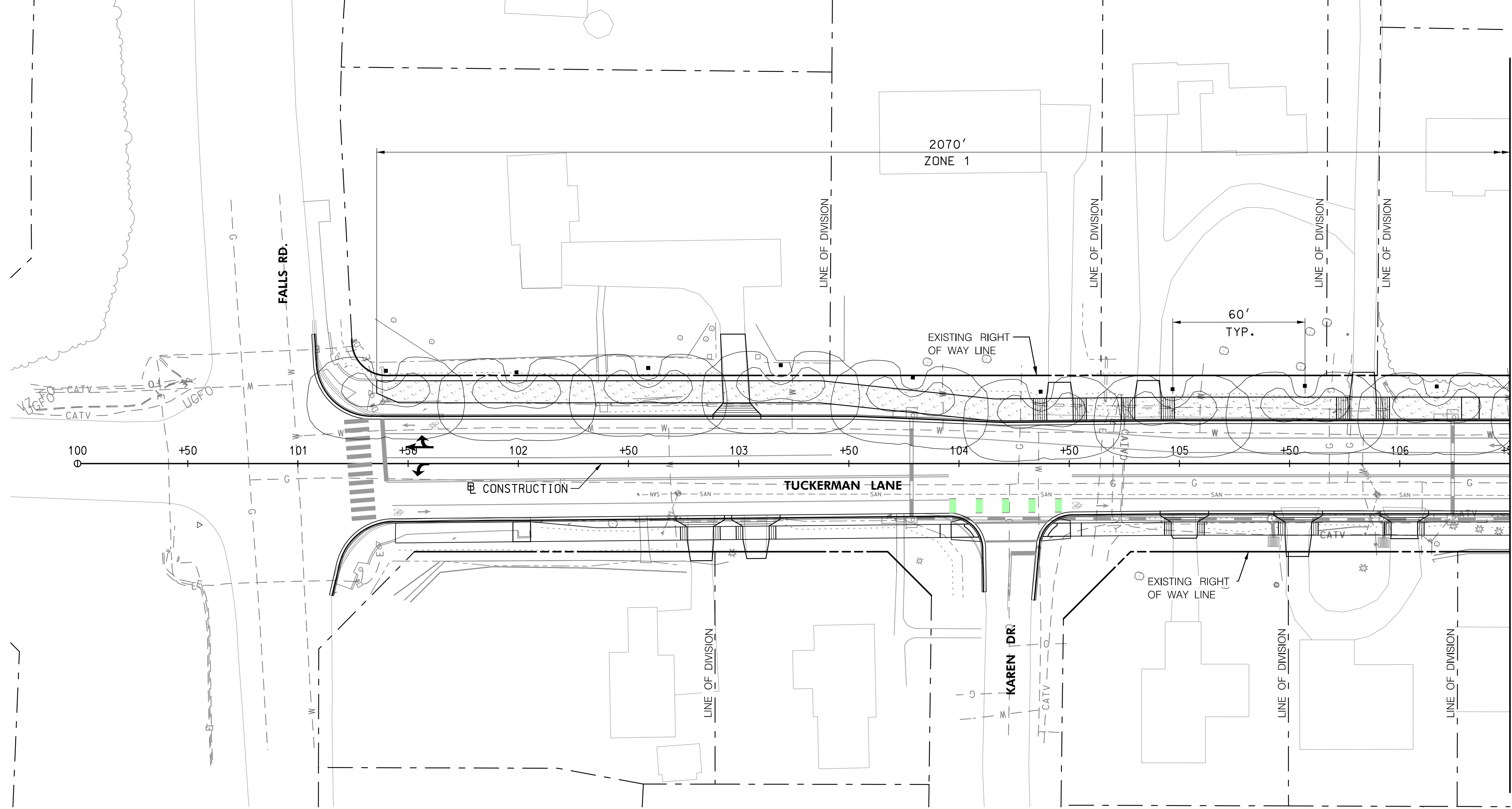
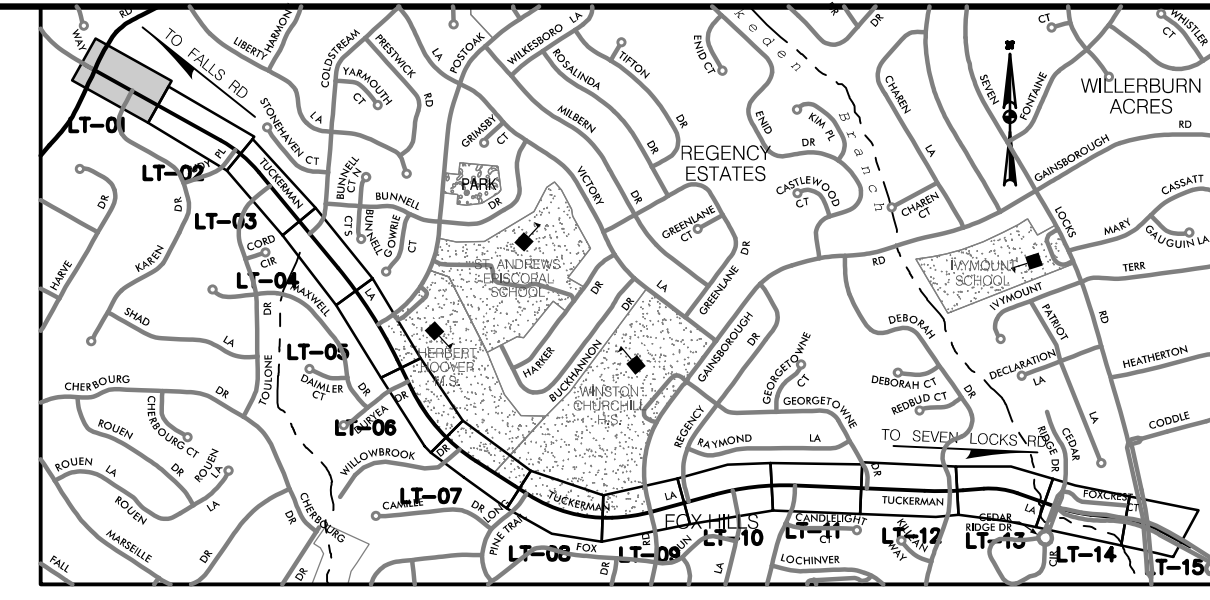


FALLS CHAPEL WAY

SEVEN LOCKS RD



MATCH LINE STA. 106+50 - SEE DWG. NO. LT-02

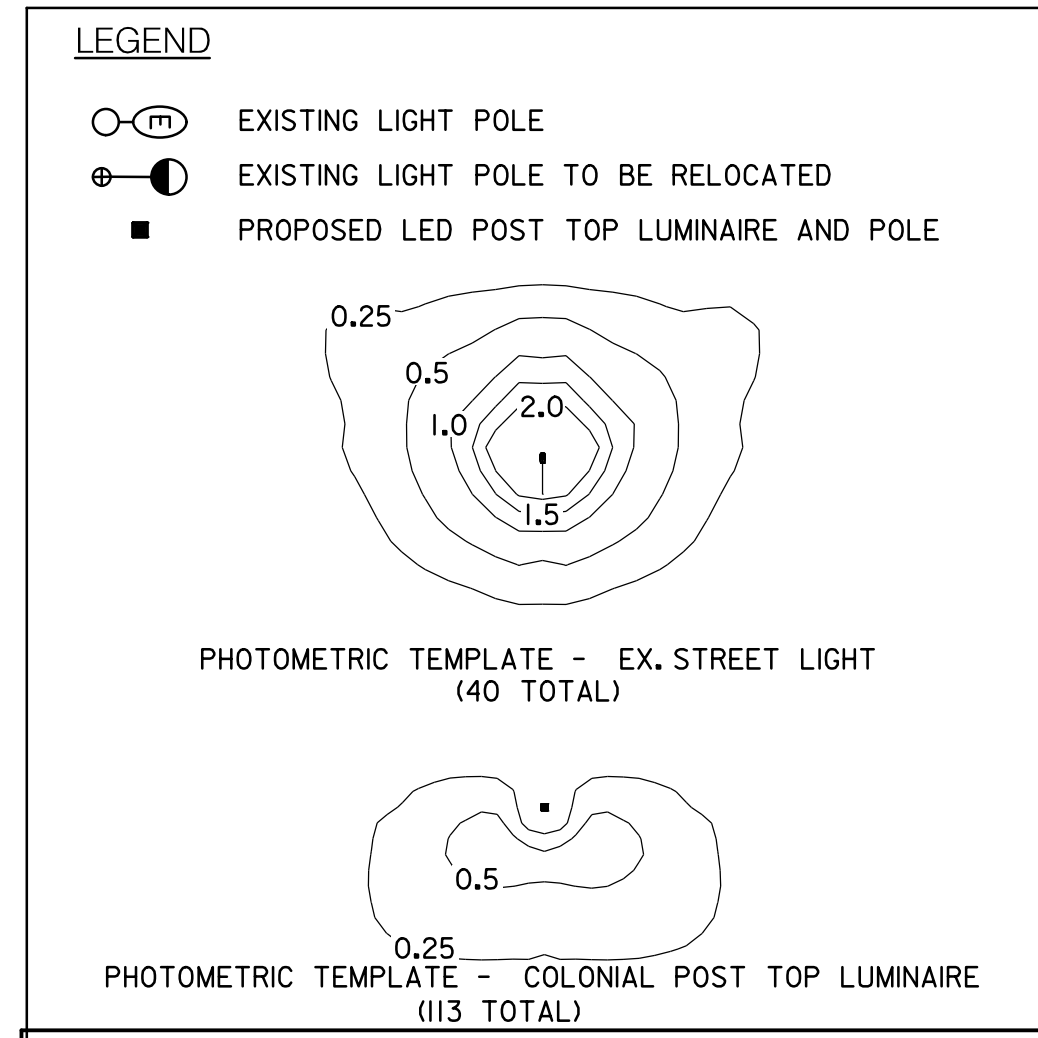


LOCATION MAP
SCALE 1"=1500'

LIGHTING CALCULATIONS FOR TUCKERMAN LANE

Lighting Calculation Zone	Roadway Classification	Maximum Illuminance Level (fc)	Minimum Illuminance Level (fc)	Average Illuminance (E _{avg}) Min (fc) Recommended	Average Illuminance (E _{avg}) Min (fc) Calculated	Uniformity Ratio (E _{avg} /E _{min}) Max Recommended	Uniformity Ratio (E _{avg} /E _{min}) Max Calculated
Zone 1 - From MD 189 to Coldstream Dr	Major/Collector	3.20	0.30	0.40	0.83	4.00	2.77
Zone 2 - From Coldstream Dr to Postoak Rd	Major/Collector	3.10	0.40	0.40	0.96	4.00	2.40
Zone 3 - From Postoak Rd to Duryea Dr	Major/Collector	3.20	0.40	0.40	1.12	4.00	2.80
Zone 4 - From Duryea Dr to Gainsborough Rd	Major/Collector	3.10	0.20	0.40	0.72	4.00	3.60
Zone 5 - From Gainsborough Rd to Regency Dr	Major/Collector	3.10	0.20	0.40	0.77	4.00	3.85
Zone 6 - From Regency Dr to Georgetowne Dr	Major/Collector	3.20	0.30	0.40	1.15	4.00	3.83
Zone 7 - From Georgetowne Dr to Deborah Dr	Major/Collector	3.20	0.30	0.40	1.01	4.00	3.37
Zone 8 - From Deborah Dr to Cedar Ridge Dr	Major/Collector	3.10	0.30	0.40	1.09	4.00	3.63
Zone 9 - From Cedar Ridge Dr to Seven Locks Rd	Major/Collector	0.70	0.20	0.40	0.58	4.00	2.90

Recommended Intersection Values from Table D1 : Illuminance Method - Recommended Maintained Values of the ANSI / IESNA RP-8-00



TAX MAPS: HQ31, HQ32, Q0121 WSSC GRIDS: 215NW09, 214NW09, 214NW08

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: R.W.M. Drawn by: S.X. Checked by: J.L.R.

**PLAN SHEET LT-01
LIGHTING PLANS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 100+00 TO STA. 106+50**

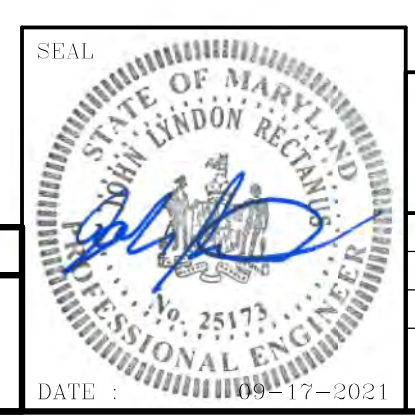
SCALE: 1"=30' 10/2021

Project No.: C.I.P. PR. # 509337 SHEET 105 of 175

PROFESSIONAL CERTIFICATION

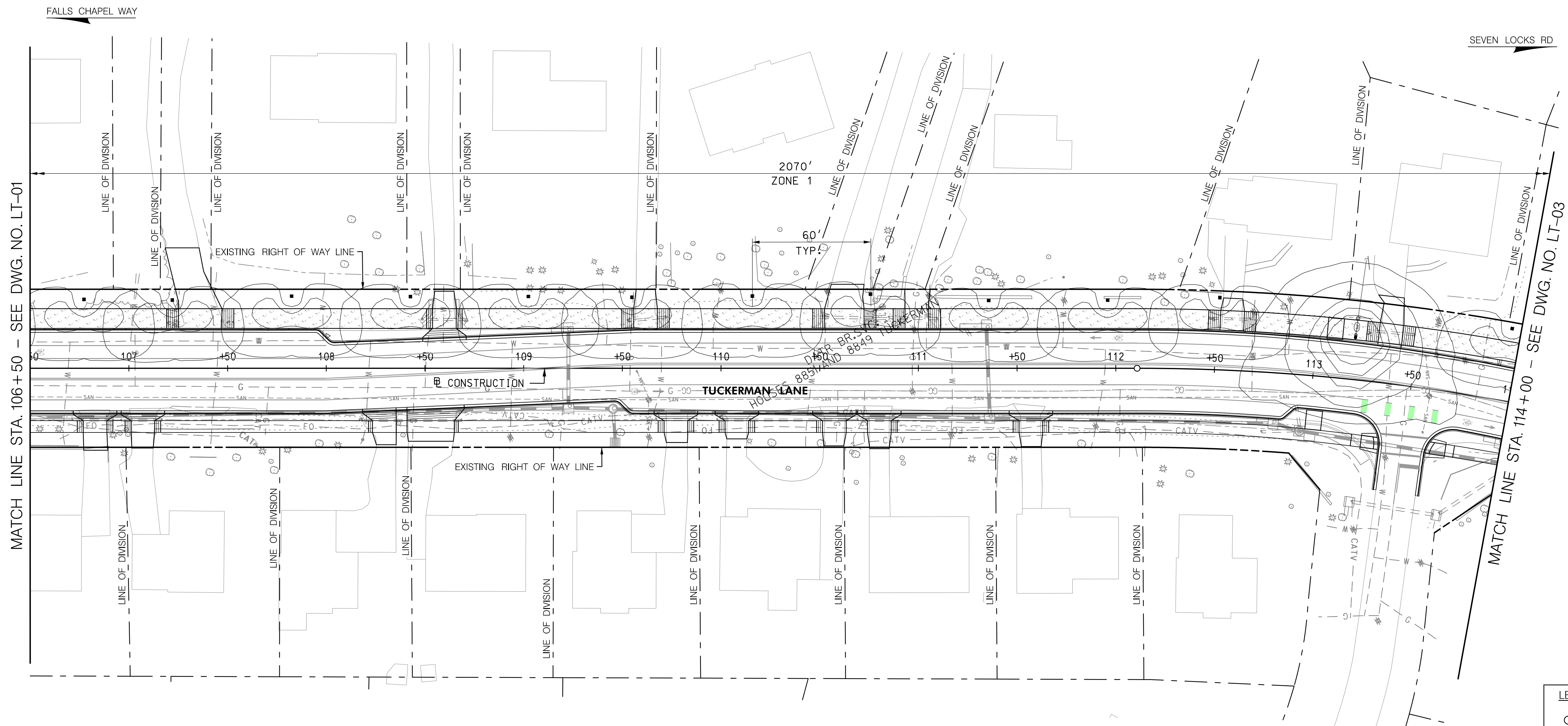
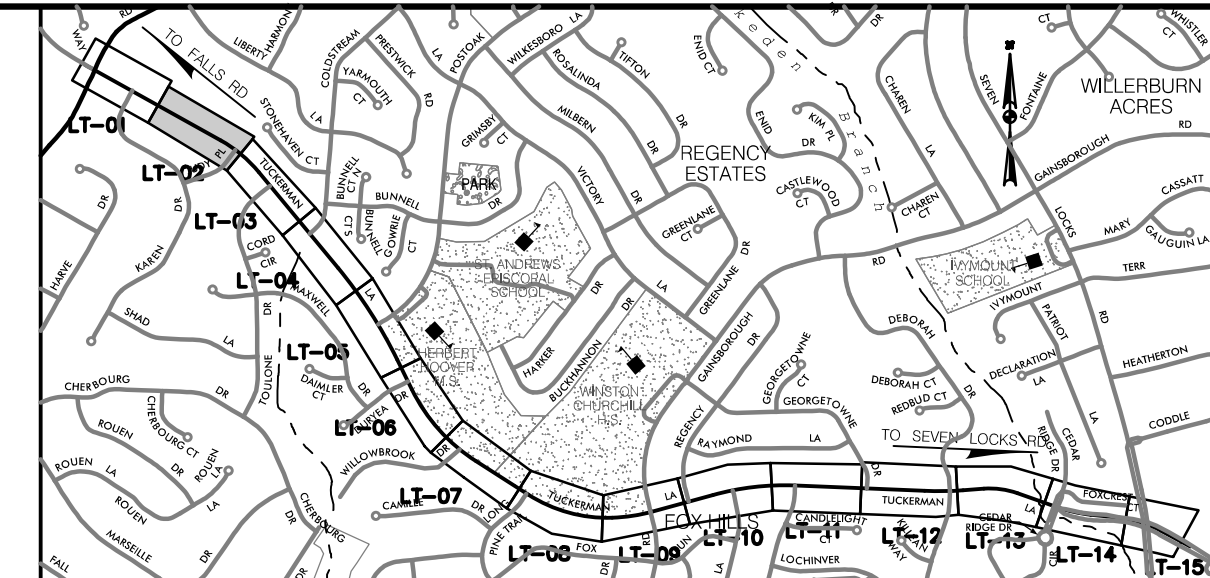
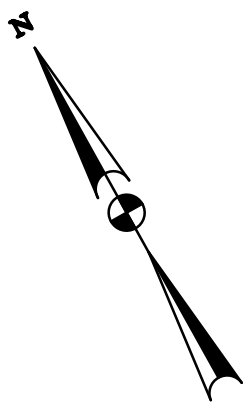
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

JOHN L. RECTANUS MD NO-25173 EXP-06/21/2023



WALLACE MONTGOMERY
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
10150 York Road, Suite 200
Hunt Valley, Maryland 21030
410.494.9093 | Fax: 410.967.0925
www.WallaceMontgomery.com

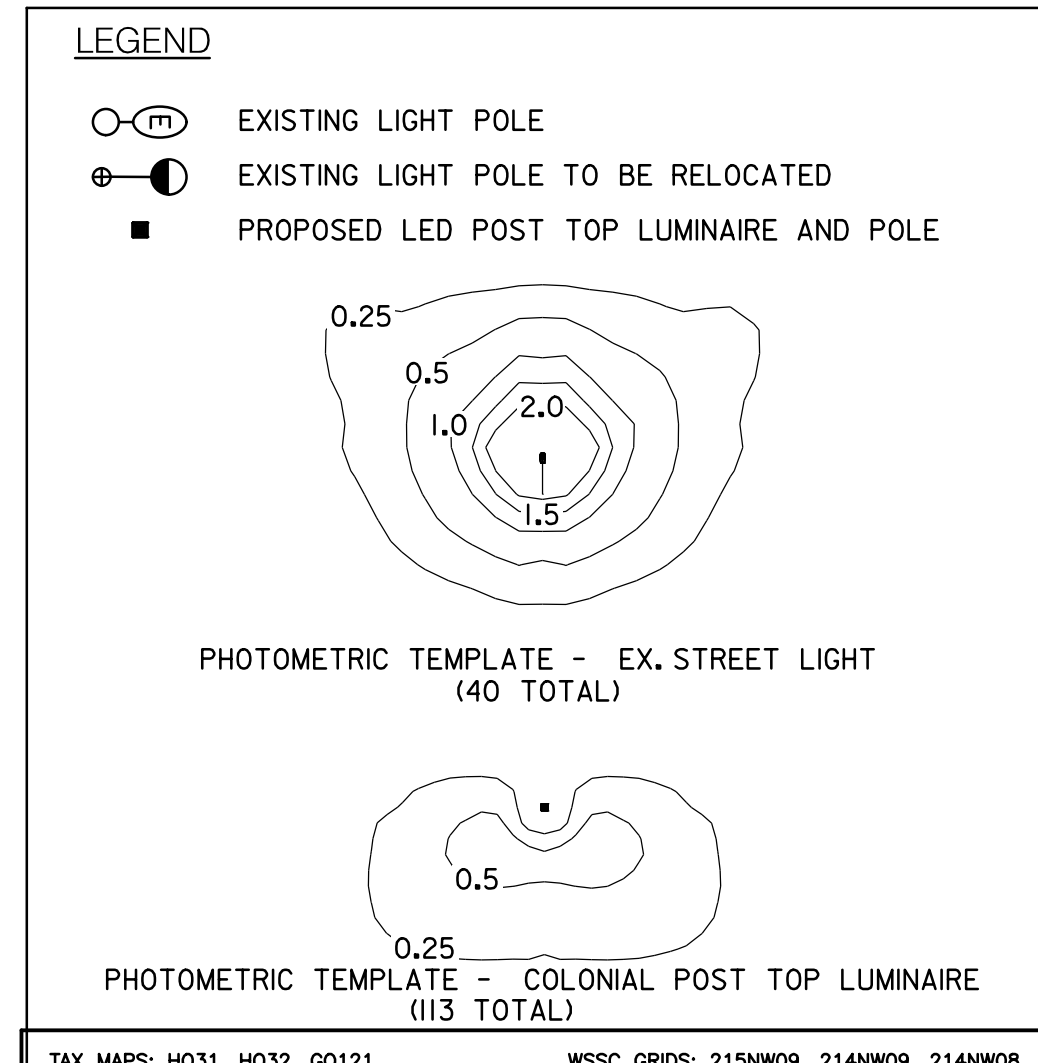
BY: sabbasgholipour -



LIGHTING CALCULATIONS FOR TUCKERMAN LANE

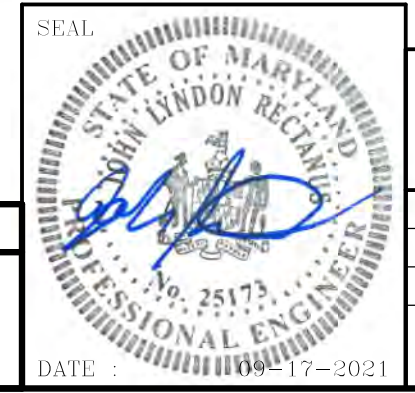
Lighting Calculation Zone	Roadway Classification	Maximum Illuminance Level (fc)	Minimum Illuminance Level (fc)	Average Illuminance (E _{avg}) Min (fc) Recommended	Average Illuminance (E _{avg}) Min (fc) Calculated	Uniformity Ratio (E _{avg} /E _{min}) Max Recommended	Uniformity Ratio (E _{avg} /E _{min}) Max Calculated
Zone 1 - From MD 189 to Coldstream Dr	Major/Collector	3.20	0.30	0.40	0.83	4.00	2.77
Zone 2 - From Coldstream Dr to Post oak Rd	Major/Collector	3.10	0.40	0.40	0.96	4.00	2.40
Zone 3 - From Post oak Rd to Duryea Dr	Major/Collector	3.20	0.40	0.40	1.12	4.00	2.80
Zone 4 - From Duryea Dr to Gainsborough Rd	Major/Collector	3.10	0.20	0.40	0.72	4.00	3.60
Zone 5 - From Gainsborough Rd to Regency Dr	Major/Collector	3.10	0.20	0.40	0.77	4.00	3.85
Zone 6 - From Regency Dr to Georgetowne Dr	Major/Collector	3.20	0.30	0.40	1.15	4.00	3.83
Zone 7 - From Georgetowne Dr to Deborah Dr	Major/Collector	3.20	0.30	0.40	1.01	4.00	3.37
Zone 8 - From Deborah Dr to Cedar Ridge Dr	Major/Collector	3.10	0.30	0.40	1.09	4.00	3.63
Zone 9 - From Cedar Ridge Dr to Seven Locks Rd	Major/Collector	0.70	0.20	0.40	0.58	4.00	2.90

Recommended Intersection Values from Table D1 : Illuminance Method - Recommended Maintained Values of the ANSI / IESNA RP-8-00



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PROFESSIONAL CERTIFICATION
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 JOHN L. RECTANUS MD NO-25173 EXP-06/21/2023



35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by : R.W.M. Drawn by : S.X. Checked by : J.L.R.

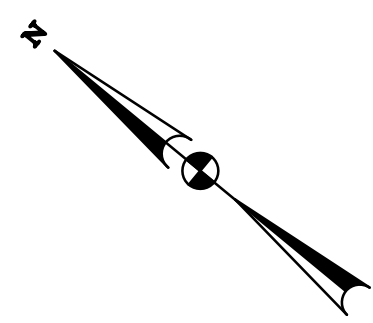
TAX MAPS: HQ31, HQ32, Q0121 WSSC GRIDS: 215N09, 214N09, 214N08

**PLAN SHEET LT-02
 LIGHTING PLANS
 TUCKERMAN LANE
 SIDEWALK/BIKEWAY
 PROJECT - SEGMENT 1
 STA. 106+50 TO STA. 114+00**

SCALE: 1"=30' 10/2021

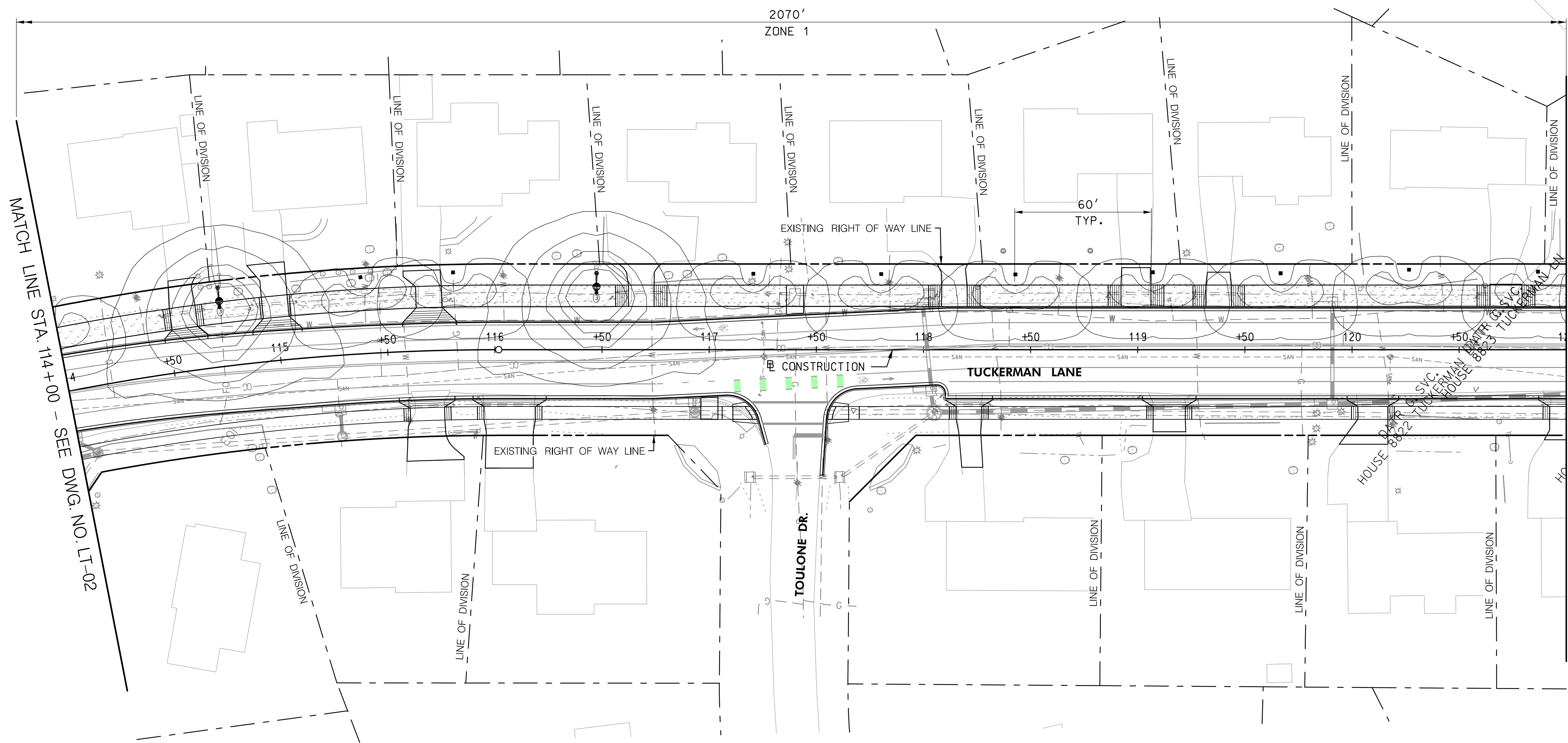
Project No. : C.I.P. PR. # 509337 SHEET 106 of 175

BY: sabbasgholipour

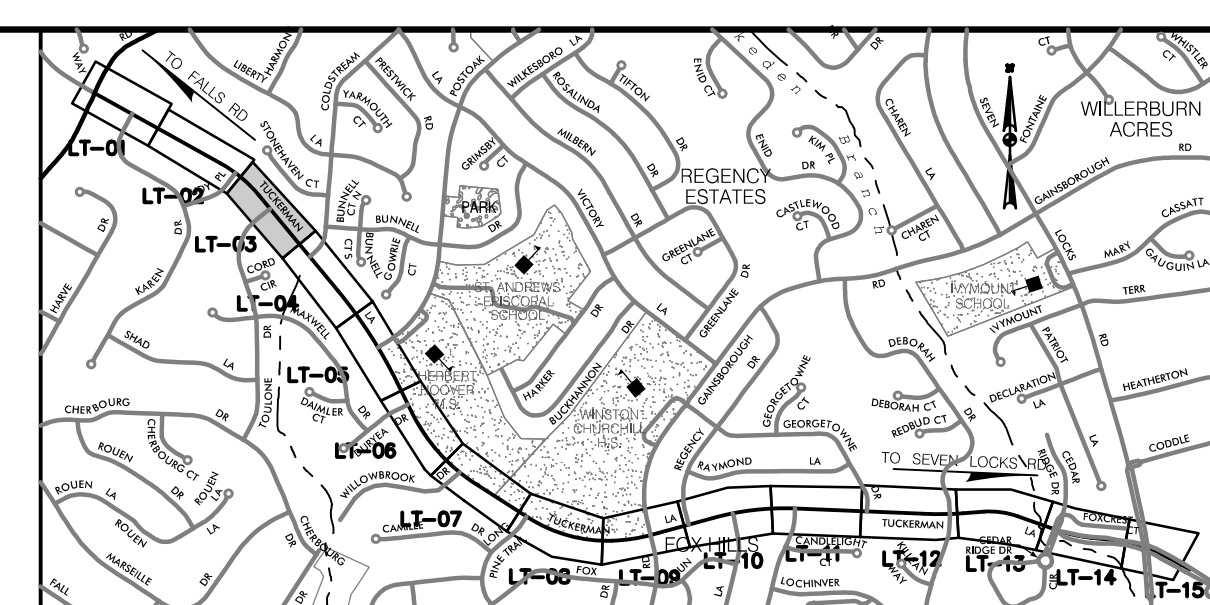


FALLS CHAPEL WAY

SEVEN LOCKS RD



MATCH LINE STA. 121+00 - SEE DWG. NO. LT-04

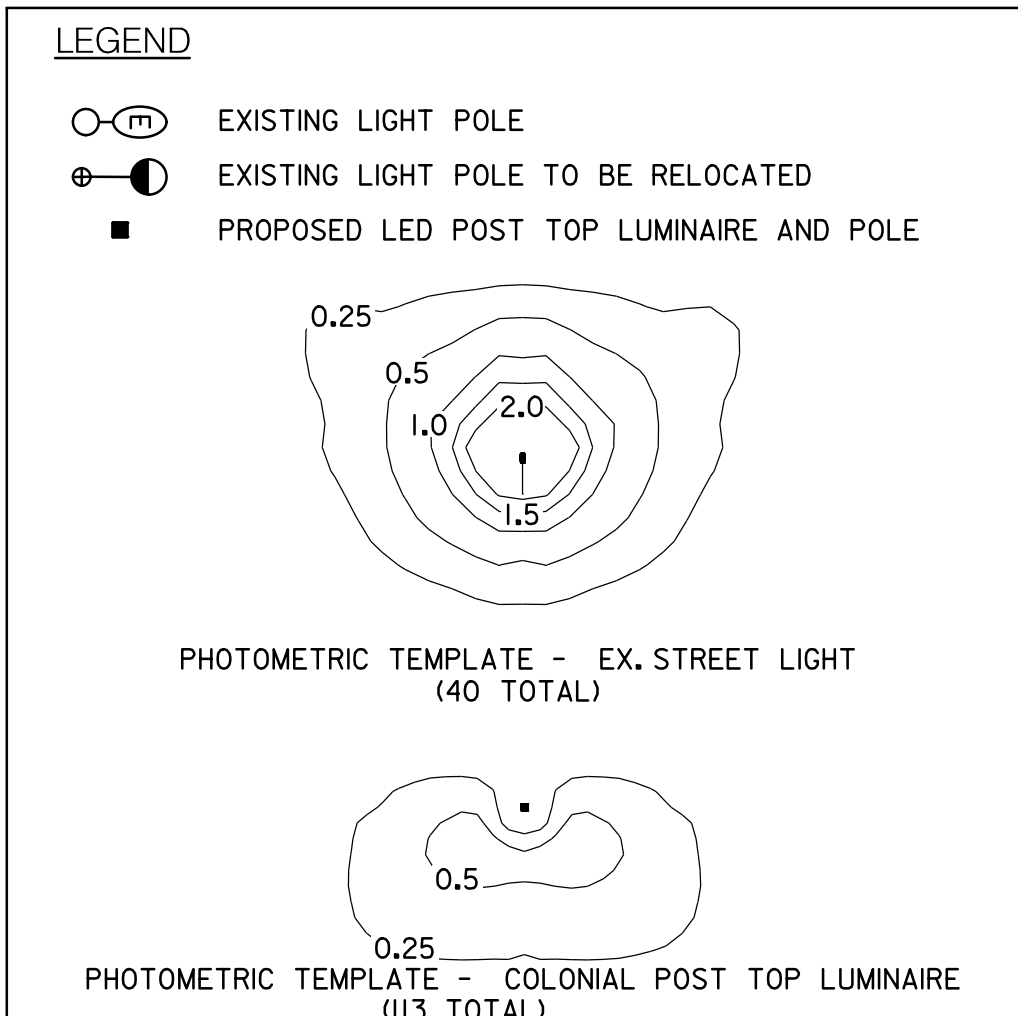


LOCATION MAP
SCALE 1"=1500"

LIGHTING CALCULATIONS FOR TUCKERMAN LANE

Lighting Calculation Zone	Roadway Classification	Maximum Illuminance Level (fc)	Minimum Illuminance Level (fc)	Average Illuminance (E _{avg}) Min (fc) Recommended	Average Illuminance (E _{avg}) Min (fc) Calculated	Uniformity Ratio (E _{avg} /E _{min}) Max Recommended	Uniformity Ratio (E _{avg} /E _{min}) Max Calculated
Zone 1 - From MD 189 to Coldstream Dr	Major/Collector	3.20	0.30	0.40	0.83	4.00	2.77
Zone 2 - From Coldstream Dr to Post oak Rd	Major/Collector	3.10	0.40	0.40	0.96	4.00	2.40
Zone 3 - From Post oak Rd to Duryea Dr	Major/Collector	3.20	0.40	0.40	1.12	4.00	2.80
Zone 4 - From Duryea Dr to Gainsborough Rd	Major/Collector	3.10	0.20	0.40	0.72	4.00	3.60
Zone 5 - From Gainsborough Rd to Regency Dr	Major/Collector	3.10	0.20	0.40	0.77	4.00	3.85
Zone 6 - From Regency Dr to Georgetowne Dr	Major/Collector	3.20	0.30	0.40	1.15	4.00	3.83
Zone 7 - From Georgetowne Dr to Deborah Dr	Major/Collector	3.20	0.30	0.40	1.01	4.00	3.37
Zone 8 - From Deborah Dr to Cedar Ridge Dr	Major/Collector	3.10	0.30	0.40	1.09	4.00	3.63
Zone 9 - From Cedar Ridge Dr to Seven Locks Rd	Major/Collector	0.70	0.20	0.40	0.58	4.00	2.90

Recommended Intersection Values from Table D1 : Illuminance Method - Recommended Maintained Values of the ANSI / IESNA RP-8-00



TAX MAPS: HQ31, HQ32, Q0121 WSSC GRIDS: 215NW09, 214NW09, 214NW08

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: R.W.M. Drawn by: S.X. Checked by: J.L.R.

**PLAN SHEET LT-03
LIGHTING PLANS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SGEMENT 1
STA. 114+00 TO STA. 121+00**

SCALE: 1"= 30' 10/2021

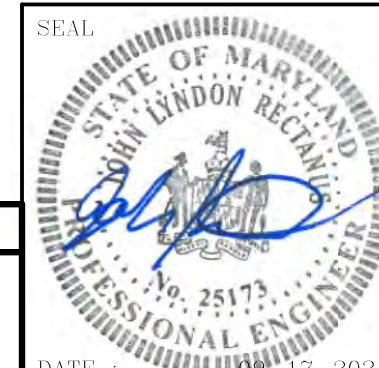
Project No.: C.I.P. PR. # 509337 SHEET 107 of 175

PROFESSIONAL CERTIFICATION

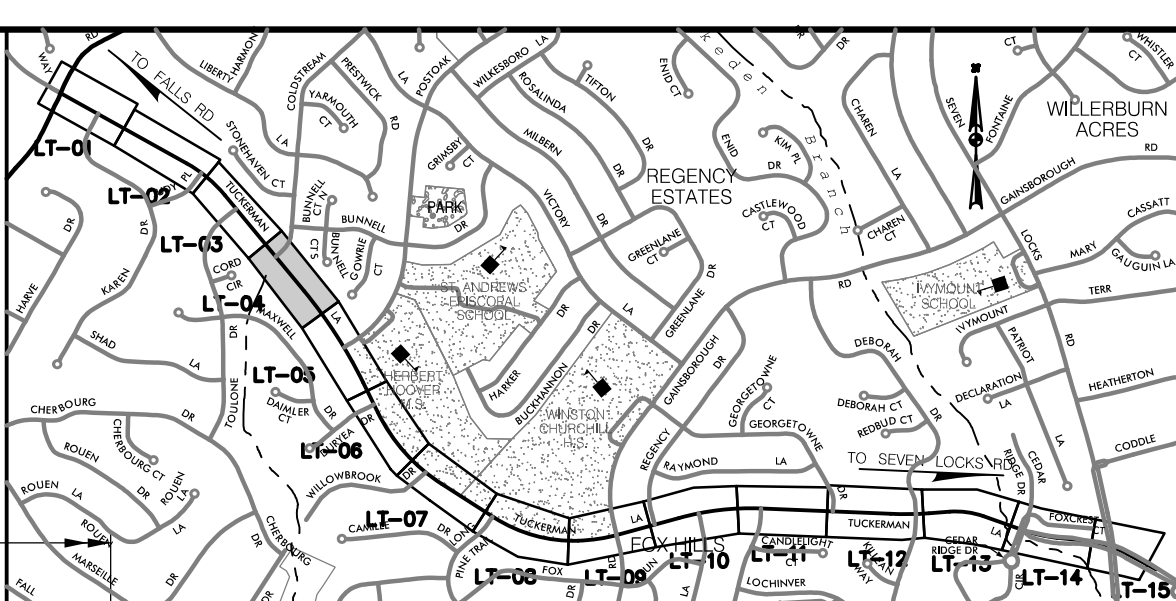
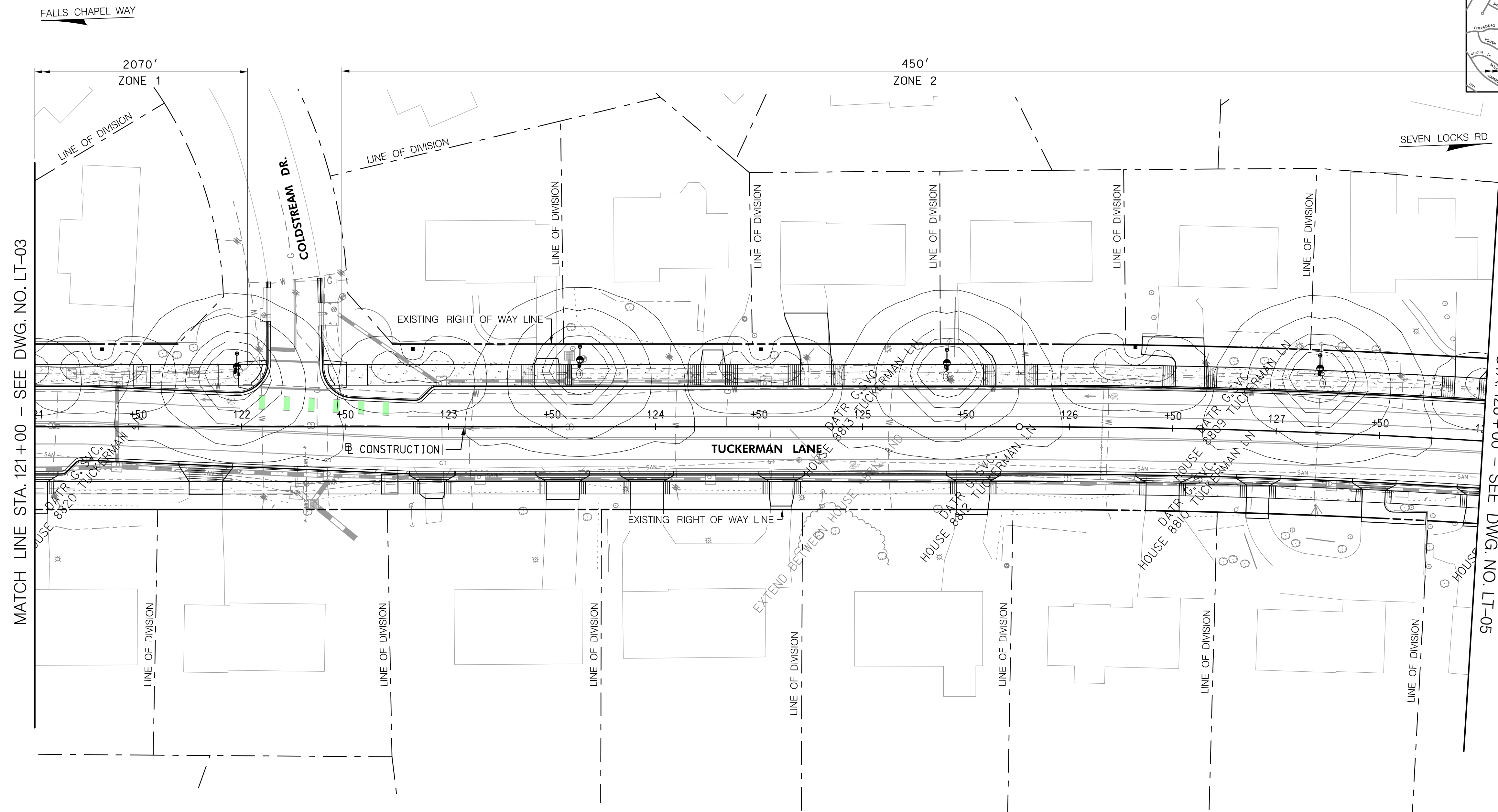
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

JOHN L. RECTANUS MD NO-25173 EXP-06/21/2023

DATE: 10-17-2021



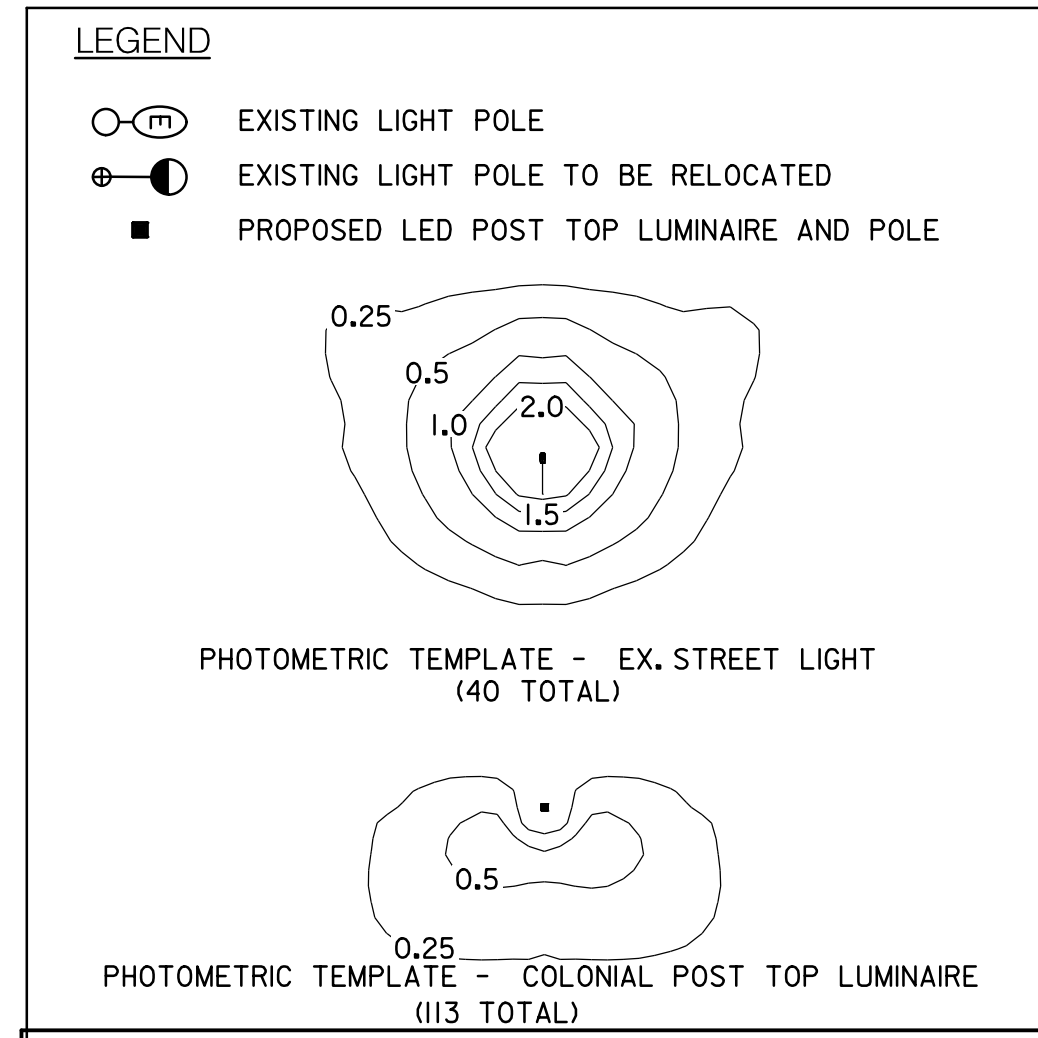
BY: sabbasgholipour -



LIGHTING CALCULATIONS FOR TUCKERMAN LANE

Lighting Calculation Zone	Roadway Classification	Maximum Illuminance Level (fc)	Minimum Illuminance Level (fc)	Average Illuminance (E _{avg}) Min (fc) Recommended	Average Illuminance (E _{avg}) Min (fc) Calculated	Uniformity Ratio (E _{avg} /E _{min}) Max Recommended	Uniformity Ratio (E _{avg} /E _{min}) Max Calculated
Zone 1 - From MD 189 to Coldstream Dr	Major/Collector	3.20	0.30	0.40	0.83	4.00	2.77
Zone 2 - From Coldstream Dr to Postoak Rd	Major/Collector	3.10	0.40	0.40	0.96	4.00	2.40
Zone 3 - From Postoak Rd to Duryea Dr	Major/Collector	3.20	0.40	0.40	1.12	4.00	2.80
Zone 4 - From Duryea Dr to Gainsborough Rd	Major/Collector	3.10	0.20	0.40	0.72	4.00	3.60
Zone 5 - From Gainsborough Rd to Regency Dr	Major/Collector	3.10	0.20	0.40	0.77	4.00	3.85
Zone 6 - From Regency Dr to Georgetowne Dr	Major/Collector	3.20	0.30	0.40	1.15	4.00	3.83
Zone 7 - From Georgetowne Dr to Deborah Dr	Major/Collector	3.20	0.30	0.40	1.01	4.00	3.37
Zone 8 - From Deborah Dr to Cedar Ridge Dr	Major/Collector	3.10	0.30	0.40	1.09	4.00	3.63
Zone 9 - From Cedar Ridge Dr to Seven Locks Rd	Major/Collector	0.70	0.20	0.40	0.58	4.00	2.90

Recommended Intersection Values from Table D1 : Illuminance Method - Recommended Maintained Values of the ANSI / IESNA RP-8-00



35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____

APPROVED _____

Chief, Division of Engineering Services _____ Date _____

Designed by : R.W.M. Drawn by : S.X. Checked by : J.L.R.

PLAN SHEET LT-04
LIGHTING PLANS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 121+00 TO STA. 128+00

SCALE : 1" = 30'

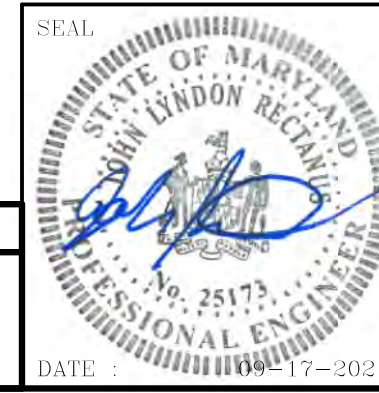
10/2021

Project No. : C.I.P. PR. # 509337 SHEET 108 of 175

PROFESSIONAL CERTIFICATION

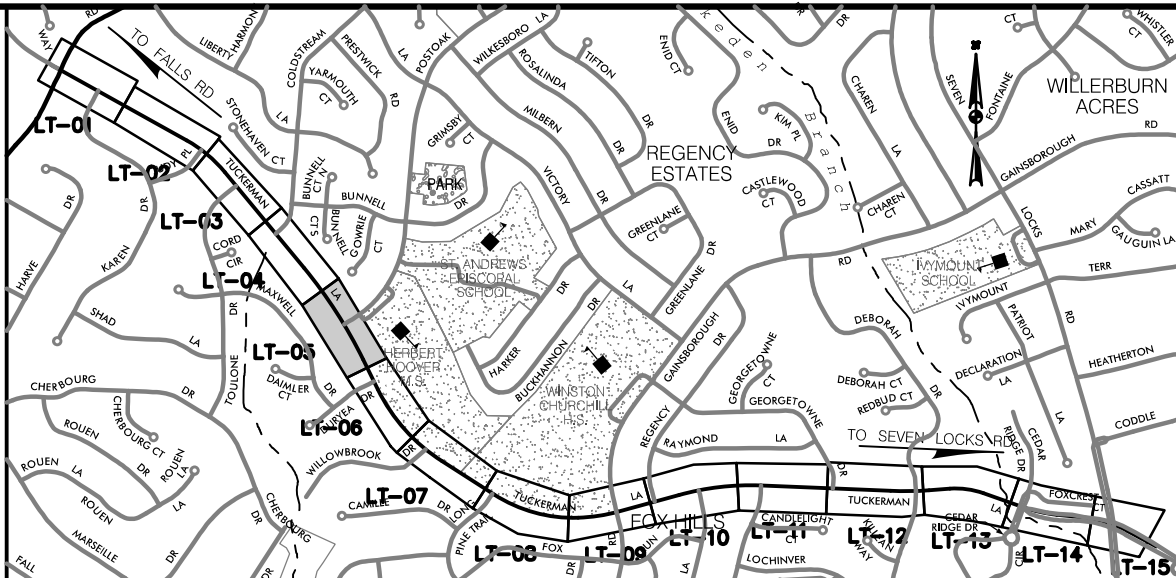
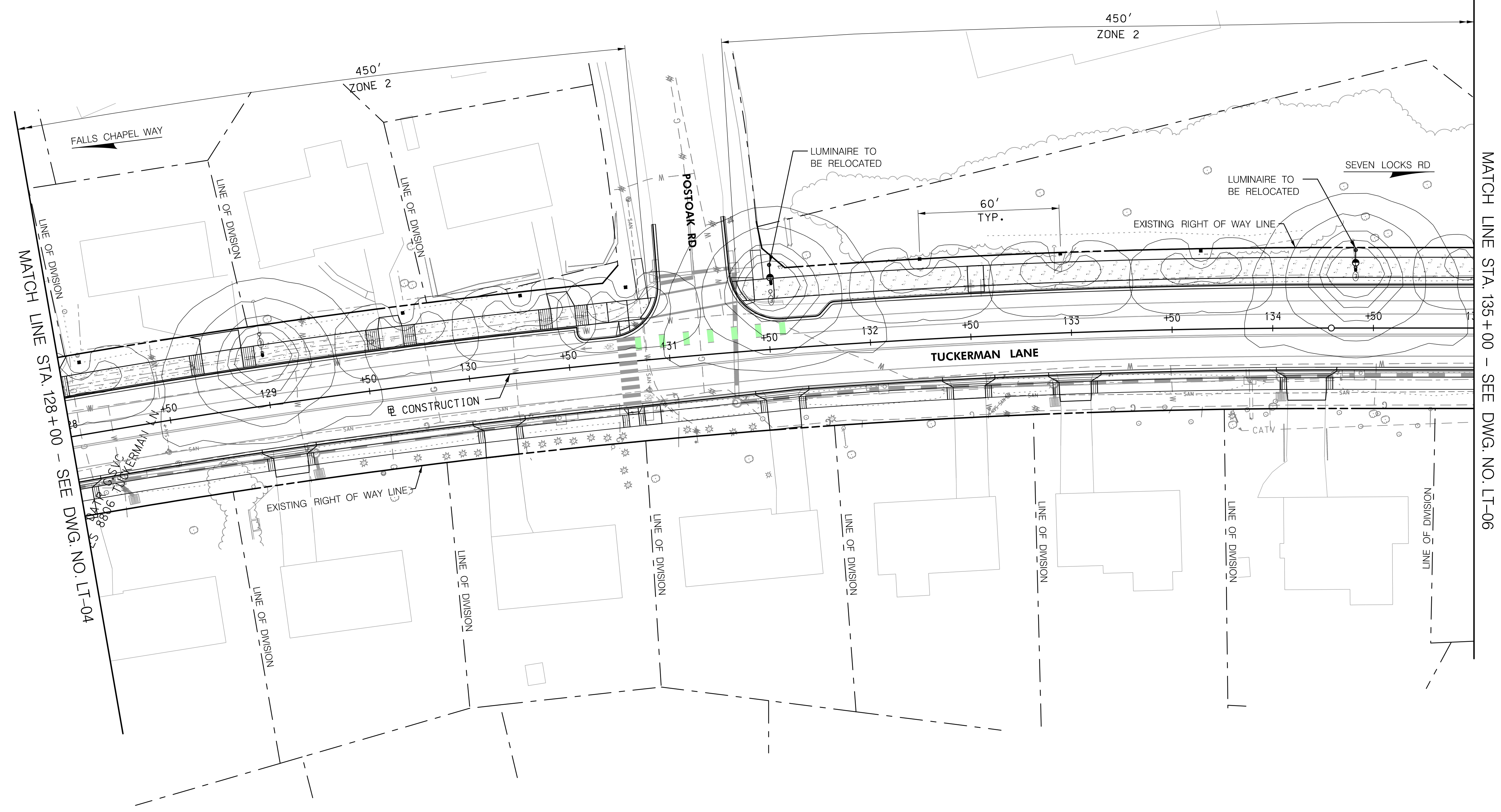
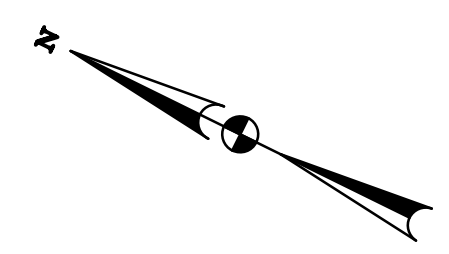
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JOHN L. RECTANUS MD NO. 25173 EXP-06/21/2023



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10150 York Road, Suite 200
Hunt Valley, Maryland 21030
410.494.9093 | Fax | 410.667.0925 Fax
www.WallaceMontgomery.com A Limited Liability Partnership

BY: sabbasgholipour



LOCATION MAP
SCALE 1"=1500'

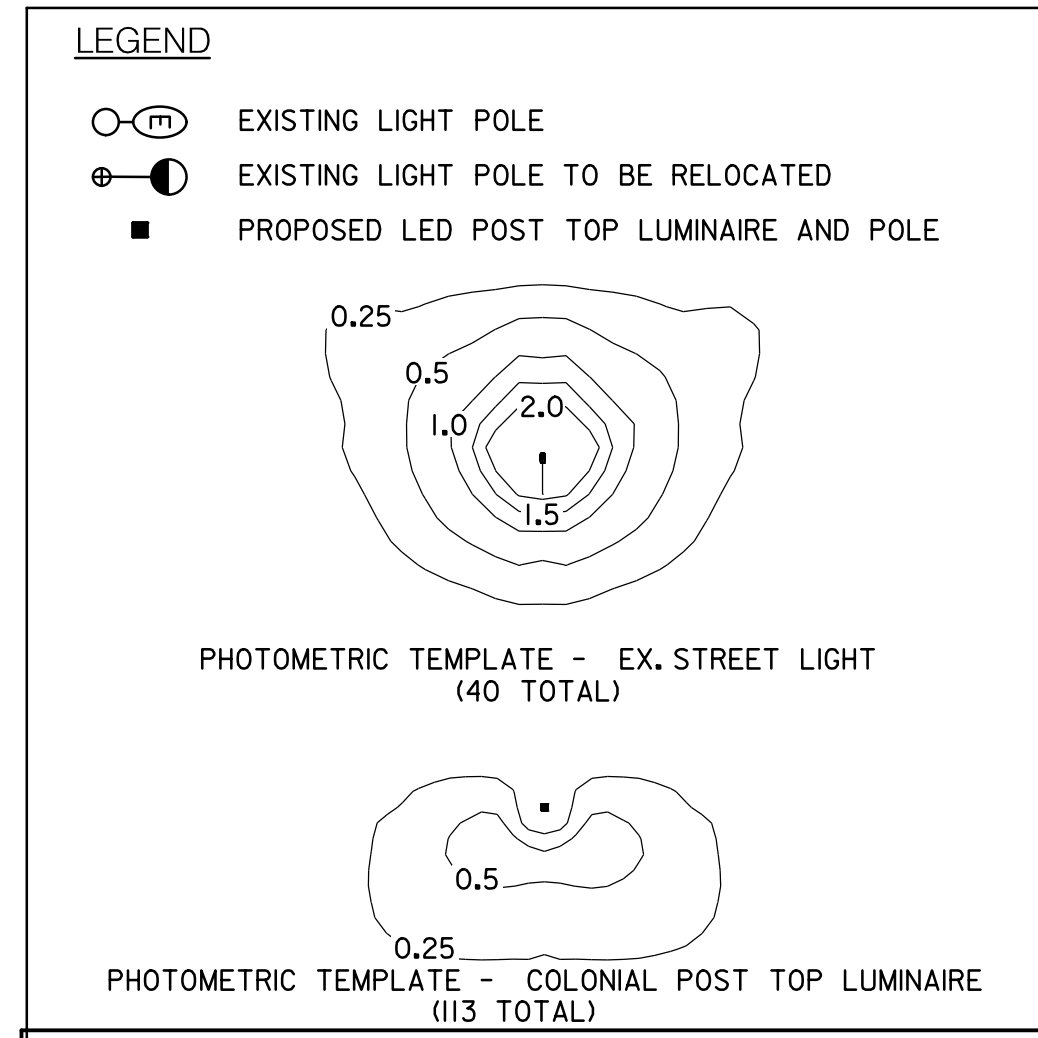
MATCH LINE STA. 135+00 - SEE DWG. NO. LT-06

MATCH LINE STA. 128+00 - SEE DWG. NO. LT-04

LIGHTING CALCULATIONS FOR TUCKERMAN LANE

Lighting Calculation Zone	Roadway Classification	Maximum Illuminance Level (fc)	Minimum Illuminance Level (fc)	Average Illuminance (E _{avg}) Min (fc) Recommended	Average Illuminance (E _{avg}) Min (fc) Calculated	Uniformity Ratio (E _{avg} /E _{min}) Max Recommended	Uniformity Ratio (E _{avg} /E _{min}) Max Calculated
Zone 1 - From MD 189 to Coldstream Dr	Major/Collector	3.20	0.30	0.40	0.83	4.00	2.77
Zone 2 - From Coldstream Dr to Postoak Rd	Major/Collector	3.10	0.40	0.40	0.96	4.00	2.40
Zone 3 - From Postoak Rd to Duryea Dr	Major/Collector	3.20	0.40	0.40	1.12	4.00	2.80
Zone 4 - From Duryea Dr to Gainsborough Rd	Major/Collector	3.10	0.20	0.40	0.72	4.00	3.60
Zone 5 - From Gainsborough Rd to Regency Dr	Major/Collector	3.10	0.20	0.40	0.77	4.00	3.85
Zone 6 - From Regency Dr to Georgetowne Dr	Major/Collector	3.20	0.30	0.40	1.15	4.00	3.83
Zone 7 - From Georgetowne Dr to Deborah Dr	Major/Collector	3.20	0.30	0.40	1.01	4.00	3.37
Zone 8 - From Deborah Dr to Cedar Ridge Dr	Major/Collector	3.10	0.30	0.40	1.09	4.00	3.63
Zone 9 - From Cedar Ridge Dr to Seven Locks Rd	Major/Collector	0.70	0.20	0.40	0.58	4.00	2.90

Recommended Intersection Values from Table D1 : Illuminance Method - Recommended Maintained Values of the ANSI / IESNA RP-8-00

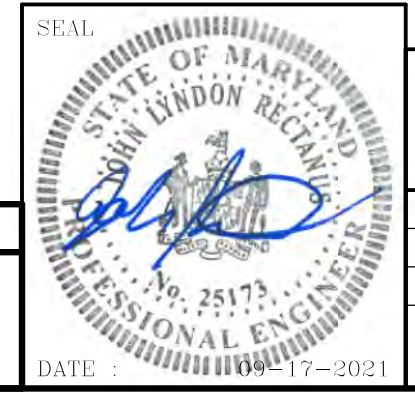


TAX MAPS: HQ31, HQ32, Q0121 WSSC GRIDS: 215NW09, 214NW09, 214NW08

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
JOHN L. RECTANUS MD NO-25173 EXP-06/21/2023



MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: R.W.M. Drawn by: S.X. Checked by: J.L.R.

**PLAN SHEET LT-05
LIGHTING PLANS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 128+00 TO STA. 135+00**

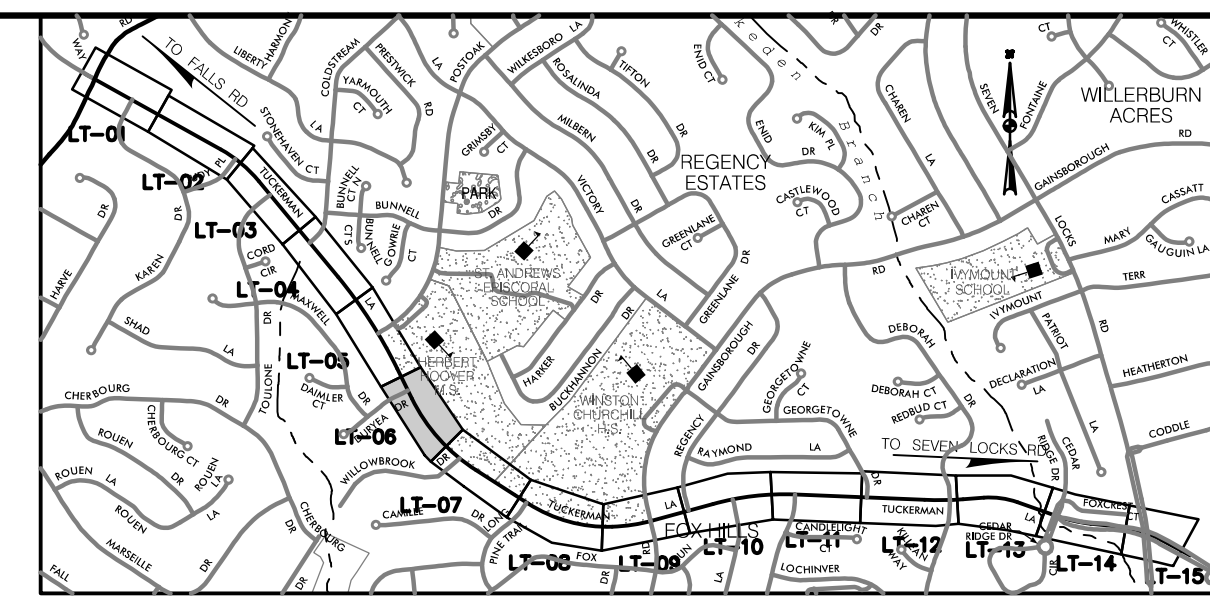
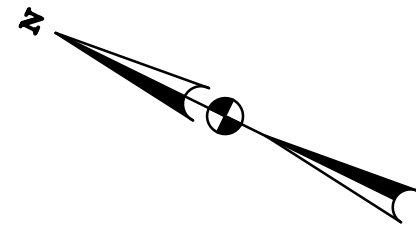
SCALE: 1"=30'

Project No.: C.I.P. PR. # 509337 SHEET 109 of 175

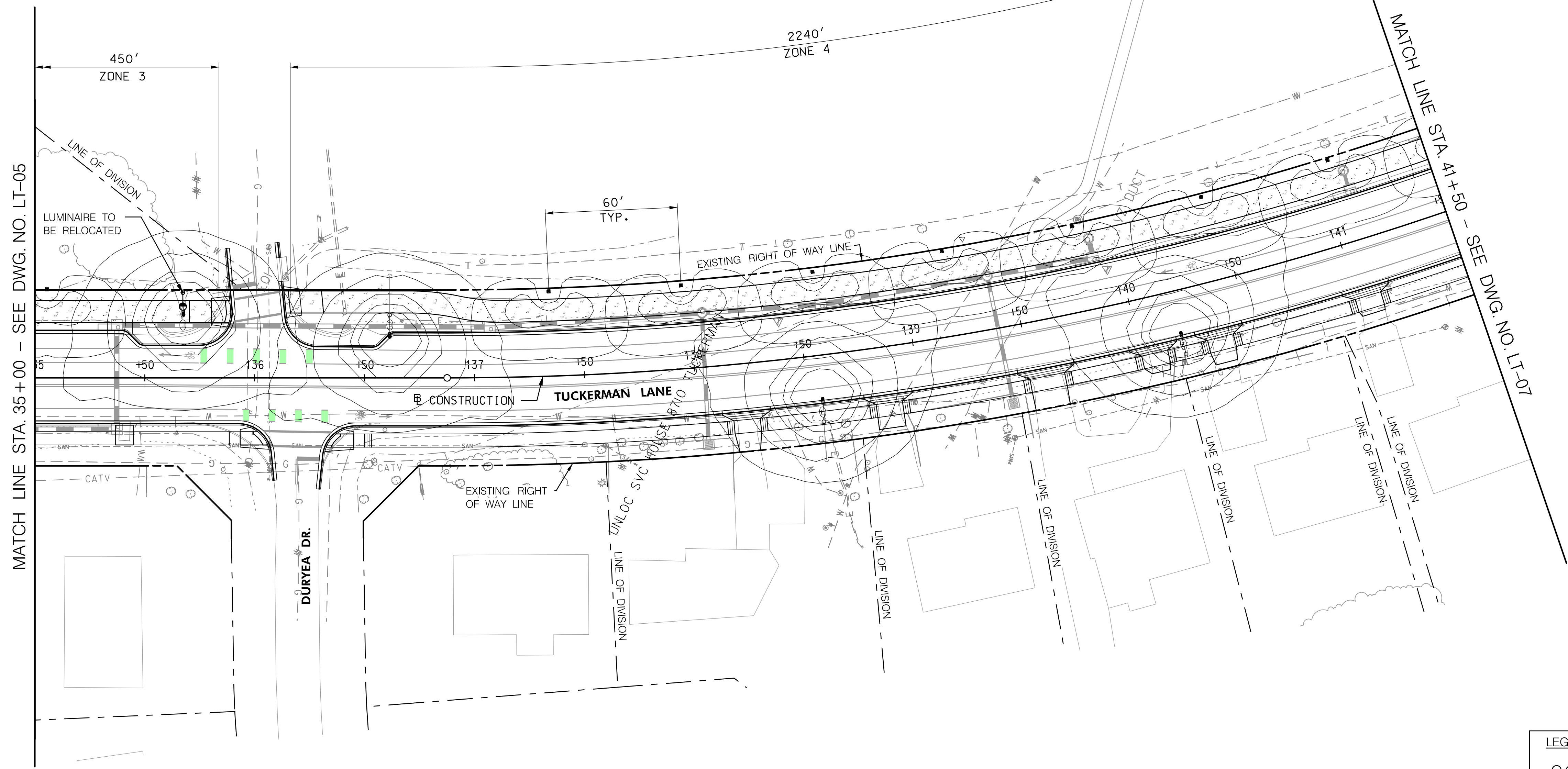
BY: sabbasgholipour -



PLOTTED: 3/8/2023
FILE: M:\PROJ\22015.00011\Traffic_Cadd\LT-T-005_Tuckerman.dgn



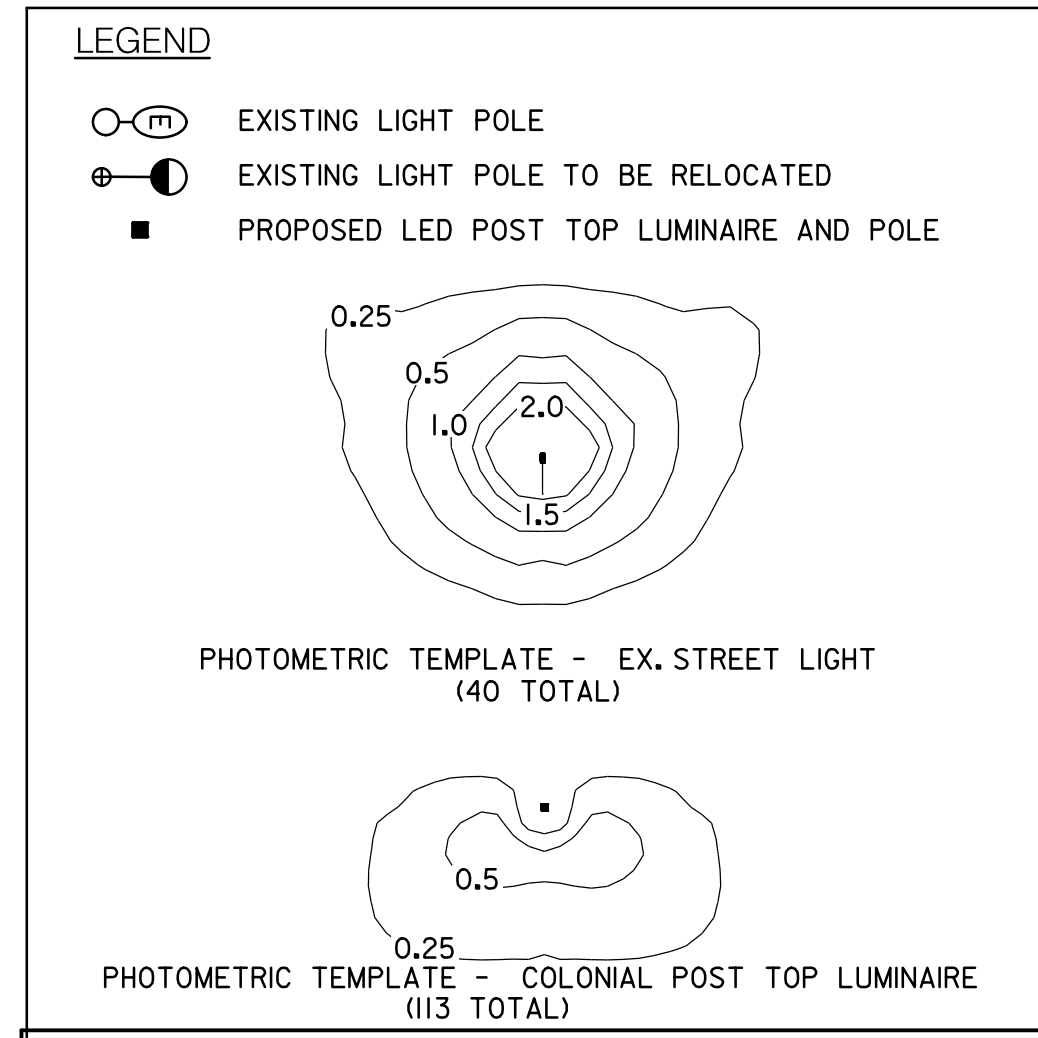
LOCATION MAP
SCALE 1"=1500'



LIGHTING CALCULATIONS FOR TUCKERMAN LANE

Lighting Calculation Zone	Roadway Classification	Maximum Illuminance Level (fc)	Minimum Illuminance Level (fc)	Average Illuminance (E _{avg}) Min (fc) Recommended	Average Illuminance (E _{avg}) Min (fc) Calculated	Uniformity Ratio (E _{avg} /E _{min}) Max Recommended	Uniformity Ratio (E _{avg} /E _{min}) Max Calculated
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Zone 7 - From Georgetowne Dr to Deborah Dr	Major/Collector	3.20	0.30	0.40	1.01	4.00	3.37
Zone 8 - From Deborah Dr to Cedar Ridge Dr	Major/Collector	3.10	0.30	0.40	1.09	4.00	3.63
Zone 9 - From Cedar Ridge Dr to Seven Locks Rd	Major/Collector	0.70	0.20	0.40	0.58	4.00	2.90

Recommended Intersection Values from Table D1 : Illuminance Method - Recommended Maintained Values of the ANSI / IESNA RP-8-00



TAX MAPS: HQ31, HQ32, Q0121 WSSC GRIDS: 215NW09, 214NW09, 214NW08

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by : R.W.M. Drawn by : S.X. Checked by : J.L.R.

**PLAN SHEET LT-06
LIGHTING PLANS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 135+00 TO STA. 141+50**

SCALE: 1"=30' 10/2021
Project No. : C.I.P. PR. # 509337 SHEET 110 of 175

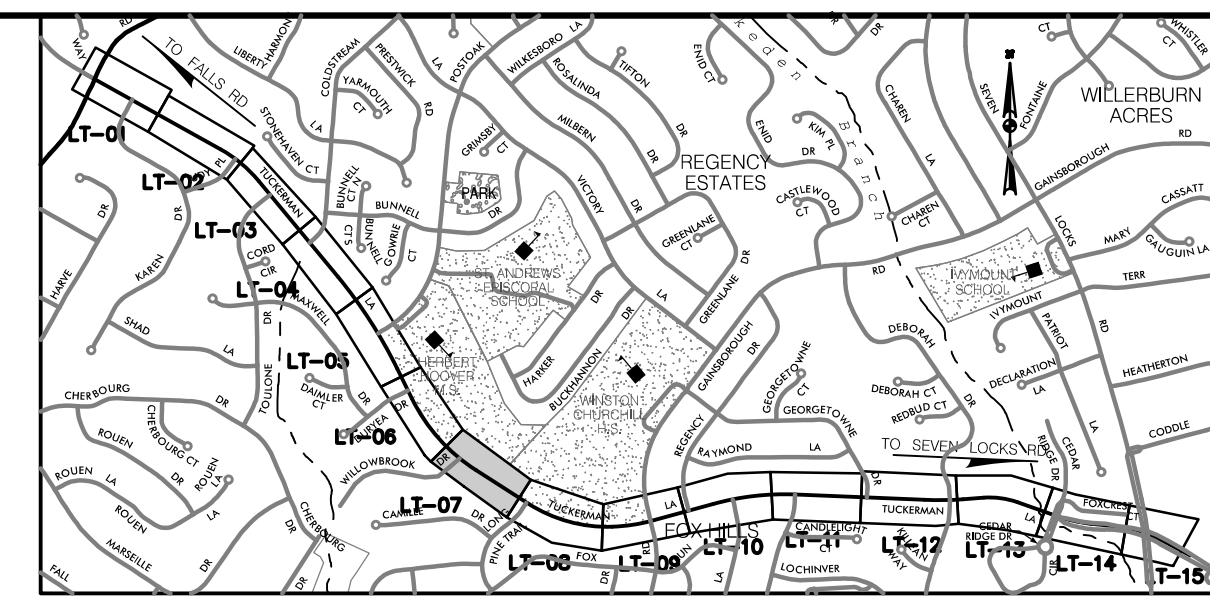
PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
JOHN L. RECTANUS MD NO-25173 EXP-06/21/2023

SEAL

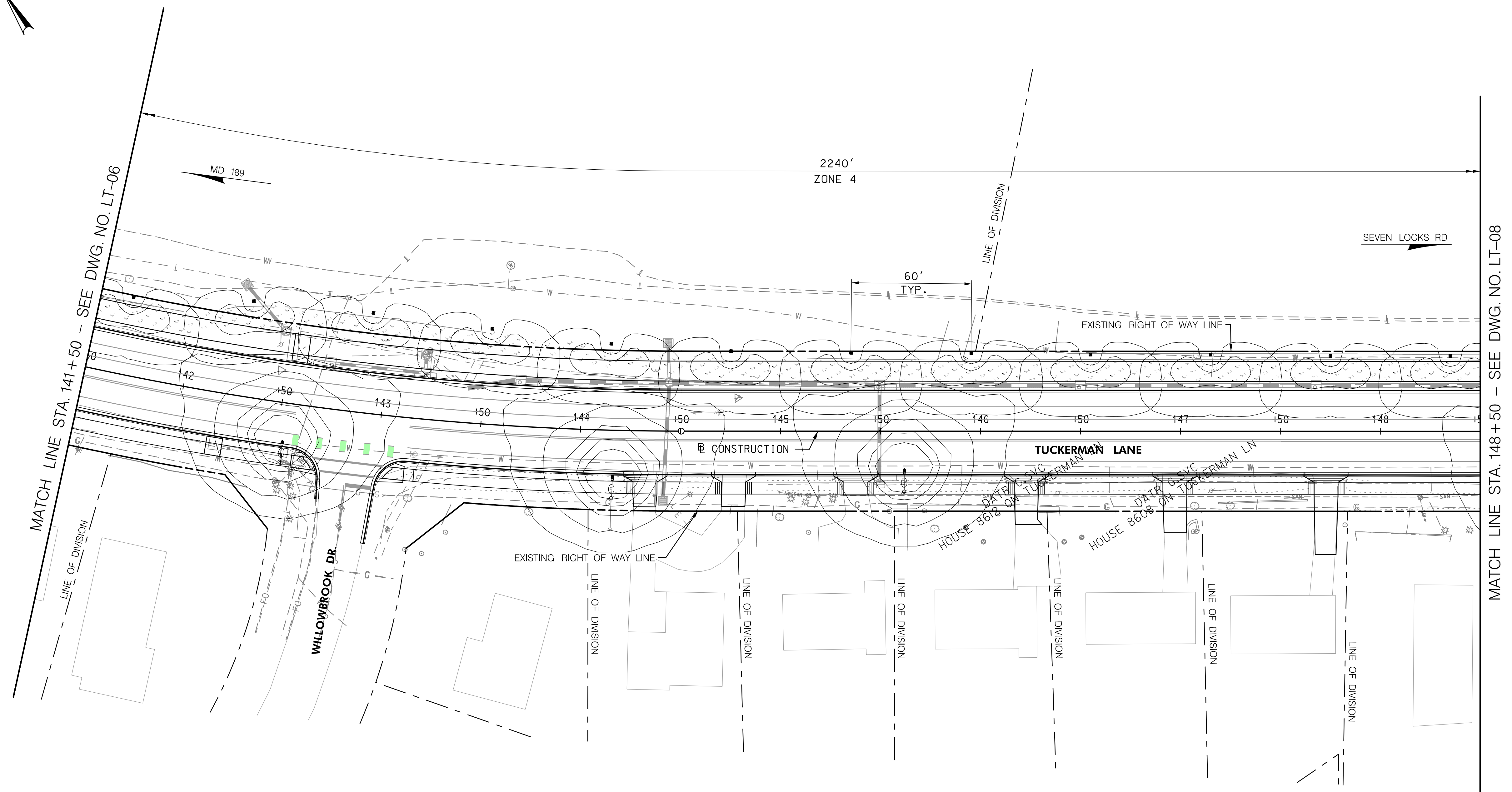
DATE :	09-17-2021
NO.	
REVISION	
DATE	
BY	

WALLACE MONTGOMERY
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
10150 York Road, Suite 200
Hunt Valley, Maryland 21030
410.494.9093 | Fax | 410.967.0925 Fax
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BY: sabbasgholipour



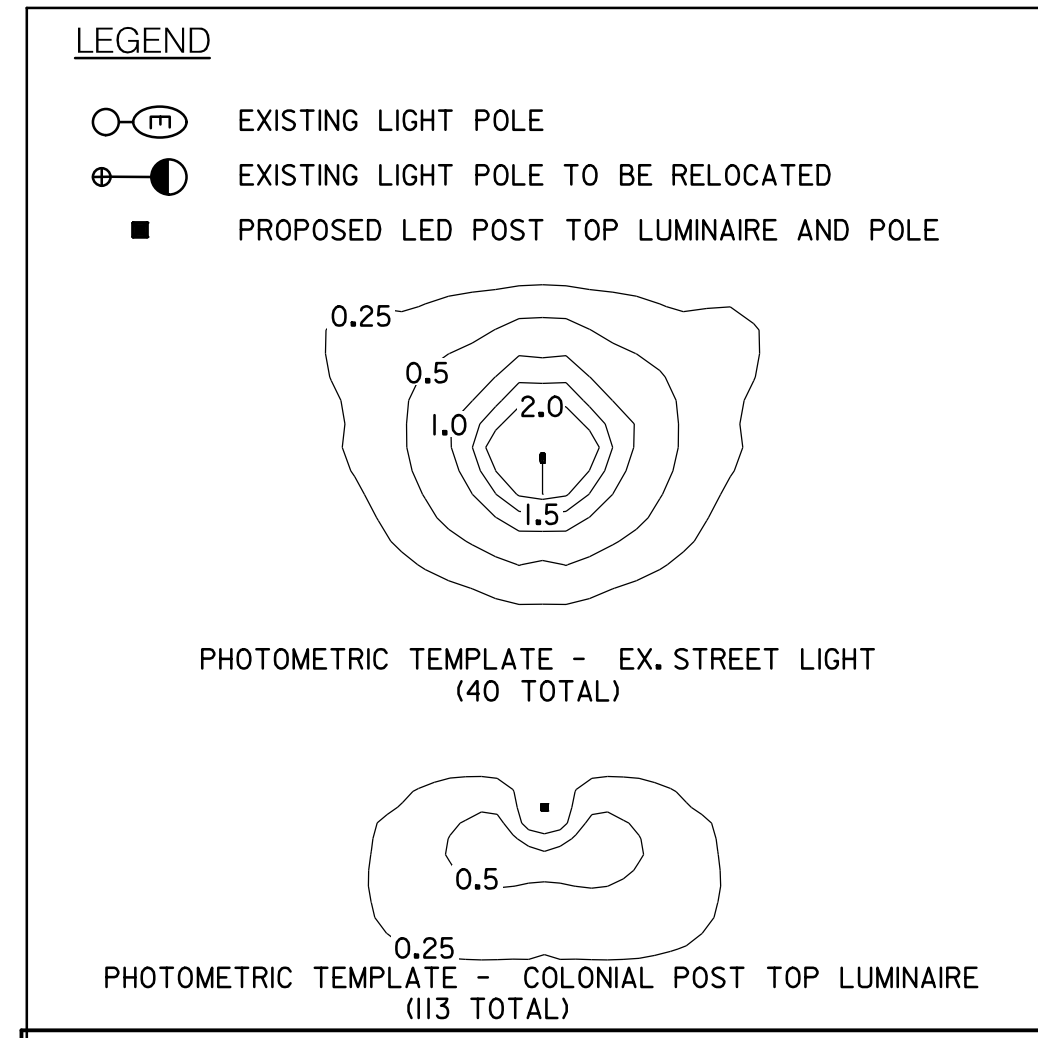
LOCATION MAP
SCALE 1"=1500'



LIGHTING CALCULATIONS FOR TUCKERMAN LANE

Lighting Calculation Zone	Roadway Classification	Maximum Illuminance Level (fc)	Minimum Illuminance Level (fc)	Average Illuminance (E _{avg}) Min (fc) Recommended	Average Illuminance (E _{avg}) Min (fc) Calculated	Uniformity Ratio (E _{avg} /E _{min}) Max Recommended	Uniformity Ratio (E _{avg} /E _{min}) Max Calculated
Zone 1 - From MD 189 to Coldstream Dr	Major/Collector	3.20	0.30	0.40	0.83	4.00	2.77
Zone 2 - From Coldstream Dr to Postoak Rd	Major/Collector	3.10	0.40	0.40	0.96	4.00	2.40
Zone 3 - From Postoak Rd to Duryea Dr	Major/Collector	3.20	0.40	0.40	1.12	4.00	2.80
Zone 4 - From Duryea Dr to Gainsborough Rd	Major/Collector	3.10	0.20	0.40	0.72	4.00	3.60
Zone 5 - From Gainsborough Rd to Regency Dr	Major/Collector	3.10	0.20	0.40	0.77	4.00	3.85
Zone 6 - From Regency Dr to Georgetowne Dr	Major/Collector	3.20	0.30	0.40	1.15	4.00	3.83
Zone 7 - From Georgetowne Dr to Deborah Dr	Major/Collector	3.20	0.30	0.40	1.01	4.00	3.37
Zone 8 - From Deborah Dr to Cedar Ridge Dr	Major/Collector	3.10	0.30	0.40	1.09	4.00	3.63
Zone 9 - From Cedar Ridge Dr to Seven Locks Rd	Major/Collector	0.70	0.20	0.40	0.58	4.00	2.90

Recommended Intersection Values from Table D1 : Illuminance Method - Recommended Maintained Values of the ANSI / IESNA RP-8-00



TAX MAPS: HQ31, HQ32, Q0121 WSSC GRIDS: 215NW09, 214NW09, 214NW08

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____

APPROVED

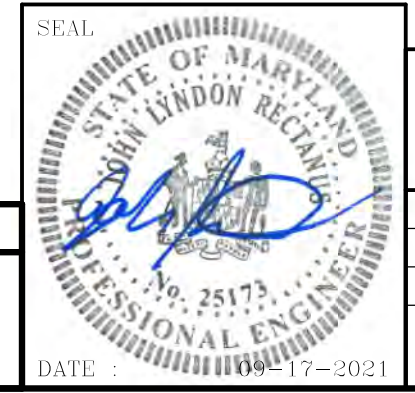
Chief, Division of Engineering Services _____ Date _____

Designed by : R.W.M. Drawn by : S.X. Checked by : J.L.R.

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

JOHN L. RECTANUS MD NO-25173 EXP-06/21/2023



NO.	REVISION	DATE	BY

PLAN SHEET LT-07 LIGHTING PLANS TUCKERMAN LANE SIDEWALK/BIKEWAY PROJECT - SEGMENT 1 STA. 141+50 TO STA. 148+50

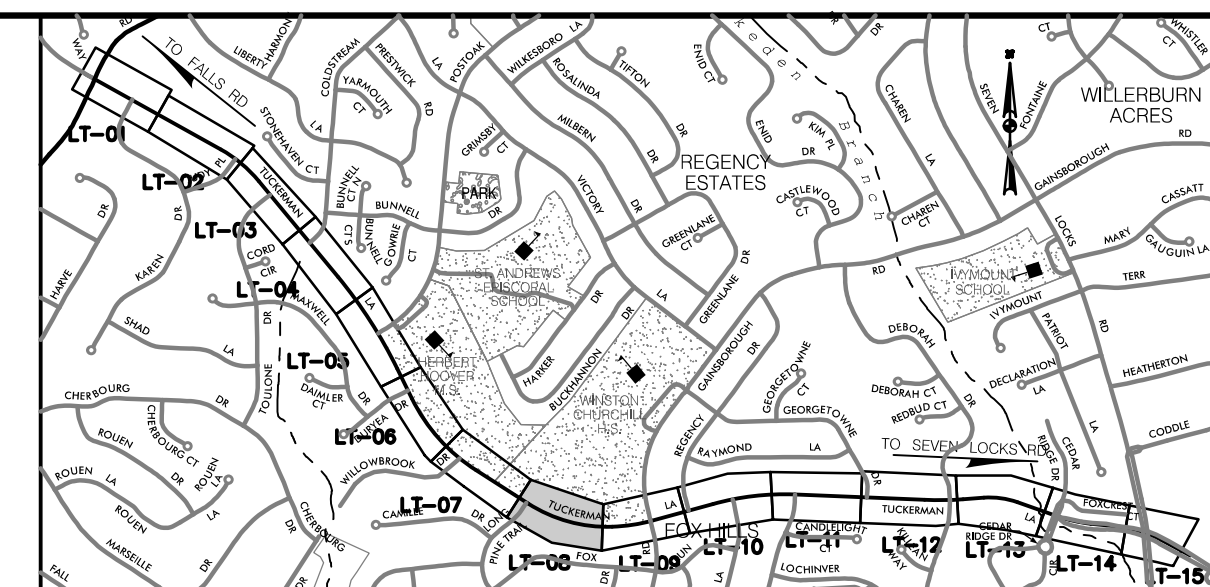
SCALE : 1"= 30'

10/2021

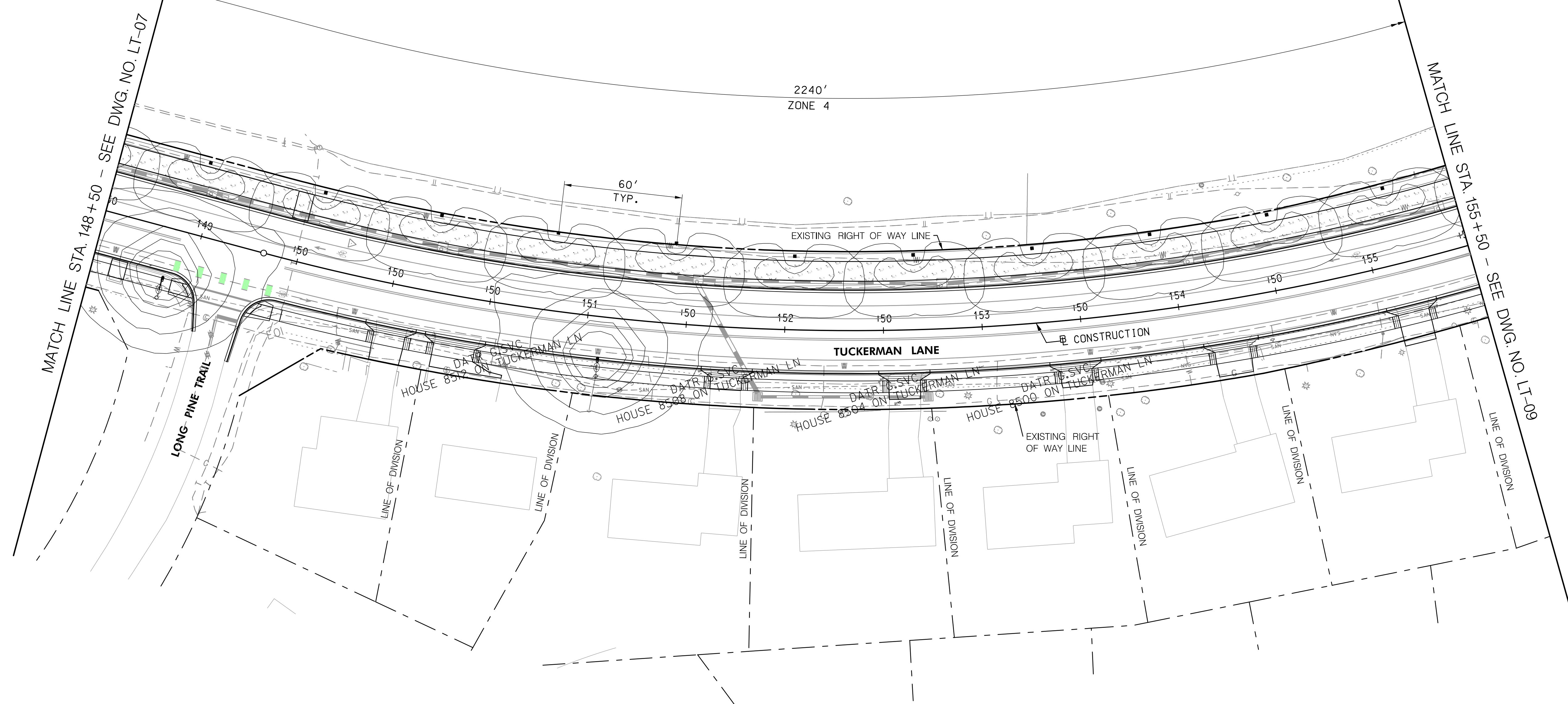
Project No. : C.I.P. PR. # 509337 SHEET 111 of 175

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10150 York Road, Suite 200
Hunt Valley, Maryland 21030
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PLOTTED: 3/8/2023
FILE: M:\PROJ\22015.00011\Traffic_Cadd\LT-T-007_Tuckerman.dgn



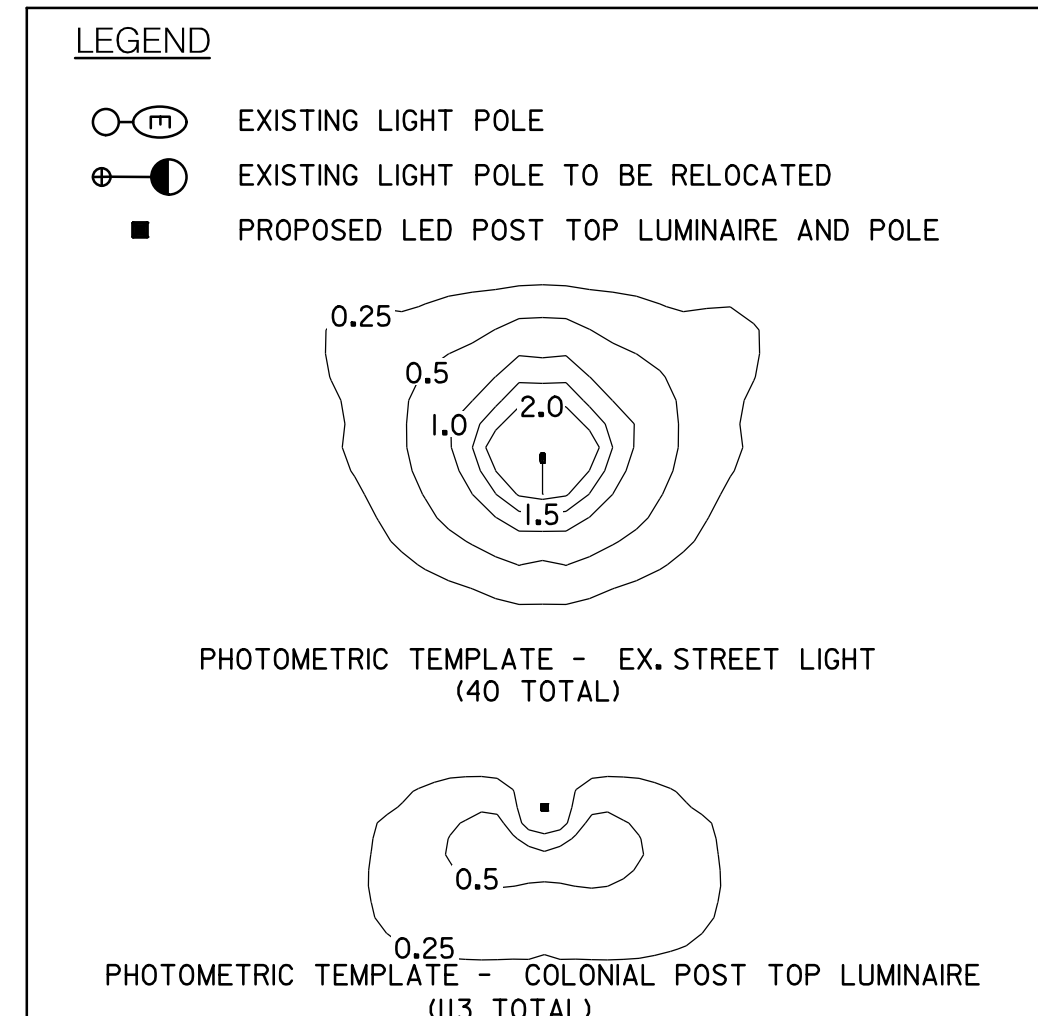
LOCATION MAP
SCALE 1"=1500'



LIGHTING CALCULATIONS FOR TUCKERMAN LANE

Lighting Calculation Zone	Roadway Classification	Maximum Illuminance Level (fc)	Minimum Illuminance Level (fc)	Average Illuminance (E _{avg}) Min (fc) Recommended	Average Illuminance (E _{avg}) Min (fc) Calculated	Uniformity Ratio (E _{avg} /E _{min}) Max Recommended	Uniformity Ratio (E _{avg} /E _{min}) Max Calculated
Zone 1 - From MD 189 to Coldstream Dr	Major/Collector	3.20	0.30	0.40	0.83	4.00	2.77
Zone 2 - From Coldstream Dr to Postoak Rd	Major/Collector	3.10	0.40	0.40	0.96	4.00	2.40
Zone 3 - From Postoak Rd to Duryea Dr	Major/Collector	3.20	0.40	0.40	1.12	4.00	2.80
Zone 4 - From Duryea Dr to Gainsborough Rd	Major/Collector	3.10	0.20	0.40	0.72	4.00	3.60
Zone 5 - From Gainsborough Rd to Regency Dr	Major/Collector	3.10	0.20	0.40	0.77	4.00	3.85
Zone 6 - From Regency Dr to Georgetowne Dr	Major/Collector	3.20	0.30	0.40	1.15	4.00	3.83
Zone 7 - From Georgetowne Dr to Deborah Dr	Major/Collector	3.20	0.30	0.40	1.01	4.00	3.37
Zone 8 - From Deborah Dr to Cedar Ridge Dr	Major/Collector	3.10	0.30	0.40	1.09	4.00	3.63
Zone 9 - From Cedar Ridge Dr to Seven Locks Rd	Major/Collector	0.70	0.20	0.40	0.58	4.00	2.90

Recommended Intersection Values from Table D1 : Illuminance Method - Recommended Maintained Values of the ANSI / IESNA RP-8-00



TAX MAPS: HQ31, HQ32, Q0121 WSSC GRIDS: 215NW09, 214NW09, 214NW08

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by : R.W.M. Drawn by : S.X. Checked by : J.L.R.

**PLAN SHEET LT-08
LIGHTING PLANS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 148+50 TO STA. 155+50**

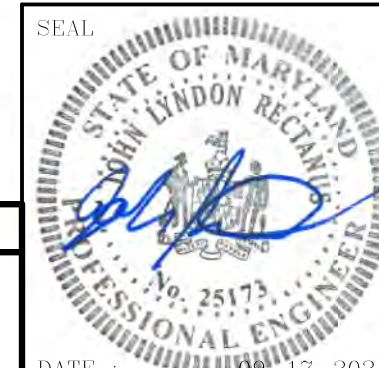
SCALE : 1"= 30' 10/2021

Project No. : C.I.P. PR. # 509337 SHEET 112 of 175

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

JOHN L. RECTANUS MD NO-25173 EXP-06/21/2023

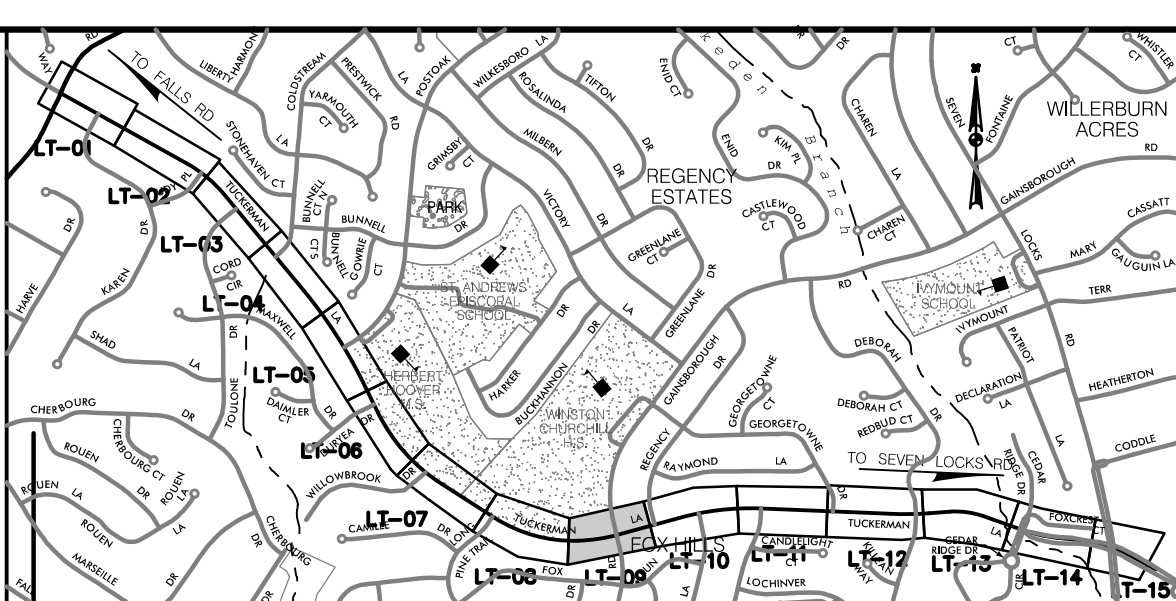
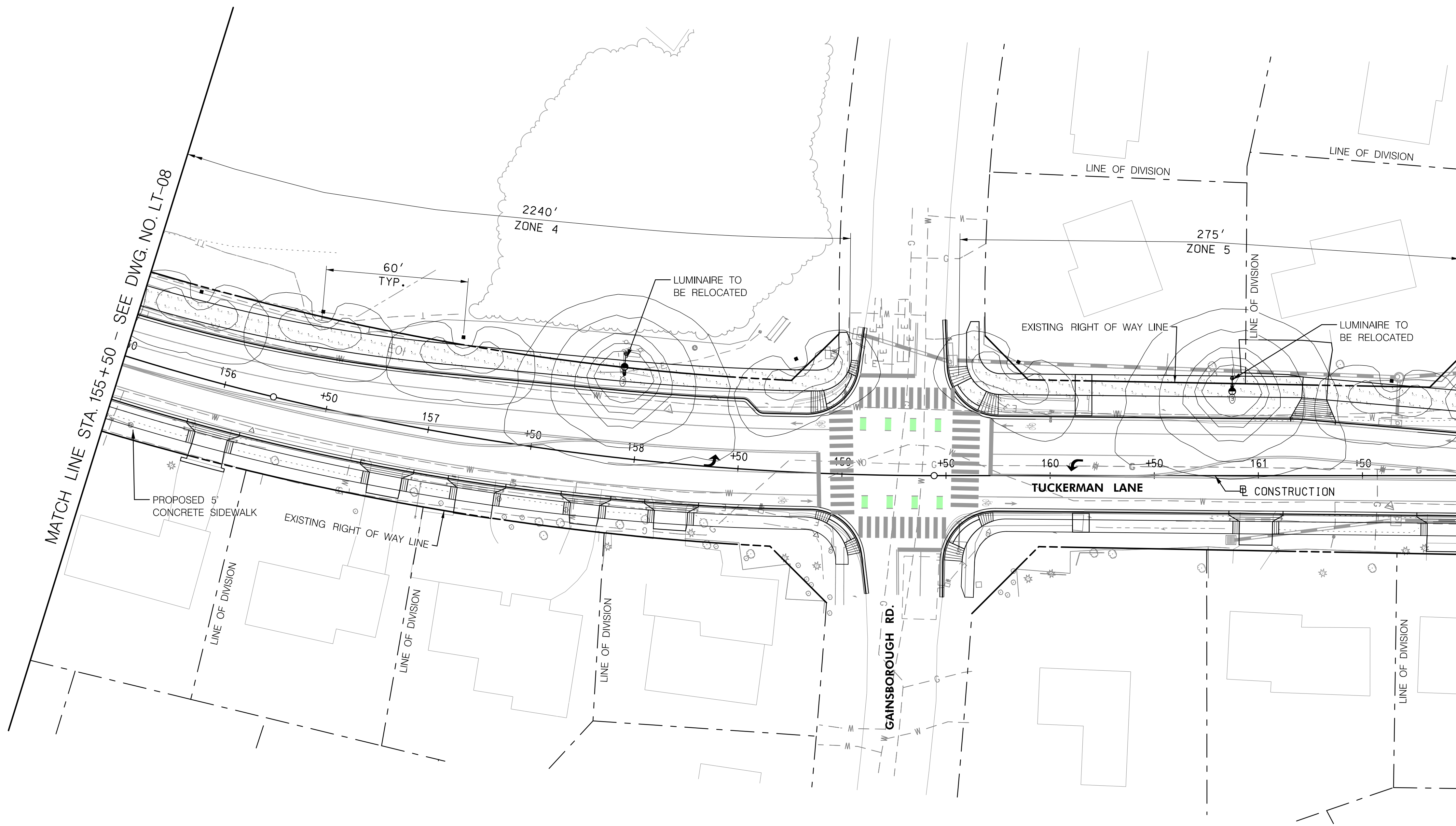
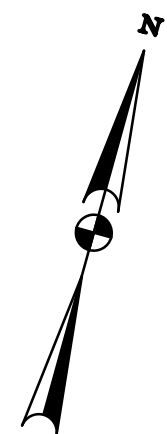


NO.	REVISION	DATE	BY

BY: sabbasgholipour

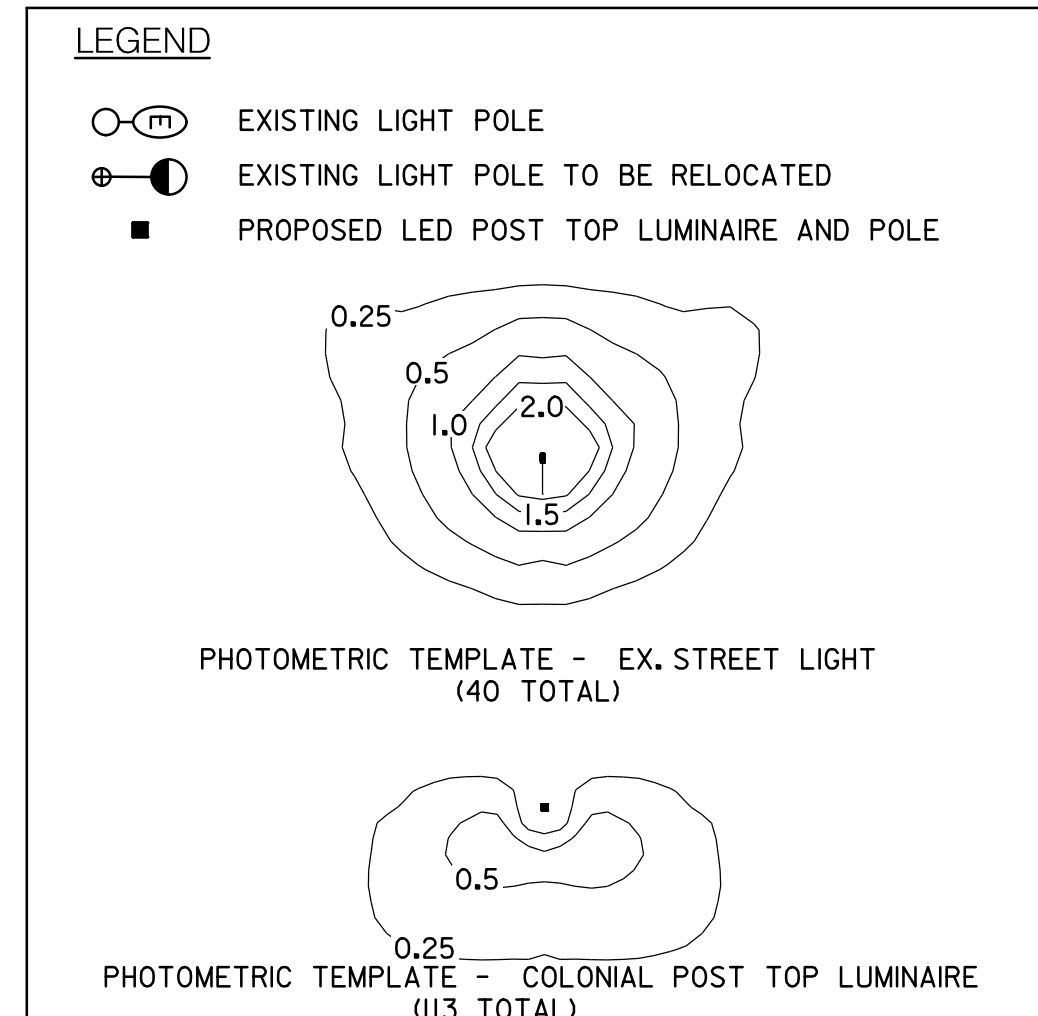
WALLACE MONTGOMERY
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10150 York Road, Suite 200
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410.494.9093 | Fax | 410.967.0925 Fax
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PLOTTED: 3/8/2023
FILE: M:\PROJ\22015.00011\Traffic_Cadd\LT-T-008_Tuckerman.dgn



LIGHTING CALCULATIONS FOR TUCKERMAN LANE							
Lighting Calculation Zone	Roadway Classification	Maximum Illuminance Level (fc)	Minimum Illuminance Level (fc)	Average Illuminance (E _{avg}) Min (fc) Recommended	Average Illuminance (E _{avg}) Min (fc) Calculated	Uniformity Ratio (E _{avg} /E _{min}) Max Recommended	Uniformity Ratio (E _{avg} /E _{min}) Max Calculated
Zone 1 - From MD 189 to Coldstream Dr	Major/Collector	3.20	0.30	0.40	0.83	4.00	2.77
Zone 2 - From Coldstream Dr to Postoak Rd	Major/Collector	3.10	0.40	0.40	0.96	4.00	2.40
Zone 3 - From Postoak Rd to Duryea Dr	Major/Collector	3.20	0.40	0.40	1.12	4.00	2.80
Zone 4 - From Duryea Dr to Gainsborough Rd	Major/Collector	3.10	0.20	0.40	0.72	4.00	3.60
Zone 5 - From Gainsborough Rd to Regency Dr	Major/Collector	3.10	0.20	0.40	0.77	4.00	3.85
Zone 6 - From Regency Dr to Georgetowne Dr	Major/Collector	3.20	0.30	0.40	1.15	4.00	3.83
Zone 7 - From Georgetowne Dr to Deborah Dr	Major/Collector	3.20	0.30	0.40	1.01	4.00	3.37
Zone 8 - From Deborah Dr to Cedar Ridge Dr	Major/Collector	3.10	0.30	0.40	1.09	4.00	3.63
Zone 9 - From Cedar Ridge Dr to Seven Locks Rd	Major/Collector	0.70	0.20	0.40	0.58	4.00	2.90

Recommended Intersection Values from Table D1 : Illuminance Method - Recommended Maintained Values of the ANSI / IESNA RP-8-00



BY: sabbasgholipour

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 JOHN L. RECTANUS MD NO-25173 EXP-06/21/2023



35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

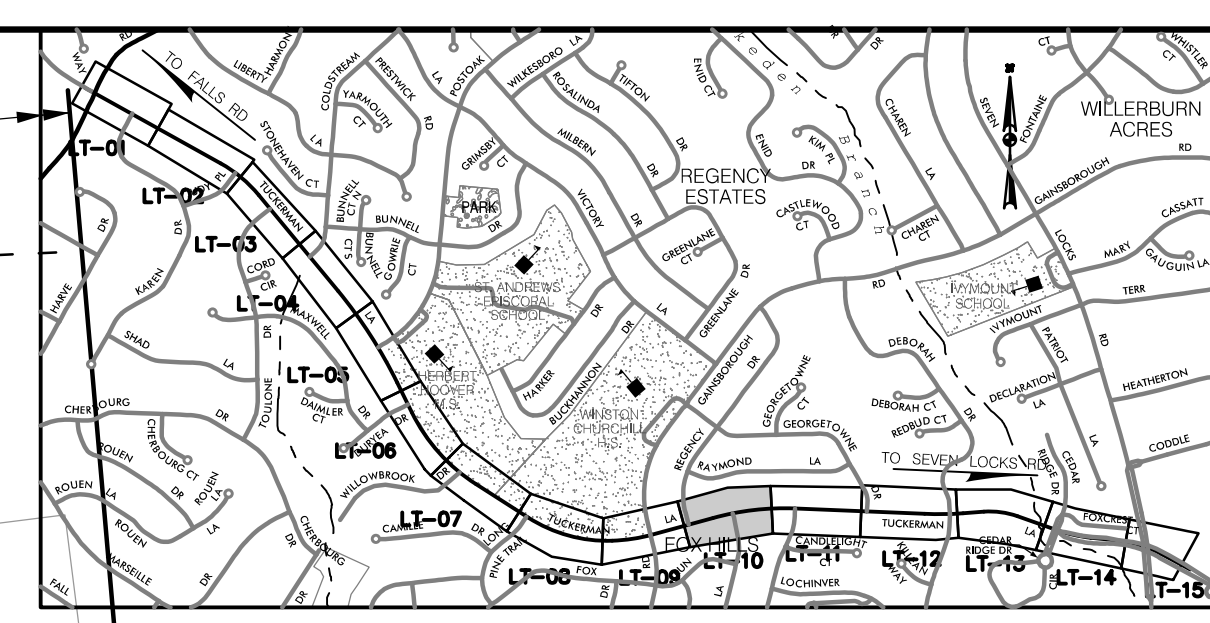
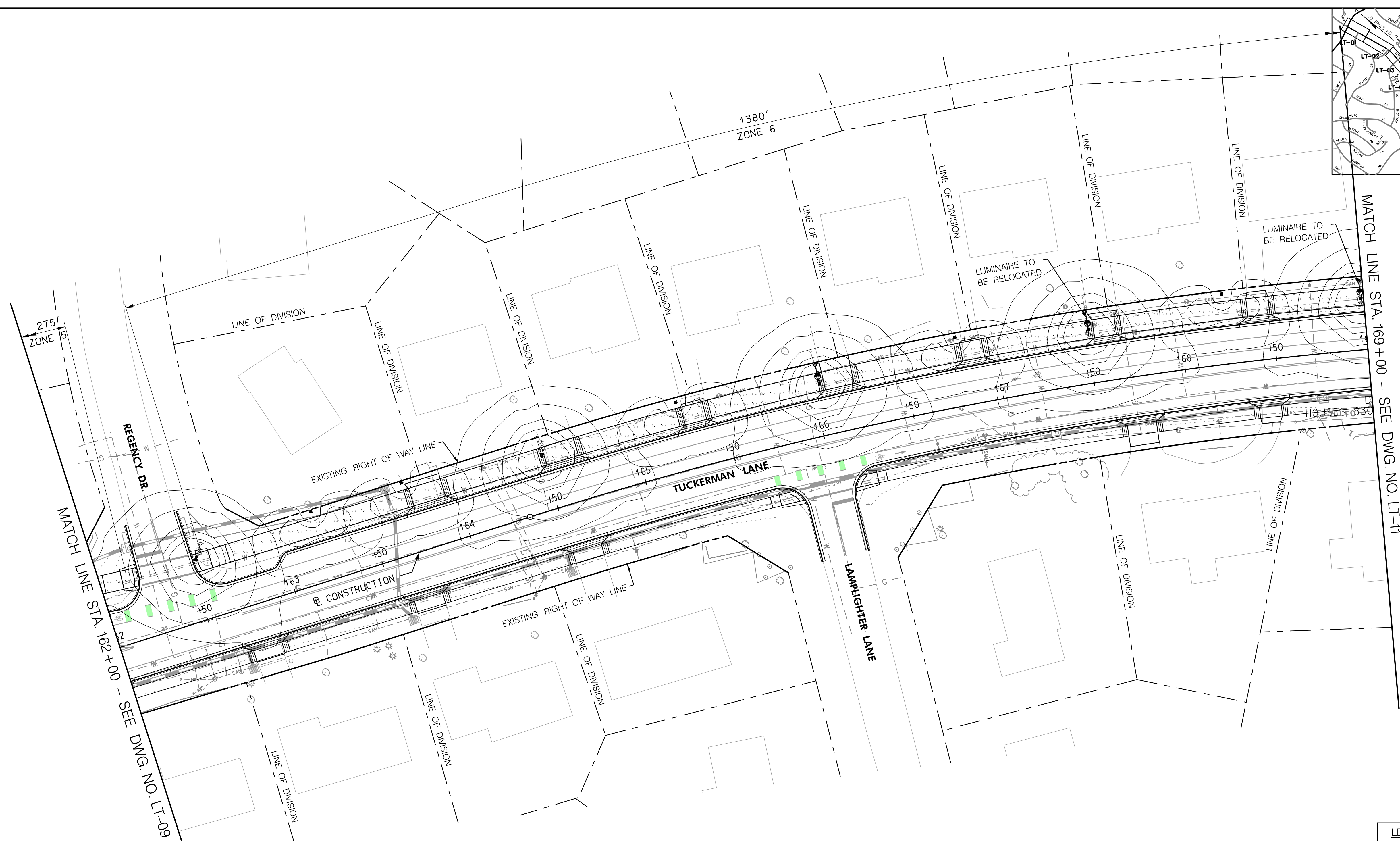
Designed by : R.W.M. Drawn by : S.X. Checked by : J.L.R.

TAX MAPS: HQ31, HQ32, Q0121 WSSC GRIDS: 215NW09, 214NW09, 214NW08

**PLAN SHEET LT-09
 LIGHTING PLANS
 TUCKERMAN LANE
 SIDEWALK/BIKEWAY
 PROJECT - SEGMENT 1
 STA. 155+50 TO STA. 162+00**

SCALE: 1"=30' 10/2021

Project No. : C.I.P. PR. # 509337 SHEET 113 of 175

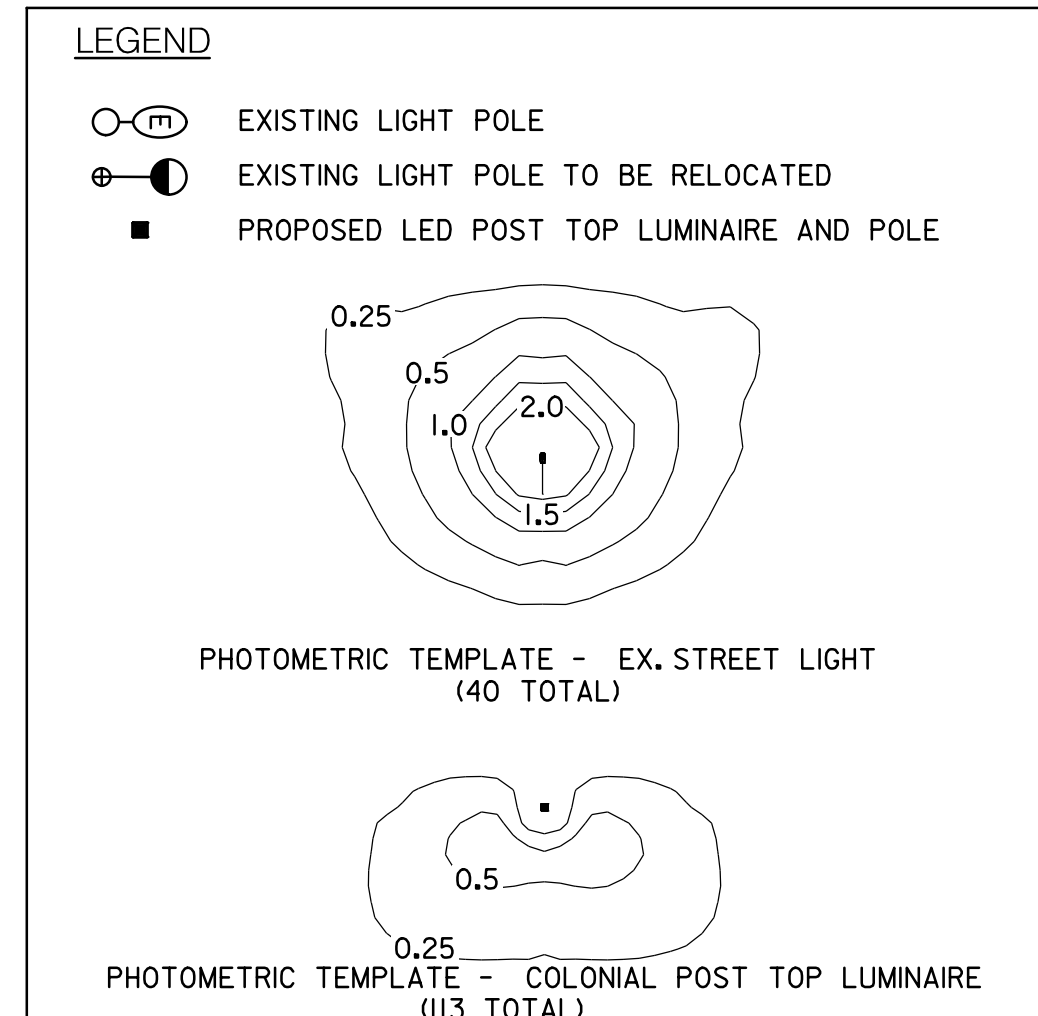


LOCATION MAP
SCALE 1"=1500"

LIGHTING CALCULATIONS FOR TUCKERMAN LANE

Lighting Calculation Zone	Roadway Classification	Maximum Illuminance Level (fc)	Minimum Illuminance Level (fc)	Average Illuminance (E _{avg}) Min (fc) Recommended	Average Illuminance (E _{avg}) Min (fc) Calculated	Uniformity Ratio (E _{avg} /E _{min}) Max Recommended	Uniformity Ratio (E _{avg} /E _{min}) Max Calculated
Zone 1 - From MD 189 to Coldstream Dr	Major/Collector	3.20	0.30	0.40	0.83	4.00	2.77
Zone 2 - From Coldstream Dr to Post oak Rd	Major/Collector	3.10	0.40	0.40	0.96	4.00	2.40
Zone 3 - From Post oak Rd to Duryea Dr	Major/Collector	3.20	0.40	0.40	1.12	4.00	2.80
Zone 4 - From Duryea Dr to Gainsborough Rd	Major/Collector	3.10	0.20	0.40	0.72	4.00	3.60
Zone 5 - From Gainsborough Rd to Regency Dr	Major/Collector	3.10	0.20	0.40	0.77	4.00	3.85
Zone 6 - From Regency Dr to Georgetowne Dr	Major/Collector	3.20	0.30	0.40	1.15	4.00	3.83
Zone 7 - From Georgetowne Dr to Deborah Dr	Major/Collector	3.20	0.30	0.40	1.01	4.00	3.37
Zone 8 - From Deborah Dr to Cedar Ridge Dr	Major/Collector	3.10	0.30	0.40	1.09	4.00	3.63
Zone 9 - From Cedar Ridge Dr to Seven Locks Rd	Major/Collector	0.70	0.20	0.40	0.58	4.00	2.90

Recommended Intersection Values from Table D1 : Illuminance Method - Recommended Maintained Values of the ANSI /IESNA RP-8-00



TAX MAPS: HQ31, HQ32, Q0121 WSSC GRIDS: 215NW09, 214NW09, 214NW08

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
APPROVED

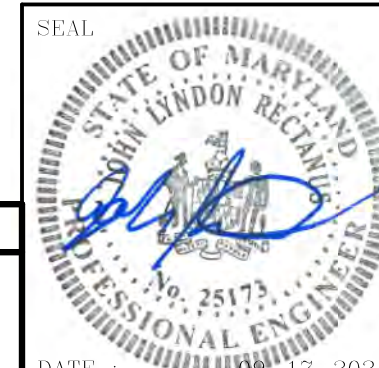
Chief, Division of Engineering Services _____ Date _____

Designed by : R.W.M. Drawn by : S.X. Checked by : J.L.R.

