

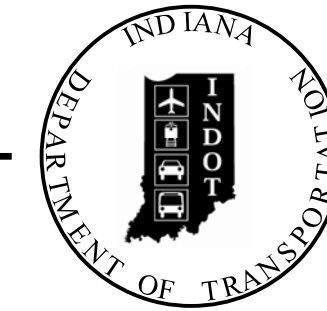
PROJECT	DESIGNATION
1900176	1900176
CONTRACT	BRIDGE FILE
B-42240	340-11-10492

STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
340-11-10492	Precast Concrete Three-Sided Structure	36'-0" Span x 12'-0" Rise Skew: None	PURDY RUN	438+82.50 Line "A"

KIN DESIGNATION NUMBERS	
1900339	SMALL STRUCTURE REPLACEMENT on S.R. 46
2000877	SMALL STRUCTURE MAINTENANCE AND REPAIR on U.S. 40

LEAD DESIGNATION NUMBERS	
1900176	BRIDGE REPLACEMENT on S.R. 340 over PURDY RUN

INDIANA DEPARTMENT OF TRANSPORTATION



BRIDGE PLANS

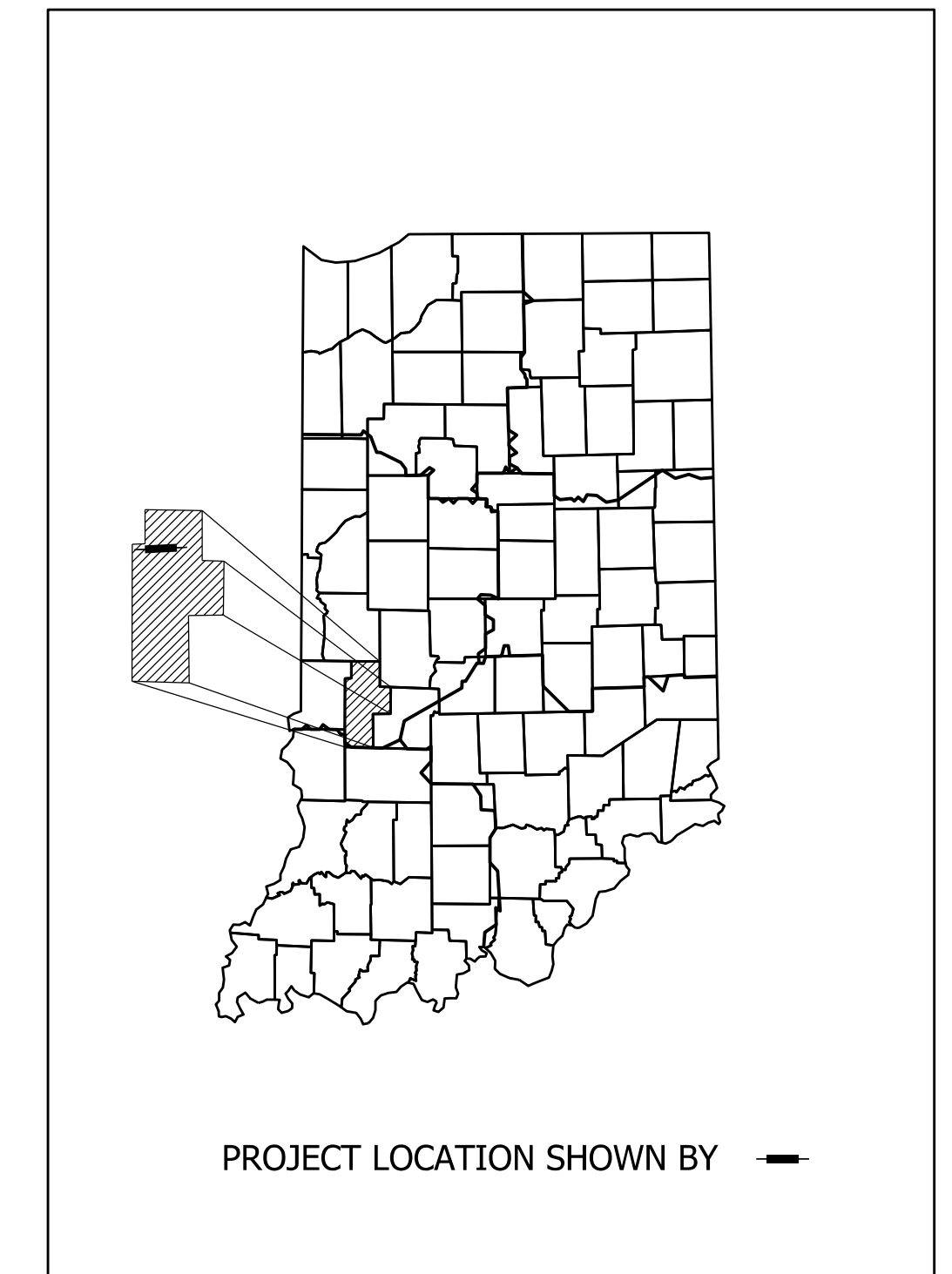
FOR SPANS OVER 20 FEET

ROUTE: S.R. 340 AT: RP 2+00

PROJECT NO. 1900176 P.E.
1900176 R/W
1900176 CONST.

Bridge Replacement on SR 340 over Purdy Run,
Located 2.09 Miles East of W. U.S. 40 Jct. in Section 5,
T-12-N, R-7-W, Posey Township, Clay County, Indiana.

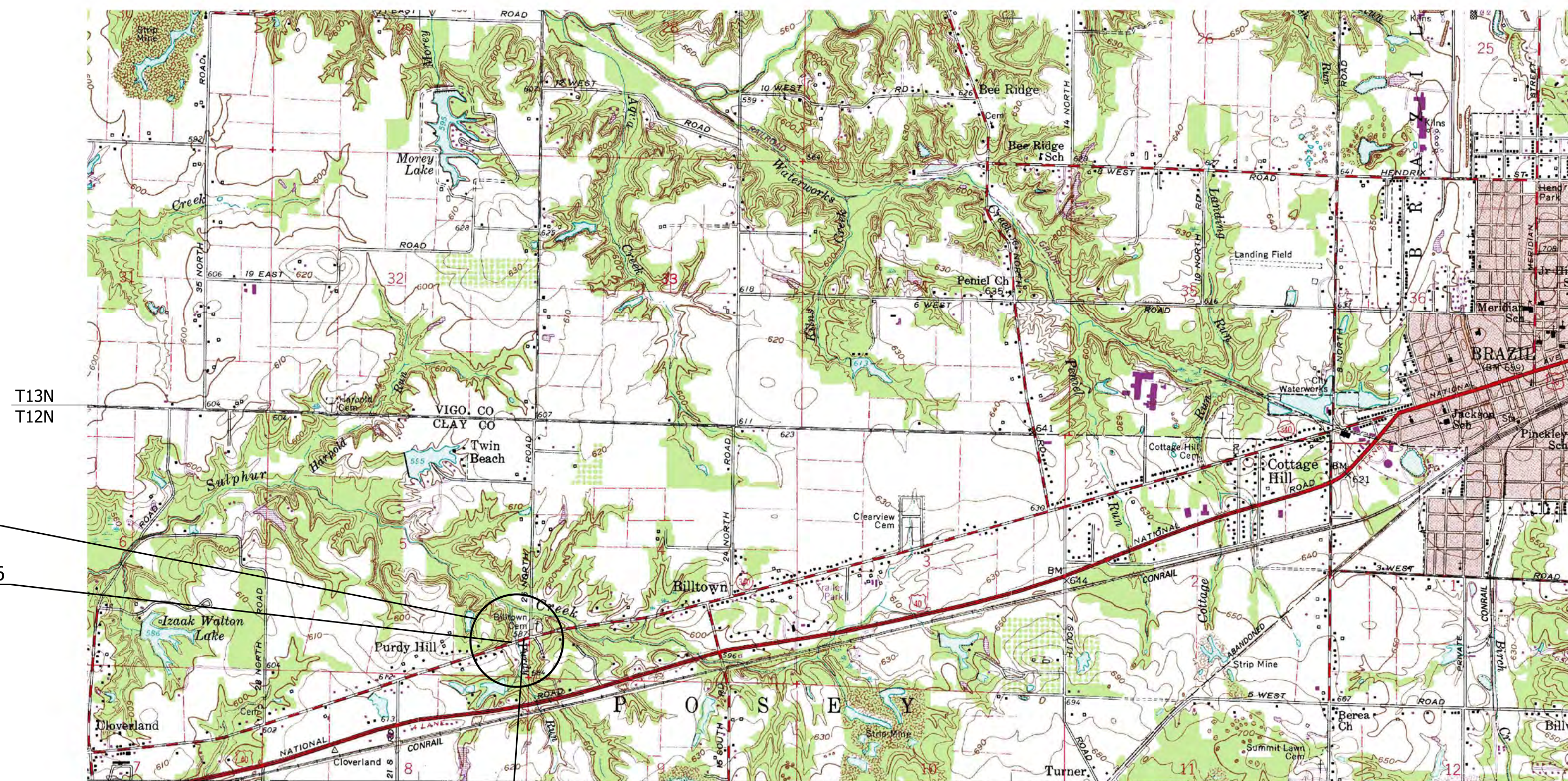
TRAFFIC DATA		
A.A.D.T. (2024)		1,565 V.P.D.
A.A.D.T. (2044)		1,565 V.P.D.
D.H.V (2044)		167 V.P.H.
DIRECTIONAL DISTRIBUTION		55.97 % EB
TRUCKS (2044)		1.92% A.A.D.T. 1.20% D.H.V.
DESIGN DATA		
DESIGN SPEED		40 M.P.H.
PROJECT DESIGN CRITERIA		3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION		STATE COLLECTOR
RURAL/URBAN		RURAL
TERRAIN		LEVEL
ACCESS CONTROL		NONE



LATITUDE: 39°30'28.08" N LONGITUDE: 87°12'05.29" W

BRIDGE LENGTH:	0.008	MI.
ROADWAY LENGTH:	0.029	MI.
TOTAL LENGTH:	0.037	MI.
MAX. GRADE:	-5.20%	%

HUC: 05120111030060

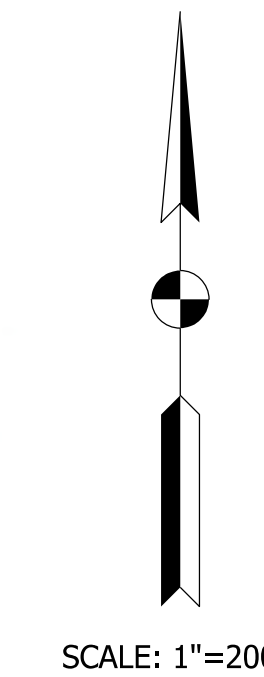


PROJECT LOCATION
STRUCTURE 340-11-10492
STA. 438+82.50 Line "A"

BEGIN PROJECT NO. 1900176
STA. 437+84.14 LINE "A"

END PROJECT NO. 1900176
STA. 439+80.86 LINE "A"

VICINITY MAP
Clay County
Posey Township



STAGE 2 PLANS
Feb. 17, 2023

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2020
TO BE USED WITH THESE PLANS.

PATH AND FILENAME: V:\Projects\ANY\K5\059747.000\CADD\MSTN\1900176\Sheet Drawings\1900176_Sht Title.dgn
MODEL NAME: Title01
DATE PLOTTED: 2/17/2023
TIME PLOTTED: 9:52:38 AM



PLANS PREPARED BY:	CHA CONSULTING, INC.	(317) 786-0461 PHONE NUMBER
CERTIFIED BY:		DATE
APPROVED FOR LETTING:	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

BRIDGE FILE	340-11-10492
DESIGNATION	1900176
SURVEY BOOK	SHEETS
CONTRACT	PROJECT
B-42240	1900176

UTILITIES

ELECTRIC

Duke Energy
Cindy Rowland
100 S. Mill Creek Rd.
Noblesville, IN 46062
317-776-5341
cindy.rowland@duke-energy.com

GAS/PIPELINE

Vectren (North)
16000 Allisonville Rd.
Noblesville, IN 46061
812-491-4765
publicproject@centerpointenergy.com

TELECOMMUNICATIONS

New Wave Communications
Bart Kotter
102 North 5th St.
Vincennes, IN 47591
812-887-8996
bart.kotter@newwavecom.com

Frontier
Joe Sarll
8001 West Jefferson Blvd.
Fort Wayne, IN 46804
260-461-3324
utilitycordreg@ftr.com

GENERAL NOTES

All earth shoulders, median areas, and cut and fill slopes shall be plain or mulch seeded except where sodding is specified.

This set of plans shall not be construed to be a property replacement survey. Where apparent property lines, owners, or section corner information is shown it is based upon physical evidence or testimony.

The topography information for this project was supplied by CeCon. Attempts have been made to periodically update portions of this project. However, the design consultant does not warrant the accuracy of this data and advises the contractor to field verify all information.

The Vertical Datum Used For The Project Is N.A.V.D. Of 1988. For Additional Information On The Vertical And Horizontal Datums, Refer To The Survey Field Books On File With The INDOT Records Section And Provided To The Contractor Through The Contract Services.

INDEX

SHEET NO.	SUBJECT
1	TITLE
2	INDEX
3	TYPICAL CROSS SECTIONS
4	PLAT NO. 1
5-6	LOCATION CONTROL ROUTE SURVEY
7	MAINTENANCE OF TRAFFIC
8	PLAN AND PROFILE/LAYOUT
9	TEMPORARY EROSION CONTROL DETAIL
10-11	GENERAL PLAN
12-13	MISCELLANEOUS TABLES
14-19	CROSS SECTIONS
20	DRIVE PROFILES

REVISIONS

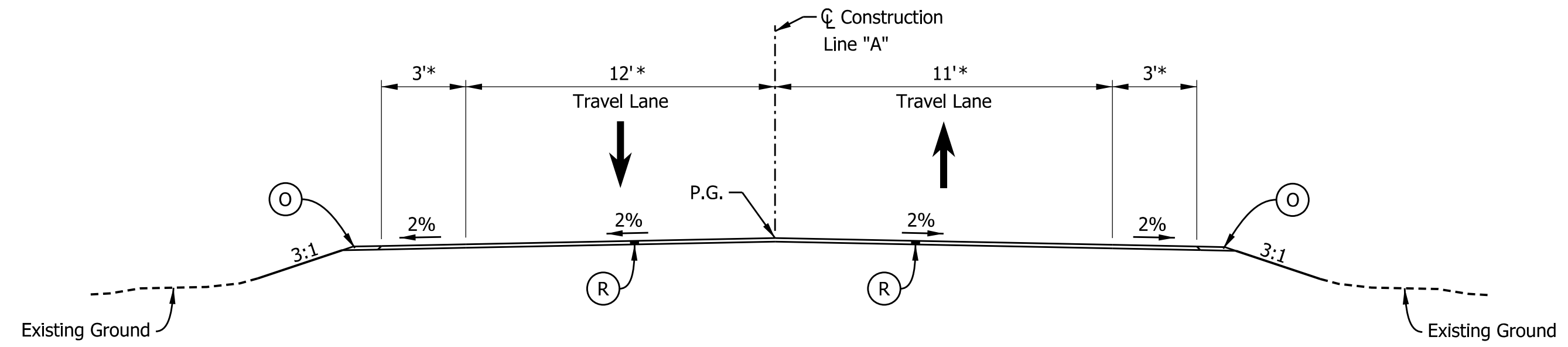
SHEET NO.	DATE	REVISED

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DESIGNED: KAB _____	DRAWN: PCR _____
CHECKED: BJA _____	CHECKED: KAB _____

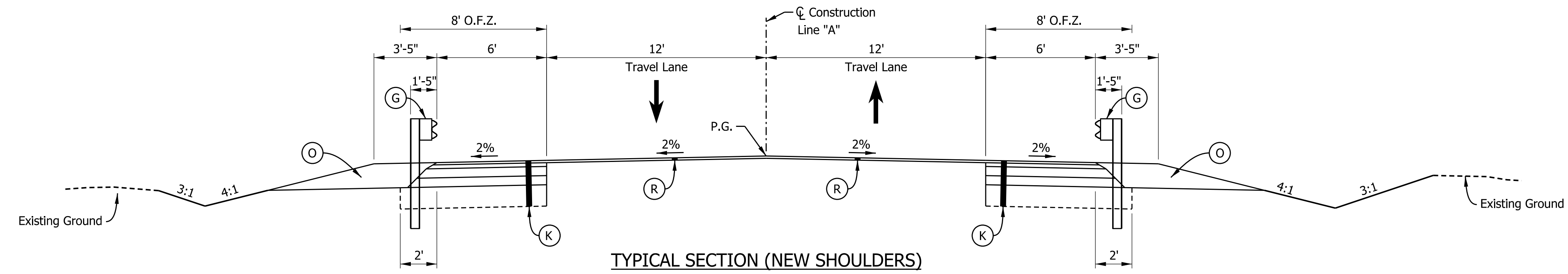
INDIANA DEPARTMENT OF TRANSPORTATION
INDEX

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	340-11-10492
	DESIGNATION
	1900176
SURVEY BOOK	SHEETS
CONTRACT	2 of 20
B-42240	PROJECT
	1900176

