PROJECT	DESIGNATION
1801421	1801421
CONTRACT	BRIDGE FILE
R-41313	-

KIN DESIGNATION NUMBERS	
ROADWAY	
1801421	146TH ST. & ALLISONVILLE RD. INTERCHANGE
BRIDGE	
**	146TH ST. OVER ALLISONVILLE RD.
1801865	146TH ST. WEST BOUND OVER WHITE RIVER
1801866	146TH ST. EAST BOUND OVER WHITE RIVER

** A DESIGNATION NUMBER FROM INDOT IS FORTHCOMING.

INDIANA DEPARTMENT OF TRANSPORTATION

ROAD PLANS

PROJECT NO. 1801421 P.E., R/W, CN

SEE NEXT SHEET FOR PROJECT TRAFFIC DATA/DESIGN DATA

BOARD OF COUNTY COMMISSIONERS
HAMILTON COUNTY, INDIANA

CHRISTINE ALTMAN, PRESIDENT DATE

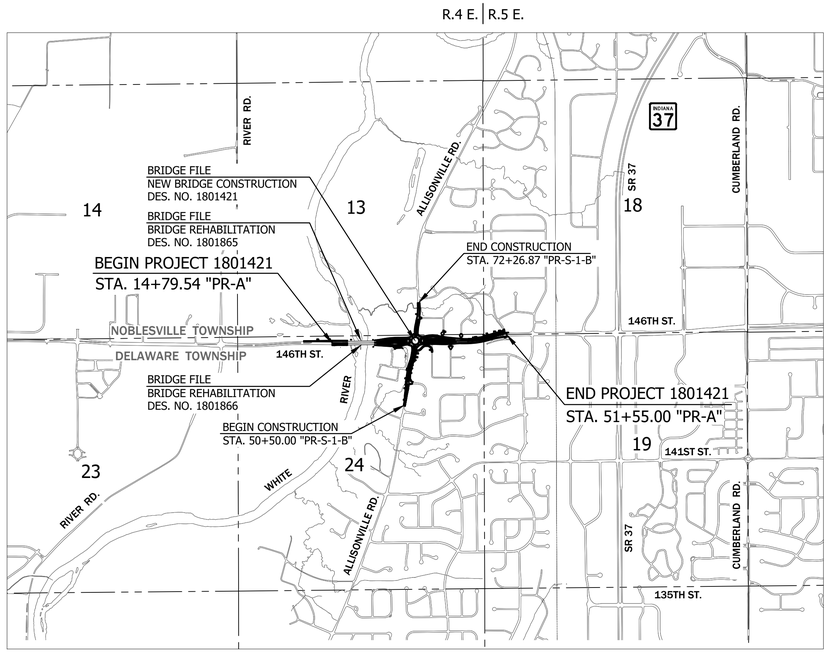
STEVE DILLINGER, COMMISSIONER DATE

MARK HEIRBRANDT, VICE PRESIDENT DATE

HAMILTON COUNTY HIGHWAY DEPARTMENT

JAMES NEAL, P.E, P.M.P., COUNTY HIGHWAY ENGINEER DATE
EMPLOYEE IN RESPONSIBLE CHARGE

THIS PROJECT INCLUDES THE REPLACEMENT OF THE INTERSECTION OF 146TH ST. & ALLISONVILLE RD. WITH A ROUNDABOUT INTERCHANGE.
THIS PROJECT IS LOCATED IN SECTION 13, T18N, R4E, IN NOBLESVILLE TOWNSHIP, SECTION 18, T18N, R5E IN NOBLESVILLE TOWNSHIP, & SECTION 24, T18N, R4E IN DELAWARE TOWNSHIP, & SECTION 19, T18N, R5E IN DELAWARE TOWNSHIP, ALL IN HAMILTON COUNTY, INDIANA.



SCALE: 1" = 1,500'

PROJECT LOCATION MAP
HAMILTON COUNTY

PROJECT LOCATION SHOWN BY

LATITUDE: 40°00'01"N LONGITUDE: 86°01'10"W

GROSS LENGTH: 0.70 MI.
NET LENGTH: 0.70 MI.
MAXIMUM GRADE: 6.50 %

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2020
TO BE USED WITH THESE PLANS

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

STAGE 2
PLANS

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

BRIDGE FILE
-
DESIGNATION
1801421

SURVEY BOOK	SHEETS		
-	1	of	186
CONTRACT	PROJECT		
R-41313	1801421		

File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Title Sheet.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UTILITIES

COMMUNICATIONS:

AT&T Distribution
240 North Meridian Street
Indianapolis, IN 46204
Brad Bailey
317-610-5422

Comcast
Noblesville, IN
William Morris
317-275-6443

Comcast (Telecom Placement)
5330 East 65th Street
Indianapolis, IN 46220
Scott Evans
317-752-6569

Intelligent Fiber Network (Indiana Fiber Network, IFN)
722 N. High School Road,
Indianapolis, IN 46214
Mark Zoltek
317-777-7820
mzoltek@intelligentfiber.com

Metronet Inc.
3701 Communications Way
Evansville, IN 47715
Korie Nellis

Ellis Engineering (IFN)
3921 Clarks Creek Rd
Plainfield, IN 46168
Brian Cravens
Adam Lamb
317-406-3047

ELECTRIC:

Duke Energy - Distribution
Initial Contact

GAS:

CenterPoint Energy (Vectren Distribution)
Shawn Williams
317-776-5574

STORM/SEWER:

Fishers, City of
Rick Farnham
farnhamr@fishers.in.us

Fishers, City of
Jonathan Valenta
valentaj@fishers.in.us

WATER:

Citizens Energy Group
2150 Dr. Martin Luther King Jr. Street
Indianapolis, IN 46202
Scott Ritter
317-927-4434

Indiana-American Water Co.
153 North Emerson Avenue
Greenwood, IN 46143
Roy Francis
317-885-2417

SANITARY SEWER:

Engineering Dept.
Noblesville, City of
16 South 10th Street, Suite 155
Noblesville, IN 46060
Andrew Rodewald
317-776-6330

Hamilton Southeastern Utilities
11905 Lakeside Drive
Fishers, IN 46038
Taylor Navarre
317-577-1150

REVISIONS

SHEET NO.	DATE	REVISION

GENERAL NOTES

SHEET NO.	DESCRIPTION

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX & GENERAL NOTES
3-6	TYPICAL SECTIONS
7-9	SURVEY CONTROL & INTERCHANGE GEOMETRIC TIE-UP
10	REFERENCE TIES & BENCHMARK SUMMARY TABLE
11-65	MAINTENANCE OF TRAFFIC PLANS
66-77	PLAN & PROFILE - LINE "PR-A"
78-83	PLAN & PROFILE - LINE "PR-S-1-B"
84	PLAN & PROFILE - LINE "C"
85-88	RAMP PROFILES
89-92	MSE WALL DETAILS
93-97	GRADING PLANS
98-99	ROUNDABOUT GEOMETRIC TIE-UP
100	ROUNDABOUT GRADING PLAN
101-110	CURB RAMP DETAILS
111-120	SIGNING PLANS
121-128	LIGHTING PLANS
129-136	PAVEMENT MARKING PLANS
137	APPROACH TABLE AND SUMMARY OF QUANTITIES
138-146	STRUCTURE DATA TABLE
147	CROSS SECTIONS - NON-TYPICAL SECTION LOCATIONS
148-168	CROSS SECTIONS LINE "PR-A"
169-183	CROSS SECTIONS LINE "PR-S-1-B"
184-186	CROSS SECTIONS LINE "C"

TRAFFIC DATA	146TH ST	ALLISONVILLE RD	RAMP SWR	RAMP SER	RAMP NER	RAMP NWR
A.D.T. (2023)	37,102 - V.P.D.	15,675 - V.P.D.	5,694 V.P.D.	2,982 V.P.D.	2,644 V.P.D.	5,454 V.P.D.
A.D.T. (2043)	48,549 - V.P.D.	20,511 - V.P.D.	7,451 V.P.D.	3,902 V.P.D.	3,459 V.P.D.	7,136 V.P.D.
D.H.V. (2043)	7,596 - V.P.H.	3,209 - V.P.H.	1,358 V.P.H.	585 V.P.H.	583 V.P.H.	1,280 V.P.H.
DIRECTIONAL DISTRIBUTION	54% EB / 46% WB	58% NB / 42% SB	100%	100%	100%	100%
TRUCKS	4.45% A.A.D.T	3.75% A.A.D.T	14.4% A.A.D.T	11.4% A.A.D.T	14.6% A.A.D.T	13.5% A.A.D.T
DESIGN DATA						
DESIGN SPEED	45 M.P.H.	45 M.P.H.	35 M.P.H. / 25 M.P.H.	25 M.P.H. / 35 M.P.H.	35 M.P.H. / 25 M.P.H.	25 M.P.H. / 35 M.P.H.
PROJECT DESIGN CRITERIA	RECONSTRUCTION (4R)	RECONSTRUCTION (4R)	RECONSTRUCTION (4R)	RECONSTRUCTION (4R)	RECONSTRUCTION (4R)	RECONSTRUCTION (4R)
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL	PRINCIPAL ARTERIAL	INTERCHANGE RAMP	INTERCHANGE RAMP	INTERCHANGE RAMP	INTERCHANGE RAMP
RURAL/URBAN	URBAN (SUBURBAN)	URBAN (SUBURBAN)	URBAN (SUBURBAN)	URBAN (SUBURBAN)	URBAN (SUBURBAN)	URBAN (SUBURBAN)
TERRAIN	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL
ACCESS CONTROL	PARTIAL	PARTIAL	FULL	FULL	FULL	FULL

Indiana 811
Know what's below. Call before you dig.
CALL TWO WORKING DAYS BEFORE YOU DIG
Call 811 or 800-382-5544

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

STAGE 2 PLANS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

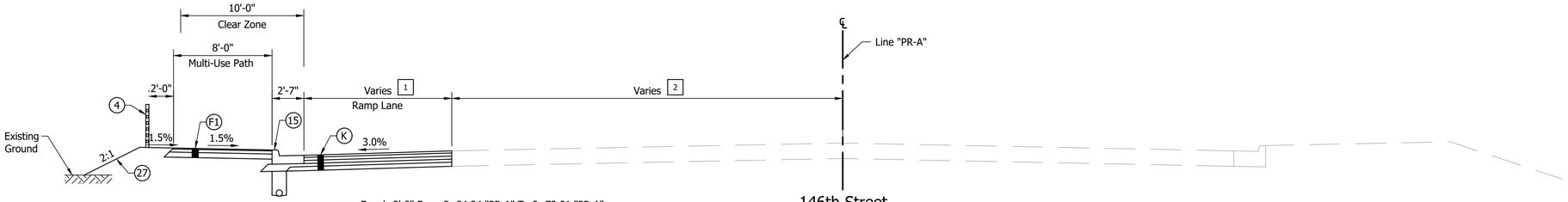
DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

INDEX & GENERAL NOTES

HORIZONTAL SCALE	BRIDGE FILE
N/A	-
VERTICAL SCALE	DESIGNATION
N/A	1801421
SURVEY BOOK	SHEETS
-	2 of 186
CONTRACT	PROJECT
R-41313	1801421

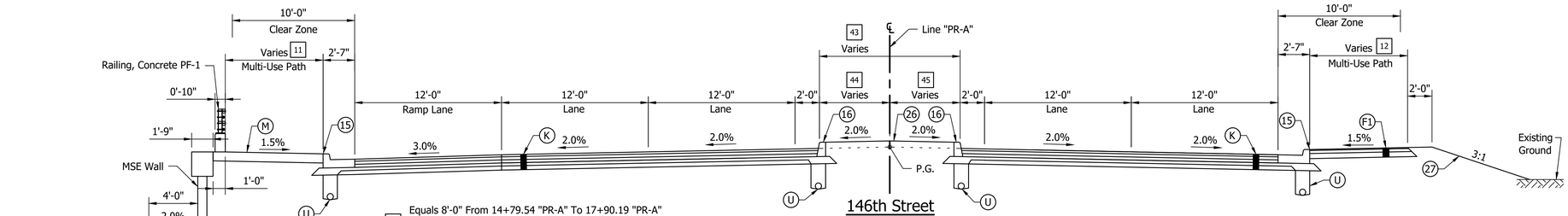
File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Index & General Notes.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



1 Equals 2'-0" From 8+84.24 "PR-A" To 9+72.01 "PR-A"
Varies 2'-0" to 12'-0" From 9+72.01 "PR-A" To 14+10.41 "PR-A"
Equals 12'-0" From 14+10.41 "PR-A" To 14+79.54 "PR-A"

2 Varies 29'-9" to 31'-9" From 8+84.24 "PR-A" To 9+72.01 "PR-A"
Equals 31'-9" From 9+72.01 "PR-A" To 14+79.54 "PR-A"

146th Street
From 8+84.24 "PR-A" To 14+79.54 "PR-A"



11 Equals 8'-0" From 14+79.54 "PR-A" To 17+90.19 "PR-A"
Varies 8'-0" to 8'-5" From 17+90.19 "PR-A" To 17+95.19 "PR-A"
Equals 8'-5" From 17+95.19 "PR-A" To 18+00.28 "PR-A"

43 Equals 11'-6" From 14+79.54 "PR-A" To 16+99.40 "PR-A"
Varies 11'-9" to 11'-10" From 16+26.53 "PR-A" To 17+85.89 "PR-A"
Equals 11'-10" From 17+85.89 "PR-A" To 18+00.28 "PR-A"

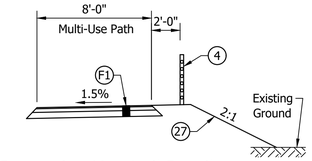
44 Equals 5'-9" From 14+79.54 "PR-A" To 16+26.53 "PR-A"
Varies 5'-9" to 4'-10" From 16+26.53 "PR-A" To 18+00.28 "PR-A"

146th Street
From 14+79.54 "PR-A" To 18+00.28 "PR-A"

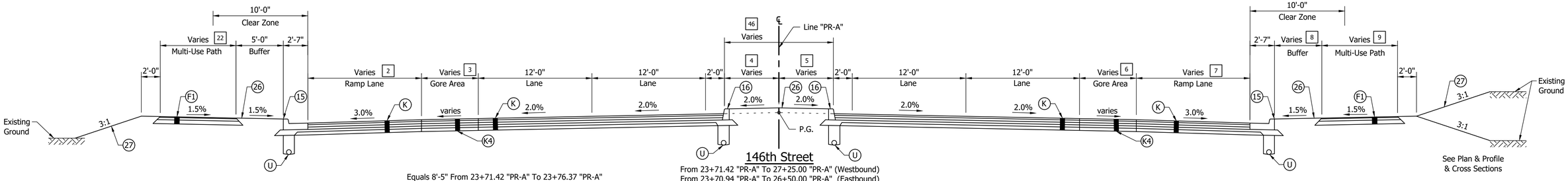
Paving Exception: 18+00.28 "PR-A" To 23+70.89 "PR-A"
(White River Bridge Limits By Others)

45 Equals 5'-9" From 14+79.54 "PR-A" To 16+26.53 "PR-A"
Varies 5'-9" to 7'-0" From 16+26.53 "PR-A" To 18+00.28 "PR-A"

12 Equals 8'-0" From 14+79.54 "PR-A" To 17+90.28 "PR-A"
Varies 8'-0" to 8'-5" From 17+90.28 "PR-A" To 17+95.28 "PR-A"
Equals 8'-5" From 17+95.28 "PR-A" To 18+00.28 "PR-A"



Pedestrian Handrail Detail
From 23+70.89 "PR-A" To 26+50.00 "PR-A" (Eastbound)



146th Street
From 23+71.42 "PR-A" To 27+25.00 "PR-A" (Westbound)
From 23+70.94 "PR-A" To 26+50.00 "PR-A" (Eastbound)

From 38+00.00 "PR-A" To 43+25.00 "PR-A" (Westbound)
From 38+00.00 "PR-A" To 43+25.00 "PR-A" (Eastbound)

22 Equals 8'-5" From 23+71.42 "PR-A" To 23+76.37 "PR-A"
Varies 8-5" to 8'-0" From 23+76.37 "PR-A" To 23+81.37 "PR-A"
Equals 8'-0" From 23+81.37 "PR-A" To 27+25.00 "PR-A"
Equals 8'-0" From 38+00.00 "PR-A" To 43+25.00 "PR-A"

2 Varies 12'-10" to 16'-0" From 23+71.42 "PR-A" To 25+86.92 "PR-A"
Equals 16'-0" From 25+86.92 "PR-A" To 27+25.00 "PR-A"
Varies 22'-6" to 16'-0" From 38+00.00 "PR-A" To 39+62.25 "PR-A"
Equals 16'-0" From 39+62.25 "PR-A" To 40+57.50 "PR-A"
Varies 16'-0" to 0'-0" From 40+57.50 "PR-A" To 42+42.19 "PR-A"

3 Varies 0'-5" to 15'-9" From 23+71.42 "PR-A" To 26+60.00 "PR-A"
Equals 15'-9" From 26+60.00 "PR-A" To 27+25.00 "PR-A"
Varies 22'-2" to 0'-0" From 38+00.00 "PR-A" To 40+57.50 "PR-A"

46 Equals 11'-10" From 23+71.42 "PR-A" To 23+97.17 "PR-A"
Varies 11'-10" to 6'-0" From 23+97.17 "PR-A" To 26+60.00 "PR-A"

4 Varies 5'-4" to 3'-0" From 23+71.42 "PR-A" To 26+60.00 "PR-A"
Equals 3'-0" From 26+60.00 "PR-A" To 27+25.00 "PR-A"
Equals 3'-0" From 38+00.00 "PR-A" To 43+25.00 "PR-A"

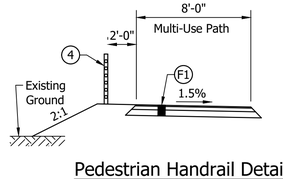
5 Varies 6'-6" to 3'-0" From 23+70.94 "PR-A" To 26+48.85 "PR-A"
Equals 3'-0" From 26+48.85 "PR-A" To 26+5000 "PR-A"
Equals 3'-0" From 38+00.00 "PR-A" To 43+25.00 "PR-A"

6 Varies 0'-0" to 36'-7" From 24+18.68 "PR-A" To 26+50.00 "PR-A"
Equals 15'-9" From 38+00.00 "PR-A" To 38+27.50 "PR-A"
Varies 15'-9" To 0'-0" From 38+27.50 "PR-A" To 41+46.81 "PR-A"

7 Varies 11'-10" to 16'-0" From 23+70.94 "PR-A" To 24+18.68 "PR-A"
Equals 16'-0" From 24+18.68 "PR-A" To 26+50.00 "PR-A"
Equals 16'-0" From 38+00.00 "PR-A" To 40+28.72 "PR-A"
Varies 16'-0" to 12'-0" From 40+28.72 "PR-A" To 41+85.84 "PR-A"
Equals 12'-0" From 41+85.84 "PR-A" To 42+70.00 "PR-A"
Varies 12'-0" to 10'-8" From 42+70.00 "PR-A" To 43+25.00 "PR-A"

8 Equals 0'-0" From 23+70.94 "PR-A" To 26+50.00 "PR-A"
Equals 5'-0" From 38+00.00 "PR-A" To 43+25.00 "PR-A"

9 Equals 8'-5" From 23+70.94 "PR-A" To 23+75.98 "PR-A"
Varies 8-5" to 8'-0" From 23+75.98 "PR-A" To 23+80.98 "PR-A"
Equals 8'-0" From 23+80.98 "PR-A" To 26+50.00 "PR-A"
Equals 8'-0" From 38+00.00 "PR-A" To 43+25.00 "PR-A"



Pedestrian Handrail Detail
From 23+71.42 "PR-A" To 27+25.00 "PR-A" (Westbound)

LEGEND

(F1) HMA For Sidewalk
140 #/Sys HMA Surface, Type B on
220 #/Sys HMA Intermediate, Type B, on
6" Compacted Aggregate, No. 53, on
Subgrade Treatment, Type III

(F2) Truck Apron
7" PCCP on
7" Compacted Aggregate, No. 53

(K) Full Depth HMA Pavement
165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on
330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on
385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on
4" Compacted Aggregate, No. 53, on
Geotextile for Pavement, Type IC, on
Subgrade Treatment, Type IC (12" Compacted Agg., No. 53 Base)

(K1) Widening with HMA, Type C
165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on
330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on
385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on
4" Compacted Aggregate, No. 53, on
Geotextile for Pavement, Type IC, on
Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)

(K2) HMA For Approaches, Type B
165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on
275 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on
440 #/Sys QC/QA-HMA, 3, 64, Base, 25.0 mm on
3" Compacted Aggregate, No. 53, Base on
Subgrade Treatment Type IC
(12" Compacted Aggregate, No. 53)

(K3) 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
(6" Compacted Aggregate, No. 53)

(M) Moment Slab, 18"

(R) Mill and Resurface
1.5" (Min.) Milling, Asphalt, then
165 #/Sys QC/QA-HMA, 4, 46, Surface, 9.5 mm - SMA

(S) Seed, Type U

(U) 6" Underdrain

(1) Concrete Barrier

(2) Concrete Barrier, Modified

(3) Railing, Concrete PF-1

(4) Pedestrian Handrail

(15) Curb and Gutter, Concrete

(16) Curb, Concrete

(17) Curb, Integral, Concrete

(19) Curb and Gutter, Roll Curb, Modified

(22) Center Curb, D, Concrete

(26) Sodding, Nursery

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

STAGE 2
PLANS

RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE

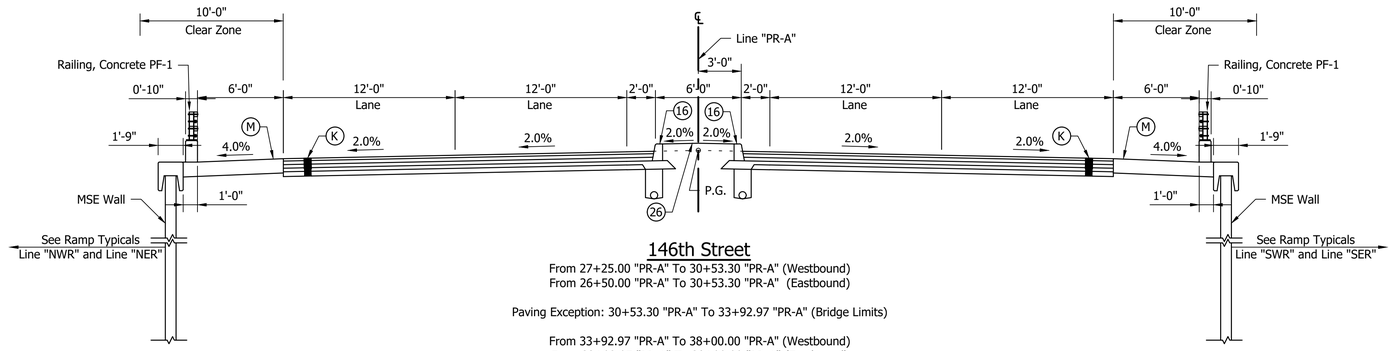
DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS &
MISCELLANEOUS DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	-
VERTICAL SCALE	DESIGNATION
AS SHOWN	1801421
SURVEY BOOK	SHEETS
-	3 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\RD\C3D\17-418_146th and Allisonville\Road\Dwg\Plans\Typical Sections.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

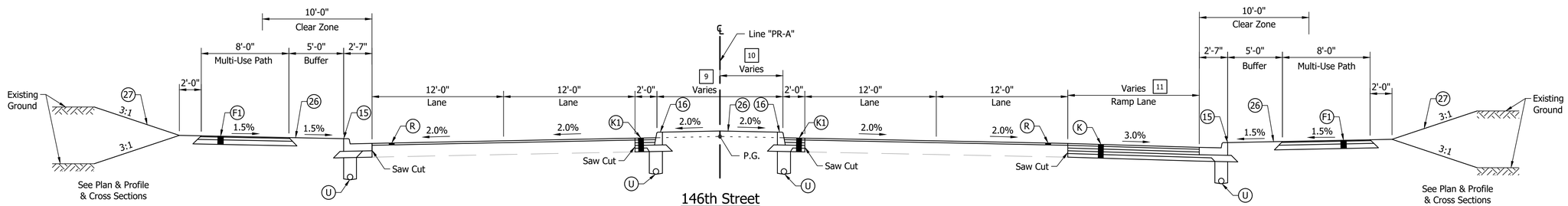


146th Street

From 27+25.00 "PR-A" To 30+53.30 "PR-A" (Westbound)
From 26+50.00 "PR-A" To 30+53.30 "PR-A" (Eastbound)

Paving Exception: 30+53.30 "PR-A" To 33+92.97 "PR-A" (Bridge Limits)

From 33+92.97 "PR-A" To 38+00.00 "PR-A" (Westbound)
From 33+92.97 "PR-A" To 38+00.00 "PR-A" (Eastbound)



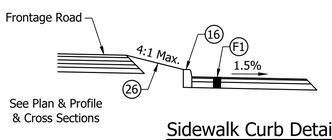
146th Street

From 43+25.00 "PR-A" To 48+96.65 "PR-A" (Westbound)
From 43+25.00 "PR-A" To 48+79.32 "PR-A" (Eastbound)

9 Equals 6'-0" From 43+25.00 "PR-A" To 47+84.11 "PR-A"
Varies 6'-0" to 7'-6" From 47+84.11 "PR-A" To 48+96.65 "PR-A"

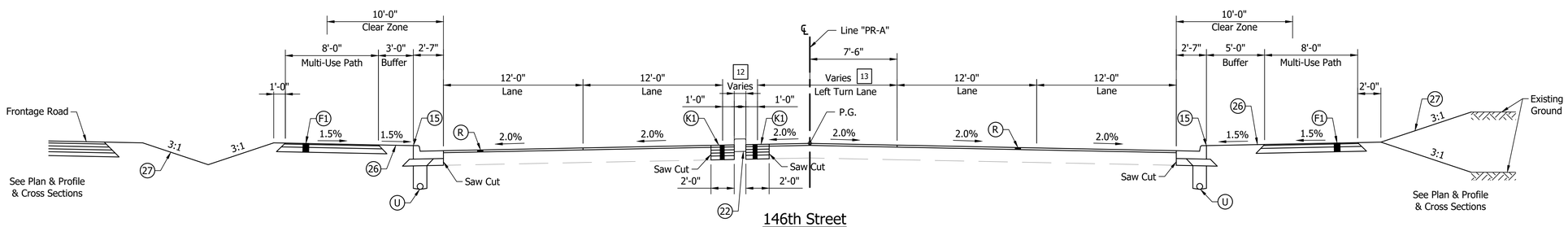
10 Equals 3'-0" From 43+25.00 "PR-A" To 48+79.32 "PR-A"
Varies 3'-0" to 2'-0" From 48+79.32 "PR-A" To 48+96.65 "PR-A"

11 Varies 10'-8" to 0'-0" From 43+25.00 "PR-A" To 47+59.10 "PR-A"



Sidewalk Curb Detail

From 44+32.65 "PR-A" To 48+96.65 "PR-A" (Westbound)



146th Street

From 48+96.65 "PR-A" To 51+55.00 "PR-A" (Westbound)
From 48+79.32 "PR-A" To 51+55.00 "PR-A" (Eastbound)

12 Varies 7'-6" to 1'-0" From 48+96.65 "PR-A" To 49+72.63 "PR-A"
Equals 1'-0" From 49+72.63 "PR-A" To 50+75.00 "PR-A"

13 Varies 0'-0" to 12'-0" From 48+79.32 "PR-A" To 49+91.74 "PR-A"
Equals 12'-0" From 49+91.74 "PR-A" To 51+55.00 "PR-A"

LEGEND

F1 HMA For Sidewalk
140 #/Sys HMA Surface, Type B on
220 #/Sys HMA Intermediate, Type B, on
6" Compacted Aggregate, No. 53, on
Subgrade Treatment, Type III

F2 Truck Apron
7" PCCP on
7" Compacted Aggregate, No. 53

K Full Depth HMA Pavement
165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on
330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on
385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on
4" Compacted Aggregate, No. 53, on
Geotextile for Pavement, Type IC, on
Subgrade Treatment, Type IC (12" Compacted Agg., No. 53 Base)

K1 Widening with HMA, Type C
165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on
330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on
385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on
4" Compacted Aggregate, No. 53, on
Geotextile for Pavement, Type IC, on
Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)

K2 HMA For Approaches, Type B
165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on
275 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on
440 #/Sys QC/QA-HMA, 3, 64, Base, 25.0 mm on
3" Compacted Aggregate, No. 53, Base on
Subgrade Treatment Type IC
(12" Compacted Aggregate, No. 53)

K3 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
(6" Compacted Aggregate, No. 53)

M Moment Slab, 18"

R Mill and Resurface
1.5" (Min.) Milling, Asphalt, then
165 #/Sys QC/QA-HMA, 4, 46, Surface, 9.5 mm - SMA

S Seed, Type U

U 6" Underdrain

3 Railing, Concrete PF-1

4 Pedestrian Handrail

1 Concrete Barrier

2 Concrete Barrier, Modified

15 Curb and Gutter, Concrete

16 Curb, Concrete

17 Curb, Integral, Concrete

19 Curb and Gutter, Roll Curb, Modified

22 Center Curb, D, Concrete

26 Sodding, Nursery

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

STAGE 2
PLANS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

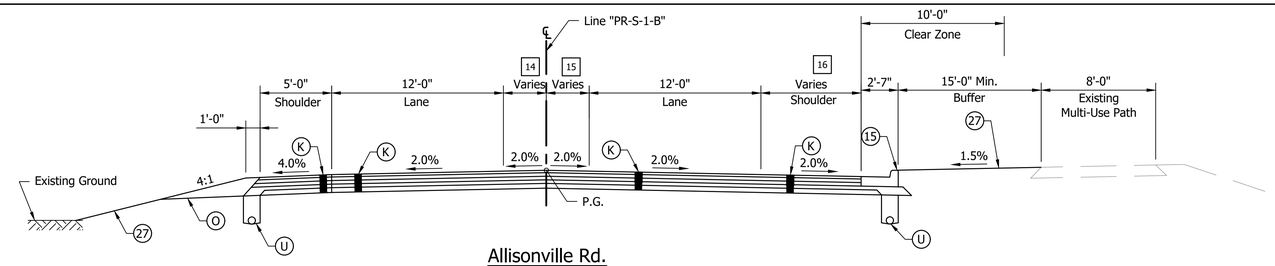
DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS &
MISCELLANEOUS DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	-
VERTICAL SCALE	DESIGNATION
AS SHOWN	1801421
SURVEY BOOK	SHEETS
-	4 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\RD\CD\17-418_146th and Allisonville\Road\Dwg\Plans\Typical Sections.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



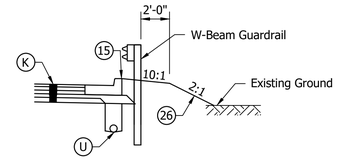
Allisonville Rd.

From 51+39.00 "PR-S-1-B" To 52+96.40 "PR-S-1-B"

14 Varies 0'-0" to 6'-0" From 51+39.00 "PR-S-1-B" To 52+96.40 "PR-S-1-B"

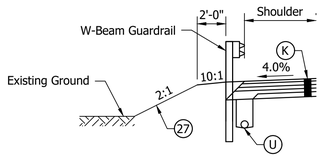
15 Varies 0'-0" to 3'-6" From 51+39.00 "PR-S-1-B" To 52+96.40 "PR-S-1-B"

16 Varies 5'-6" to 2'-0" From 51+39.00 "PR-S-1-B" To 52+96.40 "PR-S-1-B"



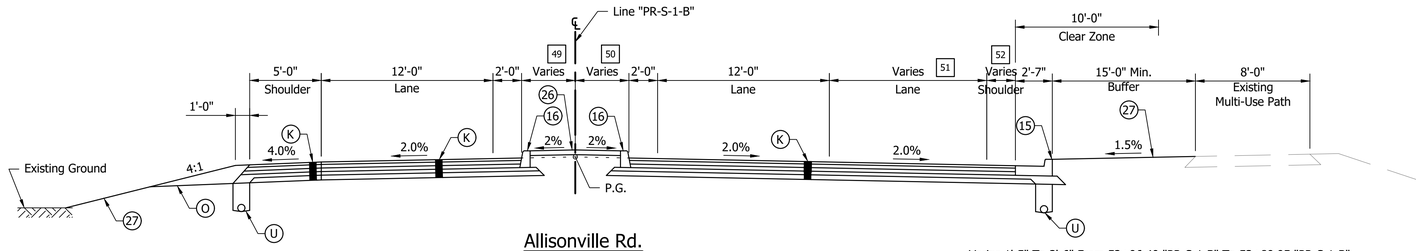
Guardrail Detail

From 52+55.00 "PR-S-1-B" To 54+35.00 "PR-S-1-B"



Guardrail Detail

From 53+45.00 "PR-S-1-B" To 54+15.00 "PR-S-1-B"



Allisonville Rd.

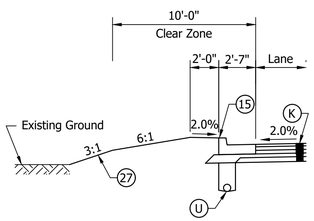
From 52+96.40 "PR-S-1-B" To 56+02.78 "PR-S-1-B"

49 Varies 4'-0" To 15'-6" From 52+96.40 "PR-S-1-B" To 55+40.49 "PR-S-1-B"
Equals 15'-6" From 55+40.49 "PR-S-1-B" To 56+02.78 "PR-S-1-B"

50 Varies 1'-5" To 3'-6" From 52+96.40 "PR-S-1-B" To 53+89.95 "PR-S-1-B"
Equals 3'-6" From 53+89.95 "PR-S-1-B" To 69+81.57 "PR-S-1-B"
Varies 3'-6" To 0'-0" From 55+97.81 "PR-S-1-B" To 56+02.78 "PR-S-1-B"

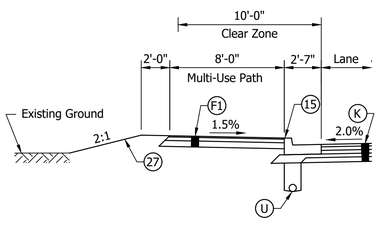
51 Equals 0'-0" From 52+96.40 "PR-S-1-B" To 53+89.95 "PR-S-1-B"
Varies 0'-0" To 12'-0" From 53+89.95 "PR-S-1-B" To 55+07.15 "PR-S-1-B"
Equals 12'-0" From 55+07.15 "PR-S-1-B" To 56+02.78 "PR-S-1-B"

52 Varies 2'-0" To 0'-0" From 52+96.40 "PR-S-1-B" To 53+89.95 "PR-S-1-B"



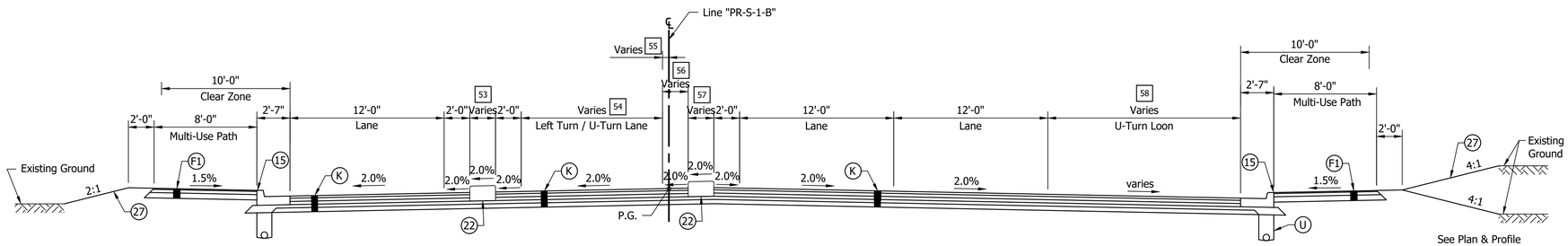
Edge Condition Detail

From 54+96.38 "PR-S-1-B" To 55+80.00 "PR-S-1-B"



Edge Condition Detail

From 55+80.00 "PR-S-1-B" To 56+02.78 "PR-S-1-B"



See Plan & Profile
& Cross Sections

Allisonville Rd.

