

PROJECT	DESIGNATION
1700190	1700190
CONTRACT	
R-341623	

INDIANA
DEPARTMENT OF
TRANSPORTATION

ROAD PLANS

U.S. 231

ADDED PASSING LANES PROJECT NO. 1700190 PE PROJECT NO. 1700190 RW PROJECT NO. 1700190 CN

TRAFFIC DATA	LOCATION 1 - LINE "A"
A.A.D.T. (2023)	8995 V.P.D.
A.A.D.T. (2043)	12,264 V.P.D.
D.H.V. (2043)	850 V.P.H.
DIRECTIONAL DISTRIBUTION	50% - 50%
TRUCKS	9% A.A.D.T.
DESIGN DATA	LOCATION 1 - LINE "A"
DESIGN SPEED	55 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE

TRAFFIC DATA	LOCATION 2 - LINE "B"
A.A.D.T. (2023)	9009 V.P.D.
A.A.D.T. (2043)	10,993 V.P.D.
D.H.V. (2043)	771 V.P.H.
DIRECTIONAL DISTRIBUTION	48% - 52%
TRUCKS	9% A.A.D.T.
DESIGN DATA	LOCATION 2 - LINE "B"
DESIGN SPEED	55 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE

TRAFFIC DATA	LOCATION 3 - LINE "C"
A.A.D.T. (2023)	9226 V.P.D.
A.A.D.T. (2043)	11,258 V.P.D.
D.H.V. (2043)	984 V.P.H.
DIRECTIONAL DISTRIBUTION	51% - 49%
TRUCKS	9% A.A.D.T.
DESIGN DATA	LOCATION 3 - LINE "C"
DESIGN SPEED	55 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE

Location 1 - This portion begins approximately 475 feet north of the intersection of W. 700 N. and U.S. 231 then continues north approximately 6447.61 feet (1.22 miles) along U.S. 231 in Sections 19,20,29 & 30, T20N, R4W, Madison Township, Montgomery County

Location 2 - This portion begins approximately 100 feet north of the intersection of Bennett Rd. and U.S. 231 then continues north approximately 6700.00 feet (1.27 miles) along U.S. 231 to approximately 425 feet south of C.R. E. 1200 S. in Sections 29 & 32, T21N, R4W, Randolph Township, Tippecanoe County

Location 3 - This portion begins approximately 3200 feet south of the intersection of W. 925 S. and U.S. 231 then continues north approximately 9200.40 feet (1.74 miles) along U.S. 231 to approximately 350 feet south of W. 800 S. in Sections 5,6,7 & 8, T21N, R4W, Randolph Township, Tippecanoe County

Location No. 1 - RP 185.23 to RP 186.46
Location No. 2 - RP 190.96 to RP 192.23
Location No. 3 - RP 194.43 to RP 196.17

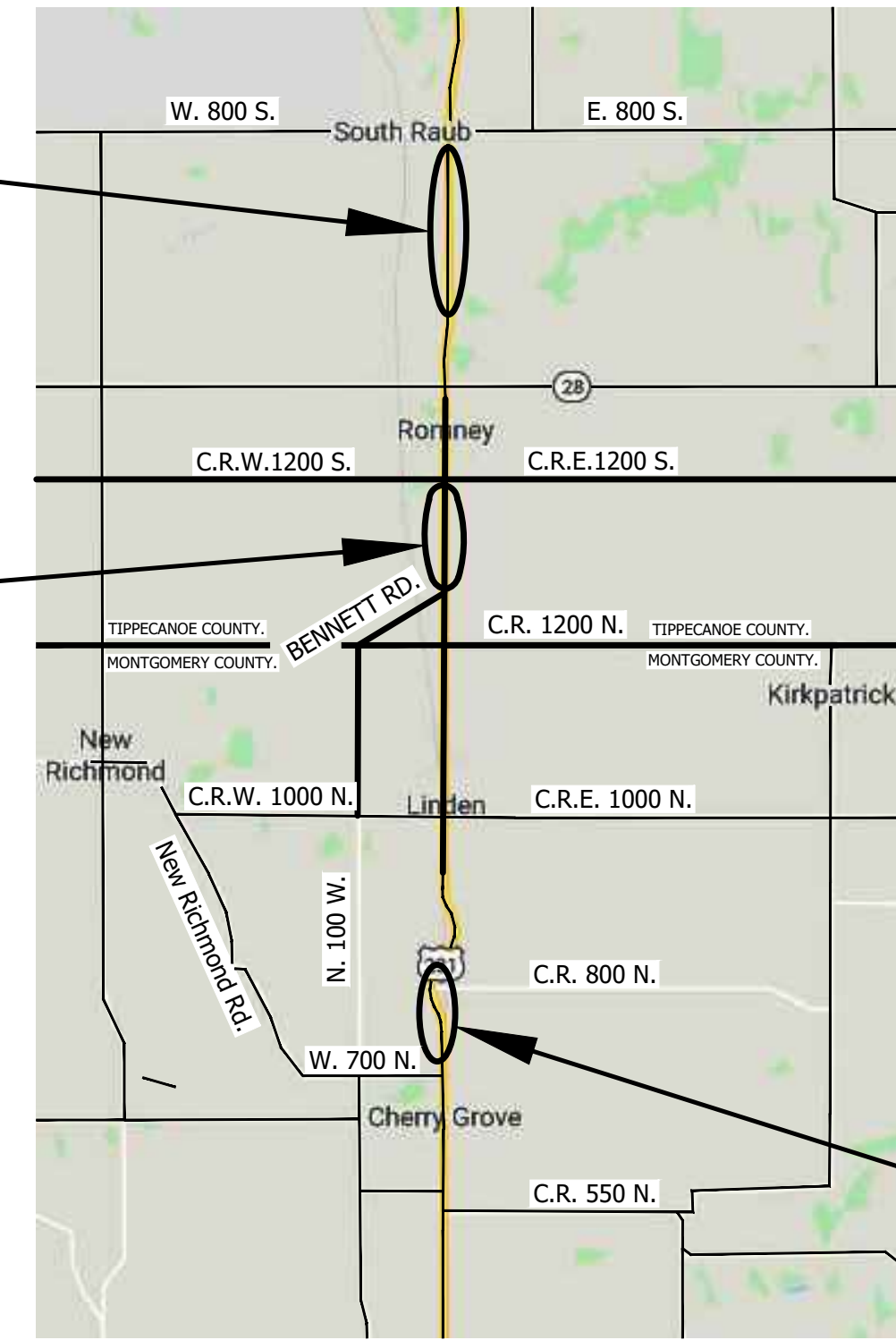
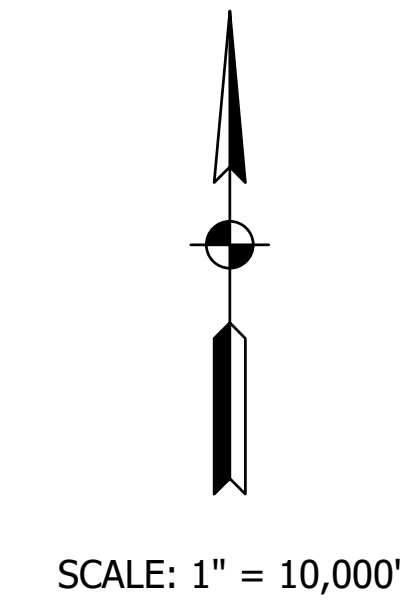
Location 1
Gross Length: 6447.61 Ft. (1.22 Mi.) Max. Grade: 1.70%
Net Length: 6447.61 Ft. (1.22 Mi.)

Location 2
Gross Length: 6700.00 Ft. (1.27 Mi.) Max. Grade: 2.00%
Net Length: 6700.00 Ft. (1.27 Mi.)

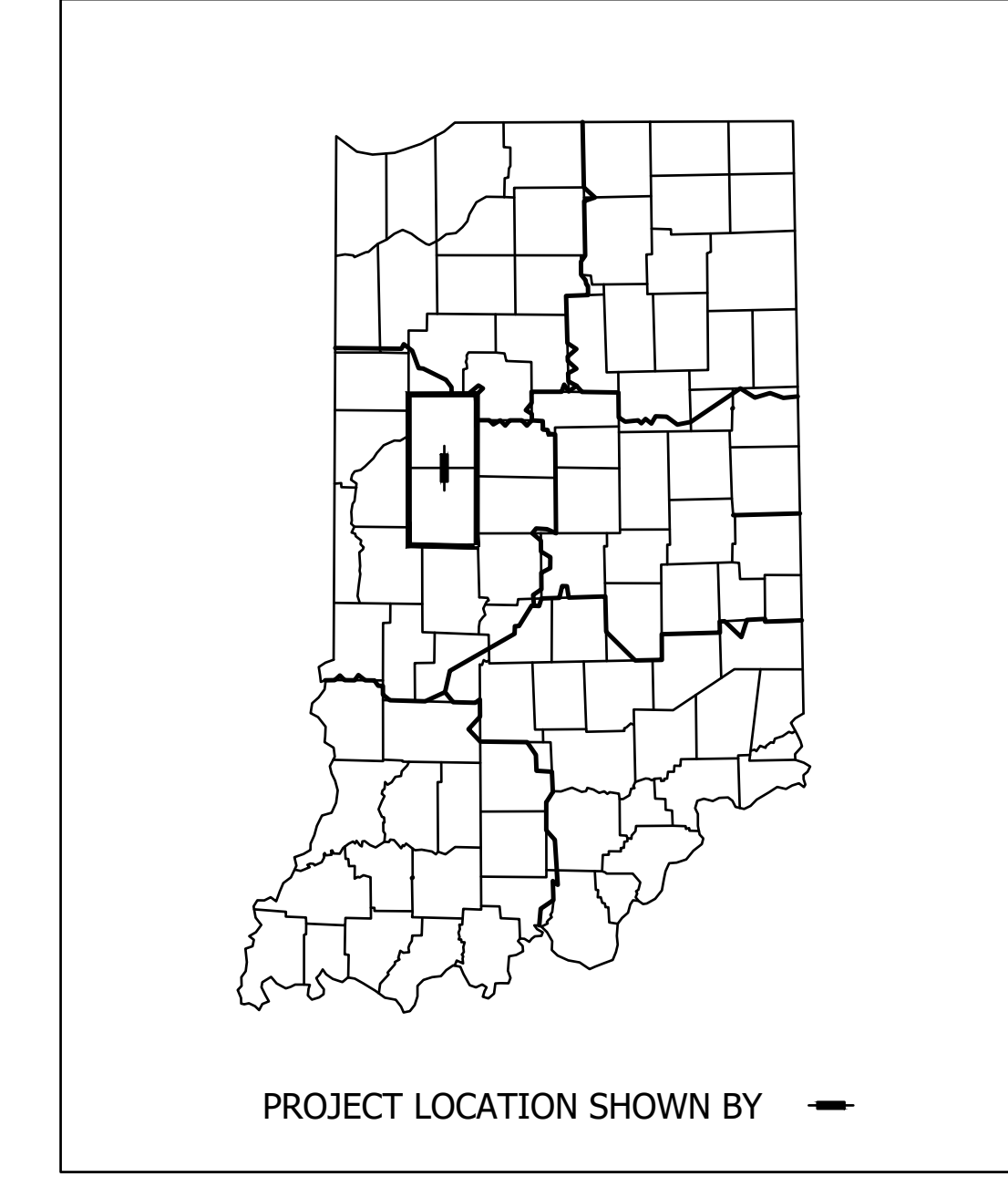
Location 3
Gross Length: 9200.40 Ft. (1.74 Mi.) Max. Grade: 1.74%
Net Length: 9200.40 Ft. (1.74 Mi.)

END PROJECT NO. 1700190 966+50.40 LINE "PR C"
LOCATION NO. 3
BEGIN CONSTRUCTION 874+50.00 LINE "PR C"
END CONSTRUCTION 966+50.40 LINE "PR C"

LOCATION NO. 2
BEGIN CONSTRUCTION 690+00.00 LINE "B"
END CONSTRUCTION 757+00.00 LINE "B"



BEGIN PROJECT NO. 1700190 391+00.00 LINE "A"
LOCATION 1
BEGIN CONSTRUCTION 391+00.00 LINE "A"
END CONSTRUCTION 455+47.61 LINE "A"



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

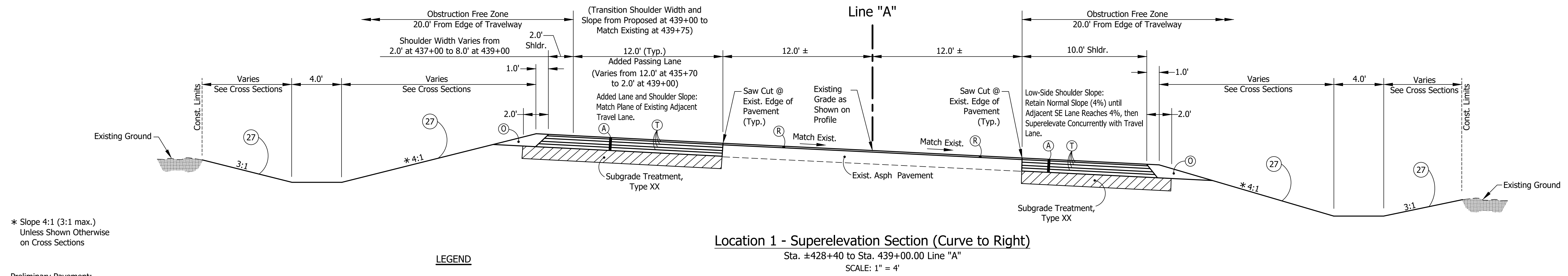
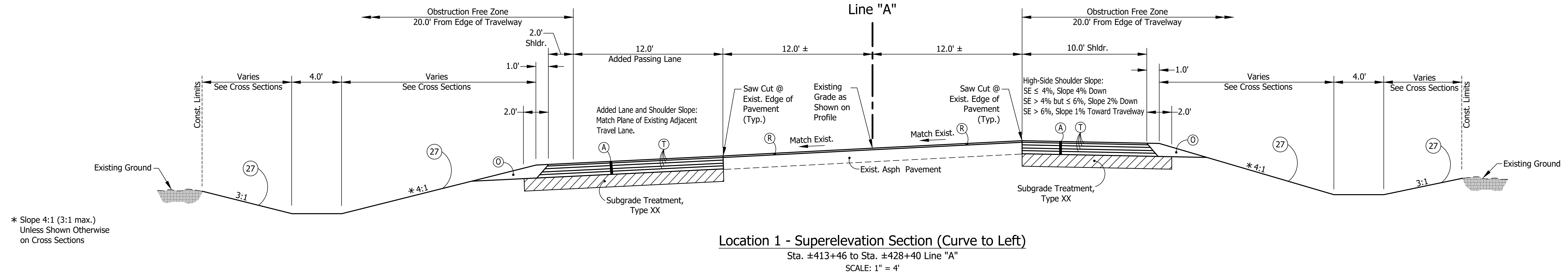
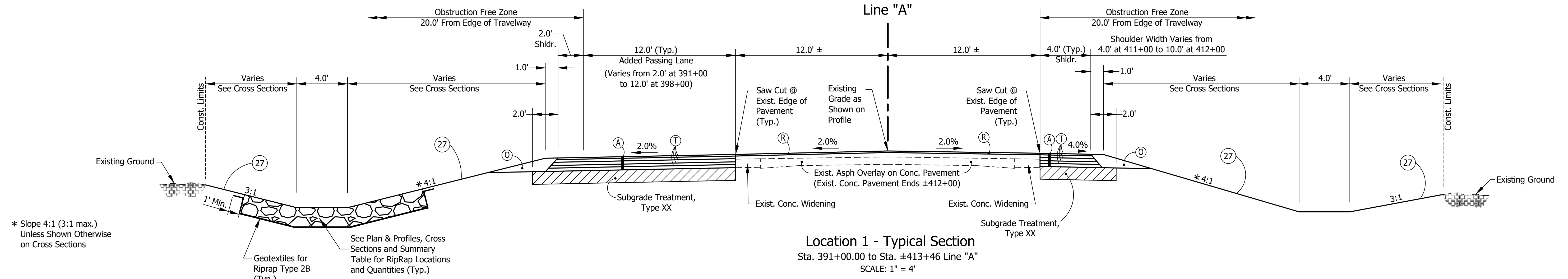
Montgomery & Tippecanoe County

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

PLANS PREPARED BY:	FIRST GROUP ENGR., INC.	(317) 290-9549	PHONE NUMBER
CERTIFIED BY:			DATE
APPROVED FOR LETTING:	INDIANA DEPARTMENT OF TRANSPORTATION		DATE

Stage 2 Plans

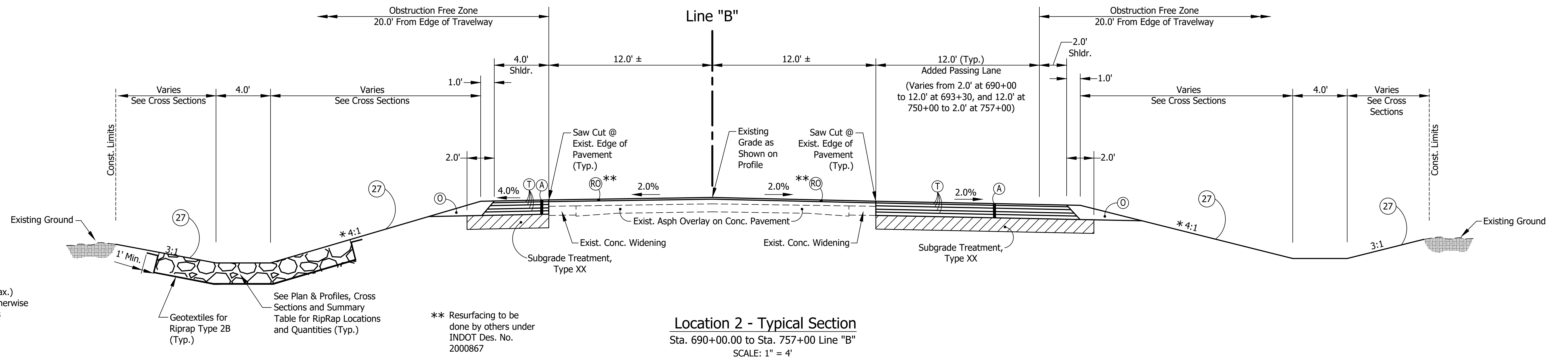
DESIGNATION	1700190
SHEETS	1 of 161
CONTRACT	R-41623
PROJECT	1700190



LEGEND

- (A) Preliminary Pavement:
165#/Syd QC/QA-HMA 3, 64, Surface 9.5 mm on 275#/Syd QC/QA-HMA 3, 64, Intermediate 19.0 mm on 660#/Syd QC/QA-HMA 3, 64, Base, 19.0 mm (2 Lifts) on Subgrade Treatment Type XX
- (A1) HMA for Approaches, Type C:
165#/Syd HMA Surface Type C on 275#/Syd HMA Intermediate Type C on 330#/Syd HMA Base Type C on 6" Compacted Aggregate No. 53 on Subgrade Treatment Type II
- (D1) HMA for Approaches, Type B:
165#/Syd HMA Surface Type B on 275#/Syd HMA Intermediate Type B on 6" Compacted Aggregate No. 53 on Subgrade Treatment Type II
- (D2) HMA for Approaches, Type B:
165#/Syd HMA Surface, Type B on 275#/Syd HMA Intermediate, Type B on 660#/Syd HMA Base, Type B on 6" Compacted Aggregate No. 53 on Subgrade Treatment Type II on Geogrid, Type 1B
- (D3) 12" Compacted Aggregate No. 53
- (O) Variable Depth Compacted Aggregate, No. 53
- (R) 1-1/2" Asphalt Milling With 165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (RO) Resurfacing to be Done By Others Under INDOT Des. No. 2000867 2" Asphalt Milling With 220#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (T) Asphalt Material for Tack Coat
- (R1) 1-1/2" Asphalt Milling With 165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on Variable QC/QA-HMA, 3, 64, Intermediate, 19.0 mm (275#/Syd. Minimum, 385#/Syd. Maximum - Increase Milling Depth as Needed to Insure Proper Minimum HMA Thickness)
- (26) Sodding (Nursery) W/Topsoil (4" As Req'd. Under Sodding)
- (27) Seed Mixture, R

Stage 2 Plans	RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 4'	BRIDGE FILE N/A
	DESIGNED: C.E.S./B.M.S.	DRAWN: B.M.S.		LOCATION 1 TYPICAL CROSS SECTIONS		VERTICAL SCALE N/A	DESIGNATION 1700190
	CHECKED: C.E.S./B.M.S.	CHECKED: J.L.B.				SURVEY BOOK N/A	SHEETS 3 of 161
						CONTRACT R-41623	PROJECT 1700190



* Slope 4:1 (3:1 max.)
Unless Shown Otherwise
on Cross Sections

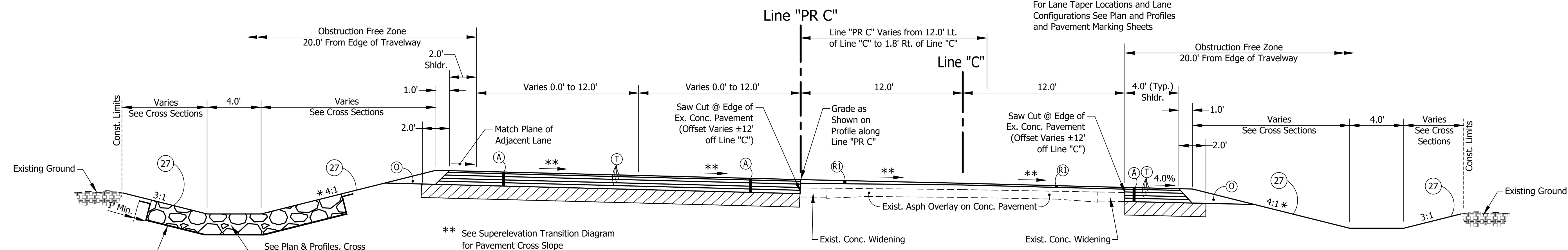
See Plan & Profiles, Cross
Sections and Summary
Table for RipRap Locations
and Quantities (Typ.)

** Resurfacing to be
done by others under
INDOT Des. No.
2000867

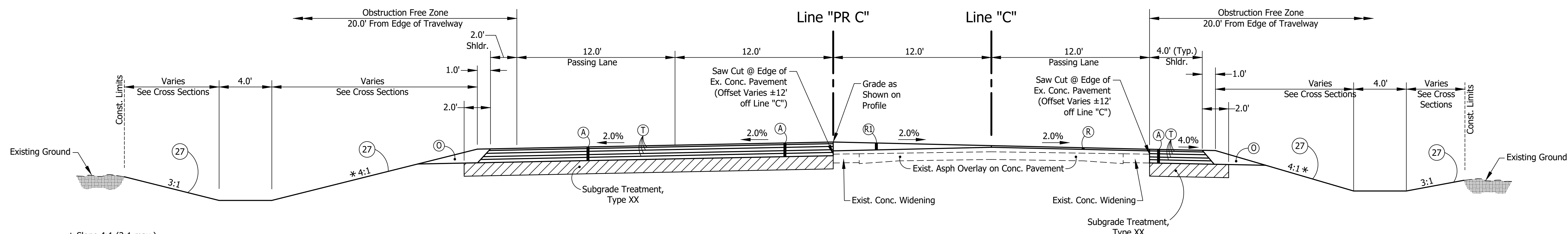
LEGEND

- (A) Preliminary Pavement:
165#/Syd QC/QA-HMA 3, 64, Surface 9.5 mm on
275#/Syd QC/QA-HMA 3, 64, Intermediate 19.0 mm on
660#/Syd QC/QA-HMA 3, 64, Base, 19.0 mm (2 Lifts) on
Subgrade Treatment Type XX
- (A1) HMA for Approaches, Type C:
165#/Syd HMA Surface Type C on
275#/Syd HMA Intermediate Type C on
330#/Syd HMA Base Type C on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D1) HMA for Approaches, Type B:
165#/Syd HMA Surface Type B on
275#/Syd HMA Intermediate Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D2) HMA for Approaches, Type B:
165#/Syd HMA Surface, Type B on
275#/Syd HMA Intermediate, Type B on
660#/Syd HMA Base, Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II on
Geogrid, Type 1B
- (D3) 12" Compacted Aggregate No. 53
- (O) Variable Depth Compacted Aggregate, No. 53
- (R) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (RO) Resurfacing to be Done By Others
Under INDOT Des. No. 2000867
2" Asphalt Milling With
220#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (R1) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on
Variable QC/QA-HMA, 3, 64, Intermediate, 19.0 mm
(275#/Syd. Minimum, 385#/Syd. Maximum -
Increase Milling Depth as Needed to Insure
Proper Minimum HMA Thickness)
- (T) Asphalt Material for Tack Coat
- (26) Sodding (Nursery) W/Topsoil
(4" As Req'd. Under Sodding)
- (27) Seed Mixture, R

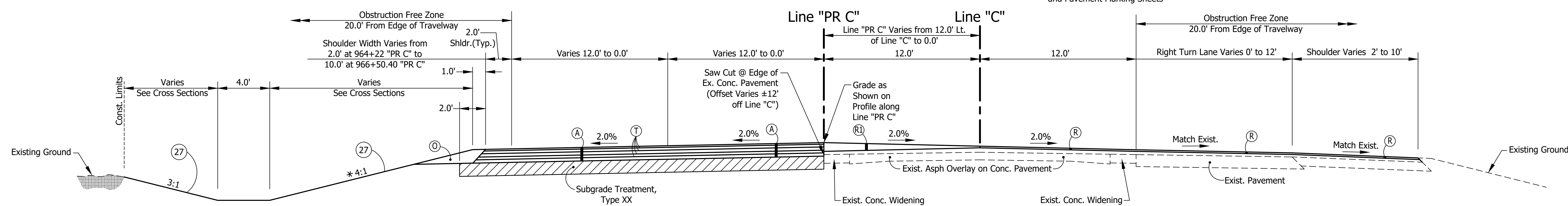
Stage 2 Plans	RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE	BRIDGE FILE
	DESIGNED: C.E.S./B.M.S.	DRAWN: B.M.S.		LOCATION 2 TYPICAL CROSS SECTIONS		1" = 4'	N/A
	CHECKED: C.E.S./B.M.S.	CHECKED: J.L.B.		VERTICAL SCALE	DESIGNATION	N/A	1700190
				SURVEY BOOK	SHEETS	N/A	4 of 161
			CONTRACT	PROJECT	R-41623	1700190	



Location 3 - Superelevation Section (Curve to Right)
Sta. 874+50.00 Line "PR C" to Sta. 882+25.00 Line "PR C"
SCALE: 1" = 4'



Location 3 - Typical Section
Sta. 882+25.00 Line "PR C" to Sta. 958+85.00 Line "PR C"
SCALE: 1" = 4'



Location 3 - Typical Section
Sta. 958+85.00 Line "PR C" to 966+50.40 Line "PR C"
SCALE: 1" = 4'

- LEGEND**
- (A) Preliminary Pavement: 165#/Syd QC/QA-HMA 3, 64, Surface 9.5 mm on 275#/Syd QC/QA-HMA 3, 64, Intermediate 19.0 mm on 660#/Syd QC/QA-HMA 3, 64, Base, 19.0 mm (2 Lifts) on Subgrade Treatment Type XX
 - (A1) HMA for Approaches, Type C: 165#/Syd HMA Surface Type C on 275#/Syd HMA Intermediate Type C on 330#/Syd HMA Base Type C on 6" Compacted Aggregate No. 53 on Subgrade Treatment Type II
 - (D1) HMA for Approaches, Type B: 165#/Syd HMA Surface Type B on 275#/Syd HMA Intermediate Type B on 6" Compacted Aggregate No. 53 on Subgrade Treatment Type II
 - (D2) HMA for Approaches, Type B: 165#/Syd HMA Surface, Type B on 275#/Syd HMA Intermediate, Type B on 660#/Syd HMA Base, Type B on 6" Compacted Aggregate No. 53 on Subgrade Treatment Type II on Geogrid, Type 1B
 - (D3) 12" Compacted Aggregate No. 53
 - (O) Variable Depth Compacted Aggregate, No. 53
 - (R) 1-1/2" Asphalt Milling With 165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
 - (R1) 1-1/2" Asphalt Milling With 165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on Variable QC/QA-HMA, 3, 64, Intermediate, 19.0 mm (275#/Syd. Minimum, 385#/Syd. Maximum - Increase Milling Depth as Needed to Insure Proper Minimum HMA Thickness)
 - (RO) Resurfacing to be Done By Others Under INDOT Des. No. 2000867
 - (T) Asphalt Material for Tack Coat
 - (26) Sodding (Nursery) W/Topsoil (4" As Req'd. Under Sodding)
 - (27) Seed Mixture, R

Stage 2 Plans	RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 4'	BRIDGE FILE N/A
	DESIGNED: C.E.S./B.M.S.	DRAWN: B.M.S.		LOCATION 3 TYPICAL CROSS SECTIONS		VERTICAL SCALE N/A	DESIGNATION 1700190
	CHECKED: C.E.S./B.M.S.	CHECKED: J.L.B.		CONTRACT R-41623		SURVEY BOOK N/A	SHEETS 5 of 161
				PROJECT 1700190			

388

391

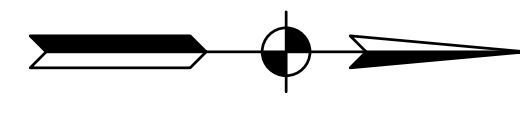
394

397

400

403

405



SEC. 30, T20N, R4W
MONTGOMERY CO.
MADISON TWP.

SEC. 29, T20N, R4W
MONTGOMERY CO.
MADISON TWP.

Joe Brent Wilson

Rosemary Hatke

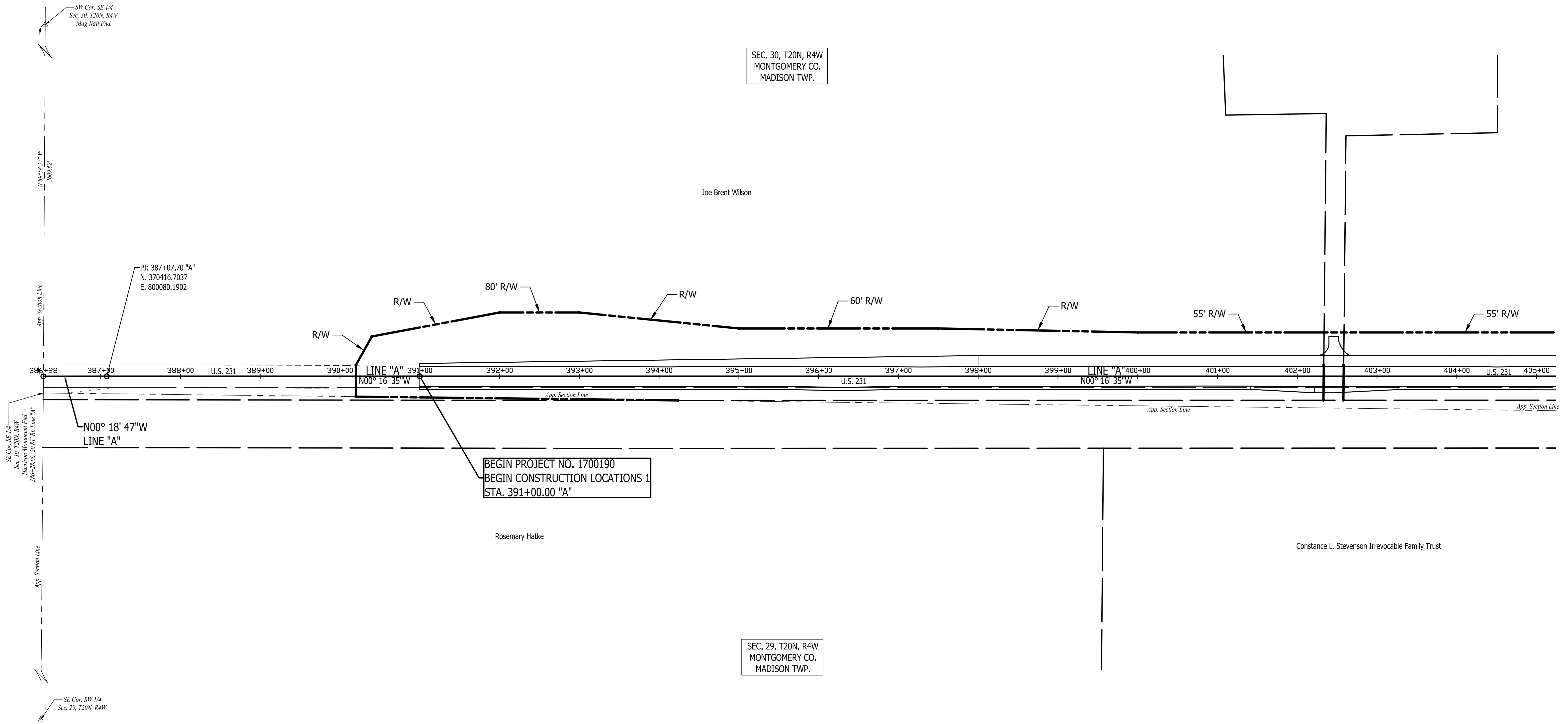
Constance L. Stevenson Irrevocable Family Trust

SW Cor. SE 1/4
Sec. 30, T20N, R4W
Mag Nail Fnd.

SE Cor. SW 1/4
Sec. 29, T20N, R4W

PI: 387+07.70 "A"
N. 370416.7037
E. 800080.1902

BEGIN PROJECT NO. 1700190
BEGIN CONSTRUCTION LOCATIONS 1
STA. 391+00.00 "A"



Stage 2 Plans

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

INDIANA
DEPARTMENT OF TRANSPORTATION

US 231 - LINE "A"
LOCATION 1 - PLAT NO. 1

HORIZONTAL SCALE 1" = 60'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1700190
SURVEY BOOK N/A	SHEETS 6 of 161
CONTRACT R-41623	PROJECT 1700190

405

406

409

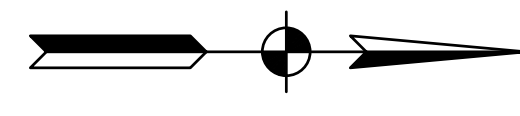
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415

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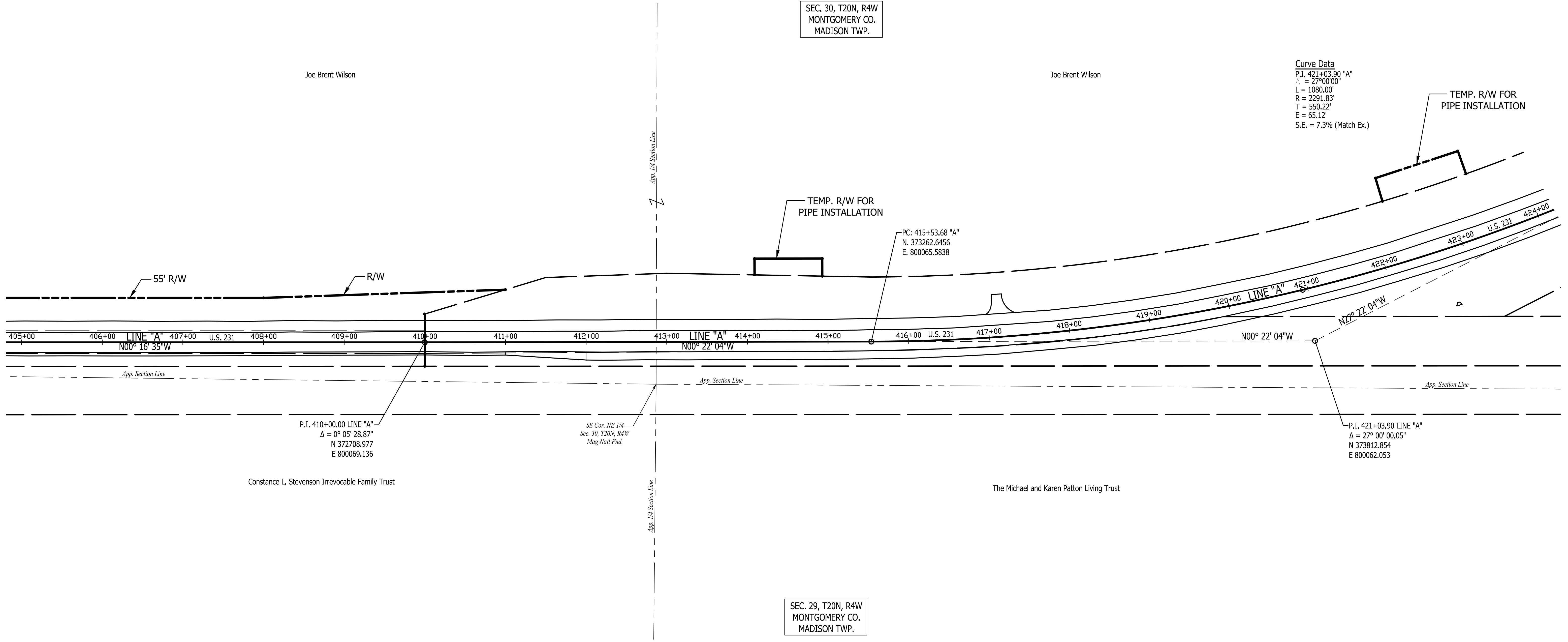
421

424



SEC. 30, T20N, R4W
MONTGOMERY CO.
MADISON TWP.

Curve Data
P.I. 421+03.90 "A"
 $\Delta = 27^{\circ}00'00"$
L = 1080.00'
R = 2291.83'
T = 550.22'
E = 65.12'
S.E. = 7.3% (Match Ex.)



P.I. 410+00.00 LINE "A"
 $\Delta = 0^{\circ}05'28.87"$
N 372708.977
E 800069.136

SE Cor. NE 1/4
Sec. 30, T20N, R4W
Mag Nail End.

PC: 415+53.68 "A"
N. 373262.6456
E. 800065.5838

P.I. 421+03.90 LINE "A"
 $\Delta = 27^{\circ}00'00.05"$
N 373812.854
E 800062.053

Constance L. Stevenson Irrevocable Family Trust

The Michael and Karen Patton Living Trust

SEC. 29, T20N, R4W
MONTGOMERY CO.
MADISON TWP.

Stage 2 Plans

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

INDIANA
DEPARTMENT OF TRANSPORTATION

US 231 - LINE "A"
LOCATION 1 - PLAT NO. 1

HORIZONTAL SCALE	BRIDGE FILE
1" = 60'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1700190
SURVEY BOOK	SHEETS
N/A	7 of 161
CONTRACT	PROJECT
R-41623	1700190

424

427

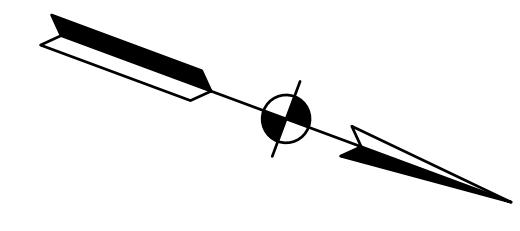
430

433

436

439

441



SEC. 30, T20N, R4W
MONTGOMERY CO.
MADISON TWP.

SEC. 19, T20N, R4W
MONTGOMERY CO.
MADISON TWP.

SEC. 29, T20N, R4W
MONTGOMERY CO.
MADISON TWP.

