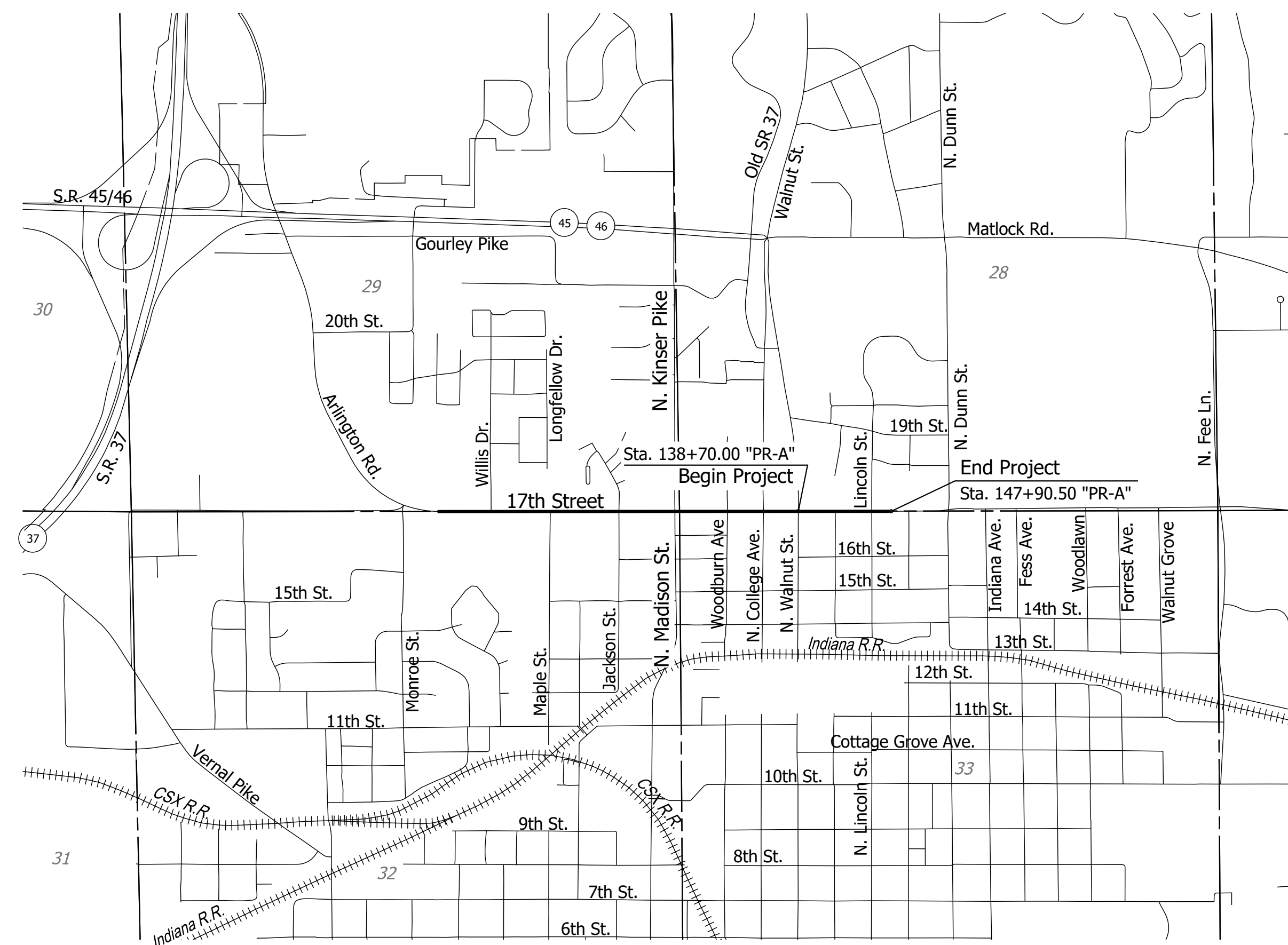


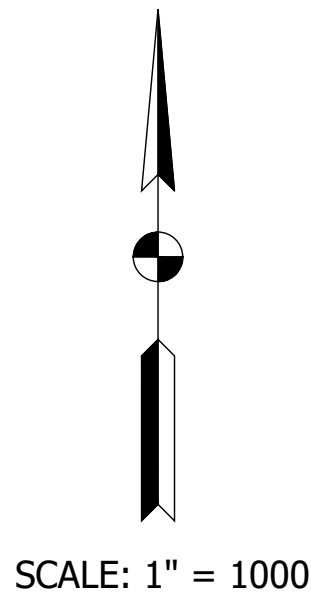
17th STREET MULTI-USE PATH

CITY OF BLOOMINGTON, INDIANA

Construction of a Multi-Use Path; Beginning at Walnut Street and Ending at Grant Street.

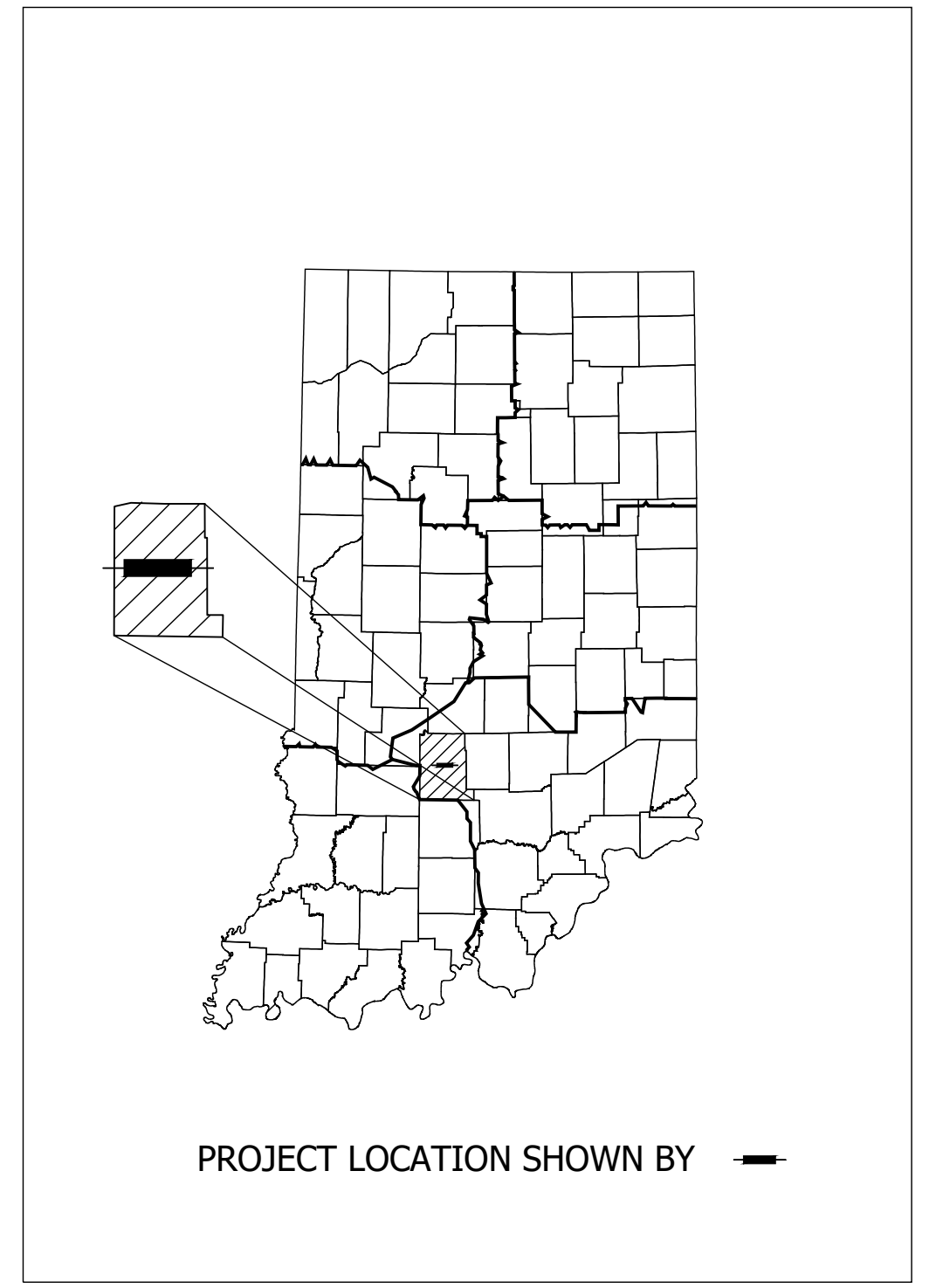


LOCATION MAP
SECTIONS 28 & 33 T-9-N, R-1-W
CITY, BLOOMINGTON
TWP. BLOOMINGTON
COUNTY, MONROE
STATE, INDIANA



TRAFFIC DATA		
A.A.D.T.	(2022)	11,100 V.P.D.
A.A.D.T.	(2042)	11,914 V.P.D.
D.H.V	(2042)	1,200 V.P.H.
DIRECTIONAL DISTRIBUTION		60/40 %
TRUCKS		1.5% A.A.D.T.

DESIGN DATA		
DESIGN SPEED		30 M.P.H.
PROJECT DESIGN CRITERIA		3R (Non-Freeway)
FUNCTIONAL CLASSIFICATION		Minor Arterial
RURAL/URBAN		Urban (Built-Up)
TERRAIN		Rolling
ACCESS CONTROL		None



BRIDGE LENGTH:	N/A	MI.
ROADWAY LENGTH:	0.17	MI.
TOTAL LENGTH:	0.17	MI.
MAX. GRADE "PR-A":	9.308%	%
MAX. GRADE "B":	9.650%	%
H.U.C. 14: 05120202010070		

BEGINNING	LATITUDE: 39° 10' 44"	LONGITUDE: 86° 32' 01"
ENDING	LATITUDE: 39° 10' 44"	LONGITUDE: 86° 31' 49"

CITY OF BLOOMINGTON

APPROVED:
BOARD OF PUBLIC WORKS

Dana Henke
Dana Henke, President
11.16.2021
Date

Beth Hollingsworth
Beth Hollingsworth, Vice President
11.16.2021
Date

Kyla Deckard
Kyla Deckard, Secretary
11.16.2021
Date

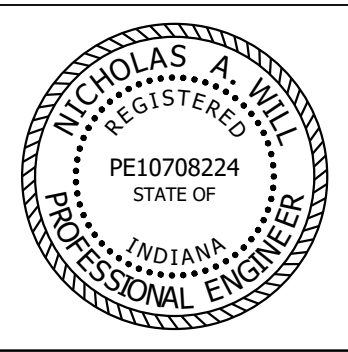
APPROVED:
EMPLOYEE OF RESPONSIBLE CHARGE

Neil Kopper
Neil Kopper, PE
Senior Project Engineer
12/11/2021
Date

Date: Mar 11, 2022, 3:40pm User Name: T Lyons File: S:_2019\119-0055\Road_East Phase\CAD\Misc\DWG\Title.dwg

GEOTECH CONSULTANT
ATC GROUP SERVICES LLC
7988 CENTERPOINT DR. SUITE 100
INDIANAPOLIS, INDIANA 46256

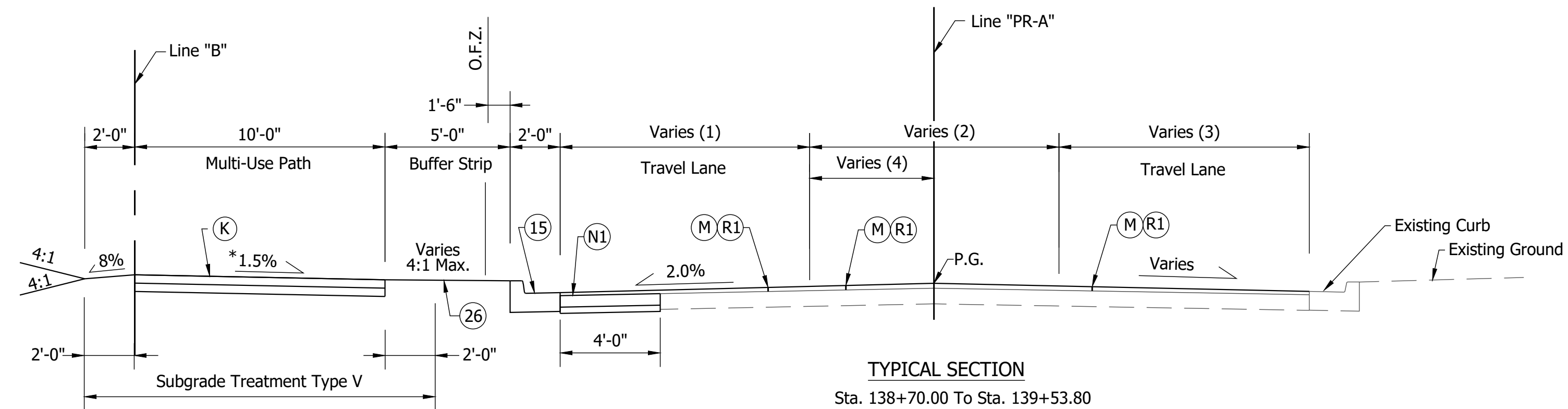
Plans Prepared By:
LOCHMUELLER GROUP
6200 Vogel Road
Evansville, Indiana 47715
Phone: 812.479.6200
Toll Free: 800.423.7411



PLANS PREPARED BY: LOCHMUELLER GROUP, INC.
6200 Vogel Road, Evansville, IN 47715 (812) 479-6200
PHONE NUMBER
CERTIFIED BY: *Nicholas A. Will* 12/27/2021
DATE

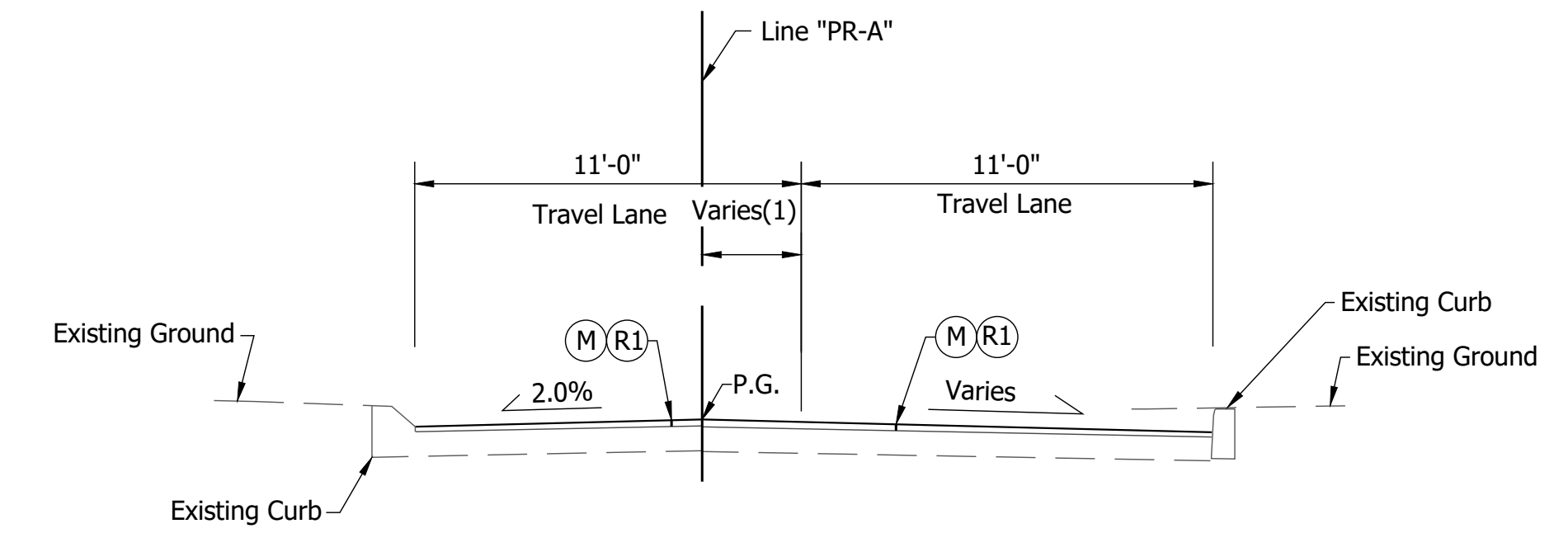
INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2022
TO BE USED WITH THESE PLANS

BRIDGE FILE	N/A
DESIGNATION	N/A
SURVEY BOOK	SHEETS
1	of 56
CONTRACT	PROJECT
-	-



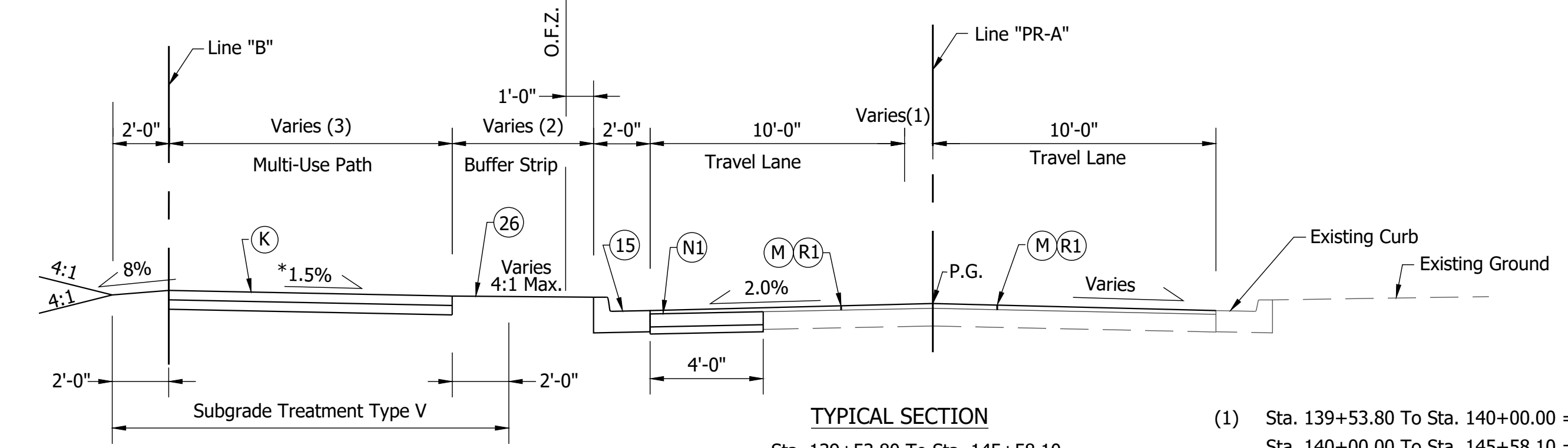
TYPICAL SECTION
Sta. 138+70.00 To Sta. 139+53.80

- (1) Sta. 138+70.00 To Sta. 139+53.80 = Varies 11'-10" To 10'-0"
- (2) Sta. 138+70.00 To Sta. 139+53.80 = Varies 6'-0" To 0'-0"
- (3) Sta. 138+70.00 To Sta. 139+53.80 = Varies 11'-0" To 10'-0"
- (4) Sta. 138+70.00 To Sta. 139+31.35 = Varies 4'-0" To 2'-0"



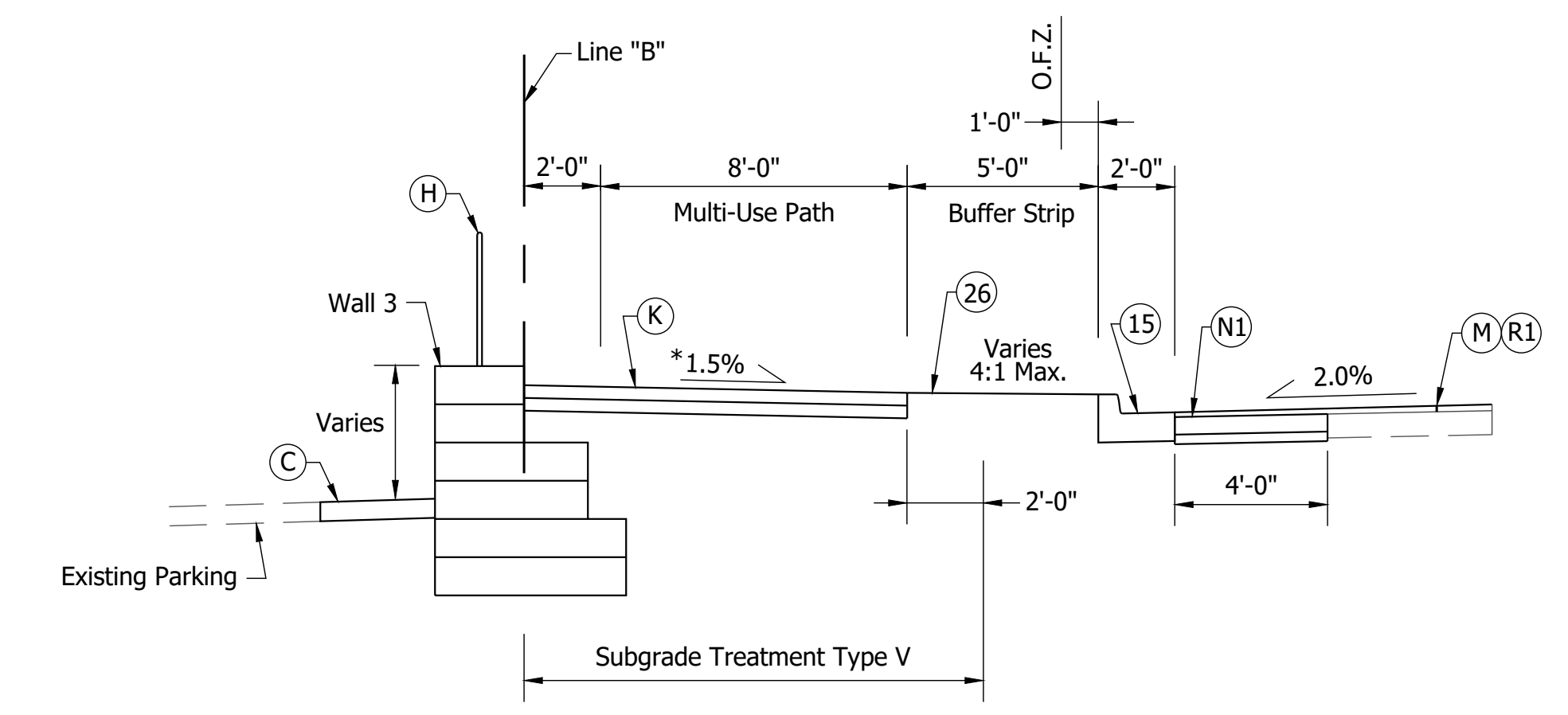
TYPICAL SECTION
Sta. 146+13.00 To Sta. 147+90.50

- (1) Sta. 146+13.00 To Sta. 147+63.40 = 2'-6"
- (2) Sta. 146+13.00 To Sta. 146+49.50 = 7'-2"
- (3) Sta. 146+11.50 To Sta. 146+46.97 = 10'-0"
- (4) Sta. 146+49.50 To Sta. 146+82.35 = Varies 7'-2" To 5'-0"
- (5) Sta. 146+82.35 To Sta. 147+45.62 = 5'-0"
- (6) Sta. 147+45.62 To Sta. 147+90.50 = Varies 5'-0" To 8'-6"
- (7) Sta. 146+46.97 To Sta. 146+84.65 = Varies 10'-0" To 8'-0"
- (8) Sta. 146+84.65 To Sta. 147+45.63 = 8'-0"
- (9) Sta. 147+45.63 To Sta. 147+90.50 = Varies 8'-0" To 10'-0"

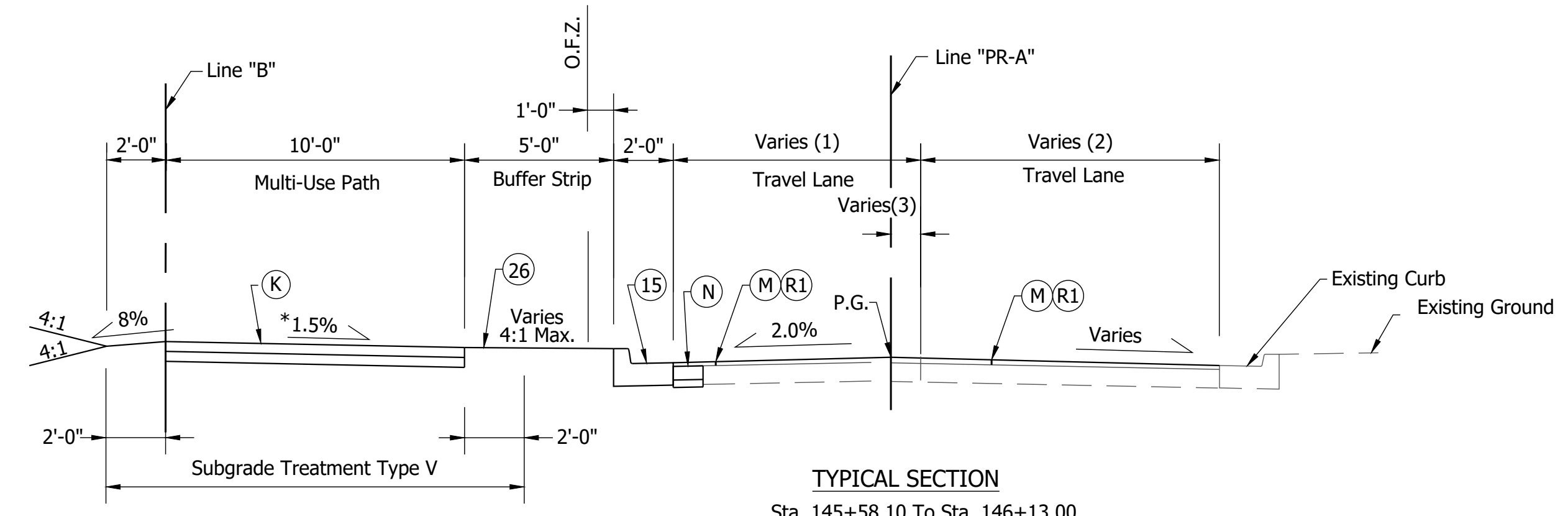


TYPICAL SECTION
Sta. 139+53.80 To Sta. 145+58.10

- (1) Sta. 139+53.80 To Sta. 140+00.00 = Varies 1'-8" To 0'-10"
- (2) Sta. 139+53.80 To Sta. 140+08.70 = 5'-0"
- (3) Sta. 139+53.80 To Sta. 139+78.93 = 10'-0"
- (4) Sta. 140+00.00 To Sta. 145+58.10 = 0'-10"
- (5) Sta. 140+08.70 To Sta. 140+43.52 = Varies 5'-0" To 3'-0"
- (6) Sta. 140+43.52 To Sta. 141+40.47 = 3'-0"
- (7) Sta. 141+40.47 To Sta. 141+94.37 = Varies 3'-0" To 7'-0"
- (8) Sta. 141+94.37 To Sta. 144+12.96 = 7'-0"
- (9) Sta. 144+12.96 To Sta. 144+41.33 = Varies 7'-0" To 5'-0"
- (10) Sta. 144+41.33 To Sta. 145+58.10 = 5'-0"
- (11) Sta. 139+78.93 To Sta. 140+15.45 = Varies 10'-0" To 8'-0"
- (12) Sta. 140+15.45 To Sta. 141+37.48 = 8'-0"
- (13) Sta. 141+37.48 To Sta. 141+88.44 = Varies 8'-0" To 10'-0"
- (14) Sta. 141+88.44 To Sta. 145+58.10 = 10'-0"



TYPICAL SECTION
Sta. 139+39.44 To Sta. 140+01.44

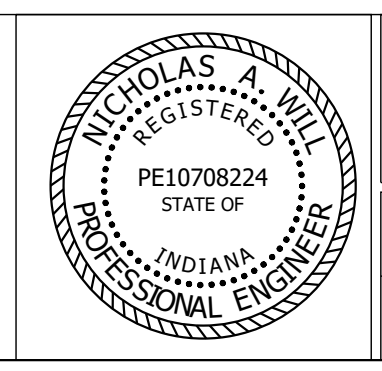


TYPICAL SECTION
Sta. 145+58.10 To Sta. 146+13.00

- (1) Sta. 145+58.10 To Sta. 146+13.00 = Varies 10'-0" To 11'-0"
- (2) Sta. 145+58.10 To Sta. 146+13.00 = Varies 10'-0" To 11'-0"
- (3) Sta. 145+58.10 To Sta. 146+13.00 = Varies 0'-10" To 2'-6"

- LEGEND**
- (C) PCCP for Approaches, 6" Mod. on Dense Graded Subbase, on Subgrade Treatment Type II
 - (H) Bicycle Railing, 54"
 - (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
 - (M) Milling, Asphalt, 1.5"
 - (N) PCC Base Patching, 7" on 3" Compacted Aggregate, No. 53 on Subgrade Treatment Type IV
 - (N1) HMA For Patching, Type B [275#/SYS HMA Type B, Intermediate on 330#/SYS HMA Type B, Base on 3" Aggregated No. 53 Subgrade Treatment Type IV]
 - (R1) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
 - (15) Curb & Gutter, Concrete, Modified
 - (26) Sodding, Nursery
 - P.G. Profile Grade
 - O.F.Z. Obstruction Free Zone

NOTES:
See Construction Details For Additional Information
* See Sheet 4 For Trail Cross Slope.



RECOMMENDED FOR APPROVAL: *Nicholas A. Will* 12/27/2021
DESIGN ENGINEER DATE

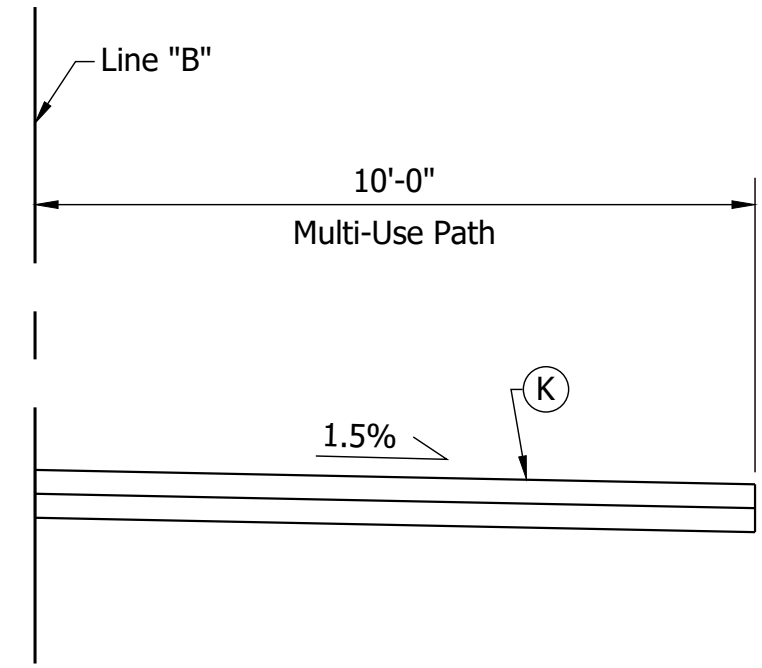
DESIGNED: JAF DRAWN: DAG
CHECKED: NAW CHECKED: JAF

17th STREET MULTI-USE PATH CONSTRUCTION PLANS
CITY OF BLOOMINGTON, INDIANA

TYPICAL SECTIONS LINE "PR-A"

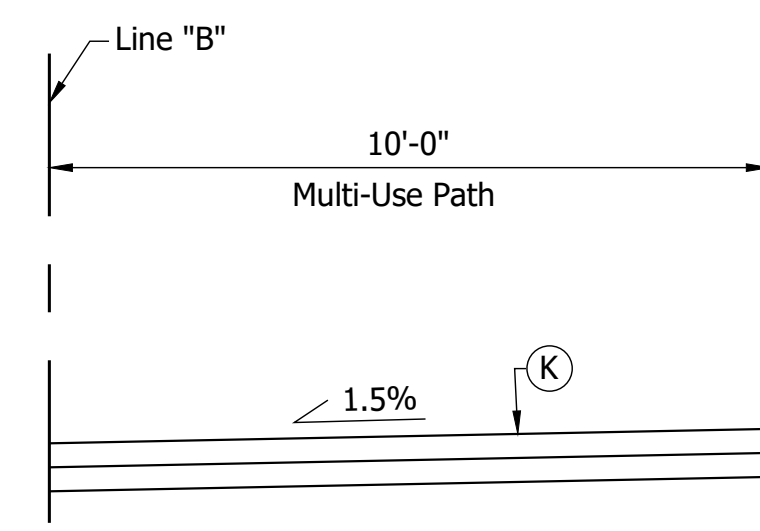
HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'	N/A
VERTICAL SCALE	DESIGNATION
-	N/A
SURVEY BOOK	SHEETS
	3 of 56
CONTRACT	PROJECT
-	-

Date: Mar 11, 2022, 3:42pm User Name: T Lyons File: S:_2019\119-0055\Road_East Phase\CAD\Misc\DWG\Typicals.dwg



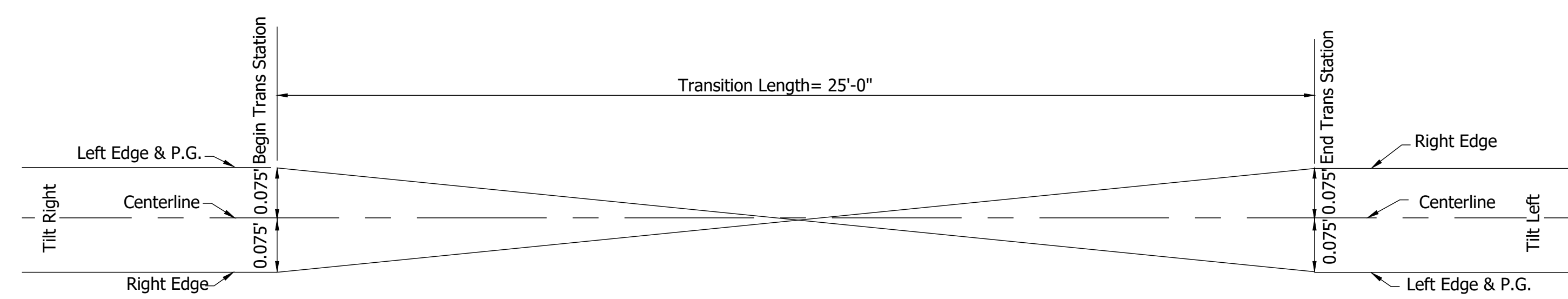
TYPICAL SECTION

Sta. 138+70.00 To Sta. 142+23.00
Sta. 144+93.00 To Sta. 146+58.00



TYPICAL SECTION

Sta. 142+48.00 To Sta. 144+68.00



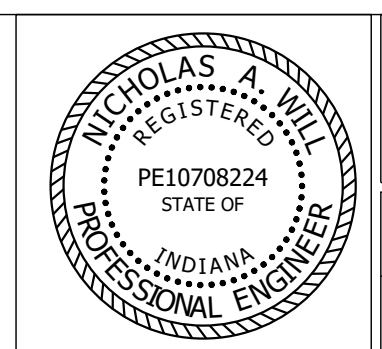
TRAIL PAVEMENT TRANSITION

N.T.S.

LEGEND

- (K) Multi-Use Trail
4" PCCP w/ Joints @ 8 Ft. Spacing on
4" Compacted Aggregate, No. 53 on
Subgrade Treatment Type V

NOTES:
See Construction Details For Additional Information



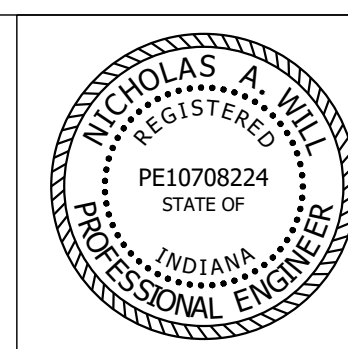
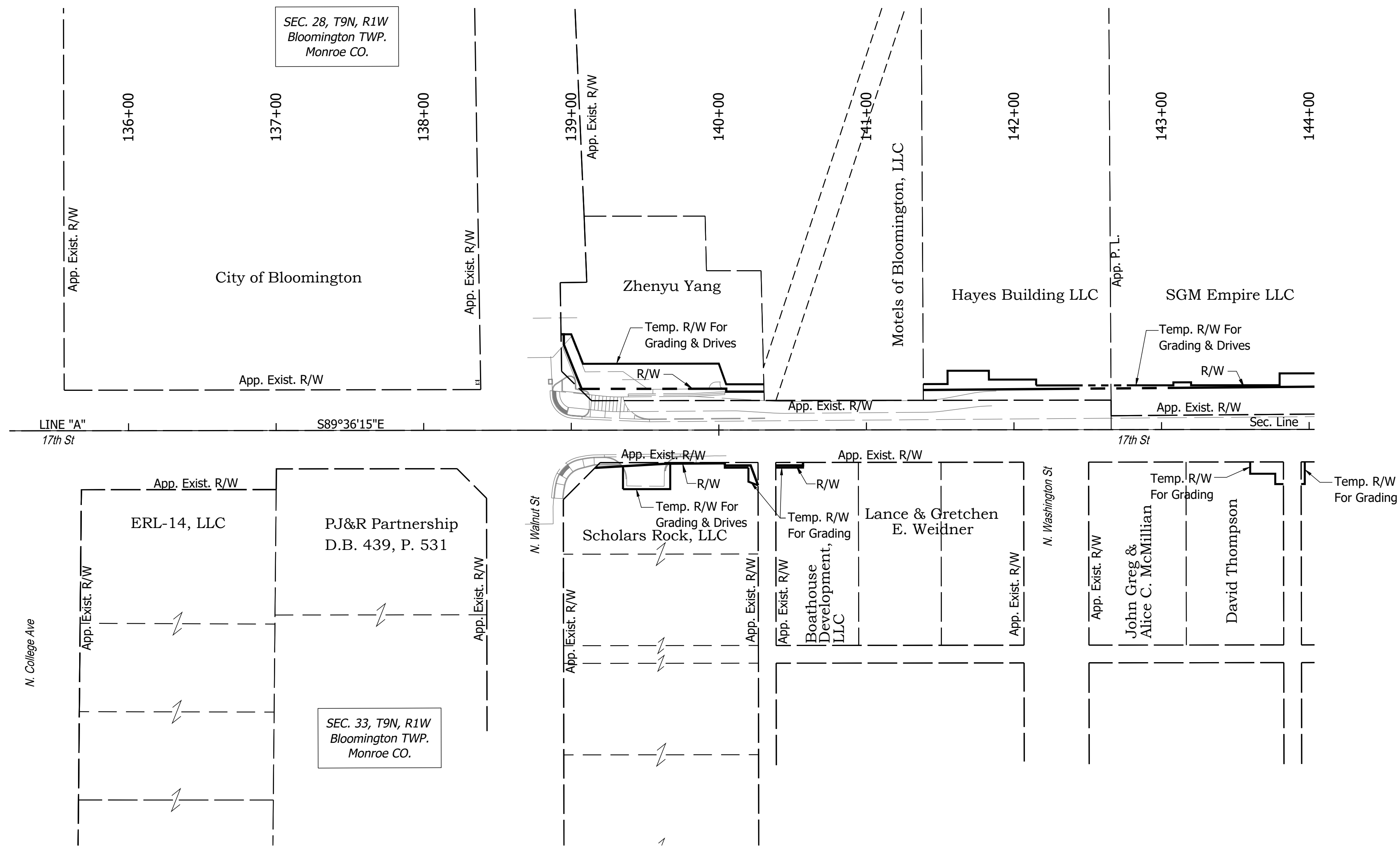
RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	12/27/2021
	DESIGN ENGINEER	DATE
DESIGNED:	JAF	DRAWN: DAG
CHECKED:	NAW	CHECKED: JAF

17th STREET MULTI-USE PATH
CONSTRUCTION PLANS
CITY OF BLOOMINGTON, INDIANA

TYPICAL SECTIONS
LINE "B"

HORIZONTAL SCALE	BRIDGE FILE
3/8" = 1"	N/A
VERTICAL SCALE	DESIGNATION
-	N/A
SURVEY BOOK	SHEETS
	4 of 56
CONTRACT	PROJECT
-	-

Date: Mar 11, 2022, 3:43pm User Name: T Lyons
 File: S:_2019\119-0055\Road_East Phase\CAD\MiscDWG\Plat.dwg



RECOMMENDED FOR APPROVAL: *Nicholas A. Will*
 DESIGN ENGINEER DATE: 12/27/2021

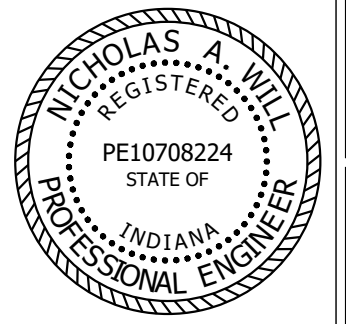
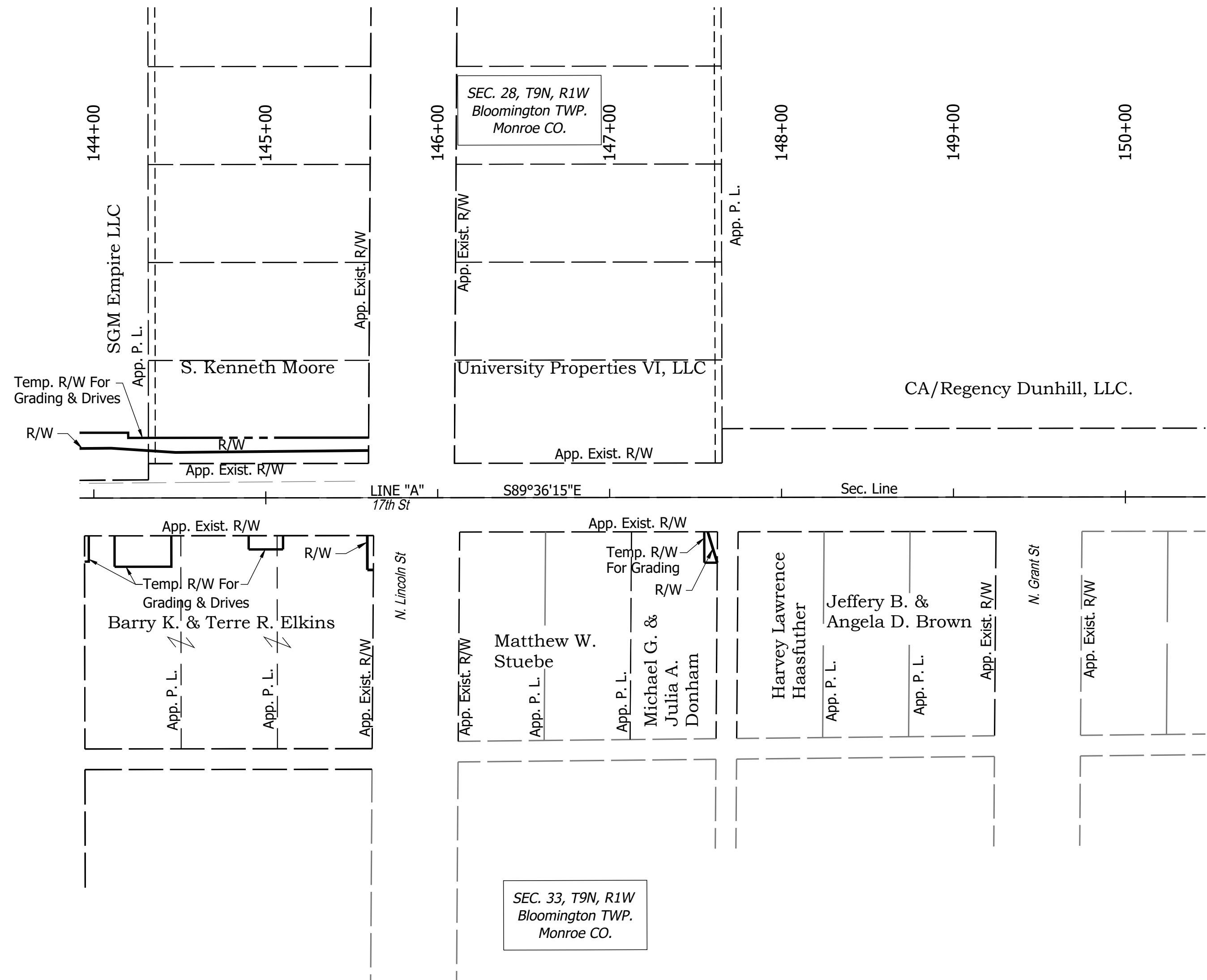
DESIGNED: JAF DRAWN: DAG
 CHECKED: NAW CHECKED: JAF

17th STREET MULTI-USE PATH
 CONSTRUCTION PLANS
 CITY OF BLOOMINGTON, INDIANA

PLAT 1

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	N/A
VERTICAL SCALE	DESIGNATION
-	N/A
SURVEY BOOK	SHEETS
-	5 of 56
CONTRACT	PROJECT
-	- - -

Date: Mar 11, 2022, 3:43pm User Name: T Lyons
 File: S:_2019\119-0055\Road_East Phase\CAD\MiscDWG\Plat.dwg



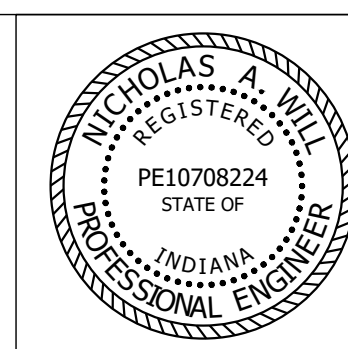
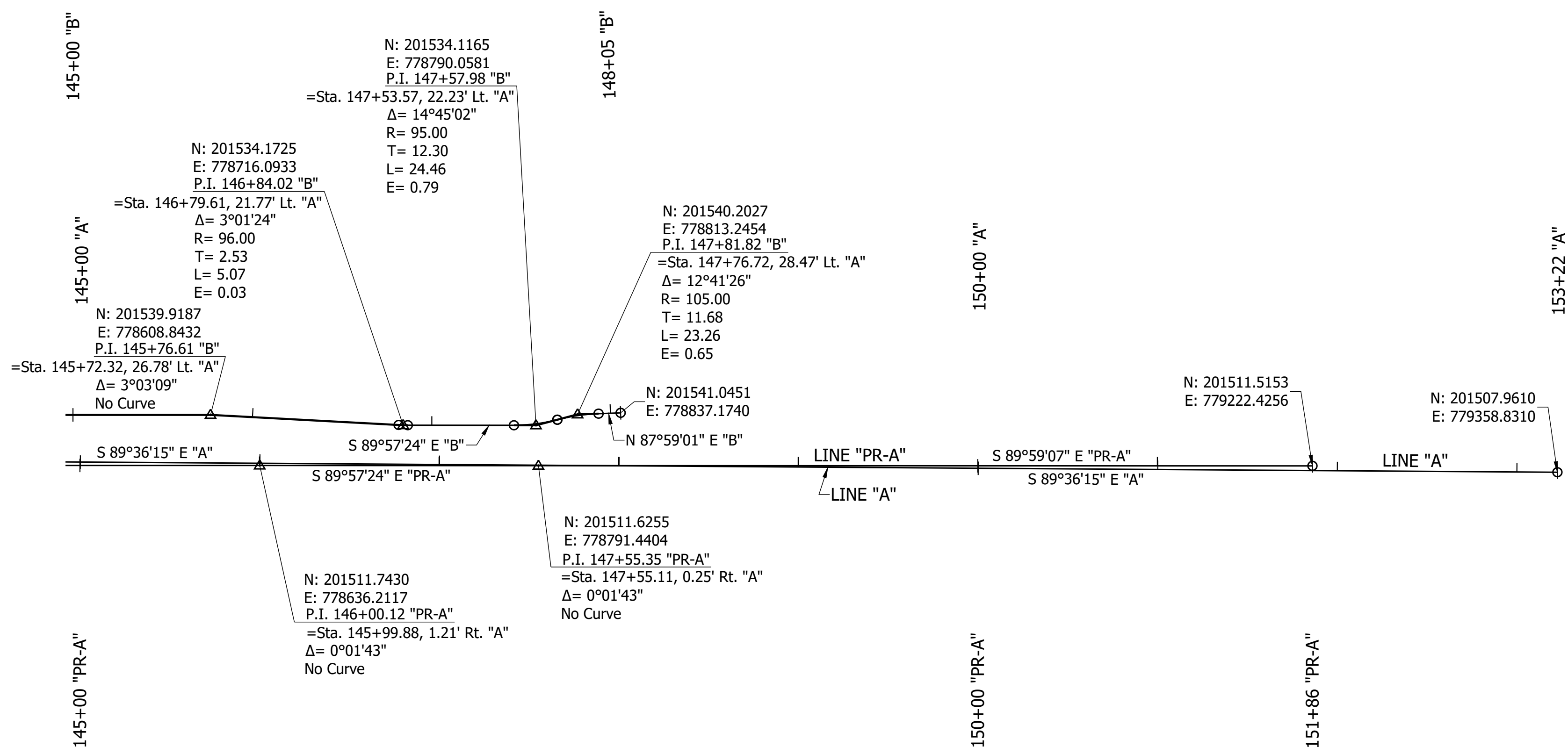
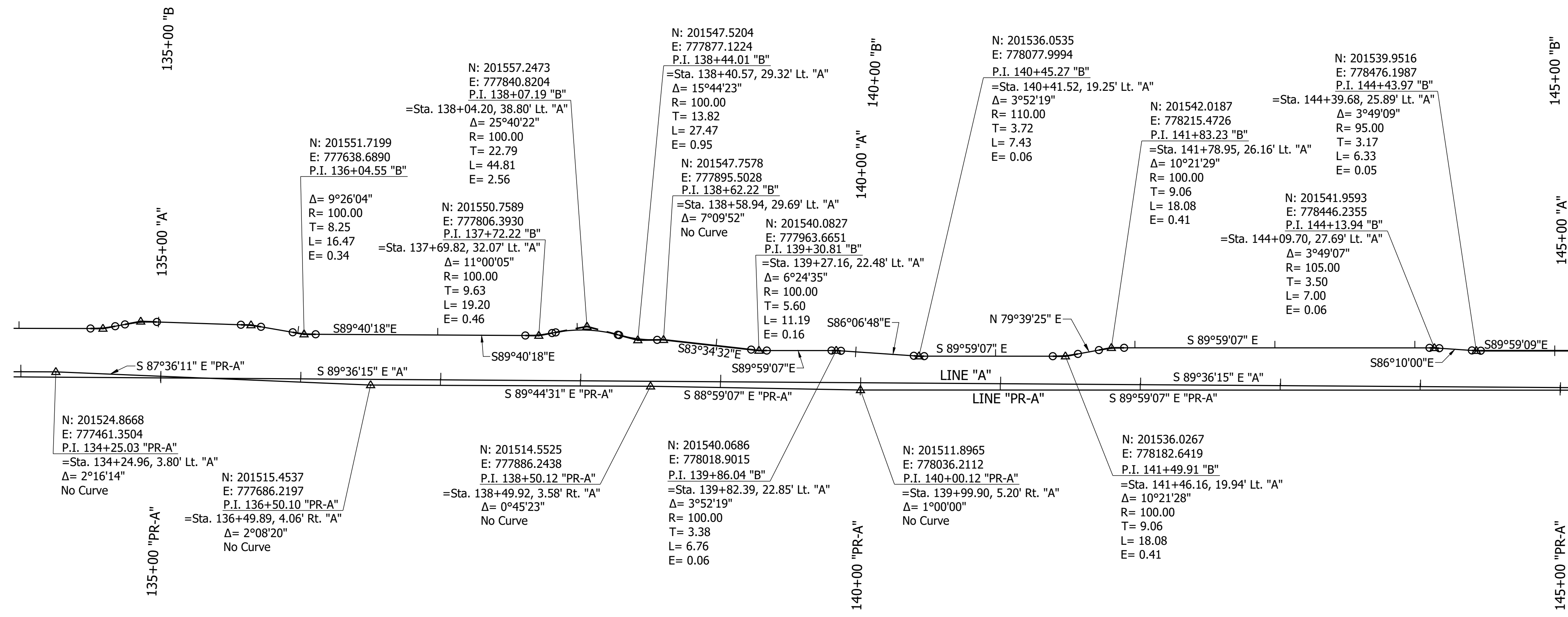
RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	12/27/2021
	DESIGN ENGINEER	DATE
DESIGNED: JAF	DRAWN: DAG	
CHECKED: NAW	CHECKED: JAF	

**17th STREET MULTI-USE PATH
 CONSTRUCTION PLANS**
 CITY OF BLOOMINGTON, INDIANA

PLAT 1

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	N/A
VERTICAL SCALE	DESIGNATION
-	N/A
SURVEY BOOK	SHEETS
	6 of 56
CONTRACT	PROJECT
-	- - -

Date: Mar 11, 2022, 3:43pm User Name: T Lyons
 File: S:_2019\19-0055\Road_East Phase\CAD\Misc\DWG\Geometric Tie-Up.dwg



RECOMMENDED FOR APPROVAL: *Nicholas A. Will*, DESIGN ENGINEER, 12/27/2021 DATE

DESIGNED: JAF DRAWN: DAG

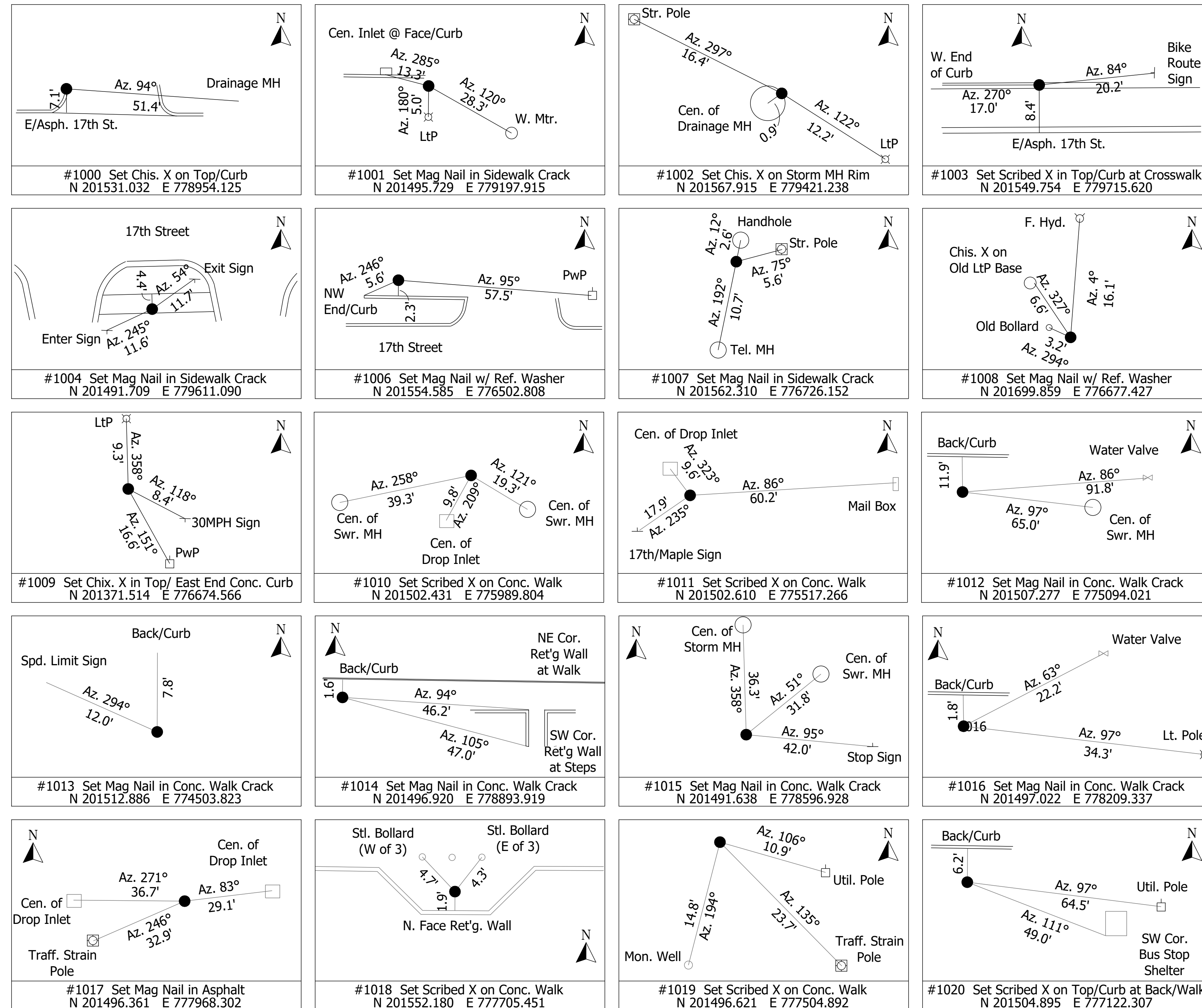
CHECKED: NAW CHECKED: JAF

17th STREET MULTI-USE PATH
 CONSTRUCTION PLANS
 CITY OF BLOOMINGTON, INDIANA

GEOMETRIC TIE-UP

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	N/A
VERTICAL SCALE	DESIGNATION
-	N/A
SURVEY BOOK	SHEETS
	7 of 56
CONTRACT	PROJECT
-	-

PROJECT BENCHMARKS
NAVD 88 DATUM



BM #1
ELEV. 818.41
CHIS X ON NORTH TOP BOLT HYDRANT AT 17/GRANT
149+68.8, 23.5 RT. LINE "A"
N 201486.819 E 779005.021

BM #5
ELEV. 791.65
MAG IN EAST SIDE JOINT POLE #768190 / 508
124+01.0, 23.7 LT. LINE "A"
N 201552.462 E 776437.670

BM #6
ELEV. 797.45
CHIS X ON TOP SE ANCHOR BOLT STRAIN POLE AT NW QUAD
17/KINSER
126+36.2, 34.8 LT. LINE "A"
N 201561.470 E 776672.976

BM #7
ELEV. 789.04
CHIS X TOP EAST EDGE OLD CONC LIGHT POLE BASE
126+35.7, 178.7 LT. LINE "A"
N 201705.328 E 776673.808

BM #8
ELEV. 770.12
CHISELED SQUARE ON TOP OF CONCRETE RETAINING WALL
119+54.0, 36.4 RT. LINE "A"
N 201496.385 E 775990.110

BM #9
ELEV. 791.97
CHISELED X ON TOP NORTH BOLT FIRE HYDRANT
114+63.7, 55.9 RT. LINE "A"
N 201481.396 E 775499.651

BM #10
ELEV. 791.95
CHISELED SQUARE ON TOP OF CONCRETE RETAINING WALL
110+20.5, 26.3 LT. LINE "A"
N 201567.673 E 775057.227

BM #11
ELEV. 779.07
CHISELED SQUARE ON TOP OF NEW CONCRETE RETAINING WALL
103+39.2, 16.0 LT. LINE "A"
N 201563.590 E 774375.891

BM #12
ELEV. 804.37
LONG MAG IN NORTH SIDE JOINT POLE #290-757 12" UP
146+01.6, 72.5 RT. LINE "A"
N 201440.347 E 778637.450

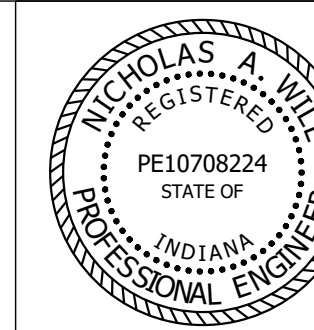
BM #13
ELEV. 783.59
CHISELED X ON TOP SOUTH BOLT FIRE HYDRANT
142+05.7, 26.4 RT. LINE "A"
N 201489.221 E 778241.915

BM #14
ELEV. 761.81
CHISELED SQUARE NORTH MOST CORNER CONCRETE LIGHT POLE BASE
139+02.1, 32.5 RT. LINE "A"
N 201485.230 E 777938.309

BM #15
ELEV. 769.97
CHISELED X ON NORTH MOST STRAIN POLE BOLT
134+85.2, 40.0 RT. LINE "A"
N 201480.558 E 777521.358

BM #16
ELEV. 781.37
LONG MAG IN NORTH SIDE JOINT POLE #80-158-982
131+50.1, 25.7 RT. LINE "A"
N 201497.218 E 777186.375

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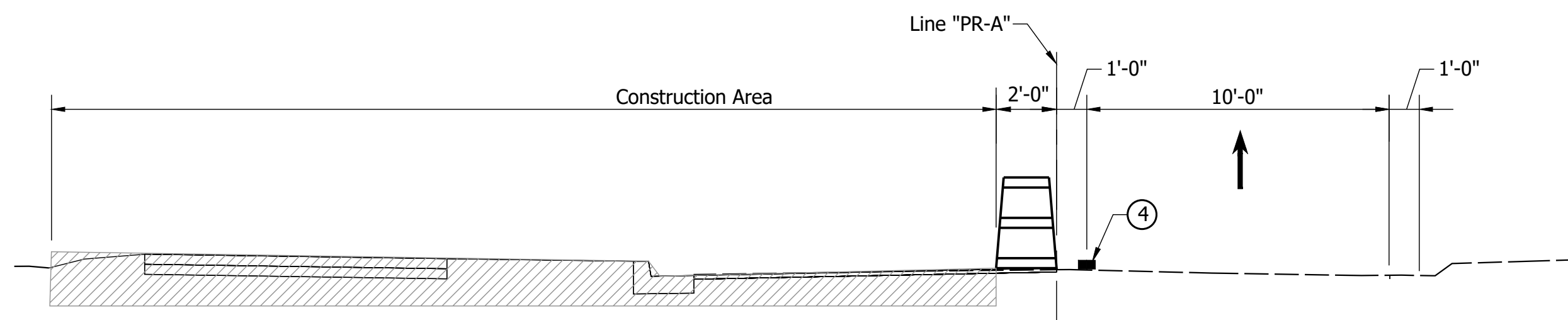


RECOMMENDED FOR APPROVAL *Nicholas A. Will* 12/27/2021
DESIGN ENGINEER DATE
DESIGNED: JAF DRAWN: DAG
CHECKED: NAW CHECKED: JAF

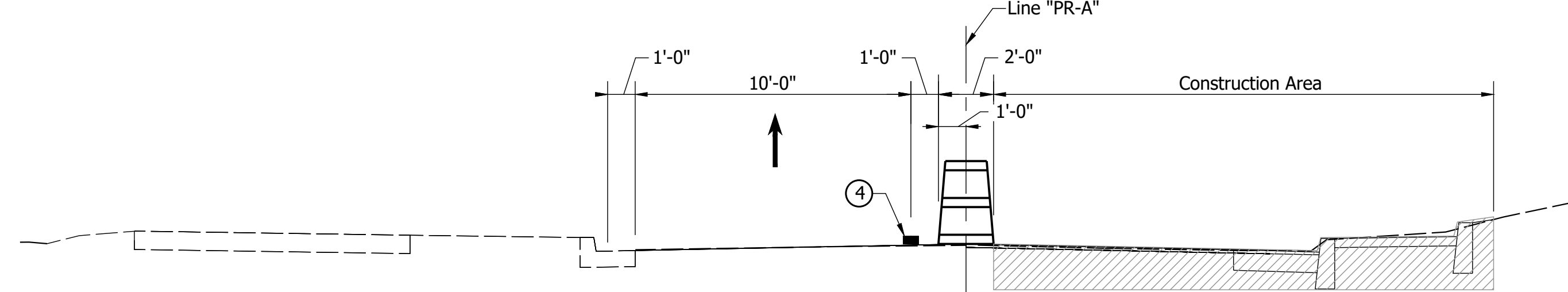
17th STREET MULTI-USE PATH
CONSTRUCTION PLANS
CITY OF BLOOMINGTON, INDIANA

REFERENCE & BENCHMARKS INDEX

HORIZONTAL SCALE	BRIDGE FILE
No Scale	N/A
VERTICAL SCALE	DESIGNATION
-	N/A
SURVEY BOOK	SHEETS
	8 of 56
CONTRACT	PROJECT
-	- - -



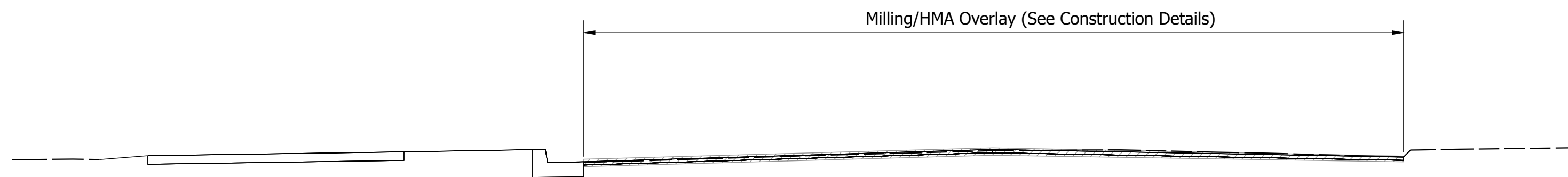
PHASE IA MOT TYPICAL SECTION
Sta. 138+75.00 to Sta. 146+00 "PR-A"



PHASE IB MOT TYPICAL SECTION
Sta. 138+75.00 to Sta. 147+90.50 "PR-A"

LEGEND

④ - Temporary Pavement Marking, Removable, Solid, White, 4"



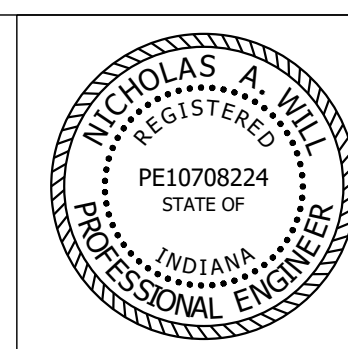
PHASE II MOT TYPICAL SECTION
Sta. 138+70.00 to Sta. 147+90.50 "PR-A"

Notes:

1. Milling & HMA Overlay operations utilizing INDOT Std. Dwg 801-TCFO-01 for Flagger Operations.
2. Temporary Pavement Marking, Removable Shall be Placed on HMA Surface Until Final Pavement Markings are installed.

