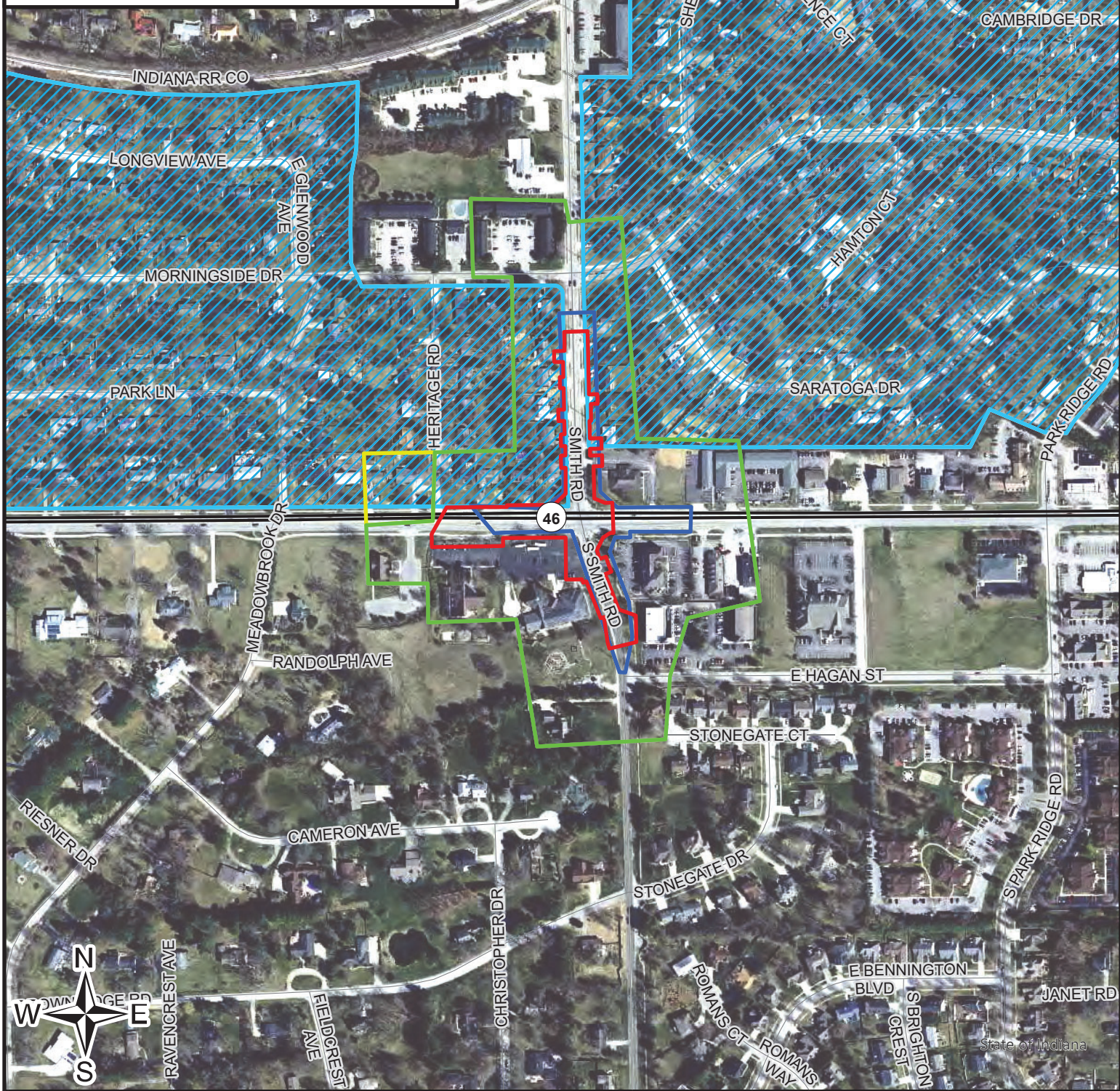


Aerial Location Map (1:5,000)
 Intersection Improvement Project
 SR 46 at Smith Road
 Des. No. 1800208
 Monroe County, Indiana
 Source: Indiana OrthoImagery, 2016-2018



- Revised Project Area
- Original Project Area
- Revised Area of Potential Effect
- Original Area of Potential Effect
- Park Ridge Neighborhoods





1. Looking north on Smith Road from the south end of the APE at Stonegate CT



2. Looking east at Stonegate Ct.



3. Looking north at Smith Road from Hagan St.



4. Looking south on Smith Road from Hagan St.



5. Looking east at 330 Smith Road a 1970s house built to look old



6. Looking south on Smith Road from SR 46



7. Looking east on SR 46 from Smith Road intersection



8. Looking north at Smith Road from SR 46 intersection



9. Looking northwest toward Smith Road from SR 46 intersection



10. Looking west at SR 46 from Smith Road intersection



11. Looking east at Morningside Drive from Smith Road



12. Looking south at Smith Road from Morningside Drive



13. Looking west at Morningside Drive



14. Looking north at Yorktown Court apartments 3811 E. Morningside Dr. from Morningside Drive



15. Looking west on Morningside Drive



16. Looking south on Heritage Road



17. Looking southwest on Heritage Road



18. Looking northeast at Morningside Drive



19. Looking southeast at Saratoga Drive from Morningside Drive in Park Ridge East



20. Looking northwest at Saratoga Drive in Park Ridge East



21. Looking east at SR 46 from the west end of the APE



22. Looking northwest at Sheffield and Park Ridge



23. Looking north at Sheffield and Park Ridge



24. Looking northeast at Walpole and Park Ridge



25. Looking north on Plymouth from Weymouth



26. Looking southeast at Plymouth and Weymouth



27. Looking west on Plymouth from Weymouth



28. Looking north at Beacon and Plymouth



29. Looking east toward 3563 East Morningside



30. Looking west at Morningside and Lexington



31. Looking west toward Park Ridge Park



32. Looking east at Longview and Concord

Des. 1800208 Consulting Party List

Participating consulting parties are highlighted

CP Name	Organization	email
Chad Slider	IDNR - DHPA / SHPO	cslider@dnr.in.gov
Michelle Allen	Federal Highway Administration	michelle.allen@do.gov
Sam Burgess	Indiana Landmarks	sburgess@indianalandmarks.org
Glenda Murray	Monroe County Historian	glmurray@indiana.edu
Dave Musgrave	Monroe County History Center	director@monroehistory.org
Conor Herterich	Bloomington Historic Preservation Commission	herteric@bloomington.in.gov
Derek Richey	Bloomington Restorations, Inc.	bri@bloomingtonrestorations.org
Larry Wilson	Monroe County Planning Department for the Historic Preservation Board of Review	lwilson@co.monroe.in.us
John Hamilton	Mayor of the City of Bloomington	mayor@bloomington.in.gov
Patrick Martin	Bloomington/Monroe County MPO	martipa@bloomington.in.gov
Lee Jones	Monroe County Commissioner	ljones@co.monroe.in.us
Julie L. Thomas	Monroe County Commissioner	jthomas@co.monroe.in.us
Penny Githens	Monroe County Commissioner City of Bloomington Planning and Transportation Department	pgithens@co.monroe.in.us Planning@bloomington.in.gov
Tribes	Eastern Shawnee Tribe of Oklahoma Miami Tribe of Oklahoma Peoria Tribe of Indians of Oklahoma Pokagon Band of Potawatomi Indians Delaware Tribe of Indians, Oklahoma	

Karen Wood

From: Connie Zeigler
Sent: Tuesday, August 27, 2019 1:58 PM
To: cslider@dnr.IN.gov; Sam Burgess; glmurray@indiana.edu; director@monroehistory.org; herteric@bloomington.in.gov; bri@bloomingtonrestorations.org; lwilson@co.monroe.in.us; mayor@bloomington.in.gov; martipa@bloomington.in.gov; ljones@co.monroe.in.us; jthomas@co.monroe.in.us; pgithens@co.monroe.in.us; Planning@bloomington.in.gov
Cc: Carpenter, Patrick A; Miller, Shaun (INDOT); Branigin, Susan; Kumar, Anuradha; Karen Wood; Erin Mulryan
Subject: FHWA Project: Des. No. 1800208 SR 46 and Smith Road Intersection Improvement Project
Attachments: SR46andSmithRoad_Des1800208_ECL-2019-8-27.pdf

Des. No.: 1800208

Project Description: Intersection improvement project

Location: SR 46 and Smith Road, Bloomington, Monroe County, Indiana

The Indiana Department of Transportation, with funding from the Federal Highway Administration, proposes to proceed with the SR 46 and Smith Road Intersection Improvement Project, Des. No. 1800208.

Section 106 of the National Historic Preservation Act requires federal agencies to take into account the effects of their undertakings on historic properties. The following agencies/individuals are being invited to become consulting parties:

Indiana State Historic Preservation Officer
 Indiana Landmarks, Central Regional Office
 Monroe County Historian
 Monroe County History Center
 Bloomington Historic Preservation Commission
 Bloomington Restorations, Inc.
 Monroe County Planning Department for Historic Preservation Board of Review
 Mayor of the City of Bloomington
 Bloomington/ Monroe County MPO
 Bloomington Restorations, Inc.
 City of Bloomington Planning and Transportation Department
 Monroe County Commissioners
 Eastern Shawnee Tribe of Oklahoma
 Miami Tribe of Oklahoma
 Peoria Tribe of Indians of Oklahoma
 Pokagon Band of Potawatomi Indians
 Delaware Tribe of Indians, Oklahoma

This letter is part of the early coordination phase of the environmental review process requesting comments associated with this project. We are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. Please use the above Des. Number and project description in your reply and your comments will be incorporated into the formal environmental study.

Please review the attached letter, which is also located in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with your comments on any historic resource impacts incurred as a result of this project so that an environmental report can be completed. We also

welcome your related opinions and other input to be considered in the preparation of the environmental document. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comments. If we do not receive a response from an invited consulting party within the time allotted, the project will proceed consistent with the proposed design. **Therefore, if we do not receive a response within thirty (30) days, your agency or organization will not receive any further information on the project unless the scope of work changes.**

Tribal contacts may contact Shaun Miller at smiller@indot.in.gov or 317-233-6795 or Michelle Allen at FHWA at michelle.allen@dot.gov or 317-226-7344.

Thank you in advance for your input,

Connie Zeigler
Architectural Historian

connie@green3studio.com



Scott Henley (Jeffrey Scott)

From: Carpenter, Patrick A <PACarpenter@indot.IN.gov>
Sent: Tuesday, August 27, 2019 2:14 PM
To: thpo@estoo.net; Diane Hunter; Logan Pappenfort; matthew.bussler@pokagonband-nsn.gov; Larry Heady
Cc: Connie Zeigler; Allen, Michelle (FHWA); Miller, Shaun (INDOT); Branigin, Susan
Subject: FW: FHWA Project: Des. No. 1800208 SR 46 and Smith Road Intersection Improvement Project
Attachments: SR46andSmithRoad_Des1800208_ECL-2019-8-27.pdf

Dear Consulting Parties,

Des. No.: 1800208

Project Description: Intersection improvement project

Location: SR 46 and Smith Road, Bloomington, Monroe County, Indiana

The Indiana Department of Transportation, with funding from the Federal Highway Administration, proposes to proceed with the SR 46 and Smith Road Intersection Improvement Project, Des. No. 1800208.

Section 106 of the National Historic Preservation Act requires federal agencies to take into account the effects of their undertakings on historic properties. The following agencies/individuals are being invited to become consulting parties:

Indiana State Historic Preservation Officer
 Indiana Landmarks, Central Regional Office
 Monroe County Historian
 Monroe County History Center
 Bloomington Historic Preservation Commission
 Bloomington Restorations, Inc.
 Monroe County Planning Department for Historic Preservation Board of Review
 Mayor of the City of Bloomington
 Bloomington/ Monroe County MPO
 Bloomington Restorations, Inc.
 City of Bloomington Planning and Transportation Department
 Monroe County Commissioners
 Eastern Shawnee Tribe of Oklahoma
 Miami Tribe of Oklahoma
 Peoria Tribe of Indians of Oklahoma
 Pokagon Band of Potawatomi Indians
 Delaware Tribe of Indians, Oklahoma

This letter is part of the early coordination phase of the environmental review process requesting comments associated with this project. We are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. Please use the above Des. Number and project description in your reply and your comments will be incorporated into the formal environmental study.

Please review the attached letter, which is also located in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with your comments on any historic resource impacts incurred as a result of this project so that an environmental report can be completed. We also

welcome your related opinions and other input to be considered in the preparation of the environmental document. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comments. If we do not receive a response from an invited consulting party within the time allotted, the project will proceed consistent with the proposed design. **Therefore, if we do not receive a response within thirty (30) days, your agency or organization will not receive any further information on the project unless the scope of work changes.**

Tribal contacts may contact Shaun Miller at smiller@indot.in.gov or 317-233-6795 or Michelle Allen at FHWA at michelle.allen@dot.gov or 317-226-7344.

Thank you in advance for your input,

Patrick Carpenter
Section 106 Specialist, Cultural Resources Office
Environmental Services
Indiana Department of Transportation
100 N Senate Ave., IGCN-Rm. N-642
Indianapolis, IN 46204-2216
317-233-2061



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N642
Indianapolis, Indiana 46204

PHONE: (317) 234-5168

Eric Holcomb, Governor
Joe McGuinness, Commissioner

August 27, 2019

This letter was sent to the listed parties.

RE: SR 46 and Smith Road Intersection Improvement Project, Monroe County, Indiana, Des. No. 1800208

Dear Consulting Party (see attached list),

The Indiana Department of Transportation (INDOT), with funding from the Federal Highway Administration, proposes to proceed with the State Road (SR) 46 and Smith Road Intersection Improvement Project, Des. No. 1800208. Green 3, LLC is a subconsultant to Crawford, Murphy & Tilly, who is under contract with INDOT to advance the environmental documentation for the referenced project.

This letter is part of the early coordination phase of the environmental review process requesting comments associated with this project. We are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. Please use the above Des. Number and project description in your reply and your comments will be incorporated into the formal environmental study.

The proposed undertaking is at the intersection of SR 46 and Smith Road, extending approximately 500 feet in each direction in Monroe County, Indiana. It is within Bloomington Township, Unionville USGS Topographic Quadrangle, on the border of Sections 1, 2, 35, and 36, Township 8 North and Township 9 North, Range 1 West.

The need of the project is due to the high average daily traffic volume for a collector road. The purpose of this project is to provide a solution that reduces congestion and improve pedestrian accessibility.

SR 46, traveling east-west, consists of two twelve-foot lanes in each direction with no median. To the west of the intersection, there is sidewalk on the north side with a trail on the south side of SR 46, and to the east, there is only sidewalk on the south side of SR 46. Smith Road, traveling south-north, consists of one ten-foot lane in each direction with four-foot wide bike lanes north of the intersection; south of the intersection, Smith Road consists of one twelve-foot lane in each direction with a six-foot-wide sidewalk located on the west side of the road. Curb and gutters are extant along all facilities in each direction. Within project limits, there are various commercial and residential driveway access points.

The project proposes to provide exclusive left-turn lanes on Smith Road. Smith Road would be widened to accommodate the additional turn lane on both the north and south approaches. The new lane configuration for the southbound approach for Smith Road consists of a travel lane in each direction, a left-turn lane, and two bike lanes. The new lane configuration for the northbound approach of Smith Road consists of a travel lane in

each direction and a left-turn lane. It is anticipated that curb, gutter, storm sewers and driveway approaches will be reconstructed along Smith Road to the north and south of the intersection.

It is anticipated that the project will require approximately 0.14 acre of right-of-way acquisition: 0.06 acre of permanent and 0.08 acre of temporary right-of-way. No relocations of residences or businesses are expected for this project. The letting date is 2023.

Section 106 of the National Historic Preservation Act requires federal agencies to take into account the effects of their undertakings on historic and archaeological properties. In accordance with 36 CFR 800.2 (c), you are hereby requested to be a consulting party to participate in the Section 106 process. Entities that have been invited to participate in the Section 106 consultation process for this project are identified in the attached list. Per 36 CFR 800.3(f), we hereby request that the Indiana State Historic Preservation Officer (SHPO) notify this office if the SHPO staff is aware of any other parties that may be entitled to be consulting parties or should be contacted as potential consulting parties for the project.

The Section 106 process involves efforts to identify historic properties potentially affected by the undertaking, assess its effects and seek ways to avoid, minimize or mitigate any adverse effects on historic properties. For more information regarding the protection of historic resources, please see the Advisory Council on Historic Preservation's guide: *Protecting Historic Properties: A Citizen's Guide to Section 106 Review* available online at <https://www.achp.gov/sites/default/files/documents/2017-01/CitizenGuide.pdf>.

The Area of Potential Effects (APE) is the area in which the proposed project may cause alterations in the character or use of historic resources. At this time, no cultural resource investigations have occurred; however, the results of cultural resource identification and evaluation efforts, both above-ground and archaeological, will be forthcoming. Consulting parties will receive notification when these reports are completed.

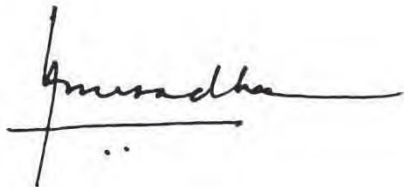
Please review the information and comment within thirty (30) calendar days of receipt. If you indicate that you do not desire to be a consulting party, or if you do not respond, you will not be included on the list of consulting parties for this project. If we do not receive your response in the time allotted, the project will proceed consistent with the proposed design and you will not receive further information about the project unless the design changes.

For questions concerning specific project details, you may contact Connie Zeigler of Green 3, LLC at (317) 634-4110 or connie@green3studio.com. All future responses regarding the proposed project should be forwarded to Green 3, LLC at the following address:

Connie Zeigler
Architectural Historian
Green 3, LLC
1104 Prospect Street
Indianapolis, IN, 46203
connie@green3studio.com

Tribal contacts may contact Shaun Miller at smiller@indot.in.gov or 317-233-6795 or Michelle Allen at FHWA at michelle.allen@dot.gov or 317-226-7344.

Sincerely,



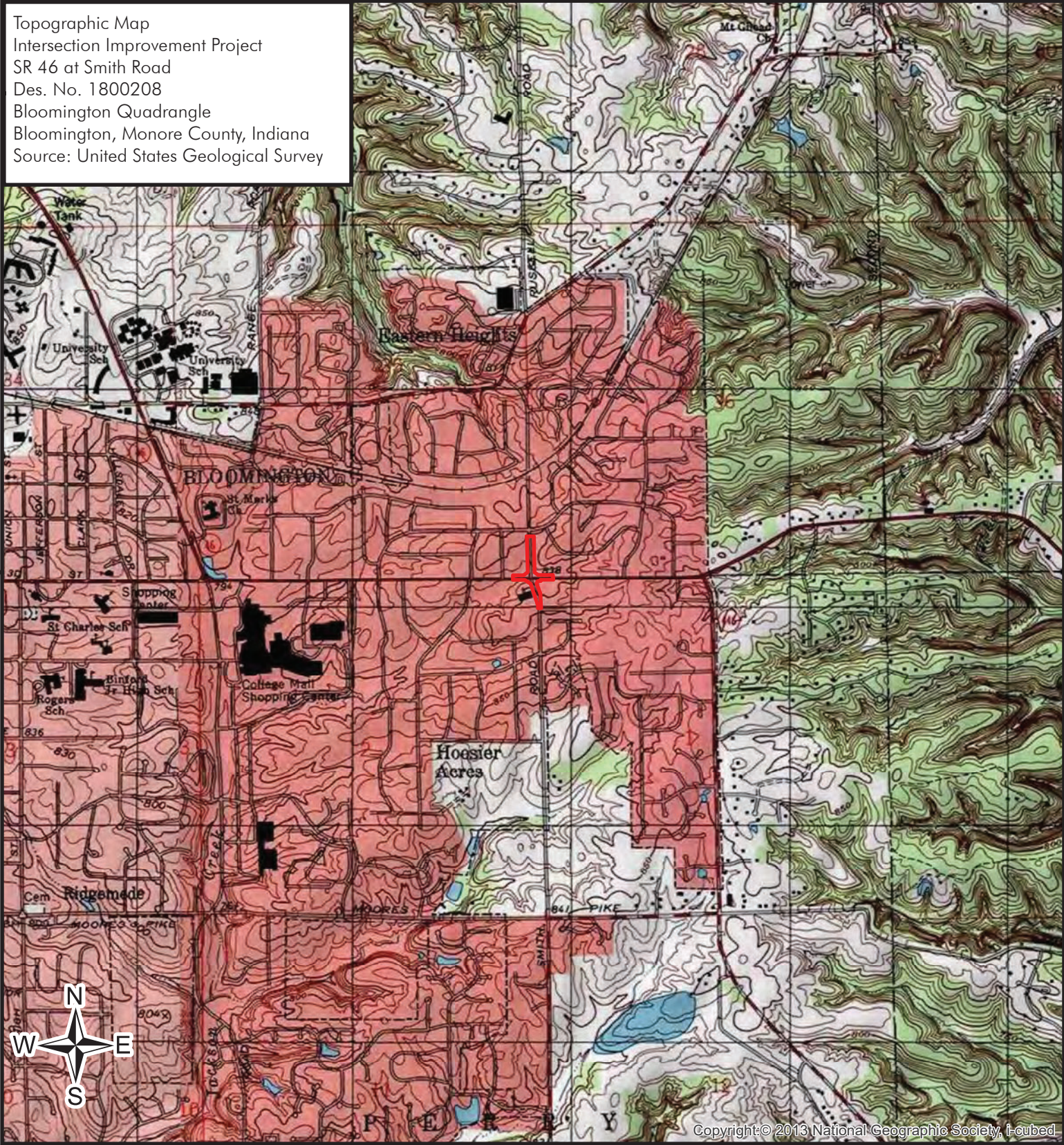
Anuradha V. Kumar, Manager
Cultural Resources Office
Environmental Services

Enclosures:
Topographic Map

Distribution List:

Indiana State Historic Preservation Officer
Indiana Landmarks, Central Regional Office
Monroe County Historian
Monroe County History Center
Bloomington Historic Preservation Commission
Bloomington Restorations, Inc.
Monroe County Planning Department for Historic Preservation Board of Review
Mayor of the City of Bloomington
Bloomington/ Monroe County MPO
City of Bloomington Planning and Transportation Department
Monroe County Commissioners
Eastern Shawnee Tribe of Oklahoma
Miami Tribe of Oklahoma
Peoria Tribe of Indians of Oklahoma
Pokagon Band of Potawatomi Indians
Delaware Tribe of Indians, Oklahoma

Topographic Map
Intersection Improvement Project
SR 46 at Smith Road
Des. No. 1800208
Bloomington Quadrangle
Bloomington, Monro County, Indiana
Source: United States Geological Survey



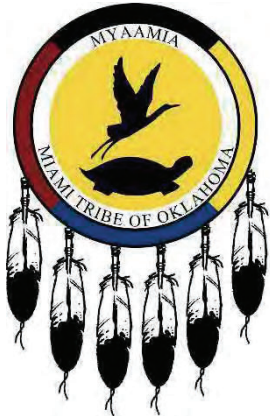
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 Project Location



C - 9



Miami Tribe of Oklahoma

3410 P St. NW, Miami, OK 74354 • P.O. Box 1326, Miami, OK 74355
 Ph: (918) 541-1300 • Fax: (918) 542-7260
www.miamination.com



Via email: smiller@indot.IN.gov

September 19, 2019

Shaun Miller
 Archaeological Team Lead
 Cultural Resources Office, Indiana DOT
 575 North Pennsylvania Street
 Indianapolis, IN 46204

Re: Des. No. 1800208 SR 46 and Smith Road Intersection Improvement Project, Bloomington, Monroe County, Indiana – Comments of the Miami Tribe of Oklahoma

Dear Mr. Miller:

Aya, kikwehsitoole – I show you respect. My name is Diane Hunter, and I am the Tribal Historic Preservation Officer for the Federally Recognized Miami Tribe of Oklahoma. In this capacity, I am the Miami Tribe's point of contact for all Section 106 issues.

