured, or counted.

Existing monuments recovered and discussed within this report (said points depicted on the plat pages, alignment, and control references and in the coordinate table) represent true and accurate locations as depicted, corresponding with distances and/or azimuths/bearings (if referenced). All control points set were referenced in accordance to Indiana Department of Transportation Design Manual for Location Surveys Part III. Other points recovered but not shown, may be close, but were not within the estimated uncertainty nor did they have any impact on the establishment of lines as shown herein. Secondary control points may have been set for the use in locating or validating other evidence when establishing rights of way or apparent property/boundary lines.

**Boundary Lines / Lines of Possession / Right of Way Notes**

Regarding "lines of occupation or possession" in the above section, this term refers to lines which are marked by visible, obvious, well-defined and maintained, man-made or placed objects or limits, such as, but not limited to fences, hedges, mow lines, field-divide lines, woods lines, retaining walls, etc. The uncertainty cited for a line of occupation is general in nature and not intended to be specific for every point along the line. Therefore, portions of the occupation lines may vary from the surveyed lines by distances greater or less than the uncertainty cited in this report or shown on the plat of survey.

The existing right of way lines, parcel ownership lines, and ownership information shown on this plat are preliminary and subject to change based on verification/validation of title. This information is shown only to help orient the user of this plat as it relates to project centerlines and is not intended to establish existing right of way lines or ownership lines. The source used to plot existing right of way lines and ownership lines shown on this plat is from the last/current deeds of record obtained from the appropriate County Recorder's Office or other state agencies when the research was performed, as well as from other sources cited on this plat. Where no record right of way could be found, the edge of pavement shown may possibly act as an easement by prescription. The designer/consultant responsible for Right of Way Engineering is to complete the final determination of this information. It is always presumed that there are rights associated to all areas where right of way monuments or possession exist; however, documentation is not always provided to show the extent of those rights. No title search or encumbrance report was performed for this project.

Any depiction of possible intrusion, trespass, invasion, and/or possible encroachment into the possessions or rights of another is not a matter of this survey. An attorney and/or title company should be consulted in all matters with respect to any rights of possession, matters of title, and all things with respect to any encumbrances if depicted on this survey.

**United States Public Land Survey System (USPLSS) and Monuments Set:**

The recovery of the corners for Section 10, Township 18 North, Range 5 West, are worthy of mention and is discussed as follows:

**Point No. 900:** The computed position is representative of the Northeast corner of the Northwest quarter, of Section 10. This location was searched for but not recovered, this position was calculated from the Falls of the Meahme Subdivision, recorded in the office of the Montgomery Recorders office in Book 213 Page 362 as Instrument Number 332677. This calculated position was used to establish the location of the north line of the northwest quarter as reflected herein. Although the RPA of this point is approximately 0.1 feet, the uncertainty of the true location of this corner is approximately 5 feet in a north / south direction and 5 feet in an east / west direction.

**Point No. 40779:** A magnetic nail found flush with the surface was recovered at the apparent northwest corner of Section 10, also common with the corner representing the southwest corner of Section 3. There are no county reference ties available for this point, however, this monument was held as the apparent corner. Although the RPA of this point is approximately 0.1 feet, the uncertainty of the true location of this corner is approximately 5 feet.

**Point No. 40844:** A strong metallic signal was found at least 6-inches below the surface and was recovered at the apparent northeast corner of Section 10, also a common with the corner representing the southeast corner of Section 3. There are no county reference ties available for this point, however, this location was used as a verification / check of point 900, (the Northeast corner of the Northwest quarter) . Although the RPA of this point is approximately 0.1 feet, the uncertainty of the true location of this corner is approximately 5 feet.

**Additional monuments used for the development / verification of this project:**

Points: 40111, 4000, 40778, and 30133, near the vicinity of the project limits. These monuments are assumed to be marking apparent boundary lines; however, these monuments were not called out in the writings of the deed and were not used as controlling monuments but are represented as evidence.

**Mainline Alignments:**

The Alignments discussed below is created for this specific route survey and were not staked in the field; however, control and section corners mathematically related by coordinate system and units if the regeneration of the alignments is required to be staked at a later date.

**"Line PR-A":** Line PR-A, is a new alignment, and is created based on the existing configuration of the roadway, this created line is based on a mathematical split of the opposing edges of pavement along the location of SR 32. This alignment is being used for design, see equations herein to reflect PR-A with Line "C" (original alignment).

**"Line C":** Line C, is an original alignment developed from existing field conditions and the geometry as reflected on the Plan Set (STP-115). The alignment was developed based on holding the back- tangent as the quarter section line, the fore-tangent and stationing was held as the mathematical split of the existing bridge over Spring Creek. With using this methodology, we created a new station at the center of the bridge and "backed" the stationing in from this point, in addition, this created a revised Delta angle at P.I. Sta- 332+16.20 (see herein LCRS Plat, a new P.I. station based on using this method) of 16 degrees (nearly 2 degrees less) vs 18 degrees, as shown at the original P.I. Station 332+03 "C" on the STP-115 plan set. However, the plan radius on the aforesaid plan set was held for the curve development.

In following the survey section of the INDOT Design Manual, the existing delta of the roadway was held along with the plan degree of curvature. This alignment is intended to be used for right of way engineering if needed.

REPORTED PROJECT POINTS METADATA TABLE											
GRID SYSTEM-ZONE: InGCS - MONTGOMERY											
LINEAR UNITS: U.S. SURVEY FEET											
POINT	NORTHING	EASTING	NORTH LATITUDE	WEST LONGITUDE	STATION	OFFSET	LINE	PURPOSE	MONUMENT TYPE	FOUND/SET/CALC'D (NOT SET)	ABOVE/FLUSH/BELOW GRADE
500	327466.3809	779457.6017	40°01'28.948629"	86°58'42.090774"	10+000.00	0.00'	PR-A	P.O.T. 10+00 LINE "PR-A"	N/A	CALC'D	N/A
501	327467.6475	779557.5937	40°01'28.961459"	86°58'40.805493"	11+00.00	0.00'	PR-A	P.C. 11+00 LINE "PR-A"	N/A	CALC'D	N/A
502	327471.2680	779889.3607	40°01'28.998245"	86°58'36.541008"	14+29.60	23.60' Rt.	PR-A	P.I. 14+29.60 LINE "PR-A"	N/A	CALC'D	N/A
503	327566.8525	780207.0808	40°01'29.943735"	86°58'32.457420"	17+59.20	0.00'	PR-A	P.T. 17+59.20 LINE "PR-A" = 335+60.08 LINE "C"	N/A	CALC'D	N/A
504	327579.3217	780248.6611	40°01'30.067074"	86°58'31.922995"	18+02.60	0.00'	PR-A	P.O.T. 18+02.60 LINE "PR-A" = 0+00.00 LINE "S-1-PRA" = P.O.T. 336+03.49 "C"	N/A	CALC'D	N/A
505	327653.0259	780494.4380	40°01'30.796102"	86°58'28.764052"	20+59.20	0.00'	PR-A	P.O.T. 20+59.20 LINE "PR-A"	N/A	CALC'D	N/A
506	327632.5673	780235.0422	40°01'30.593208"	86°58'32.098248"	0+54.96	0.00'	S-1-PRA	P.C. 00+54.96 LINE "S-1-PRA"	N/A	CALC'D	N/A
507	327656.8408	780228.8337	40°01'30.833061"	86°58'32.178142"	0+79.82	1.92' Lt.	S-1-PRA	P.I. 00+80.01 LINE "S-1-PRA"	N/A	CALC'D	N/A
508	327681.8578	780230.2117	40°01'31.080282"	86°58'32.160521"	1+04.68	0.00'	S-1-PRA	P.T. 1+04.68 LINE "S-1-PRA"	N/A	CALC'D	N/A
509	327781.7064	780235.7119	40°01'32.067001"	86°58'32.090190"	2+04.68	0.00'	S-1-PRA	P.O.T. 2+04.68 LINE "S-1-PRA"	N/A	CALC'D	N/A
510	327467.5683	779591.2928	40°01'28.960780"	86°58'40.372328"	329+33.70	0.00'	C	P.C. 329+33.70 LINE "C"	N/A	CALC'D	N/A
511	327466.9040	779873.7886	40°01'28.955074"	86°58'36.741153"	332+14.16	20.78' Rt.	C	PI. 332+16.19 LINE "C"	N/A	CALC'D	N/A
512	327548.0497	780144.3801	40°01'29.757747"	86°58'33.263301"	334+94.62	0.00'	C	P.T. 334+94.62 LINE "C"	N/A	CALC'D	N/A
513	327650.1716	780484.9201	40°01'30.767867"	86°58'28.886385"	338+50.15	0.00'	C	P.O.T. 338+50.15 LINE "C" = 20+49.26 LINE "PR-A"	N/A	CALC'D	N/A
900	327461.8416	782026.8328	40°01'28.910547"	86°58'09.066130"	N/A	N/A		N. 1/4 CNR, SEC.10, T18N, R9W	N/A	CALC'D	N/A
4000	327512.8346	780221.6885	40°01'29.409972"	86°58'32.269454"	17+57.66	55.94' Rt.	PR-A	SURVEY NETWORK CONTROL POINT	MAG NAIL W/CONTROL TAG	SET	FLUSH
4001	327473.1746	779874.8596	40°01'29.017043"	86°58'36.727411"	14+15.67	19.33' Rt.	PR-A	SURVEY NETWORK CONTROL POINT	5/8" REBAR W/ "CECON CONTROL" CAP	SET	FLUSH
4002	327495.8951	779471.4956	40°01'29.240332"	86°58'41.912304"	10+14.25	29.34' Lt.	PR-A	SURVEY NETWORK CONTROL POINT	5/8" REBAR W/ "CECON CONTROL" CAP	SET	FLUSH
30133	327112.8459	779987.6022	40°01'25.456610"	86°58'35.276853"	14+66.41	392.85' Rt.	PR-A	BOUNDARY EVIDENCE	5/8" REBAR W/ "RRGPELS" CAP	FOUND	FLUSH
40111	327513.6943	780208.2606	40°01'29.418430"	86°58'32.442057"	17+45.31	51.29' Rt.	PR-A	BOUNDARY EVIDENCE	4" METAL POST	FOUND	A.G.
40778	327505.2433	780225.4161	40°01'29.334966"	86°58'32.221511"	17+59.01	64.28' Rt.	PR-A	UNKNOWN	MAG NAIL	FOUND	FLUSH
40779	327467.9150	779443.8354	40°01'28.963746"	86°58'42.267731"	N/A	N/A		N.W. CORNER, SEC.10, T18N, R9W = P.O.T. 327+86.24 LINE "C"	MAG NAIL	FOUND	FLUSH
40844	327464.0367	784673.7374	40°01'28.936484"	86°57'35.043099"	N/A	N/A		N.E. CORNER, SEC.10, T18N, R9W	HOLE W/ METAL TONE	FOUND	6" B.G.

**FIELD SURVEYOR STATEMENT**

THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF TITLE 865 I.A.C. 1-12-20 THROUGH 1-12-25 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.



PREPARED BY

*Grant R. Niemeyer*  
PROFESSIONAL SURVEYOR 11-17-2021

DRAWN: WH

CHECKED: GRN

INDIANA DEPARTMENT OF TRANSPORTATION  
LOCATION CONTROL ROUTE SURVEY  
S.R. 32 MONTGOMERY COUNTY

SCALE	BRIDGE FILE
N/A	N/A
COUNTY	DESIGNATION
MONTGOMERY	1800075
SURVEY BOOK	SHEETS
N/A	7 of 40
CONTRACT	PROJECT
N/A	19-014(CECon)

**S-line Alignments:**

**Line "S-1-PRA":** A newly developed line based on a mathematical split of the opposing edges of pavement along County Road 400 West, extended southerly to Line PR-A.

**Apparent Right way development:**

The existing right of way lines based on the right of way grants for Project S-115 (1) are labeled hereon where relevant. The edge of the traveled way along SR 32. In addition, there was a conveyance along CR 400 W. to Montgomery County which is reflected herein.

**Easements and Regulated Drainage Note**

All county maintained regulated drains (open or otherwise) have an easement associated with said drain, determined only by the County Drainage Board and/or County Surveyor, unless otherwise dedicated, recorded, and/or accepted by statute.

Locations of any easements shown are based on the last/current deeds of record obtained from the appropriate County Recorder's Office when the research was performed, as well as from other sources cited on this plat, and should infer that all possible easements have been recovered as a result of an exhaustive title search.

**Certificate of Survey:**

This survey, to the best of my knowledge and belief, is executed per the provision of Title 865 I.A.C. 1-12-20 through 1-12-25 regarding route surveys, except that any data shown regarding the location or description of the existing parcels is not a part of this survey. Data and information were collected from June 12th, 2019 through June 21st, 2019. The data collected was gathered using electronic total stations applying standard radial surveying techniques and by global positioning equipment, utilizing the INDOT Continuously Operating Reference Station (INCORS).

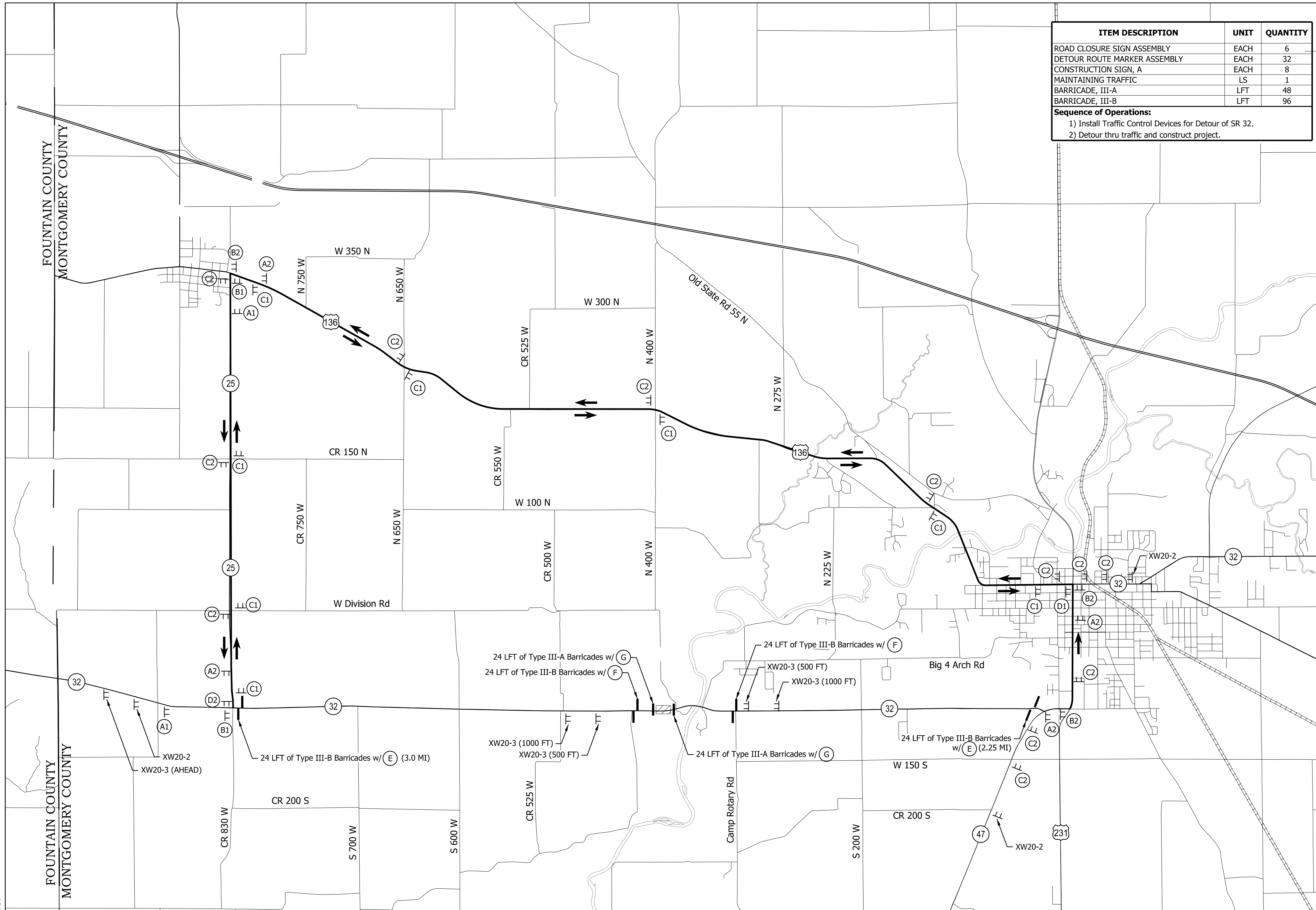
The Relative Positional Accuracy (due to random errors in measurement) of the corners and monuments found and set established during this survey is within the specification for an Urban Survey (+/- 0.07 feet + 50 parts per million) as defined in I.A.C. 865.

**Redact Statement:**

I affirm, under the penalties of perjury, that I have taken reasonable care to redact each Social Security Number in this document, unless required by law. By Grant R. Niemeyer



PATH AND FILENAME: V:\Projects\ANY\K5\36243\CADD\MSTN\1800075\Sheet Drawings\1800075\_Sht MOT Detour.dgn  
 MODEL NAME: Sheet  
 DATE PLOTTED: 6/22/2023  
 TIME PLOTTED: 9:44:31 AM



ITEM DESCRIPTION	UNIT	QUANTITY
ROAD CLOSURE SIGN ASSEMBLY	EACH	6
DETOUR ROUTE MARKER ASSEMBLY	EACH	32
CONSTRUCTION SIGN, A	EACH	8
MAINTAINING TRAFFIC	LS	1
BARRICADE, III-A	LFT	48
BARRICADE, III-B	LFT	96

**Sequence of Operations:**  
 1) Install Traffic Control Devices for Detour of SR 32.  
 2) Detour thru traffic and construct project.

**LEGEND**

- Directional Traffic Lane Indication Arrow
- Work Area
- Construction Sign and Supports
- Barricade Type-III-A or III-B As Required

**Sign Assemblies:**

- A1:** XM4-8 DETOUR EAST, M3-1 INDIANA 32, M1-5 INDIANA 32, M5-1 (L or R)
- A2:** XM4-8 DETOUR WEST, M3-3 INDIANA 32, M1-5 INDIANA 32, M5-1 (L or R)
- B1:** XM4-8 DETOUR EAST, M3-1 INDIANA 32, M1-5 INDIANA 32, M6-1 (L or R)
- B2:** XM4-8 DETOUR WEST, M3-3 INDIANA 32, M1-5 INDIANA 32, M6-1 (L or R)
- C1:** XM4-8 DETOUR EAST, M3-1 INDIANA 32, M1-5 INDIANA 32, M6-3
- C2:** XM4-8 DETOUR WEST, M3-3 INDIANA 32, M1-5 INDIANA 32, M6-3
- D1:** XM4-8a END DETOUR EAST, M3-1 INDIANA 32, M1-5 INDIANA 32, M6-1 (L or R)
- D2:** XM4-8a END DETOUR WEST, M3-3 INDIANA 32, M1-5 INDIANA 32, M6-1 (L or R)
- E:** R11-3 ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY, XM4-10 (L or R) DETOUR
- F:** R11-4 ROAD CLOSED TO THRU TRAFFIC
- G:** R11-2 ROAD CLOSED

**Signs:**

- XW20-2 48"x48" DETOUR AHEAD
- XW20-3 48"x48" ROAD CLOSED XXXXX

**DETOUR NOTES:**  
 1. All construction Sign locations are shown at approximate spacings.

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JSS	DRAWN: AED	
CHECKED: DRD	CHECKED: BTH	

