

## CATEGORICAL EXCLUSION LEVEL 1 FORM

### GENERAL PROJECT INFORMATION

<b>Road No./County:</b>	Kennedy Avenue (Ave.)/Lake County
<b>Designation Number(s):</b>	1901902
<b>Project Description/Termini:</b>	Roadway Project/ From south approach of 164th Place (PI) to north exit ramp for United States Highway (US) 20/Michigan Street (St.)

CE Level 1 documentation for exempted projects

Additional Information to CE Level 1

**Approval:**

\_\_\_\_\_  
INDOT DE/ESD Signature and Date

**Release for Public Involvement:**

*LCF* 7/27/2022

\_\_\_\_\_  
INDOT DE/ESD Initials and Date

**Certification of Public involvement:**

\_\_\_\_\_  
INDOT Consultant Services Signature and Date

**INDOT DE/ESD Reviewer:**

\_\_\_\_\_  
Signature and Date

**CE Preparer:**

\_\_\_\_\_  
Harlan Ford/RQAW  
Name and Organization



**Indiana Department of Transportation**

County Lake Route Kennedy Avenue Des. No. 1901902

	<p>zero width near the bridge approaches where an approximate 8 ft. wide clear shoulder is provided across the bridge. The posted speed limit northbound and southbound is 35 miles per hour (mph) and based on current traffic data it indicates that this roadway is limited to small size local delivery trucks including trash trucks, fire engines, etc.</p> <p><b>Preferred Alternative:</b></p> <p>The preferred alternative for this project proposes to change the current lane configuration from two lanes in each direction to one lane in each direction (road diet) with a Two-Way Left Turn Lane (TWLTL) between the travel lanes. The TWLTL will transition to left turn only lanes at the intersections. This project also proposes to reconfigure the traffic signals at the Cleveland St. and Kennedy Ave. intersection to accommodate the new lane configuration. This is the only intersection within the project area that is signalized. No new signals will be added, but the existing signals will be reduced to match the proposed lane reduction. In addition, to reduce the distance and time it takes pedestrians to cross Kennedy Ave., bump outs will be provided at the signalized intersection located at Cleveland Street. The bump outs will create a calming effect by reducing the width of the pavement that typically causes motorists to slow down and be more cautious. The proposed typical cross section from 164th Place to 161st Street will generally be one 11 ft. wide travel lane in each direction with an 11 ft. wide TWLTL or designated left turn lane between the travel lanes. Lane widths may vary from 11 ft. to 12 ft. A 5 ft. wide bicycle lane is proposed to be placed at the outside edge of the travel lanes with a 6.5 ft. wide parking lane between the bicycle lane and the curb. The total width of this typical section is 59 ft. from face of curb to face of curb and generally matches the existing distance between the curbs.</p> <p>From 161st Street north to the end of the project the proposed typical cross section will generally consist of one 12 ft. wide travel lane in each direction, followed by a 2 ft. wide bicycle lane buffer with 5-10 ft. wide bicycle lanes to be placed at the outside edges of the roadway. The treatment beyond the edge of the bicycle lanes will consist of installing new curb and gutter and tie into the existing gravel shoulder on the southbound lane. For the northbound lane, it is proposed to place barrier curb and gutter with 6 ft. wide sidewalk behind the curb. There are no adjacent drives or streets north of 161st Street, so a TWLTL is not needed along this section of roadway. In addition, the proposed typical section across the County Bridge (NBI: 4500185) will consist of one 12 ft. wide travel lane in each direction with a 2 ft. wide buffer between the travel lanes and the bike lanes. The bike lane along the southbound lane will vary in width from 8.9 to 9.8 ft. with a 8 ft. wide bridge shoulder bounded by existing concrete barrier. The bike lane along the northbound lane will be 5 ft. wide followed by an additional 2 ft. wide bike lane buffer and 6 ft. wide walkway. Please refer to Appendix B, pages B42 to B44 for typical cross sections of proposed improvements.</p> <p>The proposed pavement treatment will consist of milling the existing pavement down 4 to 8 inches and resurfacing/recycling 4 to 8 inches with some areas needing patching or full depth reconstruction with Hot Mixed Asphalt (HMA) from the south approach of 164th Place north to 161st Street on Kennedy Ave.</p>
--	---

**Indiana Department of Transportation**

County Lake Route Kennedy Avenue Des. No. 1901902

	<p>The pavement will be reconstructed from 161st Street to the south end of the County Bridge and from the north end of the County Bridge to the north exit ramp for US 20/Michigan St. Curb ramps at all roadway intersections that do not currently meet Americans with Disabilities Act (ADA) standards will be replaced or modified to meet current ADA standards. In addition, sidewalk and driveway approaches will be repaired or replaced as necessary. Minimal work is anticipated for the sewer system due to the proposed scope of work. Reconstructing around manholes or drainage inlets that are disturbed during the road work will occur and structure castings may need replaced, adjusted, or added to accommodate any minor changes in the grade or planned bioretention system treatments. As a secondary desired outcome, this project proposes to place three bioretention systems to help improve stormwater quality within the project area. These bioretention systems will be placed within the existing right-of-way and consists of two infiltration trenches and one raingarden. Additionally, pavement markings and signs would be reconfigured to tie in the lane reductions. Signage indicating the bike lane ends (share roadway) will be installed at the northern end of the project to alert bicyclist and motorist alike that the dedicated bike lane ends. Please refer to the project plans located in Appendix B, pages B41 to B63.</p> <p>The Maintenance of Traffic (MOT) plan for this project will consist of phased construction by completing work on one half of the roadway at a time. Please refer to the <i>MOT During Construction</i> section of this document for more details.</p> <p>This project meets the purpose and need by improving the overall pavement condition, enhancing parking along Kennedy Ave., and by providing bicycle facilities to improve connectivity for residents within the community and to support future regional development plans.</p> <p><b><u>Logical Termini/Independent Utility:</u></b></p> <p>The termini for this project is logical as it begins at the south approach of 164th Place where there is an active roadway project currently under construction, that will tie into this project. This project to the south is 100% locally funded and will provide on-street bicycle facilities up to the south approach of 164th Place. This project (Des No. 1901902) will end at the north exit ramp to US 20/Michigan St., which is a major crossroads intersection. In addition, at the north end of the project there are future plans to construct the Hammond Path (Kennedy to Cline; Des No. 1901900) as shown in Appendix I, page I2. The Hammond Path (Kennedy to Cline; Des No. 1901900) is listed in the draft 2022-2026 Northwestern Indiana Regional Planning Commission (NIRPC) Transportation Improvement Program (TIP). The Hammond Path (Des No. 1901900) is anticipated to be constructed in 2025 (after this project) and is part of the Marquette Greenway Trail Plan, which is a 3 State (Illinois, Indiana, Michigan) initiative to provide one continuous trail, approximately 50 miles in length, along Lake Michigan's lake front. One key goal of the Marquette Greenway Trail Program is to create healthier communities by connecting people to places and to promote physical activity. Please refer to the NIRPC website at: <a href="https://nirpc.org/2040-plan/mobility/greenways-blueways/planning-initiatives/marquette-greenway-poster-plan/">https://nirpc.org/2040-plan/mobility/greenways-blueways/planning-initiatives/marquette-greenway-poster-plan/</a> for more information on the Marquette Greenway and current planning initiatives. It is important to note,</p>
--	--



**Indiana Department of Transportation**

County Lake Route Kennedy Avenue Des. No. 1901902

	<p>that this project (Des No. 1901902) is not part of the Marquette Greenway Trail Plan; however, it would result in a net benefit as the bicycle facilities would provide additional access for residents within the community to the proposed Hammond Path (Des No. 1901900), if constructed. Regardless of whether or not the Hammond Path (Des No. 1901900) project is constructed, this project (Des No. 1901902) demonstrates independent utility as it can function as a stand-alone project without any additional transportation improvements being made and will not restrict the alternatives of any reasonably foreseeable transportation improvement projects. This is because at the north end where this project terminates, bicyclist and motorist will share the roadway.</p>		
<p><b>Other Alternatives Considered:</b></p>	<p><b>No Build:</b> This alternative would not result in any improvements to the existing roadway. In addition, this alternative would not result in any expenditure of capital funds or any environmental impacts. If no improvements are made to the existing roadway, it would continue to deteriorate and it would fail to improve connectivity and provide alternate means of transportation for residents within the community. This alternative was not considered any further as it would not address the purpose and need of the project.</p>		
<p><b>Funding Source(s):</b></p>	<input checked="" type="checkbox"/> Federal	<input type="checkbox"/> State	<input checked="" type="checkbox"/> Local <input type="checkbox"/> Other
<p><b>Project Sponsor:</b></p>	<p>City of Hammond</p>		
<p><b>Estimated Cost:</b></p>	<p>\$4,630,000</p>	<p><b>Project Length:</b></p>	<p>0.94 mile</p>
<p><b>Public Involvement:</b></p>	<p><b>No:</b></p>	<p><b>Yes: X</b></p>	
<p><b>Notice of Entry Letters:</b> Notice of Entry letters were not mailed to property owners as all work will occur within existing right-of-way (ROW).</p> <p><b>Public Involvement Plan (PIP):</b> The Public Involvement Plan was sent to the INDOT Project Manager on November 18, 2021. The INDOT Project Manager concurred with the Public Involvement Plan on November 18, 2021 (Appendix G, pages G1 and G2).</p> <p><b>Public Involvement Requirements:</b> The project will meet the minimum requirements described in the current Indiana Department of Transportation (INDOT) Project Development Public Involvement Procedures Manual which requires the project sponsor to offer the public an opportunity to submit comments and/or request a public hearing. Therefore, a legal notice will appear in a local publication contingent upon the release of this document for public involvement. This document will be revised after the public involvement requirements are fulfilled.</p>			
<p><b>Right-of-Way:</b></p>	<p><b>No: X</b></p>	<p><b>Yes:</b></p>	
<p>The existing right-of-way (ROW) width varies throughout the project area but currently consists of sidewalks, curb and gutter, and roadside ditches. Generally, the existing ROW width extends to the back of sidewalk from 164th Place north to 161st Street. The existing ROW width generally extends 30-45 ft. from the roadway centerline from 161st Street north to the end of the project.</p>			

**Indiana Department of Transportation**

County   Lake   Route   Kennedy Avenue   Des. No.   1901902  

This project will occur within existing right-of-way (ROW). No permanent or temporary ROW will be required for this project.

If the scope of work or permanent or temporary right-of-way amounts change, the INDOT Environmental Services Division (ESD) and the INDOT District Environmental Section will be contacted immediately.

<b>Maintenance of Traffic (MOT) During Construction:</b>	<b>No:</b>	<b>Yes: X</b>
--	------------	---------------

The Maintenance of Traffic (MOT) plan for this project will consist of phased construction by completing work on one half of the roadway at a time. This will be done by reducing traffic from two lanes to one lane in each direction and shifted to one side of the existing roadway while the opposite side is completed. When one side is complete then traffic will be shifted to the newly completed portion while the remaining half is completed. Please refer to Appendix B, page B45 for a project plan sheet detailing the MOT.

The closures/lane restrictions will pose a temporary inconvenience to traveling motorists (including school buses and emergency services); however, no significant delays are anticipated, and all inconveniences and delays will cease upon project completion.

<b>Bridge(s) and/or Small Structure(s) (include structure number(s)):</b>	<b>No:</b>	<b>Yes: X</b>
---	------------	---------------

No small structures are located within the project area. However, please note that there is a County Bridge (NBI: 4500185) located approximately 850 feet north of 161<sup>st</sup> Street over the CSX railroad tracks. There will be no structural work occurring on this bridge; however, as shown on the plan sheets in Appendix B, pages B61 and B62, pavement markings will be installed across the wearing surface of the bridge deck to facilitate and clearly demarcate the bicycle lane.

In addition, Bridge No. (020-45-02484 B/ NBI: 005200) located on US 20/Michigan St. is located at the north end of the project area. This bridge carries US 20/Michigan St. over Kennedy Avenue. Although it is located within the project area, there will be no impacts to this bridge as a result of this project. This bridge is scheduled to be replaced as a separate project under Des No. 1900009 in Contract B-42440 and is anticipated to let in the Summer of 2023 (Appendix I, page I2).

**IDENTIFICATION AND EVALUATION OF IMPACTS**

**Early Coordination:**

Early Coordination Letters were sent out on October 18, 2021 (Appendix C, pages C1 to C3).

Agency	Date Sent	Date Response Received	Appendix
INDOT, LaPorte District	October 18, 2021	November 3, 2021	C19
INDOT, Project Manager	October 18, 2021	No Response Received	-
Federal Highway Administration (FHWA)	October 18, 2021	No Response Received	-
Indiana Geological and Water Survey (IGWS)	October 18, 2021	October 18, 2021	C10
Indiana Department of Natural Resources- Division of Fish and Wildlife (IDNR-DFW)	October 18, 2021	November 17, 2021	C20
Indiana Department of Environmental Management (IDEM)	October 18, 2021	October 18, 2021	C4
IDEM, Groundwater Section	October 18, 2021	October 20, 2021	C13
U.S. Army Corps of Engineers (USACE)	October 18, 2021	No Response Received	-
INDOT, Office of Aviation	October 18, 2021	October 19, 2021	C18
Local Floodplain Administrator	October 18, 2021	No Response Received	-
Municipal Separate Storm Sewer System (MS4) Coordinator	October 18, 2021	No Response Received	-

**Indiana Department of Transportation**

County Lake Route Kennedy Avenue Des. No. 1901902

Northwestern Indiana Regional Planning Commission (NIRPC)	October 18, 2021	No Response Received	-
U.S. Department of Housing and Urban Development (USHUD)	October 18, 2021	No Response Received	-
National Park Service (NPS)	October 18, 2021	No Response Received	-
City of Hammond ADA Coordinator	October 18, 2021	No Response Received	-
Hammond Engineering Department	October 18, 2021	No Response Received	-
Hammond Mayor's Office	October 18, 2021	No Response Received	-
Hammond City Council	October 18, 2021	No Response Received	-
Lake County Highway Department	October 18, 2021	No Response Received	-
Lake County Council	October 18, 2021	No Response Received	-
Lake County Surveyor	October 18, 2021	October 29, 2021	C14
New Mind Kingdom Ministries	October 18, 2021	No Response Received	-
Hammond Parks and Recreation Department	October 18, 2021	No Response Received	-
Hammond Planning and Development	October 18, 2021	No Response Received	-
Hammond Water Works	October 18, 2021	No Response Received	-
Hammond Environmental Management Office	October 18, 2021	No Response Received	-
Hammond Sewer Maintenance Department	October 18, 2021	No Response Received	-
Lake County Soil and Water Conservation District	October 18, 2021	No Response Received	-
Lake County Board of Commissioners	October 18, 2021	No Response Received	-
<sup>1</sup> East Chicago Water Works	October 21, 2021	No Response Received	-
<sup>1</sup> Indiana American Water Company	October 21, 2021	No Response Received	-
<sup>2</sup> IDNR-Division of Nature Preserves (DNP)	December 13, 2021	February 22, 2022	C43

<sup>1</sup>Please note that coordination with the East Chicago Water Works and Indiana American Water Company occurred on October 21, 2021, as a result of additional coordination required based on IDEM's Groundwater Section response on October 20, 2021. Please refer to the *Drinking Water Resources* section of this Categorical Exclusion (CE) document for more information.

<sup>2</sup>Please note that the project designer sent specific project information to the IDNR-DNP regarding the planned biorientation systems, at a request from the IDNR-DFW early coordination response letter. The IDNR-DNP responded on February 22, 2022, with planting recommendations (Appendix C, pages C43 to C49). Please refer to the *Terrestrial Habitat* section of this CE document for more information.

The Lake County surveyor responded on October 29, 2021, stating that they have reviewed the early coordination letter and that there does not appear to be any Section Corners within the project area. However, they went on to provide recommended steps and procedures to follow if any Section Corners, monumentation, or benchmarks are found or disturbed (Appendix C, pages C14 to C17).

INDOT, LaPorte District responded on November 03, 2021, stating that they have no comments at this time (Appendix C, page C19).

All applicable recommendations are included in the *Environmental Commitments* section of this Categorical Exclusion (CE) document.

<b>Streams, Rivers, and Other Jurisdictional Features Impacted:</b>	<b>No: X</b>	<b>Yes:</b>
---	--------------	-------------

Based on the desktop review, the aerial map of the project area, and the RFI report (Appendix E, pages E1 to E12) there is one stream, river, watercourse, or other jurisdictional feature within the 0.5 mile search radius. That number was not confirmed, as no streams, rivers, watercourses, or other jurisdictional features were found during the September 08, 2021, site visit by RQAW. No streams, rivers, watercourses, or other jurisdictional features are present within or adjacent to the project area, therefore, no impacts are expected.

**Indiana Department of Transportation**

County Lake Route Kennedy Avenue Des. No. 1901902

Please note that a *Waters of the U.S. Determination / Wetland Delineation Report* was not prepared for this project. This project takes place in a heavily urbanized area and no water resources were observed during the September 08, 2021, site visit by RQAW. Please refer to the project area maps and photos in Appendix B, pages B1 to B40.

**Early Coordination**

In their early coordination response, the IDNR-DFW recommended implementing erosion and sediment control measures to prevent it from entering into a stream or leaving the construction site. (Appendix C, pages C20 to C23). All applicable recommendations are included in the *Environmental Commitments* section of this CE document.

<b>Open Water Feature(s):</b>	<b>No: X</b>	<b>Yes:</b>
-------------------------------	--------------	-------------

Based on the desktop review, the aerial maps of the project area (Appendix B, pages B3 to B11), and the RFI report (Appendix E, pages E1 to E12), there are three open water features within the 0.5 mile search radius. That number was not confirmed, and no open water features were found during the September 08, 2021, site visit by RQAW. No open water feature(s) are present within or adjacent to the project area; therefore, no impacts are expected.

<b>Wetlands:</b>	<b>No: X</b>	<b>Yes:</b>
------------------	--------------	-------------

Based on the desktop review, the aerial map of the project area, and the RFI report (Appendix E, pages E1 to E12) there are twenty-one wetlands within the 0.5 mile search radius. That number was not confirmed, and no wetlands were found during the September 08, 2021, site visit by RQAW. No wetlands are present within or adjacent to the project area; therefore, no impacts are expected.

**Early Coordination:**

In their early coordination response, the IDNR-DFW recommended not excavating or placing fill in any riparian wetland and that coordination should occur with the IDEM 401 program and the USACE 404 program due to the potential presence of wetland habitat on site. (Appendix C, pages C20 and C23). All applicable recommendations are included in the *Environmental Commitments* section of this CE document.

<b>Terrestrial Habitat:</b>	<b>No:</b>	<b>Yes: X</b>
-----------------------------	------------	---------------

Based on a desktop review, a site visit on September 08, 2021, by RQAW, the aerial maps of the project area (Appendix B, pages B3 to B11), there is roadside grass habitat present within or adjacent to the project area. The roadside grass habitat will be impacted by the project due to the installation of bioretention systems within existing ROW. There are 3 areas in total (see Appendix B, page B57 for details) where these bioretention systems will be installed. Total area of disturbance to roadside grass habitat will equal 0.26 acre for installation of the bioretention systems. Mitigation for impacts to the roadside grass habitat is not anticipated to be required. Impacts to roadside grass habitat has been minimized to the greatest extent possible to allow for the installation of bioretention systems, which is a functional infrastructure element that will help improve stormwater quality in the area.

**Early Coordination:**

In their early coordination response (Appendix C, pages C20 to C23), the IDNR-DFW recommended to avoid removing urban street trees to the greatest extent possible and replacing any trees that must be removed. They also recommended that if any vegetation is removed from the right-of-way that the area be re-seeded with a native prairie/grassland mix. They went on to offer additional standard recommendations to avoid or minimize impacts to terrestrial habitat. All applicable recommendations are included in the *Environmental Commitments* section of this CE.

**Indiana Department of Transportation**

County Lake Route Kennedy Avenue Des. No. 1901902

It is important to note that the IDNR-DFW also requested that additional coordination occur with the IDNR-DNP regarding the planned bioretention systems to be installed as part of this project. The IDNR-DFW response letter is specifically referencing to potential impacts that could occur to the Gibson Wood Nature Preserve as a result of poorly managed roadway runoff and/or invasive plant species that could migrate off site and onto the nature preserve, if planted. The project designer initiated coordination with the IDNR-DNP on December 13, 2021 (Appendix C, pages C47 to C49). The project designer sent specific project information and details pertaining to the planned bioretention systems for review/comment and/or for the IDNR-DNP to make recommendations to prevent impacts to any sensitive communities surrounding the project area. The specific area of interest is the location of a proposed raingarden located at the intersection of Kennedy Ave. and Gibson Transfer Road (Appendix B, page B7), as it is adjacent to the Gibson Wood Nature Preserve. All roadway runoff through the rain garden would be directed to a storm sewer that would tie into a combination storm/sanitary sewer, that would end up at a sewage treatment plant for proper treatment. The goal of these bioretention features is to improve water quality at locations where it is practical and feasible to do so in an urban environment. In addition, the project designer also asked the IDNR-DNP for their recommendations for the types/species of plantings for the rain garden. The IDNR-DNP responded with native planting recommendations on February 22, 2022, and the list of plantings can be found in Appendix C, pages C44 to C45. The IDNR-DNP went on to state that the native plants are rather self-sustaining, and there would be issues with invasive (non-native) plants if they are not selectively controlled. The City of Hammond will be responsible for maintaining the area as the bioretention systems will be installed within city owned right-of-way. In addition, "Do Not Mow or Spray" signs will be added around the planned bioretention systems. The native planting recommendations provided by the IDNR-DNP will be included in the final design plans and in a Unique Special Provision (USP) to ensure no impacts occur to any sensitive communities surrounding the project area. A firm commitment to this effect has been added to the *Environmental Commitments* section of this document.

This project falls under the 2013 USFWS Interim Policy which includes a list of standard recommendations. The only applicable recommendation is to implement temporary erosion and sediment control measures in areas of disturbed soil, and that all disturbed soil areas should be revegetated upon project completion in accordance with INDOT standard specifications.

<b>Protected Species:</b>	<b>No:</b>	<b>Yes: X</b>
---------------------------	------------	---------------

Based on a desktop review and the RFI report (Appendix E, pages E1 to E12), completed by RQAW on March 8, 2022, the IDNR Lake County Endangered, Threatened and Rare (ETR) Species List has been checked. According to the IDNR-DFW early coordination response letter dated November 17, 2021 (Appendix C, pages C20 to C23), the Natural Heritage Program's Database has been checked and there are several managed lands, high quality natural communities, and species that have been documented within 0.5 mile of the project area. The IDNR-DFW provided a list of all sensitive areas/communities and species within 0.5 mile of the project area and it is attached in Appendix C, page C23. The IDNR-DFW stated that the Franklin's Ground Squirrel (*Poliocitellus franklinii*) and the Bald Eagle (*Haliaeetus leucocephalus*) are known to exist within 0.5 mile of the project area.

**Franklin's Ground Squirrel (FGS):**

The IDNR-DFW stated that the scope of the project to the south of 161<sup>st</sup> Street is not likely to impact FGS, though the portion north of 161<sup>st</sup> Street poses a greater risk. They went on to state that if no widening of the road will occur through the described activities in the early coordination letter, then the risk to FGS will be minimal in the northern half of the project. FGS live in burrows year-round and are active above ground from April through October. They are a diurnal species that primarily eats grass seed. Construction activities may startle the species and force them to stay within burrows or to cross the road quickly which could result in vehicle strikes. As the project is described, vehicle strikes are the greatest risk to the species. It is possible that impacts to FGS may also occur when excavating the existing ditches north of

**Indiana Department of Transportation**

County Lake Route Kennedy Avenue Des. No. 1901902

161<sup>st</sup> Street or preparing for the new ditches. They went on to state that to minimize impacts to FGS, look out for any burrows in the area, which may be hidden beneath vegetation, and avoid damaging them as much as possible. However, there will be no work outside the asphalt/gravel shoulder as shown on the plans (Appendix B, pages B41 to B63) except for in isolated areas where the bioretention systems will be installed (Appendix B, page B57). Therefore, impacts to FGS are assumed to be minimal as stated by the IDNR-DFW.

**Bald Eagle:**

The IDNR-DFW stated that the Bald Eagle is no longer a state species of special concern. However, this species is still federally protected. The recommended buffer between any disturbance and an active eagle nest is 660 feet. They also stated to minimize impacts to Bald Eagles, follow the National Bald Eagle Management Guidelines found at:

<http://www.fws.gov/midwest/eagle/pdf/NationalBaldEagleManagementGuidelines.pdf>. and to contact the USFWS if further consultation is needed regarding Bald Eagles. The IDNR-DFW concluded their response by stating that they do not foresee any impacts to the documented reptile, amphibian, and bird species (aside from the Bald Eagle) as a result of this project. There are no known bald eagles nest within 660 ft. of the project area. This project qualifies for the most current INDOT/USFWS agreement. Therefore, no additional coordination regarding the Bald Eagle is required.

An INDOT 0.5-mile bat review occurred on September 14, 2021, by INDOT LaPorte District. The review of the USFWS database did not indicate the presence of endangered bat species within 0.5 mile of the project area (Appendix C, page C24).

**USFWS IPaC Official Species List and Affect Determination:**

Project information was submitted through the USFWS's Information for Planning and Consultation (IPaC) portal, and an official species list was generated (Appendix C, pages C25 to C31). The project is within range of the federally endangered Indiana bat (*Myotis sodalis*) and the federally threatened northern long-eared bat (NLEB) (*Myotis septentrionalis*). One additional federally endangered species was generated in the IPaC species list along with the Indiana bat and northern long-eared bat. Please refer to the below paragraph.

The official species list generated from IPaC indicated that the federally endangered species, Karner Blue Butterfly (*Lycæides melissa samuelis*), is listed within the project area. This project qualifies for the most current INDOT/USFWS agreement. Therefore, no additional coordination with the USFWS is needed concerning this species at this time.

The project qualifies for the *Rangewide Programmatic Informal Consultation for the Indiana bat and northern long-eared bat (NLEB)*, dated May 2016 (revised February 2018), between FHWA, Federal Railroad Administration (FRA), Federal Transit Administration (FTA), and USFWS. An effect determination key was completed on December 22, 2021, and based on the responses provided, the project was found to "Not Likely to Adversely Affect" the Indiana bat and/or the NLEB (Appendix C, pages C33 to C42). INDOT reviewed and concurred with the effect finding on December 27, 2021 (Appendix C, page C32). No response was received from USFWS within the 14-day review period; therefore, it was concluded they concur with the finding. Avoidance and Minimization Measures (AMM's) pertain to lighting and general AMM's. The AMM's provided are included as firm commitments in the *Environmental Commitments* section of this document.

This precludes the need for further consultation on this project as required under Section 7 of the Endangered Species Act, as amended. If new information on endangered species at the site becomes available, or if project plans are changed, USFWS will be contacted for consultation.

**Indiana Department of Transportation**

County Lake Route Kennedy Avenue Des. No. 1901902

<b>Geological and Mineral Resources:</b>	<b>No: X</b>	<b>Yes:</b>
<p>Based on a desktop review and the Indiana Karst Region map, the project is located outside the designated Indiana Karst Region as outlined in the most current <i>Protection of Karst Features during Project Development and Construction</i>. According to the topo map of the project area (Appendix B, page B2), and the RFI report (Appendix E, pages E1 to E12), there are no karst features that have been identified within or adjacent to the project area. In the early coordination response dated October 18, 2021, the Indiana Geological and Water Survey (IGWS) did not indicate that karst features exist within the project area (Appendix C, pages C10 to C12). However, the IGWS did indicate that within 0.5 mile of the project area there is a high liquefaction potential, a floodway is present, high potential for encountering bedrock resources, low potential for encountering sand and gravel resources, and there are no known active/abandoned petroleum exploration wells documented in the area. The response from IGWS has been communicated with the designer on October 28, 2021. No impacts are expected.</p>		
<b>Drinking Water Resources:</b>	<b>No:</b>	<b>Yes: X</b>
<p><b><u>Sole Source Aquifer:</u></b>                  The project is located in Lake County, which is not located within the area of the St. Joseph Sole Source Aquifer, the only legally designated sole source aquifer in the state of Indiana. Therefore, the FHWA/EPA Sole Source Aquifer Memorandum of Understanding (MOU) is not applicable to this project, a detailed groundwater assessment is not needed, and no impacts are expected.</p> <p><b><u>Wellhead Protection Area and Source Water Area:</u></b>                  The Indiana Department of Environmental Management's Wellhead Proximity Determinator website (<a href="http://www.in.gov/idem/cleanwater/pages/wellhead/">http://www.in.gov/idem/cleanwater/pages/wellhead/</a>) was accessed on October 15, 2021, by RQAW. This project is not located within a wellhead protection area, but it is located within a Source Water Area. An early coordination letter was sent to IDEM, Groundwater Section on October 18, 2021 (Appendix C, page C1 to C3). In a response email dated October 20, 2021, the IDEM Groundwater Section stated that this project is located within three separate Source Water Assessment Areas (Hammond Water Works Department, Indiana American Water -North, and East Chicago Water Works) (Appendix C page C13). Early Coordination letters were sent on October 18, 2021, to Hammond Water Works Department, and on October 21, 2021, to Indiana American Water Company-Northwest, and East Chicago Water Works. No responses were received. These features are not likely to be impacted as all work will be conducted in accordance with an IDEM Rule 5 permit under 327 IAC 15-5.</p> <p><b><u>Water Wells:</u></b>                  The Indiana Department of Natural Resources Water Well Record Database website (<a href="https://www.in.gov/dnr/water/3595.htm">https://www.in.gov/dnr/water/3595.htm</a>) was accessed on October 15, 2021, by RQAW. No wells are located near this project. Therefore, no impacts are expected.</p> <p><b><u>Urban Area Boundary:</u></b>                  Based on a desktop review of IDEM's website at: <a href="https://www.in.gov/idem/cleanwater/ms4s-boundaries-map-for-indiana">https://www.in.gov/idem/cleanwater/ms4s-boundaries-map-for-indiana</a> by RQAW on October 15, 2021, this project is located in an Urban Area Boundary (UAB). An early coordination letter was sent to the City of Hammond MS4 coordinator on October 18, 2021. The MS4 coordinator did not respond within the 30-day time frame.</p> <p><b><u>Public Water System:</u></b>                  Based on a desktop review, a site visit on September 8, 2021, by RQAW, the aerial maps of the project area (Appendix B, pages B3 to B11), this project is located where there is a public water supply. The Hammond Water Works Department has water mains that exist within the project area. According to the project designer, the public water system will not likely be impacted as the max depth of excavation for roadway work will be approximately 2 ft. below ground surface (bgs), 1.5 ft. bgs for drive approaches, and</p>		







**Indiana Department of Transportation**

County Lake Route Kennedy Avenue Des. No. 1901902

0.5 mile search radius. According to additional research, at NIRPC's website at: <https://nirpc.org/2040-plan/mobility/greenways-blueways/> and the City of Hammond Parks and Recreation Department website at: <https://hammondsd.maps.arcgis.com/apps/webappviewer/index.html?id=35adc36758e74763b75095ad7b246a94> and the site visit on September 08, 2021, by RQAW, there is one Section 4(f) resource located adjacent to the project area. The Gibson Wood Nature Preserve is located just east of the project area on the east side of Gibson Transfer Road.

**Gibson Woods Nature Preserve:**

This nature preserve is notable for its unique and globally rare dune and swale ecosystem and qualifies as a Section 4(f) resource as it is a significant publicly owned park. The project will not use this resource by taking permanent right-of-way and will not indirectly use the resource in such a way that the protected activities, features, or attributes that qualify a resource for protection under Section 4(f) are substantially impaired. Therefore, no Section 4(f) use is expected.

It is important to note that there is a proposed on-street bicycle trail within the project area according to the City of Hammond Parks and Recreation Department website. In addition, a portion of the trail segment was identified in the RFI report (Appendix E, page E10). This proposed bicycle trail will be installed as part of this project (Appendix I, page I2). However, this trail segment would not be considered a Section 4(f) resource as it will be installed within existing transportation ROW and consist of on-street biking lanes that will primarily be used for transportation rather than recreation.

According to GIS, this resource is referred to as the Twin Rivers Trail, but the specific segment is referred to as the Grand Calumet River to the Little Calumet River Trail as indicated in the RFI report. Further research using the City of Hammond Parks and Recreation Department website showed that this trail is listed as a proposed trail and is currently un-named. The proposed trail installed as part of this project will consist of on-street bicycle facilities. This project will install the on-street bicycle facilities from 164th Place to the north exit ramp for US 20/Michigan St.

**Section 6(f):**

The U.S. Land and Water Conservation Fund Act of 1965 established the Land and Water Conservation Fund (LWCF), which was created to preserve, develop, and assure accessibility to outdoor recreation resources. Section 6(f) of this Act prohibits conversion of lands purchased with LWCF monies to a non-recreation use.

A review of Section 6(f) properties on the INDOT ESD website revealed a total of 57 properties in Lake County (Appendix I, page I1). One property, Gibson Woods Nature Preserve is adjacent to the project area. However, as discussed above under the Section 4(f) resources, there will be no impacts to this property. Therefore, there will be no impacts to Section 6(f) resources.

<b>Air Quality:</b>	<b>No: X</b>	<b>Yes:</b>
---------------------	--------------	-------------

**STIP and TIP:**

This project is included in the Fiscal Year (FY) 2022-2026 NIRPC Transportation Improvement Program (TIP) and therefore, is included by reference into the 2022-2026 Statewide Transportation Improvement Program (STIP) (Appendix H, pages H1 to H6).

**Attainment Status:**

This project is located in Lake County, which is currently a nonattainment area for Ozone, under the 1997 Ozone 8-hour standard which was revoked in 2015 but is being evaluated for conformity due to the February 16, 2018, South Coast Air Quality Management District V. Environmental Protection Agency, Et. Al. Decision. This project has been identified as being exempt from air quality analysis in accordance



**Indiana Department of Transportation**

County Lake Route Kennedy Avenue Des. No. 1901902

and the need for any obstructions within 5 miles to meet a 100:1 glideslope to the nearest runway according to 14 CFR Part 77 standards. A firm commitment to this effect has been added to the *Environmental Commitments* section of this CE document.

It is the responsibility of the project sponsor to notify school corporations and emergency services at least two weeks prior to any construction that would block or limit access.

<b>Hazardous Materials and Regulated Substances:</b>	<b>No:</b>	<b>Yes: X</b>
--	------------	---------------

Based on a review of GIS and available public records, a RFI was concurred by INDOT SAM on March 08, 2022 (Appendix E, pages E1 to E12). There are seven (7) Resource Conservation and Recovery Act (RCRA) Generator/ Treatment, Storage and Disposal (TSD) sites, two (2) State Cleanup sites, six (6) Underground Storage Tanks (UST) sites, one (1) Voluntary Remediation Program (VRP) site, eleven (11) Leaking Underground Storage Tanks (LUST) sites, one (1) Brownfield site, fifteen (15) Institutional Control sites, eleven (11) National Pollutant Discharge Elimination System (NPDES) facilities, and six (6) NPDES Pipe locations located within 0.5 mile of the project area. One (1) RCRA Generator/TSD site, one (1) State Cleanup site, one (1) Brownfield site, and one (1) Institutional Control site could impact the project.

The RFI recommended the following:

State Cleanup Sites/RCRA Generator/TSD Site: Central Rent A Crane Incorporated, 5725 Kennedy Avenue (AI ID 18735), is incorrectly mapped within the central portion of the project area. The site is actually located adjacent to the east of the project area, at the norther project terminus. This site is associated with a release from the SOPUS pipeline. The section of the pipeline where a release occurred is located under the Central Rent A Crane Incorporated property and the Dana Transport/Peerless Transport Corporation property, 5723 Kennedy Avenue (AI ID 17690). Contamination remains on-site and groundwater/soil impacts may extend off-site under Kennedy Avenue. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager (Roxann Sanders, [rsanders@idem.in.gov](mailto:rsanders@idem.in.gov)) before RFC.

Institutional Controls Site: Buckeye Terminals LLC Hammond/Former Shell Oil East Chicago, 2400 Michigan Street (AI ID 11991), is located adjacent to the west of the project area, at the northern project terminus. This site is the location of an active petroleum storage terminal, approximately 175 acres in size. Petroleum products are delivered via underground pipelines. Multiple petroleum releases have occurred at this site. Contamination remains on the site with concentrations stable and not anticipated to migrate further. The site received a certification of completion from IDEM on February 19, 2020. An Environmental Restrictive Covenant (ERC) for the property was recorded with Lake County on October 23, 2019. The ERC specifically prohibits the use of groundwater and soil. Coordination will be conducted with the IDEM Institutional Controls section ([institutionalcontrols@idem.IN.gov](mailto:institutionalcontrols@idem.IN.gov)) before RFC.

Brownfields site: McCloskey's Phillips 66, 6101 Kennedy Avenue (AI ID 18479) is located adjacent to the east of the project area at the intersection of 161st Street. According to the No Further Action (NFA) Approval issued by IDEM on March 4, 2003, contamination remains in the area surrounding the site. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary.

Firm commitments regarding the RFI recommendations have been added to the *Environmental Commitments* section of this CE document.

**Indiana Department of Transportation**

County Lake Route Kennedy Avenue Des. No. 1901902

Permits:	No:	Yes: X
<p>This project is anticipated to require an IDEM Construction Stormwater General Permit (Formally known as Rule 5 permit) as soil disturbance will exceed 1 acre. No other permits are anticipated.</p> <p>Applicable recommendations provided by resource agencies are included in the <i>Environmental Commitments</i> section of this document. If permits are found to be necessary, the conditions of the permit will be requirements of the project and will supersede these recommendations.</p> <p>It is the responsibility of the project sponsor to identify and obtain all required permits.</p>		

<b>ENVIRONMENTAL COMMITMENTS:</b>
<p><b>Firm:</b></p> <ol style="list-style-type: none"><li>1. If the scope of work or permanent or temporary right-of-way amounts change, the INDOT Environmental Services Division (ESD) and the INDOT District Environmental Section will be contacted immediately. (INDOT ESD and INDOT LaPorte District)</li><li>2. It is the responsibility of the project sponsor to notify school corporations and emergency services at least two weeks prior to any construction that would block or limit access. (INDOT ESD)</li><li>3. McCloskey's Phillips 66, 6101 Kennedy Avenue (AI ID 18479) is located adjacent to the east of the project area at the intersection of 161st Street. According to the NFA Approval issued by IDEM on March 4, 2003, contamination remains in the area surrounding the site. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary. (INDOT SAM)</li><li>4. Buckeye Terminals LLC Hammond/Former Shell Oil East Chicago, 2400 Michigan Street (AI ID 11991), is located adjacent to the west of the project area, at the northern project terminus. This site is the location of an active petroleum storage terminal, approximately 175 acres in size. Petroleum products are delivered via underground pipelines. Multiple petroleum releases have occurred at this site. Contamination remains on the site with concentrations stable and not anticipated to migrate further. The site received a certification of completion from IDEM on February 19, 2020. An ERC for the property was recorded with Lake County on October 23, 2019. The ERC specifically prohibits the use of groundwater and soil. Coordination will be conducted with the IDEM Institutional Controls section (<a href="mailto:institutionalcontrols@idem.IN.gov">institutionalcontrols@idem.IN.gov</a>) before RFC. The project designer will be responsible for completing this coordination. (INDOT SAM)</li><li>5. Central Rent A Crane Incorporated, 5725 Kennedy Avenue (AI ID 18735), is incorrectly mapped within the central portion of the project area. The site is actually located adjacent to the east of the project area, at the norther project terminus. This site is associated with a release from the SOPUS pipeline. The section of the pipeline where a release occurred is located under the Central Rent A Crane Incorporated property and the Dana Transport/Peerless Transport Corporation property, 5723 Kennedy Avenue (AI ID 17690). Contamination remains on-site and groundwater/soil impacts may extend off-site under Kennedy Avenue. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager (Roxann Sanders, <a href="mailto:rsanders@idem.in.gov">rsanders@idem.in.gov</a>) before RFC. The project designer will be responsible for completing this coordination. (INDOT SAM)</li><li>6. If any object, obstruction, or equipment will exceed 115 ft. in height, further coordination will be required with INDOT, Office of Aviation and the Federal Aviation Administration (FAA). (INDOT Aviation)</li></ol>

**Indiana Department of Transportation**

County Lake Route Kennedy Avenue Des. No. 1901902

7. To minimize impacts to the Franklin's Ground Squirrel, look out for any burrows in the area which may be hidden beneath vegetation, and avoid damaging them as much as possible. (IDNR-DFW)
8. Be advised that any monumentation that is directly or indirectly impacted with the proposed project, must be replaced/restored to its original condition or better by the City of Hammond or their contractor, and is subject to conditions set forth by the Lake County Surveyor's Office or its agents. Indiana Code 36-2-12-1 et. Seq. and other applicable statues and/or ordinances. (Lake County Surveyor)
9. Any Section Corner disturbed or removed must be re-established by an Indiana Registered Land Surveyor and/or Professional Engineer. All witness references must be tied to the newly established Section Corner, and all documentation immediately forwarded to the Lake County Surveyor's Office for its records. (Lake County Surveyor)
10. Any Benchmark in danger of disturbance must be replaced with a Brass Monument and must have an elevation established by an Indiana Registered Land Surveyor and/or Professional Engineer. The elevation must be tied to an existing USC&GS benchmark, and all documentation immediately forwarded to the Lake County Surveyor's Office for its records. (Lake County Surveyor)
11. The native planting recommendations provided by the IDNR-DNP for the bioretention systems will be included in the final design plans and in a Unique Special Provision (USP) to ensure no impacts occur to any sensitive communities surrounding the project area. (INDOT ESD)
12. General AMM1: Ensure all operators, employees, and contractors working in areas of known or presumed bat habitat are aware of all FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable AMMs. (USFWS)
13. Lighting AMM1: Direct temporary lighting away from suitable habitat during the active season. (USFWS)

**For Consideration:**

1. Do not cut any trees suitable for Indiana bat or Northern Long-eared bat roosting (greater than 5 inches dbh, living or dead, with loose hanging bark, or with cracks, crevices, or cavities) from April 1 through September 30. (IDNR-DFW)
2. Plant five trees, at least 2 inches in diameter-at-breast height, for each tree which is removed that is ten inches or greater in diameter-at-breast height. (IDNR-DFW)
3. If tree removal is needed, the Division of Fish & Wildlife recommends avoiding removing urban trees to the greatest extent possible and replacing trees that must be removed. (IDNR-DFW)
4. Should any right-of-way have vegetation removed, we recommend that the area be reseeded with a native prairie/grassland mix. (IDNR-DFW)
5. If tree removal is needed, the Division of Fish & Wildlife recommends avoiding removing urban trees to the greatest extent possible and replacing trees that must be removed. (IDNR-DFW)

This is page 17 of 17 Project name: Kennedy Avenue: Roadway Project Date: July 5, 2022

# Designation (Des.) Number 1901902

## Kennedy Avenue: Roadway Project – Lake County, Indiana

### Appendix A: INDOT Supporting Documentation

Categorical Exclusion Level Thresholds .....	A1
INDOT, LaPorte District Email Correspondence .....	A2

### Appendix B: Graphics

General Location Map .....	B1
Topographic Map .....	B2
Aerial Maps .....	B3
Photo Location Maps and Photographs .....	B12
Stage 2 Design Plans .....	B41

### Appendix C: Early Coordination

Example Early Coordination Letter ( <i>graphics omitted</i> ) .....	C1
Indiana Department of Environmental Management (IDEM)	
Standard Electronic Response Letter .....	C4
Indiana Geological and Water Survey (IGWS)	
Electronic Response .....	C10
IDEM, Groundwater Section	
Response Email .....	C13
Lake County Surveyor	
Response Letter .....	C14
INDOT, Aviation	
Response Email .....	C18
INDOT, Laporte District Environmental Manager	
Response Email .....	C19
Indiana Department of Natural Resources, Division of Fish and Wildlife (IDNR-DFW)	
Response Letter .....	C20
Natural Heritage Data List .....	C23
U.S. Fish and Wildlife Service (USFWS) Coordination	
INDOT District USFWS Bat Database Check Email .....	C24
USFWS IPaC Official Species List .....	C25
INDOT District USFWS IPaC Concurrence email .....	C32
IPaC Concurrence Verification Letter .....	C33
Indiana Department of Natural Resources, Division of Nature Preserves (IDNR-DNP)	
Response Email .....	C43

### Appendix D: Section 106 of the National Historic Preservation Act (NHPA)

Minor Projects Programmatic Agreement (MPPA) Documentation .....	D1
--	----

### Appendix E: Red Flag Investigation and Hazardous Materials

Red Flag Investigation .....	E1
------------------------------	----

### Appendix F: Water Resources

IDNR Indiana Floodplain Information Portal (INFIP) Map .....	F1
--	----

### Appendix G: Public Involvement

Public Involvement Plan .....	G1
-------------------------------	----

# Designation (Des.) Number 1901902

---

---

## Kennedy Avenue: Roadway Project – Lake County, Indiana

---

---

### Appendix H: Air Quality

2022-2026 Statewide Transportation Improvement Program (STIP) Approval Pages .....	H1
2022-2026 NIRPC Transportation Improvement Program (TIP) ( <i>relevant pages only</i> ) .....	H5
2020-2024 NIRPC TIP Amendment 22-56 (pulled from 2022-2026 TIP) .....	H6

### Appendix I: Additional Studies

Land and Water Conservation Fund (LWCF) List .....	I1
Grand Marquette Trail Plan Map .....	I2
Draft Abbreviated Engineers Report .....	I3

**Categorical Exclusion**  
**Appendix A**  
**INDOT Supporting Documentation**



## Categorical Exclusion Level Thresholds

	PCE	Level 1	Level 2	Level 3	Level 4 <sup>1</sup>
<b>Section 106</b>	Falls within guidelines of Minor Projects PA	“No Historic Properties Affected”	“No Adverse Effect”	-	“Adverse Effect” Or Historic Bridge involvement <sup>2</sup>
<b>Stream Impacts<sup>3</sup></b>	No construction in waterways or water bodies	< 300 linear feet of stream impacts	≥ 300 linear feet of stream impacts	-	USACE Individual 404 Permit <sup>4</sup>
<b>Wetland Impacts<sup>3</sup></b>	No adverse impacts to wetlands	< 0.1 acre	-	< 1.0 acre	≥ 1.0 acre
<b>Right-of-way<sup>5</sup></b>	Property acquisition for preservation only or none	< 0.5 acre	≥ 0.5 acre	-	-
<b>Relocations</b>	None	-	-	< 5	≥ 5
<b>Threatened/Endangered Species (Species Specific Programmatic for Indiana bat &amp; northern long eared bat) *</b>	“No Effect”, “Not likely to Adversely Affect” (With select AMMs <sup>6</sup> )	“Not likely to Adversely Affect” (With any AMMs or commitments)	-	“Likely to Adversely Affect”	Project does not fall under Species Specific Programmatic <sup>7</sup>
<b>Threatened/Endangered Species (Any other species) *</b>	Falls within guidelines of USFWS 2013 Interim Policy or “No Effect”	“Not likely to Adversely Affect”	-	-	“Likely to Adversely Affect”
<b>Environmental Justice</b>	No disproportionately high and adverse impacts	-	-	-	Potential <sup>8</sup>
<b>Sole Source Aquifer</b>	No Detailed Groundwater Assessment	-	-	-	Detailed Groundwater Assessment
<b>Floodplain</b>	No Substantial Impacts	-	-	-	Substantial Impacts
<b>Section 4(f) Impacts</b>	None	-	-	-	Any <sup>9</sup>
<b>Section 6(f) Impacts</b>	None	-	-	-	Any
<b>Permanent Traffic Alteration</b>	None	-	-	-	Any
<b>Noise Analysis Required</b>	No	-	-	-	Yes
<b>Air Quality Analysis Required</b>	No	-	-	-	Yes <sup>10</sup>
<b>Approval Level</b>	Concurrence by DE or ESD	DE or ESD	DE or ESD	DE and/or ESD	DE and/or ESD; and FHWA

<sup>1</sup> Coordinate with INDOT Environmental Services Division. INDOT will then coordinate with the appropriate FHWA Environmental Specialist.