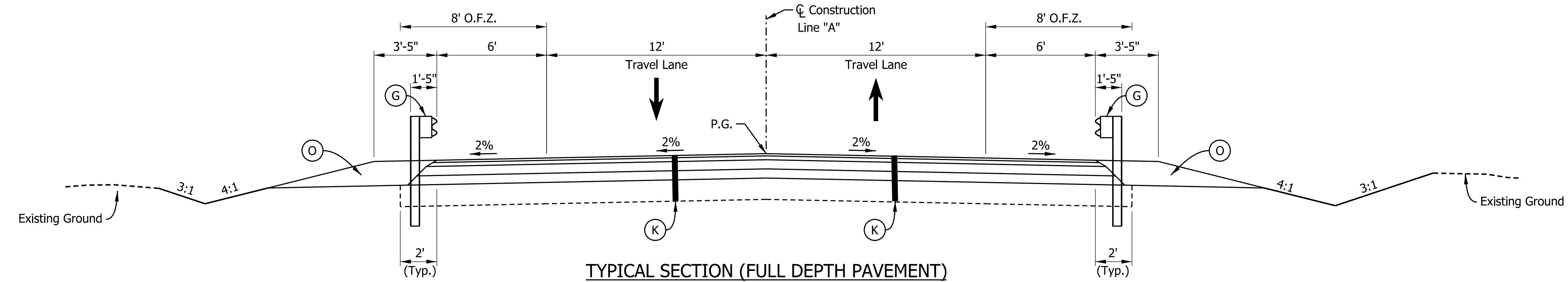
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 TIME PLOTTED: 9:52:57 AM



TYPICAL INCIDENTAL CONSTRUCTION SECTION
 Sta. 436+58.82 To Sta. 437+84.14 "A"
 Sta. 439+80.86 To Sta. 440+66.89 "A"



TYPICAL SECTION (NEW SHOULDERS)
 Sta. 437+84.14 To Sta. 438+50.00 "A"
 Sta. 439+15.00 To Sta. 439+80.86 "A"



TYPICAL SECTION (FULL DEPTH PAVEMENT)
 Sta. 438+50.00 To Sta. 439+15.00 "A"

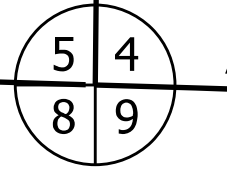
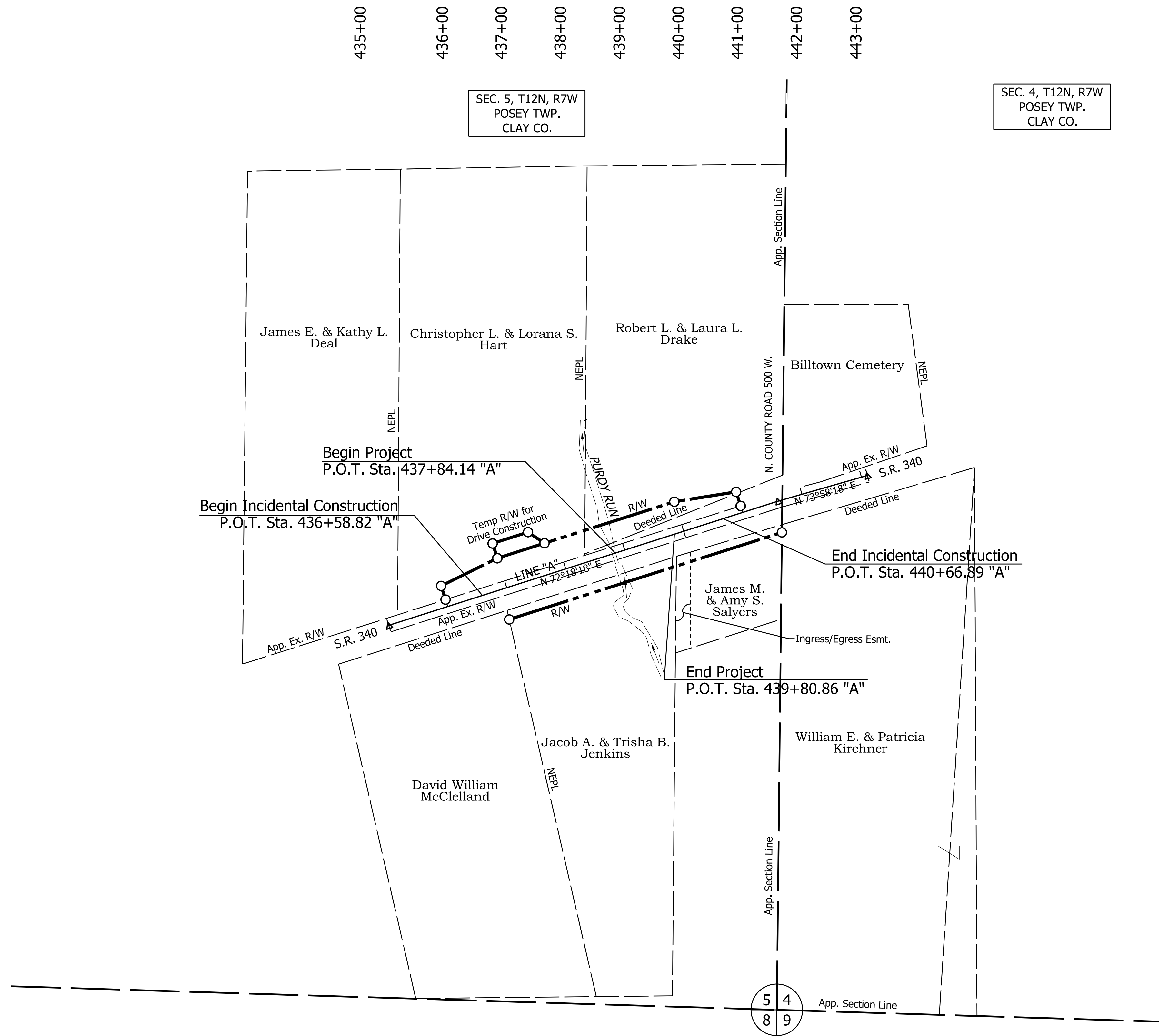
LEGEND		
(K) Full Depth HMA Pavement (Assumed) 165 lbs/sys QC/QA HMA, 3, 64, Surface, 9.5 mm on 275 lbs/sys QC/QA HMA, 3, 64, Intermediate, 19.0 mm on 330 lbs/sys QC/QA HMA, 3, 64, Base, 19.0 mm on 330 lbs/sys QC/QA HMA, 3, 64, Base, 19.0 mm on (Provide Tack Coat between HMA layers) Subgrade Treatment, Type 1C	(R) Transition Milling (2" Max.) and Overlay 165 lbs/sys QC/QA HMA, 3, 64, Surface, 9.5 mm on As Required, 275 lbs/sys QC/QA HMA, 3, 64, Intermediate, 19.0 mm	O.F.Z. = Obstruction Free Zone * = Match Existing
(O) Variable Depth Compacted Aggregate No. 53	(G) Guardrail, MGS W-Beam	

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
DESIGNED: NAZ	DRAWN: TPH		
CHECKED: BJA	CHECKED: NAZ		

INDIANA DEPARTMENT OF TRANSPORTATION	
TYPICAL CROSS SECTIONS	

HORIZONTAL SCALE 1/4" = 1'-0"	BRIDGE FILE 340-11-10492
VERTICAL SCALE	DESIGNATION 1900176
SURVEY BOOK	SHEETS 3 of 20
CONTRACT B-42240	PROJECT 1900176

PATH AND FILENAME: V:\Projects\ANY\K5\059747.000\CADD\MSTW\1900176\Sheet Drawings\1900176_Sht Plat 1.dgn
 MODEL NAME: Plat01
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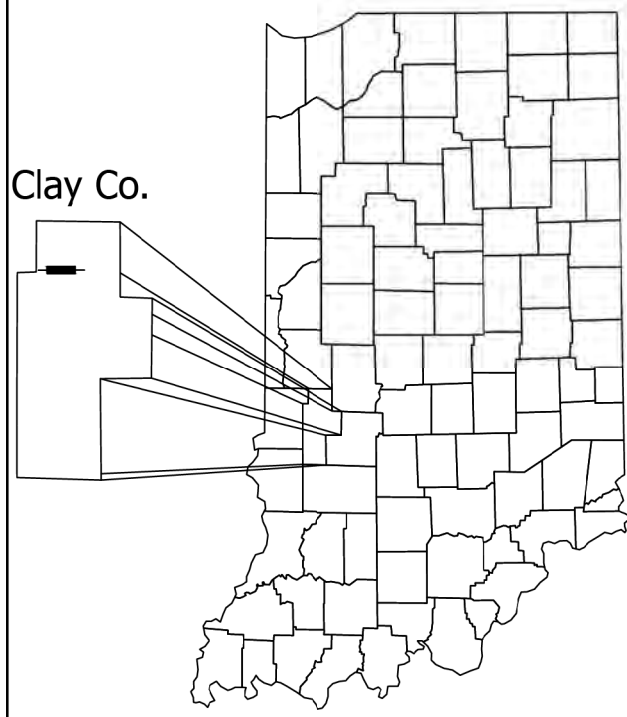
RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
DESIGNED: NAZ _____	DRAWN: TPH _____		
CHECKED: BJA _____	CHECKED: NAZ _____		

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAT NO.1

HORIZONTAL SCALE	BRIDGE FILE
1" = 100'	340-11-10492
VERTICAL SCALE	DESIGNATION
N/A	1900176
SURVEY BOOK	SHEETS
	4 of 20
CONTRACT	PROJECT
B-42240	1900176

In Association with : **CHA**

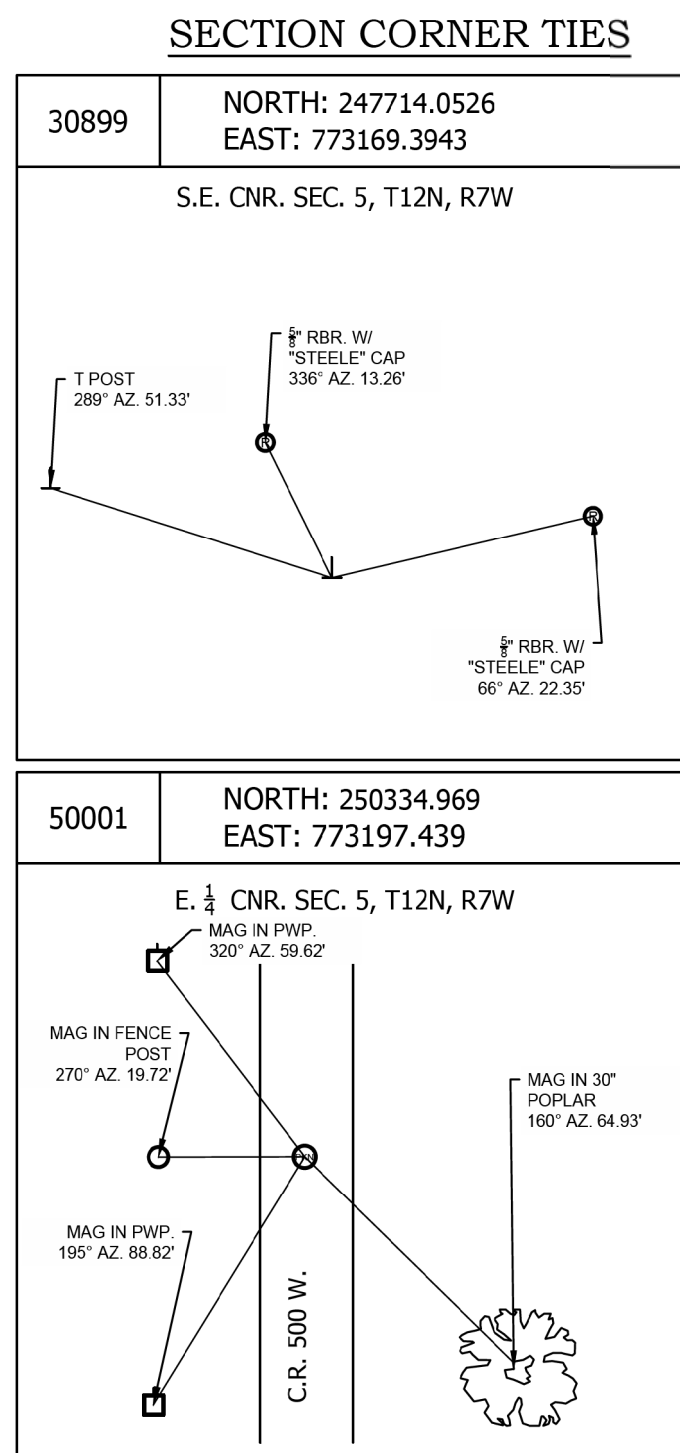


— = Project location
STATE MAP
(NOT TO SCALE)

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.

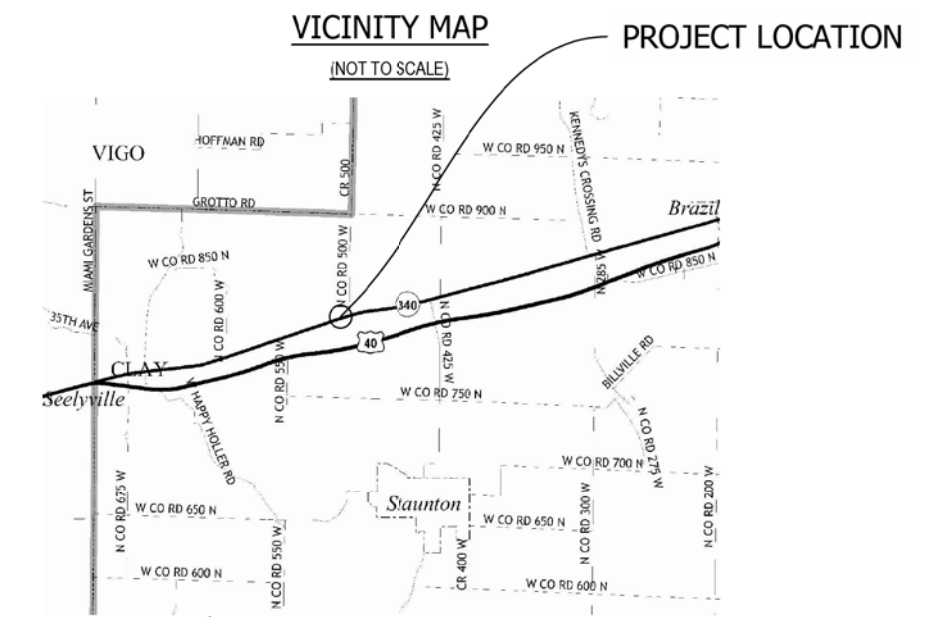
Field Work Date Notes
"Survey Started" date and "Survey Completed" date shown below indicate the first and last dates field work was performed on this project. It does not represent a continuous time span of work for this project. Field work was intermittently stopped and re-started as necessary due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

Easement Note
Location of any easements shown on this plat are based on the last/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 in no way represent all possible easements that may be recovered as a result of an exhaustive title search.



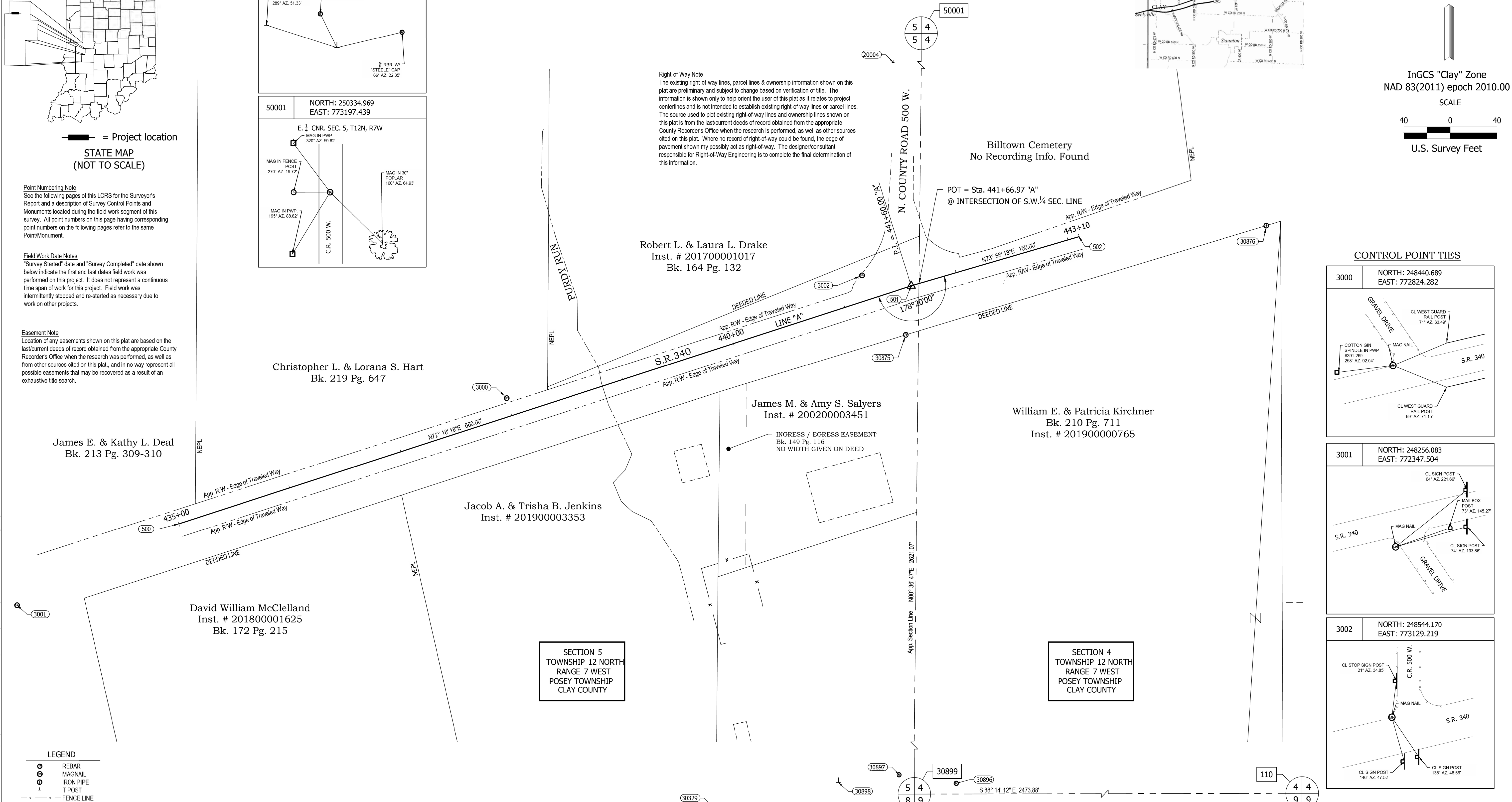
LOCATION CONTROL ROUTE SURVEY

FOR THE INDIANA DEPARTMENT OF TRANSPORTATION
STATE ROAD 340 OVER PURDY RUN DES. # 1900176
POSEY TOWNSHIP, CLAY COUNTY, INDIANA

