

**Attachment 7**

**Revised Plans – Pages 1-51**



PROJECT 1382612	DESIGNATION 1382612
CONTRACT R-36260	BRIDGE FILE

# INDIANA DEPARTMENT OF TRANSPORTATION

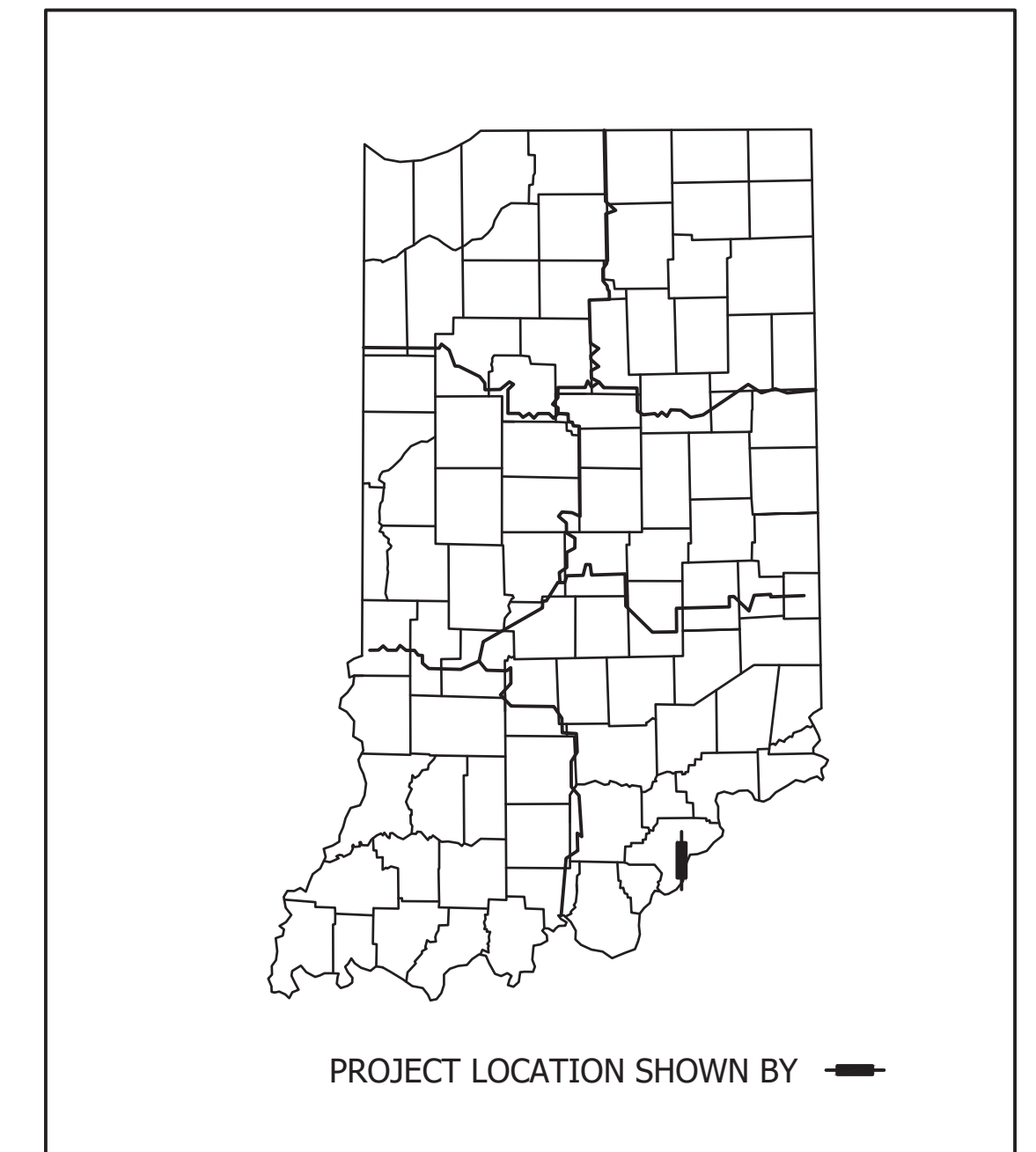


# ROAD PLANS THE HEAVY HAUL TRANSPORTATION CORRIDOR DES. NO. 1382612

New road construction to support development of the River Ridge Commerce Center and the Port of Indiana located in Survey 15 & 16 of the Illinois Grant, Utica Township, Clark County, Indiana.

Gross Length: 1.48 MI.  
Net Length: 1.42 MI.  
Maximum Grade: 5.0 %

TRAFFIC DATA		TRANSPORTATION CORRIDOR
A.D.T. (2020)		8,800 V.P.D.
A.D.T. (2040)		16,700 V.P.D.
DIRECTIONAL DISTRIBUTION		50%
TRUCKS A.D.T.T. (2020)		2,552 V.P.D.
A.D.T.T. (2040)		4,843 V.P.D.
DESIGN DATA		
DESIGN SPEED		35 M.P.H.
PROJECT DESIGN CRITERIA		NEW CONSTRUCTION (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION		MINOR ARTERIAL
RURAL/URBAN		URBAN (SUBURBAN)
TERRAIN		ROLLING
ACCESS CONTROL		NONE

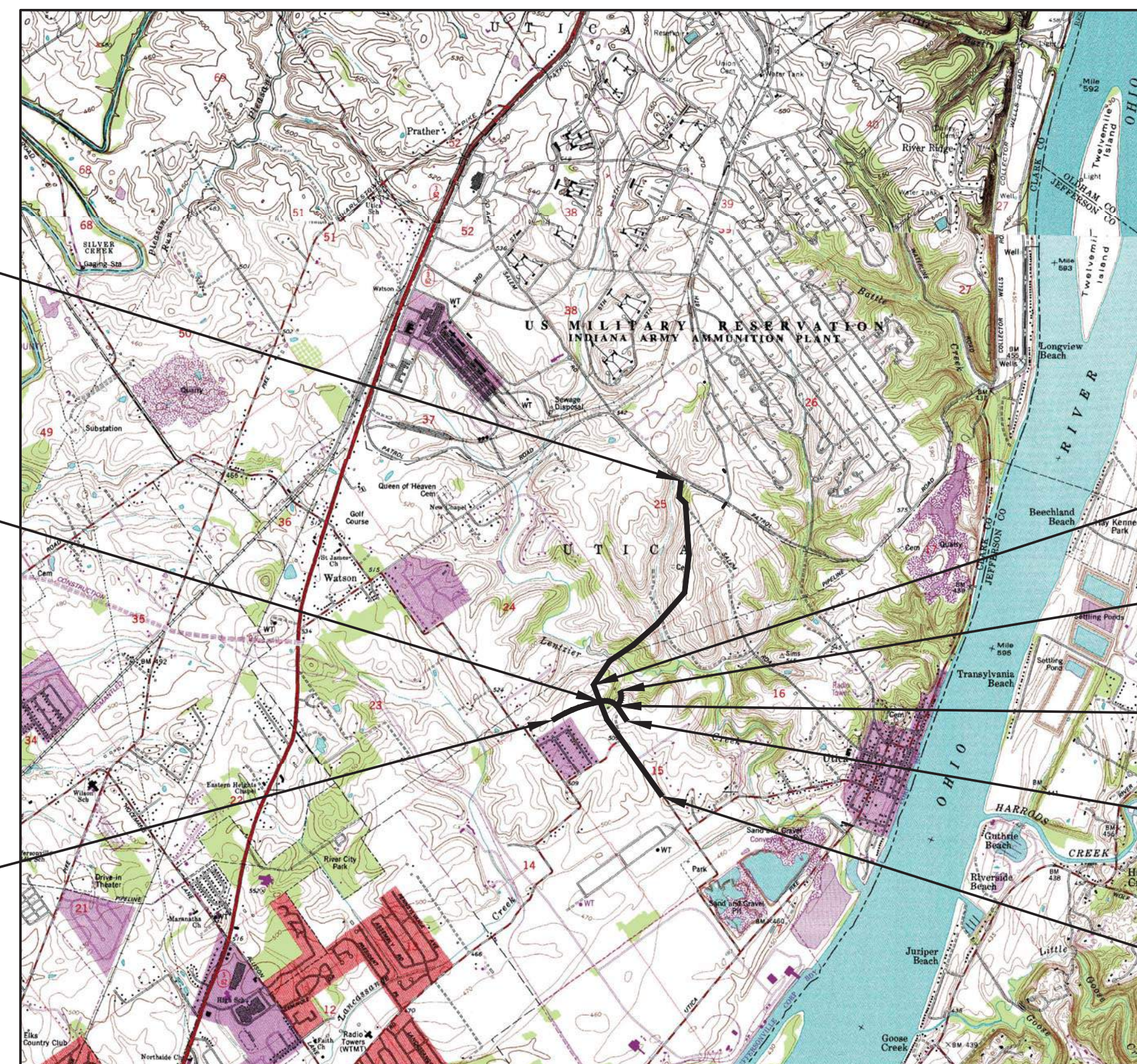


LATITUDE: 38°20'17"N LONGITUDE: 85°40'12"W

END PROJECT  
HEAVY HAUL CORRIDOR  
88+44.24 LINE "PR-DE"

END CONSTRUCTION  
407+79.65 LINE "PR-NM"

BEGIN CONSTRUCTION  
400+00.00 LINE "PR-NM"



SCALE: 1"=4000'

BEGIN CONSTRUCTION  
505+43.81 LINE "PR-UC"

END CONSTRUCTION  
904+18.31 LINE "PR-UC"

BEGIN CONSTRUCTION  
900+12.05 LINE "PR-UC"

BEGIN CONSTRUCTION  
500+00.00 LINE "PR-US"

BEGIN PROJECT  
HEAVY HAUL CORRIDOR  
16+00.00 LINE "PR-DE"

[INDIANA DEPARTMENT OF TRANSPORTATION  
STANDARD SPECIFICATIONS DATED 2018 TO BE  
USED WITH THESE PLANS]

File Name: P:\C3D\14-402\Road\Drawings\Line DE\Title Sheet Line DE.dwg Plot Date: 9/18/2018 Plotted By: Wolka, Andy



1625 N. Post Road  
Indianapolis, Indiana 46219  
Phone: 317-895-2585  
Fax: 317-895-2596 Web: www.ucindy.com

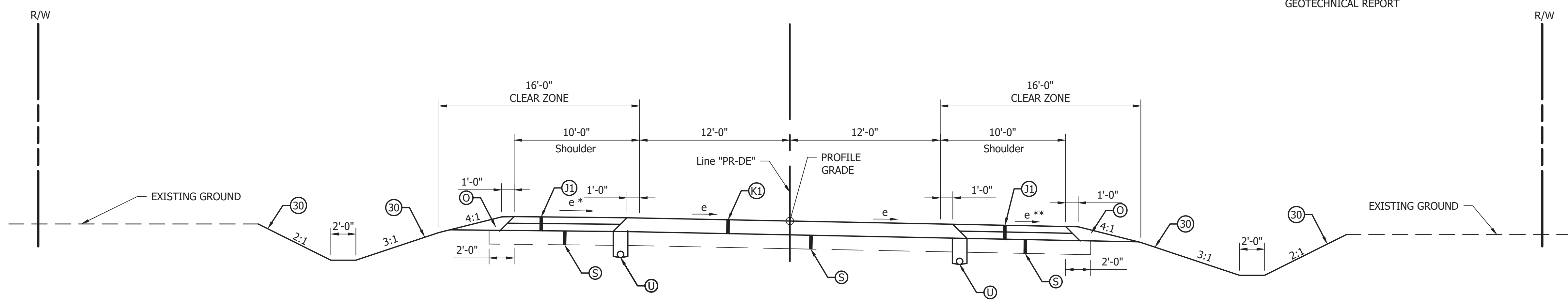
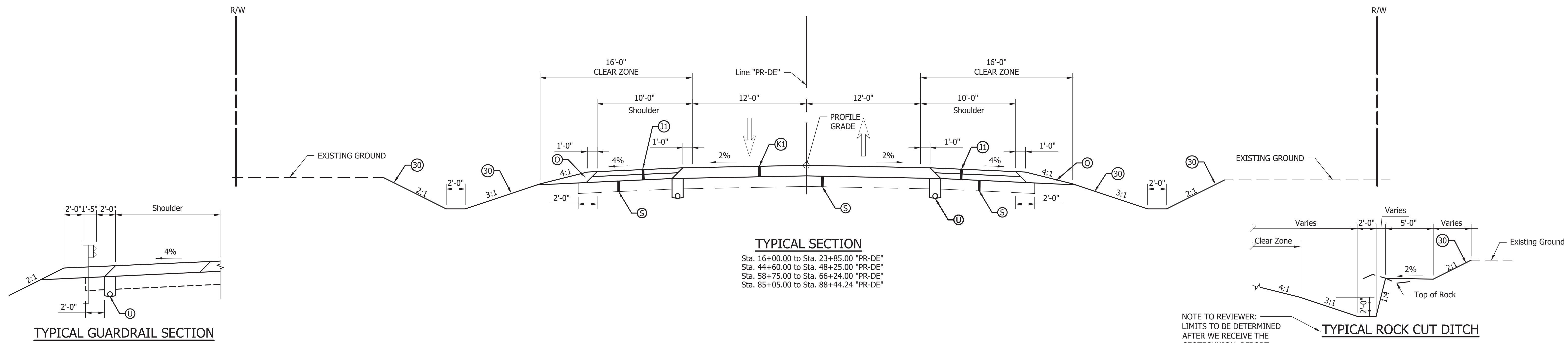
PLANS PREPARED BY:	UNITED CONSULTING	(317) 895-2585 PHONE NUMBER
CERTIFIED BY:		DATE
APPROVED FOR LETTING:	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

	BRIDGE FILE
	DESIGNATION 1382612
SURVEY BOOK	SHEETS
	---- of ----
CONTRACT R-36260	PROJECT 1382612



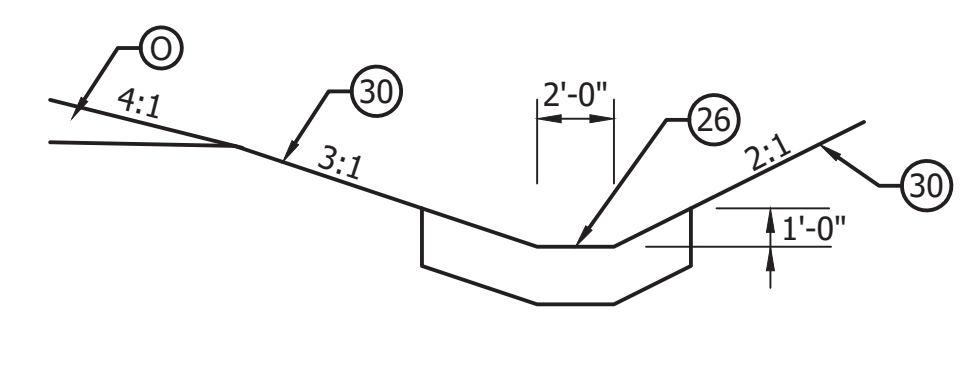
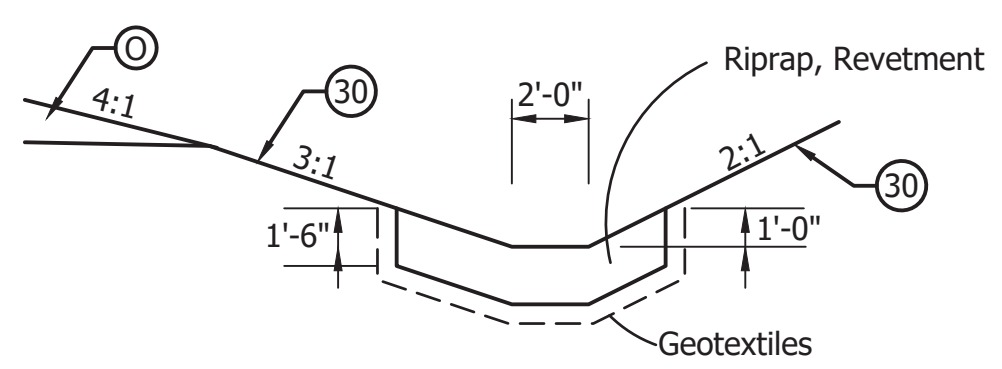
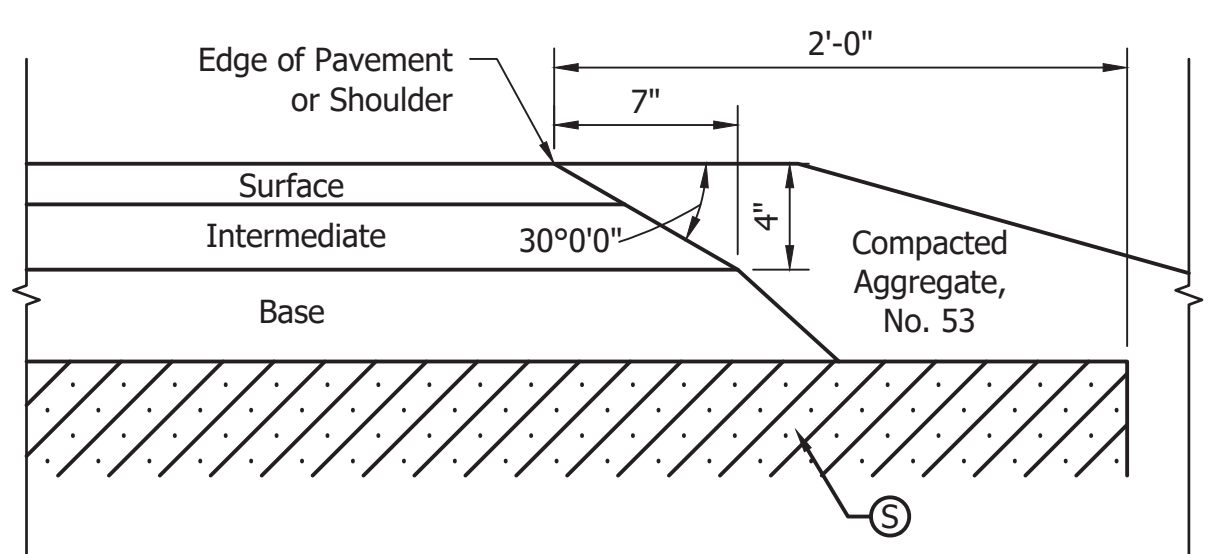


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\* High Side Shoulder - If e is 4% or less, grade shoulder at 4% down.  
 If e is greater than 4% and less than or equal to 6%, grade shoulder at 2% down.  
 If e greater than 6%, grade shoulder at 1% up.

\*\* Low Side Shoulder - If e is 4% or less, grade shoulder at 4% down.  
 If e is greater than 4%, grade shoulder in plane with the mainline pavement.



- LEGEND**
- (K1) Full-Depth Pavement  
 165#/syd QC/QA-HMA, 4, 76, Surface, 9.5mm  
 275#/syd QC/QA-HMA, 4, 76, Intermediate, 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm  
 250#/syd QC/QA-HMA, 5, 76, Intermediate, OG 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm
  - (J1) Full-Depth Shoulder  
 165#/syd QC/QA-HMA, 4, 76, Surface, 9.5mm  
 495#/syd QC/QA-HMA, 4, 76, Intermediate, 19.0mm  
 8.5" Compacted Aggregate, No. 53
  - (O) Compacted Aggregate, No. 53
  - (S) Subgrade Treatment, Type IB (Lime)
  - (U) Underdrains
  - (30) Seeding, U
  - (26) Sodding



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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JRA	DRAWN: EAM	
CHECKED: MAT	CHECKED: MAT	

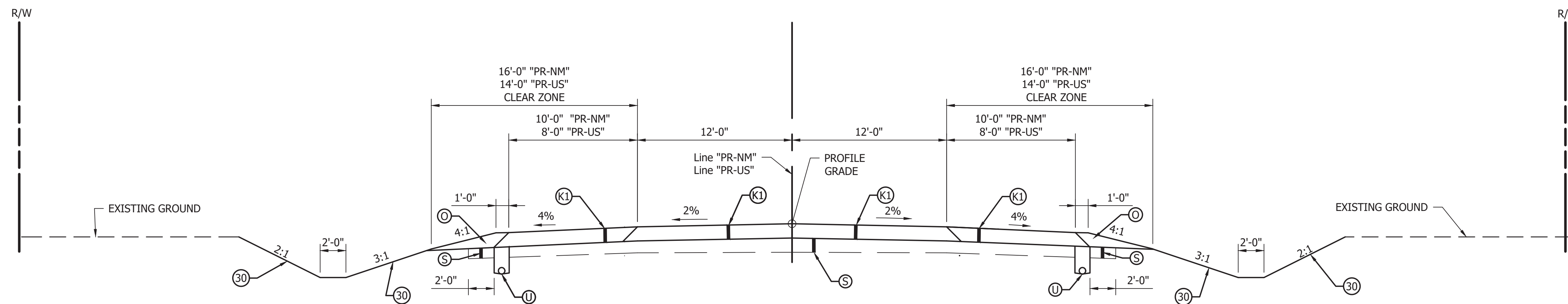
INDIANA  
 DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS  
 TRANSPORTATION CORRIDOR

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	XX
VERTICAL SCALE	DESIGNATION
1" = 5'	1382612
SURVEY BOOK	SHEETS
	3 of XX
CONTRACT	PROJECT
R-36260	1382612

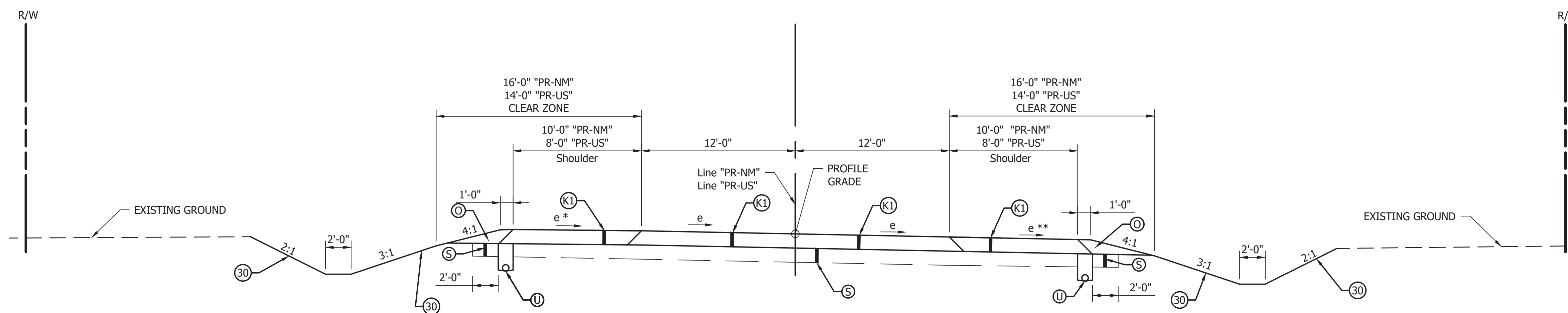


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**TYPICAL SECTION**

Sta. 400+00.00 to Sta. 400+60.00 "PR-NM"  
 Sta. 405+35.00 to Sta. 406+80.43 "PR-NM"  
 Sta. 500+00.00 to Sta. 501+00.00 "PR-US"



**SUPERELEVATION SECTION**

**LINE "PR-NM", PR-US**

Sta. 400+60.00 to Sta. 405+35.00 "PR-NM"  
 Sta. 406+80.43 to Sta. 407+79.65 "PR-NM"  
 Sta. 501+00.00 to Sta. 505+43.81 "PR-US"

Curve to the right shown, curves to the left reversed.

- \* High Side Shoulder - If e is 4% or less, grade shoulder at 4% down.  
 If e is greater than 4% and less than or equal to 6%, grade shoulder at 2% down.  
 If e greater than 6%, grade shoulder at 1% up.
- \*\* Low Side Shoulder - If e is 4% or less, grade shoulder at 4% down.  
 If e is greater than 4%, grade shoulder in plane with the mainline pavement.

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 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm  
 250#/syd QC/QA-HMA, 5, 76, Intermediate, OG 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm
- (J1) Full-Depth Shoulder  
 165#/syd QC/QA-HMA, 4, 76, Surface, 9.5mm  
 495#/syd QC/QA-HMA, 4, 76, Intermediate, 19.0mm  
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- (S) Subgrade Treatment, Type IB (Lime)
- (U) Underdrains
- (30) Seeding, U



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DESIGNED: JRA	DRAWN: EAM		
CHECKED: MAT	CHECKED: MAT		

INDIANA  
 DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS  
 TRANSPORTATION CORRIDOR

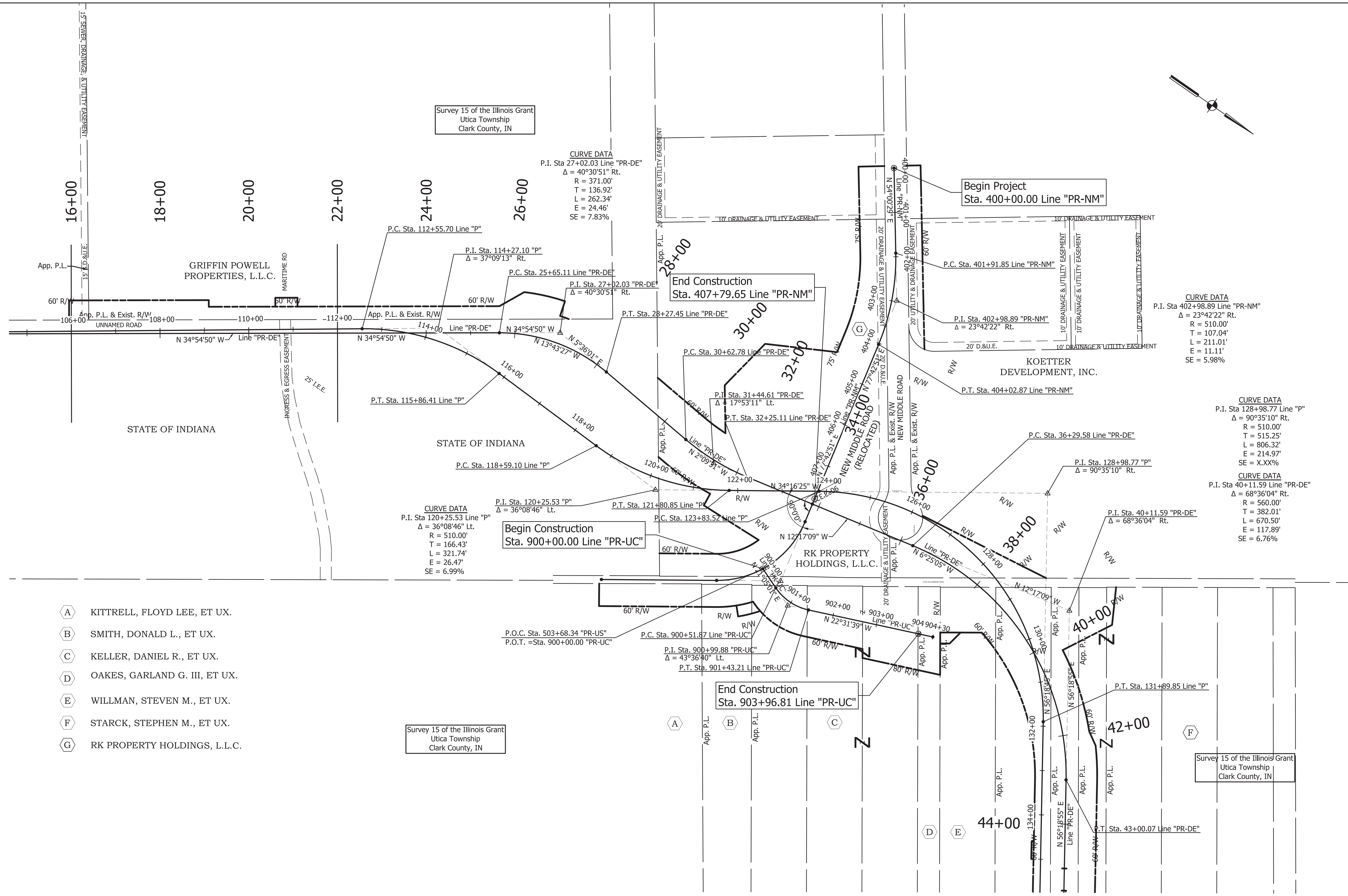
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VERTICAL SCALE 1" = 5'	DESIGNATION 1382612
SURVEY BOOK	SHEETS 4 of XX
CONTRACT R-36260	PROJECT 1382612







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- (A) KITTRELL, FLOYD LEE, ET UX.
- (B) SMITH, DONALD L., ET UX.
- (C) KELLER, DANIEL R., ET UX.
- (D) OAKES, GARLAND G. III, ET UX.
- (E) WILLMAN, STEVEN M., ET UX.
- (F) STARCK, STEPHEN M., ET UX.
- (G) RK PROPERTY HOLDINGS, L.L.C.