INDIANA DEPARTMENT OF TRANSPORTATION

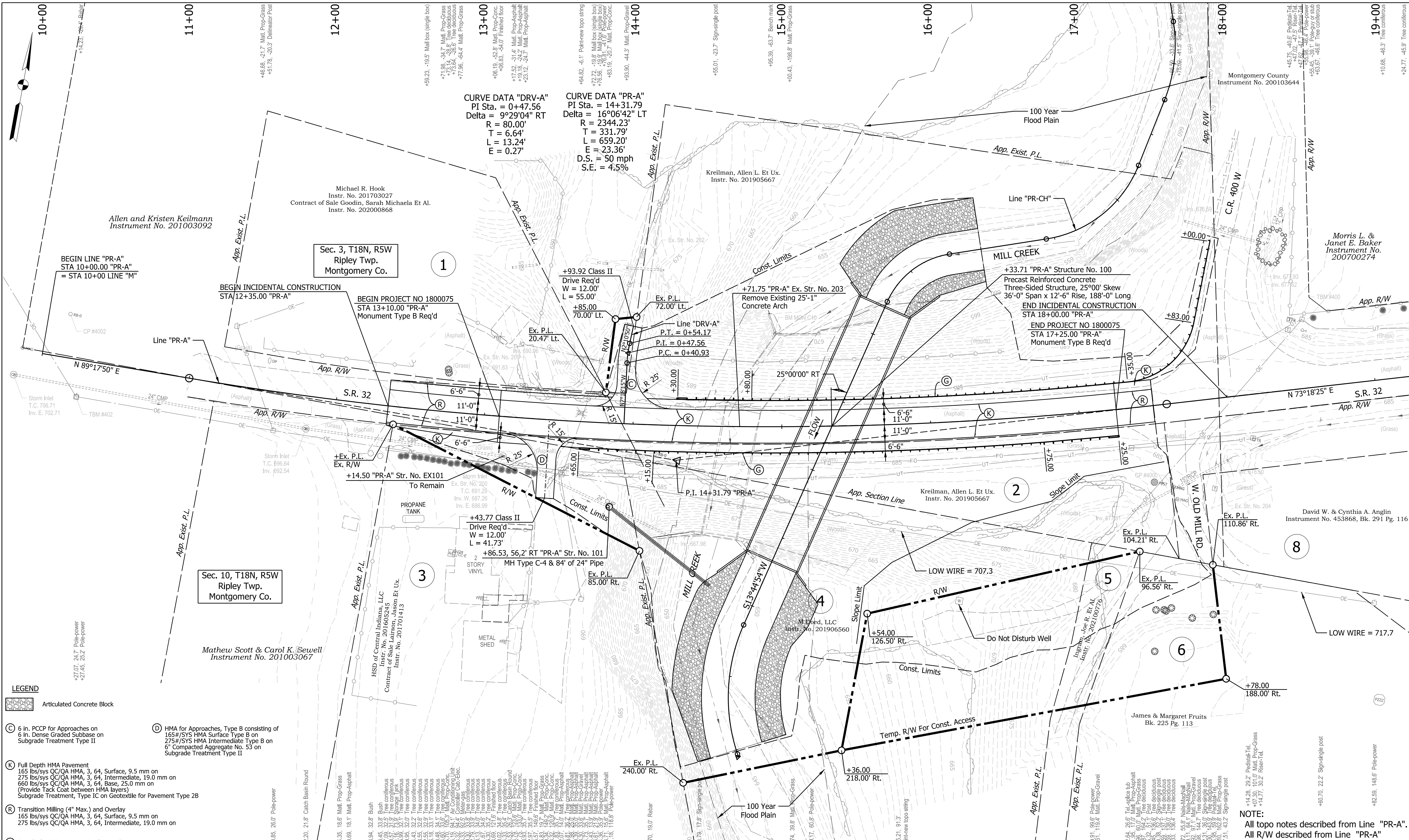
MAINTENANCE OF TRAFFIC DETOUR

HORIZONTAL SCALE	BRIDGE FILE
1" = 2500'	032-54-10370
VERTICAL SCALE	DESIGNATION
	1800075
SURVEY BOOK	SHEETS
N/A	8 of 40
CONTRACT	PROJECT
B-43793	1800075

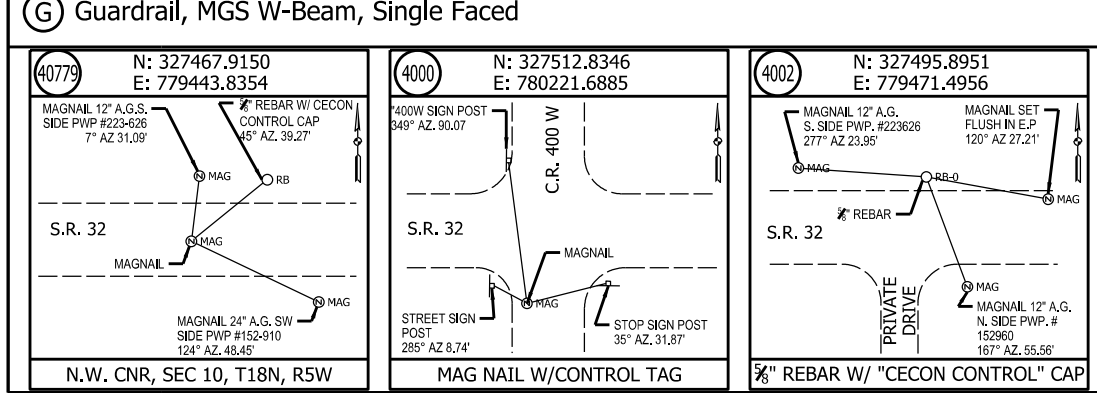


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MODEL NAME: Sheet  
DATE PLOTTED: 6/22/2023  
TIME PLOTTED: 9:44:32 AM



- LEGEND**
- Articulated Concrete Block
  - (C)** 6 in. PCCP for Approaches on 6 in. Dense Graded Subbase on Subgrade Treatment Type II
  - (K)** Full Depth HMA Pavement  
165 lbs/sys CC/QA HMA, 3, 64 Surface, 9.5 mm on 275 lbs/sys CC/QA HMA, 3, 64 Intermediate, 19.0 mm on 660 lbs/sys CC/QA HMA, 3, 64 Base, 25.0 mm on (Provide Tack Coat between HMA layers)  
Subgrade Treatment, Type IC on Geotextile for Pavement Type 2B
  - (R)** Transition Milling (4" Max.) and Overlay  
165 lbs/sys CC/QA HMA, 3, 64, Surface, 9.5 mm on 275 lbs/sys CC/QA HMA, 3, 64, Intermediate, 19.0 mm on
  - (G)** Guardrail, MGS W-Beam, Single Faced
  - (D)** HMA for Approaches, Type B consisting of 165#/SYS HMA Surface Type B on 275#/SYS HMA Intermediate Type B on 6" Compacted Aggregate No. 53 on Subgrade Treatment Type II



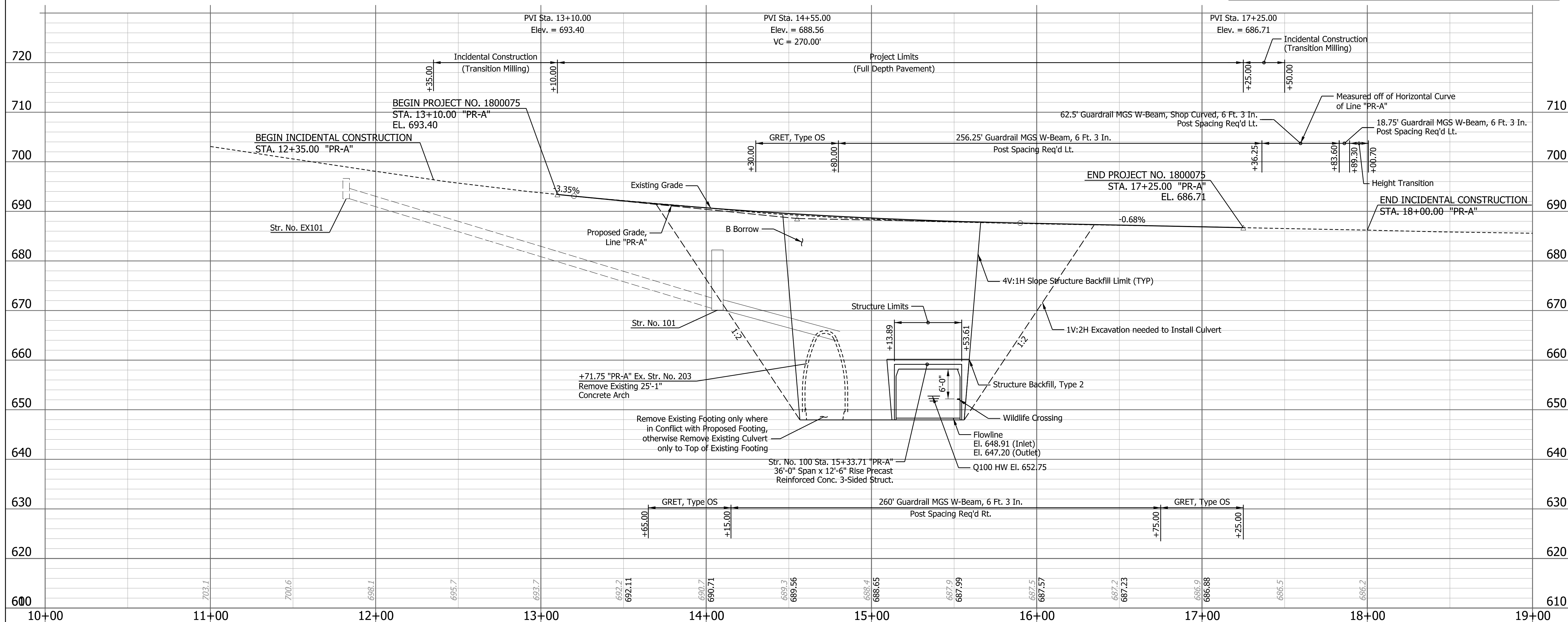
RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: JSS		DRAWN: AED		CHECKED: DRD	
CHECKED: DRD		CHECKED: BTH			

<b>INDIANA DEPARTMENT OF TRANSPORTATION</b>	
HORIZONTAL SCALE 1" = 30'	BRIDGE FILE 032-54-10370
VERTICAL SCALE 1" = 10'	DESIGNATION 1800075
SURVEY BOOK N/A	SHEETS 9 of 40
CONTRACT B-43793	PROJECT 1800075

**NOTE:**  
All topo notes described from Line "PR-A".  
All R/W described from Line "PR-A"

TBM 400	PMag nail set in North face of power pole #153621, 1.0' above grade, approximately 50 feet North of the centerline of SR 32, and approximately 50 feet East of the centerline of CR 400W Elev. 687.915
TBM 401	PMag nail set in North face of power pole #152947, 1.0' above grade, approximately 60 feet South of the centerline of SR 32, and approximately 100 feet Southeast of a speed limit sign (50 mph) Elev. 682.458
TBM 402	PMag nail set in North face of power pole #152960, 1.0' above grade, approximately 25 feet South of the centerline of SR 32, and approximately 50 feet Southeast of power pole # 223626 Elev. 708.118



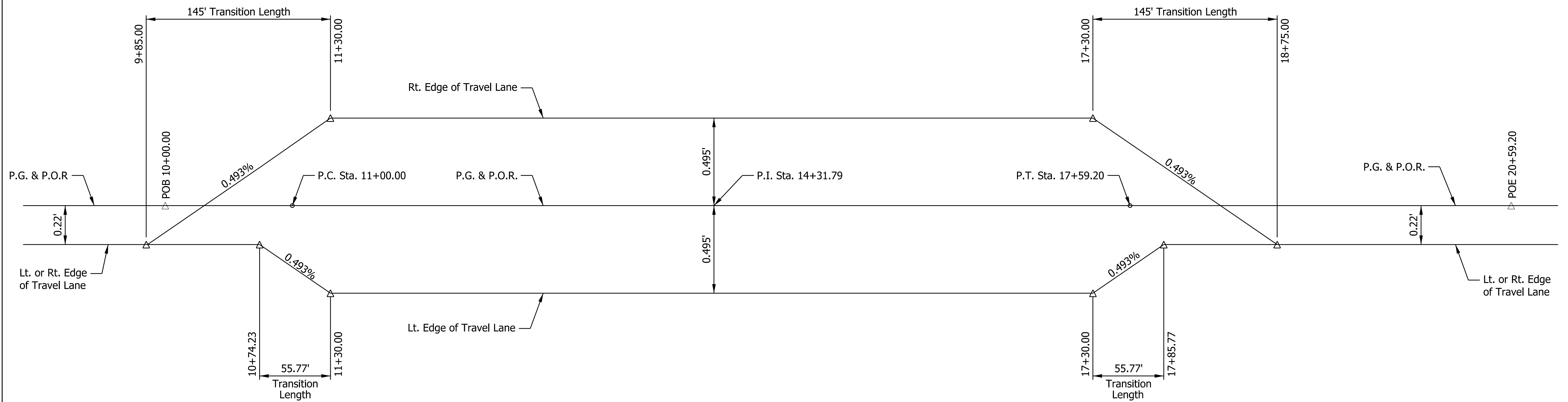
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 TIME PLOTTED: 9:44:34 AM

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JSS	DRAWN: AED	
CHECKED: DRD	CHECKED: BTH	

**INDIANA DEPARTMENT OF TRANSPORTATION**  
  
**PROFILE "PR-A"/Layout**

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	032-54-10370
VERTICAL SCALE	DESIGNATION
1" = 10'	1800075
SURVEY BOOK	SHEETS
N/A	10 of 40
CONTRACT	PROJECT
B-43793	1800075

CURVE DATA "PR-A"  
 PI Sta. = 14+31.79  
 Delta = 16°06'42" LT  
 R = 2344.23'  
 T = 331.79'  
 L = 659.20'  
 E = 23.36'  
 D.S. = 50 mph  
 S.E. = 4.5%



**SUPERELEVATION DIAGRAM**

NO SCALE

**Notes:**

Δ = All Vertical Curves Shall be 60' Unless Otherwise Noted  
 P.G. = Profile Grade  
 P.O.R. = Point of Rotation

**The High-Side Shoulder shall be sloped as follows:**

- If  $e\% \leq 4\%$ , use 4% (it's normal cross slope)
- If  $4\% < e\% \leq 6\%$ , use 2% down away from the travelway.
- If  $e\% > 6\%$ , use 1% towards the travelway.
- If the shoulder width is 4' or less, it should be sloped in the same plane as the traveled way.

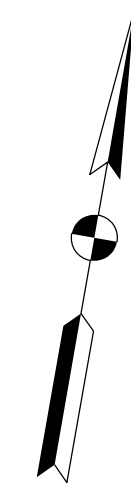
**The Low-Side Shoulder shall be sloped as follows:**

- The normal shoulder slope should be retained until the adjacent superelevated travel lane reaches that slope.
- The shoulder is then Superelevated concurrently with the Travel Lane until the Design Superelevation is reached.

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 MODEL NAME: Sheet  
 DATE PLOTTED: 6/22/2023  
 TIME PLOTTED: 9:44:35 AM

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE	BRIDGE FILE
			VERTICAL SCALE	DESIGNATION
DESIGNED: JSS	DRAWN: AED	SURVEY BOOK		SHEETS
CHECKED: DRD	CHECKED: BTH	N/A	11 of 40	
		CONTRACT		PROJECT
		B-43793		1800075





TEMPORARY EROSION CONTROL TABLE								
STATION	LOCATION		FILTER SOCK	MANUFACTURED SURFACE PROTECTION PRODUCT, STRAW BLANKET	COARSE AGGREGATE #5 STONE	TEMPORARY GEOTEXTILE	RIPRAP DITCH CHECK	REMARKS
	LEFT	RIGHT						
Line "PR-A"								
12+50 TO 14+40		X	270.0					
14+95 TO 17+50		X	300.0					
13+25 TO 13+60	X		60.0					
14+25 TO 15+70	X		190.0					
16+40 TO 17+40	X		142.0					
North Area	X			1735.0				
South Area		X		2015.0				
<b>TOTAL</b>			<b>962.0</b>	<b>3750.0</b>				

PATH AND FILENAME: \\cra-llp.com\proj\Projects\ANY\536243\CADD\MSTN\1800075\Sheet Drawings\1800075\_Sht Erosion.dgn  
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 TIME PLOTTED: 9:44:37 AM

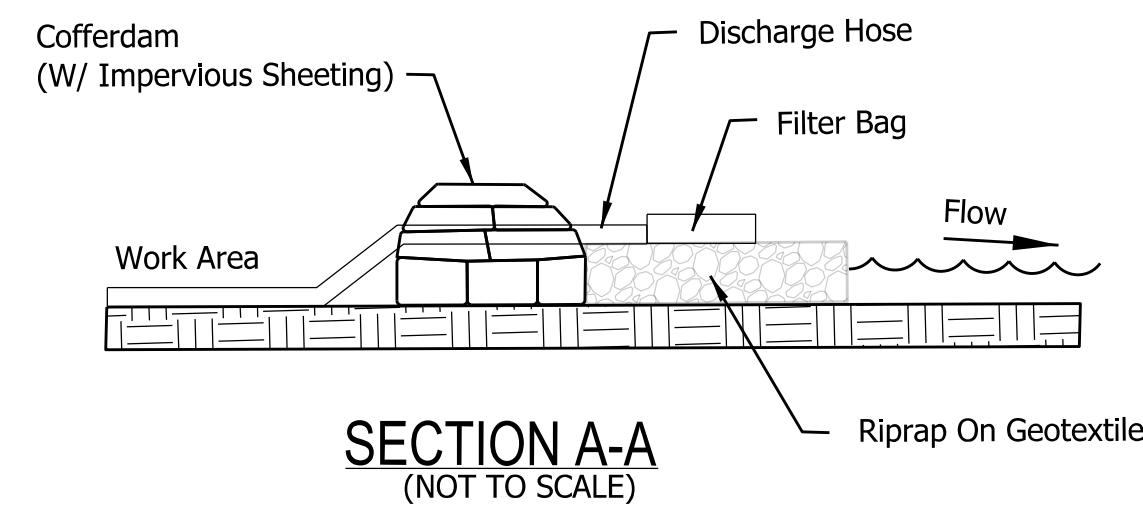
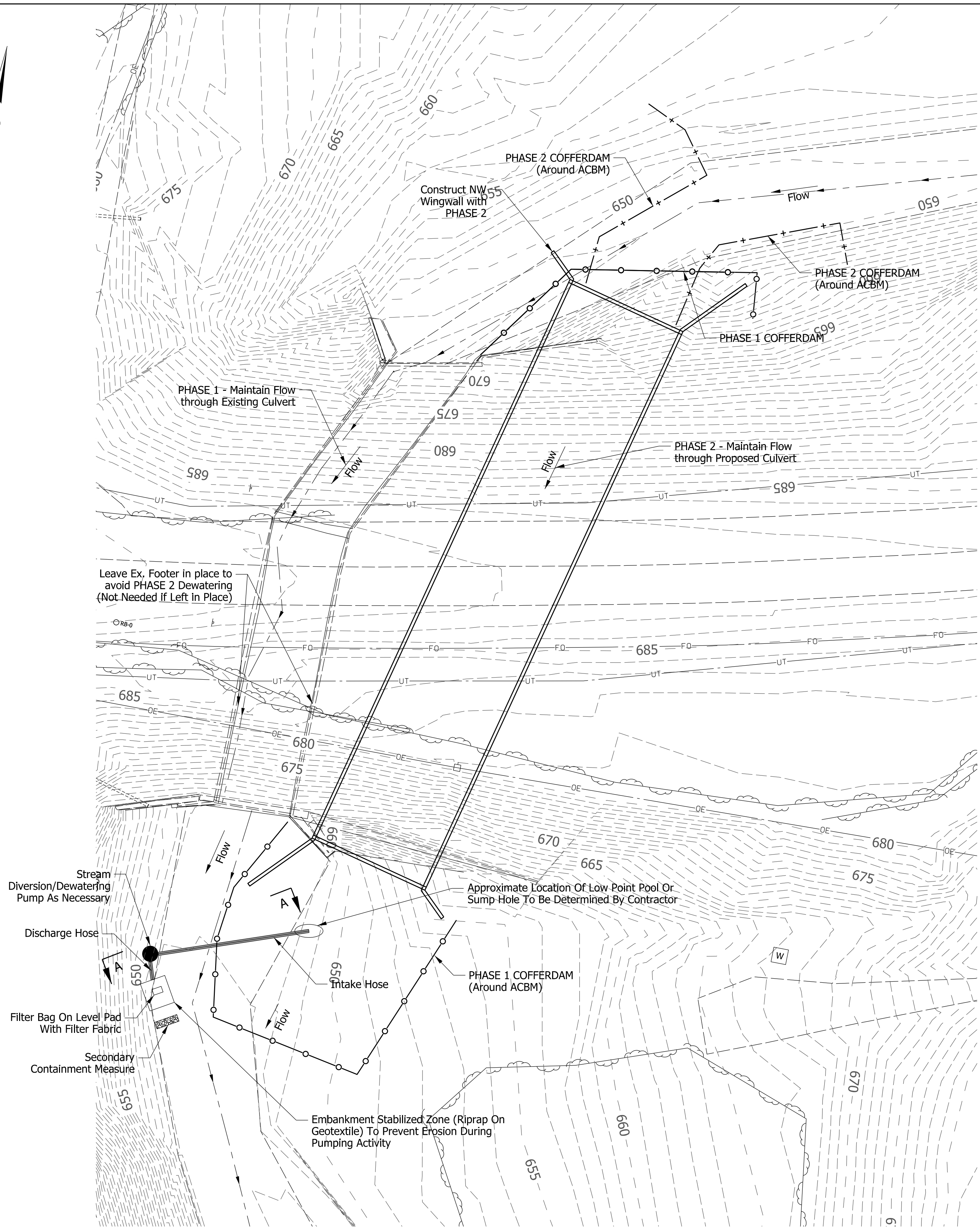
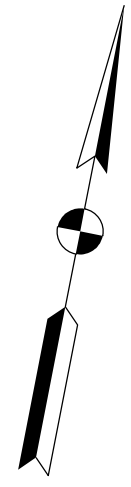
EROSION CONTROL LEGEND	
	Perimeter Protection - Filter Sock
	Articulated Concrete Block
	Manufactured Surface Protection Product, Straw Blanket
	Tree Line/Area in Floodway

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWK	DRAWN: VAS	
CHECKED: DRD	CHECKED: JWK	

INDIANA DEPARTMENT OF TRANSPORTATION	
<b>TEMPORARY EROSION CONTROL DETAIL</b>	

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	032-54-10370
VERTICAL SCALE	DESIGNATION
1" = 5'	1800075
SURVEY BOOK	SHEETS
N/A	12 of 40
CONTRACT	PROJECT
B-43793	1800075





- Dewatering Sequence:
1. Prior To Any Culvert Work, The Contractor Shall Place A Temporary Cofferdam Of Sand Bags, Riprap Or Other Suitable Material Upstream Of The Culvert. The Cofferdam Material Shall Provide An Impervious Barrier To Prevent Stream Flow From Entering The Culvert Work Area.
  2. The Contractor Shall Additionally Place A Downstream Cofferdam As Indicated In The Detail On This Drawing. The Downstream Cofferdam Will Prevent Any Groundwater From Within The Culvert Replacement Work Area From Entering The Downstream Flow Area. A Dewatering Pump Shall Be Utilized With A Filter Bag As Shown.