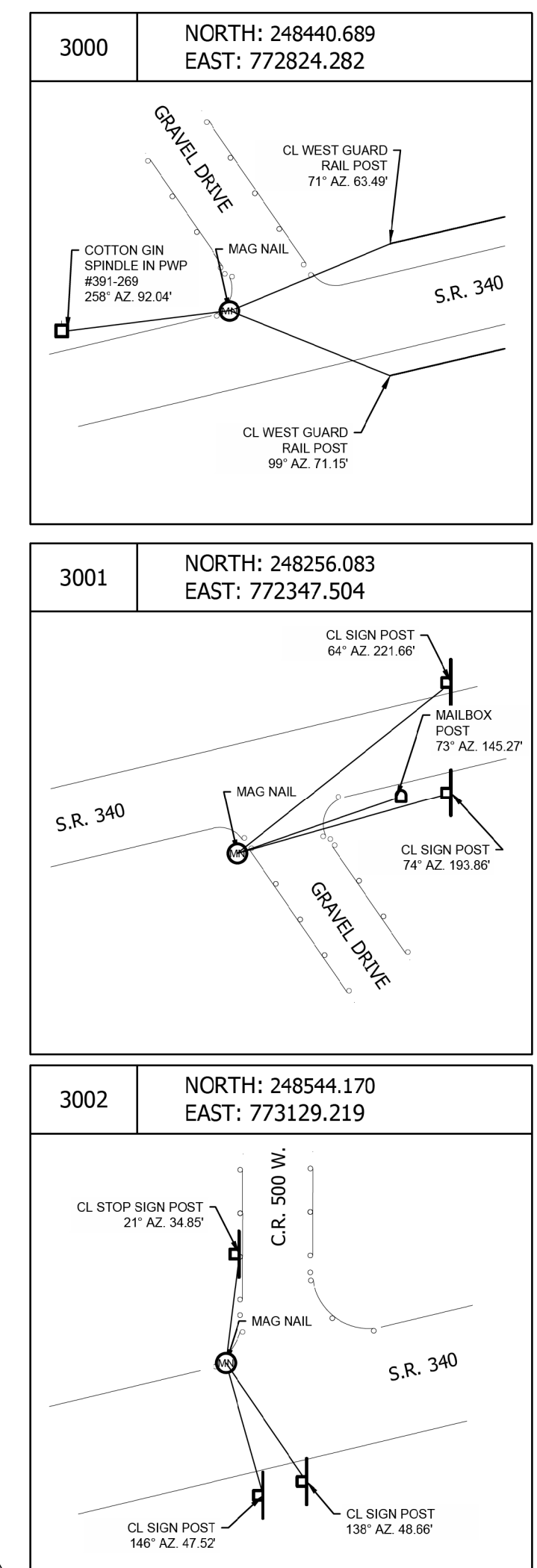


InGCS "Clay" Zone
NAD 83(2011) epoch 2010.00
SCALE
40 0 40
U.S. Survey Feet

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.



CONTROL POINT TIES



LEGEND

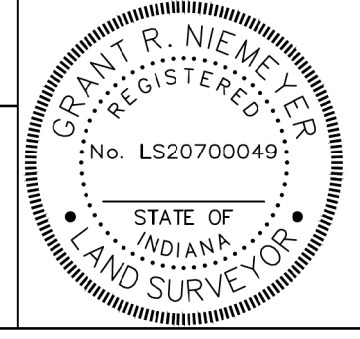
- REBAR
- MAGNAIL
- IRON PIPE
- ⊥ T POST
- - - FENCE LINE

S:\Projects\20-016 A-Des. 1900176-SR 340 over Purdy-Run-CHA\LCRS_RW_Boundary\Working Drawings\20-016A LCRS Working.dwg

SURVEY STARTED	
06-01-2020	
SURVEY COMPLETED	
06-12-2020	
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
Grant R. Niemeyer 07-15-2020
PROFESSIONAL SURVEYOR
DRAWN: WLH CHECKED: GRN

INDIANA DEPARTMENT OF TRANSPORTATION
LOCATION CONTROL ROUTE SURVEY
S.R. 340 CLAY COUNTY

SCALE	BRIDGE FILE
1"=40'	N/A
COUNTY	DESIGNATION
CLAY	1900176
SURVEY BOOK	SHEETS
N/A	5 of 20
CONTRACT	PROJECT
N/A	20-016A(CECon)

SURVEY REPORT

Intent of Survey:

Civil Engineering Consultants Inc., (hereinafter referred to as CECon) is a sub-consultant, providing Land Surveying Services for CHA Consulting Inc. (Client), these services will be ultimately used for roadway improvements and / or small structure design, for the Indiana Department of Transportation, hereafter referred to as INDOT. The purpose of this survey was 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"). This survey is NOT to be considered a boundary survey (as defined in Title 865 as an "original survey" or a "retracement survey") and should therefore not be treated as such. This survey will be used for multiple facets of this project, including but not limited to the following: horizontal control, right of way engineering, right of way acquisition, and a basis of alignments for the design engineer. In addition, a design survey (topographic survey) was performed for the client, this survey is intended to be used as a foundation for the design of this project, both for road and bridge improvements.

General Notes:

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.

General Description and Location:

CECon Project Number / Description: 20-016 A, S.R. 340 over Purdy Run, Clay County Indiana.

The project is located along S.R. 340 approximately 4.2 miles southwest of the nearest City of Brazil, Indiana. The project scope generally consists of the following Topographic and Route Survey limits, (starting from the center of the existing structure) approximately 400 feet northeasterly and 400 feet southwesterly of subject bridge over Purdy Run, with variable width limits.

Within parts of Sections 4 & 5 Township 12 North, Range 7 West, Posey Township, Clay County, Indiana.

Project Control and Basis of Bearings:

Unless noted otherwise, all bearings, distances, areas, and coordinates shown herein are based upon the Indiana Geospatial Coordinate System's (InGCS) "Clay" zone per NAD 83 (2011) epoch 2010.00 and are reported in U.S. Survey Feet and decimal parts thereof. The zone was developed to minimize the differences between ground-measured horizontal distances and the corresponding grid coordinate (map) distances within the counties bearing these zone names.

The InGCS "Clay" zone coordinates and associated metadata are listed to facilitate a seamless workflow between various geospatial industries (surveying, civil engineering, construction, environmental, GIS, etc.), to provide a means by which to enable the re-establishment of the survey lines, i.e. alignments (should any monuments on them be destroyed), and to provide a mechanism for the perpetuation of any boundary corner monuments included in this survey, e.g., USPLS, Grant, Donations, local subdivisions and/or tracts. To preserve the relative positional relationships of these surveyed lines and/or boundary corner monuments in future surveying, construction, maintenance, etc. activities, it is recommended to utilize the positions associated with the physical "Survey Network Control Points" listed in the "Reported Project Points Metadata Table" that were set and/or found during this survey.

Metadata:

InGCS "Clay" Zone Parameters
 Geometric Datum: NAD 83(2011) epoch 2010.00
 Projection Type: Transverse Mercator
 Central Meridian: 87°09'00" west longitude
 Central Meridian scale factor: 1.000024
 Latitude of Grid Origin: 39°09'00" north latitude
 False Northing: 36,000,000 m (118,110.00 U.S.Ft)
 False Easting: 240,000,000 m (787,400.00 U.S.Ft)

Control verification:

NGS Control Point Check-in
 Designation - Prairie City
 PID - KA1790

Published Coordinates (InGCS) Observed Coordinates Delta(Δ) Value
 Northing: 225,952.7266 U.S. Ft. Northing: 225,952.7369 U.S. Ft. +0.0103'
 Easting: 794,200.2397 U.S. Ft. Easting: 794,200.2116 U.S. Ft. -0.0281'

This monument is 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."

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.

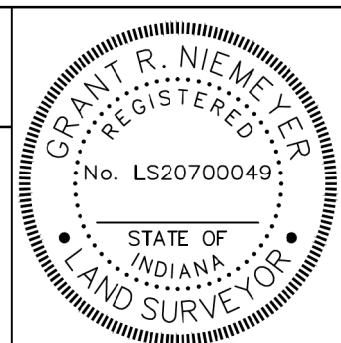
SURVEY STARTED		
6-1-2020		
SURVEY COMPLETED		
6-12-2020		
ROUTE PLAT SHEETS		
2	OF	2



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

 PROFESSIONAL SURVEYOR 7-15-2020

DRAWN: WLH CHECKED: GRN

INDIANA DEPARTMENT OF TRANSPORTATION

LOCATION CONTROL ROUTE SURVEY
S.R. 340 CLAY COUNTY

SCALE	BRIDGE FILE
N/A	N/A
COUNTY	DESIGNATION
CLAY	1900176
SURVEY BOOK	SHEETS
N/A	6 of 20
CONTRACT	PROJECT
N/A	20-016A(CECon)

Reference Plans / Surveys:

- State of Indiana Bridge Plans Project: No. F.A. No. 6 Section: A dated August 11, 1919, Station 438+82. Hereinafter referred to as the "1919 Plans".
- State of Indiana Highway Plans Project: No. 6 Section: A, National Old Trails Road dated 1919, Stations 218+66 to 607+81. Hereinafter referred to as the "Road Plans".
- Route Survey Plat for the Indiana Department of Transportation recorded in the Clay County Recorder's Office on May 14, 2002 as Instrument # 20020003089, Book 32 Page 1381. Hereinafter referred to as the "2002 Plat".
- State of Indiana Highway Plans Project, Project No. STP 5284 (011) Code 4228, Des. No. 9801810, dated September 24th, 2003.
- Parcel Plat for Gary Jenkins recorded in the Clay County Recorder's Office on March 22, 2009 as Instrument # 201900000765, Book 178 Page 922.
- Cash, Waggoner and Associates, Survey Recorded March 3rd, 2019 as Instrument Number 201900000765.

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 in 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. The within plat and survey were prepared without benefit of current evidence of source of title (title work) for the area and are therefore subject to any statement of facts revealed by examination of such documents. 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.

"Apparent R/W-Edge of traveled way": As reflected / labeled herein, the apparent right of way lines is based on the existing edge of the traveled way. INDOT Right of way grants, was recovered and reviewed. The grants appear to be signed circa 1938, but were recorded in July of 1974, and are deemed invalid. Therefore, the existing edge of traveled way is used as the road boundary for this survey.

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

The recovery of the corners within Section 4 and 5 Township 12 North, Range 7 West are worthy of mention and are discussed as follows:

Point No. 30899: a "T"-post is found to be representing the apparent common corner of the southeast corner Section 5, southwest corner of Section 4, northeast corner of Section 8 and the northwest corner of Section 9. In addition, this point was verified as being point (4), as reflected on a survey performed by Cash, Waggoner and Associates, recorded March 3rd, 2019 as Instrument Number 201900000765, in the office of the Clay County Recorder's office. This point is No reference ties were provided by the Clay County Surveyor for this point. However, new ties (via CECon Survey) for this point are shown herein for future reference.

Point No. 50001: a "PK-nail" found to be flush with surface, representing the apparent common corner of the northwest corner of the southwest quarter Section 4. This point was verified as being point (5), as reflected on a survey performed by Cash, Waggoner and Associates, recorded March 3rd, 2019 as Instrument Number 201900000765, in the office of the Clay County Recorder's office. In addition, survey ties were verified with using the "2002 Plat" as performed by INDOT. See plat herein for verified referenced ties for this point.

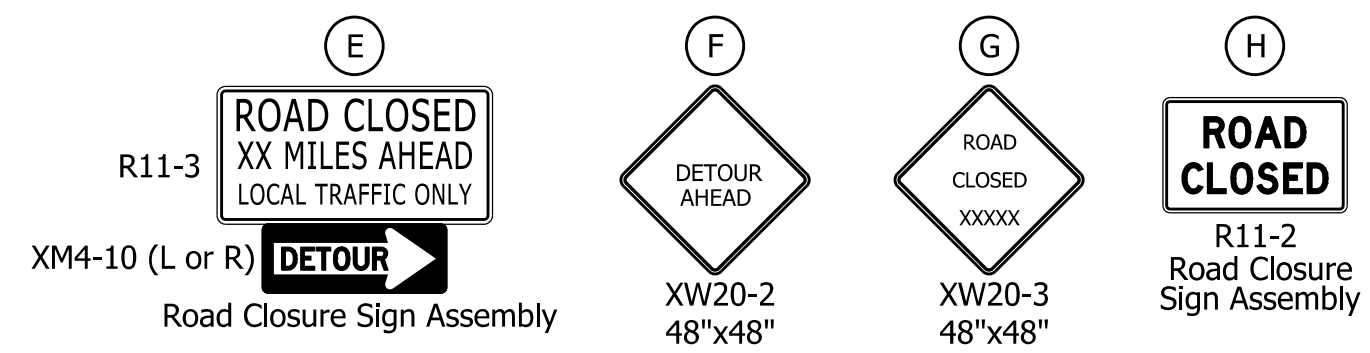
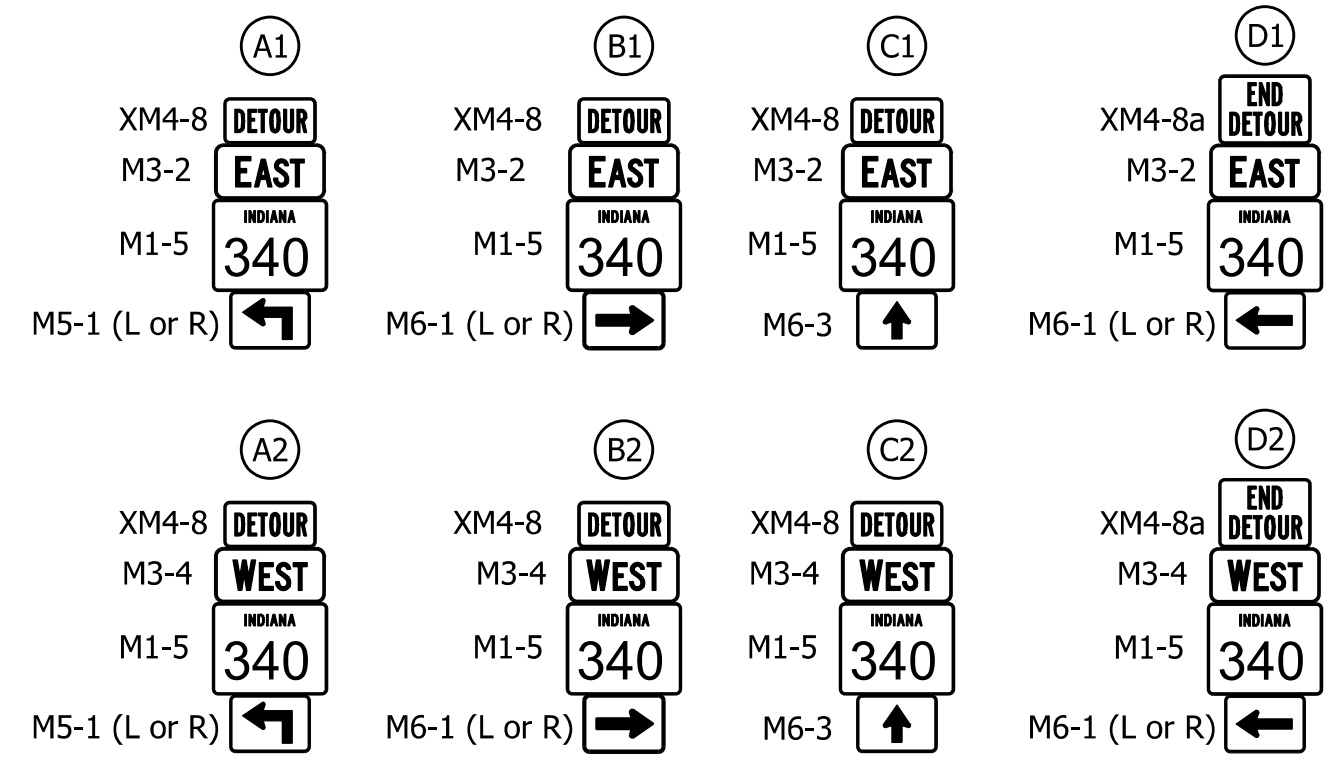
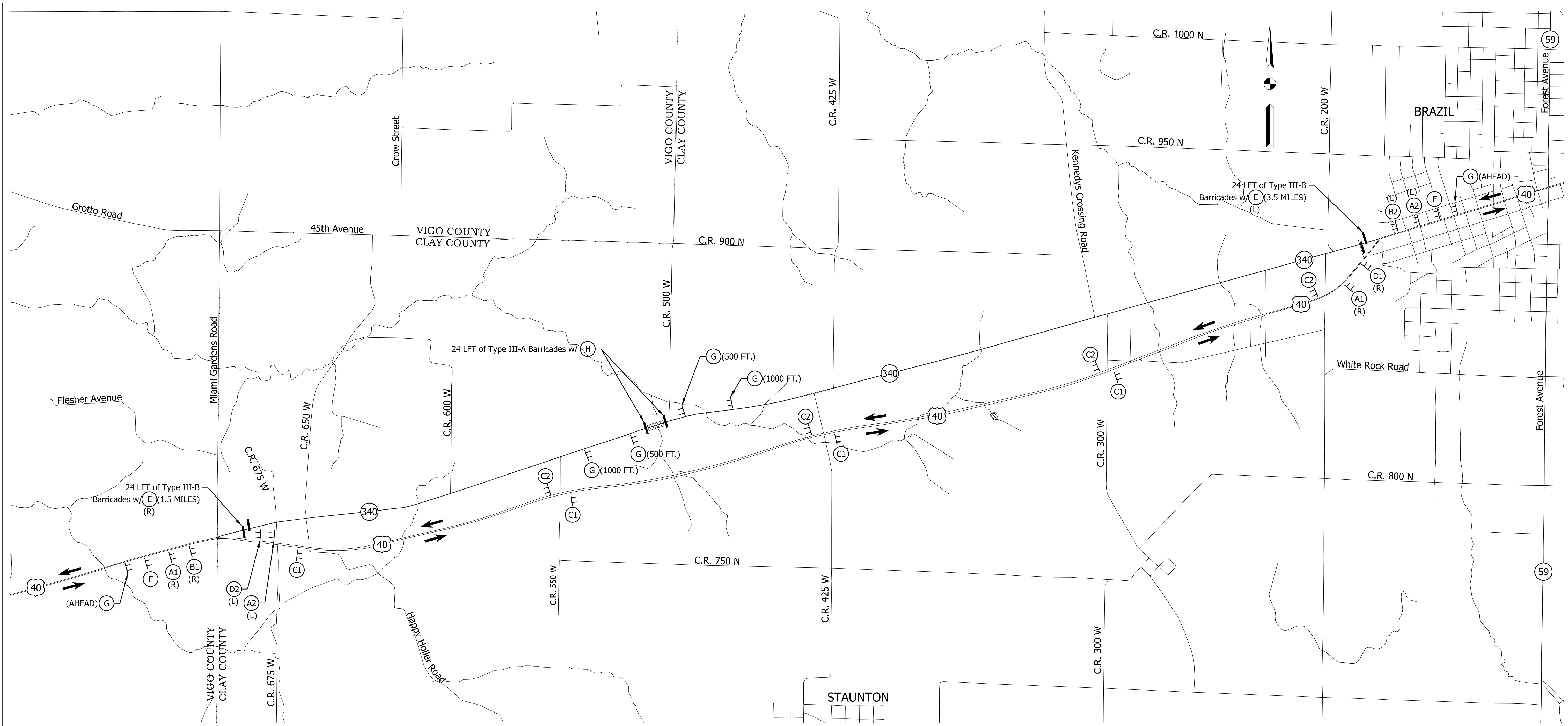
Point No. 30898: a "U"-post was found 1.5 ft above grade in good condition. This post is found to be approximately 49 feet westerly of point 30899 (southwest corner of Section 4). This point (30899) was located as being the southwest corner of Section 4, per the INDOT "2002 Plat", however, the undersigned disagrees with this location, upon further review and field investigations this point was not used as representing the southwest corner of Section 4.

