



404

September 12, 2018

Delaware County Council
100 W Main St
Muncie, Indiana 47304

Re: Des. No.: 1298228
Intersection Improvement Project
State Road (SR) 332 and County Road (CR) 600 W, 3.36 miles east of Interstate 69 (I-69)
Yorktown, Delaware County, Indiana

Dear Sir or Madam:

The Federal Highway Administration (FHWA) and the Indiana Department of Transportation (INDOT)-Greenfield District, propose to proceed with an intersection improvement project at SR 332 and CR 600 W, 3.36 miles east of I-69 (Des. No. 1298228).

This letter is part of the early coordination phase of the environmental review process requesting comments associated with these projects. Please use the above Des. No. and project description in your reply, and your comments will be incorporated into the formal environmental study. Your cooperation in this endeavor is appreciated.

Project Location and Existing Conditions

The proposed project is located along SR 332 and CR 600 W in Yorktown, Delaware County, Indiana, approximately 3.36 miles east of I-69. Specifically, the project is located in Sections 33 and 34, Township 21 North, Range 9 East of Harrison Township and Sections 3 and 4, Township 20 North, Range 9 East of Mount Pleasant Township as depicted on the Gilman and Muncie West U.S. Geological Survey (USGS) 1:24,000 scale Quadrangles.

SR 332 is classified as a rural major collector within the project area and consists of four, 12-foot asphalt travel lanes (2 eastbound, 2 westbound) with a 5-foot paved shoulder on both the inside and outside lanes. Additionally, there is one right turn lane and one left turn lane that are both 12 feet wide; both turn lanes begin approximately 500 feet from the intersection with CR 600 W. The eastbound and westbound travel lanes are separated by a 40-foot grass median. CR 600 W is classified as a rural major collector north of SR 332 and an urban minor arterial south of SR 332. CR 600 W consists of two, 10-foot to 11-foot asphalt travel lanes (1 northbound, 1 southbound). Adjacent land use consists of agricultural and residential areas. Please see the attached maps and photographs of the proposed project area.

Purpose and Need

The need for the project stems from significant traffic delays during peak travel times along CR 600 W and the high frequency of personal injury crashes. Since traffic along CR 600 W has to stop and traffic along SR 332 is free flowing, congestion occurs along CR 600 W. The purpose of the

project is to reduce traffic delays and reduce personal injury crash frequency along SR 332 and CR 600 W.

Proposed Project

The proposed project will construct a restricted crossing U-turn, or J-turn, at the intersection of SR 332 and CR 600 W. Travel along CR 600 W at SR 332 will be restricted by a new center curb. Motorists will be required to turn right onto SR 332 and perform a U-turn approximately 750 feet from the intersection to access CR 600 W. The pavement at each turn-around will be widened by 36.6 feet along westbound SR 332 and by 36.8 feet along eastbound SR 332. Traffic along SR 332 will be unimpeded and the new curbs will allow left turns onto CR 600 W in both directions. Also, two pipe culverts beneath SR 332 will be extended. One culvert is a 30-inch inner diameter pipe which will be extended by 11 linear feet. The other culvert is a 24-inch inner diameter pipe which will be extended by 12 linear feet. Additionally, 3 driveways along CR 600 W within the project area will be replaced as a part of this project. The total length of the project is 1697 feet along SR 332 and 600 feet along CR 600 W.

The maintenance of traffic (MOT) plan will include multiple phases to limit the impact to emergency vehicles. The MOT involves lane closures along SR 332 and closing CR 600 W at the intersection. A detour for CR 600 W, utilizing CR 200 N, CR 700 W, and CR 300 N, will be established for motorists. Access will be maintained for property owners during construction of the project. The MOT will be implemented per the *Indiana Design Manual* guidelines.

Construction is anticipated to begin in Fiscal Year (FY) 2020. The estimated construction cost associated with this project is \$1,334,167.00.

Right-of-Way (ROW)

This project will require the acquisition of approximately 0.636 acre of permanent right-of-way to widen SR 332 at the location of the two turnarounds.

Environmental Resources

A Red Flag Investigation (RFI) was performed for a 0.5-mile radius for the project area. No "Red Flags" were identified within the project area but due to the proximity of water resources in the project area, a full wetland and stream delineation will be conducted and a *Waters of the U.S. Determination Report* will be completed as a part of the project. This project is outside of the Karst Memorandum of Understanding Potential Karst Features Region.

Lochmueller Group conducted a field investigation of the project area on October 27, 2017. The field investigation identified several wetlands within the project area and a *Waters of the U.S. Determination Report* will be prepared for this project.

Section 106

The National Register of Historic Places (National Register) and the Indiana Register of Historic Sites and Structures (State Register) were reviewed using the State Historic Architectural and Archaeological Research Database (SHAARD) and SHAARD Geographic Information System (GIS)

data published online. No above-ground historical resources on either list are within the project area. The 1985 *Delaware County Interim Report: Indiana Historic Sites and Structures Inventory* (IHSSI) data was also examined; no surveyed resources from this inventory were located within the project area. No resources listed in the Interim Report are near the project area. The *Indiana Historic Bridge Inventory Volume 2: Listing of Historic and Non-Historic Bridges* by Mead & Hunt (2009) was reviewed. No bridges eligible for listing in the National Register are within the project area.

Range-wide Informal Programmatic Consultation

Land use in the vicinity of the project is primarily rural with agricultural and residential areas surrounding the project area. Delaware County is within the range of the federally endangered Indiana bat (*Myotis sodalis*) and the federally threatened northern long-eared bat (*Myotis septentrionalis*). The project appears to fall under the Range-wide Programmatic Informal Consultation process. Completion of the appropriate determination key through the U.S. Fish and Wildlife Service's (USFWS) Information for Planning and Consultation (IPaC) portal will occur. If a likely determination of "Not Likely to Adversely Affect," or "Likely to Adversely Affect" is reached then additional consultation with the USFWS will occur through INDOT.

Early Coordination

This letter is part of the early coordination review process. You are asked to review this information and provide any comments you may have relative to anticipated impacts of the project on areas in which you have jurisdiction or special expertise. We will incorporate your comments into a study of the project's environmental impacts. To facilitate the development of this project, you are asked to reply within **30 days** of receipt of this letter. If no response is received by that date, it will be assumed you have no comments at the present time.

If you have any questions regarding this project, please feel free to contact me at (317) 222-3880 or at ckunkel@lochgroup.com. Additionally, should you want to contact the sponsor of this project, INDOT-Greenfield District please contact the Project Manager, Mr. Mark Blake, at (317) 467-3982 or at mblake@indot.in.gov.

Thank you in advance for your input.

Sincerely,



Chris Kunkel
Environmental Biologist
Lochmueller Group, Inc.

Attachments:

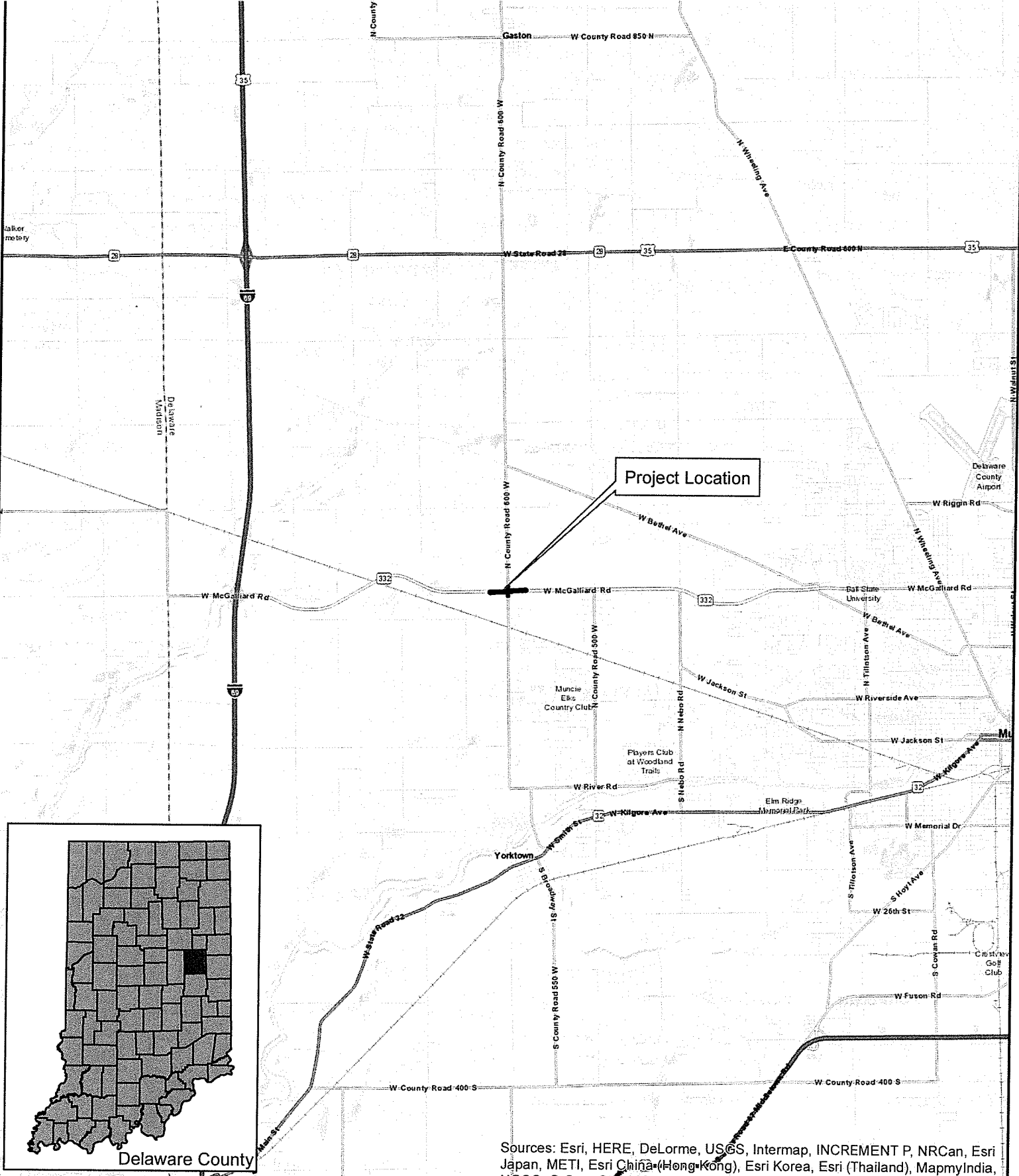
- Red Flag Investigation Maps
- Photographs
- Preliminary Design Plans

Distribution List:

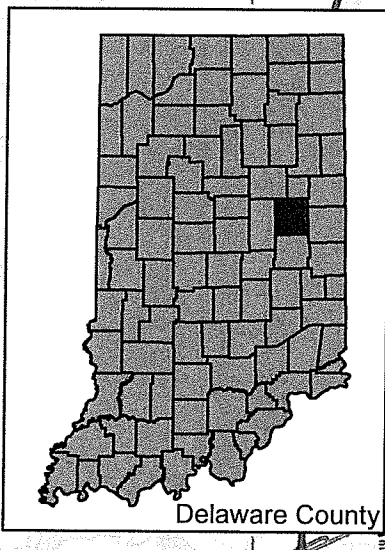
- USFWS, Bloomington Field Office (electronic submission)
- Natural Resources Conservation Service, Indianapolis Office
- U.S. Army Corps of Engineers, Louisville District
- U.S. Housing and Urban Development
- National Park Service
- FHWA – Indiana Division (electronic submission)
- Indiana Department of Natural Resources (IDNR), Division of Fish and Wildlife (electronic submission)
- Indiana Department of Environmental Management (IDEM) (electronic submission)
- INDOT, Office of Public Involvement (electronic submission)
- INDOT, Office of Aviation (electronic submission)
- INDOT, Environmental Services (electronic submission)
- INDOT, Greenfield District (electronic submission)
- Indiana Geological Survey (electronic submission)
- Delaware County Board of Commissioners
- Delaware County Council
- Delaware County Highway Department
- Delaware County Surveyor's Office
- Delaware County Emergency Management Agency
- Delaware County Sheriff's Department
- Delaware County, Mount Pleasant Township Trustee
- Delaware County, Harrison Township Trustee
- Wes-Del Community Schools
- Yorktown Community Schools
- Yorktown Fire Department
- Bureau of Water Quality MSD
- Delaware-Muncie Metropolitan Planning Commission