<sup>2</sup> Any involvement with a bridge processed under the Historic Bridge Programmatic Agreement.

<sup>3</sup> Total permanent impacts to streams (linear feet) and wetlands (acres).

<sup>4</sup> US Army Corps of Engineers Individual 404 Permit

<sup>5</sup> Total permanent and temporary right-of-way. This does not include reacquisition of existing apparent right-of-way.

<sup>6</sup> Avoidance and Mitigation Measures (AMMs) determined by the IPAC determination key to be required that are not tree AMMs, bridge AMMs, or structure AMMs.

<sup>7</sup> Projects that do not fall under a Species Specific Programmatic and results in a “Likely to Adversely Affect”. Other findings can be processed as a lower level CE.

<sup>8</sup> Potential for causing a disproportionately high and adverse impact.

<sup>9</sup> Section 4(f) use resulting in an Individual, Programmatic, or *de minimis* evaluation. The only exception is a *de minimis* evaluation for historic properties (Effective January 2, 2020). If a historic property *de minimis* and no other use, mark the *None* column.

<sup>10</sup> Hot Spot Analysis and/or MSAT Quantitative Emission Analysis.

\* Includes the threatened/endangered species critical habitat

**Note: Substantial public or agency controversy may require a higher-level NEPA document.**

Please note that this project falls under the PCE thresholds; however, a CE-1 was determined to be appropriate for this project as it represents a change in the transportation facility that could potentially result in public controversy.

**From:** Michels, Stewart <SMichels@indot.IN.gov>  
**Sent:** Tuesday, August 31, 2021 4:08 PM  
**To:** Aaron Lawson  
**Cc:** Joseph Dabkowski; Harlan Ford; Bales, Ronald; Miller, Brandon; Przybylinski, Ashley E  
**Subject:** [EXT] RE: Des 1901902: Kennedy Avenue Road Diet Project, Lake Co. - PCE Applicability Question

**\*\*\*\* Please use caution this is an externally originating email. \*\*\*\*  
Do not click on links or open attachments unless you recognize the sender and know the contents is safe.**

Aaron,

Thank you very much for the thoughtful analysis. I've discussed this type of project with Brandon in the past and I've received some additional guidance from Ron. Projects of this type (road diets) can be controversial and reflect a change in the transportation facility, so we have been processing them as CE-1 with an opportunity for public engagement (i.e., an opportunity for a public hearing should be offered). Thank you, again, for your analysis and the inquiry.

Best,  
Stew

---

**From:** Aaron Lawson <[alawson@rqaw.com](mailto:alawson@rqaw.com)>  
**Sent:** Tuesday, August 31, 2021 12:40 PM  
**To:** Michels, Stewart <[SMichels@indot.IN.gov](mailto:SMichels@indot.IN.gov)>  
**Cc:** Joseph Dabkowski <[jdabkowski@rqaw.com](mailto:jdabkowski@rqaw.com)>; Harlan Ford <[hford@rqaw.com](mailto:hford@rqaw.com)>; Bales, Ronald <[rbales@indot.IN.gov](mailto:rbales@indot.IN.gov)>  
**Subject:** Des 1901902: Kennedy Avenue Road Diet Project, Lake Co. - PCE Applicability Question

**\*\*\*\* This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*\***

---

Hi Stewart,

We will be working on the environmental document for a local project located on Kennedy Avenue in Hammond, IN (Des 1901902), and we are trying to determine whether the project would qualify for the new PCE. Thus, we are requesting your assistance with this applicability determination.

The project begins on Kennedy Avenue at the south approach of 164th Place and runs north approximately 4,800 feet to the south access road to Michigan Street (US 20), excepting the County Bridge (NBI: 4500185) over the railroad. The project will take place within existing City right-of-way and within previously disturbed soils. Water quality permits are not anticipated (pending the field check). Additionally, the Section 106 Minor Projects PA Category B documentation was recently submitted to INDOT CRO for review/approval.

The proposed project would involve the work items listed below, and I've indicated in green which items we feel would fall under the new PCE. However, there are a few items that we are unsure about, which I have also noted, specifically the reduction of travel lanes (adjusting pavement markings), proposed parking bump outs, and the construction of green infrastructure items. Could you please review these and let me know if these items would or would not qualify under the new PCE?

- road diet (lane reduction): reducing from 2 lanes in each direction to 1 lane in each direction, and the addition of a two way left turn lane (TWLT) – **Unsure, the new PCE states it may not qualify but to contact the District Environmental**
- addition of bicycle lanes on the outside edge of the travel lanes - **Yes**
- minor reconfiguration of the traffic signal at the signalized intersection with Cleveland Street to accommodate the new travel lane configuration - **Yes**
- 8 ft. wide parking bump outs between the bicycle lanes and curb - **Unsure**
- curbs and gutters are anticipated to be retained but any curb ramps and driveway transitions that are in poor condition or do not meet ADA standards would be replaced - **Yes**
- reconstructing approximately 4 ft. around existing manholes or drainage inlets that are disturbed during the road work. Structure castings may need to be replaced, adjusted, or added to accommodate any minor changes in the grade or planned bioretention system treatments (noted below) - **Yes**
- V-gutters replacement - **Yes**
- addition of barrier curb - **Yes**
- construction of green infrastructure items, which may include bioretention curbs, infiltration trenches, bio-swales, rain garden and natural vegetation - **Unsure**
- pavement treatments within the project area would involve pavement reconstruction, and milling 4 inches of the existing pavement and resurface with 4 inches of HMA - **Yes**
- The County Bridge on Kennedy Avenue is planned to be replaced but there is not a defined schedule for the bridge project at this time. If this project is constructed prior to the bridge replacement project, the typical section will be modified to meet the County's requirements for shoulder widths - **Yes, if determined to be needed**

We greatly appreciate your help on this!

Thank you,



**Aaron Lawson**  
Project Manager  
8770 North St., Ste. 110  
Fishers, IN 46038  
O: 317.588.1763  
C: 317.691.9210  
[www.rqaw.com](http://www.rqaw.com)

**Categorical Exclusion**  
**Appendix B**  
**Graphics**



General Location  
 Kennedy Avenue: Roadway Project  
 Des. No. 1901902  
 Lake County, Indiana

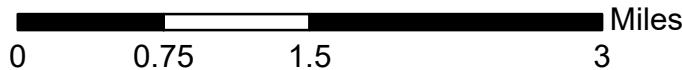


Map Datum: NAD 83  
 Map Projection: UTM Zone 16 North  
 This map is intended to serve as an aid in graphic representation only.  
 This information is not warranted for accuracy or other purposes.  
 Data obtained from the State of Indiana GIO Library.  
 Orthophotography obtained from Indiana Map Framework Data.

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



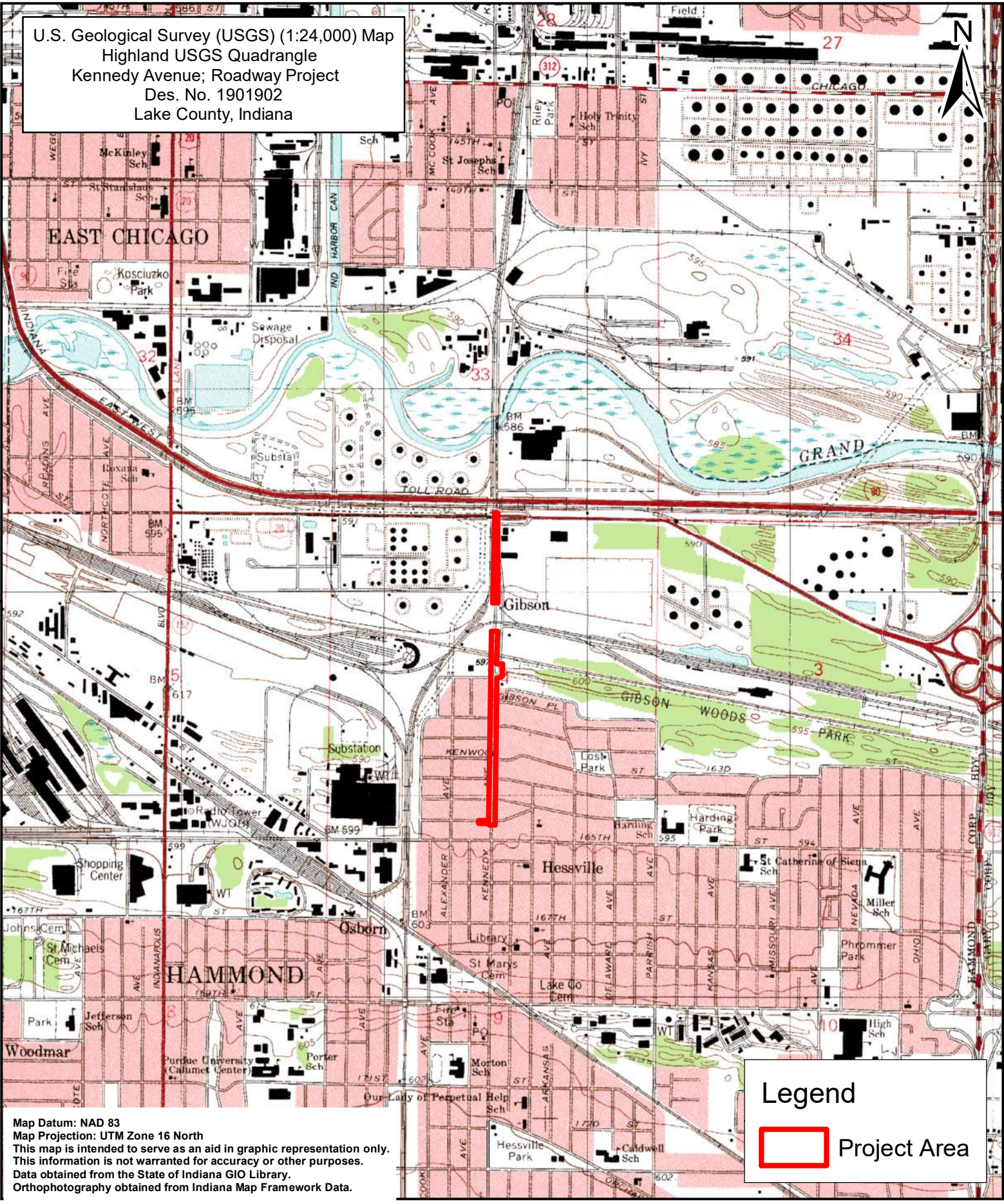
### General Location



Location: Kennedy Ave.  
 Township: North  
 County: Lake



U.S. Geological Survey (USGS) (1:24,000) Map  
 Highland USGS Quadrangle  
 Kennedy Avenue; Roadway Project  
 Des. No. 1901902  
 Lake County, Indiana



**Legend**

Project Area

Map Datum: NAD 83  
 Map Projection: UTM Zone 16 North  
 This map is intended to serve as an aid in graphic representation only.  
 This information is not warranted for accuracy or other purposes.  
 Data obtained from the State of Indiana GIO Library.  
 Orthophotography obtained from Indiana Map Framework Data.



**USGS Topographic Map**

0    1,000    2,000    4,000    Feet

Location: Kennedy Ave.  
 Township: North  
 County: Lake



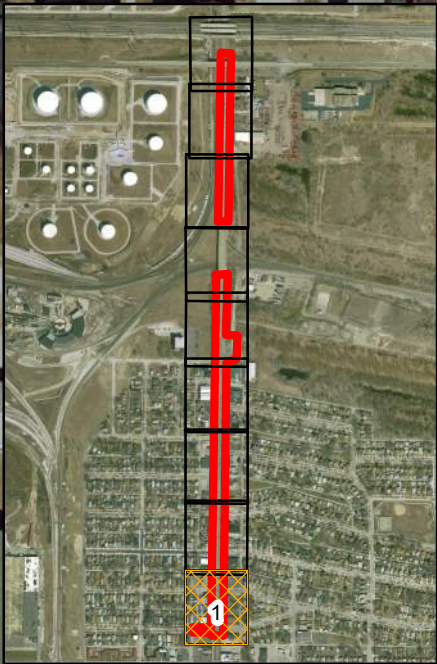
Aerial Map  
 Kennedy Avenue: Roadway Project  
 Des. No. 1901902  
 Lake County, Indiana



CLEVELAND ST

KENNEDY AV

164TH PL



**Legend**

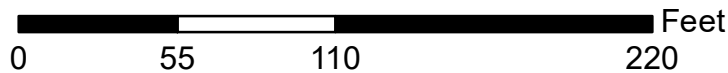
- Project Area
- Active Map Extent
- Map Extents
- Bioretention Systems
- Construction Limits
- Design

Map Datum: NAD 83  
 Map Projection: UTM Zone 16 North  
 This map is intended to serve as an aid in graphic representation only.  
 This information is not warranted for accuracy or other purposes.  
 Data obtained from the State of Indiana GIO Library.  
 Orthophotography obtained from Indiana Map Framework Data.

State of Indiana



**Aerial Map 1 of 9**



Location: Kennedy Avenue  
 Township: North  
 County: Lake

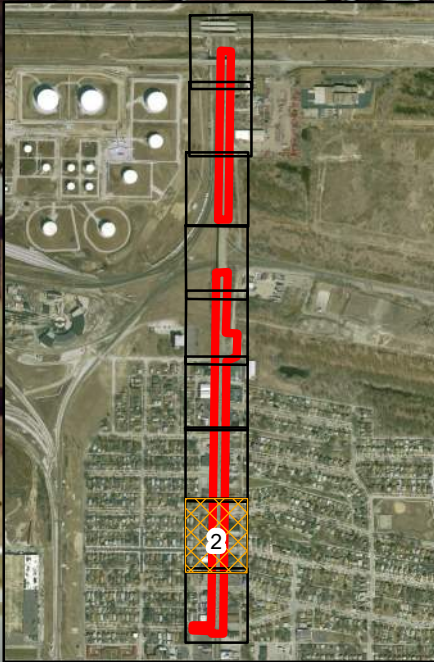


Aerial Map  
 Kennedy Avenue: Roadway Project  
 Des. No. 1901902  
 Lake County, Indiana









KENWOOD ST

KENNEDY AV



**Legend**

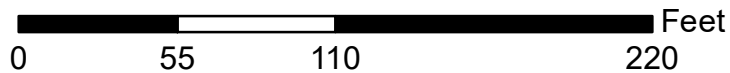
-  Project Area
-  Active Map Extent
-  Map Extents
-  Bioretention Systems
-  Construction Limits
-  Design

Map Datum: NAD 83  
 Map Projection: UTM Zone 16 North  
 This map is intended to serve as an aid in graphic representation only.  
 This information is not warranted for accuracy or other purposes.  
 Data obtained from the State of Indiana GIO Library.  
 Orthophotography obtained from Indiana Map Framework Data.

State of Indiana



**Aerial Map 2 of 9**



Location: Kennedy Avenue  
 Township: North  
 County: Lake



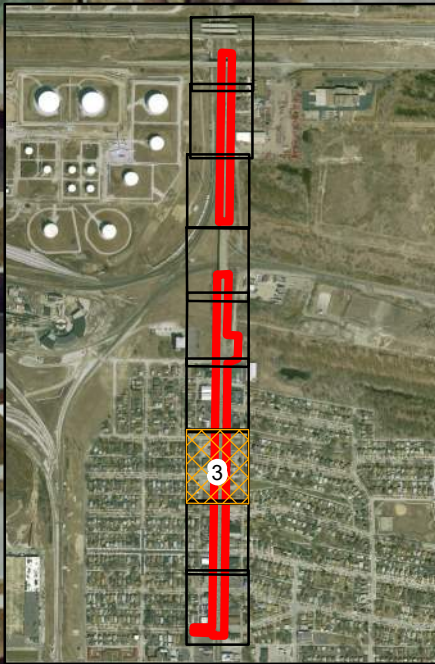
Aerial Map  
 Kennedy Avenue: Roadway Project  
 Des. No. 1901902  
 Lake County, Indiana



162ND ST

JANET PL

KENNEDY AV



**Legend**

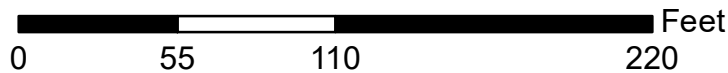
- Project Area
- Active Map Extent
- Map Extents
- Bioretention Systems
- Construction Limits
- Design

Map Datum: NAD 83  
 Map Projection: UTM Zone 16 North  
 This map is intended to serve as an aid in graphic representation only.  
 This information is not warranted for accuracy or other purposes.  
 Data obtained from the State of Indiana GIO Library.  
 Orthophotography obtained from Indiana Map Framework Data.

State of Indiana



**Aerial Map 3 of 9**



Location: Kennedy Avenue  
 Township: North  
 County: Lake

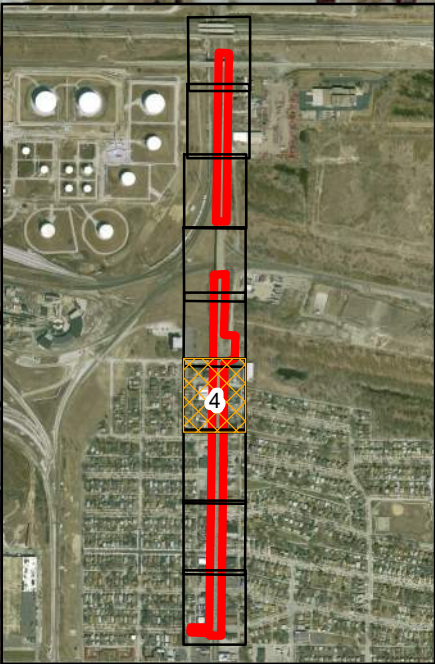


Aerial Map  
 Kennedy Avenue: Roadway Project  
 Des. No. 1901902  
 Lake County, Indiana



KENNEDY AV

GIBSON PL



**Legend**

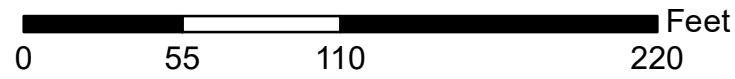
- Project Area
- Active Map Extent
- Map Extents
- Bioretention Systems
- Construction Limits
- Design

Map Datum: NAD 83  
 Map Projection: UTM Zone 16 North  
 This map is intended to serve as an aid in graphic representation only.  
 This information is not warranted for accuracy or other purposes.  
 Data obtained from the State of Indiana GIO Library.  
 Orthophotography obtained from Indiana Map Framework Data.

State of Indiana



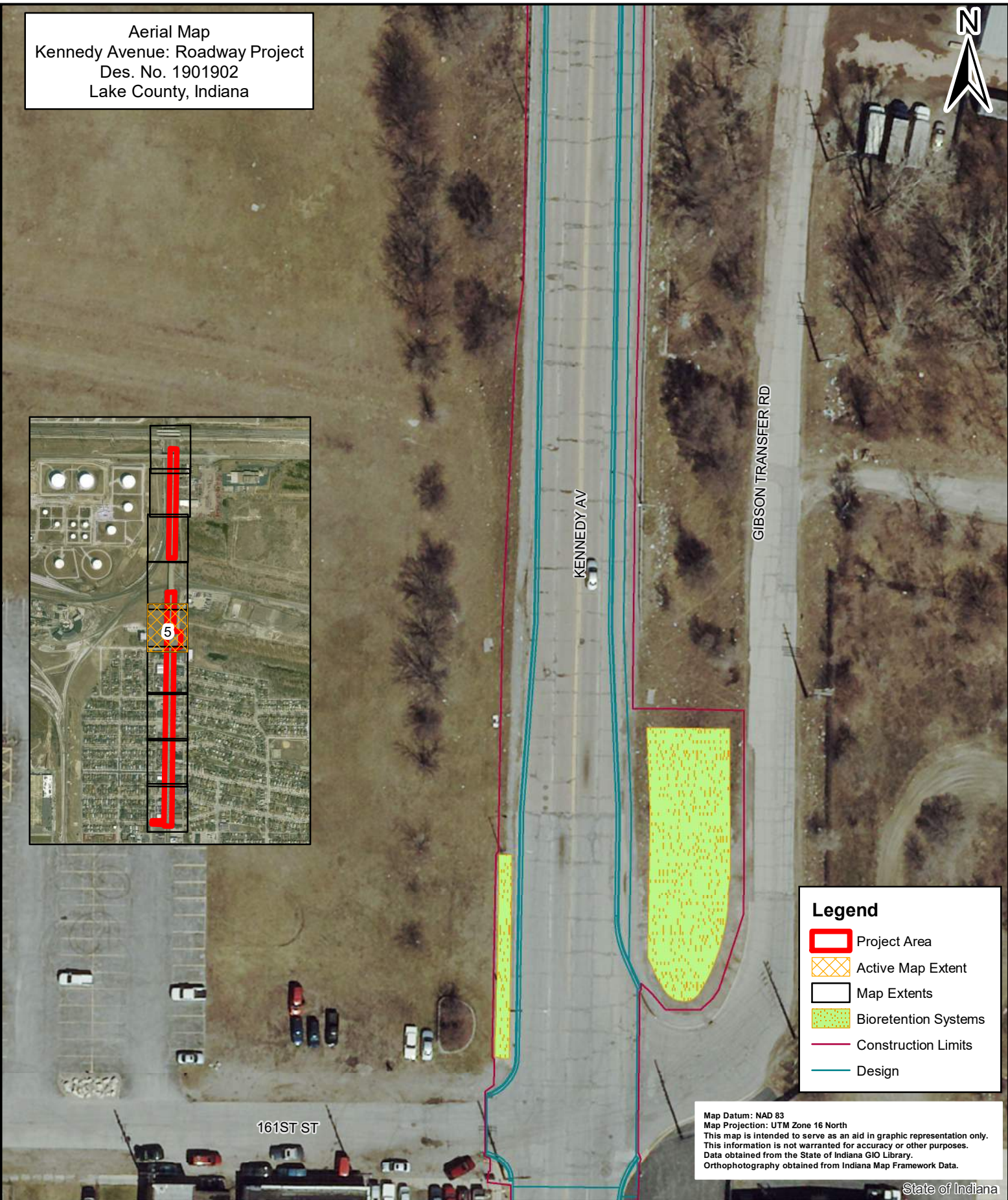
**Aerial Map 4 of 9**



Location: Kennedy Avenue  
 Township: North  
 County: Lake



Aerial Map  
 Kennedy Avenue: Roadway Project  
 Des. No. 1901902  
 Lake County, Indiana



**Legend**

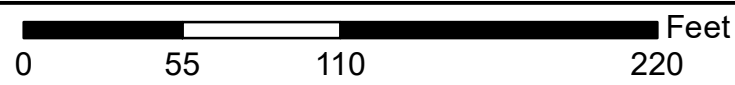
- Project Area
- Active Map Extent
- Map Extents
- Bioretention Systems
- Construction Limits
- Design

Map Datum: NAD 83  
 Map Projection: UTM Zone 16 North  
 This map is intended to serve as an aid in graphic representation only.  
 This information is not warranted for accuracy or other purposes.  
 Data obtained from the State of Indiana GIO Library.  
 Orthophotography obtained from Indiana Map Framework Data.

State of Indiana



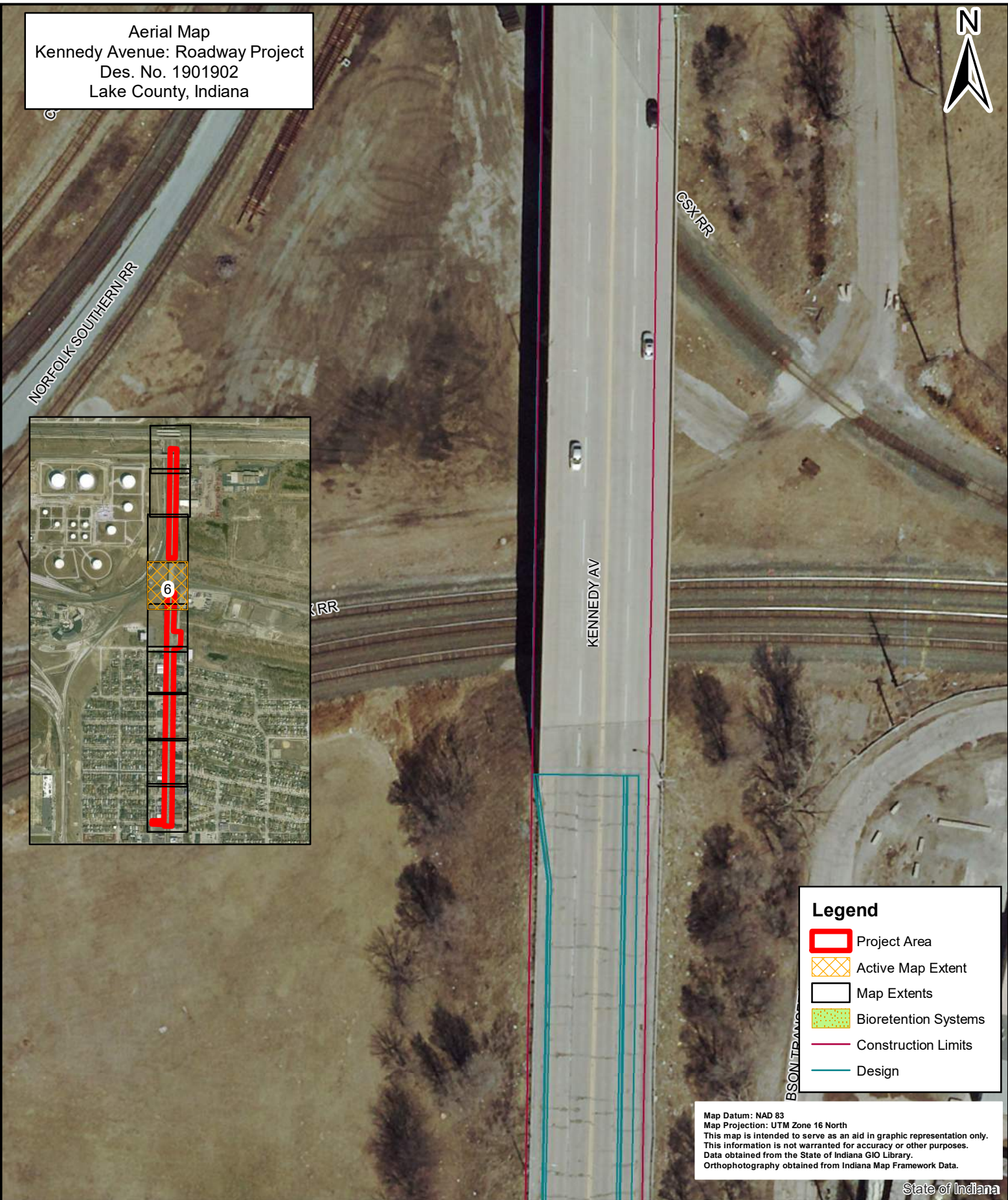
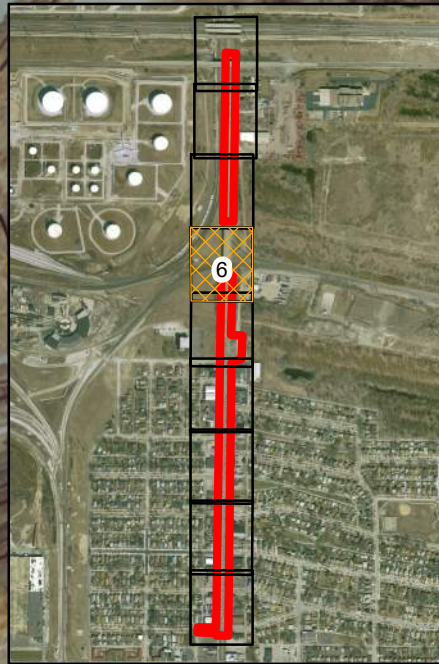
Aerial Map 5 of 9



Location: Kennedy Avenue  
 Township: North  
 County: Lake



Aerial Map  
 Kennedy Avenue: Roadway Project  
 Des. No. 1901902  
 Lake County, Indiana



**Legend**

- Project Area
- Active Map Extent
- Map Extents
- Bioretention Systems
- Construction Limits
- Design

Map Datum: NAD 83  
 Map Projection: UTM Zone 16 North  
 This map is intended to serve as an aid in graphic representation only.  
 This information is not warranted for accuracy or other purposes.  
 Data obtained from the State of Indiana GIO Library.  
 Orthophotography obtained from Indiana Map Framework Data.

State of Indiana



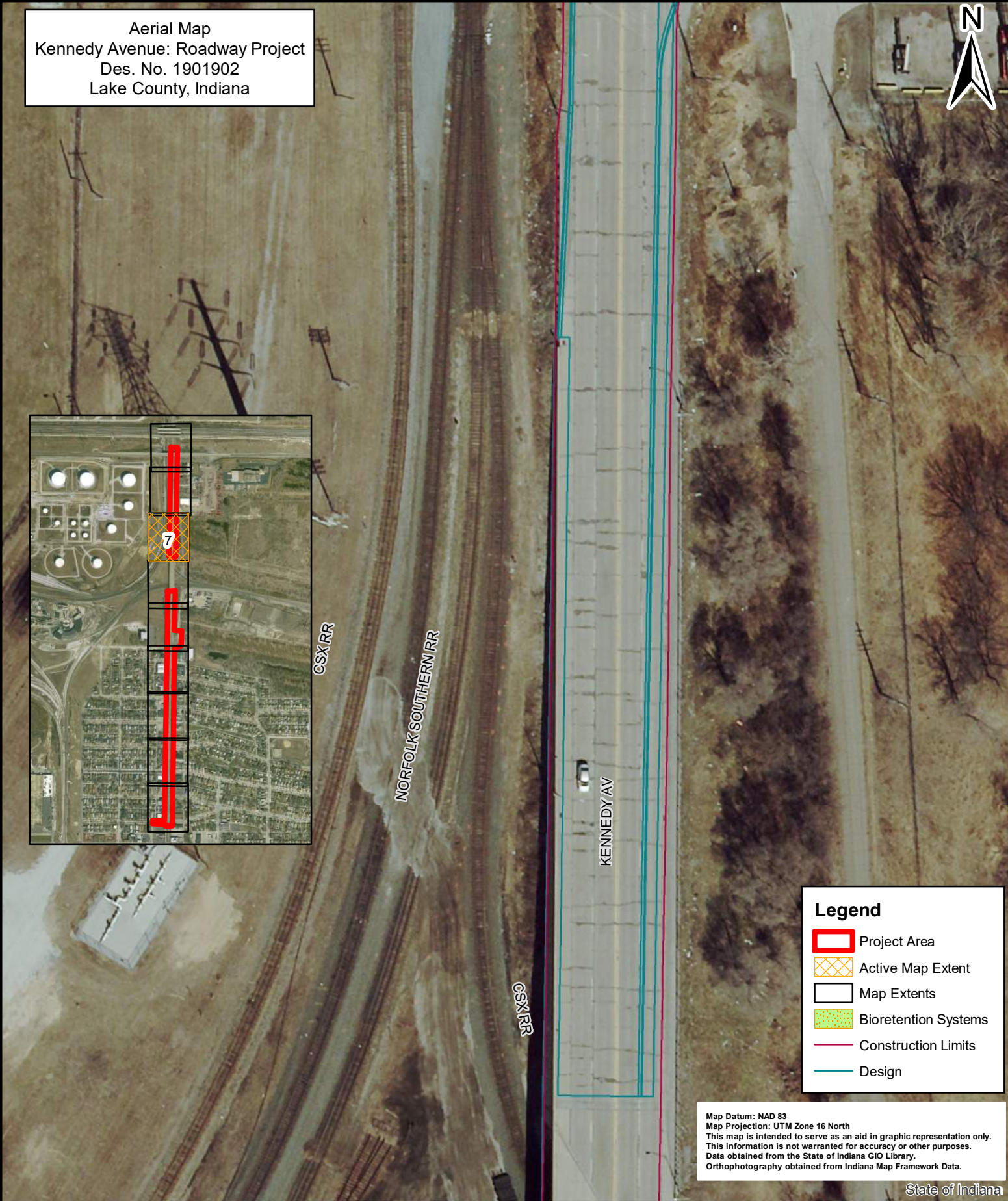
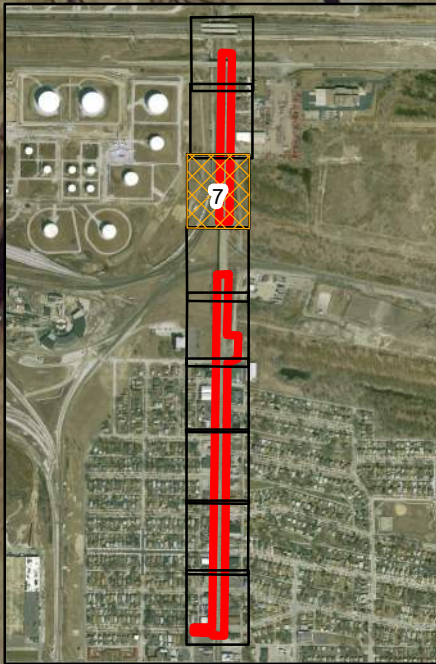
**Aerial Map 6 of 9**

0      55      110      220      Feet

Location: Kennedy Avenue  
 Township: North  
 County: Lake



Aerial Map  
 Kennedy Avenue: Roadway Project  
 Des. No. 1901902  
 Lake County, Indiana



**Legend**

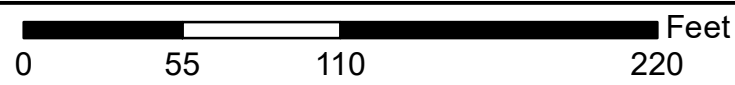
-  Project Area
-  Active Map Extent
-  Map Extents
-  Bioretention Systems
-  Construction Limits
-  Design

Map Datum: NAD 83  
 Map Projection: UTM Zone 16 North  
 This map is intended to serve as an aid in graphic representation only.  
 This information is not warranted for accuracy or other purposes.  
 Data obtained from the State of Indiana GIO Library.  
 Orthophotography obtained from Indiana Map Framework Data.

State of Indiana



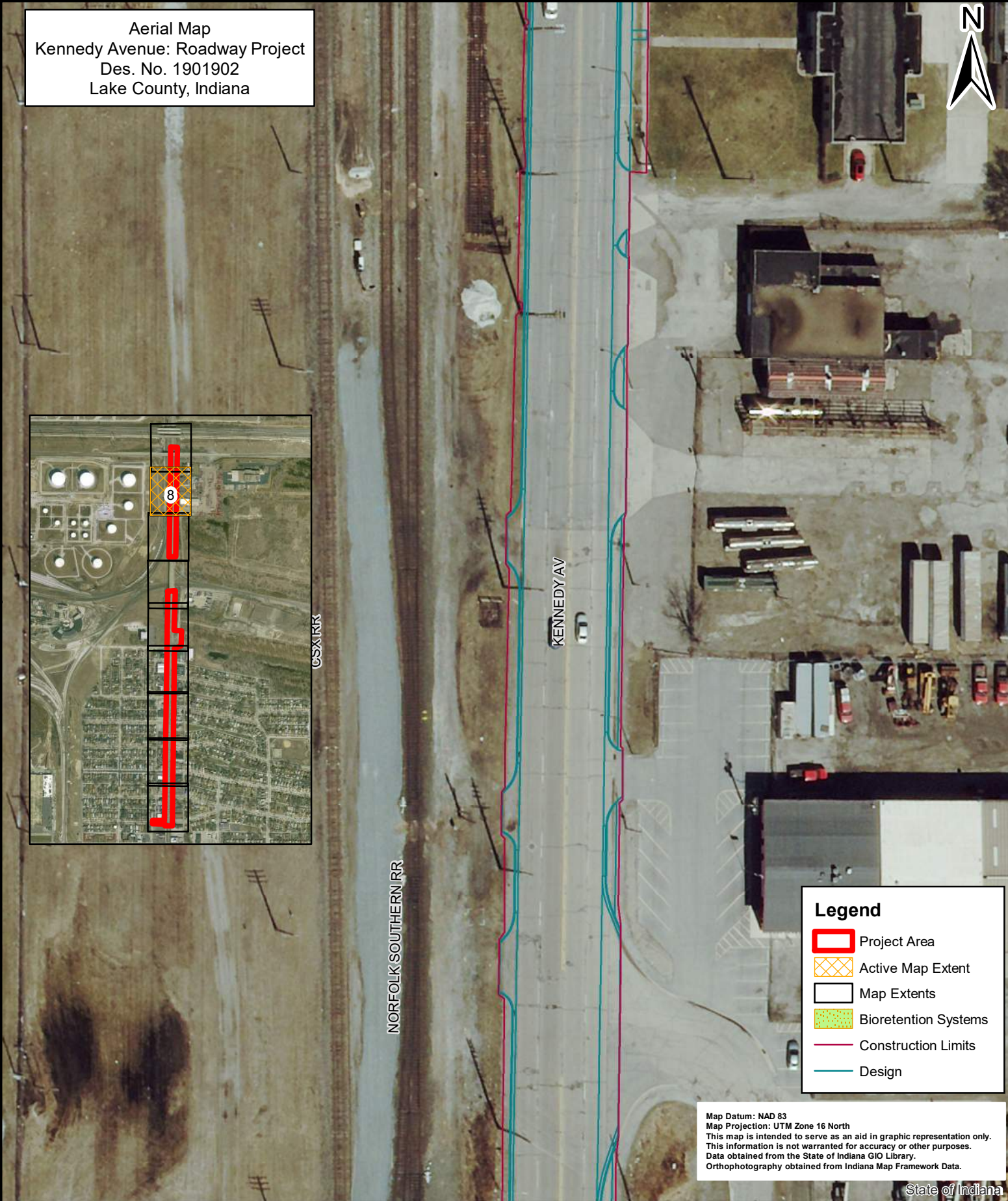
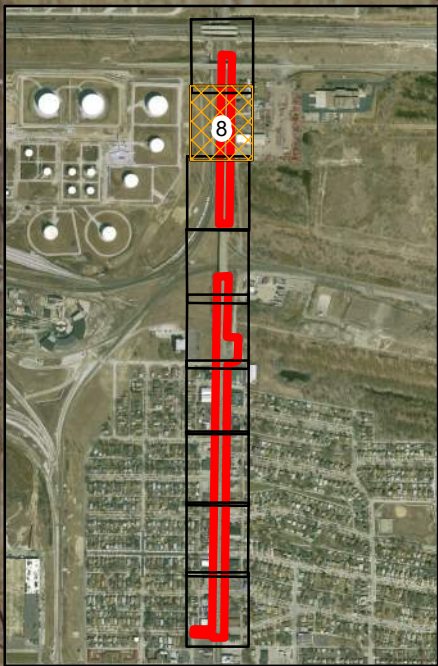
Aerial Map 7 of 9



Location: Kennedy Avenue  
 Township: North  
 County: Lake



Aerial Map  
 Kennedy Avenue: Roadway Project  
 Des. No. 1901902  
 Lake County, Indiana



**Legend**

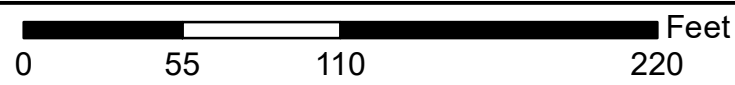
- Project Area
- Active Map Extent
- Map Extents
- Bioretention Systems
- Construction Limits
- Design

Map Datum: NAD 83  
 Map Projection: UTM Zone 16 North  
 This map is intended to serve as an aid in graphic representation only.  
 This information is not warranted for accuracy or other purposes.  
 Data obtained from the State of Indiana GIO Library.  
 Orthophotography obtained from Indiana Map Framework Data.

State of Indiana



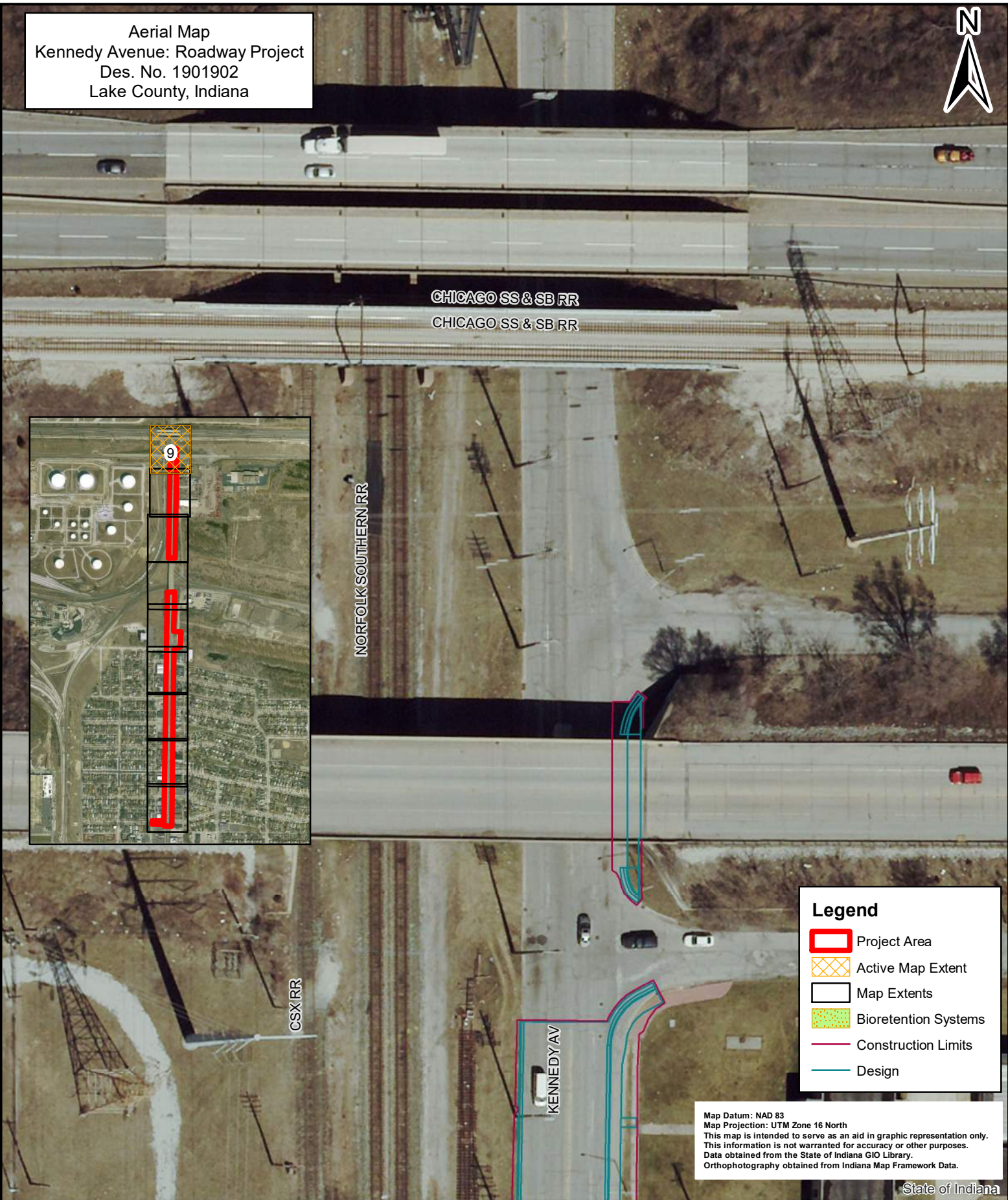
Aerial Map 8 of 9



Location: Kennedy Avenue  
 Township: North  
 County: Lake



Aerial Map  
 Kennedy Avenue: Roadway Project  
 Des. No. 1901902  
 Lake County, Indiana



**Legend**

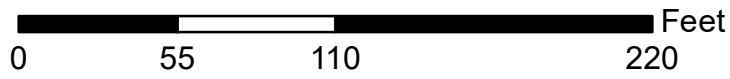
- Project Area
- Active Map Extent
- Map Extents
- Bioretention Systems
- Construction Limits
- Design

Map Datum: NAD 83  
 Map Projection: UTM Zone 16 North  
 This map is intended to serve as an aid in graphic representation only.  
 This information is not warranted for accuracy or other purposes.  
 Data obtained from the State of Indiana GIO Library.  
 Orthophotography obtained from Indiana Map Framework Data.