PROFESSIONAL CERTIFICATION

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JOHN L. RECTANUS MD NO-25173 EXP-06/21/2023



NO.	REVISION	DATE	BY

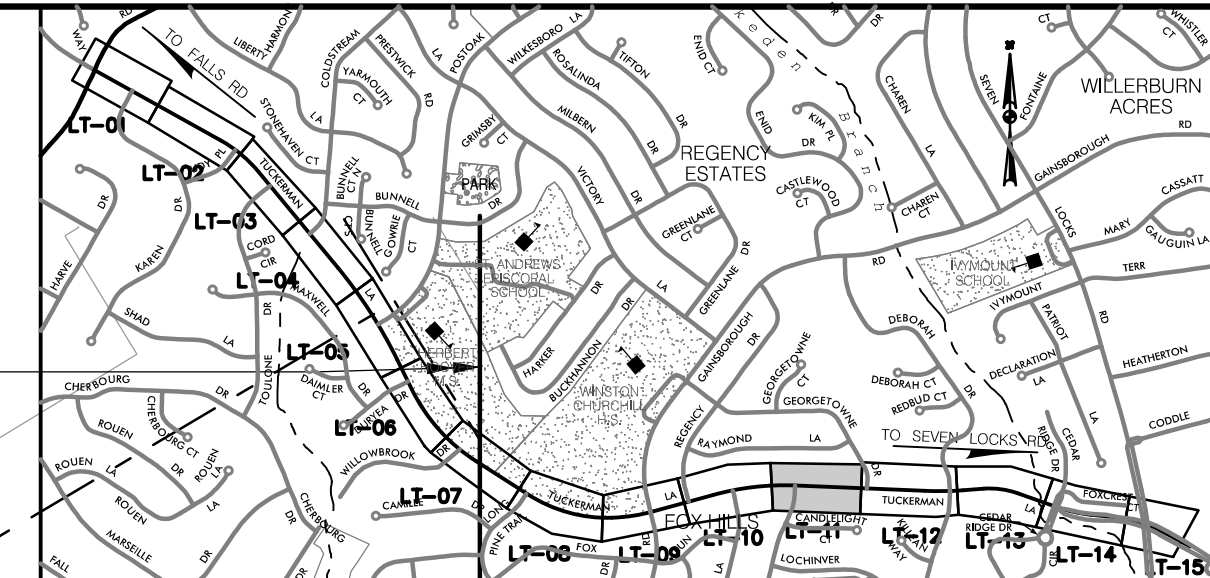
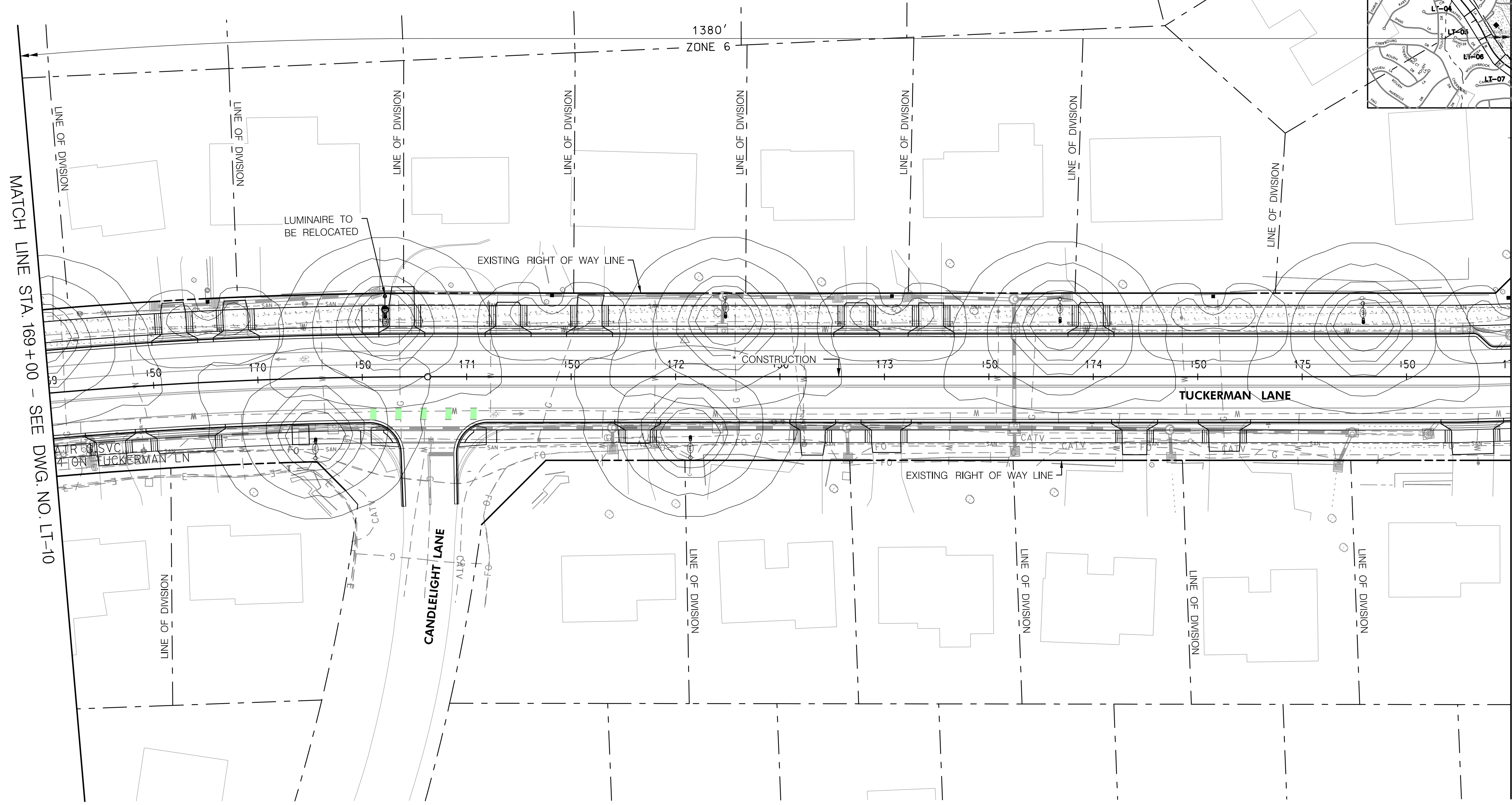
**PLAN SHEET LT-10
LIGHTING PLANS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 162+00 TO STA. 169+00**

SCALE: 1"=30'

Project No. : C.I.P. PR. # 509337 SHEET 114 of 175

BY: sabbasgholipour

WALLACE MONTGOMERY
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
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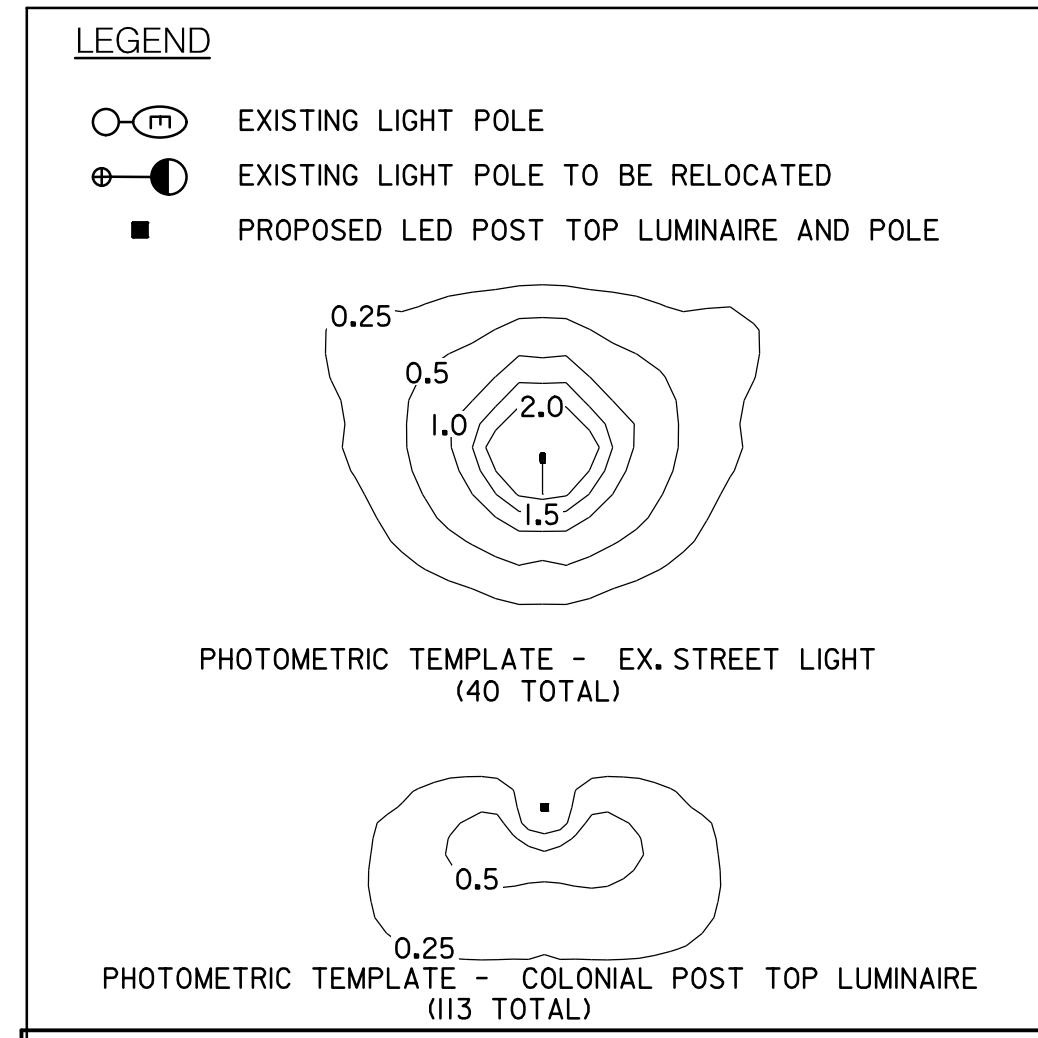


LOCATION MAP
SCALE 1"=1500"

LIGHTING CALCULATIONS FOR TUCKERMAN LANE

Lighting Calculation Zone	Roadway Classification	Maximum Illuminance Level (fc)	Minimum Illuminance Level (fc)	Average Illuminance (E _{avg}) Min (fc) Recommended	Average Illuminance (E _{avg}) Min (fc) Calculated	Uniformity Ratio (E _{avg} /E _{min}) Max Recommended	Uniformity Ratio (E _{avg} /E _{min}) Max Calculated
Zone 1 - From MD 189 to Coldstream Dr	Major/Collector	3.20	0.30	0.40	0.83	4.00	2.77
Zone 2 - From Coldstream Dr to Postoak Rd	Major/Collector	3.10	0.40	0.40	0.96	4.00	2.40
Zone 3 - From Postoak Rd to Duryea Dr	Major/Collector	3.20	0.40	0.40	1.12	4.00	2.80
Zone 4 - From Duryea Dr to Gainsborough Rd	Major/Collector	3.10	0.20	0.40	0.72	4.00	3.60
Zone 5 - From Gainsborough Rd to Regency Dr	Major/Collector	3.10	0.20	0.40	0.77	4.00	3.85
Zone 6 - From Regency Dr to Georgetowne Dr	Major/Collector	3.20	0.30	0.40	1.15	4.00	3.83
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Recommended Intersection Values from Table D1 : Illuminance Method - Recommended Maintained Values of the ANSI / IESNA RP-8-00



TAX MAPS: HQ31, HQ32, Q0121 WSSC GRIDS: 215NW09, 214NW09, 214NW08

35% SUBMITTAL

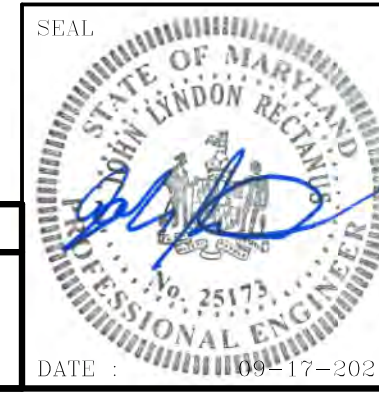
DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL
Chief, Design Section _____ Date _____
APPROVED
Chief, Division of Engineering Services _____ Date _____
Designed by : R.W.M. Drawn by : S.X. Checked by : J.L.R.

**PLAN SHEET LT-11
LIGHTING PLANS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 169+00 TO STA. 176+00**
SCALE: 1"=30'
Project No. : C.I.P. PR. # 509337 SHEET 14 of 175

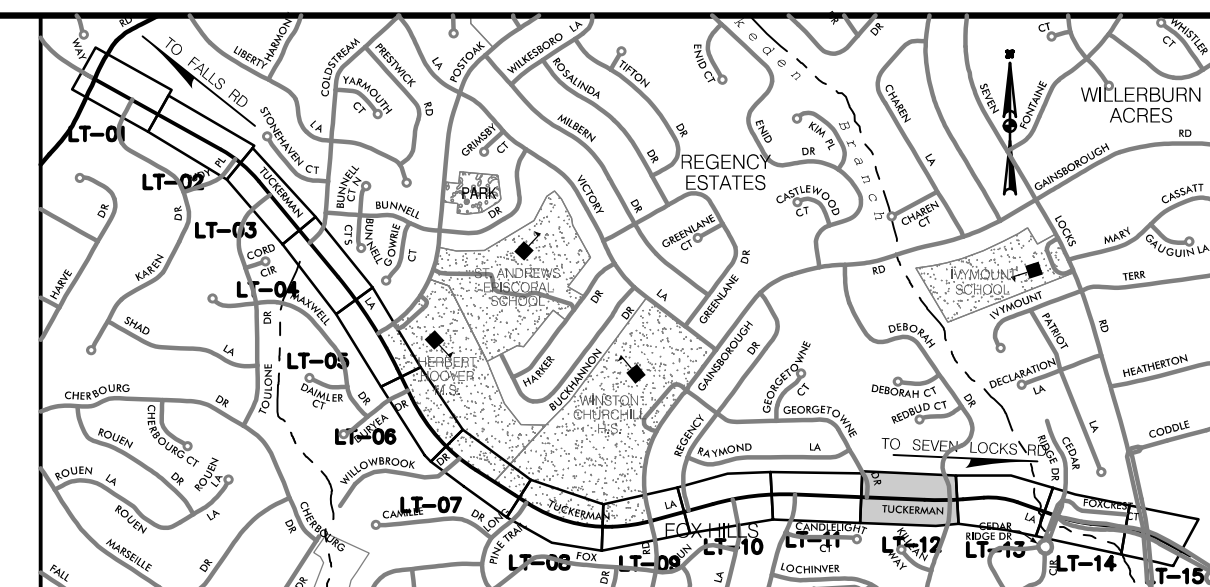
PROFESSIONAL CERTIFICATION
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JOHN L. RECTANUS MD NO. 25173 EXP-06/21/2023



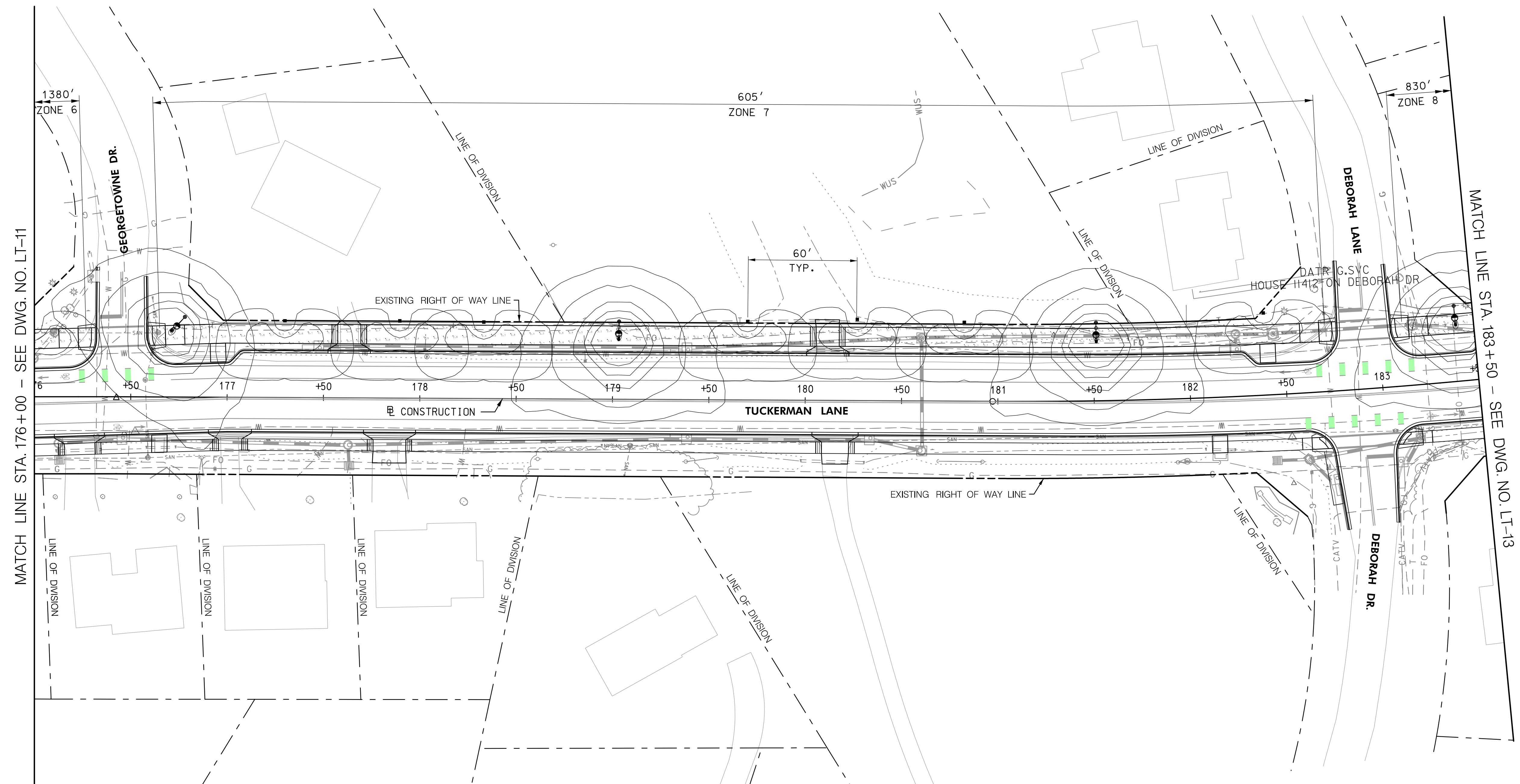
NO.	REVISION	DATE	BY

WALLACE MONTGOMERY
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
10150 York Road, Suite 200
Hunt Valley, Maryland 21030
410.494.9093 | Fax / 410.967.0925 Fax
www.WallaceMontgomery.com A Limited Liability Partnership

BY: sabbasgholipour -



LOCATION MAP
SCALE 1"=1500'



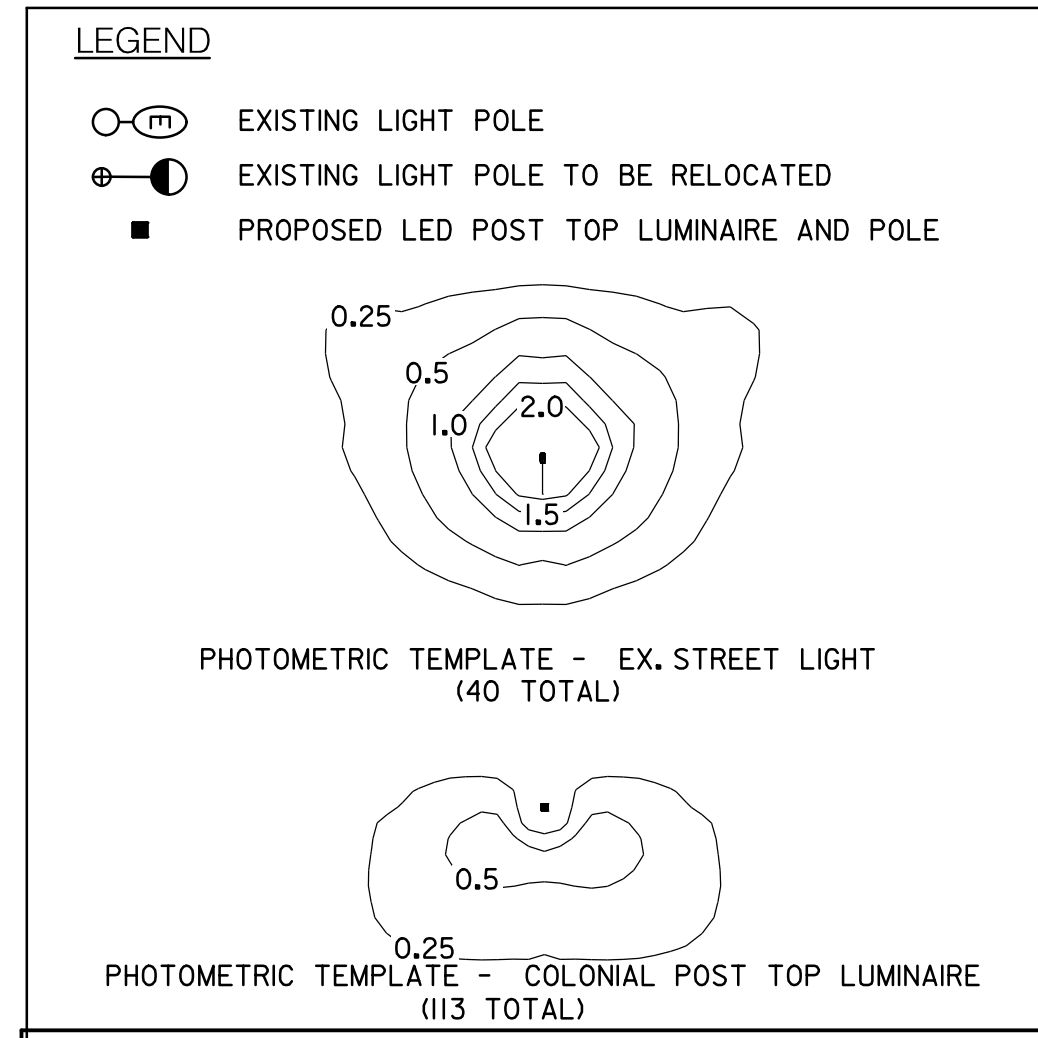
MATCH LINE STA. 176+00 - SEE DWG. NO. LT-11

MATCH LINE STA. 183+50 - SEE DWG. NO. LT-13

LIGHTING CALCULATIONS FOR TUCKERMAN LANE

Lighting Calculation Zone	Roadway Classification	Maximum Illuminance Level (fc)	Minimum Illuminance Level (fc)	Average Illuminance (E _{avg}) Min (fc) Recommended	Average Illuminance (E _{avg}) Min (fc) Calculated	Uniformity Ratio (E _{avg} /E _{min}) Max Recommended	Uniformity Ratio (E _{avg} /E _{min}) Max Calculated
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Zone 7 - From Georgetowne Dr to Deborah Dr	Major/Collector	3.20	0.30	0.40	1.01	4.00	3.37
Zone 8 - From Deborah Dr to Cedar Ridge Dr	Major/Collector	3.10	0.30	0.40	1.09	4.00	3.63
Zone 9 - From Cedar Ridge Dr to Seven Locks Rd	Major/Collector	0.70	0.20	0.40	0.58	4.00	2.90

Recommended Intersection Values from Table D1 : Illuminance Method - Recommended Maintained Values of the ANSI / IESNA RP-8-00



TAX MAPS: HQ31, HQ32, Q212 WSSC GRIDS: 215NW09, 214NW09, 214NW08

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
APPROVED

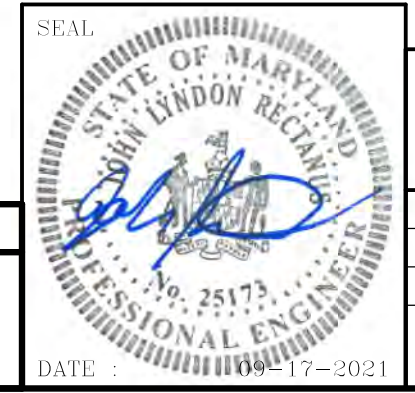
Chief, Division of Engineering Services _____ Date _____

Designed by : R.W.M. Drawn by : S.X. Checked by : J.L.R.

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NO.	REVISION	DATE	BY

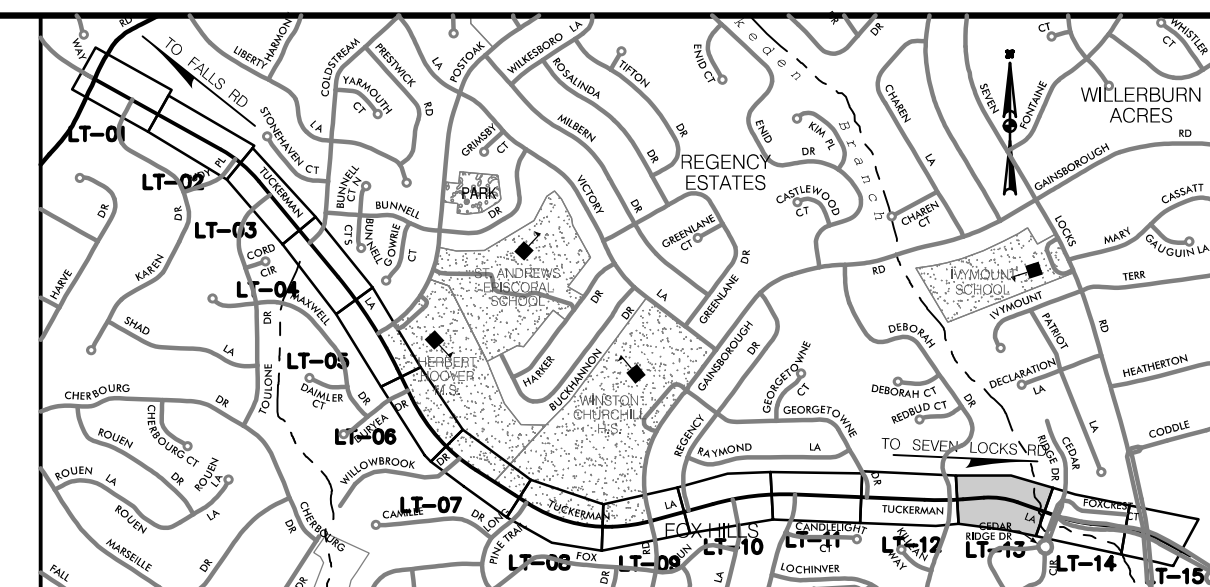
**PLAN SHEET LT-12
LIGHTING PLANS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 176+00 TO STA. 183+50**

SCALE: 1"=30' 10/2021

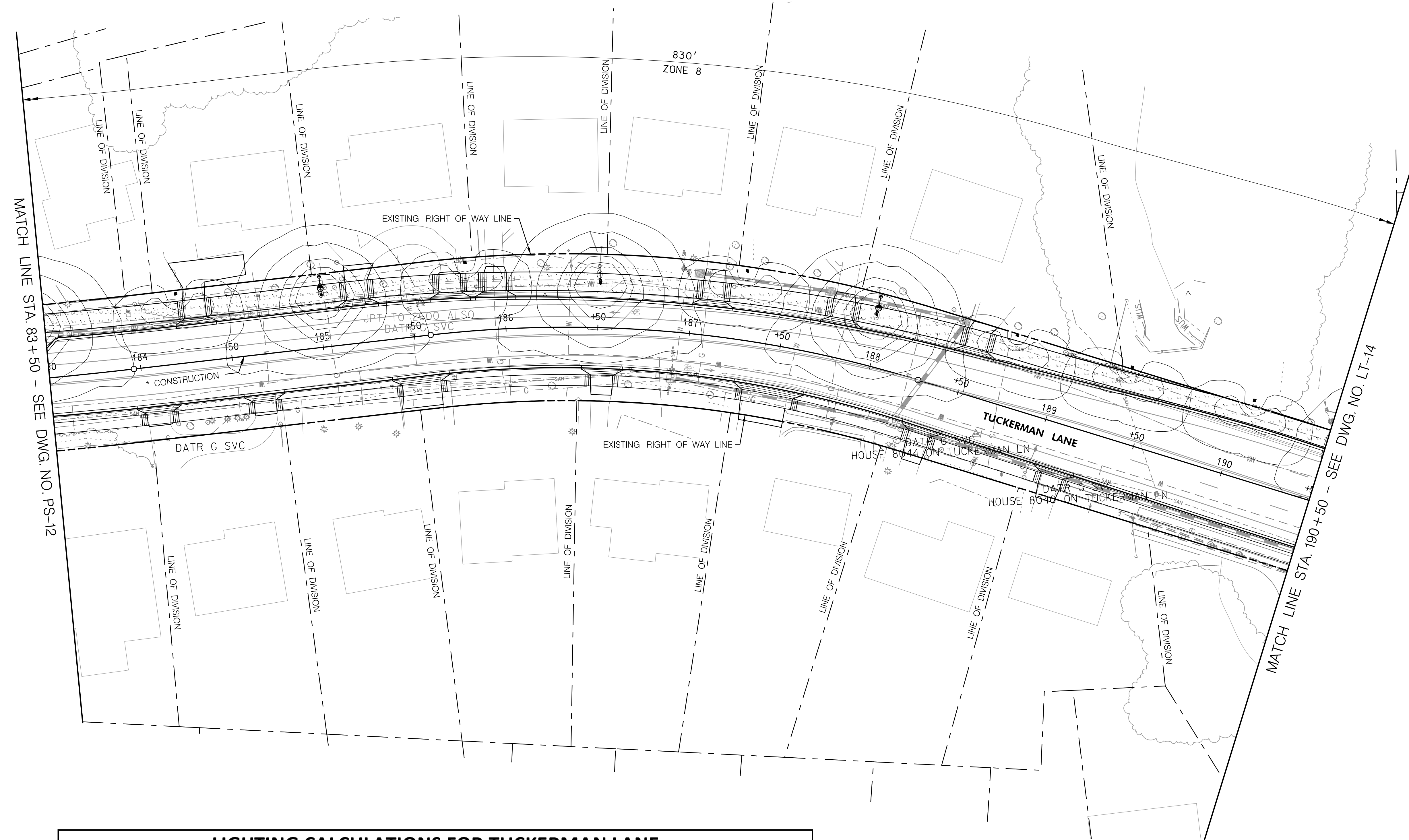
Project No. : C.I.P. PR. # 509337 SHEET 116 of 175

WALLACE MONTGOMERY
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
10150 York Road, Suite 200
Hunt Valley, Maryland 21030
410.494.9093 | Fax | 410.967.0925 Fax
www.WallaceMontgomery.com A Limited Liability Partnership

BY: sabbasgholipour



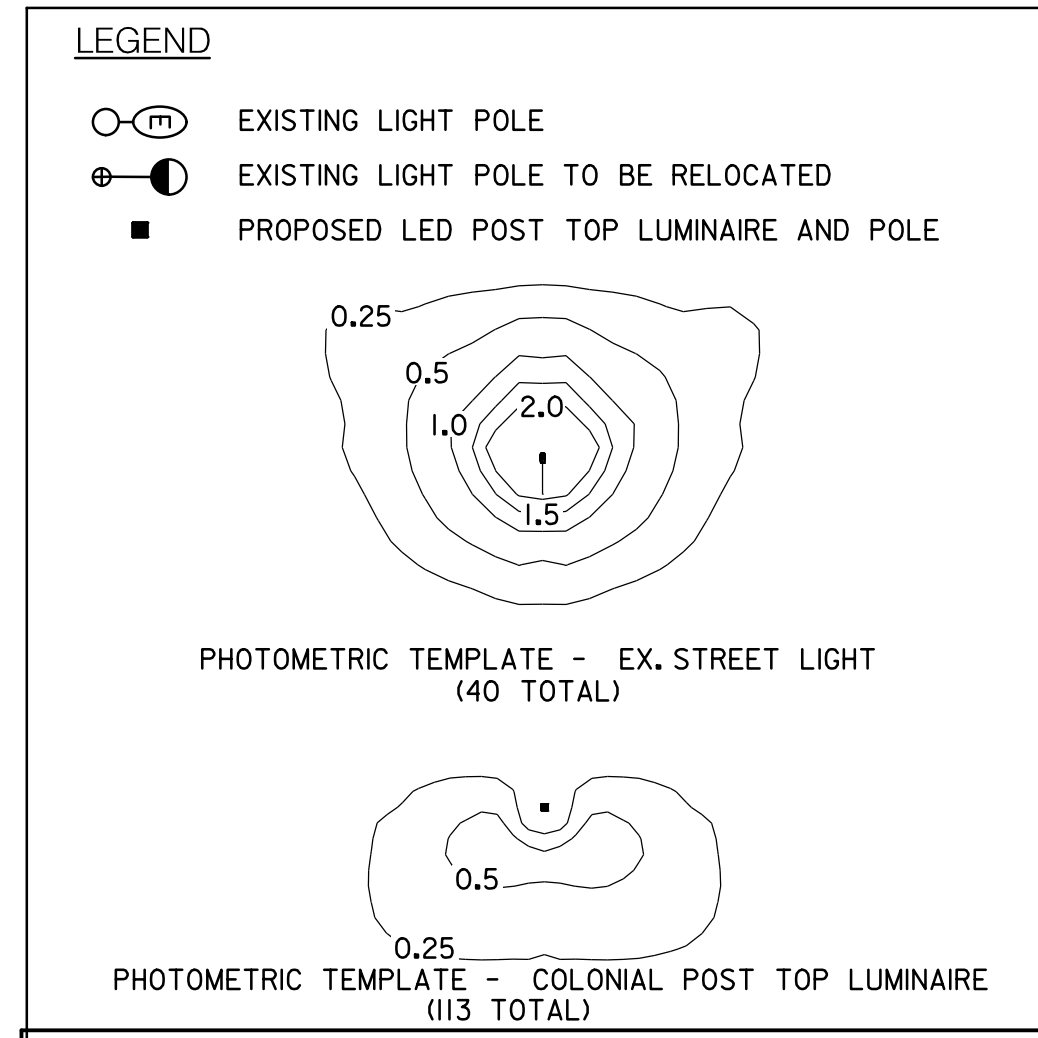
LOCATION MAP
SCALE 1"=1500'



LIGHTING CALCULATIONS FOR TUCKERMAN LANE

Lighting Calculation Zone	Roadway Classification	Maximum Illuminance Level (fc)	Minimum Illuminance Level (fc)	Average Illuminance (E _{avg}) Min (fc) Recommended	Average Illuminance (E _{avg}) Min (fc) Calculated	Uniformity Ratio (E _{avg} /E _{min}) Max Recommended	Uniformity Ratio (E _{avg} /E _{min}) Max Calculated
Zone 1 - From MD 189 to Coldstream Dr	Major/Collector	3.20	0.30	0.40	0.83	4.00	2.77
Zone 2 - From Coldstream Dr to Post oak Rd	Major/Collector	3.10	0.40	0.40	0.96	4.00	2.40
Zone 3 - From Post oak Rd to Duryea Dr	Major/Collector	3.20	0.40	0.40	1.12	4.00	2.80
Zone 4 - From Duryea Dr to Gainsborough Rd	Major/Collector	3.10	0.20	0.40	0.72	4.00	3.60
Zone 5 - From Gainsborough Rd to Regency Dr	Major/Collector	3.10	0.20	0.40	0.77	4.00	3.85
Zone 6 - From Regency Dr to Georgetowne Dr	Major/Collector	3.20	0.30	0.40	1.15	4.00	3.83
Zone 7 - From Georgetowne Dr to Deborah Dr	Major/Collector	3.20	0.30	0.40	1.01	4.00	3.37
Zone 8 - From Deborah Dr to Cedar Ridge Dr	Major/Collector	3.10	0.30	0.40	1.09	4.00	3.63
Zone 9 - From Cedar Ridge Dr to Seven Locks Rd	Major/Collector	0.70	0.20	0.40	0.58	4.00	2.90

Recommended Intersection Values from Table D1 : Illuminance Method - Recommended Maintained Values of the ANSI / IESNA RP-8-00



35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by : R.W.M. Drawn by : S.X. Checked by : J.L.R.

TAX MAPS: HQ31, HQ32, Q0121 WSSC GRIDS: 215N09, 214N09, 214N08

PLAN SHEET LT-13 LIGHTING PLANS TUCKERMAN LANE SIDEWALK/BIKEWAY PROJECT - SGEMENT 1 STA. 183+50 TO STA. 190+50

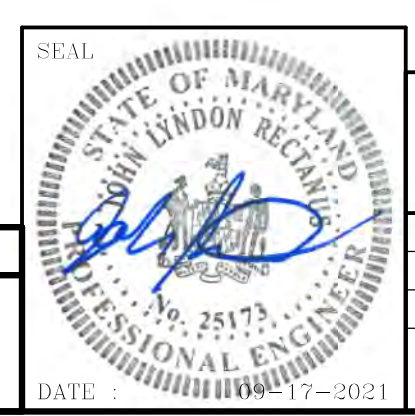
SCALE: 1"=30' 10/2021

Project No. : C.I.P. PR. # 509337 SHEET 117 of 175

PROFESSIONAL CERTIFICATION

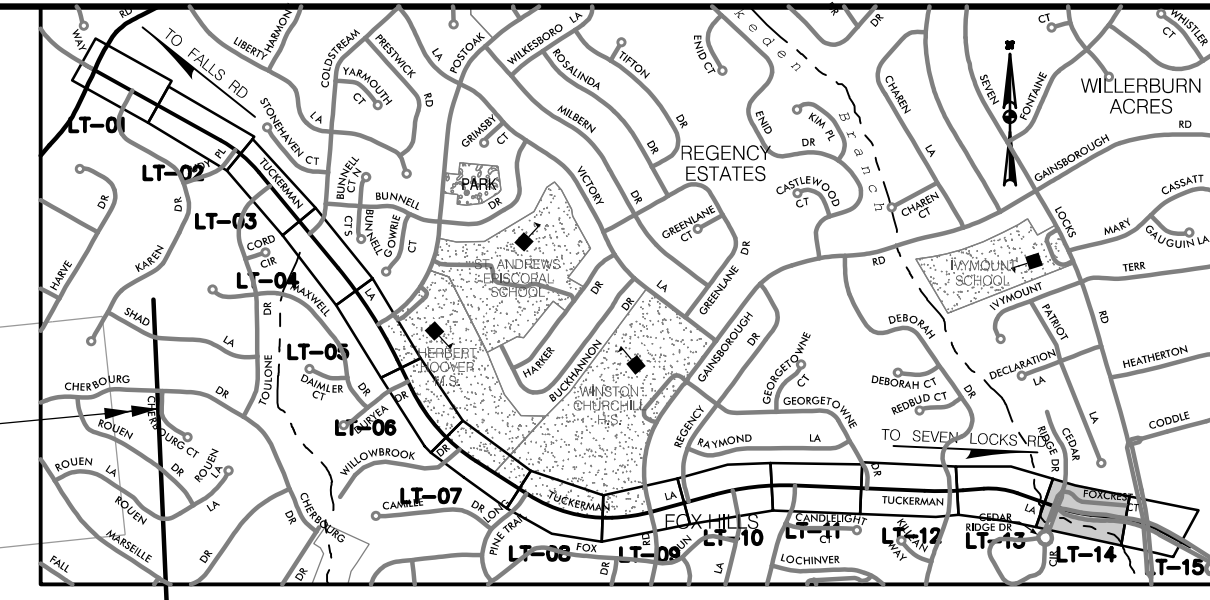
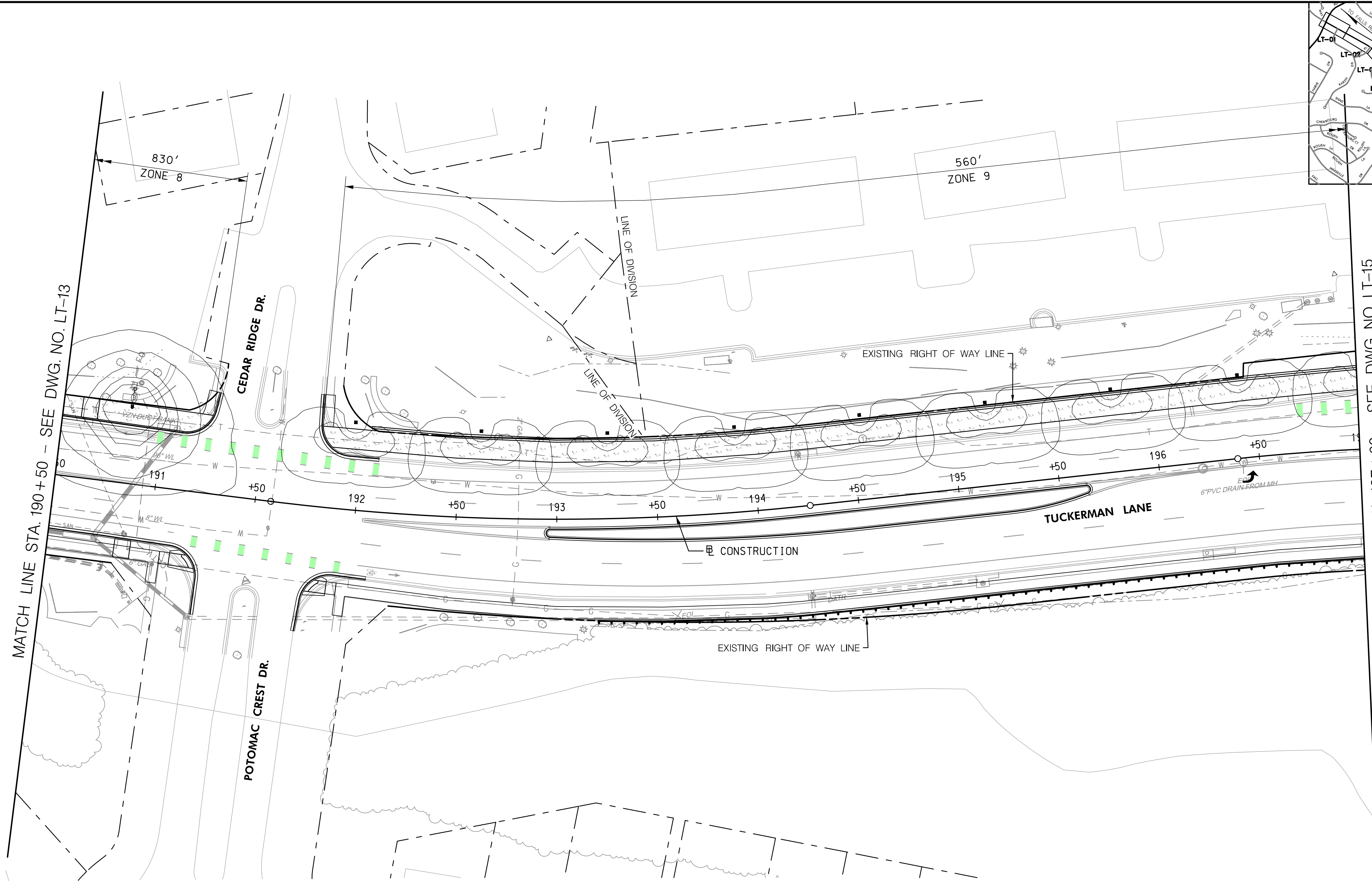
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

JOHN L. RECTANUS MD NO-25173 EXP-06/21/2023



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BY: sabbasgholipour -



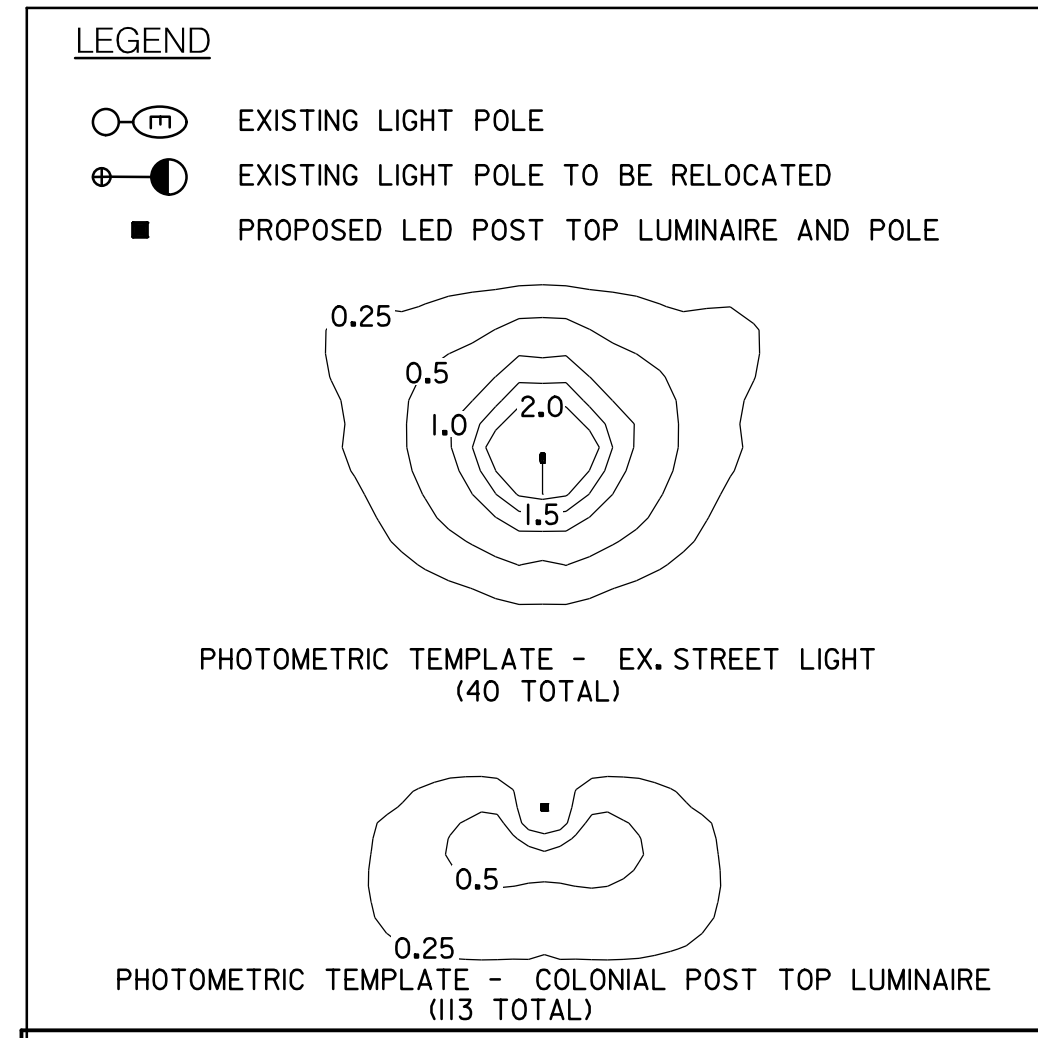
LOCATION MAP
SCALE 1"=1500'

MATCH LINE STA. 190+50 - SEE DWG. NO. LT-13

MATCH LINE STA. 197+00 - SEE DWG. NO. LT-15

LIGHTING CALCULATIONS FOR TUCKERMAN LANE							
Lighting Calculation Zone	Roadway Classification	Maximum Illuminance Level (fc)	Minimum Illuminance Level (fc)	Average Illuminance (E_{avg}) Min (fc) Recommended	Average Illuminance (E_{avg}) Min (fc) Calculated	Uniformity Ratio (E_{avg}/E_{min}) Max Recommended	Uniformity Ratio (E_{avg}/E_{min}) Max Calculated
Zone 1 - From MD 189 to Coldstream Dr	Major/Collector	3.20	0.30	0.40	0.83	4.00	2.77
Zone 2 - From Coldstream Dr to Post oak Rd	Major/Collector	3.10	0.40	0.40	0.96	4.00	2.40
Zone 3 - From Post oak Rd to Duryea Dr	Major/Collector	3.20	0.40	0.40	1.12	4.00	2.80
Zone 4 - From Duryea Dr to Gainsborough Rd	Major/Collector	3.10	0.20	0.40	0.72	4.00	3.60
Zone 5 - From Gainsborough Rd to Regency Dr	Major/Collector	3.10	0.20	0.40	0.77	4.00	3.85
Zone 6 - From Regency Dr to Georgetowne Dr	Major/Collector	3.20	0.30	0.40	1.15	4.00	3.83
Zone 7 - From Georgetowne Dr to Deborah Dr	Major/Collector	3.20	0.30	0.40	1.01	4.00	3.37
Zone 8 - From Deborah Dr to Cedar Ridge Dr	Major/Collector	3.10	0.30	0.40	1.09	4.00	3.63
Zone 9 - From Cedar Ridge Dr to Seven Locks Rd	Major/Collector	0.70	0.20	0.40	0.58	4.00	2.90

Recommended Intersection Values from Table D1 : Illuminance Method - Recommended Maintained Values of the ANSI / IESNA RP-8-00

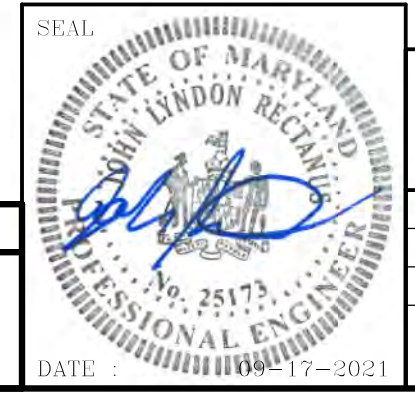


TAX MAPS: HQ31, HQ32, Q0121 WSSC GRIDS: 215NW09, 214NW09, 214NW08

BY: sabbasgholipour -

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JOHN L. RECTANUS MD NO-25173 EXP-06/21/2023



35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
APPROVED

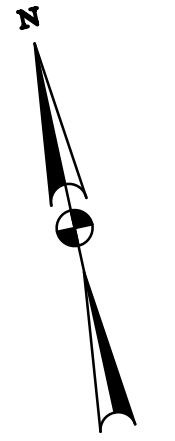
Chief, Division of Engineering Services _____ Date _____

Designed by : R.W.M. Drawn by : S.X. Checked by : J.L.R.

PLAN SHEET LT-14
LIGHTING PLANS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 191+00 TO STA. 197+00

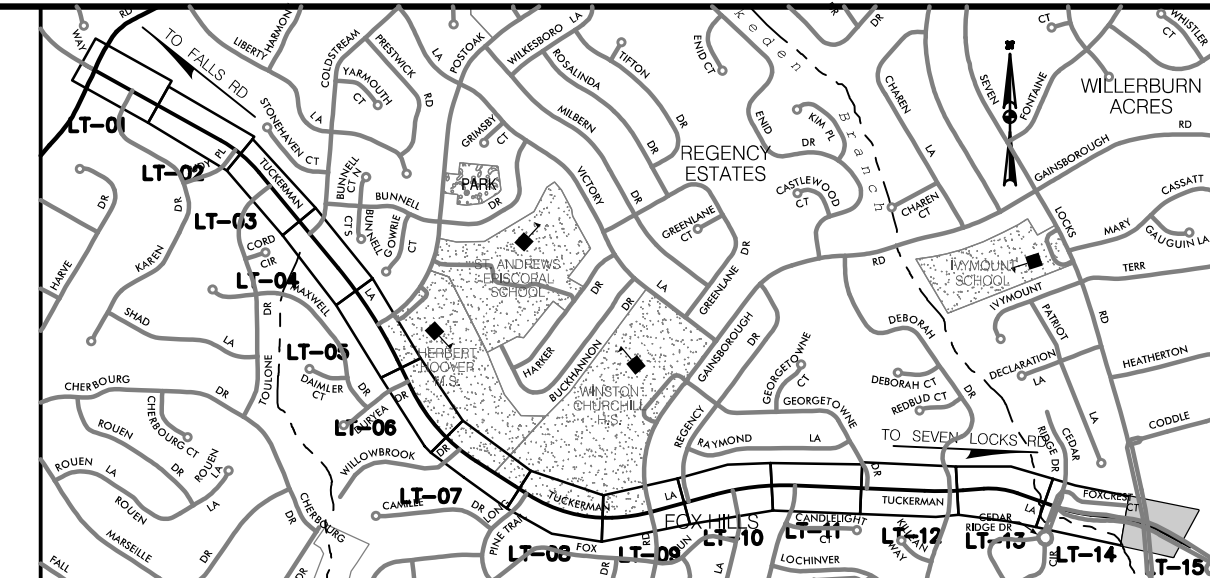
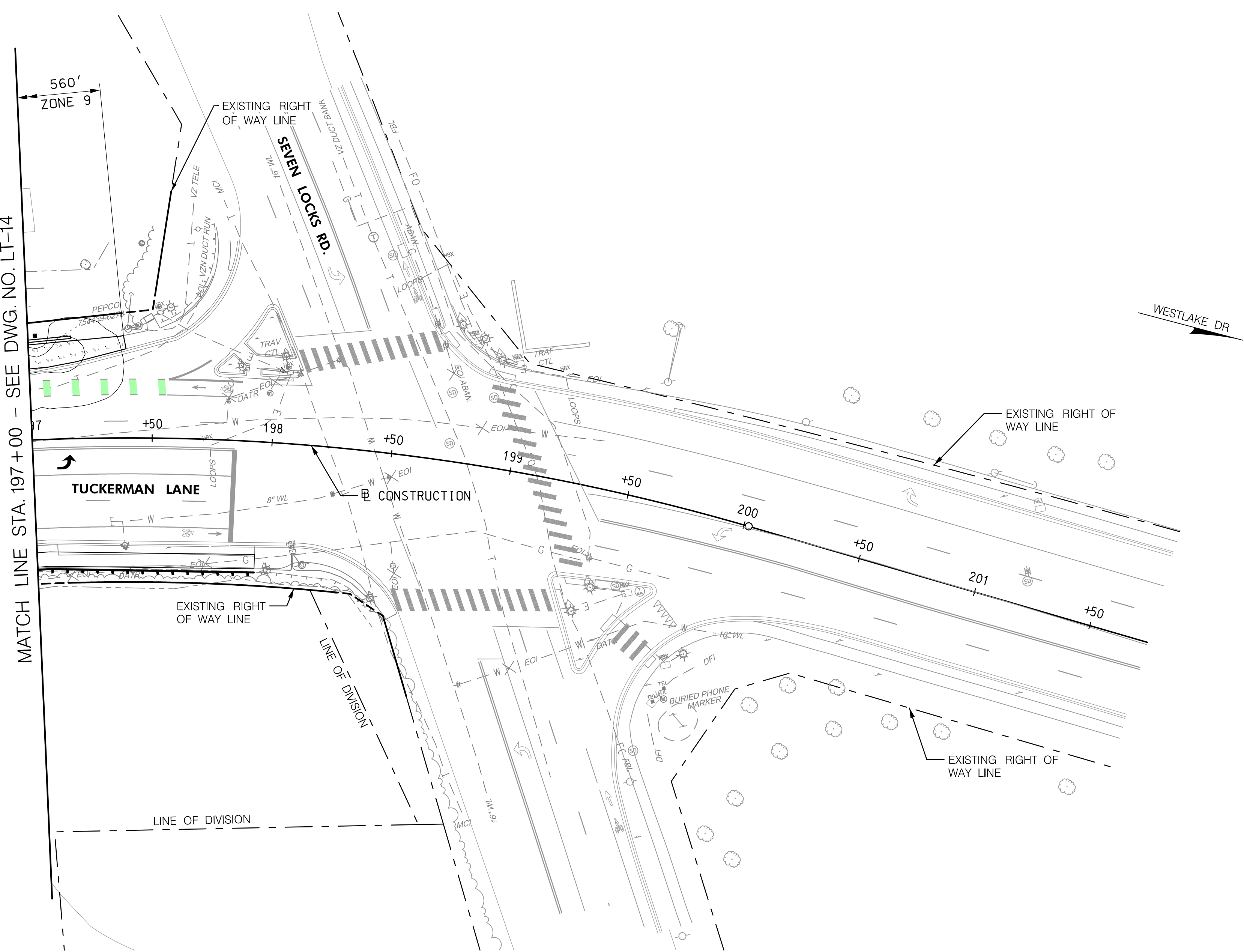
SCALE : 1"= 30'

Project No. : C.I.P. PR. # 509337 SHEET 118 of 175



CEDAR RIDGE DR

MATCH LINE STA. 197+00 - SEE DWG. NO. LT-14

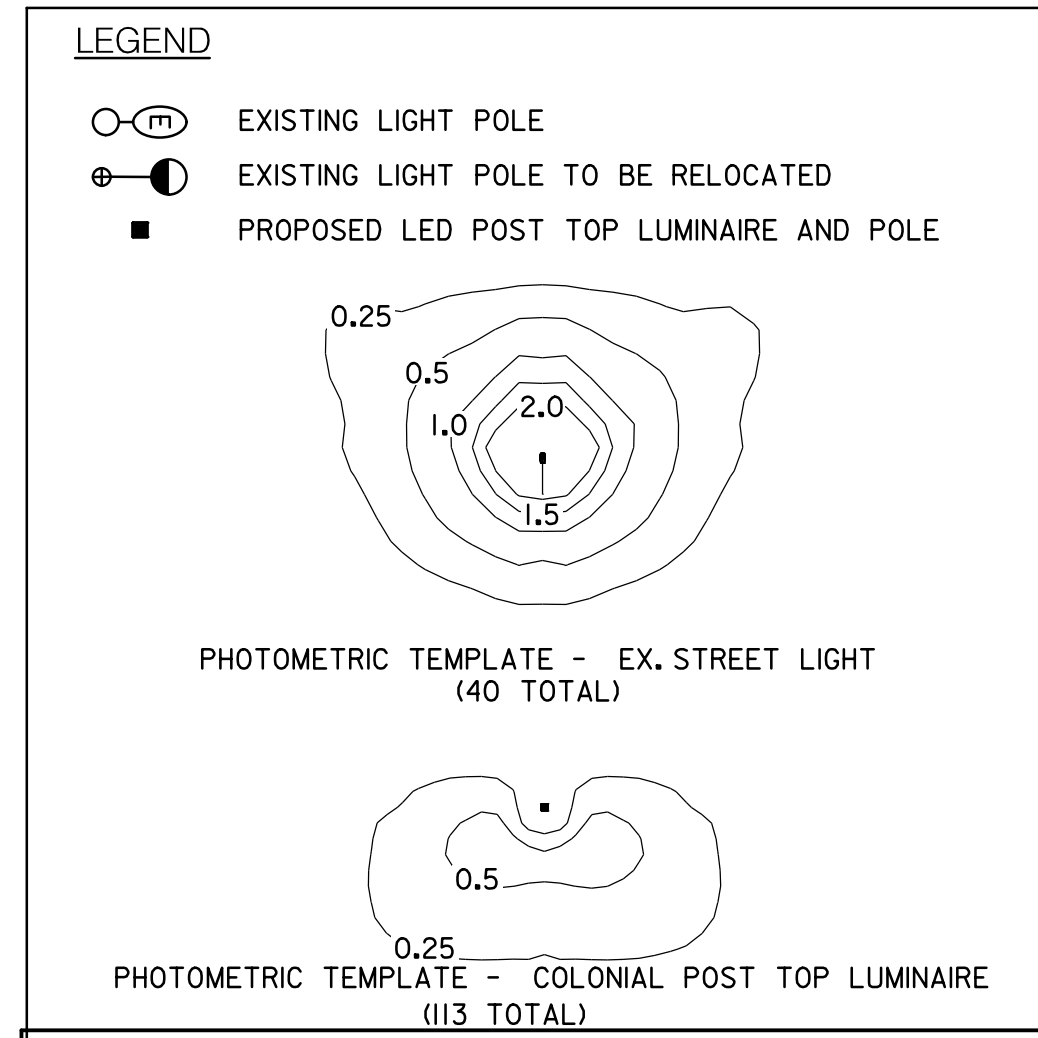


LOCATION MAP
SCALE 1"=1500'

LIGHTING CALCULATIONS FOR TUCKERMAN LANE

Lighting Calculation Zone	Roadway Classification	Maximum Illuminance Level (fc)	Minimum Illuminance Level (fc)	Average Illuminance (E _{avg}) Min (fc) Recommended	Average Illuminance (E _{avg}) Min (fc) Calculated	Uniformity Ratio (E _{avg} /E _{min}) Max Recommended	Uniformity Ratio (E _{avg} /E _{min}) Max Calculated
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Recommended Intersection Values from Table D1 : Illuminance Method - Recommended Maintained Values of the ANSI / IESNA RP-8-00



TAX MAPS: HQ31, HQ32, Q0121 WSSC GRIDS: 215NW09, 214NW09, 214NW08

35% SUBMITTAL

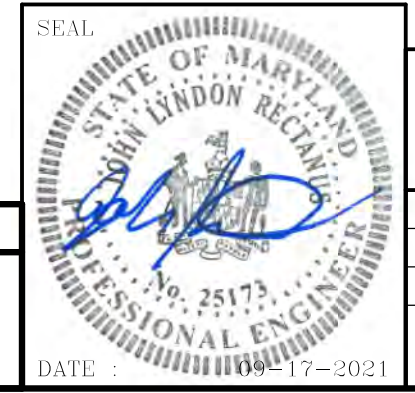
DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL
Chief, Design Section
APPROVED
Chief, Division of Engineering Services
Designed by: R.W.M. Drawn by: S.X. Checked by: J.L.R.

PLAN SHEET LT-15
LIGHTING PLANS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 197+00 TO STA. 201+50
SCALE: 1"= 30'
Project No.: C.I.P. PR. # 509337 SHEET 119 of 175

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
JOHN L. RECTANUS MD NO-25173 EXP-06/21/2023



NO.	REVISION	DATE	BY

BY: sabbasgholipour

WALLACE MONTGOMERY
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10150 York Road, Suite 200
Hunt Valley, Maryland 21030
410.494.9093 | Fax: 410.967.0925
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PLOTTED: 3/8/2023
FILE: M:\PROJ\220015\00011\Traffic_Cadd\LT-15_Tuckerman.dgn

GRADING TABLE

ROADWAY	EXCAVATION																			EMBANKMENT			
	STATIONS		CUT FROM XSECTS	CLASS 1 TOPSOIL		CLASS 2 ROOTMAT		TOTAL	SUITABLE FOR EMBANK.	SHRINK/SWELL FACTOR (%)	AVAIL. FOR EMBANK.	CLASS 2		EROSION & SEDIMENT		FILL		CAPPING	BORROW	SELECT BORROW			
	FROM	TO		CUT	FILL	CUT	FILL					TOTAL FROM XSECTS	AVAIL. FOR EMBANK.	ORIGINAL EXCAVATION	CLEAN-OUT EXCAVATION	FROM	XSECT	TOT. REQ. BEFORE DENSIFICATION	TOT. REQ. AFTER DENSIFICATION	FROM	XSECT	TOT. REQ. AFTER DENSIFICATION	
TUCKERMAN LANE	PS-01	100+00	106+50	XXX	XXX	XXX	XXX	XXX	XXX	0.83	XXX	0	0	XXX	XXX	XXX	XXX	0	0	0	0		
	PS-02	106+50	114+00	XXX	XXX	XXX	XXX	XXX	XXX	0.83	XXX	0	0	XXX	XXX	XXX	XXX	0	0	0	0		
	PS-03	114+00	121+00	XXX	XXX	XXX	XXX	XXX	XXX	0.83	XXX	0	0	XXX	XXX	XXX	XXX	0	0	0	0		
	PS-04	121+00	128+00	XXX	XXX	XXX	XXX	XXX	XXX	0.83	XXX	0	0	XXX	XXX	XXX	XXX	0	0	0	0		
	PS-05	128+00	135+00	XXX	XXX	XXX	XXX	XXX	XXX	0.83	XXX	0	0	XXX	XXX	XXX	XXX	0	0	0	0		
	PS-06	135+00	141+50	XXX	XXX	XXX	XXX	XXX	XXX	0.83	XXX	0	0	XXX	XXX	XXX	XXX	0	0	0	0		
	PS-07	141+50	148+50	XXX	XXX	XXX	XXX	XXX	XXX	0.83	XXX	0	0	XXX	XXX	XXX	XXX	0	0	0	0		
	PS-08	148+50	155+50	XXX	XXX	XXX	XXX	XXX	XXX	0.83	XXX	0	0	XXX	XXX	XXX	XXX	0	0	0	0		
	PS-09	155+50	162+00	XXX	XXX	XXX	XXX	XXX	XXX	0.83	XXX	0	0	XXX	XXX	XXX	XXX	0	0	0	0		
	PS-10	162+00	169+00	XXX	XXX	XXX	XXX	XXX	XXX	0.83	XXX	0	0	XXX	XXX	XXX	XXX	0	0	0	0		
	PS-11	169+00	176+00	XXX	XXX	XXX	XXX	XXX	XXX	0.83	XXX	0	0	XXX	XXX	XXX	XXX	0	0	0	0		
	PS-12	176+00	183+50	XXX	XXX	XXX	XXX	XXX	XXX	0.83	XXX	0	0	XXX	XXX	XXX	XXX	0	0	0	0		
	PS-13	183+50	191+00	XXX	XXX	XXX	XXX	XXX	XXX	0.83	XXX	0	0	XXX	XXX	XXX	XXX	0	0	0	0		
	PS-14	191+00	197+00	XXX	XXX	XXX	XXX	XXX	XXX	0.83	XXX	0	0	XXX	XXX	XXX	XXX	0	0	0	0		
	PS-15	197+00	XX+00	XXX	XXX	XXX	XXX	XXX	XXX	0.83	XXX	0	0	XXX	XXX	XXX	XXX	0	0	0	0		
	TOTAL			XXX	XXX	XXX	XXX	XXX	XXX	0.83	XXX	0	0	XXX	XXX	XXX	XXX	0	0	0	0		

GRADING TABLE QUANTITIES UNDER CONSTRUCTION

SUMMARY OF EARTHWORK

EXCAVATION

TOTAL CLASS 1 EXCAVATION	.....	C.Y.
TOTAL CLASS 2 EXCAVATION	.....	C.Y.
TOTAL EXCAVATION AVAILABLE FOR EMBANKMENT	.....	C.Y.
TOTAL EROSION & SEDIMENT CONTROL EXCAVATION	.....	C.Y.

EMBANKMENT

TOTAL COMMON BORROW REQUIRED	.....	C.Y.
TOTAL CAPPING BORROW REQUIRED	.....	C.Y.
TOTAL SELECT BORROW REQUIRED	.....	C.Y.
WASTE	.....	C.Y.
COMMON BORROW REQUIRED	.....	C.Y.
BORROW DENSIFIED ( % )	.....	C.Y.
TOTAL COMMON BORROW REQUIRED	.....	C.Y.

PROPOSAL QUANTITIES

CLASS 1 EXCAVATION	.....	C.Y.
CLASS 1-A EXCAVATION	.....	C.Y.
CLASS 2 EXCAVATION	.....	C.Y.
COMMON BORROW	.....	C.Y.
CAPPING BORROW	C.Y.
SELECT BORROW	C.Y.

BY: sabbasgholipour



WALLACE MONTGOMERY
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 10150 York Road, Suite 200
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 www.WallaceMontgomery.com

PLOTTED: 3/8/2023
 FILE: M:\PROJ\220015.0001\Highways\Cadd_pGR-S001_Tuckerman.dgn


PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD NO-31487 EXP-03/18/2023

SEAL

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

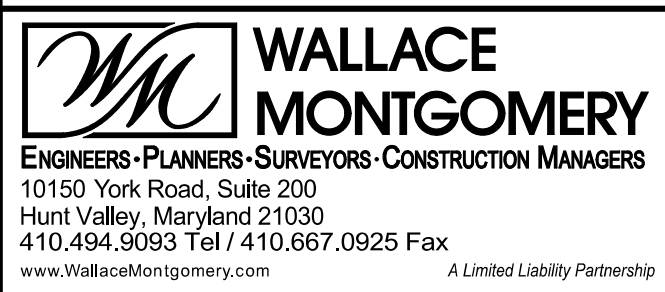
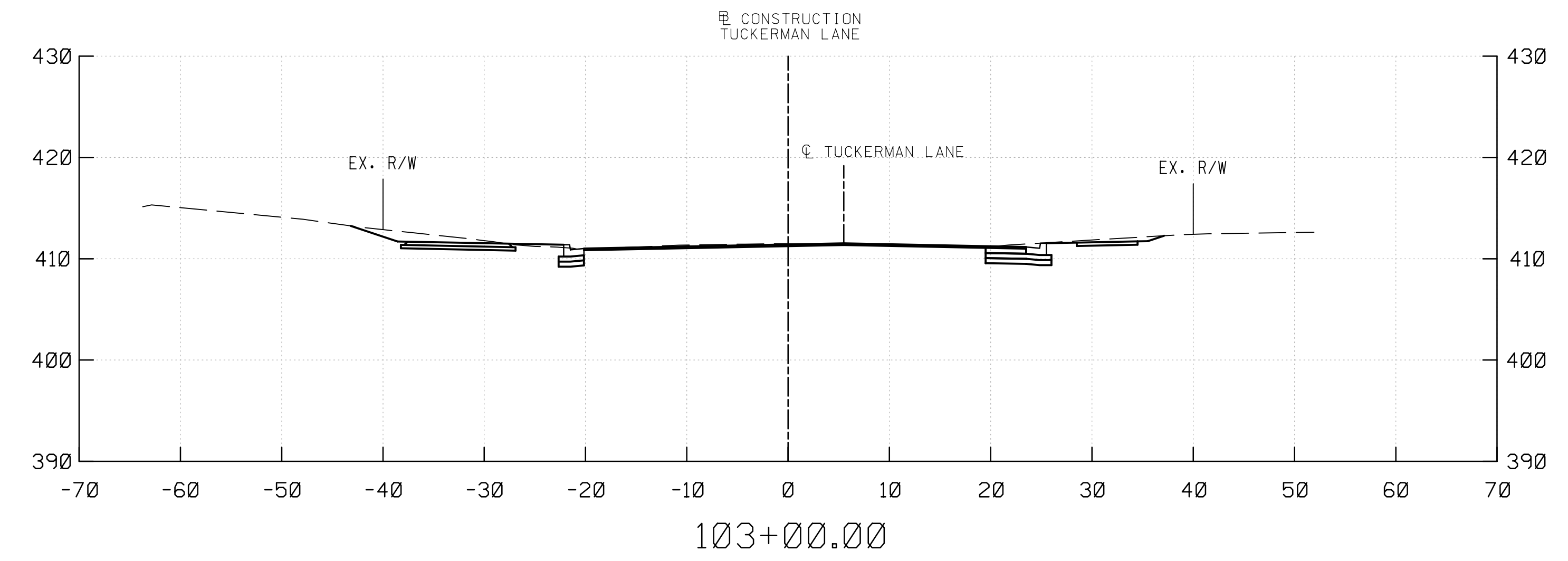
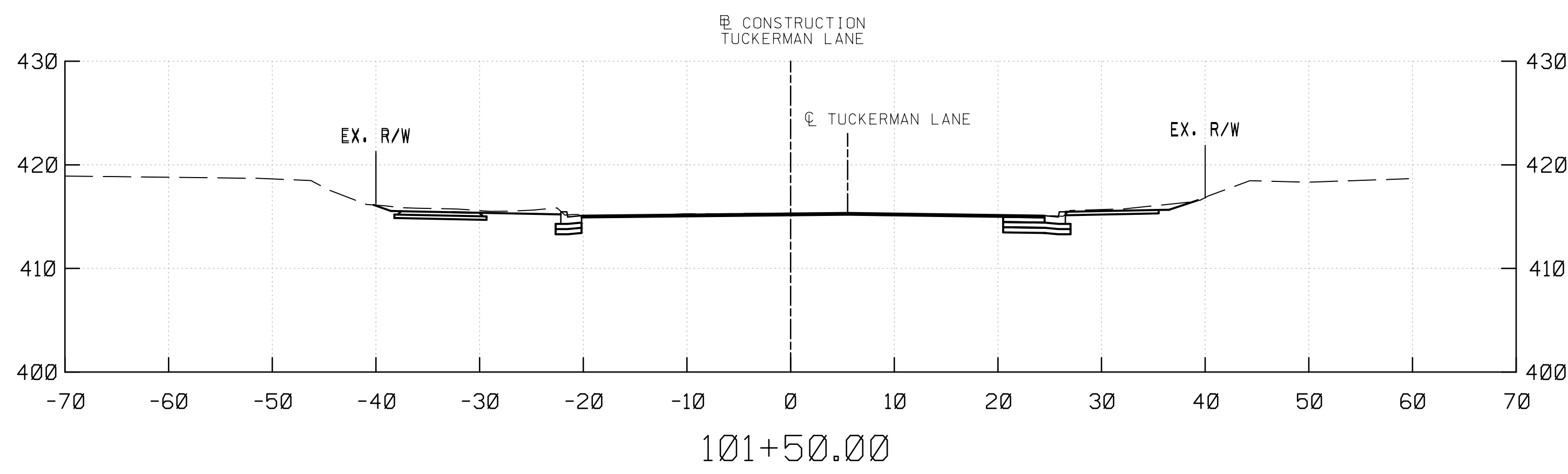
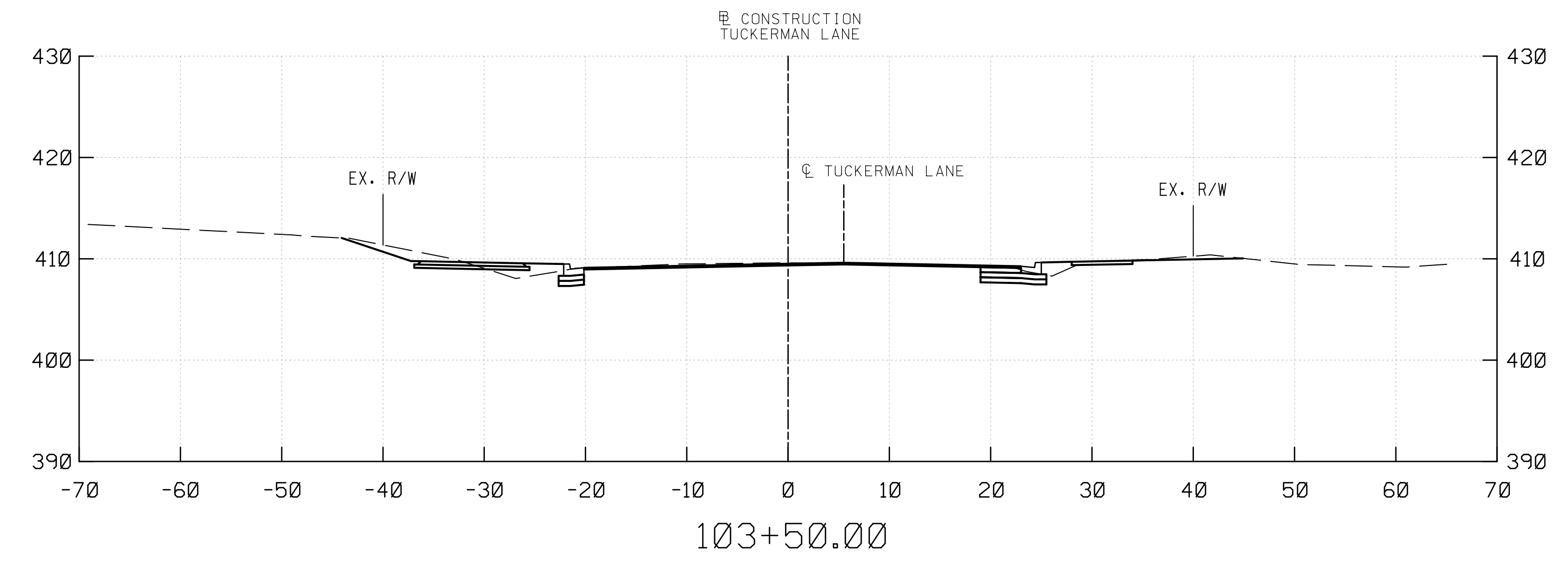
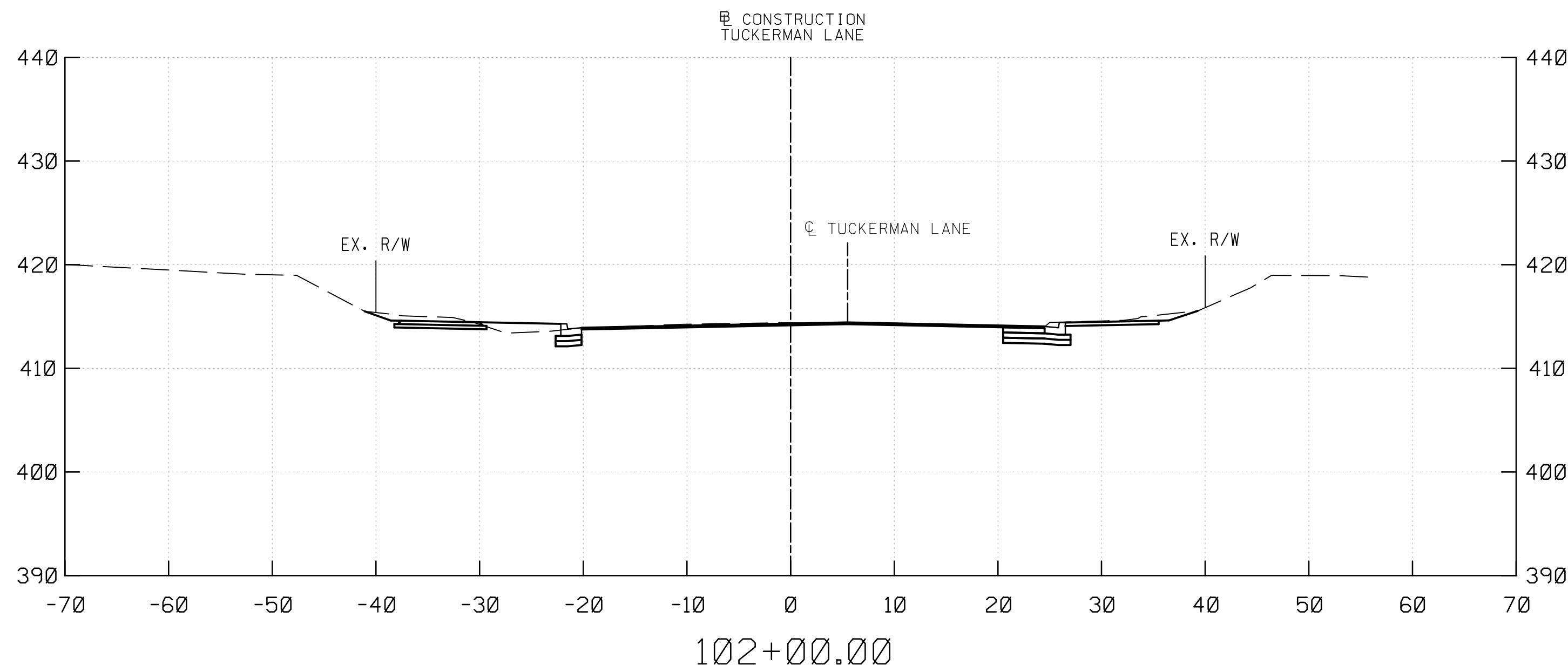
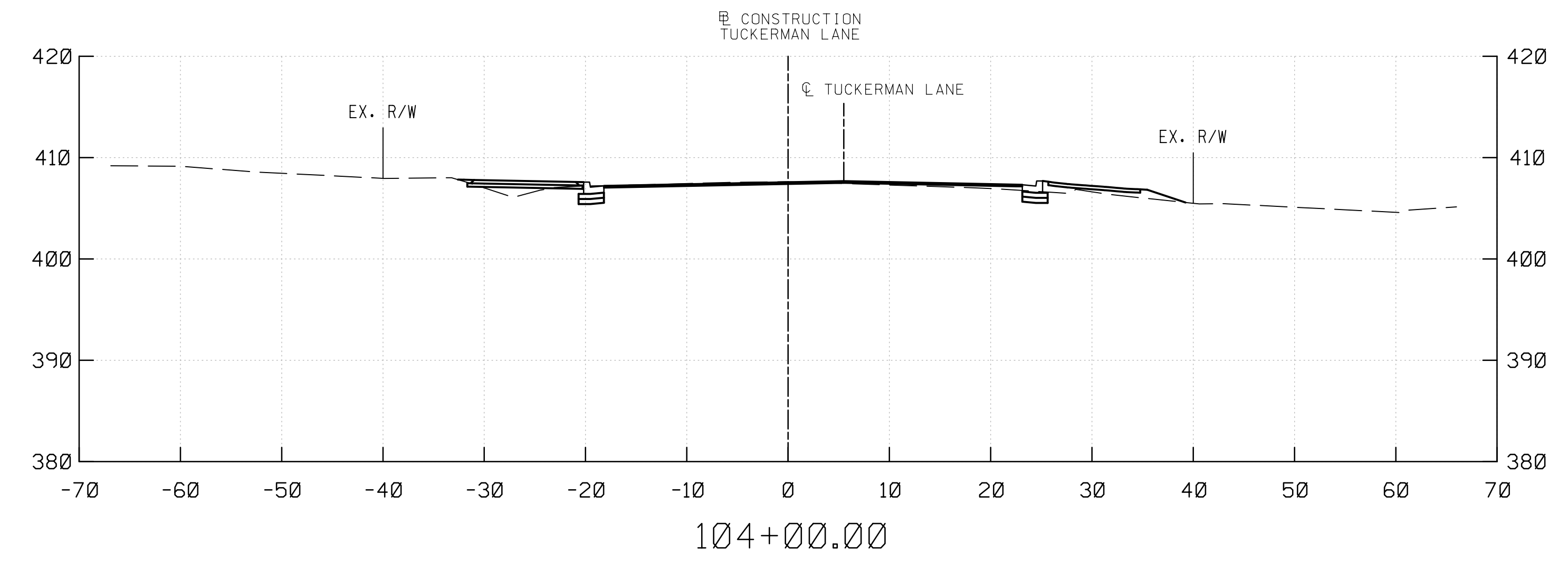
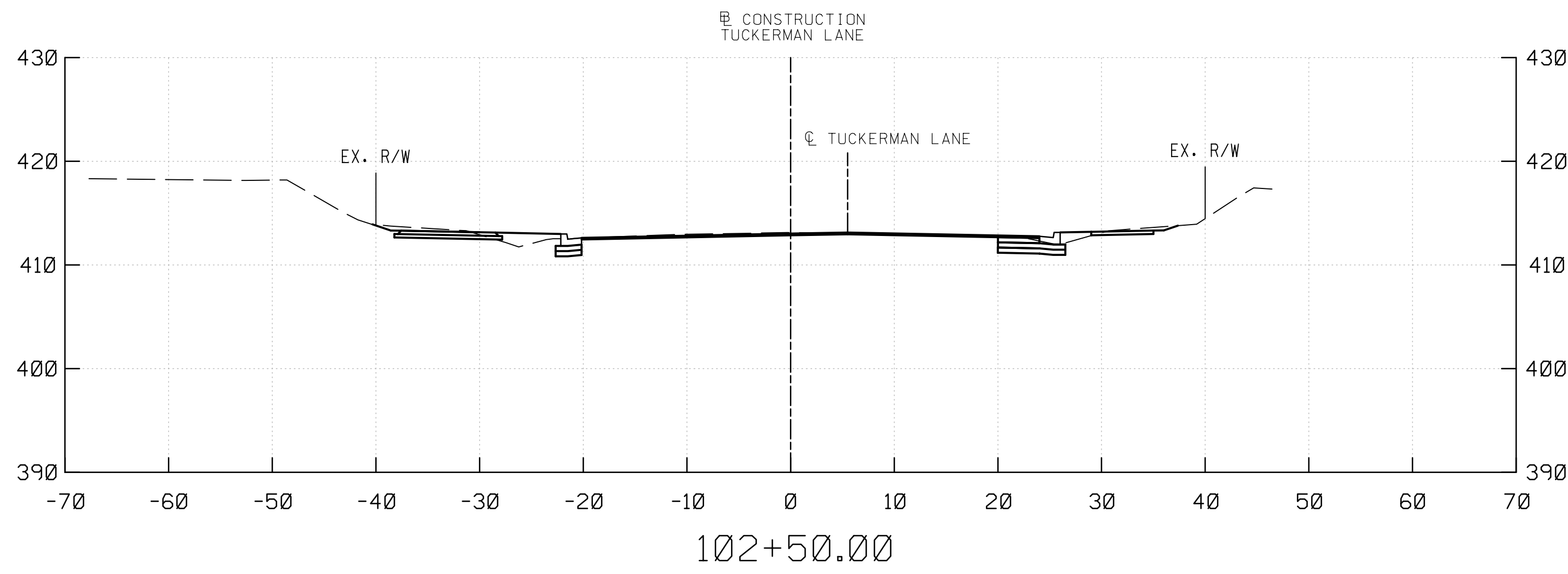
Designed by : S.A.T. Drawn by : S.A.T. Checked by : M.J.B.

TAX MAPS: HQ31, HQ32, Q0121 WSSC GRIDS: 215NW09, 214NW09, 214NW08

**PLAN SHEET GR-01
 GRADING TABLE
 TUCKERMAN LANE
 SIDEWALK/BIKEWAY
 PROJECT - SEGMENT 1**

SCALE : N.T.S. 10/2021

Project No. : C.I.P. PR. # 509337 SHEET 135 of 175



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL
 DATE: 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

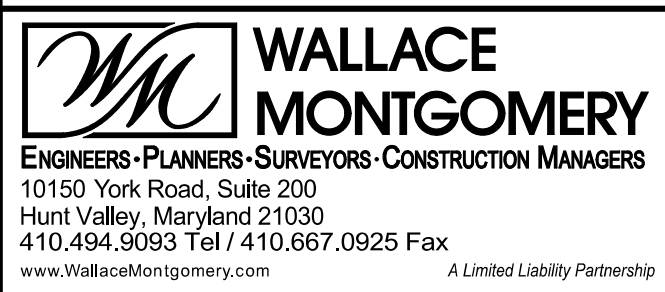
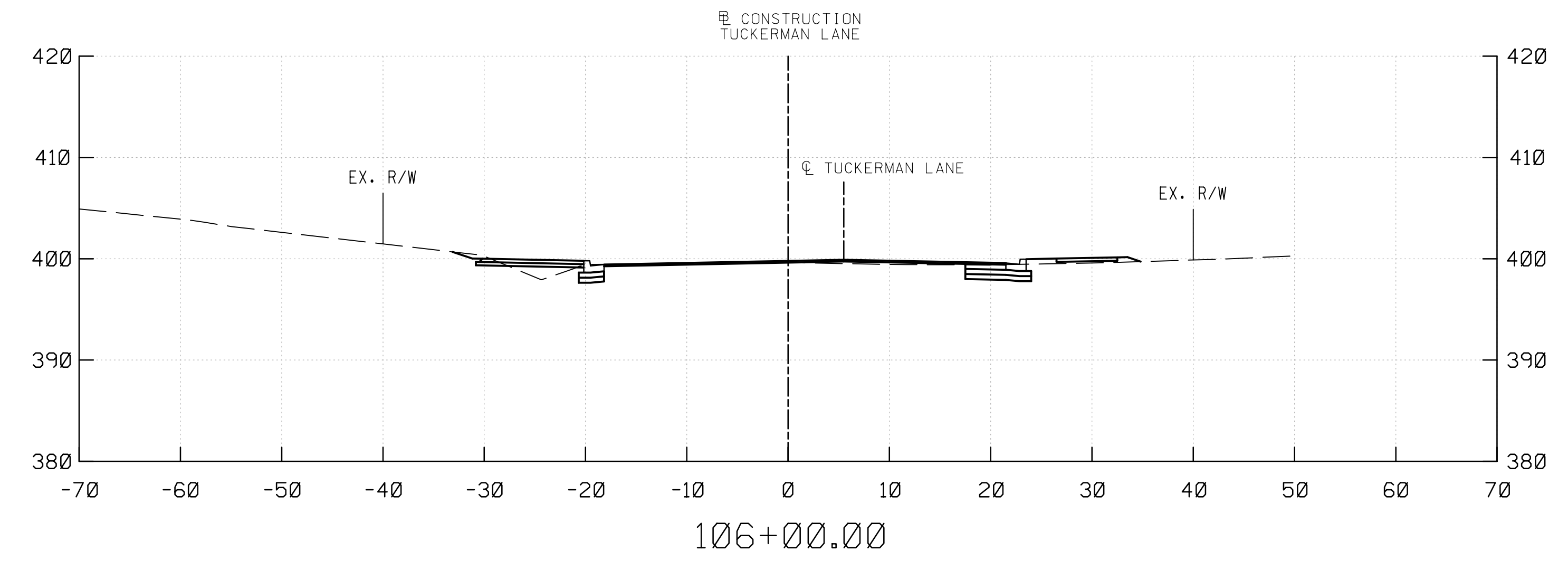
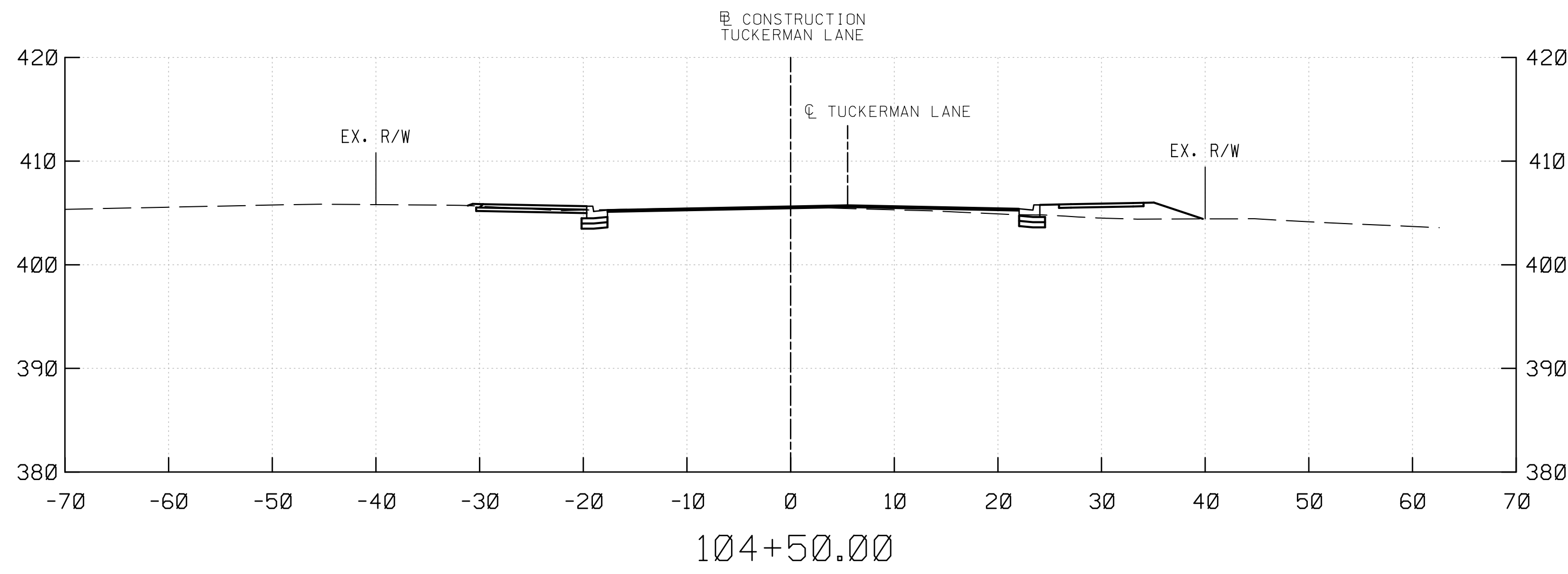
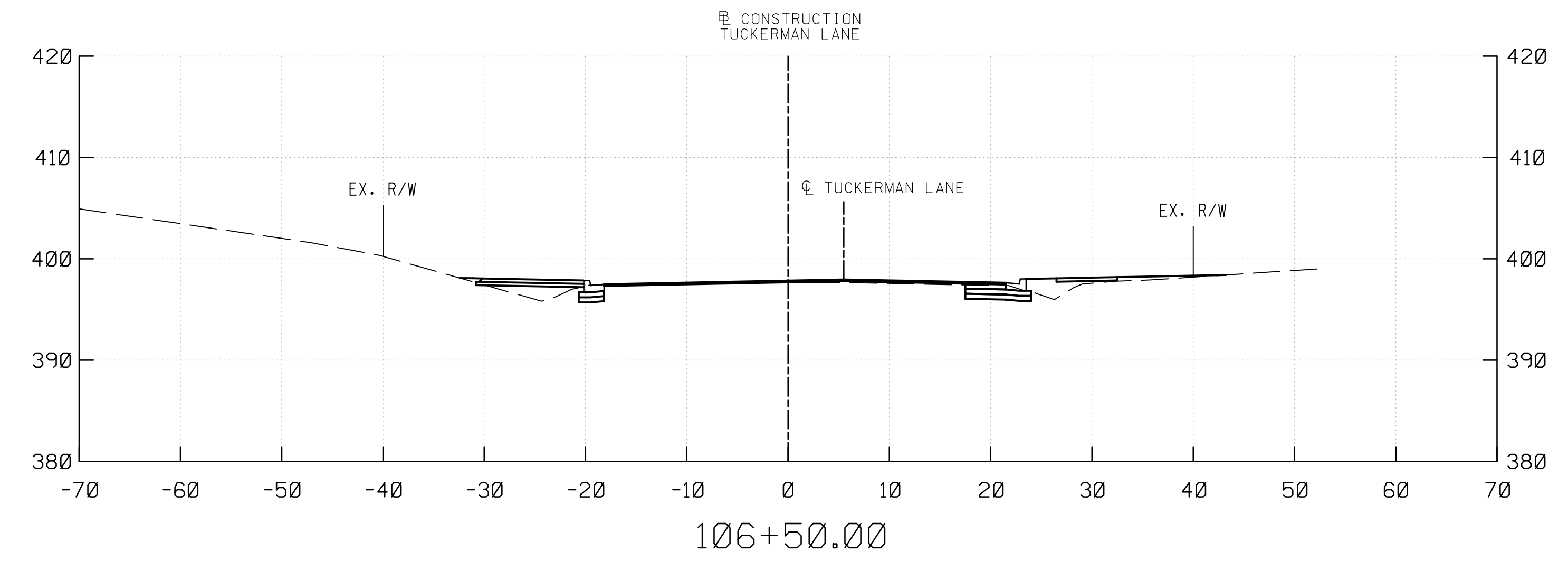
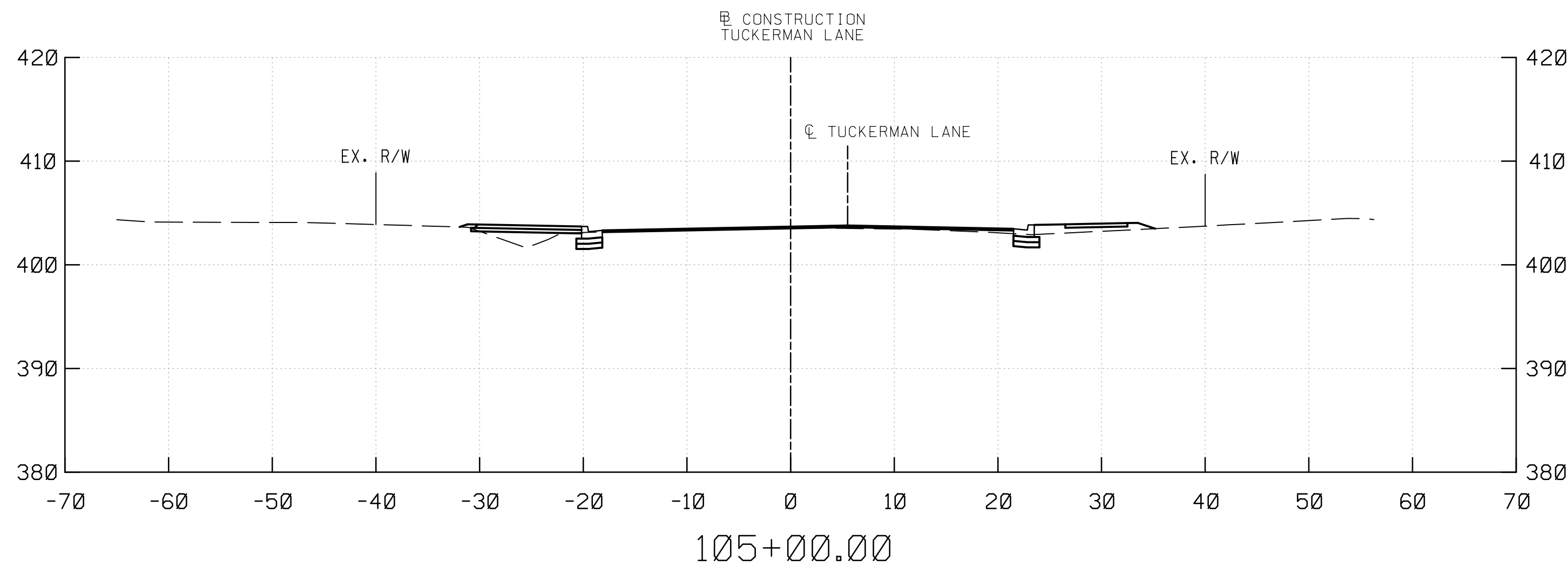
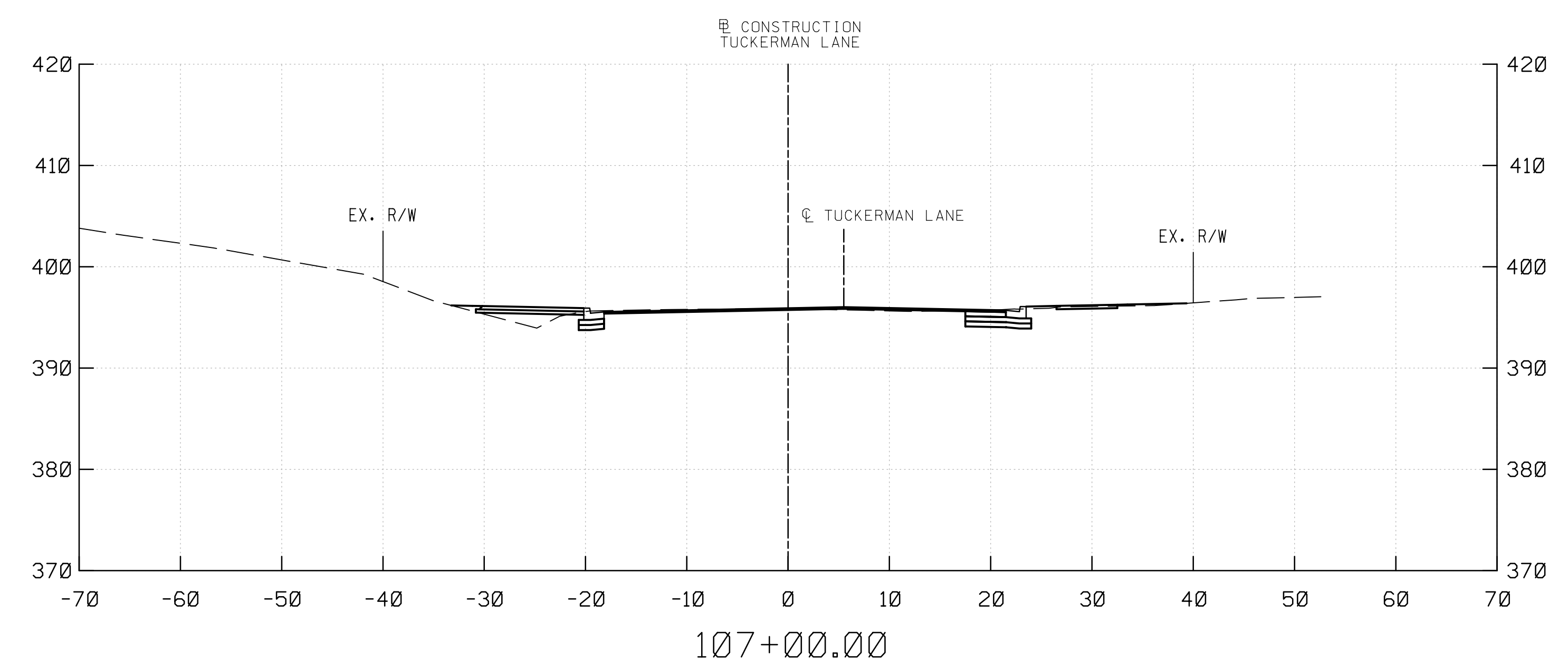
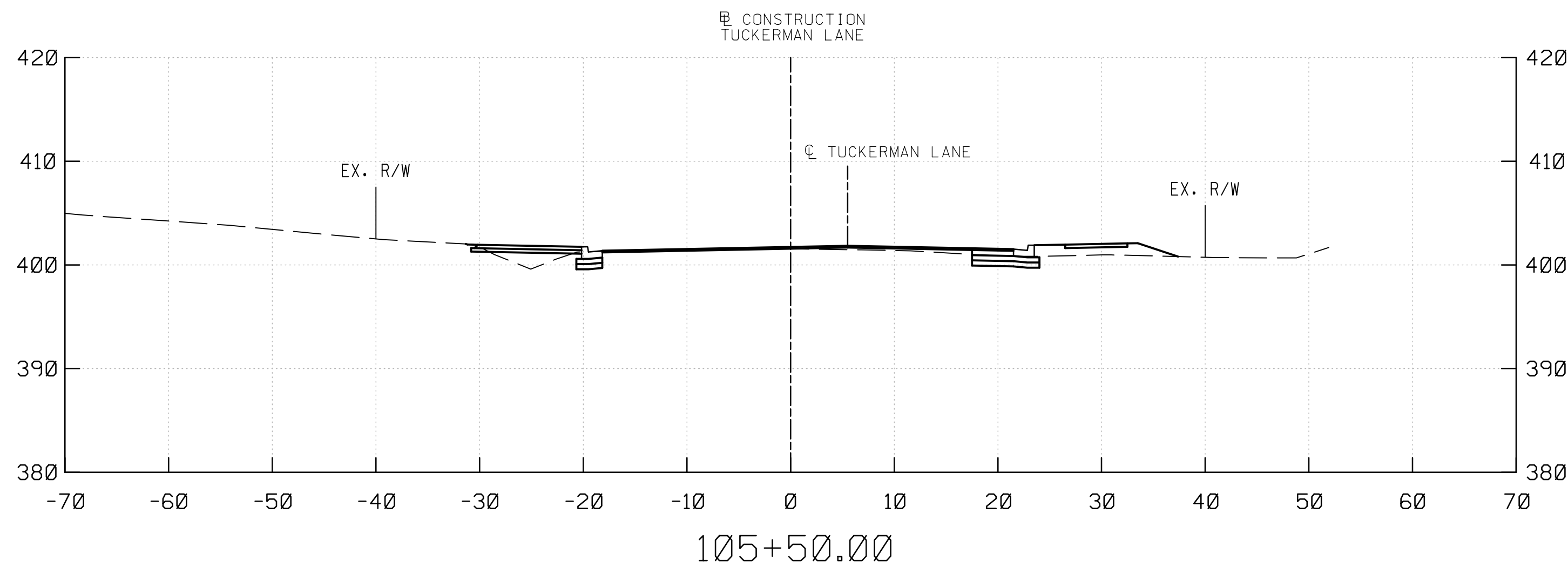
RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

PLAN SHEET CS-01
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 101+50 TO STA. 104+00
 SCALE: 1"= 10'
 Project No.: C.I.P. PR. # 509337 SHEET of 171



PROFESSIONAL CERTIFICATION
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 MARK J. BODMANN MD NO-31487 EXP-03/18/2023

SEAL
 DATE : 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

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 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

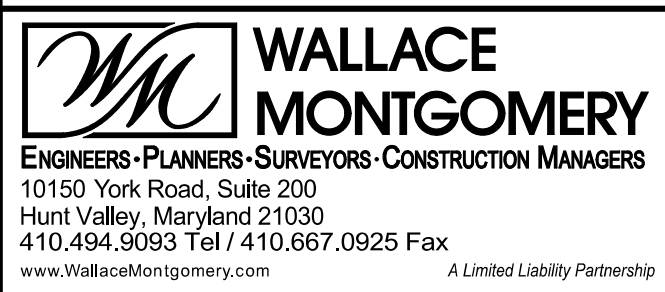
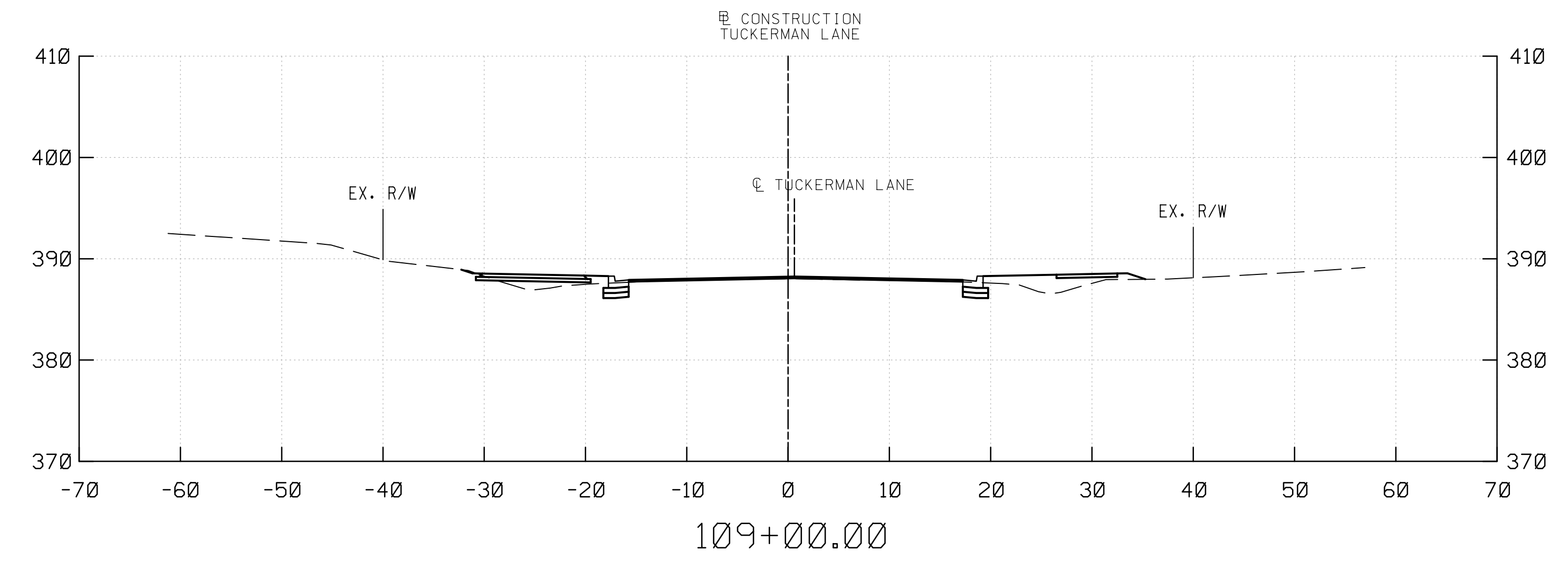
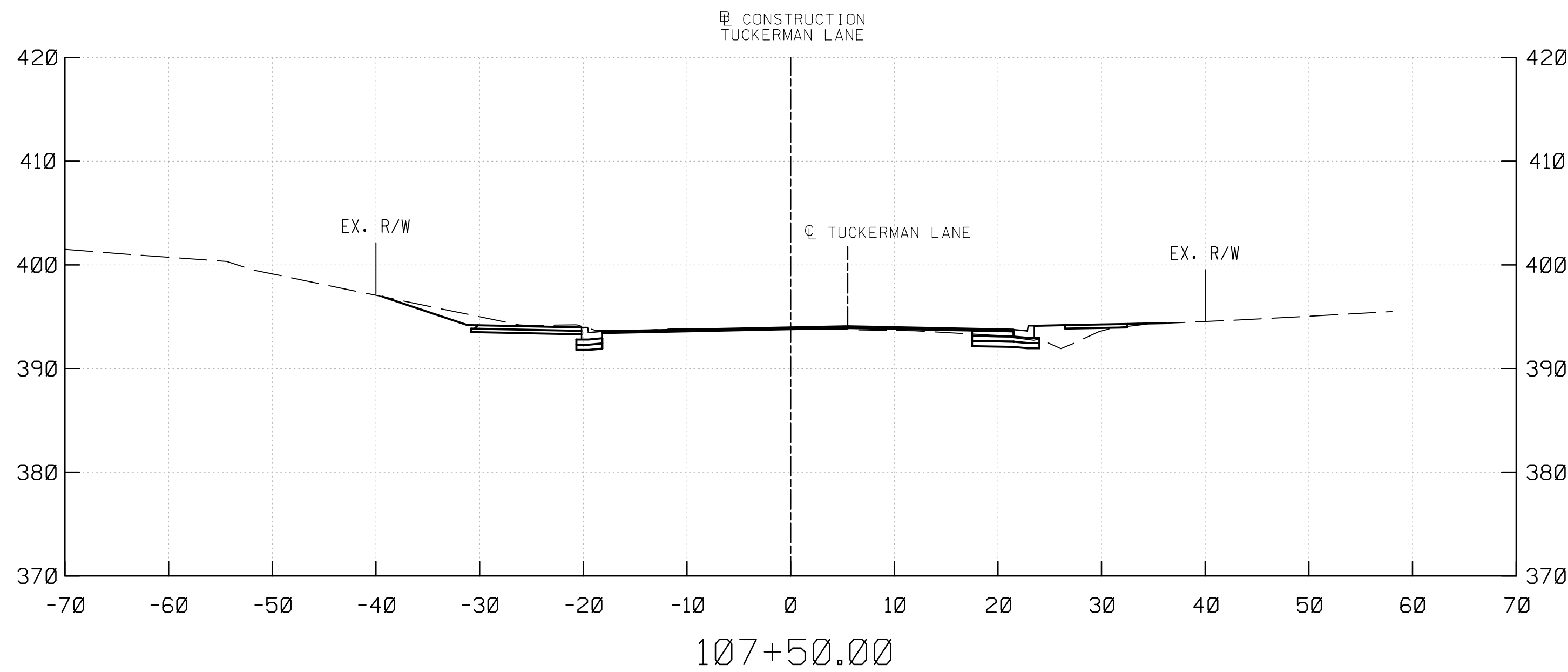
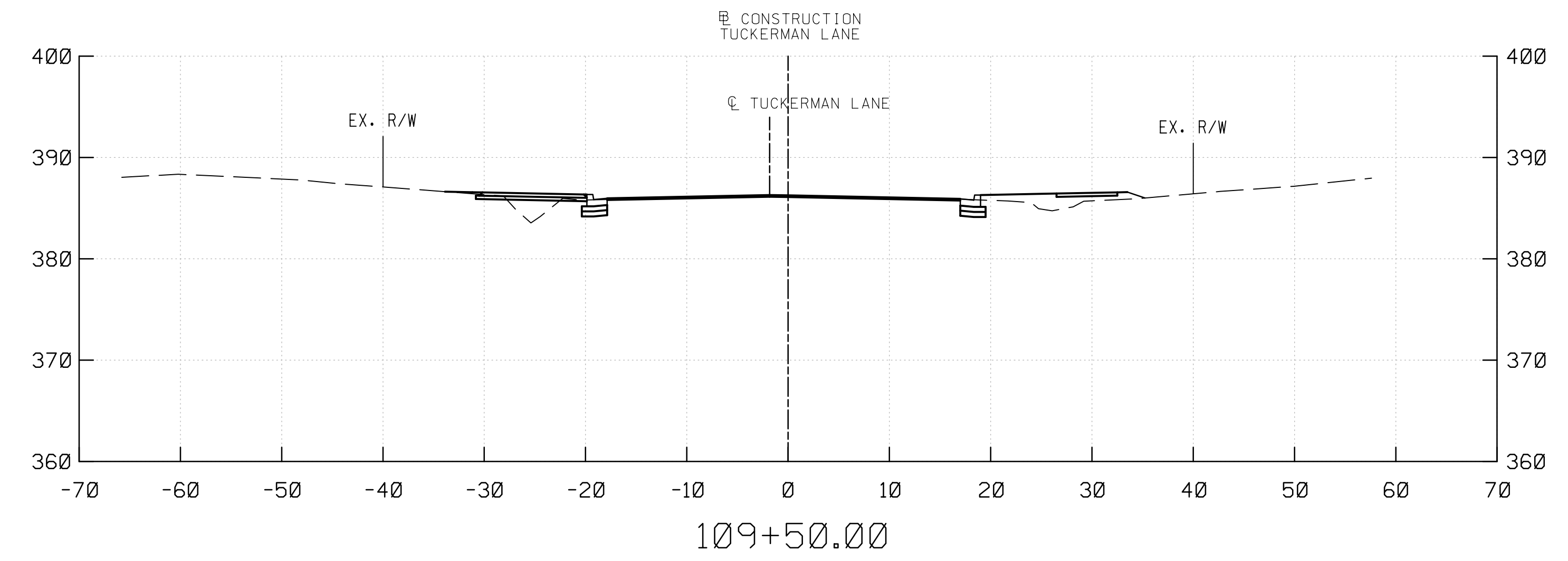
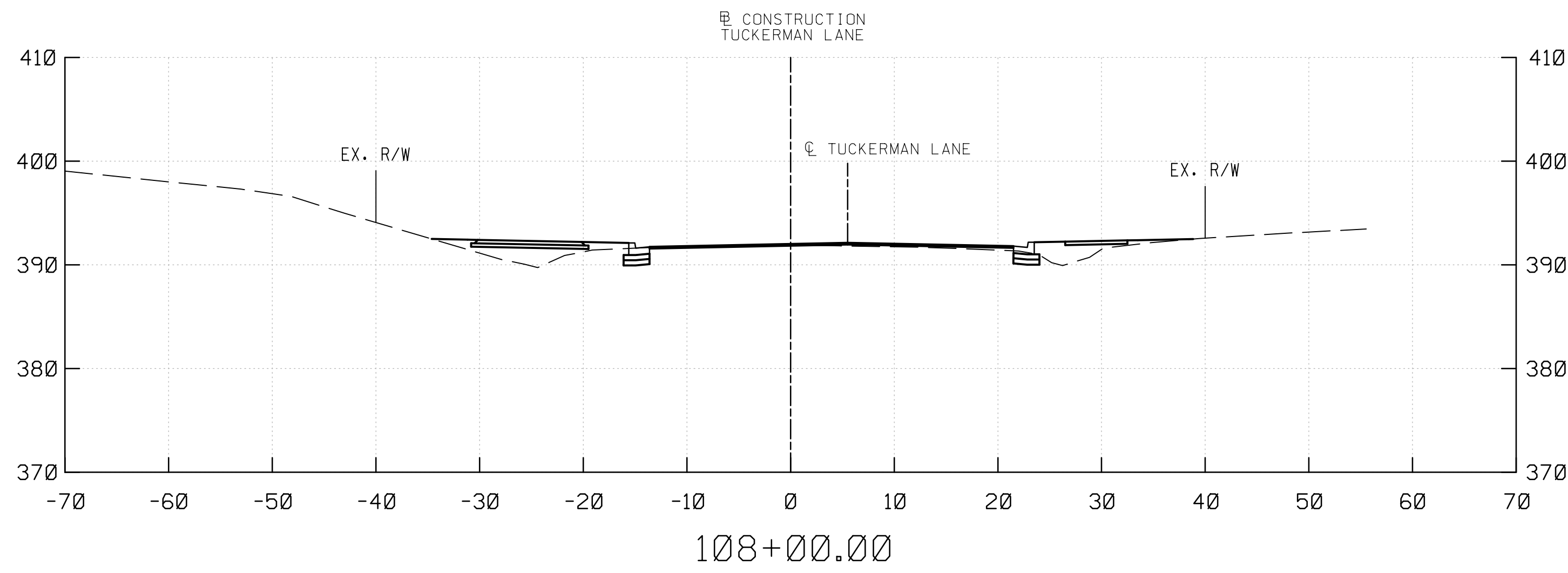
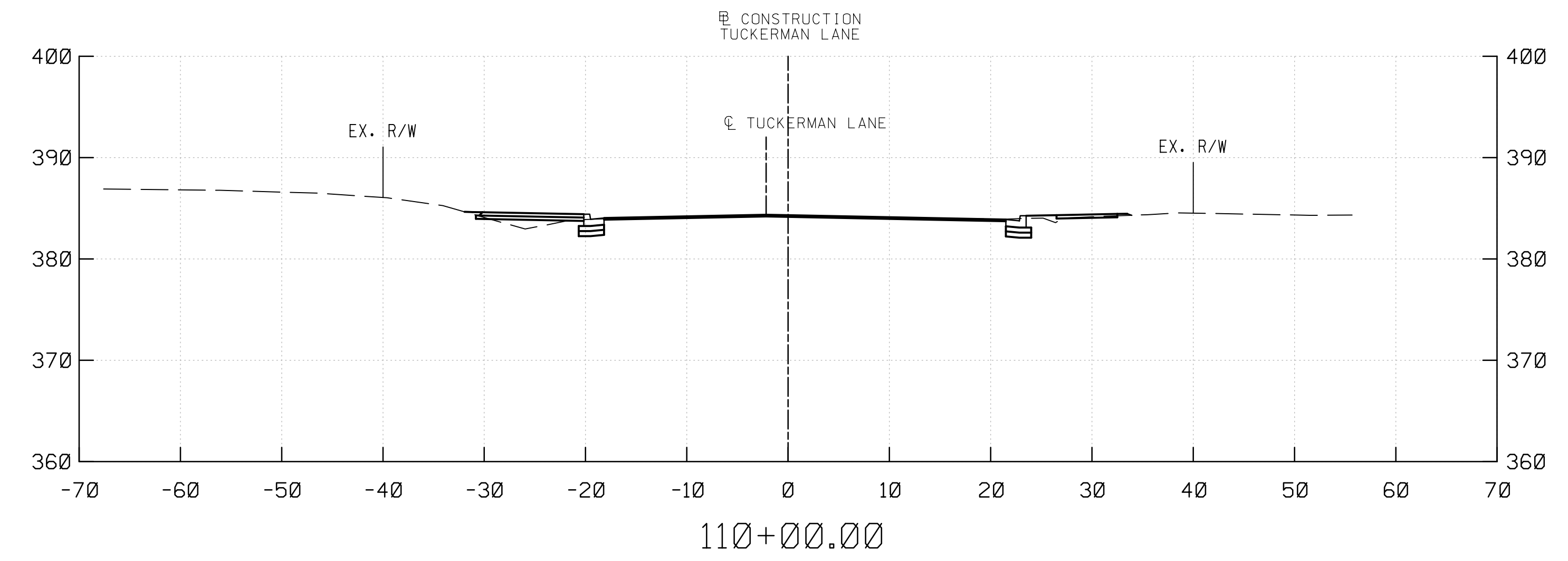
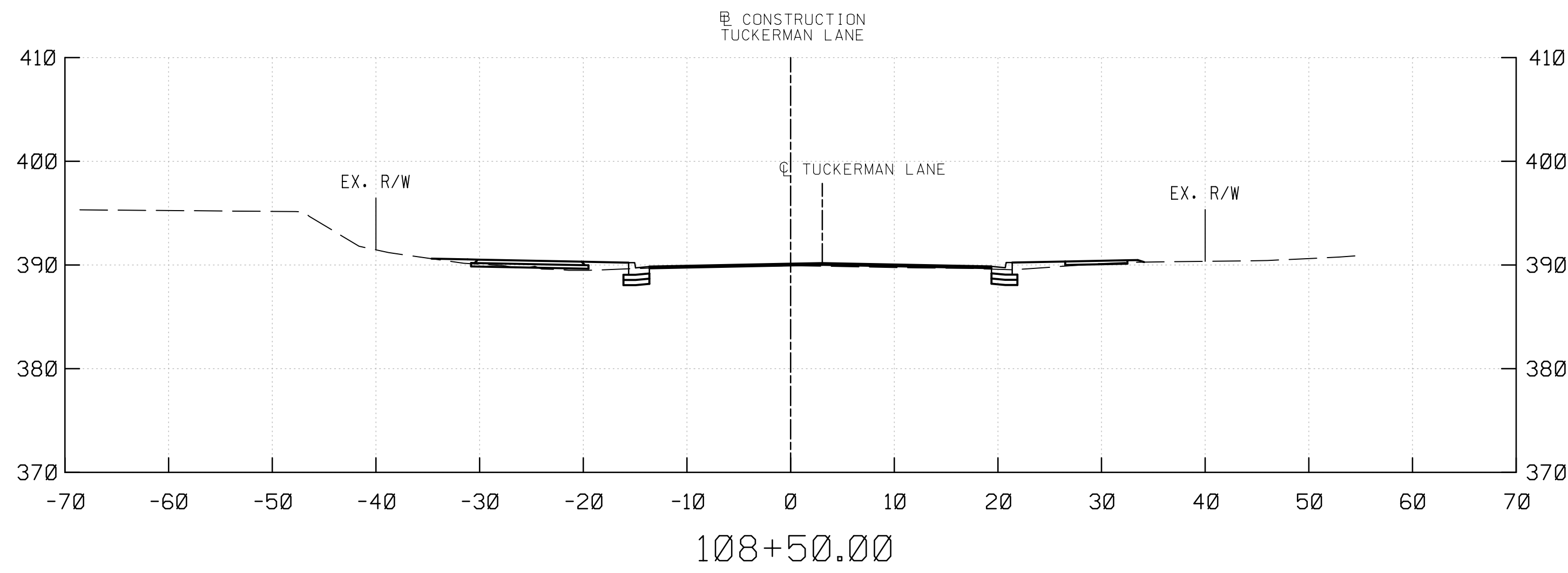
Chief, Division of Engineering Services _____ Date _____

Designed by : _____ Drawn by : _____ Checked by : _____

**PLAN SHEET CS-02
 ROADWAY CROSS SECTIONS
 TUCKERMAN LANE
 SIDEWALK/BIKEWAY
 PROJECT - SEGMENT 1
 STA. 104+50 TO STA. 107+00**

SCALE : 1" = 10' 09/2021

Project No. : C.I.P. PR. # 509337 SHEET 137 of 171



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL
 DATE: 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