From 56+02.78 "PR-S-1-B" To 57+83.34 "PR-S-1-B"

53 Varies 15'-6" To 2'-0" From 56+02.78 "PR-S-1-B" To 56+27.83 "PR-S-1-B"
Equals 2'-0" From 56+27.83 "PR-S-1-B" To 57+42.00 "PR-S-1-B"
Equals 0'-0" From 57+42.00 "PR-S-1-B" To 57+83.34 "PR-S-1-B"

54 Varies 0'-0" To 11'-0" From 56+02.78 "PR-S-1-B" To 56+27.83 "PR-S-1-B"
Equals 11'-0" From 56+27.83 "PR-S-1-B" To 57+59.32 "PR-S-1-B"
Varies 11'-0" To 8'-9" From 57+59.32 "PR-S-1-B" To 57+83.34 "PR-S-1-B"

55 Equals 0'-6" From 56+02.78 "PR-S-1-B" To 56+94.24 "PR-S-1-B"
Varies 0'-6" To 0-0" From 56+94.24 "PR-S-1-B" To 57+83.34 "PR-S-1-B"

56 Equals 4'-0" From 56+02.78 "PR-S-1-B" To 56+48.00 "PR-S-1-B"
Equals 2'-0" From 56+48.00 "PR-S-1-B" To 57+83.34 "PR-S-1-B"

57 Equals 0'-0" From 56+02.78 "PR-S-1-B" To 56+48.00 "PR-S-1-B"
Equals 2'-0" From 56+48.00 "PR-S-1-B" To 56+94.24 "PR-S-1-B"
Varies 2'-0" To 1'-6" From 56+94.24 "PR-S-1-B" To 57+59.44 "PR-S-1-B"
Varies 1'-6" To 3'-6" From 57+59.44 "PR-S-1-B" To 57+83.34 "PR-S-1-B"

58 Varies 33'-5" To 1'-8" From 56+77.63 "PR-S-1-B" To 57+83.34 "PR-S-1-B"

LEGEND

(F1) HMA For Sidewalk
140 #/Sys HMA Surface, Type B on
220 #/Sys HMA Intermediate, Type B, on
6" Compacted Aggregate, No. 53, on
Subgrade Treatment, Type III

(F2) Truck Apron
7" PCCP on
7" Compacted Aggregate, No. 53

(K) Full Depth HMA Pavement
165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on
330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on
385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on
4" Compacted Aggregate, No. 53, on
Geotextile for Pavement, Type IC, on
Subgrade Treatment, Type IC (12" Compacted Agg., No. 53 Base)

(K1) Widening with HMA, Type C
165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on
330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on
385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on
4" Compacted Aggregate, No. 53, on
Geotextile for Pavement, Type IC, on
Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)

(K2) HMA For Approaches, Type B
165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on
275 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on
440 #/Sys QC/QA-HMA, 3, 64, Base, 25.0 mm on
3" Compacted Aggregate, No. 53, Base on
Subgrade Treatment Type IC
(12" Compacted Aggregate, No. 53)

(K3) 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
(6" Compacted Aggregate, No. 53)

(M) Moment Slab, 18"

(R) Mill and Resurface
1.5" (Min.) Milling, Asphalt, then
165 #/Sys QC/QA-HMA, 4, 46, Surface, 9.5 mm - SMA

(S) Seed, Type U

(U) 6" Underdrain

(1) Concrete Barrier

(2) Concrete Barrier, Modified

(3) Railing, Concrete PF-1

(4) Pedestrian Handrail

(15) Curb and Gutter, Concrete

(16) Curb, Concrete

(17) Curb, Integral, Concrete

(19) Curb and Gutter, Roll Curb, Modified

(22) Center Curb, D, Concrete

(26) Sodding, Nursery

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

STAGE 2
PLANS

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

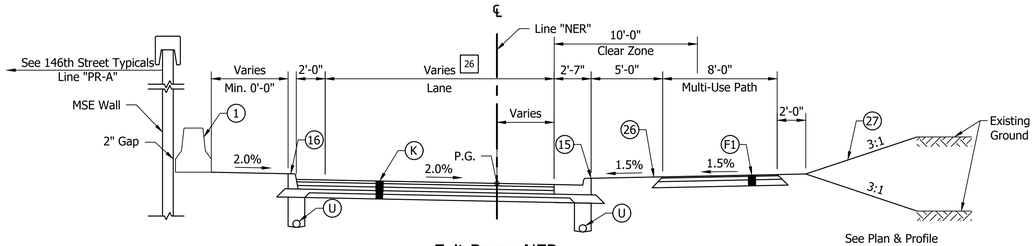
DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS &
MISCELLANEOUS DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	-
VERTICAL SCALE	DESIGNATION
AS SHOWN	1801421
SURVEY BOOK	SHEETS
-	5 of 186
CONTRACT	PROJECT
R-41313	1801421

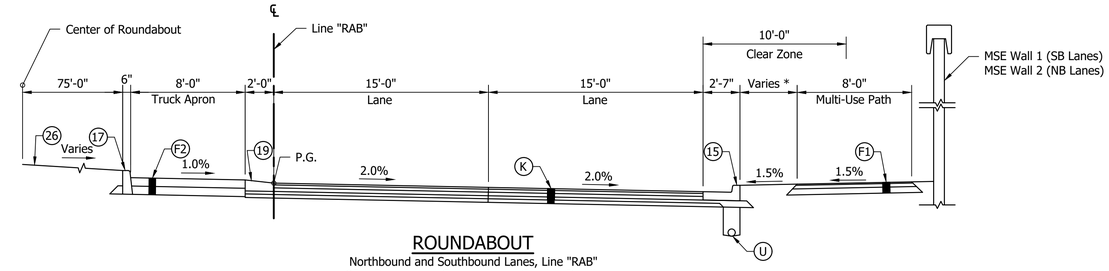
File Name: P:\RDV\C3D\17-418_146th and Allisonville\Road\Dwg\Plans\Typical Sections.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



Exit Ramp NER

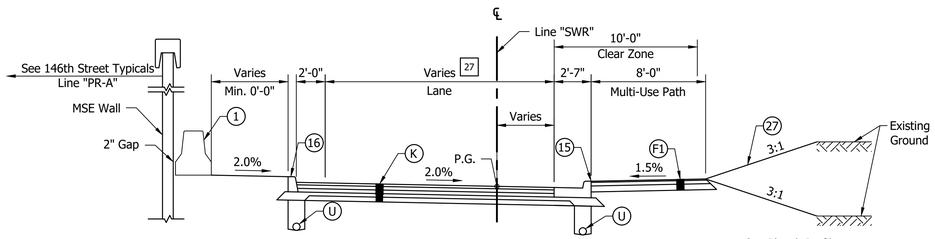
From 302+56.61 "NER" To 307+56.74 "NER"

26 Varies 18'-0" to 30'-0" From 302+56.61 "NER" To 307+56.74 "NER"



ROUNDABOUT

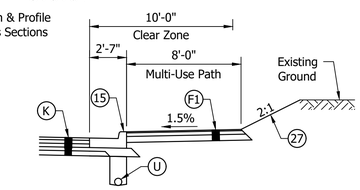
Northbound and Southbound Lanes, Line "RAB"
*See Roundabout Geometric and Grading Details



Exit Ramp SWR

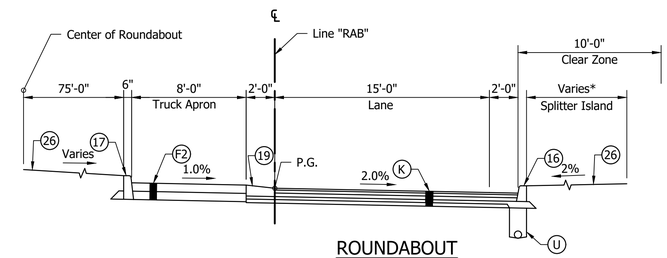
From 102+46.62 "SWR" To 107+25.39 "SWR"

27 Varies 16'-0" to 30'-0" From 102+46.62 "SWR" To 107+25.39 "SWR"



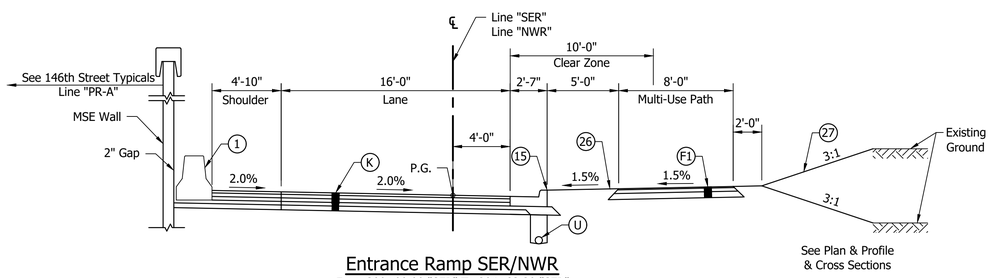
Edge Condition Detail

From 103+50.00 "SWR" To 105+50.00 "SWR"



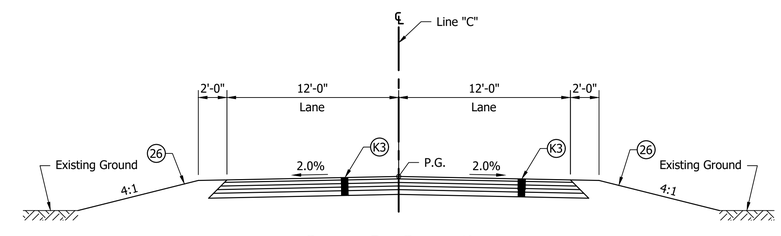
ROUNDABOUT

Eastbound and Westbound Lanes, Line "RAB"
*See Roundabout Geometric and Grading Details



Entrance Ramp SER/NWR

From 200+00.00 "SER" To 204+82.20 "SER"
From 400+00.00 "NWR" To 404+02.57 "NWR"



Sowers Dr. Connection

From 10+60.76 "C" To 14+55.33 "C"

LEGEND

(F1) HMA For Sidewalk
140 #/Sys HMA Surface, Type B on
220 #/Sys HMA Intermediate, Type B, on
6" Compacted Aggregate, No. 53, on
Subgrade Treatment, Type III

(F2) Truck Apron
7" PCCP on
7" Compacted Aggregate, No. 53

(K) Full Depth HMA Pavement
165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on
330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on
385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on
4" Compacted Aggregate, No. 53, on
Geotextile for Pavement, Type IC, on
Subgrade Treatment, Type IC (12" Compacted Agg., No. 53 Base)

(K1) Widening with HMA, Type C
165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on
330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on
385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on
4" Compacted Aggregate, No. 53, on
Geotextile for Pavement, Type IC, on
Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)

(K2) HMA For Approaches, Type B
165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on
275 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on
440 #/Sys QC/QA-HMA, 3, 64, Base, 25.0 mm on
3" Compacted Aggregate, No. 53, Base on
Subgrade Treatment Type IC
(12" Compacted Aggregate, No. 53)

(K3) 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
(6" Compacted Aggregate, No. 53)

(M) Moment Slab, 18"

(R) Mill and Resurface
1.5" (Min.) Milling, Asphalt, then
165 #/Sys QC/QA-HMA, 4, 46, Surface, 9.5 mm - SMA

(S) Seed, Type U

(U) 6" Underdrain

(1) Concrete Barrier

(2) Concrete Barrier, Modified

(3) Railing, Concrete PF-1

(4) Pedestrian Handrail

(15) Curb and Gutter, Concrete

(16) Curb, Concrete

(17) Curb, Integral, Concrete

(19) Curb and Gutter, Roll Curb, Modified

(22) Center Curb, D, Concrete

(26) Sodding, Nursery

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

STAGE 2
PLANS

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

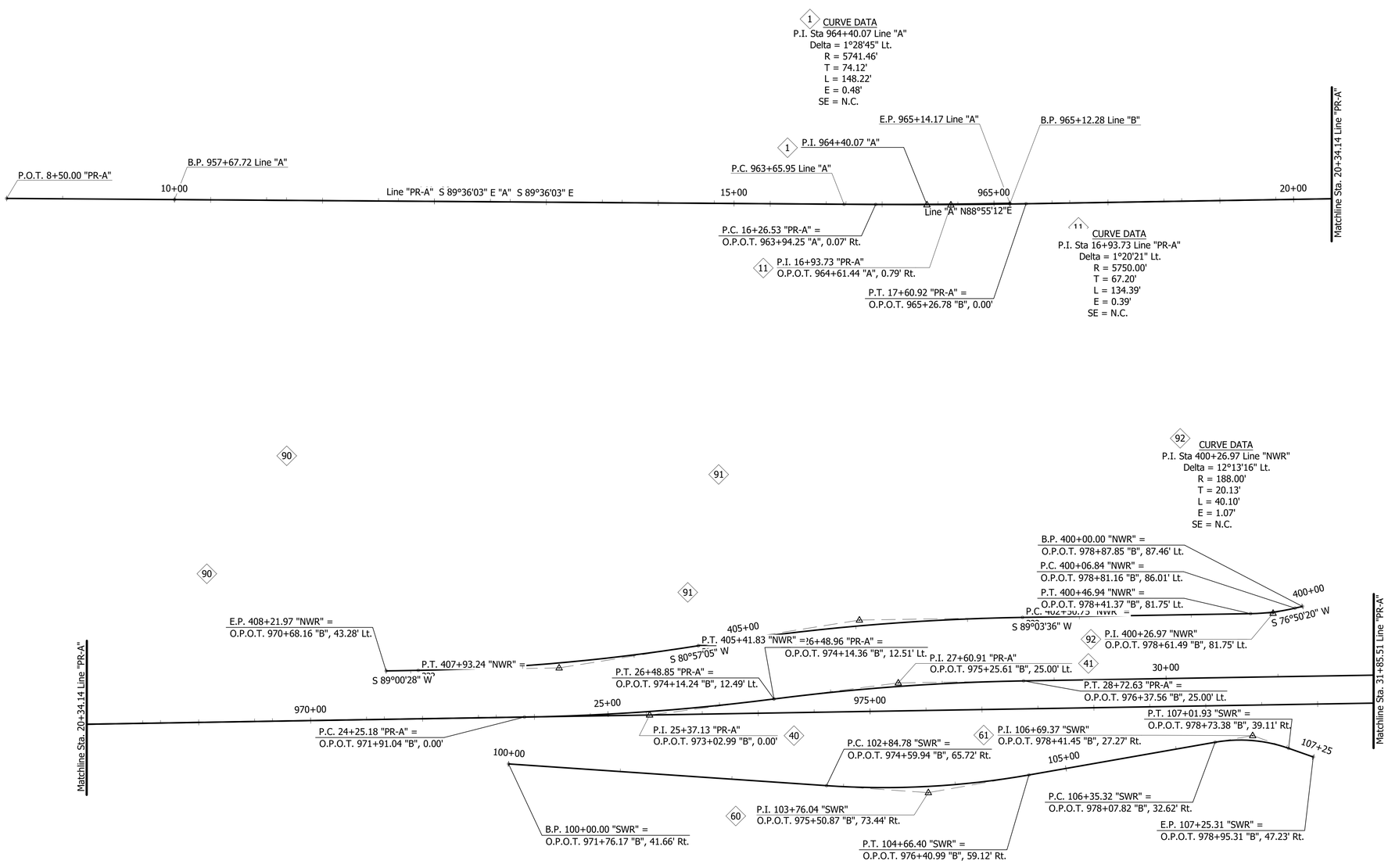
DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS &
MISCELLANEOUS DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	-
VERTICAL SCALE	DESIGNATION
AS SHOWN	1801421
SURVEY BOOK	SHEETS
-	6 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\RD\C3D\17-418_146th and Allisonville\Road\Dwg\Plans\Typical Sections.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



40 CURVE DATA
P.I. Sta 25+37.13 Line "PR-A"
Delta = 6°24'27" Lt.
R = 2000.00'
T = 111.95'
L = 223.67'
E = 3.13'
SE = N.C.

41 CURVE DATA
P.I. Sta 27+60.91 Line "PR-A"
Delta = 6°24'27" Rt.
R = 2000.00'
T = 111.95'
L = 223.67'
E = 3.13'
SE = N.C.

60 CURVE DATA
P.I. Sta 103+76.04 Line "SWR"
Delta = 13°52'29" Lt.
R = 750.00'
T = 91.26'
L = 181.62'
E = 5.53'
SE = N.C.

61 CURVE DATA
P.I. Sta 106+69.37 Line "SWR"
Delta = 29°21'35" Rt.
R = 130.00'
T = 34.06'
L = 66.61'
E = 4.39'
SE = N.C.

NOTES:
For Roundabout Alignment Information,
See Roundabout Geometric Tie-Up Sheets.

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

STAGE 2 PLANS

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

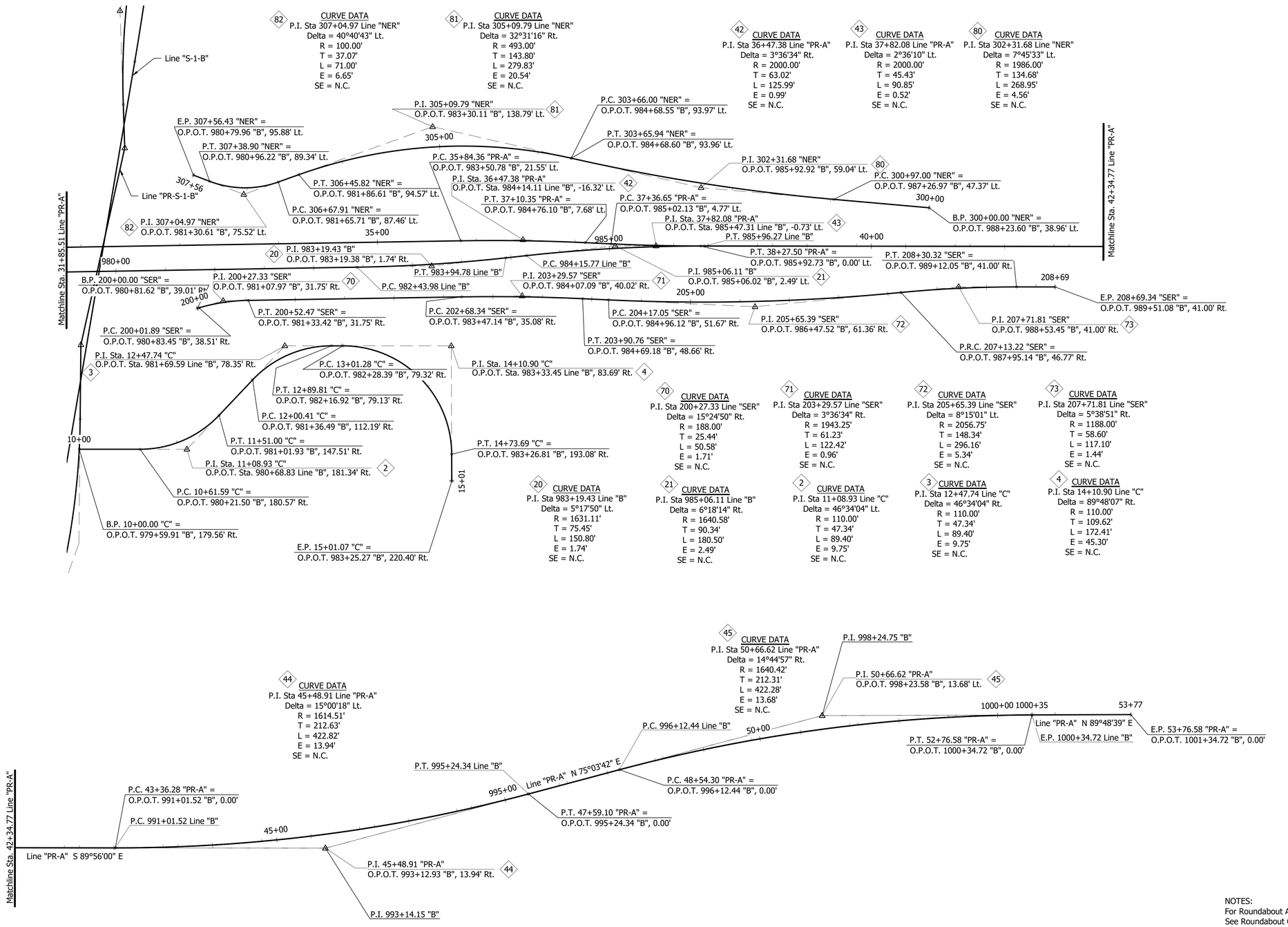
DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

SURVEY CONTROL &
GEOMETRIC TIE-UP DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	-
VERTICAL SCALE	DESIGNATION
N/A	1801421
SURVEY BOOK	SHEETS
-	7 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Survey Control & Geometric Tie-Up.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



NOTES:
For Roundabout Alignment Information,
See Roundabout Geometric Tie-Up Sheets.

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

STAGE 2 PLANS

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

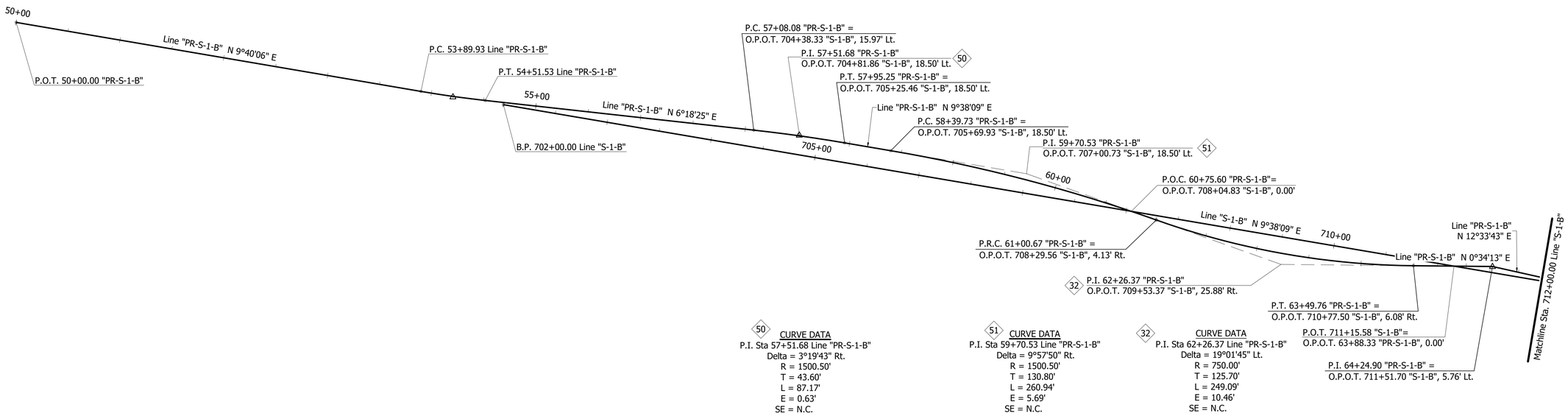
DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA DEPARTMENT OF TRANSPORTATION

SURVEY CONTROL & GEOMETRIC TIE-UP DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	-
VERTICAL SCALE	DESIGNATION
N/A	1801421
SURVEY BOOK	SHEETS
-	8 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Survey Control & Geometric Tie-Up.dwg Plot Date: 1/10/2022 Plotted By: Hunter
Whitten



50 CURVE DATA
P.I. Sta 57+51.68 Line "PR-S-1-B"
Delta = 3°19'43" Rt.
R = 1500.50'
T = 43.60'
L = 87.17'
E = 0.63'
SE = N.C.

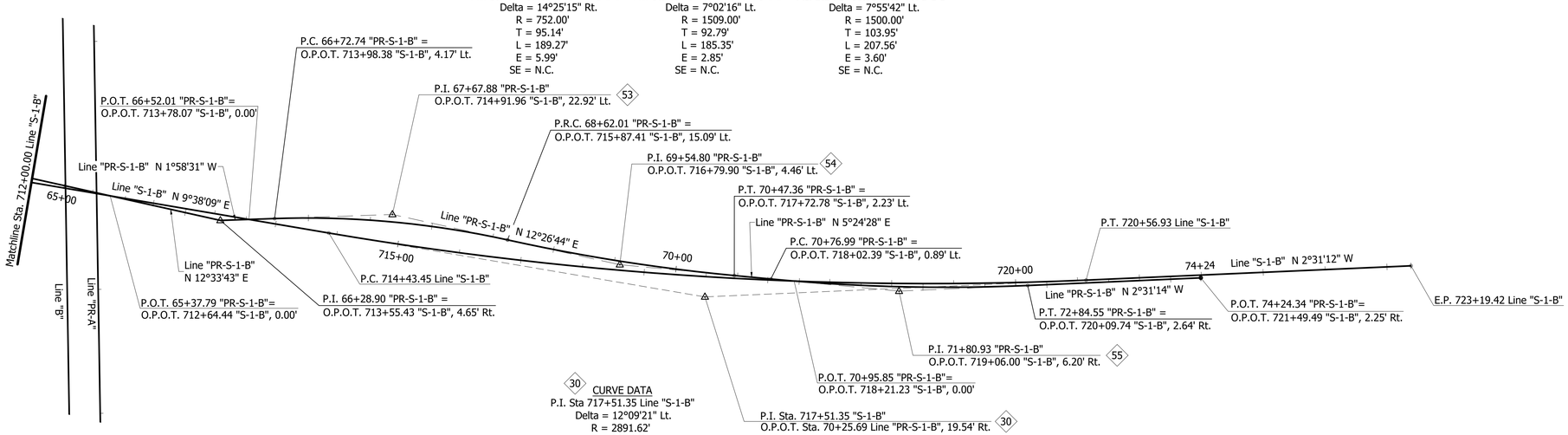
51 CURVE DATA
P.I. Sta 59+70.53 Line "PR-S-1-B"
Delta = 9°57'50" Rt.
R = 1500.50'
T = 130.80'
L = 260.94'
E = 5.69'
SE = N.C.

32 CURVE DATA
P.I. Sta 62+26.37 Line "PR-S-1-B"
Delta = 19°01'45" Lt.
R = 750.00'
T = 125.70'
L = 249.09'
E = 10.46'
SE = N.C.

53 CURVE DATA
P.I. Sta 67+67.88 Line "PR-S-1-B"
Delta = 14°25'15" Rt.
R = 752.00'
T = 95.14'
L = 189.27'
E = 5.99'
SE = N.C.

54 CURVE DATA
P.I. Sta 69+54.80 Line "PR-S-1-B"
Delta = 7°02'16" Lt.
R = 1509.00'
T = 92.79'
L = 185.35'
E = 2.85'
SE = N.C.

55 CURVE DATA
P.I. Sta 71+80.93 Line "PR-S-1-B"
Delta = 7°55'42" Lt.
R = 1500.00'
T = 103.95'
L = 207.56'
E = 3.60'
SE = N.C.



30 CURVE DATA
P.I. Sta 717+51.35 Line "S-1-B"
Delta = 12°09'21" Lt.
R = 2891.62'
T = 307.90'
L = 613.48'
E = 16.35'
SE = N.C.

NOTES:
For Roundabout Alignment Information,
See Roundabout Geometric Tie-Up Sheets.

File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Survey Control & Geometric Tie-Up.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

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

STAGE 2 PLANS

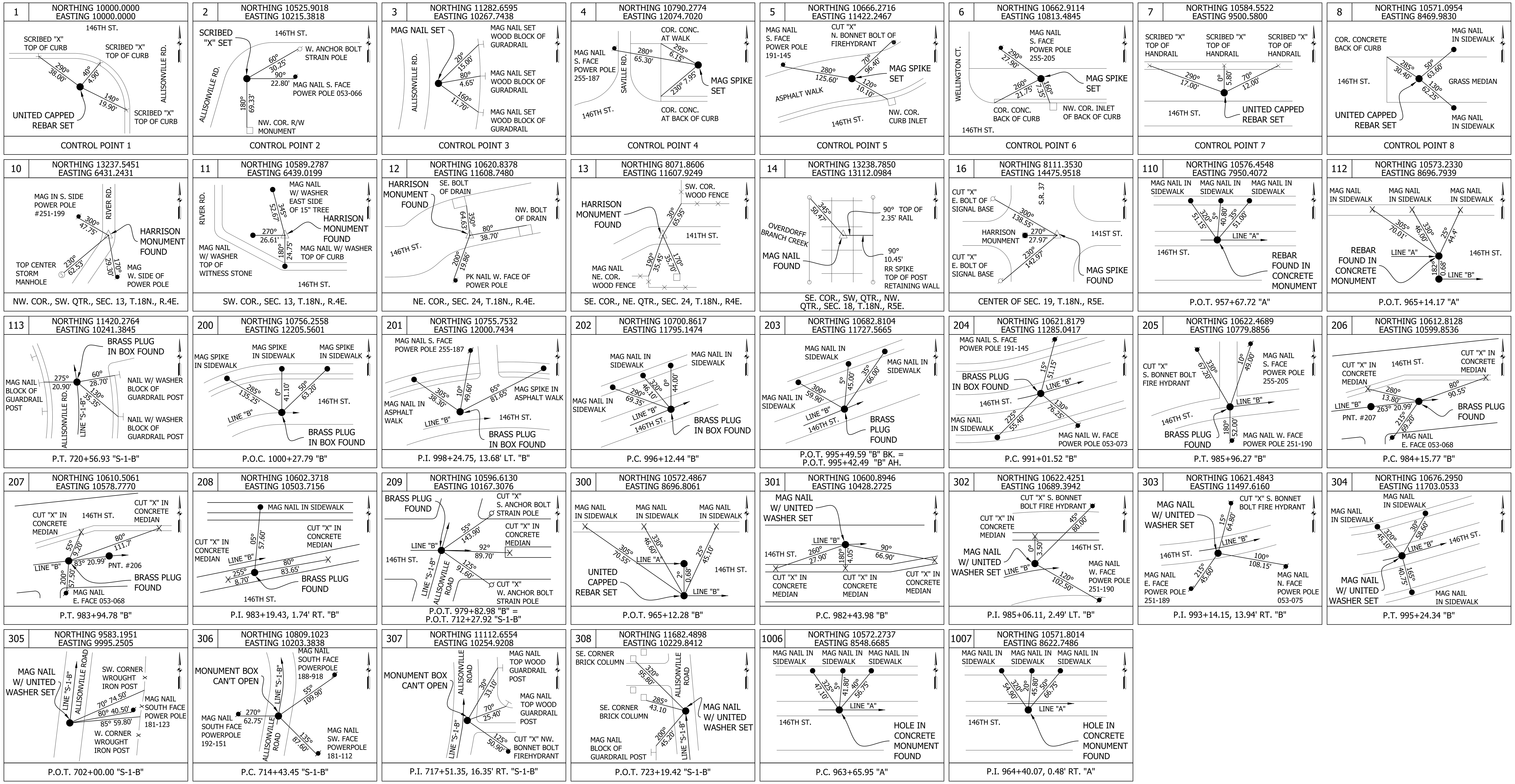
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

SURVEY CONTROL &
GEOMETRIC TIE-UP DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	-
VERTICAL SCALE	DESIGNATION
N/A	1801421
SURVEY BOOK	SHEETS
-	9 of 186
CONTRACT	PROJECT
R-41313	1801421



BENCHMARK SUMMARY TABLE

CONTROL POINT	(LOCAL, GROUND SYSTEM) NORTHING	EASTING	ADJ. DIFF. LEVELED ELEV. (N.A.V.D. 88 - FEET)	DESCRIPTION	BENCHMARK	ADJ. DIFF. LEVELED ELEV. (N.A.V.D. 88 - FEET)	POINT NUMBER	DESCRIPTION
CP 1	10000.0000	10000.0000	786.051	UNITED CONTROL CAPPED REBAR SET	TBM 2	*810.985	102	CUT "X" FOUND IN THE TOP OF A CURB INLET ALONG THE NORTH SIDE OF 146TH STREET ±65 FEET EAST OF THE CENTERLINE OF ROSEBUD DRIVE.
CP 2	10525.9018	10215.3818	784.699	MAG SPIKE SET	TBM 3	*798.682	1000	CUT "X" FOUND IN THE NORTH BONNET BOLT OF A FIRE HYDRANT ALONG THE NORTH SIDE OF 146TH STREET ±400 FEET EAST OF KENSINGTON DRIVE.
CP 3	11282.6595	10267.7438	773.018	MAG SPIKE SET	TBM 4	*782.452	104	CUT "X" FOUND IN THE TOP OF A CURB INLET ALONG THE NORTH SIDE OF 146TH STREET.
CP 4	10790.2774	12074.7020	805.238	MAG SPIKE SET	TBM 5	*773.175	105	CUT SQUARE FOUND ON THE TOP OF THE SOUTH CONCRETE RAIL AT THE EAST END OF THE 146TH STREET BRIDGE OVER THE WHITE RIVER.
CP 5	10666.2716	11422.2467	794.064	MAG SPIKE SET	TBM 106	785.255	1001	SOUTH ANCHOR BOLT OF A STRAIN POLE AT THE NORTHEAST CORNER OF 146TH STREET AND ALLISONVILLE ROAD.
CP 6	10662.9114	10813.4845	781.039	MAG SPIKE SET	TBM 107	763.503	6009	HAMILTON COUNTY GEODETIC CONTROL DISK (NO NUMBER) FOUND 1 FOOT EAST OF THE WEST END OF THE SOUTHWEST WINGWALL OF THE 146TH STREET BRIDGE OVER THE WHITE RIVER.
CP 7	10584.5522	9500.5800	775.127	UNITED CONTROL CAPPED REBAR SET	TBM 108	785.842	8910	MAG SPIKE SET IN THE WEST FACE OF POWER POLE #181-122 AT THE NORTHEAST CORNER OF ALLISONVILLE ROAD AND HARRISON POINTE.
CP 8	10571.0954	8469.9830	761.653	UNITED CONTROL CAPPED REBAR SET	TBM 109	779.072	6082	MAG SPIKE SET IN THE WEST FACE OF POWER POLE #181-108 AT THE NORTHEAST CORNER OF KENSINGTON DRIVE AND ALLISONVILLE ROAD.

*From prior 146th Street survey. Held to establish the vertical datum of this project.

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

STAGE 2 PLANS

RECOMMENDED FOR APPROVAL ______ DESIGN ENGINEER ______ DATE

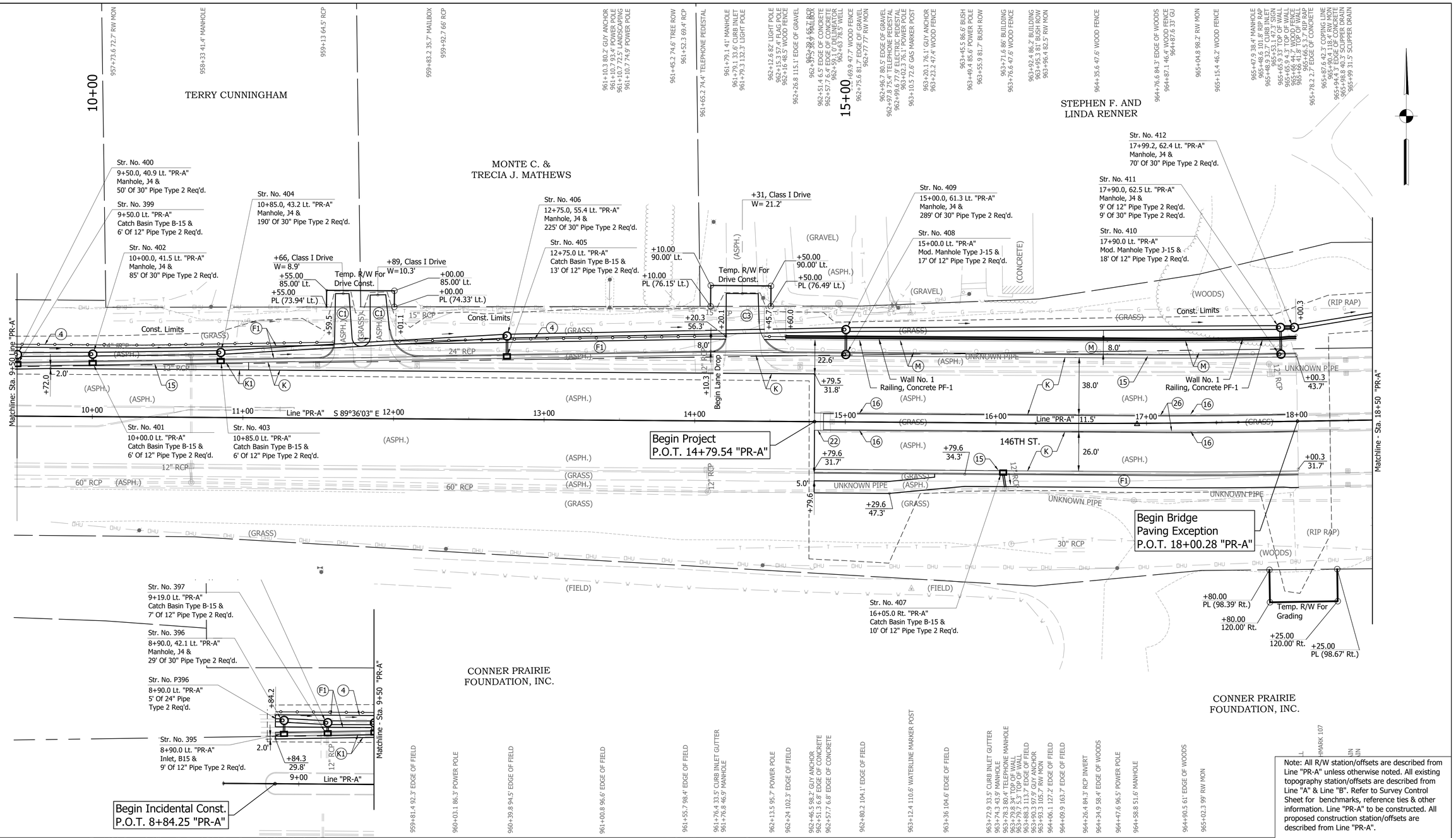
DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA DEPARTMENT OF TRANSPORTATION

REFERENCE TIES & BENCHMARK SUMMARY TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	-
VERTICAL SCALE	DESIGNATION
N/A	1801421
SURVEY BOOK	SHEETS
-	10 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Ref-Ties & Benchmarks.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



Note: All R/W station/offsets are described from Line "PR-A" unless otherwise noted. All existing topography station/offsets are described from Line "A" & Line "B". Refer to Survey Control Sheet for benchmarks, reference ties & other information. Line "PR-A" to be constructed. All proposed construction station/offsets are described from Line "PR-A".

LEGEND

(C1) PCCP For Approaches, 6" on 6" Dense Graded Subbase on Subgrade Treatment Type II (6" Coarse Aggregate, No. 53)

(C3) PCCP For Approaches, 9" on 6" Dense Graded Subbase, on Geogrid Type IB, on Subgrade Treatment Type II (6" Coarse Aggregate, No. 53)

(K) **146th Street & Allisonville Road (Mainline, Ramps, & Shoulders)**
Full Depth HMA Pavement Consisting of
165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on
330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on
385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on
4" Compacted Aggregate, No. 53 on
Geotextile for Pavement, Type IB on
Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)

(K1) Widening with HMA, Type C
165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on
330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on
385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on
4" Compacted Aggregate, No. 53 on
Geotextile for Pavement, Type IB on
Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)

(K2) HMA For Approaches, Type B
165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on
275 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on
440 #/Sys QC/QA-HMA, 3, 64, Base, 25.0 mm on
3" Compacted Aggregate, No. 53 on
Subgrade Treatment, Type IC
(12" Compacted Aggregate, No. 53)

(K3) 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 (6" Compacted Aggregate, No. 53)

(F) Sidewalk, Concrete

(F1) HMA For Sidewalk

(F2) Truck Apron
7" PCCP on
7" Compacted Aggregate, No. 53

(M) Moment Slab

(R) Mill, Asphalt, 1.5"
165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm

(S) Seed, Type U

(W) Guardrail, MGS, W-Beam, 6'-3" Spa.

(1) Concrete Barrier

(2) Concrete Barrier Modified

(3) Railing, Concrete PF-1

(4) Pedestrian Handrail

(15) Curb & Gutter, Concrete

(16) Curb, Concrete

(17) Curb, Integral, Concrete

(19) Curb and Gutter, Roll Curb, Modified

(22) Center Curb, D, Concrete

(26) Sodding, Nursery

(CR) Curb Ramp, Concrete

(S) Sidewalk Elevation Transition

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

STAGE 2 PLANS

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: AJA

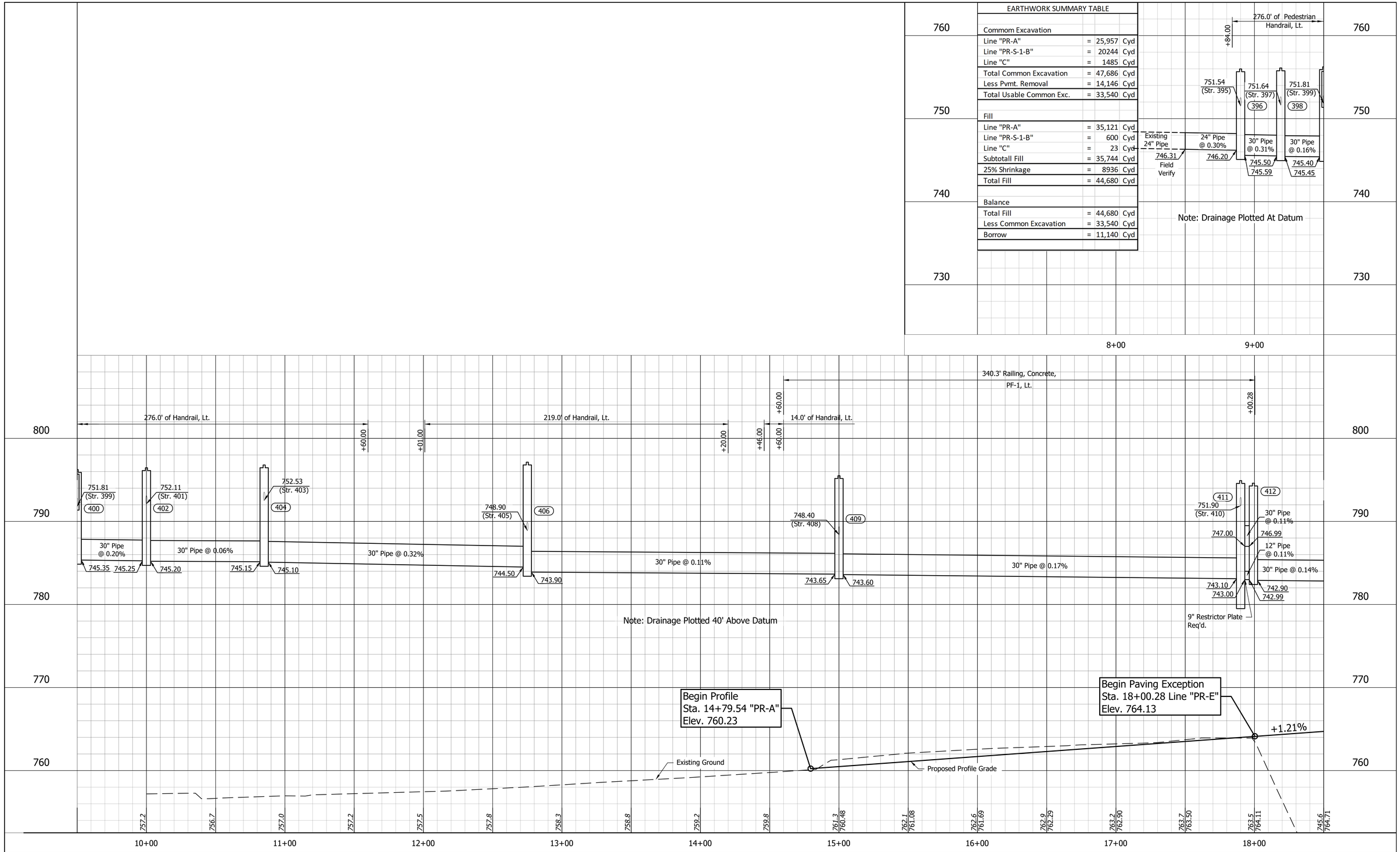
INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
1" = 5'	1801421
SURVEY BOOK	SHEETS
-	66 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Plan & Profile PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

EARTHWORK SUMMARY TABLE			
Commom Excavation			
Line "PR-A"	=	25,957	Cyd
Line "PR-S-1-B"	=	20244	Cyd
Line "C"	=	1485	Cyd
Total Common Excavation	=	47,686	Cyd
Less Pvmt. Removal	=	14,146	Cyd
Total Usable Common Exc.	=	33,540	Cyd
Fill			
Line "PR-A"	=	35,121	Cyd
Line "PR-S-1-B"	=	600	Cyd
Line "C"	=	23	Cyd
Subtotall Fill	=	35,744	Cyd
25% Shrinkage	=	8936	Cyd
Total Fill	=	44,680	Cyd
Balance			
Total Fill	=	44,680	Cyd
Less Common Excavation	=	33,540	Cyd
Borrow	=	11,140	Cyd



File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Plan & Profile PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

STAGE 2 PLANS

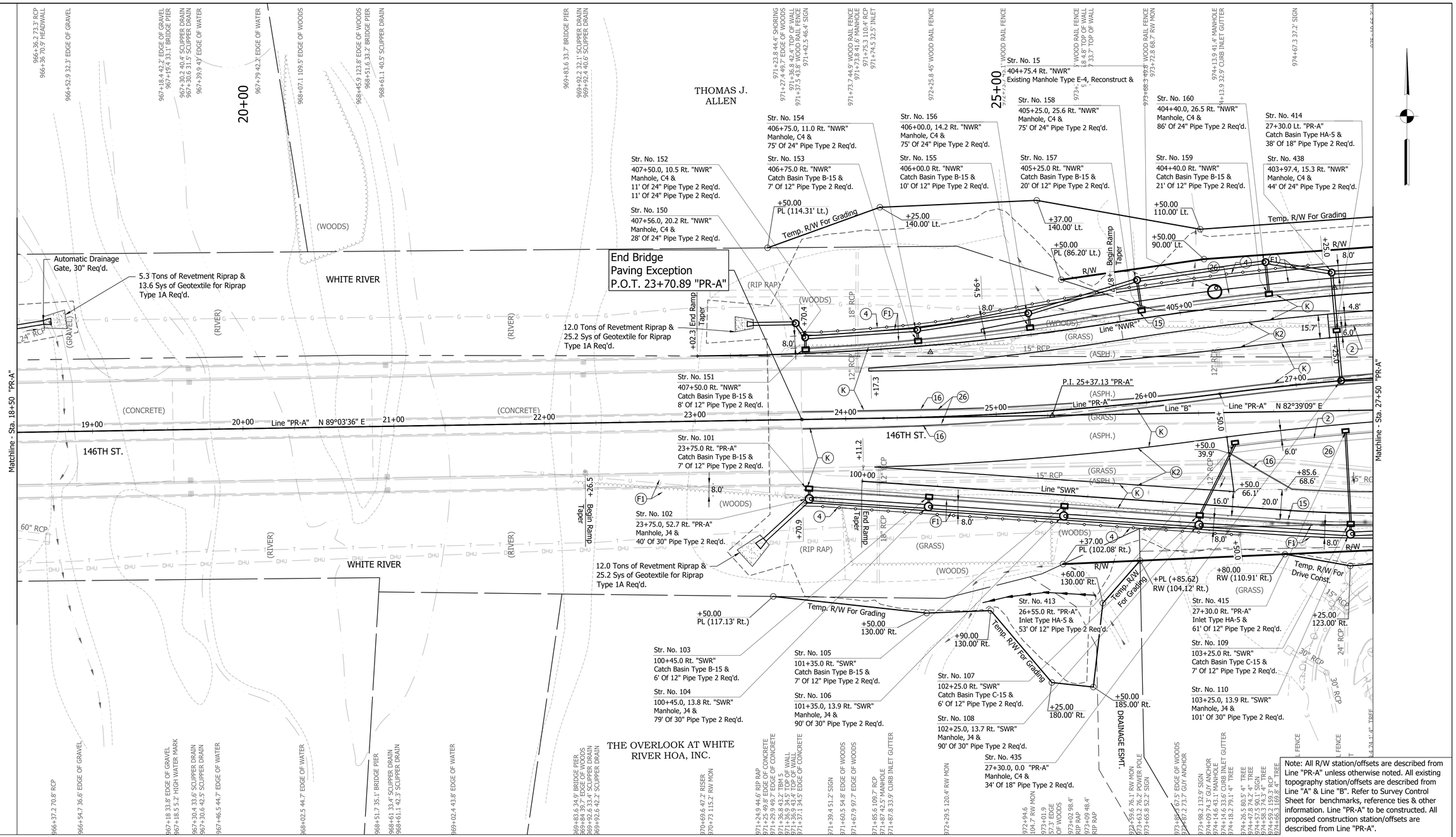
RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: AJA DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

PROFILE
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
1" = 5'	1801421
SURVEY BOOK	SHEETS
-	67 of 186
CONTRACT	PROJECT
R-41313	1801421



Note: All R/W station/offsets are described from Line "PR-A" unless otherwise noted. All existing topography station/offsets are described from Line "A" & Line "B". Refer to Survey Control Sheet for benchmarks, reference ties & other information. Line "PR-A" to be constructed. All proposed construction station/offsets are described from Line "PR-A".