Joe Brent Wilson

Linda Binford-Vondielngen Et Al

Joe Brent Wilson

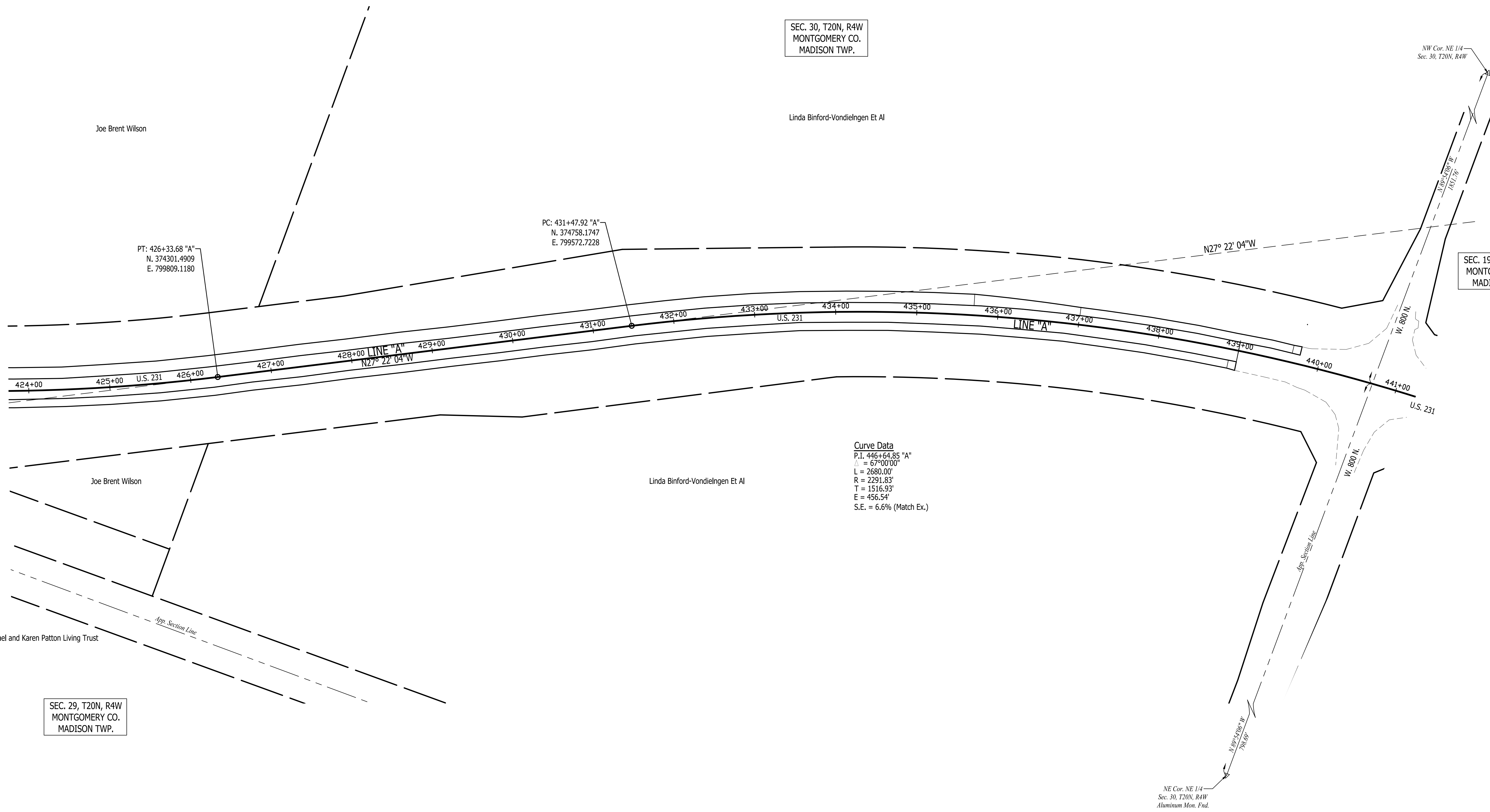
Linda Binford-Vondielngen Et Al

The Michael and Karen Patton Living Trust

PT: 426+33.68 "A"
N. 374301.4909
E. 799809.1180

PC: 431+47.92 "A"
N. 374758.1747
E. 799572.7228

Curve Data
P.I. 446+64.85 "A"
 $\Delta = 67^{\circ}00'00"$
L = 2680.00'
R = 2291.83'
T = 1516.93'
E = 456.54'
S.E. = 6.6% (Match Ex.)



Stage 2 Plans

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

INDIANA
DEPARTMENT OF TRANSPORTATION

US 231 - LINE "A"
LOCATION 1 - PLAT NO. 1

HORIZONTAL SCALE 1" = 60'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1700190
SURVEY BOOK N/A	SHEETS 8 of 161
CONTRACT R-41623	PROJECT 1700190

441

442

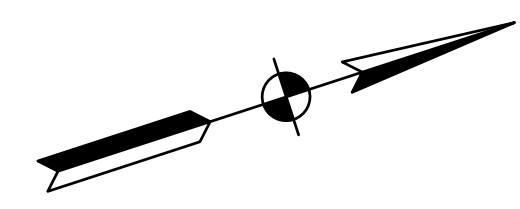
445

448

451

454

457



P.I. 446+64.85 LINE "A"
Δ = 67° 00' 00.12"
N 376105.323
E 798875.393

SEC. 19, T20N, R4W
MONTGOMERY CO.
MADISON TWP.

N27° 22' 04"W

Joe Brent Wilson

N39° 37' 57"E

Wabash College

TEMP. R/W FOR
PIPE INSTALLATION

441+00

LINE "A"
U.S. 231

Joe Brent Wilson

Curve Data
P.I. 446+64.85 "A"
Δ = 67° 00' 00"
L = 2680.00'
R = 2291.83'
T = 1516.93'
E = 456.54'
S.E. = 6.6% (Match Ex.)

LINE "A"

END CONSTRUCTION LOCATION 1
STA. 455+47.61 "A"

TEMP. R/W FOR
PIPE INSTALLATION

TEMP. R/W FOR
PIPE INSTALLATION

Helena Agri Enterprises LLC

PT: 458+27.92 "A"
N. 377273.591
E. 799842.981

LINE "A"

Stage 2 Plans

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
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CHECKED: C.E.S./B.M.S.	CHECKED: J.L.B.	

INDIANA
DEPARTMENT OF TRANSPORTATION

US 231 - LINE "A"
LOCATION 1 - PLAT NO. 1

HORIZONTAL SCALE	BRIDGE FILE
1" = 60'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1700190
SURVEY BOOK	SHEETS
N/A	9 of 161
CONTRACT	PROJECT
R-41623	1700190

684

687

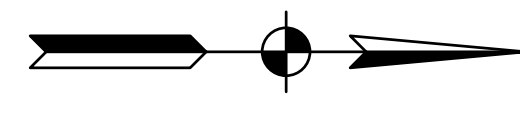
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693

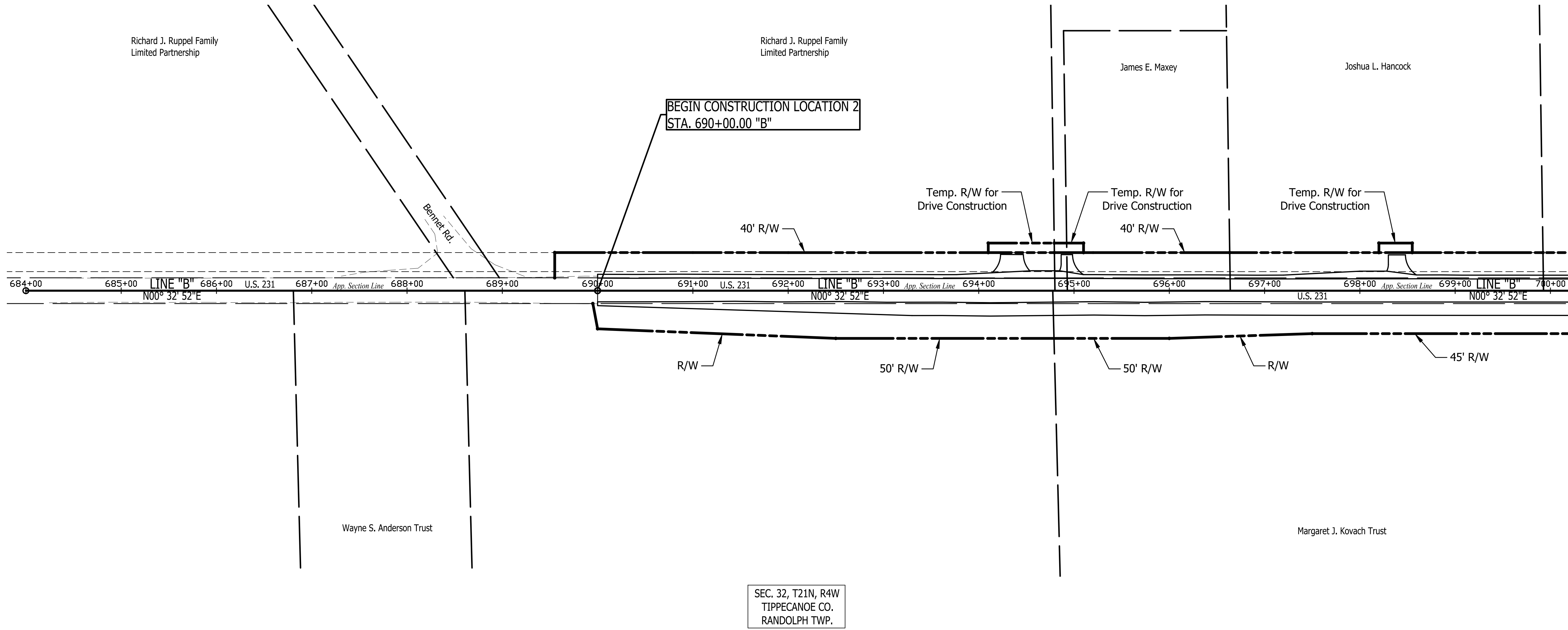
696

699

700



SEC. 31, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.



Stage 2 Plans

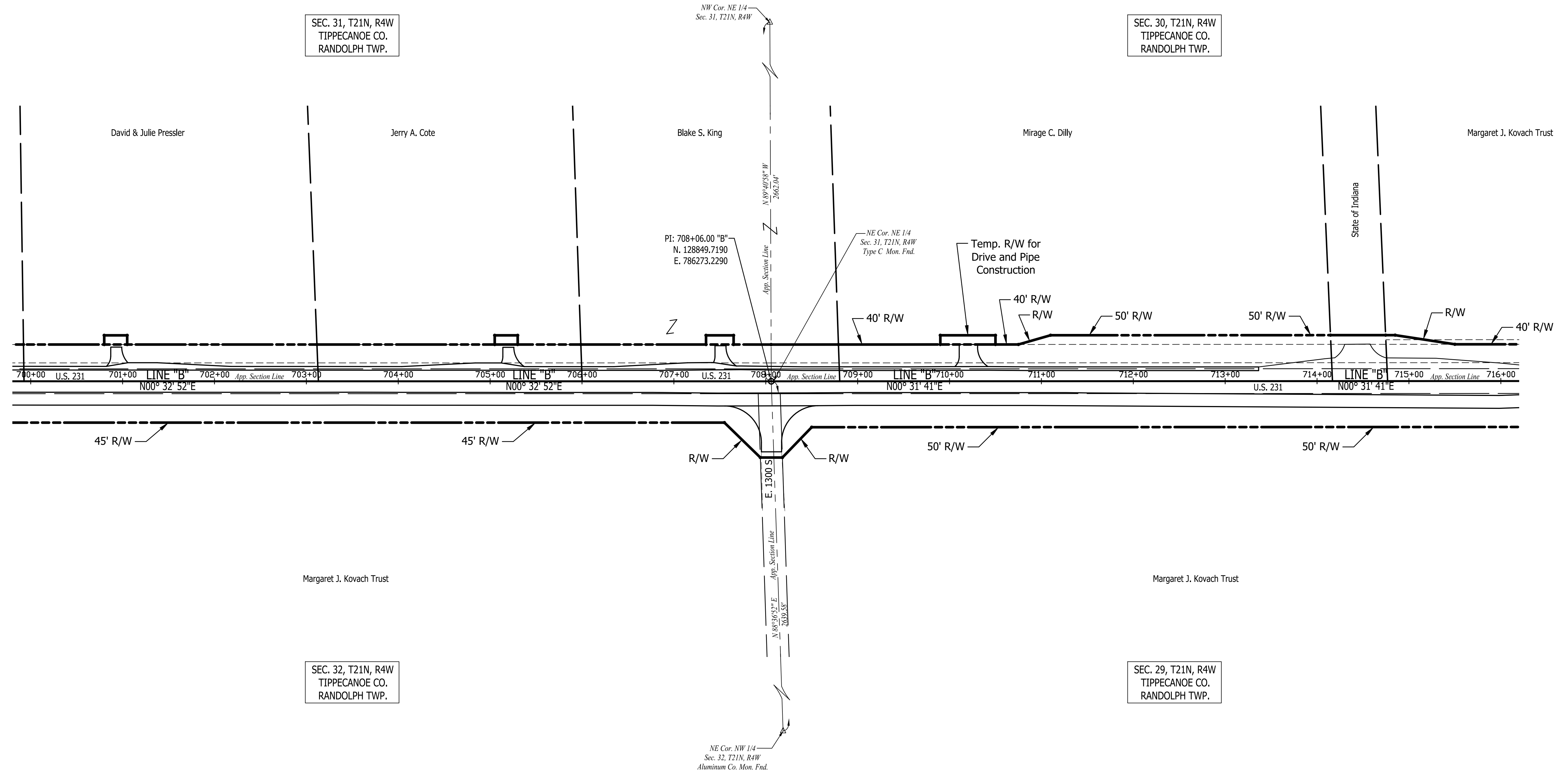
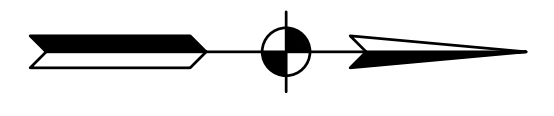
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: C.E.S./B.M.S.	DRAWN: B.M.S.	
CHECKED: C.E.S./B.M.S.	CHECKED: J.L.B.	

INDIANA
DEPARTMENT OF TRANSPORTATION

US 231 - LINE "A"
LOCATION 2 - PLAT NO. 1

HORIZONTAL SCALE	BRIDGE FILE
1" = 60'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1700190
SURVEY BOOK	SHEETS
N/A	10 of 161
CONTRACT	PROJECT
R-41623	1700190

700 703 706 709 712 715 716



Stage 2 Plans

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

INDIANA
DEPARTMENT OF TRANSPORTATION

US 231 - LINE "A"
LOCATION 2 - PLAT NO. 1

HORIZONTAL SCALE	BRIDGE FILE
1" = 60'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1700190
SURVEY BOOK	SHEETS
N/A	11 of 161
CONTRACT	PROJECT
R-41623	1700190

716

719

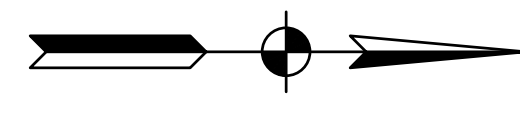
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731

732

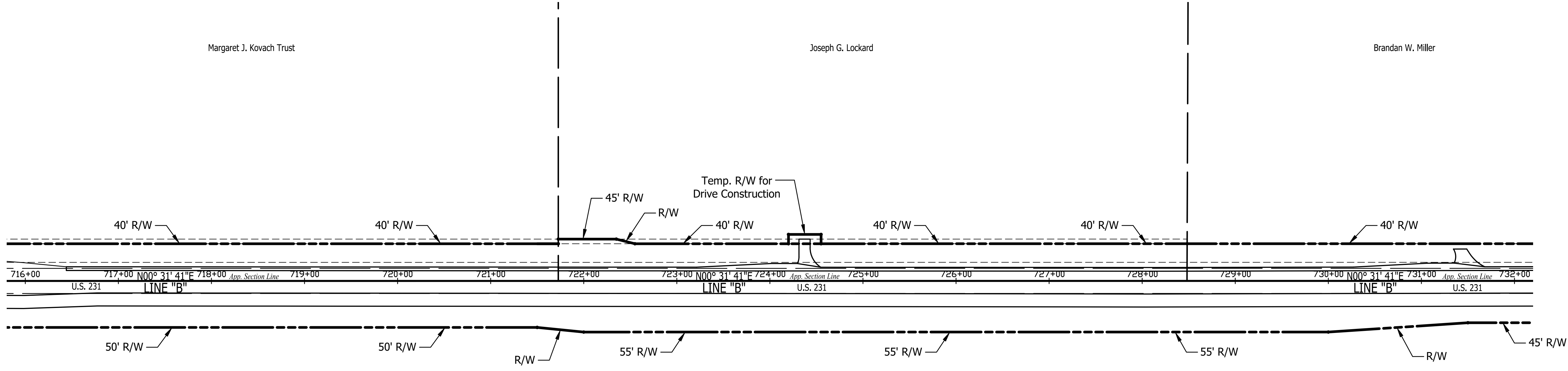


SEC. 30, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

Margaret J. Kovach Trust

Joseph G. Lockard

Brandan W. Miller



Margaret J. Kovach Trust

SEC. 29, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

Stage 2 Plans

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

INDIANA
DEPARTMENT OF TRANSPORTATION

US 231 - LINE "A"
LOCATION 2 - PLAT NO. 1

HORIZONTAL SCALE	BRIDGE FILE
1" = 60'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1700190
SURVEY BOOK	SHEETS
N/A	12 of 161
CONTRACT	PROJECT
R-41623	1700190

732

735

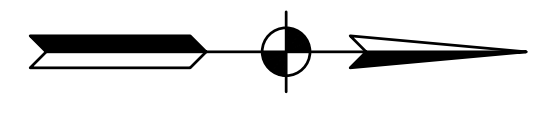
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741

744

747

748

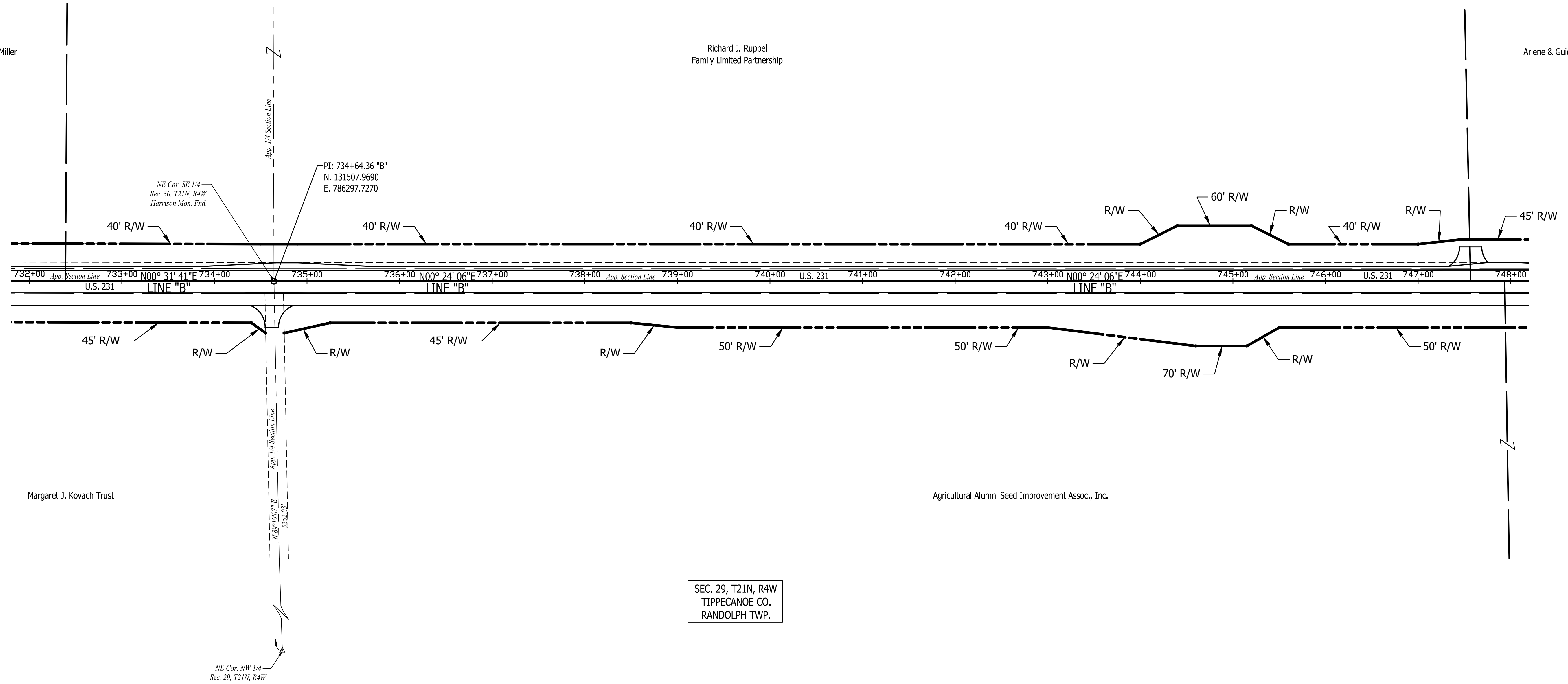


SEC. 30, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

Brandon W. Miller

Richard J. Ruppel
Family Limited Partnership

Arlene & Guido F. Nizzi



Margaret J. Kovach Trust

Agricultural Alumni Seed Improvement Assoc., Inc.

SEC. 29, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

Stage 2 Plans

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

INDIANA
DEPARTMENT OF TRANSPORTATION

US 231 - LINE "A"
LOCATION 2 - PLAT NO. 1

HORIZONTAL SCALE	BRIDGE FILE
1" = 60'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1700190
SURVEY BOOK	SHEETS
N/A	13 of 161
CONTRACT	PROJECT
R-41623	1700190

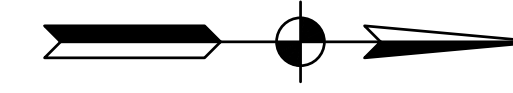
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757

760



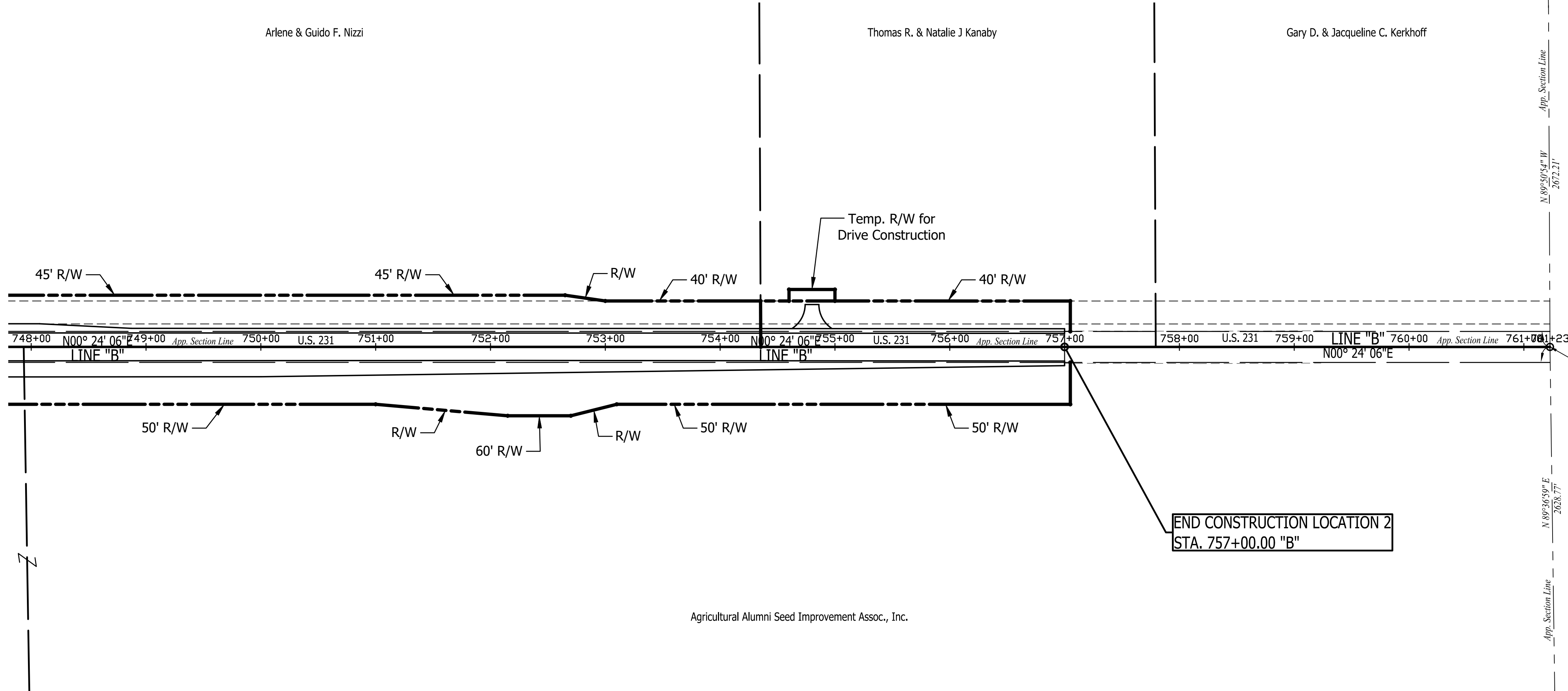
SEC. 30, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

Arlene & Guido F. Nizzi

Thomas R. & Natalie J Kanaby

Gary D. & Jacqueline C. Kerkhoff

NW Cor. NE 1/4
Sec. 30, T21N, R4W
Aluminum Co. Mon. Fnd.



SEC. 29, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

Stage 2 Plans

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

INDIANA
DEPARTMENT OF TRANSPORTATION

US 231 - LINE "A"
LOCATION 2 - PLAT NO. 1

HORIZONTAL SCALE	BRIDGE FILE
1" = 60'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1700190
SURVEY BOOK	SHEETS
N/A	14 of 161
CONTRACT	PROJECT
R-41623	1700190

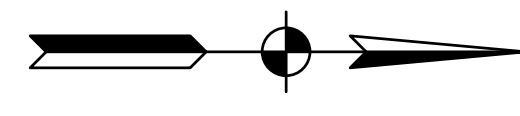
874

877

880

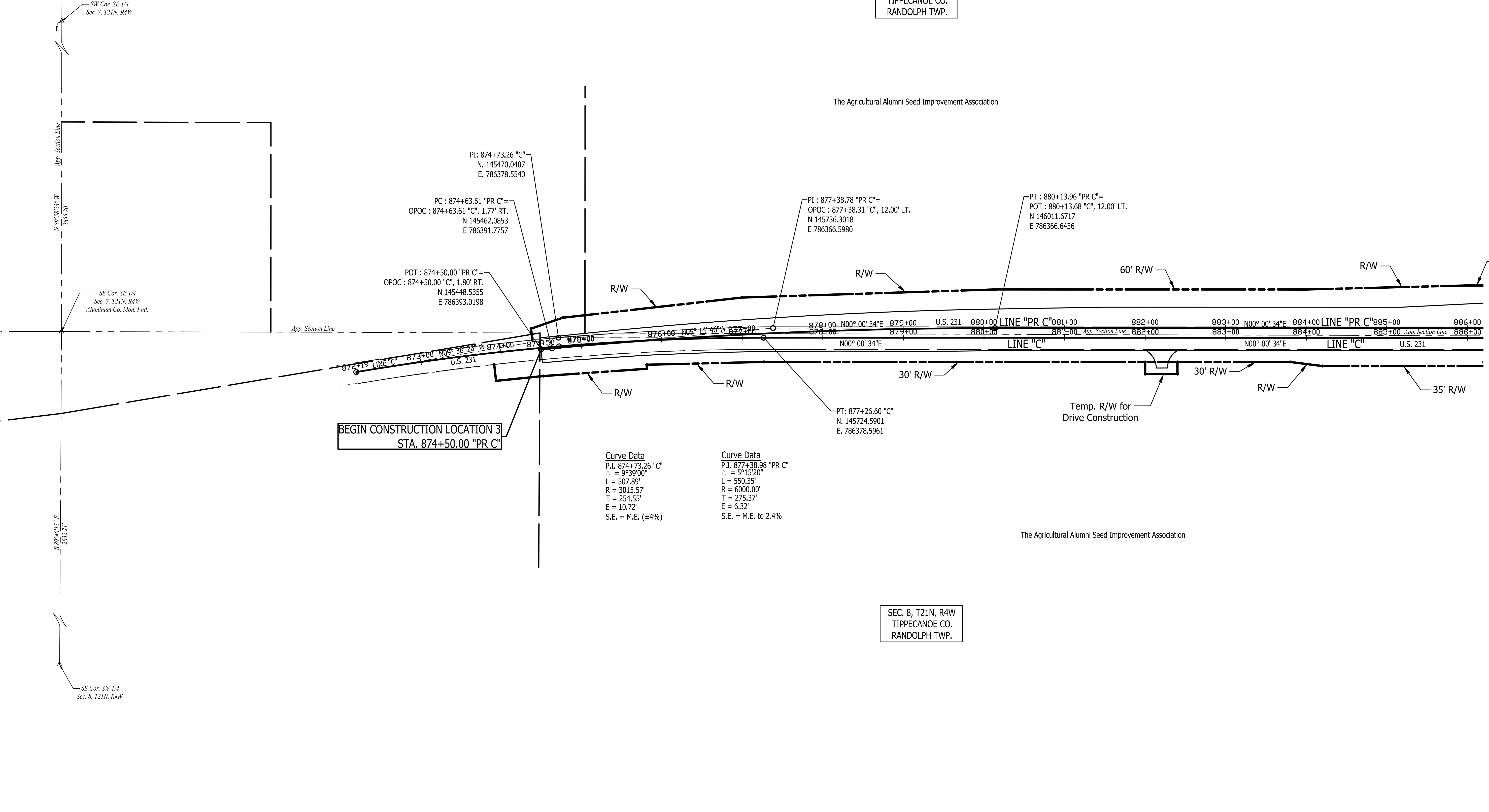
883

886



SEC. 7, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

The Agricultural Alumni Seed Improvement Association



PI: 874+73.26 "C"
N. 145470.0407
E. 786378.5540

PC: 874+63.61 "PR C"
OPOC: 874+63.61 "C", 1.77' RT.
N 145462.0853
E 786391.7757

POT: 874+50.00 "PR C"
OPOC: 874+50.00 "C", 1.80' RT.
N 145448.5355
E 786393.0198

PI: 877+38.78 "PR C"
OPOC: 877+38.31 "C", 12.00' LT.
N 145736.3018
E 786366.5980

PT: 880+13.96 "PR C"
POT: 880+13.68 "C", 12.00' LT.
N 146011.6717
E 786366.6436

Curve Data
P.I. 874+73.26 "C"
Δ = 9°39'00"
L = 507.89'
R = 3015.57'
T = 254.55'
E = 10.72'
S.E. = M.E. (±4%)

Curve Data
P.I. 877+38.98 "PR C"
Δ = 5°15'20"
L = 550.35'
R = 6000.00'
T = 275.37'
E = 6.32'
S.E. = M.E. to 2.4%

The Agricultural Alumni Seed Improvement Association

SEC. 8, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

SW Cor. SE 1/4
Sec. 7, T21N, R4W

SE Cor. SE 1/4
Sec. 7, T21N, R4W
Aluminum Co. Mon. Find.

SE Cor. SW 1/4
Sec. 8, T21N, R4W

Stage 2 Plans

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

INDIANA
DEPARTMENT OF TRANSPORTATION

US 231 - LINE "C"
LOCATION 3 - PLAT NO. 1

HORIZONTAL SCALE 1" = 60'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1700190
SURVEY BOOK N/A	SHEETS 15 of 161
CONTRACT R-41623	PROJECT 1700190

886

889

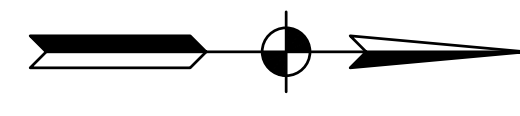
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901

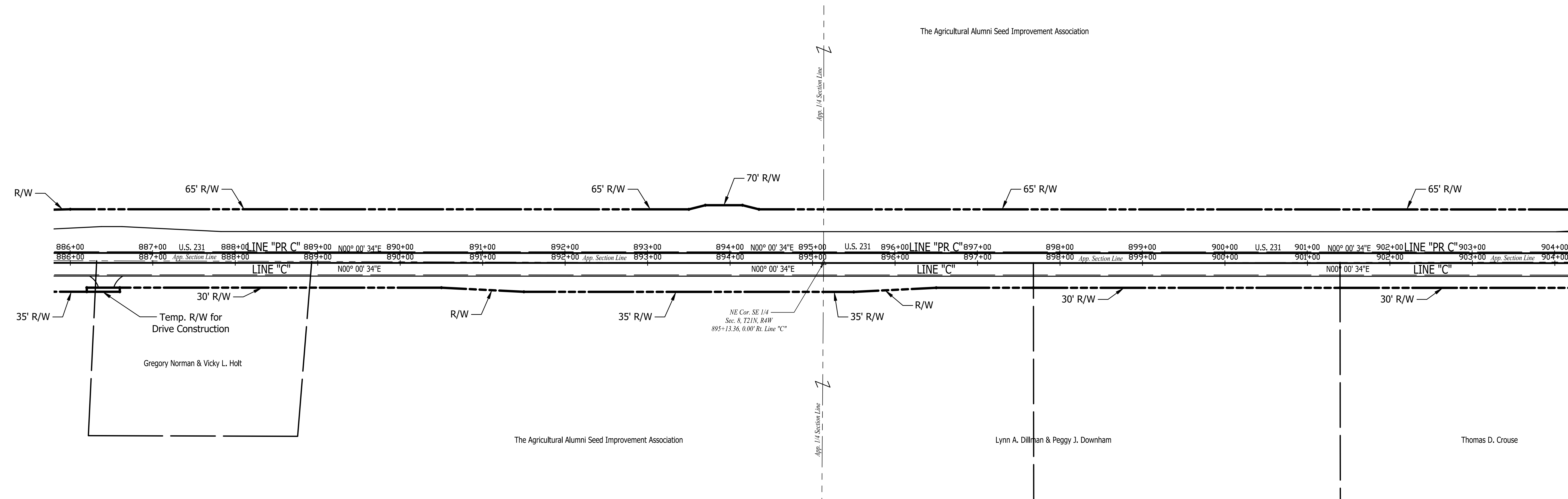
904



SEC. 7, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

The Agricultural Alumni Seed Improvement Association

SEC. 8, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.



Stage 2 Plans

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

INDIANA
DEPARTMENT OF TRANSPORTATION

US 231 - LINE "C"
LOCATION 3 - PLAT NO. 1

HORIZONTAL SCALE 1" = 60'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1700190
SURVEY BOOK N/A	SHEETS 16 of 161
CONTRACT R-41623	PROJECT 1700190

904

907

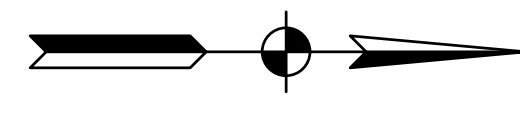
910

913

916

919

922



SEC. 7, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

NW Cor. NE 1/4
Sec. 7, T21N, R4W

NE Cor. NE 1/4
Sec. 7, T21N, R4W
Type C Monument Find.
921+71.54, 0.10' Rt. Line "C"

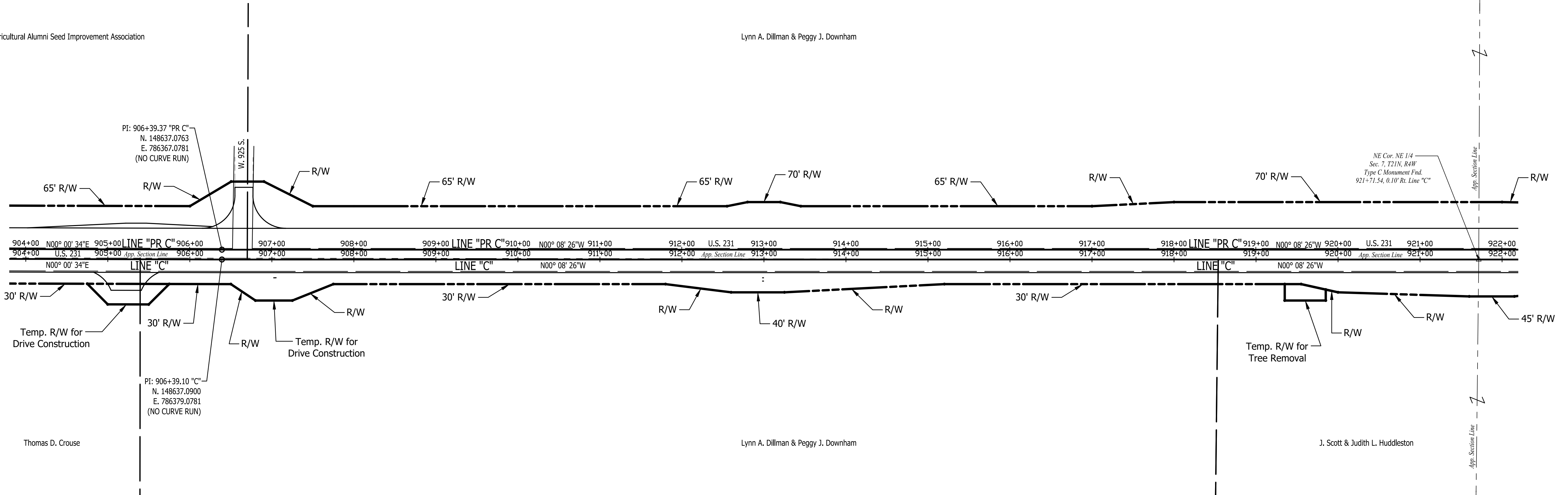
NE Cor. NW 1/4
Sec. 8, T21N, R4W

The Agricultural Alumni Seed Improvement Association

Lynn A. Dillman & Peggy J. Downham

PI: 906+39.37 "PR C"
N. 148637.0763
E. 786367.0781
(NO CURVE RUN)

PI: 906+39.10 "C"
N. 148637.0900
E. 786379.0781
(NO CURVE RUN)



Thomas D. Crouse

Lynn A. Dillman & Peggy J. Downham

J. Scott & Judith L. Huddleston

SEC. 8, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

Stage 2 Plans

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

INDIANA
DEPARTMENT OF TRANSPORTATION

US 231 - LINE "C"
LOCATION 3 - PLAT NO. 1

HORIZONTAL SCALE	BRIDGE FILE
1" = 60'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1700190
SURVEY BOOK	SHEETS
N/A	17 of 161
CONTRACT	PROJECT
R-41623	1700190

940

943

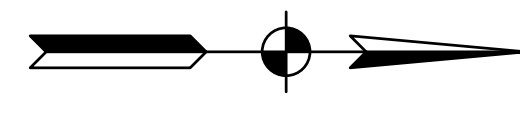
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958



SEC. 6, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

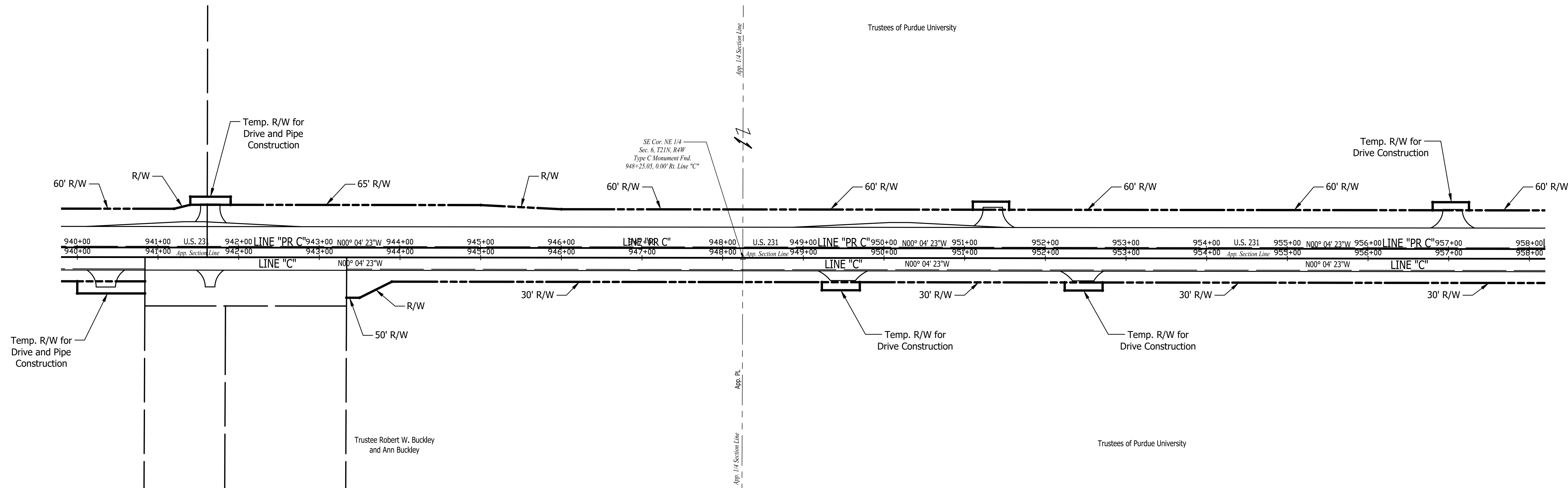
Trustees of Purdue University

SE Cor. NE 1/4
Sec. 6, T21N, R4W
Type C Monument Fnd.
946+25.05, 0.00' Rt. Line "C"

SEC. 5, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

Trustees of Purdue University

Trustee Robert W. Buckley
and Ann Buckley



Stage 2 Plans

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

INDIANA
DEPARTMENT OF TRANSPORTATION

US 231 - LINE "C"
LOCATION 3 - PLAT NO. 1

HORIZONTAL SCALE 1" = 60'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1700190
SURVEY BOOK N/A	SHEETS 19 of 161
CONTRACT R-41623	PROJECT 1700190

958

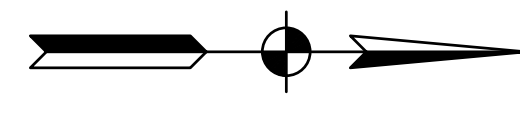
961

964

967

970

972



SEC. 6, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

Trustees of Purdue University

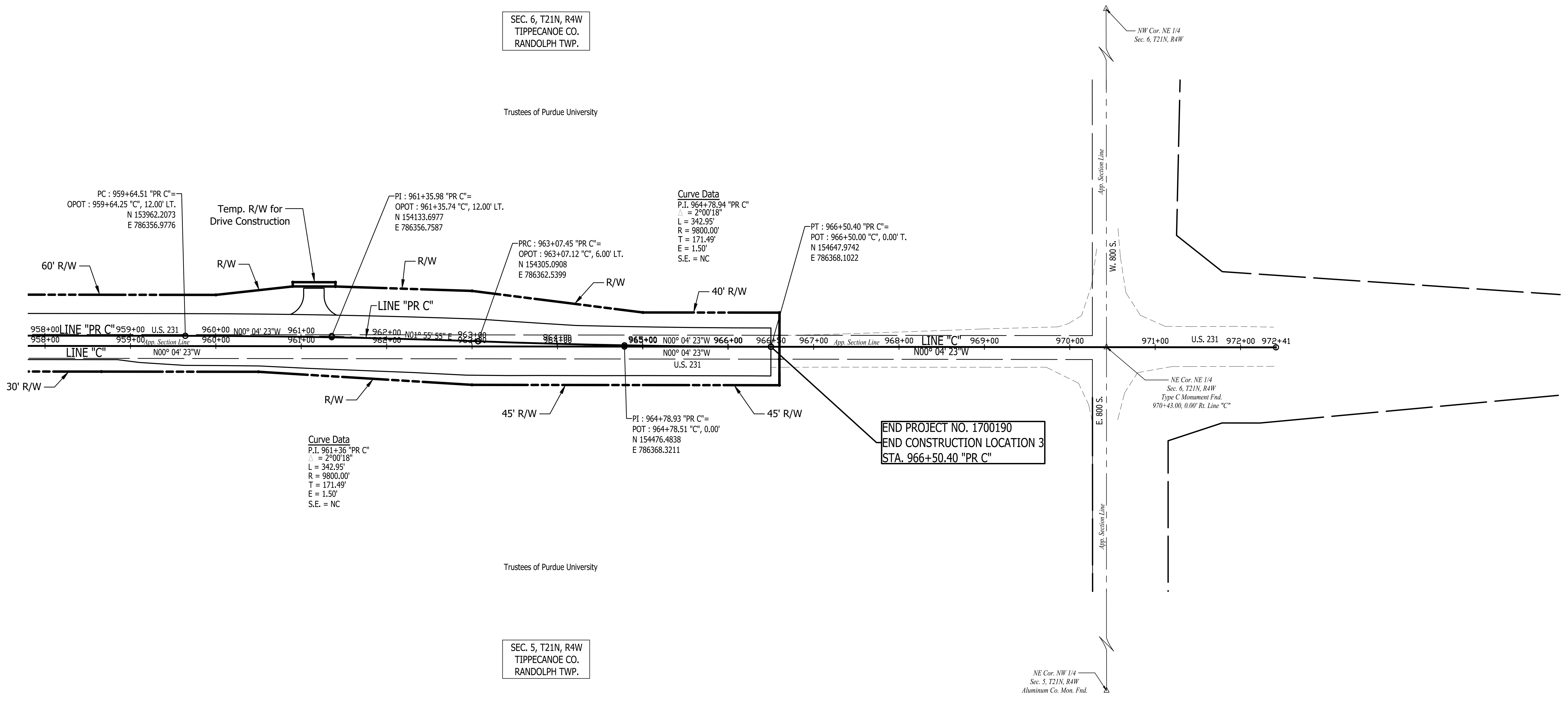
Trustees of Purdue University

SEC. 5, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

NE Cor. NW 1/4
Sec. 5, T21N, R4W
Aluminum Co. Mon. Fnd.