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RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	DATE
DESIGNED: ATW	DRAWN: EAM		
CHECKED: JRA	CHECKED: JRA		

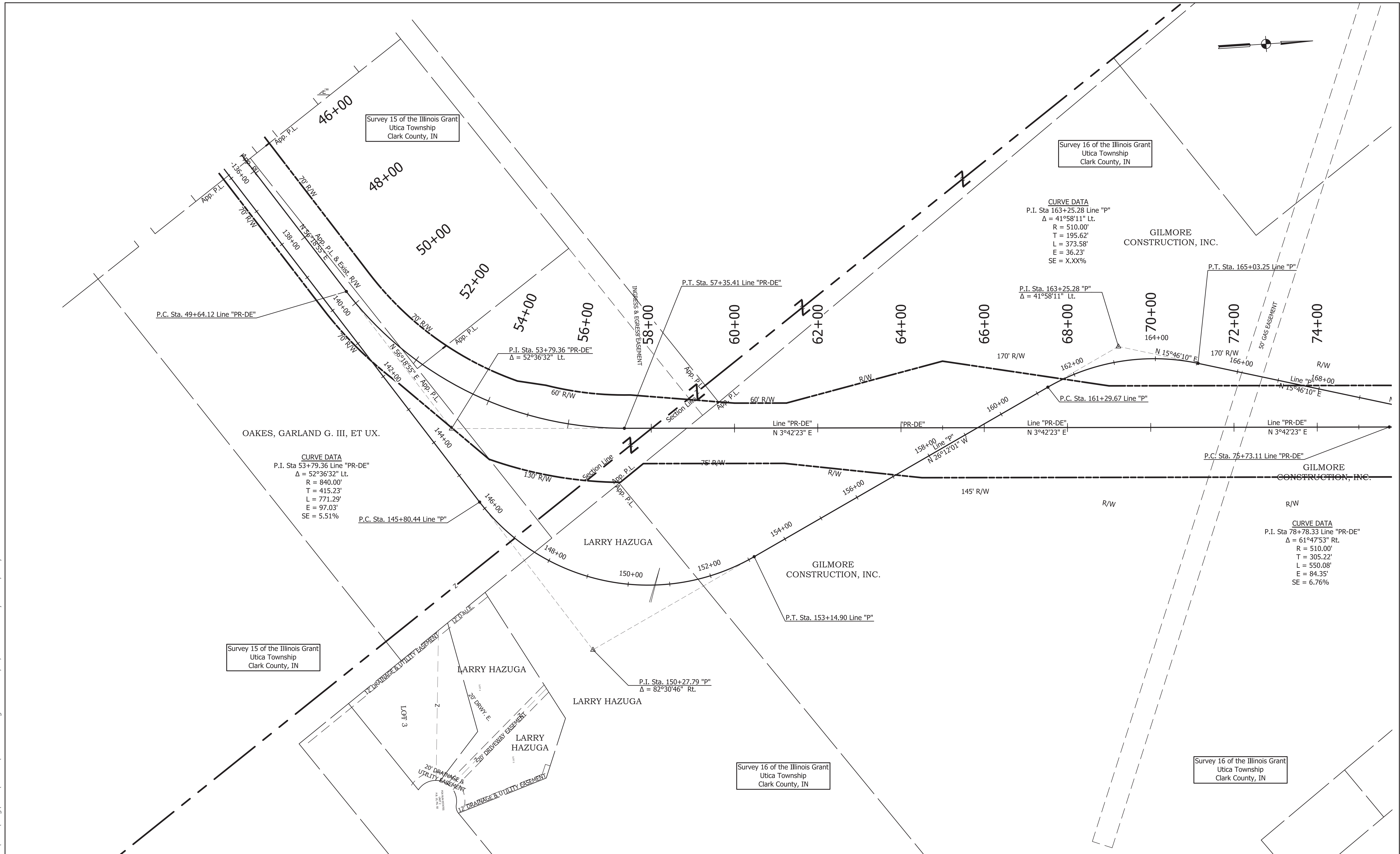
INDIANA  
DEPARTMENT OF TRANSPORTATION

PLAT 1  
LINE "PR-DE"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	-
VERTICAL SCALE	DESIGNATION
N/A	1382612
SURVEY BOOK	SHEETS
-	of XX
CONTRACT	PROJECT
R-36260	1382612



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All Proposed R/W is Designed from Line "PR-DE" Unless Otherwise Noted.  
Lines "PR-DE" is the Surveyed Alignment.



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CHECKED: JRA	CHECKED: JRA		

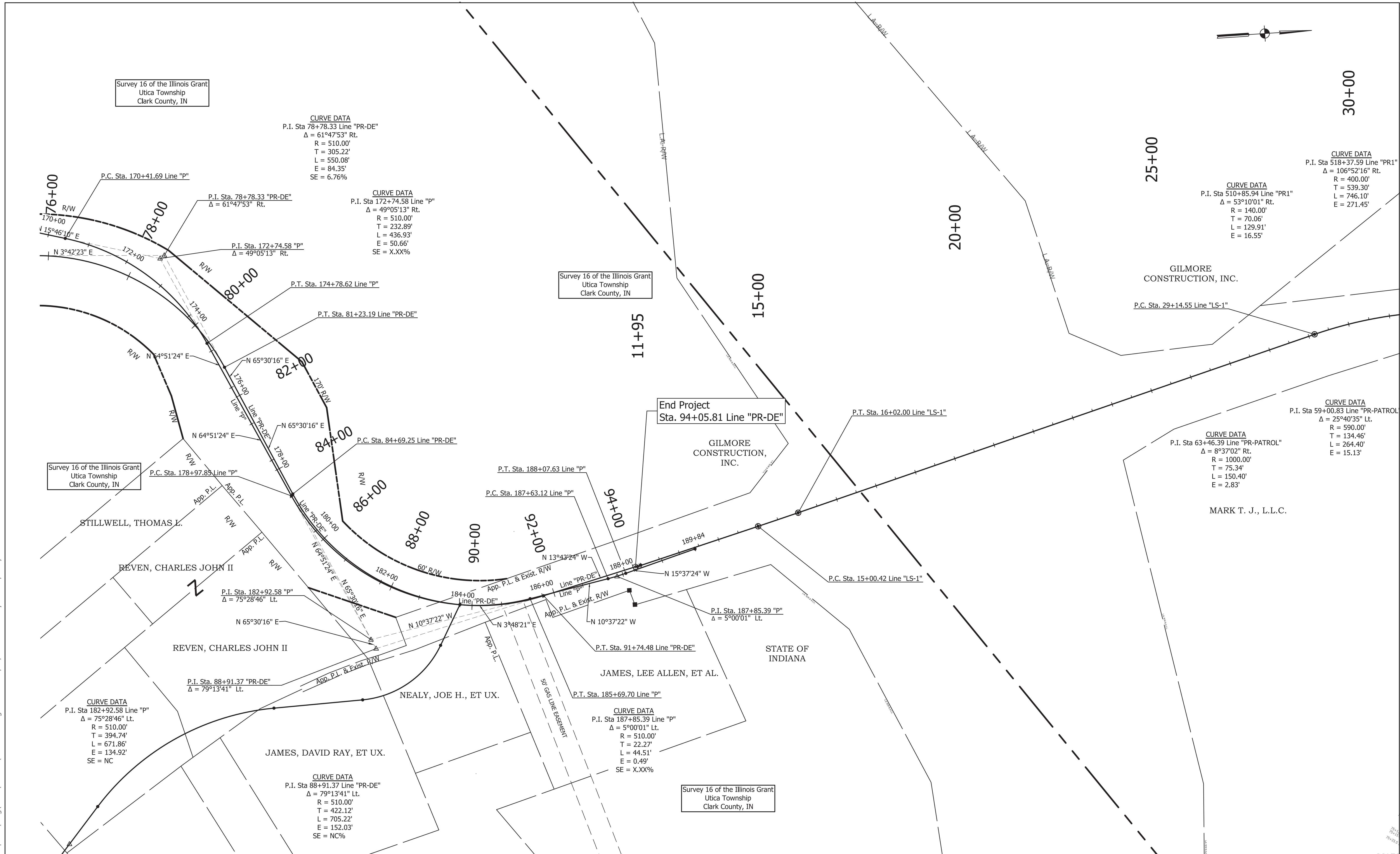
INDIANA  
DEPARTMENT OF TRANSPORTATION

PLAT 1  
LINE "PR-DE"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	-
VERTICAL SCALE	DESIGNATION
N/A	1382612
SURVEY BOOK	SHEETS
-	--- of XX
CONTRACT	PROJECT
R-36260	1382612



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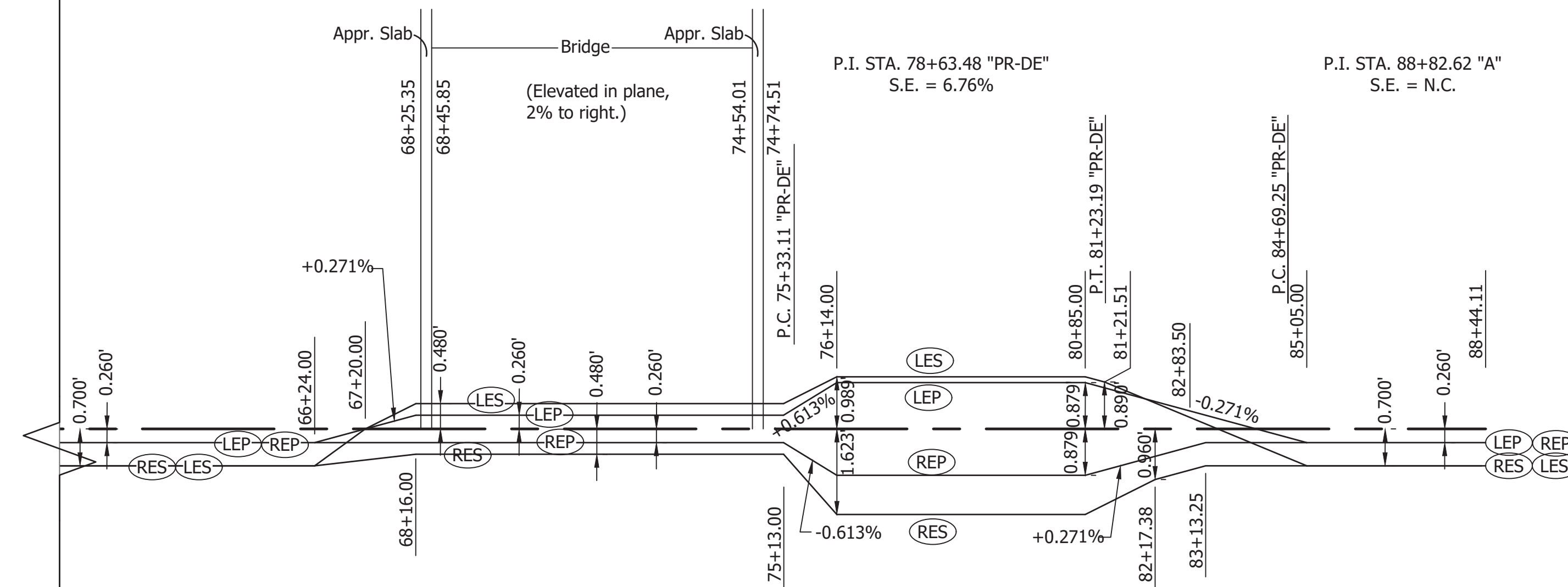
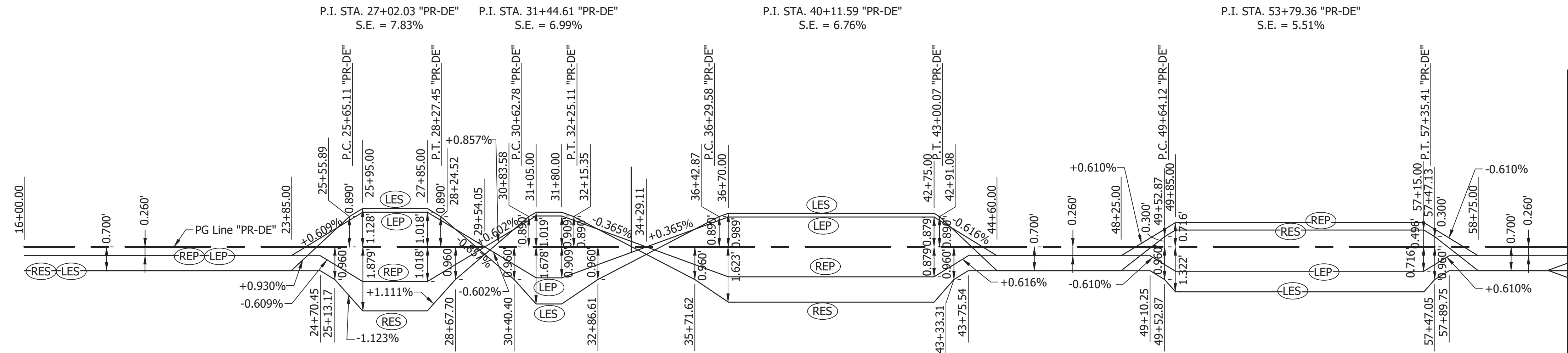
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DESIGNED: ATW	DRAWN: EAM	
CHECKED: JRA	CHECKED: JRA	

INDIANA  
DEPARTMENT OF TRANSPORTATION  
  
PLAT 1  
LINE "PR-DE"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1382612
SURVEY BOOK	SHEETS
CONTRACT R-36260	PROJECT 1382612





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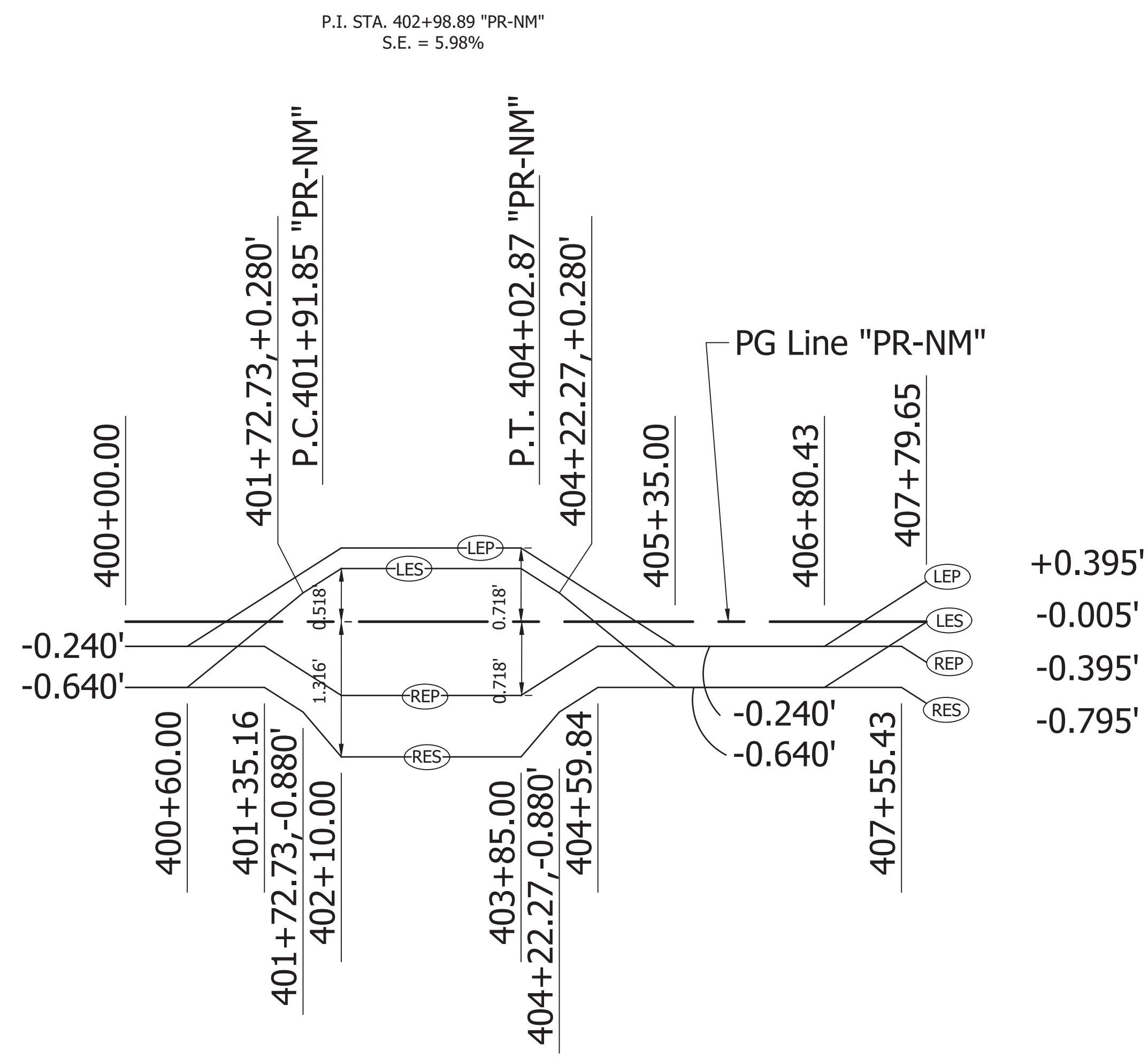
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DESIGNED: JRA	DRAWN: EAM		
CHECKED: MAT	CHECKED: JRA		

INDIANA  
DEPARTMENT OF TRANSPORTATION

SUPER ELEVATIONS  
Line "PR-DE"

HORIZONTAL SCALE	BRIDGE FILE
1" = 200'	-
VERTICAL SCALE	DESIGNATION
1" = 200'	1382612
SURVEY BOOK	SHEETS
-	---- of XX
CONTRACT	PROJECT
R-36260	1382612





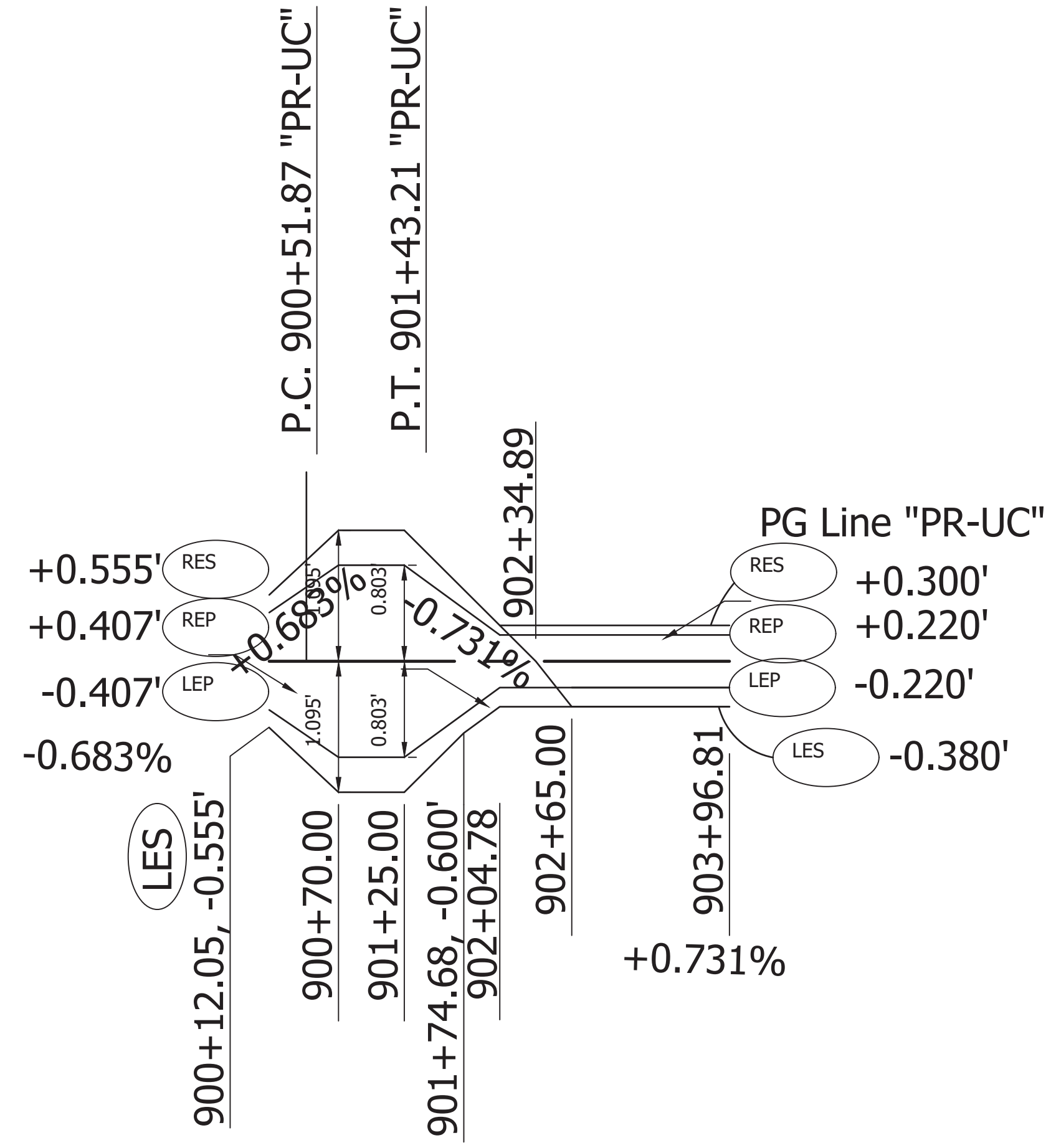
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DESIGNED: JRA	DRAWN: EAM
CHECKED: MAT	CHECKED: JRA

INDIANA DEPARTMENT OF TRANSPORTATION	
SUPER ELEVATIONS Line "PR-NM"	

HORIZONTAL SCALE 1" = 200'	BRIDGE FILE -
VERTICAL SCALE 1" = 200'	DESIGNATION 1382612
SURVEY BOOK -	SHEETS ---- of XX
CONTRACT R-36260	PROJECT 1382612





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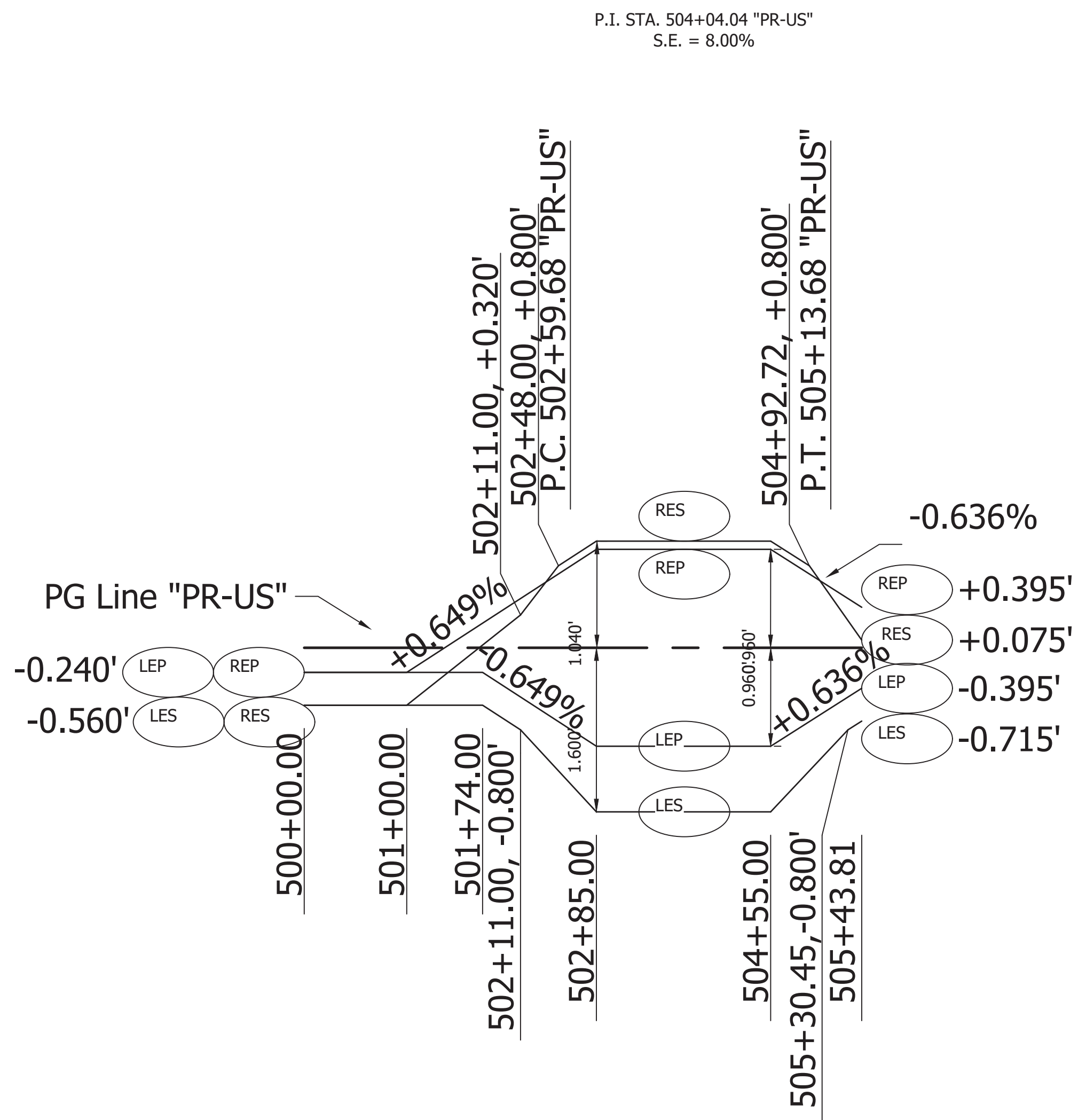
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DESIGNED: JRA	DRAWN: EAM		
CHECKED: MAT	CHECKED: JRA		

INDIANA  
 DEPARTMENT OF TRANSPORTATION

SUPER ELEVATIONS  
 Line "PR-UC"

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE -
VERTICAL SCALE 1" = 100'	DESIGNATION 1382612
SURVEY BOOK -	SHEETS ---- of XX
CONTRACT R-36260	PROJECT 1382612





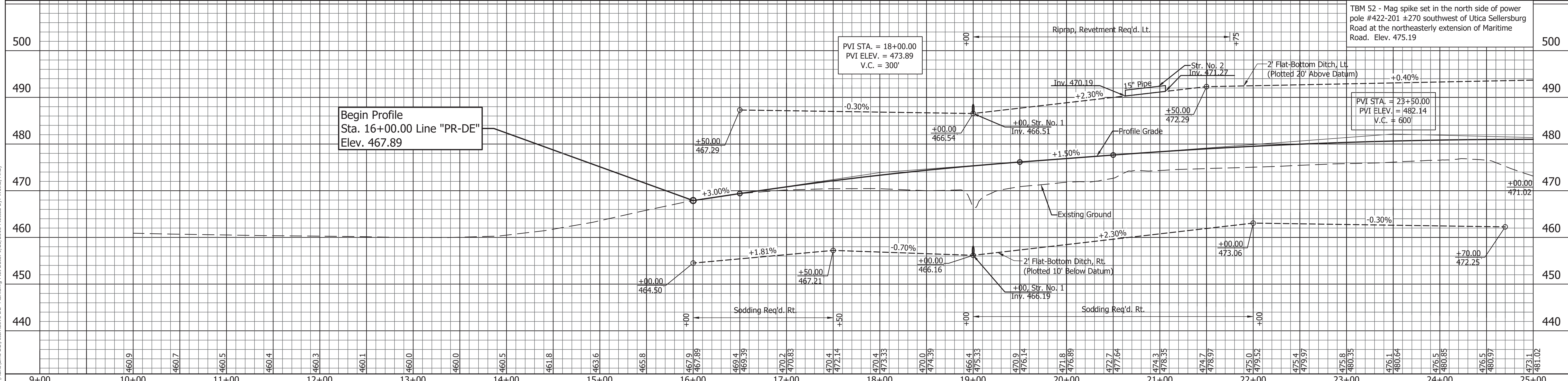
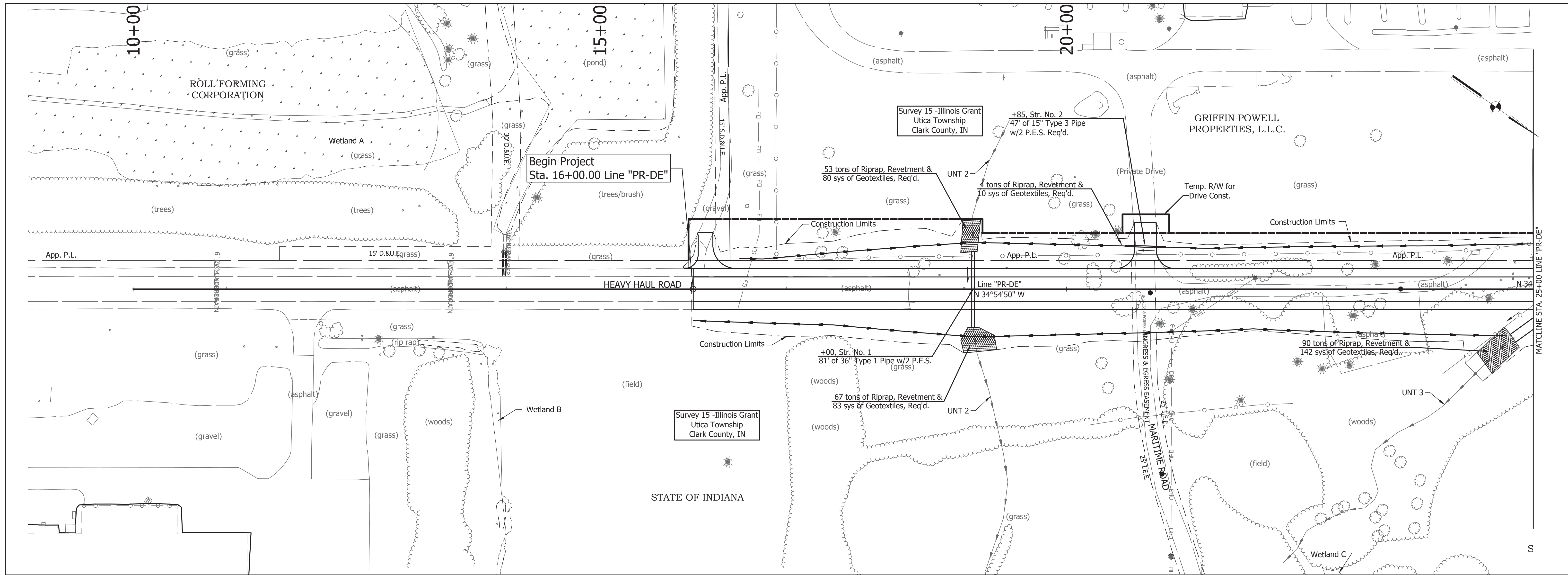
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RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	DATE
DESIGNED: JRA	DRAWN: EAM		
CHECKED: MAT	CHECKED: JRA		