Early Coordination

Attachment A
Red Flag Investigation Maps



Project Location



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



3502 Woodview Trace, Suite 150
 Indianapolis, IN 46268
 Phone: (317) 222-3880
 Fax: (317) 222-3881

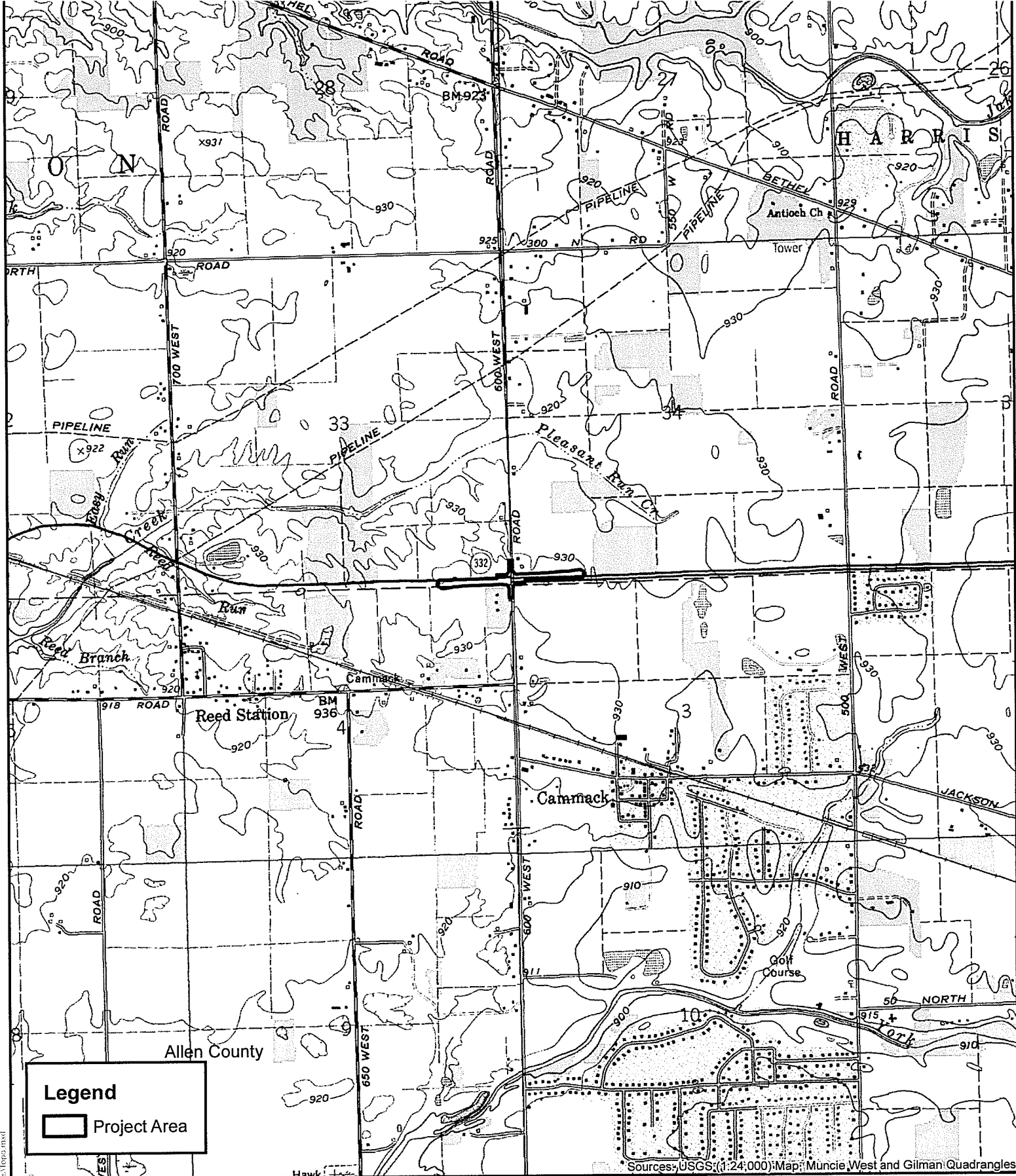
General Location Map

Des. # 1298228



County: Delaware
 Township: Mt. Pleasant & Harrison
 State: Indiana

SR 332 Intersection Improvement Project
 SR 332, 3.36 miles east of I-69
 Created: 5/23/2018, CKunkel



Legend

Project Area

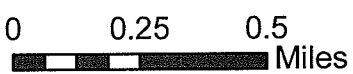
Sources: USGS (1:24,000) Map: Muncie West and Gilman Quadrangles



3502 Woodview Trace, Suite 150
 Indianapolis, IN 46268
 Phone: (317) 222-3880
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USGS Topographic Map

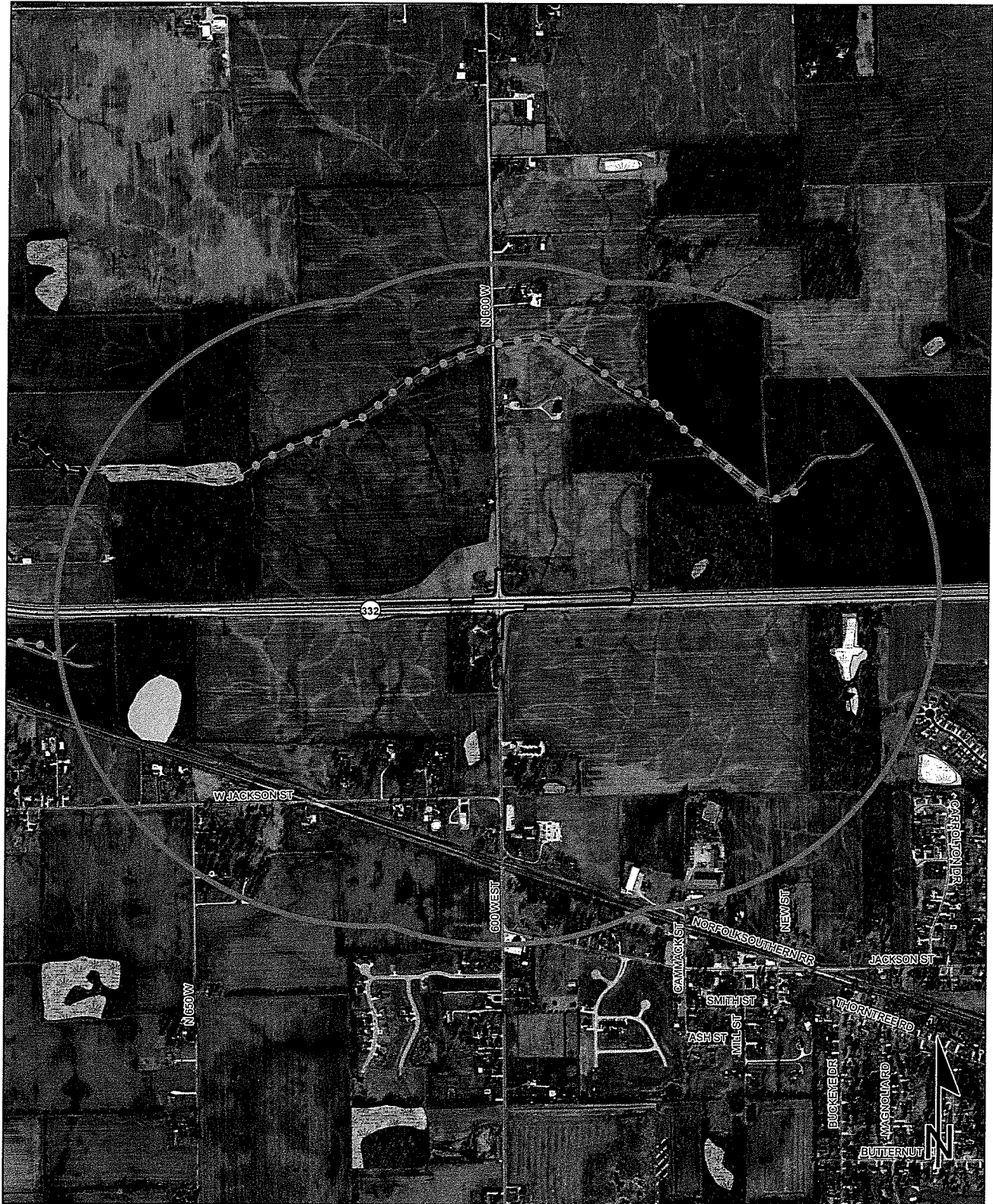
Des. # 1298228



County: Delaware
 Township: Mt. Pleasant & Harrison
 State: Indiana

SR 332 Intersection Improvement Project
 SR 332, 3.36 miles east of I-69
 Created: 5/7/2018, CKunkel

SR 332 at CR 600 W, 3.36 miles east of I-69
 Des. No. 1298228, Intersection Improvement
 Delaware County, Indiana



Sources:
 Non Orthophotography
 Data - Obtained from the State of Indiana Geographical Information Office Library
 Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
 Map Projection: UTM Zone 16 N Map Datum: NAD83

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

SR 332 at CR 600 W, 3.36 miles east of I-69
 Des. No. 1298228, Intersection Improvement
 Delaware County, Indiana



Sources: 0.2 0.1 0 0.2 Miles
Non Orthophotography
 Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
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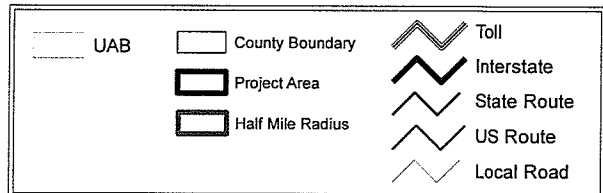
	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
			County Boundary		US Route
					Local Road

SR 332 at CR 600 W, 3.36 miles east of I-69
 Des. No. 1298228, Intersection Improvement
 County, Indiana



Sources: 0.2 0.1 0 0.2 Miles
Non Orthophotography
 Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
 Map Projection: UTM Zone 16 N Map Datum: NAD83

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.



Early Coordination

Attachment B

Photographs

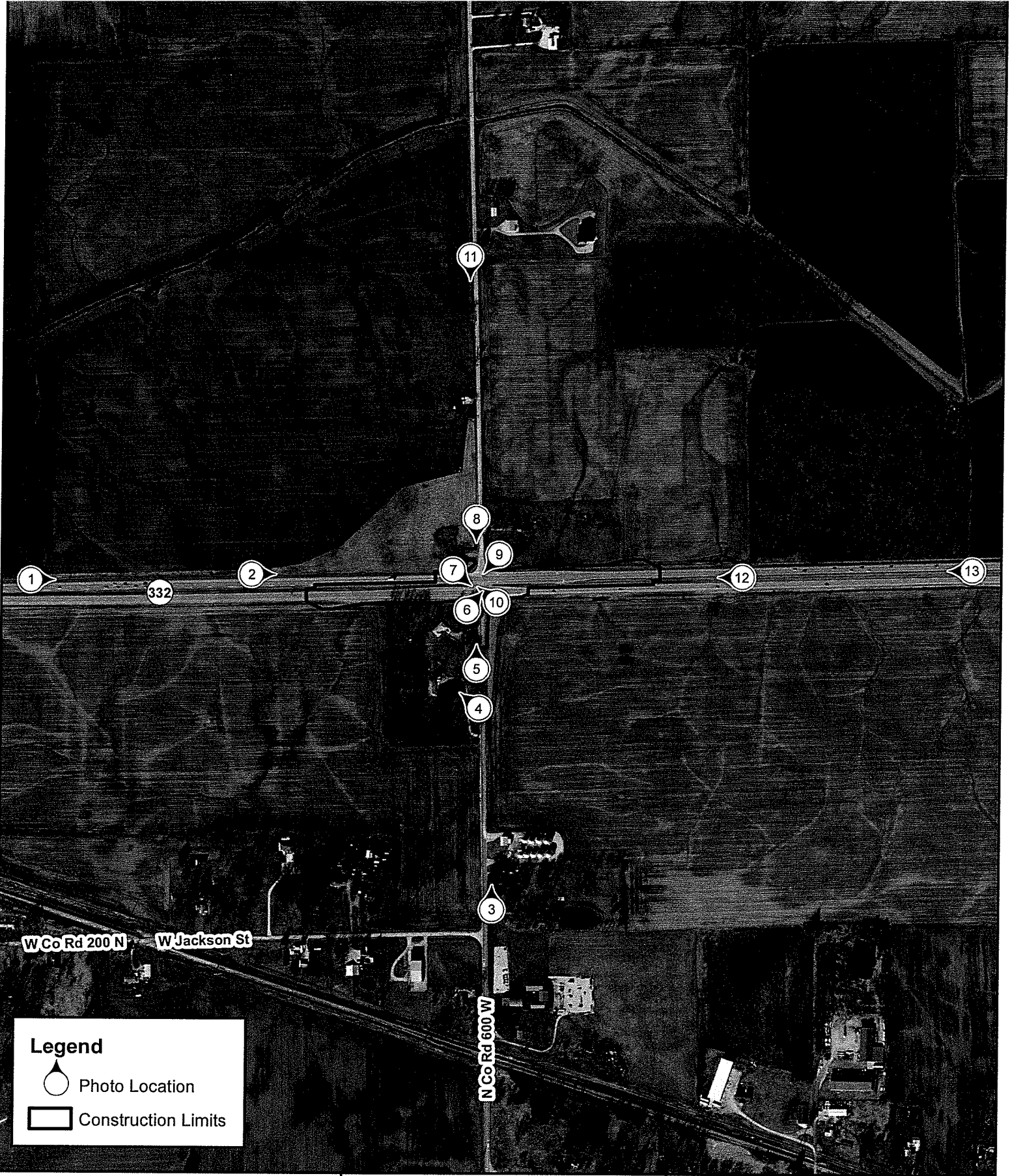
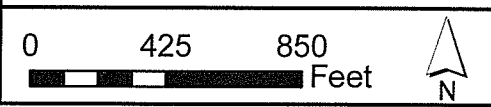