Staged Erosion Control for Channeling River  
 PHASE 1 - Cofferdam Placed and Dewatering for Excavation and New Structure Installation.  
 PHASE 2 - Movement of Cofferdam to Direct Water through New Structure for Removal of Existing Structure.  
 Leave Ex. Footer in place to Avoid Dewatering in PHASE 2.  
 Dewatering will not be needed once Backfill is in place.

PATH AND FILENAME: \\cra-llp.com\proj\Projects\ANY\536243\CADD\MSTN\1800075\Sheet Drawings\1800075\_Sht Stream Diversion.dgn  
 MODEL NAME: Default  
 DATE PLOTTED: 6/22/2023  
 TIME PLOTTED: 9:44:38 AM

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
DESIGNED: VAS _____	DRAWN: VAS _____		
CHECKED: DRD _____	CHECKED: DRD _____		

**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**

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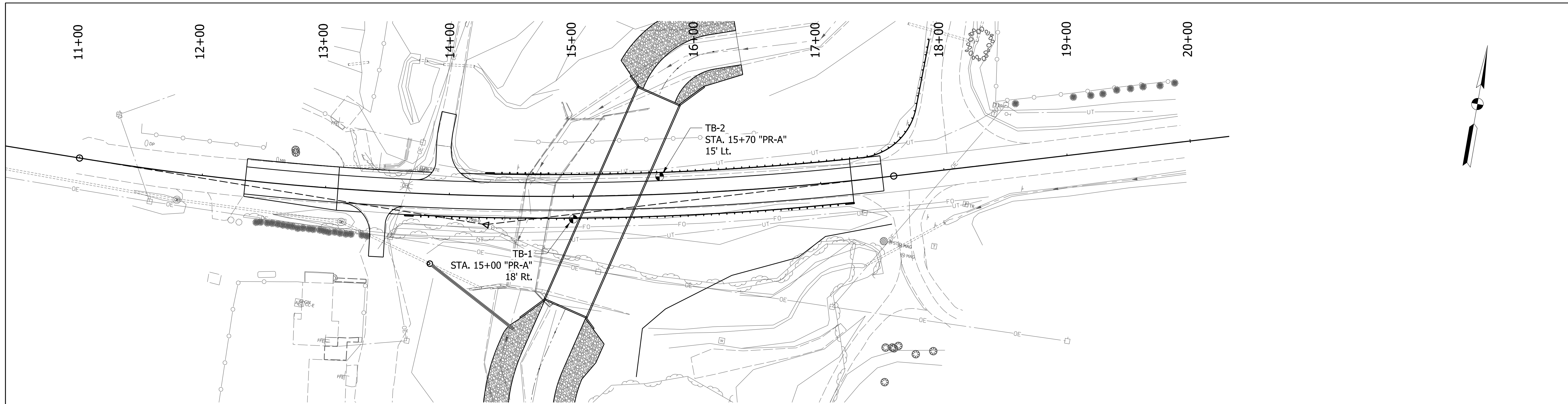
**STREAM DIVERSION AND DEWATERING**

HORIZONTAL SCALE	BRIDGE FILE
NTS	032-54-10370
VERTICAL SCALE	DESIGNATION
NTS	1800075
SURVEY BOOK	SHEETS
N/A	13 of 40
CONTRACT	PROJECT
B-43793	1800075









INDOT BORING LOG											
ROUTE # : SR 32		COUNTY : Montgomery		BORING NO. : TB-1		SHEET : 1 OF 2		LATITUDE : 40.024767		LONGITUDE : -86.97661	
PROJECT TYPE : Small Structure Replacement				DATE STARTED : 11-30-21				DATE COMPLETED : 11-30-21			
LOCATION : SR 32 over Mill Creek, 3.70 miles west of SR 47				DES NO. : 1800075				PROJECT NO. :			
ELEVATION : 688.5		BORING METHOD : HSA		HAMMER : Auto		STATION : 15+00		RIG TYPE : Truck		HAMMER EFF(%) :	
OFFSET : 18.0 ft Right		CASING DIA. : 8 in		HAM. CALIB DATE :		LINE : 'PR-A'		CORE SIZE :		TEMPERATURE : 50 °F	
DEPTH : 53.6 ft		DRILLER/INSP : DTLB		WEATHER : Clear		GROUNDWATER : Encountered at DRY		At completion DRY		Caved in at 43.0 ft	
STRATUM ELEVATION	SAMPLE DEPTH	SOIL/MATERIAL DESCRIPTION	SAMPLE NUMBER	RECOVERY	MOISTURE	UNCONF. COMP	DENSITY	ATTERBERG LIMITS	REMARKS		
687.5	1.0	Loam	SS1	100	17.6						
2.5			SS2	100							
5.0			SS3	100							
7.5			SS4	100							
10.0			SS5	100							
12.5		Loam A-4 (0) Brown, Moist, Medium Dense To Loose, (Test TB-1 SS-6).	SS6	100							
15.0			SS7	100							
17.5			SS8	100	13.6			NP	NP	NP	
20.0			SS9	100							
22.5			SS10	100							
25.0			SS11	100							
27.5		Clay Loam Brown, Moist, Soft, (Visual).	SS12	100							
30.0			SS13	100							

INDOT BORING LOG											
ROUTE # : SR 32		COUNTY : Montgomery		BORING NO. : TB-1		SHEET : 2 OF 2		LATITUDE : 40.024767		LONGITUDE : -86.97661	
PROJECT TYPE : Small Structure Replacement				DATE STARTED : 11-30-21				DATE COMPLETED : 11-30-21			
LOCATION : SR 32 over Mill Creek, 3.70 miles west of SR 47				DES NO. : 1800075				PROJECT NO. :			
ELEVATION : 688.5		BORING METHOD : HSA		HAMMER : Auto		STATION : 15+00		RIG TYPE : Truck		HAMMER EFF(%) :	
OFFSET : 18.0 ft Right		CASING DIA. : 8 in		HAM. CALIB DATE :		LINE : 'PR-A'		CORE SIZE :		TEMPERATURE : 50 °F	
DEPTH : 53.6 ft		DRILLER/INSP : DTLB		WEATHER : Clear		GROUNDWATER : Encountered at DRY		At completion DRY		Caved in at 43.0 ft	
STRATUM ELEVATION	SAMPLE DEPTH	SOIL/MATERIAL DESCRIPTION	SAMPLE NUMBER	RECOVERY	MOISTURE	UNCONF. COMP	DENSITY	ATTERBERG LIMITS	REMARKS		
32.5		Clay Loam Brown, Moist, Soft, (Visual).	SS14	100							
35.0			SS15	100							
37.5		Loam A-4 Brown, Moist, Loose, (Test TB-1 SS-6).	SS16	50/1	10						
40.0			SS17	100							
42.5			SS18	100							
45.0		Shale Gray, Decomposed, Soft.	SS19	50/1	10						
47.5			SS20	100							
50.0			SS21	100							
52.5			SS22	100							
55.0		Bottom of Boring at 53.6 ft	SS23	50/1	10						

INDOT BORING LOG											
ROUTE # : SR 32		COUNTY : Montgomery		BORING NO. : TB-2		SHEET : 1 OF 2		LATITUDE : 40.02489		LONGITUDE : -86.976396	
PROJECT TYPE : Small Structure Replacement				DATE STARTED : 11-30-21				DATE COMPLETED : 11-30-21			
LOCATION : SR 32 over Mill Creek, 3.70 miles west of SR 47				DES NO. : 1800075				PROJECT NO. :			
ELEVATION : 688.0		BORING METHOD : HSA		HAMMER : Auto		STATION : 15+70		RIG TYPE : Truck		HAMMER EFF(%) :	
OFFSET : 15.0 ft Left		CASING DIA. : 8 in		HAM. CALIB DATE :		LINE : 'PR-A'		CORE SIZE :		TEMPERATURE : 50 °F	
DEPTH : 53.6 ft		DRILLER/INSP : DTLB		WEATHER : Clear		GROUNDWATER : Encountered at DRY		At completion DRY		Caved in at 24.0 ft	
STRATUM ELEVATION	SAMPLE DEPTH	SOIL/MATERIAL DESCRIPTION	SAMPLE NUMBER	RECOVERY	MOISTURE	UNCONF. COMP	DENSITY	ATTERBERG LIMITS	REMARKS		
687.0	1.0	Loam with some Gravel.	SS1	100	15.5						
2.5			SS2	100							
5.0			SS3	100							
7.5			SS4	100							
10.0			SS5	100							
12.5			SS6	100							
15.0		Loam A-4 Brown, Moist, Loose To Medium Dense, (Test TB-1 SS-6).	SS7	100							
17.5			SS8	100							
20.0			SS9	100							
22.5			SS10	100							
25.0			SS11	100							
27.5			SS12	100							
30.0			SS13	100							

INDOT BORING LOG											
ROUTE # : SR 32		COUNTY : Montgomery		BORING NO. : TB-2		SHEET : 2 OF 2		LATITUDE : 40.02489		LONGITUDE : -86.976396	
PROJECT TYPE : Small Structure Replacement				DATE STARTED : 11-30-21				DATE COMPLETED : 11-30-21			
LOCATION : SR 32 over Mill Creek, 3.70 miles west of SR 47				DES NO. : 1800075				PROJECT NO. :			
ELEVATION : 688.0		BORING METHOD : HSA		HAMMER : Auto		STATION : 15+70		RIG TYPE : Truck		HAMMER EFF(%) :	
OFFSET : 15.0 ft Left		CASING DIA. : 8 in		HAM. CALIB DATE :		LINE : 'PR-A'		CORE SIZE :		TEMPERATURE : 50 °F	
DEPTH : 53.6 ft		DRILLER/INSP : DTLB		WEATHER : Clear		GROUNDWATER : Encountered at DRY		At completion DRY		Caved in at 24.0 ft	
STRATUM ELEVATION	SAMPLE DEPTH	SOIL/MATERIAL DESCRIPTION	SAMPLE NUMBER	RECOVERY	MOISTURE	UNCONF. COMP	DENSITY	ATTERBERG LIMITS	REMARKS		
32.5		Loam A-4 Brown, Moist, Loose To Medium Dense, (Test TB-1 SS-6).	SS14	50/1	25						
35.0		Limestone Gray, Hard, (Floater).	SS15	4	80						
37.5			SS16	50/1	10						
40.0			SS17	50/1	10						
42.5			SS18	50/1	10						
45.0		Shale Gray, Decomposed, Soft.	SS19	50/1	10						
47.5			SS20	50/1	10						
50.0			SS21	50/1	10						
52.5			SS22	50/1	10						
55.0		Bottom of Boring at 53.6 ft	SS23	50/1	10						

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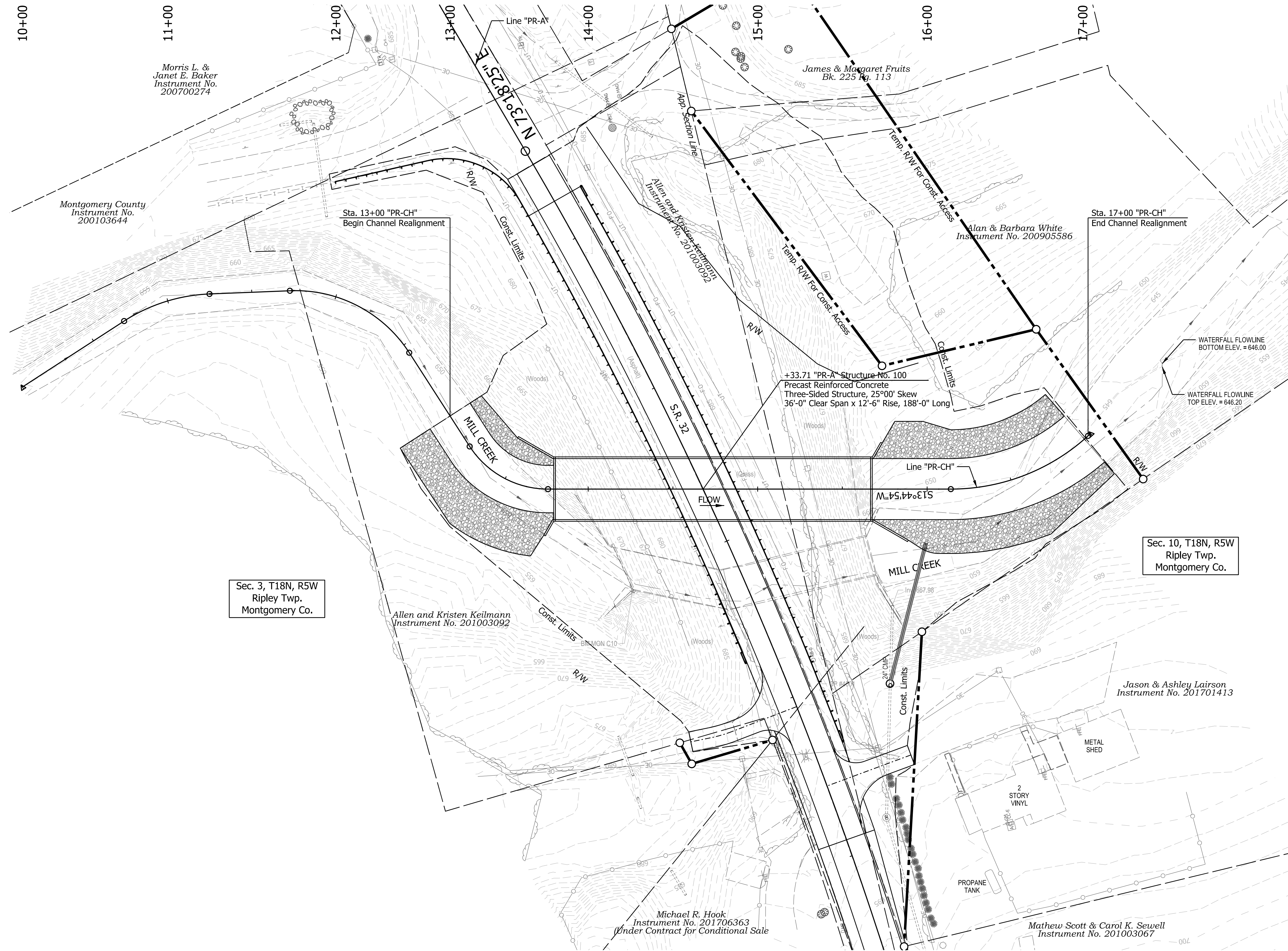
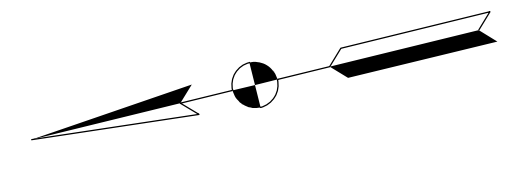
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DESIGNED: JWK	DRAWN: VAS	
CHECKED: DRD	CHECKED: JWK	

**INDIANA DEPARTMENT OF TRANSPORTATION**  
**SOIL BORING LOCATION MAP**

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	032-54-10370
VERTICAL SCALE	DESIGNATION
1" = 5'	1800075
SURVEY BOOK	SHEETS
N/A	15 of 40
CONTRACT	PROJECT
B-43793	1800075



10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00



**EXISTING STRUCTURE**

The existing structure is a concrete arch culvert built in 1920 and reconstructed in 1946. The culvert is 150' long, 25.0' wide span and 12.5' high. The total bridge length on top of the built structure is 33.0'± with a skew of 25 degrees and a clear roadway of 33'-0". Existing Structure to be removed and replaced.

**HYDRAULIC DATA**

Drainage Area =	8.2	SQ MILES
Q 100 Discharge =	3,090	CFS
Q 100 Elevation =	652.75	FT
Q 100 Backwater =	5.9	FT
Q 100 Velocity =	15.9	FT / SEC
Waterway Opening Required Below Q100 =	138.3	SFT
Waterway Opening Provided Below Q100 =	199.20	SFT
Minimum Low Structure Elevation =	657.7	FT
Skew to Waterway =	0	DEGREES

**UTILITIES**

See Index & General Notes Sheet

**EARTHWORK TABULATION**

Line "PR-A":		
Fill +25%	1,498	CYS
Common Excavation	1,750	CYS
Benching (Estimated)	0	CYS
Line "PR-CH":		
Fill +25%	488	CYS
Common Excavation	16,143	CYS
Structure Backfill, Type 2	709	CYS
B Borrow	13,916	CYS

Sec. 10, T18N, R5W  
Ripley Twp.  
Montgomery Co.

Sec. 3, T18N, R5W  
Ripley Twp.  
Montgomery Co.

**PRECAST REINFORCED CONCRETE  
THREE-SIDED STRUCTURE  
36'-0" SPAN x 12'-6" RISE x 188'-0" LONG  
SKEW: 25°00'00" RT.  
SR 32 OVER MILL CREEK  
MONTGOMERY COUNTY**

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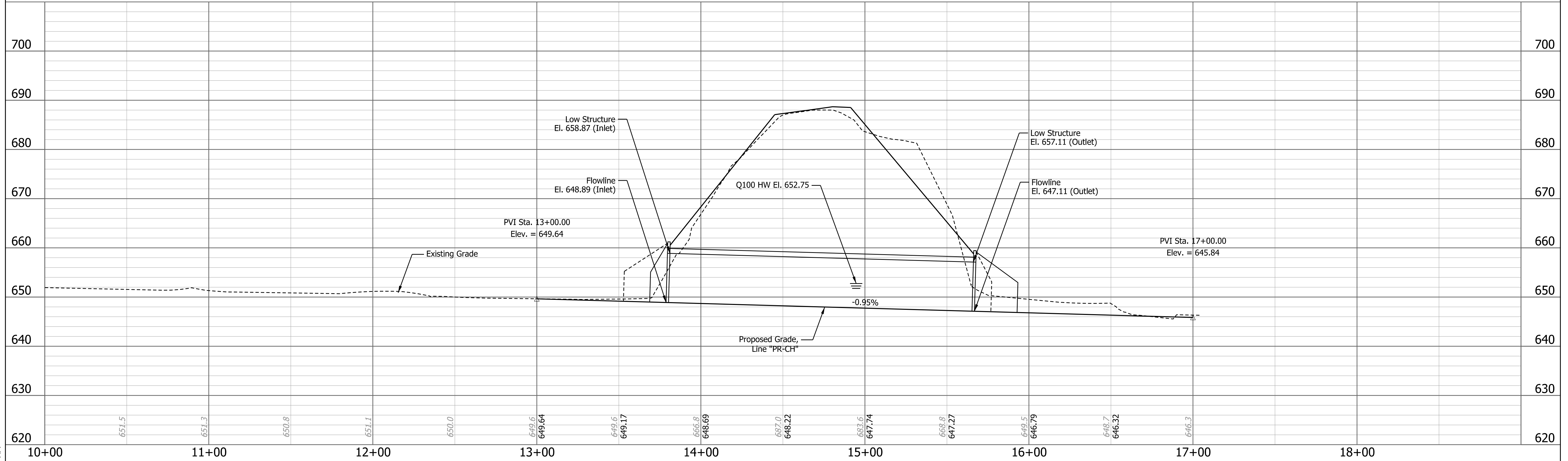
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DESIGNED: JSS	DRAWN: AED	
CHECKED: DRD	CHECKED: BTH	

**INDIANA  
DEPARTMENT OF TRANSPORTATION**

**CHANNEL CHANGE LAYOUT - PLAN**

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	032-54-10370
VERTICAL SCALE	DESIGNATION
1" = 30'	1800075
SURVEY BOOK	SHEETS
N/A	16 of 40
CONTRACT	PROJECT
B-43793	1800075

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 TIME PLOTTED: 9:44:46 AM  
 MODEL NAME: Sheet  
 DATE PLOTTED: 6/22/2023  
 TIME PLOTTED: 9:44:46 AM



RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
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CHECKED: DRD	CHECKED: BTH		