The Miami Tribe offers no objection to the above-mentioned project at this time, as we are not currently aware of existing documentation directly linking a specific Miami cultural or historic site to the project site. However, as this project is within the aboriginal homelands of the Miami Tribe, if any human remains or Native American cultural items falling under the Native American Graves Protection and Repatriation Act (NAGPRA) or archaeological evidence is discovered during any phase of this project, the Miami Tribe requests immediate consultation with the entity of jurisdiction for the location of discovery. In such a case, please contact me at 918-541-8966 or by email at dhunter@miamination.com to initiate consultation.

The Miami Tribe accepts the invitation to serve as a consulting party to the proposed project. In my capacity as Tribal Historic Preservation Officer I am the point of contact for consultation.

Respectfully,

Diane Hunter
 Tribal Historic Preservation Officer

Division of Historic Preservation & Archaeology · 402 W. Washington Street, W274 · Indianapolis, IN 46204-2739
Phone 317-232-1646 · Fax 317-232-0693 · dhpa@dnr.IN.gov · www.IN.gov/dnr/historic



September 25, 2019

Connie Zeigler
Green 3, LLC
1104 Prospect Street
Indianapolis, Indiana 46203

Federal Agency: Indiana Department of Transportation (“INDOT”),
on behalf of Federal Highway Administration, Indiana Division (“FHWA”)

Re: Early coordination letter for the State Road 46 and Smith Road Intersection Improvement Project in
Bloomington, Monroe County, Indiana (Des. No. 1800208; DHPA No. 24327)

Dear Ms. Zeigler:

Pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 306108), 36 C.F.R. Part 800, and the “Programmatic Agreement (PA) Among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation and the Indiana State Historic Preservation Officer Regarding the Implementation of the Federal Aid Highway Program In the State of Indiana,” the staff of the Indiana State Historic Preservation Officer (“Indiana SHPO” or “INDNR-DHPA”) has reviewed your August 27, review request submittal form, which enclosed INDOT’s early coordination letter, which we received on August 30, 2019 for the aforementioned project.


We are not aware of any parties who should be invited to participate in the Section 106 consultation on this federal undertaking, beyond those whom INDOT already has invited. In your next regular correspondence on this project, please advise us as to which of the invited consulting parties has accepted the invitation.

We look forward to reviewing the proposed area of potential effects and the reports on investigations of above-ground cultural resources and archaeological resources that the early coordination letter indicated will be forthcoming.

The Indiana SHPO staff’s archaeological reviewer for this project is Wade T. Tharp, and the structures reviewer is Danielle Kauffmann. However, if you have a question about the Section 106 process, please contact initially the INDOT Cultural Resources staff members who are assigned to this project.

In all future correspondence about the State Road 46 and Smith Road Intersection Improvement Project in Bloomington, Monroe County, Indiana (Des. No. 1800208), please refer to DHPA No. 24327.

Very truly yours,


Beth K. McCord
Deputy State Historic Preservation Officer

BKM:DMK:dmk

emc: Michelle Allen, FHWA
Anuradha Kumar, INDOT
Shaun Miller, INDOT
Susan Branigin, INDOT
Shirley Clark, INDOT
Connie Zeigler, Green 3, LLC
Wade T. Tharp, INDNR-DHPA
Danielle Kauffmann, INDNR-DHPA

Karen Wood

From: Karen Wood
Sent: Thursday, May 21, 2020 1:05 PM
To: Tharp, Wade; Kauffmann, Danielle M
Cc: Carpenter, Patrick A; Branigin, Susan; Miller, Shaun (INDOT); akumar@indot.in.gov
Subject: FHWA Project: Des. No. 1800208; SR 46 and Smith Road Intersection Improvement Project, Monroe County, Indiana
Attachments: SR46andSmithRd_des1800208_Distributionletter_2020-5-21.pdf

Des. No.: 1800208
Project Description: Intersection Improvement Project
Location: Bloomington, Bloomington Township, Monroe County, Indiana

The Indiana Department of Transportation, with funding from the Federal Highway Administration, proposes to proceed with the State Road (SR) 46 and Smith Road Intersection Improvement Project, Des. No. 1800208. The Section 106 Early Coordination Letter for this project was originally distributed on July 30, 2019.

As part of Section 106 of the National Historic Preservation Act, a Historic Property Short Report has been prepared and is ready for review and comment by consulting parties.

Please review this documentation located in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with any comments that you may have. If a hard copy of the materials is needed, please respond to this email with your request as soon as you can.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment. Tribal consulting parties may enter the process at any time and are encouraged to respond to this notification with any comments or concerns at their earliest convenience. Tribal contacts may contact Shaun Miller at smiller@indot.in.gov or 317-233-6795 or Michelle Allen at FHWA at michelle.allen@dot.gov or 317-226-7344.

Thank you in advance for your input,

Karen Wood

Environmental and Cultural Resources Manager

g r e e n • 3



Historic Fountain Square
 1104 Prospect Street
 Indianapolis, IN 46203

p 317.634.4110
 f 866.422.2046 (toll free)

"Let the science and research of the historian find the fact and let his imagination and art make clear its significance."

George Trevelyan

Karen Wood

From: Miller, Shaun (INDOT) <smiller@indot.IN.gov>
Sent: Thursday, May 21, 2020 3:19 PM
To: Diane Hunter
Cc: Karen Wood; Carpenter, Patrick A
Subject: FW: FHWA Project: Des. No. 1800208; SR 46 and Smith Road Intersection Improvement Project, Monroe County, Indiana
Attachments: SR46andSmithRd_des1800208_Distributionletter_2020-5-21.pdf

Des. No.: **1800208**
Project Description: **Intersection Improvement Project**
Location: **Bloomington, Bloomington Township, Monroe County, Indiana**

The Indiana Department of Transportation, with funding from the Federal Highway Administration, proposes to proceed with the State Road (SR) 46 and Smith Road Intersection Improvement Project, Des. No. 1800208. The Section 106 Early Coordination Letter for this project was originally distributed on July 30, 2019.

As part of Section 106 of the National Historic Preservation Act, a Historic Property Short Report has been prepared and is ready for review and comment by consulting parties.

Please review this documentation located in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with any comments that you may have. If a hard copy of the materials is needed, please respond to this email with your request as soon as you can.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment. Tribal consulting parties may enter the process at any time and are encouraged to respond to this notification with any comments or concerns at their earliest convenience. Tribal contacts may contact Shaun Miller at smiller@indot.in.gov or 317-233-6795 or Michelle Allen at FHWA at michelle.allen@dot.gov or 317-226-7344.

Thank you in advance for your input,

Shaun Miller
 INDOT, Cultural Resources Office
 Archaeology Team Lead
 (317)233-6795



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N642
Indianapolis, Indiana 46204

PHONE: (317) 234-5168

Eric Holcomb, Governor
Joe McGuinness, Commissioner

May 21, 2020

This letter was sent to the listed parties.

RE: State Road 46 and Smith Road Intersection Improvement Project, Monroe County, Indiana,
Des. No. 1800208, DHPA No. 24327

Dear Consulting Party,

The Indiana Department of Transportation (INDOT), with funding from the Federal Highway Administration (FHWA), proposes to proceed with the SR 46 and Smith Road Intersection Improvements Project, Des. No. 1800208.

This letter is part of the Section 106 review process for this project. Section 106 of the National Historic Preservation Act requires federal agencies to take into account the effects of their undertakings on historic and archaeological properties. We are requesting comments from you regarding the possible effects of this project. Please use the above Des. Number and project description in your reply and your comments will be incorporated into the formal environmental study.

A Section 106 early coordination letter was distributed on August 27, 2019.

The proposed undertaking is on SR 46 at the intersection with Smith Road, in Monroe County, Indiana. It is within Bloomington and Perry Townships, Unionville USGS Topographic Quadrangle in Sections 1, 2, 35, and 36, Townships 8 and 9 North, Range 1 West.

The purpose of this project is to provide a solution that reduces congestion and improves pedestrian accessibility. The need for the project is due to the high average daily traffic volume for a collector road.

SR 46, traveling east-west, consists of two twelve-foot lanes in each direction with no median. To the west of the intersection there is sidewalk on the north side with a trail on the south side of SR 46; to the east there is sidewalk only on the south side of SR 46. Smith Road, traveling south-north, consists of one ten-foot lane in each direction with four-foot wide bike lanes north of the intersection; south of the intersection, Smith Road consists of one twelve-foot lane in each direction with a six-foot-wide sidewalk located on the west side of the road. Curb and gutters are extant along all facilities in each direction. Within project limits, there are various commercial and residential driveway access points.

The project proposes to provide exclusive left-turn lanes on Smith Road. Smith Road would be widened to accommodate the additional turn lane on both the north and south approaches. The new lane configuration for the southbound approach for Smith Road consists of a travel lane in each direction, a left-turn lane, and two bike lanes. The new lane configuration for the northbound approach of Smith Road consists of a travel lane in each direction and a left-turn lane. It is anticipated that curb, gutter, storm sewers and driveway approaches will be reconstructed along Smith Road to the north and south of the intersection.

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It is anticipated that the project will require approximately 0.14 acre of right-of-way acquisition: 0.06 acre of permanent and 0.08 acre of temporary right-of-way. No relocations of residences or businesses are expected for this project. The letting date is 2023.

Crawford, Murphy, and Tilly is under contract with INDOT to advance the environmental documentation for the referenced project. Green 3, LLC has been subcontracted to complete the Section 106 documentation for the project.

In accordance with 36 CFR 800.2 (c), you were invited to become a consulting party as part of the Section 106 process, or you are hereby invited to become a consulting party as part of the Section 106 process. Entities that have previously accepted consulting party status--as well as additional entities that are currently being invited to become consulting parties--are identified in the attached list.

The Section 106 process involves efforts to identify historic properties potentially affected by the undertaking, to assess the undertaking's effects and to seek ways to avoid, minimize, or mitigate any adverse effects on historic properties. For more information regarding the protection of historic resources, please see the Advisory Council on Historic Preservation's guide: *Protecting Historic Properties: A Citizen's Guide to Section 106 Review* available online at <https://www.achp.gov/sites/default/files/documents/2017-01/CitizenGuide.pdf>.

The Area of Potential Effects (APE) is the area in which the proposed project may cause alterations in the character or use of historic resources. The APE contains no resources listed in the National Register of Historic Places (NRHP).

A historian who meets the Secretary of the Interior's Professional Qualification Standards identified and evaluated above-ground resources within the APE for potential eligibility for the NRHP. As a result of the historic property identification and evaluation efforts, no above-ground resources are recommended as eligible for listing in the NRHP.

Concerning archaeological resources, Christopher Jackson, M.S., RPA, an INDOT Qualified Professional archaeologist, review the proposed project area and ascertained that the proposed SR 46 and Smith Road Intersection Improvement project will not likely affect archaeological resources based on the project scope and setting. All work will occur in previously disturbed soils. This consists of existing rights-of-way with the associated drainage ditches, as well as sidewalks, paved parking lot, underground utilities, overhead electric lines, and residential developments. According to SHAARD, the Cultural Resources Section of the Indiana Department of Transportation conducted an archaeological records review of the proposed intersection improvement of SR 46 and Smith Road; the review occurred in 2007 and it determined that due to the amount of disturbance in the proposed area, that a Phase Ia archaeological field investigation was not warranted (Laswell 2007). SHAARD also indicated that no archaeological sites have been recorded either in or in close proximity to the project area. Because the proposed project is confined to the excavation work only occurring in previously disturbed soils, there are no archaeological concerns and no further work is recommended. However, state law (Indiana Code 14-21-1-27 and -29) requires that if any prehistoric or historic archaeological artifacts or human remains are uncovered during construction, demolition, or earth moving activities, the discovery must be report to the Department of Natural Resources within two (2) business days.

The Historic Property Short Report is available for review in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE). You are invited to review these documents and to respond with comments on any historic resource impacts incurred as a result of this project so that an environmental report can be completed. We also welcome

your related opinions and other input to be considered in the preparation of the environmental document. If you prefer a hard-copy of this material, please respond to this email with your request within seven (7) days.

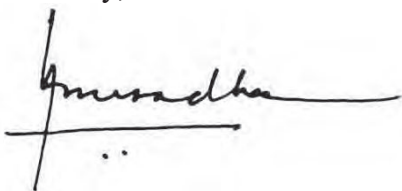
Please review the information and comment within thirty (30) calendar days of receipt. If you indicate that you do not desire to be a consulting party or if you have not previously accepted consulting party status and you do not respond to this letter, you will not be included on the list of consulting parties for this project and will not receive further information about the project unless the design changes.

For questions concerning specific project details, you may contact Karen Wood of Green 3, LLC at 317.634.4110 or karen@green3studio.com. All future responses regarding the proposed project should be forwarded to Green 3, LLC at the following address:

Karen Wood
Environmental and Cultural Resources Manager
Green 3, LLC
Historic Fountain Square
1104 Prospect Street
Indianapolis, Indiana, 46203
karen@green3studio.com

Tribal contacts may contact Shaun Miller at smiller@indot.in.gov or 317-233-6795 or Michelle Allen at FHWA at michelle.allen@dot.gov or 317-226-7344.

Sincerely,



Anuradha V. Kumar, Manager
Cultural Resources Office
Environmental Services

Distribution List:
Indiana SHPO
Miami Tribe of Oklahoma

Division of Historic Preservation & Archaeology · 402 W. Washington Street, W274 · Indianapolis, IN 46204-2739
 Phone 317-232-1646 · Fax 317-232-0693 · dhpa@dnr.IN.gov · www.IN.gov/dnr/historic



June 24, 2020

Karen Wood
 Green 3, LLC
 1104 Prospect Street
 Indianapolis, Indiana 46203

Federal Agency: Indiana Department of Transportation (“INDOT”),
 on behalf of Federal Highway Administration (“FHWA”)

Re: Historic property short report (Zeigler, 5/2020), and additional information, for SR 46
 and Smith Road intersection improvement project in the City of Bloomington, Monroe
 County, Indiana (Des. No. 1800208; DHPA No. 24327)

Dear Ms. Wood:

Pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 306108), 36 C.F.R. Part 800, and the “Programmatic Agreement (PA) Among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation and the Indiana State Historic Preservation Officer Regarding the Implementation of the Federal Aid Highway Program In the State of Indiana,” the staff of the Indiana State Historic Preservation Officer (“Indiana SHPO staff” or “INDNR-DHPA”) has reviewed your May 21, 2020, cover letter, which contained additional information regarding archaeological resources, and which enclosed the aforementioned historic property short report (“HPSR”; Zeigler, 5/2020), all of which we received, May 21, 2020.

The area of potential effects (“APE”) proposed in the historic property short report (“HPSR”; Zeigler, 5/2020) appears to be of appropriate size to encompass the geographic area in which direct or indirect effects of a project of this nature could occur.

In regard to buildings and structures, for the purposes of the Section 106 review of this undertaking, we agree with the conclusions of the HPSR that there are no above-ground historic properties listed in or eligible for inclusion in the National Register of Historic Places (“NRHP”) within the project’s APE.

In regard to archaeology, based on the submitted information and the documentation available to the staff of the Indiana SHPO, we have not identified any currently known archaeological resources listed in or eligible for inclusion in the NRHP within the proposed project area. However, this identification is subject to the ground-disturbing project-related activities remaining within areas disturbed by previous construction of a recent and non-historical nature. If archaeological deposits are encountered from the post-contact period, they will be evaluated regarding their eligibility for the NRHP in consultation with the staff of the Indiana SHPO. Please contact our office if such deposits are encountered. The archaeological recording must be done in accordance with the Secretary of the Interior’s “Standards and Guidelines for Archaeology and Historic Preservation” (48 F.R. 44716) and a report of the archaeological documentation must be submitted to our office for review and comment.

If any prehistoric or historic archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 and Indiana Code 14-21-1-29) requires that the discovery be reported to Indiana Department of Natural Resources, Division of Historic Preservation and Archaeology (“INDNR-DHPA”), within two (2) business days. In that event, please call (317) 232-1646. Be advised that adherence to Indiana Code 14-21-1-

Karen Wood
June 24, 2020
Page 2

27 and Indiana Code 14-21-1-29 does not obviate the need to adhere to applicable federal statutes and regulations, including but not limited to 36 C.F.R. Part 800.

Unless another consulting party raises concerns about the conclusions of the HPSR and archaeology short report, it might now be time to ask INDOT for a finding.

The structures reviewer on the Indiana SHPO staff for this project is Danielle Kauffmann, and the archaeological reviewer is Wade T. Tharp. However, if you have a question about our comments or about the review process, we ask that you initially direct your question to a staff member of the INDOT Cultural Resources Office who has been assigned to this project.

In all future correspondence regarding the SR 46 and Smith Road intersection improvement project in Bloomington, Monroe County (Des. No. 1800208), please refer to DHPA No. 24327.

Very truly yours,



Beth K. McCord
Deputy State Historic Preservation Officer

BKM:DMK:WTT:wtt

emc: Erica Tait, FHWA
Anuradha Kumar, INDOT
Susan Branigin, INDOT
Shaun Miller, INDOT
Shirley Clark, INDOT
Karen Wood, Green 3, LLC
Danielle Kauffmann, INDNR-DHPA
Wade T. Tharp, INDNR-DHPA

State Road (SR) 46 and Smith Road Intersection Improvements

HISTORIC PROPERTY SHORT REPORT

Bloomington, Monroe County, Indiana

Des. No. 1800208

May 2020



Prepared for:
Crawford, Murphy, and Tilly

By:

Connie Zeigler
Green 3, LLC
Historic Fountain Square
1104 Prospect Street
Indianapolis, IN 46203



p. 317.634.4110

f. 866.422.2046

connie@green3studio.com

Management Summary

This report documents the identification and evaluation efforts for properties included in the Area of Potential Effects (APE) for the State Road (SR) 46 and Smith Road Intersection Improvement Project, in Bloomington, Monroe County, Indiana (Des. No. 1800208). Above-ground resources located within the project APE were identified and evaluated in accordance with Section 106, National Historic Preservation Act (NHPA) of 1966, as amended and the regulations implementing Section 106 (36 CFR Part 800).

As a result of the NHPA, as amended, and CFR Part 800, federal agencies are required to take into account the impact of federal undertakings upon historic properties in the area of the undertaking. Historic properties include buildings, structures, sites, objects, and/or districts that are eligible for or listed in the National Register of Historic Places (NRHP). As this project is receiving funding from the Federal Highway Administration (FHWA), it is subject to a Section 106 review.

The APE contains no properties listed in the NRHP. The APE contains no properties that are recommended eligible for listing in the NRHP.

PROJECT	DESIGNATION
1800208	1800208
CONTRACT	
R-41465	

INDIANA DEPARTMENT OF TRANSPORTATION



ROAD PLANS

ROUTE: SR 46 AT SMITH ROAD
PROJECT NO.