Point No. 110: A calculated position based on the INDOT "2002 Plat", representing the southeast corner of the southwest quarter of Section 4.

REPORTED PROJECT POINTS METADATA TABLE											
GEOMETRIC DATUM: NAD83(2011) EPOCH 2010.00											
GRID SYSTEM-ZONE: InGCS - Clay											
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
110	247637.9250	775642.1058	39°30'20.130222"	87°11'30.005106"				SOUTH 1/4 CNR. SEC. 12,T12N,7W	N/A	CALC'D	N/A
500	248334.7648	772542.7330	39°30'27.001011"	87°12'09.551531"	435+00.00	0.00'	A	P.O.T. 435+00.00 LINE "A"	N/A	CALC'D	N/A
501	248535.3706	773171.5075	39°30'28.987142"	87°12'01.530956"	441+60.00	0.00'	A	P.I. 441+60.00 LINE "A"	N/A	CALC'D	N/A
502	248576.7873	773315.6763	39°30'29.397255"	87°11'59.691905"	443+10.00	0.00'	A	P.O.T. 443+10.00 LINE "A"	N/A	CALC'D	N/A
3000	248440.6889	772824.2821	39°30'28.049464"	87°12'05.960256"	438+00.42	15.34' Lt.	A	SURVEY NETWORK CONTROL POINT	MAGNAIL W/ "CECON CONTROL" TAG	SET	FLUSH
3001	248256.0834	772347.5042	39°30'26.222272"	87°12'12.041698"				SURVEY NETWORK CONTROL POINT	MAGNAIL W/ "CECON CONTROL" TAG	SET	FLUSH
3002	248544.1703	773129.2193	39°30'29.073875"	87°12'02.070542"	441+22.39	21.24' Lt.	A	SURVEY NETWORK CONTROL POINT	MAGNAIL W/ "CECON CONTROL" TAG	SET	FLUSH
20004	249102.9560	773160.8860	39°30'34.596496"	87°12'01.670525"	443+06.51	548.45' Lt.	A	PROPERTY EVIDENCE	T POST	FOUND	48" A.G.
30329	247757.6197	773005.1538	39°30'21.299749"	87°12'03.647720"	437+65.12	690.39' Rt.	A	PROPERTY CORNER	5/8" REBAR NO CAP	FOUND	FLUSH
30875	248494.1403	773166.8973	39°30'28.579640"	87°12'01.589479"	441+43.08	37.88' Rt.	A	PROPERTY CORNER	5/8" REBAR W/ "WILLIAM STEELE" CAP	FOUND	FLUSH
30876	248586.0959	773476.5034	39°30'29.490127"	87°11'57.640091"				PROPERTY CORNER	1/2" IRON PIPE	FOUND	FLUSH
30896	247722.9609	773189.8925	39°30'20.958245"	87°12'01.290600"	439+30.58	779.56' Rt.	A	PROPERTY EVIDENCE	5/8" REBAR W/ "WILLIAM STEELE" CAP	FOUND	FLUSH
30897	247726.1701	773164.0108	39°30'20.989819"	87°12'01.620817"	439+06.90	768.64' Rt.	A	PROPERTY EVIDENCE	5/8" REBAR W/ "WILLIAM STEELE" CAP	FOUND	FLUSH
30898	247730.3843	773120.7271	39°30'21.031227"	87°12'02.173055"	438+66.95	751.47' Rt.	A	PROPERTY EVIDENCE	STEEL T POST	FOUND	48" A.G.
30899	247714.0526	773169.3943	39°30'20.870092"	87°12'01.552049"	439+08.35	781.82' Rt.	A	S.E. CORNER, SEC.5,T12N,R7W	T POST	FOUND	FLUSH
50001	250334.9690	773197.4390	39°30'46.772603"	87°12'01.212948"				EAST 1/4 CNR. SEC. 5, T12N, R7W	PK NAIL	FOUND	FLUSH

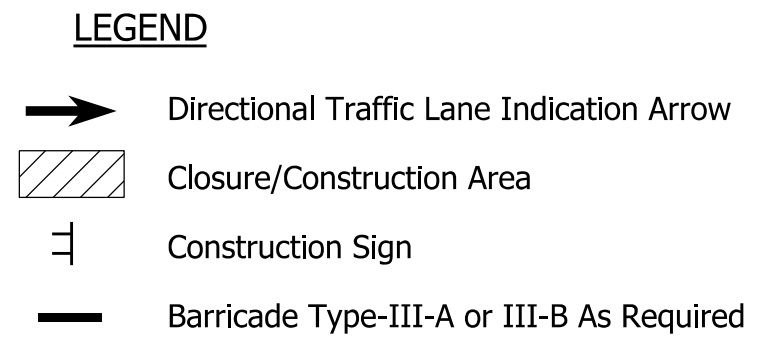
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 DATE PLOTTED: 2/17/2023
 TIME PLOTTED: 9:54:27 AM



ITEM DESCRIPTION	UNIT	QUANTITY
ROAD CLOSURE SIGN ASSEMBLY	EACH	4
DETOUR ROUTE MARKER ASSEMBLY	EACH	16
CONSTRUCTION SIGN, A	EACH	8
MAINTAINING TRAFFIC	LS	1
BARRICADE, III-A	LFT	48
BARRICADE, III-B	LFT	48

Sequence of Operations:
 1) Install Traffic Control Devices for Detour of SR 340.
 2) Detour thru traffic and construct project.



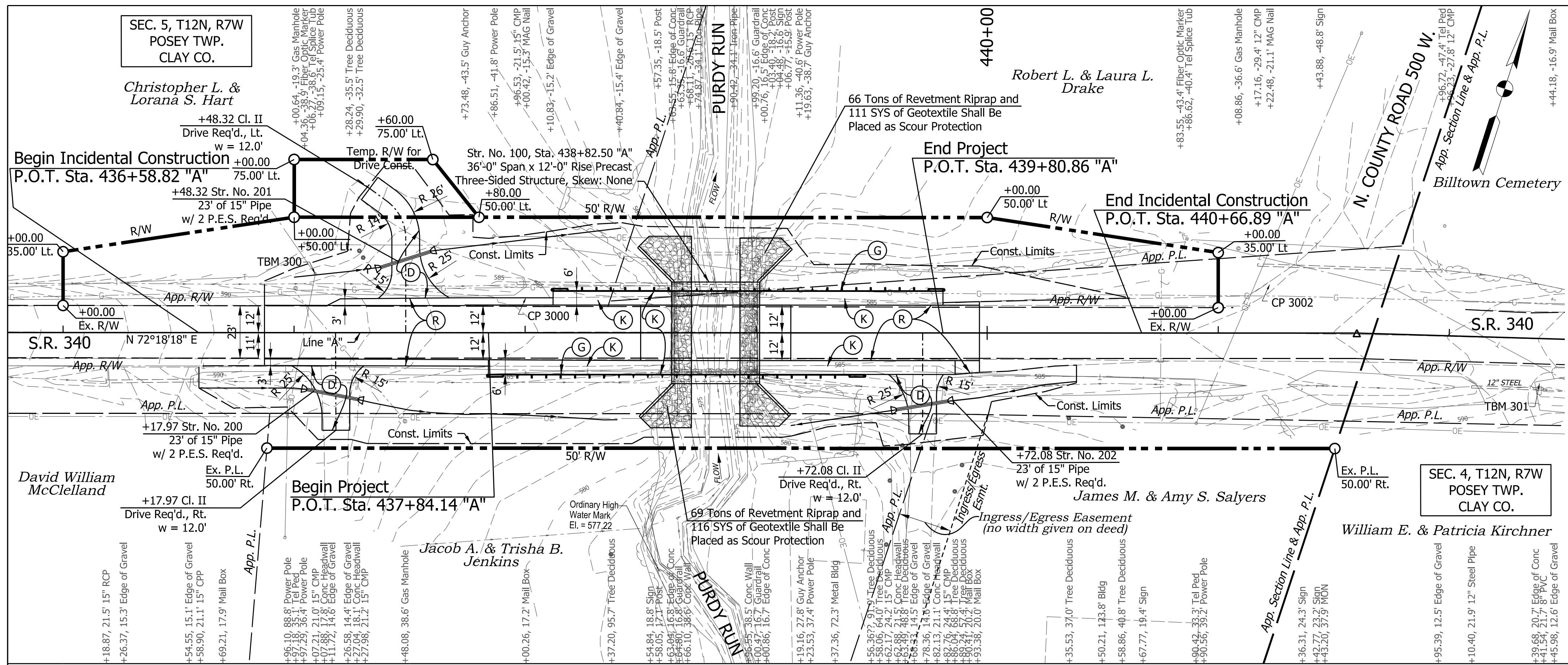
NOTES:
 1. Detour Route Marker Assemblies shall be provided according to Standard Drawing E 801-TCDDT-04.
 2. Type B Construction Warning Lights shall be used with all signs located on barricades. Type A Construction Warning Lights shall be used on all other construction signs.

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: KAB	DRAWN: JSS	
CHECKED: NAZ	CHECKED: KAB	

INDIANA DEPARTMENT OF TRANSPORTATION

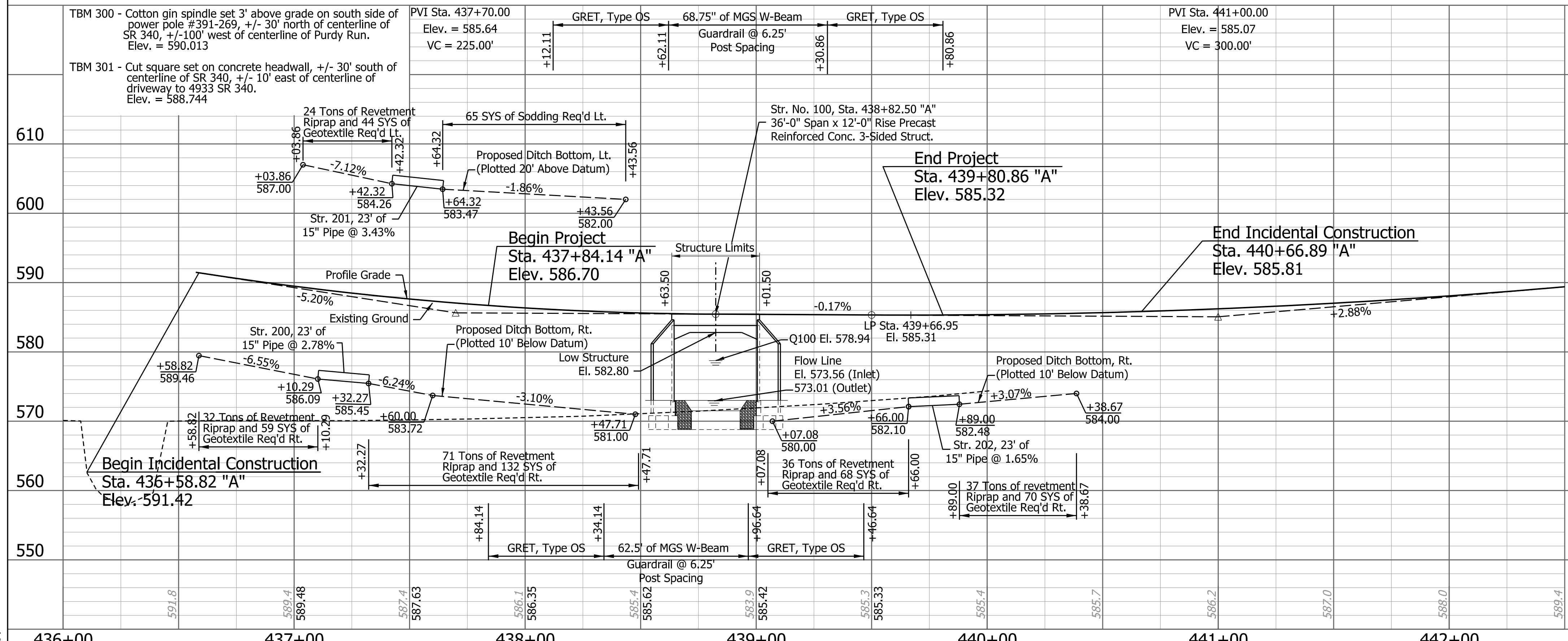
MAINTENANCE OF TRAFFIC DETOUR ROUTE

HORIZONTAL SCALE 1" = 1200'	BRIDGE FILE 340-11-10492
VERTICAL SCALE N/A	DESIGNATION 1900176
SURVEY BOOK	SHEETS 7 of 20
CONTRACT B-42240	PROJECT 1900176



NOTE TO REVIEWER:
Right of Way is Preliminarily Designed.

All Topo Notes Referenced to Line "A"
All R/W Described from Line "A"



EXISTING STRUCTURE
The Existing Structure (340-11-01639 B) was a steel bedstead bridge that was replaced in 1919 with a reinforced concrete channel beam bridge in 1980. The superstructure was replaced with adjacent box beams with a span of 35'-0" and 32'-0" clear roadway width. Existing structure is to be removed.