Photo Location Map
Des. No. 1298228

County: Delaware
Township: Mt. Pleasant & Harrison
State: Indiana



SR 332 Intersection Improvement Project
SR 332, 3.36 miles east of I-69
Created: 8/6/2018, CKunkel

LOCHMUELLER GROUP

3502 Woodview Trace, Suite 150
Indianapolis, IN 46268
Phone: (317) 222-3880
Fax: (317) 222-3881

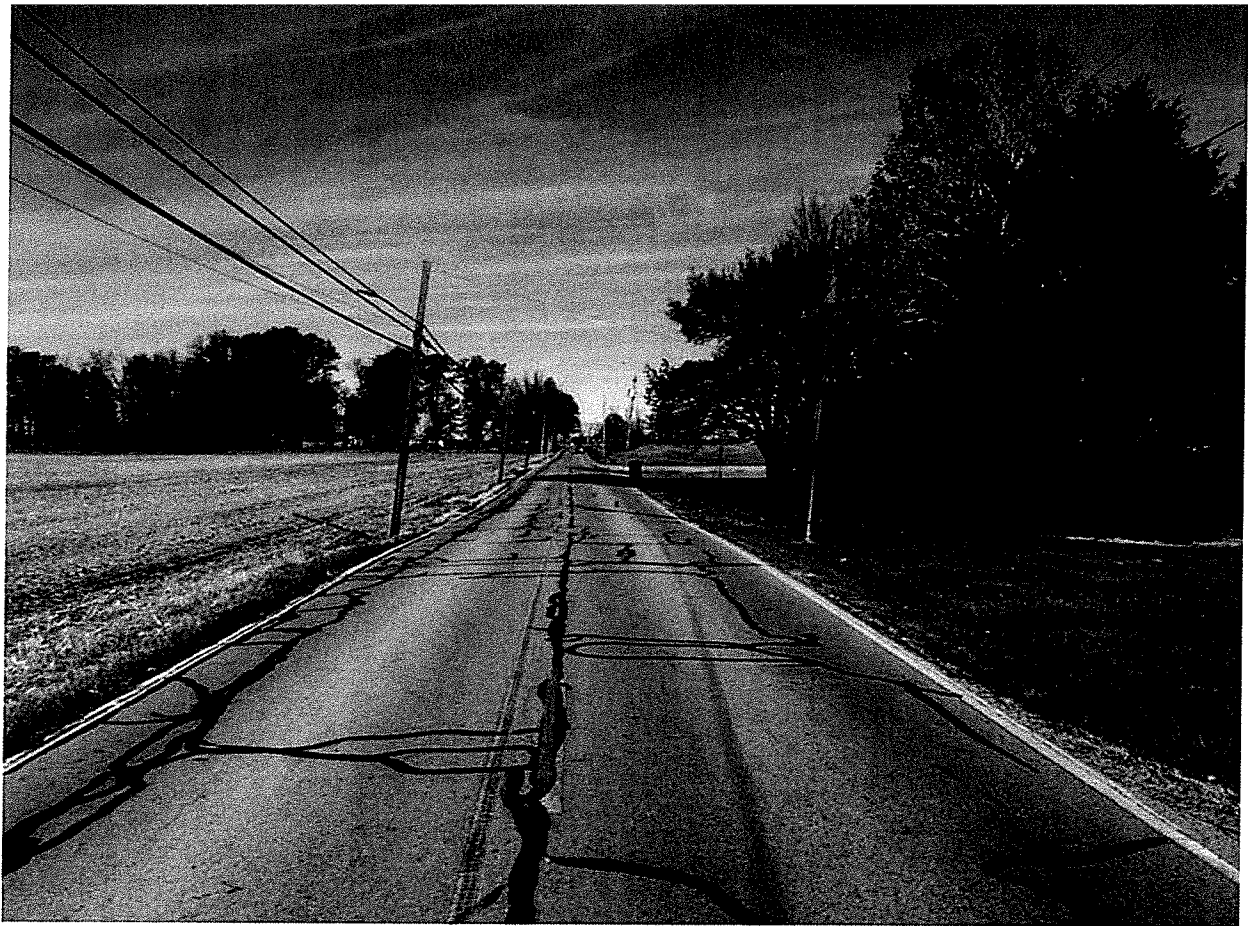
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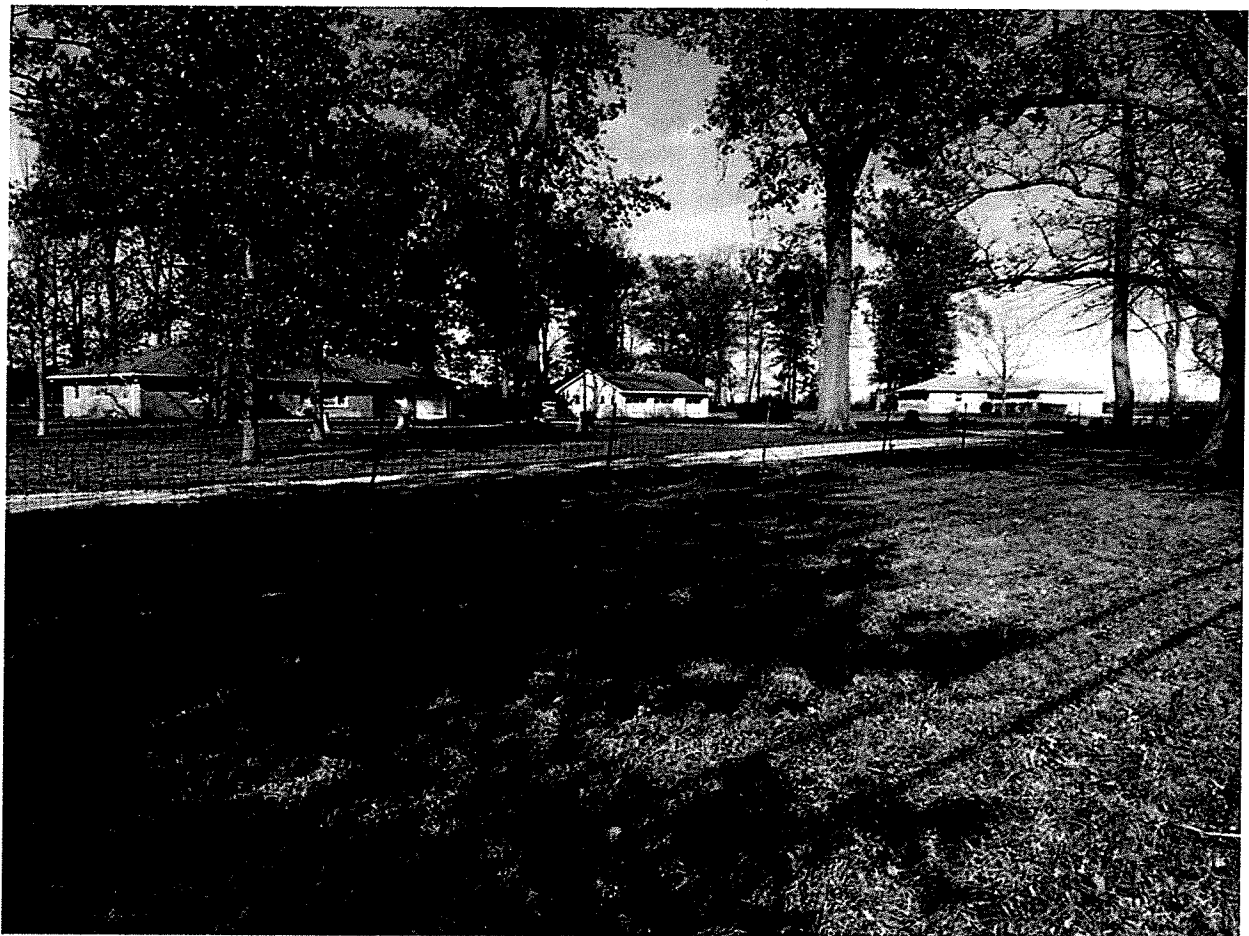
1. Looking east along State Road 332



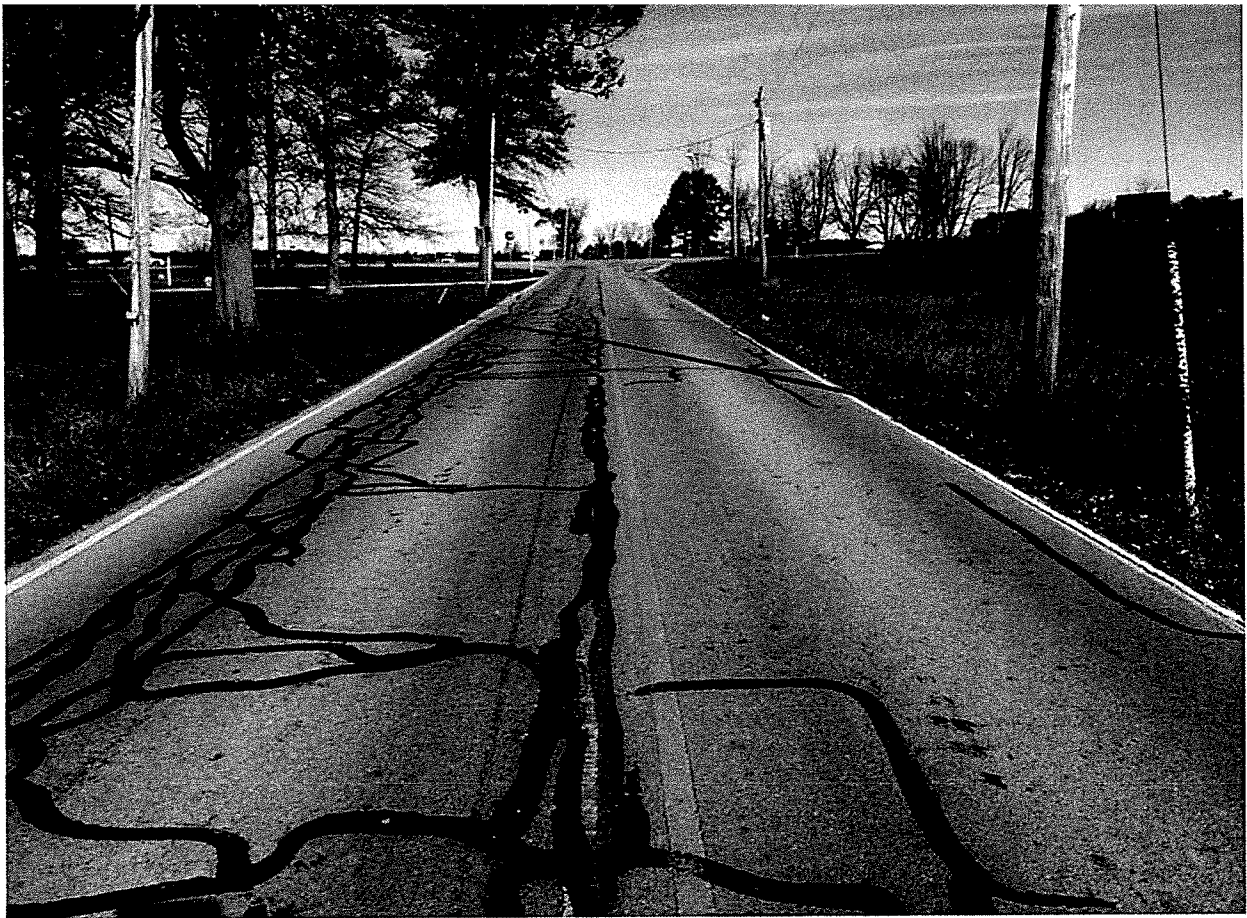
2. Looking east along SR 332 toward intersection with CR 600 W