NW Cor. NE 1/4
Sec. 6, T21N, R4W

NE Cor. NE 1/4
Sec. 6, T21N, R4W
Type C Monument End.
970+43.00, 0.00' RI. Line "C"



Curve Data
P.I. 964+78.94 "PR C"
 $\Delta = 2^{\circ}00'18''$
L = 342.95'
R = 9800.00'
T = 171.49'
E = 1.50'
S.E. = NC

Curve Data
P.I. 961+36 "PR C"
 $\Delta = 2^{\circ}00'18''$
L = 342.95'
R = 9800.00'
T = 171.49'
E = 1.50'
S.E. = NC

PI : 964+78.93 "PR C"=
POT : 964+78.51 "C", 0.00'
N 154476.4838
E 786368.3211

PT : 966+50.40 "PR C"=
POT : 966+50.00 "C", 0.00' T.
N 154647.9742
E 786368.1022

PRC : 963+07.45 "PR C"=
OPOT : 963+07.12 "C", 6.00' LT.
N 154305.0908
E 786362.5399

PI : 961+35.98 "PR C"=
OPOT : 961+35.74 "C", 12.00' LT.
N 154133.6977
E 786356.7587

PC : 959+64.51 "PR C"=
OPOT : 959+64.25 "C", 12.00' LT.
N 153962.2073
E 786356.9776

END PROJECT NO. 1700190
END CONSTRUCTION LOCATION 3
STA. 966+50.40 "PR C"

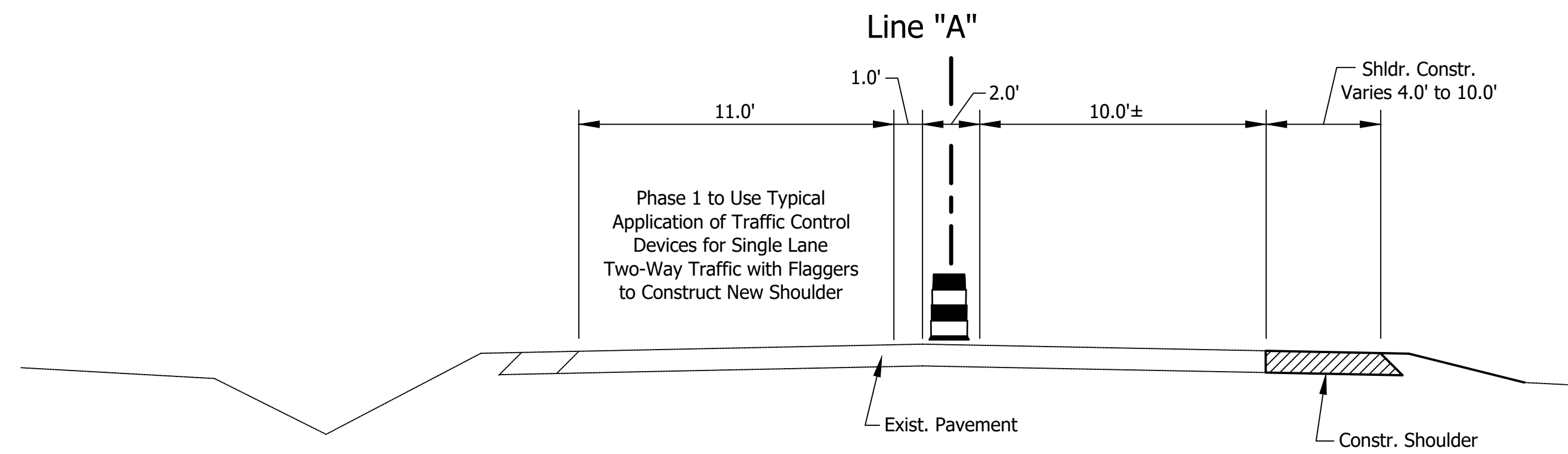
Stage 2 Plans

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

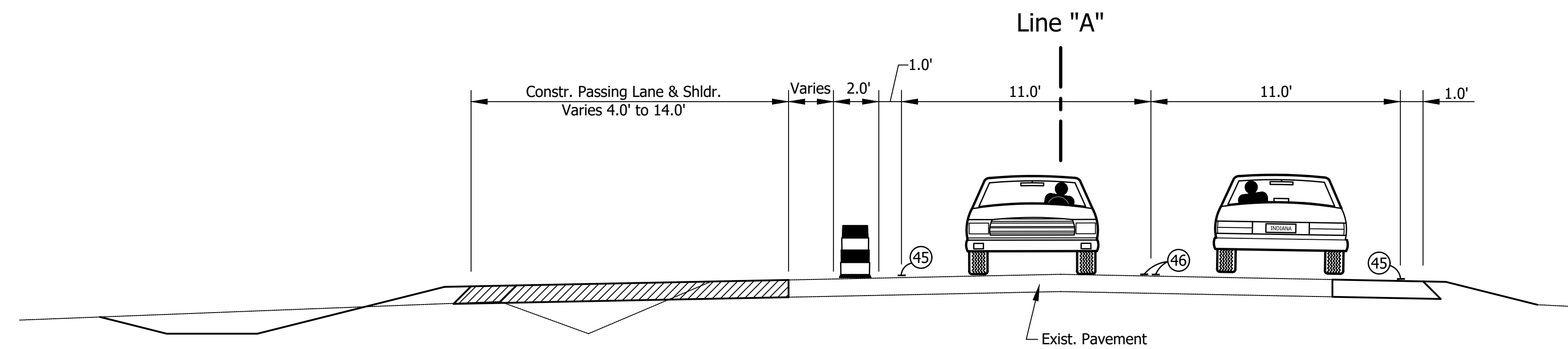
INDIANA
DEPARTMENT OF TRANSPORTATION

US 231 - LINE "C"
LOCATION 3 - PLAT NO. 1

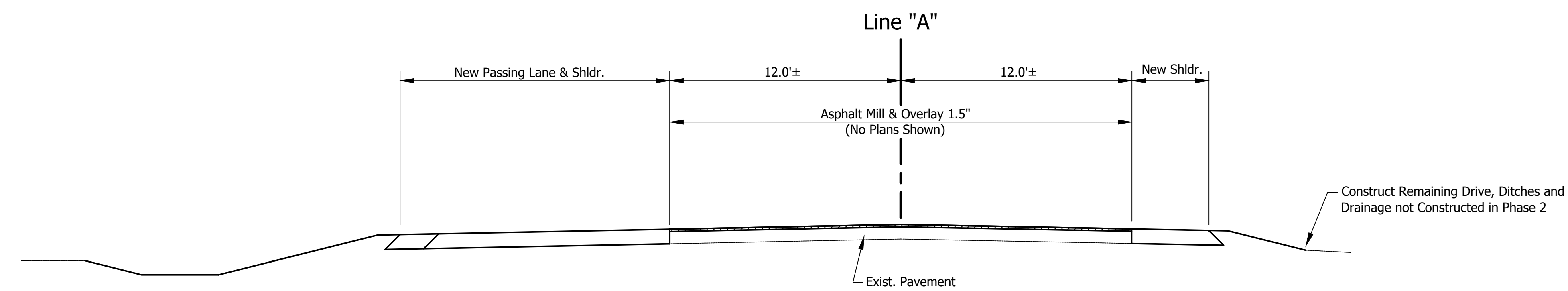
HORIZONTAL SCALE	BRIDGE FILE
1" = 60'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1700190
SURVEY BOOK	SHEETS
N/A	20 of 161
CONTRACT	PROJECT
R-41623	1700190



Location 1 - Phase 1
SCALE: 1" = 4'



Location 1 - Phase 2
SCALE: 1" = 4'



Location 1 - Phase 3
SCALE: 1" = 4'

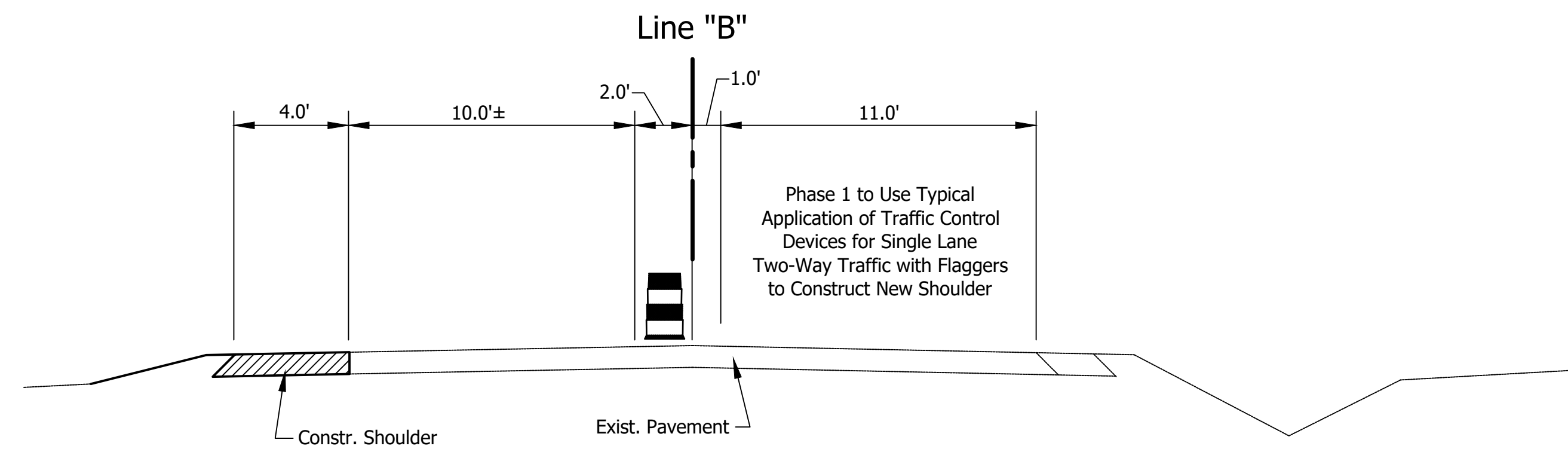
LEGEND

- ⓪41 Temp. Pavement Marking, Broken, White, 4", 2' Line, 4' Gap
- ⓪42 Temp. Pavement Marking, Broken, Yellow, 4", 2' Line, 4' Gap
- ⓪45 Temp. Pavement Marking, Solid, White, 4"
- ⓪46 Temp. Pavement Marking, Solid, Yellow, 4"
- ⓪47 Temp. Pavement Marking, Solid, White, 24"
- ↩ Temp. Pavement Marking, Lane Indication Arrow
- 🚧 Standard Drum
- Standard Drum
- ⏏ Barricade, Type III-B
- ⇐ Traffic Flow Arrow
- ⓪= Construction Signs, Type A or B w/Type "A" Construction Warning Light
- ⓪H Compacted Aggregate No. 53, Temporary for Driveways
- ▨ Area To Be Constructed During This Phase

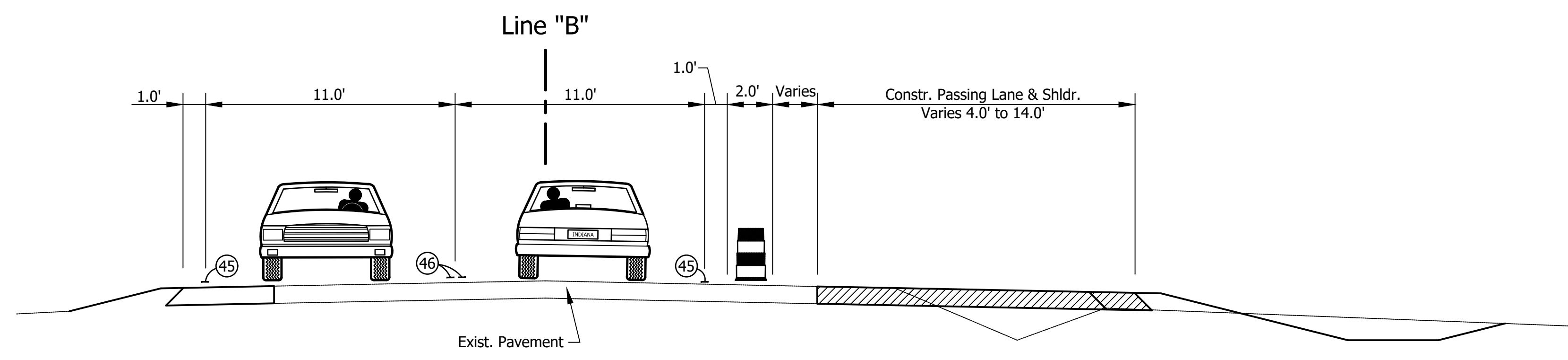
SIGN LEGEND

- ⓪49 XG20-7 - Worksite Added Penalty Sign
- ⓪50 XW20-1 - Road Construction Ahead
- ⓪51 XW13-1-A - Advisory Speed Plate
- ⓪52 XW20-3 Road Closed Ahead
- ⓪53 XW20-4 One Lane Road Ahead
- ⓪54 XG20-1 Road Construction Next XX Miles
- ⓪55 R5-1 - Do Not Enter
- ⓪56 R1-1 - Stop
- ⓪59 XW20-7 - Flagger (Sym.)
- ⓪60 XG20-2 - End Construction
- ⓪62 R11-2 - Road Closed
- ⓪63 R2-1 - Speed Limit (45 M.P.H.)

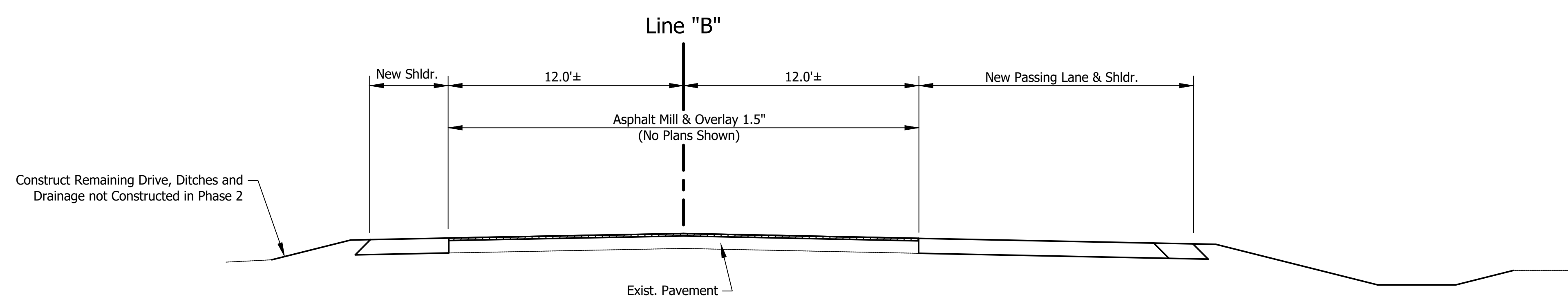
Stage 2 Plans	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE N/A	BRIDGE FILE N/A
	DESIGNED: C.E.S./B.M.S. DRAWN: B.M.S.		VERTICAL SCALE N/A	DESIGNATION 1700190
	CHECKED: C.E.S./B.M.S. CHECKED: J.L.B.		SURVEY BOOK N/A	SHEETS 21 of 161
			CONTRACT R-41623	PROJECT 1700190



Location 2 - Phase 1
SCALE: 1" = 4'



Location 2 - Phase 2
SCALE: 1" = 4'



Location 2 - Phase 3
SCALE: 1" = 4'

- LEGEND**
- ④1 Temp. Pavement Marking, Broken, White, 4", 2' Line, 4' Gap
 - ④2 Temp. Pavement Marking, Broken, Yellow, 4", 2' Line, 4' Gap
 - ④5 Temp. Pavement Marking, Solid, White, 4"
 - ④6 Temp. Pavement Marking, Solid, Yellow, 4"
 - ④7 Temp. Pavement Marking, Solid, White, 24"
 - ↩ Temp. Pavement Marking, Lane Indication Arrow
 - 🚧 Standard Drum
 - Standard Drum
 - ⚡ Barricade, Type III-B
 - ➡ Traffic Flow Arrow
 - ⊕ Construction Signs, Type A or B w/Type "A" Construction Warning Light
 - Ⓜ Compacted Aggregate No. 53, Temporary for Driveways
 - ▨ Area To Be Constructed During This Phase

- SIGN LEGEND**
- ④9 XG20-7 - Worksite Added Penalty Sign
 - ④0 XW20-1 - Road Construction Ahead
 - ④1 XW13-1-A - Advisory Speed Plate
 - ④2 XW20-3 Road Closed Ahead
 - ④3 XW20-4 One Lane Road Ahead
 - ④4 XG20-1 Road Construction Next XX Miles
 - ④5 R5-1 - Do Not Enter
 - ④6 R1-1 - Stop
 - ④7 XW20-7 - Flagger (Sym.)
 - ④8 XG20-2 - End Construction
 - ④9 R11-2 - Road Closed
 - ④0 R2-1 - Speed Limit (45 M.P.H.)

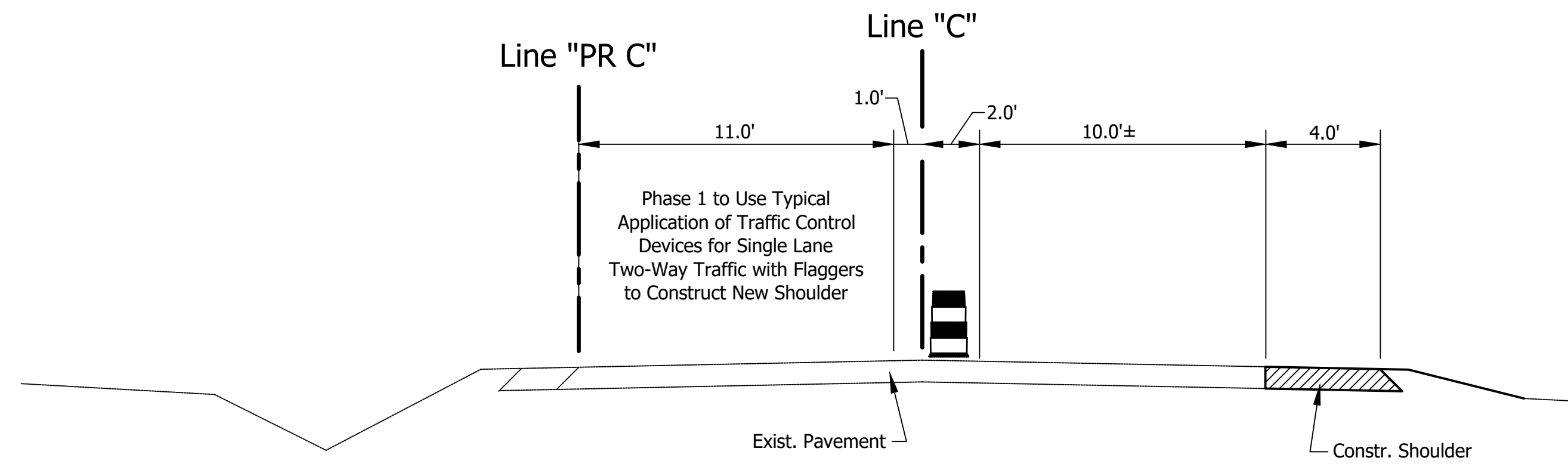
Stage 2 Plans

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

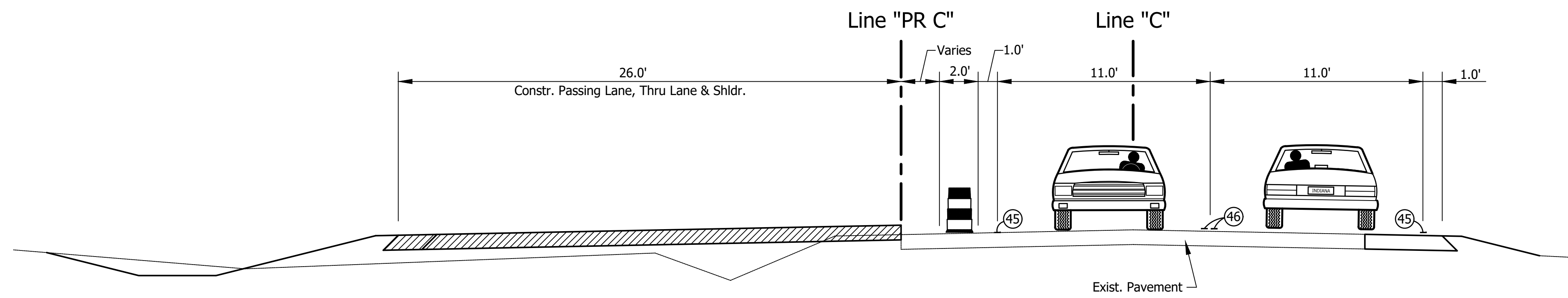
INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
TYPICAL CROSS SECTIONS

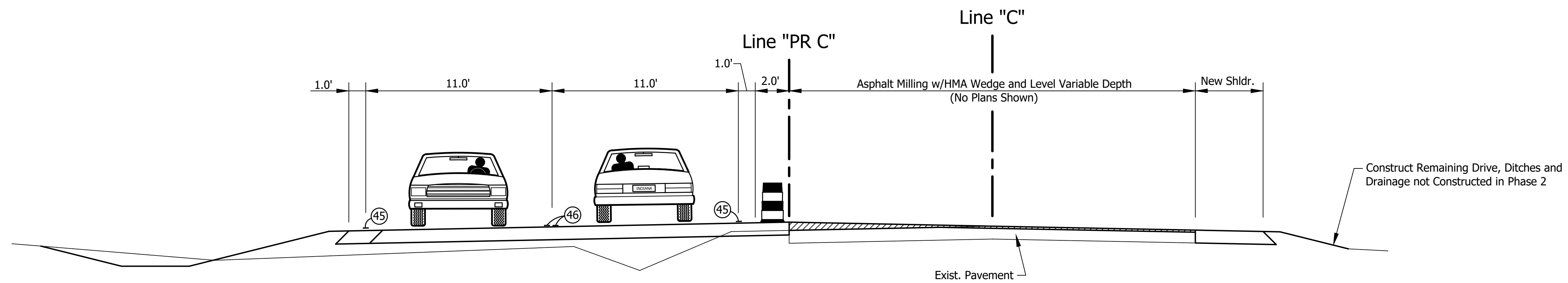
HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	1700190
SURVEY BOOK	SHEETS
N/A	22 of 161
CONTRACT	PROJECT
R-41623	1700190



Location 3 - Phase 1
SCALE: 1" = 4'



Location 3 - Phase 2
SCALE: 1" = 4'

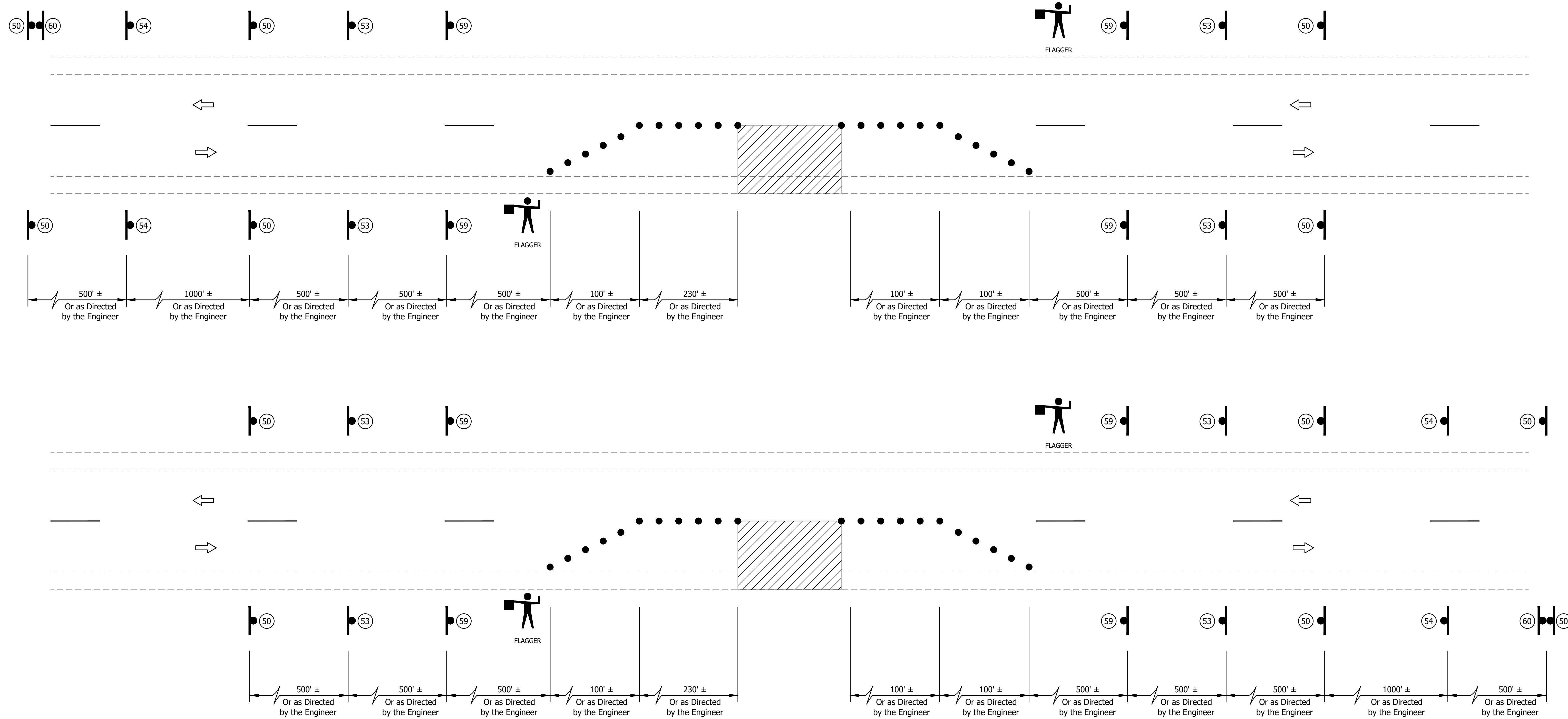


Location 3 - Phase 3
SCALE: 1" = 4'

- LEGEND**
- ⓪41 Temp. Pavement Marking, Broken, White, 4", 2' Line, 4' Gap
 - ⓪42 Temp. Pavement Marking, Broken, Yellow, 4", 2' Line, 4' Gap
 - ⓪45 Temp. Pavement Marking, Solid, White, 4"
 - ⓪46 Temp. Pavement Marking, Solid, Yellow, 4"
 - ⓪47 Temp. Pavement Marking, Solid, White, 24"
 - ↩ Temp. Pavement Marking, Lane Indication Arrow
 - 🚧 Standard Drum
 - Standard Drum
 - ⏏ Barricade, Type III-B
 - ⇐ Traffic Flow Arrow
 - ⓪= Construction Signs, Type A or B w/Type "A" Construction Warning Light
 - ⓪H Compacted Aggregate No. 53, Temporary for Driveways
 - ▨ Area To Be Constructed During This Phase

- SIGN LEGEND**
- ⓪49 XG20-7 - Worksite Added Penalty Sign
 - ⓪50 XW20-1 - Road Construction Ahead
 - ⓪51 XW13-1-A - Advisory Speed Plate
 - ⓪52 XW20-3 Road Closed Ahead
 - ⓪53 XW20-4 One Lane Road Ahead
 - ⓪54 XG20-1 Road Construction Next XX Miles
 - ⓪55 R5-1 - Do Not Enter
 - ⓪56 R1-1 - Stop
 - ⓪59 XW20-7 - Flagger (Sym.)
 - ⓪60 XG20-2 - End Construction
 - ⓪62 R11-2 - Road Closed
 - ⓪63 R2-1 - Speed Limit (45 M.P.H.)

Stage 2 Plans	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE N/A	BRIDGE FILE N/A
	DESIGNED: C.E.S./B.M.S. DRAWN: B.M.S.		VERTICAL SCALE N/A	DESIGNATION 1700190
	CHECKED: C.E.S./B.M.S. CHECKED: J.L.B.		SURVEY BOOK N/A	SHEETS 23 of 161
			CONTRACT R-41623	PROJECT 1700190



Typical Applications of Traffic Control Devices
for Single Lane Two-Way Traffic with Flaggers

LEGEND

- (41) Temp. Pavement Marking, Broken, White, 4", 2' Line, 4' Gap
- (42) Temp. Pavement Marking, Broken, Yellow, 4", 2' Line, 4' Gap
- (45) Temp. Pavement Marking, Solid, White, 4"
- (46) Temp. Pavement Marking, Solid, Yellow, 4"
- (47) Temp. Pavement Marking, Solid, White, 24"
- ↩ Temp. Pavement Marking, Lane Indication Arrow
- Standard Drum
- Standard Drum
- Barricade, Type III-B
- Traffic Flow Arrow
- Construction Signs, Type A or B w/Type "A" Construction Warning Light
- (H) Compacted Aggregate No. 53, Temporary for Driveways
- Area To Be Constructed During This Phase

SIGN LEGEND

- (49) XG20-7 - Worksite Added Penalty Sign
- (50) XW20-1 - Road Construction Ahead
- (51) XW13-1-A - Advisory Speed Plate
- (52) XW20-3 Road Closed Ahead
- (53) XW20-4 One Lane Road Ahead
- (54) XG20-1 Road Construction Next XX Miles
- (55) R5-1 - Do Not Enter
- (56) R1-1 - Stop
- (59) XW20-7 - Flagger (Sym.)
- (60) XG20-2 - End Construction
- (62) R11-2 - Road Closed
- (63) R2-1 - Speed Limit (45 M.P.H.)

Stage 2 Plans

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: C.E.S./B.M.S.	DRAWN: B.M.S.	
CHECKED: C.E.S./B.M.S.	CHECKED: J.L.B.	