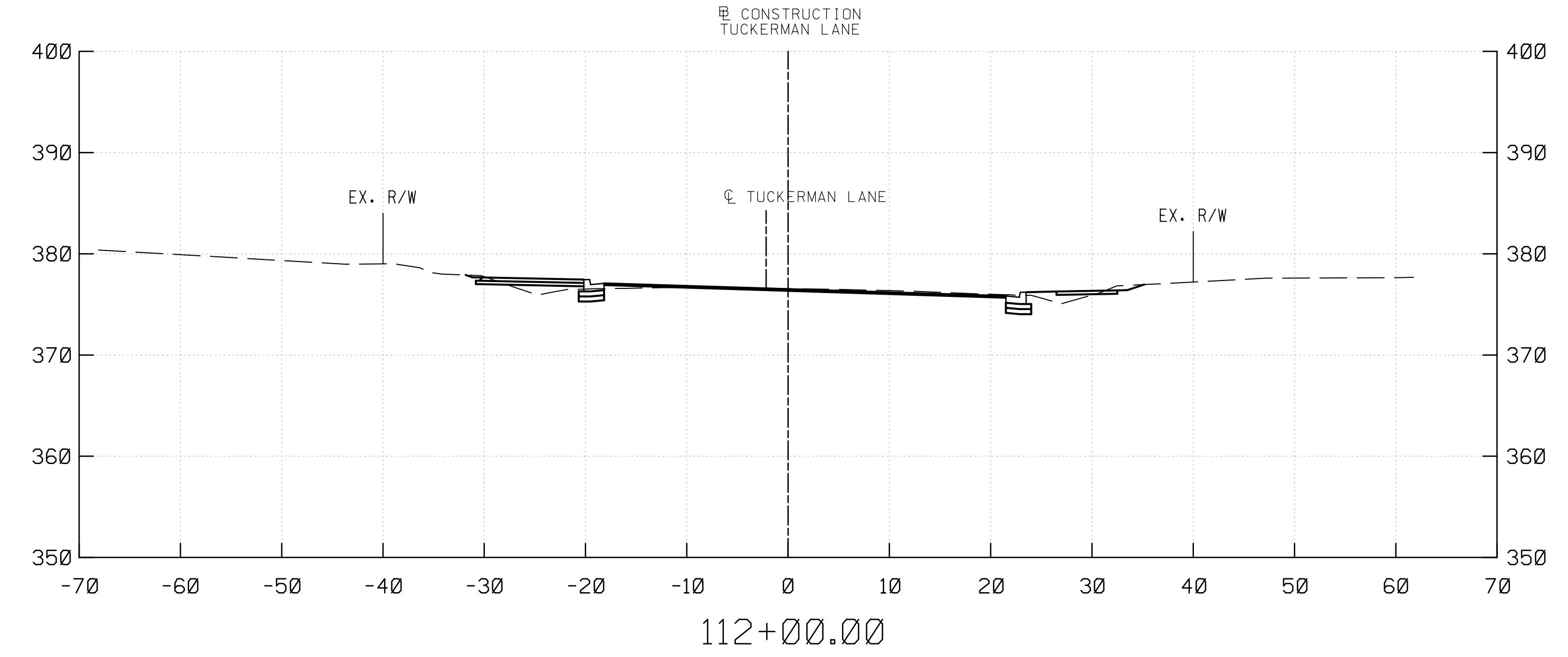
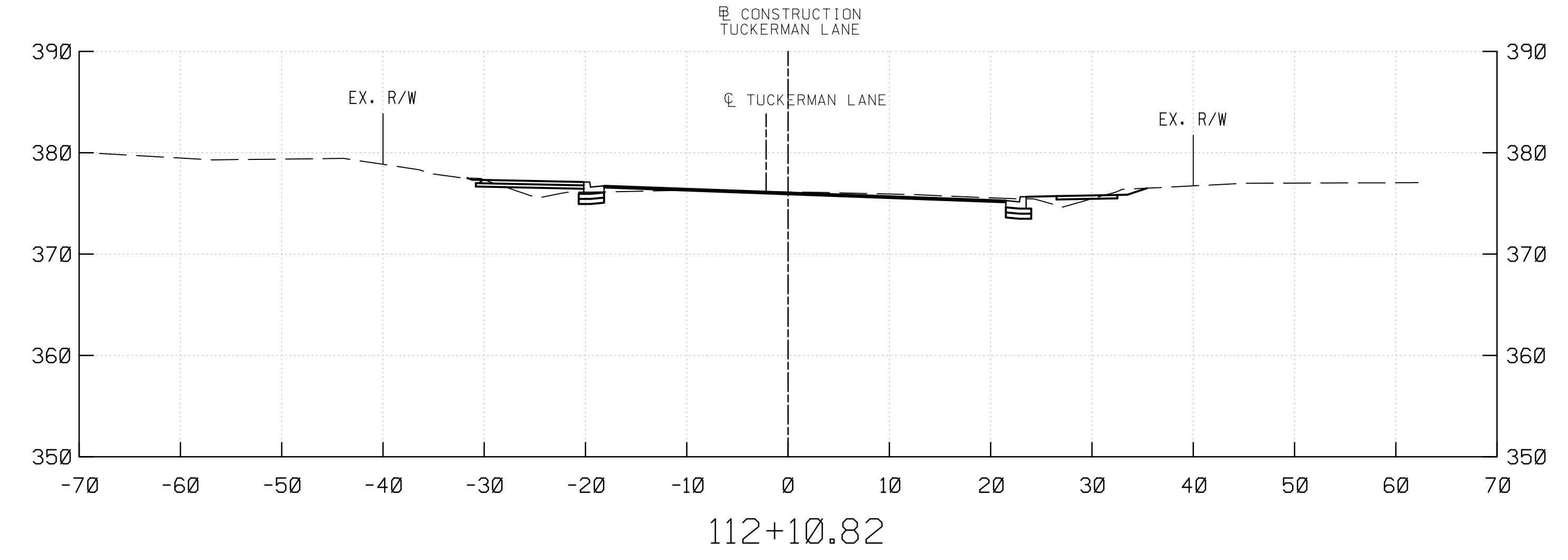
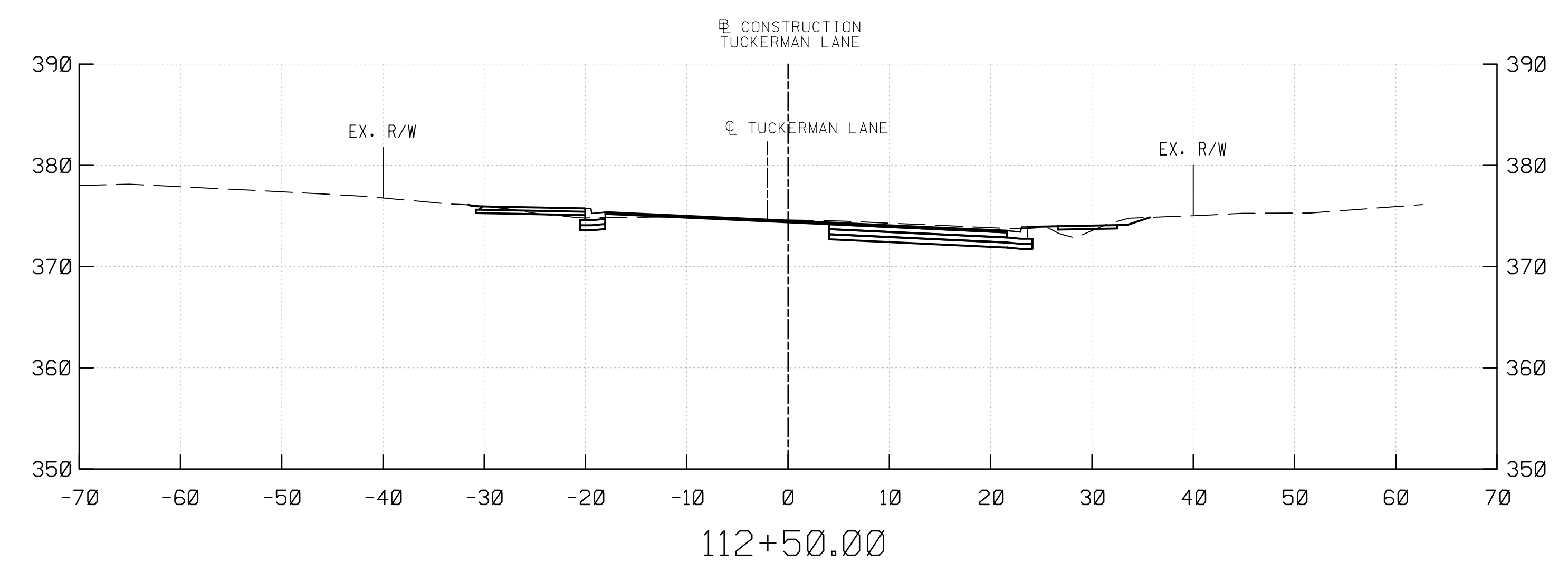
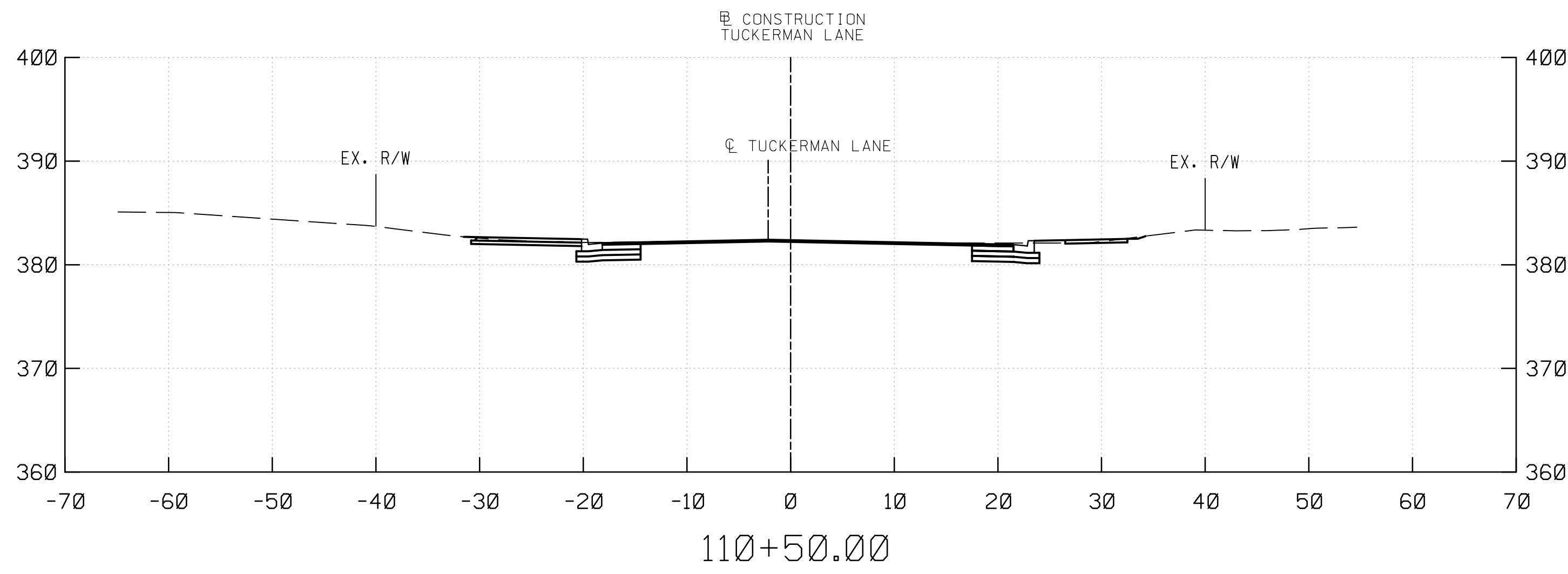
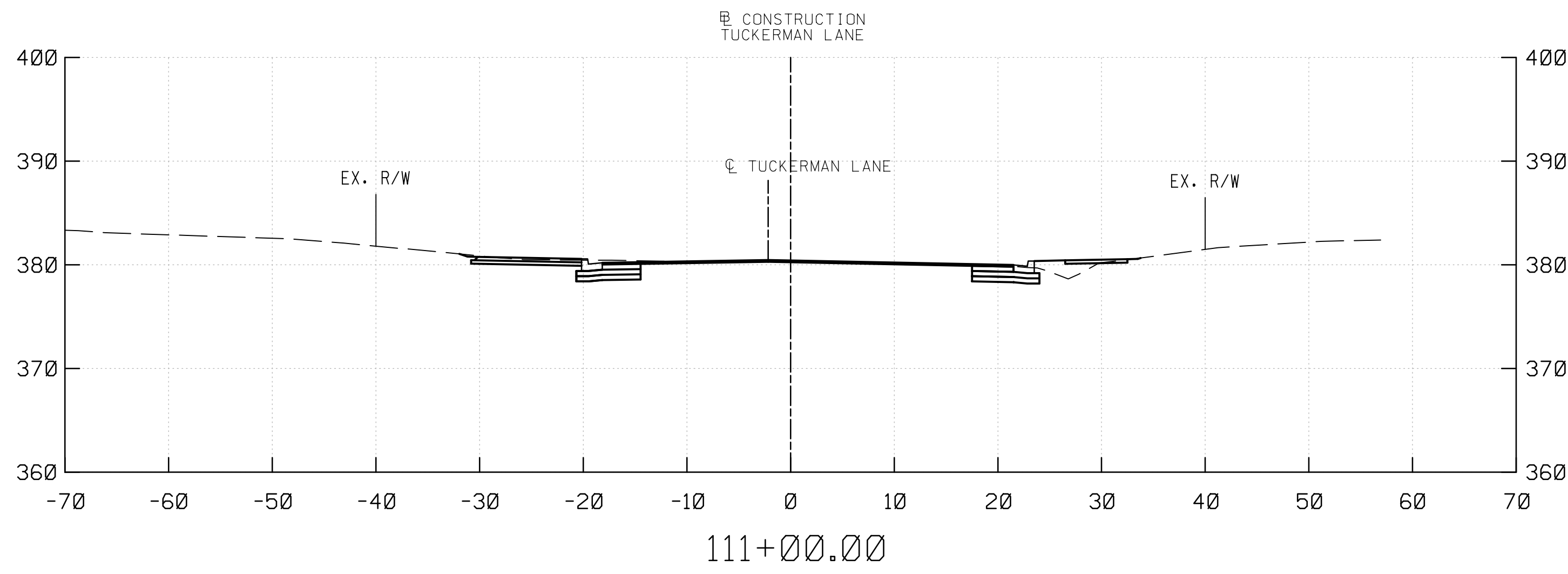
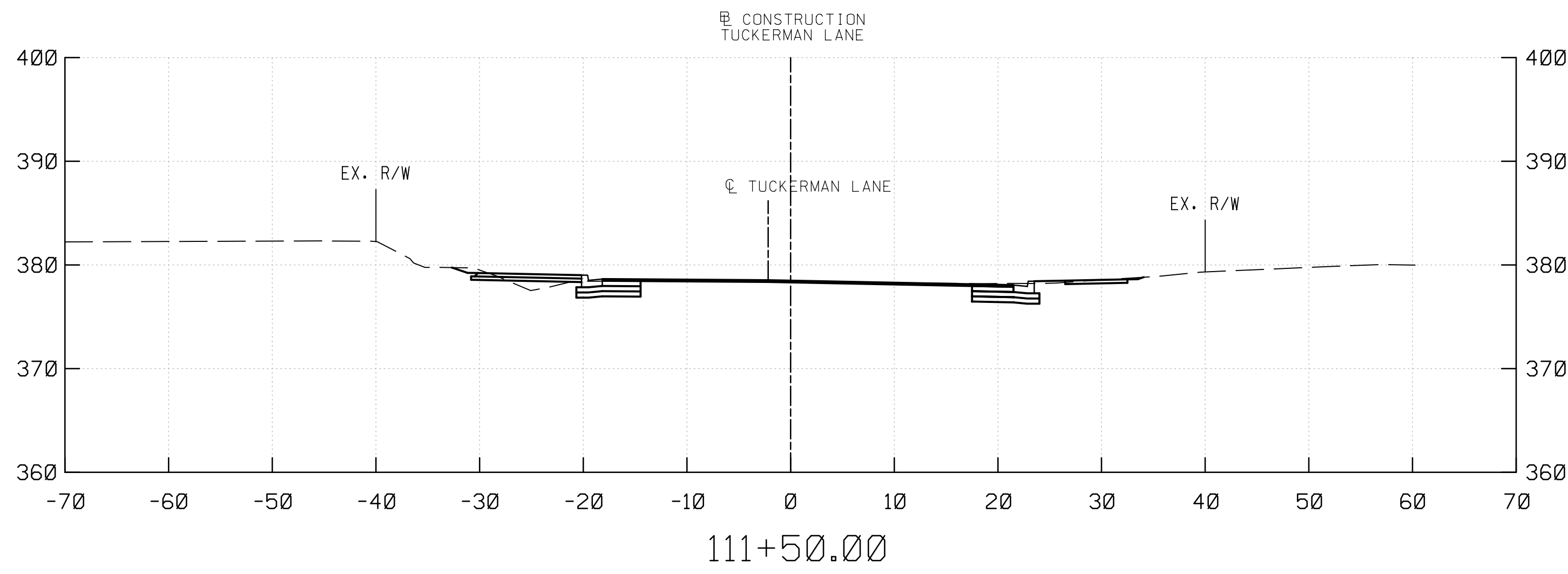
RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

PLAN SHEET CS-03
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 107+50 TO STA. 110+00
 SCALE: 1"= 10'
 Project No.: C.I.P. PR. # 509337 SHEET 138 of 171



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL
 DATE: 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

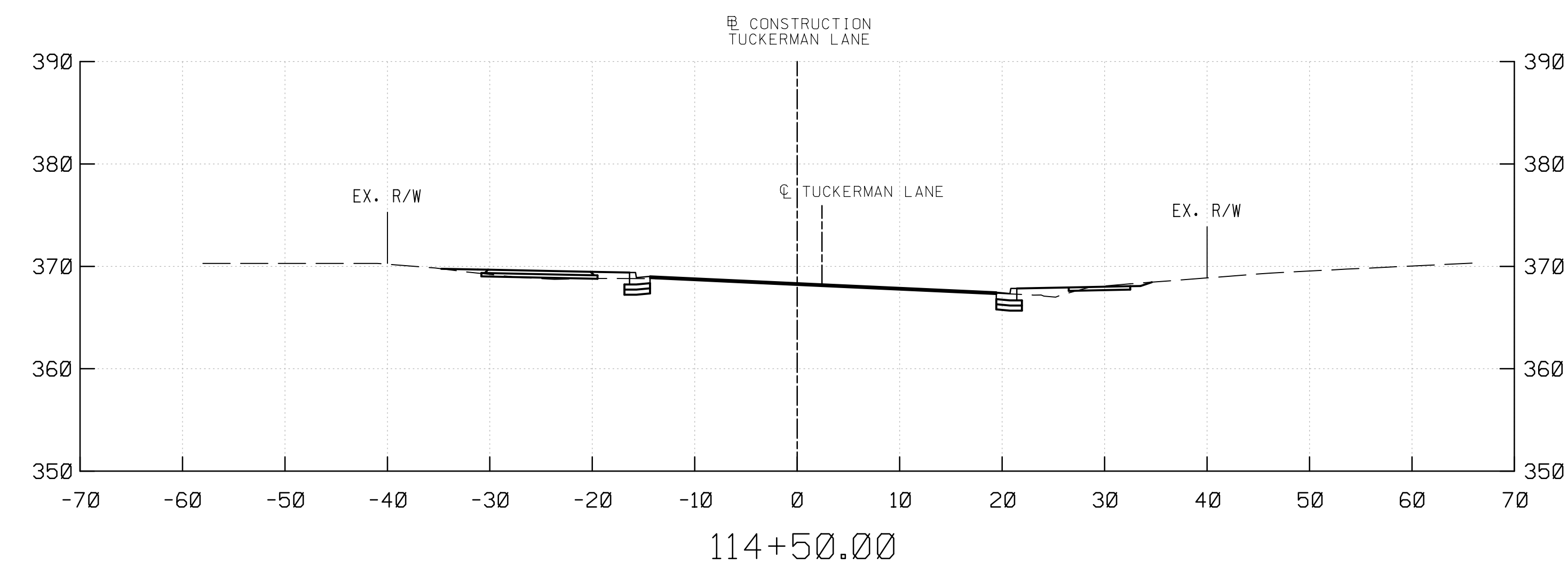
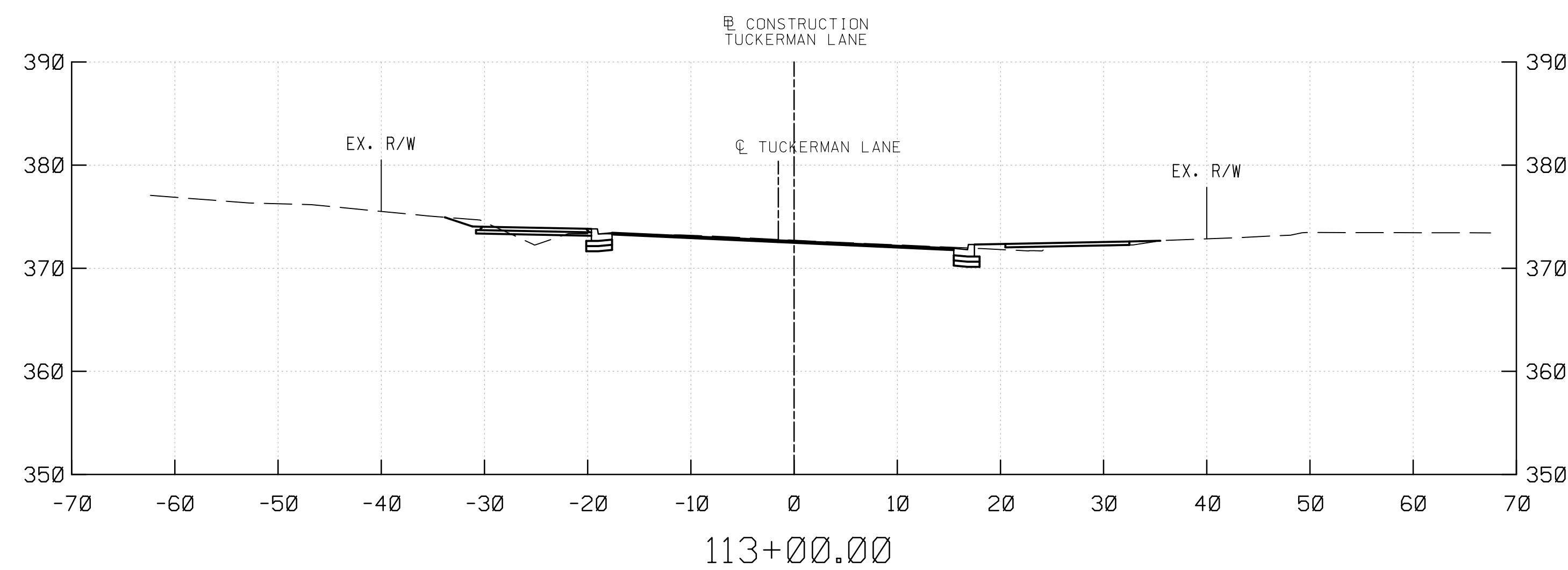
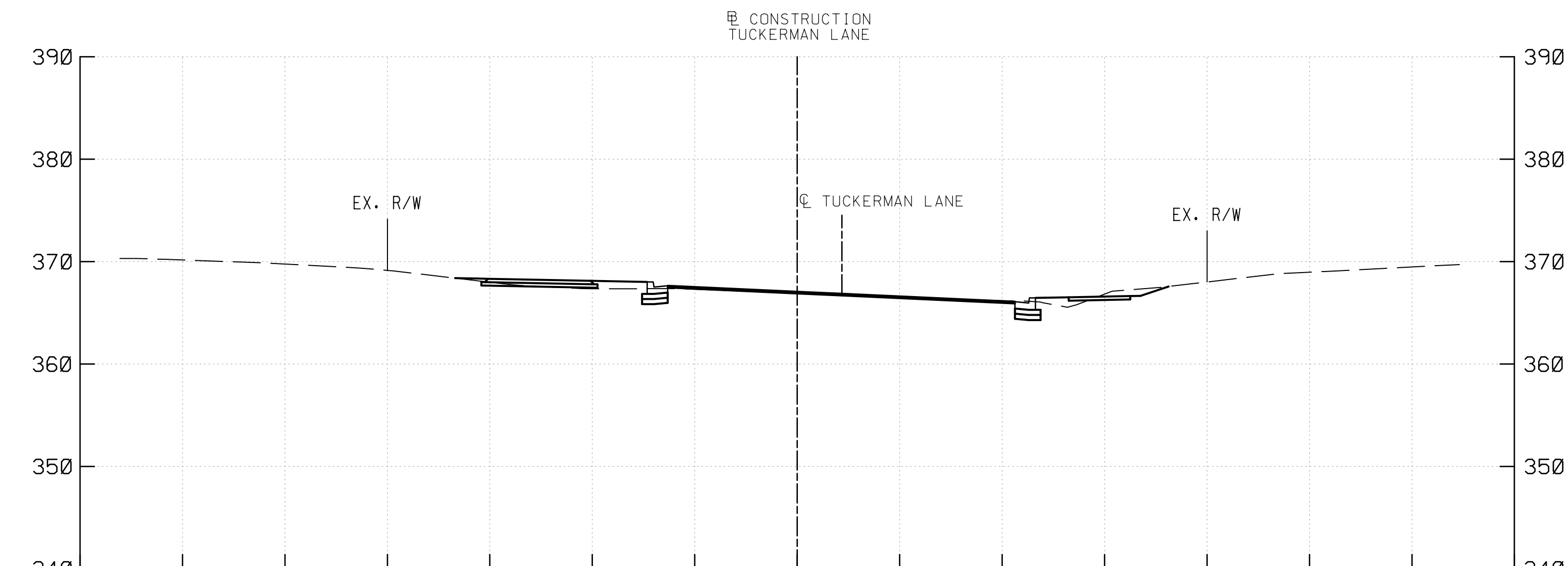
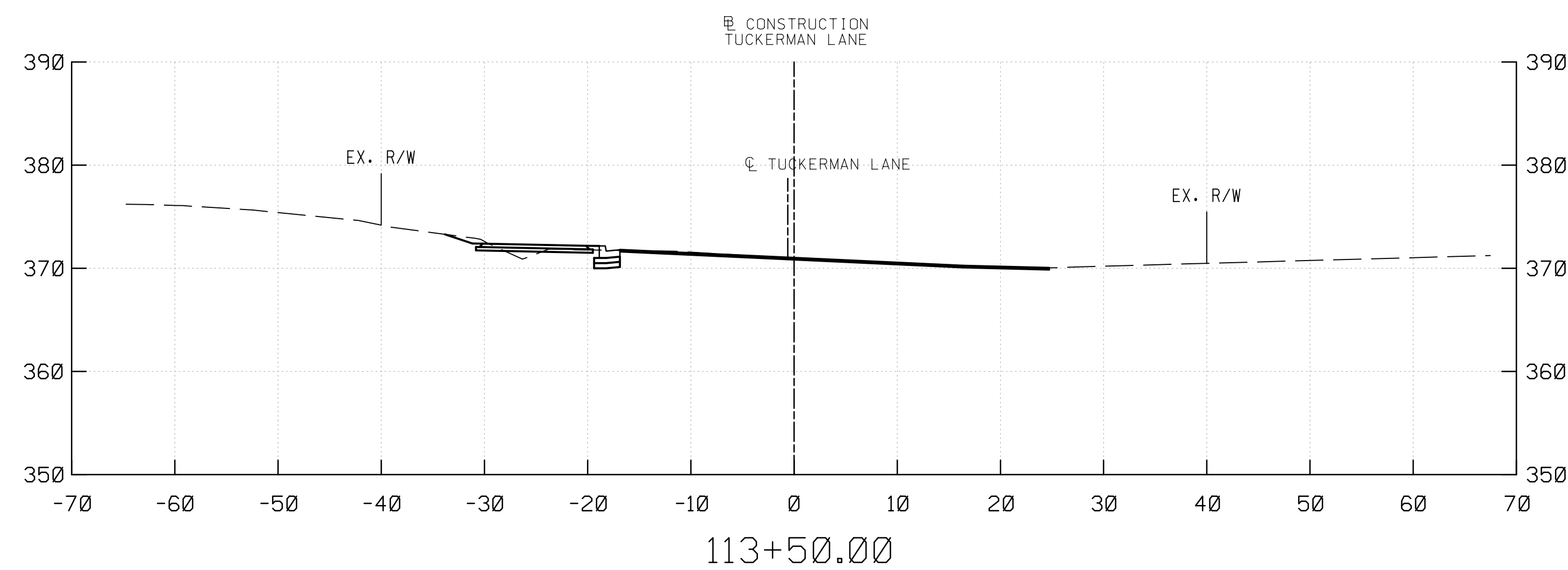
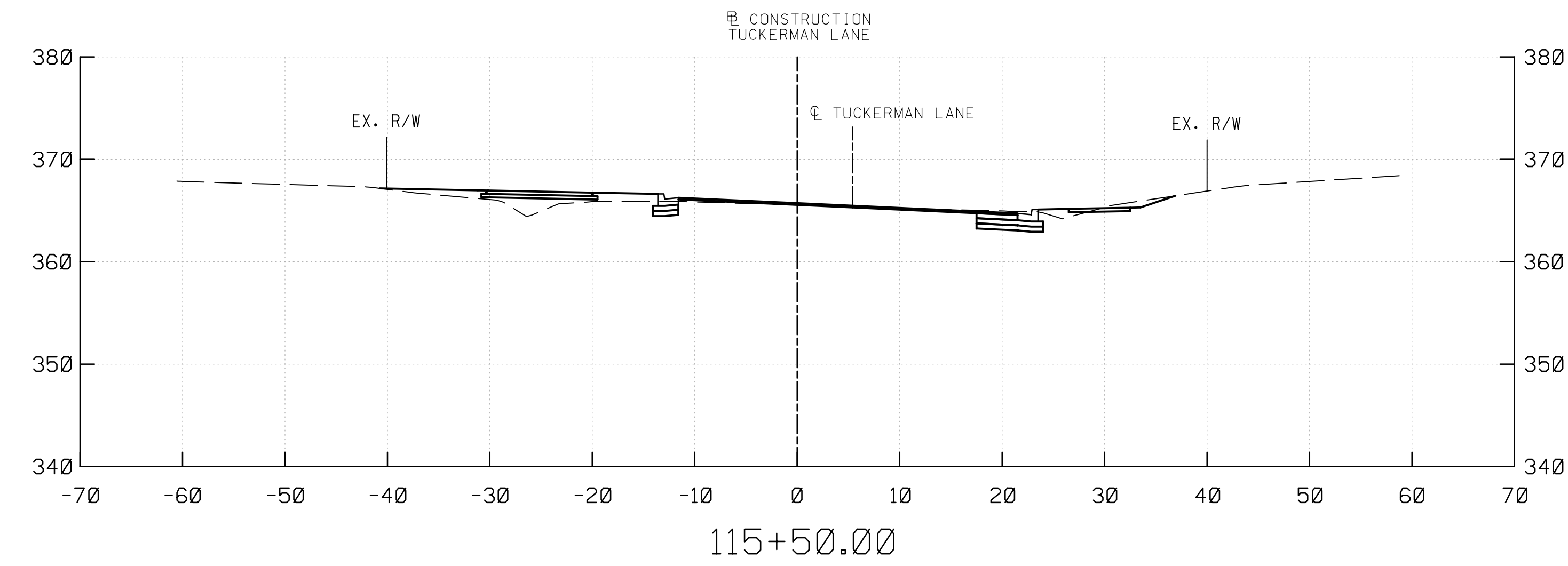
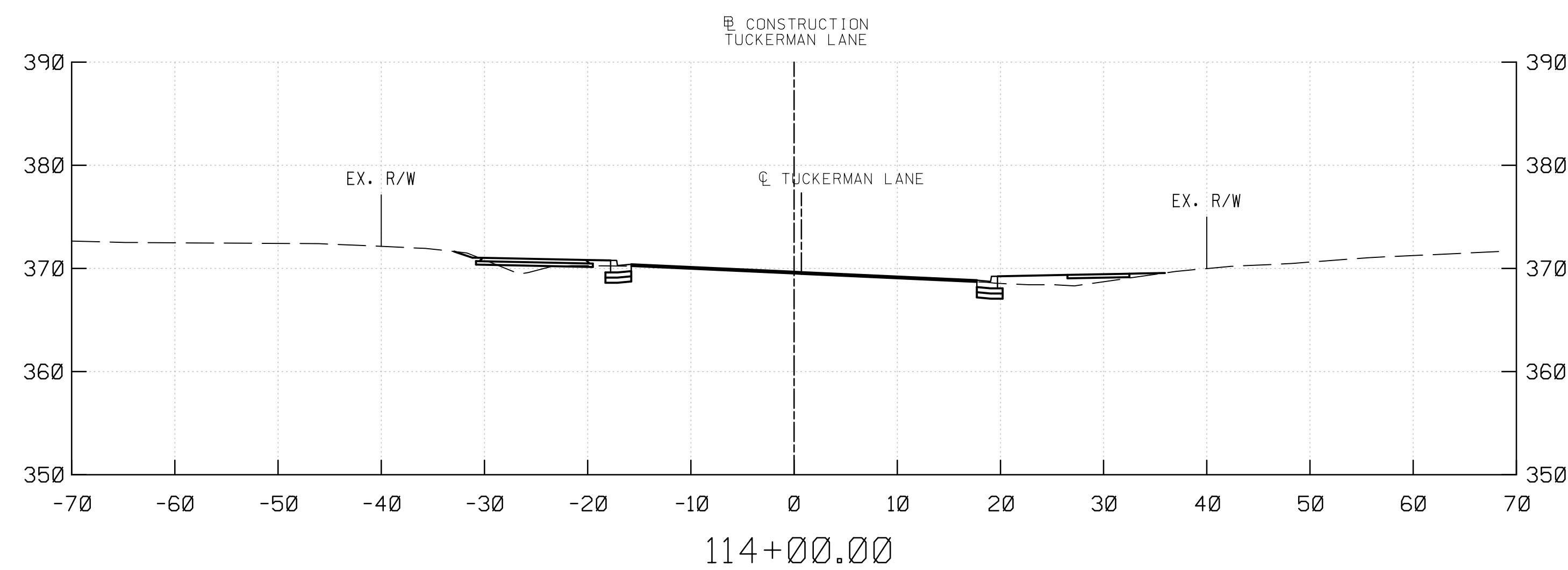
RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

PLAN SHEET CS-04
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 110+50 TO STA. 112+50
 SCALE: 1"= 10'
 Project No.: C.I.P. PR. # 509337 SHEET 139 of 171



WALLACE MONTGOMERY
 ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
 10150 York Road, Suite 200
 Hunt Valley, Maryland 21030
 410.494.9093 | Fax: 410.667.0925
 www.WallaceMontgomery.com

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 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL
 DATE: 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

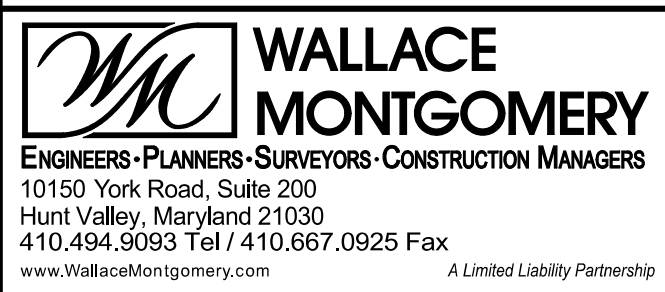
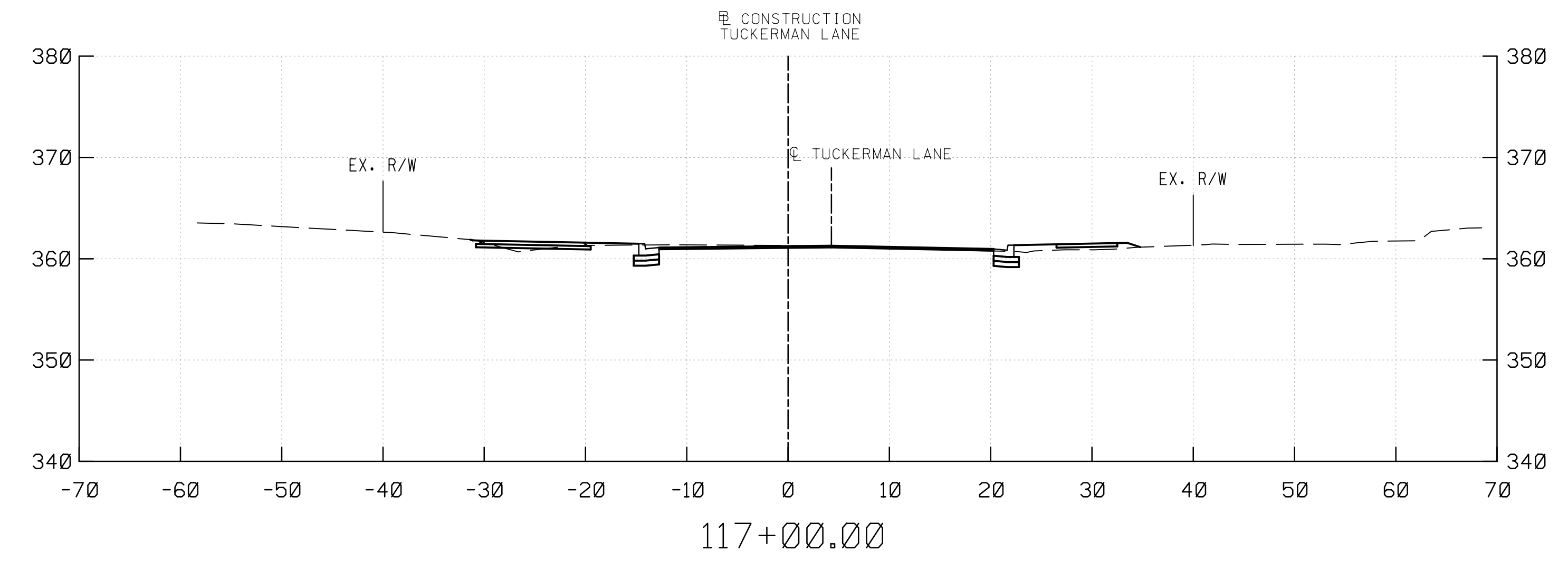
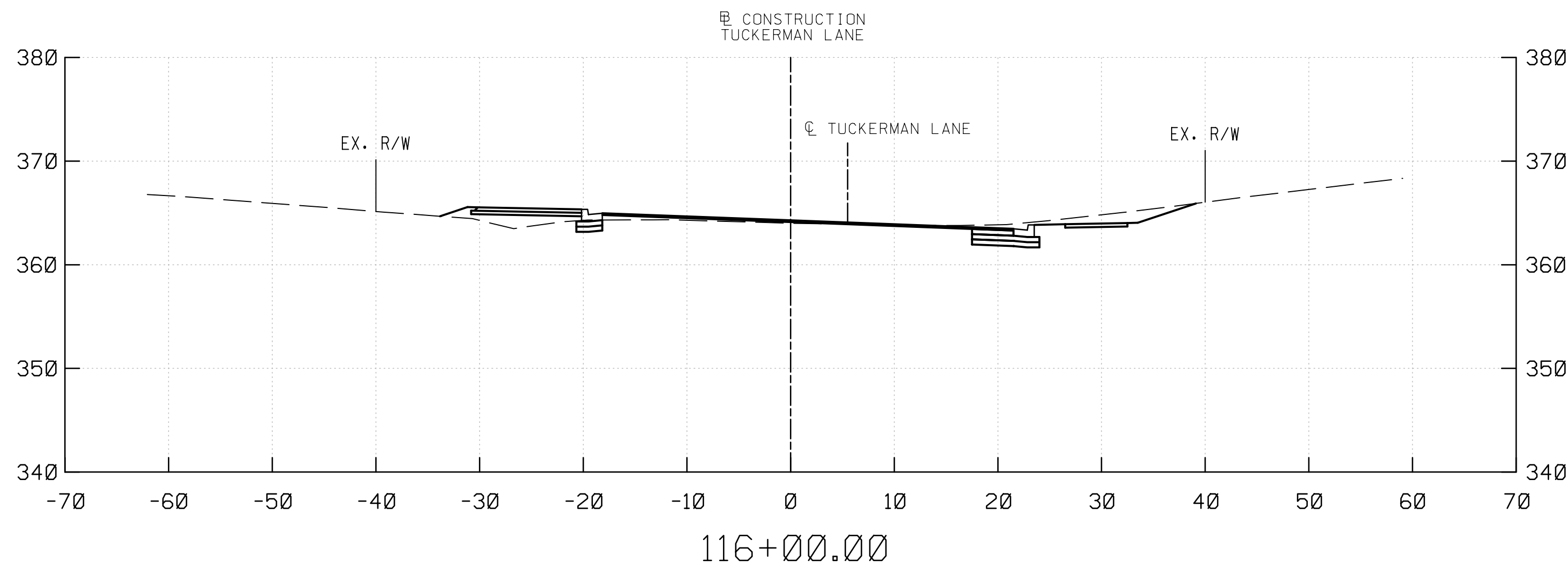
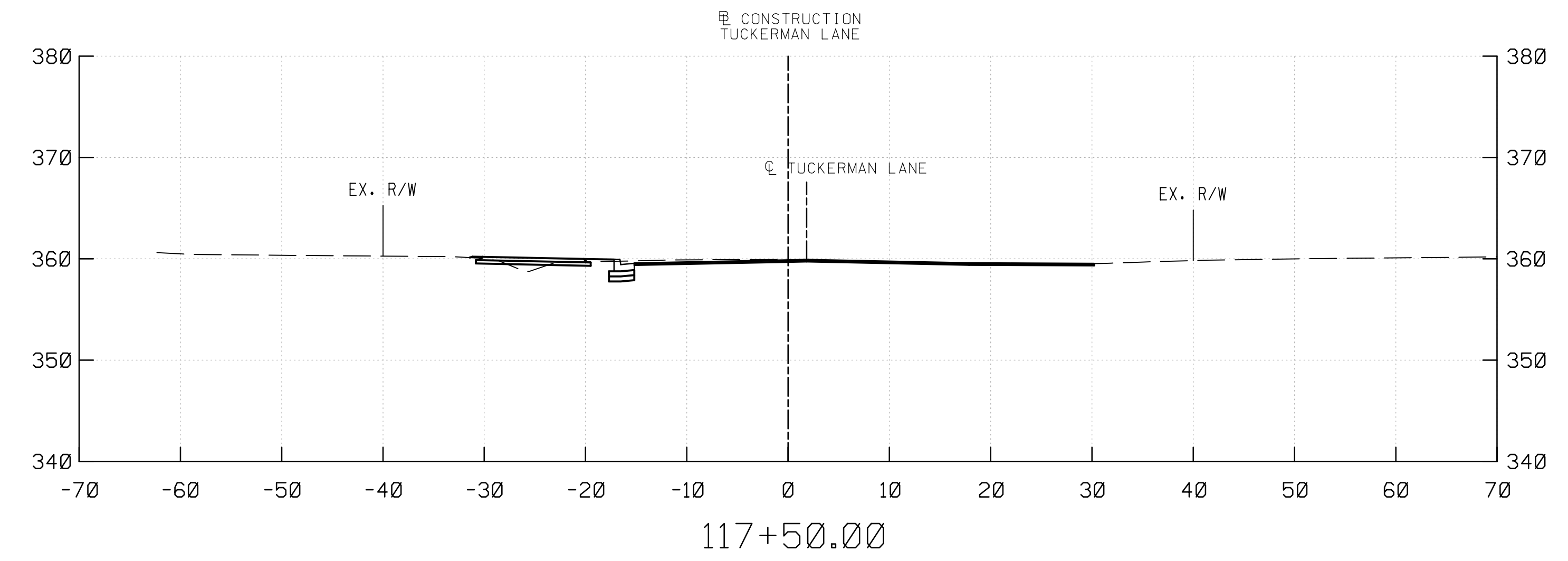
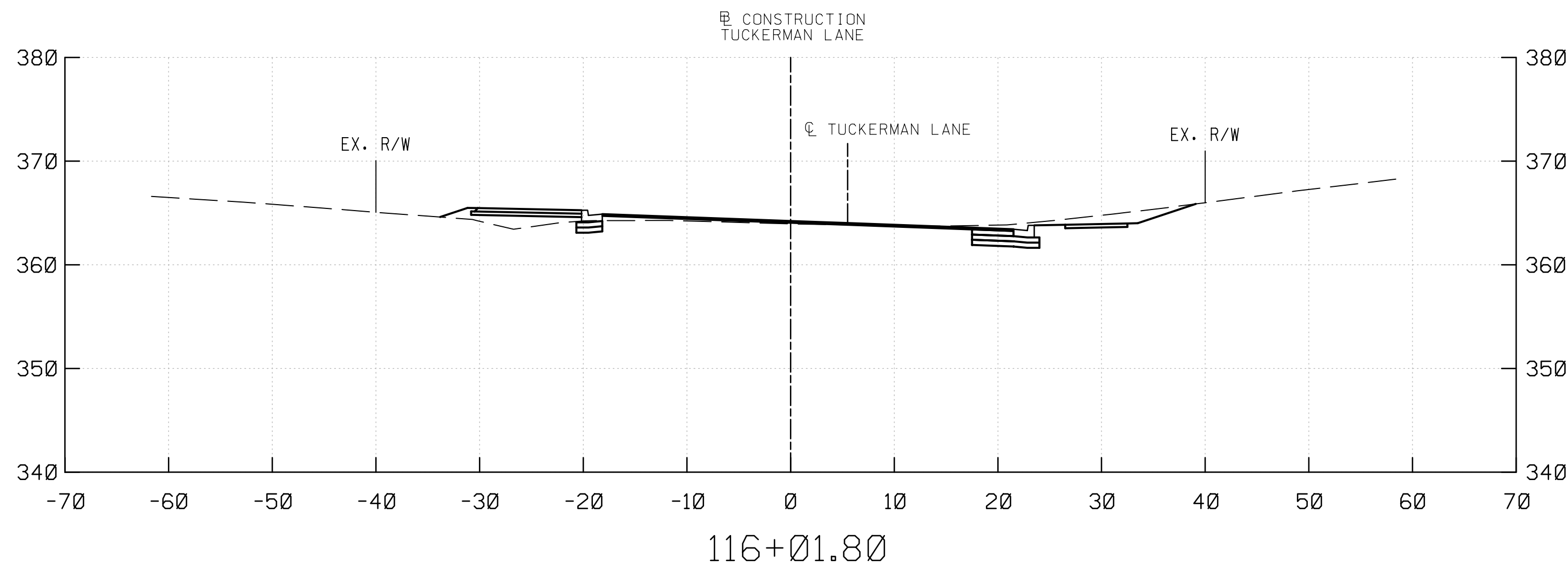
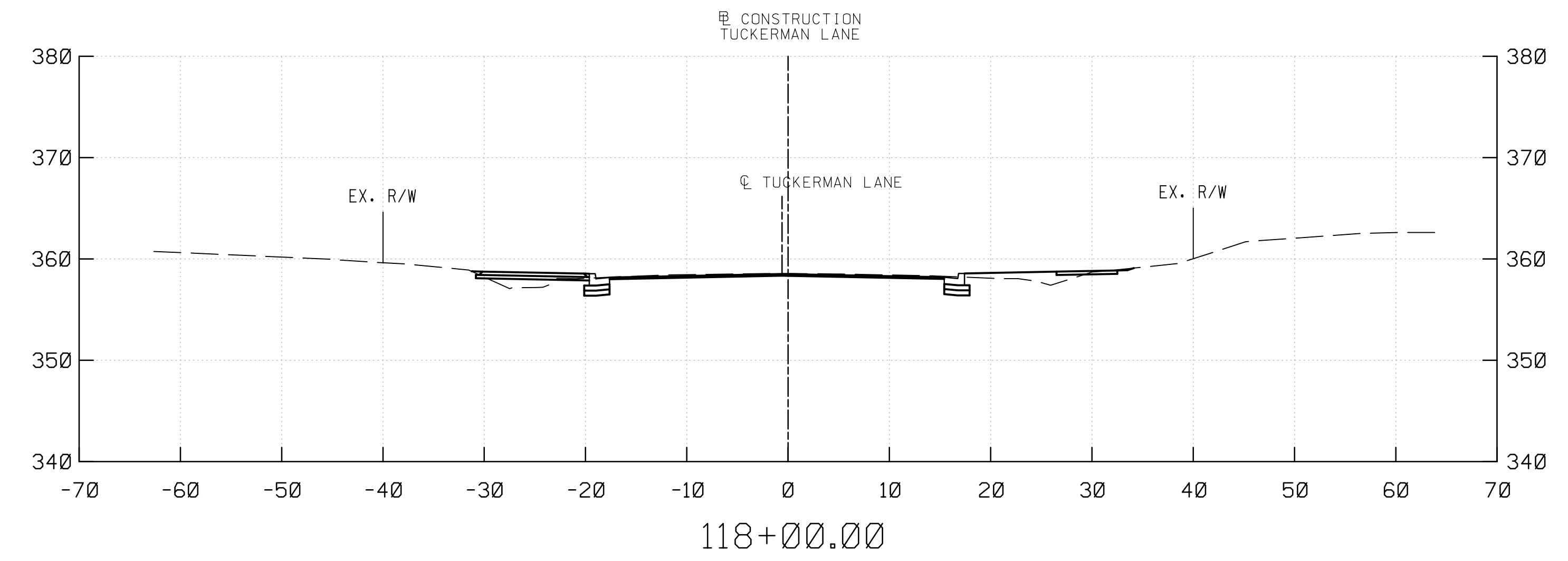
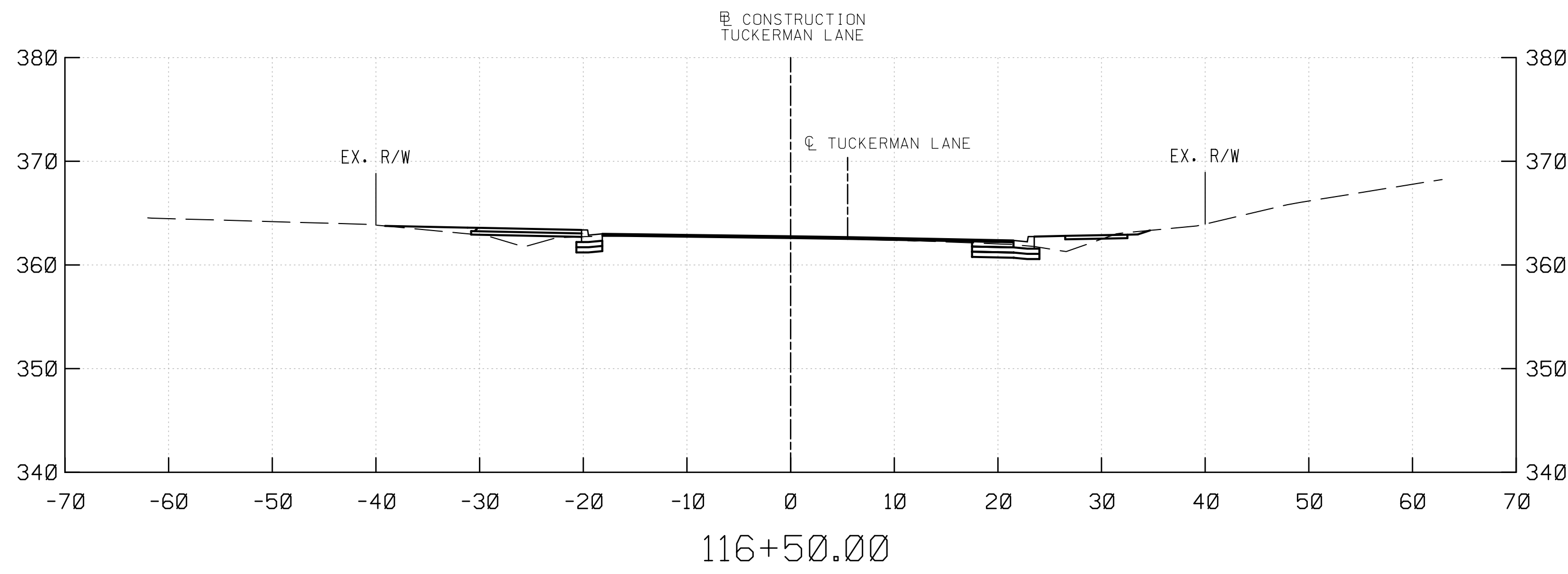
RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

PLAN SHEET CS-05
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 113+00 TO STA. 115+50
 SCALE: 1"= 10'
 Project No.: C.I.P. PR. # 509337 SHEET 140 of 171



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL
 DATE : 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

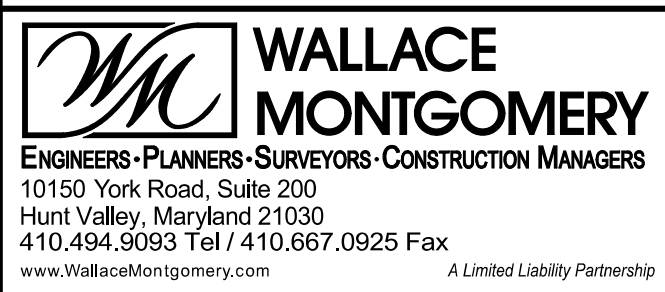
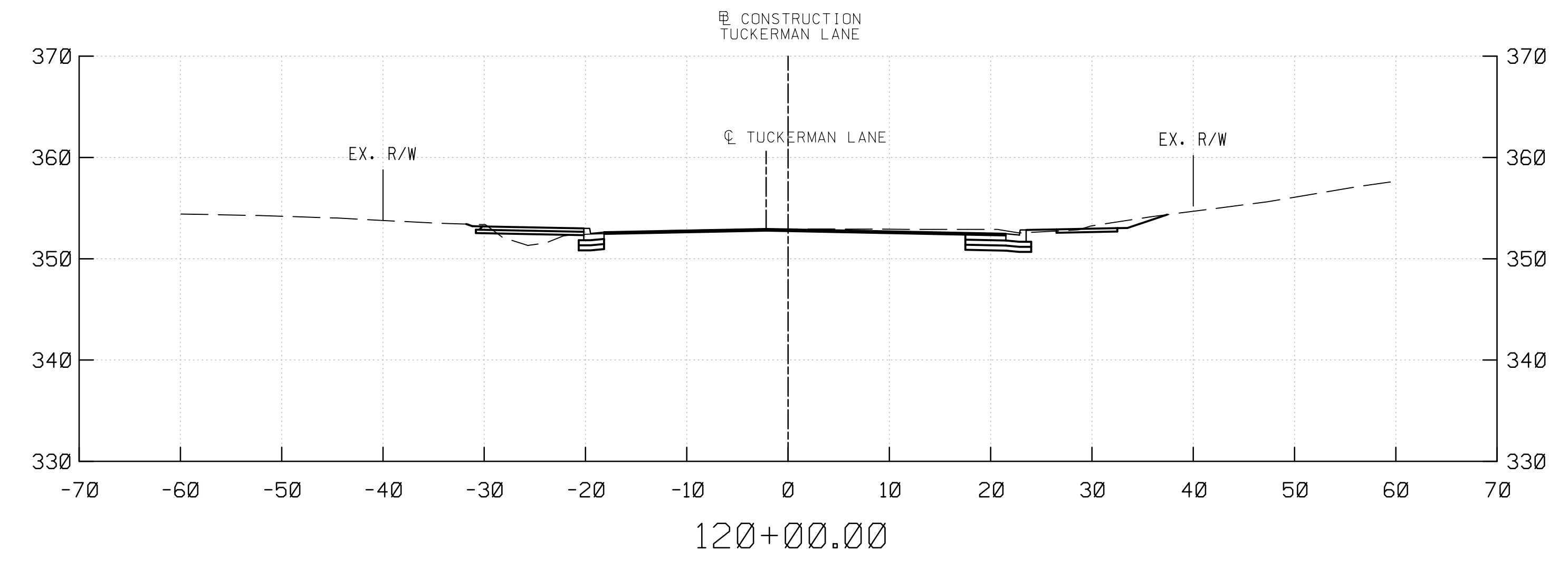
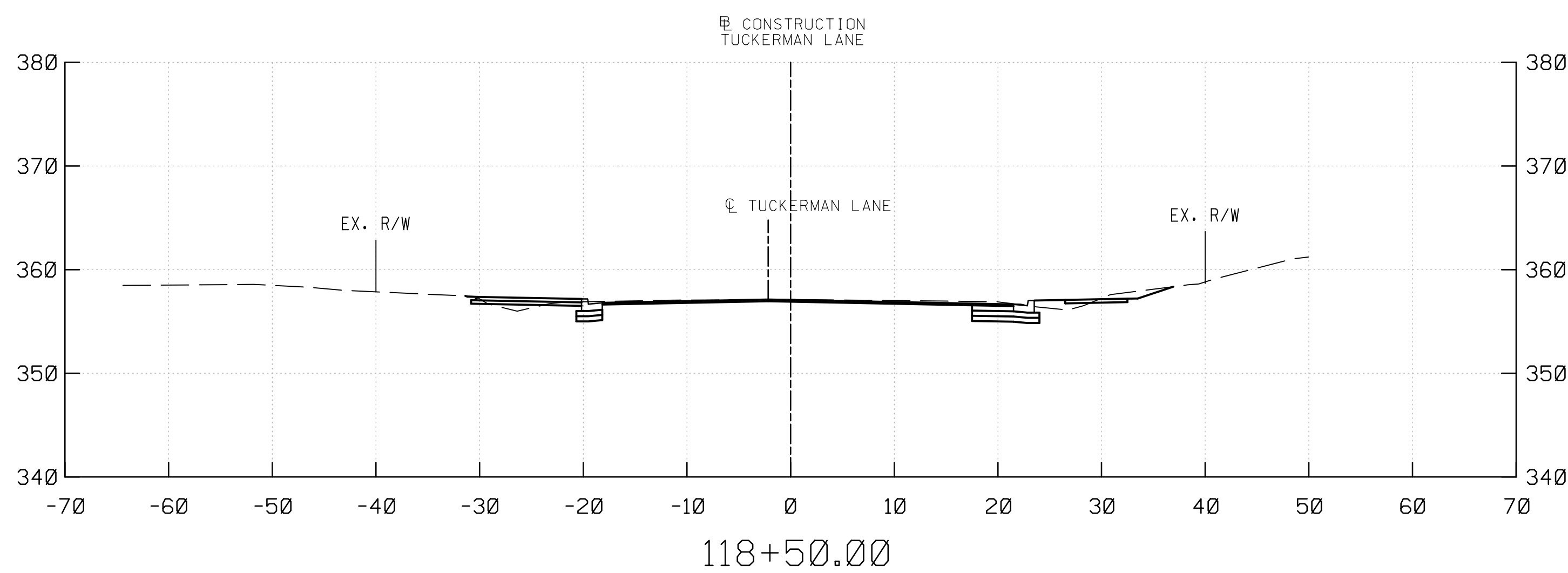
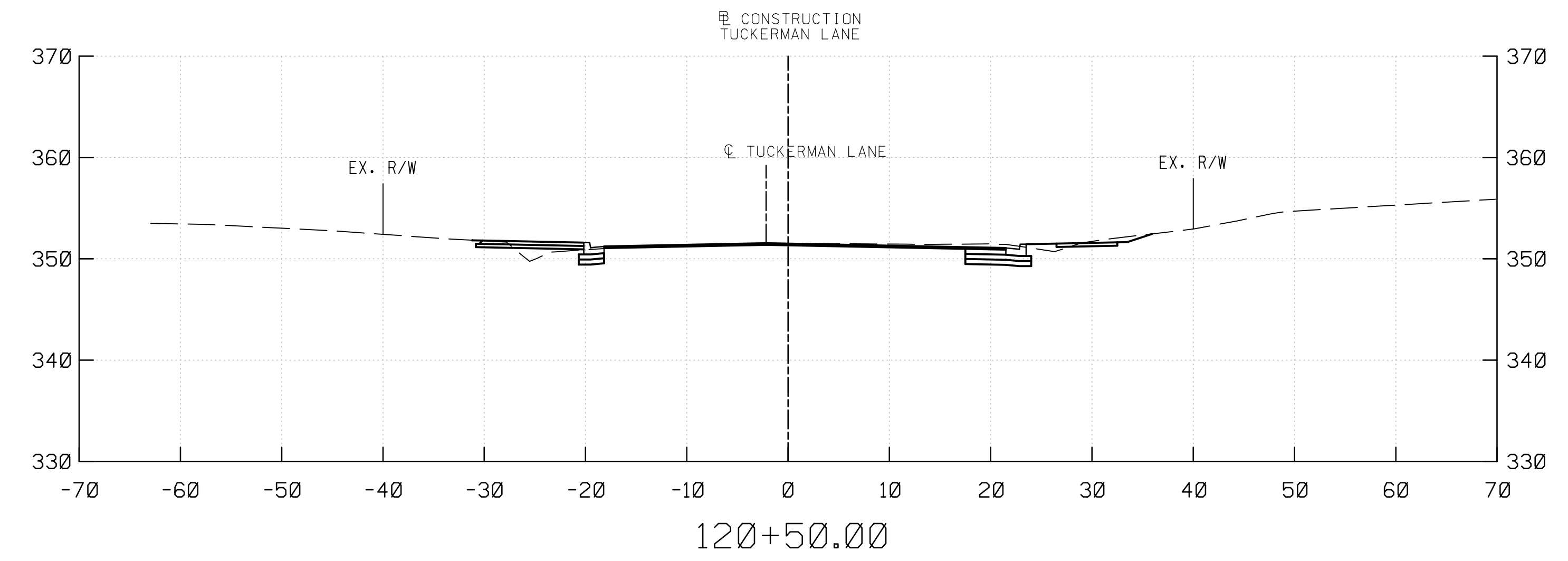
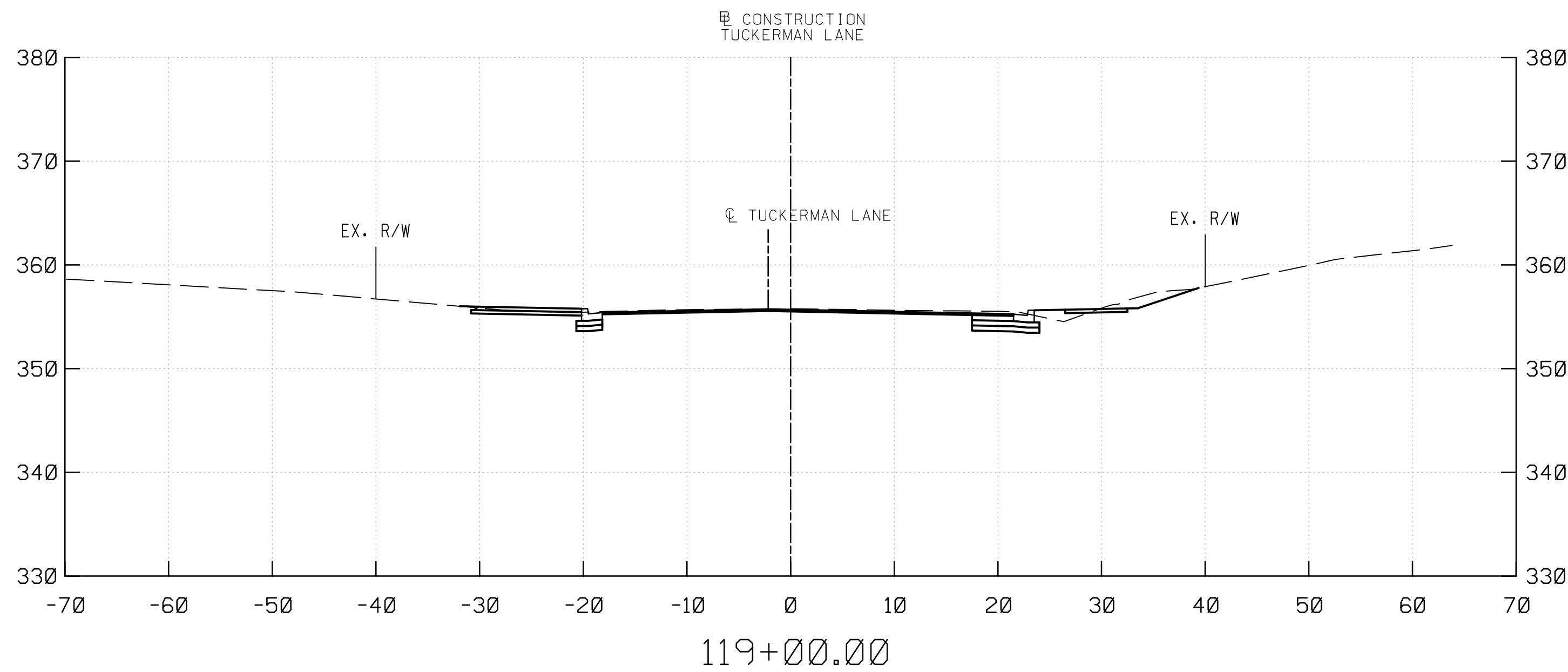
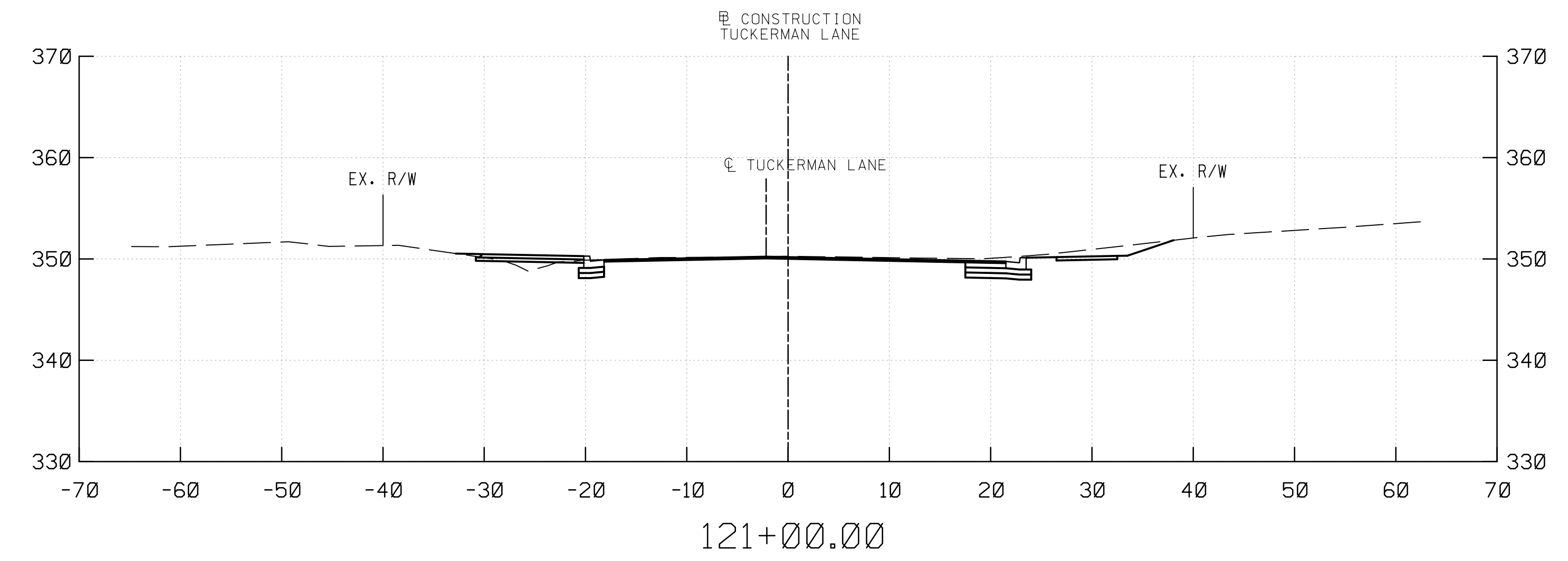
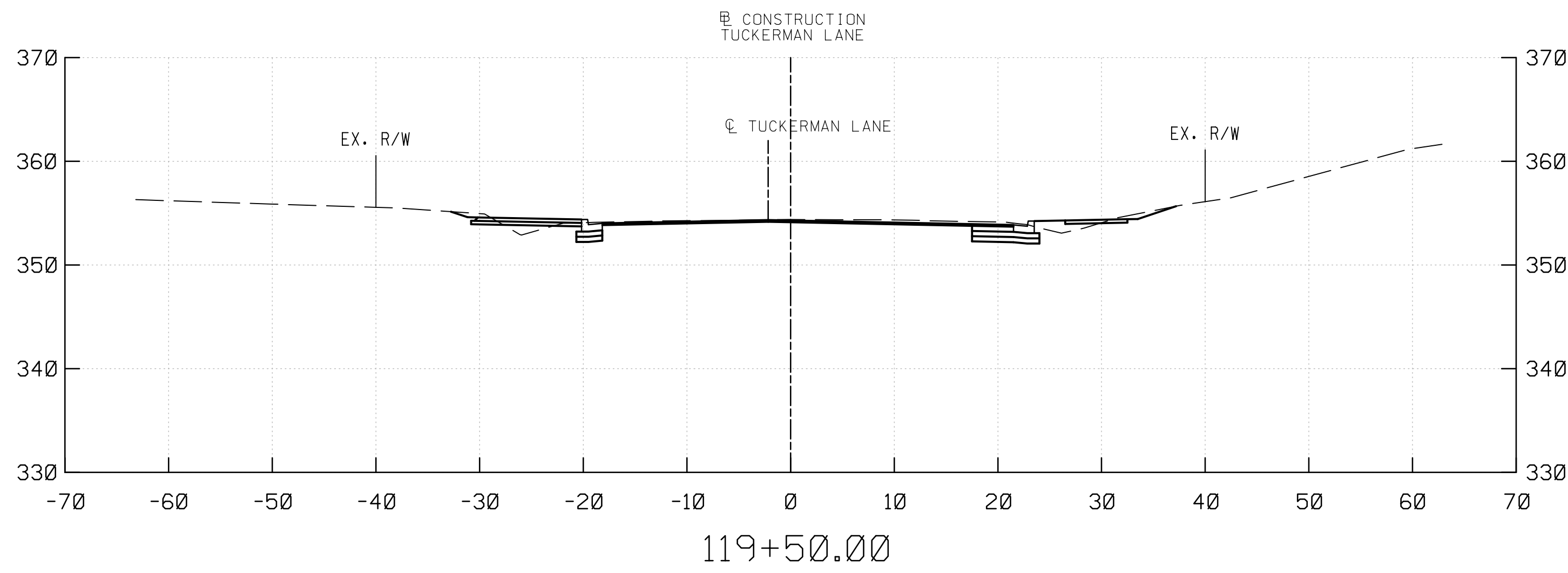
RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by : _____ Drawn by : _____ Checked by : _____

PLAN SHEET CS-06
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 116+00 TO STA. 118+00
 SCALE : 1"= 10'
 Project No. : C.I.P. PR. # 509337 SHEET 141 of 171



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD NO-31487 EXP-03/18/2023

SEAL
 DATE : 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

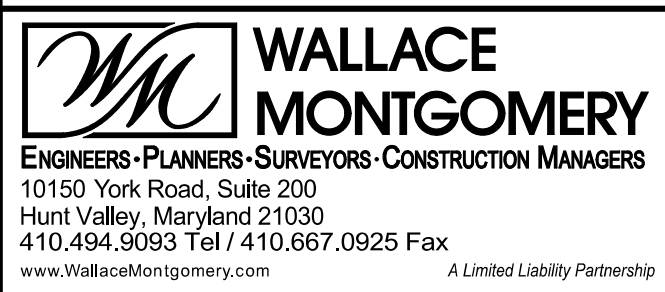
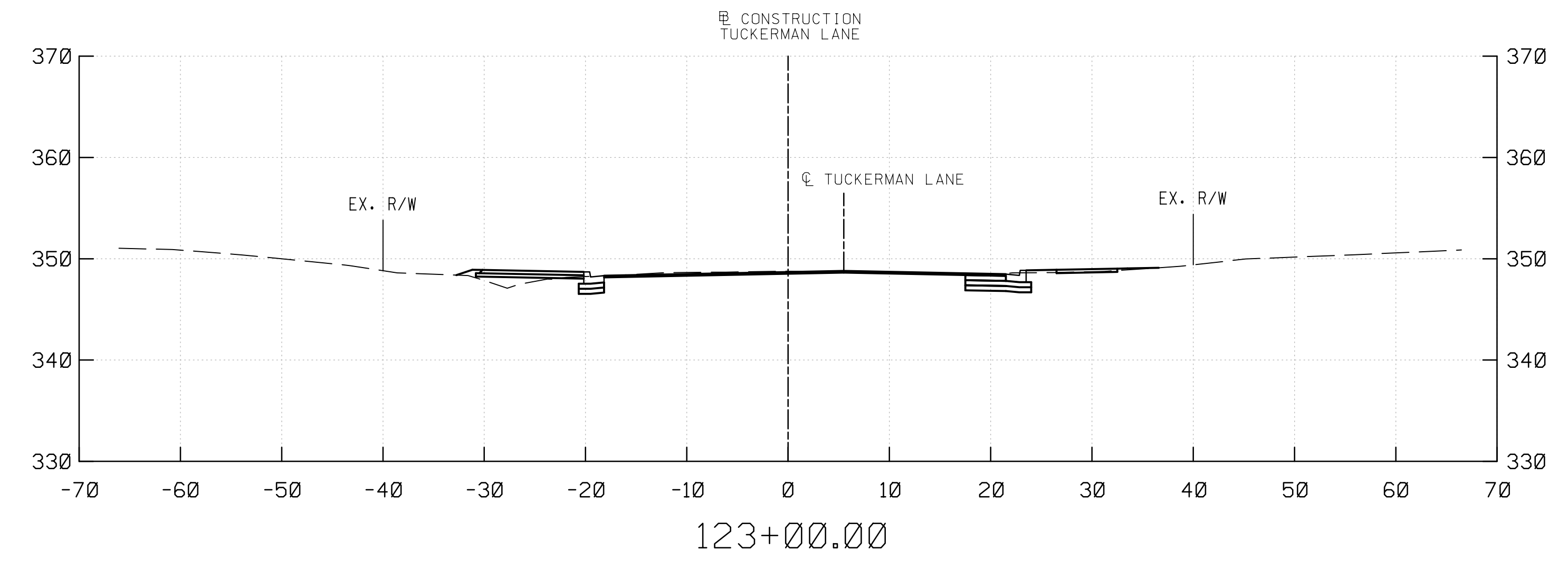
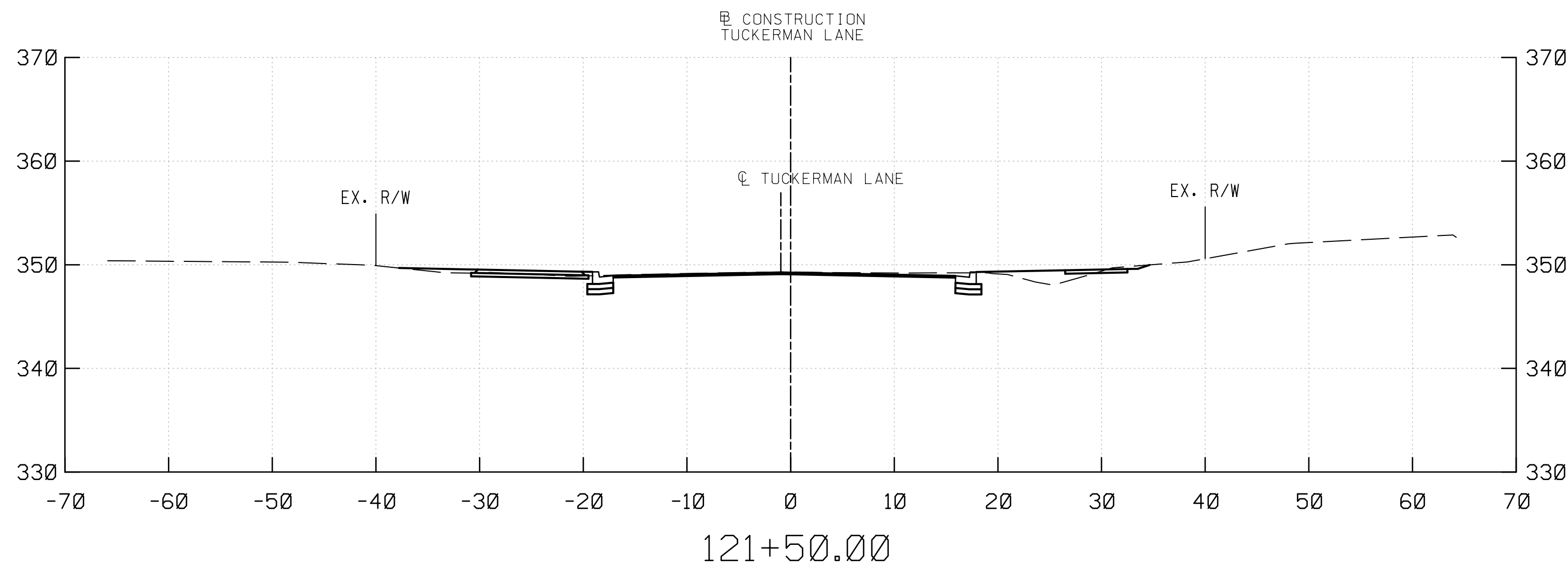
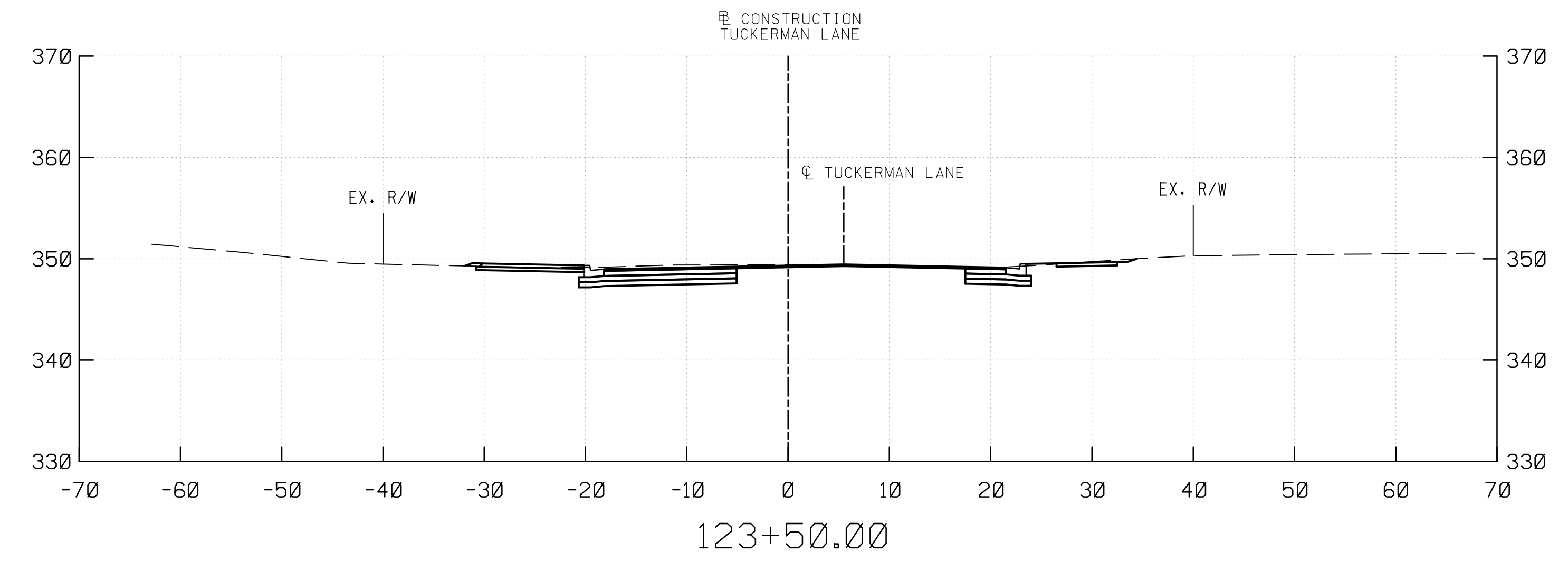
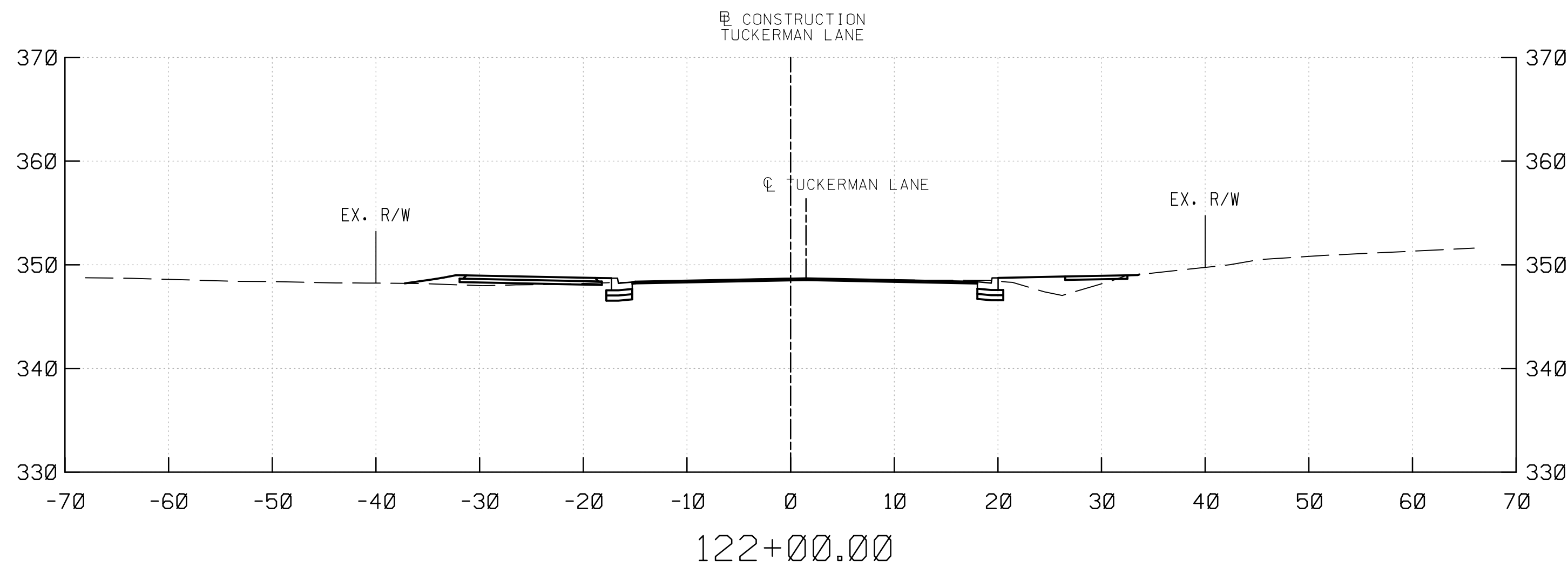
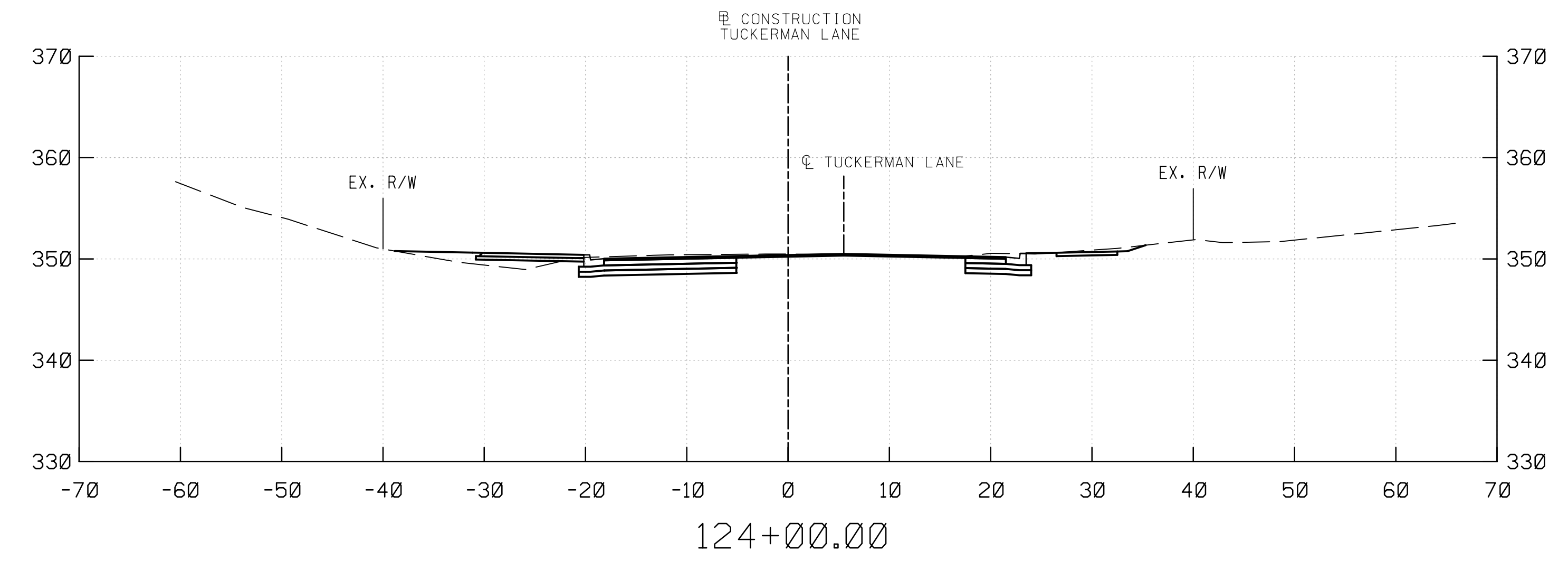
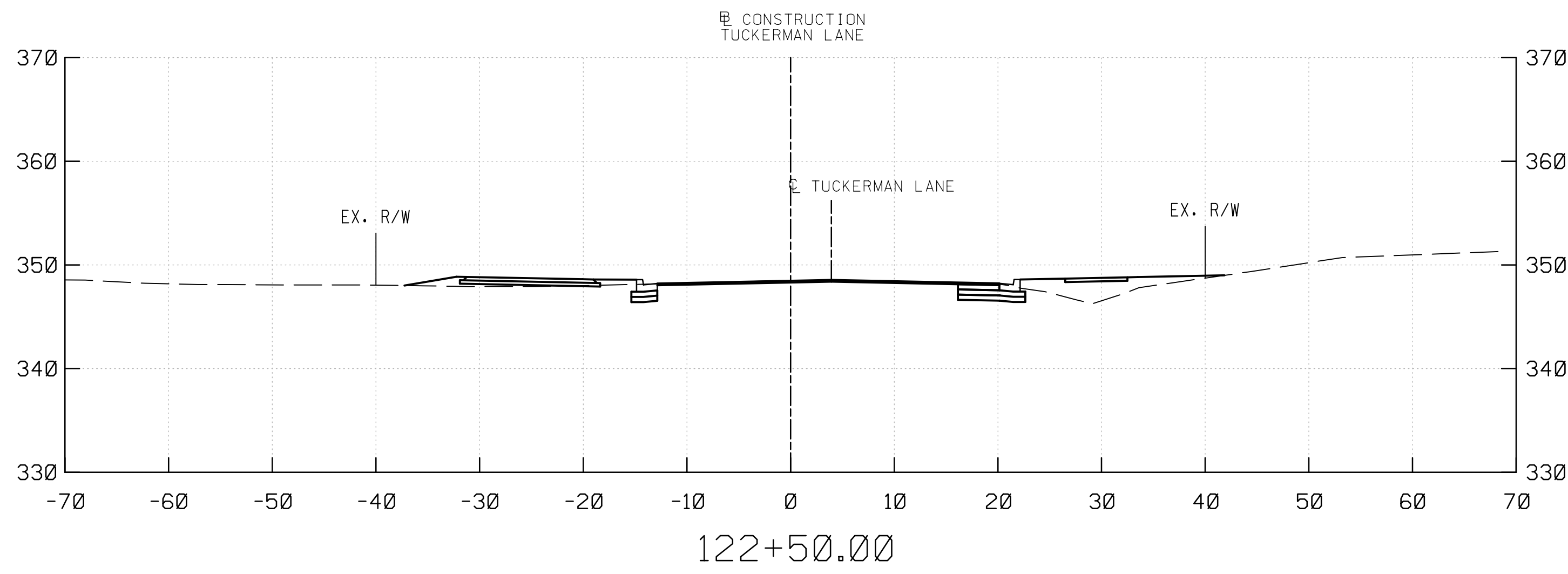
RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by : _____ Drawn by : _____ Checked by : _____

PLAN SHEET CS-07
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 118+50 TO STA. 121+00
 SCALE : 1" = 10'
 Project No. : C.I.P. PR. # 509337 SHEET 142 of 171



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL
 DATE: 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

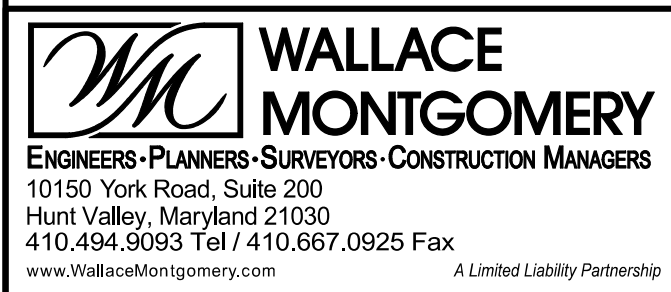
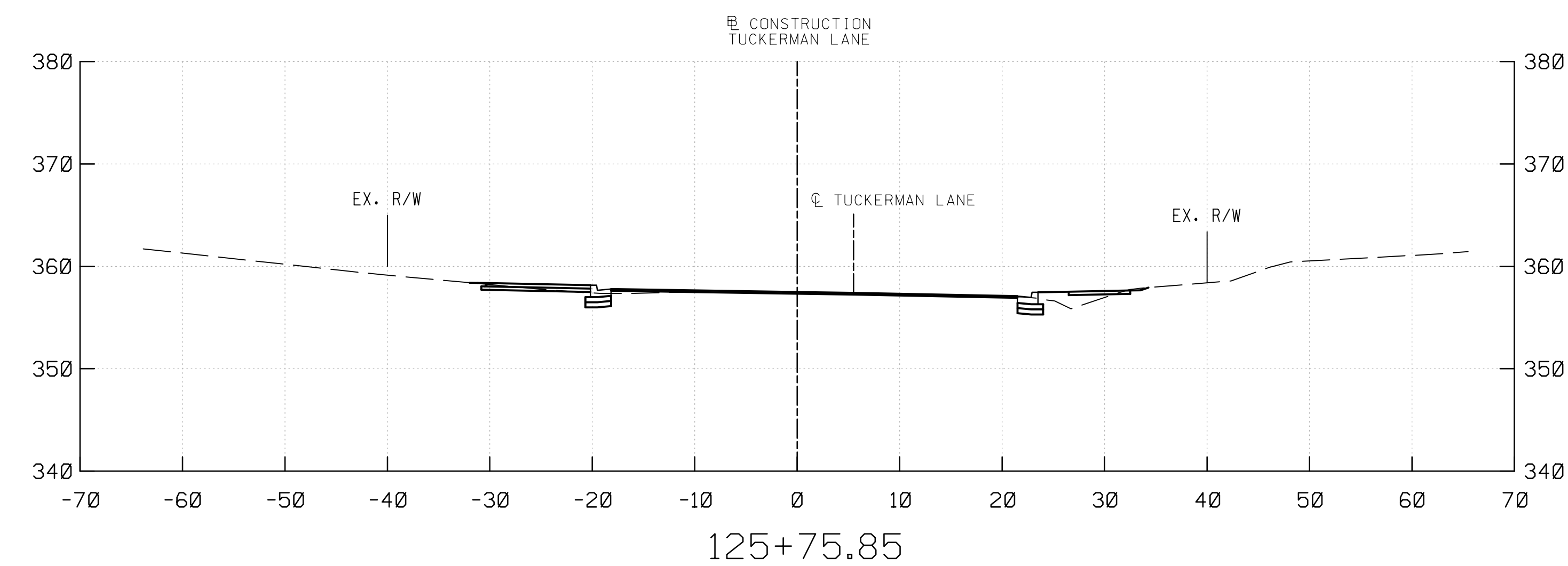
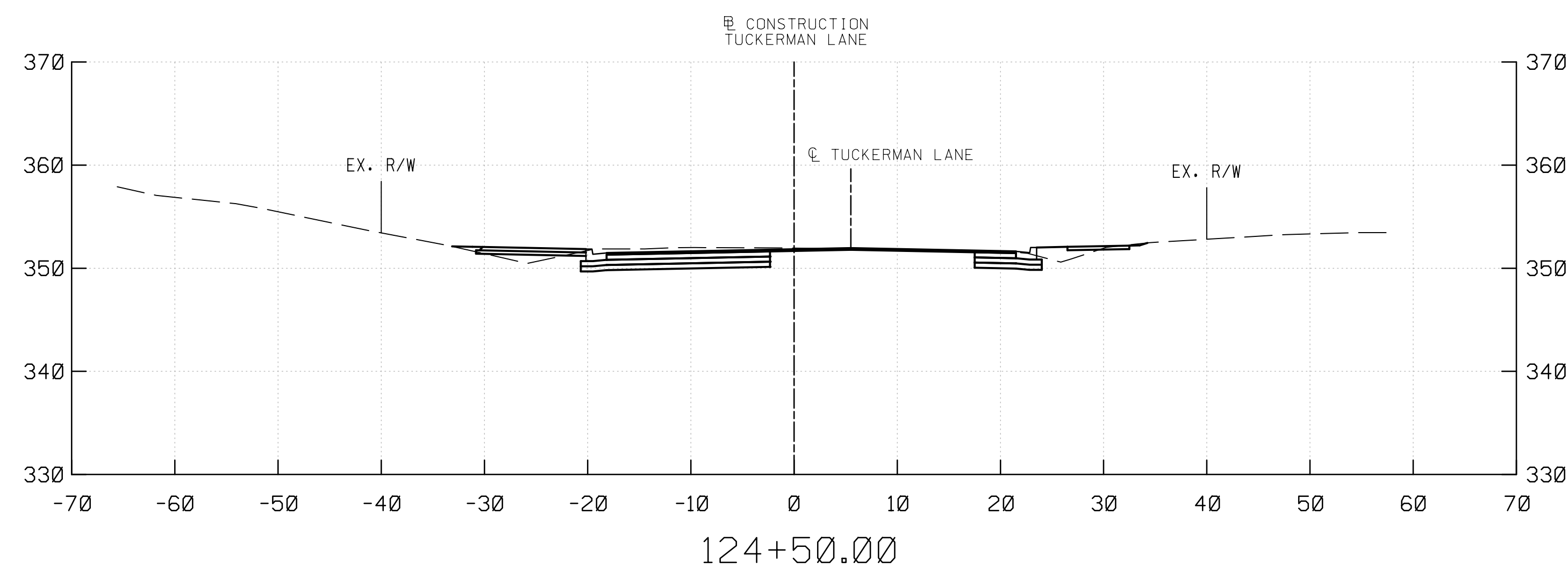
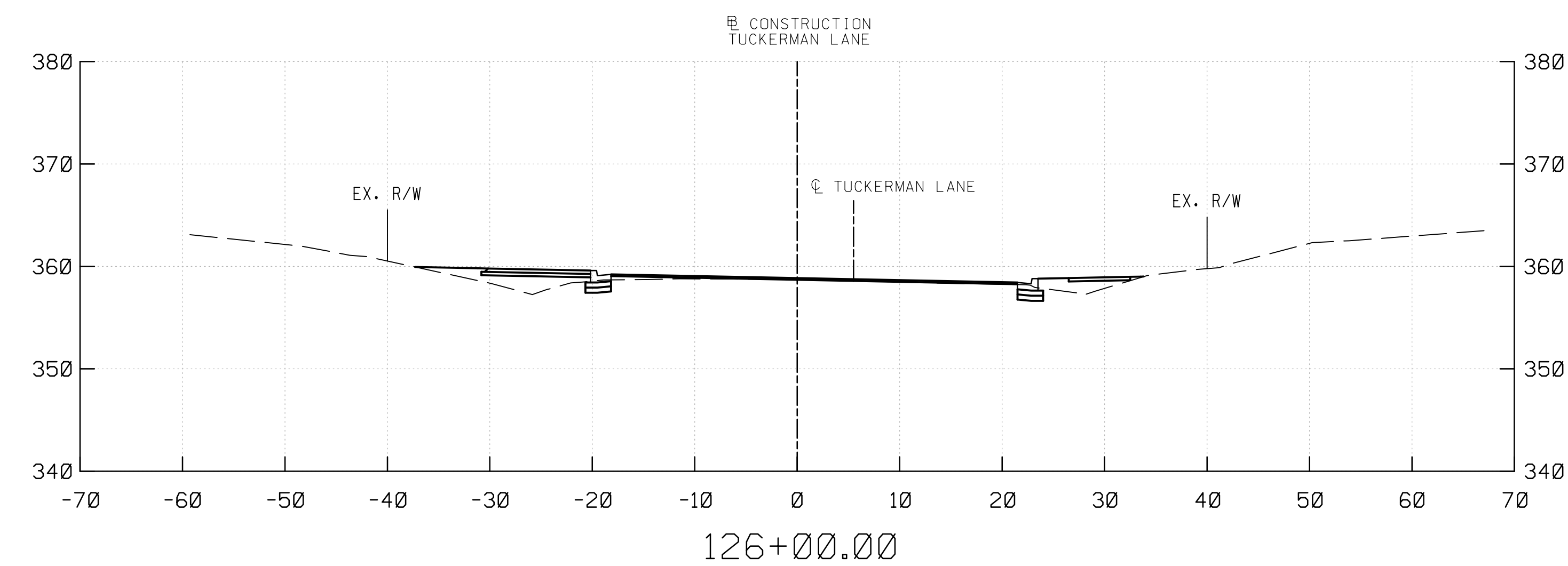
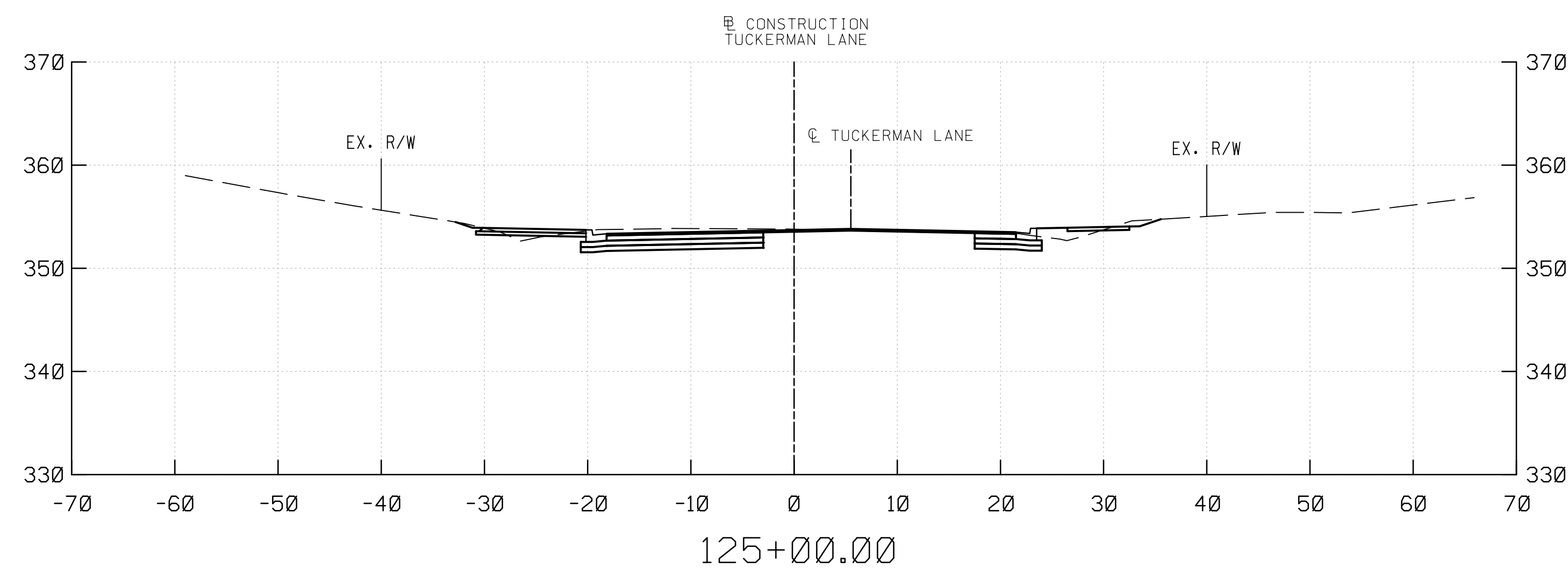
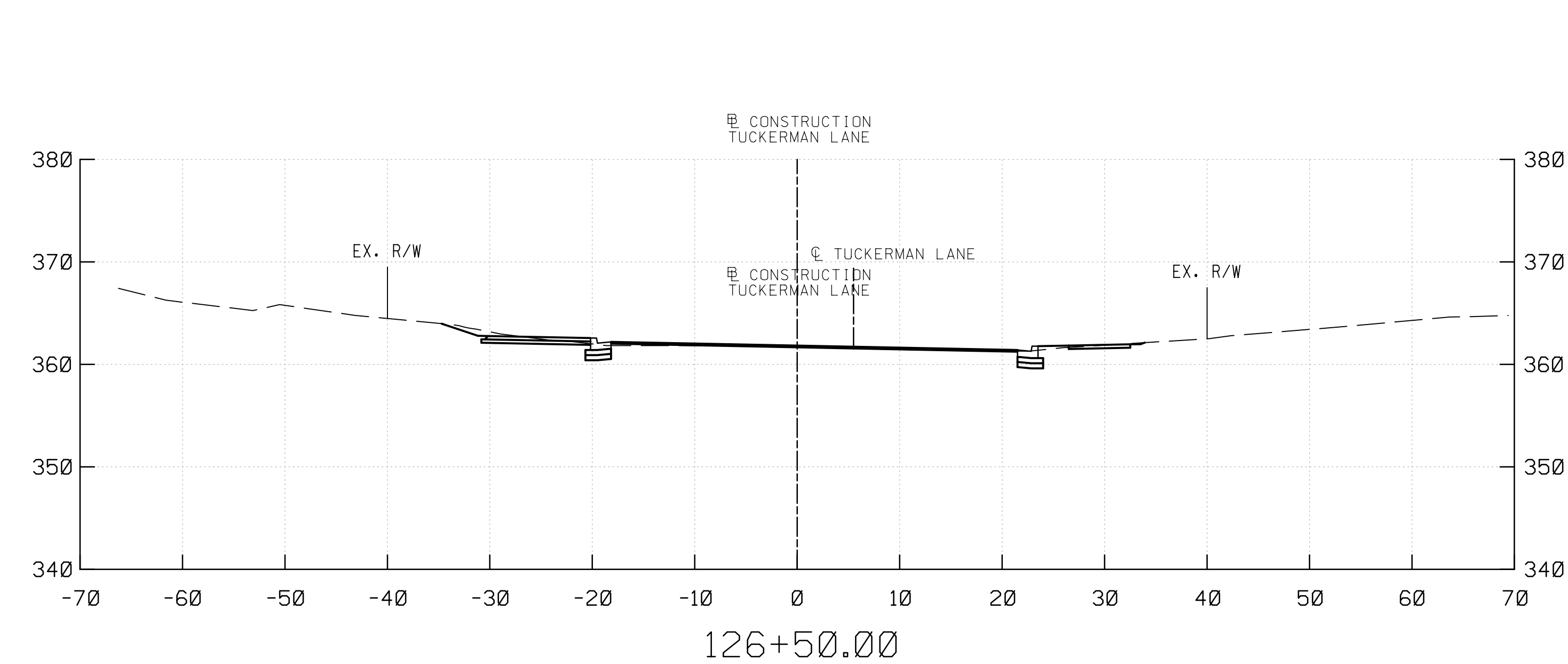
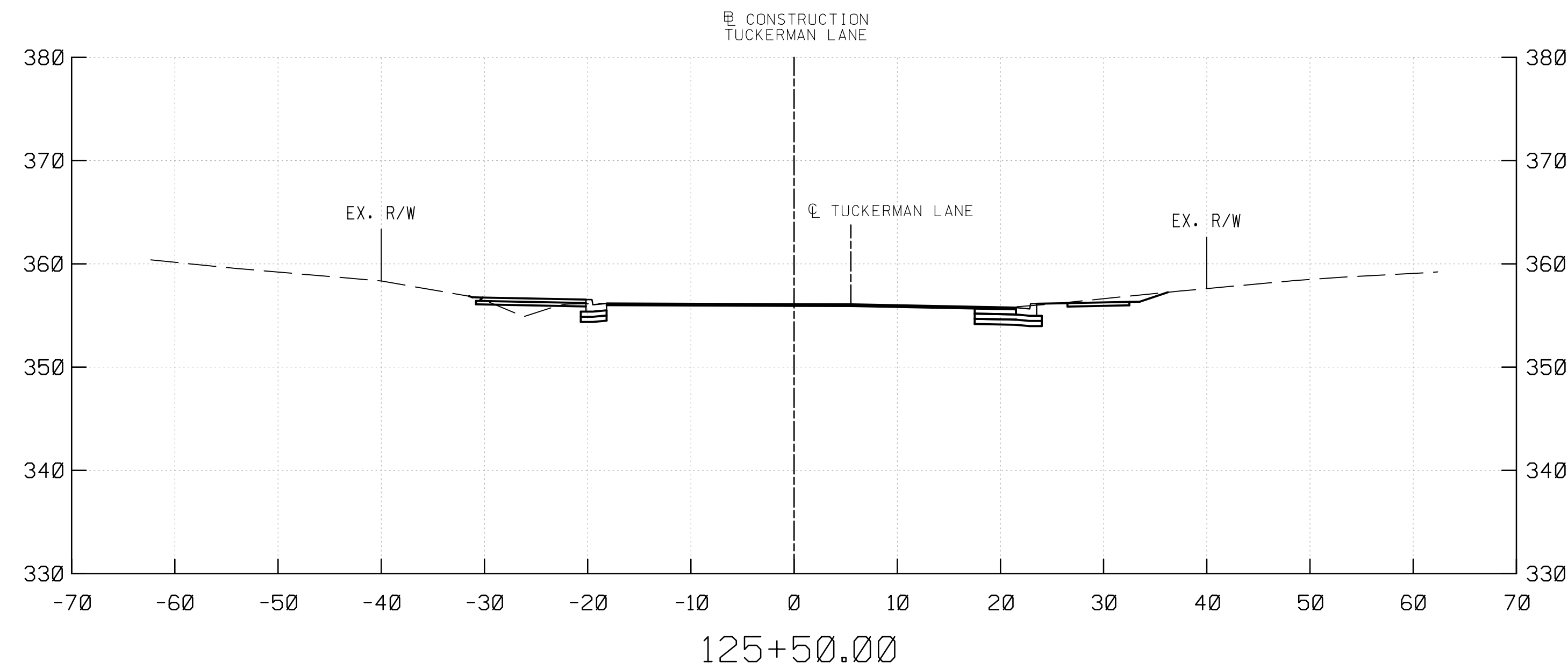
RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

PLAN SHEET CS-08
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 121+50 TO STA. 124+00
 SCALE: 1"= 10' 09/2021
 Project No.: C.I.P. PR. # 509337 SHEET 143 of 171



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL
 DATE : 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

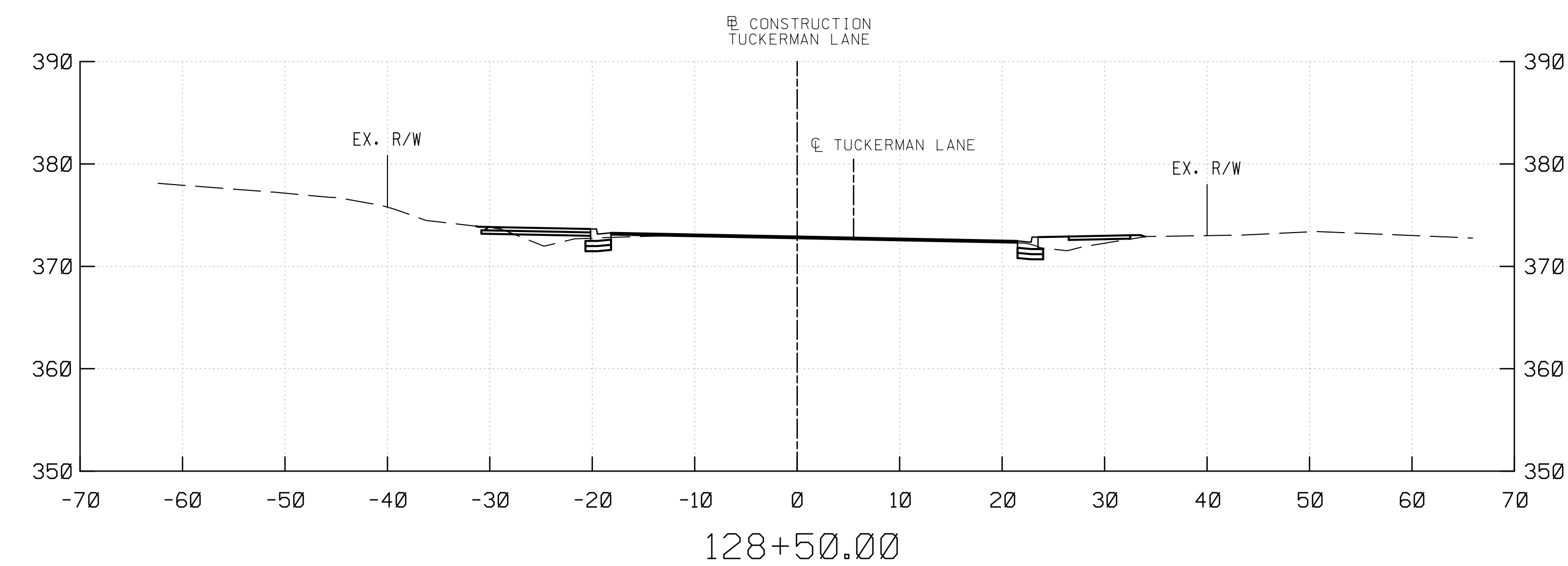
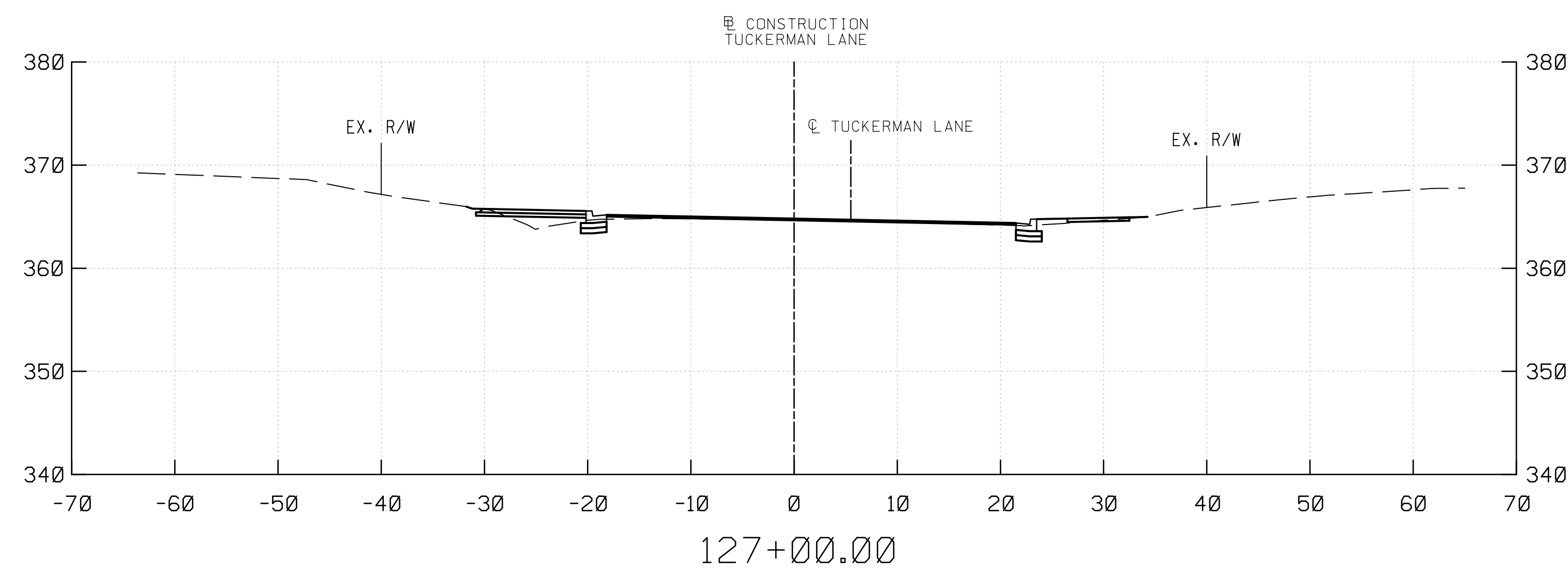
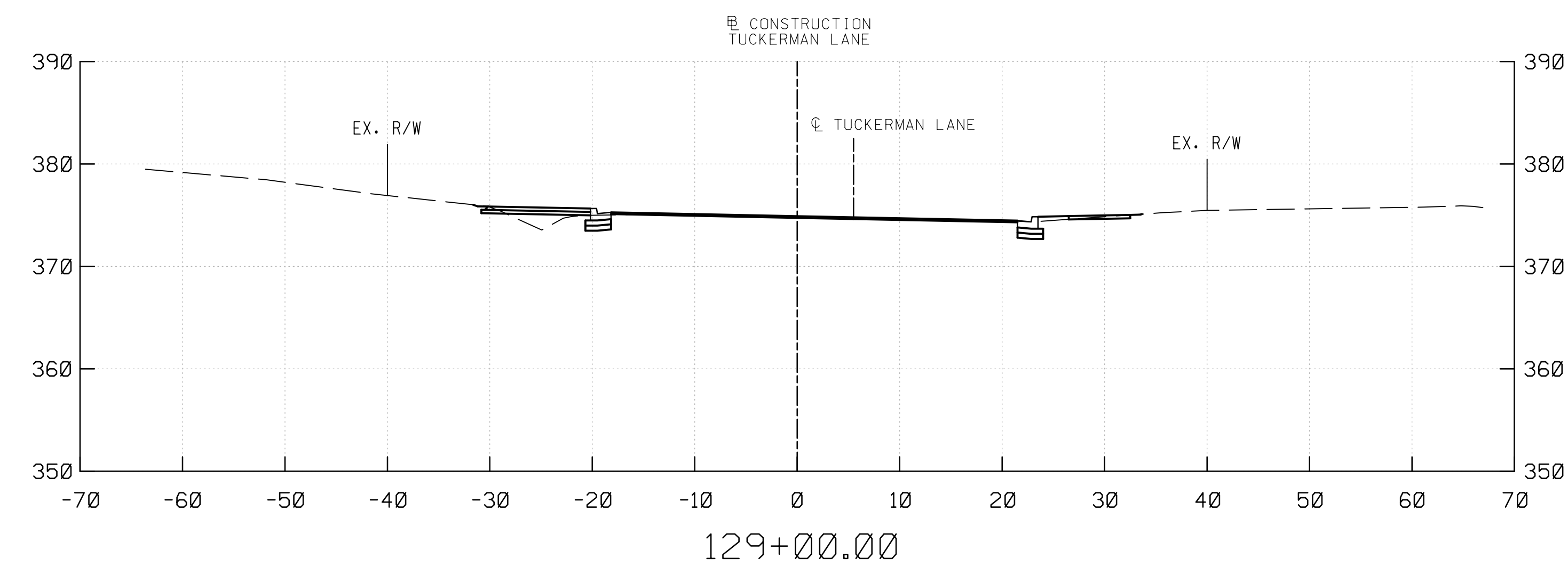
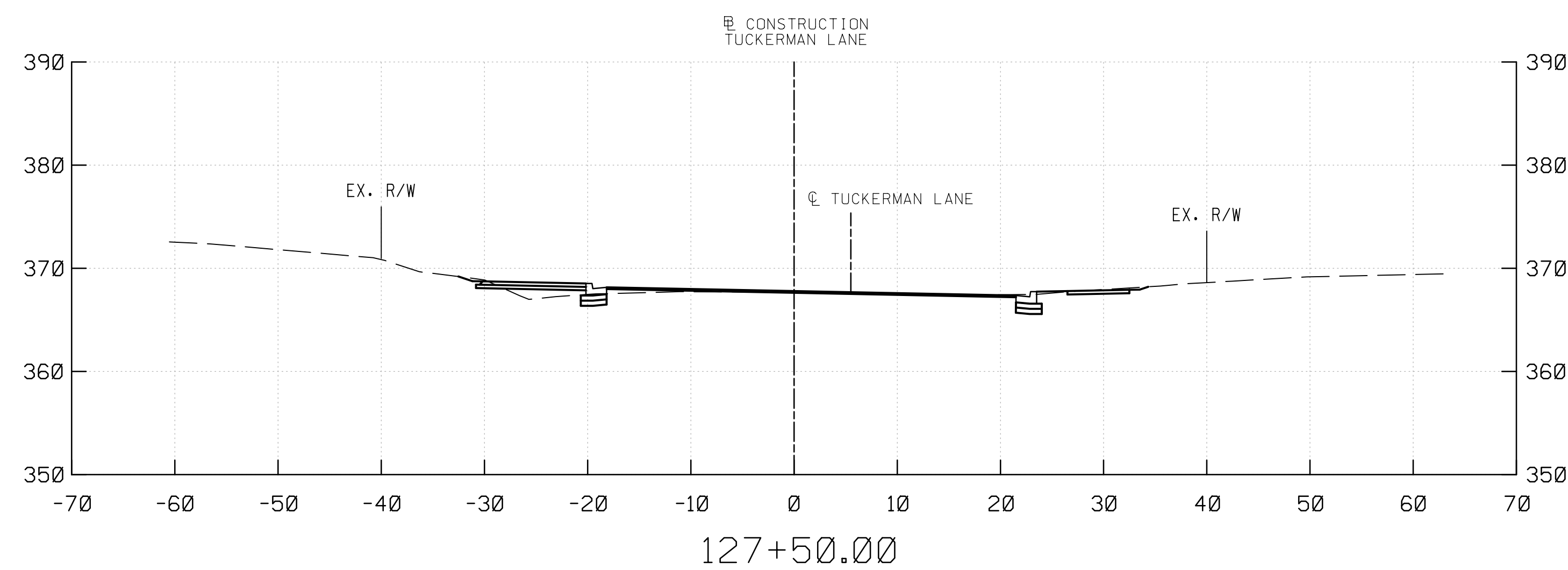
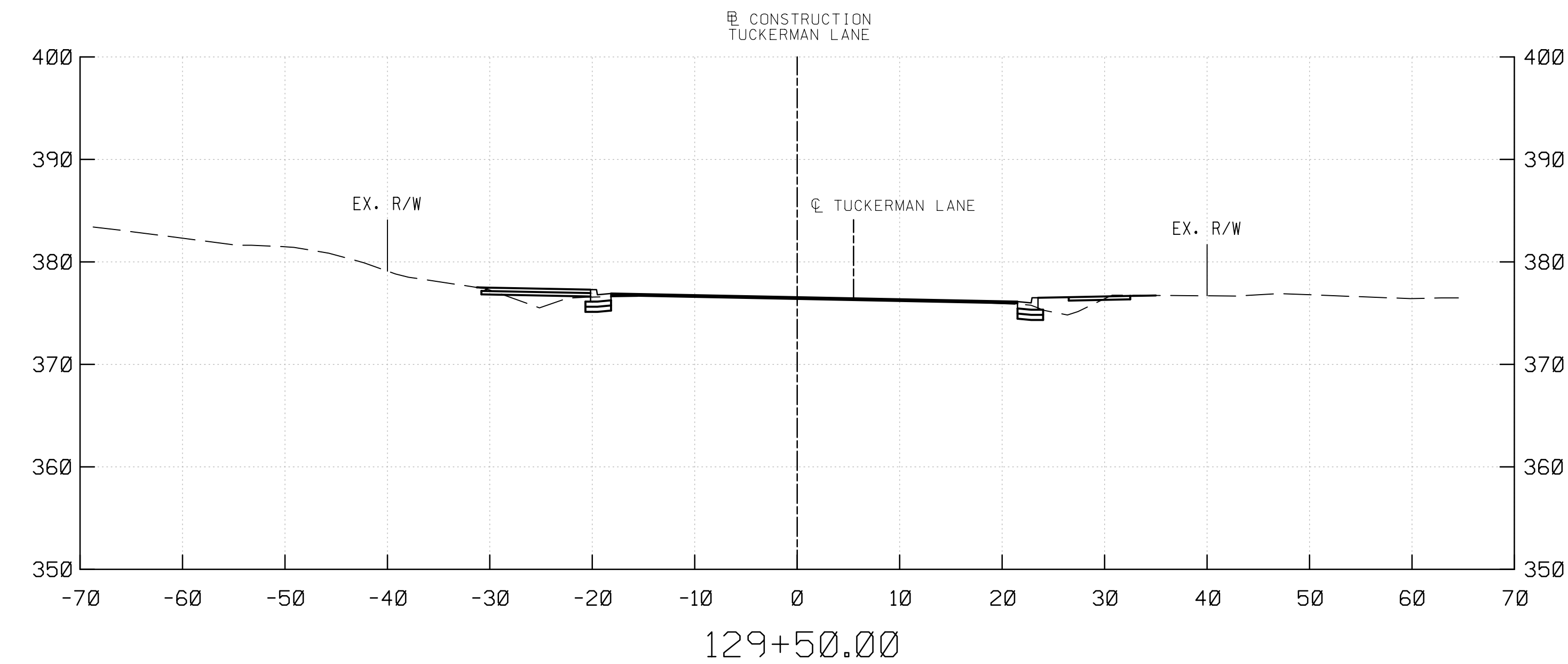
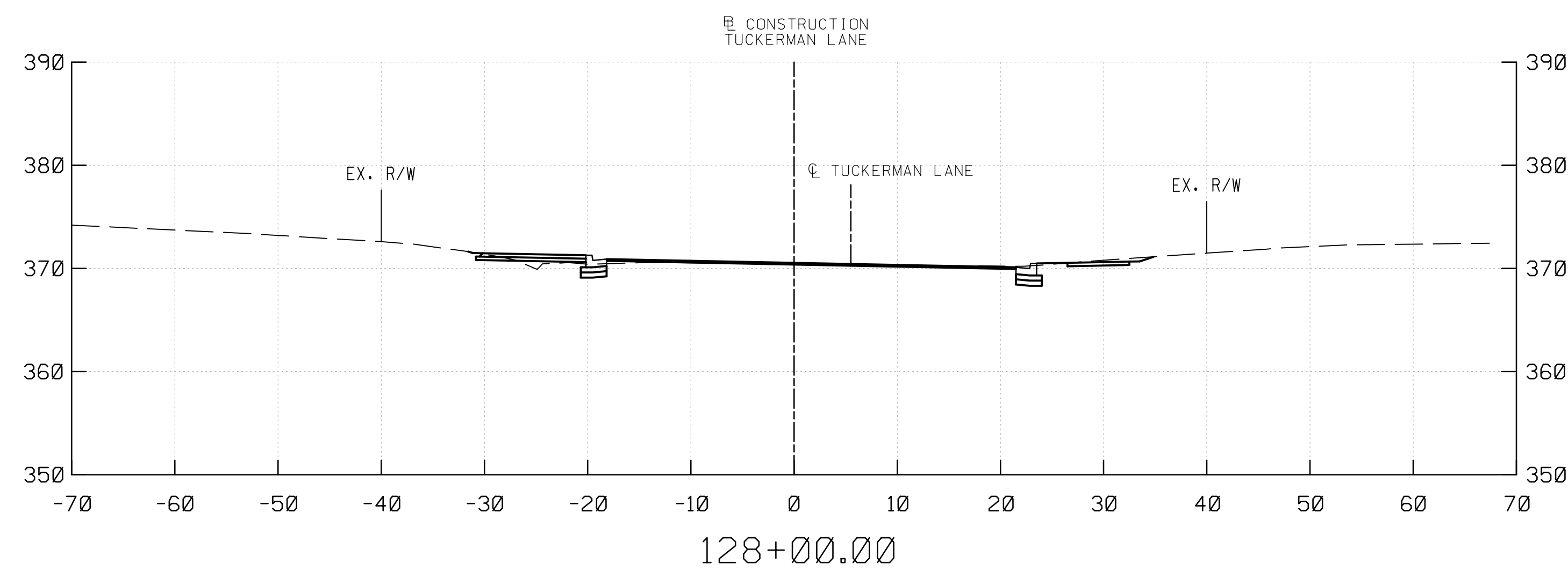
RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by : _____ Drawn by : _____ Checked by : _____

PLAN SHEET CS-09
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 124+50 TO STA. 126+50
 SCALE : 1" = 10'
 Project No. : C.I.P. PR. # 509337 SHEET 144 of 171



PROFESSIONAL CERTIFICATION
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SEAL
 DATE: 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

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MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