MAINTENANCE OF TRAFFIC QUANTITIES - PROJECT																
Phase	Construction Sign, A	Construction Sign, B	Detour Route Marker Assembly	Road Closure Sign Assembly	Barricade, III-A	Barricade, III-B	Signal Head, Relocate	Controller Reset Timing	Temporary Pavement Marking, 4"	Temporary Pavement Marking, Removable, 4"	Temporary Transverse Pavement Marking, Removable, 6"	Temporary Pavement Message, Lane Indication Arrow	Temporary Pavement Message, Removable, Lane Indication Arrow	Temporary Pavement Marking, 24"	Temporary Pavement Marking, Removable, 24"	Temporary Pavement Marking, Removable, 5" (Black Tape)
	Each	Each	Each	Each	LFT	LFT	Each	Each	LFT	LFT	LFT	Each	Each	LFT	LFT	LFT
Phase I	50	45	10	3	96	70	2	2								
Project									500	1,100	200	1	5	100	100	400
TOTAL	50	45	10	3	96	70	2	2	500	1,100	200	1	5	100	100	400

Date: Mar 11, 2022, 3:44pm User Name: TLyons File: S:_2019\119-0055\Road_East Phase\CAD\MOT\MOT Typicals.dwg



RECOMMENDED FOR APPROVAL *Nicholas A. Will* 12/27/2021
DESIGN ENGINEER DATE

DESIGNED: JAF DRAWN: DAG
CHECKED: NAW CHECKED: JAF

17th STREET MULTI-USE PATH CONSTRUCTION PLANS
CITY OF BLOOMINGTON, INDIANA

MAINTENANCE OF TRAFFIC TYPICALS

HORIZONTAL SCALE	BRIDGE FILE
1/4"=1'-0"	N/A
VERTICAL SCALE	DESIGNATION
---	N/A
SURVEY BOOK	SHEETS
	9 of 56
CONTRACT	PROJECT

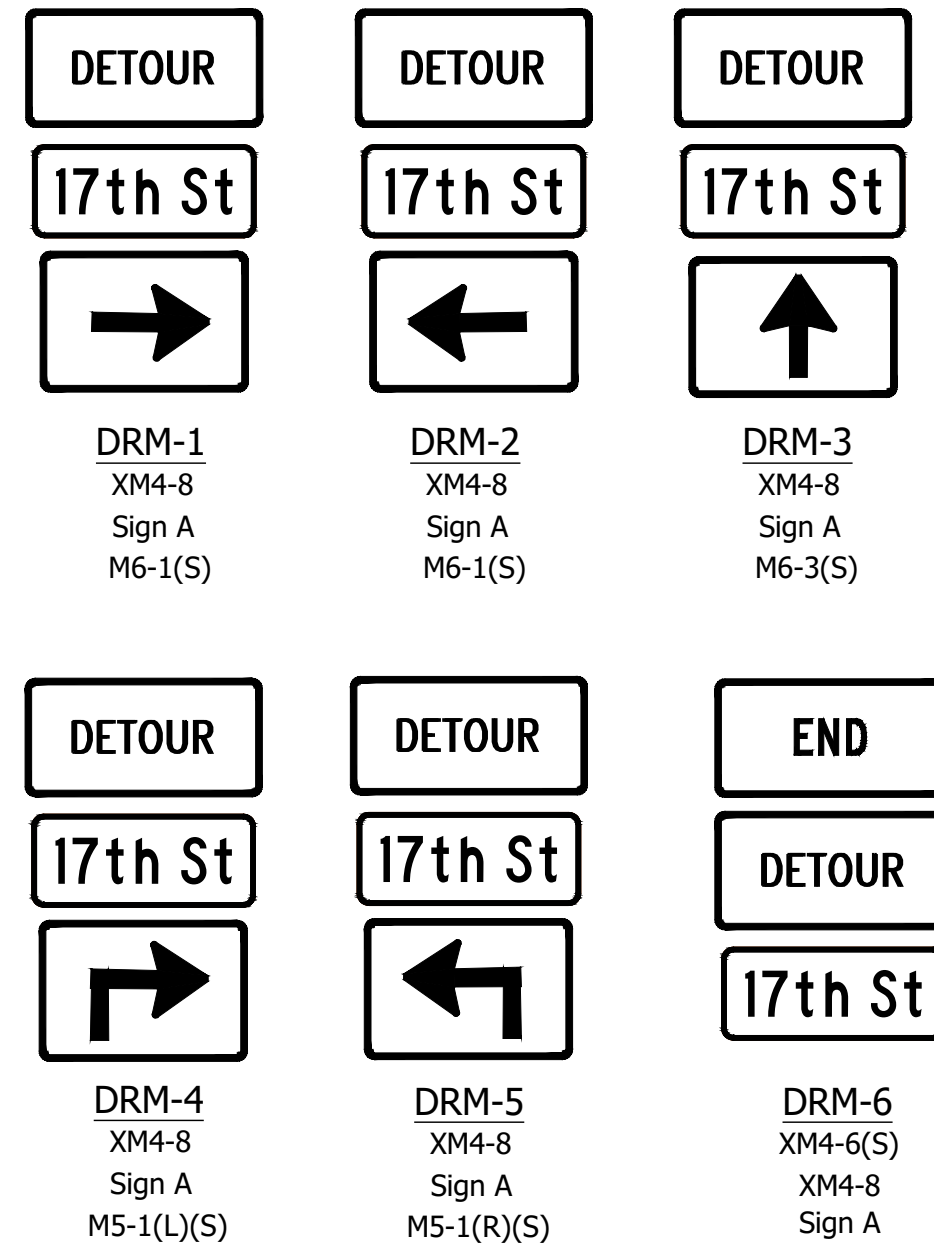


Sign A; 1.5" Radius, 0.5" Border, Black on Orange;
[17th St] 6" C Series;
Table of letter and object lefts.

l	7	t	h	s	t
3.0	5.2	9.6	13.4	19.4	23.7

ESTIMATED MAINTENANCE OF TRAFFIC QUANTITIES DETOUR

Construction Sign Type "A"	30 Each
Detour Route Marker Assembly	10 Each



LEGEND

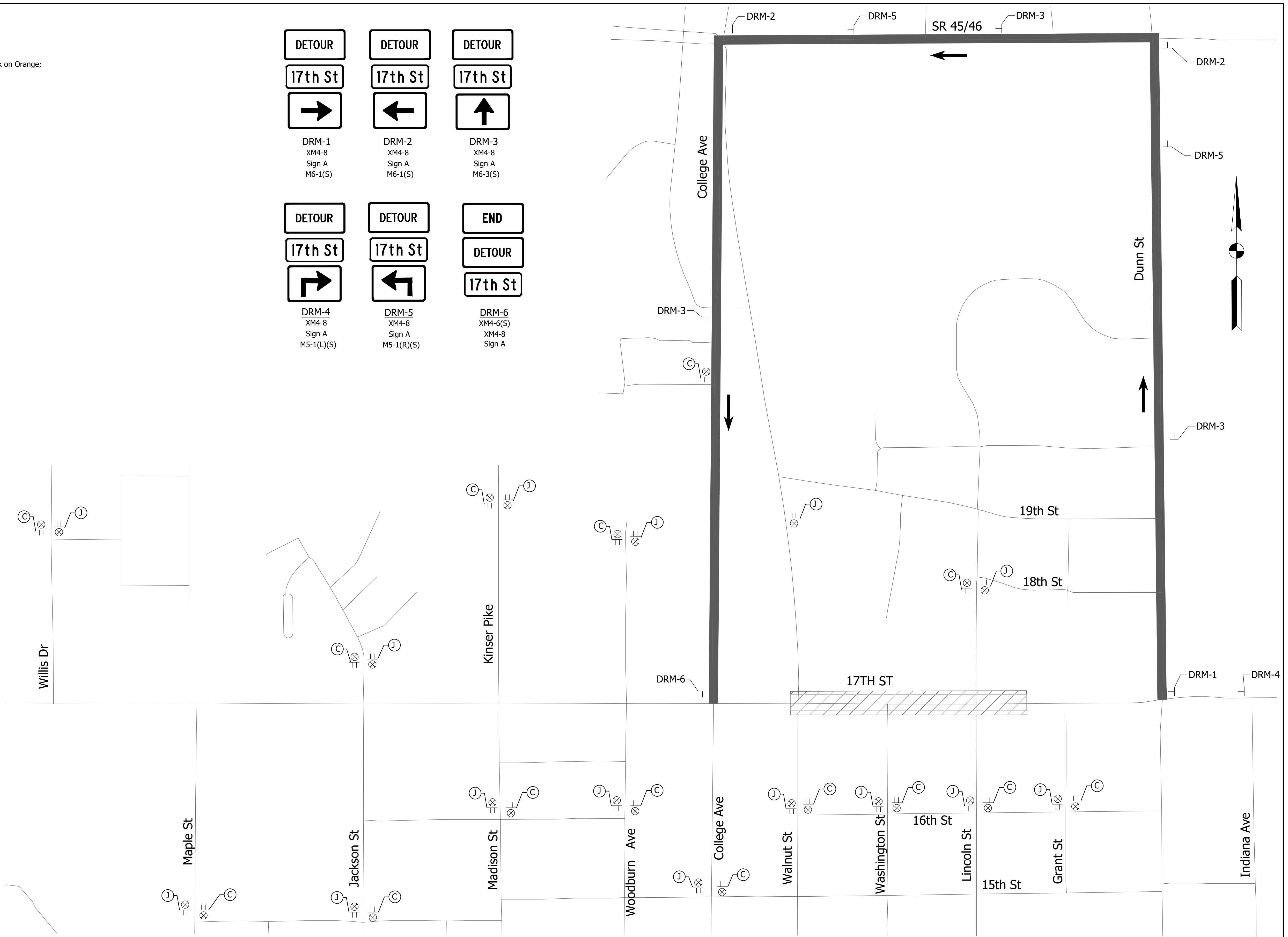
- (C) Construction Sign A, XW20-1 (Road Construction Ahead)
- (J) Construction Sign A, XG20-2 (End Construction)

LEGEND

- T Detour Route Marker
- TT Construction Sign
- ⊗ Construction Warning Light, A
- ** Construction Warning Light, B
- ▭ Work Area
- Detour Route

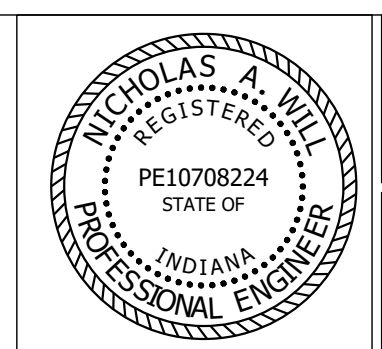
Notes:

1. Signs Shown are Approximate Locations. Actual Locations Should be Determined in the Field by the Project Engineer. 100' Minimum Spacing for Signage.
2. 10' Minimum Lane Width & Minimum 10:1 Taper Rates.
3. Cover Existing Signs/Signal Heads conflicting w/ Maintenance of Traffic Phasing
3. Construction Ahead & End Construction on Side Streets Required for all Phases.



PHASE I DETOUR

Date: Mar 11, 2022, 3:46pm User Name: TLyons File: S:_2019\119-0055\Road_East Phase\CAD\DOT\Phase IA MOT.dwg

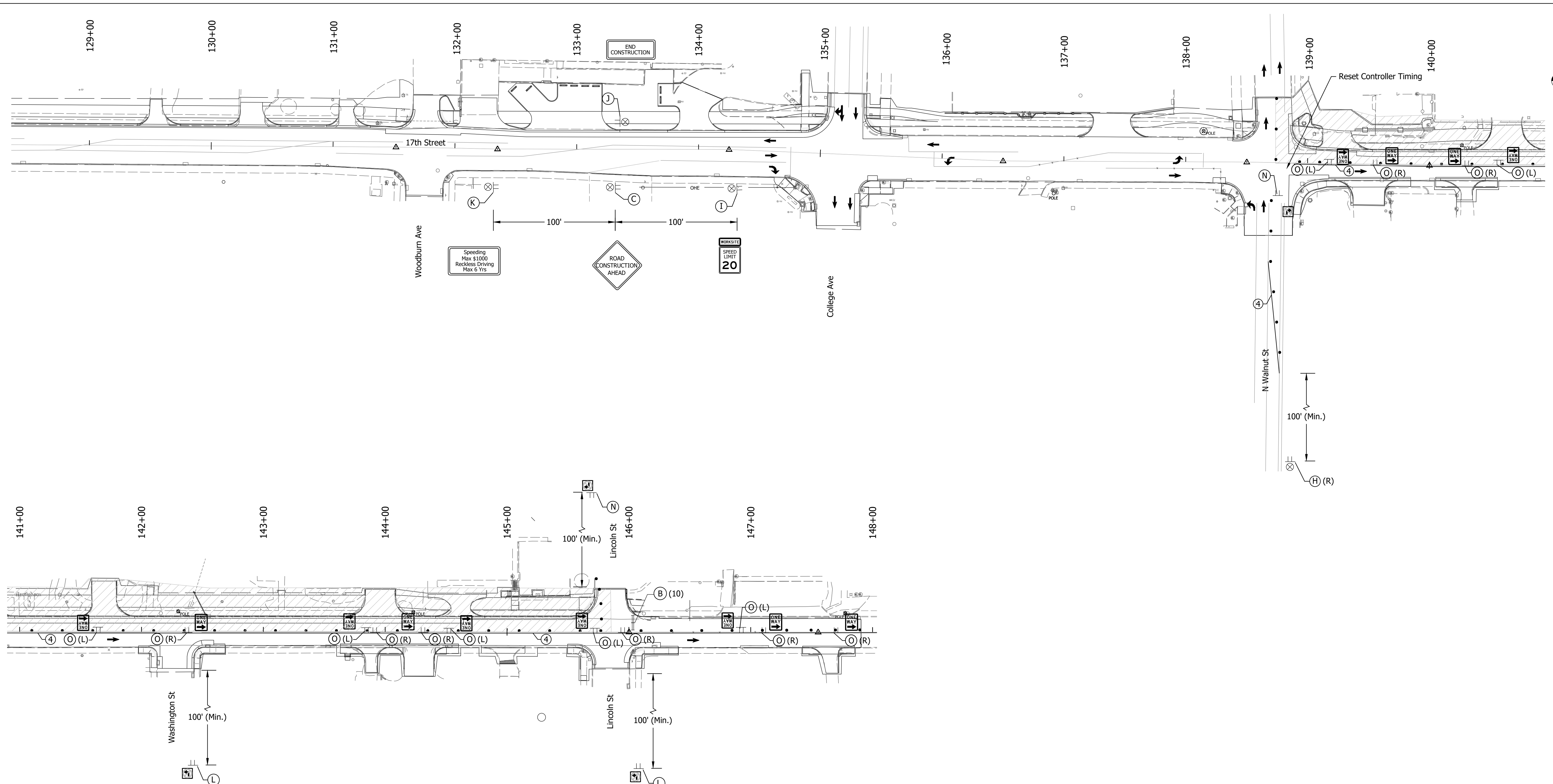


RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	12/27/2021
DESIGNED:	JAF	DRAWN:
CHECKED:	NAW	CHECKED:
		JAF

**17th STREET MULTI-USE PATH
CONSTRUCTION PLANS**
CITY OF BLOOMINGTON, INDIANA

**MAINTENANCE OF TRAFFIC
DETOUR PHASES IA & IB**

HORIZONTAL SCALE	BRIDGE FILE
1"=200'	N/A
VERTICAL SCALE	DESIGNATION
-	N/A
SURVEY BOOK	SHEET
	10 of 56
CONTRACT	PROJECT



LEGEND

- (B) Std. Barricade, Type III-B (Feet Req'd.)
- (C) Construction Sign A, XW20-1 (Road Construction Ahead)
- (D) Construction Sign A, XG20-3 (Road Closed Ahead)
- (E) Construction Sign A, XW20-2 (Detour Ahead)
- (G) Construction Sign A, W1-4 (L or R) (Reverse Curve Arrow)
- (H) Construction Sign A, W20-5 (Lane Closed Ahead)(L or R)
- (I) -Temporary Worksite Speed Limit Sign Assembly Sign A, R2-1-B (20 mph) & Sign B, XG20-5-B (Worksite)
- (J) Construction Sign A, XG20-2 (End Construction)

- (K) Construction Sign, A, XW2-6 (Worksite Penalty)
- (L) Construction Sign, B, R3-2 (No Left Turn)
- (M) Road Closure Sign Assembly; R11-2 (Road Closed) w/ XM4-10 (L or R) (Detour Arrow)
- (N) Construction Sign, B, R3-1 (No Right Turn)
- (O) Construction Sign, B, R6-2 (One Way)(L or R)
- (R) Road Closure Sign Assembly; R11-2 (Road Closed)
- (3) Black Temporary Tape, Type I
- (4) - Temporary Pavement Marking, Removable, Solid, White, 4"
- (5) - Temporary Pavement Marking, Removable, Solid, Yellow, 4"

LEGEND

- Standard Drum
- ⊥ Detour Route Marker
- ⊥ Construction Sign
- ⊗ Construction Warning Light, A
- ** Construction Warning Light, B
- ▬ Std. Barricade
- ▭ Work Area
- ▬ Detour Route
- Line, Remove

Notes:

1. Signs Shown are Approximate Locations. Actual Locations Should be Determined in the Field by the Project Engineer. 100' Minimum Spacing for Signage.
2. 10' Minimum Lane Width & Minimum 10:1 Taper Rates.
3. Cover Existing Signs/Signal Heads conflicting w/ Maintenance of Traffic Phasing

CONSTRUCTION ZONE DESIGN SPEED = 20 mph
POSTED SPEED LIMIT = 30 mph
WORK ZONE & SITE SPEED LIMIT = 20 mph

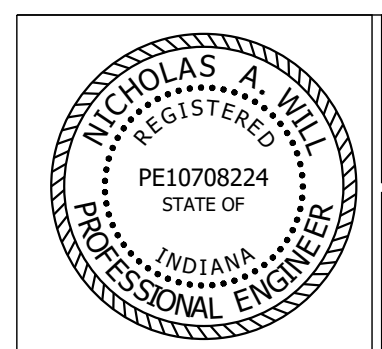
PHASE IA
N. Walnut Street to End of Project
Sta. 138+75 "PR-A" to Sta. 146+00 "PR-A"

- Detour Westbound Traffic onto Dunn Street, SR 45/46, and College Avenue
- Eastbound 17th Street Remains Open
- Construct Path, Approaches, Driveways, Curb Ramps, Patching, Walls, and Storm Sewer along North side of 17th Street from Walnut Street to Lincoln Street
- Maintain Access to Commercial and Private Properties at all Times

ESTIMATED MAINTENANCE OF TRAFFIC QUANTITIES

Std. Barricade, Type III-B	20 LFT
Road Closure Sign Assembly	1 Each
Construction Sign Type "A"	12 Each
Construction Sign Type "B"	25 Each
Controller Reset Timing	1 Each

Date: Mar 11, 2022, 3:47pm User Name: TLyons File: S:_2019\119-0055(Road_East Phase CAD)\MOT\Phase IA MOT.dwg

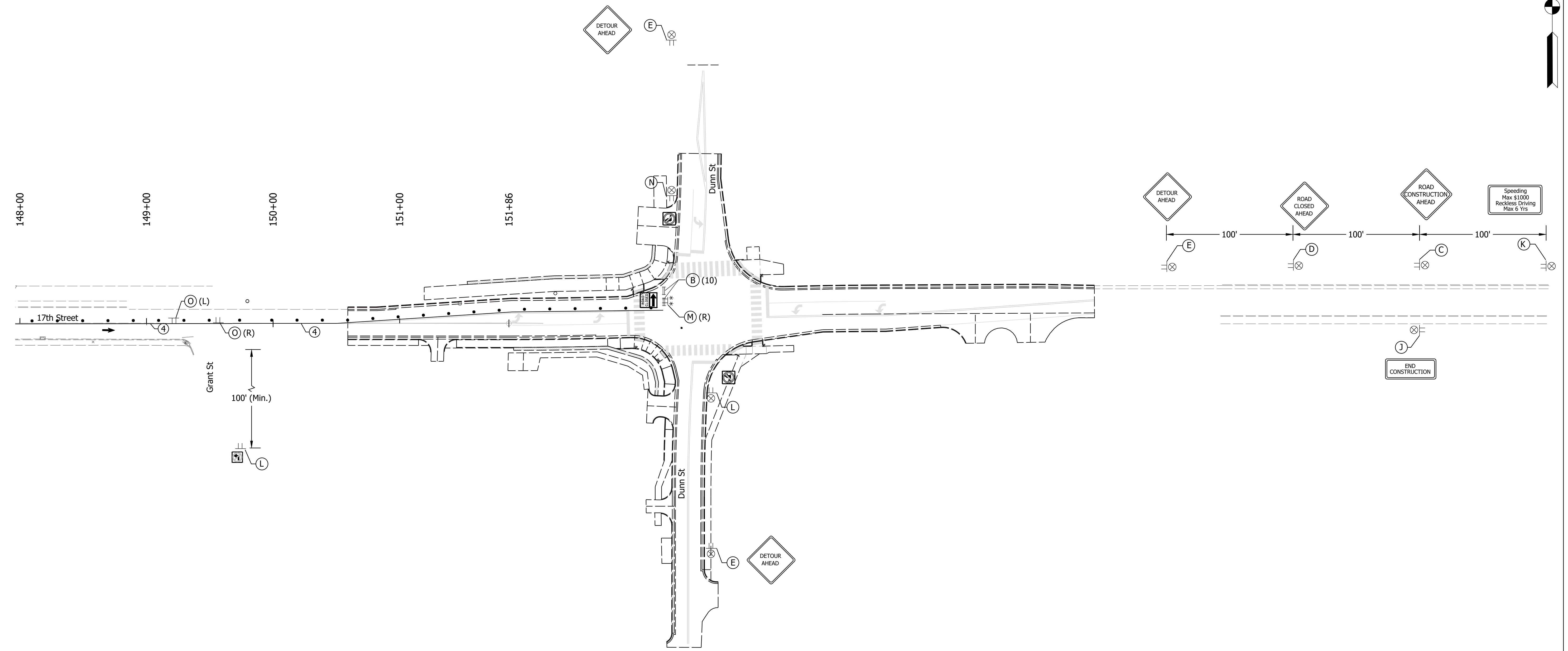
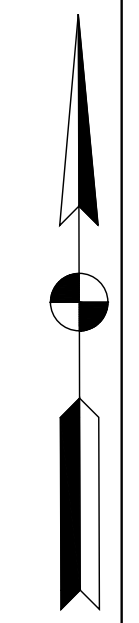


RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	12/27/2021	DATE
DESIGNED:	JAF	DRAWN:	DAG
CHECKED:	NAW	CHECKED:	JAF

17th STREET MULTI-USE PATH CONSTRUCTION PLANS
CITY OF BLOOMINGTON, INDIANA

MAINTENANCE OF TRAFFIC PHASE IA

HORIZONTAL SCALE	BRIDGE FILE
1"=40'	N/A
VERTICAL SCALE	DESIGNATION
-	N/A
SURVEY BOOK	SHEET
	11 of 56
CONTRACT	PROJECT



LEGEND

- (B) Std. Barricade, Type III-B (Feet Req'd.)
- (C) Construction Sign A, XW20-1 (Road Construction Ahead)
- (D) Construction Sign A, XG20-3 (Road Closed Ahead)
- (E) Construction Sign A, XW20-2 (Detour Ahead)
- (G) Construction Sign A, W1-4 (L or R) (Reverse Curve Arrow)
- (H) Construction Sign, A, W20-5 (Lane Closed Ahead)(L or R)
- (I) -Temporary Worksite Speed Limit Sign Assembly Sign A, R2-1-B (20 mph) & Sign B, XG20-5-B (Worksite)
- (J) Construction Sign A, XG20-2 (End Construction)

- (K) Construction Sign, A, XW2-6 (Worksite Penalty)
- (L) Construction Sign, B, R3-2 (No Left Turn)
- (M) Road Closure Sign Assembly; R11-2 (Road Closed) w/ XM4-10 (L or R) (Detour Arrow)
- (N) Construction Sign, B, R3-1 (No Right Turn)
- (O) Construction Sign, B, R6-2 (One Way)(L or R)
- (R) Road Closure Sign Assembly; R11-2 (Road Closed)
- (3) Black Temporary Tape, Type I
- (4) - Temporary Pavement Marking, Removable, Solid, White, 4"
- (5) - Temporary Pavement Marking, Removable, Solid, Yellow, 4"

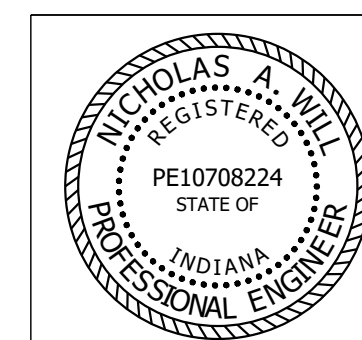
LEGEND

- Standard Drum
- ⊥ Detour Route Marker
- ⊥ Construction Sign
- ⊗ Construction Warning Light, A
- * * Construction Warning Light, B
- ▬ Std. Barricade
- ▬ Work Area
- ▬ Detour Route
- - - Line, Remove

Notes:

1. Signs Shown are Approximate Locations. Actual Locations Should be Determined in the Field by the Project Engineer. 100' Minimum Spacing for Signage.
2. 10' Minimum Lane Width & Minimum 10:1 Taper Rates.
3. Cover Existing Signs/Signal Heads conflicting w/ Maintenance of Traffic Phasing

CONSTRUCTION ZONE DESIGN SPEED = 20 mph
POSTED SPEED LIMIT = 30 mph
WORK ZONE & SITE SPEED LIMIT = 20 mph

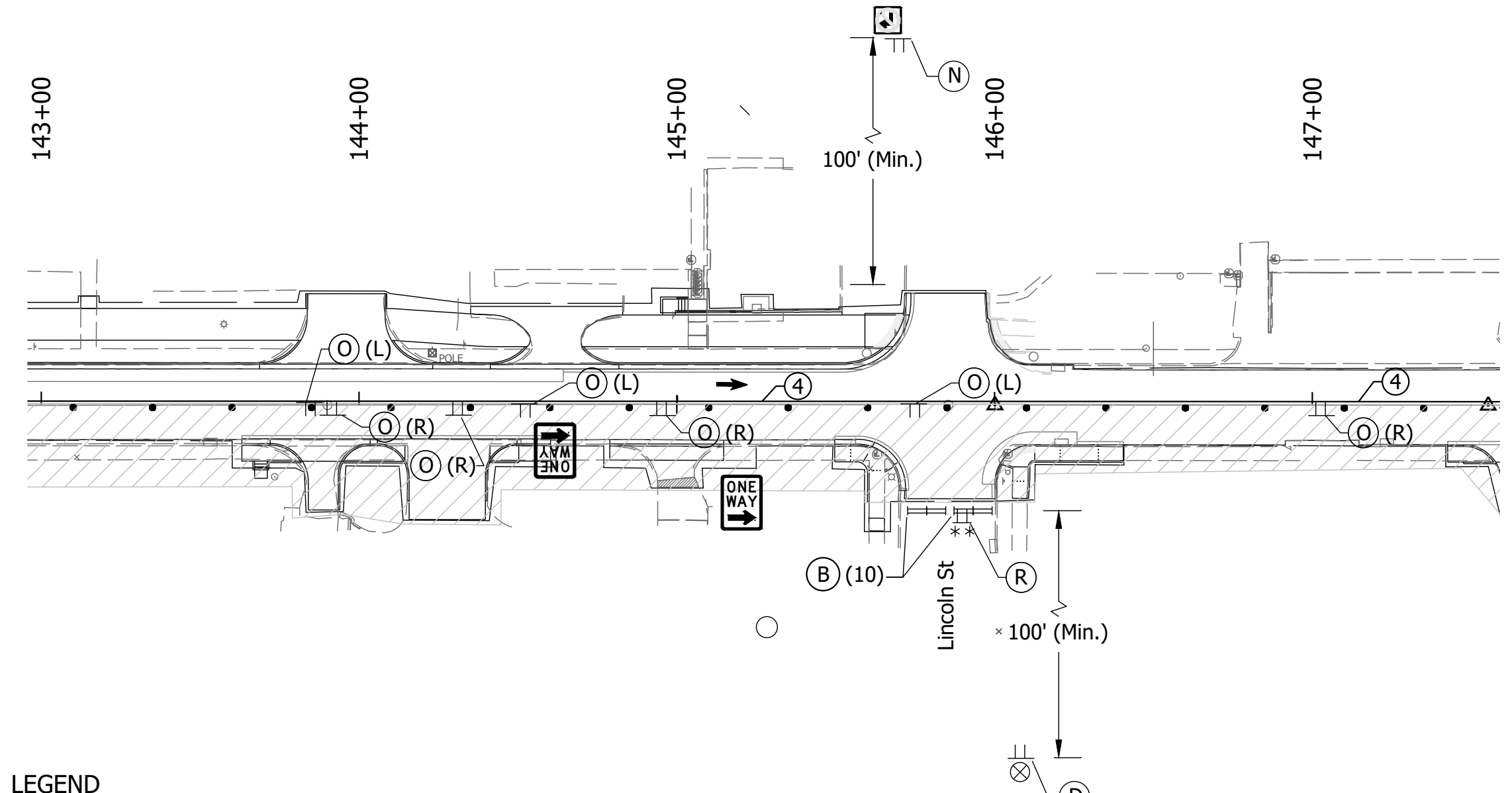
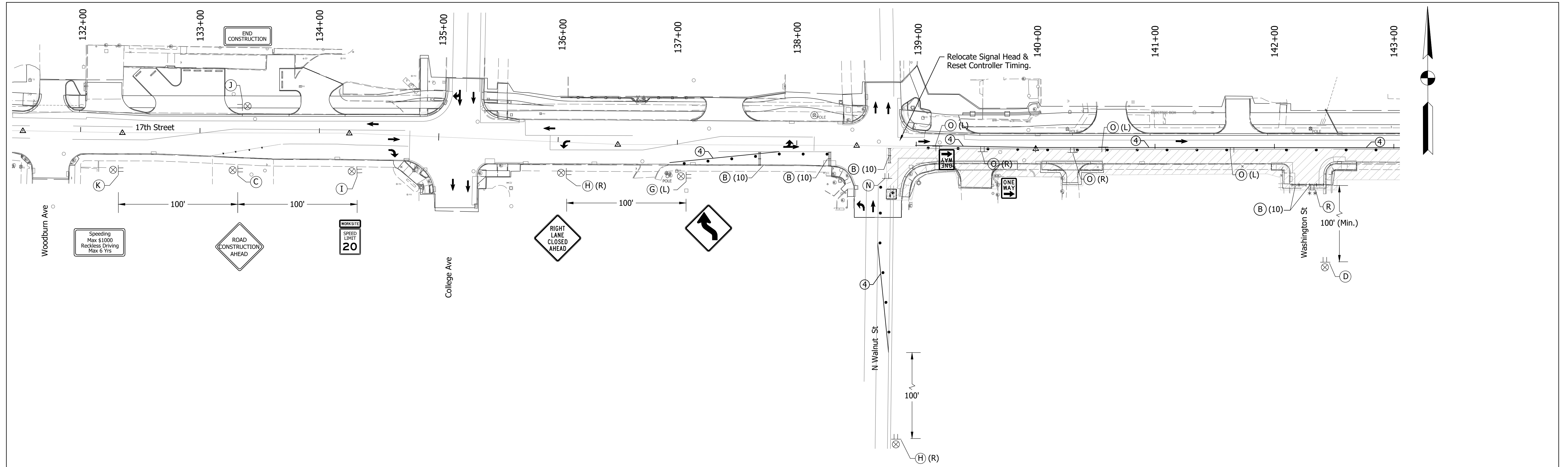


RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	12/27/2021
DESIGNED:	JAF	DRAWN: DAG
CHECKED:	NAW	CHECKED: JAF

17th STREET MULTI-USE PATH CONSTRUCTION PLANS	
CITY OF BLOOMINGTON, INDIANA	
MAINTENANCE OF TRAFFIC PHASE IA	

HORIZONTAL SCALE	BRIDGE FILE
1"=40'	N/A
VERTICAL SCALE	DESIGNATION
-	N/A
SURVEY BOOK	SHEET
	12 of 56
CONTRACT	PROJECT
-	-

Date: Mar 11, 2022, 3:47pm User Name: T Lyons File: S:_2019\119-0055(Road_East Phase CAD)\MOT\Phase IA MOT.dwg



- (B) Std. Barricade, Type III-B (Feet Req'd.)
- (C) Construction Sign A, XW20-1 (Road Construction Ahead)
- (D) Construction Sign A, XG20-3 (Road Closed Ahead)
- (E) Construction Sign A, XW20-2 (Detour Ahead)
- (H) Construction Sign, A, W20-5 (Lane Closed Ahead)(L or R)
- (I) -Temporary Worksite Speed Limit Sign Assembly Sign A, R2-1-B (20 mph) & Sign B, XG20-5-B (Worksite)
- (J) Construction Sign A, XG20-2 (End Construction)

LEGEND

- (K) Construction Sign, A, XW2-6 (Worksite Penalty)
- (L) Construction Sign, B, R3-2 (No Left Turn)
- (M) Road Closure Sign Assembly; R11-2 (Road Closed) w/ XM4-10 (L or R) (Detour Arrow)
- (N) Construction Sign, B, R3-1 (No Right Turn)
- (O) Construction Sign, B, R6-2 (One Way)(L or R)
- (R) Road Closure Sign Assembly; R11-2 (Road Closed)
- (3) Black Temporary Tape, Type I
- (4) - Temporary Pavement Marking, Removable, Solid, White, 4"
- (5) - Temporary Pavement Marking, Removable, Solid, Yellow, 4"

LEGEND

- Standard Drum
- T Detour Route Marker
- TT Construction Sign
- ⊗ Construction Warning Light, A
- ** Construction Warning Light, B
- ▭ Std. Barricade
- ▨ Work Area
- Detour Route
- x-x- Line, Remove

Notes:

1. Signs Shown are Approximate Locations. Actual Locations Should be Determined in the Field by the Project Engineer. 100' Minimum Spacing for Signage.
2. 10' Minimum Lane Width & Minimum 10:1 Taper Rates.
3. Cover Existing Signs/Signal Heads conflicting w/ Maintenance of Traffic Phasing

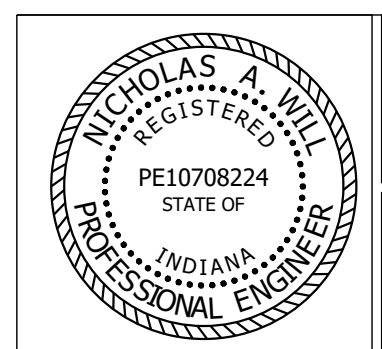
CONSTRUCTION ZONE DESIGN SPEED = 20 mph
POSTED SPEED LIMIT = 30 mph
WORK ZONE & SITE SPEED LIMIT = 20 mph

PHASE IB
N. Walnut Street to End of Project
Sta. 138+75 "PR-A" to Sta. 147+90.50 "PR-A"

- Detour Westbound Traffic onto Dunn Street, SR 45/46, and College Avenue
- Shift Eastbound Traffic onto North side of 17th Street
- Construct Curb Ramps, Patching, and Storm Sewer along South side of 17th Street from Walnut Street to Lincoln Street
- Maintain Access to Commercial and Private Properties at all Times

ESTIMATED MAINTENANCE OF TRAFFIC QUANTITIES	
Std. Barricade, Type III-B	70 LFT
Road Closure Sign Assembly	3 Each
Construction Sign Type "A"	16 Each
Construction Sign Type "B"	21 Each
Signal Head, Relocate	2 Each
Controller Reset Timing	1 Each

Date: Mar 11, 2022, 3:49pm User Name: T Lyons File: S:_2019\119-0055\Road_East Phase(CAD)\MOT\Phase IB MOT.dwg

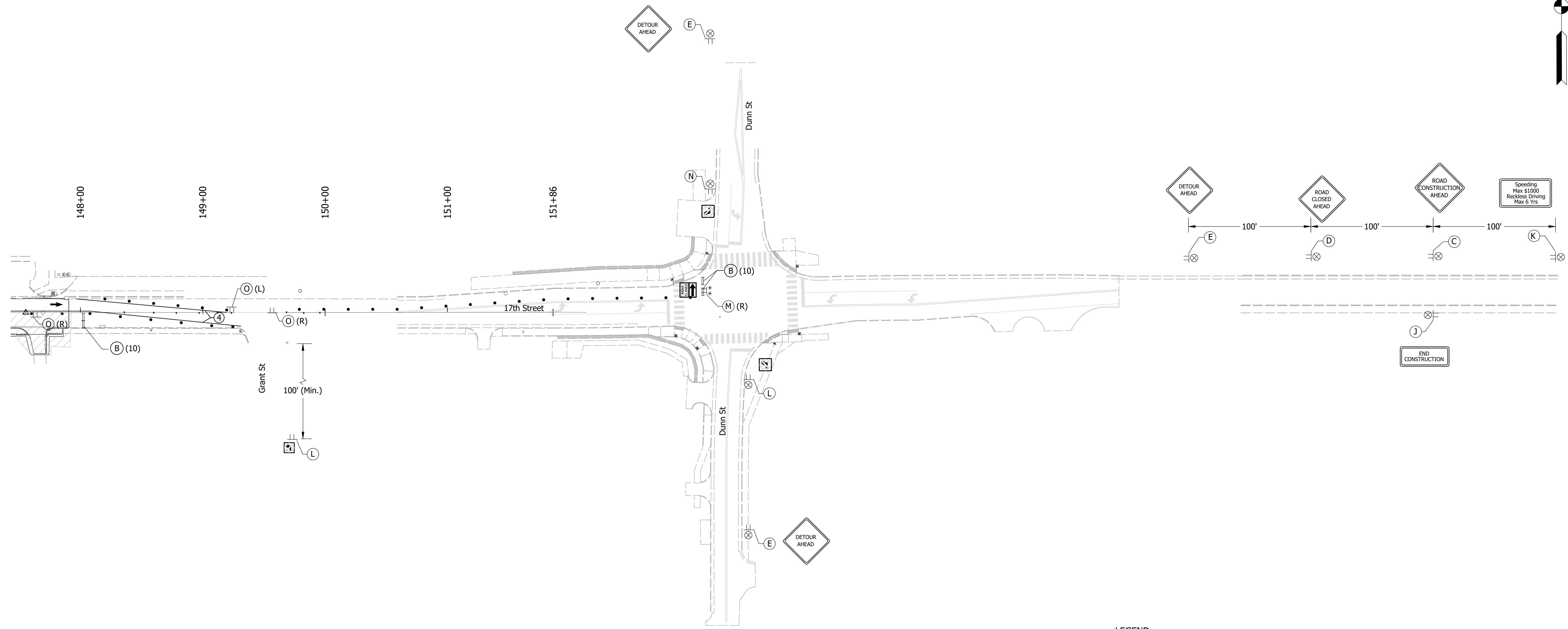
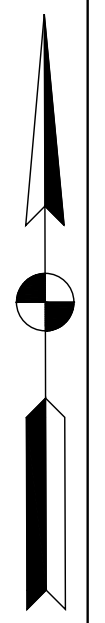


RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	12/27/2021
DESIGNED:	JAF	DRAWN:
CHECKED:	NAW	CHECKED:

17th STREET MULTI-USE PATH CONSTRUCTION PLANS
CITY OF BLOOMINGTON, INDIANA

MAINTENANCE OF TRAFFIC PHASE IB

HORIZONTAL SCALE	BRIDGE FILE
1"=40'	N/A
VERTICAL SCALE	DESIGNATION
-	N/A
SURVEY BOOK	SHEET
-	13 of 56
CONTRACT	PROJECT
-	-



- (B) Std. Barricade, Type III-B (Feet Req'd.)
- (C) Construction Sign A, XW20-1 (Road Construction Ahead)
- (D) Construction Sign A, XG20-3 (Road Closed Ahead)
- (E) Construction Sign A, XW20-2 (Detour Ahead)
- (H) Construction Sign, A, W20-5 (Lane Closed Ahead)(L or R)
- (I) -Temporary Worksite Speed Limit Sign Assembly
Sign A, R2-1-B (20 mph) & Sign B, XG20-5-B (Worksite)
- (J) Construction Sign A, XG20-2 (End Construction)

LEGEND

- (K) Construction Sign, A, XW2-6 (Worksite Penalty)
- (L) Construction Sign, B, R3-2 (No Left Turn)
- (M) Road Closure Sign Assembly; R11-2 (Road Closed)
w/ XM4-10 (L or R) (Detour Arrow)
- (N) Construction Sign, B, R3-1 (No Right Turn)
- (O) Construction Sign, B, R6-2 (One Way)(L or R)
- (R) Road Closure Sign Assembly; R11-2 (Road Closed)
- (3) Black Temporary Tape, Type I
- (4) - Temporary Pavement Marking, Removable, Solid, White, 4"
- (5) - Temporary Pavement Marking, Removable, Solid, Yellow, 4"

LEGEND

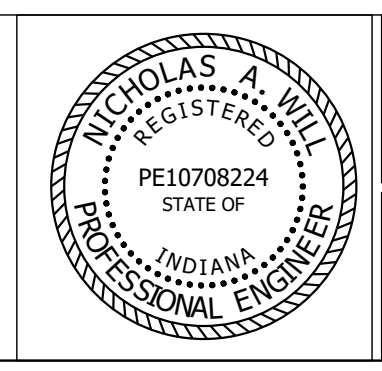
- Standard Drum
- T Detour Route Marker
- ⊗ Construction Sign
- ⊗ Construction Warning Light, A
- * * Construction Warning Light, B
- ≡ Std. Barricade
- ▭ Work Area
- Detour Route
- *- Line, Remove

CONSTRUCTION ZONE DESIGN SPEED = 20 mph
POSTED SPEED LIMIT = 30 mph
WORK ZONE & SITE SPEED LIMIT = 20 mph

Notes:

- Signs Shown are Approximate Locations. Actual Locations Should be Determined in the Field by the Project Engineer. 100' Minimum Spacing for Signage.
- 10' Minimum Lane Width & Minimum 10:1 Taper Rates.

Date: Mar 11, 2022, 3:50pm User Name: T Lyons File: S:_2019\119-0055(Road_East Phase)\CAD\DOT\Phase 1B MOT.dwg

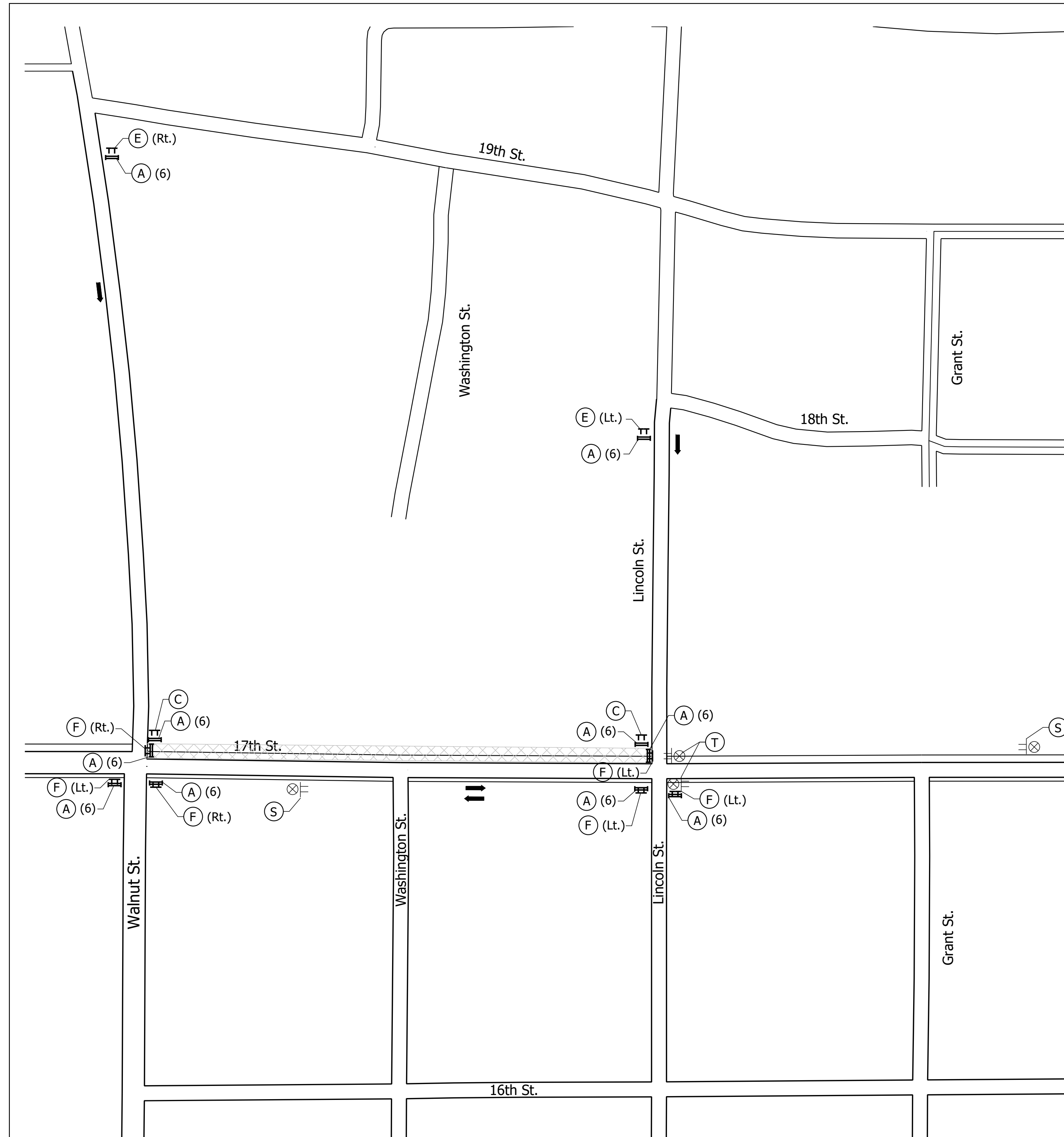


RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	12/27/2021
DESIGNED: JAF	DRAWN: DAG	DATE
CHECKED: NAW	CHECKED: JAF	

**17th STREET MULTI-USE PATH
CONSTRUCTION PLANS**
CITY OF BLOOMINGTON, INDIANA

**MAINTENANCE OF TRAFFIC
PHASE 1B**

HORIZONTAL SCALE	BRIDGE FILE
1"=40'	N/A
VERTICAL SCALE	DESIGNATION
-	N/A
SURVEY BOOK	SHEET
-	14 of 56
CONTRACT	PROJECT
-	- - -



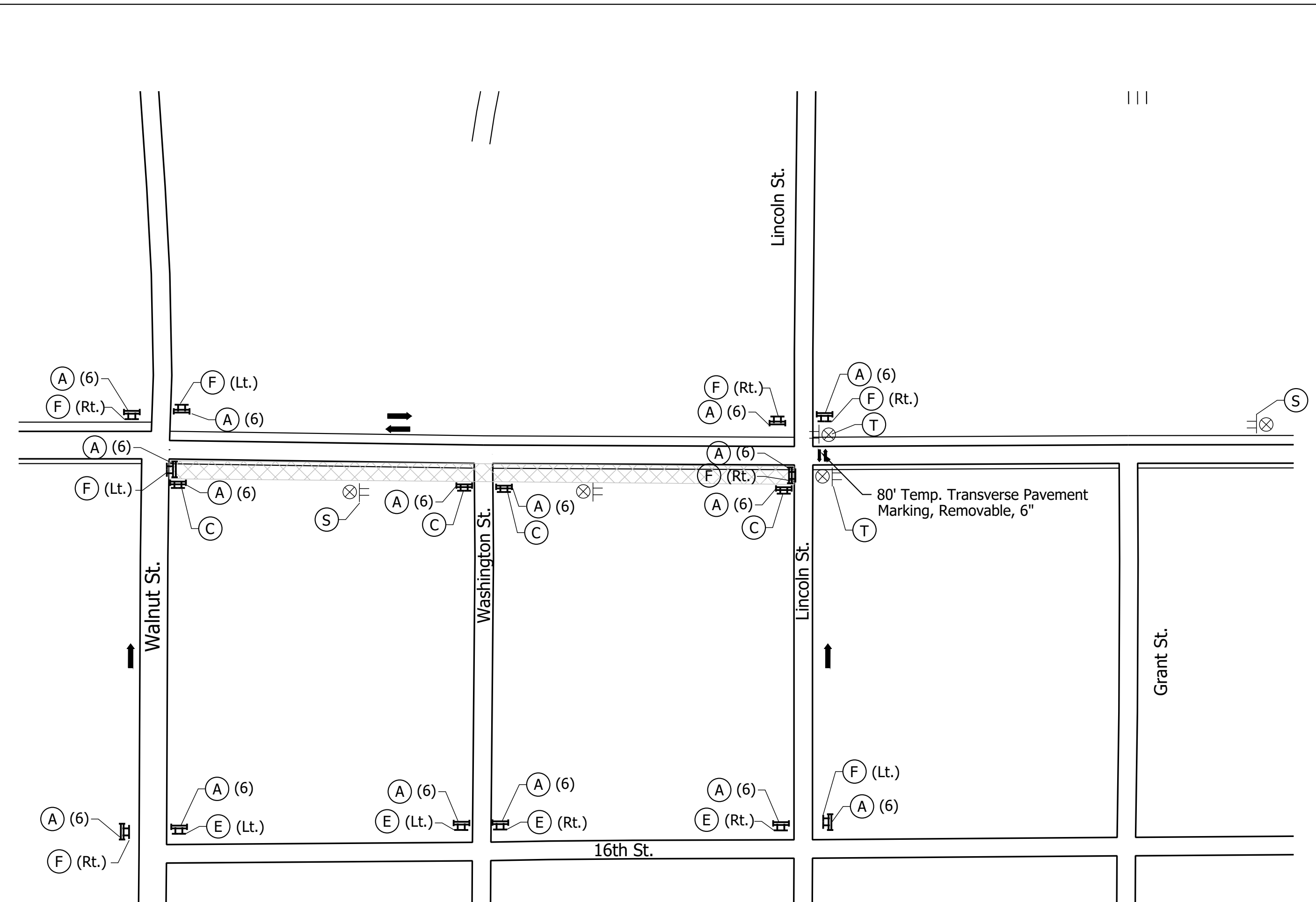
PEDESTRIAN MAINTENANCE OF TRAFFIC PHASE IA

N. Walnut Street to End of Project

- Phase IA**
- Close Sidewalk along North side of 17th Street from Walnut Street to Lincoln Street
 - Detour Pedestrians onto existing sidewalk along South side of 17th Street from Walnut Street to Lincoln Street

PEDESTRIAN MAINTENANCE OF TRAFFIC ESTIMATED QUANTITIES

Standard Barricade, Type III-A - 60 LFT.
Construction Sign Type A - 4 Each
Construction Sign Type B - 14 Each



PEDESTRIAN MAINTENANCE OF TRAFFIC PHASE IB

N. Walnut Street to End of Project

Phase IB

- Close Sidewalk along South side of 17th Street from Walnut Street to Lincoln Street
- Detour Pedestrians onto proposed path along North side of 17th Street from Walnut Street to Lincoln Street

PEDESTRIAN MAINTENANCE OF TRAFFIC ESTIMATED QUANTITIES

Standard Barricade, Type III-A - 96 LFT.
Construction Sign Type A - 4 Each
Construction Sign Type B - 20 Each

LEGEND

- (A) - Std. Barricade, Type III-A (Feet Req'd)
- (C) - Construction Sign B, R9-9 (Sidewalk Closed)
- (D) - Construction Sign B, R9-10 (Sidewalk Closed Use Other Side)
- (E) - Construction Sign B, R9-11 (Sidewalk Closed Ahead Cross Here) (L or R)
- (F) - Construction Sign B, M4-9A (Pedestrian Detour) (L or R)
- (S) Sign A, W11-2 & Sign B, W16-9p
- (T) Sign A, W11-2 & Sign B, W16-7pL
- ⊗ Construction Warning Light, A
- ▬ - Std. Barricade
- ⊠ - Construction Sign
- ▨ - Area Under Construction



R9-9

(C)



R9-10

(D) (Lt. & Rt.)



R9-11

(E) (Lt. & Rt.)

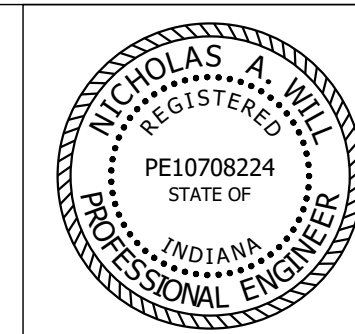


M4-9A

(F) (Lt. & Rt.)

Notes:

- Signs Shown are Approximate Locations. Actual Locations Should be Determined in the Field by the Project Engineer. 100' Minimum Spacing for Signage.