1800208 P.E.
1800208 R/W
1800208 CONST.

Project Description:

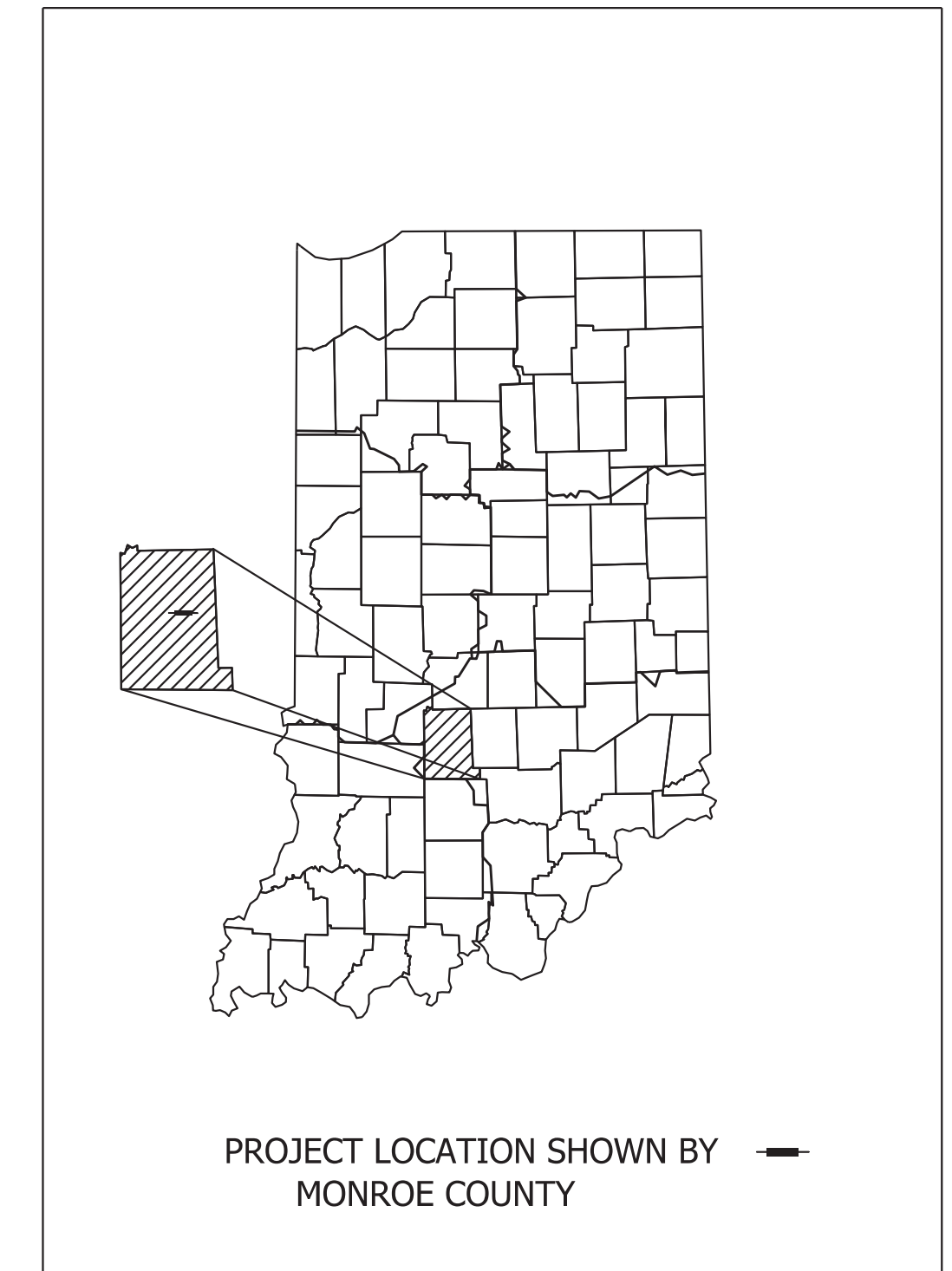
Intersection Improvement project at SR 46 and Smith Road, located in the City of Bloomington, Indiana Section 35, T-9-N, R-1-W and Section 36, T-9-N, R-1-W, Bloomington Township, Monroe County, Indiana Section 2, T-8-N, R-1-W and Section 1, T-8-N, R-1-W, Perry Township, Monroe County, Indiana



Note to Reviewer:
Stage 2 Plans Not for Construction

Location Map
Monroe County
Scale: 1" = 4,000'

TRAFFIC DATA	Smith Rd	SR 46
A.A.D.T. (2018)	6,380 V.P.D.	14,785 V.P.D.
A.A.D.T. (2043)	7,576 V.P.D.	17,567 V.P.D.
D.H.V. (2043)	687 V.P.H.	1,191 V.P.H.
DIRECTIONAL DISTRIBUTION	50 %	50 %
TRUCKS	5.26 % A.A.D.T. 3.72 % D.H.V.	5.01% A.A.D.T. 4.34% D.H.V.
DESIGN DATA	Smith Rd	SR 46
DESIGN SPEED	30 M.P.H.	40 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	MAJOR COLLECTOR (URBAN)	PRINCIPAL ARTERIAL (URBAN)
RURAL/URBAN	URBAN (INTERMEDIATE)	URBAN (INTERMEDIATE)
TERRAIN	LEVEL	LEVEL
ACCESS CONTROL	NONE	NONE



LATITUDE: 39°09'51" LONGITUDE: 86°28'52"

GROSS LENGTH:	0.18 MI.
NET LENGTH:	0.18 MI.
MAX. GRADE:	5.0 %

STAGE 2
APRIL 9, 2021

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

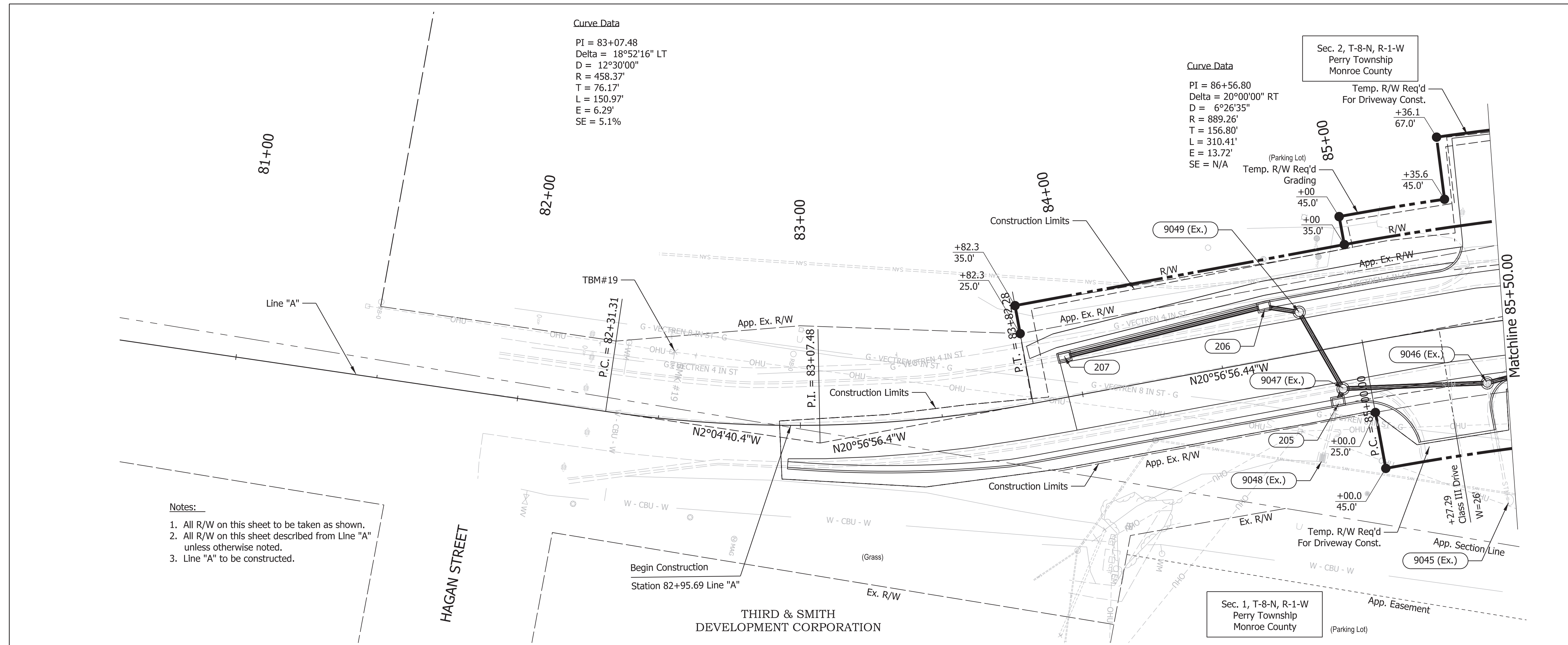
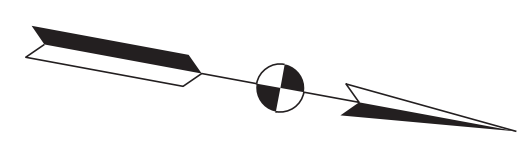
Copyright CMT, Inc.
8790 PURDUE ROAD
INDIANAPOLIS, IN 46268-6128
PHONE: (317) 298-4500

NOT FOR CONSTRUCTION

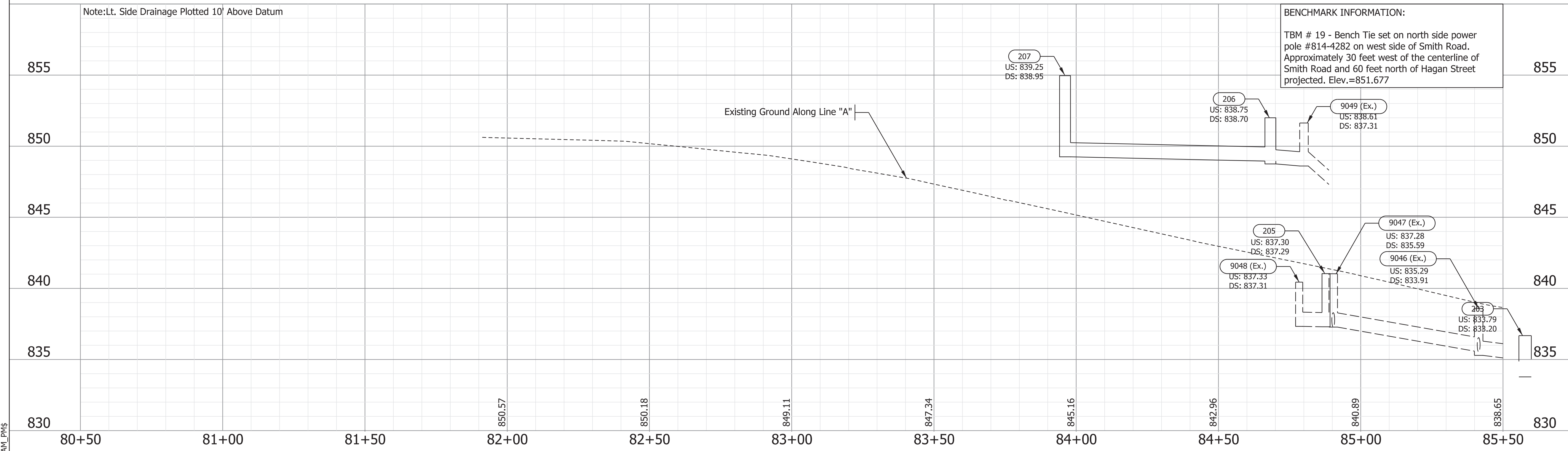
PLANS PREPARED BY:	CRAWFORD, MURPHY & TILLY INC.	(317) 298-4500 PHONE NUMBER
CERTIFIED BY:		4/16/2021 DATE
APPROVED FOR LETTING:	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

BRIDGE FILE	N/A
DESIGNATION	1800208
SURVEY BOOK	SHEETS
Electronic	1 of 80
CONTRACT	PROJECT
R-41465	1800208

Plot_Plot_Drawing_Times_SAM_PMS



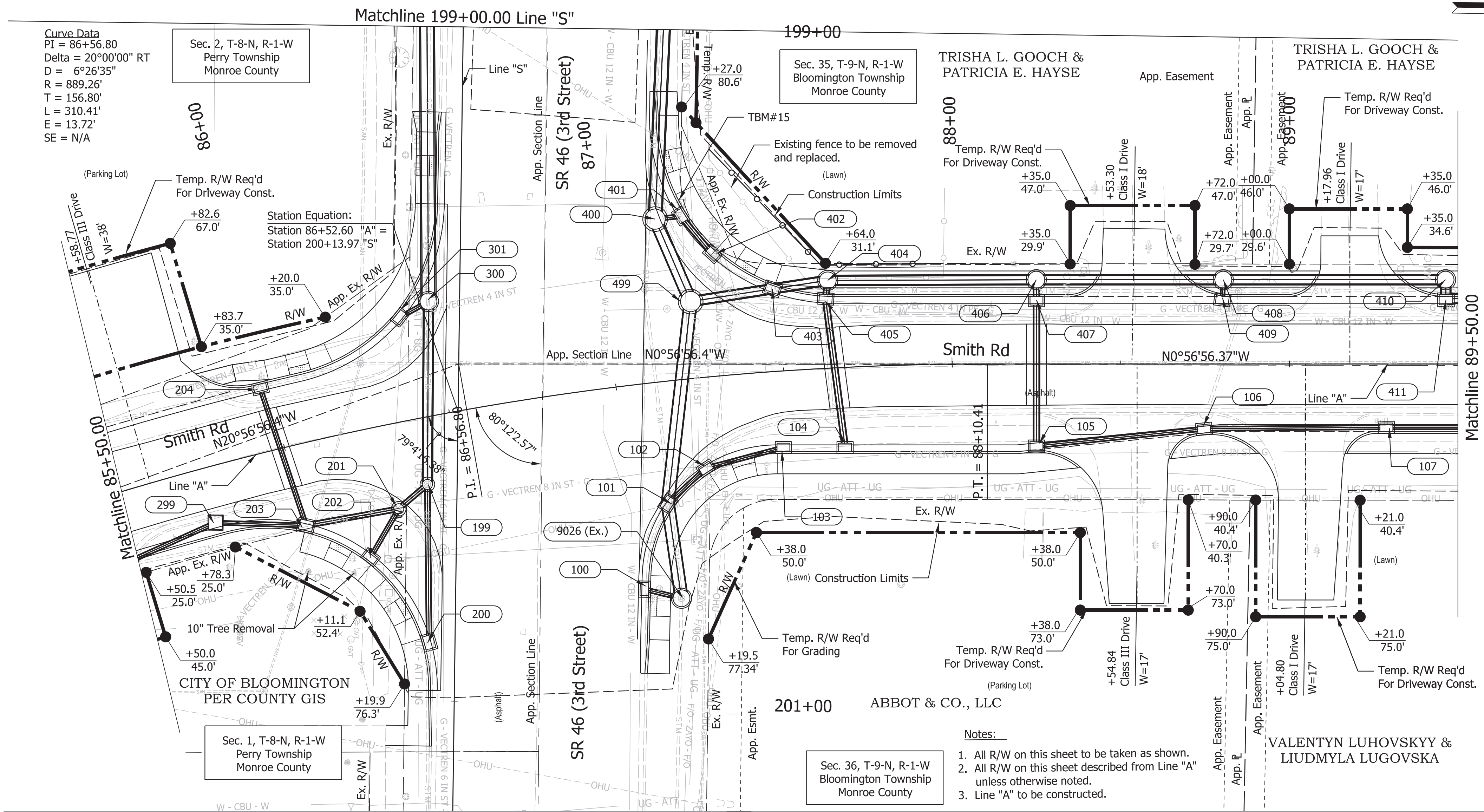
- Notes:**
1. All R/W on this sheet to be taken as shown.
 2. All R/W on this sheet described from Line "A" unless otherwise noted.
 3. Line "A" to be constructed.



BENCHMARK INFORMATION:
 TBM # 19 - Bench Tie set on north side power pole #814-4282 on west side of Smith Road. Approximately 30 feet west of the centerline of Smith Road and 60 feet north of Hagan Street projected. Elev.=851.677

NOT FOR CONSTRUCTION	RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	4/16/2021	DATE
	DESIGNED: \$DESBY\$	4/16/2021	DRAWN: \$DWNBY\$	4/16/2021
	CHECKED: \$DESCHKBY\$	4/16/2021	CHECKED: \$DWNCHKBY\$	4/16/2021
INDIANA DEPARTMENT OF TRANSPORTATION				
PLAN AND PROFILE Sta. 81+50.00 to 85+50.00 Line "A"				

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	1800208
SURVEY BOOK	SHEETS
Electronic	21 of 80
CONTRACT	PROJECT
R-41465	1800208



Curve Data
 PI = 86+56.80
 Delta = 20°00'00" RT
 D = 6°26'35"
 R = 889.26'
 T = 156.80'
 L = 310.41'
 E = 13.72'
 SE = N/A

Sec. 2, T-8-N, R-1-W
 Perry Township
 Monroe County

Sec. 35, T-9-N, R-1-W
 Bloomington Township
 Monroe County

TRISHA L. GOOCH &
 PATRICIA E. HAYSE

TRISHA L. GOOCH &
 PATRICIA E. HAYSE

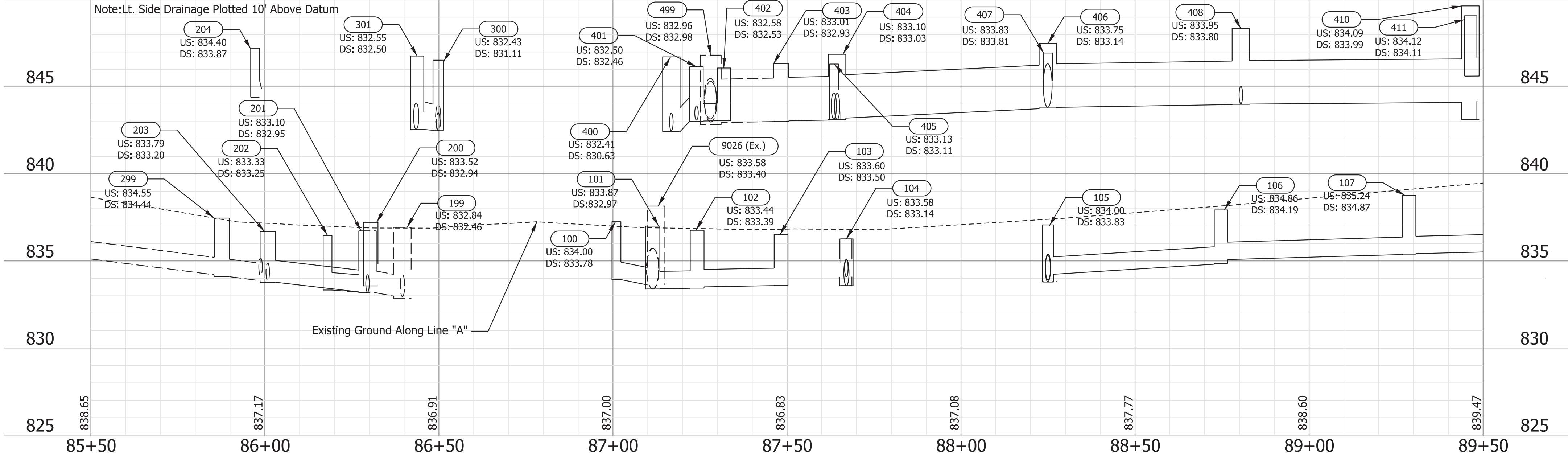
Sec. 1, T-8-N, R-1-W
 Perry Township
 Monroe County

Sec. 36, T-9-N, R-1-W
 Bloomington Township
 Monroe County

VALENTYN LUHOVSKYY &
 LIUDMYLA LUGOVSKA

- Notes:
1. All R/W on this sheet to be taken as shown.
 2. All R/W on this sheet described from Line "A" unless otherwise noted.
 3. Line "A" to be constructed.

BENCHMARK INFORMATION:
 TBM # 15 - Cut "X" on SW bolt of traffic signal strain pole. Located at the NW intersection of E. 3rd Street and N. Smith. Approximately 50 feet west of the centerline of W. Smith and 30 feet north of the centerline of 3rd Street. Elev.=837.965



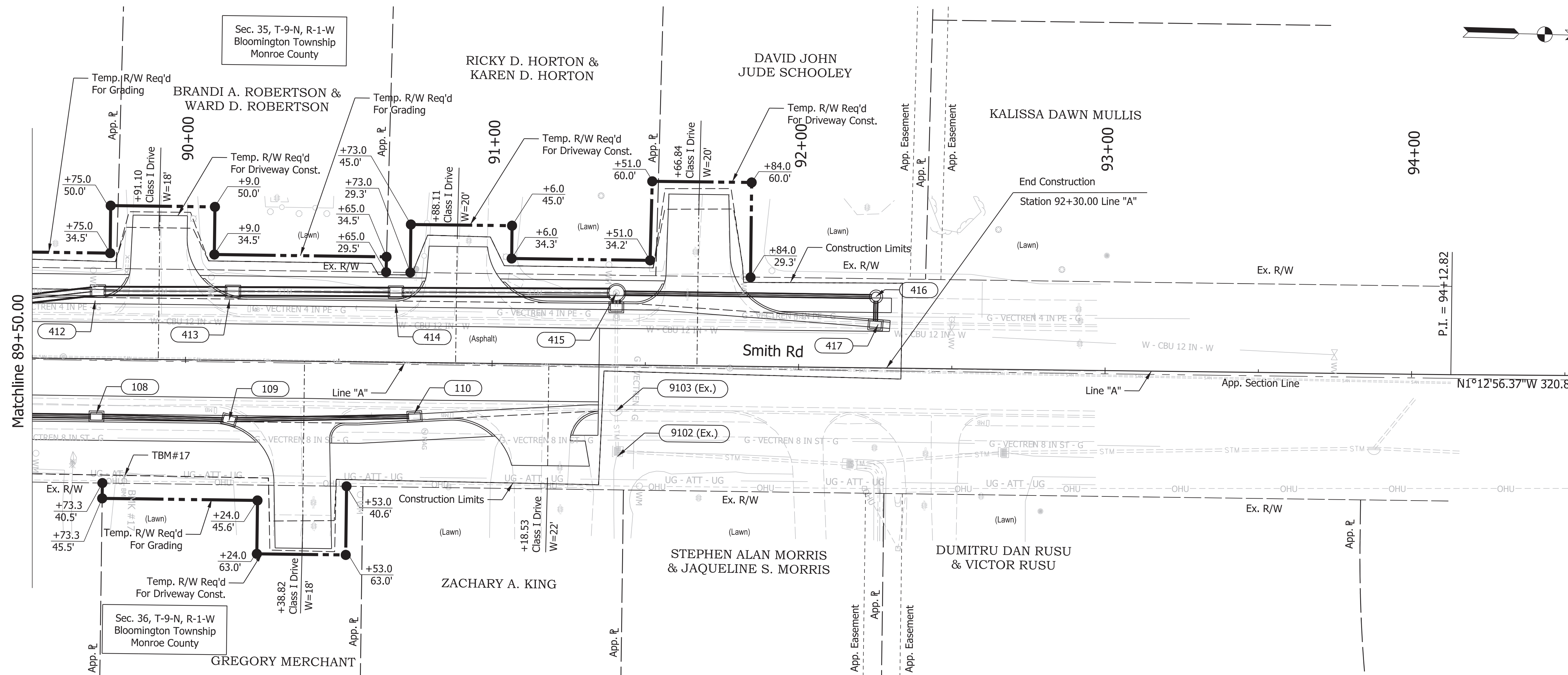
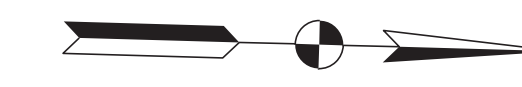
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	4/16/2021	DATE
DESIGNED: \$DESBY\$	4/16/2021	DRAWN: \$DWNBY\$	4/16/2021
CHECKED: \$DESCHKBY\$	4/16/2021	CHECKED: \$DWNCHKBY\$	4/16/2021

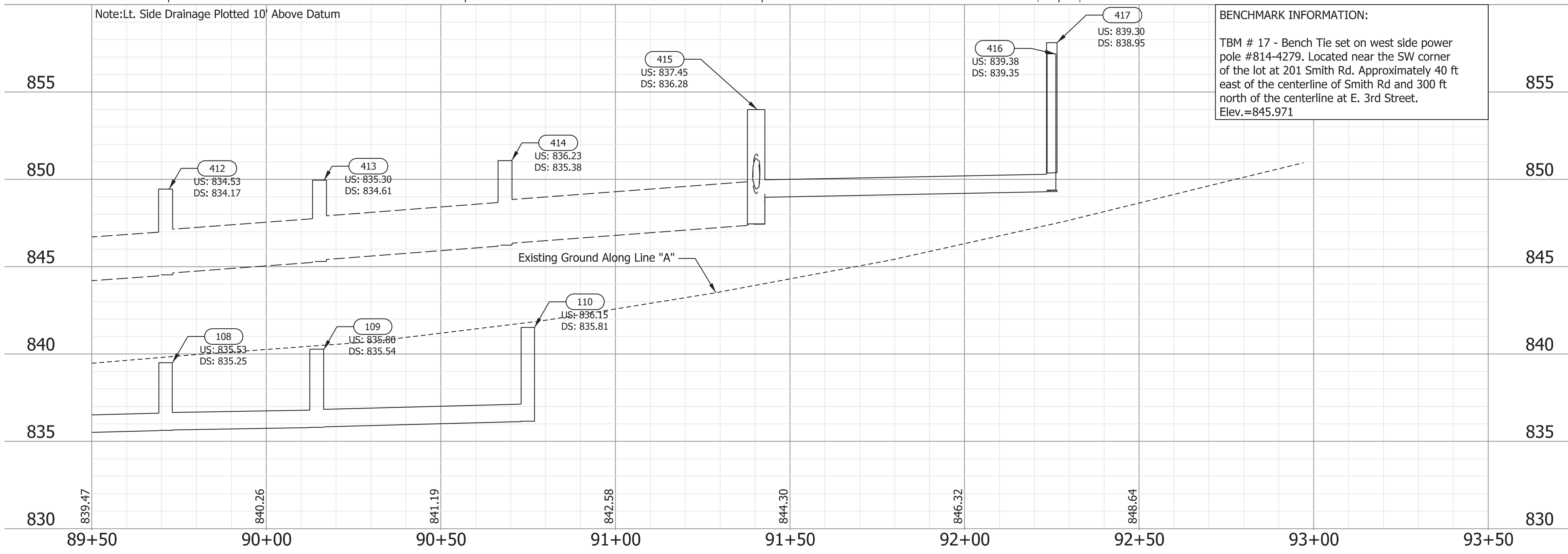
INDIANA DEPARTMENT OF TRANSPORTATION
 PLAN AND PROFILE
 Sta. 85+50.00 to 89+50.00 Line "A"

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	1800208
SURVEY BOOK	SHEETS
Electronic	22 of 80
CONTRACT	PROJECT
R-41465	1800208

Plot: L:\INDOT\18070904-11\Draw\Sheets\Sht_PP_20_02.dgn



- Notes:
1. All R/W on this sheet to be taken as shown.
 2. All R/W on this sheet described from Line "A" unless otherwise noted.
 3. Line "A" to be constructed.



