

Bicycle Pedestrian Safety Commission
AGENDA
5:30 P.M. – In-person and virtual hybrid meeting
City Hall, Hooker Conference Room #245
Monday, March 21, 2022 @ 5:30pm

Online link: <https://bloomington.zoom.us/j/84280674363>

Meeting ID: 842 8067 4363

Dial in: +1 312 626 6799, 842 8067 4363# US (Chicago)

Meeting Agenda:

1. Attendance
2. Approval of Minutes- February 14, 2022
3. Reports from Commissioners
4. Old Business
5. New Business
 - a. TC-22-01: Henderson Street modifications
 - b. TC-22-02: 17th Street Multiuse Path project
 - c. TC-22-03: 11th + 14th Streets and Walnut Street traffic signals
 - d. TC-22-04: Crosswalk projects
 - e. TC-22-05: Signal at Tapp Road and Deborah Drive
6. Public Comment
7. Adjourn

Public Comment:

The Bicycle Pedestrian Safety Commission (BPSC) welcomes public comment at meetings for both items being discussed as part of the topic and new items that are not on the meeting's agenda. Members of the public wishing to comment on specific agenda items may have the opportunity to do so once the presentation has concluded and the BPSC Members have had an opportunity to ask initial questions. At that time, the BPSC Chair may ask if there are members of the public who wish to comment, or commenters may ask to be recognized. Members of the public wishing to comment on items not on listed on the agenda, but related to BPSC business will have the opportunity to do so during the meeting's designated public comment period. To ensure equal access to comment, BPSC chair may establish a time limit for all public comment.

Auxiliary aids for people with disabilities are available upon request with adequate notice. Please call [812-349-3429](tel:812-349-3429) or e-mail human.rights@bloomington.in.gov.

Proposed 2022 BPSC Meeting Dates

2/14/2022

3/21/2022- moved to accommodate IU and MCCSC Spring Break Schedules

4/11/2022

5/9/2022-- BPSC preliminary review of Resident-Led Traffic Calming Projects

6/13/2022

No July Meeting

8/8/2022- Resident- Led Traffic Calming Project Hearing

9/12/2022

10/17/2022

11/14/2022

12/12/2022

Minutes
Bicycle Pedestrian Safety Commission
Monday, February 14, 2022

Meeting Agenda:

1. New appointees: Paul Ash
2. Attendance:
 - Staff: Patrick Dierkes, Mallory Rickbeil
 - Commissioners: Paul Ash, Ann Edmonds, Casey Green, Zak Huneck, Jaclyn Ray
 - Public: Holden Abshier (WFIU), Ron Brown (BBC), Jim Shelton (Chamber of Commerce)

Casey noted that we have a quorum. Jim Rosenbarger has not reapplied to be on the commission. We now have a six-person commission.
3. Approval of Minutes- December 13, 2021
 - Mallory noted that we only have a \$50,000 budget not \$500,000.
 - Paul moved to approve; Zak seconded pending change noted by Mallory.
4. Reports from Commissioners
 - a. Hospital Site
 - Jaclyn noted that a section of the site will be done first including a greenway and a stage.
 - Mallory shared a screen showing the plan.
 - Patrick said the first phase is called phase 1 East. It is bounded by Rogers on the west. There are adjacent projects that will be done this year. First St will be reconstructed from College to Fairview. There will be traffic calming for people approaching First, but not yet decided exactly what that will be. There will be an abrupt raise coming to it. Second Street redesign is in the approved MPO plan, and we have received federal funding for it. Phase 1 East is fully funded. There's a plaza at the B-line intersection with First. There will be a shared street called University Street. This street will be curbless. There is a plaza area bringing people from B-line to this greenway. There will be two separate fountains. There will be open lawn area that will be lit. There will be a platform/seating area that can be used as a stage. There is a wetland garden for storm water retention.

Patrick said there have been presentations of this to the plan commission on this that have been taped. He can send the link to Mallory when it is available.

Paul is impressed with the storm water detention. He cited the flooding of last June and noted that we need to plan for similar future events. Patrick said that they will also have underground storage tanks to allow percolation under the lawn. The soil in this area has poor percolation. Paul asked about bedrock.

Patrick said 7 to 12 feet.

Jaclyn asked about the surface; the press release said cobble stone. She noted that riding on cobble stone is unpleasant.

Patrick said it will be similar to the pavers in front of the Pavilion in Switchyard Park and along the B-line there will be pavers.

Jaclyn wanted to know where the bicycles go, what's the separation between bikes, peds, and cars.

Patrick says it will be a shared street. He said that the raised pavement hopefully will lead to slower speeds.

Jaclyn asked whether it would be two-way.

Patrick said it will be two-way. Twenty-foot streets do not have center lines.

Jaclyn asked about parking.

Patrick said the northside has parallel parking. Southside has angled parking.

Jaclyn feels there is a lot of parking considering that the garage is being kept.

Patrick said this came up with the Plan Commission. He said there is a balancing act with the existing users, that is, Center Stone. They have 120 spaces. They want to be a good partner with Center Stone, trying to balance Center Stone's needs. The parking garage will not be a public garage; it will be for the development areas. Patrick sees it as a second downtown and needs similar parking. The developments will have first floor commercial spaces. Parking provides traffic calming.

Jaclyn wants to know whether there is a way to block off access for events.

Patrick says there will be built in bollards that can be raised to allow for as many options as possible, providing barriers.

Casey asked about the parking garage not being public. She felt that other garages also have development in the area.

Patrick said that this is not his area of expertise, but that it was not available because of Centerstone's needs.

Casey asked about sharing this street.

Patrick said it is shared for bicycles and cars. Pedestrians have a sidewalk.

Jaclyn wants to know how to include the Bike Ped Commission in the planning process. She feels this is our area of concern and we shouldn't have to hear about decisions in a press release. She would like us to be able to give feedback before the decisions are finalized.

Casey feels she would rather share the wide sidewalk than a street with parking.

Patrick said that he has been with the city for a year and didn't know to take his project to Bike Ped. He is happy to get more comments and input and to discuss them. With the discussion of cobble stones/pavers, the thought is that changing the surface and raising the pavement will cause traffic calming. He sees this as a benefit to both slower speed bikes and cars. Patrick feels this himself when biking on the B-line; the pavers cause him to slow down. He understands the negatives. He understands the discomfort but thinks it benefits all users. Going up the hill to the west being all pavers may be a concern. He feels that through bicyclists will use the bike lane on Second Street and the asphalt pavement on First Street. Fully built out people will choose to go to First or Second for going the whole long way.

Jaclyn felt it made some sense. She wants a smooth surface strip for a bike lane.

Ann asked about snow removal on pavers.

Patrick said they have not had an issue with the pavers on Parks and Rec parking lots for snow plowing, but there may be a problem with leaf removal.

Paul asked about the parking on Madison Street.

Patrick said on the south end there is an entrance. They are over granting right of way. The north leg of Madison is still being worked on.

Casey asked whether we could move on.

Jaclyn thanked Patrick for coming.

Patrick said to send questions to Mallory.

Jaclyn is happy to hear that they will redesign Second Street.

- b. Ann noted that the Sidewalk Committee has been reinstated.

Mallory said that the city will use the methodology that we discussed and approved. There will be 4 (Dave Rollo, Kate Rosenbarger, Ron Smith, and Steve Volan) members of the committee. These four people were on the Transportation Committee, and they approved the recommended projects last year.

Casey noted that it looks bad but that she has more faith that it will work.

- c. Ann noted that at the last meeting we said that we would discuss questions for Parks and Rec regarding their MUPs.

Jaclyn said that she hadn't had a chance to talk with Beth and Neil about questions regarding MUPS. She will update us when that happens.

5. Old Business

- a. Resident-led Traffic Calming

Mallory: There are 10 days for residents to submit a letter of intent. She has meetings scheduled with applicants. There may be more. She will post on social media. She encourages us to share with our networks.

6. New Business

- a. Review Outreach Methods for Resident-Led Traffic Calming Program

Mallory said that with neighborhood greenway projects they are working on getting more involvement. The first meeting with Green Acres had only 2 attendees. The first on Broadview had only 4 attendees. She is working with IU students to come up with a survey. There will be a link to the survey on the posters, which were effective in getting neighborhood involvement. The survey will ask demographic input and qualitative as well as quantitative questions. Mallory is working with HAND to try to contact property management to get mailings to renters. They will use the HAND newsletter to seek input. They will do a press release. They will try to get word out early on to people to get early feedback.

Ann noted that some people don't have computer access.

Mallory said she could add a phone number for people to ask for a paper copy of the survey, and the survey would work with a smart phone.

Jaclyn suggested going through neighborhood associations.

Mallory will try to have meetings as close as possible to being on site.
She will get the Bryan Park shelter for the Hawthorne greenway.
She will try to get a site for the Allen greenway discussion.

b. Survey questions for Neighborhood Greenways

Mallory will send us a draft of the questions when she has them.

7. Public Comment

8. Adjourn



**TRAFFIC/BPSC COMMISSION
STAFF REPORT**

Case #: TC-22-01
Date: March 23, 2022

FROM: Beth Rosenbarger, AICP, Planning and Transportation Department
Neil Kopper, PE, Engineering Department

REQUEST: Modifications to Henderson Street

Location: Henderson Street between 2nd Street and Smith Avenue

Description and purpose: The City of Bloomington is recommending changes to Henderson Street in order to create an east-west connection between Smith Avenue and Hunter Avenue. Smith Avenue and Hunter Avenue are both part of an east-west Neighborhood Greenway, identified in the Transportation Plan as NG-4 “E Hunter Ave Neighborhood Greenway.” The east-west connection follows Howe Street, Smith Avenue, and Hunter Avenue for approximately 2.1 miles east-west.

Henderson Street is one-way, northbound, bicyclists attempting to travel eastbound on Smith Avenue and connect to Hunter Avenue—a half block south—lack options to travel southbound on Henderson. The proposed changes would repurpose an underutilized motor vehicle lane to be a multiuse path for pedestrians and bicyclists, thereby allowing bicyclists to travel southbound on this portion of Henderson. South of Hunter Avenue, it is recommended to continue the southbound bicycle lane until it reaches the intersection with 2nd Street.

This connection is a Recommended Project in the Transportation Plan and included in the Priority Bicycle Facilities Network, Phase 1.

Title 15 Changes: Section 15.16.010 will need to be edited to allow southbound bicycle travel on the northbound one-way street. This change can be made by adding an existing footnote to Schedule E “One Way Streets” as follows:

Street	From	To	Direction of Travel
Henderson Street	Second Street	Indiana Avenue	North (1)

(1) One-way travel for motor vehicle traffic only. Two-way bicycle traffic permitted.

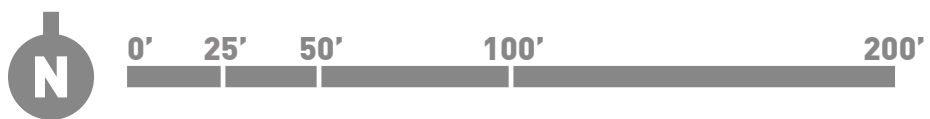
Recommendation:

Staff recommends that the Commission forward the Title 15 changes to Council with a positive recommendation.



HENDERSON STREET

BLOOMINGTON GREENWAYS - CONCEPT PLANS | 07.23.2021





**TRAFFIC/BPSC COMMISSION
STAFF REPORT**

Case #: TC-22-02
Date: March 23, 2022

FROM: Beth Rosenbarger, AICP, Planning and Transportation Department
Neil Kopper, PE, Engineering Department

REQUEST: Modifications to 17th Street

Location: 17th Street from Monroe Street to Grant Street (approximately)

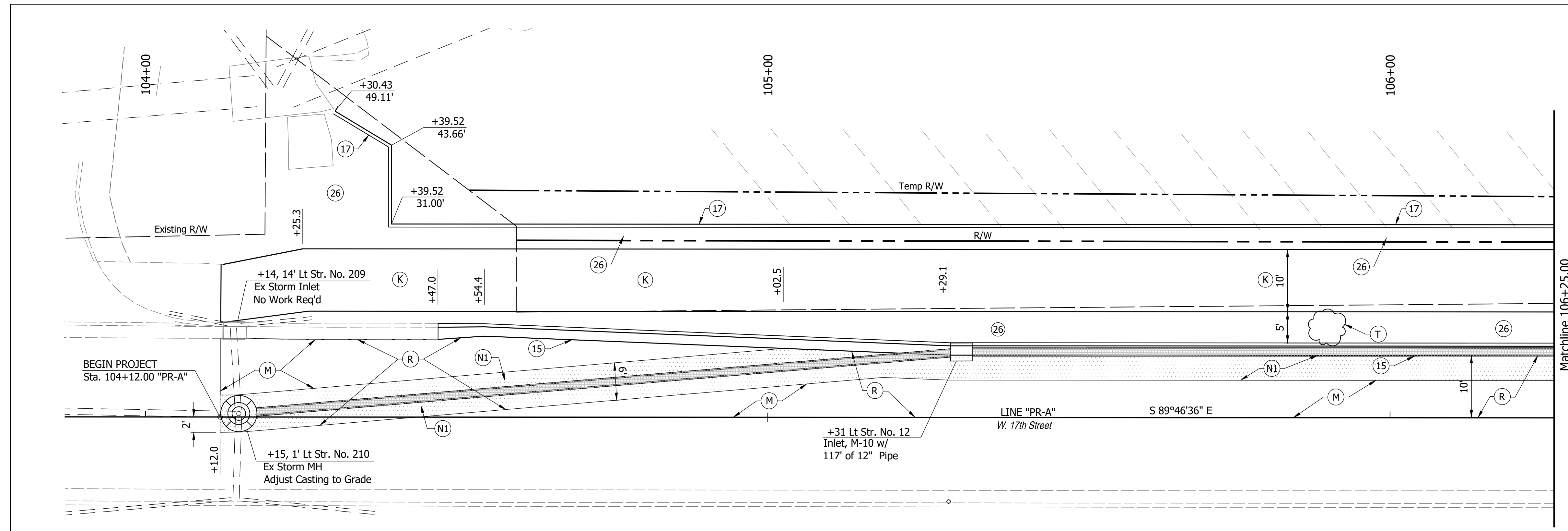
Description and purpose: The City of Bloomington will be constructing a multiuse path on the north side of 17th Street. The plans are included in the packet. The multiuse path will be approximately 10 feet wide, separated from motor vehicle traffic with a curb and green space. This multiuse path will connect with existing multiuse path on both ends.

This multiuse path is a Recommended Project in the Transportation Plan and included in the Priority Bicycle Facilities Network, Phase 2.

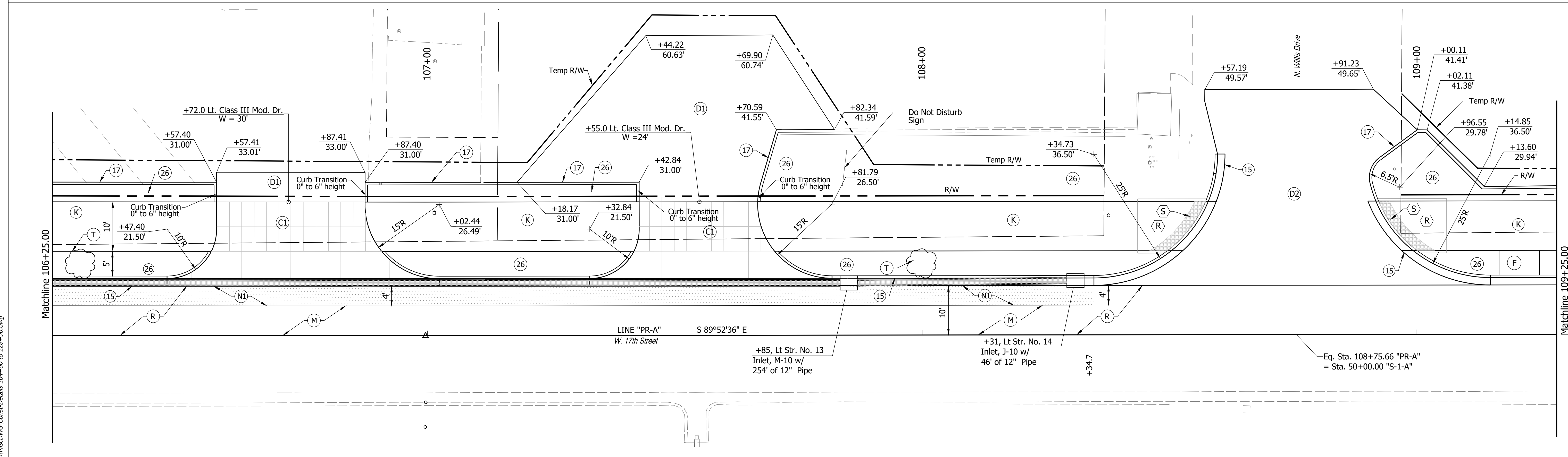
Title 15 Changes: Title 15 will need to be amended to update the Speed Limit where this project proposes changes. Title 15 will need to be amended to correct and add intersections along this project to "15.20.020 Restricted turns on red at signalized intersections."

Recommendation:

Staff recommends that the Commission forward the Title 15 changes to Council with a positive recommendation.

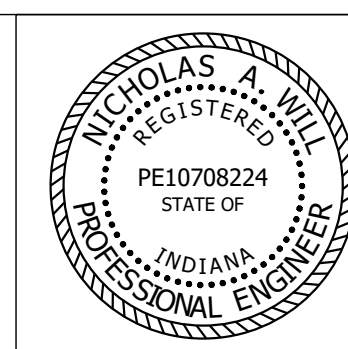


- LEGEND**
- (C1) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
 - (D1) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB
 - (D2) 770#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 330#/SY HMA Base, Type B on 3" Aggregated No. 53 Subgrade Treatment Type IV
 - (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
 - (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
 - (M) Milling, Asphalt, 1.5"
 - (N1) HMA For Patching, Type B 275#/SYS HMA Type B, Intermediate on 330#/SYS HMA Type B, Base on 3" Aggregated No. 53 Subgrade Treatment Type IV
 - (R) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm
 - (T) Plant, Deciduous Tree, Single Stem, 2" to 2.5" (Tree Species See this Sheet)
 - (15) Curb & Gutter, Concrete, Modified
 - (17) Curb, Concrete
 - (26) Sodding, Nursery
 - (R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
 - (S) Detectable Warning Surface



Notes:
All Stationing off Line "PR-A" Unless Otherwise Noted.