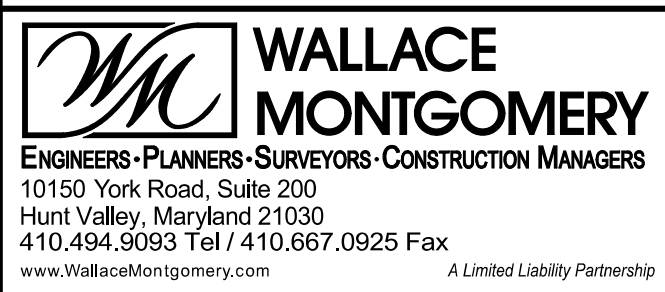
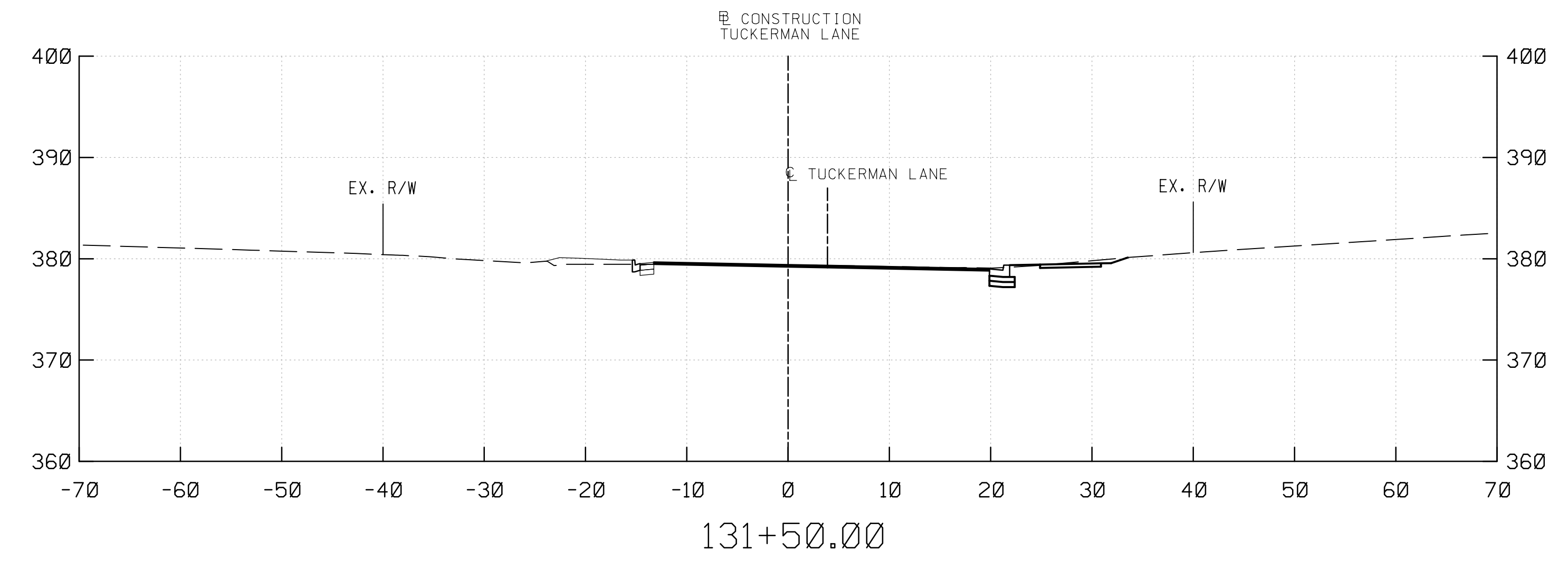
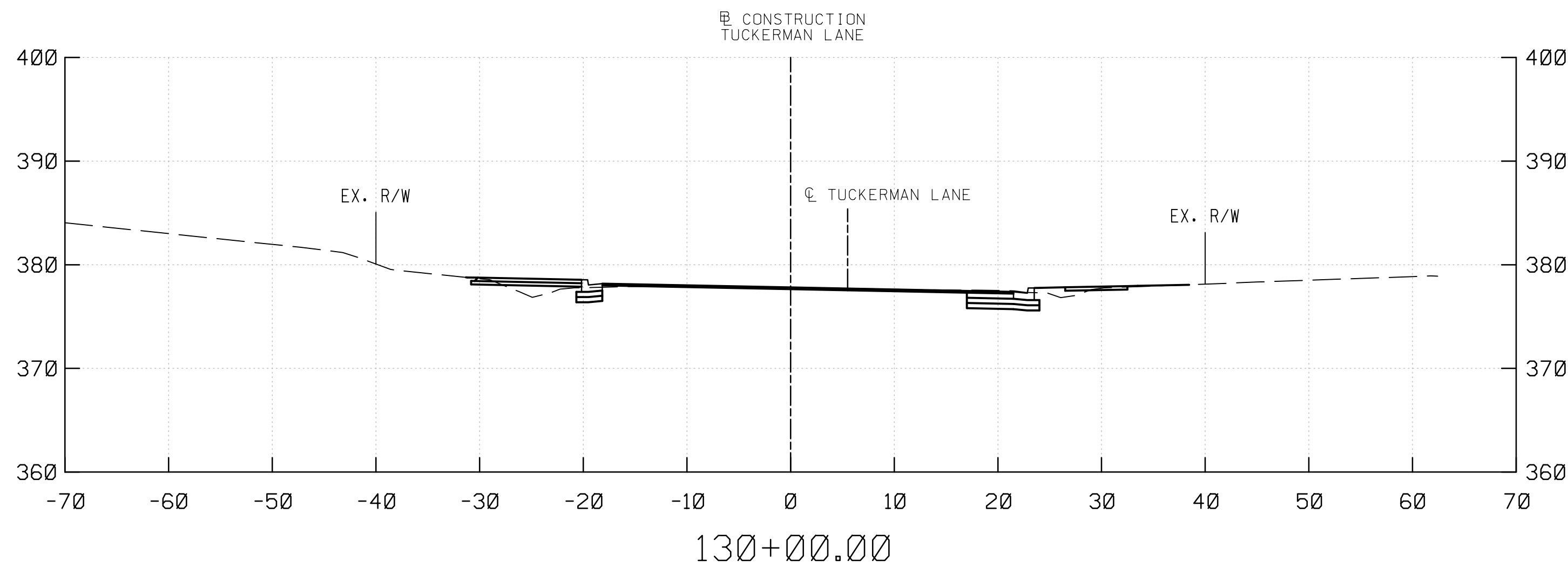
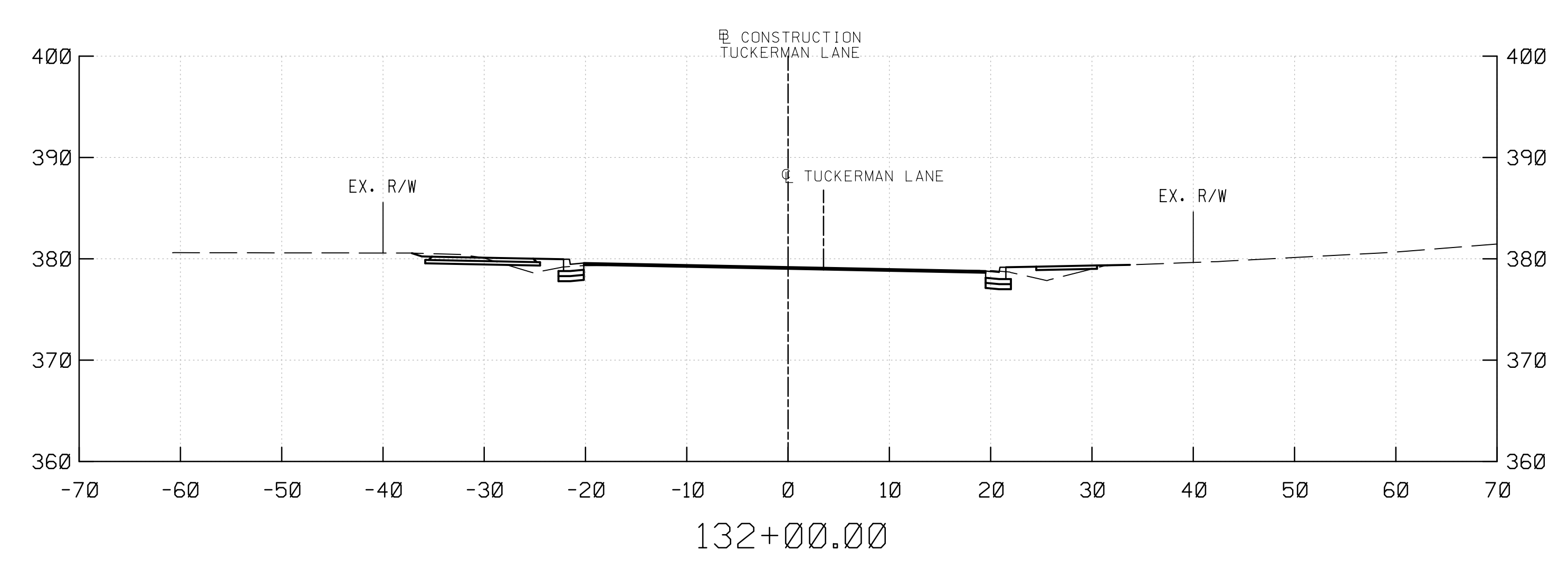
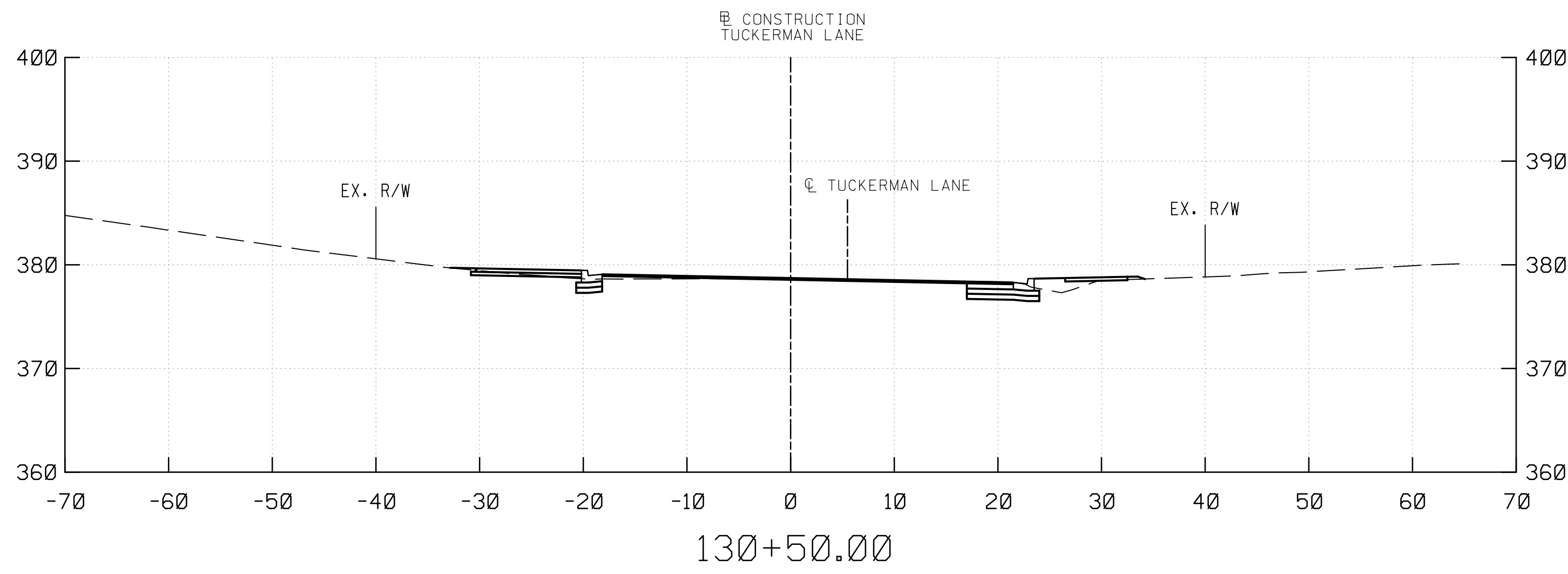
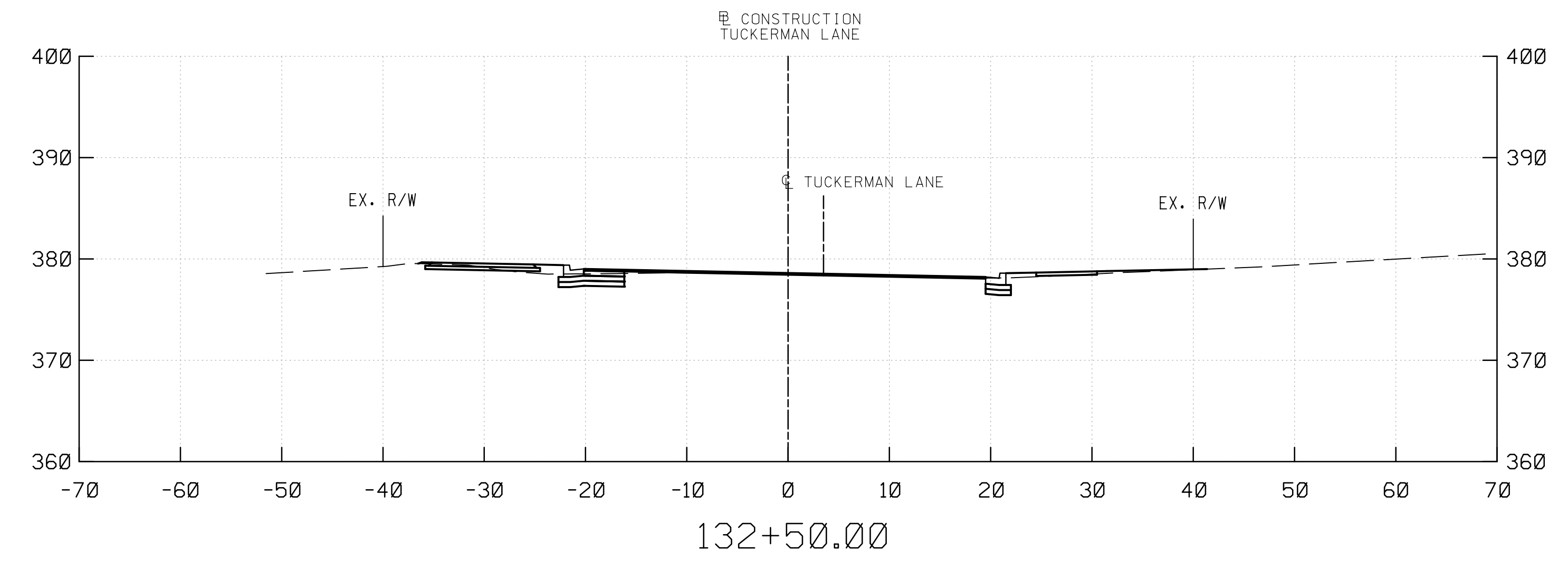
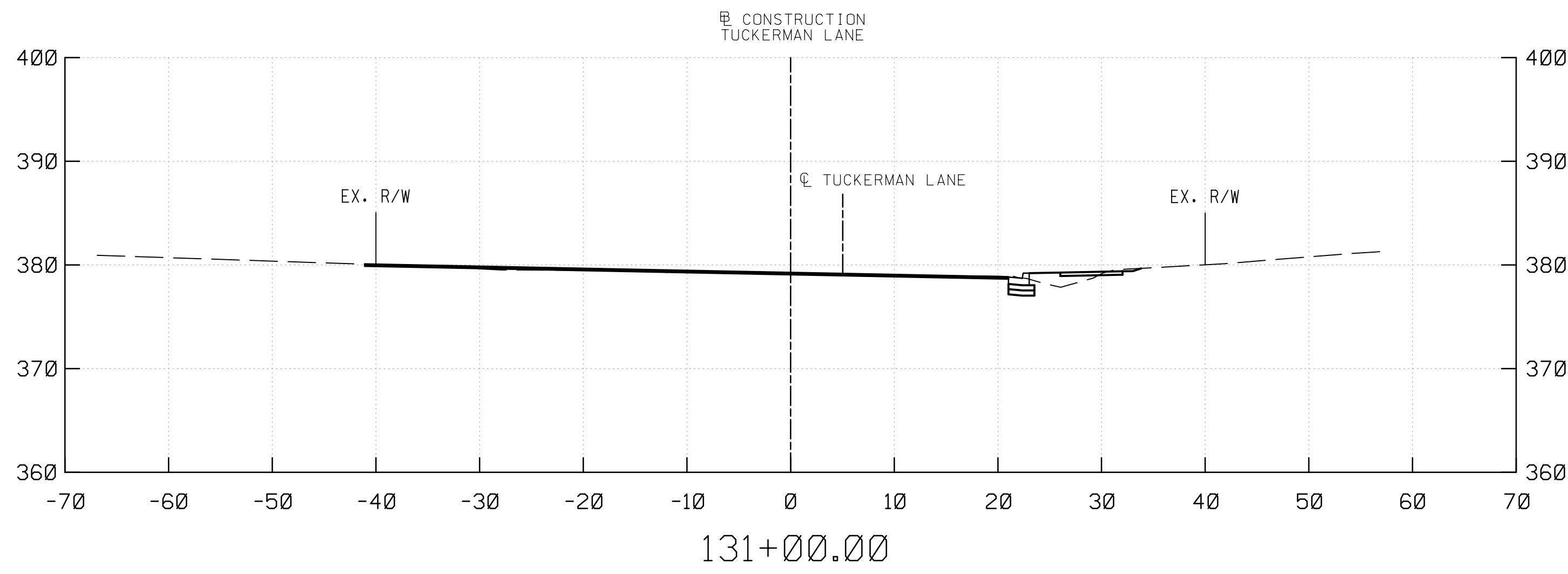
Chief, Division of Engineering Services _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

PLAN SHEET CS-10
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 127+00 TO STA. 129+50

SCALE: 1"= 10' 09/2021

Project No.: C.I.P. PR. # 509337 SHEET 145 of 171



PROFESSIONAL CERTIFICATION
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 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL
 DATE : 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

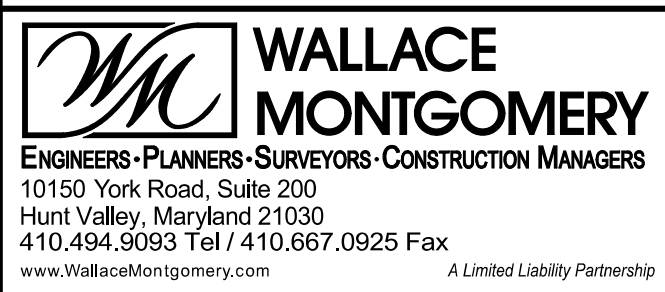
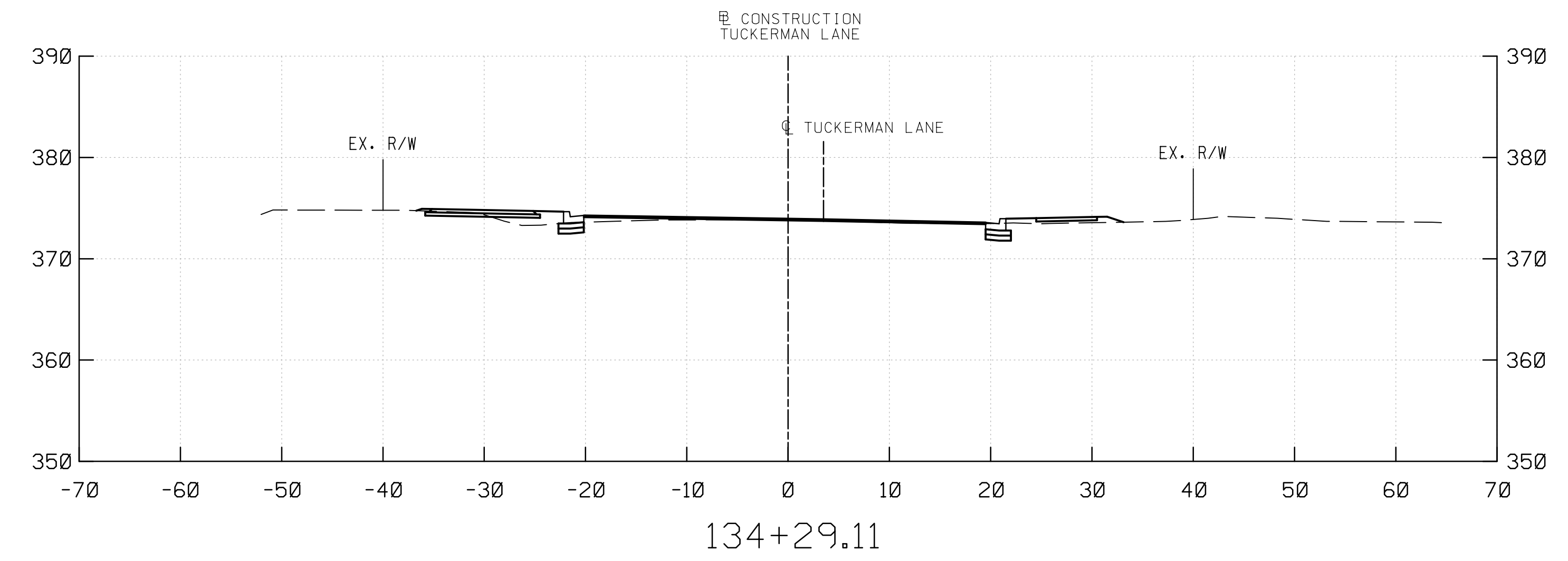
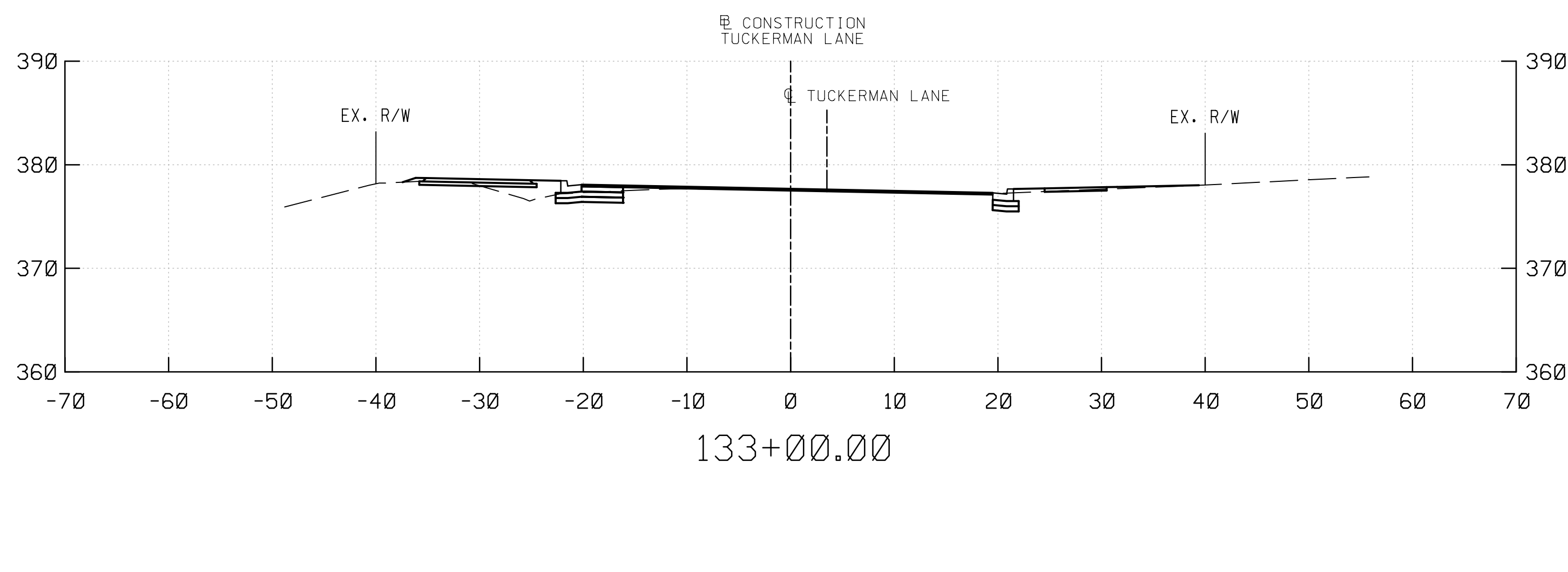
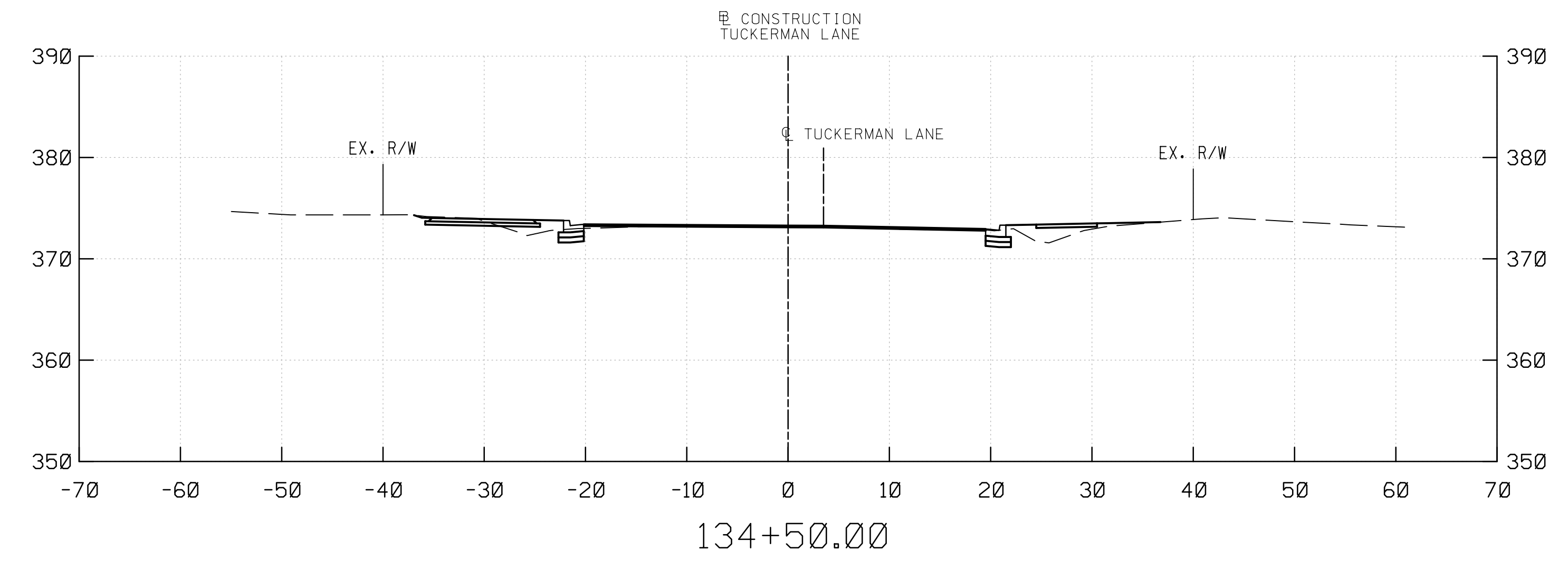
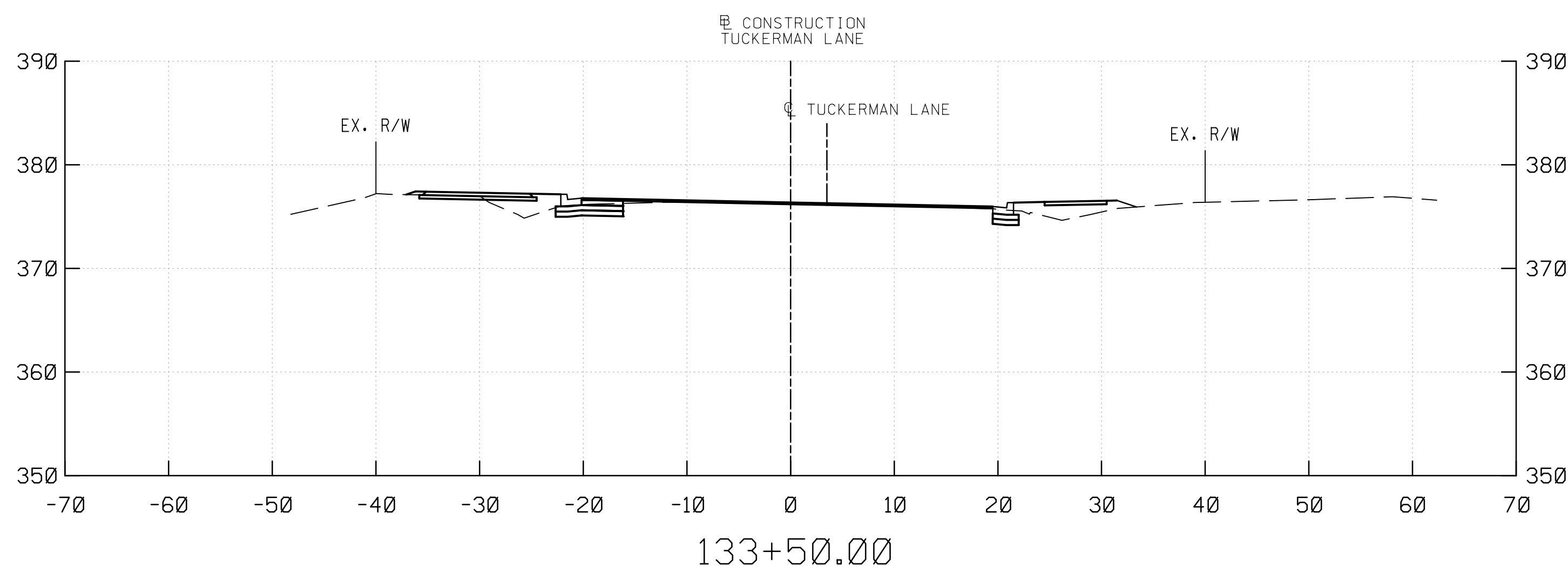
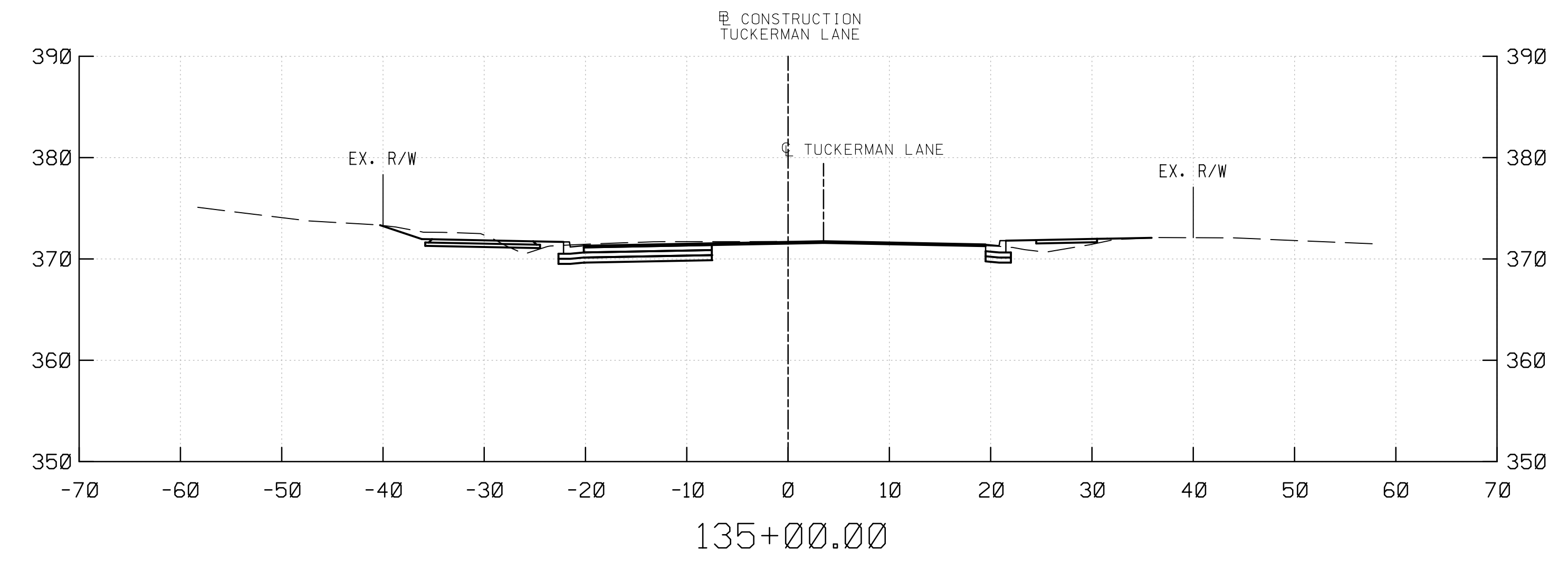
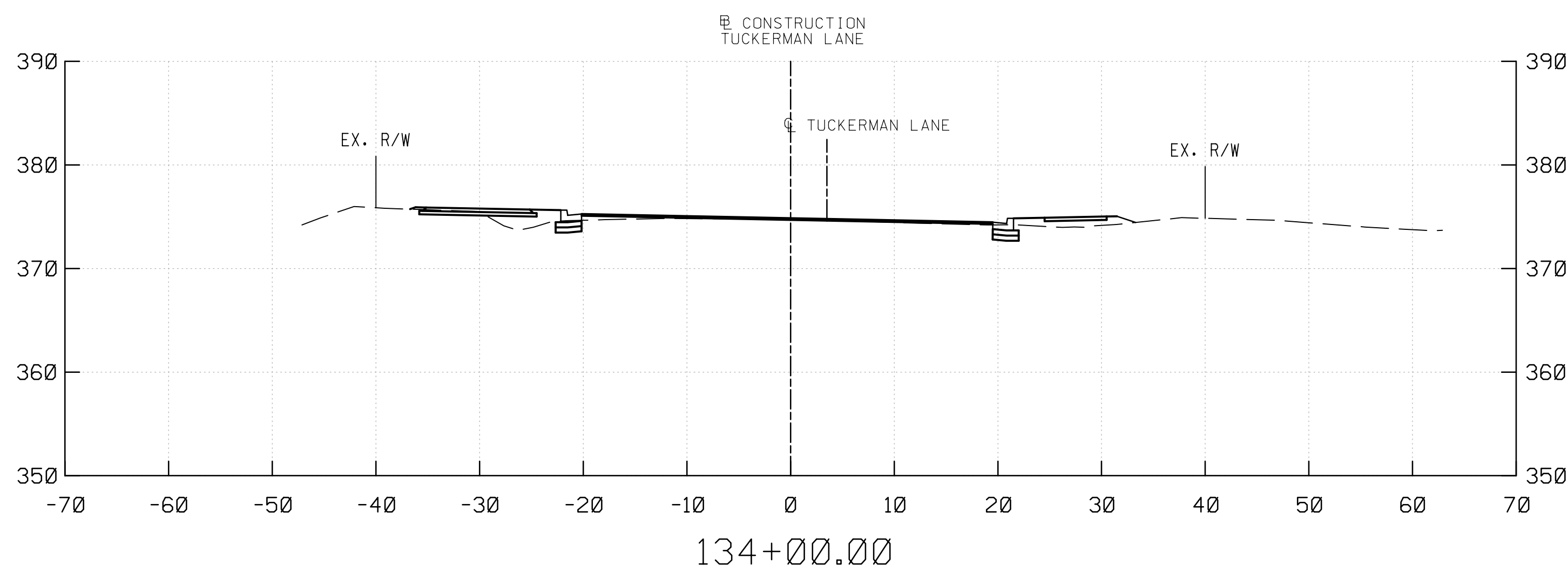
RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by : _____ Drawn by : _____ Checked by : _____

PLAN SHEET CS-11
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 130+00 TO STA. 132+50
 SCALE : 1" = 10' 09/2021
 Project No. : C.I.P. PR. # 509337 SHEET 146 of 171



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL
 DATE: 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

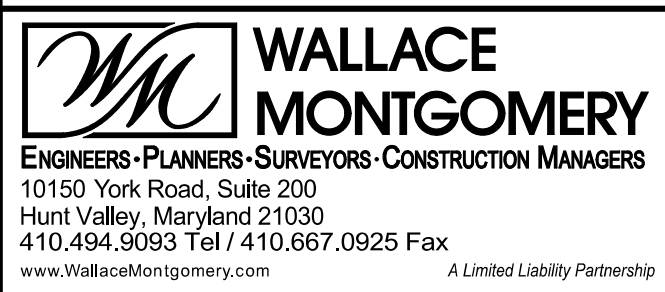
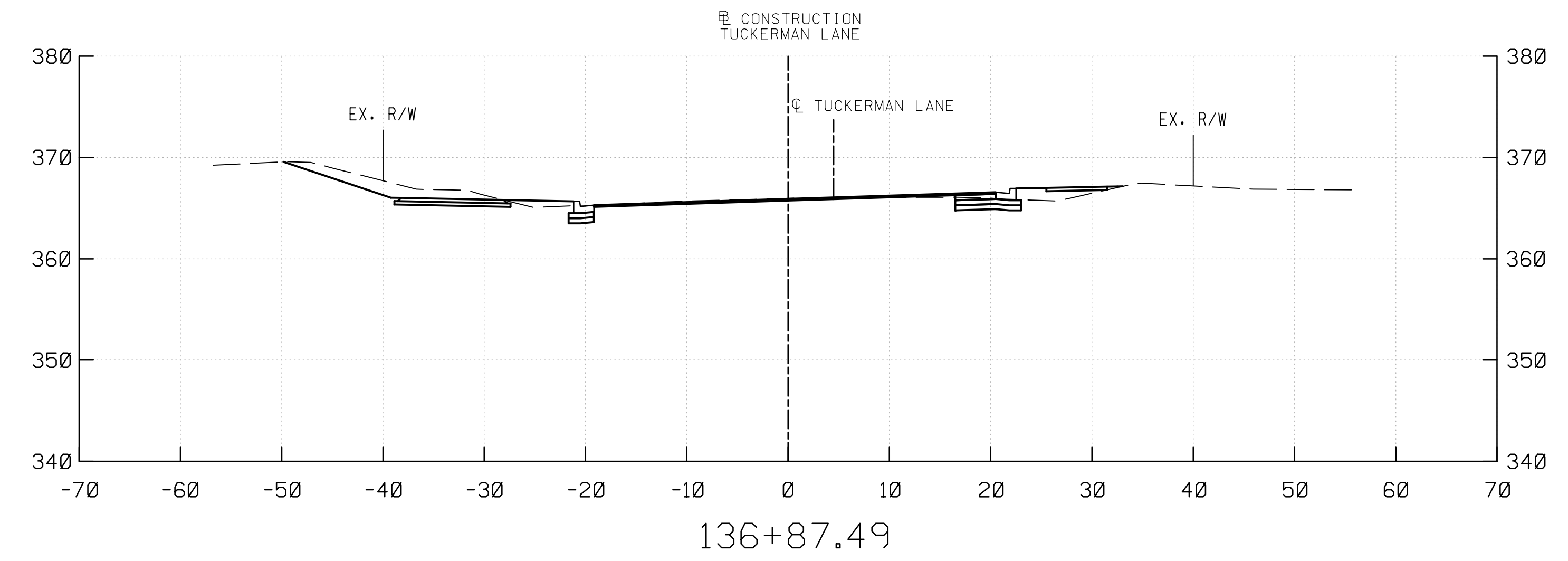
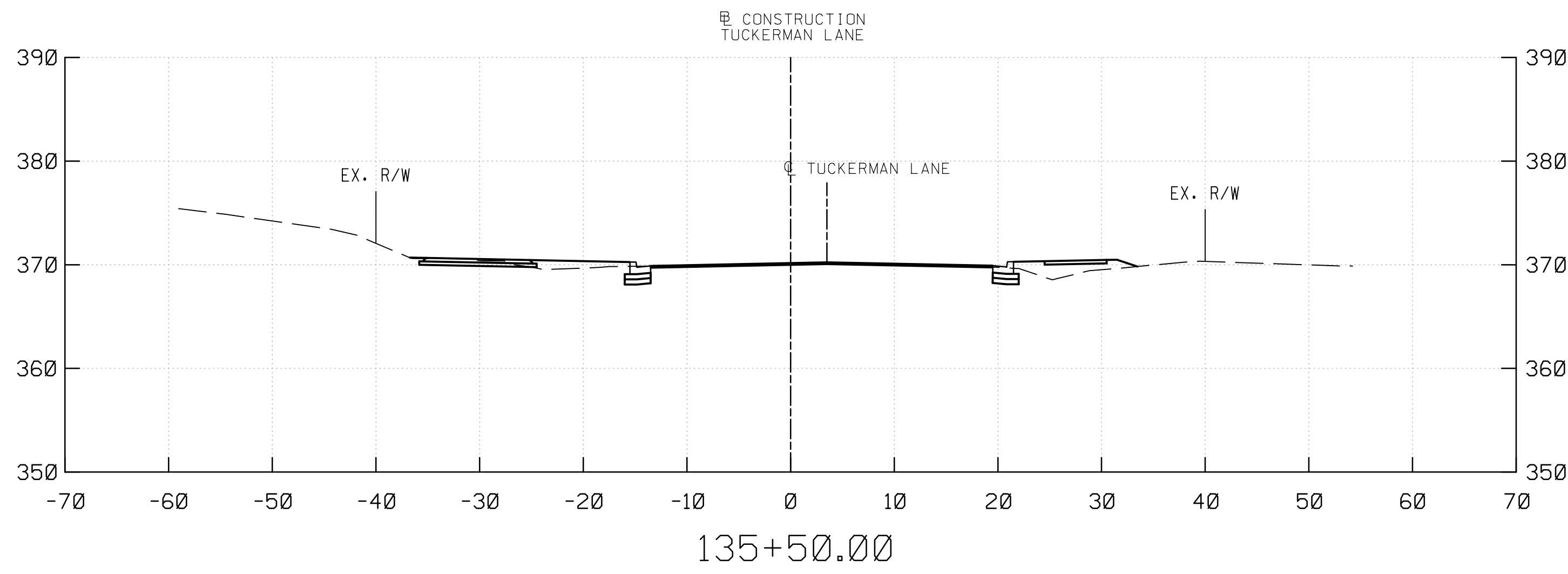
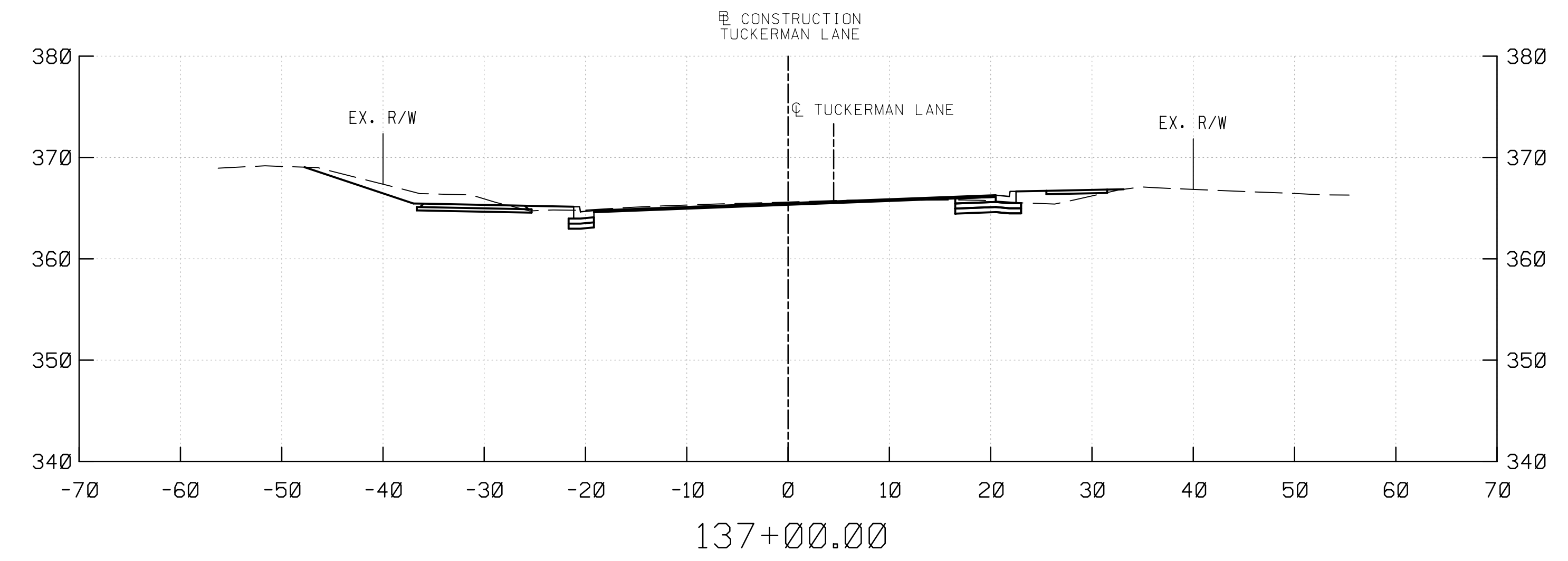
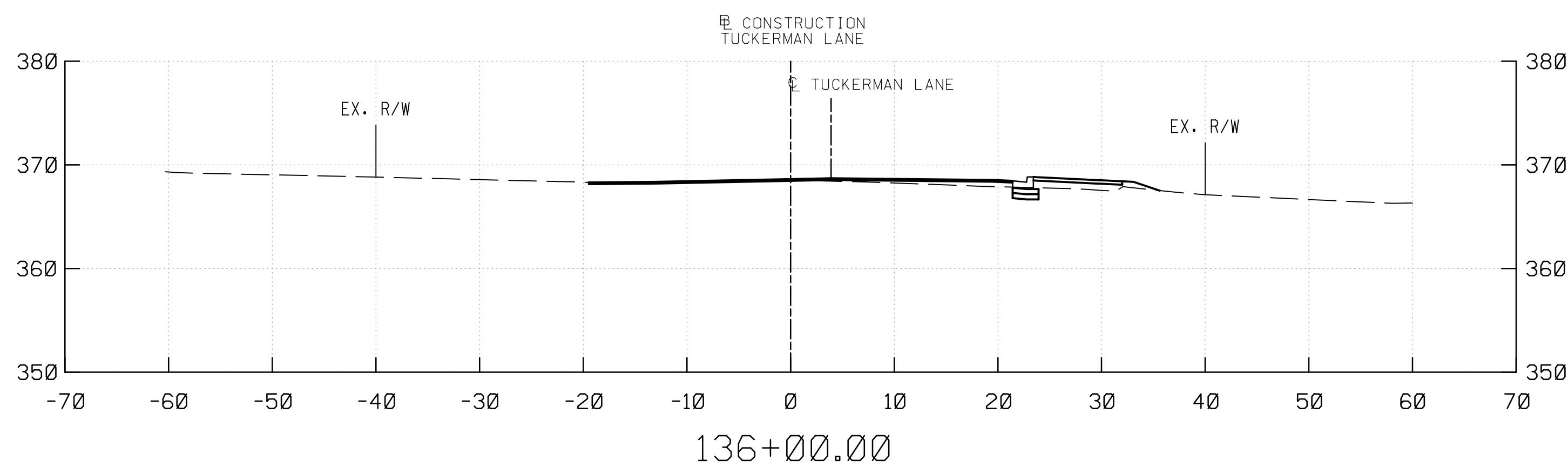
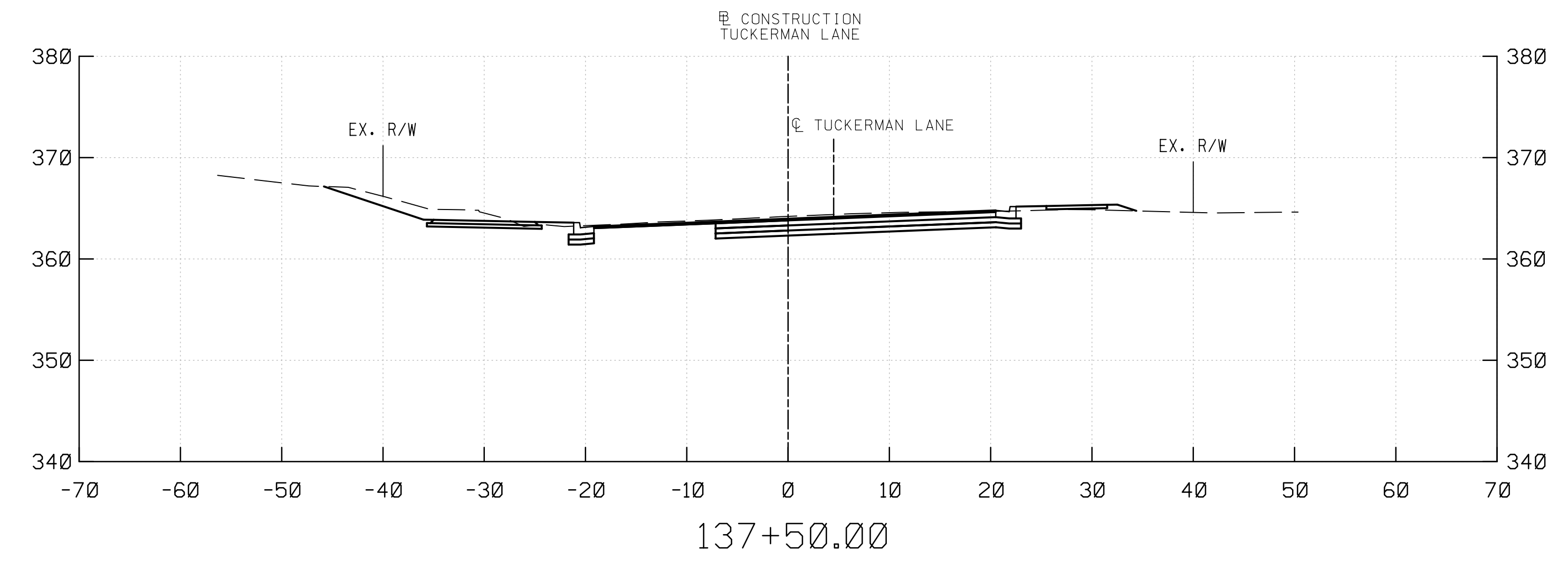
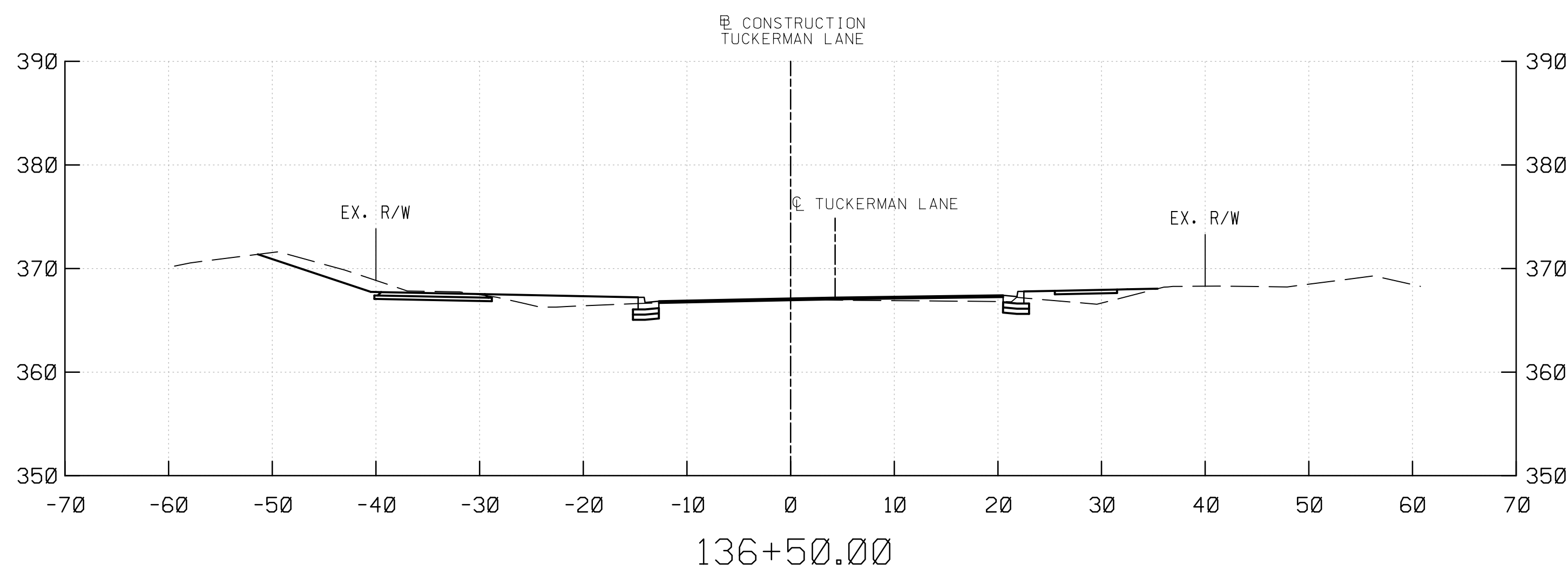
RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

PLAN SHEET CS-12
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 133+00 TO STA. 135+00
 SCALE: 1"= 10' 09/2021
 Project No.: C.I.P. PR. # 509337 SHEET 147 of 171



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL
 DATE: 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

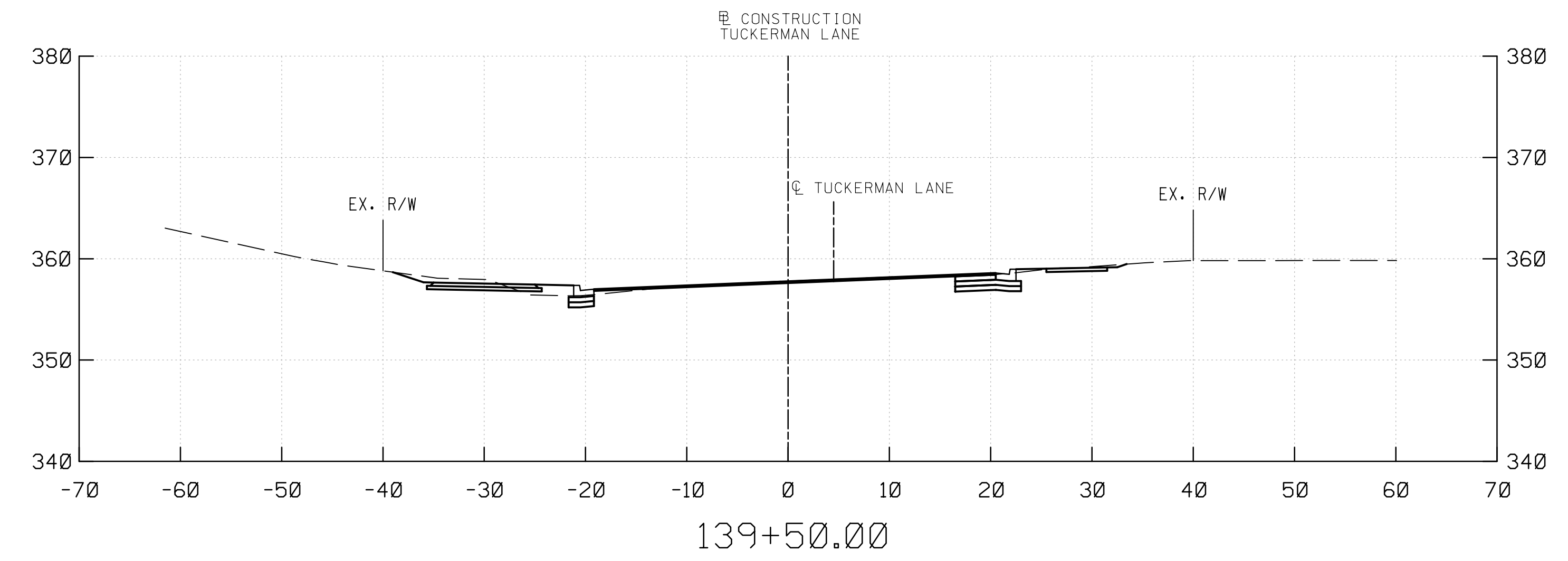
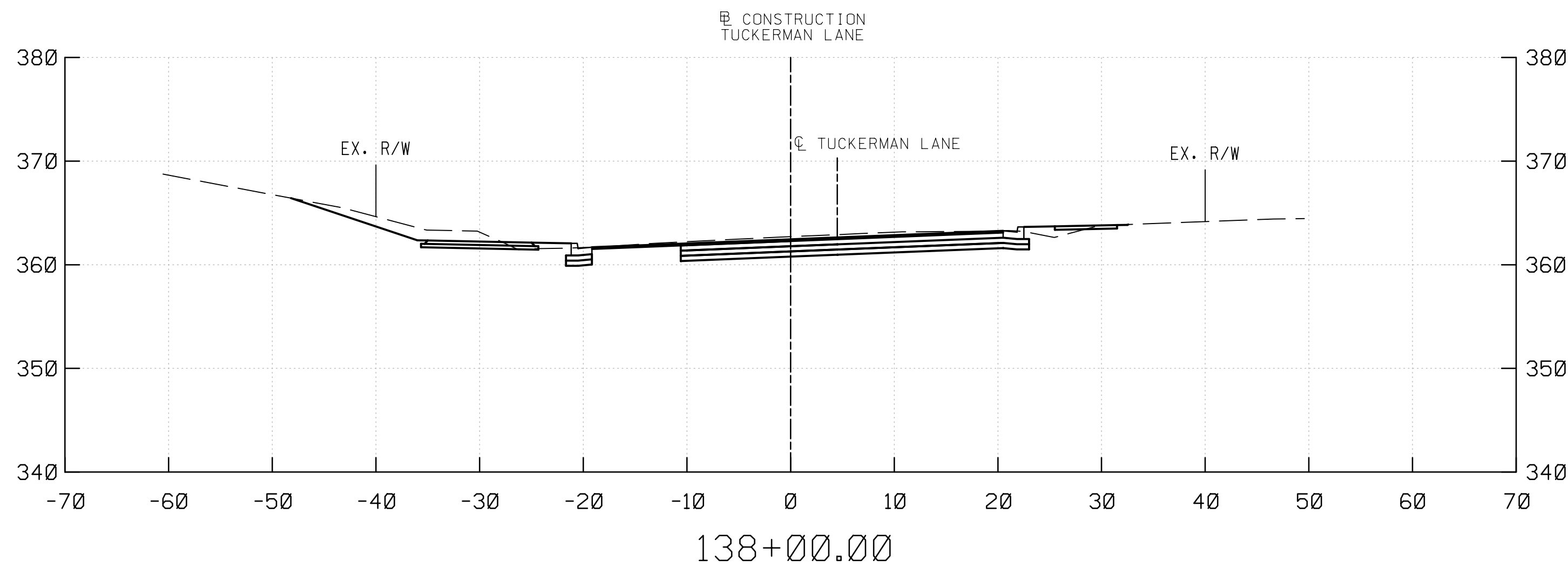
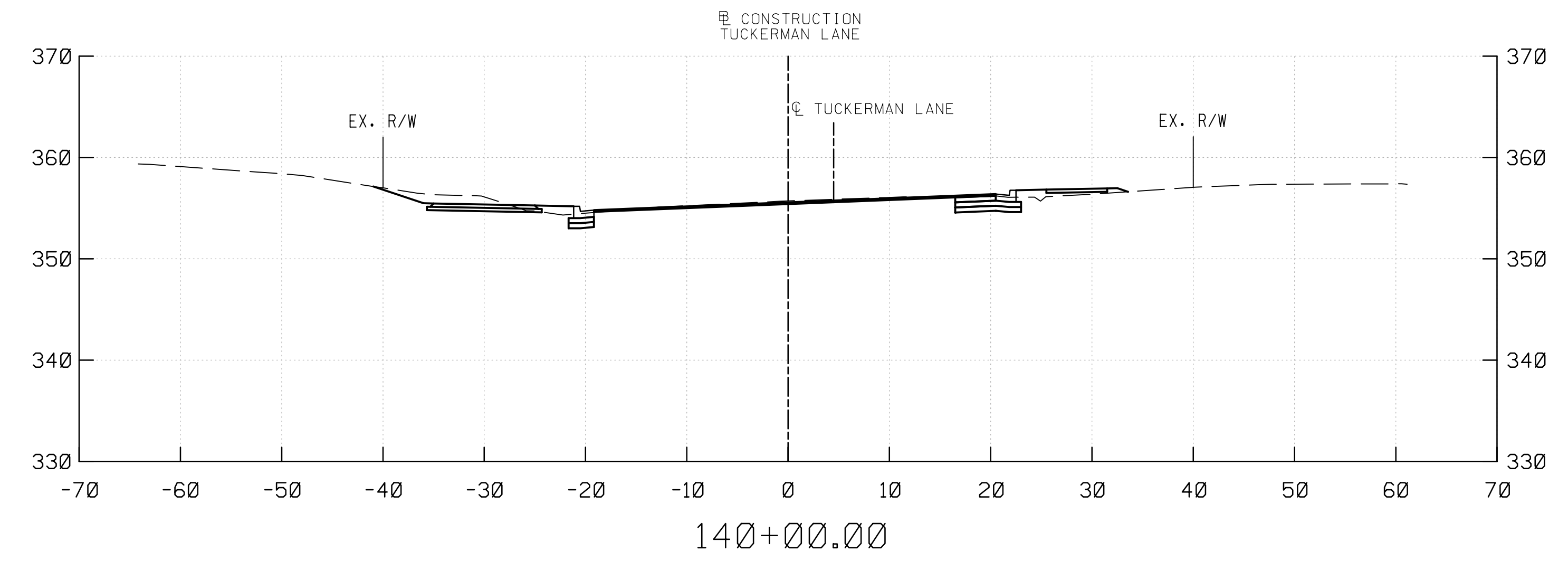
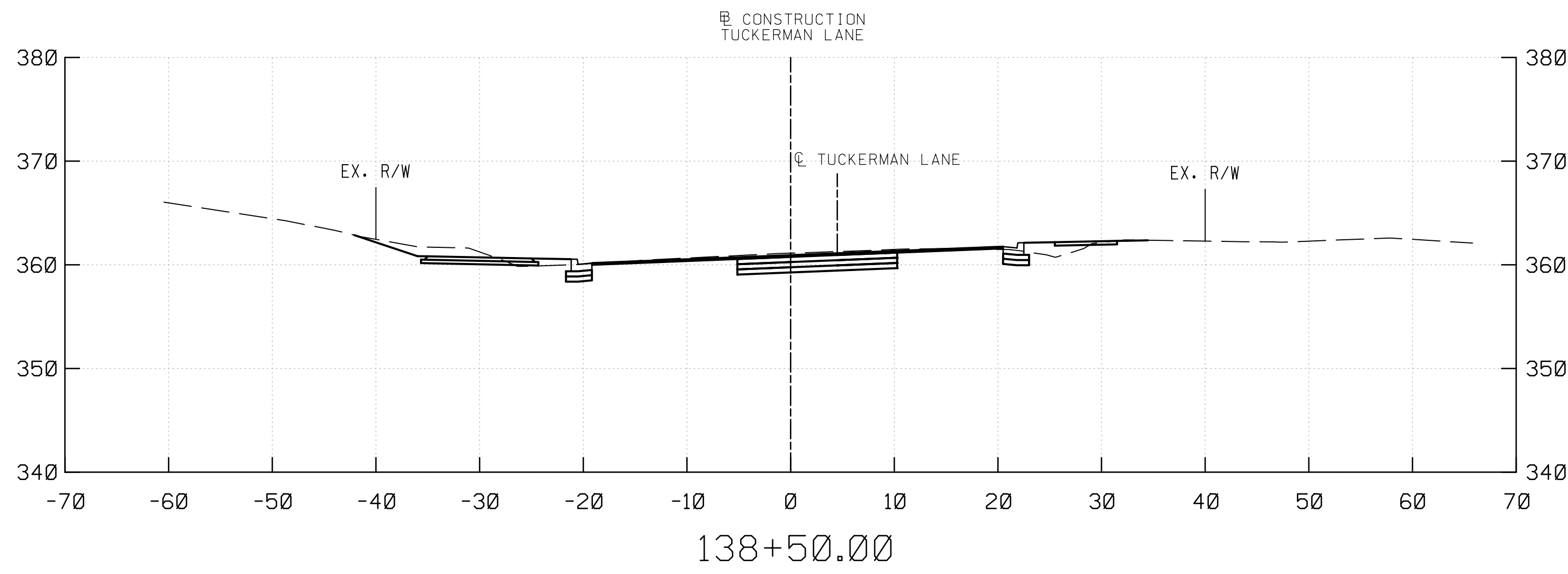
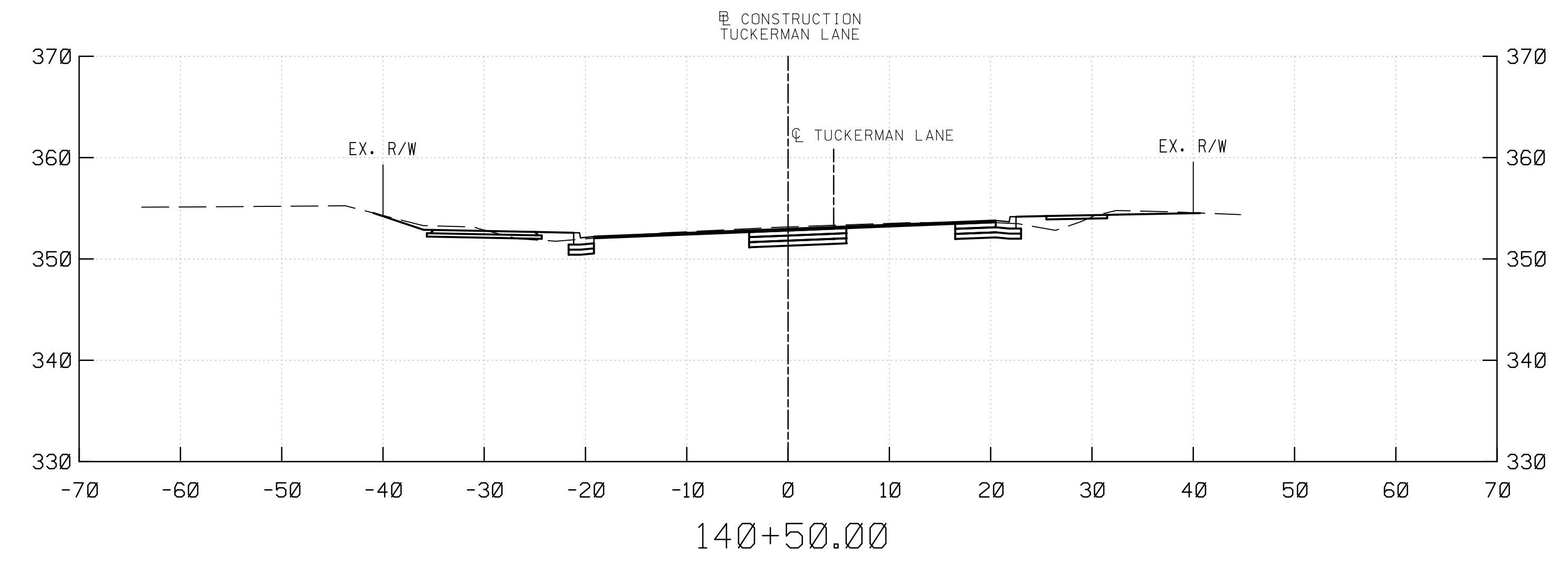
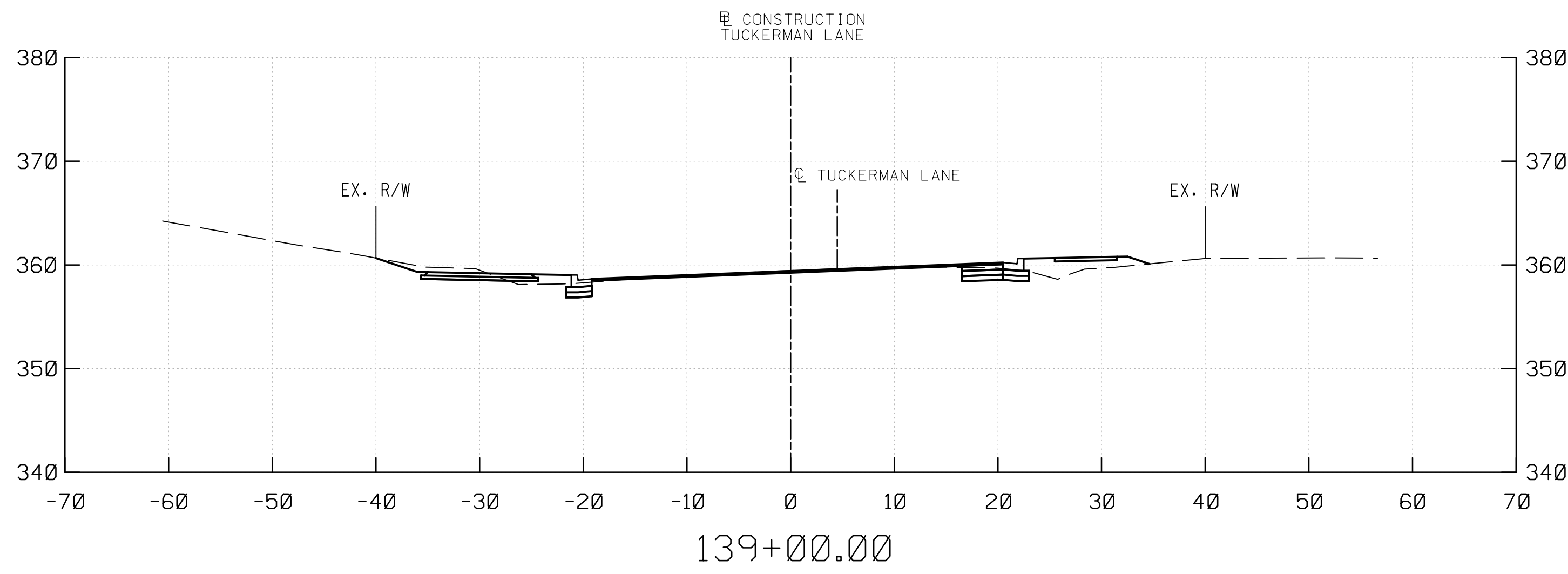
RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

PLAN SHEET CS-13
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 135+50 TO STA. 137+50
 SCALE: 1"= 10'
 Project No.: C.I.P. PR. # 509337 SHEET 148 of 171



WALLACE MONTGOMERY
 ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
 10150 York Road, Suite 200
 Hunt Valley, Maryland 21030
 410.494.9093 | Fax: 410.667.0925
 www.WallaceMontgomery.com

PROFESSIONAL CERTIFICATION
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 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL
 DATE: 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

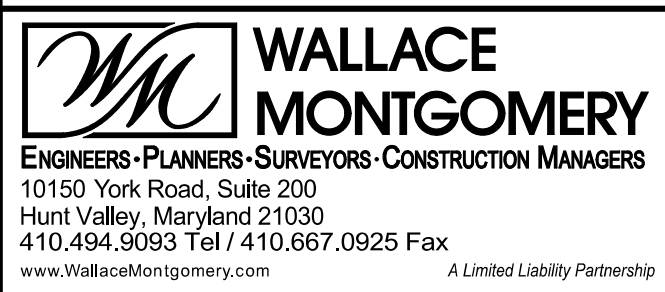
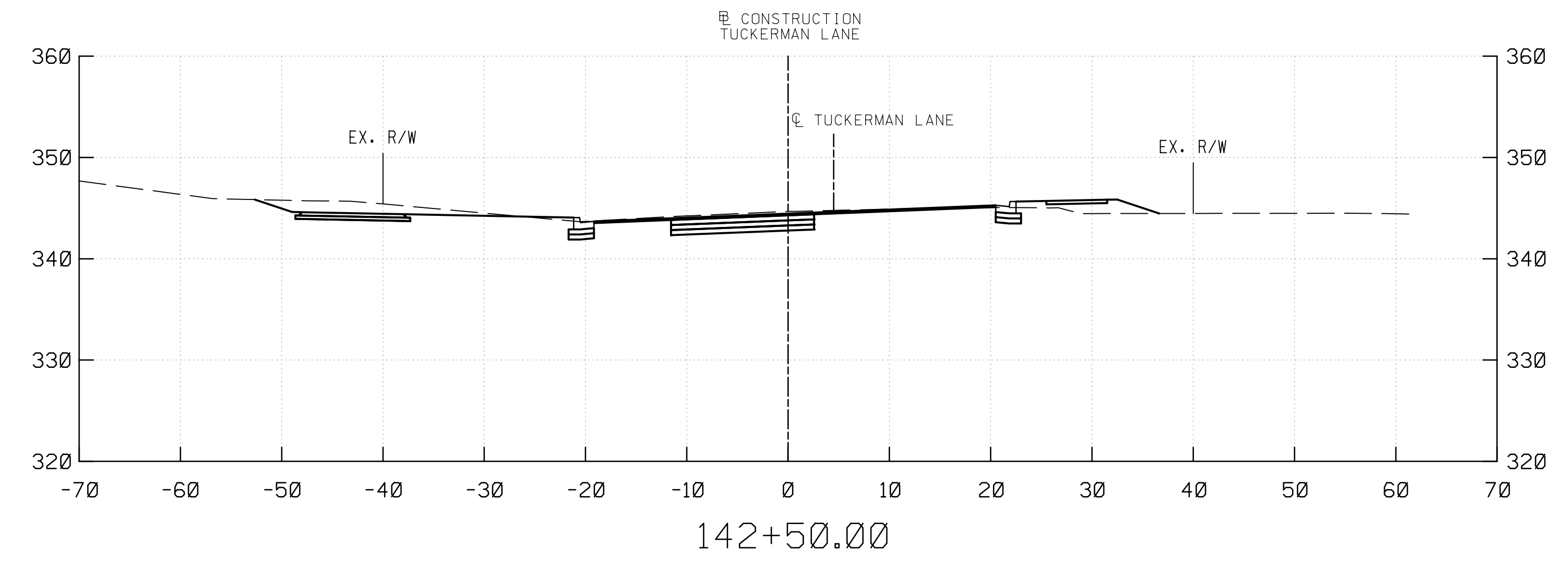
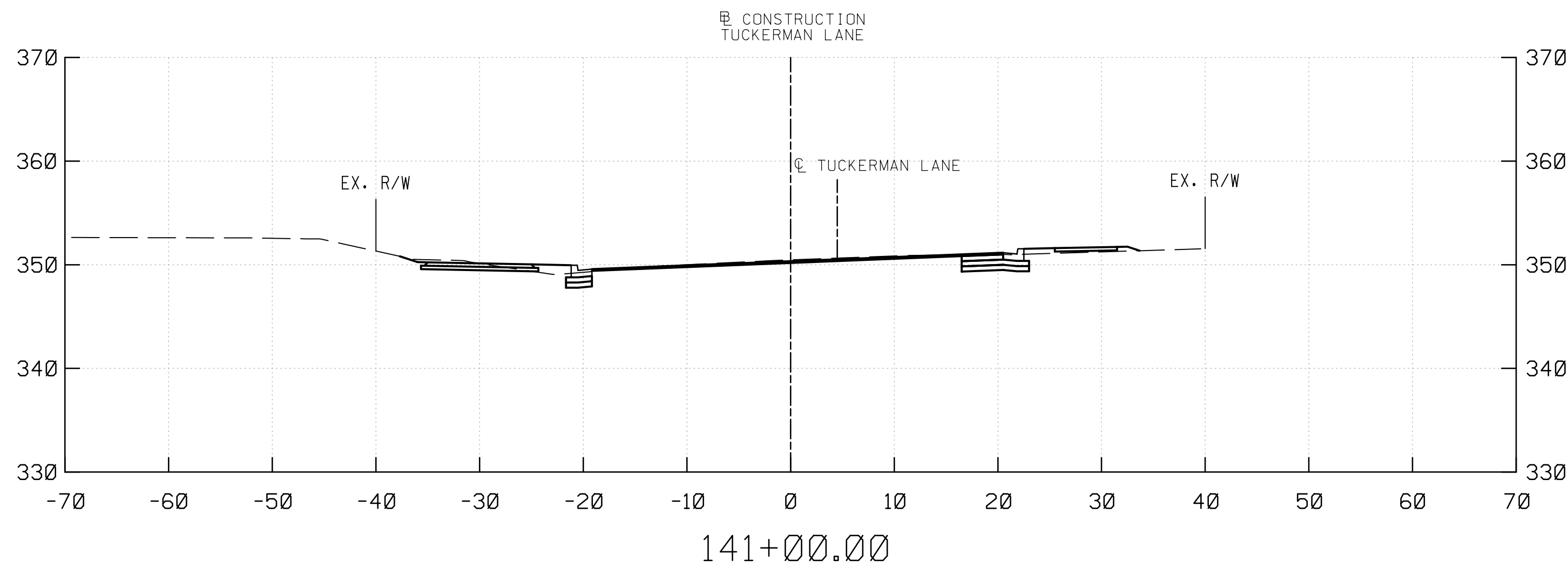
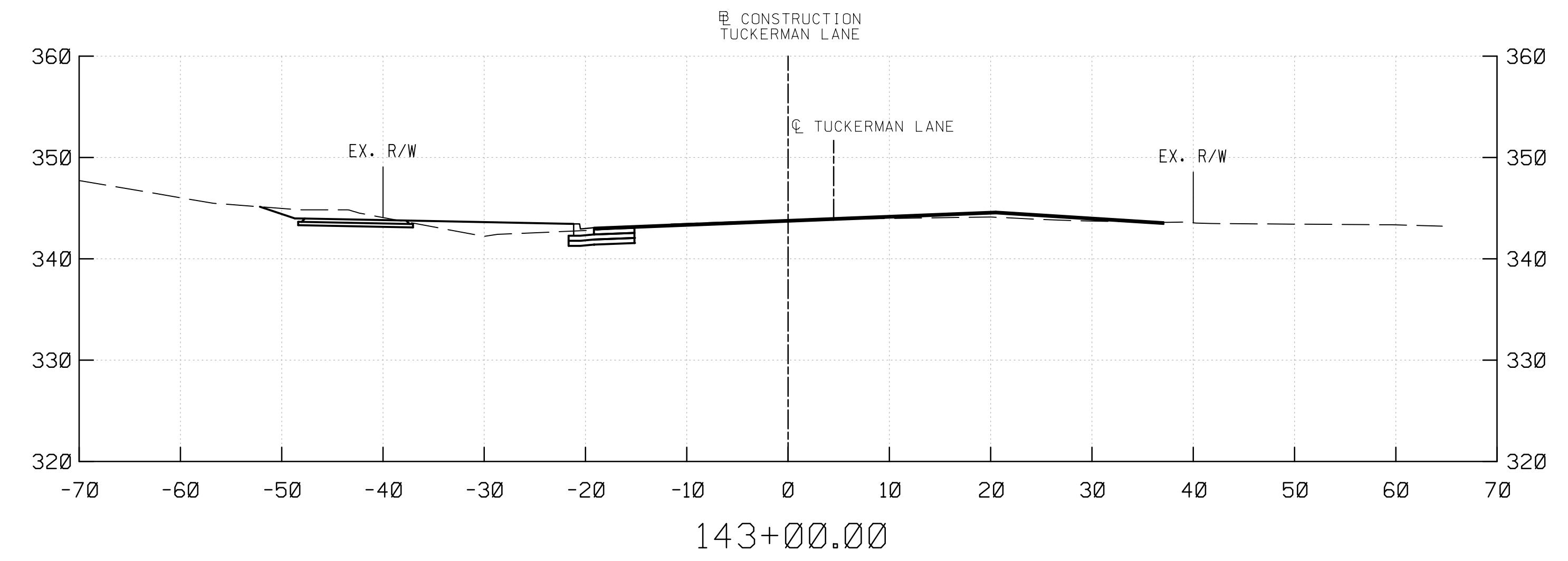
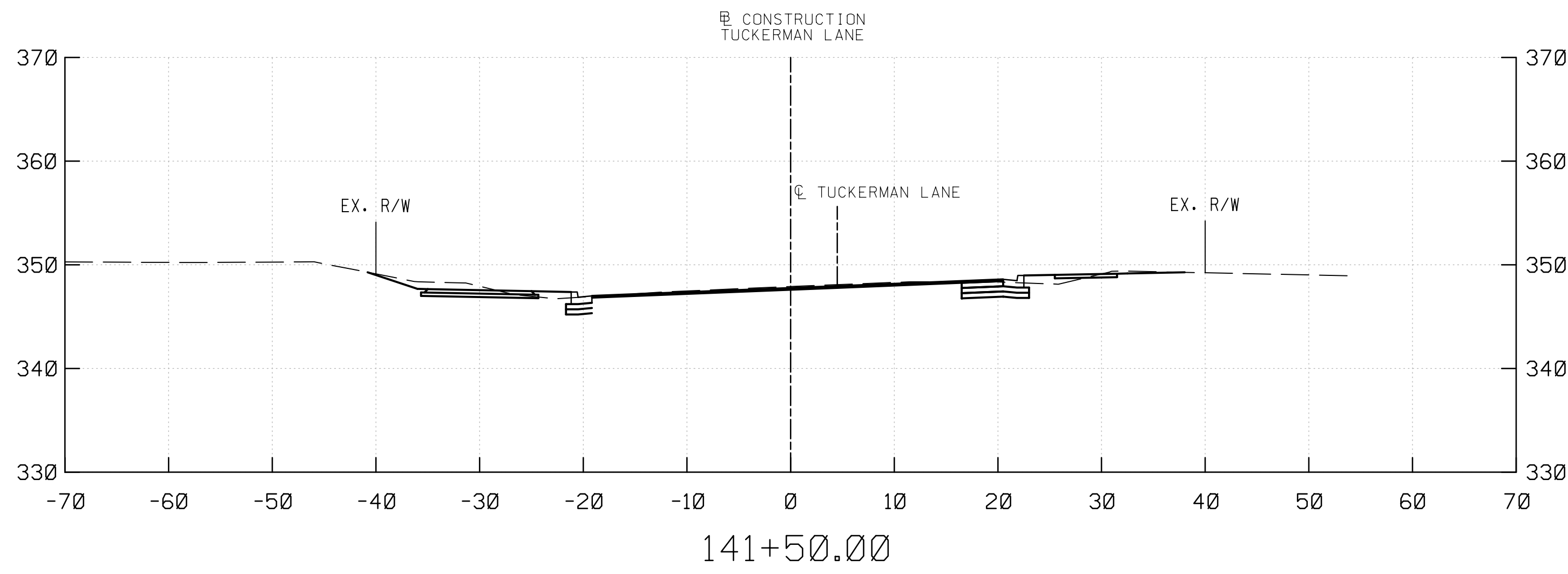
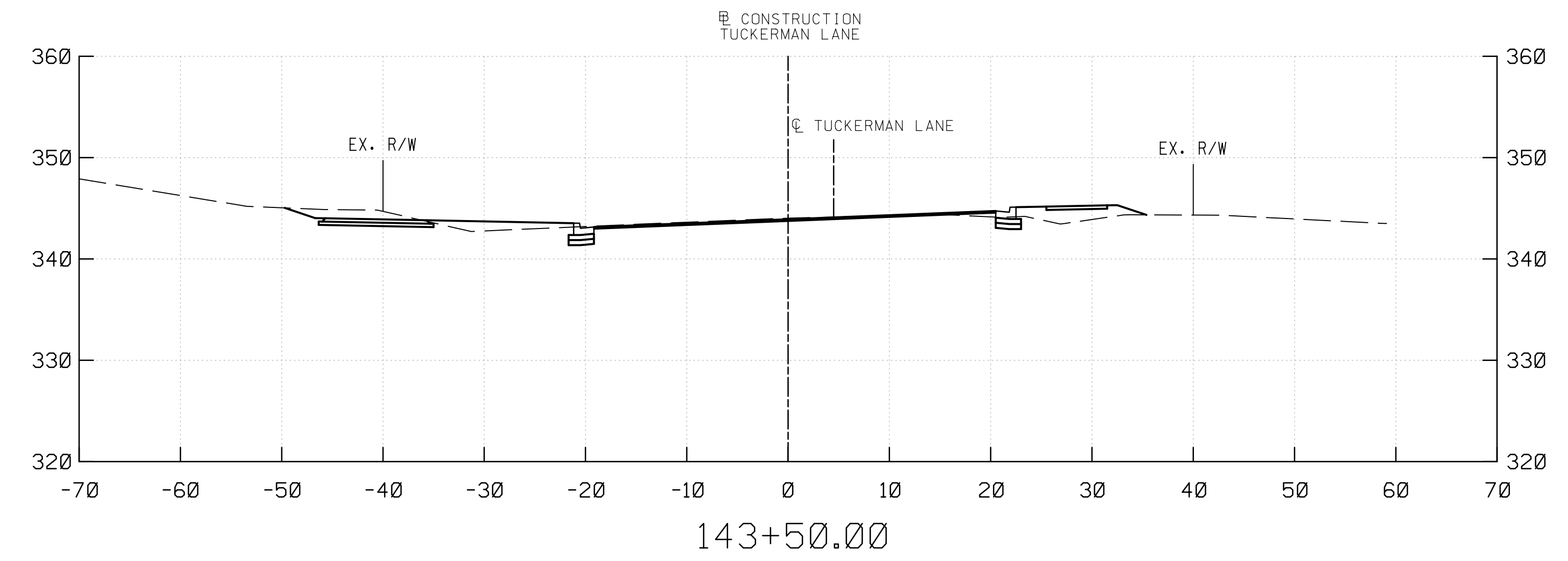
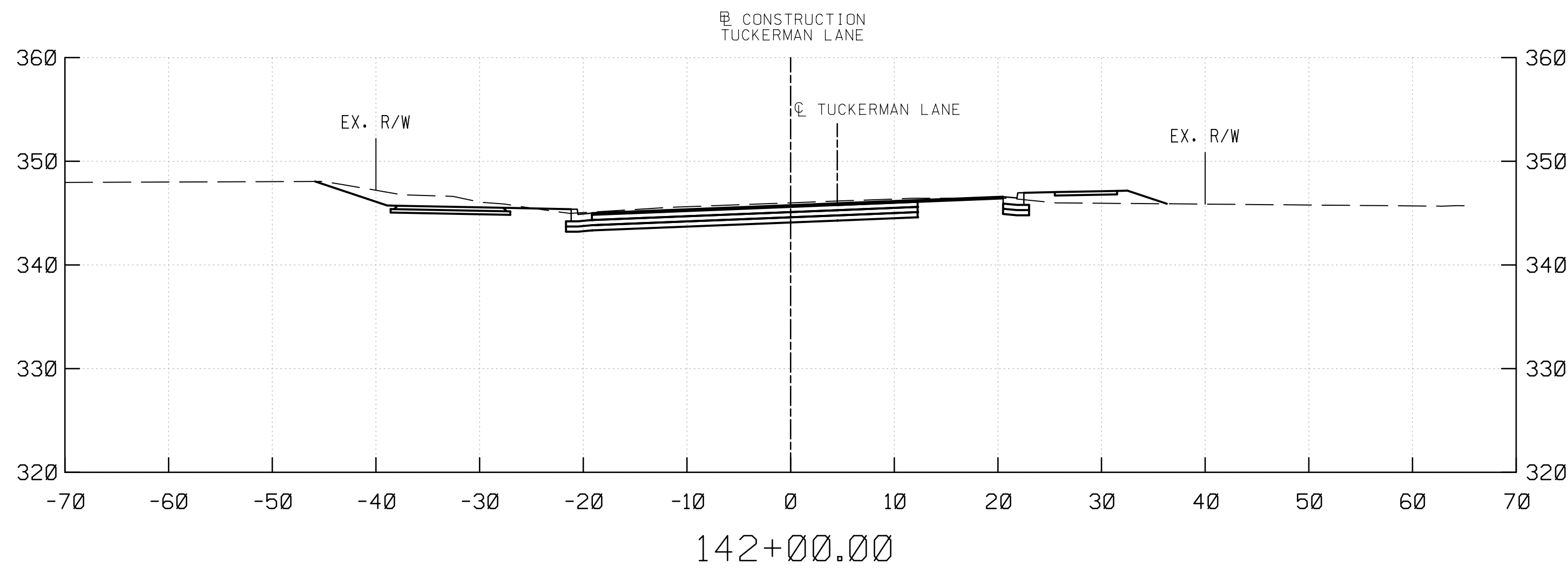
Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

PLAN SHEET CS-14
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 138+00 TO STA. 140+50
 SCALE: 1"= 10' 09/2021

Project No.: C.I.P. PR. # 509337 SHEET 149 of 171



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL
 DATE: 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

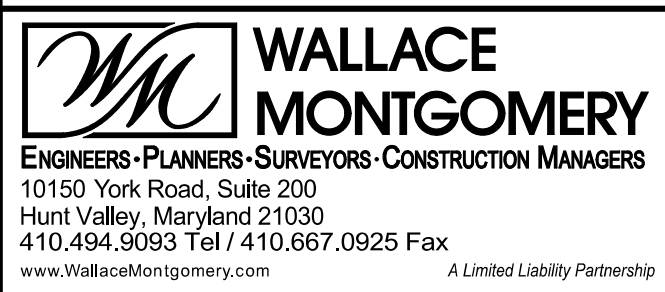
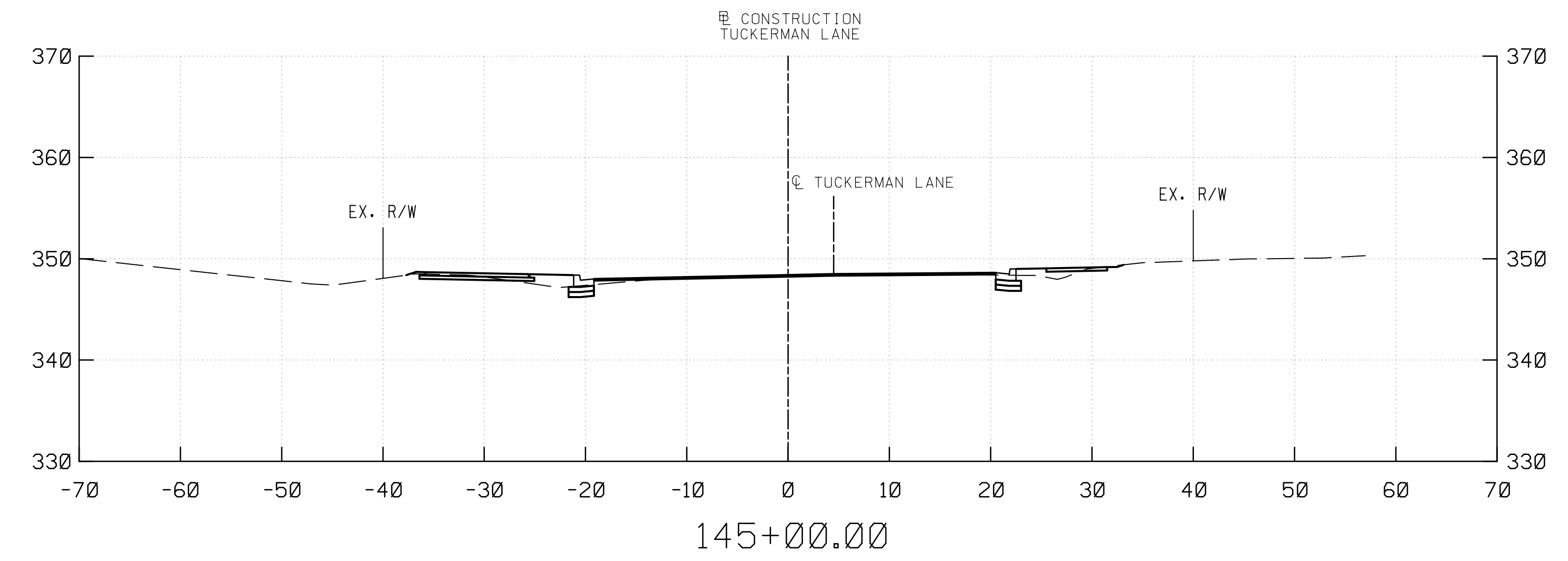
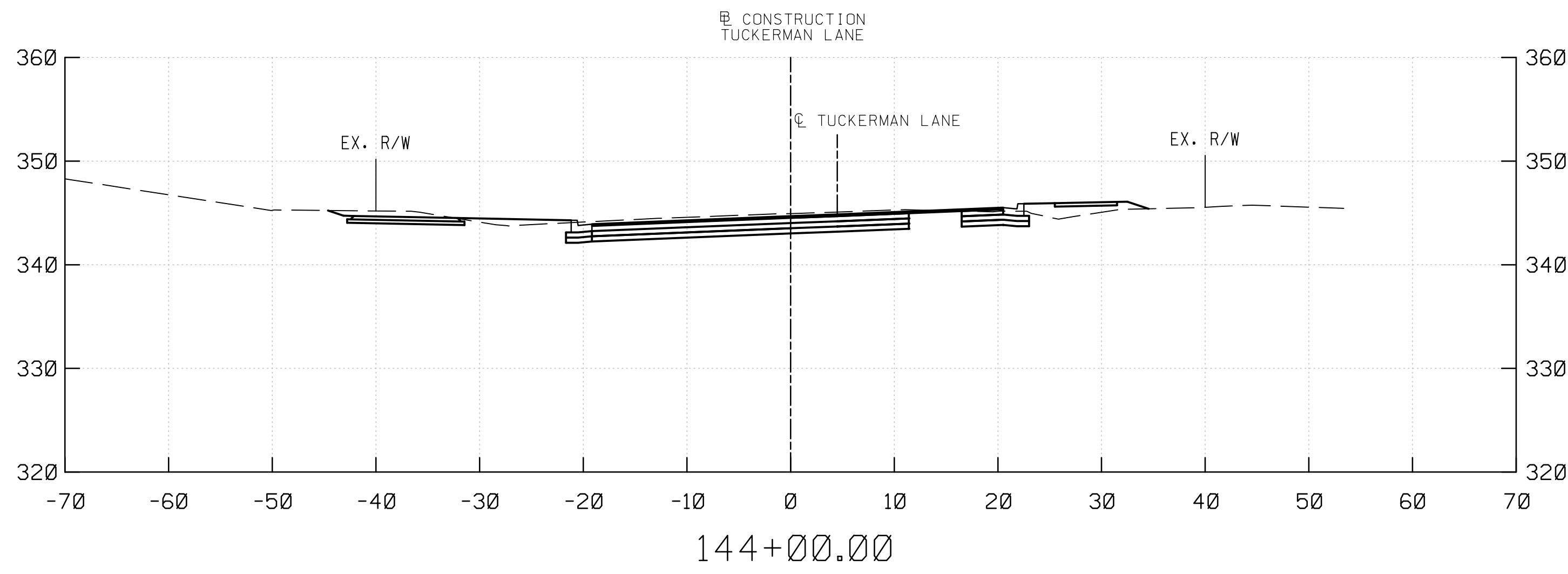
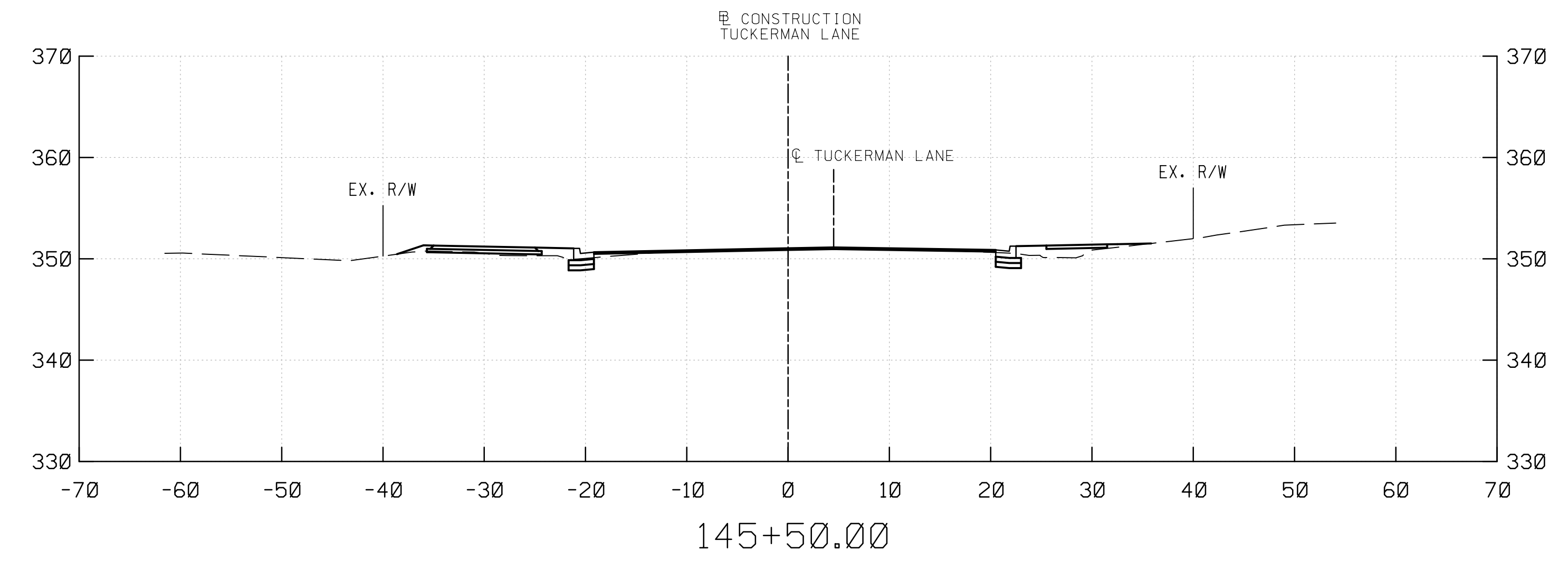
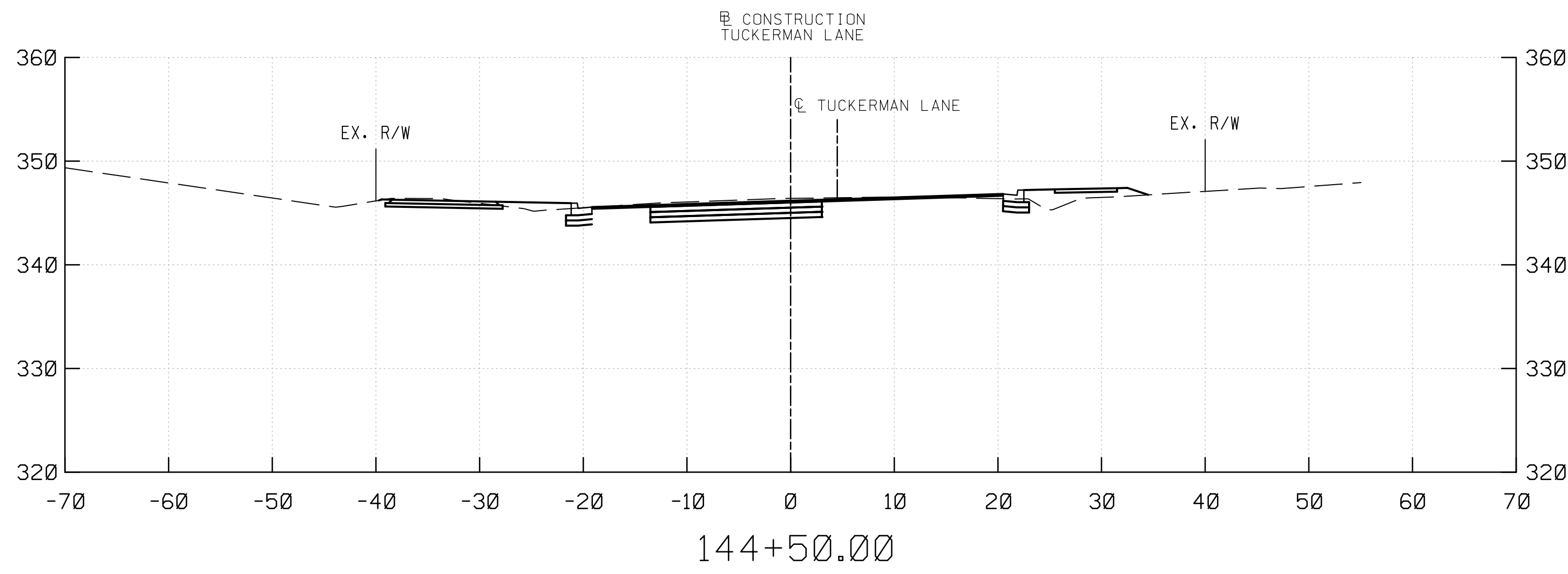
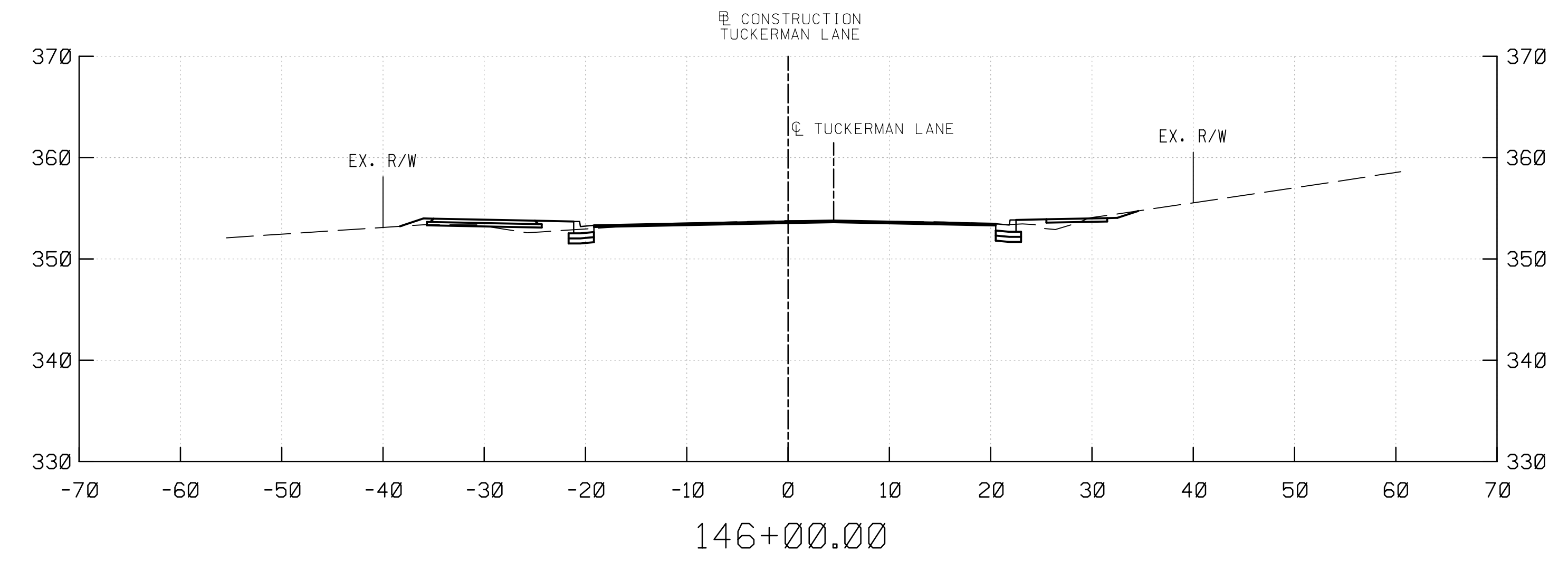
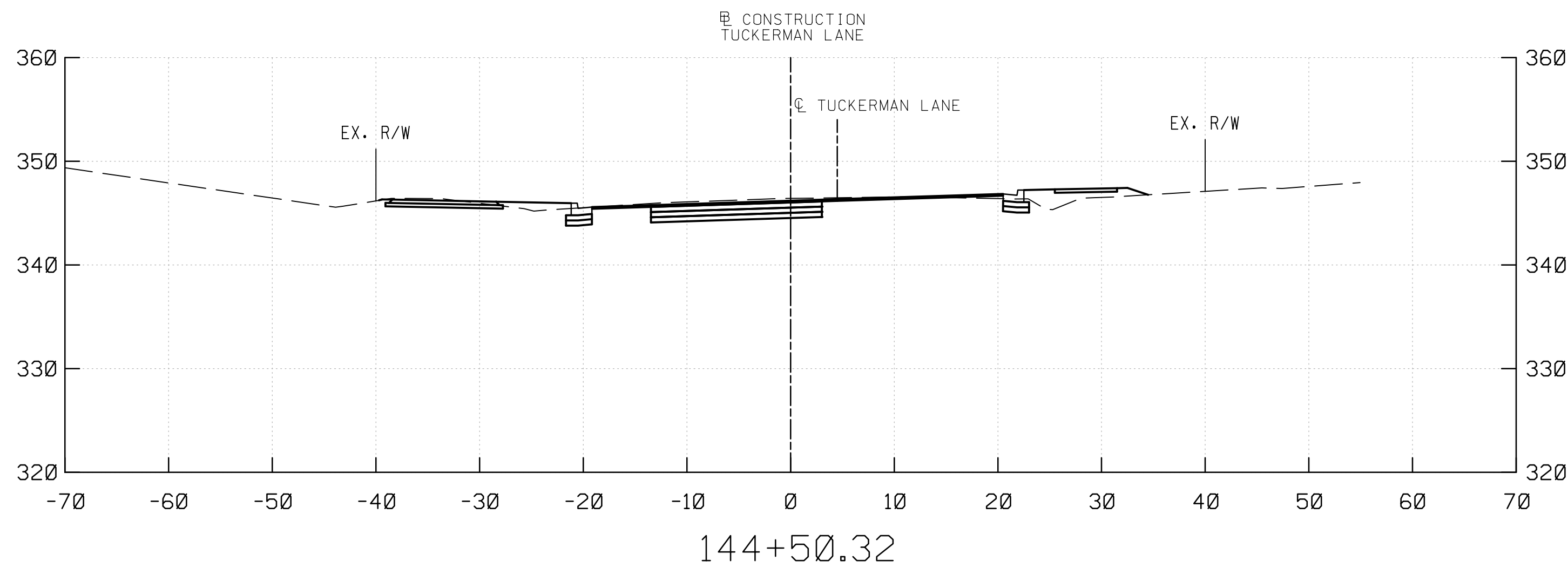
RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

PLAN SHEET CS-15
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 141+00 TO STA. 143+50
 SCALE: 1"= 10' 09/2021
 Project No.: C.I.P. PR. # 509337 SHEET 150 of 171



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL
 DATE : 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

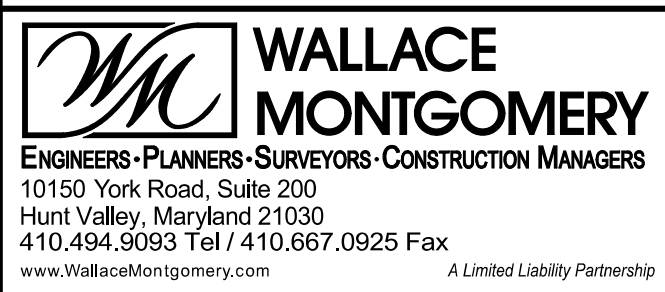
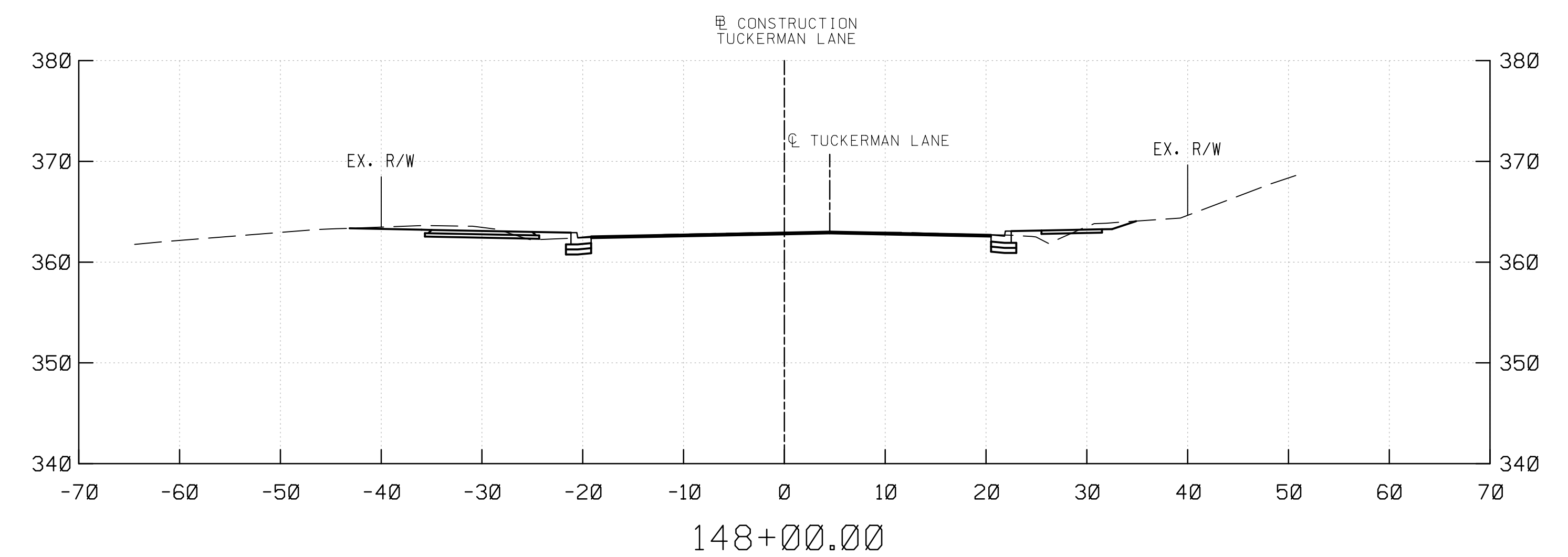
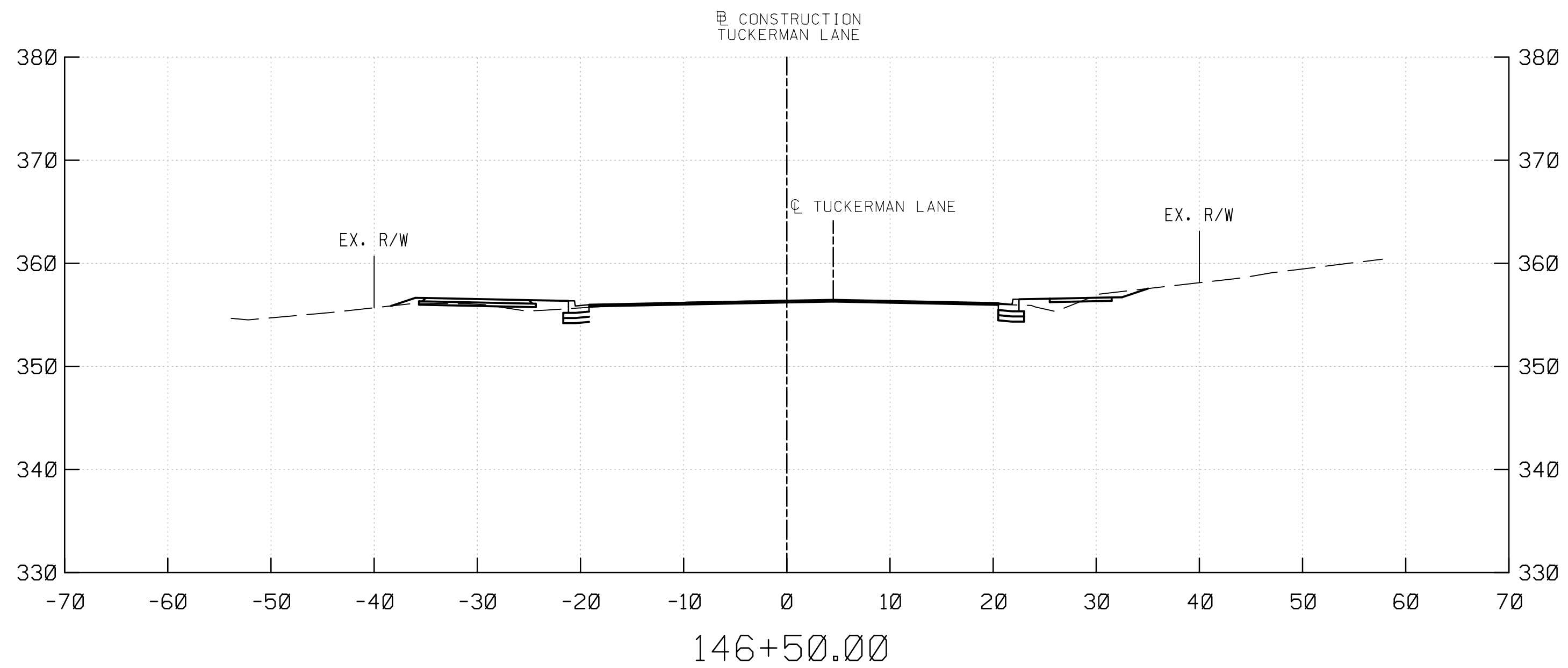
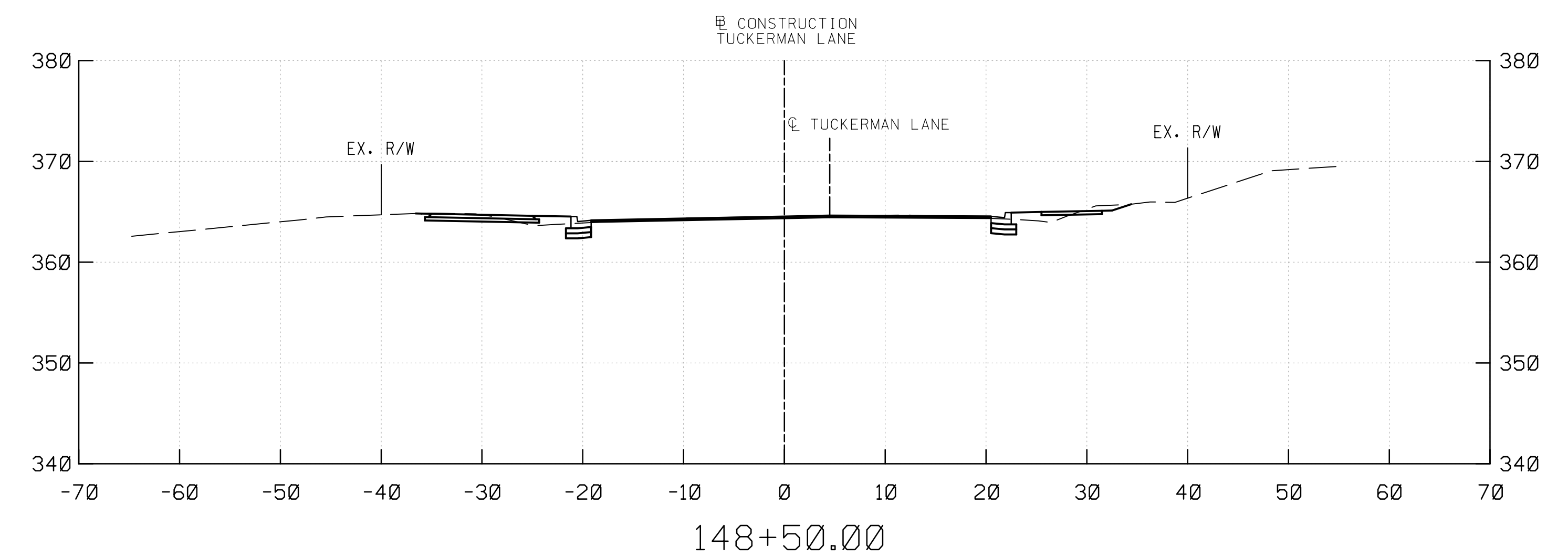
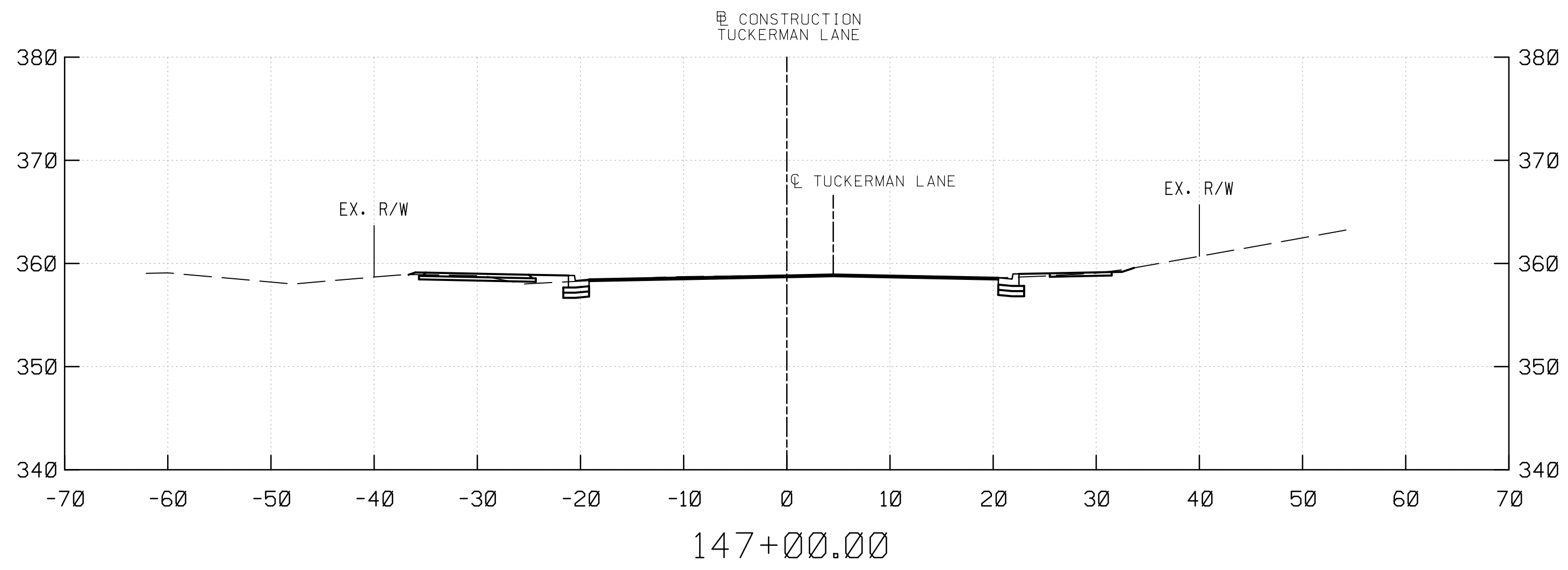
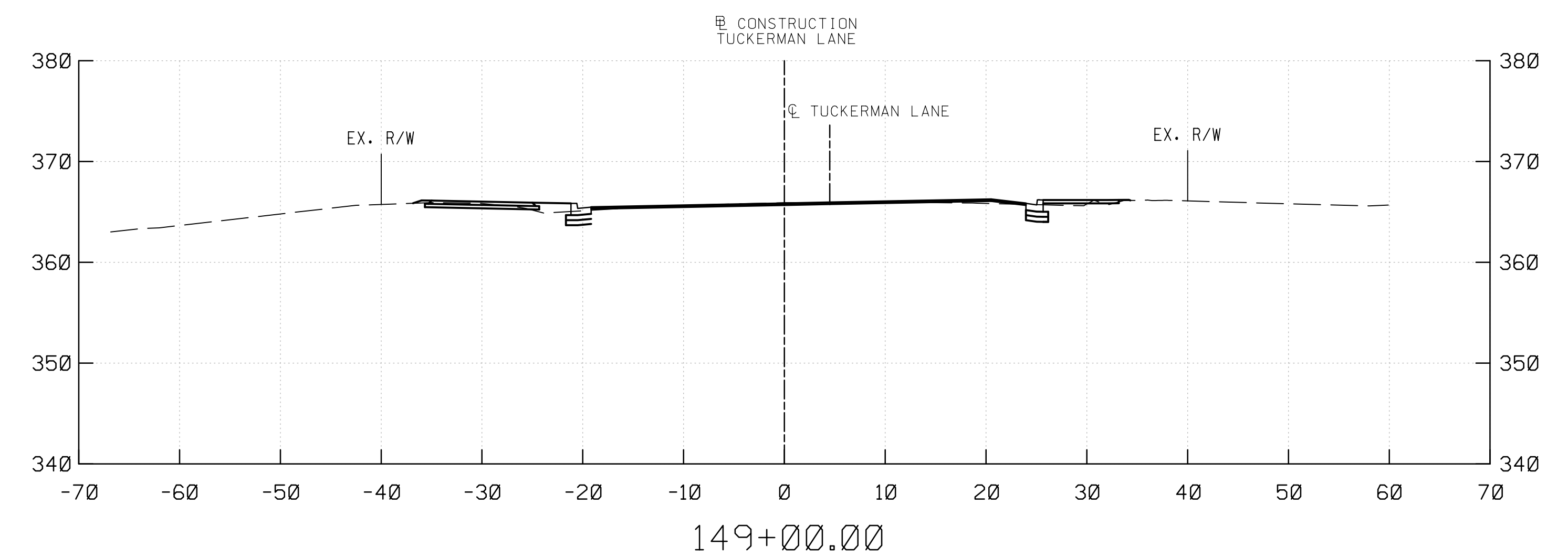
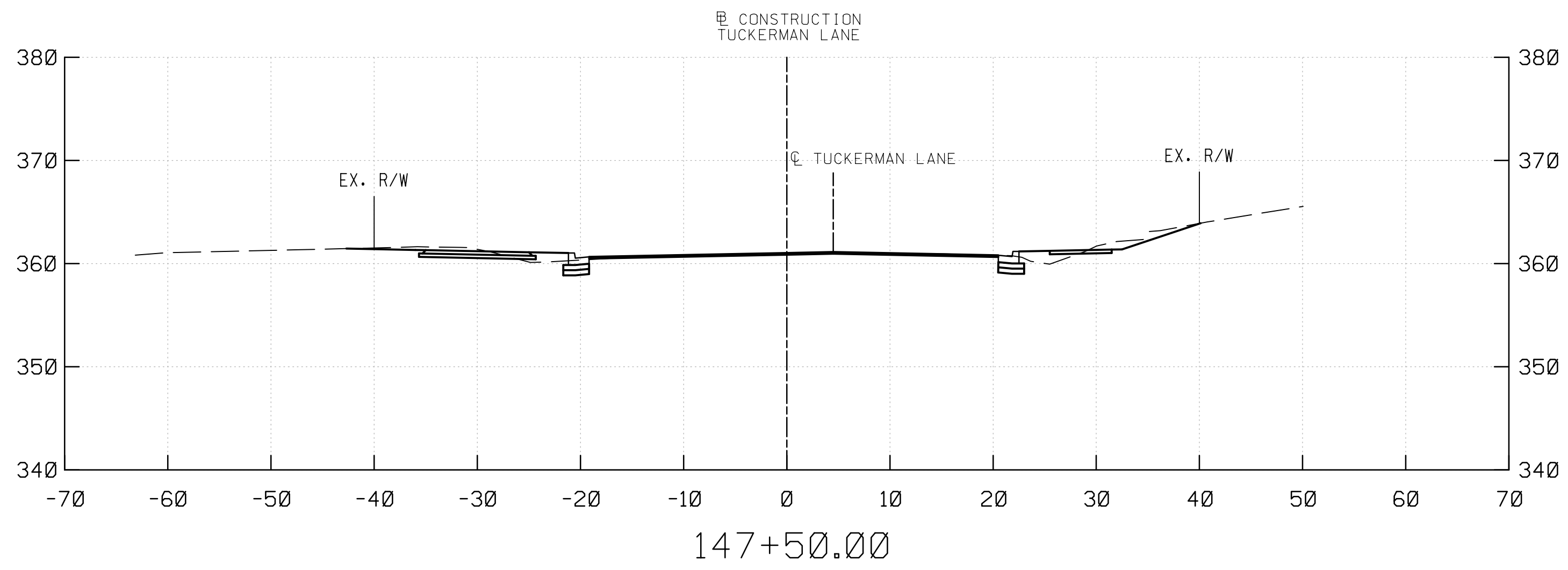
RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by : _____ Drawn by : _____ Checked by : _____

PLAN SHEET CS-16
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 144+00 TO STA. 146+00
 SCALE : 1" = 10' 09/2021
 Project No. : C.I.P. PR. # 509337 SHEET 151 of 171