State of Indiana



Aerial Map 9 of 9



Location: Kennedy Avenue  
 Township: North  
 County: Lake



Photo Location Map  
 Kennedy Avenue: Roadway Project  
 Des. No. 1901902  
 Lake County, Indiana

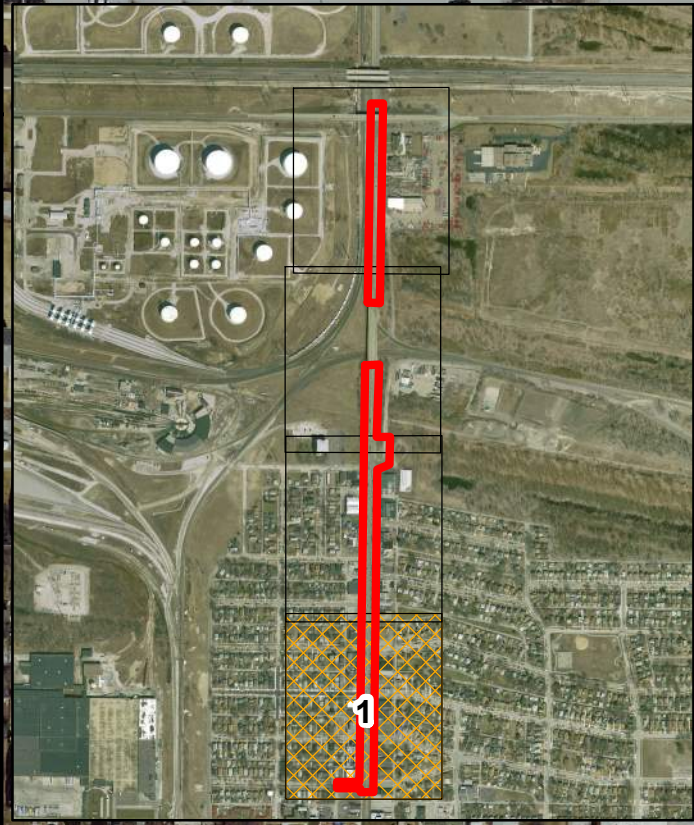


KENWOOD ST

163RD PL

164TH PL

KENNEDY AV



- 17
- 16
- 15
- 14
- 13
- 12
- 11
- 10
- 9
- 8
- 7
- 6
- 5
- 4
- 3
- 2
- 1

**Legend**

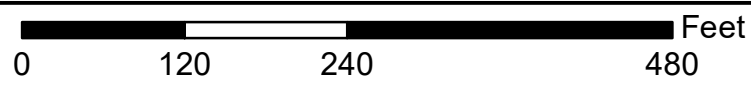
- Project Area
- Photo Points
- Photo Extent
- Active Extent

Map Datum: NAD 83  
 Map Projection: UTM Zone 16 North  
 This map is intended to serve as an aid in graphic representation only.  
 This information is not warranted for accuracy or other purposes.  
 Data obtained from the State of Indiana GIO Library.  
 Orthophotography obtained from Indiana Map Framework Data.

State of Indiana



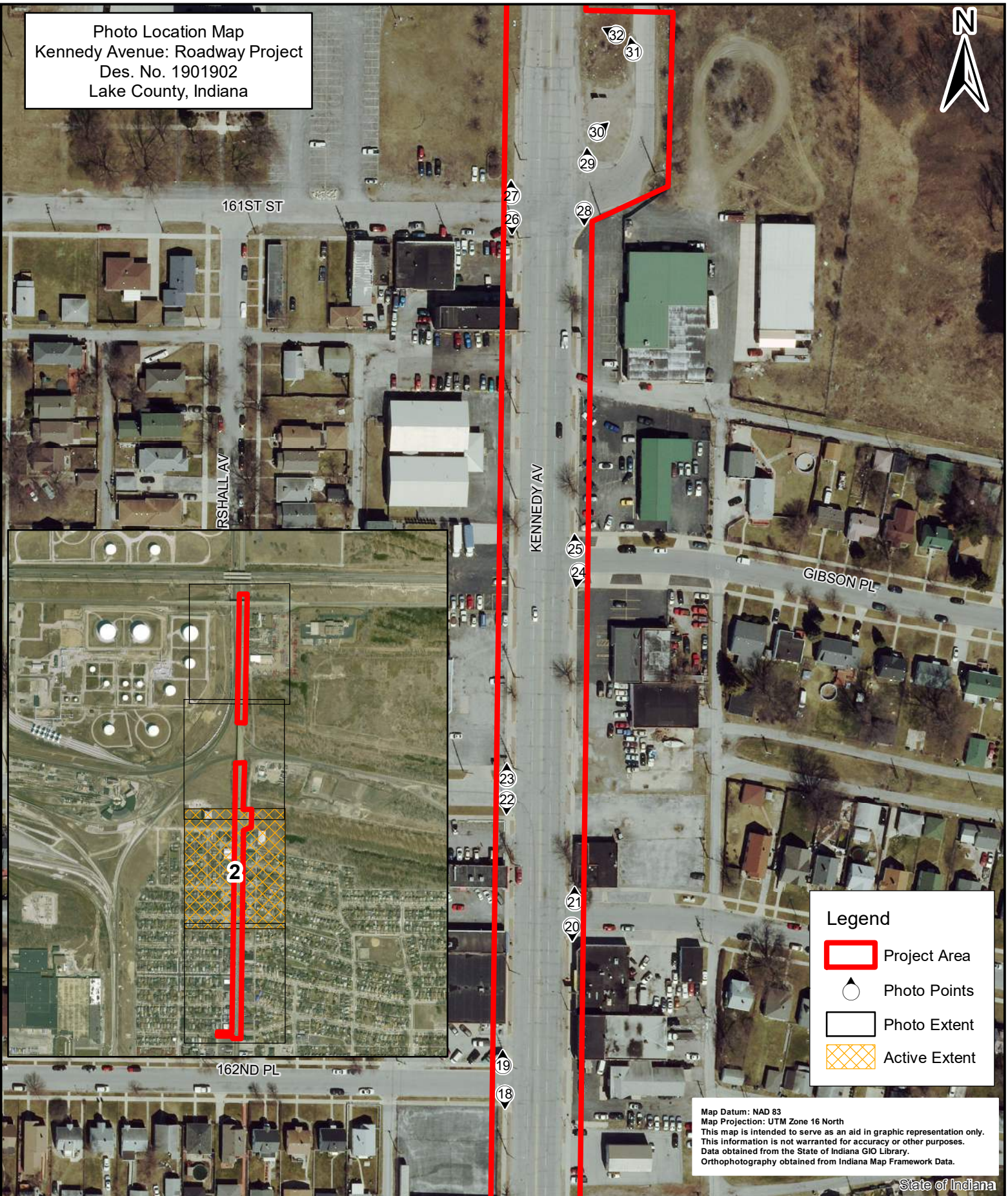
Photo Location Map 1 of 4



Location: Kennedy Avenue  
 Township: North  
 County: Lake



Photo Location Map  
 Kennedy Avenue: Roadway Project  
 Des. No. 1901902  
 Lake County, Indiana

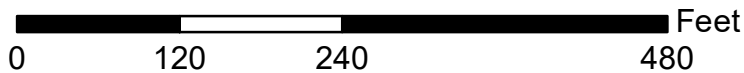


Map Datum: NAD 83  
 Map Projection: UTM Zone 16 North  
 This map is intended to serve as an aid in graphic representation only.  
 This information is not warranted for accuracy or other purposes.  
 Data obtained from the State of Indiana GIO Library.  
 Orthophotography obtained from Indiana Map Framework Data.

State of Indiana



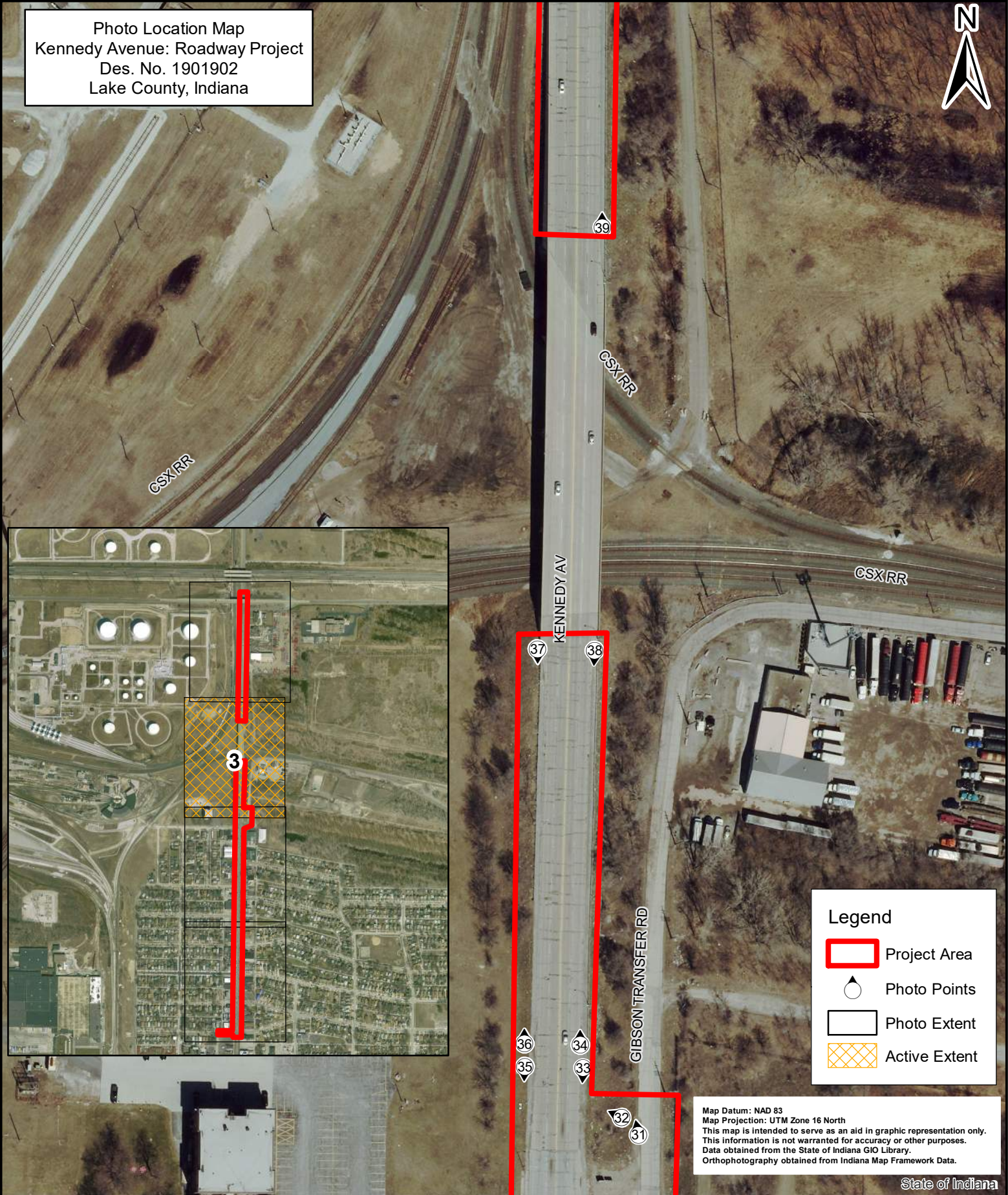
### Photo Location Map 2 of 4



Location: Kennedy Avenue  
 Township: North  
 County: Lake



Photo Location Map  
 Kennedy Avenue: Roadway Project  
 Des. No. 1901902  
 Lake County, Indiana



**Legend**

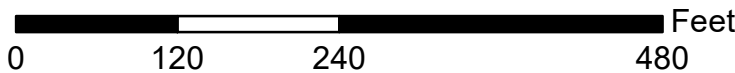
- Project Area
- Photo Points
- Photo Extent
- Active Extent

Map Datum: NAD 83  
 Map Projection: UTM Zone 16 North  
 This map is intended to serve as an aid in graphic representation only.  
 This information is not warranted for accuracy or other purposes.  
 Data obtained from the State of Indiana GIO Library.  
 Orthophotography obtained from Indiana Map Framework Data.

State of Indiana



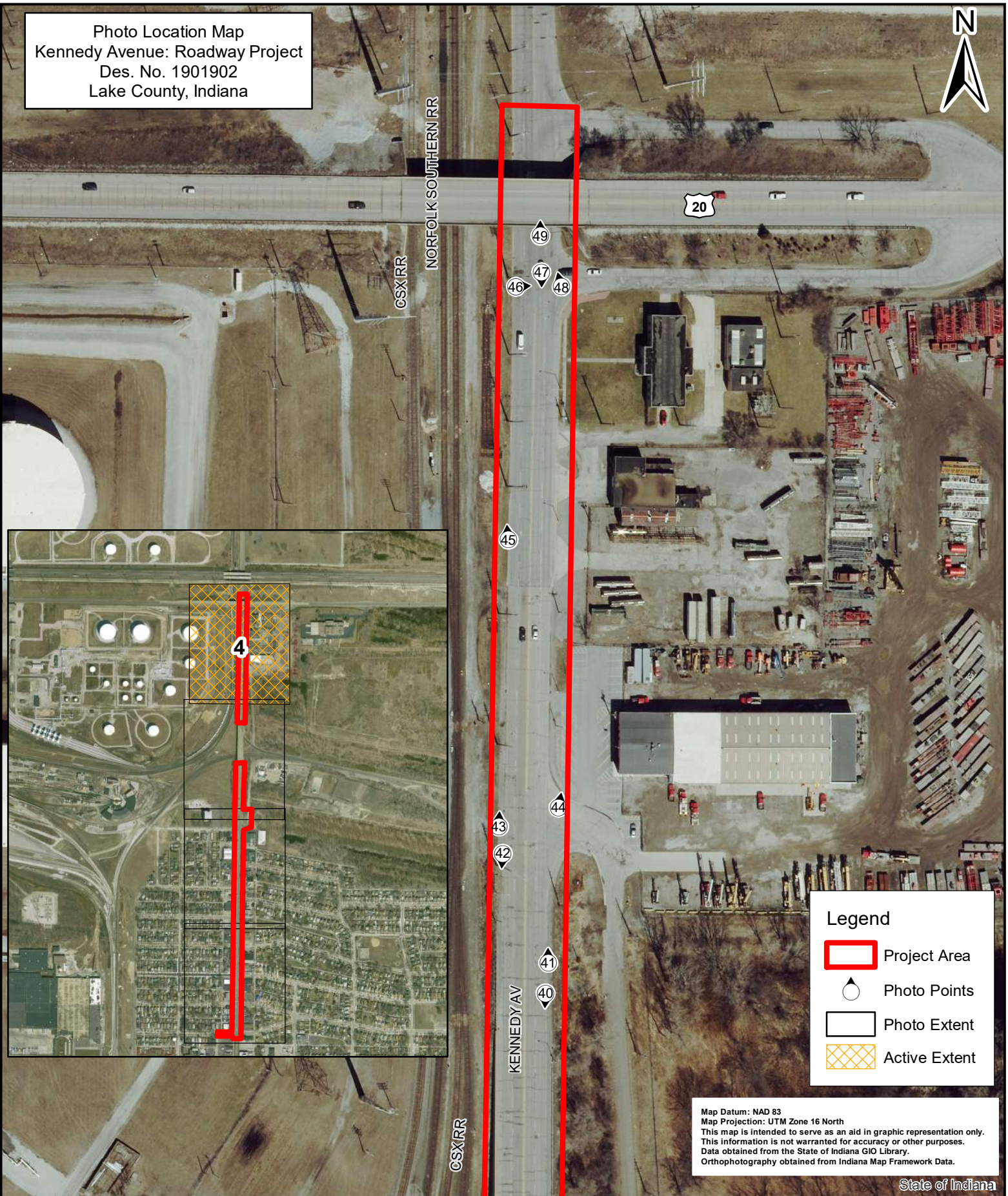
Photo Location Map 3 of 4



Location: Kennedy Avenue  
 Township: North  
 County: Lake



Photo Location Map  
 Kennedy Avenue: Roadway Project  
 Des. No. 1901902  
 Lake County, Indiana

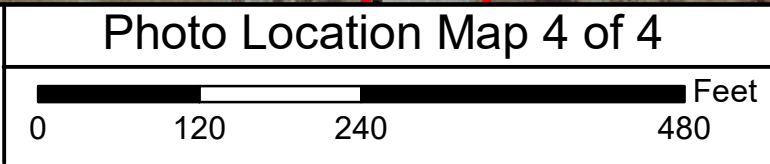


**Legend**

- Project Area
- Photo Points
- Photo Extent
- Active Extent

Map Datum: NAD 83  
 Map Projection: UTM Zone 16 North  
 This map is intended to serve as an aid in graphic representation only.  
 This information is not warranted for accuracy or other purposes.  
 Data obtained from the State of Indiana GIO Library.  
 Orthophotography obtained from Indiana Map Framework Data.

State of Indiana



Location: Kennedy Avenue  
 Township: North  
 County: Lake





1. Looking east along the south side of 164<sup>th</sup> Pl. toward Kennedy Ave.

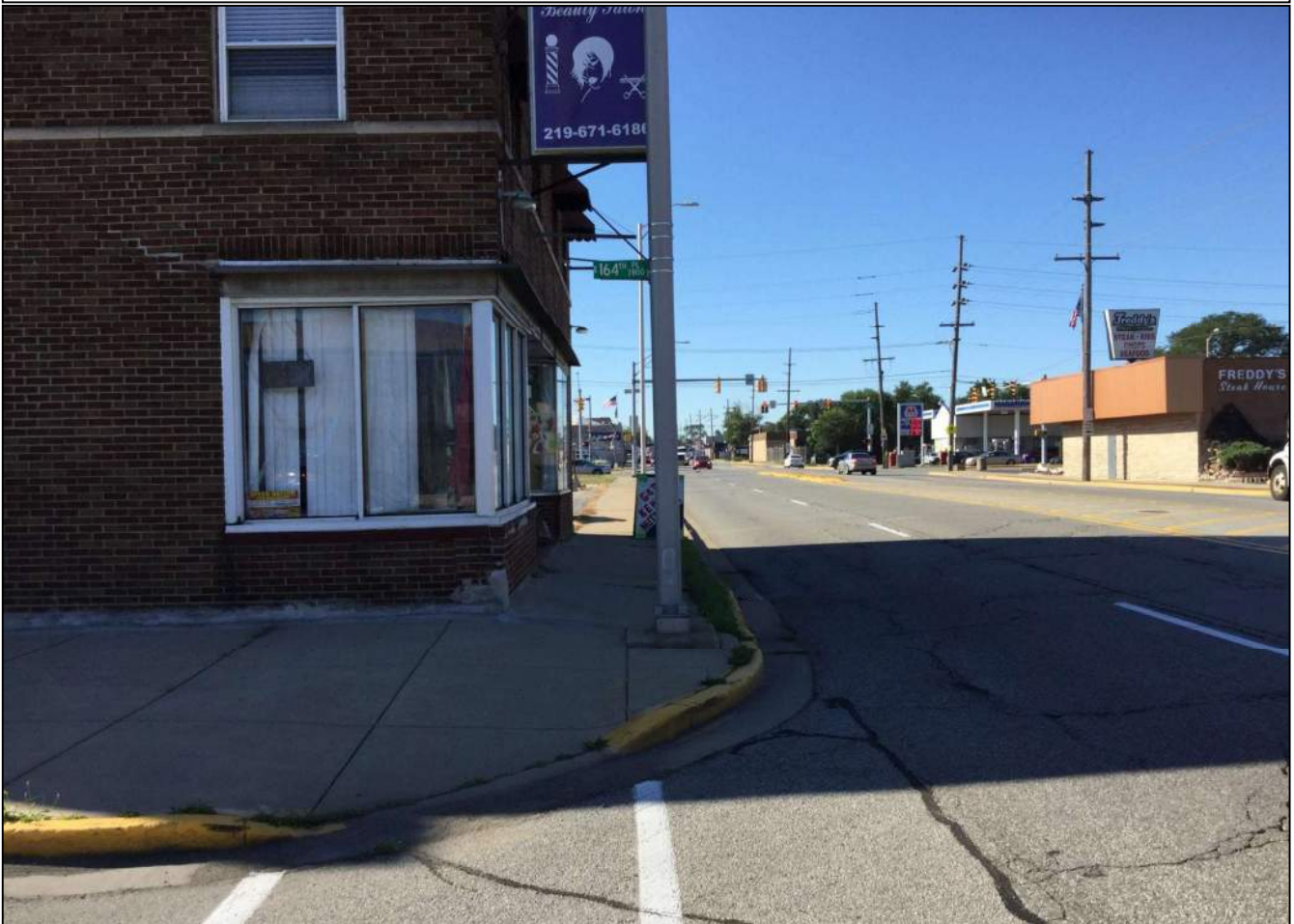


2. Looking south along the west side of Kennedy Ave. and sidewalk from the 164<sup>th</sup> Pl. and Kennedy Ave. intersection.





3. Looking north along the west side of Kennedy Ave. and sidewalk from the 164<sup>th</sup> Pl. and Kennedy Ave. intersection.



4. Looking south along the east side of Kennedy Ave. and sidewalk from the 164<sup>th</sup> Pl. and Kennedy Ave. intersection.





5. Looking north along the east side of Kennedy Ave. and sidewalk from the 164<sup>th</sup> Pl. and Kennedy Ave. intersection.



6. Looking south along the east side of Kennedy Ave. and sidewalk from the Cleveland St. and Kennedy Ave. intersection.



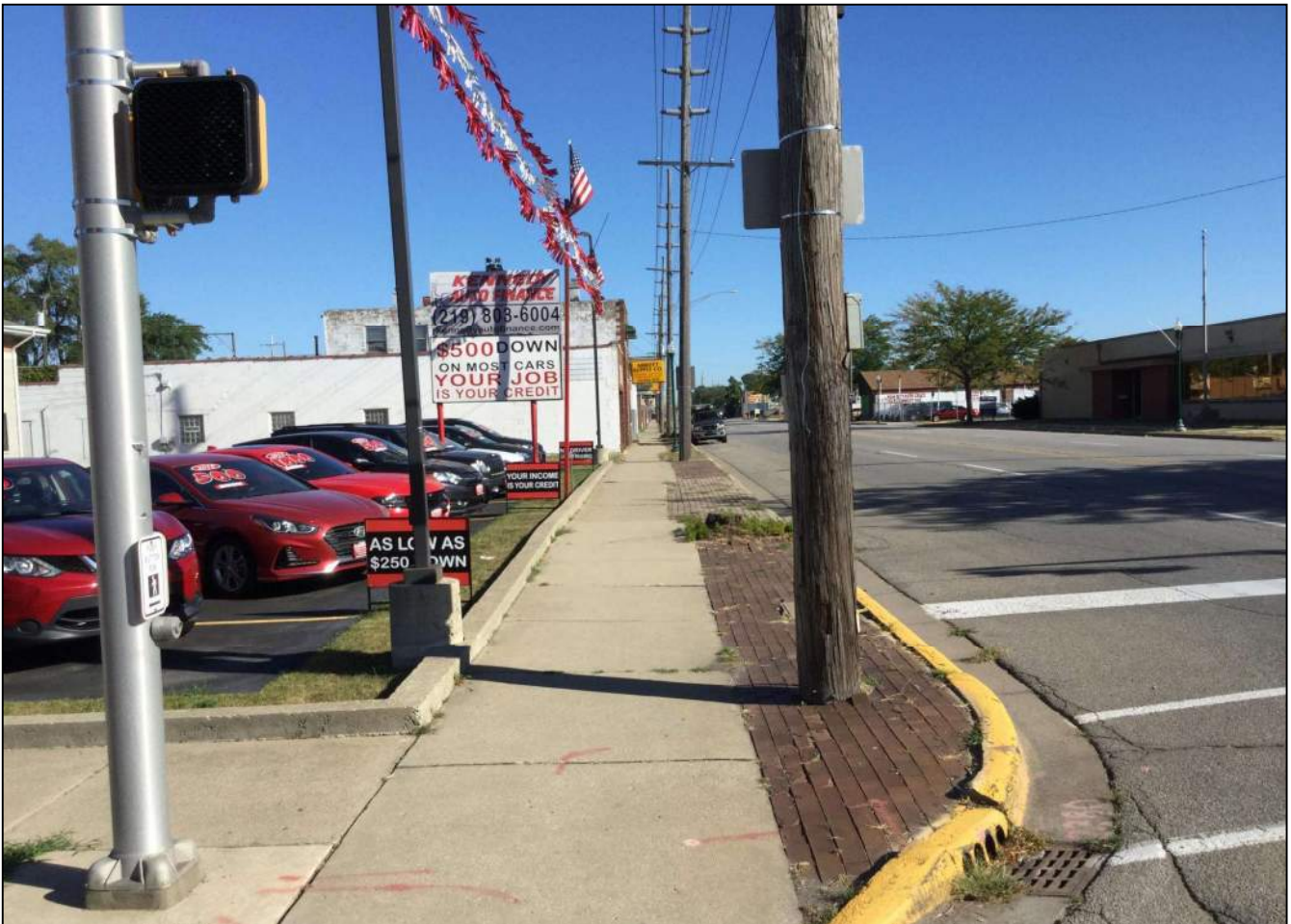


7. Looking north along the east side of Kennedy Ave. and sidewalk from the Cleveland St. and Kennedy Ave. intersection.



8. Looking south along the west side of Kennedy Ave. and sidewalk from the Cleveland St. and Kennedy Ave. intersection.



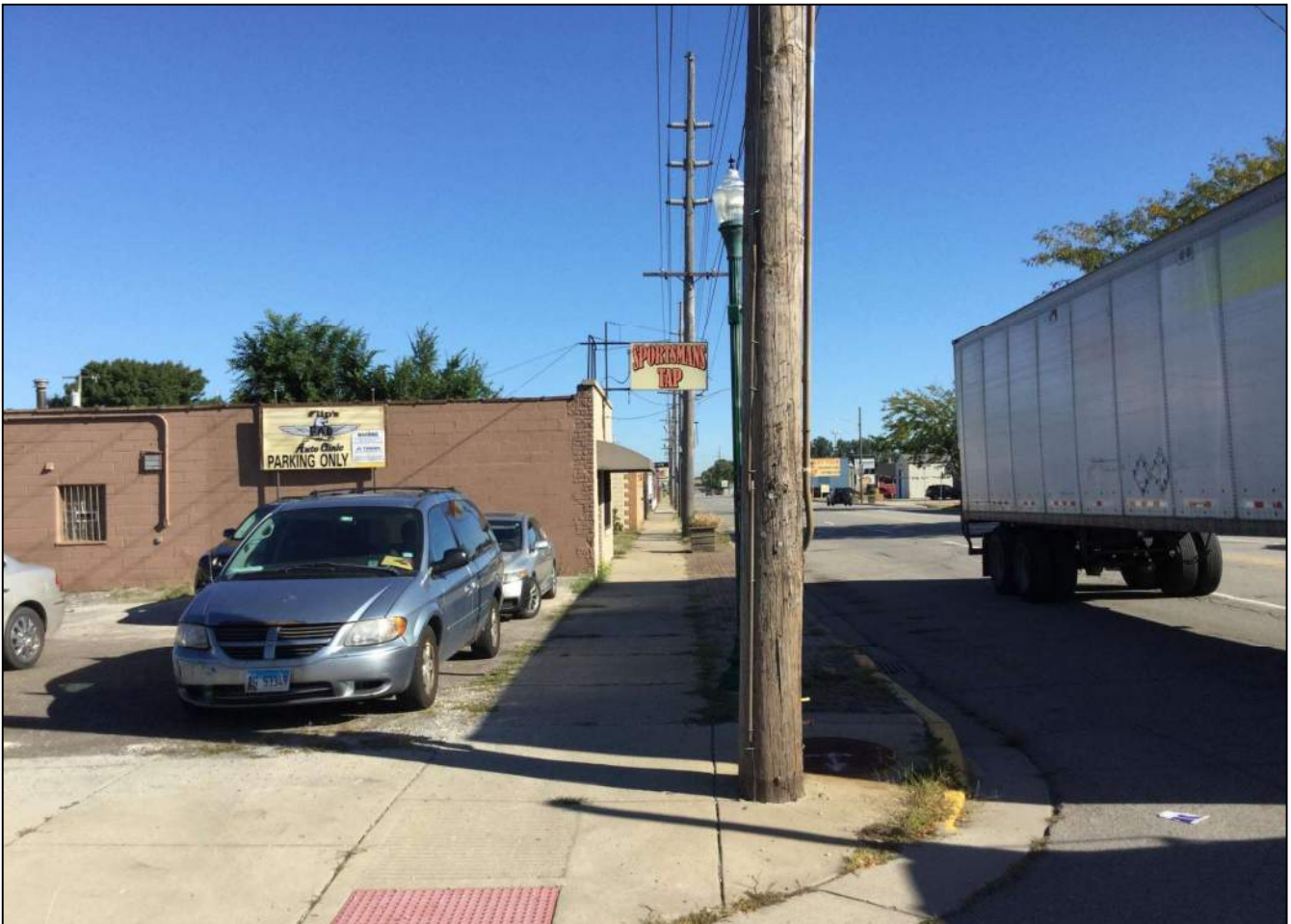


9. Looking north along the west side of Kennedy Ave. and sidewalk from the Cleveland St. and Kennedy Ave. intersection.



10. Looking south along the west side of Kennedy Ave. and sidewalk from the 163<sup>rd</sup> Pl. and Kennedy Ave. intersection.



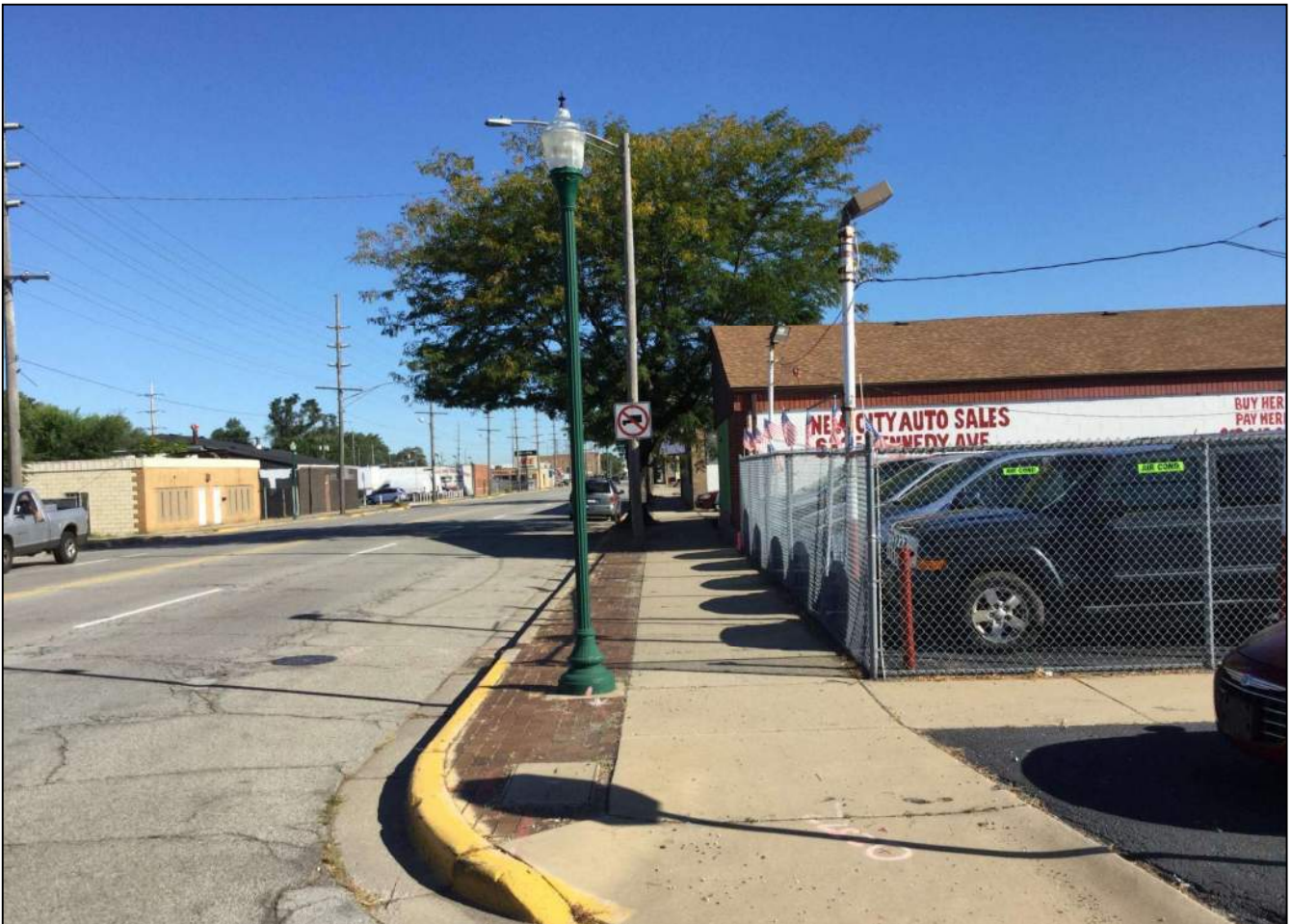


11. Looking north along the west side of Kennedy Ave. and sidewalk from the 163<sup>rd</sup> Pl. and Kennedy Ave. intersection.

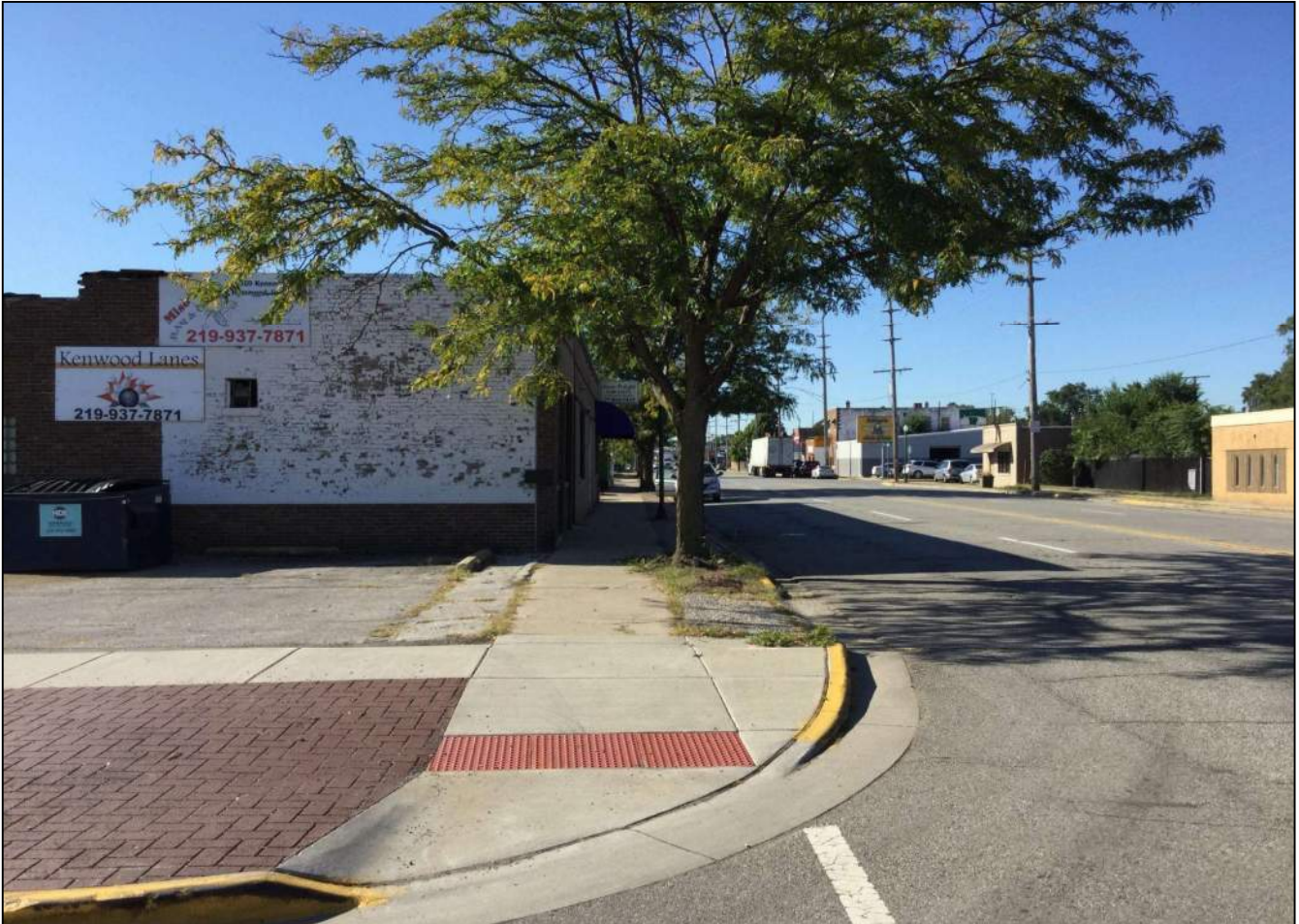


12. Looking south along the east side of Kennedy Ave. and sidewalk from the 163<sup>rd</sup> Pl. and Kennedy Ave. intersection.





13. Looking north along the east side of Kennedy Ave. and sidewalk from the 163rd Pl. and Kennedy Ave. intersection.



14. Looking south along the east side of Kennedy Ave. and sidewalk from the Kenwood St. and Kennedy Ave. intersection.





15. Looking north along the east side of Kennedy Ave. and sidewalk from the Kenwood St. and Kennedy Ave. intersection.



16. Looking south along the west side of Kennedy Ave. and sidewalk from the Kenwood St. and Kennedy Ave. intersection.





17. Looking north along the west side of Kennedy Ave. and sidewalk from the Kenwood St. and Kennedy Ave. intersection.



18. Looking south along the west side of Kennedy Ave. and sidewalk from the 162<sup>nd</sup> Pl. and Kennedy Ave. intersection.





19. Looking north along the west side of Kennedy Ave. and sidewalk from the 162nd Pl. and Kennedy Ave. intersection.

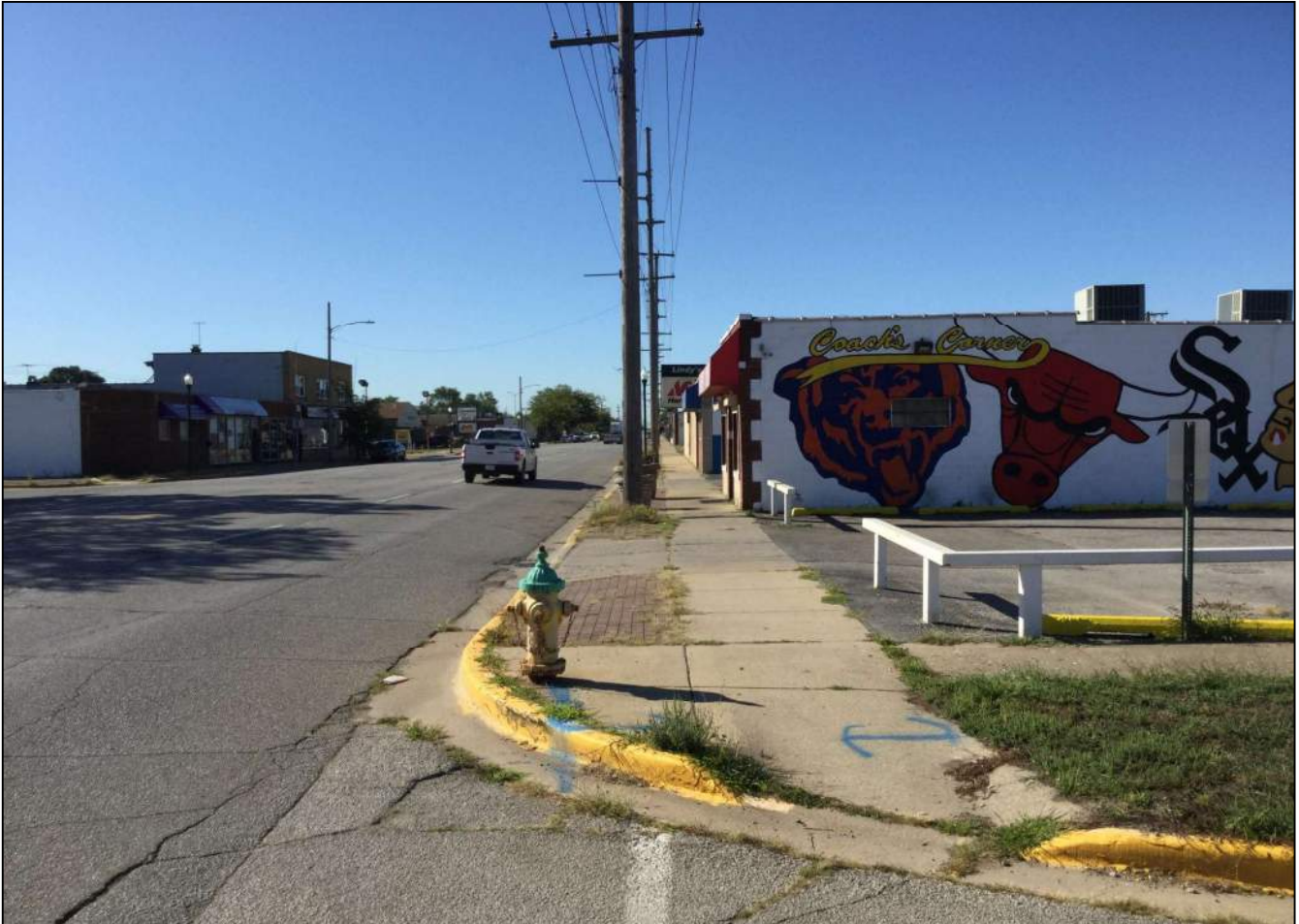


20. Looking south along the east side of Kennedy Ave. and sidewalk from the Janet Pl. and Kennedy Ave. intersection.





21. Looking north along the east side of Kennedy Ave. and sidewalk from the Janet Pl. and Kennedy Ave. intersection.



22. Looking south along the west side of Kennedy Ave. and sidewalk from the 162<sup>nd</sup> St. and Kennedy Ave. intersection.





23. Looking north along the west side of Kennedy Ave. and sidewalk from the 162<sup>nd</sup> St. and Kennedy Ave. intersection.



24. Looking south along the east side of Kennedy Ave. and sidewalk from the Gibson Pl. and Kennedy Ave. intersection.





25. Looking north along the east side of Kennedy Ave. and sidewalk from the Gibson Pl. and Kennedy Ave. intersection.



26. Looking south along the west side of Kennedy Ave. and sidewalk from the 161<sup>st</sup> St. and Kennedy Ave. intersection.





27. Looking north along the west side of Kennedy Ave. and sidewalk from the 161st St. and Kennedy Ave. intersection.



28. Looking south along the east side of Kennedy Ave. and partial sidewalk from the Gibson Transfer Rd. and Kennedy Ave. intersection.





29. Looking north along the east side of Kennedy Ave. from the Gibson Transfer Rd. and Kennedy Ave. intersection.



30. Looking northeast at a gravelled area along the east side of Kennedy Ave. Please note that the Gibson Transfer Rd. can be seen in the background of the photo.





31. Looking north along the west side of Gibson Transfer Road at the surrounding area.



32. Looking northwest from just west of the Gibson Transfer Road at the surrounding area and landscape. Please note that Kennedy Ave. can be seen in the background of the photo.