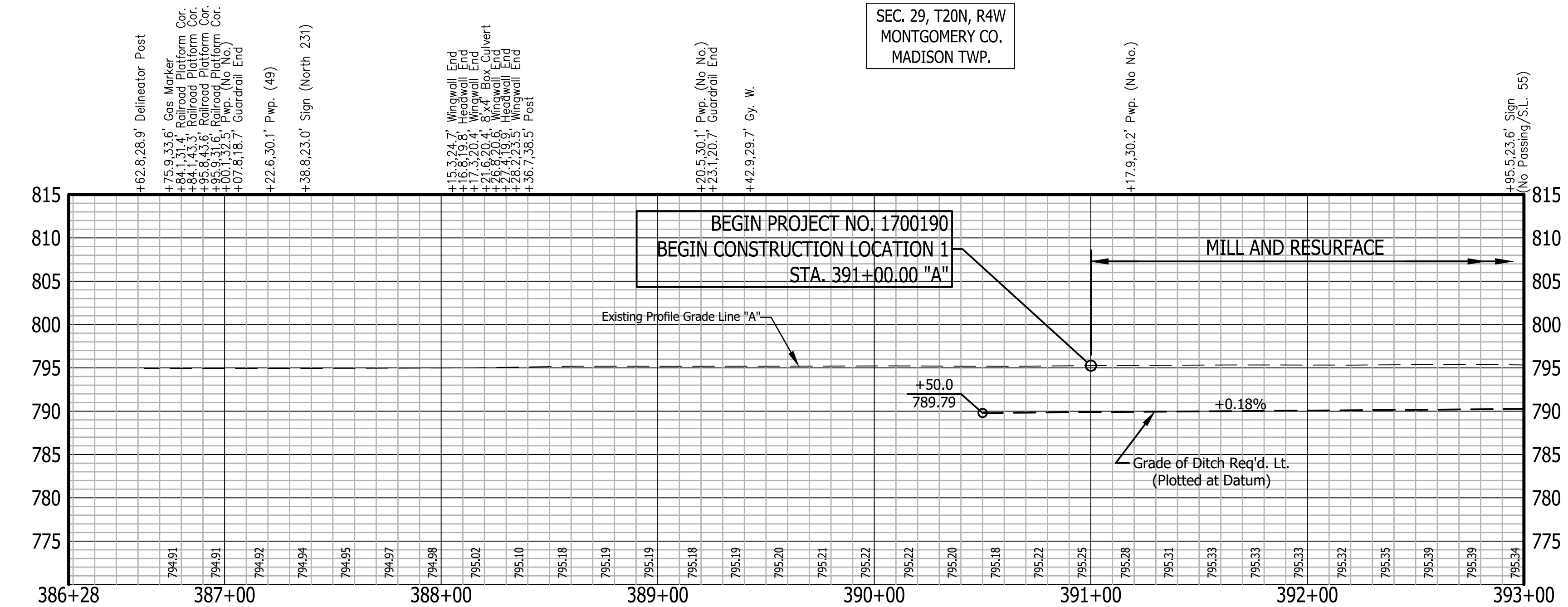
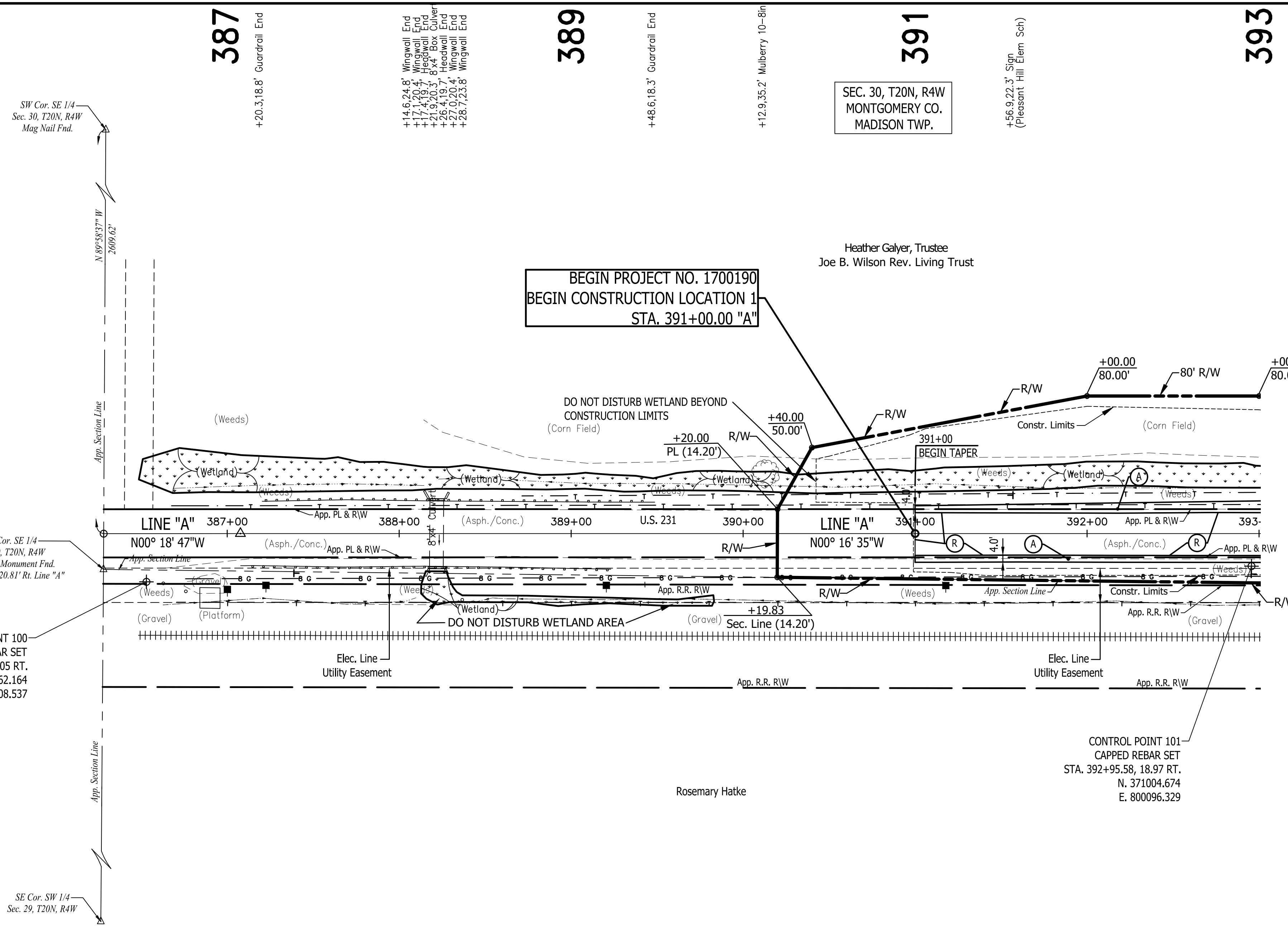
**INDIANA
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
FLAGGER OPERATIONS**

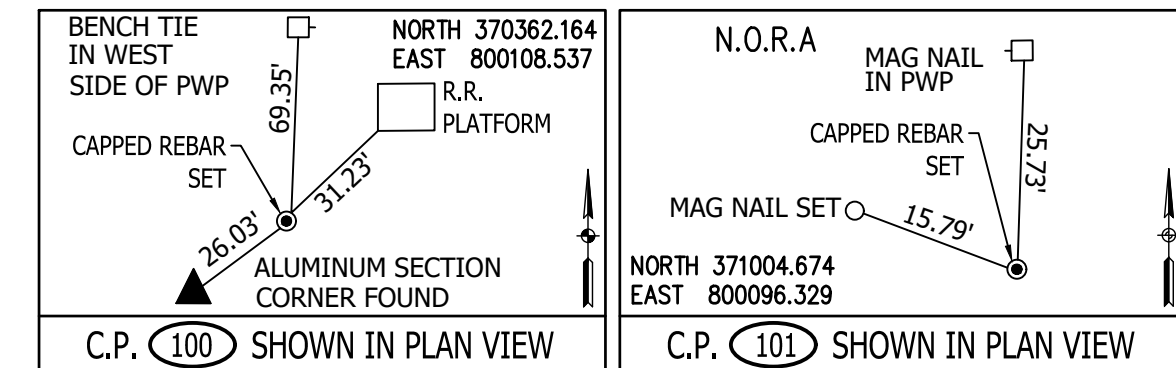
HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	1700190
SURVEY BOOK	SHEETS
N/A	24 of 161
CONTRACT	PROJECT
R-41623	1700190

LEGEND

- (A) Preliminary Pavement:
165#/Syd QC/QA-HMA 3, 64, Surface 9.5 mm on
275#/Syd QC/QA-HMA 3, 64, Intermediate 19.0 mm on
660#/Syd QC/QA-HMA 3, 64, Base, 19.0 mm (2 Lifts) on
Subgrade Treatment Type XX
- (A1) HMA for Approaches, Type C:
165#/Syd HMA Surface Type C on
275#/Syd HMA Intermediate Type C on
330#/Syd HMA Base Type C on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D1) HMA for Approaches, Type B:
165#/Syd HMA Surface Type B on
275#/Syd HMA Intermediate Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D2) HMA for Approaches, Type B:
165#/Syd HMA Surface, Type B on
275#/Syd HMA Intermediate, Type B on
660#/Syd HMA Base, Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II on
Geogrid, Type 1B
- (D3) 12" Compacted Aggregate No. 53
- (O) Variable Depth Compacted Aggregate, No. 53
- (R) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (RO) Resurfacing to be Done By Others
Under INDOT Des. No. 2000867
2" Asphalt Milling With
220#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (R1) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on
Variable QC/QA-HMA, 3, 64, Intermediate, 19.0 mm
(275#/Syd. Minimum, 385#/Syd. Maximum -
Increase Milling Depth as Needed to Insure
Proper Minimum HMA Thickness)
- (T) Asphalt Material for Tack Coat
- (26) Sodding (Nursery) W/Topsoil
(4" As Req'd. Under Sodding)
- (27) Seed Mixture, R



"All R/W On This Sheet To Be As Shown"
 "All R/W Described From Line "A" Except As Shown"
 All Existing Topography Described From Line "A"
 TBM #1 - BENCH TIE SET IN WEST SIDE PWP
 STA 387+22.37 "A" 29.41 FEET RIGHT. ELEV. 793.77
 TBM #2 - BENCH TIE SET IN WEST SIDE PWP
 STA 403+15.97 "A" 29.19 FEET RIGHT. ELEV. 799.48



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

INDIANA
DEPARTMENT OF TRANSPORTATION

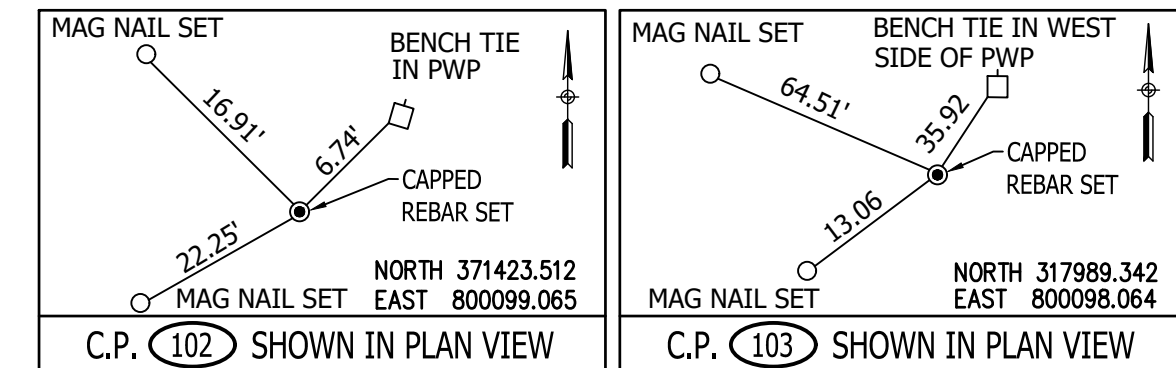
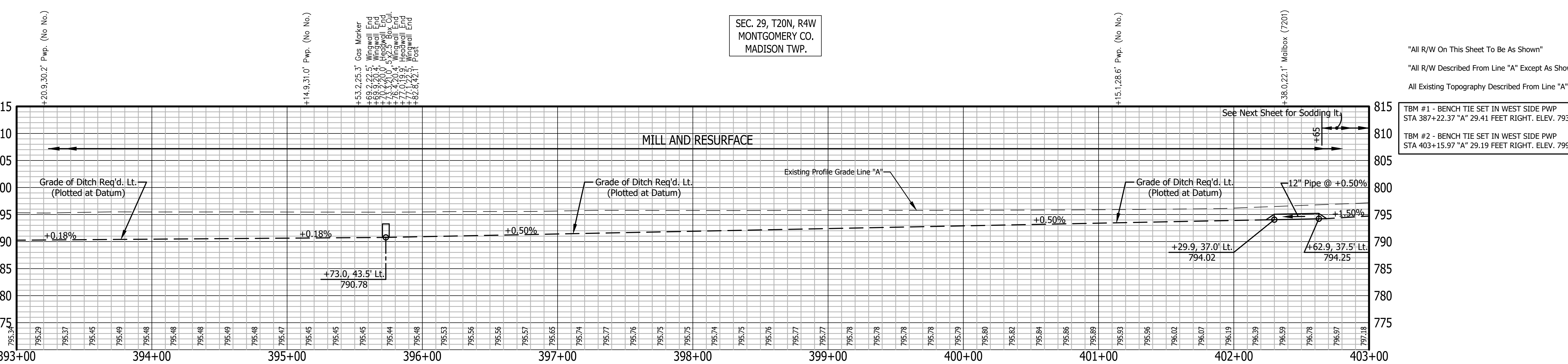
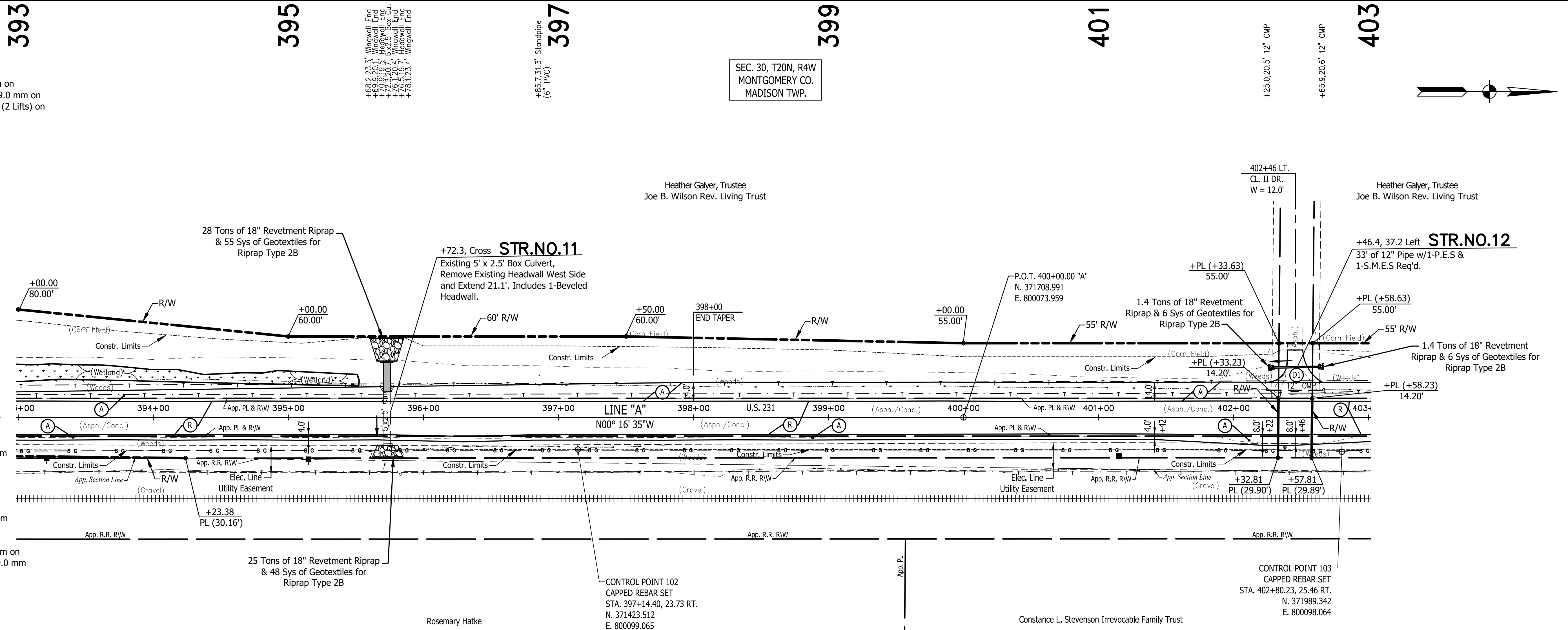
U.S. 231- LINE "A"
PLAN AND PROFILE SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1700190
SURVEY BOOK	SHEETS
N/A	25 of 161
CONTRACT	PROJECT
R-41623	1700190

Stage 2 Plans

LEGEND

- (A) Preliminary Pavement:
165#/Syd QC/QA-HMA 3, 64, Surface 9.5 mm on
275#/Syd QC/QA-HMA 3, 64, Intermediate 19.0 mm on
660#/Syd QC/QA-HMA 3, 64, Base, 19.0 mm (2 Lifts) on
Subgrade Treatment Type XX
- (A1) HMA for Approaches, Type C:
165#/Syd HMA Surface Type C on
275#/Syd HMA Intermediate Type C on
330#/Syd HMA Base Type C on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D1) HMA for Approaches, Type B:
165#/Syd HMA Surface Type B on
275#/Syd HMA Intermediate Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D2) HMA for Approaches, Type B:
165#/Syd HMA Surface, Type B on
275#/Syd HMA Intermediate, Type B on
660#/Syd HMA Base, Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II on
Geogrid, Type 1B
- (D3) 12" Compacted Aggregate No. 53
- (O) Variable Depth Compacted Aggregate, No. 53
- (R) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (RO) Resurfacing to be Done By Others
Under INDOT Des. No. 2000867
2" Asphalt Milling With
220#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (R1) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on
Variable QC/QA-HMA, 3, 64, Intermediate, 19.0 mm
(275#/Syd. Minimum, 385#/Syd. Maximum -
Increase Milling Depth as Needed to Insure
Proper Minimum HMA Thickness)
- (T) Asphalt Material for Tack Coat
- (26) Sodding (Nursery) W/Topsoil
(4" As Req'd. Under Sodding)
- (27) Seed Mixture, R



Stage 2 Plans

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

INDIANA DEPARTMENT OF TRANSPORTATION

U.S. 231- LINE "A"

PLAN AND PROFILE SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1700190
SURVEY BOOK	SHEETS
N/A	26 of 161
CONTRACT	PROJECT
R-41623	1700190

403 Pwp. (No No.)
 +08.4,38.3' Pwp. (No No.)
 +14.7,29.0' Pwp. (No No.)
 +19.1,22.2' Gas Marker

405 Fiber Marker
 +66.1,32.0'

407 Tele. Ped.
 +37.9,30.2'

409 Tele. Ped.
 +21.7,32.6'

411 Pwp. (No No.)
 +13.0,6.7' Pwp. (No No.)
 +16.1,12.4' Pwp. (No No.)
 +18.2,18.1' Pwp. (No No.)
 +20.3,24.0' Pwp. (No No.)
 +22.4,29.9' Pwp. (No No.)
 +24.5,35.8' Pwp. (No No.)
 +26.6,41.7' Pwp. (No No.)
 +28.7,47.6' Pwp. (No No.)
 +30.8,53.5' Pwp. (No No.)
 +32.9,59.4' Pwp. (No No.)
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 +37.1,71.2' Pwp. (No No.)
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 +41.3,83.0' Pwp. (No No.)
 +43.4,88.9' Pwp. (No No.)
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 +56.0,124.3' Pwp. (No No.)
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 +60.2,136.1' Pwp. (No No.)
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 +123.2,313.1' Pwp. (No No.)
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 +396.2,1080.1' Pwp. (No No.)
 +398.3,1086.0' Pwp. (No No.)
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SEC. 30, T20N, R4W
 MONTGOMERY CO.
 MADISON TWP.

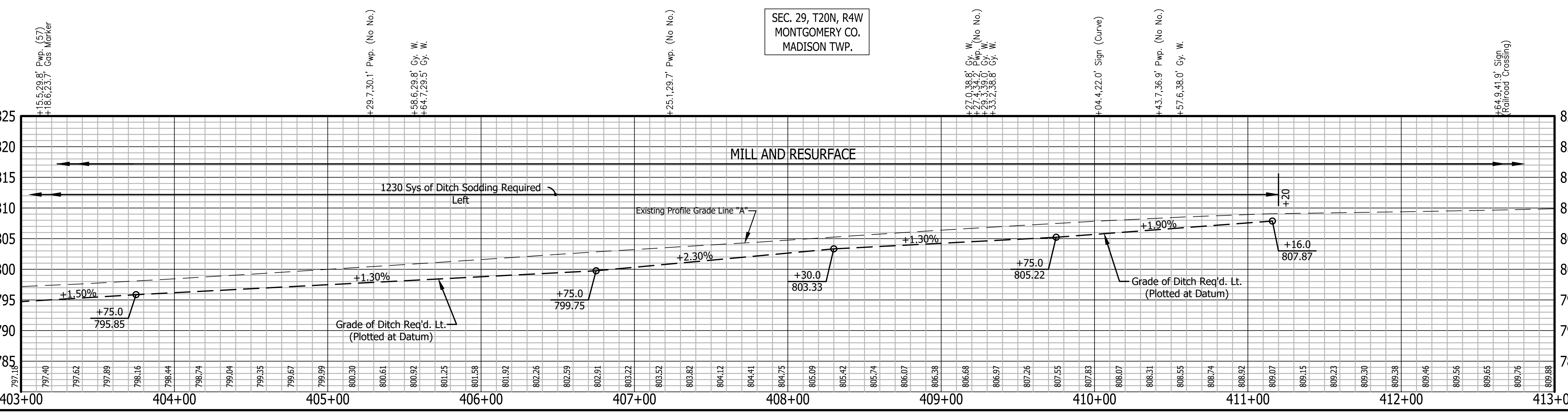
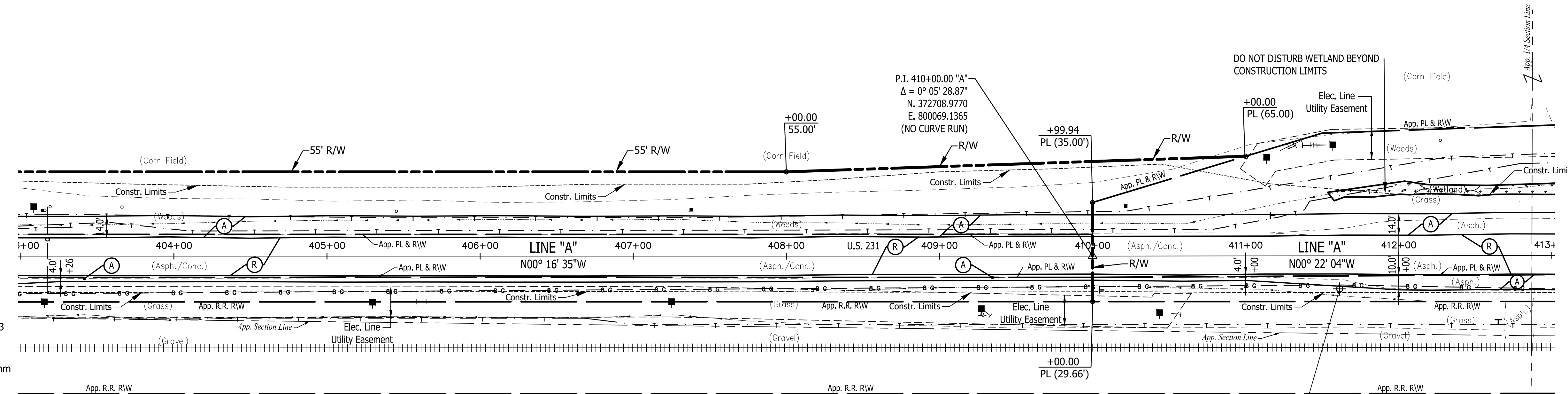
Heather Galyer, Trustee
 Joe B. Wilson Rev. Living Trust

Constance L. Stevenson Irrevocable Family Trust

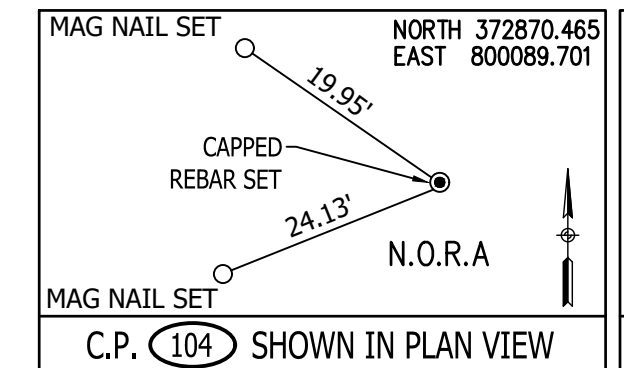
The Michael and Karen
 Patton Living Trust

LEGEND

- (A) Preliminary Pavement:
 165#/Syd QC/QA-HMA 3, 64, Surface 9.5 mm on
 275#/Syd QC/QA-HMA 3, 64, Intermediate 19.0 mm on
 660#/Syd QC/QA-HMA 3, 64, Base, 19.0 mm (2 Lifts) on
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- (D1) HMA for Approaches, Type B:
 165#/Syd HMA Surface Type B on
 275#/Syd HMA Intermediate Type B on
 6" Compacted Aggregate No. 53 on
 Subgrade Treatment Type II
- (D2) HMA for Approaches, Type B:
 165#/Syd HMA Surface, Type B on
 275#/Syd HMA Intermediate, Type B on
 660#/Syd HMA Base, Type B on
 6" Compacted Aggregate No. 53 on
 Subgrade Treatment Type II on
 Geogrid, Type 1B
- (D3) 12" Compacted Aggregate No. 53
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- (R) 1-1/2" Asphalt Milling With
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 165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on
 Variable QC/QA-HMA, 3, 64, Intermediate, 19.0 mm
 (275#/Syd. Minimum, 385#/Syd. Maximum -
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- (T) Asphalt Material for Tack Coat
- (26) Sodding (Nursery) W/Topsoil
 (4" As Req'd. Under Sodding)
- (27) Seed Mixture, R



"All R/W On This Sheet To Be As Shown"
 "All R/W Described From Line "A" Except As Shown"
 All Existing Topography Described From Line "A"
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 STA 387+22.37 "A" 29.41 FEET RIGHT. ELEV. 793.77
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 STA 403+15.97 "A" 29.19 FEET RIGHT. ELEV. 799.48



797.185	797.40	797.62	797.89	798.16	798.44	798.74	799.04	799.35	799.67	799.99	800.30	800.61	800.92	801.25	801.58	801.92	802.26	802.59	802.91	803.22	803.52	803.82	804.12	804.41	804.75	805.09	805.42	805.74	806.07	806.38	806.68	806.97	807.26	807.55	807.83	808.07	808.31	808.55	808.74	808.92	809.07	809.15	809.23	809.30	809.38	809.46	809.56	809.65	809.76	809.88
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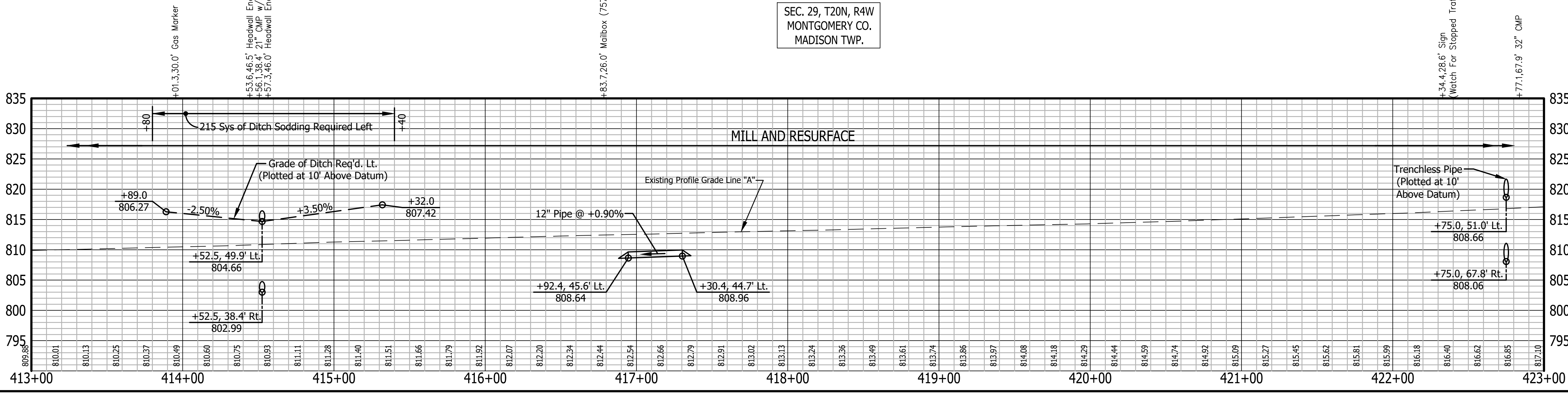
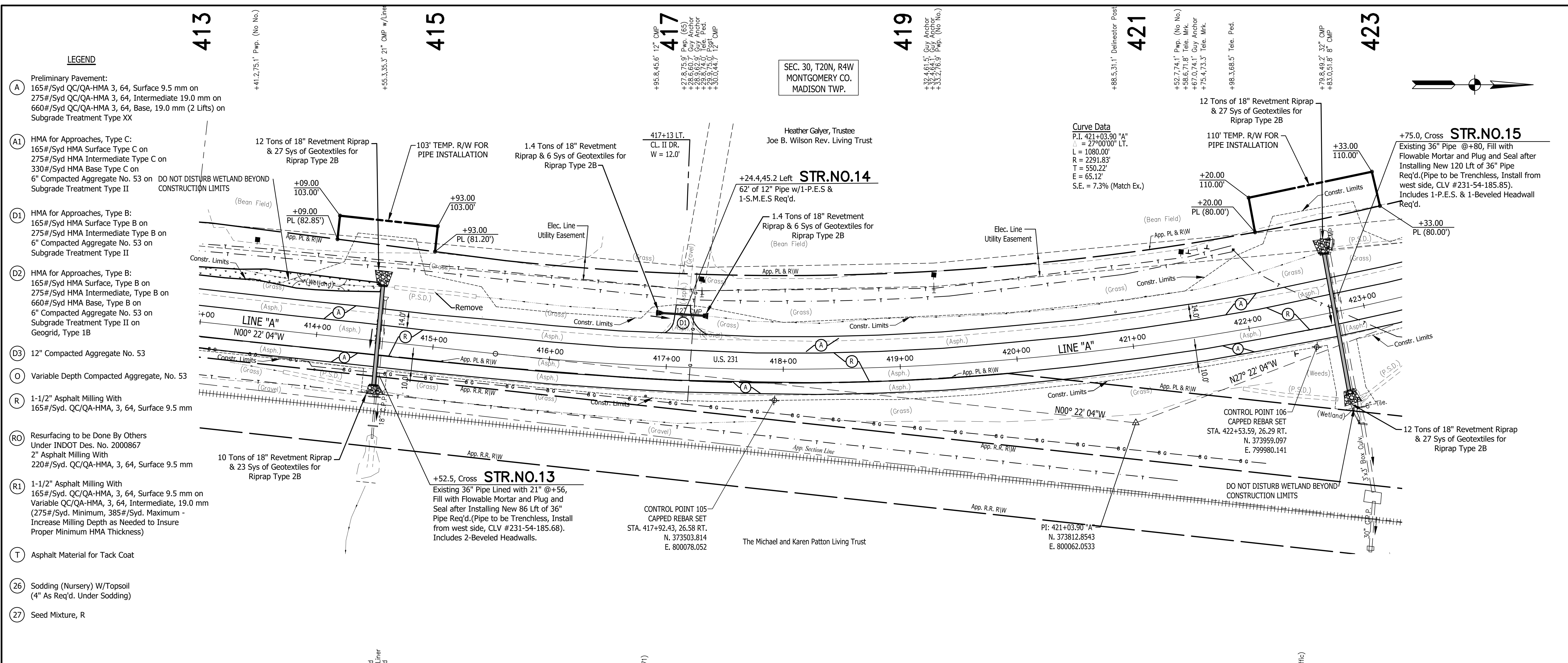
Stage 2 Plans

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

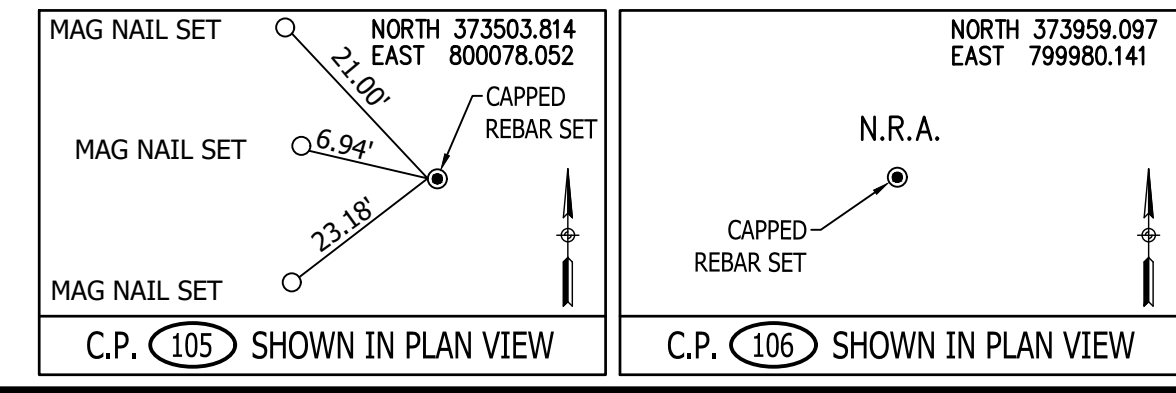
INDIANA
 DEPARTMENT OF TRANSPORTATION

U.S. 231- LINE "A"
 PLAN AND PROFILE SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1700190
SURVEY BOOK	SHEETS
N/A	27 of 161
CONTRACT	PROJECT
R-41623	1700190



"All R/W On This Sheet To Be As Shown"
 "All R/W Described From Line "A" Except As Shown"
 All Existing Topography Described From Line "A"
 TBM #1 - BENCH TIE SET IN WEST SIDE PWP STA 387+22.37 "A" 29.41 FEET RIGHT. ELEV. 793.77
 TBM #2 - BENCH TIE SET IN WEST SIDE PWP STA 403+15.97 "A" 29.19 FEET RIGHT. ELEV. 799.48



Stage 2 Plans

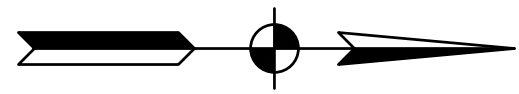
RECOMMENDED FOR APPROVAL _____
 DESIGN ENGINEER _____ DATE _____

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.
 CHECKED: B.M.S./C.E.S. CHECKED: J.L.B.

INDIANA DEPARTMENT OF TRANSPORTATION
 U.S. 231- LINE "A"
 PLAN AND PROFILE SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1700190
SURVEY BOOK	SHEETS
N/A	28 of 161
CONTRACT	PROJECT
R-41623	1700190

SEC. 30, T20N, R4W
MONTGOMERY CO.
MADISON TWP.



LEGEND

- (A) Preliminary Pavement:
165#/Syd QC/QA-HMA 3, 64, Surface 9.5 mm on
275#/Syd QC/QA-HMA 3, 64, Intermediate 19.0 mm on
660#/Syd QC/QA-HMA 3, 64, Base, 19.0 mm (2 Lifts) on
Subgrade Treatment Type XX
- (A1) HMA for Approaches, Type C:
165#/Syd HMA Surface Type C on
275#/Syd HMA Intermediate Type C on
330#/Syd HMA Base Type C on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D1) HMA for Approaches, Type B:
165#/Syd HMA Surface Type B on
275#/Syd HMA Intermediate Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D2) HMA for Approaches, Type B:
165#/Syd HMA Surface, Type B on
275#/Syd HMA Intermediate, Type B on
660#/Syd HMA Base, Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II on
Geogrid, Type 1B
- (D3) 12" Compacted Aggregate No. 53
- (O) Variable Depth Compacted Aggregate, No. 53
- (R) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (RO) Resurfacing to be Done By Others
Under INDOT Des. No. 2000867
2" Asphalt Milling With
220#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (R1) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on
Variable QC/QA-HMA, 3, 64, Intermediate, 19.0 mm
(275#/Syd. Minimum, 385#/Syd. Maximum -
Increase Milling Depth as Needed to Insure
Proper Minimum HMA Thickness)
- (T) Asphalt Material for Tack Coat
- (26) Sodding (Nursery) W/Topsoil
(4" As Req'd. Under Sodding)
- (27) Seed Mixture, R

DO NOT DISTURB WETLAND BEYOND
CONSTRUCTION LIMITS

(Bean Field)

(Weeds)

(Weeds)

(Weeds)

(Weeds)

(Weeds)

(Weeds)

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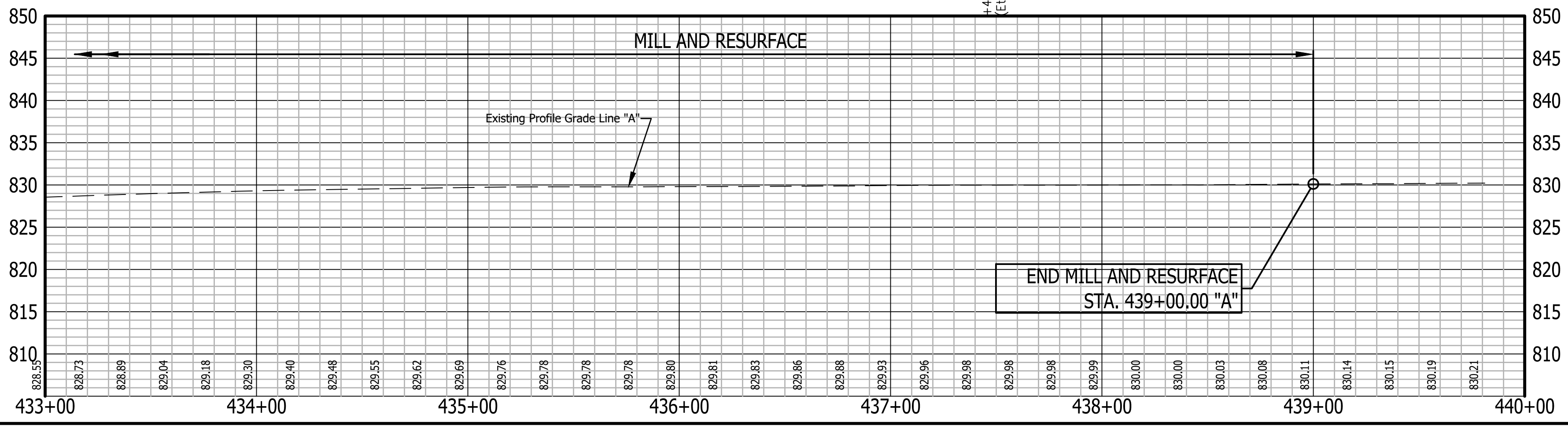
(Weeds)

(Weeds)

(Weeds)

(Weeds)

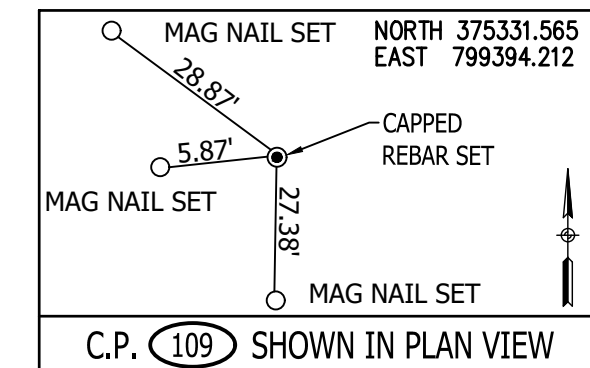
(Weeds)



Curve Data
P.I. 446+64.85 "A"
 $\Delta = 67^{\circ}00'00"$ RT.
L = 2680.00'
R = 2291.83'
T = 1516.93'
E = 456.54'
S.E. = 6.6% (Match Ex.)

CONTROL POINT 109
CAPPED REBAR SET
STA. 437+53.13, 26.53 RT.
N. 375331.565
E. 799394.212

"All R/W On This Sheet To Be As Shown"
"All R/W Described From Line "A" Except As Shown"
All Existing Topography Described From Line "A"
TBM #1 - BENCH TIE SET IN WEST SIDE PWP
STA 387+22.37 "A" 29.41 FEET RIGHT. ELEV. 793.77
TBM #2 - BENCH TIE SET IN WEST SIDE PWP
STA 403+15.97 "A" 29.19 FEET RIGHT. ELEV. 799.48



Stage 2 Plans

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

INDIANA
DEPARTMENT OF TRANSPORTATION
U.S. 231- LINE "A"
PLAN AND PROFILE SHEET

HORIZONTAL SCALE 1" = 40'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 10'	DESIGNATION 1700190
SURVEY BOOK N/A	SHEETS 30 of 161
CONTRACT R-41623	PROJECT 1700190

450

452

454

456

458

SEC. 19, T20N, R4W
MONTGOMERY CO.
MADISON TWP.