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD NO-31487 EXP-03/18/2023

SEAL

DATE : 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

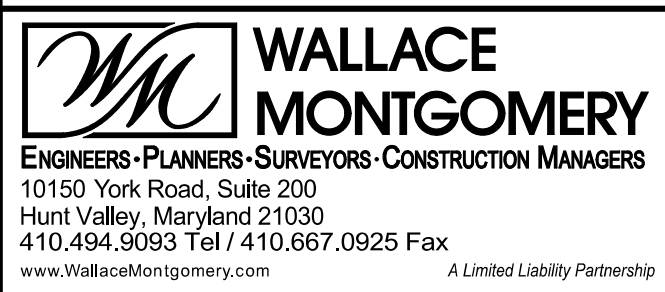
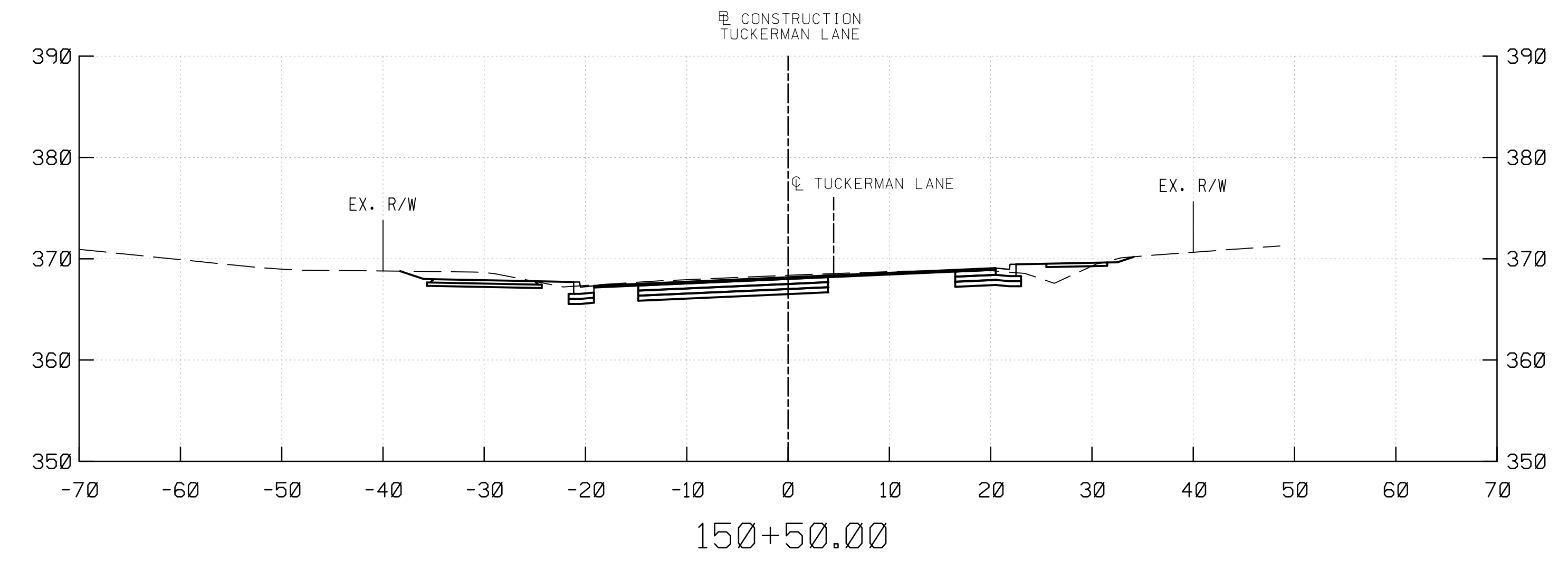
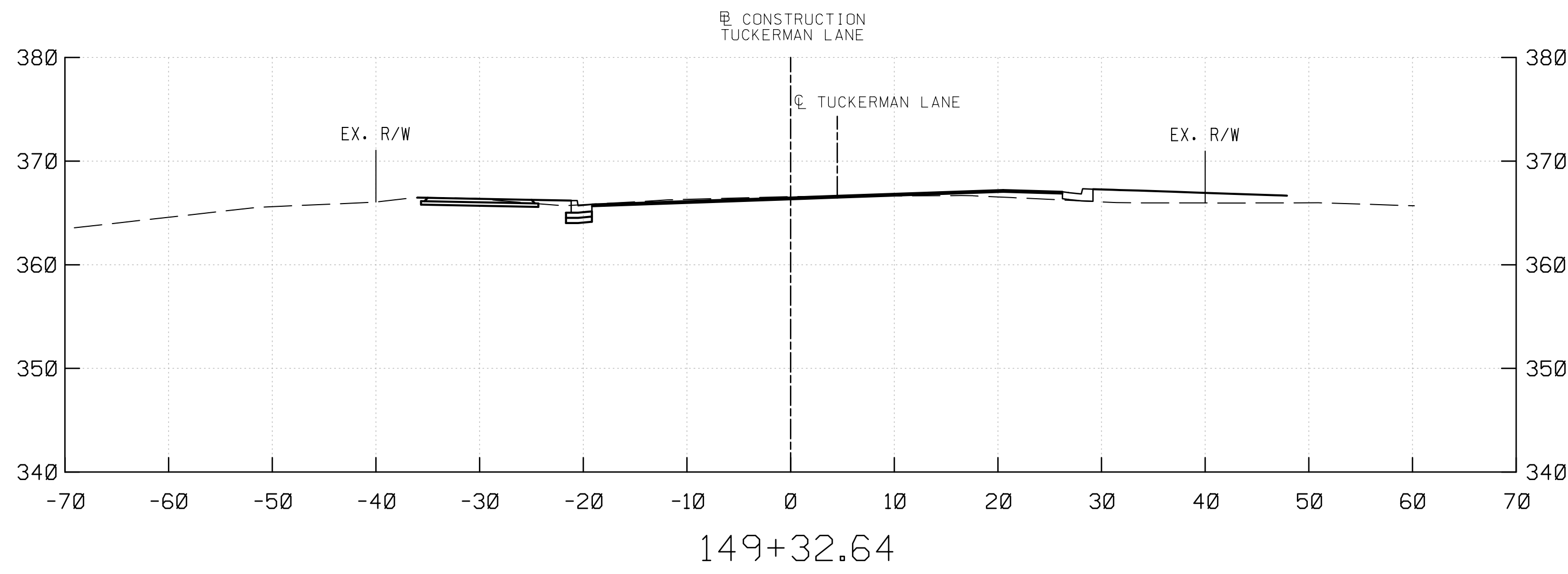
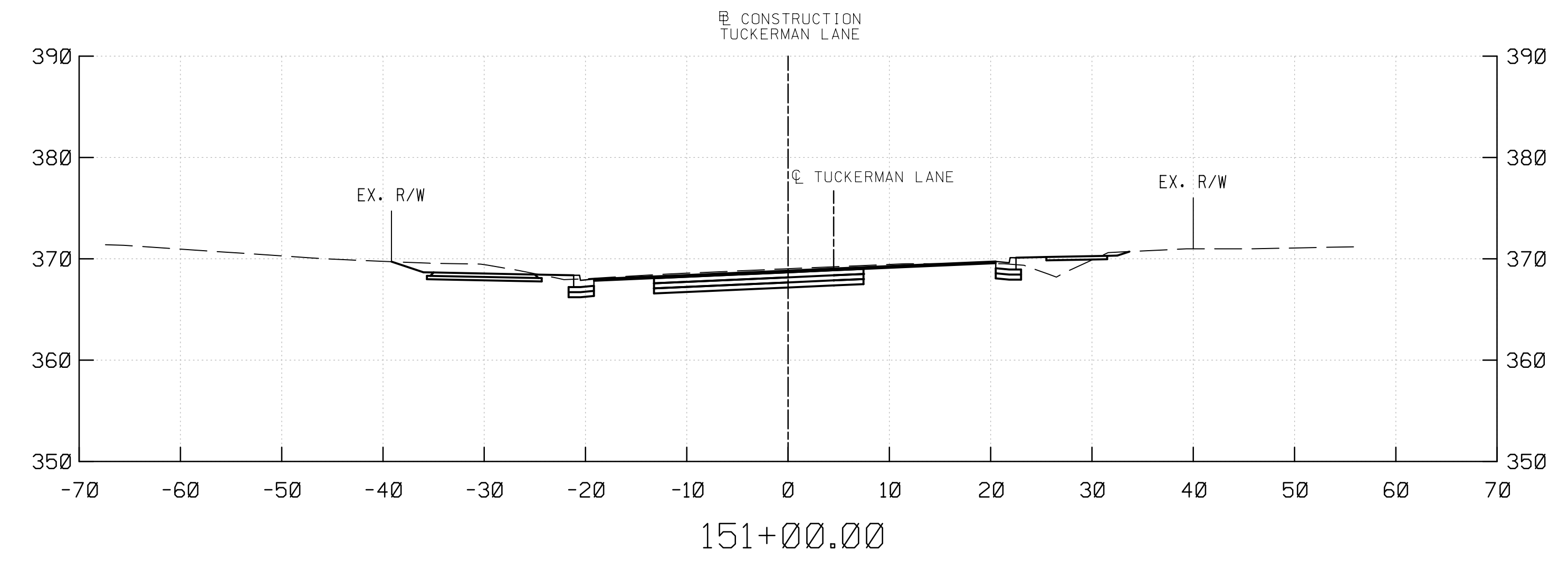
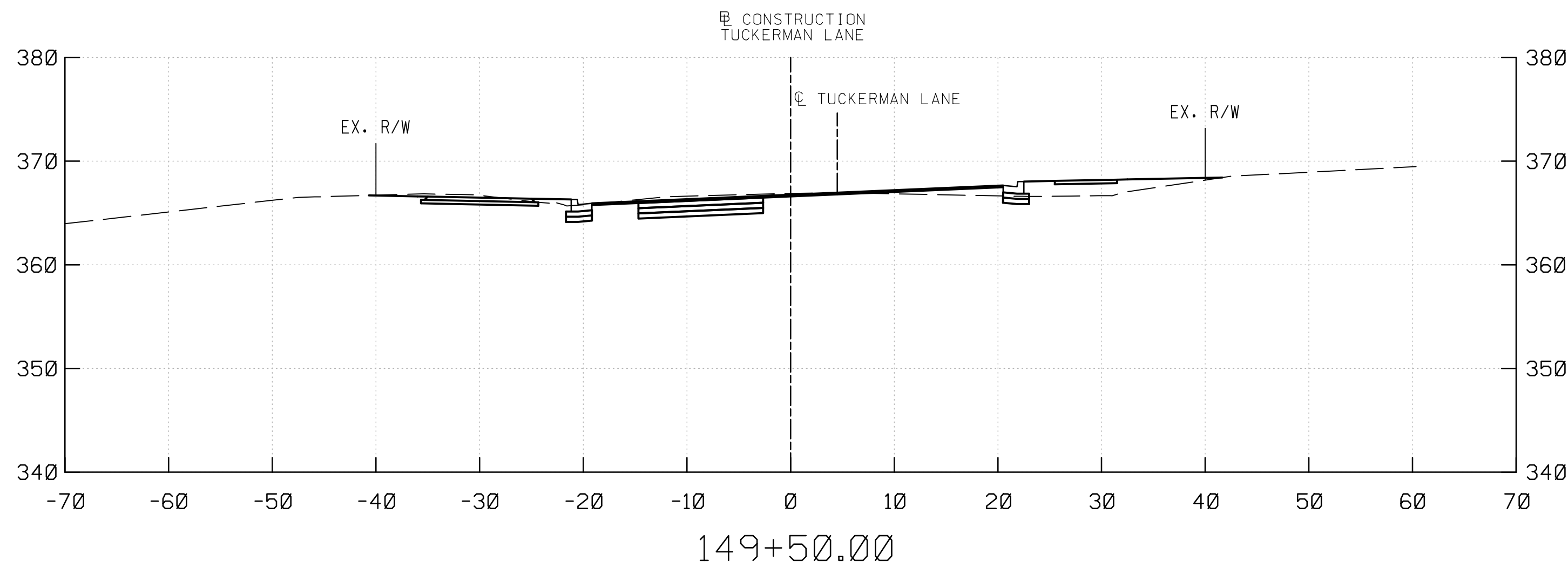
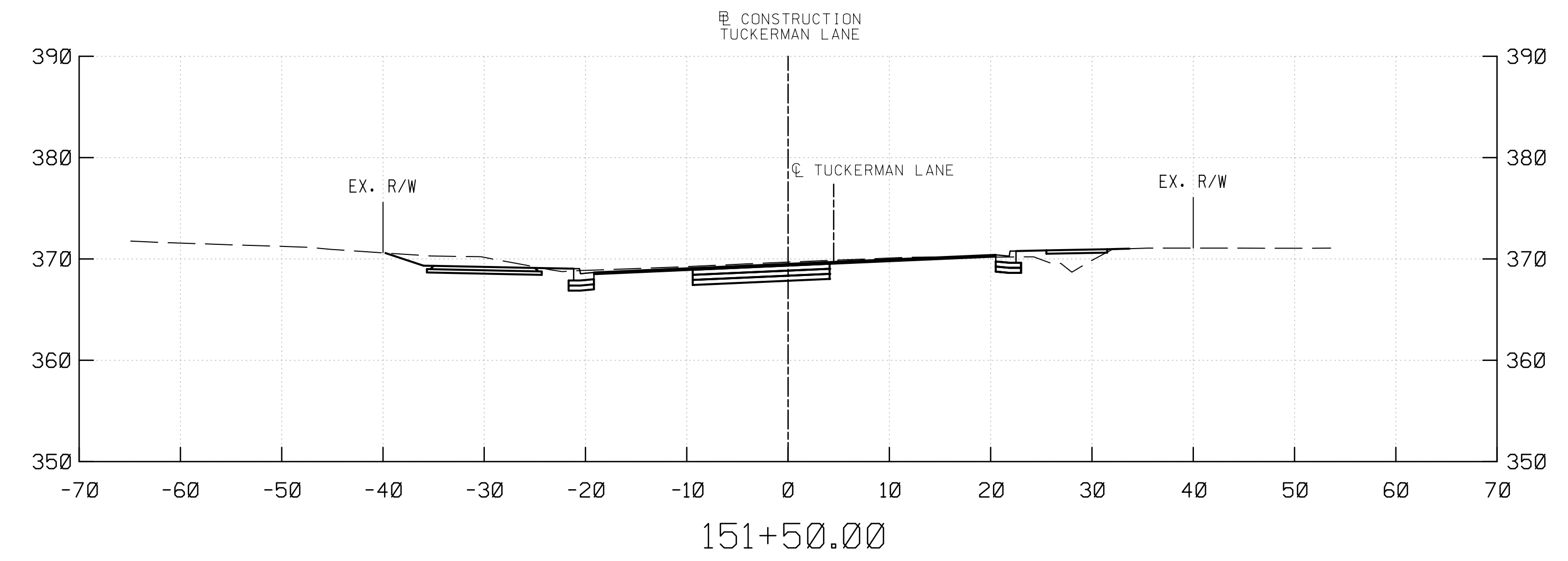
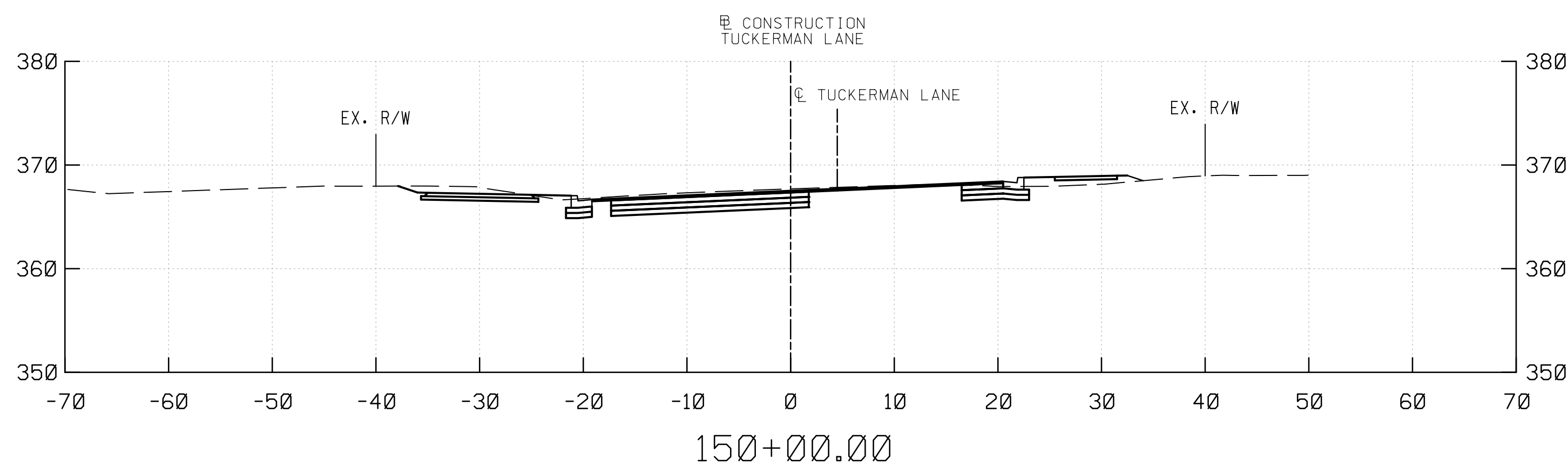
Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by : _____ Drawn by : _____ Checked by : _____

PLAN SHEET CS-17
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 146+50 TO STA. 149+00
 SCALE : 1"= 10' 09/2021

Project No. : C.I.P. PR. # 509337 SHEET 152 of 171



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD NO-31487 EXP-03/18/2023

SEAL
 DATE: 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

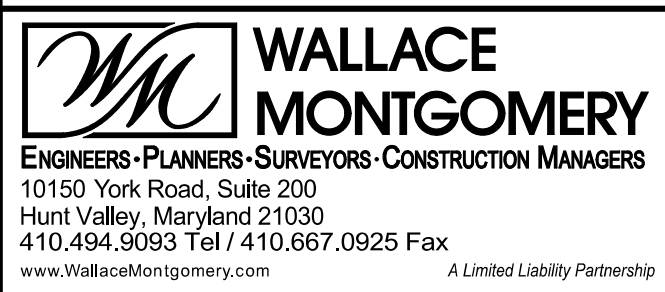
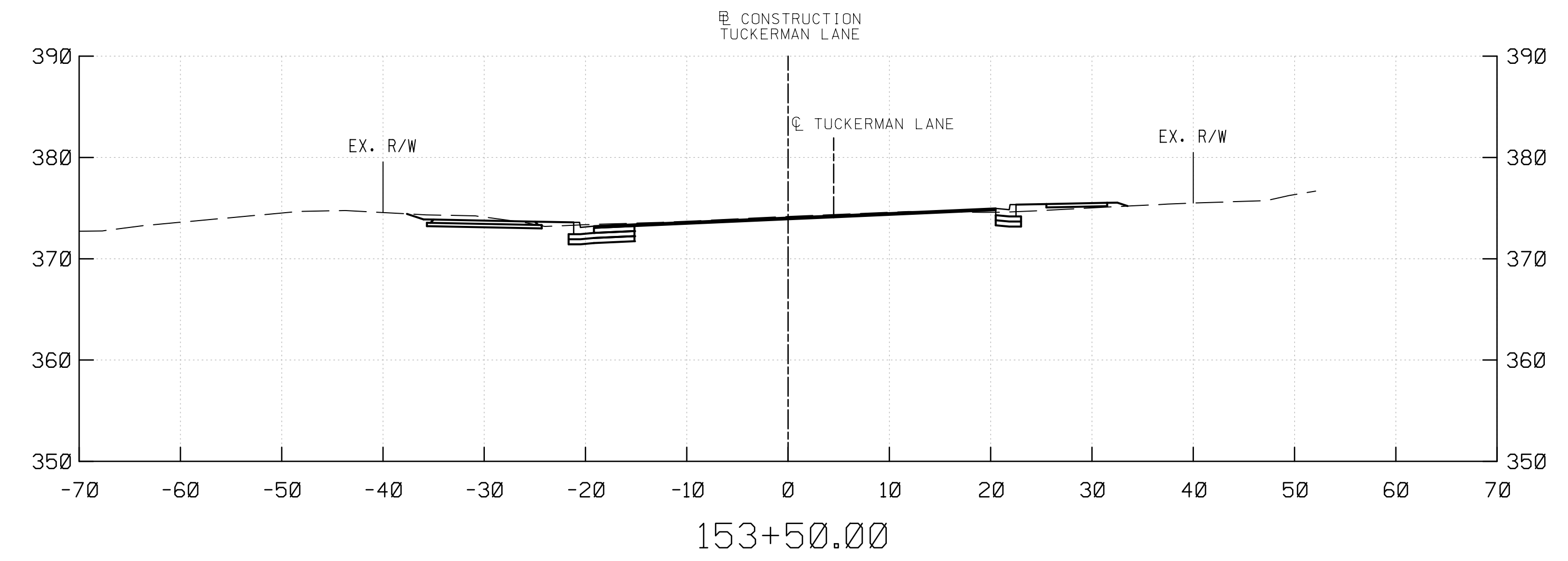
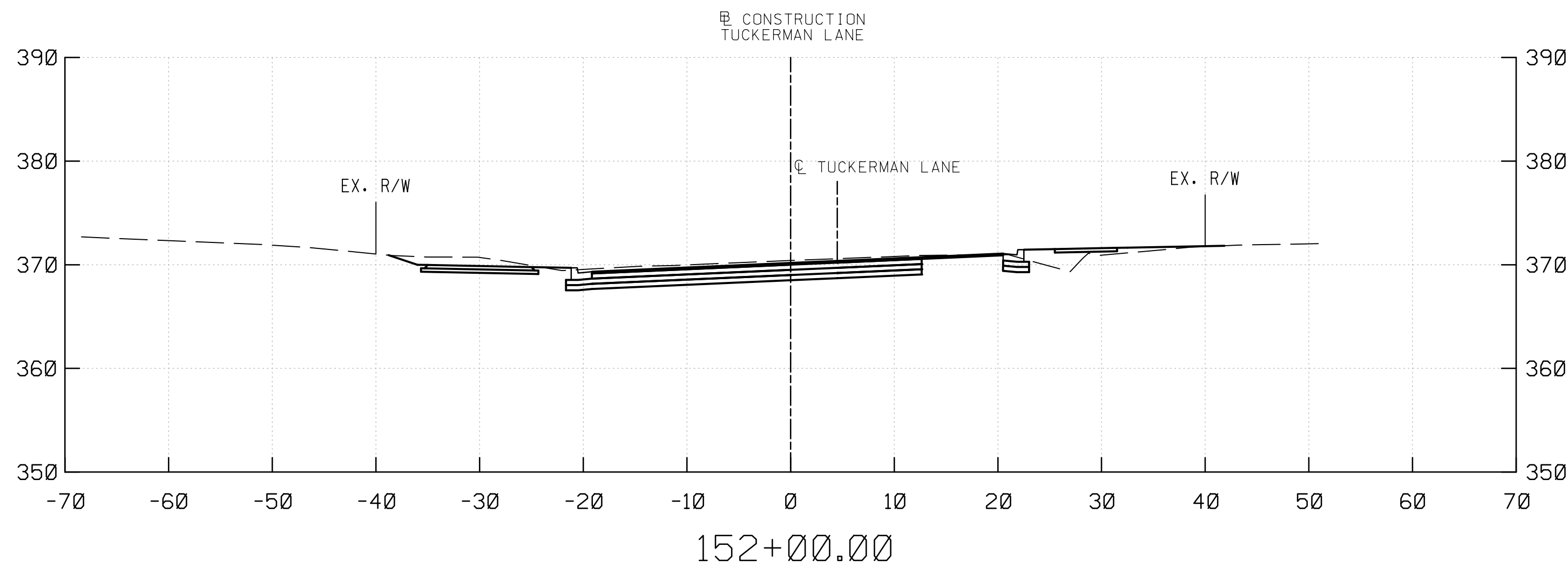
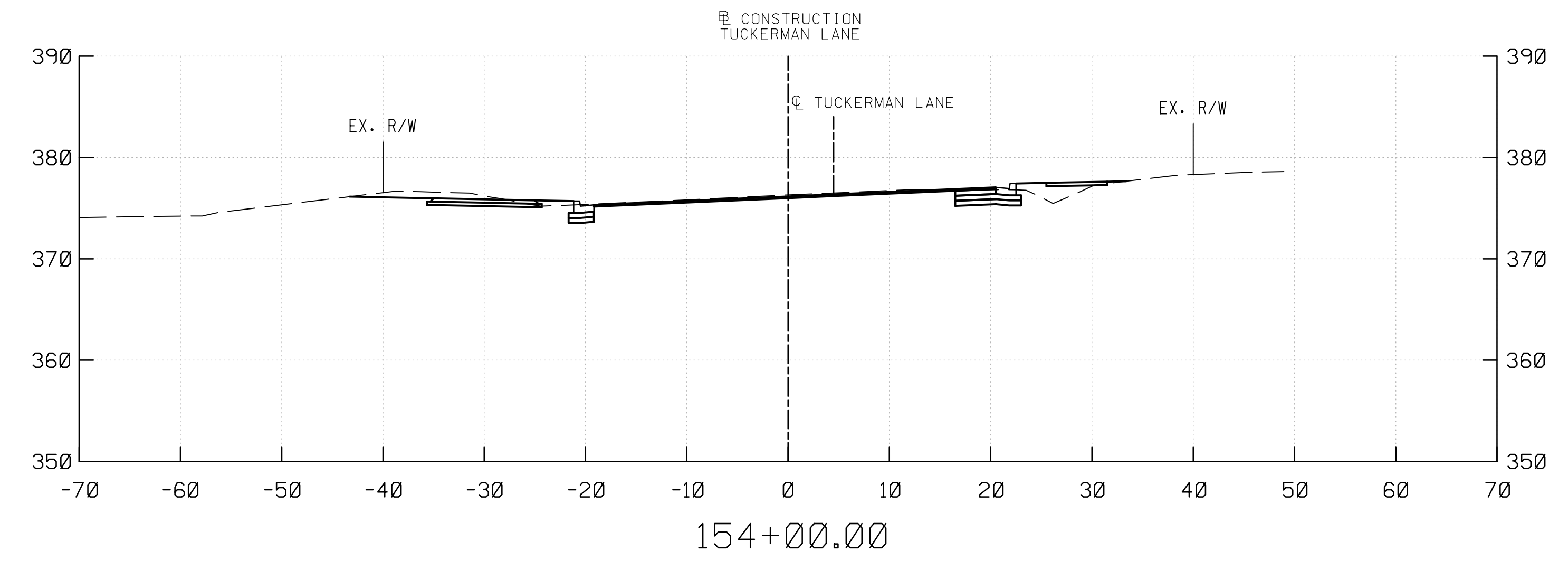
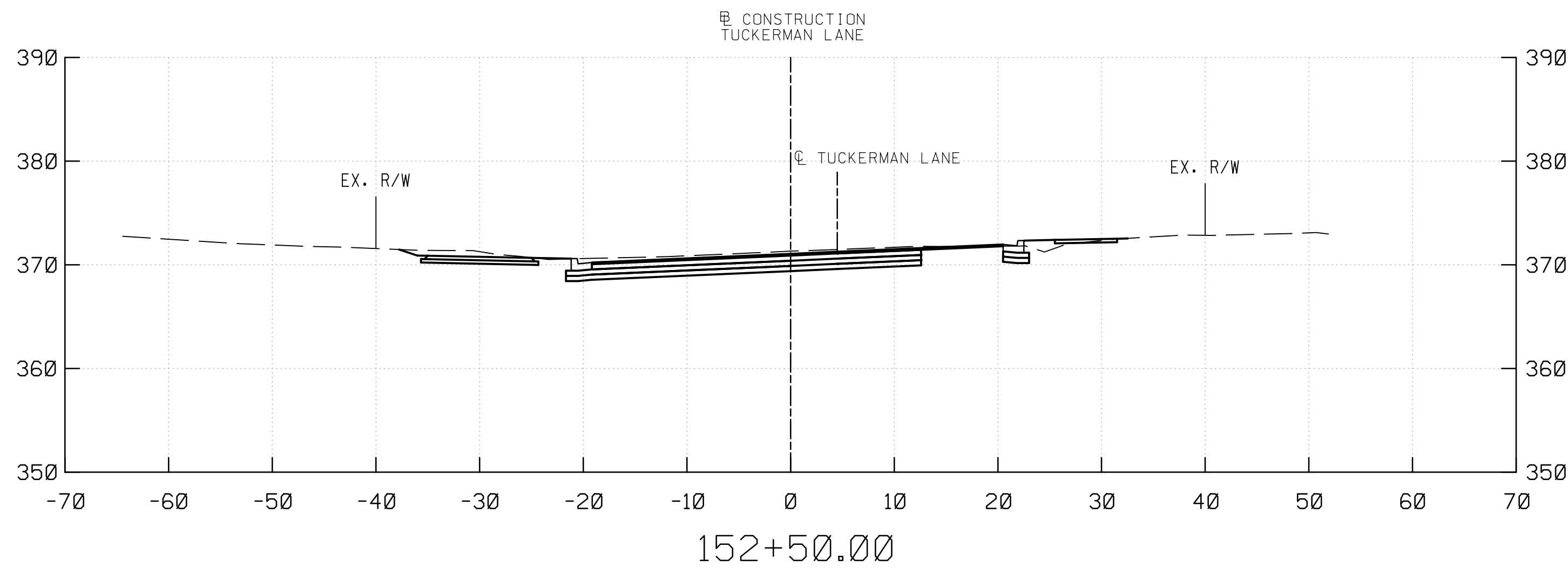
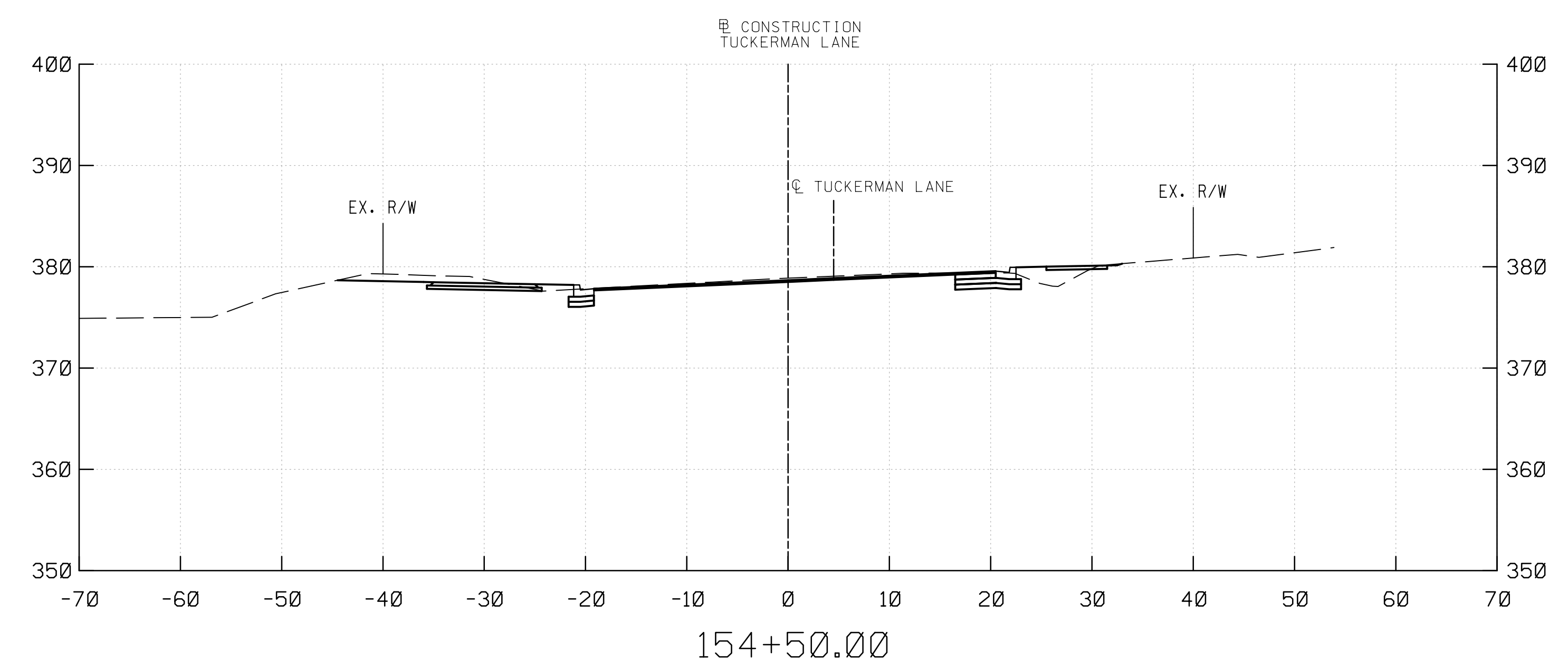
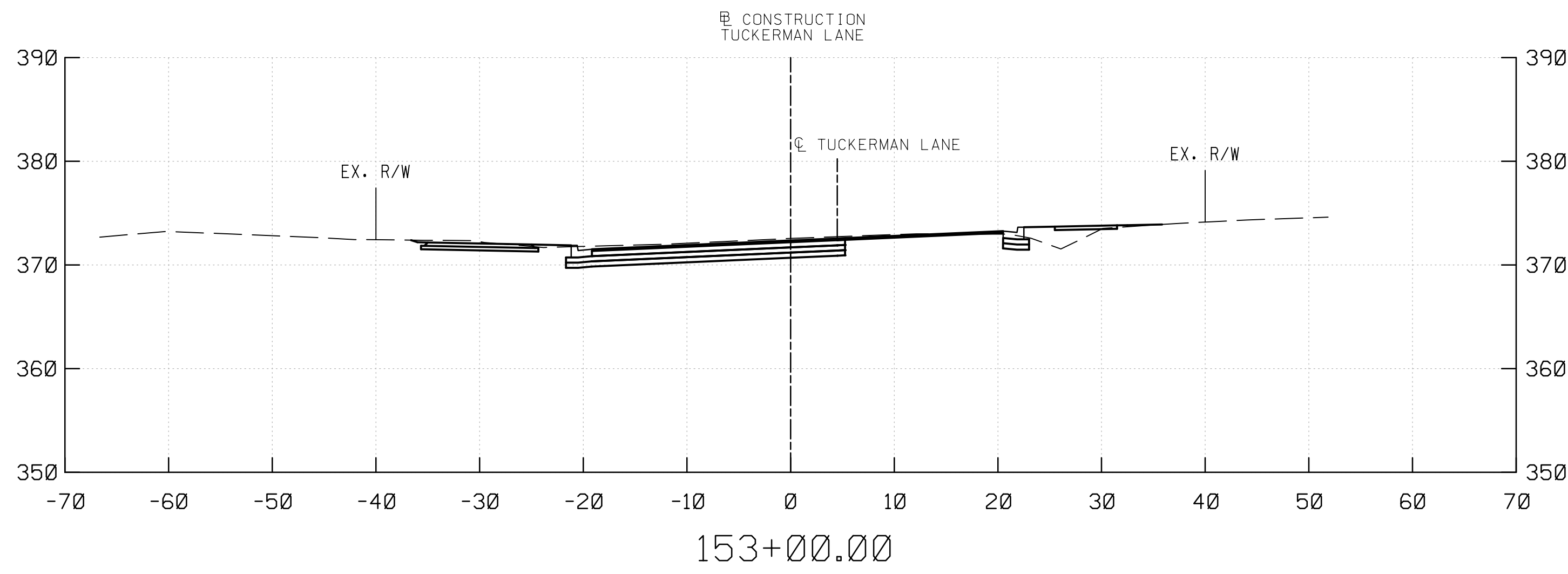
RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

PLAN SHEET CS-18
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 149+32.64 TO STA. 151+00
 SCALE: 1" = 10'
 Project No.: C.I.P. PR. # 509337 SHEET 153 of 171



PROFESSIONAL CERTIFICATION
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 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL
 DATE: 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

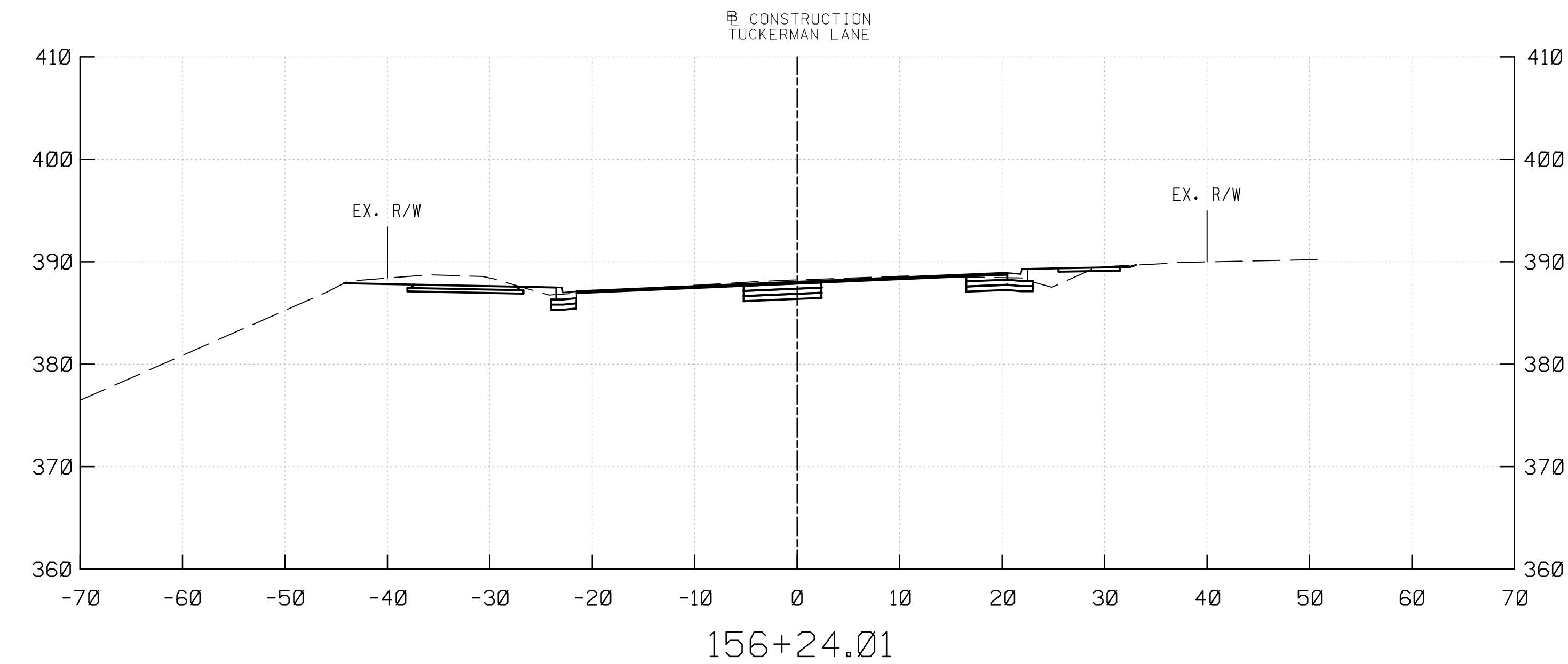
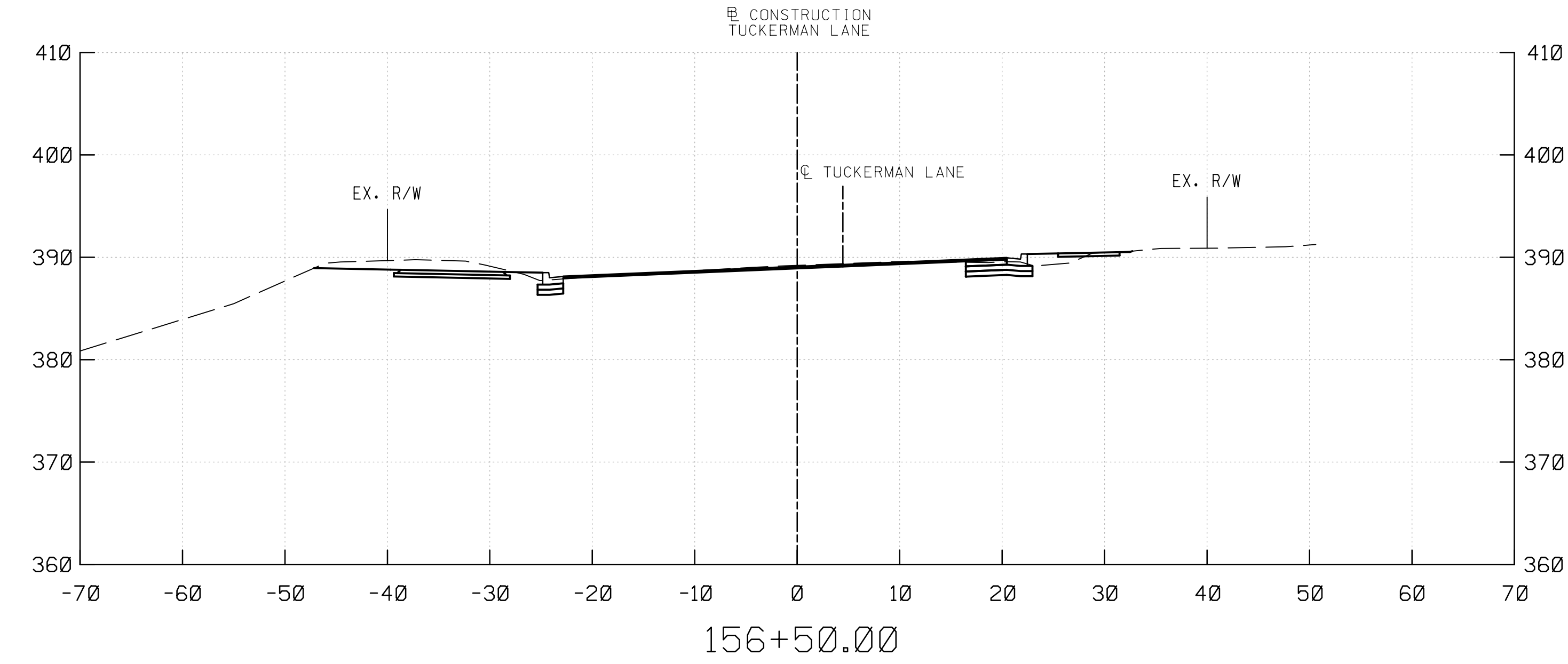
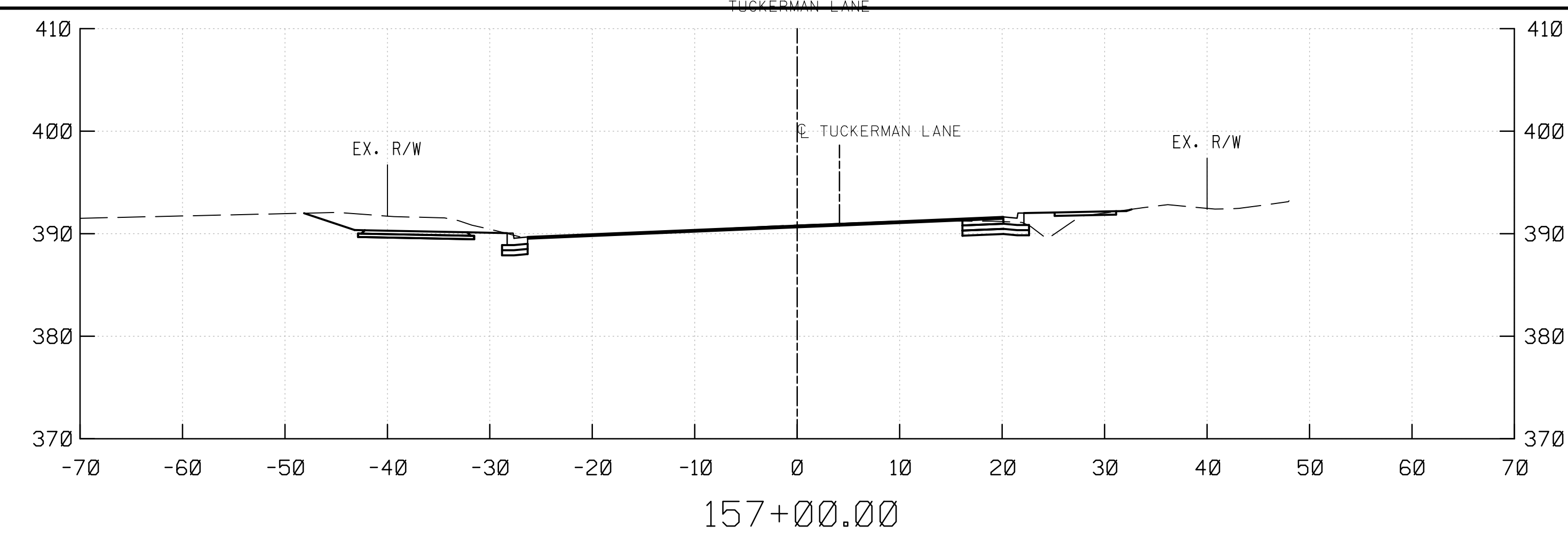
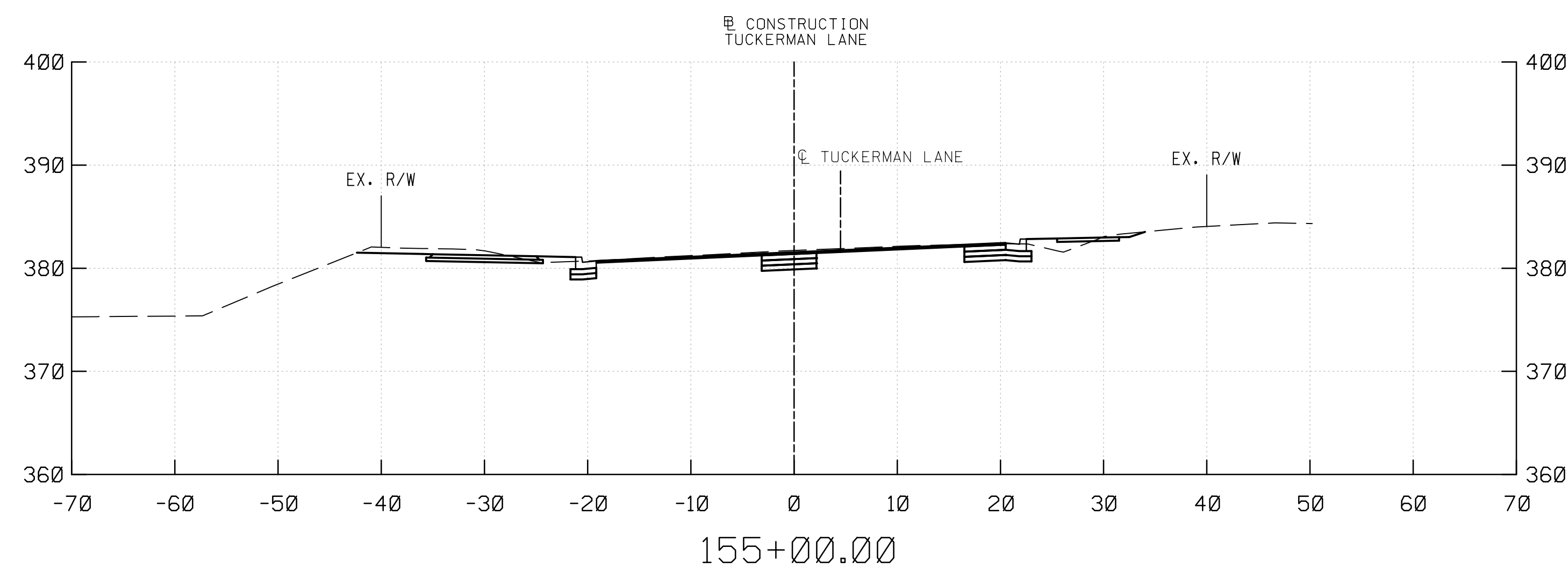
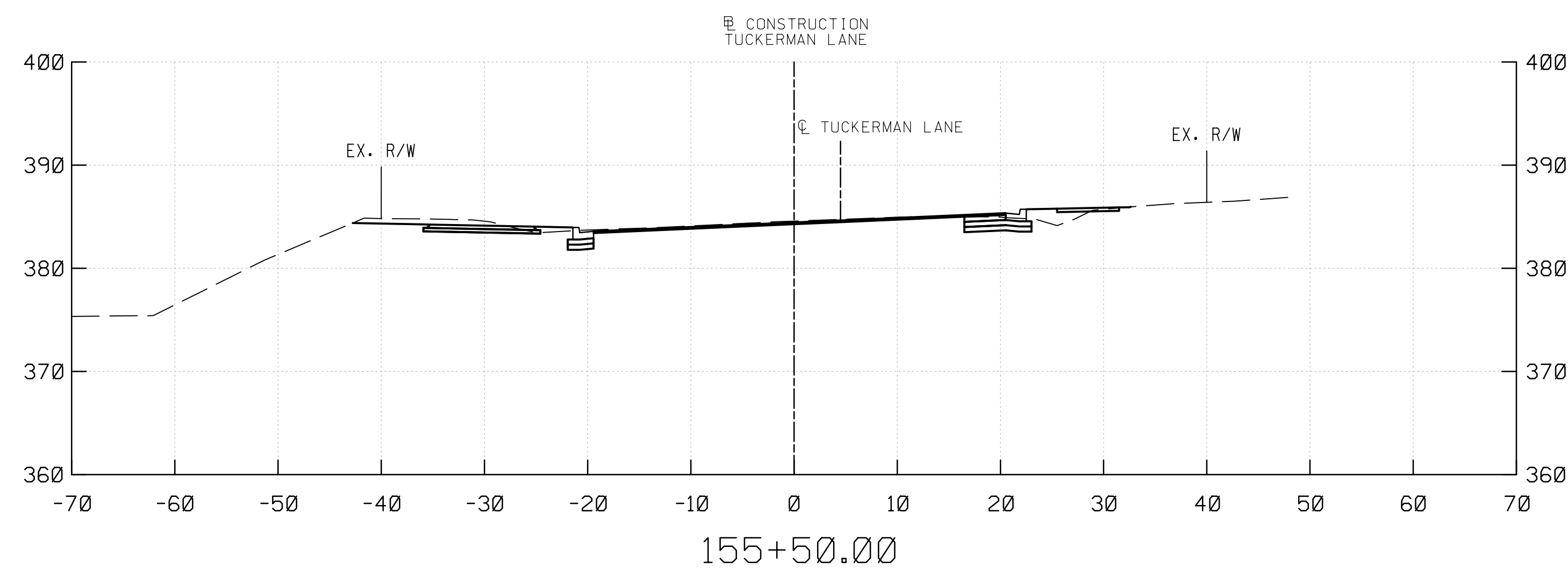
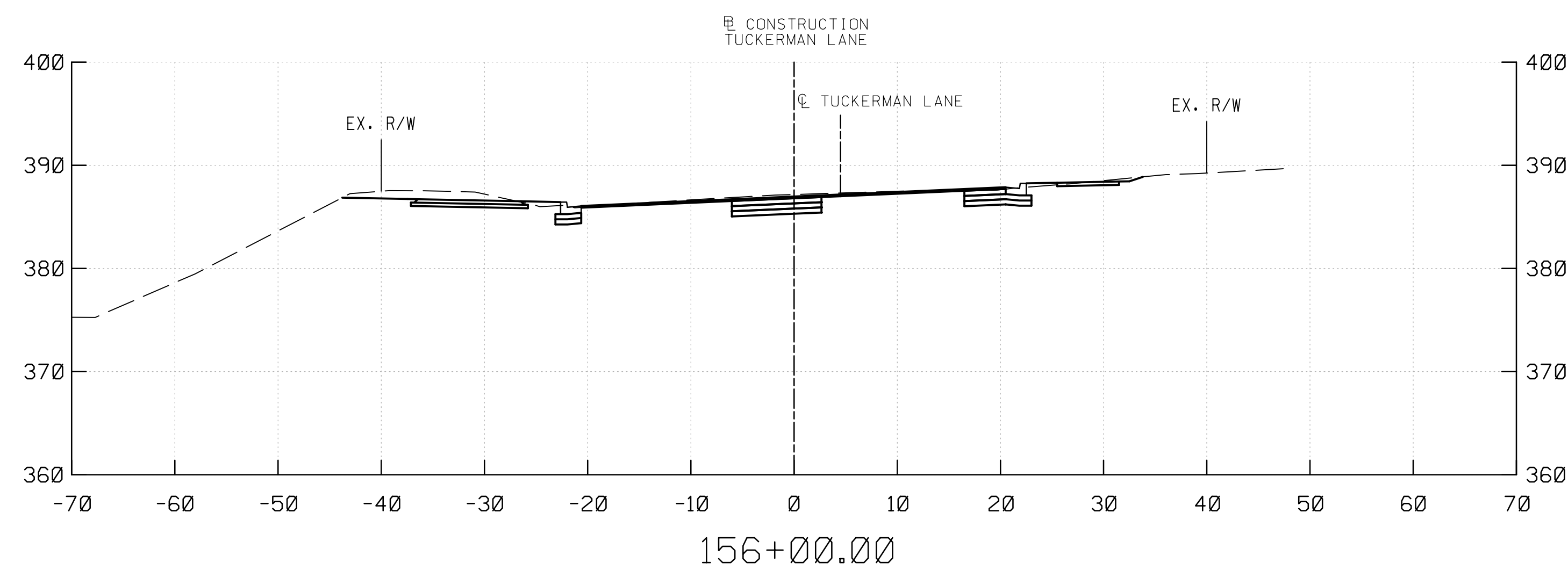
RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

PLAN SHEET CS-19
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 152+00 TO STA. 154+50
 SCALE: 1"= 10'
 Project No.: C.I.P. PR. # 509337 SHEET 154 of 171



PROFESSIONAL CERTIFICATION
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 MARK J. BODMANN MD NO-31487 EXP-03/18/2023

SEAL
 DATE: 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

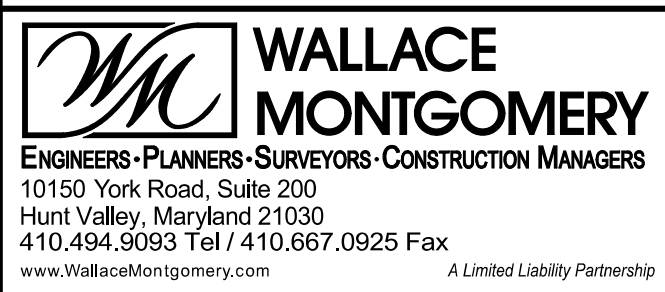
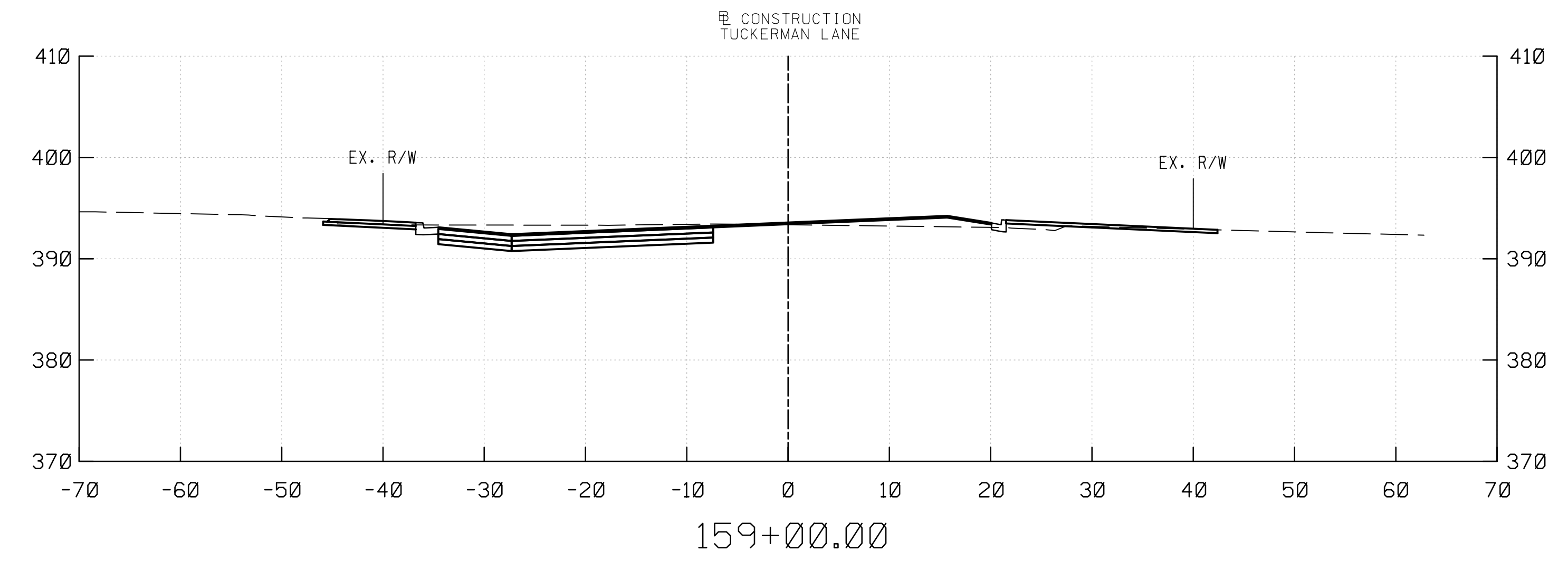
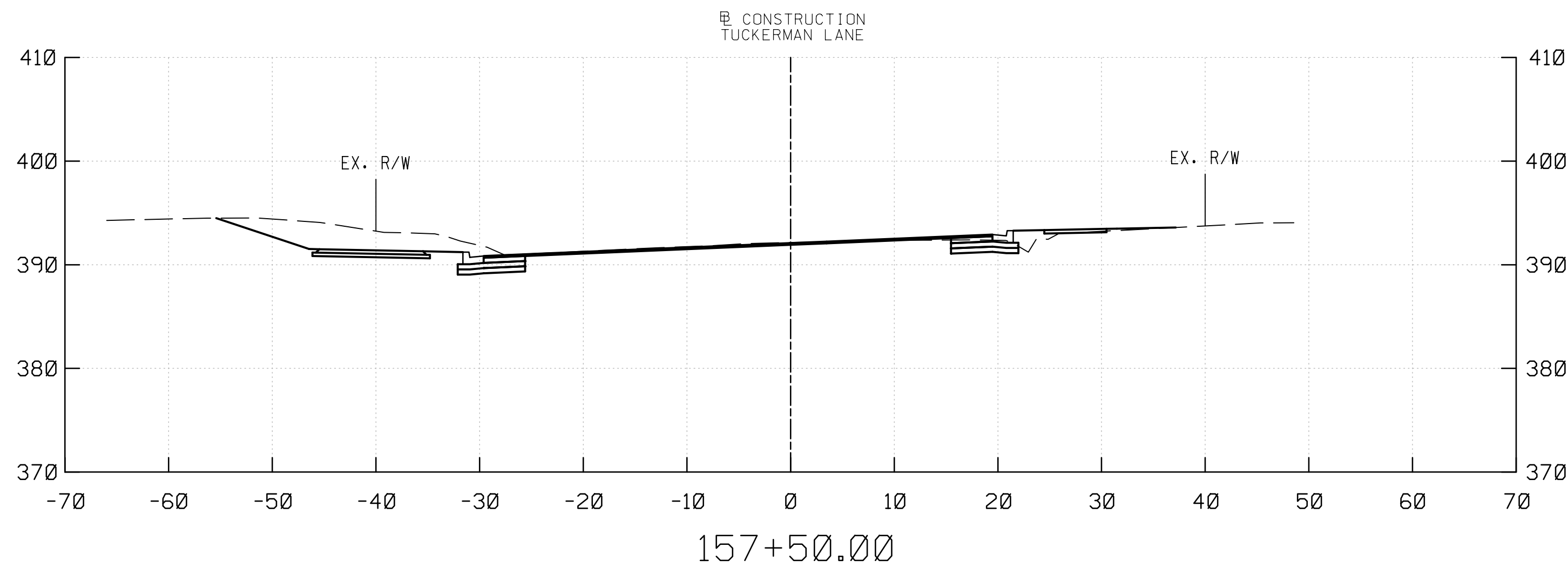
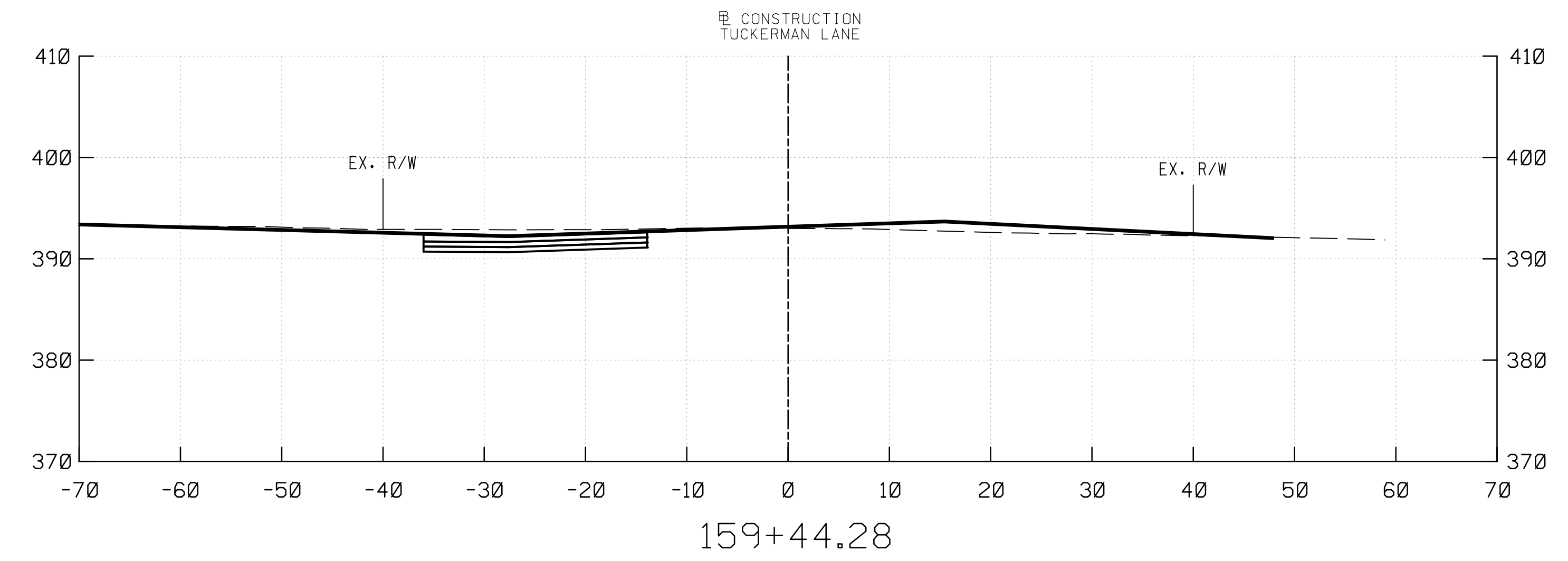
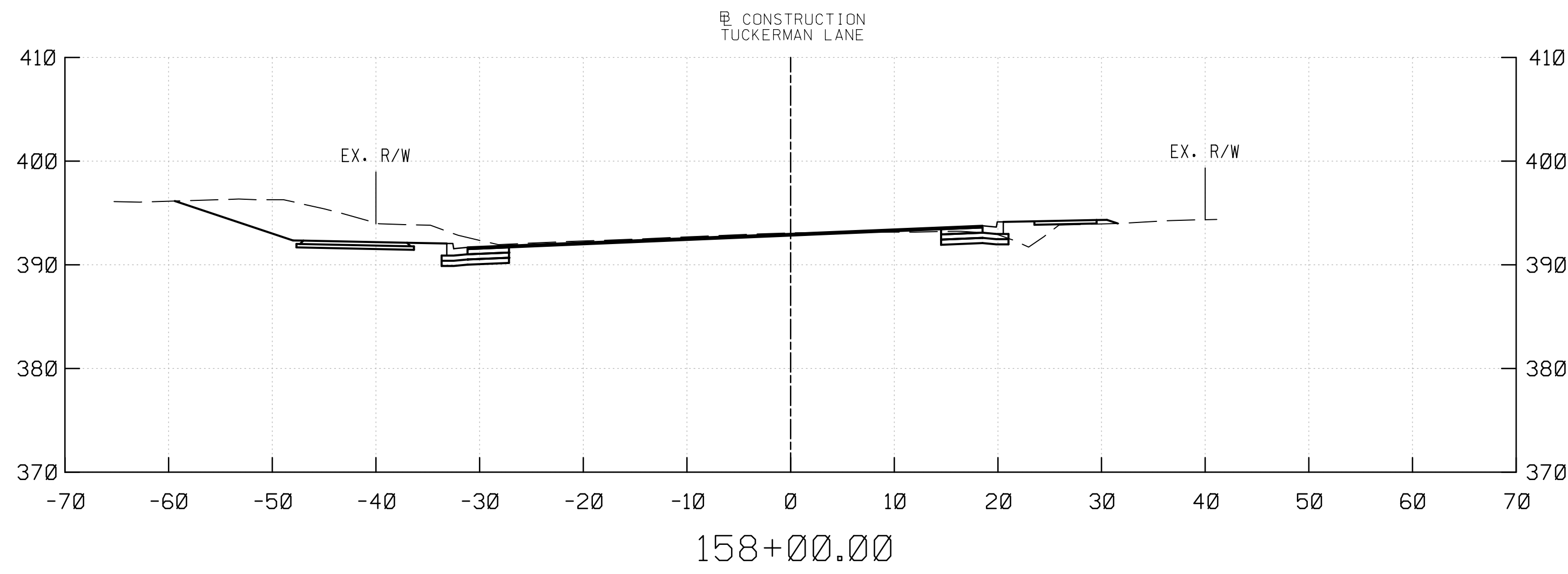
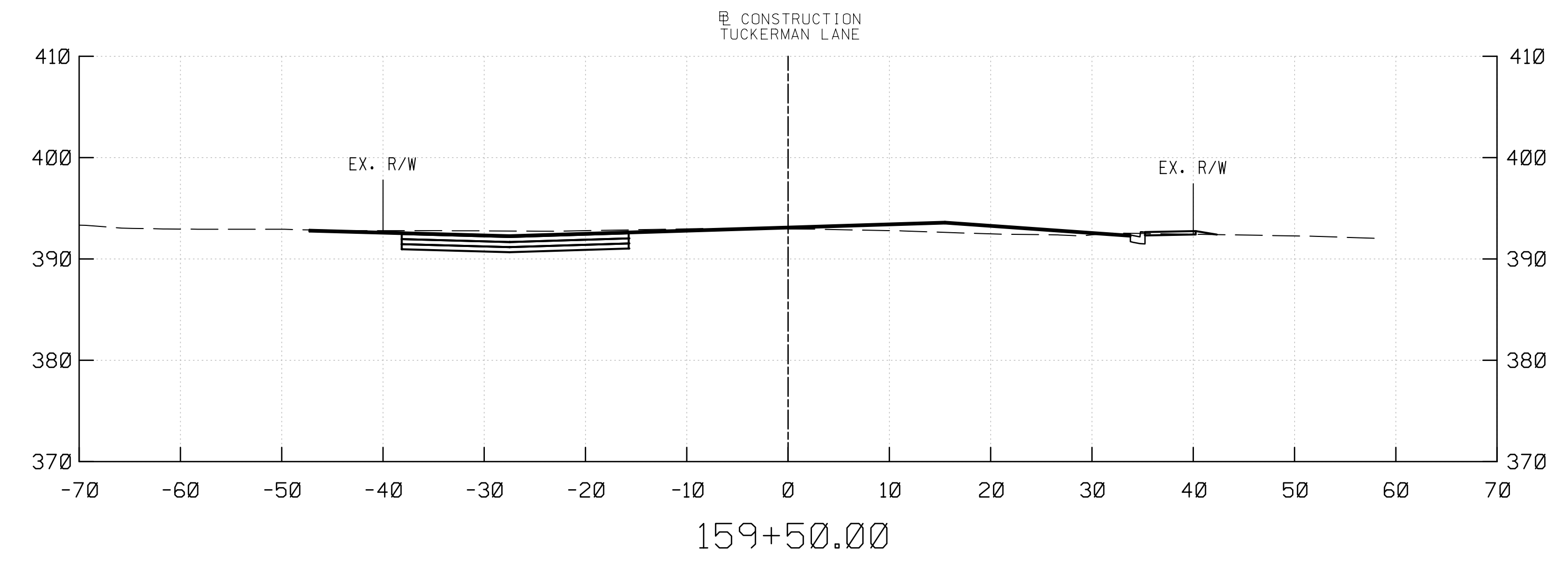
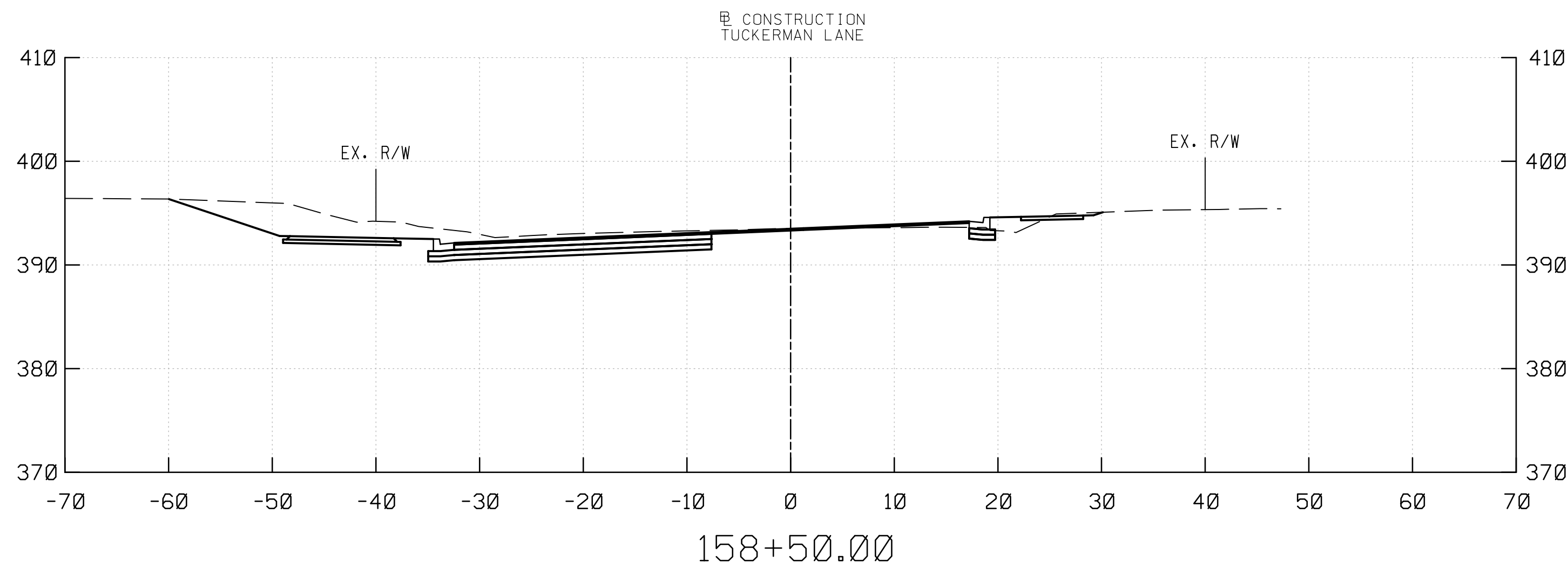
RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

PLAN SHEET CS-20
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 155+00 TO STA. 157+00
 SCALE: 1"= 10'
 Project No.: C.I.P. PR. # 509337 SHEET 155 of 171



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL
 DATE : 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

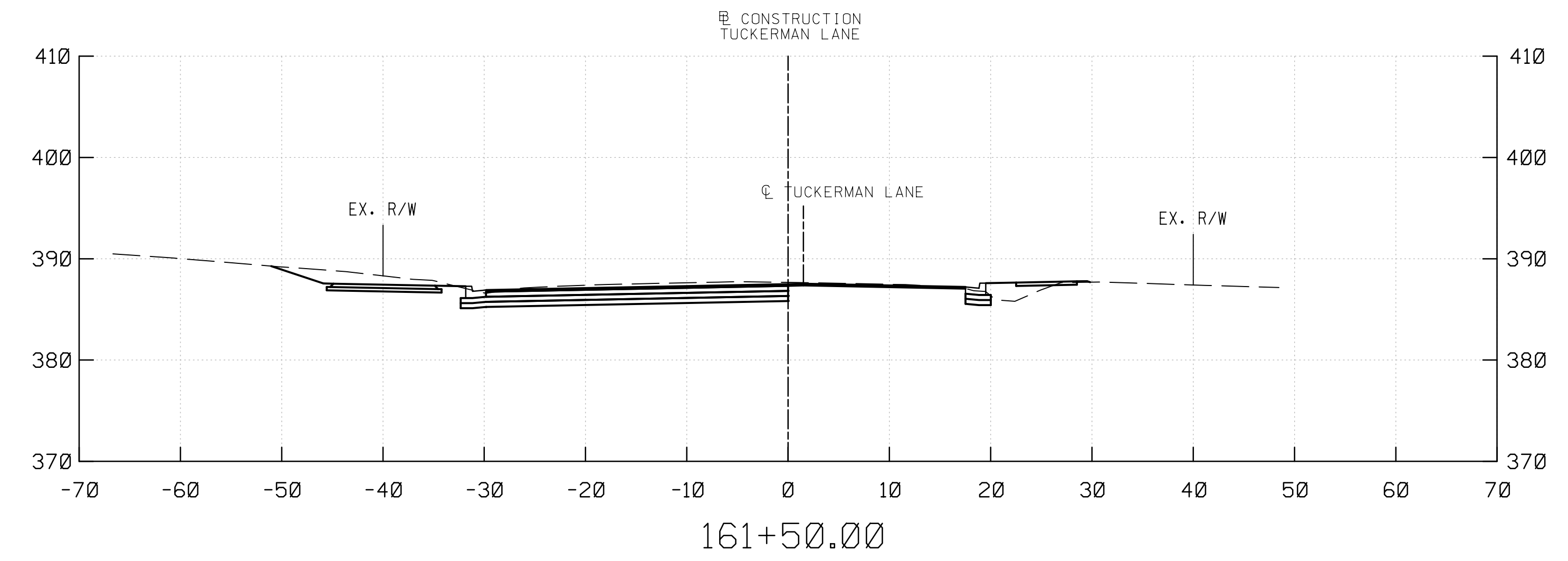
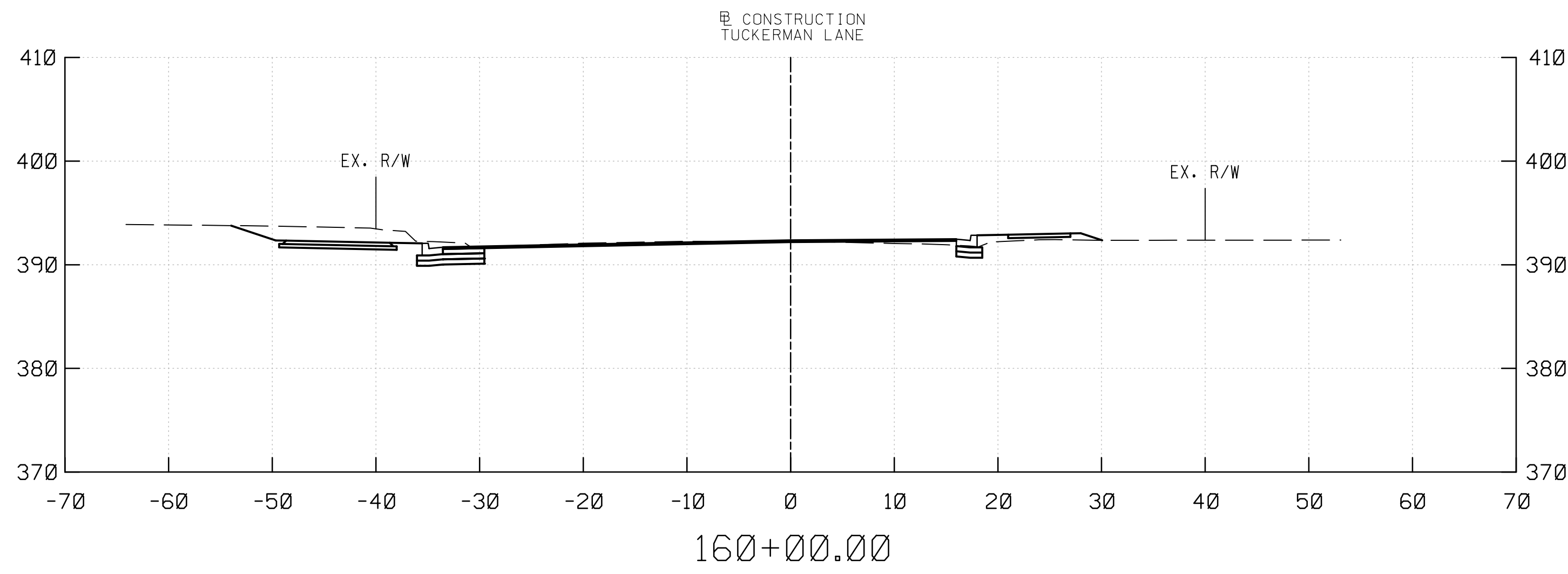
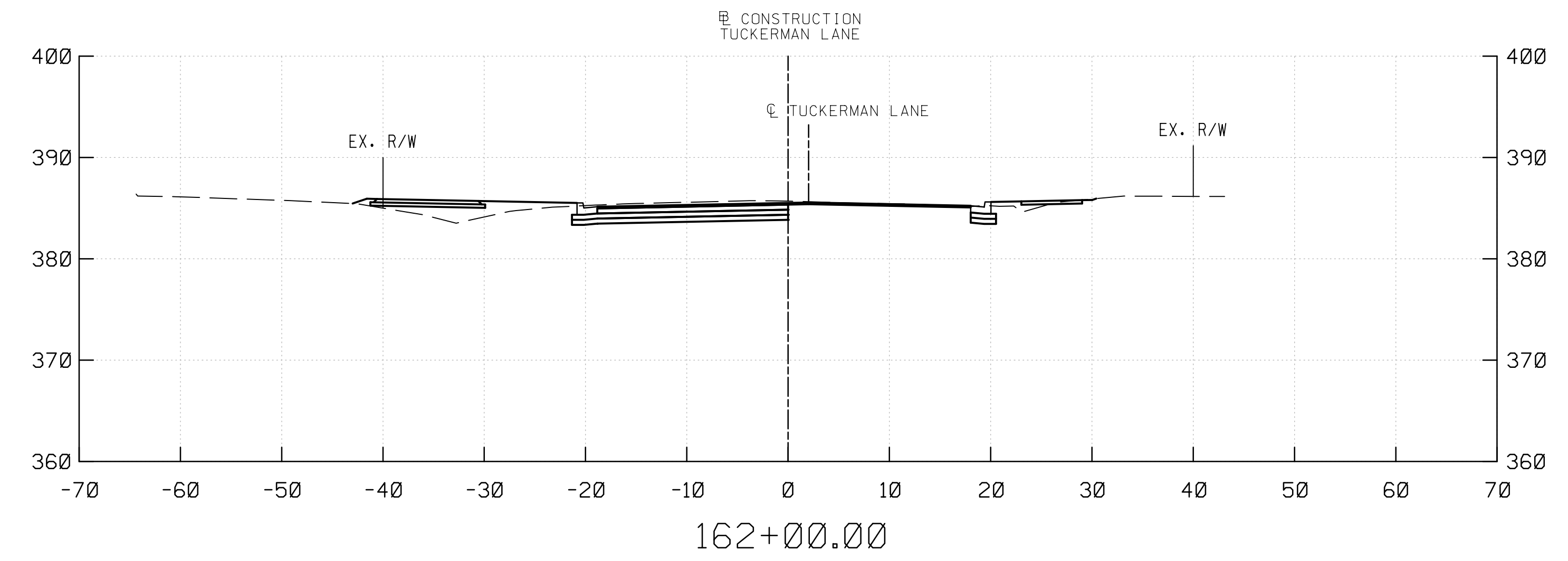
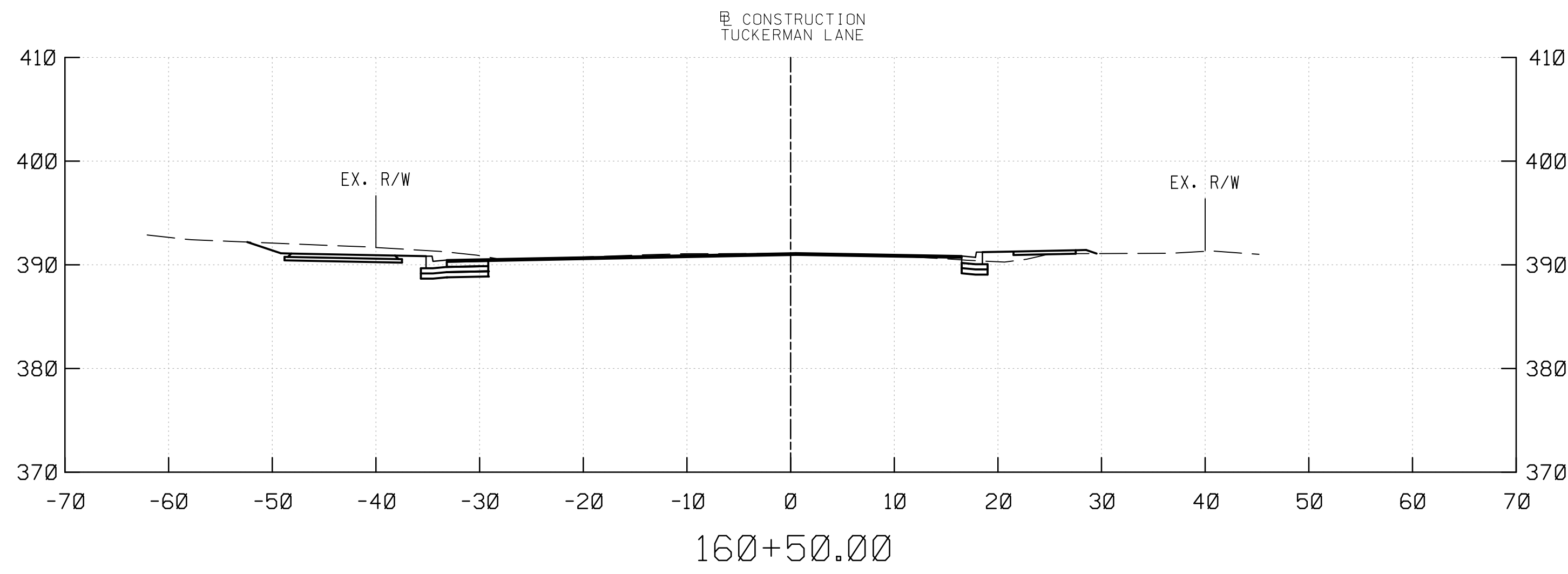
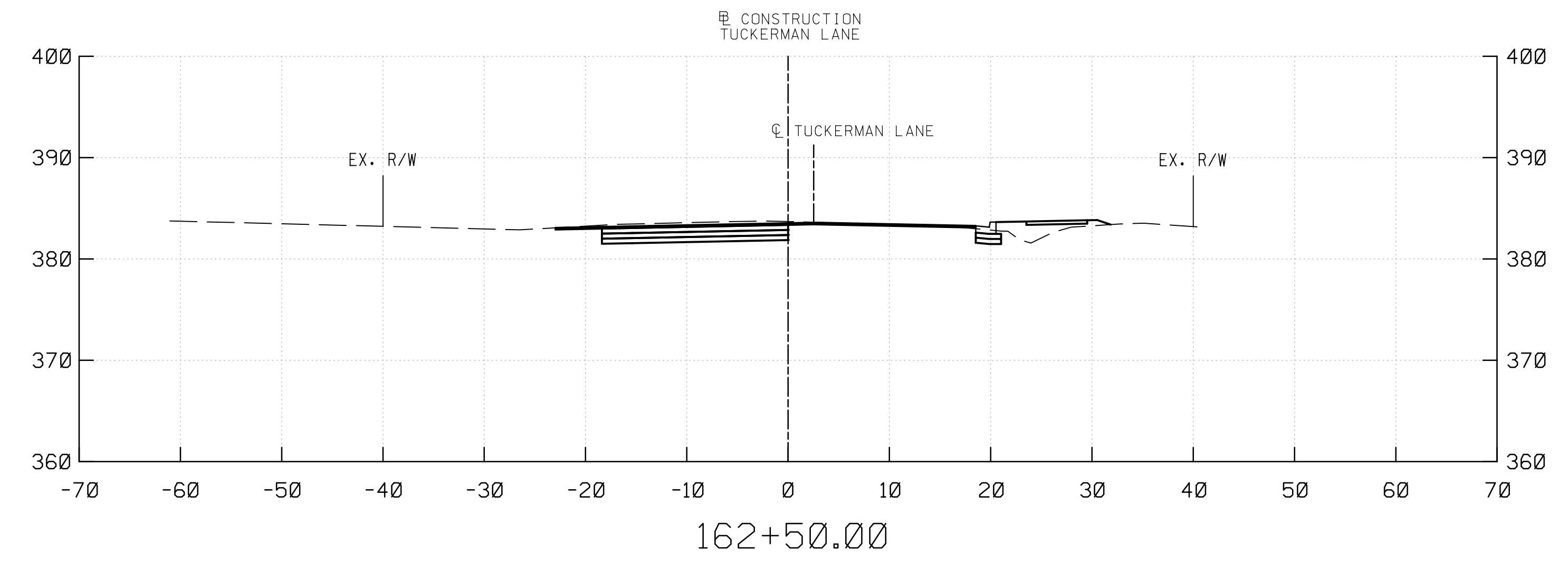
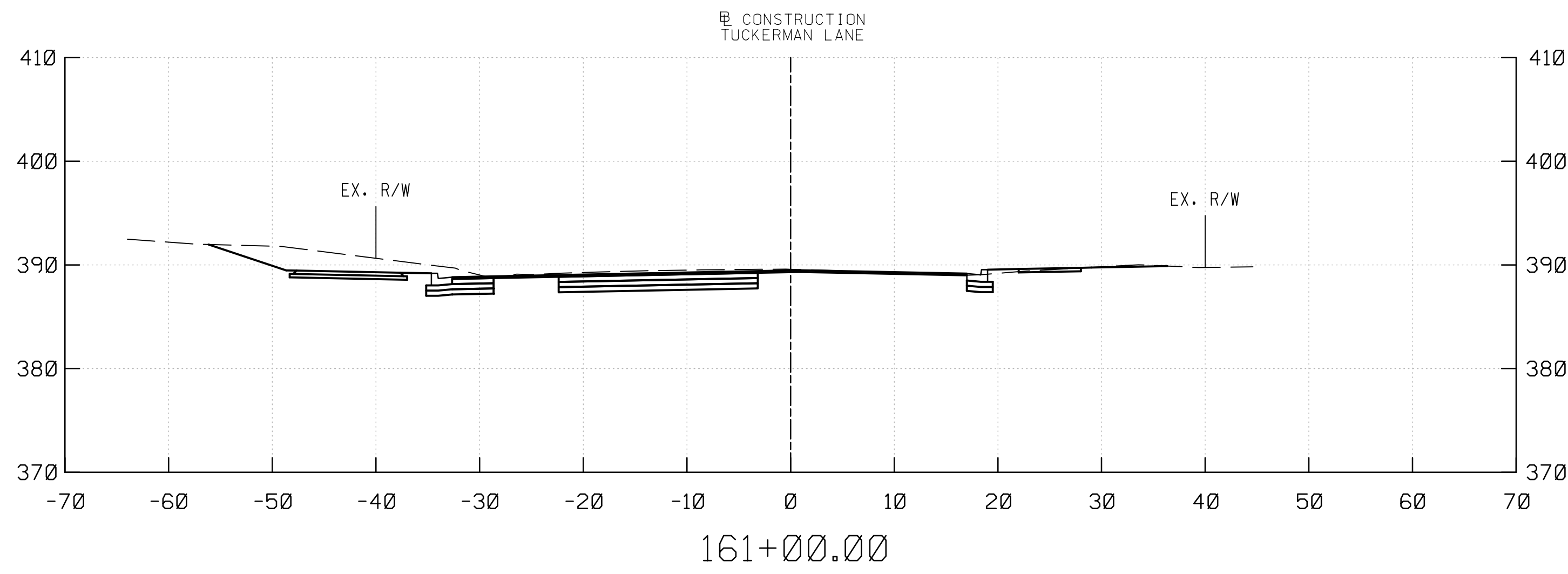
RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by : _____ Drawn by : _____ Checked by : _____

PLAN SHEET CS-21
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 157+50 TO STA. 159+50
 SCALE : 1" = 10' 09/2021
 Project No. : C.I.P. PR. # 509337 SHEET 156 of 171



WALLACE MONTGOMERY
 ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
 10150 York Road, Suite 200
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 www.WallaceMontgomery.com

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 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL
 DATE: 09-17-2021

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DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

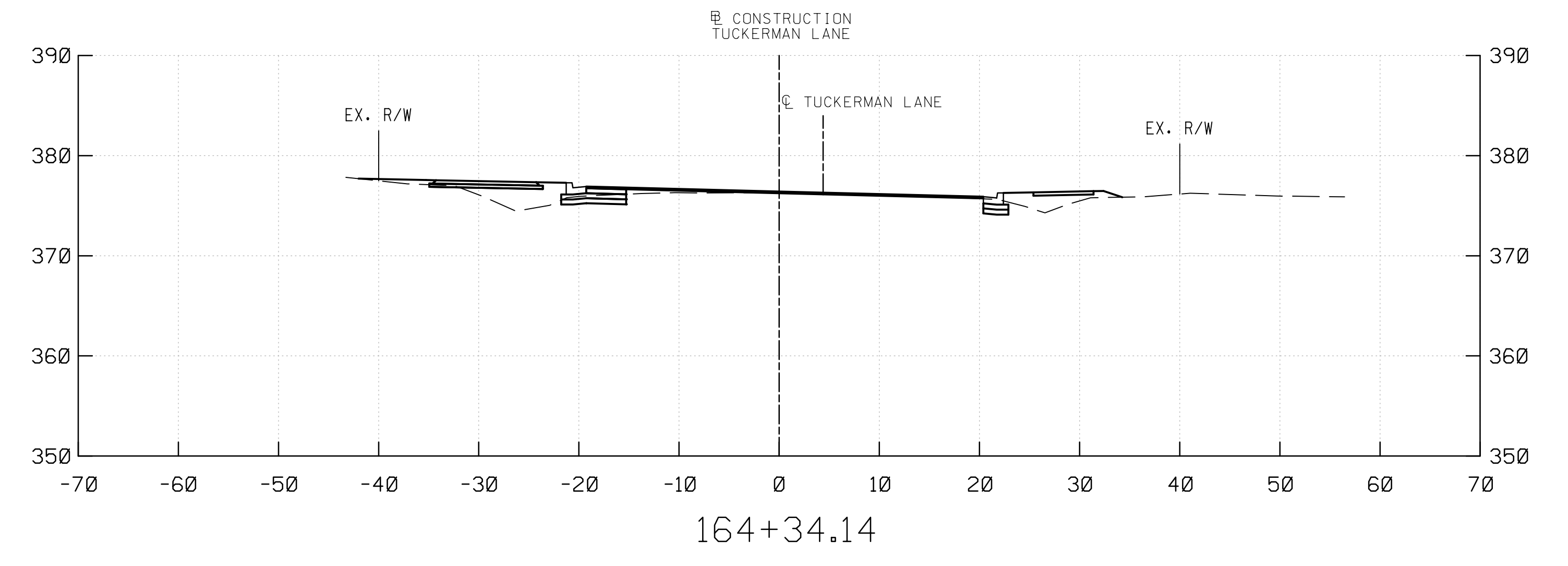
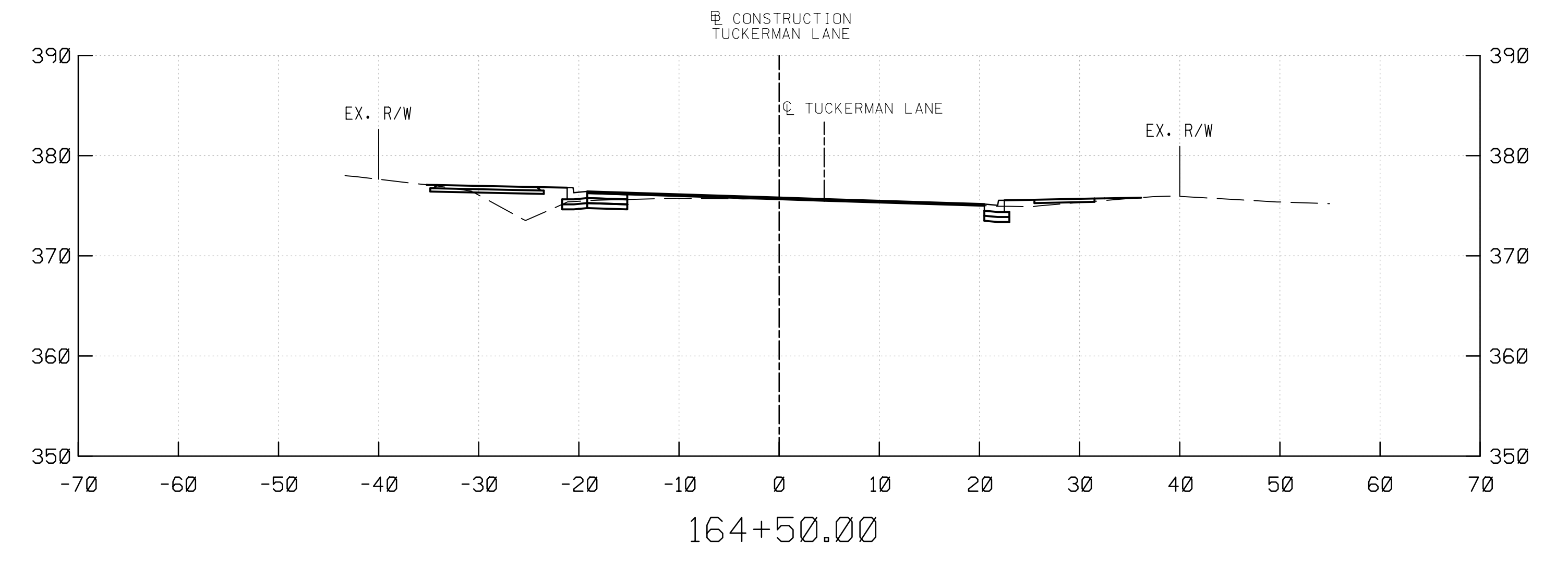
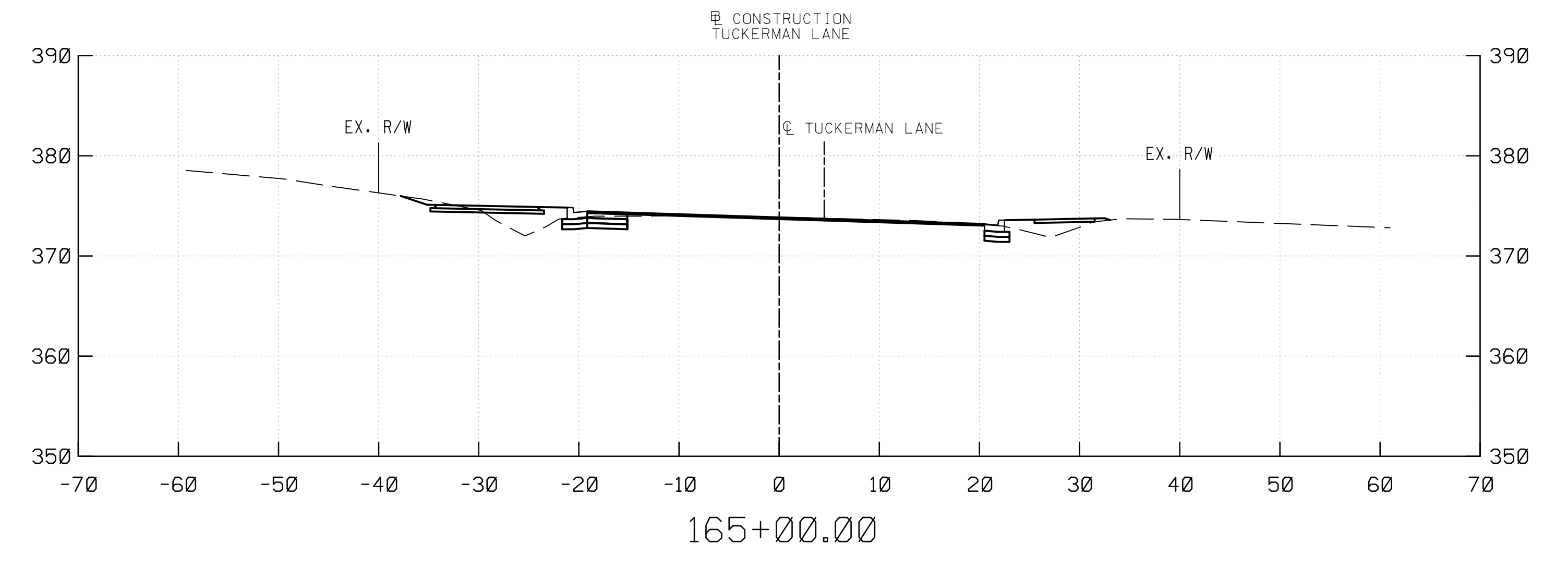
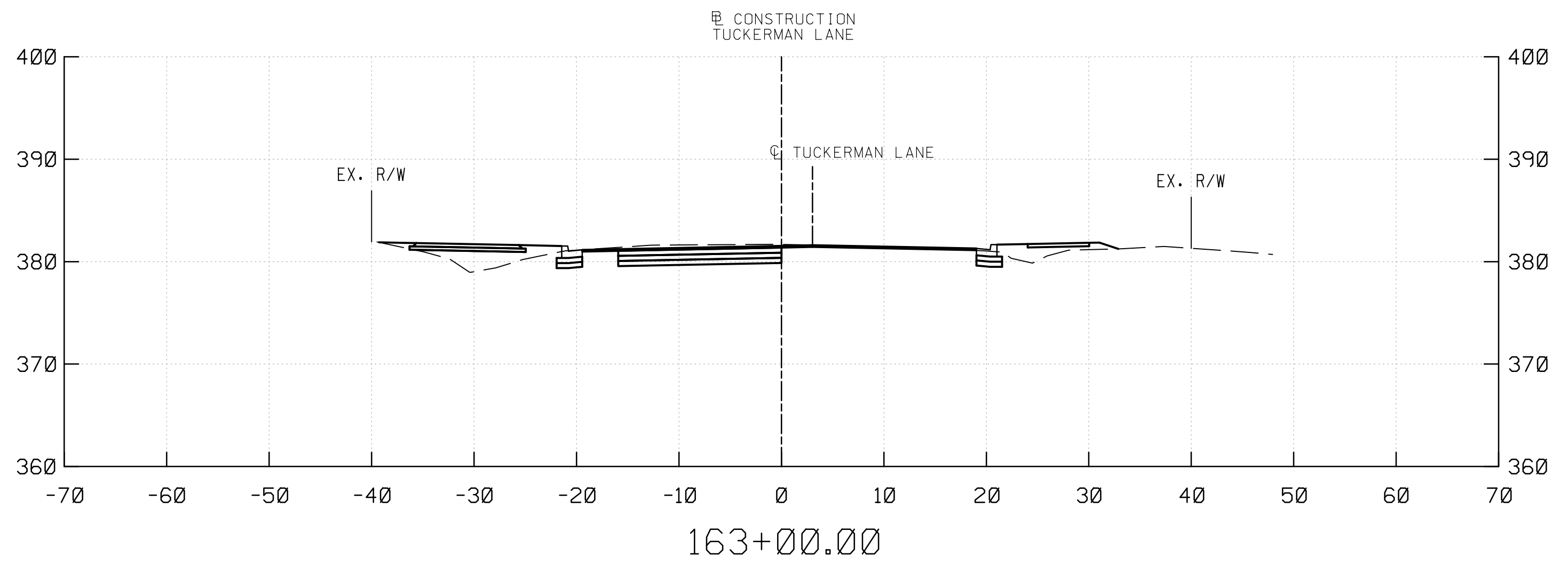
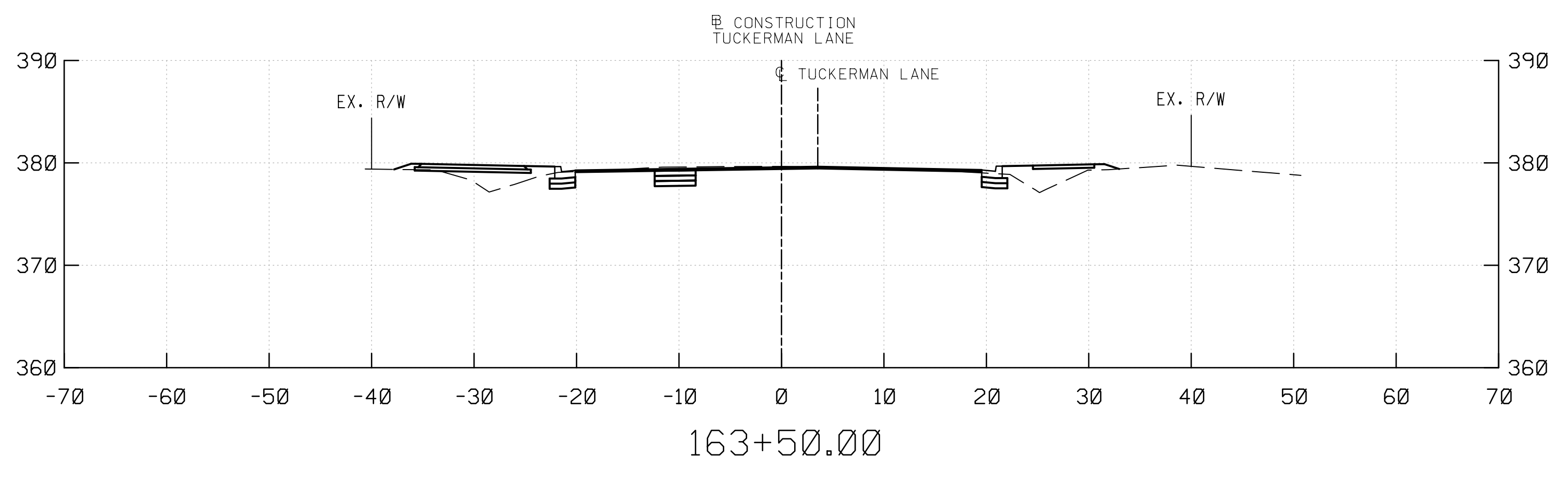
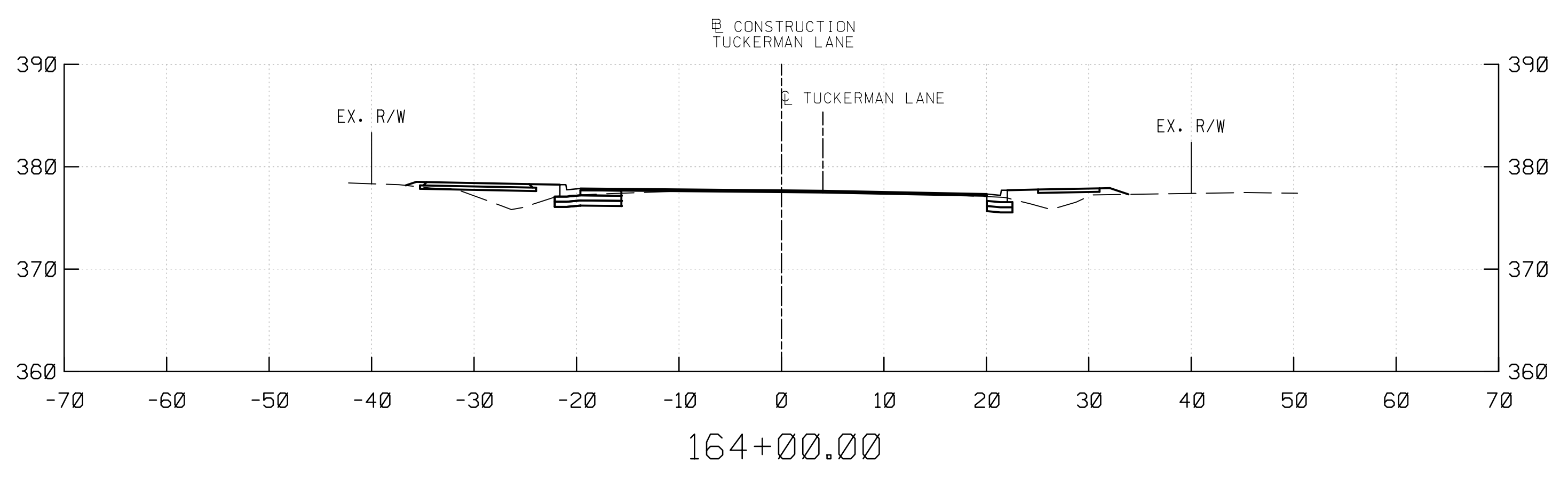
RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

PLAN SHEET CS-22
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 160+00 TO STA. 162+50
 SCALE: 1"= 10'
 Project No.: C.I.P. PR. # 509337 SHEET 157 of 171



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL
 DATE: 09-17-2021

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DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

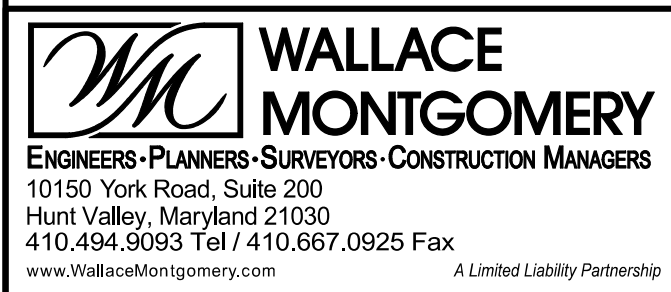
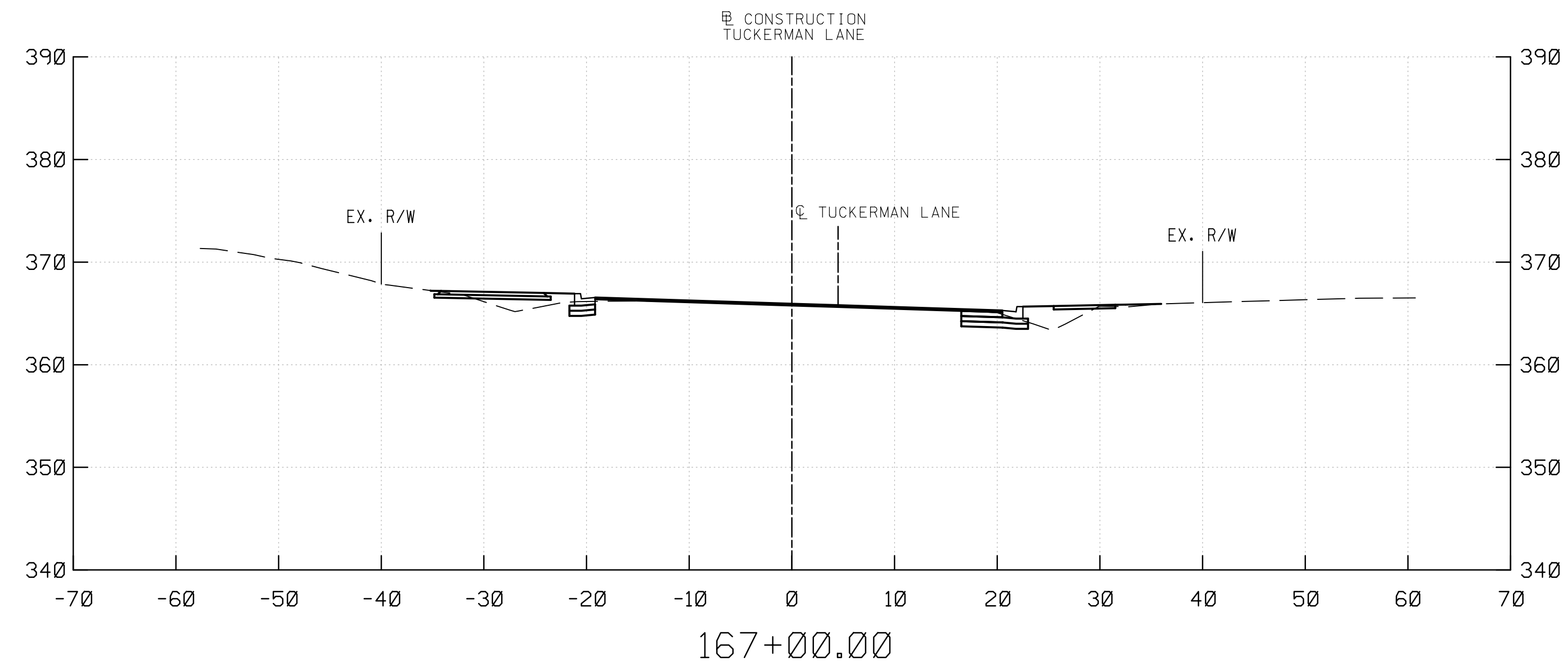
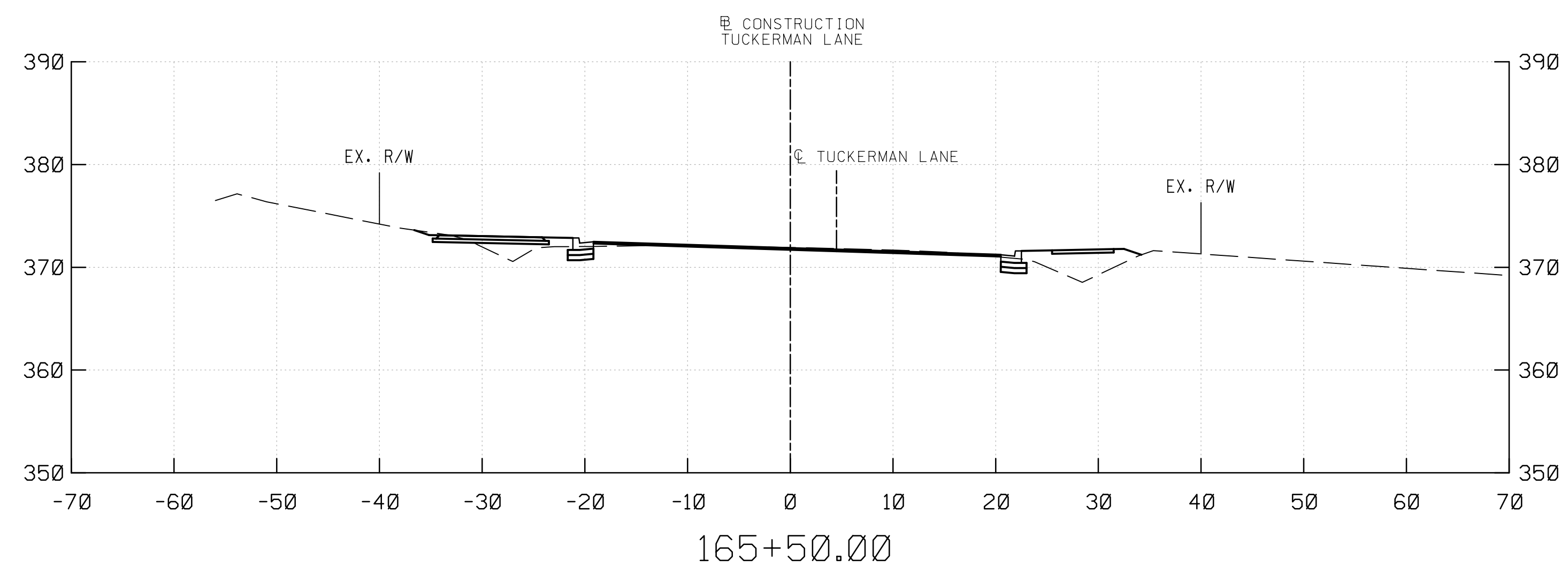
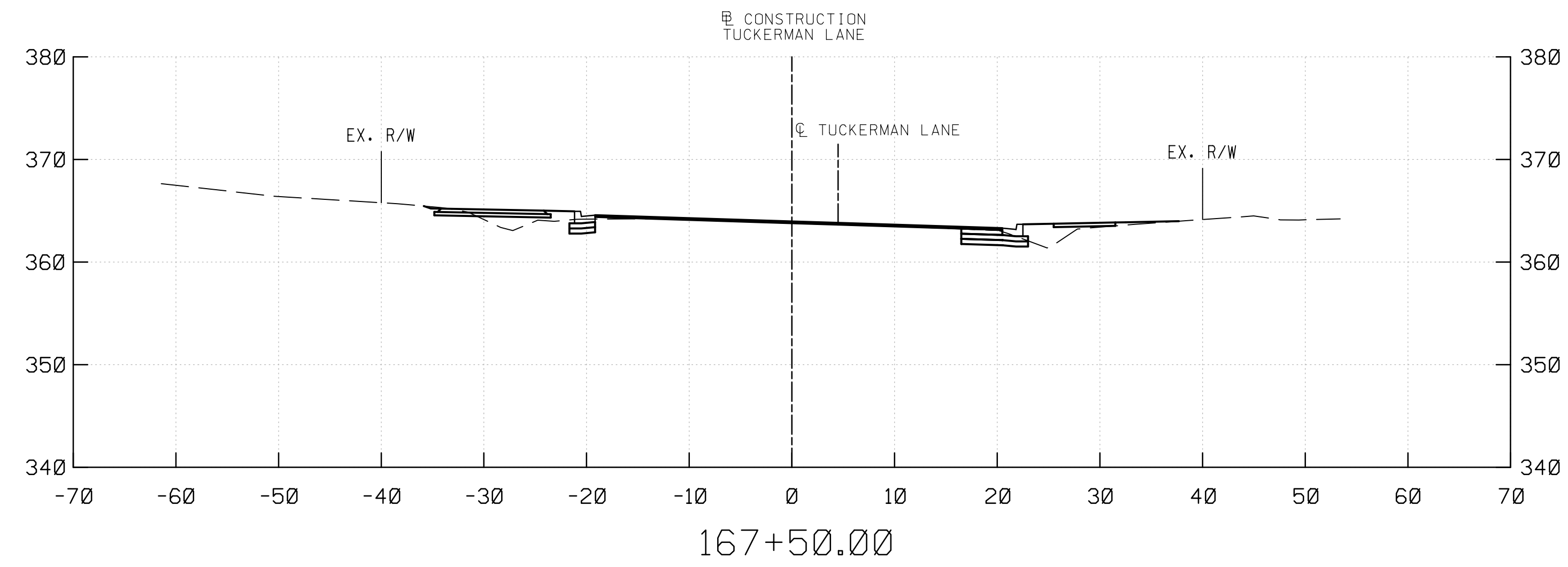
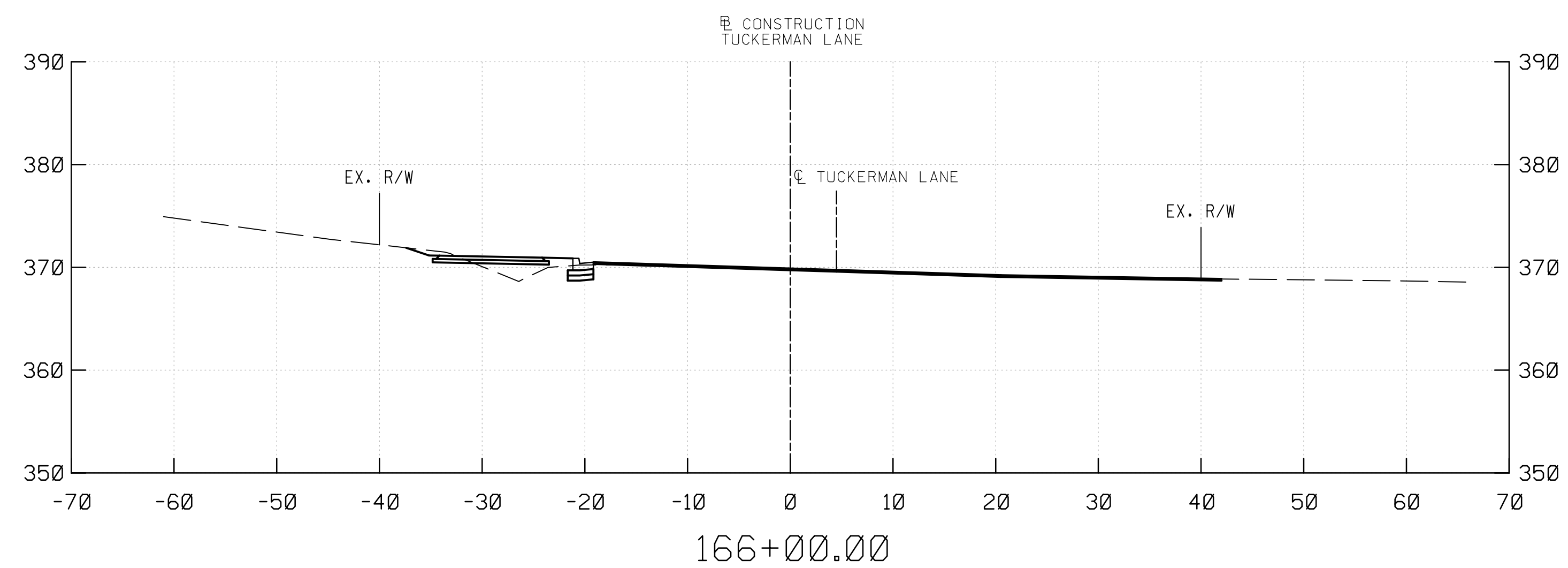
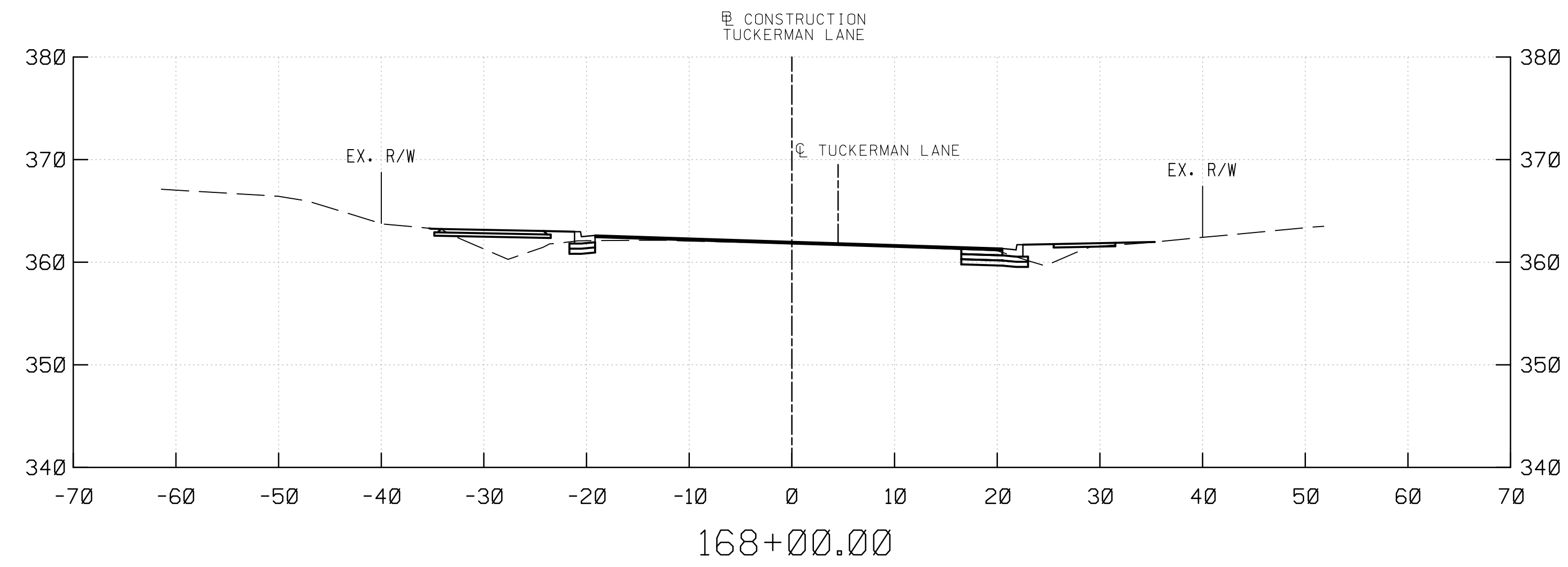
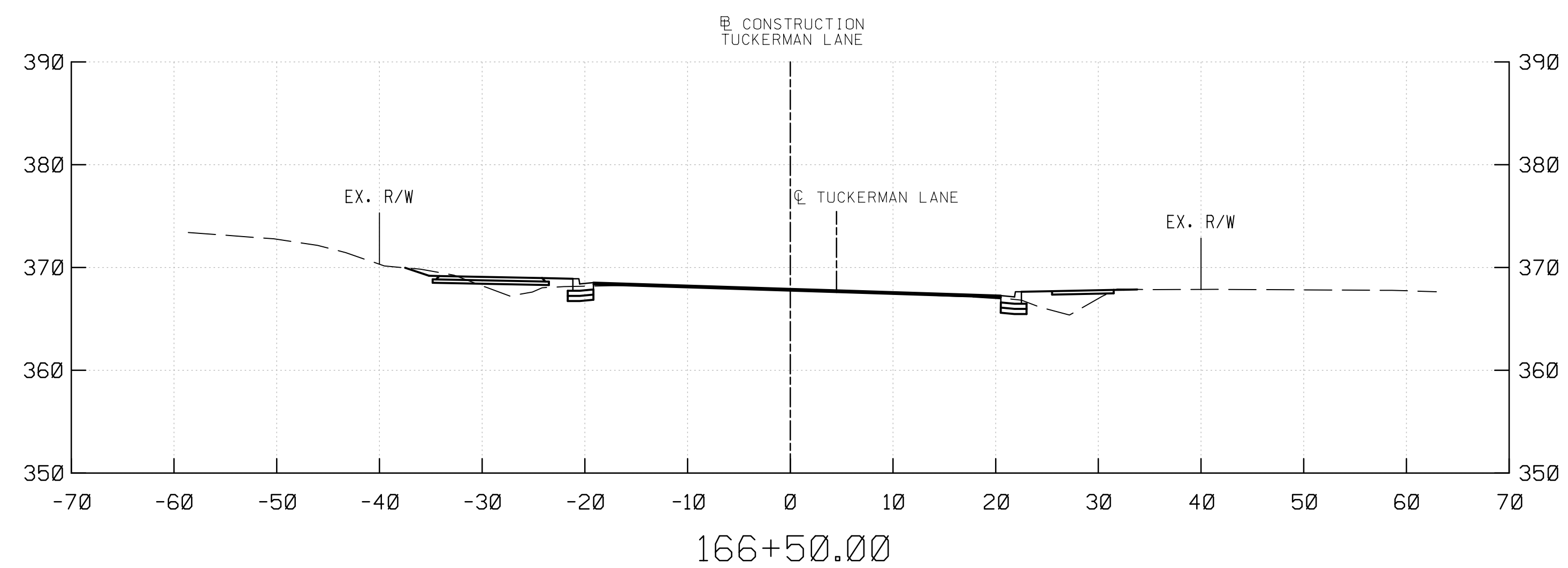
RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

PLAN SHEET CS-23
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 163+00 TO STA. 165+00
 SCALE: 1"= 10'
 Project No.: C.I.P. PR. # 509337 SHEET 158 of 171



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
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SEAL
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DATUM: NAD 83/91 HORIZONTAL
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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

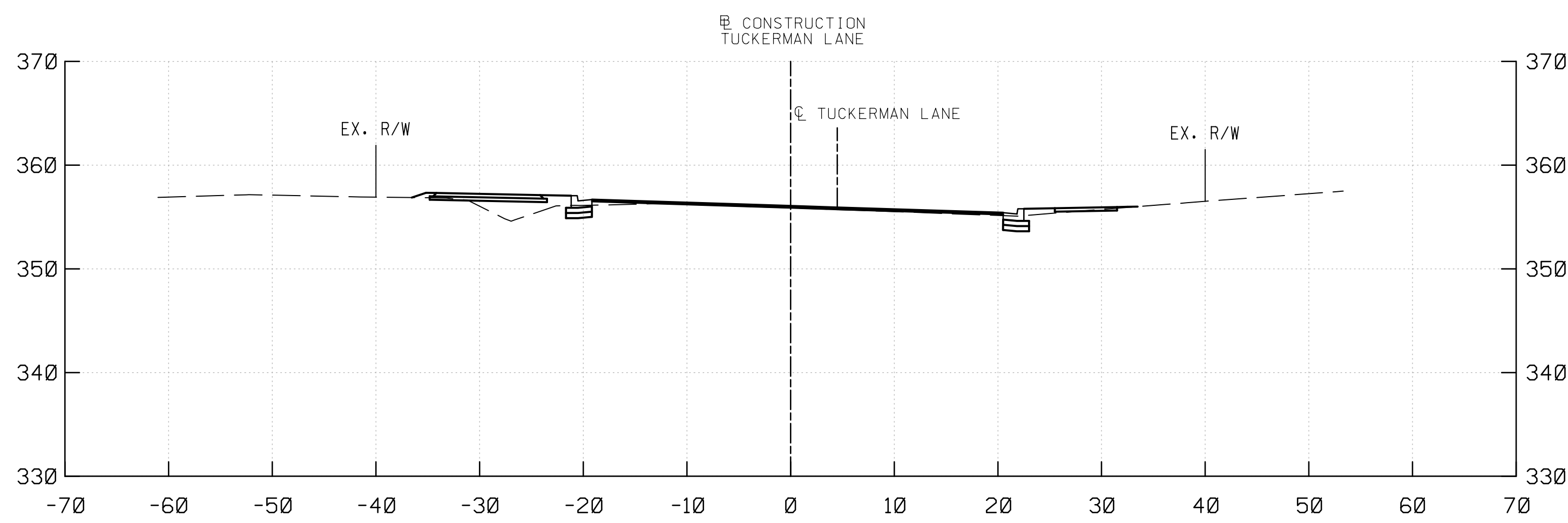
RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

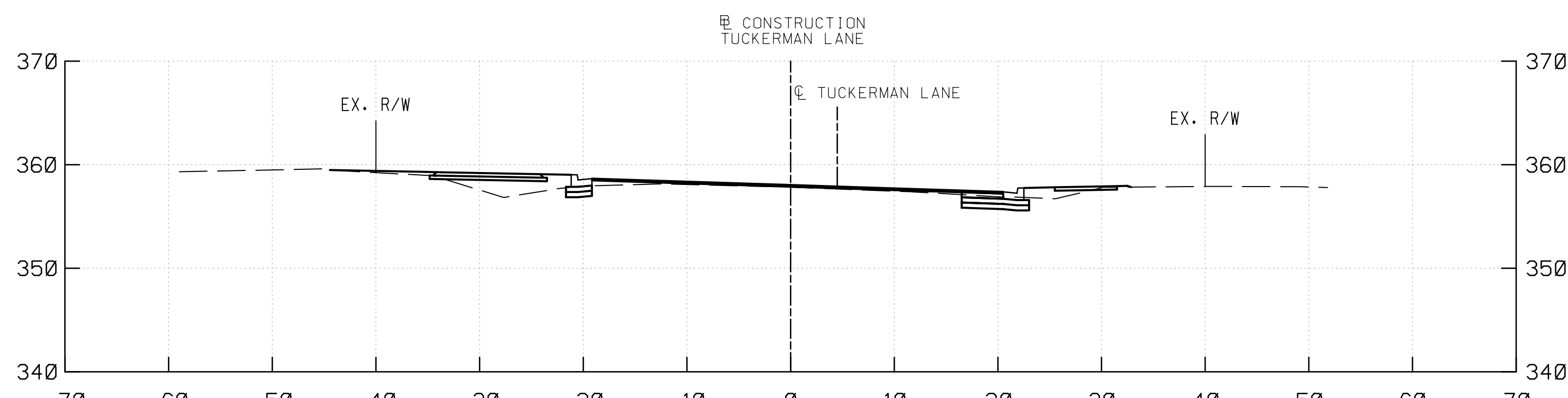
Chief, Division of Engineering Services _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