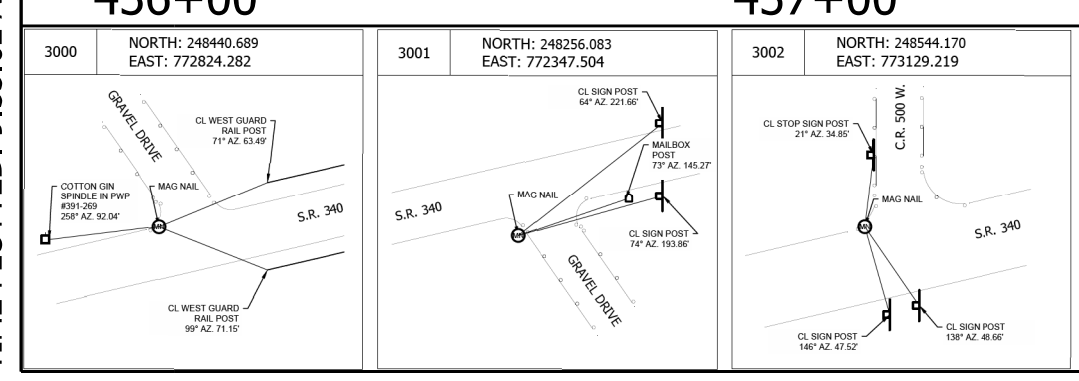
HYDRAULIC DATA

Waterway Opening Required Below Q100	164.10 sq ft
Waterway Opening Provided Below Q100	164.10 sq ft
Drainage Area =	1.62 sq mi
Design Discharge, Q100	950 cfs
Velocity	5.8 ft/s
Q100 Elev.	578.94 ft
Estimated Scour Elev.	571.43 ft
Backwater at Q100	0.25 ft
Existing Waterway Opening Below Q100	7.85 sq ft
Existing Backwater	0.41 ft
Low Structure Elev.	582.80 ft
Existing Low Structure Elev.	582.80 ft

EARTHWORK TABULATION

Fill + 25%	199.25 cys
Common Excavation	173.17 cys
Borrow	26.08 cys
Benching (Estimated)	0 cys

PRECAST REINFORCED CONCRETE THREE-SIDED STRUCTURE
36'-0" SPAN x 12'-0" RISE x 44'-0" LONG
0° SKEW
S.R. 340 OVER PURDY RUN
CLAY COUNTY



LEGEND

- (R) Transition Milling (2" Max.) and Overlay (Assumed) 165 lbs/sy QC/QA HMA, 3, 64, Surface, 9.5 mm on As Required, 275 lbs/sy QC/QA HMA, 3, 64, Intermediate, 19.0 mm
- (D) HMA for Approaches, Type B consisting of 165#/SYD HMA Surface Type B, on 275#/SYD HMA Intermediate Type B, on 6" Compacted Aggregate No. 53 on Subgrade Treatment Type II
- (K) Full Depth HMA Pavement (Assumed) 165 lbs/sy QC/QA HMA, 3, 64, Surface, 9.5 mm on 275 lbs/sy QC/QA HMA, 3, 64, Intermediate, 19.0 mm on 330 lbs/sy QC/QA HMA, 3, 64, Base, 19.0 mm on 330 lbs/sy QC/QA HMA, 3, 64, Base, 19.0 mm on Subgrade Treatment, Type IC
- (G) Guardrail, MGS W-Beam, Single Faced

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER	DATE
NAZ	

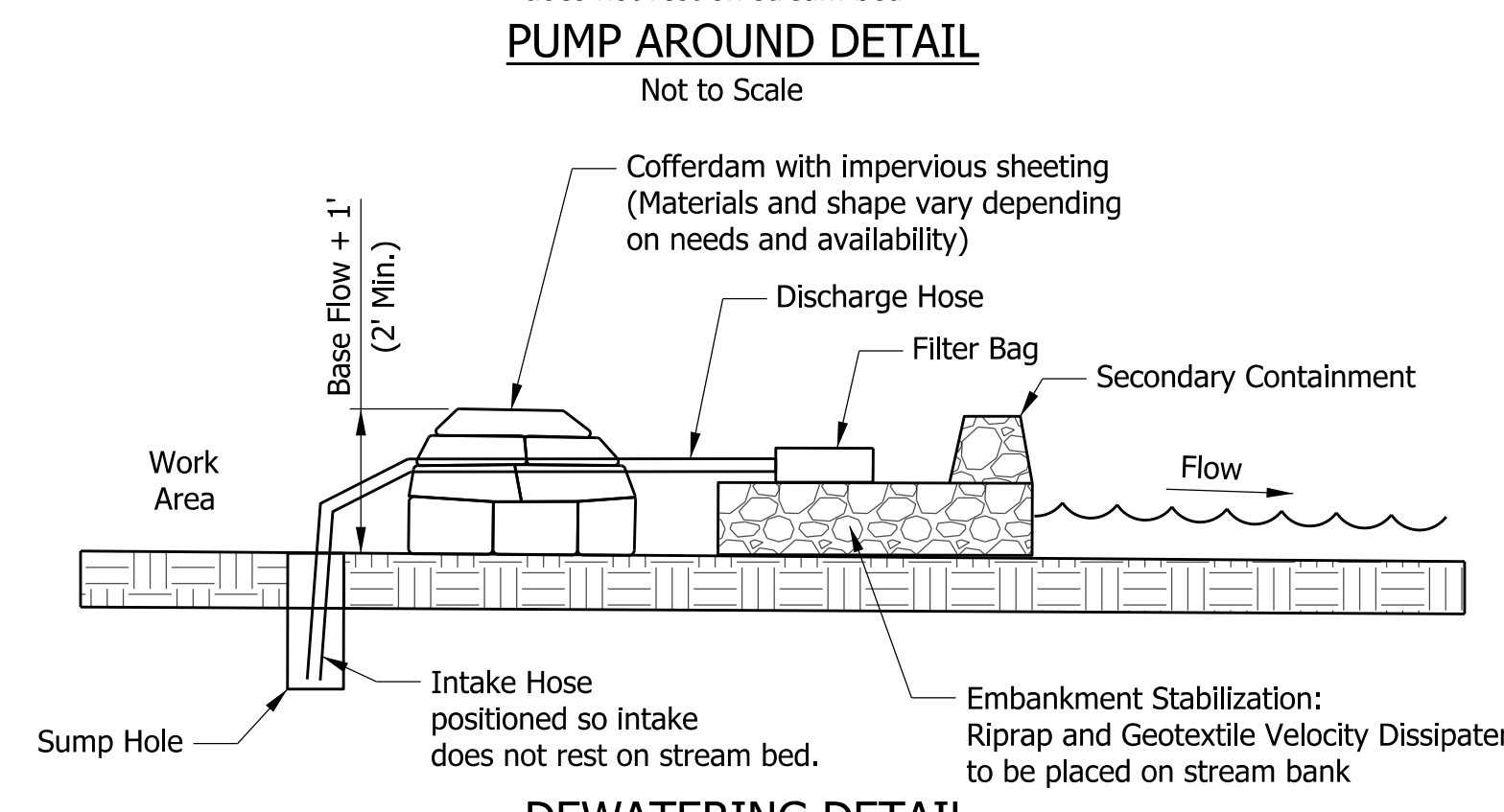
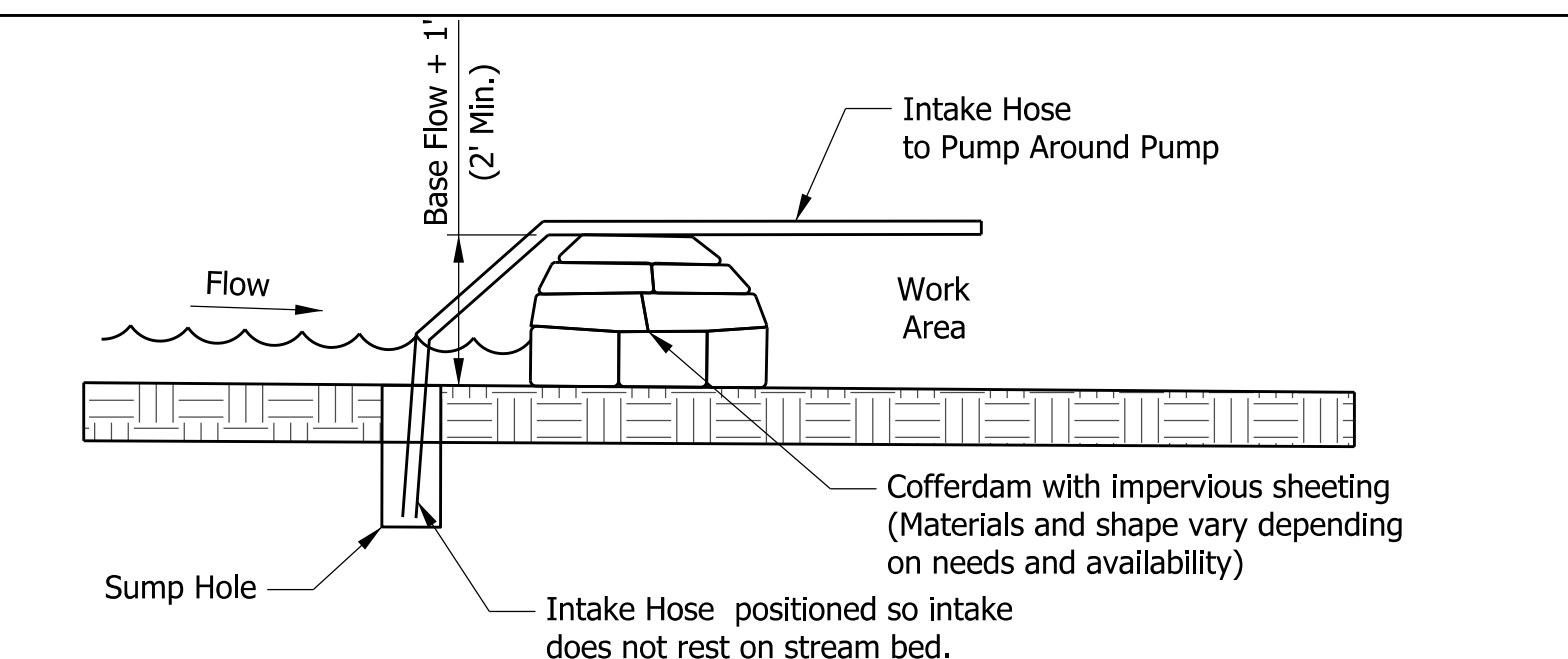
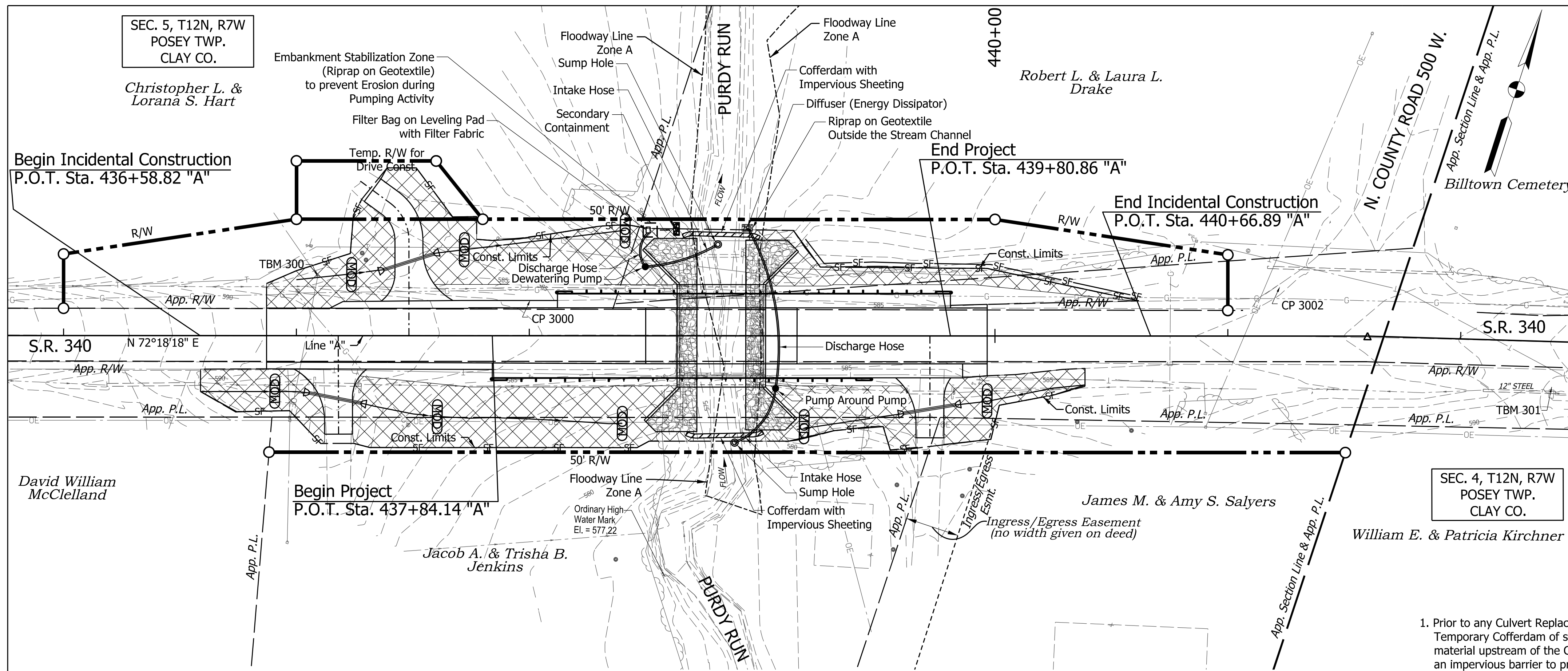
DESIGNED: NAZ DRAWN: TPH
CHECKED: BJA CHECKED: NAZ

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE/LAYOUT LINE "A" - S.R. 340

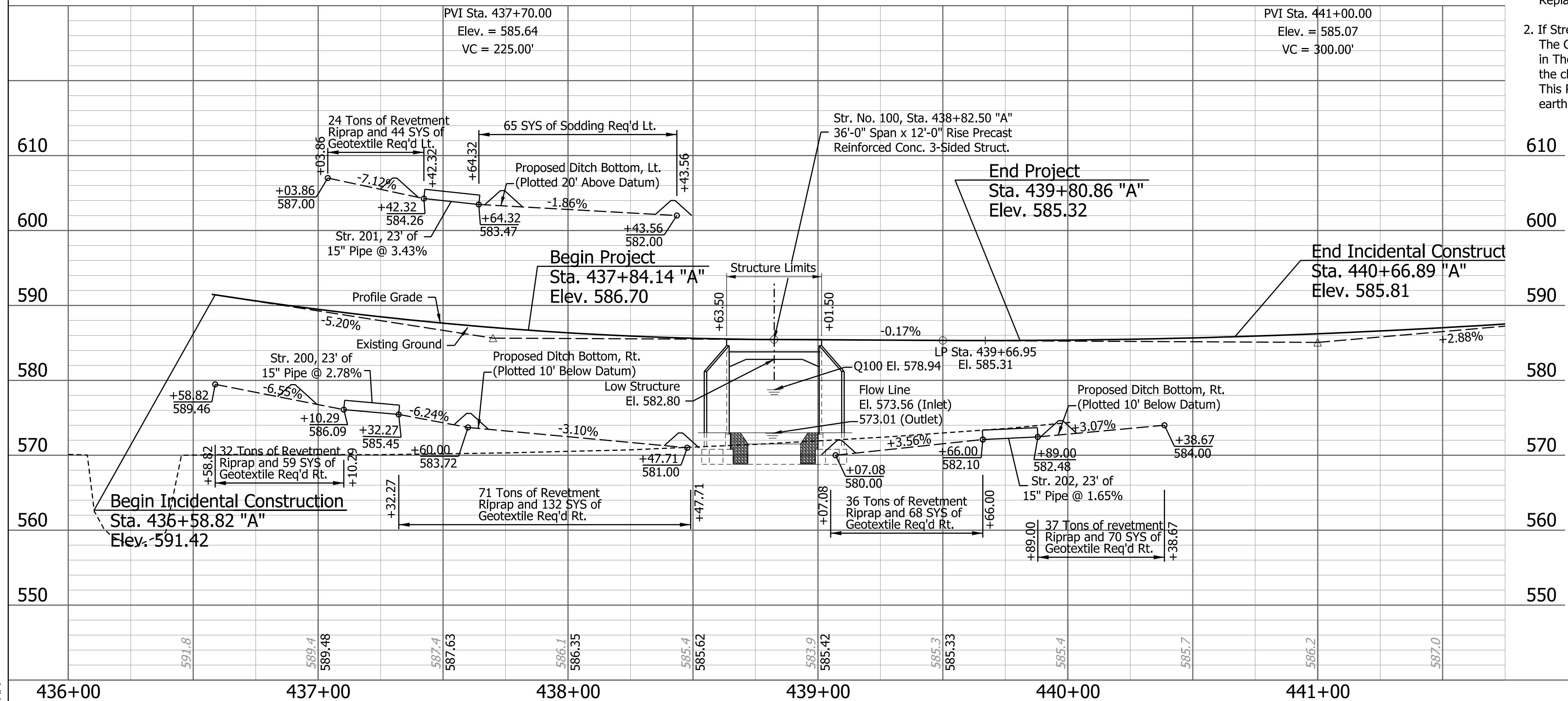
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1" = 30'	340-11-10492
VERTICAL SCALE	DESIGNATION
1" = 10'	1900176
SURVEY BOOK	SHEETS
B-42240	8 of 20
CONTRACT	PROJECT
B-42240	1900176

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TIME PLOTTED: 9:55:02 AM



PUMP AROUND AND DEWATERING SEQUENCE/NOTES

- Prior to any Culvert Replacement 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 Replacement Work Area.
- If Stream Flow is sufficient to overtop the Upstream Cofferdam, The Contractor shall additionally provide a Pump Around as indicated in The Pump Around Detail. The Pump Around will maintain flow in the channel by bypassing the disturbed soil in the Work Area. This Pump Around shall be in place and operational prior to earth-disturbing activity within the Culvert Replacement Work Area.
- The Contractor shall additionally place a Temporary Cofferdam downstream of the Culvert as indicated in Dewatering Detail. The Downstream Cofferdam will prevent any groundwater from within the Work Area from entering the downstream flow area. A Dewatering Pump shall be utilized with a Filter Bag as shown in the Detail.
- Pump Around and Dewatering Operations shall be inspected on a regular basis and maintenance provided as necessary to ensure they are functioning properly. This includes any signs of erosion, leaks or water level overtopping of cofferdams and pump capacity to handle stream water volume.



TEMPORARY EROSION CONTROL TABLE

STATION	LOCATION		FILTER SOCK	MANUFACTURED SURFACE PROTECTION	TEMPORARY FILTER STONE	TEMPORARY CHECK DAM, REVETMENT RIPRAP	TEMPORARY GEOTEXTILES	REMARKS
	LEFT	RIGHT						
Line "A"								
436+59 to 437+12	x		60	104				
436+87 to 437+42	x		63	146				
436+91		x			0.50	5.80	30.00	
437+24	x				0.50	5.80	30.00	
436+87 to 438+70	x		132	398				
437+36 to 438+70	x		137	310				
437+61		x			0.50	5.80	30.00	
437+72	x				0.50	5.80	30.00	
438+40	x				0.50	5.80	30.00	
438+41	x				0.50	5.80	30.00	
438+94 to 439+66	x		64	142				
438+94 to 440+62	x		158	126				
439+18		x			0.50	5.80	30.00	
439+78 to 440+39	x		74	114				
439+97	x				0.50	5.80	30.00	
TOTAL			688	1,340	4.00	46.40	240	

LEGEND

- SF FILTER SOCK
- MOD MODIFIED CHECK DAM REVETMENT RIPRAP
- MANUFACTURED SURFACE PROTECTION PRODUCT
- CHECK DAM IN PROFILE

NOTES:

- UPON COMPLETION OF PIPE INSTALLATION, PERMANENT OUTLET PROTECTION SPECIFIED SHALL BE IMPLEMENTED.

