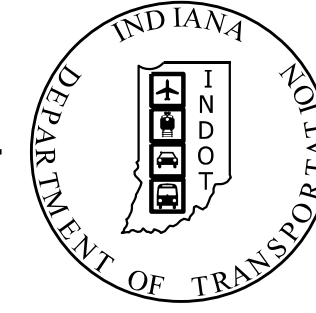


PROJECT	DESIGNATION
1702989	1702989
CONTRACT	
R-43059	

INDIANA DEPARTMENT OF TRANSPORTATION



ROAD PLANS

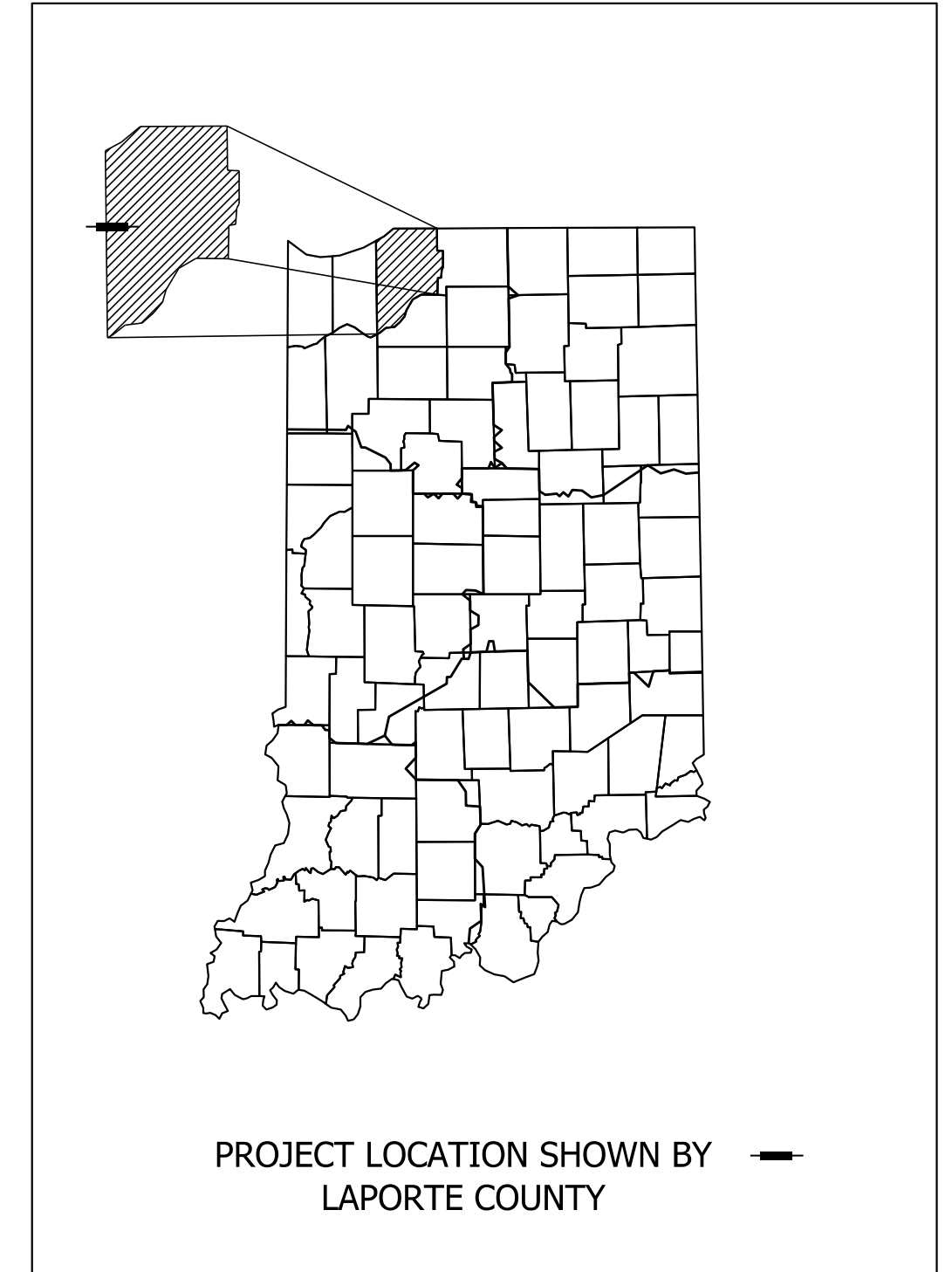
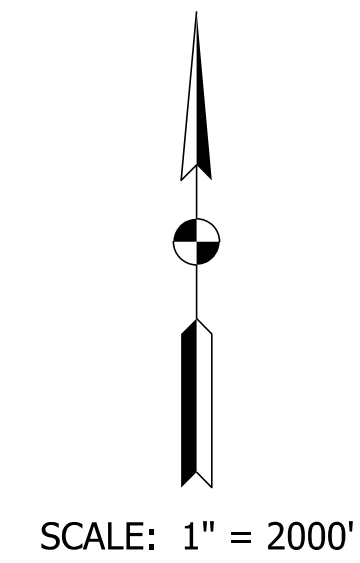
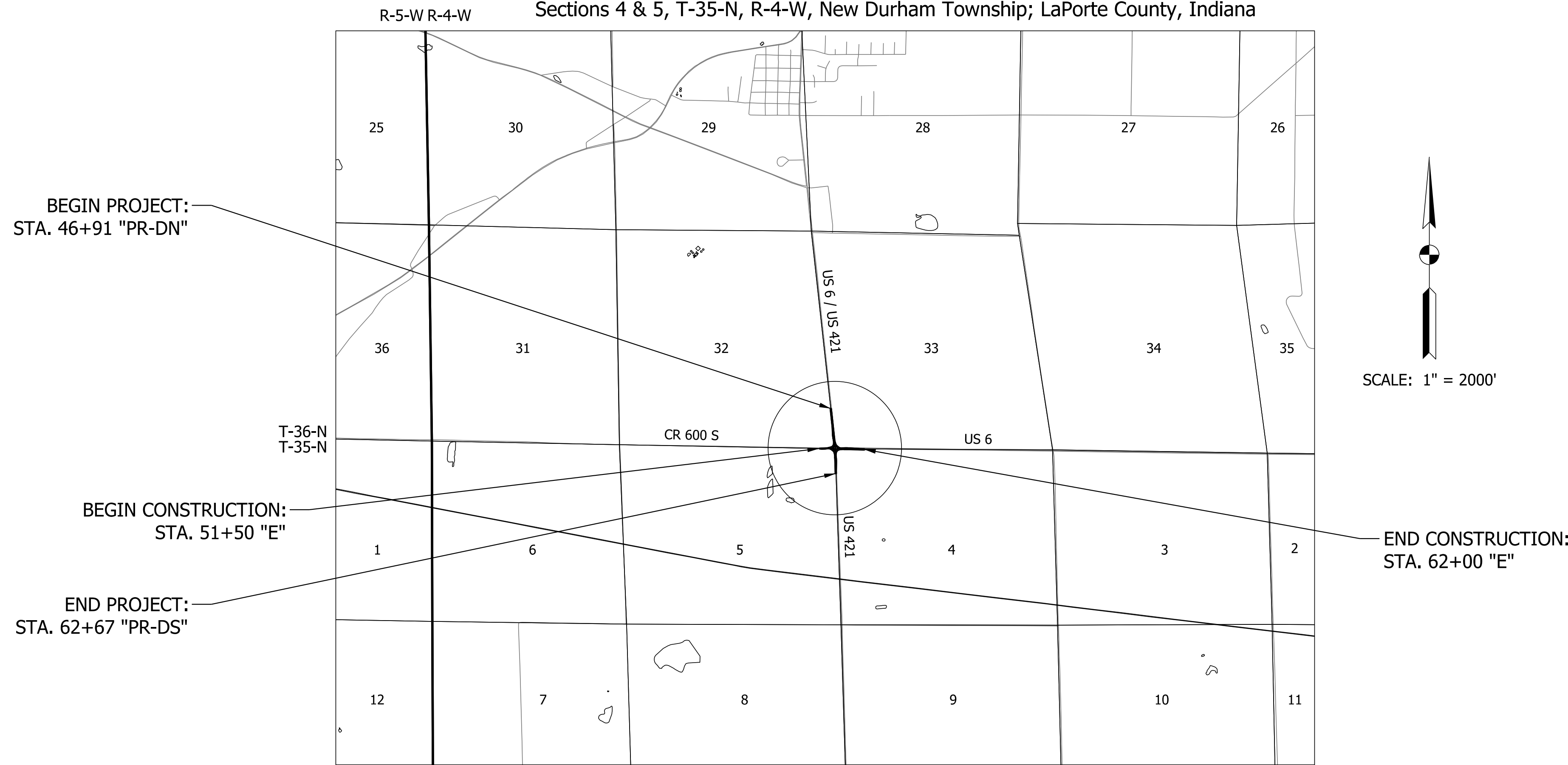
ROUTE: US 6 FROM: RP 36+60 to RP 36+60

PROJECT NO. 1702989 P.E.
 1702989 R/W
 1702989 CONST.

TRAFFIC DATA	North Approach	South Approach	East Approach	West Approach	
	US 6 & US 421	US 421	US 6	CR 600 S	
A.A.D.T. (2022)	5,910	3,890	3,460	1,000	V.P.D.
A.A.D.T. (2042)	6,490	4,270	3,800	1,100	V.P.D.
D.H.V. (2042)	588	380	347	110	V.P.H.
DIRECTIONAL DISTRIBUTION	56%	56%	53%	58%	%
TRUCKS	18.5%	15.0%	19.8%	2.5%	A.A.D.T.
	13.5%	14.1%	13.2%	2.2%	D.H.V.

DESIGN DATA	45	45	55	40	M.P.H.
PROJECT DESIGN CRITERIA	Reconstruction (4R), Non-Freeway				
FUNCTIONAL CLASSIFICATION	US 6 & US 421: Principal Arterial-Other				CR 600 S: Minor Collector
RURAL/URBAN					RURAL
TERRAIN					LEVEL
ACCESS CONTROL					NONE

New Construction Roundabout at Intersection of US 6 and US 421, South Junction
 Sections 32 & 33, T-36-N, R-4-W, Clinton Township; and
 Sections 4 & 5, T-35-N, R-4-W, New Durham Township; LaPorte County, Indiana



LATITUDE: 41° 31' 06" N LONGITUDE: 86° 53' 39" W

GROSS LENGTH:	0.30	MI.
NET LENGTH:	0.30	MI.
MAX. GRADE:	2.00	%

STAGE 2 PLANS

INDIANA DEPARTMENT OF TRANSPORTATION
 STANDARD SPECIFICATIONS DATED 2021
 TO BE USED WITH THESE PLANS

PLANS PREPARED BY:	GAI Consultants Inc.	317-570-6800
		PHONE NUMBER
CERTIFIED BY:		DATE
APPROVED FOR LETTING:		DATE
	INDIANA DEPARTMENT OF TRANSPORTATION	

	DESIGNATION	
	1702989	
SURVEY BOOK	SHEETS	
	1 of 59	
CONTRACT	PROJECT	
R-43059	1702989	

UTILITIES

Electric

Kankakee Valley REMC
8642 W. US Hwy 30 PO Box 157
Wanatah, IN 46390
Contact: Jacob Bailey
Phone: (219)733-2511
Email: jbailey@kyremc.com

NIPSCO Electric (LaPorte)
801 East 86th Avenue
Merrillville, IN 46410
Contact:
Phone: (219)647-4912
Email: utilitycoordination@nisource.com

Sanitary

Town of Westville
904 W Main Street
Westville, IN 46391
Contact: Nathan Howell
Phone: (219)785-2413
Email: westville.utility@westville.us

Gas

NIPSCO Gas (LaPorte)
801 East 86th Avenue
Merrillville, IN 46410
Contact: Dean Garrett
Phone: (219)647-4912
Email: utilitycoordination@nisource.com

Water

Town of Westville
908 Stanley Drive
Westville, IN 46391
Contact:
Phone: (219)785-1880
Email: westville.utility@westville.us

Communication

Frontier
8001 West Jefferson Blvd
Fort Wayne, IN 46804
Contact: Joe Sarll
Phone: (260)461-3324
Email: utilitycordreq@ftr.com

Mediacom, LLC (Auburn)
3900 26th Avenue
Moline, IL 61265
Contact: Scott Roberts
Phone: (217)345-553
Email: sroberts@mediacomcc.com

GENERAL NOTES

INDEX

SHEET NO.	DRAWINGS INDEX
1	TITLE
2	INDEX AND GENERAL NOTES
3 - 5	TYPICAL SECTIONS
6 - 7	TEMPORARY TRAFFIC CONTROL
8 - 10	LOCATION CONTROL ROUTE SURVEY
11 - 13	GEOMETRIC TIE SHEETS
14 - 20	PLAN AND PROFILES
21 - 29	CONSTRUCTION DETAILS
30 - 33	EROSION CONTROL DETAILS
34 - 35	APPROACH TABLES
36	MISCELLANEOUS TABLES
37 - 59	CROSS SECTIONS

Plc:1/19/2022 2:35:23 PM By: muramw Per: Transportation.tbl Model: Index and General Notes

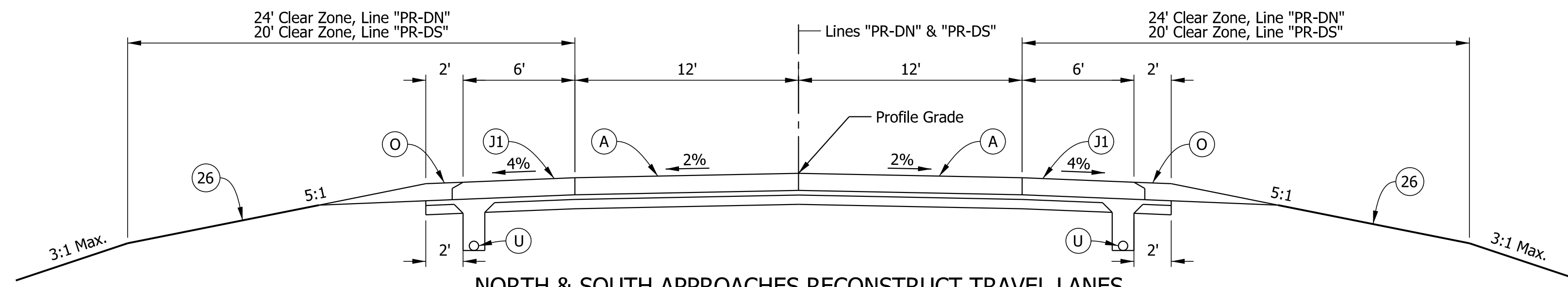


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DESIGNED: JJV _____	DRAWN: ZJM _____	
CHECKED: REW _____	CHECKED: REW _____	

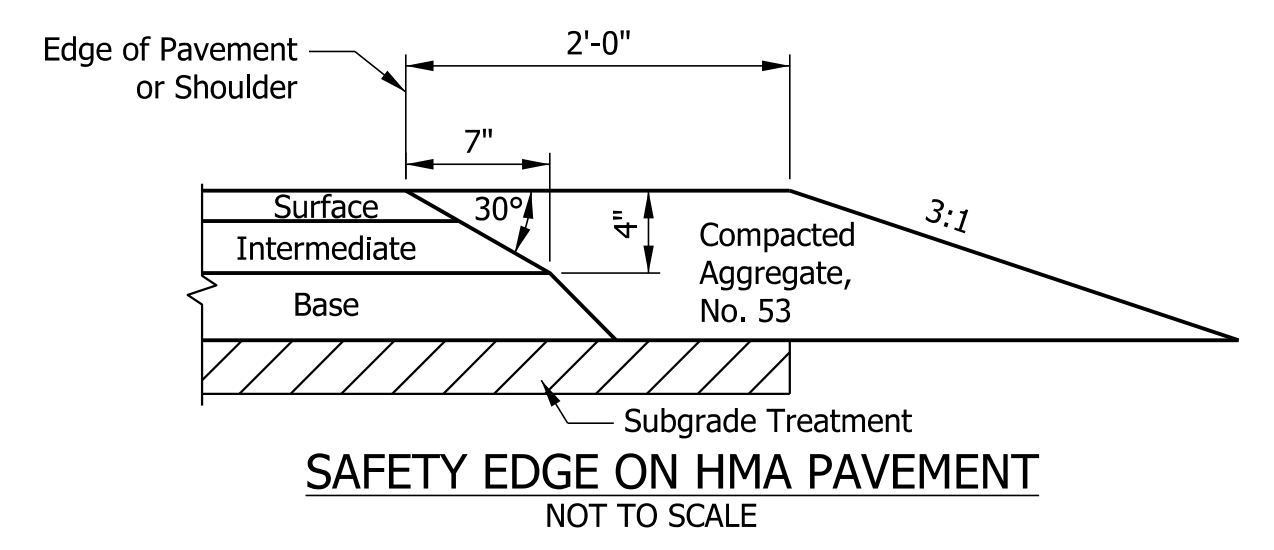
INDIANA
DEPARTMENT OF TRANSPORTATION

INDEX AND GENERAL NOTES

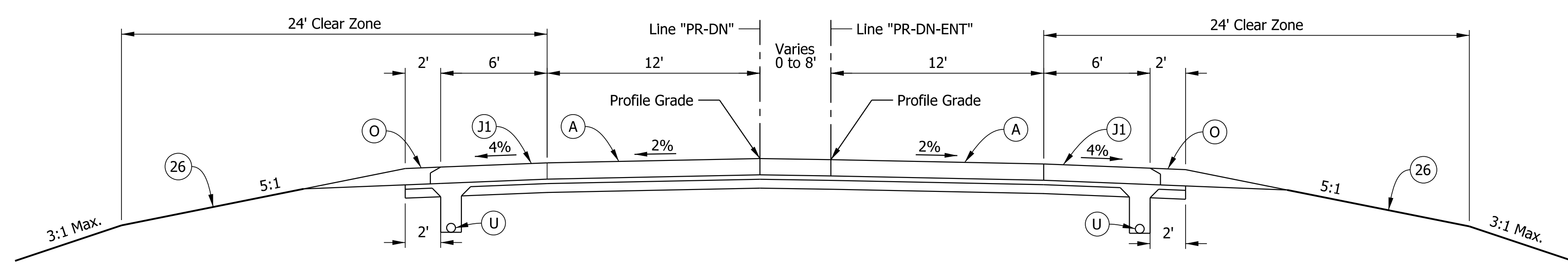
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	DESIGNATION 1702989
SURVEY BOOK	SHEETS 2 of 59
CONTRACT R-43059	PROJECT 1702989



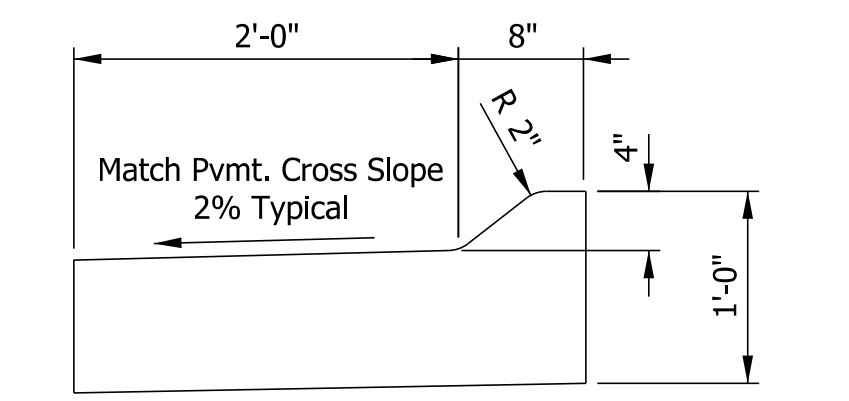
NORTH & SOUTH APPROACHES RECONSTRUCT TRAVEL LANES
 P.O.T. 46+91 Line "PR-DN" to P.O.T. 51+00 Line "PR-DN"
 P.O.T. 62+50 Line "PR-DS" to P.O.T. 62+67 Line "PR-DS"



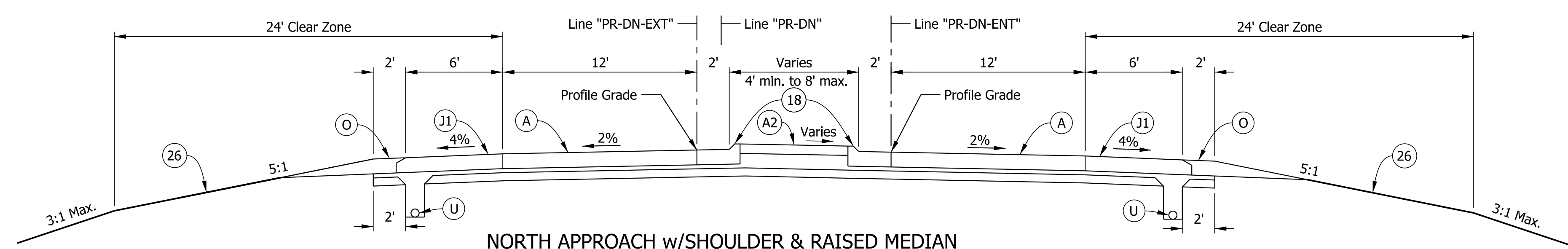
SAFETY EDGE ON HMA PAVEMENT
 NOT TO SCALE



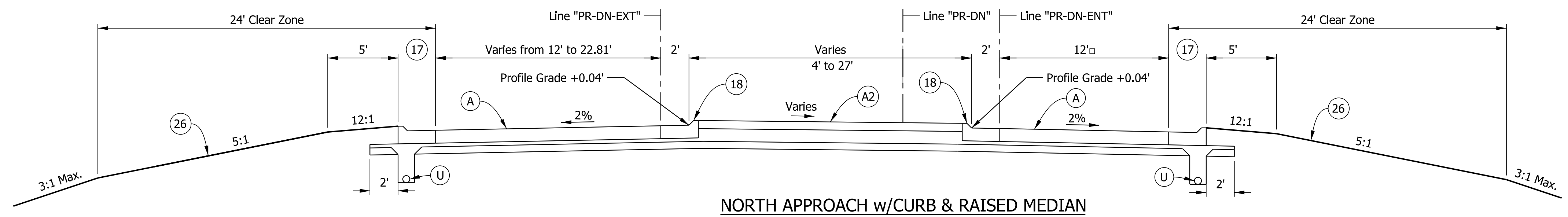
NORTH APPROACH w/SHOULDER & FLUSH MEDIAN
 P.O.T. 51+00 Line "PR-DN" to P.O.T. 52+69.64 Line "PR-DN"
 P.C. 51+00 Line "PR-DN-ENT" to P.O.T. 52+69.60 Line "PR-DN-ENT"



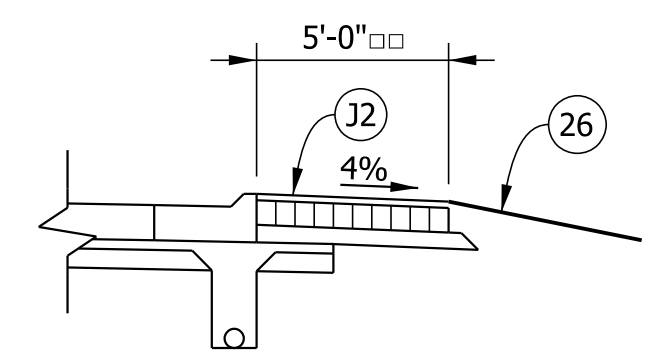
COMBINED CONCRETE CURB AND GUTTER, TYPE B MODIFIED
 NOT TO SCALE



NORTH APPROACH w/SHOULDER & RAISED MEDIAN
 P.O.T. 52+69.64 Line "PR-DN" to P.O.C. 54+45.33 Line "PR-DN-EXT"
 P.O.T. 52+69.60 Line "PR-DN-ENT" to P.O.C. 54+44.99 Line "PR-DN-ENT"



NORTH APPROACH w/CURB & RAISED MEDIAN
 P.O.C. 54+45.33 Line "PR-DN-EXT" to P.O.T. 55+79.17 Line "PR-DN-EXT"
 P.O.T. 52+69.60 Line "PR-DN-ENT" to P.O.C. 55+81.16 Line "PR-DN-ENT"



OVERSIZE VEHICLE APRON
 54+63.2 Line "PR-DN-ENT" to 55+74.9 Line "PR-DN-ENT"
 □ Varies from 5' at 54+80.9 "PR-DN-ENT" to 9.9' at 55+14.7 "PR-DN-ENT" to 5' at 55+56.3 "PR-DN-ENT"

LEGEND

- (A) PCCP, 11 in. w/ Transverse D-1 Joints @ 18 ft. spacing, on Subbase for PCCP, on Subgrade Treatment Type IC
- (A1) Truck Apron PCCP, 7 in. w/ Transverse D-1 Joints @ 18 ft. spacing, on Subbase for PCCP, on Subgrade Treatment Type IC
- (A2) PCCP, 7 in., on Subbase for PCCP, on Subgrade Treatment Type IC
- (J1) PCCP, 11 in. Shoulder, on Subbase for PCCP, on Subgrade Treatment Type IC
- (J2) Geocell Vegetated Pavement System: 2 in. Infill Topsoil-Aggregate Mix, on 8 in. Geocell Confining System, on Geotextile Type 2A, on 5 in. of Compacted Aggregate, No. 53
- (K) HMA for Approaches, Type B, consisting of: 165 lb/syd HMA Surface, Type B, on 495 lb/syd HMA Intermediate, Type B, on 4 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
- (O) 11 in. of Compacted Aggregate, No. 53
- (R) HMA for Approaches, Type B, consisting of: 165 lb/syd HMA Surface, Type B, on 1 1/2" Asphalt Surface Milling
- (U) Pipe, 6 in., Type 4
- (17) Concrete Curb and Gutter, Type B
- (18) Concrete Curb and Gutter, Type B, Modified
- (19) Concrete Curb and Gutter, Modified (Roundabout)
- (26) Mulched Seeding, Type R

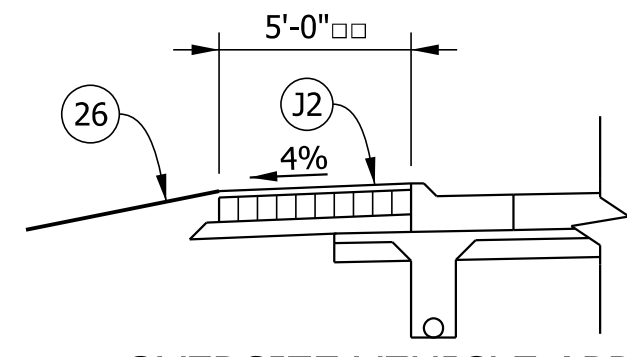
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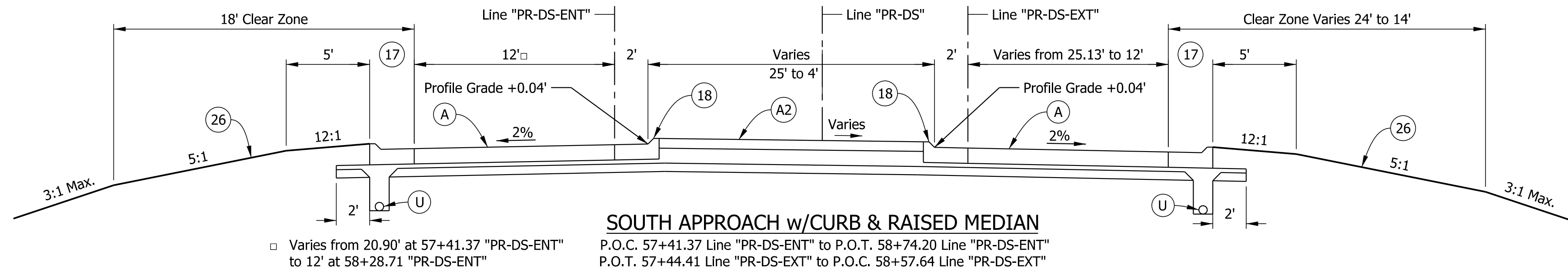
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JJV	DRAWN: ZJM & JJV	
CHECKED: REW	CHECKED: REW	