LEGEND

- (C1) PCCP For Approaches, 6" on 6" Dense Graded Subbase on Subgrade Treatment Type II (6" Coarse Aggregate, No. 53)
- (C3) PCCP For Approaches, 9" on 6" Dense Graded Subbase, on Geogrid Type IB, on Subgrade Treatment Type II (6" Coarse Aggregate, No. 53)
- (K) **146th Street & Allisonville Road (Mainline, Ramps, & Shoulders)** Full Depth HMA Pavement Consisting of 165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on 330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on 4" Compacted Aggregate, No. 53 on Geotextile for Pavement, Type IB on Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)
- (K1) Widening with HMA, Type C 165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on 330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on 4" Compacted Aggregate, No. 53 on Geotextile for Pavement, Type IB on Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)
- (K2) HMA For Approaches, Type B 165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on 275 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 440 #/Sys QC/QA-HMA, 3, 64, Base, 25.0 mm on 3" Compacted Aggregate, No. 53 on Subgrade Treatment, Type IC (12" Compacted Aggregate, No. 53)
- (K3) 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 (6" Compacted Aggregate, No. 53)
- (F) Sidewalk, Concrete
- (F1) HMA For Sidewalk
- (F2) Truck Apron 7" PCCP on 7" Compacted Aggregate, No. 53
- (M) Moment Slab
- (R) Mill, Asphalt, 1.5" 165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm
- (S) Seed, Type U
- (W) Guardrail, MGS, W-Beam, 6'-3" Spa.
- (1) Concrete Barrier
- (2) Concrete Barrier Modified
- (3) Railing, Concrete PF-1
- (4) Pedestrian Handrail
- (15) Curb & Gutter, Concrete
- (16) Curb, Concrete
- (17) Curb, Integral, Concrete
- (19) Curb and Gutter, Roll Curb, Modified
- (22) Center Curb, D, Concrete
- (26) Sodding, Nursery
- (CR) Curb Ramp, Concrete
- (S) Sidewalk Elevation Transition

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

STAGE 2 PLANS

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

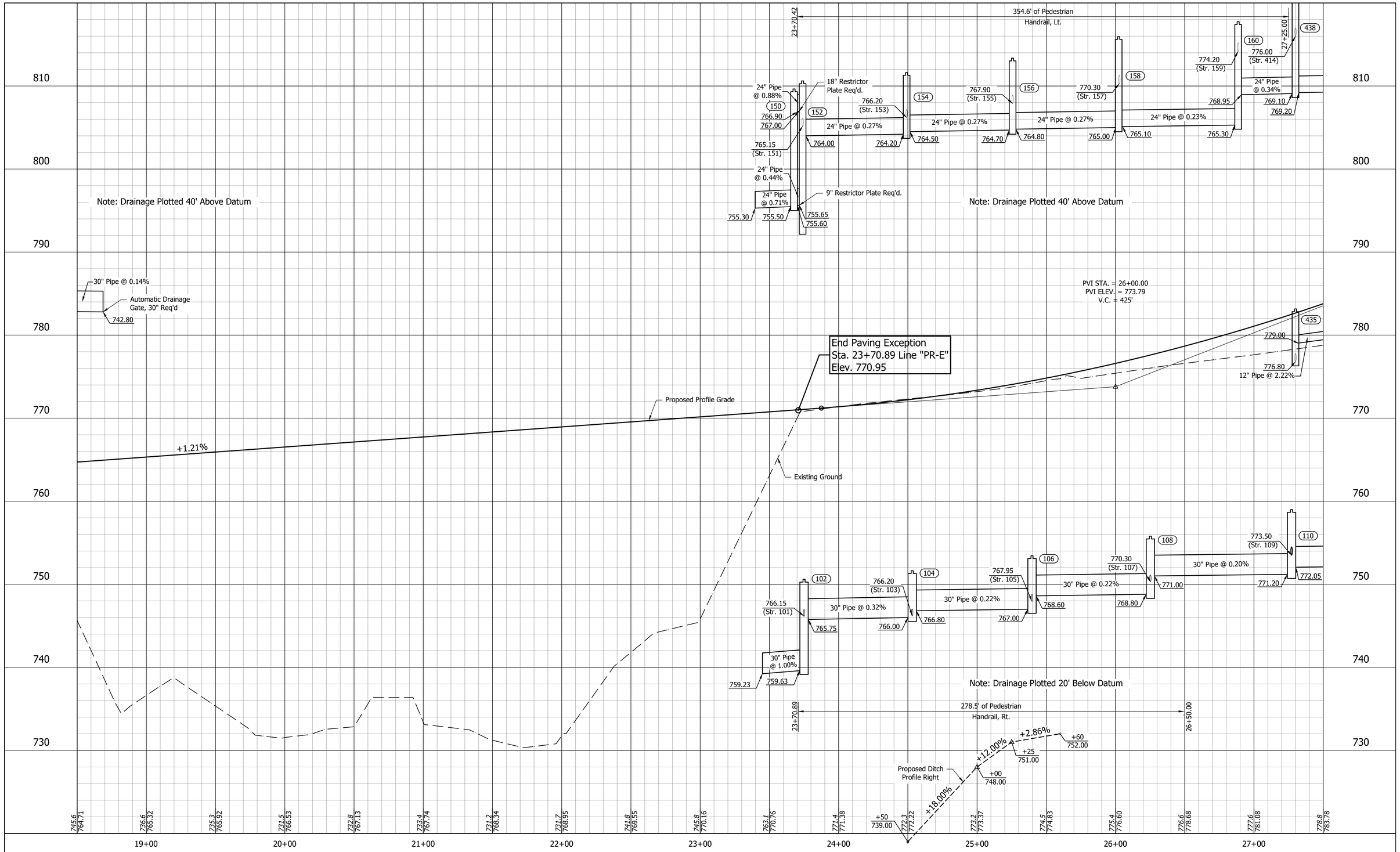
DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: AJA

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
1" = 5'	1801421
SURVEY BOOK	SHEETS
-	68 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Plan & Profile PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Plan & Profile PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

STAGE 2
PLANS

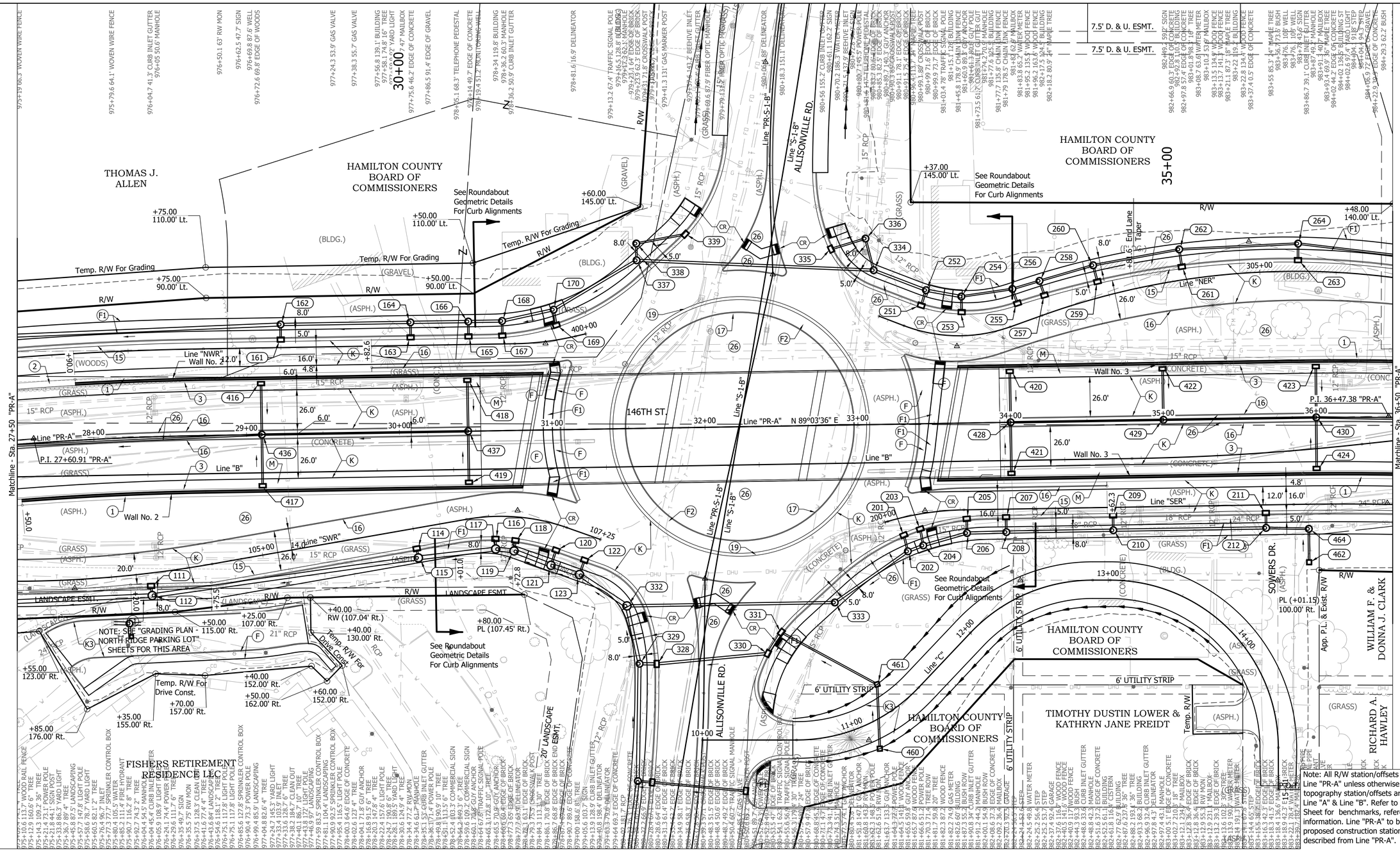
RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: AJA DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

PROFILE
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
1" = 5'	1801421
SURVEY BOOK	SHEETS
-	69 of 186
CONTRACT	PROJECT
R-41313	1801421



Note: All R/W station/offsets are described from Line "PR-A" unless otherwise noted. All existing topography station/offsets are described from Line "A" & Line "B". Refer to Survey Control Sheet for benchmarks, reference ties & other information. Line "PR-A" to be constructed. All proposed construction station/offsets are described from Line "PR-A".

LEGEND

- (C1) PCCP For Approaches, 6" on 6" Dense Graded Subbase on Subgrade Treatment Type II (6" Coarse Aggregate, No. 53)
- (C3) PCCP For Approaches, 9" on 6" Dense Graded Subbase, on Geogrid Type IB, on Subgrade Treatment Type II (6" Coarse Aggregate, No. 53)
- (K) **146th Street & Allisonville Road (Mainline, Ramps, & Shoulders)** Full Depth HMA Pavement Consisting of 165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on 330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on 4" Compacted Aggregate, No. 53 on Geotextile for Pavement, Type IB on Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)
- (K1) Widening with HMA, Type C 165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on 330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on 4" Compacted Aggregate, No. 53 on Geotextile for Pavement, Type IB on Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)
- (K2) HMA For Approaches, Type B 165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on 275 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 440 #/Sys QC/QA-HMA, 3, 64, Base, 25.0 mm on 3" Compacted Aggregate, No. 53 on Subgrade Treatment, Type IC (12" Compacted Aggregate, No. 53)
- (K3) HMA For Approaches, Type B 165 #/Sys QC/QA-HMA Surface Type B on 275 #/Syd HMA Intermediate Type B on 6" Compacted Aggregate, No. 53, on Subgrade Treatment Type II (6" Compacted Aggregate, No. 53)
- (F) Sidewalk, Concrete
- (F1) HMA For Sidewalk
- (F2) Truck Apron 7" PCCP on 7" Compacted Aggregate, No. 53
- (M) Moment Slab
- (R) Mill, Asphalt, 1.5" 165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm
- (S) Seed, Type U
- (W) Guardrail, MGS, W-Beam, 6'-3" Spa.
- (1) Concrete Barrier
- (2) Concrete Barrier Modified
- (3) Railing, Concrete PF-1
- (4) Pedestrian Handrail
- (15) Curb & Gutter, Concrete
- (16) Curb, Concrete
- (17) Curb, Integral, Concrete
- (19) Curb and Gutter, Roll Curb, Modified
- (22) Center Curb, D, Concrete
- (26) Sodding, Nursery
- (CR) Curb Ramp, Concrete
- (S) Sidewalk Elevation Transition

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

STAGE 2 PLANS

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

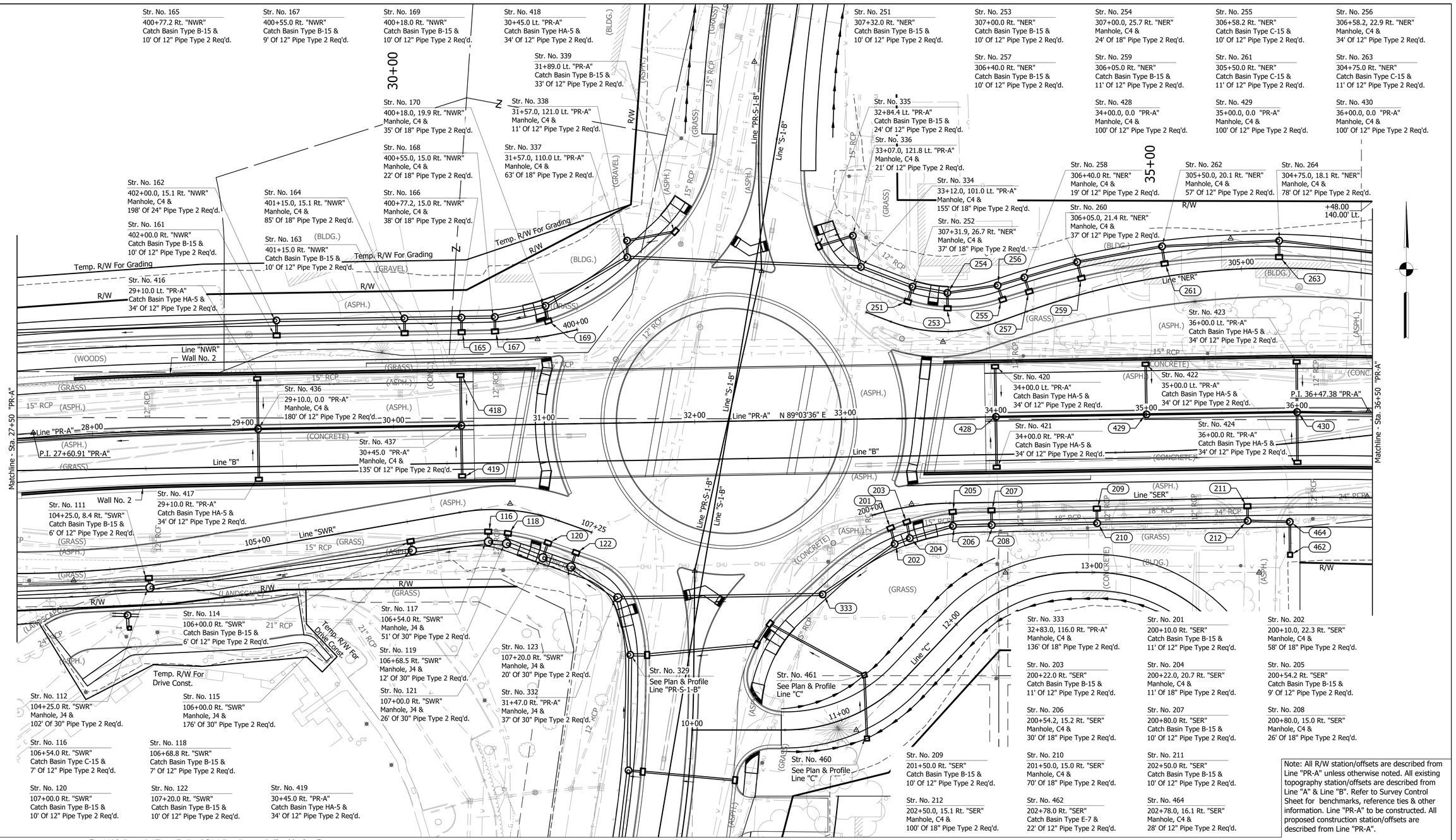
DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: AJA

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
1" = 5'	1801421
SURVEY BOOK	SHEETS
-	70 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Plan & Profile PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



Note: All R/W station/offsets are described from Line "PR-A" unless otherwise noted. All existing topography station/offsets are described from Line "A" & Line "B". Refer to Survey Control Sheet for benchmarks, reference ties & other information. Line "PR-A" to be constructed. All proposed construction station/offsets are described from Line "PR-A".

LEGEND

(C1) PCCP For Approaches, 6" on
6" Dense Graded Subbase on
Subgrade Treatment Type II
(6" Coarse Aggregate, No. 53)

(C3) PCCP For Approaches, 9" on
6" Dense Graded Subbase, on
Geogrid Type IB, on
Subgrade Treatment Type II
(6" Coarse Aggregate, No. 53)

(K) **146th Street & Allisonville Road (Mainline, Ramps, & Shoulders)**
Full Depth HMA Pavement Consisting of
165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on
330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on
385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on
4" Compacted Aggregate, No. 53 on
Geotextile for Pavement, Type IB on
Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)

(K1) Widening with HMA, Type C
165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on
330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on
385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on
4" Compacted Aggregate, No. 53 on
Geotextile for Pavement, Type IB on
Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)

(K2) HMA For Approaches, Type B
165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on
275 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on
440 #/Sys QC/QA-HMA, 3, 64, Base, 25.0 mm on
3" Compacted Aggregate, No. 53 on
Subgrade Treatment, Type IC
(12" Compacted Aggregate, No. 53)

(K3) 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 (6" Compacted Aggregate, No. 53)

(F) Sidewalk, Concrete

(F1) HMA For Sidewalk

(F2) Truck Apron
7" PCCP on
7" Compacted Aggregate, No. 53

(M) Moment Slab

(R) Mill, Asphalt, 1.5"
165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm

(S) Seed, Type U

(W) Guardrail, MGS, W-Beam, 6'-3" Spa.

(1) Concrete Barrier

(2) Concrete Barrier Modified

(3) Railing, Concrete PF-1

(4) Pedestrian Handrail

(15) Curb & Gutter, Concrete

(16) Curb, Concrete

(17) Curb, Integral, Concrete

(19) Curb and Gutter, Roll Curb, Modified

(22) Center Curb, D, Concrete

(26) Sodding, Nursery

(CR) Curb Ramp, Concrete

(S) Sidewalk Elevation Transition

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

STAGE 2 PLANS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: TBL DRAWN: HSW
CHECKED: CCR CHECKED: AJA

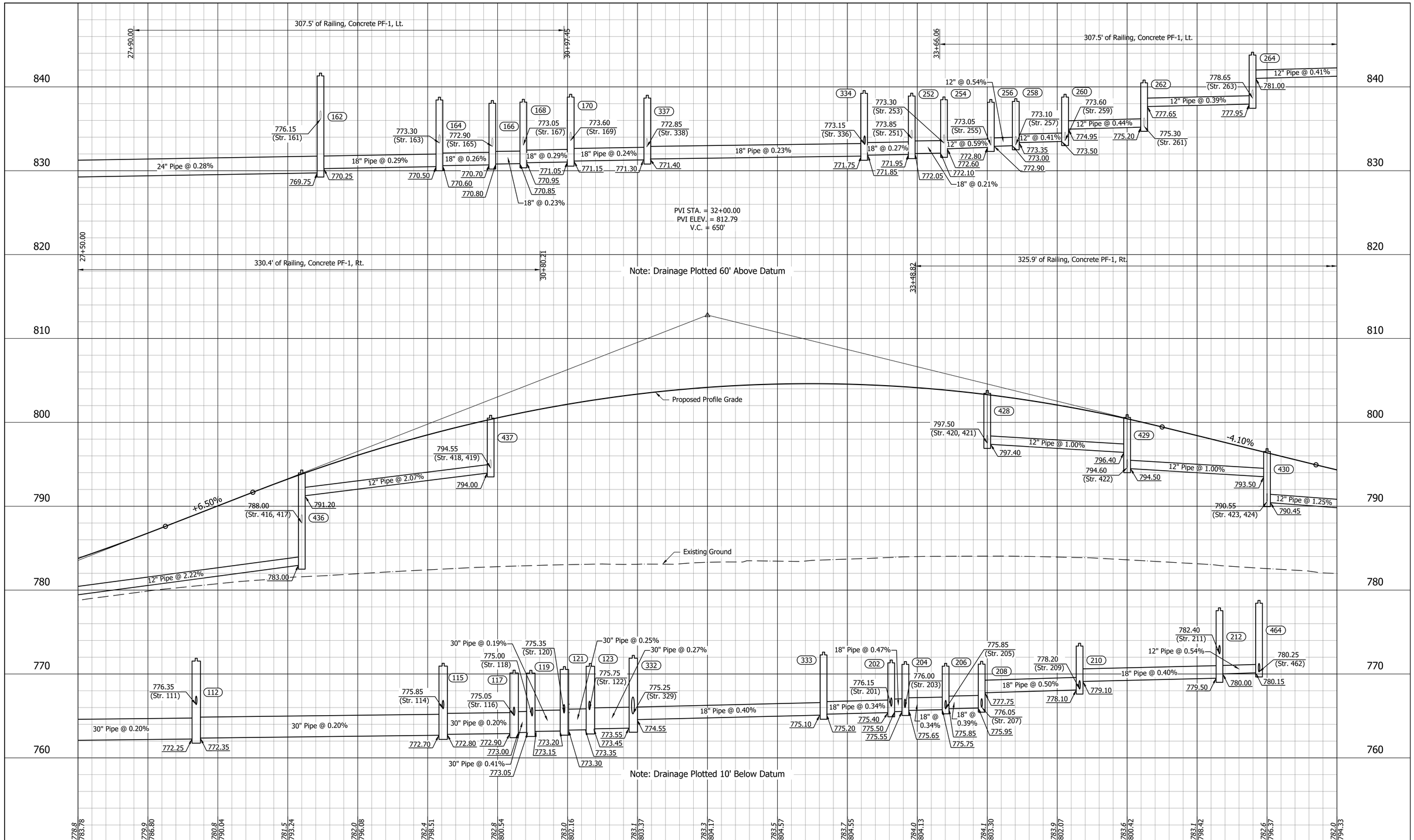
INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN - DRAINAGE
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
1" = 5'	1801421

SURVEY BOOK	SHEETS		
-	71	of	186
CONTRACT	PROJECT		
R-41313	1801421		

File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Plan & Profile PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Plan & Profile PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

STAGE 2
PLANS

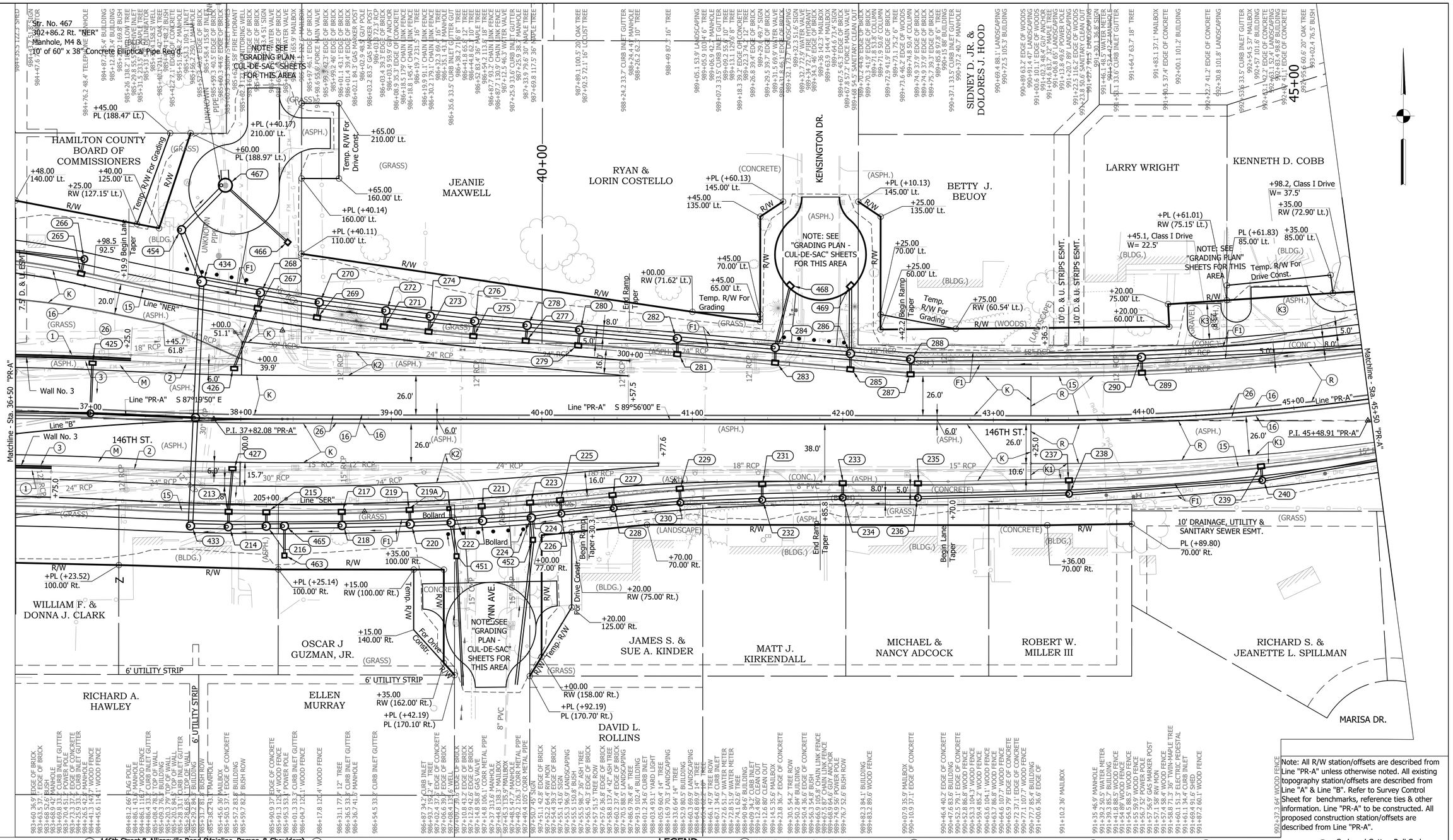
RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: AJA DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

PROFILE
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
1" = 5'	1801421
SURVEY BOOK	SHEETS
-	72 of 186
CONTRACT	PROJECT
R-41313	1801421



Note: All R/W station/offsets are described from Line "PR-A" unless otherwise noted. All existing topography station/offsets are described from Line "A" & Line "B". Refer to Survey Control Sheet for benchmarks, reference ties & other information. Line "PR-A" to be constructed. All proposed construction station/offsets are described from Line "PR-A".

LEGEND

(C1) PCCP For Approaches, 6" on 6" Dense Graded Subbase on Subgrade Treatment Type II (6" Coarse Aggregate, No. 53)

(C3) PCCP For Approaches, 9" on 6" Dense Graded Subbase, on Geogrid Type IB, on Subgrade Treatment Type II (6" Coarse Aggregate, No. 53)

(K) **146th Street & Allisonville Road (Mainline, Ramps, & Shoulders)**
Full Depth HMA Pavement Consisting of
165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on
330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on
385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on
4" Compacted Aggregate, No. 53 on
Geotextile for Pavement, Type IB on
Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)

(K1) Widening with HMA, Type C
165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on
330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on
385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on
300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on
4" Compacted Aggregate, No. 53 on
Geotextile for Pavement, Type IB on
Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)

(K2) HMA For Approaches, Type B
165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on
275 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on
440 #/Sys QC/QA-HMA, 3, 64, Base, 25.0 mm on
3" Compacted Aggregate, No. 53 on
Subgrade Treatment, Type IC
(12" Compacted Aggregate, No. 53)

(K3) 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 (6" Compacted Aggregate, No. 53)

(F) Sidewalk, Concrete

(F1) HMA For Sidewalk

(F2) Truck Apron
7" PCCP on
7" Compacted Aggregate, No. 53

(M) Moment Slab

(R) Mill, Asphalt, 1.5"
165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm

(S) Seed, Type U

(W) Guardrail, MGS, W-Beam, 6'-3" Spa.

(1) Concrete Barrier

(2) Concrete Barrier Modified

(3) Railing, Concrete PF-1

(4) Pedestrian Handrail

(15) Curb & Gutter, Concrete

(16) Curb, Concrete

(17) Curb, Integral, Concrete

(19) Curb and Gutter, Roll Curb, Modified

(22) Center Curb, D, Concrete

(26) Sodding, Nursery

(CR) Curb Ramp, Concrete

(S) Sidewalk Elevation Transition

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

STAGE 2 PLANS

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

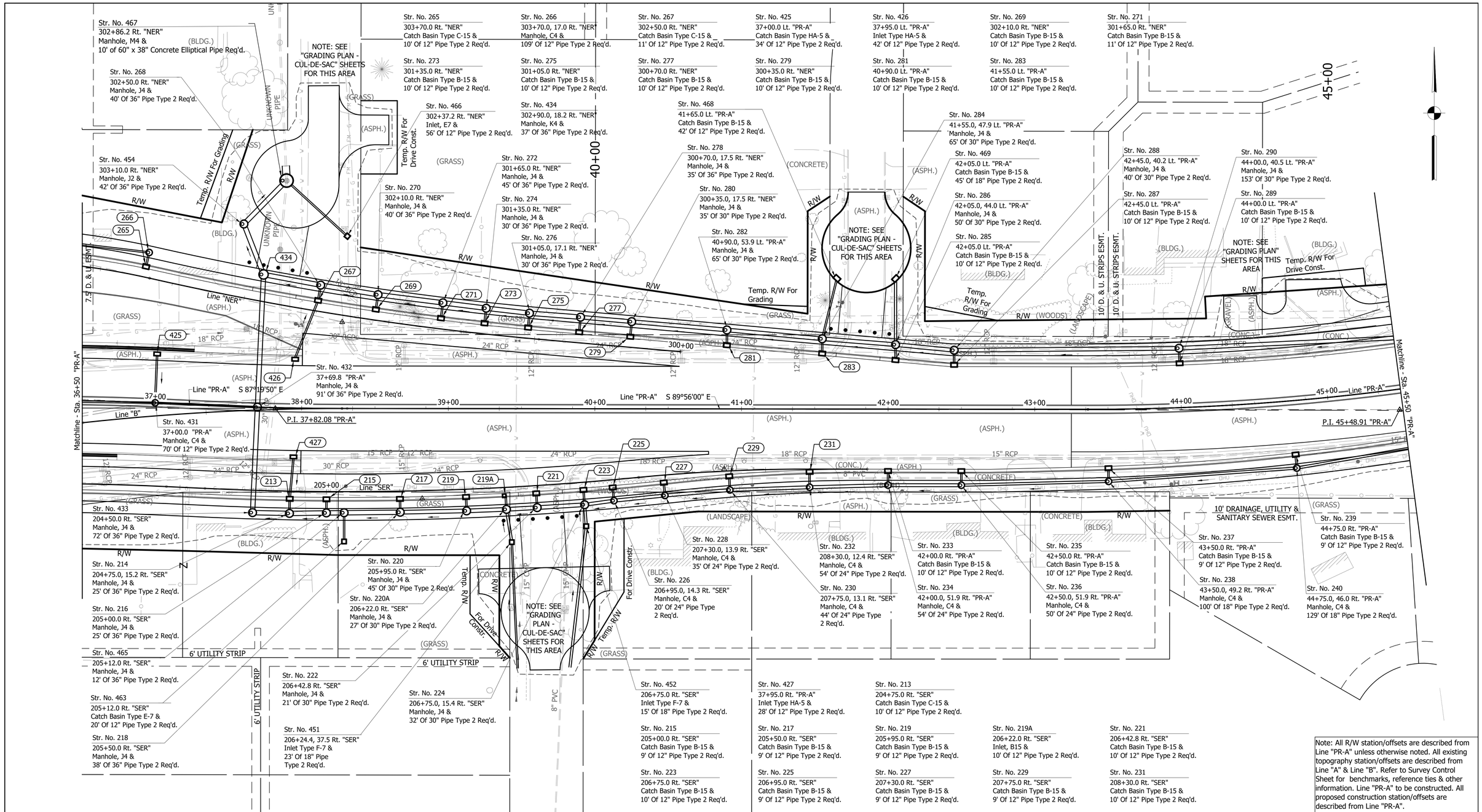
DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: AJA

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
1" = 5'	1801421
SURVEY BOOK	SHEETS
-	73 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Plan & Profile PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



Note: All R/W station/offsets are described from Line "PR-A" unless otherwise noted. All existing topography station/offsets are described from Line "A" & Line "B". Refer to Survey Control Sheet for benchmarks, reference ties & other information. Line "PR-A" to be constructed. All proposed construction station/offsets are described from Line "PR-A".