INDIANA  
DEPARTMENT OF TRANSPORTATION

SUPER ELEVATIONS  
Line "PR-US"

HORIZONTAL SCALE	BRIDGE FILE
1" = 100'	-
VERTICAL SCALE	DESIGNATION
1" = 100'	1382612
SURVEY BOOK	SHEETS
-	---- of XX
CONTRACT	PROJECT
R-36260	1382612



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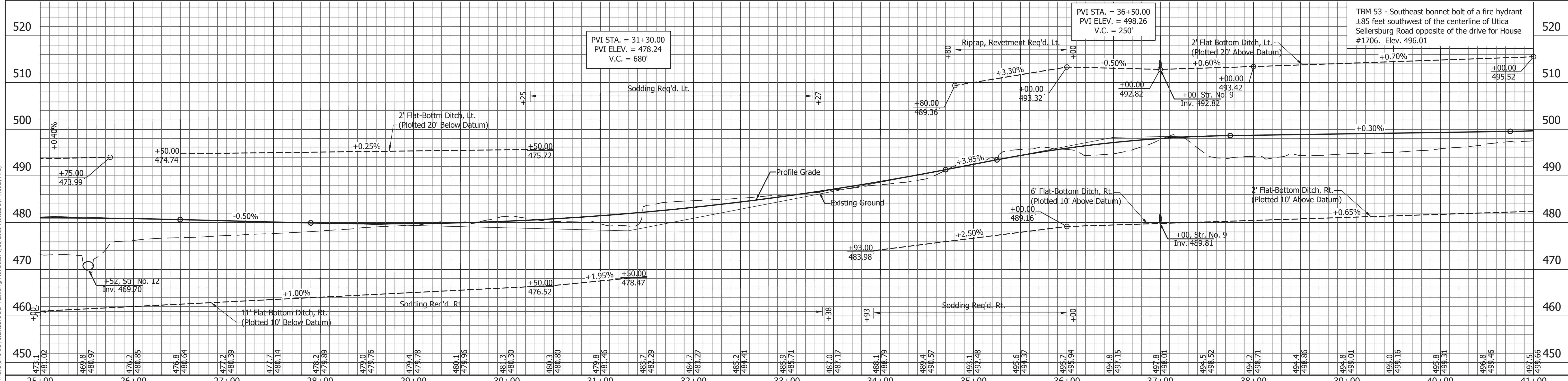
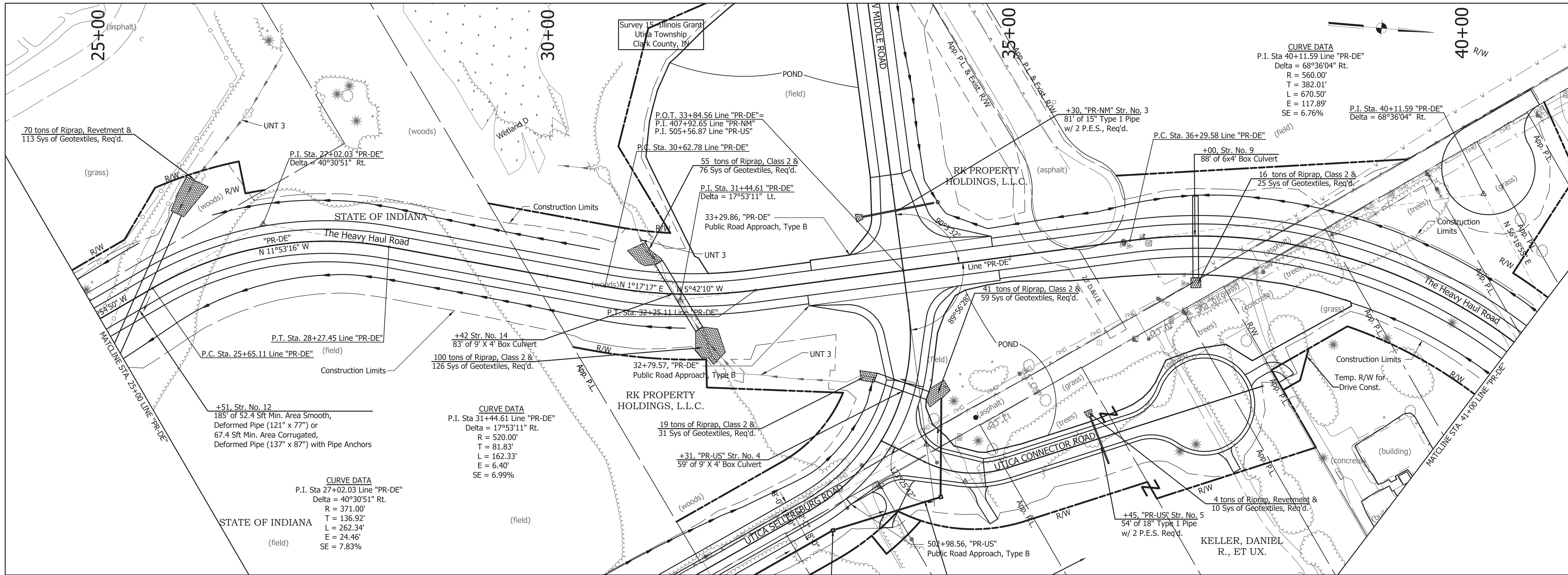
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DESIGNED: JRA	DRAWN: EAM				
CHECKED: MAT	CHECKED: JRA				

**INDIANA**  
 DEPARTMENT OF TRANSPORTATION

**PLAN & PROFILES**  
 LINE "PR-DE"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1382612
SURVEY BOOK	SHEETS
-	of XX
CONTRACT R-36260	PROJECT
-	-





File Name: P:\CDD\14-02\Road\Drawings\Line\_DE\Alternative DE\_Plan.dwg Plot Date: 9/20/2018 Plotted By: Wolk, Andy



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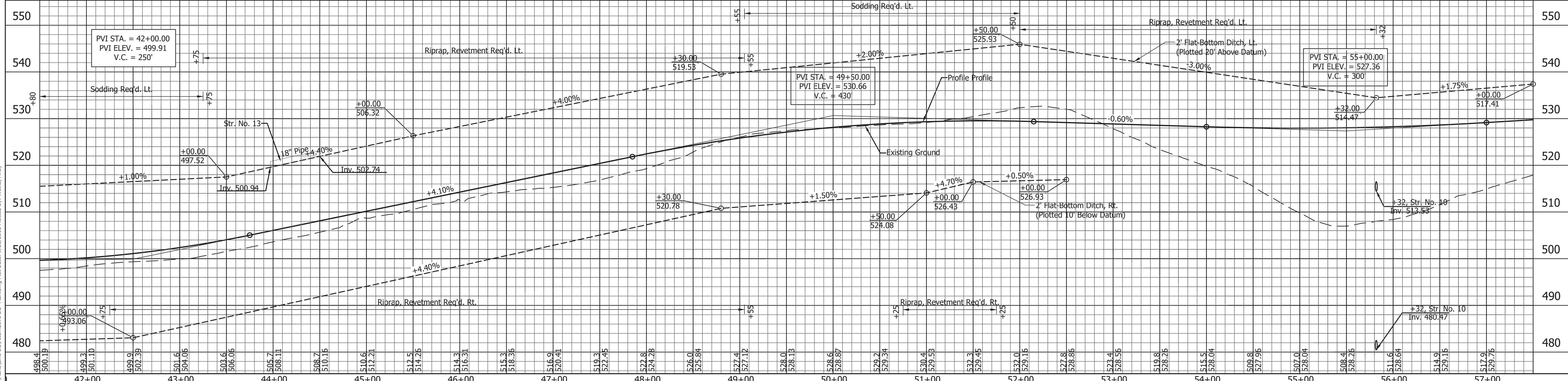
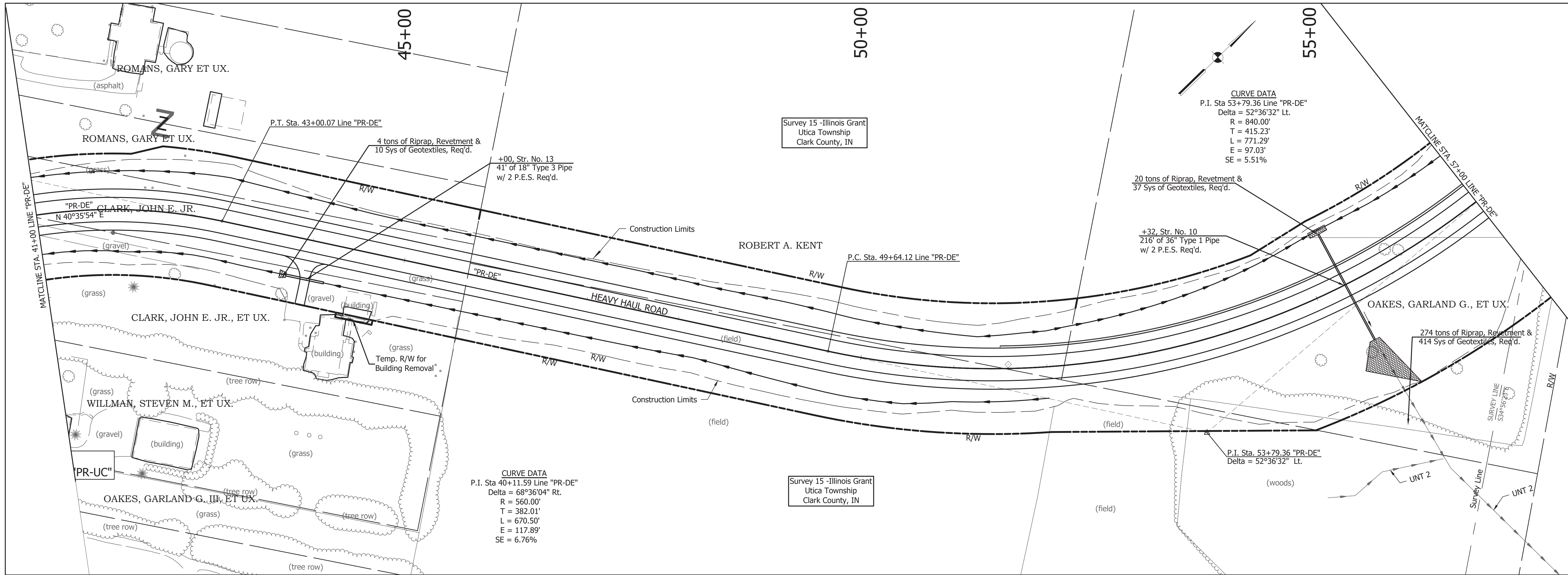
RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: JRA	DRAWN: EAM				
CHECKED: MAT	CHECKED: JRA				

INDIANA  
 DEPARTMENT OF TRANSPORTATION

PLAN & PROFILES  
 LINE "PR-DE"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1382612
SURVEY BOOK	SHEETS
-	of XX
CONTRACT	PROJECT
R-36260	1382612





File Name: P:\CDD\14-02\Road\Drawings\Line\_DE\Alternative DE - Plan.dwg Plot Date: 9/20/2018 Plotted By: Wolke, Andy



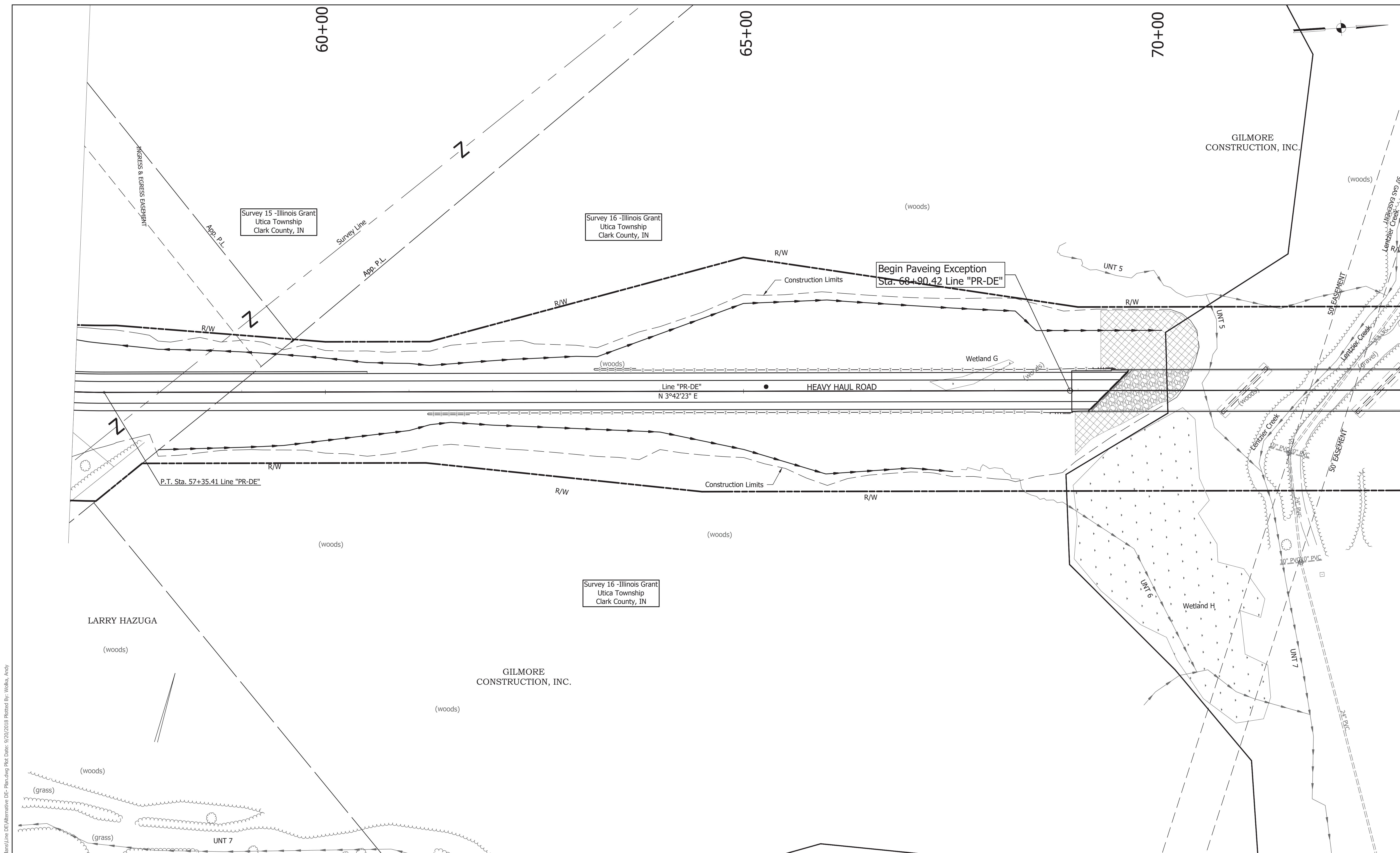
1625 N. Post Road  
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RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____		DATE _____	
DESIGNED: JRA	DRAWN: EAM				
CHECKED: MAT	CHECKED: JRA				

INDIANA  
DEPARTMENT OF TRANSPORTATION  
  
PLAN & PROFILES  
LINE "PR-DE"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE -
VERTICAL SCALE 1" = 10'	DESIGNATION 1382612
SURVEY BOOK -	SHEETS of XX
CONTRACT R-36260	PROJECT 1382612





File Name: P:\CDD\14-02\Road\Drawings\Line DE\Alternative DE-Plan.dwg Plot Date: 9/20/2018 Plotted By: Wolke, Andy

LARRY HAZUGA

GILMORE CONSTRUCTION, INC.

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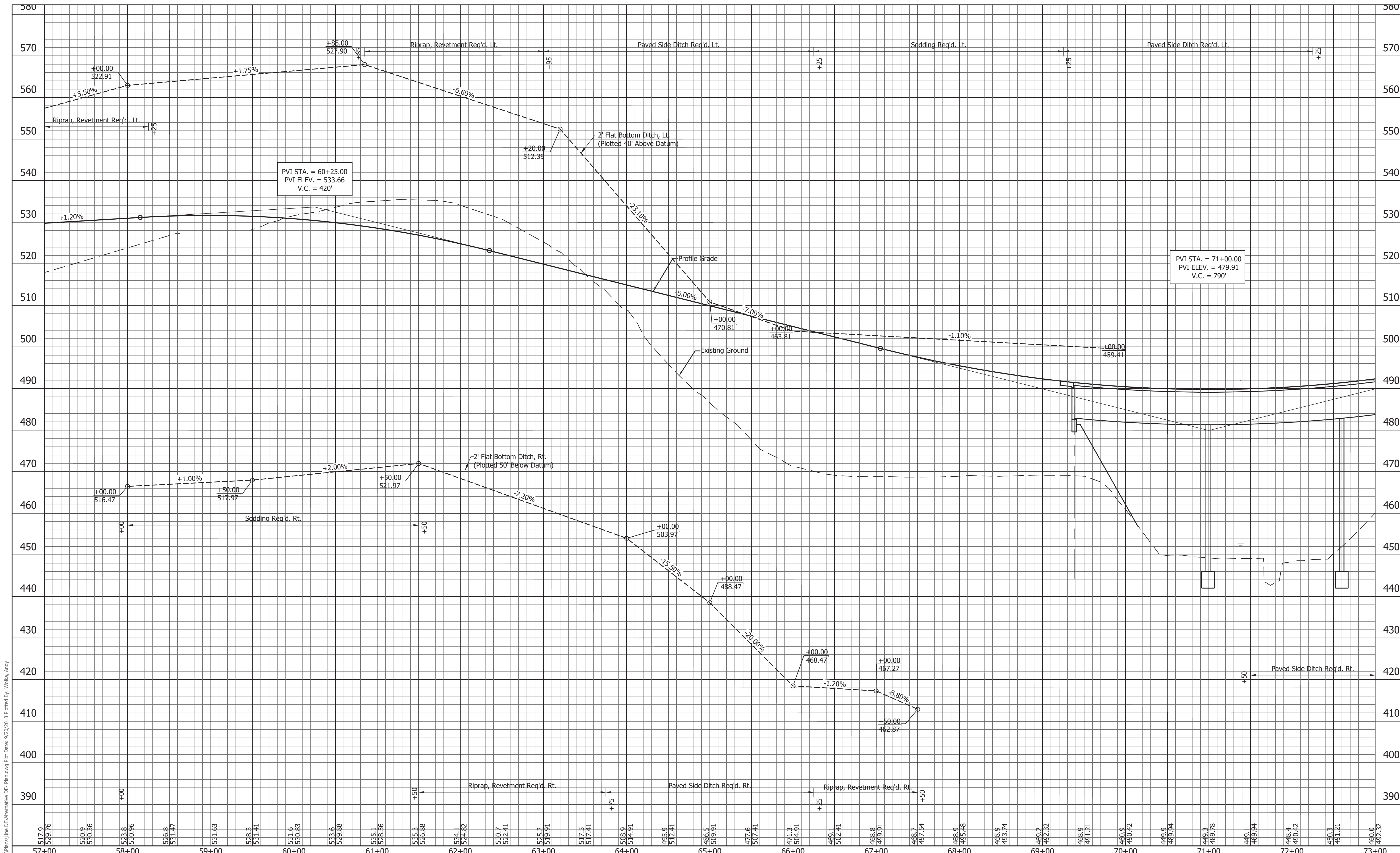


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RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
DESIGNED: JRA	DRAWN: EAM		
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INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 Plan and Profile  
 LINE "PR-DE"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE -
VERTICAL SCALE 1" = 10'	DESIGNATION 1382612
SURVEY BOOK -	SHEETS of XX
CONTRACT R-36260	PROJECT 1382612



File Name: P:\CDD\14-02\Road\Drawings\Line\_DE\Alternative DE - Plan.dwg Plot Date: 9/20/2018 Plotted By: Waka, Andy



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

DESIGNED: JRA DRAWN: EAM  
CHECKED: MAT CHECKED: JRA

INDIANA  
DEPARTMENT OF TRANSPORTATION

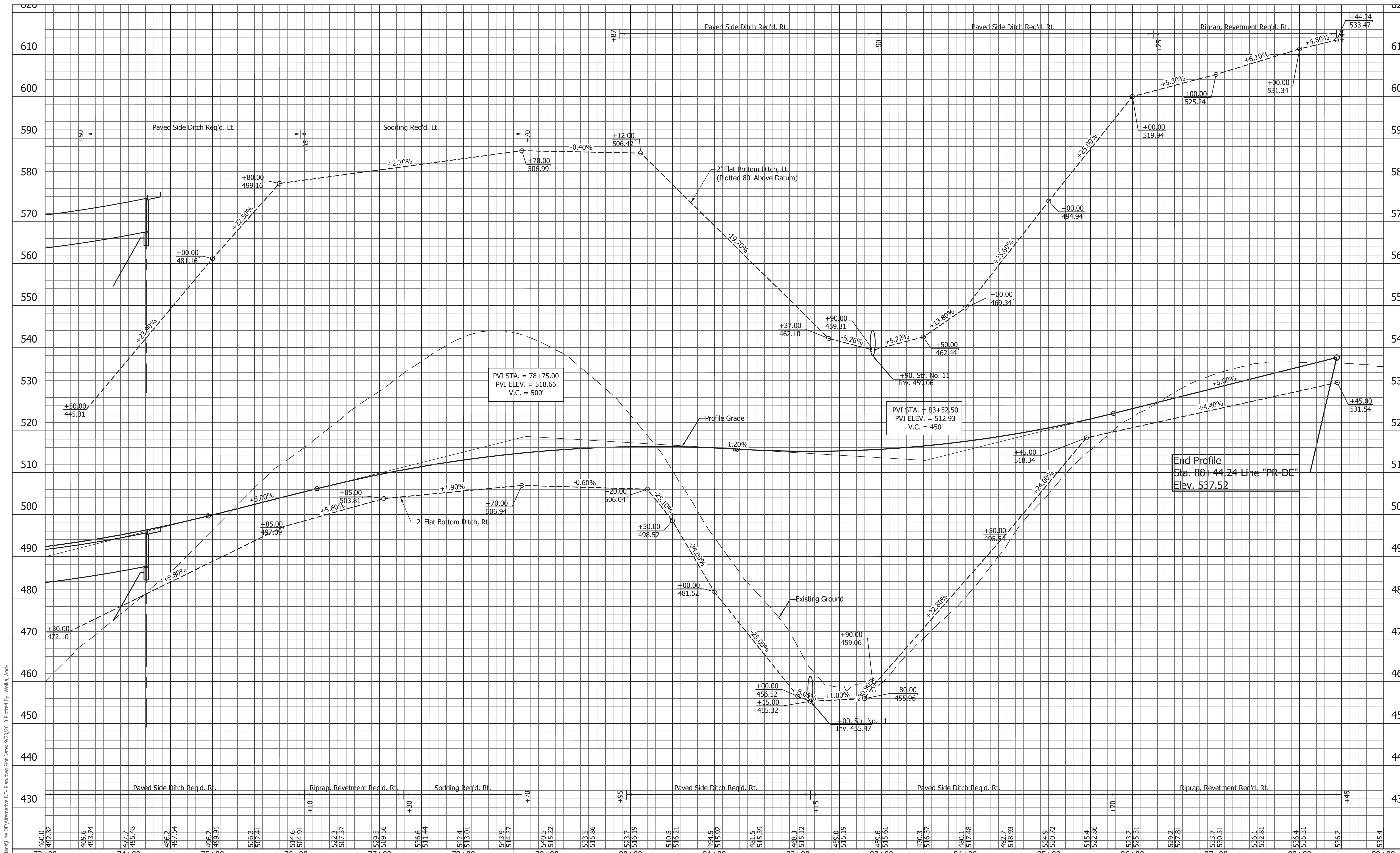
Plan and Profile  
LINE "PR-DE"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE -
VERTICAL SCALE 1" = 10'	DESIGNATION 1382612
SURVEY BOOK -	SHEETS --- of XX
CONTRACT R-36260	PROJECT 1382612









File Name: P:\CDD\14-02\Road\Drawings\Line\_DE\Alternative DE - Plan.dwg Plot Date: 9/20/2018 Plotted By: Wolska, Andy



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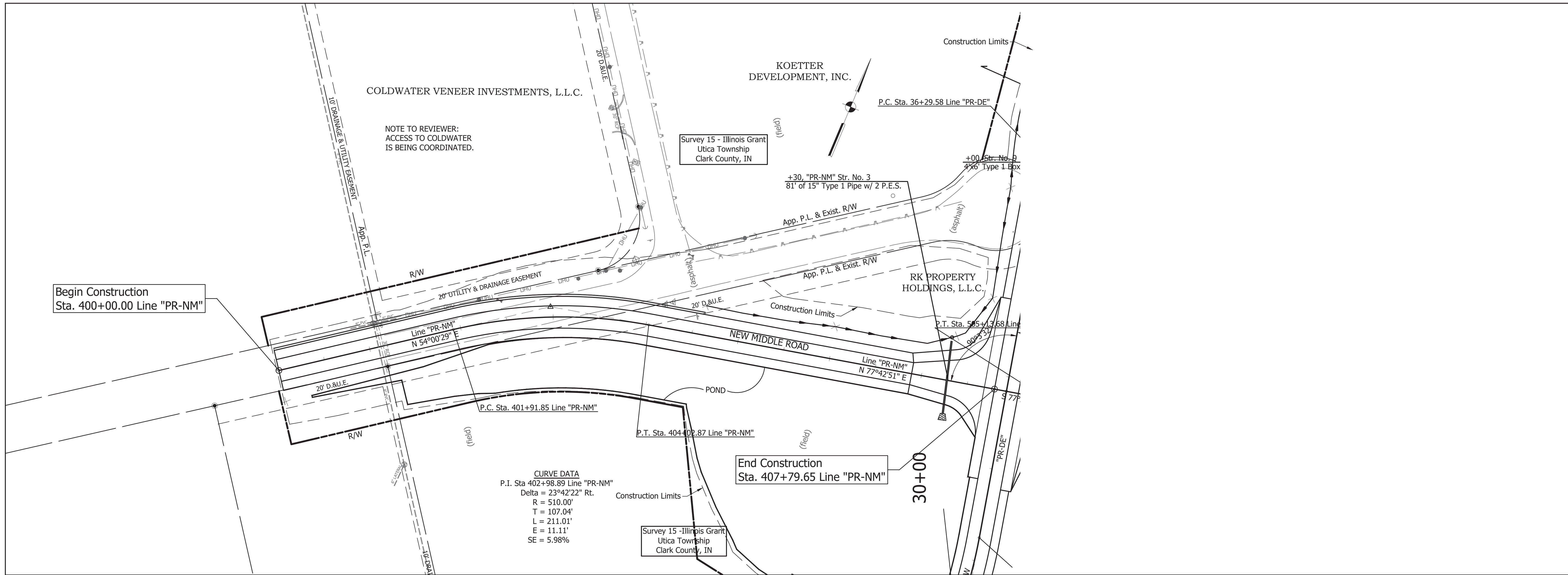
RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____		DATE _____	
DESIGNED: JRA	DRAWN: EAM				
CHECKED: MAT	CHECKED: JRA				