33. Looking south along the east side of Kennedy Ave. at the V gutter present and gravel shoulder.



34. Looking north along the east side of Kennedy Ave. at the V gutter present and gravel shoulder.



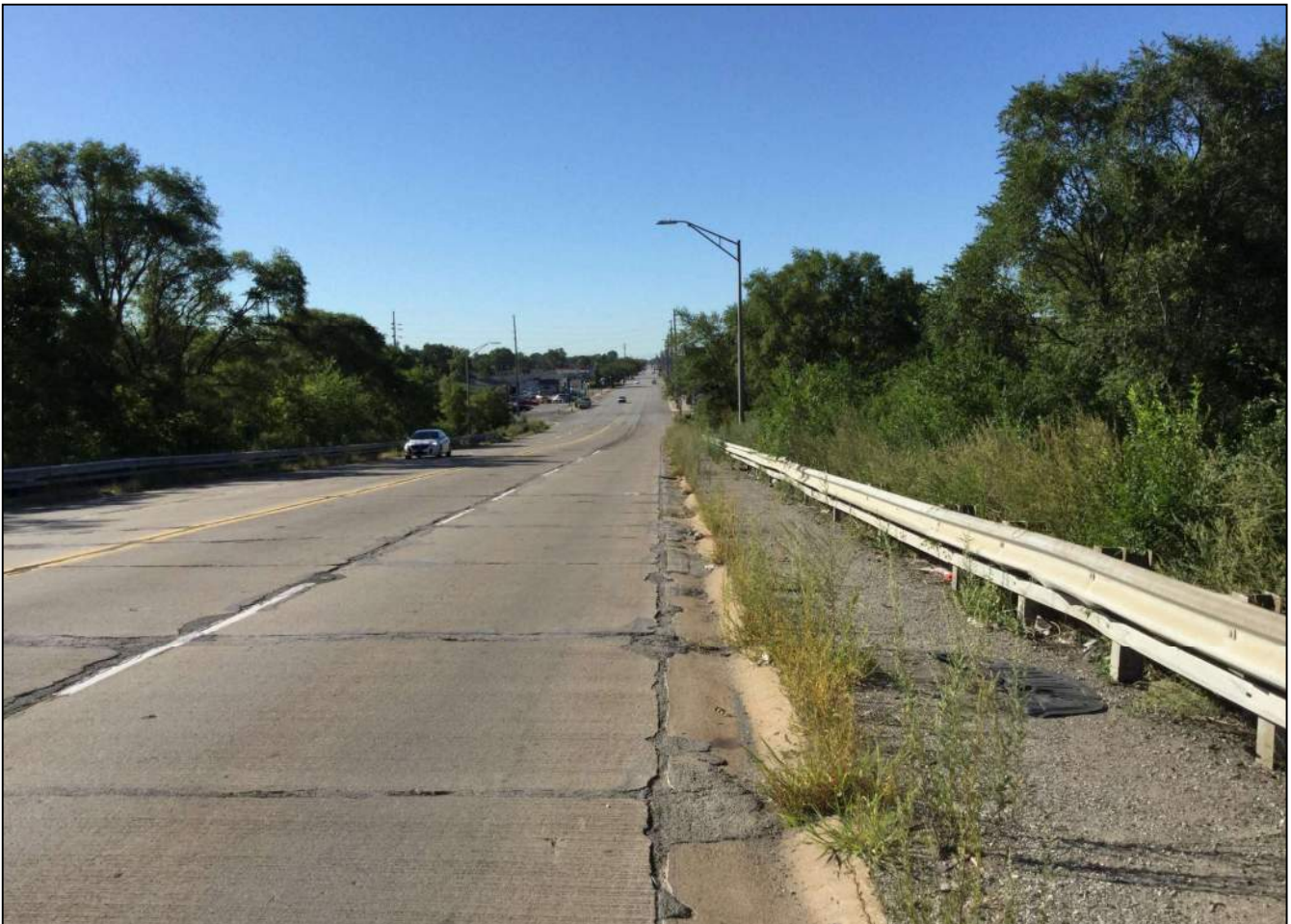


35. Looking south along the west side of Kennedy Ave. at the V gutter present and gravel shoulder.



36. Looking north along the west side of Kennedy Ave. at the V gutter present and gravel shoulder.





37. Looking south along the west side of Kennedy Ave. just south of County Bridge exempted from the project.



38. Looking south along the east side of Kennedy Ave. just south of County Bridge exempted from the project.





39. Looking north along the east side of Kennedy Ave. just north of County Bridge exempted from the project.



40. Looking south along the east side of Kennedy Ave. north of County Bridge exempted from the project.



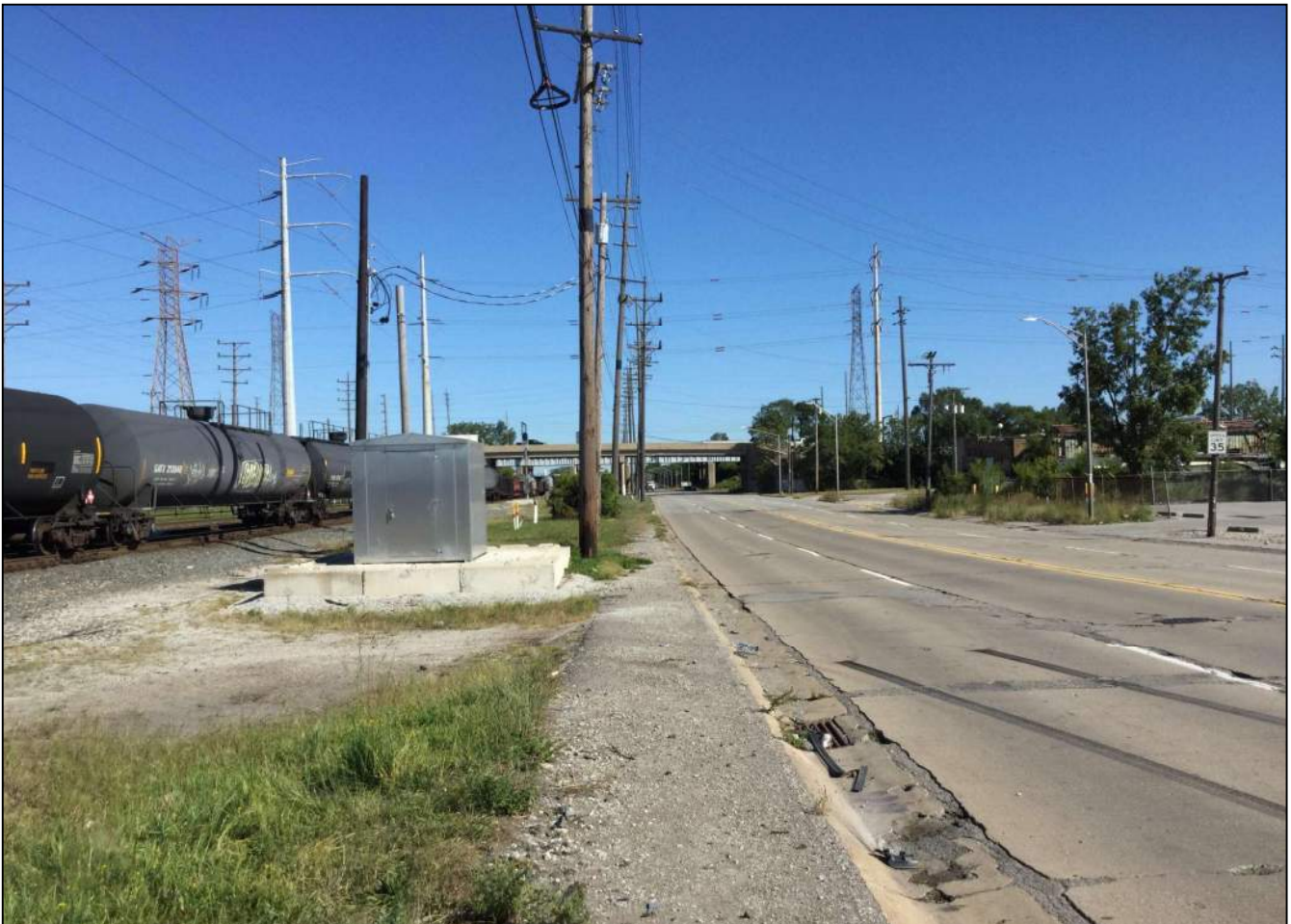


41. Looking north along the east side of Kennedy Ave.



42. Looking south along the west side of Kennedy Ave.





43. Looking north along the west side of Kennedy Ave.



44. Looking north along the east side of Kennedy Ave. from an unnamed drive.





45. Looking north along the west side of Kennedy Ave.



46. Looking east from the west side of Kennedy Ave. at the south access road for US20/Michigan St.





47. Looking south down the center of Kennedy Ave. just west of the south access road for US20/Michigan St.



48. Looking northwest from the intersection of the south access road for US 20/Michigan St. at the northern end of the project.



49. Looking north up the center of Kennedy Ave. at the northern end of the project area.



PROJECT	DESIGNATION
1901902	1901902
CONTRACT	
R-42312	

## HAMMOND, INDIANA

Dean Button City Engineer  
Employee in Responsible Charge

Mark Gordish Assistant City Engineer  
Employee in Responsible Charge

### CITY OF HAMMOND OFFICIALS

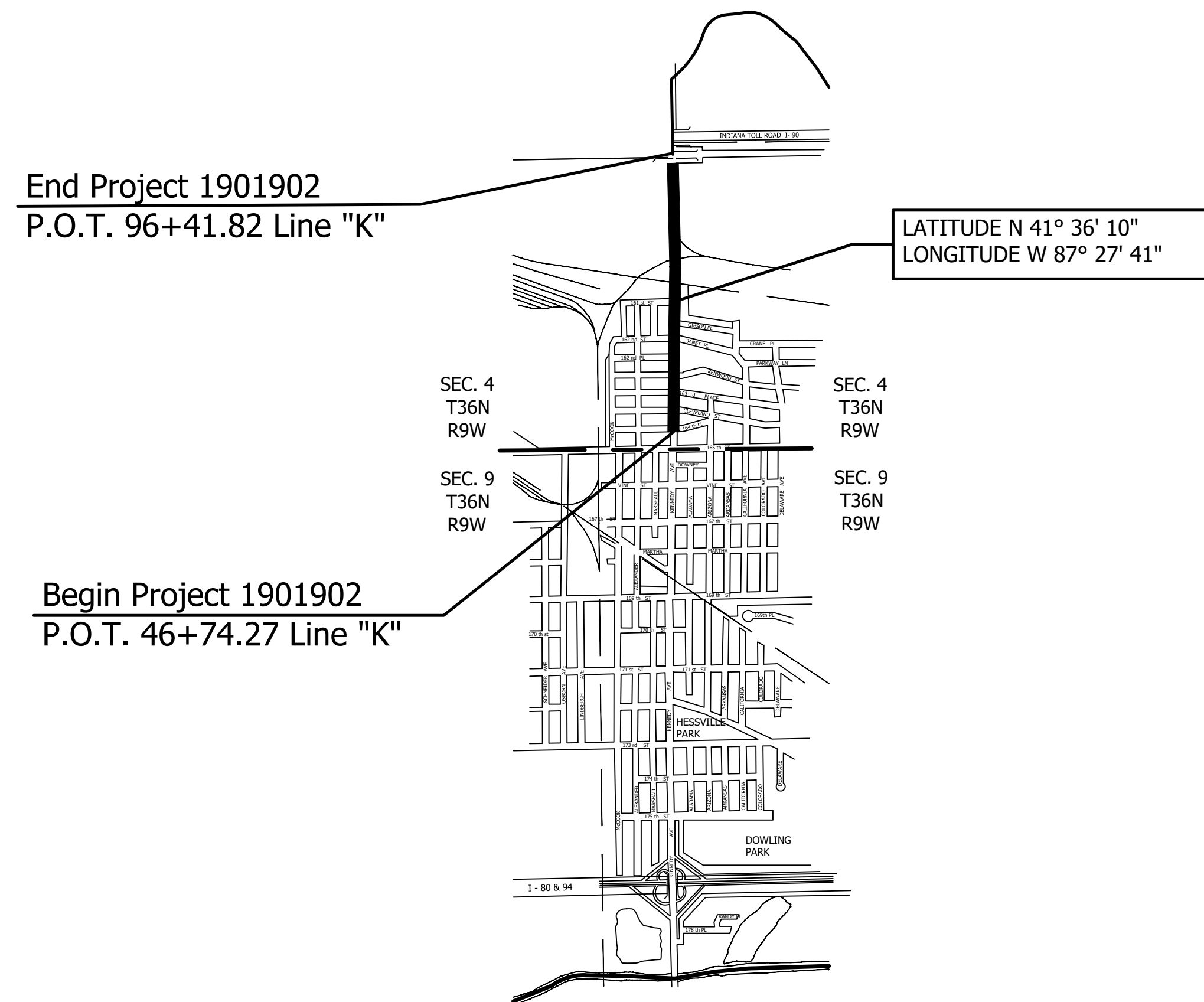
Thomas McDermott, Jr. Mayor  
Kevin Margraf Board of Public Works President  
Jeffery Long Board of Public Works Vice President  
Johnny Perez Board of Public Works Member

# INDIANA DEPARTMENT OF TRANSPORTATION

# KENNEDY AVE. ROAD DIET PROJECT NO. 1901902

This Road Diet Project Begins at the south approach of 164th Place on Kennedy Ave. and Continues North Approx. 4,968 Feet (0.94 Miles) to the south access road for US 20 Michigan St., In The City Of Hammond, Indiana.

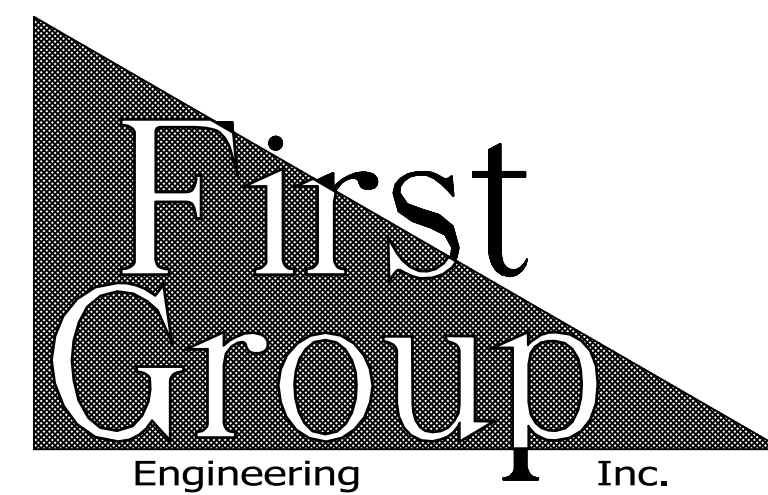
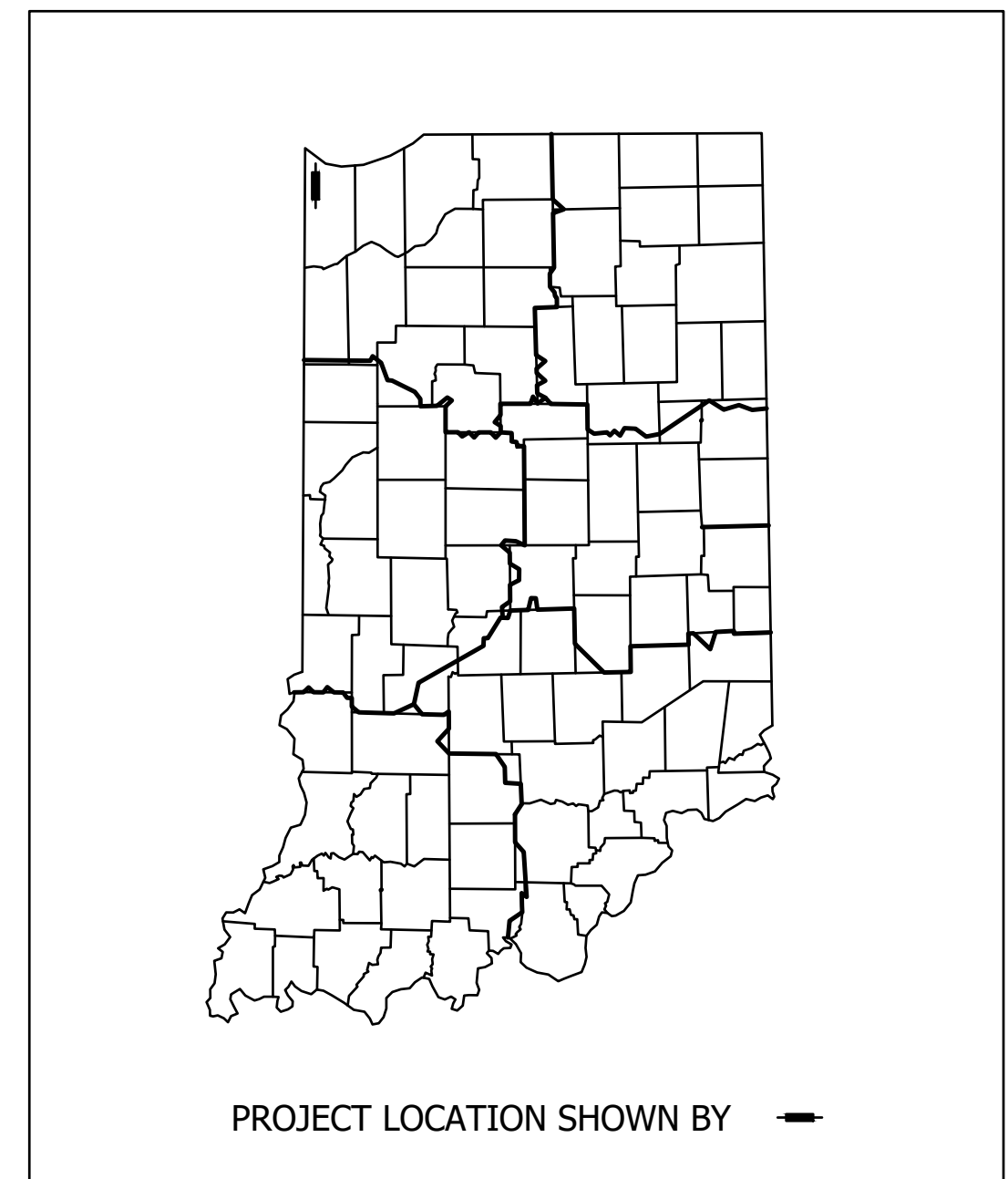
Gross Length: 4,967.55 Ft. (0.94 Mi.)      Max. Grade: X.XX%  
Net Length: 4,967.55 Ft. (0.94 Mi.)



CITY OF HAMMOND  
SEC. 4, T36N, R9W  
NORTH TOWNSHIP, LAKE COUNTY  
LAT. 41°36'10" N, LONG. 87°27'41" W

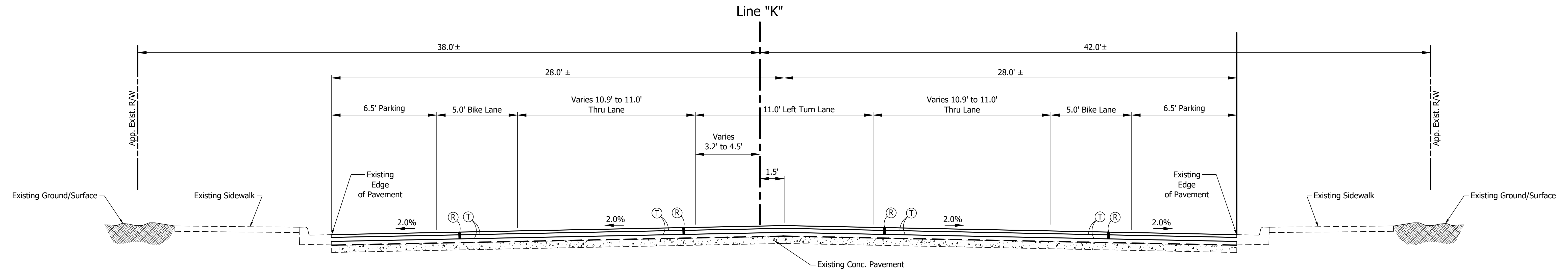
TRAFFIC DATA		
A.A.D.T. (2023)	13,620	V.P.D.
A.A.D.T. (2043)	16,619	V.P.D.
D.H.V. (2043)	1,690	V.P.H.
DIRECTIONAL DISTRIBUTION	50% - 50%	
TRUCKS	1 % D.H.V.	

DESIGN DATA	
DESIGN SPEED	35 M.P.H.
PROJECT DESIGN CRITERIA	I.D.M. CH. 55-3F
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL
RURAL/URBAN	URBAN (BUILT UP)
TERRAIN	LEVEL
ACCESS CONTROL	NONE

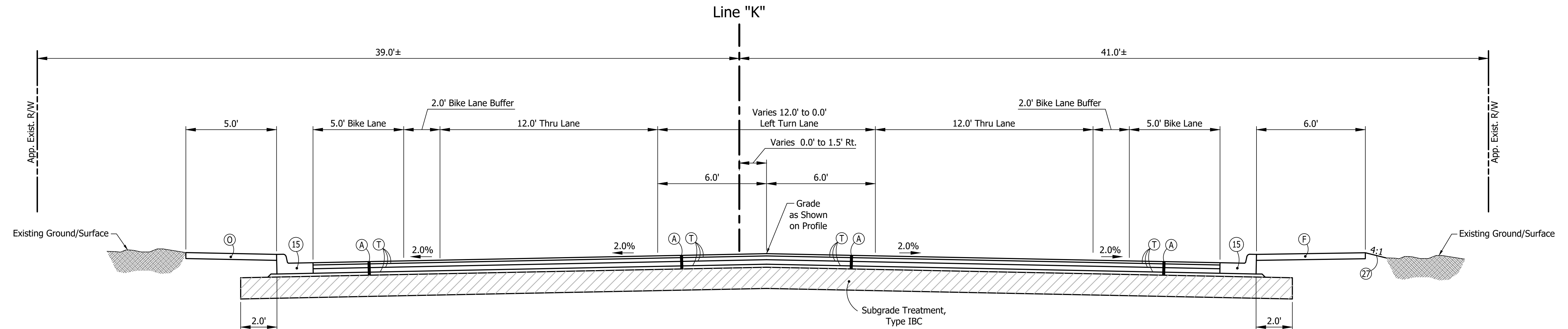


Indiana Department Of Transportation  
Standard Specifications Dated 2022  
Standards Are To Be Used With These Plans.

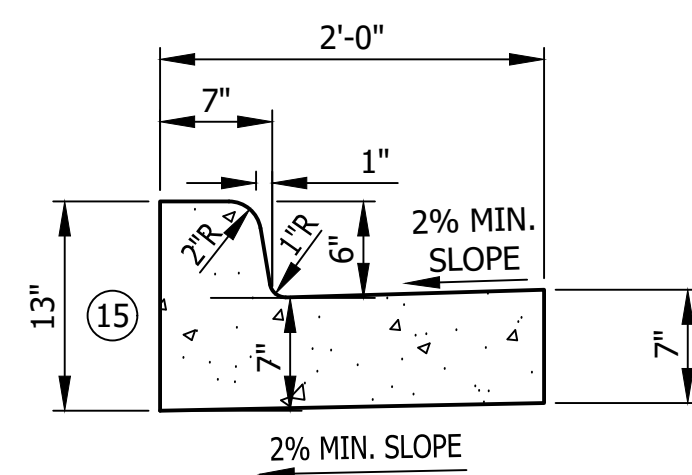
PLANS PREPARED BY:	FIRST GROUP ENGR., INC. (317) 290-9549	PHONE NUMBER			
CERTIFIED BY:		DATE			
APPROVED FOR LETTING:	INDIANA DEPARTMENT OF TRANSPORTATION	DATE			
				DESIGNATION	1901902
				SHEETS	1 of XX
			CONTRACT	PROJECT	R-42312 190192



**Typical Cross Section**  
Sta. 46+74.27 to Sta. 69+75.08 Line "K"  
Scale: 1" = 3'



**Typical Cross Section**  
Sta. 69+75.08 to Sta. 72+86.40 Line "K"  
Scale: 1" = 3'



**Combined Concrete Curb & Gutter**  
Scale: 1" = 1'

**Legend**

- (A) 165 #/Syd. QC/QA HMA, 2, 64, Surface, 9.5 mm on 275 #/Syd. QC/QA HMA, 2, 64, Intermediate, 19.0 mm on 330 #/Syd. QC/QA HMA, 2, 64, Base, 19.0 mm on 220 #/Syd. QC/QA HMA, 2, 64, Base, 19.0 mm on Subgrade Treatment, Type IBC
- (C1) PCCP for Approaches 6" on Dense Graded Subbase, on Subgrade Treatment Type II
- (C2) PCCP for Approaches 9" on Dense Graded Subbase, on Geogrid Type 1B, on Subgrade Treatment Type II
- (CR) Curb Ramp, Concrete
- (F) Sidewalk, Concrete
- (FT) Sidewalk Elevation Transition
- (R) Includes:  
2" Asphalt Milling with Cold in Place Recycled Asphalt, 3" on Existing HMA (Includes Profile Milling of Recycled Asphalt)  
220#/Syd. QC/QA HMA, 2, 64, Surface, 9.5 mm Overlay
- (R1) 2" Asphalt Milling with 220#/Syd. QC/QA HMA, 2, 64, Surface, 9.5 mm Overlay
- (T) Asphalt Material For Tack Coat
- (15) Combined Concrete Curb And Gutter, 6"
- (26) Sodding (Nursery) W/Topsoil (4" As Req'd. Under Sodding)
- (27) Seed Mixture, U

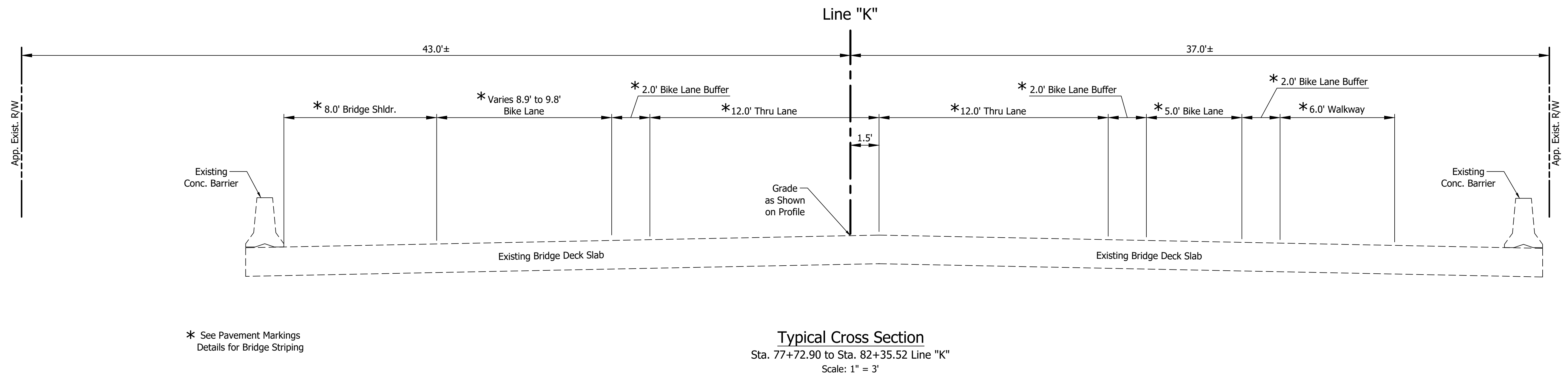
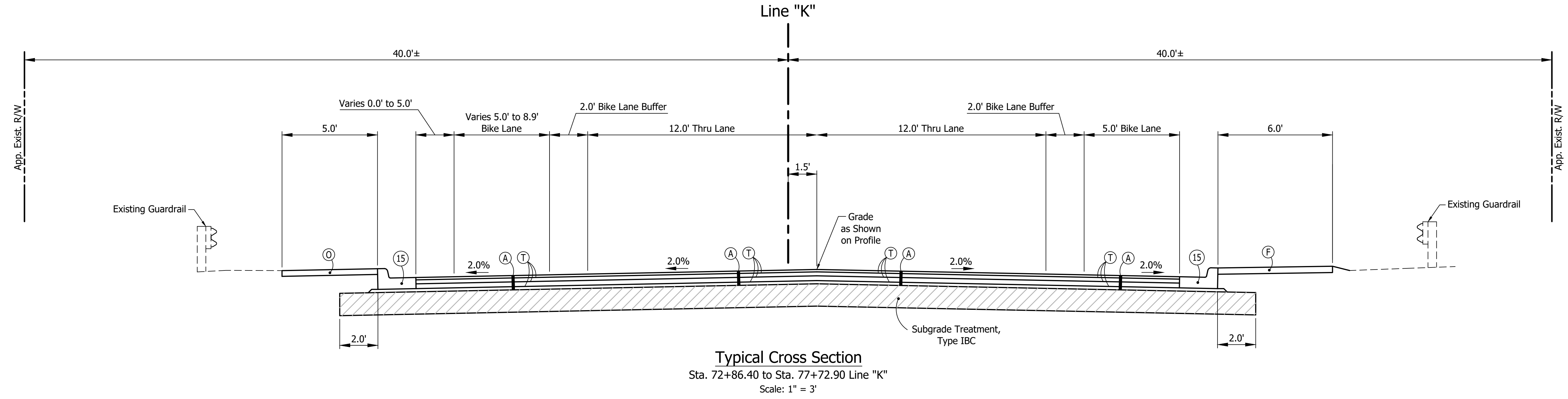
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: C.E.S./B.M.S.	DRAWN: B.M.S.	
CHECKED: C.E.S./B.M.S.	CHECKED: D.W.C.	

**INDIANA DEPARTMENT OF TRANSPORTATION**

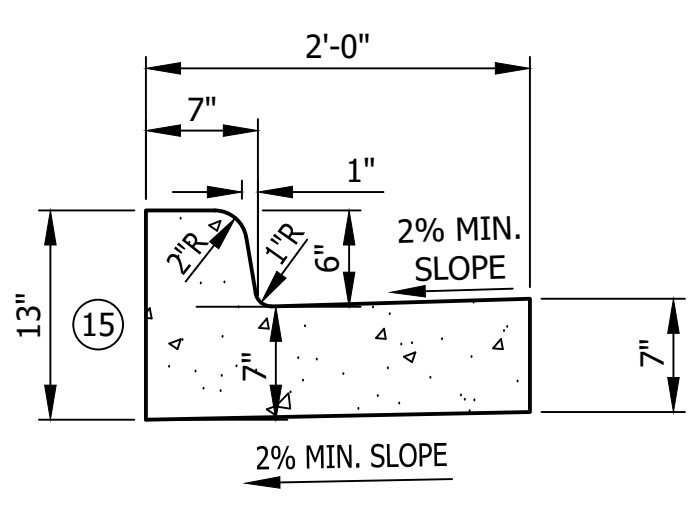
**TYPICAL CROSS SECTIONS LINE "K"**

HORIZONTAL SCALE	BRIDGE FILE
1" = 3'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1901902
SURVEY BOOK	SHEETS
N/A	3 of XX
CONTRACT	PROJECT
R-42312	1901902



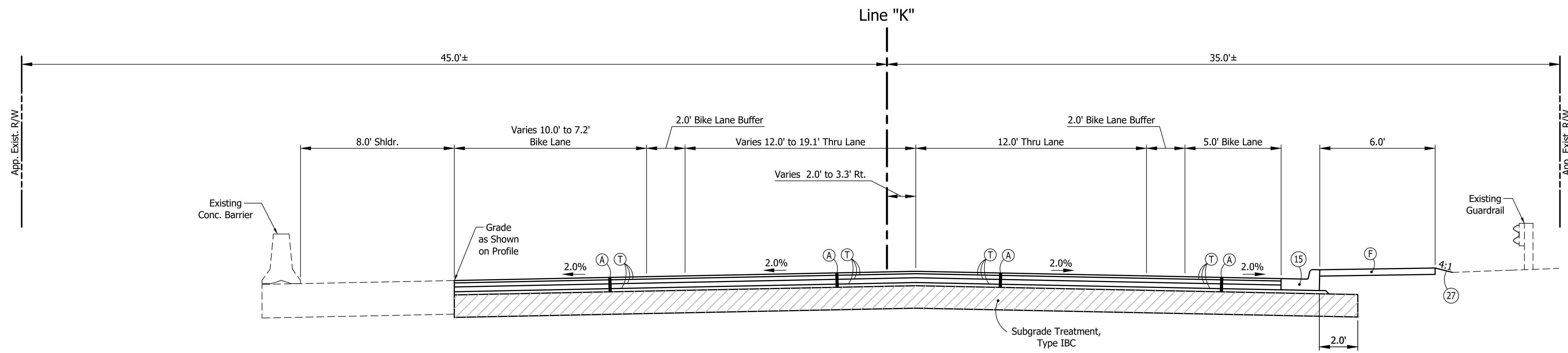


\* See Pavement Markings  
Details for Bridge Striping

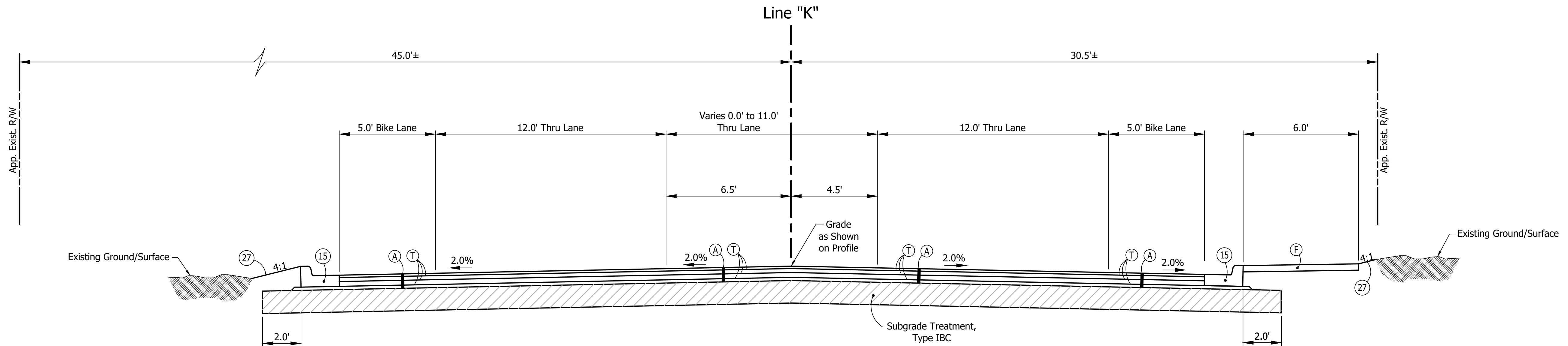


- Legend**
- (A) 165 #/Syd. QC/QA HMA, 2, 64, Surface, 9.5 mm on 275 #/Syd. QC/QA HMA, 2, 64, Intermediate, 19.0 mm on 330 #/Syd. QC/QA HMA, 2, 64, Base, 19.0 mm on 220 #/Syd. QC/QA HMA, 2, 64, Base, 19.0 mm on Subgrade Treatment, Type IBC
  - (C1) PCCP for Approaches 6" on Dense Graded Subbase, on Subgrade Treatment Type II
  - (C2) PCCP for Approaches 9" on Dense Graded Subbase, on Geogrid Type 1B, on Subgrade Treatment Type II
  - (CR) Curb Ramp, Concrete
  - (F) Sidewalk, Concrete
  - (FT) Sidewalk Elevation Transition
  - (R) Includes: 2" Asphalt Milling with Cold in Place Recycled Asphalt, 3" on Existing HMA (Includes Profile Milling of Recycled Asphalt) 220#/Syd. QC/QA HMA, 2, 64, Surface, 9.5 mm Overlay
  - (R1) 2" Asphalt Milling with 220#/Syd. QC/QA HMA, 2, 64, Surface, 9.5 mm Overlay
  - (T) Asphalt Material For Tack Coat
  - (15) Combined Concrete Curb And Gutter, 6"
  - (26) Sodding (Nursery) W/Topsoil (4" As Req'd. Under Sodding)
  - (27) Seed Mixture, U

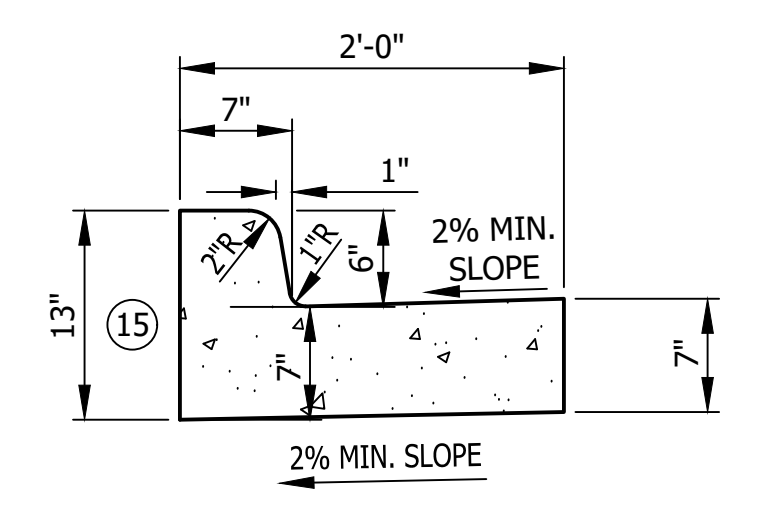
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE	BRIDGE FILE
					1" = 3'	N/A
DESIGNED: C.E.S./B.M.S.	DRAWN: B.M.S.		TYPICAL CROSS SECTIONS LINE "K"		VERTICAL SCALE	DESIGNATION
CHECKED: C.E.S./B.M.S.	CHECKED: D.W.C.				N/A	1901902
					SURVEY BOOK	SHEETS
			N/A	4 of XX		
			CONTRACT	PROJECT		
			R-42312	1901902		



**Typical Cross Section**  
Sta. 82+35.52 to Sta. 86+40.87 Line "K"  
Scale: 1" = 3'



**Typical Cross Section**  
Sta. 86+40.87 to Sta. 94+65.30 Line "K"  
Scale: 1" = 3'



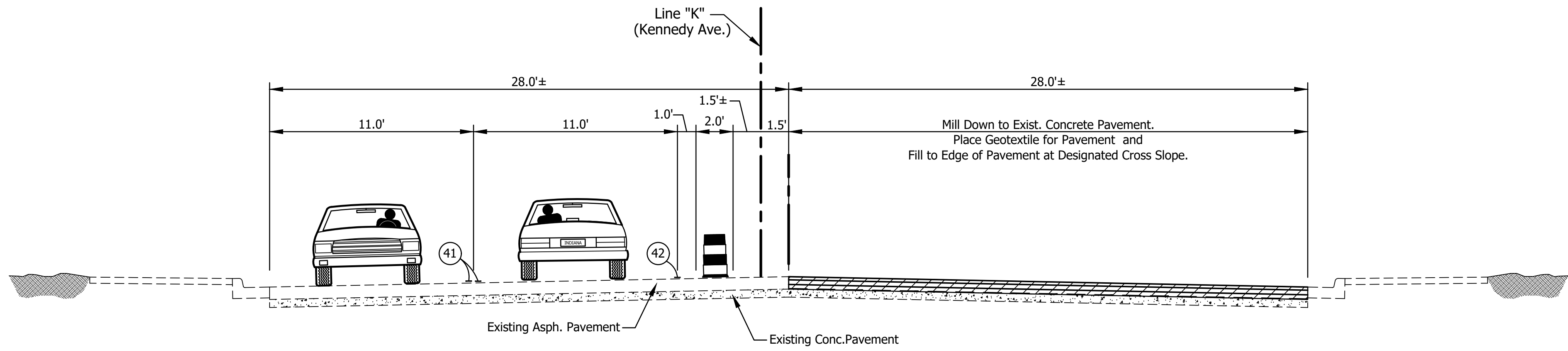
**Combined Concrete Curb & Gutter**  
Scale: 1" = 1'

**Legend**

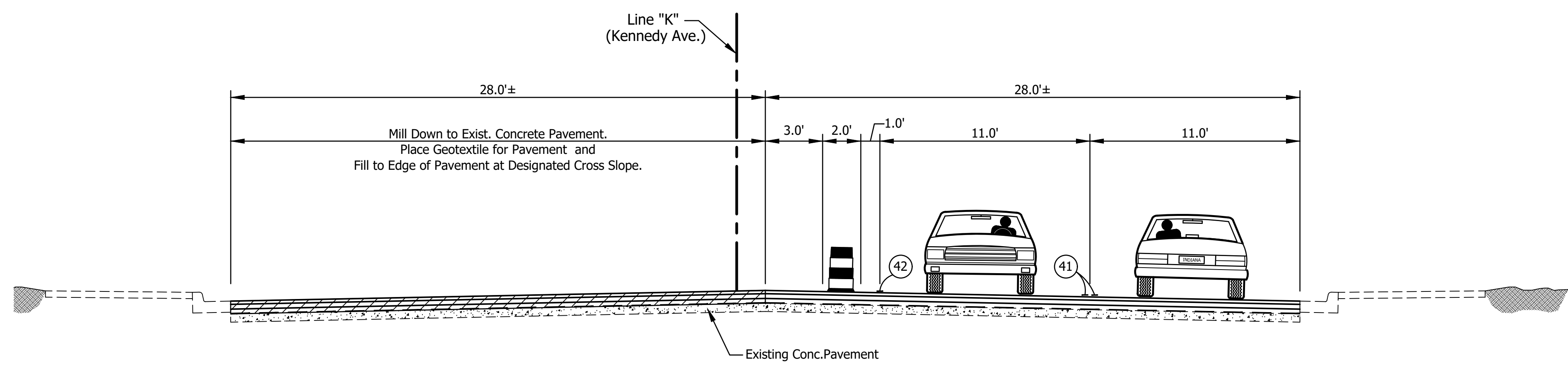
- (A) 165 #/Syd. QC/QA HMA, 2, 64, Surface, 9.5 mm on 275 #/Syd. QC/QA HMA, 2, 64, Intermediate, 19.0 mm on 330 #/Syd. QC/QA HMA, 2, 64, Base, 19.0 mm on 220 #/Syd. QC/QA HMA, 2, 64, Base, 19.0 mm on Subgrade Treatment, Type IBC
- (C1) PCCP for Approaches 6" on Dense Graded Subbase, on Subgrade Treatment Type II
- (C2) PCCP for Approaches 9" on Dense Graded Subbase, on Geogrid Type 1B, on Subgrade Treatment Type II
- (CR) Curb Ramp, Concrete
- (F) Sidewalk, Concrete
- (FT) Sidewalk Elevation Transition
- (R) Includes: 2" Asphalt Milling with Cold in Place Recycled Asphalt, 3" on Existing HMA (Includes Profile Milling of Recycled Asphalt) 220#/Syd. QC/QA HMA, 2, 64, Surface, 9.5 mm Overlay
- (R1) 2" Asphalt Milling with 220#/Syd. QC/QA HMA, 2, 64, Surface, 9.5 mm Overlay
- (T) Asphalt Material For Tack Coat
- (15) Combined Concrete Curb And Gutter, 6"
- (26) Sodding (Nursery) W/Topsoil (4" As Req'd. Under Sodding)
- (27) Seed Mixture, U

	RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	<b>INDIANA DEPARTMENT OF TRANSPORTATION</b>  <b>TYPICAL CROSS SECTIONS LINE "K"</b>	HORIZONTAL SCALE	BRIDGE FILE
					1" = 3'	N/A
					VERTICAL SCALE	DESIGNATION
					N/A	1901902
			DESIGNED: C.E.S./B.M.S.	DRAWN: B.M.S.	SURVEY BOOK	SHEETS
			CHECKED: C.E.S./B.M.S.	CHECKED: D.W.C.	N/A	5 of XX
					CONTRACT	PROJECT
					R-42312	1901902





**Phase 1**  
Line "K" (Kennedy Ave.)  
Scale 1" = 4'



**Phase 2**  
Line "K" (Kennedy Ave.)  
Scale 1" = 4'

- Legend**
- Standard Drum
  - Standard Drum
  - Barricade, Type III-B
  - Traffic Flow Arrow
  - Construction Signs, Type A or B w/Type "A" Construction Warning Light
  - Temporary Traffic Barrier, Type 2
  - Flashing Arrow Sign
  - Area To Be Constructed During This Phase
  - Temp. Pavement Marking, Solid, Yellow, 4"
  - Temp. Pavement Marking, Solid, White, 4"

- Sign Legend**
- XG20-7 - Worksite Added Penalty Sign
  - XW20-1 - Road Construction Ahead
  - XG20-2 - End Construction
  - R3-7(R) - Right Lane Must Turn Right
  - XW9-2A(R) - Lane Ends Merge Right
  - XW4-2-A(R) - Merge Right (Sym.)
  - R3-2a - No Left Turn
  - R9-9 - Sidewalk Closed
  - R11-3a - Road Closed / Local Traffic Only
  - R11-2 - Road Closed

Summary Of Maintenance Of Traffic Quantities			
Item	Phase 1	Phase 2	TOTALS
Line, Remove			XXX Lft.
** Temporary Pavement Marking, Solid, White, 4"			XXX Lft.
Temporary Pavement Marking, 4" (Removable)			XXX Lft.
Line, Thermoplastic, Solid, White, 4 In. (To Replace Permanent Markings Removed)			XXX Lft.
Line, Thermoplastic, Solid, Yellow, 4 In. (To Replace Permanent Markings Removed)			XXX Lft.
Temp. Pavement Message Markings, Thermoplastic, Lane Indication Arrow			XXX Each
Construction Signs, Type "A" w/Type "A" Construction Warning Light			XXX Each
Construction Signs, Type "B" w/Type "A" Construction Warning Light			XXX Each
Barricade, Type III-B			XXX Lft.
Flashing Arrow Sign (Days) (at 10 Days Each)			XXX Days
*** Compacted Aggregate No. 53, Temporary			XXX Tons
*** Temporary Traffic Barrier, Type 2			XXX Lft.
** Energy-Absorbing Terminal, CZ, TL-2			XXX Ea.