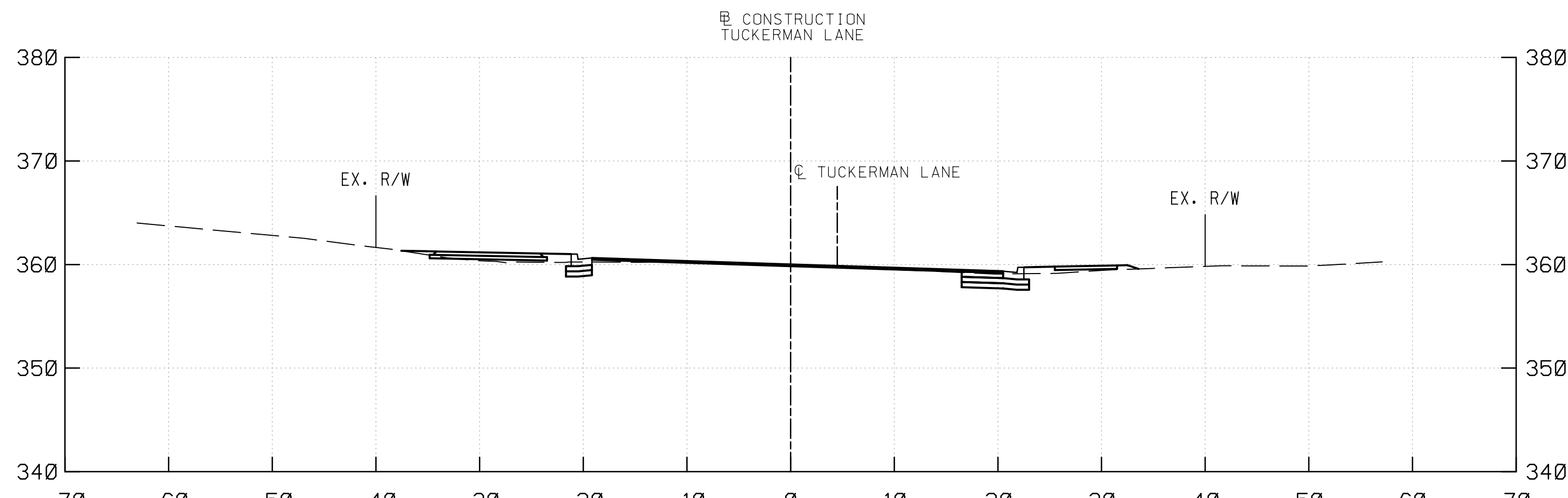
PLAN SHEET CS-24
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 165+50 TO STA. 168+00
 SCALE: 1"= 10' 09/2021
 Project No.: C.I.P. PR. # 509337 SHEET 159 of 171



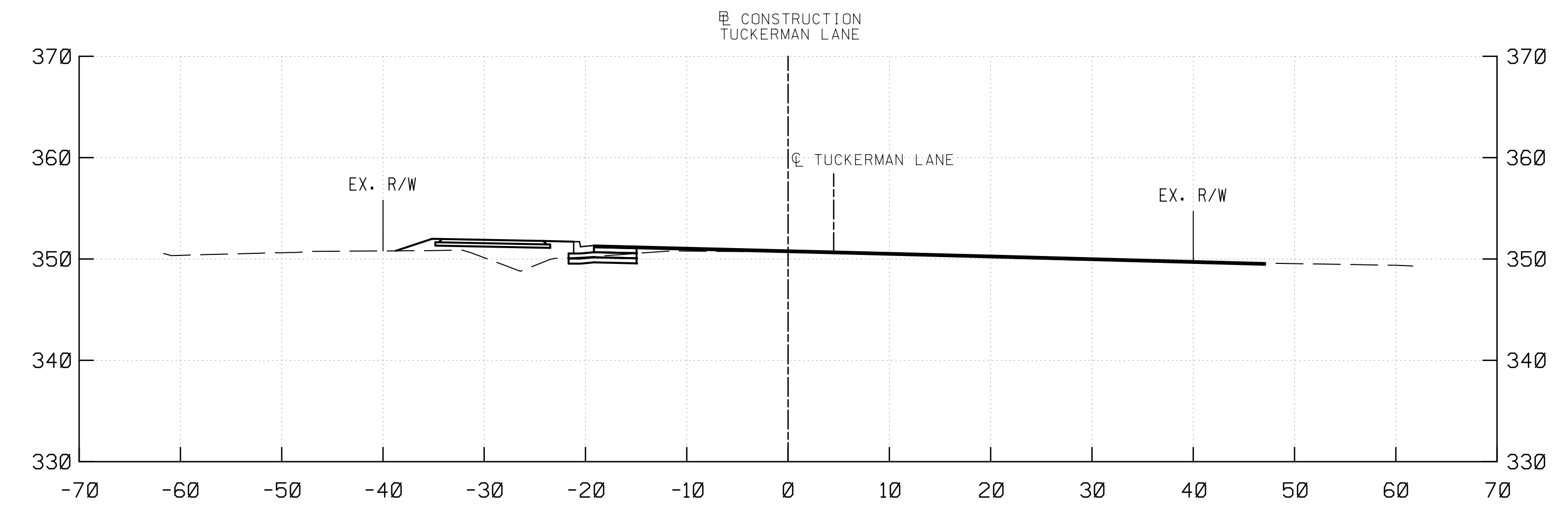
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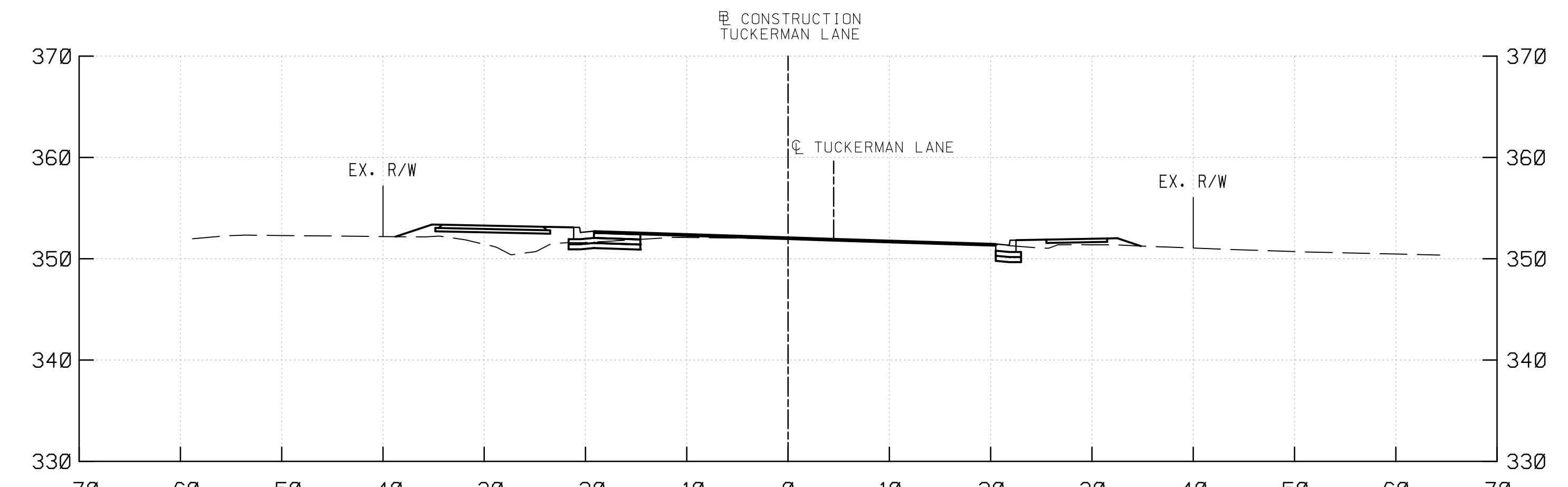
169+00.00



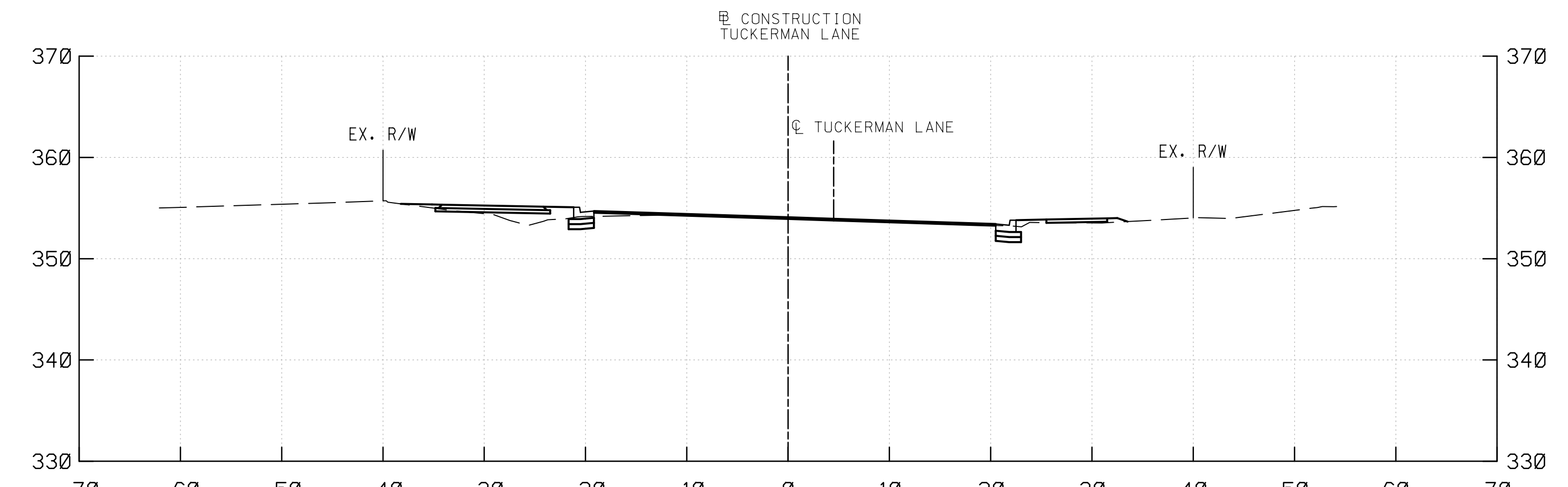
168+50.00



170+81.33



170+50.00



170+00.00

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MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

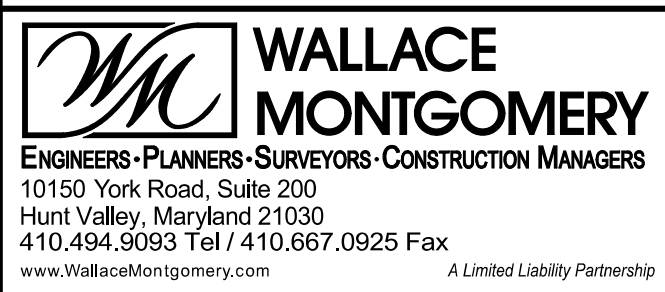
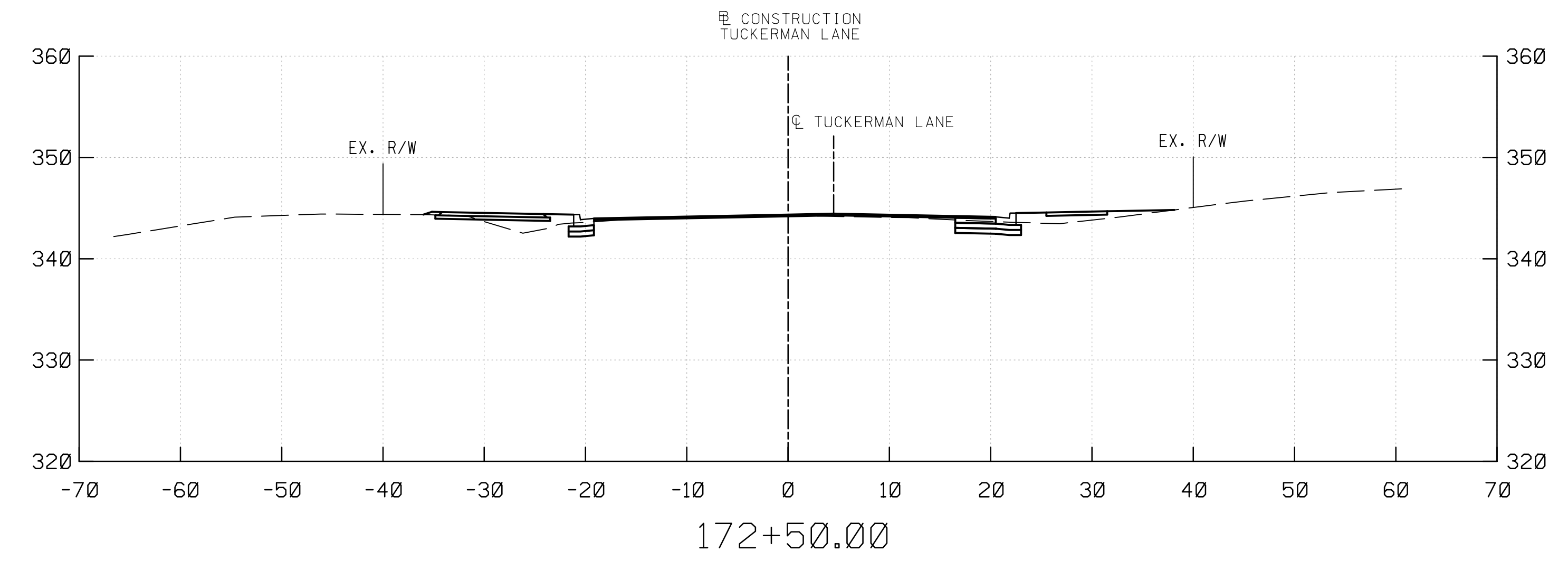
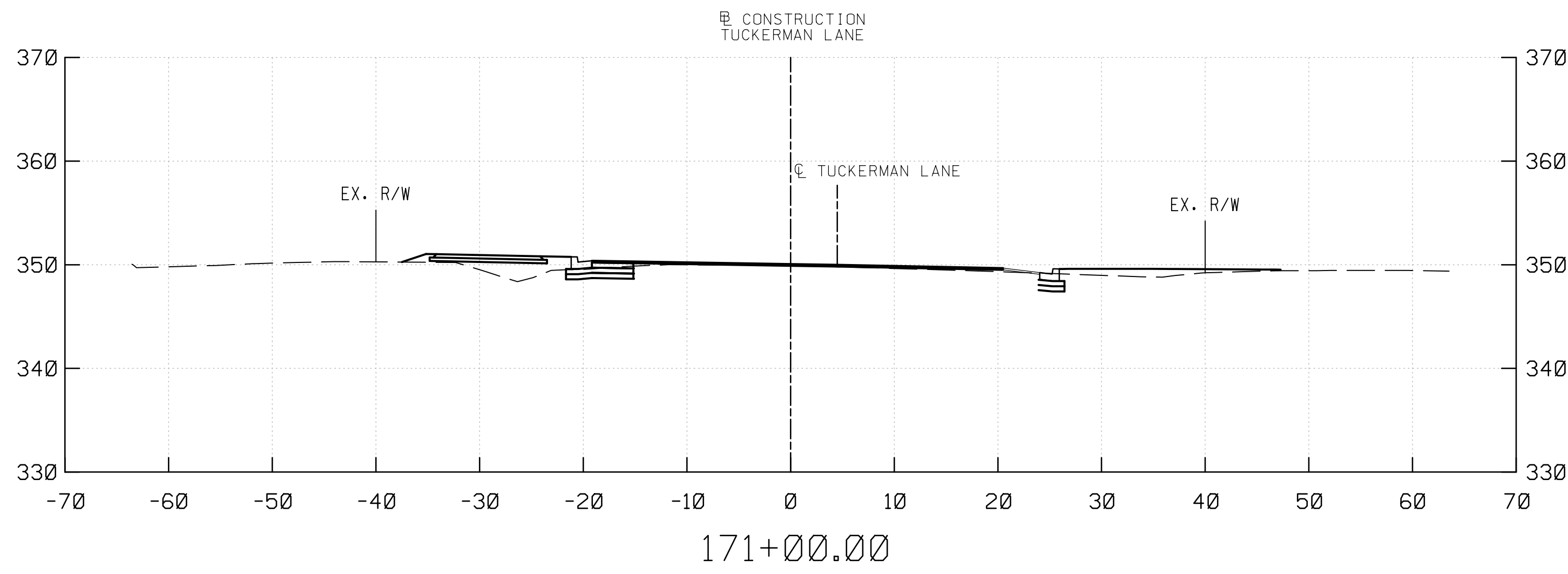
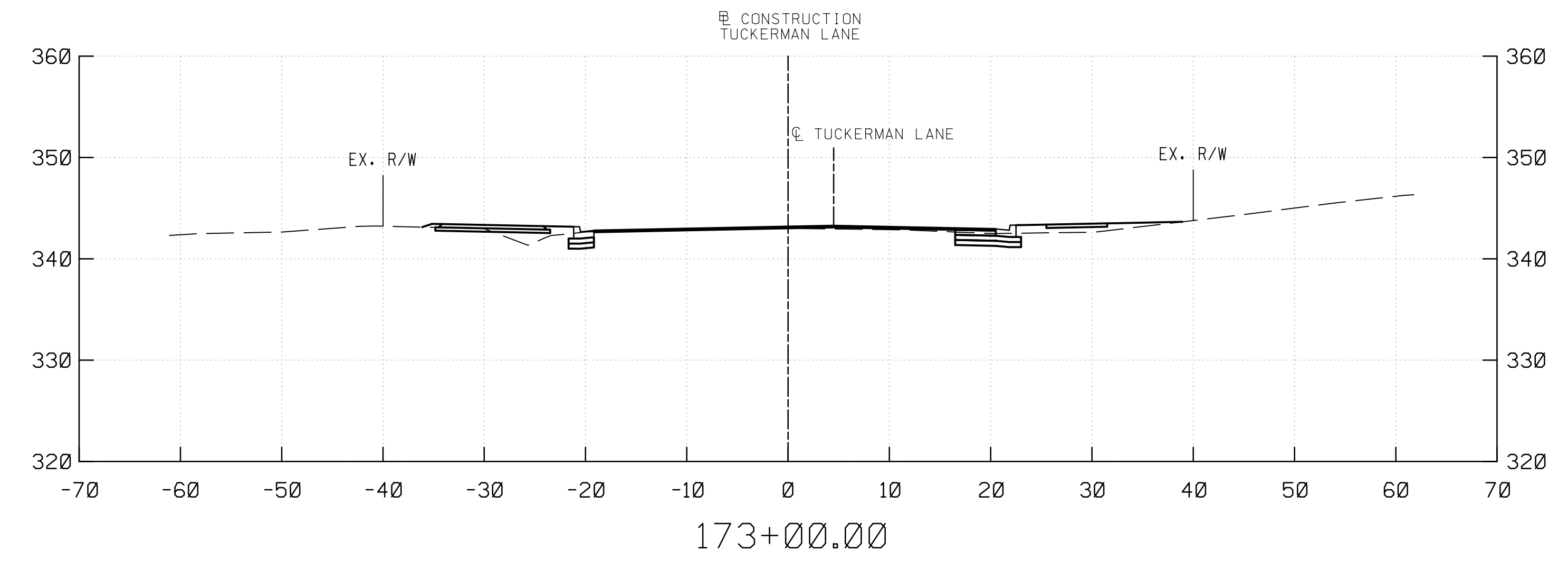
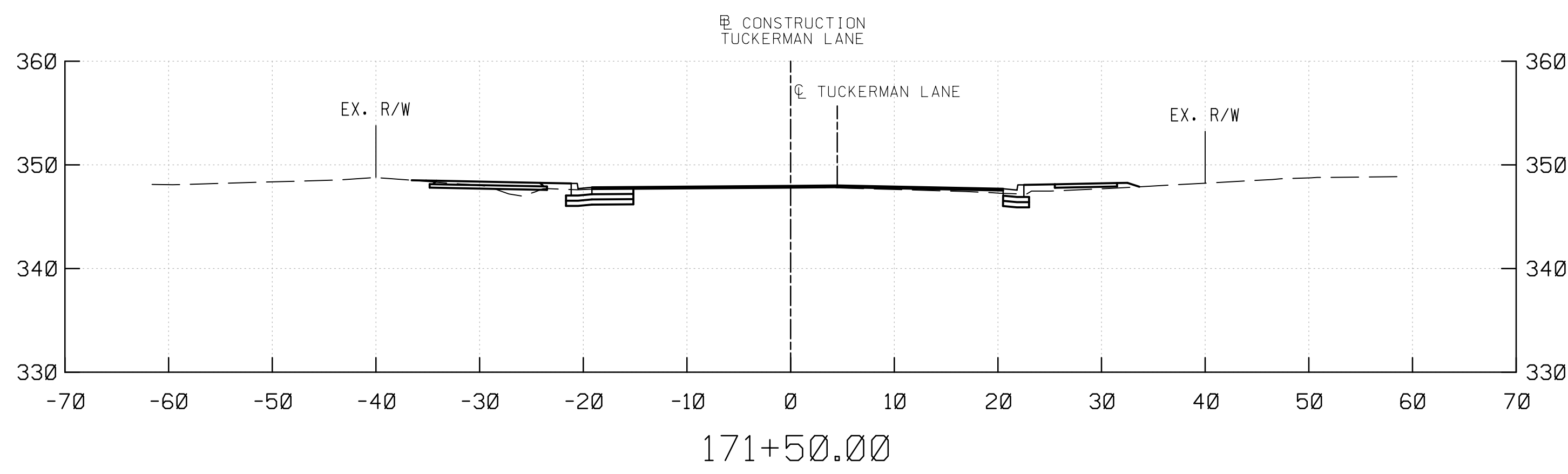
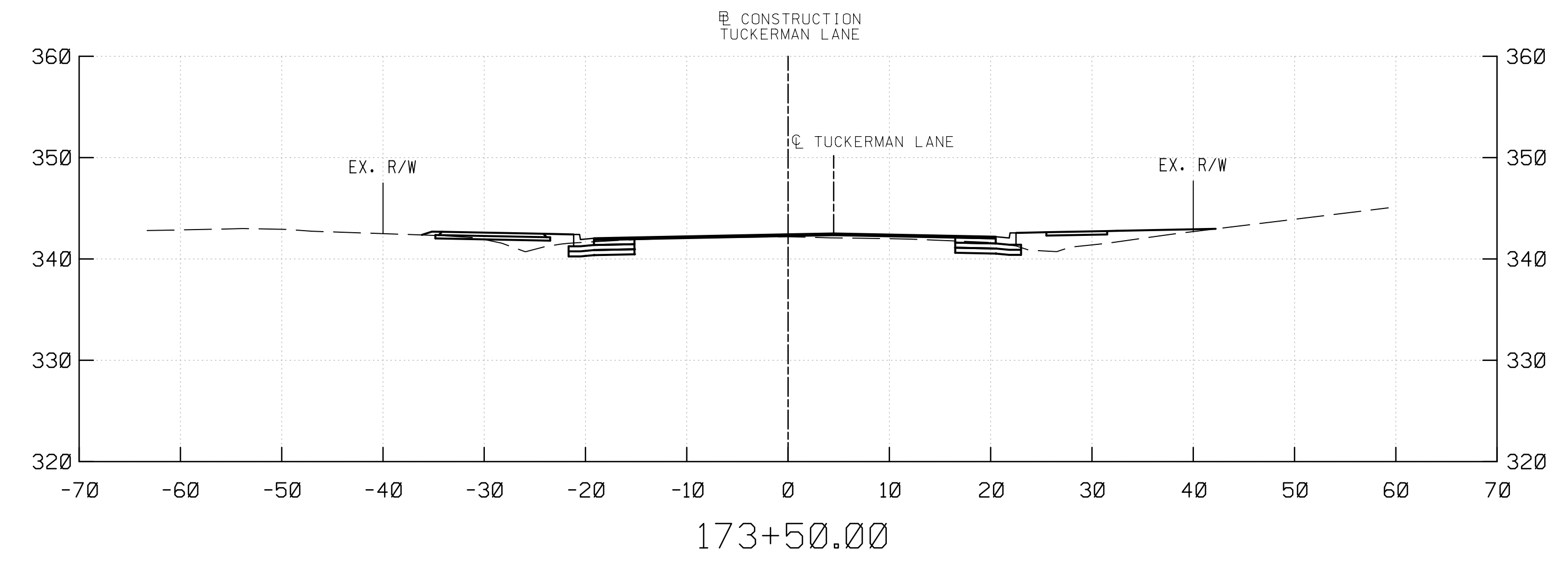
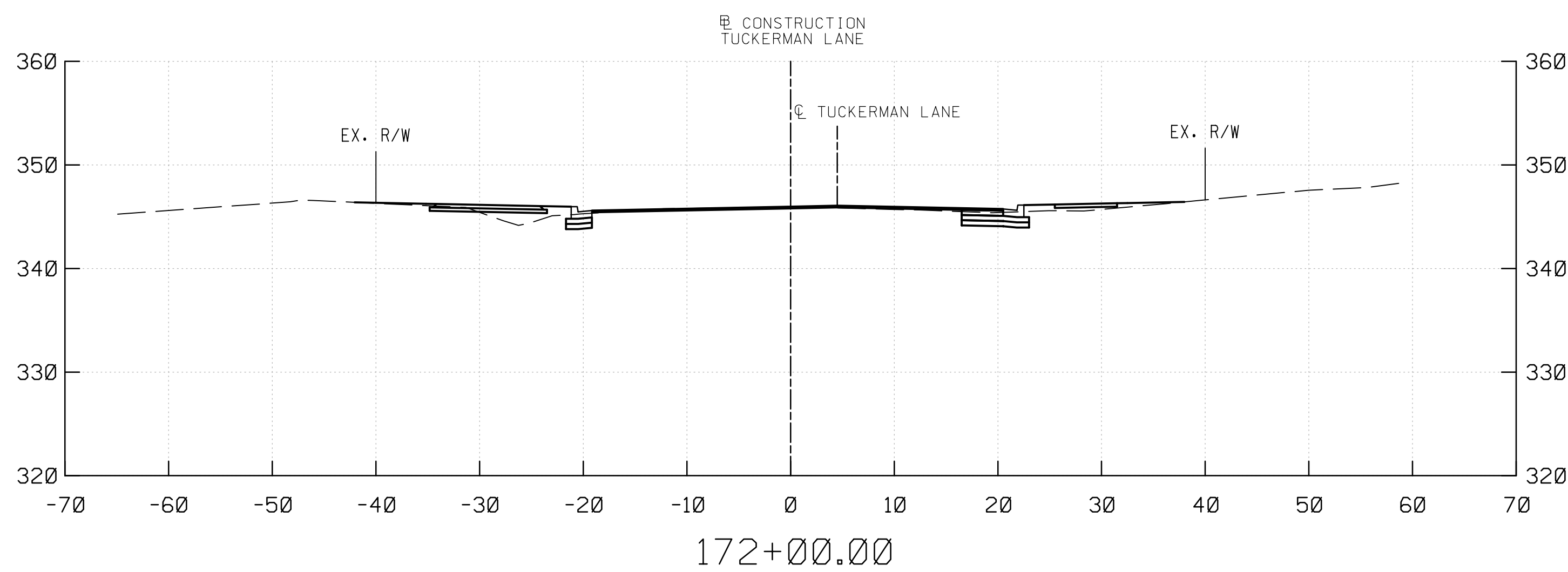
Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

PLAN SHEET CS-25
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 168+50 TO STA. 171+81.33
 SCALE: 1"= 10' 09/2021

Project No.: C.I.P. PR. # 509337 SHEET 160 of 171



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL
 DATE: 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

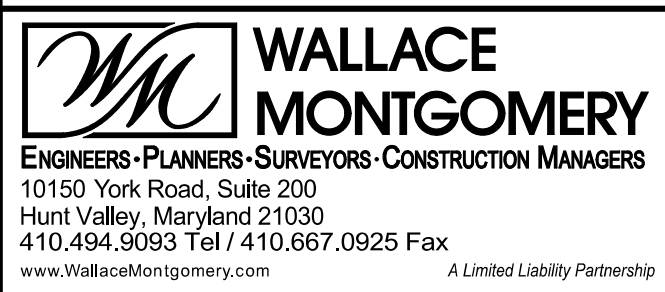
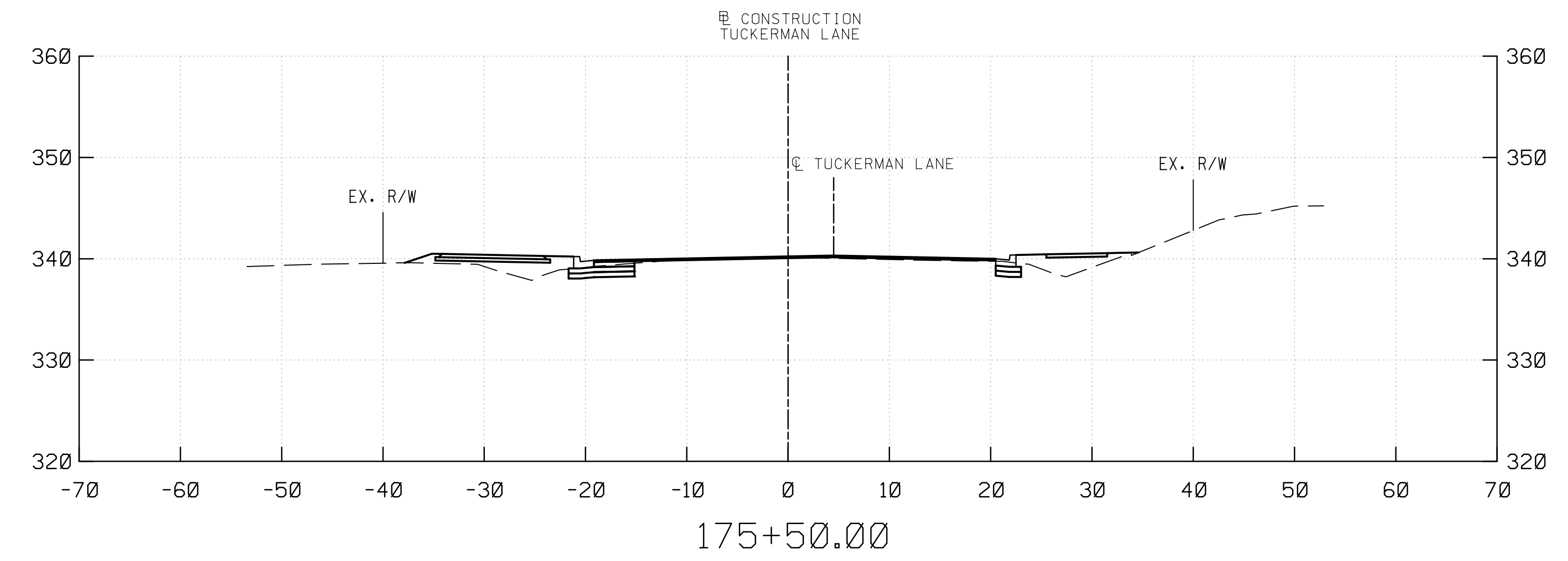
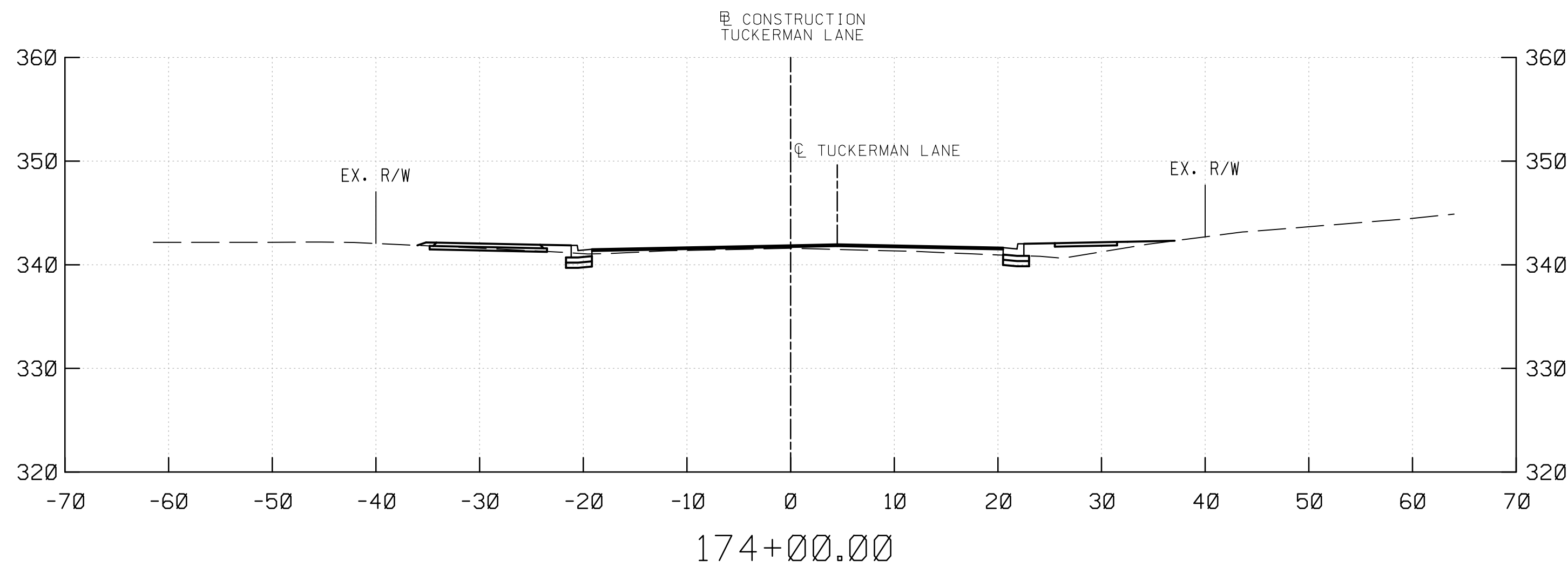
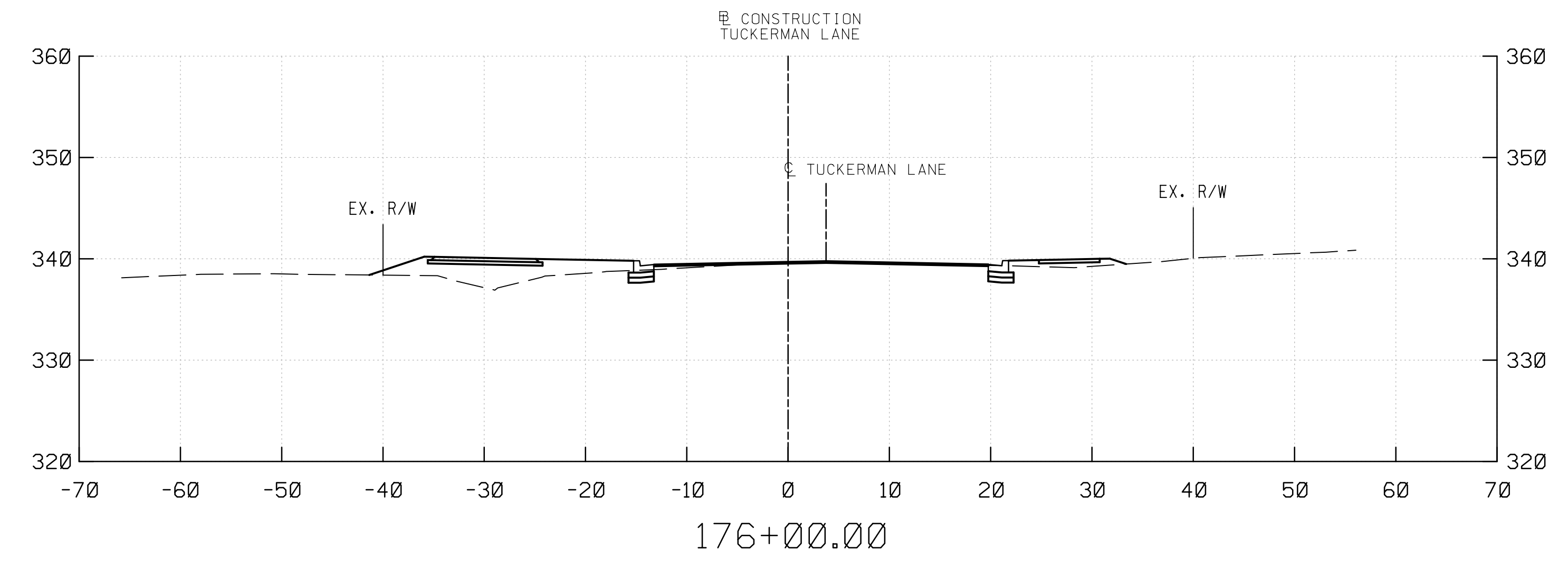
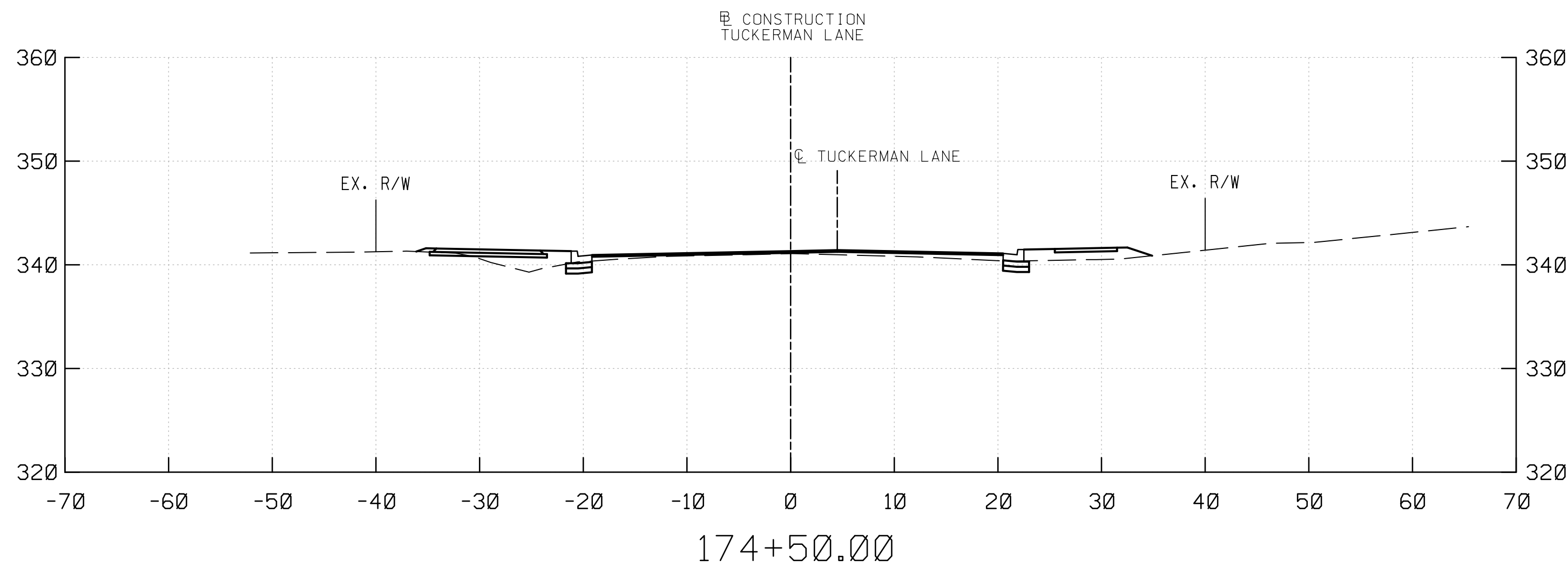
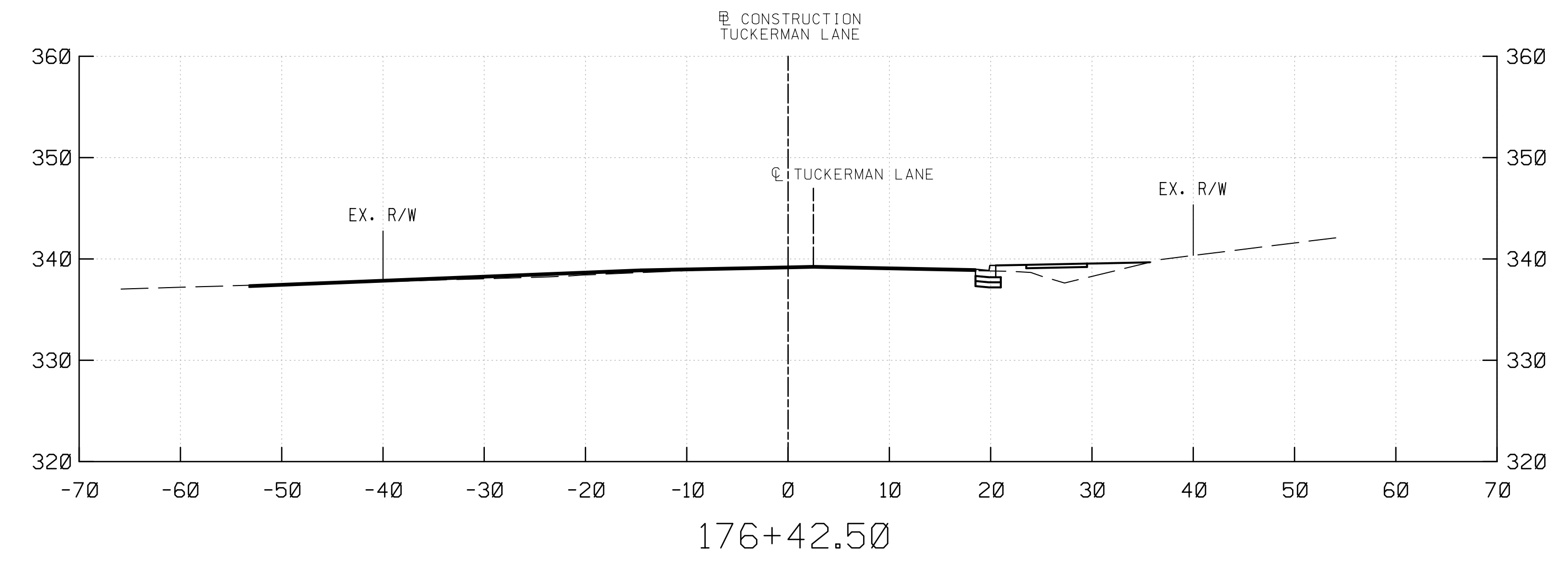
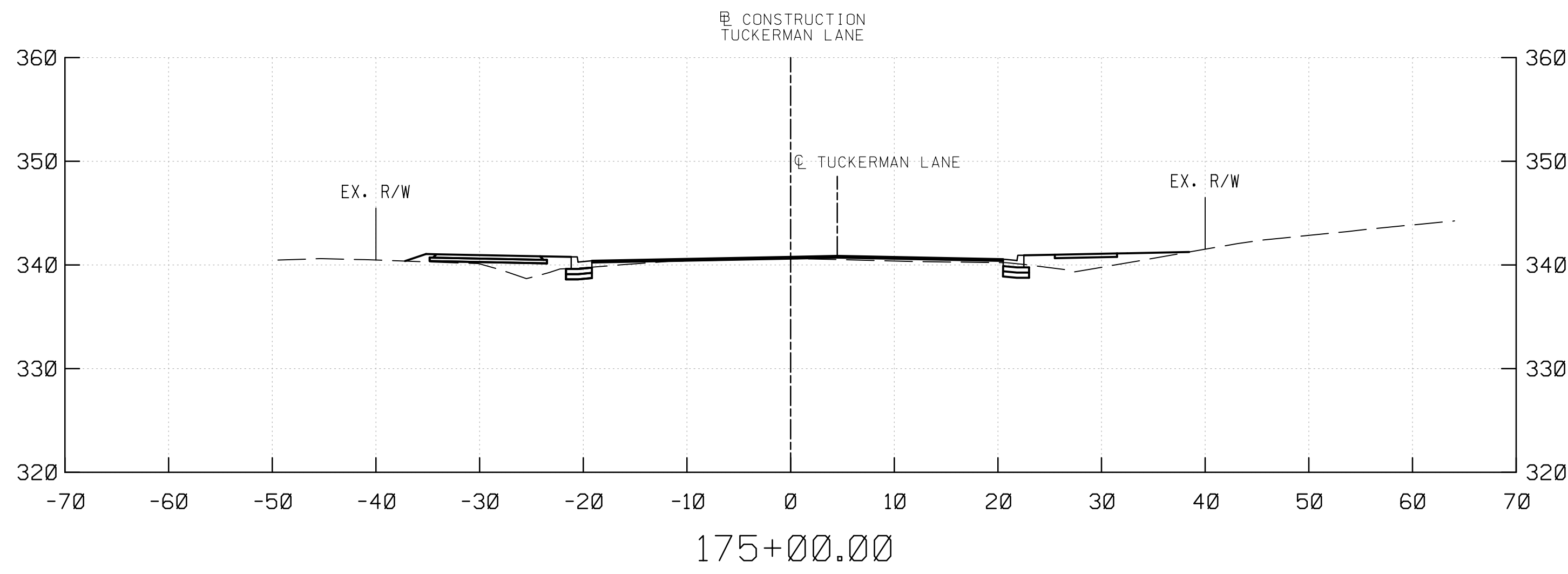
RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

PLAN SHEET CS-26
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 171+00 TO STA. 173+50
 SCALE: 1"= 10'
 Project No.: C.I.P. PR. # 509337 SHEET 161 of 171



PROFESSIONAL CERTIFICATION
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 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

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35% SUBMITTAL
 DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
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 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

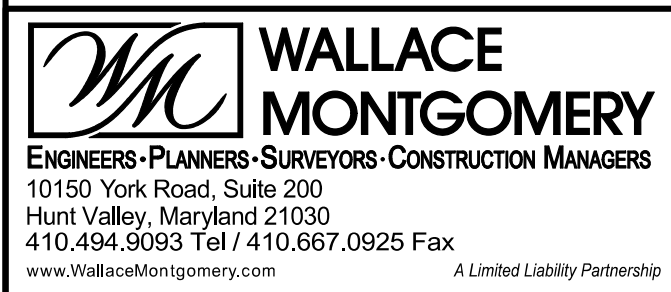
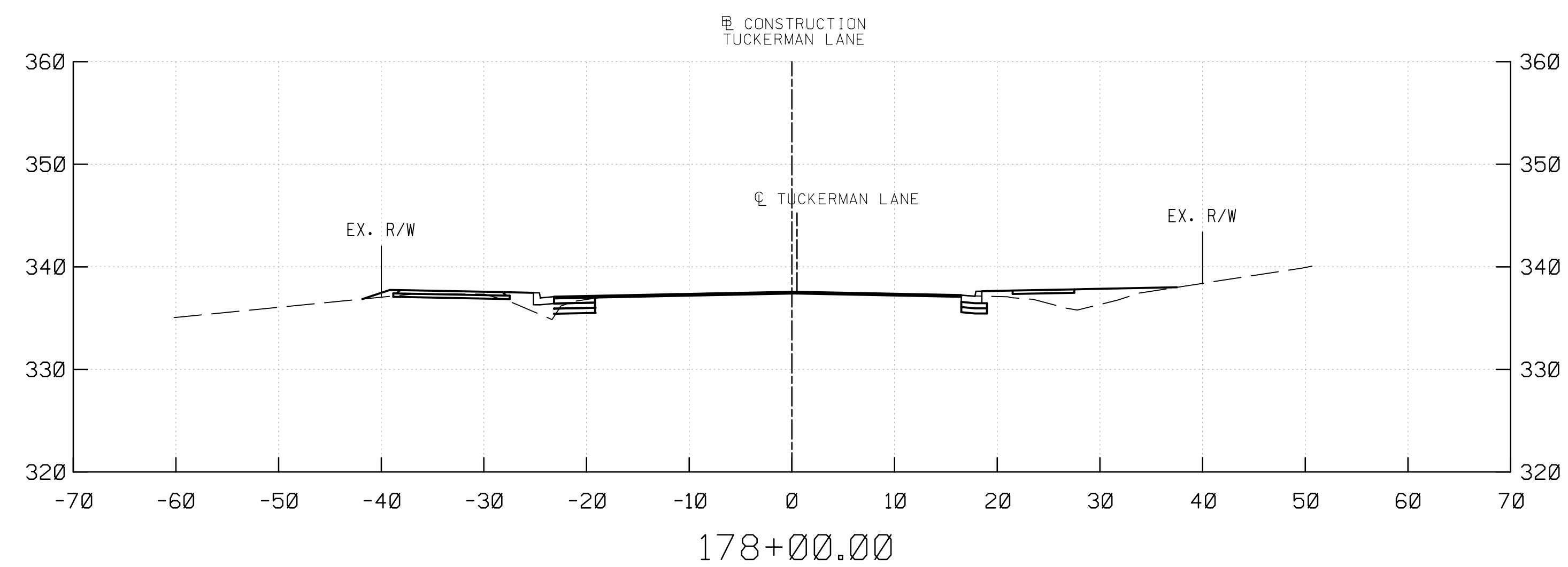
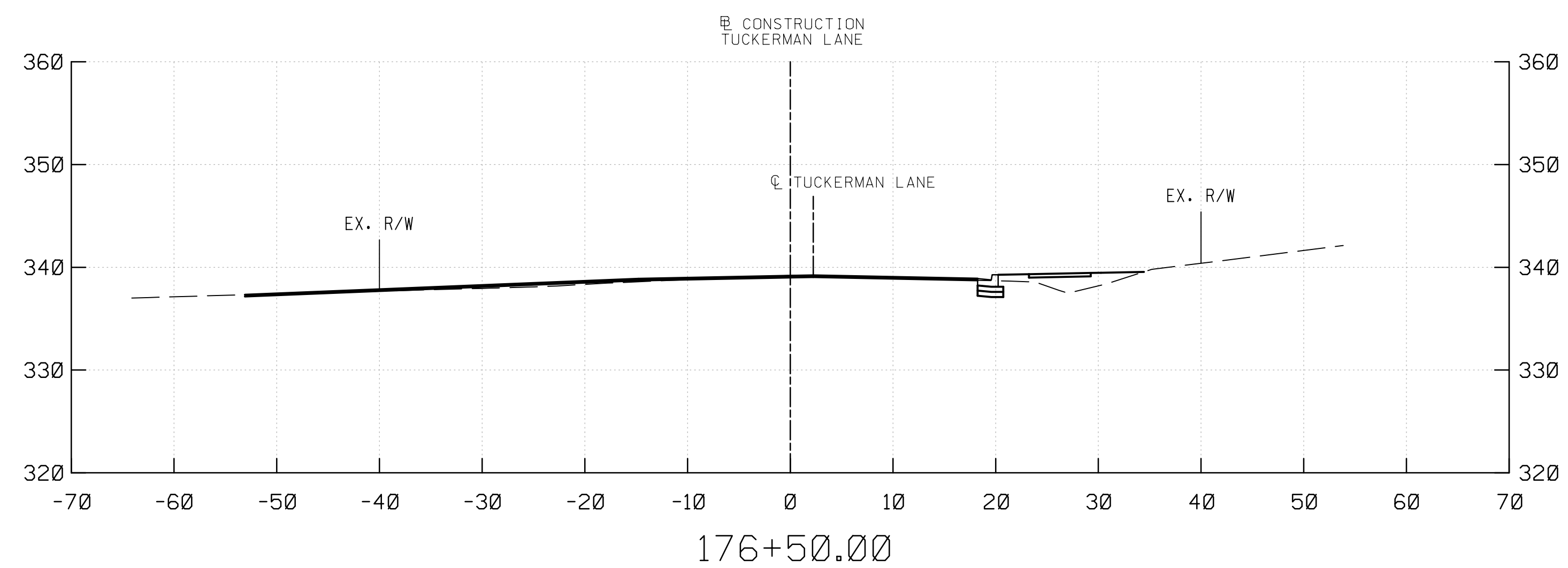
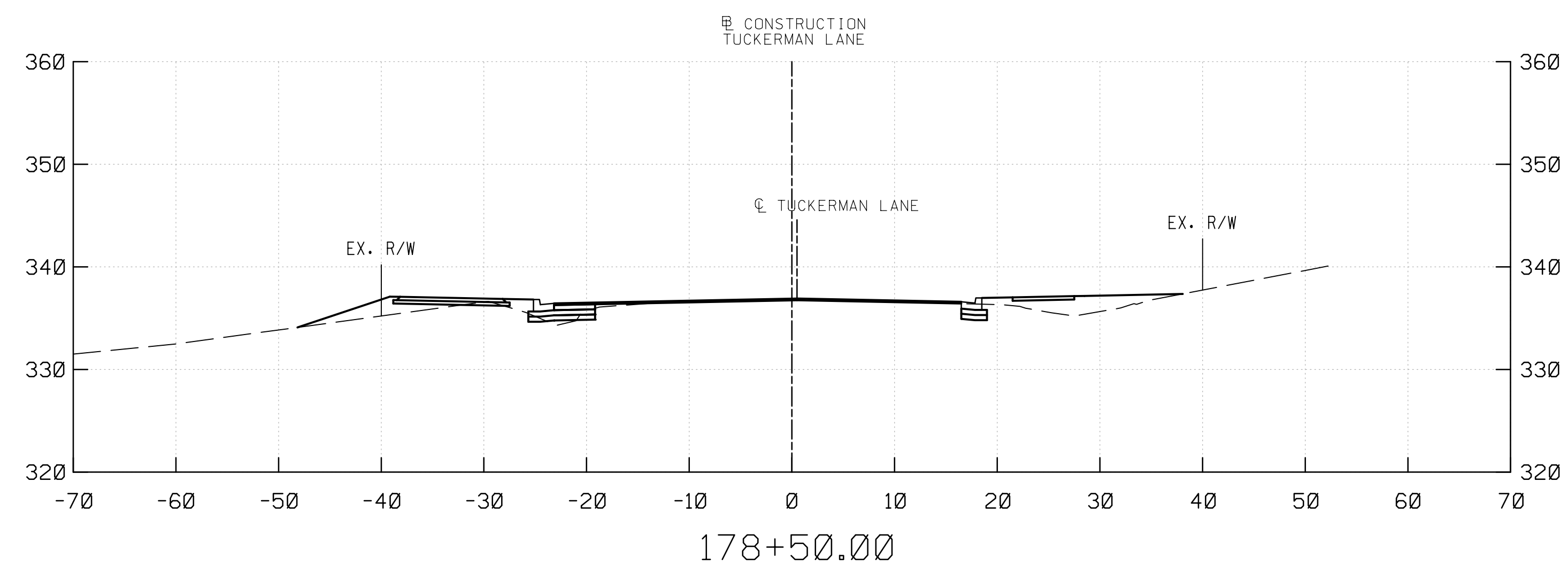
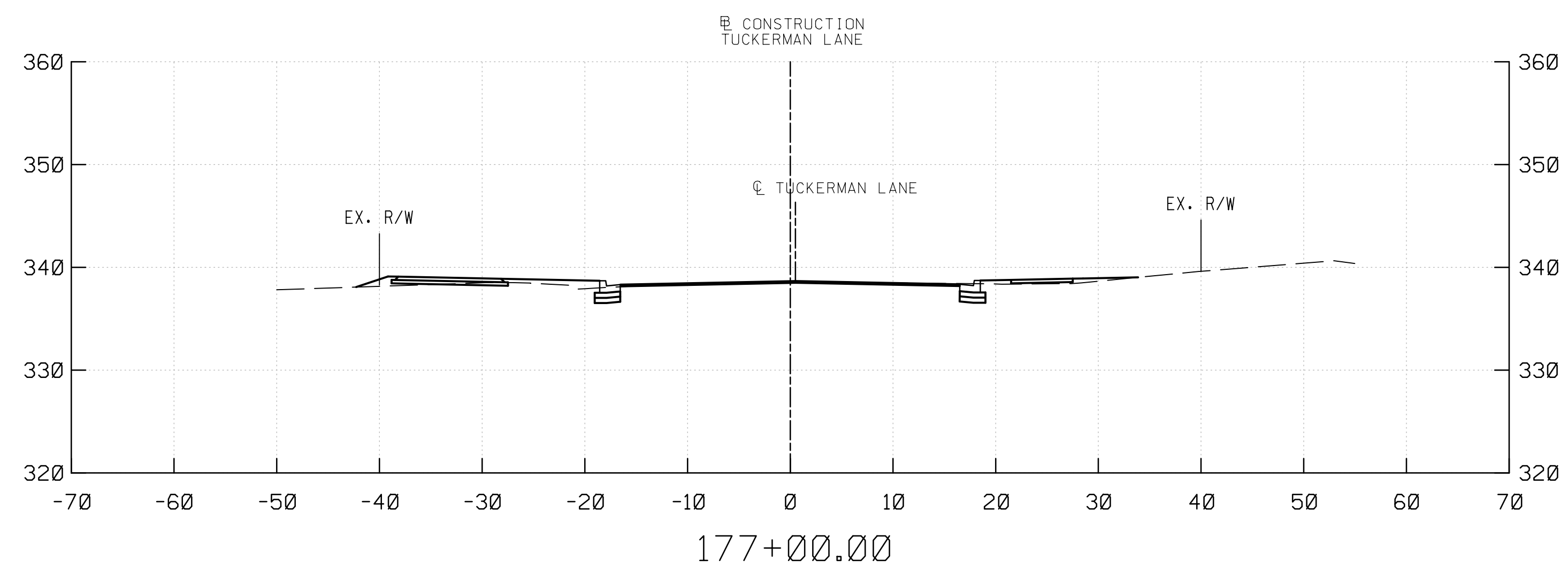
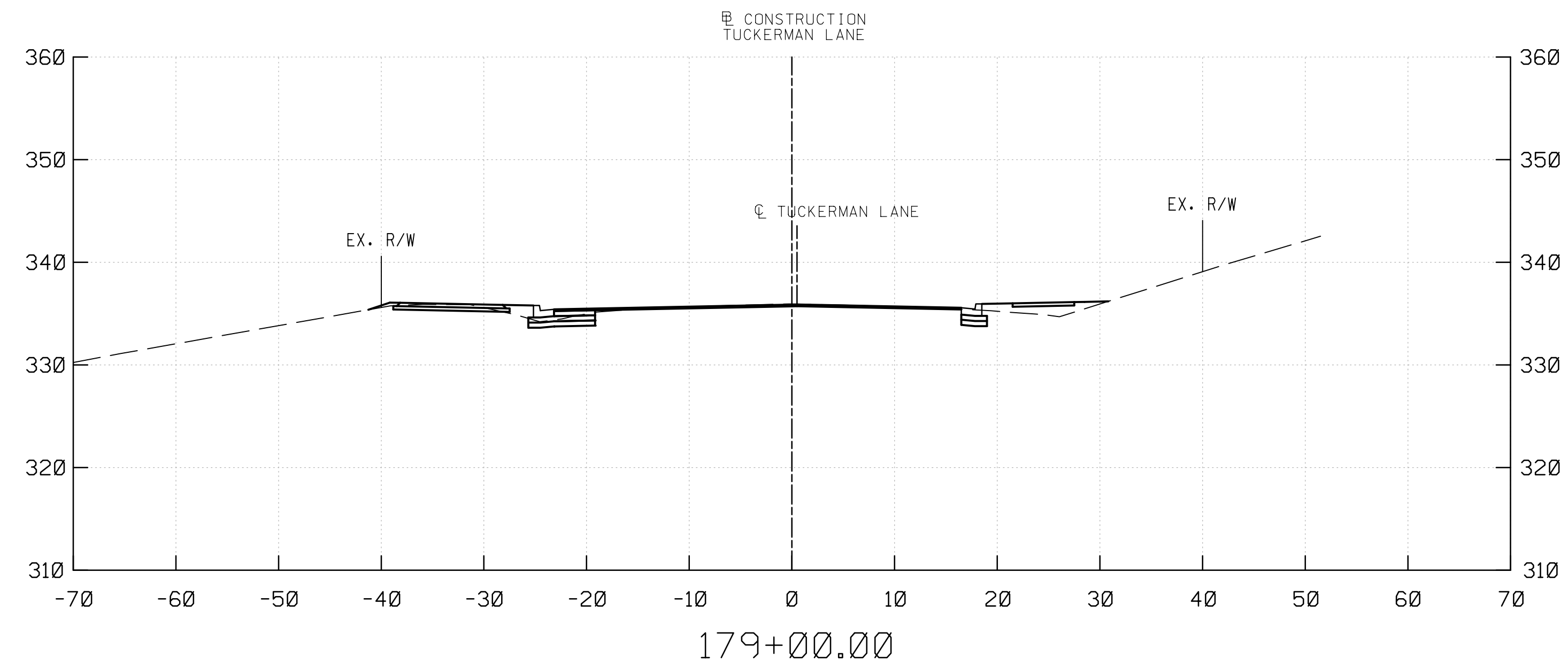
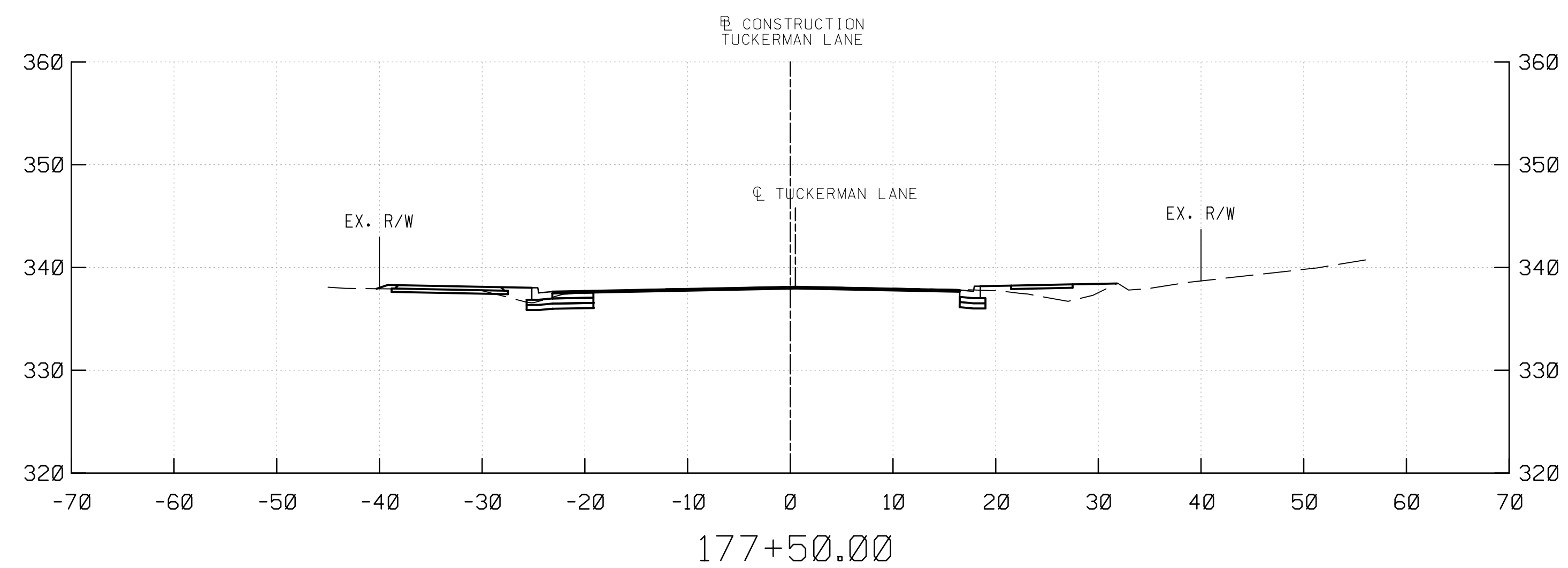
Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

PLAN SHEET CS-27
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 174+00 TO STA. 176+42.50
 SCALE: 1" = 10'

Project No.: C.I.P. PR. # 509337 SHEET 162 of 171



PROFESSIONAL CERTIFICATION
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SEAL
 DATE : 09-17-2021

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DATUM: NAD 83/91 HORIZONTAL
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MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

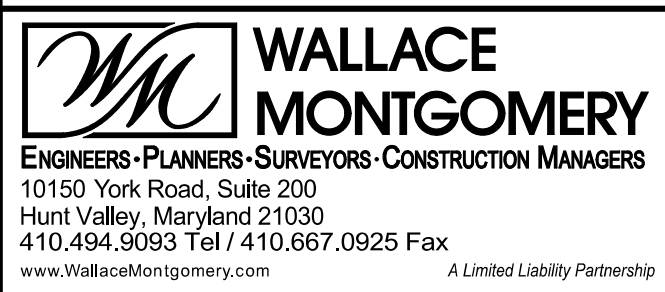
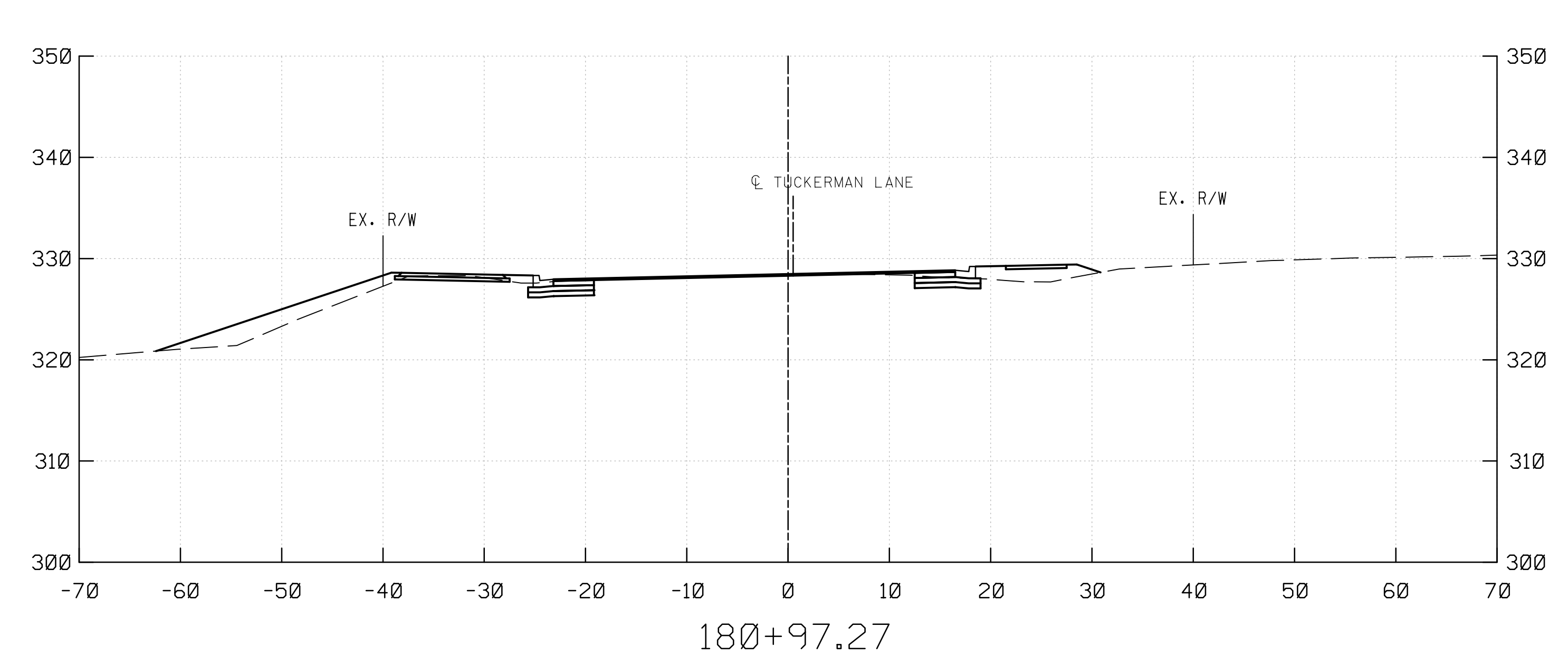
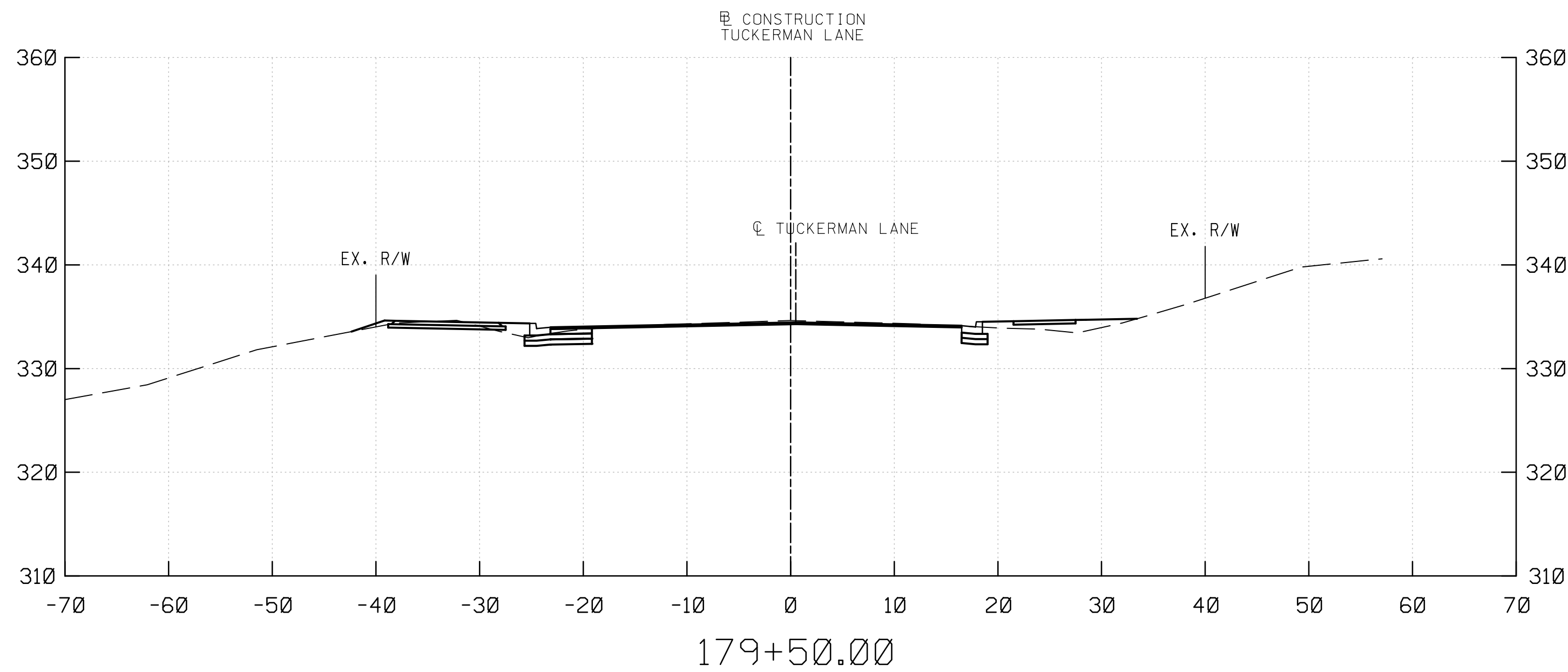
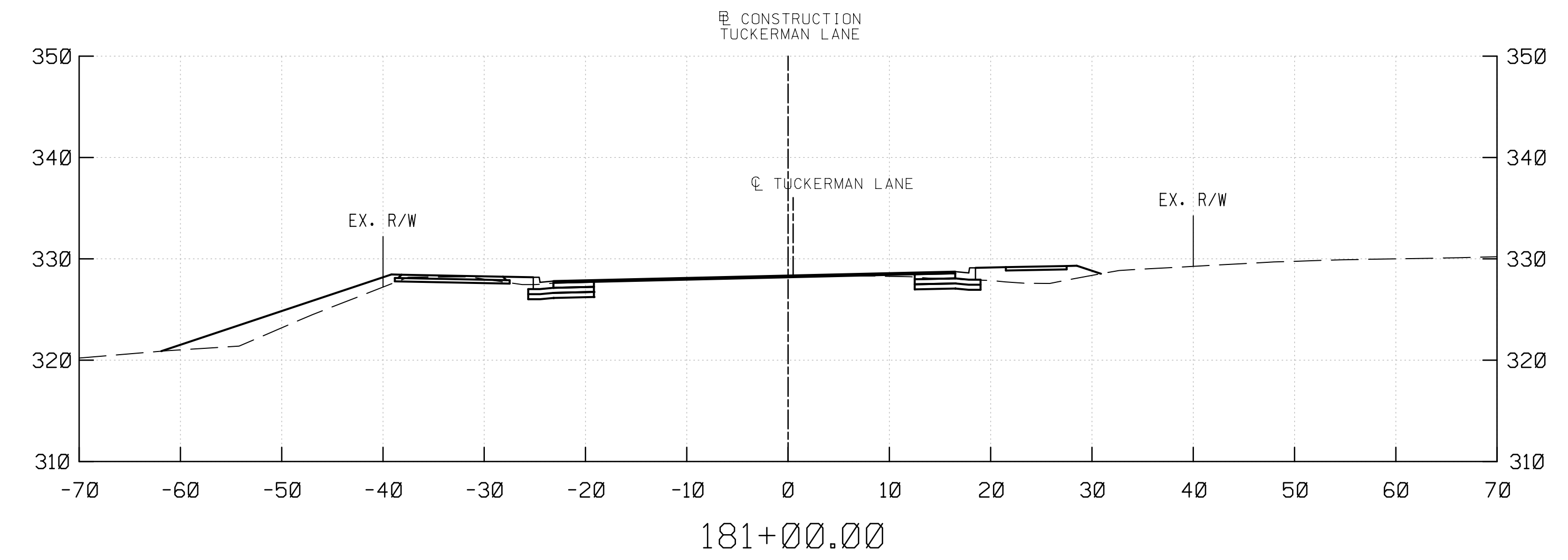
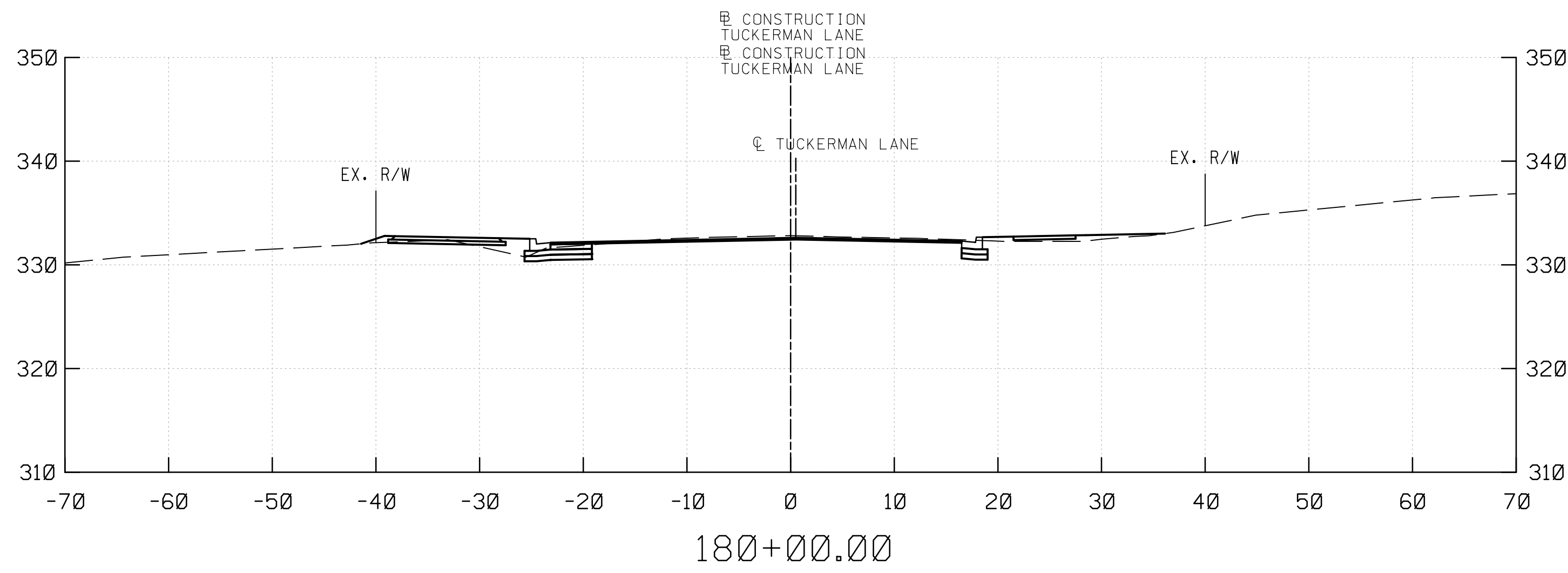
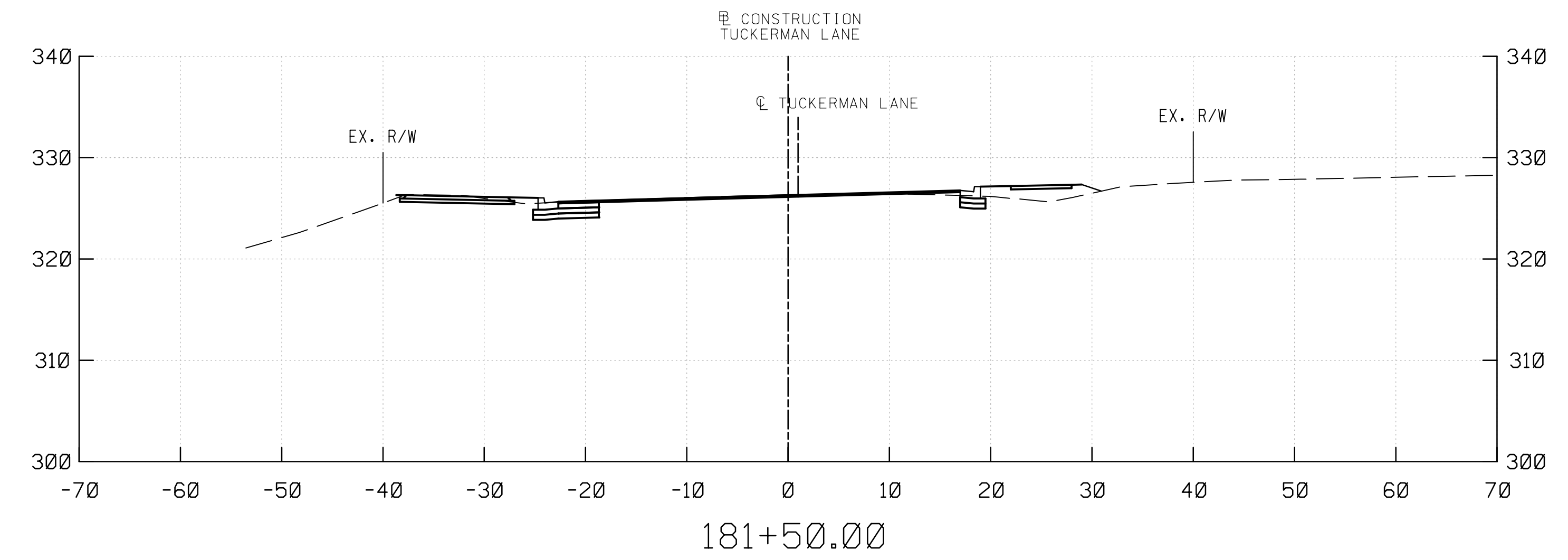
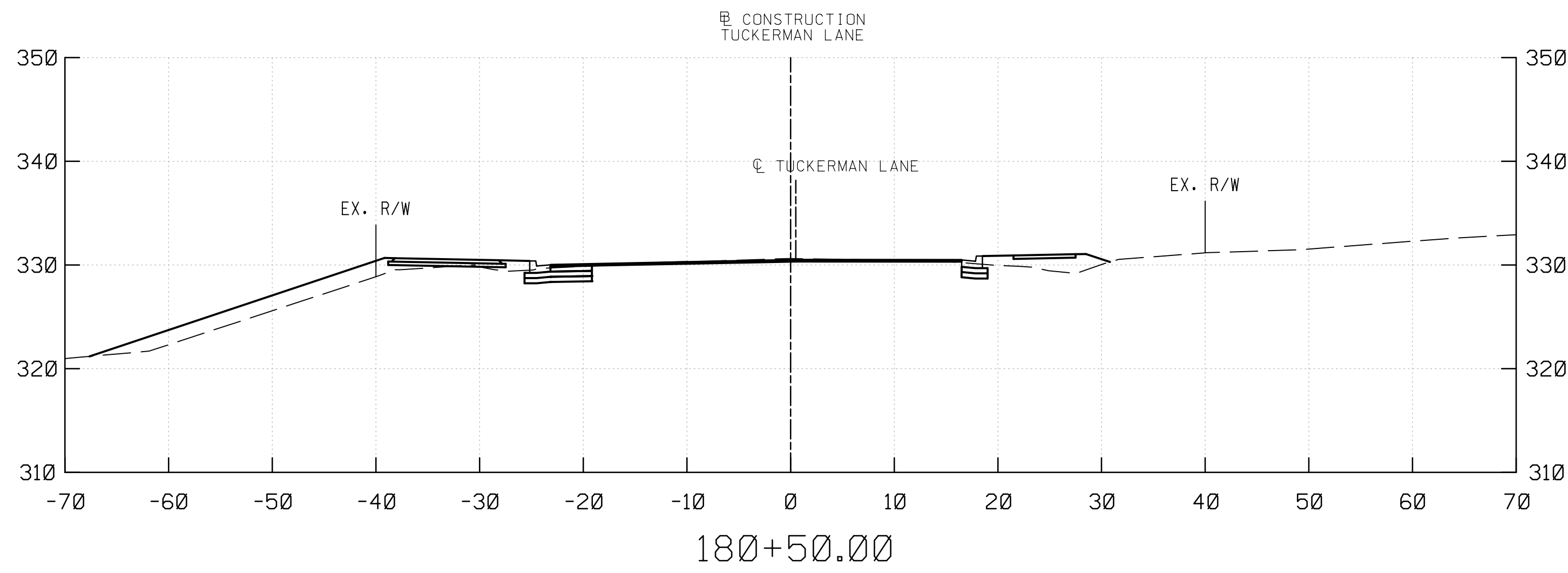
Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by : _____ Drawn by : _____ Checked by : _____

PLAN SHEET CS-28
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 176+50 TO STA. 179+00
 SCALE : 1" = 10' 09/2021

Project No. : C.I.P. PR. # 509337 SHEET 163 of 171



PROFESSIONAL CERTIFICATION
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 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL
 DATE: 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

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MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

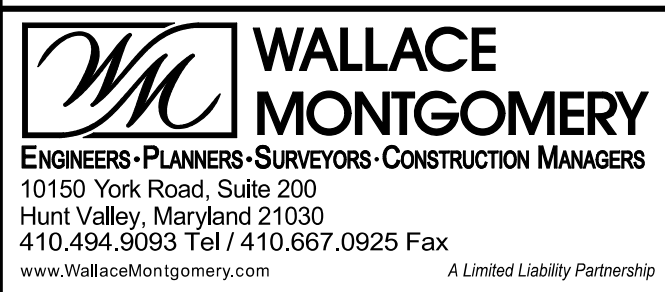
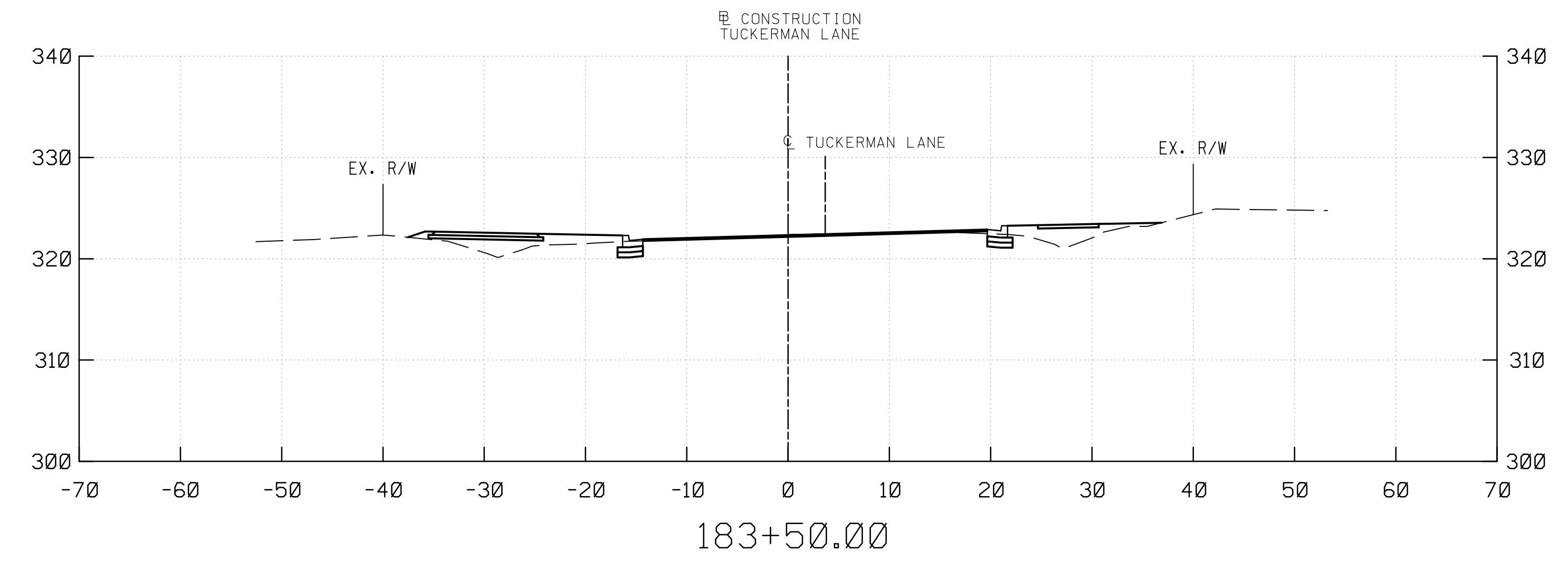
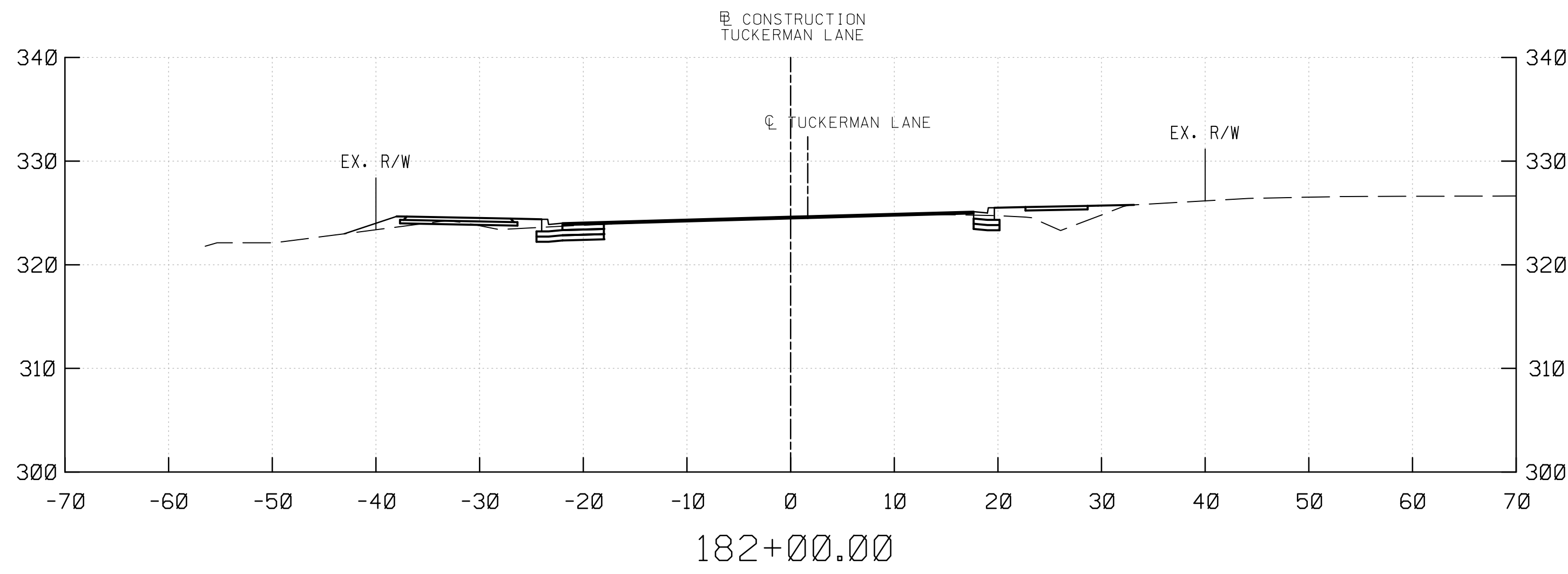
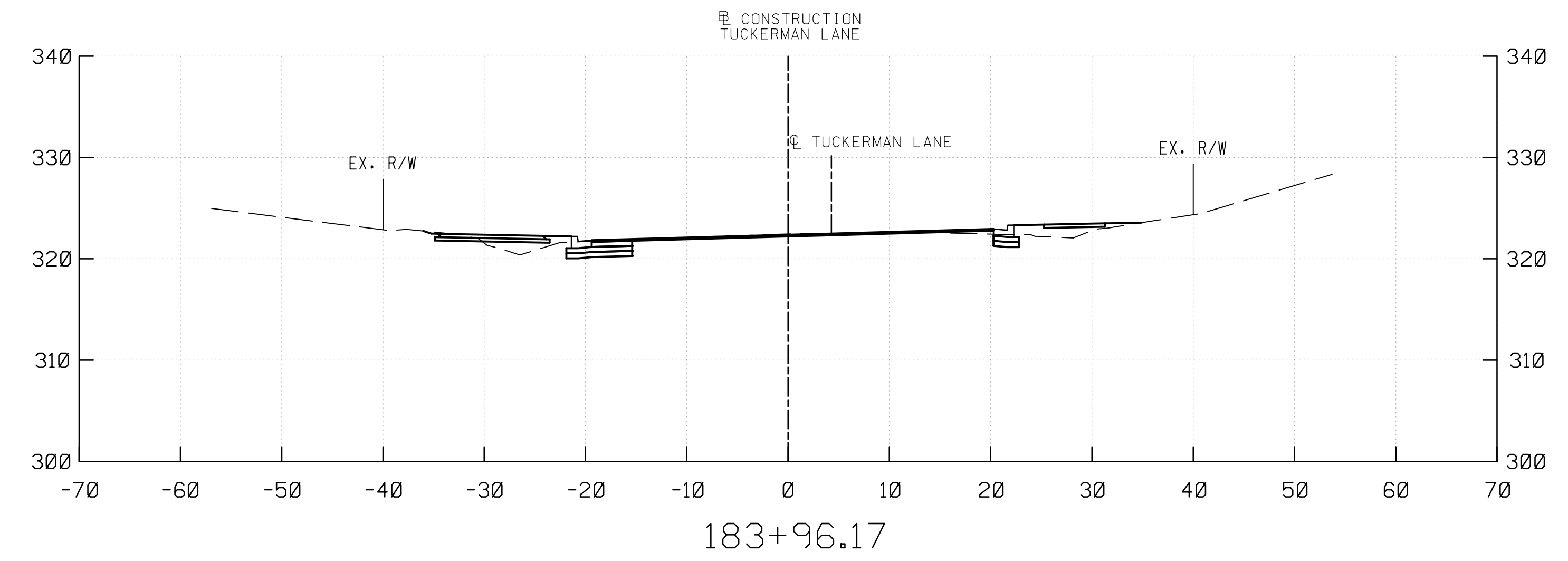
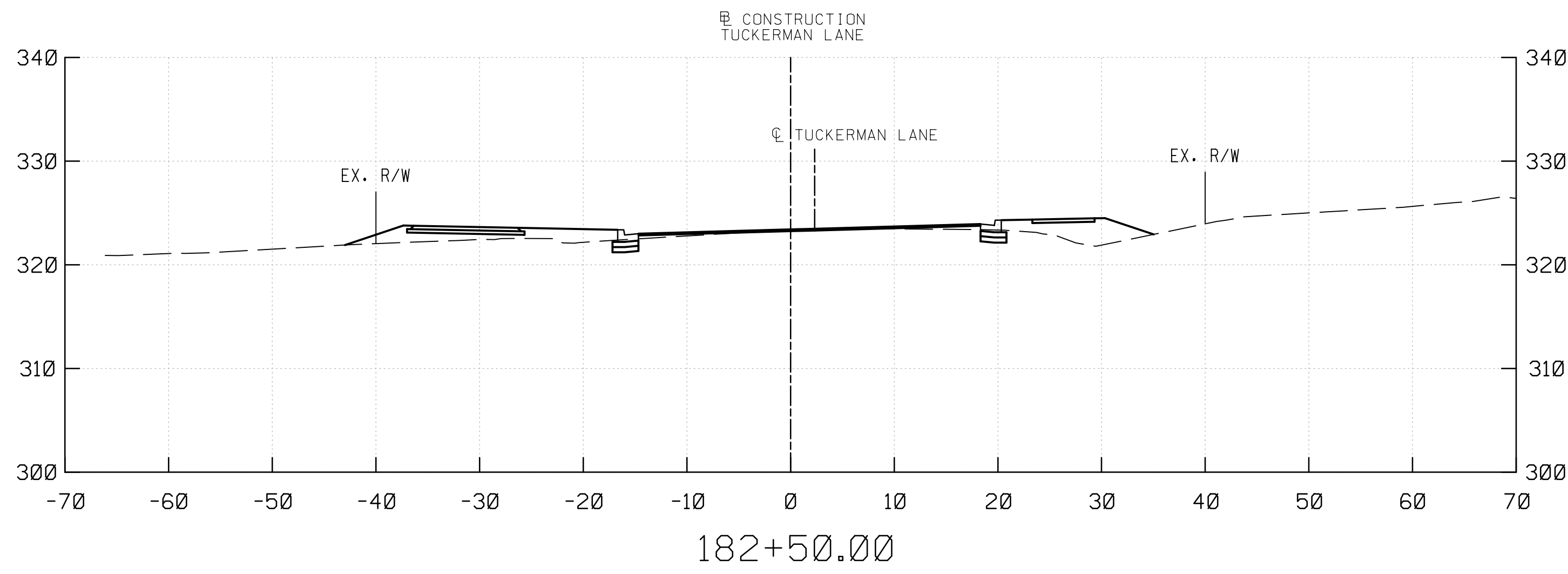
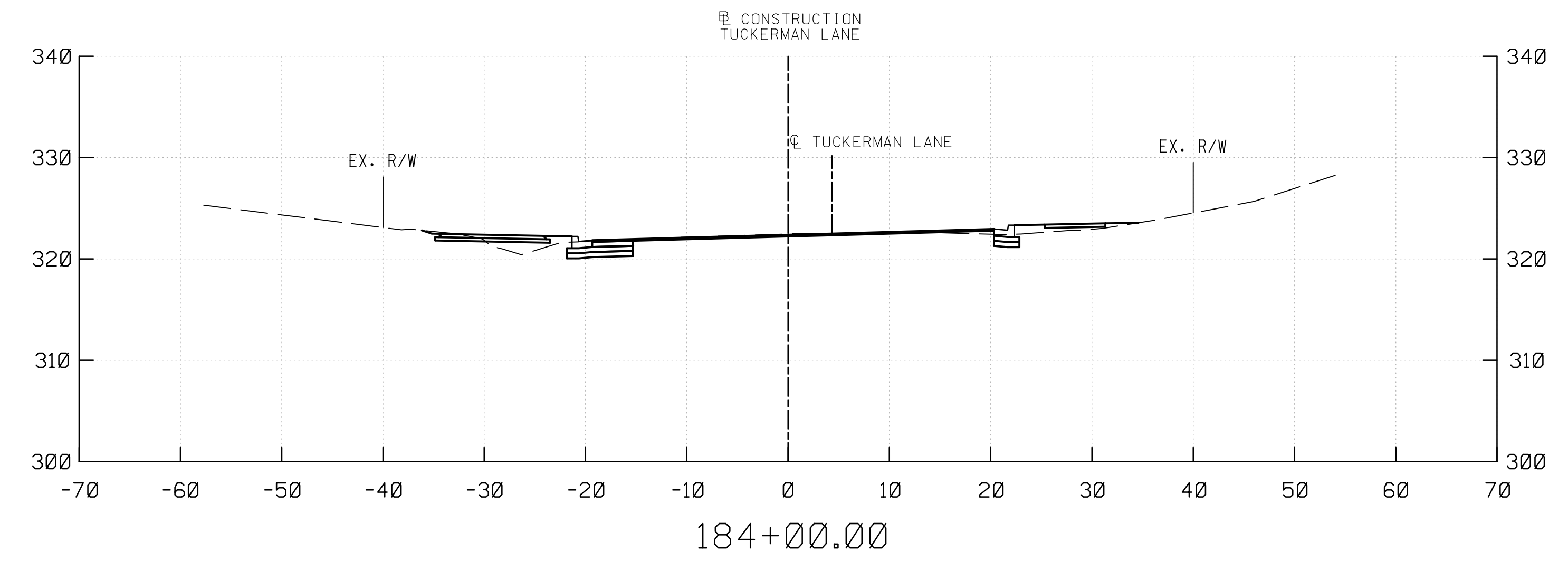
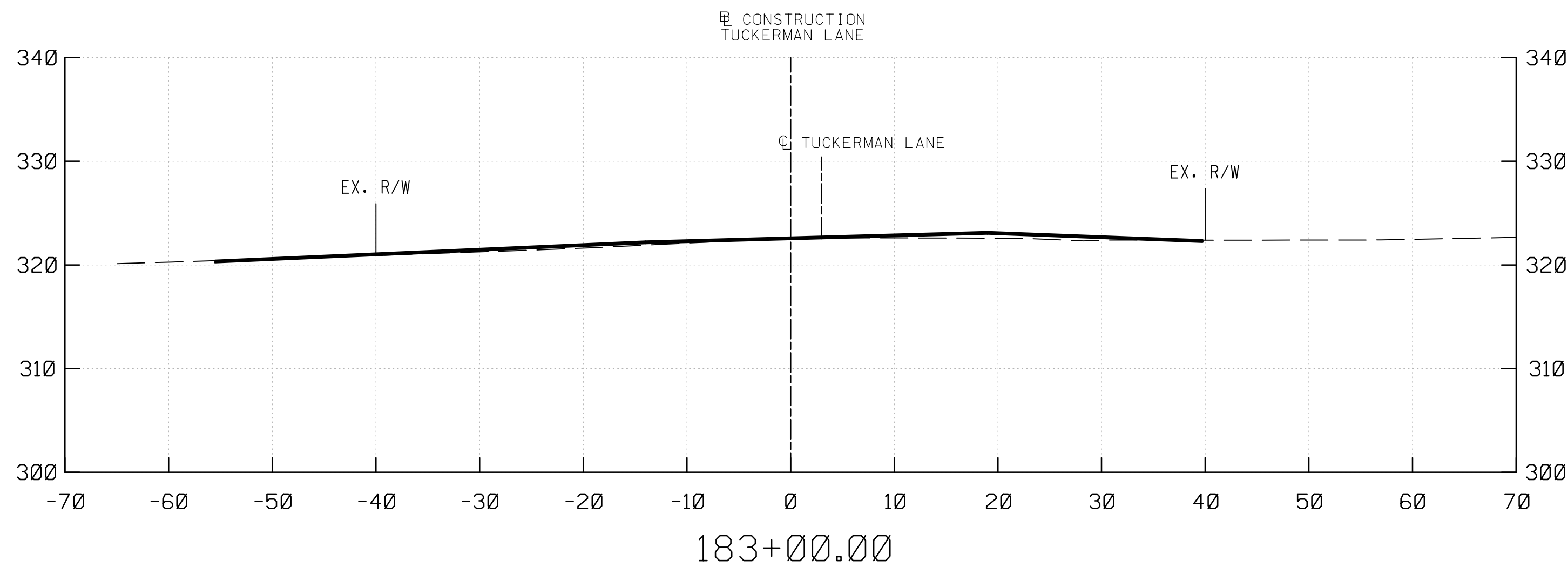
RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

PLAN SHEET CS-29
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 179+50 TO STA. 181+50
 SCALE: 1"= 10'
 Project No.: C.I.P. PR. # 509337 SHEET 164 of 171



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD NO-31487 EXP-03/18/2023

SEAL
 DATE : 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

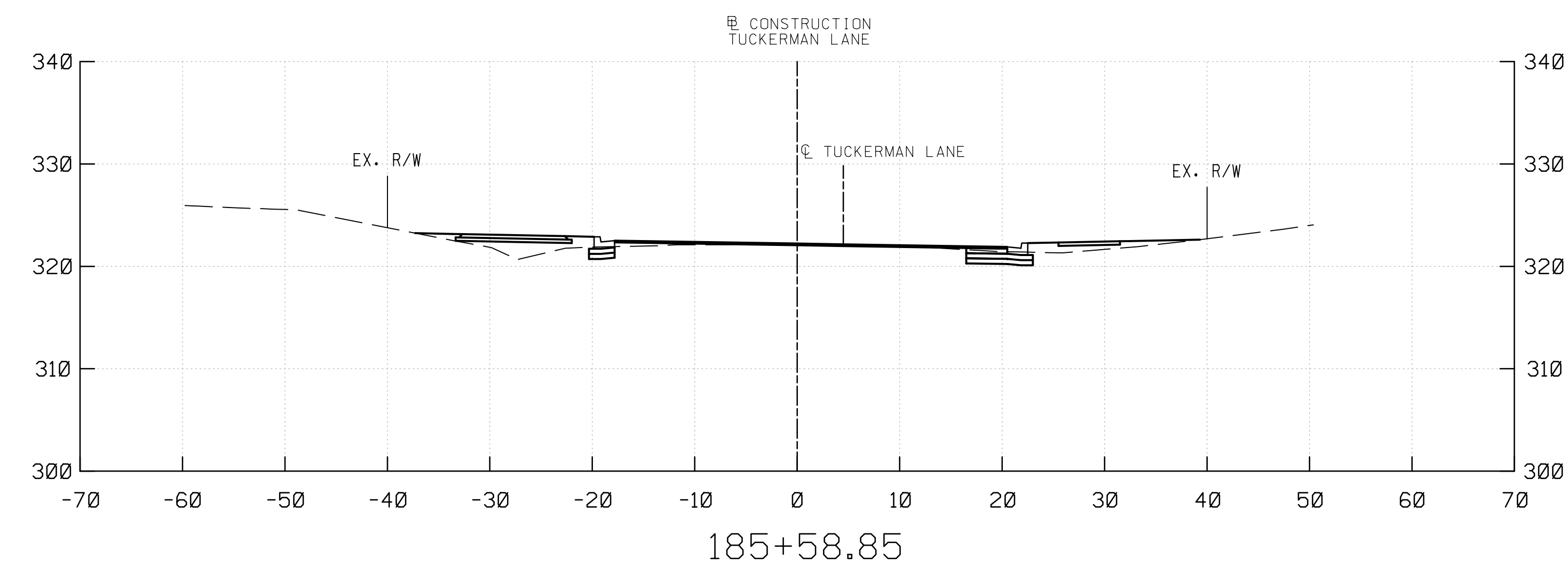
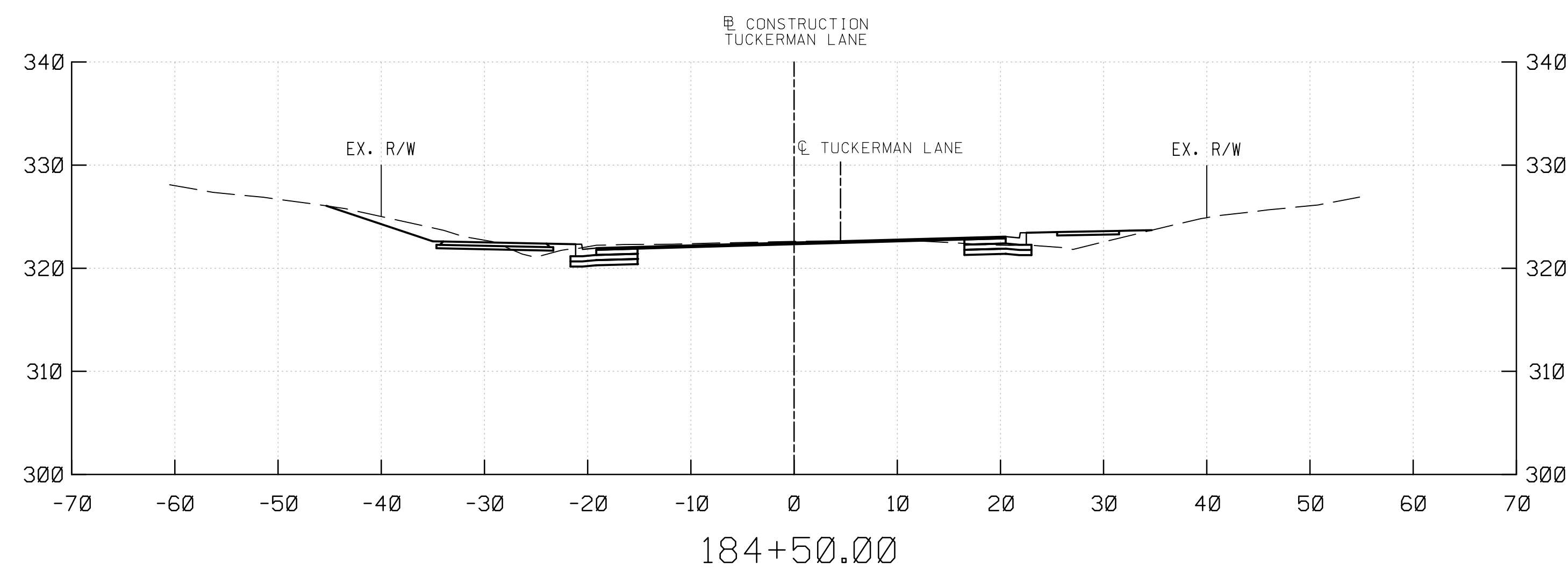
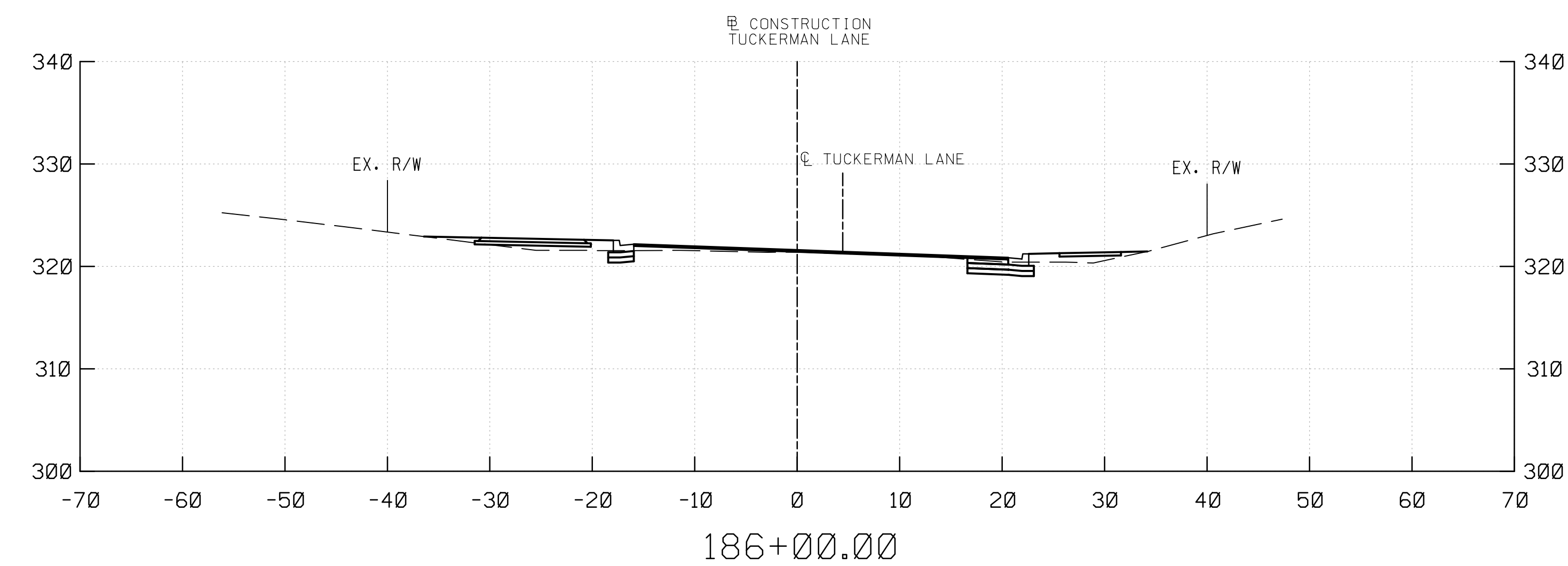
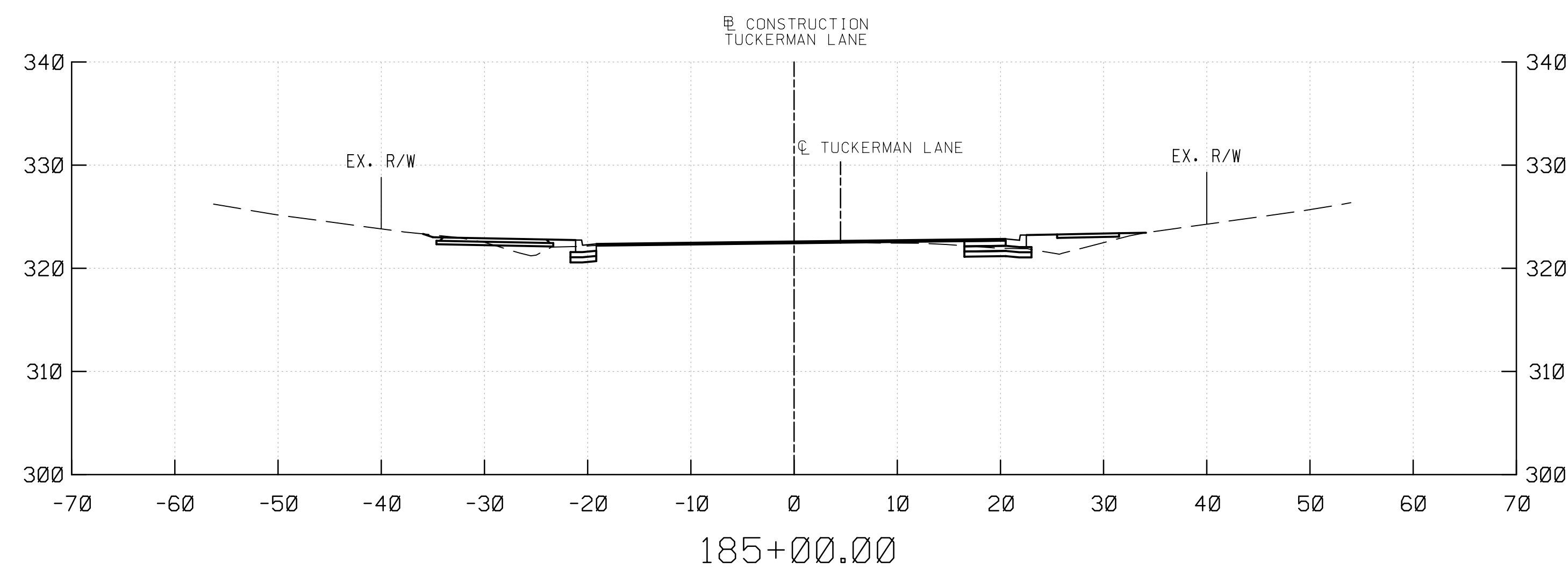
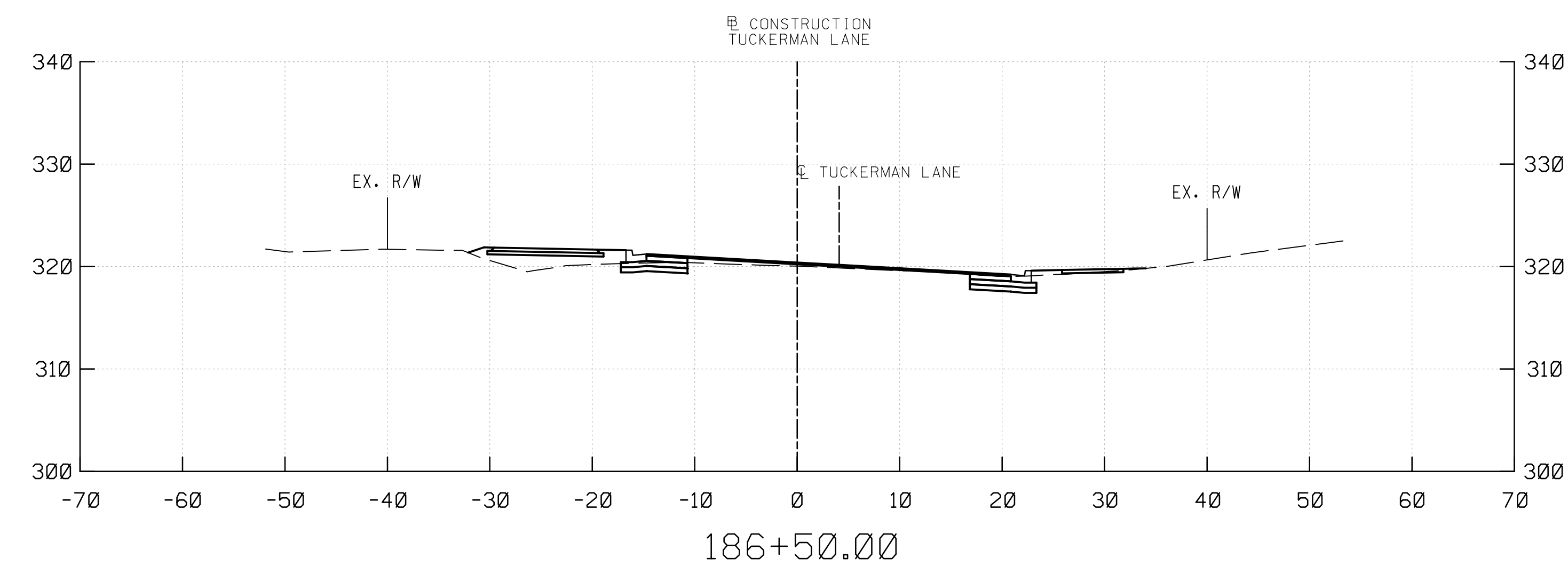
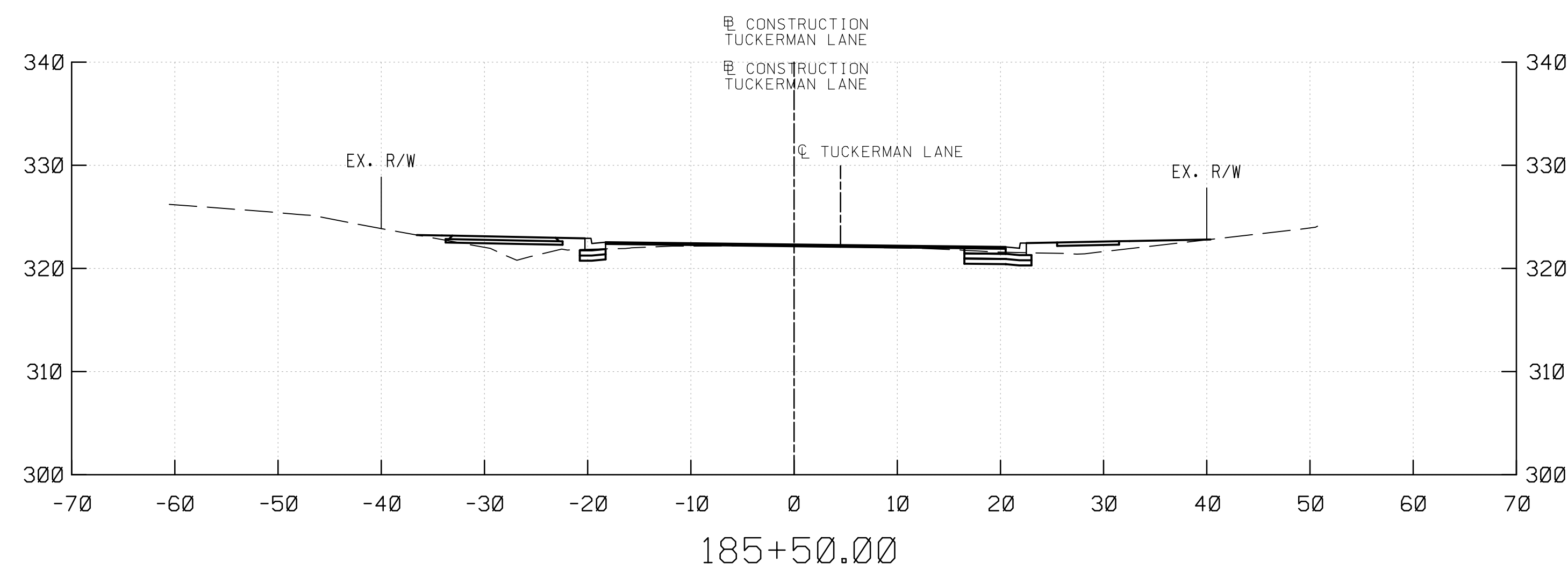
Chief, Division of Engineering Services _____ Date _____

Designed by : _____ Drawn by : _____ Checked by : _____

**PLAN SHEET CS-30
 ROADWAY CROSS SECTIONS
 TUCKERMAN LANE
 SIDEWALK/BIKEWAY
 PROJECT - SEGMENT 1
 STA. 182+00 TO STA. 184+00**

SCALE : 1"= 10' 09/2021

Project No. : C.I.P. PR. # 509337 SHEET 165 of 171



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL
 DATE: 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