Native trees:
Blackgum
Shumard Oak
Shingle Oak
Hackberry
Kentucky Coffeetree
Swamp White Oak



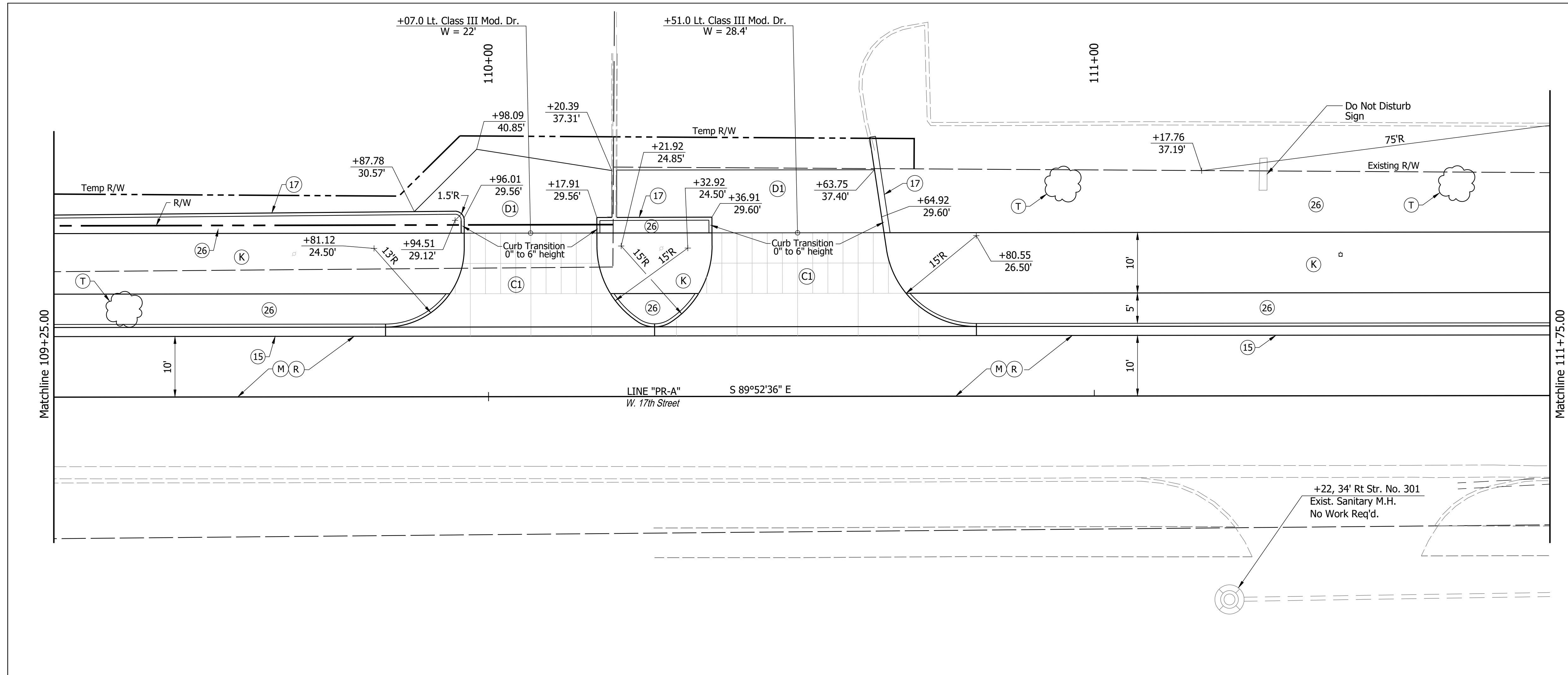
RECOMMENDED FOR APPROVAL: *Nicholas A. Will*, DESIGN ENGINEER, 12/27/2021, DATE

DESIGNED: JAF, DRAWN: RTL
CHECKED: NAW, CHECKED: JAF

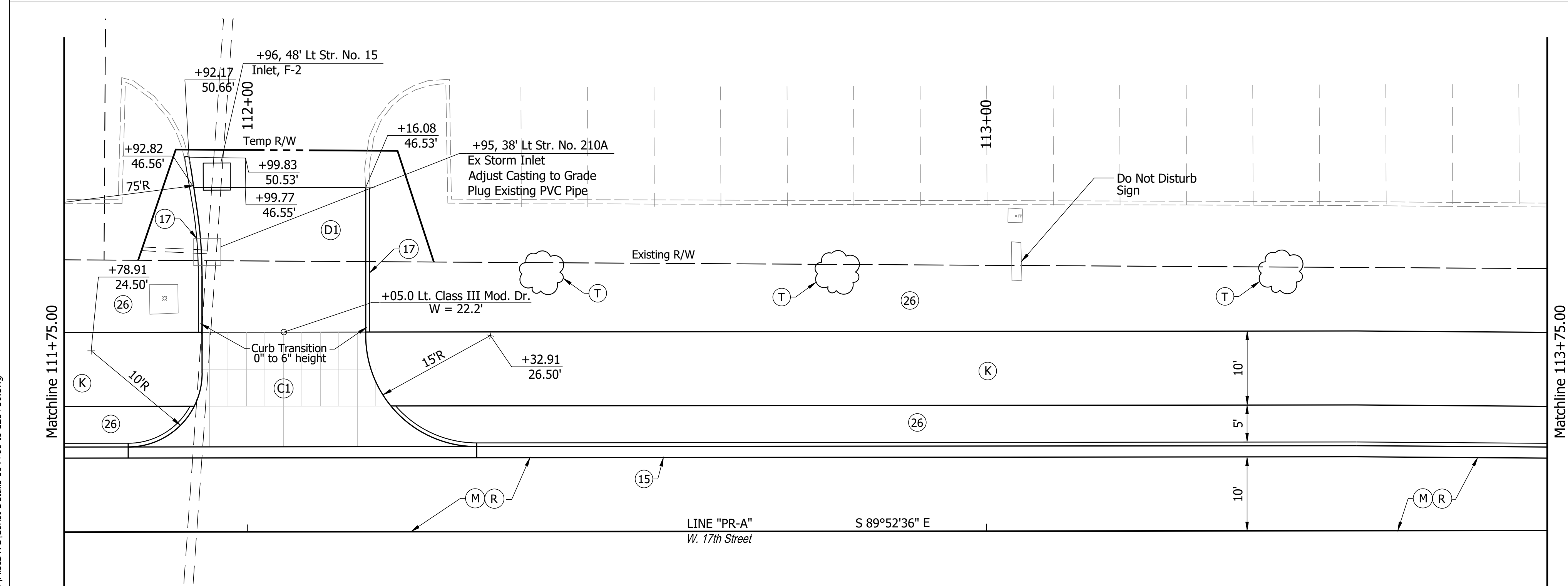
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- LEGEND**
- (C1) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
 - (D1) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB
 - (K) Multi-Use Trail
4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
 - (M) Milling, Asphalt, 1.5"
 - (R) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm
 - (T) Plant, Deciduous Tree, Single Stem, 2" to 2.5" (Tree Species See this Sheet)
 - (15) Curb & Gutter, Concrete, Modified
 - (17) Curb, Concrete
 - (26) Sodding, Nursery



- Native trees:**
- Blackgum
 - Shumard Oak
 - Shingle Oak
 - Hackberry
 - Kentucky Coffeetree
 - Swamp White Oak

Notes:
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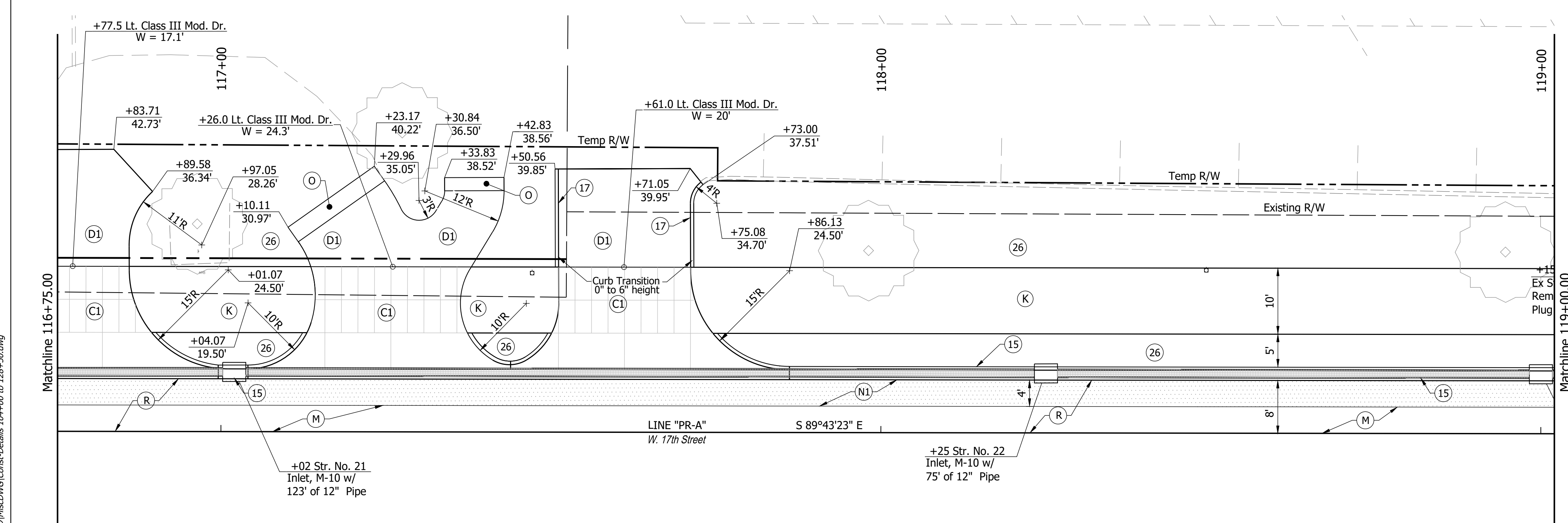
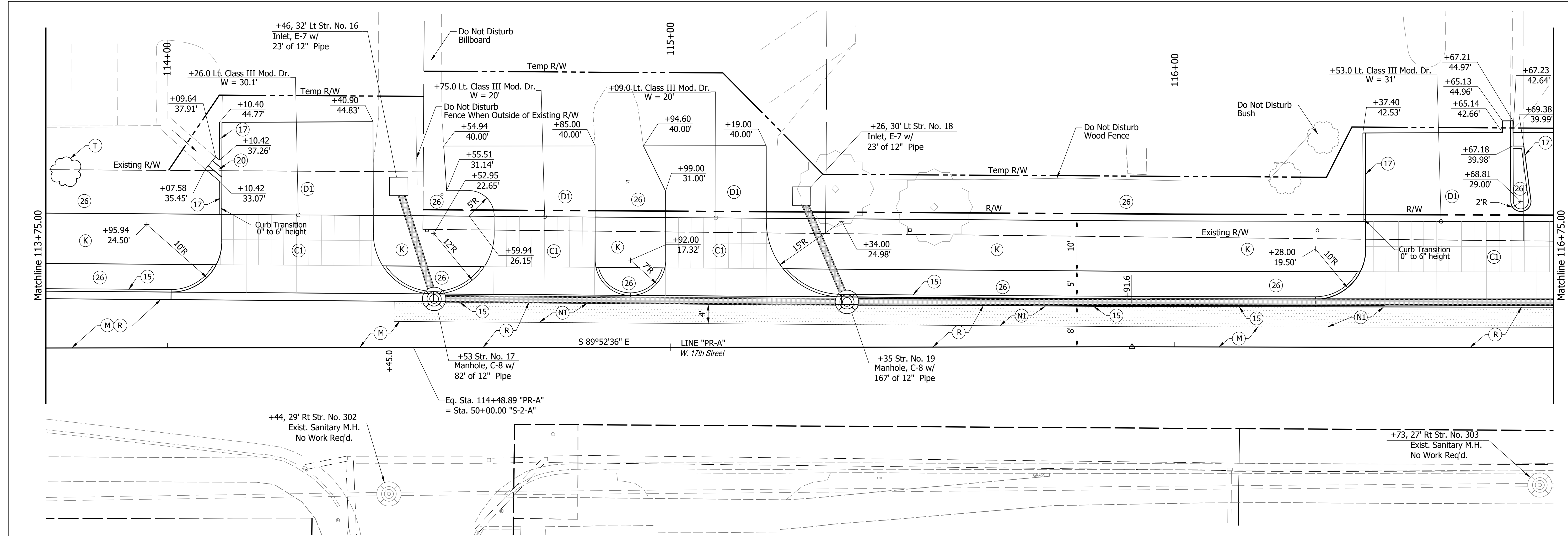
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	DESIGNED:	JAF	DRAWN:	RTL
	CHECKED:	NAW	CHECKED:	JAF

INDIANA
DEPARTMENT OF TRANSPORTATION

**CONSTRUCTION DETAILS LINE "PR-A"
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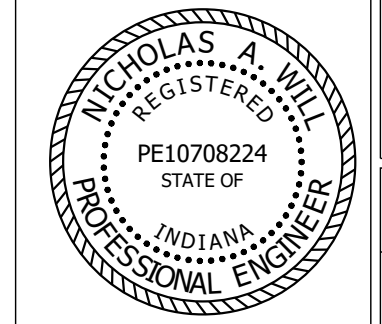
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- LEGEND**
- (C1) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
 - (D1) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB on
 - (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
 - (M) Milling, Asphalt, 1.5"
 - (N1) HMA For Patching, Type B 275#/SYS HMA Type B, Intermediate on 330#/SYS HMA Type B, Base on 3" Aggregated No. 53 Subgrade Treatment Type IV
 - (O) Compacted Aggregate, No. 53
 - (R) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm
 - (T) Plant, Deciduous Tree, Single Stem, 2" to 2.5" (Tree Species See this Sheet)
 - 15 Curb & Gutter, Concrete, Modified
 - 17 Curb, Concrete
 - 20 Gutter, Concrete, A
 - 26 Sodding, Nursery

Notes:
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Native trees:
Blackgum
Shumard Oak
Shingle Oak
Hackberry
Kentucky Coffeetree
Swamp White Oak



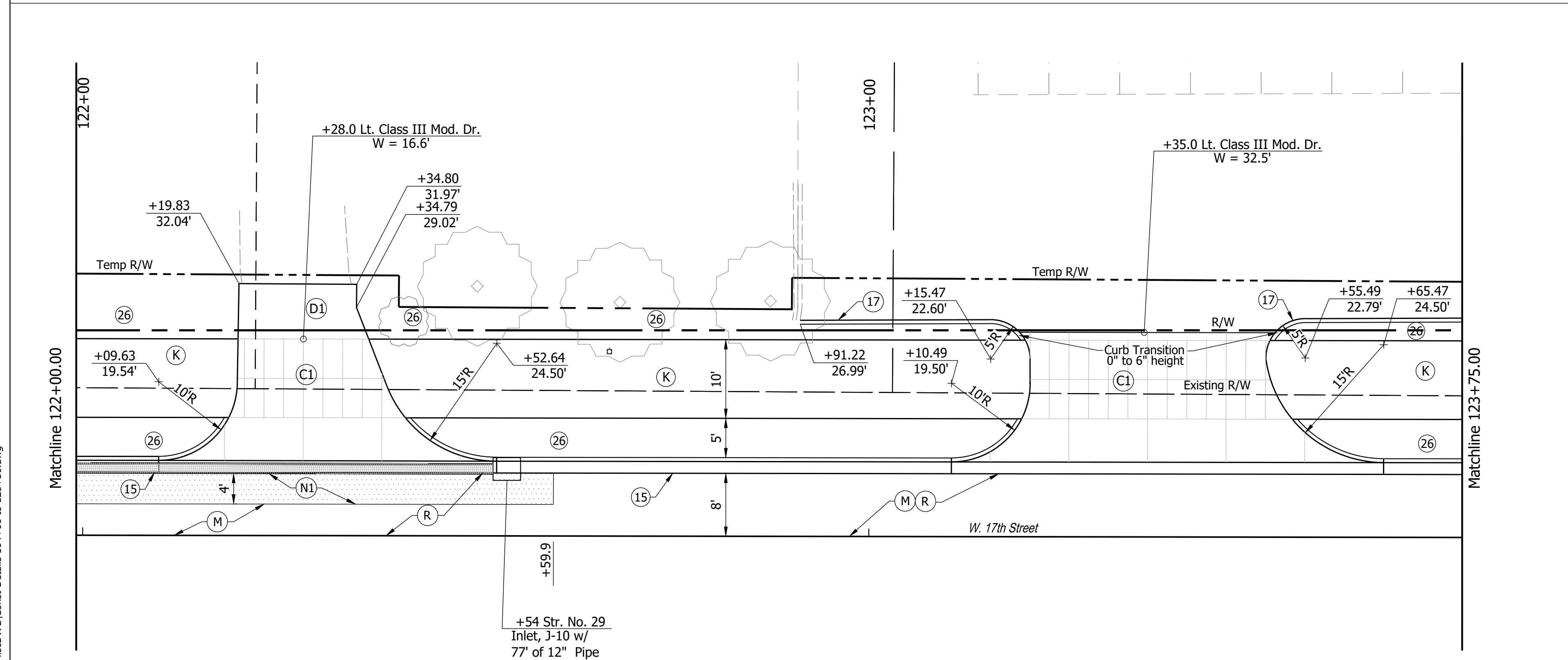
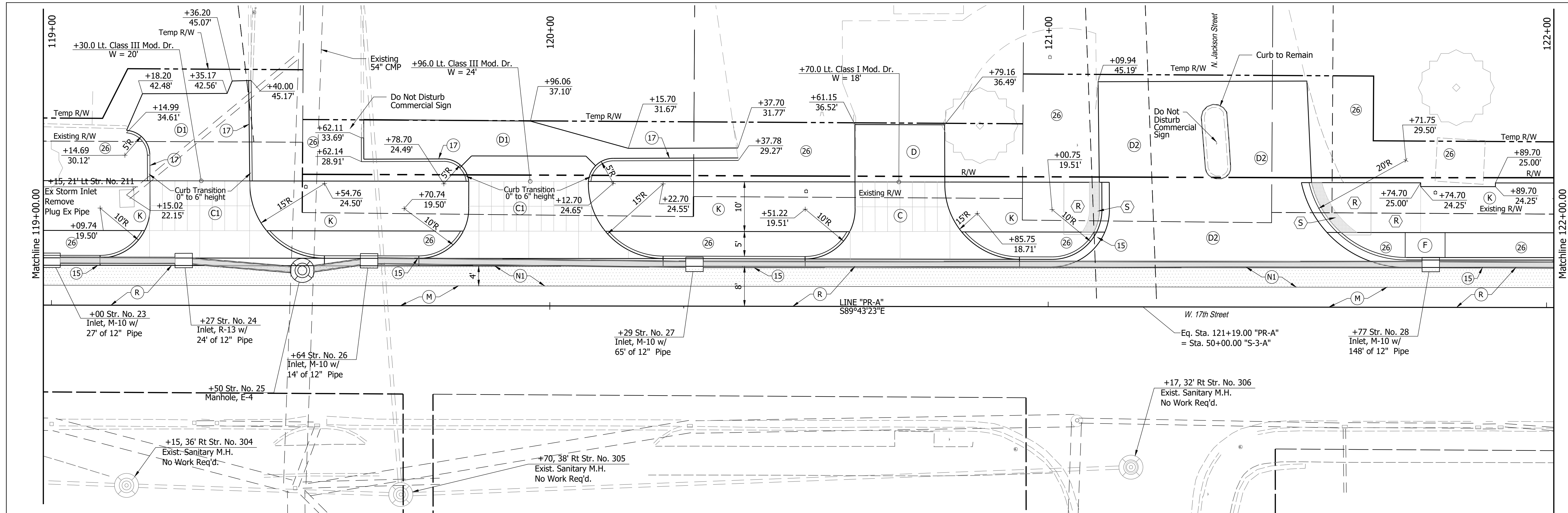
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DESIGNED: JAF, DRAWN: RTL
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INDIANA DEPARTMENT OF TRANSPORTATION
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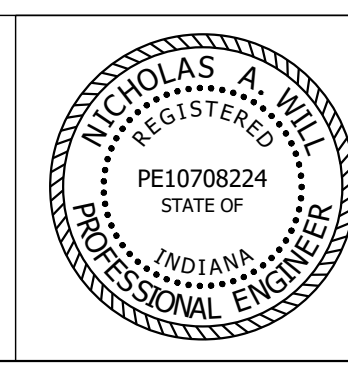
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- LEGEND**
- (C) PCCP For Approaches, 6" Mod. on Dense Graded Subbase, on Subgrade Treatment Type II
 - (C1) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
 - (D) 440#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 6" Compacted Aggregate, No. 53 on Subgrade Treatment Type II
 - (D1) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB
 - (D2) 770#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 330#/SY HMA Base, Type B on 3" Aggregated No. 53 Subgrade Treatment Type IV
 - (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
 - (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
 - (M) Milling, Asphalt, 1.5"
 - (N1) HMA For Patching, Type B 275#/SY HMA Type B, Intermediate on 330#/SY HMA Type B, Base on 3" Aggregated No. 53 Subgrade Treatment Type IV
 - (R) 165#/SY QC/QA-HMA 3, 64, Surface 9.5mm
 - (R1) 165#/SY QC/QA-HMA 3, 64, Surface 9.5mm on Var Depth QC/QA-HMA Intermediate, Varies 0" To 4"
 - (15) Curb & Gutter, Concrete, Modified
 - (17) Curb, Concrete
 - (26) Sodding, Nursery
 - (R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
 - (S) Detectable Warning Surface