3. Looking north along CR 600 W



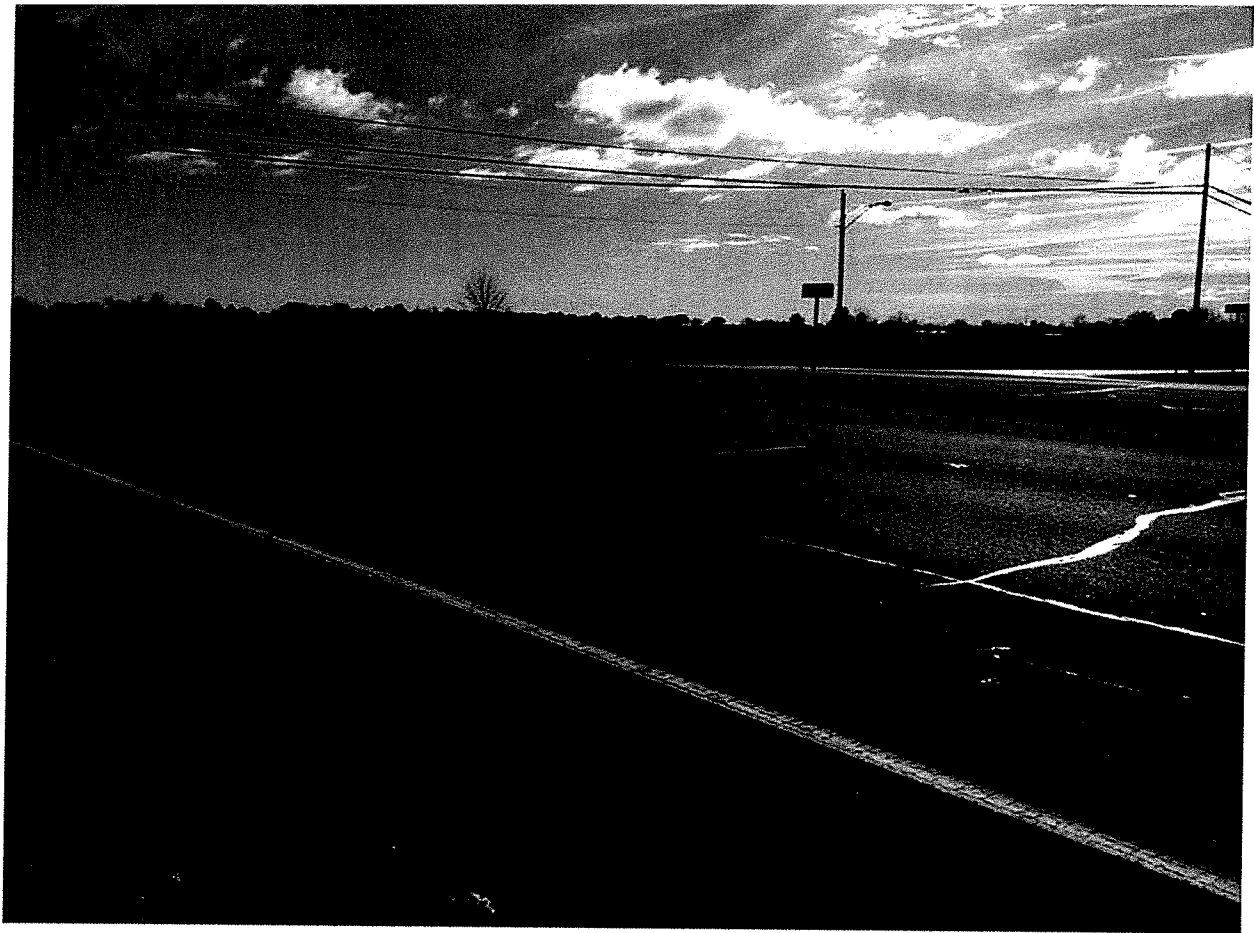
4. Looking northwest at ranch houses southwest quadrant of SR 332 and CR600 W



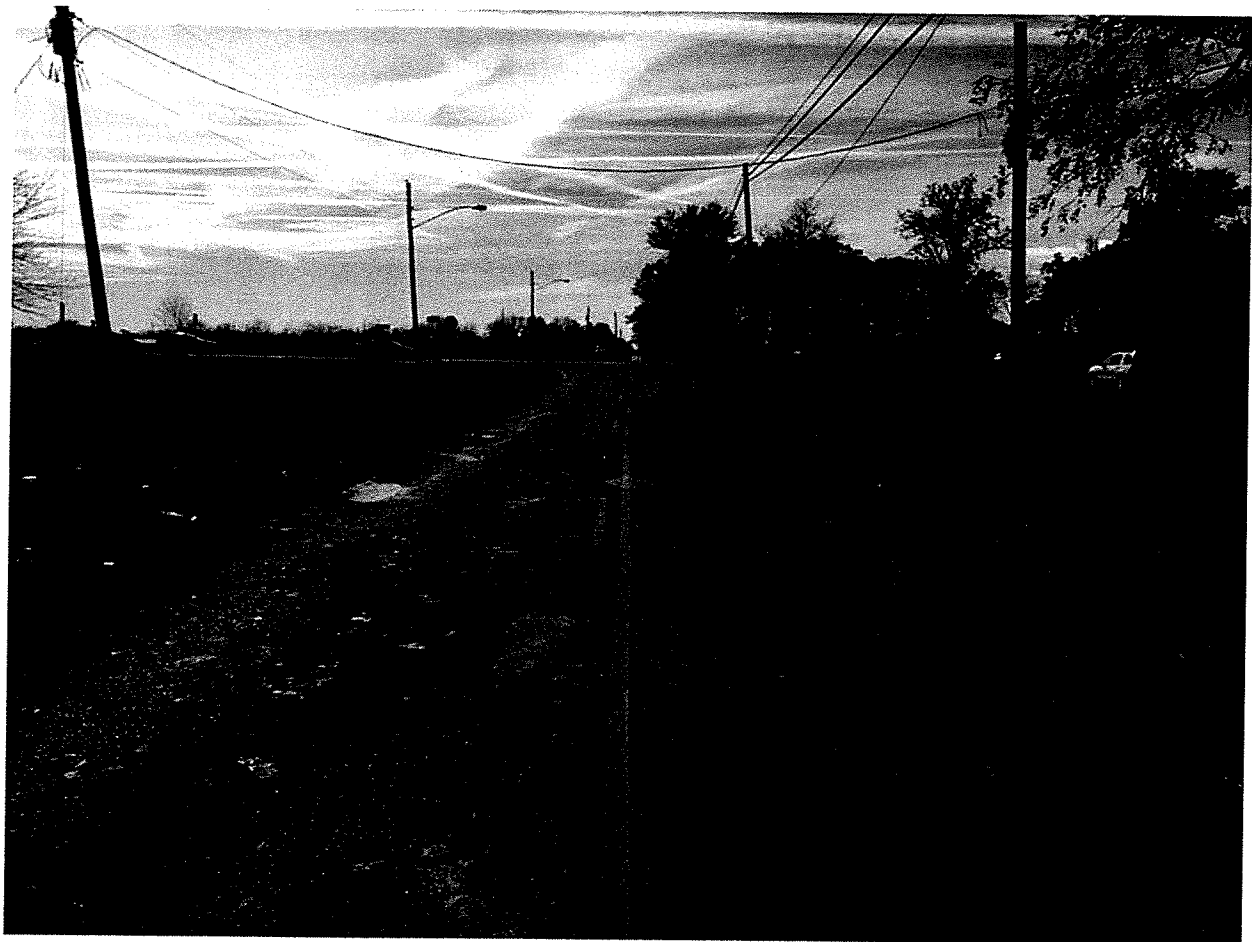
5. Looking north along CR 600 W toward intersection with SR 332



6. Looking northeast at intersection of SR 332 and CR 600 W



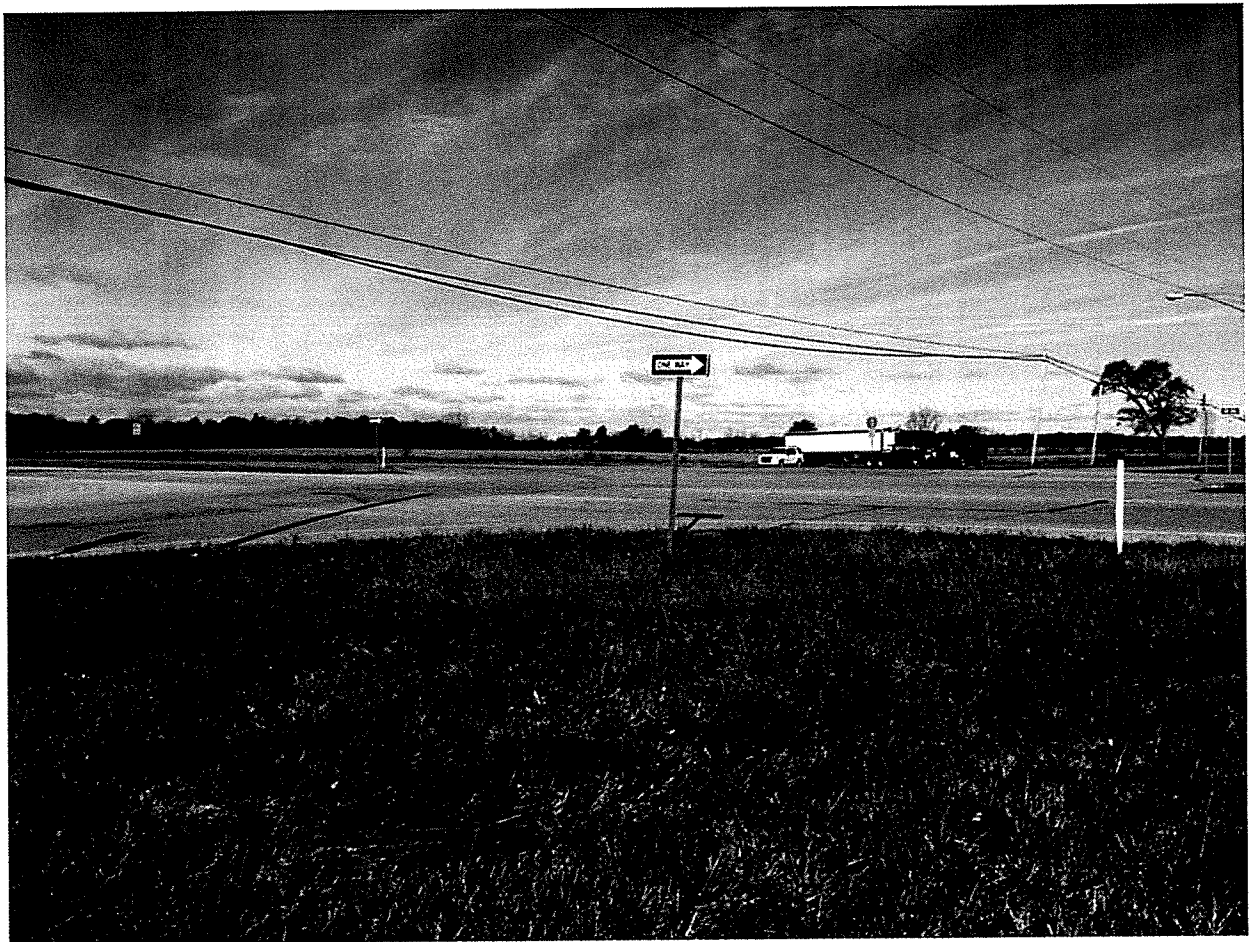
7. Looking southeast at SR 332 and CR 600 W



8. Looking south along CR 600 W toward intersection with SR 332



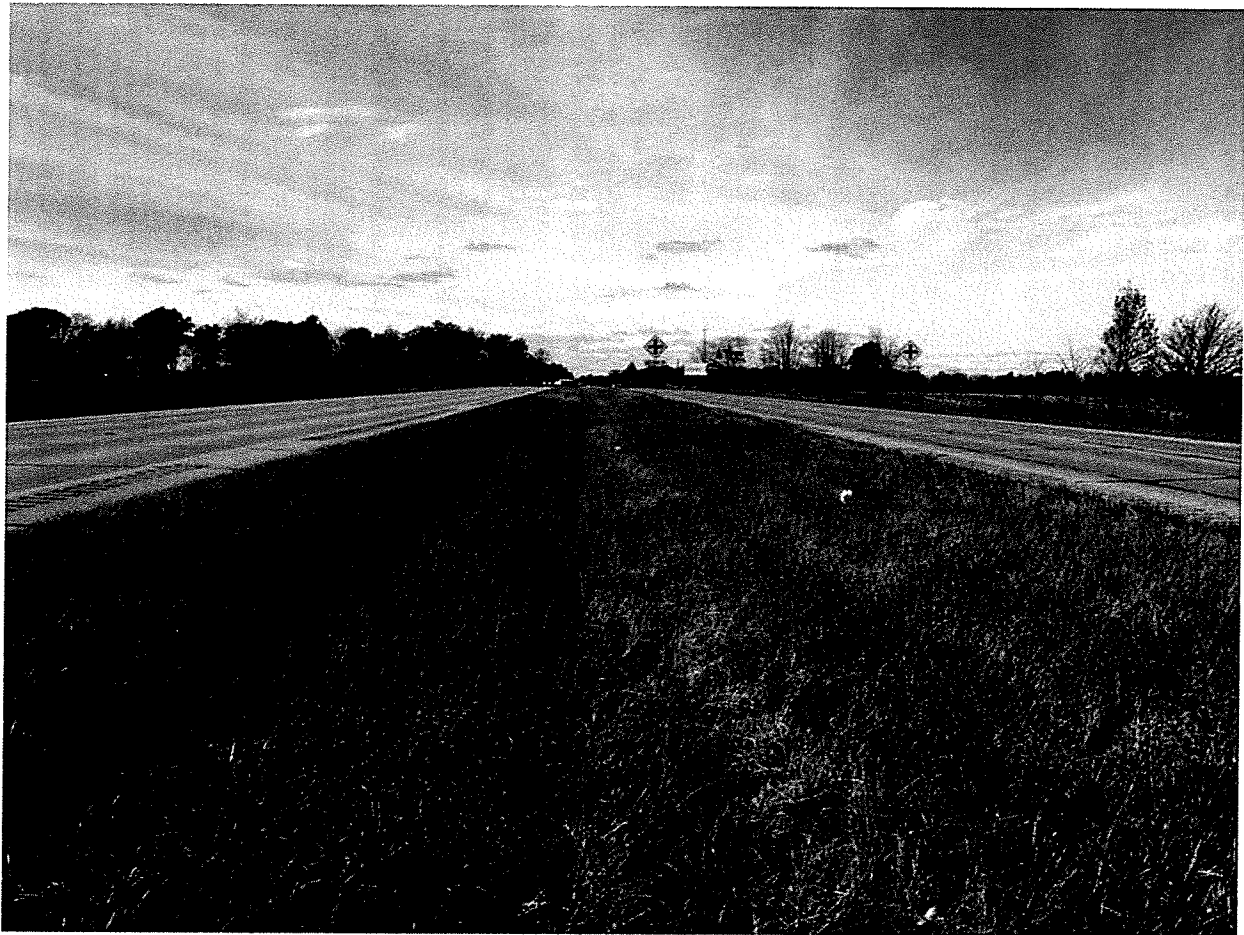
9. Looking south at intersection of SR 332 and CR 600 W