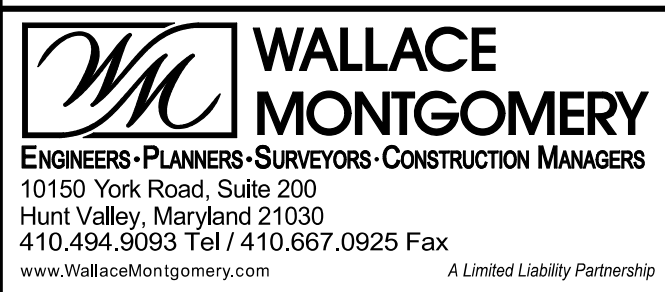
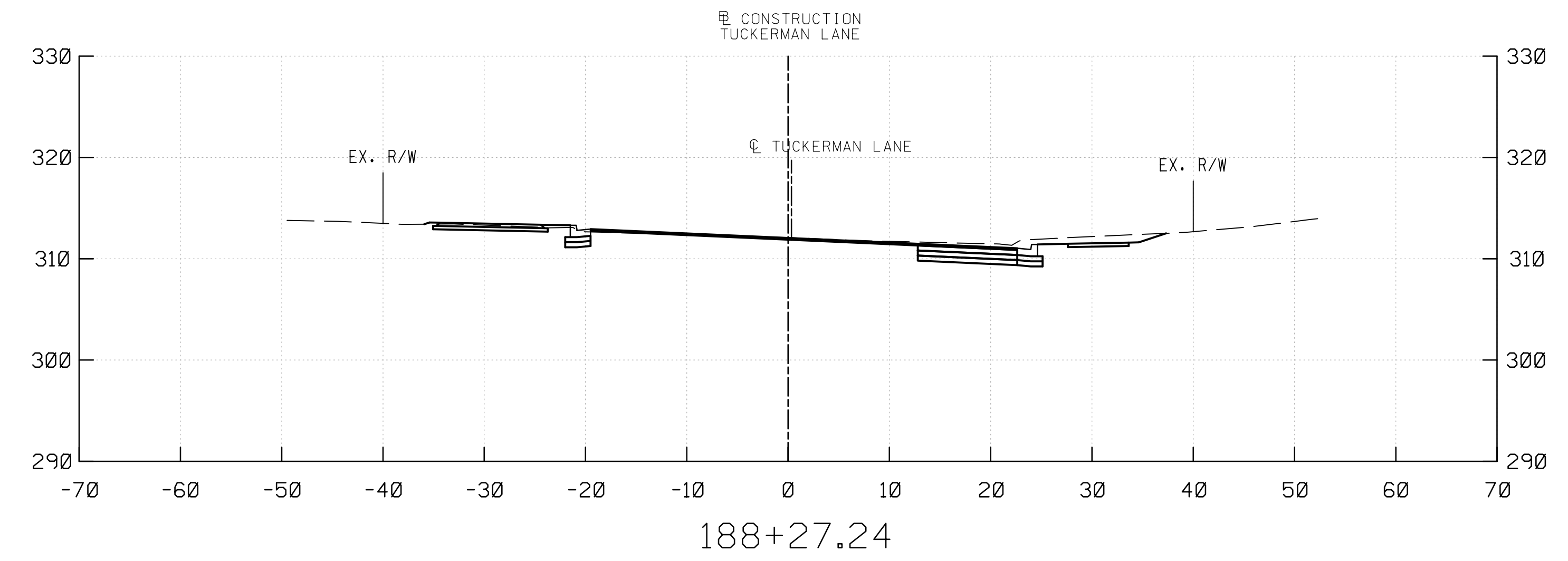
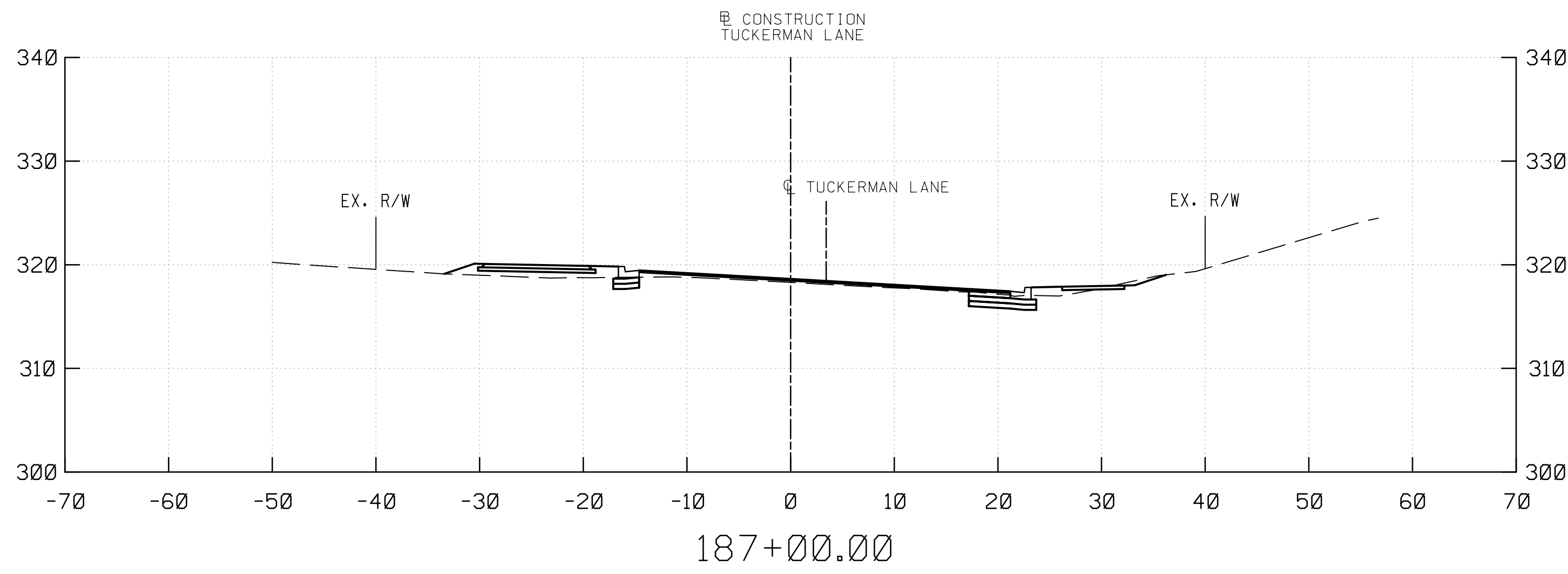
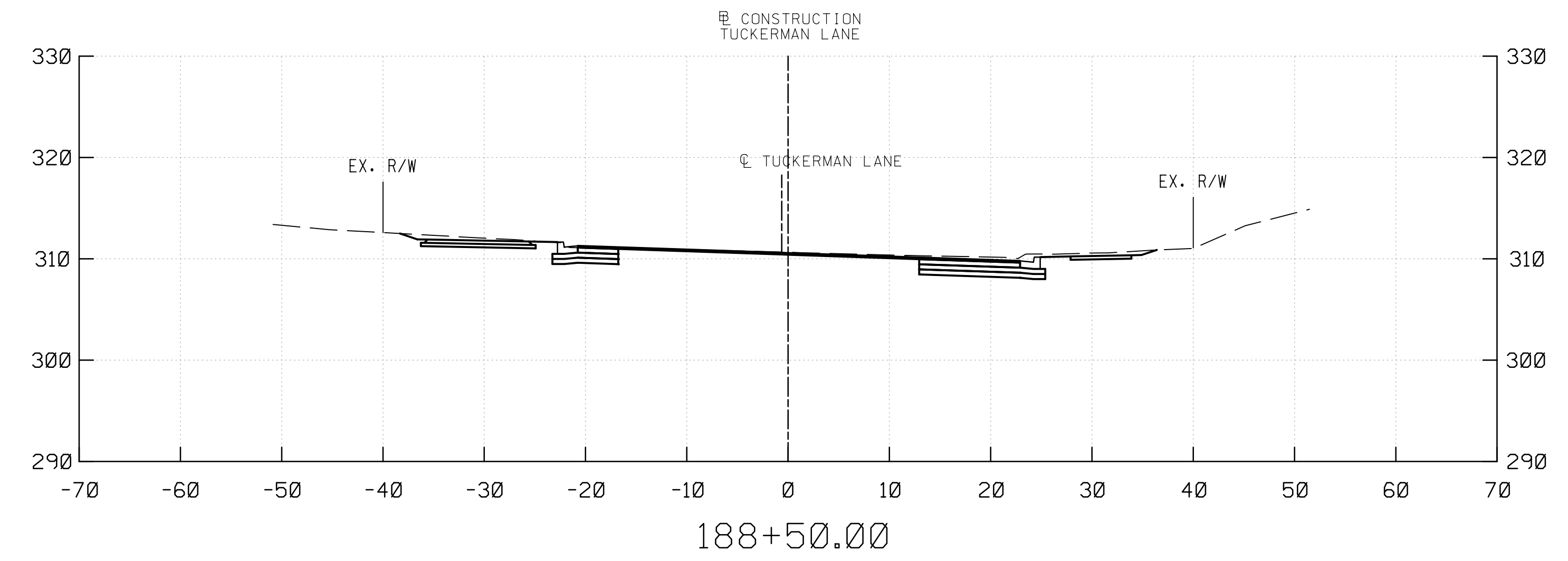
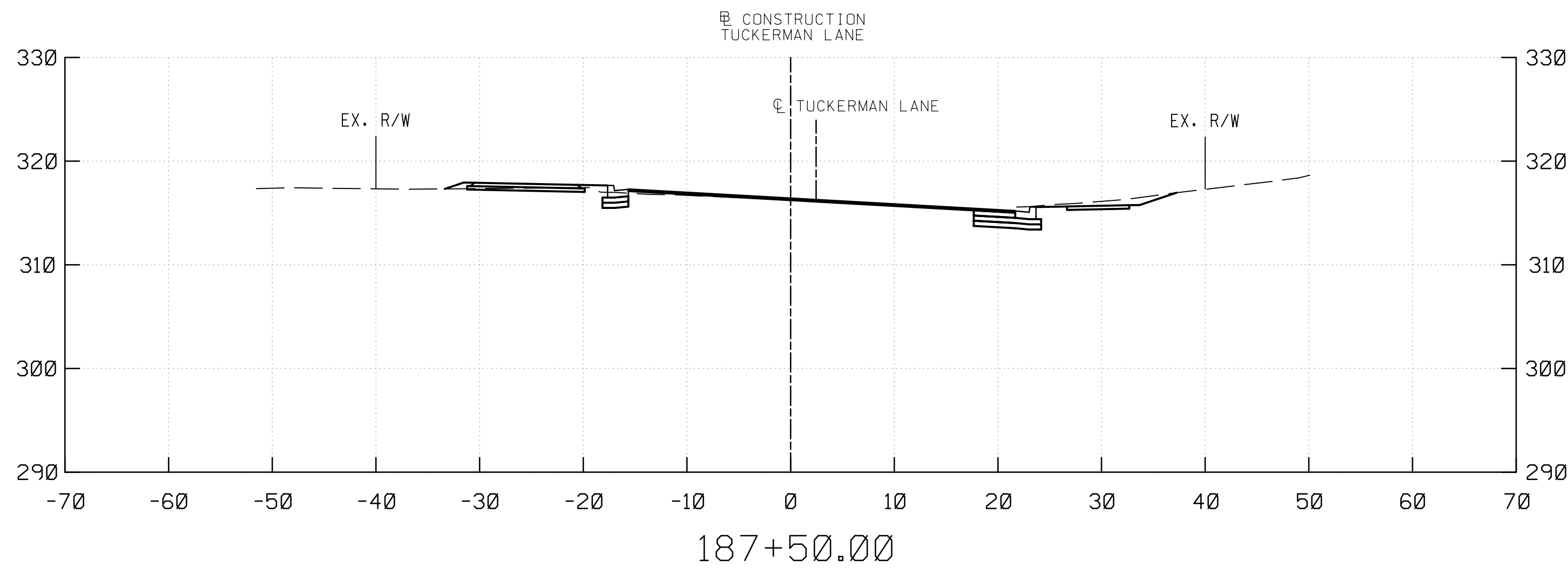
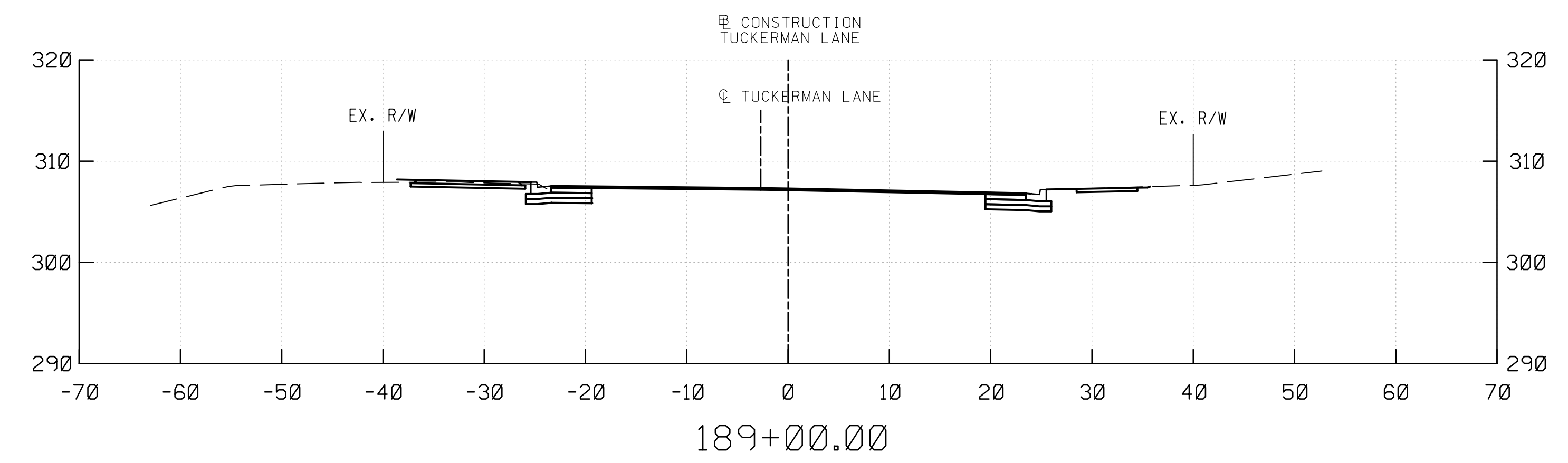
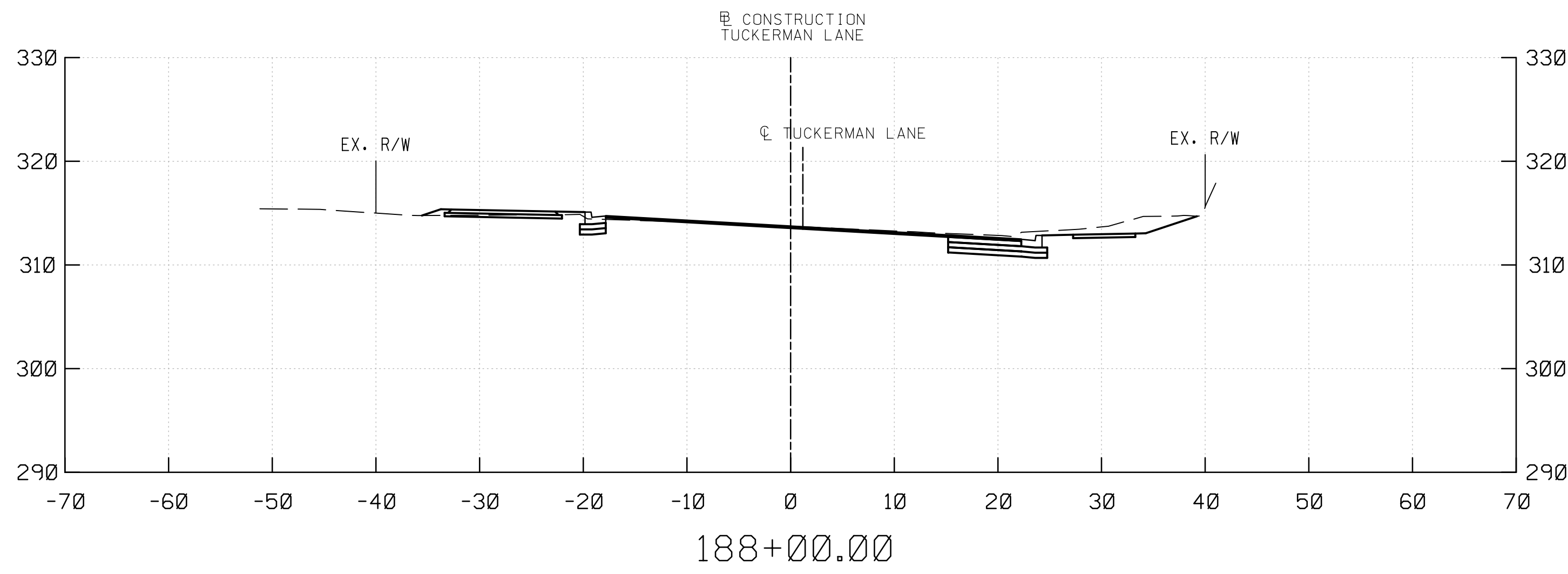
RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

PLAN SHEET CS-31
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 184+50 TO STA. 186+50
 SCALE: 1"= 10'
 Project No.: C.I.P. PR. # 509337 SHEET 166 of 171



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD NO-31487 EXP-03/18/2023

SEAL
 DATE : 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

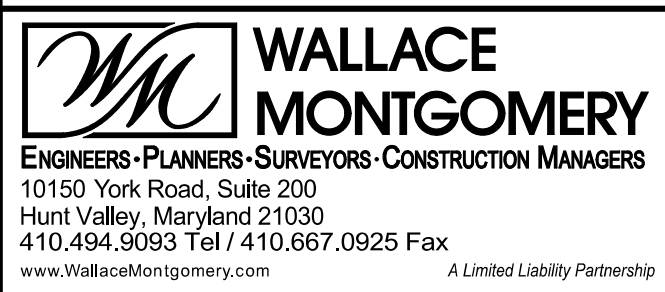
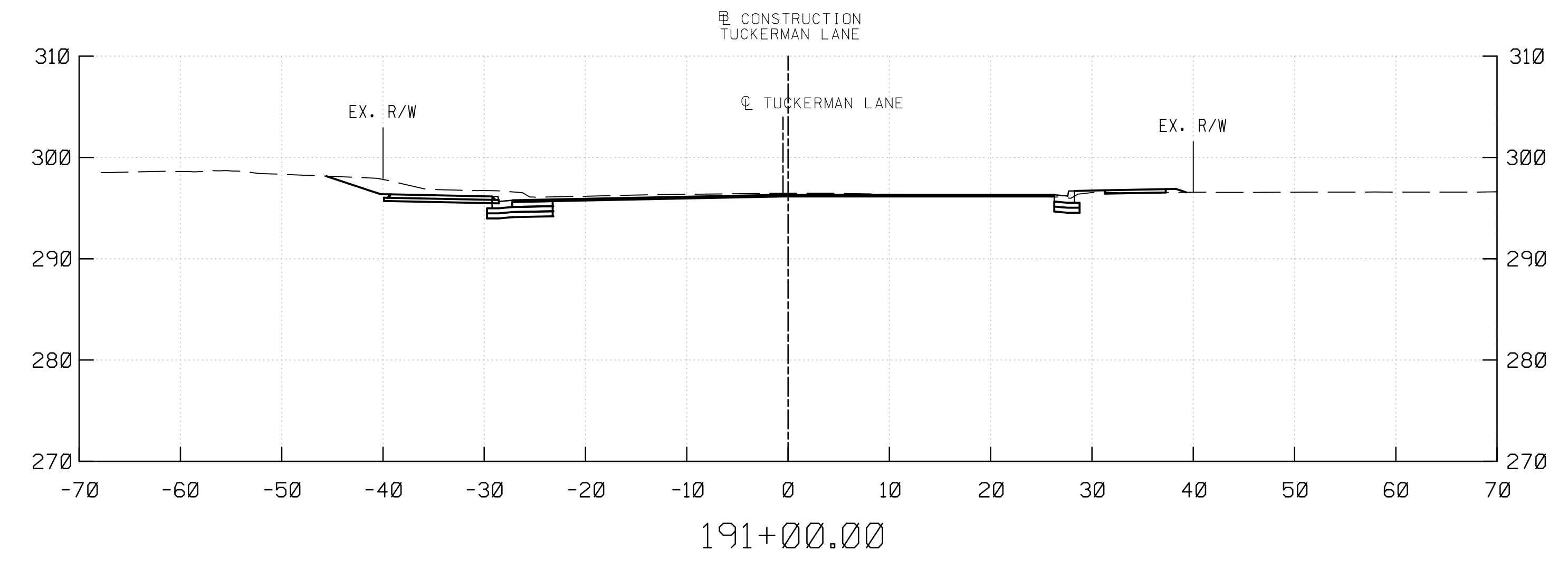
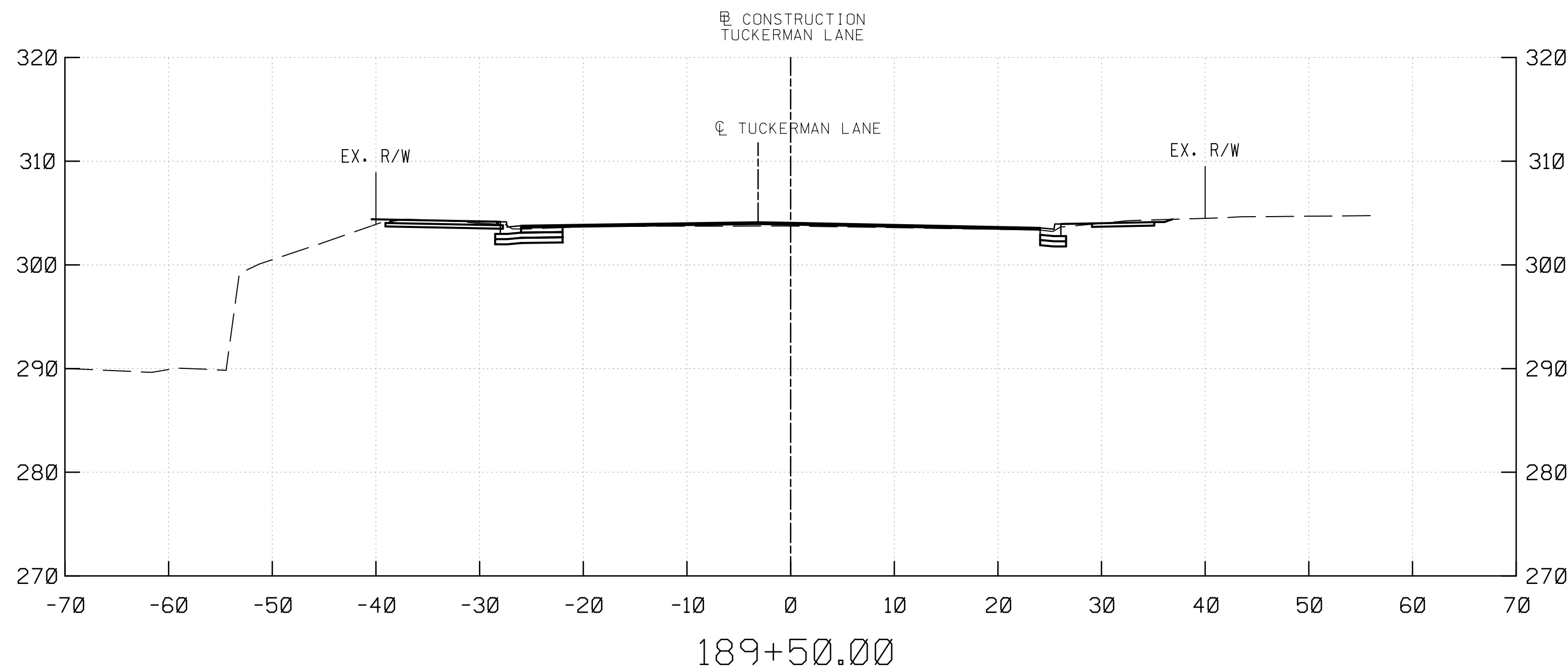
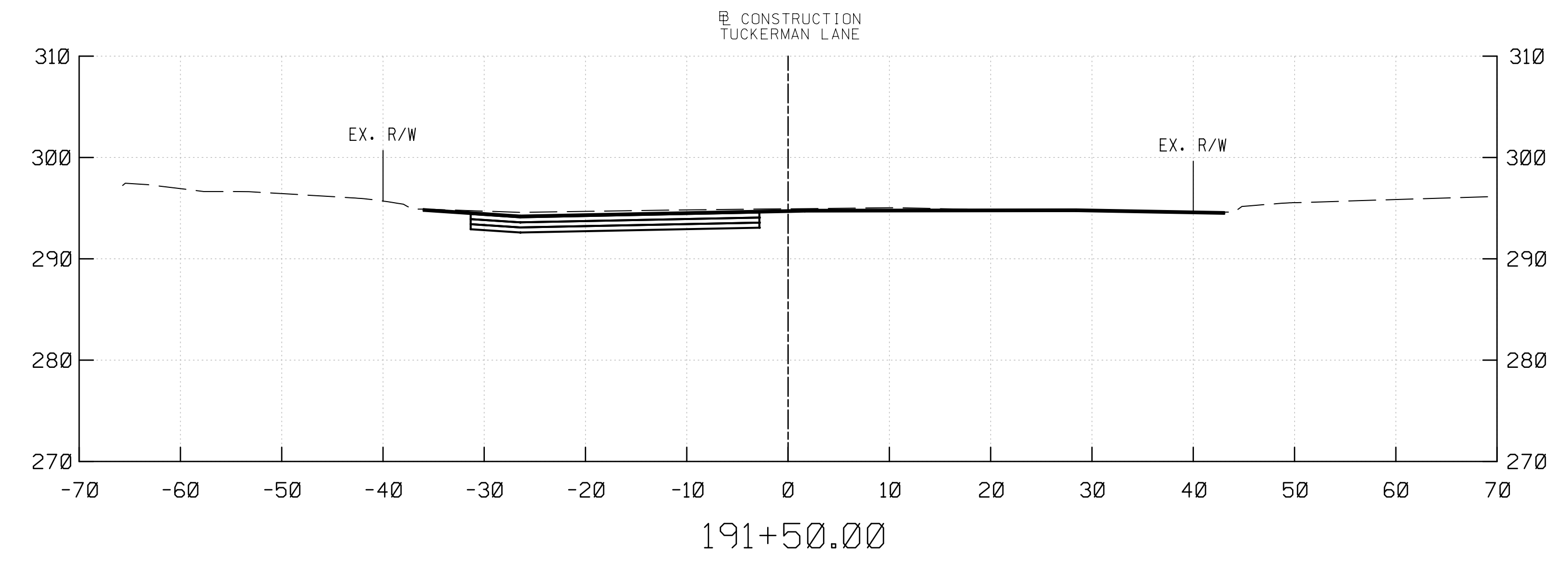
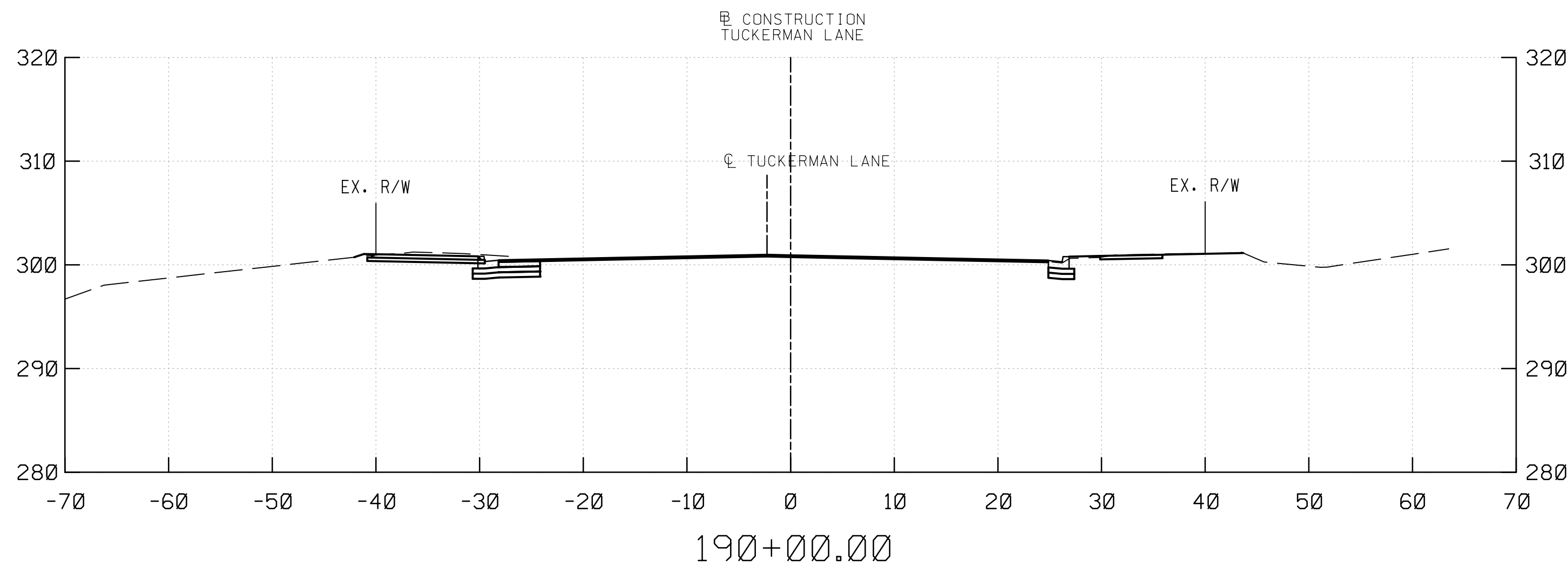
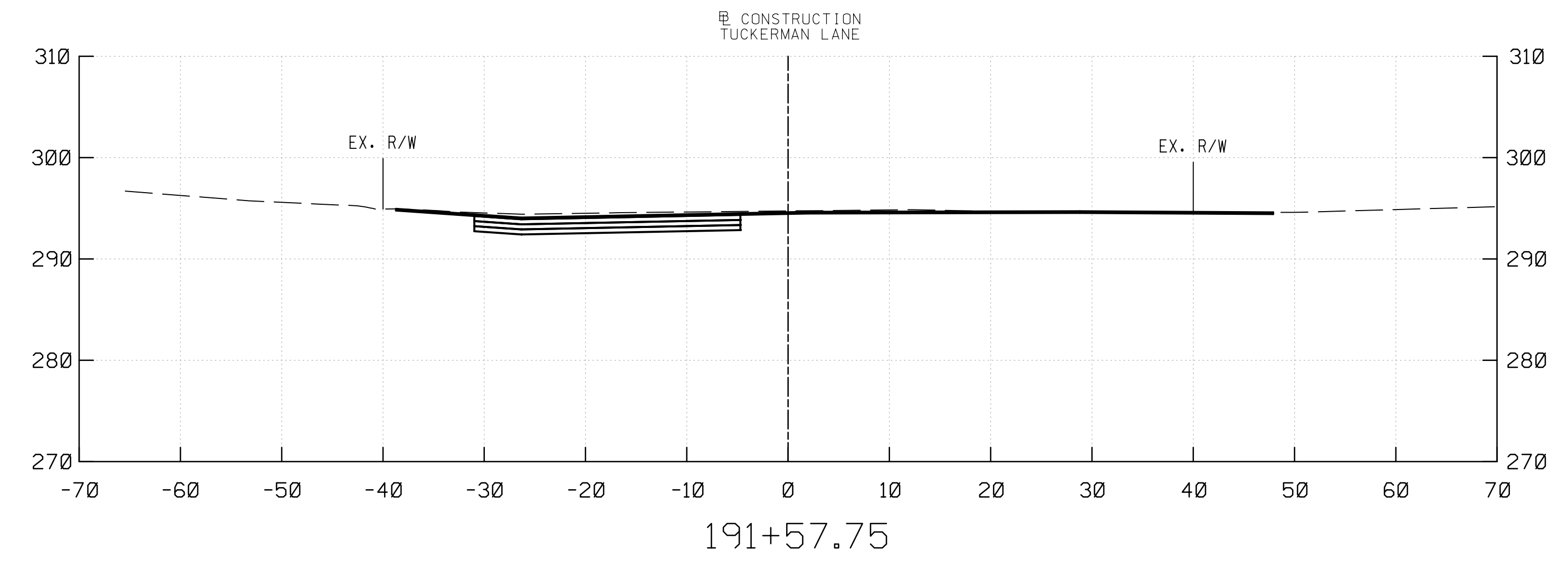
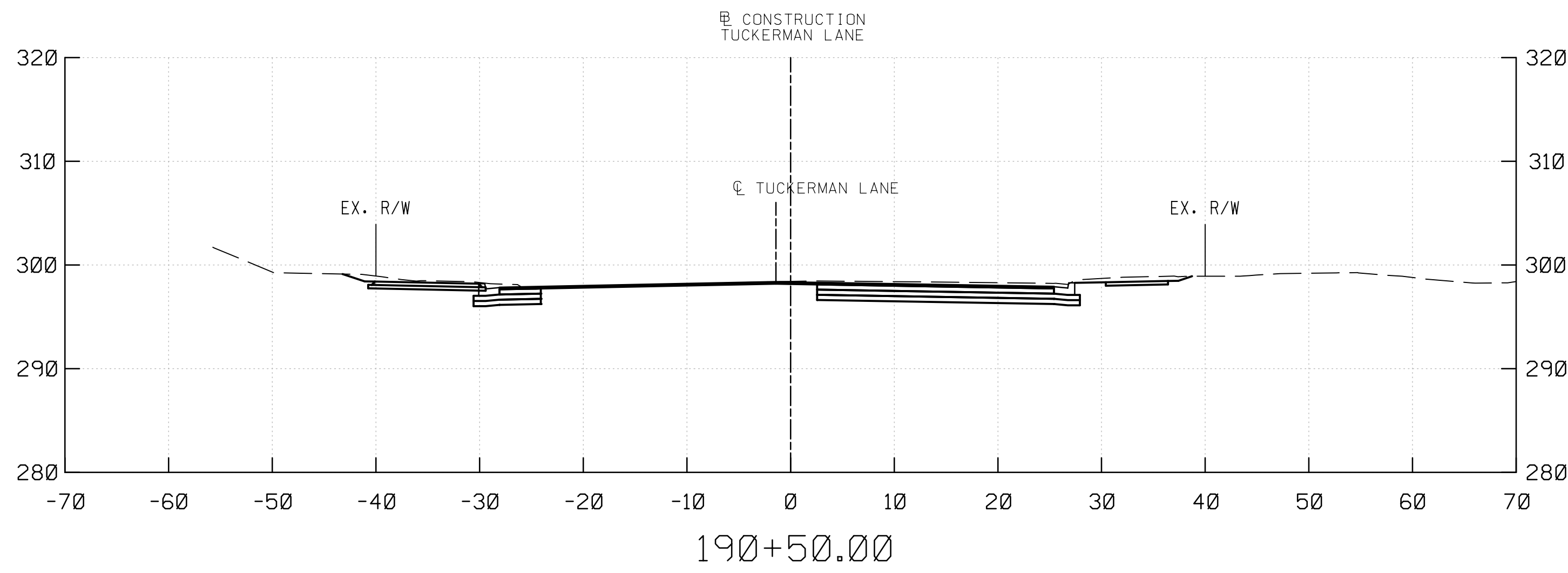
Chief, Division of Engineering Services _____ Date _____

Designed by : _____ Drawn by : _____ Checked by : _____

**PLAN SHEET CS-32
 ROADWAY CROSS SECTIONS
 TUCKERMAN LANE
 SIDEWALK/BIKEWAY
 PROJECT - SEGMENT 1
 STA. 187+00 TO STA. 189+00**

SCALE : 1"= 10' 09/2021

Project No. : C.I.P. PR. # 509337 SHEET 167 of 171



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL
 DATE : 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

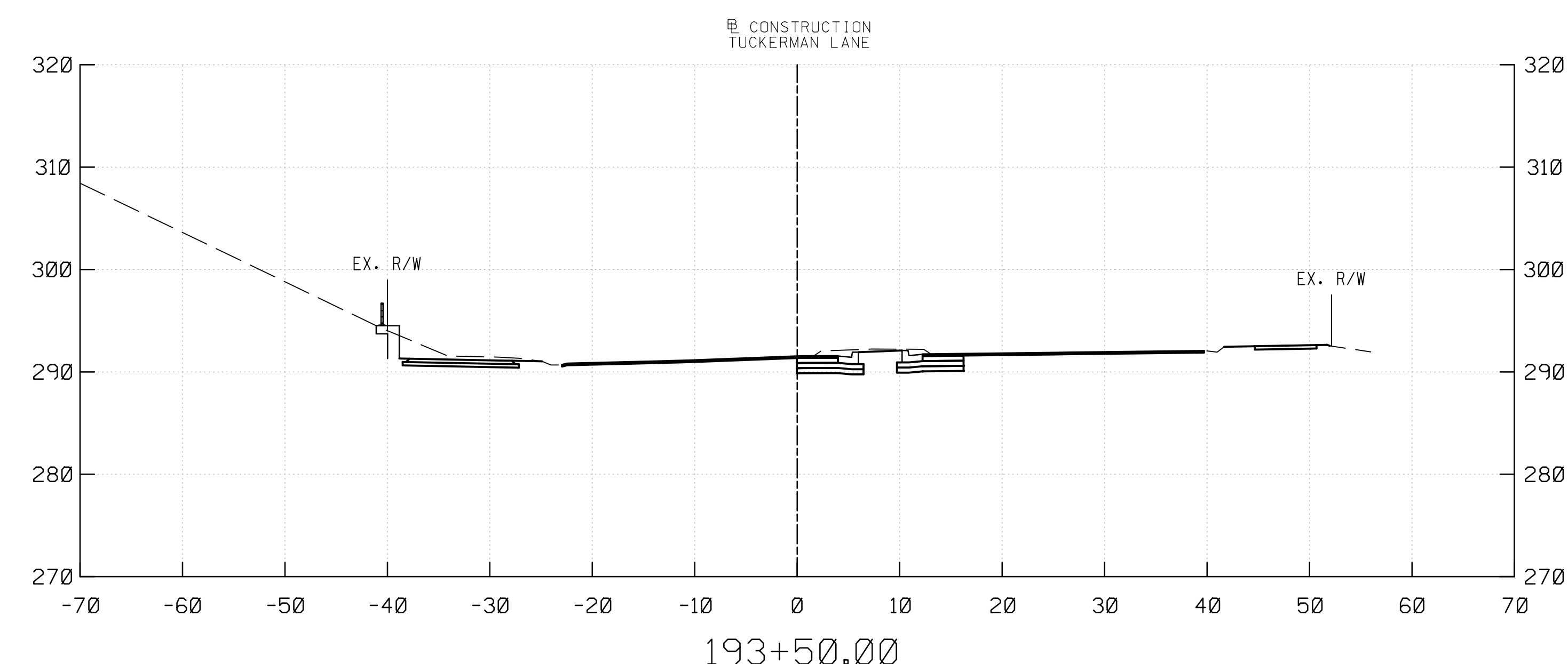
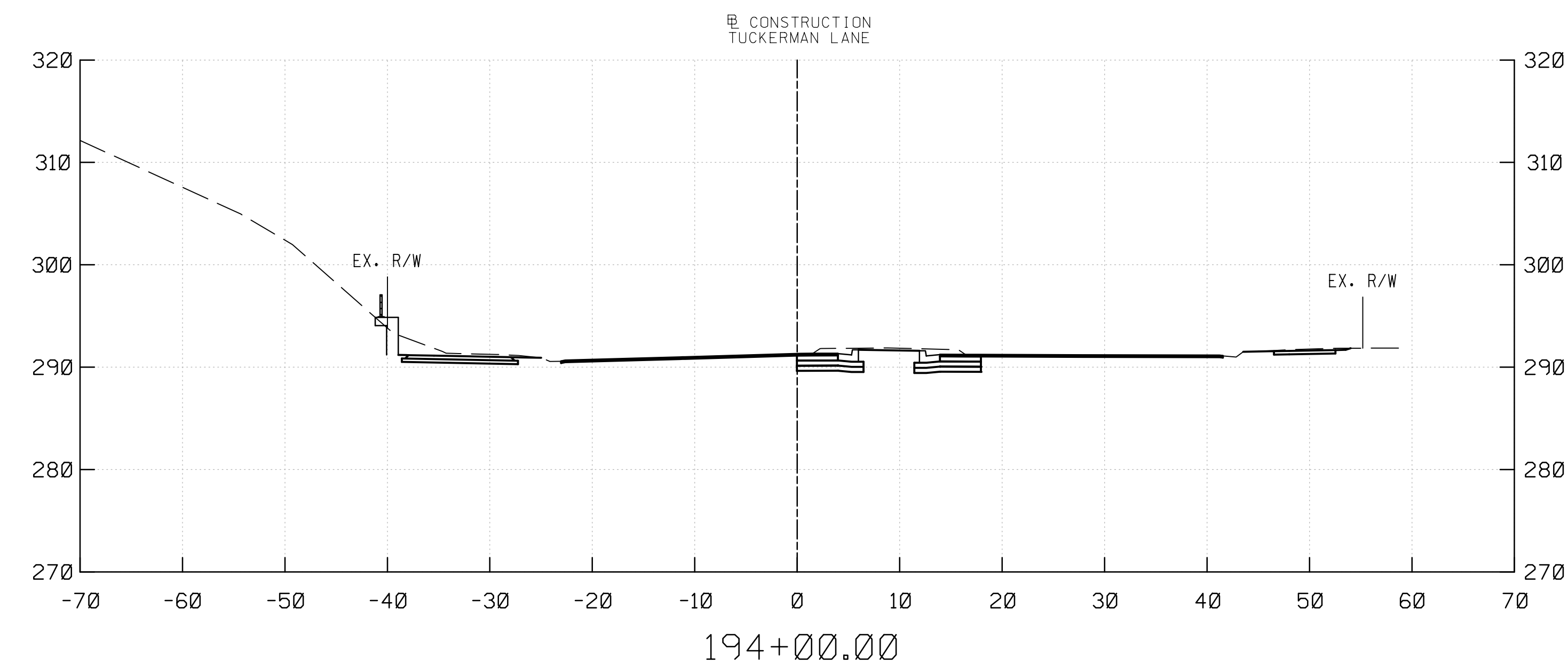
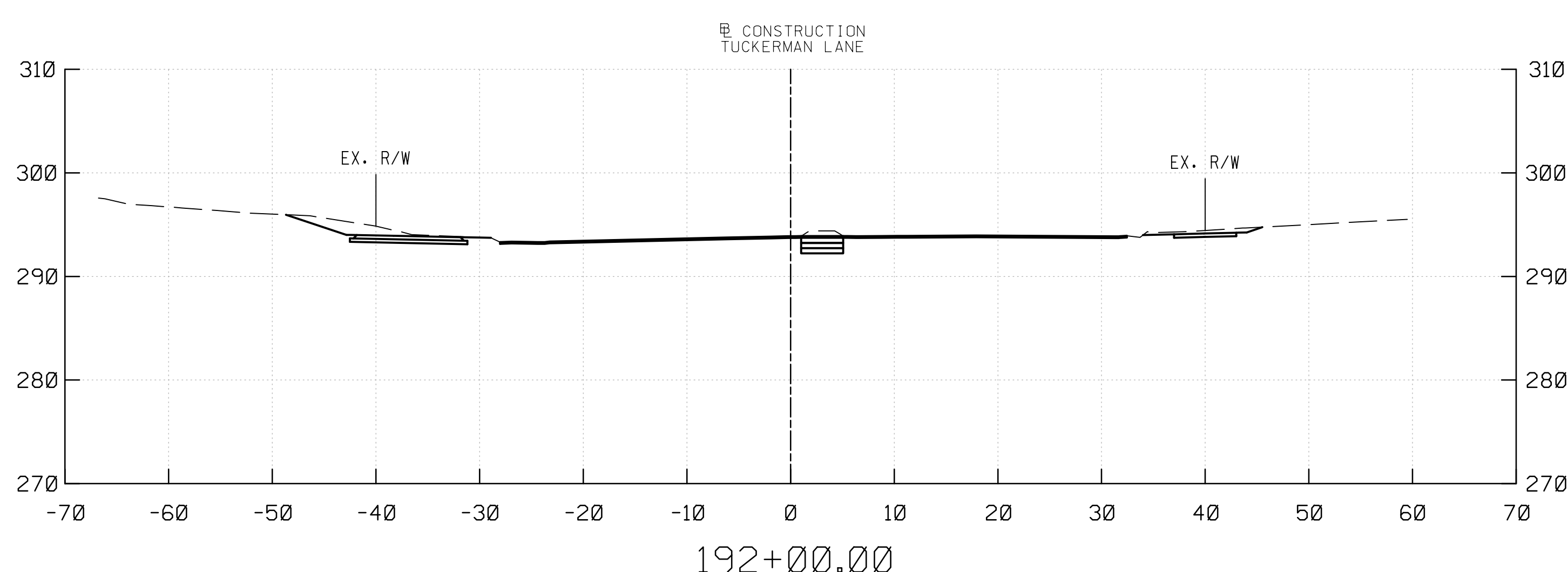
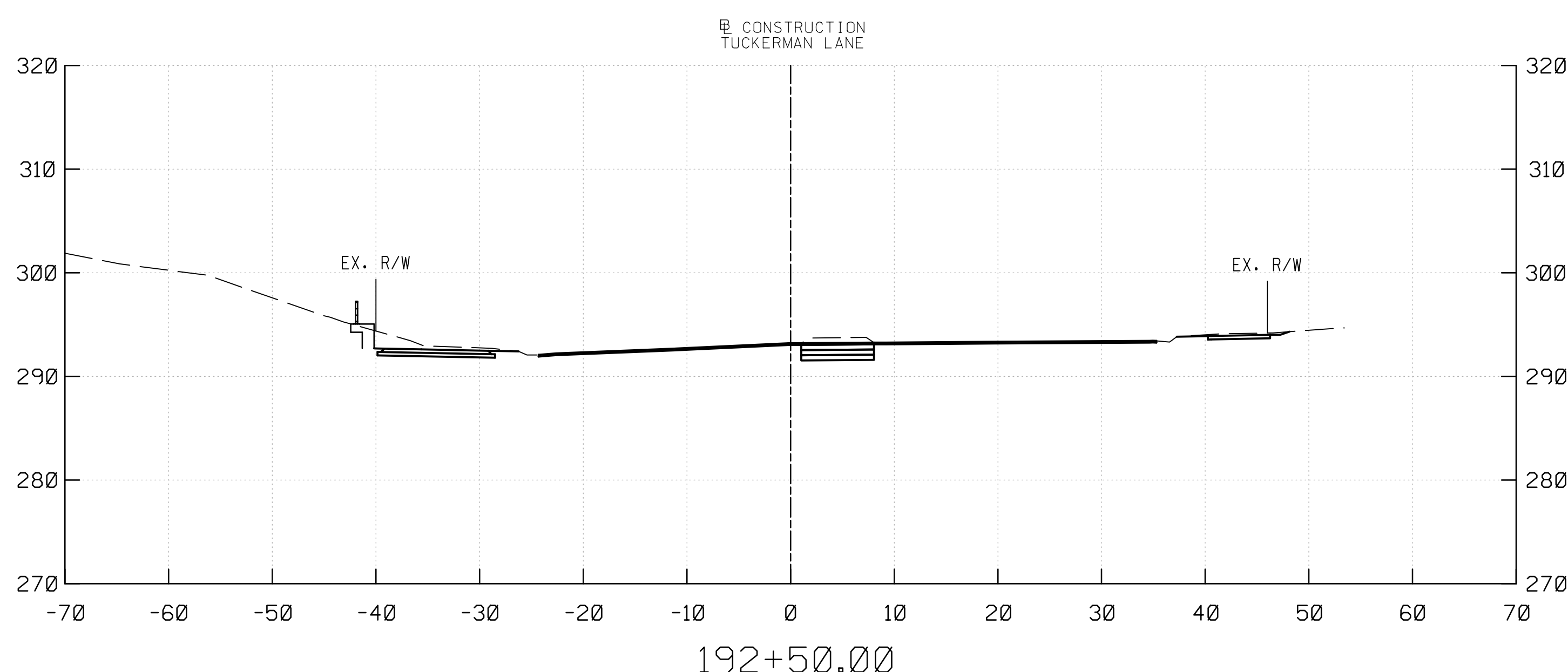
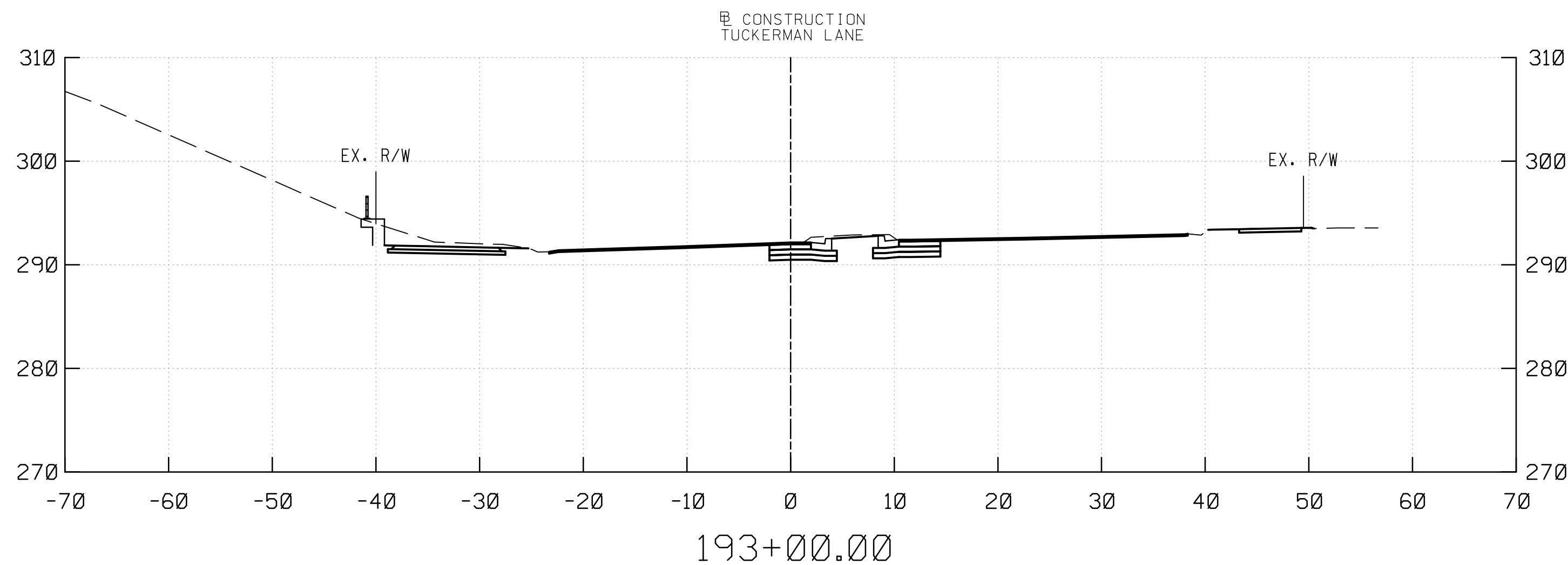
Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by : _____ Drawn by : _____ Checked by : _____

PLAN SHEET CS-33
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 189+50 TO STA. 191+57.75
 SCALE : 1" = 10' 09/2021

Project No. : C.I.P. PR. # 509337 SHEET 168 of 171



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL

DATE : 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

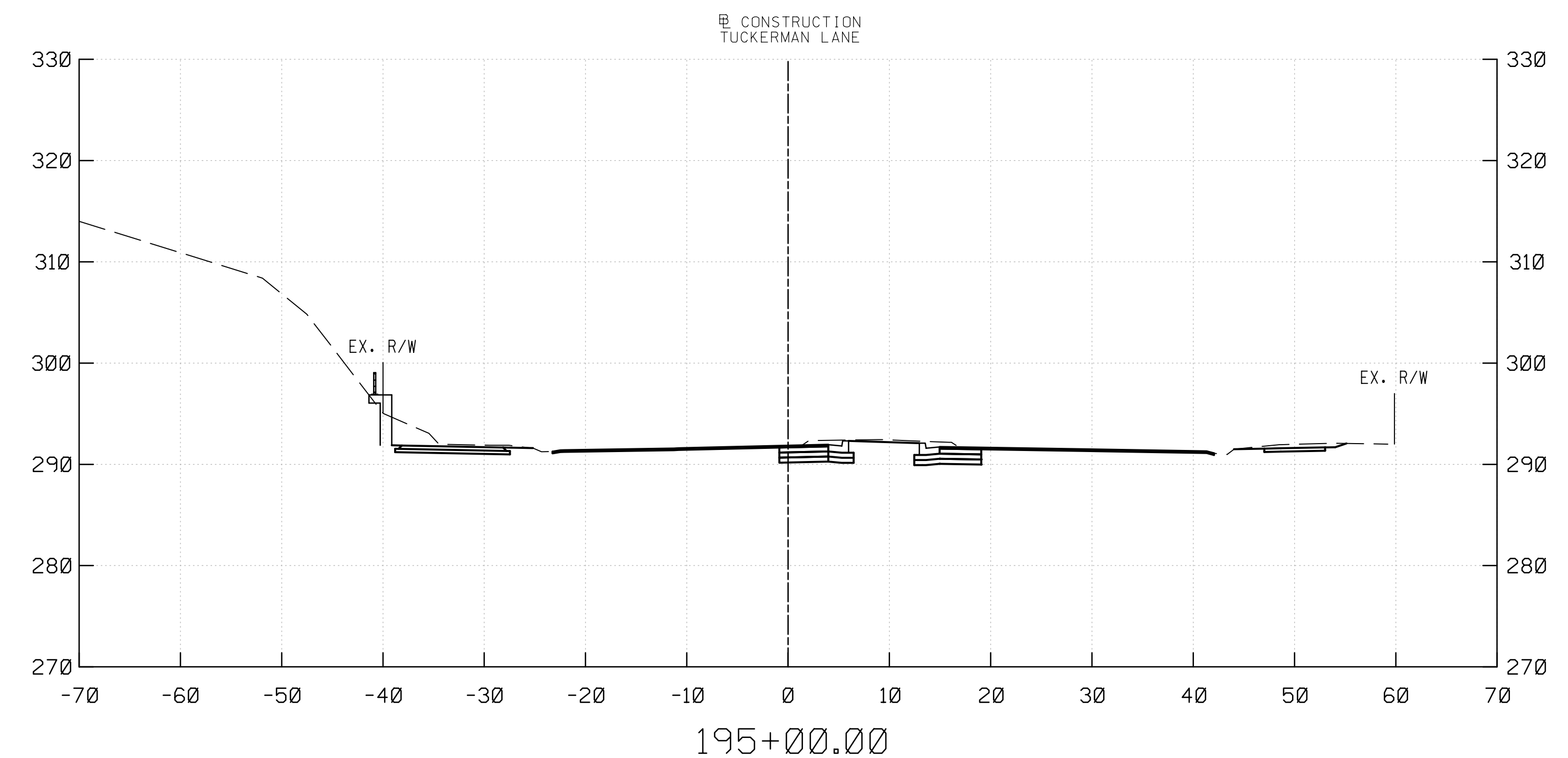
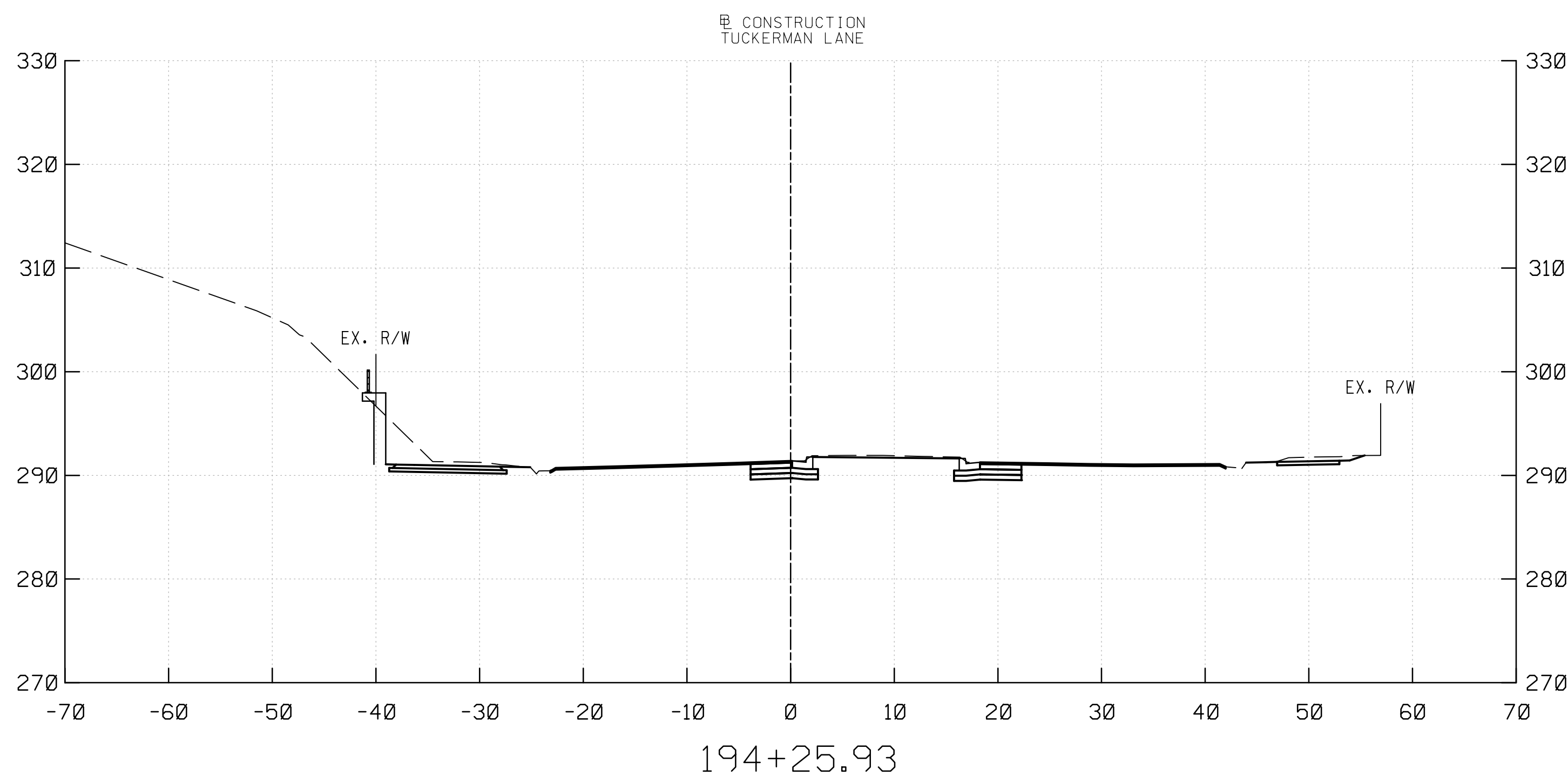
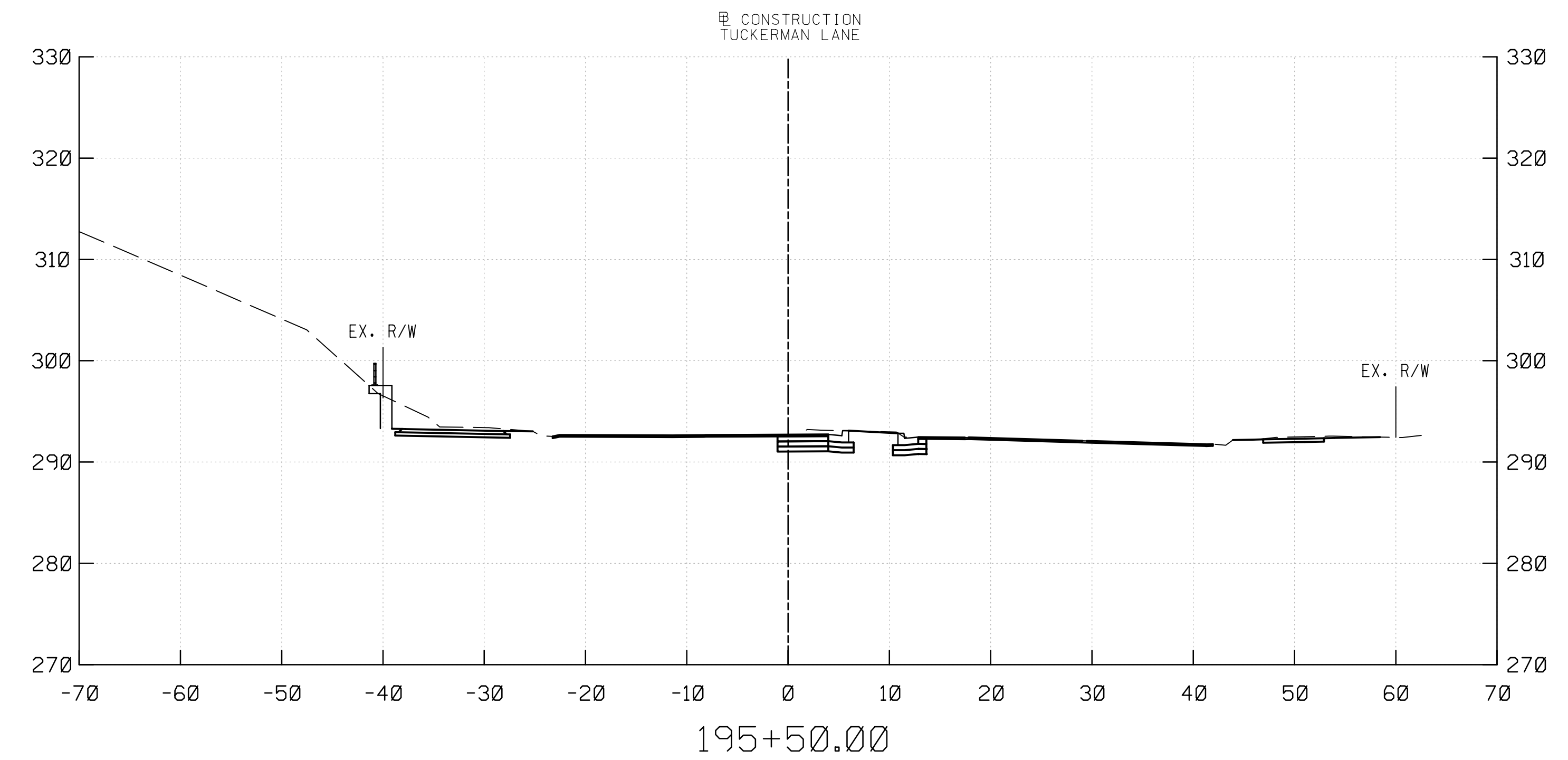
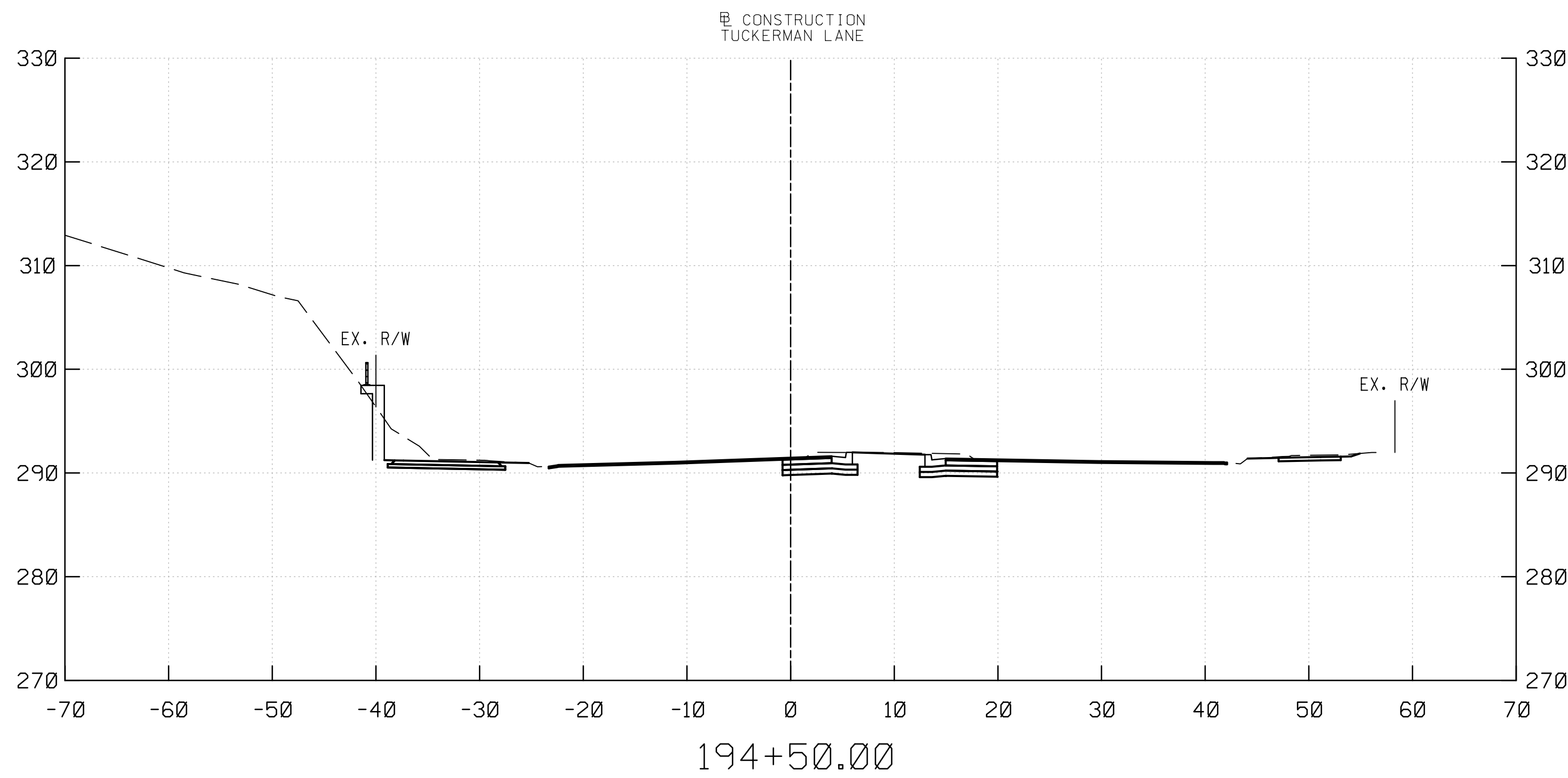
Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by : _____ Drawn by : _____ Checked by : _____

PLAN SHEET CS-34
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 192+00 TO STA. 194+00
 SCALE : 1"= 10' 09/2021

Project No. : C.I.P. PR. # 509337 SHEET 169 of 171



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL
 DATE : 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

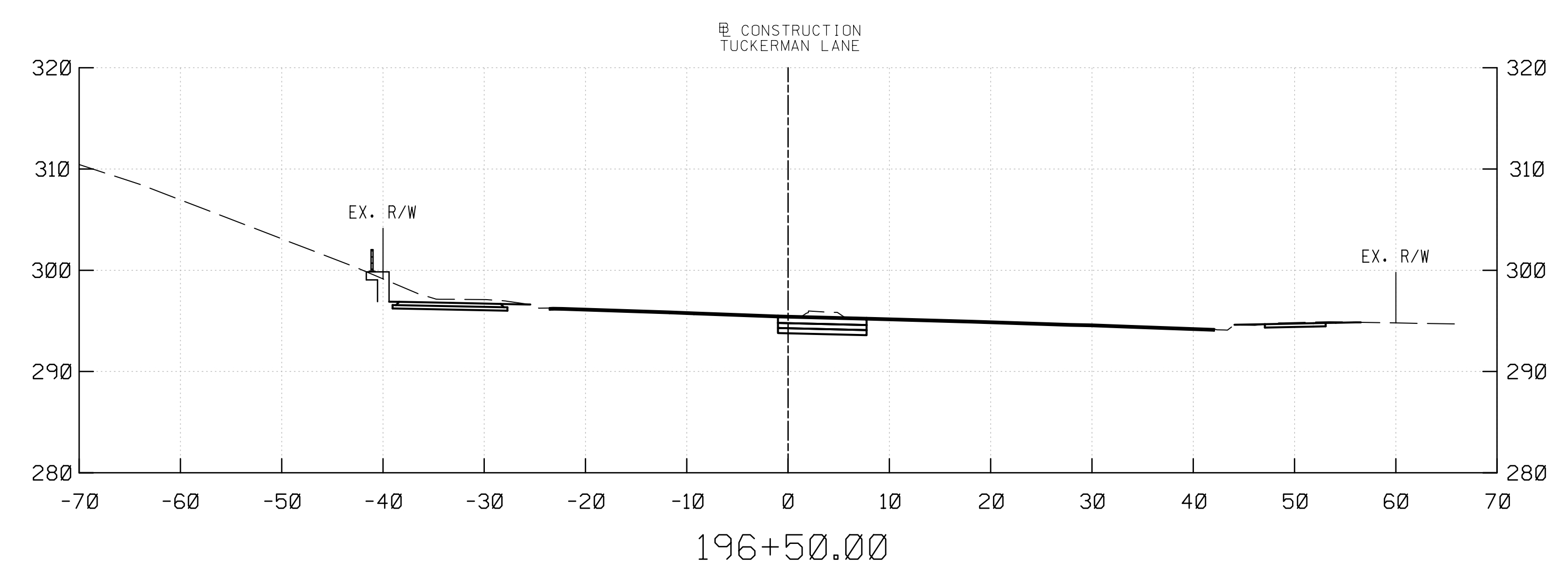
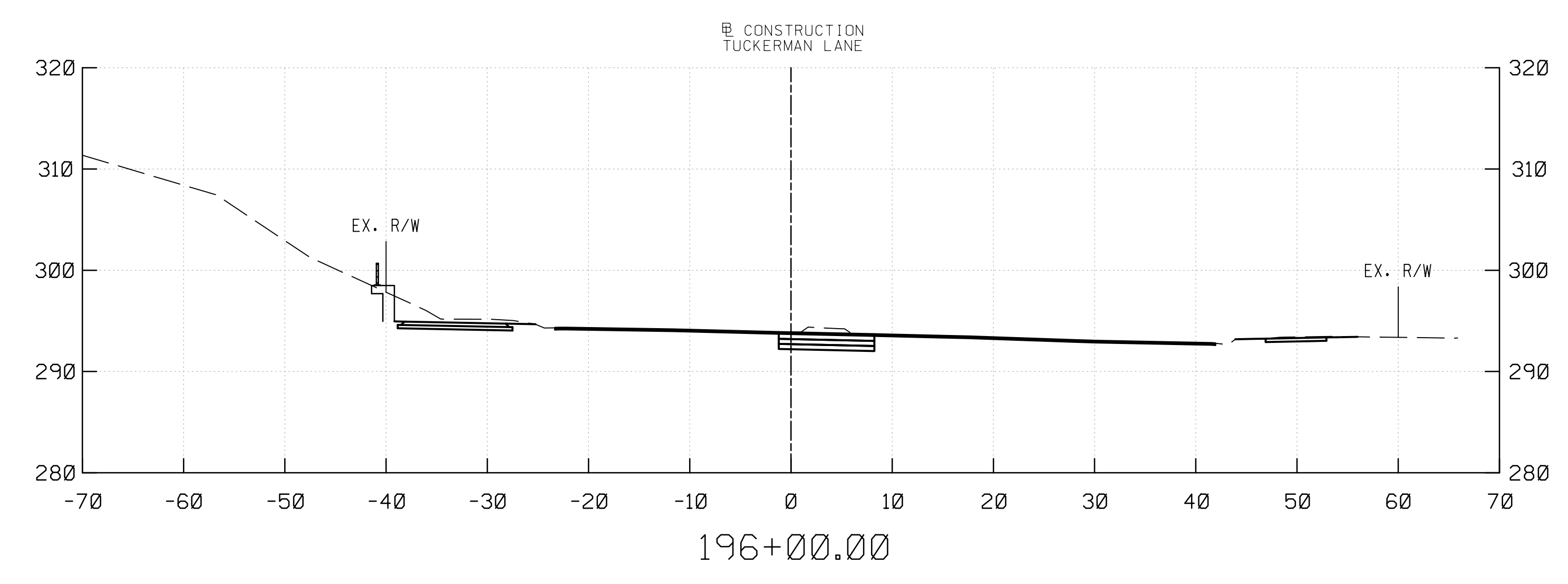
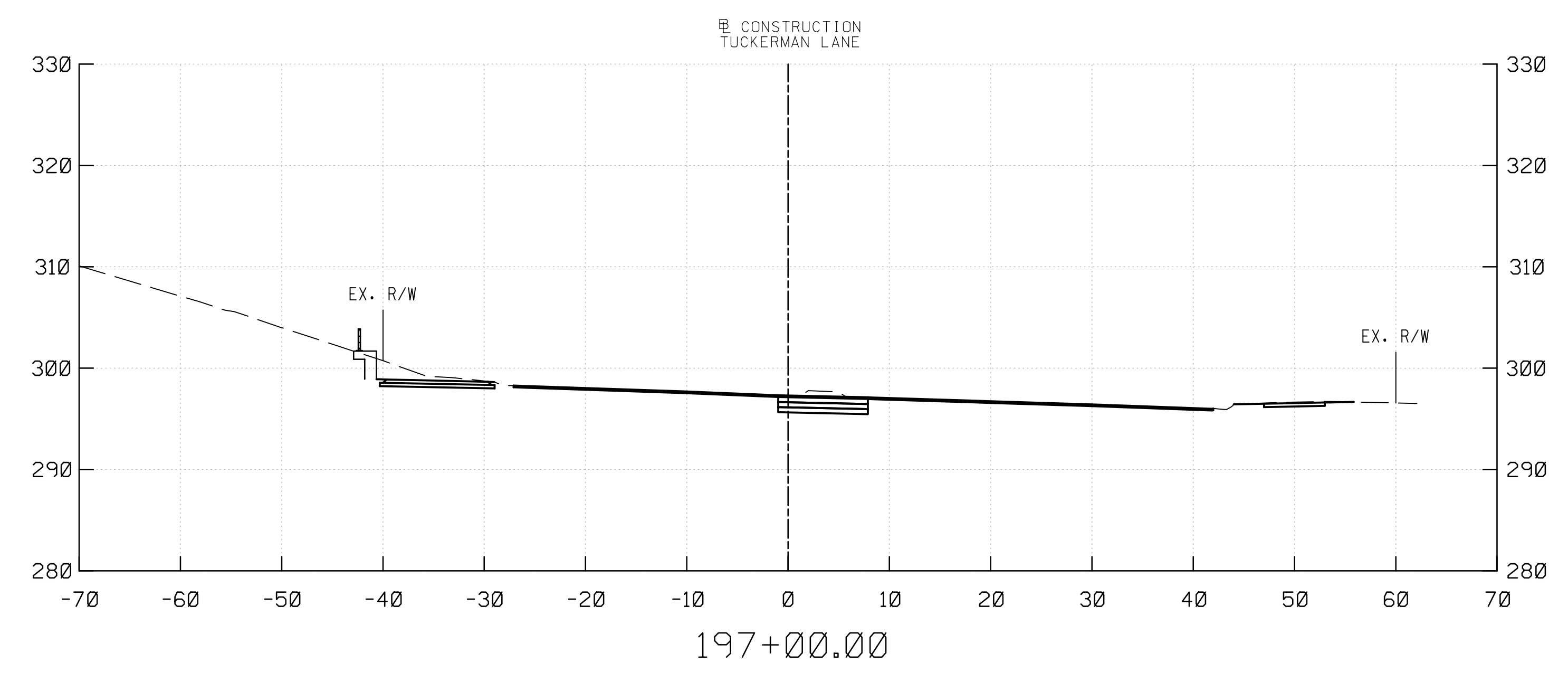
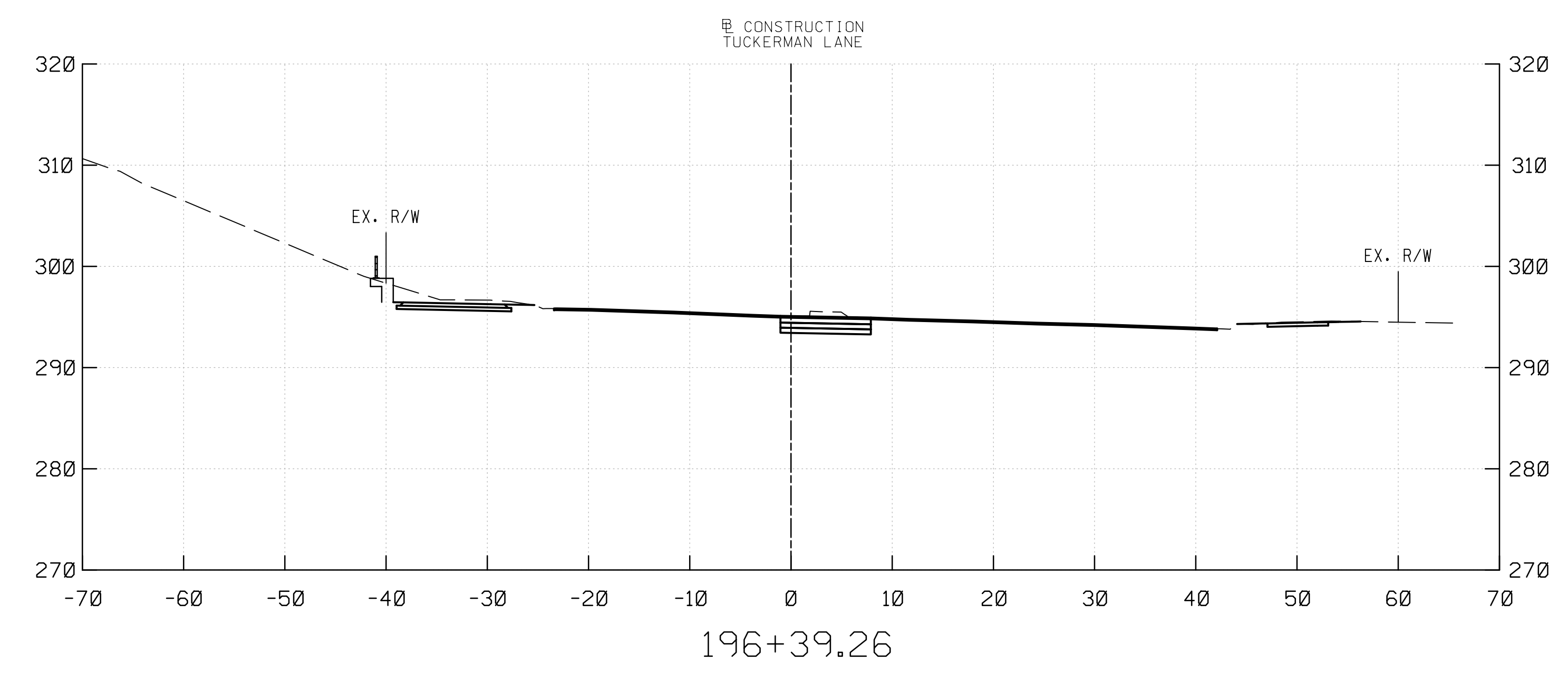
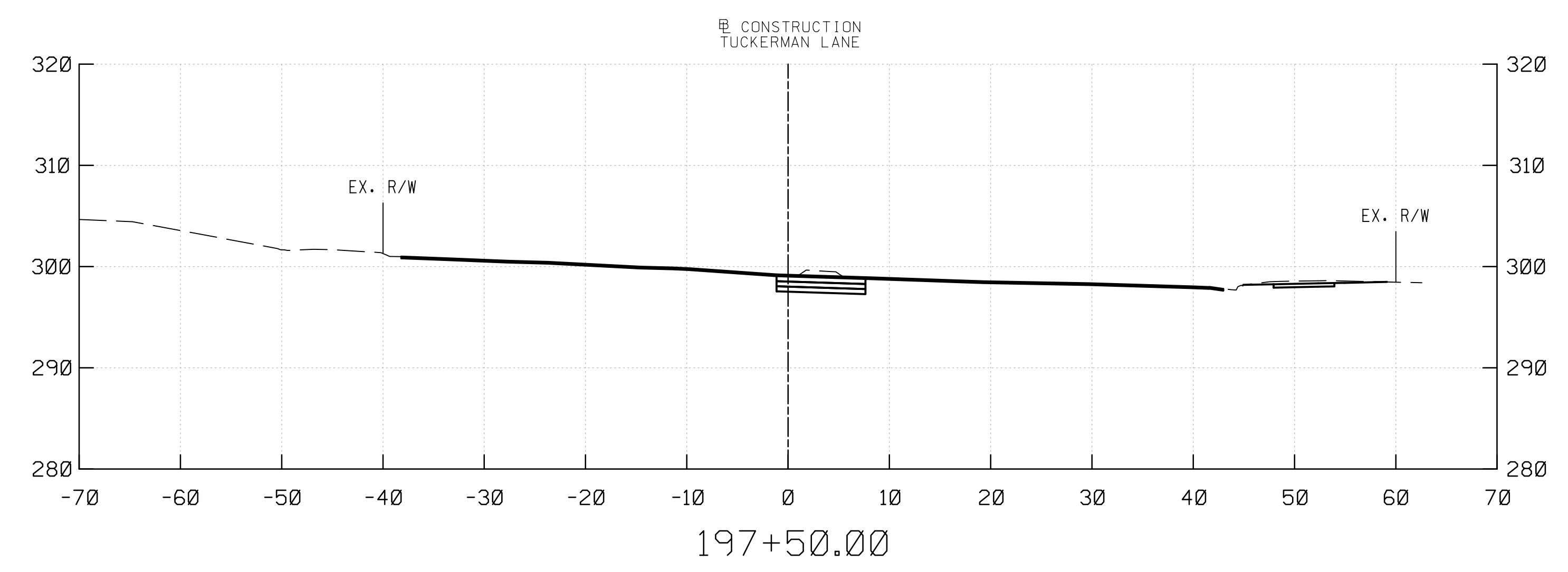
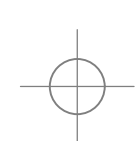
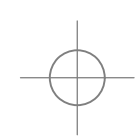
Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by : _____ Drawn by : _____ Checked by : _____

PLAN SHEET CS-35
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 914+25.93 TO STA. 195+50
 SCALE : 1" = 10' 09/2021

Project No. : C.I.P. PR. # 509337 SHEET 170 of 171



WALLACE MONTGOMERY
 ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
 10150 York Road, Suite 200
 Hunt Valley, Maryland 21030
 410.494.9093 • Fax / 410.967.0925 Fax
 www.WallaceMontgomery.com A Limited Liability Partnership

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 MARK J. BODMANN MD N0-31487 EXP-03/18/2023

SEAL
 DATE : 09-17-2021

35% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

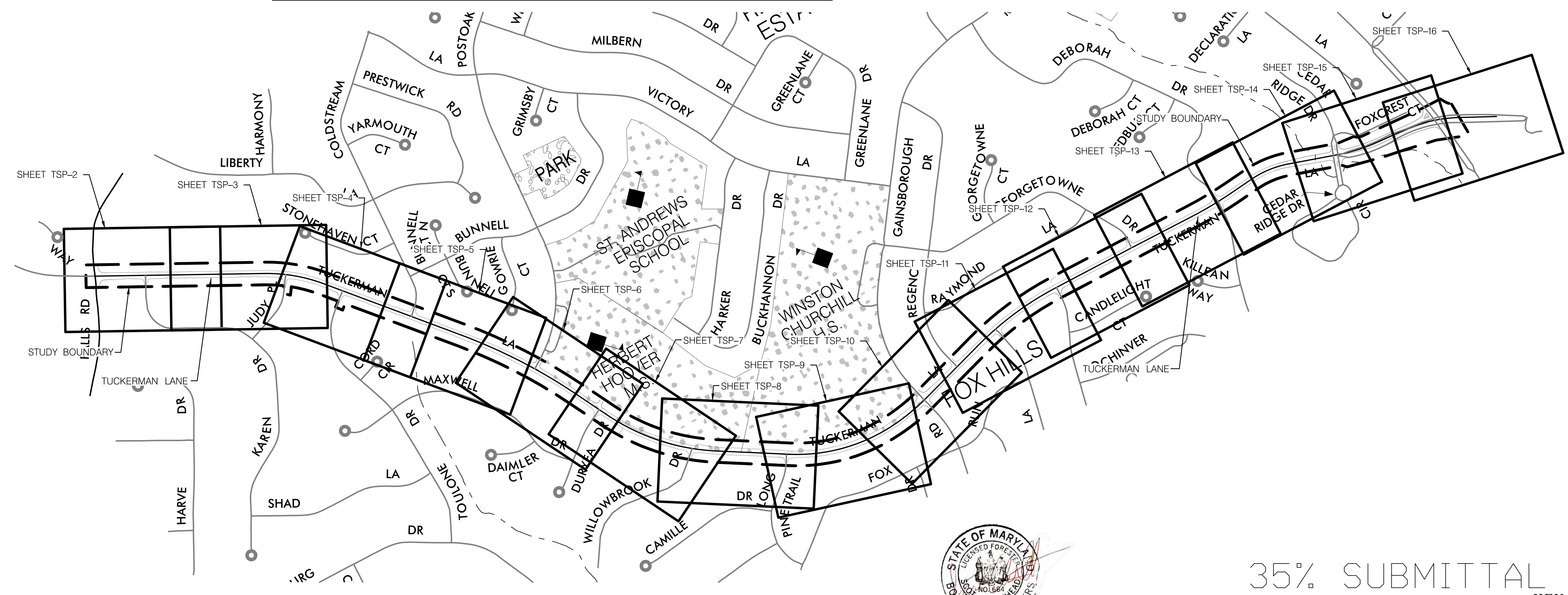
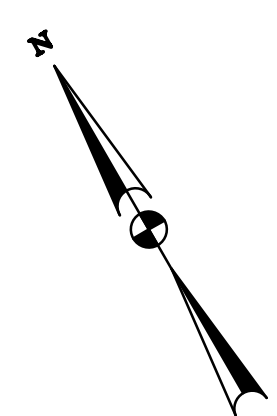
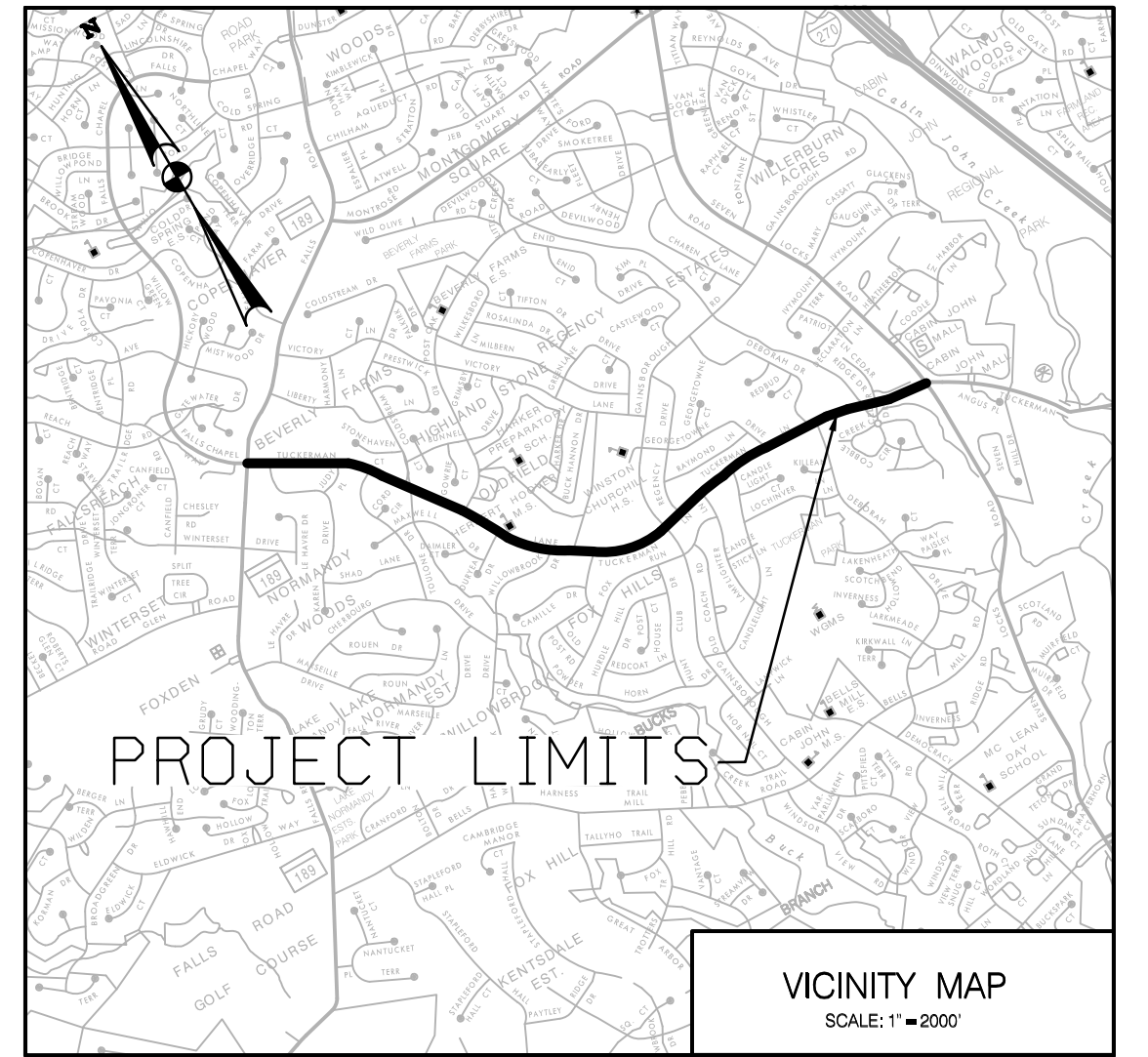
Chief, Division of Engineering Services _____ Date _____

Designed by : _____ Drawn by : _____ Checked by : _____

PLAN SHEET CS-36
ROADWAY CROSS SECTIONS
TUCKERMAN LANE
SIDEWALK/BIKEWAY
PROJECT - SEGMENT 1
STA. 196+00 TO STA. 197+50
 SCALE : 1" = 10' 09/2021

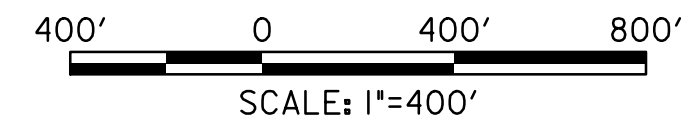
Project No. : C.I.P. PR. # 509337 SHEET 171 of 171

INDEX SHEET		
FILENAME	TITLE	SHEET INDEX NUMBER
08-TSP-MR2023007-001	Key Map and Cover Sheet, Sheet TSP-1	1
08-TSP-MR2023007-002	Tree Save Plan, Sheet TSP-2	2
08-TSP-MR2023007-003	Tree Save Plan, Sheet TSP-3	3
08-TSP-MR2023007-004	Tree Save Plan, Sheet TSP-4	4
08-TSP-MR2023007-005	Tree Save Plan, Sheet TSP-5	5
08-TSP-MR2023007-006	Tree Save Plan, Sheet TSP-6	6
08-TSP-MR2023007-007	Tree Save Plan, Sheet TSP-7	7
08-TSP-MR2023007-008	Tree Save Plan, Sheet TSP-8	8
08-TSP-MR2023007-009	Tree Save Plan, Sheet TSP-9	9
08-TSP-MR2023007-010	Tree Save Plan, Sheet TSP-10	10
08-TSP-MR2023007-011	Tree Save Plan, Sheet TSP-11	11
08-TSP-MR2023007-012	Tree Save Plan, Sheet TSP-12	12
08-TSP-MR2023007-013	Tree Save Plan, Sheet TSP-13	13
08-TSP-MR2023007-014	Tree Save Plan, Sheet TSP-14	14
08-TSP-MR2023007-015	Tree Save Plan, Sheet TSP-15	15
08-TSP-MR2023007-016	Tree Save Plan, Sheet TSP-16	16
08-TSP-MR2023007-017	Tree Save (Notes & Tree Table), Sheet TSP-17	17



MD Licensed Forester
 Name: Scot Aitkenhead
 Address: 10150 York Road, Hunt Valley, MD 21030
 Phone: 410-494-9093
 saikenhead@wallacemontgomery.com

3/9/2023



WALLACE MONTGOMERY
 ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
 10150 York Road, Suite 200
 Hunt Valley, Maryland 21030
 410-494-9093 Tel / 410-667-0925 Fax
 www.wallacemontgomery.com A Limited Liability Partnership

NO.	REVISION	DATE	BY

35% SUBMITTAL

KEY MAP AND COVER SHEET TSP-1

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section
 APPROVED _____ Date _____

Chief, Division of Transportation Engineering
 APPROVED _____ Date _____

Designed by : SA Drawn by : SA Checked by : MUB

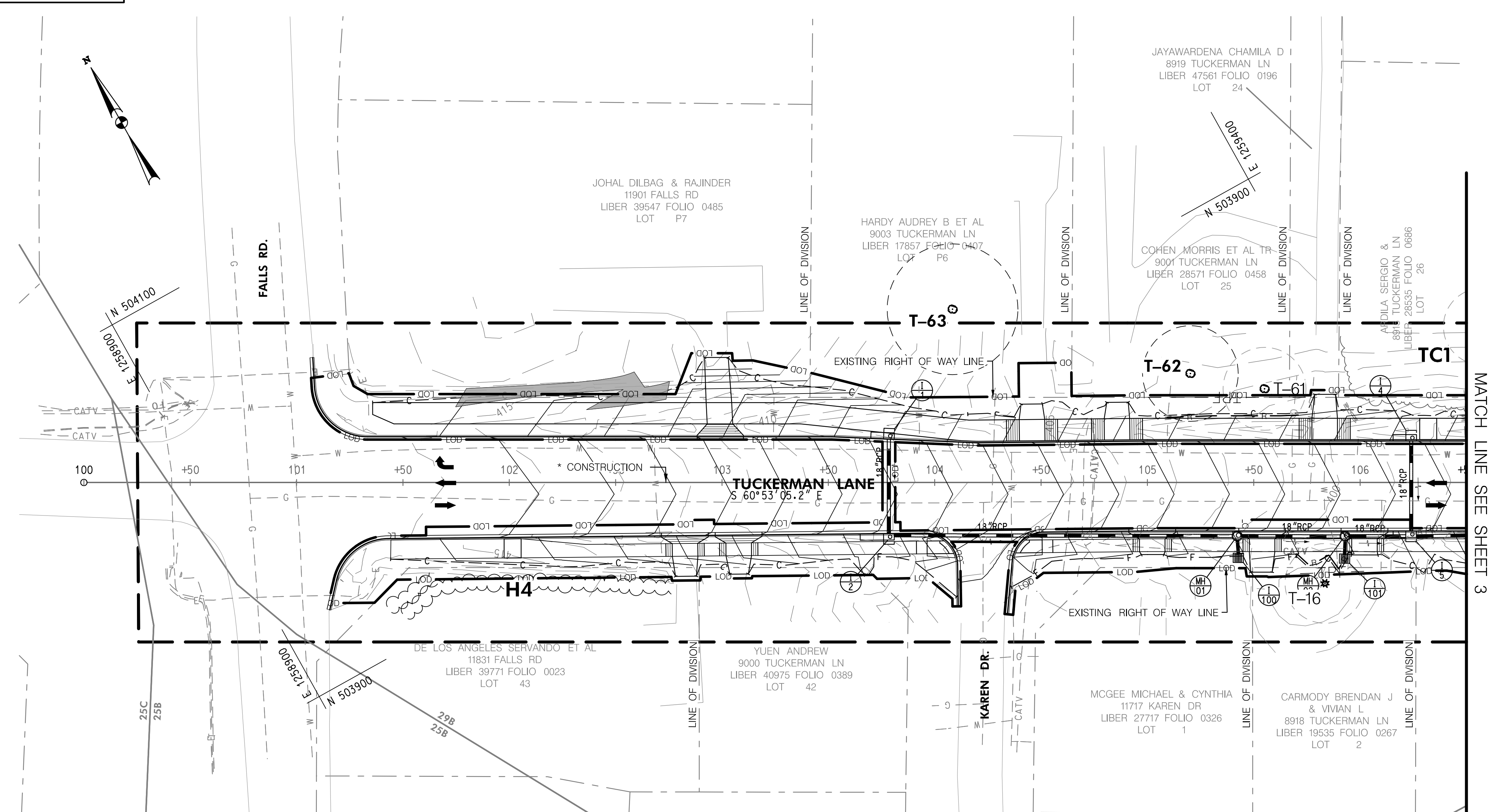
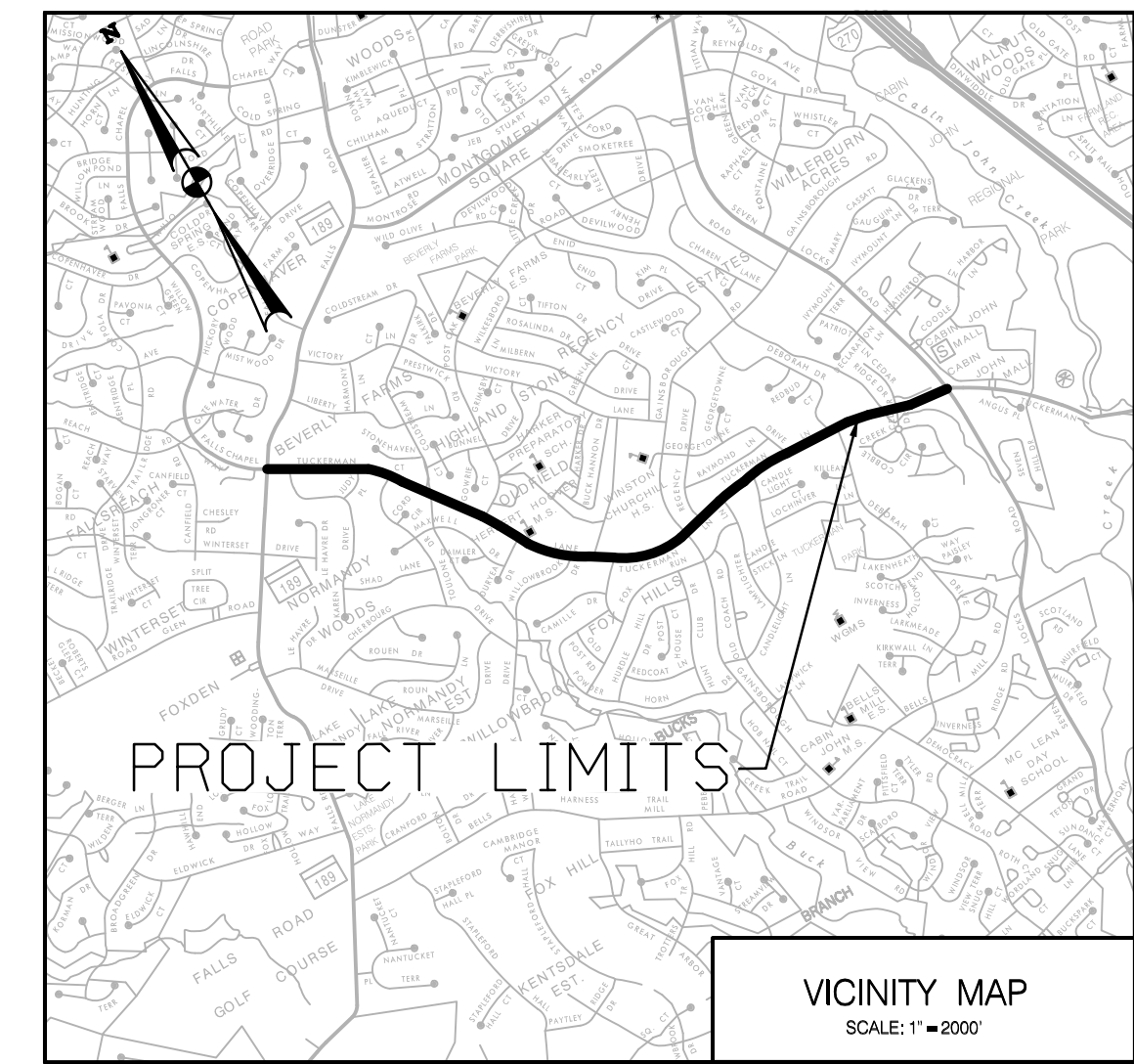
TREE SAVE PLAN
 TUCKERMAN LANE SIDEWALK /
 BIKEWAY PROJECT - SEGMENT 1
 TSP-MR2023007

COUNTY: MONTGOMERY
 STATE: MARYLAND
 ELECTION DISTRICT: 1.1
 TAX MAPS: H031, H032, G0121
 NASS: 214NW08, 214NW09
 GRIDS: 215NW09

SCALE: 1"=400' DATE: MARCH 2023

Project No. : CIP# 509337 SHEET 1 OF 17

BY: saikenhead
 FILE: \\P:\PROJ\2023\08\08\0001\Env\1_Cover_Sheet_Plan\08-TSP01-Tuckerman.gpr



MATCH LINE SEE SHEET 3

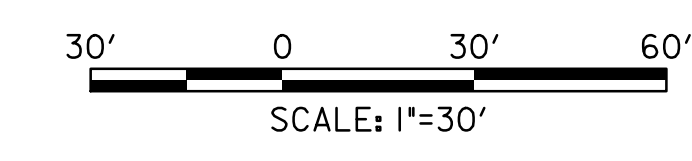
LEGEND

	TREE >24"-29" DBH WITH CRITICAL ROOT ZONE (CRZ)	H1	HEDGROW
	TREE REMOVAL	TC1	TREE CANOPY
	SPECIMEN TREE >30" DBH WITH CRITICAL ROOT ZONE (CRZ)		PERENNIAL/INTERMITTENT STREAM
	SPECIMEN TREE REMOVAL		STREAM BUFFER
	STUMP		25' WETLAND BUFFER
FS1	FOREST STAND		100-YEAR FLOODPLAIN (FEMA)
W1	WETLANDS /WATER FEATURE		SOIL BOUNDARY
	ROOT PRUNE		FOREST CANOPY (AERIAL EXTENT)
	TREE PROTECTION FENCE		PROPOSED LIMITS OF DISTURBANCE
			PARKLANDS
			EXISTING PROPERTY LINE
			SLOPES > 25%
			STUDY BOUNDARY



MD Licensed Forester Date
 Name: Scot Aitkenhead
 Address: 10150 York Road, Hunt Valley, MD 21030
 Phone: 410-494-9093
 saitkenhead@wallacemontgomery.com

35% SUBMITTAL



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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section
 APPROVED _____ Date _____

Chief, Division of Transportation Engineering
 APPROVED _____ Date _____

Designed by: SA Drawn by: SA Checked by: MUB

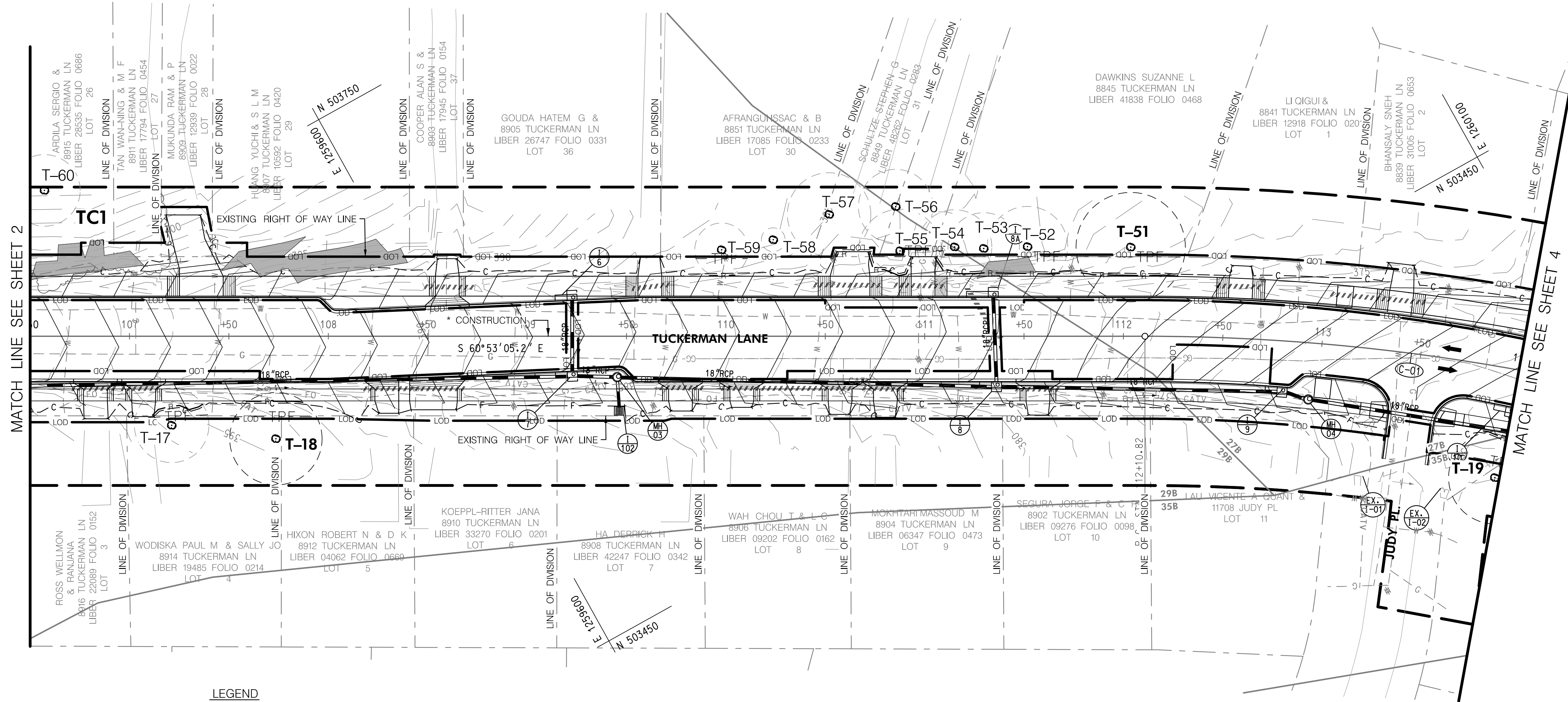
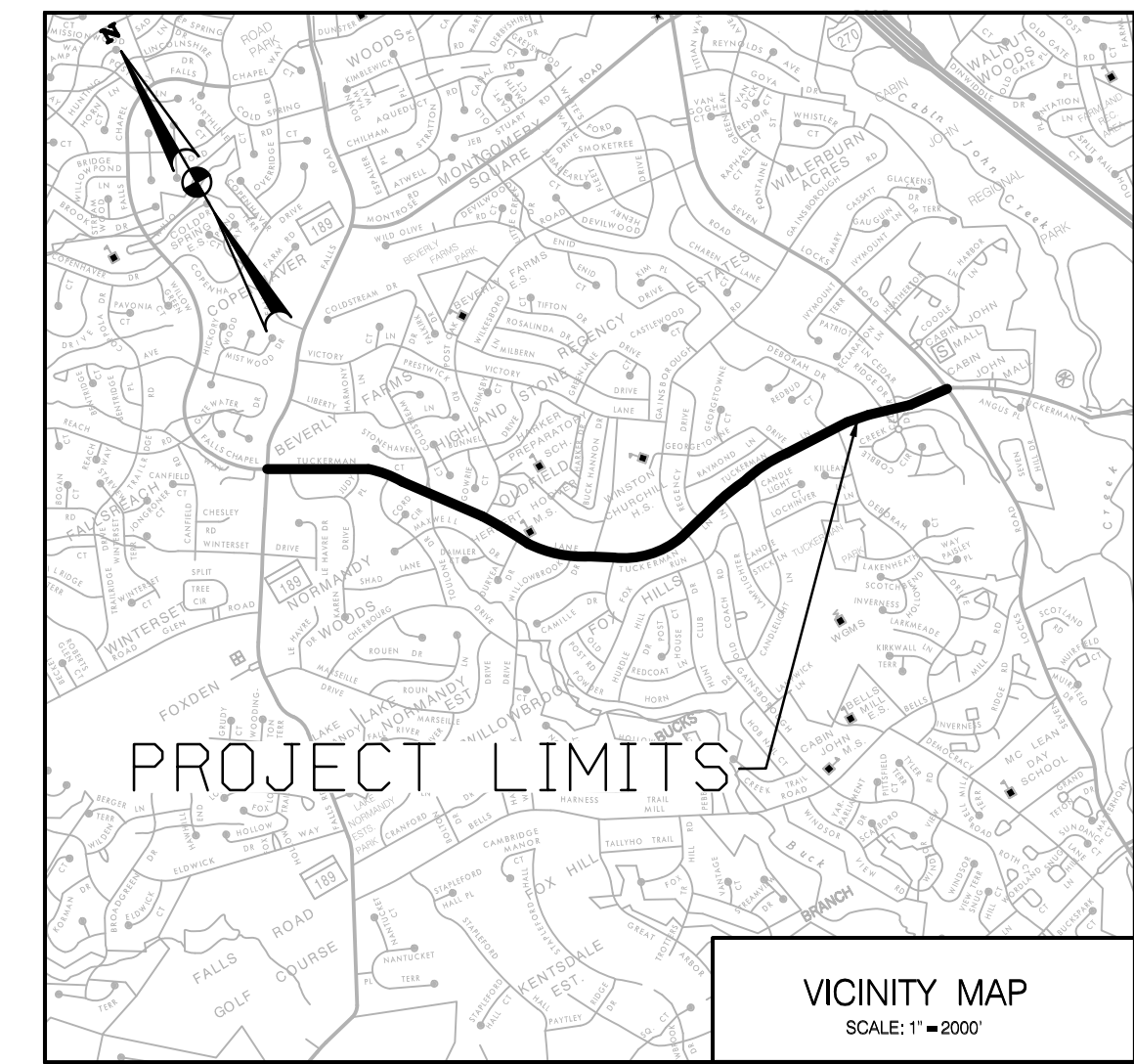
TREE SAVE PLAN
 TUCKERMAN LANE SIDEWALK /
 BIKEWAY PROJECT - SEGMENT 1
 TSP-MR2023007

COUNTY: MONTGOMERY
 STATE: MARYLAND
 ELECTION DISTRICT: 1.1
 TAX MAPS: H031, H032, G0121
 MISC: 214NW08, 214NW09, 215NW09

SCALE: 1"=30' GRIDS DATE: MARCH 2023

Project No.: CIP# 509337 SHEET 2 OF 17

BY: saitkenhead
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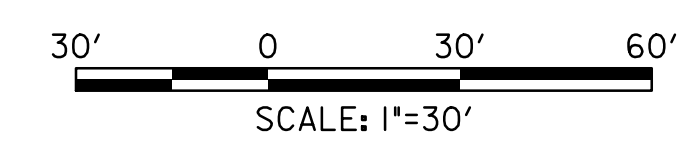
LEGEND

T-73		TREE > 24"-29" DBH WITH CRITICAL ROOT ZONE (CRZ)	H1	HEDGROW
T-73		TREE REMOVAL	TC1	TREE CANOPY
T-29		SPECIMEN TREE > 30" DBH WITH CRITICAL ROOT ZONE (CRZ)		PERENNIAL/INTERMITTENT STREAM
T-29		SPECIMEN TREE REMOVAL		STREAM BUFFER
		STUMP		25' WETLAND BUFFER
FS1		FOREST STAND		100-YEAR FLOODPLAIN (FEMA)
W1		WETLANDS / WATER FEATURE		FOREST CANOPY (AERIAL EXTENT)
		ROOT PRUNE		PROPOSED LIMITS OF DISTURBANCE
		TREE PROTECTION FENCE		PARKLANDS
				EXISTING PROPERTY LINE
				SLOPES > 25%
				STUDY BOUNDARY



MD Licensed Forester Date **3/9/2023**
 Name: Scot Aitkenhead
 Address: 10150 York Road, Hunt Valley, MD 21030
 Phone: 410-494-9093
 saitkenhead@wallacemontgomery.com

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WALLACE MONTGOMERY
 ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
 10150 York Road, Suite 200
 Hunt Valley, Maryland 21030
 410-494-9093 Tel / 410-667-0925 Fax
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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section
 APPROVED _____ Date _____

Chief, Division of Transportation Engineering
 APPROVED _____ Date _____

Designed by : SA Drawn by : SA Checked by : MUB

TREE SAVE PLAN
 TUCKERMAN LANE SIDEWALK /
 BIKEWAY PROJECT - SEGMENT 1
 TSP-MR2023007

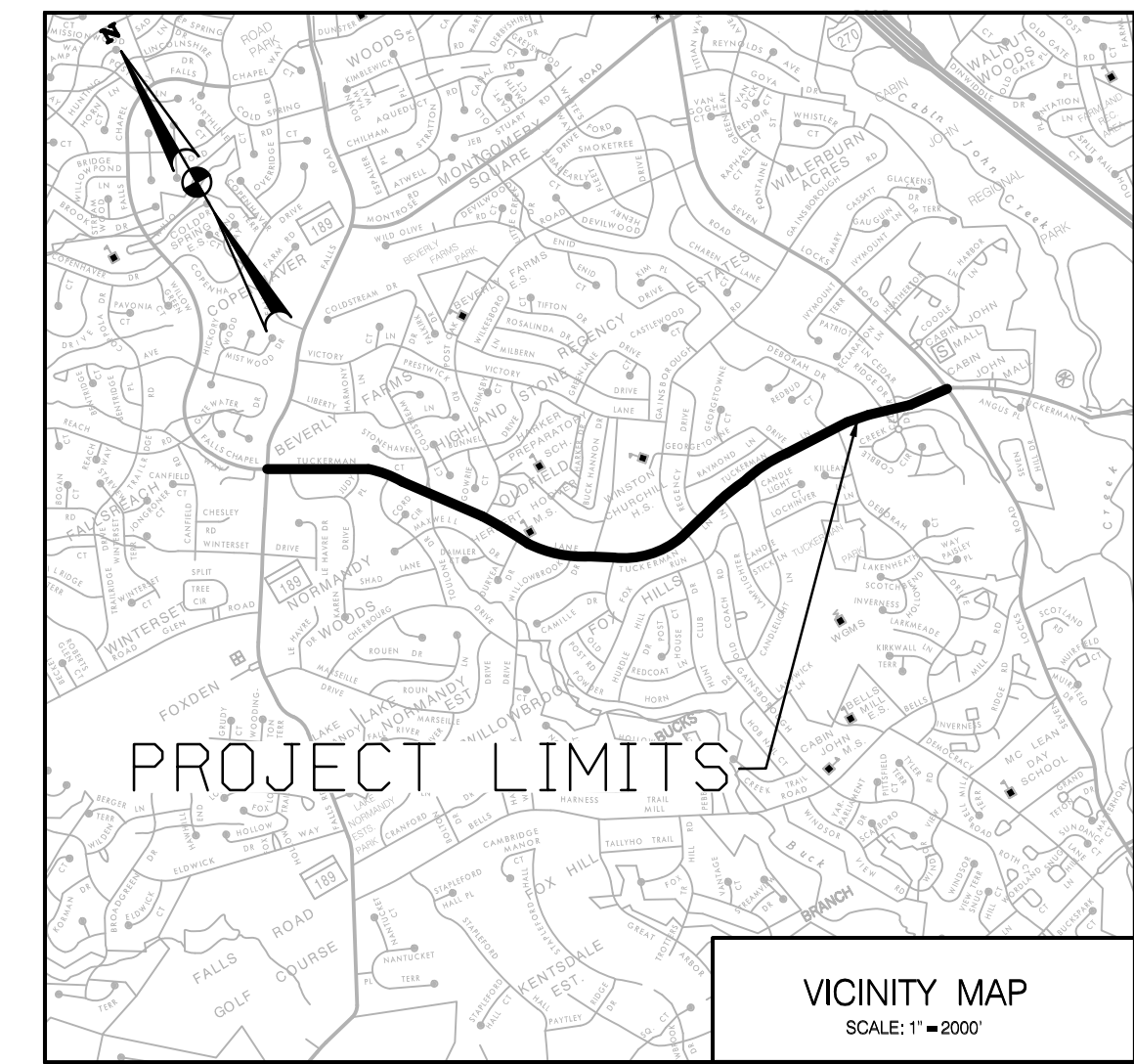
COUNTY: MONTGOMERY
 STATE: MARYLAND
 ELECTION DISTRICT: 1.1
 TAX MAPS: H031, H032, G0121
 MISC: 214NW08, 214NW09, 215NW09
 GRIDS

SCALE: 1"=30'

DATE: MARCH 2023

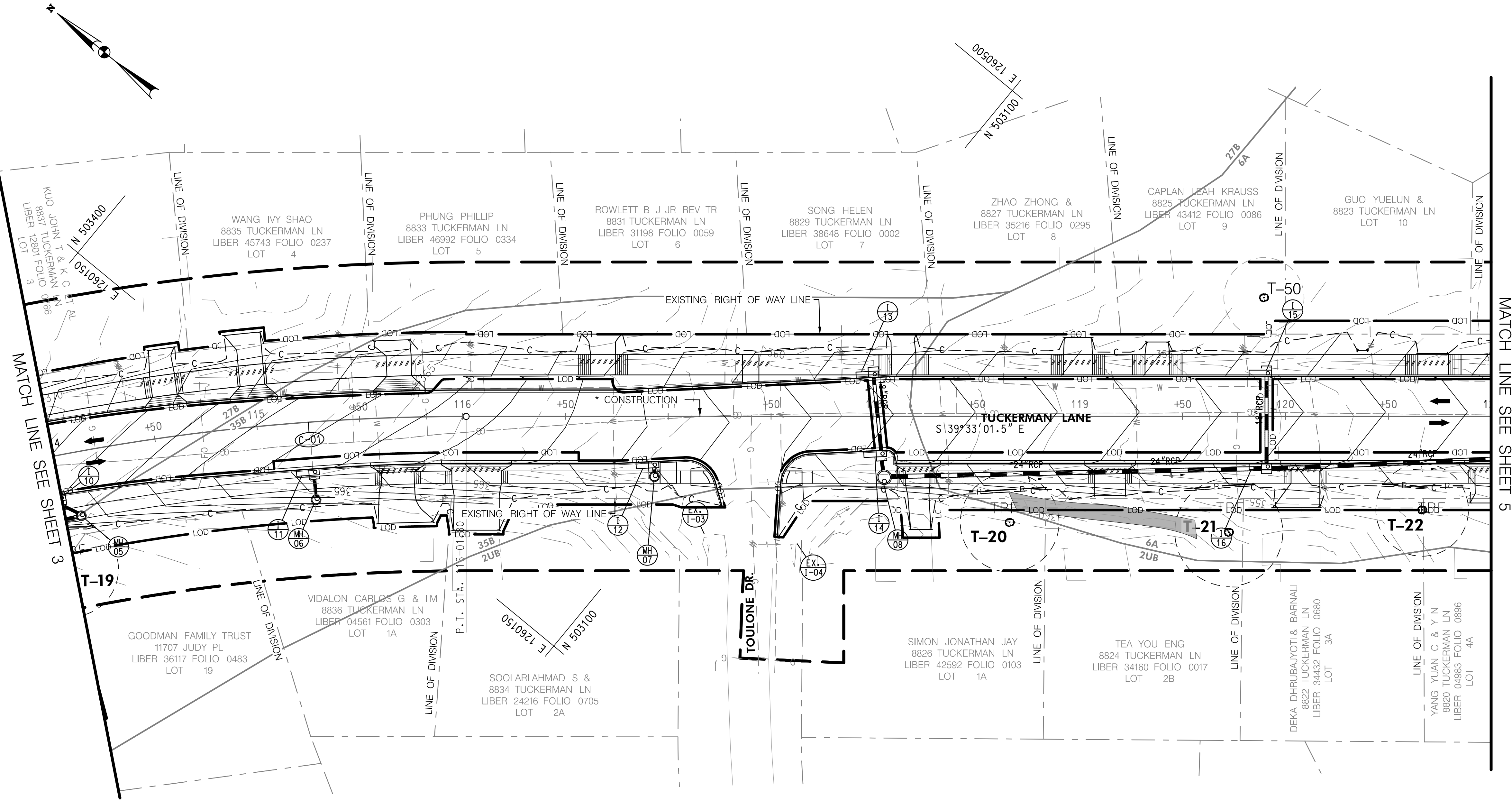
Project No. : CIP# 509337 SHEET 3 OF 17

BY: saitkenhead
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PROJECT LIMITS

VICINITY MAP
SCALE: 1"=2000'



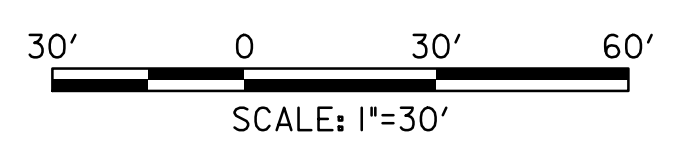
LEGEND

- T-73 TREE >24"-29" DBH WITH CRITICAL ROOT ZONE (CRZ)
- T-73 TREE REMOVAL
- T-29 SPECIMEN TREE >30" DBH WITH CRITICAL ROOT ZONE (CRZ)
- T-29 SPECIMEN TREE REMOVAL
- STUMP
- FS1** FOREST STAND
- W1** WETLANDS /WATER FEATURE
- R** ROOT PRUNE
- TPF** TREE PROTECTION FENCE
- H1** HEDGROW
- TC1** TREE CANOPY
- PERENNIAL/INTERMITTENT STREAM
- STREAM BUFFER
- 25' WETLAND BUFFER
- 100-YEAR FLOODPLAIN (FEMA)
- SOIL BOUNDARY
- FOREST CANOPY (AERIAL EXTENT)
- PROPOSED LIMITS OF DISTURBANCE
- PARKLANDS
- EXISTING PROPERTY LINE
- SLOPES > 25%
- STUDY BOUNDARY



3/9/2023

MD Licensed Forester
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saitkenhead@wallacemontgomery.com



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TSP-4

WALLACE MONTGOMERY
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Hunt Valley, Maryland 21030
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NO.	REVISION	DATE	BY

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section
APPROVED _____ Date _____

Chief, Division of Transportation Engineering
APPROVED _____ Date _____

Designed by: SA _____ Drawn by: SA _____ Checked by: MUB _____

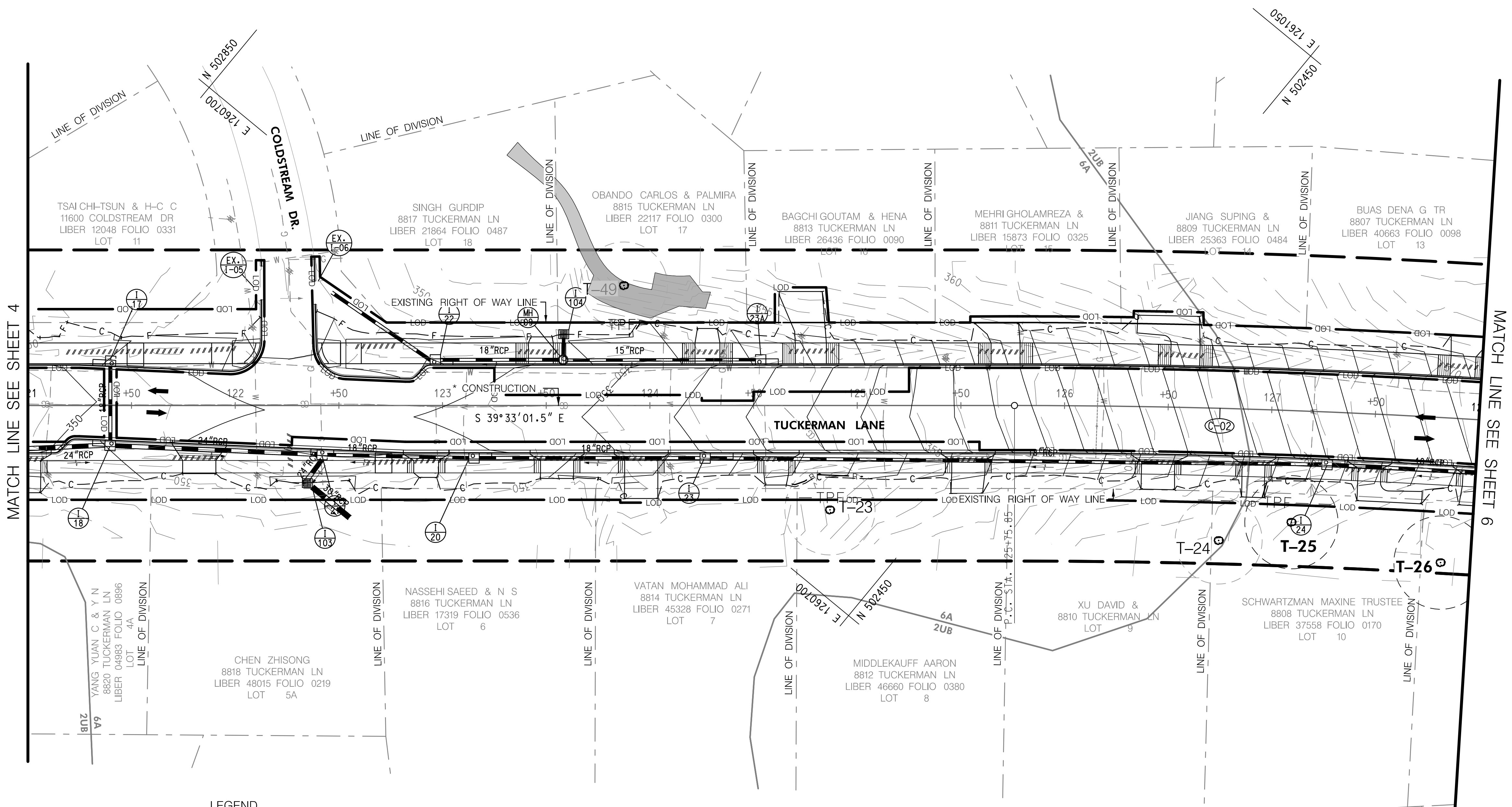
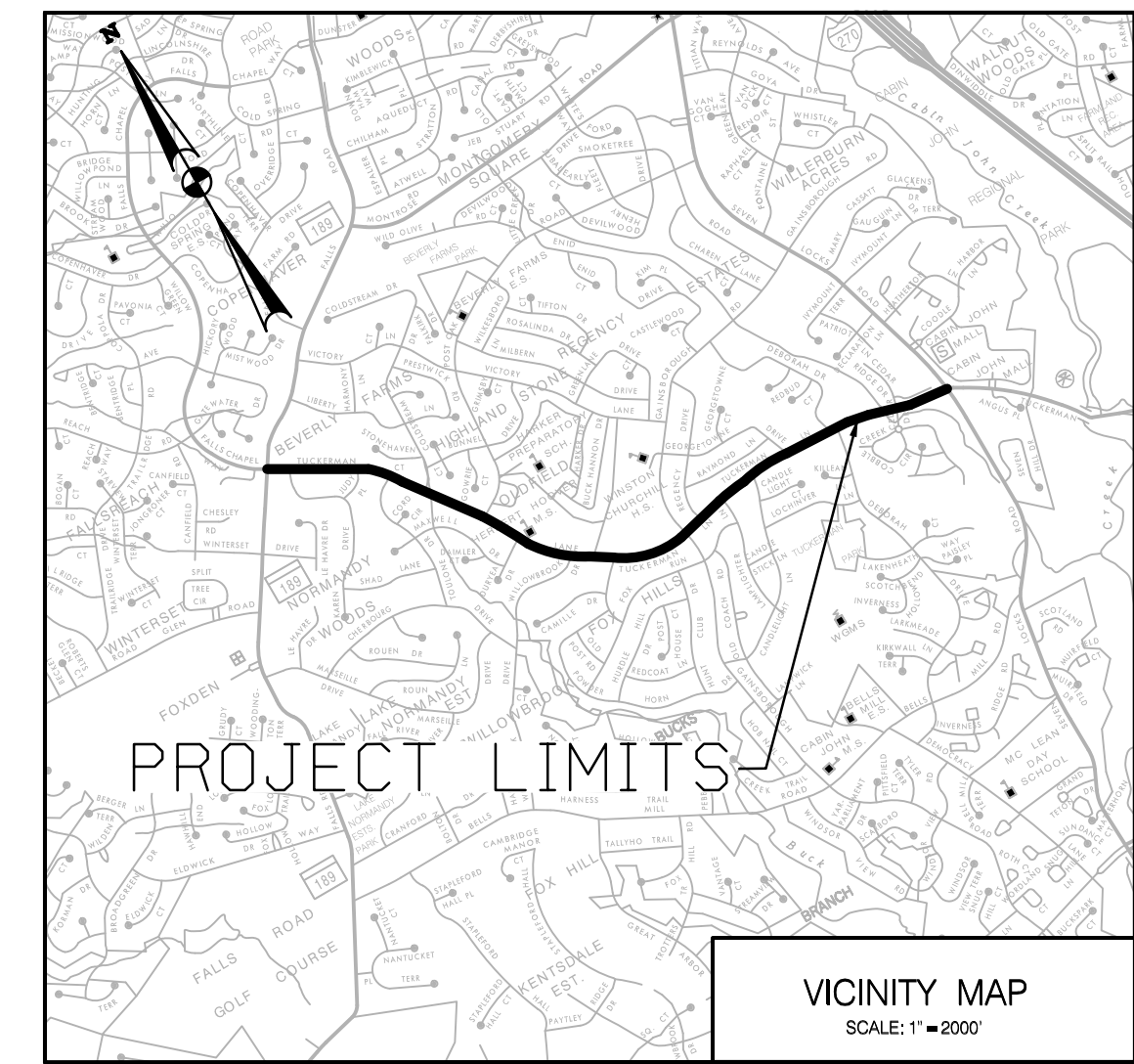
TREE SAVE PLAN
TUCKERMAN LANE SIDEWALK /
BIKEWAY PROJECT - SEGMENT 1
TSP-MR2023007

COUNTY: MONTGOMERY
STATE: MARYLAND
ELECTION DISTRICT: 1.1
TAX MAPS: H031, H032, G0121
MSSC: 214NW08, 214NW09, 215NW09
GRIDS

SCALE: 1"=30' DATE: MARCH 2023

Project No.: CIP# 509337 SHEET 4 OF 17

BY: saitenhead
FILE: \\M:\P\2023\2023007\Draws\Draws\TSP_MR2023007_Tuckerman.gpr



LEGEND

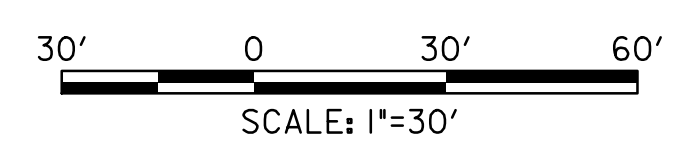
T-73		TREE > 24"-29" DBH WITH CRITICAL ROOT ZONE (CRZ)	H1	HEDGROW
T-73		TREE REMOVAL	TC1	TREE CANOPY
T-29		SPECIMEN TREE > 30" DBH WITH CRITICAL ROOT ZONE (CRZ)		PERENNIAL/INTERMITTENT STREAM
T-29		SPECIMEN TREE REMOVAL		STREAM BUFFER
		STUMP		25' WETLAND BUFFER
FS1		FOREST STAND		100-YEAR FLOODPLAIN (FEMA)
W1		WETLANDS / WATER FEATURE		FOREST CANOPY (AERIAL EXTENT)
		ROOT PRUNE		PROPOSED LIMITS OF DISTURBANCE
		TREE PROTECTION FENCE		PARKLANDS
				EXISTING PROPERTY LINE
				SLOPES > 25%
				STUDY BOUNDARY