RECOMMENDED FOR APPROVAL

DESIGNED: BJA DRAWN: TPH

CHECKED: CHECKED: BJA

DATE: _____

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION CONTROL DETAIL

HORIZONTAL SCALE: 1" = 30'

VERTICAL SCALE: 1" = 10'

BRIDGE FILE: 340-11-10492

DESIGNATION: 1900176

SURVEY BOOK: _____

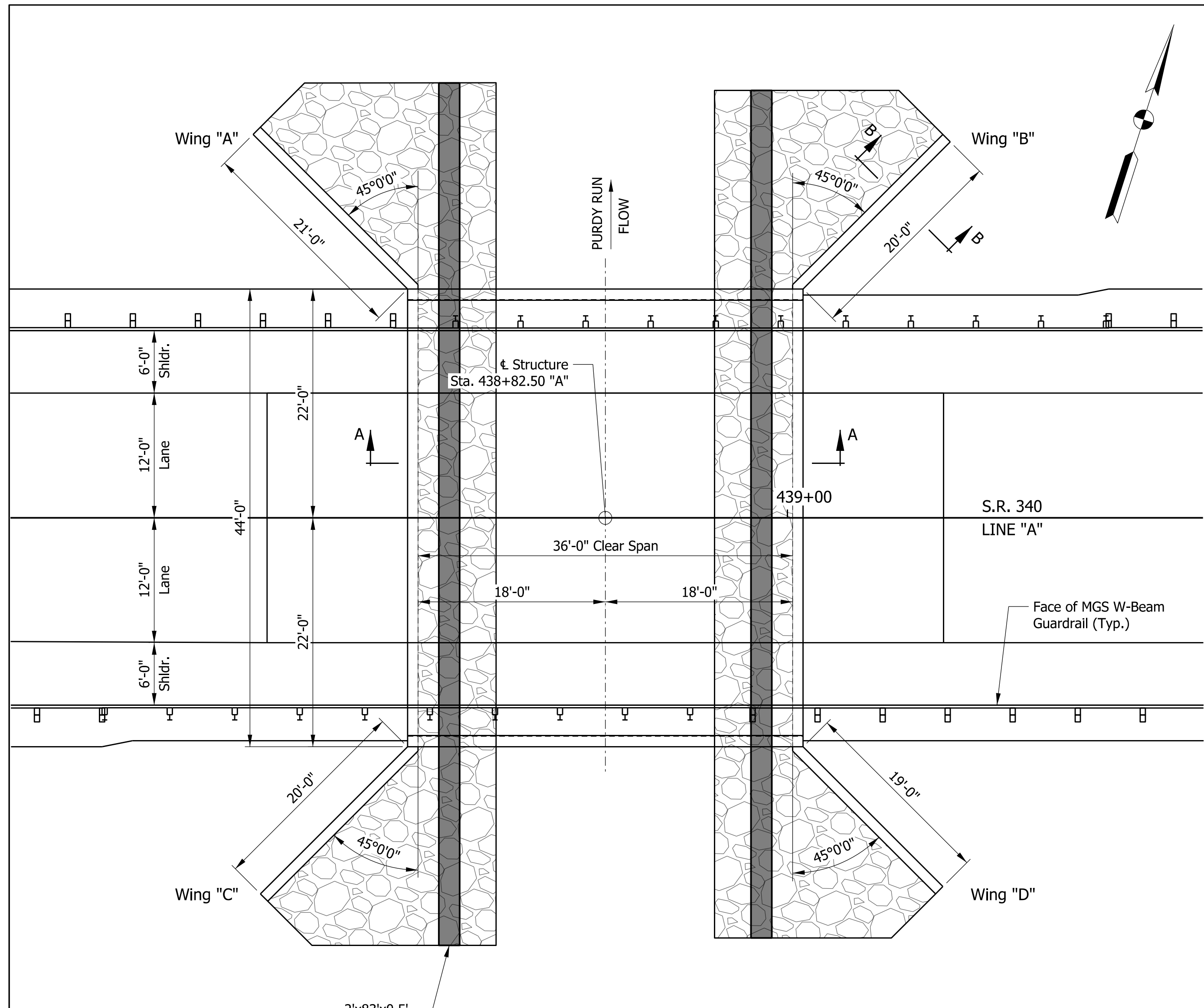
SHEETS: 9 of 20

CONTRACT: B-42240

PROJECT: 1900176

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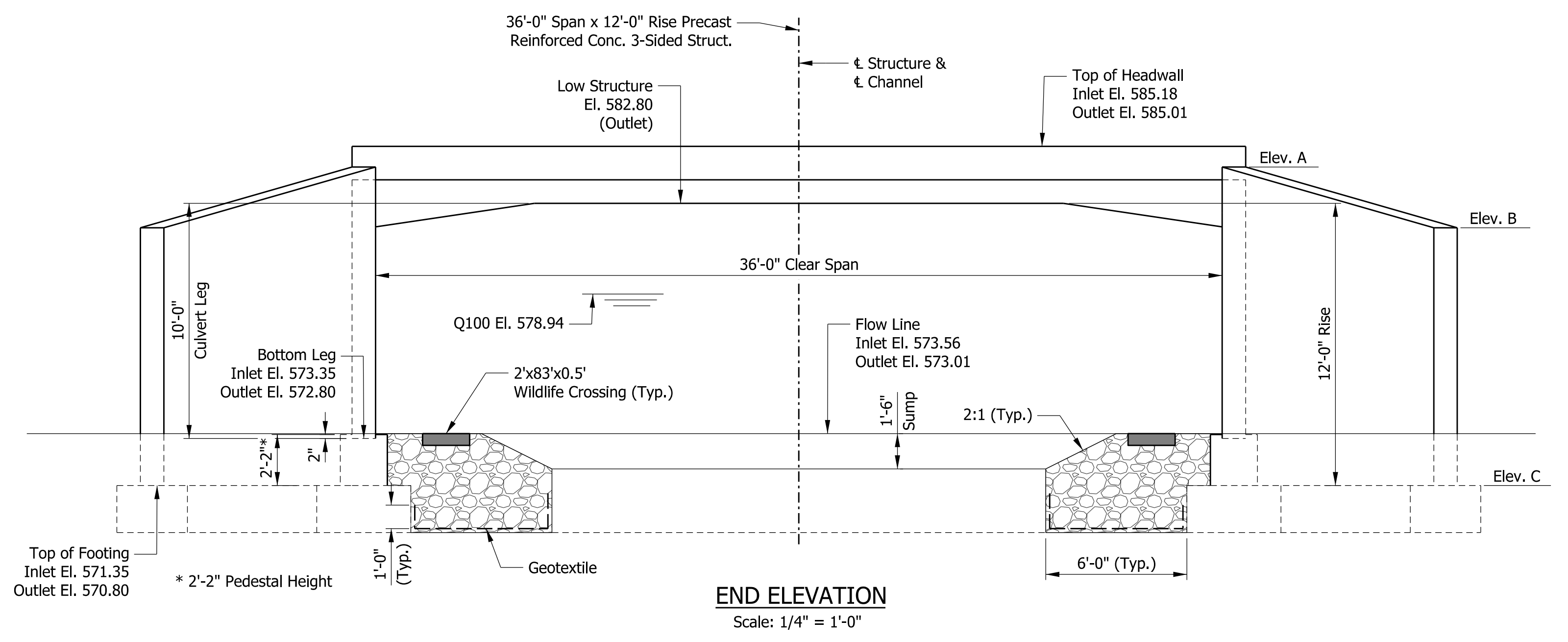


PLAN

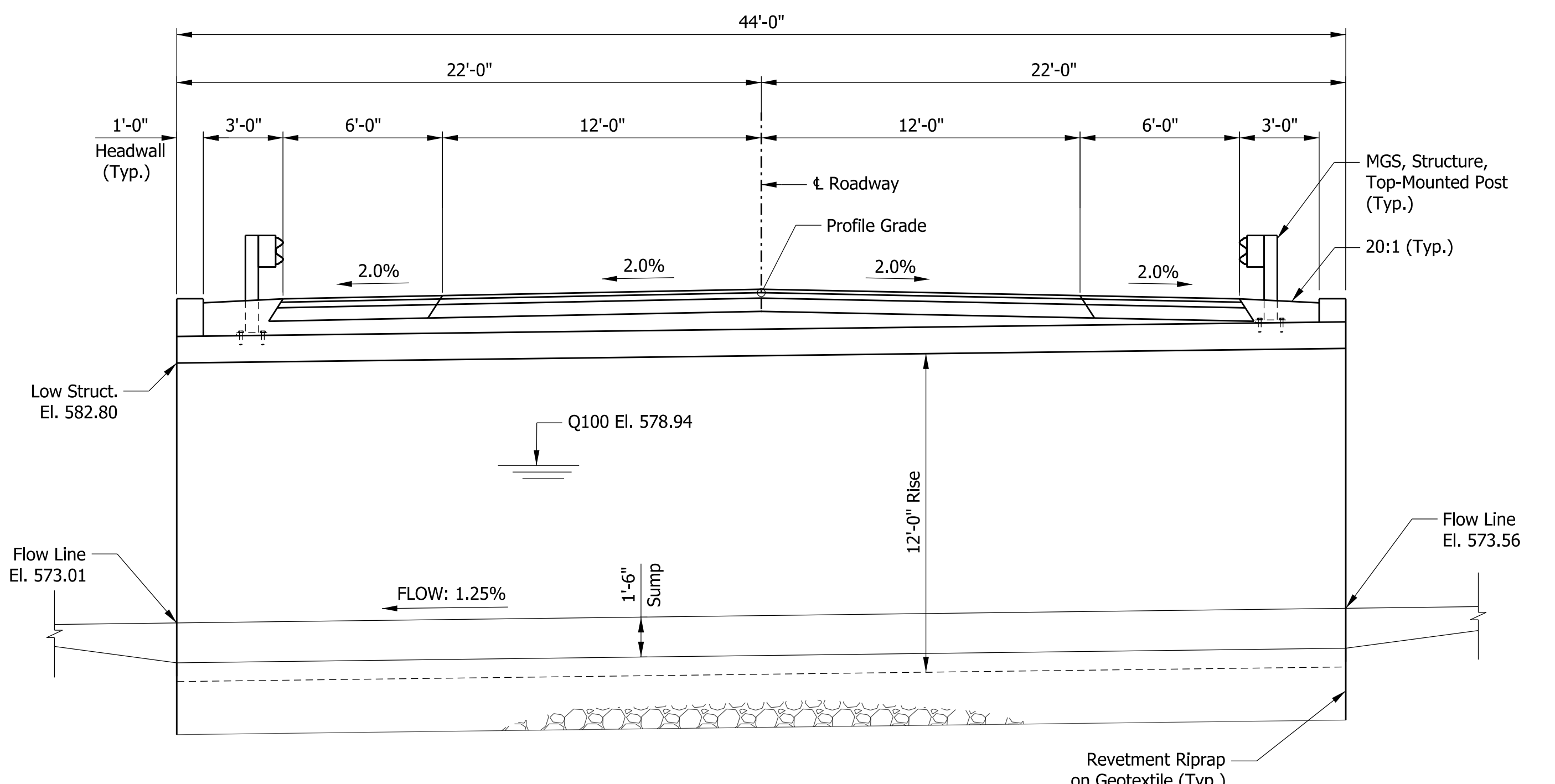
NOTES:
 1. For Section A-A & B-B and Wingwall Data, see Following Sheet.

LEGEND:

- Wildlife Crossing (#53 Stone)
- Revetment Riprap On Geotextile



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



TYPICAL SECTION
 Scale: 1/4" = 1'-0"

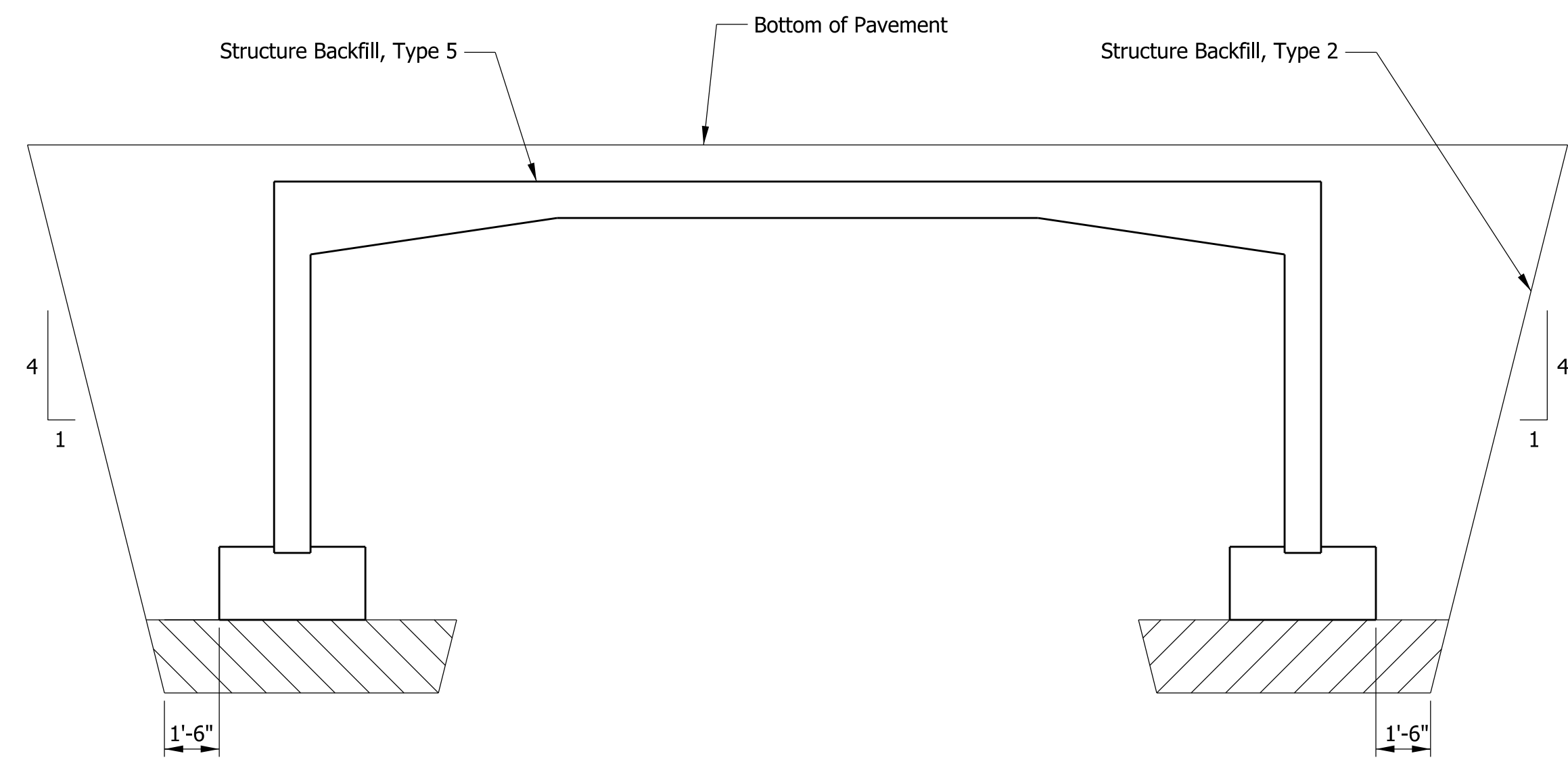
**PRECAST REINFORCED CONCRETE
 THREE-SIDED STRUCTURE
 36'-0" SPAN x 12'-0" RISE x 44'-0" LONG
 SKEW: NONE
 S.R. 340 OVER PURDY RUN
 CLAY COUNTY**

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JPL	DRAWN: JPL	
CHECKED: DOR	CHECKED: DOR	

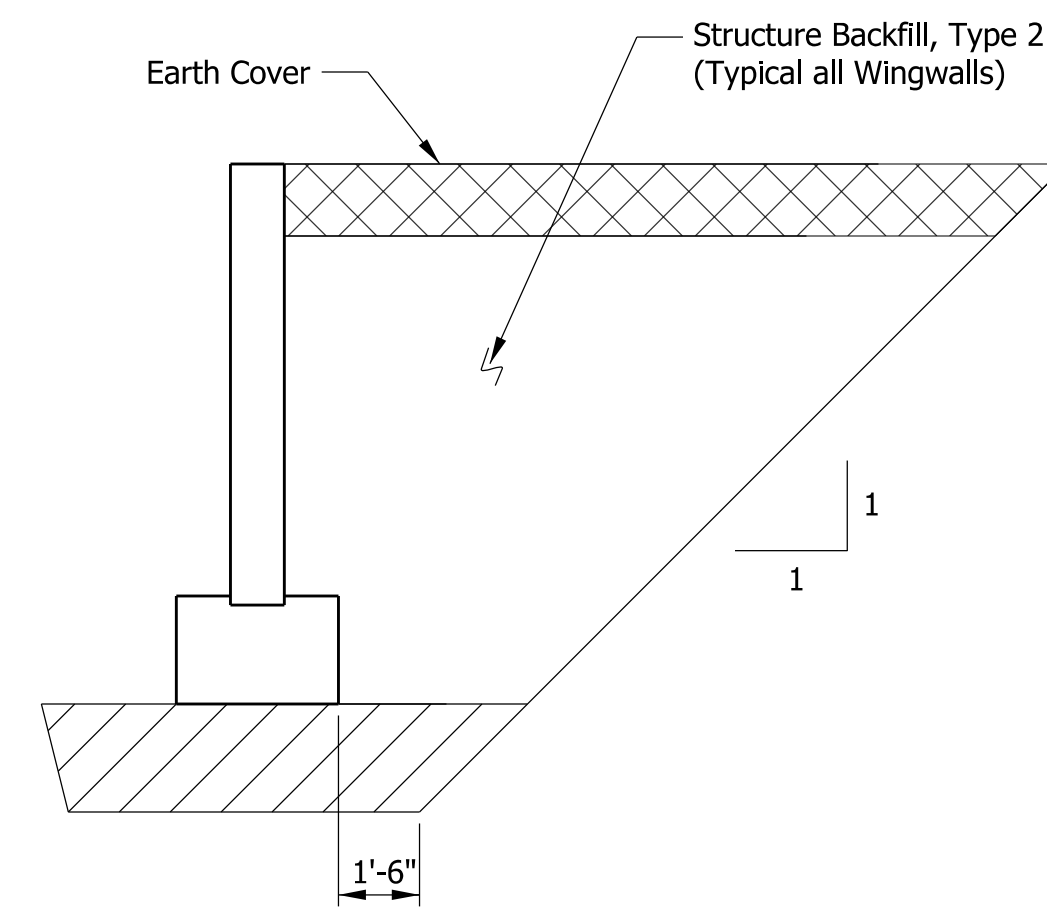
**INDIANA
 DEPARTMENT OF TRANSPORTATION**

GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	340-11-10492
VERTICAL SCALE	DESIGNATION
N/A	1900176
SURVEY BOOK	SHEETS
	10 of 20
CONTRACT	PROJECT
B-42240	1900176



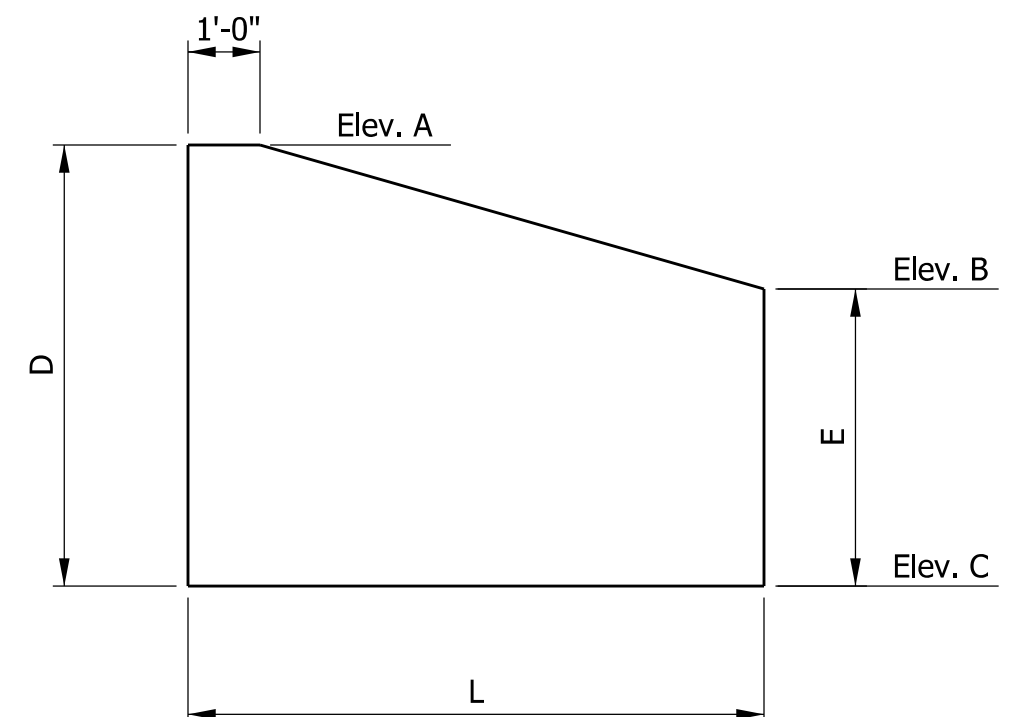
SECTION A-A
No Scale



SECTION B-B
No Scale

LEGEND:

- Soft Soils encountered at footing elevation should be excavated and replaced with Compacted #53 Stone.



WINGWALL ELEVATION
No Scale

WINGWALL TABLE					
	Wing A	Wing B	Wing C	Wing D	
Elev. A	584.96	584.85	584.96	584.85	
Elev. B	580.06	580.05	580.29	580.29	
Elev. C	570.80	570.80	571.35	571.35	
D	14.16'	14.05'	13.61'	13.50'	
E	9.26'	9.25'	8.94'	8.94'	
L	21.0'	20.0'	20.0'	19.0'	
Area (SFT.)	245.9	233.0	225.5	213.2	Total 917.6

WINGWALL SOIL PARAMETERS
T.B.D.

GENERAL NOTES

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

A three-sided arch-topped or true arch structure will not be permitted at this location.

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

See Standard Drawing E723-CCSP-03 & -04 for stream bed scour protection and sumping detail.

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 = 523 CYS
STRUCTURE BACKFILL, TYPE 5 = 42 CYS

DESIGN DATA

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

DEAD LOAD
Actual weight plus 35 lb/ft² for future wearing surface.

**PRECAST REINFORCED CONCRETE
THREE-SIDED STRUCTURE
36'-0" SPAN x 12'-0" RISE x 44'-0" LONG
SKEW: NONE
S.R. 340 OVER PURDY RUN
CLAY COUNTY**

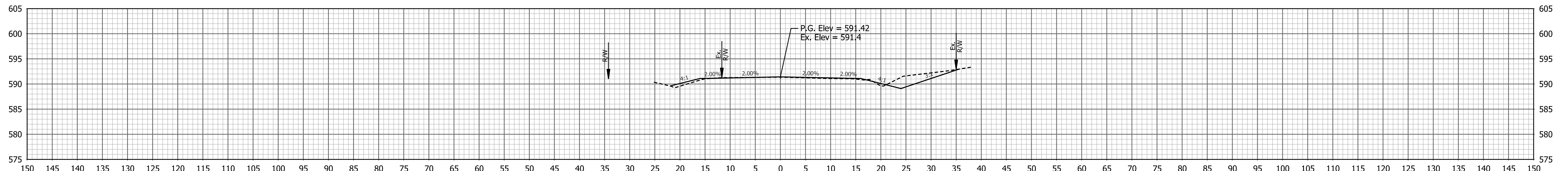
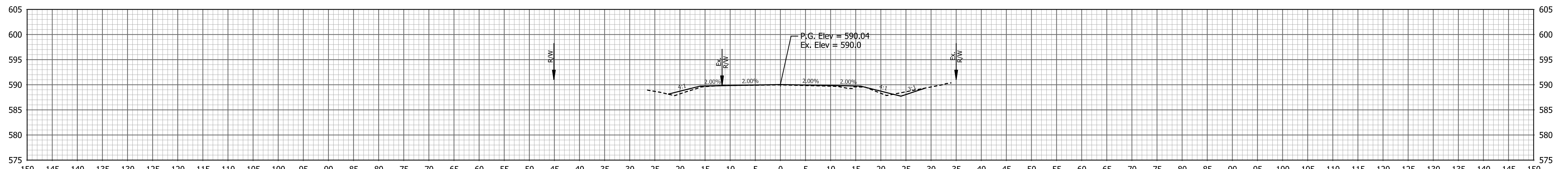
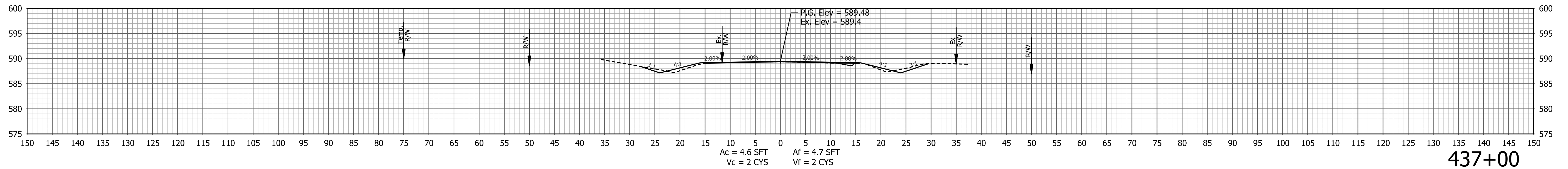
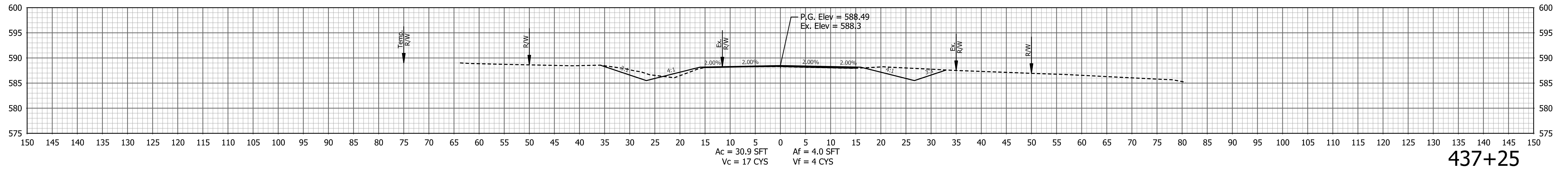
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 TIME PLOTTED: 9:57:03 AM

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JPL _____	DRAWN: JPL _____	
CHECKED: DOR _____	CHECKED: DOR _____	

INDIANA DEPARTMENT OF TRANSPORTATION
GENERAL PLAN

HORIZONTAL SCALE AS NOTED	BRIDGE FILE 340-11-10492
VERTICAL SCALE N/A	DESIGNATION 1900176
SURVEY BOOK	SHEETS 11 of 20
CONTRACT B-42240	PROJECT 1900176

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BEGIN INCIDENTAL CONSTRUCTION
 STA. 436+58.82

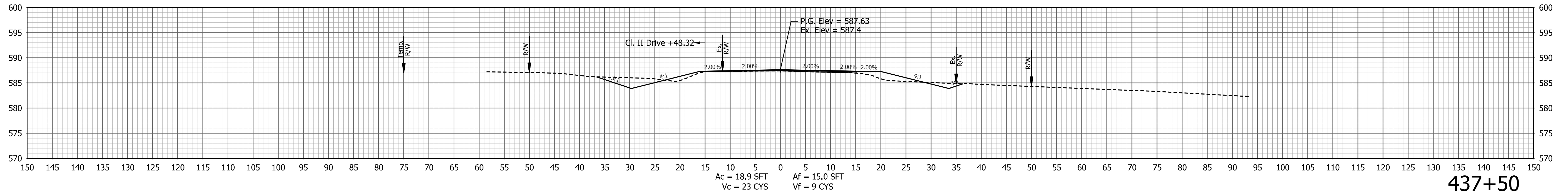
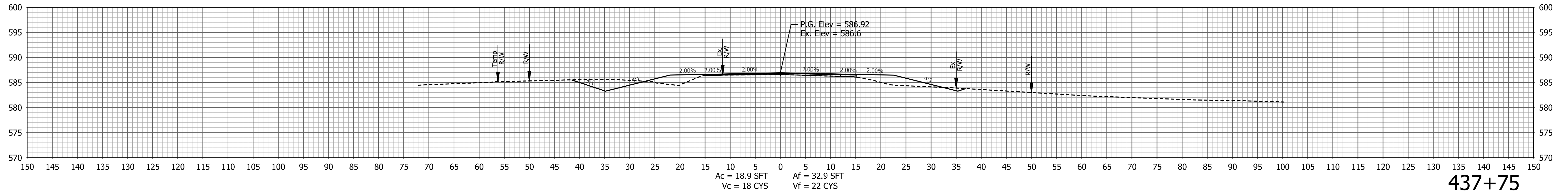
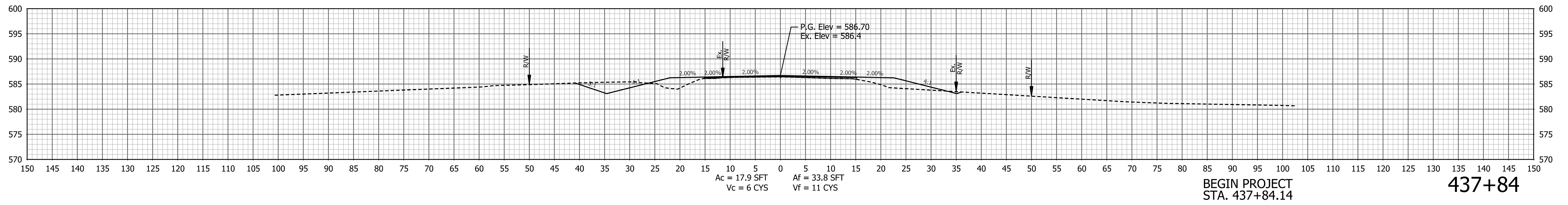
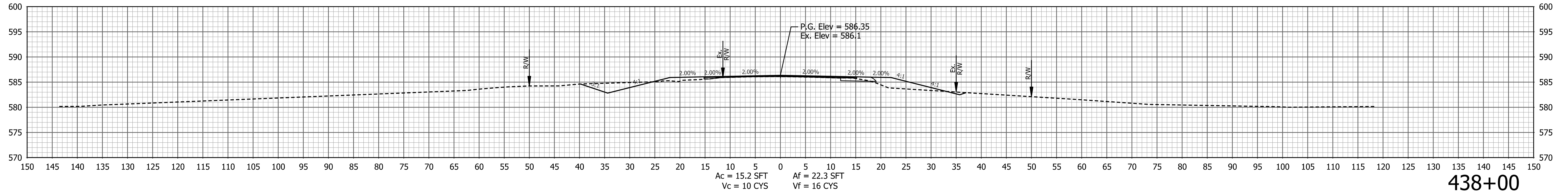
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DESIGNED: NAZ	DRAWN: TPH	
CHECKED: BJA	CHECKED: NAZ	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A" - S.R. 340

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	340-11-10492
VERTICAL SCALE	DESIGNATION
1" = 10'	1900176
SURVEY BOOK	SHEETS
	14 of 20
CONTRACT	PROJECT
B-42240	1900176

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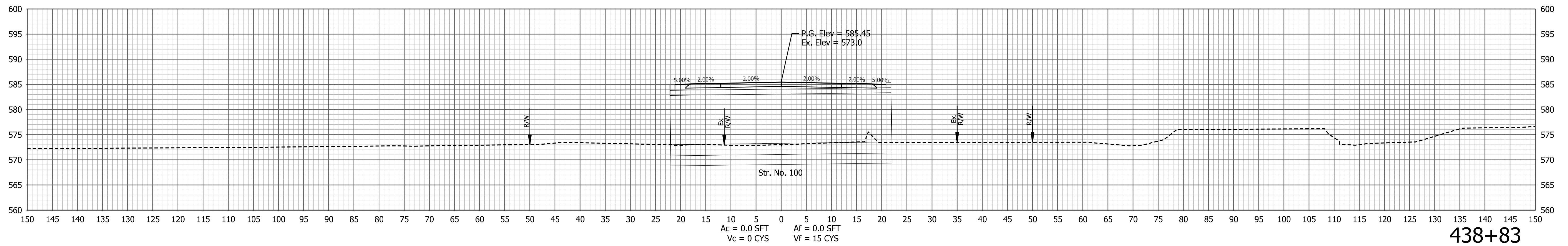
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: NAZ	DRAWN: TPH	
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INDIANA
DEPARTMENT OF TRANSPORTATION

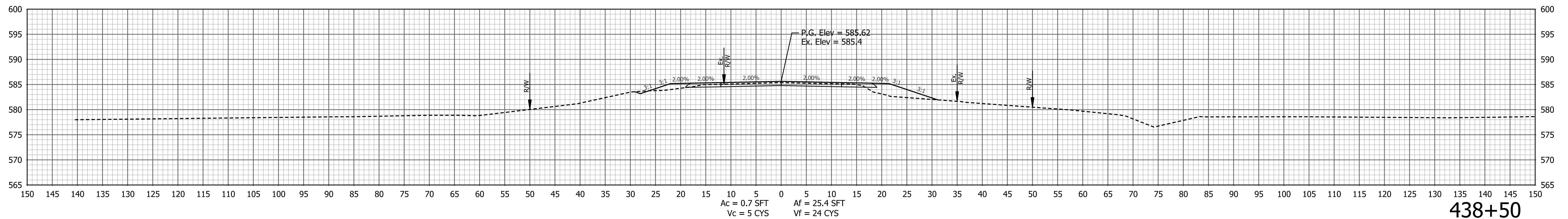
CROSS SECTIONS
LINE "A" - S.R. 340

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VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEETS
	15 of 20
CONTRACT	PROJECT
B-42240	1900176

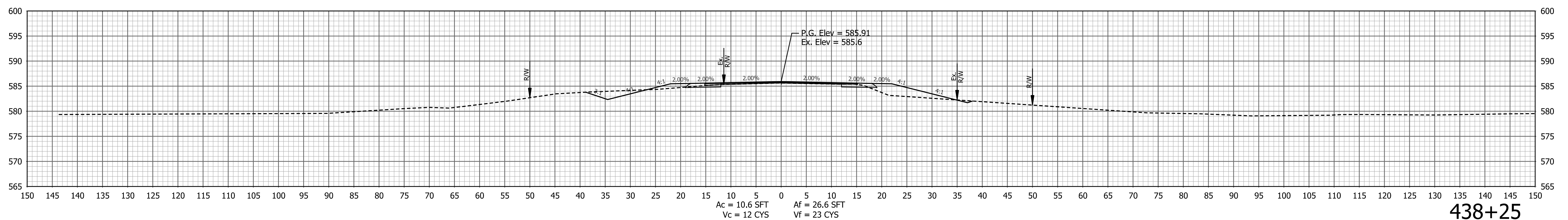
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438+83



438+50



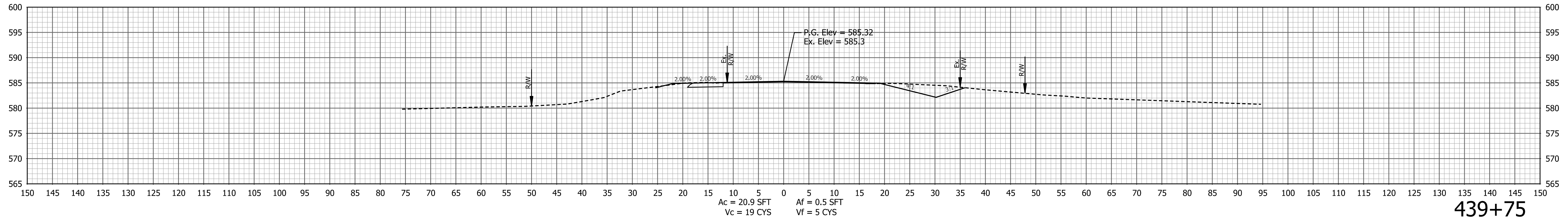
438+25

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
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CHECKED: BJA	CHECKED: NAZ		