LEGEND

- (C1) PCCP For Approaches, 6" on 6" Dense Graded Subbase on Subgrade Treatment Type II (6" Coarse Aggregate, No. 53)
- (C3) PCCP For Approaches, 9" on 6" Dense Graded Subbase, on Geogrid Type IB, on Subgrade Treatment Type II (6" Coarse Aggregate, No. 53)
- (K) **146th Street & Allisonville Road (Mainline, Ramps, & Shoulders)** Full Depth HMA Pavement Consisting of 165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on 330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on 4" Compacted Aggregate, No. 53 on Geotextile for Pavement, Type IB on Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)
- (K1) Widening with HMA, Type C 165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on 330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on 4" Compacted Aggregate, No. 53 on Geotextile for Pavement, Type IB on Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)
- (K2) HMA For Approaches, Type B 165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on 275 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 440 #/Sys QC/QA-HMA, 3, 64, Base, 25.0 mm on 3" Compacted Aggregate, No. 53 on Subgrade Treatment, Type IC (12" Compacted Aggregate, No. 53)
- (K3) 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 (6" Compacted Aggregate, No. 53)
- (F) Sidewalk, Concrete
- (F1) HMA For Sidewalk
- (F2) Truck Apron 7" PCCP on 7" Compacted Aggregate, No. 53
- (M) Moment Slab
- (R) Mill, Asphalt, 1.5" 165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm
- (S) Seed, Type U
- (W) Guardrail, MGS, W-Beam, 6'-3" Spa.
- (1) Concrete Barrier
- (2) Concrete Barrier Modified
- (3) Railing, Concrete PF-1
- (4) Pedestrian Handrail
- (15) Curb & Gutter, Concrete
- (16) Curb, Concrete
- (17) Curb, Integral, Concrete
- (19) Curb and Gutter, Roll Curb, Modified
- (22) Center Curb, D, Concrete
- (26) Sodding, Nursery
- (CR) Curb Ramp, Concrete
- (S) Sidewalk Elevation Transition

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

STAGE 2 PLANS

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

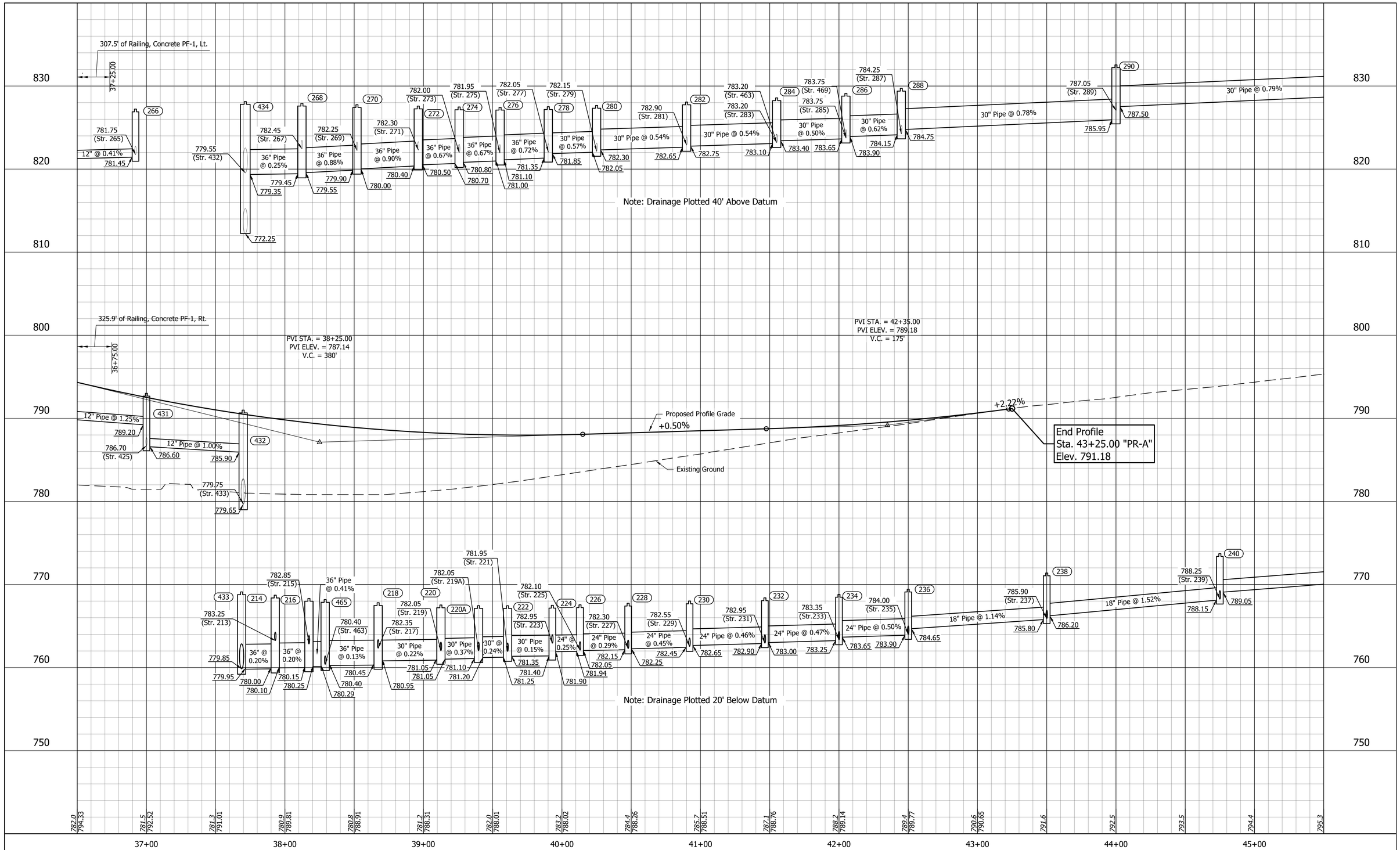
DESIGNED: TBL DRAWN: HSW
CHECKED: CCR CHECKED: AJA

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN - DRAINAGE
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1"=30'	-
VERTICAL SCALE	DESIGNATION
1"=5'	1801421
SURVEY BOOK	SHEETS
-	74 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Plan & Profile PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Plan & Profile PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

STAGE 2
PLANS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

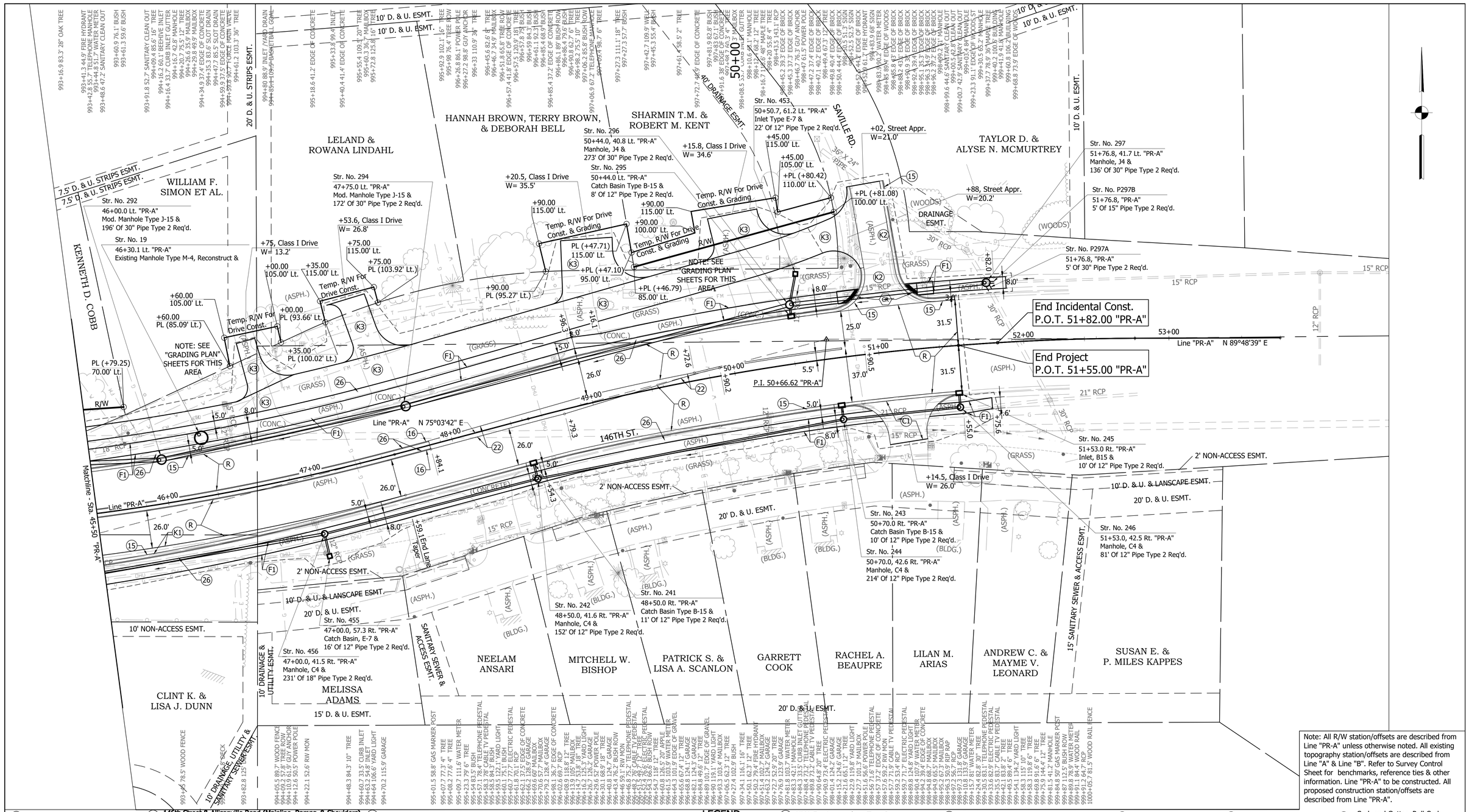
DESIGNED: AJA DRAWN: JNII

CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

PROFILE
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
1" = 5'	1801421
SURVEY BOOK	SHEETS
-	75 of 186
CONTRACT	PROJECT
R-41313	1801421



Note: All R/W station/offsets are described from Line "PR-A" unless otherwise noted. All existing topography station/offsets are described from Line "A" & Line "B". Refer to Survey Control Sheet for benchmarks, reference ties & other information. Line "PR-A" to be constructed. All proposed construction station/offsets are described from Line "PR-A".

LEGEND

- (C1) PCCP For Approaches, 6" on 6" Dense Graded Subbase on Subgrade Treatment Type II (6" Coarse Aggregate, No. 53)
- (C3) PCCP For Approaches, 9" on 6" Dense Graded Subbase, on Geogrid Type IB, on Subgrade Treatment Type II (6" Coarse Aggregate, No. 53)
- (K) **146th Street & Allisonville Road (Mainline, Ramps, & Shoulders)** Full Depth HMA Pavement Consisting of 165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on 330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on 4" Compacted Aggregate, No. 53 on Geotextile for Pavement, Type IB on Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)
- (K1) Widening with HMA, Type C 165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on 330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on 4" Compacted Aggregate, No. 53 on Geotextile for Pavement, Type IB on Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)
- (K2) HMA For Approaches, Type B 165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on 275 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 440 #/Sys QC/QA-HMA, 3, 64, Base, 25.0 mm on 3" Compacted Aggregate, No. 53 on Subgrade Treatment, Type IC (12" Compacted Aggregate, No. 53)
- (K3) 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 (6" Compacted Aggregate, No. 53)
- (F) Sidewalk, Concrete
- (F1) HMA For Sidewalk
- (F2) Truck Apron 7" PCCP on 7" Compacted Aggregate, No. 53
- (M) Moment Slab
- (R) Mill, Asphalt, 1.5" 165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm
- (S) Seed, Type U
- (W) Guardrail, MGS, W-Beam, 6'-3" Spa.
- (1) Concrete Barrier
- (2) Concrete Barrier Modified
- (3) Railing, Concrete PF-1
- (4) Pedestrian Handrail
- (15) Curb & Gutter, Concrete
- (16) Curb, Concrete
- (17) Curb, Integral, Concrete
- (19) Curb and Gutter, Roll Curb, Modified
- (22) Center Curb, D, Concrete
- (26) Sodding, Nursery
- (CR) Curb Ramp, Concrete
- (S) Sidewalk Elevation Transition

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

STAGE 2 PLANS

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

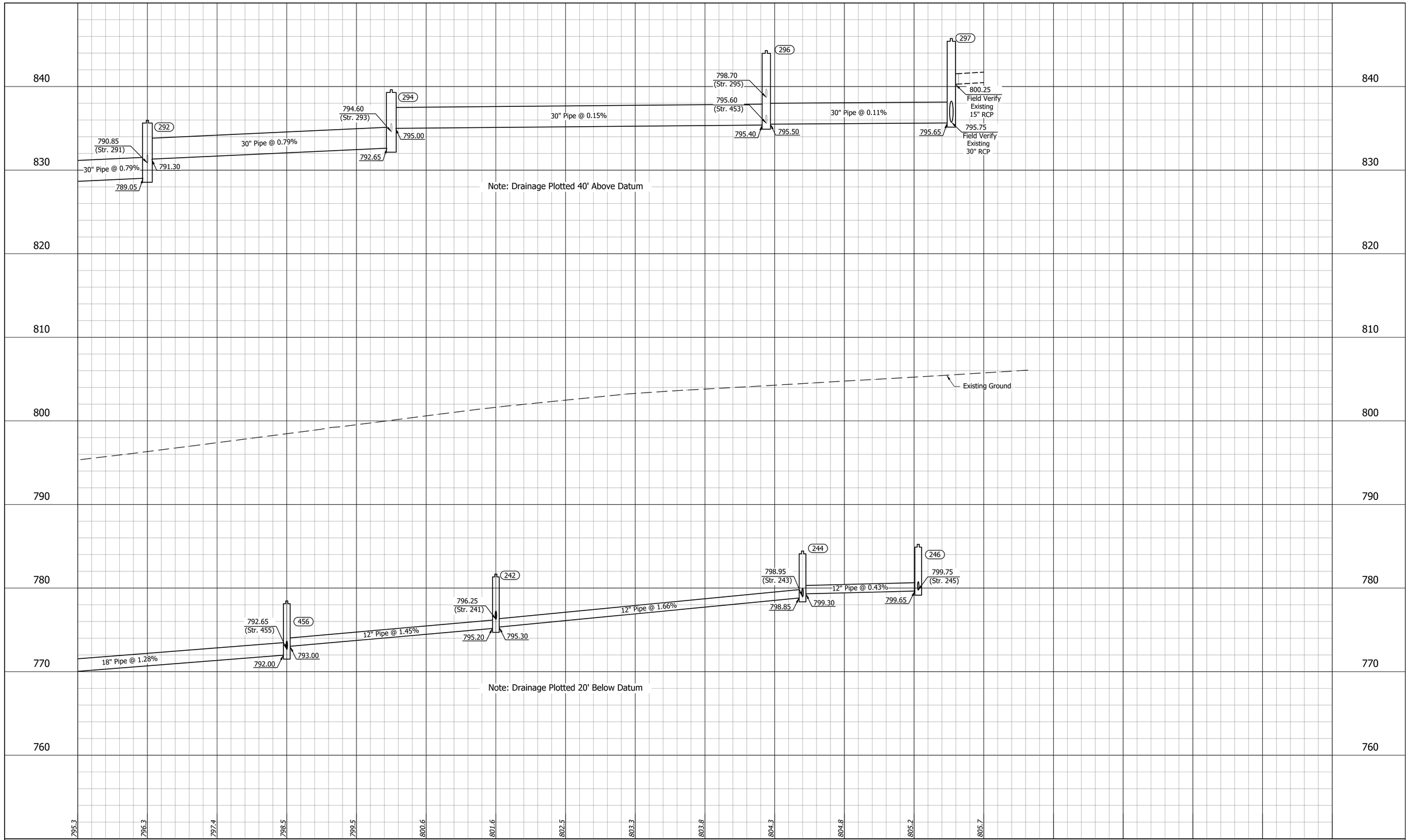
DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: AJA

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
1" = 5'	1801421
SURVEY BOOK	SHEETS
-	76 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Plan & Profile PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Plan & Profile PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

STAGE 2
PLANS

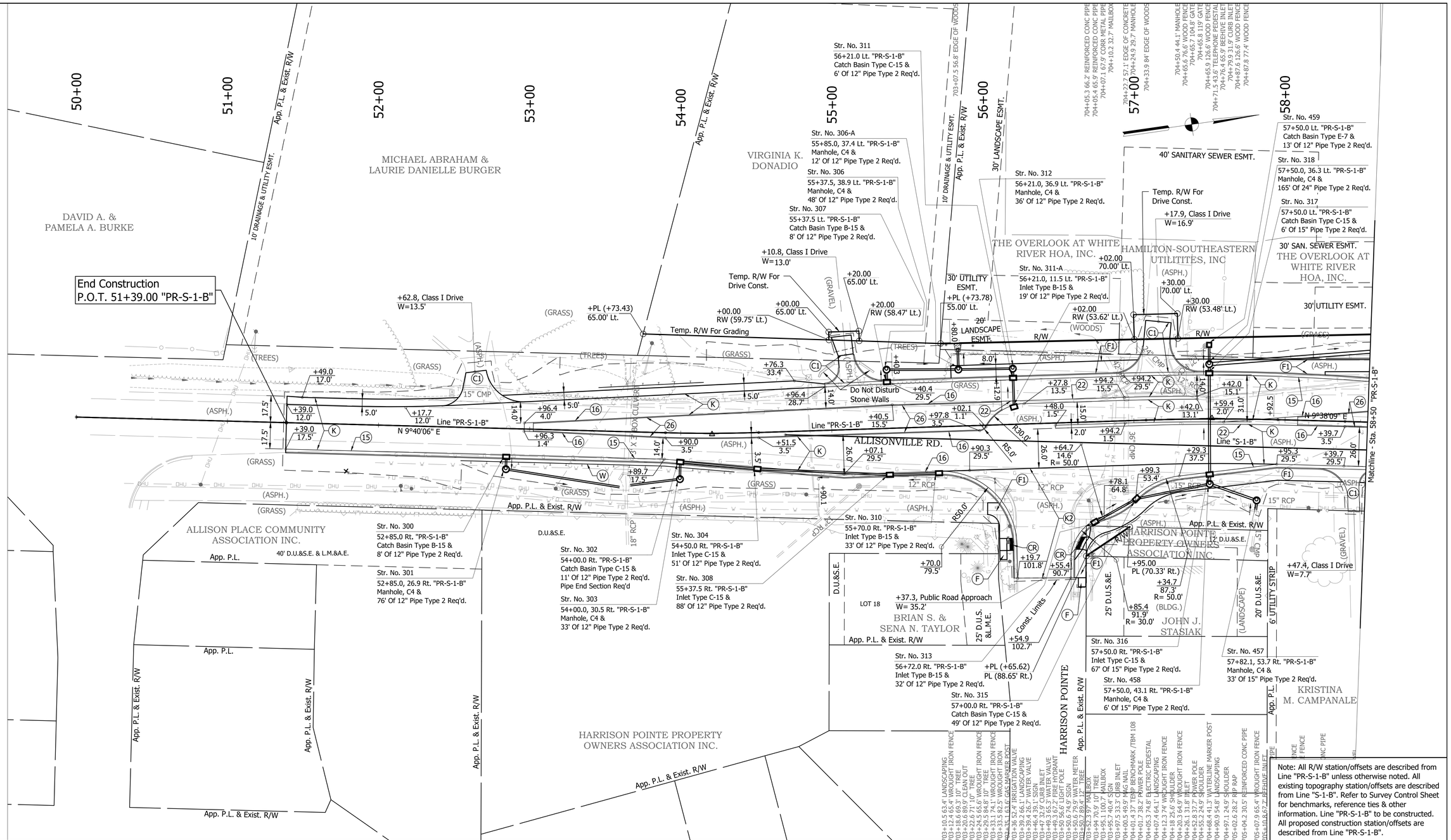
RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: AJA DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

PROFILE
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
1" = 5'	1801421
SURVEY BOOK	SHEETS
-	77 of 186
CONTRACT	PROJECT
R-41313	1801421



Note: All R/W station/offsets are described from Line "PR-S-1-B" unless otherwise noted. All existing topography station/offsets are described from Line "S-1-B". Refer to Survey Control Sheet for benchmarks, reference ties & other information. Line "PR-S-1-B" to be constructed. All proposed construction station/offsets are described from Line "PR-S-1-B".

LEGEND

- (C1) PCCP For Approaches, 6" on 6" Dense Graded Subbase on Subgrade Treatment Type II (6" Coarse Aggregate, No. 53)
- (C3) PCCP For Approaches, 9" on 6" Dense Graded Subbase, on Geogrid Type IB, on Subgrade Treatment Type II (6" Coarse Aggregate, No. 53)
- (K) 146th Street & Allisonville Road (Mainline, Ramps, & Shoulders) Full Depth HMA Pavement Consisting of 165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on 330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on 4" Compacted Aggregate, No. 53 on Geotextile for Pavement, Type IB on Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)
- (K1) Widening with HMA, Type C 165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on 330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on 4" Compacted Aggregate, No. 53 on Geotextile for Pavement, Type IB on Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)
- (K2) HMA For Approaches, Type B 165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on 275 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 440 #/Sys QC/QA-HMA, 3, 64, Base, 25.0 mm on 3" Compacted Aggregate, No. 53 on Subgrade Treatment, Type IC (12" Compacted Aggregate, No. 53)
- (K3) 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 (6" Compacted Aggregate, No. 53)
- (F) Sidewalk, Concrete
- (F1) HMA For Sidewalk
- (F2) Truck Apron 7" PCCP on 7" Compacted Aggregate, No. 53
- (M) Moment Slab
- (R) Mill, Asphalt, 1.5" 165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm
- (S) Seed, Type U
- (W) Guardrail, MGS, W-Beam, 6'-3" Spa.
- (1) Concrete Barrier
- (2) Concrete Barrier Modified
- (3) Railing, Concrete PF-1
- (4) Pedestrian Handrail
- (15) Curb & Gutter, Concrete
- (16) Curb, Concrete
- (17) Curb, Integral, Concrete
- (19) Curb and Gutter, Roll Curb, Modified
- (22) Center Curb, D, Concrete
- (26) Sodding, Nursery
- (CR) Curb Ramp, Concrete
- (S) Sidewalk Elevation Transition

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

STAGE 2 PLANS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

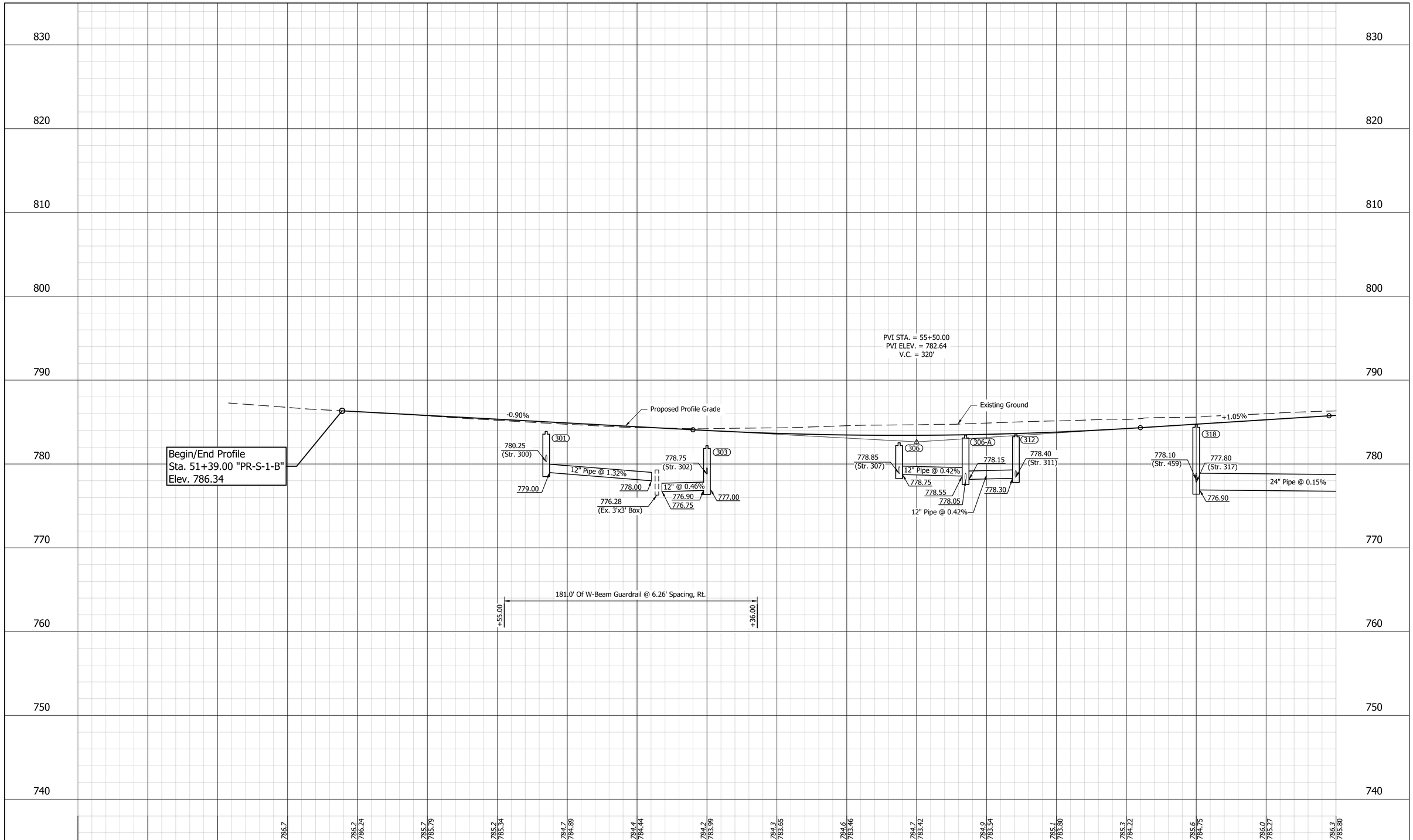
DESIGNED: TBL | DRAWN: JNII
CHECKED: CCR | CHECKED: AJA

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN
LINE "PR-S-1-B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
1" = 5'	1801421
SURVEY BOOK	SHEETS
-	78 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Plan & Profile PR-S-1-B.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Plan & Profile PR-S-1-B.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

STAGE 2
PLANS

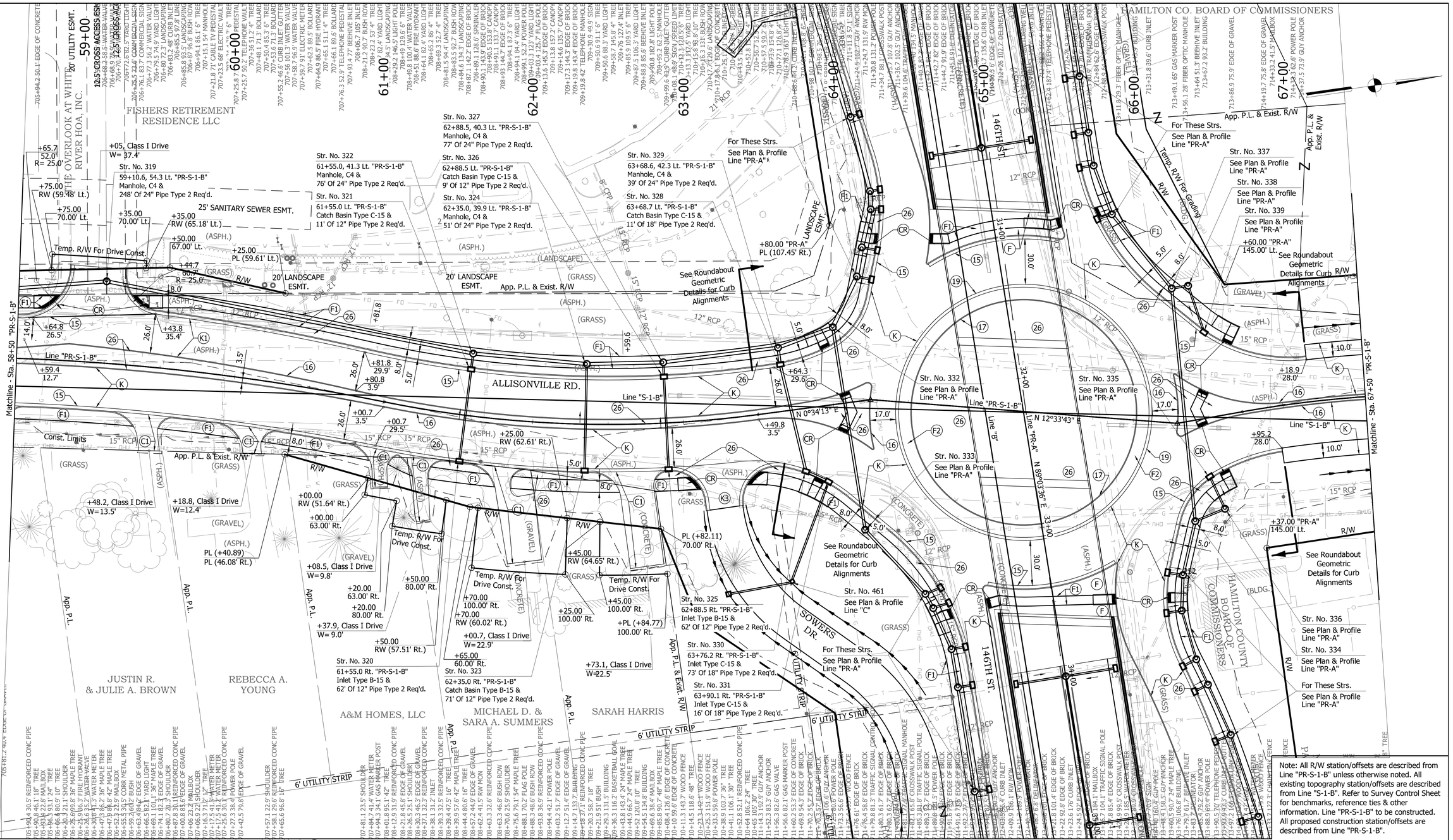
RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: AJA
DRAWN: JNII
CHECKED: CCR
CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

PROFILE
LINE "PR-S-1-B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
1" = 5'	1801421
SURVEY BOOK	SHEETS
-	79 of 186
CONTRACT	PROJECT
R-41313	1801421



Note: All R/W station/offsets are described from Line "PR-S-1-B" unless otherwise noted. All existing topography station/offsets are described from Line "S-1-B". Refer to Survey Control Sheet for benchmarks, reference ties & other information. Line "PR-S-1-B" to be constructed. All proposed construction station/offsets are described from Line "PR-S-1-B".

LEGEND

- (C1) PCCP For Approaches, 6" on 6" Dense Graded Subbase on Subgrade Treatment Type II (6" Coarse Aggregate, No. 53)
- (C3) PCCP For Approaches, 9" on 6" Dense Graded Subbase, on Geogrid Type IB, on Subgrade Treatment Type II (6" Coarse Aggregate, No. 53)
- (K) 146th Street & Allisonville Road (Mainline, Ramps, & Shoulders) Full Depth HMA Pavement Consisting of 165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on 330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on 4" Compacted Aggregate, No. 53 on Geotextile for Pavement, Type IB on Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)
- (K1) Widening with HMA, Type C 165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on 330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on 4" Compacted Aggregate, No. 53 on Geotextile for Pavement, Type IB on Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)
- (K2) HMA For Approaches, Type B 165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on 275 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 440 #/Sys QC/QA-HMA, 3, 64, Base, 25.0 mm on 3" Compacted Aggregate, No. 53 on Subgrade Treatment, Type IC (12" Compacted Aggregate, No. 53)
- (K3) 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 (6" Compacted Aggregate, No. 53)
- (F) Sidewalk, Concrete
- (F1) HMA For Sidewalk
- (F2) Truck Apron 7" PCCP on 7" Compacted Aggregate, No. 53
- (M) Moment Slab
- (R) Mill, Asphalt, 1.5" 165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm
- (S) Seed, Type U
- (W) Guardrail, MGS, W-Beam, 6'-3" Spa.
- (1) Concrete Barrier
- (2) Concrete Barrier Modified
- (3) Railing, Concrete PF-1
- (4) Pedestrian Handrail
- (15) Curb & Gutter, Concrete
- (16) Curb, Concrete
- (17) Curb, Integral, Concrete
- (19) Curb and Gutter, Roll Curb, Modified
- (22) Center Curb, D, Concrete
- (26) Sodding, Nursery
- (CR) Curb Ramp, Concrete
- (S) Sidewalk Elevation Transition

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

STAGE 2 PLANS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

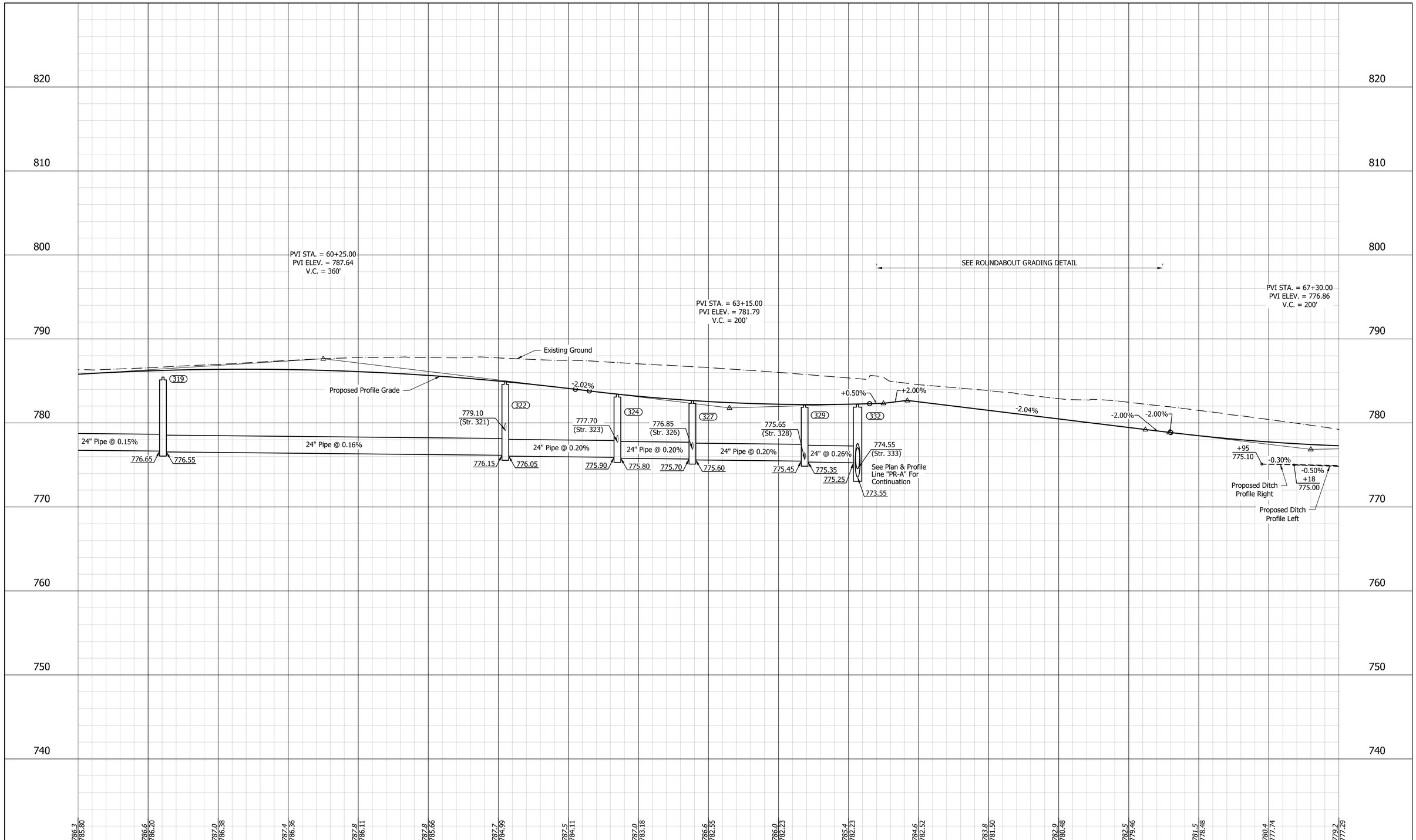
DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: AJA

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN
LINE "PR-S-1-B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
1" = 5'	1801421
SURVEY BOOK	SHEETS
-	80 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Plan & Profile PR-S-1-B.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Plan & Profile PR-S-1-B.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

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

STAGE 2
PLANS

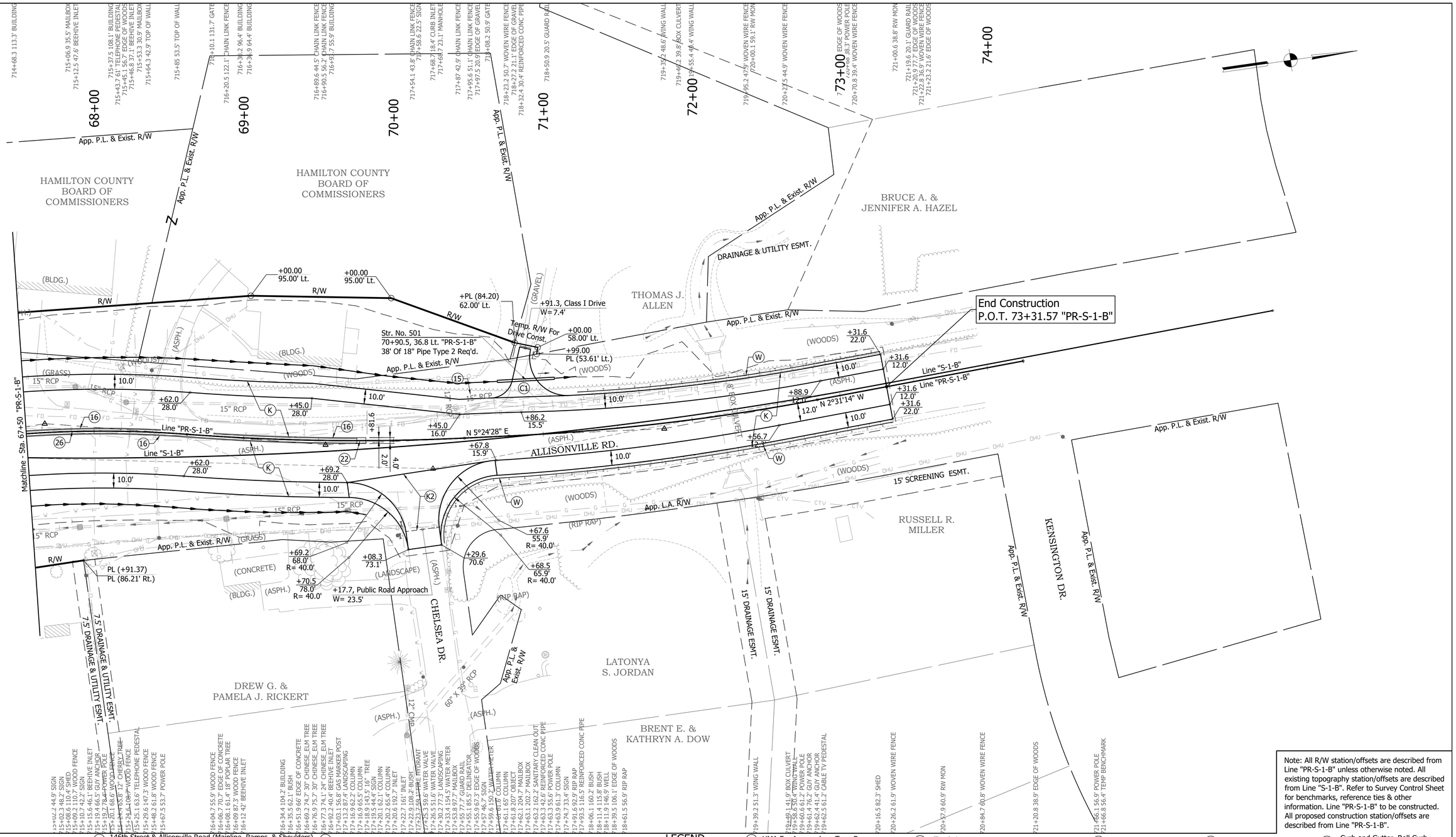
RECOMMENDED
FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: AJA DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

PROFILE
LINE "PR-S-1-B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
1" = 5'	1801421
SURVEY BOOK	SHEETS
-	81 of 186
CONTRACT	PROJECT
R-41313	1801421



Note: All R/W station/offsets are described from Line "PR-S-1-B" unless otherwise noted. All existing topography station/offsets are described from Line "S-1-B". Refer to Survey Control Sheet for benchmarks, reference ties & other information. Line "PR-S-1-B" to be constructed. All proposed construction station/offsets are described from Line "PR-S-1-B".