**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**

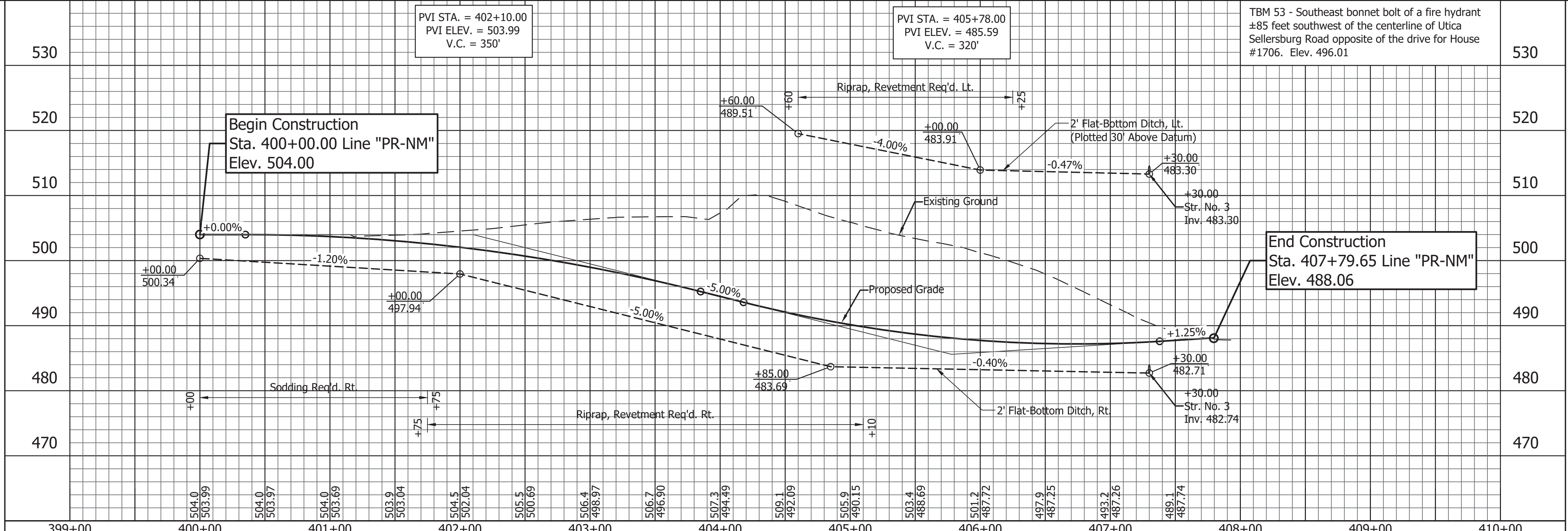
Plan and Profile  
LINE "PR-DE"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE -
VERTICAL SCALE 1" = 10'	DESIGNATION 1382612
SURVEY BOOK -	SHEETS --- of XX
CONTRACT R-36260	PROJECT 1382612





**CURVE DATA**  
 P.I. Sta 402+98.89 Line "PR-NM"  
 Delta = 23°42'22" Rt.  
 R = 510.00'  
 T = 107.04'  
 L = 211.01'  
 E = 11.11'  
 SE = 5.98%



File Name: P:\CDD\14-402\Road\Drawings\Line\_DE\PR-PR-NM.dwg Plot Date: 9/20/2018 Plotted By: Walker, Andy



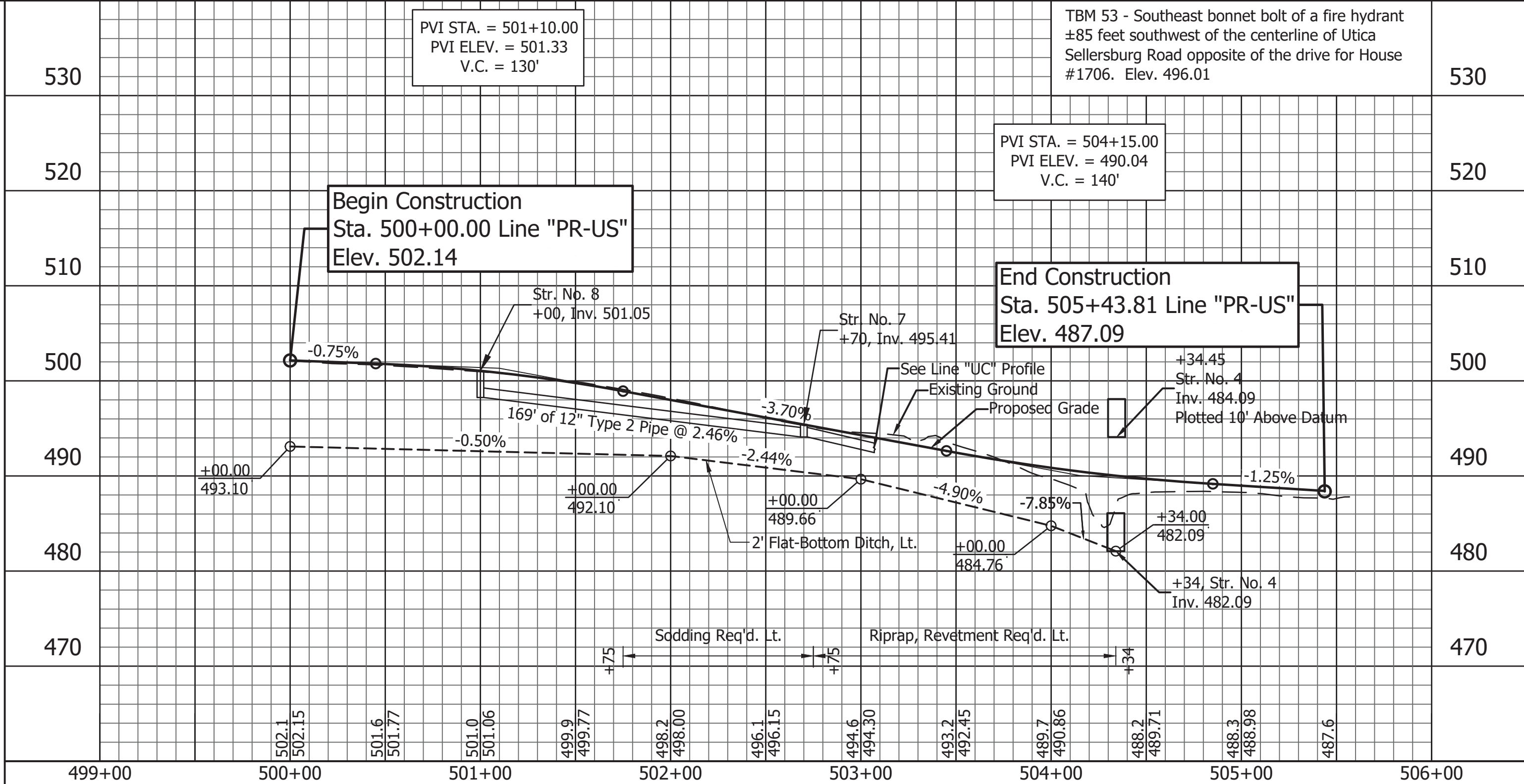
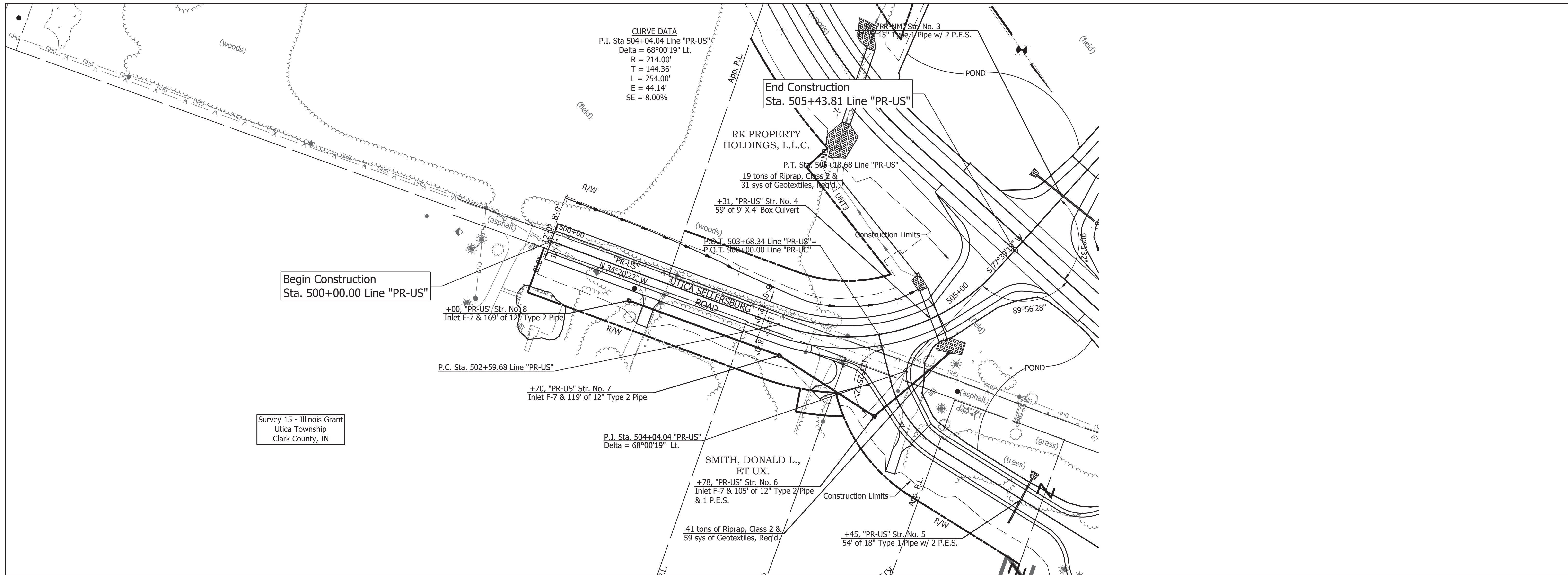
1625 N. Post Road  
 Indianapolis, IN 46219  
 Phone 317-895-2585  
 Fax 317-895-2596  
 www.ucindy.com

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____		DATE _____	
DESIGNED: JRA	DRAWN: EAM				
CHECKED: MAT	CHECKED: JRA				

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 Plan and Profile  
 LINE "PR-NM"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE -
VERTICAL SCALE 1" = 10'	DESIGNATION 1382612
SURVEY BOOK -	SHEETS of XX
CONTRACT R-36260	PROJECT 1382612





File Name: P:\CDD\14-402\Road\Drawings\Line\_DE\PR-UC.dwg Plot Date: 9/20/2018 Plotted By: Wolke, Andy



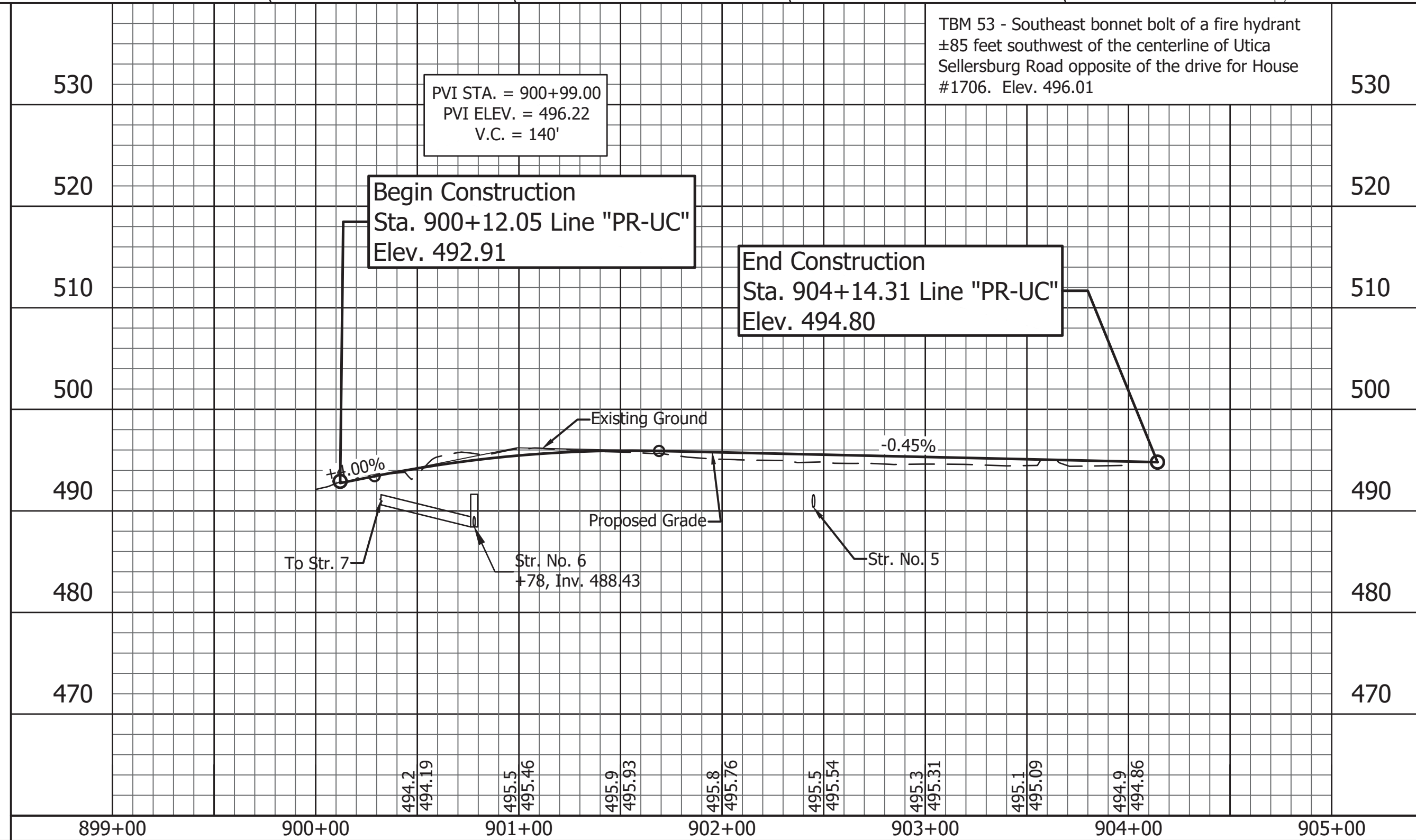
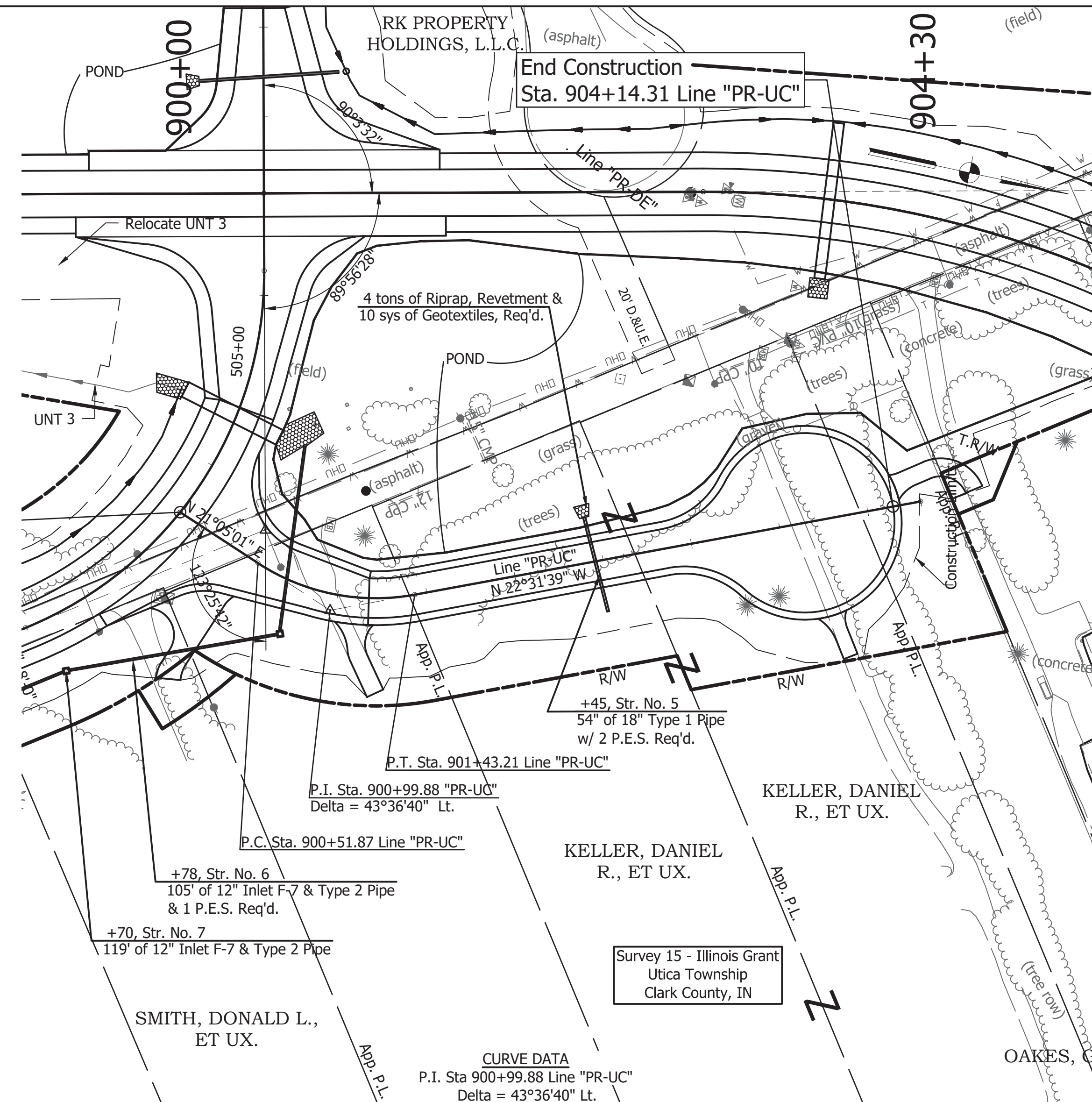
1625 N. Post Road  
 Indianapolis, IN 46219  
 Phone 317-895-2585  
 Fax 317-895-2596  
 www.ucindy.com

RECOMMENDED FOR APPROVAL \_\_\_\_\_  
 DESIGN ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
 DESIGNED: JRA DRAWN: EAM  
 CHECKED: MAT CHECKED: JRA

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 Plan and Profile  
 Line "PR-US"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1382612
SURVEY BOOK	SHEETS
-	of XX
CONTRACT	PROJECT
R-36260	1382612





File Name: P:\CDD\14-02\Road\Drawings\Line\DESP\PR-UC.dwg Plot Date: 9/20/2018 Plotted By: Wolke, Andy



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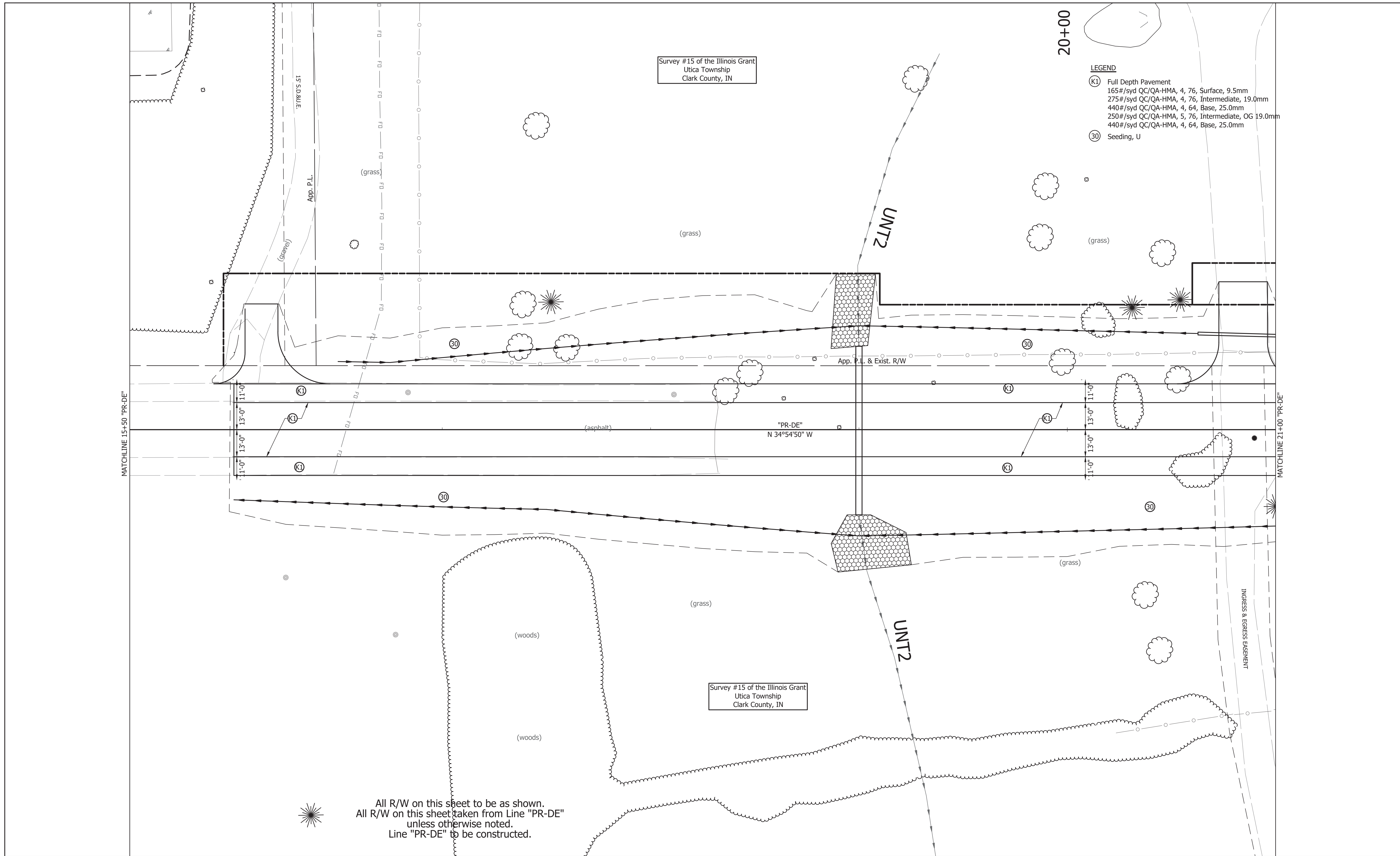
RECOMMENDED FOR APPROVAL \_\_\_\_\_  
DESIGN ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
DESIGNED: JRA DRAWN: EAM  
CHECKED: MAT CHECKED: JRA

INDIANA  
DEPARTMENT OF TRANSPORTATION  
Plan and Profile  
Line "PR-UC"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1382612
SURVEY BOOK	SHEETS
-	---- of XX
CONTRACT	PROJECT
R-36260	1382612







Survey #15 of the Illinois Grant  
 Utica Township  
 Clark County, IN

20+00

- LEGEND**
- (K1) Full Depth Pavement  
 165#/syd QC/QA-HMA, 4, 76, Surface, 9.5mm  
 275#/syd QC/QA-HMA, 4, 76, Intermediate, 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm  
 250#/syd QC/QA-HMA, 5, 76, Intermediate, OG 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm
  - (30) Seeding, U

All R/W on this sheet to be as shown.  
 All R/W on this sheet taken from Line "PR-DE"  
 unless otherwise noted.  
 Line "PR-DE" to be constructed.



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RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____ DATE _____	
DESIGNED: JRA	DRAWN: EAM		
CHECKED: MAT	CHECKED: JRA		

INDIANA  
 DEPARTMENT OF TRANSPORTATION

**CONSTRUCTION DETAILS**  
 Line "PR-DE"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE -
VERTICAL SCALE N/A	DESIGNATION 1382612
SURVEY BOOK -	SHEETS ---- of XX
CONTRACT R-36260	PROJECT 1382612

25+00

Survey #15 of the Illinois Grant  
Utica Township  
Clark County, IN

(grass)

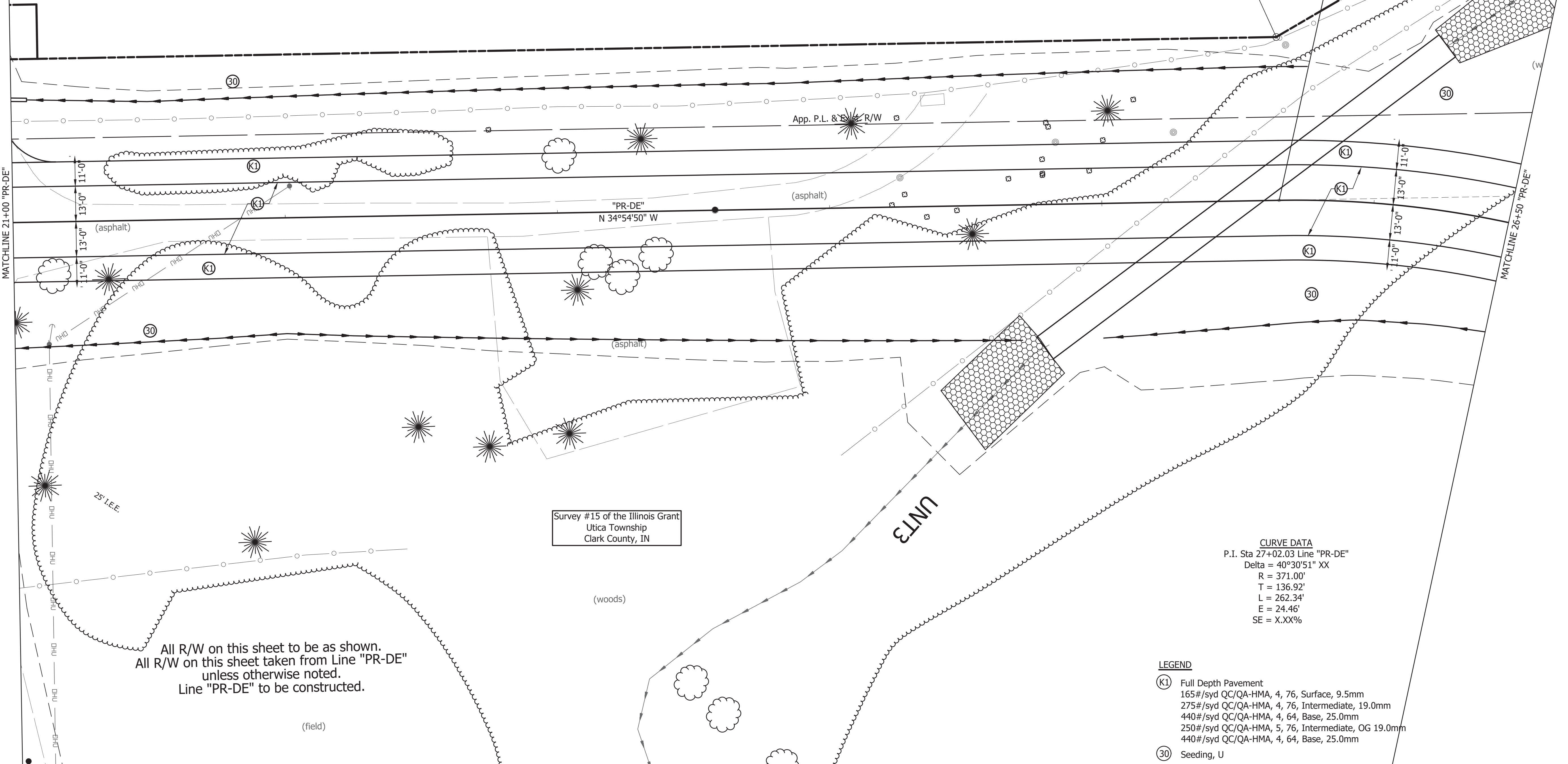
(grass)

+P.C.(+65.11)  
60.00' Lt.

P.C. Sta. 25+60.11 Line "PR-DE"

MATCHLINE 21+00 "PR-DE"

MATCHLINE 26+50 "PR-DE"



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All R/W on this sheet taken from Line "PR-DE"  
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Line "PR-DE" to be constructed.