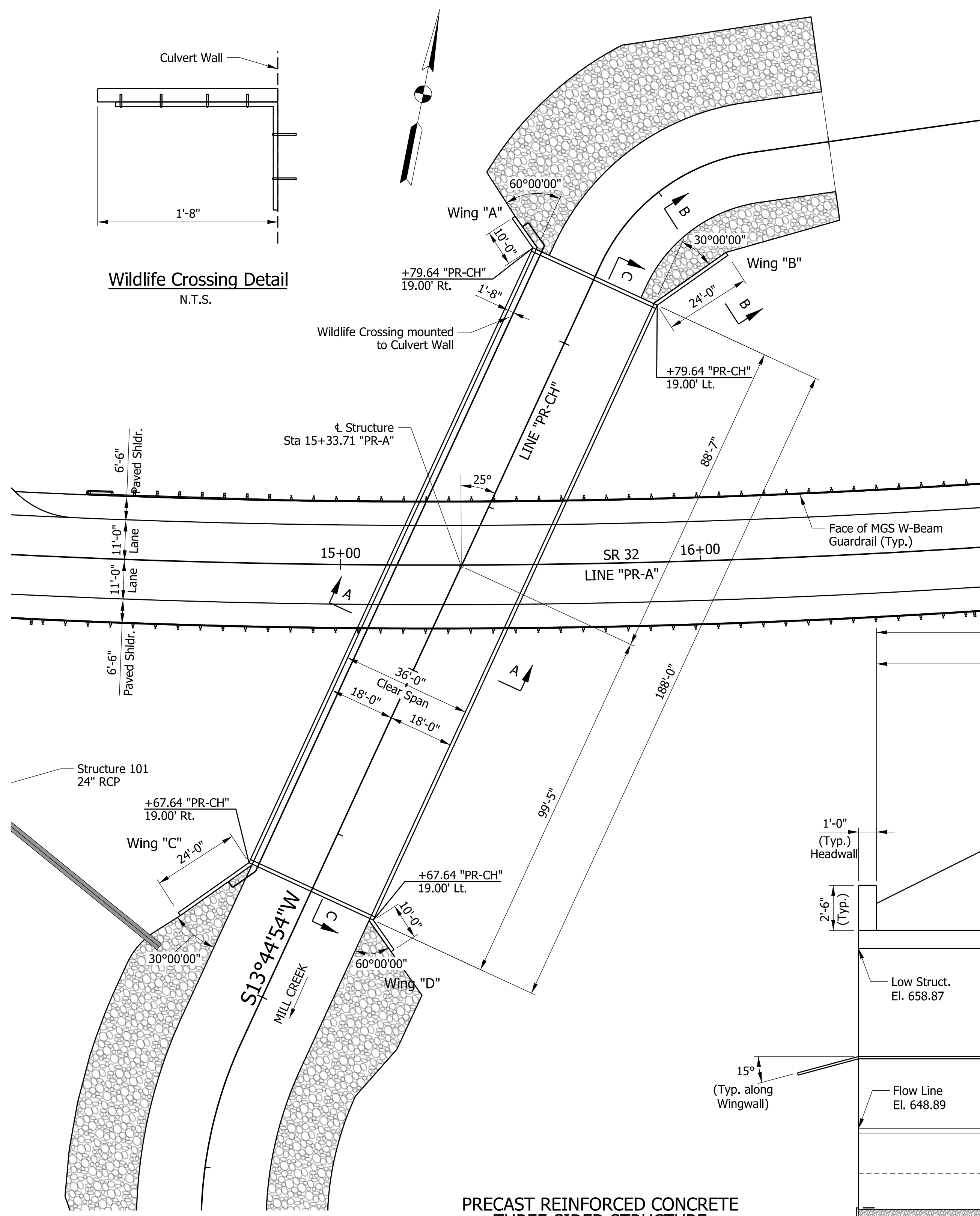
**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**

**CHANNEL CHANGE LAYOUT - PROFILE**

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	032-54-10370
VERTICAL SCALE	DESIGNATION
1" = 30'	1800075
SURVEY BOOK	SHEETS
N/A	17 of 40
CONTRACT	PROJECT
B-43793	1800075

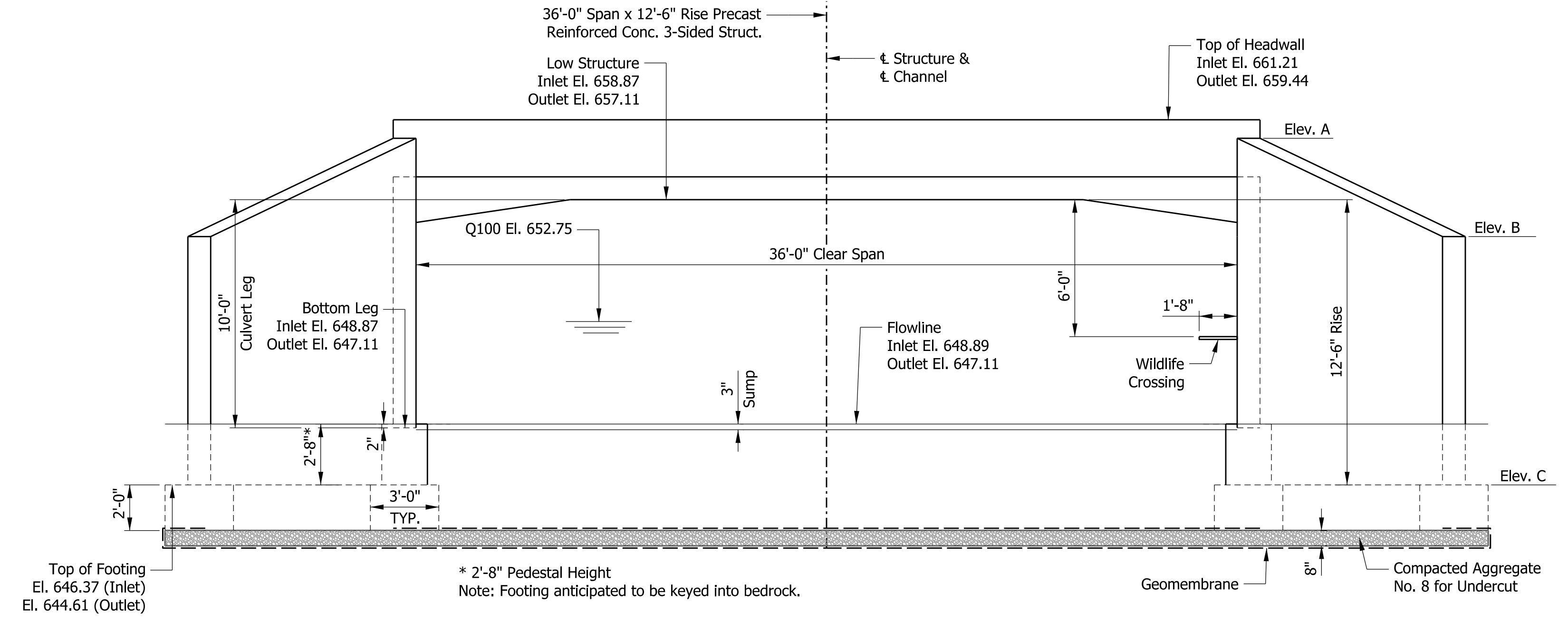


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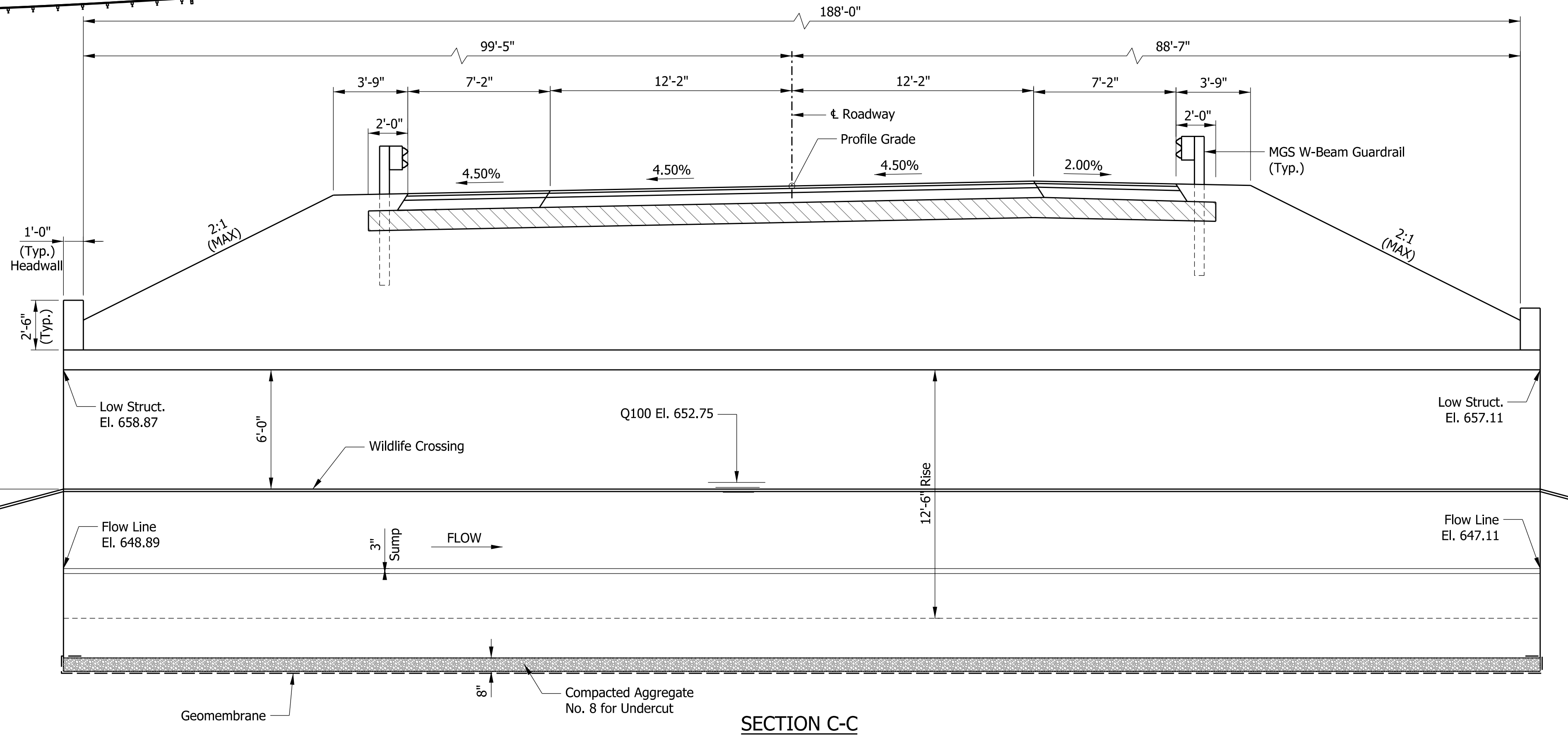


**PLAN**  
 Scale: 1" = 20'-0"

**PRECAST REINFORCED CONCRETE  
 THREE-SIDED STRUCTURE**  
 36'-0" CLEAR SPAN x 12'-6" RISE x 188'-0" LONG  
 SKEW: 25°00'00" RT  
 S.R. 32 OVER MILL CREEK  
 MONTGOMERY COUNTY



**END ELEVATION**  
 Scale: 1/4" = 1'-0"



**SECTION C-C**  
 Scale: 1/4" = 1'-0"

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JSS	DRAWN: AED	
CHECKED: DRD	CHECKED: BTH	

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
  
 GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	032-54-10370
VERTICAL SCALE	DESIGNATION
AS SHOWN	1800075
SURVEY BOOK	SHEETS
N/A	18 of 40
CONTRACT	PROJECT
B-43793	1800075

**GENERAL NOTES**

All Dimensions are in feet (Ft.) except as noted.

A three-sided arch-top structure with a 38 ft perpendicular span and a 12'6" rise may be substituted for the structure shown on the Plan/Layout sheet.

Footings are anticipated to be keyed into bedrock.

See Standard Drawing E601-MGSA for W-Beam Guardrail Installation.

Contractor shall verify the Existing Flowline Elevation to set the appropriate Sump Depth.

Designers should coordinate with the Office of Hydraulics to determine the necessary adjustments to invert and top of footing elevations. Typically, if the difference between the flowline elevation shown in the plans and existing flowline is half the sump depth or greater, the structure elevations should be lowered accordingly to provide the sump as shown on the plans. If the existing flowline elevation is higher than the flowline elevation shown on the plans, no changes are required to the structure elevations.

**SUMMARY OF QUANTITIES**

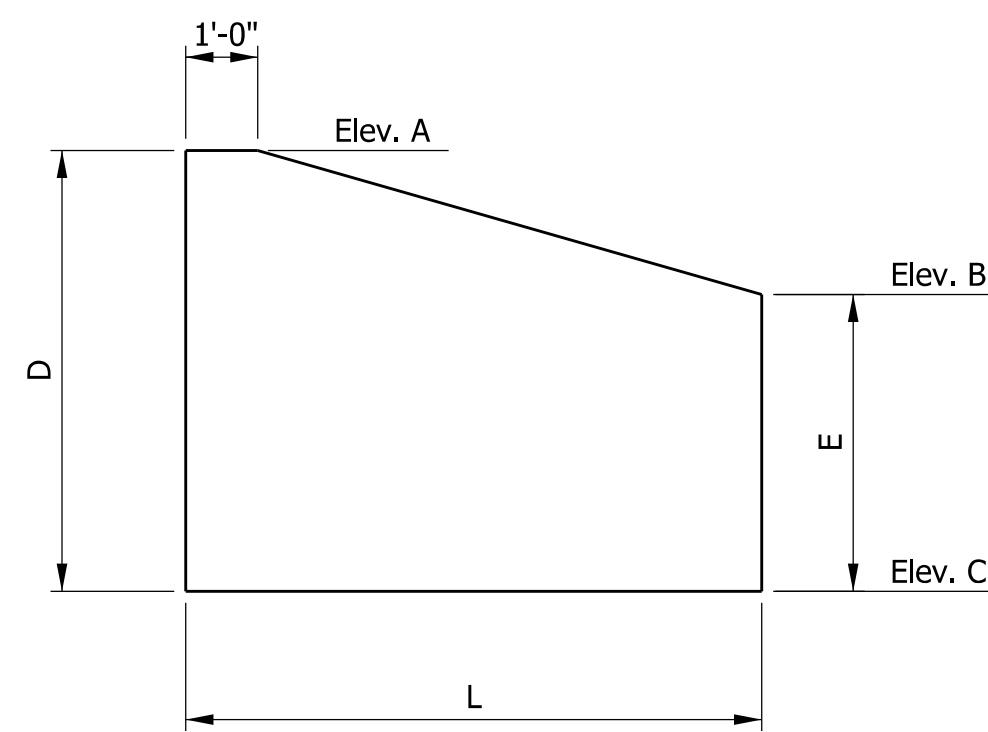
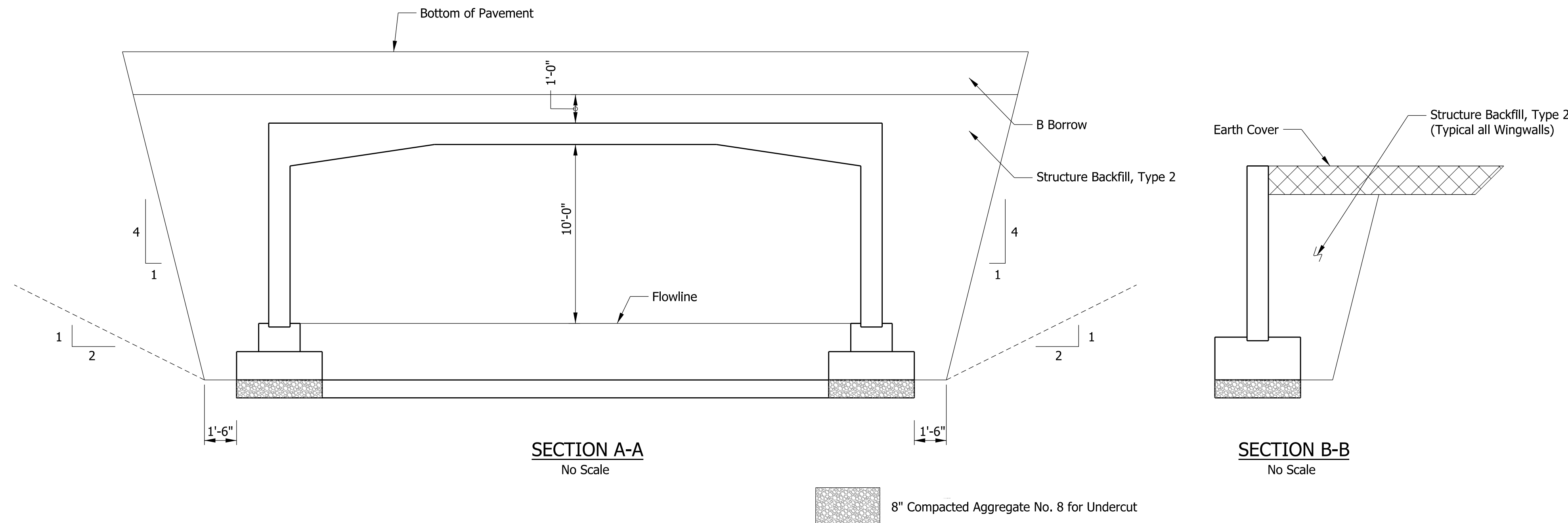
STRUCTURE BACKFILL, TYPE 2 = 709 CY5

**DESIGN DATA**

Designed for HL-93 loading in accordance with AASHTO LRFD Bridge Design Specifications, Ninth Edition, 2020 and Subsequent Interims.

**DEAD LOAD**

Actual weight plus 35 lb/ft for future wearing surface.



**WINGWALL ELEVATION**  
No Scale

WINGWALL TABLE					
	Wing A	Wing B	Wing C	Wing D	
Elev. A	660.95	660.95	659.17	659.17	
Elev. B	653.36	655.44	653.73	651.65	
Elev. C	646.37	646.37	644.61	644.61	
D	14.58	14.58	14.56	14.56	
E	7.00	9.07	9.12	7.04	
L	10.00	24.00	24.00	10.00	
Area (SFT.)	112.00	287.00	287.00	112.00	Total 798.00

Soil Parameters for Headwall and Wingwall	
Nominal Bearing Resistance, Qn (psf)	10,000
Resistance Factor	0.45
Factored Bearing Resistance, Qr (psf)	4,500
Friction Angle between Wall and Backfill, $\delta$	20°
Angle of Internal Friction of Foundation Soil, $\phi$	N/A
Adhesion Between Foundation Soil and Footing, Ca (psf)	950
Cohesion of Foundation Soil (psf)	2,000
Nominal Friction Factor, f (At base of Foundation)	N/A

**PRECAST REINFORCED CONCRETE  
THREE-SIDED STRUCTURE  
36'-0" CLEAR SPAN x 12'-6" RISE x 188'-0" LONG  
SKEW: 25°00'00" RT.  
S.R. 32 OVER MILL CREEK  
MONTGOMERY COUNTY**

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		NTS	032-54-10370
DESIGNED: JSS DRAWN: AED	GENERAL PLAN	VERTICAL SCALE	DESIGNATION
		NTS	1800075
CHECKED: DRD CHECKED: BTH		SURVEY BOOK	SHEETS
		N/A	19 of 40
		CONTRACT	PROJECT
		B-43793	1800075





PAVEMENT MARKINGS SUMMARY TABLE							
LOCATION		Line, Solid				Raised Pavement Markers	NOTES
		White		Yellow			
From Station	To Station	6 in. LFT	8 in. LFT	6 in. LFT	6 in. LFT	EACH	
Line PR-A							
12+35.00	17+50.00	1,030		1,030		13	
TOTALS		1,030		1,030		13	

	PIPE MATERIAL		STRUCTURE NUMBER	
		PIPE TYPE / SHAPE		101
	SMOOTH PIPE SIZE		2 / CIR	
	CORRUGATED PIPE SIZE		24	
CONC.	RCP/RCHP (S)	CLASS	V	
		D _ RATING	3000	
PLASTIC PIPE	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)			
	CORRUGATED PE PIPE, TYPE S (S)*			
	RIBBED PE PIPE (S)*			
	SMOOTH WALL PE PIPE (S)* / MAXIMUM DR			
	PROFILE WALL PVC PIPE (S)			
CLAY	SMOOTH WALL PVC PIPE (S)*			
	VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)			
CORRUGATED STEEL PIPE / PIPE-ARCH	FULLY BIT. PAVED & LINED (S)	CORR. PROFILE THICKNESS		
	ZINC COATED (C)	CORR. PROFILE THICKNESS		
	ZINC COATED W/ BPI (C)	CORR. PROFILE THICKNESS		
	ALUM. COATED TYPE 2 (C)	CORR. PROFILE THICKNESS		
	ALUM. COATED TYPE 2 W/ BPI (C)	CORR. PROFILE THICKNESS		
	POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE THICKNESS		
	POLYMER PRECOATED GALVANIZED W/ BPI (C)	CORR. PROFILE THICKNESS		
	POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)	CORR. PROFILE THICKNESS		
	FIBER BONDED BITUMINOUS COATED (C)	CORR. PROFILE THICKNESS		
	FIBER BONDED BITUMINOUS COATED W/ BPI (C)	CORR. PROFILE THICKNESS		
	COR. ALUM. PIPE/P-ARCH	CORRUGATED ALUM. ALLOY PIPE (C)	CORR. PROFILE THICKNESS	
		CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)	CORR. PROFILE THICKNESS	
	STRUCTURAL PLATE PIPE/PIPE-ARCH	STR. PLATE ALUMINUM ALLOY PLATE (C)	CORR. PROFILE THICKNESS	
		STR. PLATE ALUMINUM ALLOY PLATE W/ CFP (C)	CORR. PROFILE THICKNESS	
STR. PLATE STEEL PIPE (C)		CORR. PROFILE THICKNESS **		
STR. PLATE STEEL PIPE W/ CFP (C)		CORR. PROFILE THICKNESS **		