LEGEND

- (C1) PCCP For Approaches, 6" on 6" Dense Graded Subbase on Subgrade Treatment Type II (6" Coarse Aggregate, No. 53)
- (C3) PCCP For Approaches, 9" on 6" Dense Graded Subbase, on Geogrid Type IB, on Subgrade Treatment Type II (6" Coarse Aggregate, No. 53)
- (K) 146th Street & Allisonville Road (Mainline, Ramps, & Shoulders) Full Depth HMA Pavement Consisting of 165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on 330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on 4" Compacted Aggregate, No. 53 on Geotextile for Pavement, Type IB on Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)
- (K1) Widening with HMA, Type C 165 #/Sys QC/QA-HMA, 4, 76, Surface, 9.5 mm - SMA on 330 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 385 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 330 #/Sys QC/QA-HMA, 3, 64, Base, 19.0 mm on 300 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on 4" Compacted Aggregate, No. 53 on Geotextile for Pavement, Type IB on Subgrade Treatment, Type IC (12" Compacted Agg., No. 53)
- (K2) HMA For Approaches, Type B 165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on 275 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 440 #/Sys QC/QA-HMA, 3, 64, Base, 25.0 mm on 3" Compacted Aggregate, No. 53 on Subgrade Treatment, Type IC (12" Compacted Aggregate, No. 53)
- (K3) 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 (6" Compacted Aggregate, No. 53)
- (F) Sidewalk, Concrete
- (F1) HMA For Sidewalk
- (F2) Truck Apron 7" PCCP on 7" Compacted Aggregate, No. 53
- (M) Moment Slab
- (R) Mill, Asphalt, 1.5" 165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm
- (S) Seed, Type U
- (W) Guardrail, MGS, W-Beam, 6'-3" Spa.
- (1) Concrete Barrier
- (2) Concrete Barrier Modified
- (3) Railing, Concrete PF-1
- (4) Pedestrian Handrail
- (15) Curb & Gutter, Concrete
- (16) Curb, Concrete
- (17) Curb, Integral, Concrete
- (19) Curb and Gutter, Roll Curb, Modified
- (22) Center Curb, D, Concrete
- (26) Sodding, Nursery
- (CR) Curb Ramp, Concrete
- (S) Sidewalk Elevation Transition

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

STAGE 2 PLANS

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

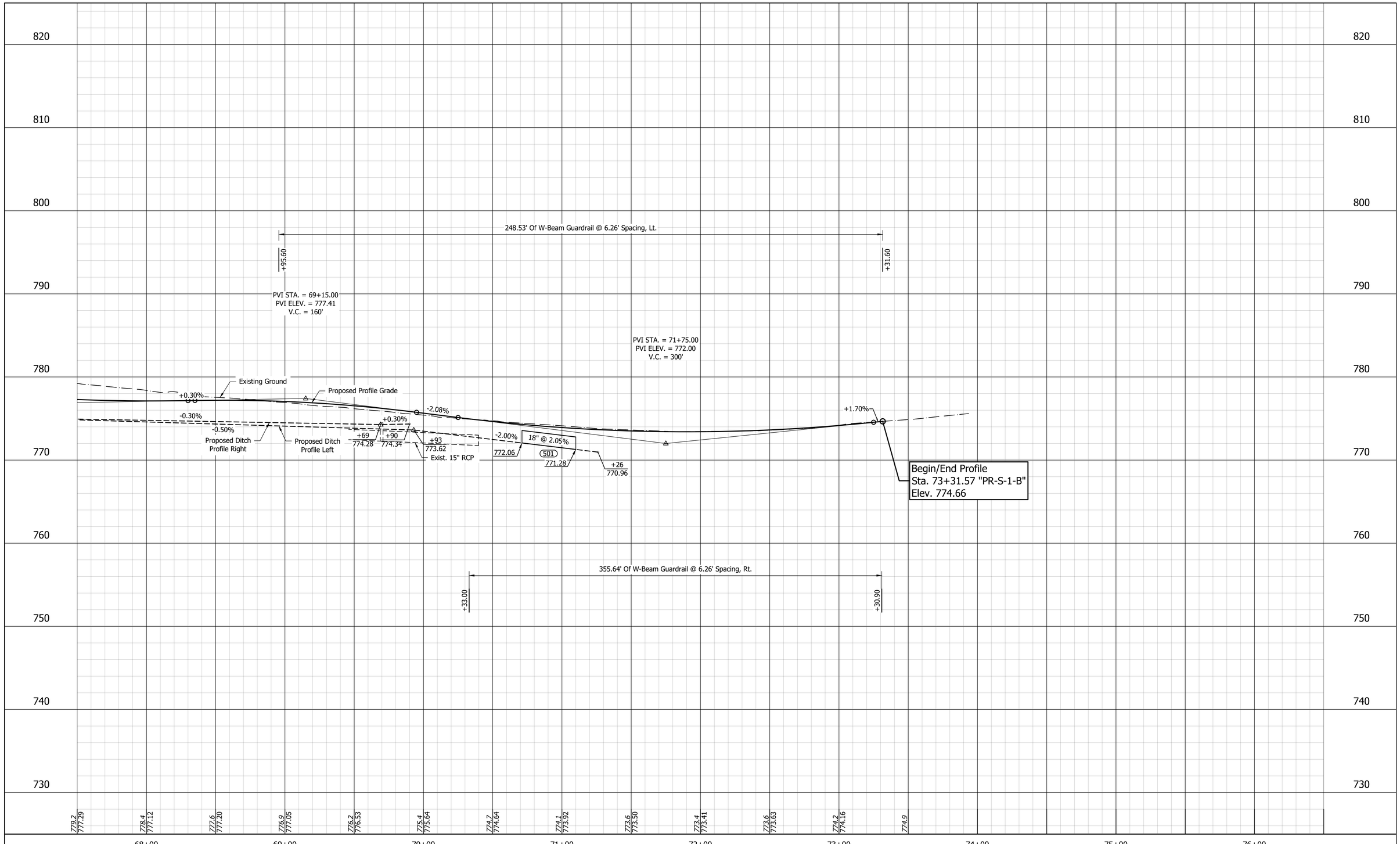
DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: AJA

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN
LINE "PR-S-1-B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
1" = 5'	1801421
SURVEY BOOK	SHEETS
-	82 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Plan & Profile PR-S-1-B.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Plan & Profile PR-S-1-B.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

STAGE 2
PLANS

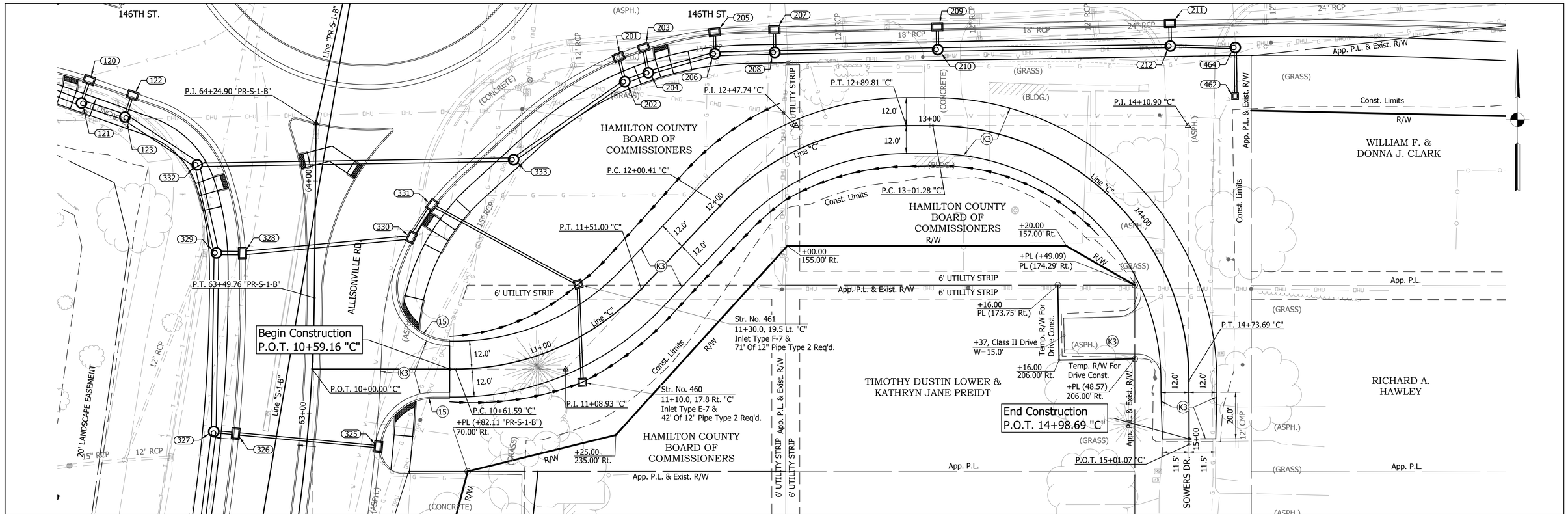
RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: AJA
DRAWN: JNII
CHECKED: CCR
CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

PROFILE
LINE "PR-S-1-B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
1" = 5'	1801421
SURVEY BOOK	SHEETS
-	83 of 186
CONTRACT	PROJECT
R-41313	1801421

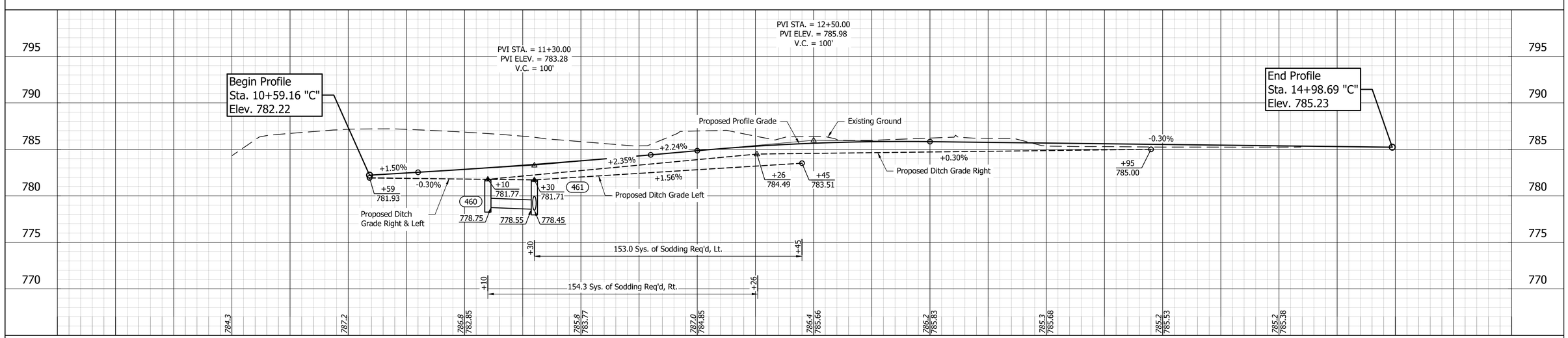


LEGEND

(K3) HMA For Approaches
165 #/Sys HMA Surface Type B on
275 #/Sys HMA Intermediate Type B on
6" Compacted Aggregate, No. 53, Base on
Subgrade Treatment Type II (6" Compacted Aggregate, No. 53)

(15) Curb & Gutter, Concrete

Note: All R/W station/offsets are described from Line "PR-A" unless otherwise noted. Refer to Survey Control Sheet for benchmarks, reference ties & other information. Line "C" to be constructed. All proposed construction station/offsets are described from Line "C".



File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Plan & Profile C.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

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

STAGE 2 PLANS

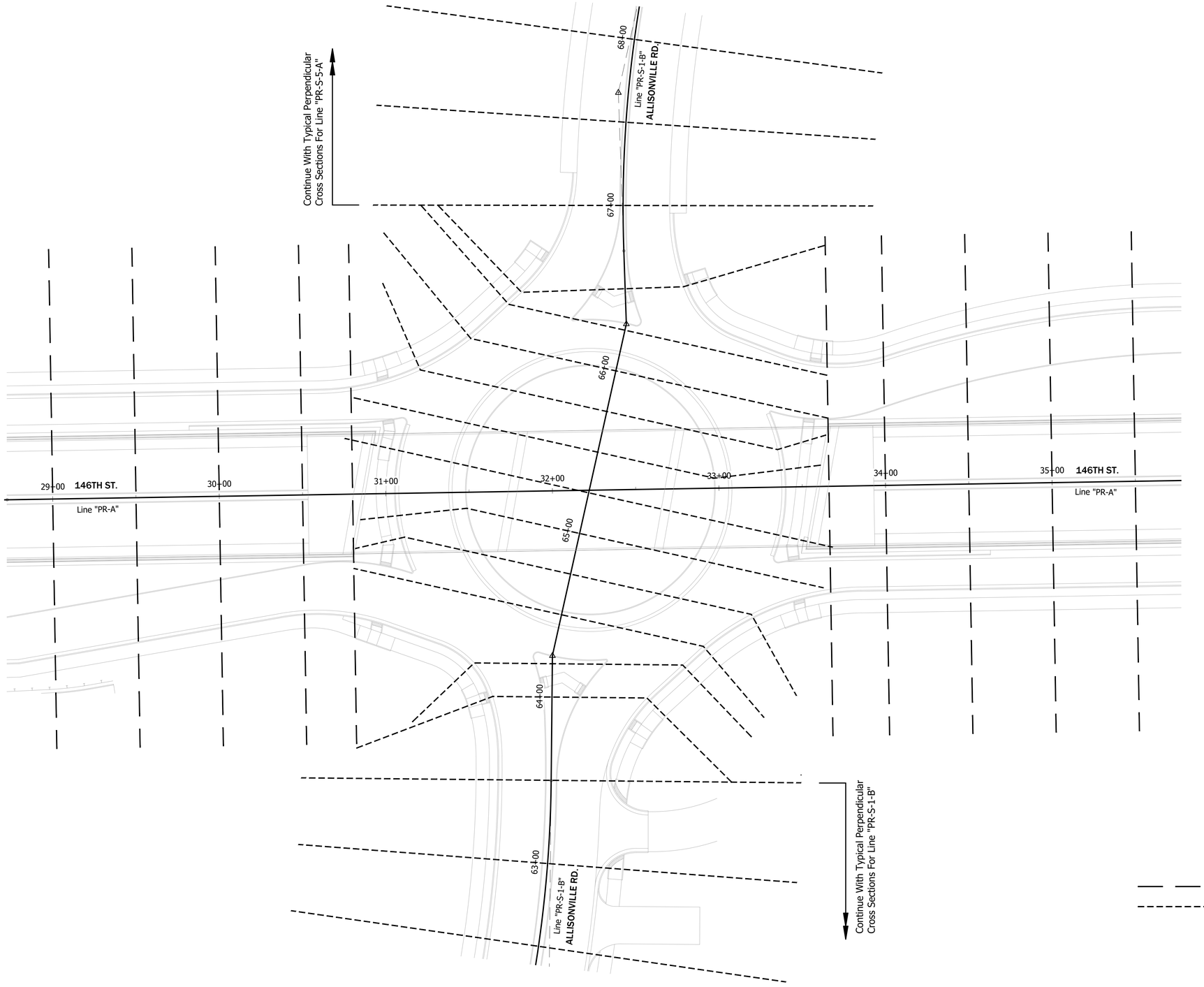
RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: AJA DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE LINE "C"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	-
VERTICAL SCALE	DESIGNATION
1" = 5'	1801421
SURVEY BOOK	SHEETS
-	84 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\RDVC2D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections Layout.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

STAGE 2
PLANS

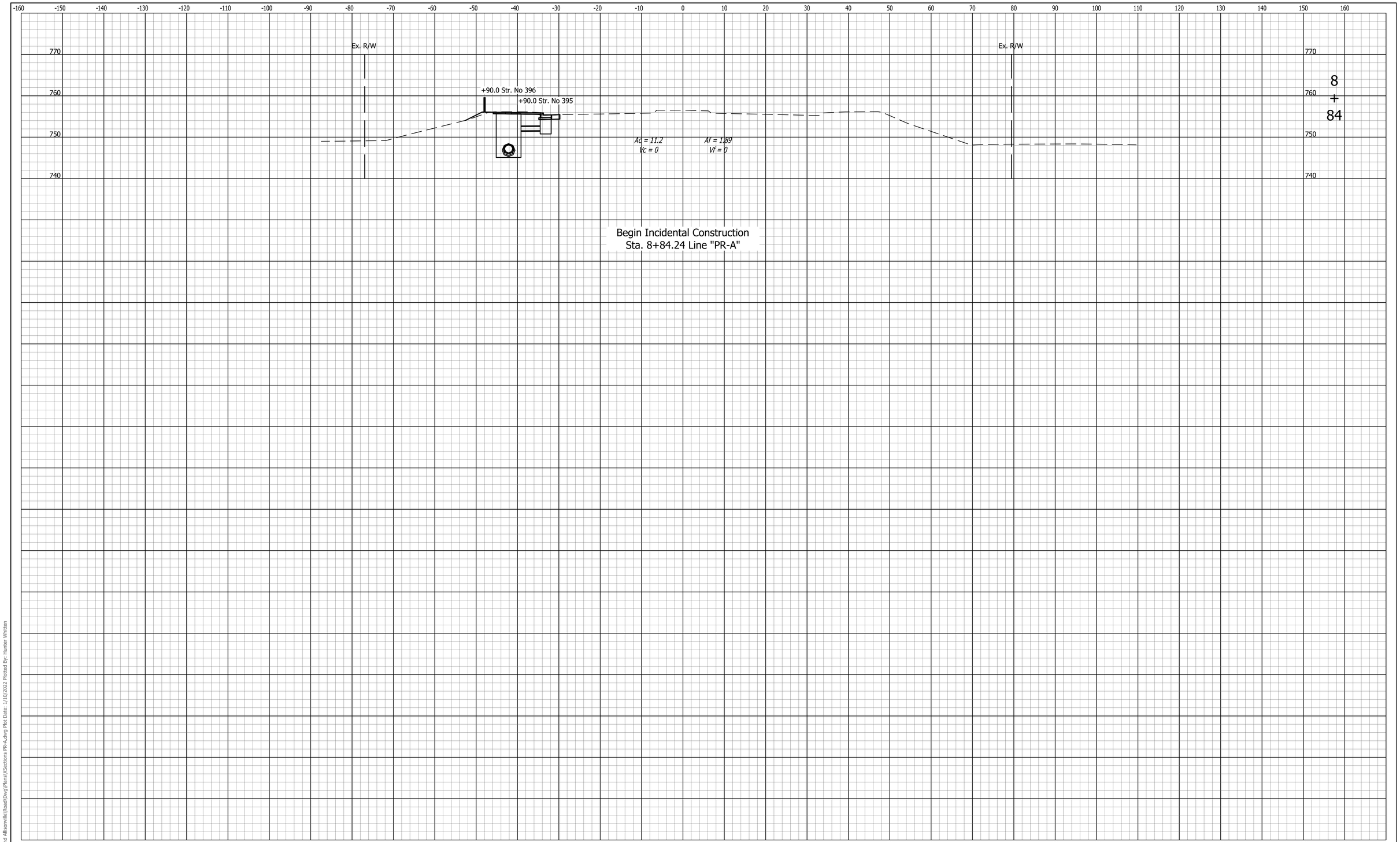
RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
NON-TYPICAL SECTION LOCATIONS

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
N/A	1801421
SURVEY BOOK	SHEETS
-	147 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\PDI\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

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

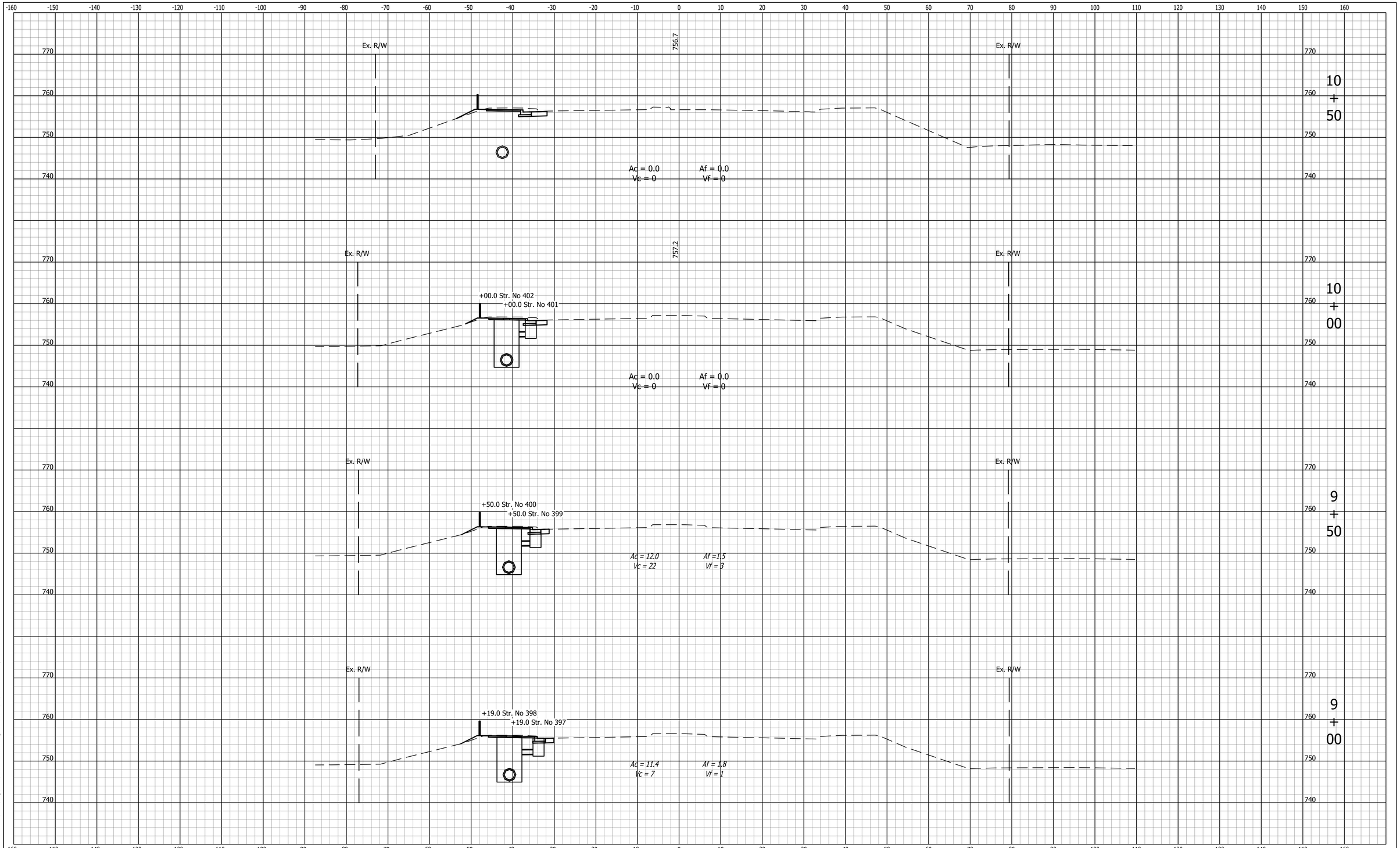
RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: TBL DRAWN: HSW
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	148 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Sections PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

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

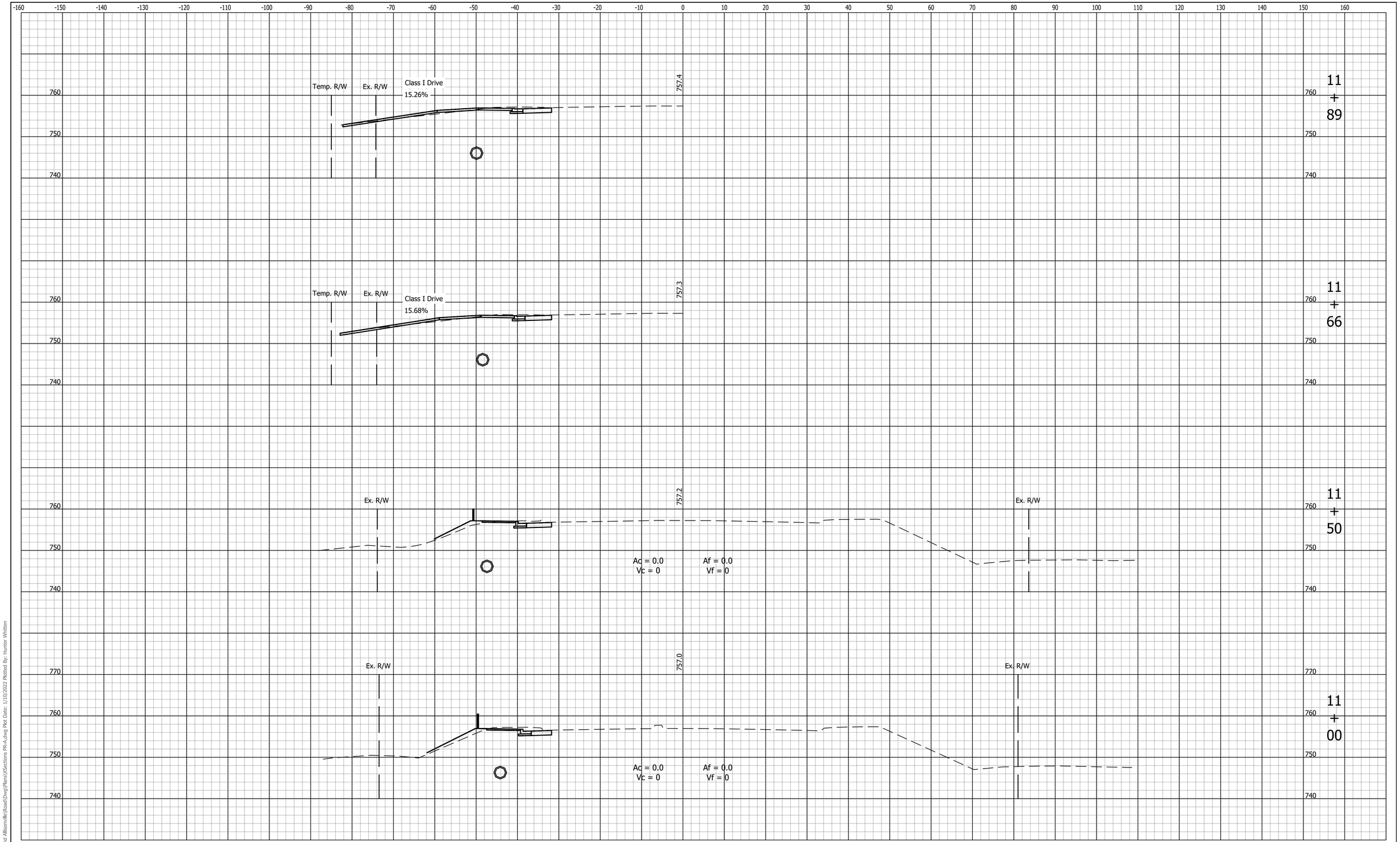
RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: TBL DRAWN: HSW
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	149 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\PDI\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

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

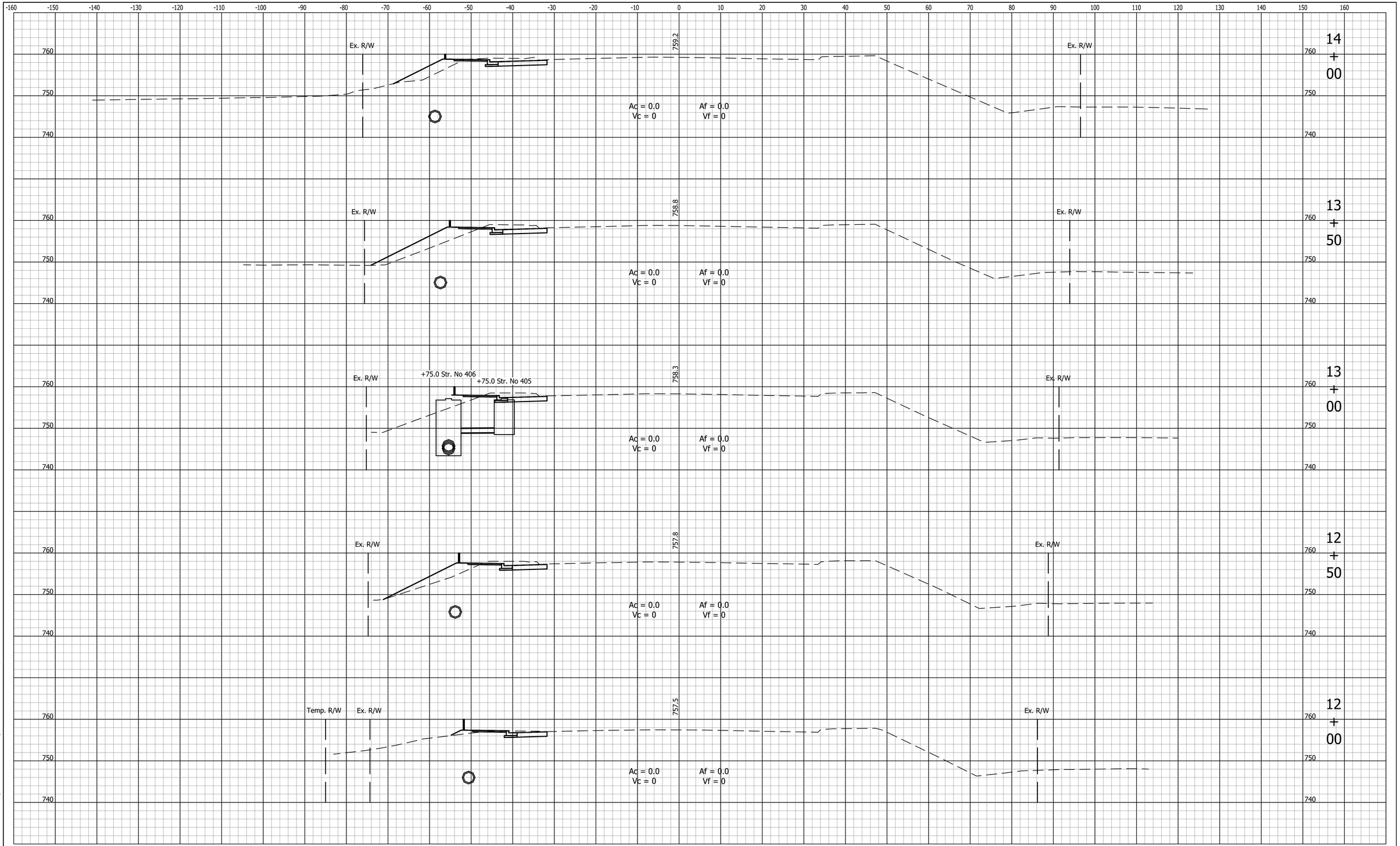
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	150 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\BDI\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

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

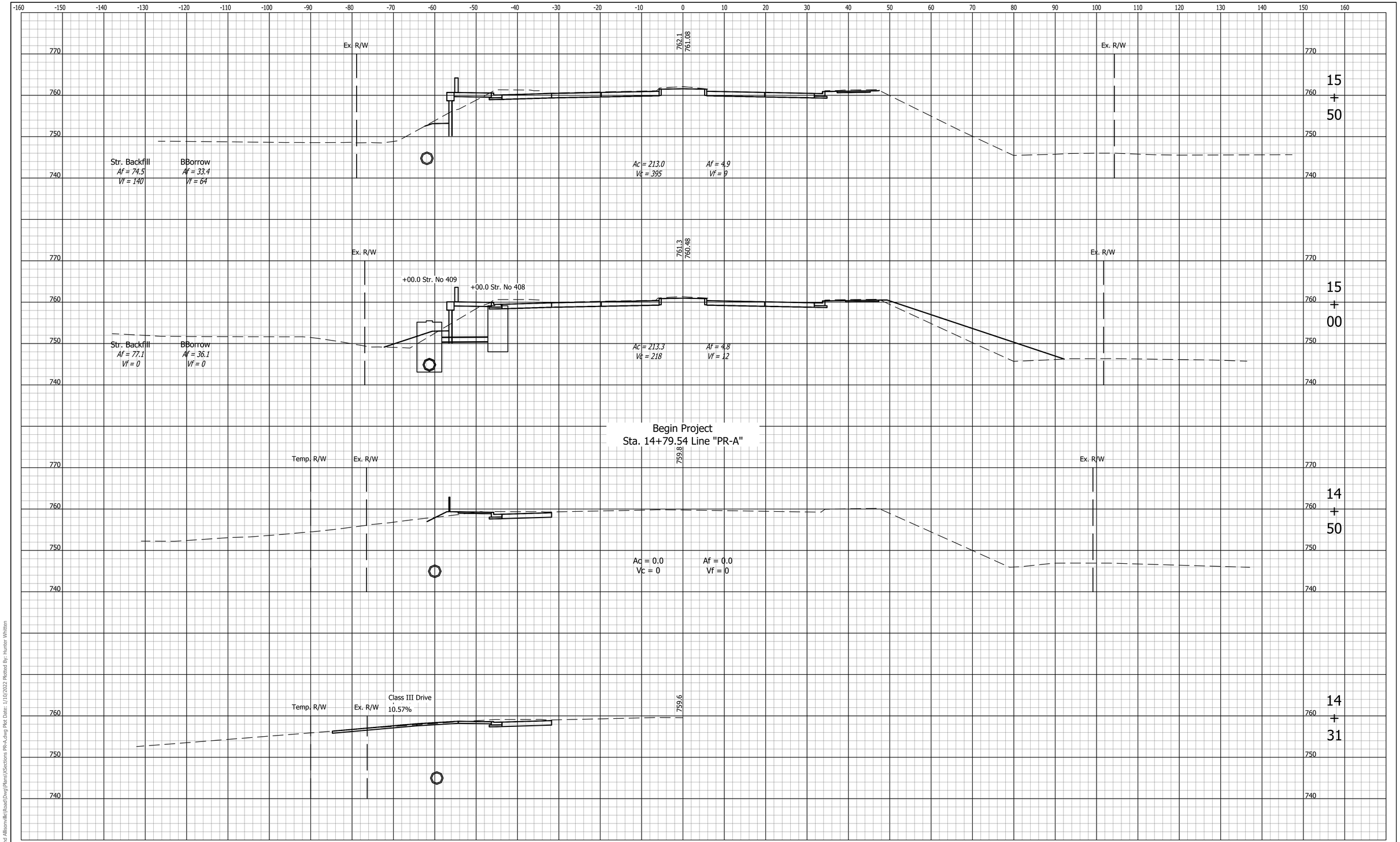
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	151 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\PDI\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

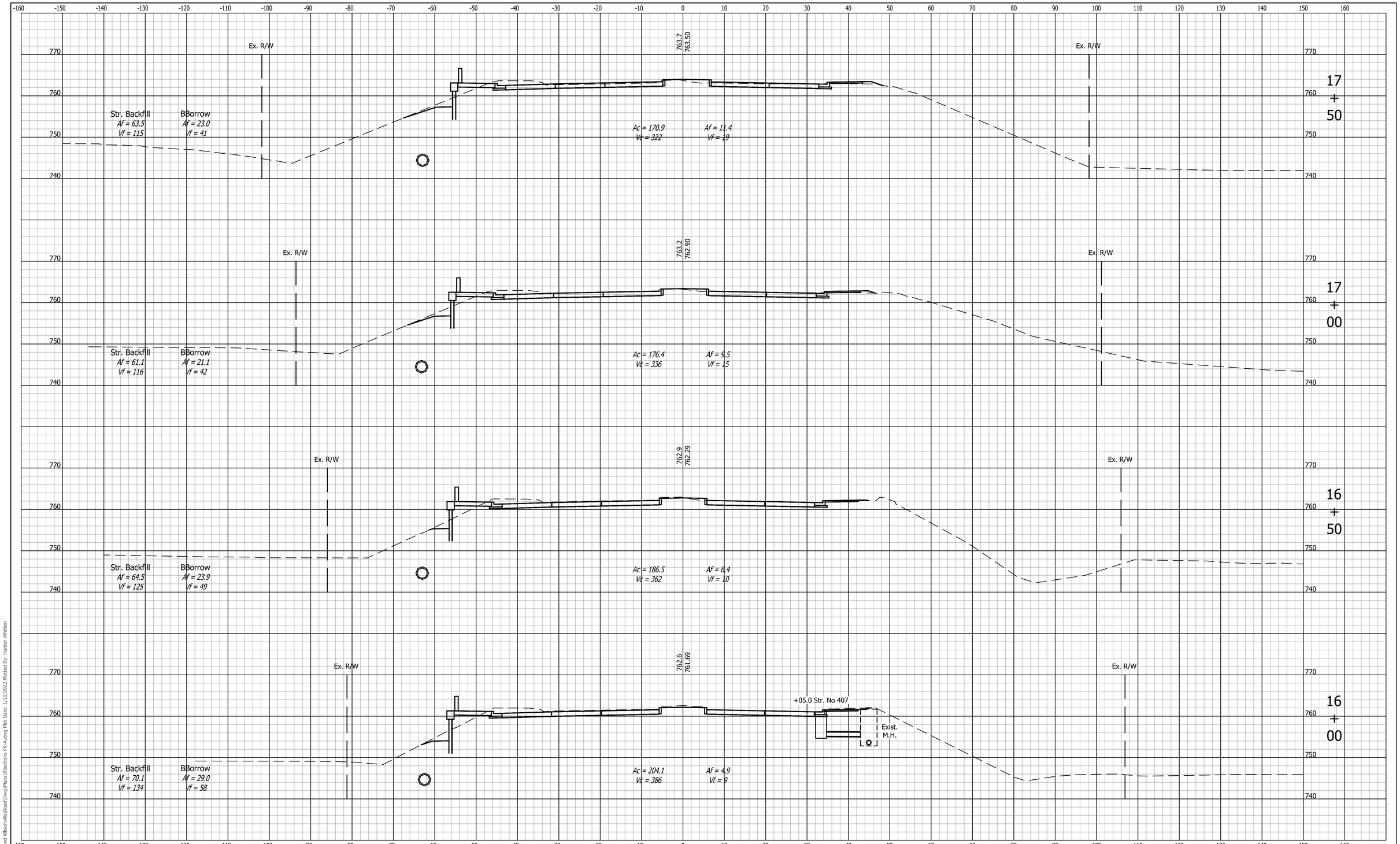
DESIGNED: TBL DRAWN: JNII

CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	152 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-A.dwg Plot Date: 1/10/2023 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER DATE

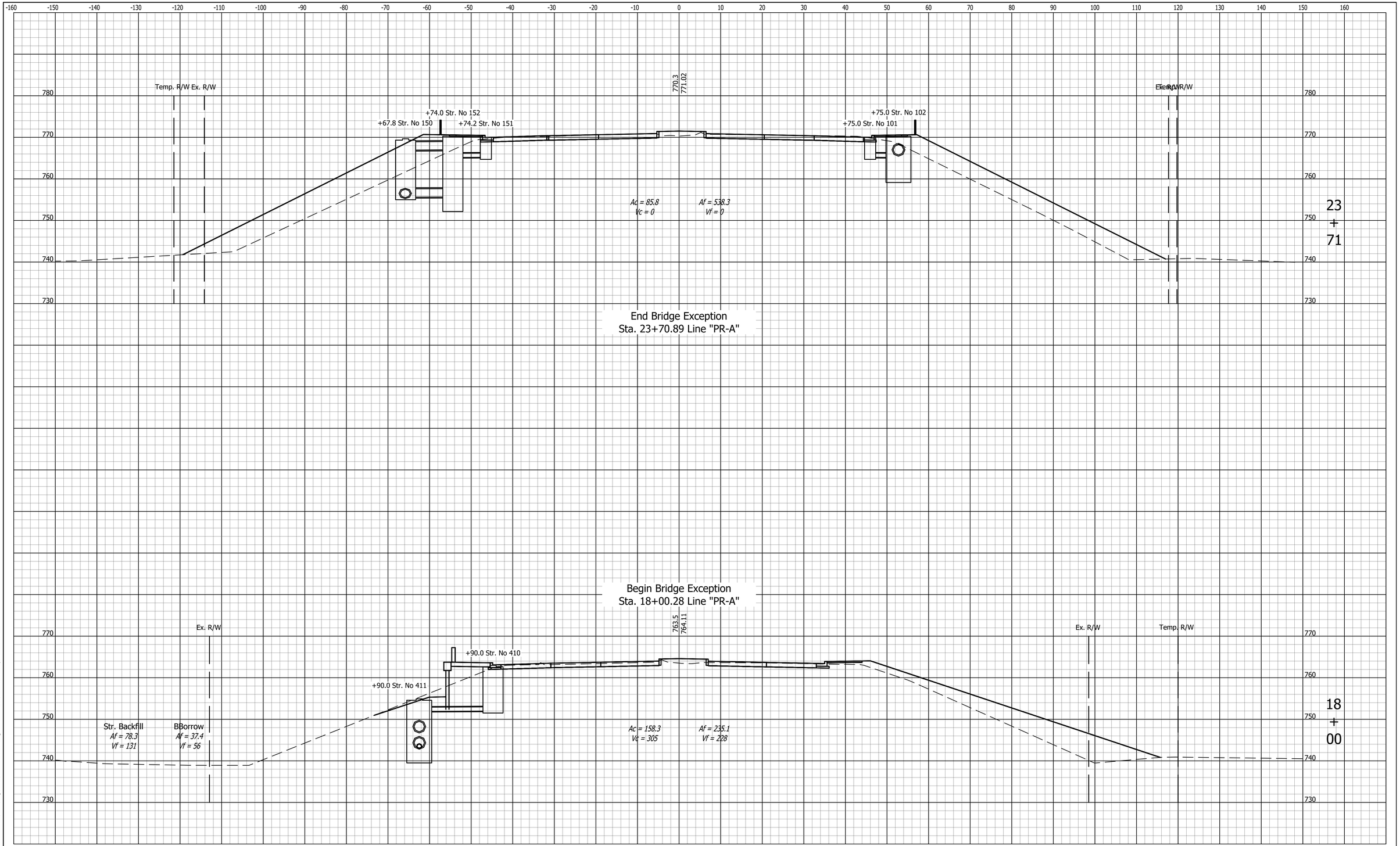
DESIGNED: TBL DRAWN: JNII

CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	153 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\PDI\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

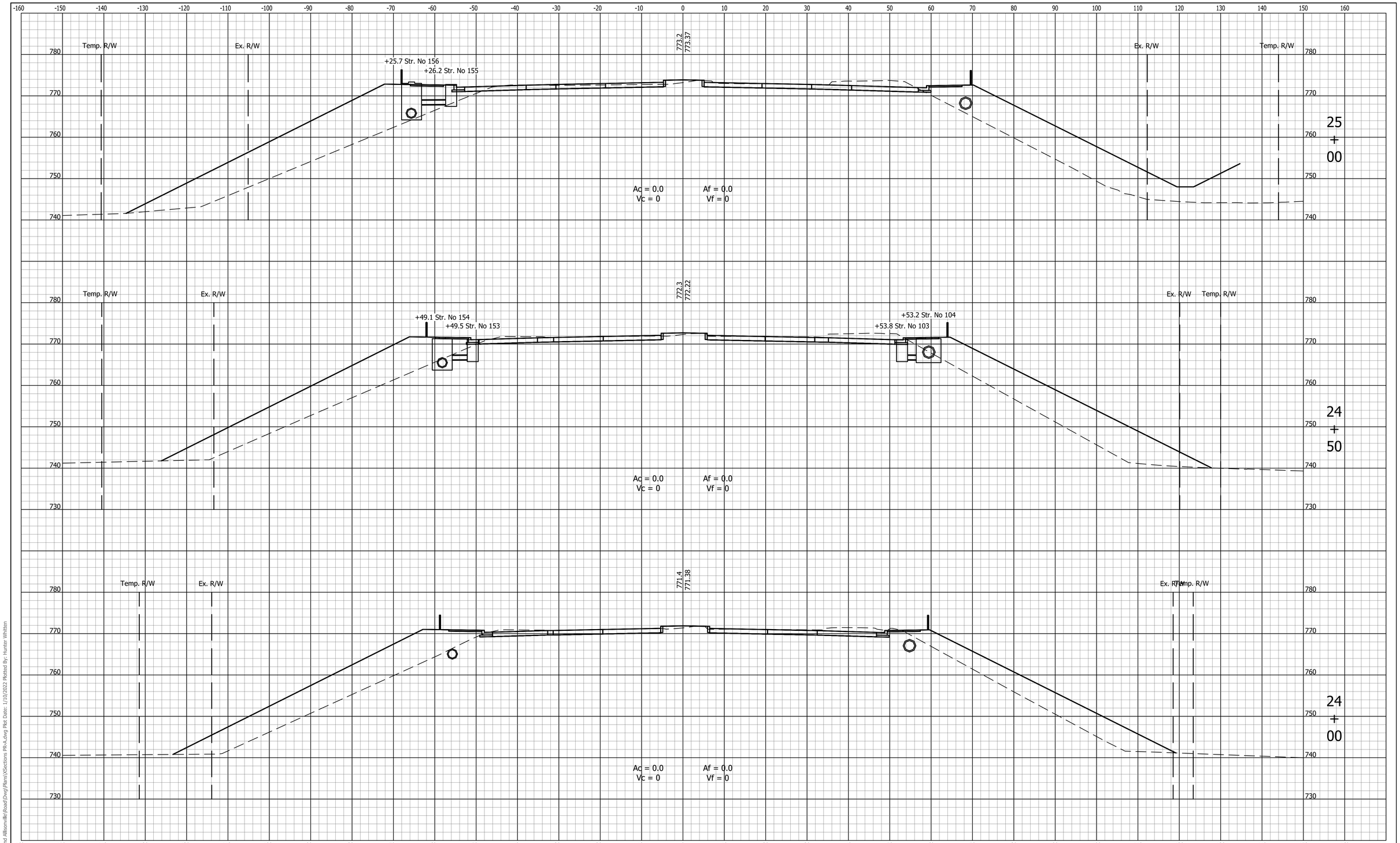
DESIGNED: TBL | DRAWN: JNII

CHECKED: CCR | CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	154 of 186
CONTRACT	PROJECT
R-41313	1801421