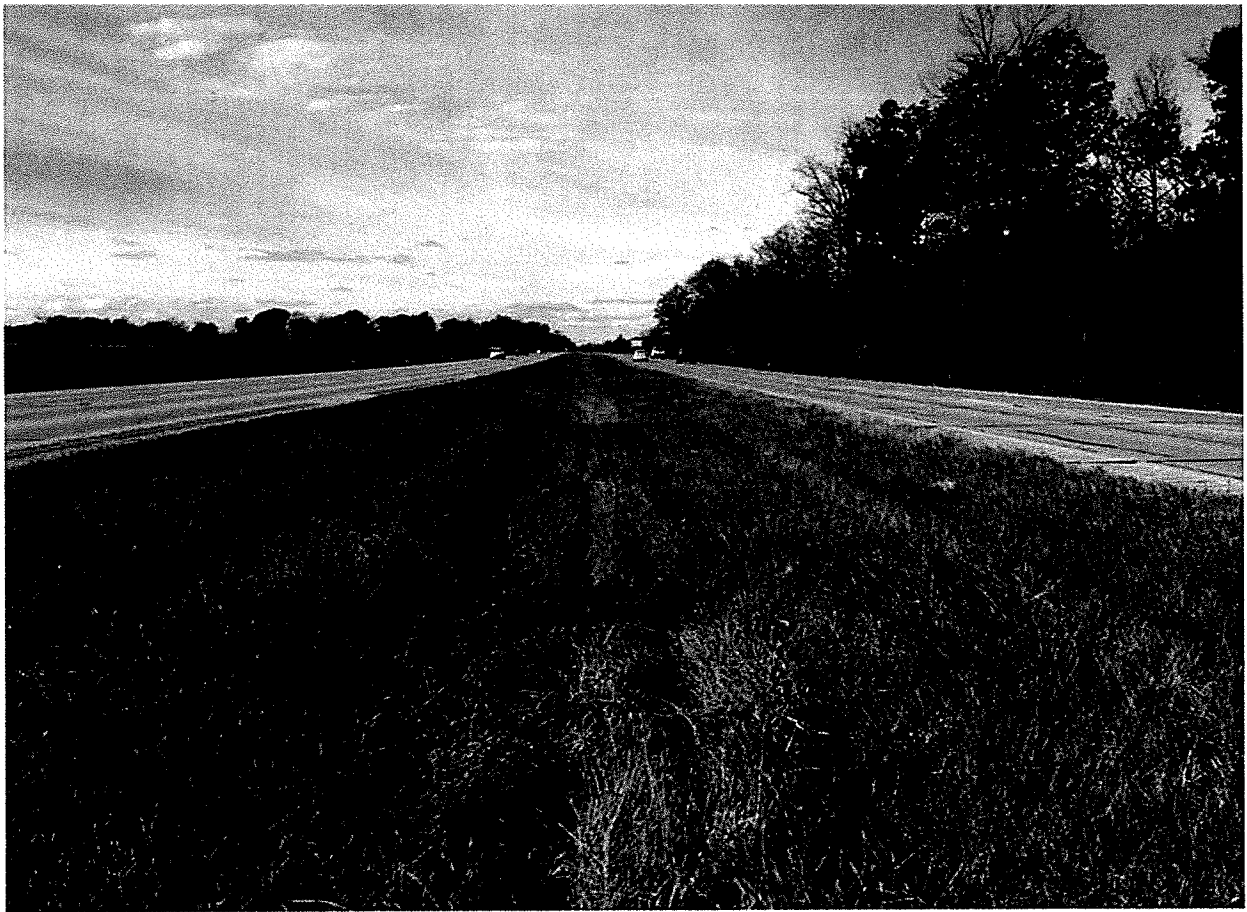
10. Looking northwest at intersection of SR 332 and CR 600 W



11. Looking south along CR 600 W



12. Looking west along SR 332 toward intersection with CR 600 W



13. Looking west along SR 332

Early Coordination

Attachment C

Preliminary Plans

DESIGNATION	
PROJECT	
CONTRACT	8.36922
BRIDGE FILE	N/A

INDIANA DEPARTMENT OF TRANSPORTATION



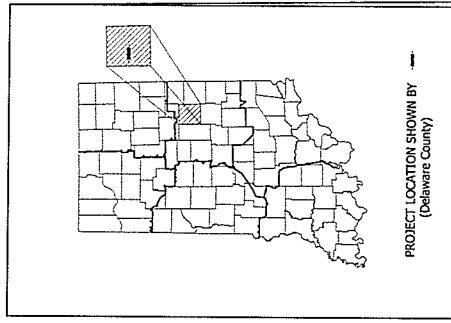
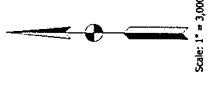
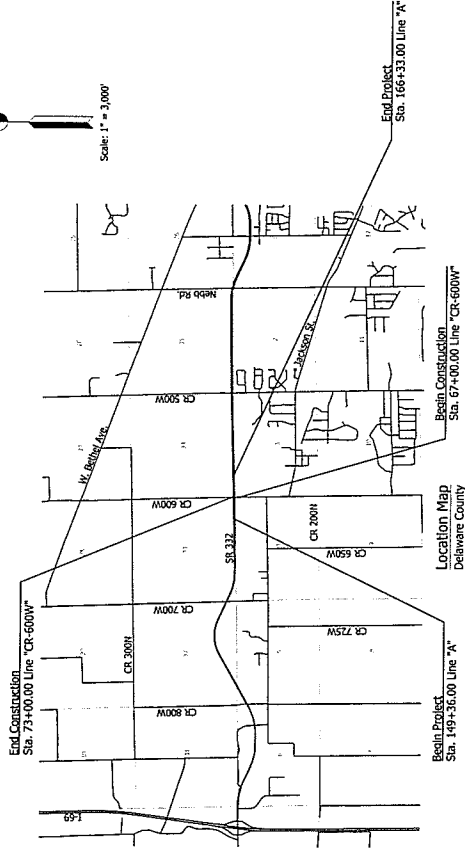
ROAD PLANS

ROUTE: SR 332 FROM: RP 3+17 TO: RP 3+57
 PROJECT NO. 1298228 P.E.
 1298228 R/W
 1298228 CONST.

Stage 2 Plans
 July 26, 2018

ADDITIONAL RIGHT-OF-WAY REQUIRED FOR THIS PROJECT

Project Description:
 Intersection Improvement at the Intersection of SR 332 and CR 600 W, located in Sections 33 & 34, T21N, R9E, Harrison Township and Sections 3 & 4, T20N, R9E, Rt. Pleasant Township, Delaware County, Indiana



PROJECT LOCATION SHOWN BY
 (Delaware County)

LATITUDE: 40°13'09" N	LONGITUDE: 85°20'00" W
BRIDGE LENGTH:	N/A
ROADWAY LENGTH:	0.43 MI.
TOTAL LENGTH:	0.43 MI.
MAX. GRADE:	1.91 %

HUC 14: # 05120301040640

TRAFFIC DATA

SR 332	CR 600W
A.A.D.T. (2017)	1,046 V.P.D.
17,597 V.P.D.	1,375 V.P.D.
22,878 V.P.D.	135 V.P.H.
1,995 V.P.H.	50% / 50%
DIRECTIONAL DISTRIBUTION	2.0% A.A.D.T.
TRUCKS	10.0 % D.H.V.
	2.0% D.H.V.

DESIGN DATA

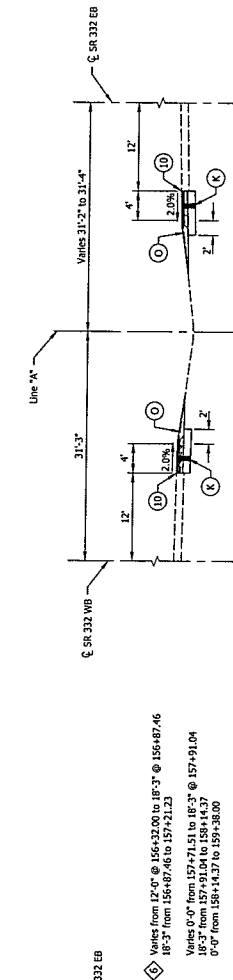
DESIGN SPEED	55 MPH	45 MPH
PROJECT DESIGN CRITERIA	3R (NON-FREIGHT)	3R (NON-FREIGHT)
FUNCTIONAL CLASSIFICATION	STATE COLLECTOR	LOCAL AGENCY COLLECTOR
RURBAN/URBAN	RURAL	RURAL
TERMINUS	LEVEL	LEVEL
ACCESS CONTROL	NONE	NONE

INDIANA DEPARTMENT OF TRANSPORTATION
 STANDARD SPECIFICATIONS DATED 2016
 TO BE USED WITH THESE PLANS

BRIDGE FILE	N/A
DESIGNATION	1298228
SHEET NO.	1
TOTAL SHEETS	41
DATE	8.36922
PROJECT NO.	1298228

DESIGNED BY:	INDIANA DEPARTMENT OF TRANSPORTATION
CHECKED BY:	
APPROVED FOR LETTING:	
DATE:	
PROJECT NUMBER:	0321232388
DATE:	

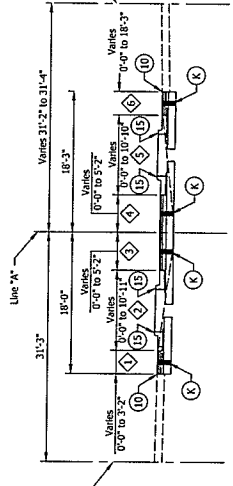
PRINTED BY:	Urbanspec Group, LLC
CERTIFIED BY:	
APPROVED FOR LETTING:	
DATE:	



TYPICAL TANGENT SECTION (S.R. 332)
Sta. 156+32.00 Line "A" to Sta. 159+38.00 Line "A"

- ① 0'-0" from 156+32.00 to 157+21.23
- ② 0'-0" from 157+21.23 to 18'-0" @ 157+40.01
- ③ 0'-0" from 18'-0" to 157+91.04
- ④ 0'-0" from 157+91.04 to 159+38.00

- ⑤ 0'-0" from 156+32.00 to 157+40.75
- ⑥ 0'-0" from 157+40.75 to 157+91.04
- ⑦ 0'-0" from 157+91.04 to 159+38.00

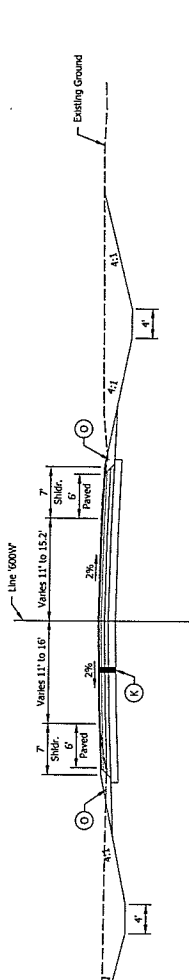


TYPICAL SHOULDER SECTION
Sta. 149+78.00 Line "A" to Sta. 159+80.00 Line "A"

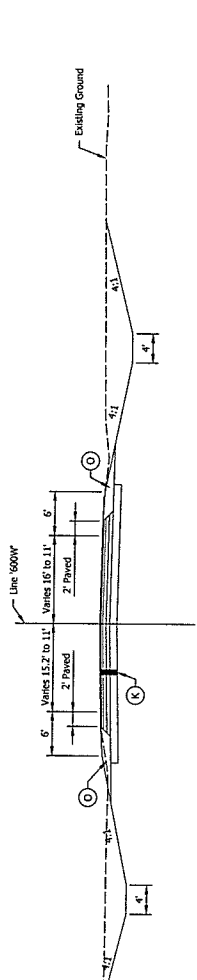
- ① 0'-0" from 149+78.00 to 157+48.75
- ② 0'-0" from 157+48.75 to 157+71.51
- ③ 0'-0" from 157+71.51 to 159+80.00

TYPICAL SHOULDER SECTION
Sta. 165+58.40 Line "A" to Sta. 166+00.00 Line "A"