Plot Date: 4/16/2021 11:56 AM

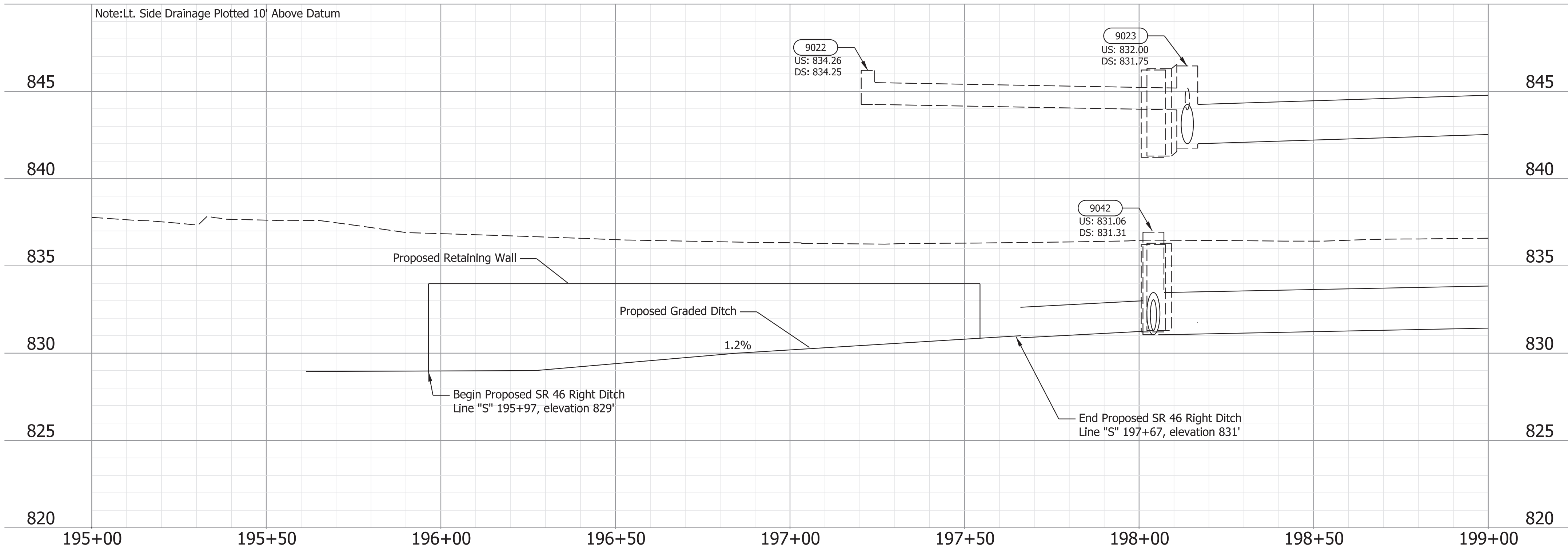
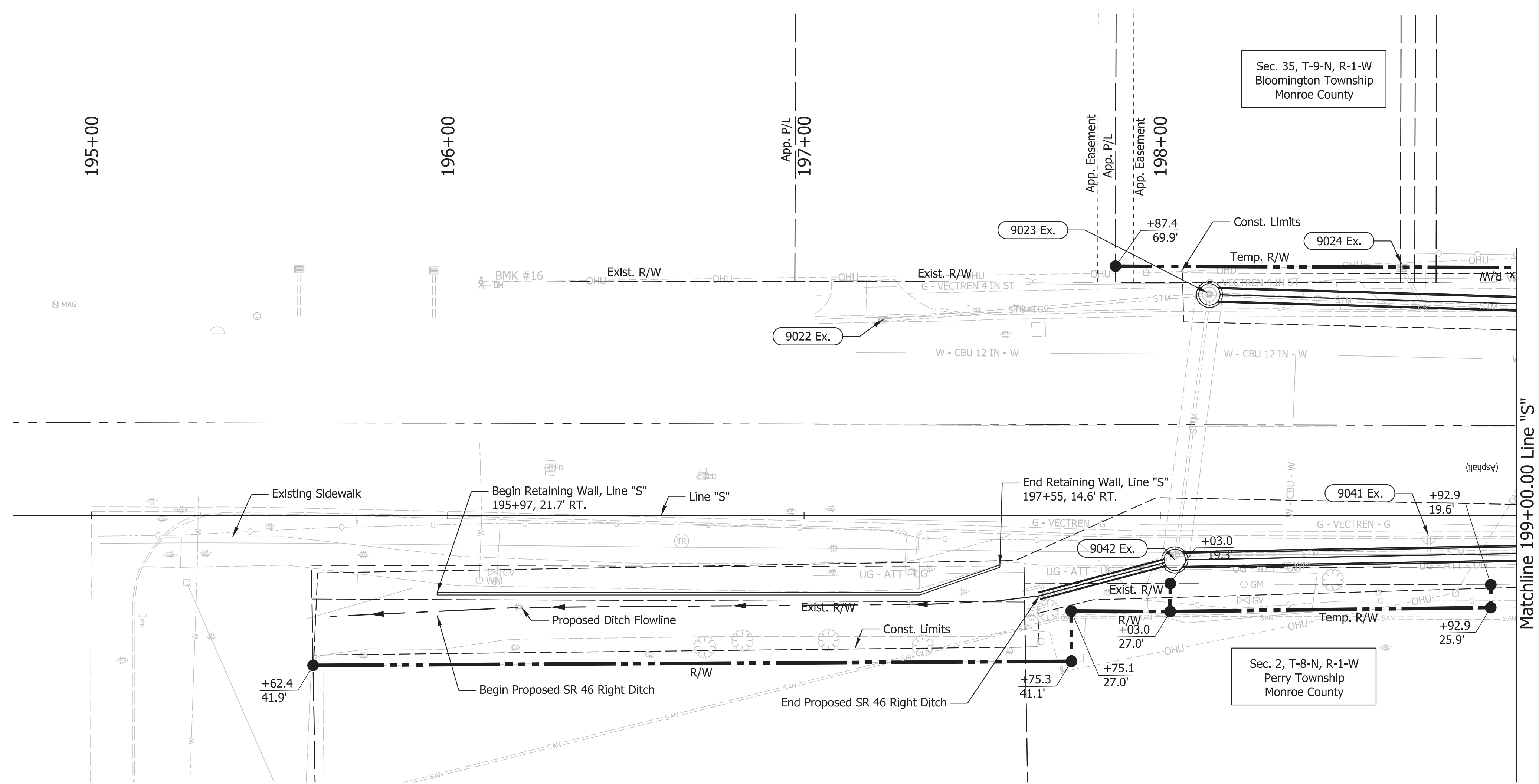
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	4/16/2021	DATE
DESIGNED: \$DESBY\$	4/16/2021	DRAWN: \$DWNBY\$	4/16/2021
CHECKED: \$DESCHKBY\$	4/16/2021	CHECKED: \$DWNCHKBY\$	4/16/2021

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
Sta. 89+50.00 to 93+50.00 Line "A"

SCALE	BRIDGE FILE
1"=20"	N/A
	DESIGNATION
	1800208
SURVEY BOOK	SHEETS
Electronic	23 of 80
CONTRACT	PROJECT
R-41465	1800208



Note: Lt. Side Drainage Plotted 10' Above Datum

NOT FOR CONSTRUCTION

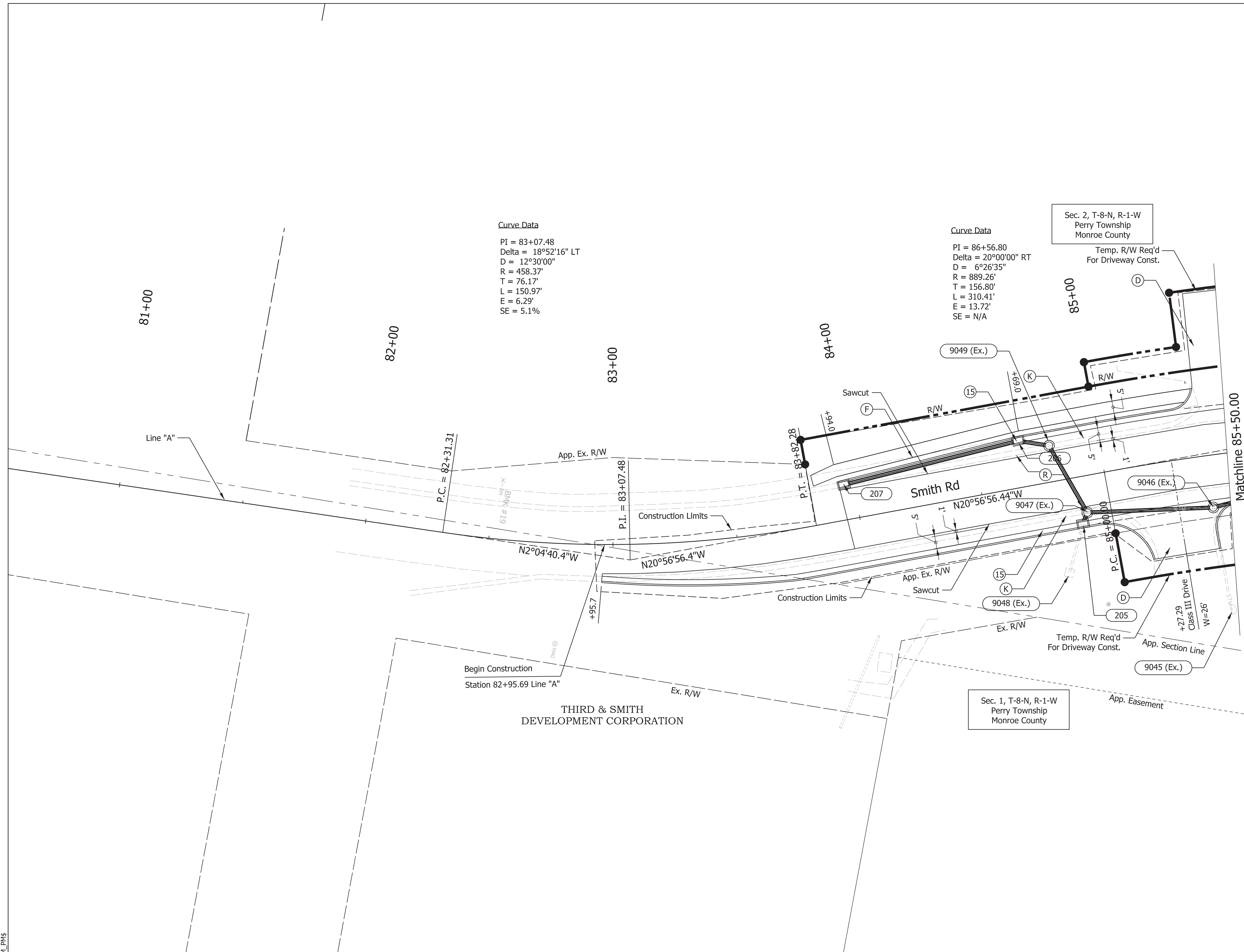
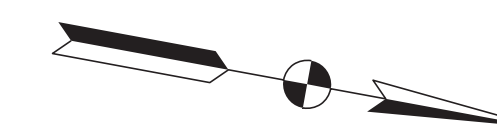
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DESIGNED: \$DESBY\$	4/16/2021	DRAWN: \$DWNBY\$	4/16/2021
CHECKED: \$DESCHKBY\$	4/16/2021	CHECKED: \$DWNCHKBY\$	4/16/2021

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
Sta. 195+00.00 to 199+00.00 Line "S"

SCALE	BRIDGE FILE
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	DESIGNATION
	1800208
SURVEY BOOK	SHEETS
Electronic	24 of 80
CONTRACT	PROJECT
R-41465	1800208

Plot: L:\INDOT\18070904-11\Draw\Sheets\Sht_PP_20_04_SR46.dgn



LEGEND		
(K)	FULL DEPTH HMA COMPOSED OF: 165 lb/syd QC/QA - HMA, 3, 70, SURFACE, 12.5 mm 440 lb/syd QC/QA - HMA, 3, 70, INTERMEDIATE, 12.5 mm 440 lb/syd QC/QA - HMA, 3, 70, BASE, 25.0 mm	(D) HMA FOR APPROACHES, TYPE C
(R)	MILL AND OVERLAY, 1.5" COMPOSED OF: 165 lb/syd QC/QA - HMA, 3, 70, SURFACE, 12.5 mm	(C) DRIVE, CONCRETE COMPOSED OF: PCCP For Approaches, 6 in. Dense Graded Subbase, 6 in. Subgrade Treatment Type II
		(P) HMA PATCHING, TYPE C
		(O) COMPACTED AGGREGATE, NO. 53
		(15) CURB AND GUTTER, CONCRETE
		(F) SIDEWALK, CONCRETE
		(S) SUBGRADE TREATMENT, TYPE IC

NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	4/16/2021	DATE
DESIGNED: \$DESBY\$	4/16/2021	DRAWN: \$DWNBY\$	4/16/2021
CHECKED: \$DESCHKBY\$	4/16/2021	CHECKED: \$DWNCHKBY\$	4/16/2021

INDIANA DEPARTMENT OF TRANSPORTATION

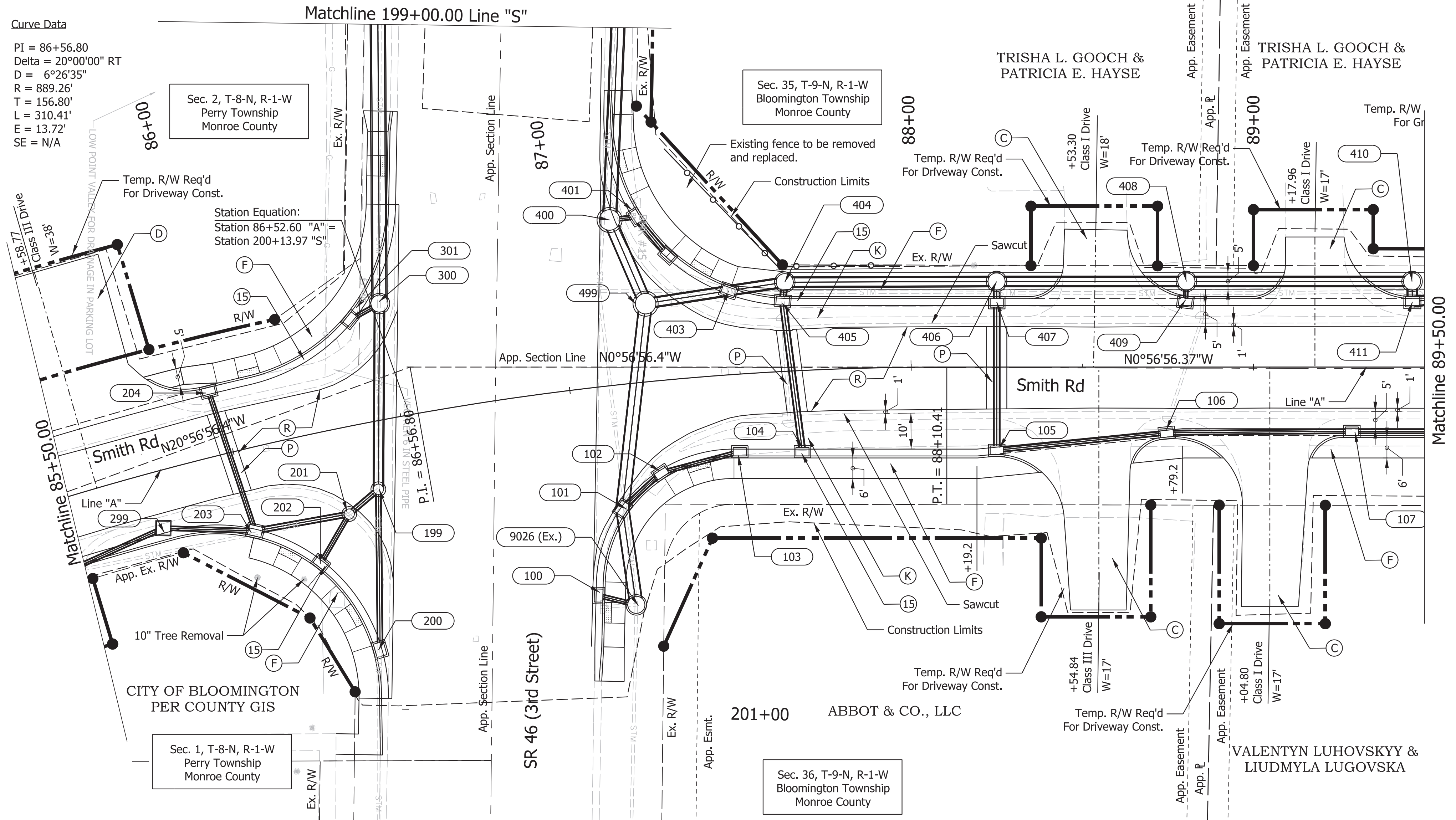
CONSTRUCTION DETAIL
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SCALE	BRIDGE FILE
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	DESIGNATION
	1800208
SURVEY BOOK	SHEETS
Electronic	26 of 80
CONTRACT	PROJECT
R-41465	1800208

Plot: L:\INDOT\18070904-11\Draw\Sheets\Sht_ConstructionDetail_20_01.dgn



- 100 Line "A"
Sta. 87+00.00, 60.5', Rt.
Inlet, B5
8' of 12" Type 2 Pipe
U.S. Inv. 834.00
D.S. Inv. 833.78
- 101 Line "A"
Sta. 87+12.00, 23.2', Rt.
Manhole, Type D Modified
59' of Ex. 2.3x3.5ft Elliptical CMP
U.S. Inv. 833.37
D.S. Inv. 832.97
- 102 Line "A"
Sta. 87+24.00, 26.7', Rt.
Inlet, C5
11' of 12" Type 2 Pipe
U.S. Inv. 833.44
D.S. Inv. 833.39
- 103 Line "A"
Sta. 87+85.00, 22.7', Rt.
Inlet, B5
20' of 12" Type 2 Pipe
U.S. Inv. 833.60
D.S. Inv. 833.50
- 104 Line "A"
Sta. 87+67.00, 23.5', Rt.
Inlet, B15
42' of 18" Type 2 Pipe
U.S. Inv. 833.58
D.S. Inv. 833.14
- 105 Line "A"
Sta. 87+85.00, 24.4', Rt.
Manhole, Type D Modified
41' of 18" Type 2 Pipe
U.S. Inv. 834.00
D.S. Inv. 833.83
- 106 Line "A"
Sta. 88+25.00, 19.2', Rt.
Inlet, C15
46' of 12" Type 2 Pipe
U.S. Inv. 834.86
D.S. Inv. 834.19
- 107 Line "A"
Sta. 88+75.00, 18.8', Rt.
Inlet, C15
50' of 12" Type 2 Pipe
U.S. Inv. 835.24
D.S. Inv. 834.87
- 199 Line "A"
Sta. 86+40.00, 19.7', Rt.
Manhole, Type C Modified
50' of 18" Type 2 Pipe
U.S. Inv. 832.84
D.S. Inv. 832.46
- 200 Line "A"
Sta. 86+31.00, 66.0', Rt.
Manhole, Type C Modified
42' of Existing 15" HDPE
U.S. Inv. 833.52
D.S. Inv. 832.94
- 201 Line "A"
Sta. 86+36.00, 24.8', Rt.
Manhole, Type C Modified
6' of 12" Type 2 Pipe
U.S. Inv. 833.10
D.S. Inv. 832.95
- 202 Line "A"
Sta. 86+18.00, 37.1', Rt.
Inlet, B5
13' of 12" Type 2 Pipe
U.S. Inv. 833.33
D.S. Inv. 833.25
- 203 Line "A"
Sta. 86+00.00, 24.2', Rt.
Manhole, Type C Modified
23' of 15" Type 2 Pipe
U.S. Inv. 833.79
D.S. Inv. 833.20
- 204 Line "A"
Sta. 85+98.00, 19.4', Rt.
Inlet, B15
40' of 12" Type 2 Pipe
U.S. Inv. 834.40
D.S. Inv. 833.87
- 299 Line "A"
Sta. 85+75.00, 17.8', Rt.
Inlet, B15
40' of 12" Type 2 Pipe
U.S. Inv. 834.44
D.S. Inv. 833.87
- 300 Line "A"
Sta. 86+50.00, 33.4', Lt.
Manhole, Type C Modified
173' of 18" Type 2 Pipe
U.S. Inv. 832.43
D.S. Inv. 831.11
- 301 Line "A"
Sta. 86+44.00, 33.0', Lt.
Inlet, B15
3' of 12" Type 2 Pipe
U.S. Inv. 832.55
D.S. Inv. 832.50
- 400 Line "A"
Sta. 87+17.00, 47.9', Lt.
Manhole, Type D Modified
84' of Ex. 2.3x3.5ft Elliptical CMP
U.S. Inv. 832.41
D.S. Inv. 830.63
- 401 Line "A"
Sta. 87+25.00, 47.8', Lt.
Inlet, C15
4' of 12" Type 2 Pipe
U.S. Inv. 832.50
D.S. Inv. 832.46
- 402 Line "A"
Sta. 87+32.00, 35, Lt.
Inlet, B5
11' of 12" Type 2 Pipe
U.S. Inv. 832.58
D.S. Inv. 832.53
- 403 Line "A"
Sta. 87+50.00, 24.5', Lt.
Manhole, Type D Modified
33' of Ex. 30" Type 2 Pipe
U.S. Inv. 833.01
D.S. Inv. 832.93
- 404 Line "A"
Sta. 87+64.00, 25.9', Lt.
Manhole, Type D Modified
12' of 30" Type 2 Pipe
U.S. Inv. 833.10
D.S. Inv. 833.03
- 405 Line "A"
Sta. 87+64.00, 20.8', Lt.
Inlet, B15
2' of 18" Type 2 Pipe
U.S. Inv. 833.13
D.S. Inv. 833.11
- 406 Line "A"
Sta. 88+25.00, 25.1', Lt.
Manhole, Type D Modified
57' of 30" Type 2 Pipe
U.S. Inv. 833.75
D.S. Inv. 833.14
- 407 Line "A"
Sta. 88+25.00, 18.3', Lt.
Inlet, B15
3' of 30" Type 2 Pipe
U.S. Inv. 833.83
D.S. Inv. 833.81
- 408 Line "A"
Sta. 88+6.000, 25.1', Lt.
Manhole, Type D Modified
50' of 30" Type 2 Pipe
U.S. Inv. 833.95
D.S. Inv. 838.80
- 409 Line "A"
Sta. 88+80.00, 19.1', Lt.
Inlet, B15
2' of 12" Type 2 Pipe
U.S. Inv. 834.09
D.S. Inv. 834.00
- 410 Line "A"
Sta. 89+46.00, 25.1', Lt.
Manhole, Type D Modified
61' of 30" Type 2 Pipe
U.S. Inv. 834.09
D.S. Inv. 833.99
- 411 Line "A"
Sta. 89+46.00, 18.8', Rt.
Manhole, Type D Modified
6' of 30" Type 2 Pipe
U.S. Inv. 834.12
D.S. Inv. 834.11
- 9017 (Ex.) Line "A"
Sta. 87+12.00, 27.4', Lt.
Existing Manhole
15' of Ex. 2.3x3.5ft Elliptical CMP
U.S. Inv. 832.86
D.S. Inv. 832.53