INDIANA
 DEPARTMENT OF TRANSPORTATION
 TYPICAL SECTIONS
 LINE "PR-DN" & "PR-DS"

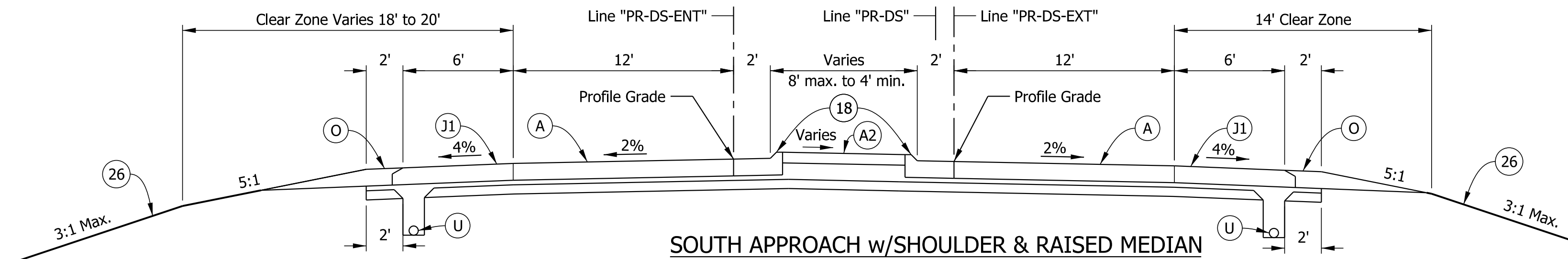
SCALE	BRIDGE FILE
1" = 5'	
	DESIGNATION
	1702989
SURVEY BOOK	SHEETS
	3 of 59
CONTRACT	PROJECT
R-43059	1702989



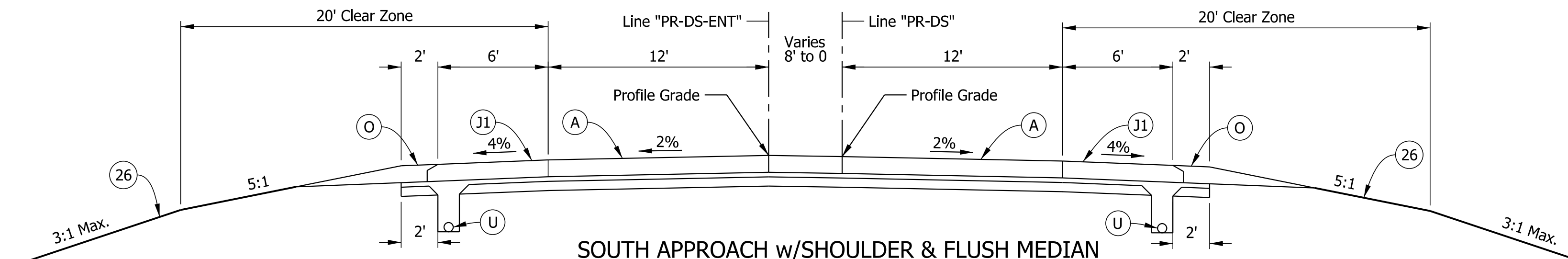
OVERSIZE VEHICLE APRON
 57+52.6 Line "PR-DS-ENT" to 58+57.7 Line "PR-DS-ENT"
 □ Varies from 5' at 57+72.3 "PR-DS-ENT" to 8.9' at 58+08.3 "PR-DS-ENT" to 5' at 58+38.1 "PR-DS-ENT"



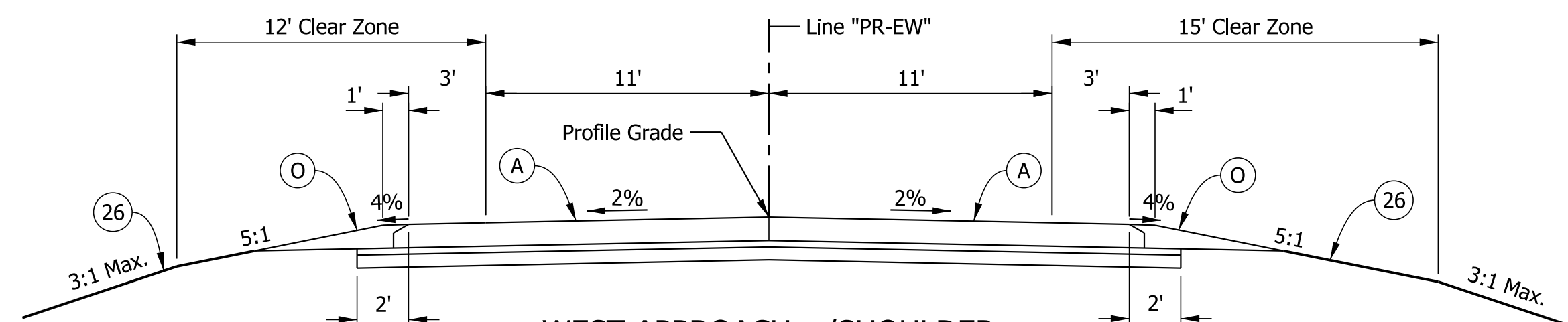
SOUTH APPROACH w/CURB & RAISED MEDIAN
 P.O.C. 57+41.37 Line "PR-DS-ENT" to P.O.T. 58+74.20 Line "PR-DS-ENT"
 P.O.T. 57+44.41 Line "PR-DS-EXT" to P.O.C. 58+57.64 Line "PR-DS-EXT"



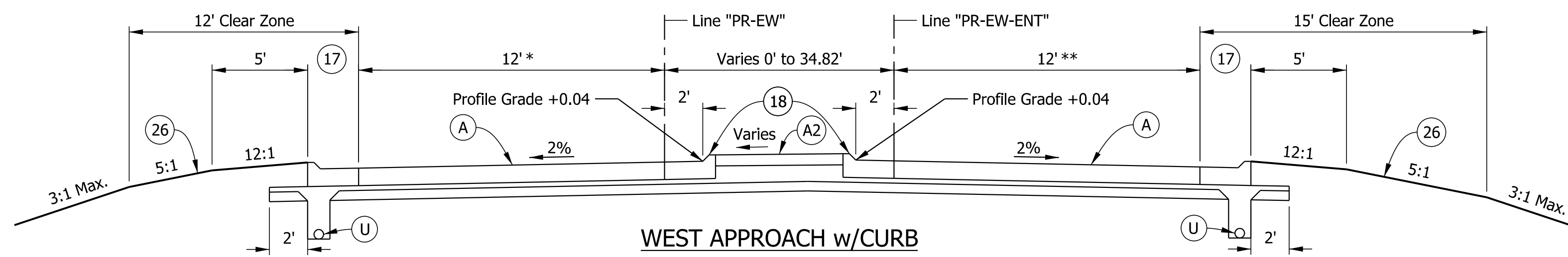
SOUTH APPROACH w/SHOULDER & RAISED MEDIAN
 P.O.T. 58+74.20 Line "PR-DS-ENT" to P.O.T. 60+52.93 Line "PR-DS-ENT"
 P.O.C. 58+57.64 Line "PR-DS-EXT" to P.O.T. 60+52.92 Line "PR-DS"



SOUTH APPROACH w/SHOULDER & FLUSH MEDIAN
 P.O.T. 60+52.93 Line "PR-DS-ENT" to P.T. 62+50.00 Line "PR-DS-ENT"
 P.O.T. 60+52.92 Line "PR-DS" to P.O.T. 62+50.00 Line "PR-DS"



WEST APPROACH w/SHOULDER
 P.C. 51+50 Line "PR-EW" to P.O.C. 52+76.18 Line "PR-EW"



WEST APPROACH w/CURB
 P.O.C. 52+76.18 Line "PR-EW" to P.O.T. 54+06.89 "PR-EW"
 P.C. 53+14.21 "PR-EW-ENT" TO P.O.T. 54+10.33 "PR-EW-ENT"

* Varies from 12' at 52+76.18 "PR-EW" to 25.03' at 54+06.89 "PR-EW"

** Varies from 12' at 53+01.51 "PR-EW" to 17.50' at 54+10.33 "PR-EW-ENT"

LEGEND

- (A) PCCP, 11 in. w/ Transverse D-1 Joints @ 18 ft. spacing, on Subbase for PCCP, on Subgrade Treatment Type IC
- (A1) Truck Apron PCCP, 7 in. w/ Transverse D-1 Joints @ 18 ft. spacing, on Subbase for PCCP, on Subgrade Treatment Type IC
- (A2) PCCP, 7 in., on Subbase for PCCP, on Subgrade Treatment Type IC
- (J1) PCCP, 11 in. Shoulder, on Subbase for PCCP, on Subgrade Treatment Type IC
- (J2) Geocell Vegetated Pavement System: 2 in. Infill Topsoil-Aggregate Mix, on 8 in. Geocell Confining System, on Geotextile Type 2A, on 5 in. of Compacted Aggregate, No. 53
- (K) HMA for Approaches, Type B, consisting of: 165 lb/syd HMA Surface, Type B, on 495 lb/syd HMA Intermediate, Type B, on 4 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
- (O) 11 in. of Compacted Aggregate, No. 53
- (R) HMA for Approaches, Type B, consisting of: 165 lb/syd HMA Surface, Type B, on 1 1/2" Asphalt Surface Milling
- (U) Pipe, 6 in., Type 4
- (17) Concrete Curb and Gutter, Type B
- (18) Concrete Curb and Gutter, Type B, Modified
- (19) Concrete Curb and Gutter, Modified (Roundabout)
- (26) Mulched Seeding, Type R

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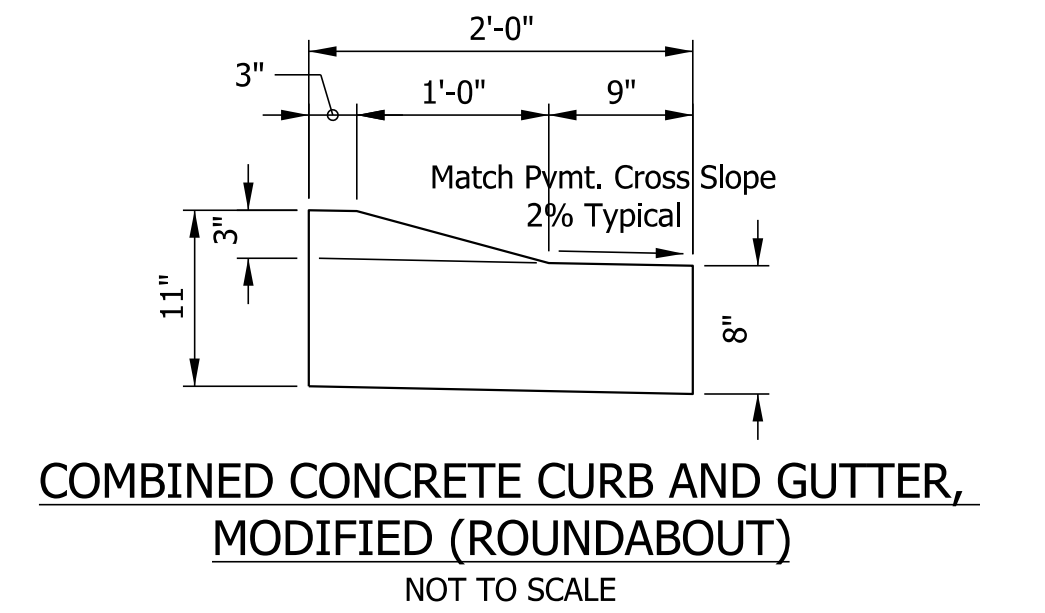
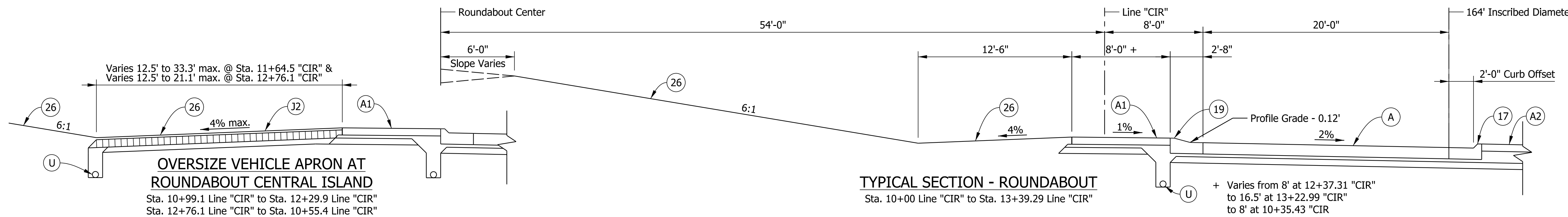
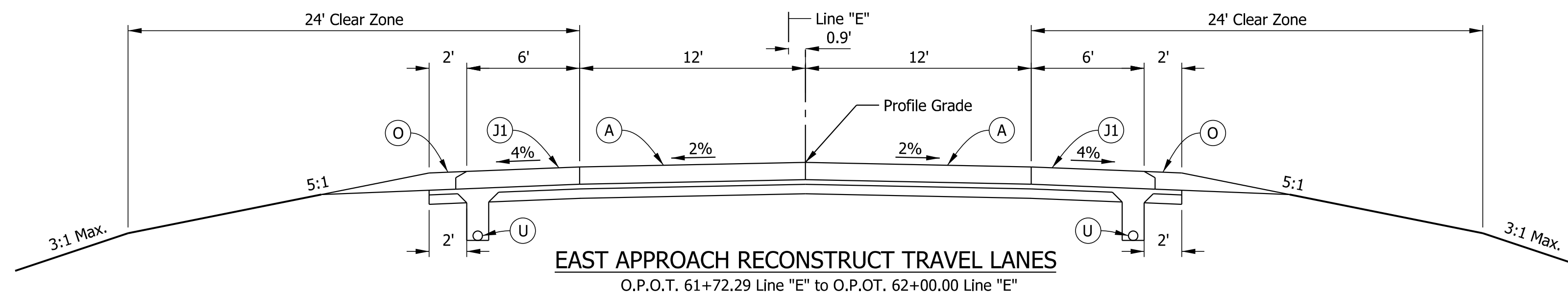
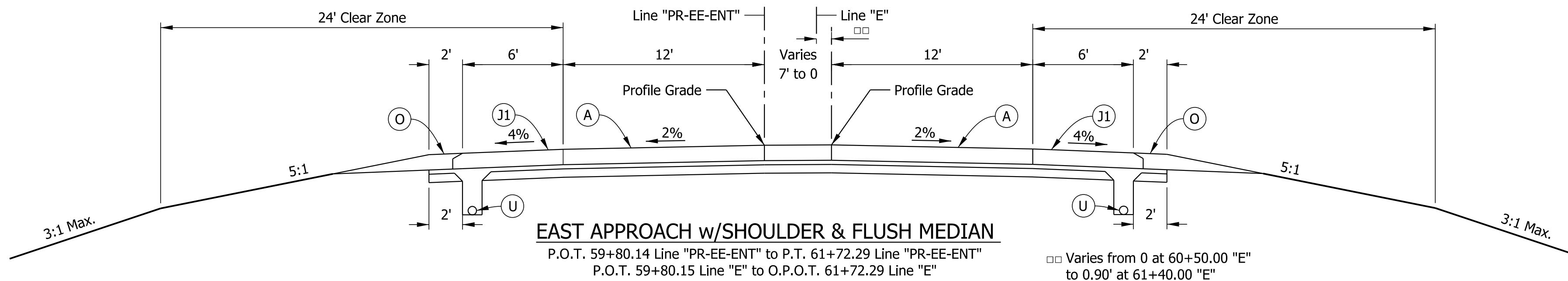
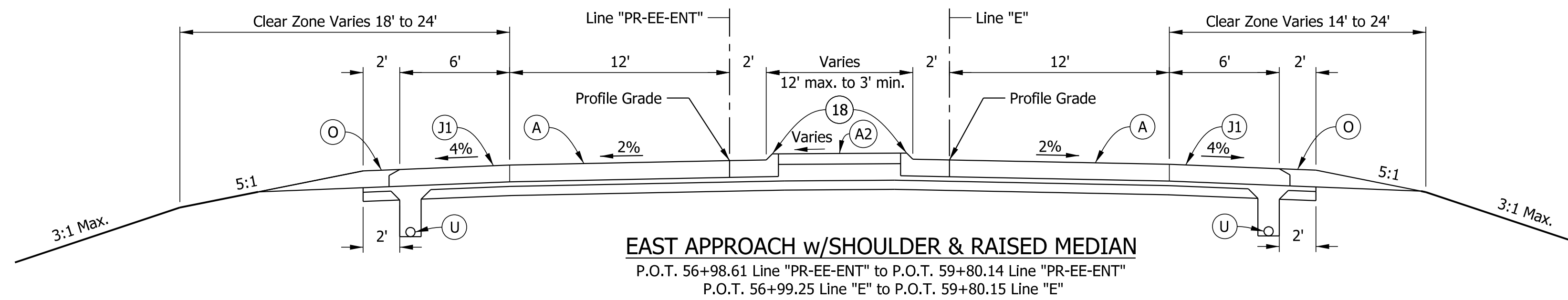
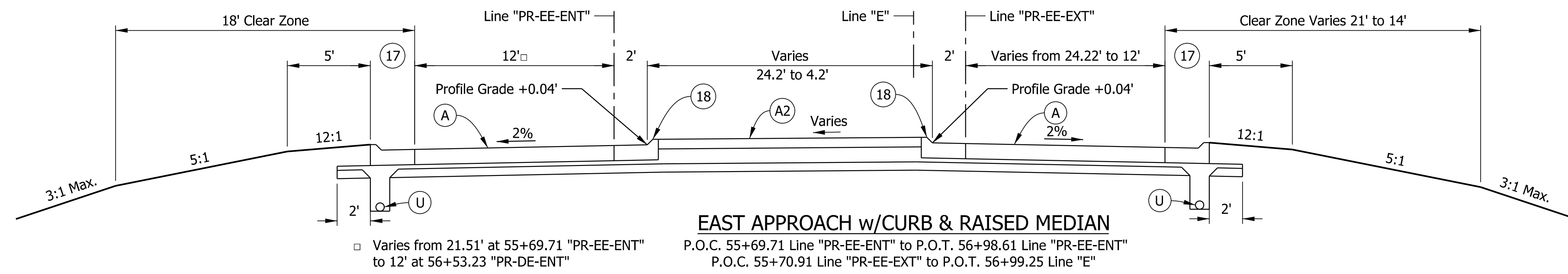


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JJV	DRAWN: JJV	
CHECKED: REW	CHECKED: REW	

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
LINE "PR-DS" & "PR-EW"

SCALE	BRIDGE FILE
1" = 5'	
	DESIGNATION
	1702989
SURVEY BOOK	SHEETS
	4 of 59
CONTRACT	PROJECT
R-43059	1702989



LEGEND

- (A) PCCP, 11 in. w/ Transverse D-1 Joints @ 18 ft. spacing, on Subbase for PCCP, on Subgrade Treatment Type IC
- (A1) Truck Apron PCCP, 7 in. w/ Transverse D-1 Joints @ 18 ft. spacing, on Subbase for PCCP, on Subgrade Treatment Type IC
- (A2) PCCP, 7 in., on Subbase for PCCP, on Subgrade Treatment Type IC
- (J1) PCCP, 11 in. Shoulder, on Subbase for PCCP, on Subgrade Treatment Type IC
- (J2) Geocell Vegetated Pavement System: 2 in. Infill Topsoil-Aggregate Mix, on 8 in. Geocell Confining System, on Geotextile Type 2A, on 5 in. of Compacted Aggregate, No. 53
- (K) HMA for Approaches, Type B, consisting of: 165 lb/syd HMA Surface, Type B, on 495 lb/syd HMA Intermediate, Type B, on 4 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
- (O) 11 in. of Compacted Aggregate, No. 53
- (R) HMA for Approaches, Type B, consisting of: 165 lb/syd HMA Surface, Type B, on 1 1/2" Asphalt Surface Milling
- (U) Pipe, 6 in., Type 4
- (17) Concrete Curb and Gutter, Type B
- (18) Concrete Curb and Gutter, Type B, Modified
- (19) Concrete Curb and Gutter, Modified (Roundabout)
- (26) Mulched Seeding, Type R

Plc2/1/2023 1:49:25 PM By: muramw Per: Transportation.tbl Model: Typical Section 03

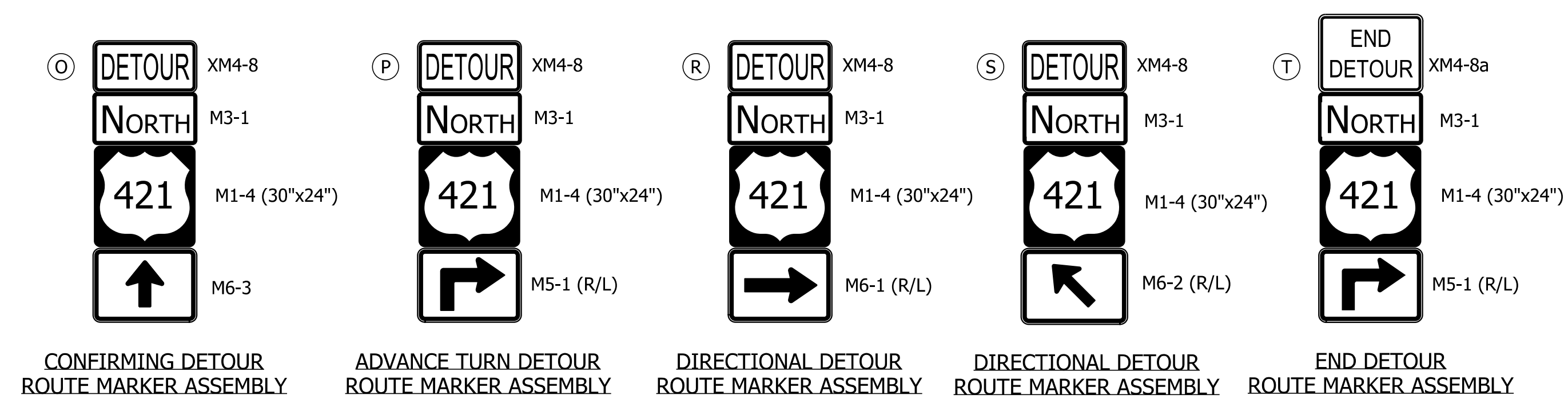
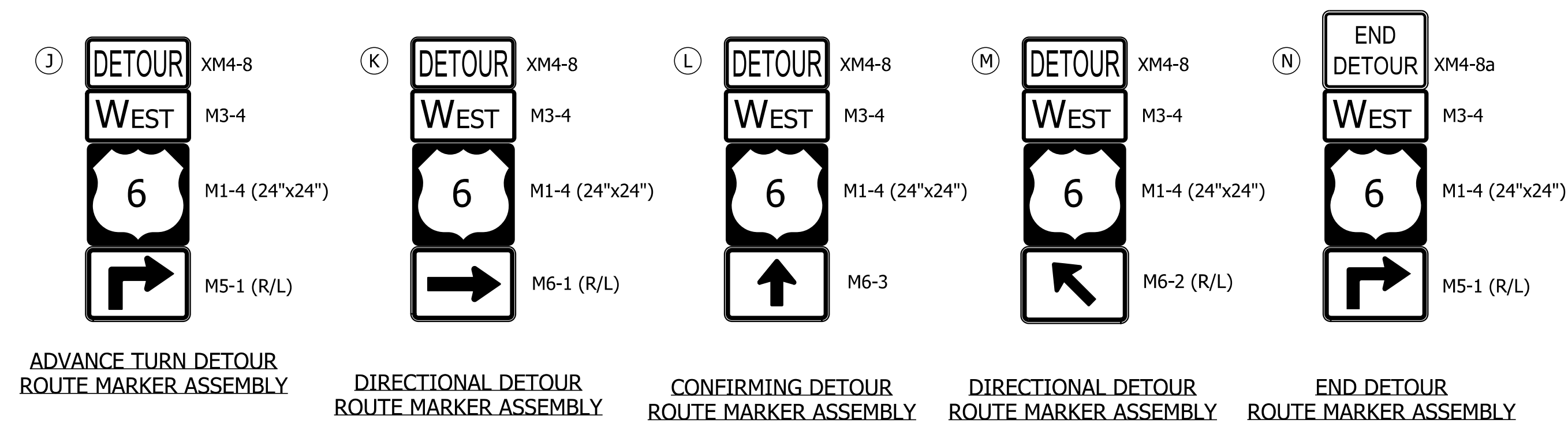
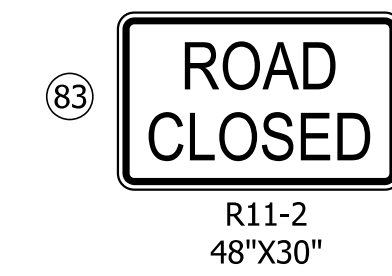
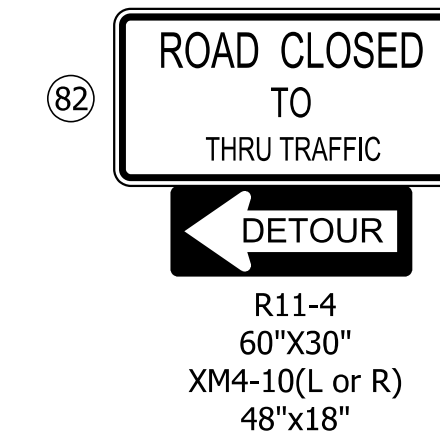
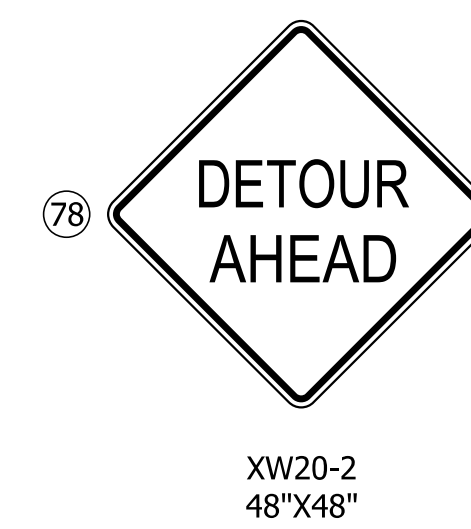
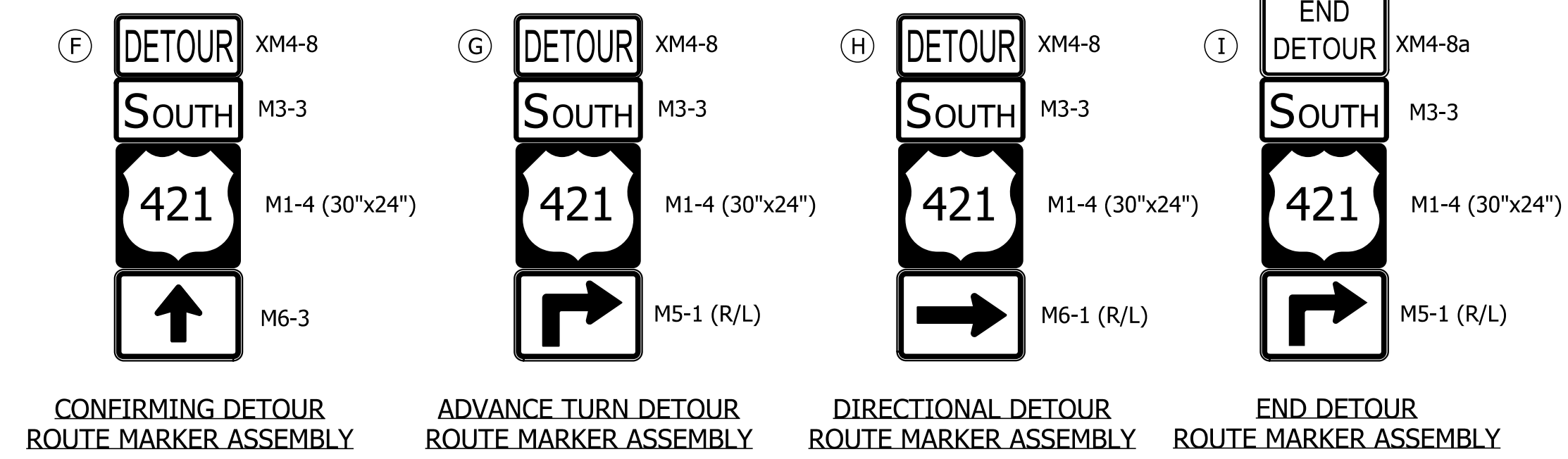
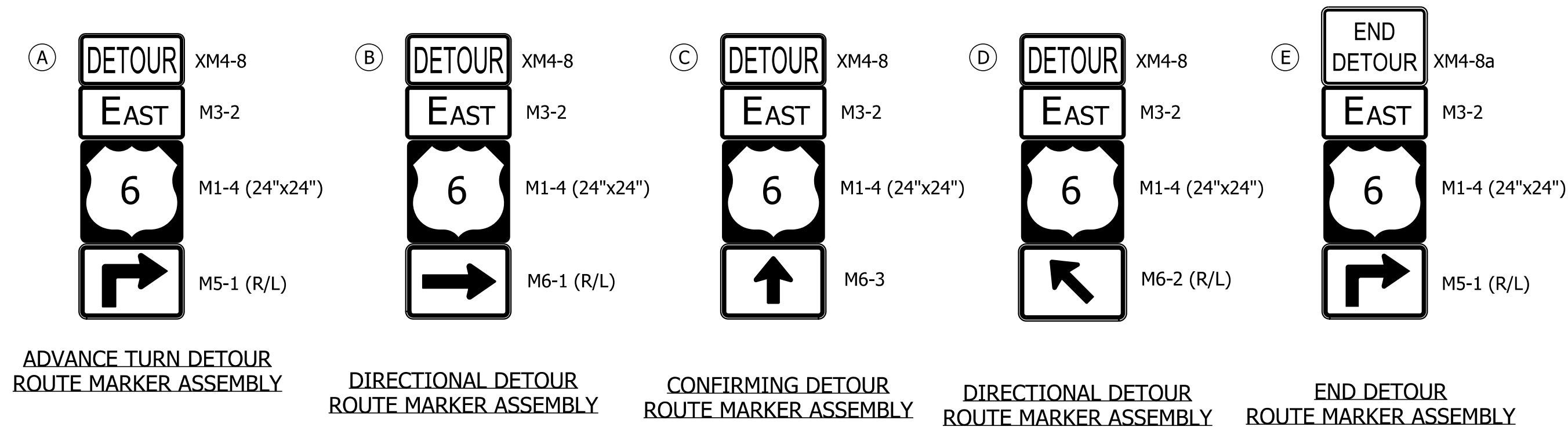