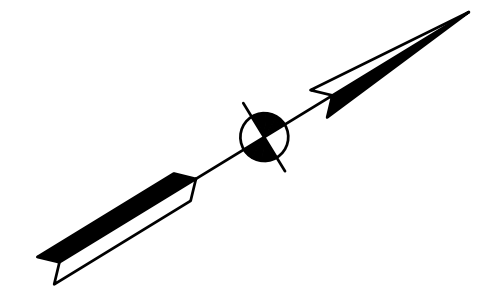
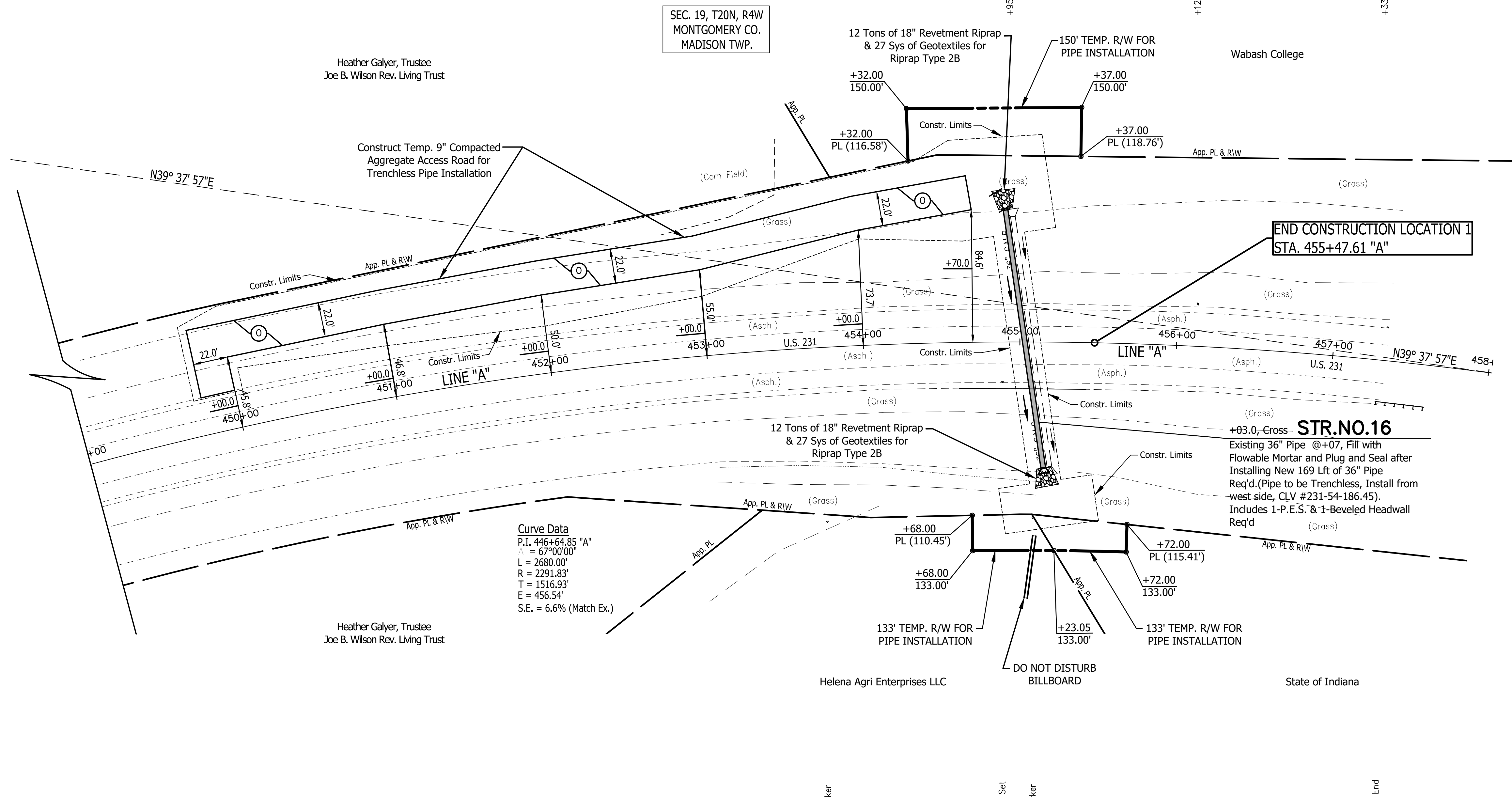
Heather Galyer, Trustee
Joe B. Wilson Rev. Living Trust

Heather Galyer, Trustee
Joe B. Wilson Rev. Living Trust

Helena Agri Enterprises LLC

State of Indiana

Wabash College



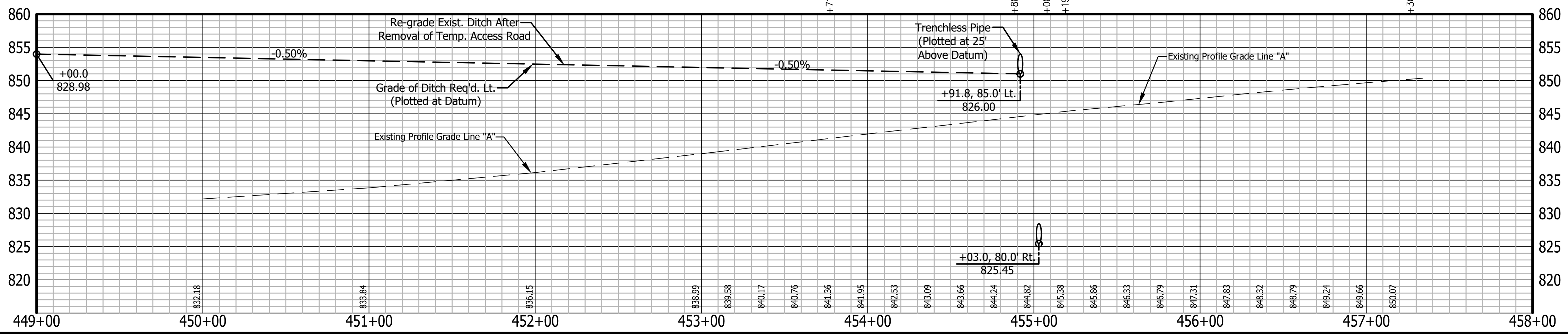
LEGEND

- (A) Preliminary Pavement: 165#/Syd QC/QA-HMA 3, 64, Surface 9.5 mm on 275#/Syd QC/QA-HMA 3, 64, Intermediate 19.0 mm on 660#/Syd QC/QA-HMA 3, 64, Base, 19.0 mm (2 Lifts) on Subgrade Treatment Type XX
- (A1) HMA for Approaches, Type C: 165#/Syd HMA Surface Type C on 275#/Syd HMA Intermediate Type C on 330#/Syd HMA Base Type C on 6" Compacted Aggregate No. 53 on Subgrade Treatment Type II
- (D1) HMA for Approaches, Type B: 165#/Syd HMA Surface Type B on 275#/Syd HMA Intermediate Type B on 6" Compacted Aggregate No. 53 on Subgrade Treatment Type II
- (D2) HMA for Approaches, Type B: 165#/Syd HMA Surface, Type B on 275#/Syd HMA Intermediate, Type B on 660#/Syd HMA Base, Type B on 6" Compacted Aggregate No. 53 on Subgrade Treatment Type II on Geogrid, Type 1B
- (D3) 12" Compacted Aggregate No. 53
- (O) Variable Depth Compacted Aggregate, No. 53
- (R) 1-1/2" Asphalt Milling With 165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (RO) Resurfacing to be Done By Others Under INDOT Des. No. 2000867 2" Asphalt Milling With 220#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (R1) 1-1/2" Asphalt Milling With 165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on Variable QC/QA-HMA, 3, 64, Intermediate, 19.0 mm (275#/Syd. Minimum, 385#/Syd. Maximum - Increase Milling Depth as Needed to Insure Proper Minimum HMA Thickness)
- (T) Asphalt Material for Tack Coat
- (26) Sodding (Nursery) W/Topsail (4" As Req'd. Under Sodding)
- (27) Seed Mixture, R

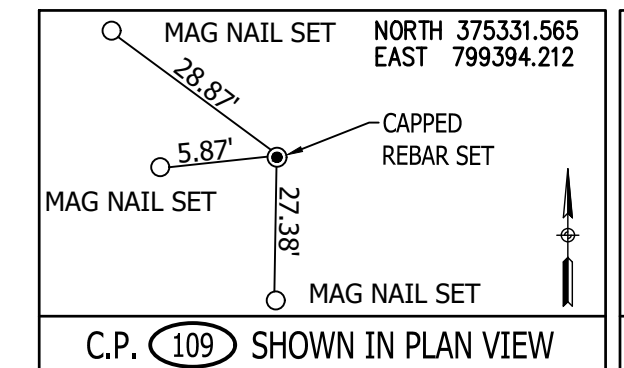
Curve Data
 P.I. 446+64.85 "A"
 Δ = 67°00'00"
 L = 2680.00'
 R = 2291.83'
 T = 1516.93'
 E = 456.54'
 S.E. = 6.6% (Match Ex.)

END CONSTRUCTION LOCATION 1
 STA. 455+47.61 "A"

STR. NO. 16
 Existing 36" Pipe @+07, Fill with Flowable Mortar and Plug and Seal after Installing New 169 Lft of 36" Pipe Req'd. (Pipe to be Trenchless, Install from west side, CLV #231-54-186.45). Includes 1-P.E.S. & 1-Beveled Headwall Req'd



"All R/W On This Sheet To Be As Shown"
 "All R/W Described From Line "A" Except As Shown"
 All Existing Topography Described From Line "A"
 TBM #1 - BENCH TIE SET IN WEST SIDE PWP STA 387+22.37 "A" 29.41 FEET RIGHT. ELEV. 793.77
 TBM #2 - BENCH TIE SET IN WEST SIDE PWP STA 403+15.97 "A" 29.19 FEET RIGHT. ELEV. 799.48

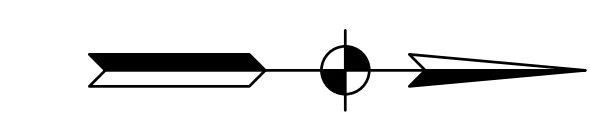


Stage 2 Plans

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

INDIANA DEPARTMENT OF TRANSPORTATION
 U.S. 231- LINE "A"
 PLAN AND PROFILE SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1700190
SURVEY BOOK	SHEETS
N/A	31 of 161
CONTRACT	PROJECT
R-41623	1700190



SEC. 31, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

Bruce D. & Jerrie S. Barry

Richard J. Ruppel Family
Limited Partnership

Wayne S. Anderson Trust

Wayne S. Anderson Trust

Wayne S. Anderson Trust

SEC. 32, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

+45.7,25.3' 15" GMP End
+62.2,32.3' Pwp. (16)
+64.6,29.6' Tele. Ped.
+64.9,30.1' Post (Wood)
+72.9,25.1' Mailbox
+85.7,24.0' 15" GMP End

+39.2,31.5' Pwp. (17)

+23.9,31.6' Fiber Optic Marker

+96.3,30.3' Pwp. (No No.)
+97.2,85.6' Pwp. (1)

688
+00.0,29.7' Post (Wood)
+00.9,29.7' Tele. Ped.
+05.6,72.1' Guy Anchor
+06.3,31.1' Tele. Ped.
+08.9,46.5' Shrub
+09.9,66.8' Guy Anchor
+11.3,30.6' Post (Conc. 15x15)
+12.2,30.6' R/W Marker

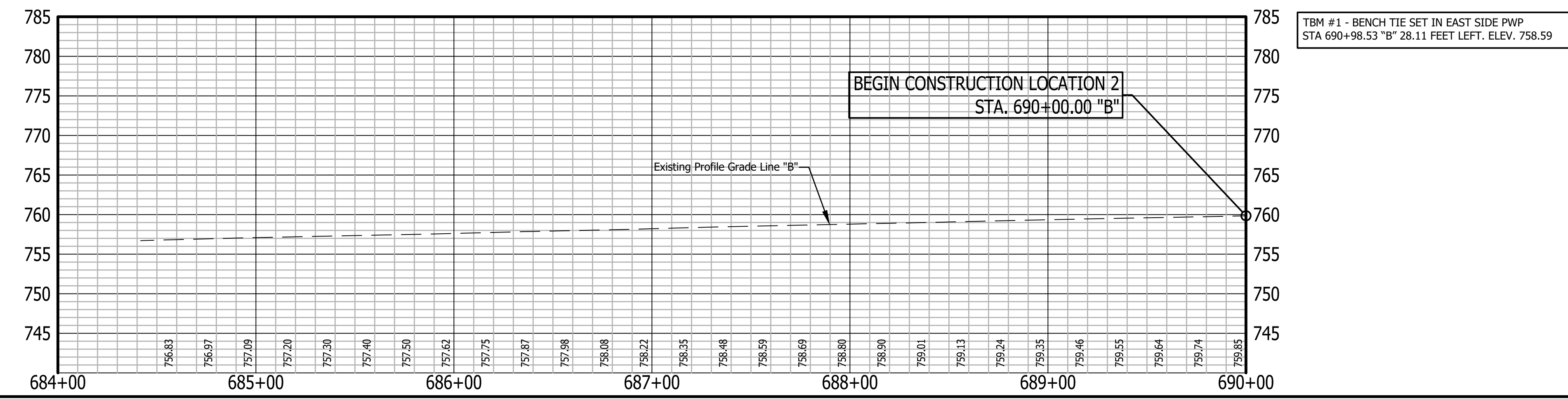
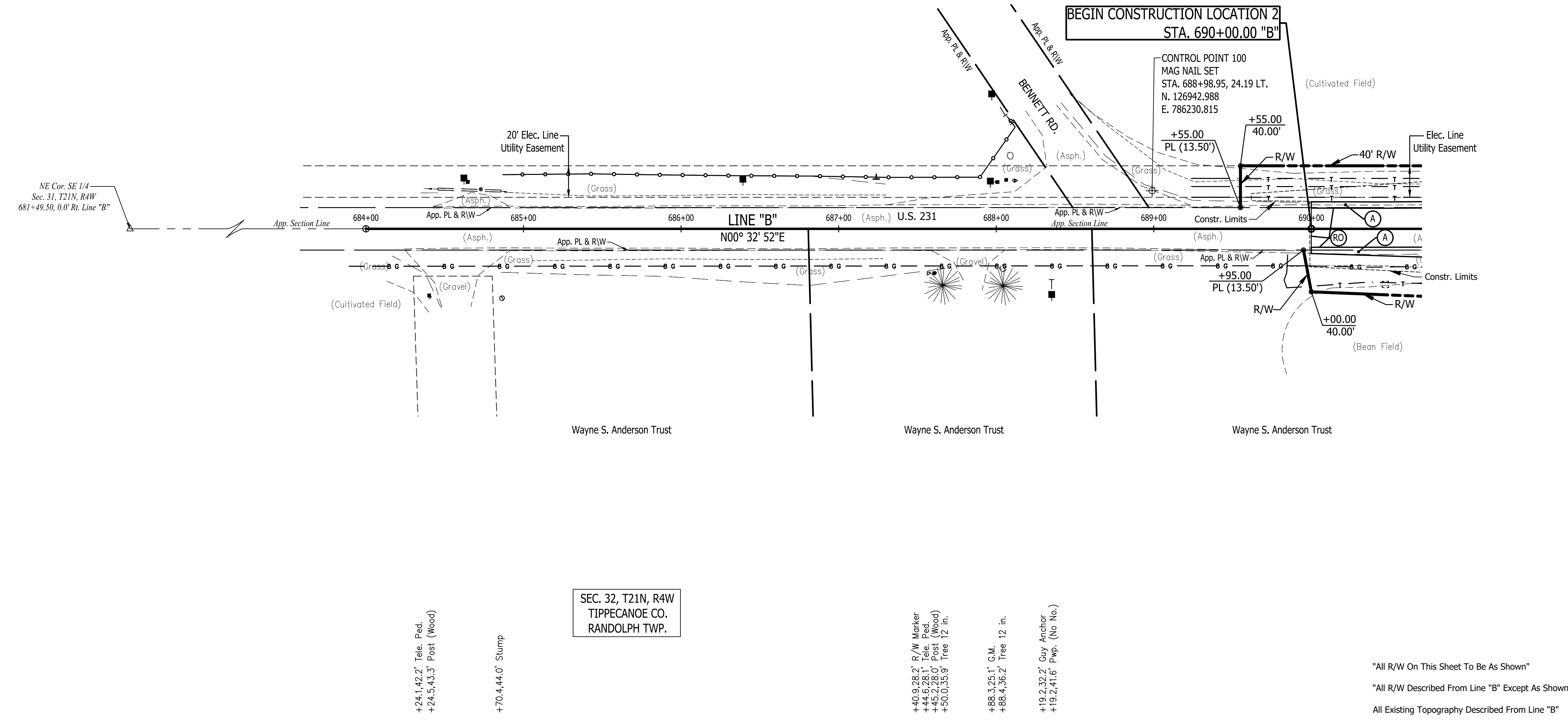
NE Cor. SE 1/4
Sec. 31, T21N, R4W
681+49.50, 0.0' Rt. Line "B"

BEGIN CONSTRUCTION LOCATION 2
STA. 690+00.00 "B"

CONTROL POINT 100
MAG NAIL SET
STA. 688+98.95, 24.19 LT.
N. 126942.988
E. 786230.815

LEGEND

- (A) Preliminary Pavement:
165#/Syd QC/QA-HMA 3, 64, Surface 9.5 mm on
275#/Syd QC/QA-HMA 3, 64, Intermediate 19.0 mm on
660#/Syd QC/QA-HMA 3, 64, Base, 19.0 mm (2 Lifts) on
Subgrade Treatment Type XX
- (A1) HMA for Approaches, Type C:
165#/Syd HMA Surface Type C on
275#/Syd HMA Intermediate Type C on
330#/Syd HMA Base Type C on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D1) HMA for Approaches, Type B:
165#/Syd HMA Surface Type B on
275#/Syd HMA Intermediate Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D2) HMA for Approaches, Type B:
165#/Syd HMA Surface, Type B on
275#/Syd HMA Intermediate, Type B on
660#/Syd HMA Base, Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II on
Geogrid, Type 1B
- (D3) 12" Compacted Aggregate No. 53
- (O) Variable Depth Compacted Aggregate, No. 53
- (R) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (RO) Resurfacing to be Done By Others
Under INDOT Des. No. 2000867
2" Asphalt Milling With
220#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (R1) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on
Variable QC/QA-HMA, 3, 64, Intermediate, 19.0 mm
(275#/Syd. Minimum, 385#/Syd. Maximum -
Increase Milling Depth as Needed to Insure
Proper Minimum HMA Thickness)
- (T) Asphalt Material for Tack Coat
- (26) Sodding (Nursery) W/Topsoil
(4" As Req'd. Under Sodding)
- (27) Seed Mixture, R



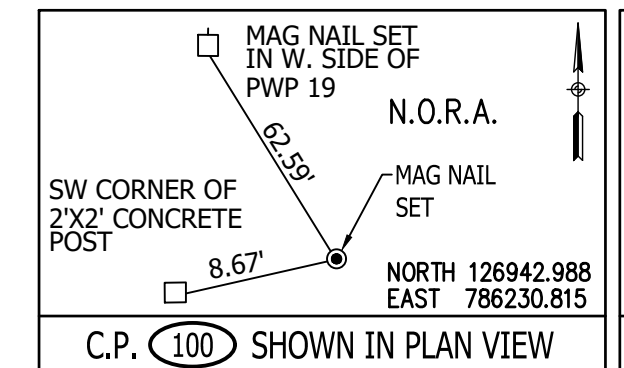
"All R/W On This Sheet To Be As Shown"
"All R/W Described From Line "B" Except As Shown"
All Existing Topography Described From Line "B"
TBM #1 - BENCH TIE SET IN EAST SIDE PWP
STA 690+98.53 "B" 28.11 FEET LEFT. ELEV. 758.59

Stage 2 Plans

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

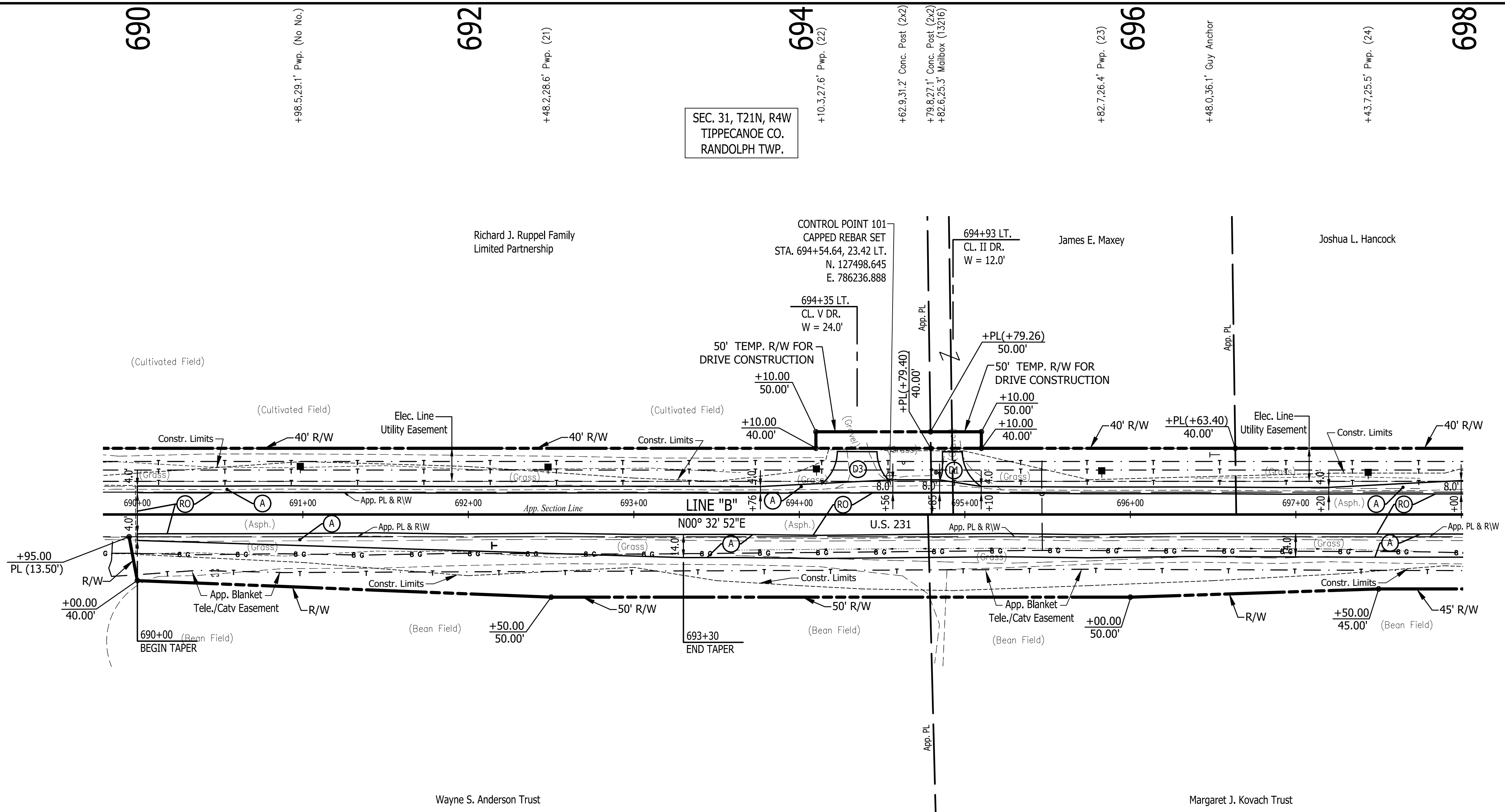
INDIANA
DEPARTMENT OF TRANSPORTATION
U.S. 231- LINE "B"
PLAN AND PROFILE SHEET

HORIZONTAL SCALE 1" = 40'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 10'	DESIGNATION 1700190
SURVEY BOOK N/A	SHEETS 32 of 161
CONTRACT R-41623	PROJECT 1700190



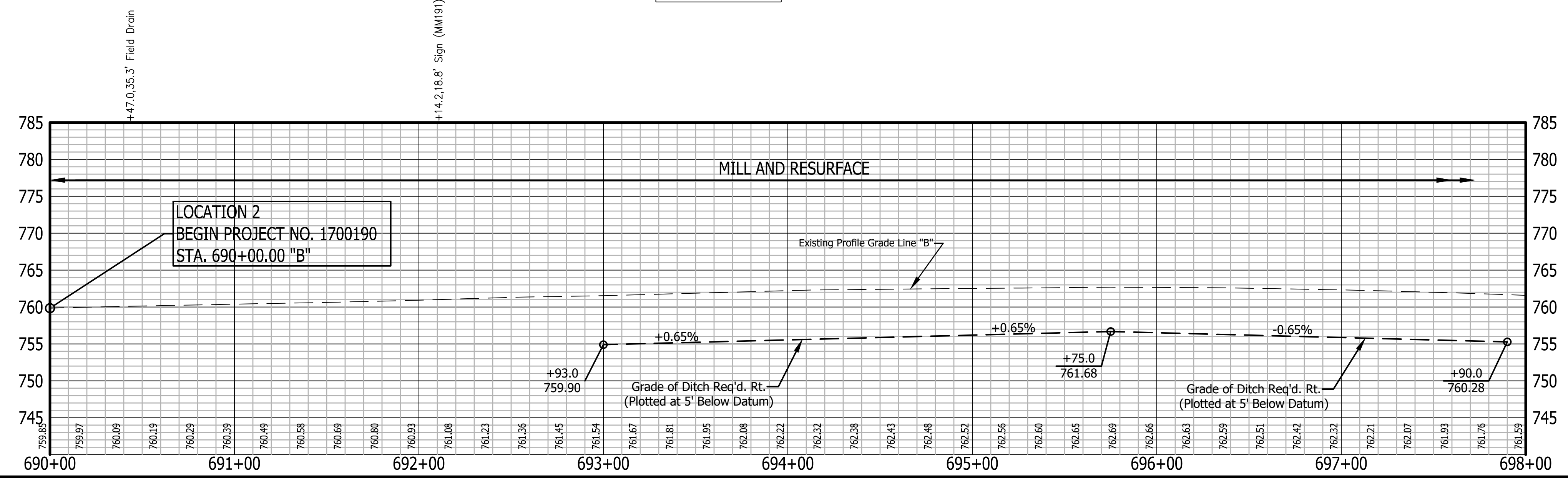
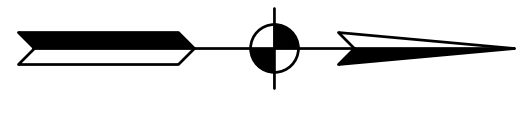
LEGEND

- (A) Preliminary Pavement:
165#/Syd QC/QA-HMA 3, 64, Surface 9.5 mm on
275#/Syd QC/QA-HMA 3, 64, Intermediate 19.0 mm on
660#/Syd QC/QA-HMA 3, 64, Base, 19.0 mm (2 Lifts) on
Subgrade Treatment Type XX
- (A1) HMA for Approaches, Type C:
165#/Syd HMA Surface Type C on
275#/Syd HMA Intermediate Type C on
330#/Syd HMA Base Type C on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D1) HMA for Approaches, Type B:
165#/Syd HMA Surface Type B on
275#/Syd HMA Intermediate Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D2) HMA for Approaches, Type B:
165#/Syd HMA Surface, Type B on
275#/Syd HMA Intermediate, Type B on
660#/Syd HMA Base, Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II on
Geogrid, Type 1B
- (D3) 12" Compacted Aggregate No. 53
- (O) Variable Depth Compacted Aggregate, No. 53
- (R) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (RO) Resurfacing to be Done By Others
Under INDOT Des. No. 2000867
2" Asphalt Milling With
220#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (R1) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on
Variable QC/QA-HMA, 3, 64, Intermediate, 19.0 mm
(275#/Syd. Minimum, 385#/Syd. Maximum -
Increase Milling Depth as Needed to Insure
Proper Minimum HMA Thickness)
- (T) Asphalt Material for Tack Coat
- (26) Sodding (Nursery) W/Topsoil
(4" As Req'd. Under Sodding)
- (27) Seed Mixture, R

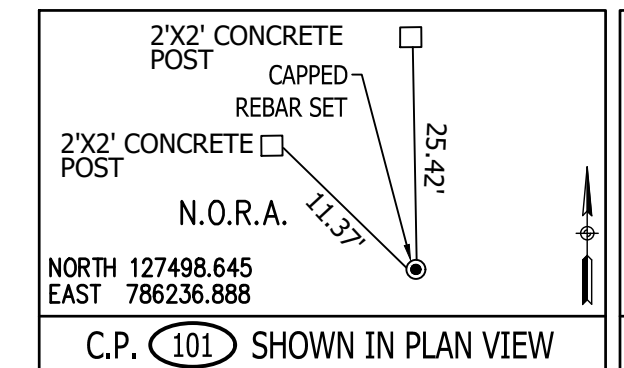


SEC. 31, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

SEC. 32, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.



"All R/W On This Sheet To Be As Shown"
"All R/W Described From Line "B" Except As Shown"
All Existing Topography Described From Line "B"
TBM #1 - BENCH TIE SET IN EAST SIDE PWP
STA 690+98.53 "B" 28.11 FEET LEFT. ELEV. 758.59

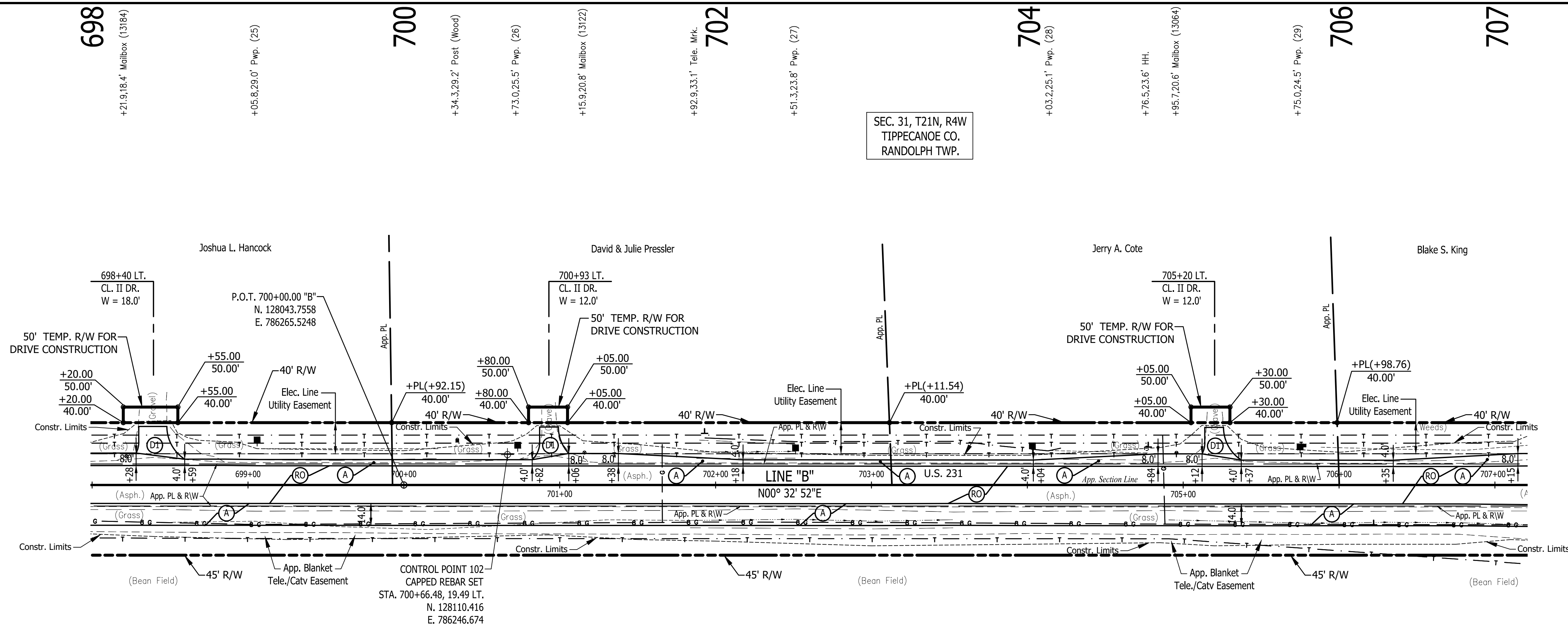


Stage 2 Plans

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

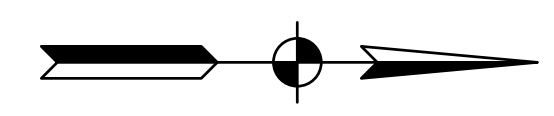
INDIANA
DEPARTMENT OF TRANSPORTATION
U.S. 231- LINE "B"
PLAN AND PROFILE SHEET

HORIZONTAL SCALE 1" = 40'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 10'	DESIGNATION 1700190
SURVEY BOOK N/A	SHEETS 33 of 161
CONTRACT R-41623	PROJECT 1700190



SEC. 31, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

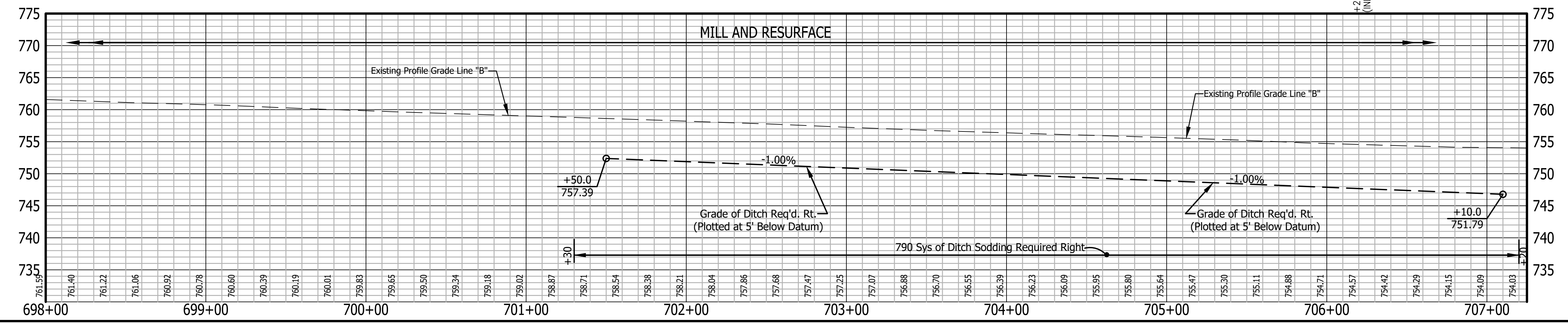
SEC. 32, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.



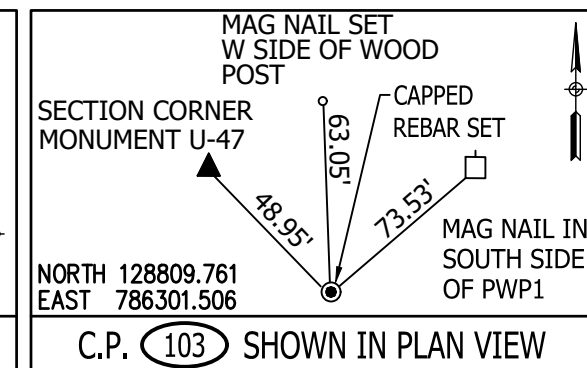
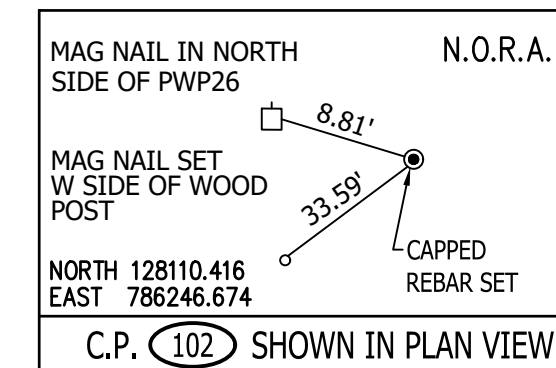
LEGEND

- (A) Preliminary Pavement:
165#/Syd QC/QA-HMA 3, 64, Surface 9.5 mm on
275#/Syd QC/QA-HMA 3, 64, Intermediate 19.0 mm on
660#/Syd QC/QA-HMA 3, 64, Base, 19.0 mm (2 Lifts) on
Subgrade Treatment Type XX
- (A1) HMA for Approaches, Type C:
165#/Syd HMA Surface Type C on
275#/Syd HMA Intermediate Type C on
330#/Syd HMA Base Type C on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D1) HMA for Approaches, Type B:
165#/Syd HMA Surface Type B on
275#/Syd HMA Intermediate Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D2) HMA for Approaches, Type B:
165#/Syd HMA Surface, Type B on
275#/Syd HMA Intermediate, Type B on
660#/Syd HMA Base, Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II on
Geogrid, Type 1B
- (D3) 12" Compacted Aggregate No. 53
- (O) Variable Depth Compacted Aggregate, No. 53
- (R) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (R0) Resurfacing to be Done By Others
Under INDOT Des. No. 2000867
2" Asphalt Milling With
220#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (R1) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on
Variable QC/QA-HMA, 3, 64, Intermediate, 19.0 mm
(275#/Syd. Minimum, 385#/Syd. Maximum -
Increase Milling Depth as Needed to Insure
Proper Minimum HMA Thickness)
- (T) Asphalt Material for Tack Coat
- (26) Sodding (Nursery) W/Topsoil
(4" As Req'd. Under Sodding)
- (27) Seed Mixture, R

"All R/W On This Sheet To Be As Shown"
"All R/W Described From Line "B" Except As Shown"
All Existing Topography Described From Line "B"



TBM #2 - BENCH TIE SET IN EAST SIDE PWP #29
STA 705+74.71 "B" 23.75 FEET LEFT. ELEV. 754.96



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

INDIANA
DEPARTMENT OF TRANSPORTATION

U.S. 231- LINE "B"
PLAN AND PROFILE SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1700190
SURVEY BOOK	SHEETS
N/A	34 of 161
CONTRACT	PROJECT
R-41623	1700190

Stage 2 Plans

707

708

710

712

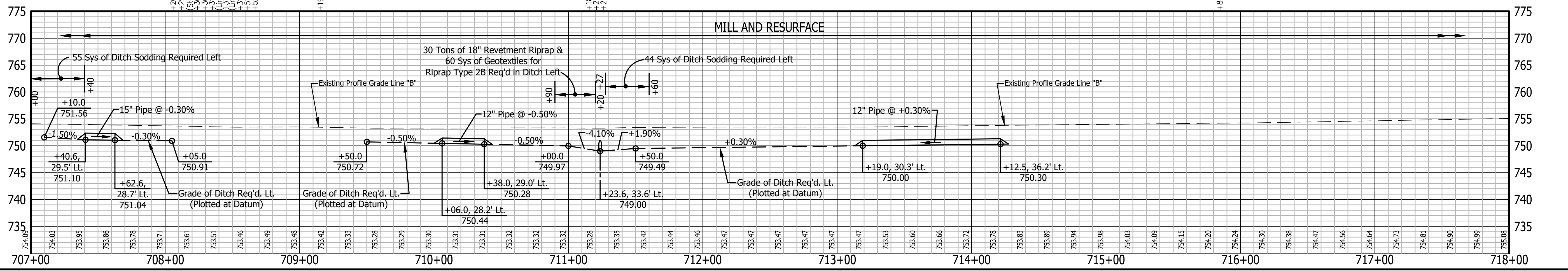
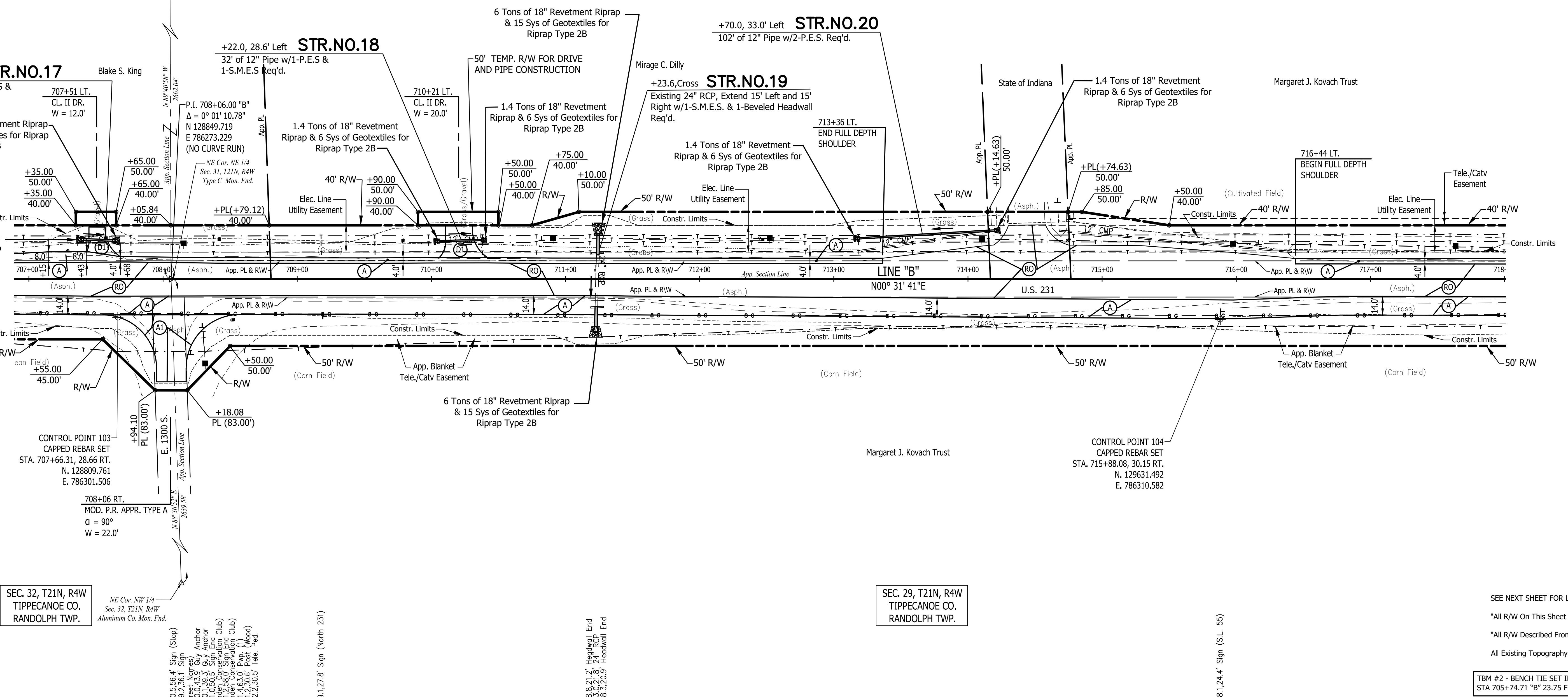
714

716

718

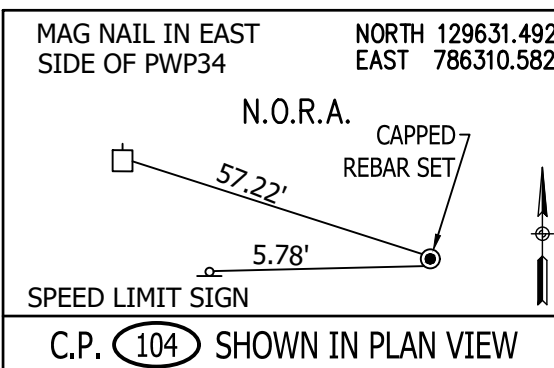
SEC. 31, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

SEC. 30, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.



SEE NEXT SHEET FOR LEGEND
 All R/W On This Sheet To Be As Shown
 All R/W Described From Line "B" Except As Shown
 All Existing Topography Described From Line "B"

TBM #2 - BENCH TIE SET IN EAST SIDE PWP #29
 STA 705+74.71 "B" 23.75 FEET LEFT. ELEV. 754.96



Stage 2 Plans

RECOMMENDED FOR APPROVAL
 DESIGN ENGINEER: _____ DATE: _____
 DESIGNED BY: B.M.S./C.E.S. DRAWN BY: B.M.S.
 CHECKED BY: B.M.S./C.E.S. CHECKED BY: J.L.B.