Survey #15 of the Illinois Grant  
Utica Township  
Clark County, IN

**CURVE DATA**  
 P.I. Sta 27+02.03 Line "PR-DE"  
 Delta = 40°30'51" XX  
 R = 371.00'  
 T = 136.92'  
 L = 262.34'  
 E = 24.46'  
 SE = X.XX%

**LEGEND**  
 (K1) Full Depth Pavement  
 165#/syd QC/QA-HMA, 4, 76, Surface, 9.5mm  
 275#/syd QC/QA-HMA, 4, 76, Intermediate, 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm  
 250#/syd QC/QA-HMA, 5, 76, Intermediate, OG 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm  
 (30) Seeding, U



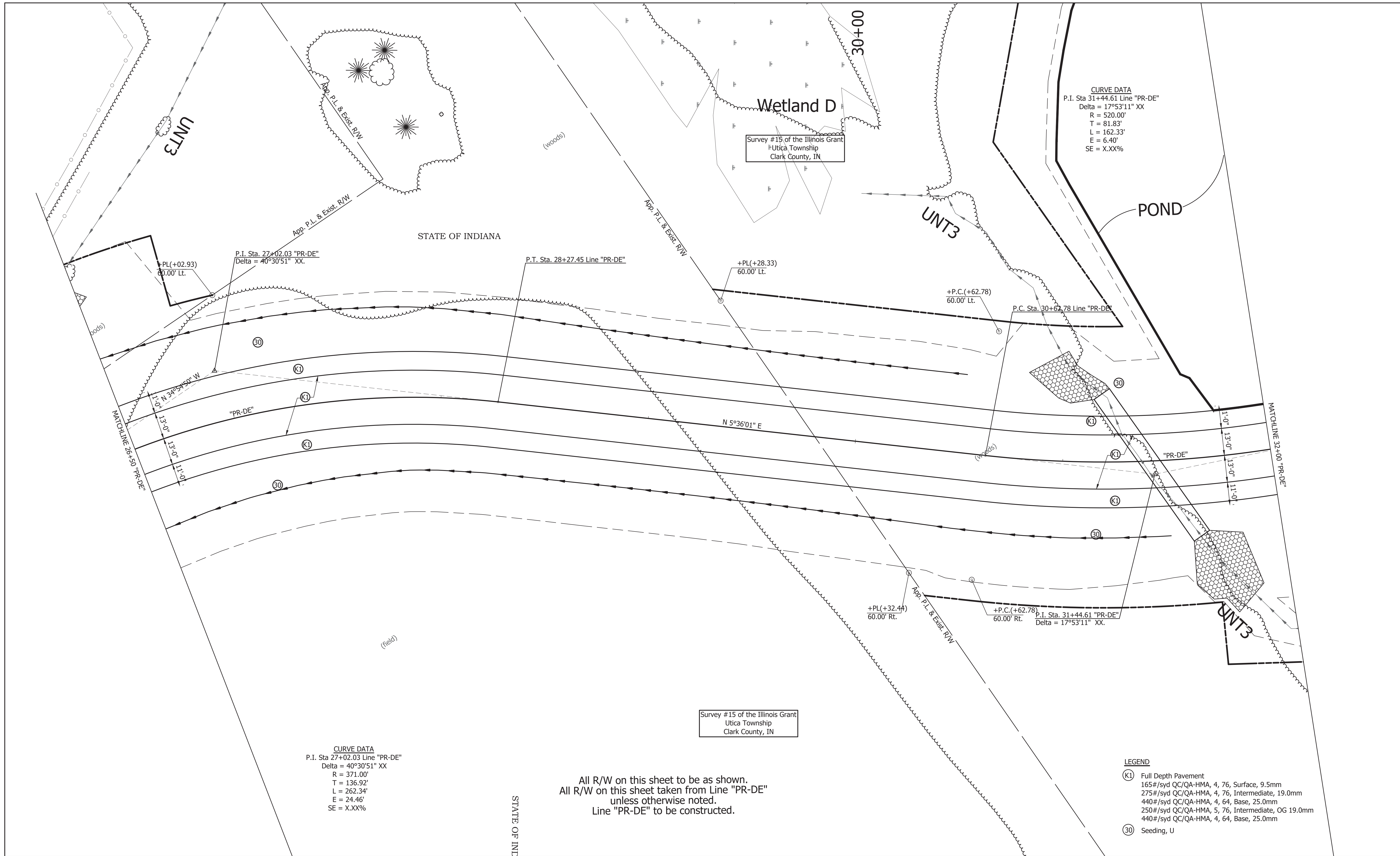
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 Fax 317-895-2596  
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RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____		DATE _____	
DESIGNED: JRA		DRAWN: EAM			
CHECKED: MAT		CHECKED: JRA			

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 CONSTRUCTION DETAILS  
 Line "PR-DE"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	-
VERTICAL SCALE	DESIGNATION
N/A	1382612
SURVEY BOOK	SHEETS
-	of XX
CONTRACT	PROJECT
R-36260	1382612





**CURVE DATA**  
 P.I. Sta 31+44.61 Line "PR-DE"  
 Delta = 17°53'11" XX  
 R = 520.00'  
 T = 81.83'  
 L = 162.33'  
 E = 6.40'  
 SE = X.XX%

**CURVE DATA**  
 P.I. Sta 27+02.03 Line "PR-DE"  
 Delta = 40°30'51" XX  
 R = 371.00'  
 T = 136.92'  
 L = 262.34'  
 E = 24.46'  
 SE = X.XX%

**LEGEND**

- (K1) Full Depth Pavement  
 165#/syd QC/QA-HMA, 4, 76, Surface, 9.5mm  
 275#/syd QC/QA-HMA, 4, 76, Intermediate, 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm  
 250#/syd QC/QA-HMA, 5, 76, Intermediate, OG 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm
- (30) Seeding, U

All R/W on this sheet to be as shown.  
 All R/W on this sheet taken from Line "PR-DE"  
 unless otherwise noted.  
 Line "PR-DE" to be constructed.

Survey #15 of the Illinois Grant  
 Utica Township  
 Clark County, IN



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RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____		DATE _____	
DESIGNED: JRA	DRAWN: EAM				
CHECKED: MAT	CHECKED: JRA				

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 CONSTRUCTION DETAILS  
 Line "PR-DE"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE -
VERTICAL SCALE N/A	DESIGNATION 1382612
SURVEY BOOK -	SHEETS --- of XX
CONTRACT R-36260	PROJECT 1382612

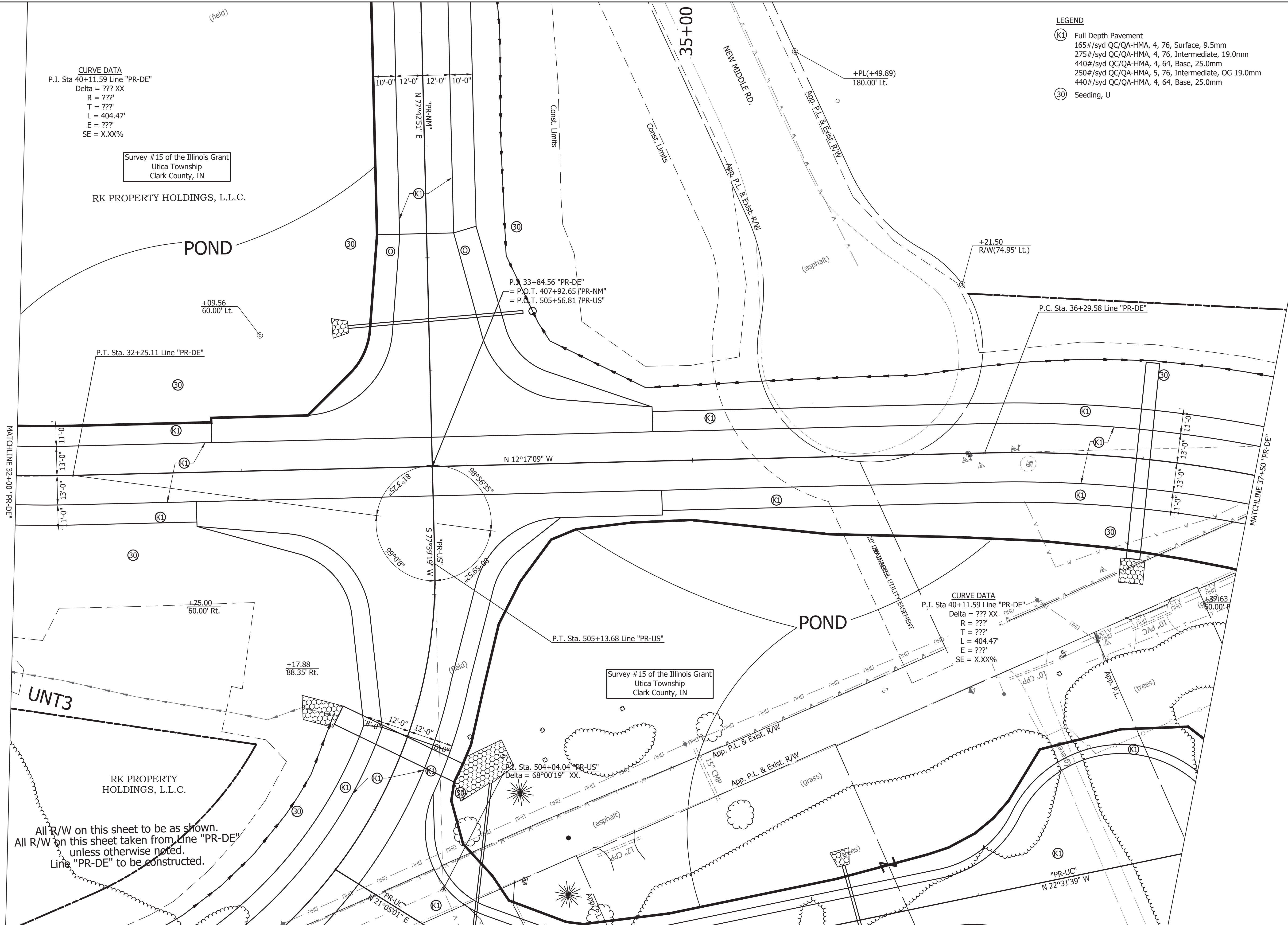


**CURVE DATA**  
 P.I. Sta 40+11.59 Line "PR-DE"  
 Delta = ??? XX  
 R = ???'  
 T = ???'  
 L = 404.47'  
 E = ???'  
 SE = X.XX%

Survey #15 of the Illinois Grant  
 Utica Township  
 Clark County, IN

RK PROPERTY HOLDINGS, L.L.C.

- LEGEND**
- (K1) Full Depth Pavement  
 165#/syd QC/QA-HMA, 4, 76, Surface, 9.5mm  
 275#/syd QC/QA-HMA, 4, 76, Intermediate, 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm  
 250#/syd QC/QA-HMA, 5, 76, Intermediate, OG 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm
  - (30) Seeding, U



All R/W on this sheet to be as shown.  
 All R/W on this sheet taken from Line "PR-DE"  
 unless otherwise noted.  
 Line "PR-DE" to be constructed.



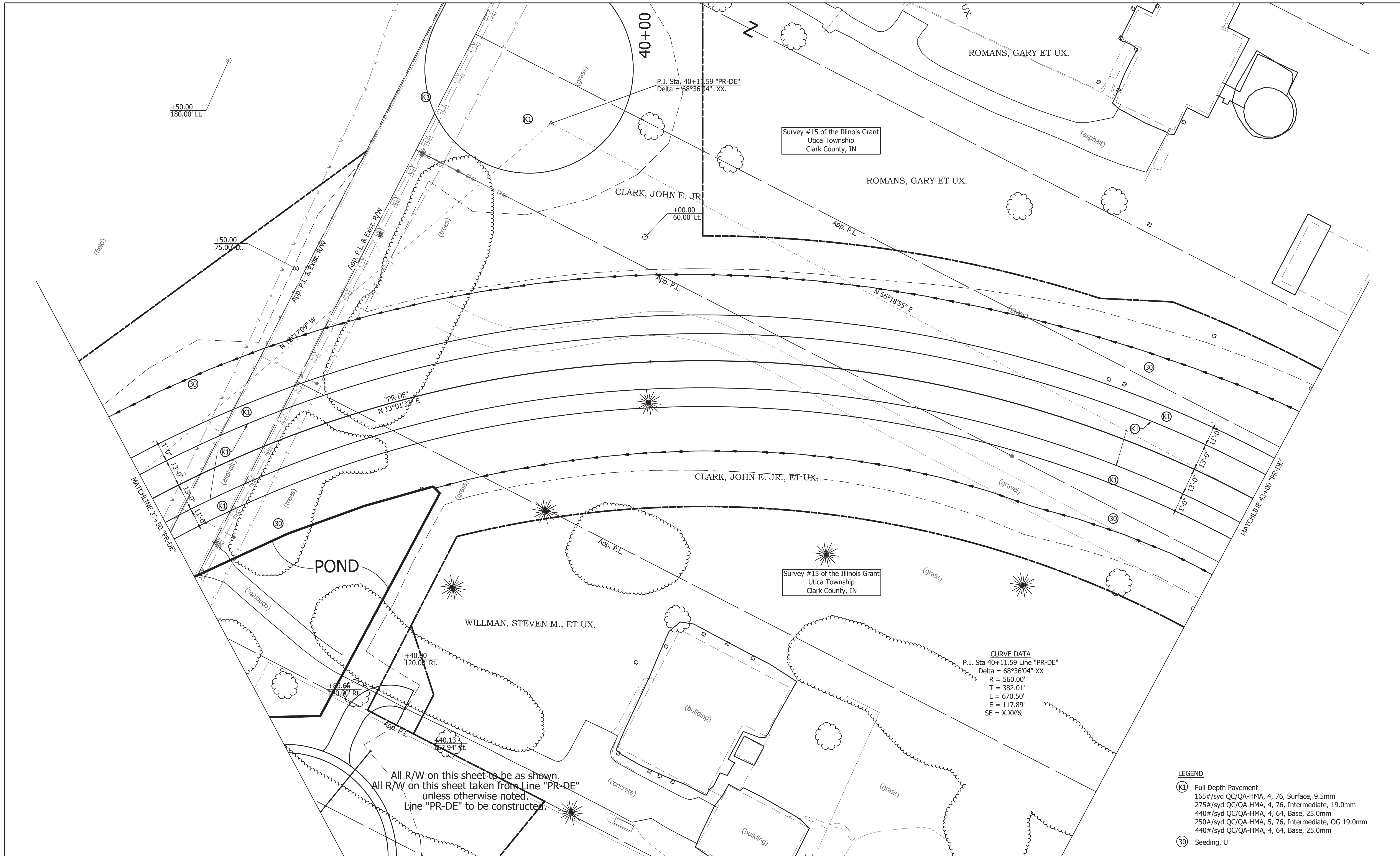
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DESIGNED: JRA		DRAWN: EAM			
CHECKED: MAT		CHECKED: JRA			

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 CONSTRUCTION DETAILS  
 Line "PR-DE"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE -
VERTICAL SCALE N/A	DESIGNATION 1382612
SURVEY BOOK -	SHEETS --- of XX
CONTRACT R-36260	PROJECT 1382612





+50.00  
180.00' Lt.

+50.00  
75.00' Lt.

P.I. Sta. 40+11.59 "PR-DE"  
Delta = 68°36'04" XX.

Survey #15 of the Illinois Grant  
Utica Township  
Clark County, IN

CLARK, JOHN E. JR.  
+00.00  
60.00' Lt.

ROMANS, GARY ET UX.

ROMANS, GARY ET UX.

CLARK, JOHN E. JR., ET UX.

WILLMAN, STEVEN M., ET UX.

POND

CURVE DATA  
P.I. Sta 40+11.59 Line "PR-DE"  
Delta = 68°36'04" XX  
R = 560.00'  
T = 382.01'  
L = 670.50'  
E = 117.89'  
SE = X.XX%

All R/W on this sheet to be as shown.  
All R/W on this sheet taken from Line "PR-DE"  
unless otherwise noted.  
Line "PR-DE" to be constructed.

- LEGEND**
- (K1) Full Depth Pavement  
165#/syd QC/QA-HMA, 4, 76, Surface, 9.5mm  
275#/syd QC/QA-HMA, 4, 76, Intermediate, 19.0mm  
440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm  
250#/syd QC/QA-HMA, 5, 76, Intermediate, OG 19.0mm  
440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm
  - (30) Seeding, U



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RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: JRA		DRAWN: EAM			
CHECKED: MAT		CHECKED: JRA			

INDIANA  
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS  
Line "PR-DE"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	-
VERTICAL SCALE	DESIGNATION
N/A	1382612
SURVEY BOOK	SHEETS
-	of XX
CONTRACT	PROJECT
R-36260	1382612

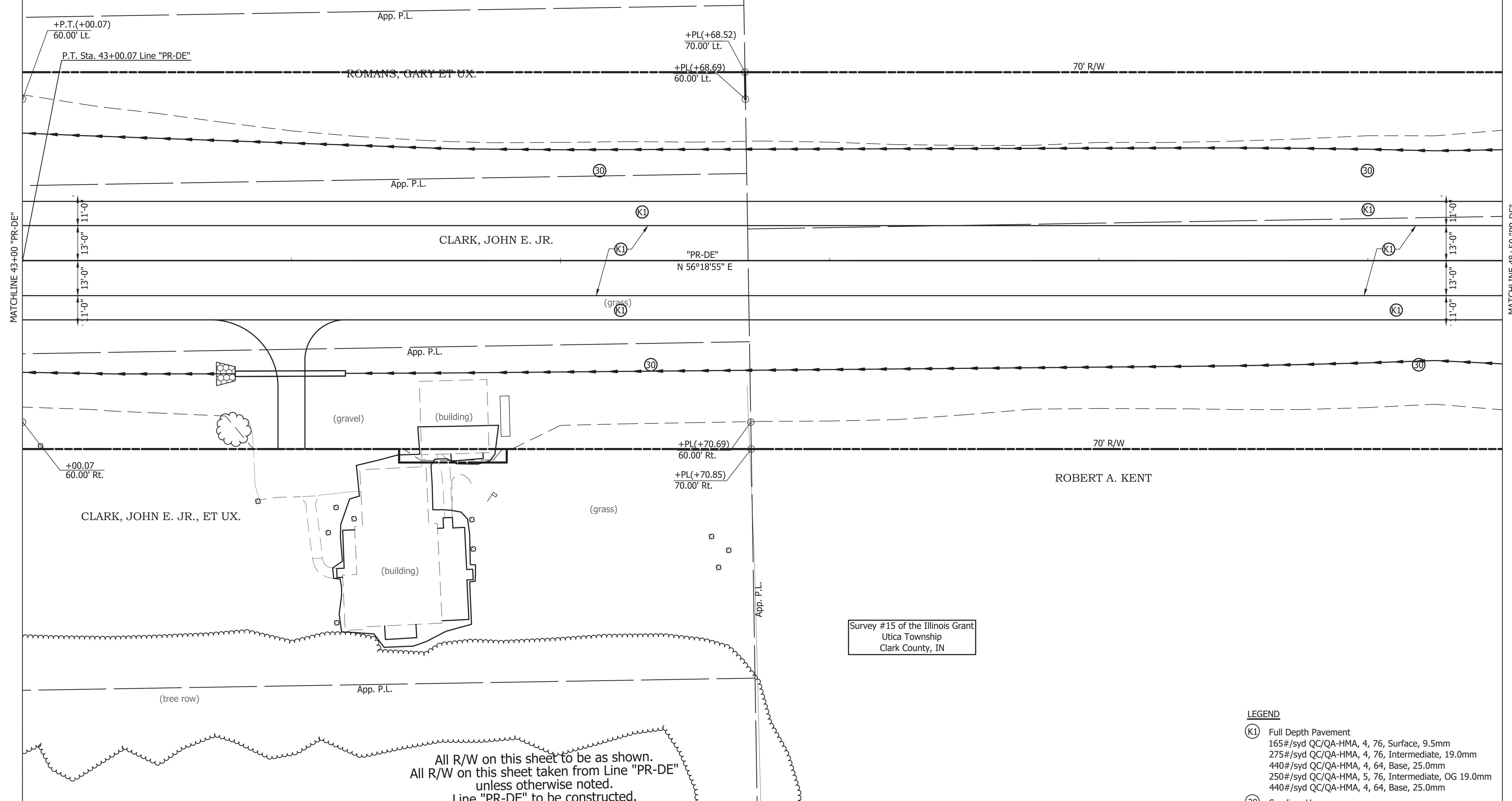


45+00

ROMANS, GARY ET UX.

ROBERT A. KENT

Survey #15 of the Illinois Grant  
Utica Township  
Clark County, IN



MATCHLINE 43+00 "PR-DE"

MATCHLINE 48+50 "PR-DE"

+P.T.(+00.07)  
60.00' Lt.  
P.T. Sta. 43+00.07 Line "PR-DE"

+PL(+68.52)  
70.00' Lt.  
+PL(+68.69)  
60.00' Lt.

+PL(+70.69)  
60.00' Rt.  
+PL(+70.85)  
70.00' Rt.

+00.07  
60.00' Rt.

All R/W on this sheet to be as shown.  
All R/W on this sheet taken from Line "PR-DE"  
unless otherwise noted.  
Line "PR-DE" to be constructed.

- LEGEND**
- (K1) Full Depth Pavement  
165#/syd QC/QA-HMA, 4, 76, Surface, 9.5mm  
275#/syd QC/QA-HMA, 4, 76, Intermediate, 19.0mm  
440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm  
250#/syd QC/QA-HMA, 5, 76, Intermediate, OG 19.0mm  
440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm
  - (30) Seeding, U



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RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____ DATE _____	
DESIGNED: JRA	DRAWN: EAM		
CHECKED: MAT	CHECKED: JRA		

INDIANA  
DEPARTMENT OF TRANSPORTATION  
  
CONSTRUCTION DETAILS  
Line "PR-DE"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE -
VERTICAL SCALE N/A	DESIGNATION 1382612
SURVEY BOOK -	SHEETS --- of XX
CONTRACT R-36260	PROJECT 1382612







55+00

**CURVE DATA**  
 P.I. Sta 53+79.36 Line "PR-DE"  
 Delta = 52°36'32" XX  
 R = 840.00'  
 T = 415.23'  
 L = 771.29'  
 E = 97.03'  
 SE = X.XX%

OAKES, GARLAND G., ET UX.

Survey #15 of the Illinois Grant  
 Utica Township  
 Clark County, IN

+P.T. (+35.41)  
 60.00' Lt.

"PR-DE"  
 N 3°42'23" E

OAKES, GARLAND G., ET UX.

Survey #15 of the Illinois Grant  
 Utica Township  
 Clark County, IN

P.T. Sta. 57+35.41 Line "PR-DE"

+93.11  
 75.00' Rt.

Survey #16 of the Illinois Grant  
 Utica Township  
 Clark County, IN

+PL(+26.73)  
 130.00' Rt.

**LEGEND**

- (K1) Full Depth Pavement  
 165#/syd QC/QA-HMA, 4, 76, Surface, 9.5mm  
 275#/syd QC/QA-HMA, 4, 76, Intermediate, 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm  
 250#/syd QC/QA-HMA, 5, 76, Intermediate, OG 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm
- (30) Seeding, U

All R/W on this sheet to be as shown.  
 All R/W on this sheet taken from Line "PR-DE"  
 unless otherwise noted.  
 Line "PR-DE" to be constructed.



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RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____		DATE _____	
DESIGNED: JRA	DRAWN: EAM				
CHECKED: MAT	CHECKED: JRA				

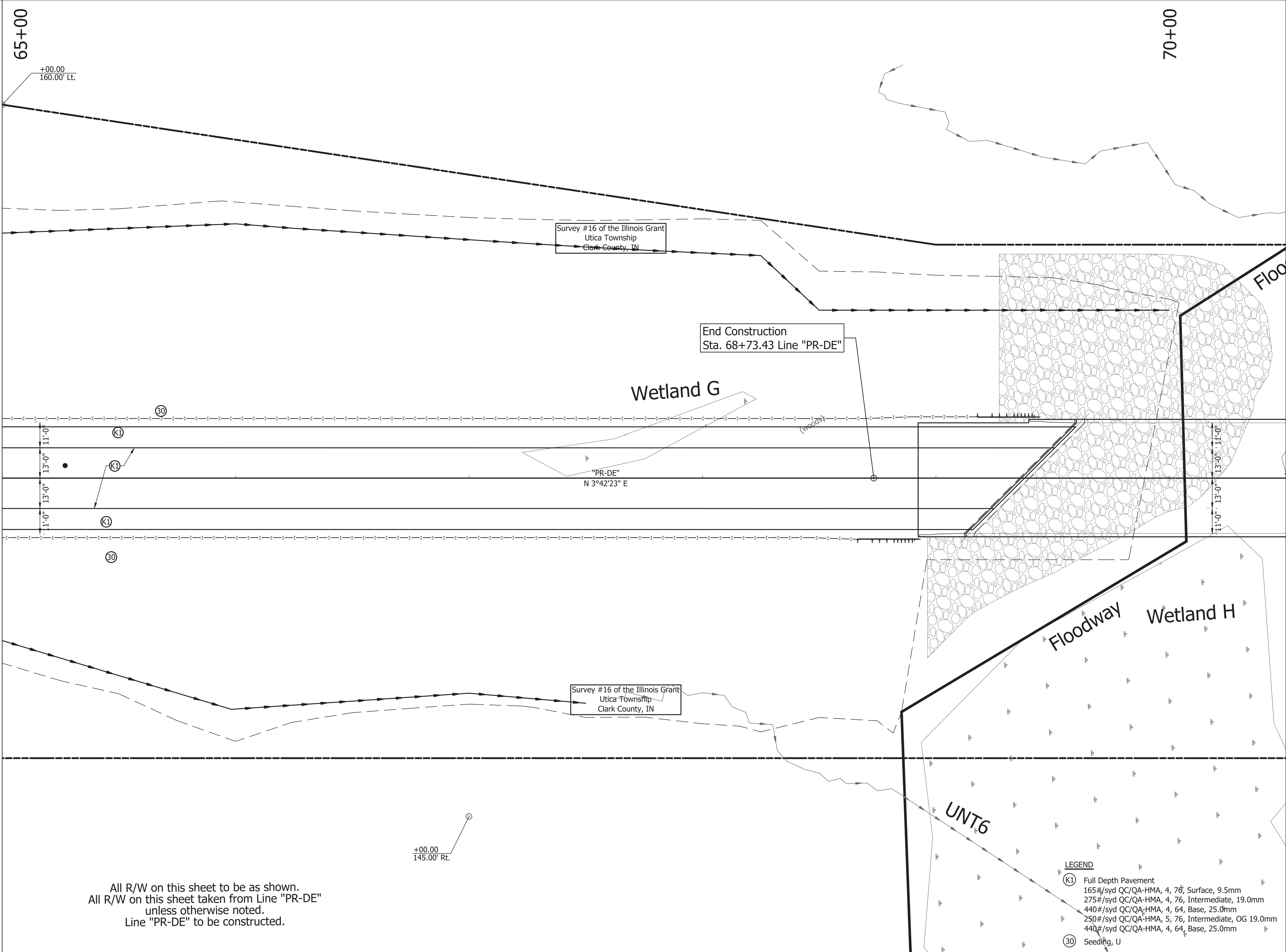
INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 CONSTRUCTION DETAILS  
 Line "PR-DE"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	-
VERTICAL SCALE	DESIGNATION
N/A	1382612
SURVEY BOOK	SHEETS
-	of XX
CONTRACT	PROJECT
R-36260	1382612









All R/W on this sheet to be as shown.  
 All R/W on this sheet taken from Line "PR-DE"  
 unless otherwise noted.  
 Line "PR-DE" to be constructed.

- LEGEND**
- (K1) Full Depth Pavement  
 165#/syd QC/QA-HMA, 4, 76, Surface, 9.5mm  
 275#/syd QC/QA-HMA, 4, 76, Intermediate, 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm  
 250#/syd QC/QA-HMA, 5, 76, Intermediate, OG 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm
  - (30) Seeding, U



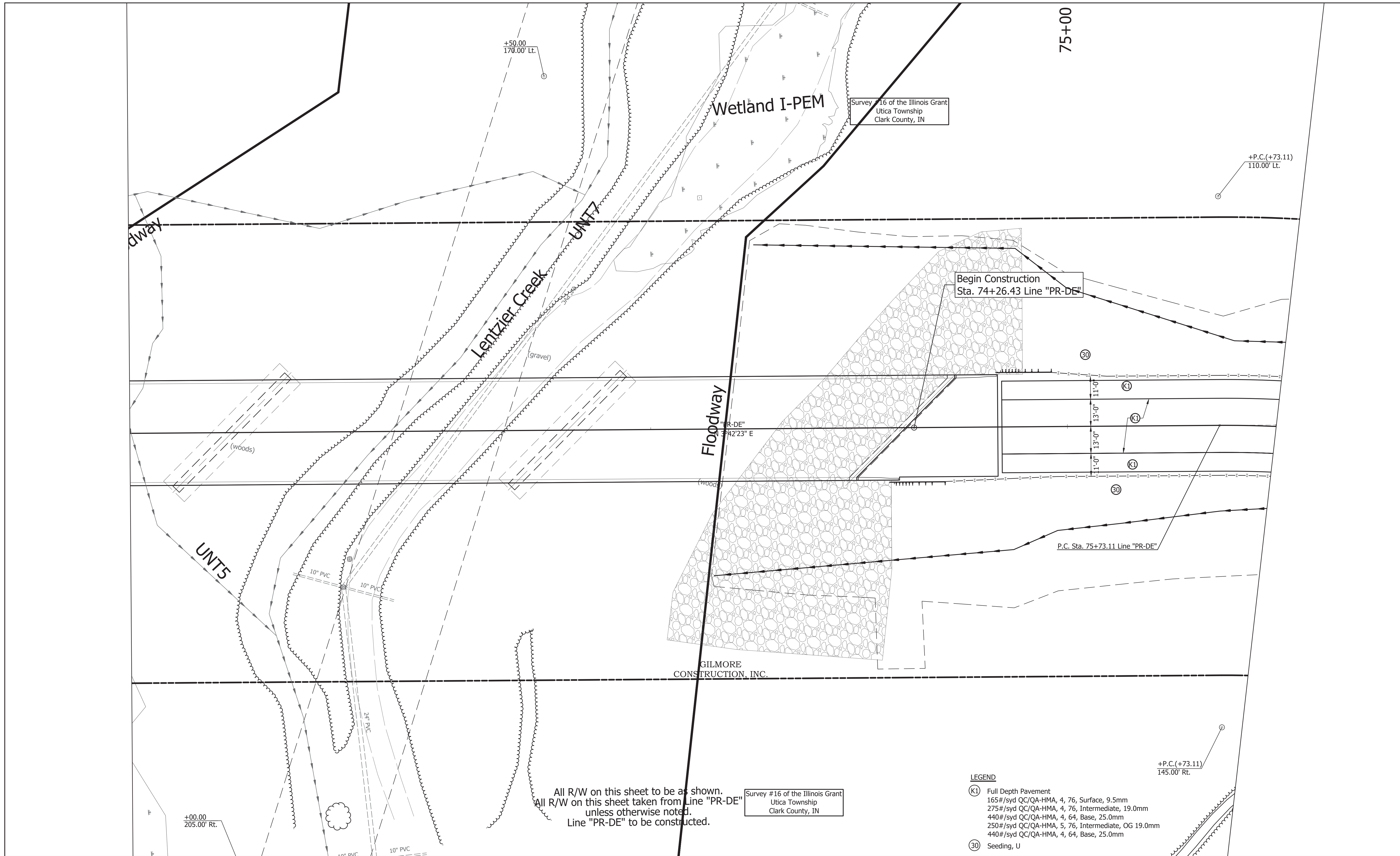
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JRA	DRAWN: EAM	
CHECKED: MAT	CHECKED: JRA	

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 CONSTRUCTION DETAILS  
 Line "PR-DE"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	-
VERTICAL SCALE	DESIGNATION
N/A	1382612
SURVEY BOOK	SHEETS
-	of XX
CONTRACT	PROJECT
R-36260	1382612





All R/W on this sheet to be as shown.  
 All R/W on this sheet taken from Line "PR-DE"  
 unless otherwise noted.  
 Line "PR-DE" to be constructed.