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JJV	DRAWN: JJV	
CHECKED: REW	CHECKED: REW	

INDIANA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS LINES "E" & "CIR"

SCALE	BRIDGE FILE
1" = 5'	
	DESIGNATION
	1702989
SURVEY BOOK	SHEETS
	5 of 59
CONTRACT	PROJECT
R-43059	1702989



Plc1:1/9/2022 2:35:37 PM By: murrainw Per: Transportation.tbl Model: Temporary Traffic Control - Sheet 1

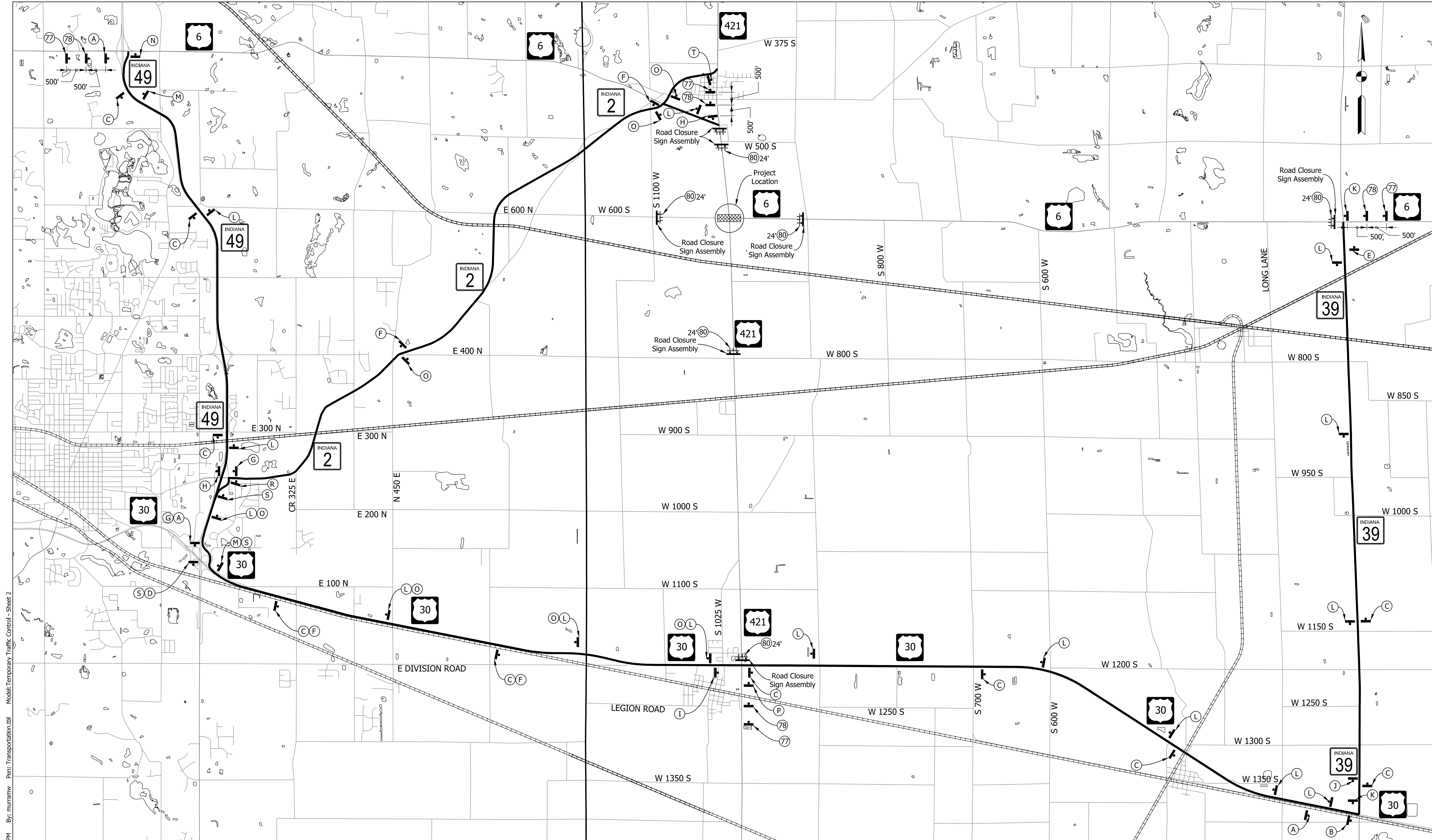


RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JJV _____	DRAWN: MWM _____	
CHECKED: REW _____	CHECKED: REW _____	

INDIANA
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC
CONTROL PLAN

SCALE	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 6 of 59
CONTRACT R-43059	PROJECT 1702989



P1:1/19/2022 2:35:37 PM By: muramw Per: Transportation.tbl Model: Temporary Traffic Control - Sheet 2

- Legend**
- Project Location
 - Construction Sign
 - Road Closure Sign Assembly
 - 80 Type III-B Barricades



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JJV	DRAWN: MWM	
CHECKED: REW	CHECKED: REW	

INDIANA
DEPARTMENT OF TRANSPORTATION

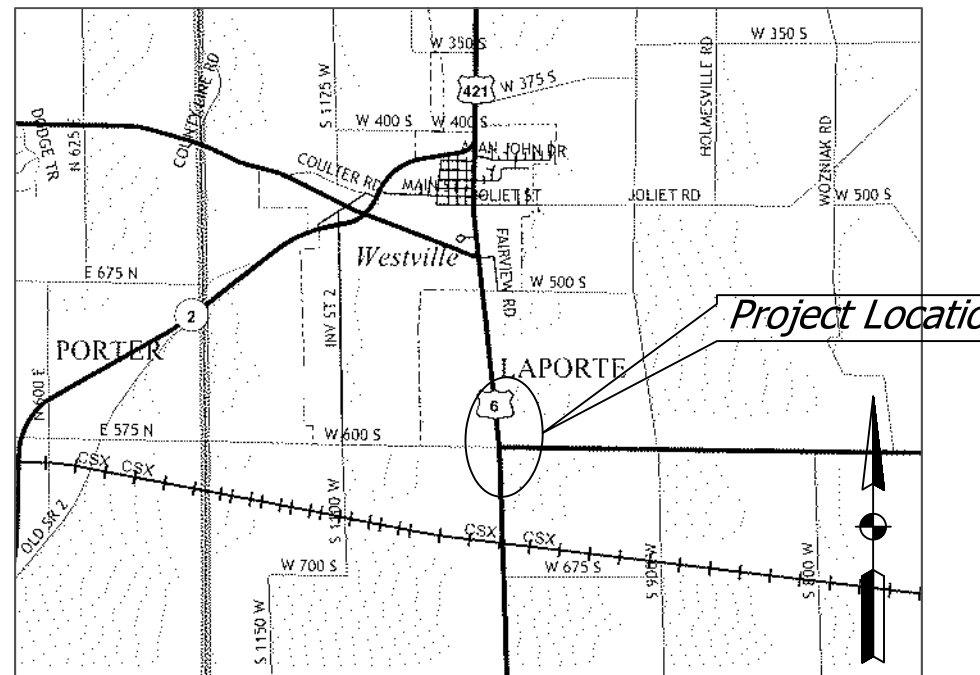
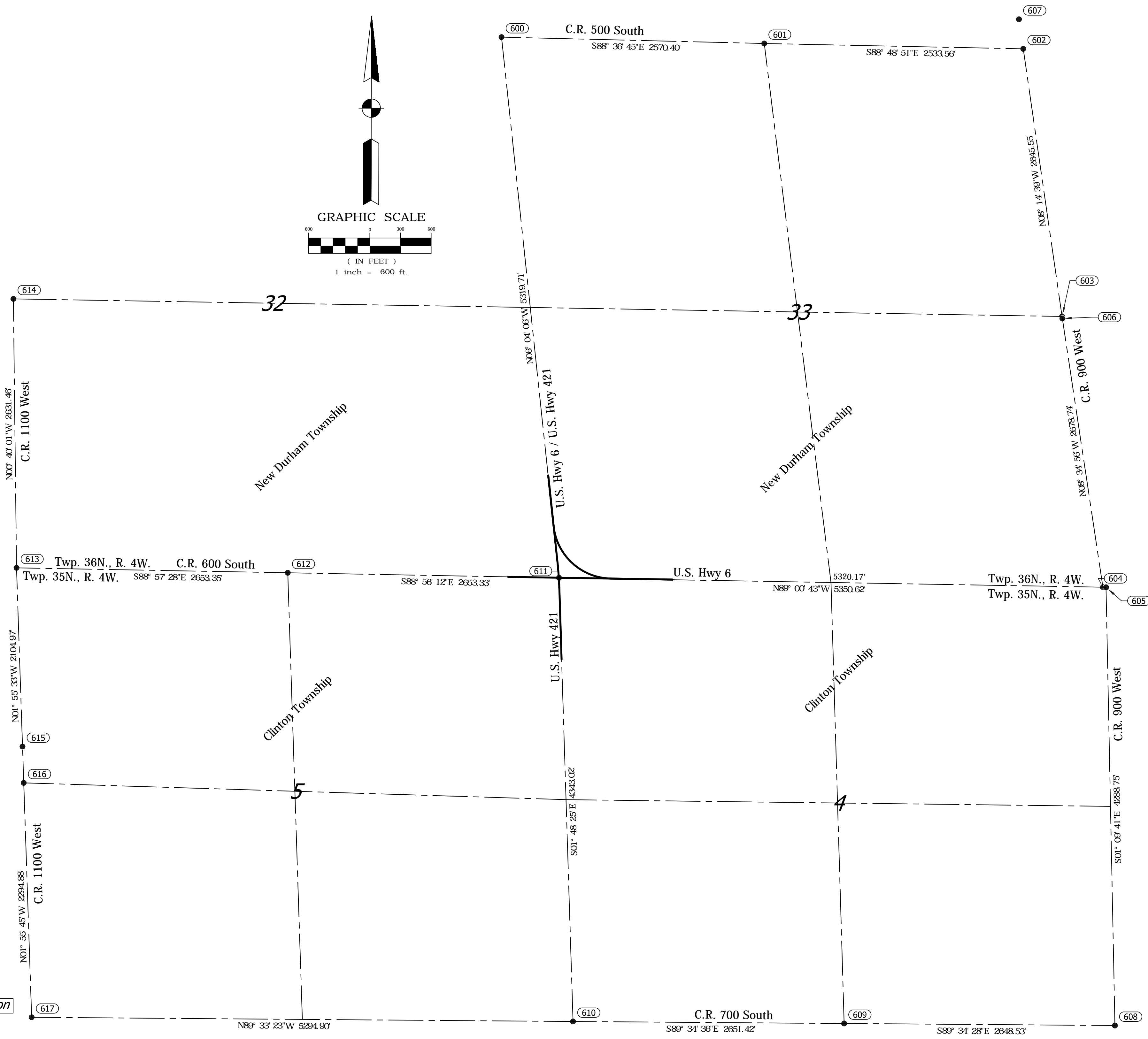
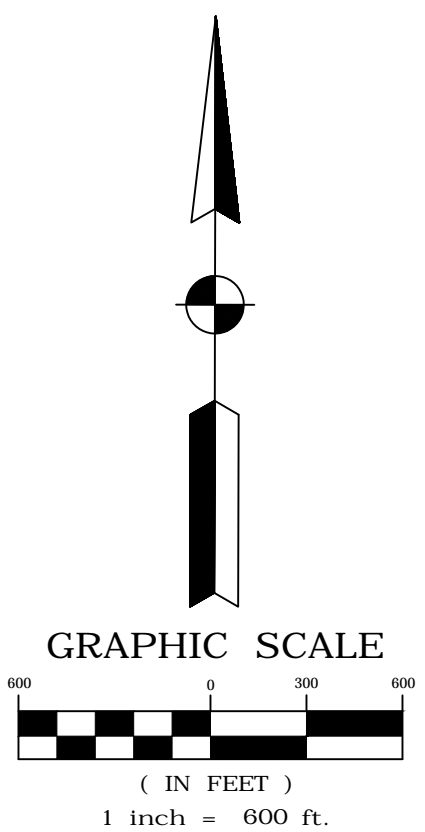
TEMPORARY TRAFFIC CONTROL PLAN

SCALE 1" = 3000'	BRIDGE FILE
SURVEY BOOK	DESIGNATION 1702989
CONTRACT R-43059	SHEETS 7 of 59
	PROJECT 1702989

**SURVEYOR REPORT
(ROUTE SURVEY)**

The subject US Route 6/US Route 421 intersection improvement project is in the Town of Westville and is located in Sections 4 & 5, Township 35 North, Range 4 West and in Sections 32 & 33, Township 36 North, Range 4 West, in Clinton & New Durham Townships, LaPorte County, Indiana.

- The purpose of this Location Control Route Survey is to collect pertinent survey data for the design of a round-a-bout project for the US-6/US-421 intersection and to serve as the basis for describing additional right-of-way parcels needed to complete this project. This is not a boundary retracement survey. All apparent property lines and corners found and shown on this plat are based on field observations and limited deed information. The property lines and corners are included on this plat for informational purposes only.
- In accordance with Title 865, Article 1, Chapter 12, sections 20 through 25 of the Indiana Administrative Code ("Rule 12"), the following observations and opinions are submitted regarding the various uncertainties in the locations of the lines and corners established this route survey as a result of uncertainties in reference monuments, lines of occupation, inconsistencies in right-of-way grants, and random errors in measurement.
- Alignment Data:
Lines C, D and E from INDOT Project No ST-212-4(F) were reestablished by using existing monumentation, physical evidence of R/W (fences / concrete markers), and original plan geometry. No centerline monuments were found for said "Lines". Therefore, plan geometry from the 1999 Location Control Route Survey (LCRS) by Cole Associates Inc., (tangents, deltas & curve data) was held to reestablish said "Lines". The section corners depicted on said 1999 LCRS plat were recovered and located with this current survey and used to rotate/translate the plan geometry from said 1999 LCRS. The largest horizontal difference noted between section corner monuments found on said 1999 LCRS and the current survey was 0.05' and the largest angular difference was 0°00'14".
- Plats, notes and witnesses utilized this survey:
 - Road plans:
 - Right-of-Way Plans Intersection Improvement U.S. 6 at RP 036+051, Project No. STP-212-4(F), Code 3947, by H. Stewart Kline & Assoc., dated December 12, 2000.
 - Section Corner Witnesses:
 - Section corner witnesses obtained online from the LaPorte County Surveyors Office web site.
 - Based on the LaPorte County Surveyors naming convention, the following section corners were searched for in the field: (Twp 35 N., R. 4W.: 0471, 0472, 0473, 0474, 0475, 0476, 0480, 0482, 0483, 0484); (Twp 36 N., R. 4W.: 0851, 0852, 0853, 0854, 0855). All corners found were in agreement with the witnesses except the following which were not found, or the monument was different: (0472, 0484, 0853). Distances appear to be in substantial agreement with the LCRS plat listed in Item '4A' above and the survey listed in '4C' below.
 - Surveys of Record:
 - "Plat of Survey for Northern Indiana Public Service Company", by Metro Consulting Associates, dated January 25, 2018 and recorded March 12, 2018 as Document #2018R-02583-2.
 - Location Control Route Survey Plat, by Cole Associates Inc. a DLZ Company, dated June 7, 1999 and recorded June 10, 1999 as Document #99-13067.
- Monuments and Markers
 - Section corner monuments found and used, as shown on this survey plat, appear to be in substantial agreement with the section corner monuments shown on the LaPorte County Section Corner witness sheets.
 - The field measurements for this survey were made in accordance with the specifications for an "Urban Survey" as described in 865 IAC 1-12-7 (acceptable "relative positional accuracy" (RPA) 0.07 feet + 50 parts per million) and furthermore do not exceed the maximum allowable RPA per 865 IAC 1-12-22(a) (0.5).
- In accordance with 865 IAC 1-12-23, the following opinions are submitted regarding the various uncertainties in the locations of the lines and corners found or established on this survey:
 - The uncertainties in the location of the lines and corners found or established on this survey, due to the availability and condition of reference monuments, (section corners / property corners) is estimated to be less than 5 feet. The cause of these uncertainties could relate to "lost" or "obliterated" section corners.
 - The uncertainties in the location of the lines and corners found or established on this survey due to occupation or possession lines is estimated to be less than 10 feet. Cause of uncertainty in occupation could relate to property owners not having a correct understanding of their property lines prior to the placement of improvements (fences, plantings, driveways, etc.) or they may have intentionally kept their improvements away from their property lines. Agreements (either written or unwritten) between adjoining property owners may also be potential cause of discrepancies between apparent occupation and ownership lines.
 - The points established (reference points #1 - #6) are considered original monuments for this survey and therefore have no error as related to this survey.
- The monuments found and established for this survey were located by a combination of conventional traverse/radial measurement techniques and the use of GNSS equipment (RTK method). The correction source for RTK collection is a base station operated by GAI, Geoid12A (CONUS) geoid model was used. The distances shown on this plat are InGCS "grid" distances, however the grid to ground distances are negligible in the Indiana Geospatial Coordinate System.
- The BASIS OF BEARINGS: bearings, distances and coordinates shown on this plat are based on the Indiana Geospatial Coordinate System (InGCS) "LaPorte" zone per NAD83 (2011) epoch 2010.00, unless noted otherwise. The reported distances and coordinates are U.S. Survey Feet and decimal parts thereof. The InGCS "LaPorte" zone has the following published parameters: Geometric Datum - NAD83(2011) epoch 2010.00, Projection Type - Transverse Mercator, Central Meridian - 86°45'00" West longitude, Central Meridian Scale factor 1.000027, Latitude of Grid Origin 40°54'00" North latitude, False Northing - 36,000,000m (118,110.00 US Ft), False Easting - 240,000,000m (787,400.00 US Ft).
- The number of significant figures shown for the coordinates and station / offsets are for mathematical calculations only and are not intended to imply the precision of the original measurements.
- This route survey is not intended in any way to be a property retracement survey and the property lines shown are for informational purposes only. The right-of-way shown (Existing R/W) is based on the deeds for parcels obtained by the State of Indiana. The right-of-way shown (App. R/W) is based on the "assumed" County right-of-way width and no documents transferring ownership to the State or County were found.



This plat was prepared by: David G. Croft, PS
"I affirm under the penalties for perjury that I have taken reasonable care to redact each social security number in this document, unless required by law."

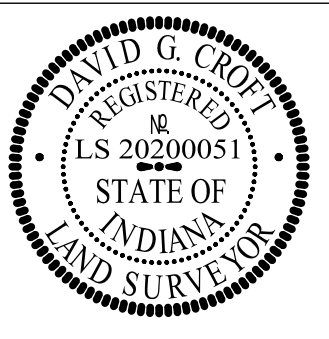
Printed Name: David G. Croft

SURVEY STARTED		
10/29/2019		
SURVEY COMPLETED		
01/08/2020		
ROUTE PLAT SHEETS		
1	OF	3



9998 Crosspoint Blvd.
Indianapolis, IN 46256
(317) 436-4823
WWW.GAICONSULTANTS.COM
Project No. D190007.00

SURVEYOR STATEMENT
THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF TITLE 865 I.A.C. 1-12-20 THROUGH 1-12-25 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.

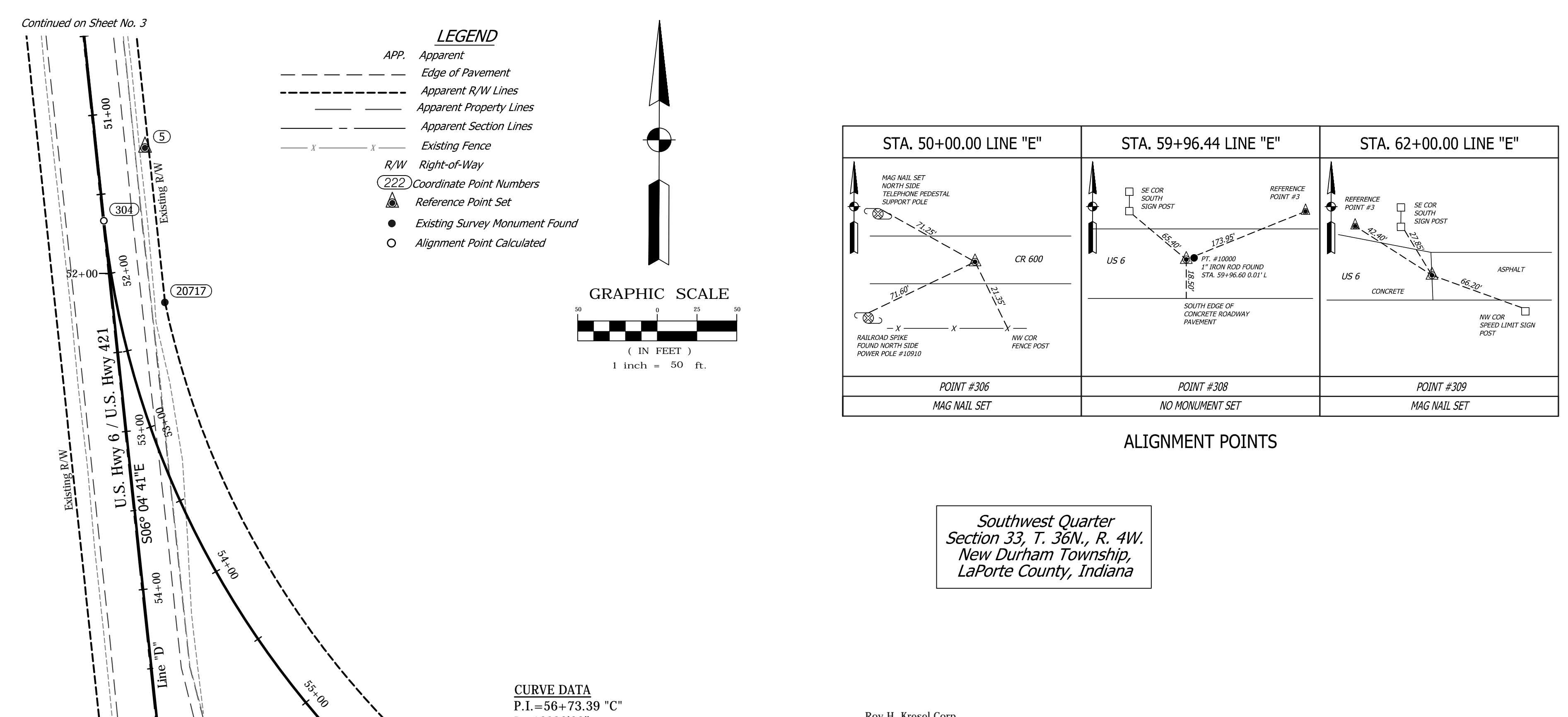


RECOMMENDED FOR APPROVAL: *David G. Croft* March 12, 2020 REGISTERED LAND SURVEYOR DATE
DESIGNED: N/A DRAWN: DGC
CHECKED: N/A CHECKED: JDH

**U.S.-6 & U.S.-421
LaPORTE COUNTY, INDIANA**
LOCATION CONTROL ROUTE SURVEY

SCALE	BRIDGE FILE
as noted	N/A
ROUTE	PROJECT NO.
US-6/US-421	1702989
SURVEY BOOK	SHEETS
N/A	8 of 59
CONTRACT	COUNTY
N/A	LaPORTE