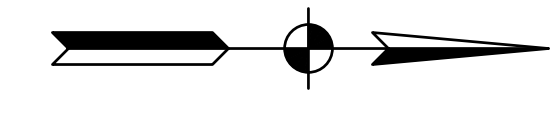
INDIANA DEPARTMENT OF TRANSPORTATION
 U.S. 231- LINE "B"
 PLAN AND PROFILE SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1700190
SURVEY BOOK	SHEETS
N/A	35 of 161
CONTRACT	PROJECT
R-41623	1700190

718 720 722 724 726 728

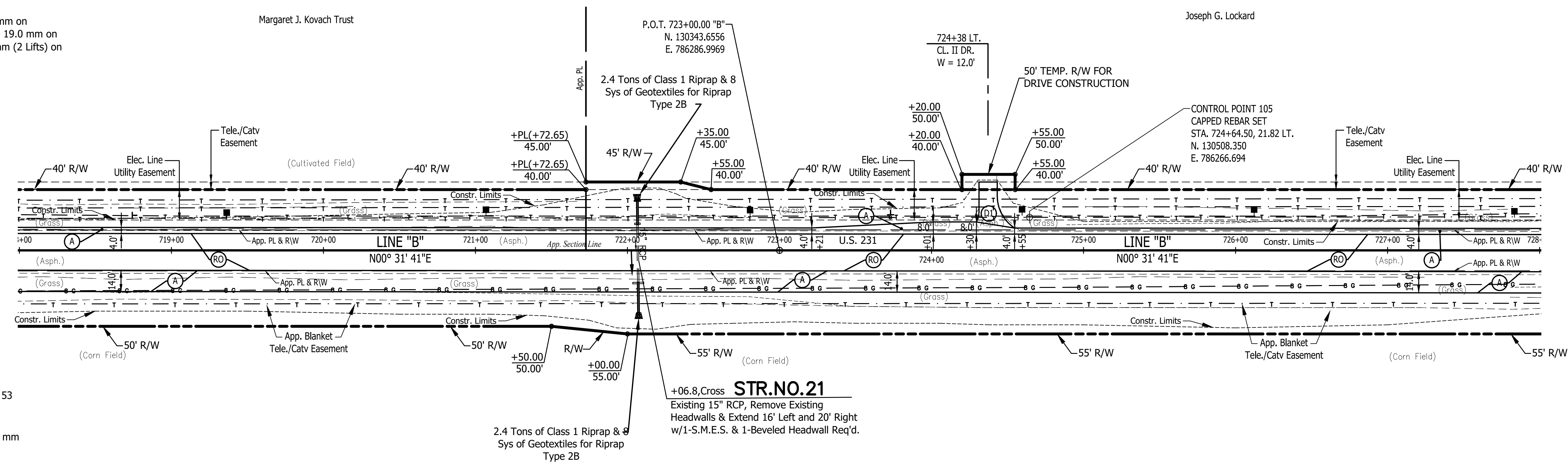
+74.2,23.1' Sign (No Passing Zone) (36)
 +36.3,24.8' Pwp. (36)
 +06.8,26.8' Pwp. (37)
 +04.7,17.4' Hgnwall End +88.4,17.5' Headwall End (38)
 +80.6,26.5' Pwp. (38)
 +72.9,21.6' Mchbox (12'700) +73.1,23.4' Tele. Mch. (39)
 +59.0,26.2' Tele. Ped. +59.5,27.0' Pwp. (39)
 +12.2,26.9' Pwp. (40)
 +83.4,25.7' Pwp. (41)

SEC. 30, T21N, R4W
 TIPPECANOE CO.
 RANDOLPH TWP.



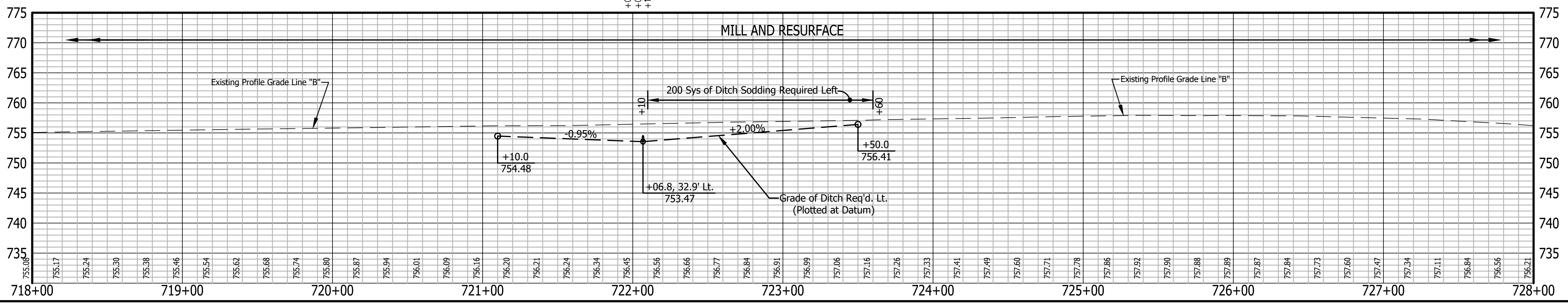
LEGEND

- (A) Preliminary Pavement:
 165#/Syd QC/QA-HMA 3, 64, Surface 9.5 mm on
 275#/Syd QC/QA-HMA 3, 64, Intermediate 19.0 mm on
 660#/Syd QC/QA-HMA 3, 64, Base, 19.0 mm (2 Lifts) on
 Subgrade Treatment Type XX
- (A1) HMA for Approaches, Type C:
 165#/Syd HMA Surface Type C on
 275#/Syd HMA Intermediate Type C on
 330#/Syd HMA Base Type C on
 6" Compacted Aggregate No. 53 on
 Subgrade Treatment Type II
- (D1) HMA for Approaches, Type B:
 165#/Syd HMA Surface Type B on
 275#/Syd HMA Intermediate Type B on
 6" Compacted Aggregate No. 53 on
 Subgrade Treatment Type II
- (D2) HMA for Approaches, Type B:
 165#/Syd HMA Surface, Type B on
 275#/Syd HMA Intermediate, Type B on
 660#/Syd HMA Base, Type B on
 6" Compacted Aggregate No. 53 on
 Subgrade Treatment Type II on
 Geogrid, Type 1B
- (D3) 12" Compacted Aggregate No. 53
- (O) Variable Depth Compacted Aggregate, No. 53
- (R) 1-1/2" Asphalt Milling With
 165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (RO) Resurfacing to be Done By Others
 Under INDOT Des. No. 2000867
 2" Asphalt Milling With
 220#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (R1) 1-1/2" Asphalt Milling With
 165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on
 Variable QC/QA-HMA, 3, 64, Intermediate, 19.0 mm
 (275#/Syd. Minimum, 385#/Syd. Maximum -
 Increase Milling Depth as Needed to Insure
 Proper Minimum HMA Thickness)
- (T) Asphalt Material for Tack Coat
- (26) Sodding (Nursery) W/Topsoil
 (4" As Req'd. Under Sodding)
- (27) Seed Mixture, R

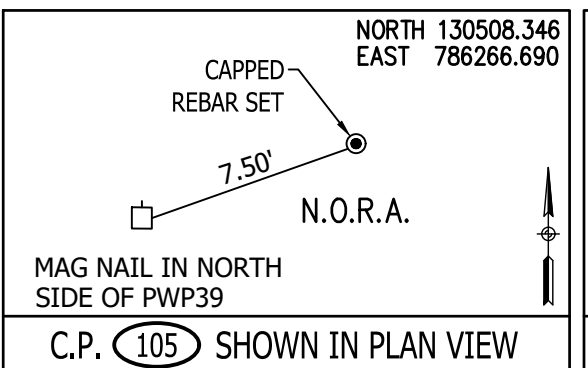


SEC. 29, T21N, R4W
 TIPPECANOE CO.
 RANDOLPH TWP.

"All R/W On This Sheet To Be As Shown"
 "All R/W Described From Line "B" Except As Shown"
 All Existing Topography Described From Line "B"



TBM #3 - BENCH TIE SET IN EAST SIDE PWP #43
 STA 719+36.28 "B" 24.21 FEET LEFT. ELEV. 750.31



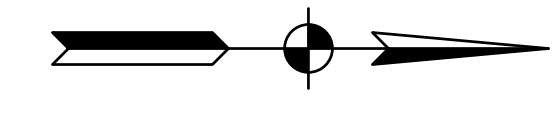
Stage 2 Plans

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

INDIANA
 DEPARTMENT OF TRANSPORTATION
 U.S. 231- LINE "B"
 PLAN AND PROFILE SHEET

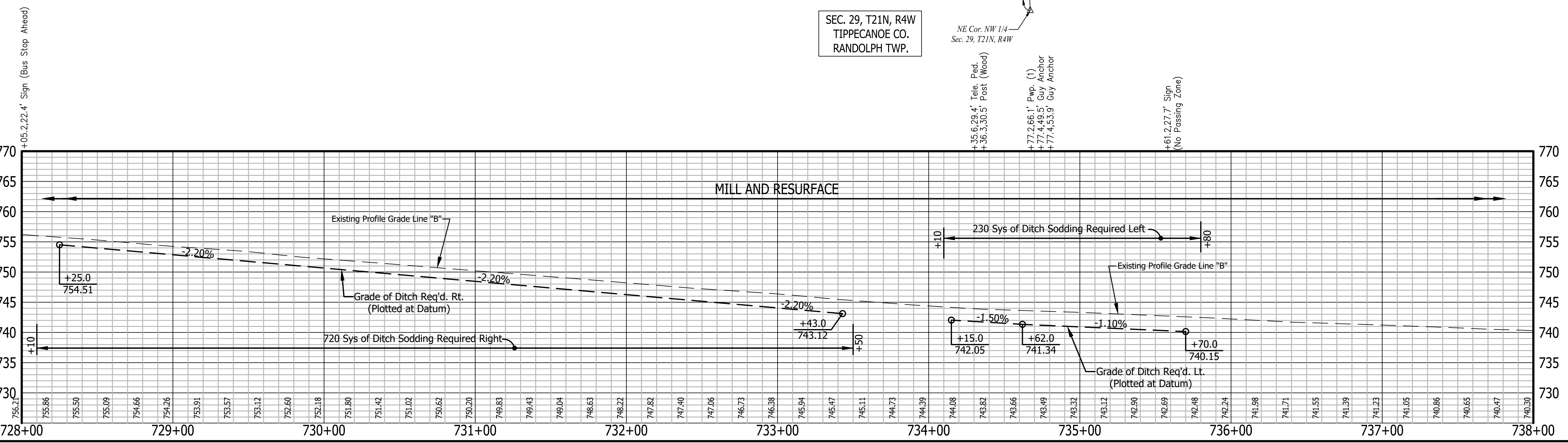
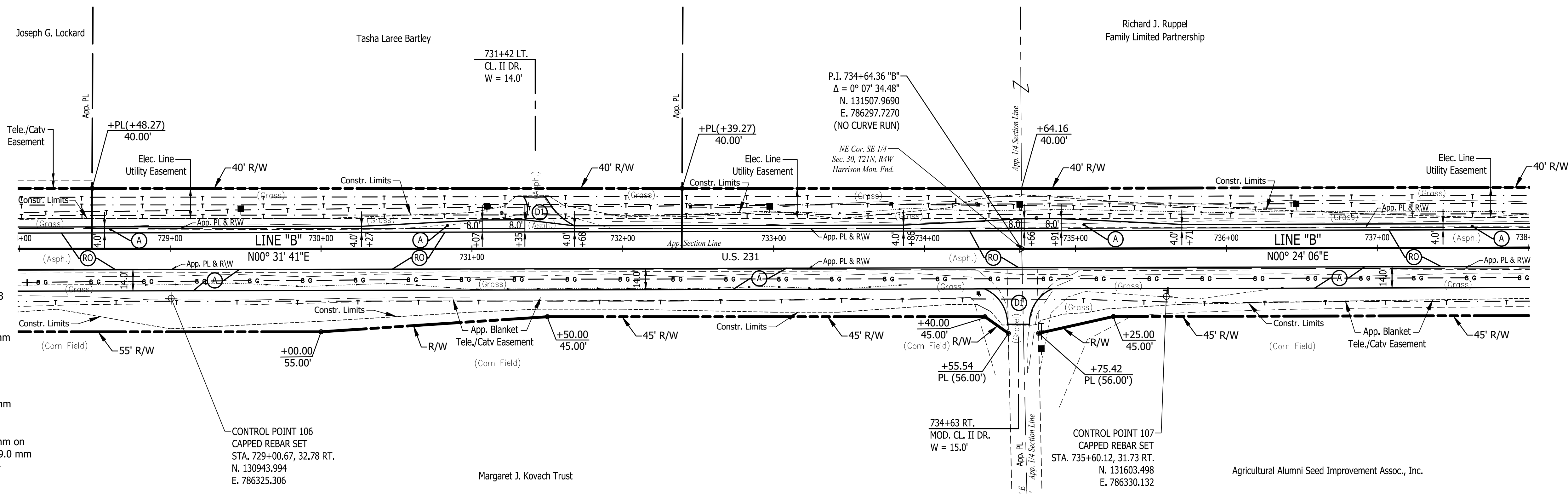
HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1700190
SURVEY BOOK	SHEETS
N/A	36 of 161
CONTRACT	PROJECT
R-41623	1700190

728 730 732 734 736 738



LEGEND

- (A) Preliminary Pavement:
165#/Syd QC/QA-HMA 3, 64, Surface 9.5 mm on
275#/Syd QC/QA-HMA 3, 64, Intermediate 19.0 mm on
660#/Syd QC/QA-HMA 3, 64, Base, 19.0 mm (2 Lifts) on
Subgrade Treatment Type XX
- (A1) HMA for Approaches, Type C:
165#/Syd HMA Surface Type C on
275#/Syd HMA Intermediate Type C on
330#/Syd HMA Base Type C on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D1) HMA for Approaches, Type B:
165#/Syd HMA Surface Type B on
275#/Syd HMA Intermediate Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D2) HMA for Approaches, Type B:
165#/Syd HMA Surface, Type B on
275#/Syd HMA Intermediate, Type B on
660#/Syd HMA Base, Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II on
Geogrid, Type 1B
- (D3) 12" Compacted Aggregate No. 53
- (O) Variable Depth Compacted Aggregate, No. 53
- (R) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (RO) Resurfacing to be Done By Others
Under INDOT Des. No. 2000867
2" Asphalt Milling With
220#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (R1) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on
Variable QC/QA-HMA, 3, 64, Intermediate, 19.0 mm
(275#/Syd. Minimum, 385#/Syd. Maximum -
Increase Milling Depth as Needed to Insure
Proper Minimum HMA Thickness)
- (T) Asphalt Material for Tack Coat
- (26) Sodding (Nursery) W/Topsoil
(4" As Req'd. Under Sodding)
- (27) Seed Mixture, R



"All R/W On This Sheet To Be As Shown"
"All R/W Described From Line "B" Except As Shown"
All Existing Topography Described From Line "B"
TBM #4 - BENCH TIE SET IN EAST SIDE PWP #48
STA 731+09.68 "B" 27.35 FEET LEFT. ELEV. 740.07

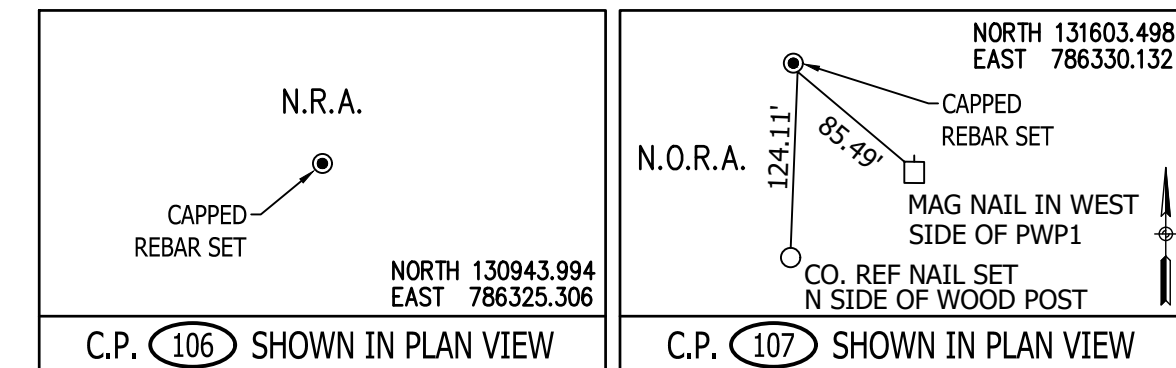
Stage 2 Plans

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

INDIANA DEPARTMENT OF TRANSPORTATION

U.S. 231- LINE "B" PLAN AND PROFILE SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1700190
SURVEY BOOK	SHEETS
N/A	37 of 161
CONTRACT	PROJECT
R-41623	1700190



738

+23.7,28.7' Pwp. (47)

740

+06.0,28.2' Pwp. (48)

742

+831,28.3' Pwp. (49)

744

+58.3,28.4' Pwp. (50)

746

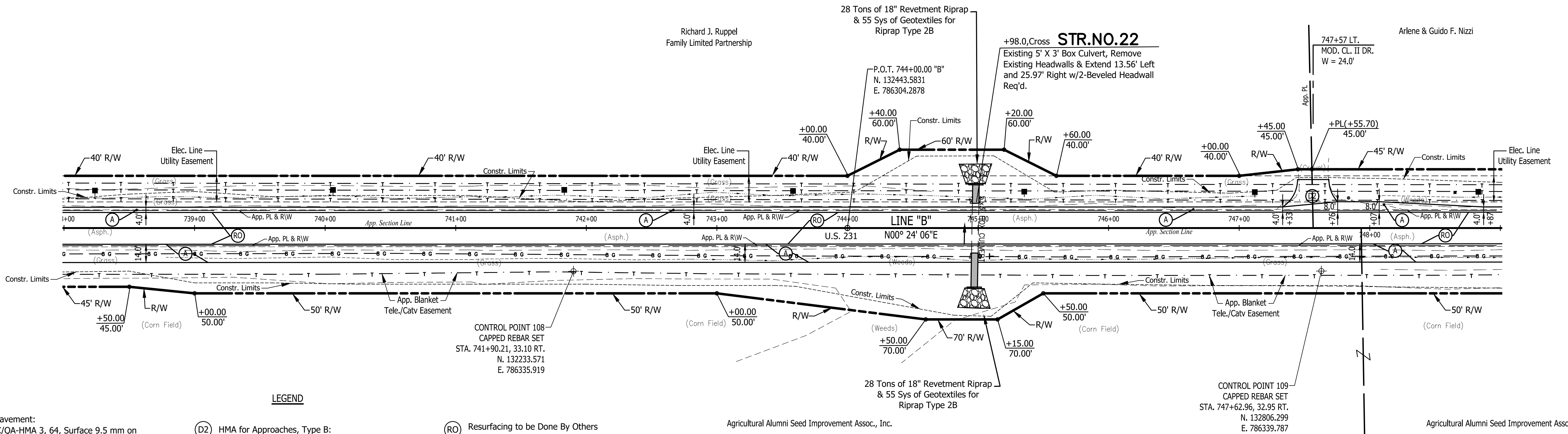
+35.4,27.9' Pwp. (51)

748

+83.8,23.1' Mchbox (12228)

+65.3,27.3' Tele. Ped.
+83.1,27.8' Pwp. (53)

SEC. 30, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.



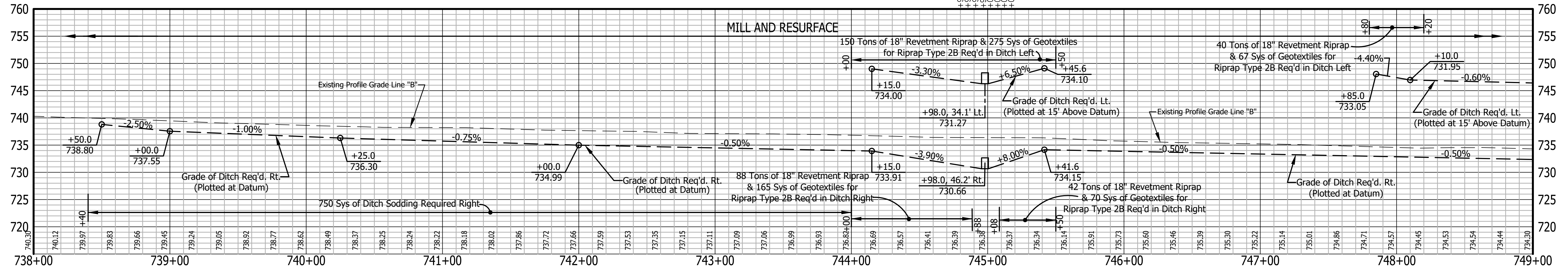
LEGEND

- (A) Preliminary Pavement: 165#/Syd QC/QA-HMA 3, 64, Surface 9.5 mm on 275#/Syd QC/QA-HMA 3, 64, Intermediate 19.0 mm on 660#/Syd QC/QA-HMA 3, 64, Base, 19.0 mm (2 Lifts) on Subgrade Treatment Type XX
- (A1) HMA for Approaches, Type C: 165#/Syd HMA Surface Type C on 275#/Syd HMA Intermediate Type C on 330#/Syd HMA Base Type C on 6" Compacted Aggregate No. 53 on Subgrade Treatment Type II
- (D1) HMA for Approaches, Type B: 165#/Syd HMA Surface Type B on 275#/Syd HMA Intermediate Type B on 6" Compacted Aggregate No. 53 on Subgrade Treatment Type II
- (D2) HMA for Approaches, Type B: 165#/Syd HMA Surface, Type B on 275#/Syd HMA Intermediate, Type B on 660#/Syd HMA Base, Type B on 6" Compacted Aggregate No. 53 on Subgrade Treatment Type II on Geogrid, Type 1B
- (D3) 12" Compacted Aggregate No. 53
- (O) Variable Depth Compacted Aggregate, No. 53
- (R) 1-1/2" Asphalt Milling With 165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (RO) Resurfacing to be Done By Others Under INDOT Des. No. 2000867 2" Asphalt Milling With 220#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (R1) 1-1/2" Asphalt Milling With 165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on Variable QC/QA-HMA, 3, 64, Intermediate, 19.0 mm (275#/Syd. Minimum, 385#/Syd. Maximum - Increase Milling Depth as Needed to Insure Proper Minimum HMA Thickness)
- (T) Asphalt Material for Tack Coat
- (26) Sodding (Nursery) W/Topsoil (4" As Req'd. Under Sodding)
- (27) Seed Mixture, R

SEC. 29, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

"All R/W On This Sheet To Be As Shown"
"All R/W Described From Line "B" Except As Shown"
All Existing Topography Described From Line "B"

TBM #5 - BENCH TIE SET IN PWP #56
STA 740+05.58 "B" 28.96 FEET LEFT. ELEV. 732.70



N.R.A. CAPPED REBAR SET NORTH 132233.571 EAST 786335.919 C.P. 108 SHOWN IN PLAN VIEW	N.R.A. CAPPED REBAR SET NORTH 132806.299 EAST 786339.787 C.P. 109 SHOWN IN PLAN VIEW
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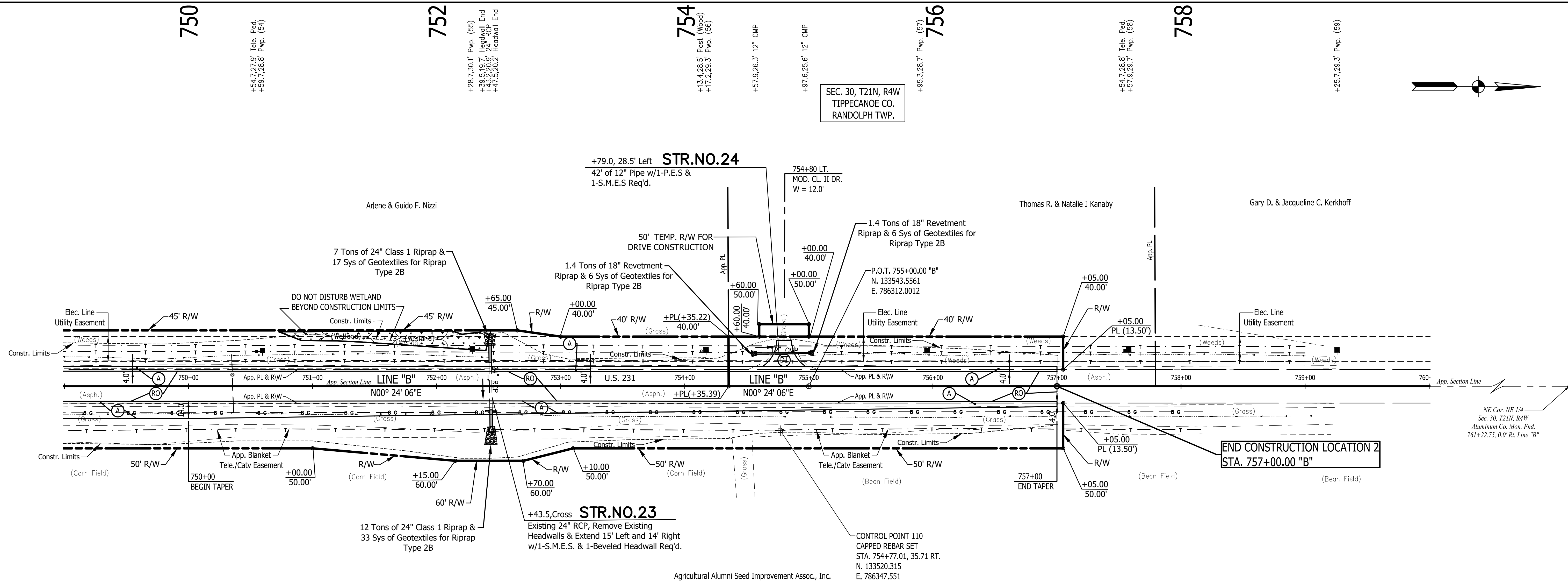
Stage 2 Plans

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

INDIANA
DEPARTMENT OF TRANSPORTATION

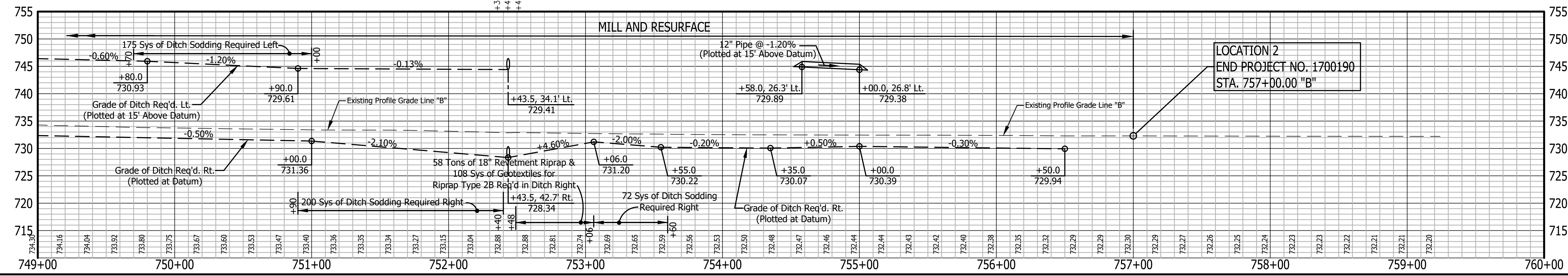
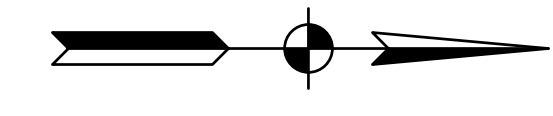
U.S. 231- LINE "B"
PLAN AND PROFILE SHEET

HORIZONTAL SCALE 1" = 40'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 10'	DESIGNATION 1700190
SURVEY BOOK N/A	SHEETS 38 of 161
CONTRACT R-41623	PROJECT 1700190



SEC. 30, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

SEC. 29, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.



"All R/W On This Sheet To Be As Shown"
 "All R/W Described From Line "B" Except As Shown"
 All Existing Topography Described From Line "B"
 TBM #5 - BENCH TIE SET IN PWP #56
 STA 740+05.58 "B" 28.96 FEET LEFT. ELEV. 732.70

N.R.A.
 CAPPED REBAR SET
 NORTH 133520.315
 EAST 786347.551
 C.P. (110) SHOWN IN PLAN VIEW

Stage 2 Plans

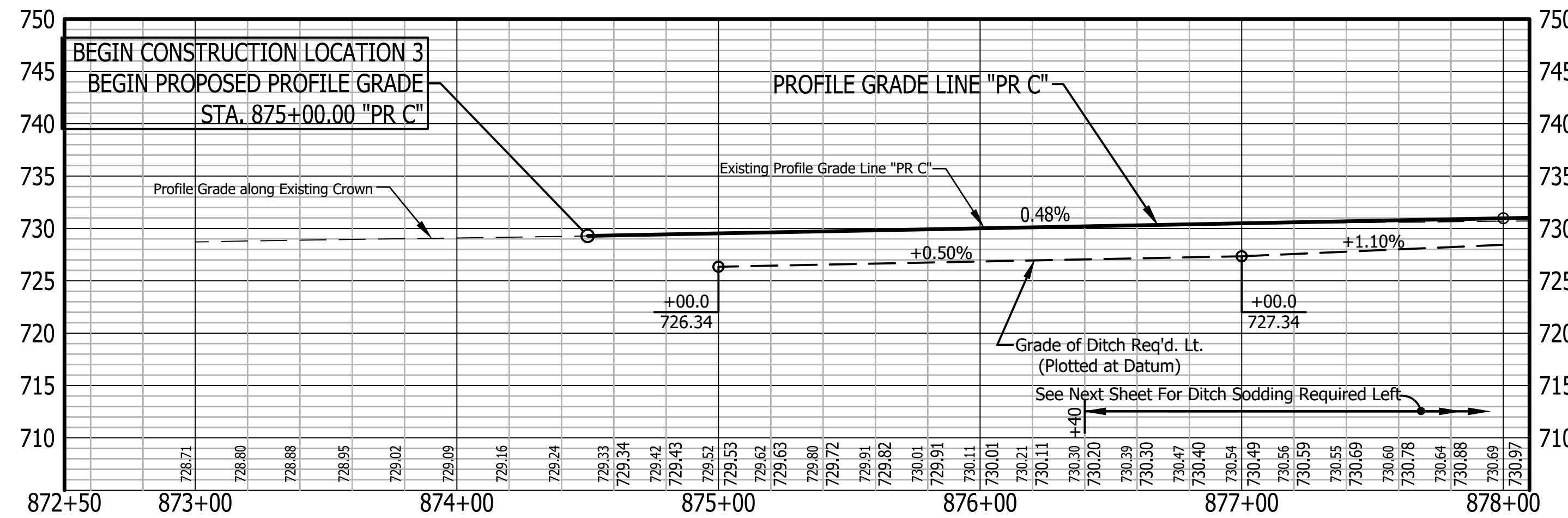
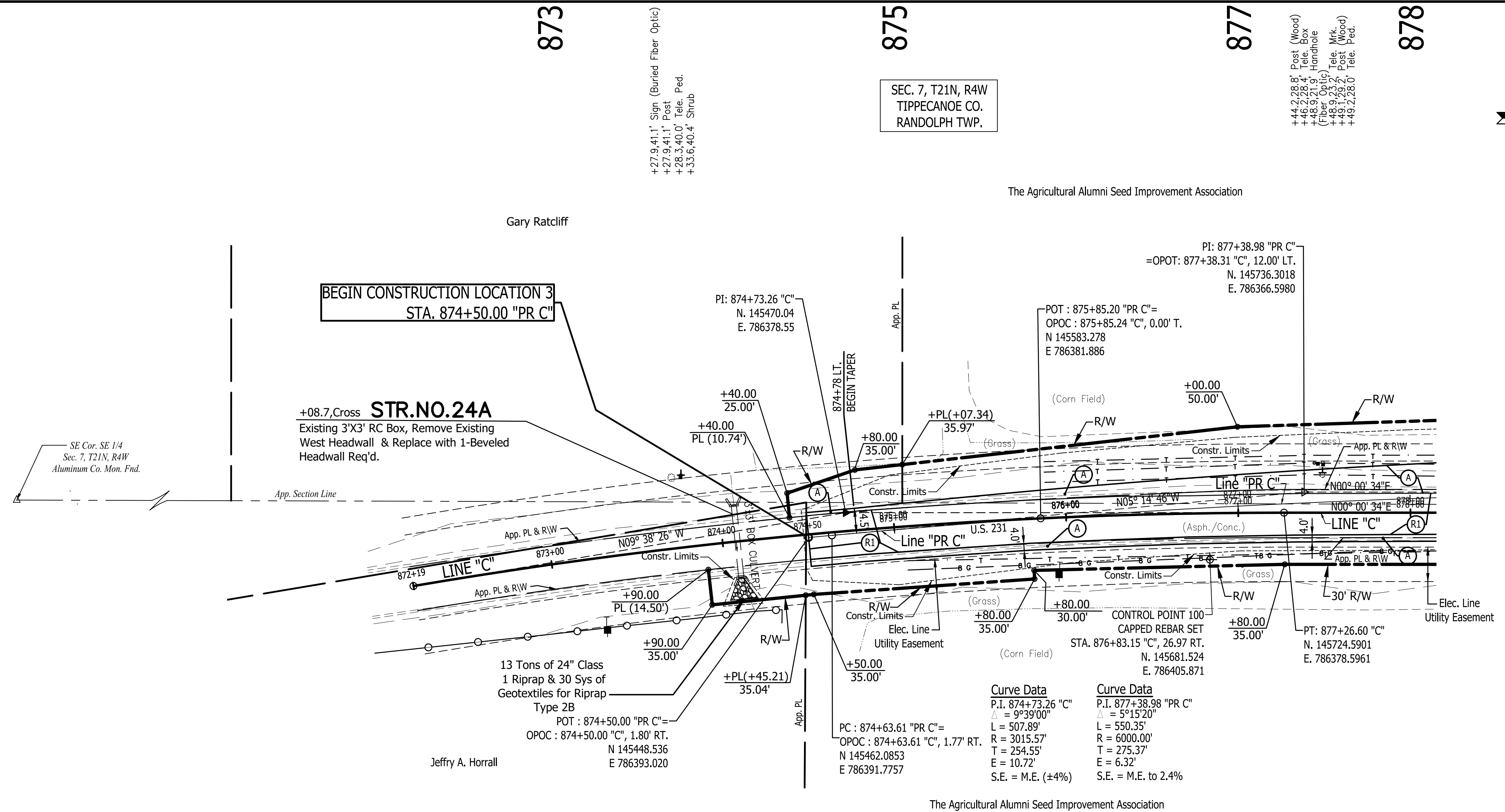
RECOMMENDED FOR APPROVAL
 DESIGN ENGINEER DATE
 DESIGNED: B.M.S./C.E.S DRAWN: B.M.S.
 CHECKED: B.M.S./C.E.S CHECKED: J.L.B.

INDIANA
 DEPARTMENT OF TRANSPORTATION
 U.S. 231- LINE "B"
 PLAN AND PROFILE SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1700190
SURVEY BOOK	SHEETS
N/A	39 of 161
CONTRACT	PROJECT
R-41623	1700190

LEGEND

- (A) Preliminary Pavement:
165#/Syd QC/QA-HMA 3, 64, Surface 9.5 mm on
275#/Syd QC/QA-HMA 3, 64, Intermediate 19.0 mm on
660#/Syd QC/QA-HMA 3, 64, Base, 19.0 mm (2 Lifts) on
Subgrade Treatment Type XX
- (A1) HMA for Approaches, Type C:
165#/Syd HMA Surface Type C on
275#/Syd HMA Intermediate Type C on
330#/Syd HMA Base Type C on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D1) HMA for Approaches, Type B:
165#/Syd HMA Surface Type B on
275#/Syd HMA Intermediate Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D2) HMA for Approaches, Type B:
165#/Syd HMA Surface, Type B on
275#/Syd HMA Intermediate, Type B on
660#/Syd HMA Base, Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II on
Geogrid, Type IB
- (D3) 12" Compacted Aggregate No. 53
- (O) Variable Depth Compacted Aggregate, No. 53
- (R) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (RO) Resurfacing to be Done By Others
Under INDOT Des. No. 2000867
2" Asphalt Milling With
220#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (R1) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on
Variable QC/QA-HMA, 3, 64, Intermediate, 19.0 mm
(275#/Syd. Minimum, 385#/Syd. Maximum -
Increase Milling Depth as Needed to Insure
Proper Minimum HMA Thickness)
- (T) Asphalt Material for Tack Coat
- (26) Sodding (Nursery) W/Topsoil
(4" As Req'd. Under Sodding)
- (27) Seed Mixture, R



Line "PR C" To Be Constructed"
"All R/W On This Sheet To Be As Shown"
"All R/W Described From Line "C" Except As Shown"
All Existing Topography Described From Line "C"

TBM #1 - BENCH TIE SET IN WEST SIDE PWP #33
STA 881+11.50 "C" 34.21 FEET RIGHT. ELEV. 733.94

Stage 2 Plans

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

INDIANA
DEPARTMENT OF TRANSPORTATION

U.S. 231- LINE "C"
PLAN AND PROFILE SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1700190
SURVEY BOOK	SHEETS
N/A	40 of 161
CONTRACT	PROJECT
R-41623	1700190

N.R.A.