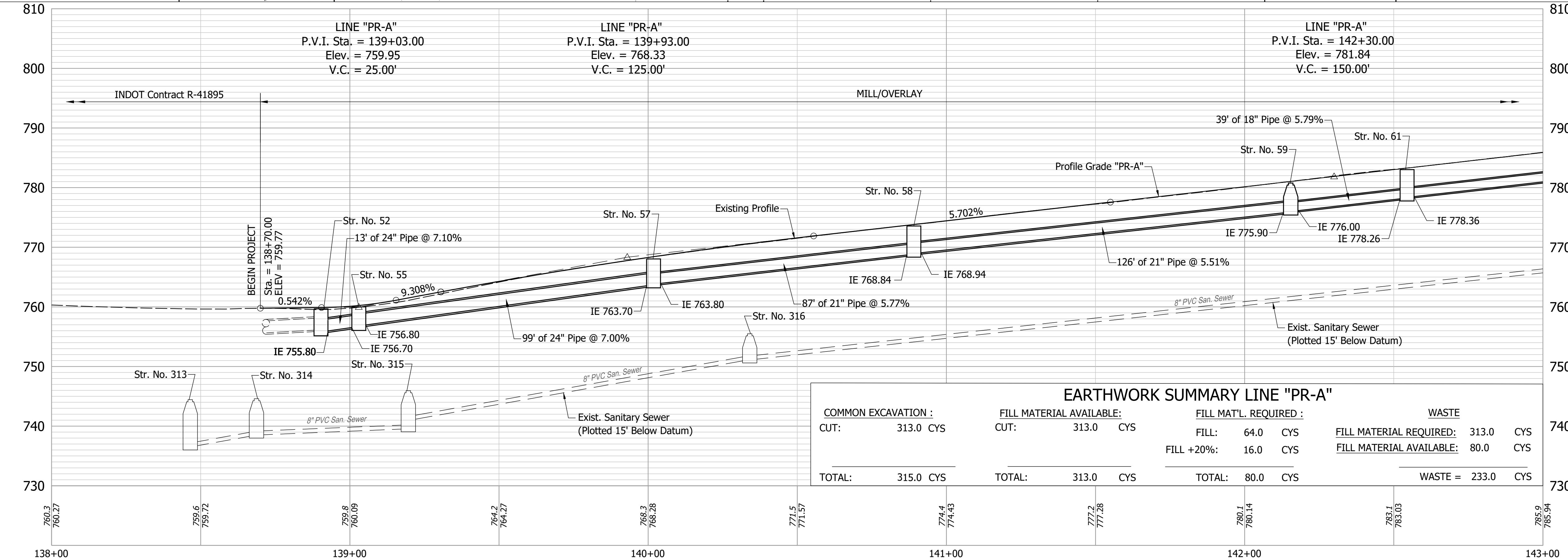
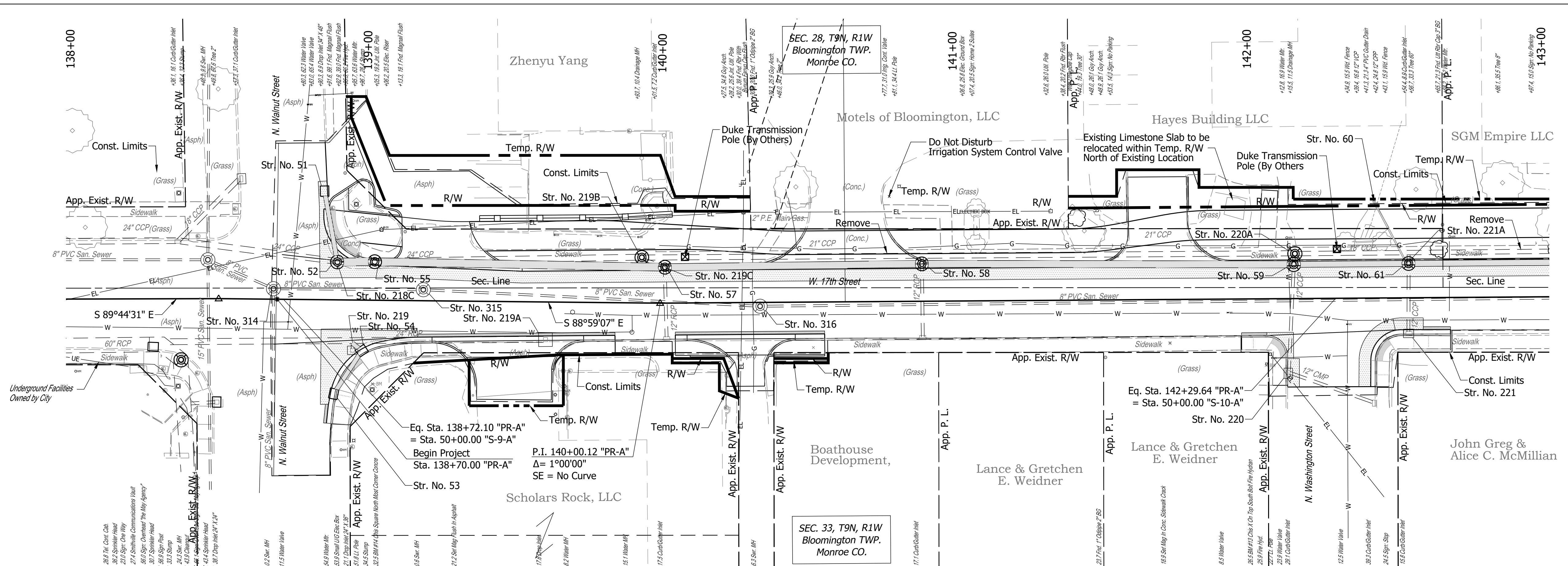


RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	12/27/2021	DATE
DESIGNED:	JAF	DRAWN:	DAG
CHECKED:	NAW	CHECKED:	JAF

17th STREET MULTI-USE PATH CONSTRUCTION PLANS
CITY OF BLOOMINGTON, INDIANA

PEDESTRIAN MAINTENANCE OF TRAFFIC - PHASE IA & IB

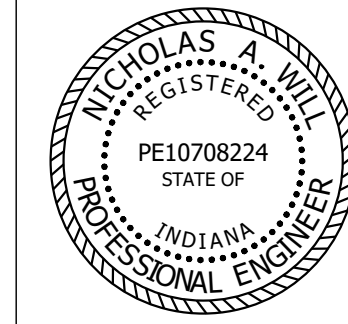
HORIZONTAL SCALE	BRIDGE FILE
1"=100'	N/A
VERTICAL SCALE	DESIGNATION
-	N/A
SURVEY BOOK	SHEETS
-	15 of 56
CONTRACT	PROJECT
-	-



EARTHWORK SUMMARY LINE "PR-A"			
COMMON EXCAVATION :	FILL MATERIAL AVAILABLE:	FILL MAT'L. REQUIRED :	WASTE
CUT: 313.0 CYS	CUT: 313.0 CYS	FILL: 64.0 CYS	FILL MATERIAL REQUIRED: 313.0 CYS
		FILL +20%: 16.0 CYS	FILL MATERIAL AVAILABLE: 80.0 CYS
TOTAL: 315.0 CYS	TOTAL: 313.0 CYS	TOTAL: 80.0 CYS	WASTE = 233.0 CYS

Date: Mar 11, 2022, 3:53pm User Name: TLyons
 File: S:_2019\119-0055\Road\East Phase\CAD\PROP\PRP Line PR-A.dwg

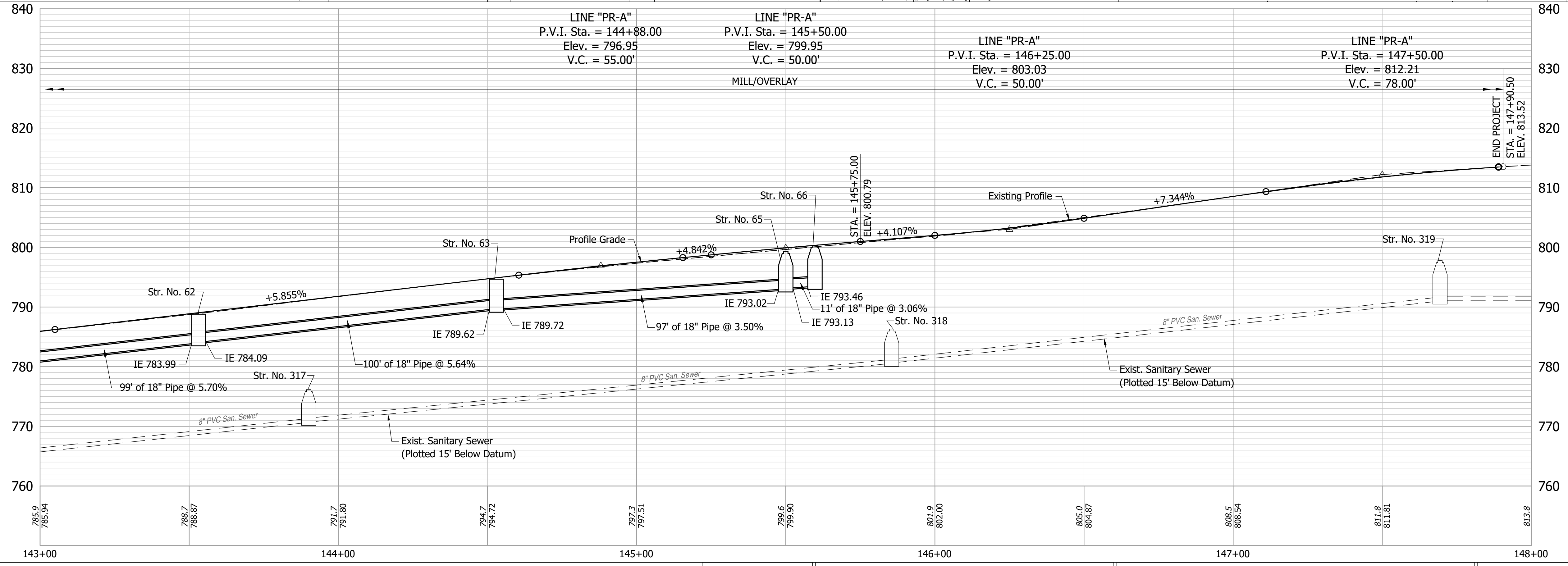
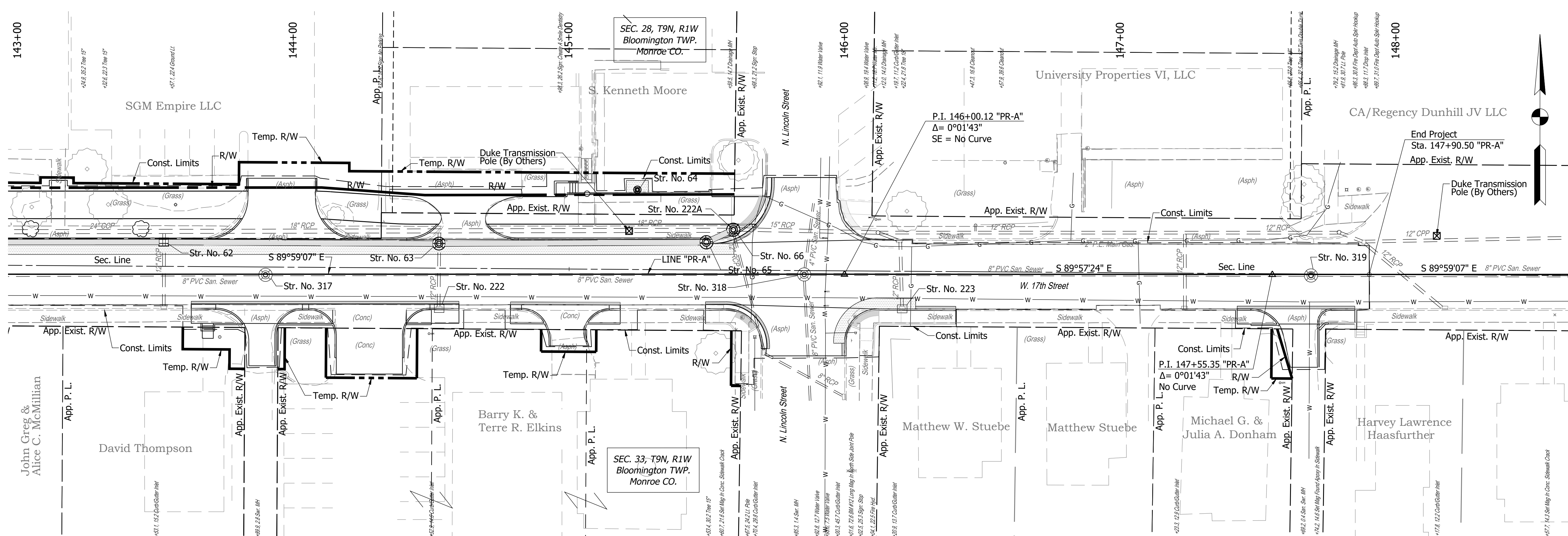
Notes:
 All Stationing off Line "PR-A" Unless Otherwise Noted.
 For R/W Information, See Right-Of-Way Details
 For All Driveway Types & Information, See Construction Detail Sheets.
 For Structure Notes & Additional Structure Information, See Construction Detail Sheets.
 For Additional Information, See Construction Detail Sheets.



RECOMMENDED FOR APPROVAL: *Nicholas A. Will*
 DESIGN ENGINEER 12/27/2021 DATE
 DESIGNED: JAF DRAWN: DAG
 CHECKED: NAW CHECKED: JAF

**17th STREET MULTI-USE PATH
 CONSTRUCTION PLANS**
 CITY OF BLOOMINGTON, INDIANA
**PLAN & PROFILE LINE "PR-A"
 STA. 138+70 TO 143+00**

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
1"=10'	N/A
SURVEY BOOK	SHEETS
CONTRACT	16 of 56
	PROJECT



Notes:
 All Stationing off Line "PR-A" Unless Otherwise Noted.
 For R/W Information, See Right-Of-Way Details
 For All Driveway Types & Information, See Construction Detail Sheets.
 For Structure Notes & Additional Structure Information, See Construction Detail Sheets.
 For Additional Information, See Construction Detail Sheets.

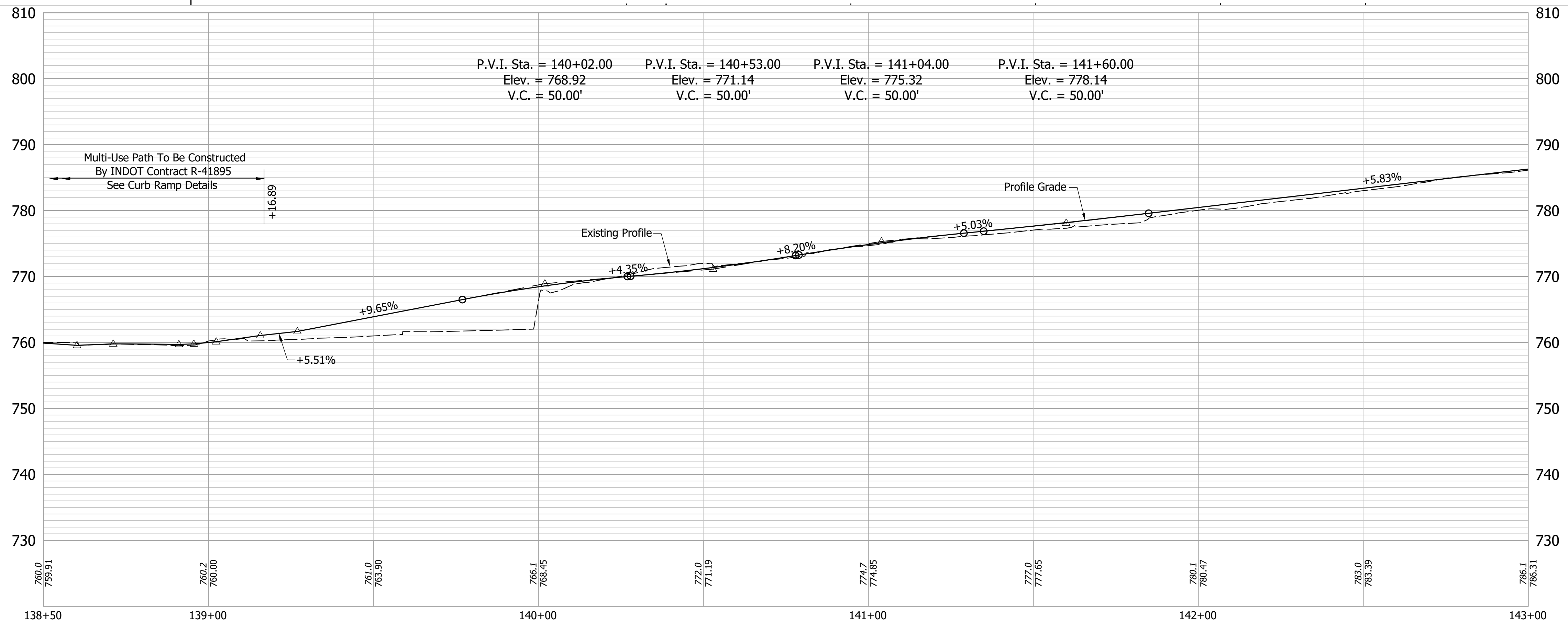
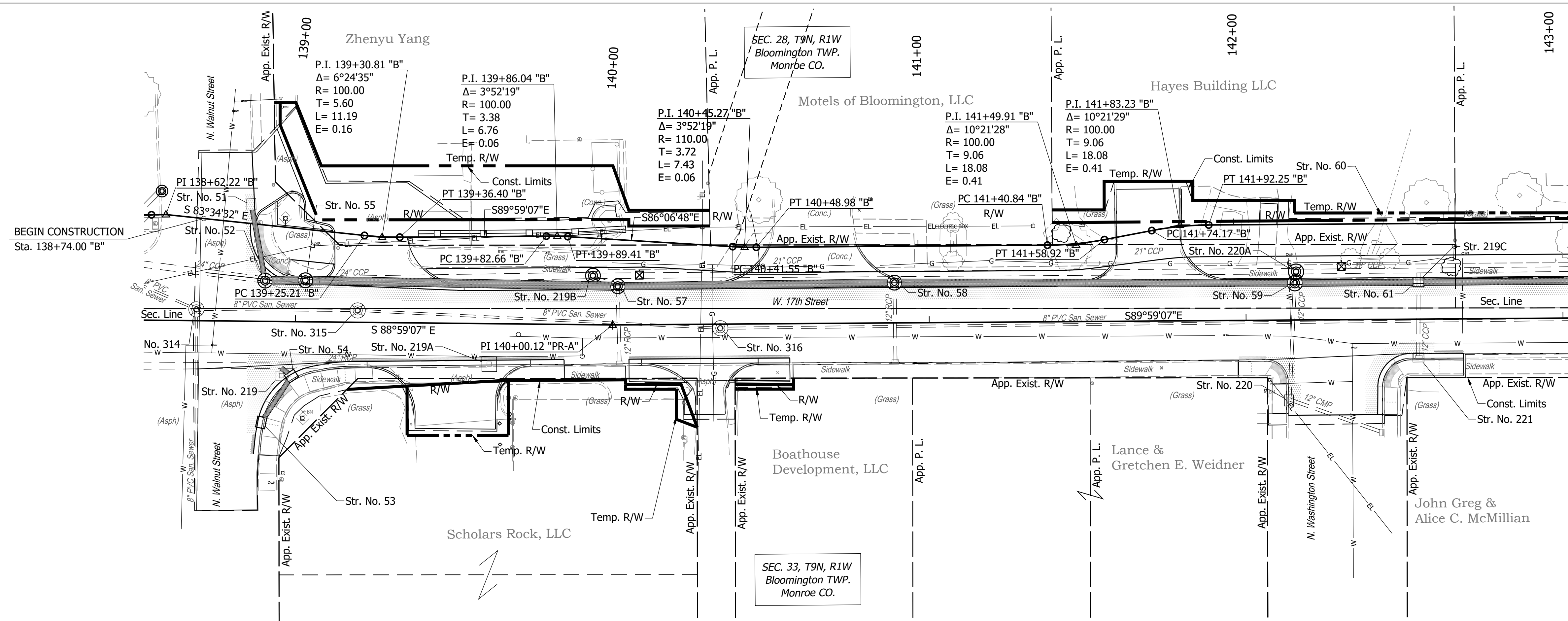


RECOMMENDED FOR APPROVAL
 DESIGN ENGINEER
 DATE: 12/27/2021
 DESIGNED: JAF DRAWN: DAG
 CHECKED: NAW CHECKED: JAF

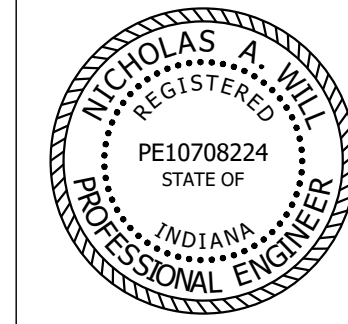
**17th STREET MULTI-USE PATH
 CONSTRUCTION PLANS**
 CITY OF BLOOMINGTON, INDIANA
**PLAN & PROFILE LINE "PR-A"
 STA. 143+00 TO 148+00**

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
1"=10'	N/A
SURVEY BOOK	SHEETS
	17 of 56
CONTRACT	PROJECT

Date: Mar 11, 2022, 3:54pm User Name: T Lyons File: S:_2019\119-0055\Road\East Phase\CAD\Prop\PRP Line PR-A.dwg



Notes:
 All Stationing off Line "B" Unless Otherwise Noted.
 For R/W Information, See Right-Of-Way Details
 For All Driveway Types & Information, See Construction Detail Sheets.
 For Structure Notes & Additional Structure Information, See Construction Detail Sheet.

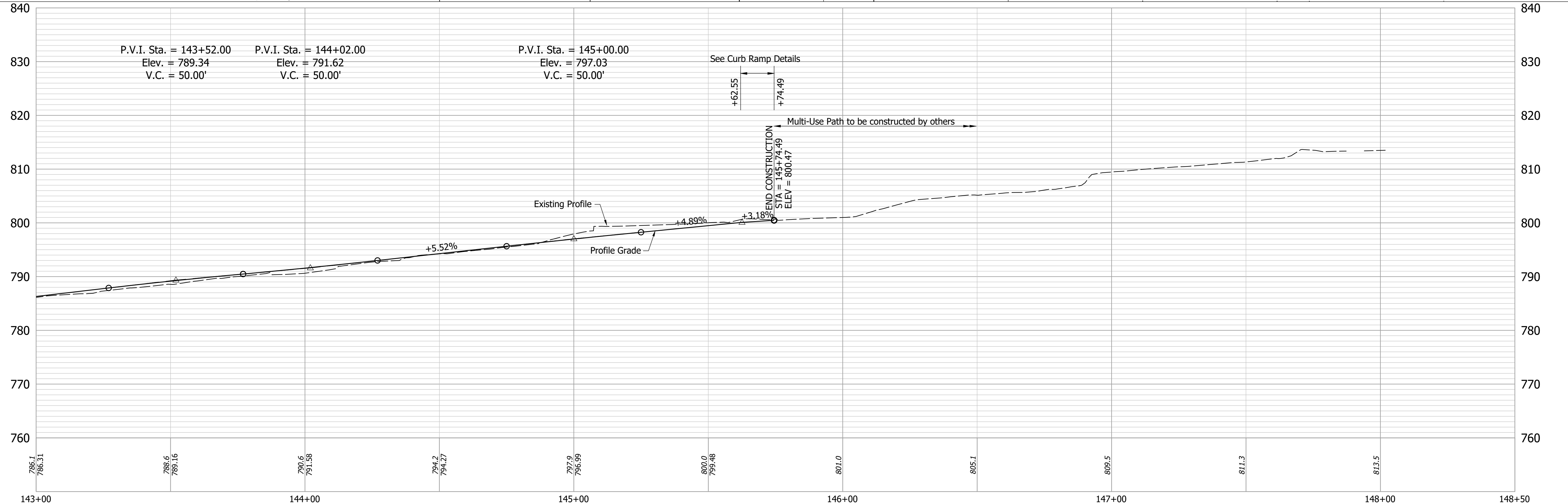
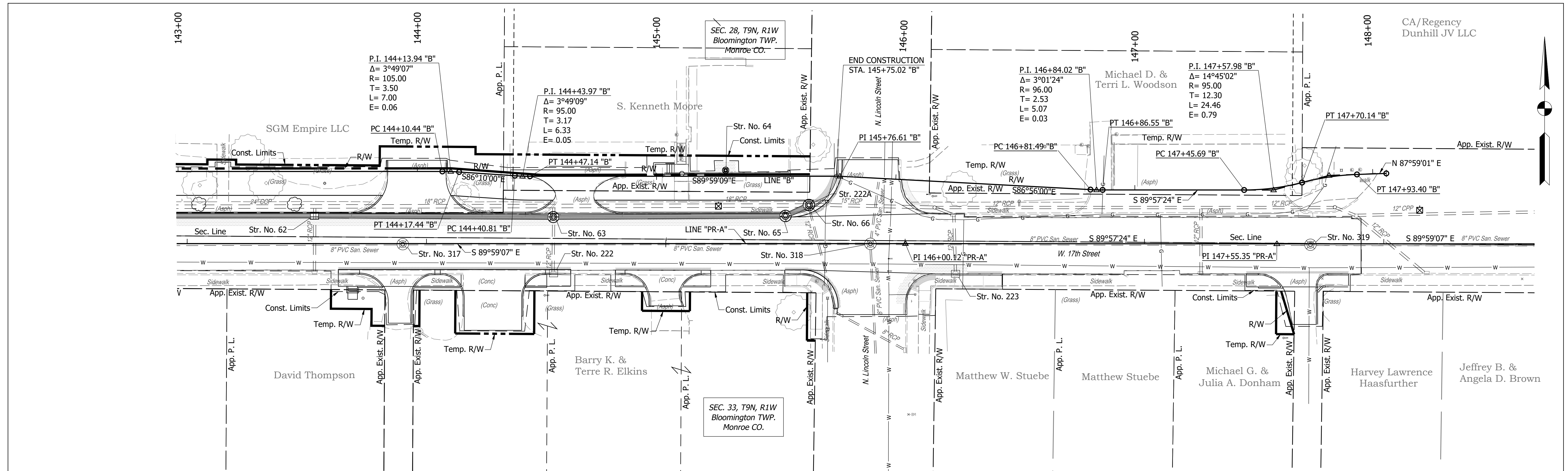


RECOMMENDED FOR APPROVAL: *Nicholas A. Will*
 DESIGN ENGINEER DATE: 12/27/2021
 DESIGNED: JAF DRAWN: DAG
 CHECKED: NAW CHECKED: JAF

17th STREET MULTI-USE PATH CONSTRUCTION PLANS
 CITY OF BLOOMINGTON, INDIANA
PLAN & PROFILE LINE "B" STA. 138+74 TO 143+00

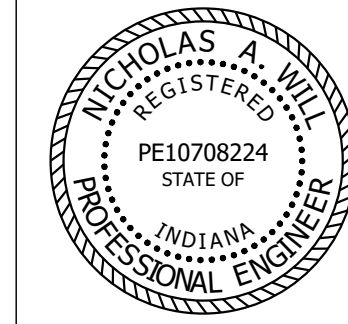
HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
1"=10'	N/A
SURVEY BOOK	SHEETS
CONTRACT	18 of 56
	PROJECT

Date: Mar 11, 2022, 3:57pm User Name: T Lyons File: S:_2019\119-0055\Road_East Phase\CAD\Prop\18P Line B.dwg



Date: Mar 11, 2022, 3:58pm User Name: TLyons File: S:_2019\119-0035\Road_East Phase\CAD\Prop P&P Line B.dwg

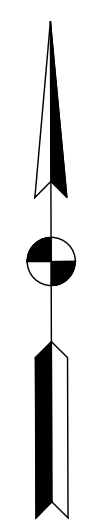
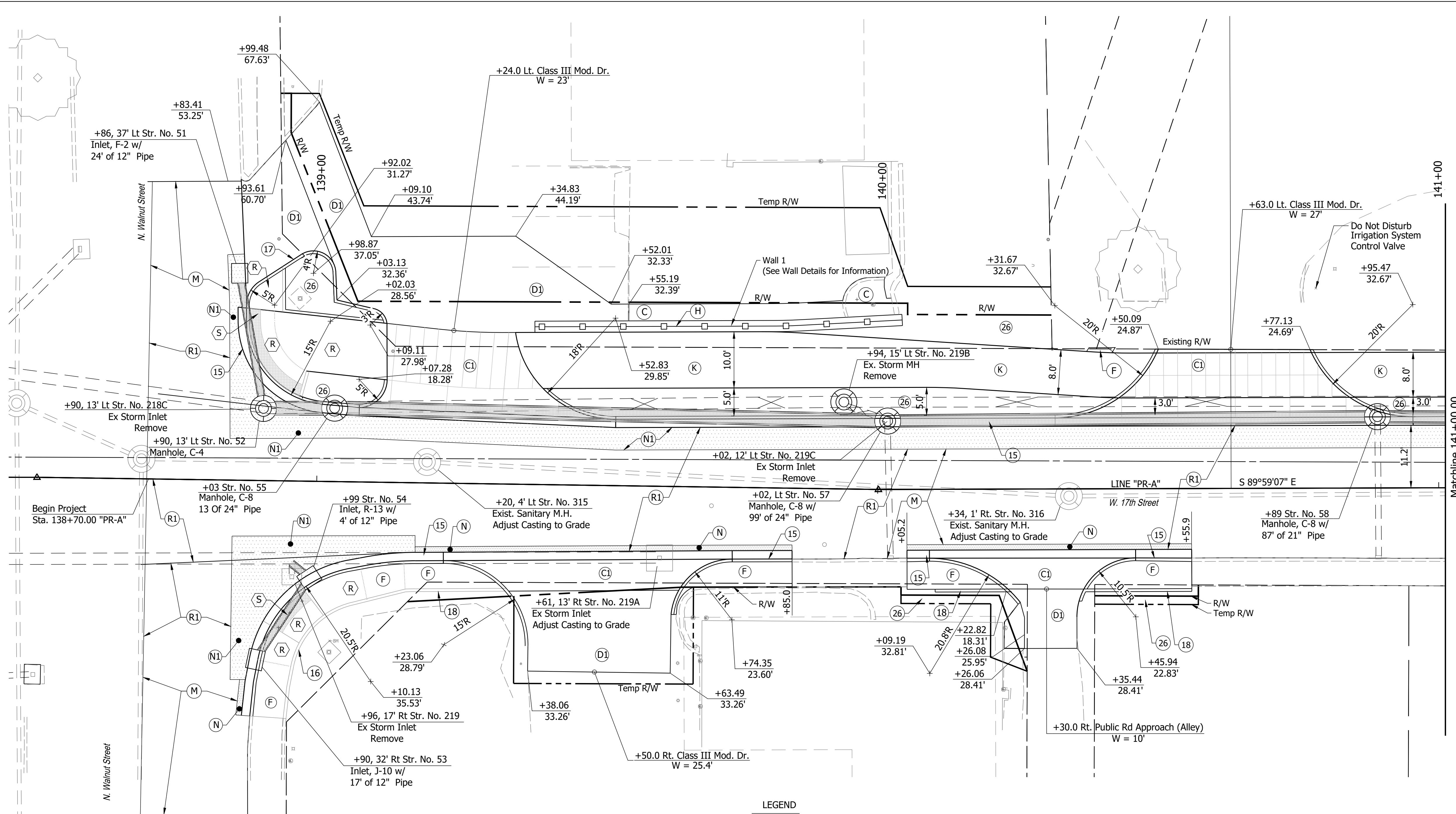
Notes:
 All Stationing off Line "B" Unless Otherwise Noted.
 For R/W Information, See Right-Of-Way Details
 For All Driveway Types & Information, See Construction Detail Sheets.
 For Structure Notes & Additional Structure Information, See Construction Detail Sheet.



RECOMMENDED FOR APPROVAL: *Nicholas A. Will*
 DESIGN ENGINEER DATE: 12/27/2021
 DESIGNED: JAF DRAWN: DAG
 CHECKED: NAW CHECKED: JAF

17th STREET MULTI-USE PATH CONSTRUCTION PLANS
 CITY OF BLOOMINGTON, INDIANA
PLAN & PROFILE LINE "B"
STA. 143+00 TO 148+00

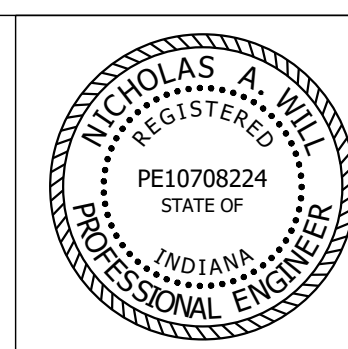
HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
1"=10'	N/A
SURVEY BOOK	SHEETS
CONTRACT	19 of 56
	PROJECT



LEGEND

- (C) PCCP For Approaches, 6" Mod. on Dense Graded Subbase, on Subgrade Treatment Type II
- (CI) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
- (DI) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB on
- (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
- (H) Bicycle Railing, 54"
- (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
- (M) Milling, Asphalt, 1.5"
- (N) PCC Base Patching, 7" on 3" Compacted Aggregate, No. 53 Subgrade Treatment Type IV
- (NI) HMA For Patching, Type B 275#/SYS HMA Type B, Intermediate on 330#/SYS HMA Type B, Base on 3" Aggregated No. 53 Subgrade Treatment Type IV
- (R1) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
- (15) Curb & Gutter, Concrete, Modified
- (16) Curb, Integral Concrete, Mod.
- (17) Curb, Concrete
- (18) Curb, Integral Concrete
- (26) Sodding, Nursery
- (R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
- (S) Detectable Warning Surface

Notes:
All Stationing off Line "PR-A" Unless Otherwise Noted.



RECOMMENDED FOR APPROVAL: *Nicholas A. Will*
DESIGN ENGINEER 12/27/2021 DATE

DESIGNED: JAF DRAWN: RTL
CHECKED: NAW CHECKED: JAF

17th STREET MULTI-USE PATH CONSTRUCTION PLANS
CITY OF BLOOMINGTON, INDIANA

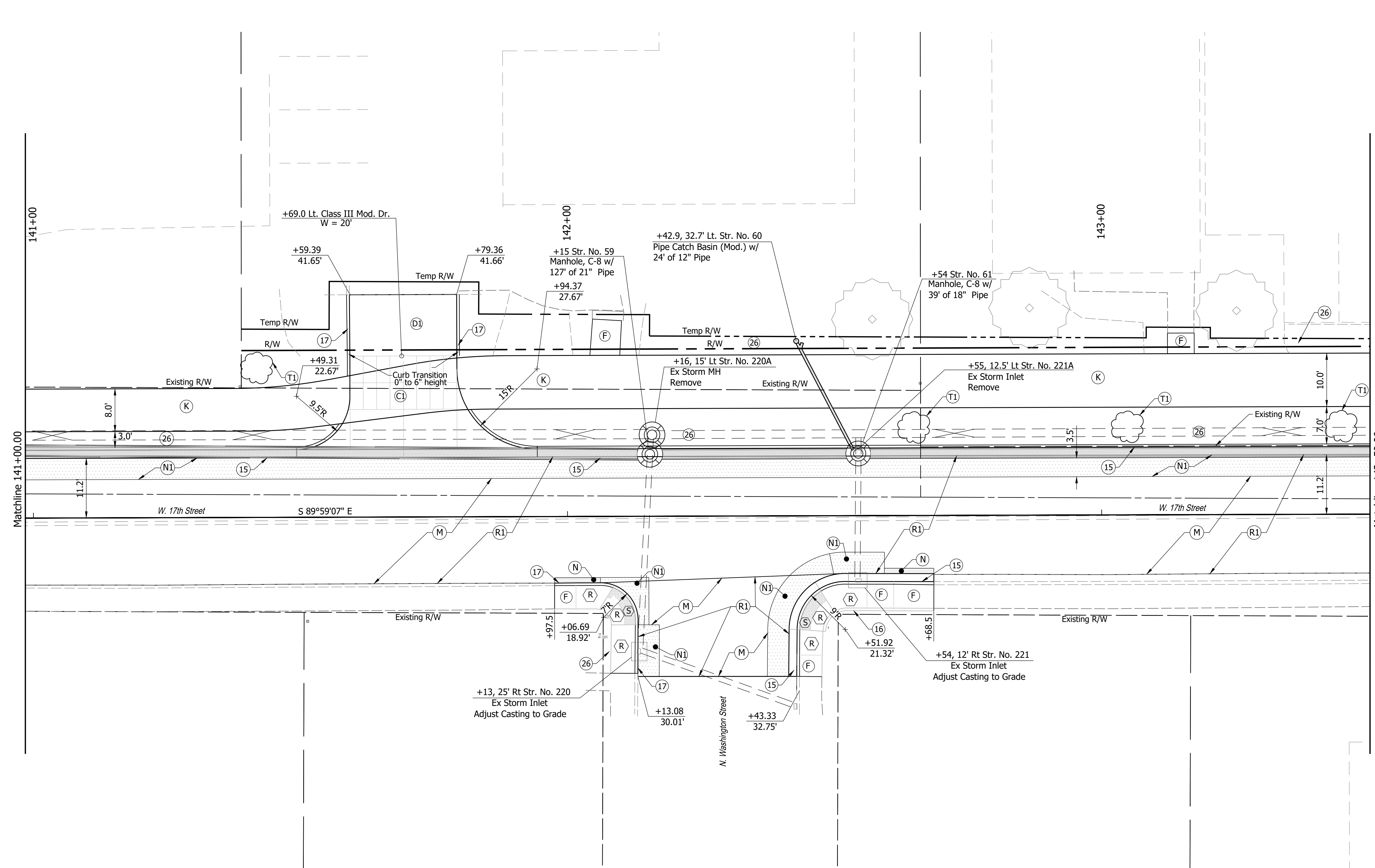
CONSTRUCTION DETAILS LINE "PR-A" STA. 138+50 TO 141+00

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	N/A
VERTICAL SCALE	DESIGNATION
---	N/A
SURVEY BOOK	SHEETS
	20 of 56
CONTRACT	PROJECT

Date: Mar 11, 2022, 4:00pm User Name: T Lyons File: S:_2019\119-0055\Road_East Phase\CAD\Misc\DWG\Const-Details_128+50 to 143+50.dwg

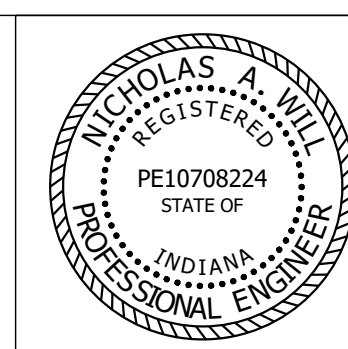
Date: Mar 11, 2022 4:07pm User Name: T Lyons
 File: S:_2019\119-0055\Road_East Phase CAD\MiscDWG\Const-Detail_128+50 to 143+50.dwg

Notes:
 All Stationing off Line "PR-A" Unless Otherwise Noted.



- LEGEND**
- (CI) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
 - (D1) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB on
 - (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
 - (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
 - (M) Milling, Asphalt, 1.5"
 - (N) PCC Base Patching, 7" on 3" Compacted Aggregate, No. 53 Subgrade Treatment Type IV
 - (N1) HMA For Patching, Type B 275#/SY HMA Type B, Intermediate on 330#/SY HMA Type B, Base on 3" Aggregated No. 53 Subgrade Treatment Type IV
 - (R1) 165#/SY QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
 - (T1) Plant, Deciduous Tree, Single Stem, 2" to 2.5" (Tree Species See this Sheet)
 - (15) Curb & Gutter, Concrete, Modified
 - (16) Curb, Integral Concrete, Modified
 - (17) Curb, Concrete
 - (26) Sodding, Nursery
 - (R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
 - (S) Detectable Warning Surface

- Native trees:**
- (T1) Service Berry
 - American Basswood
 - Redbud



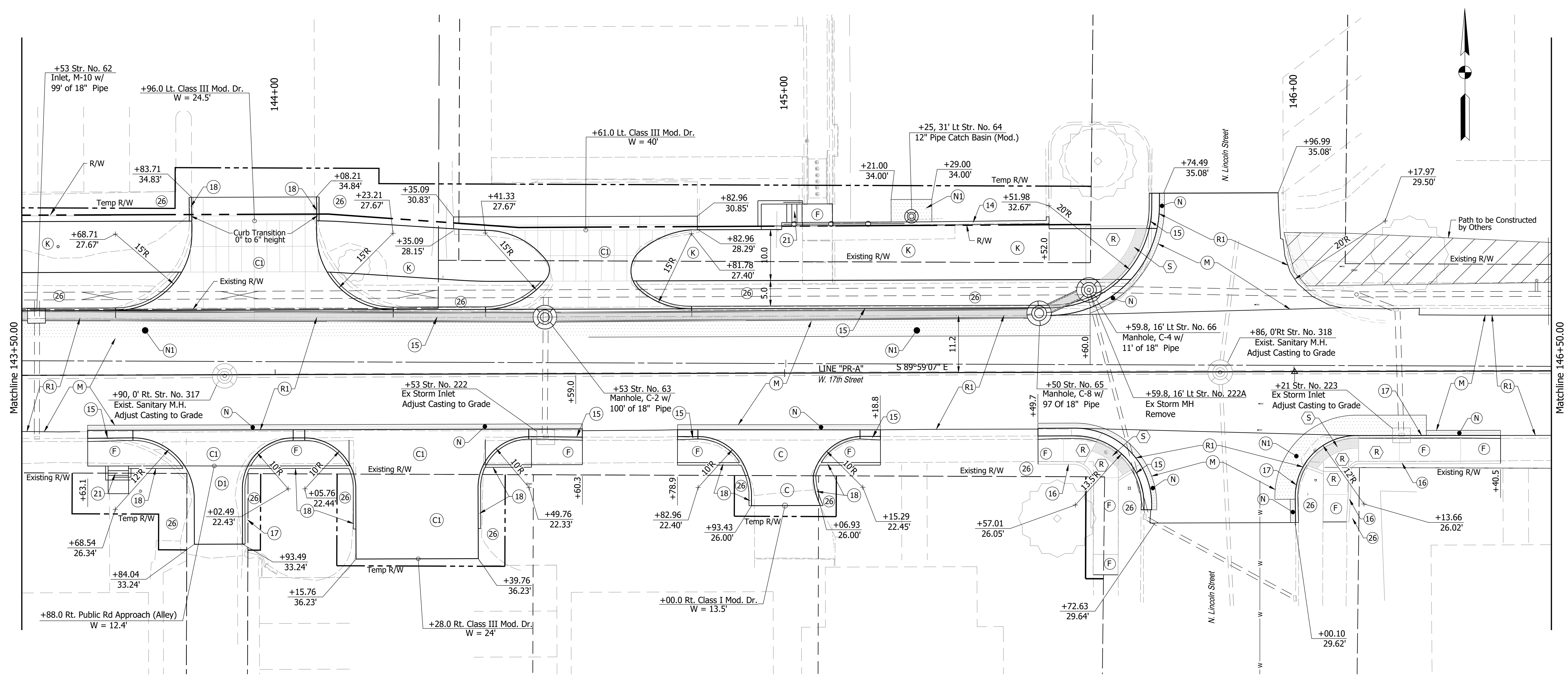
RECOMMENDED FOR APPROVAL: *Nicholas A. Will* DESIGN ENGINEER DATE: 12/27/2021

DESIGNED: JAF DRAWN: RTL
 CHECKED: NAW CHECKED: JAF

17th STREET MULTI-USE PATH CONSTRUCTION PLANS
 CITY OF BLOOMINGTON, INDIANA

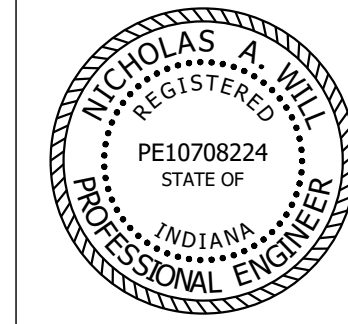
CONSTRUCTION DETAILS LINE "PR-A" STA. 141+00 TO 143+50

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	N/A
VERTICAL SCALE	DESIGNATION
---	N/A
SURVEY BOOK	SHEETS
	21 of 56
CONTRACT	PROJECT



- LEGEND**
- (C) PCCP For Approaches, 6" Mod. on Dense Graded Subbase, on Subgrade Treatment Type II
 - (CI) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
 - (DI) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB on
 - (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
 - (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
 - (M) Milling, Asphalt, 1.5"
 - (N) PCC Base Patching, 7" on 3" Compacted Aggregate, No. 53 Subgrade Treatment Type IV
 - (NI) HMA For Patching, Type B 275#/SYS HMA Type B, Intermediate on 330#/SYS HMA Type B, Base on 3" Aggregated No. 53 Subgrade Treatment Type IV
 - (RI) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
 - (14) Curb, Concrete, Modified
 - (15) Curb & Gutter, Concrete, Modified
 - (16) Curb, Integral Concrete, Modified
 - (17) Curb, Concrete
 - (18) Curb, Integral Concrete
 - (21) Steps
 - (26) Sodding, Nursery
 - (R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
 - (S) Detectable Warning Surface

Notes:
All Stationing off Line "PR-A" Unless Otherwise Noted.



RECOMMENDED FOR APPROVAL: *Nicholas A. Will*, DESIGN ENGINEER, 12/27/2021, DATE

DESIGNED: JAF, DRAWN: RTL

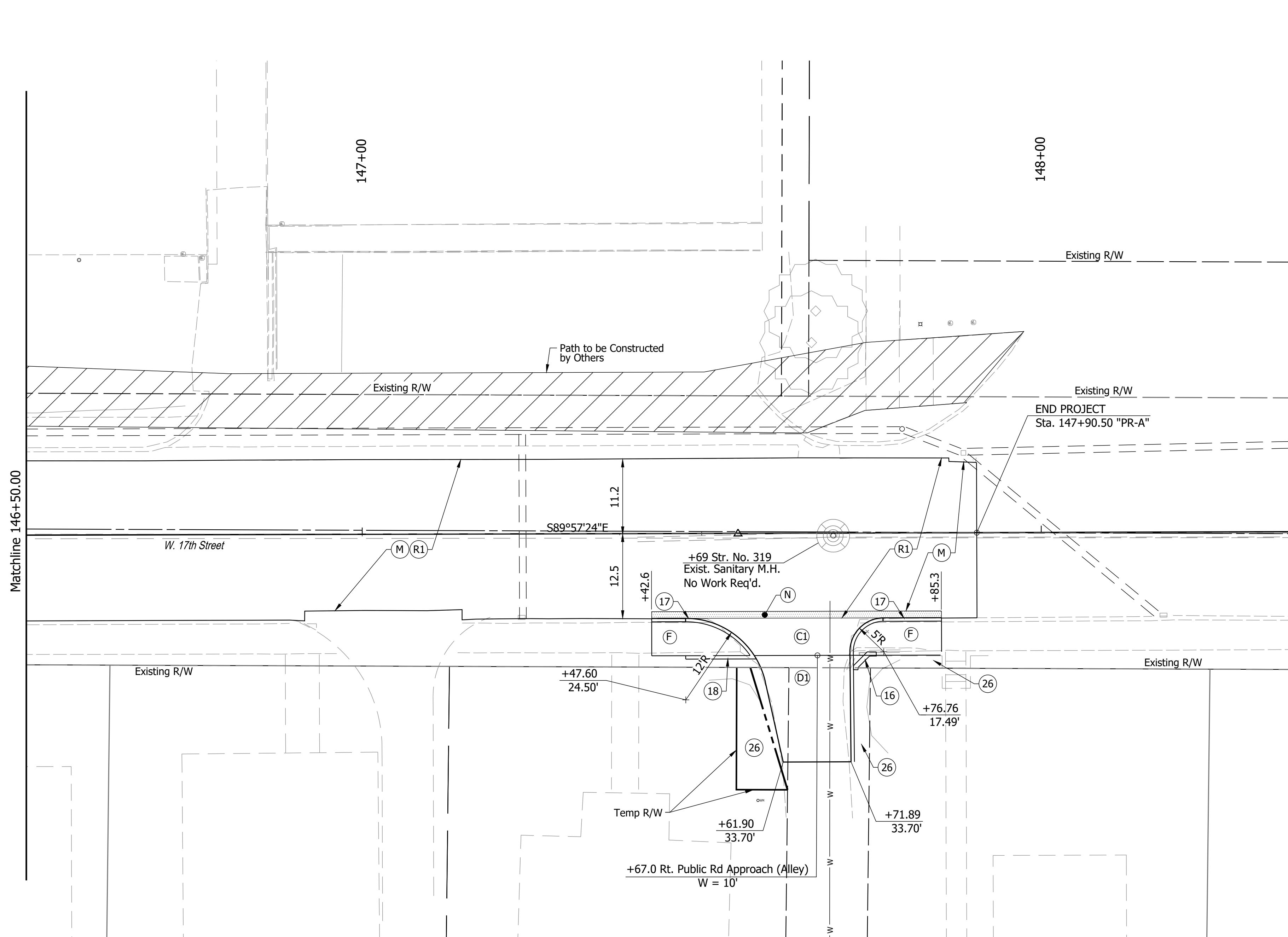
CHECKED: NAW, CHECKED: JAF

17th STREET MULTI-USE PATH CONSTRUCTION PLANS
CITY OF BLOOMINGTON, INDIANA

CONSTRUCTION DETAILS LINE "PR-A" STA. 143+50 TO 146+50

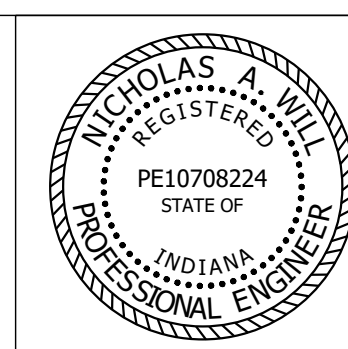
HORIZONTAL SCALE	BRIDGE FILE
1"=10'	N/A
VERTICAL SCALE	DESIGNATION
---	N/A
SURVEY BOOK	SHEETS
	22 of 56
CONTRACT	PROJECT

Date: Mar 11, 2022, 4:04pm User Name: T Lyons File: S:_2019\119-0055\Road_East Phase\CAD\Misc\DWG\Const-Detail\143+50 to 146+50.dwg



- LEGEND**
- (C1) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
 - (D1) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB on
 - (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
 - (M) Milling, Asphalt, 1.5"
 - (N) PCC Base Patching, 7" on 3" Compacted Aggregate, No. 53 Subgrade Treatment Type IV
 - (R1) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
 - (16) Curb, Integral Concrete, Modified
 - (17) Curb, Concrete
 - (18) Curb, Integral Concrete
 - (26) Sodding, Nursery

Notes:
All Stationing off Line "PR-A" Unless Otherwise Noted.



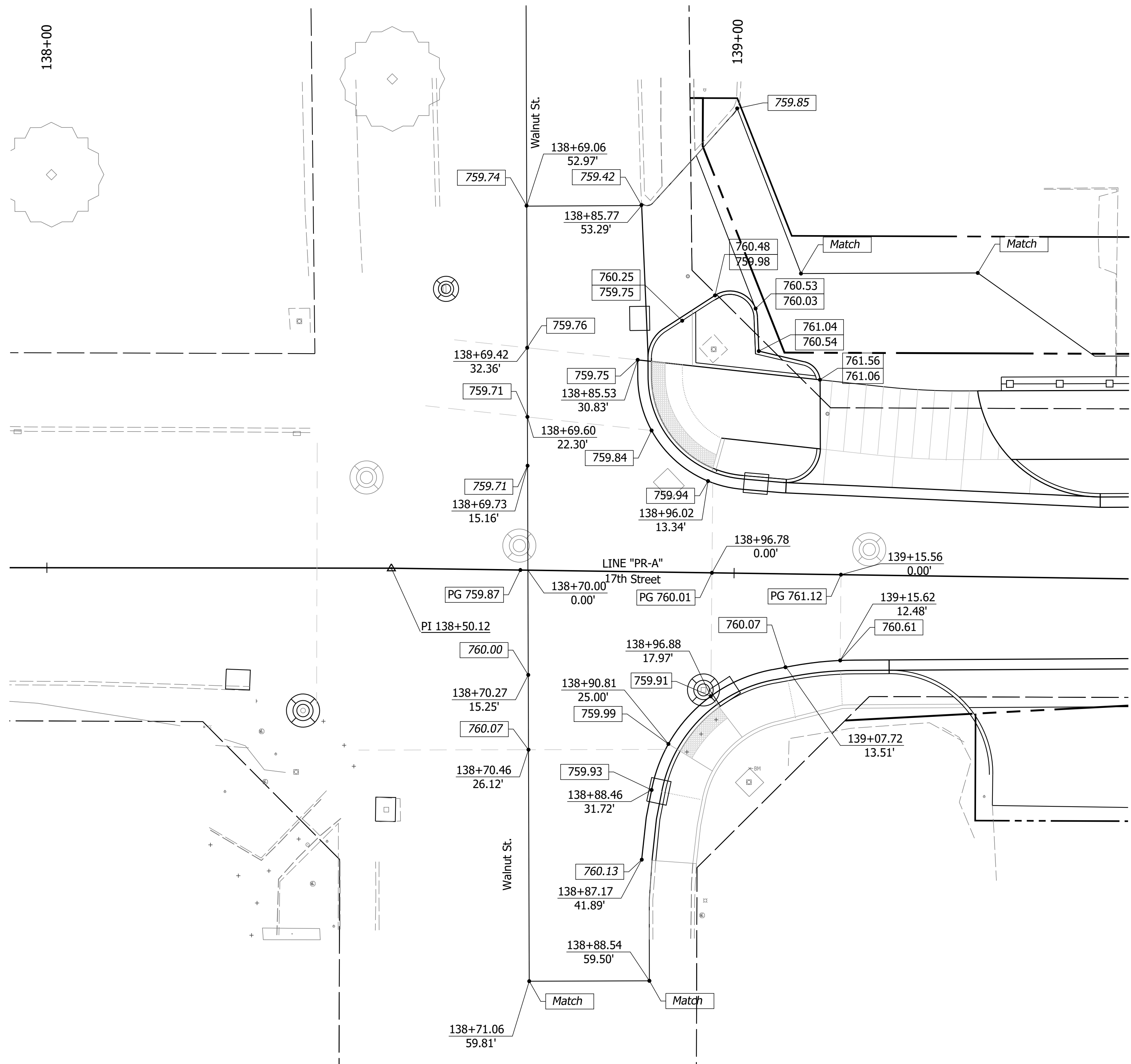
RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	DESIGN ENGINEER	12/27/2021	DATE
DESIGNED:	JAF	DRAWN:	RTL	
CHECKED:	NAW	CHECKED:	JAF	

**17th STREET MULTI-USE PATH
CONSTRUCTION PLANS**
CITY OF BLOOMINGTON, INDIANA

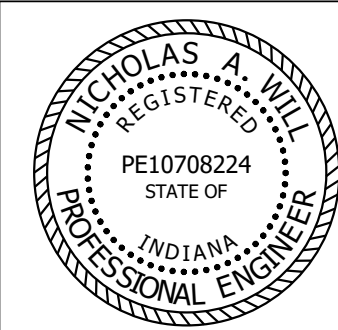
**CONSTRUCTION DETAILS LINE "PR-A"
STA. 146+50 TO 148+50**

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	N/A
VERTICAL SCALE	DESIGNATION
---	N/A
SURVEY BOOK	SHEETS
	23 of 56
CONTRACT	PROJECT

Date: Mar 11, 2022 4:04pm User Name: T Lyons File: S:_2019\119-0055\Road_East Phase\CAD\Misc\DWG\Const-Detail\143+50 to 148+50.dwg



Notes:
 All Stationing off Line "PR-A" Unless Otherwise Noted.

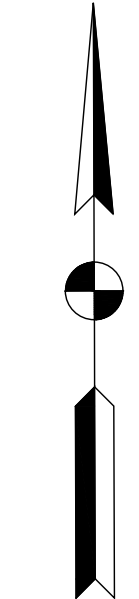
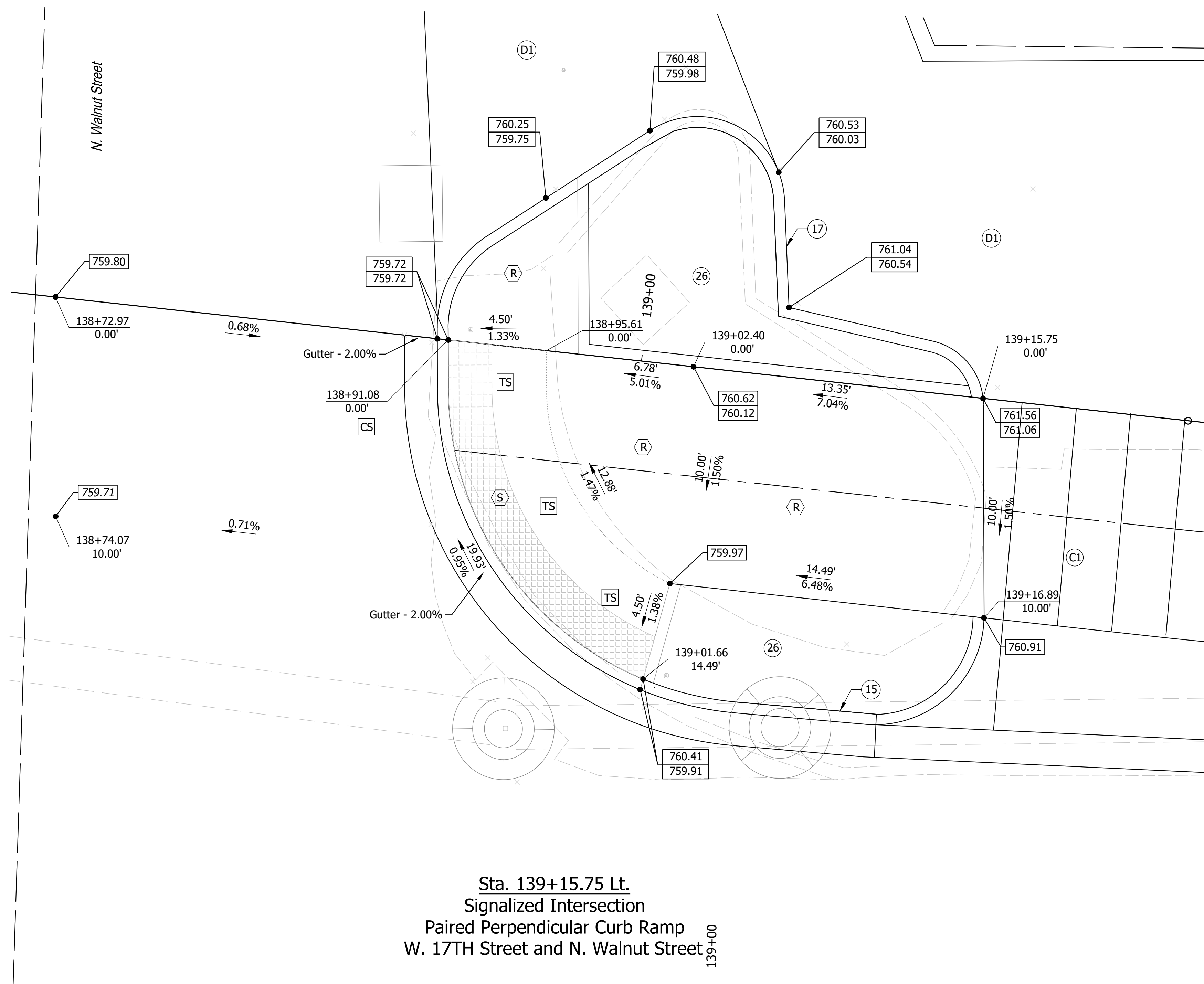


RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	12/27/2021	DATE
DESIGNED:	JAF	DRAWN:	DAG
CHECKED:	NAW	CHECKED:	JAF

17th STREET MULTI-USE PATH
 CONSTRUCTION PLANS
 CITY OF BLOOMINGTON, INDIANA

SPOT ELEVATION DETAILS
 WALNUT STREET

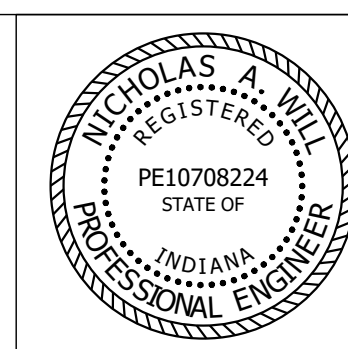
HORIZONTAL SCALE	BRIDGE FILE
1"=10'	N/A
VERTICAL SCALE	DESIGNATION
---	N/A
SURVEY BOOK	SHEETS
	24 of 56
CONTRACT	PROJECT
-	---



- LEGEND**
- (C1) PCCP For Approaches, 9" on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
 - (D1) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB on
 - (15) Curb & Gutter, Concrete, Modified
 - (17) Curb, Concrete
 - (26) Sodding, Nursery
 - (R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
 - (S) Detectable Warning Surface
 - TS Turning Space
 - CS Clear Space
 - FS Flared Side

Date: Mar 11, 2022, 4:08pm User Name: T Lyons File: S:_2019\119-0055\Road_East Phase\CAD\MiscDWG\Ramp_Details.dwg

Notes:
All Stationing off Line "B" Unless Otherwise Noted.