Point	Station	Offset	Baseline	INGCS "Hamilton" Zone		Latitude	Longitude	Description	Point Condition	Relation to Ground	Point Origin
				Northing	Easting						
Reference Points											
1	55+82.15	39.889' Rl.	D'	343564.868	747881.485	43°31'07.22400"N	86°53'39.53161"W	5/8" REBAR SET W/GAI-TRAV. CAP	NEW	FLUSH	GAI
2	N/A	N/A	N/A	343471.388	747286.284	43°31'06.29208"N	86°53'46.02898"W	5/8" REBAR SET W/GAI-TRAV. CAP	NEW	FLUSH	GAI
3	61+68.14	27.953' Ll.	E'	343494.644	748609.642	43°31'06.54214"N	86°53'29.95844"W	5/8" REBAR SET W/GAI-TRAV. CAP	NEW	FLUSH	GAI
4	63+74.06	24.948' Rl.	D'	342776.737	747927.341	43°30'59.43852"N	86°53'38.91152"W	5/8" REBAR SET W/GAI-TRAV. CAP	NEW	FLUSH	GAI
5	51+23.95	30.580' Ll.	D'	344027.596	747903.185	43°31'11.79585"N	86°53'39.25650"W	5/8" REBAR SET W/GAI-TRAV. CAP	NEW	FLUSH	GAI
6	N/A	N/A	N/A	344507.932	747943.933	43°31'16.54028"N	86°53'40.04588"W	5/8" REBAR SET W/GAI-TRAV. CAP	NEW	FLUSH	GAI
Section 8, 1/4 Corners Found											
600	N/A	N/A	N/A	348766.918	747367.776	43°31'58.68844"N	86°53'46.40027"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
601	N/A	N/A	N/A	348704.678	749937.421	43°31'58.03507"N	86°53'12.61305"W	IRON AXLE ROD FOUND	GOOD	0.50' BELOW	LCSD
602	N/A	N/A	N/A	348652.241	752470.709	43°31'57.55568"N	86°52'39.30010"W	MONUMENT FOUND (HARRISON)	GOOD	0.50' BELOW	LCSD
603	N/A	N/A	N/A	348624.027	752849.796	43°31'51.69477"N	86°52'34.27005"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
604	N/A	N/A	N/A	343385.285	753249.536	43°31'05.52233"N	86°52'28.96490"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
605	N/A	N/A	N/A	343384.667	753279.981	43°31'05.52668"N	86°52'28.56439"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
606	N/A	N/A	N/A	346014.241	752852.722	43°31'31.49922"N	86°52'34.21105"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
607	N/A	N/A	N/A	348841.302	752428.499	43°32'00.41072"N	86°52'39.86514"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
608	N/A	N/A	N/A	339096.888	753366.909	43°30'23.16698"N	86°52'27.34607"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
609	N/A	N/A	N/A	339116.561	750718.449	43°30'23.32219"N	86°53'02.14663"W	MONUMENT FOUND (HARRISON)	GOOD	0.65' BELOW	LCSD
610	N/A	N/A	N/A	339136.154	748067.102	43°30'23.47389"N	86°53'36.99508"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
611	N/A	N/A	N/A	343477.015	747930.153	43°31'06.39673"N	86°53'38.88981"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
612	N/A	N/A	N/A	343526.259	745277.282	43°31'06.78825"N	86°54'13.76320"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
613	N/A	N/A	N/A	343574.526	742824.375	43°31'07.22696"N	86°54'48.63682"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
614	N/A	N/A	N/A	346205.803	742593.749	43°31'33.22180"N	86°54'49.10501"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
615	N/A	N/A	N/A	341826.079	742883.049	43°30'49.95445"N	86°54'47.82189"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
616	N/A	N/A	N/A	341470.74	742895.112	43°30'46.44410"N	86°54'47.65491"W	1.5" IRON ROD FOUND	GOOD	0.35' BELOW	LCSD
617	N/A	N/A	N/A	339177.159	742772.364	43°30'23.78618"N	86°54'46.58292"W	MONUMENT FOUND (HARRISON)	GOOD	0.80' BELOW	LCSD
Survey Monuments Found											
1038	52+92.44	33.42' Rl.	E	343447.8820	747733.0350	N/A	N/A	CONCRETE R/W MARKER	GOOD	ABOVE	INDOT
1039	52+92.36	17.58' Rl.	E	343463.3190	747733.2150	N/A	N/A	CONCRETE R/W MARKER	LEANING	ABOVE	INDOT
1113	53+84.29	33.29' Rl.	E	343446.4770	747824.8720	N/A	N/A	CONCRETE R/W MARKER	LEANING	ABOVE	INDOT
1235	62+82.77	43.08' Rl.	D	342867.4120	742867.4120	N/A	N/A	CONCRETE R/W MARKER	GOOD	ABOVE	INDOT
1236	62+83.08	30.65' Rl.	D	342867.4980	747918.6800	N/A	N/A	CONCRETE R/W MARKER	GOOD	ABOVE	INDOT
20712	52+25.10	30.00' Ll.	C	343930.4610	747915.6790	N/A	N/A	CONCRETE R/W MARKER	POOR	ABOVE	INDOT
Alignment Points											
300	63+00.00	0.000'	D'	342851.5465	747949.8460	N/A	N/A	MAG NAIL SET	NEW	FLUSH	GAI
301	P.T. 57+69.06	0.000'	D'	343382.2259	747933.1373	N/A	N/A	MAG NAIL SET	NEW	FLUSH	GAI
302	P.C. 56+62.24	1.994' Ll.	D'	343489.0864	747929.7727	N/A	N/A	NO MONUMENT SET	NEW	FLUSH	GAI
303	P.C. 55+55.33	0.000'	D'	343595.3989	747918.4525	N/A	N/A	MAG NAIL SET	NEW	FLUSH	GAI
304	P.C. 51+66.77	0.000'	C'	343681.7702	747877.3117	N/A	N/A	MAG NAIL SET	NEW	FLUSH	GAI
305	47+00.00	0	D'	344445.9208	747827.8888	N/A	N/A	MAG NAIL SET	NEW	FLUSH	GAI
306	50+00.00	0.000'	E'	343486.1703	747441.1941	N/A	N/A	MAG NAIL SET	NEW	FLUSH	GAI
307	P.I. 56+73.39	191.855' Rl.	C'	343478.0038	747930.9528	N/A	N/A	NO MONUMENT SET	NEW	FLUSH	GAI
308	POT / PT 59+96.44	0.000'	E' & C'	343469.5574	748437.4966	N/A	N/A	NO MONUMENT SET	NEW	FLUSH	GAI
309	62+00.00	0.000'	E'	343466.1636	748641.0259	N/A	N/A	MAG NAIL SET	NEW	FLUSH	GAI



LEGEND

- APP. Apparent
- Edge of Pavement
- - - Apparent R/W Lines
- - - Apparent Property Lines
- - - Apparent Section Lines
- - - Existing Fence
- R/W Right-of-Way
- ②②② Coordinate Point Set
- ③ Reference Point Set
- Existing Survey Monument Found
- Alignment Point Calculated

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.

STA. 50+00.00 LINE "E"	STA. 59+96.44 LINE "E"	STA. 62+00.00 LINE "E"
 POINT #306 MAG NAIL SET	 POINT #308 NO MONUMENT SET	 POINT #309 MAG NAIL SET

*Southwest Quarter
Section 33, T. 35N., R. 4W.
New Durham Township,
LaPorte County, Indiana*

Roy H. Kresel Corp.
Doc. #83-08309
Tax. ID #46-09-33-300-011.000-027
(Farm Field)

*Southeast Quarter
Section 32, T. 36N., R. 4W.
New Durham Township,
LaPorte County, Indiana*

Richard O. Krumbacher
Doc. #2008R-06410
Tax. ID #46-09-32-400-006.000-027
(Farm Field)

CURVE DATA
P.I.=56+62.24 "D"
D=2°00'00"
D=4°16'28" Rt.
R=2864.78'
L=213.73'
T=106.91'
E=1.99'

*Northeast Quarter
Section 5, T. 35N., R. 4W.
Clinton Township,
LaPorte County, Indiana*

NP Westville Industrial, LLC
Doc. #2019R-00794
Tax. ID #46-13-05-200-009.000-044
(Commercial Use)

*Northwest Quarter
Section 4, T. 35N., R. 4W.
Clinton Township,
LaPorte County, Indiana*

POINT #2	POINT #3	POINT #5

REFERENCE POINTS

This plat was prepared by: David G. Croft, PS

"I affirm under the penalties for perjury that I have taken reasonable care to redact each social security number in this document, unless required by law."

Printed Name: David G. Croft

SURVEY STARTED		
10/29/2019		
SURVEY COMPLETED		
01/08/2020		
ROUTE PLAT SHEETS		
2	OF	3

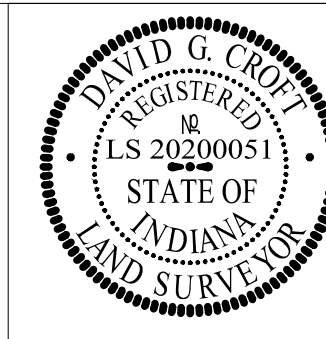


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Indianapolis, IN 46256
(317) 436-4823
WWW.GAICONULTANTS.COM

Project No. D190007.00

SURVEYOR STATEMENT

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RECOMMENDED FOR APPROVAL	<i>Des Cat</i> March 12, 2020 REGISTERED LAND SURVEYOR DATE
DESIGNED: N/A	DRAWN: DGC
CHECKED: N/A	CHECKED: JDH

U.S.-6 & U.S.-421
LaPORTE COUNTY, INDIANA

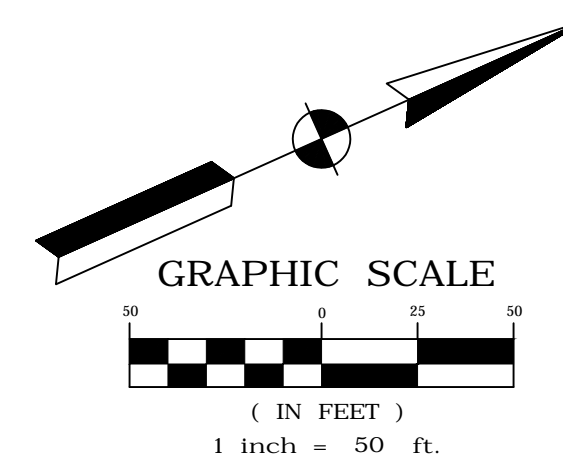
LOCATION CONTROL ROUTE SURVEY

SCALE	BRIDGE FILE
as noted	N/A
ROUTE	PROJECT NO.
US-6/US-421	1702989
SURVEY BOOK	SHEETS
N/A	9 of 59
CONTRACT	COUNTY
N/A	LaPORTE

<p>STA. 63+00.00 LINE "D"</p> <p>POINT #300 MAG NAIL SET</p>	<p>STA. 57+69.06 LINE "D"</p> <p>POINT #301 MAG NAIL SET</p>	<p>STA. 55+55.33 LINE "D"</p> <p>POINT #303 MAG NAIL SET</p>	<p>STA. 51+66.77 LINE "D"</p> <p>POINT #304 MAG NAIL SET</p>	<p>STA. 47+00.00 LINE "D"</p> <p>POINT #305 MAG NAIL SET</p>
--	--	--	--	--

ALIGNMENT POINTS

- LEGEND**
- APP. Apparent
 - Edge of Pavement
 - - - Apparent R/W Lines
 - - - Apparent Property Lines
 - - - Apparent Section Lines
 - - - Existing Fence
 - R/W Right-of-Way
 - (222) Coordinate Point Numbers
 - ▲ Reference Point Set
 - Existing Survey Monument Found
 - Alignment Point Calculated



Southwest Quarter
Section 32, T. 36N., R. 4W.
New Durham Township,
LaPorte County, Indiana

Richard O. Krumbacher
Doc. #2008R-06410
Tax. ID #46-09-32-400-006.000-027
(Farm Field)

Patricia A. & Aaron Patrick Kresel
Doc. #2004R-01721
Tax. ID #46-09-33-300-010.000-027
(Farm Field)

Roy H. Kresel Corp.
Doc. #83-08309
Tax. ID #46-09-33-300-011.000-027
(Farm Field)

Northeast Quarter
Section 5, T. 35N., R. 4W.
Clinton Township,
LaPorte County, Indiana

NP Westville Industrial, LLC
Doc. #2019R-00794
Tax. ID #46-13-05-200-009.000-044
(Commercial Use)

CURVE DATA
P.I. = 56+62.24 "D"
D = 2°00'00"
D = 4°16'28" Rt.
R = 2864.78'
L = 213.73'
T = 106.91'
E = 1.99'

CURVE DATA
P.I. = 56+73.39 "C"
D = 10°00'00"
D = 82°58'00" Lt.
R = 572.96'
L = 829.67'
T = 506.61'
E = 191.85'

Northwest Quarter
Section 4, T. 35N., R. 4W.
Clinton Township,
LaPorte County, Indiana

Robert W. & LaVonn L. Meyers
Doc. #98-06473
Tax. ID #46-13-04-100-005.000-044
(Farm Field)

<p>POINT #1</p>	<p>POINT #4</p>	<p>POINT #6</p>
-----------------	-----------------	-----------------

REFERENCE POINTS

This plat was prepared by: David G. Croft, PS

"I affirm under the penalties for perjury that I have taken reasonable care to redact each social security number in this document, unless required by law."

Printed Name: David G. Croft

SURVEY STARTED		
10/29/2019		
SURVEY COMPLETED		
01/08/2020		
ROUTE PLAT SHEETS		
3	OF	3



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Project No. D190007.00

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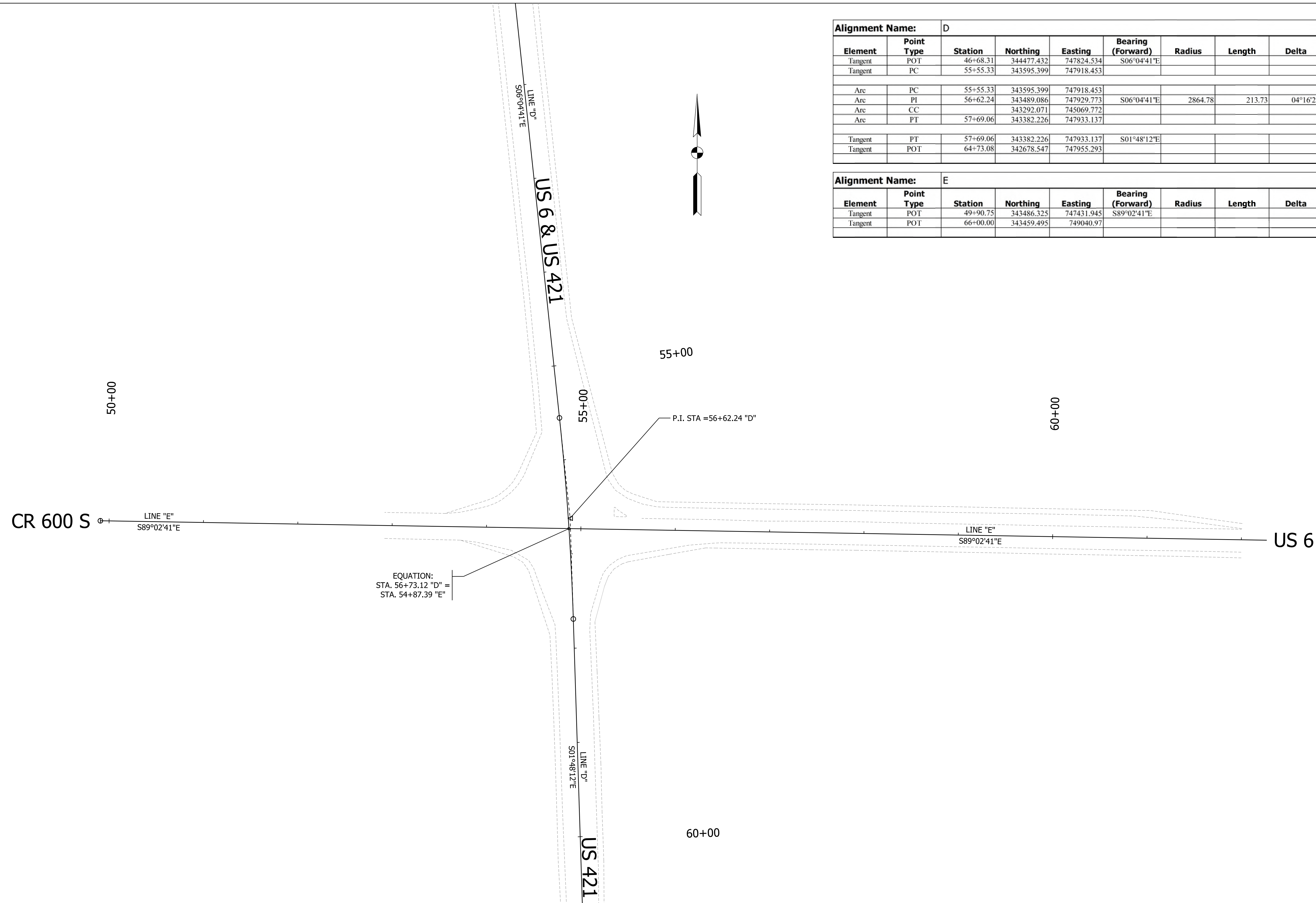


RECOMMENDED FOR APPROVAL	<i>David G. Croft</i>	March 12, 2020
REGISTERED LAND SURVEYOR		DATE
DESIGNED: N/A	DRAWN: DGC	
CHECKED: N/A	CHECKED: JDH	

U.S.-6 & U.S.-421
LaPORTE COUNTY, INDIANA

LOCATION CONTROL ROUTE SURVEY

SCALE	BRIDGE FILE
as noted	N/A
ROUTE	PROJECT NO.
US-6/US-421	1702989
SURVEY BOOK	SHEETS
N/A	10 of 59
CONTRACT	COUNTY
N/A	LaPORTE



Alignment Name:		D								
Element	Point Type	Station	Northing	Easting	Bearing (Forward)	Radius	Length	Delta	Rotation Direction	
Tangent	POT	46+68.31	344477.432	747824.534	S06°04'41"E					
Tangent	PC	55+55.33	343595.399	747918.453						
Arc	PC	55+55.33	343595.399	747918.453						
Arc	PI	56+62.24	343489.086	747929.773	S06°04'41"E	2864.78	213.73	04°16'28"	Right	
Arc	CC		343292.071	745069.772						
Arc	PT	57+69.06	343382.226	747933.137						
Tangent	PT	57+69.06	343382.226	747933.137	S01°48'12"E					
Tangent	POT	64+73.08	342678.547	747955.293						

Alignment Name:		E								
Element	Point Type	Station	Northing	Easting	Bearing (Forward)	Radius	Length	Delta	Rotation Direction	
Tangent	POT	49+90.75	343486.325	747431.945	S89°02'41"E					
Tangent	POT	66+00.00	343459.495	749040.97						

Plc11/19/2022 2:36:54 PM By: mramw Pen: Transportation.tbl Model: Sheet 1



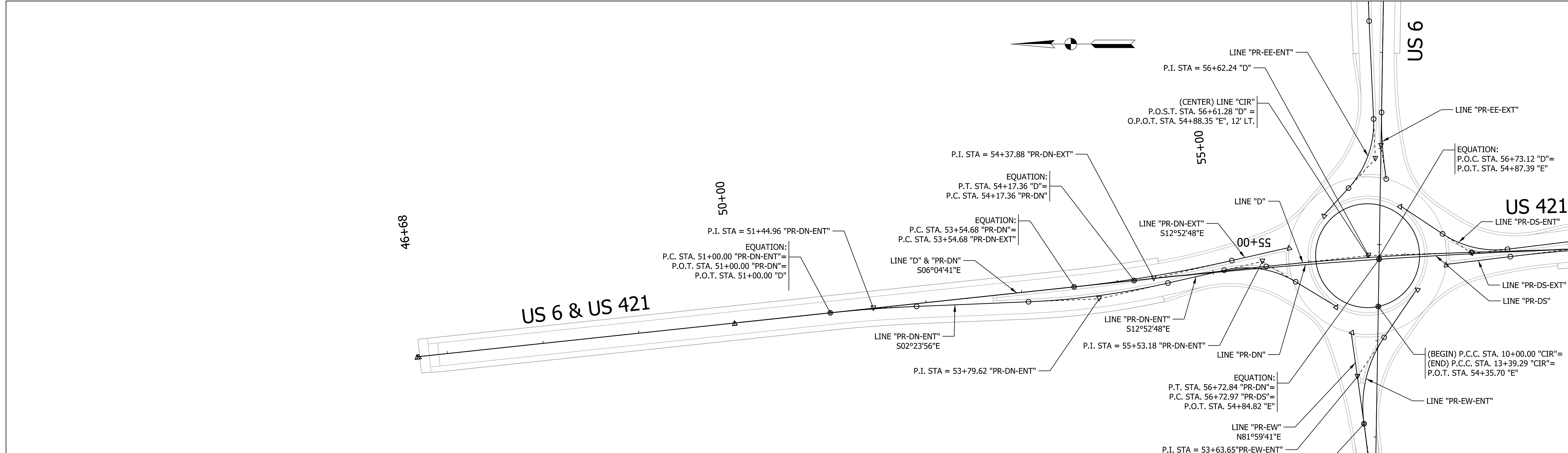
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JJV _____	DRAWN: KTH _____	
CHECKED: REW _____	CHECKED: JJV _____	

INDIANA
 DEPARTMENT OF TRANSPORTATION

 GEOMETRIC TIE SHEET
 EXISTING ALIGNMENTS

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 11 of 59
CONTRACT R-43059	PROJECT 1702989

Plc:1/19/2022 2:36:58 PM By: mramm Per: Transportation.tbl Model:Sheet 2



Alignment Name:		PR-DN								
Element	Point Type	Station	Northing	Easting	Bearing (Forward)	Radius	Length	Delta	Rotation Direction	
Tangent	POT	46+70.00	344475.751	747824.712						
Tangent	PC	54+17.36	343732.591	747903.844						
Arc	PC	54+17.36	343732.591	747903.844						
Arc	PI	55+45.12	343605.554	747917.371		6561.68	255.48	2°13'51"	Right	
Arc	CC		343037.83	741379.049						
Arc	PT	56+72.84	343478.087	747925.943	S03°50'50"E					

Alignment Name:		PR-DN-ENT								
Element	Point Type	Station	Northing	Easting	Bearing (Forward)	Radius	Length	Delta	Rotation Direction	
Tangent	POB	50+00.00	344147.606	747859.653						
Tangent	PC	51+00.00	344048.168	747870.242						
Arc	PC	51+00.00	344048.168	747870.242						
Arc	PI	51+44.96	344003.457	747875.002		1400	89.9	3'40'45"	Right	
Arc	CC		343899.934	746478.111						
Arc	PT	51+89.90	343958.531	747876.884						
Tangent	PT	51+89.90	343958.531	747876.884						
Tangent	PC	53+06.25	343842.286	747881.754						
Arc	PC	53+06.25	343842.286	747881.754						
Arc	PI	53+79.62	343768.972	747884.825		800	146.35	10'28'53"	Left	
Arc	CC		343875.77	748681.053						
Arc	PT	54+52.59	343697.441	747901.182						
Tangent	PT	54+52.59	343697.441	747901.182						
Tangent	PC	55+12.59	343638.95	747914.557						
Arc	PC	55+12.59	343638.95	747914.557						
Arc	PI	55+53.18	343599.386	747923.604		100	77.11	44'10'50"	Right	
Arc	CC		343616.659	747817.073						
Arc	PT	55+89.70	343564.707	747902.519						
Tangent	PT	55+89.70	343564.707	747902.519						
Tangent	POE	56+39.41	343522.237	747876.696						

Alignment Name:		PR-DN-EXT								
Element	Point Type	Station	Northing	Easting	Bearing (Forward)	Radius	Length	Delta	Rotation Direction	
Tangent	POB	50+00.00	344147.606	747859.653						
Tangent	PC	53+54.68	343794.919	747897.208						
Arc	PC	53+54.68	343794.919	747897.208						
Arc	PI	54+37.88	343712.186	747906.017		1400	166.21	6°48'08"	Left	
Arc	CC		343943.154	749289.338						
Arc	PT	55+20.89	343631.078	747924.564						
Tangent	PT	55+20.89	343631.078	747924.564						
Tangent	POE	55+81.92	343571.586	747938.167						

Alignment Name:		PR-EW-ENT								
Element	Point Type	Station	Northing	Easting	Bearing (Forward)	Radius	Length	Delta	Rotation Direction	
Arc	PC	51+50.00	343483.669	747591.173						
Arc	PI	52+32.27	343482.298	747673.435		1050	164.21	8°57'38"	Left	
Arc	CC		344533.524	747608.679						
Arc	PRC	53+14.21	343493.756	747754.907						
Arc	PRC	53+14.21	343493.756	747754.907						
Arc	PI	53+63.65	343500.641	747803.867		128	94.36	42°14'22"	Right	
Arc	CC		343367.003	747772.733						
Arc	PT	54+08.58	343472.826	747844.743						
Tangent	PT	54+08.58	343472.826	747844.743						
Tangent	POE	54+69.11	343438.769	747894.793						

Alignment Name:		PR-EW								
Element	Point Type	Station	Northing	Easting	Bearing (Forward)	Radius	Length	Delta	Rotation Direction	
Tangent	POT	50+00.00	343486.167	747441.193	S89°02'46"E					
Tangent	PC	51+50.00	343483.669	747591.173						
Arc	PC	51+50.00	343483.669	747591.173	S89°02'46"E					
Arc	PI	52+32.27	343482.298	747673.435		1050	164.21	08°57'38"	Left	
Arc	CC		344533.524	747608.679						
Arc	PT	53+14.21	343493.756	747754.907						
Tangent	PT	53+14.21	343493.756	747754.907	N81°59'41"E					
Tangent	POT	54+09.70	343507.053	747849.46						

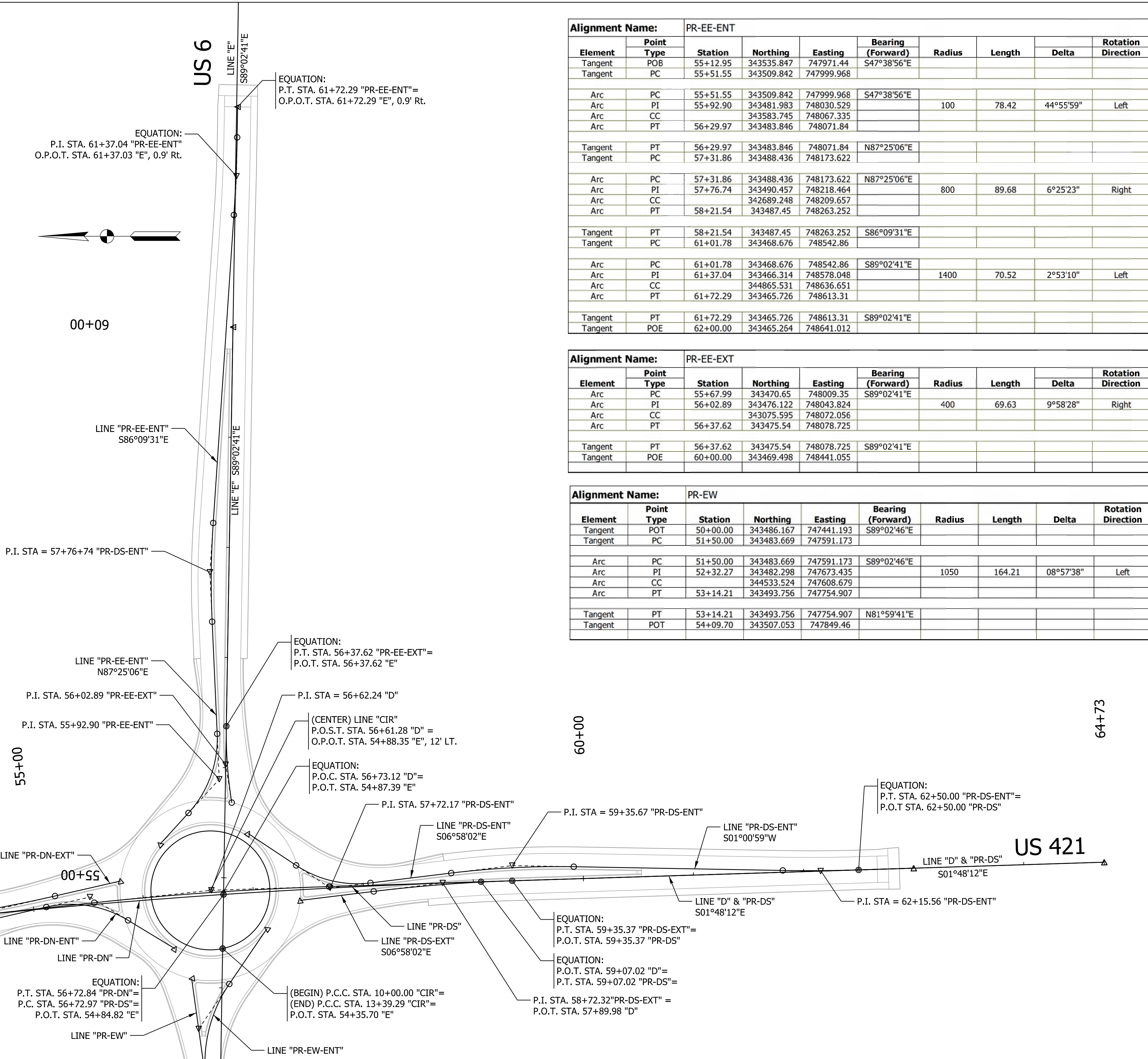


RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE _____
 DESIGNED: JJV DRAWN: KTH
 CHECKED: REW CHECKED: REW

INDIANA
 DEPARTMENT OF TRANSPORTATION

GGEOMETRIC TIE SHEET
 LINES "PR-DN" & "PR-EW"

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 12 of 59
CONTRACT R-43059	PROJECT 1702989