Survey #16 of the Illinois Grant  
 Utica Township  
 Clark County, IN

- LEGEND**
- (K1) Full Depth Pavement  
 165#/syd QC/QA-HMA, 4, 76, Surface, 9.5mm  
 275#/syd QC/QA-HMA, 4, 76, Intermediate, 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm  
 250#/syd QC/QA-HMA, 5, 76, Intermediate, OG 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm
  - (30) Seeding, U



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RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____ DATE _____	
DESIGNED: JRA	DRAWN: EAM		
CHECKED: MAT	CHECKED: JRA		

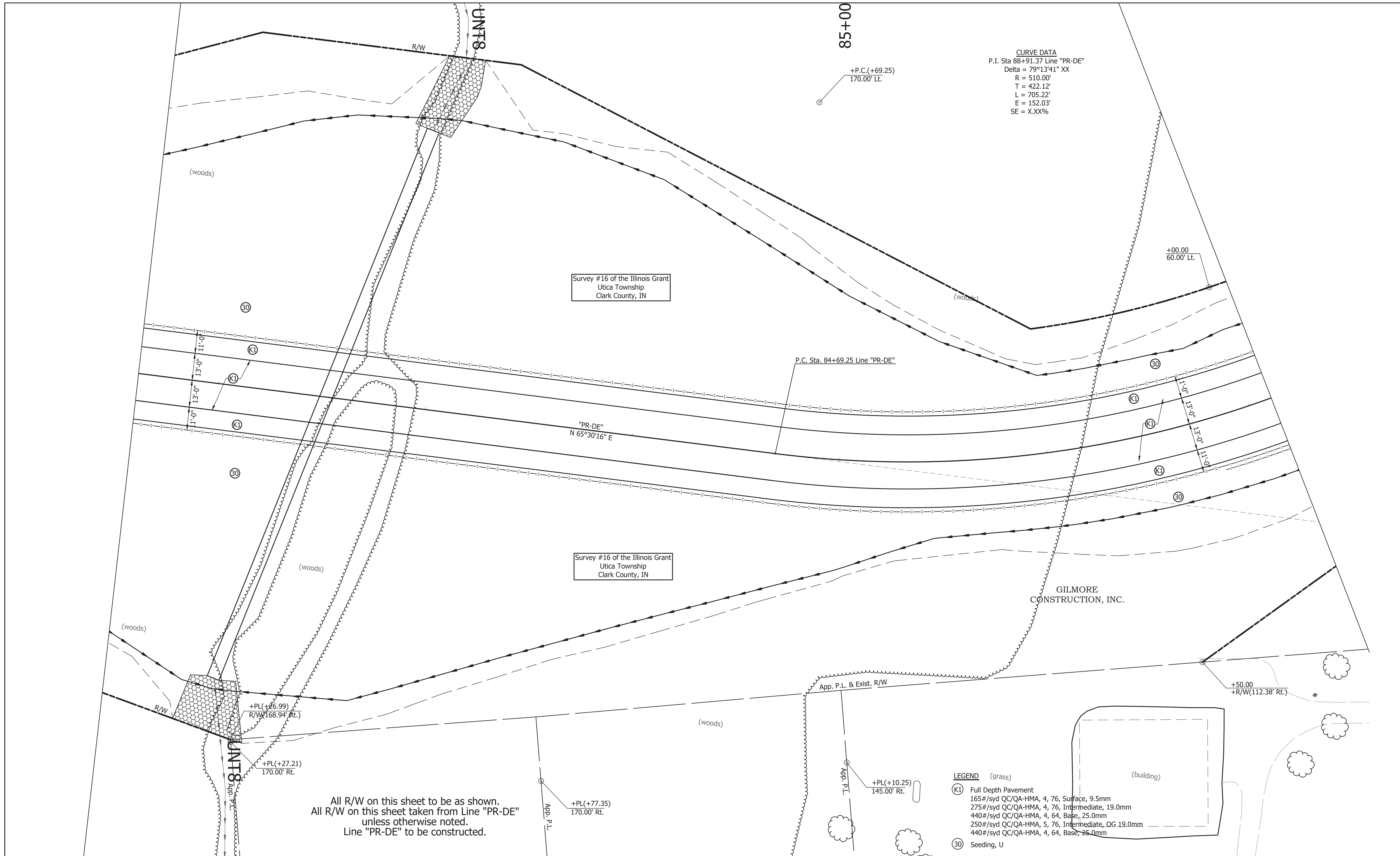
INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 CONSTRUCTION DETAILS  
 Line "PR-DE"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE -
VERTICAL SCALE N/A	DESIGNATION 1382612
SURVEY BOOK -	SHEETS --- of XX
CONTRACT R-36260	PROJECT 1382612









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 Line "PR-DE" to be constructed.



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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JRA	DRAWN: EAM	
CHECKED: MAT	CHECKED: JRA	

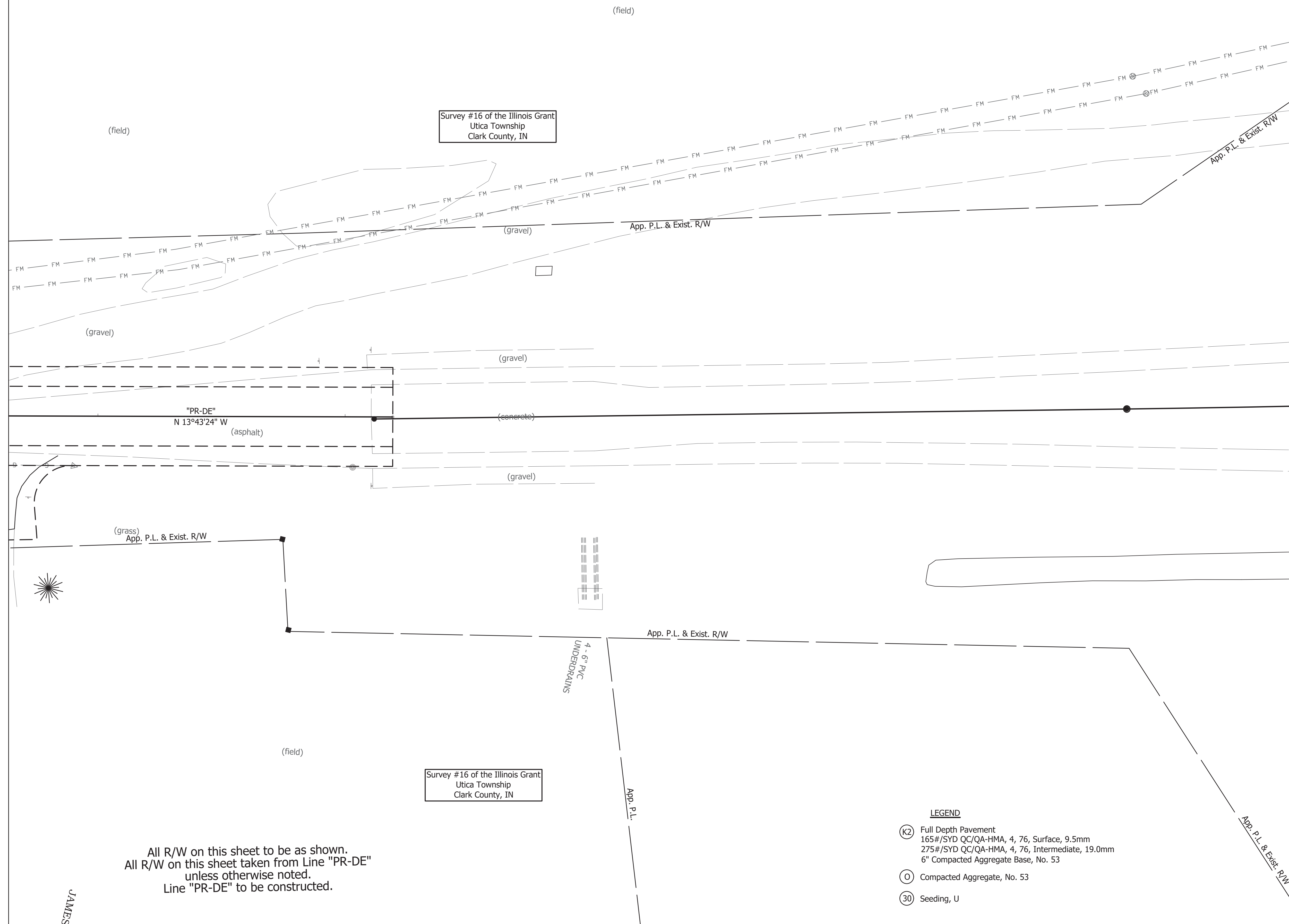
INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 CONSTRUCTION DETAILS  
 Line "PR-DE"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	-
VERTICAL SCALE	DESIGNATION
N/A	1382612
SURVEY BOOK	SHEETS
-	of XX
CONTRACT	PROJECT
R-36260	1382612









Survey #16 of the Illinois Grant  
Utica Township  
Clark County, IN

Survey #16 of the Illinois Grant  
Utica Township  
Clark County, IN

All R/W on this sheet to be as shown.  
All R/W on this sheet taken from Line "PR-DE"  
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Line "PR-DE" to be constructed.

- LEGEND**
- (K2) Full Depth Pavement  
165#/SYD QC/QA-HMA, 4, 76, Surface, 9.5mm  
275#/SYD QC/QA-HMA, 4, 76, Intermediate, 19.0mm  
6" Compacted Aggregate Base, No. 53
  - (O) Compacted Aggregate, No. 53
  - (30) Seeding, U

JAMES



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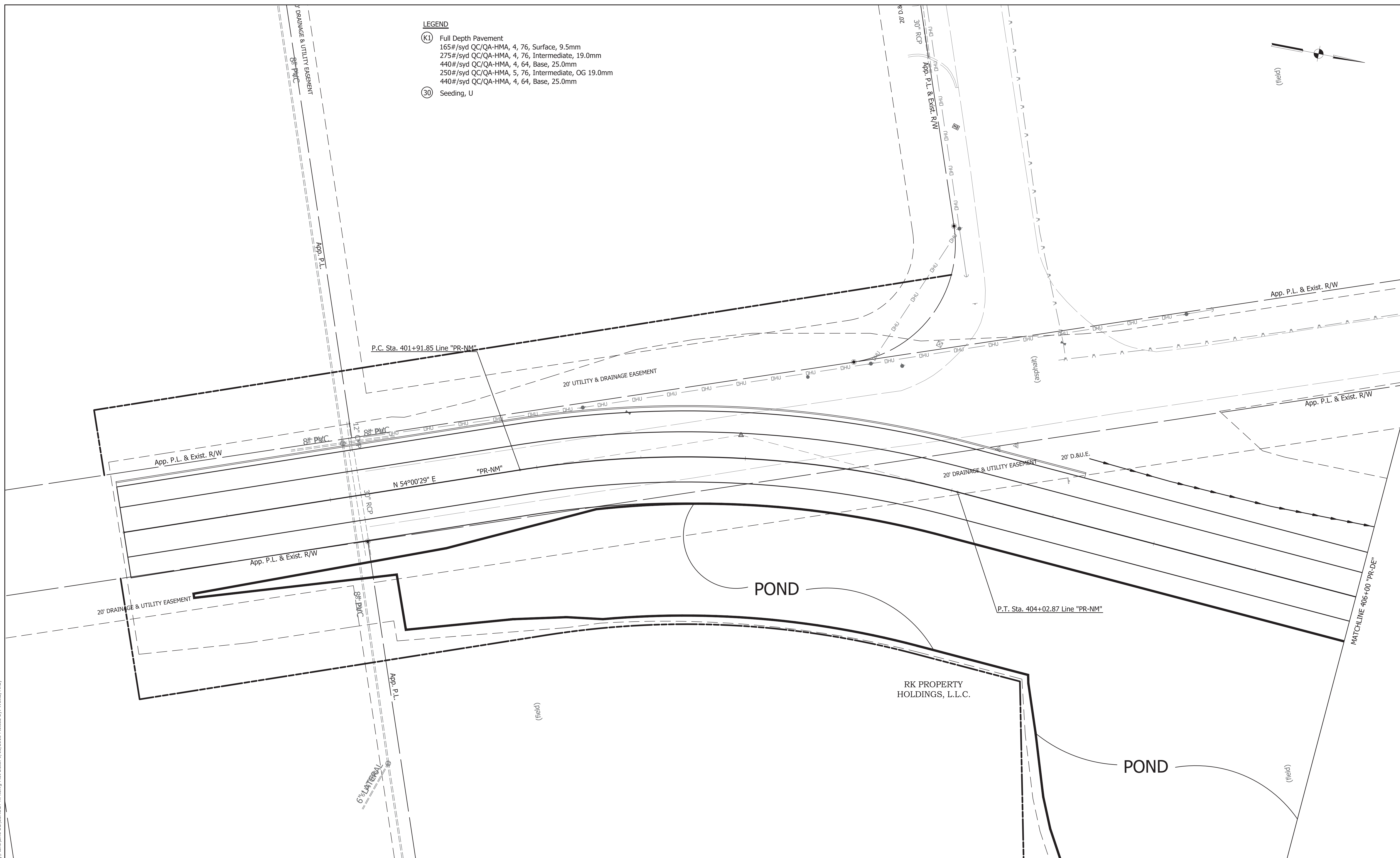
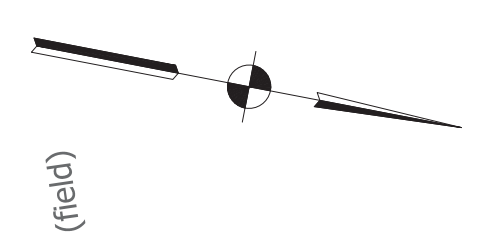
RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____ DATE _____	
DESIGNED: JRA	DRAWN: EAM		
CHECKED: MAT	CHECKED: JRA		

INDIANA  
DEPARTMENT OF TRANSPORTATION  
  
CONSTRUCTION DETAILS  
Line "PR-DE"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	-
VERTICAL SCALE	DESIGNATION
N/A	1382612
SURVEY BOOK	SHEETS
-	---- of XX
CONTRACT	PROJECT
R-36260	1382612



- LEGEND**
- (K1) Full Depth Pavement  
 165#/syd QC/QA-HMA, 4, 76, Surface, 9.5mm  
 275#/syd QC/QA-HMA, 4, 76, Intermediate, 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm  
 250#/syd QC/QA-HMA, 5, 76, Intermediate, OG 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm
  - (30) Seeding, U



File Name: P:\CDD\14-02\Road\Draw\Plans\Line\DE\CONDET\NM.dwg Plot Date: 9/18/2018 Plotted By: Wolke, Andy



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RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____ DATE _____	
DESIGNED: JRA	DRAWN: EAM		
CHECKED: MAT	CHECKED: JRA		

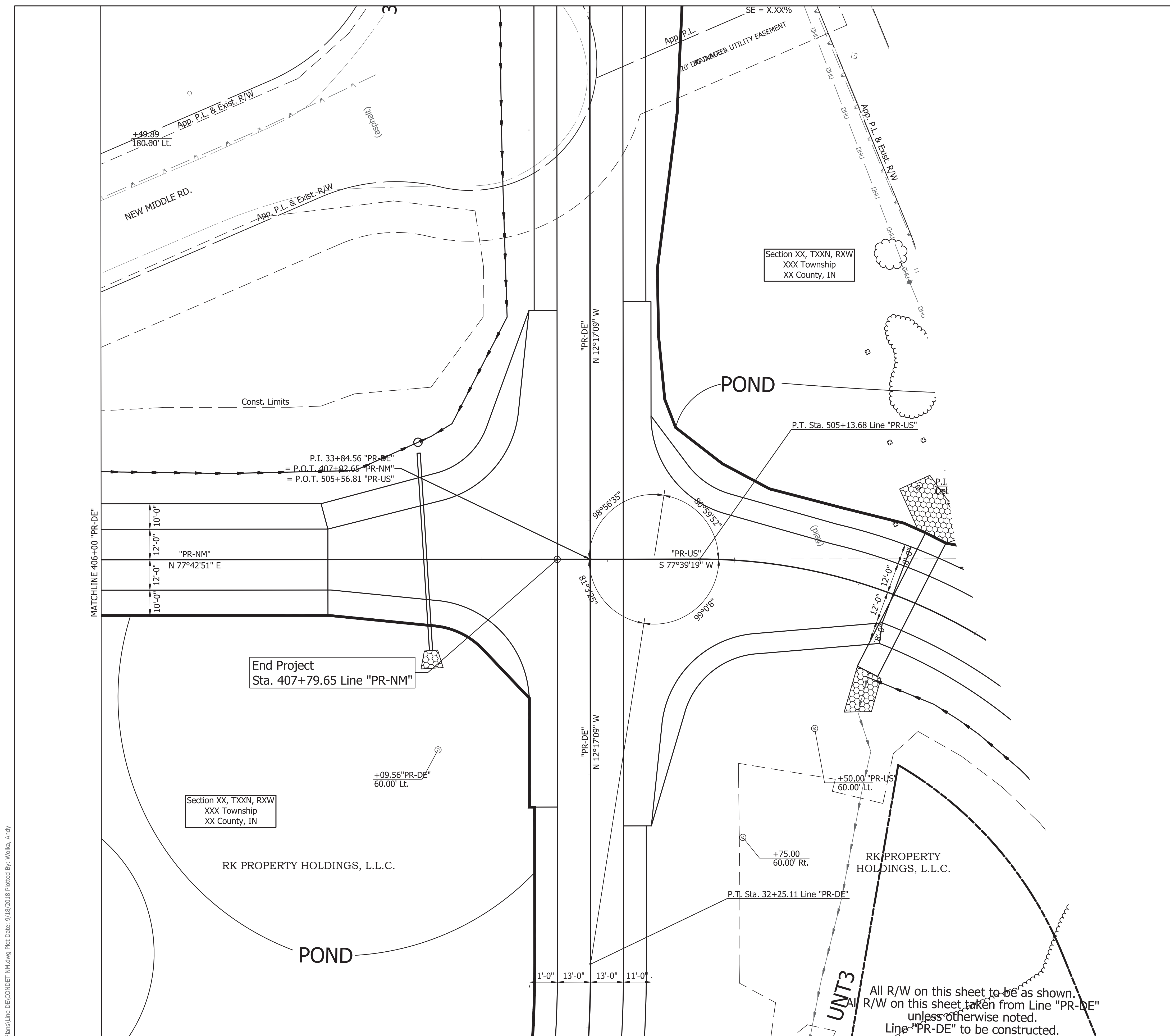
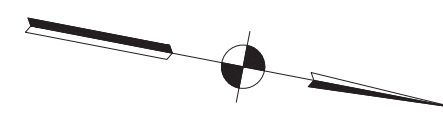
**INDIANA**  
 DEPARTMENT OF TRANSPORTATION

**CONSTRUCTION DETAILS**  
 Line "PR-NM"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	-
VERTICAL SCALE	DESIGNATION
N/A	1382612
SURVEY BOOK	SHEETS
-	of XX
CONTRACT	PROJECT
R-36260	1382612



- LEGEND**
- (K1) Full Depth Pavement
    - 165#/syd QC/QA-HMA, 4, 76, Surface, 9.5mm
    - 275#/syd QC/QA-HMA, 4, 76, Intermediate, 19.0mm
    - 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm
    - 250#/syd QC/QA-HMA, 5, 76, Intermediate, OG 19.0mm
    - 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm
  - (30) Seeding, U



Section XX, TXXN, RXW  
XXX Township  
XX County, IN

Section XX, TXXN, RXW  
XXX Township  
XX County, IN

RK PROPERTY HOLDINGS, L.L.C.

RK PROPERTY HOLDINGS, L.L.C.

All R/W on this sheet to be as shown.  
All R/W on this sheet taken from Line "PR-DE"  
unless otherwise noted.  
Line "PR-DE" to be constructed.

File Name: P:\CSD\14-402\Road\Drawings\Line DE\CONDET IM.dwg Plot Date: 9/18/2018 Plotted By: Wolke, Andy



1625 N. Post Road  
Indianapolis, IN 46219  
Phone 317-895-2585  
Fax 317-895-2596  
www.ucindy.com

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____ DATE _____	
DESIGNED: JRA	DRAWN: EAM		
CHECKED: MAT	CHECKED: JRA		

INDIANA  
DEPARTMENT OF TRANSPORTATION  
  
CONSTRUCTION DETAILS  
Line "PR-NM"

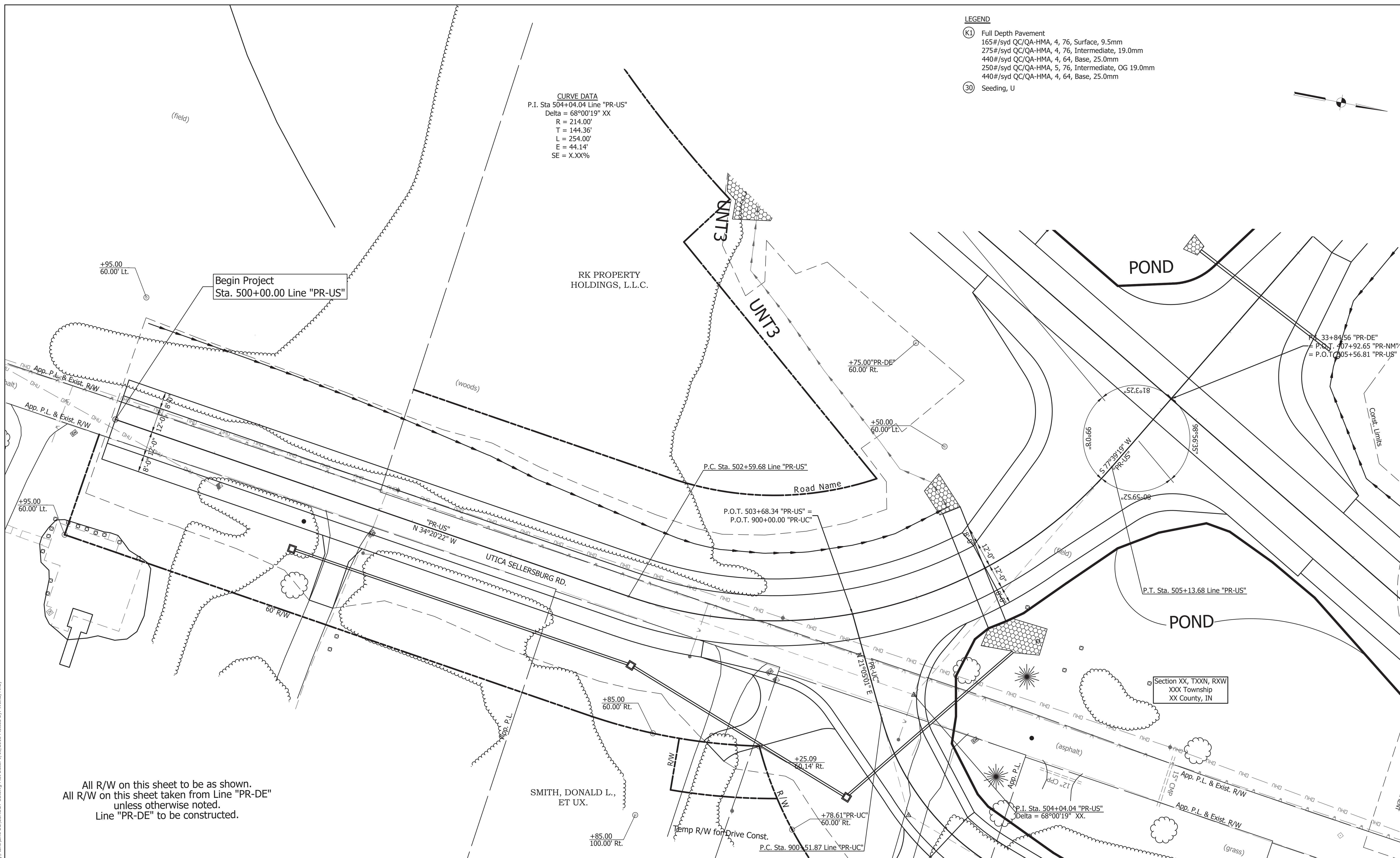
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1" = 20'	-
VERTICAL SCALE	DESIGNATION
N/A	1382612
SURVEY BOOK	SHEETS
-	---- of XX
CONTRACT	PROJECT
R-36260	1382612



**LEGEND**

- (K1) Full Depth Pavement  
 165#/syd QC/QA-HMA, 4, 76, Surface, 9.5mm  
 275#/syd QC/QA-HMA, 4, 76, Intermediate, 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm  
 250#/syd QC/QA-HMA, 5, 76, Intermediate, OG 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm
- (30) Seeding, U

**CURVE DATA**  
 P.I. Sta 504+04.04 Line "PR-US"  
 Delta = 68°00'19" XX  
 R = 214.00'  
 T = 144.36'  
 L = 254.00'  
 E = 44.14'  
 SE = X.XX%



Begin Project  
 Sta. 500+00.00 Line "PR-US"

UTICA SELLERSBURG RD.  
 "PR-US"  
 N 34°20'22" W

POND

POND

All R/W on this sheet to be as shown.  
 All R/W on this sheet taken from Line "PR-DE"  
 unless otherwise noted.  
 Line "PR-DE" to be constructed.

SMITH, DONALD L.,  
 ET UX.

File Name: P:\CDD\14-402\Road\Draw\Plans\Line DE\CONDIT US.dwg Plot Date: 9/18/2018 Plotted By: Volke, Andy



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 Indianapolis, IN 46219  
 Phone 317-895-2585  
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RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: JRA		DRAWN: EAM			
CHECKED: MAT		CHECKED: JRA			

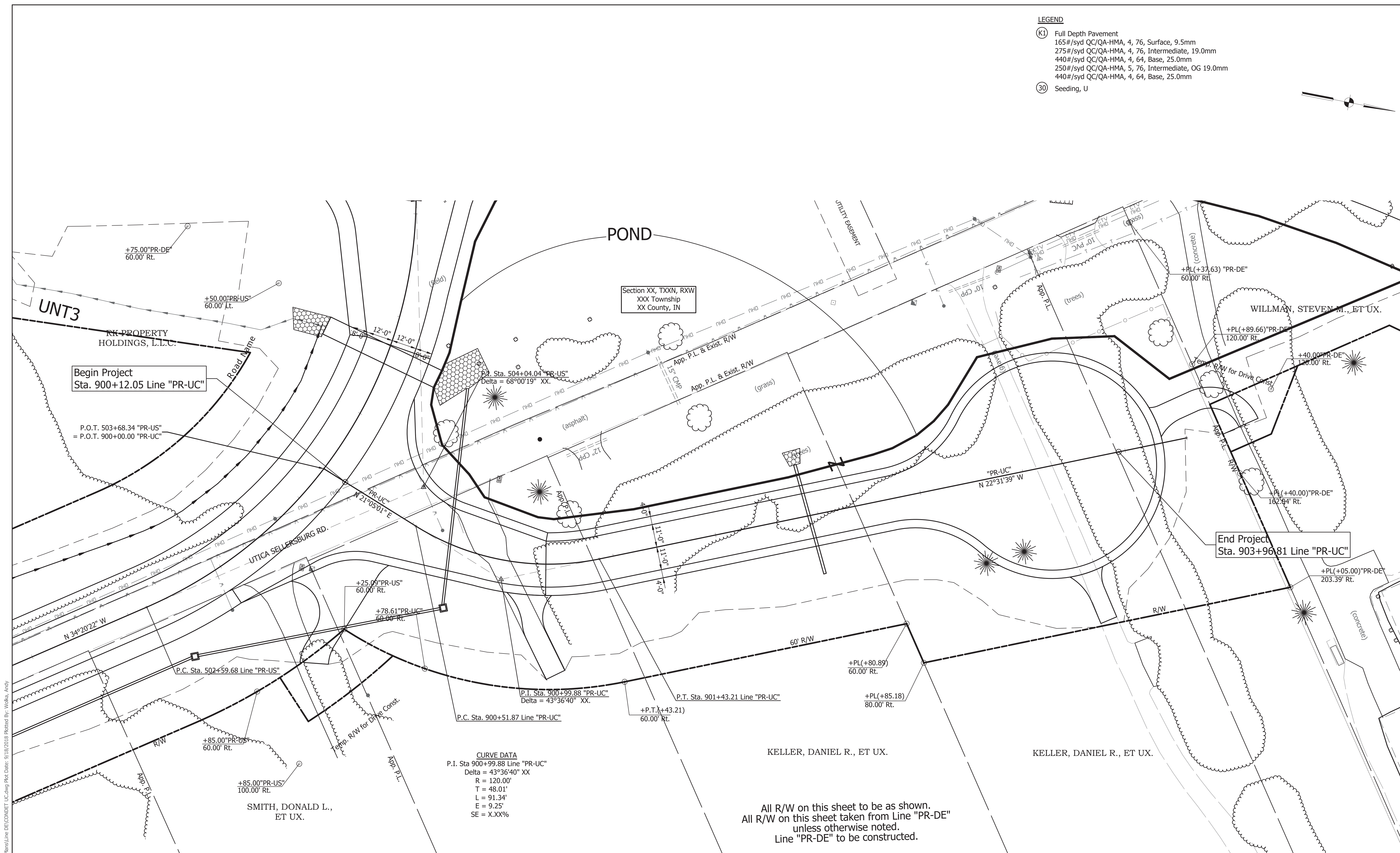
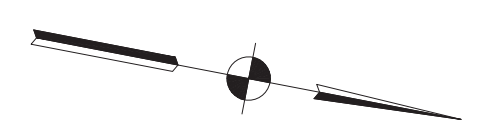
INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 CONSTRUCTION DETAILS  
 Line "PR-US"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	-
VERTICAL SCALE	DESIGNATION
N/A	1382612
SURVEY BOOK	SHEETS
-	of XX
CONTRACT	PROJECT
R-36260	1382612



**LEGEND**

- (K1) Full Depth Pavement  
 165#/syd QC/QA-HMA, 4, 76, Surface, 9.5mm  
 275#/syd QC/QA-HMA, 4, 76, Intermediate, 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm  
 250#/syd QC/QA-HMA, 5, 76, Intermediate, OG 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm
- (30) Seeding, U



**CURVE DATA**  
 P.I. Sta 900+99.88 Line "PR-UC"  
 Delta = 43°36'40" XX  
 R = 120.00'  
 T = 48.01'  
 L = 91.34'  
 E = 9.25'  
 SE = X.XX%

All R/W on this sheet to be as shown.  
 All R/W on this sheet taken from Line "PR-DE"  
 unless otherwise noted.  
 Line "PR-DE" to be constructed.