CAPPED REBAR SET

NORTH 145681.524
EAST 786405.871

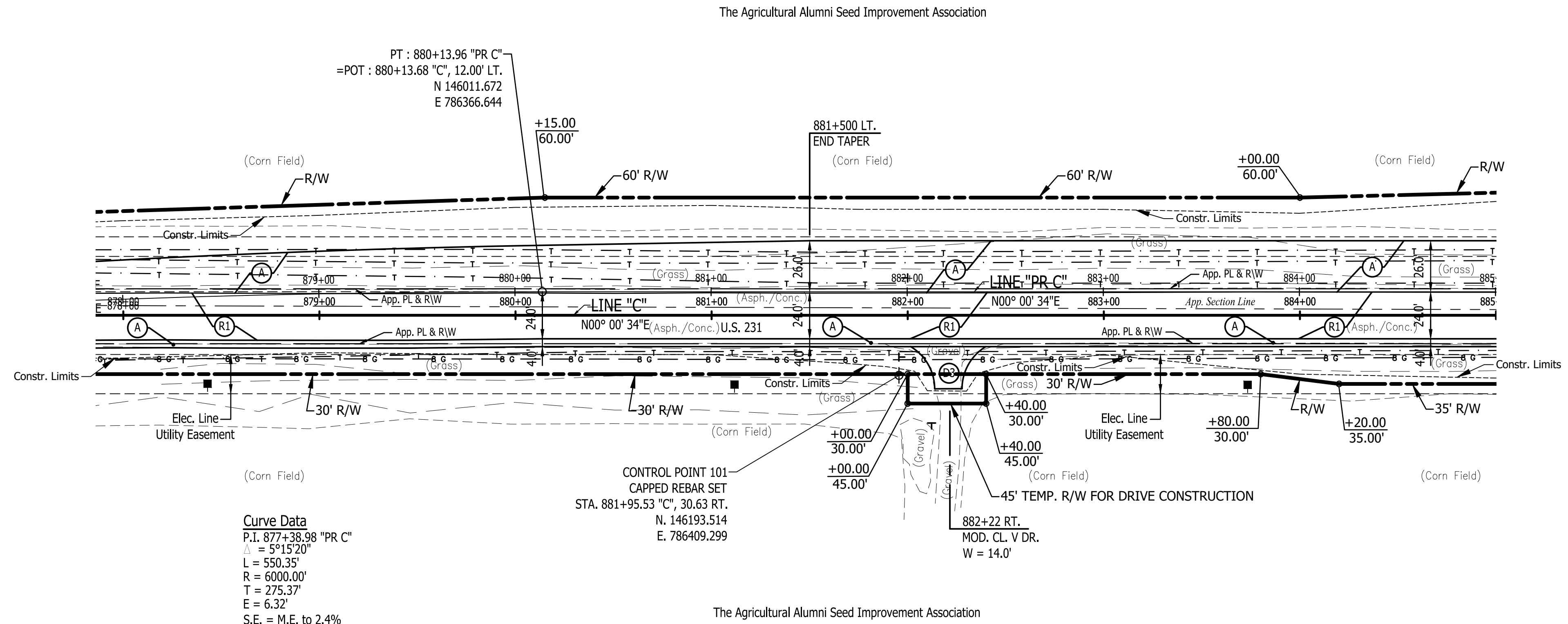
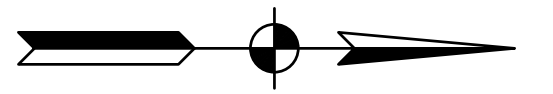
C.P. 100 SHOWN IN PLAN VIEW

LEGEND

- (A) Preliminary Pavement:
165#/Syd QC/QA-HMA 3, 64, Surface 9.5 mm on
275#/Syd QC/QA-HMA 3, 64, Intermediate 19.0 mm on
660#/Syd QC/QA-HMA 3, 64, Base, 19.0 mm (2 Lifts) on
Subgrade Treatment Type XX
- (A1) HMA for Approaches, Type C:
165#/Syd HMA Surface Type C on
275#/Syd HMA Intermediate Type C on
330#/Syd HMA Base Type C on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D1) HMA for Approaches, Type B:
165#/Syd HMA Surface Type B on
275#/Syd HMA Intermediate Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D2) HMA for Approaches, Type B:
165#/Syd HMA Surface, Type B on
275#/Syd HMA Intermediate, Type B on
660#/Syd HMA Base, Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II on
Geogrid, Type 1B
- (D3) 12" Compacted Aggregate No. 53
- (O) Variable Depth Compacted Aggregate, No. 53
- (R) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (RO) Resurfacing to be Done By Others
Under INDOT Des. No. 2000867
2" Asphalt Milling With
220#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (R1) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on
Variable QC/QA-HMA, 3, 64, Intermediate, 19.0 mm
(275#/Syd. Minimum, 385#/Syd. Maximum -
Increase Milling Depth as Needed to Insure
Proper Minimum HMA Thickness)
- (T) Asphalt Material for Tack Coat
- (26) Sodding (Nursery) W/Topsail
(4" As Req'd. Under Sodding)
- (27) Seed Mixture, R

SEC. 7, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

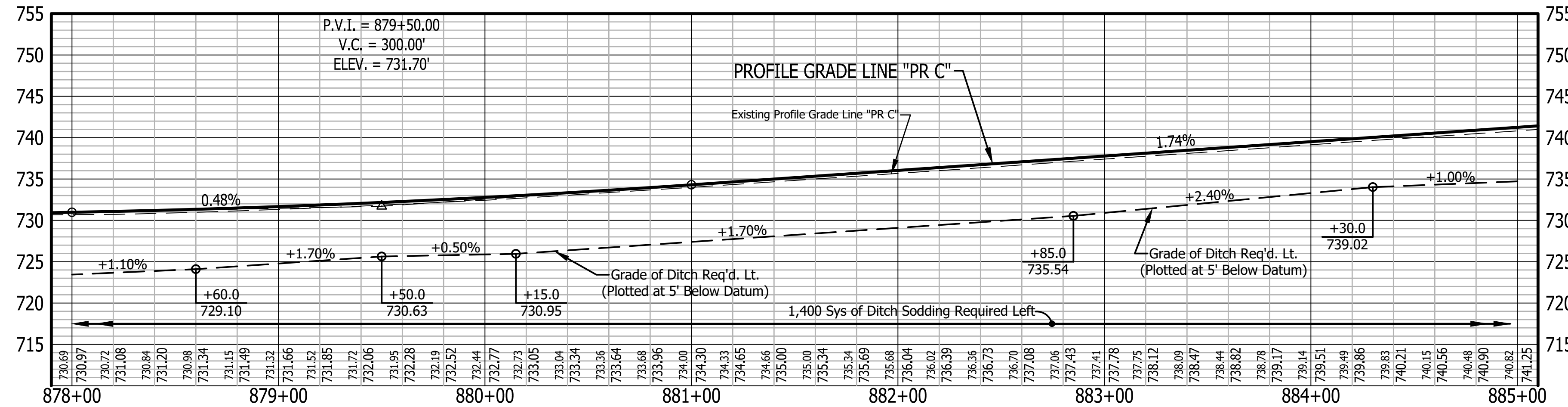
+00.01, 19.1' Sign
(Do Not Pass)



Curve Data
P.I. 877+38.98 "PR C"
L = 531.52'
R = 6000.00'
T = 275.37'
E = 6.32'
S.E. = M.E. to 2.4%

SEC. 8, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

Line "PR C" To Be Constructed
"All R/W On This Sheet To Be As Shown"
"All R/W Described From Line "C" Except As Shown"
All Existing Topography Described From Line "C"



TBM #1 - BENCH TIE SET IN WEST SIDE PWP #33
STA 881+11.50 "C" 34.21 FEET RIGHT. ELEV. 733.94

N.R.A.
CAPPED REBAR SET
NORTH 146193.514
EAST 786409.299
C.P. (101) SHOWN IN PLAN VIEW

Stage 2 Plans

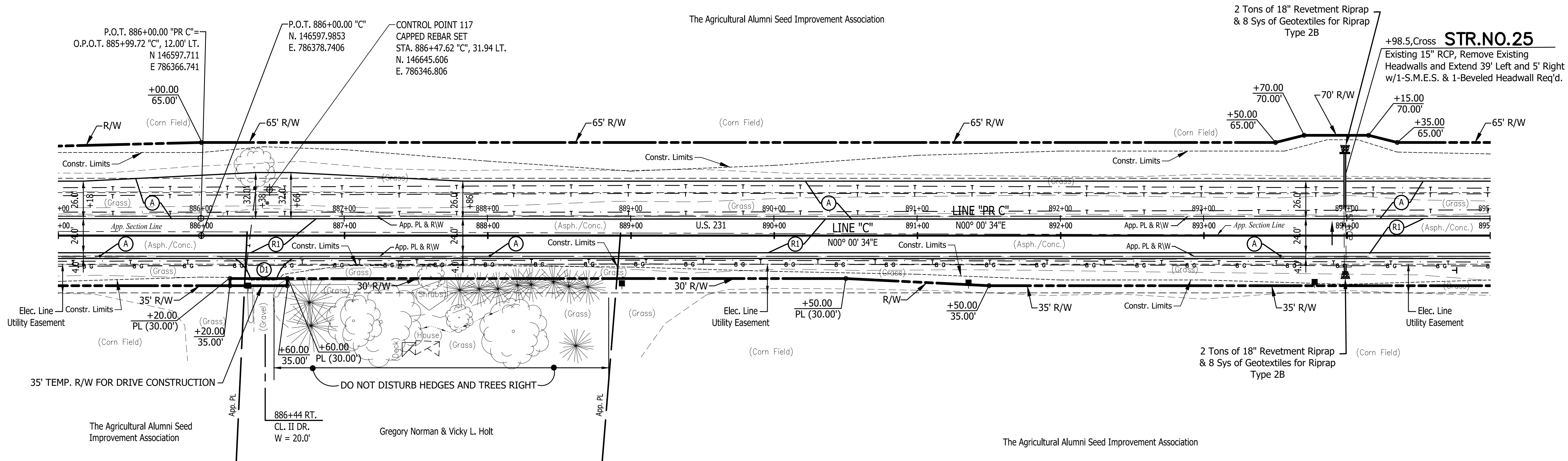
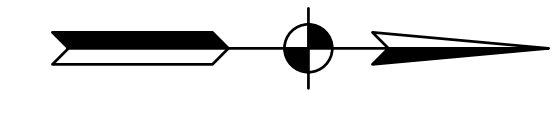
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: B.M.S./C.E.S	DRAWN: B.M.S.	
CHECKED: B.M.S./C.E.S	CHECKED: J.L.B.	

INDIANA
DEPARTMENT OF TRANSPORTATION
U.S. 231- LINE "C"
PLAN AND PROFILE SHEET

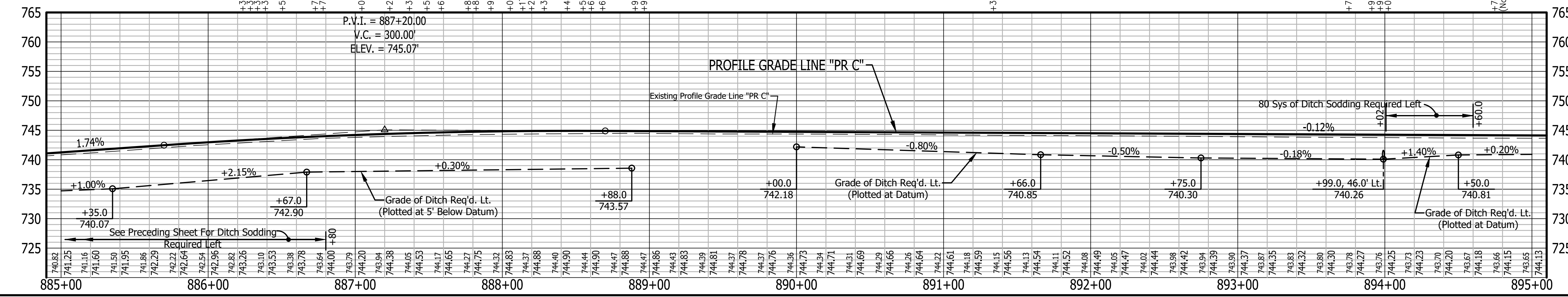
HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1700190
SURVEY BOOK	SHEETS
N/A	41 of 161
CONTRACT	PROJECT
R-41623	1700190

885 887 888 891 893 895

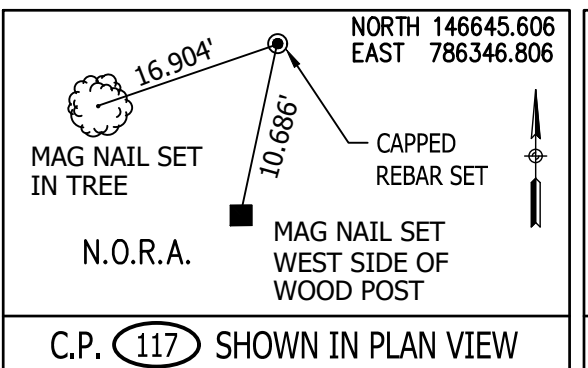
SEC. 7, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.



SEC. 8, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.



Line "PR C" To Be Constructed
 "All R/W On This Sheet To Be As Shown"
 "All R/W Described From Line "C" Except As Shown"
 All Existing Topography Described From Line "C"
 TBM #2 - BENCH TIE SET IN WEST SIDE PWP #38
 STA 893+77.32 "C" 31.75 FEET RIGHT. ELEV. 741.93



Stage 2 Plans

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

INDIANA
DEPARTMENT OF TRANSPORTATION

U.S. 231- LINE "C"
PLAN AND PROFILE SHEET

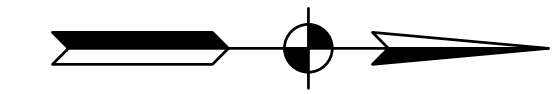
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1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1700190
SURVEY BOOK	SHEETS
N/A	42 of 161
CONTRACT	PROJECT
R-41623	1700190

895 897 899 901 903 905

SEC. 7, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

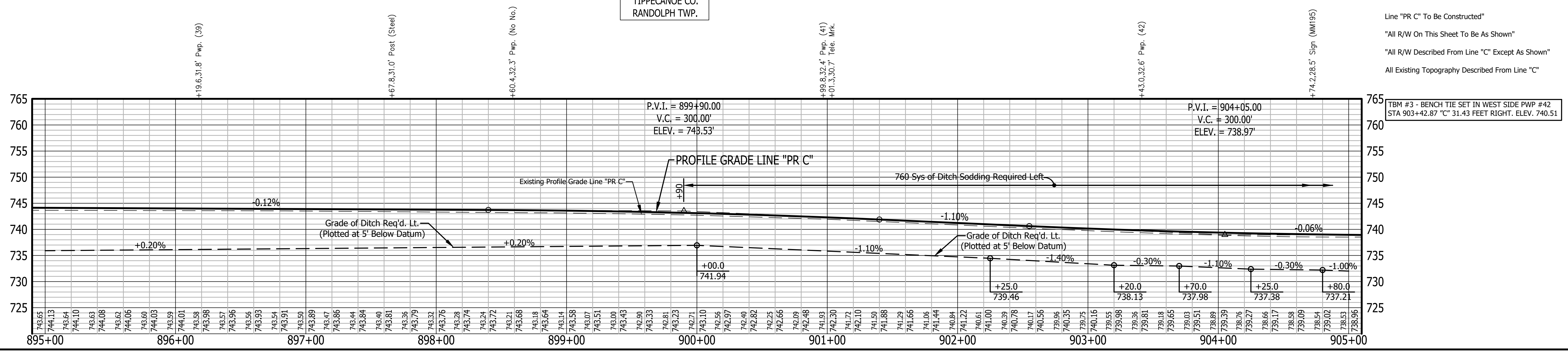
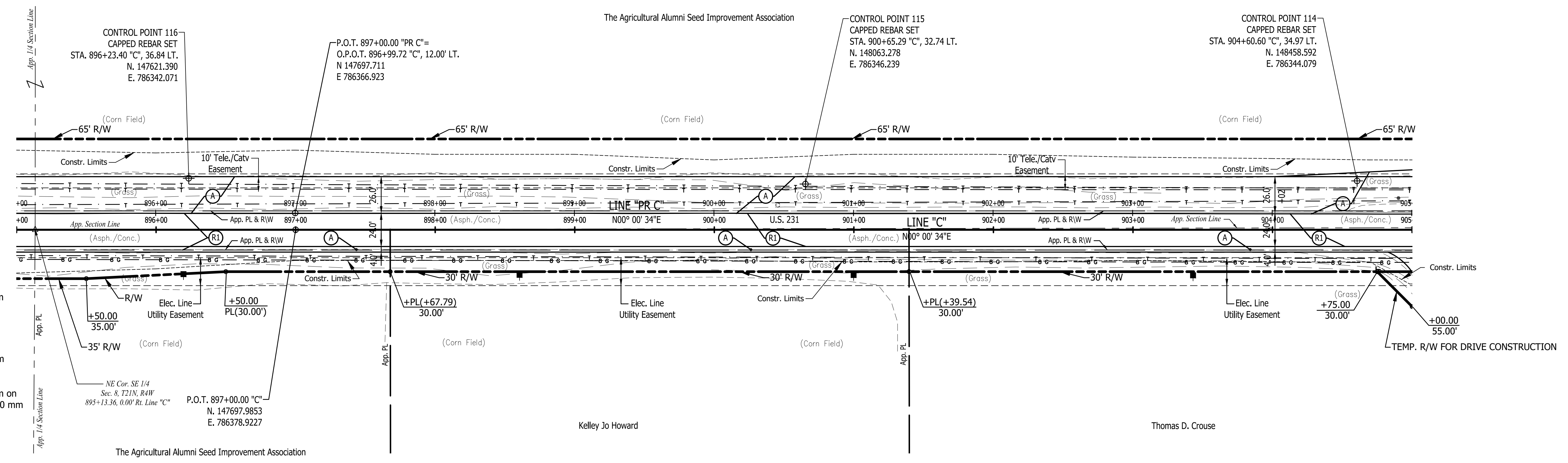
+45.5,17.7' Handhole
(Fiber Optic)

+90.2,22.7' Mailbox (92.3)



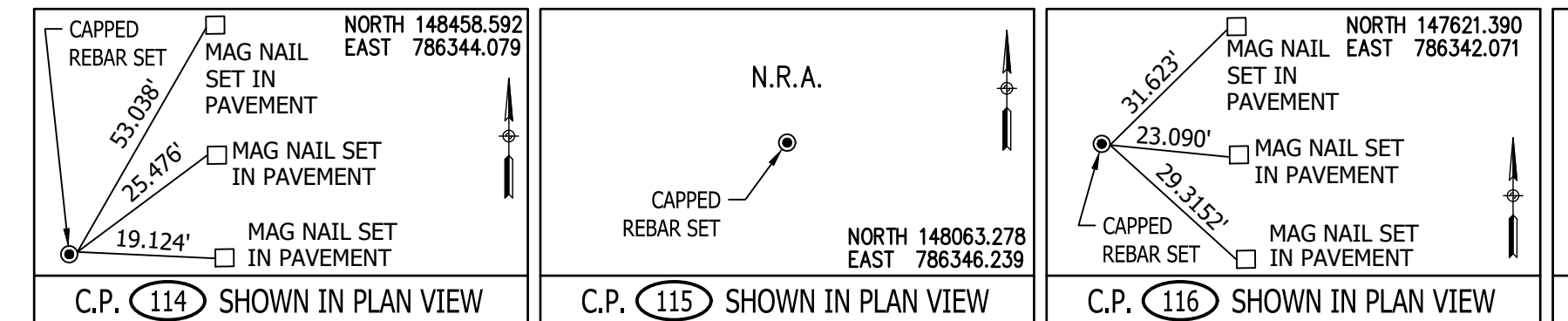
LEGEND

- (A) Preliminary Pavement:
165#/Syd QC/QA-HMA 3, 64, Surface 9.5 mm on
275#/Syd QC/QA-HMA 3, 64, Intermediate 19.0 mm on
660#/Syd QC/QA-HMA 3, 64, Base, 19.0 mm (2 Lifts) on
Subgrade Treatment Type XX
- (A1) HMA for Approaches, Type C:
165#/Syd HMA Surface Type C on
275#/Syd HMA Intermediate Type C on
330#/Syd HMA Base Type C on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D1) HMA for Approaches, Type B:
165#/Syd HMA Surface Type B on
275#/Syd HMA Intermediate Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D2) HMA for Approaches, Type B:
165#/Syd HMA Surface, Type B on
275#/Syd HMA Intermediate, Type B on
660#/Syd HMA Base, Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II on
Geogrid, Type 1B
- (D3) 12" Compacted Aggregate No. 53
- (O) Variable Depth Compacted Aggregate, No. 53
- (R) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (RO) Resurfacing to be Done By Others
Under INDOT Des. No. 2000867
2" Asphalt Milling With
220#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (R1) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on
Variable QC/QA-HMA, 3, 64, Intermediate, 19.0 mm
(275#/Syd. Minimum, 385#/Syd. Maximum -
Increase Milling Depth as Needed to Insure
Proper Minimum HMA Thickness)
- (T) Asphalt Material for Tack Coat
- (26) Sodding (Nursery) W/Topsoil
(4" As Req'd. Under Sodding)
- (27) Seed Mixture, R



Line "PR C" To Be Constructed"
"All R/W On This Sheet To Be As Shown"
"All R/W Described From Line "C" Except As Shown"
All Existing Topography Described From Line "C"

B.M. #3 - BENCH TIE SET IN WEST SIDE PWP #42
STA 903+42.87 "C" 31.43 FEET RIGHT. ELEV. 740.51



Stage 2 Plans

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

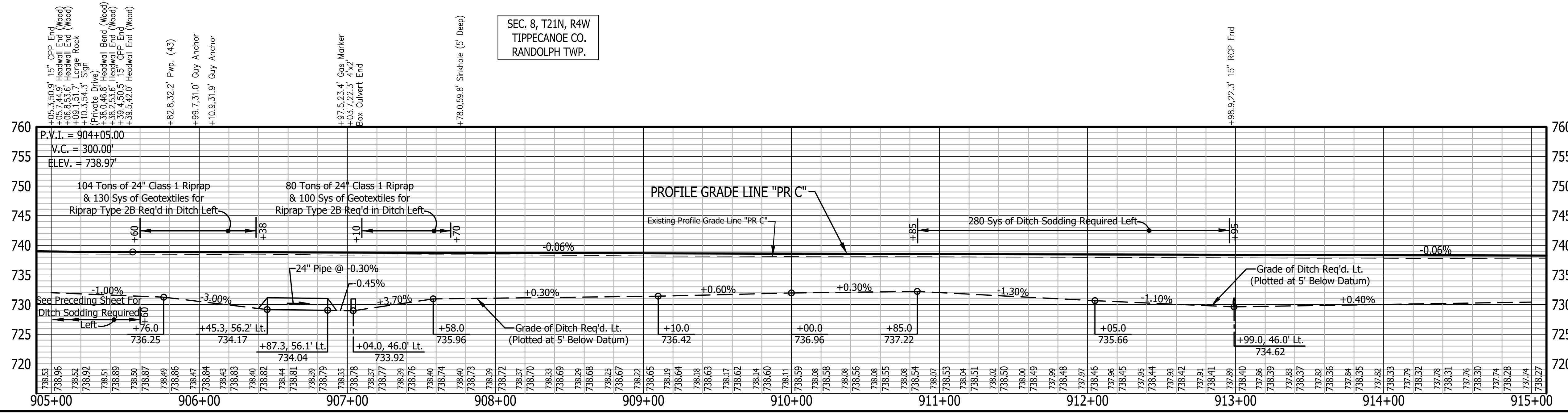
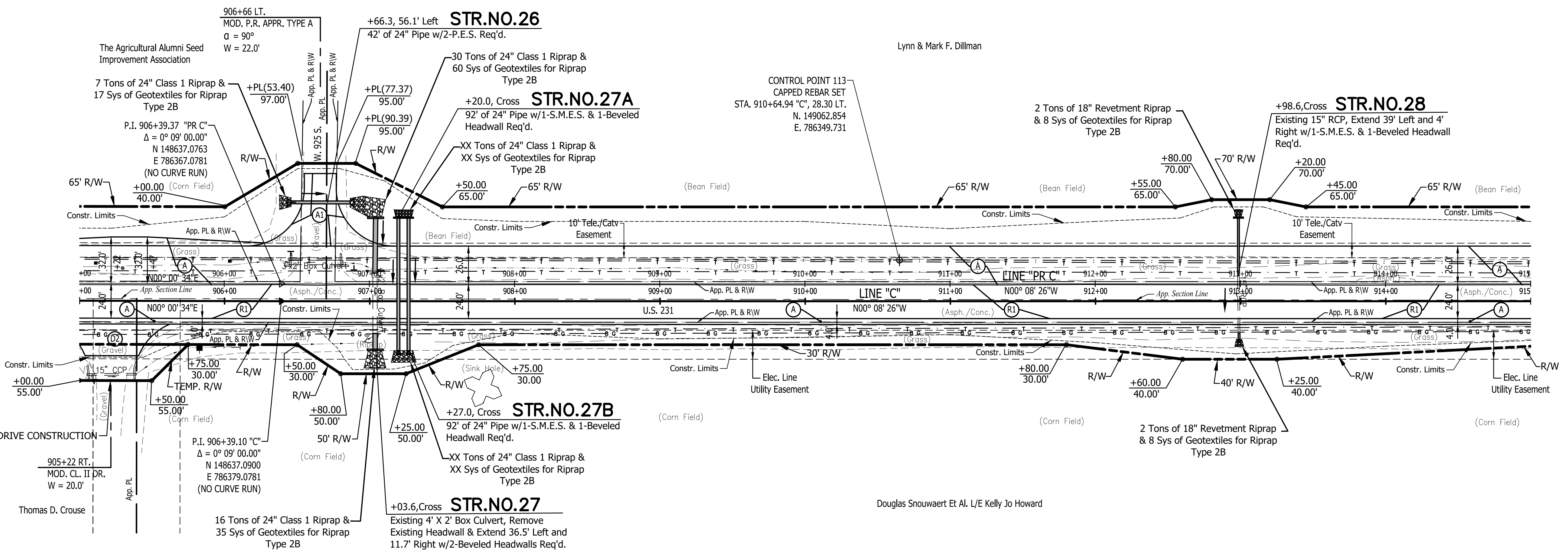
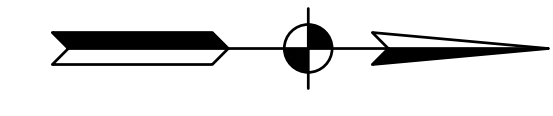
INDIANA
DEPARTMENT OF TRANSPORTATION

U.S. 231- LINE "C"
PLAN AND PROFILE SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1700190
SURVEY BOOK	SHEETS
N/A	43 of 161
CONTRACT	PROJECT
R-41623	1700190

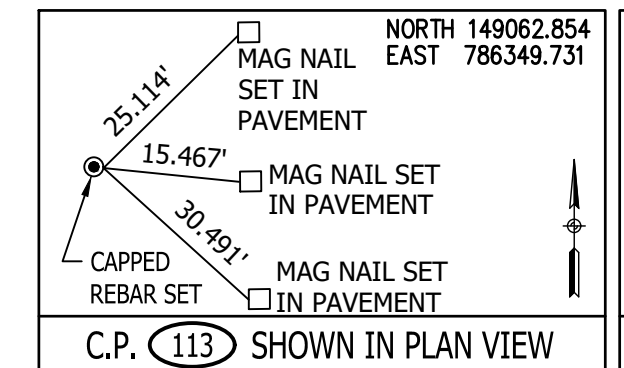
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SEC. 7, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.



Line "PR C" To Be Constructed
 "All R/W On This Sheet To Be As Shown"
 "All R/W Described From Line "C" Except As Shown"
 All Existing Topography Described From Line "C"

TBM #3 - BENCH TIE SET IN WEST SIDE PWP #42
 STA 903+42.87 "C" 31.43 FEET RIGHT. ELEV. 740.51
 TBM #4 - BENCH TIE SET IN WEST SIDE 24"
 HACKBERRY STA 925+93.09 "C" 30.14 FEET RIGHT.
 ELEV. 737.92



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

INDIANA
DEPARTMENT OF TRANSPORTATION

U.S. 231- LINE "C"
PLAN AND PROFILE SHEET

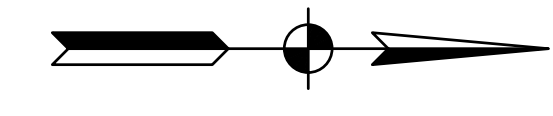
HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1700190
SURVEY BOOK	SHEETS
N/A	44 of 161
CONTRACT	PROJECT
R-41623	1700190

Stage 2 Plans

915 917 919 921 923 925

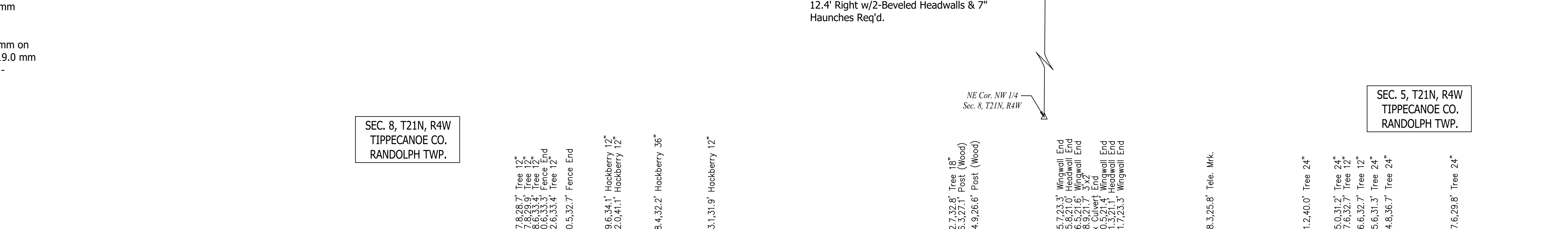
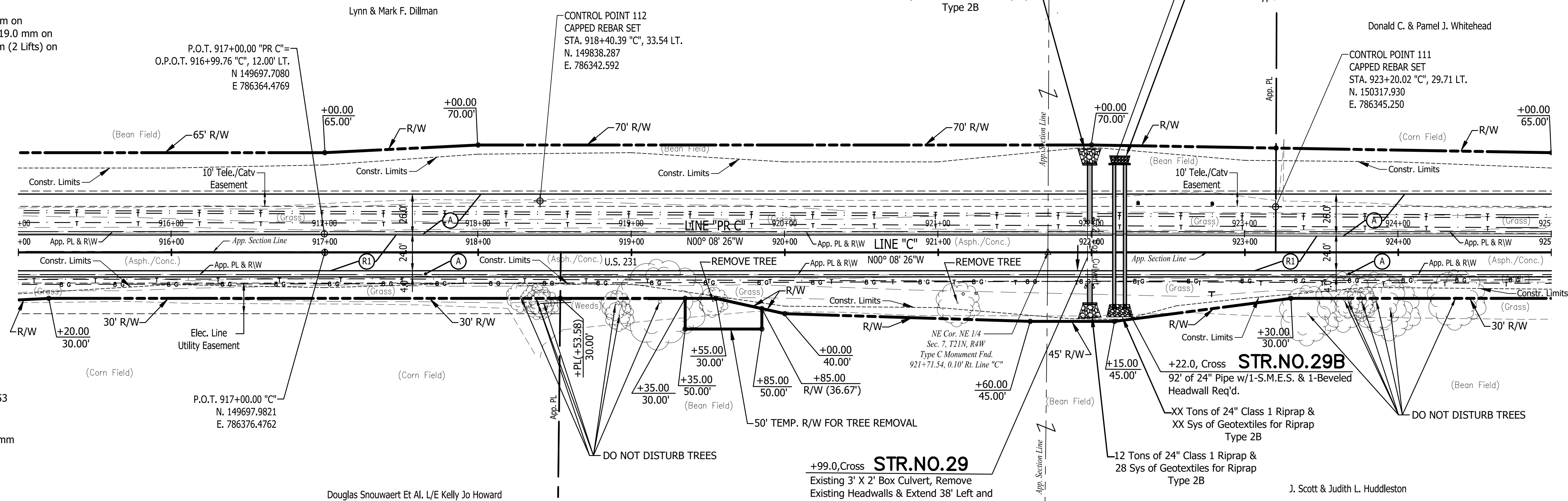
SEC. 7, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

SEC. 6, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.



LEGEND

- (A) Preliminary Pavement:
165#/Syd QC/QA-HMA 3, 64, Surface 9.5 mm on
275#/Syd QC/QA-HMA 3, 64, Intermediate 19.0 mm on
660#/Syd QC/QA-HMA 3, 64, Base, 19.0 mm (2 Lifts) on
Subgrade Treatment Type XX
- (A1) HMA for Approaches, Type C:
165#/Syd HMA Surface Type C on
275#/Syd HMA Intermediate Type C on
330#/Syd HMA Base Type C on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D1) HMA for Approaches, Type B:
165#/Syd HMA Surface Type B on
275#/Syd HMA Intermediate Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D2) HMA for Approaches, Type B:
165#/Syd HMA Surface, Type B on
275#/Syd HMA Intermediate, Type B on
660#/Syd HMA Base, Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II on
Geogrid, Type 1B
- (D3) 12" Compacted Aggregate No. 53
- (O) Variable Depth Compacted Aggregate, No. 53
- (R) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (R0) Resurfacing to be Done By Others
Under INDOT Des. No. 2000867
2" Asphalt Milling With
220#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (R1) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on
Variable QC/QA-HMA, 3, 64, Intermediate, 19.0 mm
(275#/Syd. Minimum, 385#/Syd. Maximum -
Increase Milling Depth as Needed to Insure
Proper Minimum HMA Thickness)
- (T) Asphalt Material for Tack Coat
- (26) Sodding (Nursery) W/Topsoil
(4" As Req'd. Under Sodding)
- (27) Seed Mixture, R

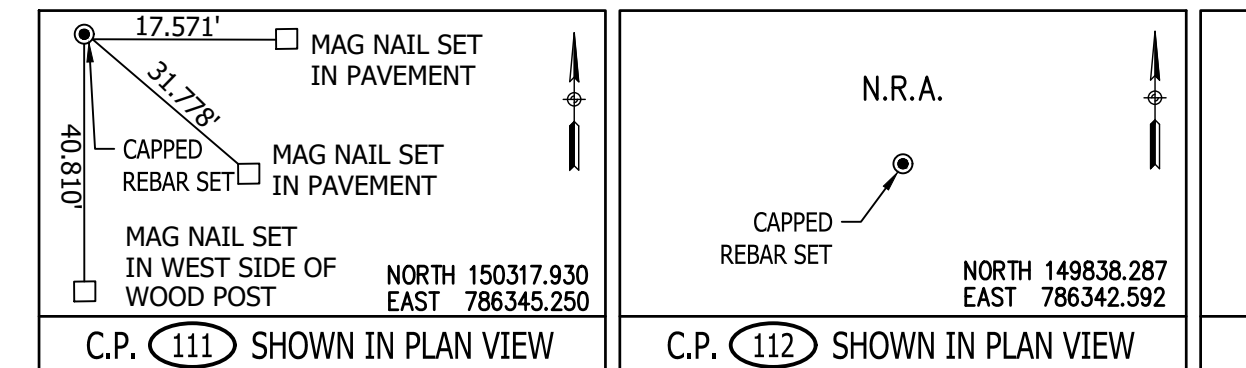


Line "PR C" To Be Constructed"
"All R/W On This Sheet To Be As Shown"
"All R/W Described From Line "C" Except As Shown"
All Existing Topography Described From Line "C"

TBM #4 - BENCH TIE SET IN WEST SIDE 24" HACKBERRY
STA 925+93.09 "C" 30.14 FEET RIGHT. ELEV. 737.92

SEC. 8, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

SEC. 5, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.



Stage 2 Plans

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

INDIANA
DEPARTMENT OF TRANSPORTATION

U.S. 231- LINE "C"
PLAN AND PROFILE SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1700190
SURVEY BOOK	SHEETS
N/A	45 of 161
CONTRACT	PROJECT
R-41623	1700190

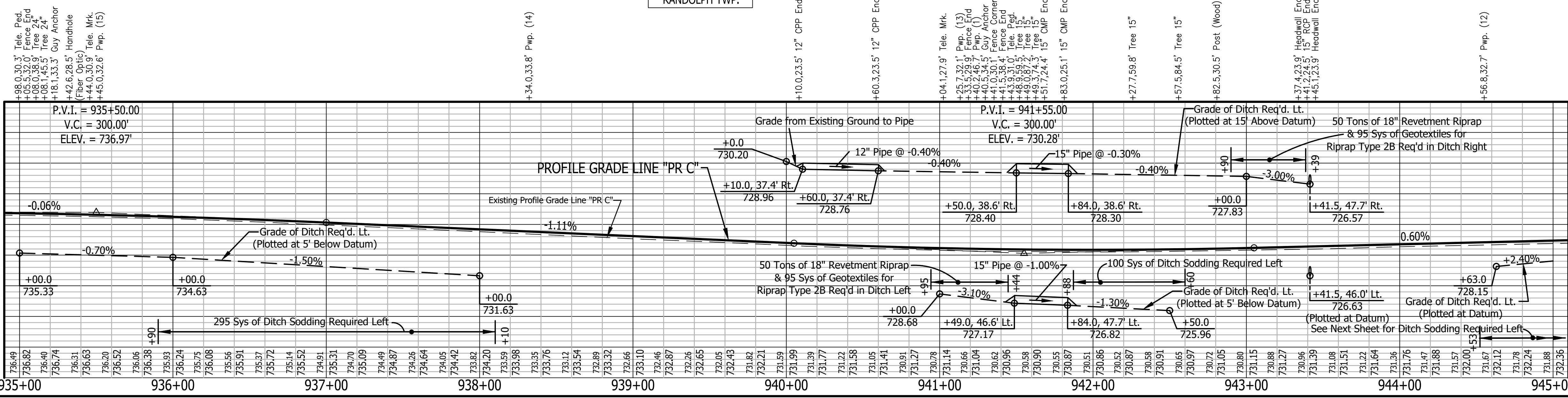
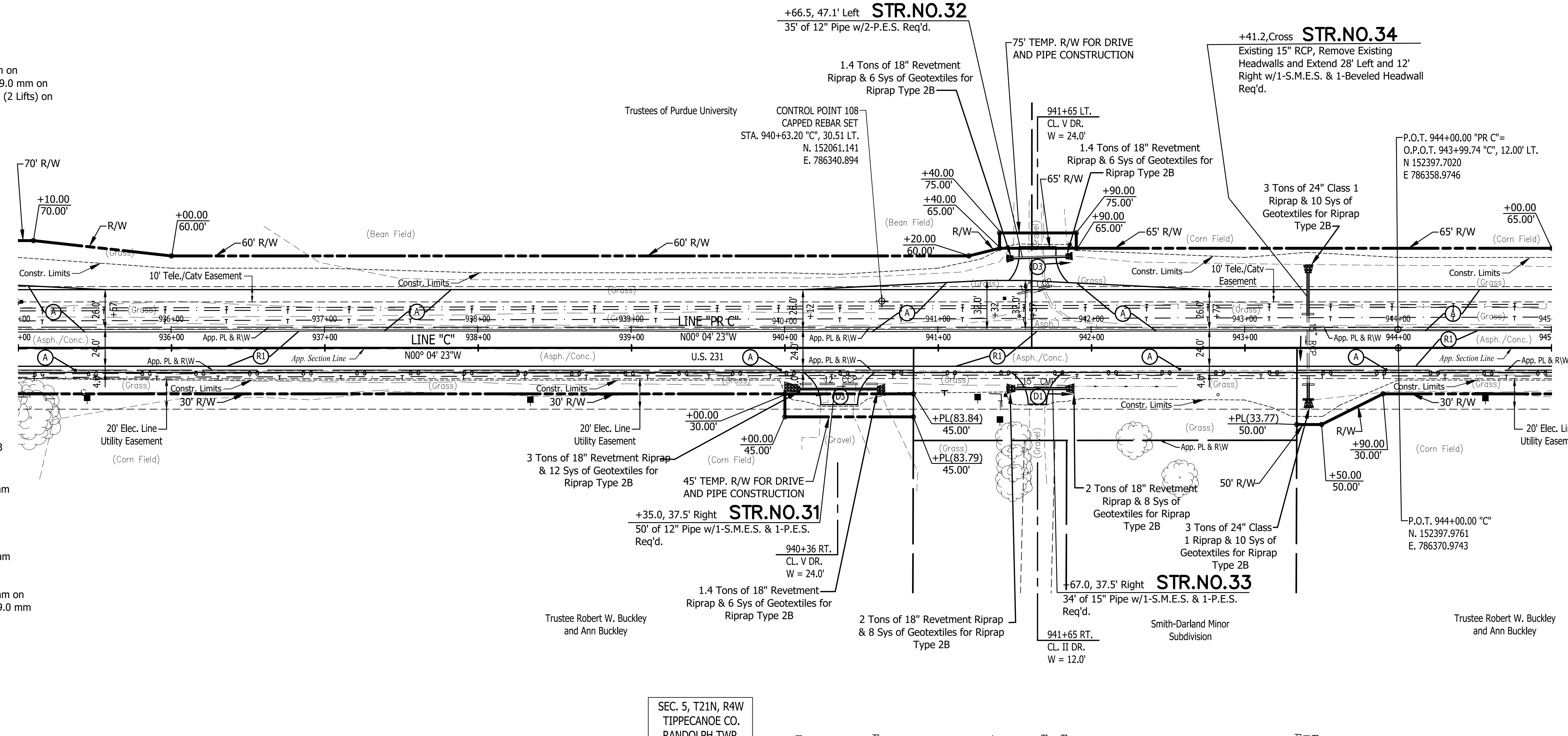
935 937 939 941 943 945