Alignment Name:		PR-EE-ENT									
Element	Point Type	Station	Northing	Easting	Bearing	Radius	Length	Delta	Rotation	Direction	
					(Forward)						
Tangent	POB	55+12.95	343535.847	747971.44	S47°38'56"E						
Tangent	PC	55+51.55	343509.842	747999.968							
Arc	PC	55+51.55	343509.842	747999.968	S47°38'56"E						
Arc	PI	55+92.90	343481.983	748030.529		100	78.42	44°55'59"		Left	
Arc	CC		343583.745	748067.335							
Arc	PT	56+29.97	343483.846	748071.84							
Tangent	PT	56+29.97	343483.846	748071.84	N87°25'06"E						
Tangent	PC	57+31.86	343488.436	748173.622							
Arc	PC	57+31.86	343488.436	748173.622	N87°25'06"E						
Arc	PI	57+76.74	343490.457	748218.464		800	89.68	6°25'23"		Right	
Arc	CC		342689.248	748209.657							
Arc	PT	58+21.54	343487.45	748263.252							
Tangent	PT	58+21.54	343487.45	748263.252	S86°09'31"E						
Tangent	PC	61+01.78	343468.676	748542.86							
Arc	PC	61+01.78	343468.676	748542.86	S89°02'41"E						
Arc	PI	61+37.04	343466.314	748578.048		1400	70.52	2°53'10"		Left	
Arc	CC		344865.531	748636.651							
Arc	PT	61+72.29	343465.726	748613.31							
Tangent	PT	61+72.29	343465.726	748613.31	S89°02'41"E						
Tangent	POE	62+00.00	343465.264	748641.012							

Alignment Name:		PR-EE-EXT									
Element	Point Type	Station	Northing	Easting	Bearing	Radius	Length	Delta	Rotation	Direction	
					(Forward)						
Arc	PC	55+67.99	343470.65	748009.35	S89°02'41"E						
Arc	PI	56+02.89	343476.122	748043.824		400	69.63	9°58'28"		Right	
Arc	CC		343075.595	748072.056							
Arc	PT	56+37.62	343475.54	748078.725							
Tangent	PT	56+37.62	343475.54	748078.725	S89°02'41"E						
Tangent	POE	60+00.00	343469.498	748441.055							

Alignment Name:		PR-EW									
Element	Point Type	Station	Northing	Easting	Bearing	Radius	Length	Delta	Rotation	Direction	
					(Forward)						
Tangent	POT	50+00.00	343486.167	747441.193	S89°02'46"E						
Tangent	PC	51+50.00	343483.669	747591.173							
Arc	PC	51+50.00	343483.669	747591.173	S89°02'46"E						
Arc	PI	52+32.27	343482.298	747673.435		1050	164.21	08°57'38"		Left	
Arc	CC		344533.524	747608.679							
Arc	PT	53+14.21	343493.756	747754.907							
Tangent	PT	53+14.21	343493.756	747754.907	N81°59'41"E						
Tangent	POT	54+09.70	343507.053	747849.46							

Alignment Name:		PR-DS-ENT									
Element	Point Type	Station	Northing	Easting	Bearing	Radius	Length	Delta	Rotation	Direction	
					(Forward)						
Tangent	POB	56+82.90	343455.734	747981.325	S33°34'52"W						
Tangent	PC	57+35.23	343412.135	747952.379							
Arc	PC	57+35.23	343412.135	747952.379	S33°34'52"W						
Arc	PI	57+72.17	343381.36	747931.947		100	70.77	40°32'54"		Left	
Arc	CC		343356.823	748035.689							
Arc	PT	58+06.00	343344.693	747936.428							
Tangent	PT	58+06.00	343344.693	747936.428	S06°58'02"E						
Tangent	PC	58+79.84	343271.402	747945.384							
Arc	PC	58+79.84	343271.402	747945.384	S06°58'02"E						
Arc	PI	59+35.67	343215.988	747952.156		800	111.47	7°59'01"		Right	
Arc	CC		343174.361	747151.292							
Arc	PT	59+91.31	343160.171	747951.166							
Tangent	PT	59+91.31	343160.171	747951.166	S01°00'59"W						
Tangent	PC	61+81.10	342970.41	747947.799							
Arc	PC	61+81.10	342970.41	747947.799	S01°00'59"W						
Arc	PI	62+15.56	342935.96	747947.188		1400	68.9	2°49'11"		Left	
Arc	CC		342945.579	749347.579							
Arc	PT	62+50.00	342901.521	747948.273							
Tangent	PT	62+50.00	342901.521	747948.273	S01°48'12"E						
Tangent	POE	63+00.00	342851.546	747949.846							

Alignment Name:		PR-DS-EXT									
Element	Point Type	Station	Northing	Easting	Bearing	Radius	Length	Delta	Rotation	Direction	
					(Forward)						
Tangent	POB	57+41.92	343408.534	747920.567	S06°58'02"E						
Tangent	PC	58+09.19	343341.76	747928.727							
Arc	PC	58+09.19	343341.76	747928.727	S06°58'02"E						
Arc	PI	58+72.32	343279.096	747936.384		1400	126.18	5°09'50"		Right	
Arc	CC		343171.938	746539.065							
Arc	PT	59+35.37	343215.996	747938.371							
Tangent	PT	59+35.37	343215.996	747938.371	S01°48'12"E						
Tangent	POE	63+00.00	342851.546	747949.846							

Alignment Name:		PR-DS									
Element	Point Type	Station	Northing	Easting	Bearing	Radius	Length	Delta	Rotation	Direction	
					(Forward)						
Arc	PC	56+72.97	343478.087	747925.943	S03°50'50"E						
Arc	PI	57+90.01	343361.31	747933.796		6561.68	234.06	2°02'38"		Right	
Arc	CC		343037.83	741379.049							
Arc	PT	59+07.02	343244.326	747937.479							
Tangent	PT	59+07.02	343244.326	747937.479	S01°48'12"E						
Tangent	POT	64+73.08	342678.547	747955.293							

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 By: muramw
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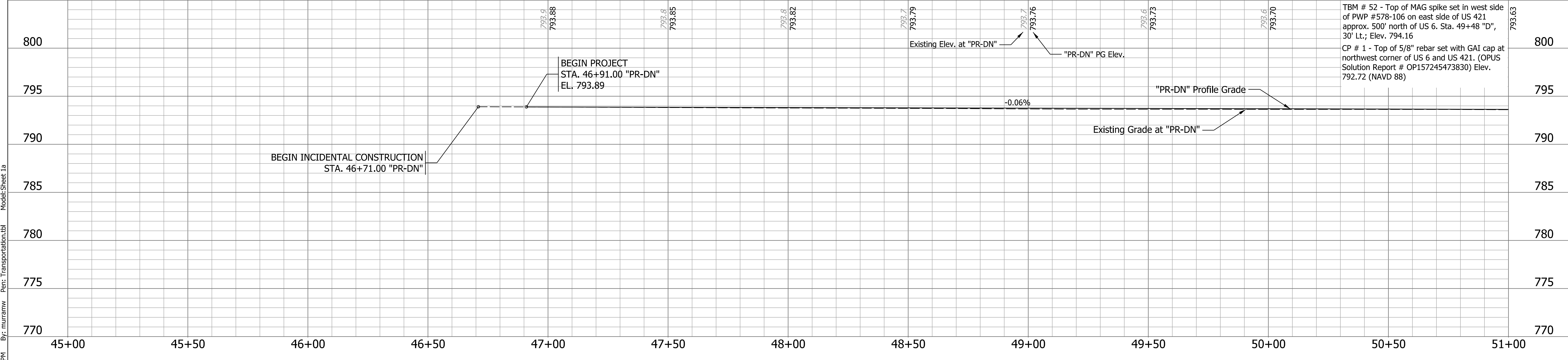
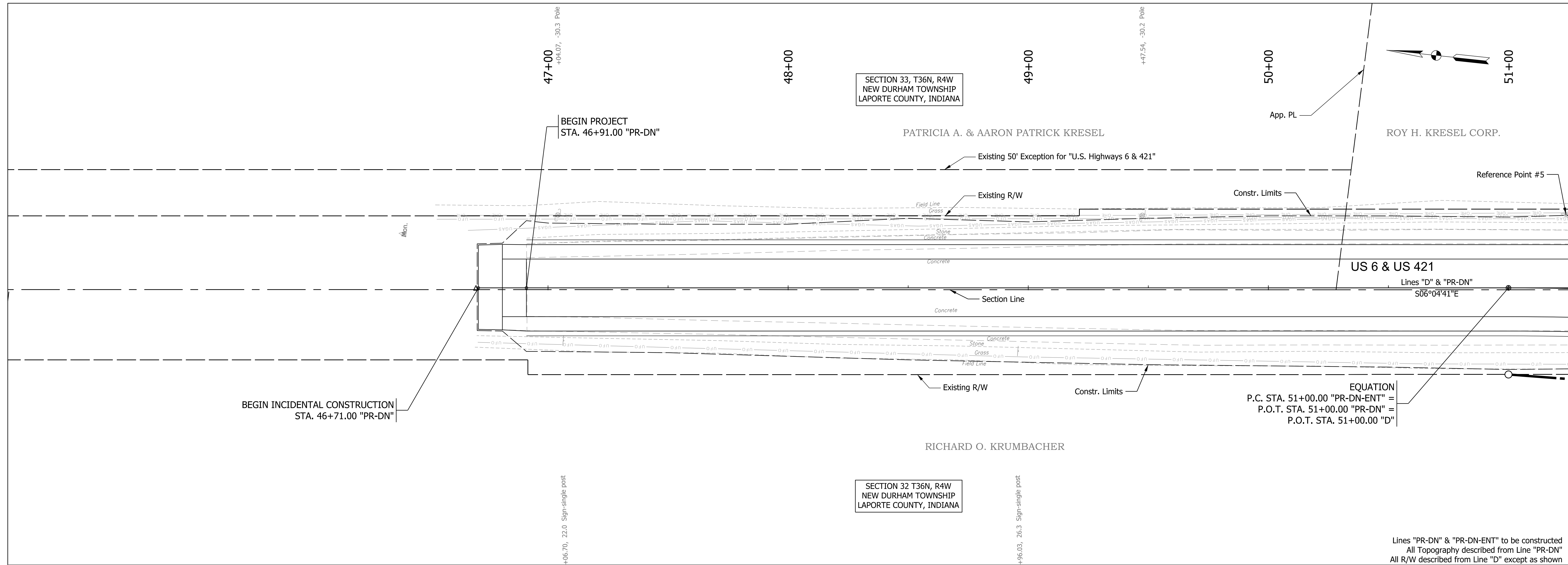


RECOMMENDED FOR APPROVAL _____ DATE _____
 DESIGN ENGINEER _____
 DESIGNED: JJV DRAWN: KTH
 CHECKED: REW CHECKED: REW

INDIANA
DEPARTMENT OF TRANSPORTATION

GGEOMETRIC TIE SHEET
LINES "PR-DS" & "E"

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 13 of 59
CONTRACT R-43059	PROJECT 1702989



Lines "PR-DN" & "PR-DN-ENT" to be constructed
 All Topography described from Line "PR-DN"
 All R/W described from Line "D" except as shown

TBM # 52 - Top of MAG spike set in west side of PWP #578-106 on east side of US 421 approx. 500' north of US 6. Sta. 49+48 "D", 30' Lt.; Elev. 794.16
 CP # 1 - Top of 5/8" rebar set with GAI cap at northwest corner of US 6 and US 421. (OPUS Solution Report # OP157245473830) Elev. 792.72 (NAVD 88)

Plc1:1/9/2022 2:37:49 PM By: mramw Per: Transportation.tbl Model:Sheet 1a

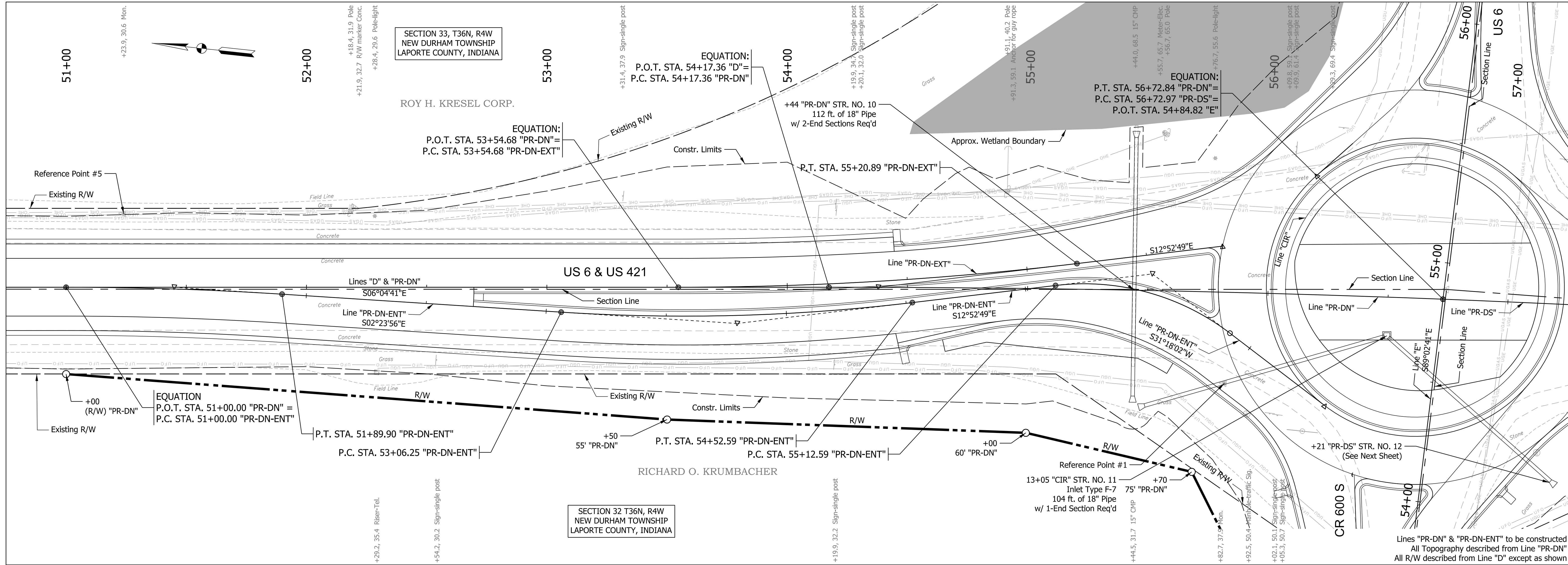


RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JJV	DRAWN: KTH	
CHECKED: REW	CHECKED: JJV	

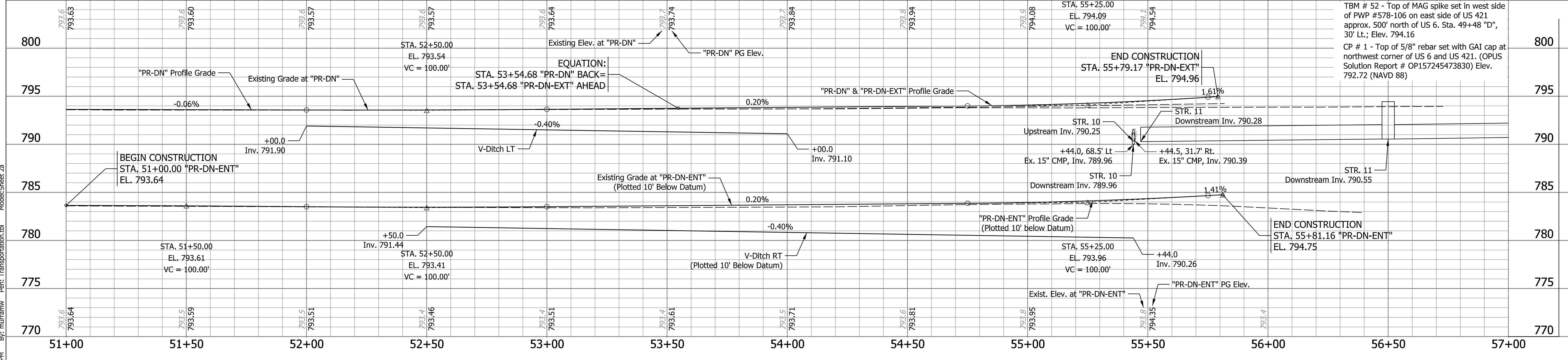
INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINES "D", "PR-DN", & "PR-DN-ENT"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1702989
SURVEY BOOK	SHEETS 14 of 59
CONTRACT R-43059	PROJECT 1702989



Lines "PR-DN" & "PR-DN-EXT" to be constructed
 All Topography described from Line "PR-DN"
 All R/W described from Line "D" except as shown



TBM # 52 - Top of MAG spike set in west side of PWP #578-106 on east side of US 421 approx. 500' north of US 6. Sta. 49+48 "D", 30' Lt.; Elev. 794.16
 CP # 1 - Top of 5/8" rebar set with GAI cap at northwest corner of US 6 and US 421. (OPUS Solution Report # OP157245473830) Elev. 792.72 (NAVD 88)



gai consultants

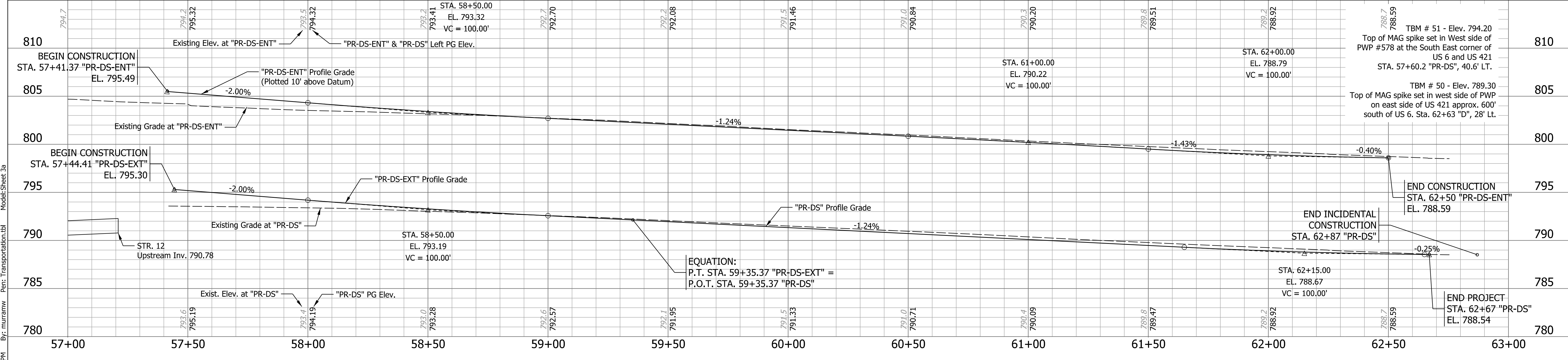
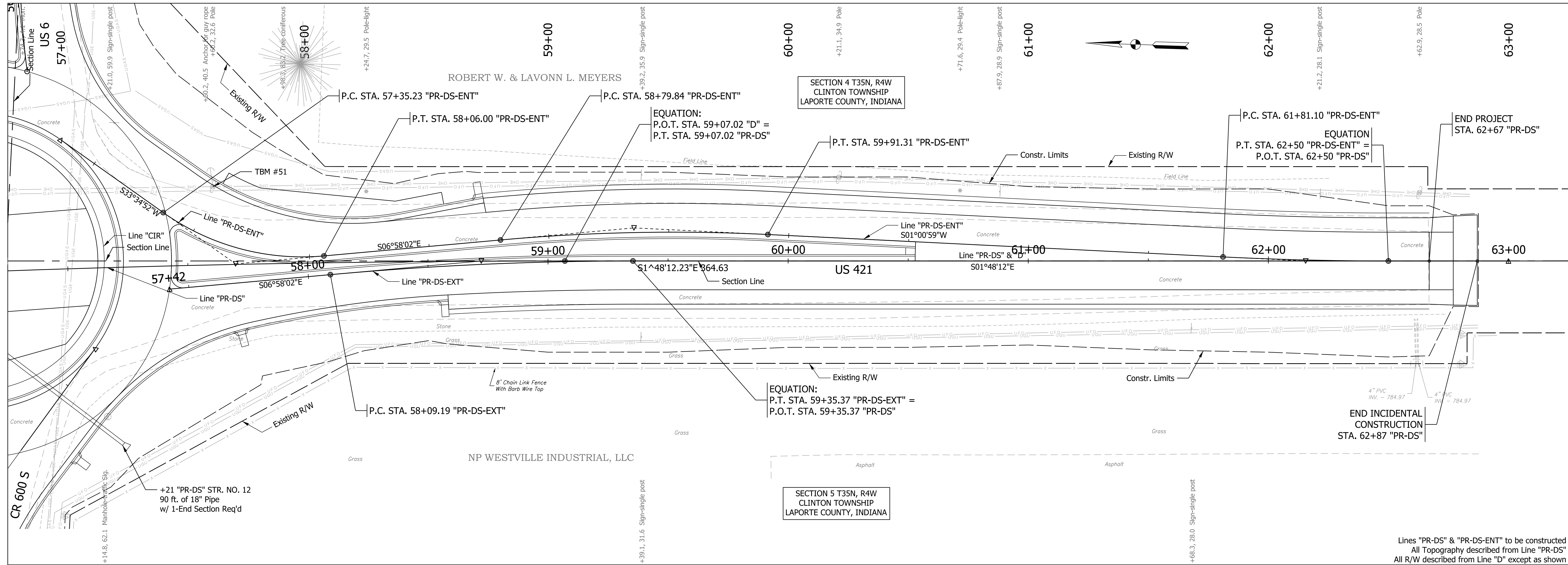
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JJV	DRAWN: KTH	
CHECKED: REW	CHECKED: JJV	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE
LINES "D", "PR-DN", & "PR-DN-EXT"**

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1702989
SURVEY BOOK	SHEETS 15 of 59
CONTRACT R-43059	PROJECT 1702989

Plc11/19/2022 2:37:54 PM By: muramw Per: Transportation.tbl Model: Sheet 2a



Lines "PR-DS" & "PR-DS-ENT" to be constructed
 All Topography described from Line "PR-DS"
 All R/W described from Line "D" except as shown

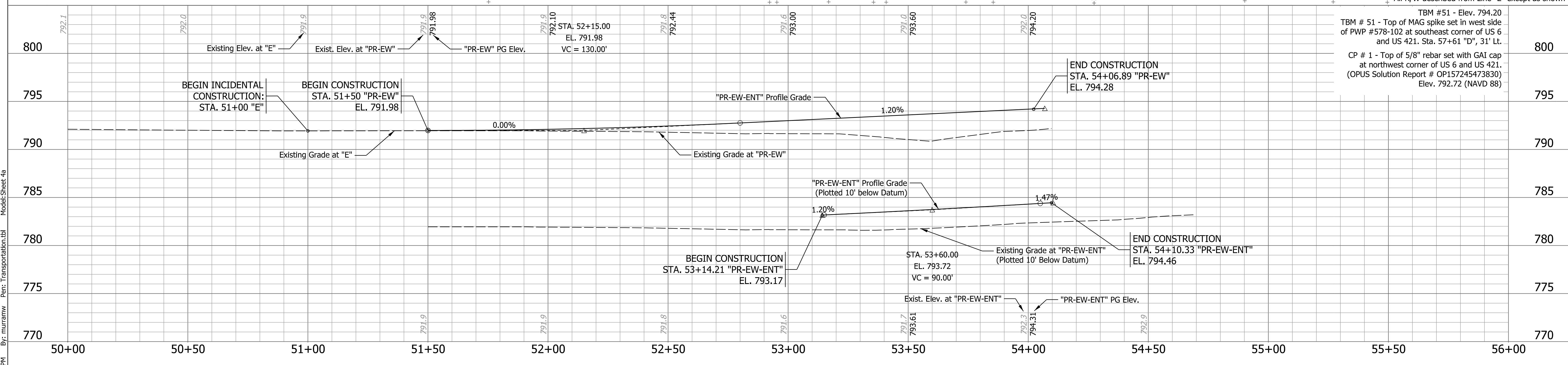
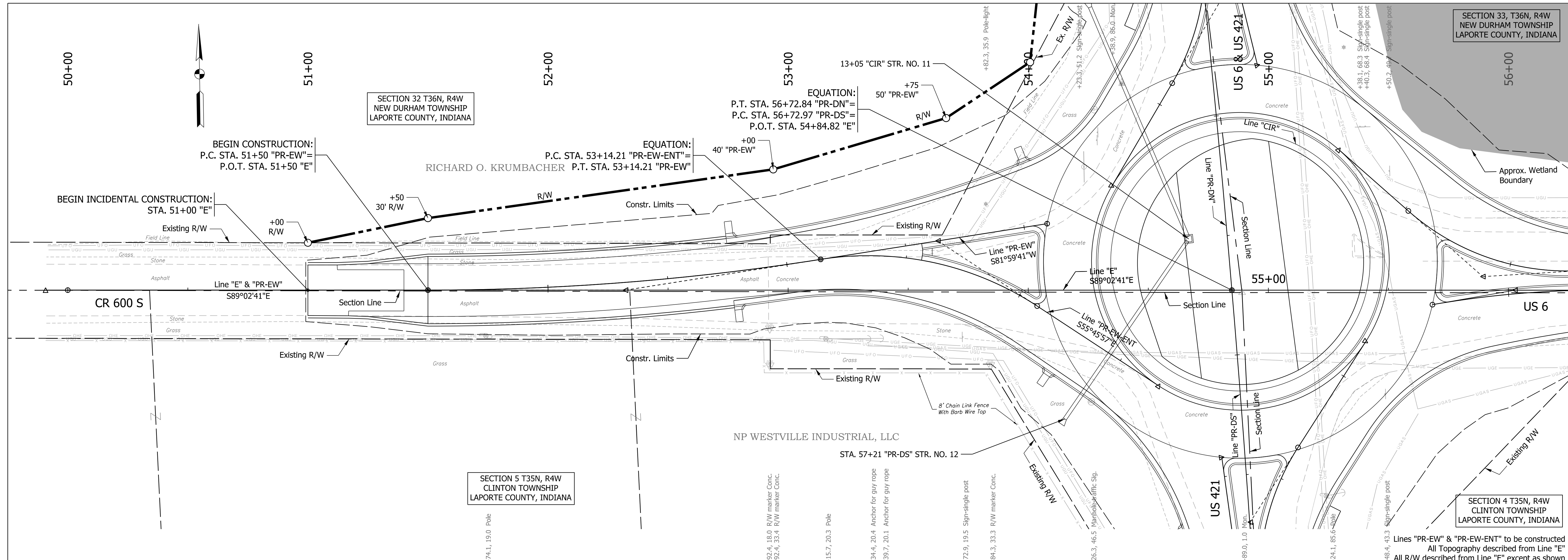
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 Date: 2/27/2022
 Project: I:\Intra\2019\190007.00 - INDOT LaPorte US 6 RAB\CAD\Production Drawings\190007.00 - Plan and Profile.dgn


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JJV	DRAWN: KTH	
CHECKED: REW	CHECKED: JJV	