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

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

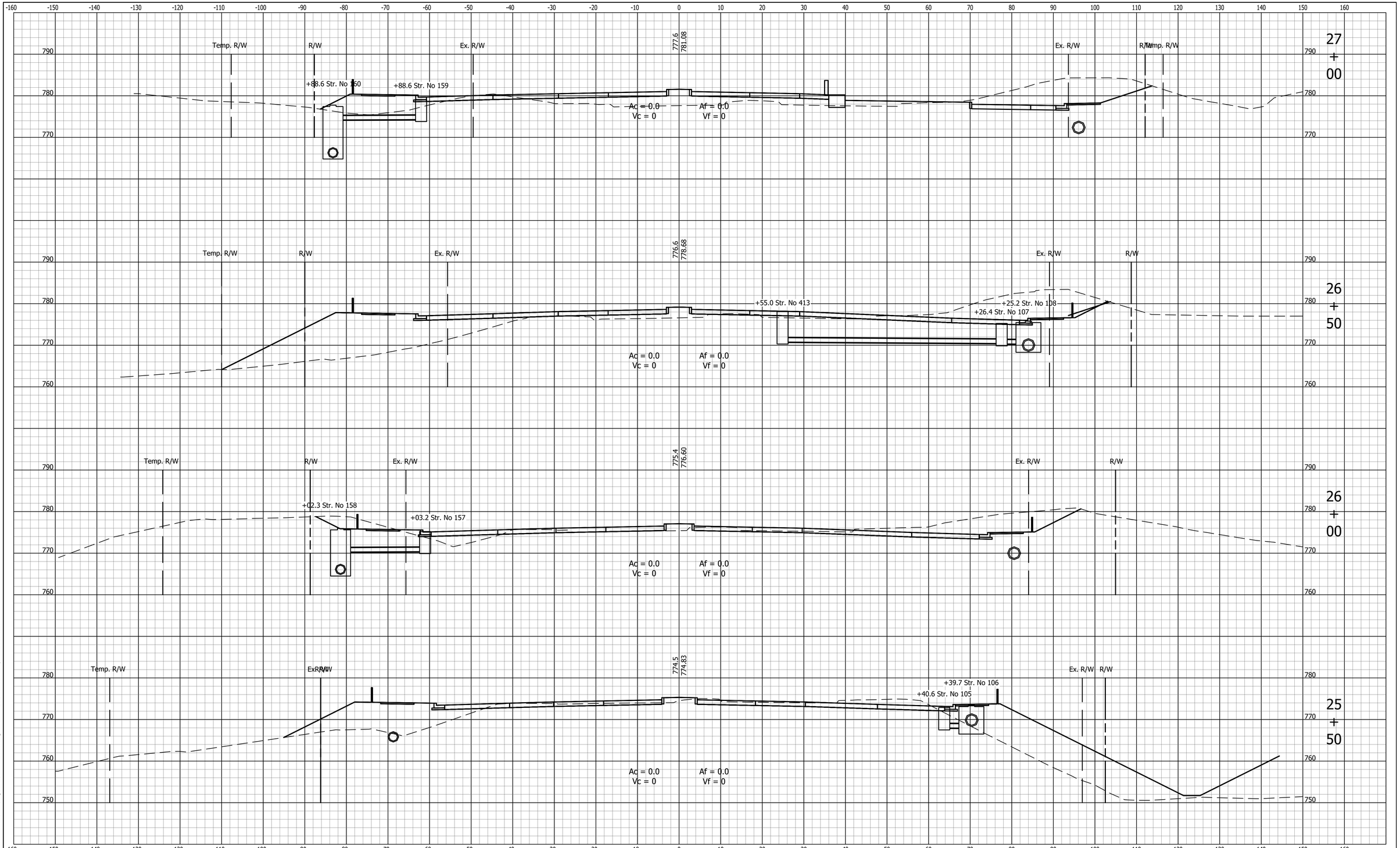
DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	155 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\RD\(C3D)\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

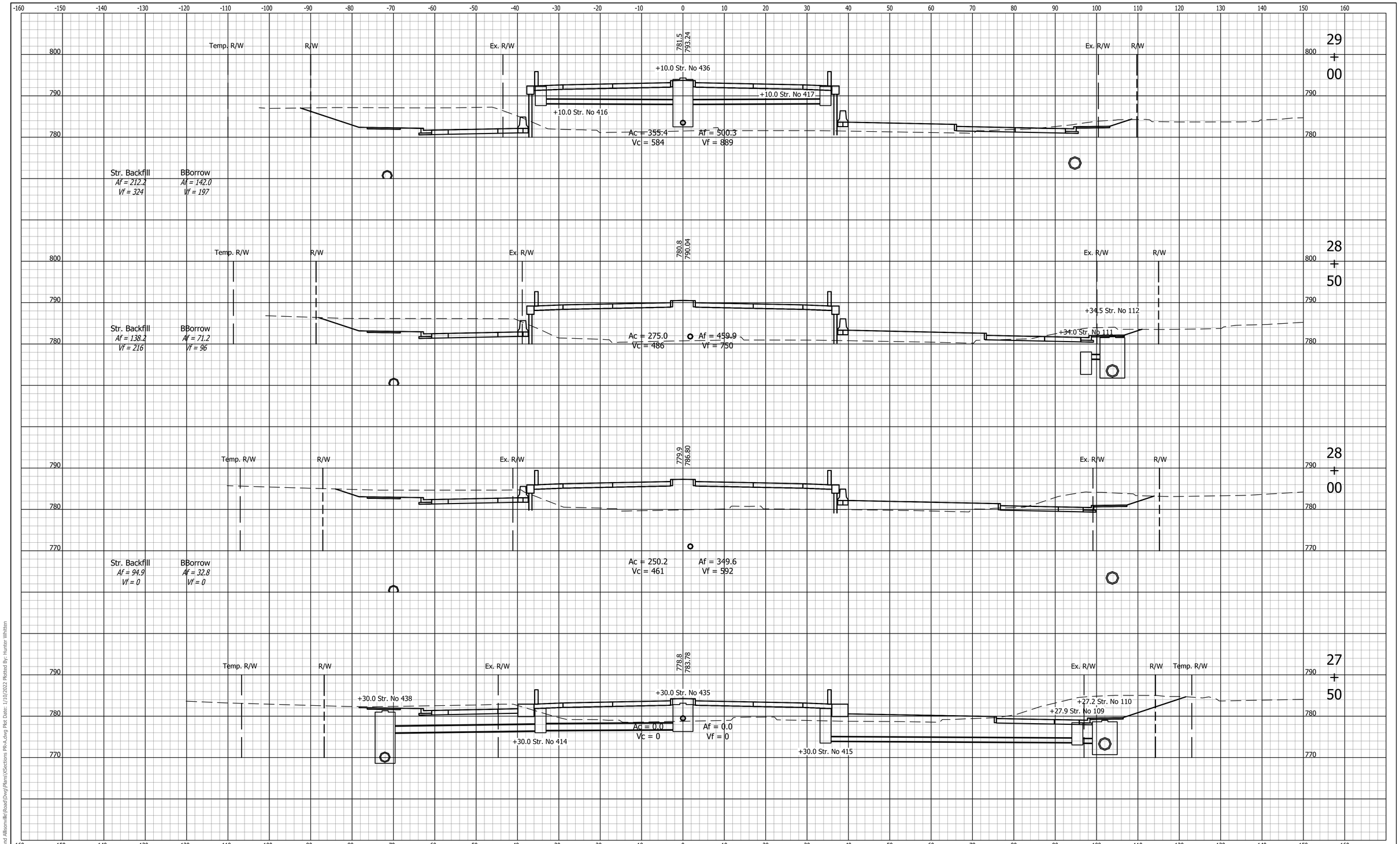
DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	156 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Sections PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



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

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

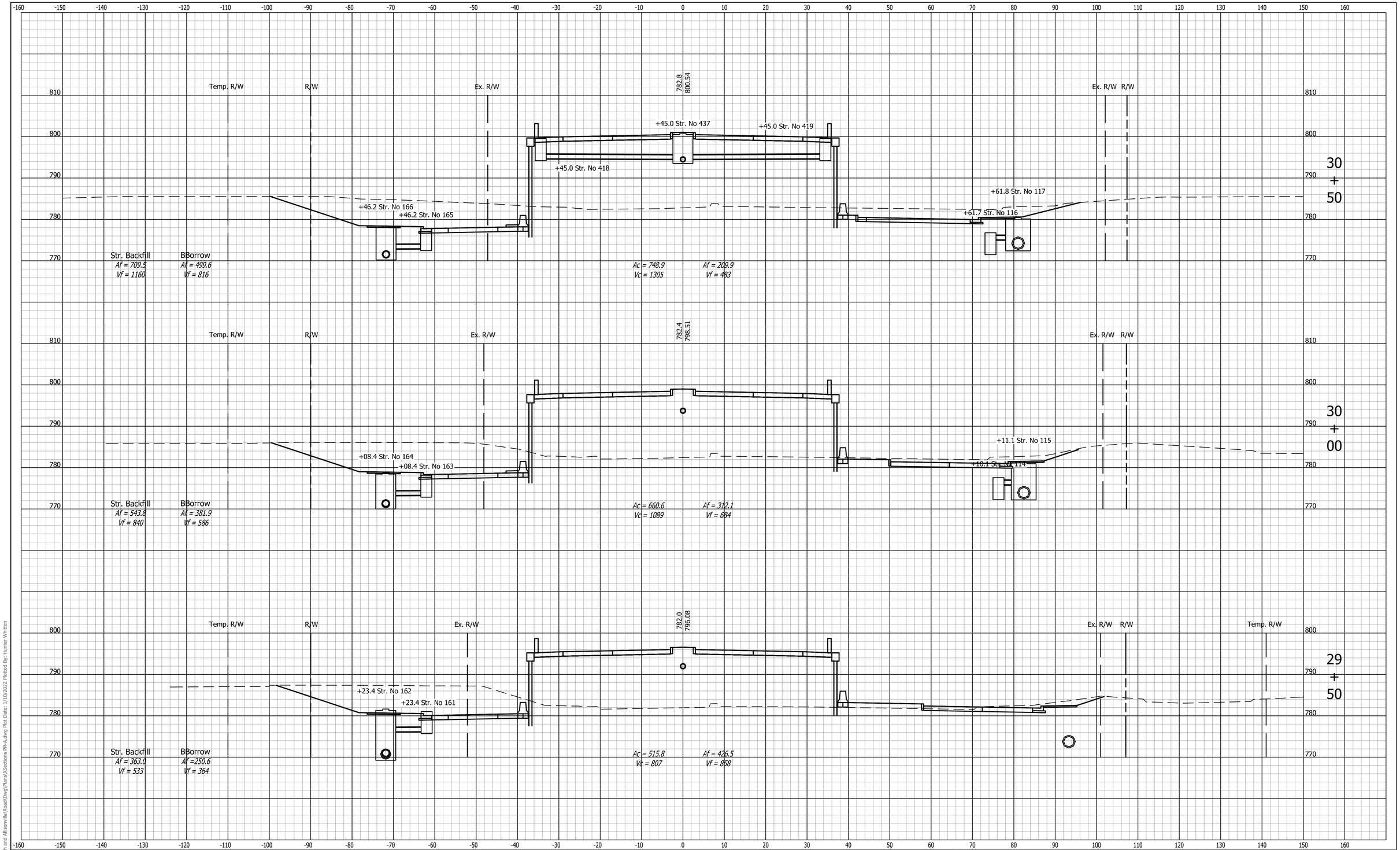
DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	157 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Sections PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

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

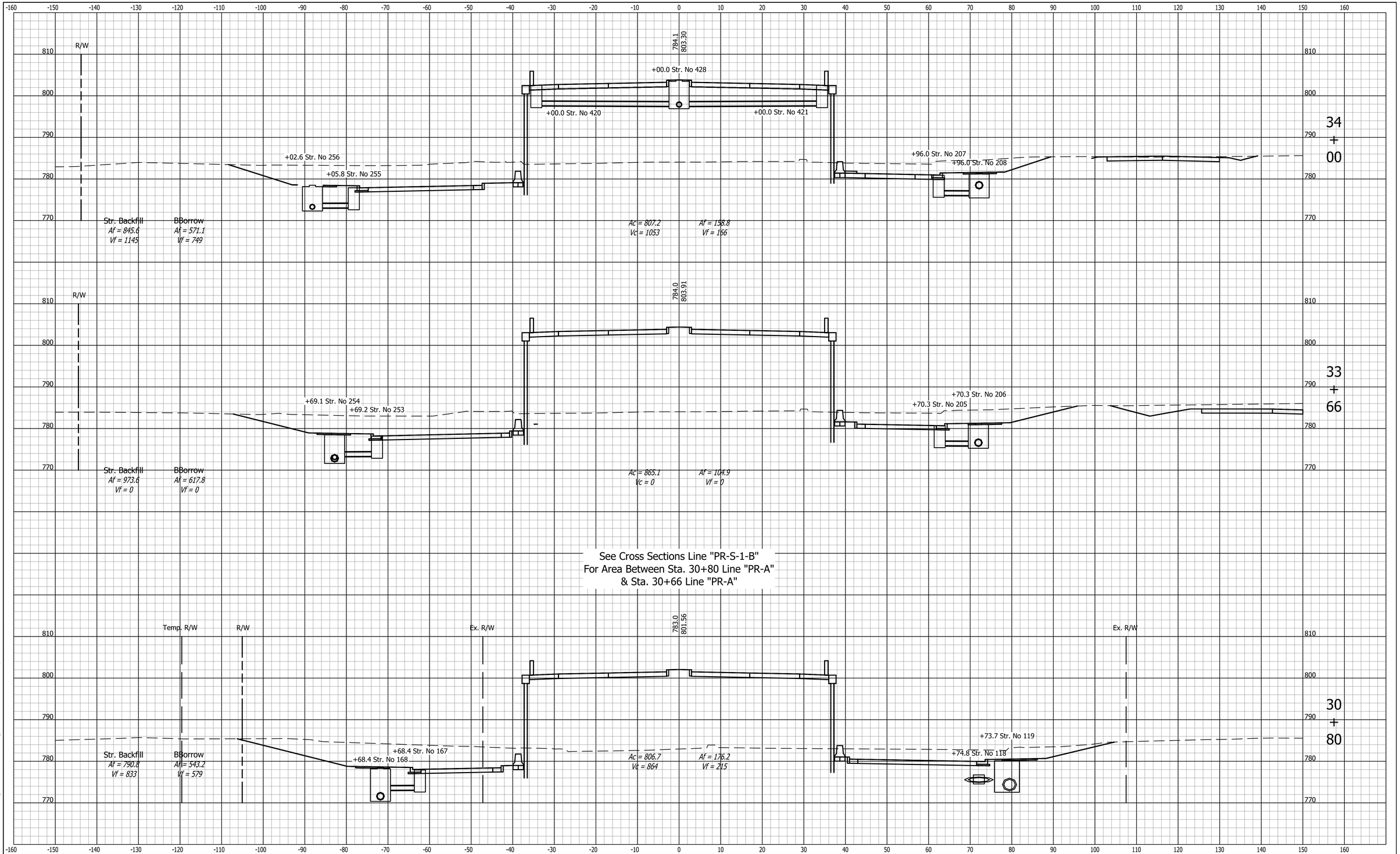
RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	158 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\PDI\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

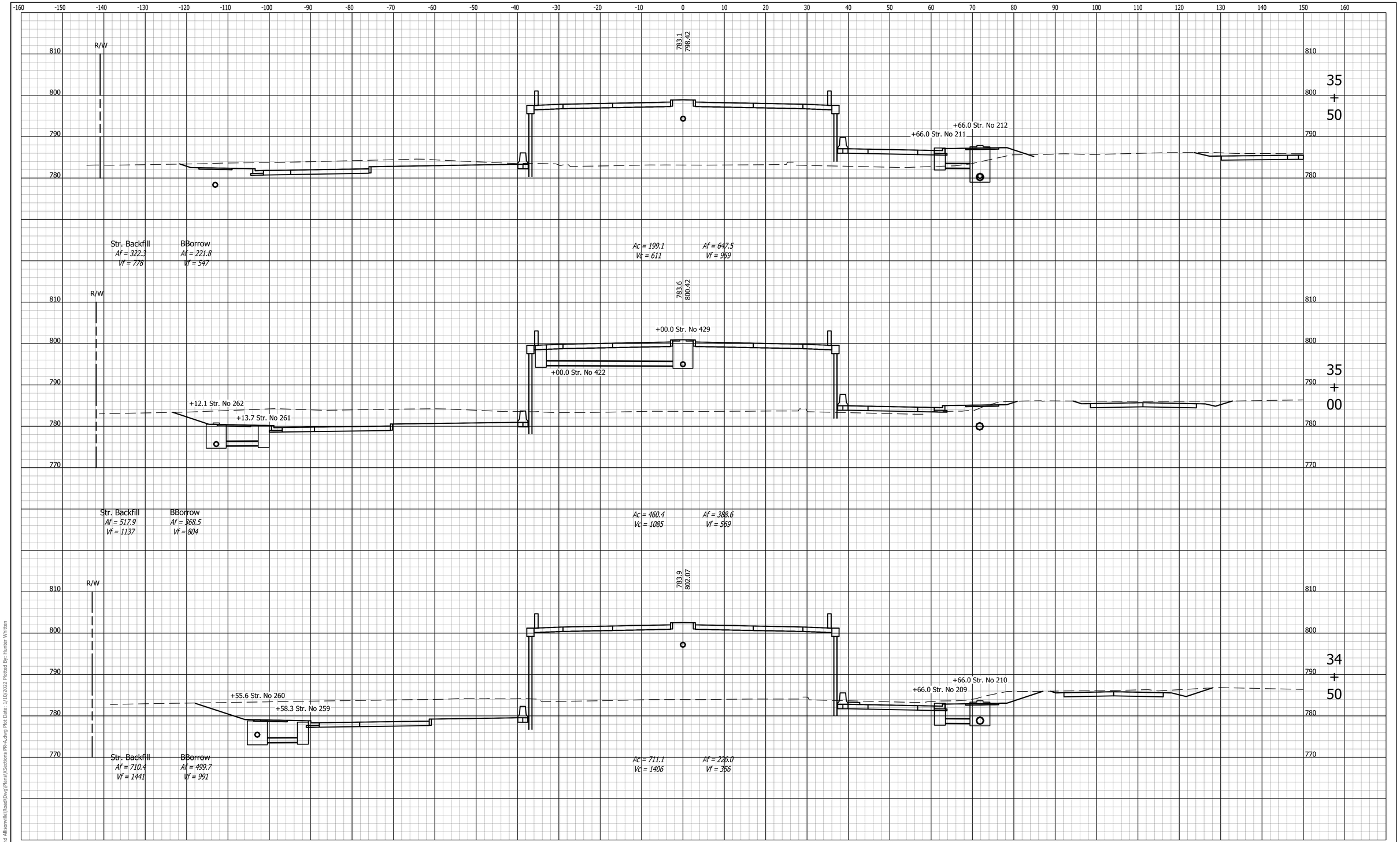
DESIGNED: TBL DRAWN: JNII

CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	159 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\PDI\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

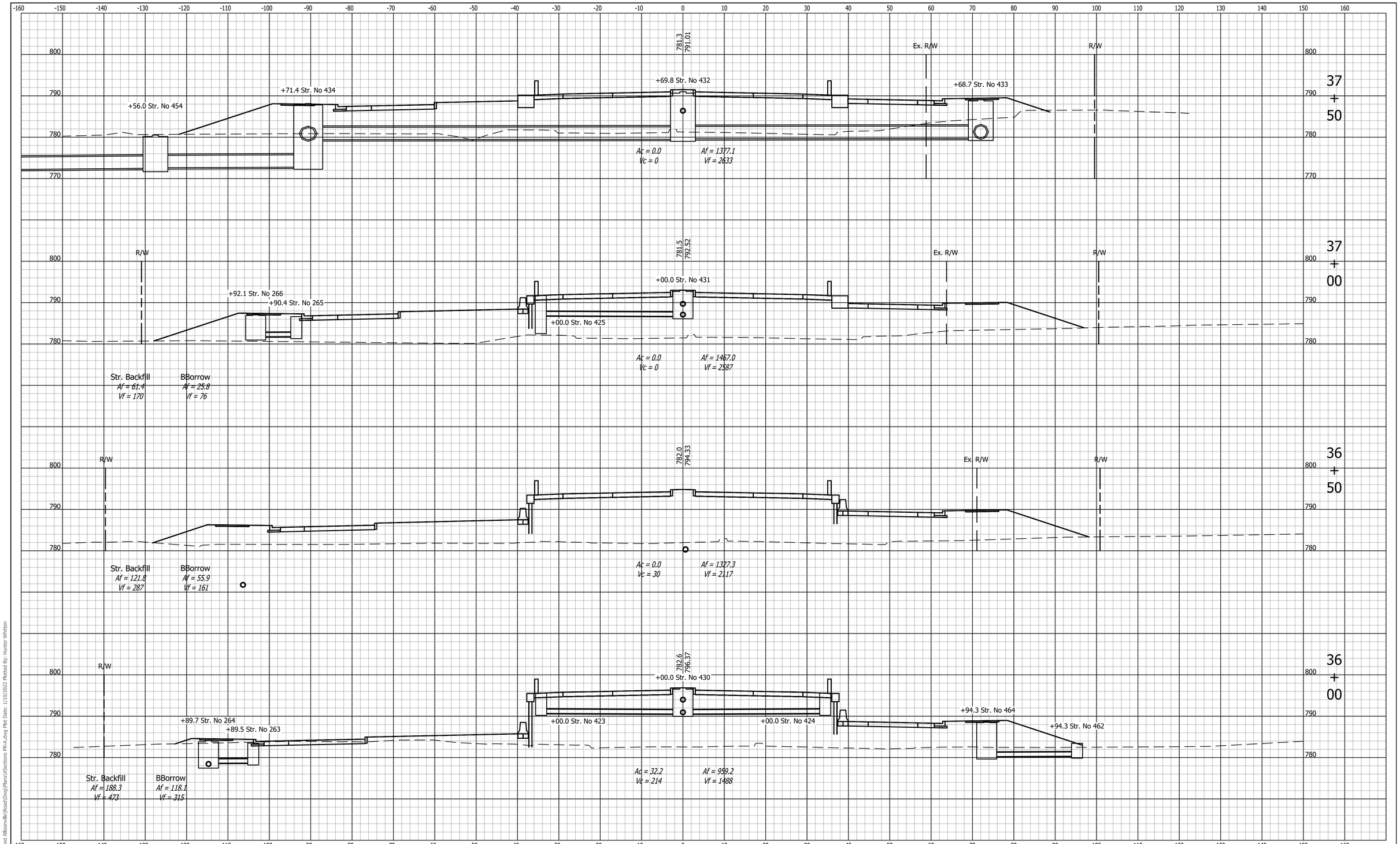
DESIGNED: TBL DRAWN: JNII

CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	160 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Sections PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER DATE

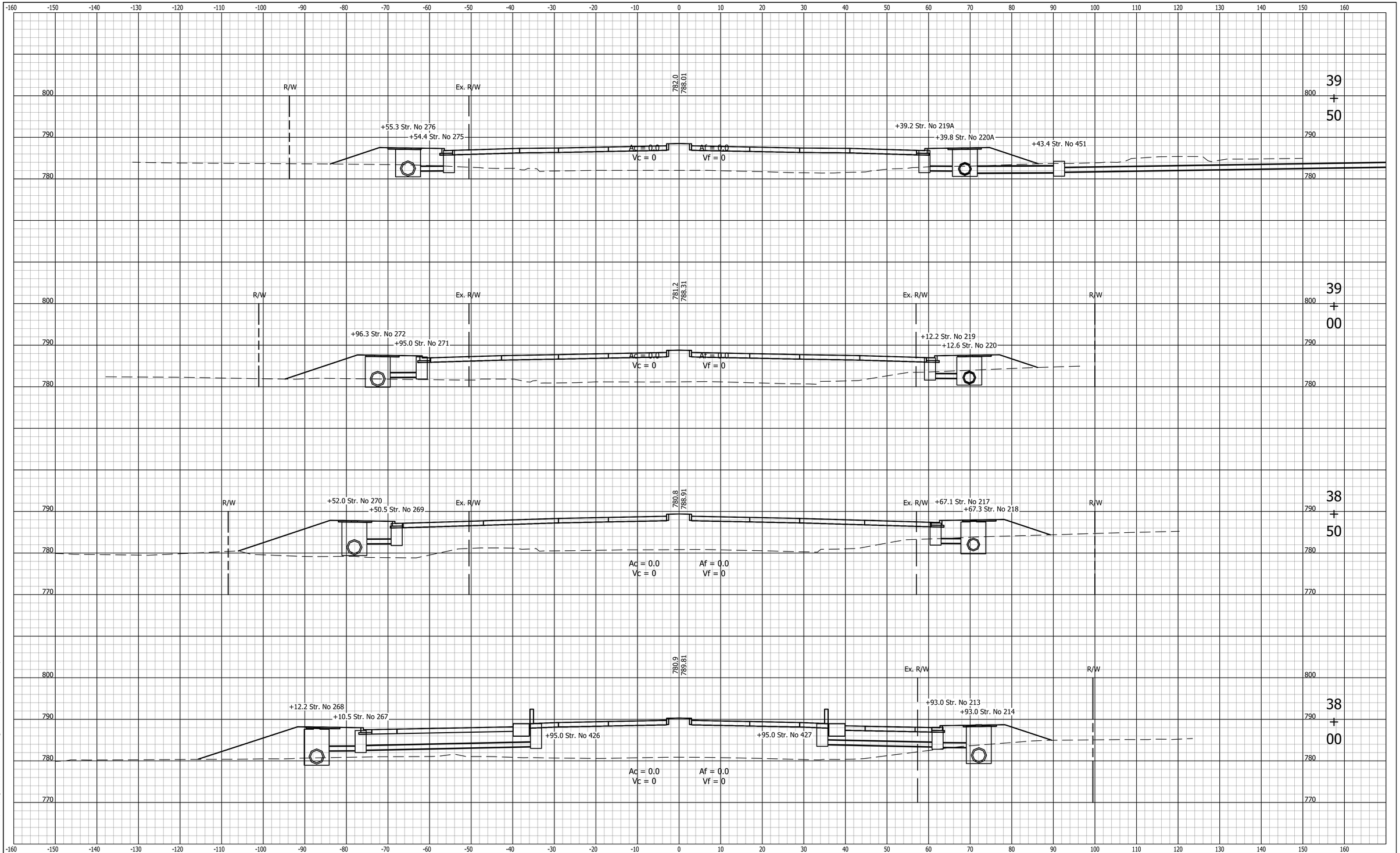
DESIGNED: TBL DRAWN: JNII

CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	161 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\PDI\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

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

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

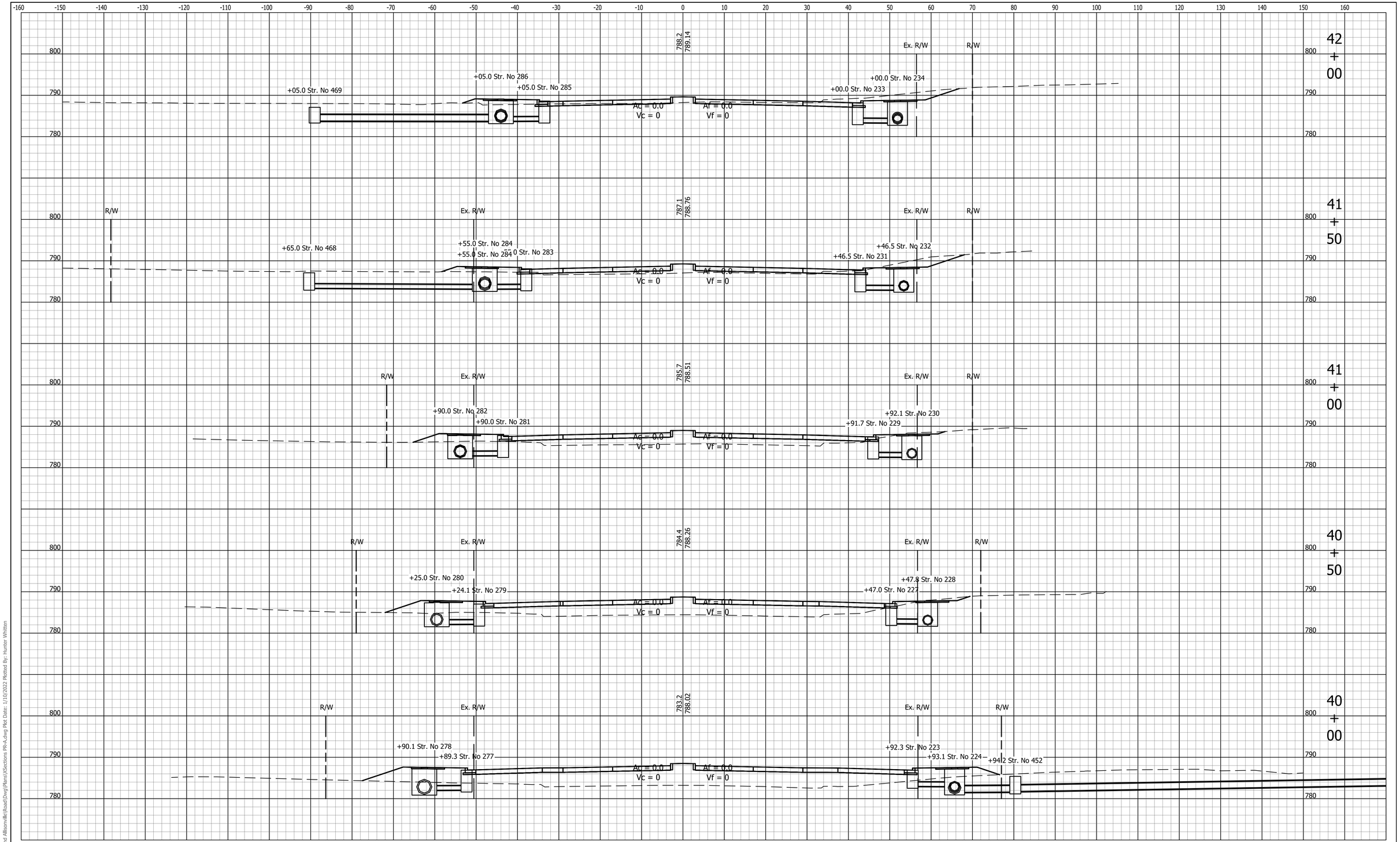
DESIGNED: TBL DRAWN: JNII

CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	162 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\PDI\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

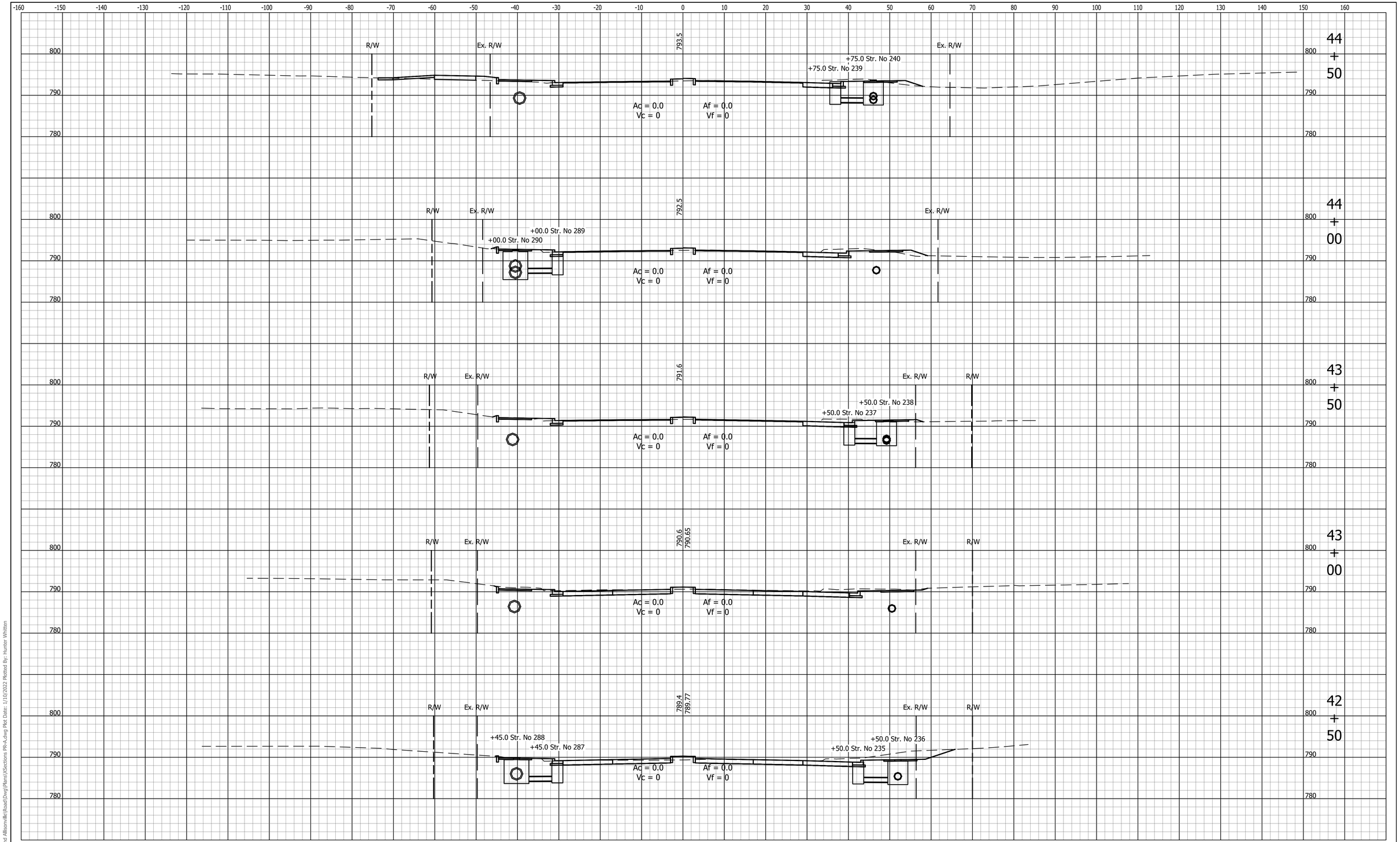
DESIGNED: TBL | DRAWN: JNII

CHECKED: CCR | CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	163 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\PDI\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

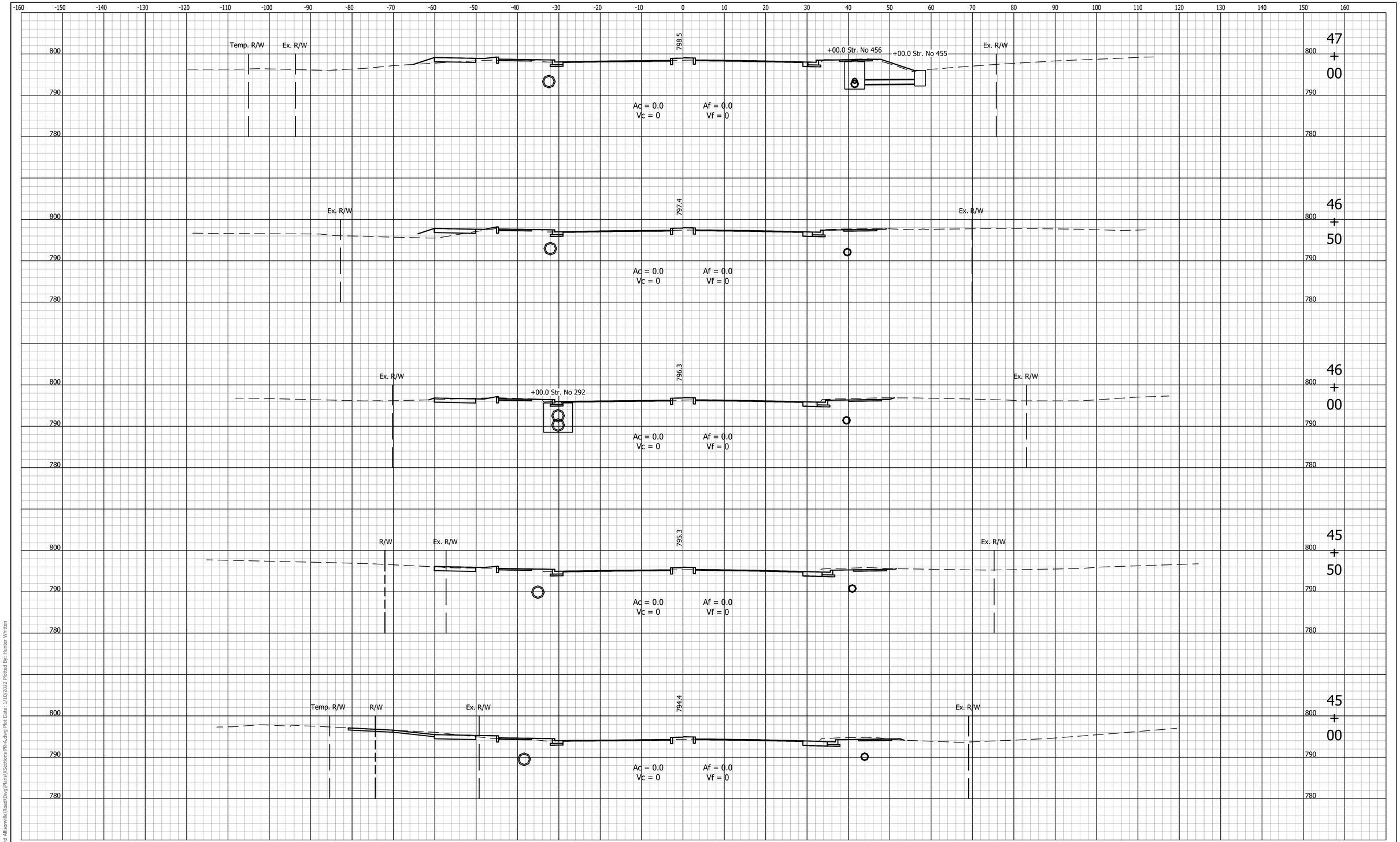
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: TBL | DRAWN: JNII
CHECKED: CCR | CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	164 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\PDI\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