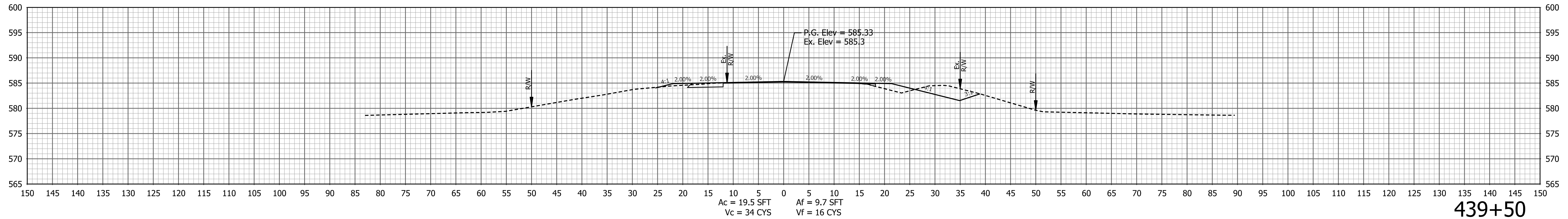
INDIANA
 DEPARTMENT OF TRANSPORTATION

 CROSS SECTIONS
 LINE "A" - S.R. 340

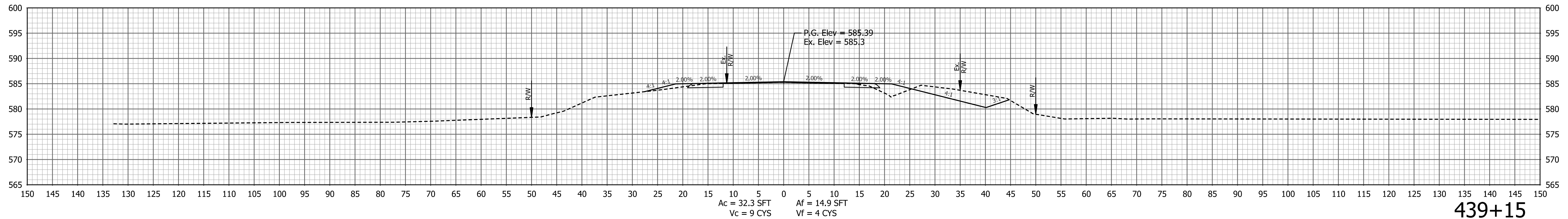
HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 340-11-10492
VERTICAL SCALE 1" = 10'	DESIGNATION 1900176
SURVEY BOOK	SHEETS 16 of 20
CONTRACT B-42240	PROJECT 1900176



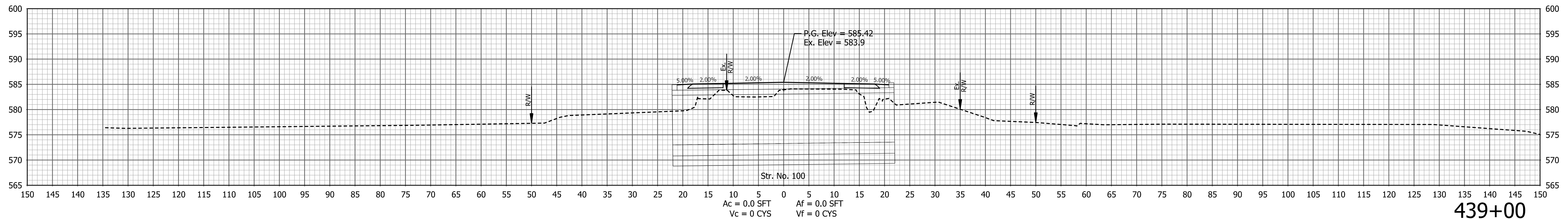
439+75



439+50



439+15



439+00

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 MODEL NAME: XS-004
 DATE PLOTTED: 2/17/2023
 TIME PLOTTED: 9:57:13 AM

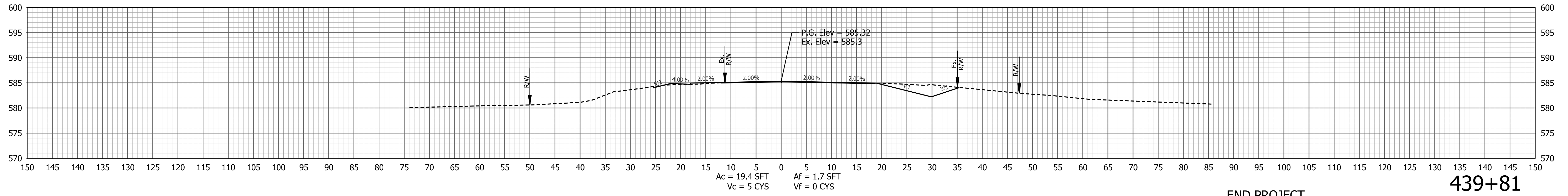
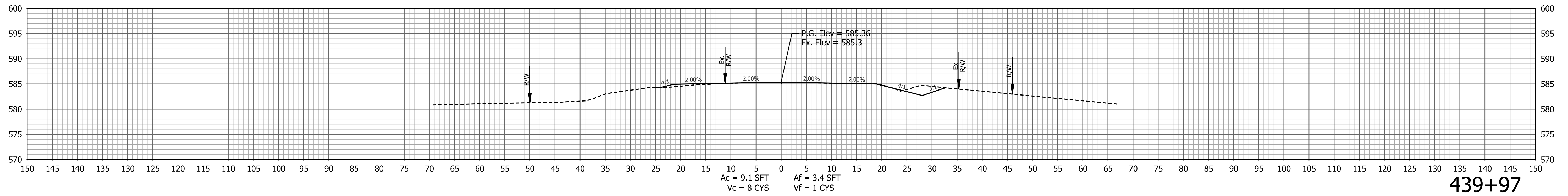
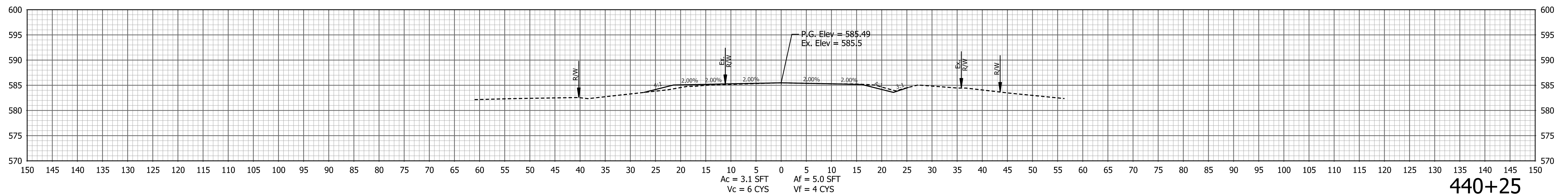
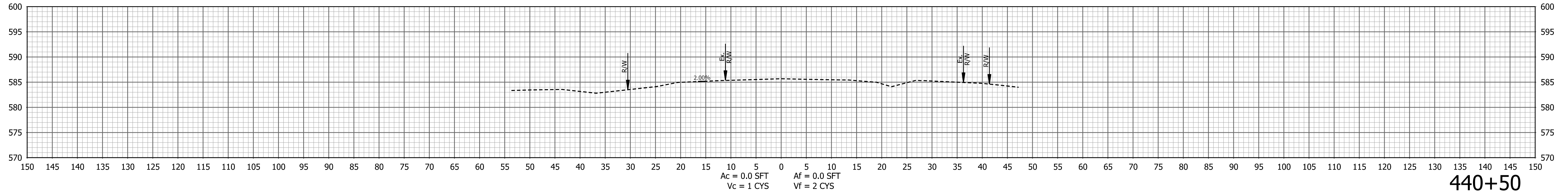
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DESIGNED: NAZ	DRAWN: TPH	
CHECKED: BJA	CHECKED: NAZ	

INDIANA
 DEPARTMENT OF TRANSPORTATION

 CROSS SECTIONS
 LINE "A" - S.R. 340

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 340-11-10492
VERTICAL SCALE 1" = 10'	DESIGNATION 1900176
SURVEY BOOK	SHEETS 17 of 20
CONTRACT B-42240	PROJECT 1900176

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 TIME PLOTTED: 9:57:15 AM



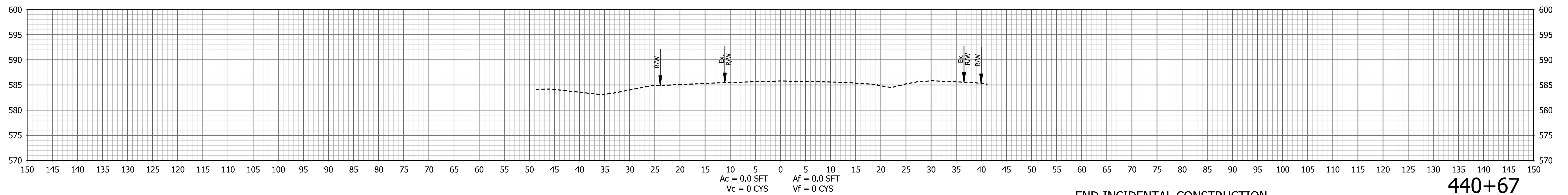
END PROJECT
 STA. 439+80.86

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: NAZ	DRAWN: TPH	
CHECKED: BJA	CHECKED: NAZ	

INDIANA
 DEPARTMENT OF TRANSPORTATION
 CROSS SECTIONS
 LINE "A" - S.R. 340

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	340-11-10492
VERTICAL SCALE	DESIGNATION
1" = 10'	1900176
SURVEY BOOK	SHEETS
	18 of 20
CONTRACT	PROJECT
B-42240	1900176

PATH AND FILENAME: V:\Projects\ANY\K5\059747.000\CADD\MSTW\1900176\Sheet Drawings\1900176_Sht_XSect_10.dgn
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 DATE PLOTTED: 2/17/2023
 TIME PLOTTED: 9:57:16 AM



END INCIDENTAL CONSTRUCTION
 STA. 440+66.89

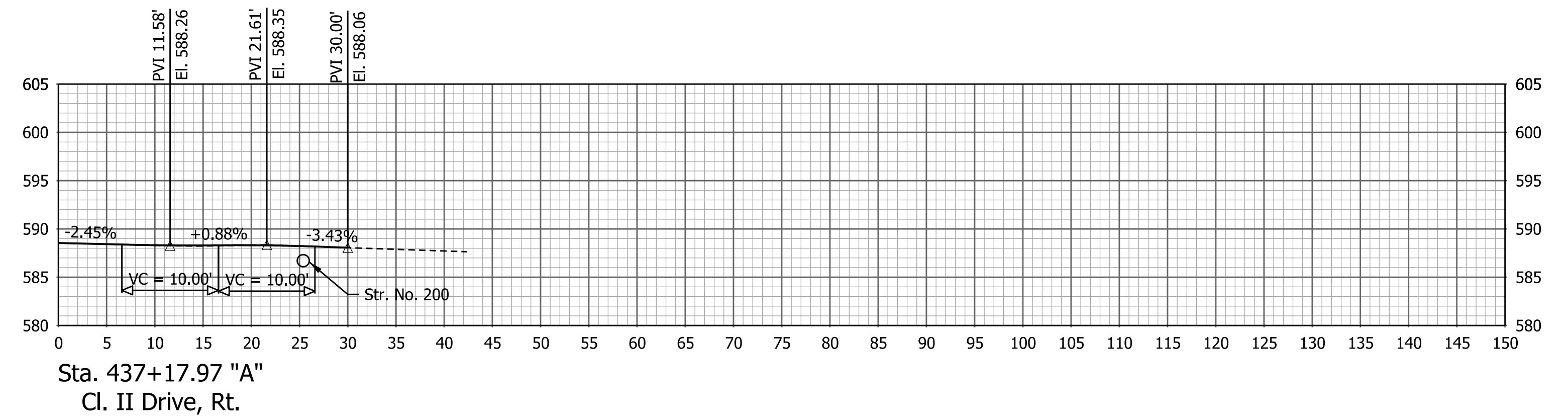
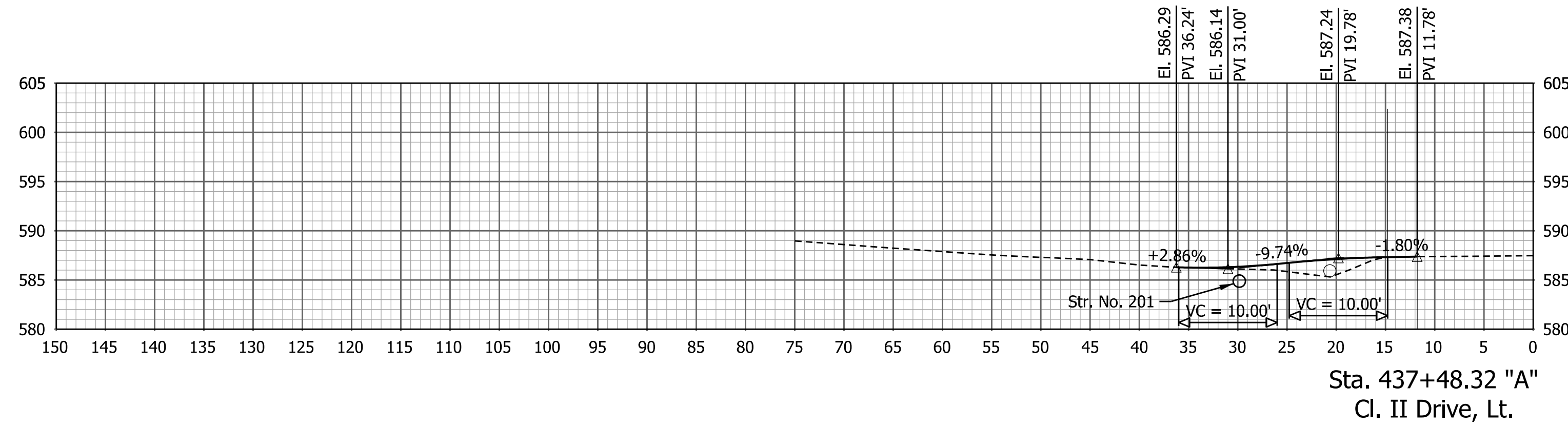
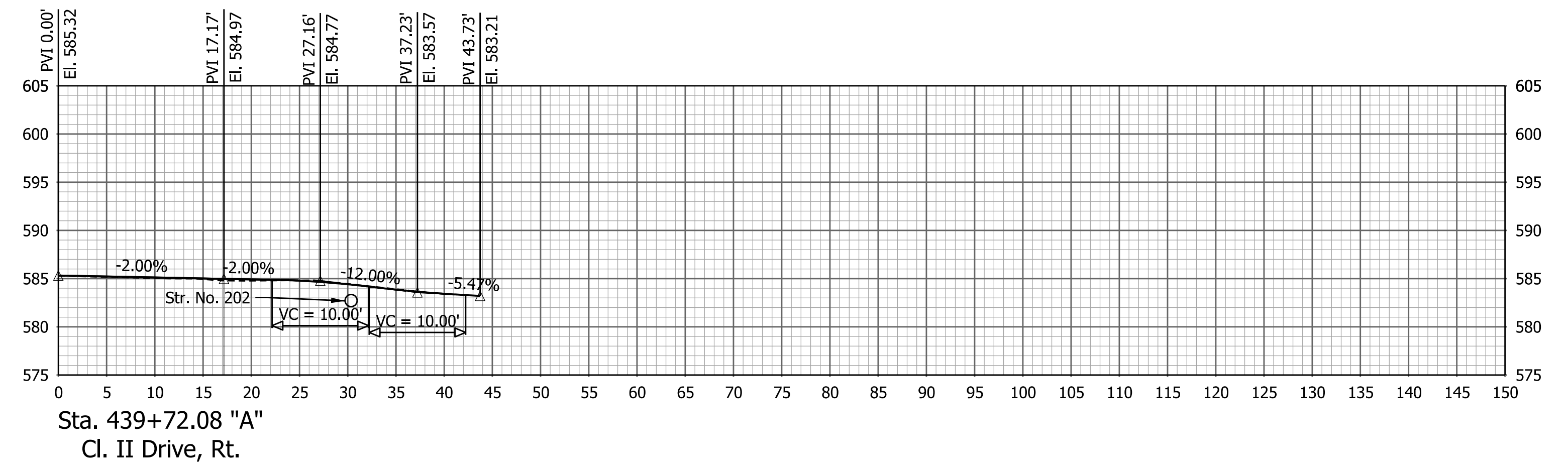
440+67

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	DATE
DESIGNED: NAZ	DRAWN: TPH		
CHECKED: BJA	CHECKED: NAZ		

INDIANA DEPARTMENT OF TRANSPORTATION	
CROSS SECTIONS LINE "A" - S.R. 340	

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	340-11-10492
VERTICAL SCALE	DESIGNATION
1" = 10'	1900176
SURVEY BOOK	SHEETS
	19 of 20
CONTRACT	PROJECT
B-42240	1900176

PATH AND FILENAME: V:\Projects\ANY\K5\059747.000\CADD\MSTW\1900176\Sheet Drawings\1900176_Sht Drv_Prof.dgn
 MODEL NAME: Drv_Prof
 DATE PLOTTED: 2/17/2023
 TIME PLOTTED: 9:57:21 AM



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: NAZ	DRAWN: TPH	
CHECKED: BJA	CHECKED: NAZ	

INDIANA DEPARTMENT OF TRANSPORTATION	
DRIVE PROFILES	

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	340-11-10492
VERTICAL SCALE	DESIGNATION
1" = 10'	1900176
SURVEY BOOK	SHEETS
	20 of 20
CONTRACT	PROJECT
B-42240	1900176