INDIANA DEPARTMENT OF TRANSPORTATION

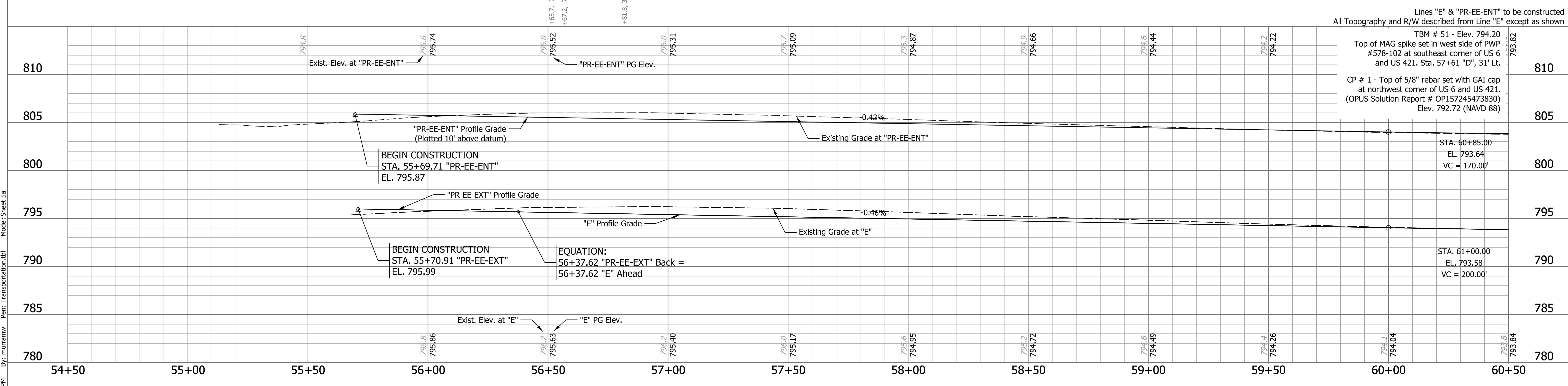
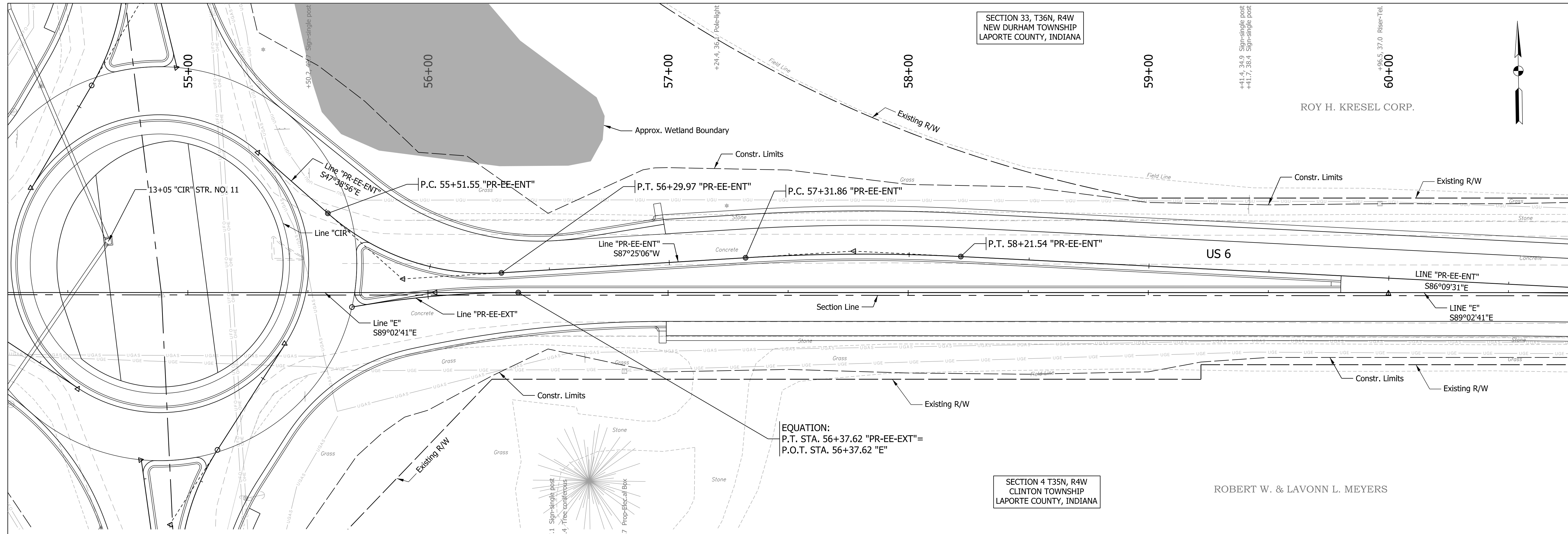
PLAN AND PROFILE LINES "D", "PR-DS", & "PR-DS-ENT"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1702989
SURVEY BOOK	SHEETS
	16 of 59
CONTRACT	PROJECT
R-43059	1702989



	RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION PLAN AND PROFILE LINES "E", "PR-EW" & "PR-EW-ENT"	HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
	DESIGNED: JJV	DRAWN: KTH			VERTICAL SCALE 1" = 5'	DESIGNATION 1702989
	CHECKED: REW	CHECKED: JJV			SURVEY BOOK	SHEETS 17 of 59
			CONTRACT R-43059		PROJECT 1702989	

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Model: Sheet Ea

Per: Transportation.tbl

By: muramw

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1/19/2022

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JJV	DRAWN: KTH	
CHECKED: REW	CHECKED: JJV	

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINES "E", "PR-EE-EXT", & "PR-EE-ENT"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1702989
SURVEY BOOK	SHEETS 18 of 59
CONTRACT R-43059	PROJECT 1702989

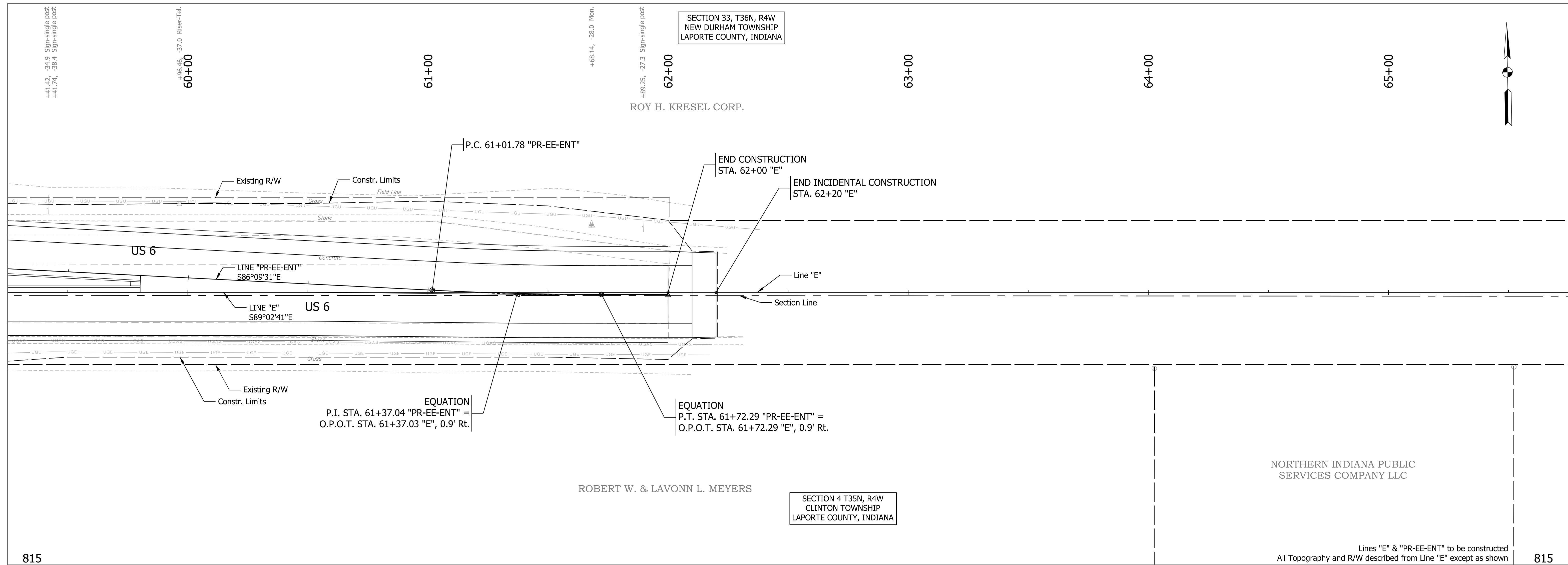
SECTION 33, T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA

ROY H. KRESEL CORP.

SECTION 4 T35N, R4W
CLINTON TOWNSHIP
LAPORTE COUNTY, INDIANA

ROBERT W. & LAVONN L. MEYERS

NORTHERN INDIANA PUBLIC
SERVICES COMPANY LLC



EQUATION
P.I. STA. 61+37.04 "PR-EE-ENT" =
O.P.O.T. STA. 61+37.03 "E", 0.9' Rt.

EQUATION
P.T. STA. 61+72.29 "PR-EE-ENT" =
O.P.O.T. STA. 61+72.29 "E", 0.9' Rt.

Lines "E" & "PR-EE-ENT" to be constructed
All Topography and R/W described from Line "E" except as shown



TBM # 51 - Elev. 794.20
Top of MAG spike set in west side of PWP
#578-102 at southeast corner of US 6
and US 421. Sta. 57+61 "D", 31' Lt.
CP # 1 - Top of 5/8" rebar set with GAI cap
at northwest corner of US 6 and US 421.
(OPUS Solution Report # OP157245473830)
Elev. 792.72 (NAVD 88)

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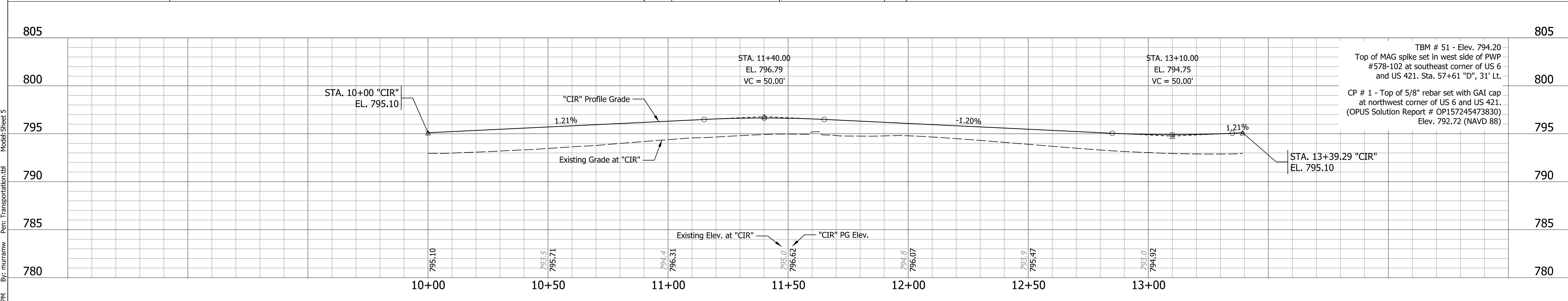
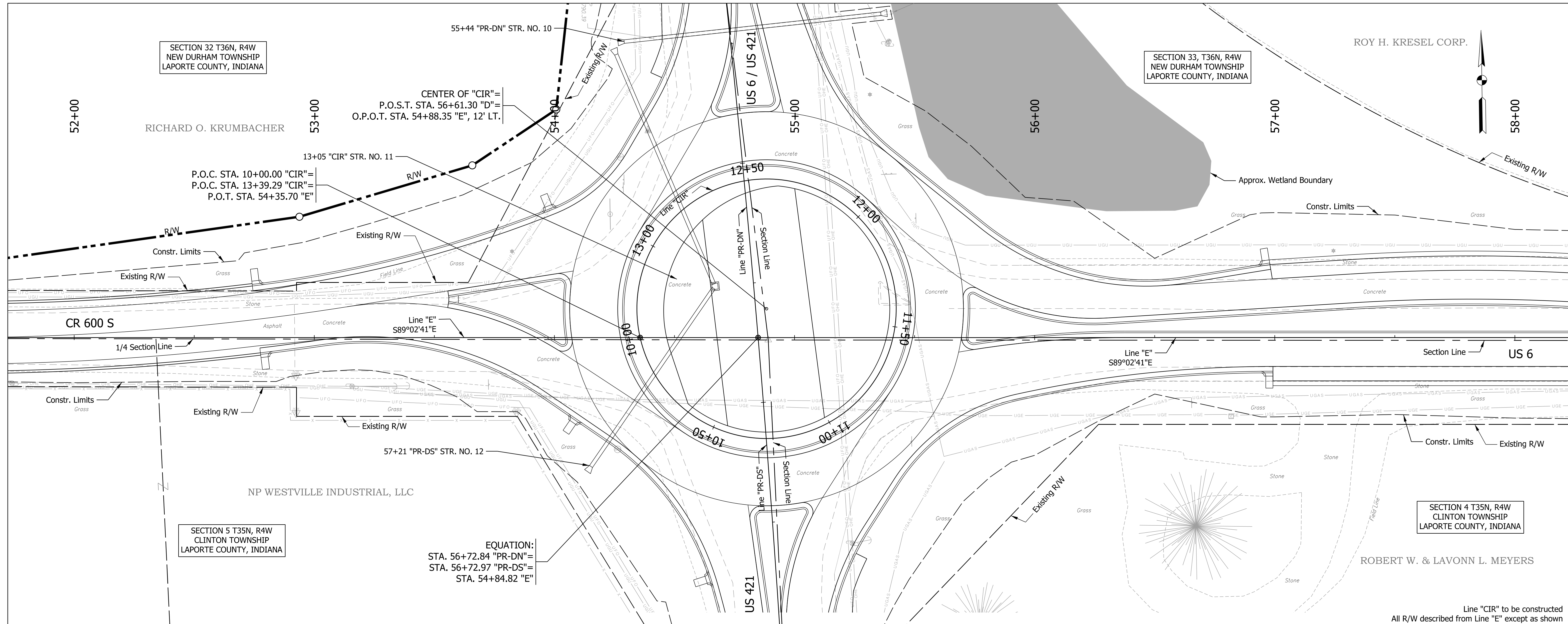


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JJV	DRAWN: KTH	
CHECKED: REW	CHECKED: JJV	

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINES "E" & "PR-EE-ENT"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1702989
SURVEY BOOK	SHEETS 19 of 59
CONTRACT R-43059	PROJECT 1702989



By: muramw Per: Transportation.tbl Model: Sheet 5
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JJV	DRAWN: KTH	
CHECKED: REW	CHECKED: JJV	

INDIANA DEPARTMENT OF TRANSPORTATION

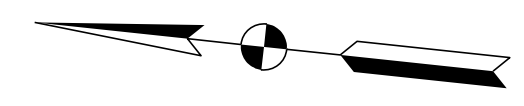
PLAN AND PROFILE LINE "CIR"

SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1702989
SURVEY BOOK	SHEETS
	20 of 59
CONTRACT	PROJECT
R-43059	1702989

47+00

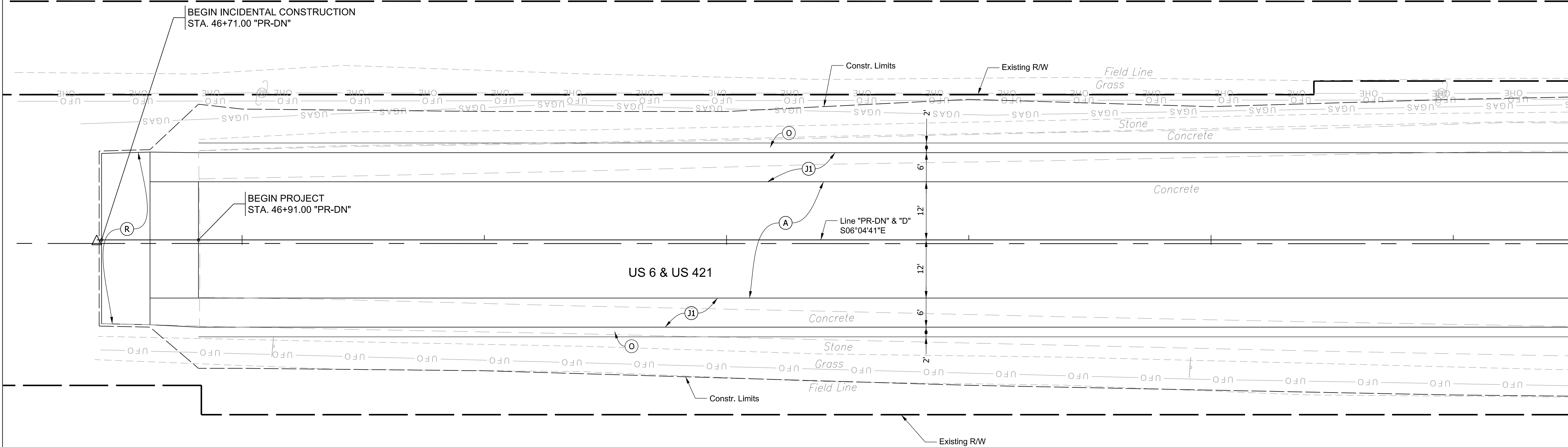
48+00

49+00



SECTION 33, T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA

PATRICIA A. & AARON PATRICK KRESEL



RICHARD O. KRUMBACHER

SECTION 32 T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA

LEGEND

- (17) Concrete Curb and Gutter, Type B
- (18) Concrete Curb and Gutter, Type B, Modified
- (19) Concrete Curb and Gutter, Roundabout
- (22) Concrete Center Curb, Type B
- (26) Mulched Seeding, Type R
- (A) PCCP, 7 in. w/ Transverse D-1 Joints @ ___ ft. spacing, on Subbase for PCCP, on Subgrade Treatment Type ___
- (A1) Truck Apron PCCP, 7 in. w/ Transverse D-1 Joints @ ___ ft. spacing, on Subbase for PCCP, on Subgrade Treatment Type ___
- (A2) PCCP, 7 in., on Subbase for PCCP, on Subgrade Treatment Type IC
- (J1) PCCP, 11 in. Shoulder, on Subbase for PCCP, on Subgrade Treatment Type ___
- (J2) Geocell Vegetated Pavement System: 2 in. Infill Topsoil-Aggregate Mix, on 8 in. Geocell Confining System, on Geotextile Type 2A, on 5 in. of Compacted Aggregate, No. 53
- (K) HMA for Approaches, Type B, consisting of: 165 lb/syd HMA Surface, Type B, on 495 lb/syd HMA Intermediate, Type B, on 4 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
- (O) 6 in. of Compacted Aggregate, No. 53
- (R) HMA for Approaches, Type B, consisting of: 165 lb/syd HMA Surface, Type B, on 1 1/2" Asphalt Surface Milling
- (U) Pipe, 6 in., Type 4



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JJV	DRAWN: KTH	
CHECKED: REW	CHECKED: JJV	

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
47+00 TO 50+50 LINES "D" & "PR-DN"

SCALE 1" = 10'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 21 of 59
CONTRACT R-43059	PROJECT 1702989

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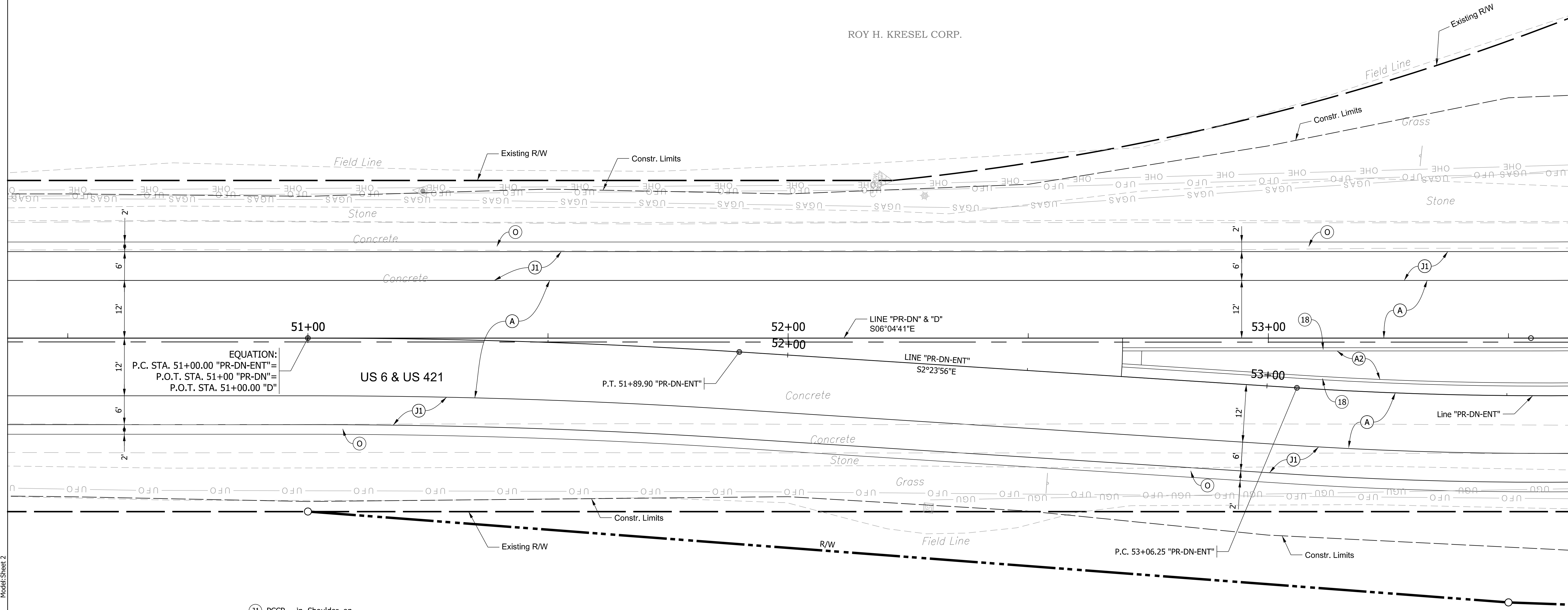
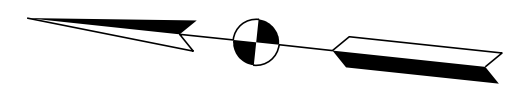
51+00

52+00

53+00

SECTION 33, T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA

ROY H. KRESEL CORP.



RICHARD O. KRUMBACHER

SECTION 32 T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA

LEGEND

- (17) Concrete Curb and Gutter, Type B
- (18) Concrete Curb and Gutter, Type B, Modified
- (19) Concrete Curb and Gutter, Roundabout
- (22) Concrete Center Curb, Type B
- (26) Mulched Seeding, Type R
- (A) PCCP, 7 in. w/ Transverse D-1 Joints @ 12 ft. spacing, on Subbase for PCCP, on Subgrade Treatment Type II
- (11) PCCP, 7 in. on Subbase for PCCP, on Subgrade Treatment Type II
- (12) Geocell Vegetated Pavement System:
2 in. Infill Topsoil-Aggregate Mix, on
8 in. Geocell Confining System, on
Geotextile Type 2A, on
5 in. of Compacted Aggregate, No. 53
- (K) HMA for Approaches, Type B, consisting of:
165 lb/syd HMA Surface, Type B, on
495 lb/syd HMA Intermediate, Type B, on
4 in. of Compacted Aggregate, No. 53, on
Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
- (R) HMA for Approaches, Type B, consisting of:
165 lb/syd HMA Surface, Type B, on
1 1/2" Asphalt Surface Milling
- (U) Pipe, 6 in., Type 4
- (O) 6 in. of Compacted Aggregate, No. 53



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JJV	DRAWN: KTH	
CHECKED: REW	CHECKED: JJV	

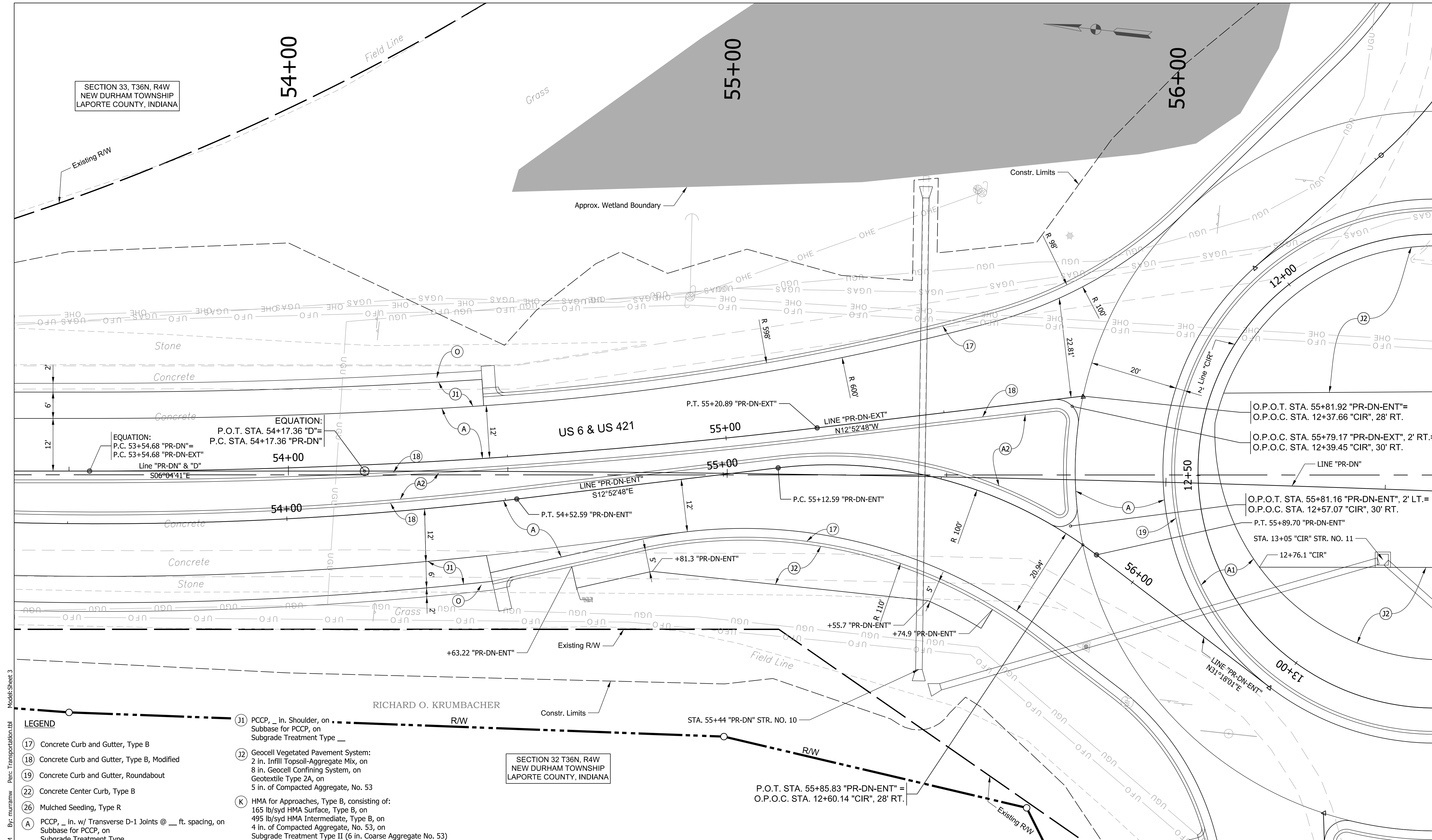
INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
50+50 TO 53+50 LINES "D" & "PR-DN"

SCALE 1" = 10'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 22 of 59
CONTRACT R-43059	PROJECT 1702989

Pict:1/19/2022 2:38:41 PM By: mramm Per: Transportation.tbl Model:Sheet 2

SECTION 33, T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA



Model: Sheet 3
 Pict: 1/19/2022 2:38:43 PM By: mramm Per: Transportation.tbl

- LEGEND**
- (17) Concrete Curb and Gutter, Type B
 - (18) Concrete Curb and Gutter, Type B, Modified
 - (19) Concrete Curb and Gutter, Roundabout
 - (22) Concrete Center Curb, Type B
 - (26) Mulched Seeding, Type R
 - (A) PCCP, 7 in. w/ Transverse D-1 Joints @ ___ ft. spacing, on Subbase for PCCP, on Subgrade Treatment Type ___
 - (A1) PCCP, 7 in., on Subbase for PCCP, on Subgrade Treatment Type IC
 - (A2) PCCP, 7 in., on Subbase for PCCP, on Subgrade Treatment Type ___
 - (K) HMA for Approaches, Type B, consisting of: 165 lb/syd HMA Surface, Type B, on 495 lb/syd HMA Intermediate, Type B, on 4 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
 - (O) ___ in. of Compacted Aggregate, No. 53
 - (R) HMA for Approaches, Type B, consisting of: 165 lb/syd HMA Surface, Type B, on 1 1/2" Asphalt Surface Milling
 - (U) Pipe, 6 in., Type 4

- (11) PCCP, ___ in. Shoulder, on Subbase for PCCP, on Subgrade Treatment Type ___
- (12) Geocell Vegetated Pavement System: 2 in. Infill Topsoil-Aggregate Mix, on 8 in. Geocell Confining System, on Geotextile Type 2A, on 5 in. of Compacted Aggregate, No. 53