RECOMMENDED FOR APPROVAL: *Nicholas A. Will* DESIGN ENGINEER DATE: 12/27/2021

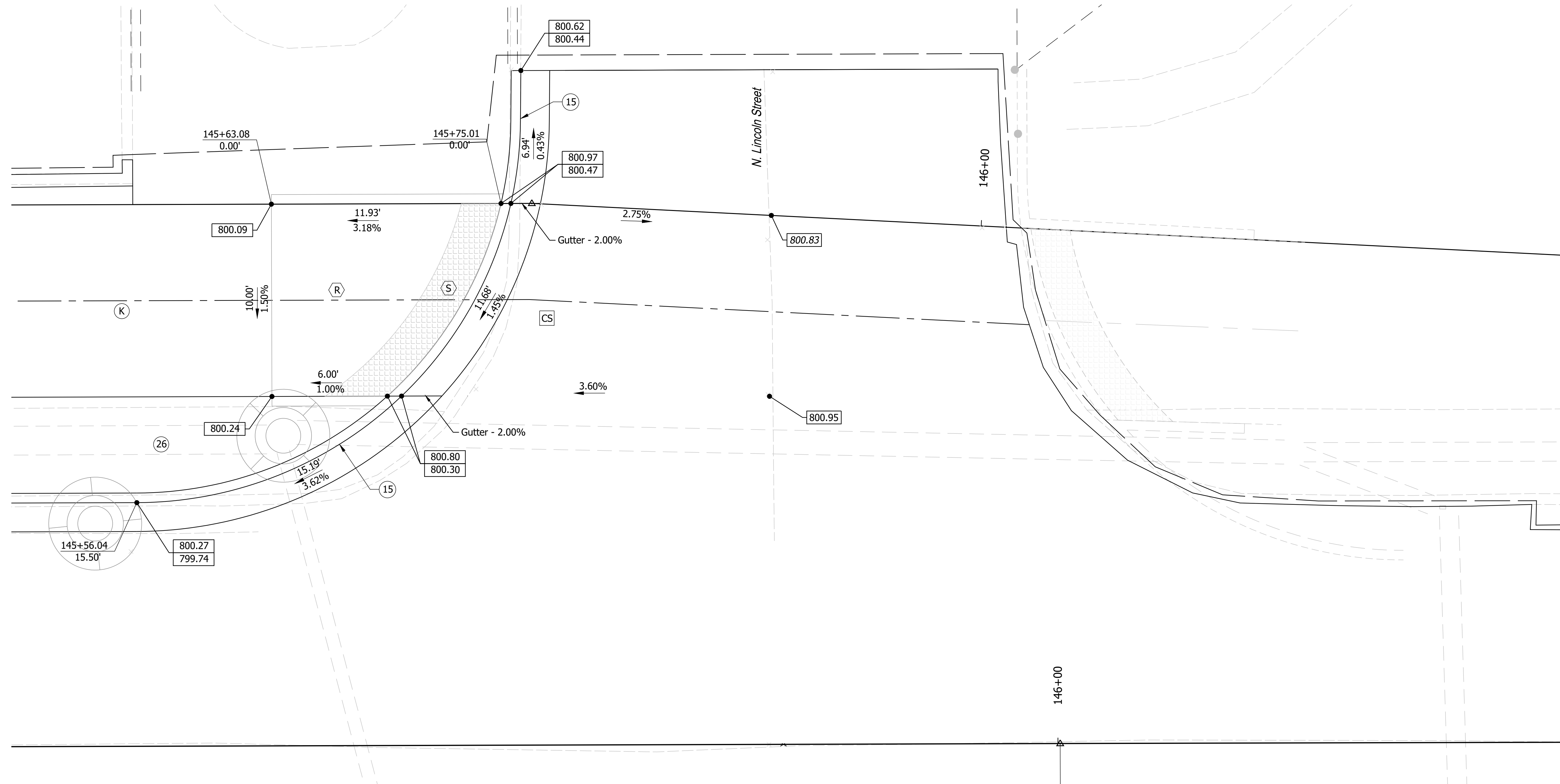
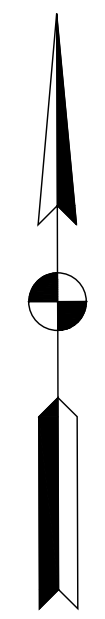
DESIGNED: JAF DRAWN: DAG

CHECKED: NAW CHECKED: JAF

**17th STREET MULTI-USE PATH
CONSTRUCTION PLANS**
CITY OF BLOOMINGTON, INDIANA

**CURB RAMP DETAILS
N. WALNUT STREET**

HORIZONTAL SCALE	BRIDGE FILE
1"=3'	N/A
VERTICAL SCALE	DESIGNATION
---	N/A
SURVEY BOOK	SHEETS
	25 of 56
CONTRACT	PROJECT
-	---



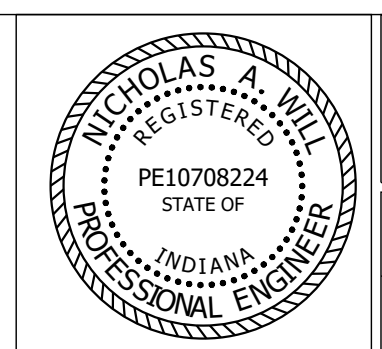
Sta. 145+62.55 Lt.
One-Way Directional Perpendicular Curb Ramp w/ Buffer
W. 17TH Street and N. Lincoln Street

LEGEND

(K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V	(R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
(15) Curb & Gutter, Concrete, Modified	(S) Detectable Warning Surface
(26) Sodding, Nursery	(TS) Turning Space
	(CS) Clear Space Pedestrian Clear Space

Date: Mar 11, 2022, 4:09pm User Name: T Lyons File: S:_2019\119-0055\Road_East Phase\CAD\Misc\DWG\Ramp_Details.dwg

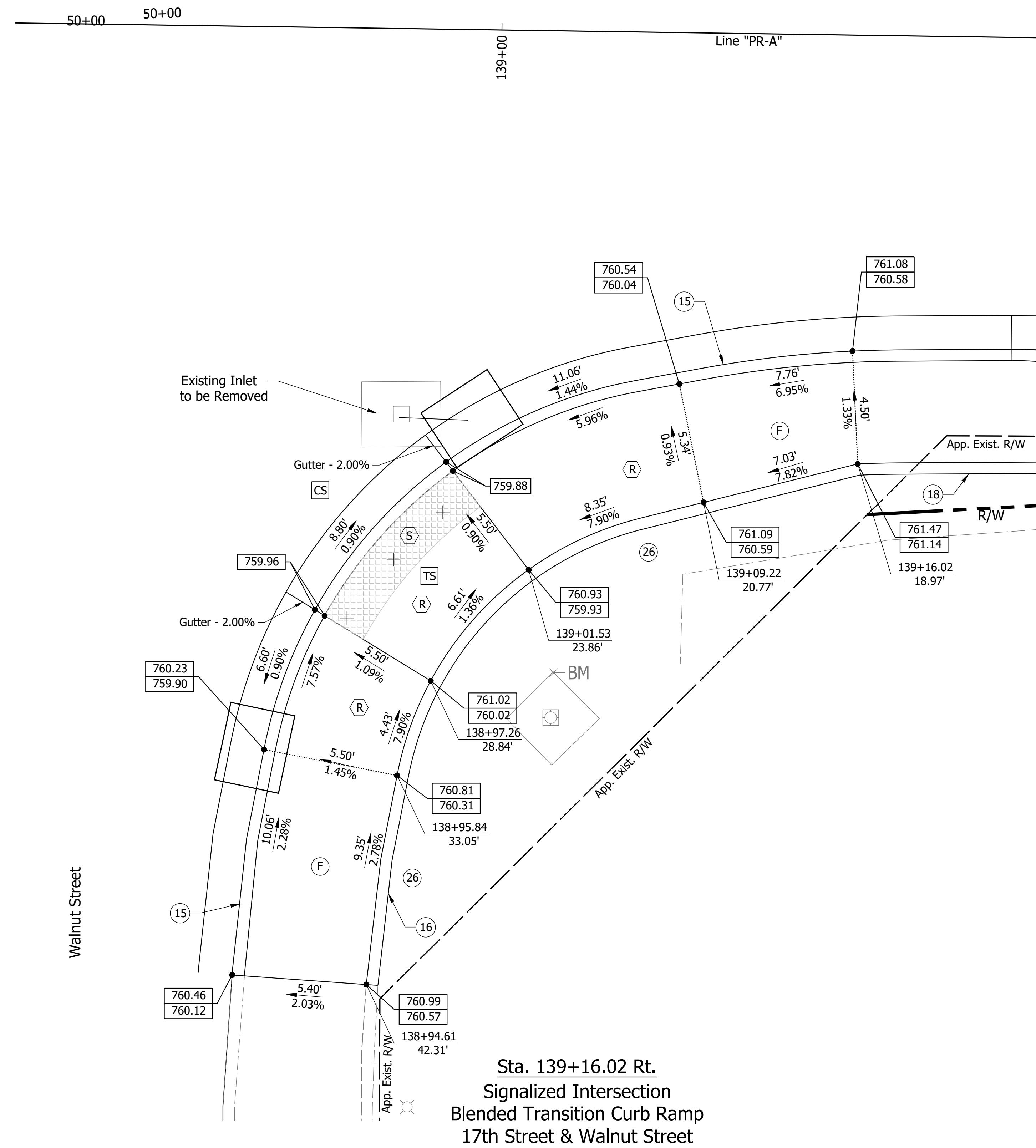
Notes:
All Stationing off Line "PR-A" Unless Otherwise Noted.



RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	12/27/2021
	DESIGN ENGINEER	DATE
DESIGNED: JAF	DRAWN: DAG	
CHECKED: NAW	CHECKED: JAF	

17th STREET MULTI-USE PATH CONSTRUCTION PLANS CITY OF BLOOMINGTON, INDIANA
CURB RAMP DETAILS N. LINCOLN STREET

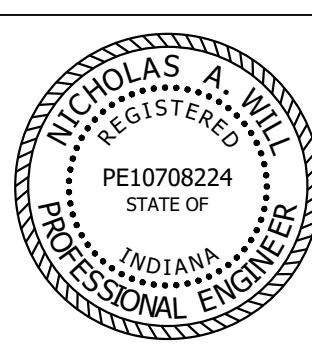
HORIZONTAL SCALE	BRIDGE FILE
1"=3'	N/A
VERTICAL SCALE	DESIGNATION
---	N/A
SURVEY BOOK	SHEETS
	26 of 56
CONTRACT	PROJECT



- LEGEND**
- (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
 - (15) Curb & Gutter, Concrete, Modified
 - (16) Curb, Integral Concrete, Mod.
 - (18) Curb, Integral Concrete
 - (26) Sodding, Nursery
 - (R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
 - (S) Detectable Warning Surface
 - (TS) Turning Space
 - (CS) Clear Space

Sta. 139+16.02 Rt.
Signalized Intersection
Blended Transition Curb Ramp
17th Street & Walnut Street

Notes:
All Stationing off Line "PR-A" Unless Otherwise Noted.



RECOMMENDED FOR APPROVAL: *Nicholas A. Will*
DESIGN ENGINEER DATE: 12/27/2021

DESIGNED: JAF DRAWN: DAG
CHECKED: NAW CHECKED: JAF

17th STREET MULTI-USE PATH
CONSTRUCTION PLANS
CITY OF BLOOMINGTON, INDIANA

**CURB RAMP DETAILS
WALNUT STREET**

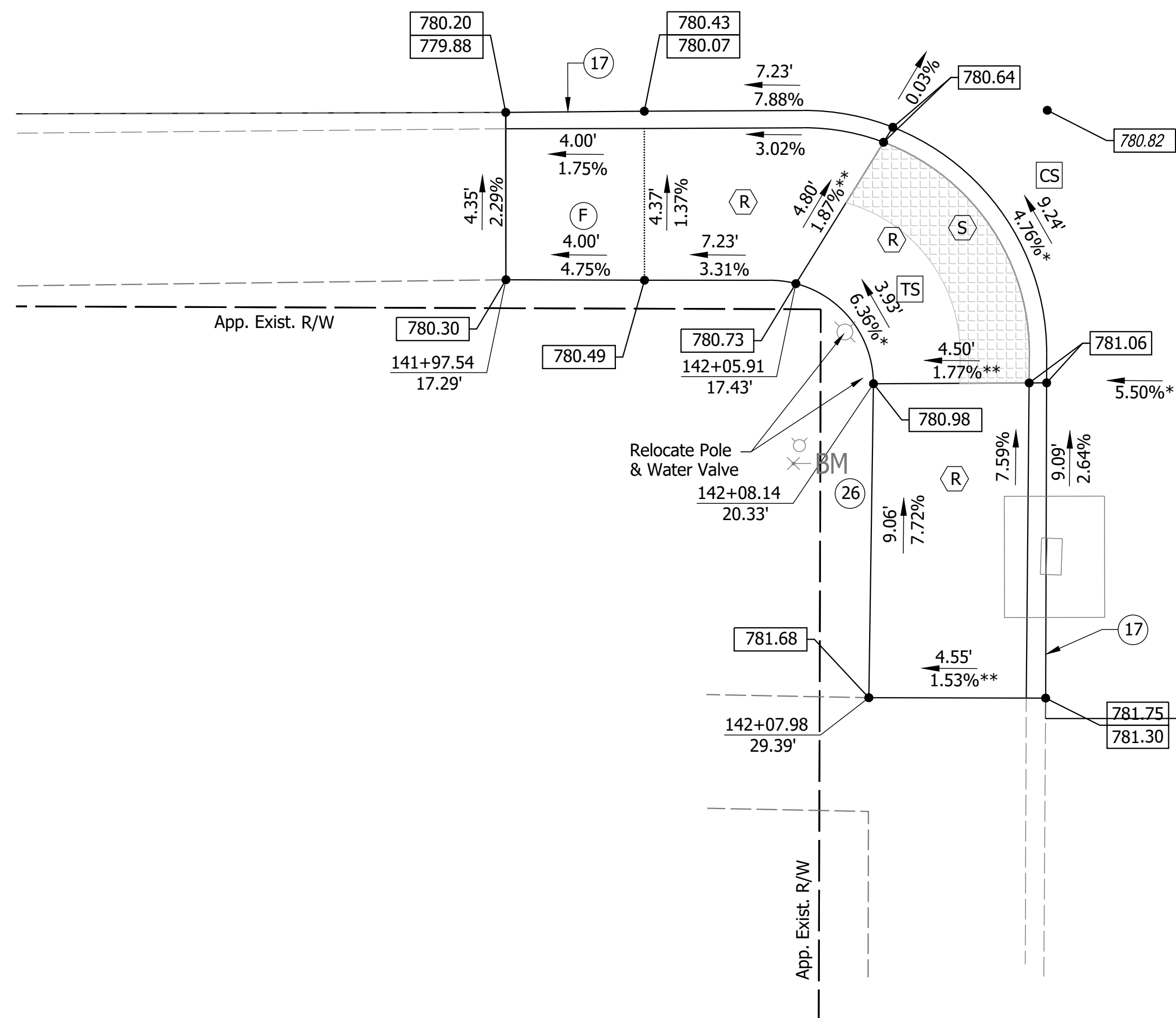
HORIZONTAL SCALE	BRIDGE FILE
1"=3'	N/A
VERTICAL SCALE	DESIGNATION
---	N/A
SURVEY BOOK	SHEETS
	27 of 56
CONTRACT	PROJECT
-	---

Date: Mar 11, 2022, 4:11pm User Name: T Lyons File: S:_2019\19-0055\Road_East Phase\CAD\Misc\DWG\Ramp_Details_South.dwg

Line "PR-A"

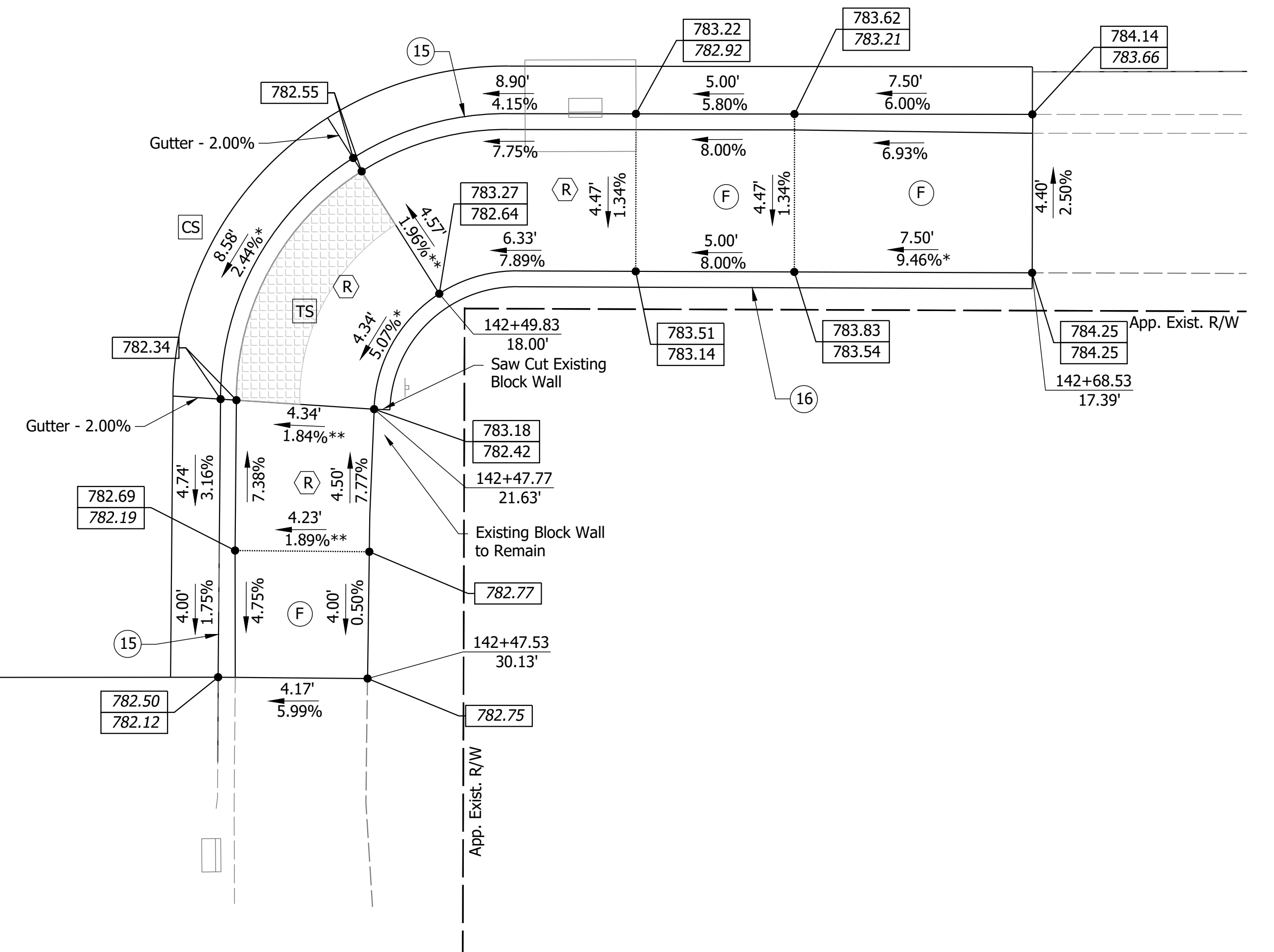
Deficient Slopes of Turn Space & Counter Slope (5.50%)
 *Approved by ADA TAC on 10/20/2021
 Slopes greater than INDOT Preferred Values
 **Approved by ADA TAC on 10/20/2021

Deficient Slopes of Turn Space & Running Slope to tie into Exist. Sidewalk
 *Approved by ADA TAC on 10/20/2021
 Slopes greater than INDOT Preferred Values
 **Approved by ADA TAC on 10/20/2021



Sta. 141+97.54 Rt.
 One-Way Directional Perpendicular Curb Ramp
 W. 17TH Street and Washington Street

Washington Street

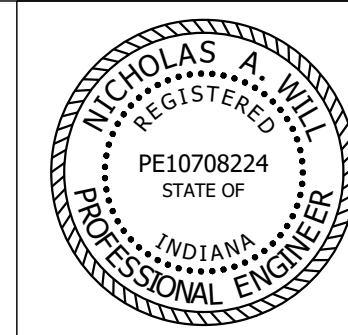


Sta. 142+68.53 Rt.
 One-Way Directional Perpendicular Curb Ramp
 W. 17TH Street and Washington Street

LEGEND

- (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
- (15) Curb & Gutter, Concrete, Modified
- (16) Curb, Integral Concrete, Mod.
- (17) Curb, Concrete
- (26) Sodding, Nursery
- (R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
- (S) Detectable Warning Surface
- (TS) Turning Space
- (CS) Clear Space

Notes:
 All Stationing off Line "PR-A" Unless Otherwise Noted.

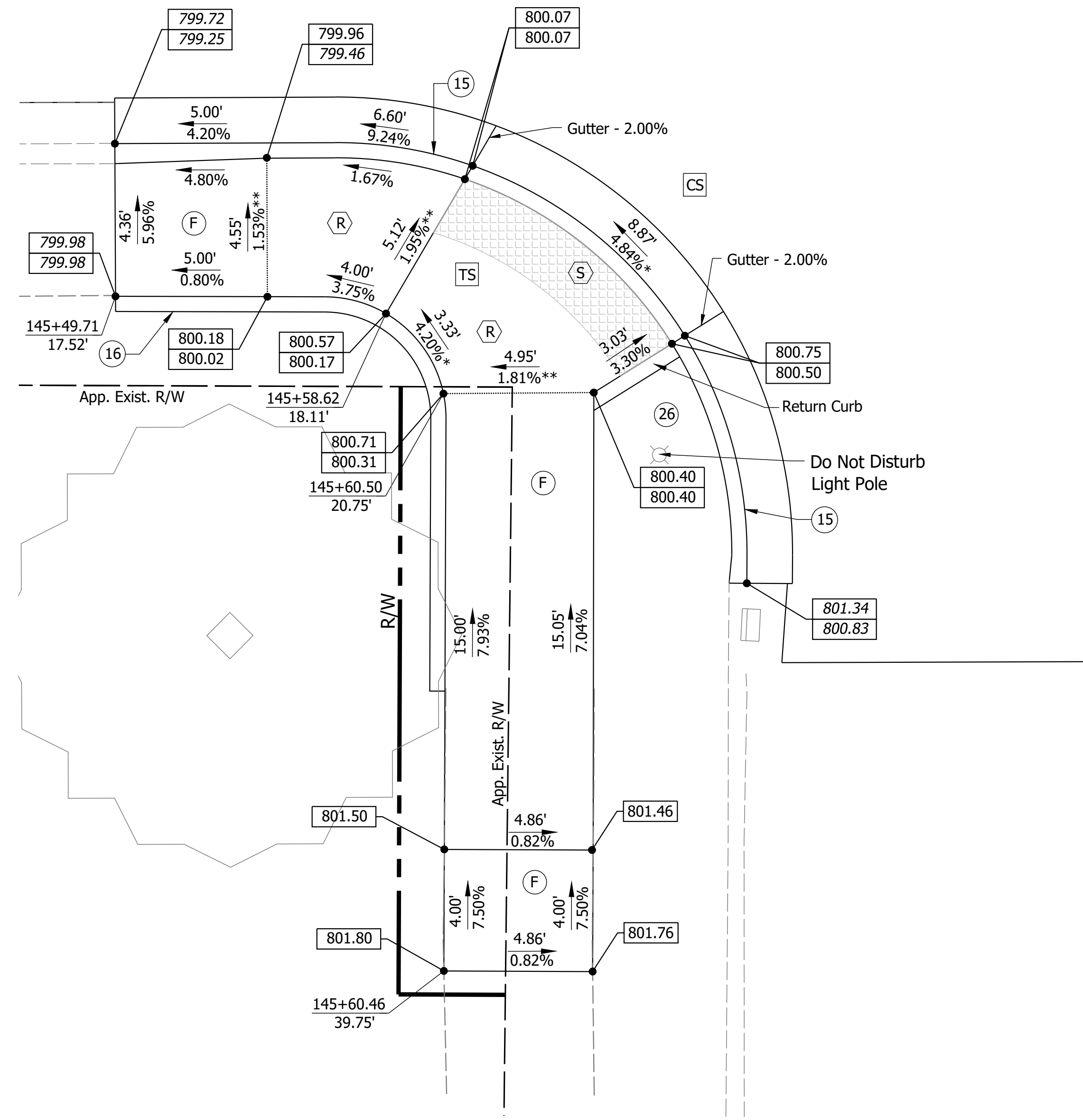


RECOMMENDED FOR APPROVAL: *Nicholas A. Will*, DESIGN ENGINEER, 12/27/2021
 DESIGNED: JAF, DRAWN: DAG
 CHECKED: NAW, CHECKED: JAF

17th STREET MULTI-USE PATH
 CONSTRUCTION PLANS
 CITY OF BLOOMINGTON, INDIANA
 CURB RAMP DETAILS
 WASHINGTON STREET

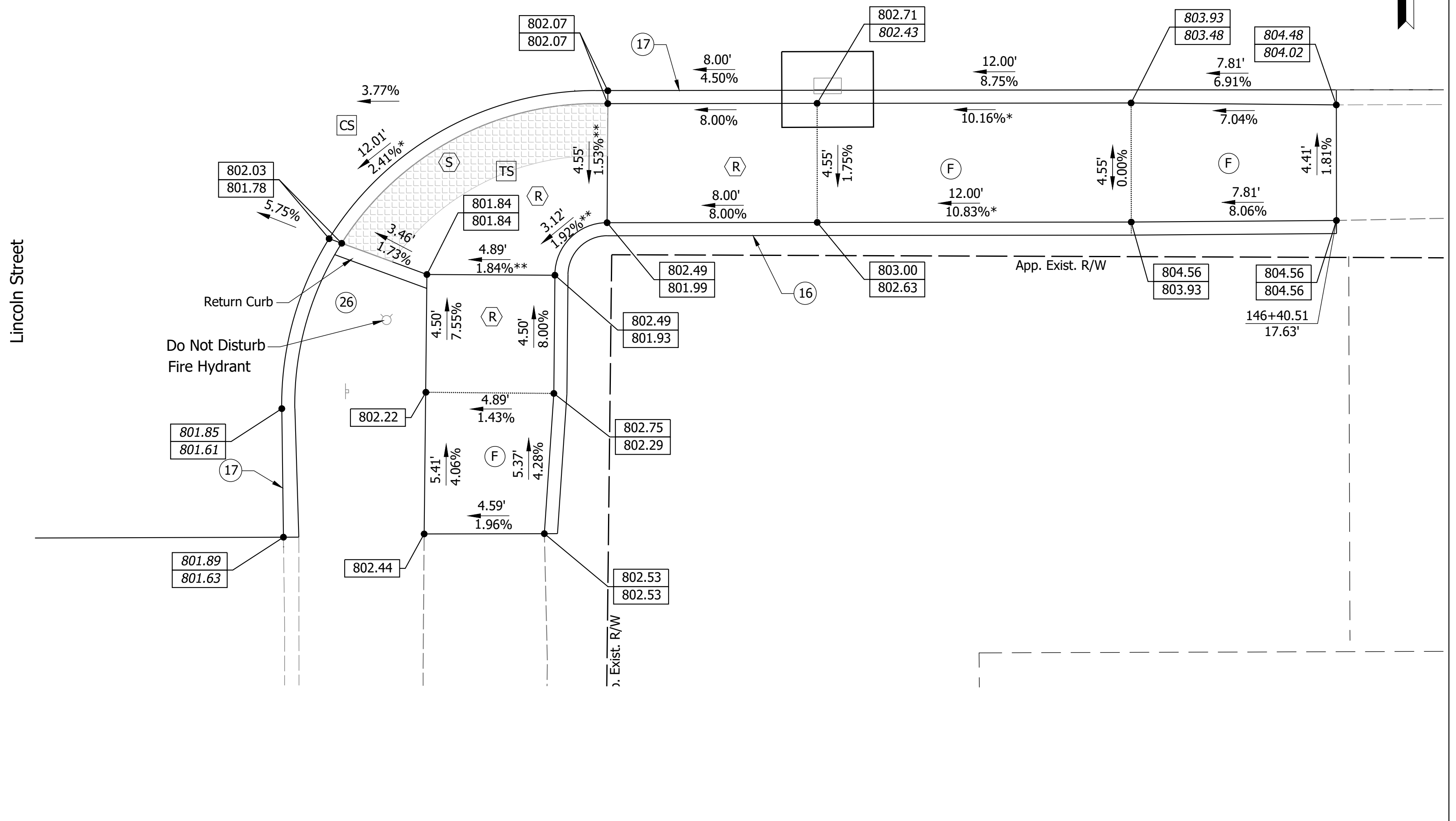
HORIZONTAL SCALE	BRIDGE FILE
1"=3'	N/A
VERTICAL SCALE	DESIGNATION
---	N/A
SURVEY BOOK	SHEETS
	28 of 56
CONTRACT	PROJECT

Deficient Slopes of Turn Space &
 *Approved by ADA TAC on 10/20/2021
 Slopes greater than INDOT Preferred Values
 **Approved by ADA TAC on 10/20/2021



Sta. 145+49.71 Rt.
 One-Way Directional Perpendicular Curb Ramp
 W. 17TH Street and Lincoln Street

Deficient Running Slope to tie into Exist. Sidewalk
 *Approved by ADA TAC on 10/20/2021
 Slopes greater than INDOT Preferred Values
 **Approved by ADA TAC on 10/20/2021



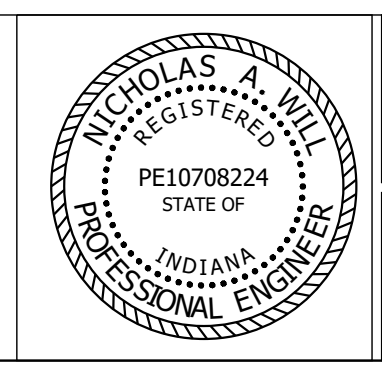
Sta. 146+40.51 Rt.
 One-Way Directional Perpendicular Curb Ramp
 W. 17TH Street and Lincoln Street

LEGEND

(F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53	(R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
(15) Curb & Gutter, Concrete, Modified	(S) Detectable Warning Surface
(16) Curb, Integral Concrete, Mod.	(TS) Turning Space
(17) Curb, Concrete	(CS) Clear Space
(26) Sodding, Nursery	

Date: Mar 11, 2022, 4:12pm User Name: T Lyons File: S:_2019\19-0055\Road_East Phase\CAD\Misc\DWG\Ramp_Details_South.dwg

Notes:
 All Stationing off Line "PR-A" Unless Otherwise Noted.

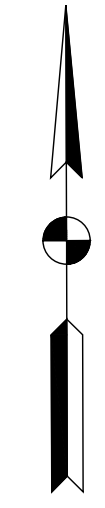
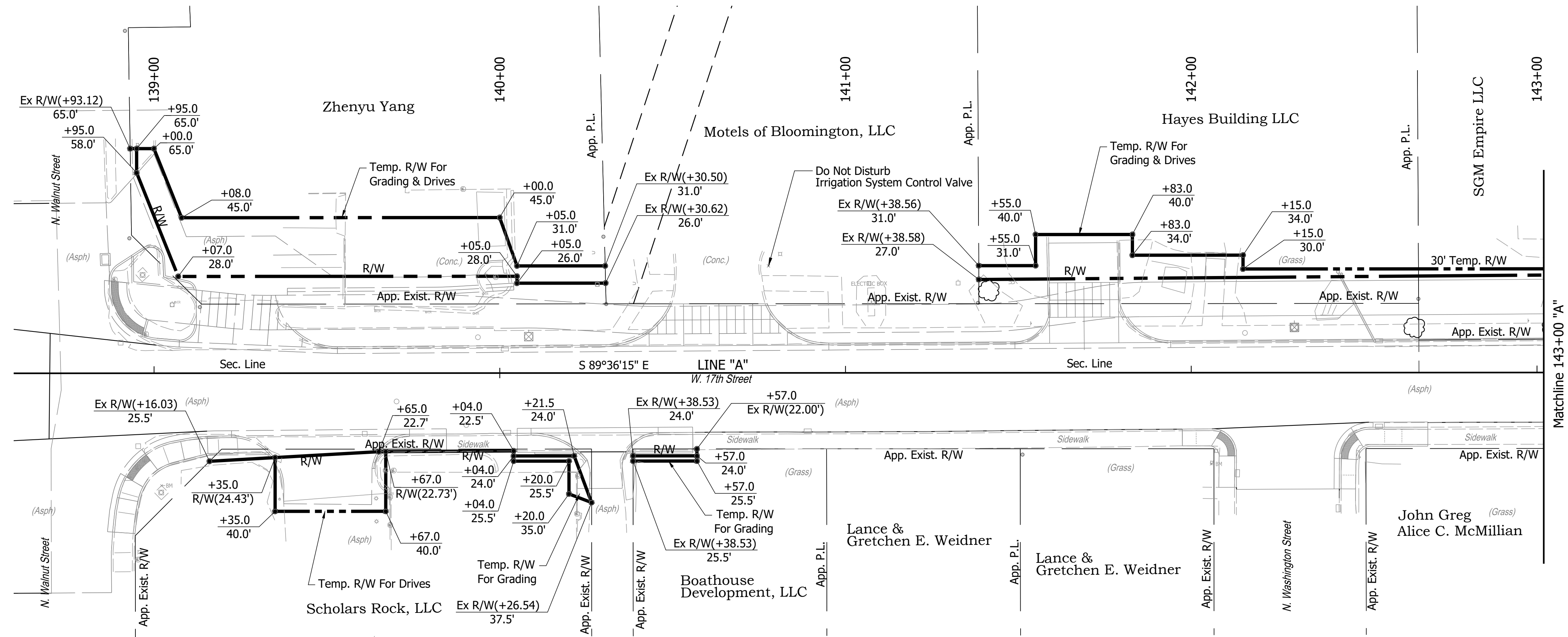


RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	12/27/2021
DESIGNED:	JAF	DRAWN:
CHECKED:	NAW	CHECKED:

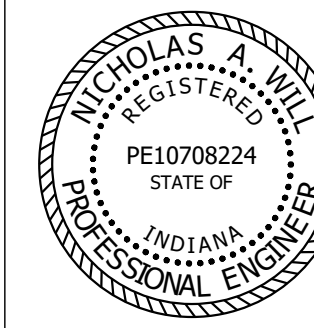
17th STREET MULTI-USE PATH
 CONSTRUCTION PLANS
 CITY OF BLOOMINGTON, INDIANA

**CURB RAMP DETAILS
 LINCOLN STREET**

HORIZONTAL SCALE	BRIDGE FILE
1"=3'	N/A
VERTICAL SCALE	DESIGNATION
---	N/A
SURVEY BOOK	SHEETS
	29 of 56
CONTRACT	PROJECT



Notes:
 ALL R/W ON THIS SHEET TO BE AS SHOWN.
 ALL R/W ON THIS SHEET DESCRIBED FROM LINE "A" EXCEPT AS SHOWN.

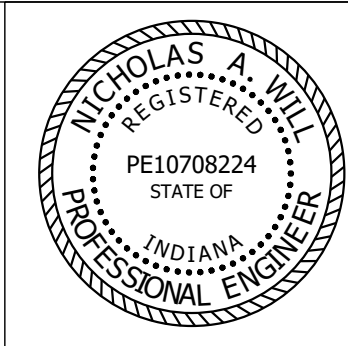
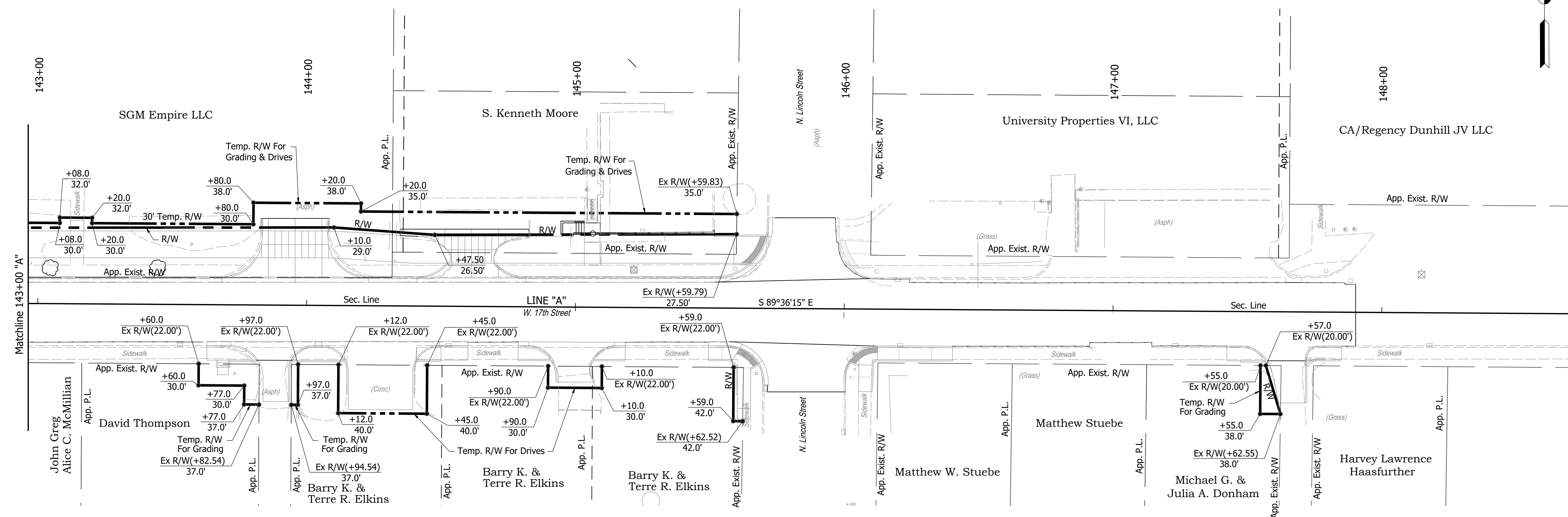
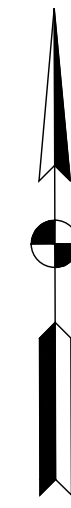


RECOMMENDED FOR APPROVAL: *Nicholas A. Will*
 DESIGN ENGINEER 12/27/2021 DATE
 DESIGNED: JAF DRAWN: DAG
 CHECKED: NAW CHECKED: JAF

17th STREET MULTI-USE PATH
 CONSTRUCTION PLANS
 CITY OF BLOOMINGTON, INDIANA
 RIGHT-OF-WAY DETAILS LINE "A"
 STA. 138+50 TO 143+00

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEETS
	30 of 56
CONTRACT	PROJECT

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RECOMMENDED FOR APPROVAL: *Nicholas A. Will* 12/27/2021
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 DESIGNED: JAF DRAWN: DAG
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17th STREET MULTI-USE PATH
 CONSTRUCTION PLANS
 CITY OF BLOOMINGTON, INDIANA
 RIGHT-OF-WAY DETAILS LINE "A"
 STA. 143+00 TO 148+00

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEETS
	31 of 56
CONTRACT	PROJECT

Date: Mar 11, 2022, 4:16pm User Name: Tlyons
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Construction Plan Elements (Section A)

- A-1** Index showing locations of required Plan Elements.
Sheets 83 - 84.
- A-2** 11x17 inch plat showing building lot numbers/boundaries and road layout/names.
Sheets 7 - 10.
- A-3** Narrative describing the nature and purpose of the project.
The proposed project will construct a multiuse path along the north side of 17th St from Monroe St. to Grant St. Project includes new curbs, gutters and storm sewers where required. Additionally, 17th St. from Monroe St. to Grant St. will be widened and resurfaced with a mill and overlay.
- A-4** Vicinity map showing project location.
Sheet 1 (Title Sheet)
- A-5** Legal Description of the Project Site
Specifically, the project site is located in: Indiana, Monroe County, Bloomington Township, T9N, Range 1W; Sections 28, 29, 32, 33. Begin - Latitude: 39.179121° North, Longitude: -86.546960° West; End - Latitude: 39.179012° North, Longitude: -86.529559° West
- A-6** Location of all lots and proposed site improvements.
Anticipated work limits are shown on Sheets XX-XX.
- A-7** Hydrologic unit code (14 digit)
05120202010070: Griffy Creek-Griffy Reservoir
- A-8** Notation of any State or Federal water quality permits.
Rule 5 permit
- A-9** Specific points where stormwater discharge will leave the site.
Majority of stormwater will sheet flow into the City of Bloomington stormwater control system.
- A-10** Location and name of all wetlands, lakes and water courses on and adjacent to the site.
None identified
- A-11** Identification of all receiving waters.
Griffy Creek via unnamed tributaries
- A-12** Identification of potential discharges to ground water.
There are no known areas within the project site where stormwater will be discharged to groundwater.
- A-13** 100 year floodplains, floodways, and floodway fringes.
See attached FIRMETTE
- A-14** Pre-construction and post construction estimate of Peak Discharge (10 year storm event)
Because the project is mostly improving existing pavement, there is no anticipated change to the peak discharge.
- A-15** Adjacent landuse
Adjacent land use is dominated by commercial businesses and private residences.
- A-16** Locations and approximate boundaries of all disturbed areas.
All work shall take place within the existing right of way. Sheets 85 - 93 show the anticipated work areas. Disturbance is anticipated to remain within the designated construction limits.
- A-17** Identification of existing vegetative cover.
Mowed right of way grasses and pavement.
- A-18** Soils map including soil descriptions and limitations.
See attached USGS Soil Map and Report.
- A-19** Locations, size and dimensions of proposed stormwater systems.
See Erosion Control Plan Sheets 85 - 93.
- A-20** Plans for any off-site construction activities associated with this project.
No offsite construction activities are proposed in association with this project.
- A-21** Locations of proposed soil stockpiles and/or borrow/disposal areas.
Offsite disposal of demolition debris is anticipated for this project. Waste sites shall be accepted by the Engineer prior to the start of any disposal operations. For each proposed disposal site, an IC-203 Request for Acceptance of Borrow or Disposal Site form shall be submitted to the Engineer a minimum of 14 days prior to the Contractor's planned start of disposal operations. All requests for acceptance of disposal sites shall be in accordance with INDOT Standard Specification 203.08(a).
- A-22** Existing site topography.
See Plan and Profile Sheet 29 - 46 and cross-sections 120 - 150.
- A-23** Proposed final topography.
See Plan and Profile Sheet 29 - 46 and cross-sections 120 - 150.

Stormwater Pollution Prevention Plan - Construction Component (Section B)

- B-1** Description of potential pollutant sources associated with the construction activities:
While sediment generated from the construction activity is anticipated to be the major pollutant source generated, other sources may include: concrete washout water, oils, fuels, hydraulic fluids, transmission fluids, brake fluid, antifreeze, greases, brake dust, etc. All heavy equipment shall be parked on site at a specific location, when not in use; leakage from the equipment shall be captured by the surrounding terrain, and shall not be provided a direct path to the surrounding waterways or storm sewer system. Construction litter and trash are also potential pollutants.

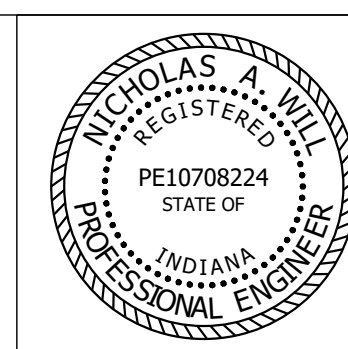
Stormwater Pollution Prevention Plan - Construction Component (Section B - Cont.)

- B-2** Initial Setup:
Upon completion of the initial site inspection, and before any vegetation is removed from the site, this erosion and sediment control plan shall be implemented. The plan must be dynamic and ever changing as the project develops. Proper sequencing of work may reduce the amount of bare soil and therefore reduce the need for extensive erosion and sediment control measures. Continual maintenance and updating of the plan by the construction contractor is of utmost importance. Below is a general sequencing of events for this erosion and sediment control plan. While the Contractor shall dictate the actual sequencing of construction, erosion and sediment control measures shall be implemented as described below during each phase of construction.
 1. Flag or denote all construction limits.
 2. Contractor shall develop a Storm Water Quality Control Plan (SWQCP) . The SWQCP shall be provided to the Engineer a minimum of 14 days prior to commencement of earth moving activities. As part of the contractor's SWQCP the contractor is responsible for developing a written concrete wastewater management plan for the collection, storage, and disposal of concrete washout wastewater that is adequate for the size of the concrete placement, the environmental conditions of the job site, and in accordance with 327 IAC 15-5-7(2) and 327 IAC 15-13-17(2)(F). No concrete shall be placed on the site without an approved concrete wastewater management plan. A secondary washout container shall be on site and be part of the material handling and spill prevention plan. Straw bale washout pits will not be allowed. Concrete washout wastewater may either be recycled back into the truck, washed out into a lined roll off container, lined in-ground pit of adequate size, an approved manufactured product, or taken back to a batch plant.
 3. A pre-construction meeting with the engineer, contractor, and contractor's Storm Water Quality Manager (SWQM) shall be held prior to any earth moving activities.
 4. Establish areas for storage of potential pollutants (e.g. concrete washout, fuel storage, hydraulic fluids, etc.).
 5. Notify the IDEM at least 48-hours prior to commencement of work.
 6. Identify and protect all existing vegetation designated to be undisturbed.
 7. Install erosion and sediment control perimeter protection to include construction entrances, inlet protection, filter sock, etc. Proposed locations for these measures are shown on the plans, but may need to be modified and/or replaced based on the contractors construction sequencing and SWQCP.
 8. Install concrete washouts where needed and in accordance with the approved concrete wastewater management plan to ensure that no concrete washout water enters the stormwater system, comes in contact with the ground, or leaves the project limits.
 - 8.1. Concrete washouts shall be installed 24 hours prior to and approved by the Engineer before placement of any concrete.
 - 8.2. Concrete washouts shall be in accordance with the detail shown on the plans (or other approved design) and located no closer than 50 feet from any storm drain inlet, jurisdictional waterway, body of water or wetland.
- B-3** Construction Entrance:
Locations of temporary entrances/exits will be determined by the contractor based on their needs and schedule. All temporary entrances/exits shall be constructed in accordance with INDOT standard drawing E 205-TECD-12.
- B-4** Sediment control measures for sheet flow areas:
Filter Sock (FS): A temporary barrier consisting of permeable material (i.e aggregate, compost, excelsior, or straw, etc.) contained in a permeable geotextile fabric or no-biodegradable net matrix installed to intercept and treat sediment-laden runoff from small, unvegetated, or disturbed drainage areas. They will reduce erosion by intercepting runoff and reducing the velocity of the runoff and diverting runoff into stabilized areas. FS shall be installed per INDOT Standard Drawing E 205-TECD-10
Vegetative Filter Strip (VFS): A vegetative filter strip is an area where the ground cover is to be left undisturbed to filter runoff from the disturbed drainage area. All existing vegetation located outside of the construction limits, shall not be disturbed, to act as vegetative filter strips. In some cases, no silt fence or filter socks may be needed if a minimum 20-foot vegetative filter is left between disturbed areas and the edge of the site or a concentrated flow area.
- B-5** Sediment control measures for concentrated flow areas:
Dewatering: May be used to remove water collected in excavations or other low areas. Proper outflow of the dewatering activity should be reviewed and planned for to prevent discharge of sediment laden runoff into adjacent storm sewer inlets. Dewatering components include pump, water filtering device (sediment bag), stabilized outlet, and secondary containment (check dam, silt fence, filter sock, etc.).
- B-6** Storm sewer inlet protection measure locations and specifications:
Inlet Protection (IP): Inlets transport sediment to streams, rivers, wetland and lakes if they are not properly protected. This sediment control measure can be the last chance to remove sediment before storm water leaves the job site. IP can take many forms and shall be installed according to INDOT Standard drawings E205-TECD-02 to 04 or another method approved by the Engineer.
- B-7** Runoff control measures:
Concrete Washout (CW): Concrete washout areas shall be installed and utilized as containment for washing equipment of uncured concrete and associated liquids. CWs shall be installed and constructed in accordance with the approved concrete wastewater management plan and approved by the Engineer at least 24 hours prior to the placement of any concrete. Straw bales shall not be used in the construction of concrete washout areas. All concrete washout water shall be discharged in to a concrete washout area. CW's will be placed a minimum of 50 feet from any body of water, storm water inlets or other stormwater conveyances. They shall be placed on stable material and in such a manner that all washout water is captured and contained in the CW.
- B-8** Stormwater outlet protection specifications:
No storm water outlets are planned for this project.
- B-9** Grade stabilization structure locations and specifications:
Not required
- B-10** Locations, dimensions, specifications and constr. details of each stormwater quality measure:
The location of all stormwater quality measures can be found on Sheet 85 - 93. Construction details can be found on Sheet 94 and in INDOT Standard Drawings.
- B-11** Temporary surface stabilization methods appropriate for each season:
Non-vegetated areas shall be temporarily stabilized if the area remains inactive for more than seven days. The area will be considered inactive when no meaningful work toward accomplishing a pay item has been performed at a site of disturbed soil. Stabilization methods shall be as shown in the SWQCP. Temporary surface stabilization shall be accomplished in accordance with INDOT Standard Specification 205.04.
 1. Mulch: Mulch shall be applied uniformly in a continuous blanket at the rate of 2.5 t/ac and in accordance with INDOT Standard Specification 205.04(b).

Stormwater Pollution Prevention Plan - Construction Component (Section B - Cont.)

- B-12** Permanent surface stabilization specifications:
Where pavement is not proposed, permanent surface stabilization shall be achieved by the use of a permanent seed mixture (INDOT Seed Mix R), along with mulching material/erosion control blankets and fertilizer or sod. Permanent surface stabilization shall be accomplished in accordance with INDOT Standard Specification 621.
 1. Mulch: Mulching material shall be applied uniformly in a continuous blanket at the rate of 2 t/ac within 24 h after seeding and in accordance with INDOT Standard Specification 621.05(c).
- B-13** Material handling and spill prevention plan:
Any onsite storage of hazardous materials/potential pollutants, such as diesel fuel, shall be stored onsite surrounded by an earthen dike or other secondary containment system having a storage volume equal to 150% of tank capacity, to contain potential pollutants. Any additional means of containing releases should be accessible to a petroleum storage area; this would include various absorbent materials. In the event of a release, a licensed environmental consulting company, should be contacted for spill cleanup assistance. Furthermore, all equipment, when not in use, shall be parked onsite in an area that, should potential pollutants leak, will be contained within the immediate area and will not be inadvertently conveyed to drainage swales and away from the project. Any leakage of pollutants from storage vessels or equipment shall be cleaned up and disposed of offsite in a legal manner. In the event of a release, a licensed environmental consulting company shall be contacted for spill cleanup assistance. The spill shall be reported to both IDEM's 24-hour emergency response line at (888) 233-7745 and Monroe County dispatch at (812) 349-2546 for local emergency response.
- B-14** Monitoring and maintenance guidelines for each proposed pollution prevention measure:
In accordance with INDOT Specification 205, the contractor shall develop a Storm Water Quality Control Plan (SWQCP). The SWQCP shall include the processes and procedures of how the Contractor intends to meet the requirements as outlined in 205 and the approved SWPPP. The SWQCP shall include a written plan for the collection, storage, and disposal of concrete washout waste water that is adequate for the size of the anticipated concrete placement. Any individual phase of the SWQCP shall be submitted to the Engineer for review a minimum of 14 calendar days prior to commencing earth disturbing activities for that phase. Temporary erosion and sediment control measures shall be self-inspected by the Contractor's SWQM, once every seven days and within 24 hours of a 1/2 inch measurable storm event. Inspections shall be documented and records shall be maintained by the Contractor's SWQM and be made available for review upon request. Records shall include, at a minimum: date, inspector's name, maintenance and corrections needed based on the inspection, and status of previously identified deficiencies. Inspections shall be documented electronically using the Stormwater, Erosion, and Sediment Control Inspection Report which is available on INDOT's website or provided by the Engineer. If the contractor is unable to utilize the electronic version, INDOT Form 108-c-192d: Storm Water, Erosion, and Sediment Control Inspection Report shall be utilized and is available on INDOT's website for use. Temporary protection measures shall be returned to good working condition within 48 hours after inspection or as directed. Inspections shall continue until the entire contract is complete and has been permanently stabilized and the Notice of Termination has been filed with the reviewing authority.

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RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	12/27/2021
	DESIGN ENGINEER	DATE
DESIGNED: _____	JAF	DRAWN: _____
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		JAF

17th STREET MULTI-USE PATH CONSTRUCTION PLANS CITY OF BLOOMINGTON, INDIANA	
EROSION CONTROL PLANS INFORMATION SHEET	

HORIZONTAL SCALE	BRIDGE FILE	
No Scale	N/A	
VERTICAL SCALE	DESIGNATION	
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SURVEY BOOK	SHEETS	
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CONTRACT	PROJECT	
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Stormwater Pollution Prevention Plan - Construction Component (Section B)(Cont'd)

B-14 Monitoring and maintenance guidelines for each proposed pollution prevention measure (Cont.):
The following shall apply to maintaining the specific erosion and sediment control facilities:

- **Construction Entrances:**
 - Inspection
 - Verify entrances are where they are most effective.
 - Ensure entrances do not interfere with existing drainage patterns.
 - Inspect entrances each day they are being used.
 - Monitor tracking onto public roads and observe sediment being collected in the stone.
 - Maintenance
 - Redress #2 stone as necessary to provide clean stone with voids capable of trapping additional sediment.
 - Remove and replace #2 stone on construction entrances near sensitive areas or where redressing could cause a safety or drainage problems.
 - Sweep or otherwise remove sediment from public roads as necessary.
 - Reshape, resize or relocate ineffective construction entrances.
- **Filter Sock:**
 - Inspection
 - Monitor sediment accumulation and remove one it reaches one-quarter of the height of the filter berm/sock.
 - Look for areas that been damaged by storm water or equipment.
 - Maintenance
 - Replace or resecure damaged filter socks.
 - Replace with rock or stronger measure if damage is sever or reoccurring.
 - Remove accumulated sediment once it reaches one-quarter of the height of the filter berm.
- **Vegetative Buffers**
 - Inspection
 - Inspect for the beginning of erosion rills or channel erosion.
 - Inspect for sediment accumulation.
 - Maintenance
 - Promptly repair any small rills that form.
 - Add fertilizer and soil amendments as needed to maintain healthy vegetation.
 - Mow as needed but not shorter than four inches.
 - Where the filter strip has actively trapped sediment during construction, remove the accumulated sediment, regrade the area and reseed it when conditions are favorable for vegetative establishment.
- **Inlet Protection**
 - Inspection
 - Look for damaged, clogged or ineffective materials.
 - Make sure storm water is not bypassing or undercutting any type of inlet protection that has been installed.
 - Maintenance
 - Remove sediment after each storm event.
 - If measure is repeatedly damaged or clogged, consider additional erosion and sediment control measures upstream in a series.
 - Cleaning by flushing with water will not be allowed.
- **Concrete Washout**
 - Inspection
 - Make sure all concrete slurry can be contained within the washout provided. Construct additional washouts as needed.
 - Inspect daily during concrete placement operations.
 - Ensure washout is completely contained with one sheet of plastic free of tears.
 - Dispose of cured concrete per specifications.
 - Maintenance
 - Repair or replace if leaks, spills or tears are found.
 - Provide additional concrete washout as needed to ensure adequate capacity.
- **Dewatering**
 - Inspection
 - Inspect daily during dewatering operations.
 - Inspect condition of the filter location and identify any rills, washouts, displaced surface stabilization that require repairs.
 - Review piping system for leaks, kinks or other conditions needing repair.
 - Monitor the creek water level upstream to ensure pump is adequately sized and water does not flow over cofferdam.
 - Monitor the weather forecast and anticipate increases in stream water.
 - Inspect sediment bag daily for leaks, rips or other damage.
 - Maintenance
 - Adjust outlet stabilization if erosion is noticed.
 - Adjust pump capacity as needed to handle stream water volume.
 - Fix leaks or otherwise stabilize cofferdam if water is flowing into the work area.
 - Replace torn or damaged sediment bags.

The SWQM, shall routinely inspect the overall performance of erosion and sediment control facilities and areas downstream of the project site. If eroded material/silt is apparent downstream from the facilities, some failure has occurred, and the inspector shall notify the contractor and Engineer. The contractor shall remove the accumulated sediment downstream and add additional erosion and sediment control measures to address the issues as necessary. The contractor shall implement all recommended solutions to the problem areas as recommended by the SWQM, Engineer, IDEM, SWCD or MS4 inspector within 48 hours.

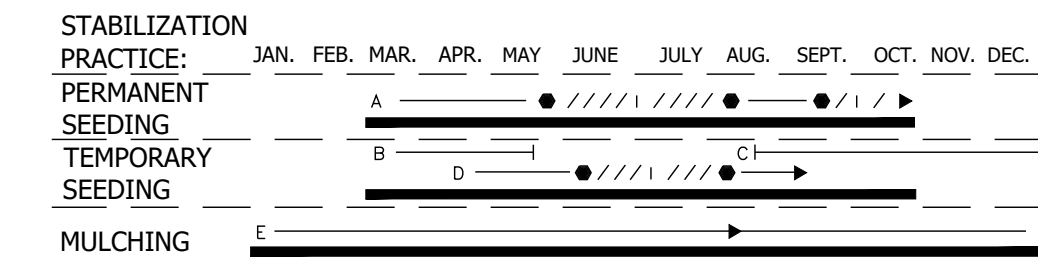
After site has achieved 70% density of vegetative cover, all erosion and sediment control measures and associated unsuitable materials have been removed; the owner or their designated representative shall submit a Rule 5 Notice of Termination (N.O.T.) to the SWCD agent/reviewing authority for approval.

B-15 Erosion and sediment control specifications for individual building lots:
Not applicable.

Stormwater Pollution Prevention Plan - Post Construction Component (Section C)

- C-1** Description of pollutants and their sources associated with the proposed land use:
Additional pollutant sources will be from trash (both organic and inorganic), lawn chemicals, grass clippings, grit brought in from the existing surrounding roads from various vehicles (fuel, antifreeze, oil, grease, brake dust, brake fluid, transmission fluid, other hydrocarbons, etc.), pet and other animal waste, etc.
- C-2** Sequence describing stormwater quality measure implementation:
Upon completion of all bridge and road work most of the site will be paved. Shoulders, ditches and other disturbed areas will be seeded, mulched or sodded to develop vegetative filter strips. Slopes directly under the new bridge will be protected with rip rap. All existing vegetation outside of the project limits will not be disturbed, and this vegetation will continue to filter out pollutants from the stormwater prior to it leaving the site, and entering into the surrounding water sources.
- C-3** Description of proposed post construction stormwater quality measures:
The above referenced measures will create vegetated filter strips and swales in accordance with the Indiana Storm Water Quality Manual (SWQM). Chapter 8 of the Indiana SWQM identifies 81% removal of total suspended solids (TSS) through the use of vegetated swales. Vegetated filter strips are anticipated to remove greater than 81% TSS. serve as filtering measures, to reduce the amount of pollutants contained within the stormwater as it leaves the project site. Additionally, the measures will serve to reduce the amount of erosion within the project site, thus reducing the amount of sediment within the stormwater.
- C-4** Location, dimensions, specifications and construction details of each stormwater quality measure:
The entire project site where not paved or stabilized with rip rap will be seeded in accordance with Construction Component "Section B" of this Storm Water Pollution Prevention Plan.
- C-5** Description of maintenance quidelines for proposed post-construction water quality measures:
Erosion and sediment control: Repair and revegetate eroded areas in the project site. These measures will be implemented, as needed, based on regular inspections by the City of Bloomington.
Other maintenance shall be in accordance with the City of Bloomington standard operating procedures following construction in regards to inspections, mowing and right-of-way maintenance, debris and litter removal, nuisance control, sediment removal, and necessary repairs.