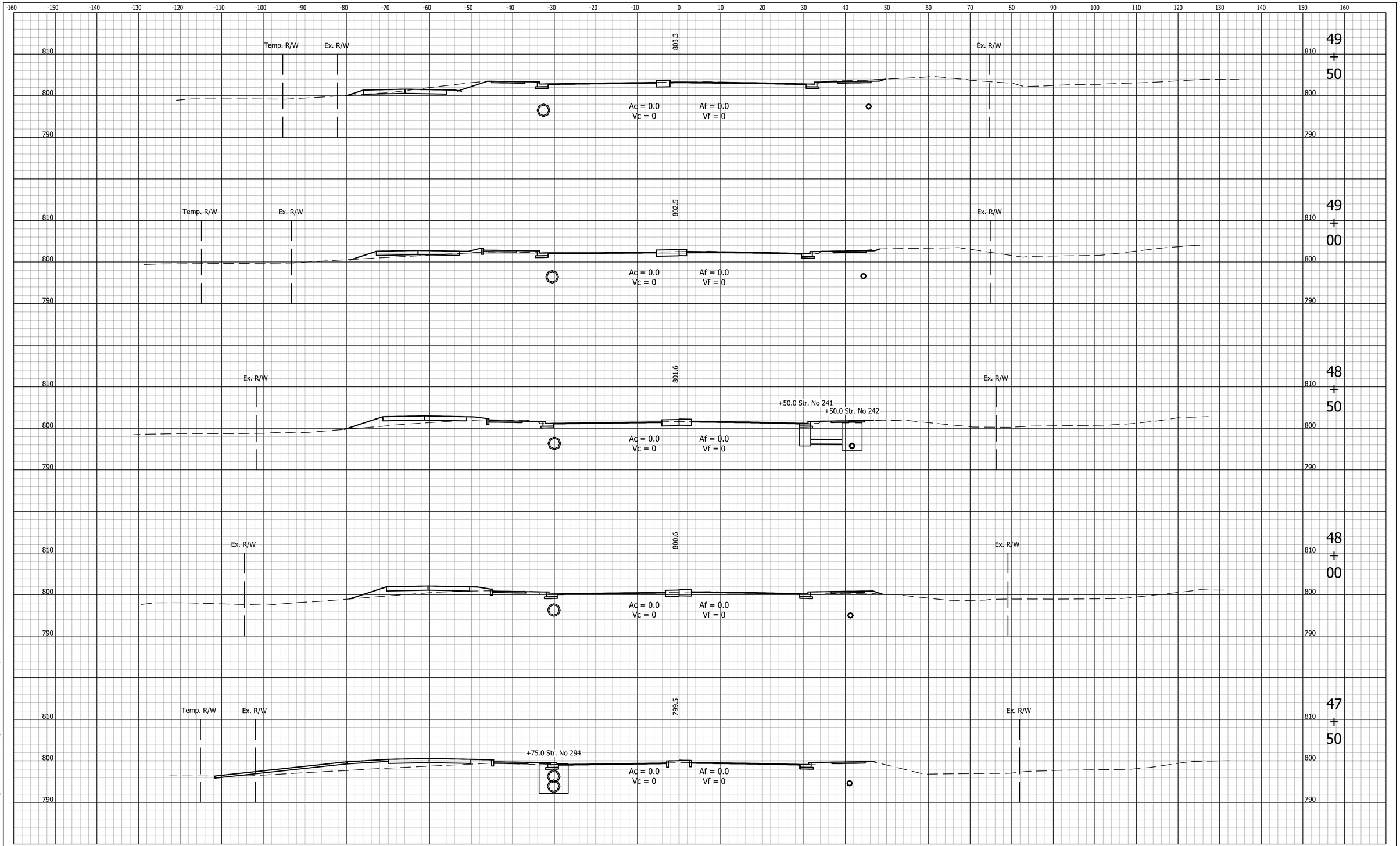
DESIGNED: TBL DRAWN: JNII

CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	165 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\PDI\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

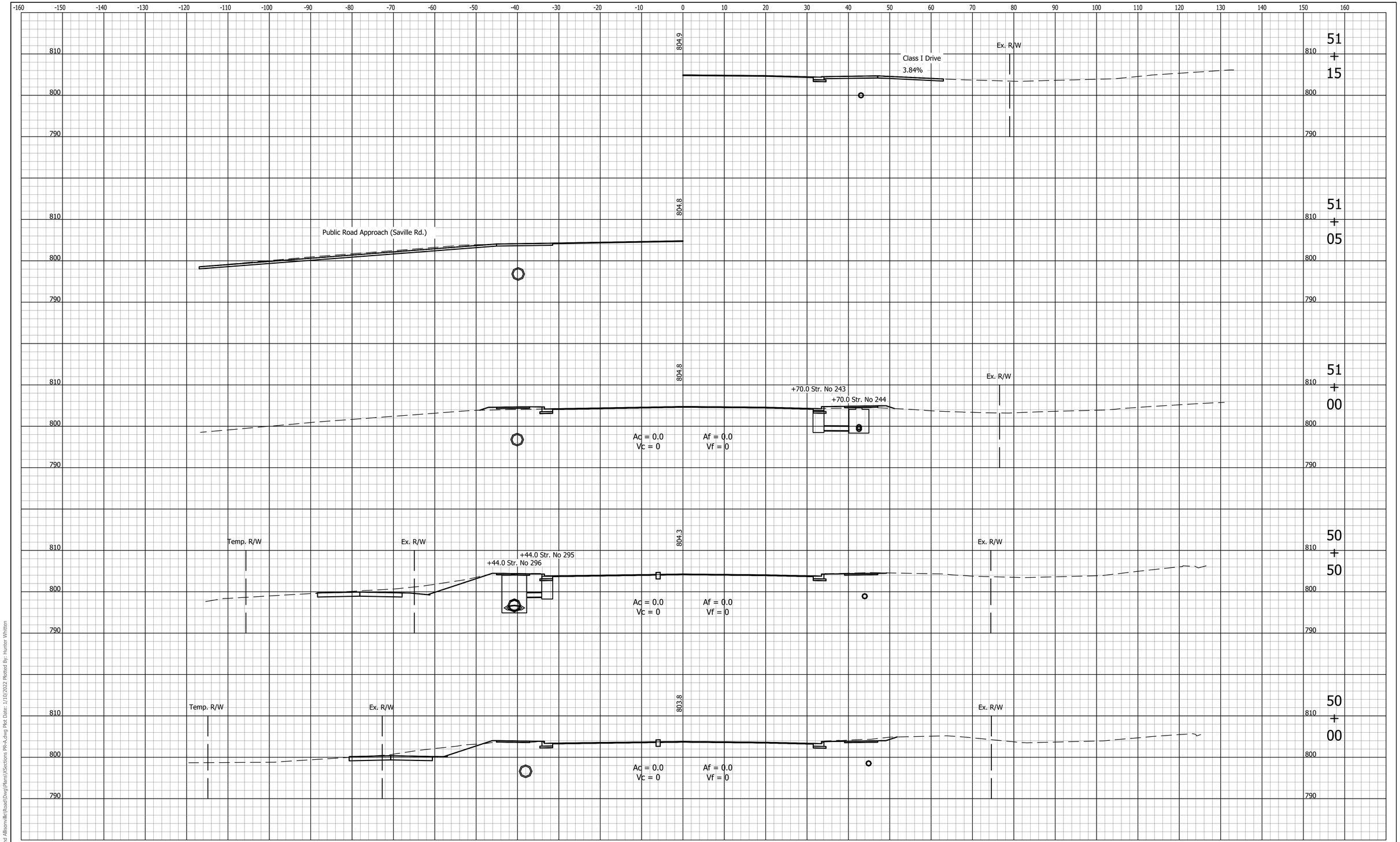
DESIGNED: TBL DRAWN: JNII

CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	166 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\PD\(C3D)\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

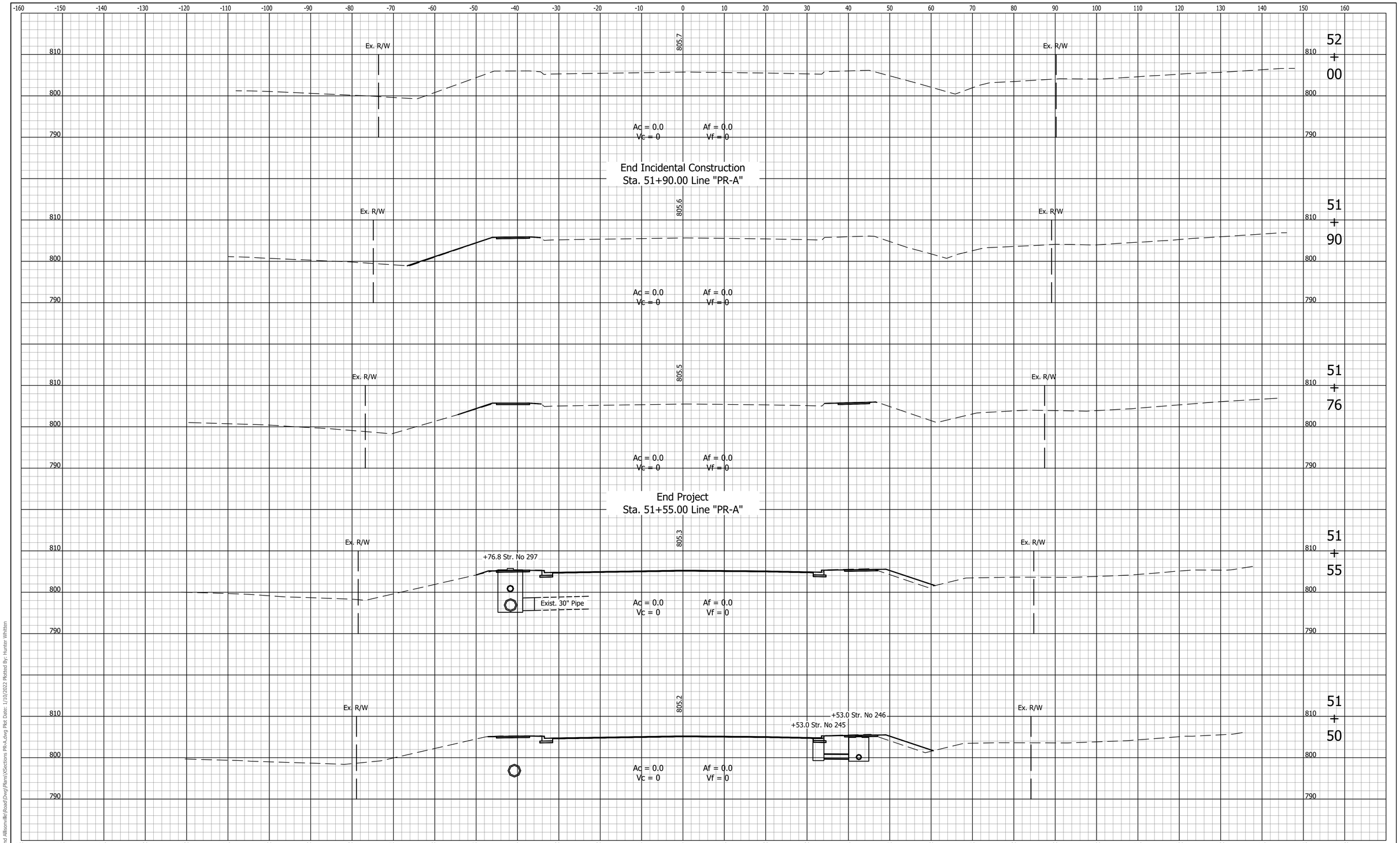
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: TBL | DRAWN: JNII
CHECKED: CCR | CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	167 of 186
CONTRACT	PROJECT
R-41313	1801421



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

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

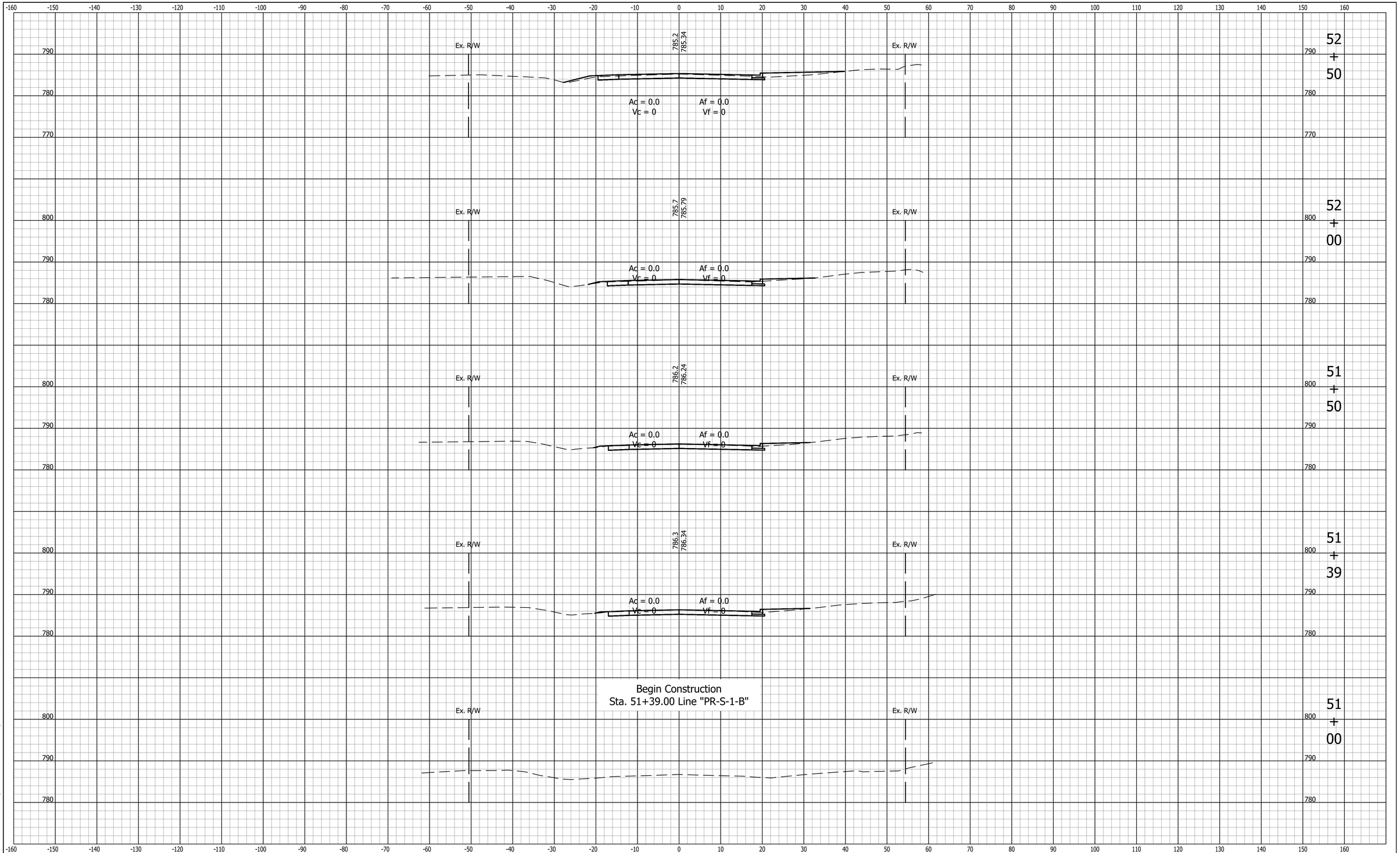
DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	168 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\RD\(C3D)\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-A.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



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

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

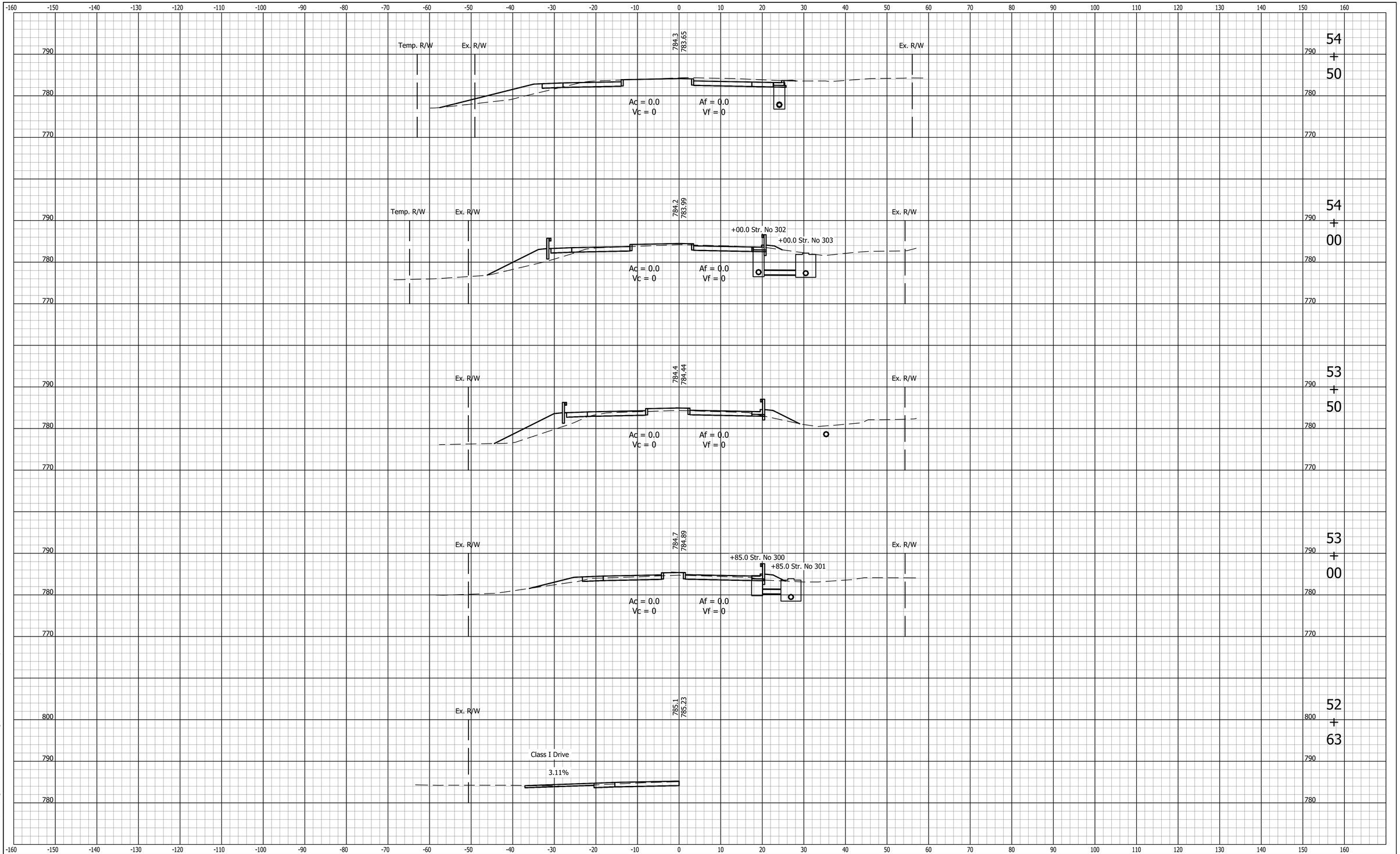
DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-S-1-B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	169 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\PDI\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-S-1-B.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



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

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

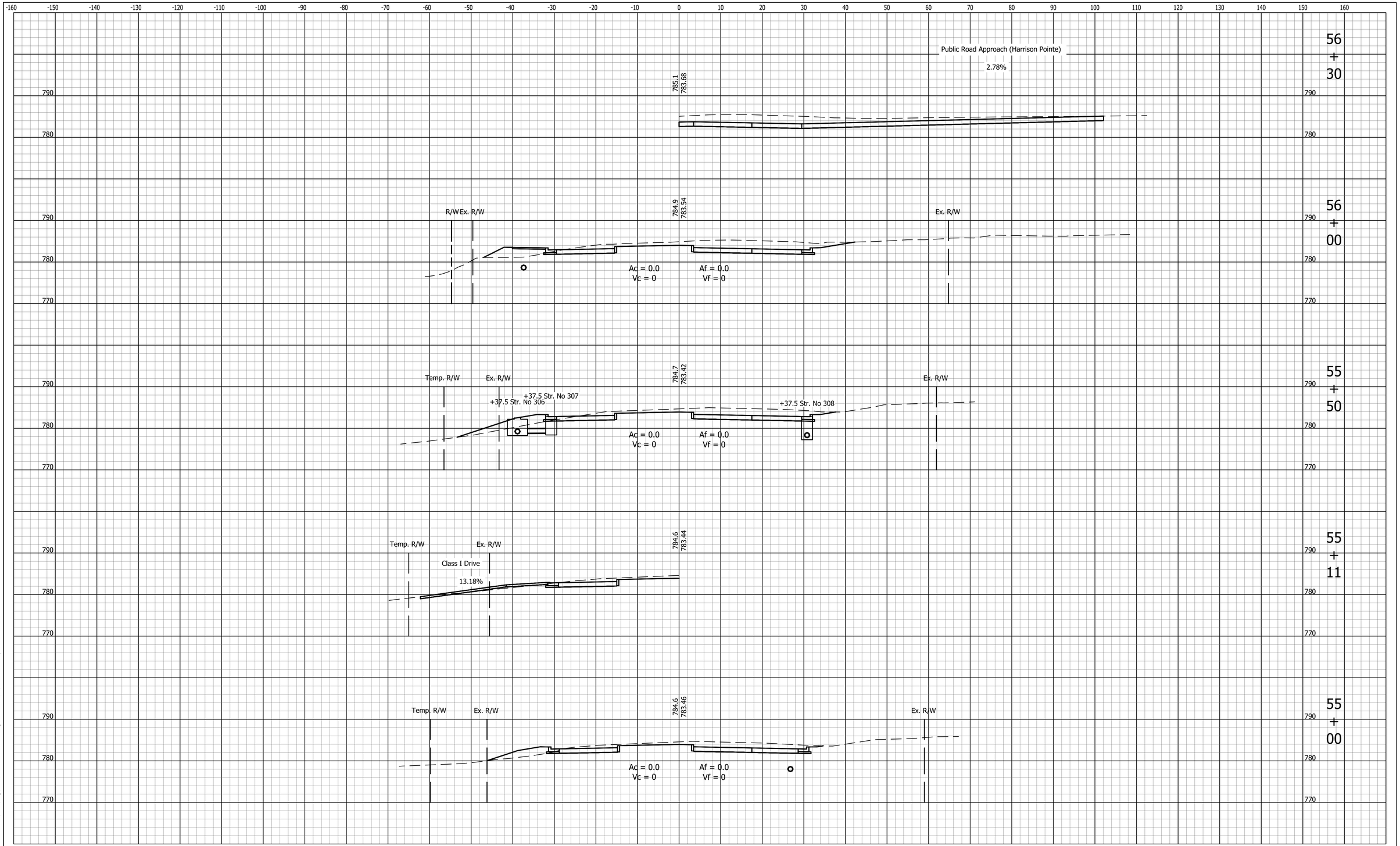
DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-S-1-B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	170 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\PDI\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-S-1-B.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



File Name: P:\PDI\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-S-1-B.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

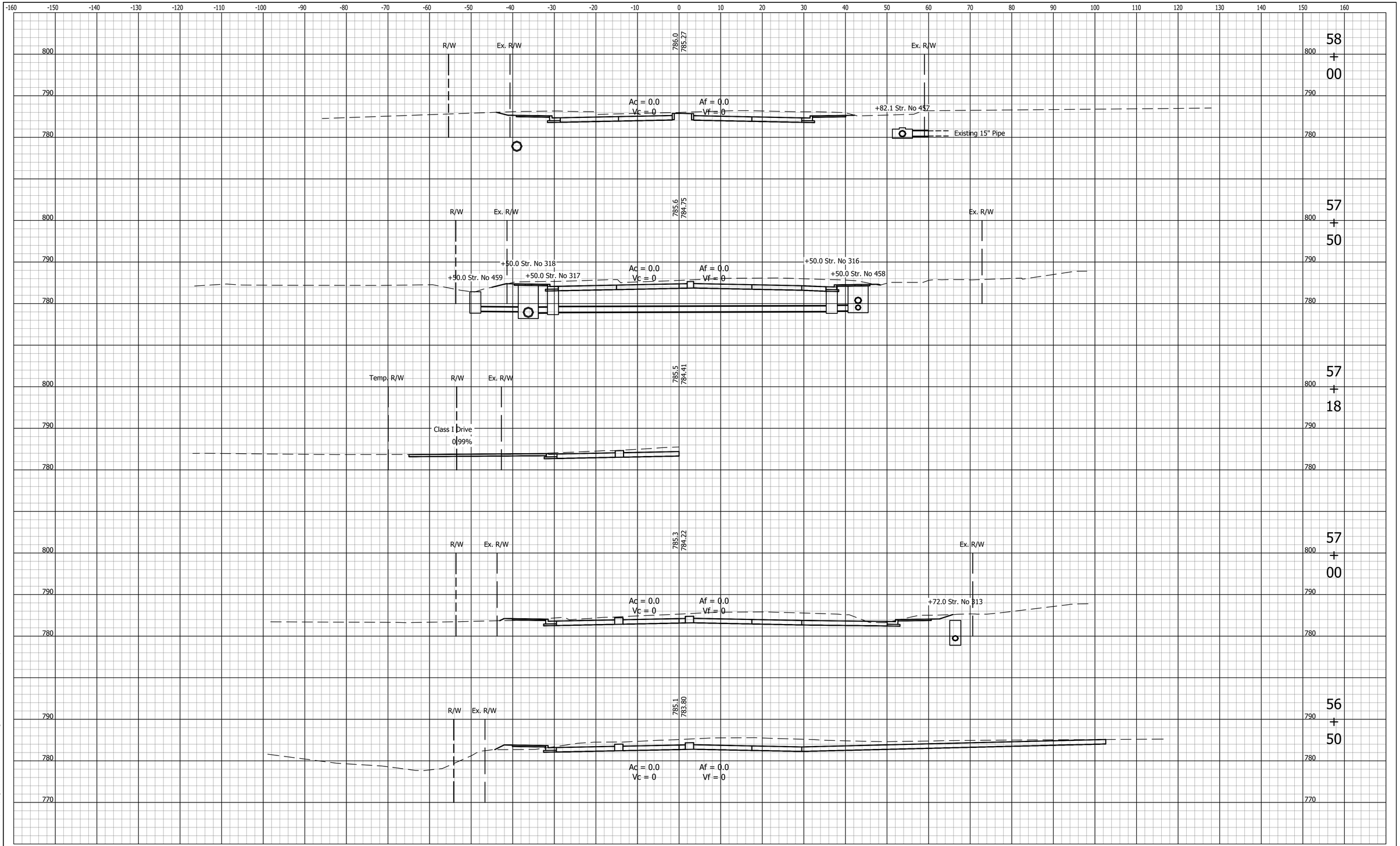
DESIGNED: TBL DRAWN: JNII

CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-S-1-B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	171 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\PDI\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-S-1-B.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

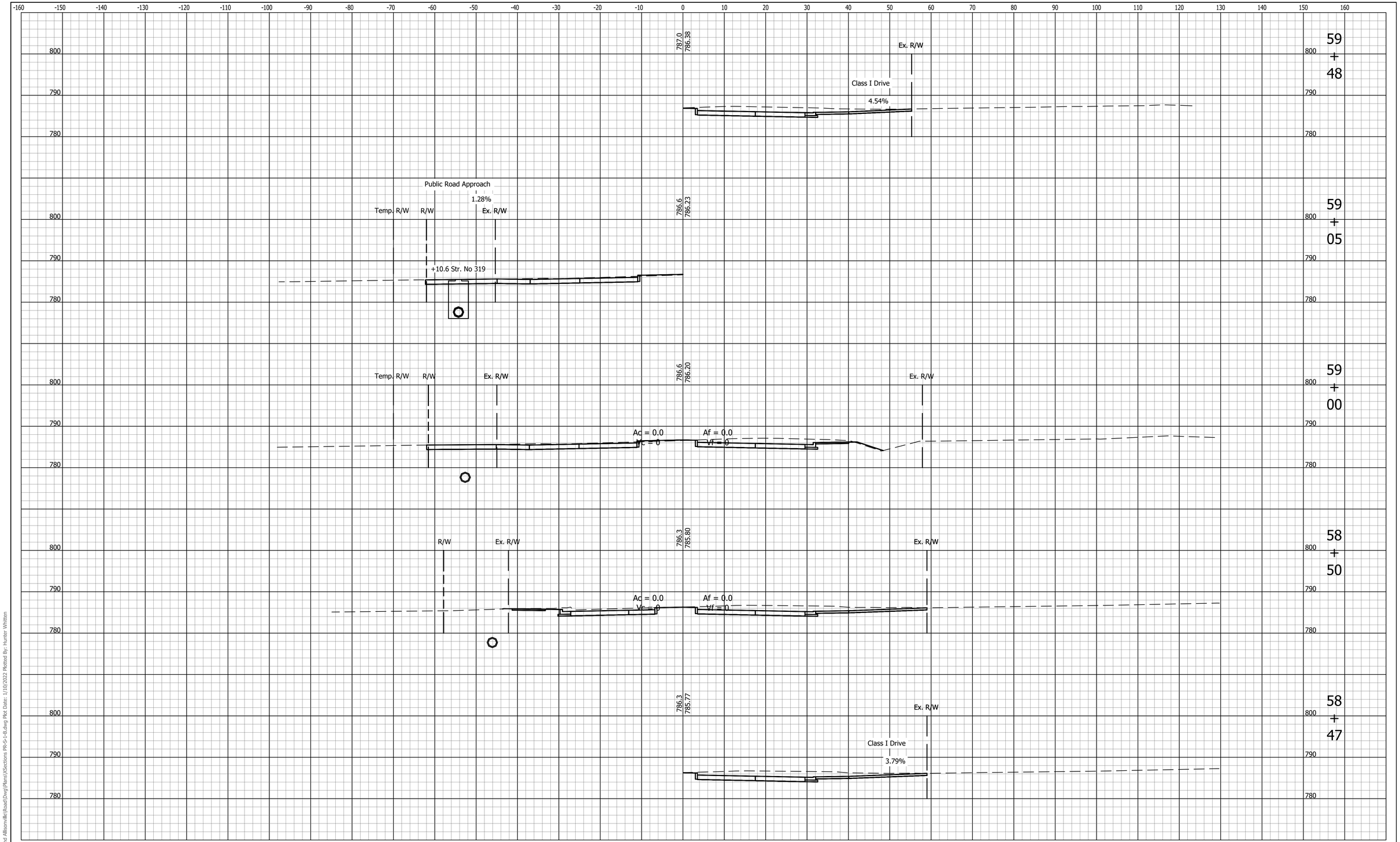
DESIGNED: TBL DRAWN: JNII

CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-S-1-B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	172 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\PDI\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-S-1-B.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

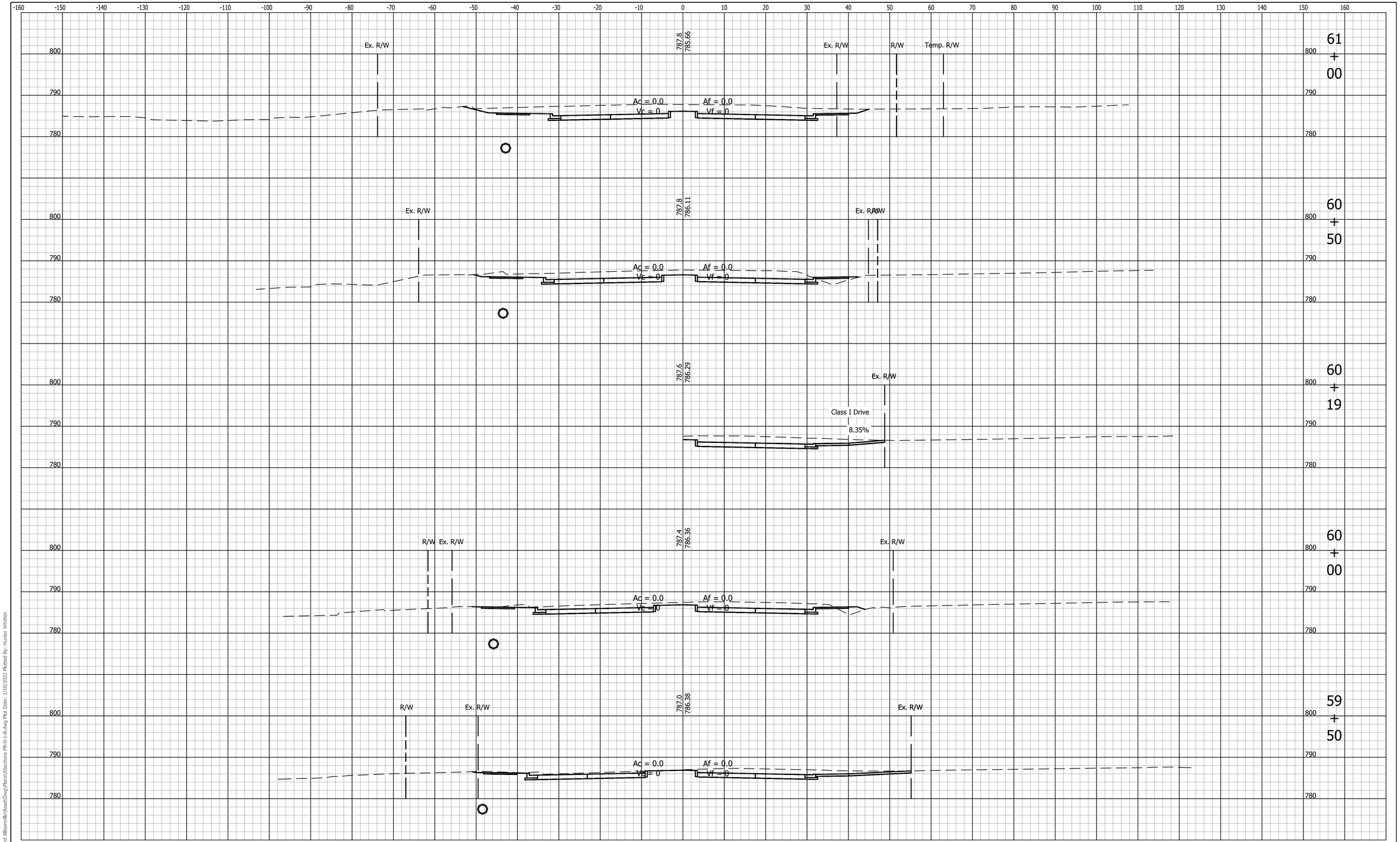
DESIGNED: TBL DRAWN: JNII

CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-S-1-B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	173 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\PDI\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-S-1-B.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

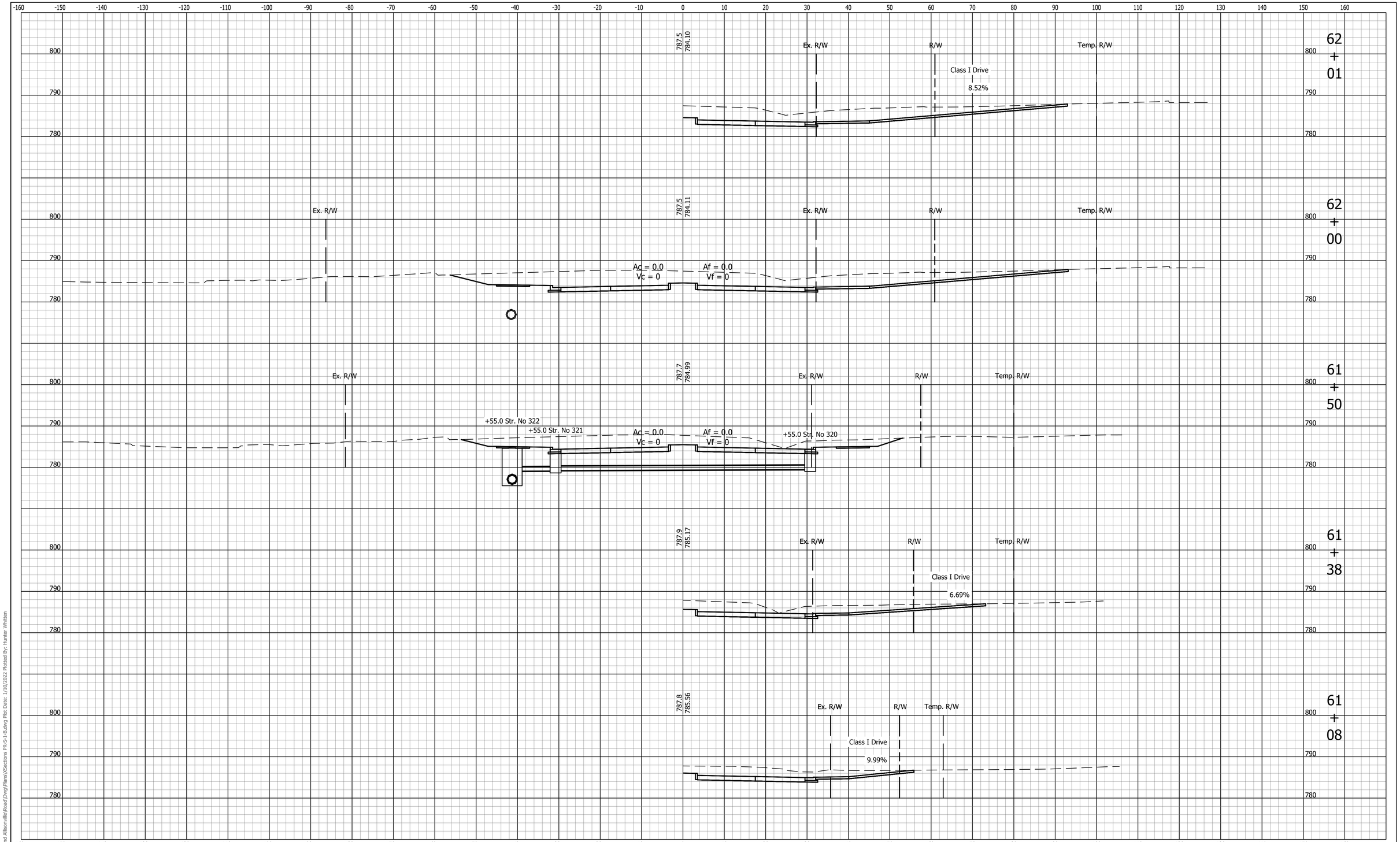
DESIGNED: TBL DRAWN: JNII

CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-S-1-B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	174 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\PDI\G3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-S-1-B.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

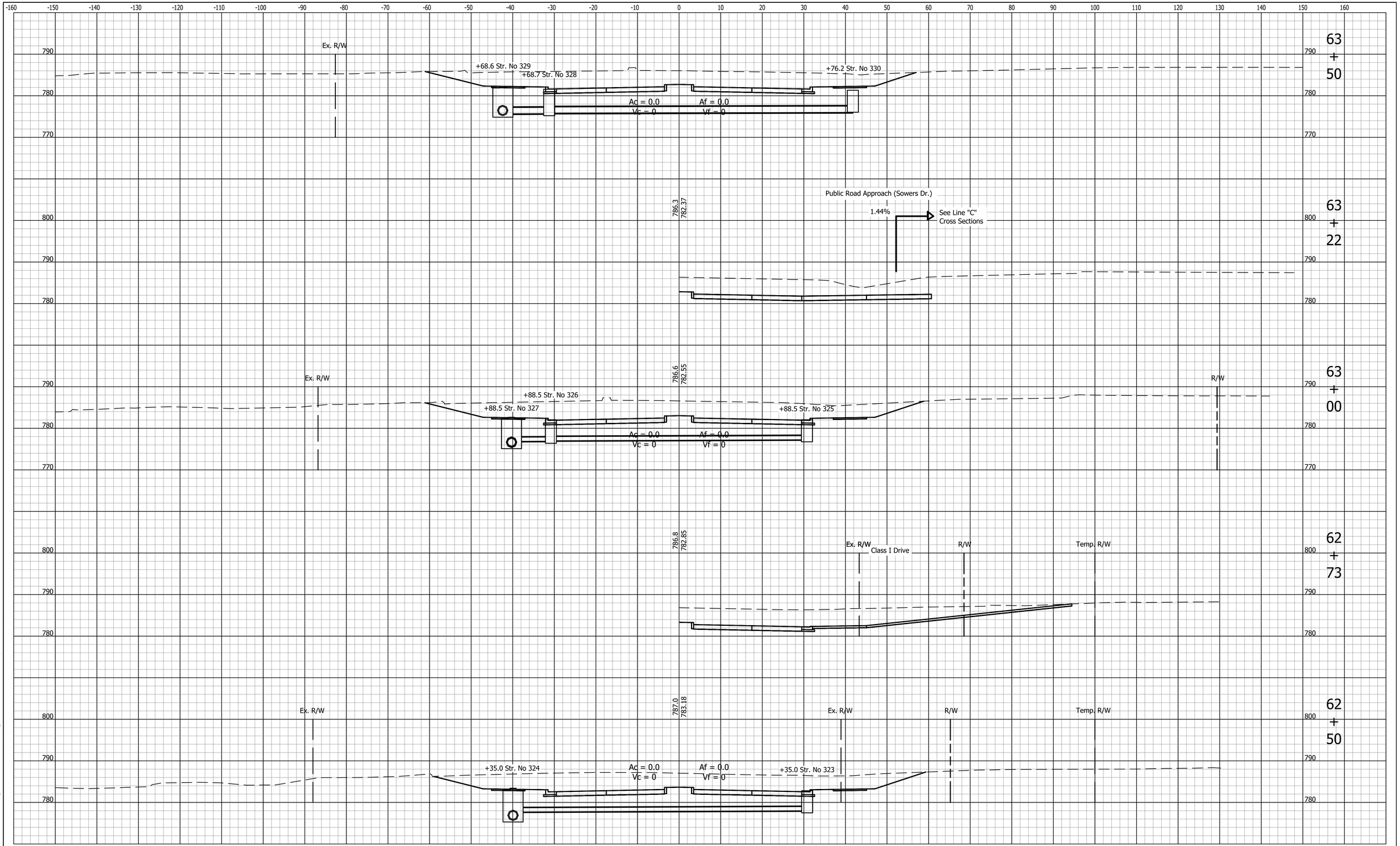
DESIGNED: TBL DRAWN: JNII

CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-S-1-B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	175 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\PDI\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-S-1-B.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