MONUMENT TABLE									
LINE	DESIGNATION	STATION	Offset	MONUMENT A	MONUMENT B	MONUMENT C	MONUMENT D	SECTION CORNER	BENCH MARK POST
				EACH	EACH	EACH	EACH	EACH	EACH
"PR-A"	Begin Project	13+10.00	0.00'		1				
"PR-A"	End Project	17+25.00	0.00'		1				
TOTALS					2				

MAILBOX APPROACHES					
LT/RT	STATION	DESCRIPTION	WIDTH (FT)	SINGLE	DOUBLE
LT	A 13+62.0	Mailbox After Drive		X	
LT	A 13+65.0	Mailbox After Drive		X	

ROW MARKERS				
LINE	SIDE	STATION	OFFSET	ROW MARKER
	LT/RT			
"PR-A"	LT	13+80.75	20.47'	1
"PR-A"	LT	13+85.00	70.00'	1
"PR-A"	LT	13+99.61	72.00'	1
"PR-A"	RT	12+39.62	Ex. R/W	1
"PR-A"	RT	14+07.38	Ex. R/W	1
"PR-A"	RT	14+39.07	240.00'	1
"PR-A"	RT	15+36.00	218.00'	1
"PR-A"	RT	15+54.00	126.50'	1
"PR-A"	RT	17+31.08	96.56'	1
"PR-A"	RT	17+84.96	113.03'	1
TOTAL:				10

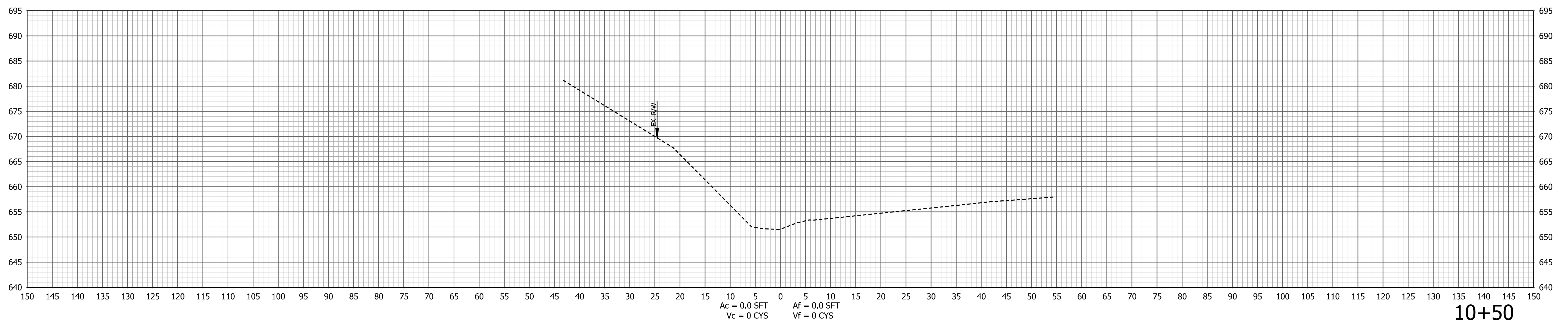
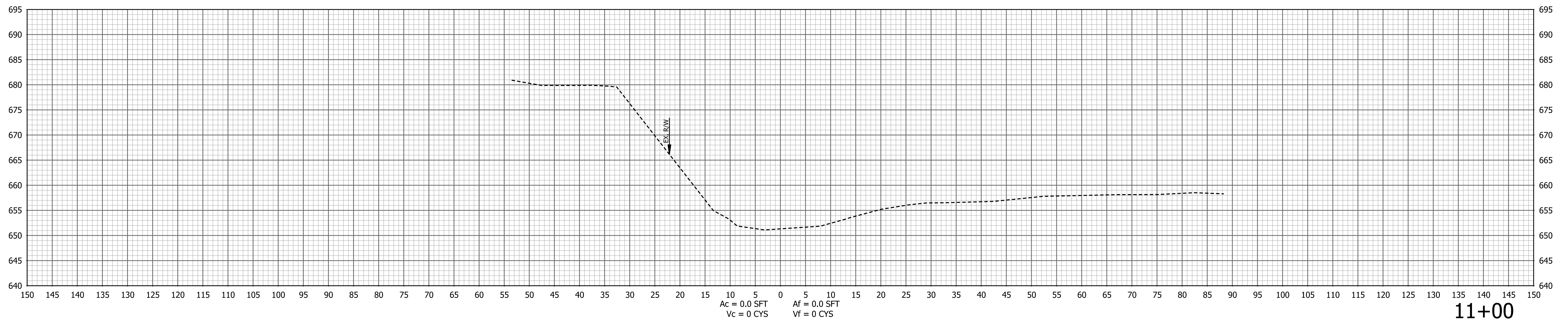
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 TIME PLOTTED: 9:44:57 AM

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	
DESIGNED: JSS	DRAWN: AED
CHECKED: DRD	CHECKED: BTH

INDIANA DEPARTMENT OF TRANSPORTATION	
MISCELLANEOUS TABLES	

HORIZONTAL SCALE NTS	BRIDGE FILE 032-54-10370
VERTICAL SCALE NTS	DESIGNATION 1800075
SURVEY BOOK N/A	SHEETS 21 of 40
CONTRACT B-43793	PROJECT 1800075

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DESIGNED: JSS _____	DRAWN: AED _____		
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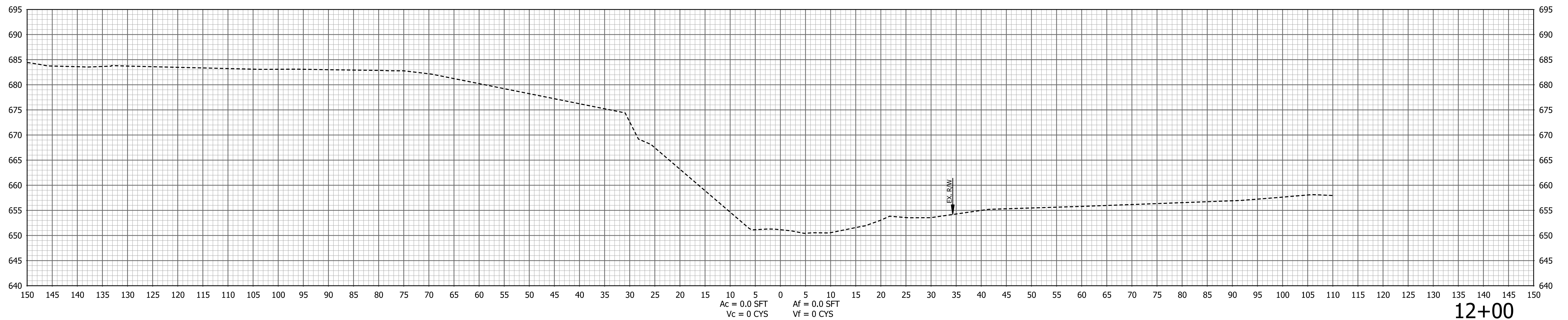
**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**

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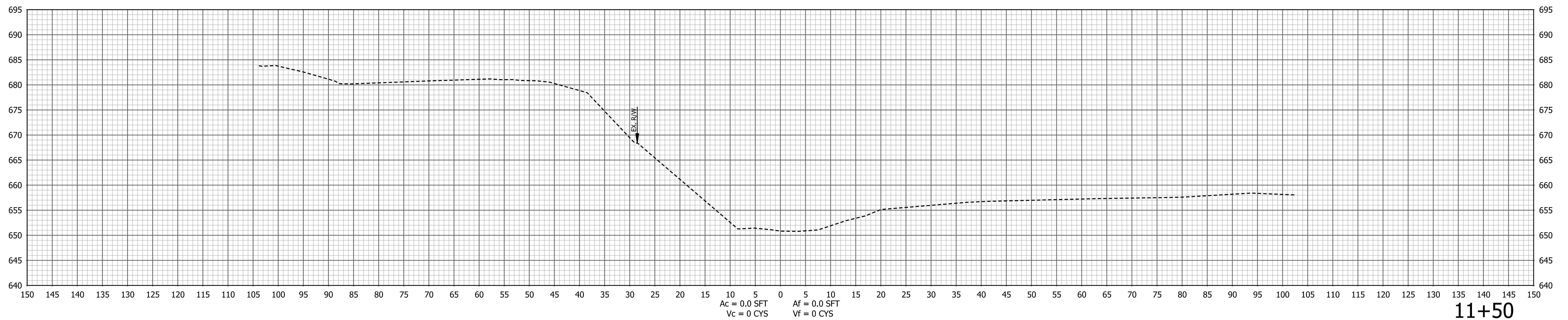
**CROSS SECTIONS**  
**LINE "PR-CH"**

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 032-54-10370
VERTICAL SCALE 1" = 10'	DESIGNATION 1800075
SURVEY BOOK N/A	SHEETS 22 of 40
CONTRACT B-43793	PROJECT 1800075

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 DATE PLOTTED: 6/22/2023  
 TIME PLOTTED: 9:44:58 AM



12+00



11+50

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER _____	DATE _____
DESIGNED: JSS	DRAWN: AED		
CHECKED: DRD	CHECKED: BTH		

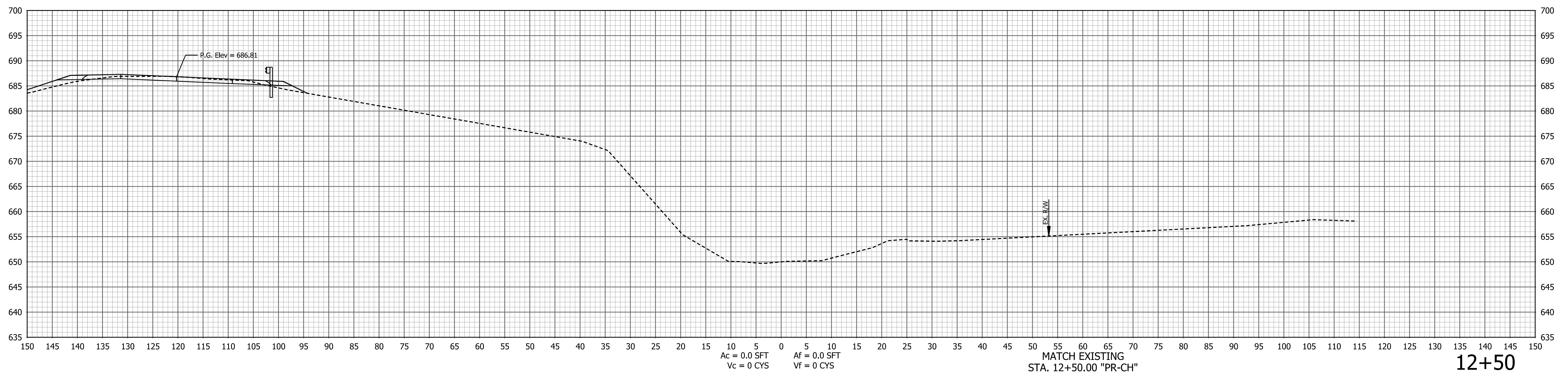
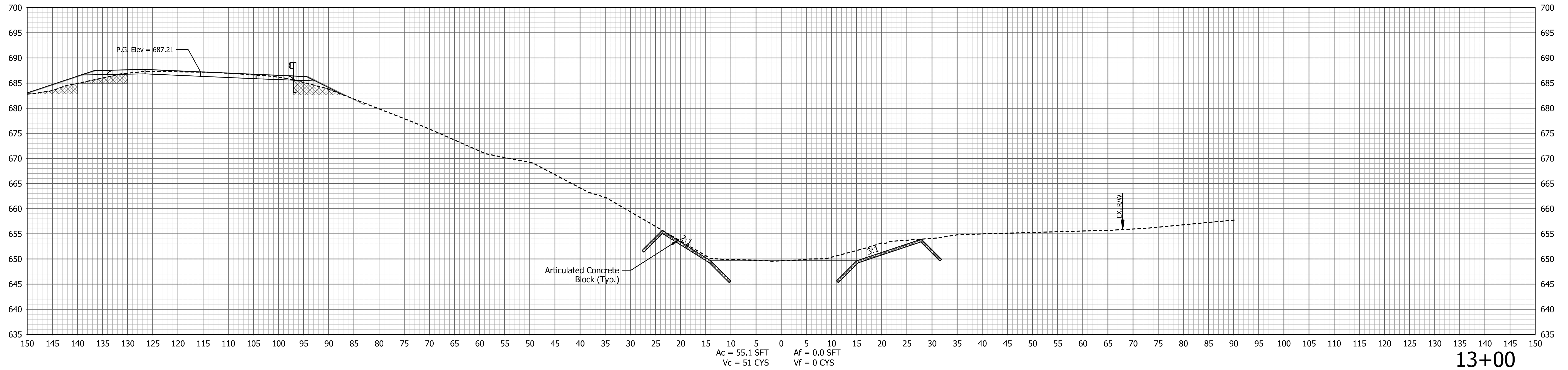
**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**

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**CROSS SECTIONS**  
**LINE "PR-CH"**

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	032-54-10370
VERTICAL SCALE	DESIGNATION
1" = 10'	1800075
SURVEY BOOK	SHEETS
N/A	23 of 40
CONTRACT	PROJECT
B-43793	1800075

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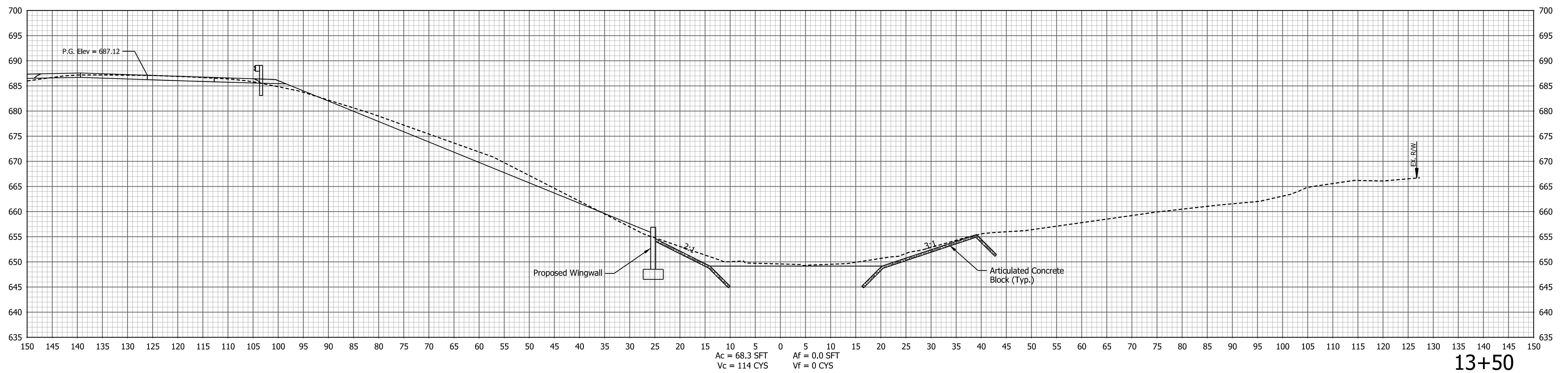
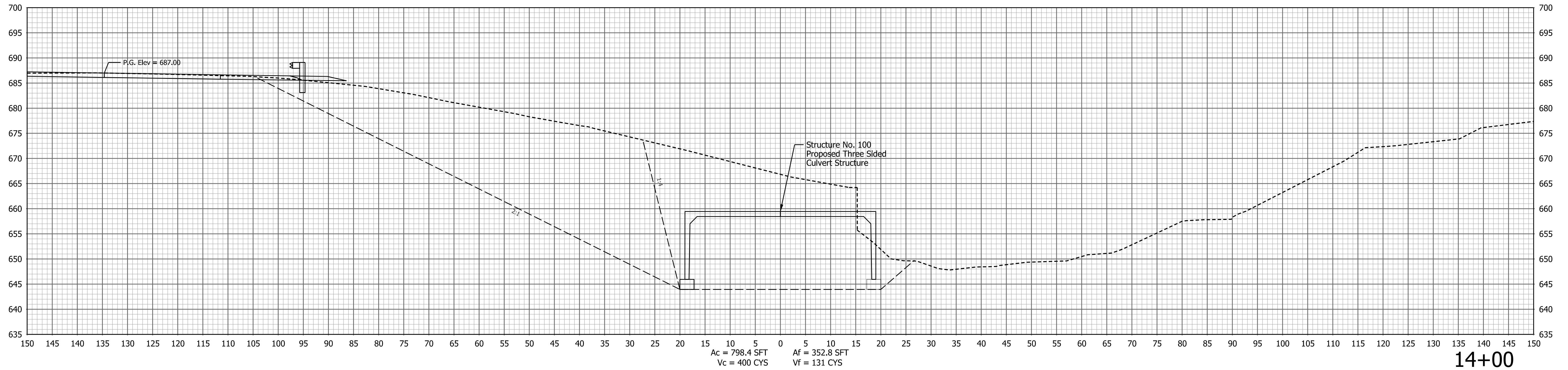


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DESIGNED: JSS	DRAWN: AED		
CHECKED: DRD	CHECKED: BTH		

**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**  
  
**CROSS SECTIONS**  
**LINE "PR-CH"**

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 032-54-10370
VERTICAL SCALE 1" = 10'	DESIGNATION 1800075
SURVEY BOOK N/A	SHEETS 24 of 40
CONTRACT B-43793	PROJECT 1800075

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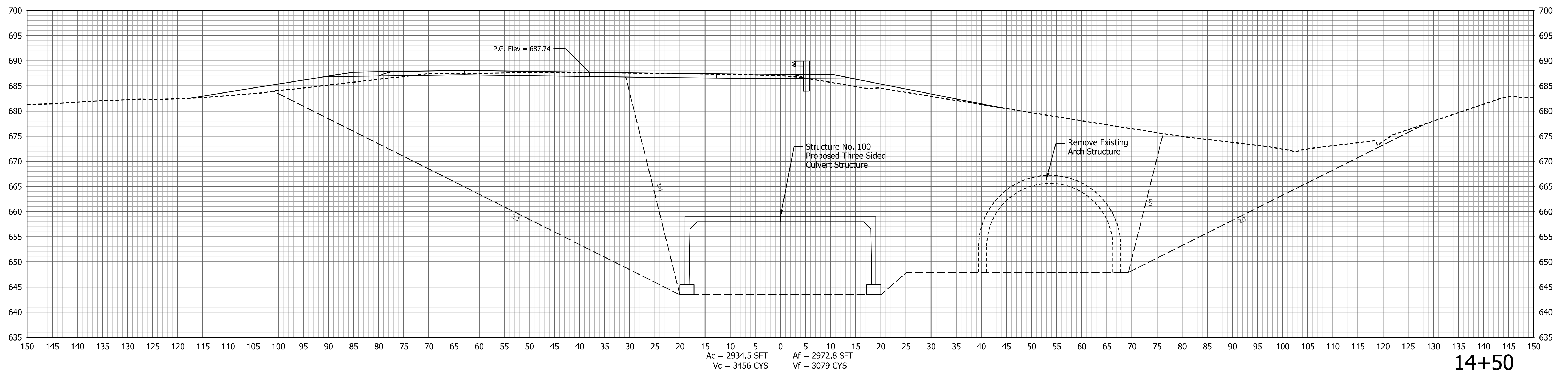
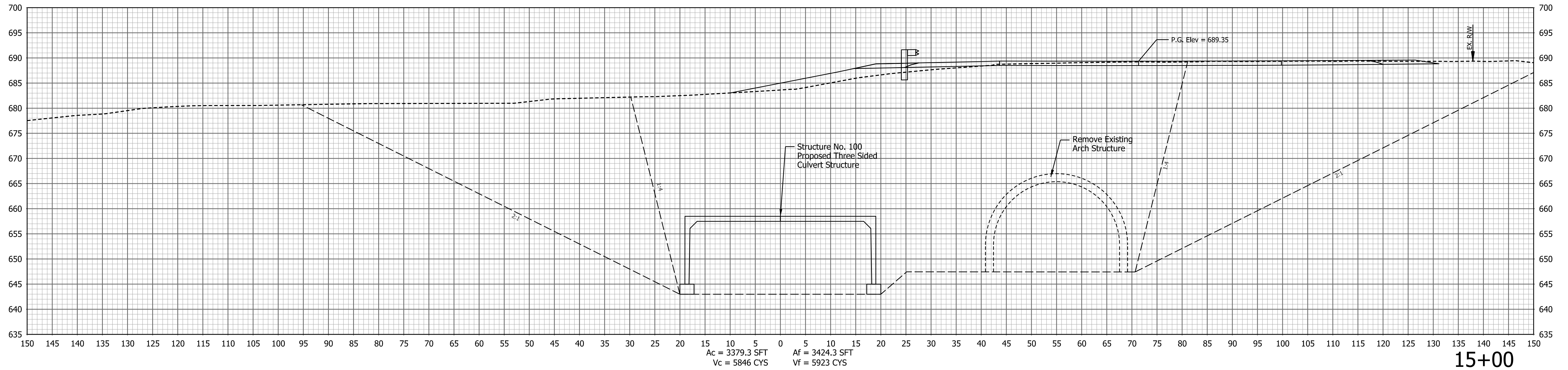
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DESIGNED: JSS	DRAWN: AED		
CHECKED: DRD	CHECKED: BTH		