SECTION 32 T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA

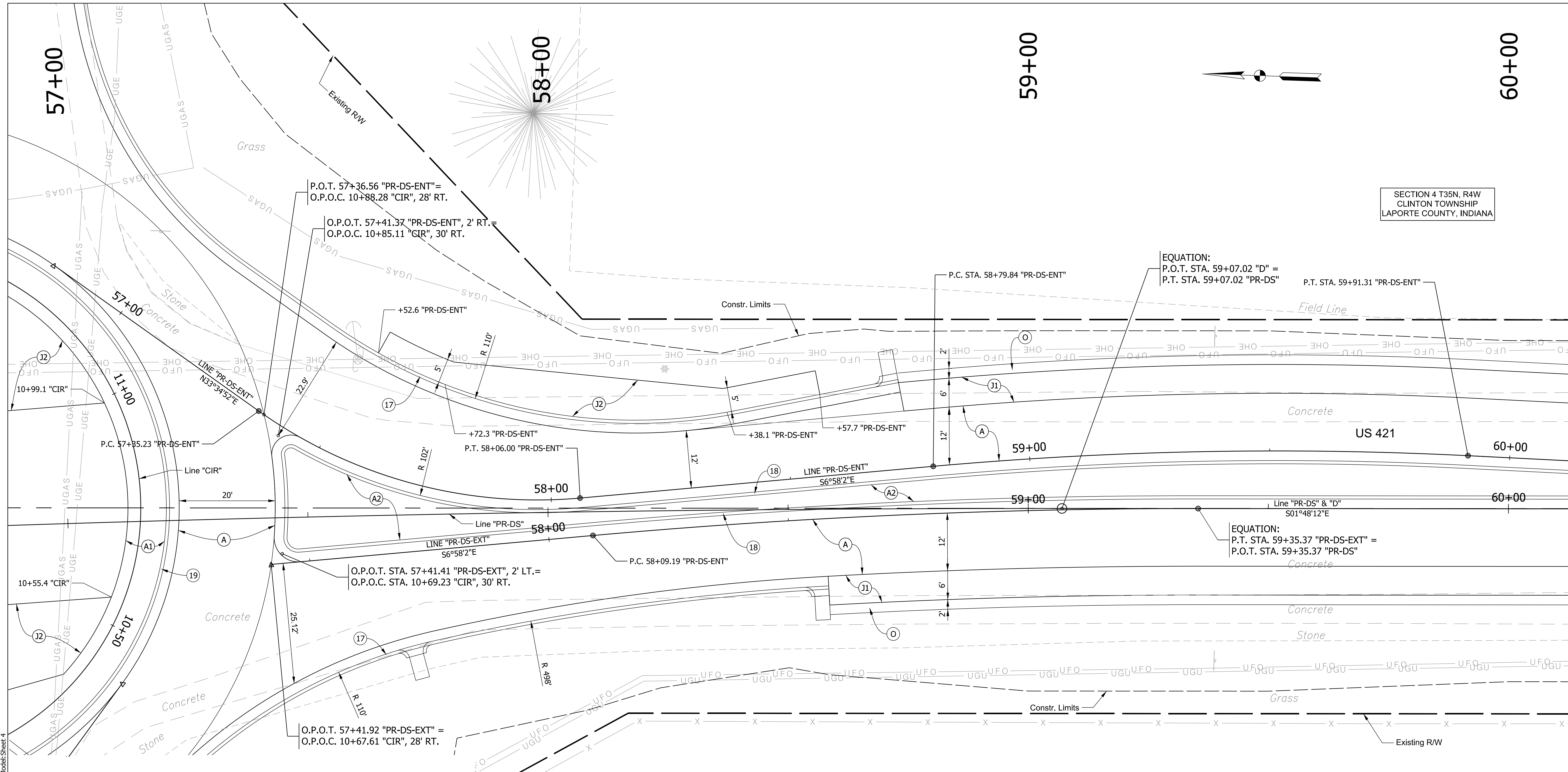


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JJV	DRAWN: KTH	
CHECKED: REW	CHECKED: JJV	

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
53+50 TO 56+50 LINES "D",
"PR-DN-ENT" & "PR-DN-EXT"

SCALE 1" = 10'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 23 of 59
CONTRACT R-43059	PROJECT 1702989



SECTION 4 T35N, R4W
CLINTON TOWNSHIP
LAPORTE COUNTY, INDIANA

EQUATION:
P.O.T. STA. 59+07.02 "D" =
P.T. STA. 59+07.02 "PR-DS"
P.T. STA. 59+91.31 "PR-DS-ENT"

EQUATION:
P.T. STA. 59+35.37 "PR-DS-EXT" =
P.O.T. STA. 59+35.37 "PR-DS"

SECTION 5 T35N, R4W
CLINTON TOWNSHIP
LAPORTE COUNTY, INDIANA

- LEGEND**
- (17) Concrete Curb and Gutter, Type B
 - (18) Concrete Curb and Gutter, Type B, Modified
 - (19) Concrete Curb and Gutter, Roundabout
 - (22) Concrete Center Curb, Type B
 - (26) Mulched Seeding, Type R
 - (A) PCCP, 7 in. w/ Transverse D-1 Joints @ 10 ft. spacing, on Subbase for PCCP, on Subgrade Treatment Type II
 - (A1) Truck Apron PCCP, 7 in. w/ Transverse D-1 Joints @ 10 ft. spacing, on Subbase for PCCP, on Subgrade Treatment Type II
 - (A2) PCCP, 7 in., on Subbase for PCCP, on Subgrade Treatment Type IC
 - (J1) PCCP, 12 in. Shoulder, on Subbase for PCCP, on Subgrade Treatment Type II
 - (J2) Geocell Vegetated Pavement System: 2 in. Infill Topsoil-Aggregate Mix, on 8 in. Geocell Confining System, on Geotextile Type 2A, on 5 in. of Compacted Aggregate, No. 53
 - (K) HMA for Approaches, Type B, consisting of: 165 lb/syd HMA Surface, Type B, on 495 lb/syd HMA Intermediate, Type B, on 4 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
 - (O) 6 in. of Compacted Aggregate, No. 53
 - (R) HMA for Approaches, Type B, consisting of: 165 lb/syd HMA Surface, Type B, on 1 1/2" Asphalt Surface Milling
 - (U) Pipe, 6 in., Type 4



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JJV	DRAWN: KTH	
CHECKED: REW	CHECKED: JJV	

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
57+00 TO 60+00 LINES "D", "PR-DS",
"PR-DS-ENT" & "PR-DS-EXT"

SCALE 1" = 10'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 24 of 59
CONTRACT R-43059	PROJECT 1702989

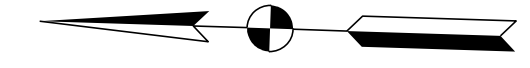
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60+00

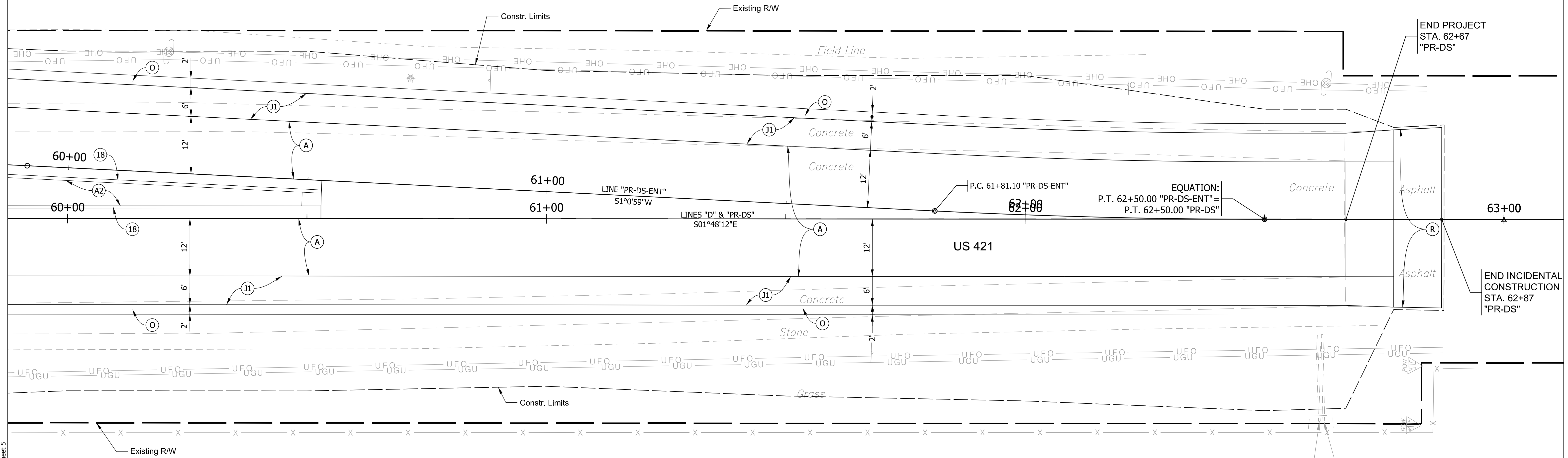
61+00

62+00

63+00



SECTION 4 T35N, R4W
CLINTON TOWNSHIP
LAPORTE COUNTY, INDIANA



END PROJECT
STA. 62+67
"PR-DS"

END INCIDENTAL
CONSTRUCTION
STA. 62+87
"PR-DS"

SECTION 5 T35N, R4W
CLINTON TOWNSHIP
LAPORTE COUNTY, INDIANA

Pict:1/19/2022 2:38:46 PM By: murrmw Per: Transportation.tbl Model:Sheet 5

LEGEND

- (17) Concrete Curb and Gutter, Type B
- (18) Concrete Curb and Gutter, Type B, Modified
- (19) Concrete Curb and Gutter, Roundabout
- (22) Concrete Center Curb, Type B
- (26) Mulched Seeding, Type R
- (A) PCCP, ___ in. w/ Transverse D-1 Joints @ ___ ft. spacing, on Subbase for PCCP, on Subgrade Treatment Type ___
- (A1) Truck Apron PCCP, ___ in. w/ Transverse D-1 Joints @ ___ ft. spacing, on Subbase for PCCP, on Subgrade Treatment Type ___
- (A2) PCCP, 7 in., on Subbase for PCCP, on Subgrade Treatment Type IC
- (J1) PCCP, ___ in. Shoulder, on Subbase for PCCP, on Subgrade Treatment Type ___
- (J2) Geocell Vegetated Pavement System: 2 in. Infill Topsoil-Aggregate Mix, on 8 in. Geocell Confining System, on Geotextile Type 2A, on 5 in. of Compacted Aggregate, No. 53
- (K) HMA for Approaches, Type B, consisting of: 165 lb/syd HMA Surface, Type B, on 495 lb/syd HMA Intermediate, Type B, on 4 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
- (O) ___ in. of Compacted Aggregate, No. 53
- (R) HMA for Approaches, Type B, consisting of: 165 lb/syd HMA Surface, Type B, on 1 1/2" Asphalt Surface Milling
- (U) Pipe, 6 in., Type 4



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JJV	DRAWN: KTH	
CHECKED: REW	CHECKED: JJV	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION DETAILS
60+00 TO 63+00 LINES "D", "PR-DS",
"PR-DS-ENT" & "PR-DS-EXT"**

SCALE 1" = 10'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 25 of 59
CONTRACT R-43059	PROJECT 1702989

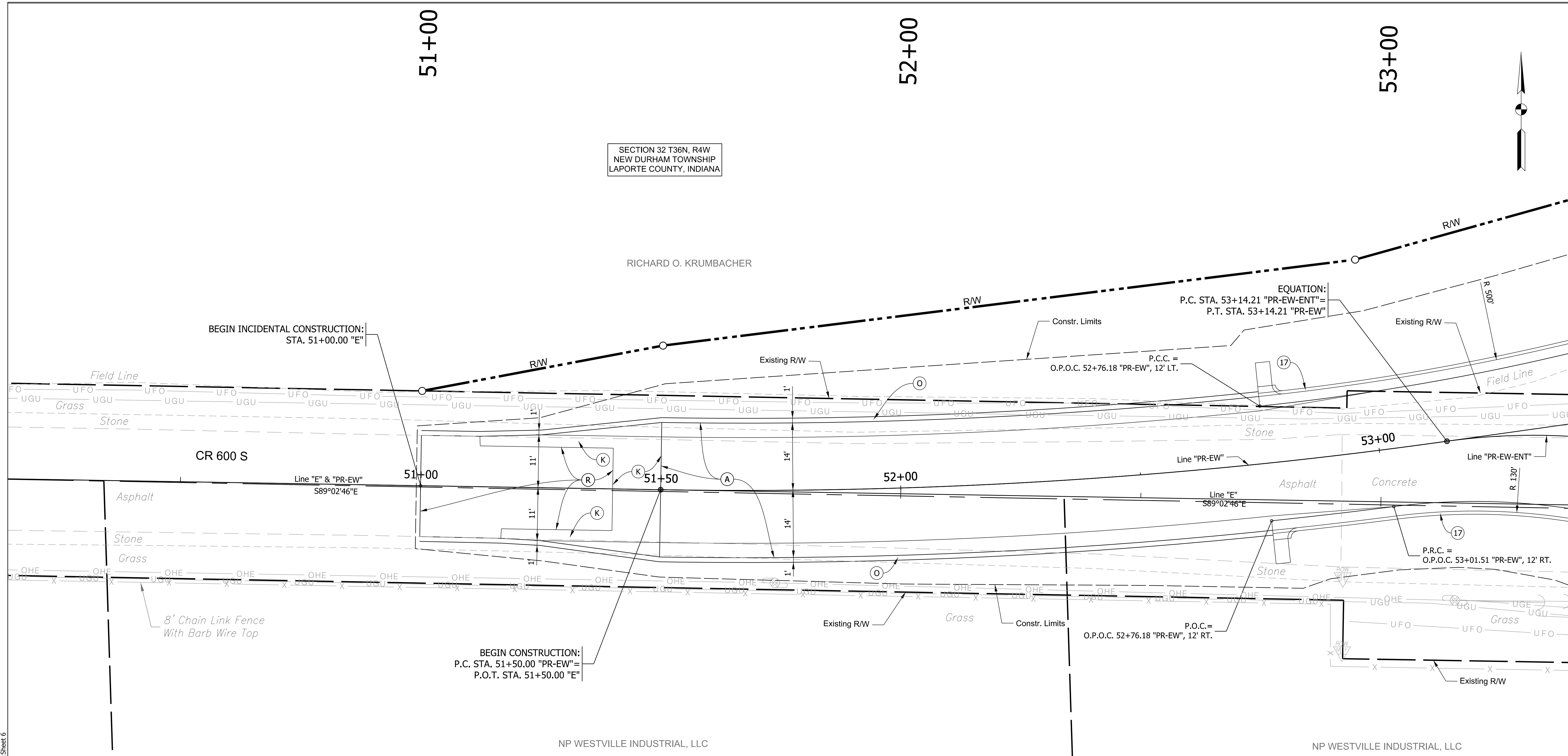
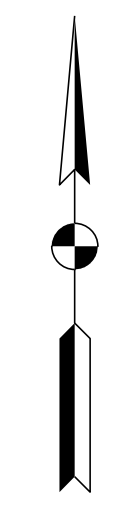
51+00

52+00

53+00

SECTION 32 T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA

RICHARD O. KRUMBACHER



Model: Sheet 6
Pen: Transportation.tbl
By: murrainw
2:38:47 PM
Plot: 11/19/2022

LEGEND

- (17) Concrete Curb and Gutter, Type B
- (18) Concrete Curb and Gutter, Type B, Modified
- (19) Concrete Curb and Gutter, Roundabout
- (22) Concrete Center Curb, Type B
- (26) Mulched Seeding, Type R
- (A) PCCP, ___ in. w/ Transverse D-1 Joints @ ___ ft. spacing, on Subbase for PCCP, on Subgrade Treatment Type ___
- (A1) Truck Apron PCCP, ___ in. w/ Transverse D-1 Joints @ ___ ft. spacing, on Subbase for PCCP, on Subgrade Treatment Type ___
- (A2) PCCP, 7 in., on Subbase for PCCP, on Subgrade Treatment Type IC

- (J1) PCCP, ___ in. Shoulder, on Subbase for PCCP, on Subgrade Treatment Type ___
- (J2) Geocell Vegetated Pavement System: 2 in. Infill Topsoil-Aggregate Mix, on 8 in. Geocell Confining System, on Geotextile Type 2A, on 5 in. of Compacted Aggregate, No. 53
- (K) HMA for Approaches, Type B, consisting of: 165 lb/syd HMA Surface, Type B, on 495 lb/syd HMA Intermediate, Type B, on 4 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
- (O) ___ in. of Compacted Aggregate, No. 53
- (R) HMA for Approaches, Type B, consisting of: 165 lb/syd HMA Surface, Type B, on 1 1/2" Asphalt Surface Milling
- (U) Pipe, 6 in., Type 4

NP WESTVILLE INDUSTRIAL, LLC

SECTION 5 T35N, R4W
CLINTON TOWNSHIP
LAPORTE COUNTY, INDIANA



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JJV	DRAWN: KTH	
CHECKED: REW	CHECKED: JJV	

INDIANA
DEPARTMENT OF TRANSPORTATION

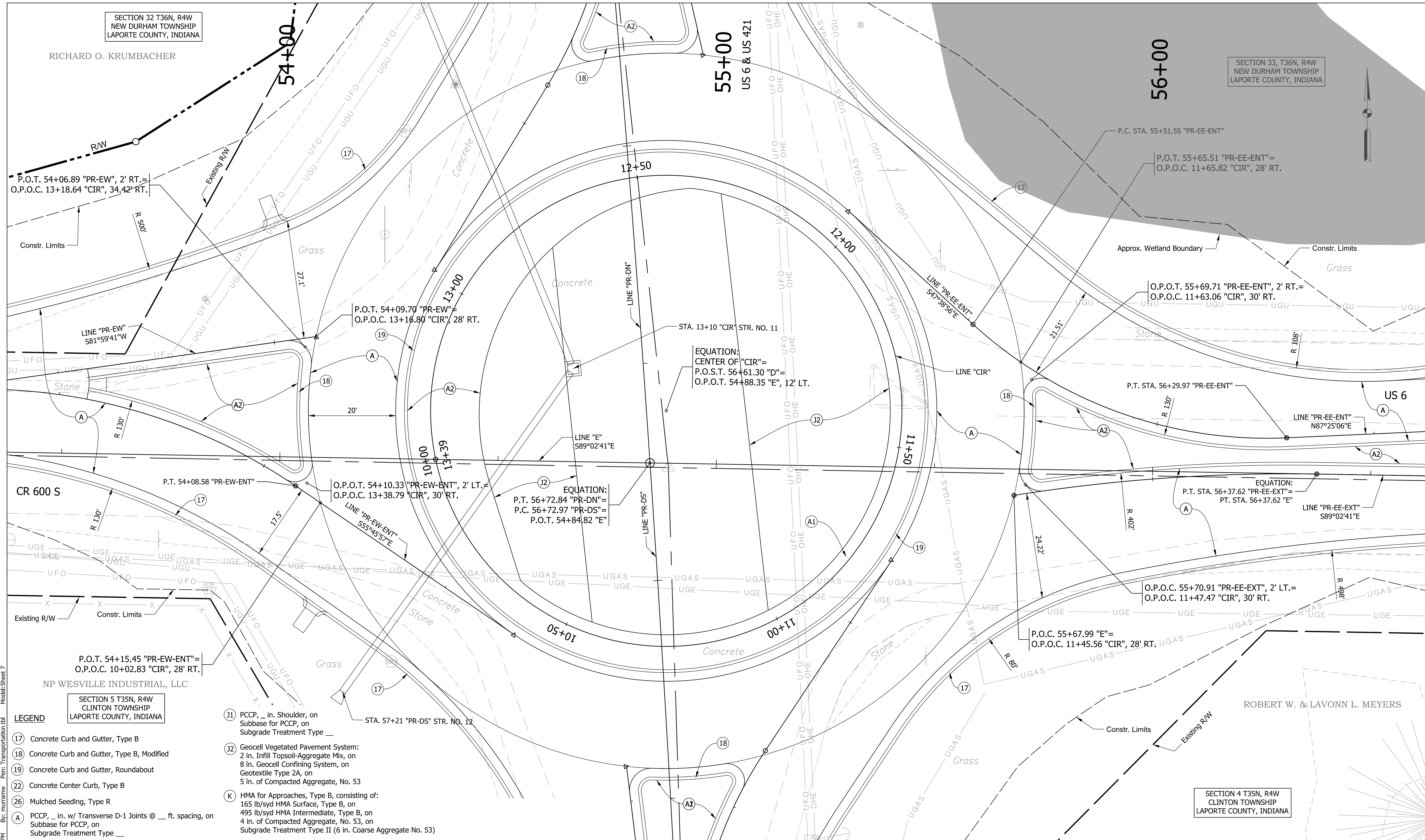
CONSTRUCTION DETAILS
50+50 TO 53+50 LINES "E",
"PR-EW", & "PR-EW-ENT"

SCALE 1" = 10'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 26 of 59
CONTRACT R-43059	PROJECT 1702989

SECTION 32 T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA

RICHARD O. KRUMBACHER

SECTION 33, T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA



Plc1:1/19/2022 2:38:50 PM By: murrainw Per: Transportation.tbl Model:Sheet 7

- LEGEND**
- (17) Concrete Curb and Gutter, Type B
 - (18) Concrete Curb and Gutter, Type B, Modified
 - (19) Concrete Curb and Gutter, Roundabout
 - (22) Concrete Center Curb, Type B
 - (26) Mulched Seeding, Type R
 - (A) PCCP, in. w/ Transverse D-1 Joints @ ft. spacing, on Subbase for PCCP, on Subgrade Treatment Type
 - (A1) Truck Apron PCCP, in. w/ Transverse D-1 Joints @ ft. spacing, on Subbase for PCCP, on Subgrade Treatment Type
 - (A2) PCCP, 7 in., on Subbase for PCCP, on Subgrade Treatment Type IC
 - (J1) PCCP, in. Shoulder, on Subbase for PCCP, on Subgrade Treatment Type
 - (J2) Geocell Vegetated Pavement System: 2 in. Infill Topsoil-Aggregate Mix, on 8 in. Geocell Confining System, on Geotextile Type 2A, on 5 in. of Compacted Aggregate, No. 53
 - (K) HMA for Approaches, Type B, consisting of: 165 lb/syd HMA Surface, Type B, on 495 lb/syd HMA Intermediate, Type B, on 4 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
 - (O) in. of Compacted Aggregate, No. 53
 - (R) HMA for Approaches, Type B, consisting of: 165 lb/syd HMA Surface, Type B, on 1 1/2" Asphalt Surface Milling
 - (U) Pipe, 6 in., Type 4



RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	DATE
DESIGNED: JJV	DRAWN: KTH		
CHECKED: REW	CHECKED: JJV		

INDIANA DEPARTMENT OF TRANSPORTATION	
CONSTRUCTION DETAILS 53+50 TO 56+50 LINES "E", "CIR", "PR-EW", "PR-EW-ENT", "PR-EE-ENT", & "PR-EE-EXT"	

SCALE 1" = 10'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 27 of 59
CONTRACT R-43059	PROJECT 1702989

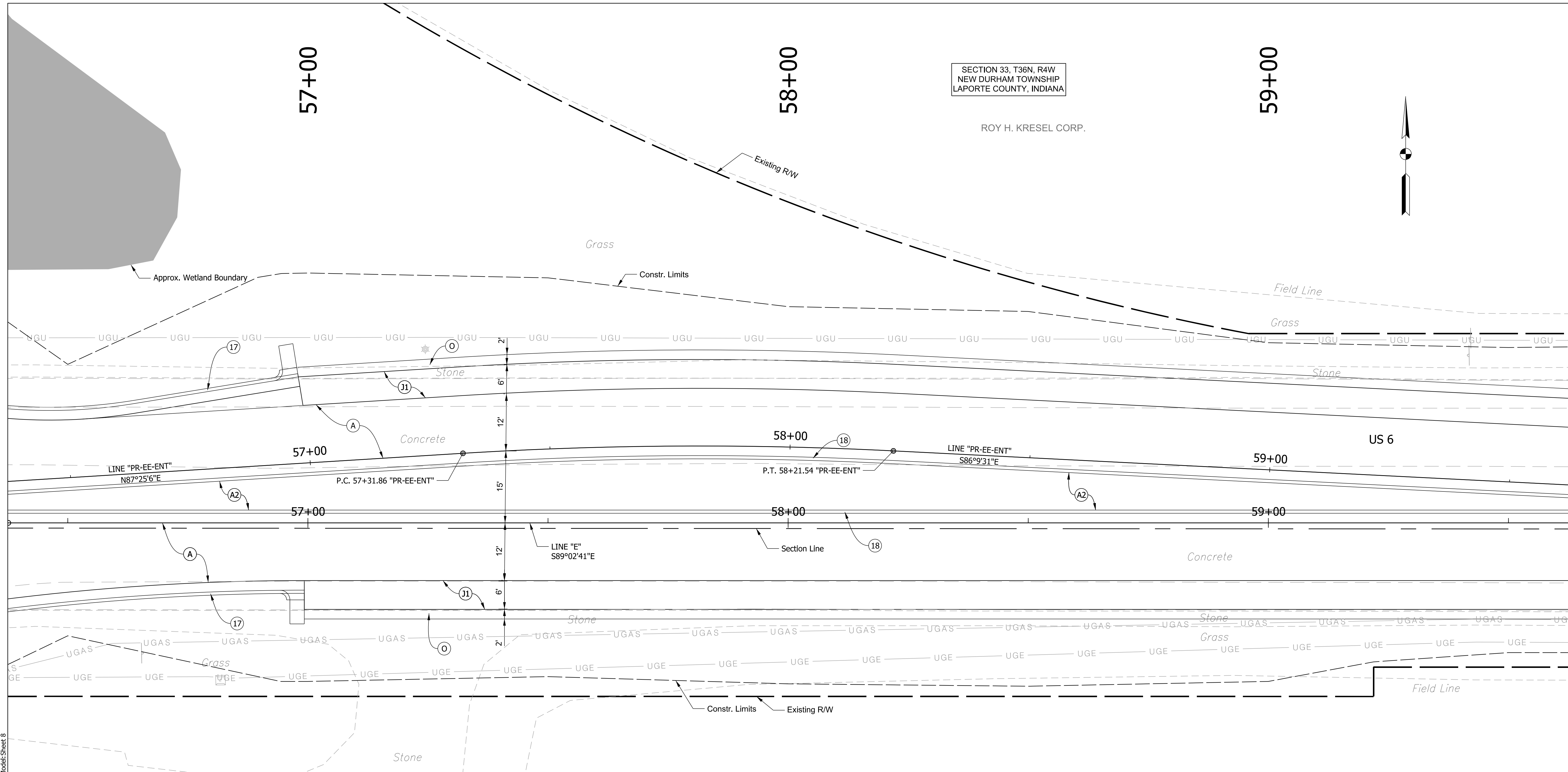
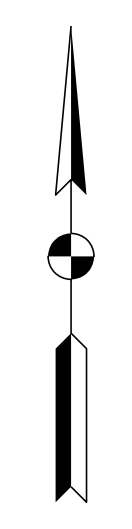
57+00

58+00

59+00

SECTION 33, T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA

ROY H. KRESEL CORP.