MD Licensed Forester Date
 Name: Scott Aikenhead
 Address: 10150 York Road, Hunt Valley, MD 21030
 Phone: 410-494-9093
 saikenhead@wallacemontgomery.com

3/9/2023

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 Hunt Valley, Maryland 21030
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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section
 APPROVED _____ Date _____

Chief, Division of Transportation Engineering
 APPROVED _____ Date _____

Designed by: SA Drawn by: SA Checked by: MUB

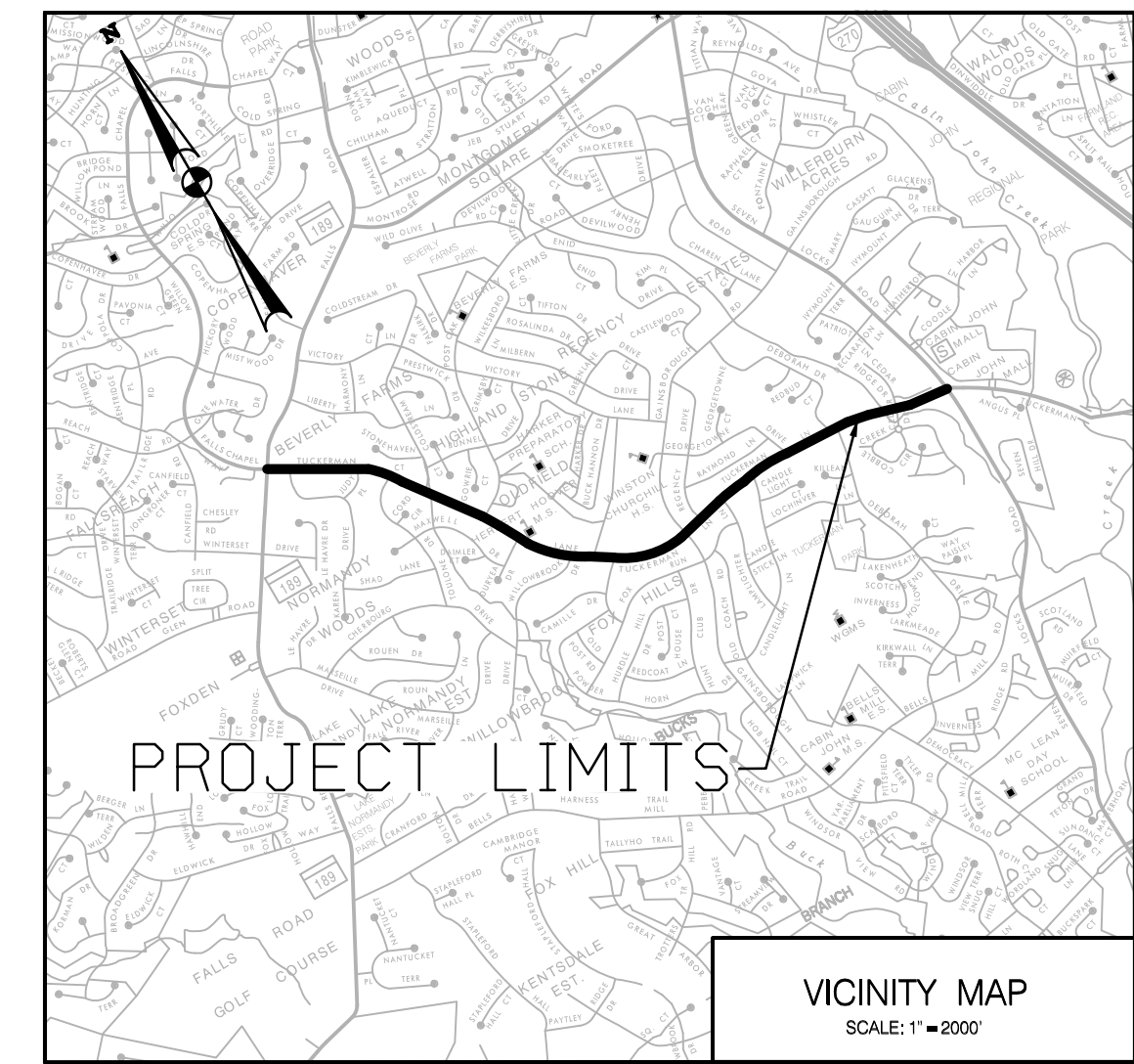
TREE SAVE PLAN
 TUCKERMAN LANE SIDEWALK /
 BIKEWAY PROJECT - SEGMENT 1
 TSP-MR2023007

COUNTY: MONTGOMERY
 STATE: MARYLAND
 ELECTION DISTRICT: 1.1
 TAX MAPS: H031, H032, G0121
 MISC: 214NW08, 214NW09
 GRIDS: 215NW09

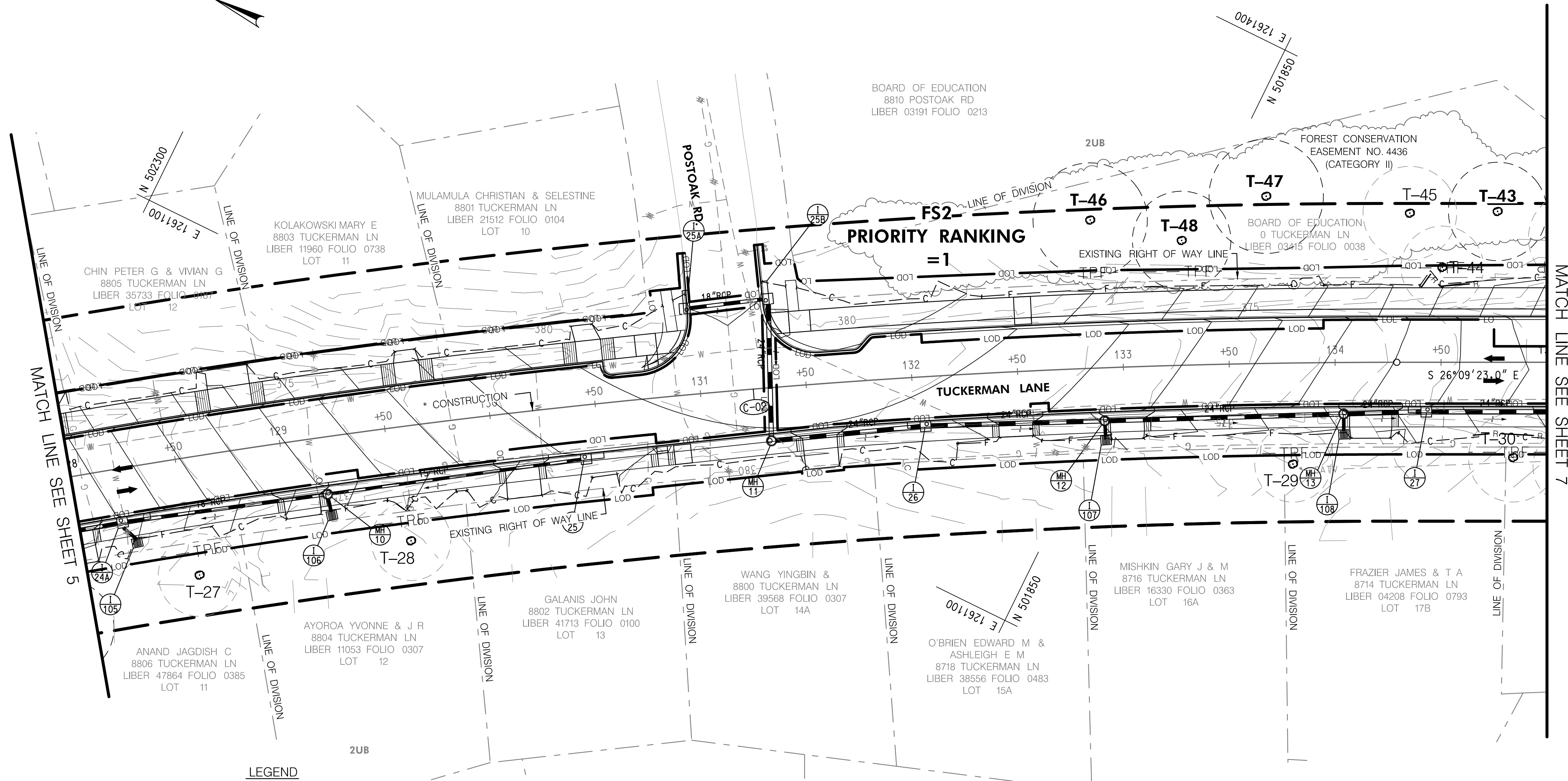
SCALE: 1"=30'
 DATE: MARCH 2023

Project No.: CIP# 509337 SHEET 5 OF 17

BY: saikenhead
 FILE: M:\PROJECTS\2023\0001\Envs\Case\Tuckerman\TSP_MR2023007_TSP_MR2023007.dwg
 DATE: 3/9/2023 10:00 AM



VICINITY MAP
SCALE: 1"=2000'



BOARD OF EDUCATION
8810 POSTOAK RD
LIBER 03191 FOLIO 0213

PRIORITY RANKING = 1

TUCKERMAN LANE

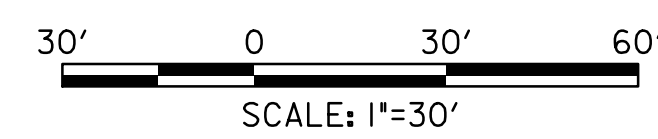
LEGEND

T-73	TREE >24"-29" DBH WITH CRITICAL ROOT ZONE (CRZ)	H1	HEDGROW
T-73	TREE REMOVAL	TC1	TREE CANOPY
T-29	SPECIMEN TREE >30" DBH WITH CRITICAL ROOT ZONE (CRZ)	WUS	PERENNIAL/INTERMITTENT STREAM
T-29	SPECIMEN TREE REMOVAL	SB	STREAM BUFFER
	STUMP	B	25' WETLAND BUFFER
FS1	FOREST STAND	65B	100-YEAR FLOODPLAIN (FEMA)
W1	WETLANDS /WATER FEATURE	54A	SOIL BOUNDARY
R	ROOT PRUNE		FOREST CANOPY (AERIAL EXTENT)
TPF	TREE PROTECTION FENCE	LOD	PROPOSED LIMITS OF DISTURBANCE
		P	PARKLANDS
			EXISTING PROPERTY LINE
			SLOPES > 25%
			STUDY BOUNDARY



3/9/2023
MD Licensed Forester Date
Name: Scot Aitkenhead
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saitkenhead@wallacemontgomery.com

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www.wallacemontgomery.com A Limited Liability Partnership

NO.	REVISION	DATE	BY

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section
APPROVED _____ Date _____

Chief, Division of Transportation Engineering
APPROVED _____ Date _____

Designed by: SA Drawn by: SA Checked by: MUB

TSP-6

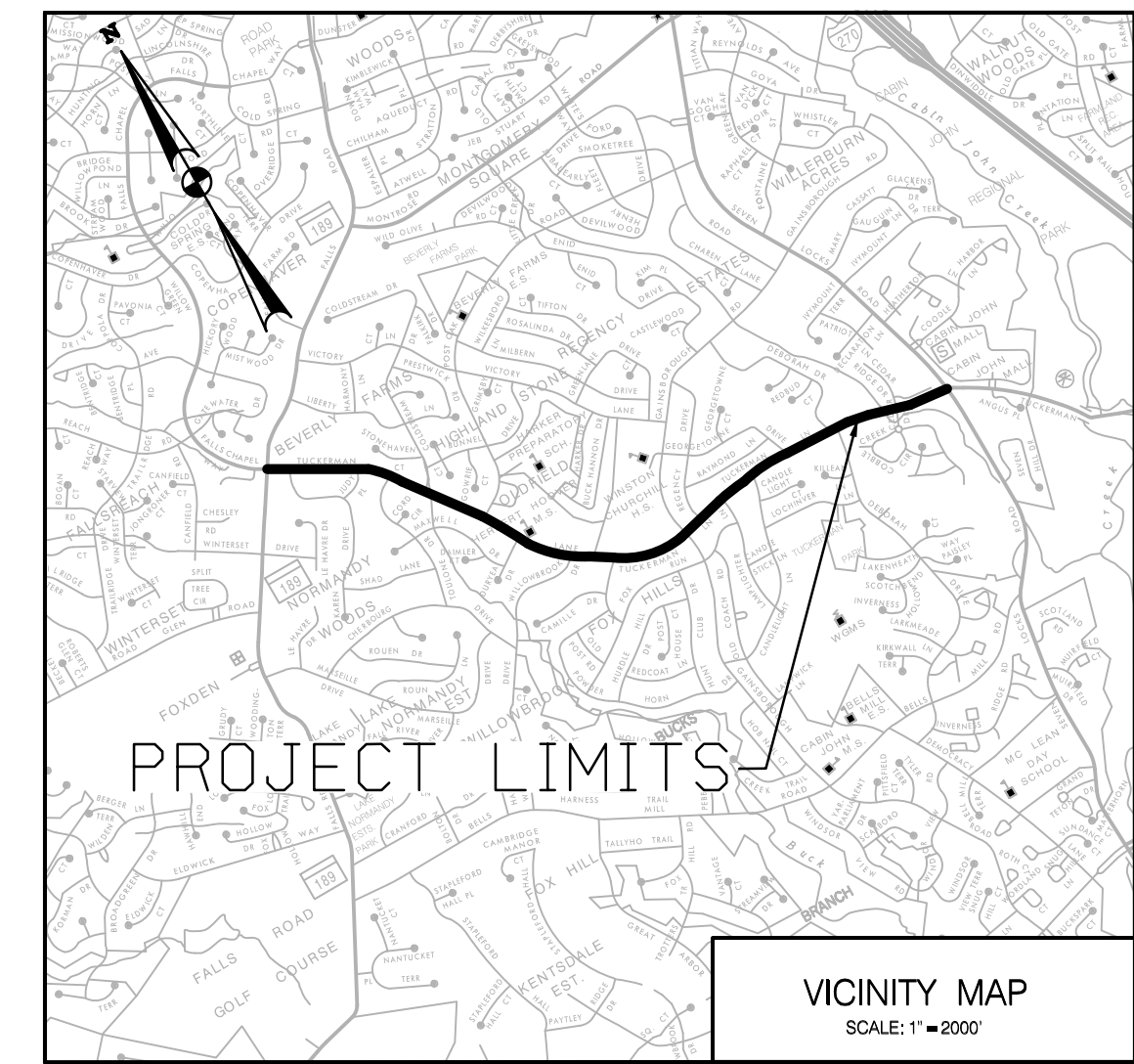
TREE SAVE PLAN
TUCKERMAN LANE SIDEWALK /
BIKEWAY PROJECT - SEGMENT 1
TSP-MR2023007

COUNTY: MONTGOMERY
STATE: MARYLAND
ELECTION DISTRICT 1.1
TAX MAPS: H031, H032, G0121
MSSC: 214NW08, 214NW09, 215NW09
GRID5

SCALE: 1"=30' DATE: MARCH 2023

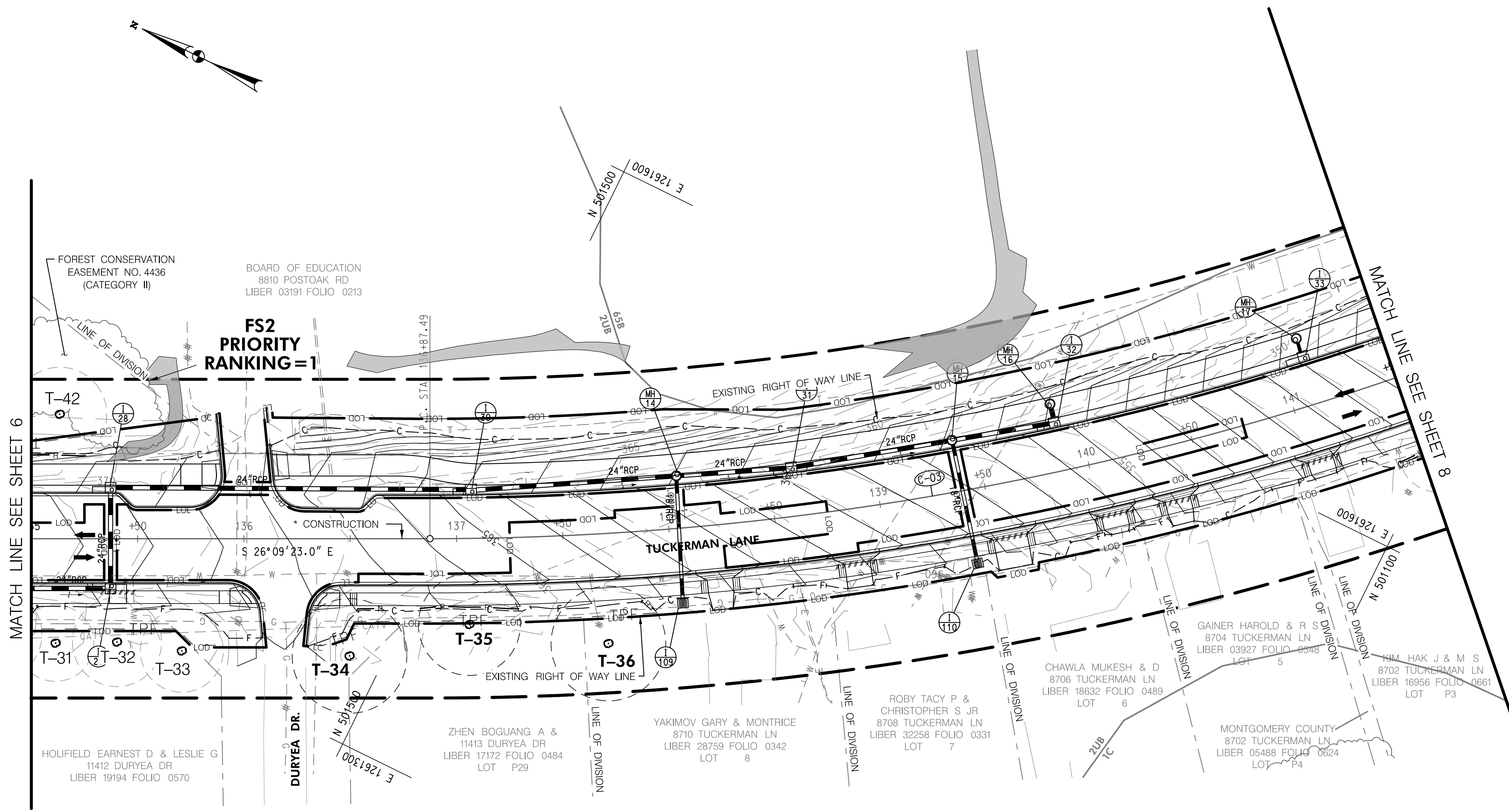
Project No.: CIP# 509337 SHEET 6 OF 17

BY: saikenhead
FILE: M:\PROJECTS\2023\10001\Envs\Case\Tuckerman\TSP_Montgomery.dgn



PROJECT LIMITS

VICINITY MAP
SCALE: 1" = 2000'



**FS2
PRIORITY
RANKING=1**

TUCKERMAN LANE

LEGEND

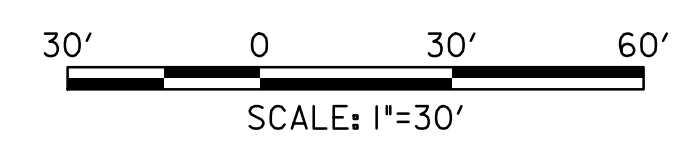
- T-73 TREE >24"-29" DBH WITH CRITICAL ROOT ZONE (CRZ)
- T-73 TREE REMOVAL
- T-29 SPECIMEN TREE >30" DBH WITH CRITICAL ROOT ZONE (CRZ)
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- H1** HEDGROW
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- PERENNIAL/INTERMITTENT STREAM
- STREAM BUFFER
- 25' WETLAND BUFFER
- 100-YEAR FLOODPLAIN (FEMA)
- SOIL BOUNDARY
- FOREST CANOPY (AERIAL EXTENT)
- PROPOSED LIMITS OF DISTURBANCE
- PARKLANDS
- EXISTING PROPERTY LINE
- SLOPES > 25%
- STUDY BOUNDARY



3/9/2023

MD Licensed Forester Date
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Address: 10150 York Road, Hunt Valley, MD 21030
Phone: 410-494-9093
saitkenhead@wallacemontgomery.com

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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section
APPROVED _____ Date _____

Chief, Division of Transportation Engineering
APPROVED _____ Date _____

Designed by: SA _____ Drawn by: SA _____ Checked by: MUB _____

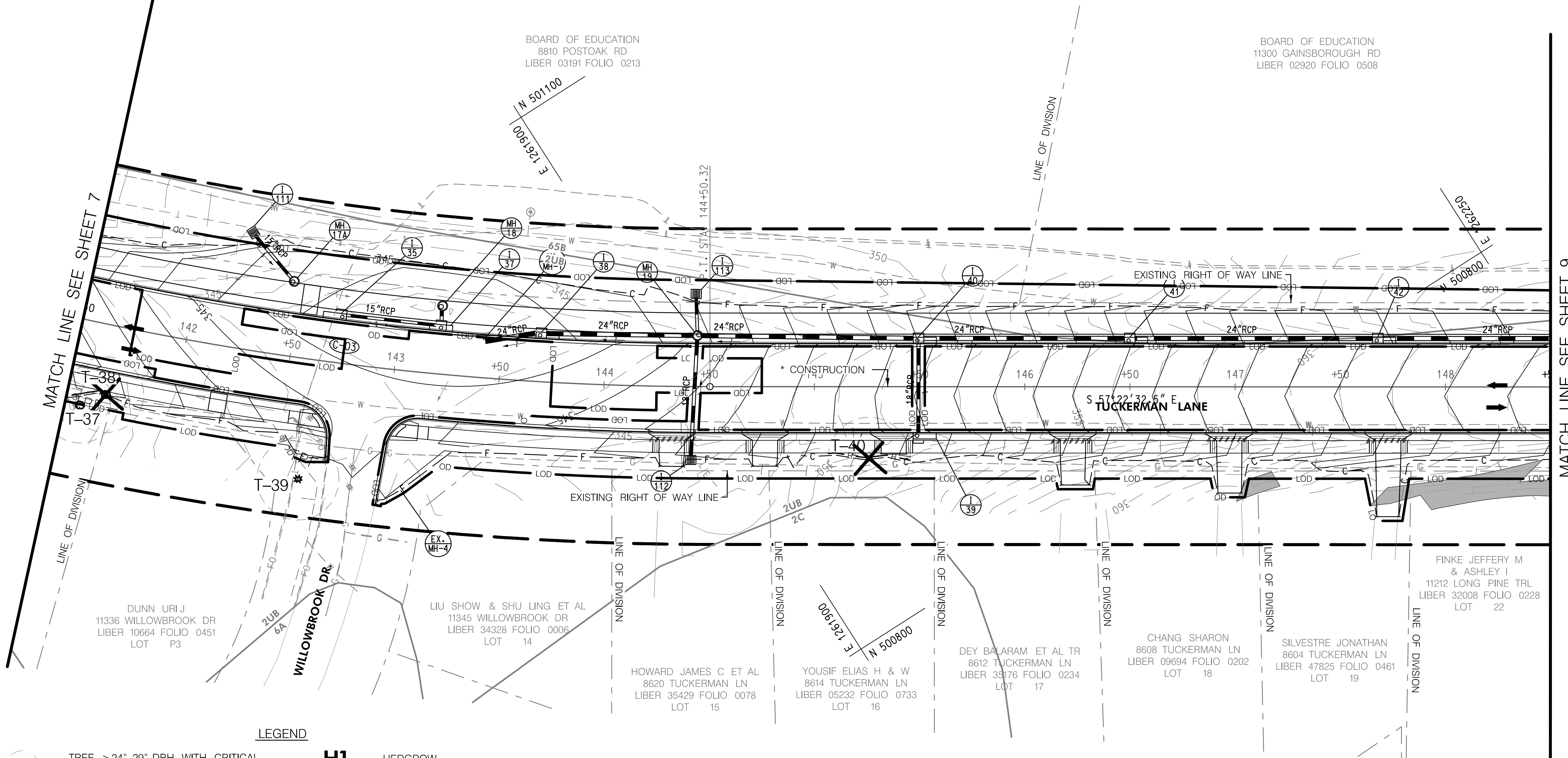
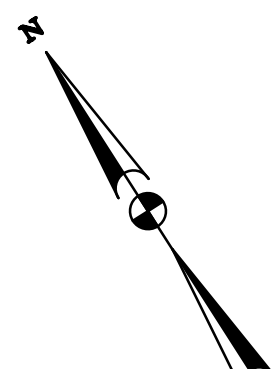
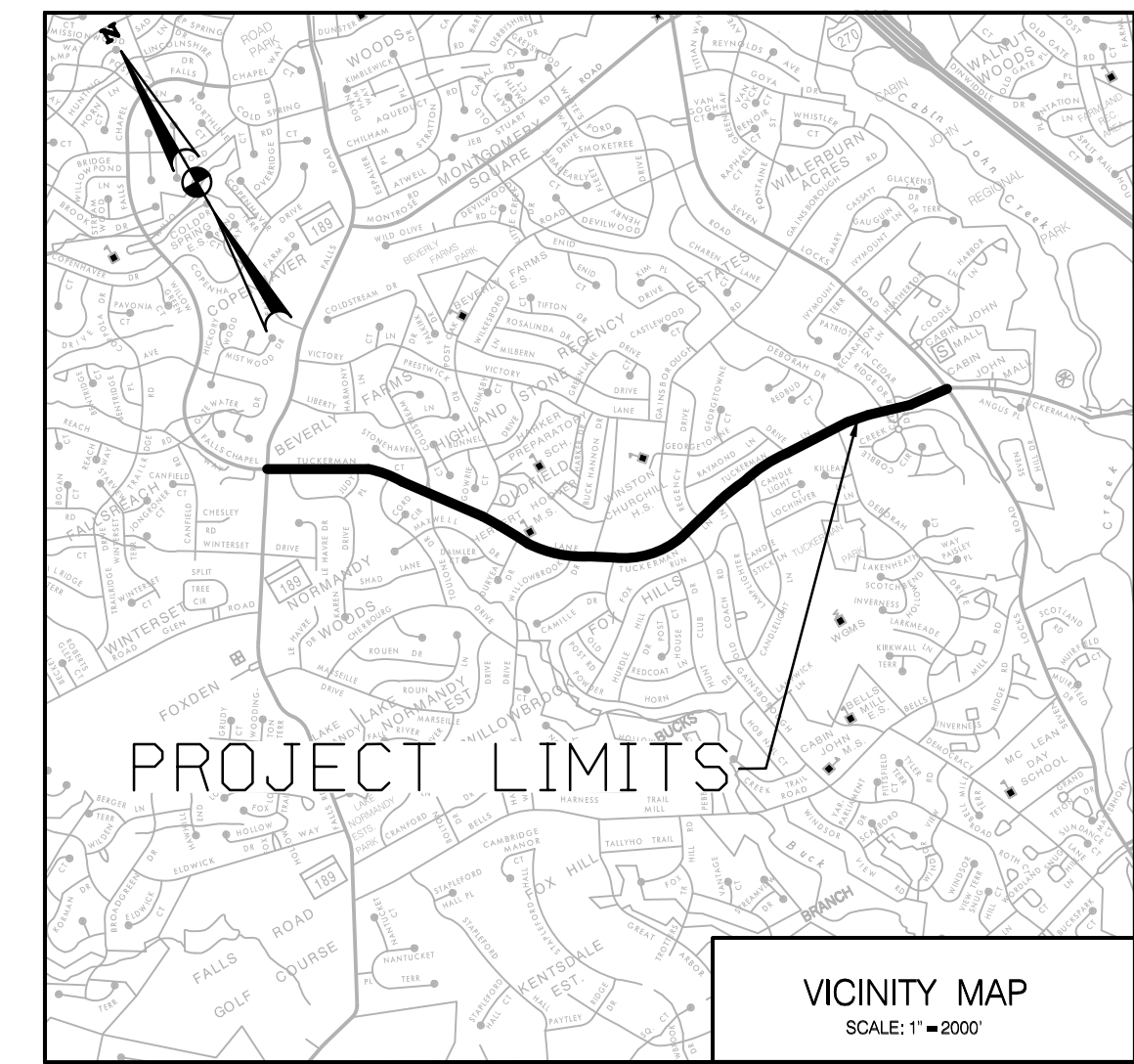
TSP-7

TREE SAVE PLAN
TUCKERMAN LANE SIDEWALK /
BIKEWAY PROJECT - SEGMENT 1
TSP-MR2023007

COUNTY: MONTGOMERY
STATE: MARYLAND
ELECTION DISTRICT: 1.1
TAX MAPS: H031, H032, G0121
MSSC: 214NW08, 214NW09, 215NW09
SCALE: 1"=30'
GRID: _____ DATE: MARCH 2023

Project No.: CIP# 509337 SHEET 7 OF 17

BY: saitenhead
FILE: M:\PROJECTS\2023\0001\Envs\Case_1_Environment\Tree_Save_Plan\35%_NR-TSP09_Tuckerman.dgn

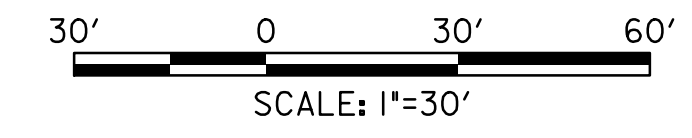


LEGEND

T-73		TREE > 24"-29" DBH WITH CRITICAL ROOT ZONE (CRZ)	H1	HEDGROW
T-73		TREE REMOVAL	TC1	TREE CANOPY
T-29		SPECIMEN TREE > 30" DBH WITH CRITICAL ROOT ZONE (CRZ)		PERENNIAL/INTERMITTENT STREAM
T-29		SPECIMEN TREE REMOVAL		STREAM BUFFER
		STUMP		25' WETLAND BUFFER
FS1		FOREST STAND		100-YEAR FLOODPLAIN (FEMA)
W1		WETLANDS / WATER FEATURE		FOREST CANOPY (AERIAL EXTENT)
		ROOT PRUNE		PROPOSED LIMITS OF DISTURBANCE
		TREE PROTECTION FENCE		PARKLANDS
				EXISTING PROPERTY LINE
				SLOPES > 25%
				STUDY BOUNDARY



3/9/2023
 MD Licensed Forester Date
 Name: Scot Aitkenhead
 Address: 10150 York Road, Hunt Valley, MD 21030
 Phone: 410-494-9093
 saikenhead@wallacemontgomery.com



WALLACE MONTGOMERY
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 Hunt Valley, Maryland 21030
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NO.	REVISION	DATE	BY

35% SUBMITTAL

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section
 APPROVED _____ Date _____

Chief, Division of Transportation Engineering
 APPROVED _____ Date _____

Designed by : SA Drawn by : SA Checked by : MJB

TSP-8

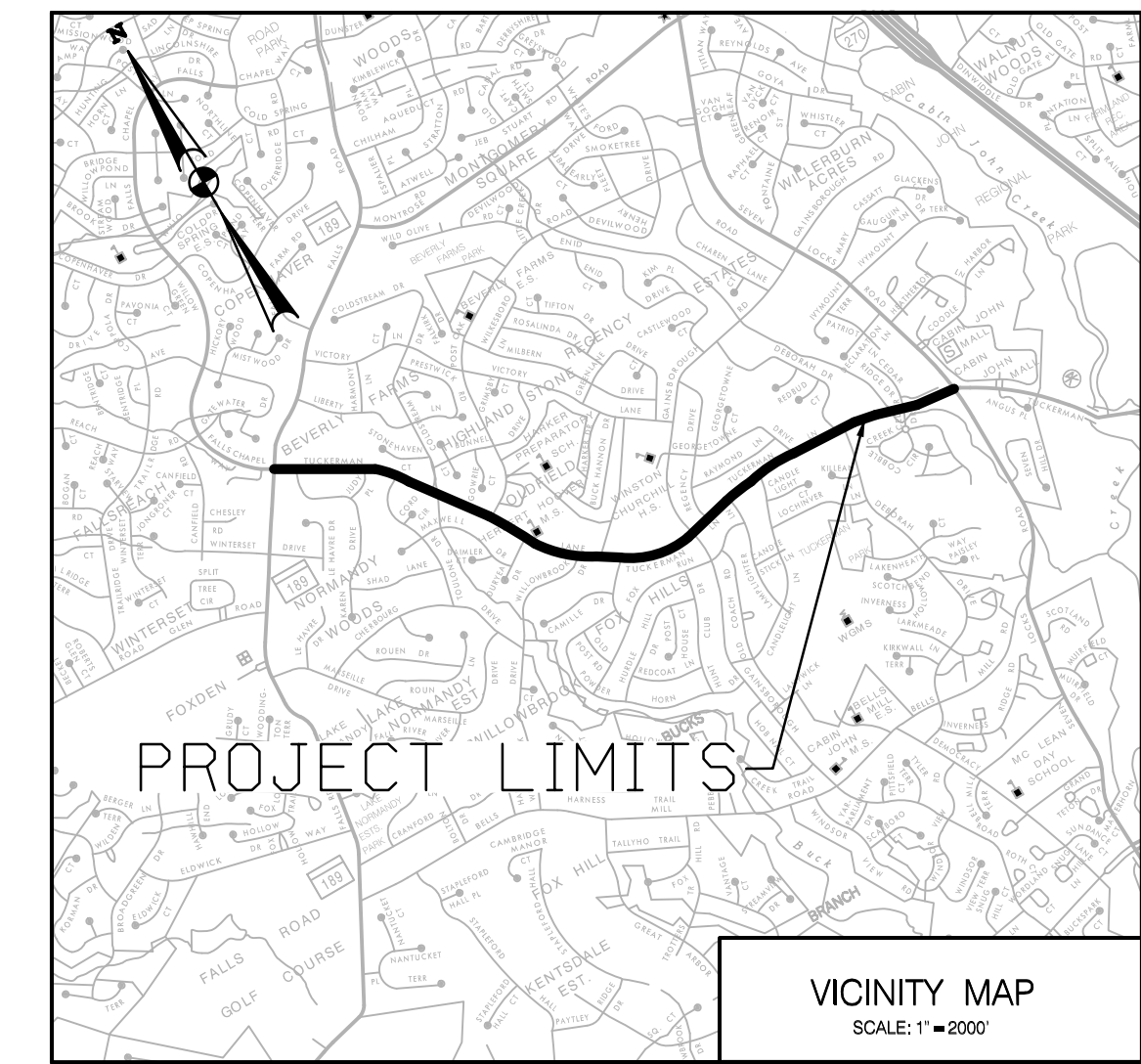
TREE SAVE PLAN
 TUCKERMAN LANE SIDEWALK /
 BIKEWAY PROJECT - SEGMENT 1
 TSP-MR2023007

COUNTY: MONTGOMERY
 STATE: MARYLAND
 ELECTION DISTRICT: 1.1
 TAX MAPS: H031, H032, G0121
 WSSC: 214NW08, 214NW09, 215NW09
 GRIDS: _____

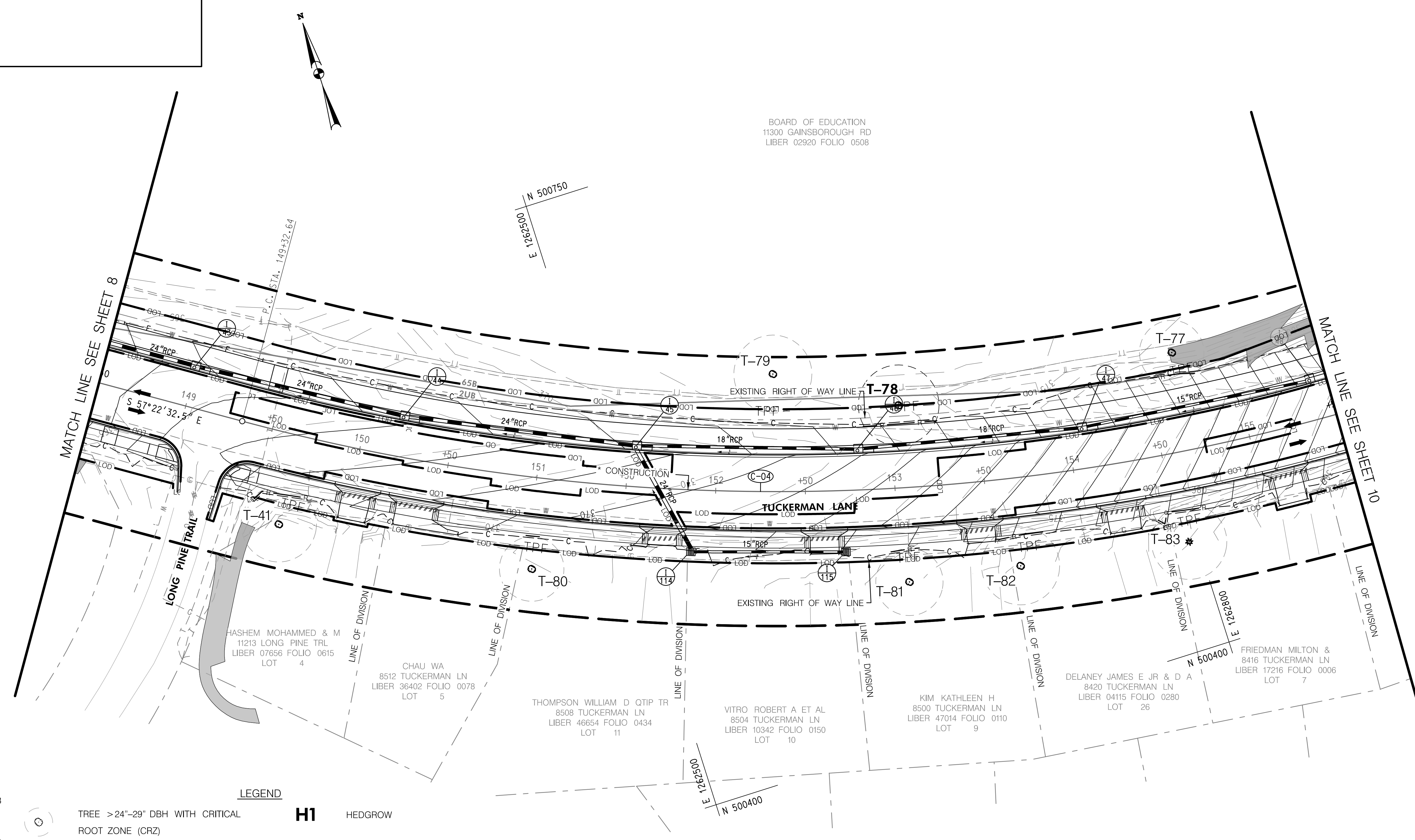
SCALE: 1"=30' DATE: MARCH 2023

Project No. : CIP# 509337 SHEET 8 OF 17

BY: saikenhead
 FILE: M:\PROJECTS\2023\0001\Envs\Case\Tuckerman\TSP2_Tuckerman.dgn



BOARD OF EDUCATION
11300 GAINSBOROUGH RD
LIBER 02920 FOLIO 0508

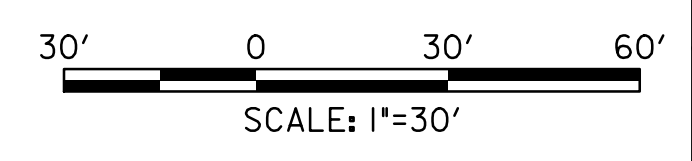


LEGEND			
T-73	TREE >24"-29" DBH WITH CRITICAL ROOT ZONE (CRZ)	H1	HEDGROW
T-73	TREE REMOVAL	TC1	TREE CANOPY
T-29	SPECIMEN TREE >30" DBH WITH CRITICAL ROOT ZONE (CRZ)	WUS	PERENNIAL/INTERMITTENT STREAM
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TPF	TREE PROTECTION FENCE	LOD	PROPOSED LIMITS OF DISTURBANCE
		P	PARKLANDS
			EXISTING PROPERTY LINE
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Chief, Transportation Planning and Design Section
APPROVED _____ Date _____

Chief, Division of Transportation Engineering
APPROVED _____ Date _____

Designed by : SA Drawn by : SA Checked by : MUB

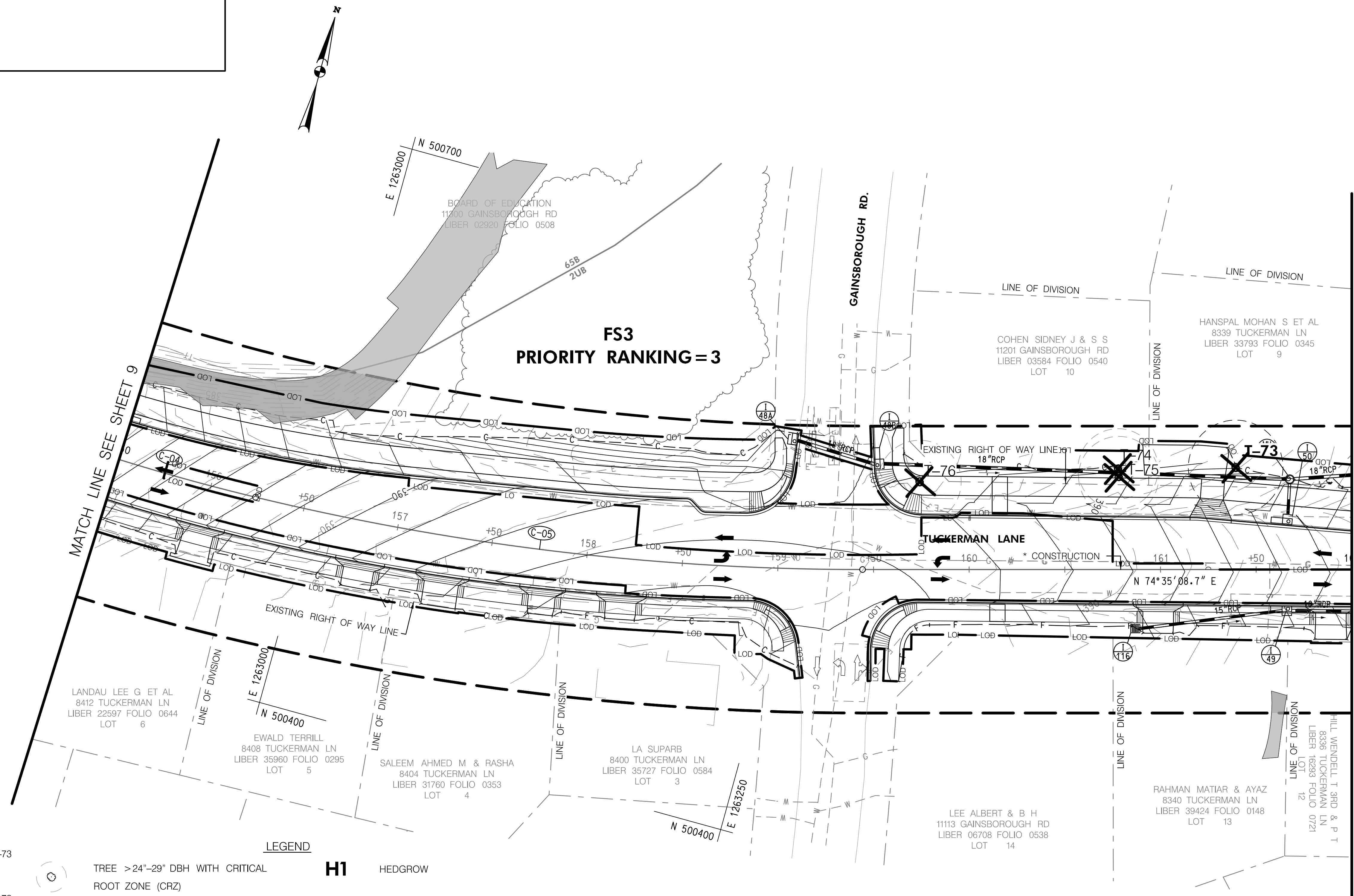
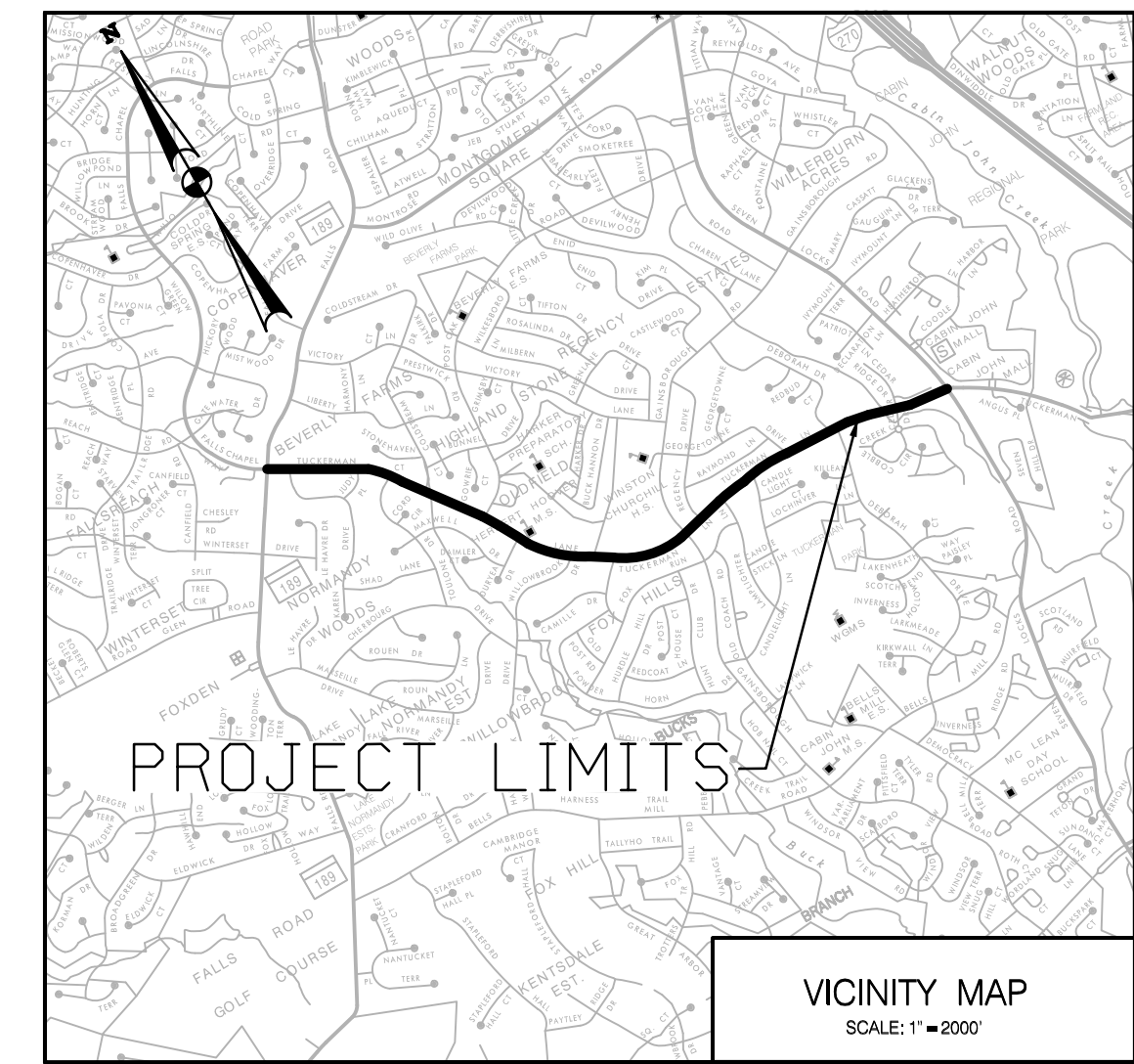
TREE SAVE PLAN
TUCKERMAN LANE SIDEWALK /
BIKEWAY PROJECT - SEGMENT 1
TSP-MR2023007

COUNTY: MONTGOMERY
STATE: MARYLAND
ELECTION DISTRICT 1.1
TAX MAPS: H031, H032, G0121
MSSC: 214NW08, 214NW09, 215NW09

SCALE: 1"=30' DATE: MARCH 2023

Project No. : CIP# 509337 SHEET 9 OF 17

BY: scotaitkenhead
FILE: \\M:\PROJECTS\2023\TSP\Drawings\TSP99_Tuckerman.dgn



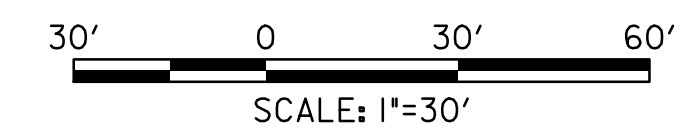
LEGEND

T-73		TREE > 24"-29" DBH WITH CRITICAL ROOT ZONE (CRZ)	H1	HEDGROW
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R		ROOT PRUNE	54A	SOIL BOUNDARY
TPF		TREE PROTECTION FENCE		FOREST CANOPY (AERIAL EXTENT)
			LOD	PROPOSED LIMITS OF DISTURBANCE
			P	PARKLANDS
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				SLOPES > 25%
				STUDY BOUNDARY



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 saitenhead@wallacemontgomery.com

35% SUBMITTAL



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NO.	REVISION	DATE	BY

3/9/2023

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section
 APPROVED _____ Date _____

Chief, Division of Transportation Engineering
 APPROVED _____ Date _____

Designed by: SA Drawn by: SA Checked by: MUB

TSP-10

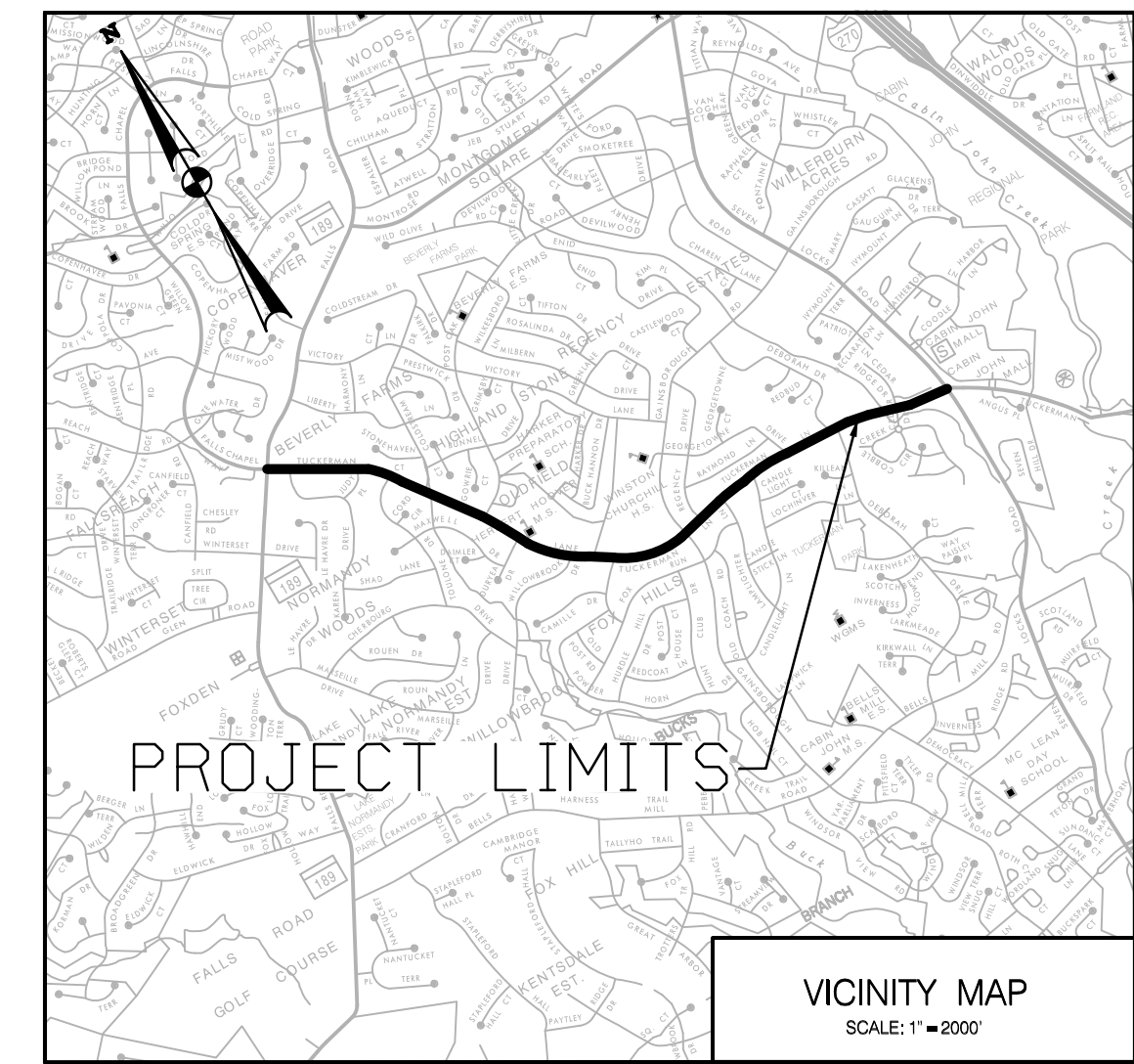
TREE SAVE PLAN
 TUCKERMAN LANE SIDEWALK /
 BIKEWAY PROJECT - SEGMENT 1
 TSP-MR2023007

COUNTY: MONTGOMERY
 STATE: MARYLAND
 ELECTION DISTRICT: 1.1
 TAX MAPS: H031, H032, G0121
 WSSC: 214NW08, 214NW09, 215NW09
 GRIDS

SCALE: 1"=30' DATE: MARCH 2023

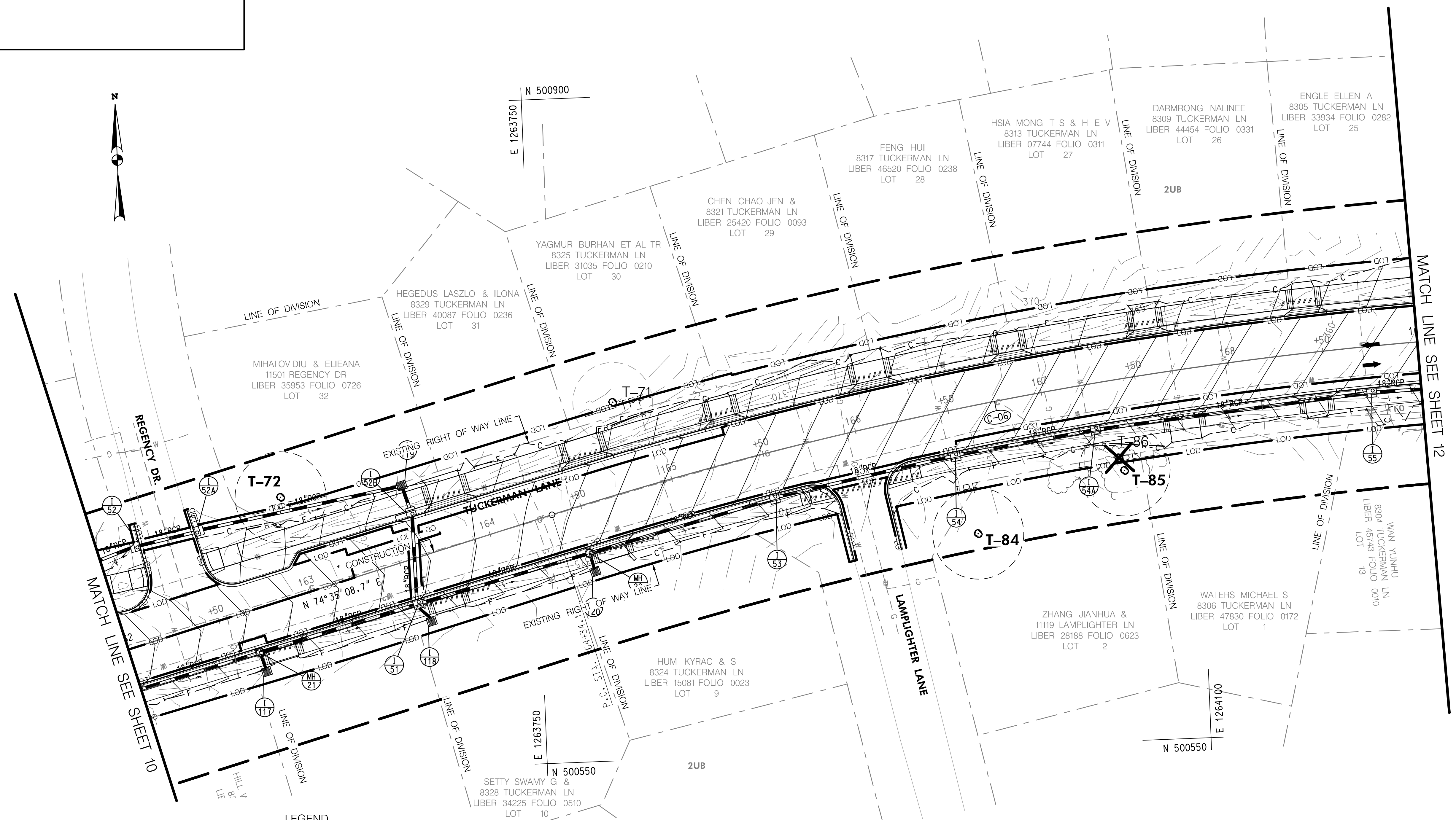
Project No.: CIP# 509337 SHEET 10 OF 17

BY: saitenhead
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PROJECT LIMITS

VICINITY MAP
SCALE: 1" = 2000'



LEGEND

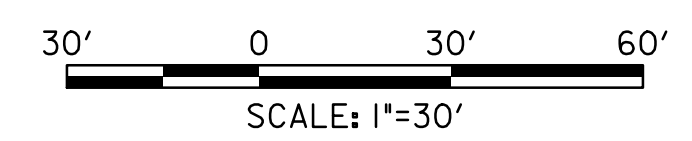
T-73		TREE > 24"-29" DBH WITH CRITICAL ROOT ZONE (CRZ)	H1	HEDGROW
T-73		TREE REMOVAL	TC1	TREE CANOPY
T-29		SPECIMEN TREE > 30" DBH WITH CRITICAL ROOT ZONE (CRZ)		PERENNIAL/INTERMITTENT STREAM
T-29		SPECIMEN TREE REMOVAL		STREAM BUFFER
		STUMP		25' WETLAND BUFFER
FS1		FOREST STAND		SOIL BOUNDARY
W1		WETLANDS / WATER FEATURE		FOREST CANOPY (AERIAL EXTENT)
		ROOT PRUNE		PROPOSED LIMITS OF DISTURBANCE
		TREE PROTECTION FENCE		PARKLANDS
				EXISTING PROPERTY LINE
				SLOPES > 25%
				STUDY BOUNDARY



MD Licensed Forester Date
 Name: Scot Aitkenhead
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 Phone: 410-494-9093
 saitkenhead@wallacemontgomery.com

3/9/2023

35% SUBMITTAL



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 10150 York Road, Suite 200
 Hunt Valley, Maryland 21030
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 www.wallacemontgomery.com A Limited Liability Partnership

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section
 APPROVED _____ Date _____

Chief, Division of Transportation Engineering
 APPROVED _____ Date _____

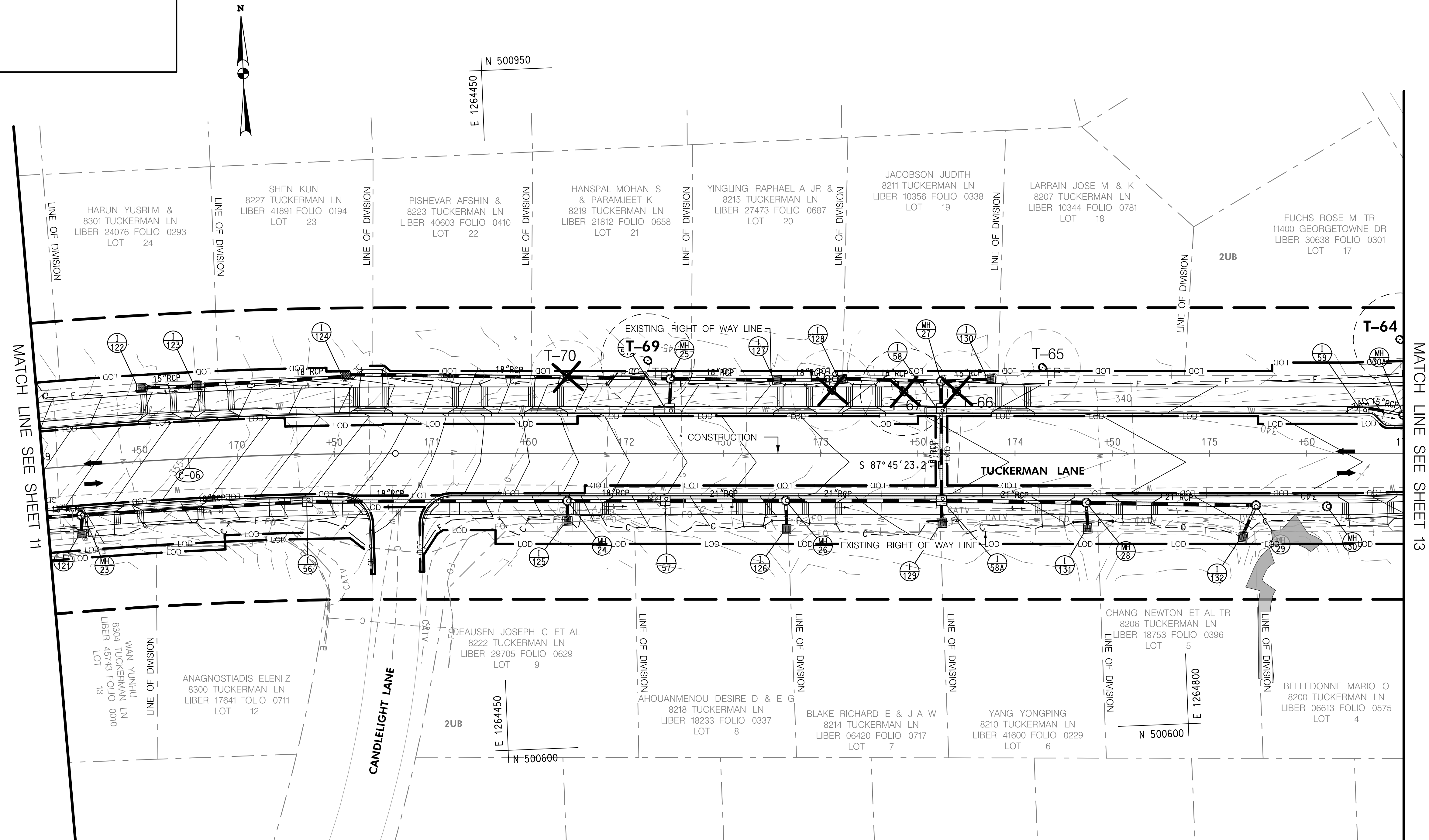
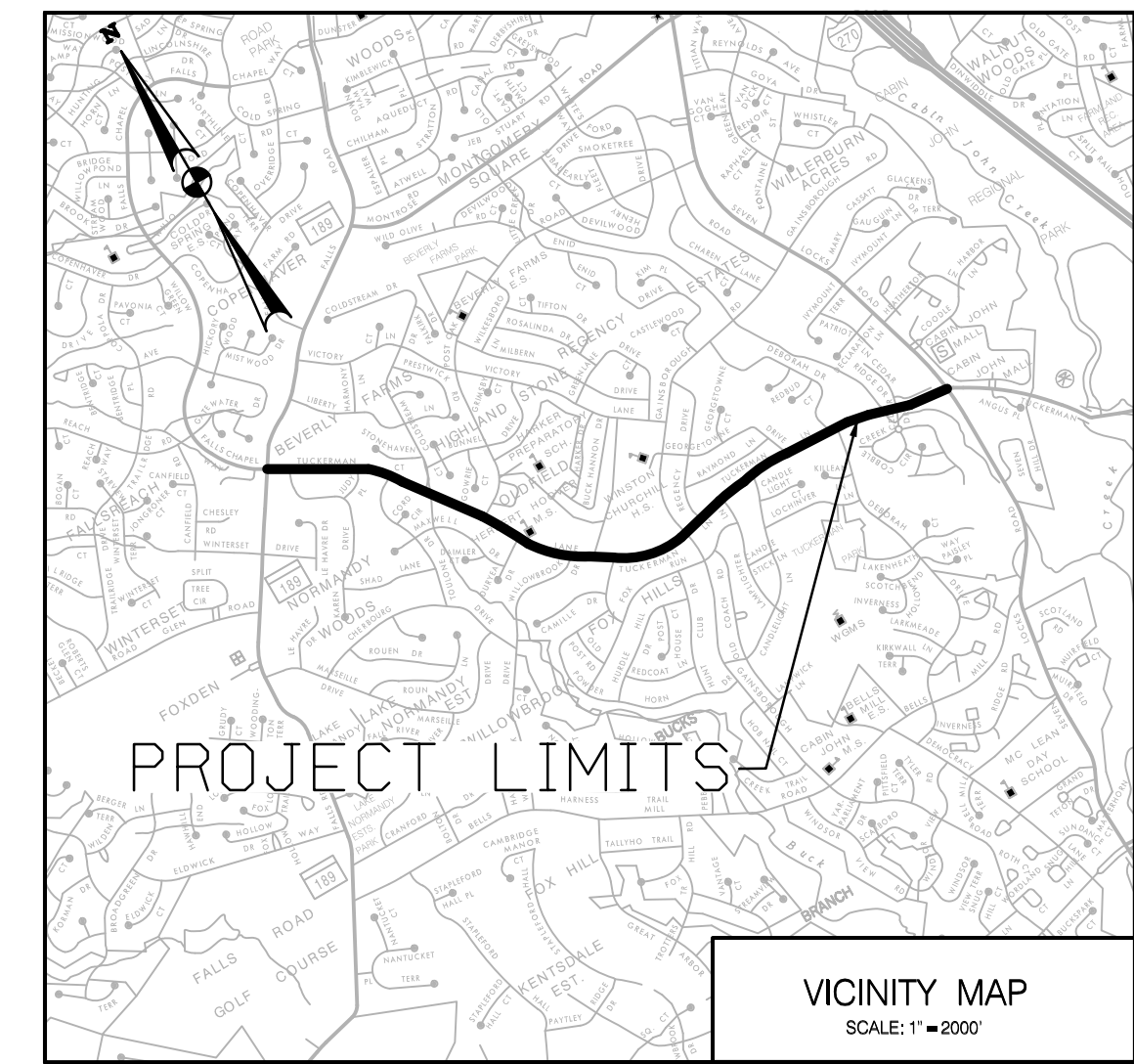
Designed by: SA Drawn by: SA Checked by: MUB

TREE SAVE PLAN
 TUCKERMAN LANE SIDEWALK /
 BIKEWAY PROJECT - SEGMENT 1
 TSP-MR2023007

COUNTY: MONTGOMERY
 STATE: MARYLAND
 ELECTION DISTRICT: 1.1
 TAX MAPS: H031, H032, G0121
 WSSC: 214NW08, 214NW09, 215NW09
 GRIDS

SCALE: 1"=30' DATE: MARCH 2023

Project No.: CIP# 509337 SHEET 11 OF 17



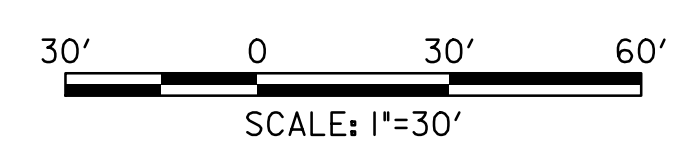
LEGEND

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T-29		SPECIMEN TREE REMOVAL		STREAM BUFFER
		STUMP		25' WETLAND BUFFER
FS1		FOREST STAND		100-YEAR FLOODPLAIN (FEMA)
W1		WETLANDS /WATER FEATURE		FOREST CANOPY (AERIAL EXTENT)
		ROOT PRUNE		PROPOSED LIMITS OF DISTURBANCE
		TREE PROTECTION FENCE		PARKLANDS
				EXISTING PROPERTY LINE
				SLOPES > 25%
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Chief, Division of Transportation Engineering
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Designed by: SA Drawn by: SA Checked by: MUB

TSP-12

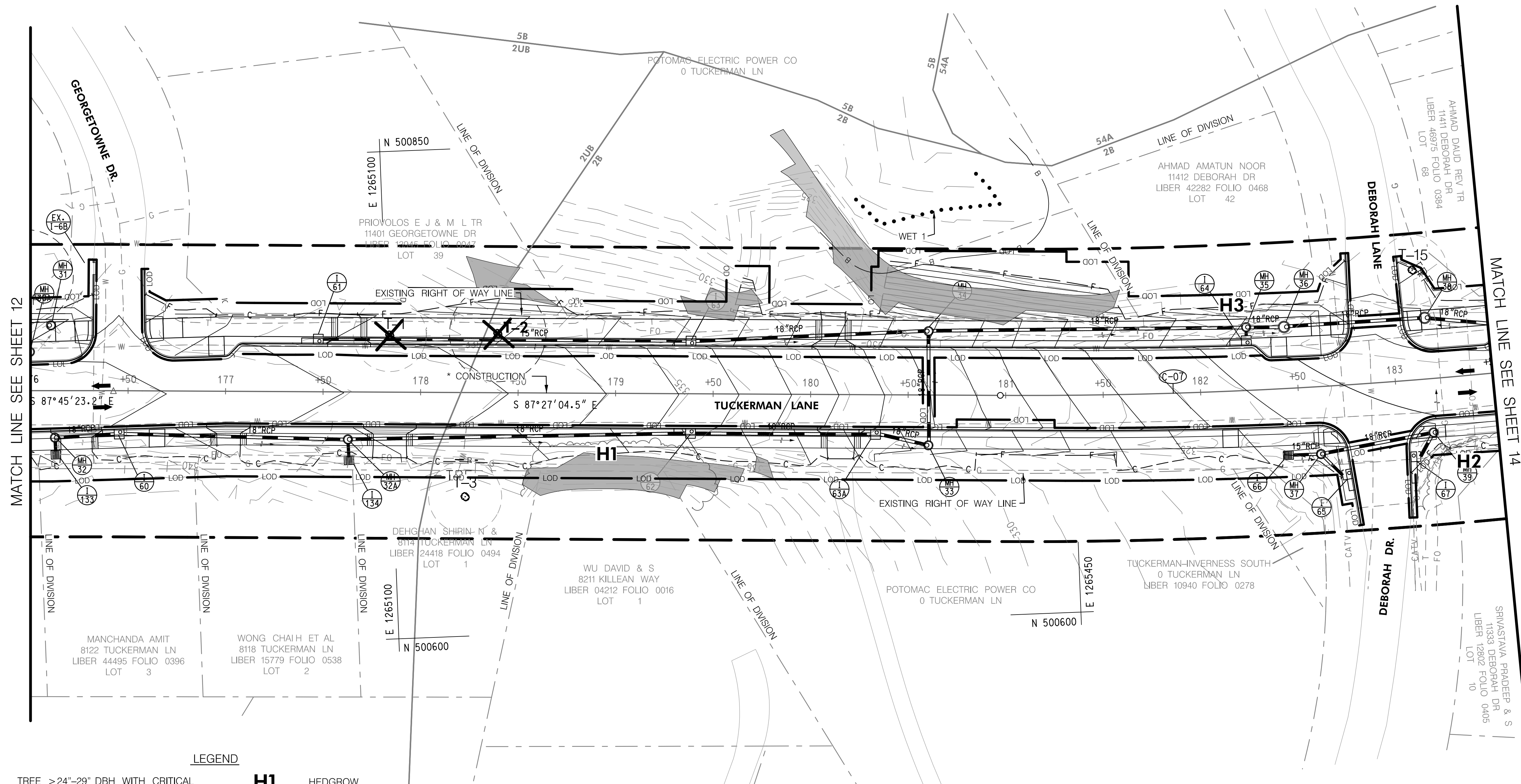
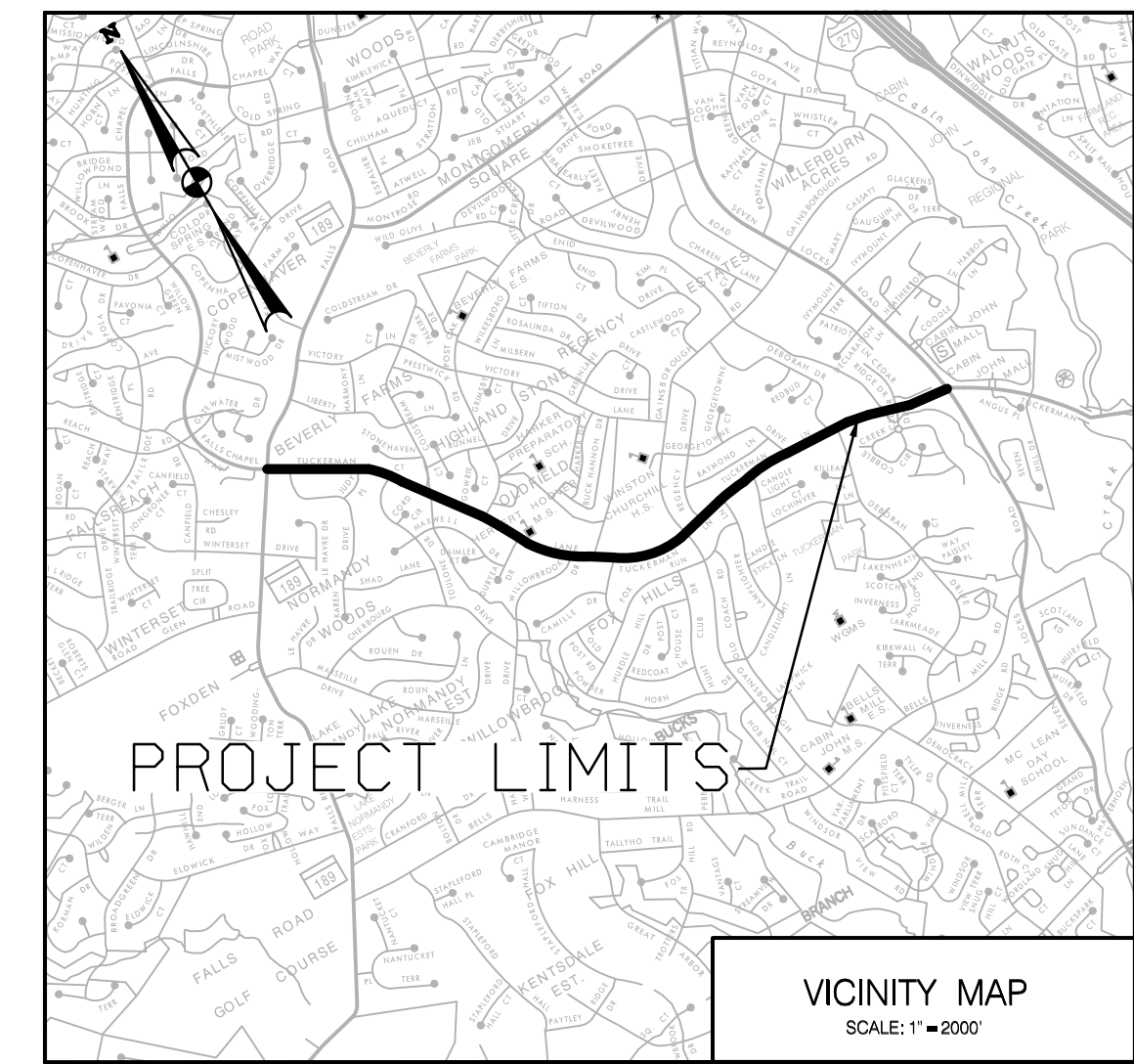
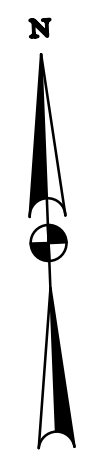
TREE SAVE PLAN
 TUCKERMAN LANE SIDEWALK /
 BIKEWAY PROJECT - SEGMENT 1
 TSP-MR2023007

COUNTY: MONTGOMERY
 STATE: MARYLAND
 ELECTION DISTRICT: 1.1
 TAX MAPS: H031, H032, G0121
 WSSC: 214NW08, 214NW09, 215NW09
 GRIDS: _____

SCALE: 1"=30' DATE: MARCH 2023

Project No.: CIP# 509337 SHEET 12 OF 17

BY: saitkenhead
 FILE: M:\PROJECTS\2023\TSP\12\Drawings\TSP12_Tuckerman.dwg



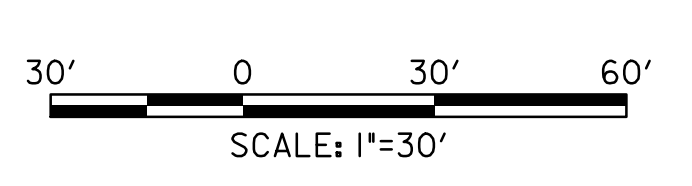
LEGEND

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		STUMP		25' WETLAND BUFFER
FS1		FOREST STAND		100-YEAR FLOODPLAIN (FEMA)
W1		WETLANDS / WATER FEATURE		FOREST CANOPY (AERIAL EXTENT)
		ROOT PRUNE		PROPOSED LIMITS OF DISTURBANCE
		TREE PROTECTION FENCE		PARKLANDS
				EXISTING PROPERTY LINE
				SLOPES > 25%
				STUDY BOUNDARY



MD Licensed Forester Date
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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section
 APPROVED _____ Date _____

Chief, Division of Transportation Engineering
 APPROVED _____ Date _____

Designed by: SA Drawn by: SA Checked by: MUB

TREE SAVE PLAN
 TUCKERMAN LANE SIDEWALK /
 BIKWAY PROJECT - SEGMENT 1
 TSP-MR2023007

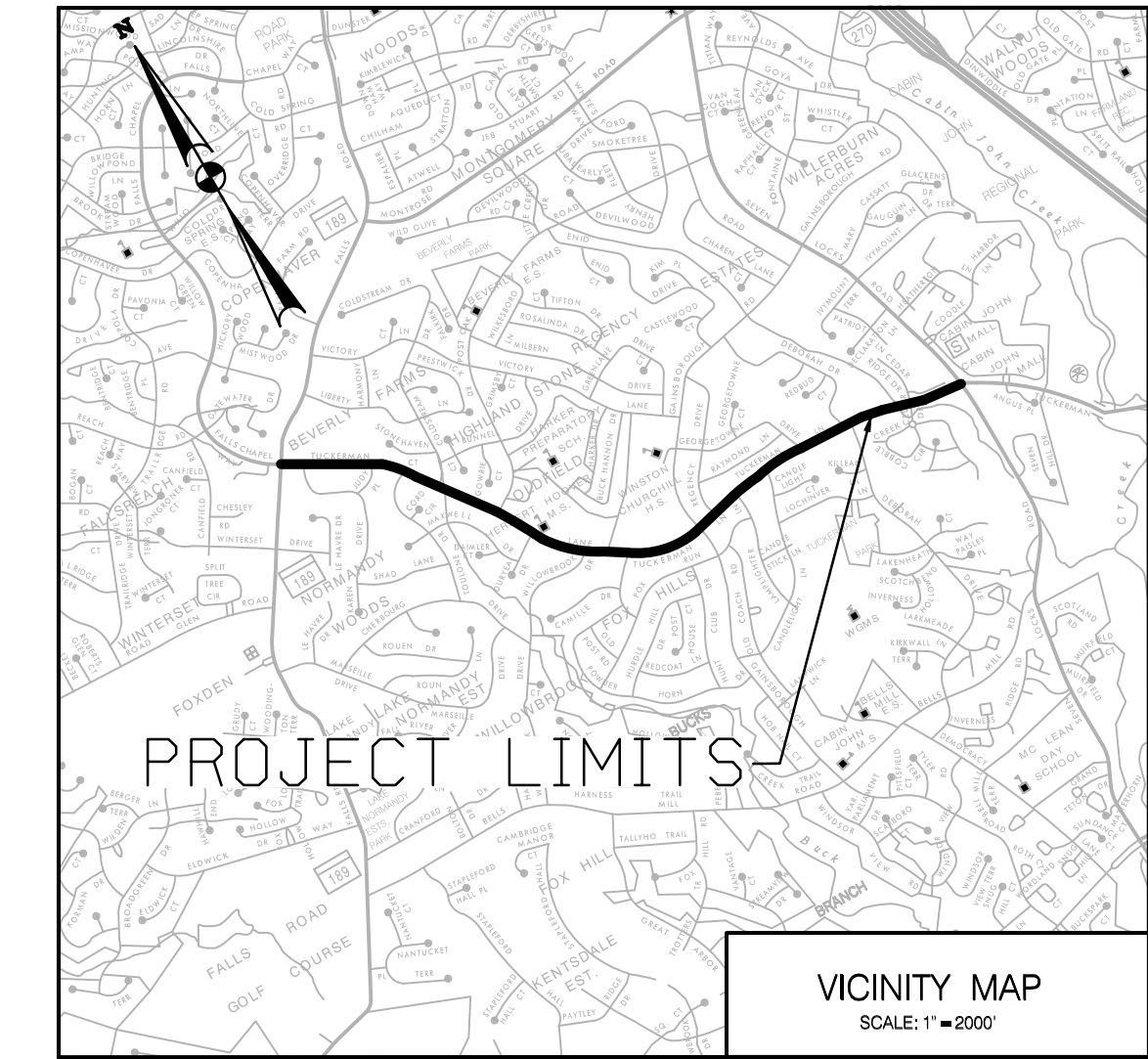
COUNTY: MONTGOMERY
 STATE: MARYLAND
 ELECTION DISTRICT: 1.1
 TAX MAPS: H031, H032, G0121
 MISC: 214NW08, 214NW09, 215NW09

SCALE: 1"=30' GRIDS

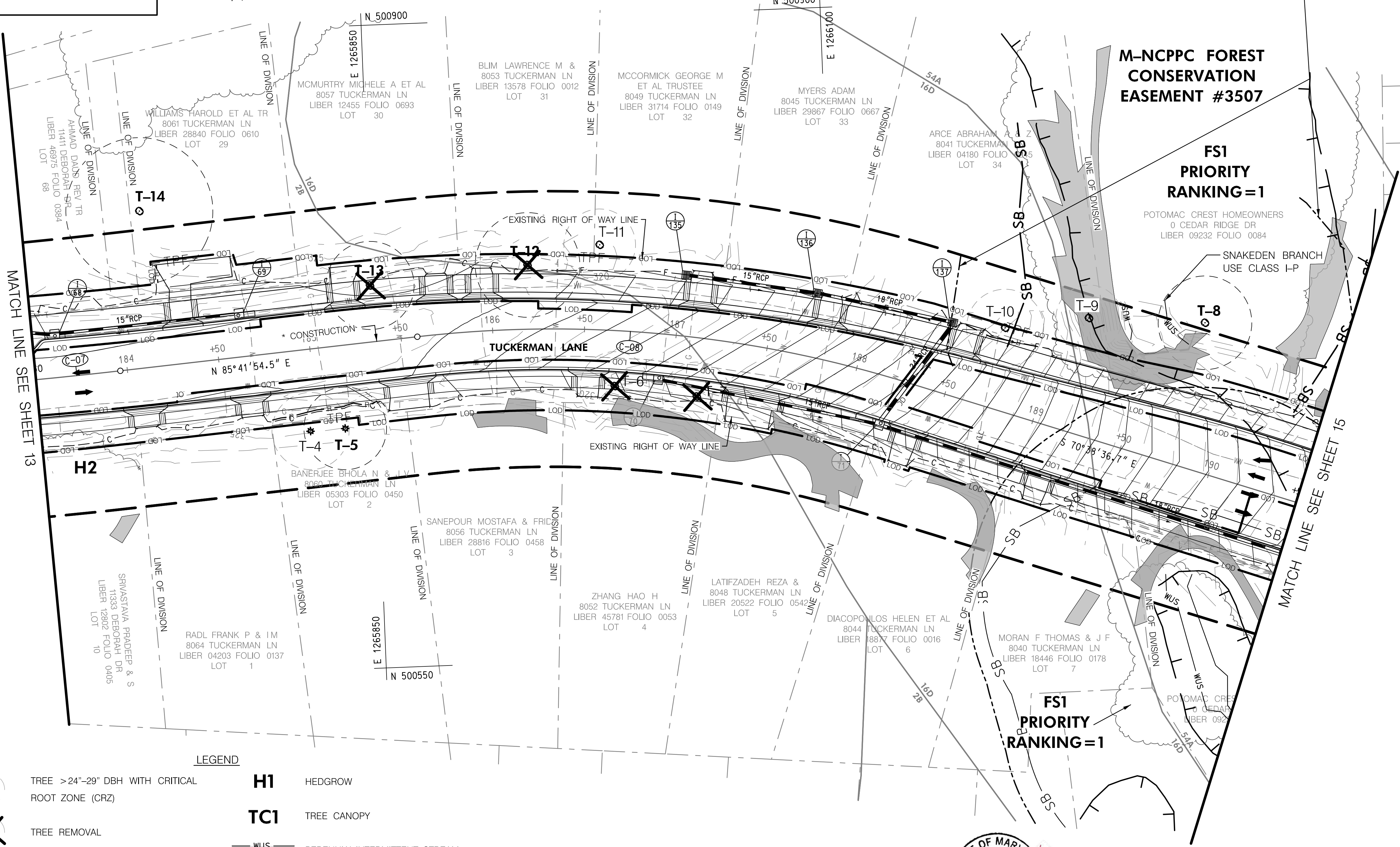
DATE: MARCH 2023

Project No.: CIP# 509337 SHEET 13 OF 17

BY: saikenhead
 FILE: M:\PROJECTS\2023\0001\Envs\Case_1_Envs\Map_Type_Save_Plan\35%_Submittal_Tuckerman.dgn



A MINIMUM 100-FOOT STREAM VALLEY SETBACK SHALL BE MAINTAINED FROM THE EDGE OF THE BANKS OF ANY WATERCOURSE DELINEATED AS HAVING A FLOODPLAIN ON THE OFFICIAL FLOODPLAIN MAPS



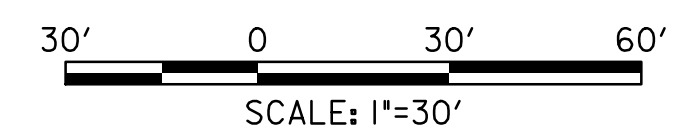
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R	ROOT PRUNE		FOREST CANOPY (AERIAL EXTENT)
TPF	TREE PROTECTION FENCE	LOD	PROPOSED LIMITS OF DISTURBANCE
		P	PARKLANDS
			EXISTING PROPERTY LINE
			SLOPES > 25%
			STUDY BOUNDARY

DIGITAL BOUNDARIES FOR THE 100-YEAR FLOODPLAIN WERE OBTAINED FOR MONTGOMERY COUNTY AT THE FEMA FLOOD MAP SERVICE CENTER IN FEBRUARY 2019.



MD Licensed Forester Date
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 saitkenhead@wallacemontgomery.com

35% SUBMITTAL



RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section
 APPROVED _____ Date _____

Chief, Division of Transportation Engineering
 APPROVED _____ Date _____

Designed by: SA Drawn by: SA Checked by: MUB

TREE SAVE PLAN
 TUCKERMAN LANE SIDEWALK /
 BIKEWAY PROJECT - SEGMENT 1
 TSP-MR2023007

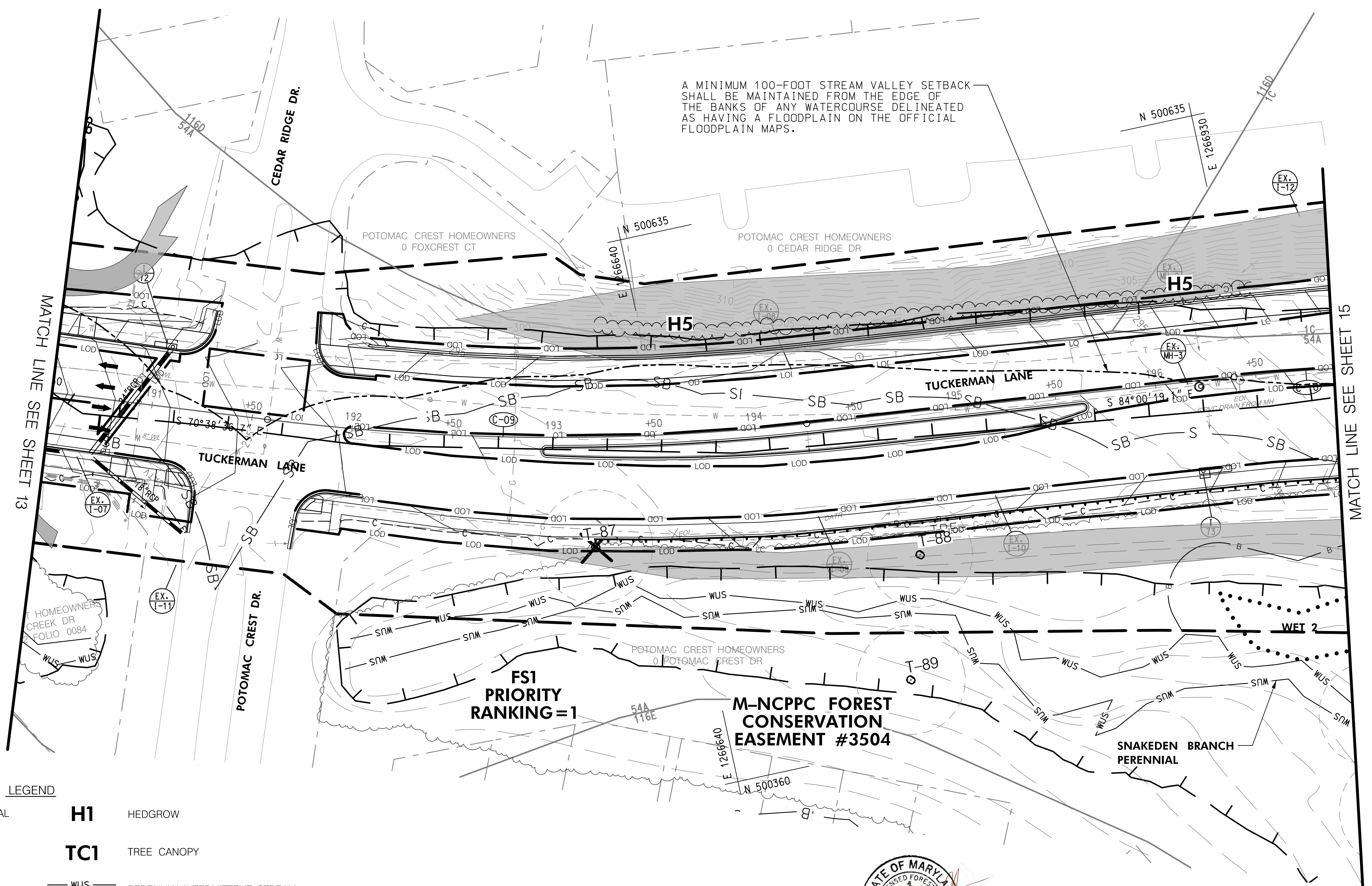
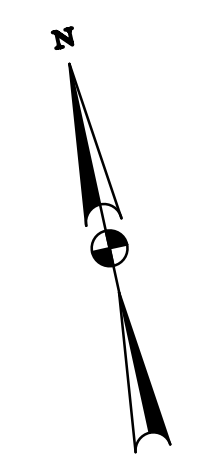
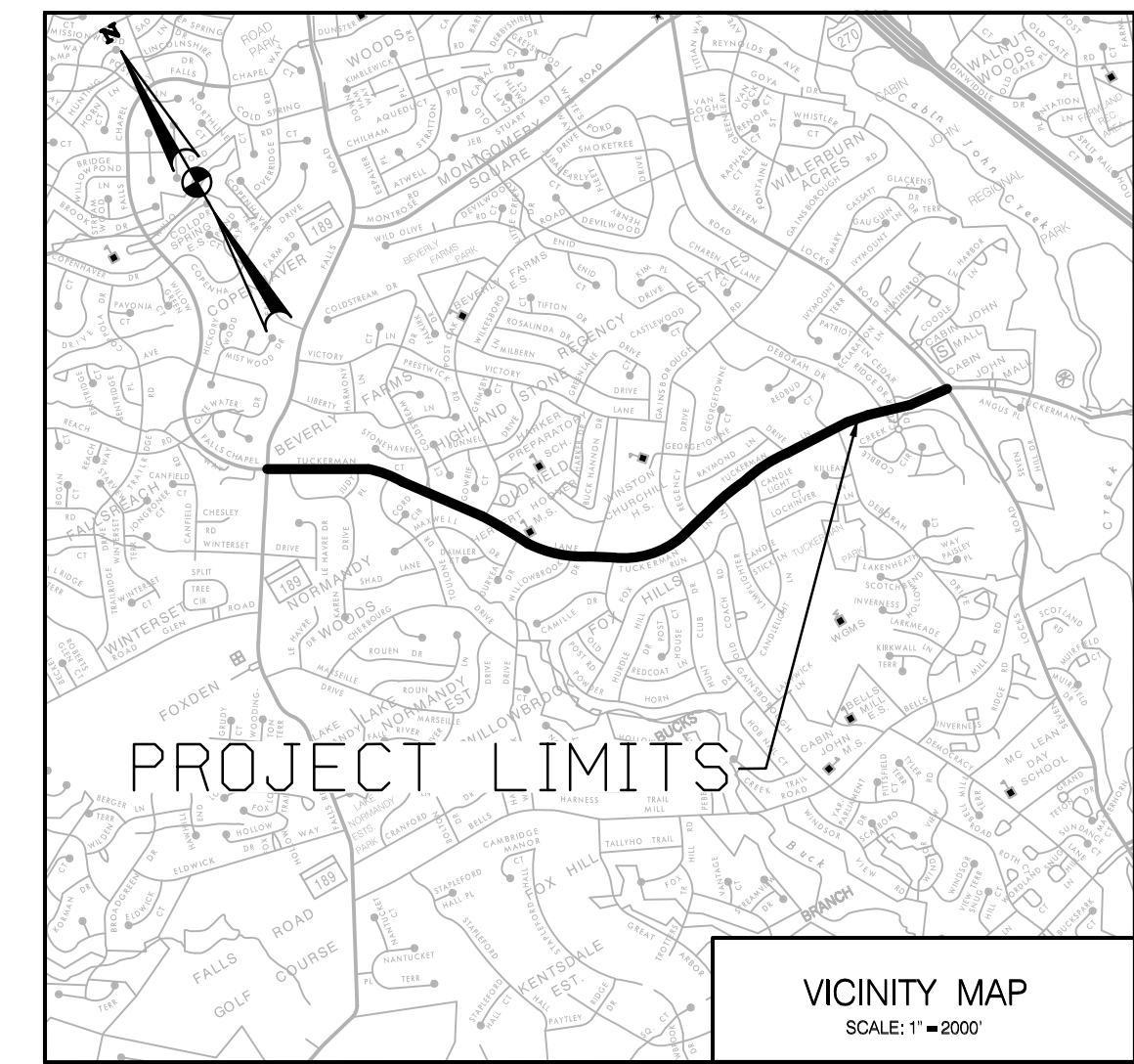
COUNTY: MONTGOMERY
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 TAX MAPS: H031, H032, G0121
 WSSC: 214NW08, 214NW09, 215NW09

SCALE: 1"=30' DATE: MARCH 2023

Project No.: CIP# 509337 SHEET 14 OF 17

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NO.	REVISION	DATE	BY



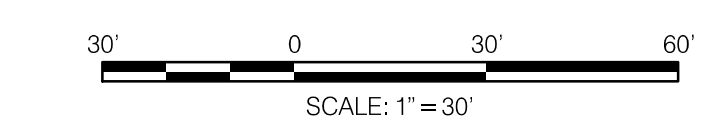
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DIGITAL BOUNDARIES FOR THE 100-YEAR FLOODPLAIN WERE OBTAINED FOR MONTGOMERY COUNTY AT THE FEMA FLOOD MAP SERVICE CENTER IN FEBRUARY 2019.

STATE OF MARYLAND
BOARD OF FORESTERS
 MD Licensed Forester
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 saitenhead@wallacemontgomery.com
 Date: 3/9/2023

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Chief, Division of Transportation Engineering
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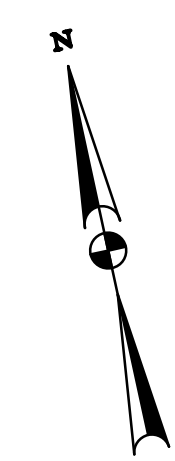
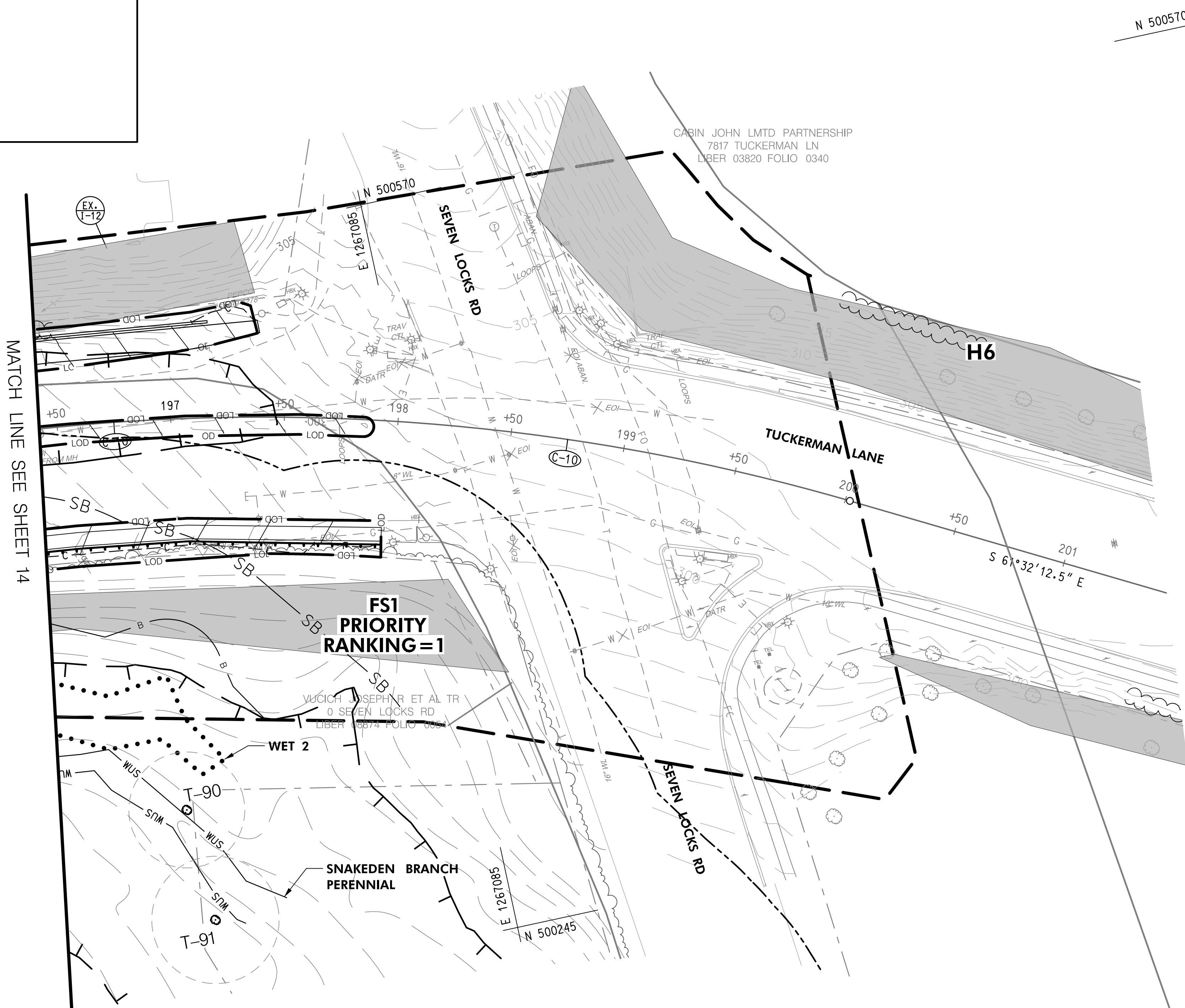
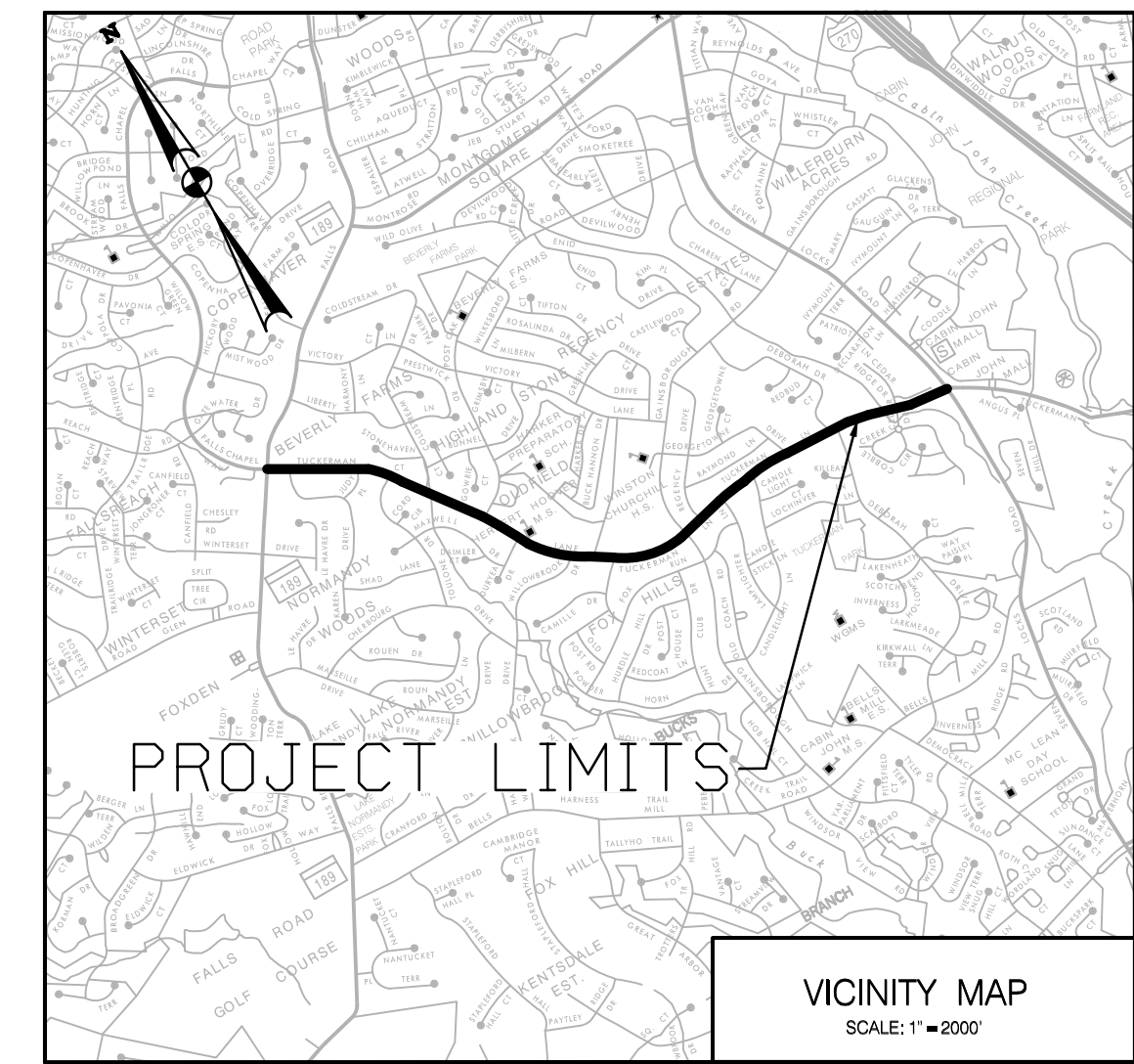
Designed by: SA Drawn by: SA Checked by: MUB

TSP-15

TREE SAVE PLAN
TUCKERMAN LANE SIDEWALK /
BIKEWAY PROJECT - SEGMENT 1
TSP-MR2023007

COUNTY: MONTGOMERY
 STATE: MARYLAND
 ELECTION DISTRICT: 1.1
 TAX MAPS: H031, H032, G0121
 WSC: 214NW08, 214NW09, 215NW09
 SCALE: _____ DATE: MARCH 2023
 Project No.: CIP# 509337 SHEET 15 OF 17

BY: saitenhead
 FILE: M:\PROJECTS\2023\03\TSP-MR2023007\Drawings\TSP-MR2023007-TuckermanLane.dgn



MATCH LINE SEE SHEET 14

LEGEND

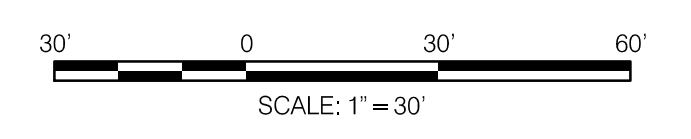
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|------------|--|---|------------|--------------------------------|
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| T-73 | | TREE REMOVAL | TC1 | TREE CANOPY |
| T-29 | | SPECIMEN TREE > 30" DBH WITH CRITICAL ROOT ZONE (CRZ) | WUS | PERENNIAL/INTERMITTENT STREAM |
| T-29 | | SPECIMEN TREE REMOVAL | WUS | PERENNIAL/INTERMITTENT STREAM |
| | | STUMP | SB | STREAM BUFFER |
| FS1 | | FOREST STAND | B | 25' WETLAND BUFFER |
| W1 | | WETLANDS / WATER FEATURE | 65B | 100-YEAR FLOODPLAIN (FEMA) |
| R | | ROOT PRUNE | 54A | SOIL BOUNDARY |
| TPF | | TREE PROTECTION FENCE | | FOREST CANOPY (AERIAL EXTENT) |
| | | | LOD | PROPOSED LIMITS OF DISTURBANCE |
| | | | P | PARKLANDS |
| | | | | EXISTING PROPERTY LINE |
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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		TREE SAVE PLAN TUCKERMAN LANE SIDEWALK / BIKEWAY PROJECT - SEGMENT 1 TSP-MR2023007
RECOMMENDED FOR APPROVAL Chief, Transportation Planning and Design Section APPROVED _____ Date _____		COUNTY: MONTGOMERY STATE: MARYLAND ELECTION DISTRICT: 1.1 TAX MAPS: H031, H032, G0121 WSSC: 214NW08, 214NW09, 215NW09 SCALE: _____ DATE: MARCH 2023 Project No.: CIP# 509337 SHEET 16 OF 17
Chief, Division of Transportation Engineering APPROVED _____ Date _____ Designed by: SA Drawn by: SA Checked by: MJB		

TREE PROTECTION NOTES:

DEFINITIONS

- 1. TREE SERVICE FIRM QUALIFICATIONS: AN EXPERIENCED TREE SERVICE FIRM THAT HAS SUCCESSFULLY COMPLETED TREE PROTECTION AND TRIMMING WORK SIMILAR TO THAT REQUIRED FOR THIS PROJECT AND THAT WILL ASSIGN AN EXPERIENCED, QUALIFIED ARBORIST TO PROJECT SITE DURING EXECUTION OF TREE PROTECTION AND TRIMMING.
2. ARBORIST QUALIFICATIONS: AN ARBORIST CERTIFIED BY ISA AND LICENSED IN THE JURISDICTION WHERE PROJECT IS LOCATED.
3. TREE PRUNING STANDARD: COMPLY WITH ANSI A300 (PART 1), "TREE, SHRUB, AND OTHER WOODY PLANT MAINTENANCE—STANDARD PRACTICES (PRUNING)."

PREPARATION:

- 1. INSTALL TEMPORARY FENCING AROUND TREE PROTECTION ZONES TO PROTECT REMAINING TREES AND VEGETATION FROM CONSTRUCTION DAMAGE. KEEP TEMPORARY FENCING IN PLACE FOR THE ENTIRE DURATION OF CONSTRUCTION. MAINTAIN TEMPORARY FENCE AND REMOVE WHEN CONSTRUCTION IS COMPLETE.
2. PROTECT TREE ROOT SYSTEMS FROM DAMAGE CAUSED BY RUNOFF OR SPILLAGE OF NOXIOUS MATERIALS WHILE MIXING, PLACING, OR STORING CONSTRUCTION MATERIALS. PROTECT ROOT SYSTEMS FROM PONDING, ERODING, OR EXCESSIVE WETTING CAUSED BY DEWATERING OPERATIONS.
3. DO NOT STORE CONSTRUCTION MATERIALS, DEBRIS, OR EXCAVATED MATERIAL INSIDE ROOT PROTECTION ZONES. DO NOT PERMIT VEHICLES OR FOOT TRAFFIC WITHIN ROOT PROTECTION ZONES WITHOUT THE USE OF COMPACT GROUND PROTECTION MATTING; PREVENT SOIL COMPACTION OVER ROOT SYSTEMS WITHIN TREE PROTECTION ZONES.

EXCAVATION

- 1. INSTALL SHORING OR OTHER PROTECTIVE SUPPORT SYSTEMS TO MINIMIZE SLOPING OR BENCHING OF EXCAVATIONS.
2. DO NOT EXCAVATE WITHIN TREE PROTECTION ZONES, UNLESS OTHERWISE INDICATED
3. CUT ROOTS WITH SHARP, CLEAN PRUNING INSTRUMENTS; DO NOT PULL, TEAR, BREAK OR CHOP.

TREE PRUNING

- 1. PRUNE TREES TO REMAIN THAT ARE AFFECTED BY TEMPORARY AND PERMANENT CONSTRUCTION AS RECOMMENDED BY ARBORIST.
2. PROVIDE SUBSEQUENT MAINTENANCE DURING CONTRACT PERIOD AS RECOMMENDED BY ARBORIST.
3. PRUNING STANDARDS: PRUNE TREES ACCORDING TO ANSI A300 (PART 1).
4. CUT BRANCHES WITH SHARP, CLEAN PRUNING INSTRUMENTS; DO NOT BREAK OR CHOP.
5. CHIP REMOVED TREE BRANCHES AND DISPOSE OF OFF-SITE.

TREE REPAIR AND REPLACEMENT

- 1. PROMPTLY REPAIR TREES DAMAGED BY CONSTRUCTION OPERATIONS WITHIN 24 HOURS. TREAT DAMAGED TRUNKS, LIMBS, AND ROOTS ACCORDING TO ARBORIST'S WRITTEN INSTRUCTIONS.
2. REMOVE AND REPLACE TREES INDICATED TO REMAIN THAT DIE OR ARE DAMAGED DURING CONSTRUCTION OPERATIONS TO SUCH AN EXTENT THAT ARBORIST DETERMINES THEY ARE INCAPABLE OF RECOVERING TO NORMAL GROWTH PATTERNS.
a. PROVIDE NEW TREES ON AN INCH-PER-CALIPER-INCH BASIS TO THOSE BEING REPLACED.
3. AERATE SURFACE SOIL, COMPACTED DURING CONSTRUCTION, 10 FEET BEYOND DRIP LINE AND NO CLOSER THAN 36 INCHES TO TREE TRUNK. DRILL 2-INCH-DIAMETER HOLES A MINIMUM OF 12 INCHES DEEP AT 24 INCHES O.C. BACKFILL HOLES WITH AN EQUAL MIX OF AUGERED SOIL AND SAND.

SEQUENCE OF CONSTRUCTION NOTES:

PRE-CONSTRUCTION

- 2. AN ON-SITE PRE-CONSTRUCTION MEETING IS REQUIRED AFTER THE LIMITS OF DISTURBANCE HAVE BEEN STAKED AND FLAGGED, BUT BEFORE ANY CLEARING OR GRADING BEGINS. THE PROPERTY OWNER SHOULD CONTACT THE MONTGOMERY COUNTY PLANNING DEPARTMENT INSPECTION STAFF BEFORE CONSTRUCTION TO VERIFY THE LIMITS OF DISTURBANCE AND DISCUSS TREE PROTECTION AND TREE CARE MEASURES. THE DEVELOPER'S REPRESENTATIVE, CONSTRUCTION SUPERINTENDENT, ISA CERTIFIED ARBORIST OR MARYLAND-LICENSED TREE EXPERT THAT WILL IMPLEMENT THE TREE PROTECTION MEASURES, FOREST CONSERVATION INSPECTOR, AND DEPARTMENT OF PERMITTING SERVICES (DPS) SEDIMENT CONTROL INSPECTOR SHOULD ATTEND THIS PRE-CONSTRUCTION MEETING.
3. NO CLEARING OR GRADING SHALL BEGIN BEFORE STRESS-REDUCTION MEASURES HAVE BEEN IMPLEMENTED. APPROPRIATE MEASURES MAY INCLUDE, BUT ARE NOT LIMITED TO:
a. ROOT PRUNING
b. CROWN PRUNING
c. WATERING
d. FERTILIZING
e. VERTICAL MULCHING
f. ROOT AERATION MATTING

MEASURES NOT SPECIFIED ON THE TREE SAVE PLAN MAY BE REQUIRED AS DETERMINED BY THE FOREST CONSERVATION INSPECTOR IN COORDINATION WITH THE ARBORIST.

- 4. A MARYLAND-LICENSED TREE EXPERT OR AN INTERNATIONAL SOCIETY OF ARBORICULTURE CERTIFIED ARBORIST MUST PERFORM ALL STRESS REDUCTION MEASURES. DOCUMENTATION OF STRESS REDUCTION MEASURES MUST BE EITHER OBSERVED BY THE FOREST CONSERVATION INSPECTOR OR SENT TO THE INSPECTOR AT 8787 GEORGIA AVENUE, SILVER SPRING, MD 20910.

THE FOREST CONSERVATION INSPECTOR WILL DETERMINE THE EXACT METHOD TO CONVEY THE STRESS REDUCTIONS MEASURES DURING THE PRE-CONSTRUCTION MEETING.

- 5. TEMPORARY TREE PROTECTION DEVICES SHALL BE INSTALLED PER THE FOREST CONSERVATION PLAN/TREE SAVE PLAN AND PRIOR TO ANY CONSTRUCTION ACTIVITIES. TREE PROTECTION FENCING LOCATIONS SHOULD BE STAKED PRIOR TO THE PRE-CONSTRUCTION MEETING. THE FOREST CONSERVATION INSPECTOR, IN COORDINATION WITH THE DPS SEDIMENT CONTROL INSPECTOR, MAY MAKE FIELD ADJUSTMENTS TO INCREASE THE SURVIVABILITY OF TREES AND FOREST SHOWN AS SAVED ON THE APPROVED PLAN. TEMPORARY TREE PROTECT DEVICES MAY INCLUDE:
a. CHAIN LINK FENCE (FOUR FEET HIGH)
b. SUPER SILT FENCE WITH WIRE STRUNG BETWEEN SUPPORT POLES (MINIMUM 4 FEET HIGH) WITH HIGH VISIBILITY FLAGGING.
c. 14 GAUGE 2 INCH X 4 INCH WELDED WIRE FENCING SUPPORTED BY STEEL T-BAR POSTS (MINIMUM 4 FEET HIGH) WITH HIGH VISIBILITY FLAGGING.

- 6. TEMPORARY PROTECTION DEVICES SHALL BE MAINTAINED AND INSTALLED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION PROJECT AND MUST NOT BE ALTERED WITHOUT PRIOR APPROVAL FROM THE FOREST CONSERVATION INSPECTOR. NO EQUIPMENT, TRUCKS, MATERIALS, OR DEBRIS MAY BE STORED WITHIN THE TREE PROTECTION FENCE AREAS DURING THE ENTIRE CONSTRUCTION PROJECT. NO VEHICLE OR EQUIPMENT ACCESS TO THE FENCED AREA WILL BE PERMITTED. TREE PROTECTION SHALL NOT BE REMOVED WITHOUT PRIOR APPROVAL OF FOREST CONSERVATION INSPECTOR.

- 7. FOREST RETENTION AREA SIGNS SHALL BE INSTALLED AS REQUIRED BY THE FOREST CONSERVATION INSPECTOR, OR AS SHOWN ON THE APPROVED PLAN.

- 8. LONG-TERM PROTECTION DEVICES WILL BE INSTALLED PER THE FOREST CONSERVATION PLAN/TREE SAVE PLAN AND ATTACHED DETAILS. INSTALLATION WILL OCCUR AT THE APPROPRIATE TIME DURING THE CONSTRUCTION PROJECT. REFER TO THE PLAN DRAWING FOR LONG-TERM PROTECTION MEASURES TO BE INSTALLED.

DURING CONSTRUCTION

- 9. PERIODIC INSPECTIONS BY THE FOREST CONSERVATION INSPECTOR WILL OCCUR DURING THE CONSTRUCTION PROJECT. CORRECTIONS AND REPAIRS TO ALL TREE PROTECTION DEVICES, AS DETERMINED BY THE FOREST CONSERVATION INSPECTOR, MUST BE MADE WITHIN THE TIMEFRAME ESTABLISHED BY THE INSPECTOR.

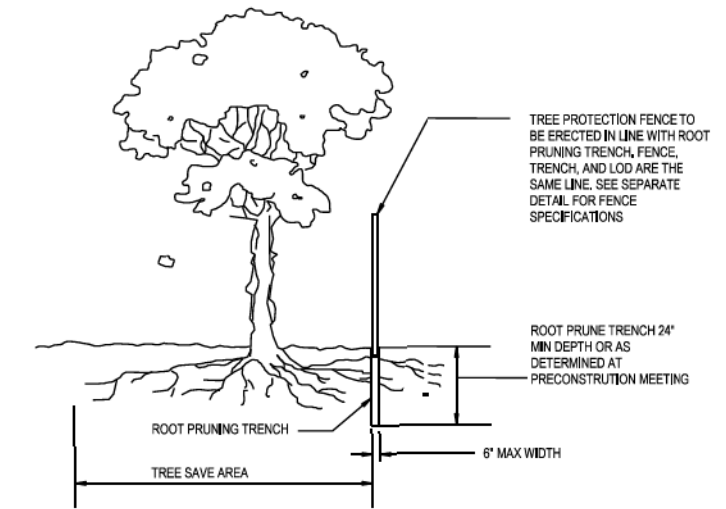
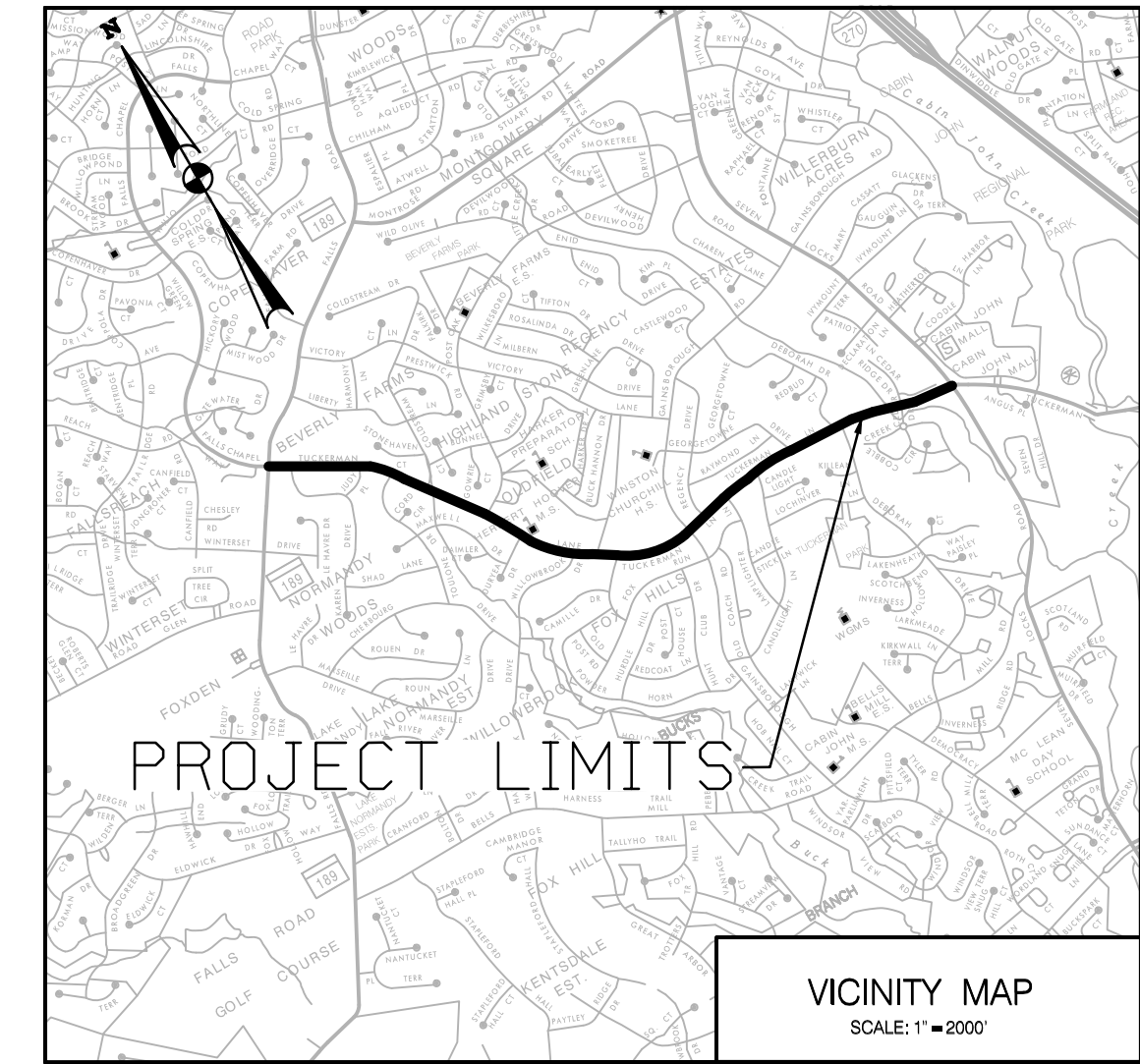
POST-CONSTRUCTION

- 10. AFTER CONSTRUCTION IS COMPLETED, AN INSPECTION SHALL BE REQUESTED. CORRECTIVE MEASURES MAY INCLUDE:
a. REMOVAL & REPLACEMENT OF DEAD & DYING TREES
b. PRUNING OF DEAD OR DECLINING LIMBS
c. SOIL AERATION
d. FERTILIZATION
e. WATERING
f. WOUND REPAIR
g. CLEAN UP OF RETENTION AREAS
11. AFTER INSPECTION AND COMPLETION OF CORRECTIVE MEASURES HAVE BEEN UNDERTAKEN, ALL TEMPORARY PROTECTION DEVICES SHALL BE REMOVED FROM THE SITE.

REMOVAL OF TREE PROTECTION DEVICES THAT ALSO OPERATE FOR EROSION AND SEDIMENT CONTROL MUST BE COORDINATED WITH BOTH THE DEPARTMENT OF PERMITTING SERVICES AND THE FOREST CONSERVATION INSPECTOR. NO ADDITIONAL GRADING, SODDING, OR BURIAL MAY TAKE PLACE AFTER THE TREE PROTECTION FENCING IS REMOVED.

Table with columns: TREE #, TSP SHEET #, SCIENTIFIC NAME, COMMON NAME, DBH (INCHES), CONDITION, PRESERVE, REMOVE, PROTECTION MEASURES. Lists various trees and their details across 25 sheets.

PROTECTION MEASURES: RP = ROOT PRUNE TPF = TREE PROTECTION FENCE



- NOTES:
1. RETENTION AREAS WILL BE SET AS PART OF THE REVIEW PROCESS AND PRECONSTRUCTION MEETING.
2. BOUNDARIES OF RETENTION AREAS MUST BE STAKED AT THE PRECONSTRUCTION MEETING AND FLAGGED PRIOR TO TRENDING.
3. EXACT LOCATION OF TRENCH SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FOREST CONSERVATION (FCI) INSPECTOR.
4. TRENCH SHOULD BE IMMEDIATELY BACKFILLED WITH EXCAVATED SOIL OR OTHER ORGANIC SOIL AS SPECIFIED PER PLAN OR BY THE FC INSPECTOR.
5. ROOTS SHALL BE CLEANLY CUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE EQUIPMENT.
6. ALL PRUNING MUST BE EXECUTED WITH LOD SHOWN ON PLANS OR AS INDICATED IN WRITING BY THE FC INSPECTOR.



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35% SUBMITTAL

TSP-17

Form containing project information: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND. TREE SAVE PLAN TUCKERMAN LANE SIDEWALK / BIKEWAY PROJECT - SEGMENT 1 TSP-MR2023007. Includes approver signatures and dates.