**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**  
**LINE "PR-CH"**

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 032-54-10370
VERTICAL SCALE 1" = 10'	DESIGNATION 1800075
SURVEY BOOK N/A	SHEETS 25 of 40
CONTRACT B-43793	PROJECT 1800075

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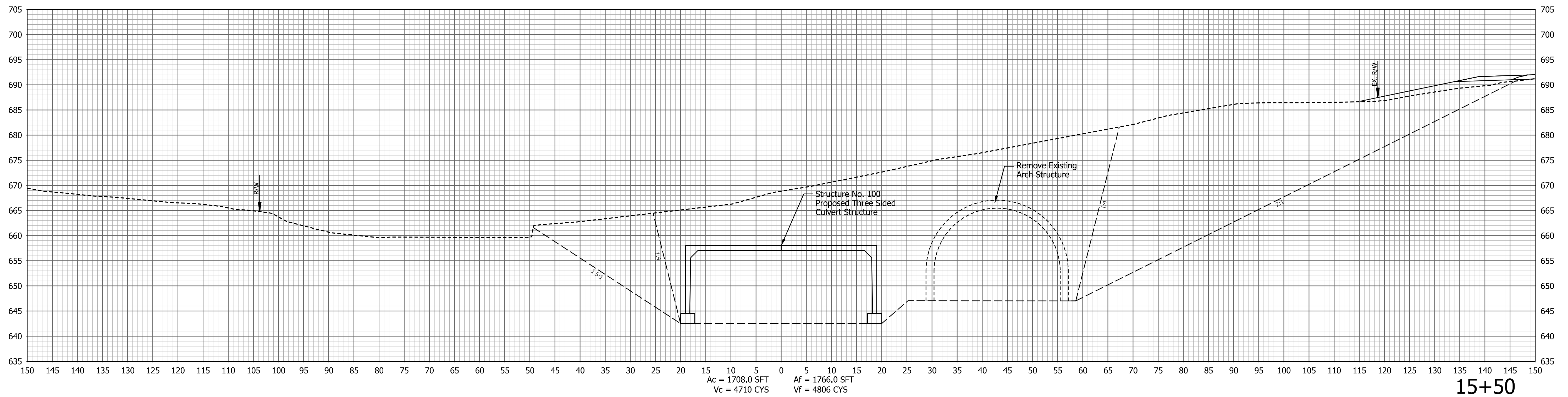
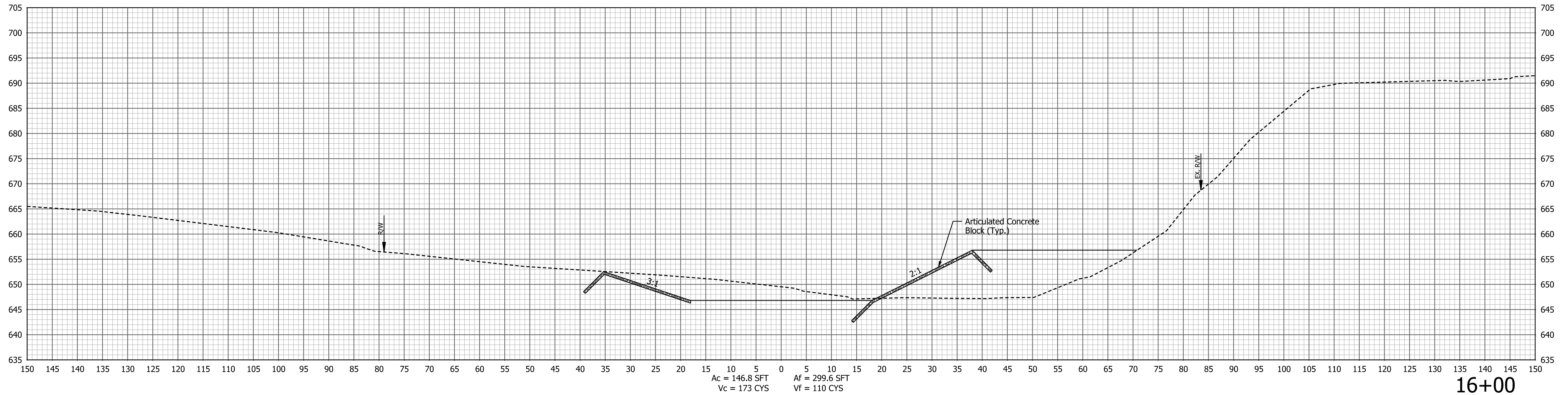


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JSS	DRAWN: AED	
CHECKED: DRD	CHECKED: BTH	

**INDIANA DEPARTMENT OF TRANSPORTATION**  
  
**CROSS SECTIONS**  
**LINE "PR-CH"**

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	032-54-10370
VERTICAL SCALE	DESIGNATION
1" = 10'	1800075
SURVEY BOOK	SHEETS
N/A	26 of 40
CONTRACT	PROJECT
B-43793	1800075

PATH AND FILENAME: V:\Projects\ANY\K5\36243\CADD\MSTN\1800075\Sheet Drawings\1800075\_Sht\_Xsec\_10\_Channel.dgn  
 MODEL NAME: Sheet 06  
 DATE PLOTTED: 6/22/2023  
 TIME PLOTTED: 9:45:00 AM



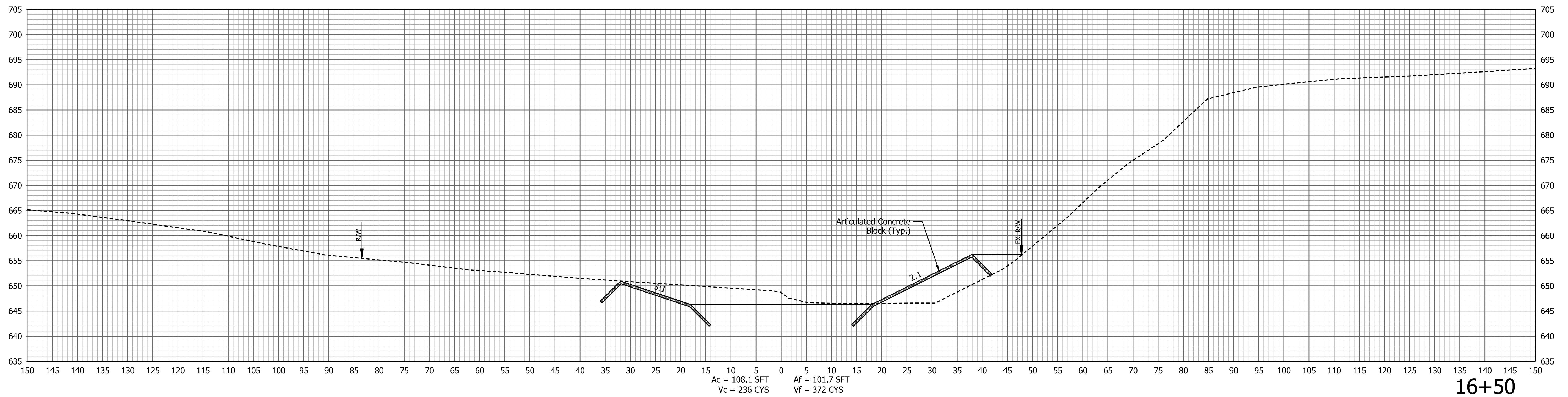
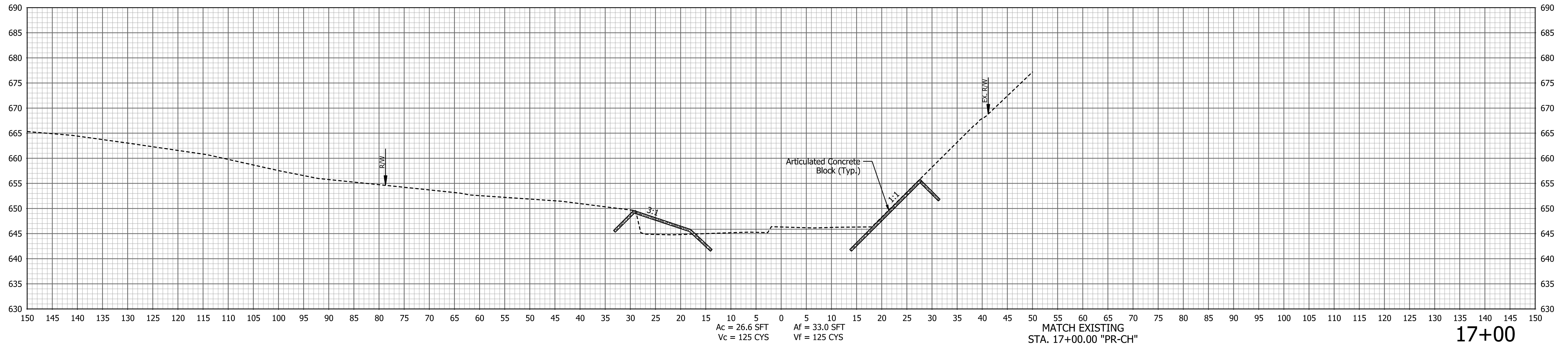
RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	DATE
DESIGNED: JSS	DRAWN: AED		
CHECKED: DRD	CHECKED: BTH		

**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**  
**LINE "PR-CH"**

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	032-54-10370
VERTICAL SCALE	DESIGNATION
1" = 10'	1800075
SURVEY BOOK	SHEETS
N/A	27 of 40
CONTRACT	PROJECT
B-43793	1800075

PATH AND FILENAME: V:\Projects\ANY\K5\36243\CADD\MSTN\1800075\Sheet Drawings\1800075\_Sht\_Xsec\_10\_Channel.dgn  
 MODEL NAME: Sheet 07  
 DATE PLOTTED: 6/22/2023  
 TIME PLOTTED: 9:45:00 AM



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JSS	DRAWN: AED	
CHECKED: DRD	CHECKED: BTH	

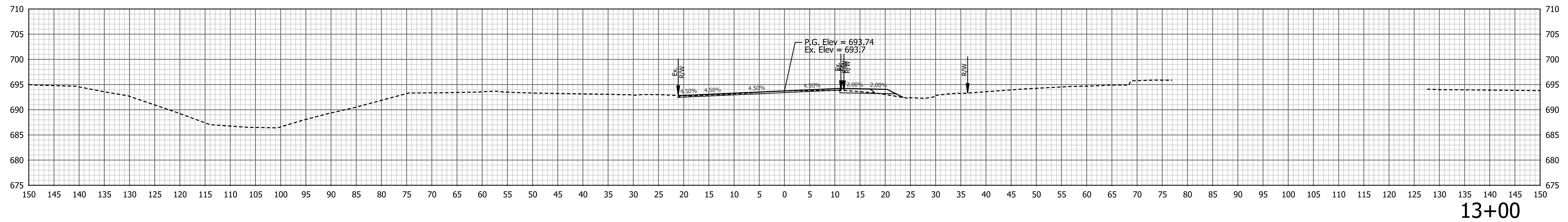
INDIANA  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 LINE "PR-CH"

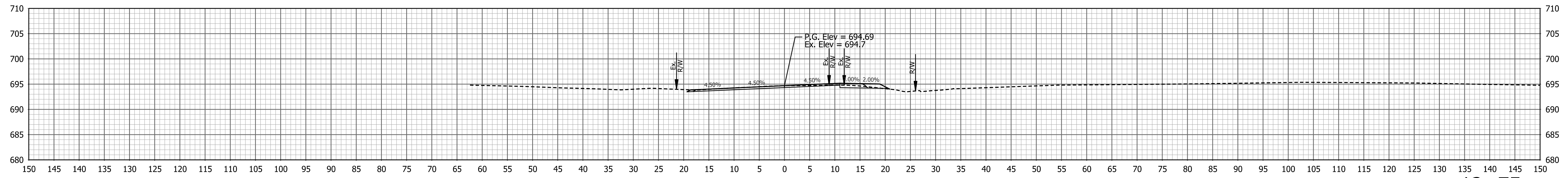
HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	032-54-10370
VERTICAL SCALE	DESIGNATION
1" = 10'	1800075
SURVEY BOOK	SHEETS
N/A	28 of 40
CONTRACT	PROJECT
B-43793	1800075



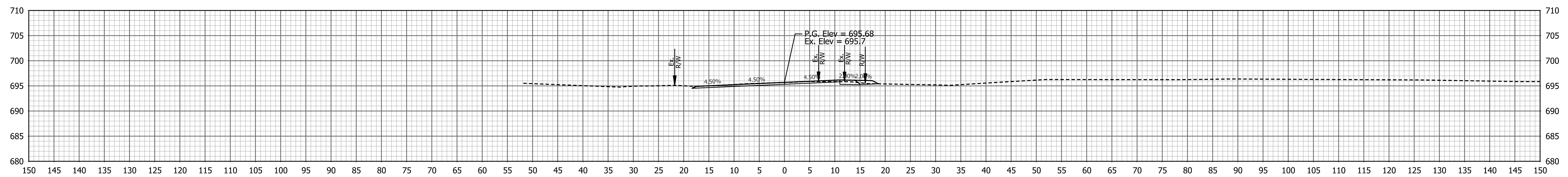
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 MODEL NAME: XS-001  
 DATE PLOTTED: 6/22/2023  
 TIME PLOTTED: 9:45:05 AM



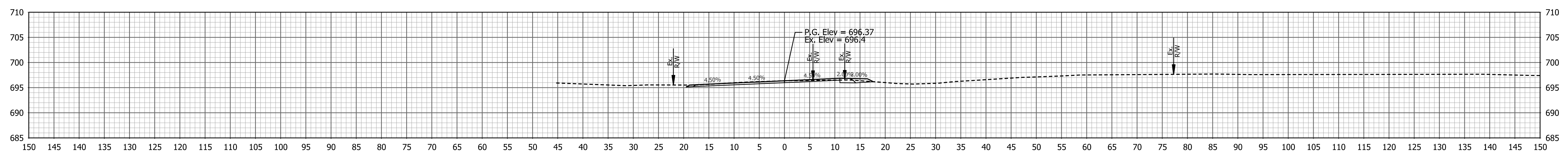
13+00



12+75



12+50



12+35

BEGIN INCIDENTAL CONSTRUCTION  
STA. 12+35.00 "PR-A"

**LEGEND**  

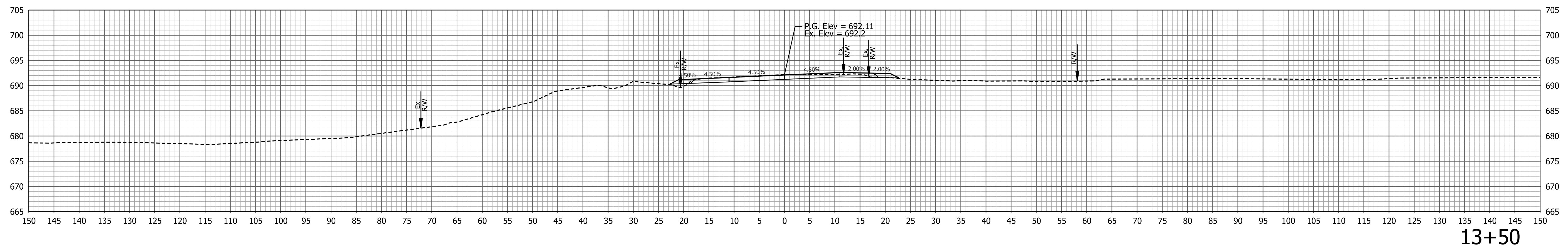
 Benching

RECOMMENDED FOR APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_  
 DESIGN ENGINEER  
 DESIGNED: JSS DRAWN: AED  
 CHECKED: DRD CHECKED: BTH

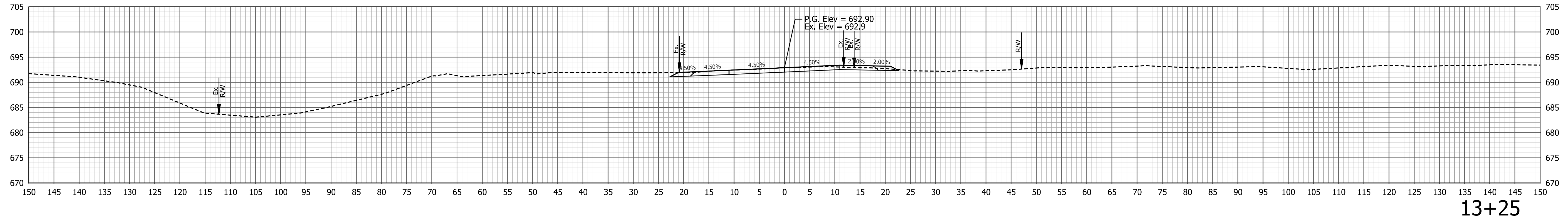
INDIANA DEPARTMENT OF TRANSPORTATION  
 CROSS SECTIONS LINE "PR-A"

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 032-54-10370
VERTICAL SCALE 1" = 10'	DESIGNATION 1800075
SURVEY BOOK N/A	SHEETS 29 of 40
CONTRACT B-43793	PROJECT 1800075

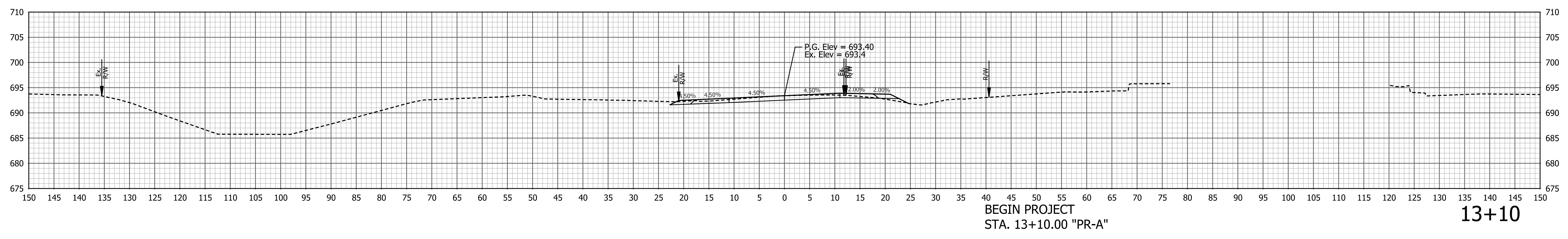
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 MODEL NAME: XS-002  
 DATE PLOTTED: 6/22/2023  
 TIME PLOTTED: 9:45:06 AM



13+50



13+25

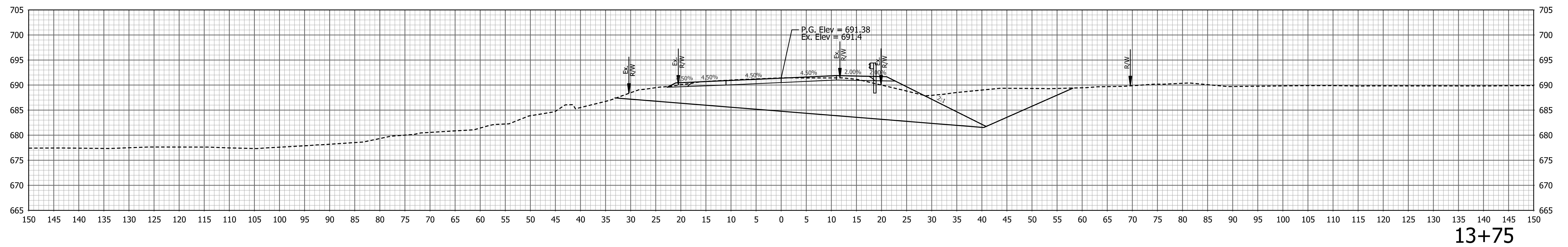
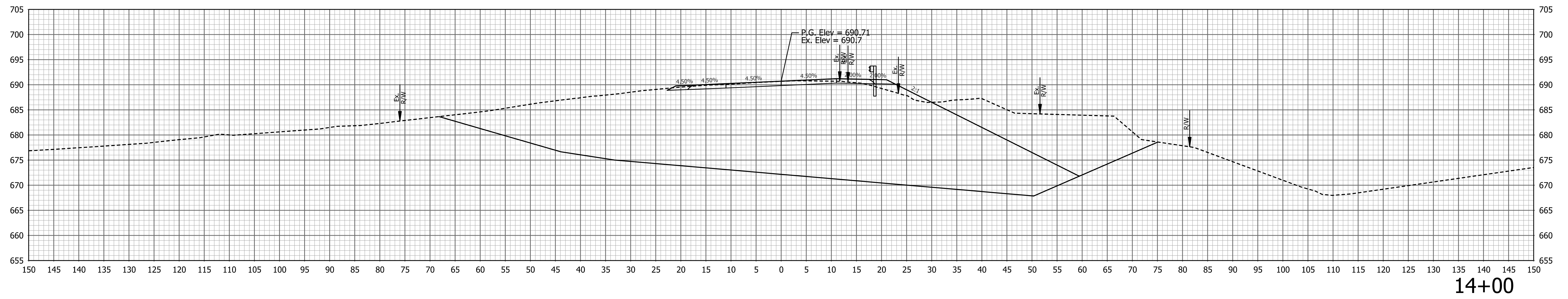


BEGIN PROJECT  
 STA. 13+10.00 "PR-A"