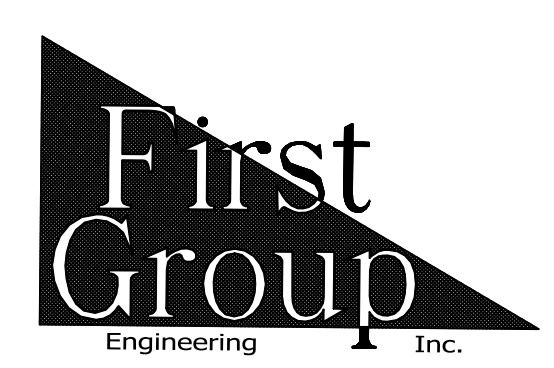
\* Maximum required during any single phase      \*\* Not a pay item  
 \*\*\* Total includes undistributed quantity for locations deemed necessary by the engineer for sewer or other construction.      \*\*\*\* Estimated quantity for maintaining access to drives. (As required)

**NOTES:**  
 Existing pavement markings that conflict with each maintenance of traffic scheme shall be removed prior to construction.  
 No two adjacent street approaches shall be closed at the same time.  
 Whenever possible private driveways shall be constructed in portions to allow access to properties at all times. Whenever private driveways are too narrow to accommodate continuous access the contractor shall contact the property owner and work out a time schedule for driveway construction that will cause the least inconvenience to the property owner.  
 Dimensions for sign locations are approximate only. Actual locations to be determined by the Contractor and approved by the engineer.

CONSTRUCTION ZONE DESIGN SPEED (mph)	SUGGESTED MAXIMUM SPACING (ft)	
	TAPER SECTION *	TANGENT SECTION
25	23	46
30	30	60
35	36	72
45	42	84
50	49	98
55	56	112
60	62	124
70	70	140

\* Not less than 20" on tapers below 25 M.P.H.

**SUGGESTED MAXIMUM SPACING OF CHANNELIZATION DEVICES**



5925 Lakeside Blvd.  
 Indianapolis, Indiana 46278  
 Phone (317) 290-9549

FOR APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_  
 DESIGN ENGINEER \_\_\_\_\_  
 DESIGNED: C.E.S./B.M.S. DRAWN: B.M.S.  
 CHECKED: C.E.S./B.M.S. CHECKED: D.W.C.

INDIANA DEPARTMENT OF TRANSPORTATION  
 MAINTENANCE OF TRAFFIC  
 KENNEDY AVENUE

HORIZONTAL SCALE 1" = 4'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1901902
SURVEY BOOK N/A	SHEETS 6 of XX
CONTRACT R-42312	PROJECT 1901902

45 +14.4,33.3' Pwp.  
+45.2,42.1' Bush  
+47.8,41.5' Bush  
+62.6,31.7' Handhole

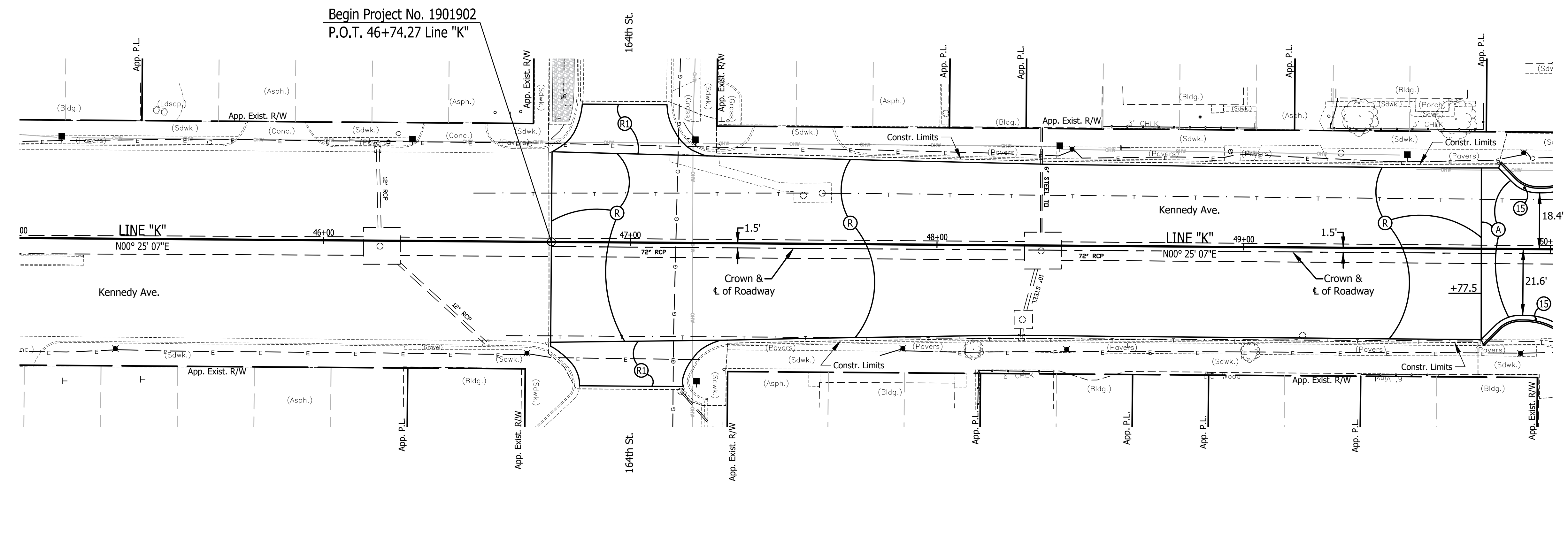
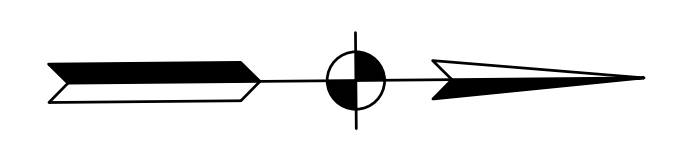
46 +08.3,33.3' Gy. W.  
+14.6,32.6' Gy. W.  
+17.5,29.7' Inlet  
+20.9,32.2' Det. Hsg.  
+24.1,35' Handhole  
+28.7,33.2' Pwp.

47 +55.6,42.1' Post  
+60.4,13' Sign House  
+64.4,2' Post (Metal)  
+67.3,1.9' Handhole  
+75.4,40' Sign  
+77.9,47.5' Lt. P.  
+79.4,44.5' Sign (Stop)

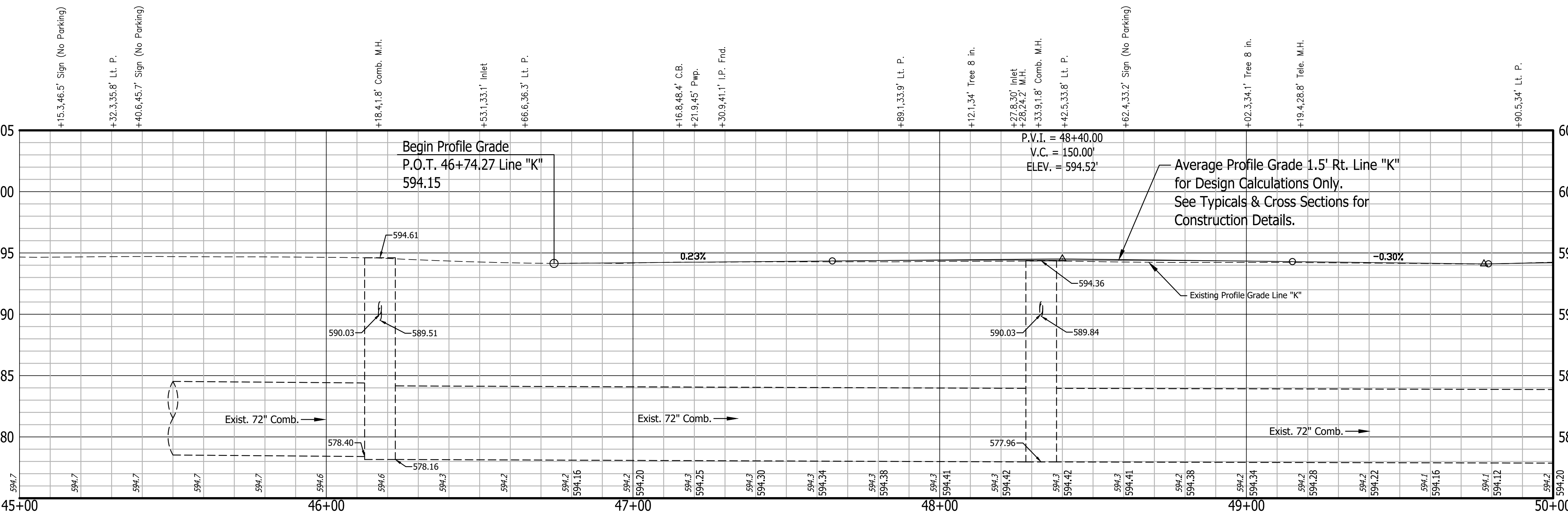
48 +21.3,37' Pwp.  
+28.6,31.6' Handhole  
+29.6,39.6' Sign  
+30.6,39.6' Sign  
+31.6,39.9' Ballard

49 +58.8,32.6' Pwp.  
+43.8,31.5' Lt. P.  
+58.8,32.2' Pwp.  
+85.5,42.3' Pine  
+95.5,31.1' Stump  
+03.3,38.8' Sign (Wrong Way)  
+27.4,42.9' Post (Metal)  
+28.39' Sign (Wrong Way)  
+31.5,30.8' M.H.  
+37.5,42.9' Tree 15 in.

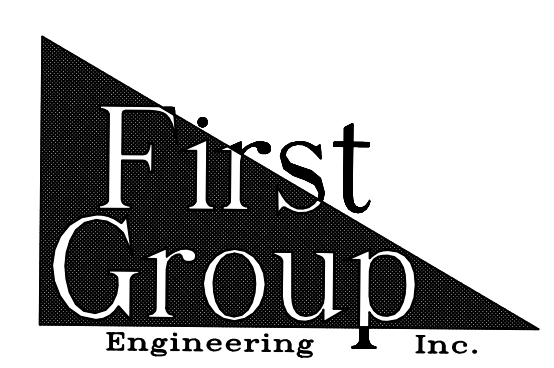
50 +91.1,4' Lt. P.  
+94.29' Handhole  
+68.8,42.2' Tree 17 in.



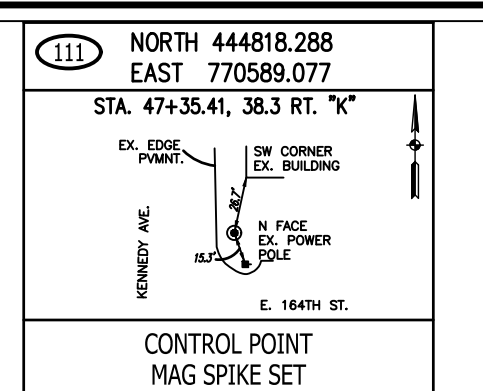
- T.B.M. No. 1 Bench Tie 1.7' Above Ground E. Side Pwp. 72' S. of C.L. 170th St., W. Side Kennedy Elev. 604.67 N. 441108.6 E. 770506.6
- T.B.M. No. 2 Bench Tie 1.7' Above Ground E. Side Pwp. #42-915 N.W. Cor. Walgreens Property Elev. 613.52 N. 441719.8 E. 770571.3
- T.B.M. No. 3 Bench Tie 1.7' Above Ground E. Side Pwp. #90-232 N.E. Cor. Pioneer Tap Bldg. Elev. 608.43 N. 442270.8 E. 770507.5
- T.B.M. No. 4 Bench Tie 1.7' Above Ground E. Side Pwp. 183' N. of C.L. Martha St., W. Side Kennedy Elev. 602.27 N. 442806.3 E. 770509.6
- T.B.M. No. 5 Bench Tie 1.7' Above Ground E. Side Pwp. #2-0808 N.E. Cor. Amerimex Muffler Elev. 599.56 N. 443353.0 E. 770511.3
- T.B.M. No. 6 Bench Tie 1.7' Above Ground E. Side Pwp. #93-45 38' N. of C.L. Vine St., W. Side Kennedy Elev. 597.80 N. 443960.1 E. 770514.2
- T.B.M. No. 7 Bench Tie 1.7' Above Ground N. Side Pwp. #26-515 38' E. of C.L. Alabama Ave. along Downey Pl. Elev. 595.51 N. 444119.6 E. 770913.9



- T.B.M. No. 8 Bench Tie 1.7' Above Ground W. Side Pwp. N.E. Cor. 165th St./Kennedy Ave. Sta. 44+07.97 "K", 59.71' Rt. Elev. 596.30
- T.B.M. No. 9 Cut "X" in W. Flange Bolt of Fire Hyd. S.E. Cor. Alexander Ave./Kennedy Ave. Sta. 43+34.71 "K", 638.63' Rt. Elev. 596.50
- T.B.M. No. 10 Cut "X" in W. Flange Bolt of Fire Hyd. N.E. Cor. Arizona Ave./Kennedy Ave. Sta. 44+02.24 "K", 694.01' Rt. Elev. 596.37
- T.B.M. No. 11 Bench Tie 1.7' Above Ground W. Side Pwp. #91-256 N.W. Cor. 164th Pl./Kennedy Ave. Sta. 47+20.86 "K", 32.86' Lt. Elev. 595.52



5925 Lakeside Blvd.  
Indianapolis, Indiana 46278  
Phone (317) 290-9549



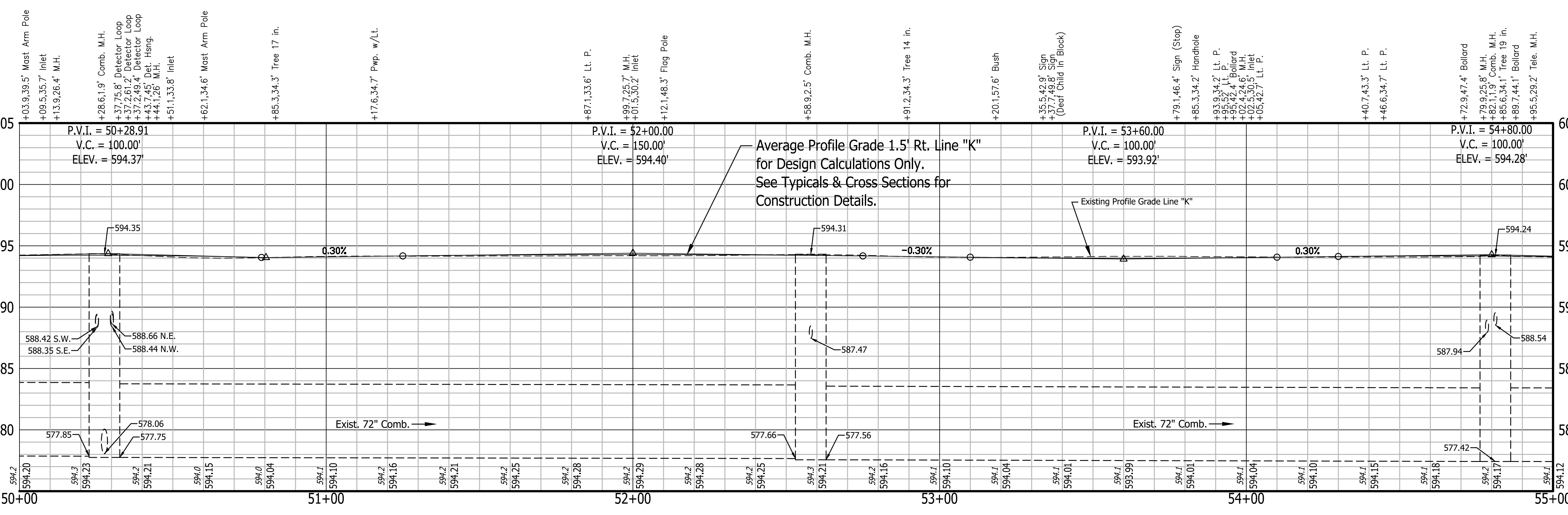
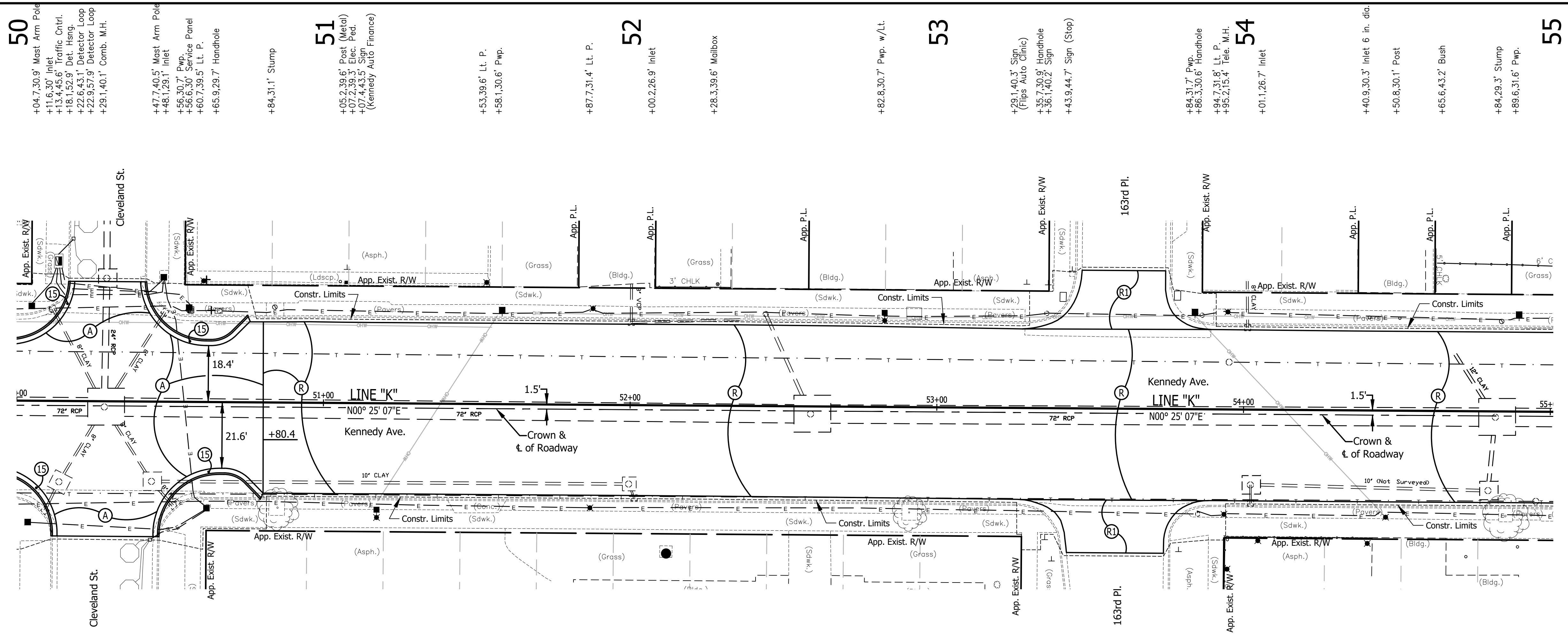
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: T.F.S.	DRAWN: T.F.S.	
CHECKED: D.W.C.	CHECKED: D.W.C.	

**INDIANA DEPARTMENT OF TRANSPORTATION**

**PLAN & PROFILE**  
**KENNEDY AVE.**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	1901902
SURVEY BOOK	SHEETS
N/A	7 of XX
CONTRACT	PROJECT
R-42312	1901902

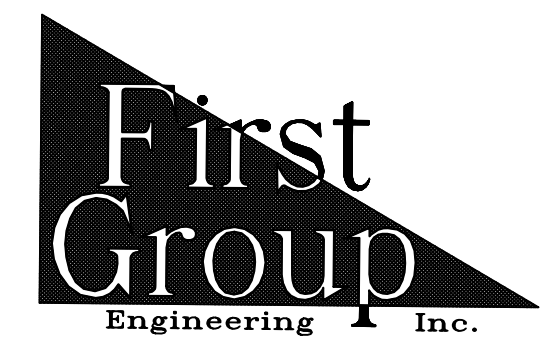




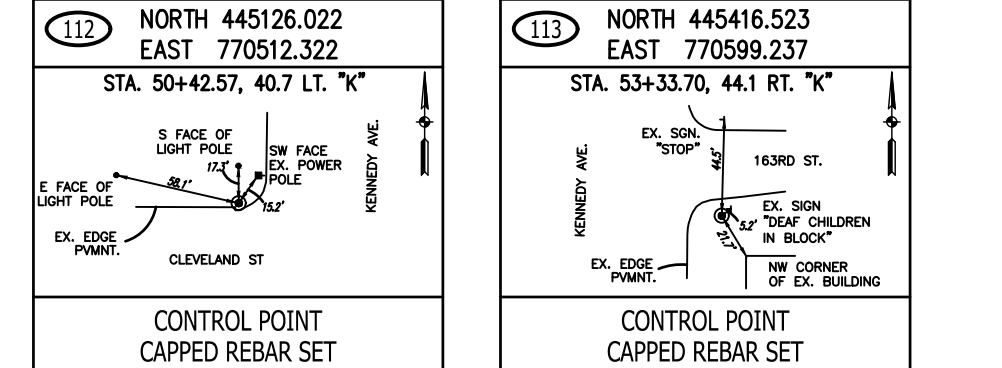
All Existing Topography Described From Line "E"

T.B.M. No. 12 Bench Tie 1.7' Above Ground E. Side Pwp. N.W. Cor. Cleveland St./Kennedy Ave. Sta. 50+55.78 "K", 29.91' Lt. Elev. 595.17

T.B.M. No. 13 Bench Tie 1.7' Above Ground E. Side Pwp. N.W. Cor. 163rd Pl./Kennedy Ave. Sta. 53+83.99 "K", 31.20' Lt. Elev. 595.20



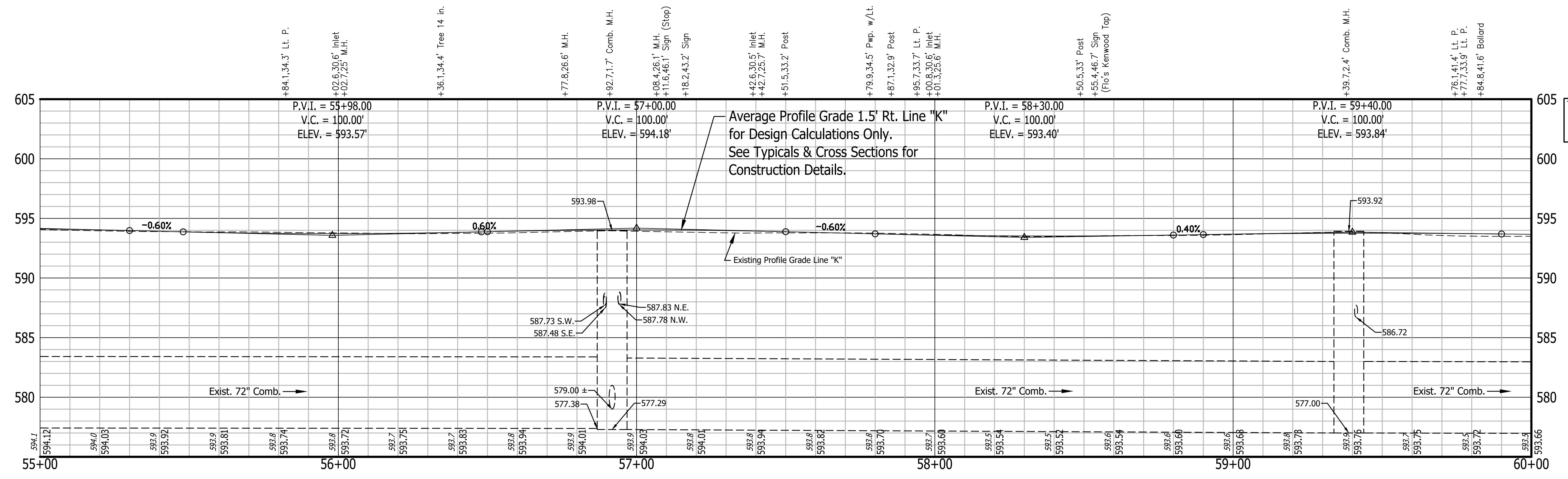
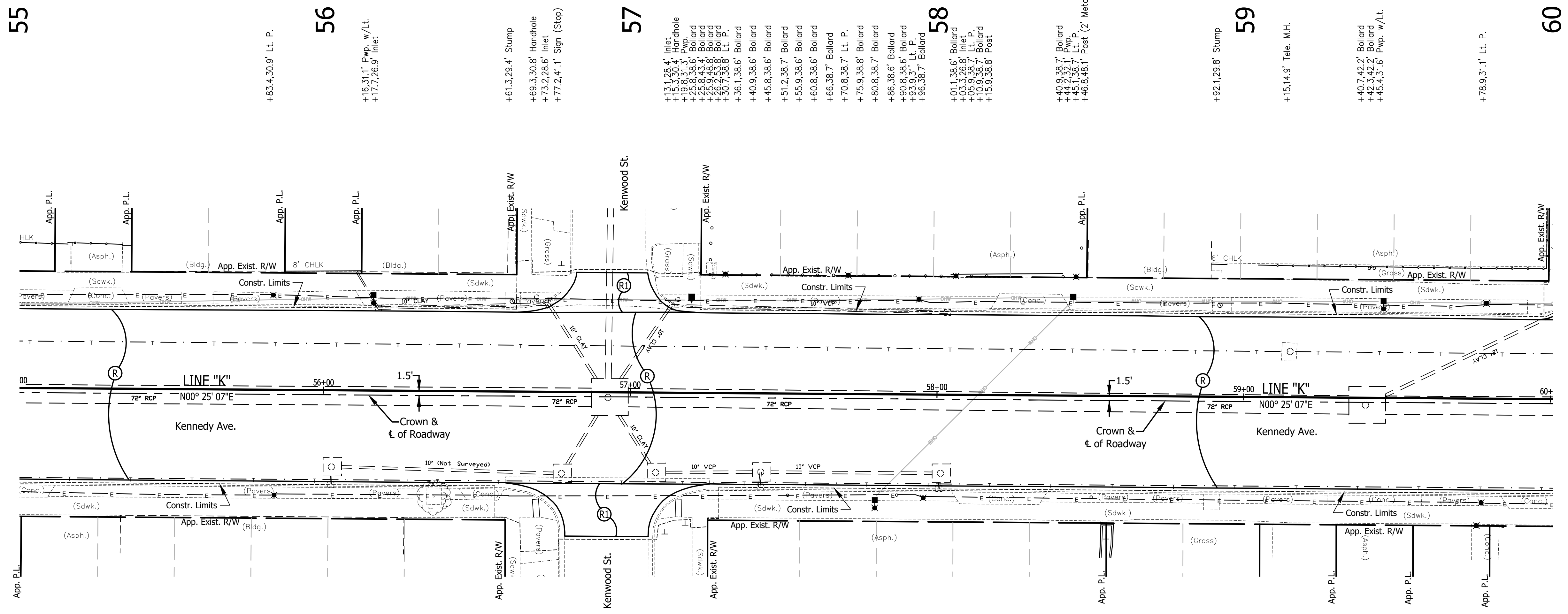
5925 Lakeside Blvd.  
Indianapolis, Indiana 46278  
Phone (317) 290-9549



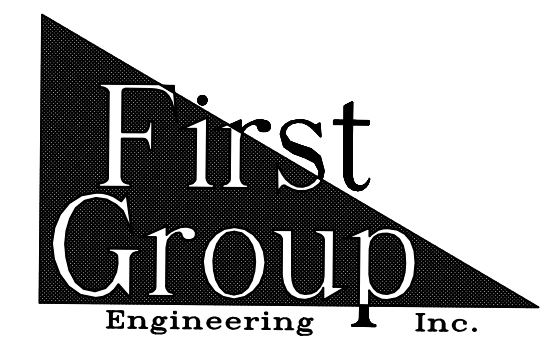
RECOMMENDED FOR APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_  
DESIGN ENGINEER \_\_\_\_\_  
DESIGNED: T.F.S. DRAWN: T.F.S.  
CHECKED: D.W.C. CHECKED: D.W.C.

INDIANA DEPARTMENT OF TRANSPORTATION  
PLAN & PROFILE  
KENNEDY AVE.

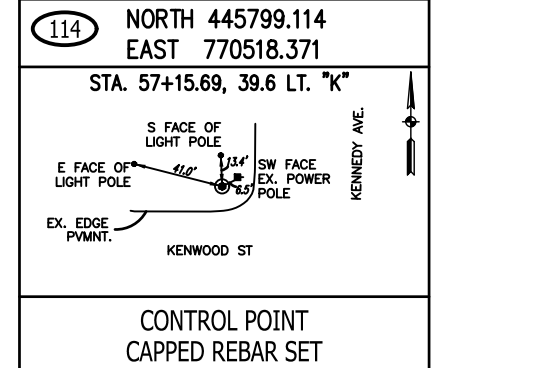
HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	1901902
SURVEY BOOK	SHEETS
N/A	8 of XX
CONTRACT	PROJECT
R-42312	1901902



All Existing Topography Described From Line "E"  
 T.B.M. No. 14 Bench Tie 1.7' Above Ground E. Side Pwp.  
 N.W. Cor. Kentwood St./Kennedy Ave.  
 Sta. 57+19.76 "K", 30.56' Lt.  
 Elev. 595.11



5925 Lakeside Blvd.  
 Indianapolis, Indiana 46278  
 Phone (317) 290-9549



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: T.F.S.	DRAWN: T.F.S.	
CHECKED: D.W.C.	CHECKED: D.W.C.	

INDIANA DEPARTMENT OF TRANSPORTATION  
**PLAN & PROFILE**  
**KENNEDY AVE.**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	1901902
SURVEY BOOK	SHEETS
N/A	9 of XX
CONTRACT	PROJECT
R-42312	1901902



60  
 +06.9,4.5,4' Sign (Stop)  
 +07.4,30.7' C.B.  
 +29.6,9.3' Comb. M.H.  
 +42.3,44.7' Lt. P.  
 +46.7,31.6' Pwp.  
 +51.39.4' Sign  
 (Ace Hardware)

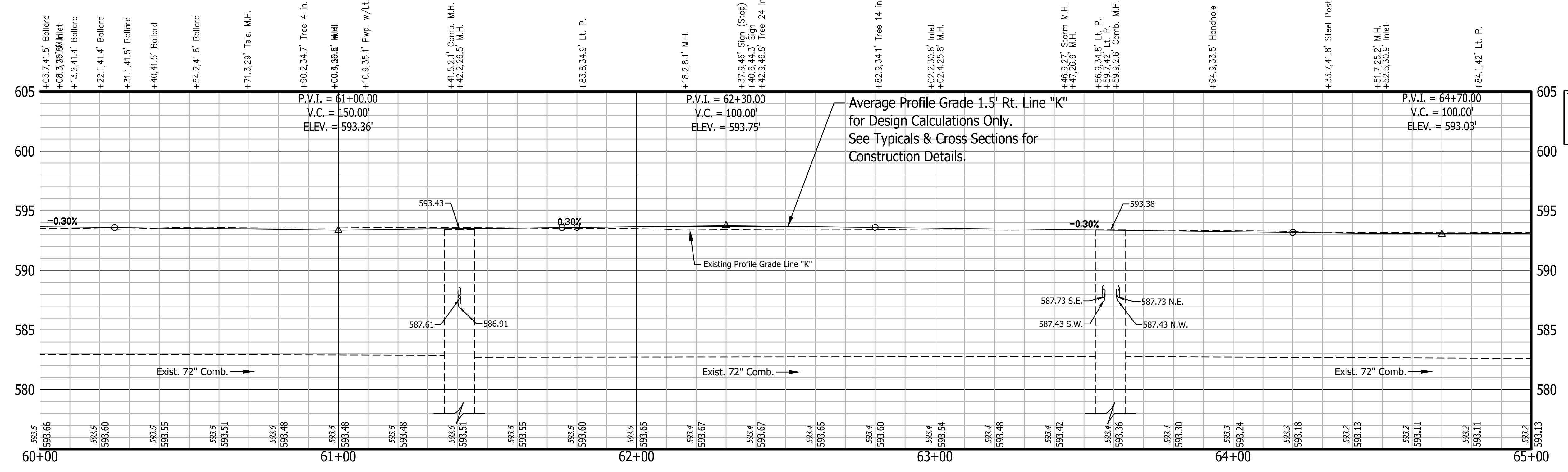
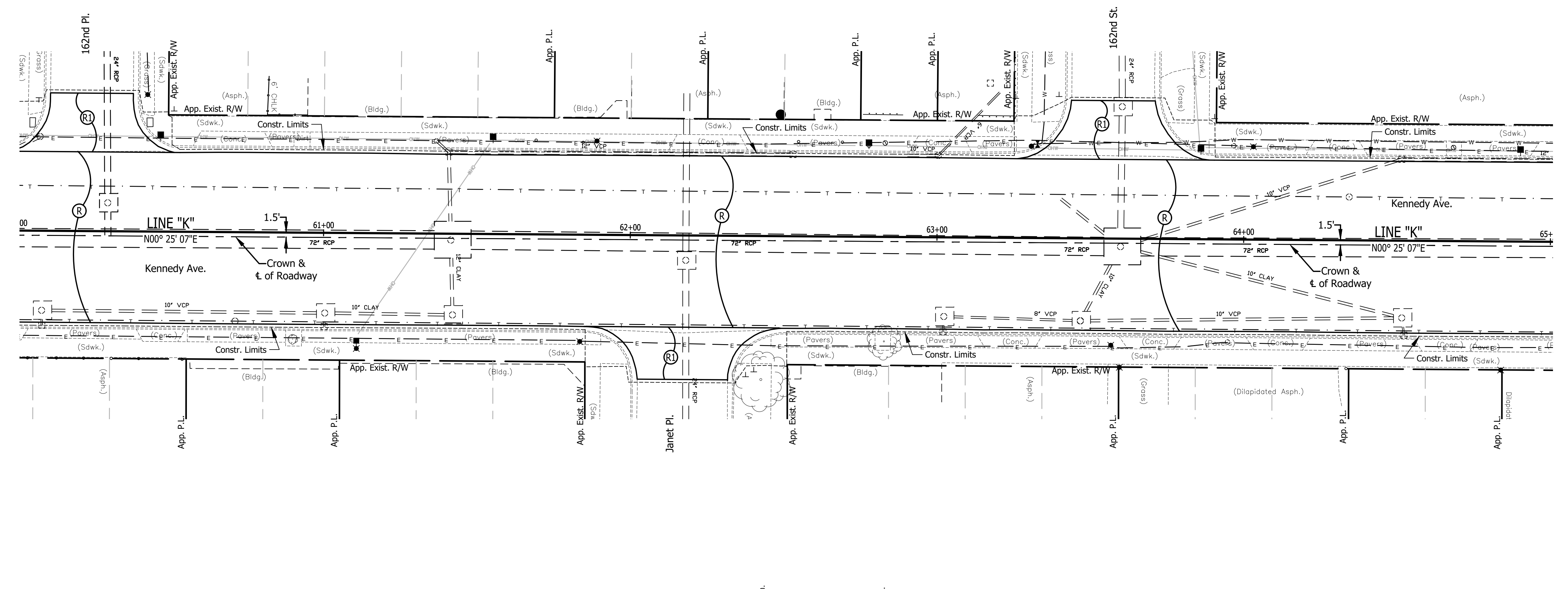
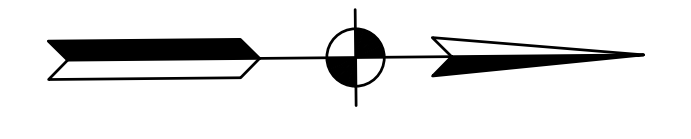
61  
 +36.6,30.2' C.B.  
 +40.7,26.6' Inlet  
 +55.3,1.7' Pwp.  
 +69.1,30.7' Post  
 +84.4,30.1' Post  
 +88.9,30.6' Lt. P.

62  
 +43.3,38.1' Ballard  
 +43.8,39.7' Flag Pole  
 +44.9,40.3' Ballard  
 +49.2,37.7' Ballard  
 +54.6,30.9' Post  
 +68.3,0.8' Post  
 +77.6,30.7' Pwp.  
 +82.9,30.7' Stump

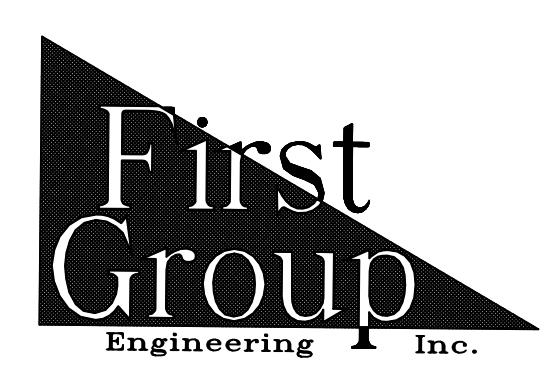
63  
 +00.2,26.7' Inlet  
 +17.5,0.4' Inlet  
 +25.4,45.5' Sign  
 (Handicap)  
 +30.6,29.9' F.Hyd.  
 +32.6,30.7' W.V.  
 +39.5,46.2' Sign (Stop)  
 +60.1,43.7' M.H.

64  
 +85.9,29.6' Pwp.  
 +90.3,39.3' Sign  
 (Mike's Auto Service)  
 +96.0,30.6' Handhole  
 +02.9,30.3' Lt. P.  
 +34.3,14.1' Tele. M.H.  
 +51.3,26.5' Inlet  
 +68.2,30.5' Stump  
 +90.1,30.7' Pwp.

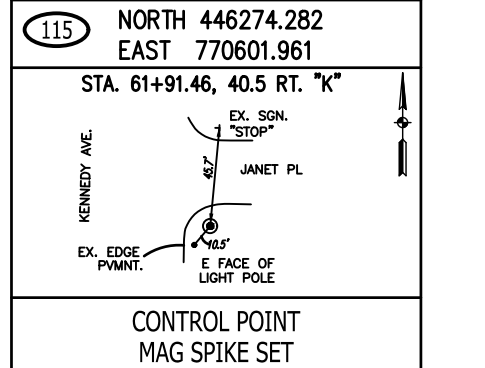
65



All Existing Topography Described From Line "E"  
 T.B.M. No. 15 Bench Tie 1.7' Above Ground E. Side Pwp.  
 #95-927.82' S. of C.L. 162nd St. along  
 W. Side of Kennedy Ave.  
 Sta. 62+77.62 "K", 29.90' Lt.  
 Elev. 594.88



5925 Lakeside Blvd.  
 Indianapolis, Indiana 46278  
 Phone (317) 290-9549



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: T.F.S.	DRAWN: T.F.S.	
CHECKED: D.W.C.	CHECKED: D.W.C.	

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 PLAN & PROFILE  
 KENNEDY AVE.

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	1901902
SURVEY BOOK	SHEETS
N/A	10 of XX
CONTRACT	PROJECT
R-42312	1901902

65

+52.1,26.6' Inlet  
+63.6,42.9' Post  
(1.5' Med) Lt. P.  
+69.4,30.4' Lt. P.

66

+93.5,30.4' Pwp.

+41.6,38.3' Mailbox  
+52.4,46.8' Bush  
+57.2,40.1' Bush  
+62.6,30.2' Tree 17 in.

67

+94.1,30.5' Pwp.

+52.3,26.4' Inlet

68

+81.6,63' Inlet  
+88.7,34.7' W.V.  
+88.7,40.5' W.V.  
+92.6,31.1' Pwp.  
+98.9,30.2' Lt. P.

69

+27.2,30.3' Tree 11 in.  
+50.3,1.8' W.V.

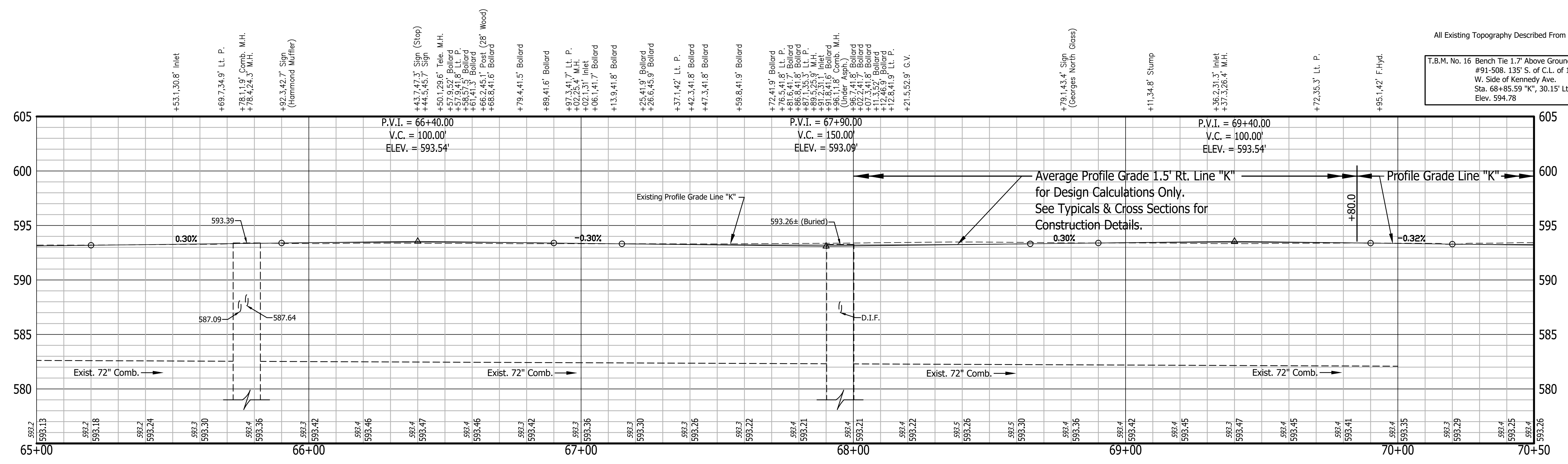
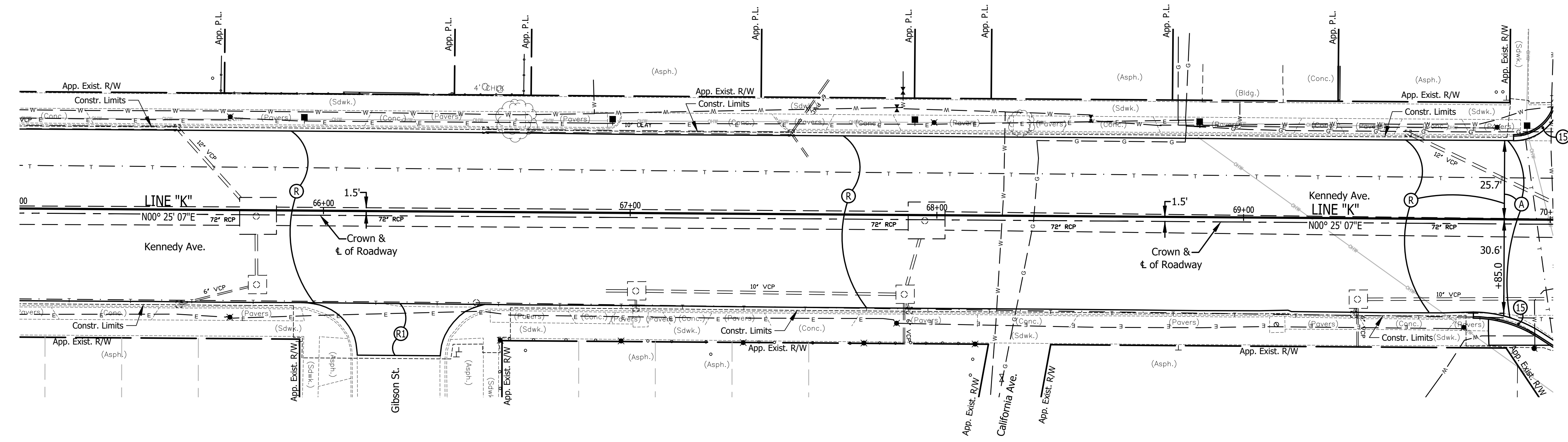
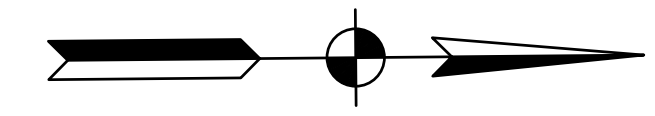
70

+76.8,68.8' Inlet  
+85.5,31.1' Pwp.

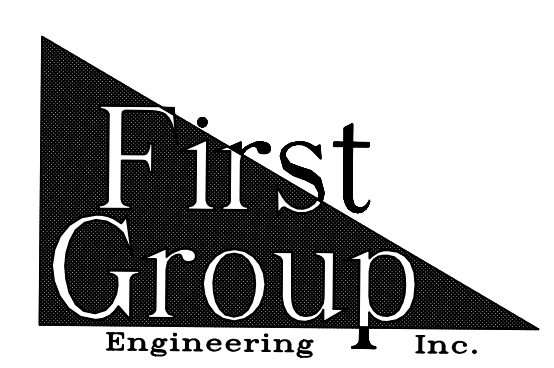
+53.5,27.8' Inlet

70

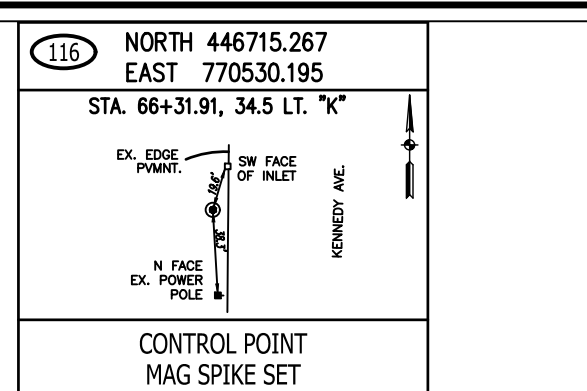
+82.1,41.4' Ballard  
+82.5,30' Lt. P.  
+82.7,45.8' Ballard  
(W&M Detailing)  
+92.2,30.6' Pwp.