Plot: L:\INDOT\18070904-11\Draw\Sheets\Sht_ConstructionDetail_20_02.dgn

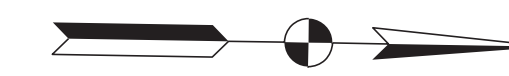
LEGEND	
(K) FULL DEPTH HMA COMPOSED OF: 165 lb/syd QC/QA - HMA, 3, 70, SURFACE, 12.5 mm 440 lb/syd QC/QA - HMA, 3, 70, INTERMEDIATE, 12.5 mm 440 lb/syd QC/QA - HMA, 3, 70, BASE, 25.0 mm	(D) HMA FOR APPROACHES, TYPE C
(R) MILL AND OVERLAY, 1.5" COMPOSED OF: 165 lb/syd QC/QA - HMA, 3, 70, SURFACE, 12.5 mm	(C) DRIVE, CONCRETE COMPOSED OF: PCCP For Approaches, 6 in. Dense Graded Subbase, 6 in. Subgrade Treatment Type II
(P) HMA PATCHING, TYPE C	(O) COMPACTED AGGREGATE, NO. 53
	(15) CURB AND GUTTER, CONCRETE
	(F) SIDEWALK, CONCRETE
	(S) SUBGRADE TREATMENT, TYPE IC

NOT FOR CONSTRUCTION

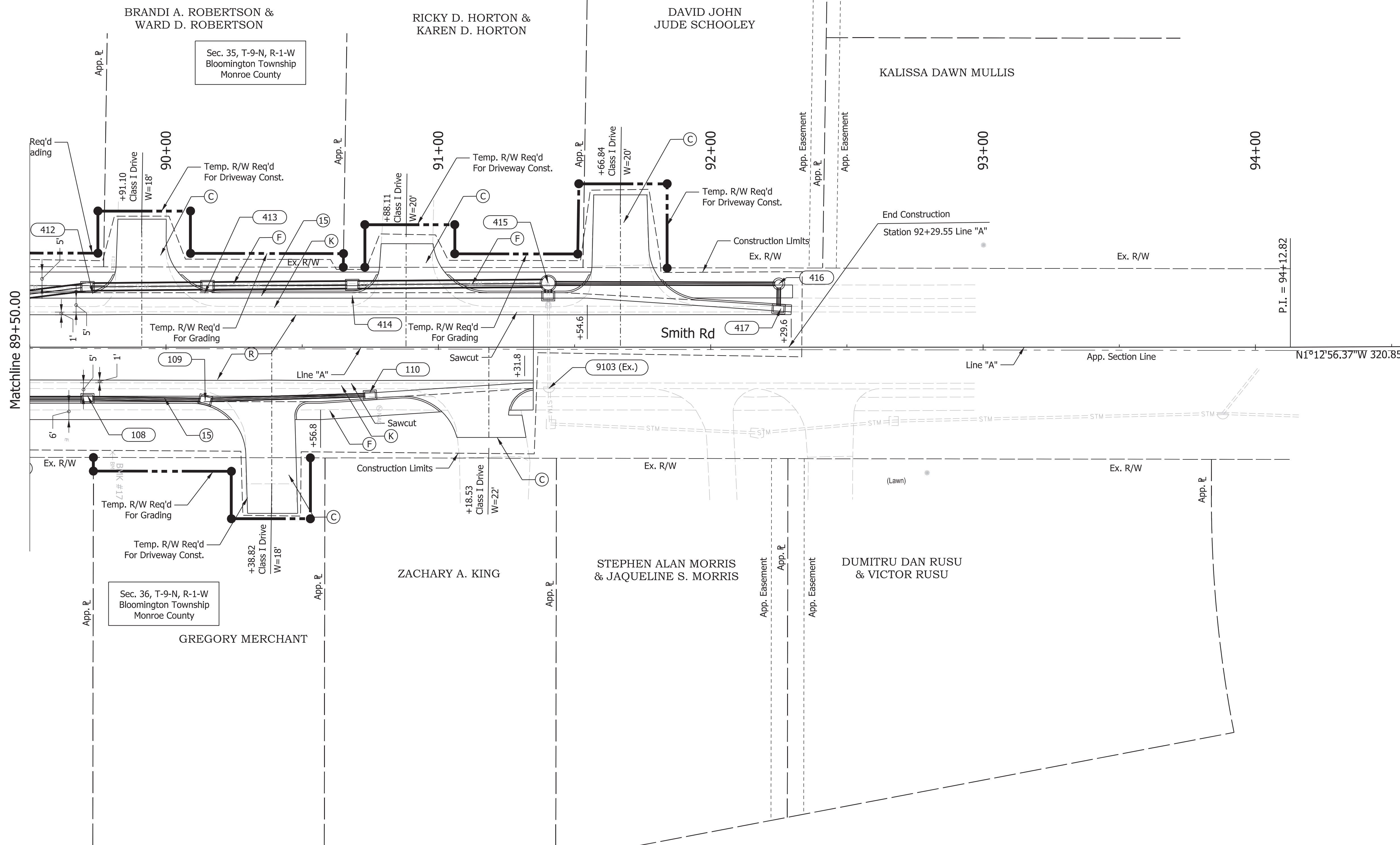
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	4/16/2021	DATE
DESIGNED: \$DESBSY\$	4/16/2021	DRAWN: \$DWNBY\$	4/16/2021
CHECKED: \$DESCHKBY\$	4/16/2021	CHECKED: \$DWNCHKBY\$	4/16/2021

INDIANA DEPARTMENT OF TRANSPORTATION	
CONSTRUCTION DETAIL	
Sta. 85+50.00 to 89+50.00 Line "A"	

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	1800208
SURVEY BOOK	SHEETS
Electronic	27 of 80
CONTRACT	PROJECT
R-41465	1800208



- 108 Line "A"
Sta. 89+29.00, 18.8', Rt.
Inlet, C15
39' of 12" Type 2 Pipe
U.S. Inv. 835.53
D.S. Inv. 835.25
- 109 Line "A"
Sta. 89+71.00, 19.6', Rt.
Inlet, C15
39' of 12" Type 2 Pipe
U.S. Inv. 835.80
D.S. Inv. 835.54
- 110 Line "A"
Sta. 90+15.00, 17.5', Rt.
Inlet, B15
57' of 12" Type 2 Pipe
U.S. Inv. 836.15
D.S. Inv. 835.81
- 412 Line "A"
Sta. 89+71.00, 19.0', Rt.
Manhole, Type D Modified
21' of Ex. 30" Type 2 Pipe
U.S. Inv. 834.53
D.S. Inv. 834.17
- 413 Line "A"
Sta. 90+15.00, 19.1', Lt.
Manhole, Type D Modified
40' of Ex. 30" Type 2 Pipe
U.S. Inv. 835.30
D.S. Inv. 834.61
- 414 Line "A"
Sta. 90+69.00, 18.7', Lt.
Manhole, Type D Modified
21' of Ex. 30" Type 2 Pipe
U.S. Inv. 836.23
D.S. Inv. 835.38
- 415 Line "A"
Sta. 91+40.00, 23.50, Lt.
Manhole, Type F Modified
67' of Ex. 30" Type 2 Pipe
U.S. Inv. 837.45
D.S. Inv. 836.28
- 416 Line "A"
Sta. 92+25.00, 23.5', Lt.
Manhole, Type D Modified
81' of 12" Type 2 Pipe
U.S. Inv. 839.30
D.S. Inv. 838.95
- 417 Line "A"
Sta. 92+25.00, 13.8', Lt.
Inlet, B15
6' of 12" Type 2 Pipe
U.S. Inv. 839.38
D.S. Inv. 839.35
- 9103 (Ex.) Line "A"
Sta. 91+41.00, 17.0', Rt.
Curb Inlet
33' of Ex. 24" Type 2 Pipe
U.S. Inv. 839.67
D.S. Inv. 839.19



Plot: D:\PROJECTS\TIMES_54M_PMS

LEGEND		
(K) FULL DEPTH HMA COMPOSED OF: 165 lb/syd QC/QA - HMA, 3, 70, SURFACE, 12.5 mm 440 lb/syd QC/QA - HMA, 3, 70, INTERMEDIATE, 12.5 mm 440 lb/syd QC/QA - HMA, 3, 70, BASE, 25.0 mm	(D) HMA FOR APPROACHES, TYPE C	(O) COMPACTED AGGREGATE, NO. 53
(R) MILL AND OVERLAY, 1.5" COMPOSED OF: 165 lb/syd QC/QA - HMA, 3, 70, SURFACE, 12.5 mm	(C) DRIVE, CONCRETE COMPOSED OF: PCCP For Approaches, 6 in. Dense Graded Subbase, 6 in. Subgrade Treatment Type II	(15) CURB AND GUTTER, CONCRETE
(P) HMA PATCHING, TYPE C	(F) SIDEWALK, CONCRETE	(S) SUBGRADE TREATMENT, TYPE IC

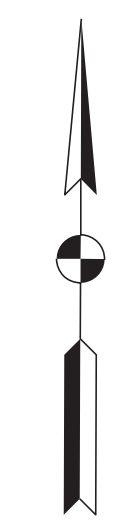
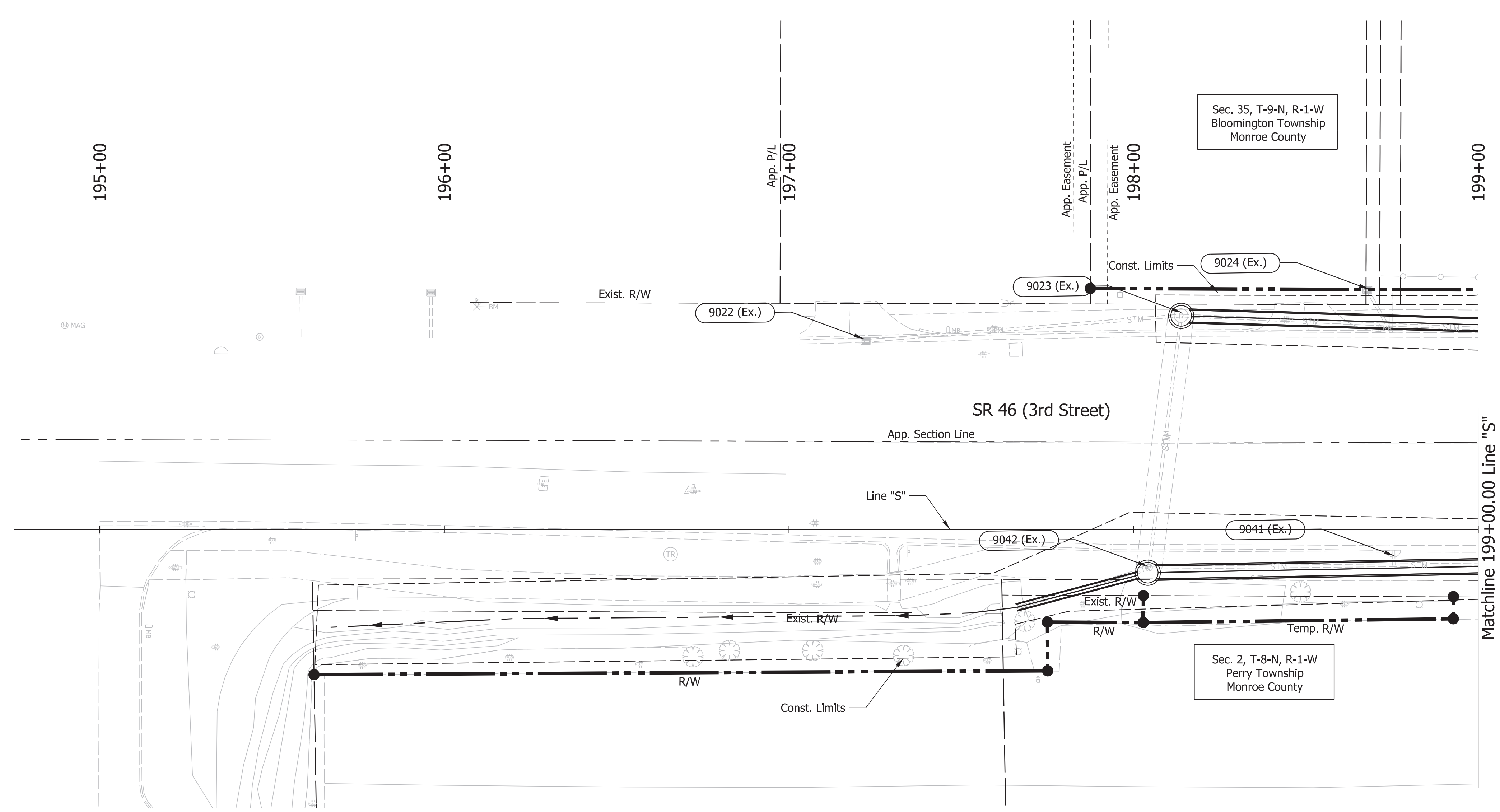
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	4/16/2021	DATE
DESIGNED: \$DESBY\$	4/16/2021	DRAWN: \$DWNBY\$	4/16/2021
CHECKED: \$DESCHKBY\$	4/16/2021	CHECKED: \$DWNCHKBY\$	4/16/2021

INDIANA DEPARTMENT OF TRANSPORTATION	
CONSTRUCTION DETAIL Sta. 89+50.00 to 93+50.00 Line "A"	

SCALE 1"=20'	BRIDGE FILE N/A
	DESIGNATION 1800208
SURVEY BOOK Electronic	SHEETS 28 of 80
CONTRACT R-41465	PROJECT 1800208

- 9022 (Ex.) Line "A"
Sta. 87+35.45, 280.9', Lt.
Existing Curb Inlet
87' of Ex. 15" HDPE
U.S. Inv. 834.25
D.S. Inv. 833.94
- 9023 (Ex.) Line "A"
Sta. 87+36.00, 135.50', Lt.
Drop Inlet
96' of Ex. 2.3x3.5ft Elliptical CMP
U.S. Inv. 830.38
D.S. Inv. 830.08
- 9024 (Ex.) Line "A"
Sta. 87+36.00, 124.0', Lt.
Existing Curb Inlet
11' of 15" HDPE
U.S. Inv. 834.25
D.S. Inv. 833.94
- 9041 (Ex.) Line "A"
Sta. 86+50.00, 150.0', Lt.
Existing Curb Inlet
3' of Ex. 15" HDPE
U.S. Inv. 832.14
- 9042 (Ex.) Line "A"
Sta. 86+50.00, 208.0', Lt.
Existing Manhole
39' of 30x46 In. Elliptical RCP
U.S. Inv. 830.08
D.S. Inv. 830.00



Plot: L:\INDOT\18070904-11\Draw\Sheets\Sht_ConstructionDetail_20_04_SR46.dgn

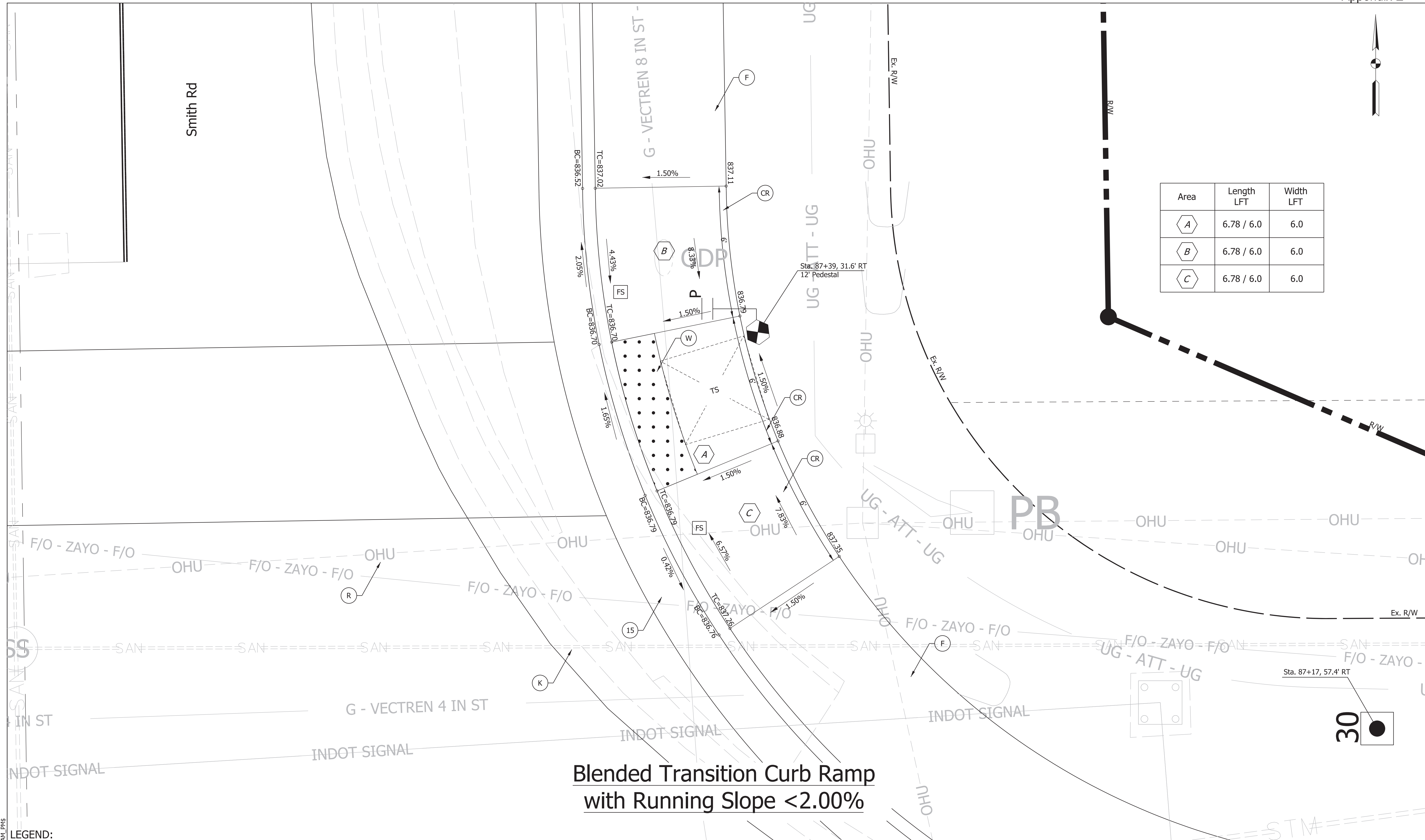
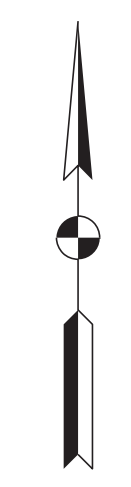
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	4/16/2021	DATE
DESIGNED: \$DESBY\$	4/16/2021	DRAWN: \$DWNBY\$	4/16/2021
CHECKED: \$DESCHKBY\$	4/16/2021	CHECKED: \$DWNCHKBY\$	4/16/2021

INDIANA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
Sta. 195+00.00 to 199+00.00 Line "S"

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	1800208
SURVEY BOOK	SHEETS
Electronic	29 of 80
CONTRACT	PROJECT
R-41465	1800208



Area	Length LFT	Width LFT
A	6.78 / 6.0	6.0
B	6.78 / 6.0	6.0
C	6.78 / 6.0	6.0

**Blended Transition Curb Ramp
with Running Slope <math>< 2.00\%</math>**

- LEGEND:**
- (F) Sidewalk, Concrete
 - (13) Curb, Concrete
 - (K) Full Depth HMA composed of:
165 lb/Sy, Type C, Surface
440 lb/Sy, Type C, Intermediate
440 lb/Sy, Type C, Base
 - (P) Pedestrian Push Button, APS
 - (CR) Curb Ramp, Concrete
 - (15) Curb and Gutter, Concrete
 - New Cantilever Signal Structure, 30' Mast Arm,
Drilled Shaft Foundation, Typ A (Max Height 22')
 - (W) Detectable Warning Surface
 - Pedestrian Indication w/ Countdown
 - (R) Mill and Overlay, 1.5" composed of:
165 lb/syd QC/QA - HMA, 3, 70, SURFACE, 12.5 mm
 - (FS) Flared Side
 - New Pedestal & Base on "A" Foundation