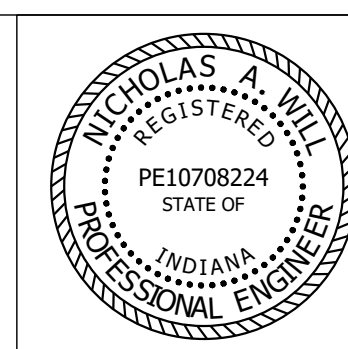
SEEDING SCHEDULE



PERMANENT SEEDING (2022 STANDARD SPECIFICATION 621.05)
A = INDOT TYPE "R"; THIS SEED MIXTURE SHALL BE APPLIED AT THE RATE OF 202.5 LB/AC CONSISTING OF 100LB/AC OF LOW ENDOPHYTE TALL FESCUE, 50 LB/AC OF TURF TYPE PERENNIAL RYEGRASS, 50 LB/AC OF CREEPING RED FESCUE, AND 52.5 LB/AC OF WHITE DUTCH CLOVER. SEED USED IN THIS MIXTURE SHALL BE DROUGHT TOLERANT. IF HYDROSEEDING, APPLY SLURRY AT A RATE OF 2,000 LBS PER ACRE.
E = PERMANENT MULCH SHALL BE APPLIED UNIFORMLY IN A CONTINUOUS BLANKET AT THE RATE OF 2T/AC. FERTILIZER: UNLESS OTHERWISE INDICATED IN THE SWQCP, FERTILIZER FOR PERMANENT SEED SHALL BE SPREAD UNIFORMLY OVER THE AREA TO BE SEEDED AND SHALL BE APPLIED AT 800 LB/AC.
TEMPORARY SEEDING (2022 STANDARD SPECIFICATION 205.04):
B = SPRING MIX SHALL BE USED FROM JANUARY 1 THROUGH JUNE 15. THIS MIXTURE SHALL BE APPLIED AT THE RATE OF 150 LB/AC. THE MIX SHALL CONSIST OF OATS.
C = FALL MIX SHALL BE USED FROM SEPTEMBER 1 THROUGH DECEMBER 31. THIS MIXTURE SHALL BE APPLIED AT THE RATE OF 150 LB/AC. THIS MIX SHALL CONSIST OF WINTER WHEAT.
D = TEMPORARY SEEDING: ANNUAL RYE GRASS (1 LB. PER 1000 SQ FT.)
E = TEMPORARY MULCH SHALL BE APPLIED UNIFORMLY IN A CONTINUOUS BLANKET AT THE RATE OF 2.5T/AC. FERTILIZER: UNLESS OTHERWISE INDICATED IN THE SWQCP, FERTILIZER FOR TEMPORARY SEED SHALL BE SPREAD UNIFORMLY OVER THE AREA TO BE SEEDED AND SHALL BE APPLIED AT 400 LB/AC. FERTILIZER SHALL ONLY BE APPLIED DURING THE ACTIVE GROWING SEASON, MARCH THROUGH NOVEMBER.

- / / • IRRIGATION NEEDED DURING JUNE, JULY, AND / OR SEPTEMBER.
- • IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD

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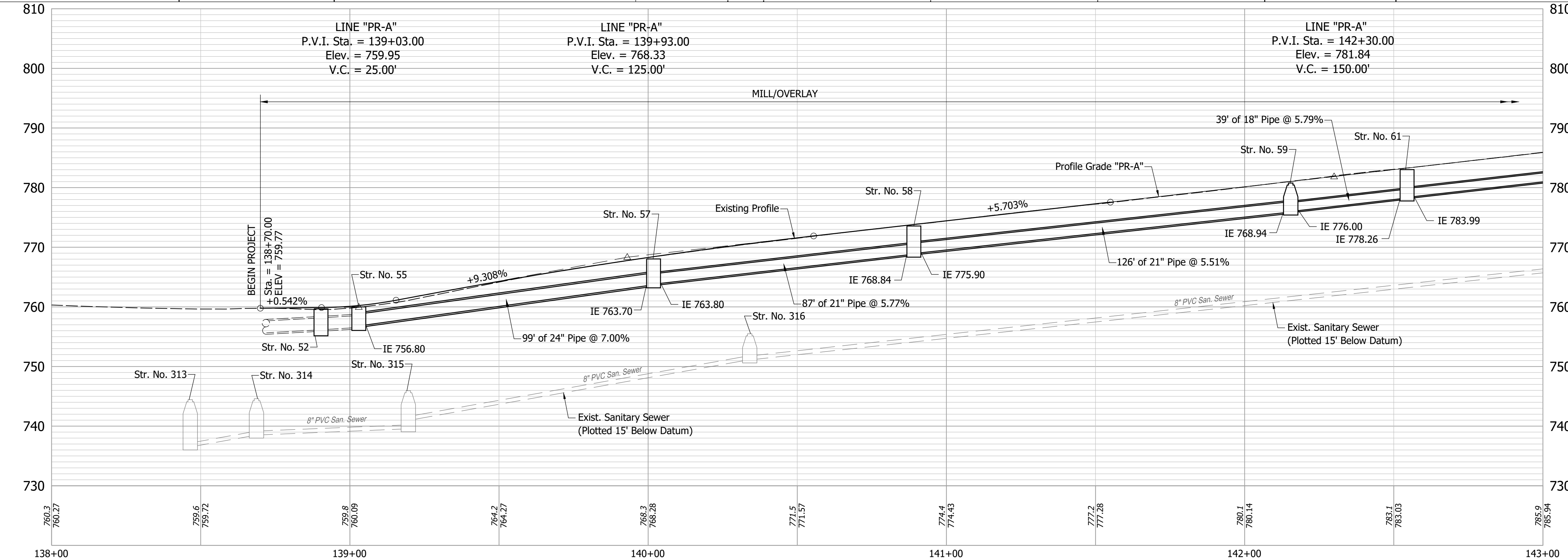
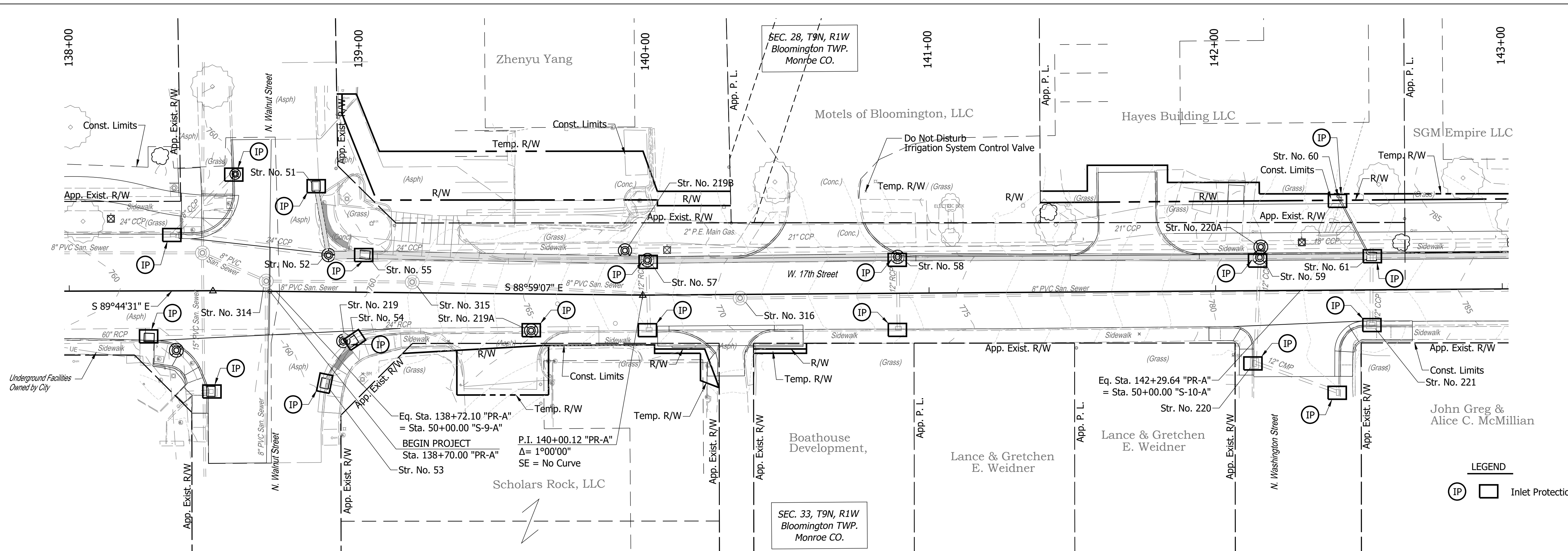


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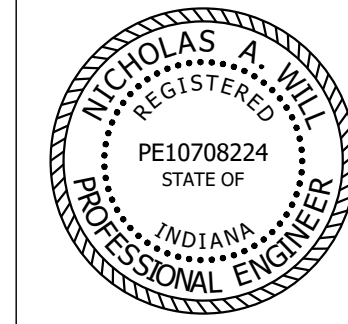
17th STREET MULTI-USE PATH
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CITY OF BLOOMINGTON, INDIANA

EROSION CONTROL PLANS
INFORMATION SHEET

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No Scale	N/A
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---	N/A
SURVEY BOOK	SHEETS
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CONTRACT	PROJECT
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Notes:
 All Stationing off Line "PR-A" Unless Otherwise Noted.
 For R/W Information, See Right-Of-Way Details



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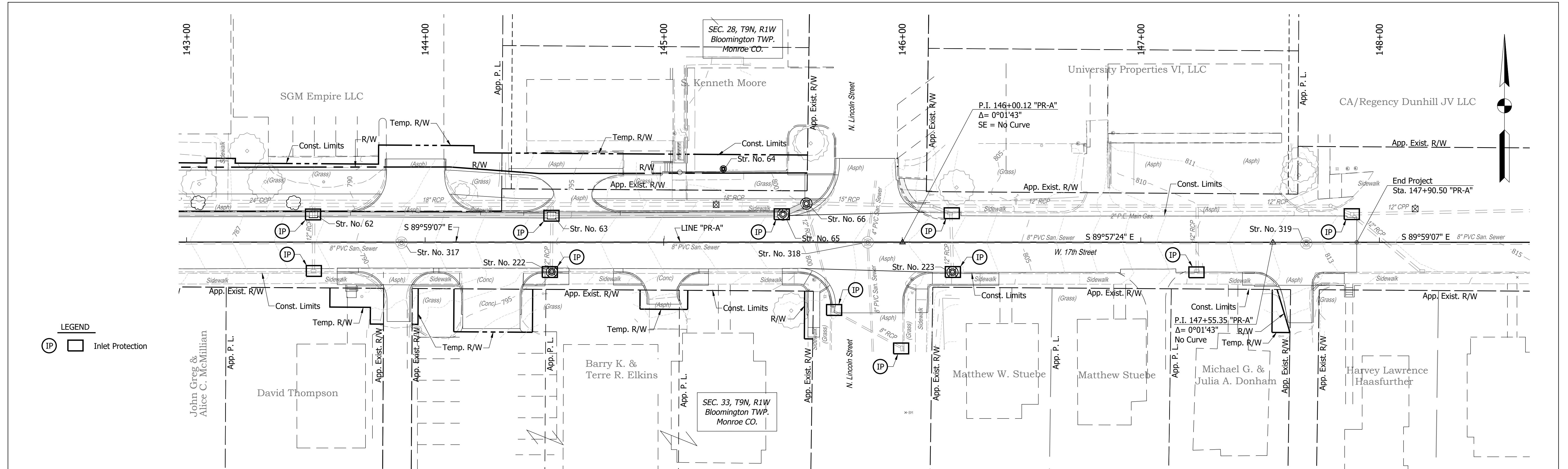
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**17th STREET MULTI-USE PATH
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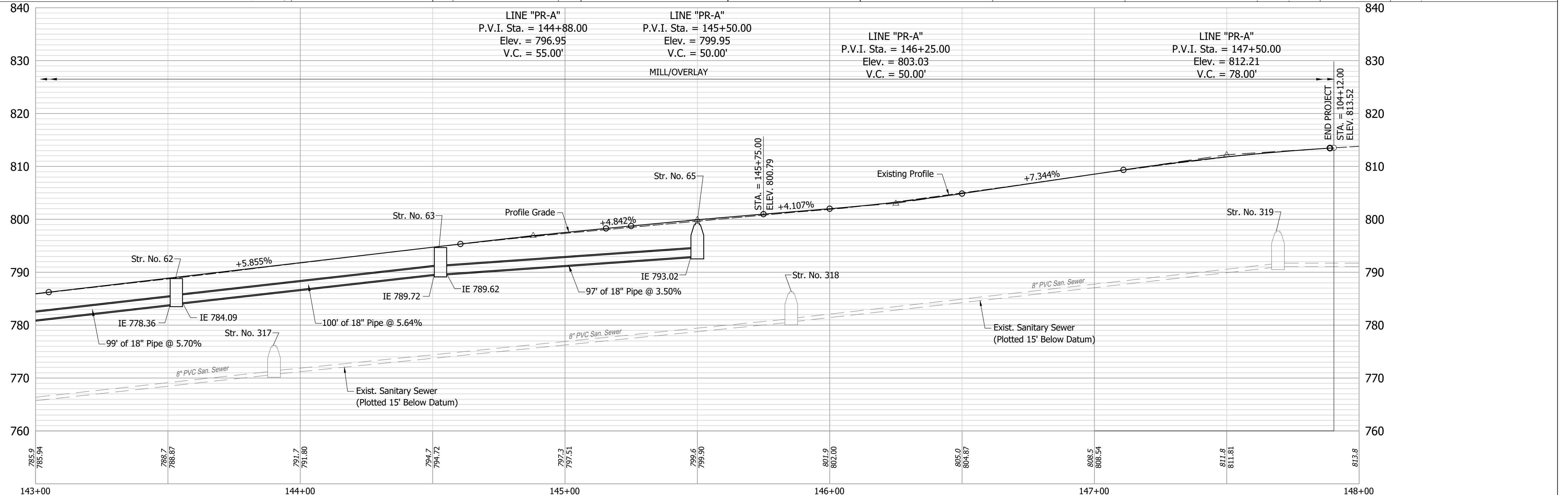
**EROSION CONTROL PLANS LINE "PR-A"
 STA. 138+70 TO 143+00**

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
1"=10'	N/A
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CONTRACT	34 of 56
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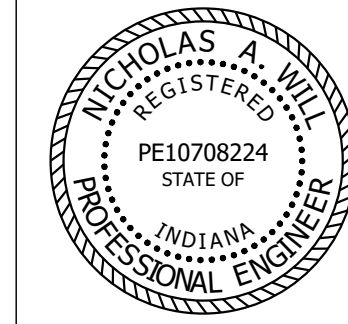
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LEGEND
 IP Inlet Protection



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**17th STREET MULTI-USE PATH
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 CITY OF BLOOMINGTON, INDIANA

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	35 of 56
CONTRACT	PROJECT

Date: Mar 11, 2022, 4:20pm User Name: T Lyons
 File: S:_2019\119-0055\Road_East Phase\CAD\Erosion\EC Plan Line PR-A.dwg

TEMPORARY INLET PROTECTION		
FROM STATION	TO STATION	NO. REQ'D.
		INLET (EACH)
Line "PR-A"		
138+00	143+00	19
143+00	148+00	11
TOTAL:		30

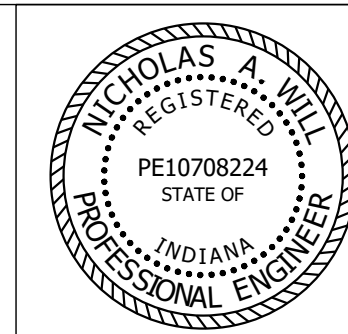
PROJECT QUANTITIES	
No. 2 Stone : (2 Constr. Entrances, locations determined in field)	100 Ton
Temporary Geotextile (2-Construction Entrances)	235 SYS
Mobilization & Demobilization for surface stabilization	2 Each
Sediment, Remove	20 Cyd
Concrete Washout (undisturbed locations, locations determined in field)	4 Each

TEMPORARY MULCH (0.12 ac)	
Temporary Mulch (2.5 Ton/Acre * 2 appl.)	1 Ton

FERTILIZER (0.12 ac)	
Temporary Seeding (0.2 Ton/Acre * 2 appl.)	0.1 Ton

TEMPORARY SEED MIXTURE (0.12 ac)	
Temporary Seeding Mixture (200 lbs/Acre * 2 appl.)	48 lbs

Date: Mar 11, 2022, 4:21pm User Name: T Lyons File: S:_2019\119-0055\Road_East Phase\CAD\Erosion\EC_Tables.dwg



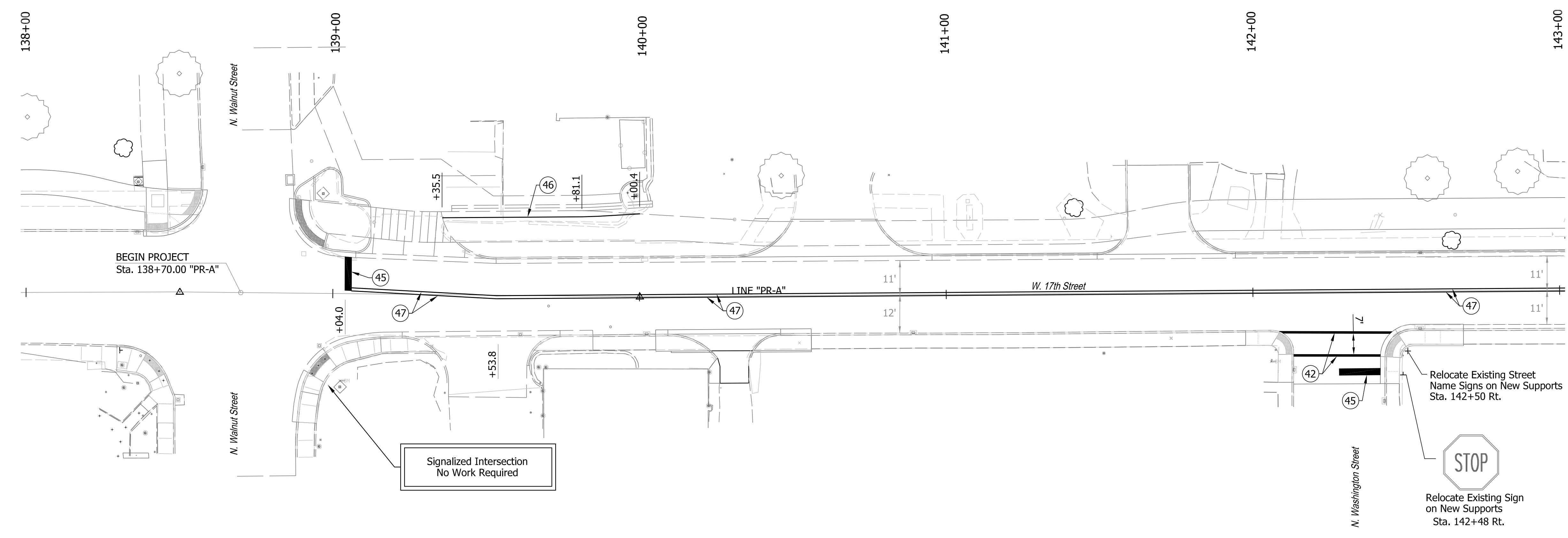
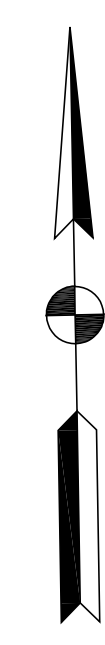
RECOMMENDED FOR APPROVAL *Nicholas A. Will* 12/27/2021
DESIGN ENGINEER DATE

DESIGNED: JAF DRAWN: DAG
CHECKED: NAW CHECKED: JAF

17th STREET MULTI-USE PATH
CONSTRUCTION PLANS
CITY OF BLOOMINGTON, INDIANA

EROSION & SEDIMENT CONTROL TABLES

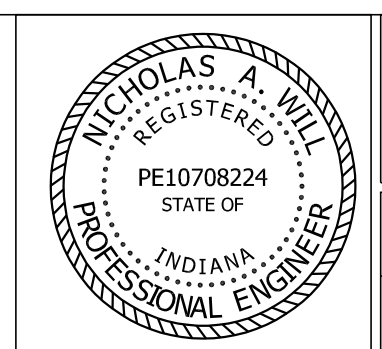
HORIZONTAL SCALE	BRIDGE FILE
No Scale	N/A
VERTICAL SCALE	DESIGNATION
-	N/A
SURVEY BOOK	SHEETS
	36 of 56
CONTRACT	PROJECT
-	- - -



- LEGEND**
- ④② Transverse Markings, Thermoplastic, Crosswalk Line, 6"
 - ④⑤ Transverse Markings, Thermoplastic, Stop Line, White, 24"
 - ④⑥ Line, Thermoplastic, Solid, White, 4"
 - ④⑦ Line, Thermoplastic, Solid, Yellow, 4"
 - ⊥ Ground Mounted Sheet Sign

Date: Mar 19, 2022, 1:31pm User Name: Nick
File: S:_2019\119-0055\Road_East Phase\CAD\Signs\m\Mark\Striping Details.dwg

Notes:
All Stationing off Line "PR-A" Unless Otherwise Noted.

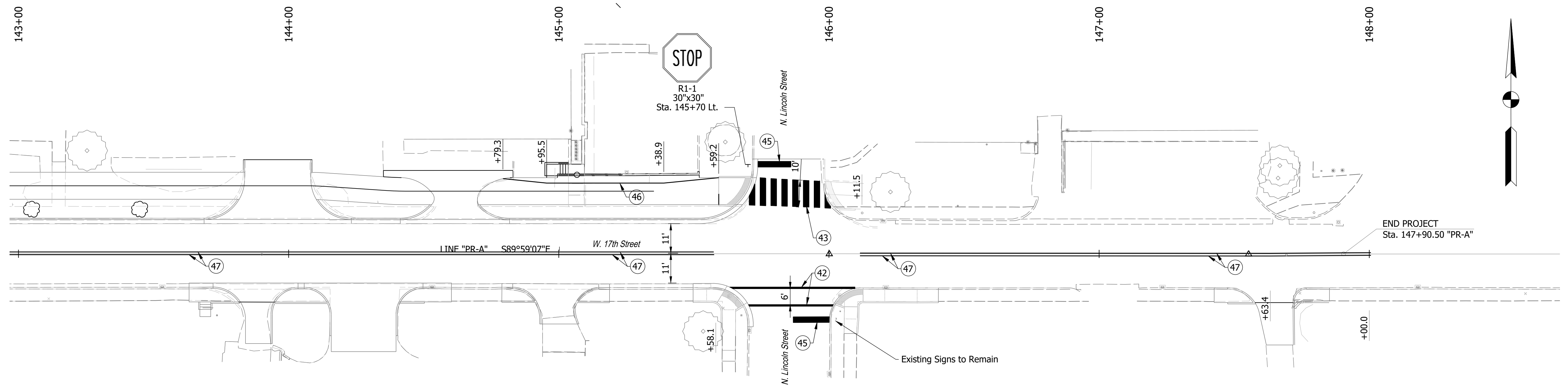


RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	12/27/2021
	DESIGN ENGINEER	DATE
DESIGNED: JAF	DRAWN: DAG	
CHECKED: NAW	CHECKED: JAF	

**17th STREET MULTI-USE PATH
CONSTRUCTION PLANS**
CITY OF BLOOMINGTON, INDIANA

**PROPOSED PAVEMENT MARKING
DETAILS LINE "PR-A"
STA. 138+70 TO 143+00**

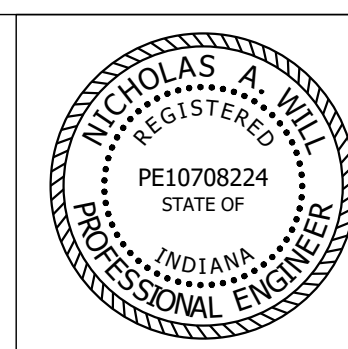
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1"=20'	N/A
VERTICAL SCALE	DESIGNATION
---	N/A
SURVEY BOOK	SHEETS
	37 of 56
CONTRACT	PROJECT
-	---



LEGEND

- ④② Transverse Markings, Thermoplastic, Crosswalk Line, 6"
- ④③ Transverse Markings, Thermoplastic, Crosswalk Line, White, 24"
- ④⑤ Transverse Markings, Thermoplastic, Stop Line, White, 24"
- ④⑥ Line, Thermoplastic, Solid, White, 4"
- ④⑦ Line, Thermoplastic, Solid, Yellow, 4"
- ⊥ Ground Mounted Sheet Sign

Notes:
 Top Viewport Stationing off Line "PR-A"
 Bottom Viewport Stationing off Line "S-4-A"



RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	DESIGN ENGINEER	12/27/2021	DATE
DESIGNED:	JAF	DRAWN:	DAG	
CHECKED:	NAW	CHECKED:	JAF	

**17th STREET MULTI-USE PATH
 CONSTRUCTION PLANS**
 CITY OF BLOOMINGTON, INDIANA

**PROPOSED PAVEMENT MARKING DETAILS
 STA. 143+00 TO 148+00 LINE "PR-A"**

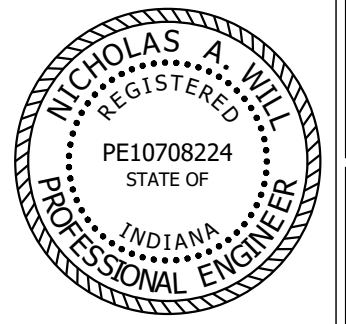
HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
---	N/A
SURVEY BOOK	SHEETS
	38 of 56
CONTRACT	PROJECT

Date: Mar 11, 2022, 4:24pm User Name: T Lyons
 File: S:_2019\19-0055\Road_East Phase\CAD\Signs\m\Mark Stripping Details.dwg

SHEET SIGN & POST SUMMARY																	
SIGN						POST <small>** 12" Wide Mounted Sign Bracket Shall Be Used.</small>											
PLAN SHEET NO. / LINE	SIGN LOCATION (STA.)	SIGN CODE	SIGN	SIGN SIZE (IN. x IN.)	GROUND - MOUNTED SIGN AREA (Sq. Ft.)			SQUARE						REMARKS			
					0.080	0.100	0.125	2 1/2" x 2 1/2" - 12 ga. (TYPE 3)		2" x 2" - 12 ga. (TYPE 2)		2 1/4" x 2 1/4" - 12 ga. (TYPE 1)					
								UNREINFORCED		REINFORCED		REINFORCED					
								POST LENGTH (Ft.)		POST LENGTH (Ft.)		POST LENGTH (Ft.)					
1	2	TOTAL (Ft.)	1	2	TOTAL (Ft.)	1	TOTAL										
Line "PR-A"	142+48 Rt.	R1-1	Stop Sign	-	Existing Sign on New Support										x	11.00	
	142+50 Rt.	-	Street Name Signs	-	Existing Signs on New Supports										x	8.00	
	145+70 Lt.	R1-1	Stop Sign	30x30	6.25										x	11.00	
SHEET TOTAL					6.25											30.00	

SIGN, SHEET, RELOCATE			
STATION	LOCATION	SIGN	QUANTITY (EACH)
Line "PR-A"			
142+50.00	Rt.	STREET SIGNS	1
		TOTAL	1

Date: Mar 11, 2022, 4:24pm User Name: T Lyons File: S:_2019\119-0055\Road_East Phase\CAD\Signs\m\Mark Sign Table_Details.dwg



RECOMMENDED FOR APPROVAL *Nicholas A. Will* 12/27/2021
DESIGN ENGINEER DATE

DESIGNED: JAF DRAWN: DAG
 CHECKED: NAW CHECKED: JAF

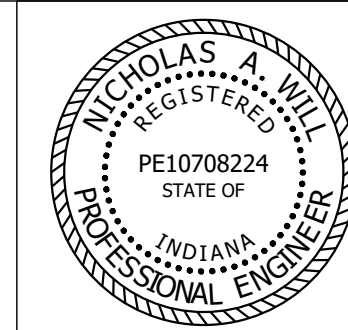
17th STREET MULTI-USE PATH
 CONSTRUCTION PLANS
 CITY OF BLOOMINGTON, INDIANA

SIGN TABLE

HORIZONTAL SCALE	BRIDGE FILE
No Scale	N/A
VERTICAL SCALE	DESIGNATION
-	N/A
SURVEY BOOK	SHEETS
	39 of 56
CONTRACT	PROJECT
-	- - -

Date: Mar 11, 2022, 4:24pm User Name: T Lyons
 File: S:_2019\19-0055 Road_East Phase\CAD\Signs\Mark\Sign Table_Details.dwg

PAVEMENT MARKING SUMMARY						
LOCATION		THERMOPLASTIC				
		LINE, SOLID, WHITE, 4"	LINE, SOLID, YELLOW, 4"	TRANSVERSE MARKINGS, STOP LINE, WHITE, 24"	TRANSVERSE MARKINGS, CROSSWALK LINE, WHITE, 6"	TRANSVERSE MARKINGS, CROSSWALK LINE, WHITE, 24"
FROM STATION	TO STATION	Ft.	Ft.	Ft.	Ft.	Ft.
Line "PR-A"						
138+70.00	147+90.50	145	1682	11		80
N. Washington St. Rt.				14	65	
N. Lincoln St. Rt.				14	78	
N. Lincoln St. Lt.				12		73
TOTALS:		145	1682	51	143	153



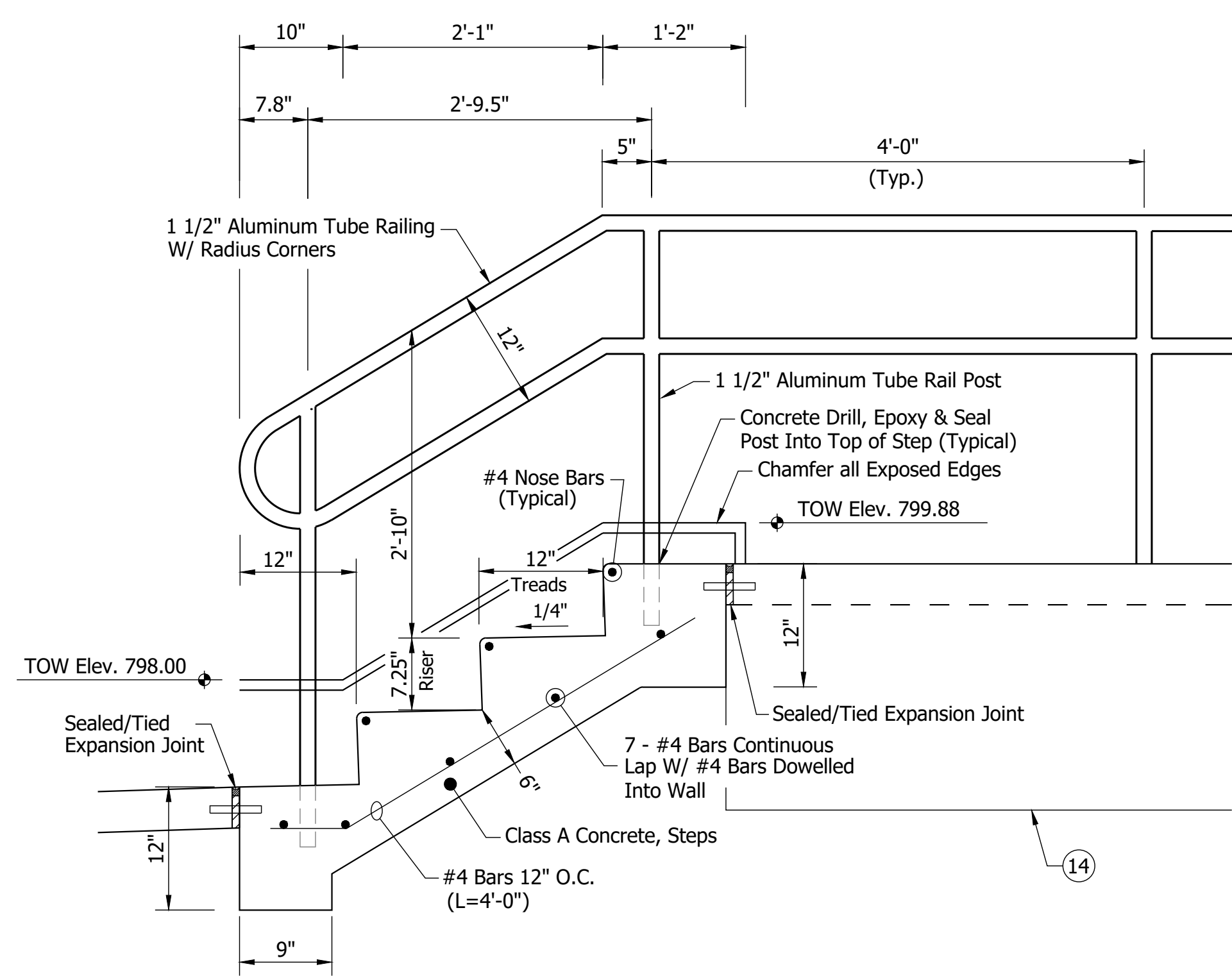
RECOMMENDED FOR APPROVAL *Nicholas A. Will* 12/27/2021
 DESIGN ENGINEER DATE

DESIGNED: JAF DRAWN: DAG
 CHECKED: NAW CHECKED: JAF

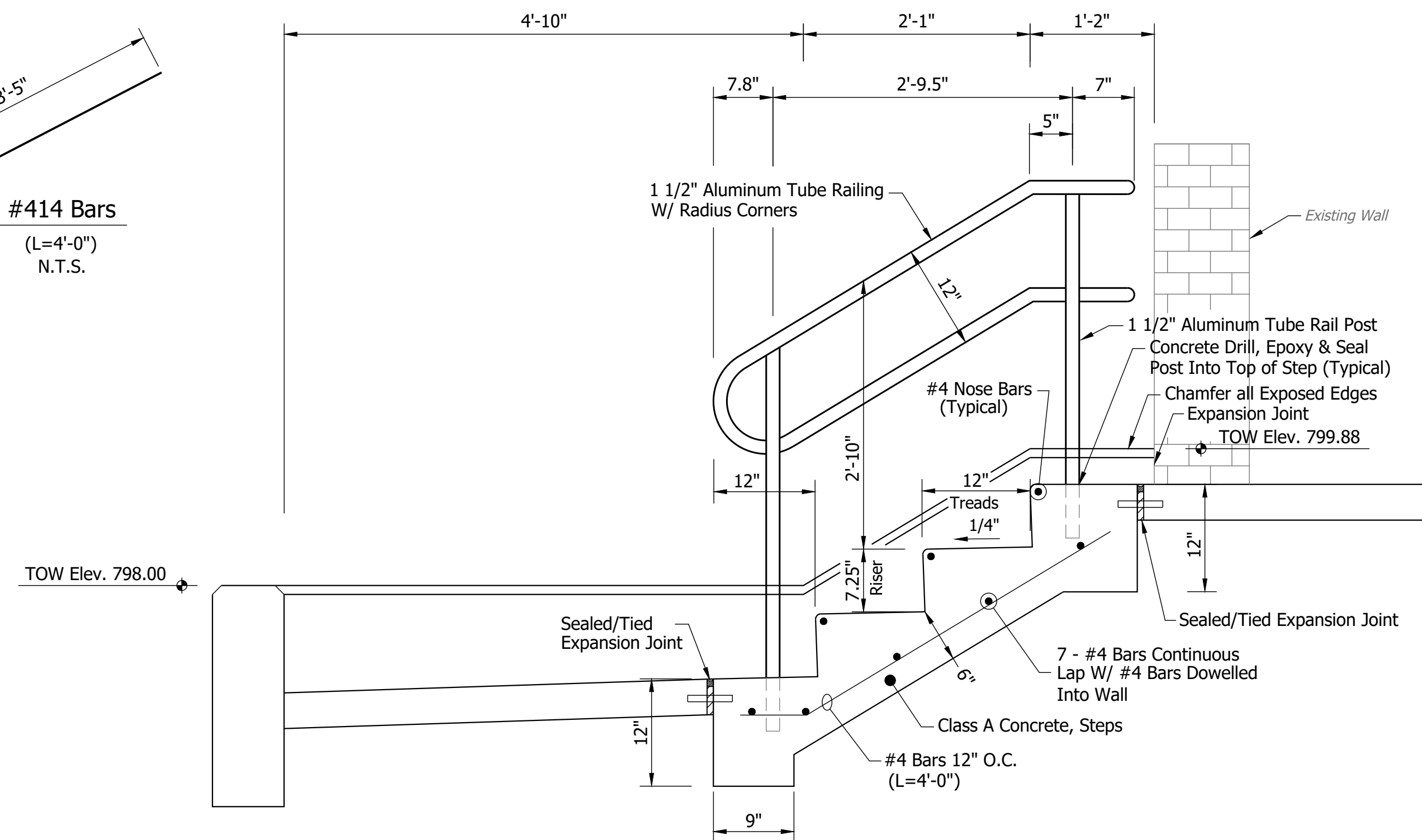
17th STREET MULTI-USE PATH
 CONSTRUCTION PLANS
 CITY OF BLOOMINGTON, INDIANA

PAVEMENT MARKINGS TABLE

HORIZONTAL SCALE	BRIDGE FILE
No Scale	N/A
VERTICAL SCALE	DESIGNATION
-	N/A
SURVEY BOOK	SHEETS
	40 of 56
CONTRACT	PROJECT
-	- - -

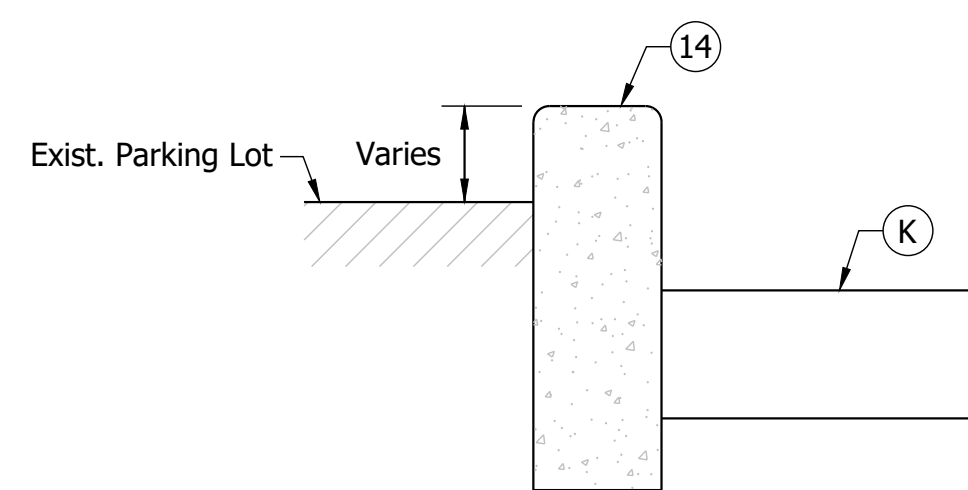


STEP SECTION
Scale: 1"=1'

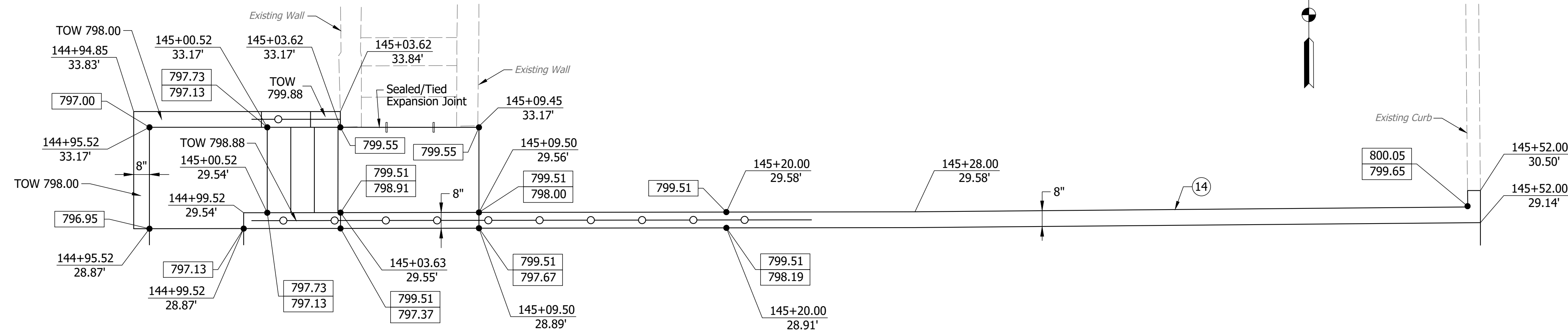


STEP SECTION
Scale: 1"=1'

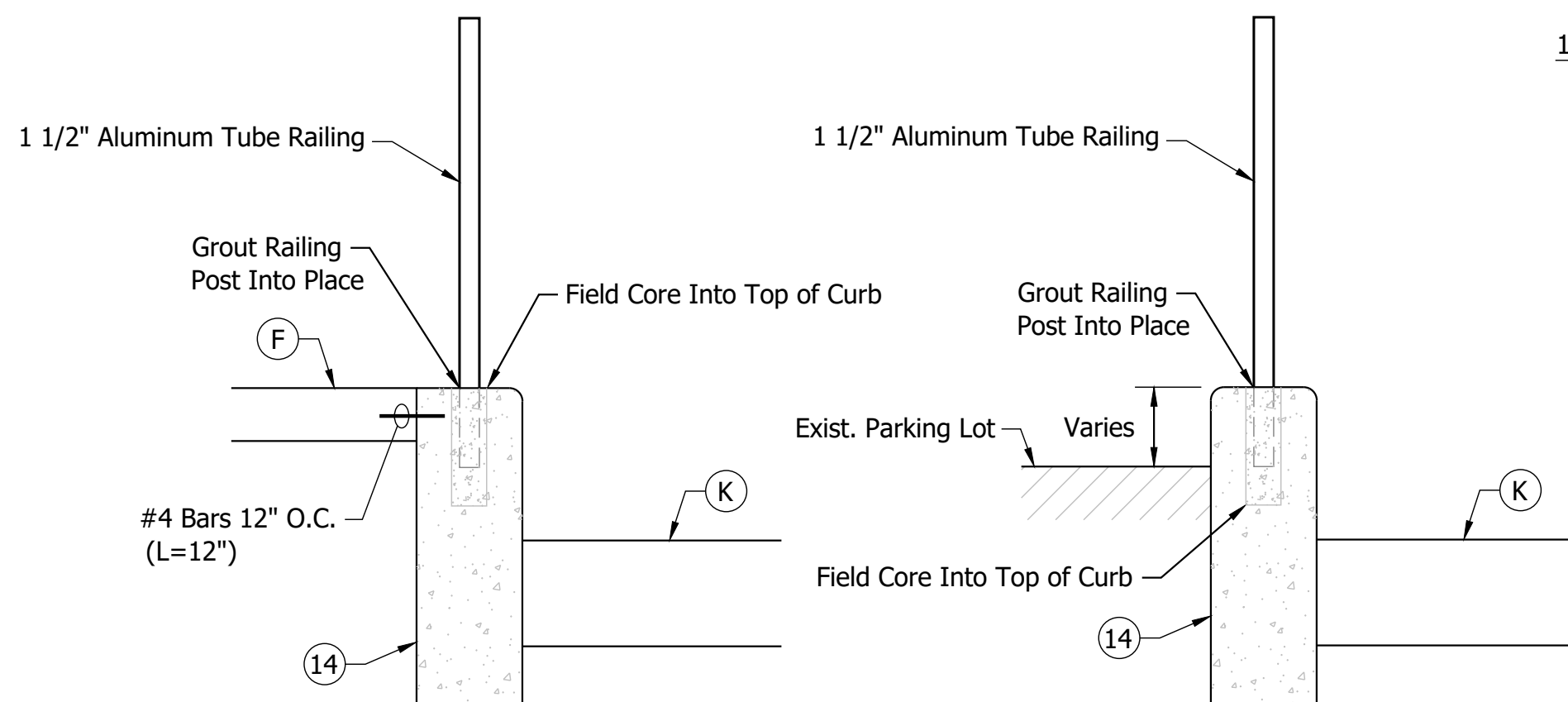
Expansion Joint Note:
Field drilled 5/8" ϕ hole in concrete. Embed bar 6 inches with an approved anchor system.
Minimum pullout = 15 kips.



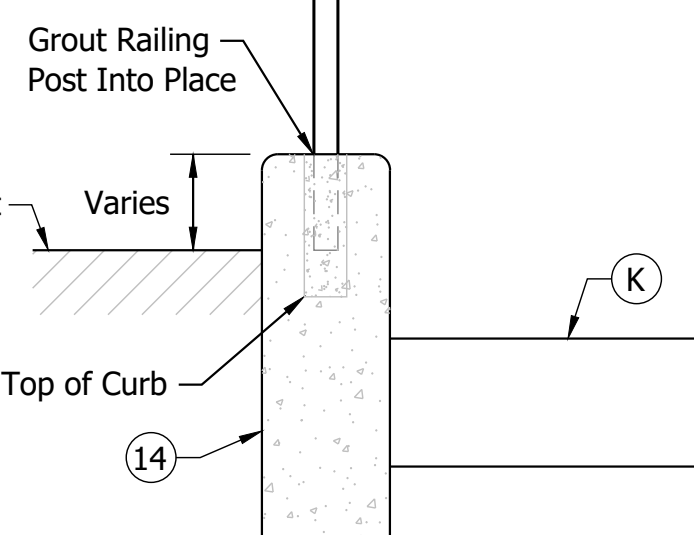
Curb Details Along Parking Lot
Scale: 1"=1'
Sta. 145+23.63 to Sta. 145+52.00



Step Details
Scale: 1"=3'

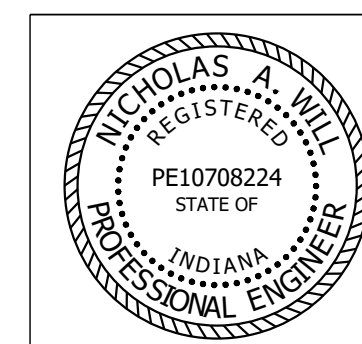


Curb Details Along Sidewalk
Scale: 1"=1'
Sta. 145+03.63 to Sta. 145+09.50



Curb Details Along Parking Lot
Scale: 1"=1'
Sta. 145+09.50 to Sta. 145+23.63

- LEGEND
- (F) Sidewalk, Concrete, 4"
 - (K) Multi-Use Trail
4" PCCP w/ Joints @ 8 Ft. Spacing on
4" Compacted Aggregate, No. 53 on
Subgrade Treatment Type V
 - (14) Curb, Concrete, Modified
 - (26) Sodding, Nursery

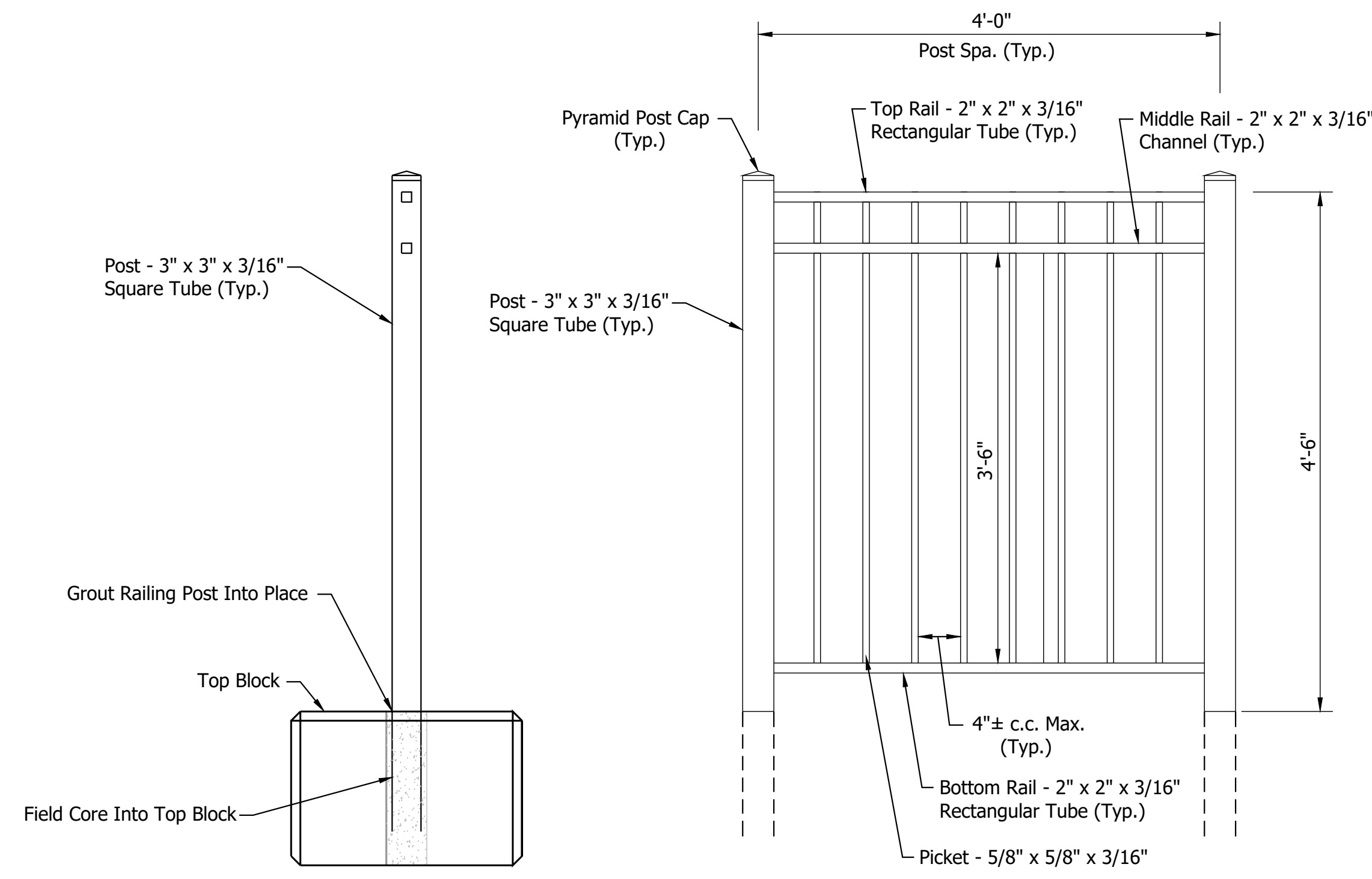


RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	12/27/2021	DATE
DESIGNED:	JAF	DRAWN:	DAG
CHECKED:	NAW	CHECKED:	JAF

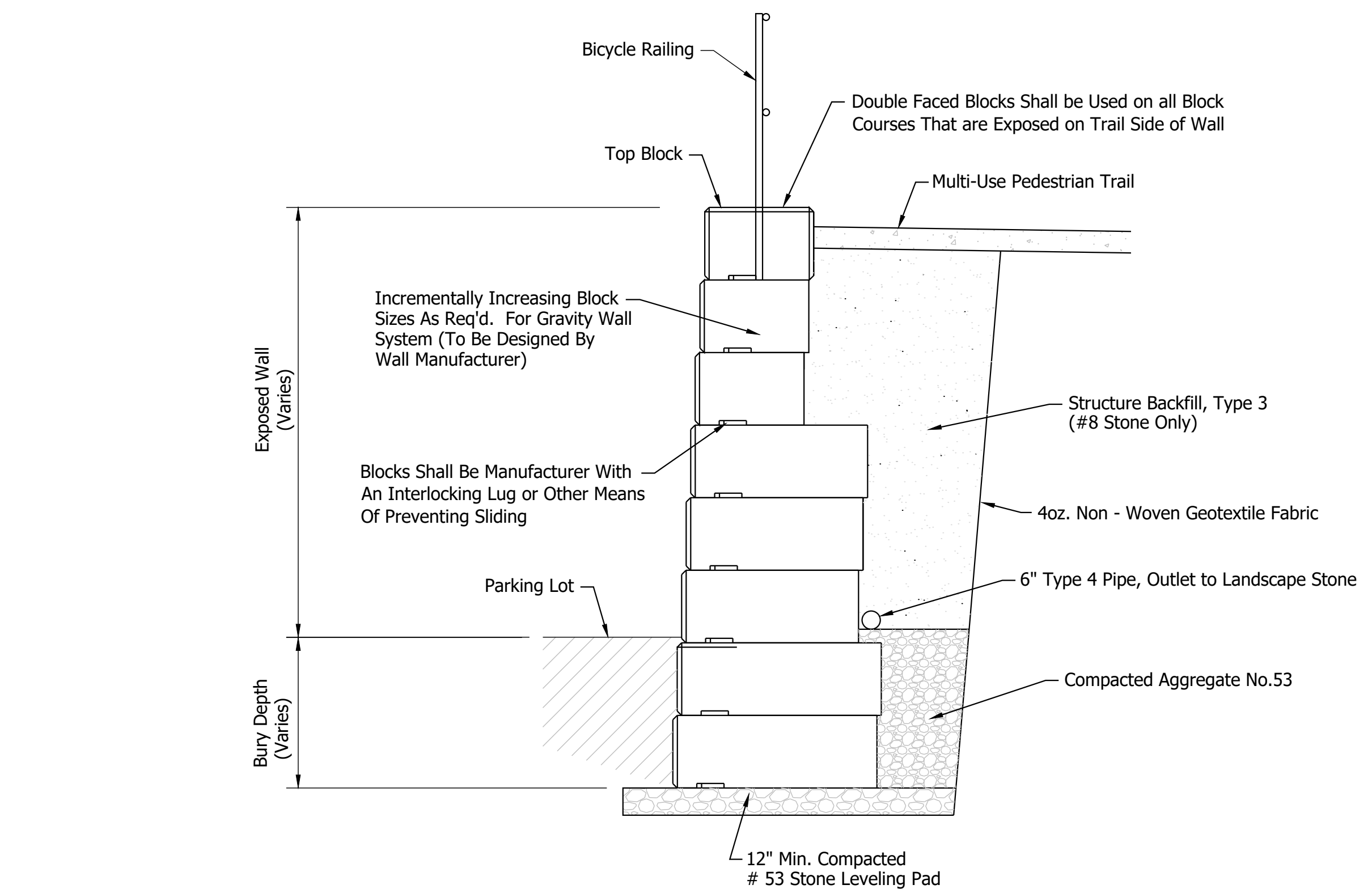
17th STREET MULTI-USE PATH CONSTRUCTION PLANS	
CITY OF BLOOMINGTON, INDIANA	
STEP DETAILS	

HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	N/A
VERTICAL SCALE	DESIGNATION
---	N/A
SURVEY BOOK	SHEETS
	41 of 56
CONTRACT	PROJECT

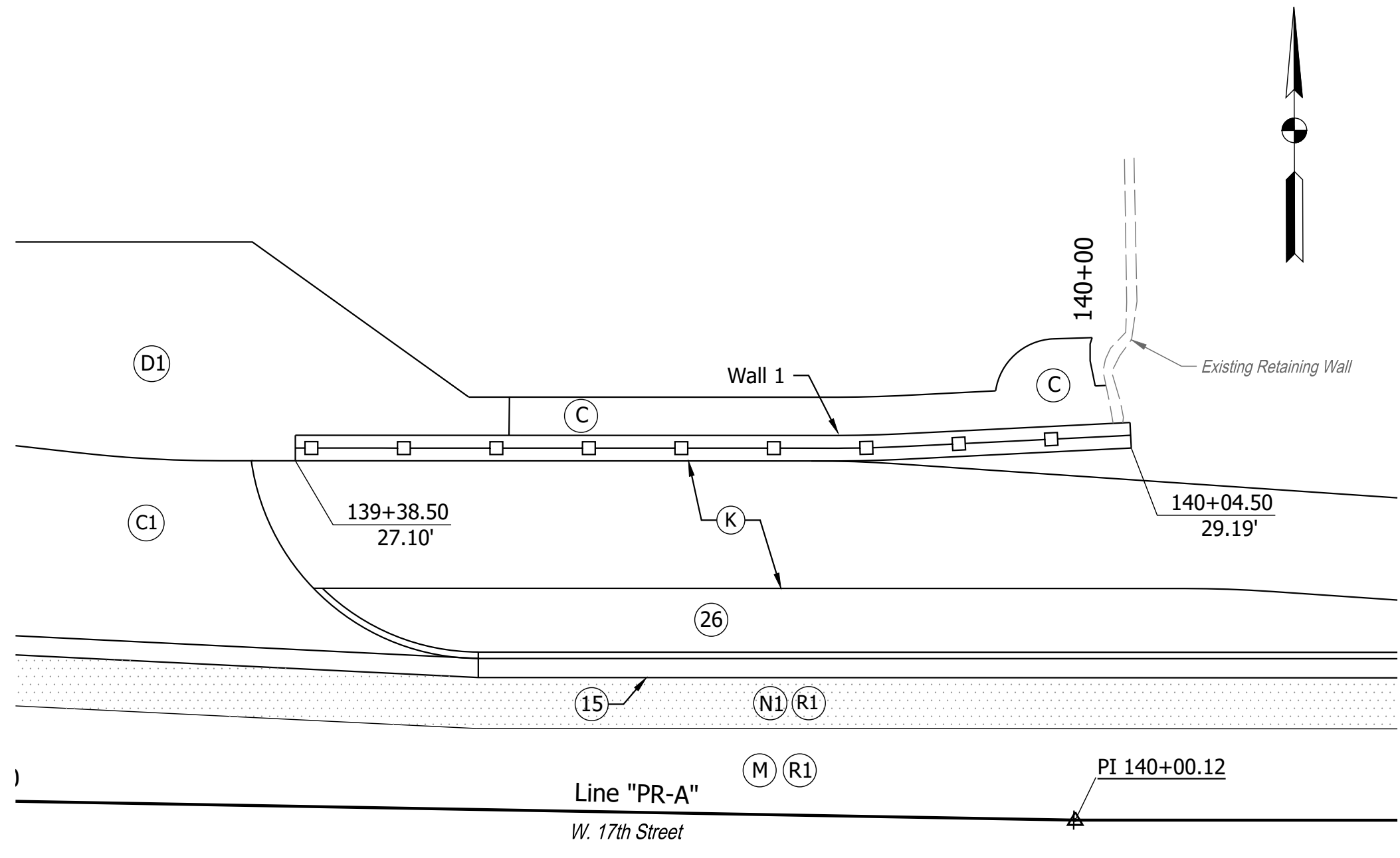
Note:
All Stationing off Line "PR-A" Unless Otherwise Noted.
All Reinforcing Steel to be Epoxy Coated.