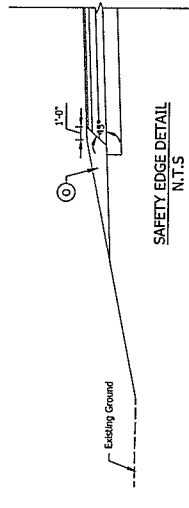
- ① 0'-0" from 165+58.40 to 166+00.00



TYPICAL SECTION - CR 600W
Sta. 67+06.57 Line 600W to Sta. 69+56.79 Line 600W



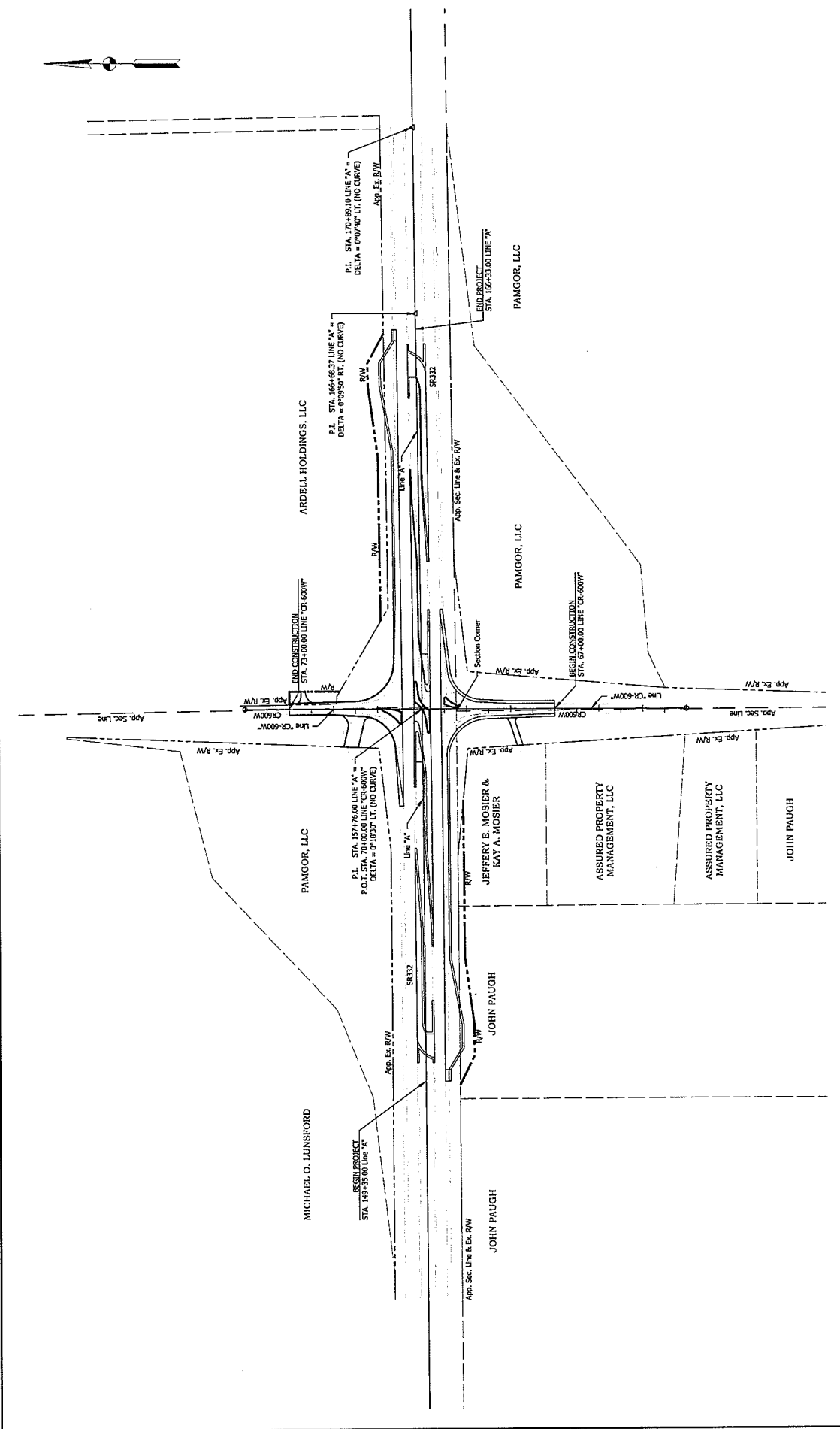
TYPICAL SECTION - CR 600W
Sta. 70+44.50 Line 600W to Sta. 72+54.36 Line 600W



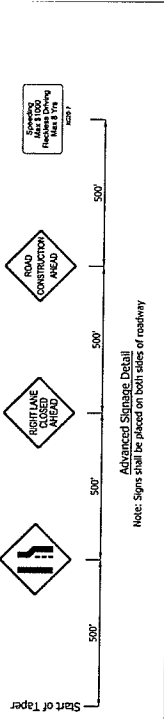
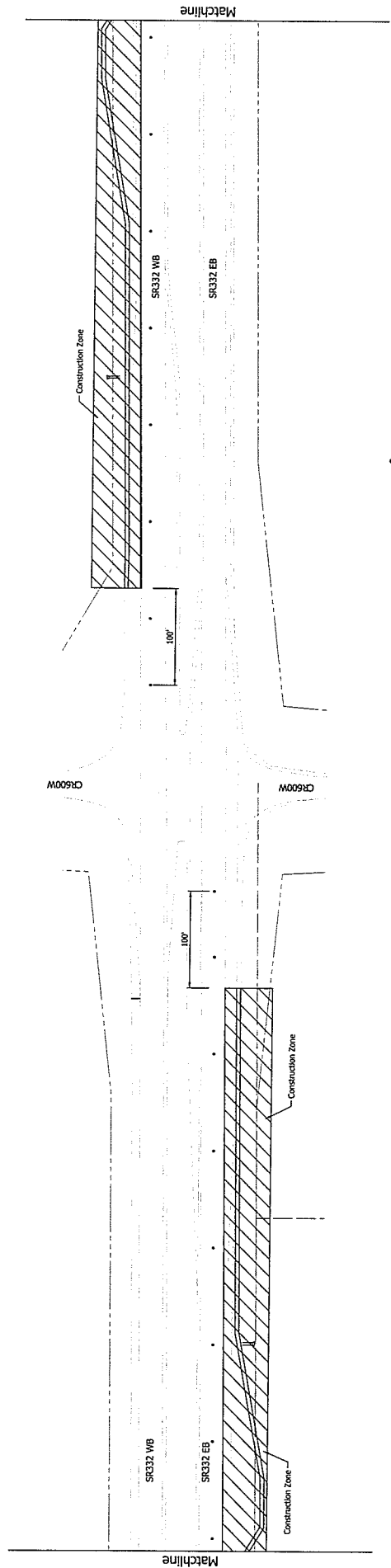
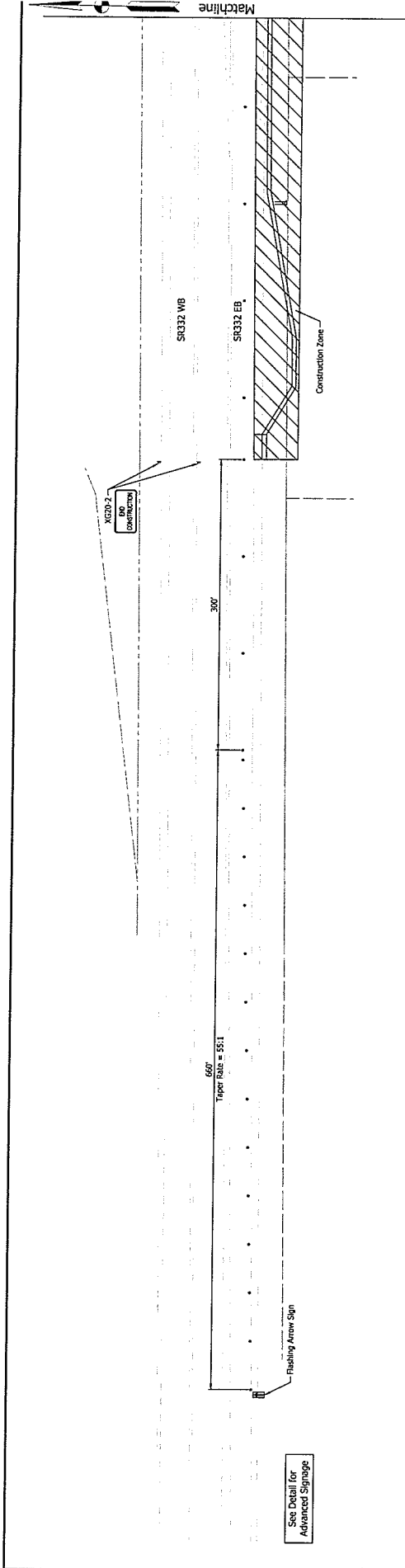
SAFETY EDGE DETAIL
N.T.S.

RECOMMENDED FOR APPROVAL DESIGNED BY: _____ CHECKED BY: _____ DATE: _____ DSC: _____ DSA: _____ DSA: _____ DSA: _____	INDIANA DEPARTMENT OF TRANSPORTATION TYPICAL SECTIONS LINE 600W	PROJECT TITLE LINE 600W
		PROJECT NUMBER 128218
SHEETS 4 of 4	SHEET BOOK 63-3022	DRAWN BY 63-3022
DESIGNED BY _____	CHECKED BY _____	DATE _____

- ① Full Depth Sawcut Rec'd
- ② Center Curb, Concrete
- ③ Subgrade Treatment, Type C
- ④ Compacted Aggregate, No. 53



RECOMMENDED FOR APPROVAL _____ DATE _____ DESIGNED BY _____ DRAWN BY _____ CHECKED BY _____		INDIANAH DEPARTMENT OF TRANSPORTATION BRIDGE FILE DESIGNATION 129628 SHEETS 5 of 43 CONTRACT PROJECT 25322	
REVISIONS NO. DATE DESCRIPTION _____ _____ _____		PLAT NO. 1 25322	

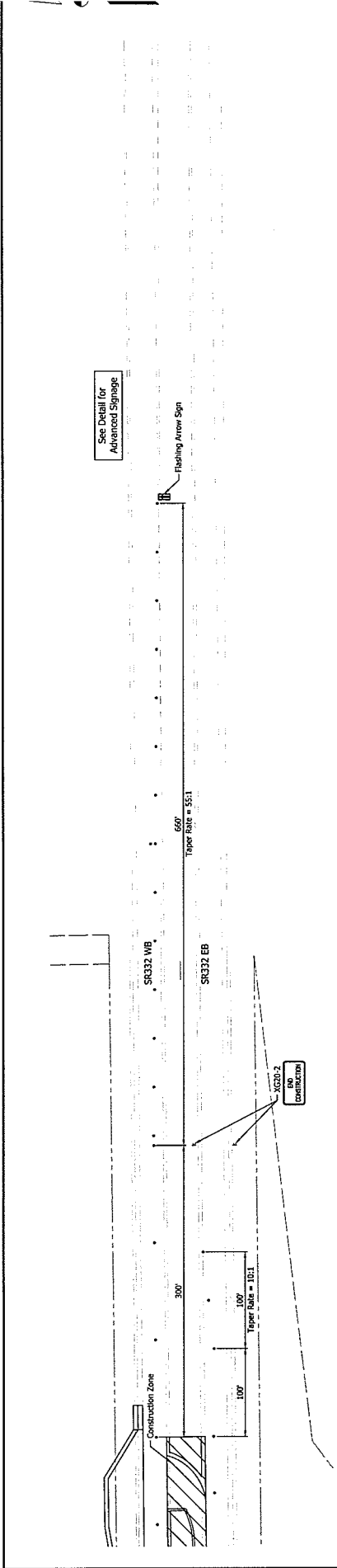


- Notes:
1. Barrel Spacing to be 60 LFT on Tangents and 30 LFT on Tapers.
 2. All Traffic Control Devices and Pavement Markings shall conform to the Indiana Manual on Uniform Traffic Control Devices, Latest Edition.
 3. Contractor shall maintain access to Commercial and Residential Properties and Farm Field Entrances at all times.