File Name: P:\CDD\14-402\Road\Drawings\Plans\Line\DE\CONDDET UC.dwg Plot Date: 9/18/2018 Plotted By: Wolke, Andy



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 Fax 317-895-2596  
 www.ucindy.com

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____		DATE _____	
DESIGNED: JRA	DRAWN: EAM				
CHECKED: MAT	CHECKED: JRA				

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
  
 CONSTRUCTION DETAILS  
 Line "PR-UC"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE -
VERTICAL SCALE N/A	DESIGNATION 1382612
SURVEY BOOK -	SHEETS of XX
CONTRACT R-36260	PROJECT 1382612



**STRUCTURE DATA**

STRUCTURE NUMBER	LOCATION						DESCRIPTION MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH LFT	VIDEO INSPECTION LENGTH LFT	SKEW	FLOW LINE				SITE DESIGNATION	PH	TOP OF CASTING	BACKFILL METHOD	STRUCTURE BACKFILL CY	TYPE	FLOWABLE BACKFILL CY	TYPE	TOP OF CASTING	REVETMENT RIPRAP TON	SCOUR PROTECTION					END ANCHOR			SAFETY METAL END SECTION			REMARKS		
	STATION	LEFT	RIGHT	MEDIAN	CROSS	OFFSET FT					SIZE IN	PIPE TYPE	COVER LFT	UP STREAM ELEV.											DOWN STREAM ELEV.	SERVICE LIFE YR.	SUMP DEPTH IN	GEOTEXTILES SYS	RIPRAP		SLOTTED DRAINS LFT	PIPE END SECTION EA.	END ANCHOR		SAFETY METAL END SECTION			
																													TON	EA.			EA.	EA.	TYPE		SLOPE	EA.
Line "PR-DE"																																						
1	19+00				X	36"	1				PIPE	81	81			466.51	466.19	75	A	7.0			3	80	REV	53	(Upstr)	2							UNT2			
2	20+85	X				42.6	3				PIPE	47	47			471.27	470.19	75	NA	7.0			3	10	REV	4	(Dnstr)	2										
12	25+51				X	121x77 (Smooth) or 137x87 (Corr)	1				PIPE	185	185			469.70	469.27	75	A	7.0			6	113	REV	70	(Upstr)			2						UNT3		
14	31+41				X	9' X 4'					BOX CULVERT	83				480.82	478.90						12	126	2	100	(Upstr)									UNT3		
9	37+00				X	6' X 4'					BOX CULVERT	88				492.82	489.81						6	25	2	16												
13	44+00		X			18"	3				PIPE	41	41			502.74	500.94	75	NA	7.0			3	10	REV	4			2									
10	55+32				X	36"	1				PIPE	216	216			513.53	480.47	75	NA	7.0			3	37	REV	20	(Upstr)	2										
11	82+52				X	72"	1				PIPE	284	284			459.06	455.47	75	A	7.0			6	115	2	102	(Upstr)			2						UNT8		
Line "PR-NM"																																						
3	407+30				X	15"	1				PIPE	81	81			483.30	482.74	75	NA	7.0			3	10	REV	4			2									
Line "PR-US"																																						
4	504+34				X	9' X 4'					BOX CULVERT	59				484.02	482.09						12	59	2	41	(Upstr)										UNT3	
8	501+00		X			31.0	2				INLET E-7	169	169			498.25	494.10	75	NA	7.0	501.25				31	2	19	(Dnstr)									7	
7	502+70		X			31.0	2				INLET F-7	119	119			494.10	488.43	75	NA	7.0	497.18																6	
Line "PR-UC"																																						
6	900+78		X			29.9	2				INLET E-7	106	106			488.43	485.65	75	NA	7.0	491.63																Riprap Included w/Str. No. 4	
5	902+45				X	18"	1				PIPE	54	54			490.51	490.33	75	NA	7.0			3	10	REV	4			2									

File Name: P:\C3D\14-402\Road\Draw\Plans\Line DE\Structure Data.dwg Plot Date: 9/18/2018 Plotted By: Wolka, Andy



1625 N. Post Road  
Indianapolis, IN 46219  
Phone 317-895-2585  
Fax 317-895-2596  
www.ucindy.com

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____		DATE _____	
DESIGNED: ESH	DRAWN: ESH				
CHECKED: JRA	CHECKED: JRA				

**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**

**STRUCTURE DATA TABLE**  
**HEAVY HAUL ROAD**

HORIZONTAL SCALE NA	BRIDGE FILE -
VERTICAL SCALE NA	DESIGNATION 1382612
SURVEY BOOK -	SHEETS of
CONTRACT R-36260	PROJECT 1382612



PROJECT	DESIGNATION
1382612	1702513
CONTRACT	BRIDGE FILE
R-36260	10-00418

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
10-00418	CONTINUOUS COMPOSITE PRESTRESSED CONCRETE BULB-T BEAM	THREE SPANS: 161'-0", 161'-0", 161'-0" SKEW 45°00'00" RIGHT	LENTZIER CREEK	71+79.50 "PR-DE"

# INDIANA DEPARTMENT OF TRANSPORTATION



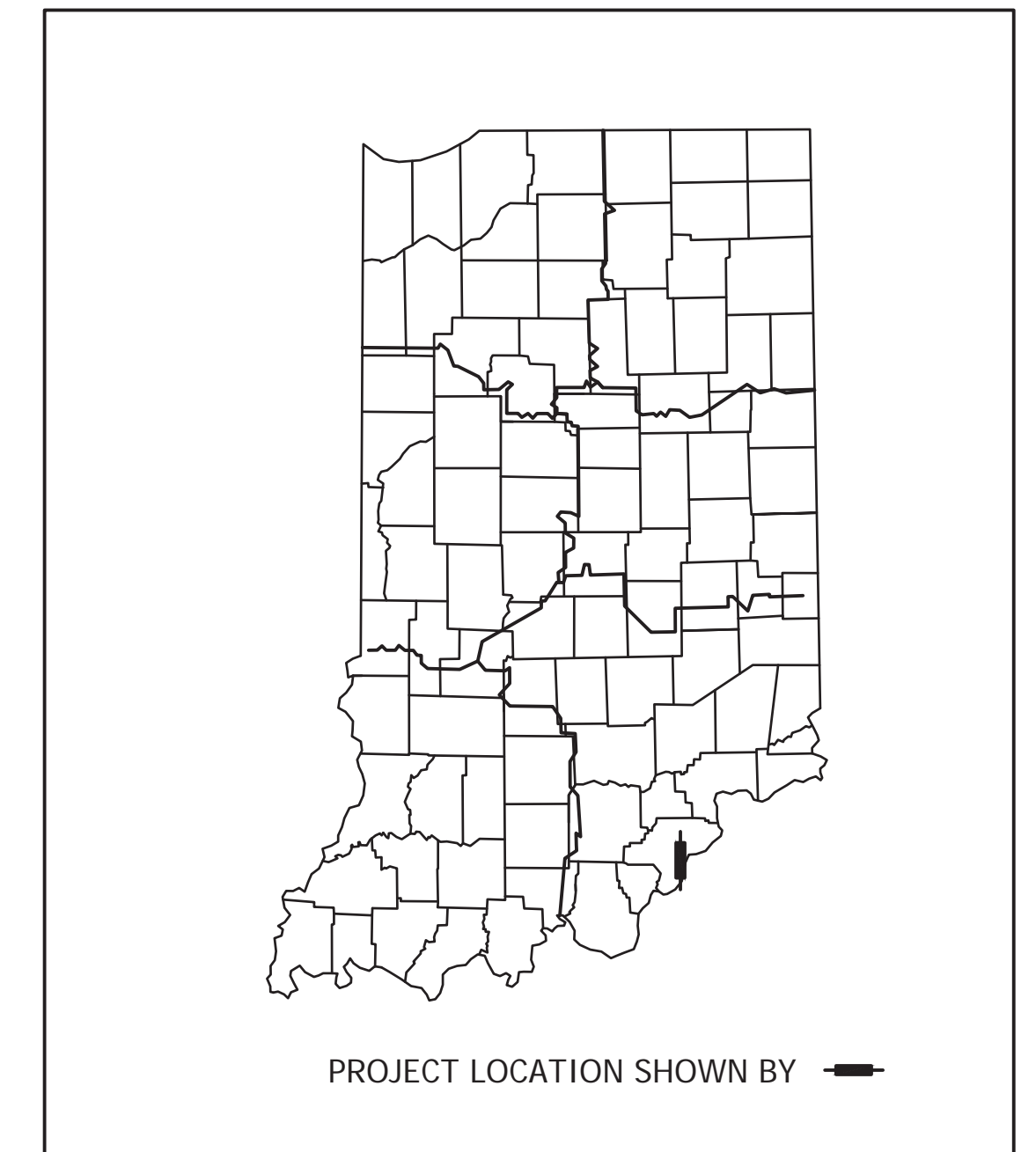
## BRIDGE PLANS

FOR SPANS OVER 20 FEET  
HEAVY HAUL TRANSPORTATION CORRIDOR  
OVER  
LENTZIER CREEK

PROJECT NO. 1382612 P.E.  
1382612 R/W  
1382612 CONST.  
RP XX+XX

New bridge construction to support development of the River Ridge Commerce Center and the Port of Indiana located in Survey 15 & 16 of the Illinois Grant, Utica Township, Clark County, Indiana.

TRAFFIC DATA	TRANSPORTATION CORRIDOR
A.D.T. (2020)	8,800 V.P.D.
A.D.T. (2040)	16,700 V.P.D.
DIRECTIONAL DISTRIBUTION	50%
TRUCKS A.D.T.T. (2020)	2,552 V.P.D.
A.D.T.T. (2040)	4,843 V.P.D.
DESIGN DATA	
DESIGN SPEED	35 M.P.H.
PROJECT DESIGN CRITERIA	NEW CONSTRUCTION (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL
RURAL/URBAN	URBAN (SUBURBAN)
TERRAIN	ROLLING
ACCESS CONTROL	NONE



LATITUDE: 38°20'17"N LONGITUDE: 85°40'12"W

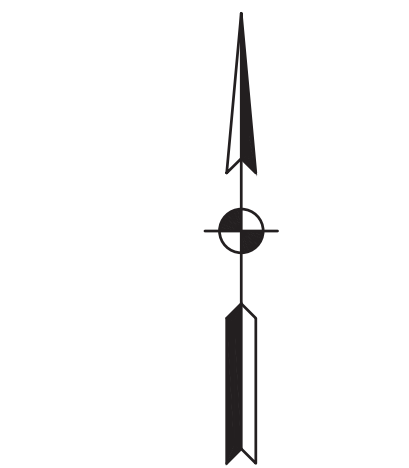
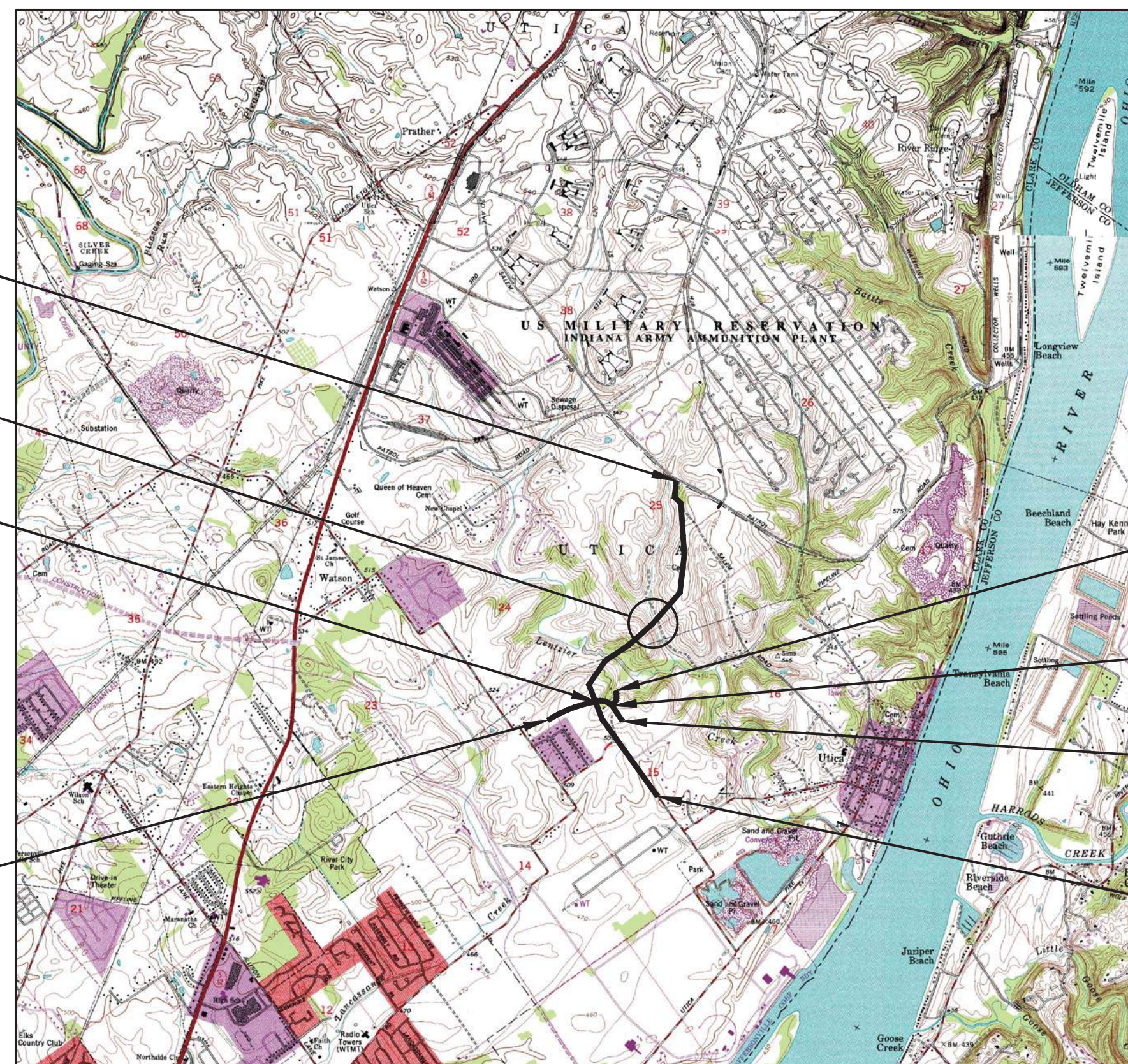
BRIDGE LENGTH : 0.11 MI.  
ROADWAY LENGTH : 1.37 MI.  
TOTAL LENGTH : 1.48 MI.  
MAX GRADE : 5.0%

END PROJECT  
HEAVY HAUL CORRIDOR  
88+32.65 LINE "PR-DE"

BRIDGE OVER LENTZIER CREEK  
71+49.93 LINE "PR-DE"

END CONSTRUCTION  
407+92.65 LINE "PR-NM" =  
505+56.87 LINE "PR-US"

BEGIN CONSTRUCTION  
400+00.00 LINE "PR-NM"



SCALE: 1" = 4000'

END CONSTRUCTION  
903+96.81 LINE "PR-UC"

BEGIN CONSTRUCTION  
900+00.00 LINE "PR-UC"

BEGIN CONSTRUCTION  
500+00.00 LINE "PR-US"

BEGIN PROJECT  
HEAVY HAUL CORRIDOR  
10+00.00 LINE "PR-DE"

[INDIANA DEPARTMENT OF TRANSPORTATION  
STANDARD SPECIFICATIONS DATED 2018 TO BE  
USED WITH THESE PLANS]

File Name: P:\C3D\14-402\Bridges\Bridges over Lentzier Creek\Drawings\Plans\Title Sheet Line DE.dwg Plot Date: 7/30/2018 Plotted By: Moffatt, Andrew J.



8440 Allison Pointe Boulevard, Suite 200  
Indianapolis, IN 46250  
Phone 317-895-2585  
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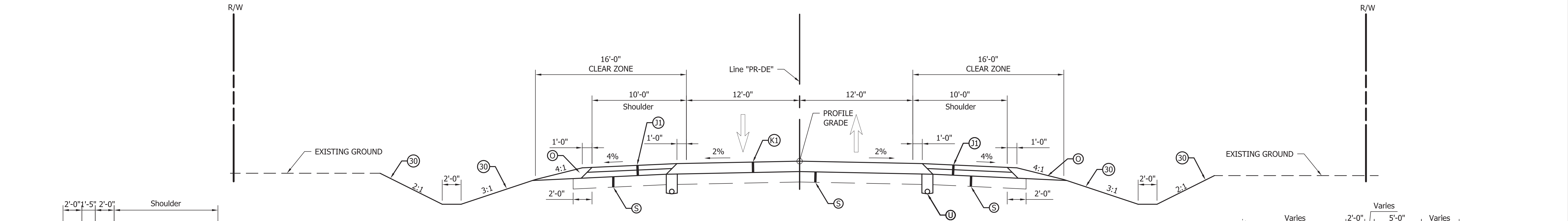
PLANS PREPARED BY:	UNITED CONSULTING	(317) 895-2585
		PHONE NUMBER
CERTIFIED BY:		DATE
APPROVED FOR LETTING:	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

BRIDGE FILE	
10-00418	
DESIGNATION	
1702513	
SURVEY BOOK	SHEETS
1	of 8
CONTRACT	PROJECT
R-36260	1382612



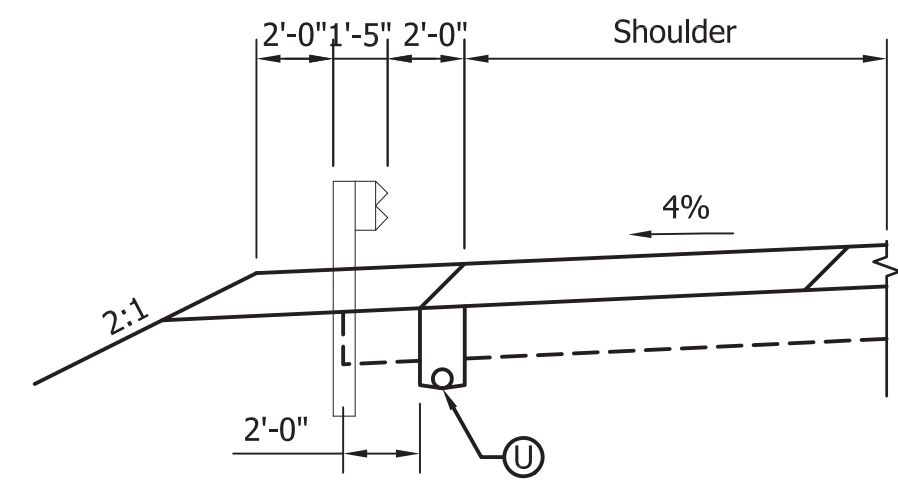




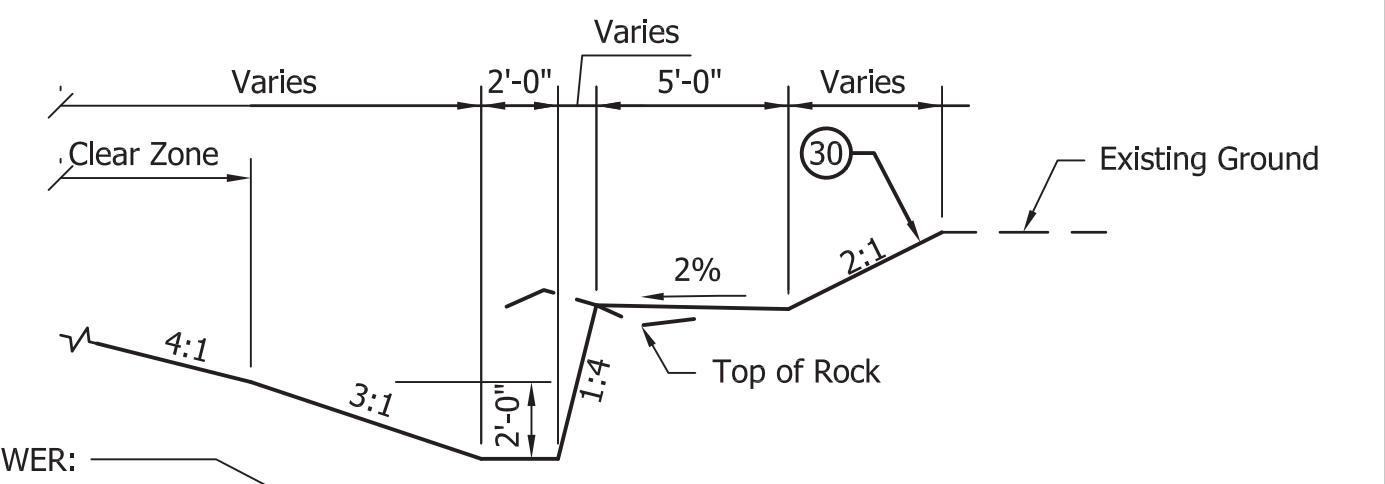


**TYPICAL SECTION**

Sta. 16+00.00 to Sta. 23+85.00 "PR-DE"  
 Sta. 44+60.00 to Sta. 48+25.00 "PR-DE"  
 Sta. 58+75.00 to Sta. 66+24.00 "PR-DE"  
 Sta. 85+05.00 to Sta. 88+44.24 "PR-DE"

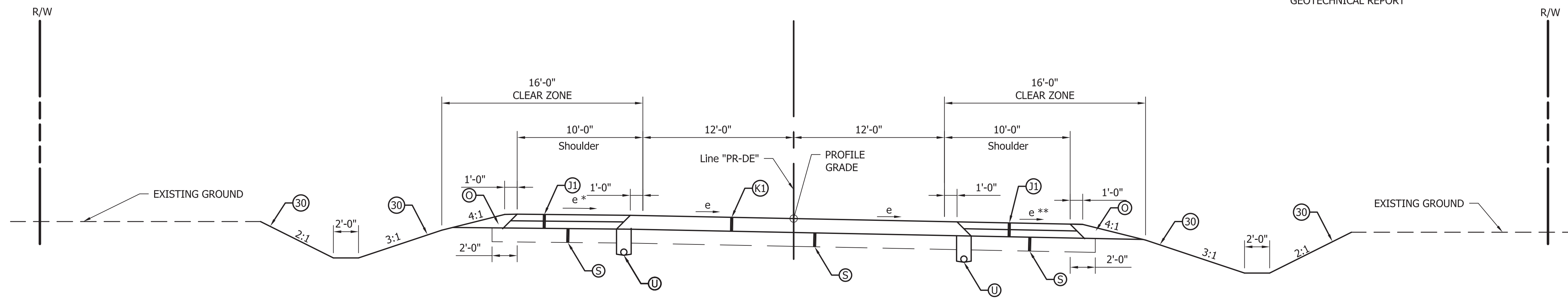


**TYPICAL GUARDRAIL SECTION**



**TYPICAL ROCK CUT DITCH**

NOTE TO REVIEWER:  
 LIMITS TO BE DETERMINED  
 AFTER WE RECEIVE THE  
 GEOTECHNICAL REPORT

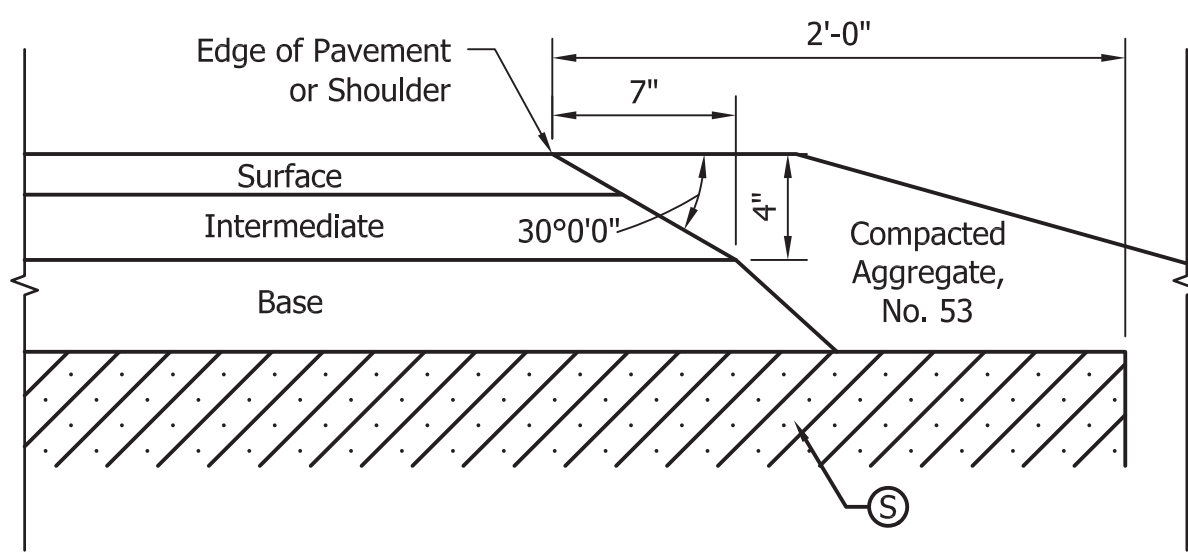


**SUPERELEVATION SECTION**

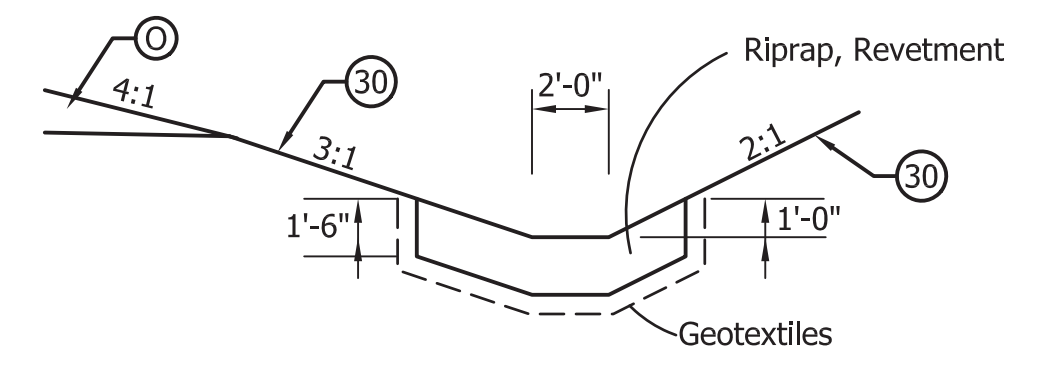
Sta. 23+85.00 to Sta. 44+60.00 "PR-DE"  
 Sta. 48+25.00 to Sta. 58+75.00 "PR-DE"  
 Sta. 66+24.00 to Sta. 85+05.00 "PR-DE"

Curve to the right shown, curves to the left reversed.