BICYCLE RAILING DETAIL 54"
Scale: 1"=1'

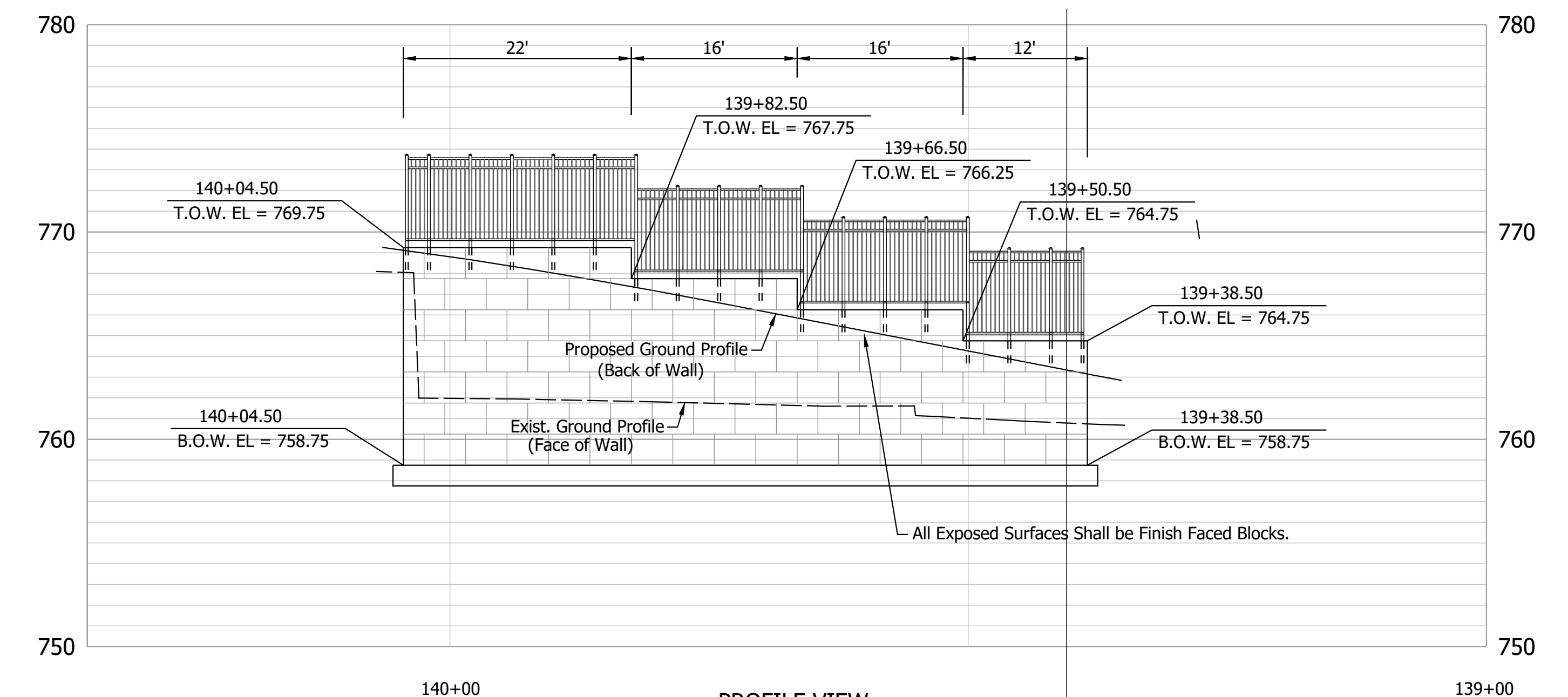


TYPICAL SECTION-GRAVITY WALL
Scale: 1"=2'



PLAN VIEW
Horizontal Scale: 1"=10'

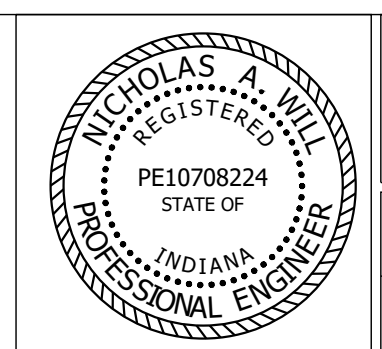
- LEGEND**
- (C) PCCP For Approaches, 6" Mod. on Dense Graded Subbase, on Subgrade Treatment Type II
 - (C1) PCCP For Approaches, 9" on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
 - (D1) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB on
 - (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
 - (M) Milling, Asphalt, 1.5"
 - (N1) HMA for Patching, Type B 275#/SYS HMA Type B, Intermediate on 330#/SYS HMA Type B, Base on 3" Aggregated No. 53 Subgrade Treatment Type IV
 - (R1) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
 - (15) Curb & Gutter, Concrete, Modified
 - (26) Sodding, Nursery



PROFILE VIEW
Horizontal Scale: 1"=10'
Vertical Scale: 1"=5'

Note:
All Stationing off Line "PR-A" Unless Otherwise Noted.

Date: Mar 11, 2022, 4:26pm User Name: T Lyons File: S:_2019\119-0055\Road_East Phase\CAD\Misc\DWG\Wall & Step Details.dwg

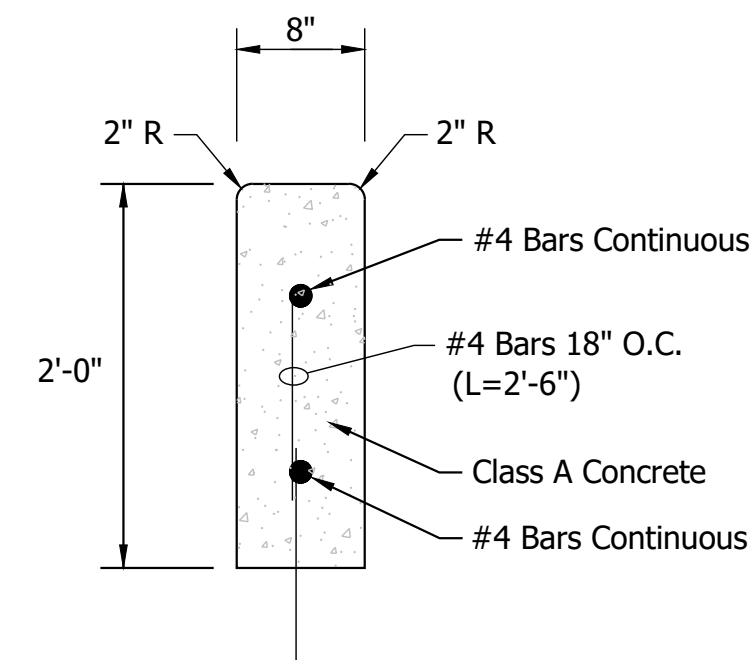


RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	12/27/2021
	DESIGN ENGINEER	DATE
DESIGNED:	JAF	DRAWN: DAG
CHECKED:	NAW	CHECKED: JAF

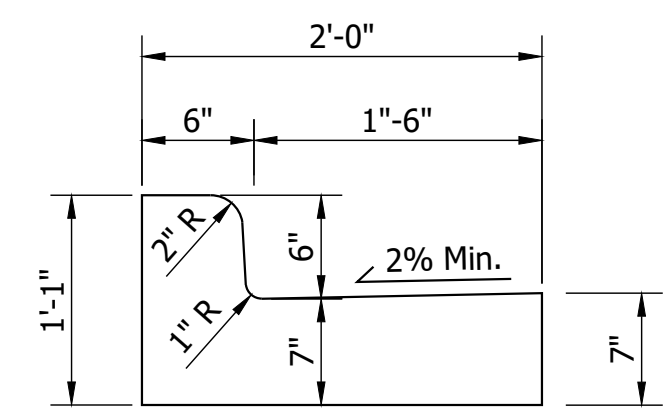
17th STREET MULTI-USE PATH CONSTRUCTION PLANS
CITY OF BLOOMINGTON, INDIANA

WALL 1 DETAILS

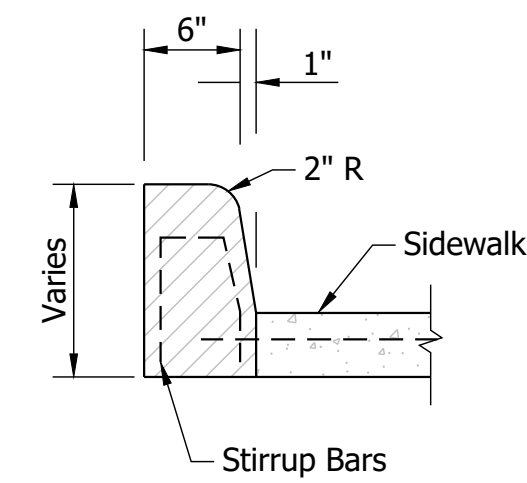
HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	N/A
VERTICAL SCALE	DESIGNATION
---	N/A
SURVEY BOOK	SHEETS
	42 of 56
CONTRACT	PROJECT



Curb, Concrete, Modified (14)
Scale: 1"=1'

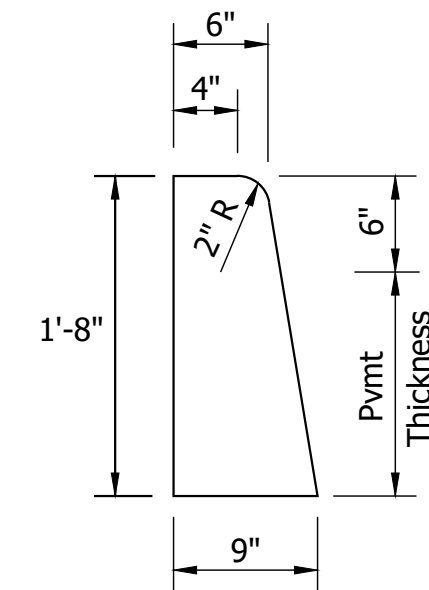


Curb & Gutter, Concrete, Modified (15)
Scale: 1"=1'

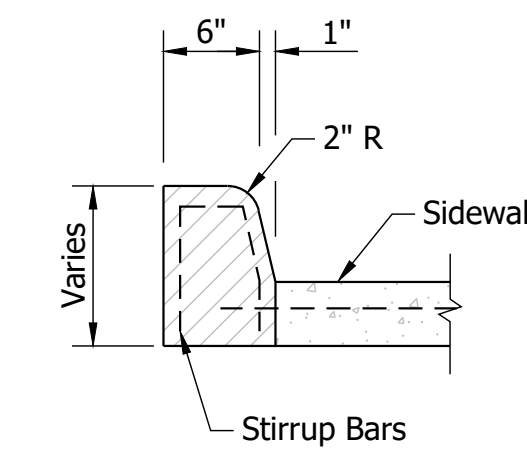


Integral Concrete Curb, Modified (16)
Scale: 1"=1'

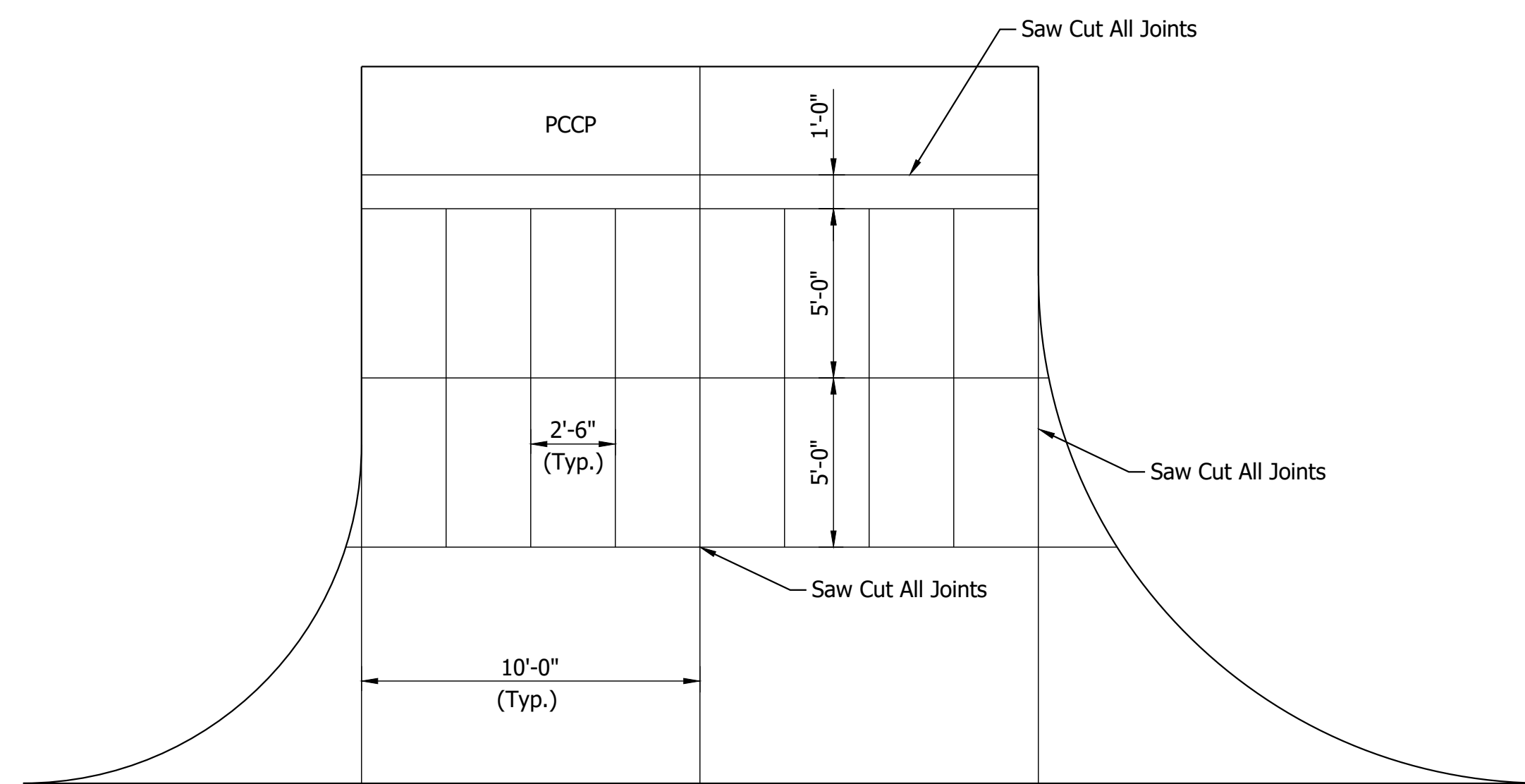
*SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION



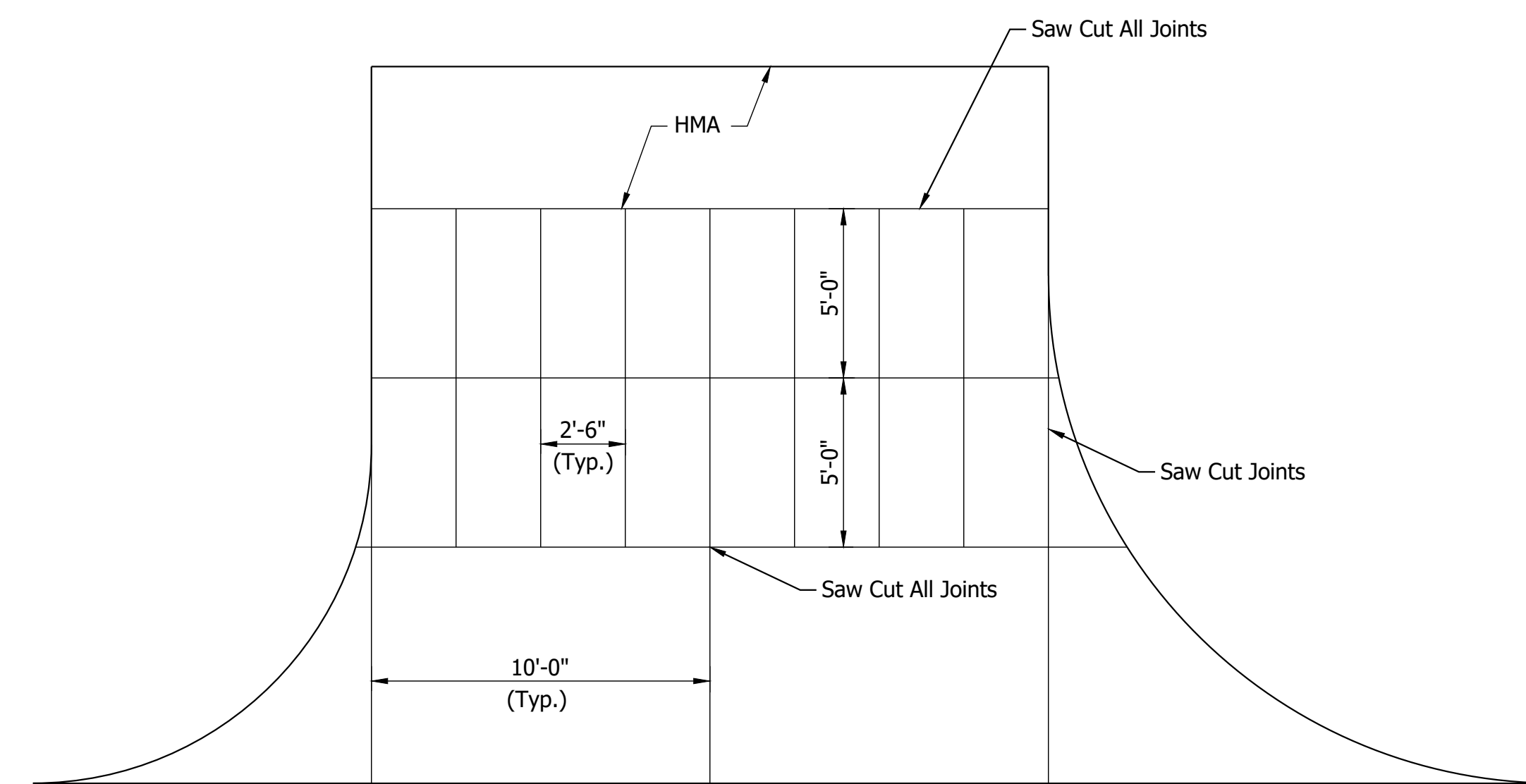
Curb, Concrete (17)
Scale: 1"=1'



Integral Concrete Curb (18)
Scale: 1"=1'

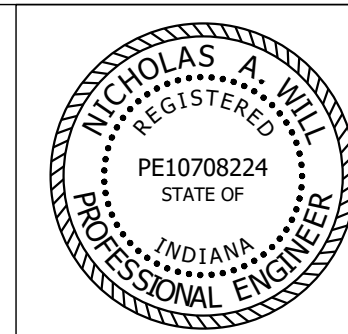


Drive Jointing Detail Concrete
Scale: 1"=4'



Drive Jointing Detail Asphalt
Scale: 1"=4'

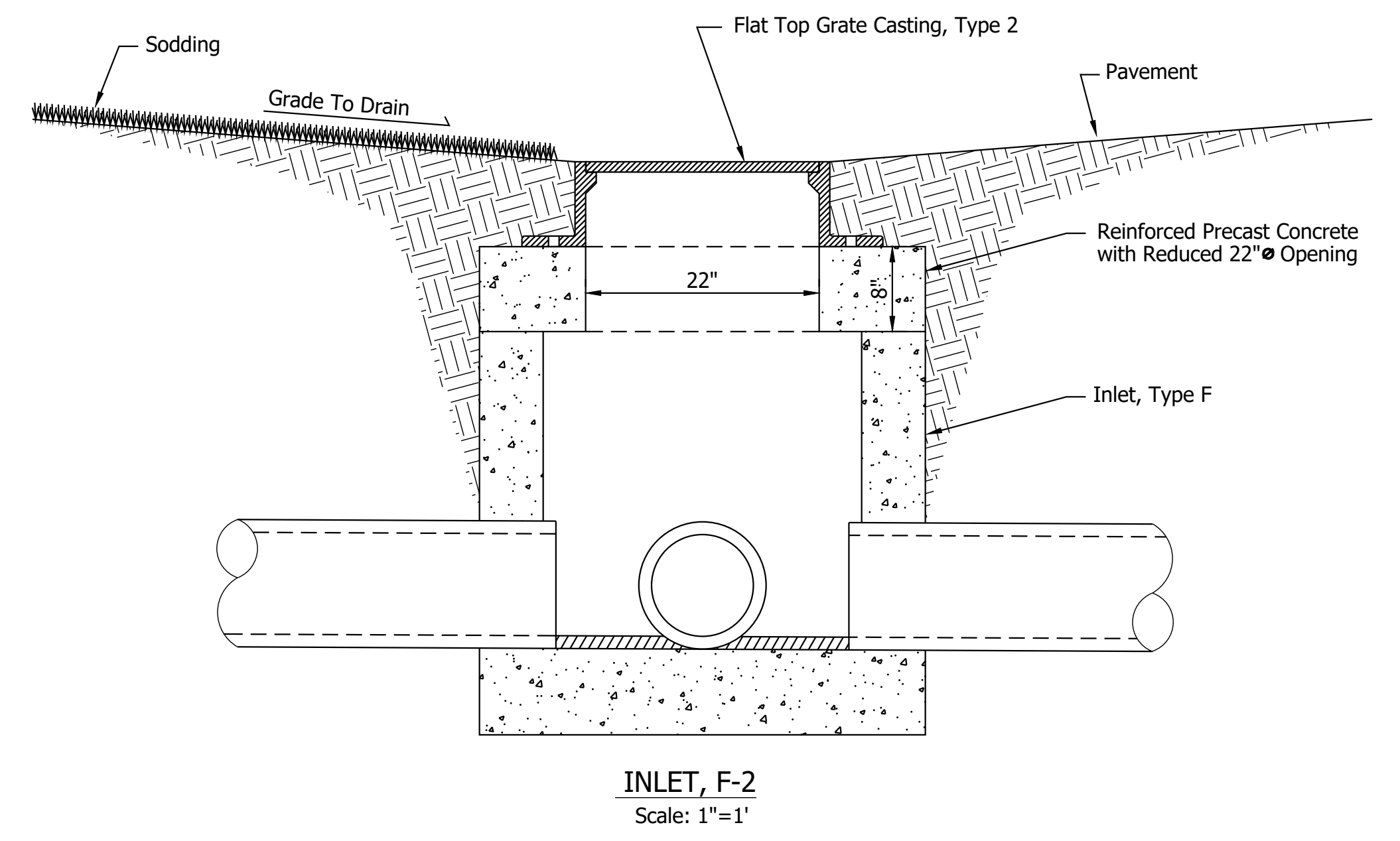
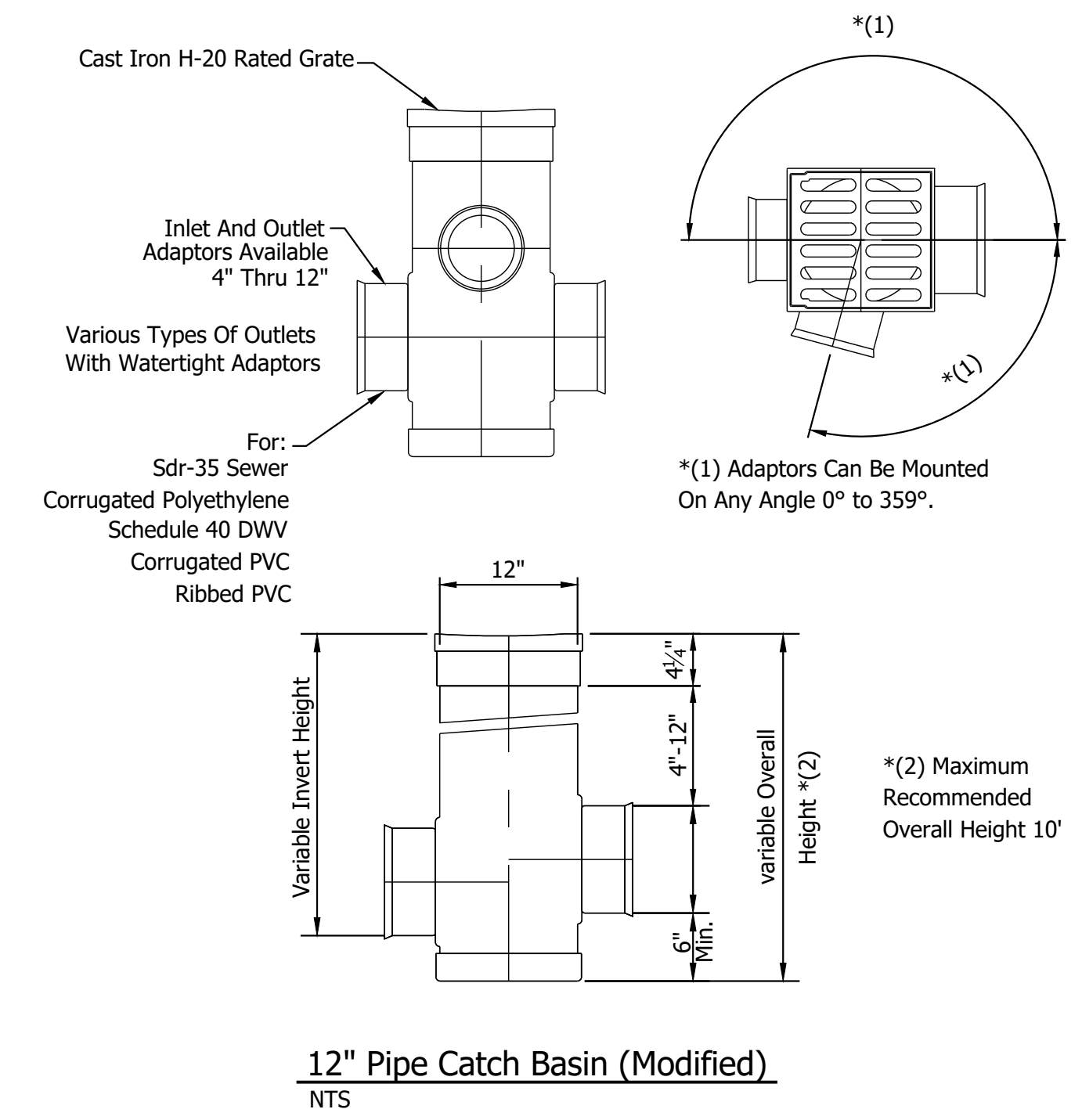
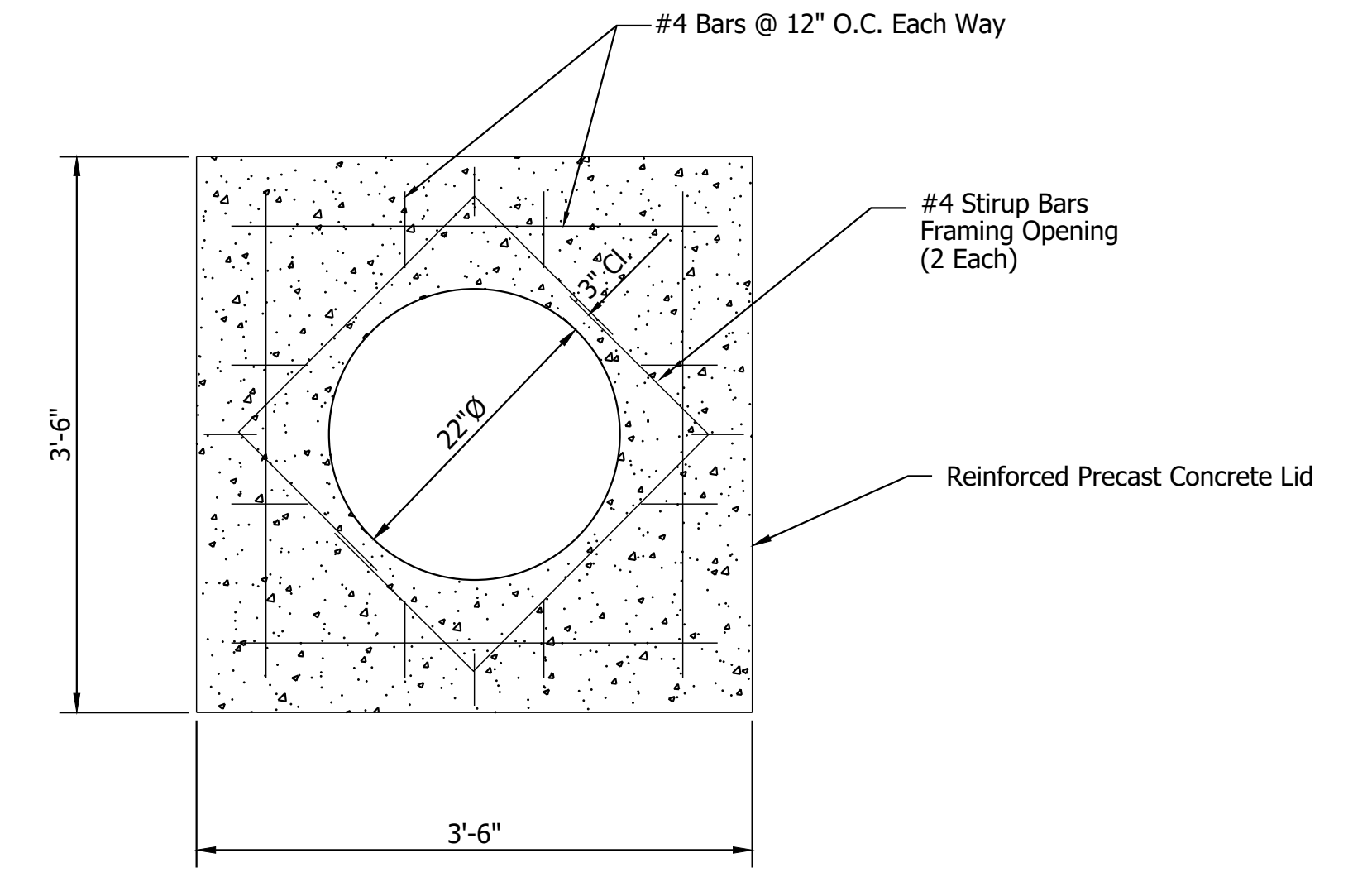
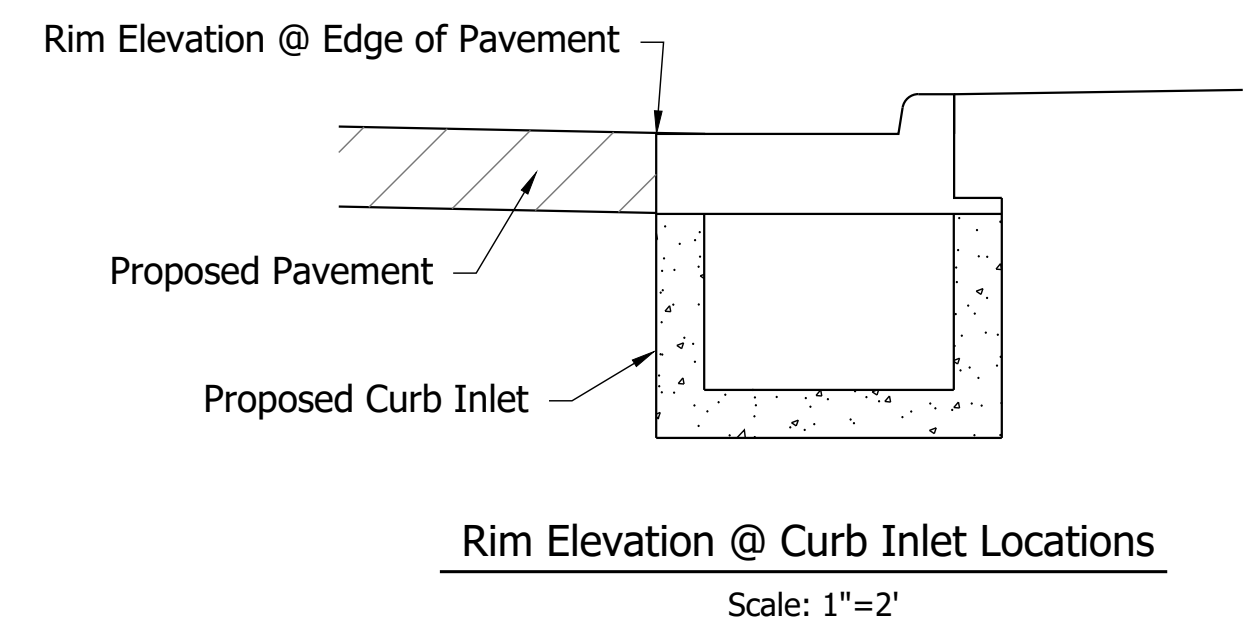
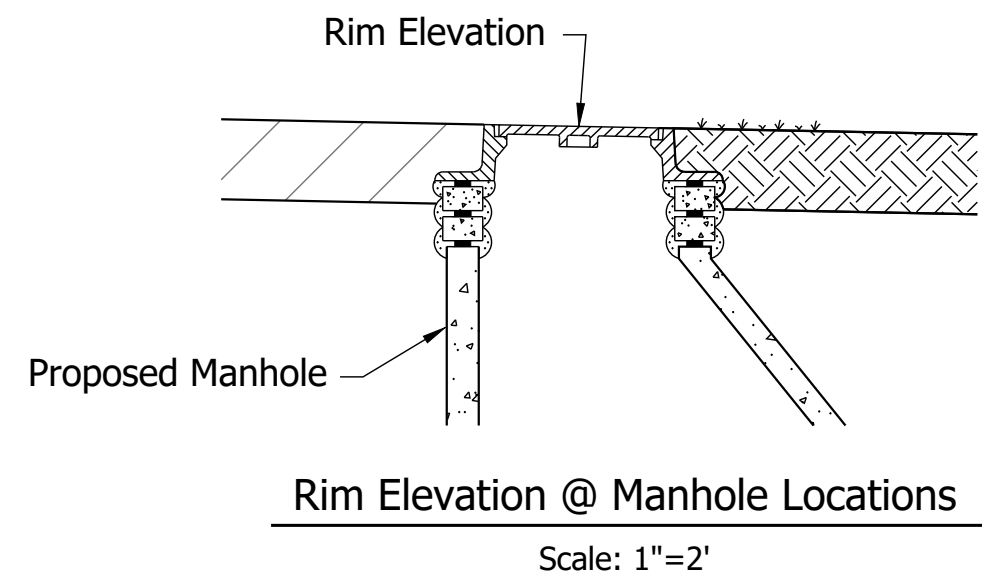
Date: Mar 11, 2022, 4:27pm User Name: T Lyons
File: S:_2019\119-0055\Road_East Phase\CAD\MiscDWG\Misc_Details.dwg



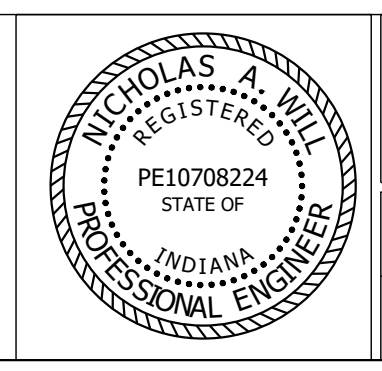
RECOMMENDED FOR APPROVAL
Nicholas A. Will
 DESIGN ENGINEER 12/27/2021
 DATE
 DESIGNED: JAF DRAWN: DAG
 CHECKED: NAW CHECKED: JAF

17th STREET MULTI-USE PATH
 CONSTRUCTION PLANS
 CITY OF BLOOMINGTON, INDIANA
 MISCELLANEOUS DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	N/A
VERTICAL SCALE	DESIGNATION
---	N/A
SURVEY BOOK	SHEETS
	43 of 56
CONTRACT	PROJECT
-	---



Date: Mar 11, 2022, 4:27pm User Name: T Lyons
File: S:_2019\119-0055\Road_East Phase\CAD\MiscDWG\Misc_Details.dwg



RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	12/27/2021
	DESIGN ENGINEER	DATE
DESIGNED:	JAF	DRAWN: DAG
CHECKED:	NAW	CHECKED: JAF

17th STREET MULTI-USE PATH
CONSTRUCTION PLANS
CITY OF BLOOMINGTON, INDIANA

STRUCTURE DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	N/A
VERTICAL SCALE	DESIGNATION
---	N/A
SURVEY BOOK	SHEETS
	44 of 56
CONTRACT	PROJECT

PCCP TRAIL					
FROM STATION	TO STATION	LEFT RIGHT	4" PCCP		SUBGRADE TREATMENT, TYPE V
			SYS	CYS	
Line "PR-A"					
138+70	147+90	X	549.6	553.6	776.0
TOTAL			550	554	776

SIDEWALK TABLE			
LOCATION	LEFT RIGHT	SIDEWALK, CONCRETE, 4 IN.	COMPACTED AGGREGATE, NO 53
Line "PR-A"			
Sta. 138+70 to Sta. 147+90	X	125.1	13.9
Lead-In Walk			
Sta. 140+40.00	X	0.5	0.1
Sta. 142+05.00	X	4.1	0.5
Sta. 143+15.00	X	2.2	0.3
TOTAL		132	15

SODDING, NURSERY			
FROM STATION	TO STATION	LEFT RIGHT	FOR LAWN
Line "PR-A"			
138+70.00	147+90.50	X	455.6
138+70.00	147+90.50	X	97.1
TOTAL			553

CONCRETE CURBS						
FROM STATION	TO STATION	LEFT RIGHT	CURB AND GUTTER, CONCRETE, MODIFIED	CURB, CONCRETE	CURB, CONCRETE, MODIFIED	CURB, INTEGRAL CONCRETE
Line "PR-A"						
138+70.00	147+90.50	X	459.0	63.5	52.6	9.3
138+70.00	143+00.00	X	115.7	29.6		71.5
143+00.00	147+90.50	X	59.4	81.3		133.7
TOTAL			635	175	53	215

CURB RAMPS				
LOCATION	LEFT MEDIAN RIGHT	CONCRETE CURB RAMP, 9"	COMPACTED AGGREGATE, NO 53	DETECTABLE WARNING SURFACES
Line "PR-A"				
N. Walnut St.	X	35.8	4.0	4.0
N. Walnut St.	X	15.3	1.7	1.9
N. Washington St.	X	11.2	1.3	1.8
N. Washington St.	X	9.8	1.1	1.7
N. Lincoln St.	X	12.5	1.4	2.7
N. Lincoln St.	X	8.1	0.9	1.9
N. Lincoln St.	X	12.6	1.4	2.4
TOTAL		106	12	17

PLANT, DECIDUOUS TREE, SINGLE STEM, OVER 2 IN. TO 2.5 IN.			
LINE	STATION	LOCATION	EACH
Line "PR-A"			
	141+42	28.0' Lt.	1
	142+65	16.5' Lt.	1
	143+05	16.5' Lt.	1
	143+45	16.5' Lt.	1
TOTAL			4

CURB, CONCRETE, MODIFIED				
LOCATION	LOCATION	LEFT RIGHT	CLASS A CONCRETE	REINFORCED STEEL
Line "PR-A"				
145+03.63	145+52.00	X	2.5	160
TOTAL			3	160

STRUCTURE BACKFILL, TYPE 5	
STRUCTURE SIZE (IN)	VOLUME (CYS)
12"	18.9
*To Fill Existing Pipe	
TOTAL	19

STEP TABLE											
LOCATION	LOCATION	LEFT RIGHT	NUMBER OF RISERS	R	T	WIDTH	STEP, CONCRETE	CLASS A CONCRETE	HAND RAIL ALUMINUM	REINFORCED STEEL	
				IN.	IN.	FT.	CYS	CYS	LFT	LBS	
Line "PR-A"											
143+66.65	143+71.63	X	2	7.25	12.0	5.0	0.6	-	-	36.0	
144+95.52	144+99.52	X	-	-	-	-	-	0.7	-	-	
144+99.52	145+03.63	X	3	7.25	12.0	5.0	0.7	-	4.0	41.0	
145+03.63	145+52.00	X	-	-	-	-	-	2.5	24.0	-	
TOTAL							2	3.2	28	77	

B-BORROW	
STRUCTURE SIZE (IN)	VOLUME (CYS)
24"	105.7
21"	231.9
18"	327.8
TOTAL	666

CONCRETE STEPS, REMOVE		
STATION	LOCATION	EACH
Line "PR-A"		
143+69	Rt.	1
TOTAL		1

RETAINING WALL, REMOVE		
STATION	LOCATION	Length (FT)
Line "PR-A"		
139+90.00	Lt.	45
TOTAL		45

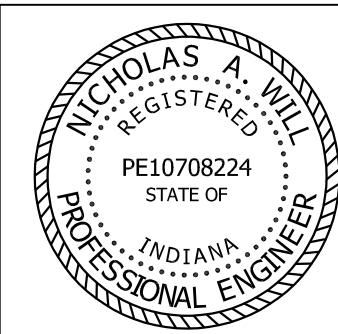
RETAINING WALL QUANTITIES										
FROM STATION	LEFT RIGHT	MODULAR BLOCK WALL	MODULAR BLOCK WALL ERECTION	PIPE, TYPE 4, CIRCULAR, 6"	PIPE, UNDERDRAIN OUTLET, 6"	STRUCTURE BACKFILL, TYPE 3	COMPACTED AGGREGATE NO. 53 (LEVELING PAD)	CLASS A CONCRETE	BICYCLE RAILING	COMMON EXCAVATION
Line "PR-A"										
Wall 1	X	568.0	568.0	76.0	20.0	55.0	54.0	0.8	66.0	109.0
TOTAL		568	568	76	20	55	54	1	66	109

CURB, CONCRETE, REMOVE			
STATION	STATION	LOCATION	LENGTH (FT)
Line "PR-A"			
138+70	142+28	Rt.	135
		Lt.	349
142+28	145+85	Rt.	216
		Lt.	447
145+85	147+89	Rt.	70
		Lt.	237
TOTAL			1454

SIDEWALK CONCRETE, REMOVE			
STATION	STATION	LOCATION	LENGTH (FT)
Line "PR-A"			
138+70	142+28	Rt.	49.3
		Lt.	133.9
142+28	145+85	Rt.	76.1
		Lt.	187.4
145+85	147+89	Rt.	26.1
		Lt.	66.2
TOTAL			540

PIPE, REMOVE			
STATION	STATION	LOCATION	LENGTH (FT)
Line "PR-A"			
138+90.00	139+94.00	Lt.	103
139+94.00	140+02.00	Lt.	8
139+94.00	142+16.00	Lt.	221
140+88.62	140+89.62	Lt.	4
142+15.00	142+16.00	Lt.	4
142+16.00	145+59.80	Lt.	343
142+54.00	142+55.00	Lt.	3
143+52.80	143+53.80	Lt.	5
144+52.68	144+53.68	Lt.	5
TOTAL			696

Date: Mar 19, 2022, 2:13pm User Name: Mick File: S:_2019\119-0055\Road_East Phase\CAD\Misc\DWG\Misc Tables.dwg



RECOMMENDED FOR APPROVAL *Nicholas A. Will* 12/27/2021
DESIGN ENGINEER DATE

DESIGNED: JAF DRAWN: DAG
CHECKED: NAW CHECKED: JAF

17th STREET MULTI-USE PATH
CONSTRUCTION PLANS
CITY OF BLOOMINGTON, INDIANA

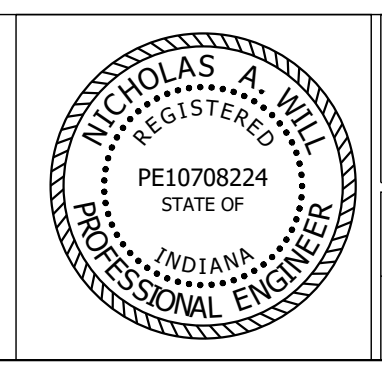
MISC TABLES

HORIZONTAL SCALE	BRIDGE FILE
---	N/A
VERTICAL SCALE	DESIGNATION
---	N/A
SURVEY BOOK	SHEET
	45 of 56
CONTRACT	PROJECT
-	-

PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH "W"	LENGTH "L"	RADII "R"	GRADE (LESS THAN 10% NOT SHOWN)	EXCAVATION		QC/QA HMA	HMA FOR PATCHING		HMA FOR APPROACHES				PCCP FOR APPROACHES	PCCP FOR APPROACHES	PCC BASE PATCHING	COMPACTED AGG NO. 53	COMPACTED AGG NO. 53	DENSE GRADED SUB-BASE	COMPACTED AGG No. 53	GEOGRID, TYPE IB	SUBGRADE TREATMENT, TYPE II	SUBGRADE TREATMENT, TYPE IV	HMA WEDGE AND LEVEL, TYPE B	MILLING, ASPHALT, 1.5"	ASPHALT FOR TACK COAT	JOINT ADHESIVE SURFACE	JOINT ADHESIVE INTERMEDIATE	LIQUID ASPHALT SEALANT	REMARKS			
								3, 64	INTER.	BASE	SURFACE	INTER.	BASE	BASE																				
								SURFACE	TYPE B		TYPE B																							
								LBS/SYS	LBS/SYS		LBS/SYS																							
CYS	165	275	330	165	275	330	660	6"	9"	7"	3"	6"	6"	10"																				
FT	FT	FT	%	CUT	FILL	TONS	TONS	TONS	TONS	TONS	TONS	TONS	SYS	SYS	SYS	CYS	CYS	CYS	TONS	SYS	SYS	SYS	TON	SYS	TONS	LFT	LFT	LFT						
MAINLINE								(R)(R1)	(N1)	(N1)	(D)(D1)(D2)	(D)(D1)(D2)	(D2)	(D1)	(C)	(C1)	(N)	(D2)(N) (N1)	(D)	(C)(C1)	(O)	(C1) (D1)	(C)(D) (C1)(D1)	(D2)(N) (N1)	(R1)	(M)								
Line "PR-A"																																		
138+70.00 TO 147+90.50			920.5					195.3	53	64						51.0	35.8						431.3	45.8	1996	1.50	2762.0	2762.0	2762.0					
APPROACHES																																		
N. Walnut Street Lt.	Mill and Overlay	Varies	38.0	15				6.8																		72	0.10							
N. Walnut Street Rt.	Mill and Overlay	Varies	44.0	20.5				9.3																		93	0.10							
N. Washington Street Rt.	Mill and Overlay	Varies	18.0	7/9				5.1																		45	0.10							
N. Lincoln Street Lt.	Mill and Overlay	Varies	23.3	20/20				6.3																		73	0.10							
N. Lincoln Street Rt.	Mill and Overlay	Varies	18.0	13.5/12				5.3																		55	0.10							
DRIVES																																		
Line "PR-A"																																		
139+24.0 Lt.	Class III (Mod.)	23.0	16.0	5/18							9.9	16.6		39.7	18.4	53.9				15.2		174.4	211.4											Modified by radius and jointing
139+50.0 Rt.	Class III (Mod.)	25.4	21.5	15/11							3.5	5.8		14		32.3			5.5		74.8	74.8												Modified by radius
140+30.0 Rt.	Public Rd Approach (Alley)	10.0	7.0	20.8/10.5							1.0	1.6		3.9		20.0			3.4		31.8	31.8												Modified by radius and jointing
140+63.0 Lt.	Class III (Mod.)	27.0	21.0	20/20												63.4			10.6		63.4	63.4												Modified by radius and jointing
141+69.0 Lt.	Class III (Mod.)	20.0	19.0	9.5/15							2.1	3.5		8.4		55.8			9.4		81.4	81.4												Modified by radius and jointing
143+88.0 Rt.	Public Rd Approach (Alley)	12.4	7.0	12/10							1.4	2.3		5.5		17.9			3.0		34.7	34.7												Modified by radius
143+96.0 Lt.	Class III (Mod.)	24.5	19.0	15/15												81.8			13.7		81.9	81.9												Modified by radius and jointing
144+28.0 Rt.	Class III (Mod.)	24.0	25.5	10/10												77.7			13.0		77.7	77.7												Modified by radius
144+61.0 Lt.	Class III (Mod.)	40.0	17.0	15/15												60.3			10.1		60.4	60.4												Modified by radius and jointing
145+00.0 Rt.	Class I (Mod.)	13.5	15.0	10/10										30.3					5.1		30.4	30.4												Modified by radius
147+67.0 Rt.	Public Rd Approach (Alley)	10.0	5.5	12/5							1.7	2.8		6.7		12.1			2.1		32.6	32.6												Modified by radius and jointing
PROJECT TOTALS:								229.0	53.0	64.0	19.6	32.6	0.0	78.2	48.7	475.2	51.0	35.8	0.0	91.1	0.0	713.1	780.5	431.3	45.8	2334.0	2.0	2762.0	2762.0	2762.0				

Date: Mar 11, 2022, 4:29pm User Name: T Lyons File: S:_2019\119-0055\Road_East Phase\CAD\MiscDWG\Approach Table.dwg



RECOMMENDED FOR APPROVAL *Nicholas A. Will* 12/27/2021
DESIGN ENGINEER DATE

DESIGNED: JAF DRAWN: DAG
CHECKED: NAW CHECKED: JAF

**17th STREET MULTI-USE PATH
CONSTRUCTION PLANS**
CITY OF BLOOMINGTON, INDIANA

APPROACH TABLE

HORIZONTAL SCALE	BRIDGE FILE
No Scale	N/A
VERTICAL SCALE	DESIGNATION
-	N/A
SURVEY BOOK	SHEET
	46 of 56
CONTRACT	PROJECT
-	- - -

Date: Mar 11, 2022, 4:30pm User Name: T Lyons
 File: S:\1_2019\119-0053\Road_East_Phase\CAD\Misc\DWG\Pipe Material Table.dwg

		STRUCTURE NUMBER	51	53	54	55	57	58	59	60	61	62	63	65	66			
INT. DES.	PIPE TYPE / SHAPE (CIR or DEF)	2/Cir.	2/Cir.	2/Cir.	2/Cir.	2/Cir.	2/Cir.	2/Cir.	2/Cir.	2/Cir.	2/Cir.	2/Cir.	2/Cir.	2/Cir.	2/Cir.			
	SMOOTH PIPE SIZE	12"	12"	12"	24"	24"	21"	21"	12"	18"	18"	18"	18"	18"				
	CORRUGATED PIPE SIZE																	
	SEMI-SMOOTH PIPE SIZE																	
CONC.	RCP/RCHEP (S)	CLASS	II	II	II	II	II	II	II	II	II	II	II	II	II			
		D 0.01 RATING	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
PLASTIC PIPE	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)							OK	OK				OK	OK	OK			
	CORRUGATED PE PIPE, TYPE S (S)*																	
	PROFILE WALL (RIBBED) PE PIPE (S)*																	
	PROFILE WALL (CLOSED) PE PIPE (S)*																	
	SMOOTH WALL PE PIPE (S)* / MAXIMUM DR													OK/26	OK/26	OK/26		
	CORRUGATED PP PIPE (S)													OK	OK	OK		
CLAY	VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)							OK	OK		OK		OK	OK	OK			
	FULLY BIT. PAVED & LINED (S)		CORR.PROFILE															
CORRUGATED STEEL PIPE / PIPE-ARCH	ZINC COATED (C)		THICKNESS															
			CORR.PROFILE															
			THICKNESS															
	ZINC COATED W/ BPI (C)		CORR.PROFILE															
			THICKNESS															
	ALUM. COATED TYPE 2 (C)		CORR.PROFILE															
			THICKNESS															
	ALUM. COATED TYPE 2 W/ BPI (C)		CORR.PROFILE															
			THICKNESS															
	POLYMER PRECOATED GALVANIZED (C)		CORR.PROFILE															
			THICKNESS															
	POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)		CORR.PROFILE															
		THICKNESS																
COR. ALUM. PIPE / P-ARCH	CORRUGATED ALUM. ALLOY (C)		CORR.PROFILE															
			THICKNESS															
CORRUGATED ALUM. ALLOY W/ BPI (C)		CORR.PROFILE																
		THICKNESS																
SPIRAL RIB STEEL PIPE	ZINC COATED (SS)		CORR.PROFILE															
			THICKNESS															
	ALUM. COATED TYPE 2 (C)		CORR.PROFILE															
			THICKNESS															
ALUM. COATED TYPE 2 W/ BPI (C)		CORR.PROFILE																
		THICKNESS																
POLYMER PRECOATED GALVANIZED (C)		CORR.PROFILE																
		THICKNESS																
STRUCTURAL PLATE PIPE / PIPE-ARCH	STR. PLATE ALUMINUM ALLOY (C)		CORR.PROFILE															
			THICKNESS															
	STR. PLATE ALUMINUM ALLOY W/ CFP (C)		CORR.PROFILE															
			THICKNESS															
STR. PLATE STEEL (C)		CORR.PROFILE																
		THICKNESS																
STR. PLATE STEEL W/ CFP (C)		CORR.PROFILE																
		THICKNESS																

LEGEND

PIPE MATERIAL

- RCP Reinforced Concrete Pipe
- RCHEP Reinforced Concrete Horizontal Elliptical Pipe
- PE Polyethylene
- DR Dimension Ratio
- PVC Polyvinyl Chloride
- PP Polypropylene
- CORR Corrugation
- ALUM Aluminum
- STR Structural
- (LS) Lock Seam Pipe Required

PIPE PROTECTION

- BPI Bituminous Paved Invert
- CFP Concrete Field Paving
- BIT Bituminous

SHAPE

- CIR Circular Pipe
- DEF Deformed Pipe

INTERIOR PROTECTION

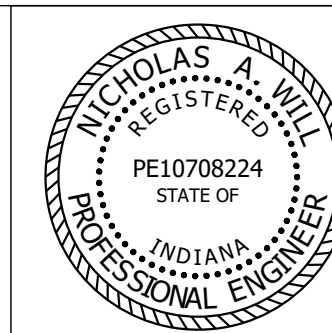
- (S) Smooth Pipe Material
- (C) Corrugated Pipe Material
- (SS) Semi-Smooth Pipe Material

PIPE SIZE

Circular pipe is shown as diameter in inches
 Deformed pipe is shown as area in square feet

* Refer to Standard Drawings 715-PHCL-20 through -22 for nominal diameter appropriate for pay item diameter.

** Tabulated thickness refers to top and side plates. For pipes and pipe-arches with a thickness less than .280 in., bottom plates shall be of next greater available thickness.