Advanced Signage Detail
 Note: Signs shall be placed on both sides of roadway

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DRAWN	DWG	BY
CHECKED	CHECKER	BY
PROJECT NO.	CONTRACT	SHEET NO.
PROJECT TITLE	CONTRACT	SHEET TOTAL
PROJECT TITLE	CONTRACT	SHEET TOTAL

INDIANA DEPARTMENT OF TRANSPORTATION	PROJECT TITLE MAINTENANCE OF TRAFFIC PHASE 1
PROJECT NO. R2-5622	SHEET NO. 6
PROJECT TITLE MAINTENANCE OF TRAFFIC PHASE 1	SHEET TOTAL 41



See Detail for Advanced Signage

Fishing Arrow Sign

650'
Taper Rate = 55:1

SK332 WB

SK332 EB

XC20-2
ROAD
CONSTRUCTION

300'

100'

100'

Taper Rate = 10:1



Start of Taper

500'

500'

500'

500'

Note: Signs shall be placed on both sides of roadway

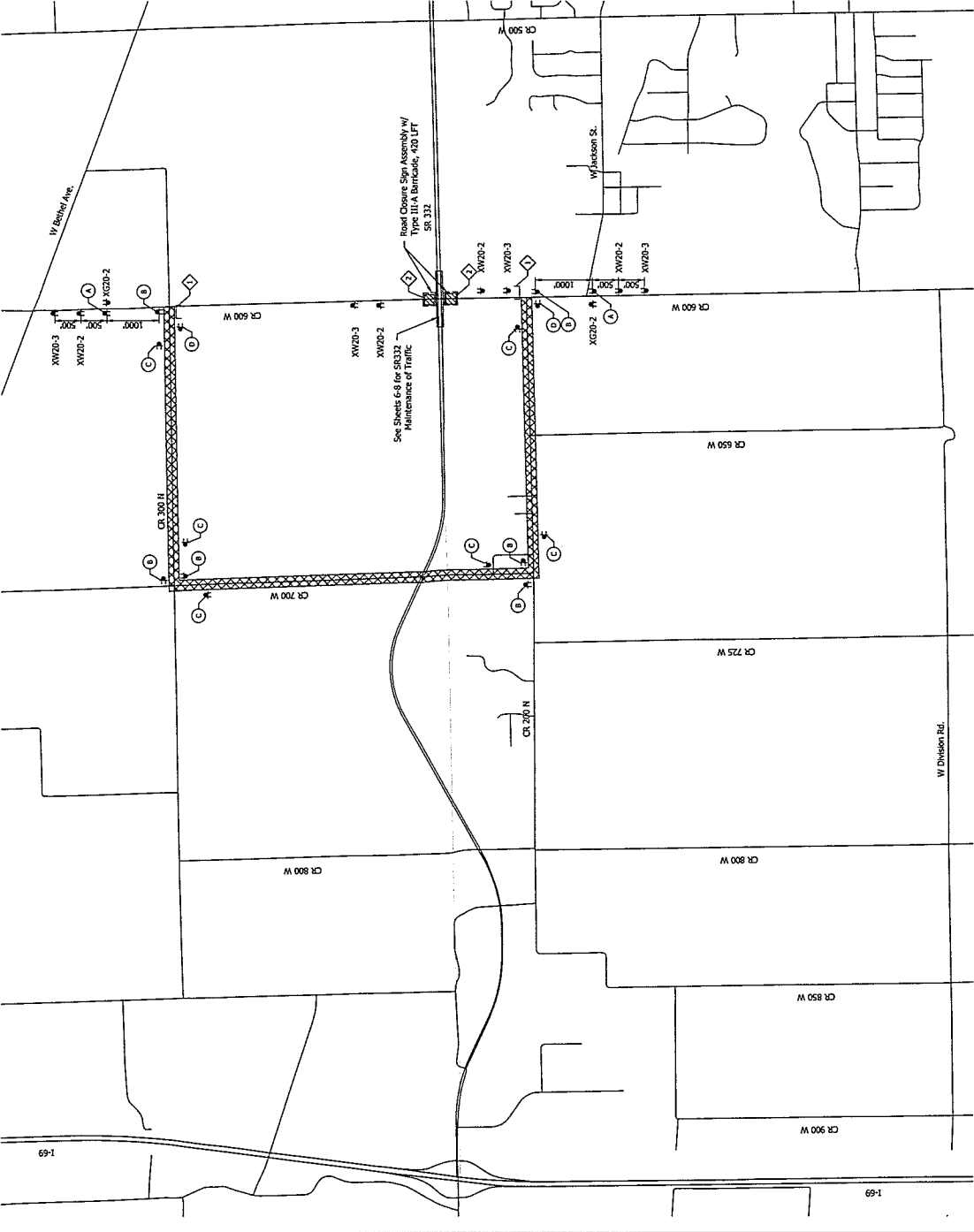
Advanced Signage Detail

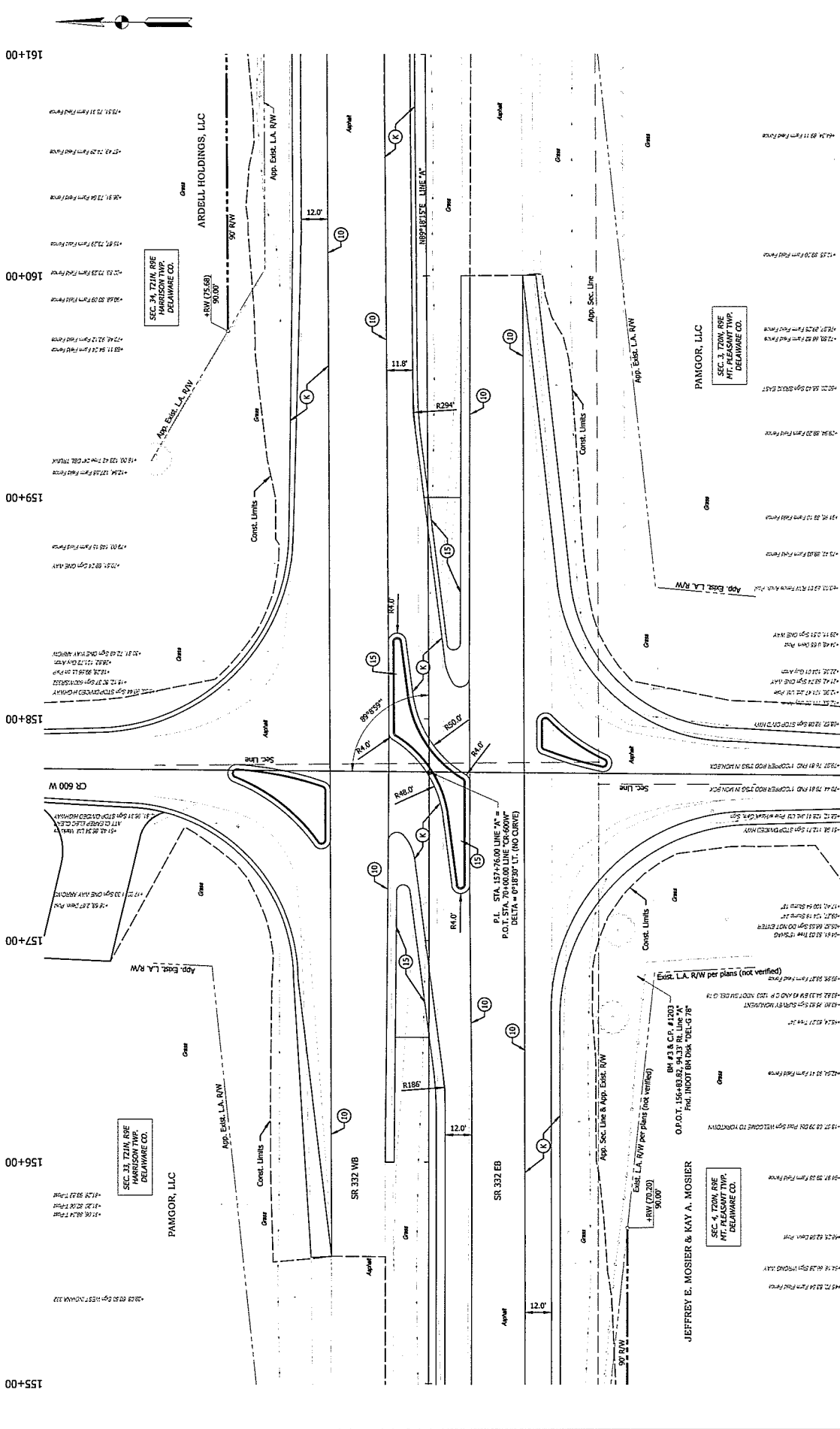
- 1. Barrel Spacing to be 60 LFT on Tangents and 30 LFT on Tapers.
- 2. All Traffic Control Devices and Payment Markings shall conform to the Indiana Manual on Uniform Traffic Control Devices, Latest Edition.
- 3. Contractor shall maintain access to Commercial and Residential Properties and Farm Field Entrances at all times.

RECOMMENDED FOR APPROVAL DESIGNER: _____ DATE: _____ CHECKED: BJA _____ DRAWN: DFE _____ CHECKED: BJA _____	INDIANA DEPARTMENT OF TRANSPORTATION MAINTENANCE OF TRAFFIC PHASE 2	BRIDGE FILE: N/A DESIGNATION: 128828 SHEET BOOK: 9 PROJECT: 41 CONTRACT: R-38922 PROJECT: 128828
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SIGN NO.	DESCRIPTION	SIZE (IN)	TYPE	EST. QTY.
XW20-1	ROAD CLOSED AHEAD SIGN	36 X 36	A	2
XW20-2	ROAD CLOSED AHEAD SIGN	36 X 36	B	2
XG20-2	ROAD CLOSED AHEAD SIGN	36 X 48	B	2
TOTAL TYPE "A" SIGNS				4
TOTAL TYPE "B" SIGNS				2

DETOUR ROUTE NUMBER ASSEMBLY:
 TYPE III A BARRICADE: 281 LFT.
 TYPE III B BARRICADE: 24 LFT.





HORIZONTAL SCALE 1" = 20'		VERTICAL SCALE 1" = 10'	
BRIDGE ELEV. N/A		DESIGNATION 159218	
SHEETS 13		CONTRACT R-3632	
PROJECT 44		SHEET NO. 13	

INDIANA DEPARTMENT OF TRANSPORTATION	
PLAN - LINE A STA. 155+00 TO 161+00	

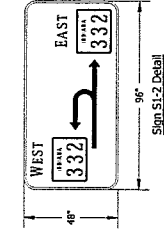
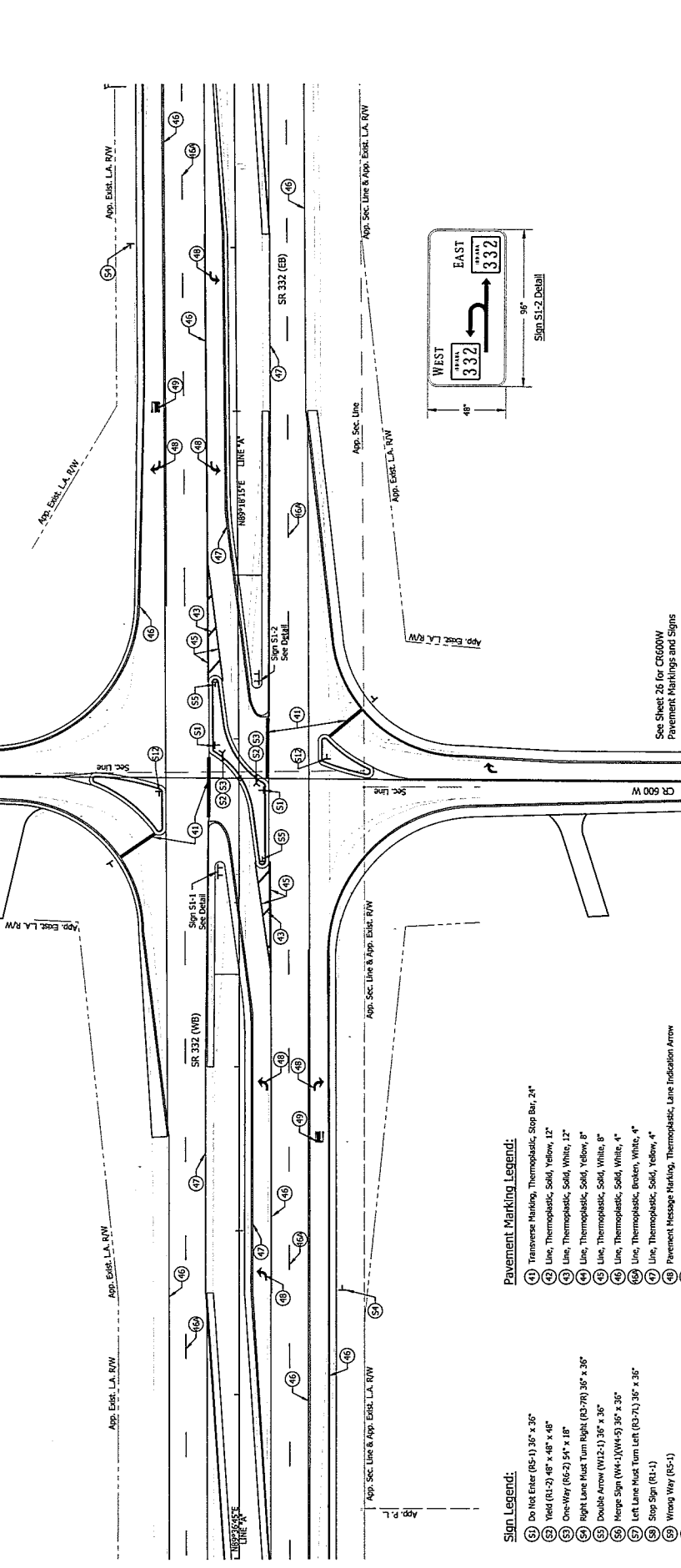
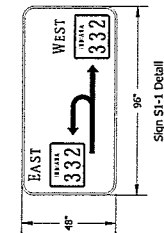
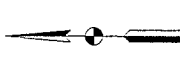
RECOMMENDED FOR APPROVAL	DATE
DESIGNED BY: BDC	DRAWN BY: DIS
CHECKED BY: BWA	BWA

P.L. STA. 157+76.00 LINE "A" = P.O.T. STA. 70+00.00 LINE "CR-600W" DELTA = 0+16.00' (1/4" CURVE)	P.L. STA. 157+76.00 LINE "A" = P.O.T. STA. 70+00.00 LINE "CR-600W" DELTA = 0+16.00' (1/4" CURVE)
O.P.O.T. 156+43.82, 143.37 R/L LINE "A" Fwd. JNDOT BR DSK "DEL-G-78"	O.P.O.T. 156+43.82, 143.37 R/L LINE "A" Fwd. JNDOT BR DSK "DEL-G-78"