All Existing Topography Described From Line "E"  
T.B.M. No. 16 Bench Tie 1.7' Above Ground E. Side Pwp. #91-508. 135' S. of C.L. of 161st St. along W. Side of Kennedy Ave. Sta. 68+85.59 "K", 30.15' Lt. Elev. 594.78



5925 Lakeside Blvd.  
Indianapolis, Indiana 46278  
Phone (317) 290-9549



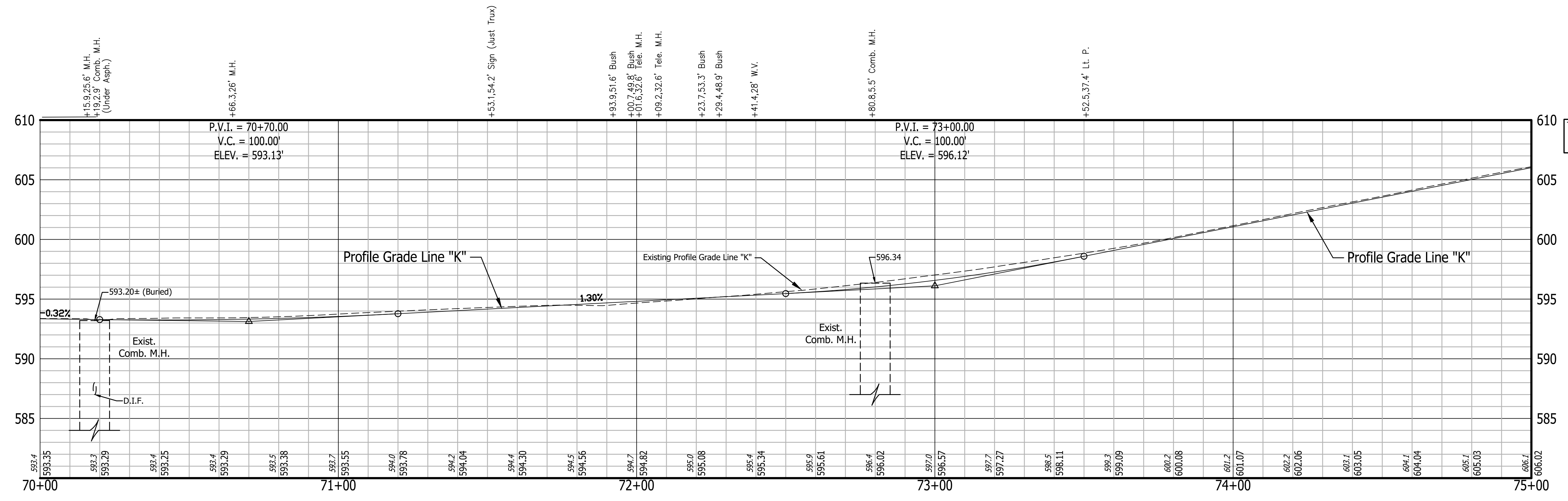
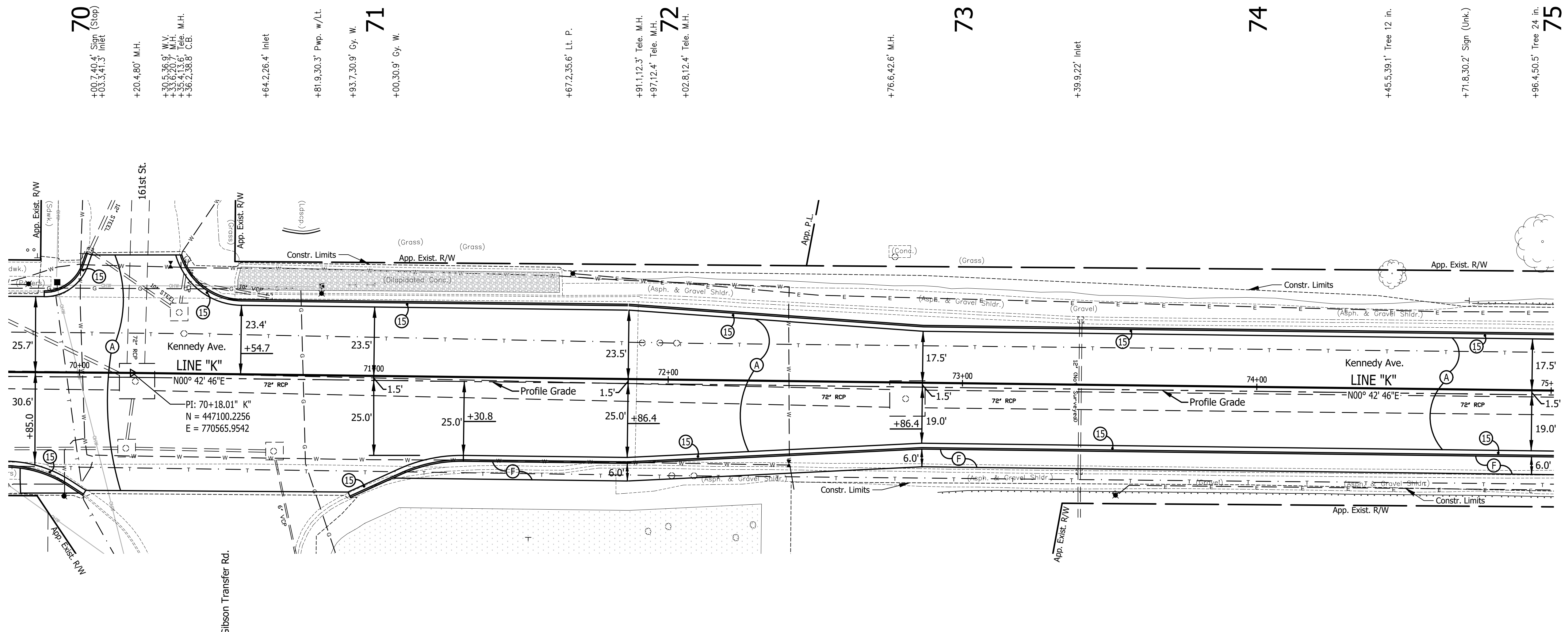
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: T.F.S.	DRAWN: T.F.S.	
CHECKED: D.W.C.	CHECKED: D.W.C.	

INDIANA  
DEPARTMENT OF TRANSPORTATION

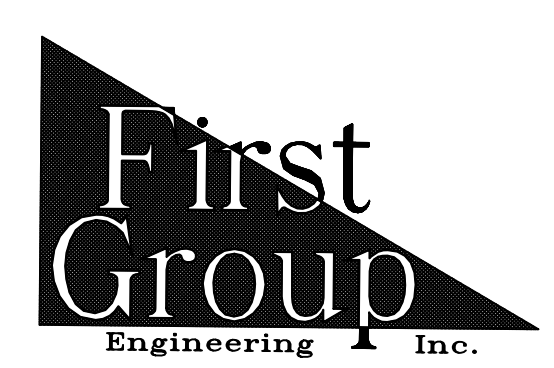
PLAN & PROFILE  
KENNEDY AVE.

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	1901902
SURVEY BOOK	SHEETS
N/A	11 of XX
CONTRACT	PROJECT
R-42312	1901902

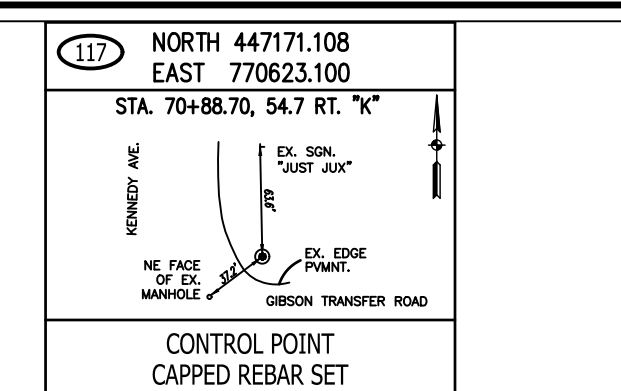




All Existing Topography Described From Line "E"  
 T.B.M. No. 17 Cut "X" in W. Side Conc. Base of Light Pole  
 Sta. 73+52.30 "K", 36.78' Rt.  
 Elev. 598.94



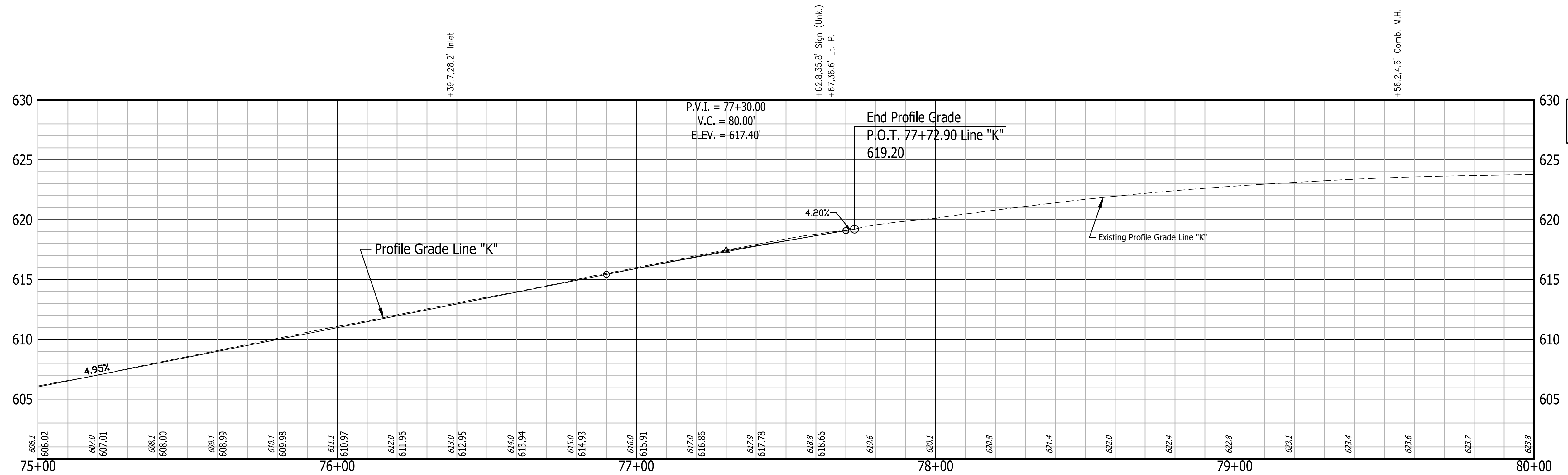
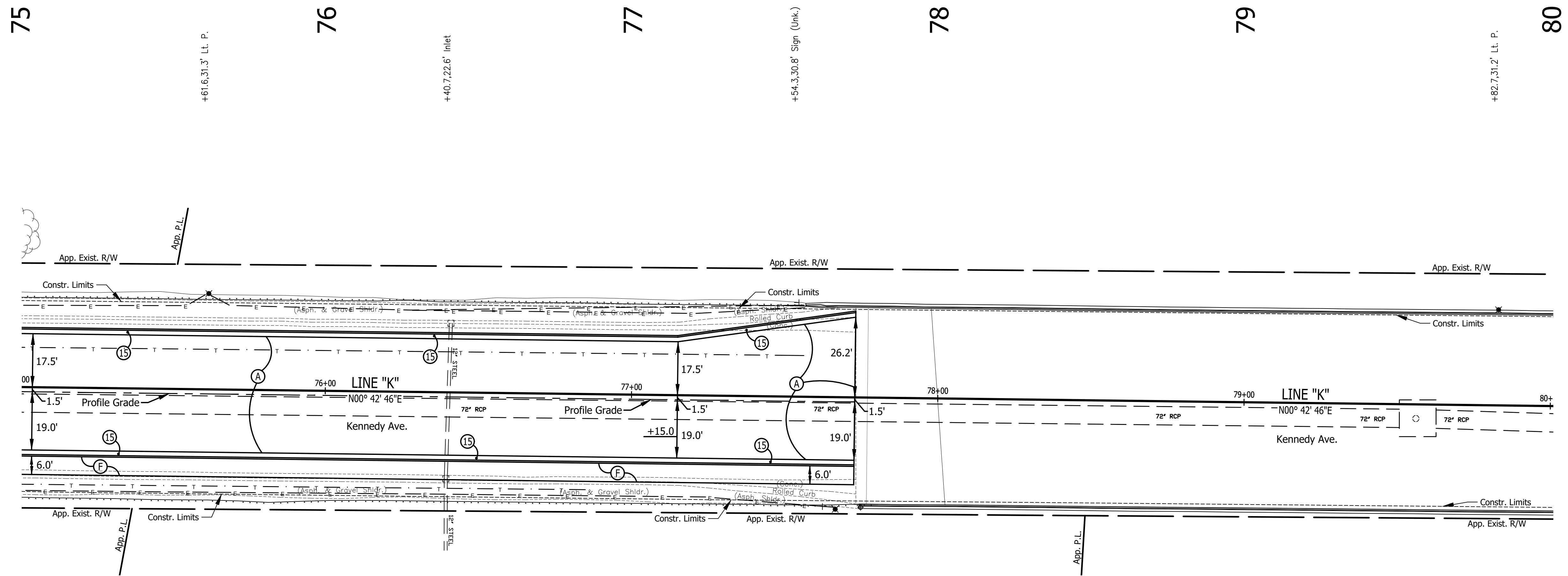
5925 Lakeside Blvd.  
 Indianapolis, Indiana 46278  
 Phone (317) 290-9549



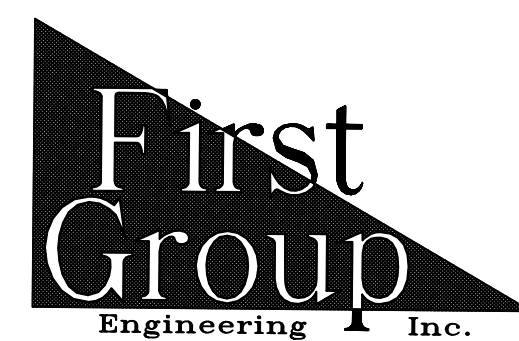
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: T.F.S.	DRAWN: T.F.S.	
CHECKED: D.W.C.	CHECKED: D.W.C.	

INDIANA DEPARTMENT OF TRANSPORTATION  
**PLAN & PROFILE**  
**KENNEDY AVE.**

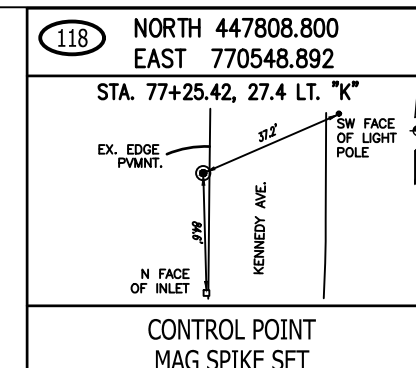
HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	1901902
SURVEY BOOK	SHEETS
N/A	12 of XX
CONTRACT	PROJECT
R-42312	1901902



All Existing Topography Described From Line "E"  
 T.B.M. No. 18 Cut "X" in End of Top of Barrier Wall  
 S.E. Cor. of Kennedy Ave. Bridge  
 Sta. 77+75.23 "K", 35.89' Rt.  
 Elev. 621.45



5925 Lakeside Blvd.  
 Indianapolis, Indiana 46278  
 Phone (317) 290-9549



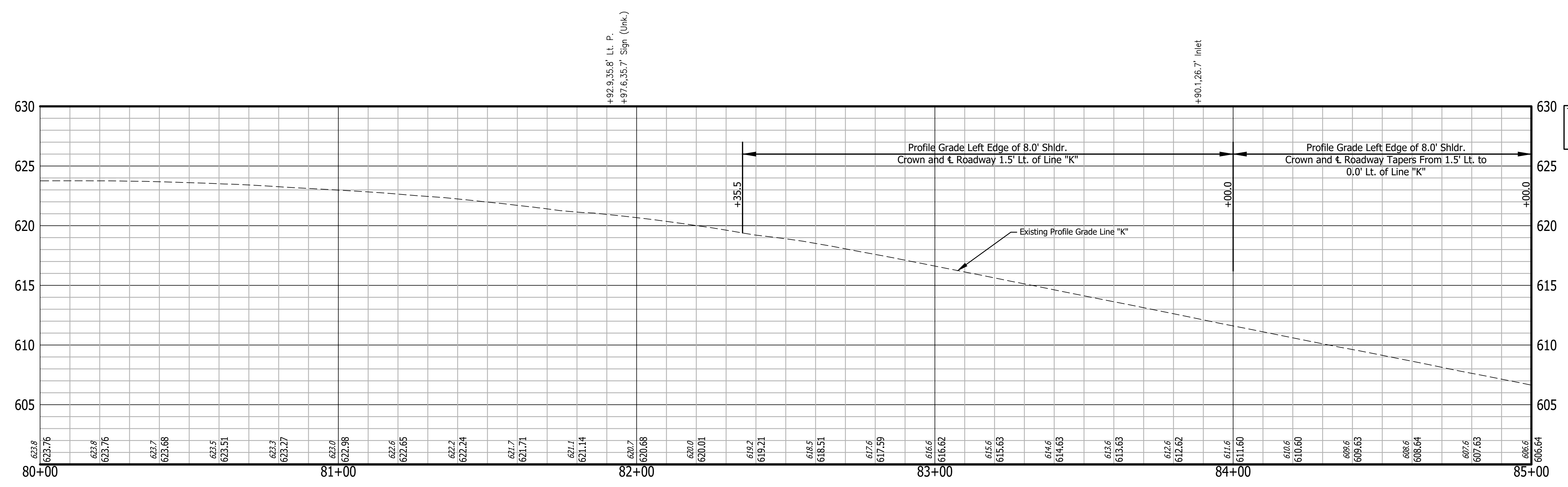
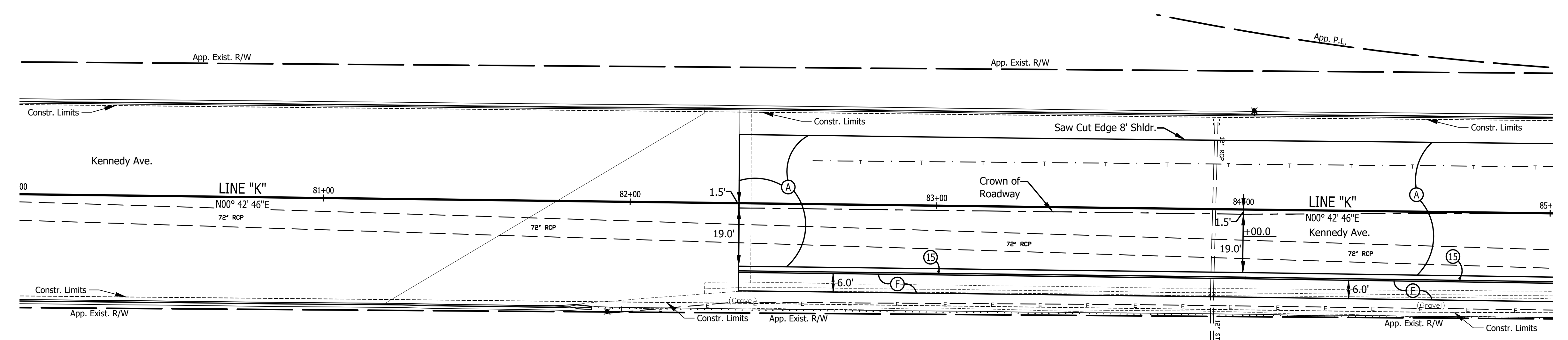
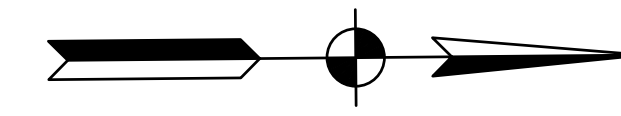
RECOMMENDED FOR APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_  
 DESIGN ENGINEER  
 DESIGNED: T.F.S. DRAWN: T.F.S.  
 CHECKED: D.W.C. CHECKED: D.W.C.

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 PLAN & PROFILE  
 KENNEDY AVE.

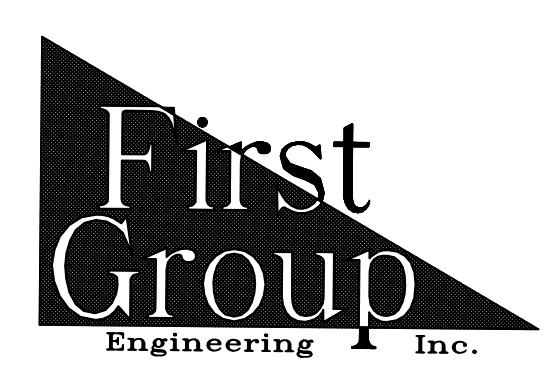
HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	1901902
SURVEY BOOK	SHEETS
N/A	13 of XX
CONTRACT	PROJECT
R-42312	1901902



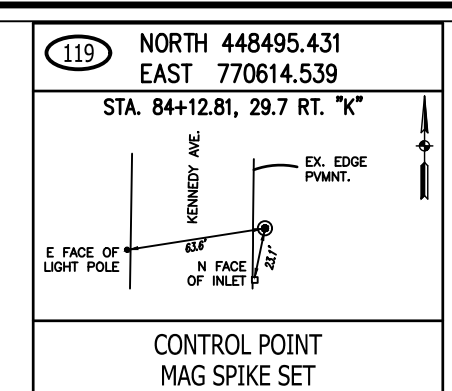
80 81 82 83 84 85



All Existing Topography Described From Line "E"  
 T.B.M. No. 19 Cut "X" in West End of Top of Barrier  
 1385' N. of C.L. of 161st St.  
 Sta. 84+03.20 "K", 31.46' Lt.  
 Elev. 613.57



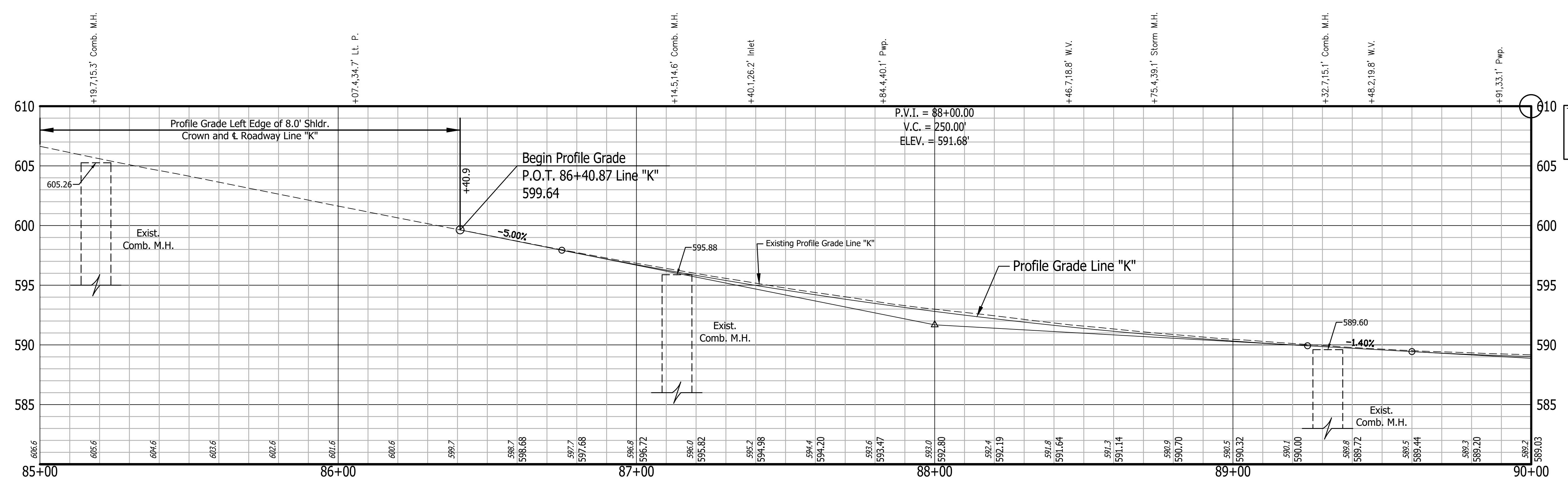
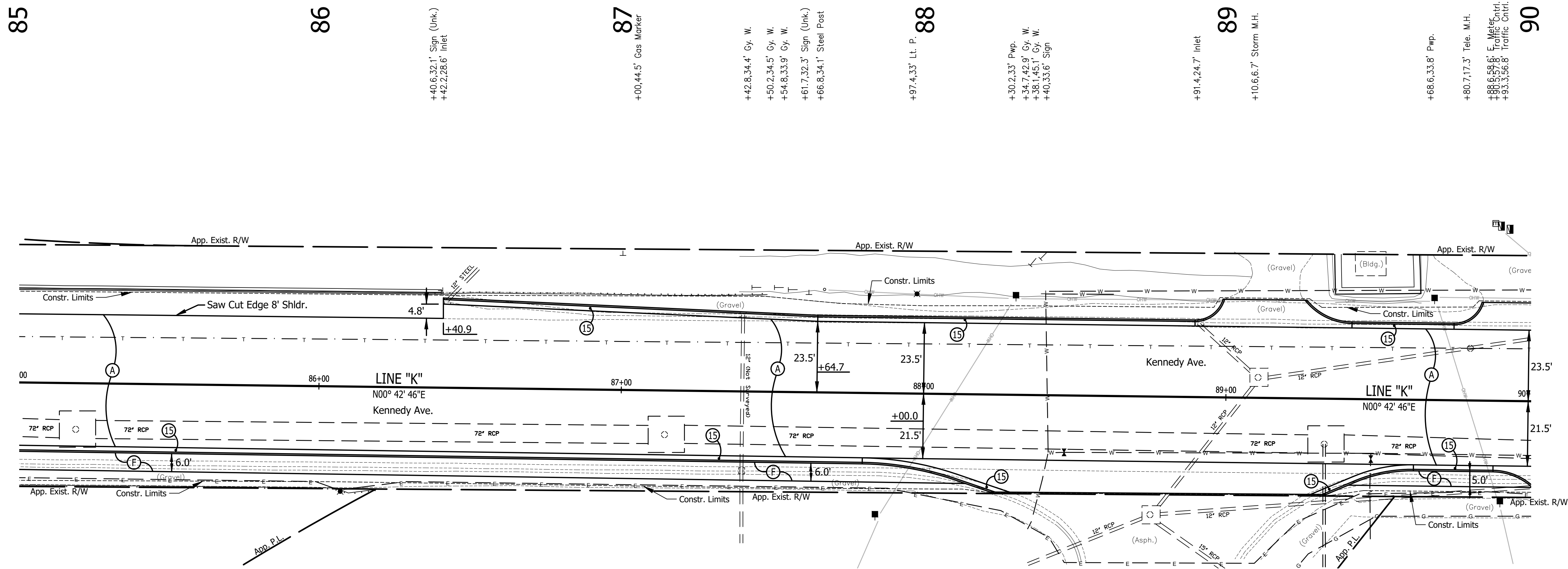
5925 Lakeside Blvd.  
 Indianapolis, Indiana 46278  
 Phone (317) 290-9549



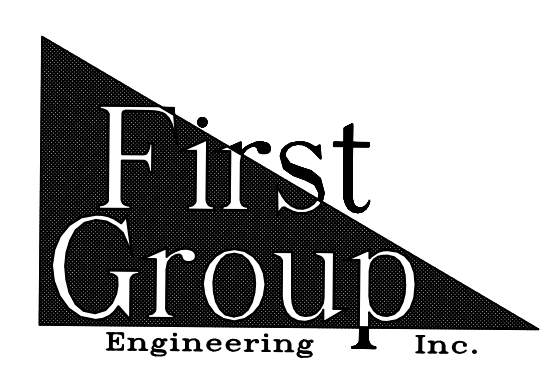
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: T.F.S.	DRAWN: T.F.S.	
CHECKED: D.W.C.	CHECKED: D.W.C.	

INDIANA DEPARTMENT OF TRANSPORTATION  
**PLAN & PROFILE**  
**KENNEDY AVE.**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	1901902
SURVEY BOOK	SHEETS
N/A	14 of XX
CONTRACT	PROJECT
R-42312	1901902



T.B.M. No. 20 Bench Tie 1.7' Above Ground W. Side Pwp.  
 #76-311. 605' S. of C.L. of Michigan St.  
 Along E. Side of Kennedy Ave.  
 Sta. 89+90.98 "K", 32.76' Rt.  
 Elev. 591.10



5925 Lakeside Blvd.  
 Indianapolis, Indiana 46278  
 Phone (317) 290-9549

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: T.F.S.	DRAWN: T.F.S.	
CHECKED: D.W.C.	CHECKED: D.W.C.	

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 PLAN & PROFILE  
 KENNEDY AVE.

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	1901902
SURVEY BOOK	SHEETS
N/A	15 of XX
CONTRACT	PROJECT
R-42312	1901902



90

- +17.2,35.1' Pwp.
- +29.9,24.9' Inlet
- +43.9,48.1' Gas Marker
- +50.7,48.8' Gas Marker
- +53.5,48.7' Post (Metal)
- +79.2,45.5' Gas Marker
- +82.4,48.8' Gas Marker
- +88.8,49' Gas Marker
- +02.5,40.5' Post (6.5" Metal)
- +03.9,41.3' C.V.
- +19.4,34.6' Pwp.

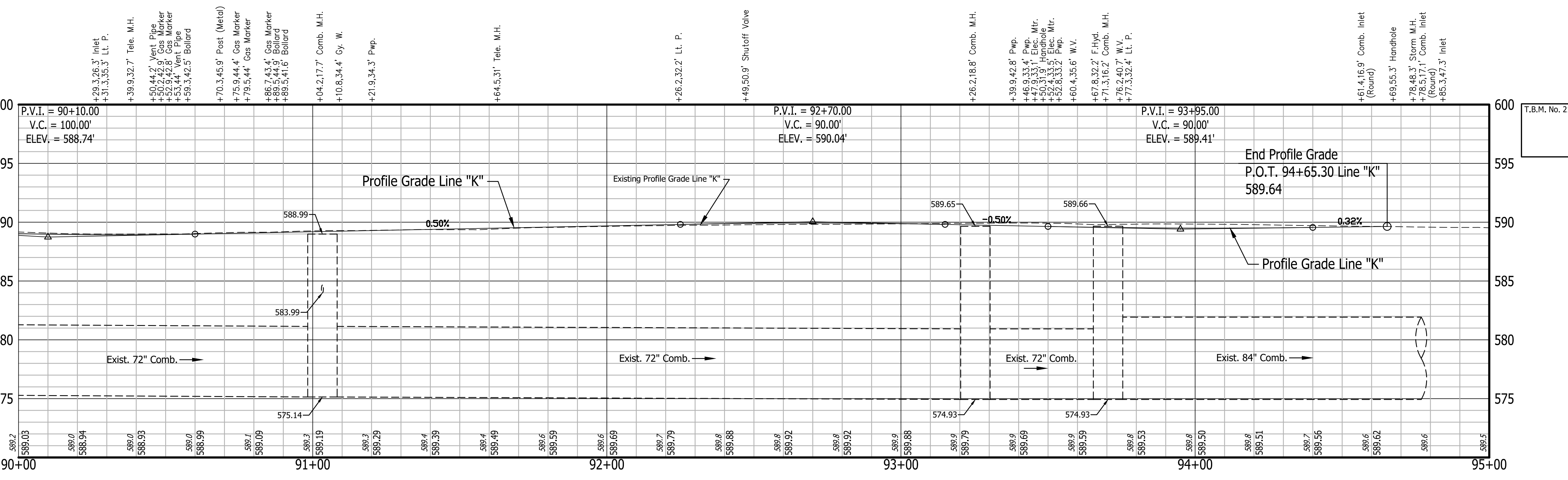
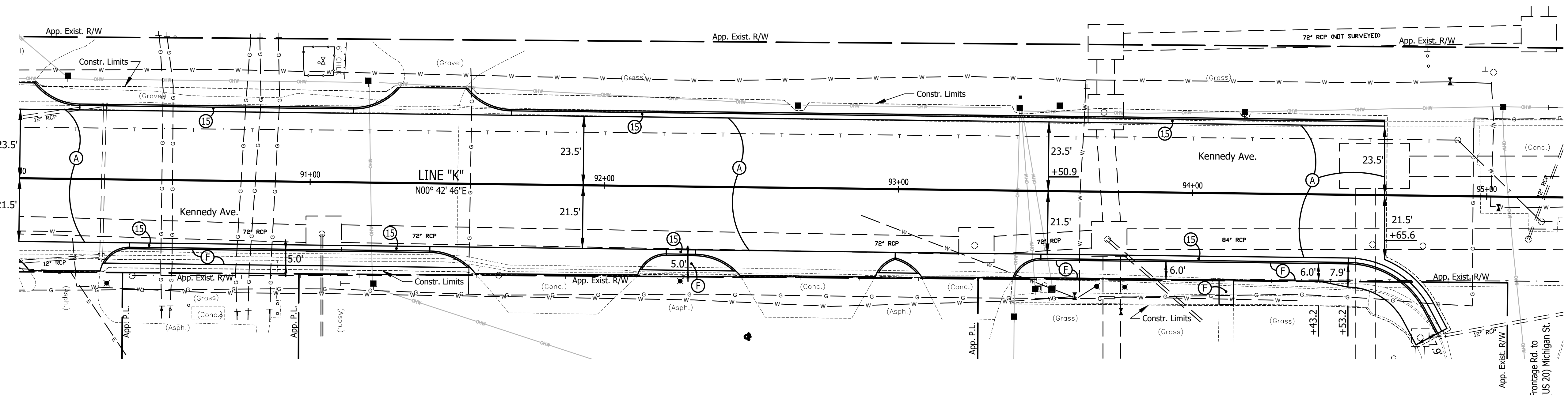
91

92

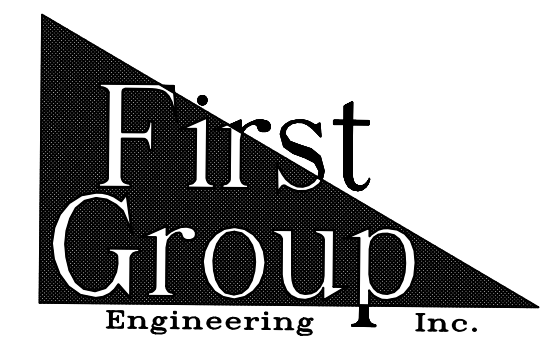
93

94

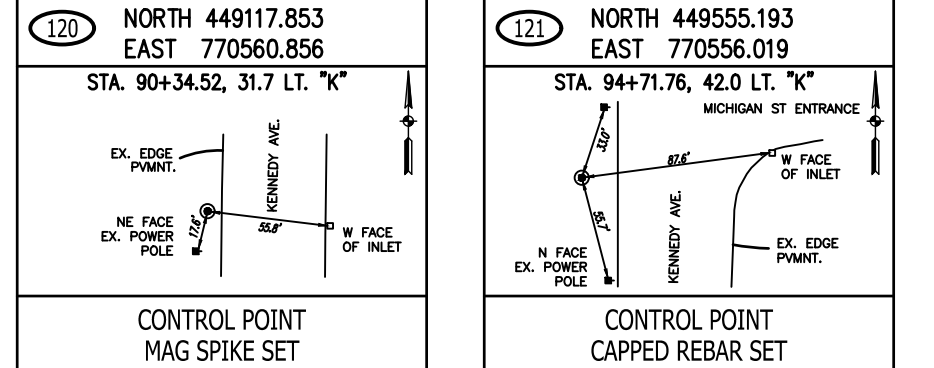
95



T.B.M. No. 21 Bench Tie 1.7' Above Ground E. Side Pwp. #58-156. 177' S. of C.L. of Michigan St. Along W. Side of Kennedy Ave. Sta. 94+17.33 "K", 326.87' Lt. Elev. 591.55



5925 Lakeside Blvd.  
 Indianapolis, Indiana 46278  
 Phone (317) 290-9549



RECOMMENDED FOR APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_  
 DESIGN ENGINEER \_\_\_\_\_  
 DESIGNED: T.F.S. DRAWN: T.F.S.  
 CHECKED: D.W.C. CHECKED: D.W.C.

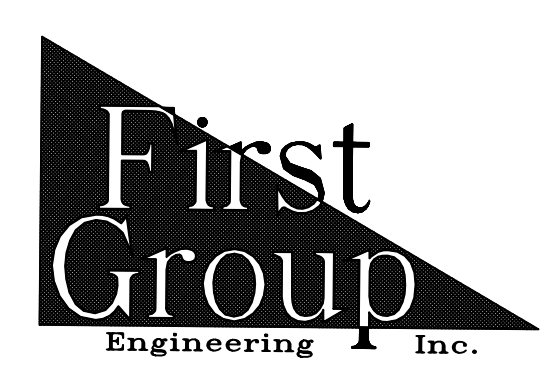
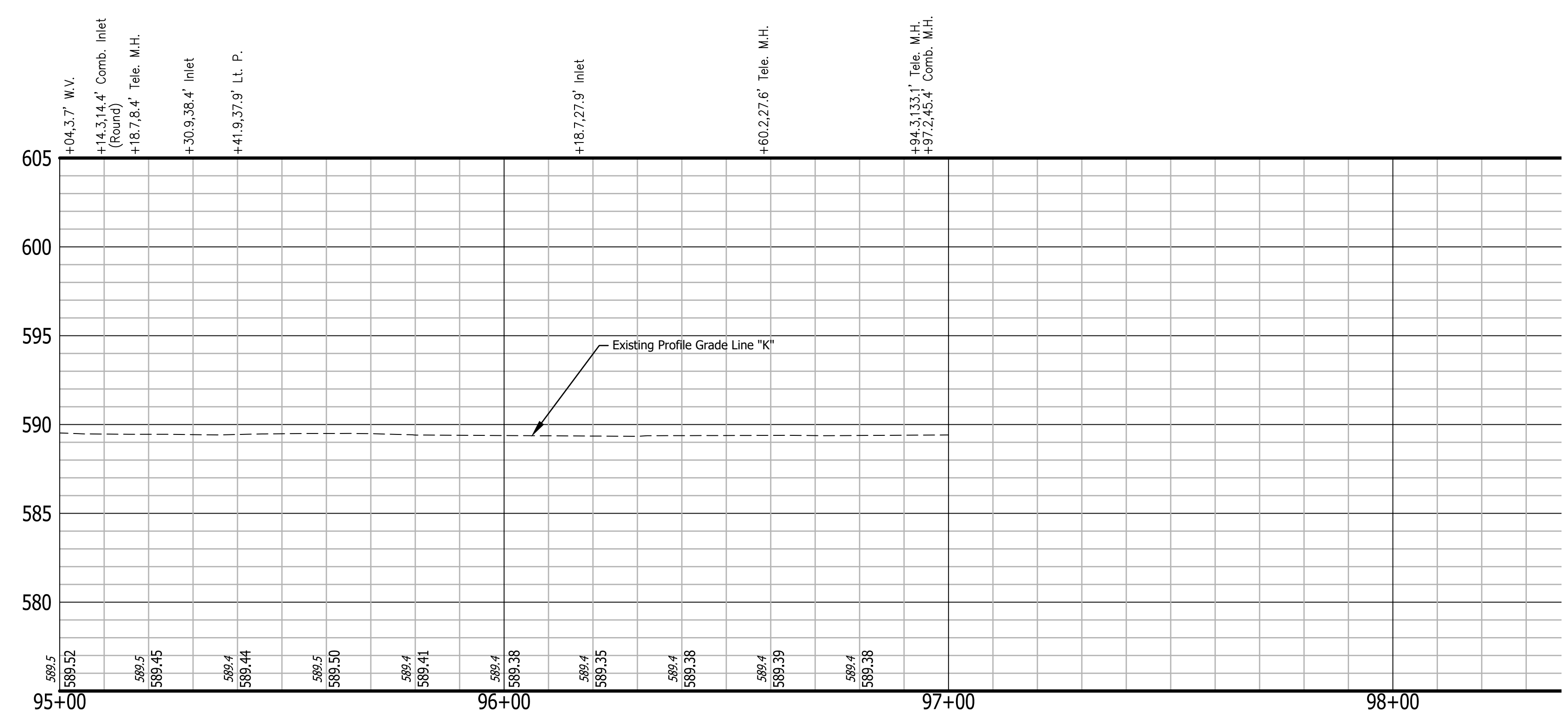
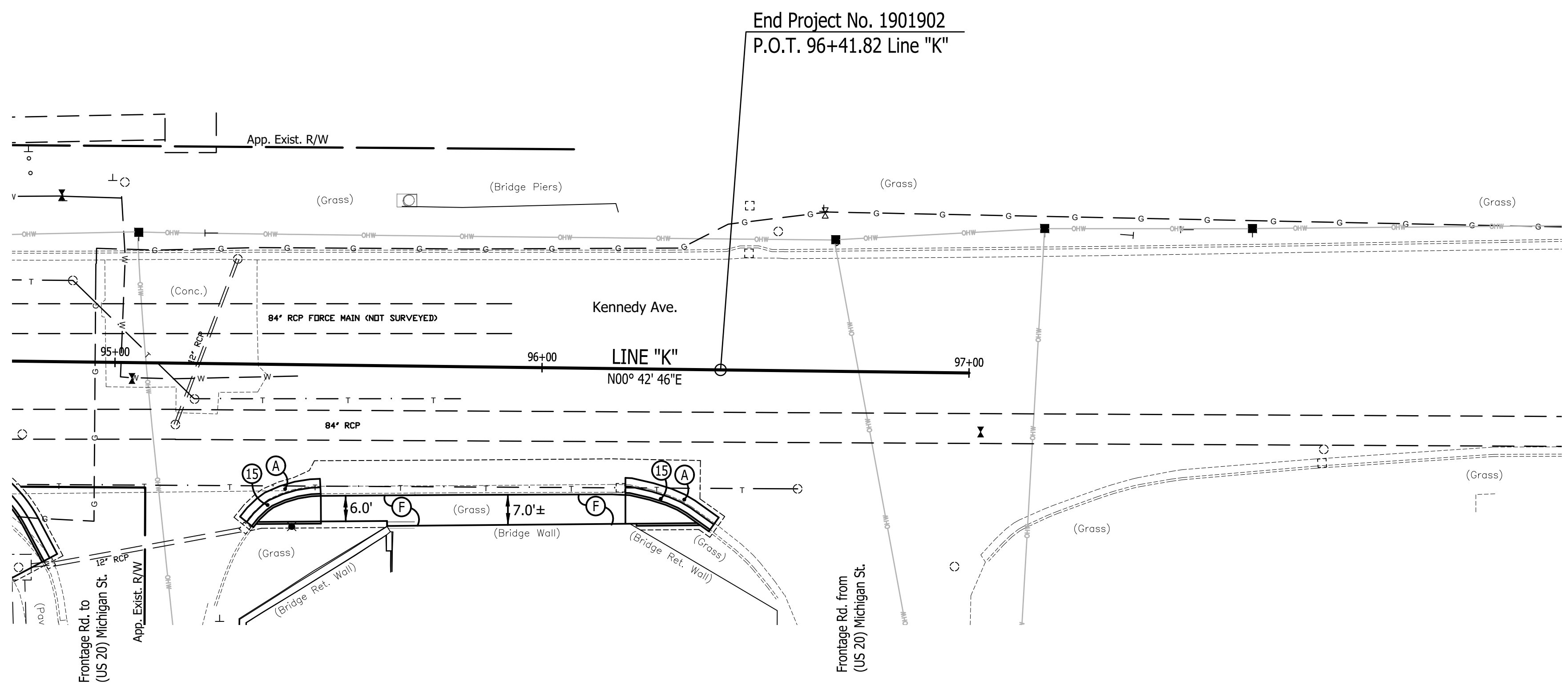
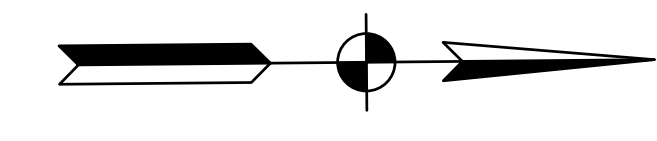
INDIANA DEPARTMENT OF TRANSPORTATION  
**PLAN & PROFILE**  
**KENNEDY AVE.**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	1901902
SURVEY BOOK	SHEETS
N/A	16 of XX
CONTRACT	PROJECT
R-42312	1901902

95  
 +01.8,42.2' Water, M.H.  
 +05.2,30.5' Pwp.  
 +20.7,30.6' Cy. W.  
 +28.5,24.6' Inlet (Round)

96

97  
 +48.1,27.4' Inlet  
 +48.2,36.6' Inlet  
 +54.9,32.6' Tele. M.H.  
 +65.5,37.4' Sign  
 +65.9,37.5' C.V.  
 (No. 58-154)  
 +68.6,29.9' Pole