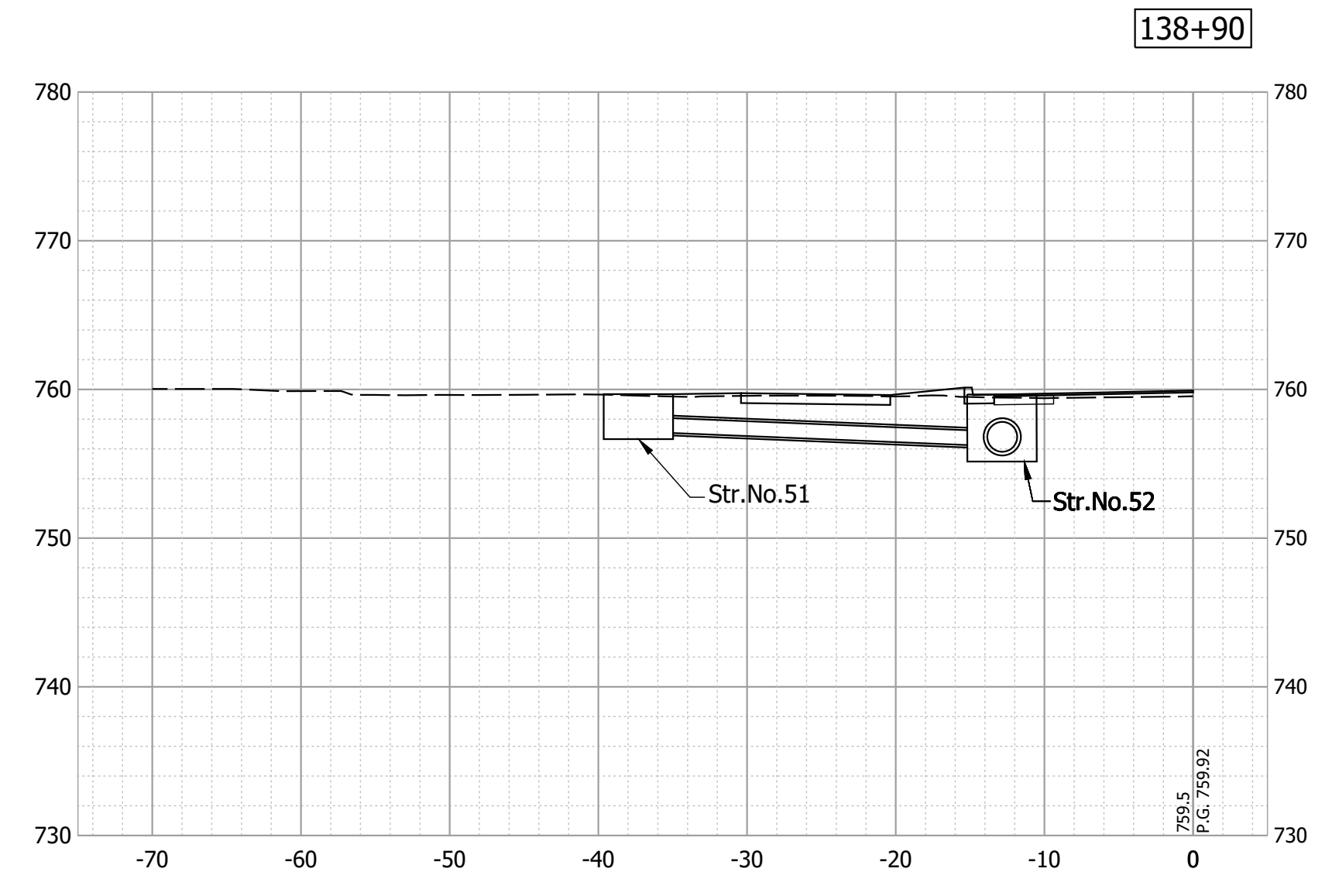
RECOMMENDED FOR APPROVAL *Nicholas A. Will* 12/27/2021
 DESIGN ENGINEER DATE

DESIGNED: JAF DRAWN: DAG
 CHECKED: NAW CHECKED: JAF

17th STREET MULTI-USE PATH
 CONSTRUCTION PLANS
 CITY OF BLOOMINGTON, INDIANA

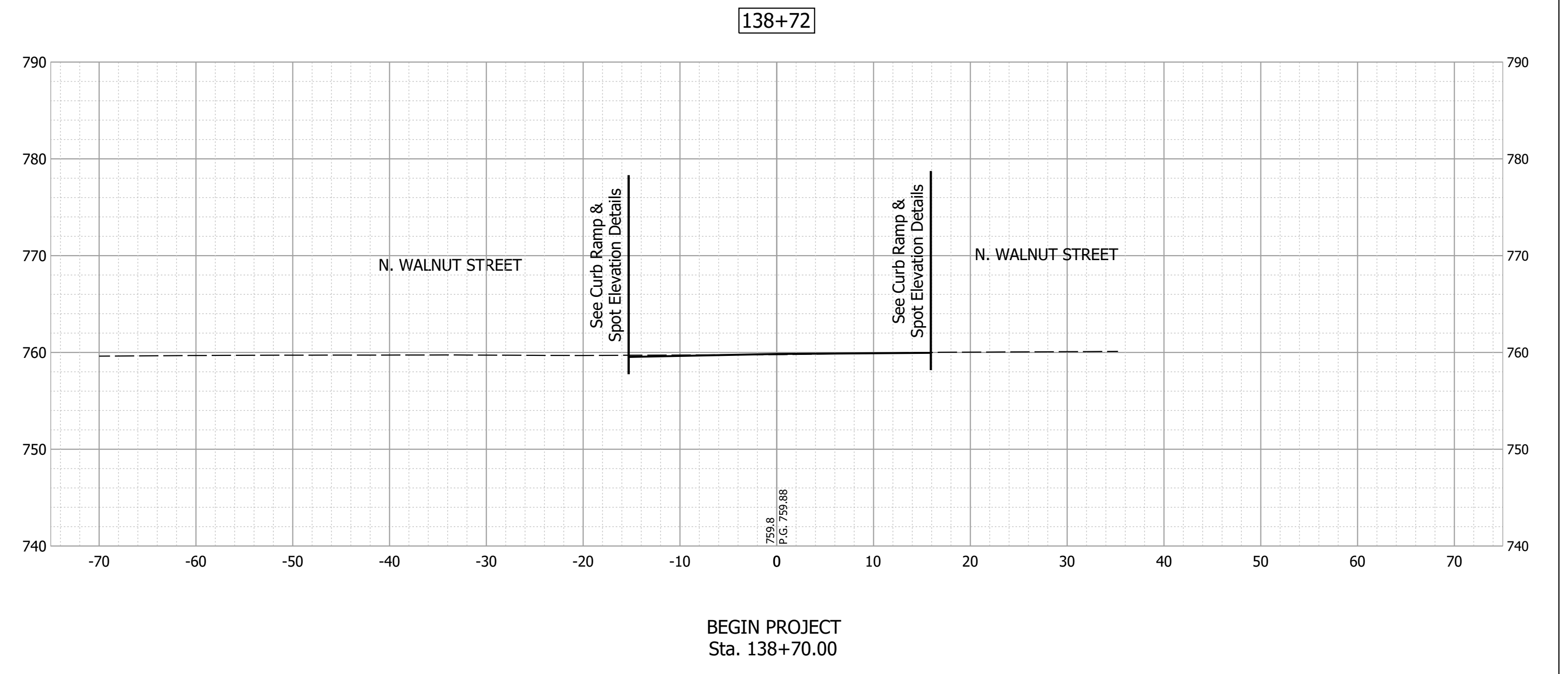
PIPE MATERIAL TABLE

HORIZONTAL SCALE	BRIDGE FILE
No Scale	N/A
VERTICAL SCALE	DESIGNATION
-	N/A
SURVEY BOOK	SHEET
	48 of 56
CONTRACT	PROJECT
-	- - -



VERTICAL SECTION
138+88.00

AC AH	VC AH	AF AH	VF AH
5.8	0	2.7	0



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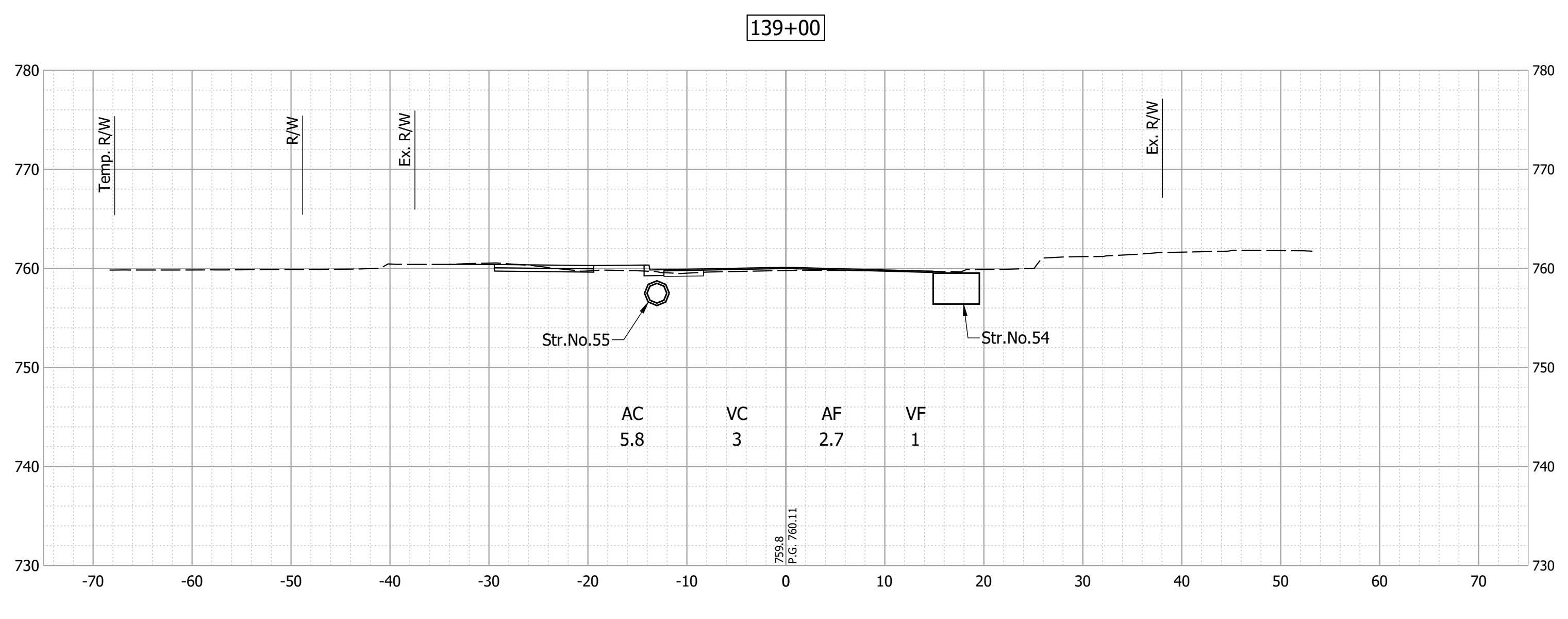
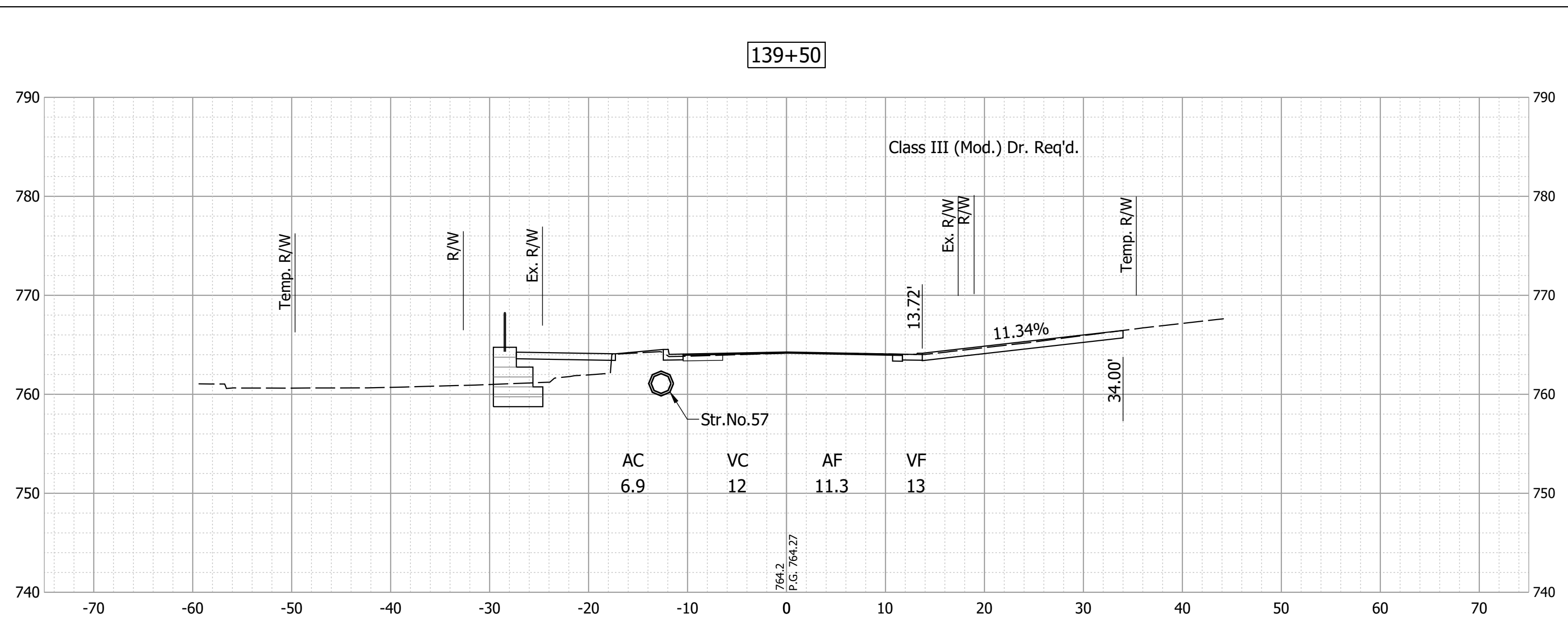
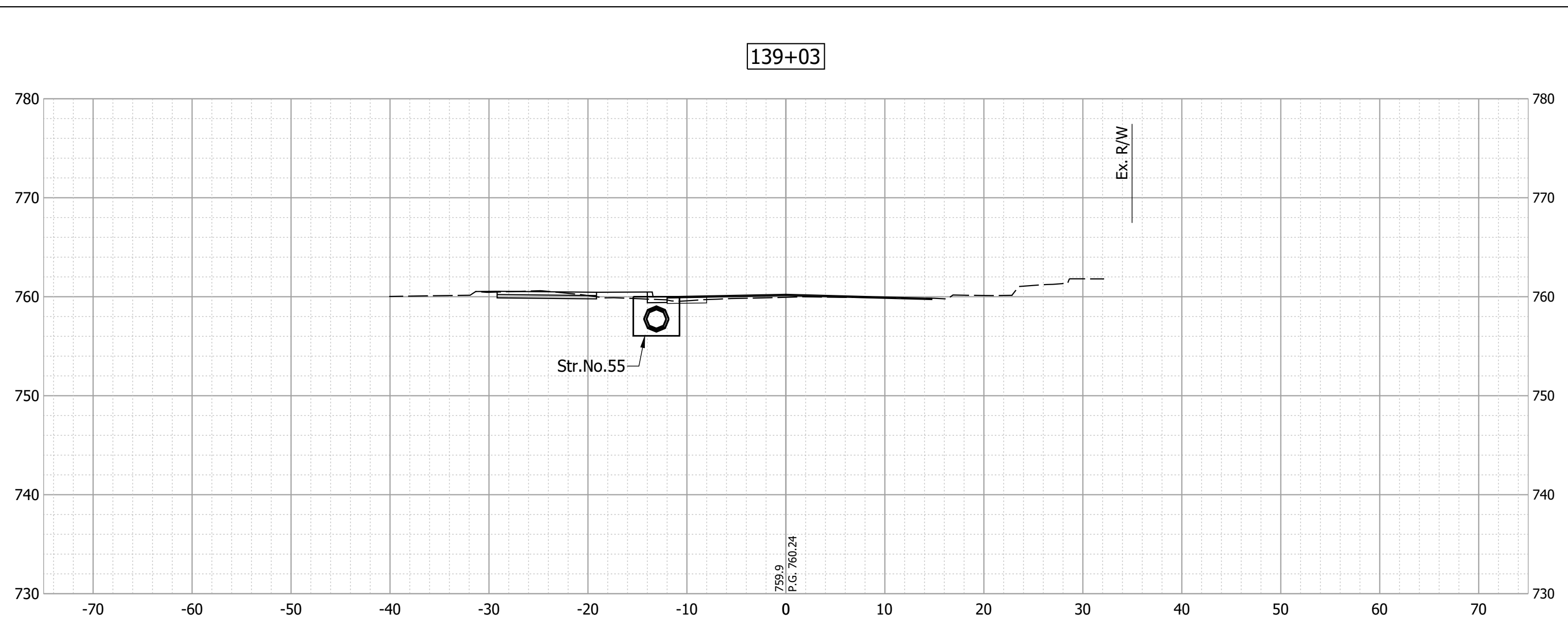
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	12/27/2021 DATE
DESIGNED: JAF	DRAWN: DAG	
CHECKED: NAW	CHECKED: JAF	

**17th STREET MULTI-USE PATH
CONSTRUCTION PLANS**
CITY OF BLOOMINGTON, INDIANA

CROSS SECTIONS - LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	N/A
VERTICAL SCALE	DESIGNATION
1"=10'	N/A
SURVEY BOOK	SHEETS
	49 of 56
CONTRACT	PROJECT
-	- - -

Date: Mar 11, 2022, 4:32pm User Name: TLyons
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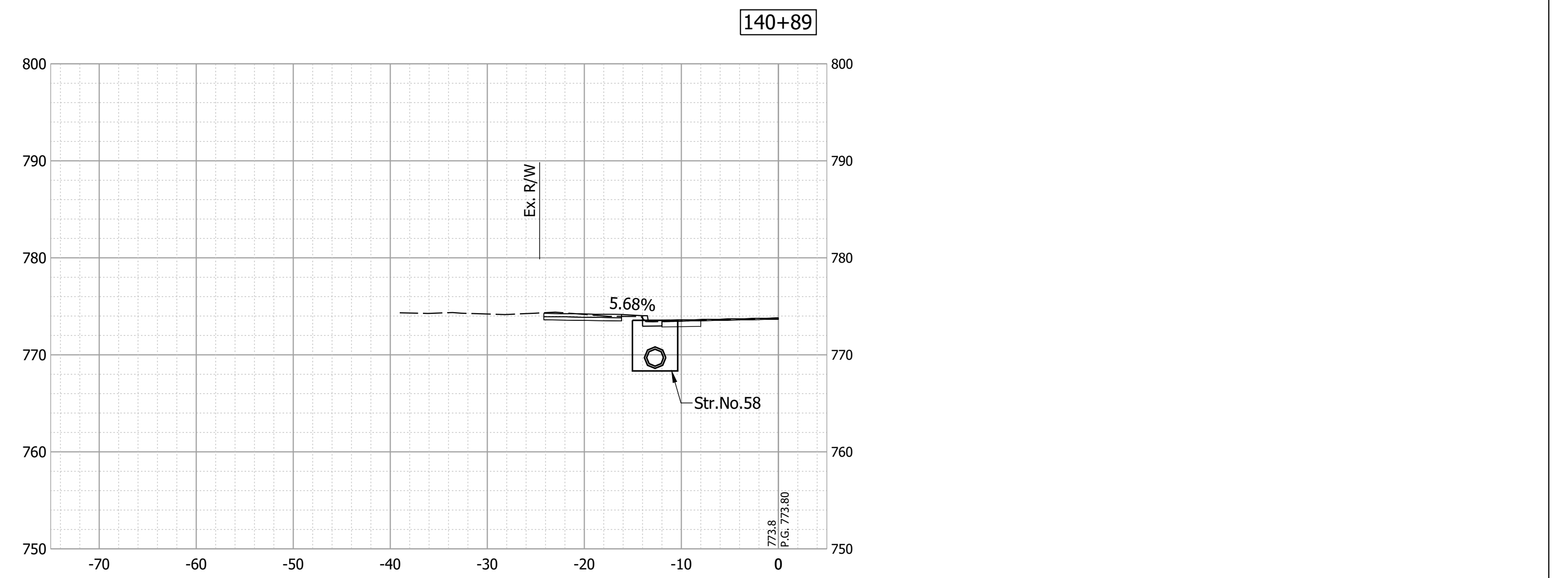
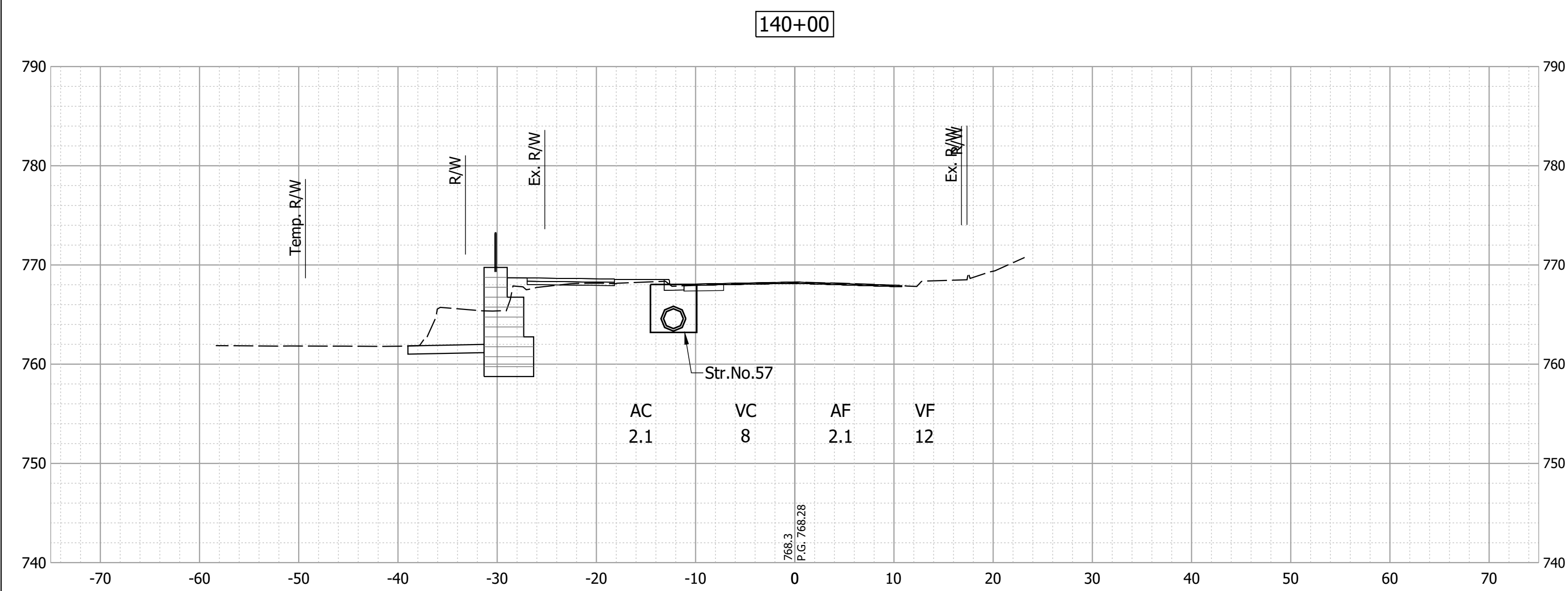
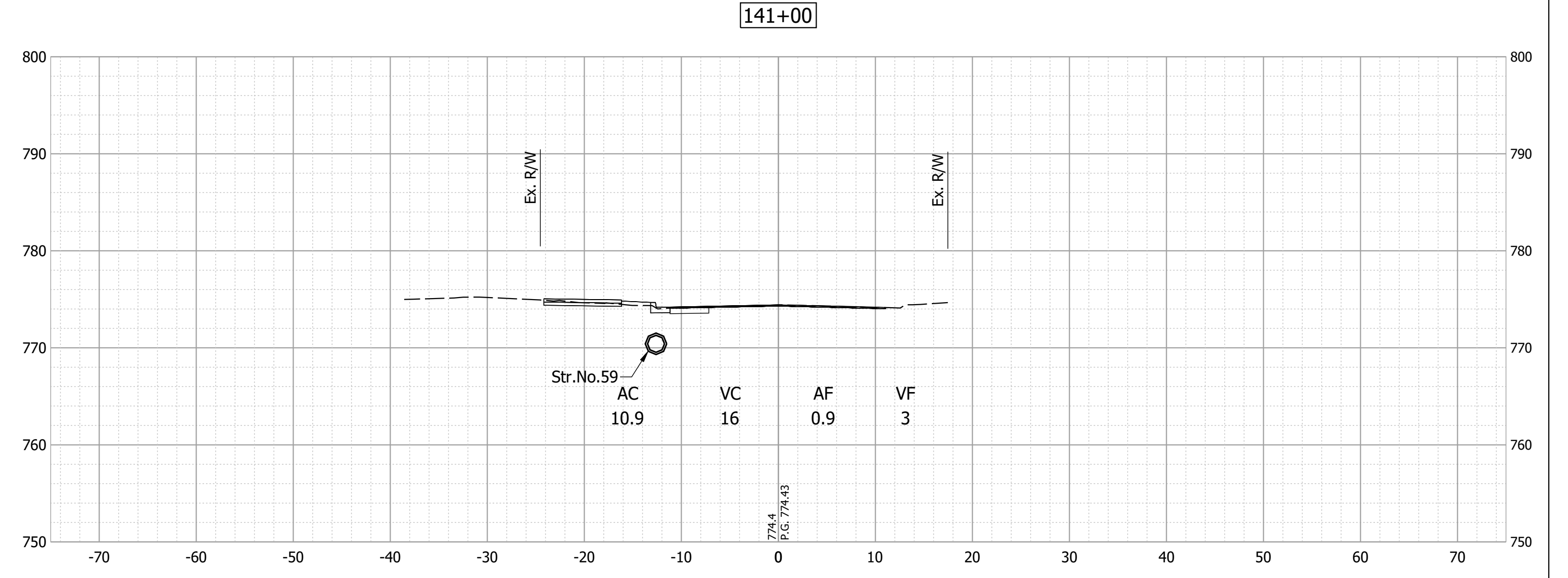
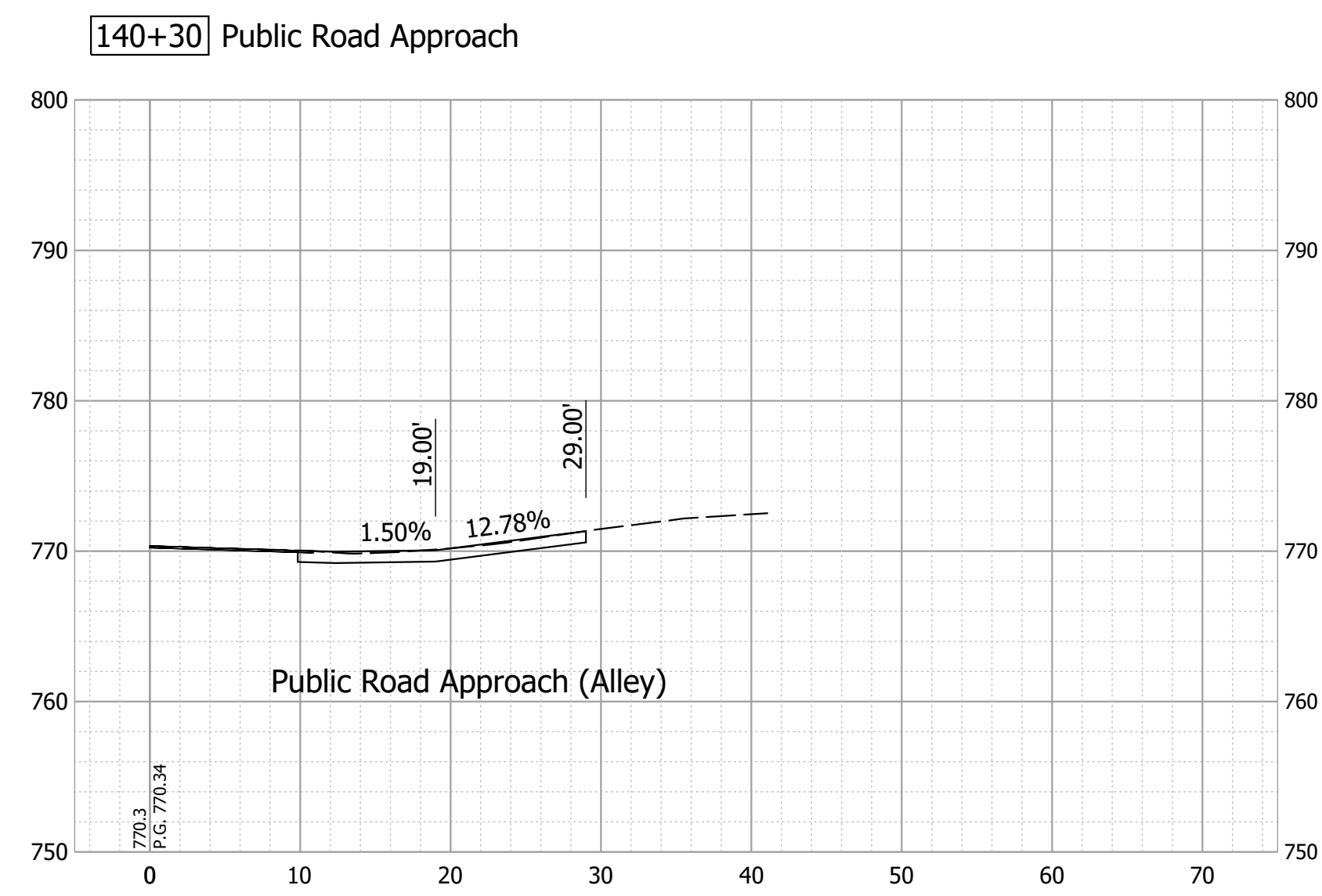
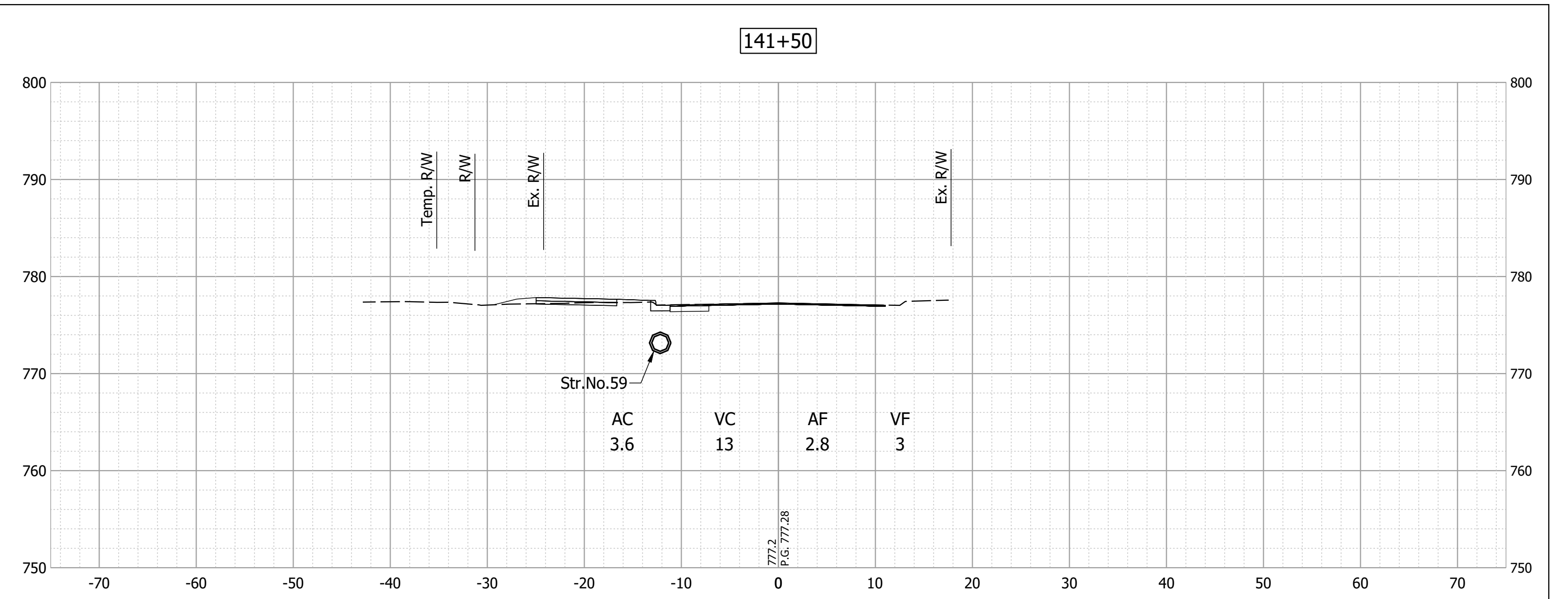
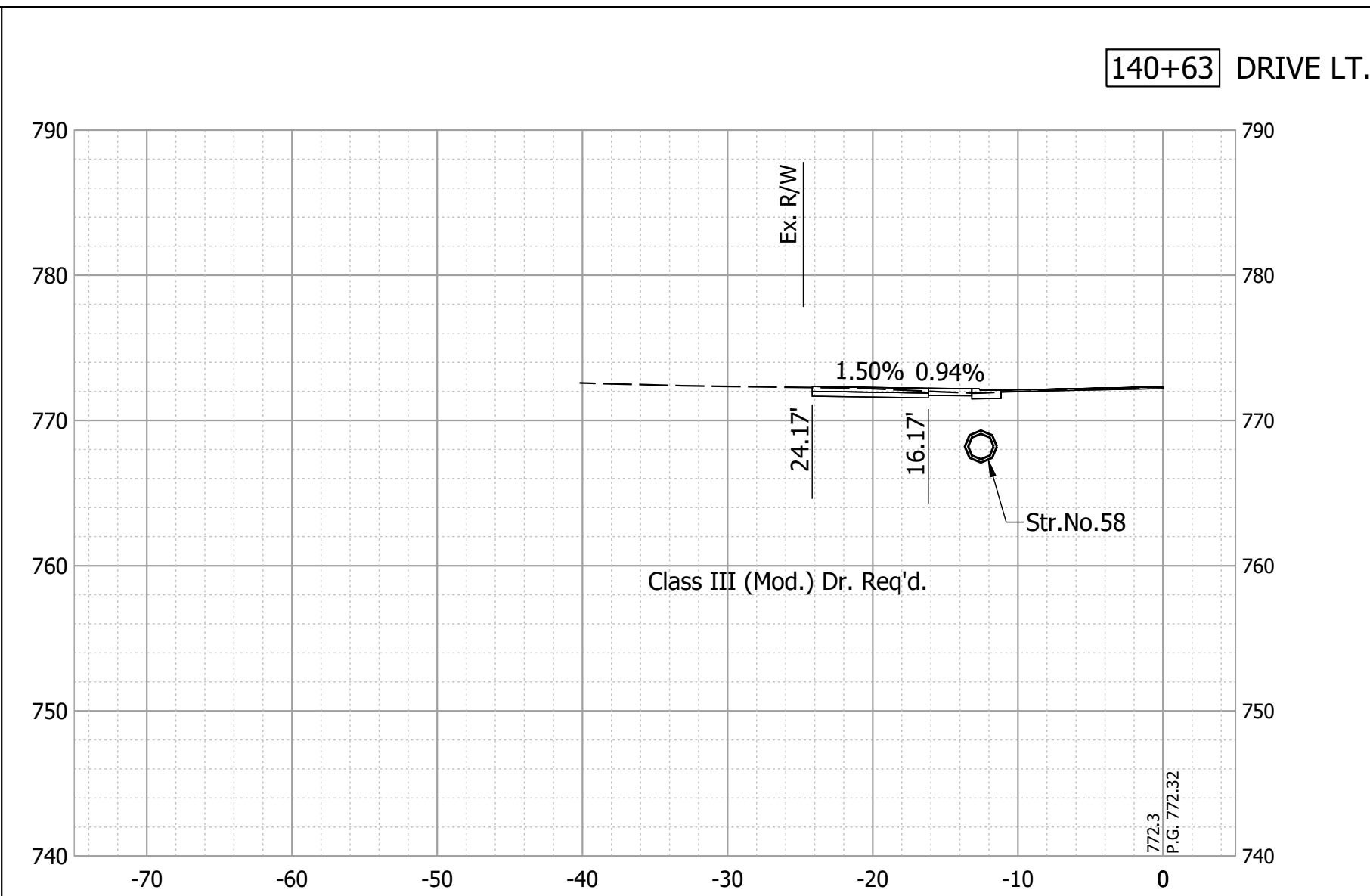


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	12/27/2021	DATE
DESIGNED: JAF	DRAWN: DAG		
CHECKED: NAW	CHECKED: JAF		

17th STREET MULTI-USE PATH
 CONSTRUCTION PLANS
 CITY OF BLOOMINGTON, INDIANA

CROSS SECTIONS - LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	N/A
VERTICAL SCALE	DESIGNATION
1"=10'	N/A
SURVEY BOOK	SHEETS
	50 of 56
CONTRACT	PROJECT



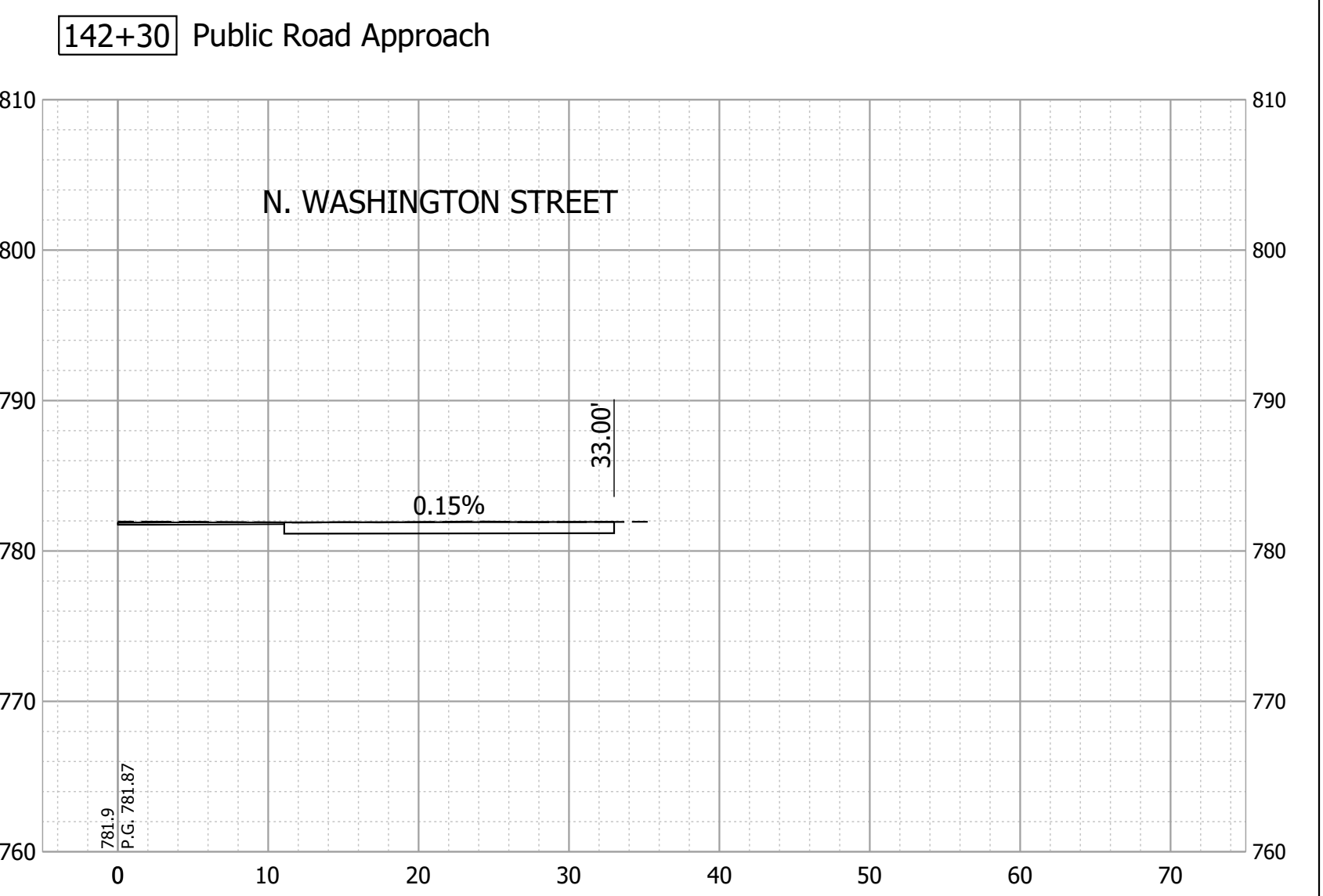
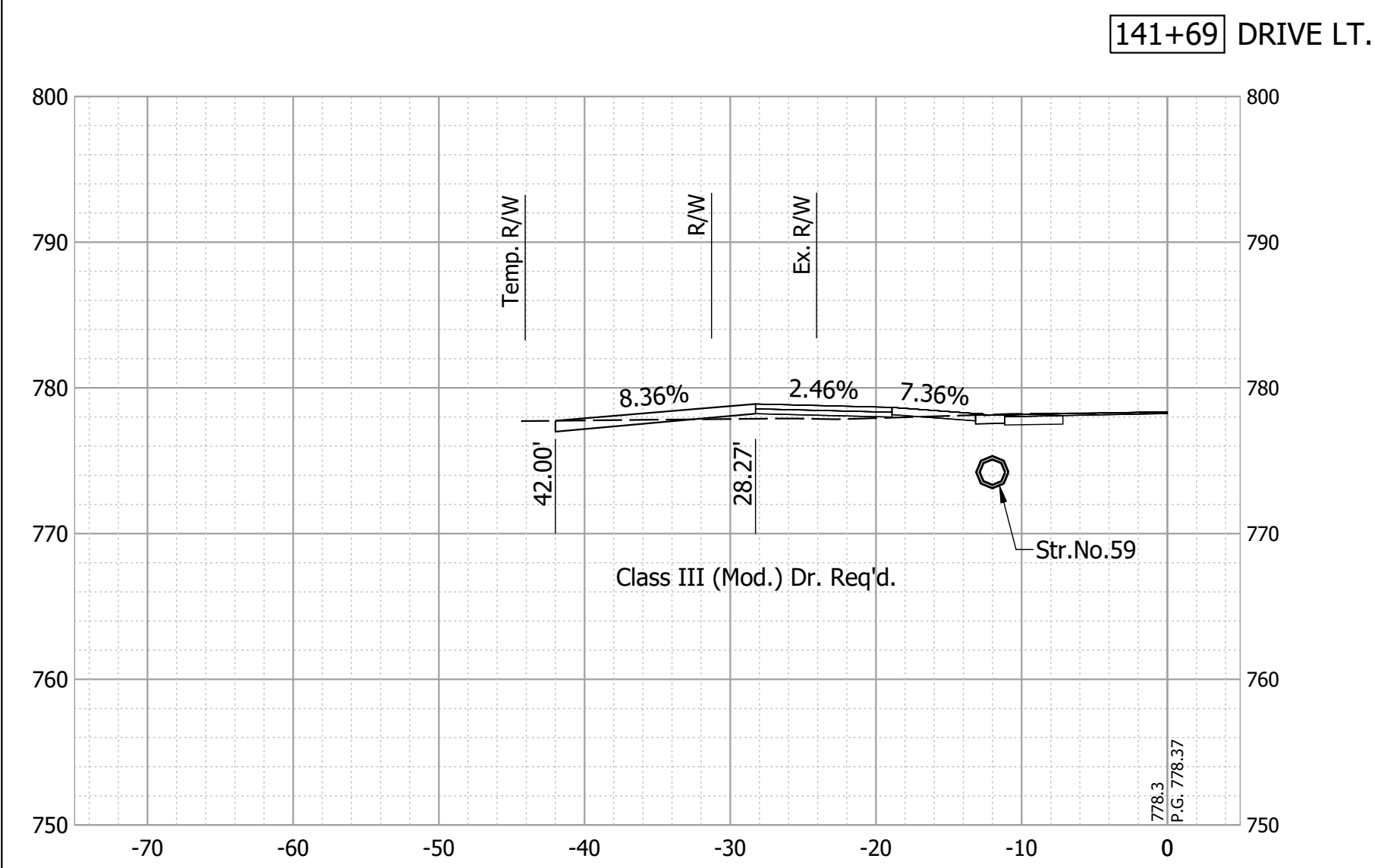
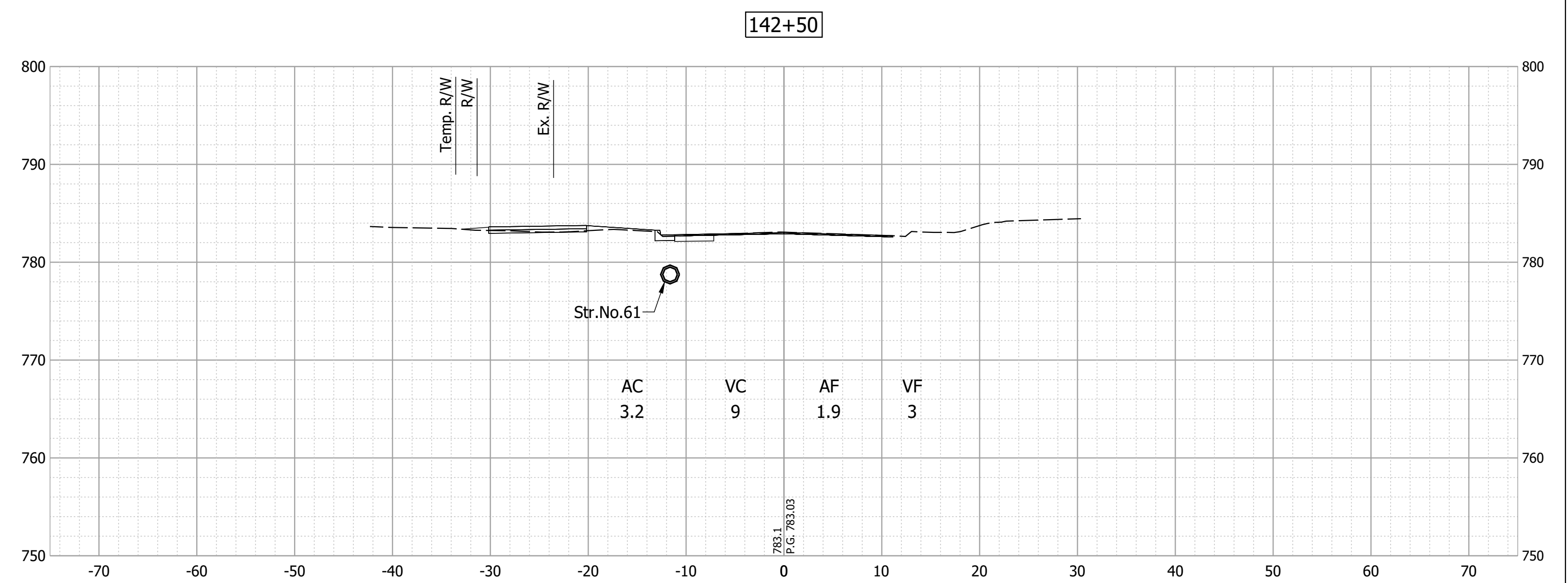
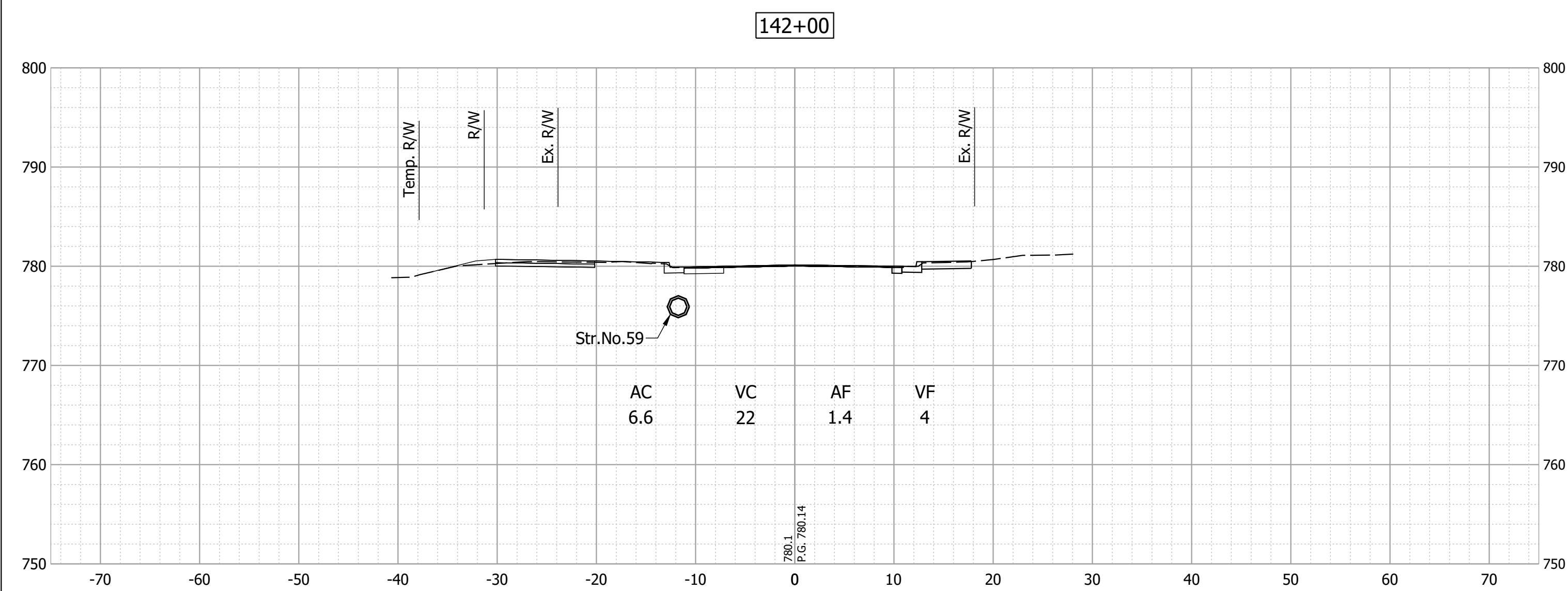
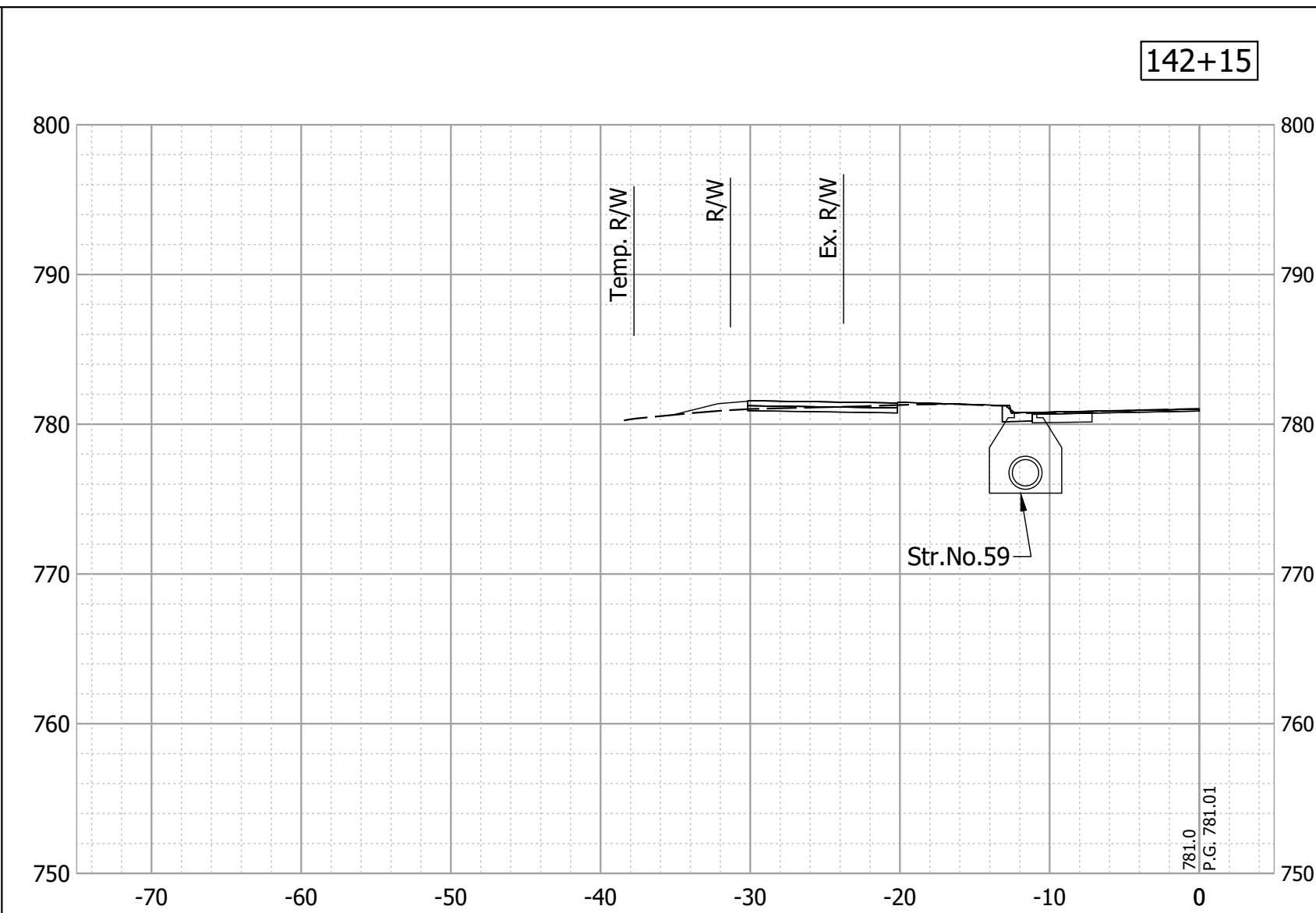
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	12/27/2021	DATE
DESIGNED: JAF	DRAWN: DAG		
CHECKED: NAW	CHECKED: JAF		

**17th STREET MULTI-USE PATH
CONSTRUCTION PLANS**
CITY OF BLOOMINGTON, INDIANA

CROSS SECTIONS - LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	N/A
VERTICAL SCALE	DESIGNATION
1"=10'	N/A
SURVEY BOOK	SHEETS
	51 of 56
CONTRACT	PROJECT



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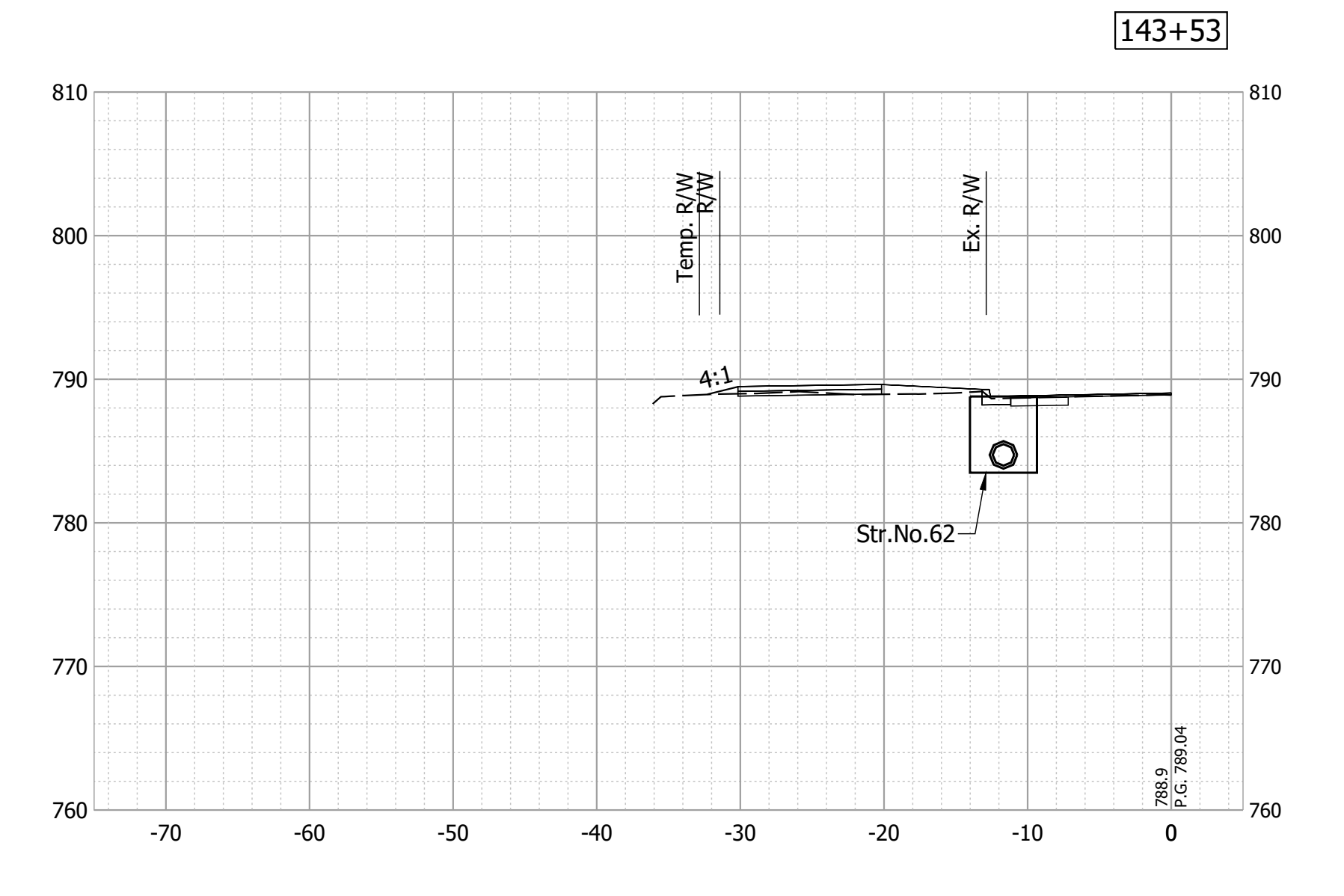
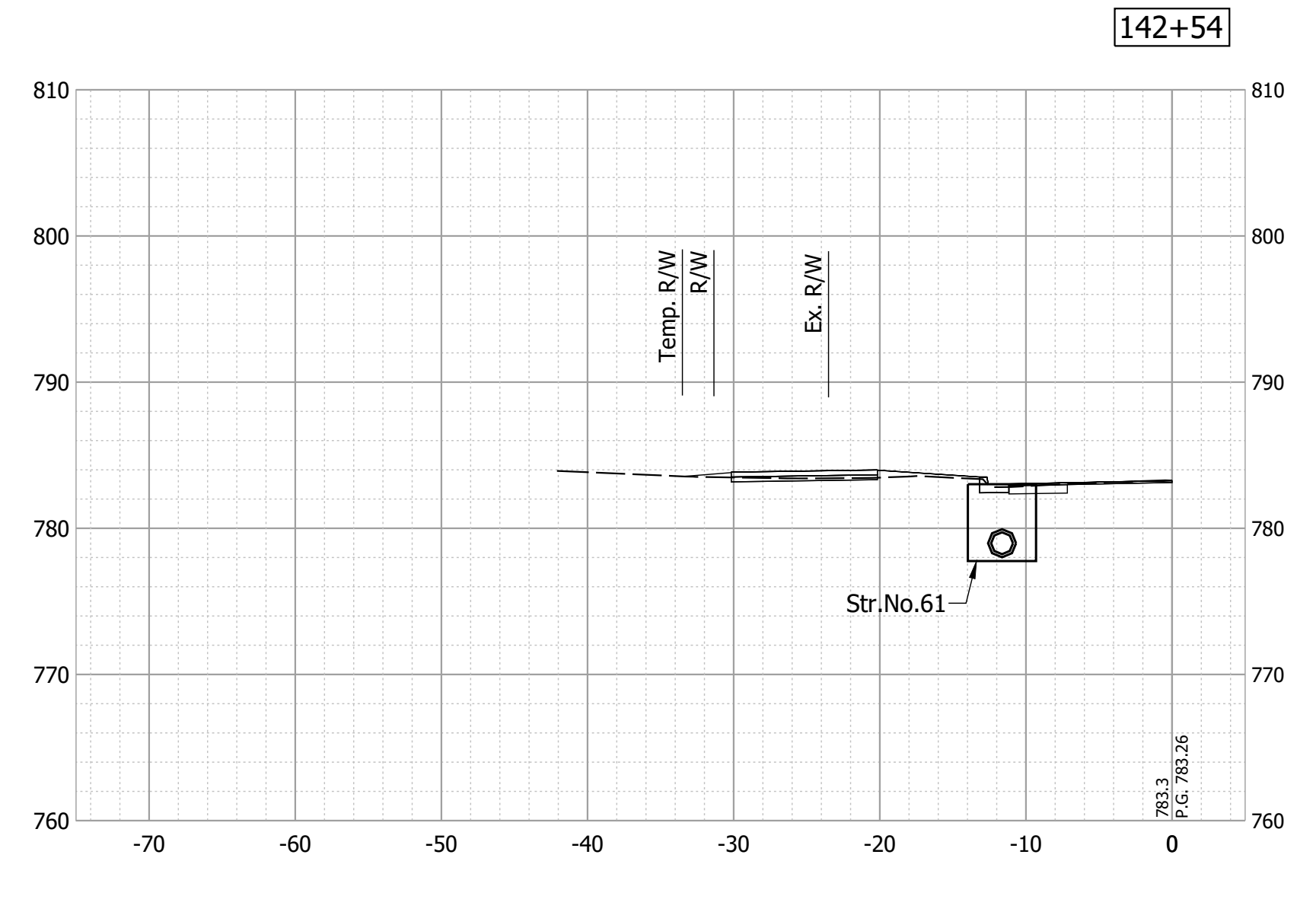
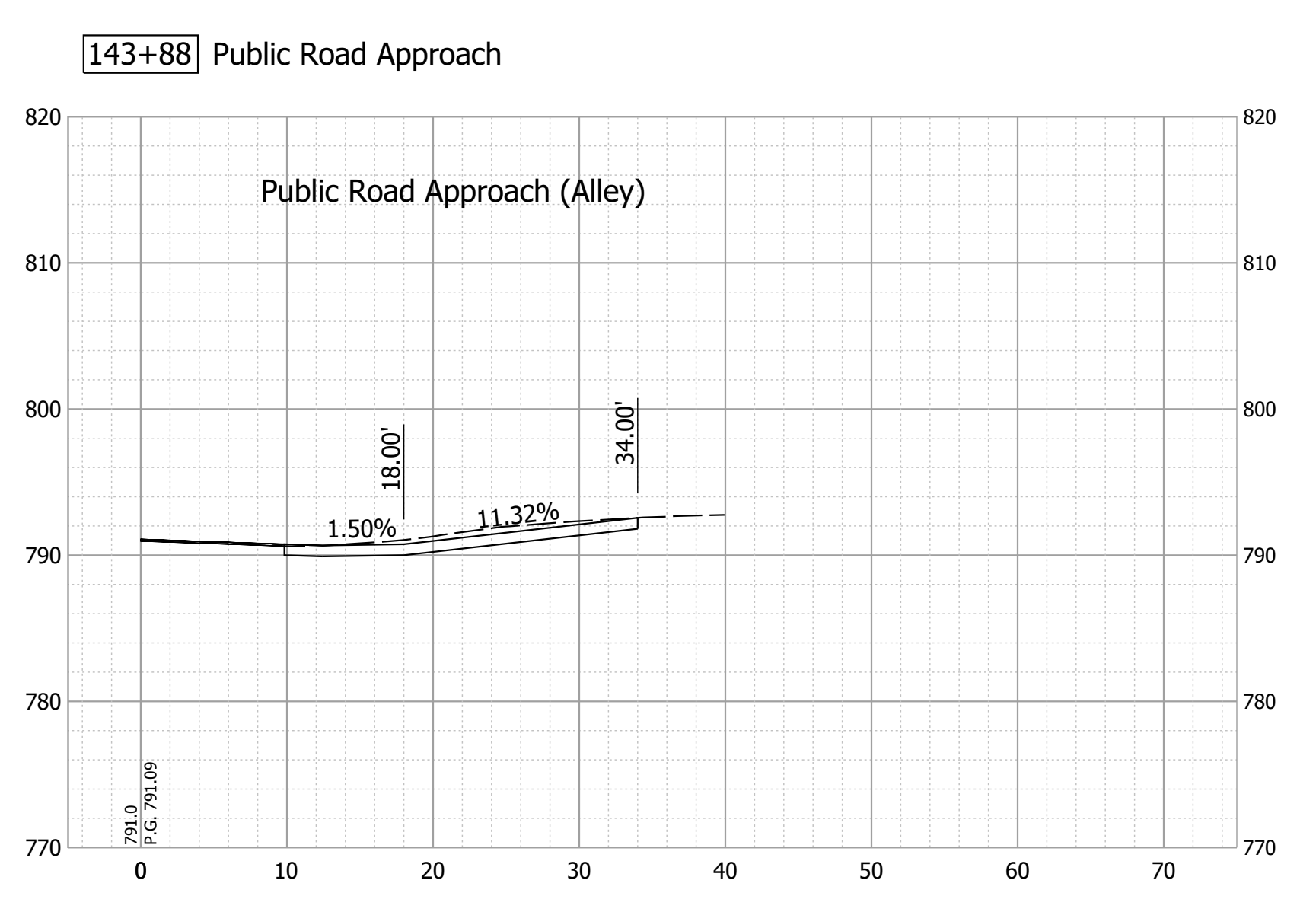
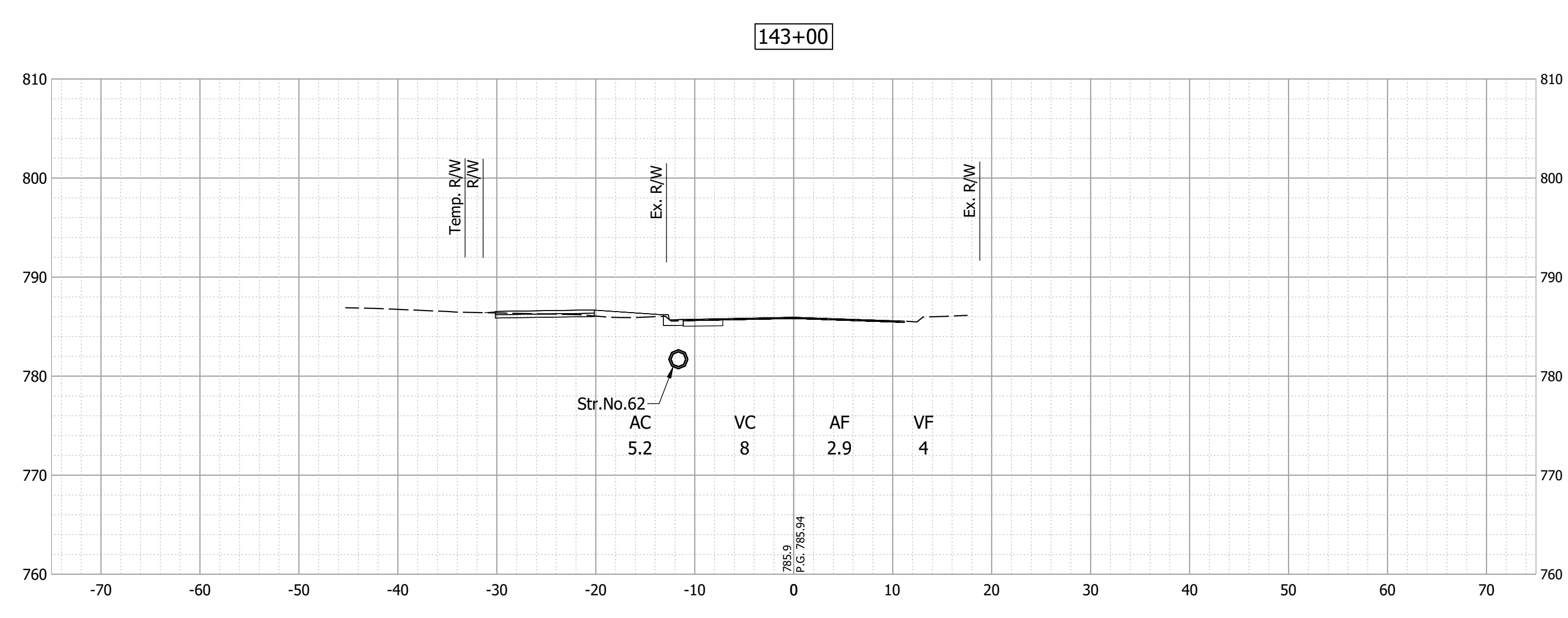
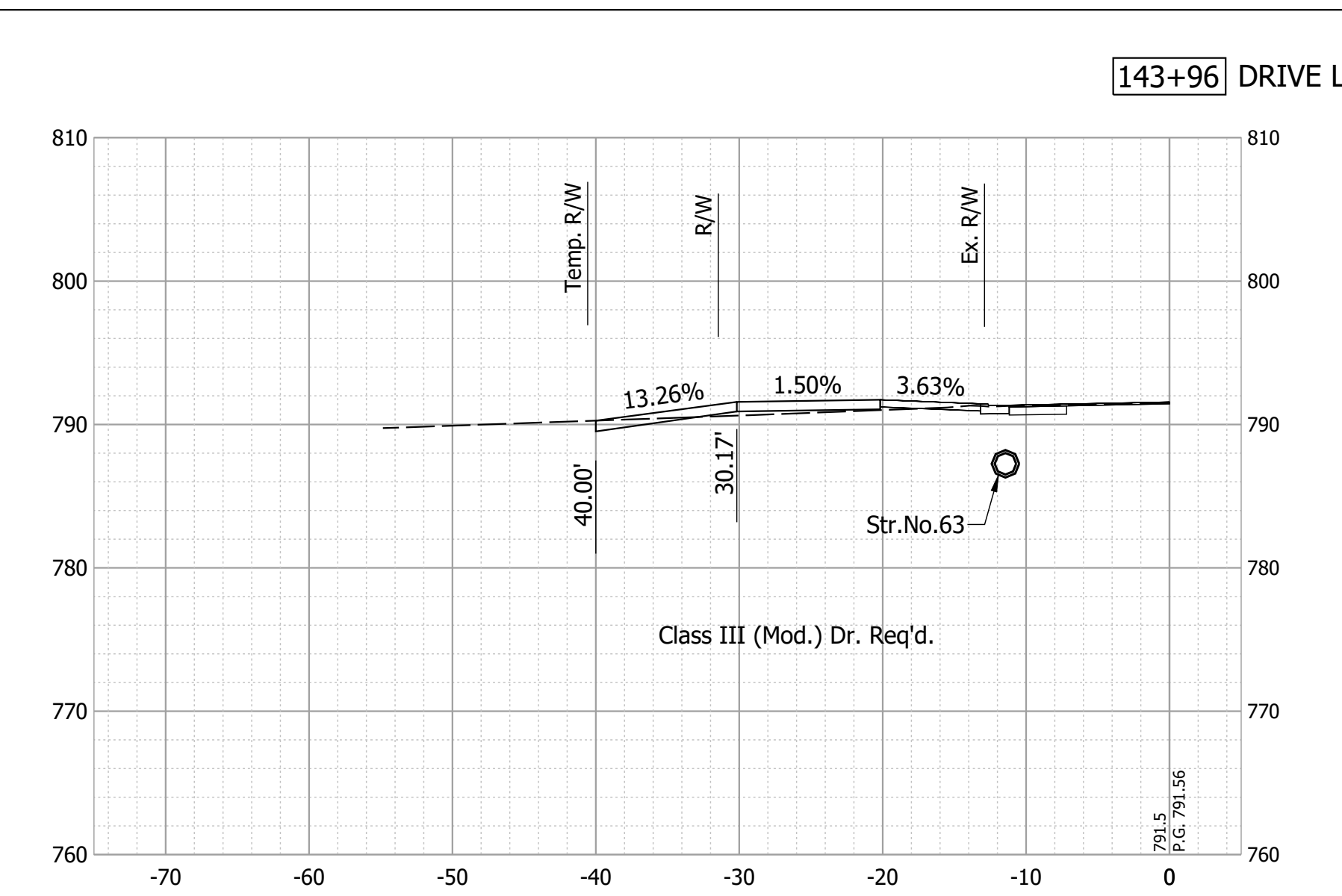
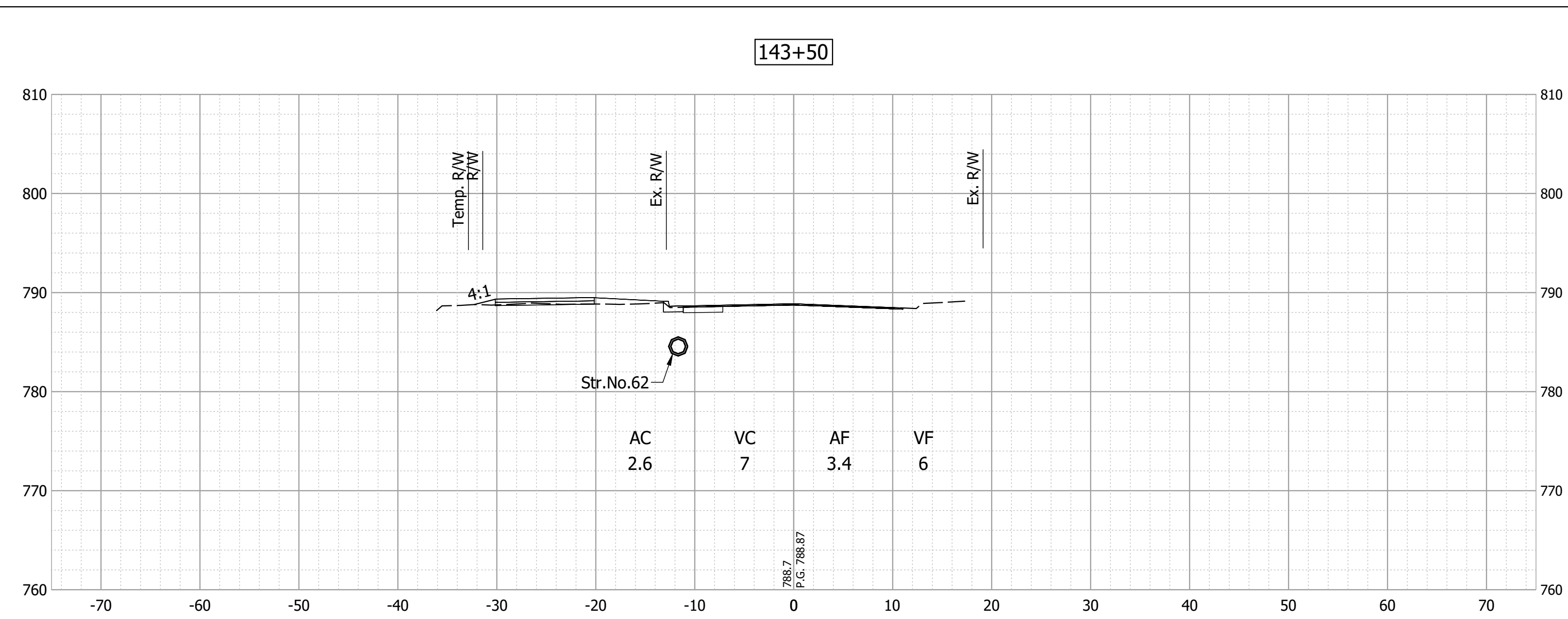
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER	12/27/2021	DATE
DESIGNED: JAF	DRAWN: DAG		
CHECKED: NAW	CHECKED: JAF		