(K) 65 lbs/yds HMA CCQR 4, 76; Surfaces, 9.5mm on 330 lbs/yds HMA CCQR 4, 76; Intermediate, 19mm on 330 lbs/yds HMA CCQR 4, 76; Base, 20mm on Subgrade Treatment, Type IC

Date: 04/26/2018 11:58am User: kmcneil
 Path: S:\2018\159218\159218.dwg

153+00 154+00 155+00 156+00 157+00 158+00 159+00 160+00 161+00 162+00

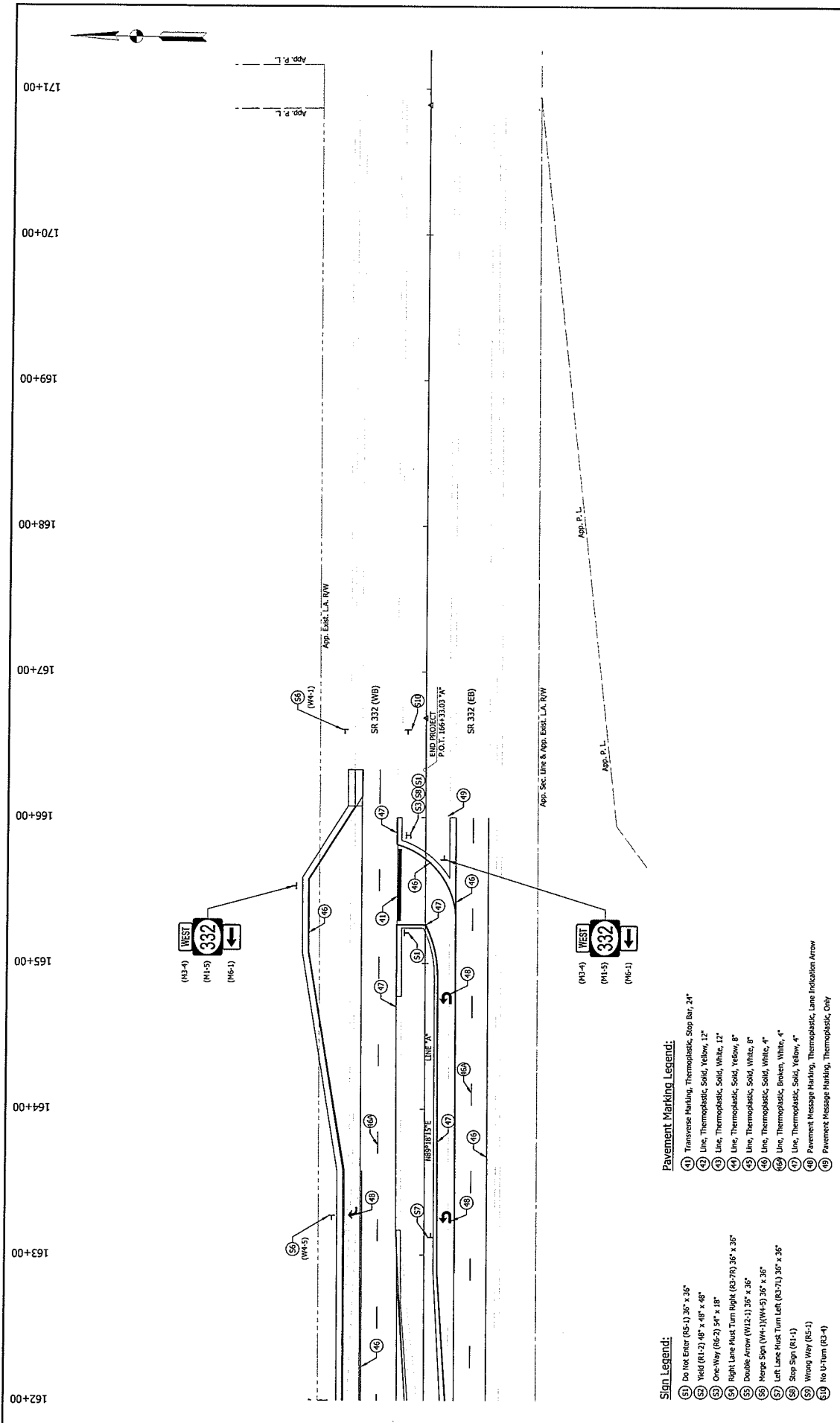


- Sign Legend:**
- (51) No Exit (R5-1) 36" x 36"
 - (52) Yield (R1-2) 48" x 48" x 48"
 - (53) One-Way (R6-2) 54" x 18"
 - (54) Right Lane Must Turn Right (R3-7R) 36" x 36"
 - (55) Double Arrow (W12-1) 36" x 36"
 - (56) Merge Sign (W4-1)(W4-5) 36" x 36"
 - (57) Left Lane Must Turn Left (R3-7L) 36" x 36"
 - (58) Stop Sign (R1-1)
 - (59) Wrong Way (R2-1)
 - (60) Object Marker (O10-2V)
- Pavement Marking Legend:**
- (41) Transverse Marking, Thermoplastic, Stop Bar, 24"
 - (42) Line, Thermoplastic, Solid, Yellow, 12"
 - (43) Line, Thermoplastic, Solid, White, 12"
 - (44) Line, Thermoplastic, Solid, Yellow, 8"
 - (45) Line, Thermoplastic, Solid, White, 8"
 - (46) Line, Thermoplastic, Solid, White, 4"
 - (47) Line, Thermoplastic, Broken, White, 4"
 - (48) Pavement Message Marking, Thermoplastic, Lane Indication Arrow
 - (49) Pavement Message Marking, Thermoplastic, Only

See Sheet 26 for CR600W
Pavement Markings and Signs

PROJECT FILE	BRIDGE FILE	INDIANA	INDIANA
N/A	N/A	DEPARTMENT OF TRANSPORTATION	DEPARTMENT OF TRANSPORTATION
DESIGNATION	DESIGNATION	PAVEMENT MARKINGS	PAVEMENT MARKINGS
1360228	1360228	AND SIGNING	AND SIGNING
SURVEY BOOK	SURVEY BOOK		
24	24		
SHEETS	SHEETS		
44	44		
CONTRACT	CONTRACT		
R-30502	R-30502		
DATE	DESIGN ENGINEER		
DESIGNED: BJC	DRAWN: BJC	CHECKED: BJA	IN CHARGE: BJA

FILED AT 05:25:2018 12:00PM INDIANAPOLIS, INDIANA



Pavement Marking Legend:

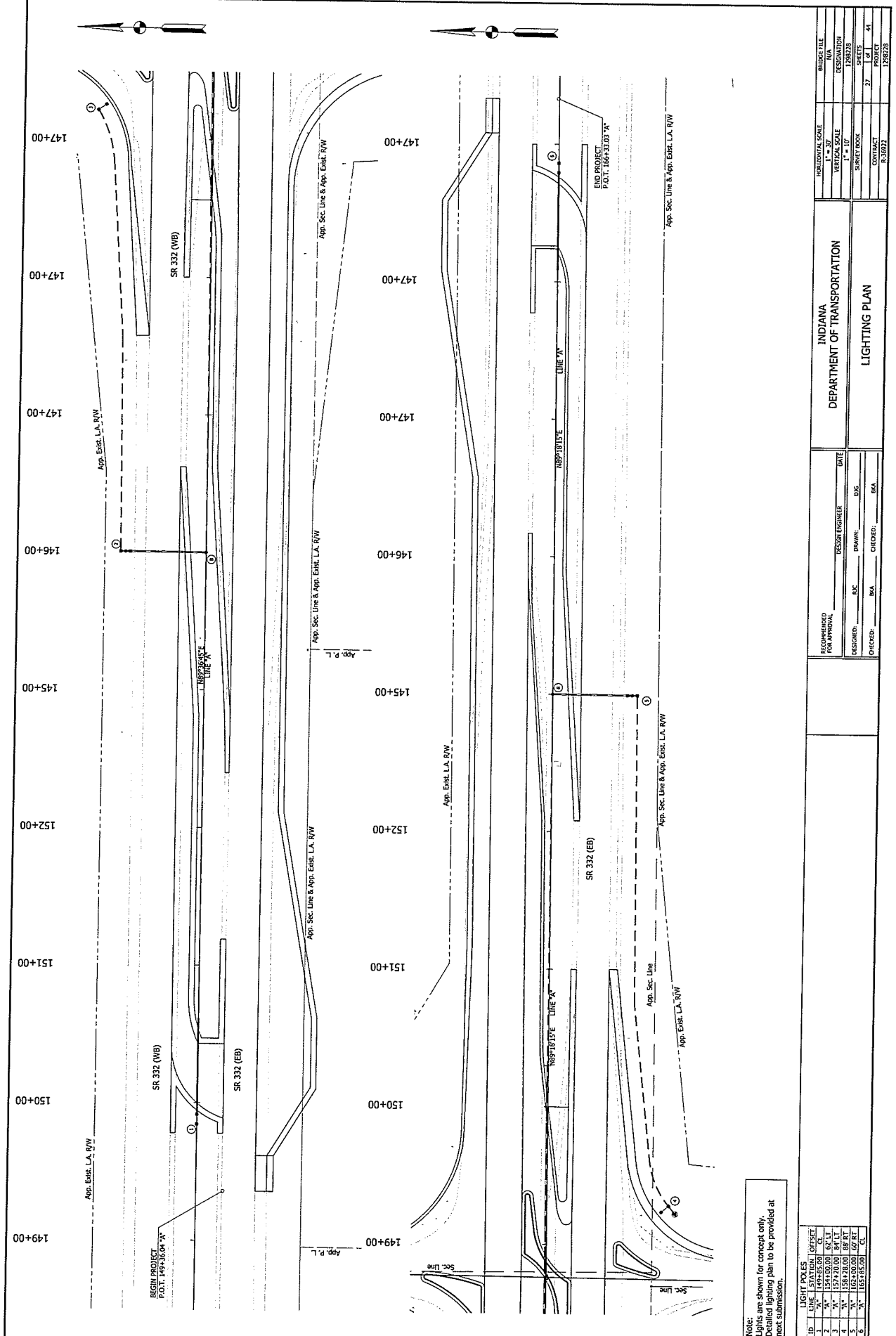
- 41 Transverse Marking, Thermoplastic, Stop Bar, 24"
- 42 Line, Thermoplastic, Solid, Yellow, 12"
- 43 Line, Thermoplastic, Solid, White, 12"
- 44 Line, Thermoplastic, Solid, Yellow, 8"
- 45 Line, Thermoplastic, Solid, White, 8"
- 46 Line, Thermoplastic, Solid, White, 4"
- 47 Line, Thermoplastic, Broken, White, 4"
- 48 Pavement Message Marking, Thermoplastic, Lane Indication Arrow
- 49 Pavement Message Marking, Thermoplastic, Only

Sign Legend:

- 51 No Box Sign (R5-1) 36" x 36"
- 52 Field (R1-2) 48" x 48" x 48"
- 53 One-Way (R6-2) 54" x 18"
- 54 Right Lane Must Turn Right (R3-7R) 36" x 36"
- 55 Double Arrow (W12-1) 36" x 36"
- 56 Hoop Sign (W4-JW4-3) 36" x 36"
- 57 Left Lane Must Turn Left (R3-7L) 36" x 36"
- 58 Stop Sign (R1-1)
- 59 Wrong Way (R5-1)
- 60 No U-Turn (R3-4)

RECOMMENDED FOR APPROVAL		DESIGNER	DATE
R.C.	DWG.	DWG.	DATE
CHECKED:	BY:	CHECKED:	BY:
INDIANA DEPARTMENT OF TRANSPORTATION			
PAVEMENT MARKINGS AND SIGNING			
PROJECT TITLE	PROJECT SCALE	DESIGNATION	DATE
1386238	N/A	SR-332	12/28/18
SHEET NO.	SHEET TOTAL	CONTRACT	PROJECT NO.
75	75	18-5921	1386238

Date: 12/28/18 11:26am User: jacob.mitchell
 File: I:\2018\18-5921\18-5921-PAVEMENT MARKINGS AND SIGNING\18-5921-PAVEMENT MARKINGS AND SIGNING.dwg



Note:
 Lights are shown for concept only.
 Proposed lighting plan to be provided at
 next submission.

ID	LINE	START	OFFSET
1	"A"	149+85.00	CL
2	"A"	151+00.00	62' LT
3	"A"	151+00.00	58' RT
4	"A"	152+50.00	58' RT
5	"A"	152+50.00	52' RT
6	"A"	155+45.00	CL

BRIDGE FILE	N/A
DESIGNATION	INDIANA
PROJECT	SR 332
CONTRACT	R-38927
DATE	1/21/14
PROJECT	1798278

INDIANA
 DEPARTMENT OF TRANSPORTATION
 LIGHTING PLAN

RECOMMENDED FOR APPROVAL	DATE
DESIGNED BY	DESIGN ENGINEER
DRAWN BY	DIC
CHECKED BY	BA
DATE	BA

File Path: S:\1798278\1798278.dwg
 Project: SR 332
 Date: 1/21/14
 User: [Name]
 Title: [Title]