5925 Lakeside Blvd.  
 Indianapolis, Indiana 46278  
 Phone (317) 290-9549

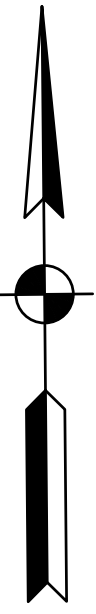
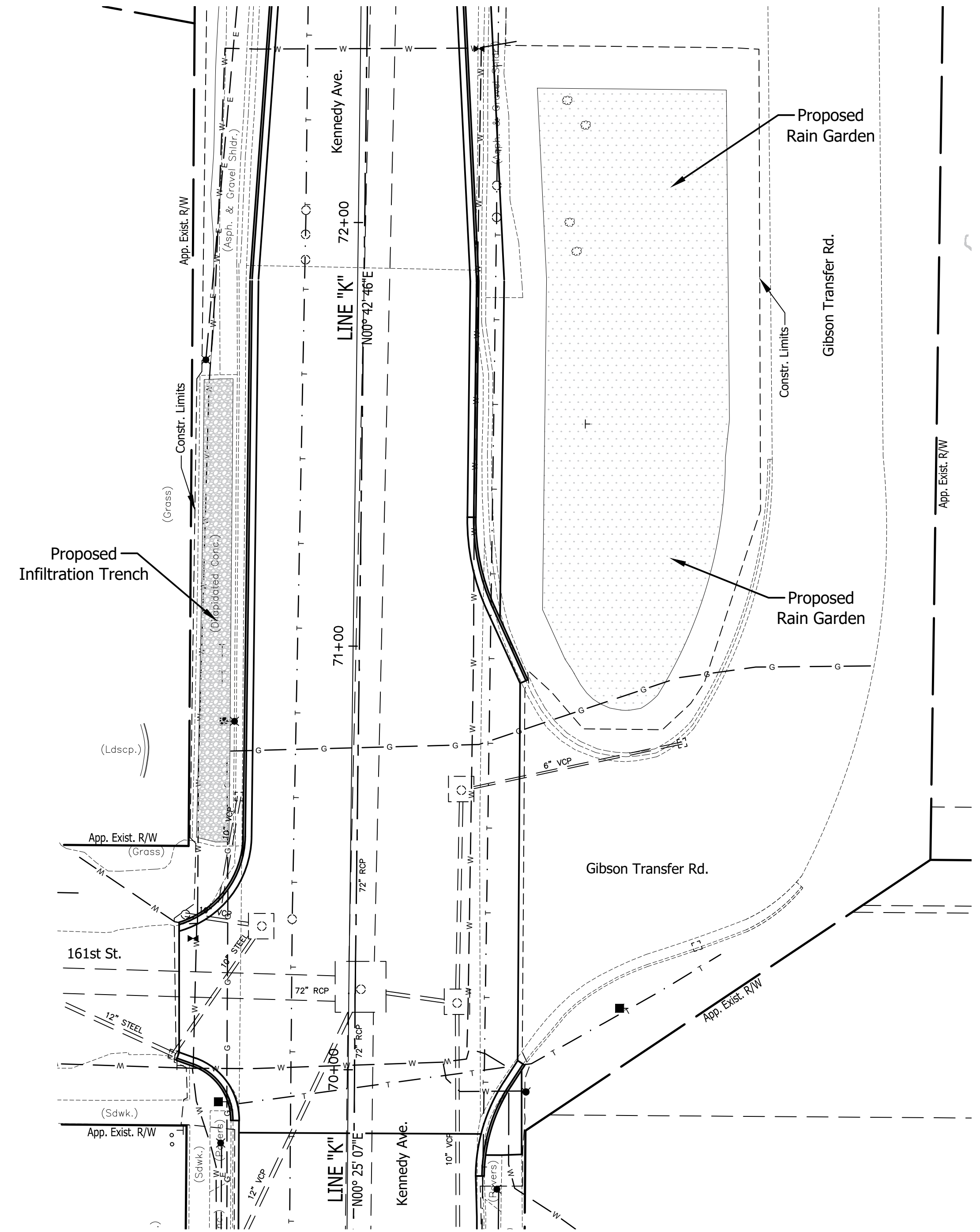
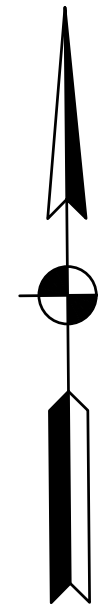
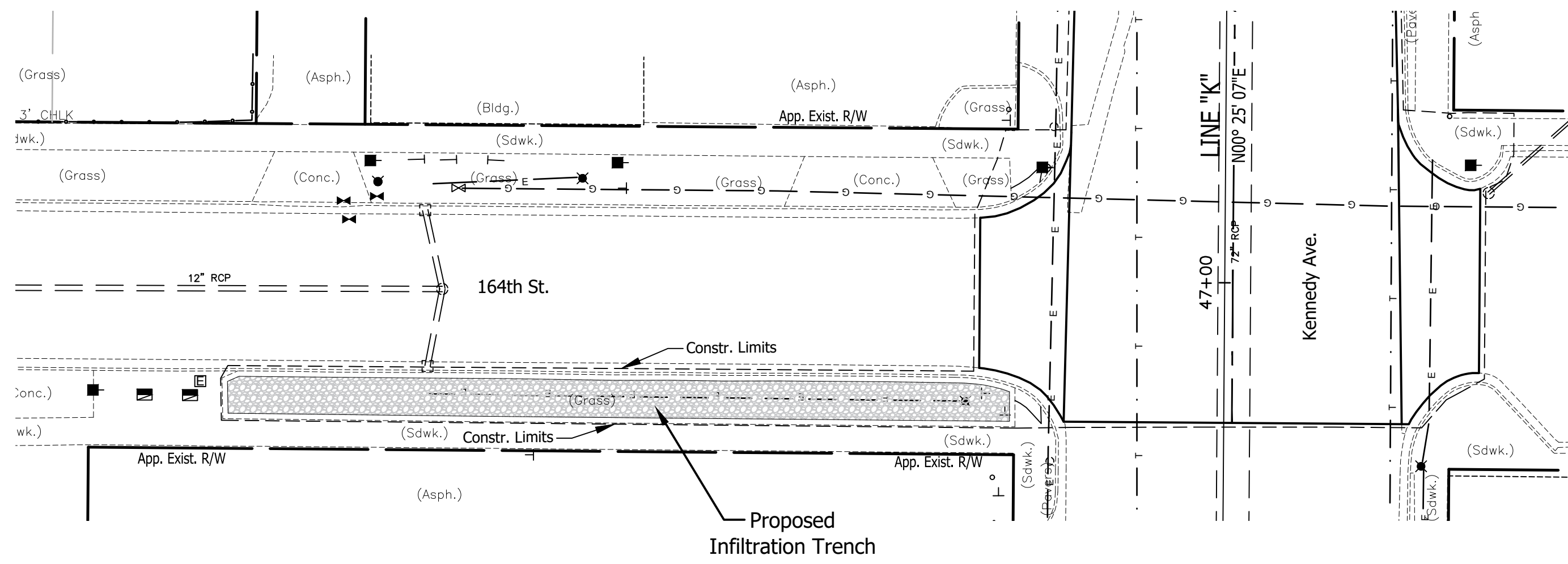
RECOMMENDED FOR APPROVAL _____	
DESIGN ENGINEER _____	DATE _____
DESIGNED: T.F.S.	DRAWN: T.F.S.
CHECKED: D.W.C.	CHECKED: D.W.C.

**INDIANA  
 DEPARTMENT OF TRANSPORTATION**

**PLAN & PROFILE  
 KENNEDY AVE.**

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 5'	DESIGNATION 1901902
SURVEY BOOK N/A	SHEETS 17 of XX
CONTRACT R-42312	PROJECT 1901902





RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: C.E.S./B.M.S.	DRAWN: B.M.S.	
CHECKED: C.E.S./B.M.S.	CHECKED: D.W.C.	

**INDIANA  
DEPARTMENT OF TRANSPORTATION**

**GREEN  
INFRASTRUCTURE DETAILS**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1901902
SURVEY BOOK	SHEETS
N/A	18 of XX
CONTRACT	PROJECT
R-42312	1901902

45

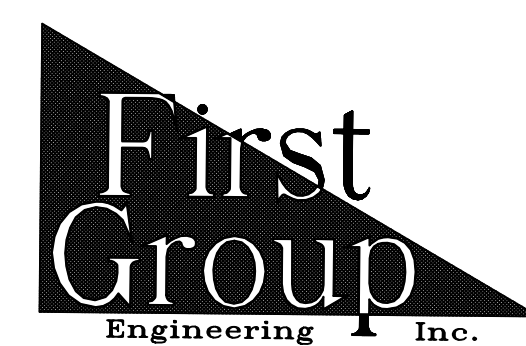
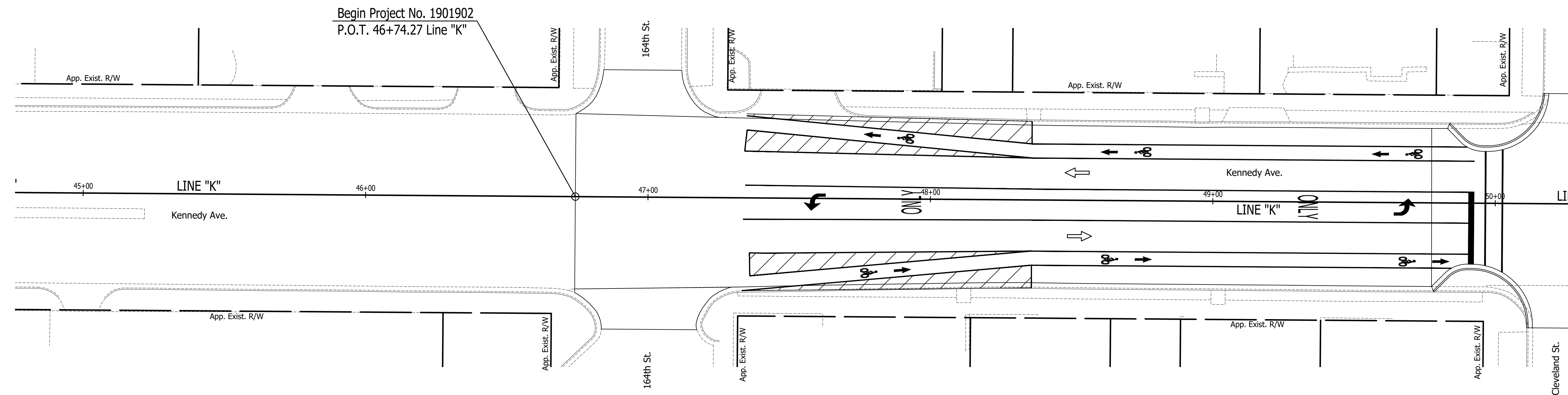
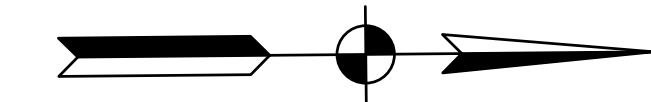
46

47

48

49

50



5925 Lakeside Blvd.  
 Indianapolis, Indiana 46278  
 Phone (317) 290-9549

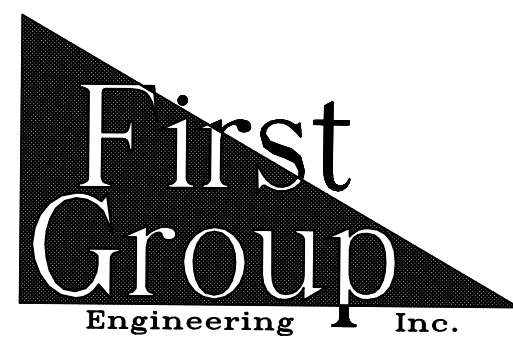
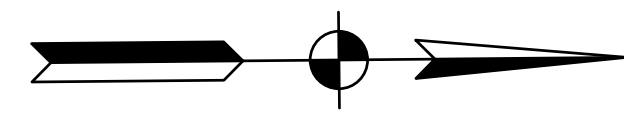
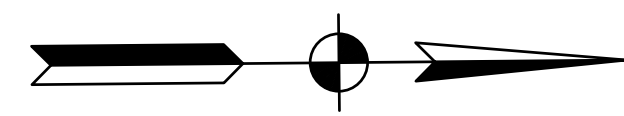
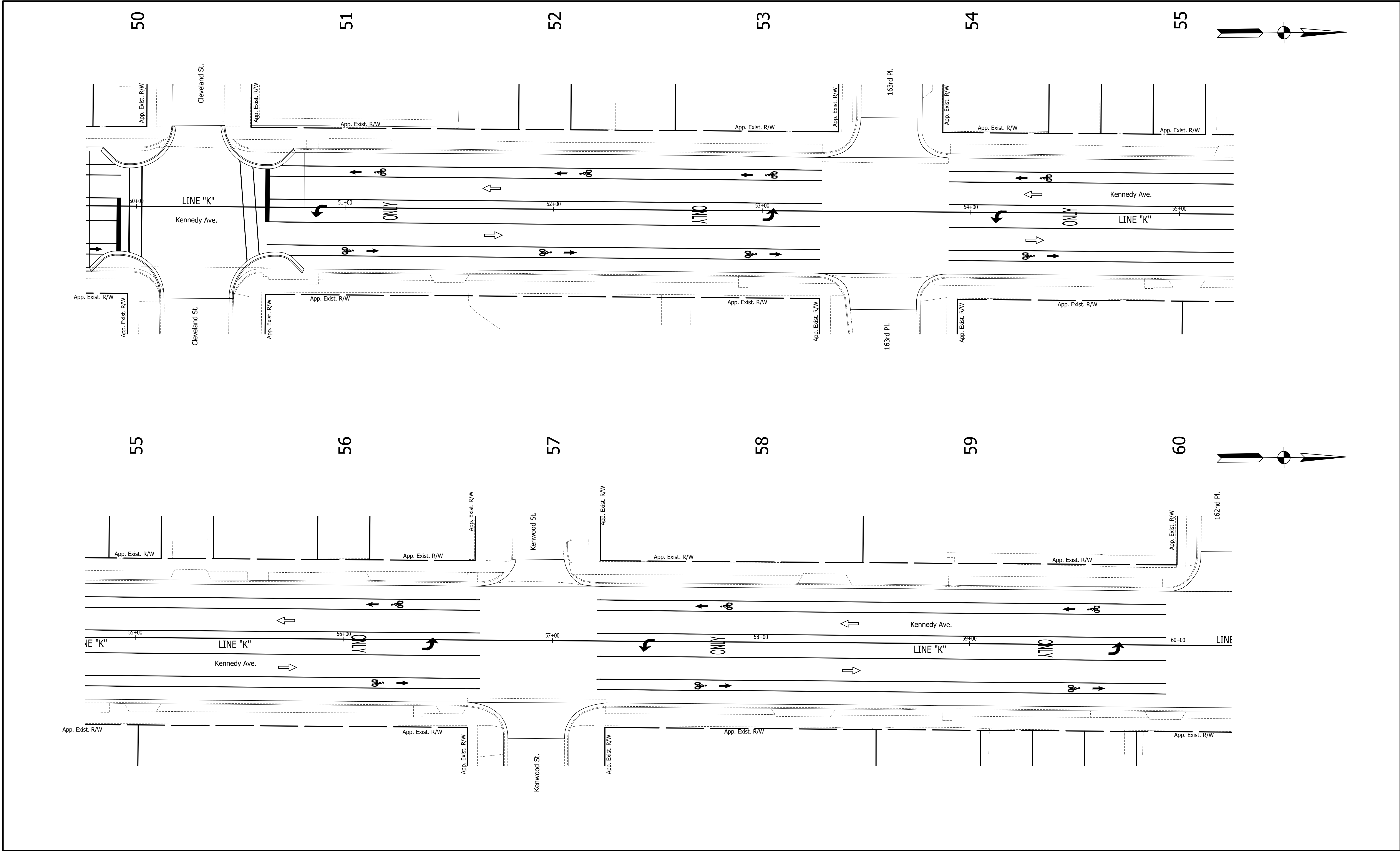
FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
DESIGNED: C.E.S./B.M.S.	DRAWN: T.F.S./B.M.S.		
CHECKED: C.E.S./B.M.S.	CHECKED: D.W.C.		

**INDIANA  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING &  
 SIGNING DETAILS**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1901902
SURVEY BOOK	SHEETS
N/A	19 of XX
CONTRACT	PROJECT
R-42312	1901902





5925 Lakeside Blvd.  
 Indianapolis, Indiana 46278  
 Phone (317) 290-9549

FOR APPROVAL \_\_\_\_\_  
 DESIGN ENGINEER DATE

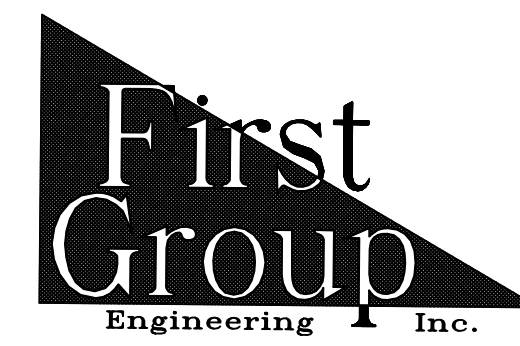
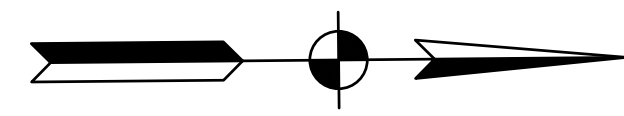
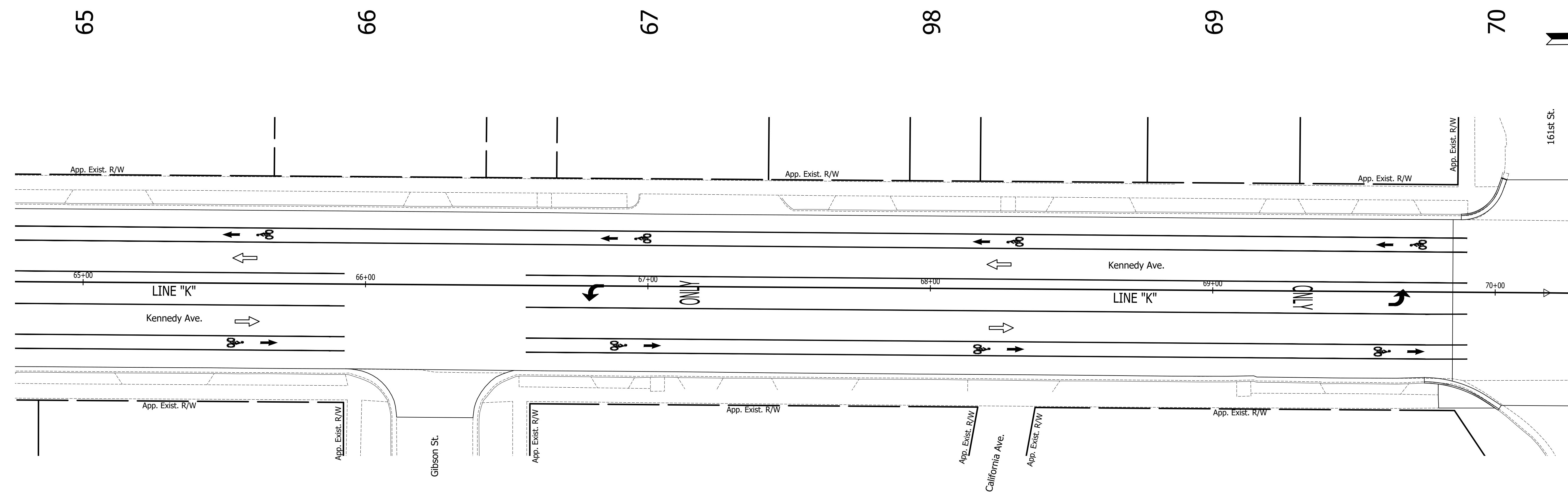
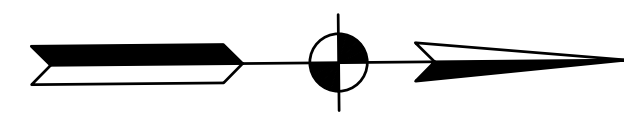
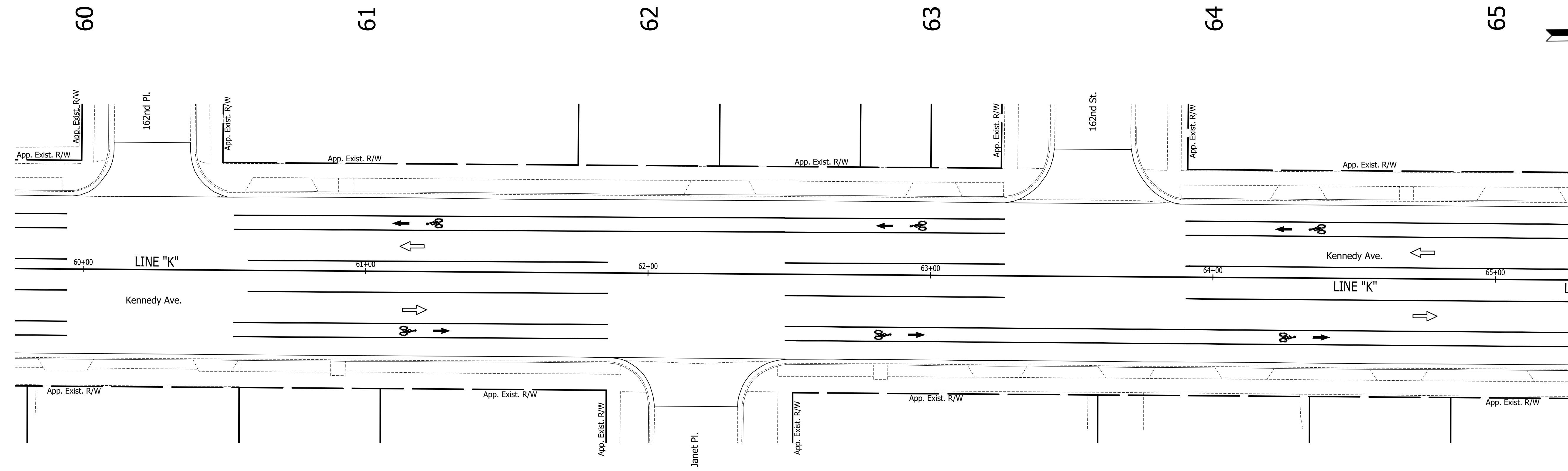
DESIGNED: C.E.S./B.M.S. DRAWN: T.F.S./B.M.S.

CHECKED: C.E.S./B.M.S. CHECKED: D.W.C.

INDIANA  
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING &  
 SIGNING DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1901902
SURVEY BOOK	SHEETS
N/A	20 of XX
CONTRACT	PROJECT
R-42312	1901902



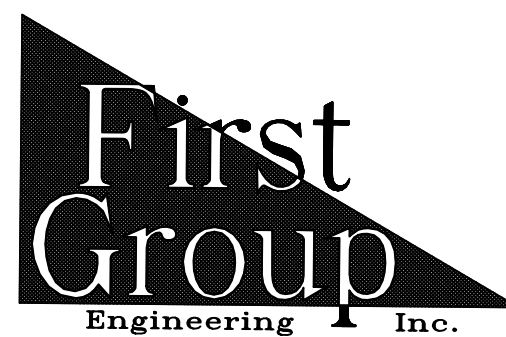
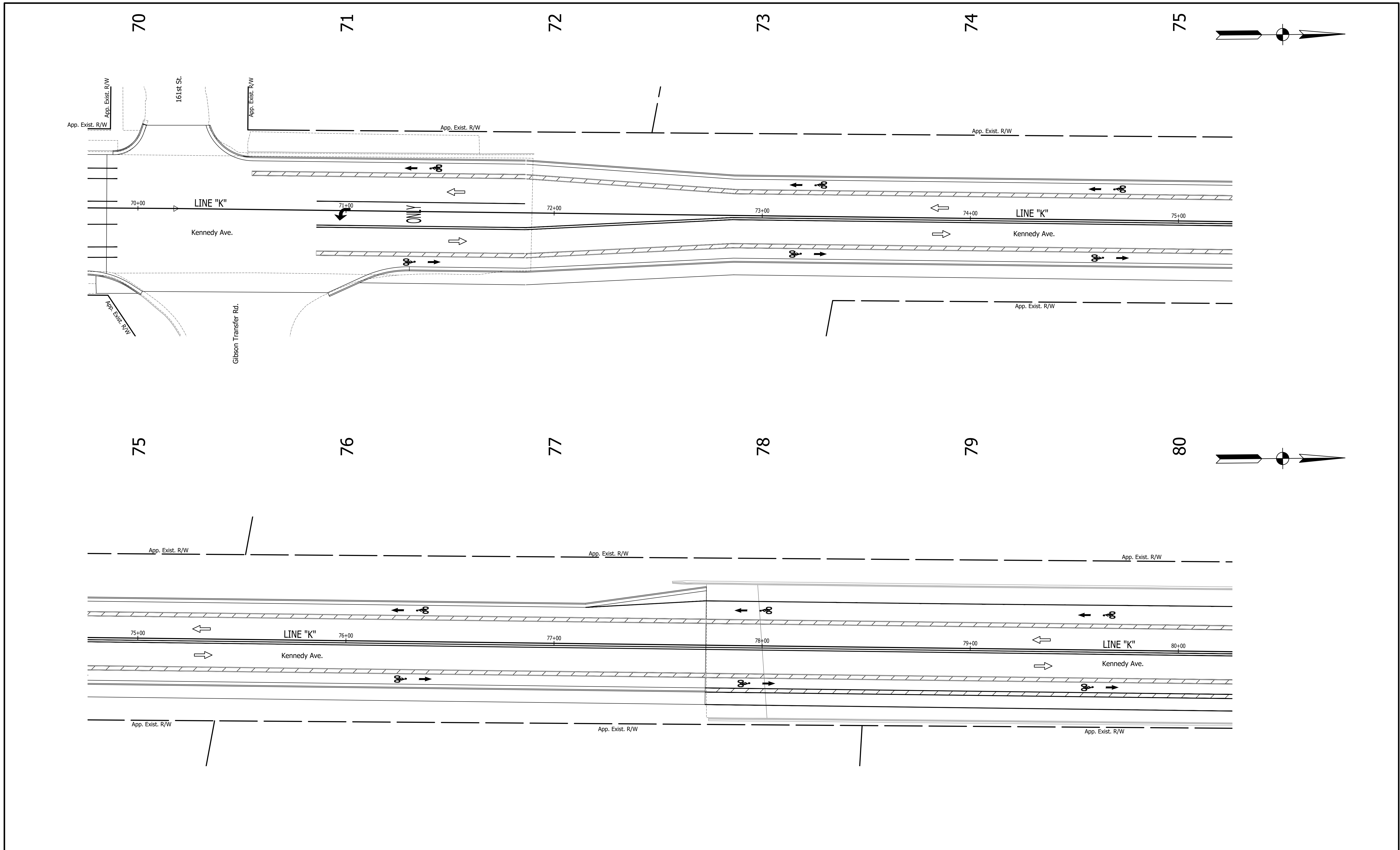
5925 Lakeside Blvd.  
 Indianapolis, Indiana 46278  
 Phone (317) 290-9549

FOR APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_  
 DESIGN ENGINEER  
 DESIGNED: C.E.S./B.M.S. DRAWN: T.F.S./B.M.S.  
 CHECKED: C.E.S./B.M.S. CHECKED: D.W.C.

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 PAVEMENT MARKING &  
 SIGNING DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1901902
SURVEY BOOK	SHEETS
N/A	21 of XX
CONTRACT	PROJECT
R-42312	1901902



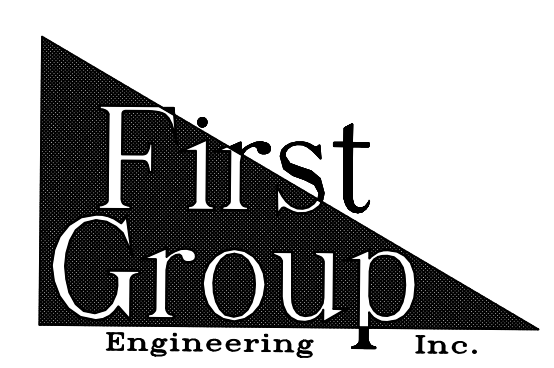
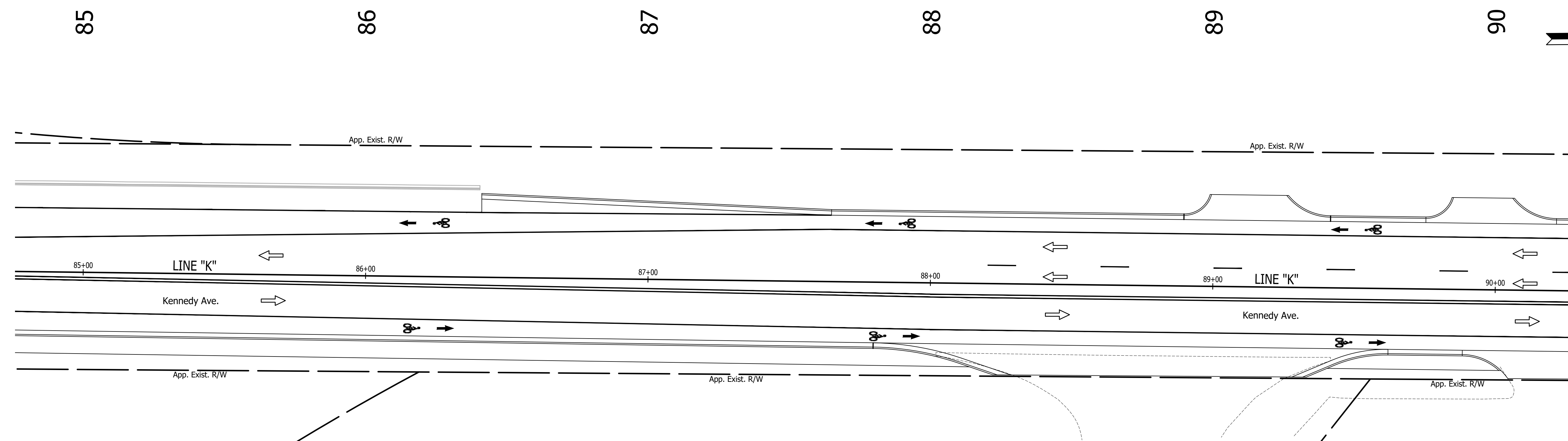
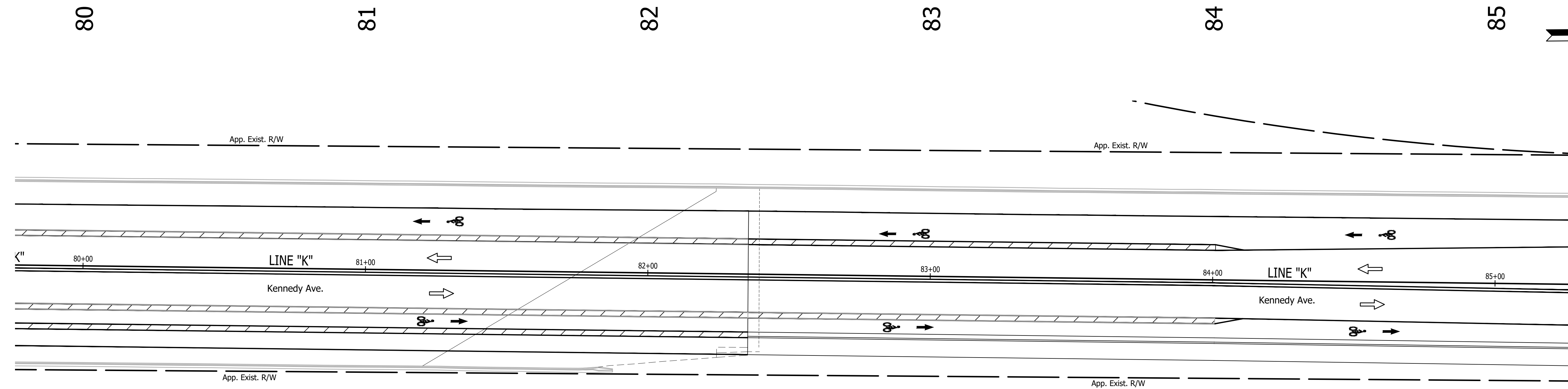


5925 Lakeside Blvd.  
 Indianapolis, Indiana 46278  
 Phone (317) 290-9549

FOR APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_  
 DESIGN ENGINEER  
 DESIGNED: C.E.S./B.M.S. DRAWN: T.F.S./B.M.S.  
 CHECKED: C.E.S./B.M.S. CHECKED: D.W.C.

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 PAVEMENT MARKING &  
 SIGNING DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1901902
SURVEY BOOK	SHEETS
N/A	22 of XX
CONTRACT	PROJECT
R-42312	1901902



5925 Lakeside Blvd.  
 Indianapolis, Indiana 46278  
 Phone (317) 290-9549

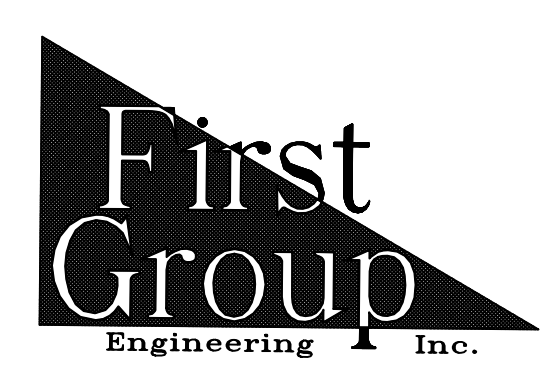
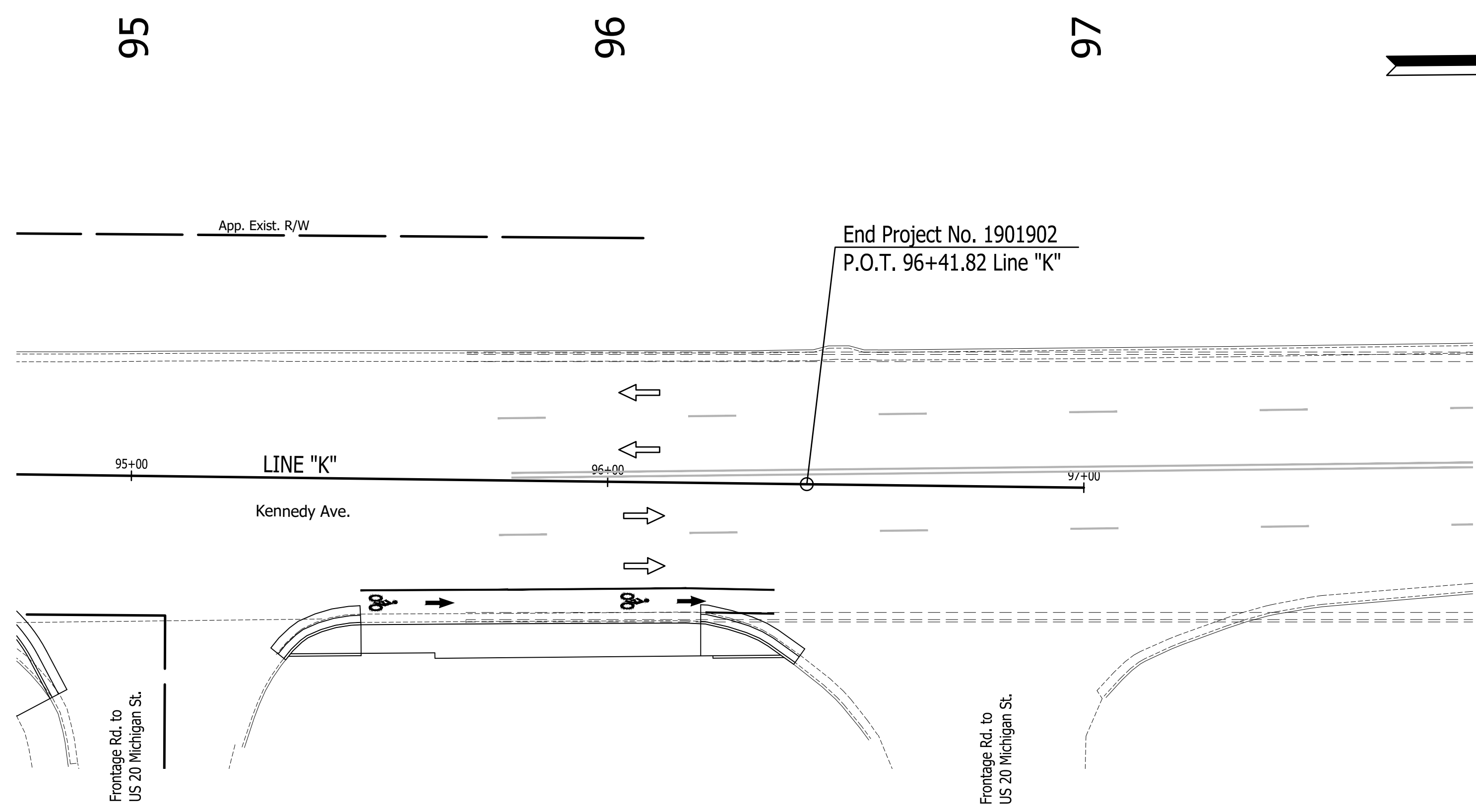
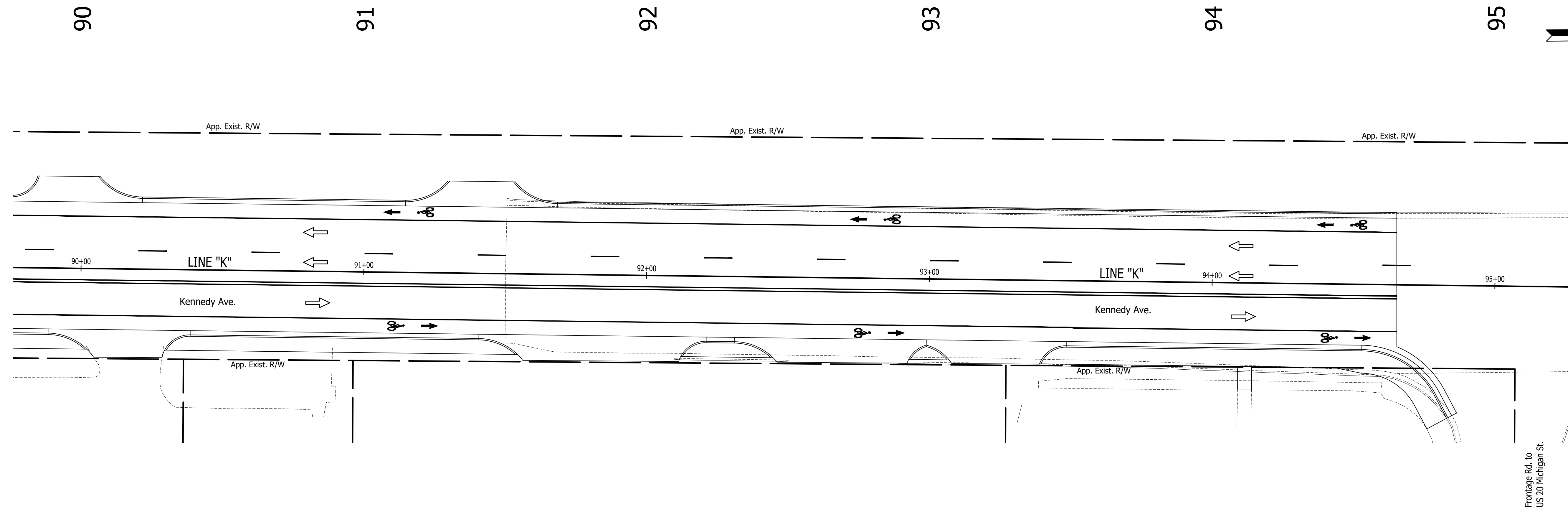
FOR APPROVAL _____		DESIGN ENGINEER	DATE
DESIGNED: C.E.S./B.M.S.	DRAWN: T.F.S./B.M.S.		
CHECKED: C.E.S./B.M.S.	CHECKED: D.W.C.		

**INDIANA  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING &  
 SIGNING DETAILS**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1901902
SURVEY BOOK	SHEETS
N/A	23 of XX
CONTRACT	PROJECT
R-42312	1901902





5925 Lakeside Blvd.  
 Indianapolis, Indiana 46278  
 Phone (317) 290-9549

FOR APPROVAL _____		DESIGN ENGINEER	DATE
DESIGNED: C.E.S./B.M.S.	DRAWN: T.F.S./B.M.S.		
CHECKED: C.E.S./B.M.S.	CHECKED: D.W.C.		

**INDIANA  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING &  
 SIGNING DETAILS**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1901902
SURVEY BOOK	SHEETS
N/A	24 of XX
CONTRACT	PROJECT
R-42312	1901902

**Categorical Exclusion**  
**Appendix C**  
**Early Coordination**



Example Early Coordination Letter

October 18, 2021

Re: Agencies Early Coordination  
Designation (Des.) No. 1901902  
Roadway Project  
Kennedy Avenue (Ave.), From 164<sup>th</sup> Place to United States (US) 20/Michigan Street  
City of Hammond, Lake County, Indiana

Dear «Position»,

The Federal Highway Administration (FHWA) and the City of Hammond propose to proceed with a roadway project located on Kennedy Ave. in Lake County, Indiana. The FHWA is providing funds and is designated as the lead Federal agency. This letter is part of the early coordination phase of the environmental review process. 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. We will incorporate your comments into a study of the project's environmental impacts.**

**Project Location**

Please note that there was a minor change in the project termini after ECL letters were sent out. This project will extend to the **north exit ramp** to US 20/Michigan St., for a total project length of 4,968 feet (0.94 mile). Due to the minor change, re-coordination was not conducted.

The project is located on Kennedy Ave. and extends from the south approach of 164<sup>th</sup> Place north **approximately 4,800 feet to the south access road to Michigan St.** (US 20), excluding the County Bridge (National Bridge Inventory [NBI]: 4500185) over several railroad tracks that is approximately 465 feet in length from bridge approach to bridge approach. This project can be further describe as being in Section 4, Township 36 North, and Range 9 West of the Highland U.S. Geological Survey (USGS) Quadrangle. This project is located within a highly urbanized area mainly consisting of commercial properties. See Appendix A for project area maps and photographs.

**Existing Conditions**

Kennedy Ave. is a Minor Arterial Roadway and is not part of the of the National Highway System (NHS) or the National Truck Network (NTN). Kennedy Ave. is currently a four-lane roadway with two lanes in each direction with limited street parking on both sides along the south half of the project from 164<sup>th</sup> Place north to 161<sup>st</sup> Street. The south half of the project is a built-up commercial area with curb and gutter at the edges of the pavement and sidewalks between the curb and buildings, including a stamped brick paver buffer. The existing pavement is asphalt over concrete and is considered to be in poor condition. North of 161<sup>st</sup> Street the sidewalk ends and the grade rises to a County Bridge over several railroad tracks and then descends to meet the existing grade north of the railroad tracks where the project terminates just south of the south access road to Michigan Street (US 20). The existing pavement north of 161<sup>st</sup> Street is concrete and is also considered to be in poor condition. The existing typical cross section for this segment is 48 ft. of pavement with curb and gutter and approximately 5 ft. wide gravel shoulder behind the gutter with guardrail or concrete barriers beyond the shoulder. The 5 ft. wide gravel shoulders taper to zero width near the bridge approaches where an approximate 8 ft. wide clear shoulder is provided across the bridge. The posted speed limit northbound and southbound is 35 miles per hour (mph) and based on current traffic data it indicates that this roadway is limited to small size local delivery trucks including trash trucks, fire engines, etc. The existing right-of-way (ROW) varies throughout the project area. Generally, the existing ROW extends to the back of sidewalk from 164th Place north to 161st St. The existing ROW extends 40 ft. from each side of the roadway from 161st St. north to the end of the project.

The draft need for this project is due to the poor condition of the pavement which is exhibiting large areas of cracking and the wearing surface is generally rough throughout the project limits. In addition, there is a lack of bicycle facilities and inadequate

parking along Kennedy Ave. The draft purpose of this project is to improve the overall pavement condition, enhance parking along Kennedy Ave., and to facilitate the need for bicycle facilities.

### **Proposed Conditions**

The preferred alternative for this project proposes to change the current lane configuration from two lanes in each direction to one lane in each direction (“road diet”) with a Two Way Left Turn Lane (TWLTL) between the travel lanes. The TWLTL would transition to left turn only lanes at the intersections. To reduce the distance and time it takes pedestrians to cross Kennedy Ave., bump outs would be provided at the signalized intersection located at Cleveland Street. The bump outs would also create a calming effect by reducing the width of the pavement that typically causes motorists to slow down and be more cautious. The proposed typical cross section from 164<sup>th</sup> Place to 161<sup>st</sup> Street would generally be one 11 ft. wide travel lane in each direction with an 11 ft. wide TWLTL or designated left turn lane between the travel lanes. Lane widths may vary from 11 ft. to 12 ft. A 5 ft. wide bicycle lane is proposed to be placed at the outside edge of the travel lanes with an 8 ft. wide parking lane between the bicycle lane and the curb. The total width of this typical section is 59 ft. from face of curb to face of curb and generally matches the existing distance between the curbs. From 161<sup>st</sup> Street north to the end of the project the proposed typical cross section would consist of one 12 ft. wide travel lane in each direction with a minimum 2 ft. wide buffer and 5 to 7 ft. wide bicycle lanes to be placed at the outside edges of the travel lanes. The treatment beyond the edge of the bicycle lanes would differ for the east side and west sides. For the west side or southbound lane, it is proposed to replace the existing V gutter with new V gutter or install new curb and gutter and tie into the existing gravel shoulder. For the east or northbound lane, it is proposed to place barrier curb and gutter with a 5 to 6 ft. wide sidewalk behind the curb. There are no adjacent drives or streets north of 161<sup>st</sup> St. so a TWLTL is not needed along this section of roadway.