13+10

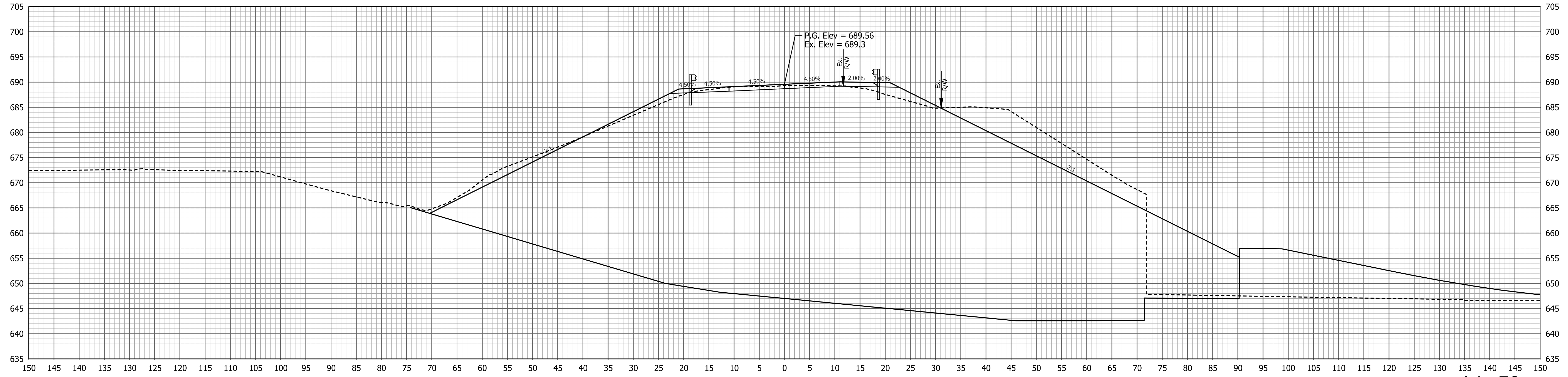
<b>LEGEND</b> Benching	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 032-54-10370
	DESIGNED: JSS CHECKED: DRD	DRAWN: AED CHECKED: BTH		VERTICAL SCALE 1" = 10'	SURVEY BOOK N/A
<b>CROSS SECTIONS          LINE "PR-A"</b>			CONTRACT B-43793	SHEETS 30 of 40	PROJECT 1800075

PATH AND FILENAME: V:\Projects\ANY\K5\36243\CADD\MSTN\1800075\Sheet Drawings\1800075\_Sht Xsec\_10\_Road.dgn  
 MODEL NAME: XS-003  
 DATE PLOTTED: 6/22/2023  
 TIME PLOTTED: 9:45:07 AM

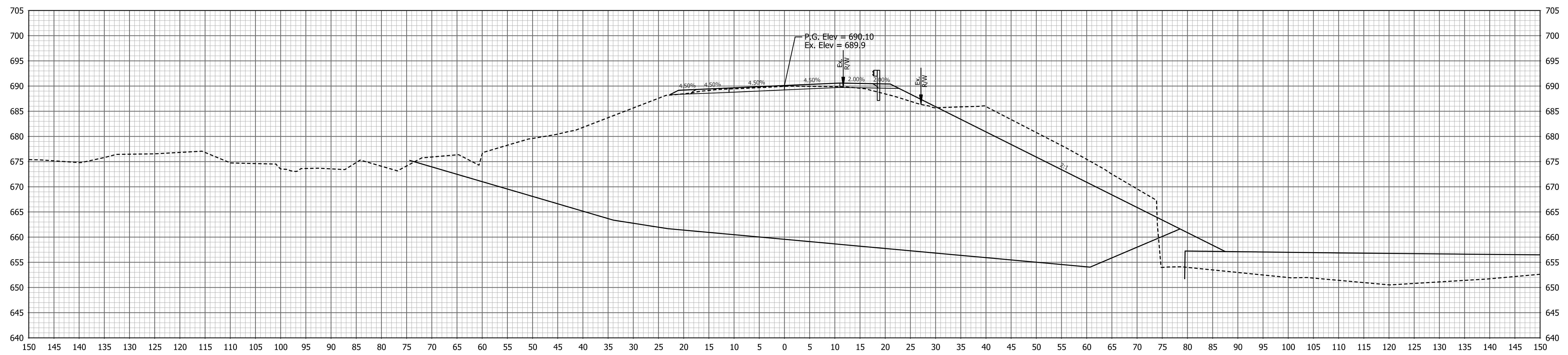


<b>LEGEND</b> Benching	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 032-54-10370
	DESIGNED: JSS CHECKED: DRD	DRAWN: AED CHECKED: BTH	CROSS SECTIONS LINE "PR-A"		VERTICAL SCALE 1" = 10'	DESIGNATION 1800075
					SURVEY BOOK N/A	SHEETS 31 of 40
					CONTRACT B-43793	PROJECT 1800075

PATH AND FILENAME: V:\Projects\ANY\K5\36243\CADD\MSTN\1800075\Sheet Drawings\1800075\_Sht\_Xsec\_10\_Road.dgn  
 MODEL NAME: XS-004  
 DATE PLOTTED: 6/22/2023  
 TIME PLOTTED: 9:45:08 AM



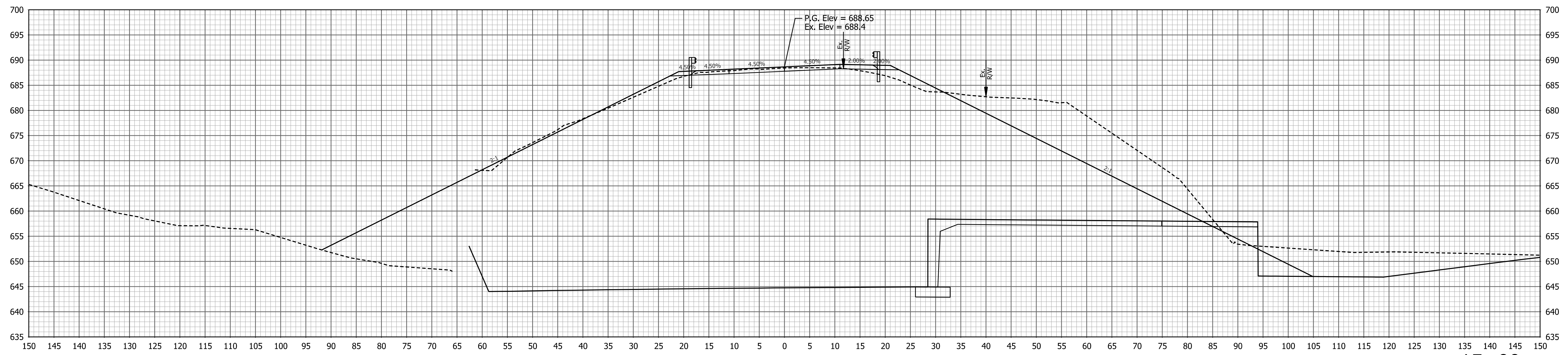
14+50



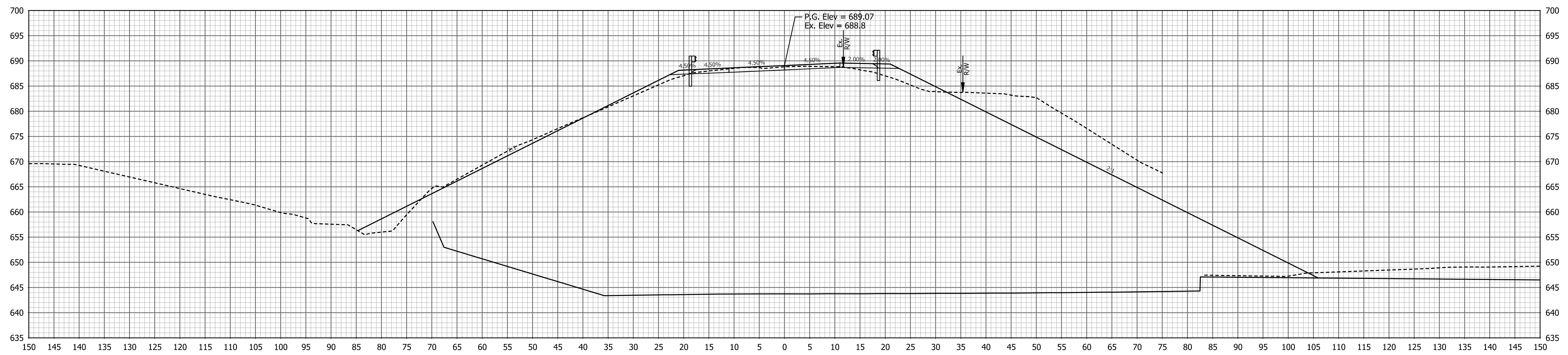
14+25

<b>LEGEND</b> Benching	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 10'	BRIDGE FILE 032-54-10370 DESIGNATION 1800075
	DESIGNED: JSS CHECKED: DRD	DRAWN: AED CHECKED: BTH	CROSS SECTIONS LINE "PR-A"		SURVEY BOOK N/A	SHEETS 32 of 40

PATH AND FILENAME: V:\Projects\ANY\K5\36243\CADD\MSTN\1800075\Sheet Drawings\1800075\_Sht\_Xsec\_10\_Road.dgn  
 MODEL NAME: XS-005  
 DATE PLOTTED: 6/22/2023  
 TIME PLOTTED: 9:45:09 AM



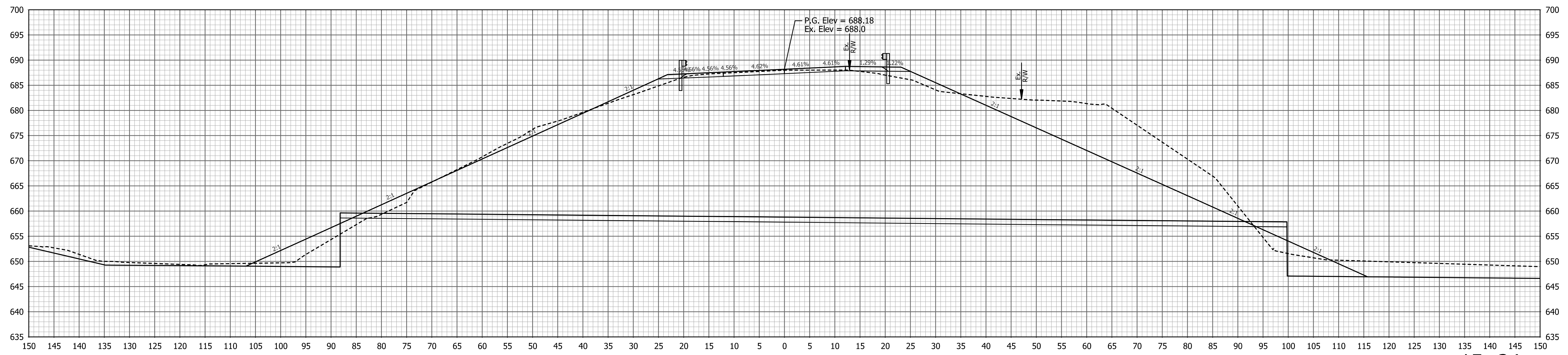
15+00



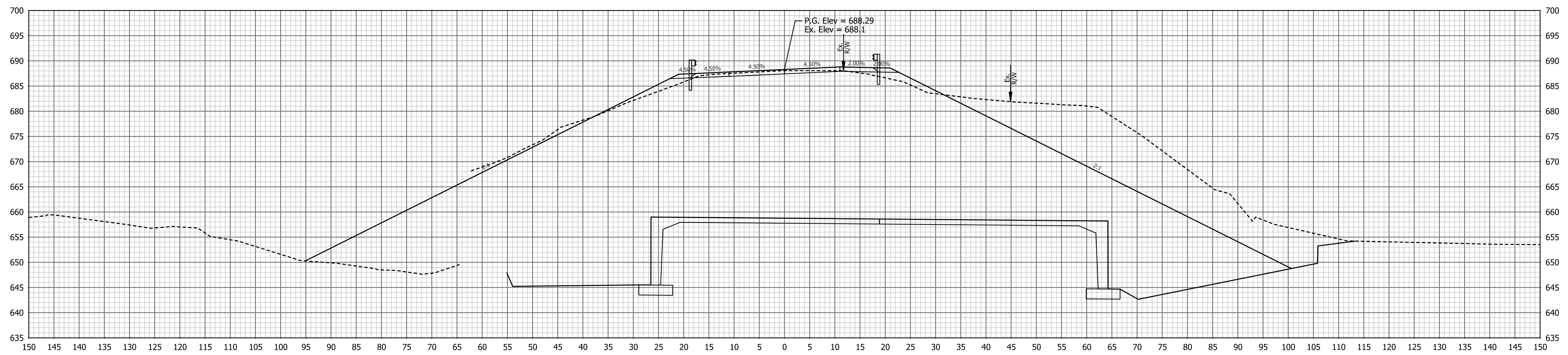
14+75

<b>LEGEND</b> Benching	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____		<b>INDIANA DEPARTMENT OF TRANSPORTATION</b>		HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 10'	BRIDGE FILE 032-54-10370 DESIGNATION 1800075
	DESIGNED: JSS CHECKED: DRD	DRAWN: AED CHECKED: BTH	<b>CROSS SECTIONS          LINE "PR-A"</b>		SURVEY BOOK N/A CONTRACT B-43793	SHEETS 33 of 40 PROJECT 1800075

PATH AND FILENAME: V:\Projects\ANY\K5\36243\CADD\MSTN\1800075\Sheet Drawings\1800075\_Sht Xsec\_10\_Road.dgn  
 MODEL NAME: XS-006  
 DATE PLOTTED: 6/22/2023  
 TIME PLOTTED: 9:45:09 AM



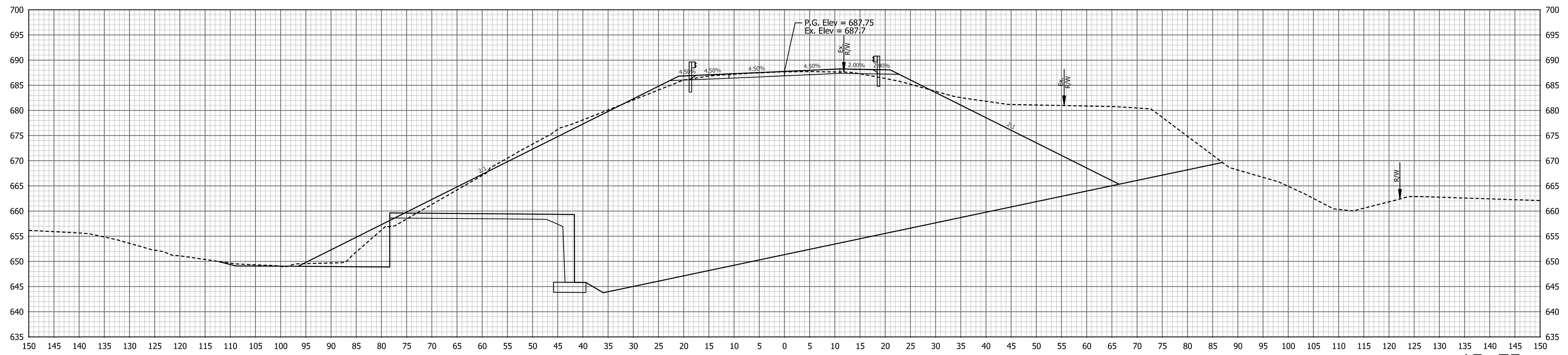
15+34



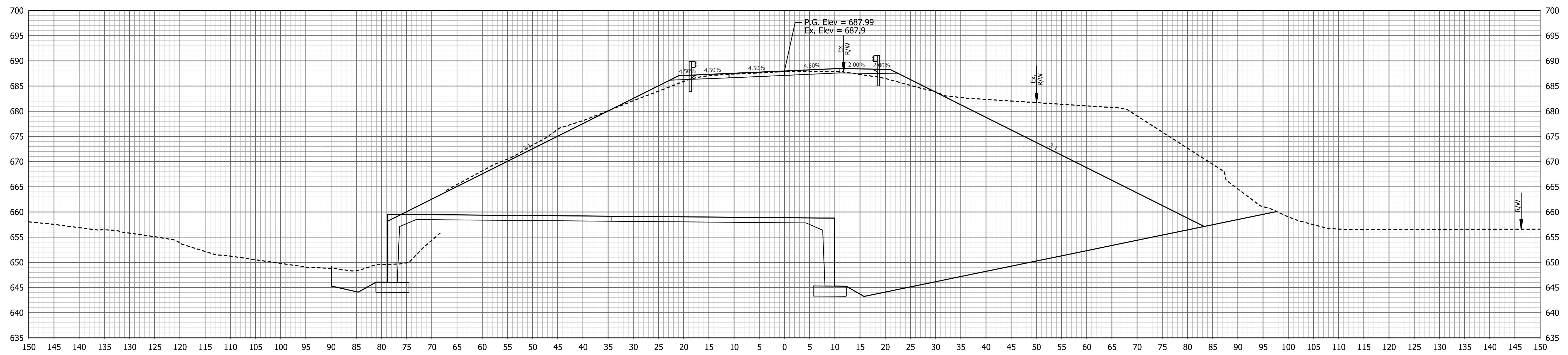
15+25

<b>LEGEND</b> Benching	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____		INDIANA DEPARTMENT OF TRANSPORTATION  CROSS SECTIONS LINE "PR-A"		HORIZONTAL SCALE 1" = 10'		BRIDGE FILE 032-54-10370	
	DESIGNED: JSS _____ DRAWN: AED _____ CHECKED: DRD _____ CHECKED: BTH _____				VERTICAL SCALE 1" = 10'		DESIGNATION 1800075	
					SURVEY BOOK N/A		PROJECT 1800075	
					CONTRACT B-43793			

PATH AND FILENAME: V:\Projects\ANY\K5\36243\CADD\MSTN\1800075\Sheet Drawings\1800075\_Sht\_Xsec\_10\_Road.dgn  
 MODEL NAME: XS-007  
 DATE PLOTTED: 6/22/2023  
 TIME PLOTTED: 9:45:10 AM



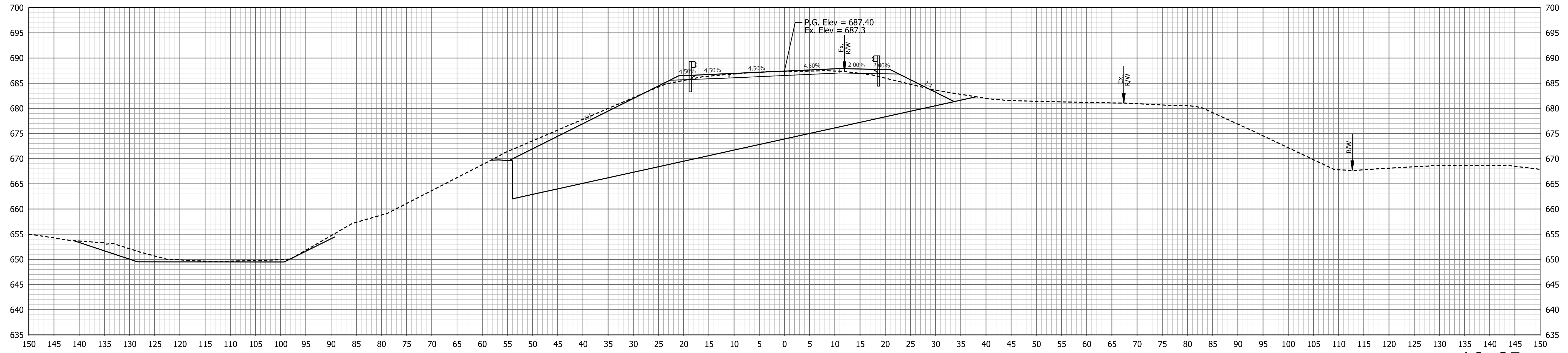
15+75



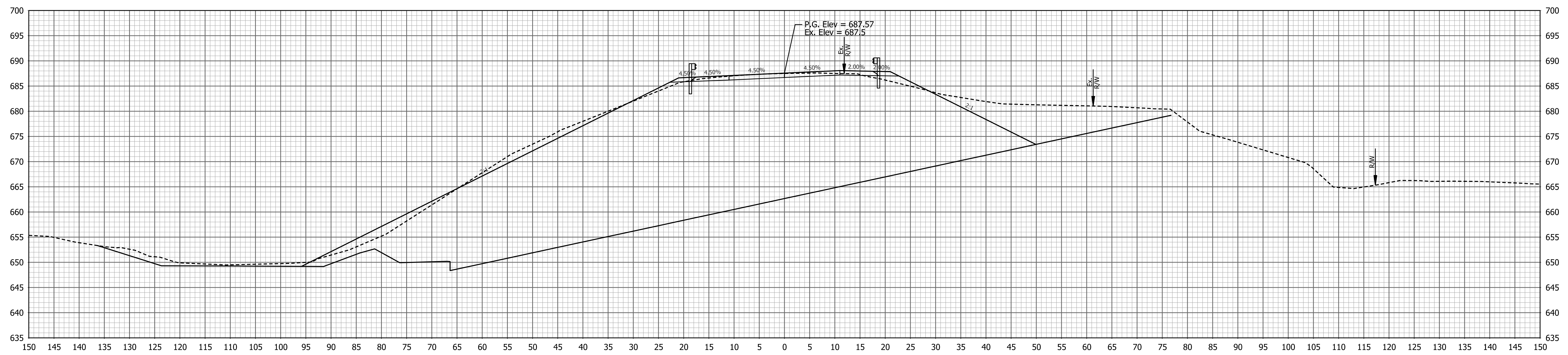
15+50

<b>LEGEND</b> Benching	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____		INDIANA DEPARTMENT OF TRANSPORTATION  CROSS SECTIONS LINE "PR-A"		HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 032-54-10370
	DESIGNED: JSS CHECKED: DRD	DRAWN: AED CHECKED: BTH			VERTICAL SCALE 1" = 10'	DESIGNATION 1800075
					SURVEY BOOK N/A	SHEETS 35 of 40
					CONTRACT B-43793	PROJECT 1800075