NOT FOR CONSTRUCTION

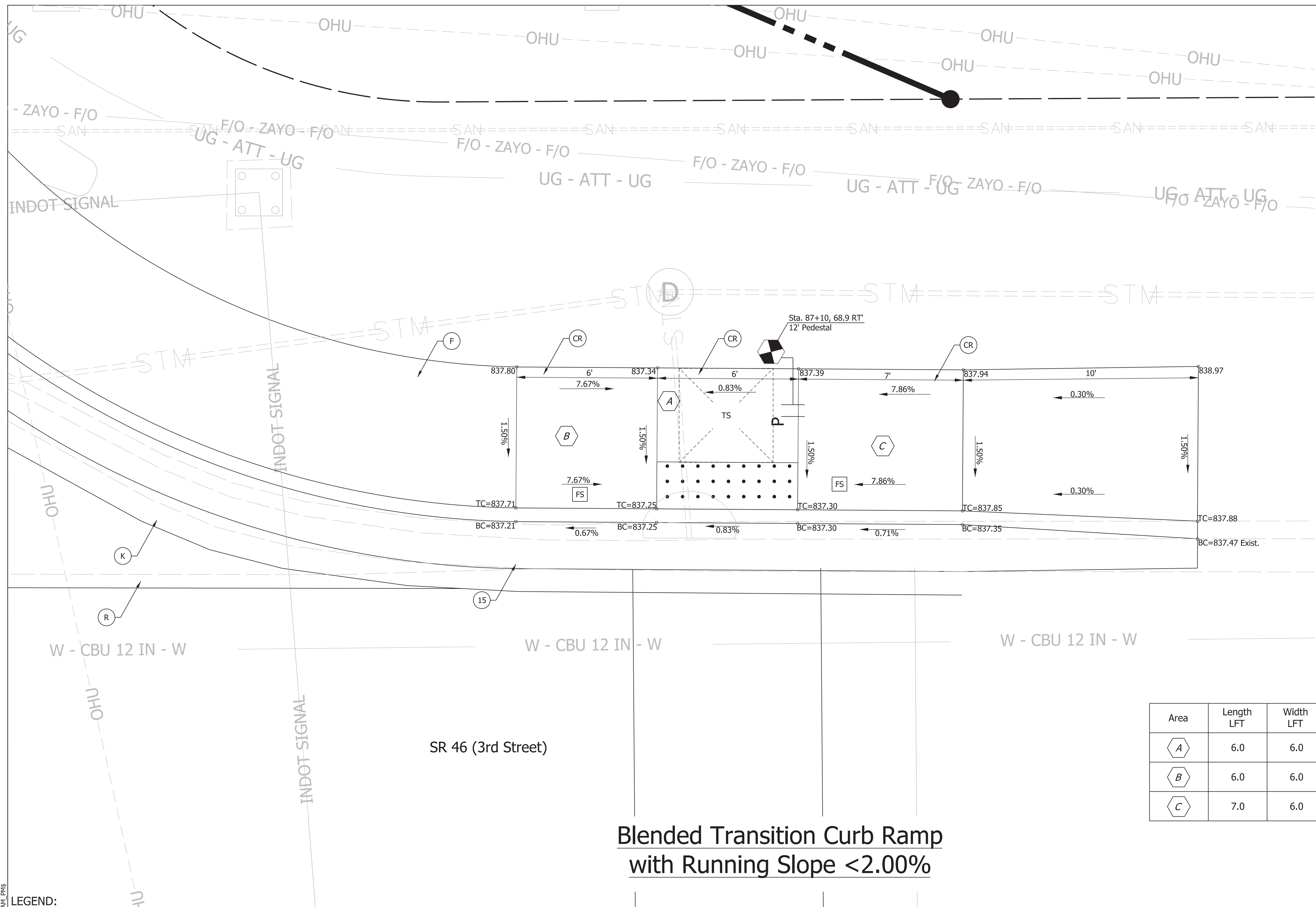
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	4/16/2021	DATE
DESIGNED: \$DESBY\$	4/16/2021	DRAWN: \$DWNBY\$	4/16/2021
CHECKED: \$DESCHKBY\$	4/16/2021	CHECKED: \$DWNCHKBY\$	4/16/2021

INDIANA DEPARTMENT OF TRANSPORTATION

**CURB RAMP DETAILS
SMITH RD NE CROSSING**

SCALE 1"=2'	BRIDGE FILE N/A
	DESIGNATION 1800208
SURVEY BOOK Electronic	SHEETS 32 of 80
CONTRACT R-41465	PROJECT 1800208

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Area	Length LFT	Width LFT
A	6.0	6.0
B	6.0	6.0
C	7.0	6.0

LEGEND:

- (F) Sidewalk, Concrete
- (CR) Curb Ramp, Concrete
- (W) Detectable Warning Surface
- (R) Mill and Overlay, 1.5" composed of:
165 lb/syd QC/QA - HMA, 3, 70, SURFACE, 12.5 mm
- (13) Curb, Concrete
- (15) Curb and Gutter, Concrete
- (K) Full Depth HMA composed of:
165 lb/Sy, Type C, Surface
440 lb/Sy, Type C, Intermediate
440 lb/Sy, Type C, Base
- (FS) Flared Side
- (P) Pedestrian Push Button, APS
- (New Cantilever Signal Structure, 30' Mast Arm, Drilled Shaft Foundation, Typ A (Max Height 22'))
- (Pedestrian Indication w/ Countdown)
- (New Pedestal & Base on "A" Foundation)

NOT FOR CONSTRUCTION

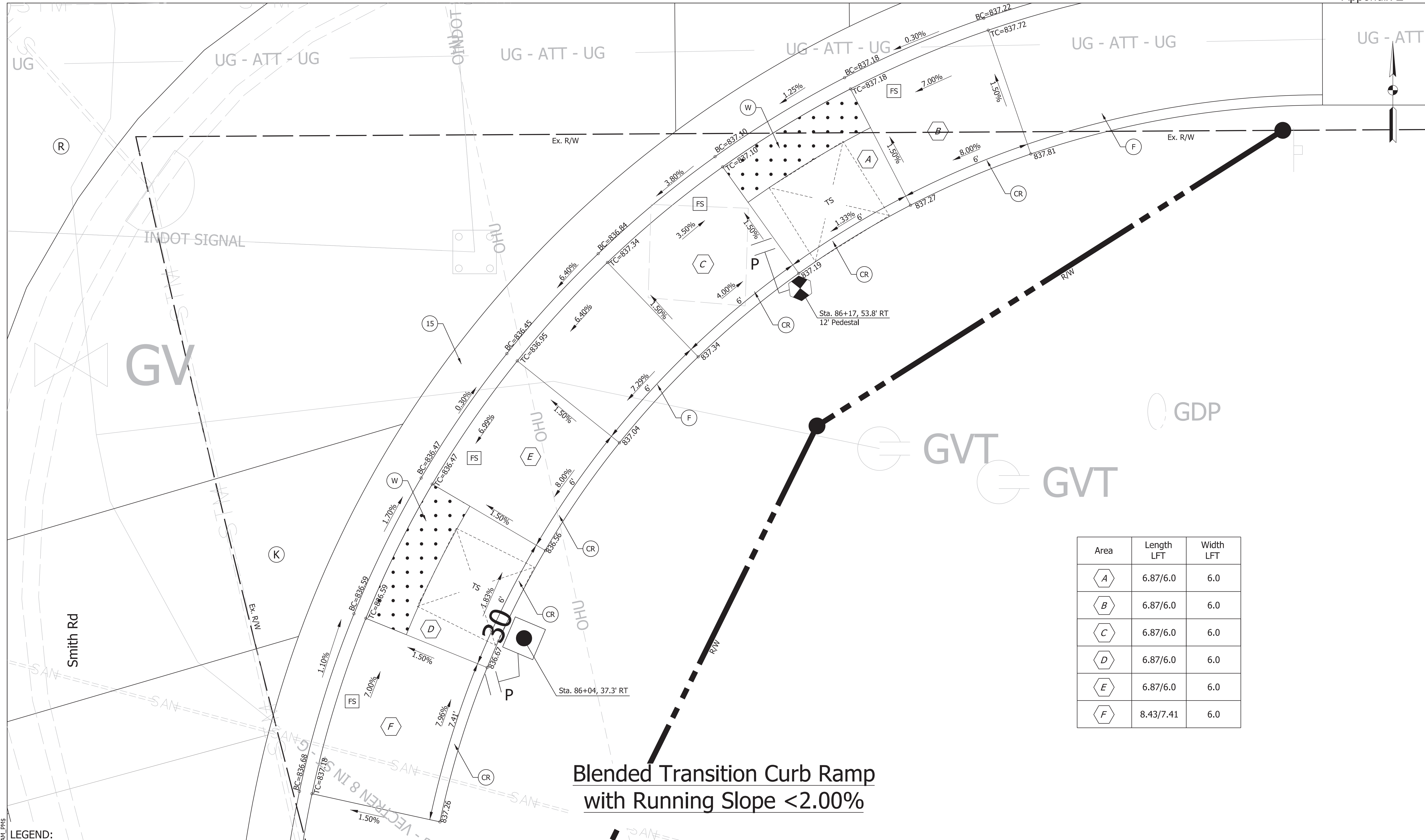
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DESIGNED: \$DESBY\$	4/16/2021	DRAWN: \$DWNBY\$	4/16/2021
CHECKED: \$DESCHKBY\$	4/16/2021	CHECKED: \$DWNCHKBY\$	4/16/2021

INDIANA DEPARTMENT OF TRANSPORTATION

**CURB RAMP DETAILS
SMITH RD NE CROSSING**

SCALE	BRIDGE FILE
1"=2'	N/A
	DESIGNATION
	1800208
SURVEY BOOK	SHEETS
Electronic	33 of 80
CONTRACT	PROJECT
R-41465	1800208

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**Blended Transition Curb Ramp
with Running Slope < 2.00%**

Area	Length LFT	Width LFT
A	6.87/6.0	6.0
B	6.87/6.0	6.0
C	6.87/6.0	6.0
D	6.87/6.0	6.0
E	6.87/6.0	6.0
F	8.43/7.41	6.0

- LEGEND:**
- (F) Sidewalk, Concrete
 - (CR) Curb Ramp, Concrete
 - (W) Detectable Warning Surface
 - (R) Mill and Overlay, 1.5" composed of:
165 lb/syd QC/QA - HMA, 3, 70, SURFACE, 12.5 mm
 - (13) Curb, Concrete
 - (15) Curb and Gutter, Concrete
 - (K) Full Depth HMA composed of:
165 lb/Sy, Type C, Surface
440 lb/Sy, Type C, Intermediate
440 lb/Sy, Type C, Base
 - (FS) Flared Side
 - (P) Pedestrian Push Button, APS
New Cantilever Signal Structure, 30' Mast Arm,
Drilled Shaft Foundation, Typ A (Max Height 22')
 - (P) Pedestrian Indication w/ Countdown
 - (P) New Pedestal & Base on "A" Foundation

NOT FOR CONSTRUCTION

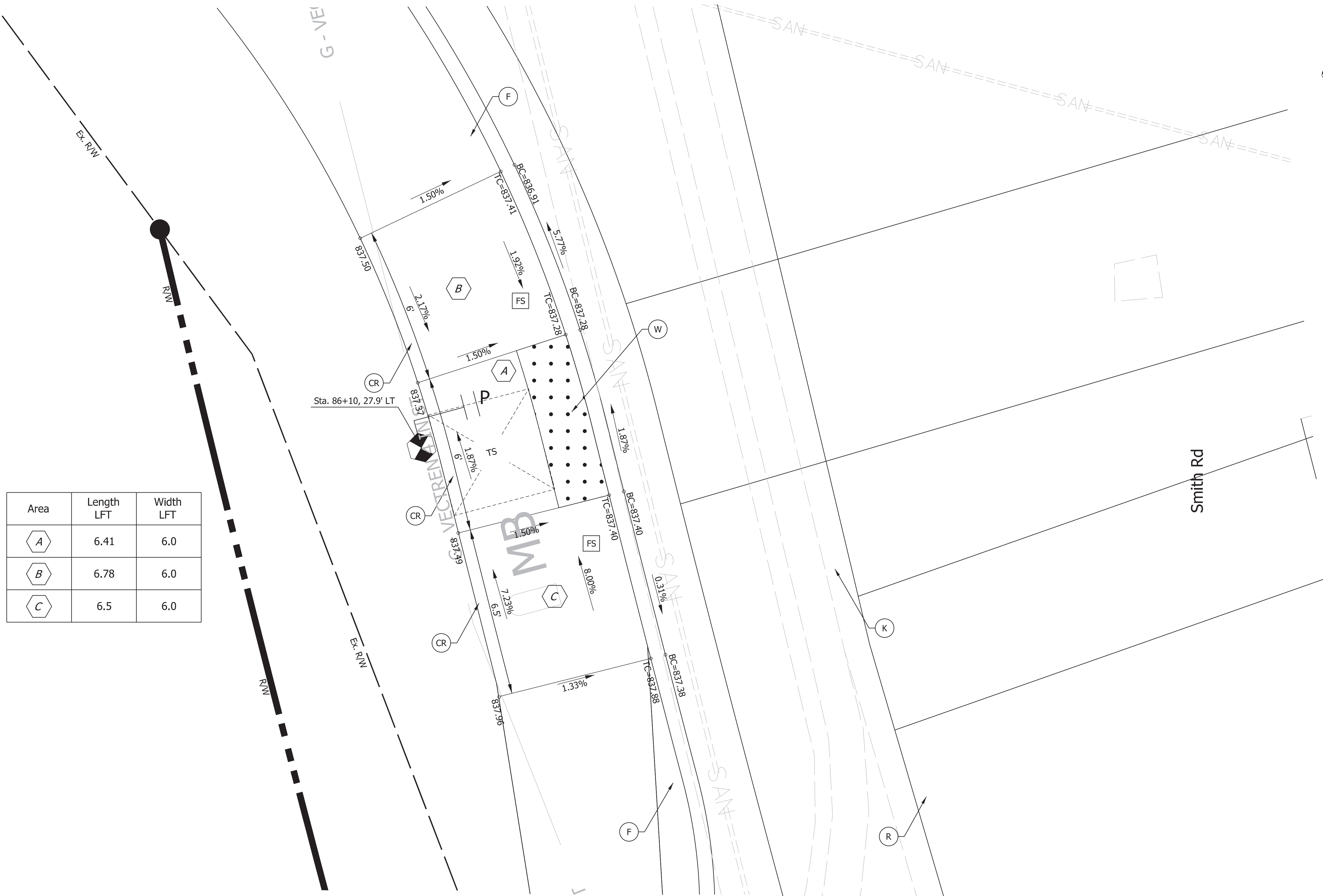
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DESIGNED: \$DESBY\$	4/16/2021	DRAWN: \$DWNBY\$	4/16/2021
CHECKED: \$DESCHKBY\$	4/16/2021	CHECKED: \$DWNCHKBY\$	4/16/2021

**INDIANA DEPARTMENT
OF TRANSPORTATION**

**CURB RAMP DETAILS
SR46 & SMITH RD SE CROSSING**

SCALE 1"=2'	BRIDGE FILE N/A
	DESIGNATION 1800208
SURVEY BOOK Electronic	SHEETS 34 of 80
CONTRACT R-41465	PROJECT 1800208

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Area	Length LFT	Width LFT
A	6.41	6.0
B	6.78	6.0
C	6.5	6.0

**Blended Transition Curb Ramp
with Running Slope <math>< 2.00\%</math>**

LEGEND:

- (F) Sidewalk, Concrete
- (CR) Curb Ramp, Concrete
- (W) Detectable Warning Surface
- (R) Mill and Overlay, 1.5" composed of:
165 lb/syd QC/QA - HMA, 3, 70, SURFACE, 12.5 mm
- (13) Curb, Concrete
- (15) Curb and Gutter, Concrete
- (FS) Flared Side
- (K) Full Depth HMA composed of:
165 lb/Sy, Type C, Surface
440 lb/Sy, Type C, Intermediate
440 lb/Sy, Type C, Base
- (P) Pedestrian Push Button, APS
- (New Cantilever Signal Structure, 30' Mast Arm, Drilled Shaft Foundation, Typ A (Max Height 22))
- (Pedestrian Indication w/ Countdown)
- (New Pedestal & Base on "A" Foundation)

NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	4/16/2021	DATE
DESIGNED: \$DESBY\$	4/16/2021	DRAWN: \$DWNBY\$	4/16/2021
CHECKED: \$DESCHKBY\$	4/16/2021	CHECKED: \$DWNCHKBY\$	4/16/2021

INDIANA DEPARTMENT OF TRANSPORTATION

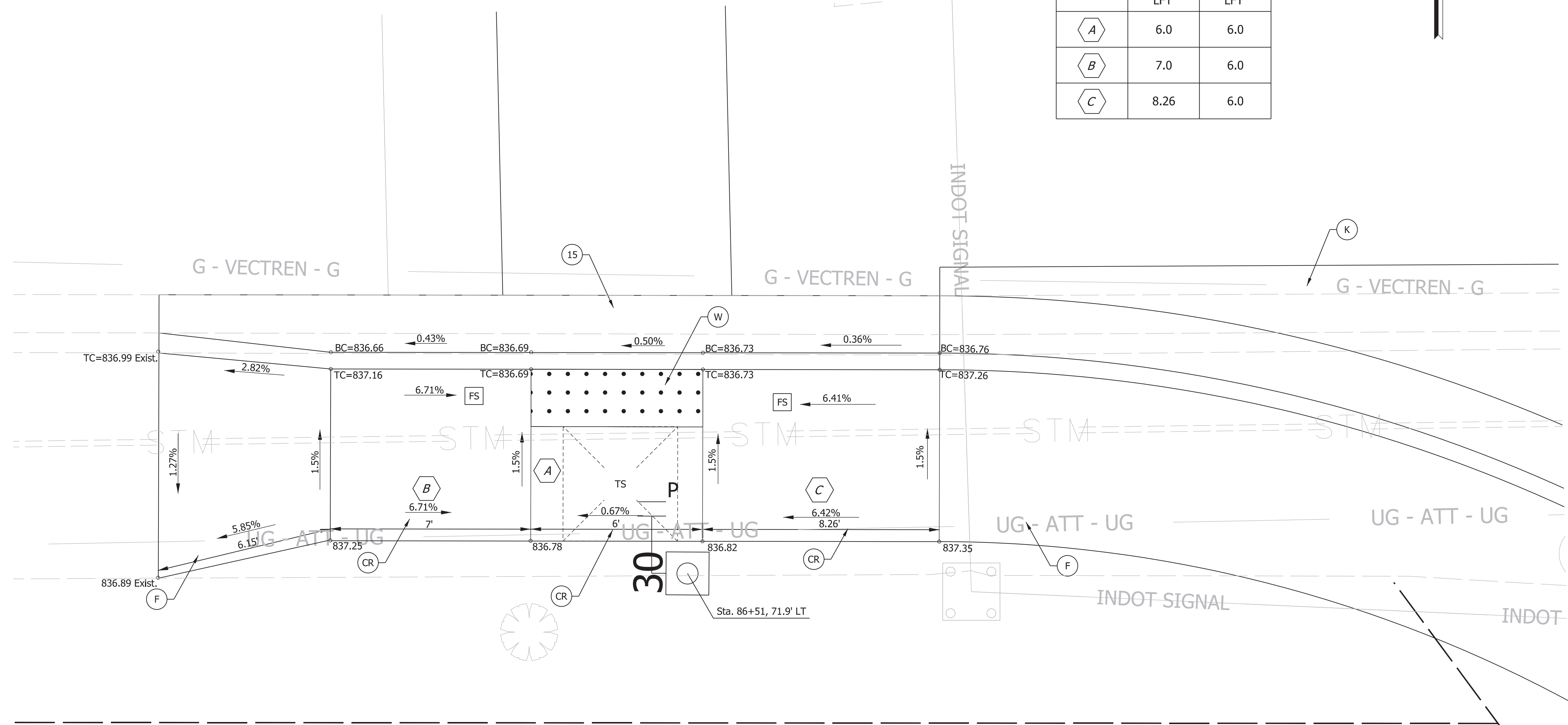
**CURB RAMP DETAILS
SMITH RD SW CROSSING**

SCALE	BRIDGE FILE
1"=2'	N/A
	DESIGNATION
	1800208
SURVEY BOOK	SHEETS
Electronic	35 of 80
CONTRACT	PROJECT
R-41465	1800208

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SR 46 (3rd St)

Area	Length LFT	Width LFT
A	6.0	6.0
B	7.0	6.0
C	8.26	6.0



LEGEND:

(F) Sidewalk, Concrete	(13) Curb, Concrete	(K) Full Depth HMA composed of: 165 lb/Sy, Type C, Surface 440 lb/Sy, Type C, Intermediate 440 lb/Sy, Type C, Base	(P) Pedestrian Push Button, APS New Cantilever Signal Structure, 30' Mast Arm, Drilled Shaft Foundation, Typ A (Max Height 22')
(CR) Curb Ramp, Concrete	(15) Curb and Gutter, Concrete	(R) Mill and Overlay, 1.5" composed of: 165 lb/syd QC/QA - HMA, 3, 70, SURFACE, 12.5 mm	(FS) Flared Side
(W) Detectable Warning Surface			(P) Pedestrian Indication w/ Countdown New Pedestal & Base on "A" Foundation

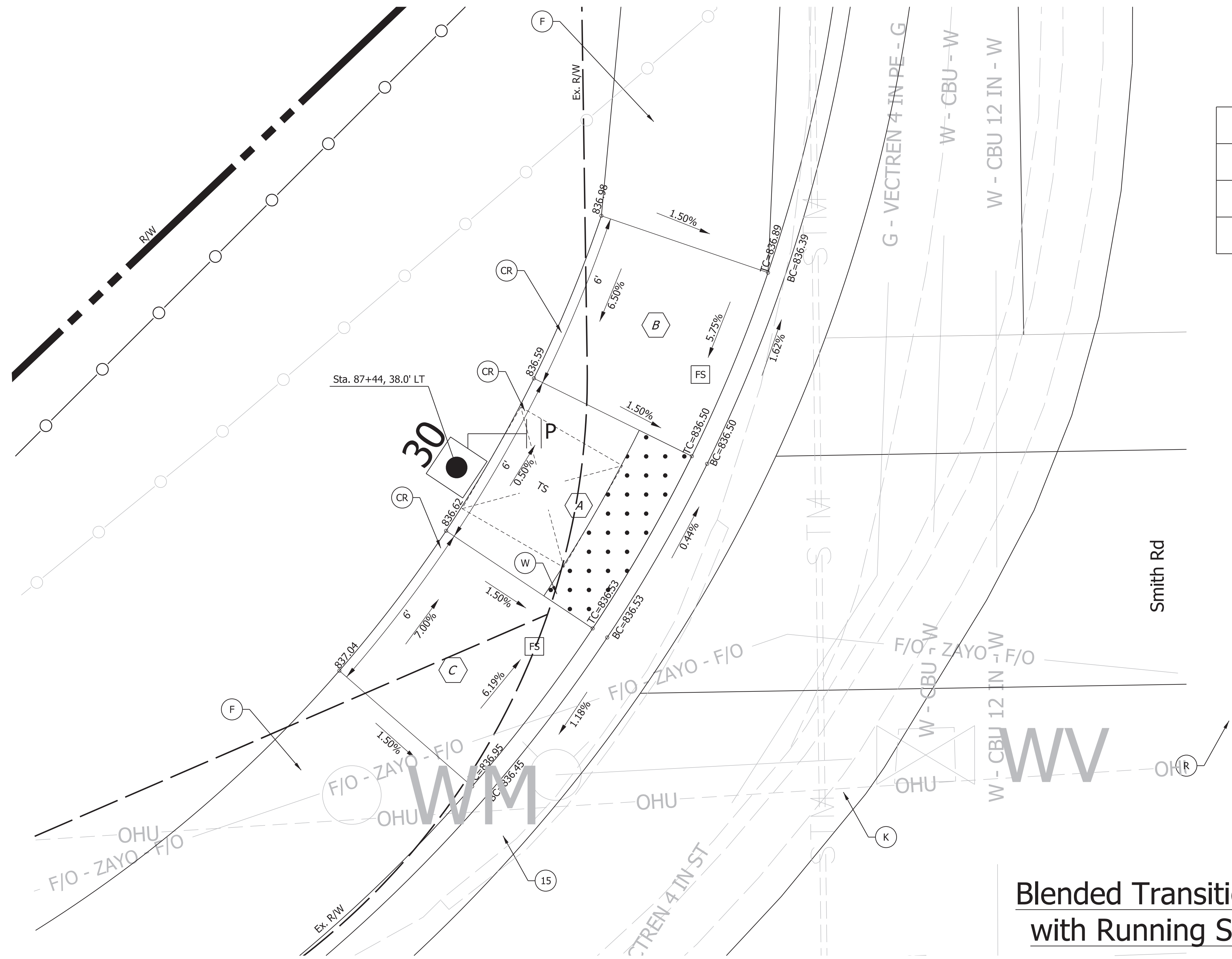
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	4/16/2021	DATE
DESIGNED: \$DESBY\$	4/16/2021	DRAWN: \$DWNBY\$	4/16/2021
CHECKED: \$DESCHKBY\$	4/16/2021	CHECKED: \$DWNCHKBY\$	4/16/2021