Notes:
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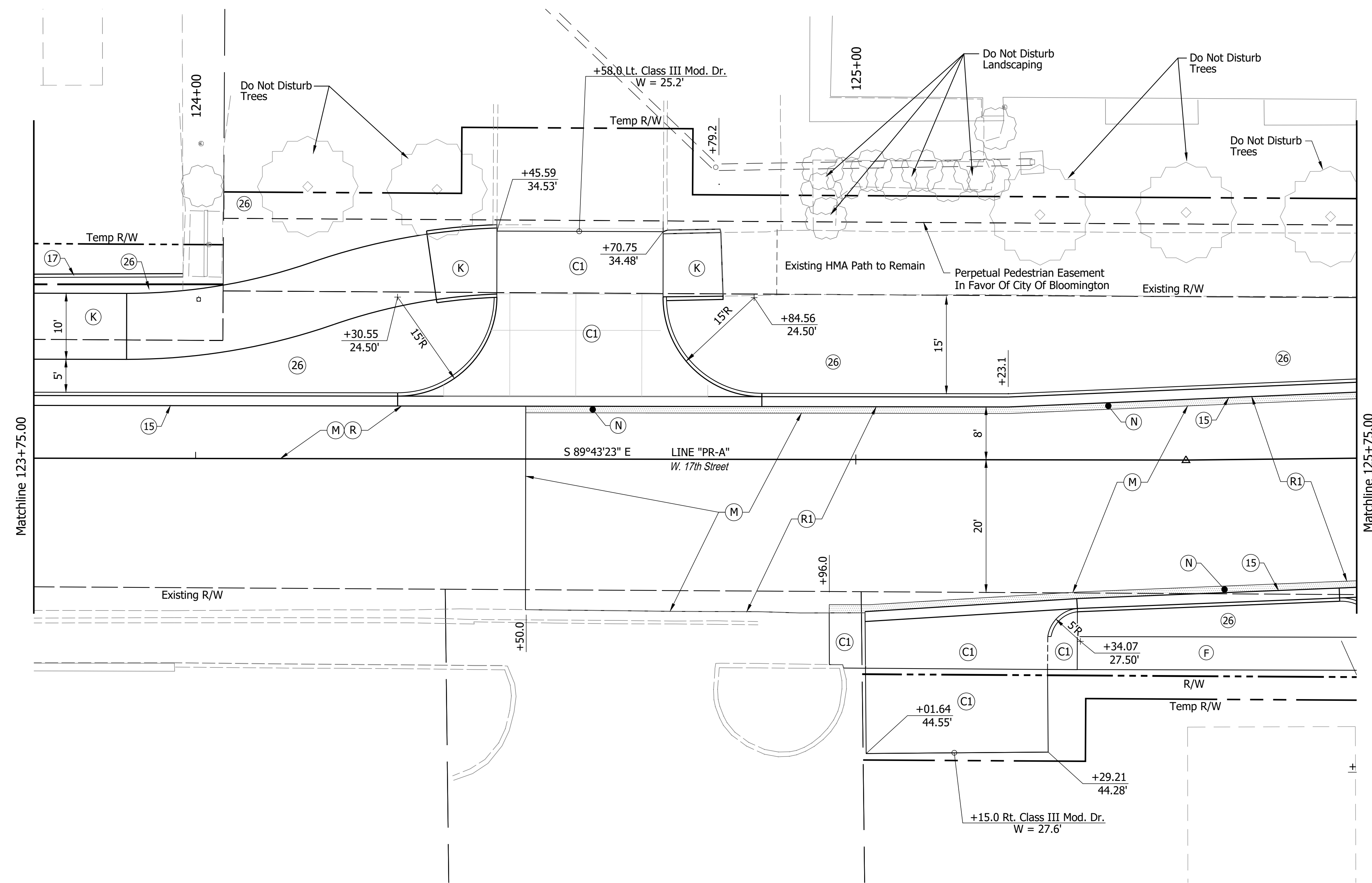
RECOMMENDED FOR APPROVAL: *Nicholas A. Will*
 DESIGN ENGINEER DATE: 12/27/2021

DESIGNED: JAF DRAWN: RTL
 CHECKED: NAW CHECKED: JAF

INDIANA DEPARTMENT OF TRANSPORTATION
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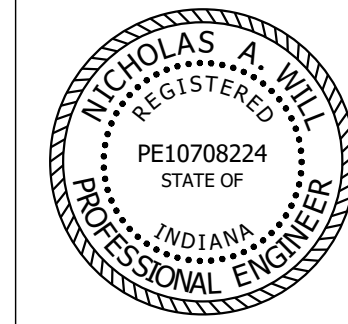
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- LEGEND**
- (C1) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
 - (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
 - (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
 - (M) Milling, Asphalt, 1.5"
 - (N) PCC Base Patching, 7" on 3" Compacted Aggregate, No. 53 Subgrade Treatment Type IV
 - (R) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm
 - (R1) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
 - (15) Curb & Gutter, Concrete, Modified
 - (17) Curb, Concrete
 - (26) Sodding, Nursery

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RECOMMENDED FOR APPROVAL: *Nicholas A. Will*, DESIGN ENGINEER, 12/27/2021, DATE

DESIGNED: JAF, DRAWN: RTL

CHECKED: NAW, CHECKED: JAF

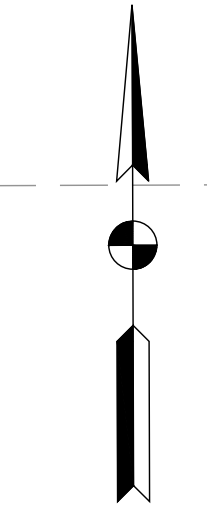
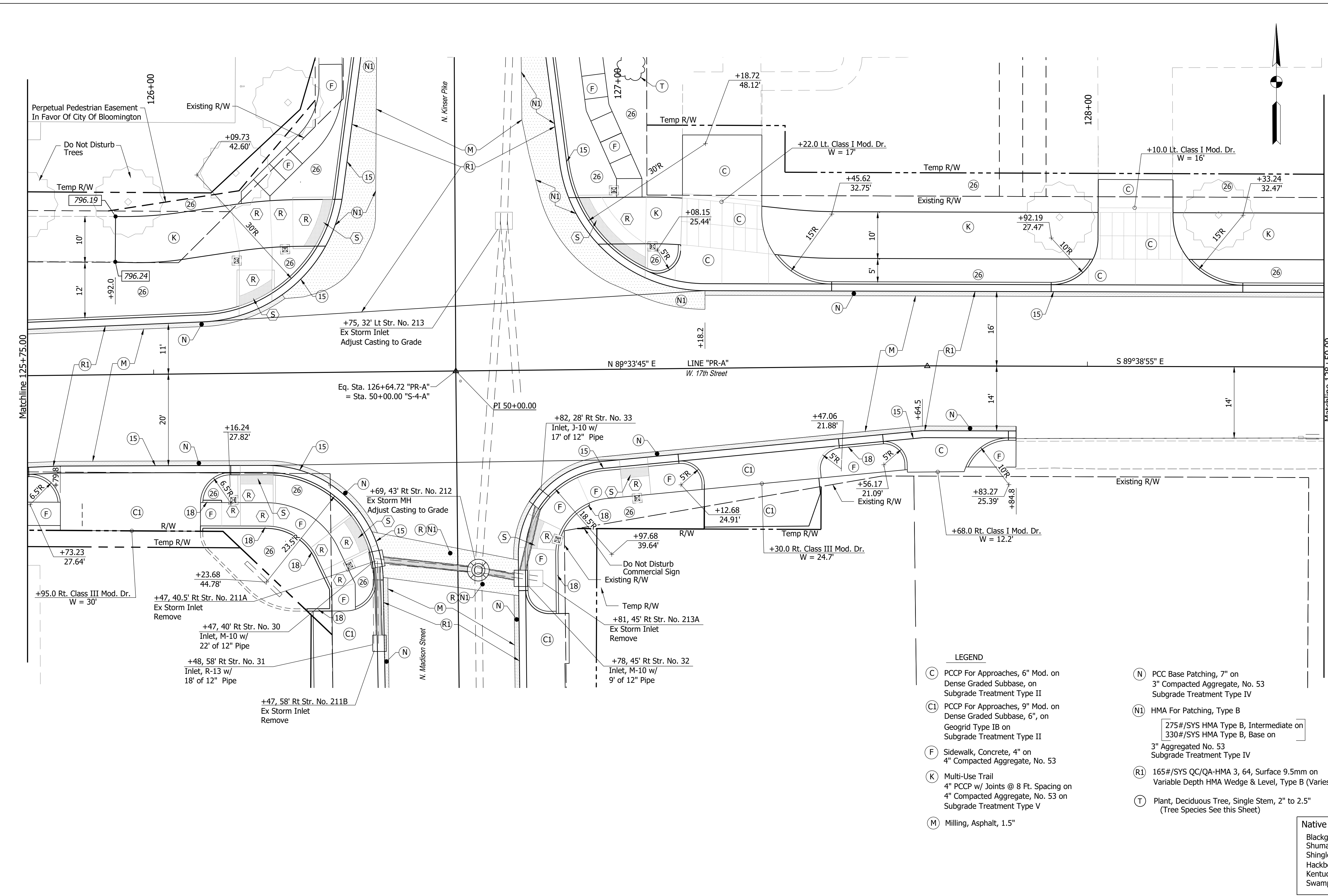
INDIANA DEPARTMENT OF TRANSPORTATION

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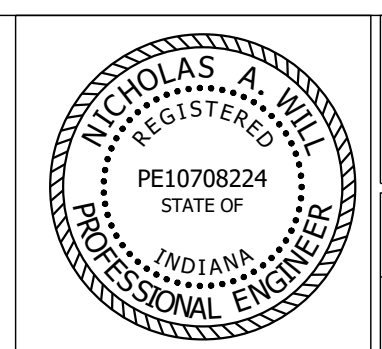


- LEGEND**
- (C) PCCP For Approaches, 6" Mod. on Dense Graded Subbase, on Subgrade Treatment Type II
 - (CI) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
 - (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
 - (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
 - (M) Milling, Asphalt, 1.5"
 - (N) PCC Base Patching, 7" on 3" Compacted Aggregate, No. 53 Subgrade Treatment Type IV
 - (NI) HMA For Patching, Type B
 275#/SYS HMA Type B, Intermediate on 330#/SYS HMA Type B, Base on 3" Aggregated No. 53 Subgrade Treatment Type IV
 - (R) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
 - (T) Plant, Deciduous Tree, Single Stem, 2" to 2.5" (Tree Species See this Sheet)
 - (15) Curb & Gutter, Concrete, Modified
 - (18) Curb, Integral Concrete
 - (26) Sodding, Nursery
 - (R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
 - (S) Detectable Warning Surface

Native trees:

- Blackgum
- Shumard Oak
- Shingle Oak
- Hackberry
- Kentucky Coffeetree
- Swamp White Oak

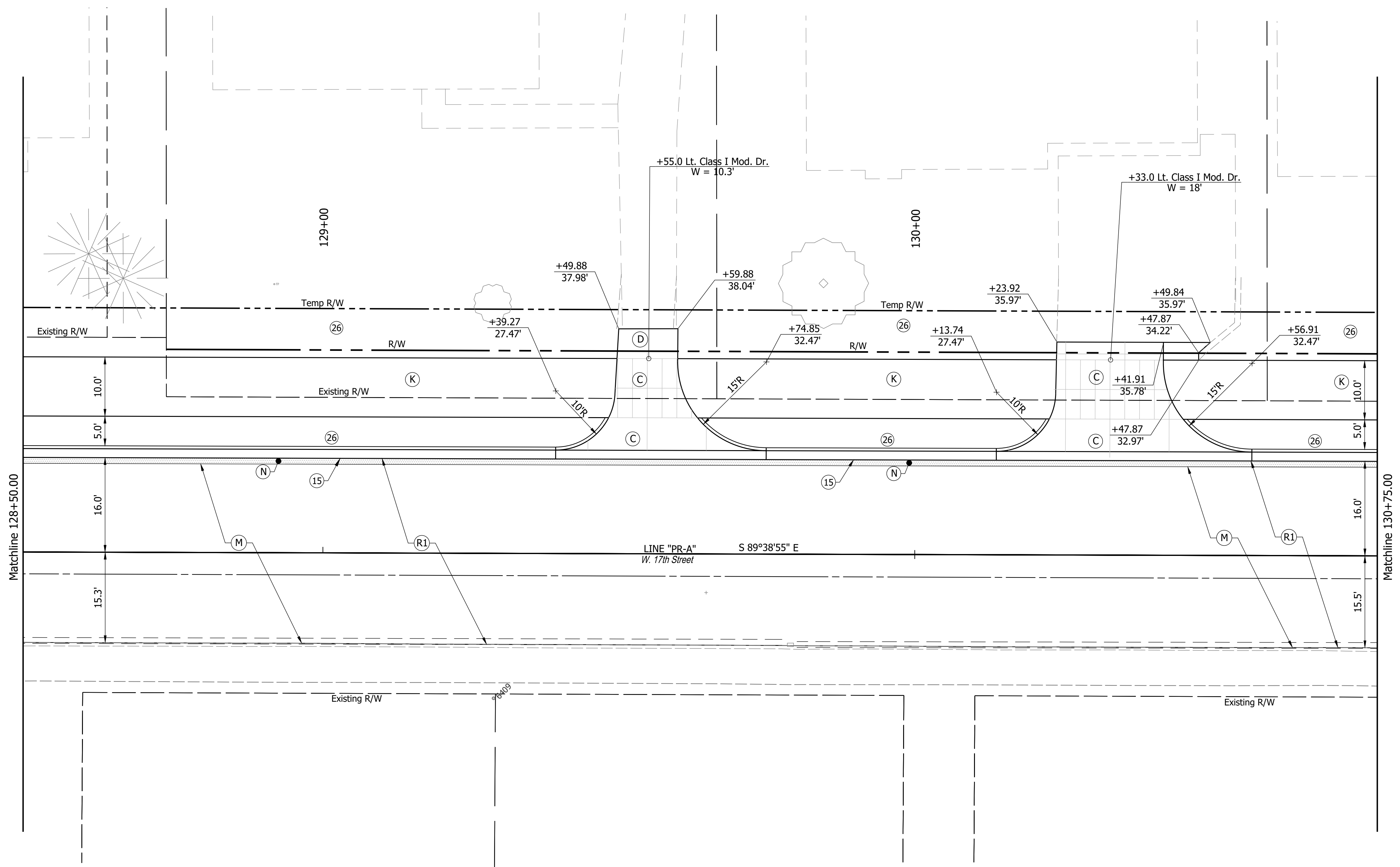
Notes:
 All Stationing off Line "PR-A" Unless Otherwise Noted.
 See Curb Ramp Details for Additional Information.



RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	DESIGN ENGINEER	12/27/2021
DESIGNED:	JAF	DRAWN:	RTL
CHECKED:	NAW	CHECKED:	JAF

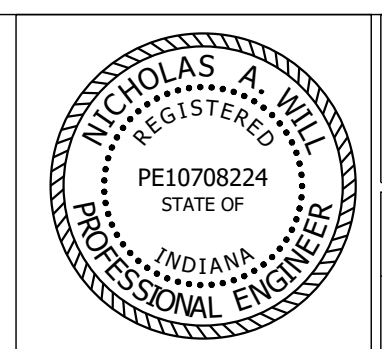
INDIANA
 DEPARTMENT OF TRANSPORTATION
CONSTRUCTION DETAILS LINE "PR-A"
STA. 125+75 TO 128+50

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	-
VERTICAL SCALE	DESIGNATION
---	1900402
SURVEY BOOK	SHEETS
	55 of 155
CONTRACT	PROJECT
R-41895	1900402



- LEGEND**
- (C) PCCP For Approaches, 6" Mod. on Dense Graded Subbase, on Subgrade Treatment Type II
 - (D) 440#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 6" Compacted Aggregate, No. 53 on Subgrade Treatment Type II
 - (K) Multi-Use Trail
4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
 - (M) Milling, Asphalt, 1.5"
 - (N) PCC Base Patching, 7" on 3" Compacted Aggregate, No. 53 Subgrade Treatment Type IV
 - (R1) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
 - (15) Curb & Gutter, Concrete, Modified
 - (26) Sodding, Nursery

Notes:
All Stationing off Line "PR-A" Unless Otherwise Noted.



RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	12/27/2021
	DESIGN ENGINEER	DATE
DESIGNED:	JAF	DRAWN: RTL
CHECKED:	NAW	CHECKED: JAF

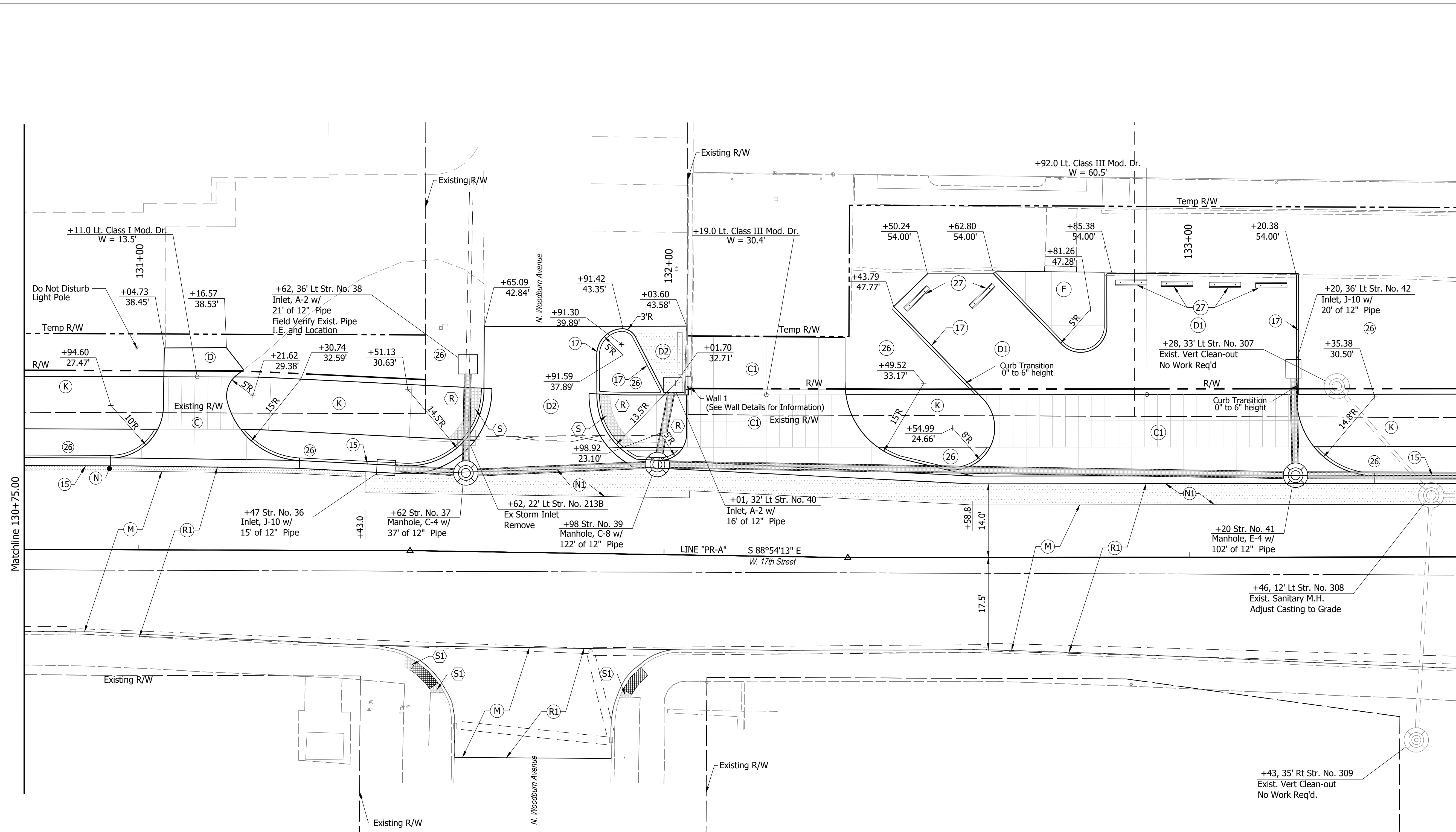
INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS LINE "PR-A"
STA. 128+50 TO 130+75

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	-
VERTICAL SCALE	DESIGNATION
---	1900402
SURVEY BOOK	SHEETS
	56 of 155
CONTRACT	PROJECT
R-41895	1900402

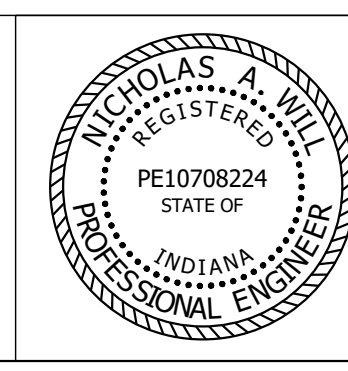
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Date: Dec 31, 2021, 3:08pm User Name: eolson
 File: S:_2019\119-0055\Road\CAD\Misc\DWG\Const-Detail\128-50 to 143+50.dwg



- LEGEND**
- (C) PCCP For Approaches, 6" Mod. on Dense Graded Subbase, on Subgrade Treatment Type II
 - (C1) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
 - (D) 440#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 6" Compacted Aggregate, No. 53 on Subgrade Treatment Type II
 - (D1) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB
 - (D2) 770#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 330#/SY HMA Base, Type B on 3" Aggregated No. 53 Subgrade Treatment Type IV
 - (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
 - (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
 - (M) Milling, Asphalt, 1.5"
 - (N) PCC Base Patching, 7" on 3" Compacted Aggregate, No. 53 Subgrade Treatment Type II
 - (N1) HMA For Patching, Type B 275#/SYS HMA Type B, Intermediate on 330#/SYS HMA Type B, Base on 3" Aggregated No. 53 Subgrade Treatment Type IV
 - (R1) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
 - (15) Curb & Gutter, Concrete, Modified
 - (17) Curb, Concrete
 - (26) Sodding, Nursery
 - (27) Parking Barrier, Concrete
 - (R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
 - (S) Detectable Warning Surface
 - (S1) Detectable Warning Surface, Retrofit

Notes:
 All Stationing off Line "PR-A" Unless Otherwise Noted.

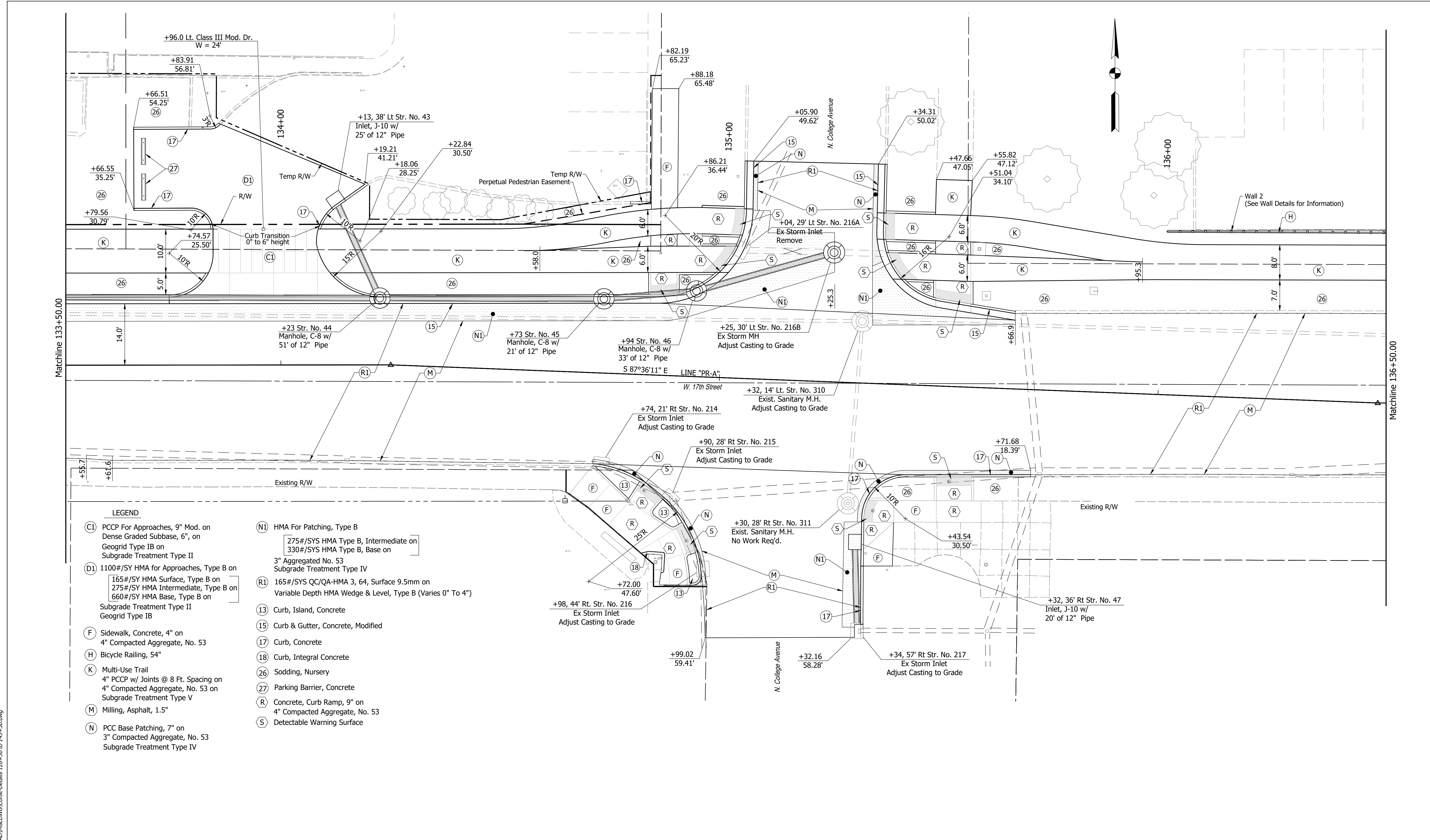


RECOMMENDED FOR APPROVAL: *Nicholas A. Will* DESIGN ENGINEER 12/27/2021 DATE

DESIGNED: JAF DRAWN: RTL
 CHECKED: NAW CHECKED: JAF

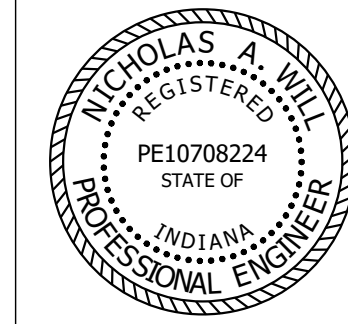
INDIANA DEPARTMENT OF TRANSPORTATION
 CONSTRUCTION DETAILS LINE "PR-A"
 STA. 130+75 TO 133+50

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	-
VERTICAL SCALE	DESIGNATION
---	1900402
SURVEY BOOK	SHEETS
	57 of 155
CONTRACT	PROJECT
R-41895	1900402



- LEGEND**
- (CI) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
 - (D1) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB
 - (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
 - (H) Bicycle Railing, 54"
 - (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
 - (M) Milling, Asphalt, 1.5"
 - (N) PCC Base Patching, 7" on 3" Compacted Aggregate, No. 53 Subgrade Treatment Type IV
 - (N1) HMA For Patching, Type B 275#/SYS HMA Type B, Intermediate on 330#/SYS HMA Type B, Base on 3" Aggregated No. 53 Subgrade Treatment Type IV
 - (R1) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
 - (13) Curb, Island, Concrete
 - (15) Curb & Gutter, Concrete, Modified
 - (17) Curb, Concrete
 - (18) Curb, Integral Concrete
 - (26) Sodding, Nursery
 - (27) Parking Barrier, Concrete
 - (R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
 - (S) Detectable Warning Surface

Notes:
All Stationing off Line "PR-A" Unless Otherwise Noted.



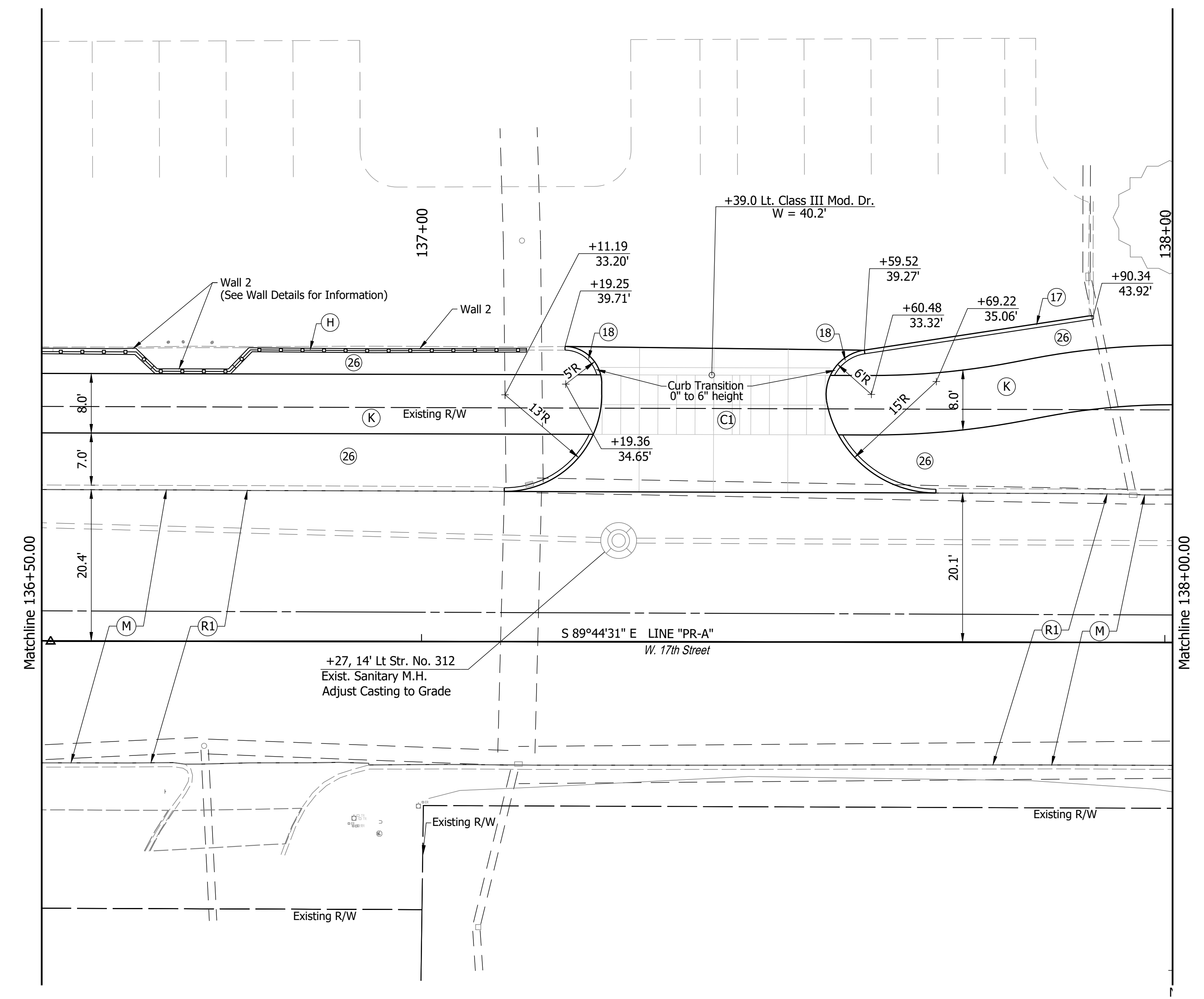
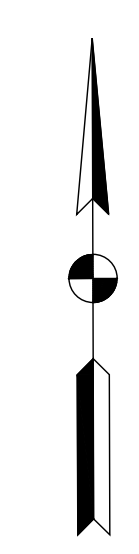
RECOMMENDED FOR APPROVAL: *Nicholas A. Will*
DESIGN ENGINEER
DATE: 12/27/2021

DESIGNED: JAF DRAWN: RTL
CHECKED: NAW CHECKED: JAF

INDIANA DEPARTMENT OF TRANSPORTATION
CONSTRUCTION DETAILS LINE "PR-A"
STA. 133+50 TO 136+50

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	-
VERTICAL SCALE	DESIGNATION
---	1900402
SURVEY BOOK	SHEETS
	58 of 155
CONTRACT	PROJECT
R-41895	1900402

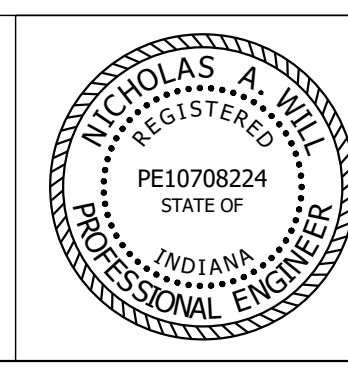
Date: Dec 31, 2021, 3:08pm User Name: eolson
File: S:_2019\119-0055\Road\CAD\Misc\DWG\Const-Detail_128-50 to 143+50.dwg



- LEGEND**
- (CI) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
 - (H) Bicycle Railing, 54"
 - (K) Multi-Use Trail
4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
 - (M) Milling, Asphalt, 1.5"
 - (R1) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
 - (17) Curb, Concrete
 - (18) Curb, Integral Concrete
 - (26) Sodding, Nursery

Date: Dec 31, 2021, 3:08pm User Name: eolson
File: S:_2019\19-0055 (Road)\CAD\Misc\DWG\Const-Detail\128+50 to 143+50.dwg

Notes:
All Stationing off Line "PR-A" Unless Otherwise Noted.

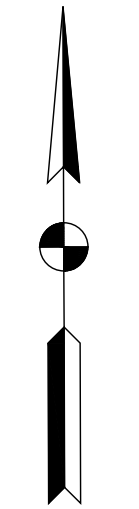
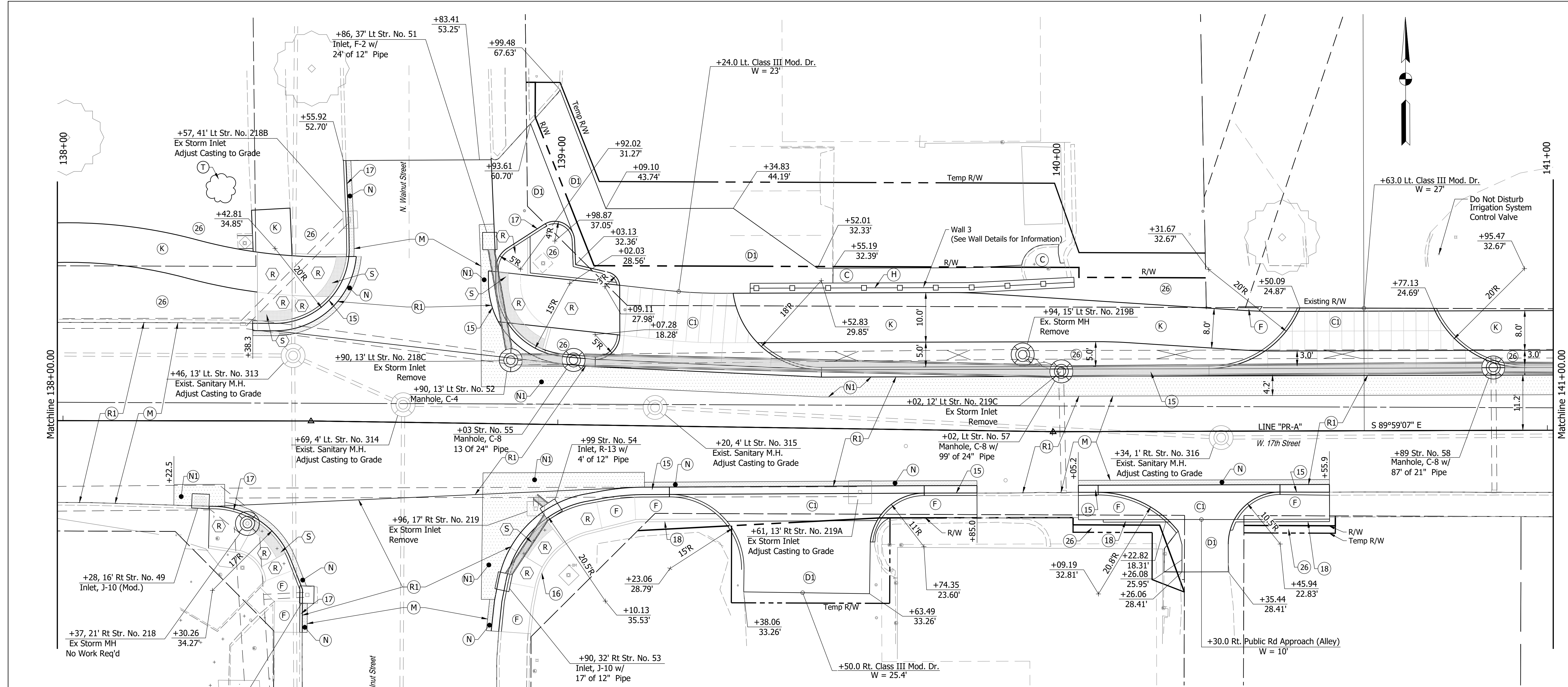


RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	DESIGN ENGINEER	12/27/2021	DATE
DESIGNED:	JAF	DRAWN:	RTL	
CHECKED:	NAW	CHECKED:	JAF	

INDIANA
DEPARTMENT OF TRANSPORTATION

**CONSTRUCTION DETAILS LINE "PR-A"
STA. 136+50 TO 138+00**

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	-
VERTICAL SCALE	DESIGNATION
---	1900402
SURVEY BOOK	SHEETS
	59 of 155
CONTRACT	PROJECT
R-41895	1900402



LEGEND

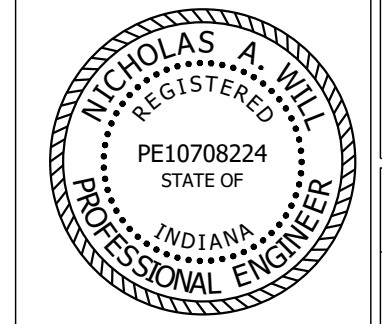
- (C) PCCP For Approaches, 6" Mod. on Dense Graded Subbase, on Subgrade Treatment Type II
- (CI) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
- (DI) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB on
- (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
- (H) Bicycle Railing, 54"
- (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
- (M) Milling, Asphalt, 1.5"
- (N) PCC Base Patching, 7" on 3" Compacted Aggregate, No. 53 Subgrade Treatment Type IV
- (NI) HMA For Patching, Type B 275#/SYS HMA Type B, Intermediate on 330#/SYS HMA Type B, Base on 3" Aggregated No. 53 Subgrade Treatment Type IV
- (RI) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
- (T) Plant, Deciduous Tree, Single Stem, 2" to 2.5" (Tree Species See this Sheet)
- (15) Curb & Gutter, Concrete, Modified
- (16) Curb, Integral Concrete, Mod.
- (17) Curb, Concrete
- (18) Curb, Integral Concrete
- (26) Sodding, Nursery
- (R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
- (S) Detectable Warning Surface

Native trees:

- Blackgum
- Shumard Oak
- Shingle Oak
- Hackberry
- Kentucky Coffeetree
- Swamp White Oak

Date: Dec 31, 2021, 3:08pm User Name: eolson File: S:_2019\119-0055(Road)\CAD\Misc\DWG\Const-Detail\128-50 to 143-50.dwg

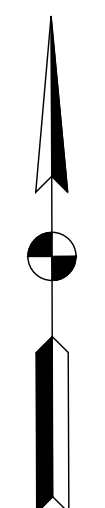
Notes:
All Stationing off Line "PR-A" Unless Otherwise Noted.



RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	DESIGN ENGINEER	12/27/2021
DESIGNED:	JAF	DRAWN:	RTL
CHECKED:	NAW	CHECKED:	JAF

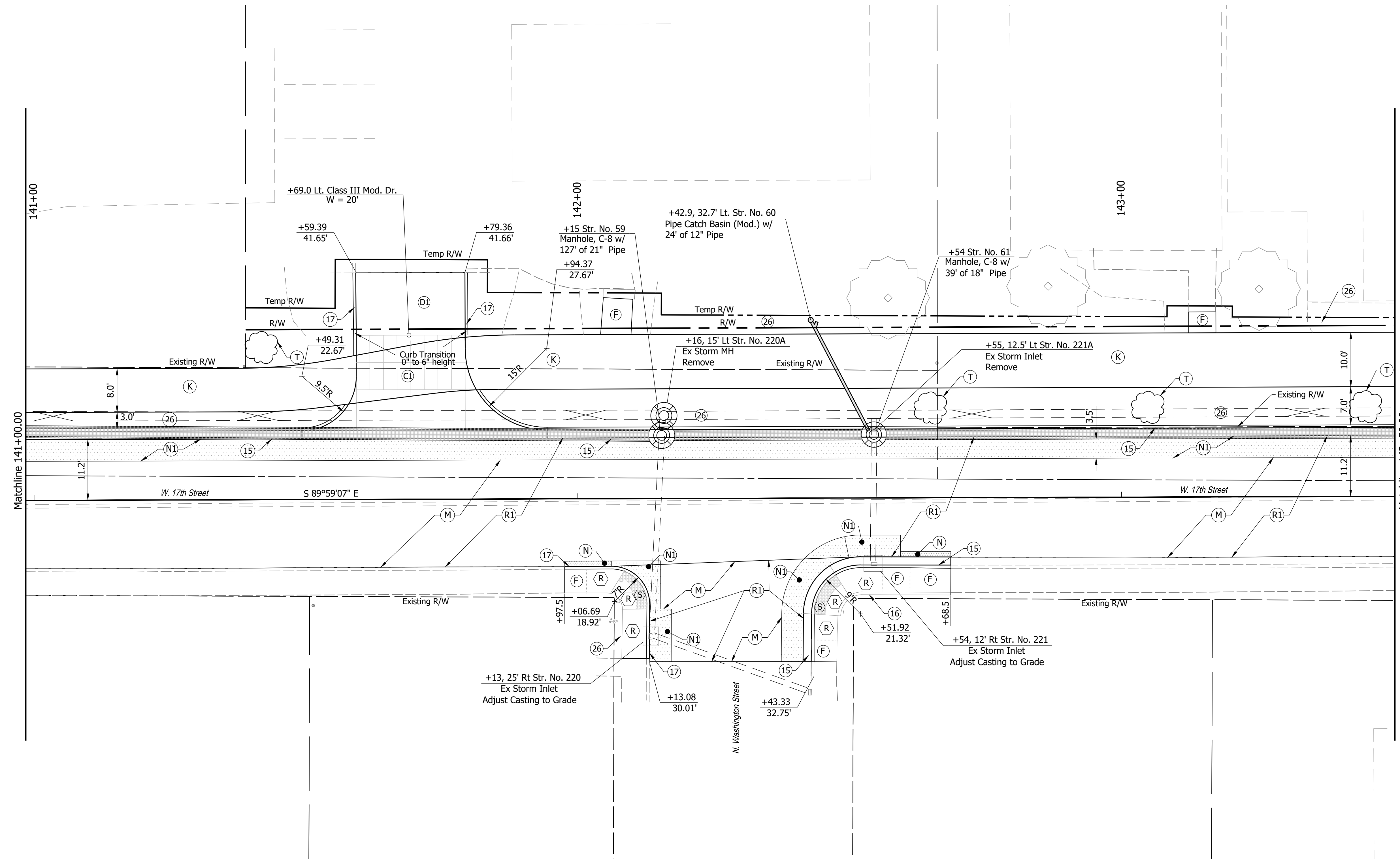
INDIANA DEPARTMENT OF TRANSPORTATION
CONSTRUCTION DETAILS LINE "PR-A"
STA. 138+00 TO 141+00

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	-
VERTICAL SCALE	DESIGNATION
---	1900402
SURVEY BOOK	SHEETS
	60 of 155
CONTRACT	PROJECT
R-41895	1900402

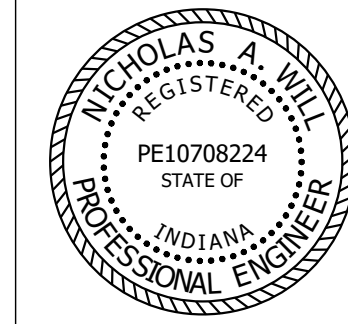


- LEGEND**
- (CI) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
 - (D1) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB on
 - (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
 - (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
 - (M) Milling, Asphalt, 1.5"
 - (N) PCC Base Patching, 7" on 3" Compacted Aggregate, No. 53 Subgrade Treatment Type IV
 - (N1) HMA For Patching, Type B 275#/SY HMA Type B, Intermediate on 330#/SY HMA Type B, Base on 3" Aggregated No. 53 Subgrade Treatment Type IV
 - (R1) 165#/SY QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
 - (T) Plant, Deciduous Tree, Single Stem, 2" to 2.5" (Tree Species See this Sheet)
 - (15) Curb & Gutter, Concrete, Modified
 - (16) Curb, Integral Concrete, Modified
 - (17) Curb, Concrete
 - (26) Sodding, Nursery
 - (R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
 - (S) Detectable Warning Surface

- Native trees:**
- Blackgum
 - Shumard Oak
 - Shingle Oak
 - Hackberry
 - Kentucky Coffeetree
 - Swamp White Oak



Notes:
All Stationing off Line "PR-A" Unless Otherwise Noted.



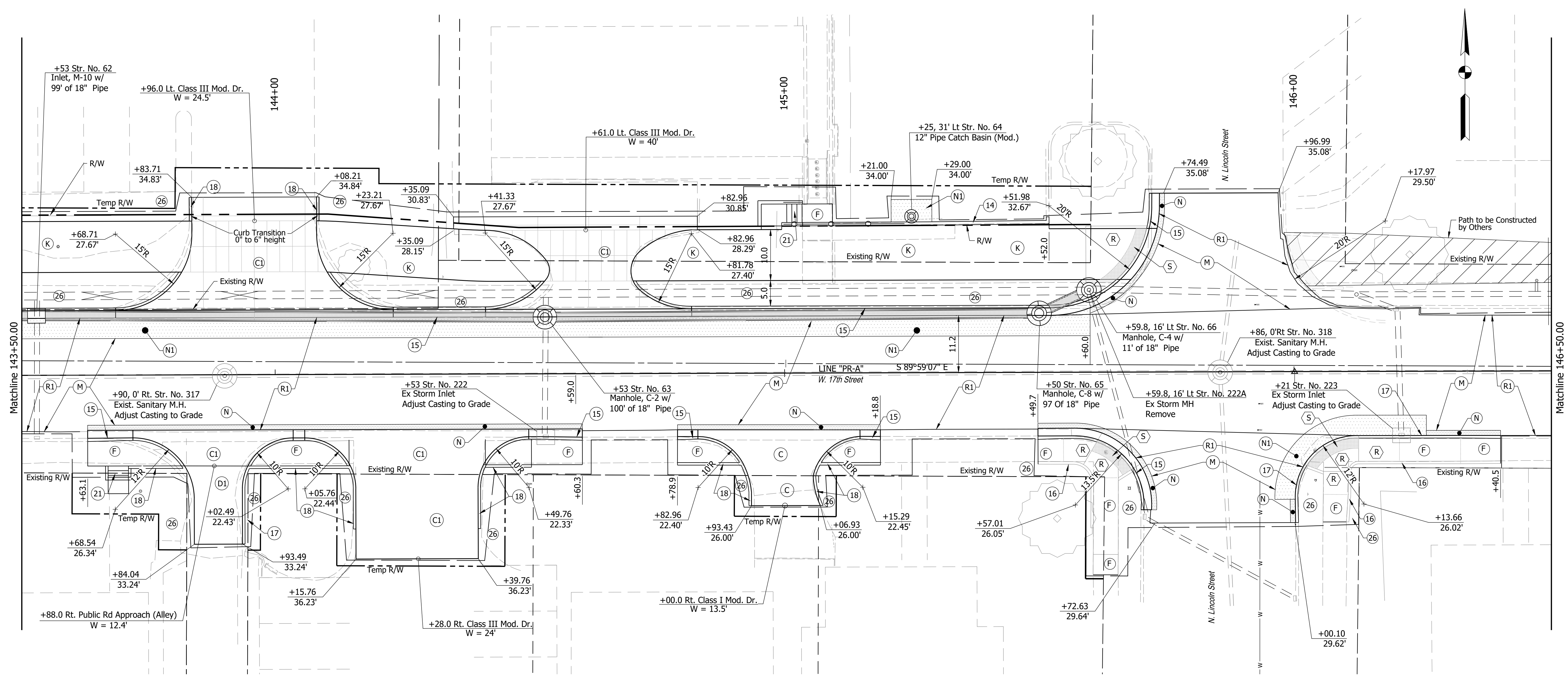
RECOMMENDED FOR APPROVAL: *Nicholas A. Will* 12/27/2021
DESIGN ENGINEER DATE

DESIGNED: JAF DRAWN: RTL
CHECKED: NAW CHECKED: JAF

INDIANA DEPARTMENT OF TRANSPORTATION
CONSTRUCTION DETAILS LINE "PR-A"
STA. 141+00 TO 143+50

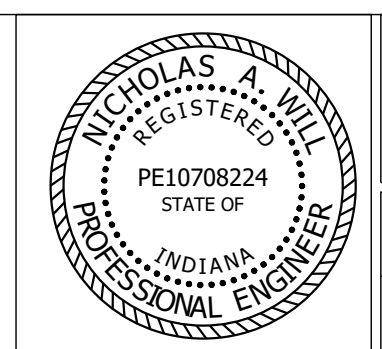
HORIZONTAL SCALE	BRIDGE FILE
1"=10'	-
VERTICAL SCALE	DESIGNATION
---	1900402
SURVEY BOOK	SHEETS
	61 of 155
CONTRACT	PROJECT
R-41895	1900402

Date: Dec 31, 2021, 3:09pm User Name: eolson
File: S:_2019\119-0055 (Road)\CAD\Misc\DWG\Const-Detail_128+50 to 143+50.dwg



- LEGEND**
- (C) PCCP For Approaches, 6" Mod. on Dense Graded Subbase, on Subgrade Treatment Type II
 - (CI) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
 - (DI) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB on
 - (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
 - (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
 - (M) Milling, Asphalt, 1.5"
 - (N) PCC Base Patching, 7" on 3" Compacted Aggregate, No. 53 Subgrade Treatment Type IV
 - (NI) HMA For Patching, Type B 275#/SYS HMA Type B, Intermediate on 330#/SYS HMA Type B, Base on 3" Aggregated No. 53 Subgrade Treatment Type IV
 - (R1) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
 - (14) Curb, Concrete, Modified
 - (15) Curb & Gutter, Concrete, Modified
 - (16) Curb, Integral Concrete, Modified
 - (17) Curb, Concrete
 - (18) Curb, Integral Concrete
 - (21) Steps
 - (26) Sodding, Nursery
 - (R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
 - (S) Detectable Warning Surface

Notes:
All Stationing off Line "PR-A" Unless Otherwise Noted.



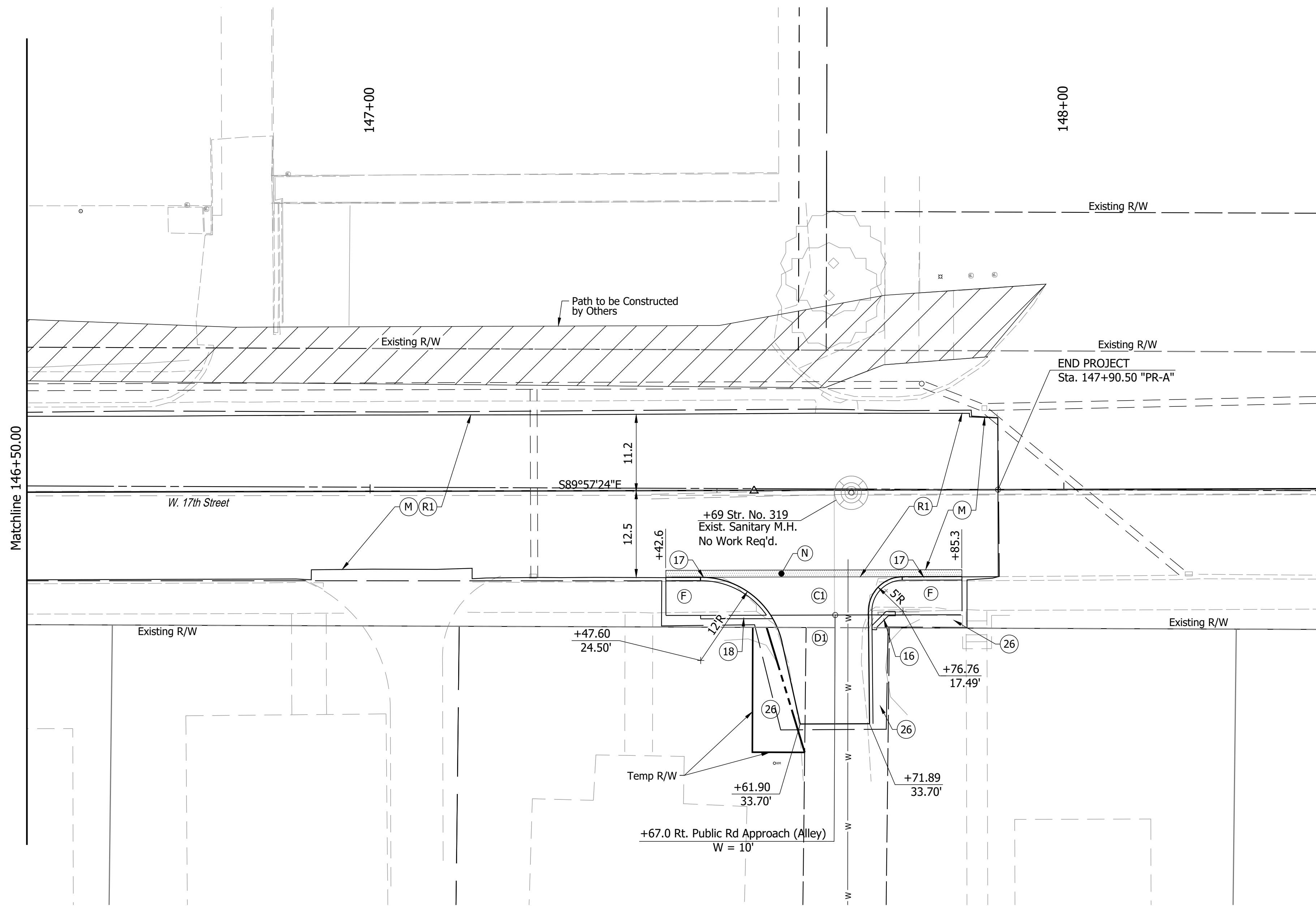
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DESIGN ENGINEER
DATE: 12/27/2021

DESIGNED: JAF DRAWN: RTL
CHECKED: NAW CHECKED: JAF

INDIANA DEPARTMENT OF TRANSPORTATION
CONSTRUCTION DETAILS LINE "PR-A"
STA. 143+50 TO 146+50

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	-
VERTICAL SCALE	DESIGNATION
---	1900402
SURVEY BOOK	SHEETS
	62 of 155
CONTRACT	PROJECT
R-41895	1900402

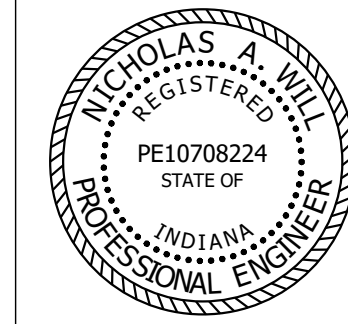
Date: Jan 04, 2022, 1:23pm User Name: edison
File: S:_2019\119-0055(Road\CAD)\Misc\DWG\Const-Detail_143+50 to 146+50.dwg



- LEGEND**
- (C1) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
 - (D1) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB on
 - (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
 - (M) Milling, Asphalt, 1.5"
 - (N) PCC Base Patching, 7" on 3" Compacted Aggregate, No. 53 Subgrade Treatment Type IV
 - (R1) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
 - (16) Curb, Integral Concrete, Modified
 - (17) Curb, Concrete
 - (18) Curb, Integral Concrete
 - (26) Sodding, Nursery

Date: Dec 31, 2021, 3:11pm User Name: eolson
File: S:_2019\119-0055 (Road)\CAD\Misc\DWG\Const-Detail\143+50 to 148+50.dwg

Notes:
All Stationing off Line "PR-A" Unless Otherwise Noted.



RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	12/27/2021
	DESIGN ENGINEER	DATE
DESIGNED: JAF	DRAWN: RTL	
CHECKED: NAW	CHECKED: JAF	

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS LINE "PR-A"
STA. 146+50 TO 148+50

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	-
VERTICAL SCALE	DESIGNATION
---	1900402
SURVEY BOOK	SHEETS
	63 of 155
CONTRACT	PROJECT
R-41895	1900402



**TRAFFIC/BPSC COMMISSION
STAFF REPORT**

Case #: TC-22-03
Date: March 23, 2022

FROM: Neil Kopper, PE, Engineering Department

REQUEST: Adding traffic signals on Walnut Street at 11th Street and 14th Street

Location: Walnut Street at 11th Street and 14th Street

Description and purpose: The City of Bloomington is adding traffic signals at two intersections on Walnut Street—11th Street and 14th Street intersections.

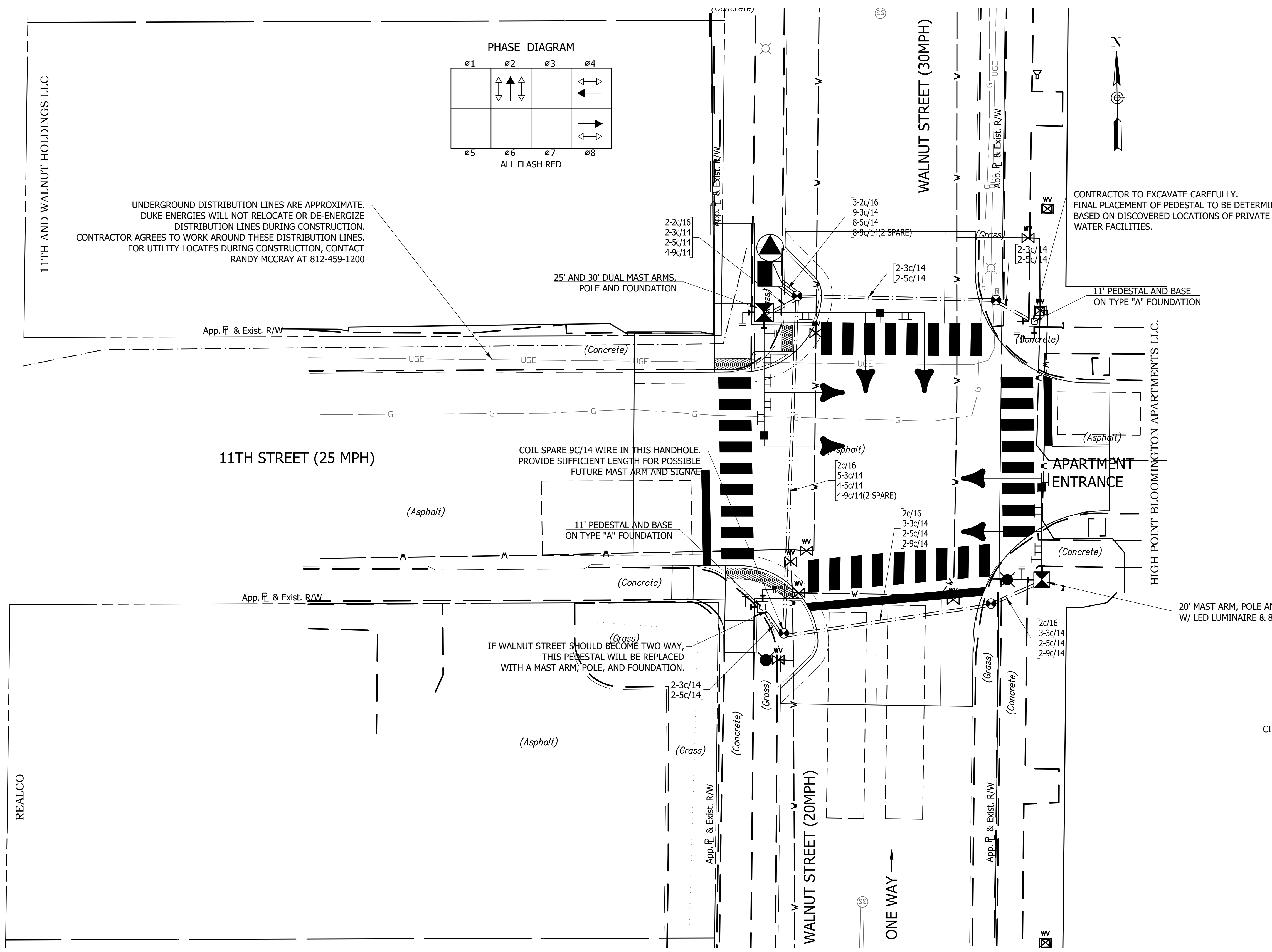
The traffic signals are being added to improve safety at these intersections.

Title 15 Changes: A Title 15 amendment will be proposed to Council to add the intersections to the list of signalized intersections. Title 15 will need to be amended to correct and add intersections along this project to “15.20.020 Restricted turns on red at signalized intersections.”

Recommendation:

Staff recommends that the Commission forward the Title 15 changes to Council with a positive recommendation.

DIRECTORY...F:\2019\19-4230 Bloomington signals walnut & 11th and walnut & 14th\30 sheetdrawings\70 Signal
 FILE...4230 Signal Plans.dwg
 DIMSCALE...1 LTSCALE...1
 PLOTTED BY...J.Eisenbauer
 DATE...Jul 27, 2021 - 2:55pm



- LEGEND**
- 1-WAY, 3-SECTION (12-INCH RED, 12-INCH AMBER, 12-INCH GREEN) SIGNAL INDICATION
 - CONTROLLER, 8-PHASE, MENU DRIVEN, IN CABINET ON BASE
 - MAST ARM POLE AND FOUNDATION
 - 11-FOOT PEDESTAL AND FOUNDATION
 - HANDHOLE
 - PEDESTRIAN INDICATION
 - 2-INCH CONDUIT
 - AUDIBLE PEDESTRIAN PUSH BUTTON AND SIGN
 - VIDEO DETECTION UNIT
 - SHEET SIGN (SEE SIGNING & MARKING PLAN)
 - SERVICE POINT (FOR SIGNAL & LIGHTING)
 - VIDEO DETECTION ZONE
 - LED LUMINAIRE ON 8' ARM

NOTES:

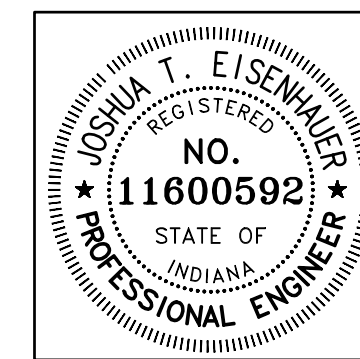
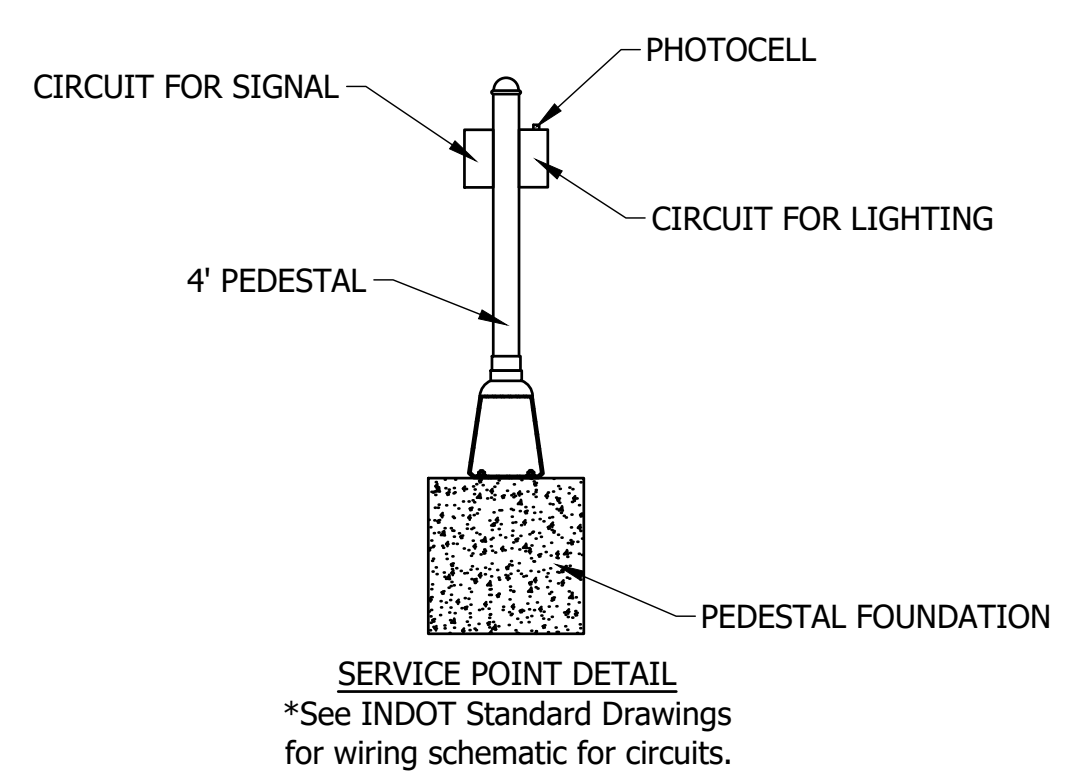
ADDITIONAL 9C/14 WIRE LABELED AS "SPARE" IS INSTALLED FOR THE POTENTIAL OF WALNUT STREET TO BE A 2-WAY ROAD IN THE FUTURE.

ONE 3C/14 WIRE IS TO BE USED FOR LIGHTING POWER.

PUSH BUTTONS TO BE WITHIN 10" REACH AND MOUNTED PERPENDICULAR TO CROSSINGS. USE OF EXTENSIONS IS ALLOWED TO ACHIEVE 10" REACH, WITH CITY APPROVAL.

PEDESTRIAN INDICATION UNITS TO BE INSTALLED SUCH THAT ACCESS FOR MAINTENANCE CAN BE ACHIEVED WITHOUT REMOVING OR REPOSITIONING THE UNIT.

FINAL LOCATION OF HANDHOLES AND CONDUIT TO BE FIELD PLACED TO AVOID UNDERGROUND UTILITY CONFLICTS.



RECOMMENDED FOR APPROVAL	<i>Joshua T. Eisenbauer</i>	6/23/2021
DESIGNED:	JTE	DRAWN:
CHECKED:	NRJ	CHECKED:

CITY OF BLOOMINGTON

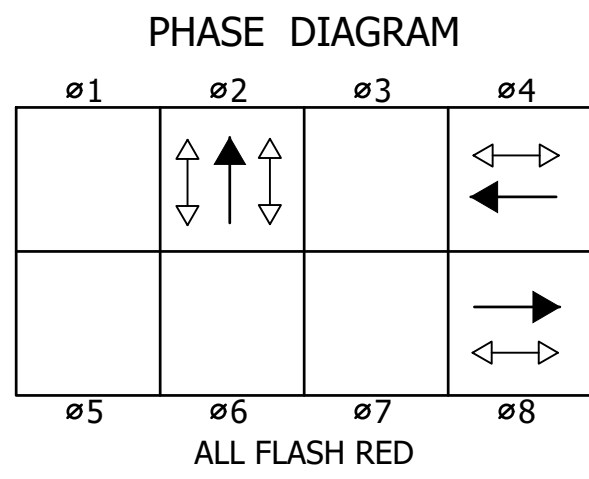
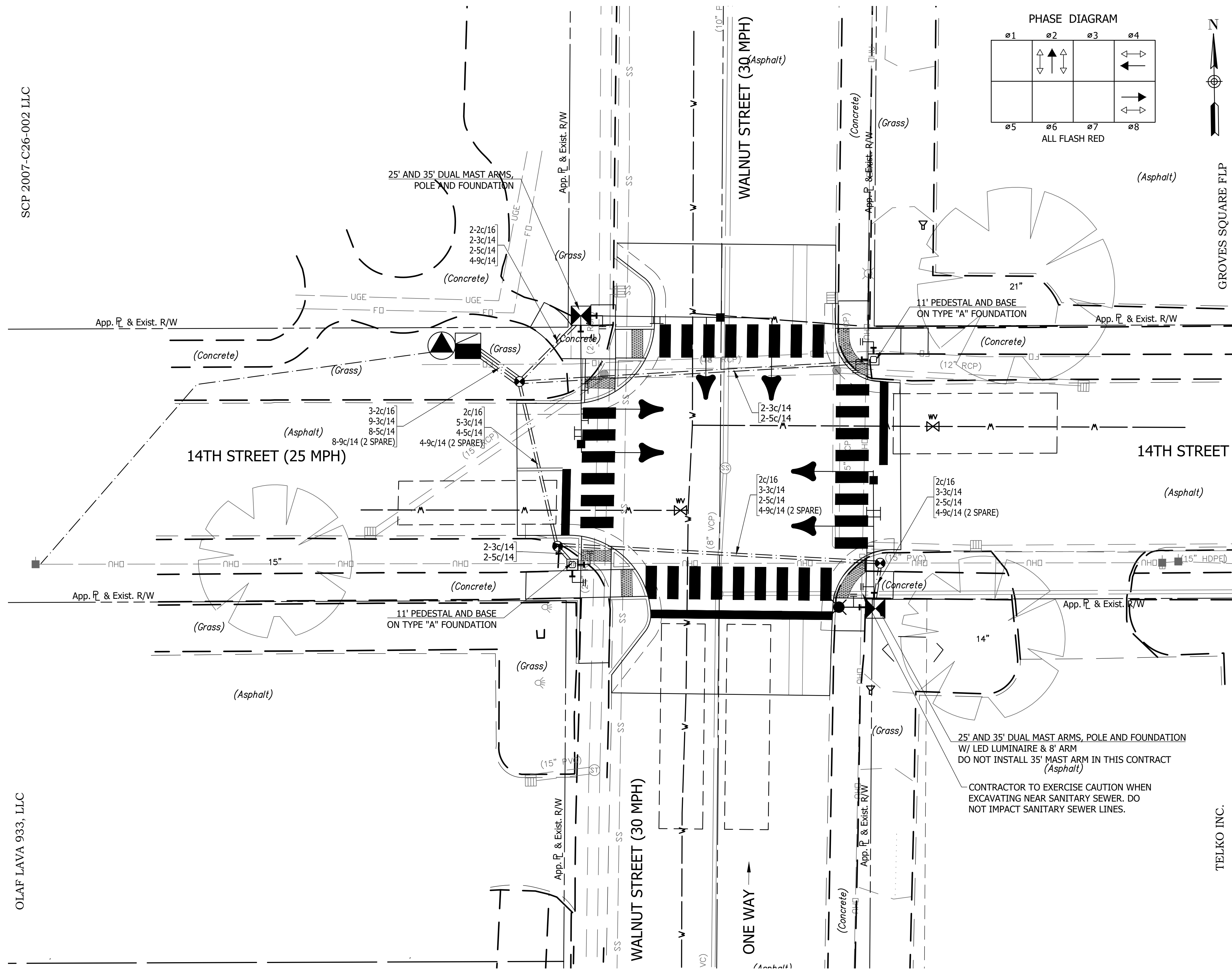
WALNUT ST. & 11TH ST.
 SIGNAL LAYOUT

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
	14 of 19
CONTRACT	PROJECT
	19-4230

DIRECTORY...F:\2019\19-4230 Bloomington signals walnut & 11th and walnut & 14th\30 sheetdrawings\70 Signal
 FILE...4230 Signal Plans.dwg
 DIMSCALE...1 LTSCALE...1
 PLOTTED BY...J.Eisenhauer
 DATE...Jul 27, 2021 - 2:55pm

SCP 2007-C26-002 LLC

OLAF LAVA 933, LLC

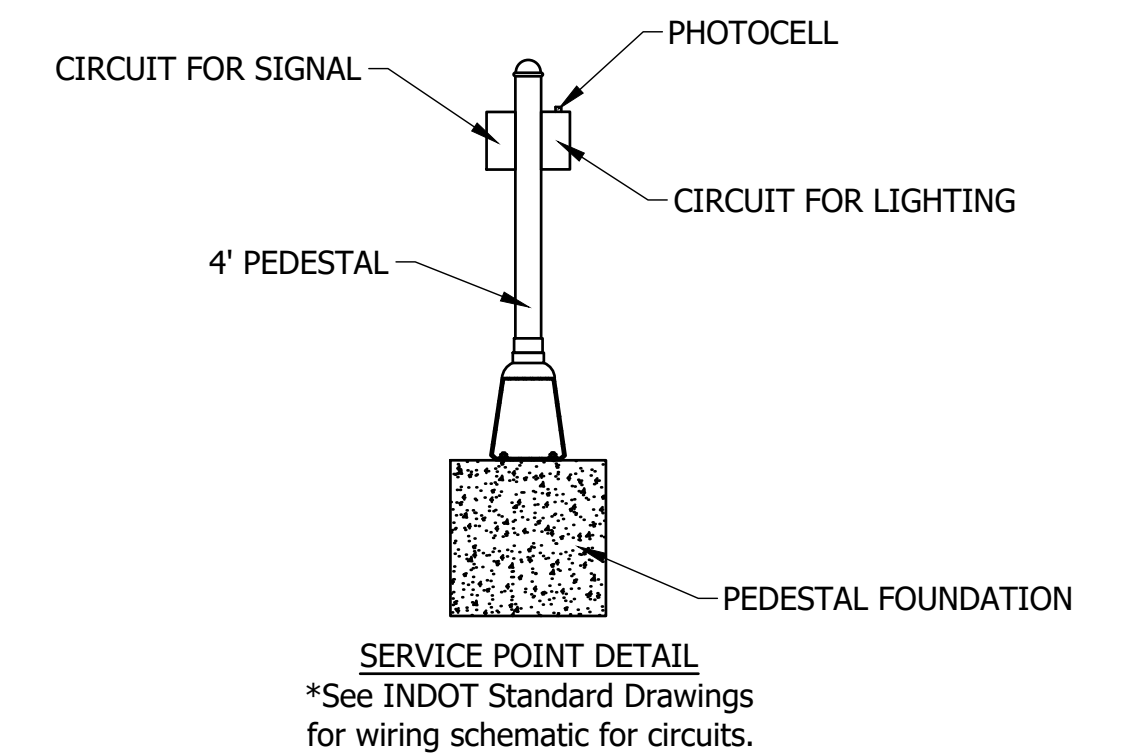


LEGEND

- 1-WAY, 3-SECTION (12-INCH RED, 12-INCH AMBER, 12-INCH GREEN) SIGNAL INDICATION
- CONTROLLER, 8-PHASE, MENU DRIVEN, IN CABINET ON BASE
- MAST ARM POLE AND FOUNDATION
- 11-FOOT PEDESTAL AND FOUNDATION
- HANDHOLE
- PEDESTRIAN INDICATION
- 2-INCH CONDUIT
- AUDIBLE PEDESTRIAN PUSH BUTTON AND SIGN
- VIDEO DETECTION UNIT
- SHEET SIGN (SEE SIGNING & MARKING PLAN)
- SERVICE POINT (FOR SIGNAL & LIGHTING)
- VIDEO DETECTION ZONE
- LED LUMINAIRE ON 8' ARM

NOTES:

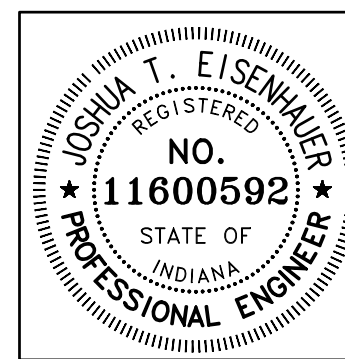
- ADDITIONAL 9C/14 WIRE LABELED AS "SPARE" IS INSTALLED FOR THE POTENTIAL OF WALNUT STREET TO BE A 2-WAY ROAD IN THE FUTURE.
- ONE 3C/14 WIRE IS TO BE USED FOR LIGHTING POWER.
- PUSH BUTTONS TO BE WITHIN 10" REACH AND MOUNTED PERPENDICULAR TO CROSSINGS. USE OF EXTENSIONS IS ALLOWED TO ACHIEVE 10" REACH, WITH CITY APPROVAL.
- PEDESTRIAN INDICATION UNITS TO BE INSTALLED SUCH THAT ACCESS FOR MAINTENANCE CAN BE ACHIEVED WITHOUT REMOVING OR REPOSITIONING THE UNIT.
- FINAL LOCATION OF HANDHOLES AND CONDUIT TO BE FIELD PLACED TO AVOID UNDERGROUND UTILITY CONFLICTS.