SEC. 6, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

SEC. 5, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

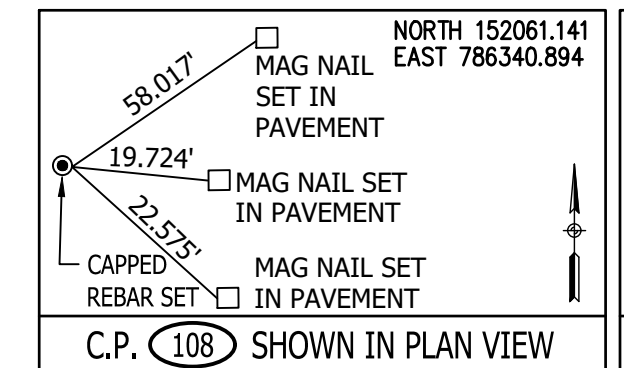
LEGEND

- (A) Preliminary Pavement:
165#/Syd QC/QA-HMA 3, 64, Surface 9.5 mm on
275#/Syd QC/QA-HMA 3, 64, Intermediate 19.0 mm on
660#/Syd QC/QA-HMA 3, 64, Base, 19.0 mm (2 Lifts) on
Subgrade Treatment Type XX
- (A1) HMA for Approaches, Type C:
165#/Syd HMA Surface Type C on
275#/Syd HMA Intermediate Type C on
330#/Syd HMA Base Type C on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D1) HMA for Approaches, Type B:
165#/Syd HMA Surface Type B on
275#/Syd HMA Intermediate Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D2) HMA for Approaches, Type B:
165#/Syd HMA Surface, Type B on
275#/Syd HMA Intermediate, Type B on
660#/Syd HMA Base, Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II on
Geogrid, Type 1B
- (D3) 12" Compacted Aggregate No. 53
- (O) Variable Depth Compacted Aggregate, No. 53
- (R) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (RO) Resurfacing to be Done By Others
Under INDOT Des. No. 2000867
2" Asphalt Milling With
220#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (R1) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on
Variable QC/QA-HMA, 3, 64, Intermediate, 19.0 mm
(275#/Syd. Minimum, 385#/Syd. Maximum -
Increase Milling Depth as Needed to Insure
Proper Minimum HMA Thickness)
- (T) Asphalt Material for Tack Coat
- (26) Sodding (Nursery) W/Topsoil
(4" As Req'd. Under Sodding)
- (27) Seed Mixture, R



Line "PR C" To Be Constructed
 "All R/W On This Sheet To Be As Shown"
 "All R/W Described From Line "C" Except As Shown"
 All Existing Topography Described From Line "C"

TBM #4 - BENCH TIE SET IN WEST SIDE 24"
HACKBERRY STA 925+93.09 "C" 30.14 FEET RIGHT.
ELEV. 737.92



Stage 2 Plans

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

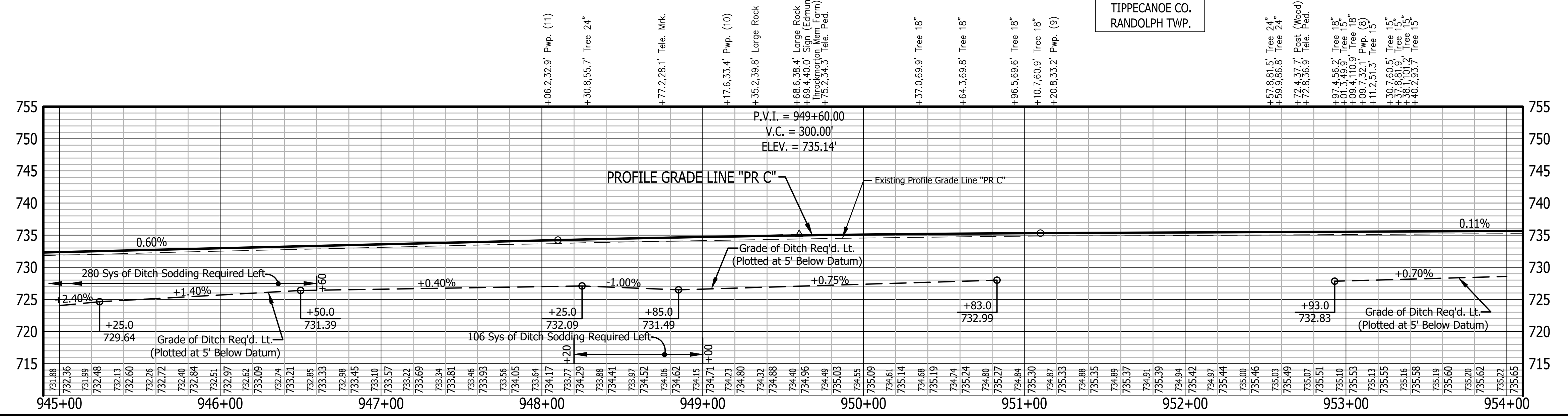
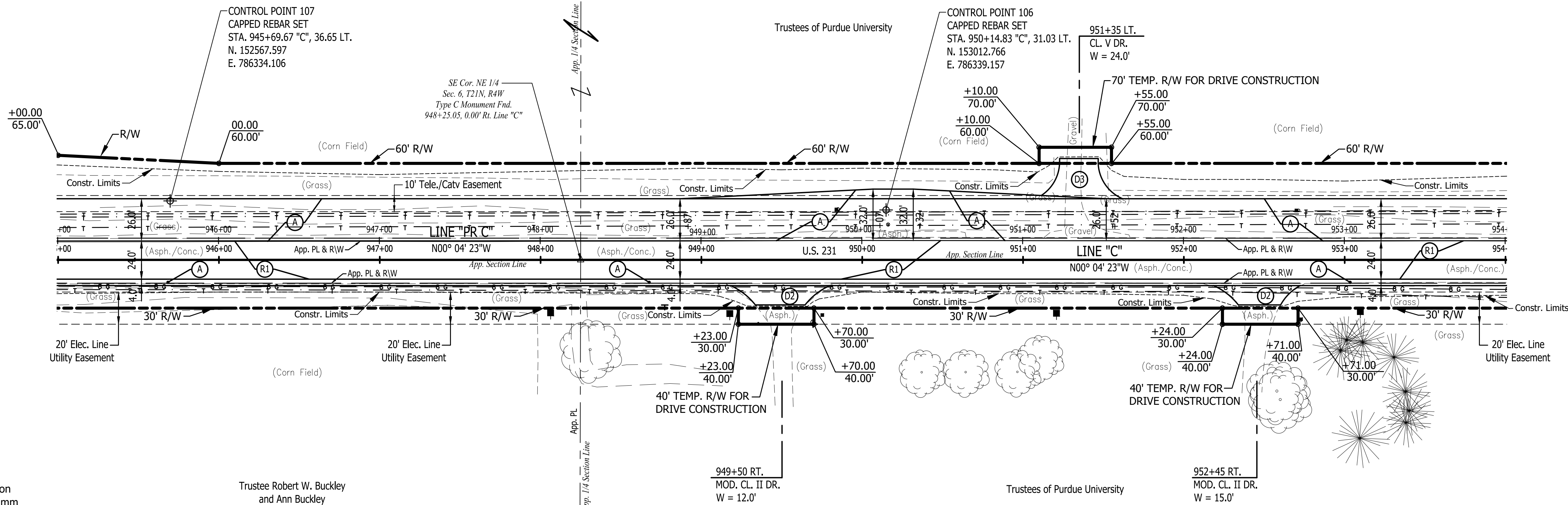
INDIANA
DEPARTMENT OF TRANSPORTATION

U.S. 231- LINE "C"
PLAN AND PROFILE SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1700190
SURVEY BOOK	SHEETS
N/A	47 of 161
CONTRACT	PROJECT
R-41623	1700190

LEGEND

- (A) Preliminary Pavement:
165#/Syd QC/QA-HMA 3, 64, Surface 9.5 mm on
275#/Syd QC/QA-HMA 3, 64, Intermediate 19.0 mm on
660#/Syd QC/QA-HMA 3, 64, Base, 19.0 mm (2 Lifts) on
Subgrade Treatment Type XX
- (A1) HMA for Approaches, Type C:
165#/Syd HMA Surface Type C on
275#/Syd HMA Intermediate Type C on
330#/Syd HMA Base Type C on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D1) HMA for Approaches, Type B:
165#/Syd HMA Surface Type B on
275#/Syd HMA Intermediate Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D2) HMA for Approaches, Type B:
165#/Syd HMA Surface, Type B on
275#/Syd HMA Intermediate, Type B on
660#/Syd HMA Base, Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II on
Geogrid, Type 1B
- (D3) 12" Compacted Aggregate No. 53
- (O) Variable Depth Compacted Aggregate, No. 53
- (R) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (RO) Resurfacing to be Done By Others
Under INDOT Des. No. 2000867
2" Asphalt Milling With
220#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (R1) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on
Variable QC/QA-HMA, 3, 64, Intermediate, 19.0 mm
(275#/Syd. Minimum, 385#/Syd. Maximum -
Increase Milling Depth as Needed to Insure
Proper Minimum HMA Thickness)
- (T) Asphalt Material for Tack Coat
- (26) Sodding (Nursery) W/Topsoil
(4" As Req'd. Under Sodding)
- (27) Seed Mixture, R



Line "PR C" To Be Constructed
 "All R/W On This Sheet To Be As Shown"
 "All R/W Described From Line "C" Except As Shown"
 All Existing Topography Described From Line "C"
 TBM #4 - BENCH TIE SET IN WEST SIDE 24" HACKBERRY
 STA 925+93.09 "C" 30.14 FEET RIGHT. ELEV. 737.92

SEC. 6, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

SEC. 5, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

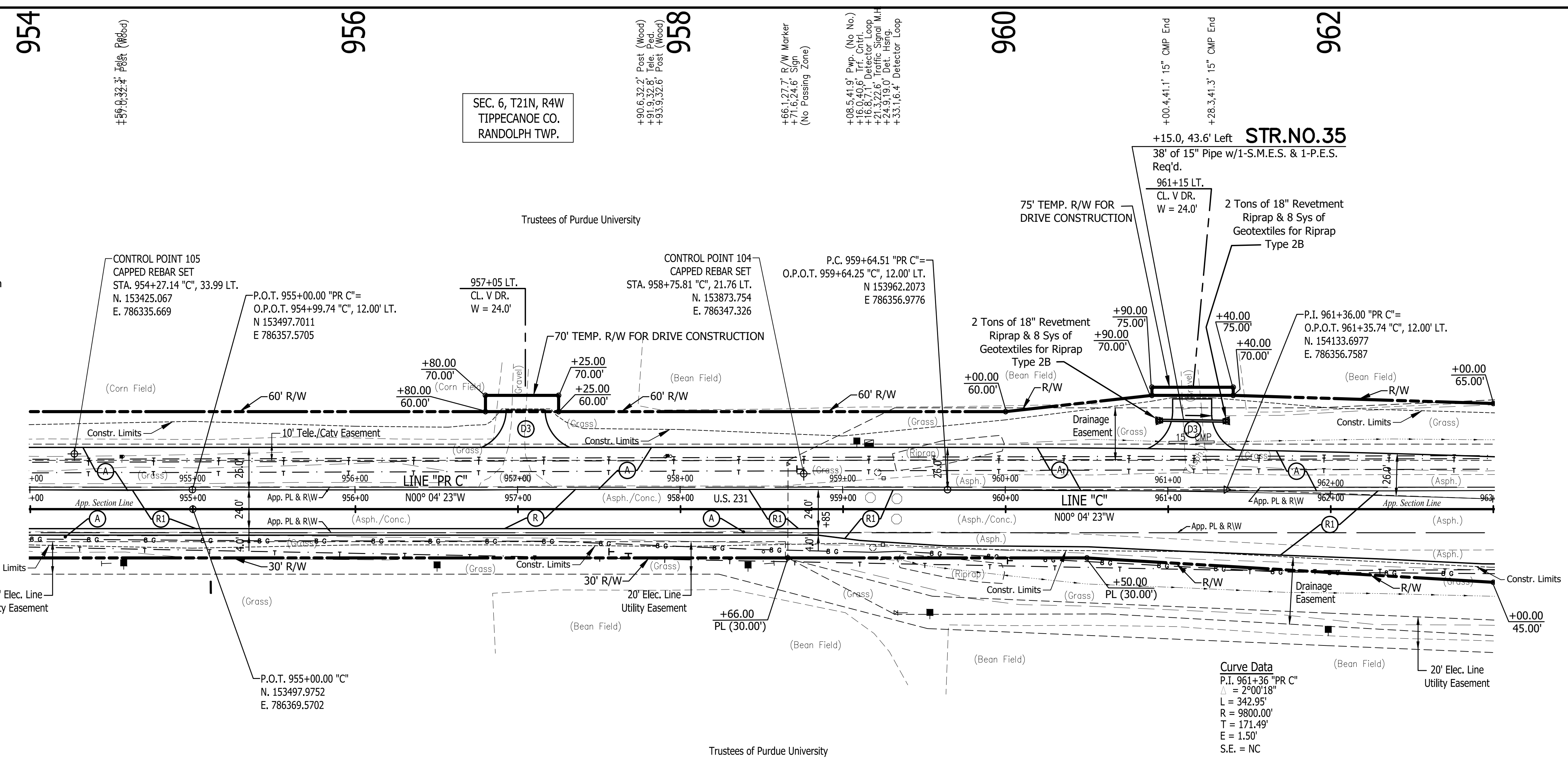
Stage 2 Plans

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

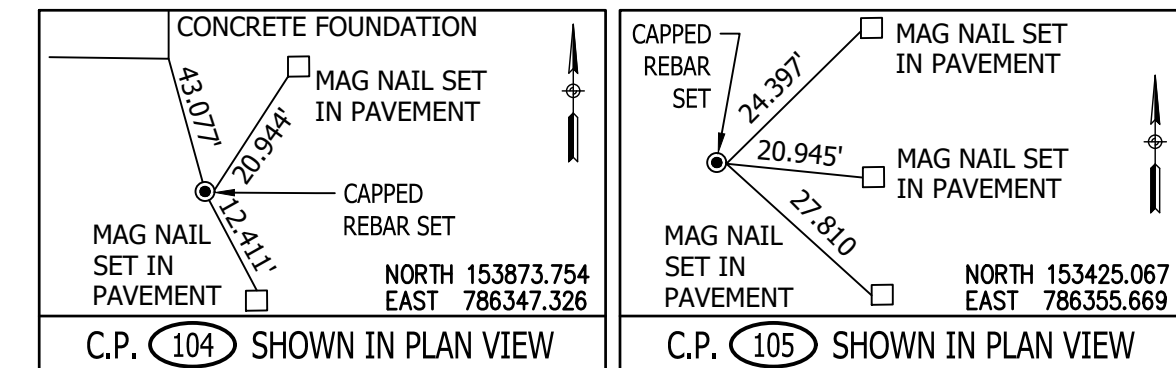
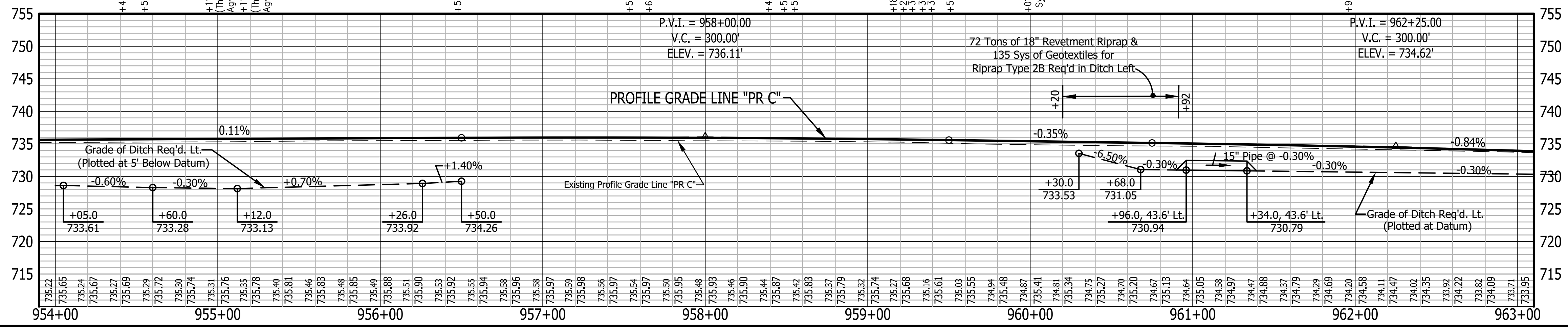
INDIANA
DEPARTMENT OF TRANSPORTATION

U.S. 231- LINE "C"
PLAN AND PROFILE SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1700190
SURVEY BOOK	SHEETS
N/A	48 of 161
CONTRACT	PROJECT
R-41623	1700190



- LEGEND**
- (A) Preliminary Pavement:
 - 165#/Syd QC/QA-HMA 3, 64, Surface 9.5 mm on
 - 275#/Syd QC/QA-HMA 3, 64, Intermediate 19.0 mm on
 - 660#/Syd QC/QA-HMA 3, 64, Base, 19.0 mm (2 Lifts) on
 - Subgrade Treatment Type XX
 - (A1) HMA for Approaches, Type C:
 - 165#/Syd HMA Surface Type C on
 - 275#/Syd HMA Intermediate Type C on
 - 330#/Syd HMA Base Type C on
 - 6" Compacted Aggregate No. 53 on
 - Subgrade Treatment Type II
 - (D1) HMA for Approaches, Type B:
 - 165#/Syd HMA Surface Type B on
 - 275#/Syd HMA Intermediate Type B on
 - 6" Compacted Aggregate No. 53 on
 - Subgrade Treatment Type II
 - (D2) HMA for Approaches, Type B:
 - 165#/Syd HMA Surface, Type B on
 - 275#/Syd HMA Intermediate, Type B on
 - 660#/Syd HMA Base, Type B on
 - 6" Compacted Aggregate No. 53 on
 - Subgrade Treatment Type II on
 - Geogrid, Type 1B
 - (D3) 12" Compacted Aggregate No. 53
 - (O) Variable Depth Compacted Aggregate, No. 53
 - (R) 1-1/2" Asphalt Milling With
 - 165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
 - (R0) Resurfacing to be Done By Others
 - Under INDOT Des. No. 2000867
 - 2" Asphalt Milling With
 - 220#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
 - (R1) 1-1/2" Asphalt Milling With
 - 165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on
 - Variable QC/QA-HMA, 3, 64, Intermediate, 19.0 mm
 - (275#/Syd. Minimum, 385#/Syd. Maximum -
 - Increase Milling Depth as Needed to Insure
 - Proper Minimum HMA Thickness)
 - (T) Asphalt Material for Tack Coat
 - (26) Sodding (Nursery) W/Topsoil
 - (4" As Req'd. Under Sodding)
 - (27) Seed Mixture, R



SEC. 6, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

SEC. 5, T21N, R4W
TIPPECANOE CO.
RANDOLPH TWP.

Stage 2 Plans

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

INDIANA
DEPARTMENT OF TRANSPORTATION

U.S. 231- LINE "C"
PLAN AND PROFILE SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1700190
SURVEY BOOK	SHEETS
N/A	49 of 161
CONTRACT	PROJECT
R-41623	1700190

Line "PR C" To Be Constructed

All R/W On This Sheet To Be As Shown

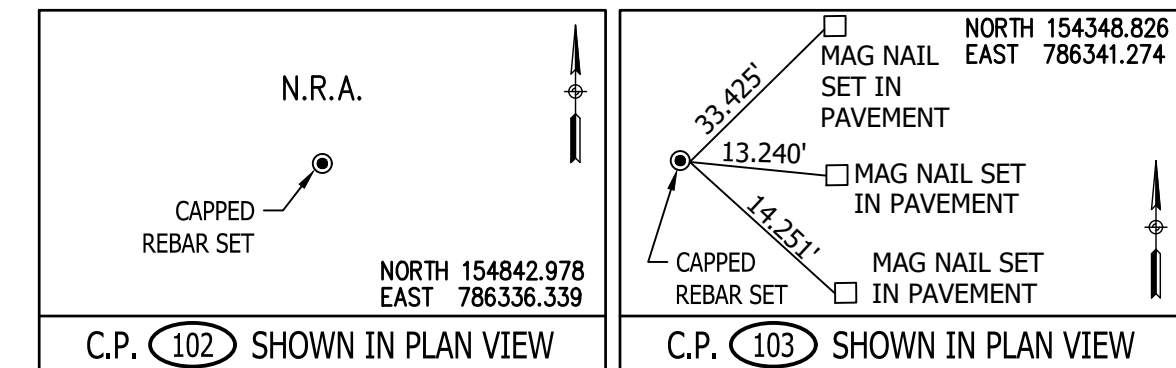
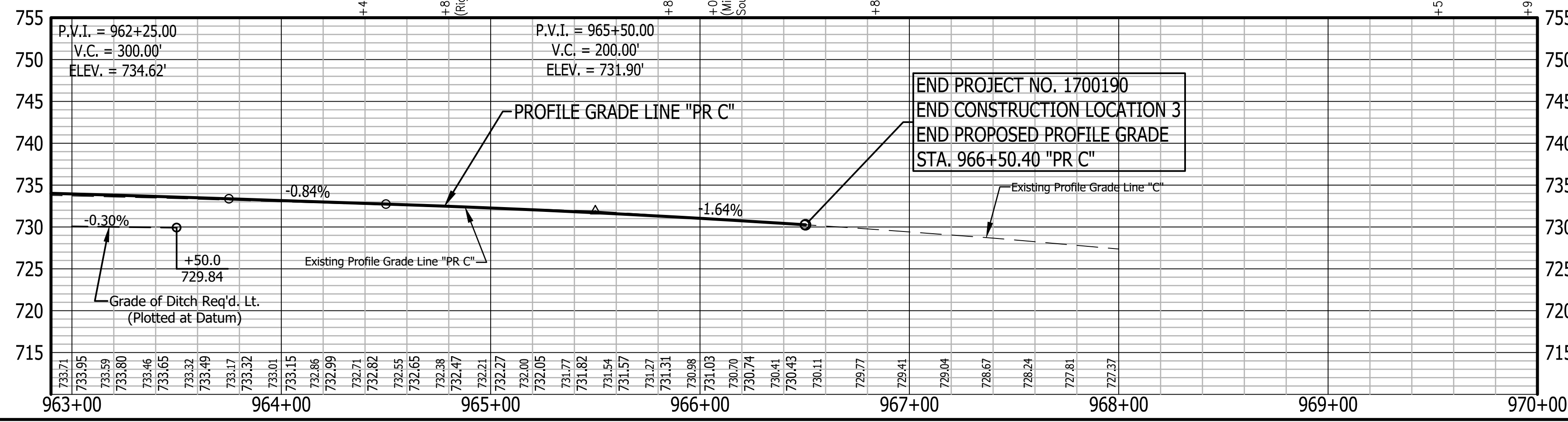
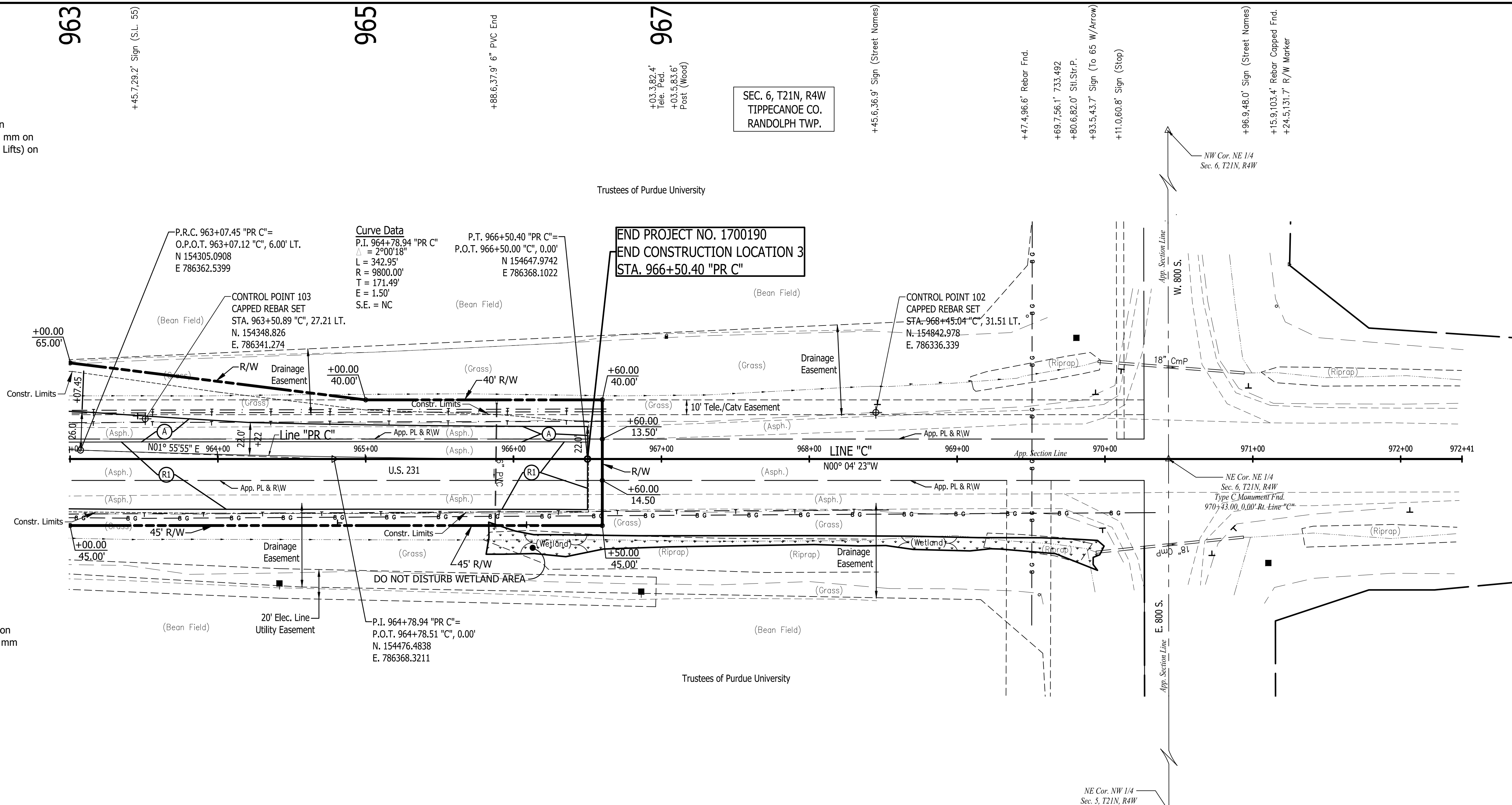
All R/W Described From Line "C" Except As Shown

All Existing Topography Described From Line "C"

TBM #4 - BENCH TIE SET IN WEST SIDE 24" HACKBERRY
STA 925+93.09 "C" 30.14 FEET RIGHT. ELEV. 737.92

LEGEND

- (A) Preliminary Pavement:
165#/Syd QC/QA-HMA 3, 64, Surface 9.5 mm on
275#/Syd QC/QA-HMA 3, 64, Intermediate 19.0 mm on
660#/Syd QC/QA-HMA 3, 64, Base, 19.0 mm (2 Lifts) on
Subgrade Treatment Type XX
- (A1) HMA for Approaches, Type C:
165#/Syd HMA Surface Type C on
275#/Syd HMA Intermediate Type C on
330#/Syd HMA Base Type C on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D1) HMA for Approaches, Type B:
165#/Syd HMA Surface Type B on
275#/Syd HMA Intermediate Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II
- (D2) HMA for Approaches, Type B:
165#/Syd HMA Surface, Type B on
275#/Syd HMA Intermediate, Type B on
660#/Syd HMA Base, Type B on
6" Compacted Aggregate No. 53 on
Subgrade Treatment Type II on
Geogrid, Type 1B
- (D3) 12" Compacted Aggregate No. 53
- (O) Variable Depth Compacted Aggregate, No. 53
- (R) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (RO) Resurfacing to be Done By Others
Under INDOT Des. No. 2000867
2" Asphalt Milling With
220#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm
- (R1) 1-1/2" Asphalt Milling With
165#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on
Variable QC/QA-HMA, 3, 64, Intermediate, 19.0 mm
(275#/Syd. Minimum, 385#/Syd. Maximum -
Increase Milling Depth as Needed to Insure
Proper Minimum HMA Thickness)
- (T) Asphalt Material for Tack Coat
- (26) Sodding (Nursery) W/Topsoil
(4" As Req'd. Under Sodding)
- (27) Seed Mixture, R



C.P. 102 SHOWN IN PLAN VIEW	C.P. 103 SHOWN IN PLAN VIEW								
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Stage 2 Plans

RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER _____ DATE _____

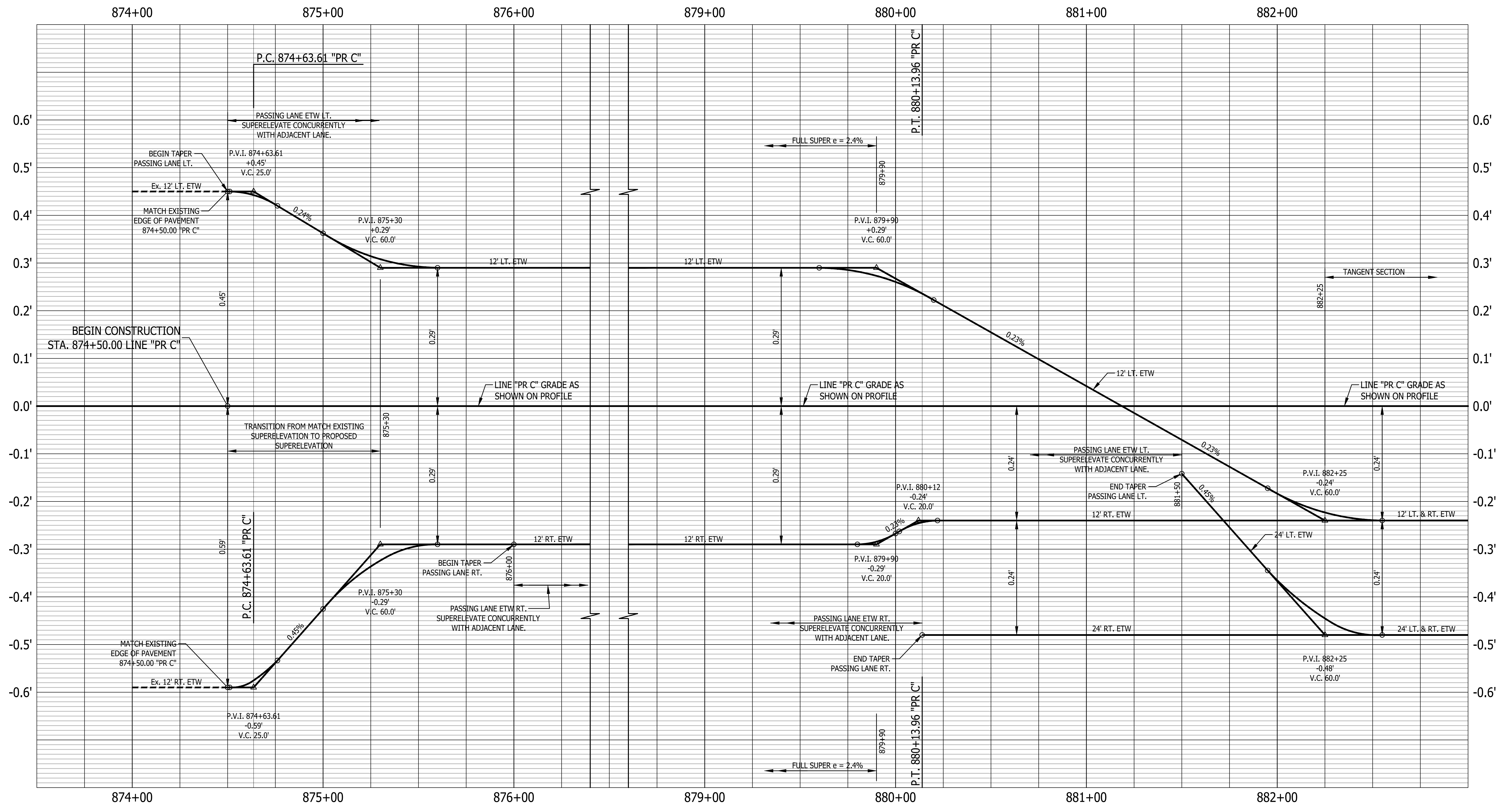
DESIGNED BY: B.M.S./C.E.S. DRAWN BY: B.M.S.

CHECKED BY: B.M.S./C.E.S. CHECKED BY: J.L.B.

INDIANA DEPARTMENT OF TRANSPORTATION

**U.S. 231- LINE "C"
PLAN AND PROFILE SHEET**

HORIZONTAL SCALE 1" = 40'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 10'	DESIGNATION 1700190
SURVEY BOOK N/A	SHEETS 50 of 161
CONTRACT R-41623	PROJECT 1700190



CURVE AT P.I. 877+38.98 "PR C"
 R = 6000.00'
 DESIGN V = 55 MPH
 e = 2.4%
 G_{max} = 0.47%

Stage 2 Plans

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: J.P.H.	DRAWN: J.P.H.	
CHECKED: J.L.B.	CHECKED: J.L.B.	

INDIANA DEPARTMENT OF TRANSPORTATION
 SUPERELEVATION TRANSITION DIAGRAM

HORIZONTAL SCALE 1" = 25'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 0.1'	DESIGNATION 1700190
SURVEY BOOK N/A	SHEETS 51 of 161
CONTRACT R-41623	PROJECT 1700190

STRUCTURE DATA

Structure Number	Location	Left	Right	Cross	Size Inches	Pipe Type	Manhole, Inlet Catch Basin, Or Specialty Structure	Length Ft.	Slew	Cover	Flow Line		Service Life Yr.	Site Designation	PH	Structure Backfill		Flowable Backfill Non-Removable Video For Pipe Inspection Cys.	Safety Metal End Section, 6:1 Ea.	Safety Metal End Section, 4:1 Ea.	Pipe End Section Ea.	Beveled Headwall Ea.	Remarks	
											Up Stream Elev.	Down Stream Elev.				Type 1	Type 5							
											Cu. Yds.													
Line "A"																								
Location 1																								
11	395+72.3		X		5' x 2.5'	Reinforced Conc. Box Ext.		23		2	790.78	790.31	75	A.	7.9	30							1	Remove Exist. Headwall. Extend Box Culvert
12	402+46.4	X			12	Pipe		33		1	794.25	794.02	75	A.	7.9	7			33	1	1			
13	414+52.5		X		36	Trenchless Pipe		86		-	804.66	802.99	75	A.	7.9			20	86			2	CLV #231-54-185.68	
14	417+24.4	X			12	Pipe		62		1	808.96	808.54	75	A.	7.9	13			62	1	1			
15	422+75.0		X		36	Trenchless Pipe		120		-	808.66	808.06	75	A.	7.9			31	120			1	1	CLV #231-54-185.85
16	455+03.0		X		36	Trenchless Pipe		169		-	826.00	825.45	75	A.	7.9			43	169			1	1	CLV #231-54-186.45
Line "B"																								
Location 2																								
17	707+51.6	X			15	Pipe		22		1	751.10	751.04	75	A.	7.9	6			22	1	1			
18	710+22.0	X			12	Pipe		32		1	750.44	750.28	75	A.	7.9	7			32	1		1		
19	711+23.6		X		24	Pipe		30		1	749.00	748.77	75	A.	7.9	13			30		1	1		Extend 24" R.C.P.
20	713+70.0	X			12	Pipe		102		1	750.30	750.00	75	A.	7.9	21			102			2		
21	722+06.8		X		15	Pipe		36		2	753.47	751.60	75	A.	7.9	13			36		1	1		Remove Exist. Headwalls. Extend 15" R.C.P.
22	744+98.0		X		5' x 3'	Reinforced Conc. Box Ext.		43		1	731.27	730.67	75	A.	7.9	32						2		Remove Exist. Headwalls. Extend Box Culvert
23	752+43.5		X		24	Pipe		29		1	729.41	728.36	75	A.	7.9	13			29		1	1		Remove Exist. Headwalls. Extend 24" R.C.P.
24	754+79.0	X			12	Pipe		43		1	729.89	729.38	75	A.	7.9	9			43	1		1		
Line "C"																								
Location 3																								
25	893+98.5	X			15	Pipe		44		2	740.31	740.26	75	A.	7.9	11			44		1	1		Remove Exist. Headwalls. Extend 15" R.C.P.
26	906+66.3	X			24	Pipe		42		1	734.17	734.04	75	A.	7.9	17			42			2		
27	907+03.6		X		3' x 2'	Reinforced Conc. Box Ext.		50		2	733.96	733.46	75	A.	7.9	8						2		Remove Exist. Headwall. Extend Box Culvert
28	912+98.6		X		15	Pipe		43		1	734.62	734.27	75	A.	7.9	9			43		1	1		Extend 15" R.C.P.
29	921+99.0		X		3' x 2'	Reinforced Conc. Box Ext.		54		1	732.91	732.65	75	A.	7.9	9						2		Remove Exist. Headwalls. Extend R.B.C. 7" Haunches Req'd
30	930+41.7		X		15	Pipe		49		1	734.00	733.53	75	A.	7.9	10			49		1	1		Remove Exist. Headwalls. Extend 15" R.C.P.
31	940+35.0		X		12	Pipe		50		1	728.96	728.76	75	A.	7.9	10			50	1		1		
32	941+66.5	X			12	Pipe		35		1	727.17	726.82	75	A.	7.9	7			35			2		
33	941+67.0		X		15	Pipe		34		1	728.40	728.30	75	A.	7.9	7			34	1		1		
34	943+41.2		X		15	Pipe		40		2	726.90	726.57	75	A.	7.9	20			40		1	1		Remove Exist. Headwalls. Extend 15" R.C.P.
35	961+15.0	X			15	Pipe		38		1	730.94	730.79	75	A.	7.9	8			38	1		1		

LEGEND FOR ABBREVIATION	
A.C.S.2. ——— ALUMINUM COATED STEEL TYPE 2	C.M.P.A. ——— CORRUGATED METAL PIPE ARCH
C.S. ——— CORRUGATED STEEL	C.M.P. ——— CORRUGATED METAL PIPE
C.A. ——— CORRUGATED ALUMINUM	D.I.F. ——— DETERMINE IN FIELD
S.P.S. ——— STRUCTURAL PLATE STEEL	C.P.P. ——— CORRUGATED PLASTIC PIPE
G.B.E.S. ——— GRATED BOX END SECTION	R.C.P. ——— REINFORCED CONCRETE PIPE
S.M.E.S. ——— SAFETY METAL CULVERT END SECTION	P.G.C.S. ——— PRECOATED GALVANIZED CORRUGATED STEEL
* ——— INDICATES RIM ELEVATION	S.P.P.A. ——— STRUCTURAL PLATE PIPE ARCH
A. ——— ABRASIVE	M.T.F. ——— MINIMUM TREATMENT FLOW OF B.M.P.
N. ——— NON-ABRASIVE	MOD. M.H. ——— DROP M.H. ACTS AS B.M.P. TO COLLECT SILT

Structure Data Summary	QUANTITY (ROUNDED)
Structure Extension, Reinforced Concrete, Box Section, 3 ft. x 2 ft.	104 Lft.
Structure Extension, Reinforced Concrete, Box Section, 5 ft. x 2.5 ft.	23 Lft.
Structure Extension, Reinforced Concrete, Box Section, 5 ft. x 3 ft.	43 Lft.
Pipe Installation, Trenchless, 36"	375 Lft.
Pipe, Type 1, Circular, 15 in.	176 Lft.
Pipe, Type 1, Circular, 24 in.	30 Lft.
Pipe, Type 3, Circular, 12 in.	357 Lft.
Pipe, Type 3, Circular, 15 in.	130 Lft.
Pipe, Type 3, Circular, 24 in.	71 Lft.
Safety Metal End Section, 6:1, Dia. 12"	5 Ea.
Safety Metal End Section, 6:1, Dia. 15"	3 Ea.
Safety Metal End Section, 4:1, Dia. 15"	5 Ea.
Safety Metal End Section, 4:1, Dia. 24"	2 Ea.
Pipe End Section, Dia. 12"	9 Ea.
Pipe End Section, Dia. 15"	3 Ea.
Pipe End Section, Dia. 24"	2 Ea.
Pipe End Section, Dia. 36"	2 Ea.
Flowable Backfill, Non-Removable	94 Cys.
Structure Backfill, Type 1	280 Cys.
Video Inspection for Pipe	1139 Lft.

Stage 2 Plans	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION U.S. 231 STRUCTURE DATA TABLE	HORIZONTAL SCALE N/A	BRIDGE FILE N/A
	DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.		VERTICAL SCALE N/A	DESIGNATION 1700190
	CHECKED: B.M.S./C.E.S. CHECKED: J.L.B.		SURVEY BOOK N/A	SHEETS 54 of 161
			CONTRACT R-41623	PROJECT 1700190