Model: Sheet 8
Per: Transportation.tbl
By: murramw
2:38:50 PM
P1: 1/19/2022

- LEGEND**
- (17) Concrete Curb and Gutter, Type B
 - (18) Concrete Curb and Gutter, Type B, Modified
 - (19) Concrete Curb and Gutter, Roundabout
 - (22) Concrete Center Curb, Type B
 - (26) Mulched Seeding, Type R
 - (A) PCCP, _ in. w/ Transverse D-1 Joints @ _ ft. spacing, on Subbase for PCCP, on Subgrade Treatment Type __
 - (A1) Truck Apron PCCP, _ in. w/ Transverse D-1 Joints @ _ ft. spacing, on Subbase for PCCP, on Subgrade Treatment Type __
 - (A2) PCCP, 7 in., on Subbase for PCCP, on Subgrade Treatment Type IC

- (J1) PCCP, _ in. Shoulder, on Subbase for PCCP, on Subgrade Treatment Type __
- (J2) Geocell Vegetated Pavement System: 2 in. Infill Topsoil-Aggregate Mix, on 8 in. Geocell Confining System, on Geotextile Type 2A, on 5 in. of Compacted Aggregate, No. 53
- (K) HMA for Approaches, Type B, consisting of: 165 lb/syd HMA Surface, Type B, on 495 lb/syd HMA Intermediate, Type B, on 4 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
- (O) _ in. of Compacted Aggregate, No. 53
- (R) HMA for Approaches, Type B, consisting of: 165 lb/syd HMA Surface, Type B, on 1 1/2" Asphalt Surface Milling
- (U) Pipe, 6 in., Type 4

ROBERT W. & LAVONN L. MEYERS

SECTION 4 T35N, R4W
CLINTON TOWNSHIP
LAPORTE COUNTY, INDIANA



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JJV	DRAWN: KTH	
CHECKED: REW	CHECKED: JJV	

INDIANA DEPARTMENT OF TRANSPORTATION	
CONSTRUCTION DETAILS 56+50 TO 59+50 LINE "E" & "PR-EE-ENT"	

SCALE 1" = 10'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 28 of 59
CONTRACT R-43059	PROJECT 1702989

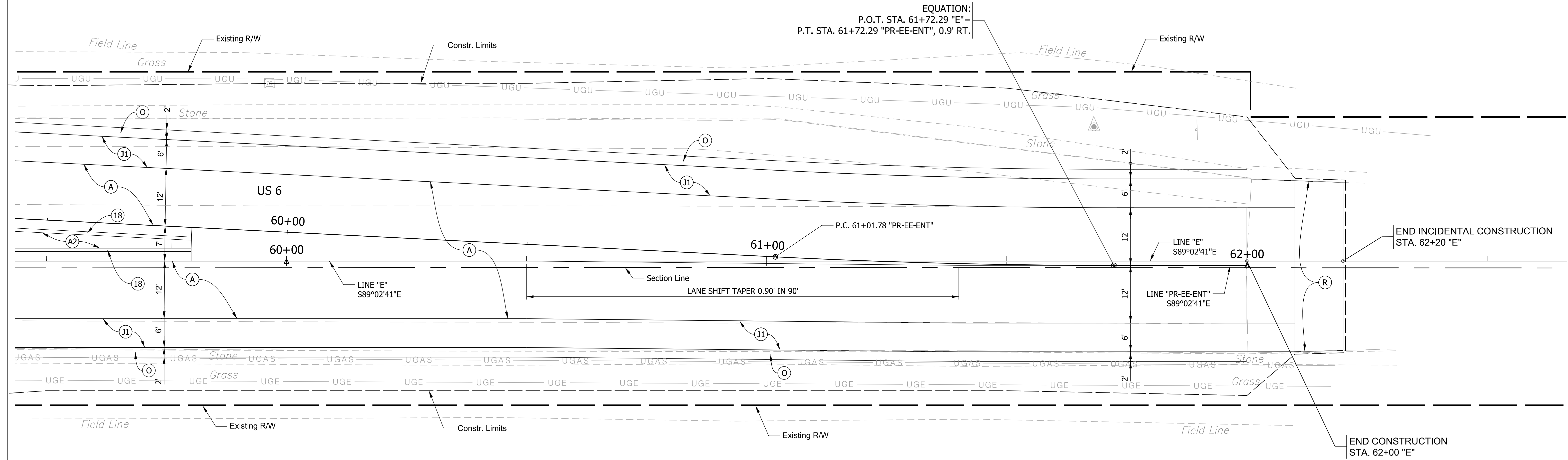
60+00

SECTION 33, T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA

61+00

ROY H. KRESEL CORP.

62+00



EQUATION:
 P.O.T. STA. 61+72.29 "E" =
 P.T. STA. 61+72.29 "PR-EE-ENT", 0.9' RT.

ROBERT W. & LAVONN L. MEYERS

SECTION 4 T35N, R4W
 CLINTON TOWNSHIP
 LAPORTE COUNTY, INDIANA

LEGEND

- (17) Concrete Curb and Gutter, Type B
- (18) Concrete Curb and Gutter, Type B, Modified
- (19) Concrete Curb and Gutter, Roundabout
- (22) Concrete Center Curb, Type B
- (26) Mulched Seeding, Type R
- (A) PCCP, _ in. w/ Transverse D-1 Joints @ _ ft. spacing, on Subbase for PCCP, on Subgrade Treatment Type _
- (A1) Truck Apron PCCP, _ in. w/ Transverse D-1 Joints @ _ ft. spacing, on Subbase for PCCP, on Subgrade Treatment Type _
- (A2) PCCP, 7 in., on Subbase for PCCP, on Subgrade Treatment Type IC
- (J1) PCCP, _ in. Shoulder, on Subbase for PCCP, on Subgrade Treatment Type _
- (J2) Geocell Vegetated Pavement System: 2 in. Infill Topsoil-Aggregate Mix, on 8 in. Geocell Confining System, on Geotextile Type 2A, on 5 in. of Compacted Aggregate, No. 53
- (K) HMA for Approaches, Type B, consisting of: 165 lb/syd HMA Surface, Type B, on 495 lb/syd HMA Intermediate, Type B, on 4 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
- (O) _ in. of Compacted Aggregate, No. 53
- (R) HMA for Approaches, Type B, consisting of: 165 lb/syd HMA Surface, Type B, on 1 1/2" Asphalt Surface Milling
- (U) Pipe, 6 in., Type 4



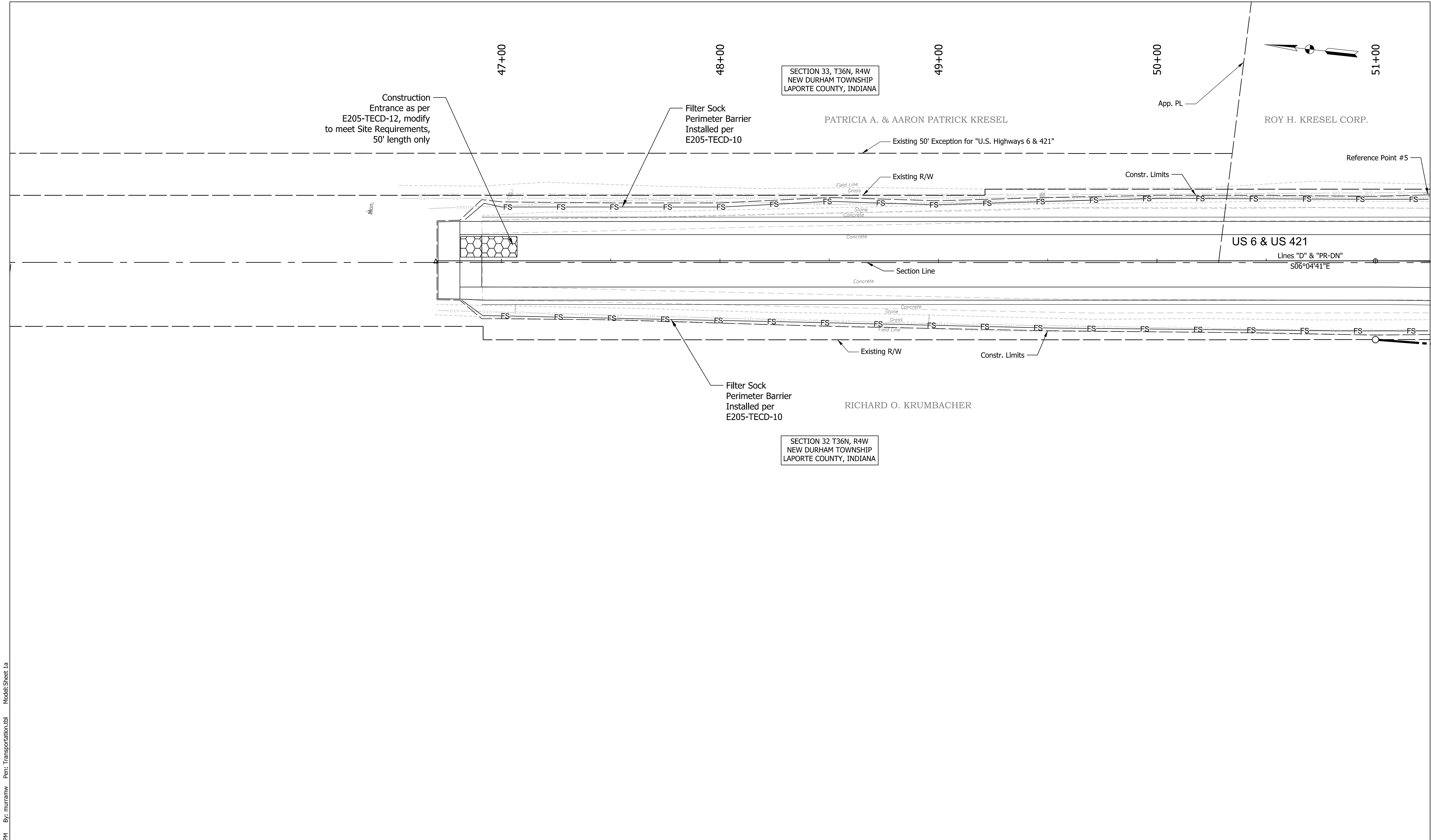
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JJV	DRAWN: KTH	
CHECKED: REW	CHECKED: JJV	

INDIANA
DEPARTMENT OF TRANSPORTATION

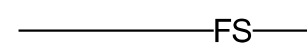

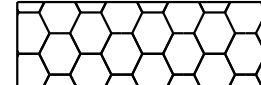
CONSTRUCTION DETAILS
59+50 TO 62+50 LINES "E" & "PR-EE-ENT"

SCALE 1" = 10'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 29 of 59
CONTRACT R-43059	PROJECT 1702989

Pict:1/19/2022 2:38:52 PM By: murramw Per: Transportation.tbl Model:Sheet 9



Pict:1/19/2022 2:38:57 PM By: mramm Per: Transportation.tbl Model:Sheet 1a

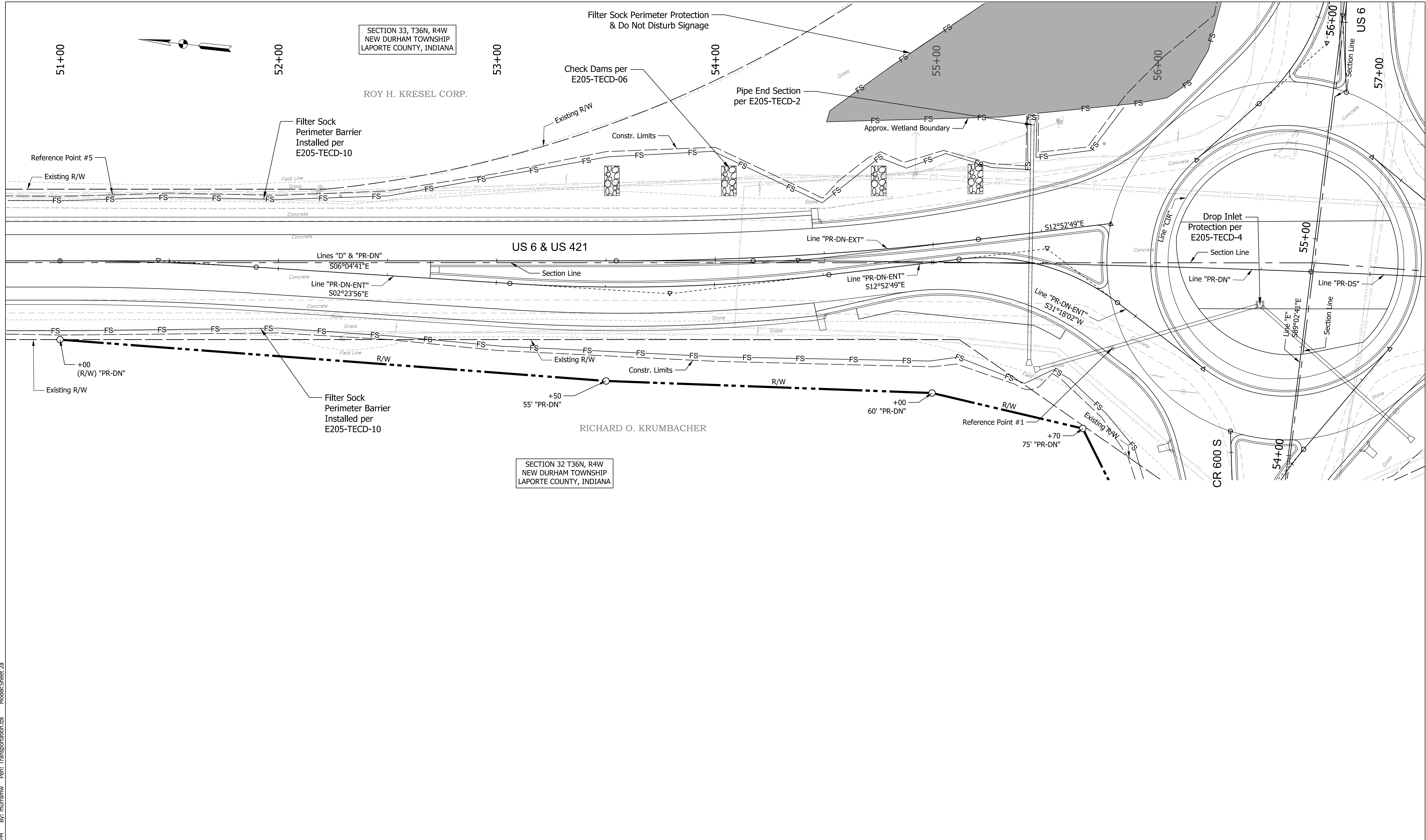
LEGEND	
	- Filter Sock
	- Check Dam (Rivetment Riprap)
	- Temporary Construction Entrance



RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JJV _____	DRAWN: MWM _____	
CHECKED: REW _____	CHECKED: JJV _____	

INDIANA DEPARTMENT OF TRANSPORTATION	
EROSION CONTROL DETAILS LINES "D", "PR-DN", & "PR-DN-ENT"	

SCALE 1" = 20'	BRIDGE FILE
1" = 5'	DESIGNATION 1702989
SURVEY BOOK	SHEETS 30 of 59
CONTRACT R-43059	PROJECT 1702989



P1011/19/2022 2:39:00 PM By: murramw Per: Transportation.tbl Model: Sheet 2a

LEGEND

FS - Filter Sock

- Check Dam (Revetment Riprap)

- Temporary Construction Entrance

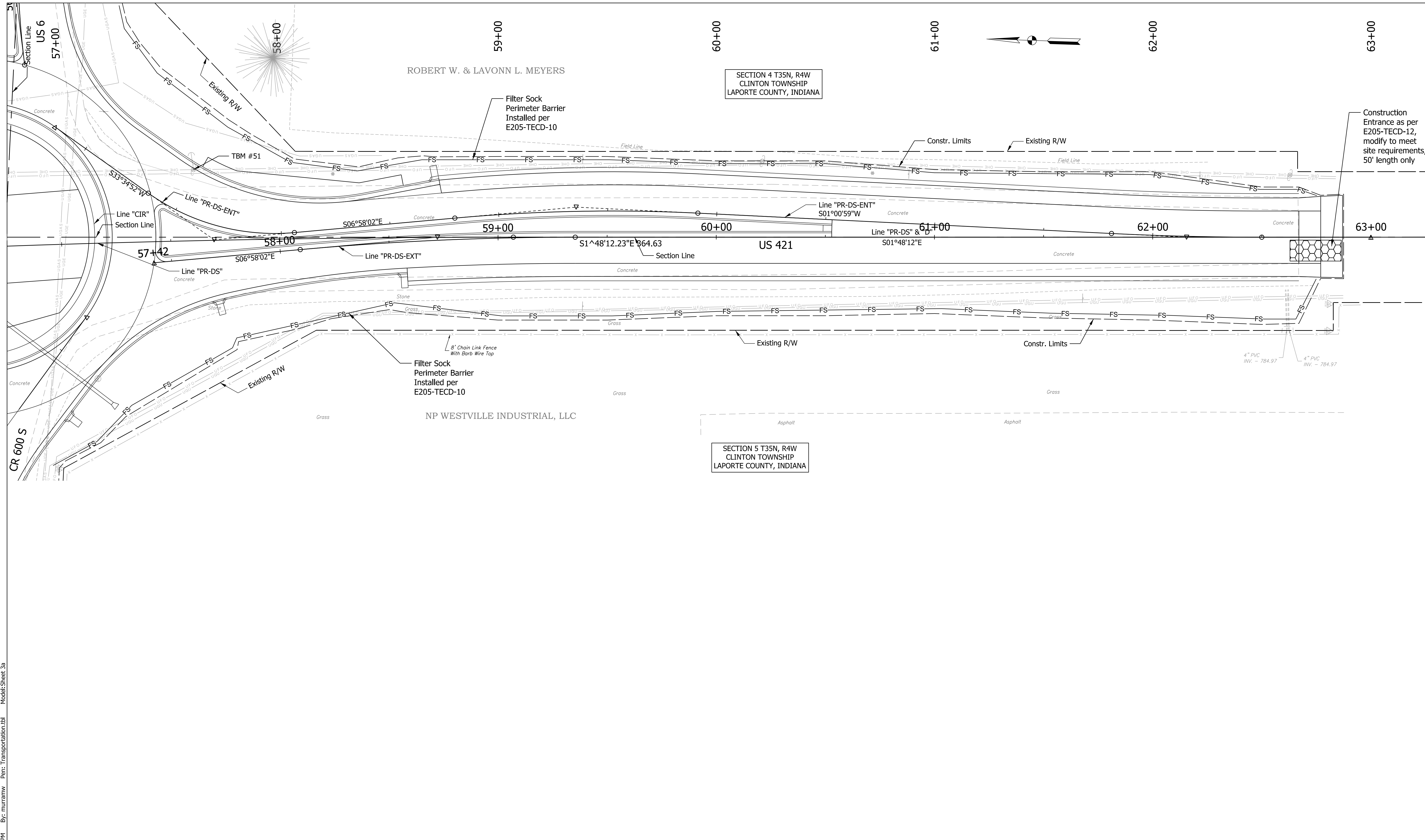


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JJV	DRAWN: MWM	
CHECKED: REW	CHECKED: JJV	

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS
LINES "D", "PR-DN", & "PR-DN-ENT"

SCALE	BRIDGE FILE
1" = 20'	
DESIGNATION	
1" = 5'	1702989
SURVEY BOOK	SHEETS
	31 of 59
CONTRACT	PROJECT
R-43059	1702989



2:39:01 PM By: mramm Per: Transportation.tbl Model: Sheet 2a
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LEGEND

- Filter Sock
- Check Dam (Revetment Riprap)
- Temporary Construction Entrance



RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	DESIGNED: JJV DRAWN: MWM CHECKED: REW CHECKED: JJV
--	---

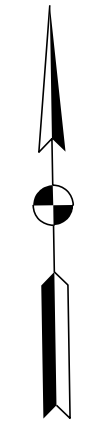
INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS
LINES "D", "PR-DS", & "PR-DS-ENT"

SCALE	BRIDGE FILE
1" = 20'	
1" = 5'	DESIGNATION
	1702989
SURVEY BOOK	SHEETS
	32 of 59
CONTRACT	PROJECT
R-43059	1702989

SECTION 33, T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA

ROY H. KRESEL CORP.



60+00

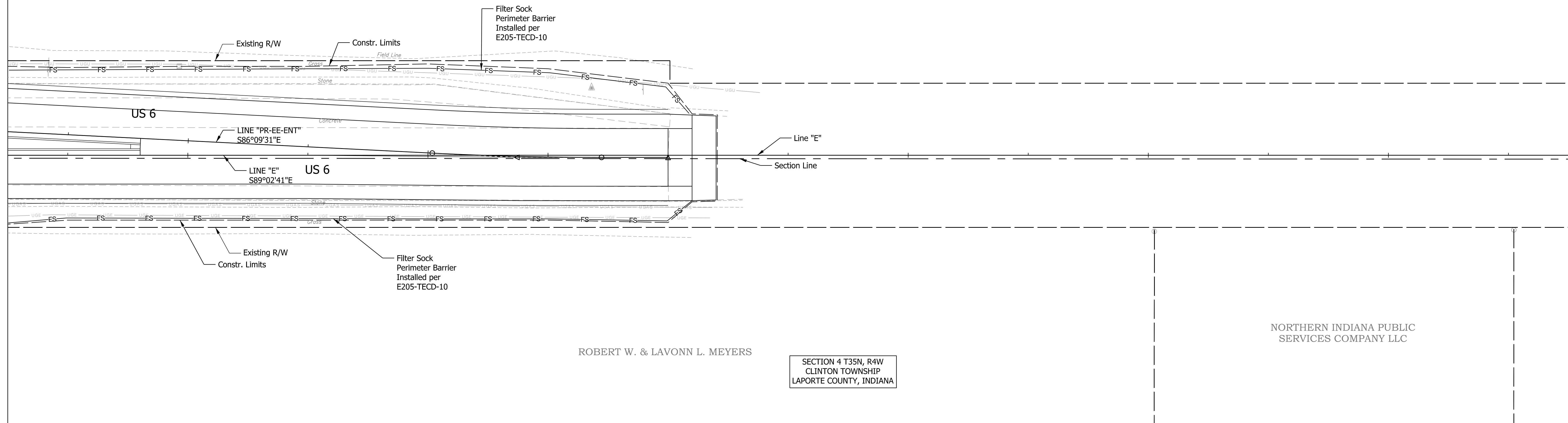
61+00

62+00

63+00

64+00

65+00



NORTHERN INDIANA PUBLIC
SERVICES COMPANY LLC

ROBERT W. & LAVONN L. MEYERS

SECTION 4 T35N, R4W
CLINTON TOWNSHIP
LAPORTE COUNTY, INDIANA

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LEGEND

- Filter Sock
- Check Dam (Revetment Riprap)
- Temporary Construction Entrance



RECOMMENDED FOR APPROVAL _____	
DESIGN ENGINEER	DATE
DESIGNED: JJV _____	DRAWN: MWM _____
CHECKED: REW _____	CHECKED: JJV _____

**INDIANA
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL DETAILS
LINES "E" & "PR-EE-ENT"**

SCALE 1" = 20'	BRIDGE FILE
1" = 5'	DESIGNATION 1702989
SURVEY BOOK	SHEETS 33 of 59
CONTRACT R-43059	PROJECT 1702989

PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION	DESCRIPTION APPROACH TYPE/CLASS OR LEGEND ITEM	WIDTH (BEGIN) FT	WIDTH (END) FT	WIDTH (AVERAGE) FT	LENGTH FT	AREA SFT	RADIUS	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE			GRADE % 1 % 2	PAVEMENT REMOVAL SYS	MILLING, ASPHALT, 1-1/2 IN. SYS	PCCP, 11 IN. SYS	PCCP, 7 IN. SYS	HMA MATERIALS					TACK COAT SYS	COMPACTED AGGREGATE NO. 53					SUBBASE FOR PCCP CYS	GEOCELL VEGETATED PAVEMENT SYSTEM SYS	SUBGRADE TREATMENT, TYPE IC SYS	SUBGRADE TREATMENT, TYPE II SYS	CURB AND GUTTER, CONCRETE, TYPE B LFT	CURB AND GUTTER, CONCRETE, TYPE B, MODIFIED LFT	CURB AND GUTTER, CONCRETE, MODIFIED (ROUNDABOUT) LFT	CURB AND GUTTER, TURNOUT CONCRETE LFT	CONCRETE GUTTER, TYPE A LFT	REMARKS				
									COMPACTED AGGREGATE BASE SYS	HMA SYS	CONCRETE SYS						HMA SURFACE, TYPE B, 9.5 mm SYS	HMA INTERMEDIATE, TYPE B, 19.0 mm SYS	HMA BASE, TYPE B, 19.0 mm SYS	DEPTH IN. 4 5 11 9 17 CYS CYS CYS CYS CYS																					
CR 600 S																																									
Lines E, PR-EW, & PR-EW-ENT																																									
52+89.0	54+00.0					111.0							384																										Area measured in CADD		
51+00.0	51+50.0	CT	R	21.2	21.6	21.4	50.0							119				119						119.0														Area measured in CADD			
51+00.0	51+50.0	CT	K				50.0											38	38																						
51+50.0	52+76.2	RT	A	14	14	14.0	126.2																																		
51+50.0	52+76.2	LT	A	14	14	14.0	126.2																																		
51+50.0	52+76.2	RT	O	1	1	1.0	126.2																																		
				0	0.33	0.2	126.2																																		
51+50.0	52+76.2	LT	O	1	1	1.0	126.2																																		
				0	0.33	0.2	126.2																																		
52+76.2	54+10.3	RT	A	12	17.5	14.8	134.2																																		
52+76.2	54+06.9	LT	A	12	25	18.5	130.7																																		
52+76.2	54+10.3	RT	18			2.7	134.2																																		
52+76.2	54+06.9	LT	18			2.7	130.7																																		
	54+02.9	CT	18			2.7	23.0																																		
52+76.2	54+10.3	RT	17			2.7	134.2																																		
52+76.2	54+06.9	LT	17			2.7	130.7																																		
53+14.2	53+56.8	CT	A	0	7	3.5	42.6																																		
53+56.8	54+02.9	CT	A2				46.1																																		
		LT	26																																						
		RT	26				5439																																		
	52+78.0	LT																																							
	52+78.0	RT																																							
	54+05.0	LT																																							
	54+28	RT																																							
US 6, East Leg																																									
Lines PR-EE-ENT, PR-EE-EXT, & E																																									
55+50.0	62+00.0		removal																																						Area measured in CADD
55+69.7	59+80.1	LT	18			2.67	410.4																																		
55+70.9	59+80.2	RT	18			2.67	409.2																																		
	55+74.8	CT	18			2.67	16.5																																		
55+69.7	56+98.6	LT	A	21.5	12	16.8	128.9																																		
55+70.9	56+99.3	RT	A	24.2	12	18.1	128.3																																		
55+69.7	56+98.6	LT	17			2.67	128.9																																		
55+70.9	56+99.3	RT	17			2.67	128.3																																		
55+74.8	59+80.2	CT	A2				405.4																																		
59+80.2	61+72.6	CT	A	7	0	3.5	192.4																																		
56+98.6	62+10.0	LT	A	12	12	12.0	511.4																																		
56+99.3	62+10.0	RT	A	12	12	12.0	510.8																																		
56+98.6	62+10.0	LT	J1	6	6	6.0	511.4																																		
56+99.3	62+10.0	RT	J1	6	6	6.0	510.8																																		
56+98.6	62+10.0	LT	O	2	2	2.0	511.4																																		
		O	0	0.3	0.2	511.4	77																																		
56+99.3	62+10.0	RT	O	2	2	2.0	510.8																																		
		O	0	0.3	0.2	510.8	77																																		
		LT	26				27662																																		
		RT	26				10037																																		
	56+97.0	LT																																							
	56+98.0	RT																																							
Roundabout																																									
Line CIR																																									
10+00.0	13+39.3	A1				339.3	3501																																		
10+00.0	13+39.3	19				2.67	339.3																																		
10+00.0	13+39.3	A					339.3																																		

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION			SIZE	PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	STR. RIM ELEVATION	LENGTH	SKEW	COVER	FLOW LINE		SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	BACKFILL TYPE	STRUCTURE BACKFILL	CLASS 2 RIPRAP	GEOTEXTILE FOR RIPRAP TYPE 1A	PIPE END SECTION	GRATED BOX END SECTION		SAFETY METAL END SECTION		CONCRETE ANCHOR	CONNECT TO STRUCTURE NUMBER	REMARKS										
	STATION	LEFT	RIGHT								CROSS	UPSTREAM										DOWNSTREAM	ELEV.	ELEV.	YR.				CU. YD.	TON	SYS.	EA.	TYPE	SLOPE	EA.	SLOPE	EA.	EA.
10	55+44 "PR-DN"			X	18	1		112			790.25	789.96	75	NA	8	1	1				2								Remove Exist. 15" CMP									
11	13+05 "CIR"	30.6'			18	2		104			790.55	790.28	75	NA	8	1	1				1								OUTFALL									
12	57+21 "PR-DS"		74.3'		18	2		90			790.78	790.55	75	NA	8	1	1				1								11									

Pict:1/19/2022 2:40:08 PM By: muramw Per: Transportation.tbl Model: Misc. Tables



RECOMMENDED FOR APPROVAL _____
 DESIGN ENGINEER DATE
 DESIGNED: JJV DRAWN: ZJM
 CHECKED: REW CHECKED: REW

INDIANA
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS TABLES

SCALE	BRIDGE FILE
None	
	DESIGNATION
	1702989
SURVEY BOOK	SHEETS
	36 of 59
CONTRACT	PROJECT
R-43059	1702989