INDIANA DEPARTMENT OF TRANSPORTATION	
CURB RAMP DETAILS SR46 SW CROSSING	

SCALE	BRIDGE FILE
1"=2'	N/A
	DESIGNATION
	1800208
SURVEY BOOK	SHEETS
Electronic	36 of 80
CONTRACT	PROJECT
R-41465	1800208

P:\PLOT_D\PROJECT_TIMES_\$NAME_PMS



**Blended Transition Curb Ramp
with Running Slope $< 2.00\%$**

LEGEND:

- | | | | |
|--|--------------------------------|---|--|
| (F) Sidewalk, Concrete | (13) Curb, Concrete | (K) Full Depth HMA composed of:
165 lb/Sy, Type C, Surface
440 lb/Sy, Type C, Intermediate
440 lb/Sy, Type C, Base | (P) Pedestrian Push Button, APS |
| (CR) Curb Ramp, Concrete | (15) Curb and Gutter, Concrete | (FS) Flared Side | (New Cantilever Signal Structure, 30' Mast Arm,
Drilled Shaft Foundation, Typ A (Max Height 22')) |
| (W) Detectable Warning Surface | | | (Pedestrian Indication w/ Countdown) |
| (R) Mill and Overlay, 1.5" composed of:
165 lb/syd QC/QA - HMA, 3, 70, SURFACE, 12.5 mm | | | (New Pedestal & Base on "A" Foundation) |

**NOT FOR
CONSTRUCTION**

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	4/16/2021	DATE
DESIGNED: \$DESBY\$	4/16/2021	DRAWN: \$DWNBY\$	4/16/2021
CHECKED: \$DESCHKBY\$	4/16/2021	CHECKED: \$DWNCHKBY\$	4/16/2021

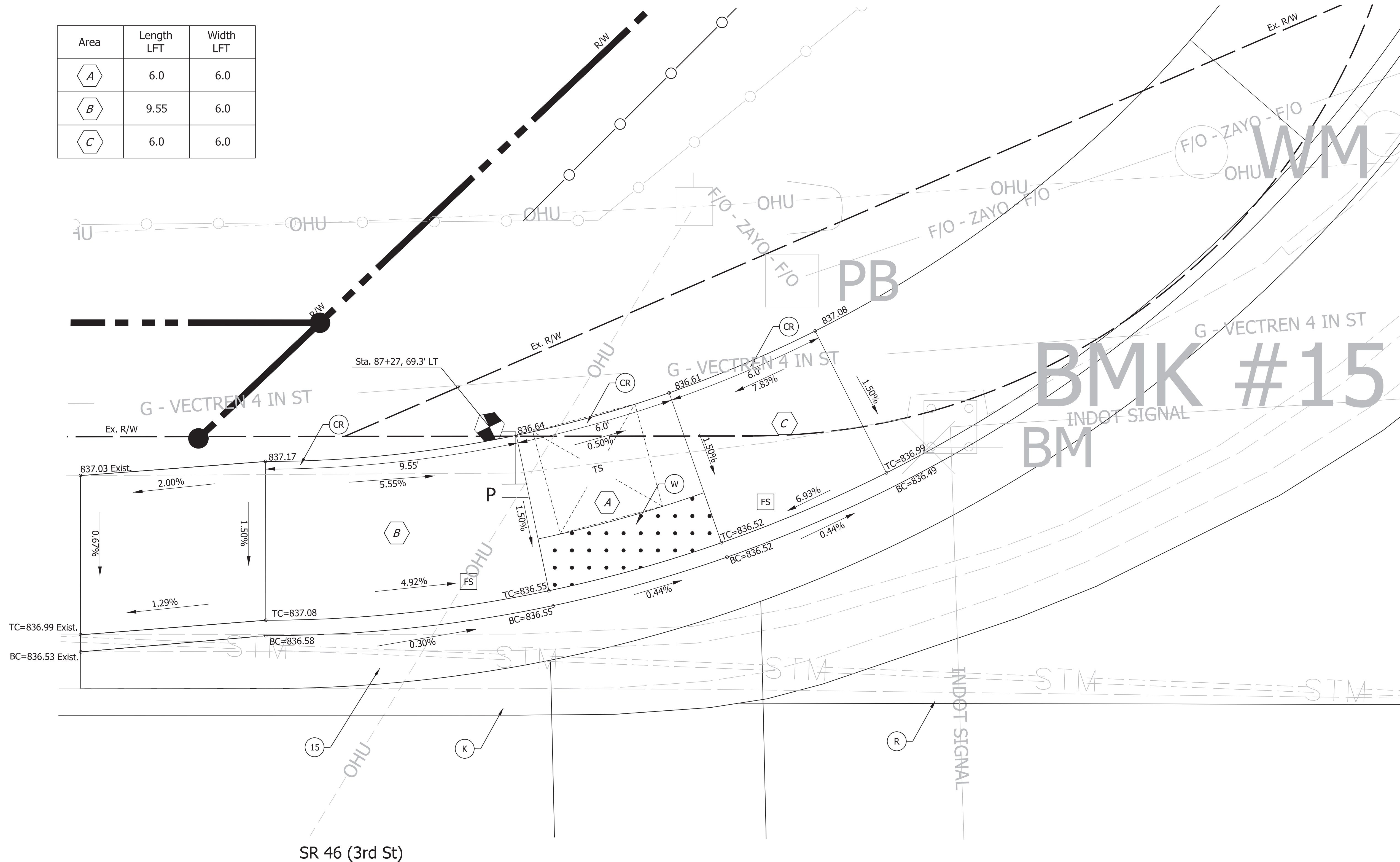
INDIANA DEPARTMENT
OF TRANSPORTATION

CURB RAMP DETAILS
SMITH RD NW CROSSING

SCALE	BRIDGE FILE
1"=2"	N/A
	DESIGNATION
	1800208
SURVEY BOOK	SHEETS
Electronic	37 of 80
CONTRACT	PROJECT
R-41465	1800208

Plot Date: 4/16/2021 10:15:15 AM

Area	Length LFT	Width LFT
A	6.0	6.0
B	9.55	6.0
C	6.0	6.0



LEGEND:

- (F) Sidewalk, Concrete
- (CR) Curb Ramp, Concrete
- (W) Detectable Warning Surface
- (R) Mill and Overlay, 1.5" composed of:
165 lb/syd QC/QA - HMA, 3, 70, SURFACE, 12.5 mm
- (13) Curb, Concrete
- (15) Curb and Gutter, Concrete
- (FS) Flared Side
- (K) Full Depth HMA composed of:
165 lb/Sy, Type C, Surface
440 lb/Sy, Type C, Intermediate
440 lb/Sy, Type C, Base
- (P) Pedestrian Push Button, APS
- (New Cantilever Signal Structure, 30' Mast Arm, Drilled Shaft Foundation, Typ A (Max Height 22'))
- (Pedestrian Indication w/ Countdown)
- (New Pedestal & Base on "A" Foundation)

NOT FOR CONSTRUCTION

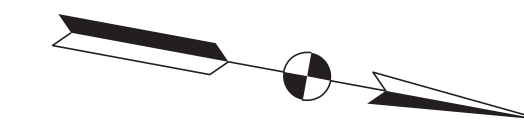
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DESIGNED: \$DESBY\$	4/16/2021	DRAWN: \$DWNBY\$	4/16/2021
CHECKED: \$DESCHKBY\$	4/16/2021	CHECKED: \$DWNCHKBY\$	4/16/2021

INDIANA DEPARTMENT OF TRANSPORTATION

CURB RAMP DETAILS
SR46 NW CROSSING

SCALE	BRIDGE FILE
1"=2"	N/A
	DESIGNATION
	1800208
SURVEY BOOK	SHEETS
Electronic	38 of 80
CONTRACT	PROJECT
R-41465	1800208

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LEGEND

(37)	Thermoplastic Pavement Marking Message	(40)	24 in. Stop Line White Thermoplastic Transverse Marking	(49)	8 in. Broken White Thermoplastic Line
(38)	6 in. Crosswalk Edge Line White Thermoplastic Transverse Marking	(46)	4 in. Solid White Thermoplastic Line		
(39)	12 in. Crosshatch Line Yellow Thermoplastic Transverse Marking	(47)	4 in. Solid Yellow Thermoplastic Line		
		(48)	6 in. Solid White Thermoplastic Line		

NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	4/16/2021	DATE
DESIGNED: \$DESBY\$	4/16/2021	DRAWN: \$DWNBY\$	4/16/2021
CHECKED: \$DESCHKBY\$	4/16/2021	CHECKED: \$DWNCHKBY\$	4/16/2021

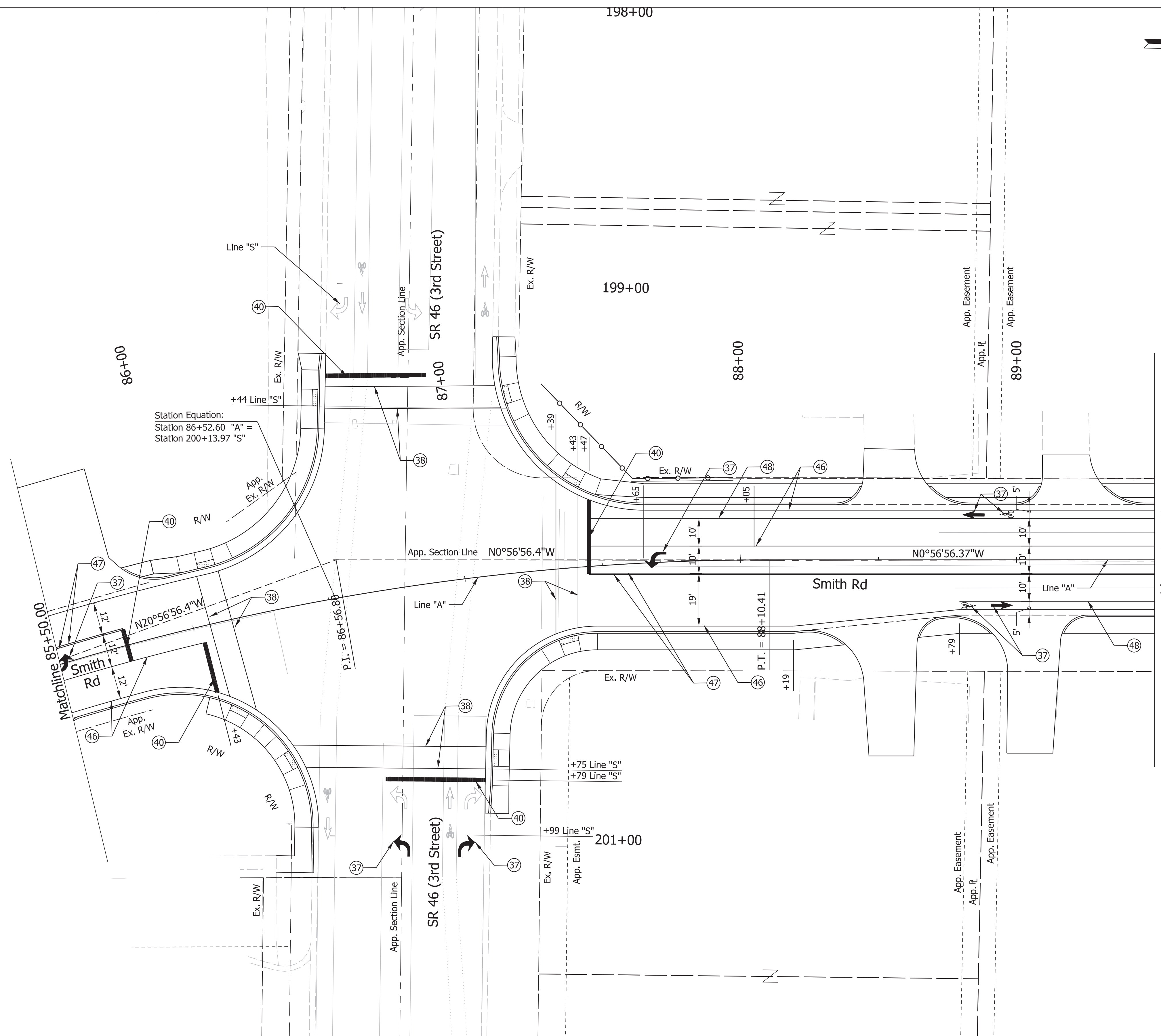
INDIANA DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING
Sta. 81+50.00 to 85+50.00 Line "A"

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	1800208
SURVEY BOOK	SHEETS
Electronic	40 of 80
CONTRACT	PROJECT
R-41465	1800208

Plot: L:\INDOT\18070904-11\Draw\Sheets\Sht_PMK_20_01.dgn

Model: \$MODEL_NAME\$



Plot: L:\INDOT\18070904-11\Draw\Sheets\Sht_PMK_20_02.dgn

LEGEND

- | | | |
|---|--|--|
| (37) Thermoplastic Pavement Marking Message | (40) 24 in. Stop Line White Thermoplastic Transverse Marking | (49) 8 in. Broken White Thermoplastic Line |
| (38) 6 in. Crosswalk Edge Line White Thermoplastic Transverse Marking | (46) 4 in. Solid White Thermoplastic Line | |
| (39) 12 in. Crosshatch Line Yellow Thermoplastic Transverse Marking | (47) 4 in. Solid Yellow Thermoplastic Line | |
| | (48) 6 in. Solid White Thermoplastic Line | |

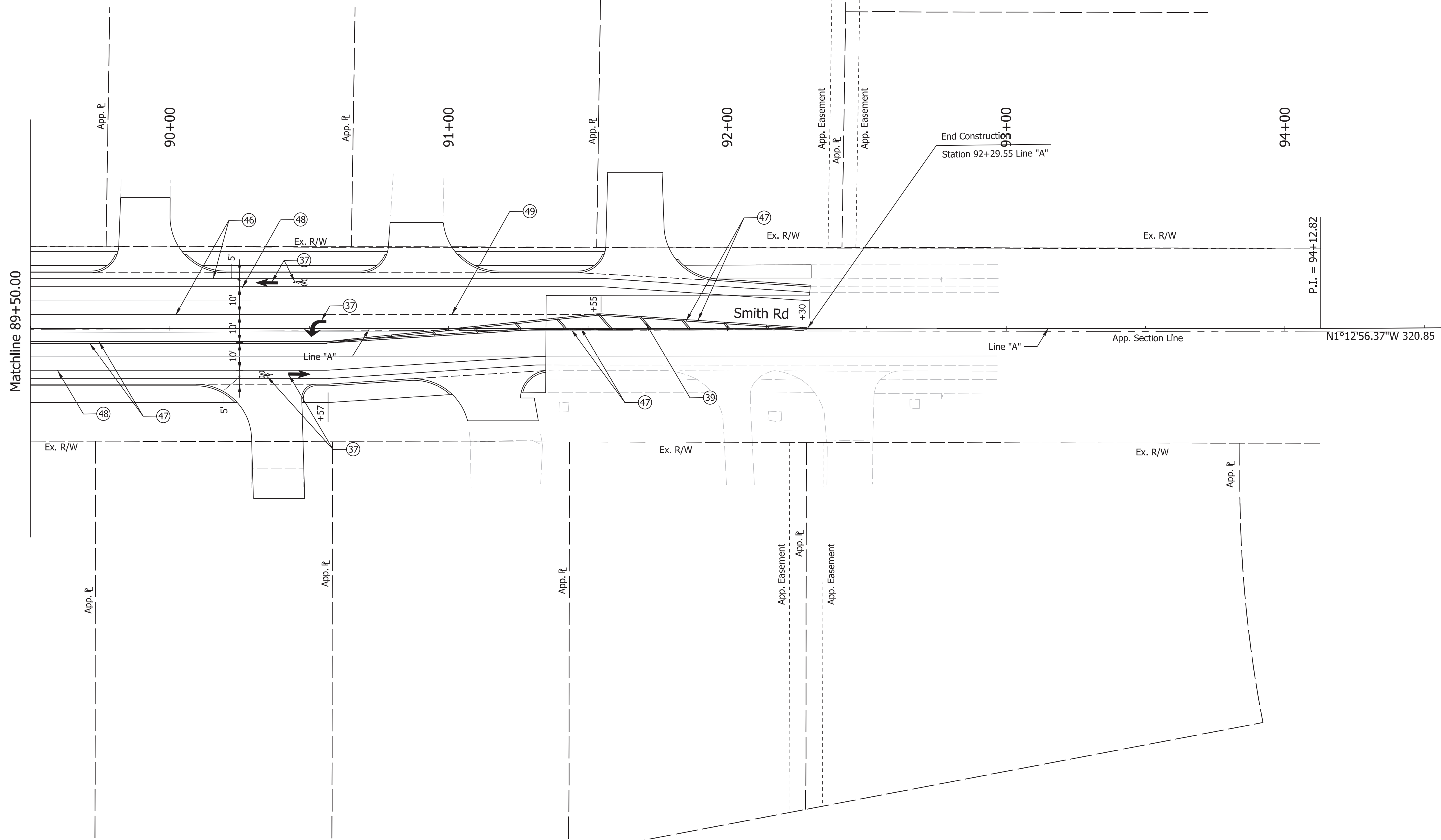
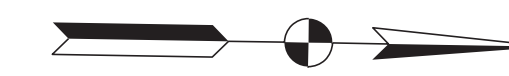
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	4/16/2021	DATE
DESIGNED: \$DESBY\$	4/16/2021	DRAWN: \$DWNBY\$	4/16/2021
CHECKED: \$DESCHKBY\$	4/16/2021	CHECKED: \$DWNCHKBY\$	4/16/2021

INDIANA DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING
 Sta. 85+50.00 to 89+50.00 Line "A"

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	1800208
SURVEY BOOK	SHEETS
Electronic	41 of 80
CONTRACT	PROJECT
R-41465	1800208



LEGEND					
37	Thermoplastic Pavement Marking Message	40	24 in. Stop Line White Thermoplastic Transverse Marking	49	8 in. Broken White Thermoplastic Line
38	6 in. Crosswalk Edge Line White Thermoplastic Transverse Marking	46	4 in. Solid White Thermoplastic Line		
39	12 in. Crosshatch Line Yellow Thermoplastic Transverse Marking	47	4 in. Solid Yellow Thermoplastic Line		
		48	6 in. Solid White Thermoplastic Line		

NOT FOR CONSTRUCTION



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	4/16/2021	DATE
DESIGNED: \$DESBY\$	4/16/2021	DRAWN: \$DWNBY\$	4/16/2021
CHECKED: \$DESCHKBY\$	4/16/2021	CHECKED: \$DWNCHKBY\$	4/16/2021

INDIANA DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING
Sta. 89+50.00 to 93+50.00 Line "A"

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	1800208
SURVEY BOOK	SHEETS
Electronic	42 of 80
CONTRACT	PROJECT
R-41465	1800208

P:\\$PLOT_D\DRIBBT_T\TIMES_\$AM_PM\$.dgn

Photograph	IHSSI / SJCA, Inc. Number and Rating	Name / Address	Dates of Construction/ Style	Notes	National Register Recommendation
	IHSSI 105-055-34807 / "contributing"	House / 3723 E 3rd Street	c. 1960 / Ranch	One-story wood structure with low-pitched shingle roof with a cross gable over the entry porch and an internal chimney.	Not eligible: has some replacement windows, and possesses vinyl siding, taking away from the structure's historic integrity.
	IHSSI 105-055-34806 / "contributing"	House / 3717 E 3rd Street	c. 1965 / Split Level	Two-story wood structure on stone foundation with split level shingled roof and external chimney.	Not eligible: has vinyl siding and replacement windows, all detracting from the structure's historic integrity.

Division of Historic Preservation & Archaeology · 402 W. Washington Street, W274 · Indianapolis, IN 46204-2739
Phone 317-232-1646 · Fax 317-232-0693 · dhpa@dnr.IN.gov ·



November 5, 2021

Karen Wood
Environmental & Cultural Resources Manager
SJCA, Inc.
9102 N. Meridian Street, Suite 200
Indianapolis, Indiana 46260

Federal Agency: Indiana Department of Transportation (“INDOT”),
on behalf of Federal Highway Administration, Indiana Division (“FHWA”)

Re: Indiana Department of Transportation’s finding of “no historic properties affected,” on behalf of
the Federal Highway Administration, for the SR 46 and Smith Road Intersection Improvement
Project (Des. No. 1800208; DHPA No. 24327)

Dear Ms. Wood:

Pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 306108), 36 C.F.R. Part 800, and the “Programmatic Agreement (PA) Among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation and the Indiana State Historic Preservation Officer Regarding the Implementation of the Federal Aid Highway Program In the State of Indiana,” the staff of the Indiana State Historic Preservation Officer (“Indiana SHPO”) has reviewed your October 6, 2021, submission, which enclosed INDOT’s October 5, 2021, finding and supporting documentation, received by our office October 7, 2021, for this project in the City of Bloomington, Monroe County, Indiana.

As previously indicated, in regard to buildings and structures, for the purposes of the Section 106 review of this federal undertaking, we agree that there are no above-ground historic properties listed in or eligible for inclusion in the National Register of Historic Places (“NRHP”) within the project’s area of potential effects. We agree that this also applies to the expanded area of potential effects mentioned in INDOT’s October 6, 2021, letter.