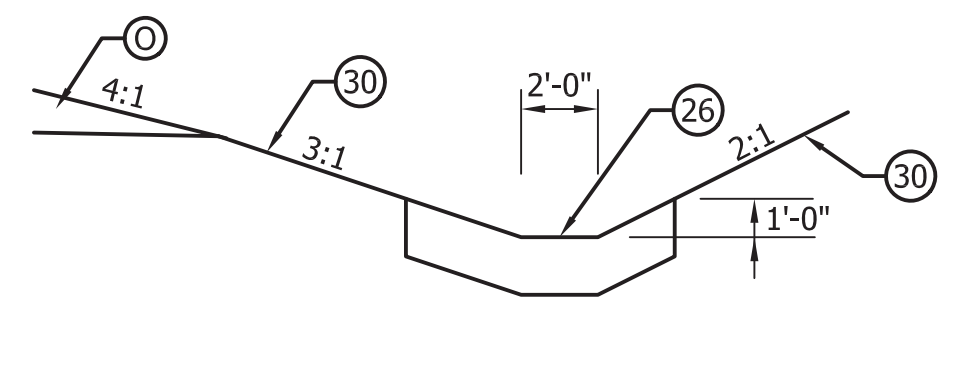
\* High Side Shoulder - If e is 4% or less, grade shoulder at 4% down.  
 If e is greater than 4% and less than or equal to 6%, grade shoulder at 2% down.  
 If e greater than 6%, grade shoulder at 1% up.  
 \*\* Low Side Shoulder - If e is 4% or less, grade shoulder at 4% down.  
 If e is greater than 4%, grade shoulder in plane with the mainline pavement.



**SAFETY EDGE DETAIL (NOT TO SCALE)**



**DITCH LINING - RIPRAP**



**DITCH LINING - SODDING**

**LEGEND**

- (K1) Full-Depth Pavement  
 165#/syd QC/QA-HMA, 4, 76, Surface, 9.5mm  
 275#/syd QC/QA-HMA, 4, 76, Intermediate, 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm  
 250#/syd QC/QA-HMA, 5, 76, Intermediate, OG 19.0mm  
 440#/syd QC/QA-HMA, 4, 64, Base, 25.0mm
- (J1) Full-Depth Shoulder  
 165#/syd QC/QA-HMA, 4, 76, Surface, 9.5mm  
 495#/syd QC/QA-HMA, 4, 76, Intermediate, 19.0mm  
 8.5" Compacted Aggregate, No. 53
- (O) Compacted Aggregate, No. 53
- (S) Subgrade Treatment, Type IB (Lime)
- (U) Underdrains
- (30) Seeding, U
- (26) Sodding

FOR INFORMATION ONLY  
 (SEE ROAD PLANS)



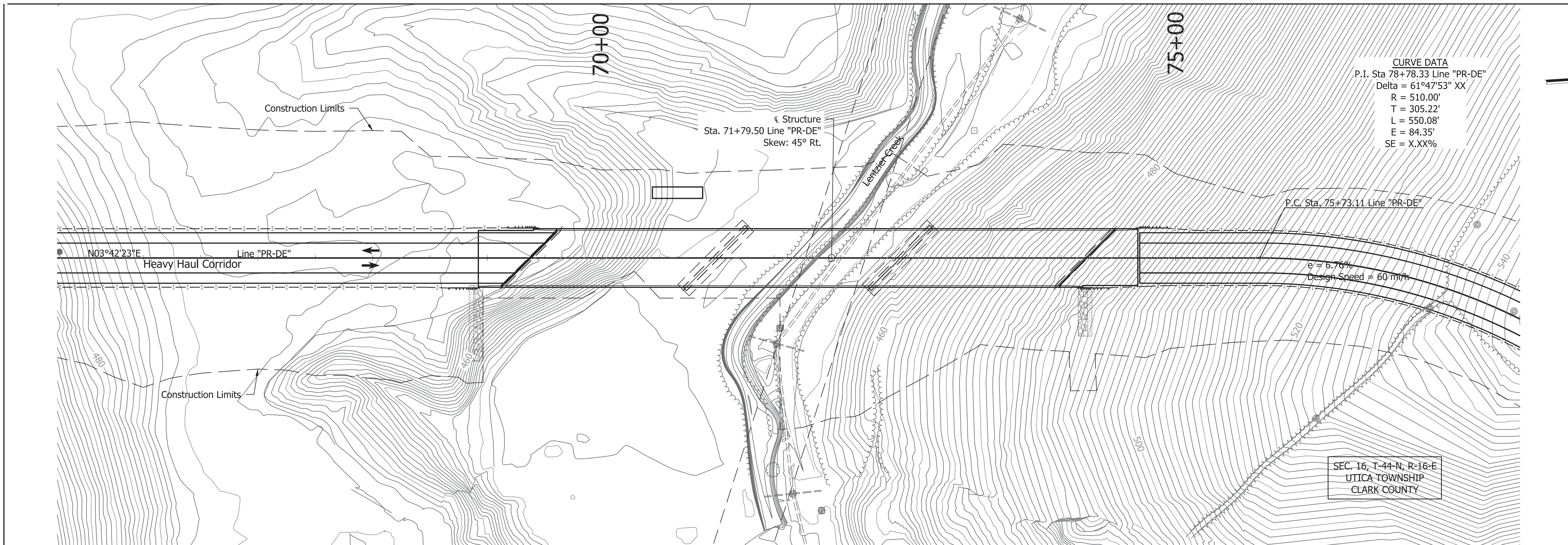
1625 N. Post Road  
 Indianapolis, IN 46219  
 Phone 317-895-2585  
 Fax 317-895-2596  
 www.ucindy.com

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JRA	DRAWN: EAM	
CHECKED: MAT	CHECKED: MAT	

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 TYPICAL CROSS SECTIONS  
 TRANSPORTATION CORRIDOR

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE XX
VERTICAL SCALE 1" = 5'	DESIGNATION 1382612
SURVEY BOOK	SHEETS
	3 of XX
CONTRACT R-36260	PROJECT 1382612





**EXISTING STRUCTURE**  
NONE

**HYDRAULIC DATA**

Drainage Area:	5.3 sq. mi.
1% Annual EP Elevation:	452.95 (NAVD)
1% Annual EP Flow:	1,700 cfs
0.2% Annual EP Elevation:	454.15 (NAVD)
0.2% Annual EP Flow:	2,380 cfs

**PROPOSED STRUCTURE HYDRAULIC SUMMARY**

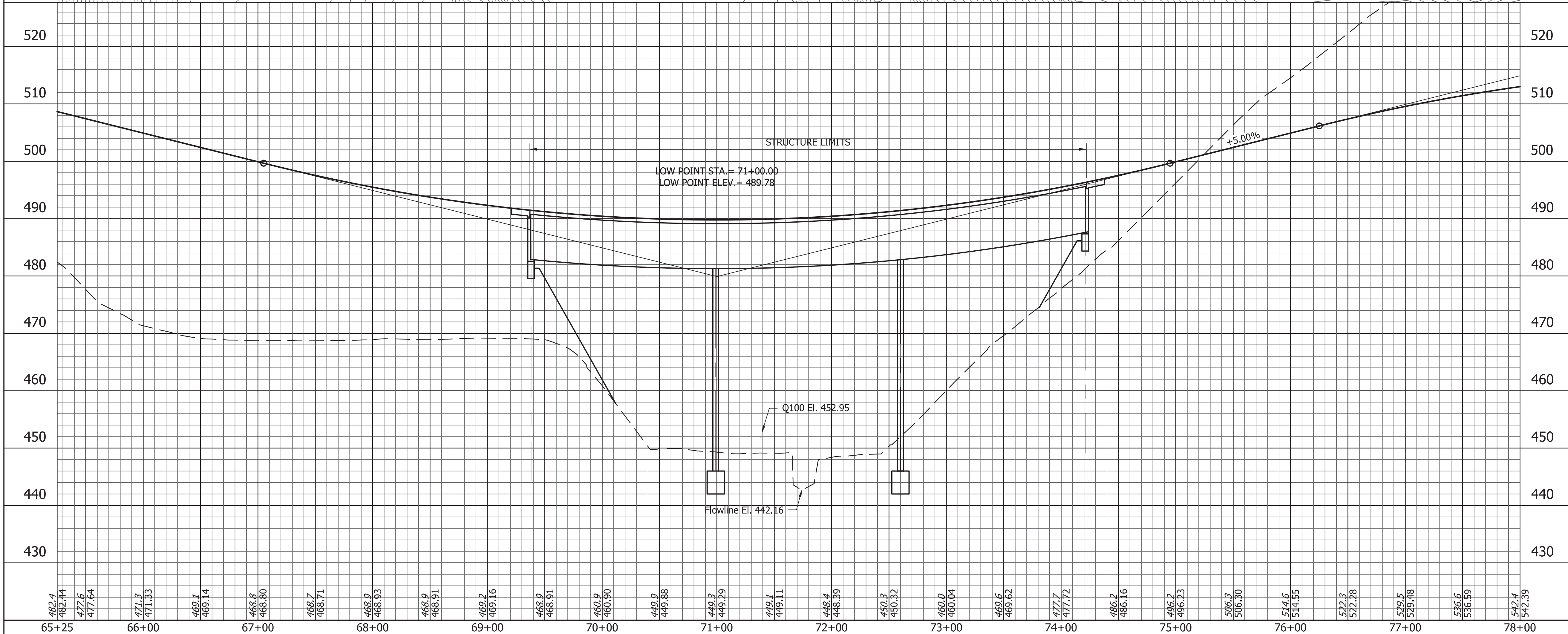
Minimum Low Structure Elevation:	488.5 (NAVD)
Gross Waterway Area Opening Below	0.0 ft
1% Annual EP:	762 sft
1% Annual EP Road Overflow Area:	0 sft
1% Annual EP Average Velocity:	2.58 fps
1% Annual EP Backwater:	0.12 ft
0.2% Annual EP Average Velocity:	2.78 fps
0.2% Annual EP Backwater:	0.14 ft

**PROPOSED STRUCTURE SCOUR SUMMARY**

Flow Line Elevation:	442.16 (NAVD)
1% Annual EP Contraction Scour:	0.0 ft
1% Annual EP Total Scour:	8.0 ft
1% Annual EP Low Scour Elevation:	434.16 (NAVD)
1% Annual EP Maximum Velocity:	6.07 fps
0.2% Annual EP Contraction Scour:	0.0 ft
0.2% Annual EP Total Scour:	8.0 ft
0.2% Annual EP Low Scour Elevation:	434.16 (NAVD)
0.2% Annual EP Maximum Velocity:	6.43 fps

**NOTES:**  
For guardrail limits and side ditch grades, see Road Plan and Profile Sheet.  
For alignment references, benchmarks, and topo references, see Road Plans.

**HEAVY HAUL CORRIDOR  
OVER LENTZIER CREEK  
CONTINUOUS COMPOSITE PRESTRESSED  
CONCRETE BULB-T BEAM BRIDGE  
3 SPANS: 161'-0", 161'-0", 161'-0"  
SKEW: 45°00'00" RT  
48'-0" CLEAR ROADWAY  
CLARK COUNTY**



File Name: P:\CSD\14-02\Bridges\Bridge over Lentsier Creek\Drawings\Layout.dwg Plot Date: 7/20/2018 Plotted By: Kocher, Nick

**UNITED Consulting**  
8440 Allison Pointe Boulevard, Suite 200  
Indianapolis, IN 46250  
Phone 317-895-2585  
www.ucindy.com

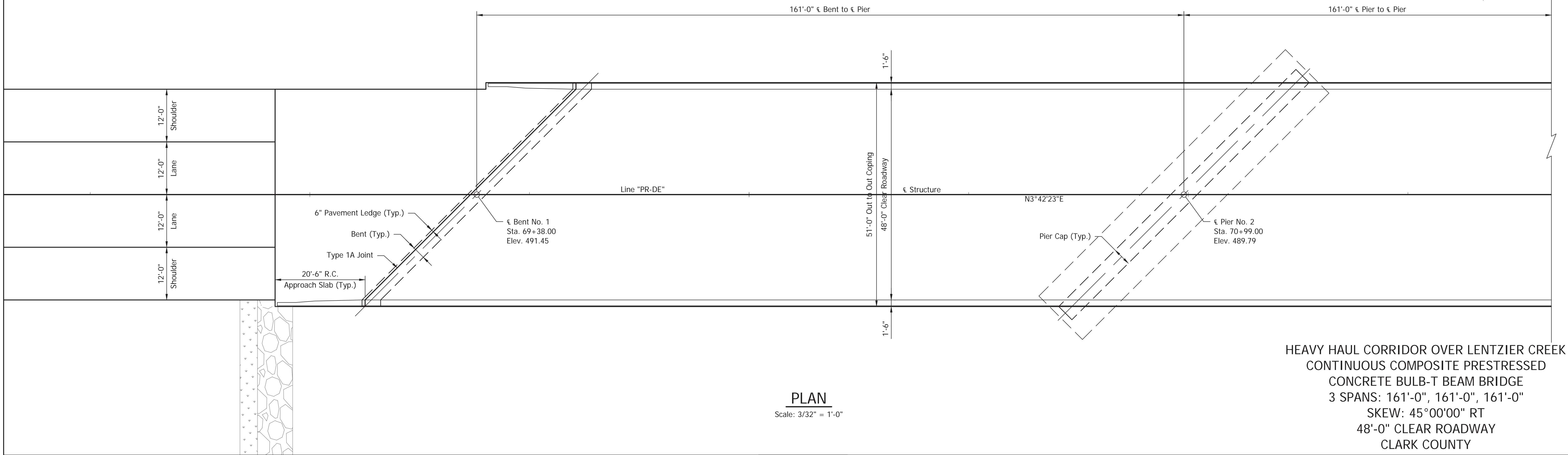
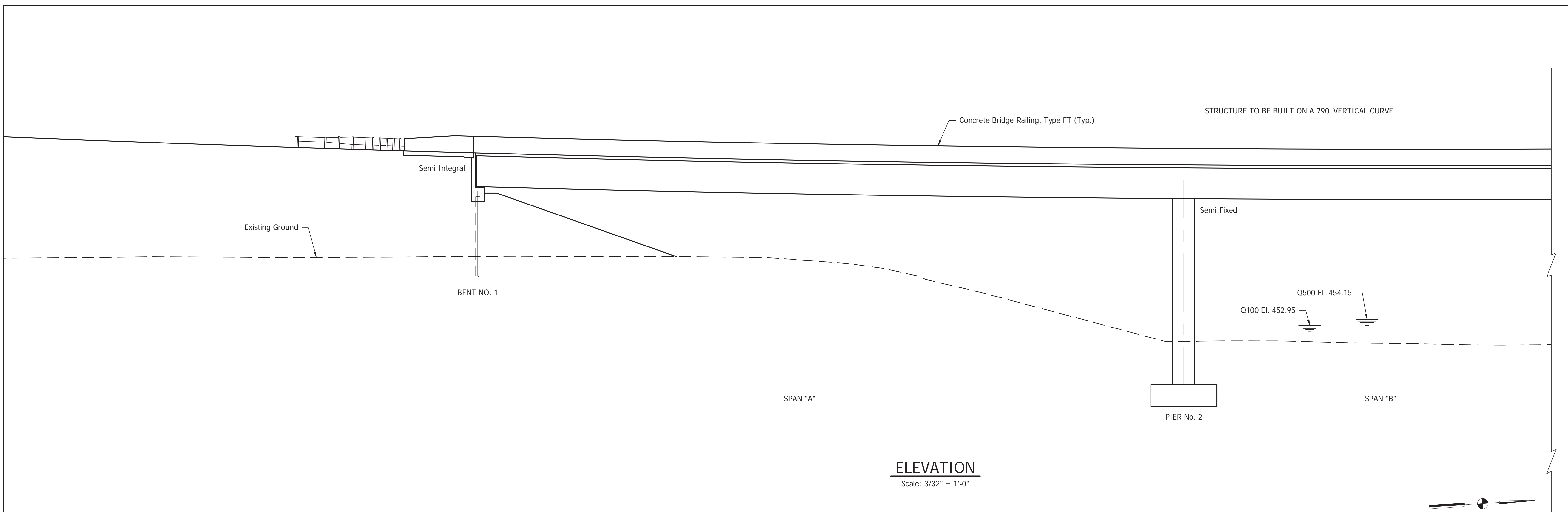
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: CJA	DRAWN: AJM	
CHECKED: SGM	CHECKED: CJA	

INDIANA  
DEPARTMENT OF TRANSPORTATION  
**LAYOUT**  
HEAVY HAUL ROAD OVER LENTZIER CREEK

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE 10-00418
VERTICAL SCALE 1" = 10'	DESIGNATION 1702513
SURVEY BOOK	SHEETS
	4 of 8
CONTRACT R-36260	PROJECT 1382612



File Name: P:\C3D\14-402\Bridges\Bridges over Lentzier Creek\Drawings\Plans\General Plan.dwg Plot Date: 7/30/2018 Plotted By: Mofiaff, Andrew J.



**HEAVY HAUL CORRIDOR OVER LENTZIER CREEK**  
**CONTINUOUS COMPOSITE PRESTRESSED**  
**CONCRETE BULB-T BEAM BRIDGE**  
 3 SPANS: 161'-0", 161'-0", 161'-0"  
 SKEW: 45°00'00" RT  
 48'-0" CLEAR ROADWAY  
 CLARK COUNTY



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 Indianapolis, IN 46250  
 Phone 317-895-2585  
 www.ucindy.com

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	DATE
DESIGNED: CJA	DRAWN: AJM		
CHECKED: SGM	CHECKED: CJA		

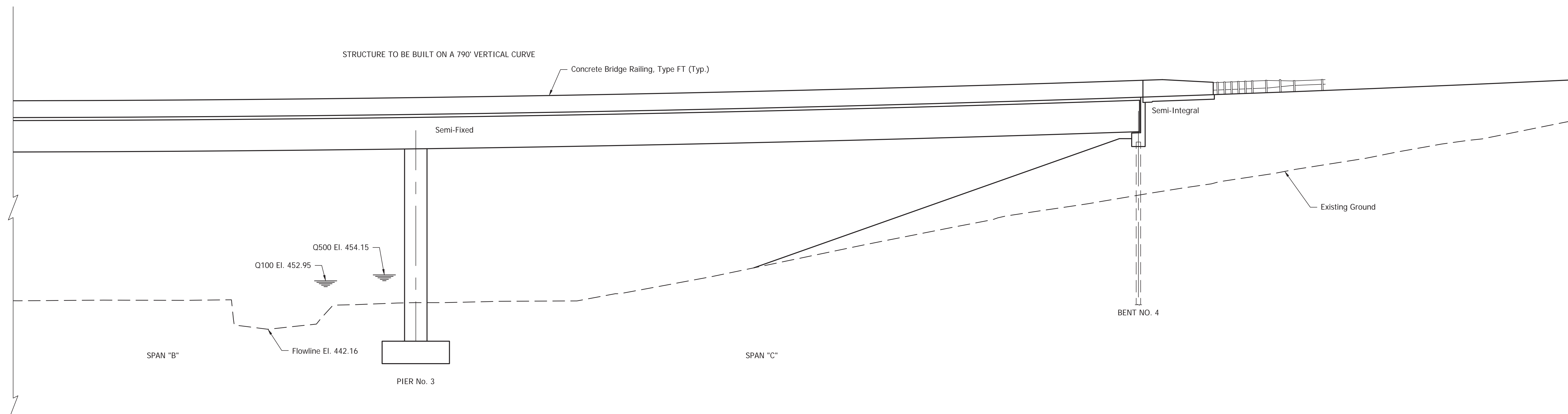
**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN**  
**HEAVY HAUL CORRIDOR OVER LENTZIER CREEK**

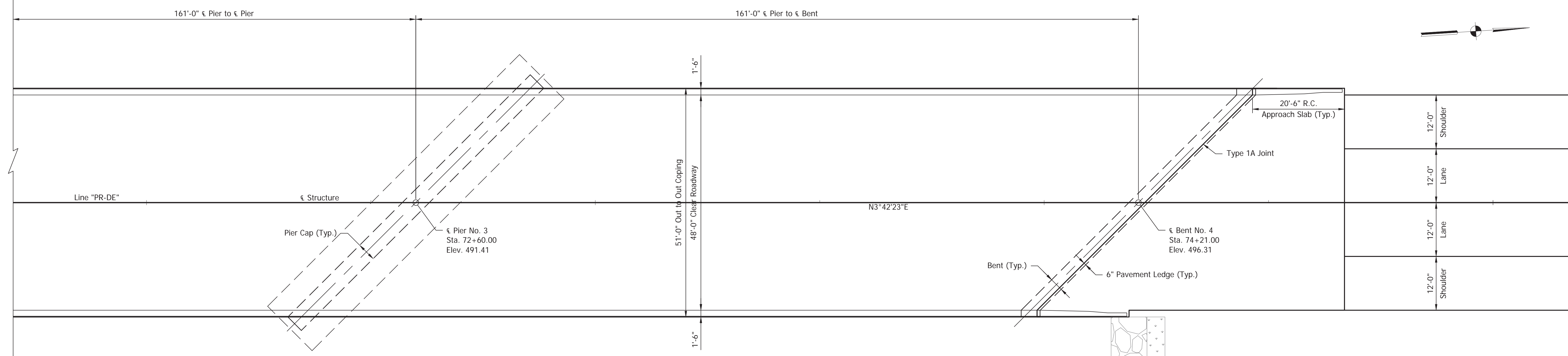
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	10-00418
VERTICAL SCALE	DESIGNATION
AS NOTED	1702513
SURVEY BOOK	SHEETS
-	5 of 8
CONTRACT	PROJECT
R-36260	1382612



File Name: P:\C3D\14-402\Bridges\Bridges over Lentzier Creek\Drawings\Plans\General Plan.dwg Plot Date: 7/30/2018 Plotted By: Mofiaff, Andrew J.



**ELEVATION**  
Scale: 3/32" = 1'-0"



**PLAN**  
Scale: 3/32" = 1'-0"

**HEAVY HAUL CORRIDOR OVER LENTZIER CREEK  
CONTINUOUS COMPOSITE PRESTRESSED  
CONCRETE BULB-T BEAM BRIDGE  
3 SPANS: 161'-0", 161'-0", 161'-0"  
SKEW: 45°00'00" RT  
48'-0" CLEAR ROADWAY  
CLARK COUNTY**



8440 Allison Pointe Boulevard, Suite 200  
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Phone 317-895-2585  
www.ucindy.com

RECOMMENDED FOR APPROVAL _____	
DESIGNED: CJA	DRAWN: AJM
CHECKED: SGM	CHECKED: CJA

**INDIANA  
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN**  
**HEAVY HAUL CORRIDOR OVER LENTZIER CREEK**

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	10-00418
VERTICAL SCALE	DESIGNATION
AS NOTED	1702513
SURVEY BOOK	SHEETS
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**GENERAL NOTES**

Reinforcing steel covering to be 2 1/2" in the top and 1" minimum in the bottom of floor slabs, 3" in footings except bottom steel which shall be 4", and 2" in all other parts, unless noted.

Surface seal all exposed new concrete surfaces of bents, top of bridge deck, face of deck coping, all exposed surfaces of concrete railings and railing transitions, and underside of deck to the face of exterior beam. (Est. Quantity = 15,861 sft. Per Bridge)

**DESIGN DATA**

Superstructure and substructure designed for HL-93 Loading, in accordance with the AASHTO LRFD Bridge Design Specifications, 6th Edition, 2012, and its subsequent interims and designed for Michigan Truck Train Live Load in accordance with INDOT Design Manual Section 403-3.0. Designed for actual dead load plus 15 psf for S.I.P. forms and 35 psf for future wearing surface. Slab designed with 1/2" sacrificial wearing surface.

**SEISMIC DESIGN DATA**

Seismic Performance Zone 1  
Acceleration Coefficient = 0.126  
Seismic Site Class D

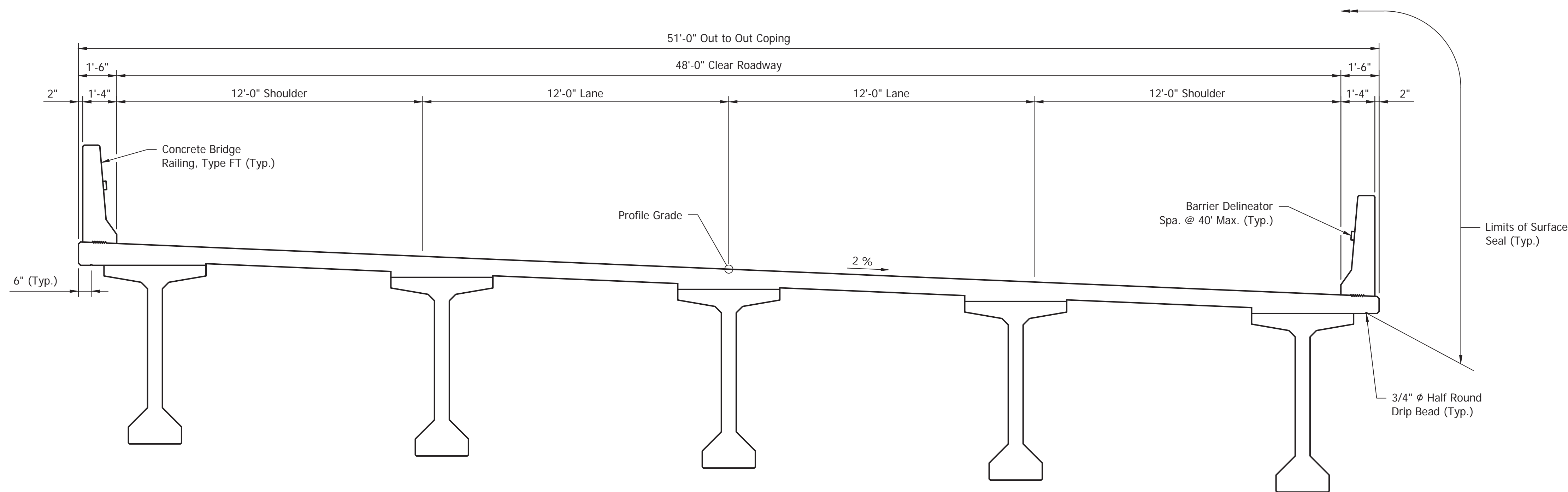
**ULTIMATE DESIGN STRESSES**

Class "C" Concrete  $f_c = 4,000$  psi  
Reinforcing Steel (Grade 60)  $f_y = 60,000$  psi

**CONSTRUCTION LOADING**

The exterior girder has been checked for strength, deflection, and overturning using the construction loads shown below. Cantilever overhang brackets were assumed for support of the deck overhang past the edge of the exterior girder. The finishing machine was assumed to be supported 6" outside the vertical coping form. The top overhang brackets were assumed to be located 6" past the edge of the vertical coping form. The bottom overhang brackets were assumed to be braced against the intersection of the girder bottom flange and web.

- Deck Falsework Loads: Designed for 15 lb/sft for permanent metal stay-in-place deck forms, removable deck forms, 2' exterior walkway.
- Construction Live Load: Designed for 20 lb/sft extending 2' past the edge of coping and 75 lb/ft vertical force applied at a distance of 6" outside the face of coping over a 30' length of the deck centered with the finishing machine.
- Finishing Machine Load: 4,500 lb distributed over 10' along the coping.
- Wind Load: Structure designed for 70 mph horizontal wind loading in accordance with LRFD 3.8.1.



**TYPICAL SECTION**

Scale: 3/8" = 1'-0"

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CONCRETE BULB-T BEAM BRIDGE  
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INDIANA DEPARTMENT OF TRANSPORTATION	
GENERAL PLAN	
HEAVY HAUL CORRIDOR OVER LENTZIER CREEK	

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### SUMMARY OF BRIDGE QUANTITIES

ITEM	CONCRETE				CONCRETE CLASS C RAILING	REINF. BARS	EPOXY COATED REINF. BARS	STRUCT. STEEL	DRILLED HOLE 1"Ø	BRIDGE DECK OVERLAY	BRIDGE DECK OVERLAY ADDITIONAL*	BRIDGE PATCHING, FULL DEPTH*	BRIDGE DECK PATCHING, PARTIAL DEPTH	HYDRO - DEMOLITION	SURFACE MILLING	AGGREGATE FOR END BENT BACKFILL	FIELD DRILLED HOLES IN CONCRETE	STEEL RAILING PF-1	CONCRETE RAILING PF-1	CONCRETE BRIDGE RAILING TRANSITION TPF-1	I BEAM TYPE III	SHEAR STUD CONNECTORS	SURFACE SEAL **	EPOXY COATED THREADED BAR ASSEMBLIES	R.C. BRIDGE APPROACH 12 Inch	DENSE GRADED SUBBASE 6 Inch	
	CLASS C	CLASS A	CLASS C	CLASS B																							
	SUPERSTR	SUBSTR	SUBSTR	IN FTG.																							
	cys.	cys.	cys.	cys.	lft.	lbs.	lbs.	lbs.	each	sys.	cys.	sft.	sft.	sys.	sys.	cys.	each	lft.	cys.	each	each	sft.	each	sys.	cys.		
BENT NO. 1																											
PIER NO. 2																											
PIER NO. 3																											
BENT NO. 4																											
SUPERSTRUCTURE																											
NORTH APPROACH																											
SOUTH APPROACH																											
WEST BRIDGE RAIL																											
EAST BRIDGE RAIL																											
Totals																											

\*\* ESTIMATED QUANTITY  
\* UNDISTRIBUTED QUANTITIES

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DESIGN ENGINEER DATE

DESIGNED: CJA DRAWN: AJM  
CHECKED: SGM CHECKED: CJA

**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**

**BRIDGE SUMMARY**  
**HEAVY HAUL CORRIDOR OVER LENTZIER CREEK**

HORIZONTAL SCALE	BRIDGE FILE
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