25' AND 35' DUAL MAST ARMS, POLE AND FOUNDATION W/ LED LUMINAIRE & 8' ARM DO NOT INSTALL 35' MAST ARM IN THIS CONTRACT (Asphalt)

CONTRACTOR TO EXERCISE CAUTION WHEN EXCAVATING NEAR SANITARY SEWER. DO NOT IMPACT SANITARY SEWER LINES.

TELKO INC.



RECOMMENDED FOR APPROVAL *Joshua T. Eisenhauer* 6/23/2021
 DESIGN ENGINEER DATE

DESIGNED: JTE DRAWN: VSENG
 CHECKED: NRJ CHECKED: JTE

CITY OF BLOOMINGTON

WALNUT ST. & 14TH ST.
 SIGNAL LAYOUT

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	N/A
SURVEY BOOK	DESIGNATION
CONTRACT	N/A
SHEETS	
15	of 19
PROJECT	
19-4230	



**TRAFFIC/BPSC COMMISSION
STAFF REPORT**

Case #: TC-22-04
Date: March 23, 2022

FROM: Neil Kopper, PE, Engineering Department

REQUEST: Crosswalk improvements at three locations

Location: 3rd Street and Grant Street; 11th Street, Diamond Street, and Blair Avenue; Patterson Drive, 3rd Street, and Isaac Drive

Description and purpose: The City of Bloomington is adding crosswalk improvements at three intersections.

The purpose of the crosswalk improvements is to improve safety for pedestrians specifically and all street users generally.

Improving street crossings for pedestrians is consistent with the Transportation Plan's mode priority stating that "pedestrians should receive the greatest priority, because they are the most vulnerable and the most space-efficient road user." Pedestrian improvements are consistent with multiple Comprehensive Plan goals, such as Goal 6.3 Improve the Bicycle and Pedestrian Network: Maintain, improve, and expand an accessible, safe, and efficient network for pedestrians, and attain platinum status as a Bicycle Friendly Community, as rated by the League of American Bicyclists."

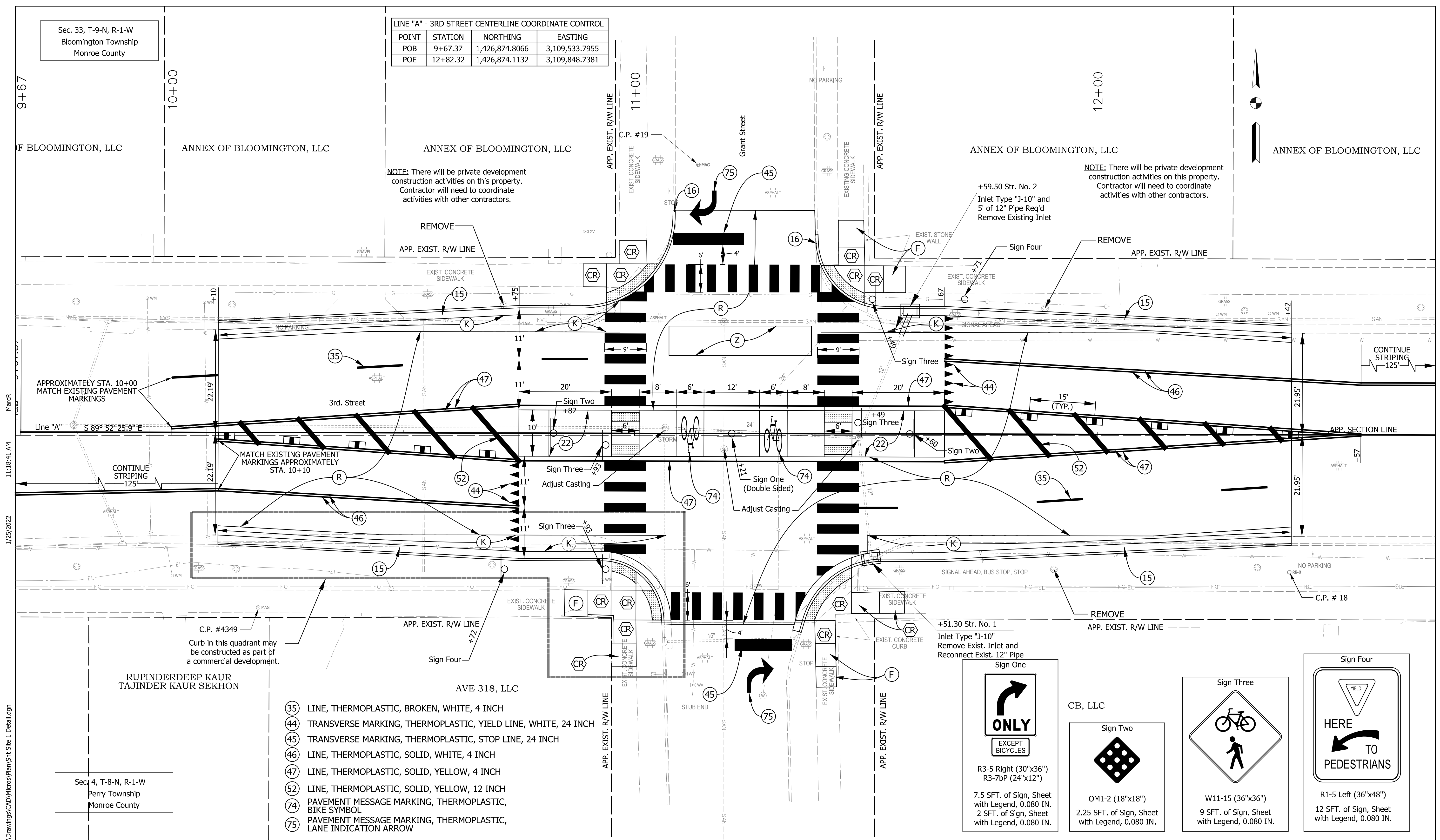
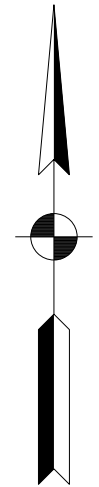
Title 15 Changes: Currently there is a section of Title 15, "15.20.010 Restricted turn intersections" with Schedule G. The purpose appears to be to list intersections where there are turn restrictions, distinct from the sections "restricted turns on red at signalized intersections." However, schedule G is blank. Staff recommends removing this second from code. If a turn is restricted at an intersection, the restriction is posted or the turn is not possible due to physical objects (medians, curbs, off-set, etc.).

Recommendation:

Staff recommends that the Commission forward the Title 15 changes to Council with a positive recommendation.

Sec. 33, T-9-N, R-1-W
Bloomington Township
Monroe County

POINT	STATION	NORTHING	EASTING
POB	9+67.37	1,426,874.8066	3,109,533.7955
POE	12+82.32	1,426,874.1132	3,109,848.7381



NOTE: There will be private development construction activities on this property. Contractor will need to coordinate activities with other contractors.

NOTE: There will be private development construction activities on this property. Contractor will need to coordinate activities with other contractors.

C.P. #4349
Curb in this quadrant may be constructed as part of a commercial development.

- (35) LINE, THERMOPLASTIC, BROKEN, WHITE, 4 INCH
- (44) TRANSVERSE MARKING, THERMOPLASTIC, YIELD LINE, WHITE, 24 INCH
- (45) TRANSVERSE MARKING, THERMOPLASTIC, STOP LINE, 24 INCH
- (46) LINE, THERMOPLASTIC, SOLID, WHITE, 4 INCH
- (47) LINE, THERMOPLASTIC, SOLID, YELLOW, 4 INCH
- (52) LINE, THERMOPLASTIC, SOLID, YELLOW, 12 INCH
- (74) PAVEMENT MESSAGE MARKING, THERMOPLASTIC, BIKE SYMBOL
- (75) PAVEMENT MESSAGE MARKING, THERMOPLASTIC, LANE INDICATION ARROW
- (K) FULL DEPTH HMA WIDENING: 275 #/SY HMA INTERMEDIATE, TYPE B on 880 #/SY HMA BASE, TYPE B
- (R) HMA RESURFACE: 1-1/2" SURFACE MILLING 165#/SY QC/Q-HMA, 3, 64, SURFACE
- (Z) HMA PATCHING, TYPE B (SAME LAYERS AS "K")
- (15) MODIFIED COMBINED CONCRETE CURB AND GUTTER (VERTICAL)
- (16) CONCRETE CURB (VERTICAL)
- (22) CONCRETE CENTER CURB, TYPE C
- (■) RAISED PAVEMENT MARKER (SNOWPLOWABLE)

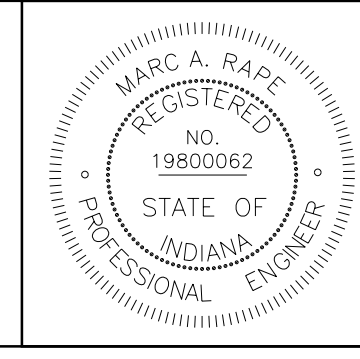
7.5 SFT. of Sign, Sheet with Legend, 0.080 IN.
2 SFT. of Sign, Sheet with Legend, 0.080 IN.

2.25 SFT. of Sign, Sheet with Legend, 0.080 IN.

9 SFT. of Sign, Sheet with Legend, 0.080 IN.

12 SFT. of Sign, Sheet with Legend, 0.080 IN.

LEGEND	
	DETECTABLE WARNING SURFACE
	CR CURB RAMP, CONCRETE
	F CONCRETE SIDEWALK
	C 6 IN. PCCP FOR DRIVEWAYS



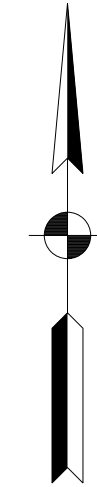
RECOMMENDED FOR APPROVAL	<i>Marc A. Rape</i>	9/27/2021
DESIGNED:	SWW	DRAWN:
CHECKED:	MAR	CHECKED:

INDIANA
DEPARTMENT OF TRANSPORTATION

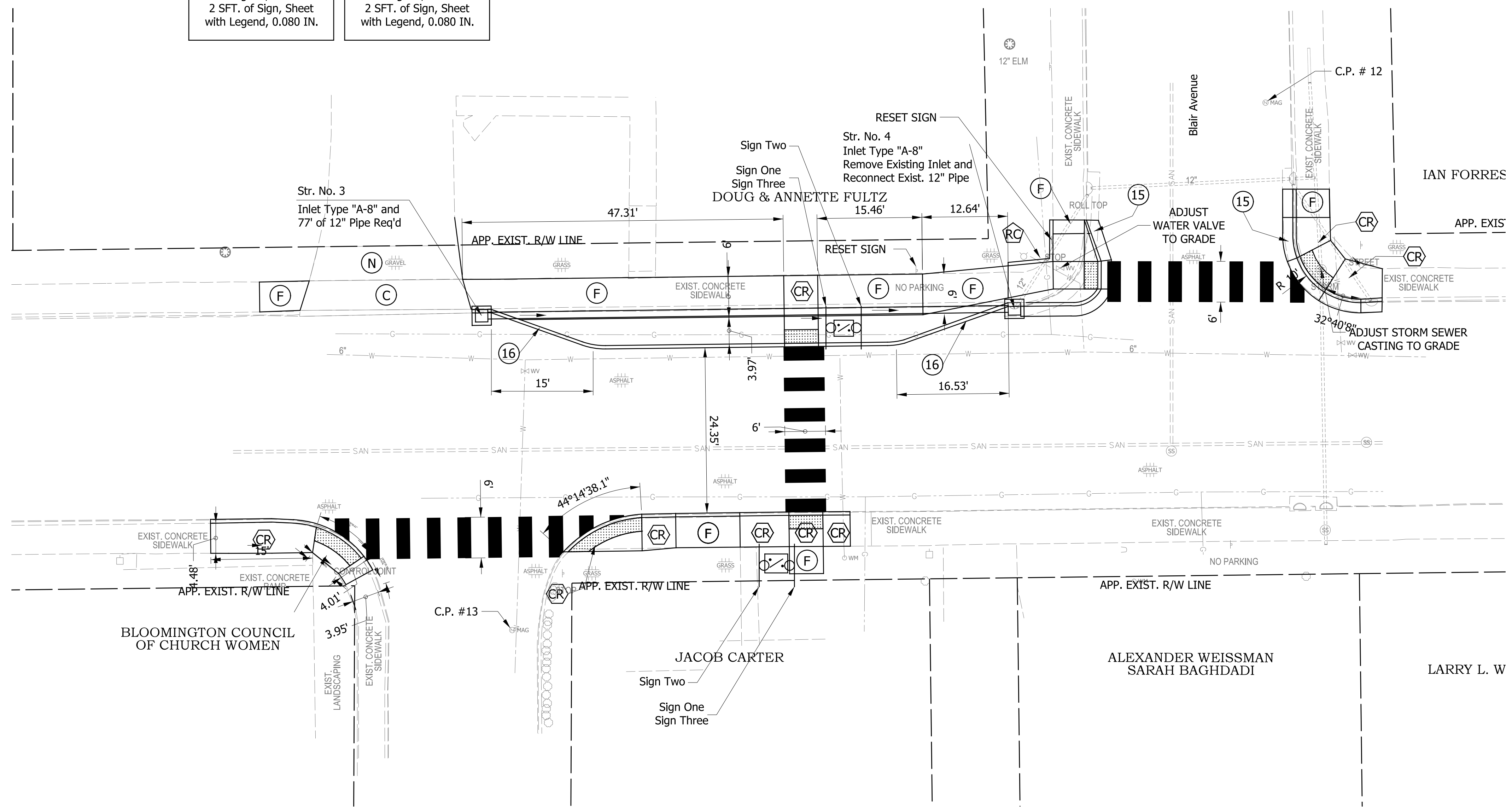
SITE 1
3rd STREET & GRANT STREET

HORIZONTAL SCALE	BRIDGE FILE NO.
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION NO.
N/A	1700976
SURVEY BOOK NO.	SHEETS
ELECTRONIC	5 of 15
CONTRACT NO.	PROJECT NO.
R-40337	1700976

S:\COL\4600-4699\4699\002\Drawings\CAD\Micros\Plan\Site 1 - Detail.dgn 1/25/2022 11:18:41 AM



<p>Sign One</p> <p>9 SFT. of Sign, Sheet with Legend, 0.080 IN. 2 SFT. of Sign, Sheet with Legend, 0.080 IN.</p>	<p>Sign Two</p> <p>W11-2 (36"x36") W16-7P Left (24"x12")</p> <p>9 SFT. of Sign, Sheet with Legend, 0.080 IN. 2 SFT. of Sign, Sheet with Legend, 0.080 IN.</p>	<p>Sign Three</p> <p>R10-25 (9"x12")</p> <p>0.75 SFT. of Sign, Sheet with Legend, 0.080 IN.</p>
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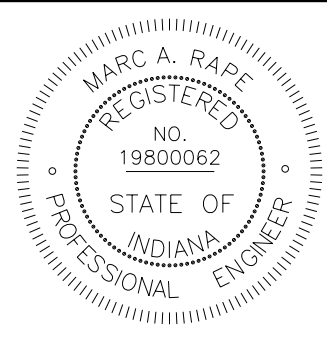


1/25/2022 11:01:57 AM MarcR

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- DETECTABLE WARNING SURFACE
- CURB RAMP, CONCRETE
- F
- 6 IN. PCCP FOR DRIVEWAYS
- MODIFIED COMBINED CONCRETE CURB AND GUTTER (VERTICAL)
- CONCRETE CURB (VERTICAL)
- COMPACTED AGGREGATE, NO. 53 (6 INCH DEPTH)

- RETURN CURB
- RECTANGULAR RAPID FLASH BEACON (DOUBLE SIDED)



RECOMMENDED FOR APPROVAL *Marc A. Rape* 9/27/2021
DESIGN ENGINEER DATE

DESIGNED: SWW DRAWN: SWW
CHECKED: MAR CHECKED: MAR

INDIANA
DEPARTMENT OF TRANSPORTATION

SITE 2 CROSSING
11th ST. & DIAMOND ST. / BLAIR AVE.