**17th STREET MULTI-USE PATH
CONSTRUCTION PLANS**
CITY OF BLOOMINGTON, INDIANA

CROSS SECTIONS - LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	N/A
VERTICAL SCALE	DESIGNATION
1"=10'	N/A
SURVEY BOOK	SHEETS
	52 of 56
CONTRACT	PROJECT
-	-

Date: Mar 11, 2022, 4:33pm User Name: TLyons
 File: S:_2019\119-0055\Road_East Phase\CAD\CrossSection\Sheet PR-A.dwg



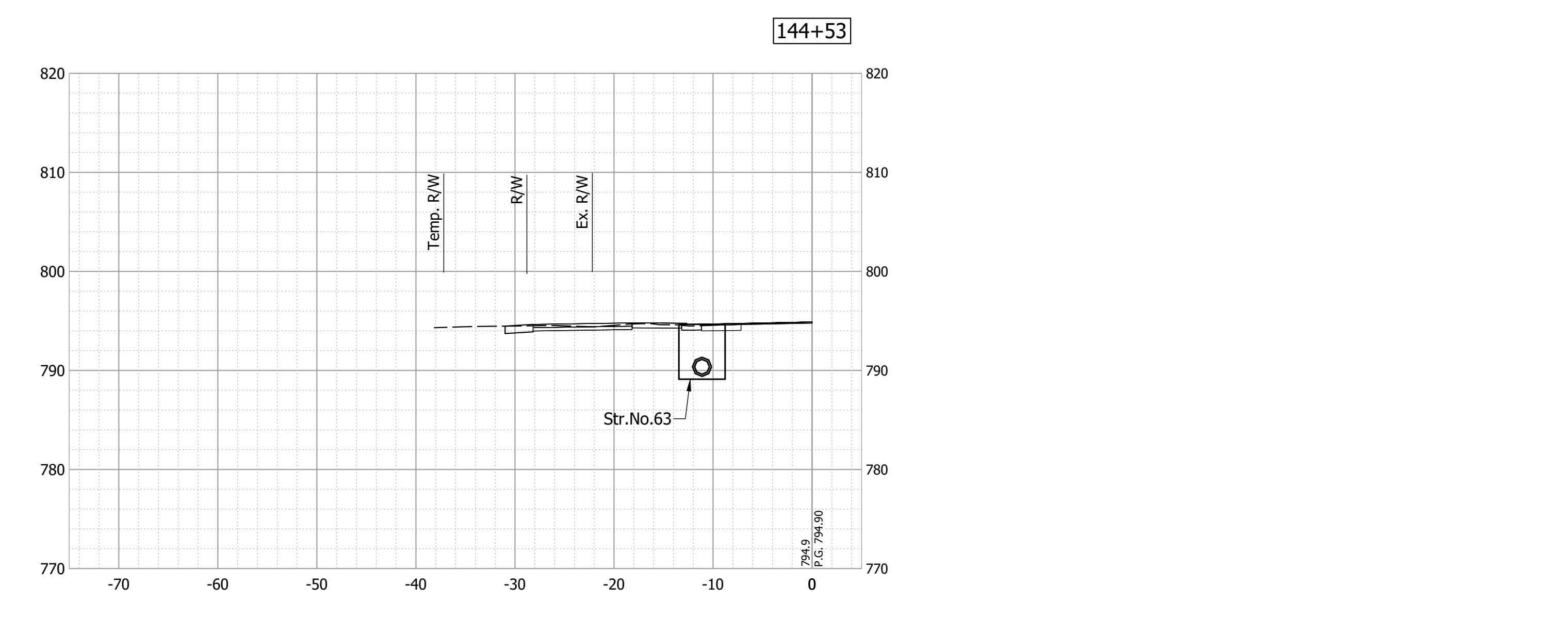
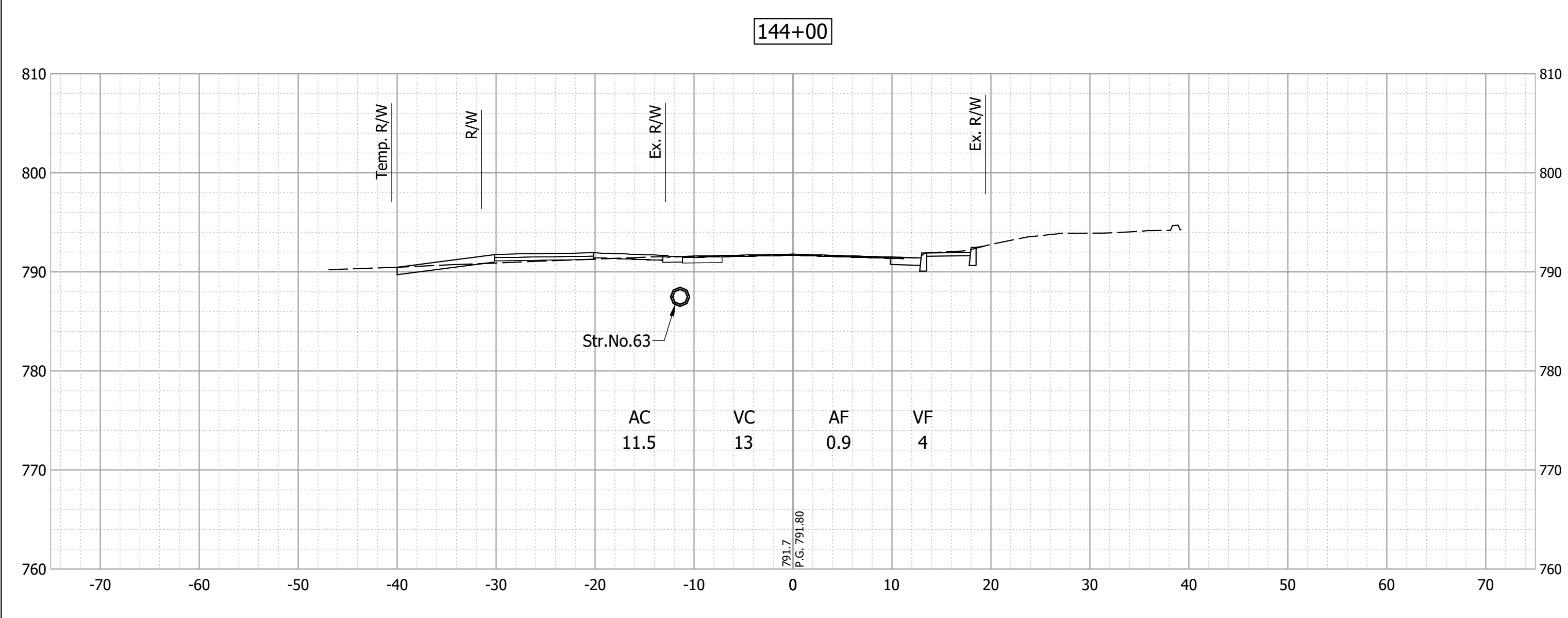
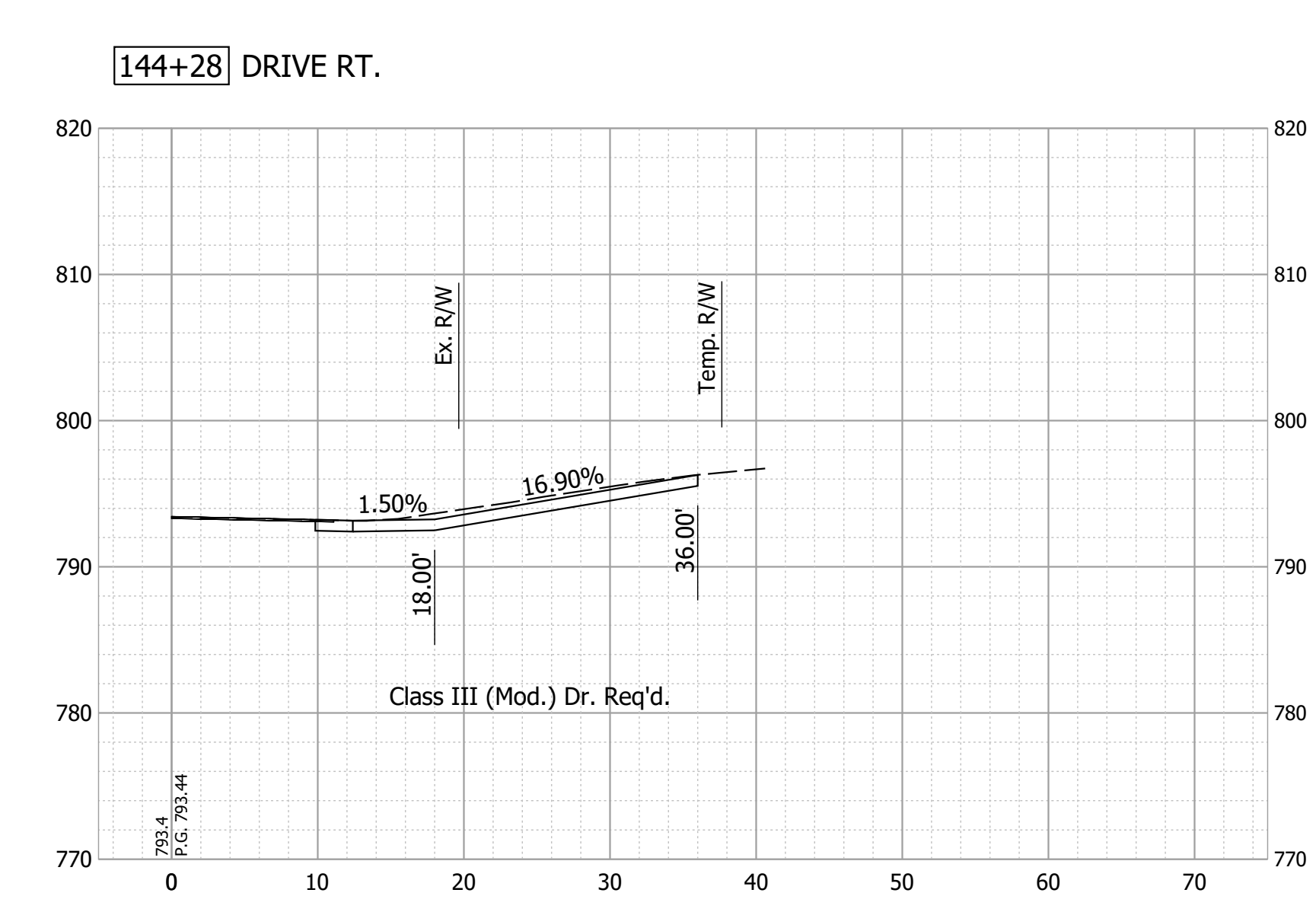
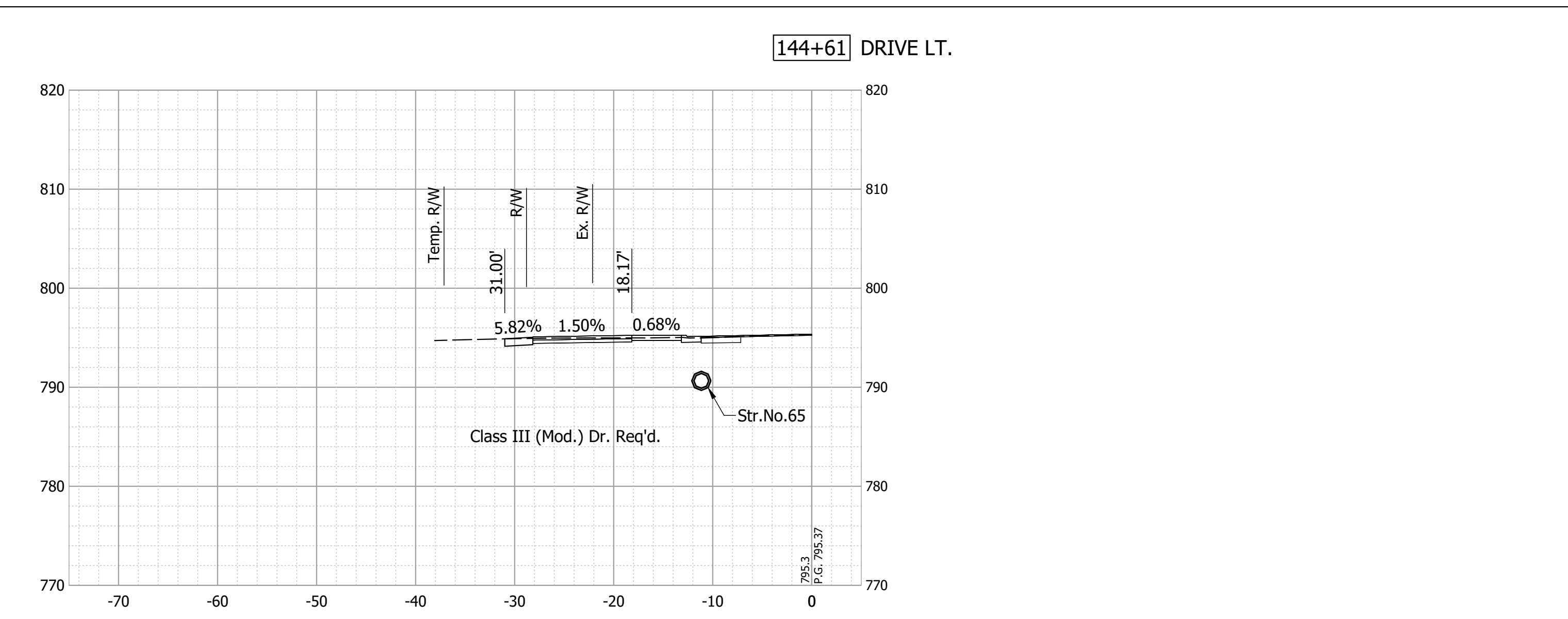
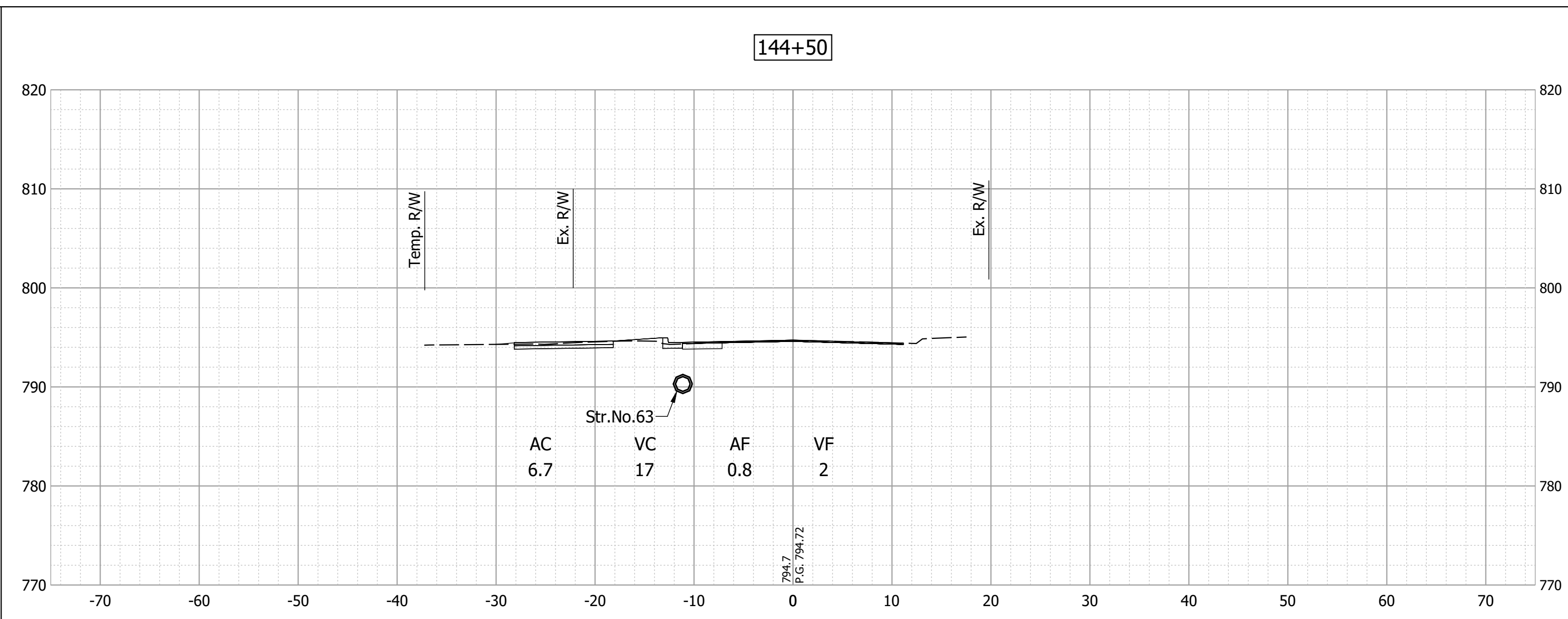
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER	12/27/2021	DATE
DESIGNED: JAF	DRAWN: DAG		
CHECKED: NAW	CHECKED: JAF		

17th STREET MULTI-USE PATH
 CONSTRUCTION PLANS
 CITY OF BLOOMINGTON, INDIANA

CROSS SECTIONS - LINE "PR-A"

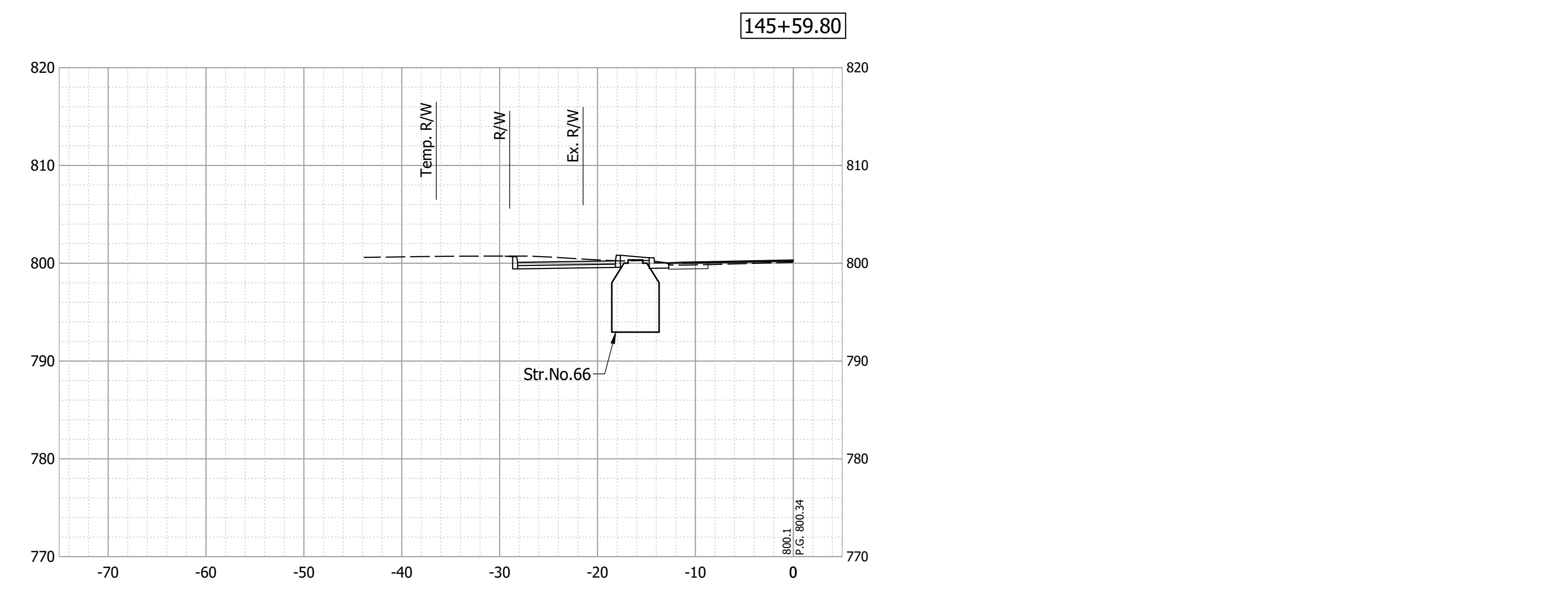
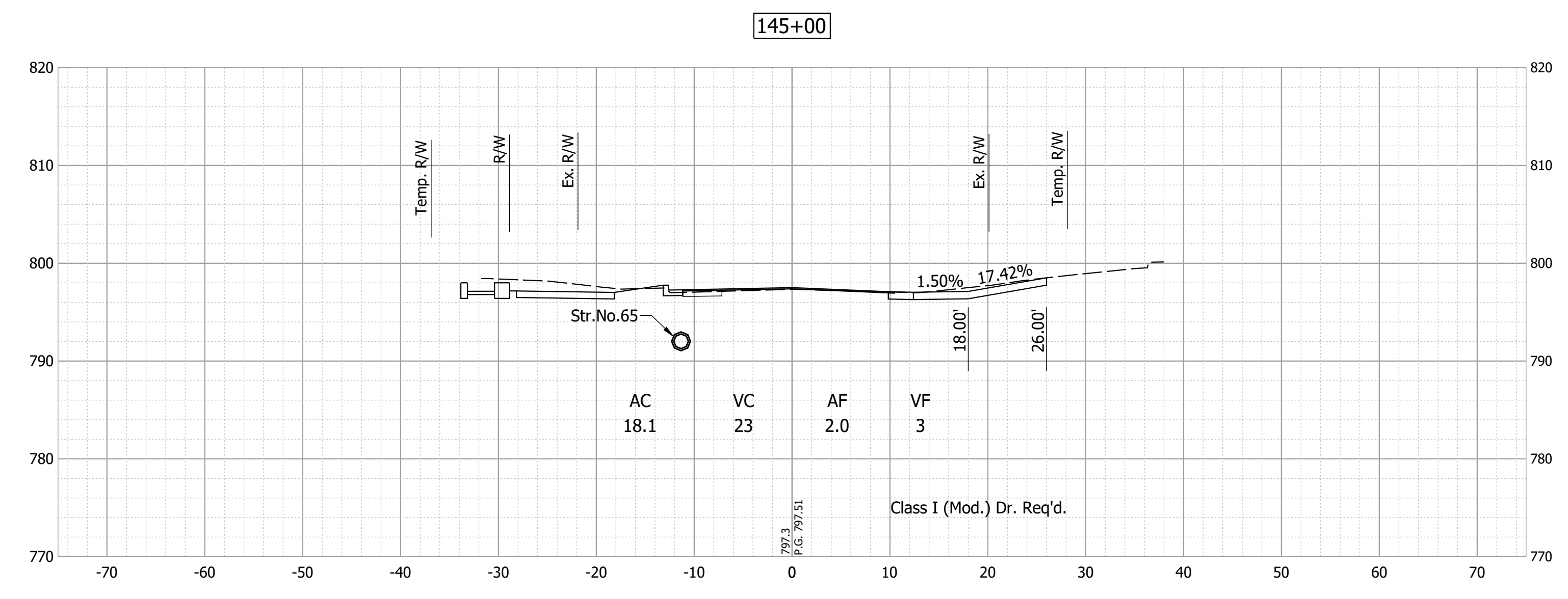
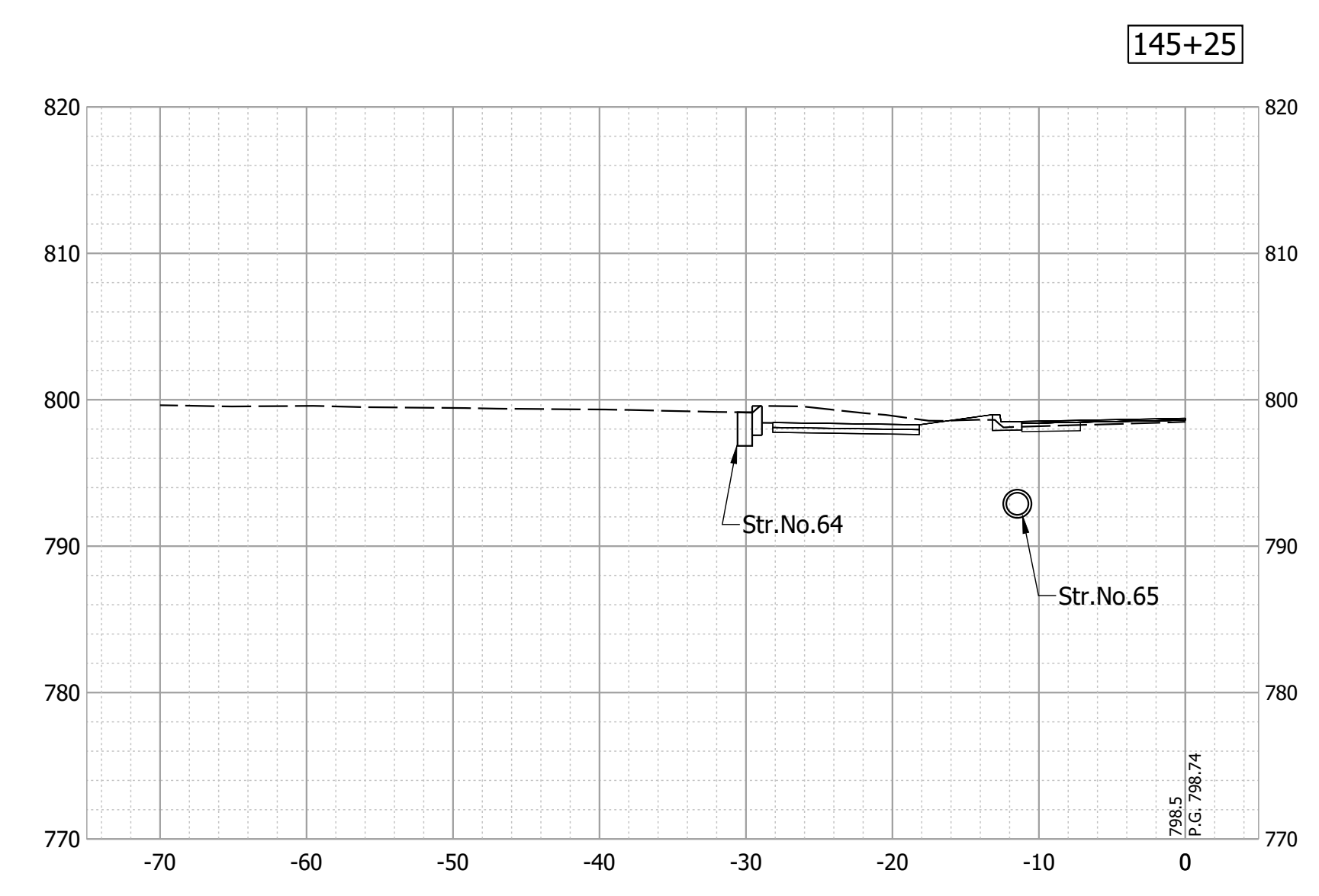
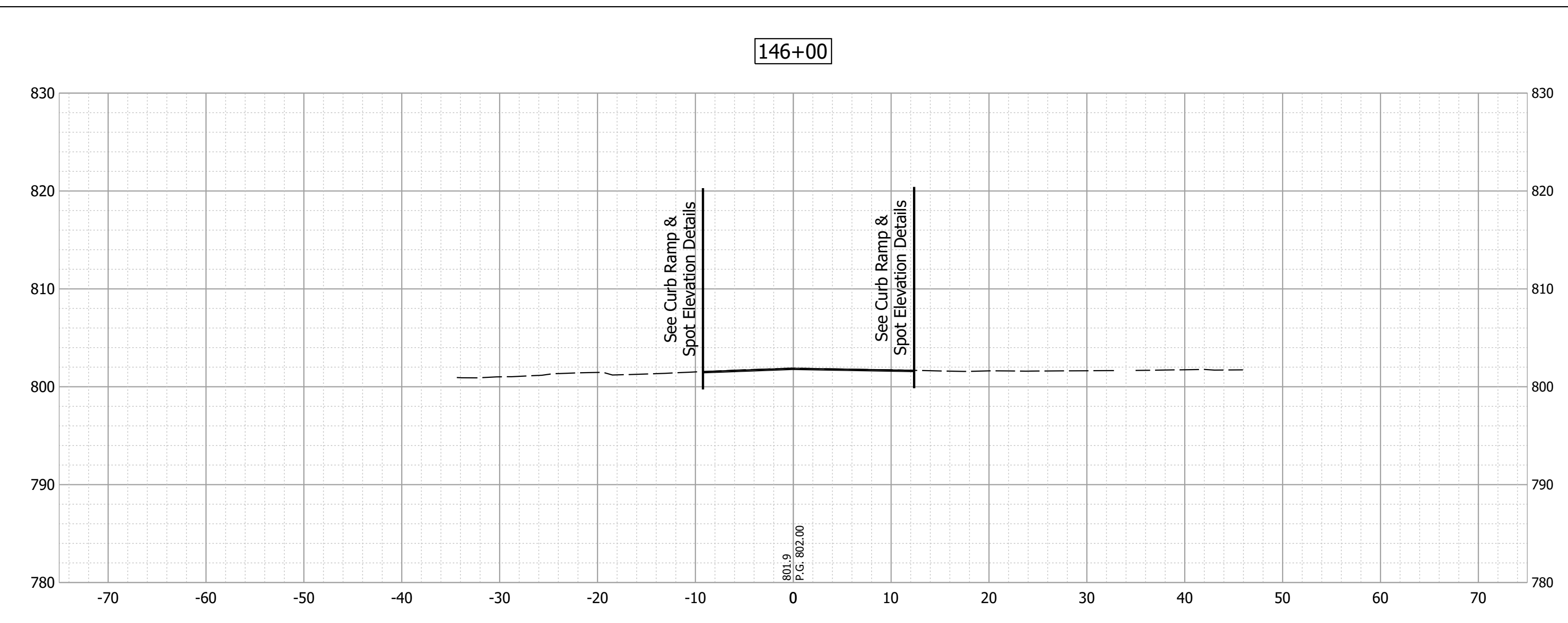
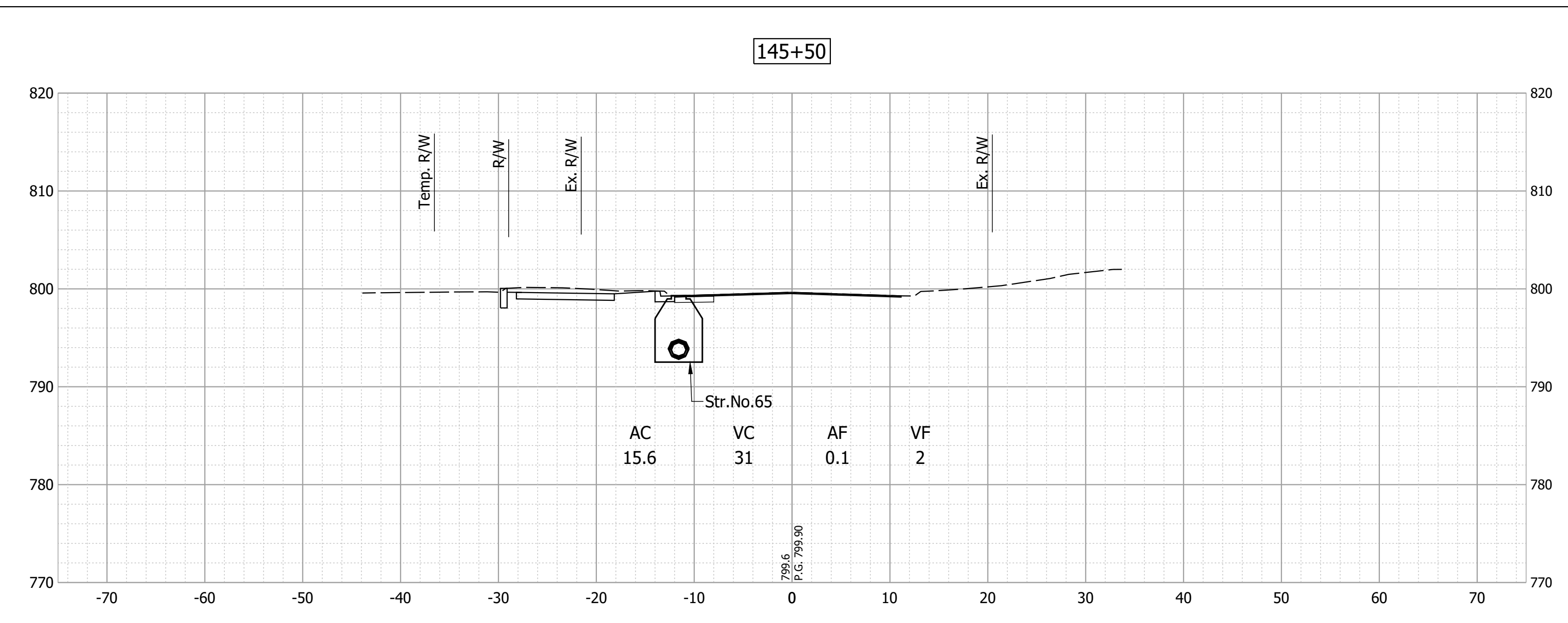
HORIZONTAL SCALE	BRIDGE FILE
1"=10'	N/A
VERTICAL SCALE	DESIGNATION
1"=10'	N/A
SURVEY BOOK	SHEETS
	53 of 56
CONTRACT	PROJECT

Date: Mar 11, 2022, 4:33pm User Name: TLyons
 File: S:_2019\119-0055\Road_East Phase\CAD\CrossSection\Sheet PR-A.dwg



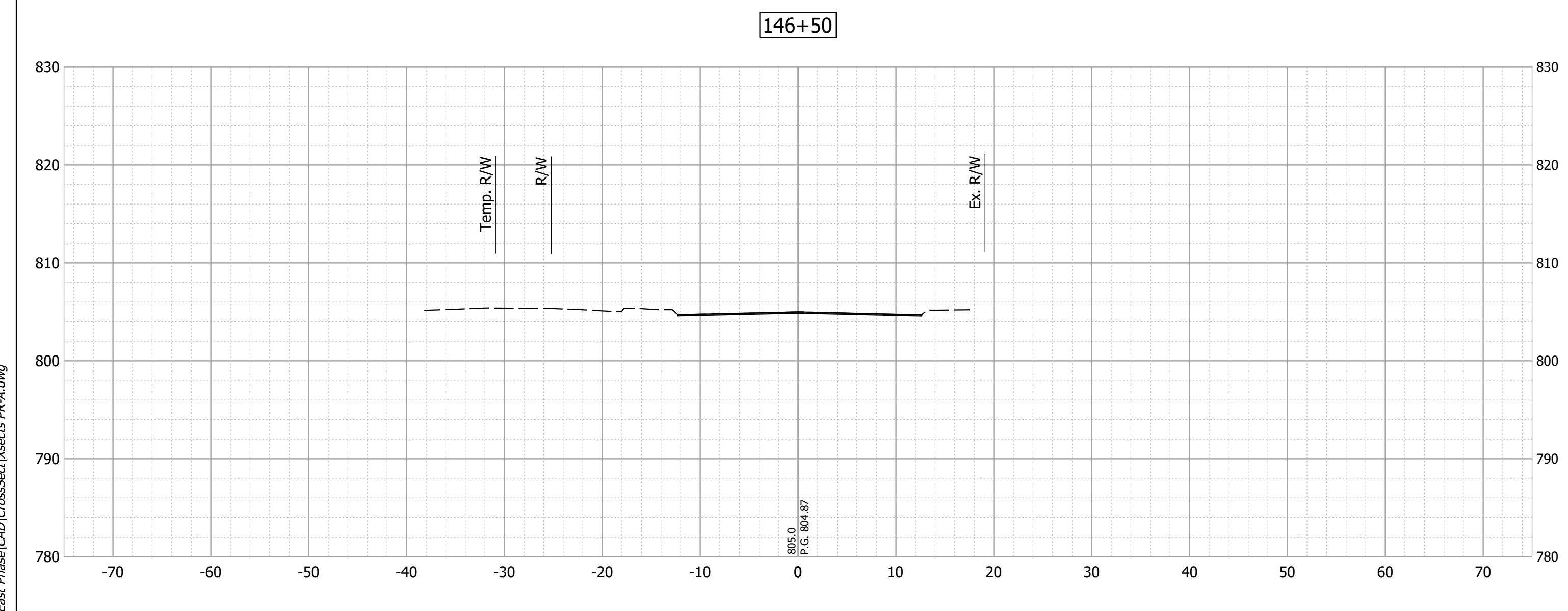
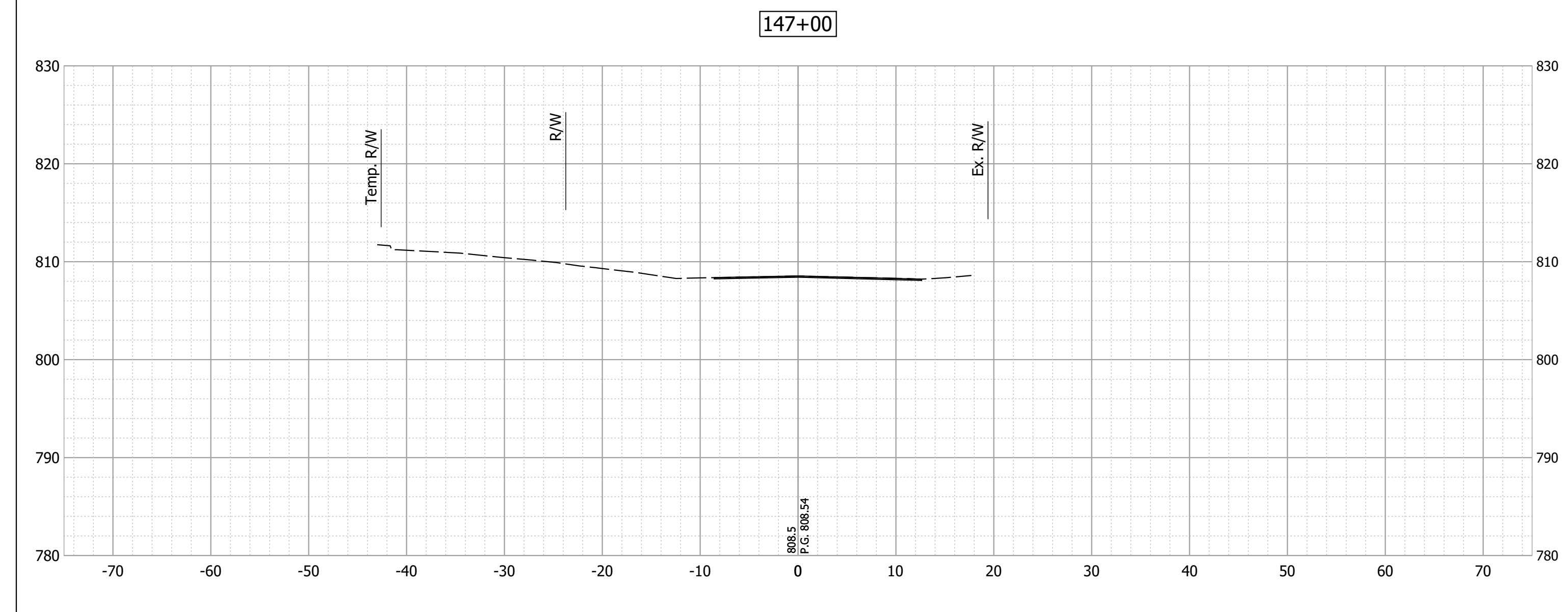
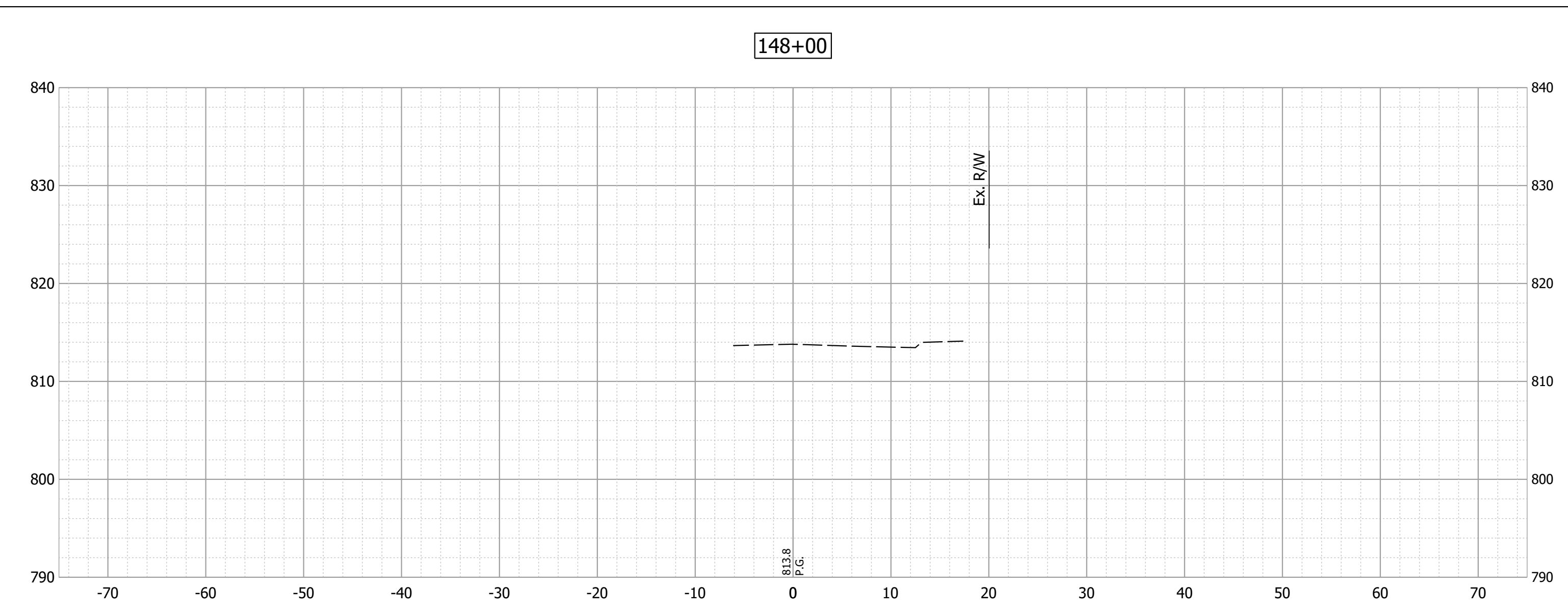
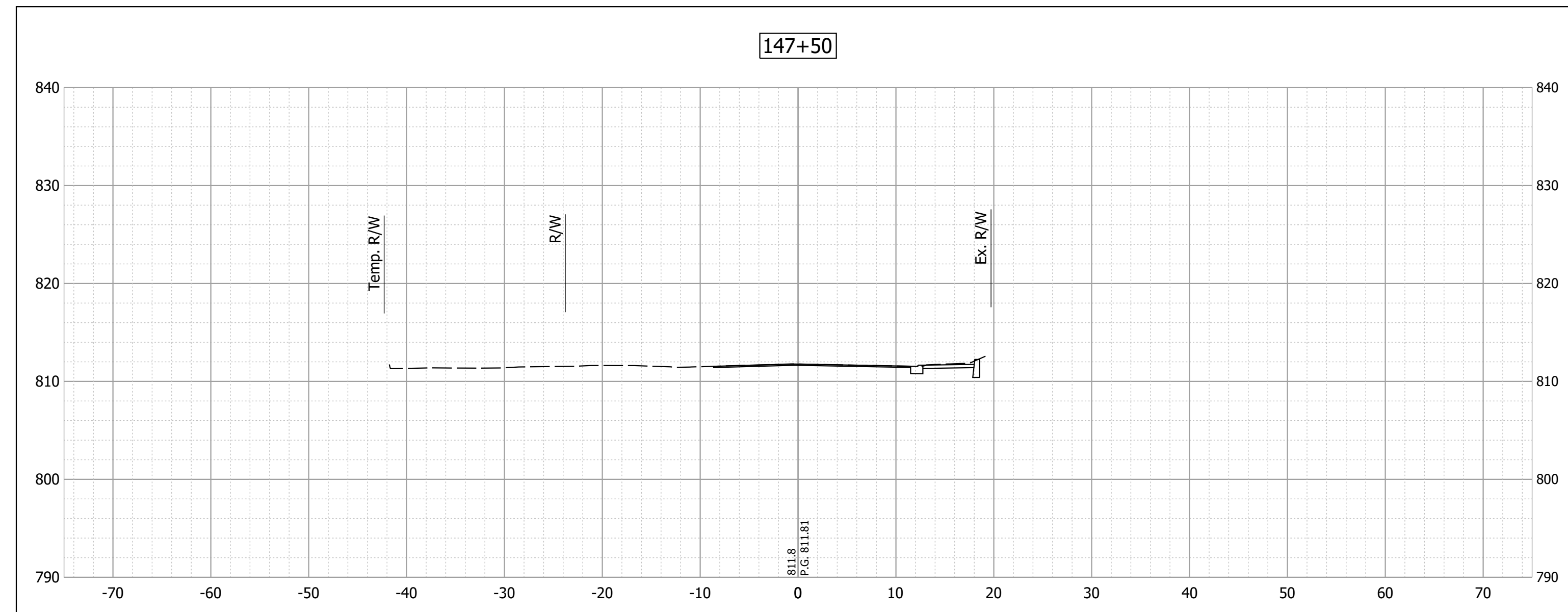
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER	12/27/2021 DATE	17th STREET MULTI-USE PATH CONSTRUCTION PLANS CITY OF BLOOMINGTON, INDIANA		HORIZONTAL SCALE	BRIDGE FILE
				1"=10'	N/A
DESIGNED: JAF	DRAWN: DAG	CROSS SECTIONS - LINE "PR-A"		VERTICAL SCALE	DESIGNATION
CHECKED: NAW	CHECKED: JAF			1"=10'	N/A
				SURVEY BOOK	SHEETS
				CONTRACT	54 of 56
					PROJECT

Date: Mar 11, 2022, 4:33pm User Name: T Lyons
 File: S:_2019\119-0055\Road_East Phase\CAD\CrossSection\Sheet PR-A.dwg

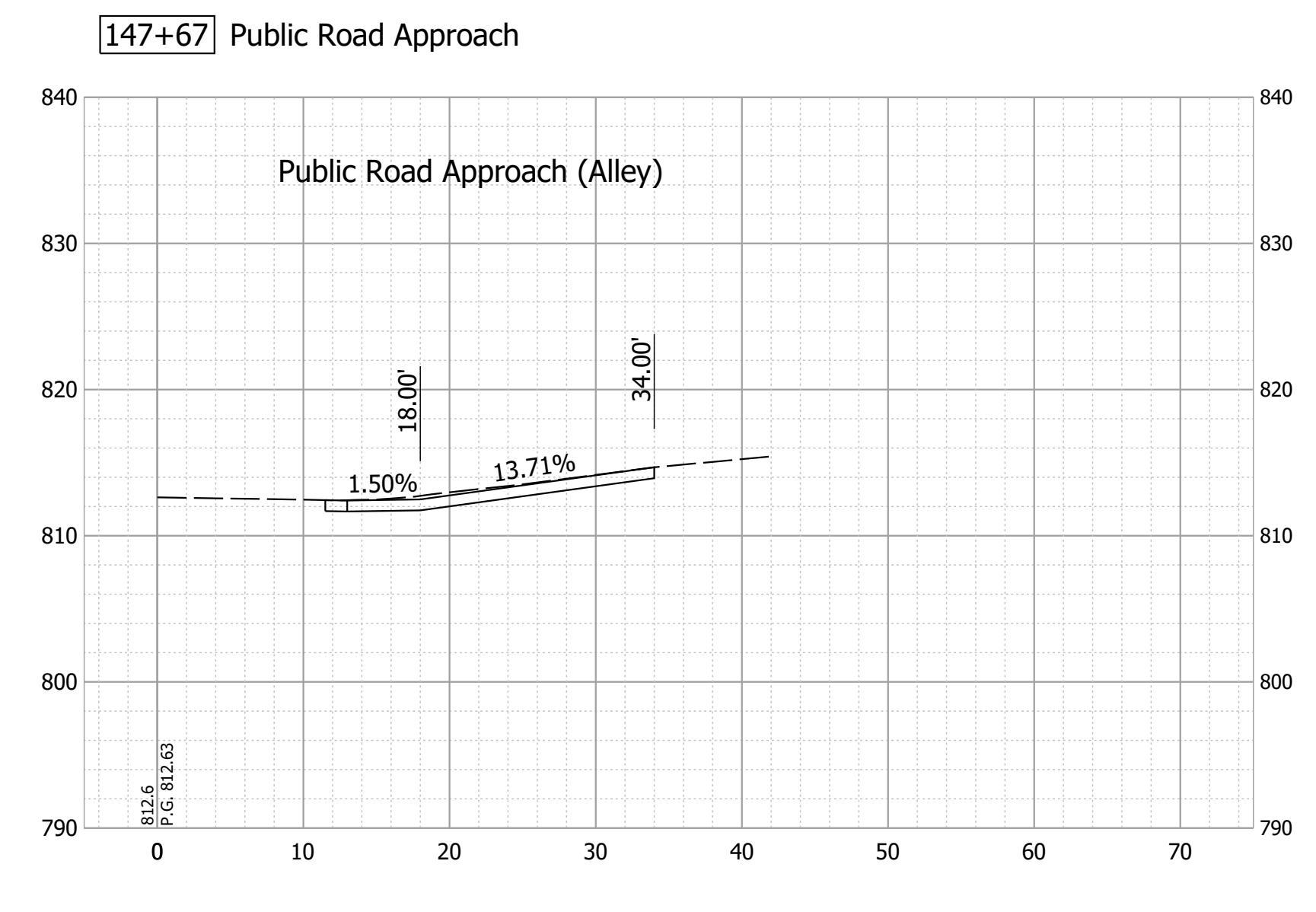


RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER	12/27/2021 DATE	17th STREET MULTI-USE PATH CONSTRUCTION PLANS CITY OF BLOOMINGTON, INDIANA	HORIZONTAL SCALE 1"=10'	BRIDGE FILE N/A
DESIGNED: JAF	DRAWN: DAG		VERTICAL SCALE 1"=10'	DESIGNATION N/A
CHECKED: NAW	CHECKED: JAF	CROSS SECTIONS - LINE "PR-A"	SURVEY BOOK	SHEETS 55 of 56
			CONTRACT	PROJECT

Date: Mar 11, 2022, 4:33pm User Name: TLyons
 File: S:_2019\119-0055\Road_East Phase\CAD\CrossSection\Sheet PR-A.dwg



END PROJECT
 Sta. 147+90.50



RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER	12/27/2021 DATE	17th STREET MULTI-USE PATH CONSTRUCTION PLANS CITY OF BLOOMINGTON, INDIANA		HORIZONTAL SCALE	BRIDGE FILE
				1"=10'	N/A
DESIGNED: JAF	DRAWN: DAG	CROSS SECTIONS - LINE "PR-A"		VERTICAL SCALE	DESIGNATION
CHECKED: NAW	CHECKED: JAF			1"=10'	N/A
				SURVEY BOOK	SHEETS
				CONTRACT	56 of 56
					PROJECT