Additionally, as previously indicated, in regard to archaeology, based on the submitted information and the documentation available to the staff of the Indiana SHPO, we have not identified any currently known archaeological resources listed in or eligible for inclusion in the NRHP within the original portions of the proposed project area or the additional portions of the proposed project area. However, this identification is subject to the ground-disturbing project-related activities remaining within areas disturbed by previous construction of a recent and non-historical nature. If archaeological deposits are encountered from the post-contact period, they will be evaluated regarding their eligibility for the NRHP in consultation with the staff of the Indiana SHPO. Please contact our office if such deposits are encountered. The archaeological recording must be done in accordance with the Secretary of the Interior’s “Standards and Guidelines for Archaeology and Historic Preservation” (48 F.R. 44716) and a report of the archaeological documentation must be submitted to our office for review and comment.

Accordingly, we concur with INDOT’s October 5, 2021, Section 106 finding of “No Historic Properties Affected,” on behalf of FHWA, for this federal undertaking.

If any prehistoric or historic archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 and Indiana Code 14-21-1-29) requires that the discovery be reported to Indiana Department of Natural Resources, Division of Historic Preservation and Archaeology (“INDNR-DHPA”), within two (2) business days. In that event, please call (317) 232-1646. Be advised that adherence to Indiana Code 14-21-1-27 and Indiana

Code 14-21-1-29 does not obviate the need to adhere to applicable federal statutes and regulations, including but not limited to 36 C.F.R. Part 800.

The Indiana SHPO staff's archaeological reviewer for this project is Wade T. Tharp, and the structures reviewer is Danielle Kauffmann. However, if you have a question about the Section 106 process, please contact initially the INDOT Cultural Resources staff members who are assigned to this project.

In all future correspondence about the SR 46 and Smith Road intersection improvement project in Monroe County (Des. No. 1800208), please refer to DHPA No. 24327.

Very truly yours,

Beth K. McCord
Deputy State Historic Preservation Officer

BKM:DMK:WTT:wtt

emc: Erica Tait, FHWA
Anuradha Kumar, INDOT
Shaun Miller, INDOT
Susan Branigin, INDOT
Karen Wood, SJCA, Inc.
Miami Tribe of Oklahoma
Danielle Kauffmann, Indiana DNR-DHPA
Wade T. Tharp, Indiana DNR-DHPA

LOCALiQ

South Bend Tribune | The Herald Times PO Box 630485 Cincinnati, OH 45263-0485
The Times-Mail | Evening World
The Reporter Times

PROOF OF PUBLICATION

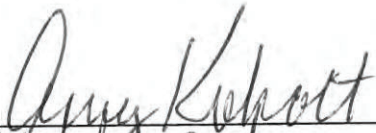
Sjca P.C.
Sjca P.C.
9102 N MERIDIAN ST. STE 200
Indianapolis IN 46260

STATE OF INDIANA, COUNTY OF MONROE

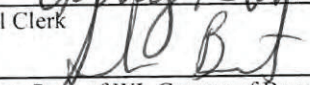
The Herald Times is a public newspaper of general circulation, printed in the town of Bloomington, in said County and State, that the notice, of which the annexed is a true copy, was published in regular edition of said paper, issued upon the following dates, to wit:

10/09/2021

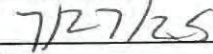
Sworn to and subscribed before on 10/09/2021



Legal Clerk



Notary, State of WI, County of Brown



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SARAH BERTELSEN
Notary Public
State of Wisconsin

To: BLM Herald Times

(Government Unit)

County, Indiana

111 lines, 1 columns wide which equals 111 equivalent lines at \$0.46 per line @ 1 days \$51.06

Acct #: 553987

Ad #: 6393077

Website Publication \$0.00

DATA FOR COMPUTING COST

Charge for proof(s) of publication \$0.00

Width of single column 1.53 in

Number of insertions 1

TOTAL AMOUNT OF CLAIM \$51.06

Size of type 7 point

Claim No. _____ Warrant No. _____

IN FAVOR OF

Herald Times
1900 S Walnut
Bloomington, IN 47402

I have examined the within claim and hereby certify as follows:

- That it is in proper form.
That it is duly authenticated as required by law.
That it is based upon statutory authority.
That it is apparently (correct) (incorrect)

\$ _____
On Account of Appropriation For
FED ID
83-2810977

Allowed _____, 20 _____

In the sum of \$ _____

I certify that the within claim is true and correct, that the services there-in itemized and for which charge is made were ordered by me and were necessary to the public business.

Public Notice
Des. No. 1800208

The Indiana Department of Transportation (INDOT), with funding from the Federal Highway Administration (FHWA), proposes to proceed with the SR 46 and Smith Road Intersection Improvement Project, Des. No. 1800208. The project is located on SR 46 at the intersection with Smith Road in Monroe County, Indiana.

Under the preferred alternative, the proposed project involves the installation of exclusive left-turn lanes on Smith Road. Smith Road will be widened to accommodate the additional turn lane on both the north and south approaches. The new lane configuration for the southbound approach for Smith Road consists of a travel lane in each direction, a left-turn lane, and two bike lanes. The new lane configuration for the northbound approach of Smith Road consists of a travel lane in each direction and a left-turn lane. It is anticipated that curb, gutter, storm sewers and driveway approaches will be reconstructed along Smith Road to the north and south of the intersection. Drainage improvements, including new inlets, pipes, and a new in-line stormwater detention pipe, will be made to address concerns in the southwest corner of the intersection. The existing ditch will be widened with a proposed retaining wall installation adjacent to the existing sidewalk/multi-use trail. It is anticipated that the undertaking will require 0.20 acre of permanent and 0.50 acre of temporary right-of-way acquisition. No relocations of residences or businesses are expected for this project. The letting date is 2023.

The proposed action does not impact properties listed in or eligible for the National Register of Historic Places. The Indiana Department of Transportation (INDOT), on behalf of the FHWA, has issued a "No Historic Properties Affected" finding for the project due to the fact that no historic properties are present within the Area of Potential Effects (APE). In accordance with the National Historic Preservation Act, the views of the public are being sought regarding the effect of the proposed project on the historic elements as per 36 CFR 800.2(d), 800.3(e) and 800.6(a)(4). Pursuant to 36 CFR 800.4(d)(2), the documentation specified in 36 CFR 800.11(d) is available for inspection in SJCA Inc. Additionally, this documentation can be viewed electronically by accessing INDOT's Section 106 document posting website IN SCOPE at

<http://erms.indot.in.gov/Section106Documents>. Persons with limited internet access may request project information be mailed by notifying the contact listed below. This documentation serves as the basis for the "No Historic Properties Affected" finding. The views of the public on this effect finding are being sought. Please reply with any comments or requests to Karen Wood, SJCA, Inc., 9102 N. Meridian St., Suite 200, Indianapolis, IN 46260, 317.566.0629 or kwood@sjcainc.com no later than November 9, 2021.

In accordance with the "Americans with Disabilities Act", if you have a disability for which INDOT needs to provide accessibility to the document(s) such as interpreters or readers, please contact Greg Prince at 812.524.3783 or gprince@indot.in.gov.

HSPAXLP

SR 46 & Smith Road Intersection Improvements
CE Level 2

APPENDIX E: RED FLAG INVESTIGATION





INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N642
Indianapolis, Indiana 46204

PHONE: (317) 232-5113
FAX: (317) 233-4929

Eric Holcomb, Governor
Joe McGuinness,
Commissioner

Date: October 2, 2019

To: Site Assessment & Management
Environmental Policy Office - Environmental Services Division
Indiana Department of Transportation
100 N Senate Avenue, Room N642
Indianapolis, IN 46204

From: Ellen Hoglebe
Crawford, Murphy & Tilly, Inc.
8790 Purdue Road
Indianapolis, IN 46268
ehoglebe@cmtengr.com

Re: RED FLAG INVESTIGATION
DES No. 1800208, State Project
Intersection Improvement
State Road 46 and Smith Road
Bloomington, Monroe County, Indiana

PROJECT DESCRIPTION

Brief Description of Project:

The proposed project consists of improvements at the intersection of State Road 46 (SR 46) and Smith Road in Bloomington, Monroe County, Indiana. The project is located in Sections 1 and 2, Township 8 North, Range 1 West, and Sections 35 and 36, Township 9 North, Range 1 West of the U.S. Geological Survey (USGS) Unionville, IN quadrangle.

SR 46 is a Principal Arterial within the project area, with an annual average daily traffic (AADT, 2018) of 7,900 (eastbound leg) and 6,900 (westbound leg) per day. Within the project area, Smith Road is classified as a Minor Collector south of SR 46 and a Major Collector north of SR 46, with an AADT (2018) of 2,700 (northbound leg) and 3,700 (southbound leg) per day.

The proposed intersection improvements will consist of reconfiguring and widening portions of Smith Road and replacing the existing traffic signal to improve capacity and safety at the intersection.

Bridge and/or Culvert Project: Yes No Structure # _____

If this is a bridge project, is the bridge Historical? Yes No , Select Non-Select

(Note: If the project involves a historical bridge, please include the bridge information in the Recommendations Section of the report).

Proposed right of way: Temporary # Acres 0.1 Permanent # Acres 0.1 , Not Applicable

Type of excavation: The maximum depth of excavation will be approximately 20 feet for traffic signal pole foundations. Additional excavation includes approximately 5 feet for storm sewers, 6 inches for sidewalks, and 24 inches for pavement widening.

Maintenance of traffic: Either a detour route for the intersection or phased construction along SR 46 and Smith Road, which would maintain one lane of traffic in each direction, will be implemented. The preferred method of maintenance of traffic will need to be coordinated with the City of Bloomington.

Work in waterway: Yes No Below ordinary high water mark: Yes No

State Project: LPA:

Any other factors influencing recommendations: N/A

INFRASTRUCTURE TABLE AND SUMMARY

Infrastructure			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Religious Facilities	3*	Recreational Facilities	2
Airports ¹	N/A	Pipelines	3
Cemeteries	N/A	Railroads	1
Hospitals	N/A	Trails	9
Schools	N/A	Managed Lands	2

¹In order to complete the required airport review, a review of public airports within 3.8 miles (20,000 feet) is required.

Explanation:

Religious Facilities*: Three (3) religious facilities, including one (1) mapped and two (2) unmapped, are located within the 0.5 mile search radius. St. Thomas Lutheran Church is located within the project area. Congregation Beth Shalom and University Baptist Church are located adjacent to the project area in the southwest quadrant of the intersection. Coordination with these religious facilities will occur.

Recreational Facilities: Two (2) recreational facilities are located within the 0.5 mile search radius. The nearest recreational facility, Park Ridge East Park, is located 0.4 mile northeast of the project area. No impact is expected.

Pipelines: Three (3) pipeline segments are located within the 0.5 mile search radius. One pipeline segment, associated with Indiana Gas Co. Inc., is located within the project area. Coordination with INDOT Utilities and Railroads will occur.

Railroads: One (1) railroad segment is located within the 0.5 mile search radius. The railroad, associated with the Indiana Railroad Company, is located 0.20 mile north of the project area. No impact is expected.

Trails: Nine (9) trail segments are located within the 0.5 mile search radius. Three (3) trail segments of the Bloomington NE Sidepaths are located within the project area. One (1) urban trail along 3rd St. (SR 46) from Kingston Dr. to Smith Rd. is located within the western portion of the project area. Two (2) planned trails, 3rd St. (SR 46) from Smith Rd. to SR 446 and Smith Rd. from 3rd St. south to Brighton Ave., are located in the project area. Coordination with the City of Bloomington will occur.

Managed Lands: Two (2) managed lands are located within the 0.5 mile search radius. The nearest managed land, Park Ridge East Park, is located 0.4 mile northeast of the project area. No impact is expected.

WATER RESOURCES TABLE AND SUMMARY

Water Resources			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
NWI - Points	N/A	Canal Routes - Historic	N/A
Karst Springs	N/A	NWI - Wetlands	2
Canal Structures – Historic	N/A	Lakes	3
NPS NRI Listed	N/A	Floodplain - DFIRM	N/A
NWI-Lines	N/A	Cave Entrance Density	N/A
IDEM 303d Listed Streams and Lakes (Impaired)	N/A	Sinkhole Areas	1
Rivers and Streams	7	Sinking-Stream Basins	N/A

Explanation:

Rivers and Streams: Seven (7) stream segments are located within the 0.5 mile search radius. The nearest segment is located 0.42 miles north of the project area. No impact is expected.

NWI – Wetlands: Two (2) NWI-Wetlands are located within the 0.5 mile search radius. The nearest wetland is located 0.23 mile southwest of the project area. No impact is expected.

Lake: Three (3) lakes are located within the 0.5 mile search radius. The nearest lake is located 0.23 mile southwest of the project area. No impact is expected.

Sinkhole Area: One (1) sinkhole area is located within the 0.5 mile search radius. The nearest sinkhole area is located 0.14 mile northeast of the project area. No impact is expected.

URBANIZED AREA BOUNDARY SUMMARY

Explanation: This project lies within the Bloomington (Monroe County and City of Bloomington) UAB. Post construction Storm Water Quality Best Management Practices (BMPs) may need to be considered. An early coordination letter with topographic and aerial maps showing the project area will be sent to the City of Bloomington MS4 Coordinator at PO Box 1216, Bloomington, IN 47402.

MINING AND MINERAL EXPLORATION TABLE AND SUMMARY

Mining/Mineral Exploration			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Petroleum Wells	N/A	Mineral Resources	N/A
Mines – Surface	N/A	Mines – Underground	N/A

Explanation: N/A

HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY

Hazardous Material Concerns			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Superfund	N/A	Manufactured Gas Plant Sites	N/A
RCRA Generator/ TSD	N/A	Open Dump Waste Sites	N/A
RCRA Corrective Action Sites	N/A	Restricted Waste Sites	N/A
State Cleanup Sites	N/A	Waste Transfer Stations	N/A
Septage Waste Sites	N/A	Tire Waste Sites	N/A
Underground Storage Tank (UST) Sites	1	Confined Feeding Operations (CFO)	N/A
Voluntary Remediation Program	N/A	Brownfields	N/A
Construction Demolition Waste	N/A	Institutional Controls	N/A
Solid Waste Landfill	N/A	NPDES Facilities	2
Infectious/Medical Waste Sites	N/A	NPDES Pipe Locations	N/A
Leaking Underground Storage (LUST) Sites	3	Notice of Contamination Sites	N/A

Explanation:

Underground Storage Tank (UST) Sites: One (1) UST site is located within the 0.5 mile search radius. The UST site, Earthworks Nursery (3802 East 3rd St. Bloomington, IN 47401, AI ID 44005), is located adjacent to the project area. The site is incorrectly mapped in the RFI database; the site is located in the southeast quadrant of the project area intersection. Based on a review of the Indiana Department of Environmental Management (IDEM) Virtual File Cabinet (VFC) for the site, five tanks were closed and removed from the site in April 1992 and no site contamination was noted. A post-removal site assessment report was not available for the site. Due to site history, age, and the minimal documentation available, the potential for orphan USTs and/or petroleum contamination exists. If petroleum contamination is encountered, analysis for lead will be necessary prior to proper removal and disposal of soil and/or groundwater.

Leaking Underground Storage (LUST) Sites: Three (3) LUST sites are located within the 0.5 mile search radius. The nearest LUST site, Johnson Oil Bigfoot #049 (4405 E 3rd St. Bloomington, IN 47401, AI ID 40146), is located 0.16 miles east of the project area. The site contamination of petroleum hydrocarbons was discovered in December 2002 and the tank along with 630 tons of soil and backfill were removed in June 2003. Soil testing after removal indicated petroleum hydrocarbon levels were below IDEM action level in the remaining soil. No impact is expected.

NPDES Facilities: Two (2) NPDES facilities are located within the 0.5 mile search radius. The facility, Summerhouse Inn (4501 E 3rd St. Bloomington, IN 47401, NPDES ID INR10H799 and INR10M954), is located 0.24 miles east of the project area. No documents regarding the NPDES facility's permits were found on the IDEM VFC. No impact is expected.

ECOLOGICAL INFORMATION SUMMARY

The Monroe County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is attached with ETR species highlighted. A preliminary review of the Indiana Natural Heritage Database by INDOT Environmental Services did not indicate the presence of ETR species within the 0.5 mile search radius. Coordination with USFWS and IDNR will occur.

A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

An inquiry using the USFWS Information for Planning and Consultation (IPaC) website did not indicate the presence of the federally endangered species, the Rusty Patched Bumble Bee, in or within 0.5 mile of the project area. No impact is expected.

RECOMMENDATIONS SECTION

Include recommendations from each section. If there are no recommendations, please indicate N/A:

INFRASTRUCTURE:

Religious Facilities: Three (3) religious facilities, including Congregation Beth Shalom, University Baptist Church, and St. Thomas Lutheran Church are located adjacent to the project area in the southwest quadrant of the intersection. Coordination with these religious facilities will occur.

Pipelines: One (1) pipeline segment, associated with Indiana Gas Co. Inc., is located within the project area. Coordination with INDOT Utilities and Railroads should occur.

Trails: Three (3) trail segments are located within the project area. One (1) urban trail along 3rd St. (SR 46) from Kingston Dr. to Smith Rd. is located within the western portion of the project area. Two (2) planned trails, 3rd St. (SR 46) from Smith Rd. to SR 446 and Smith Rd. from 3rd St. south to Brighton Ave., are located in the project area. Coordination with the City of Bloomington will occur.

WATER RESOURCES: N/A

URBANIZED AREA BOUNDARY:

This project lies within the Bloomington (Monroe County and City of Bloomington) UAB. Post construction Storm Water Quality Best Management Practices (BMPs) may need to be considered. An early coordination letter with topographic and aerial maps showing the project area will be sent to the City of Bloomington MS4 Coordinator at PO Box 1216, Bloomington, IN 47402.

MINING/MINERAL EXPLORATION: N/A

HAZMAT CONCERNS: N/A

ECOLOGICAL INFORMATION:

Coordination with USFWS and IDNR will occur. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

INDOT Environmental Services concurrence:

Aaron Aldred Digitally signed by Aaron Aldred
Date: 2019.10.03 08:46:14 -04'00'

(Signature)

Prepared by:
Ellen Hoglebe
Environmental Scientist
Crawford, Murphy & Tilly, Inc.

Graphics:

A map for each report section with a 0.5 mile search radius buffer around all project area(s) showing all items identified as possible items of concern is attached. If there is not a section map included, please change the YES to N/A:

SITE LOCATION: YES

INFRASTRUCTURE: YES

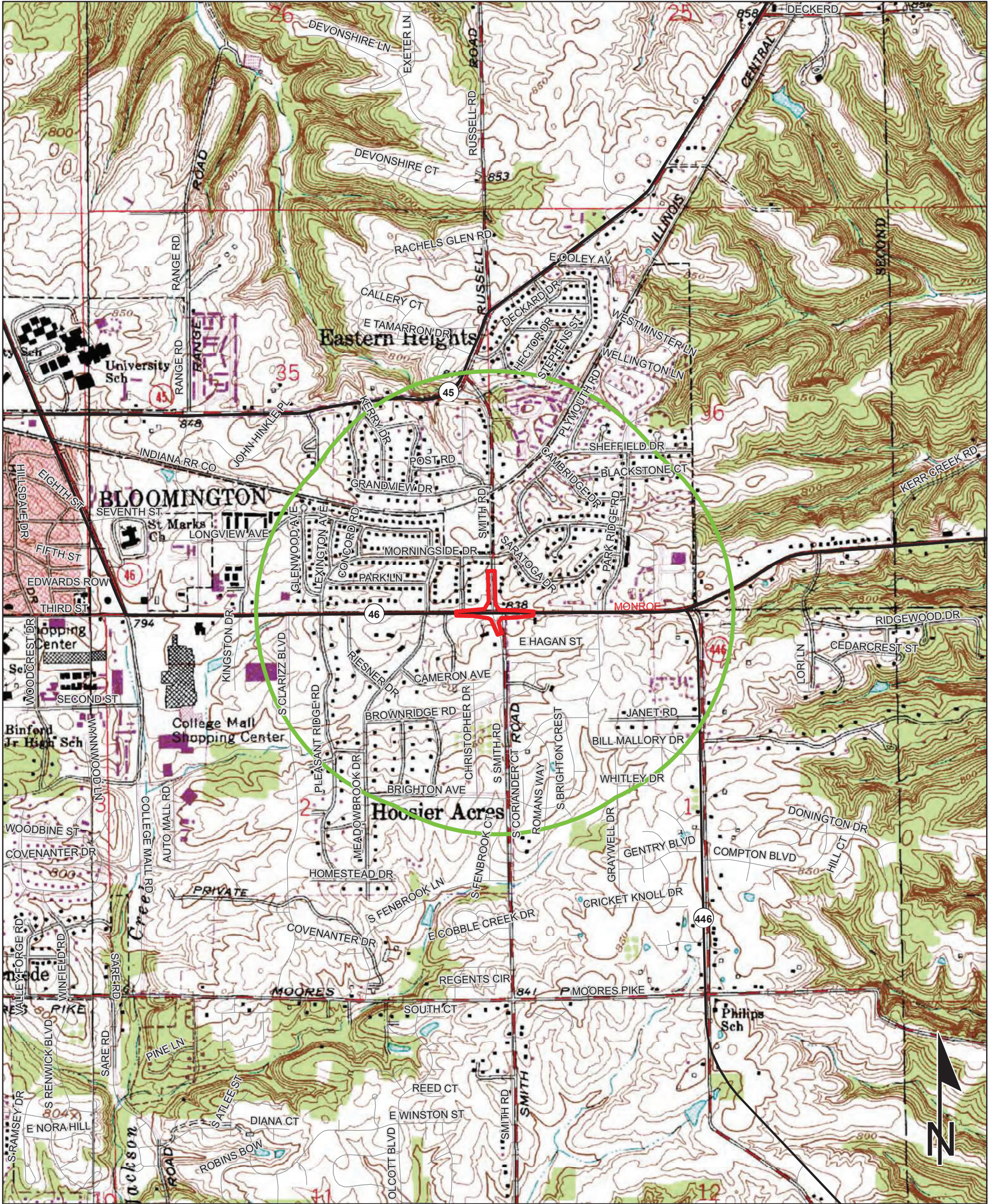
WATER RESOURCES: YES

URBANIZED AREA BOUNDARY: YES

MINING/MINERAL EXPLORATION: N/A

HAZMAT CONCERNS: YES

Red Flag Investigation - Site Location
 State Road 46 and Smith Rd.
 Des. No. 1800208, Intersection Improvement
 Monroe County, Indiana



Sources: 0.3 0.15 0 0.3 Miles
Non Orthophotography
 Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
 Map Projection: UTM Zone 16 N Map Datum: NAD83
 This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

**UNIONVILLE QUADRANGLE
 INDIANA
 7.5 MINUTE SERIES
 (TOPOGRAPHIC)**