PATH AND FILENAME: V:\Projects\ANY\K5\36243\CADD\MSTN\1800075\Sheet Drawings\1800075\_Sht\_Xsec\_10\_Road.dgn  
 MODEL NAME: XS-008  
 DATE PLOTTED: 6/22/2023  
 TIME PLOTTED: 9:45:11 AM



16+25

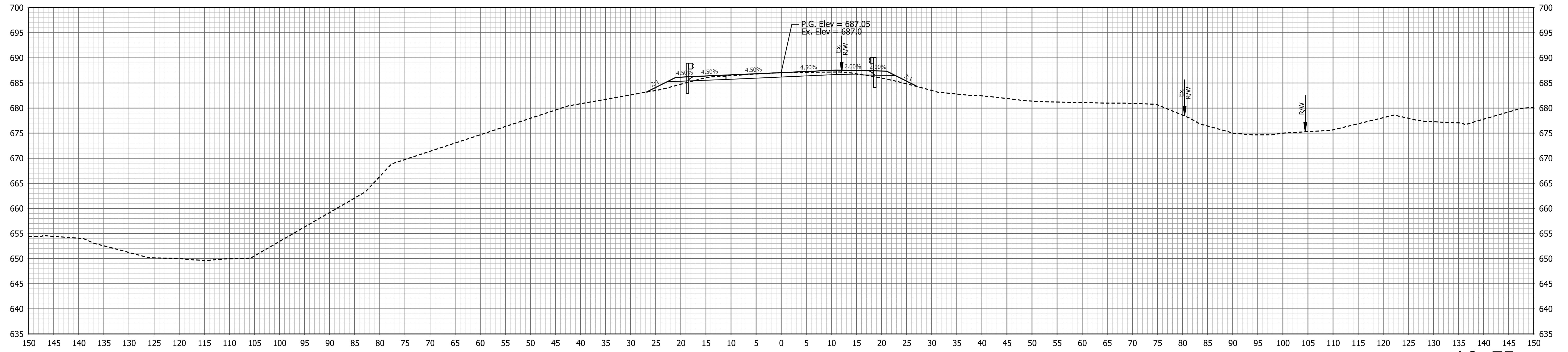


16+00

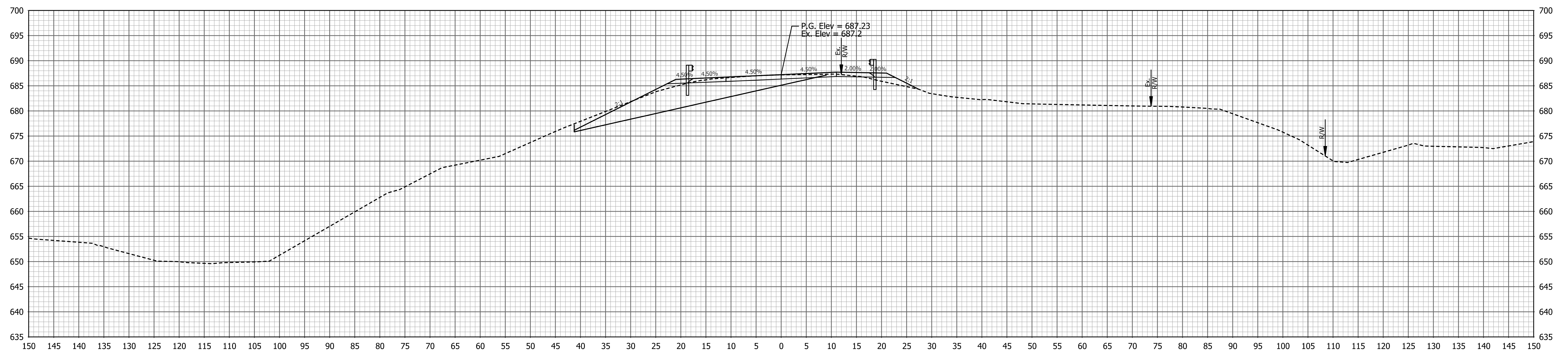
<b>LEGEND</b> Benching	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____		INDIANA DEPARTMENT OF TRANSPORTATION  CROSS SECTIONS LINE "PR-A"		HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 10'		BRIDGE FILE 032-54-10370 DESIGNATION 1800075	
	DESIGNED: JSS CHECKED: DRD	DRAWN: AED CHECKED: BTH			SURVEY BOOK N/A of 40 CONTRACT B-43793		SHEETS PROJECT 1800075	



PATH AND FILENAME: V:\Projects\ANY\K5\36243\CADD\MSTN\1800075\Sheet Drawings\1800075\_Sht\_Xsec\_10\_Road.dgn  
 MODEL NAME: XS-009  
 DATE PLOTTED: 6/22/2023  
 TIME PLOTTED: 9:45:12 AM



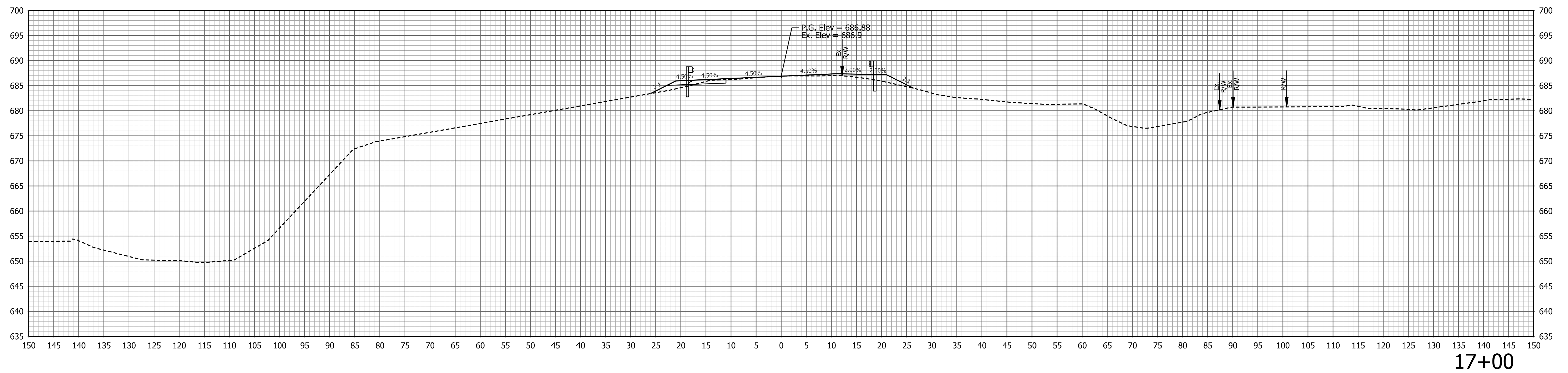
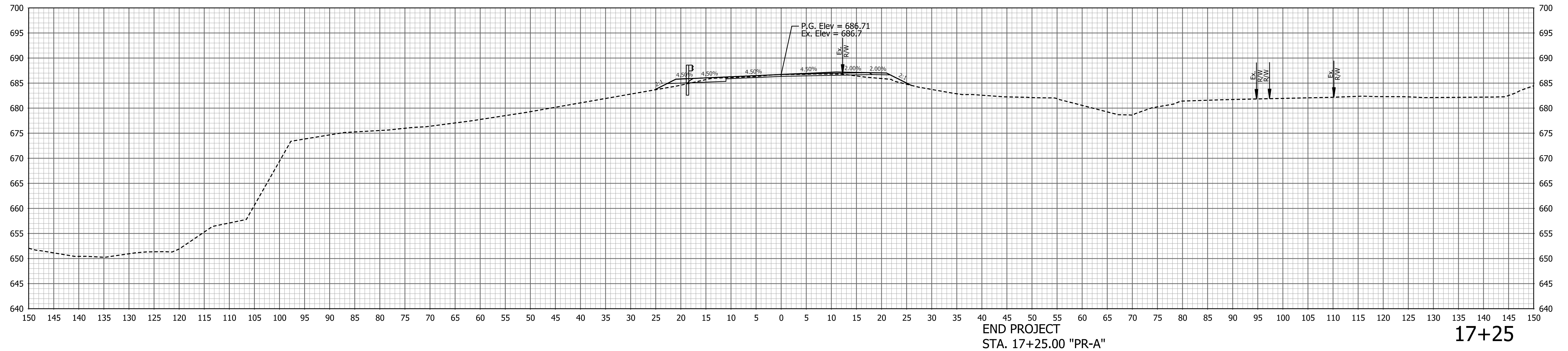
16+75



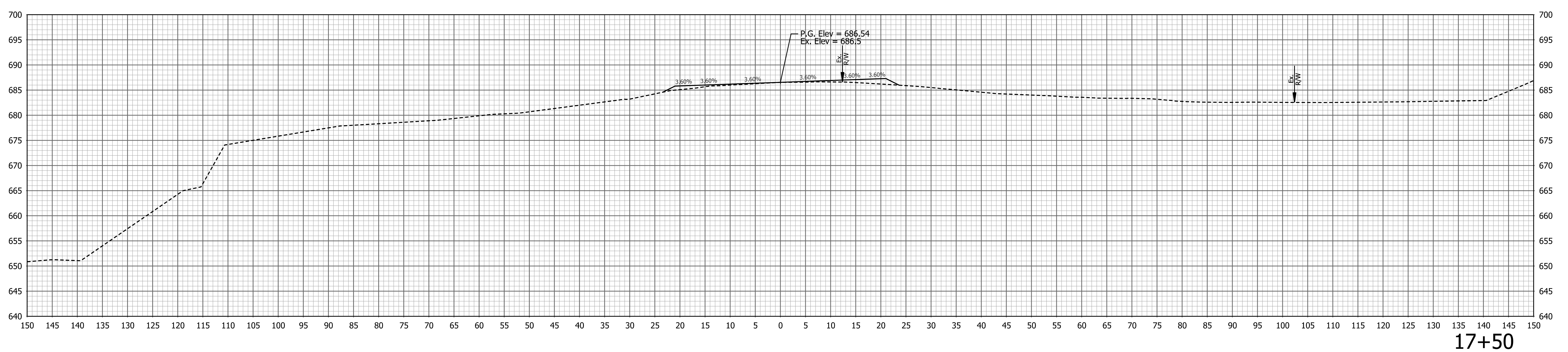
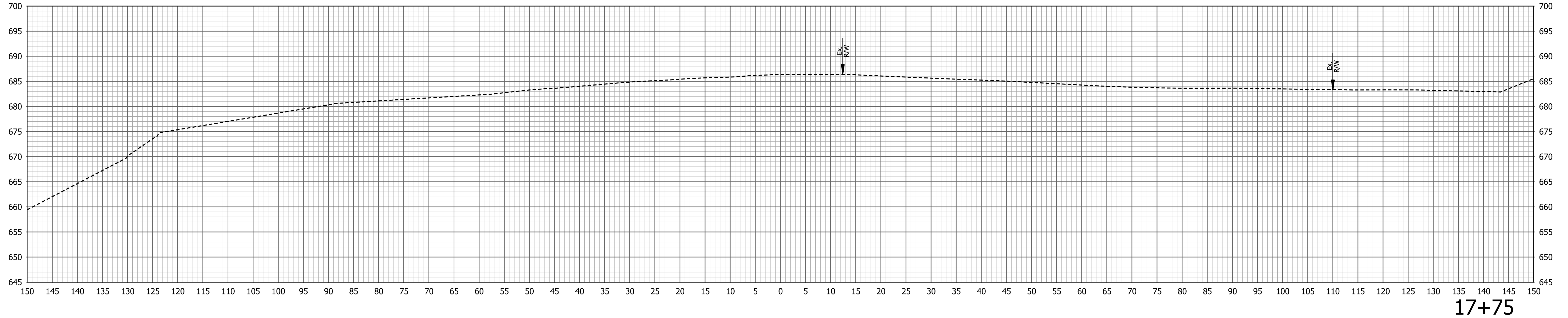
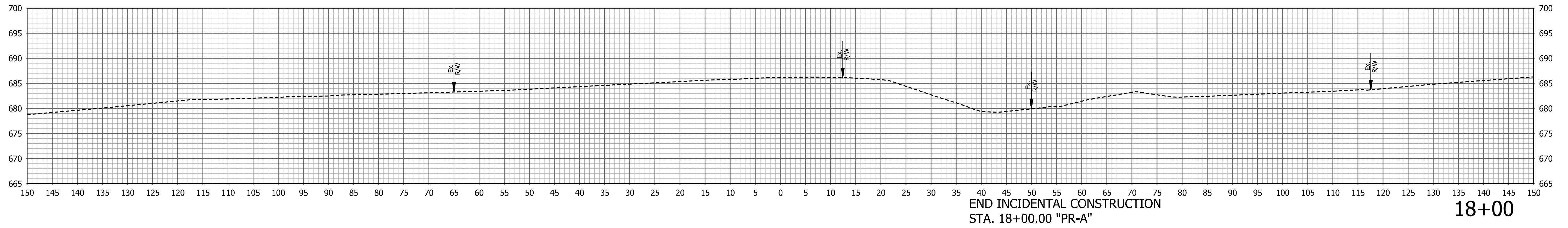
16+50

<b>LEGEND</b> Benching	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____		INDIANA DEPARTMENT OF TRANSPORTATION  CROSS SECTIONS LINE "PR-A"		HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 10'		BRIDGE FILE 032-54-10370 DESIGNATION 1800075	
	DESIGNED: JSS CHECKED: DRD	DRAWN: AED CHECKED: BTH			SURVEY BOOK N/A of 40 CONTRACT B-43793		SHEETS PROJECT 1800075	

PATH AND FILENAME: V:\Projects\ANY\K5\36243\CADD\MSTN\1800075\Sheet Drawings\1800075\_Sht\_Xsec\_10\_Road.dgn  
 MODEL NAME: XS-010  
 DATE PLOTTED: 6/22/2023  
 TIME PLOTTED: 9:45:13 AM



<b>LEGEND</b> Benching		<b>INDIANA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 10'
	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	DESIGNED: JSS _____ DRAWN: AED _____ CHECKED: DRD _____ CHECKED: BTH _____	<b>CROSS SECTIONS</b> <b>LINE "PR-A"</b>
		SHEETS 38 of 40 PROJECT 1800075	



PATH AND FILENAME: V:\Projects\ANY\K5\36243\CADD\MSTN\1800075\Sheet Drawings\1800075\_Sht\_Xsec\_10\_Road.dgn  
 MODEL NAME: XS-011  
 DATE PLOTTED: 6/22/2023  
 TIME PLOTTED: 9:45:14 AM

LEGEND	
	Benching

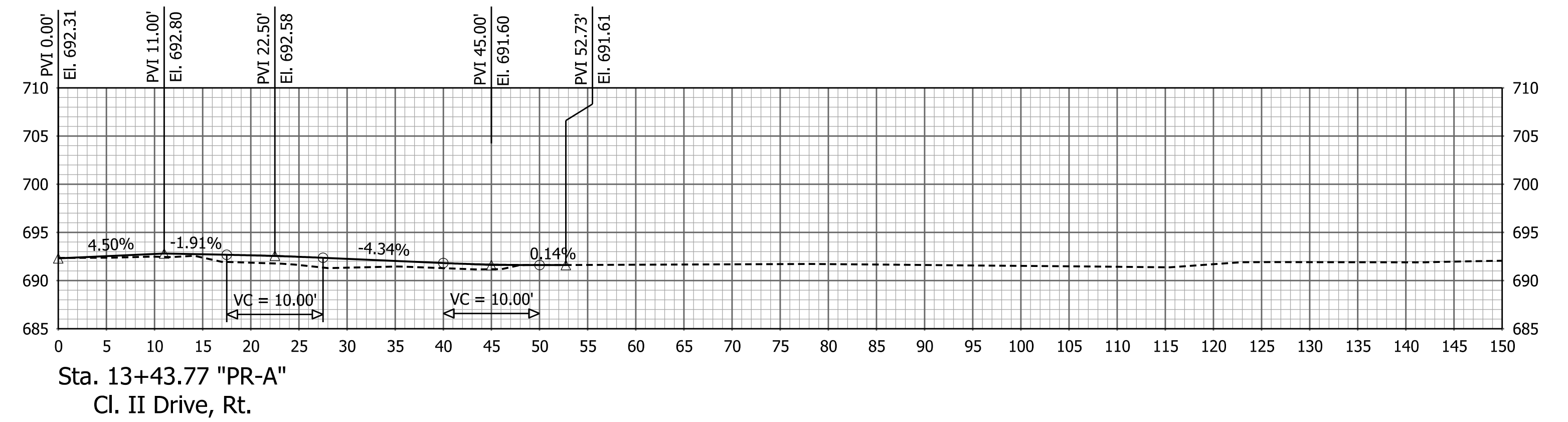
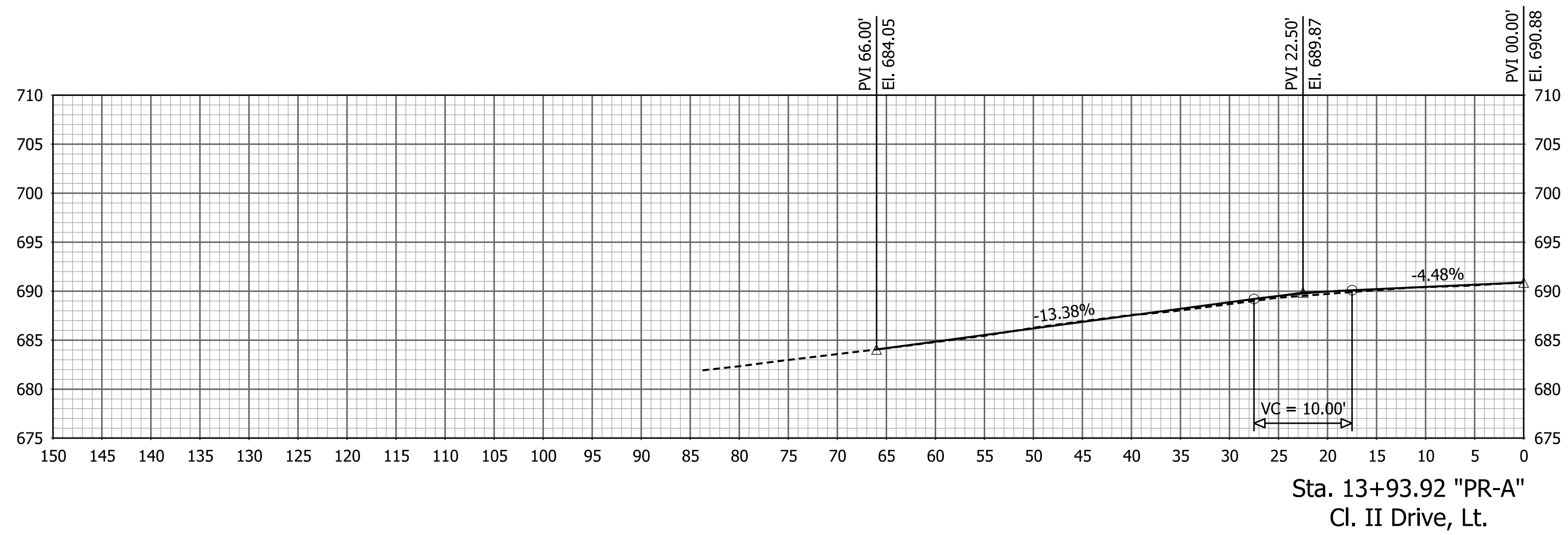
RECOMMENDED FOR APPROVAL _____	
DESIGNED: JSS	DRAWN: AED
CHECKED: DRD	CHECKED: BTH

INDIANA  
DEPARTMENT OF TRANSPORTATION

**CROSS SECTIONS  
LINE "PR-A"**

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 032-54-10370
VERTICAL SCALE 1" = 10'	DESIGNATION 1800075
SURVEY BOOK N/A	SHEETS 39 of 40
CONTRACT B-43793	PROJECT 1800075

PATH AND FILENAME: V:\Projects\ANY\K5\36243\CADD\MSTN\1800075\Sheet Drawings\1800075\_Sht Driveway\Profile.dgn  
 MODEL NAME: Sheet 01  
 DATE PLOTTED: 6/22/2023  
 TIME PLOTTED: 9:45:15 AM



RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
DESIGNED: JSS _____	DRAWN: AED _____		
CHECKED: DRD _____	CHECKED: BTH _____		

INDIANA DEPARTMENT OF TRANSPORTATION	
DRIVE PROFILES	

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 032-54-10370
VERTICAL SCALE 1" = 10'	DESIGNATION 1800075
SURVEY BOOK N/A	SHEETS 40 of 40
CONTRACT B-43793	PROJECT 1800075