HORIZONTAL SCALE	BRIDGE FILE NO.
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION NO.
NA	1700976
SURVEY BOOK NO.	SHEETS
ELECTRONIC	7 of 15
CONTRACT NO.	PROJECT NO.
R-40337	1700976

North side
South side

W11-2 (36"x36")
W16-7P Left (24"x12")

9 SFT. of Sign, Sheet with Legend, 0.080 IN.
2 SFT. of Sign, Sheet with Legend, 0.080 IN.

W11-2 (36"x36")
W16-7P Right (24"x12")

9 SFT. of Sign, Sheet with Legend, 0.080 IN.
2 SFT. of Sign, Sheet with Legend, 0.080 IN.

North side
South side

W11-2 (36"x36")
W16-7P Right (24"x12")

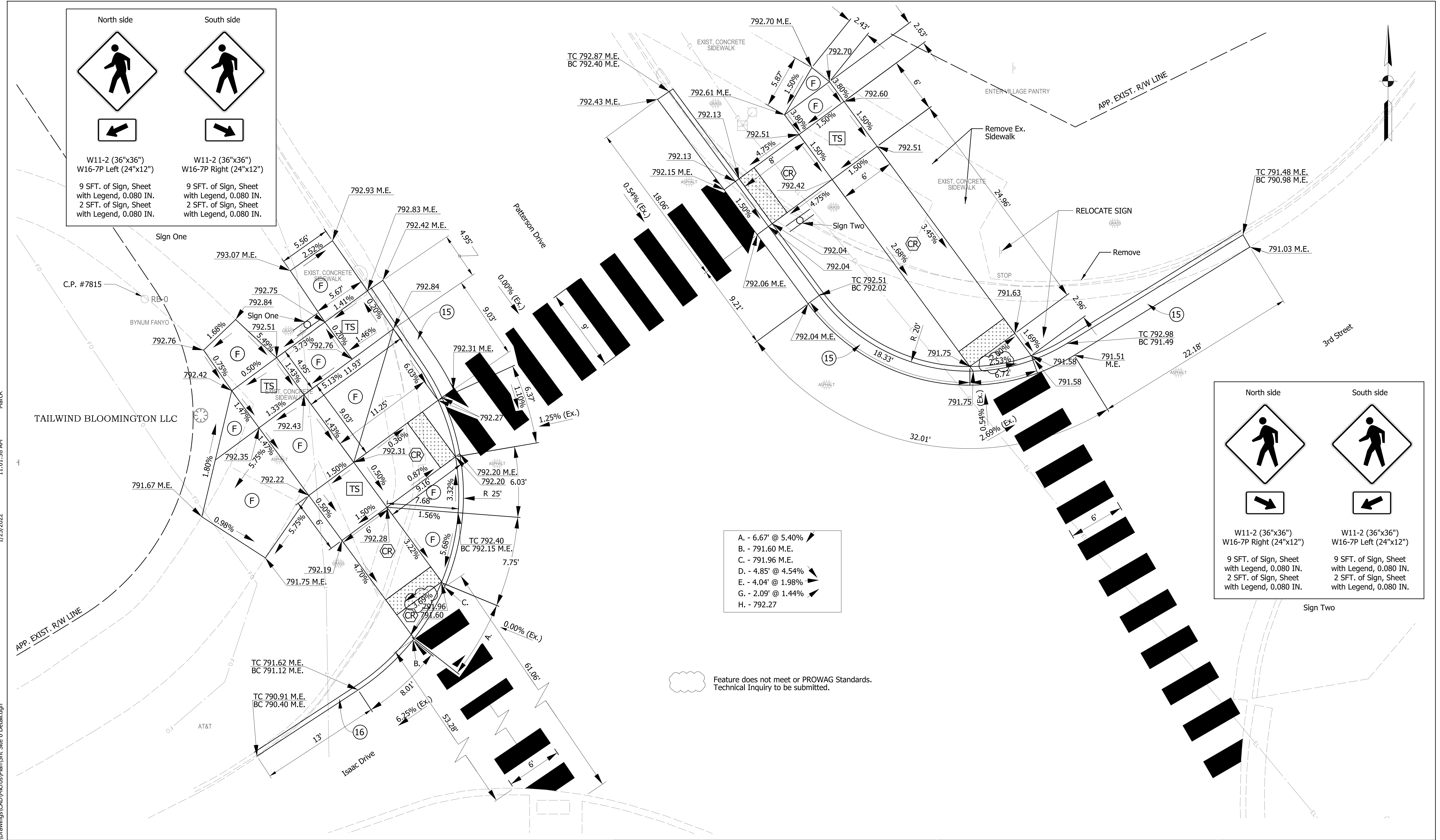
9 SFT. of Sign, Sheet with Legend, 0.080 IN.
2 SFT. of Sign, Sheet with Legend, 0.080 IN.

W11-2 (36"x36")
W16-7P Left (24"x12")

9 SFT. of Sign, Sheet with Legend, 0.080 IN.
2 SFT. of Sign, Sheet with Legend, 0.080 IN.

- A. - 6.67' @ 5.40%
- B. - 791.60 M.E.
- C. - 791.96 M.E.
- D. - 4.85' @ 4.54%
- E. - 4.04' @ 1.98%
- G. - 2.09' @ 1.44%
- H. - 792.27

Feature does not meet or PROWAG Standards.
Technical Inquiry to be submitted.



11:01:58 AM

1/25/2022

S:\COL\4600-4699\4607\002\Drawings\CAD\Micros\Plan\Site 6 Detail.dgn

LEGEND	
	DETECTABLE WARNING SURFACE
	CONCRETE SIDEWALK
	TURNING SPACE
	MODIFIED COMBINED CONCRETE CURB AND GUTTER (VERTICAL)
	CONCRETE CURB VERTICAL



RECOMMENDED FOR APPROVAL	<i>Marc A. Rape</i>	9/27/2021	DATE
DESIGNED:	SWW	DRAWN:	SWW
CHECKED:	MAR	CHECKED:	MAR

INDIANA DEPARTMENT OF TRANSPORTATION

SITE 6 CROSSING
ISAAC DRIVE & PATTERSON DRIVE

HORIZONTAL SCALE	BRIDGE FILE NO.
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION NO.
NA	1700976
SURVEY BOOK NO.	SHEETS
ELECTRONIC	9 of 15
CONTRACT NO.	PROJECT NO.
R-40337	1700976



**TRAFFIC/BPSC COMMISSION
STAFF REPORT**

Case #: TC-22-05
Date: March 23, 2022

FROM: Neil Kopper, PE, Engineering Department

REQUEST: Adding traffic signal at Tapp Road and Deborah Drive

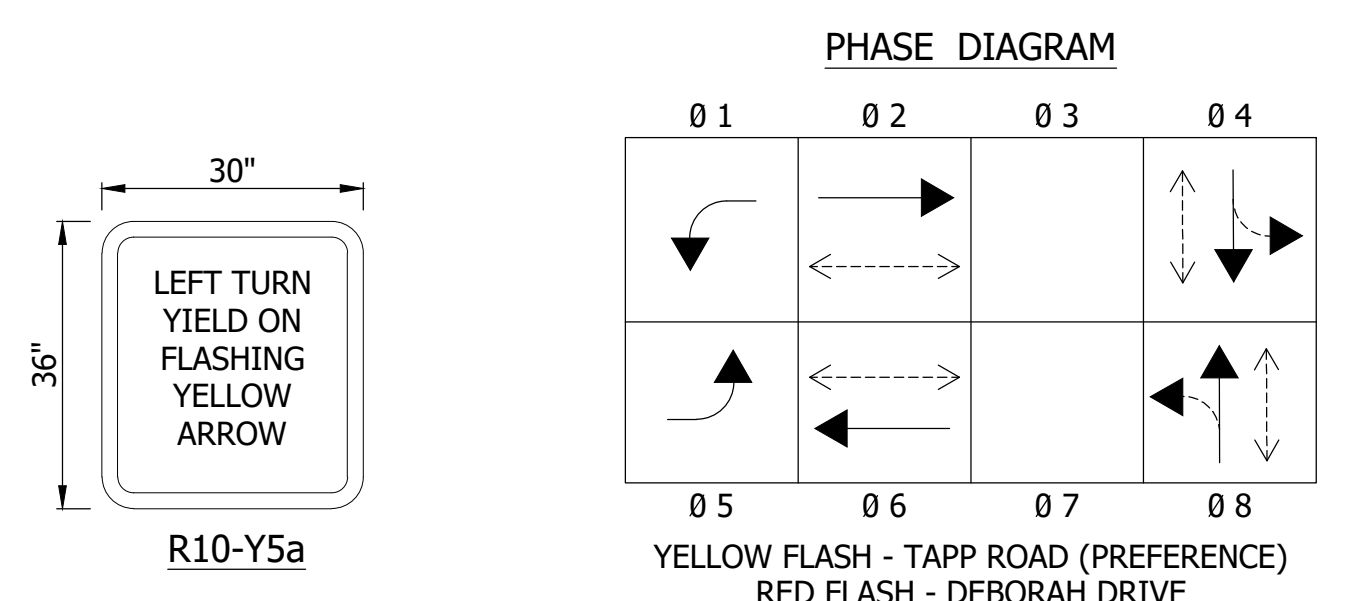
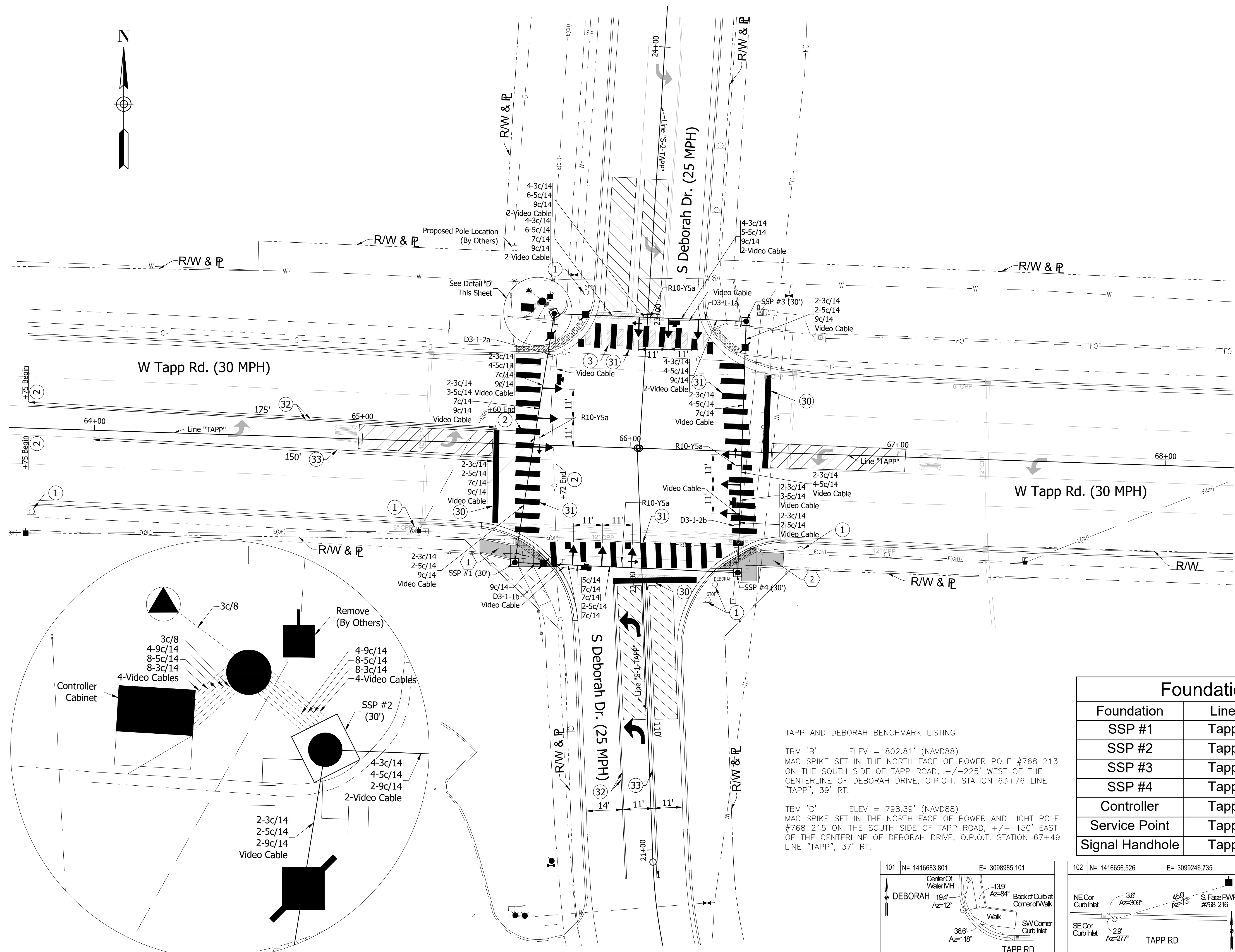
Location: Tapp Road and Deborah Drive

Description and purpose: The City of Bloomington will be adding a traffic signal at the Tapp Road and Deborah Drive intersection. This is in connection with an Indiana Department of Transportation (INDOT) project.

Title 15 Changes: A Title 15 amendment will be proposed to Council to add the intersections to the list of signalized intersections.

Recommendation:

Staff recommends that the Commission forward the Title 15 changes to Council with a positive recommendation.



See City of Bloomington Standard Drawing SS-1, Street Name Sign Details

- LEGEND**
- ① Sign, Remove
 - ② Line, Remove
 - ③ Transverse Marking, Remove
 - ③① Transverse Marking, Thermoplastic, Stop Line, White, 24 in.
 - ③② Transverse Marking, Thermoplastic, Crosswalk Line, 24 in. See Detail, Sheet 9
 - ③③ Line, Thermoplastic, Solid, Yellow, 4 in.
 - ③④ Line, Thermoplastic, Solid, White, 4 in.
 - ⊕ Curb Ramp No. __, Concrete, Sheet No. 9
 - Span, Catenary, and Tether
 - 2" Galvanized Steel Conduit
 - Silt Fence
 - Signal Handhole, Type 1
 - ⊠ Steel Strain Pole (30')
 - ▲ Signal Service Point, H-Frame Structure Mounted See Duke Energy 'Gold Book' Figure 117
 - Disconnect Hanger
 - ⊕ 18" LED Pedestrian Signal Indication with Countdown Timer and APS Push Button (Speech Walk Message) and R10-3e Sign
 - 1-Way, 3-Section (12" Red LED, 12" Yellow LED, 12" Green LED) Signal Indication With Backplate
 - ↔ 1-Way, 4-Section (12" Red LED, 12" Yellow Arrow LED, 12" Flashing Yellow Arrow LED, 12" Green Arrow LED) Signal Indication With Backplate
 - ⊕ 8-Phase Fully Actuated Econolite Cobalt TS-2 Type 1 Controller, Applied Information unit 500-085-02, and Cabinet on 'P' Foundation
 - ⊕ Video Detection Camera With 25' Mast Arm (Autoscope RackVision Terra)
 - ▨ Video Detection Zone
 - ⊕ Curb Ramp, Concrete
 - ↔ Proposed Message Marking, Thermoplastic, Lane Indication Arrow

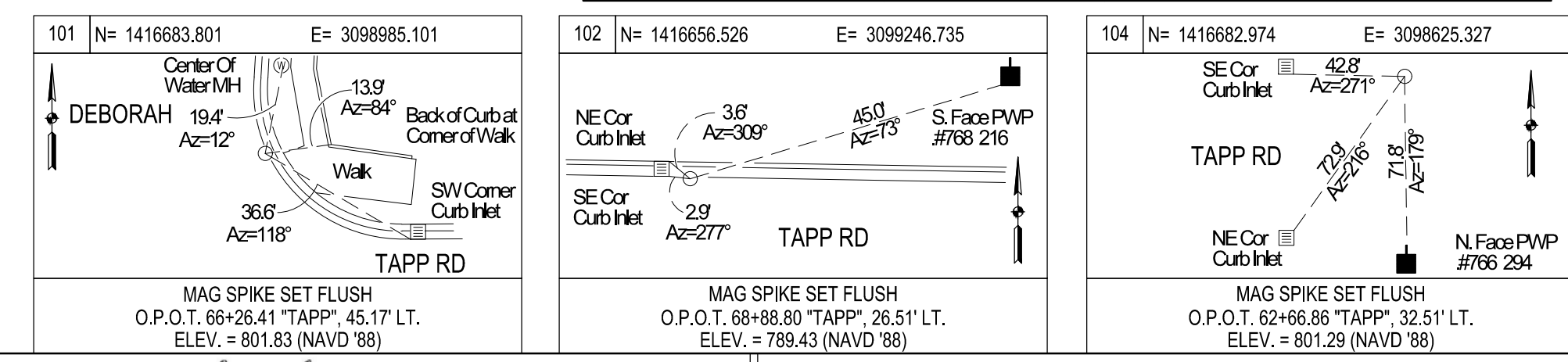
Foundation Schedule

Foundation	Line	Station	Offset
SSP #1	Tapp	65+58	44.1' Rt.
SSP #2	Tapp	65+70	49.7' Lt.
SSP #3	Tapp	66+42	48.6' Lt.
SSP #4	Tapp	66+42	45.2' Rt.
Controller	Tapp	65+60	47.8' Lt.
Service Point	Tapp	65+60	57.4' Lt.
Signal Handhole	Tapp	65+65	53.6' Lt.

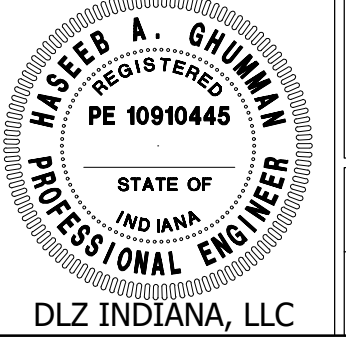
TAPP AND DEBORAH BENCHMARK LISTING

TBM 'B' ELEV = 802.81' (NAVD88)
 MAG SPIKE SET IN THE NORTH FACE OF POWER POLE #768 213 ON THE SOUTH SIDE OF TAPP ROAD, +/- 225' WEST OF THE CENTERLINE OF DEBORAH DRIVE, O.P.O.T. STATION 63+76 LINE "TAPP", 39' RT.

TBM 'C' ELEV = 798.39' (NAVD88)
 MAG SPIKE SET IN THE NORTH FACE OF POWER AND LIGHT POLE #768 215 ON THE SOUTH SIDE OF TAPP ROAD, +/- 150' EAST OF THE CENTERLINE OF DEBORAH DRIVE, O.P.O.T. STATION 67+49 LINE "TAPP", 37' RT.



- Detail 'D' (Not to Scale)**
- NOTES:**
- All Signal Heads Shall Be Black With Black Backplates And Yellow Retroreflective Strips.
 - Video Cables Shall Be Installed Per Manufactures Recommendations.
 - Video Cables Denote A Coaxial Cable And A 3c/14 Cable for Video Detection Camera.
 - Add 6 in. Pushbutton Assembly Extensions At Each Location, As Directed By The Engineer.



RECOMMENDED FOR APPROVAL: *Haseb Ghuman* DESIGN ENGINEER DATE: 05/14/2024

DESIGNED: TAB DRAWN: TAB

CHECKED: HAG CHECKED: JRS

INDIANA DEPARTMENT OF TRANSPORTATION

SIGNAL PLAN
 TAPP ROAD AND DEBORAH DRIVE

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	---
VERTICAL SCALE	DESIGNATION
---	---
SURVEY BOOK	SHEETS
---	8 of 9
CONTRACT	PROJECT
---	---

Date: May 14, 2021, 2:11pm
 File: X:\Projects\GFI\2017\1763\108270\INDOT L-69 Sec. 5\Tapp & Deborah\Civil\DWG\10825610.dwg Model Tab: 10825610 - Signal Plan