The proposed pavement treatment would consist of milling the existing pavement down 4 to 8 inches and resurfacing/recycling 4 to 8 inches with some areas needing patching or full depth reconstruction with Hot Mixed Asphalt (HMA) from the south approach of 164<sup>th</sup> Place north to 161<sup>st</sup> Street on Kennedy Ave. The pavement on 161<sup>st</sup> Street would be reconstructed to the south end of the County Bridge and from the north end of the County Bridge to the south access road for US 20/Michigan Street. This project also proposes to reconfigure the traffic signals at the Cleveland St. and Kennedy Ave. intersection to accommodate the new lane configuration. This is the only intersection within the project area that is signalized. Curb ramps at roadway intersections that do not currently meet Americans with Disabilities Act (ADA) standards would be replaced or modified to meet current ADA standards. In addition, sidewalk and driveway approaches would be repaired or replaced as necessary. Minimal work is anticipated for the sewer system due to the proposed scope of work. Reconstructing around manholes or drainage inlets that are disturbed during the road work may occur and structure castings may need replaced, adjusted, or added to accommodate any minor changes in the grade or planned bioretention system treatments. The type of bioretention systems being considered consist of bioretention curbs, infiltration trenches, bio-swales, rain gardens, and natural vegetation. These may be used separately or in conjunction with each other at various locations available within the existing ROW. Additionally, pavement markings and signs would be reconfigured and placed from approximately 300 feet north of the south access road for US 20/Michigan Street to the end of the project to tie in the lane reductions.

No additional permanent or temporary ROW is anticipated to be acquired as part of this project. Some tree clearing/trimming may be needed but exact locations and amounts are not known at this time. Construction is anticipated to begin in Late Fall of 2023 or early Spring of 2024.

The Maintenance of Traffic (MOT) plan for this project will consist of phased construction by completing work on one half of the roadway at a time. This will be done by reducing traffic from two lanes to one lane in each direction and shifted to one side of the existing roadway while the opposite side work is completed. When one side is complete then traffic will be shifted to the newly completed portion while the remaining half is completed.

To identify potential environmental concerns within the project vicinity, a Red Flag Investigation (RFI) was prepared by RQAW on September 22, 2021. Coordination with any applicable agencies/owners is occurring via this letter.

RQAW performed a site visit on September 08, 2021 to identify any ecological resources present. No streams or wetlands were observed within the project area.

The project is anticipated to qualify for the Range-wide Programmatic Agreement for the Indiana bat and northern long-eared bat by completing the Information for Planning and Consultation (IPaC).

Coordination will occur with INDOT Cultural Resources Office (CRO) to evaluate the project area for archaeological and historic resources and for Section 106 compliance. The results of this investigation will be forwarded to the State Historic Preservation Officer (SHPO) for review and concurrence, as appropriate.



Please provide your response within 30 calendar days from the date of this letter. However, if you feel an extension to the response time is necessary, a reasonable amount may be granted upon request. If you have any questions regarding this matter, please contact Harlan Ford of the Environmental Department at RQAW, at 317.588.1798 or [hford@rqaw.com](mailto:hford@rqaw.com), or the Employee Responsible in Charge (ERC), Mr. Mark Gordish, with the City of Hammond at 219-853-6336 or [gordishm@gohammond.com](mailto:gordishm@gohammond.com).

In an effort to reduce the file size of this letter, preliminary plans are not attached. Please contact Harlan Ford (contact information above) to request a copy of preliminary plans if desired.

Sincerely,



Harlan Ford  
Environmental Scientist  
RQAW Corporation

Project Maps and Photographs have been removed to avoid duplication and are included in Appendix B.

Appendices:

- ~~Appendix A: Project Maps and Photographs~~

Cc:

- INDOT LaPorte District (electronic coordination)
- Federal Highway Administration (electronic coordination)
- Indiana Geological and Water Survey (electronic coordination)
- IDNR Division of Fish and Wildlife (electronic coordination)
- IDEM (electronic coordination)
- USACE (electronic coordination)
- INDOT Office of Aviation (electronic coordination)
- Local Floodplain Administrator (electronic coordination)
- Municipal Separate Storm Sewer System (MS4) Coordinator (electronic coordination)
- U.S. Department of Housing and Urban Development (electronic coordination)
- National Park Service, Midwest Regional Office (electronic coordination)
- City of Hammond ADA Coordinator (electronic coordination)
- Hammond Engineering Department (electronic)
- Hammond Mayor's Office (electronic coordination)
- Hammond City Council (electronic coordination)
- Lake County Highway Department (electronic coordination)
- Lake County Council (electronic coordination)
- Lake County Surveyor (U.S. mail)
- New Mind Kingdom Ministries (U.S. mail)
- Hammond Parks and Recreation Department (U.S. mail)
- Hammond Planning and Development (U.S. mail)
- Hammond Water Works (U.S. mail)
- Hammond Environmental Management Office (U.S. mail)
- Hammond Sewer Maintenance Dept. (U.S. mail)
- Lake County Soil and Water Conservation District (U.S. mail)
- Lake County Board of Commissioners (U.S. mail)

Please note that the IDEM, Groundwater Section and the Northwestern Indiana Regional Planning Commission (NIRPC) were also sent a letter electronically on October 18, 2021, but was inadvertently omitted from the CC list.

In addition, please note that East Chicago Water Works and the Indiana American Water Company were sent electronic letters on October 21, 2021, based on IDEM's Groundwater Section Response.



# Indiana Department of Environmental Management

*We Protect Hoosiers and Our Environment.*

100 North Senate Avenue - Indianapolis, IN 46204  
(800) 451-6027 - (317) 232-8603 - [www.idem.IN.gov](http://www.idem.IN.gov)

City of Hammond  
Mark Gordish  
5925 Calumet Ave.  
Hammond , IN 46320  
Date

RQAW  
Harlan Ford  
8770 North St., Suite 110  
Fishers , IN 46038

To Engineers and Consultants Proposing Roadway Construction Projects:

RE: The project is located on Kennedy Ave. and extends from the south approach of 164th Place north approximately 4,800 feet to the south access road to Michigan St. (US 20), excluding the County Bridge (National Bridge Inventory [NBI]: 4500185) over several railroad tracks that is approximately 465 feet in length from bridge approach to bridge approach. This project can be further describe as being in Section 4, Township 36 North, and Range 9 West of the Highland U.S. Geological Survey (USGS) Quadrangle. The proposed pavement treatment would consist of milling the existing pavement down 4 to 8 inches and resurfacing/recycling 4 to 8 inches with some areas needing patching or full depth reconstruction with Hot Mixed Asphalt (HMA) from the south approach of 184th Place north to 161st Street on Kennedy Ave. The pavement on 181st Street would be reconstructed to the south end of the County Bridge and from the north end of the County Bridge to the south access road for US 20/Michigan Street. This project also proposes to reconfigure the traffic signals at the Cleveland St. and Kennedy Ave. intersection to accommodate the new lane configuration. This is the only intersection within the project area that is signalized. Curb ramps at roadway intersections that do not currently meet Americans with Disabilities Act (ADA) standards would be replaced or modified to meet current ADA standards. In addition, sidewalk and driveway approaches would be repaired or replaced as necessary. Minimal work is anticipated for the sewer system due to the proposed scope of work. Reconstructing around manholes or drainage inlets that are disturbed during the road work may occur and structure castings may need replaced, adjusted, or added to accommodate any minor changes in the grade or planned bioretention system treatments. The type of bioretention systems being considered consist of bioretention curbs, infiltration trenches, bio-swales, rain gardens, and natural vegetation. These may be used separately or in conjunction with each other at various locations available within the existing ROW. Additionally, pavement markings and signs would be reconfigured and placed from approximately 300 feet north of the south access road for US 20/Michigan Street to the end of the project to tie in the lane reductions. No additional permanent or temporary ROW is anticipated to be acquired as part of this project. Some tree clearing/trimming may be needed but exact locations and amounts are not known at this time. Construction is anticipated to begin in Late Fall of 2023 or early Spring of 2024.

This letter from the Indiana Department of Environmental Management (IDEM) serves as a standardized response to enquiries inviting IDEM comments on roadway construction, reconstruction, or other improvement projects within existing roadway corridors when the proposed scope of the project is beneath the threshold requiring a formal National Environmental Policy Act-mandated Environmental Assessment or Environmental Impact Statement. As the letter attempts to address all roadway-related environmental topics of potential concern, it is possible that not every topic addressed in the letter will be applicable to your particular roadway project.

For additional information on specific roadway-related topics of interest, please visit the appropriate Web pages cited below, many of which provide contact information for persons within the various program areas who can answer questions not fully addressed in this letter. Also please be mindful that some environmental requirements may be subject to change and so each person intending to include a copy of this letter in their project documentation packet is advised to download the most recently revised version of the letter; found at: <http://www.in.gov/idem/5283.htm> (<http://www.in.gov/idem/5283.htm>).

To ensure that all environmentally-related issues are adequately addressed, IDEM recommends that you read this letter in its entirety, and consider each of the following issues as you move forward with the planning of your proposed roadway construction, reconstruction, or improvement project:

## WATER AND BIOTIC QUALITY

1. Section 404 of the Clean Water Act requires that you obtain a permit from the U.S. Army Corps of Engineers (USACE) before discharging dredged or fill materials into any wetlands or other waters, such as rivers, lakes, streams, and ditches. Other activities regulated include the relocation, channelization, widening, or other such alteration of a stream, and the mechanical clearing (use of heavy construction equipment) of wetlands. Thus, as a project owner or sponsor, it is your responsibility to ensure that no wetlands are disturbed without the proper permit. Although you may initially refer to the U.S. Fish and Wildlife Service National Wetland Inventory maps as a means of identifying potential areas of concern, please be mindful that those maps do not depict jurisdictional wetlands regulated by the USACE or the Department of Environmental Management.



A valid jurisdictional wetlands determination can only be made by the USACE, using the 1987 Wetland Delineation Manual.

USACE recommends that you have a consultant check to determine whether your project will abut, or lie within, a wetland area. To view a list of consultants that have requested to be included on a list posted by the USACE on their Web site, see USACE Permits and Public Notices

(<http://www.lrl.usace.army.mil/orf/default.asp>) (<http://www.lrl.usace.army.mil/orf/default.asp>) and then click on "Information" from the menu on the right-hand side of that page. Their "Consultant List" is the fourth entry down on the "Information" page. Please note that the USACE posts all consultants that request to appear on the list, and that inclusion of any particular consultant on the list does not represent an endorsement of that consultant by the USACE, or by IDEM.

Much of northern Indiana (Newton, Lake, Porter, LaPorte, St. Joseph, Elkhart, LaGrange, Steuben, and Dekalb counties; large portions of Jasper, Starke, Marshall, Noble, Allen, and Adams counties; and lesser portions of Benton, White, Pulaski, Kosciusko, and Wells counties) is served by the USACE District Office in Detroit (313-226-6812). The central and southern portions of the state (large portions of Benton, White, Pulaski, Kosciusko, and Wells counties; smaller portions of Jasper, Starke, Marshall, Noble, Allen, and Adams counties; and all other Indiana counties located in north-central, central, and southern Indiana) are served by the USACE Louisville District Office (502-315-6733).

Additional information on contacting these U.S. Army Corps of Engineers (USACE) District Offices, government agencies with jurisdiction over wetlands, and other water quality issues, can be found at <http://www.in.gov/idem/4396.htm> (<http://www.in.gov/idem/4396.htm>). IDEM recommends that impacts to wetlands and other water resources be avoided to the fullest extent.

2. In the event a Section 404 wetlands permit is required from the USACE, you also must obtain a Section 401 Water Quality Certification from the IDEM Office of Water Quality Wetlands Program. To learn more about the Wetlands Program, visit: <http://www.in.gov/idem/4384.htm> (<http://www.in.gov/idem/4384.htm>).
3. If the USACE determines that a wetland or other water body is isolated and not subject to Clean Water Act regulation, it is still regulated by the state of Indiana. A State Isolated Wetland permit from IDEM's Office of Water Quality (OWQ) is required for any activity that results in the discharge of dredged or fill materials into isolated wetlands. To learn more about isolated wetlands, contact the OWQ Wetlands Program at 317-233-8488.
4. If your project will involve over a 0.5 acre of wetland impact, stream relocation, or other large-scale alterations to water bodies such as the creation of a dam or a water diversion, you should seek additional input from the OWQ Wetlands Program staff. Consult the Web at: <http://www.in.gov/idem/4384.htm> (<http://www.in.gov/idem/4384.htm>) for the appropriate staff contact to further discuss your project.
5. Work within the one-hundred year floodway of a given water body is regulated by the Department of Natural Resources, Division of Water. The Division issues permits for activities regulated under the following statutes:
  - IC 14-26-2 Lakes Preservation Act 312 IAC 11
  - IC 14-26-5 Lowering of Ten Acre Lakes Act No related code
  - IC 14-28-1 Flood Control Act 310 IAC 6-1
  - IC 14-29-1 Navigable Waterways Act 312 IAC 6
  - IC 14-29-3 Sand and Gravel Permits Act 312 IAC 6
  - IC 14-29-4 Construction of Channels Act No related code

For information on these Indiana (statutory) Code and Indiana Administrative Code citations, see the DNR Web site at: <http://www.in.gov/dnr/water/9451.htm> (<http://www.in.gov/dnr/water/9451.htm>). Contact the DNR Division of Water at 317-232-4160 for further information.

The physical disturbance of the stream and riparian vegetation, especially large trees overhanging any affected water bodies should be limited to only that which is absolutely necessary to complete the project. The shade provided by the large overhanging trees helps maintain proper stream temperatures and dissolved oxygen for aquatic life.

6. For projects involving construction activity (which includes clearing, grading, excavation and other land disturbing activities) that result in the disturbance of one (1), or more, acres of total land area, contact the Office of Water Quality – Watershed Planning Branch (317/233-1864) regarding the need for of a Rule 5 Storm Water Runoff Permit. Visit the following Web page
  - <http://www.in.gov/idem/4902.htm> (<http://www.in.gov/idem/4902.htm>)

To obtain, and operate under, a Rule 5 permit you will first need to develop a Construction Plan (<http://www.in.gov/idem/4917.htm#constreq>) (<http://www.in.gov/idem/4917.htm#constreq>), and as described in 327 IAC 15-5-6.5 (<http://www.in.gov/legislative/iac/T03270/A00150> [PDF] (<http://www.in.gov/legislative/iac/T03270/A00150.PDF>), pages 16 through 19). Before you may apply for a Rule 5 Permit, or begin construction, you must submit your Construction Plan to your county Soil and Water Conservation District (SWCD) (<http://www.in.gov/isda/soil/contacts/map.html>) (<http://www.in.gov/isda/soil/contacts/map.html>)).

Upon receipt of the construction plan, personnel of the SWCD or the Indiana Department of Environmental Management will review the plan to determine if it meets the requirements of 327 IAC 15-5. Plans that are deemed deficient will require re-submittal. If the plan is sufficient you will be notified and instructed to submit the verification to IDEM as part of the Rule 5 Notice of Intent (NOI) submittal. Once construction begins, staff of the SWCD or Indiana Department of Environmental Management will perform inspections of activities at the site for compliance with the regulation.

Please be mindful that approximately 149 Municipal Separate Storm Sewer System (MS4) areas are now being established by various local governmental entities throughout the state as part of the implementation of Phase II federal storm water requirements. All of these MS4 areas will eventually take responsibility for Construction Plan review, inspection, and enforcement. As these MS4 areas obtain program approval from IDEM, they will be added to a list of MS4 areas posted on the IDEM Website at: <http://www.in.gov/idem/4900.htm> (<http://www.in.gov/idem/4900.htm>).

If your project is located in an IDEM-approved MS4 area, please contact the local MS4 program about meeting their storm water requirements. Once the MS4 approves the plan, the NOI can be submitted to IDEM.

Regardless of the size of your project, or which agency you work with to meet storm water requirements, IDEM recommends that appropriate structures and techniques be utilized both during the construction phase, and after completion of the project, to minimize the impacts associated with storm water runoff. The use of appropriate planning and site development and appropriate storm water quality measures are recommended to prevent soil from leaving the construction site during active land disturbance and for post construction water quality concerns. Information and assistance regarding storm water related to construction activities are available from the Soil and Water Conservation District (SWCD) offices in each county or from IDEM.

7. For projects involving impacts to fish and botanical resources, contact the Department of Natural Resources - Division of Fish and Wildlife (317/232-4080) for addition project input.
8. For projects involving water main construction, water main extensions, and new public water supplies, contact the Office of Water Quality - Drinking Water Branch (317-308-3299) regarding the need for permits.
9. For projects involving effluent discharges to waters of the State of Indiana, contact the Office of Water Quality - Permits Branch (317-233-0468) regarding the need for a National Pollutant Discharge Elimination System (NPDES) permit.
10. For projects involving the construction of wastewater facilities and sewer lines, contact the Office of Water Quality - Permits Branch (317-232-8675) regarding the need for permits.

## AIR QUALITY

The above-noted project should be designed to minimize any impact on ambient air quality in, or near, the project area. The project must comply with all federal and state air pollution regulations. Consideration should be given to the following:

1. Regarding open burning, and disposing of organic debris generated by land clearing activities; some types of open burning are allowed (<http://www.in.gov/idem/4148.htm> (<http://www.in.gov/idem/4148.htm>)) under specific conditions. You also can seek an open burning variance from IDEM.

However, IDEM generally recommends that you take vegetative wastes to a registered yard waste composting facility or that the waste be chipped or shredded with composting on site (you must register with IDEM if more than 2,000 pounds is to be composted; contact 317/232-0066). The finished compost can then be used as a mulch or soil amendment. You also may bury any vegetative wastes (such as leaves, twigs, branches, limbs, tree trunks and stumps) onsite, although burying large quantities of such material can lead to subsidence problems, later on.

Reasonable precautions must be taken to minimize fugitive dust emissions from construction and demolition activities. For example, wetting the area with water, constructing wind barriers, or treating dusty areas with chemical stabilizers (such as calcium chloride or several other commercial products). Dirt tracked onto paved roads from unpaved areas should be minimized.

Additionally, if construction or demolition is conducted in a wooded area where blackbirds have roosted or abandoned buildings or building sections in which pigeons or bats have roosted for 3-5 years precautionary measures should be taken to avoid an outbreak of histoplasmosis. This disease is caused by the fungus *Histoplasma capsulatum*, which stems from bird or bat droppings that have accumulated in one area for 3-5 years. The spores from this fungus become airborne when the area is disturbed and can cause infections over an entire community downwind of the site. The area should be wetted down prior to cleanup or demolition of the project site. For more detailed information on histoplasmosis prevention and control, please contact the Acute Disease Control Division of the Indiana State Department of Health at (317) 233-7272.

2. The U.S. EPA and the Surgeon General recommend that people not have long-term exposure to radon at levels above 4 pCi/L. (For a county-by-county map of predicted radon levels in Indiana, visit: <http://www.in.gov/idem/4145.htm> (<http://www.in.gov/idem/4145.htm>).



The U.S. EPA further recommends that all homes (and apartments within three stories of ground level) be tested for radon. If in-home radon levels are determined to be 4 pCi/L, or higher, EPA recommends a follow-up test. If the second test confirms that radon levels are 4 pCi/L, or higher, EPA recommends the installation of radon-reduction measures. (For a list of qualified radon testers and radon mitigation (or reduction) specialists visit: [http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon\\_testers\\_mitigators\\_list.pdf](http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon_testers_mitigators_list.pdf) ([http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon\\_testers\\_mitigators\\_list.pdf](http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon_testers_mitigators_list.pdf)),) It also is recommended that radon reduction measures be built into all new homes, particularly in areas like Indiana that have moderate to high predicted radon levels.

To learn more about radon, radon risks, and ways to reduce exposure visit: <http://www.in.gov/isdh/regsvcs/radhealth/radon.htm> (<http://www.in.gov/isdh/regsvcs/radhealth/radon.htm>), <http://www.in.gov/idem/4145.htm> (<http://www.in.gov/idem/4145.htm>), or <http://www.epa.gov/radon/index.html> (<http://www.epa.gov/radon/index.html>).

3. With respect to asbestos removal: all facilities slated for renovation or demolition (except residential buildings that have (4) four or fewer dwelling units and which will not be used for commercial purposes) must be inspected by an Indiana-licensed asbestos inspector prior to the commencement of any renovation or demolition activities. If regulated asbestos-containing material (RACM) that may become airborne is found, any subsequent demolition, renovation, or asbestos removal activities must be performed in accordance with the proper notification and emission control requirements.

If no asbestos is found where a renovation activity will occur, or if the renovation involves removal of less than 260 linear feet of RACM off of pipes, less than 160 square feet of RACM off of other facility components, or less than 35 cubic feet of RACM off of all facility components, the owner or operator of the project does not need to notify IDEM before beginning the renovation activity.

For questions on asbestos demolition and renovation activities, you can also call IDEM's Lead/Asbestos section at 1-888-574-8150.

However, in all cases where a demolition activity will occur (even if no asbestos is found), the owner or operator must still notify IDEM 10 working days prior to the demolition, using the form found at <http://www.in.gov/icpr/webfile/formsdiv/44593.pdf> (<http://www.in.gov/icpr/webfile/formsdiv/44593.pdf>).

Anyone submitting a renovation/demolition notification form will be billed a notification fee based upon the amount of friable asbestos containing material to be removed or demolished. Projects that involve the removal of more than 2,600 linear feet of friable asbestos containing materials on pipes, or 1,600 square feet or 400 cubic feet of friable asbestos containing material on other facility components, will be billed a fee of \$150 per project; projects below these amounts will be billed a fee of \$50 per project. All notification remitters will be billed on a quarterly basis.

For more information about IDEM policy regarding asbestos removal and disposal, visit: <http://www.in.gov/idem/4983.htm> (<http://www.in.gov/idem/4983.htm>).

4. With respect to lead-based paint removal: IDEM encourages all efforts to minimize human exposure to lead-based paint chips and dust. IDEM is particularly concerned that young children exposed to lead can suffer from learning disabilities. Although lead-based paint abatement efforts are not mandatory, any abatement that is conducted within housing built before January 1, 1978, or a child-occupied facility is required to comply with all lead-based paint work practice standards, licensing and notification requirements. For more information about lead-based paint removal visit: <http://www.in.gov/isdh/19131.htm> (<http://www.in.gov/isdh/19131.htm>).
5. Ensure that asphalt paving plants are permitted and operate properly. The use of cutback asphalt, or asphalt emulsion containing more than seven percent (7%) oil distillate, is prohibited during the months April through October. See 326 IAC 8-5-2, Asphalt Paving Rule (<http://www.ai.org/legislative/iac/T03260/A00080.PDF> (<http://www.ai.org/legislative/iac/T03260/A00080.PDF>)).
6. If your project involves the construction of a new source of air emissions or the modification of an existing source of air emissions or air pollution control equipment, it will need to be reviewed by the IDEM Office of Air Quality (OAQ). A registration or permit may be required under 326 IAC 2 (View at: [www.ai.org/legislative/iac/t03260/a00020.pdf](http://www.ai.org/legislative/iac/t03260/a00020.pdf) (<http://www.ai.org/legislative/iac/t03260/a00020.pdf>)). New sources that use or emit hazardous air pollutants may be subject to Section 112 of the Clean Air Act and corresponding state air regulations governing hazardous air pollutants.
7. For more information on air permits visit: <http://www.in.gov/idem/4223.htm> (<http://www.in.gov/idem/4223.htm>), or to initiate the IDEM air permitting process, please contact the Office of Air Quality Permit Reviewer of the Day at (317) 233-0178 or OAMPROD@dem.state.in.us.

## LAND QUALITY

In order to maintain compliance with all applicable laws regarding contamination and/or proper waste disposal, IDEM recommends that:

1. If the site is found to contain any areas used to dispose of solid or hazardous waste, you need to contact the Office of Land Quality (OLQ) at 317-308-3103.
2. All solid wastes generated by the project, or removed from the project site, need to be taken to a properly permitted solid waste processing or disposal facility. For more information, visit <http://www.in.gov/idem/4998.htm> (<http://www.in.gov/idem/4998.htm>).
3. If any contaminated soils are discovered during this project, they may be subject to disposal as hazardous waste. Please contact the OLQ at 317-308-3103 to obtain information on proper disposal procedures.
4. If PCBs are found at this site, please contact the Industrial Waste Section of OLQ at 317-308-3103 for information regarding management of any PCB wastes from this site.
5. If there are any asbestos disposal issues related to this site, please contact the Industrial Waste Section of OLQ at 317-308-3103 for information regarding the management of asbestos wastes (Asbestos removal is addressed above, under Air Quality).
6. If the project involves the installation or removal of an underground storage tank, or involves contamination from an underground storage tank, you must contact the IDEM Underground Storage Tank program at 317/308-3039. See: <http://www.in.gov/idem/4999.htm> (<http://www.in.gov/idem/4999.htm>).

## FINAL REMARKS

Should you need to obtain any environmental permits in association with this proposed project, please be mindful that IC 13-15-8 requires that you notify all adjoining property owners and/or occupants within ten days your submittal of each permit application. However, if you are seeking multiple permits, you can still meet the notification requirement with a single notice if all required permit applications are submitted with the same ten day period.

Should the scope of the proposed project be expanded to the extent that a National Environmental Policy Act Environmental Assessment (EA) or Environmental Impact Statement (EIS) is required, IDEM will actively participate in any early interagency coordination review of the project.

Meanwhile, please note that this letter does not constitute a permit, license, endorsement or any other form of approval on the part of the Indiana Department of Environmental Management regarding any project for which a copy of this letter is used. Also note that it is the responsibility of the project engineer or consultant using this letter to ensure that the most current draft of this document, which is located at <http://www.in.gov/idem/5284.htm> (<http://www.in.gov/idem/5284.htm>), is used.

---

## Signature(s) of the Applicant

I acknowledge that the following proposed roadway project will be financed in part, or in whole, by public monies.

## Project Description

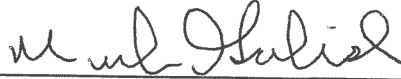
The project is located on Kennedy Ave. and extends from the south approach of 164th Place north approximately 4,800 feet to the south access road to Michigan St. (US 20), excluding the County Bridge (National Bridge Inventory [NBI]: 4500185) over several railroad tracks that is approximately 465 feet in length from bridge approach to bridge approach. This project can be further describe as being in Section 4, Township 36 North, and Range 9 West of the Highland U.S. Geological Survey (USGS) Quadrangle. The proposed pavement treatment would consist of milling the existing pavement down 4 to 8 inches and resurfacing/recycling 4 to 8 inches with some areas needing patching or full depth reconstruction with Hot Mixed Asphalt (HMA) from the south approach of 164th Place north to 161st Street on Kennedy Ave. The pavement on 161st Street would be reconstructed to the south end of the County Bridge and from the north end of the County Bridge to the south access road for US 20/Michigan Street. This project also proposes to reconfigure the traffic signals at the Cleveland St. and Kennedy Ave. intersection to accommodate the new lane configuration. This is the only intersection within the project area that is signalized. Curb ramps at roadway intersections that do not currently meet Americans with Disabilities Act (ADA) standards would be replaced or modified to meet current ADA standards. In addition, sidewalk and driveway approaches would be repaired or replaced as necessary. Minimal work is anticipated for the sewer system due to the proposed scope of work. Reconstructing around manholes or drainage inlets that are disturbed during the road work may occur and structure castings may need replaced, adjusted, or added to accommodate any minor changes in the grade or planned bioretention system treatments. The type of bioretention systems being considered consist of bioretention curbs, infiltration trenches, bio-swales, rain gardens, and natural vegetation. These may be used separately or in conjunction with each other at various locations available within the existing ROW. Additionally, pavement markings and signs would be reconfigured and placed from approximately 300 feet north of the south access road for US 20/Michigan Street to the end of the project to tie in the lane reductions. No additional permanent or temporary ROW is anticipated to be acquired as part of this project. Some tree clearing/trimming may be needed but exact locations and amounts are not known at this time. Construction is anticipated to begin in Late Fall of 2023 or early Spring of 2024.



With my signature, I do hereby affirm that I have read the letter from the Indiana Department of Environment that appears directly above. In addition, I understand that in order to complete that project in which I am interested, with a minimum of impact to the environment, I must consider all the issues addressed in the aforementioned letter, and further, that I must obtain any required permits.

Date: 2-15-2022

Signature of the INDOT  
Project Engineer or Other Responsible Agent



Mark Gordish

Date: 10-18-2021

Signature of the  
For Hire Consultant



Harlan Ford

## Organization and Project Information

**Project ID:** 1901902  
**Des. ID:** 1901902  
**Project Title:** Kennedy Avenue Roadway Project  
**Name of Organization:** RQAW  
**Requested by:** Harlan Ford

## Environmental Assessment Report

1. Geological Hazards:
  - High liquefaction potential
  - Floodway
2. Mineral Resources:
  - Bedrock Resource: High Potential
  - Sand and Gravel Resource: Low Potential
3. Active or abandoned mineral resources extraction sites:
  - None documented in the area

\*All map layers from Indiana Map ([maps.indiana.edu](http://maps.indiana.edu))

### **DISCLAIMER:**

This document was compiled by Indiana University, Indiana Geological Survey, using data believed to be accurate; however, a degree of error is inherent in all data. This product is distributed "AS-IS" without warranties of any kind, either expressed or implied, including but not limited to warranties of suitability to a particular purpose or use. No attempt has been made in either the design or production of these data and document to define the limits or jurisdiction of any federal, state, or local government. The data used to assemble this document are intended for use only at the published scale of the source data or smaller (see the metadata links below) and are for reference purposes only. They are not to be construed as a legal document or survey instrument. A detailed on-the-ground survey and historical analysis of a single site may differ from these data and this document.

This information was furnished by Indiana Geological Survey

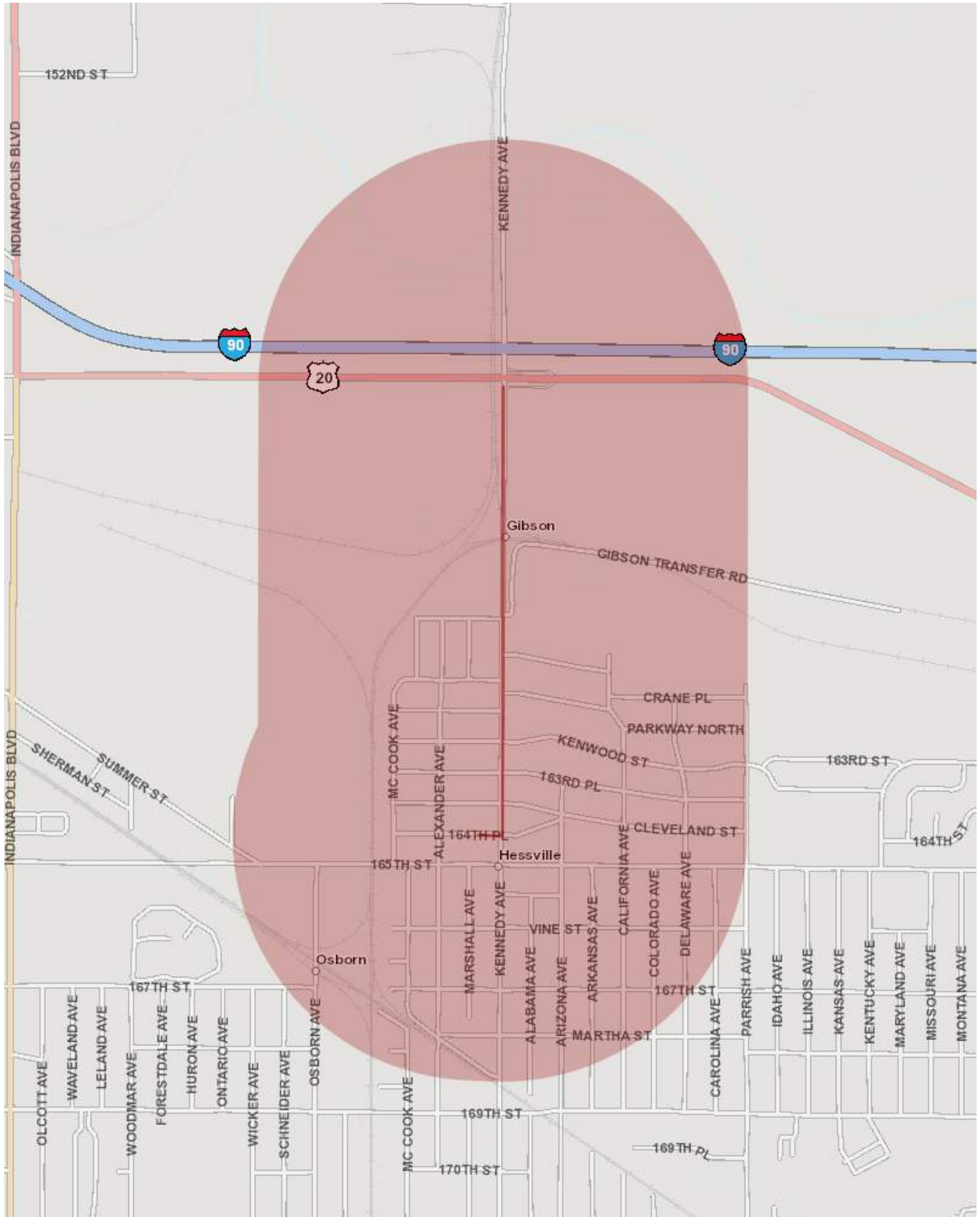
Address: 1001 E. 10th St., Bloomington, IN 47405

Email: IGSEnvir@indiana.edu

Phone: 812 855-7428

Date: October 18, 2021





# Metadata:

- [https://maps.indiana.edu/metadata/Geology/Seismic\\_Earthquake\\_Liquefaction\\_Potential.html](https://maps.indiana.edu/metadata/Geology/Seismic_Earthquake_Liquefaction_Potential.html)
- [https://maps.indiana.edu/metadata/Geology/Industrial\\_Minerals\\_Sand\\_Gravel\\_Resources.html](https://maps.indiana.edu/metadata/Geology/Industrial_Minerals_Sand_Gravel_Resources.html)
- [https://maps.indiana.edu/metadata/Hydrology/Floodplains\\_FIRM.html](https://maps.indiana.edu/metadata/Hydrology/Floodplains_FIRM.html)
- [https://maps.indiana.edu/metadata/Geology/Bedrock\\_Geology.html](https://maps.indiana.edu/metadata/Geology/Bedrock_Geology.html)



**From:** Turnbow, Alisha <ATurnbow@idem.IN.gov>  
**Sent:** Wednesday, October 20, 2021 7:25 PM  
**To:** Harlan Ford  
**Subject:** [EXT] RE: Early Coordination Letter for Des No. 1901902

**\*\*\*\* Please use caution this is an externally originating email. \*\*\*\***  
**Do not click on links or open attachments unless you recognize the sender and know the contents is safe.**

Hi Harlan,

The project Des No 1901902 is located in Source Water Assessment Areas for three Public Water Supply Systems: Indiana American Water – Northwest, East Chicago Water Works, and Hammond Water Works.

- The contact for Indiana American Water – Northwest is Christina Gosnell and she can be reached at [christina.gosnell@amwater.com](mailto:christina.gosnell@amwater.com) and 317-885-2408.
- The contact for East Chicago Water Works is Winna Guzman and they can be reached at [wguzman@eastchicago.com](mailto:wguzman@eastchicago.com) and 219-391-8469.
- The contact for Hammond Water Works Department is Edward Krusa and they can be reached at [krusae@gohammond.com](mailto:krusae@gohammond.com) and 219-853-6427.

Let me know what questions you have.

Sincerely,



Alisha Turnbow  
Environmental Manager  
Office of Water Quality  
Drinking Water Branch, Groundwater Section  
(317) 233-9158 • [aturnbow@idem.IN.gov](mailto:aturnbow@idem.IN.gov)

Indiana Department of Environmental Management



**IDEM values your feedback.**

Please take two minutes and complete this brief survey.



#### COVID-19 Resources:

- **Indiana State Dept. of Health (ISDH) COVID-19 Call Center:** Call 877-826-0011 (available 8:00 am-5:00 pm daily).
- **Anthem NurseLine:** Call 800-337-4770 or visit the [Anthem NurseLine](#) online for a FREE symptom screening. Available to anyone with an Anthem health plan (this includes State of IN employees)
- **Anthem Employee Assistance Program (EAP):** Available to full-time state employees and their household members regardless of health plan participation. Call 800-223-7723 or visit [anthemep.com](http://anthemep.com) (enter State of Indiana) for crisis counseling, help finding child/elder care, legal/financial consultation and much more.

---

**From:** Harlan Ford <[hford@rqaw.com](mailto:hford@rqaw.com)>  
**Sent:** Monday, October 18, 2021 9:40 AM  
**To:** Turnbow, Alisha <[ATurnbow@idem.IN.gov](mailto:ATurnbow@idem.IN.gov)>  
**Subject:** Early Coordination Letter for Des No. 1901902



## Office of the Lake County Surveyor

Lake County Government Center • 2293 North Main Street • Crown Point, Indiana 46307  
Phone: (219) 755-3745 • Fax: (219) 755-3750

*Bill Emerson, Jr., P.E.*  
County Surveyor

October 29, 2021

Harlan Ford, Environmental Scientist, RQAW Corp.  
8770 North Street, Suite 110,  
Fishers, Indiana 46038

RE: Kennedy Avenue Roadway Improvement  
Kennedy Avenue, from 164<sup>th</sup> Place to US 20-Michigan Street  
City of Hammond, Indiana  
Des. No.: 1901902

Dear Mr. Ford,

The Lake County Surveyor's Office has received and reviewed the letter sent to our office on the above referenced project.

It is the understanding of the Lake County Surveyor's Office that the city of Hammond has plans for reconstruction of a portion of Kennedy Avenue. Due to the project being within the municipality of Hammond, they have full authority to request what is needed within their ordinances. There do not appear to be any Section Corners within your project, but if you do happen to encounter anything else (undocumented perpetuated section corners) please adheres to the following.

Be advised that any monumentation that is directly or indirectly impacted with the proposed project, must be replaced/ restored to its original condition or better by you or your contractor, and is subject to conditions set forth by the Lake County Surveyor's Office or its agents. Indiana Code 36-2-12-1 et. seq. and other applicable statutes and/or ordinances.

Any Section Corner disturbed or removed must be re-established by an Indiana Registered Land Surveyor and/or Professional Engineer. All witness references must be tied to the newly established Section Corner, and ALL documentation immediately forwarded to the Lake County Surveyor's Office for its records.



Any Benchmark in danger of disturbance must be replaced with a Brass Monument and must have an elevation established by an Indiana Registered Land Surveyor and/or Professional Engineer. The elevation must be tied to an existing USC&GS benchmark, and ALL documentation immediately forwarded to the Lake County Surveyor's Office for its records.

PROCEDURE: All visible stamped or tagged survey monuments found in rights-of-way that may be destroyed by construction or maintenance activities must be perpetuated under the supervision of a licensed Indiana Professional Land Surveyor. This will be achieved for each found monument by the following:

- A. Prior to the development of all construction or major maintenance contracts;
  - (1) The Design Engineer shall request the Lake County Surveyor to verify the presence of any Survey Corners within the construction zone.
  - (2) The Lake County Surveyor will conduct an in-house record search to determine if there are any Survey Corners within the right-of-way. If so, they will be verified in the field.
  - (3) All found Survey Corners will be listed in the contract by the Design Engineer for perpetuation;
    - (a) They must be perpetuated according to Indiana Code 36-2-12-1 Et. Seq. by an Indiana Licensed Professional Land Surveyor then tied to three (3) reference monuments. A copy of the recorded Corner Record for each monument with a written report identifying the character, location, description and ties of the new monument and Reference Monuments shall be sent by the land surveyor to the Lake County Surveyor's Office 2293 North Main Street, Crown Point, Indiana 46307.
  - (4) At the discretion of the Lake County Surveyor, any Survey Corner found in the roadway will be tied to three (3) Reference Monuments set by a licensed Indiana Professional Land Surveyor. A Corner Record will be sent to the Lake County Surveyor to be recorded.

(5) The Lake County Surveyor will maintain a record of all perpetuated Survey Corners.

B. Prior to staking a construction project;

(1) The Engineer, under the direction of the Lake County Surveyor, will follow the provisions in Indiana Code 36-2-12-1 Et. Seq. and field verify the presence of all visible monuments.

(2) Any Survey Corners found and which are not listed in the contract plans for perpetuation will be added to the contract for perpetuation as defined the Procedure (3)(a).

(3) The Engineer will tie all visible stamped or tagged Survey Corners or Benchmarks that may be disturbed. The ties will be to three (3) existing visible Reference Monuments or three (3) set visible Reference Monuments, which will not be disturbed during construction activities. Instruction on procedures used to tie a Survey Corner or Benchmark or to construct a Reference Monument will be available from the Lake County Surveyor.

(4) Found monuments will be noted in the as-built construction plans and written report identifying the character, location, description and ties of the monument and Reference Monuments will be sent to the Lake County Surveyor 2293 North Main Street, Crown Point, Indiana 46307.

(5) After review and acceptance of the written report, monuments used to reference a Survey Corner or Benchmark shall be approved to be stamped by an Indiana Licensed Professional Land Surveyor with the registration number by memo from the Surveyor to the Lake County Surveyor.

(6) INDOT will maintain a record of all tied Survey Corners or Benchmarks and a Record will be sent by INDOT to the Lake County Surveyor for its record.

C. Prior to maintenance activities that will cover or destroy monuments;



(1) INDOT, under the direction of the Lake County Surveyor, will follow the provision in Indiana Code 36-2-12-1 Et. Seq., and field verify the presence of any monuments.

(2) Any Survey Corners found will be reported to the Lake County Surveyor with a request that the monument be perpetuated prior to maintenance activities.

(3) INDOT will tie all visible stamped or tagged Survey Corners or Benchmarks that may be disturbed. Instruction on procedures used to tie Survey Corner or Benchmark or to construct a Reference Monument will be available from the Lake County Surveyor.

(4) Found and tied monuments will be noted in the latest as-built construction plans and a written report identifying the character, location, description and ties of the monument and reference monuments will be sent to the Lake County Surveyor, 2293 North Main Street, Crown Point, Indiana 46307.

(5) After review and acceptance of the written report, monuments used to reference Survey Corners or Benchmarks shall be approved to be stamped with the registration number of the licensed Indiana Professional Land Surveyor by memo from the Lake County Surveyor.

(6) The Lake County Surveyor will maintain a record of all tied Survey Corners or Benchmarks in the Office of the Lake County Surveyor.

Sincerely,



Juan J. Lopez  
Surveying Administrator

cc: Bill Emerson, Jr, PE, Lake County Surveyor  
Daniel V. Gossman, Drainage Administrator

**From:** Courtade, Julian <JCourtade@indot.IN.gov>  
**Sent:** Tuesday, October 19, 2021 1:53 PM  
**To:** Harlan Ford  
**Subject:** [EXT] RE: Early Coordination Letter for Des No. 1901902

**\*\*\*\* Please use caution this is an externally originating email. \*\*\*\***  
**Do not click on links or open attachments unless you recognize the sender and know the contents is safe.**

Harlan –

After reviewing the Early Coordination Letter, I have determined that if any object, obstruction, or equipment will exceed 115 ft. in height, further coordination will be required with our office and the FAA. This is due to the close proximity of Gary International Airport and the need for any obstructions within 5 miles to meet a 100:1 glideslope to the nearest runway according to 14 CFR Part 77 standards. You can find these standards and information on filing at the website below:

<https://oeaaa.faa.gov/oeaaa/external/portal.jsp>

Please let me know if you have any questions!

Best,

**Julian L. Courtade**

**Chief Airport Inspector**

100 North Senate Ave, N758-MM

Indianapolis, IN 46204

**Cell:** (317) 954-7385

**Email:** [jcourtade@indot.in.gov](mailto:jcourtade@indot.in.gov)





**From:** Michels, Stewart <SMichels@indot.IN.gov>  
**Sent:** Wednesday, November 3, 2021 10:07 AM  
**To:** Harlan Ford  
**Subject:** [EXT] RE: Early Coordination Letter for Des No. 1901902

**\*\*\*\* Please use caution this is an externally originating email. \*\*\*\***  
**Do not click on links or open attachments unless you recognize the sender and know the contents is safe.**

Harlan,

Thank you for providing a copy of the early coordination letter for Des 1901902 to the LaPorte District Environmental Services. We do not have any comment at this time. Thank you, again, for contacting us.

Regards,  
Stew

---

**From:** Harlan Ford <[hford@rqaw.com](mailto:hford@rqaw.com)>  
**Sent:** Monday, October 18, 2021 8:40 AM  
**To:** Michels, Stewart <[SMichels@indot.IN.gov](mailto:SMichels@indot.IN.gov)>  
**Subject:** Early Coordination Letter for Des No. 1901902

**\*\*\*\* This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*\***

Hello,

The Federal Highway Administration (FHWA) and the City of Hammond propose to proceed with a roadway project located on Kennedy Avenue in Lake County, Indiana. Attached, you will find an early coordination letter and appendix materials regarding the above referenced project. If you choose, these materials are for your review and comment for the environmental document.

Thank you for your time,



**Harlan Ford**  
Environmental Scientist  
8770 North St., Ste. 110  
Fishers, IN 46038  
O: 423-458-5979  
[www.rqaw.com](http://www.rqaw.com)



*Best Places to Work in Indiana*  
2018-2021