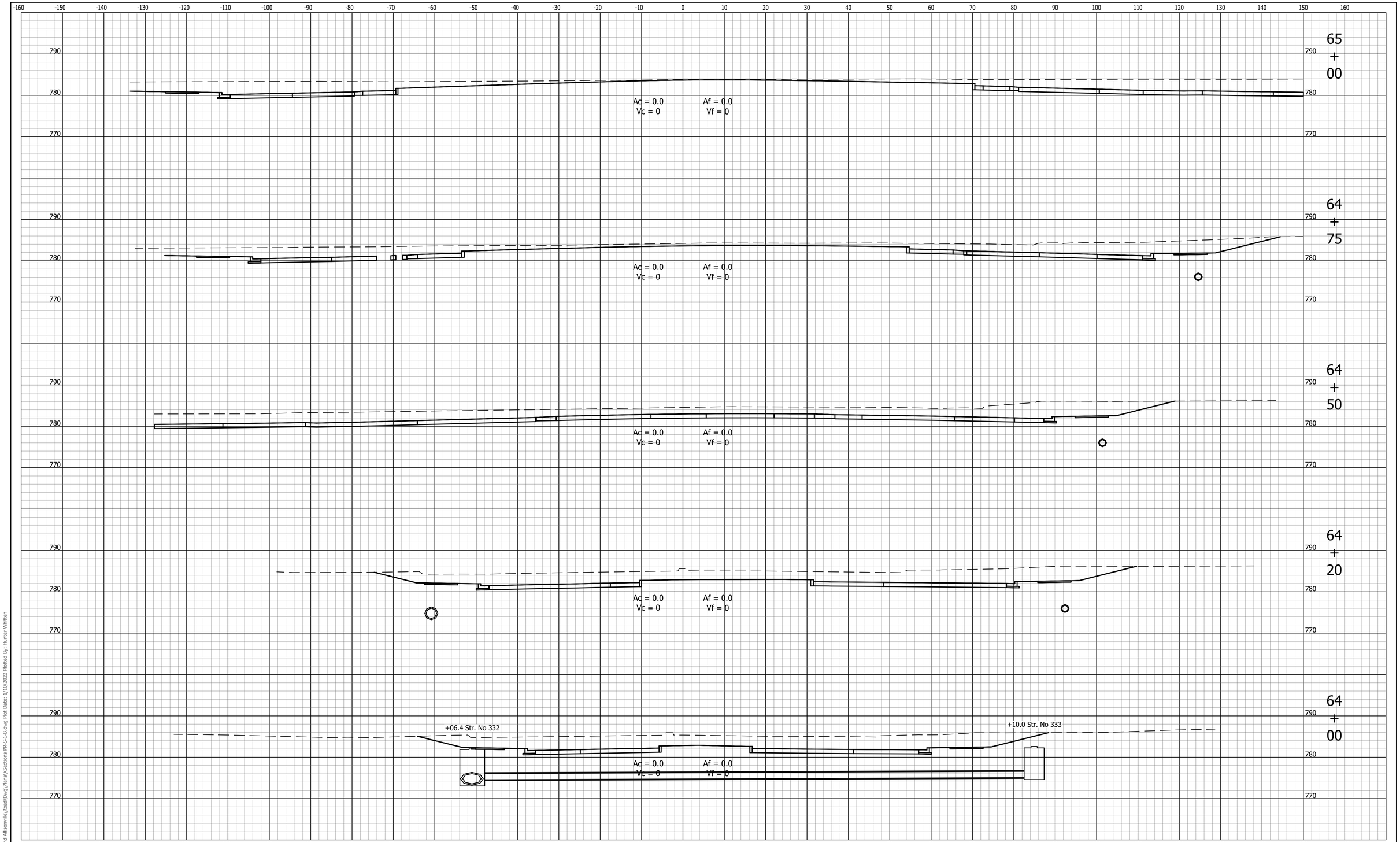
DESIGNED: TBL DRAWN: JNII

CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-S-1-B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	176 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\PDI\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-S-1-B.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

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

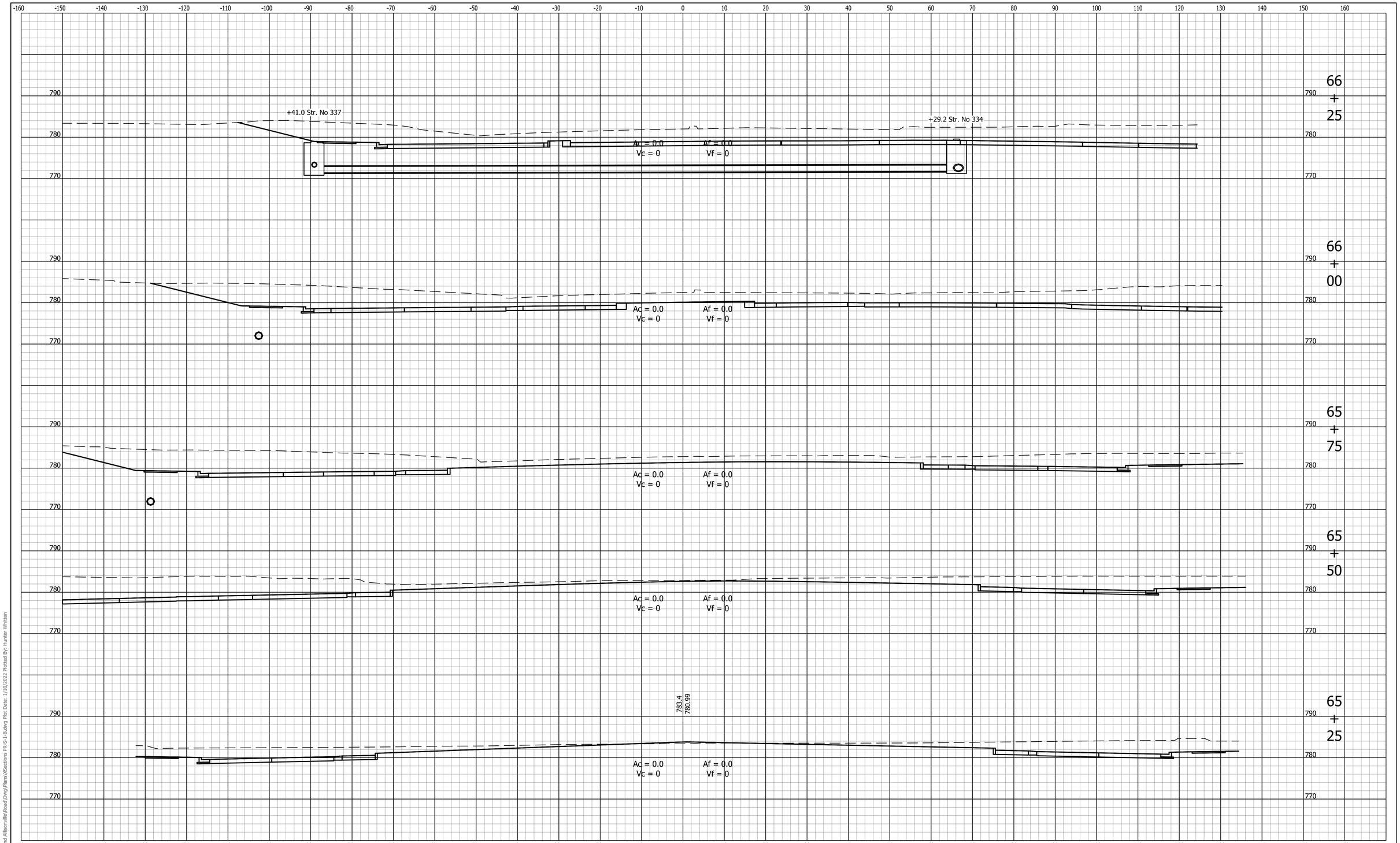
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-S-1-B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	177 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\PDI\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-S-1-B.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

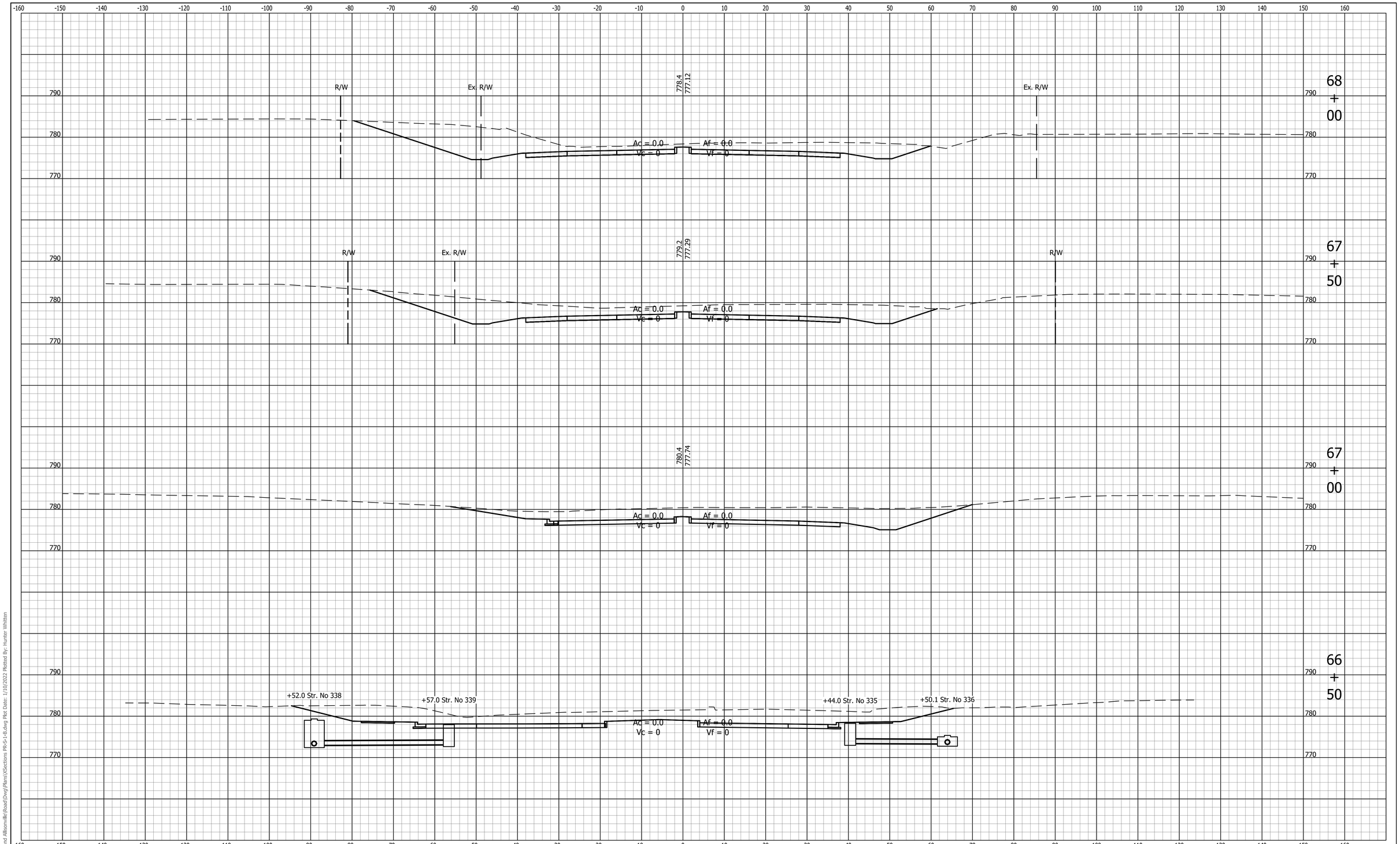
DESIGNED: TBL DRAWN: JNII

CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-S-1-B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	178 of 186
CONTRACT	PROJECT
R-41313	1801421



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

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

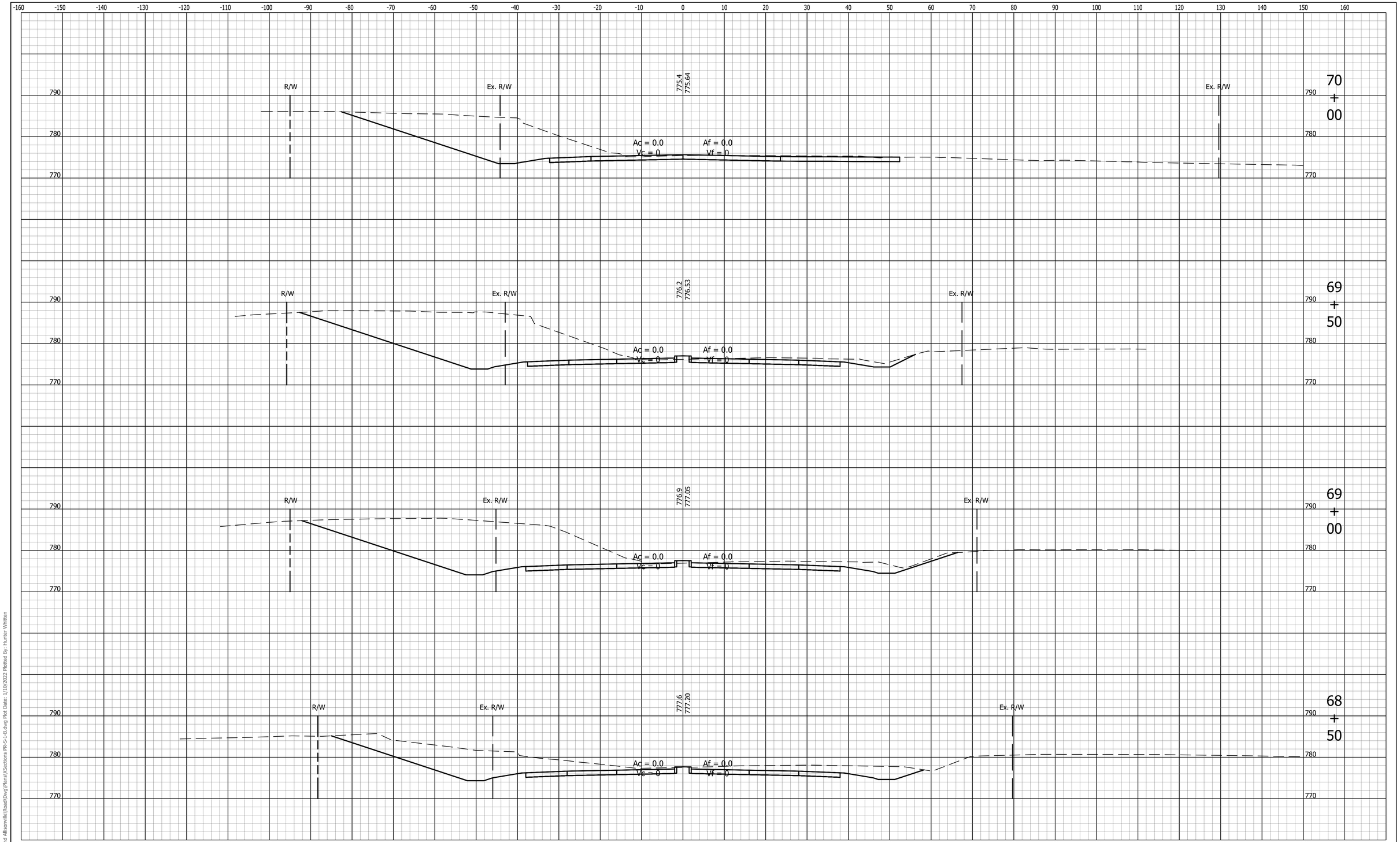
DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-S-1-B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	179 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\RD\C3D\17-418 146th and Allisonville Road\Dwg\Plans\Sections PR-S-1-B.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



File Name: P:\PDI\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-S-1-B.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

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

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

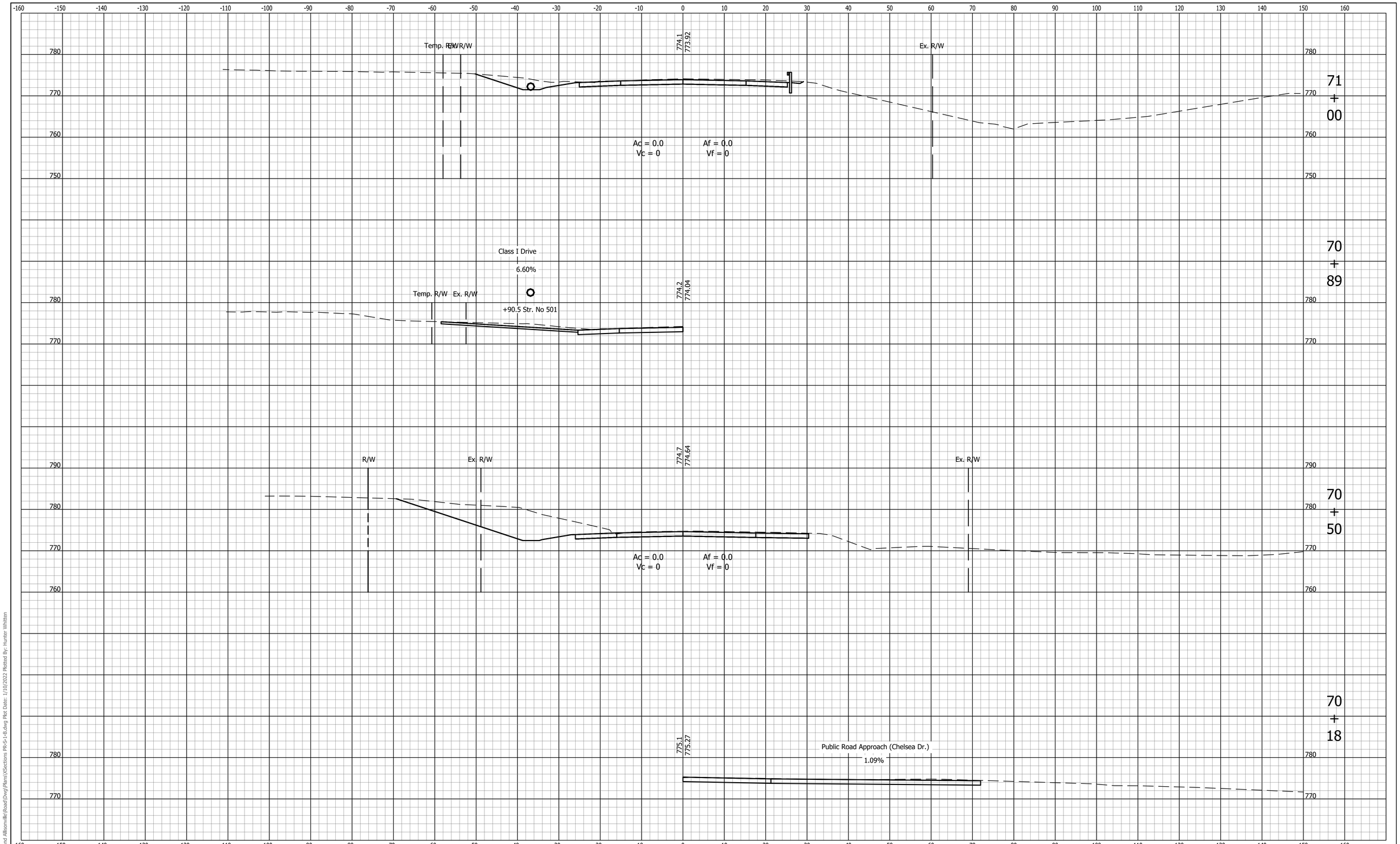
DESIGNED: TBL DRAWN: JNII

CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-S-1-B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	180 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Sections PR-S-1-B.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER DATE

DESIGNED: TBL DRAWN: JNII

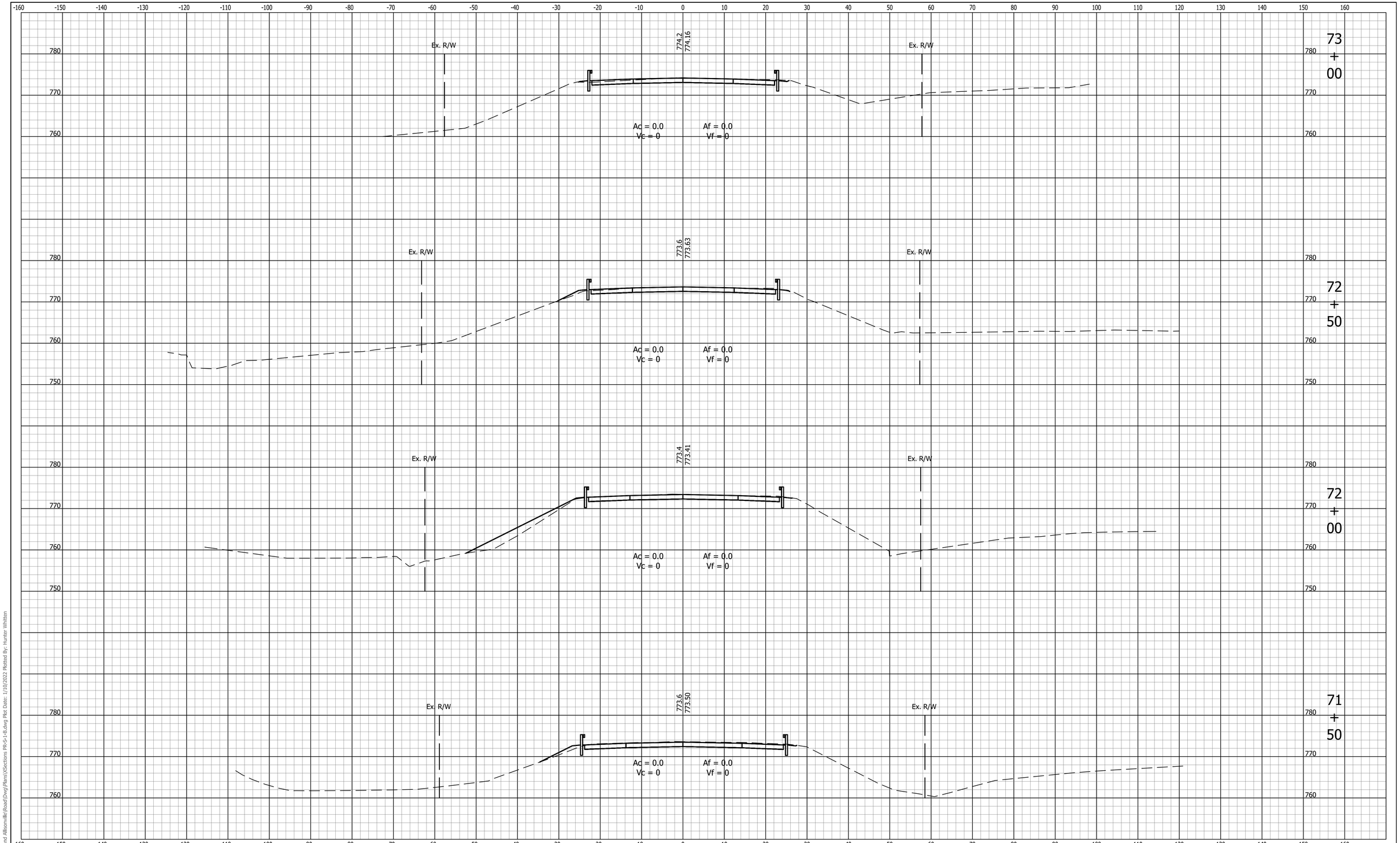
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-S-1-B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421

SURVEY BOOK	SHEETS
-	181 of 186
CONTRACT	PROJECT
R-41313	1801421



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

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

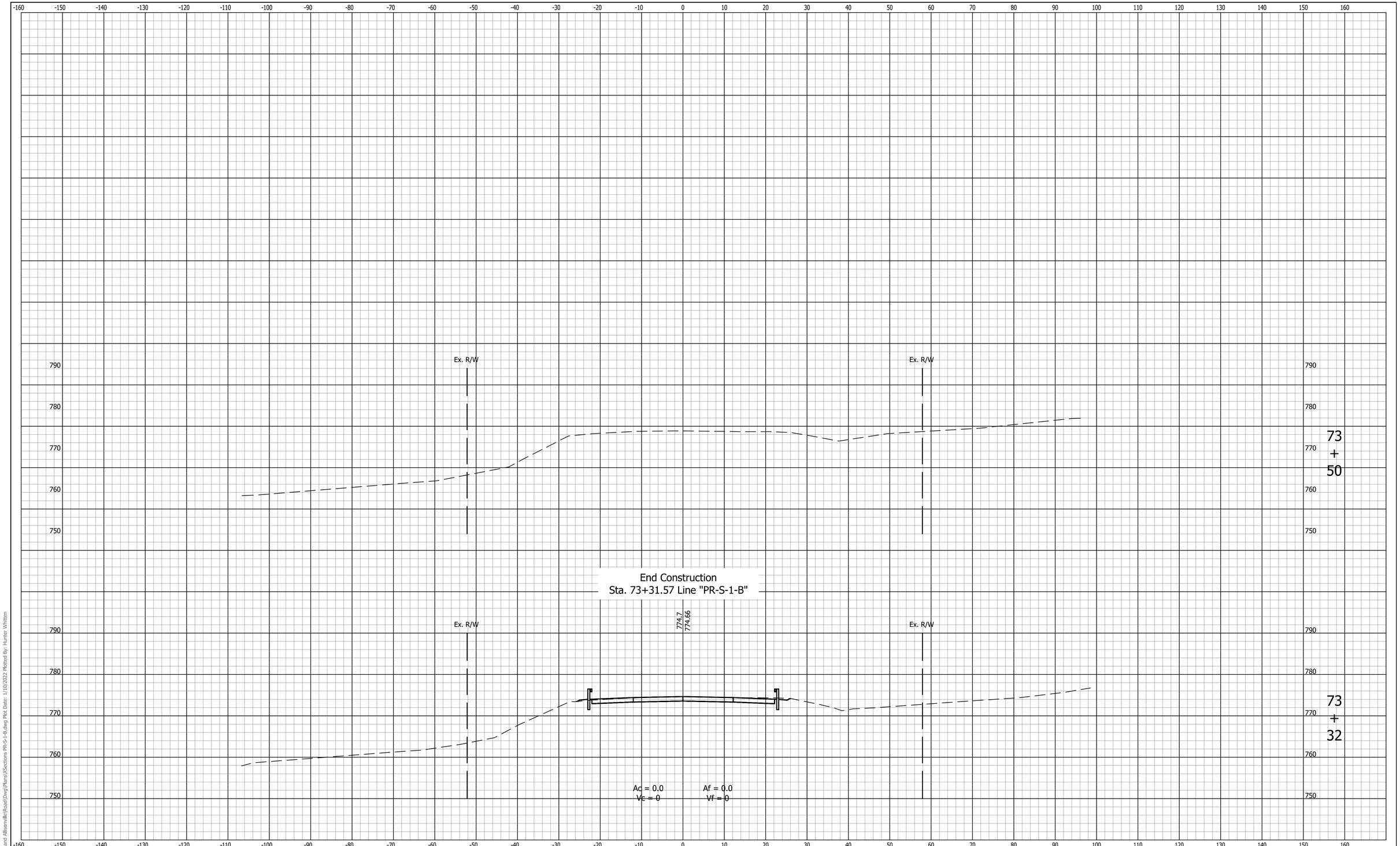
DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-S-1-B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	182 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Sections PR-S-1-B.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



File Name: P:\PDI\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections PR-S-1-B.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

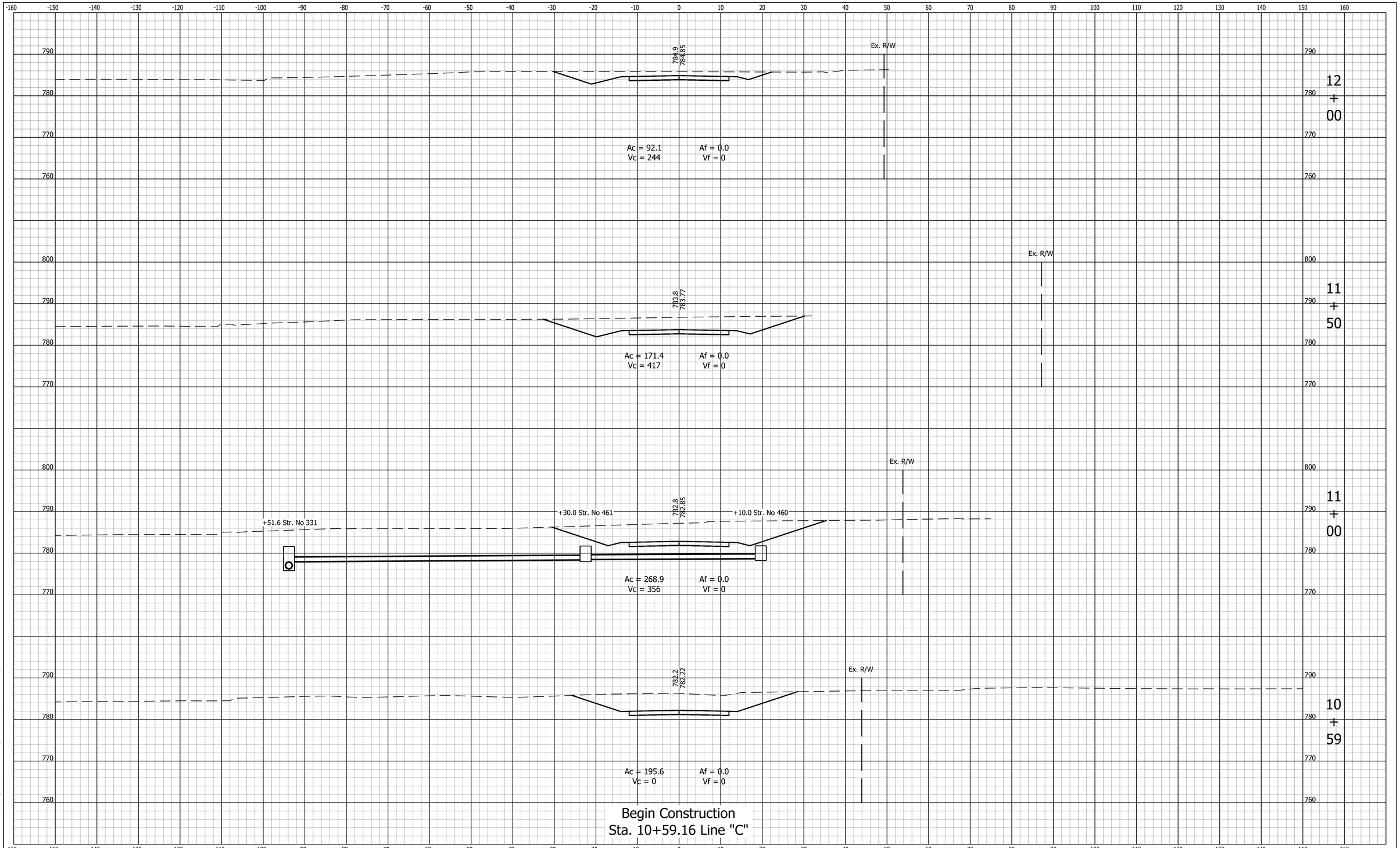
DESIGNED: TBL DRAWN: JNII

CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-S-1-B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	183 of 186
CONTRACT	PROJECT
R-41313	1801421



File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\Sections C.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

UNITED Consulting

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

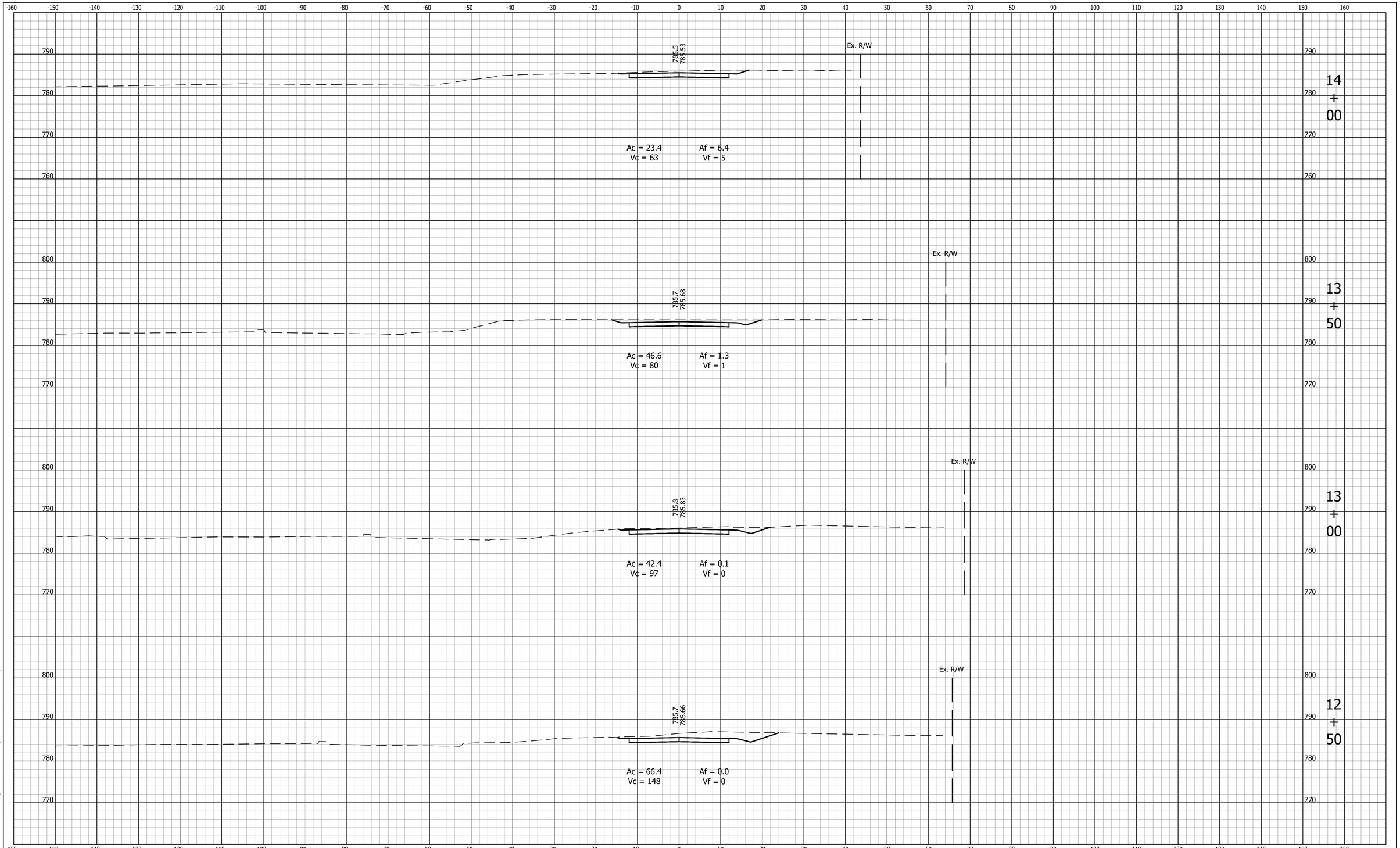
RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "C"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	184 of 186
CONTRACT	PROJECT
R-41313	1801421



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

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

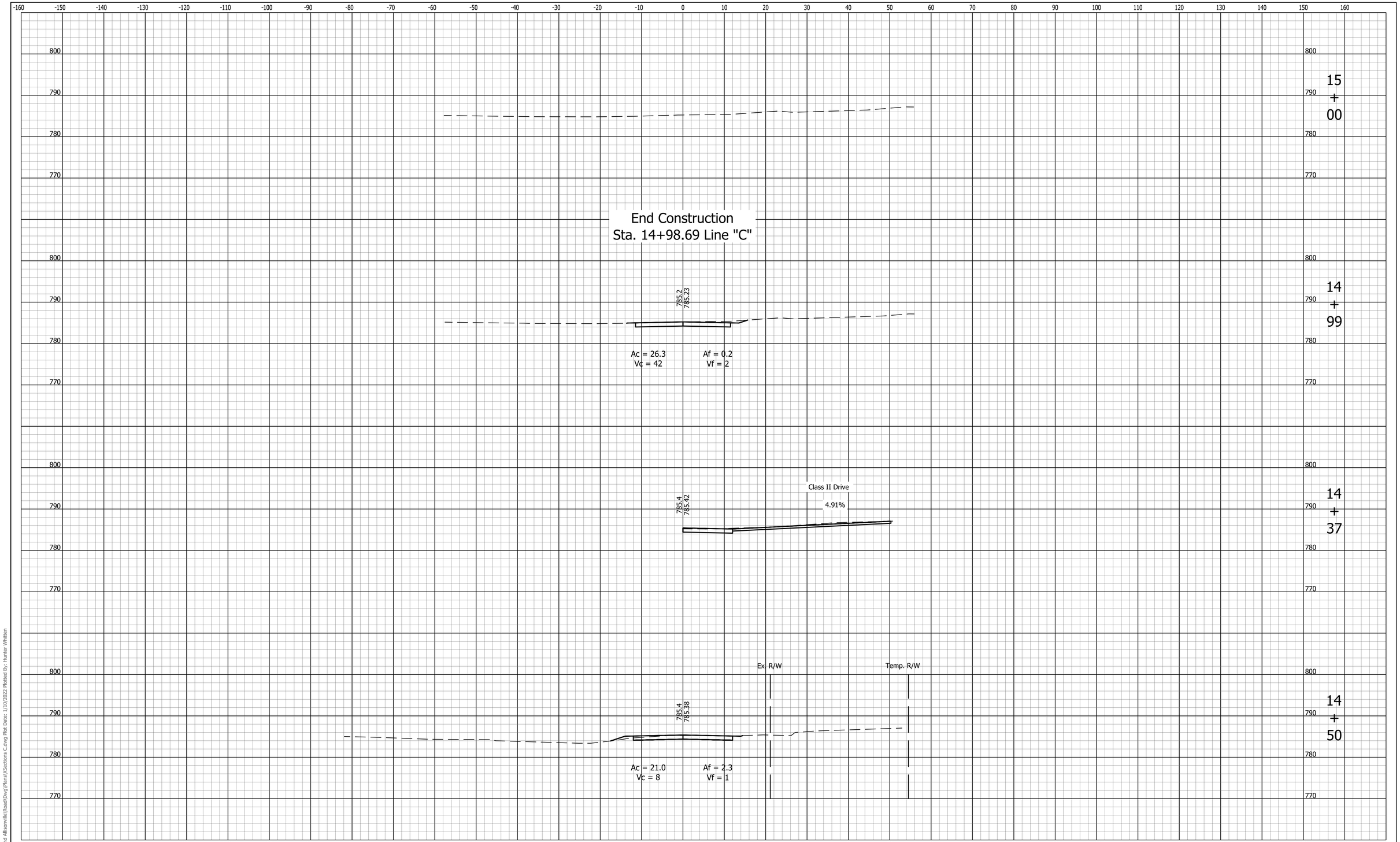
DESIGNED: TBL DRAWN: JNII
CHECKED: CCR CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "C"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	185 of 186
CONTRACT	PROJECT
R-41313	1801421

File Name: P:\RD\C3D\17-418 146th and Allisonville Road\Dwg\Plans\Sections C.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten



File Name: P:\RD\C3D\17-418 146th and Allisonville\Road\Dwg\Plans\XSections C.dwg Plot Date: 1/10/2022 Plotted By: Hunter Whitten

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

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: TBL | DRAWN: JNII
CHECKED: CCR | CHECKED: CCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "C"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	1801421
SURVEY BOOK	SHEETS
-	186 of 186
CONTRACT	PROJECT
R-41313	1801421