

SURVEY CONTROL DATA

SEE SURVEY DATA SHEETS X-XX

DESIGN DATA- SH 4

Table with 2 columns: Parameter and Value. Includes ADT 2021 (8,740), ADT 2050 (15,900), K (DHV/ADT) (10.4%), D (56.9%), T(% of DHV) (25%), T(% of ADT) (33%), T3(% of ADT) (5%), V (70 MPH), (20)FLEX ESAL'S (X M).

DESIGN DATA- FOX LANE

Table with 2 columns: Parameter and Value. Includes ADT 2021 (2,600), ADT 2050 (4,710), K (DHV/ADT) (12.7%), D (55.0%), V (45 MPH), (20)FLEX ESAL'S (X M).

DESIGN DATA RAMP A

Table with 2 columns: Parameter and Value. Includes ADT 2021 (N/A), ADT 2050 (900), K (DHV/ADT) (13.8%), D (100%), V (45 MPH), (20)FLEX ESAL'S (X M).

DESIGN DATA RAMP B

Table with 2 columns: Parameter and Value. Includes ADT 2021 (N/A), ADT 2050 (900), K (DHV/ADT) (13.3%), D (100%), V (45 MPH), (20)FLEX ESAL'S (X M).

DESIGN DATA RAMP C

Table with 2 columns: Parameter and Value. Includes ADT 2021 (N/A), ADT 2050 (2,490), K (DHV/ADT) (12.4%), D (100%), V (45 MPH), (20)FLEX ESAL'S (X M).

DESIGN DATA RAMP D

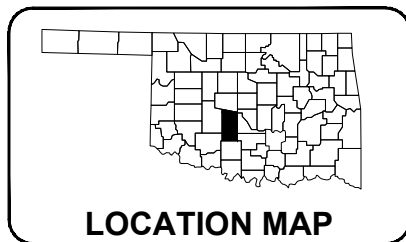
Table with 2 columns: Parameter and Value. Includes ADT 2021 (N/A), ADT 2050 (2,490), K (DHV/ADT) (13.3%), D (100%), V (45 MPH), (20)FLEX ESAL'S (X M).

SCALES

Table with 2 columns: Scale Type and Ratio. Includes PLAN (1:50), PROFILE HOR. (1:50), VER. (1:10), LAYOUT MAP (1"=5280').

CONVENTIONAL SYMBOLS

- List of symbols for proposed roads, section lines, fences, existing and proposed grades, communication lines, power lines, gas lines, sanitary sewer lines, storm sewer lines, water lines, buildings, drainage structures, right-of-way lines, flowlines, toe of slope, city limits, landscape, and railroad.



STATE OF OKLAHOMA DEPARTMENT OF TRANSPORTATION

CONCEPTUAL PLANS FOR PRELIMINARY ENGINEERING STUDY

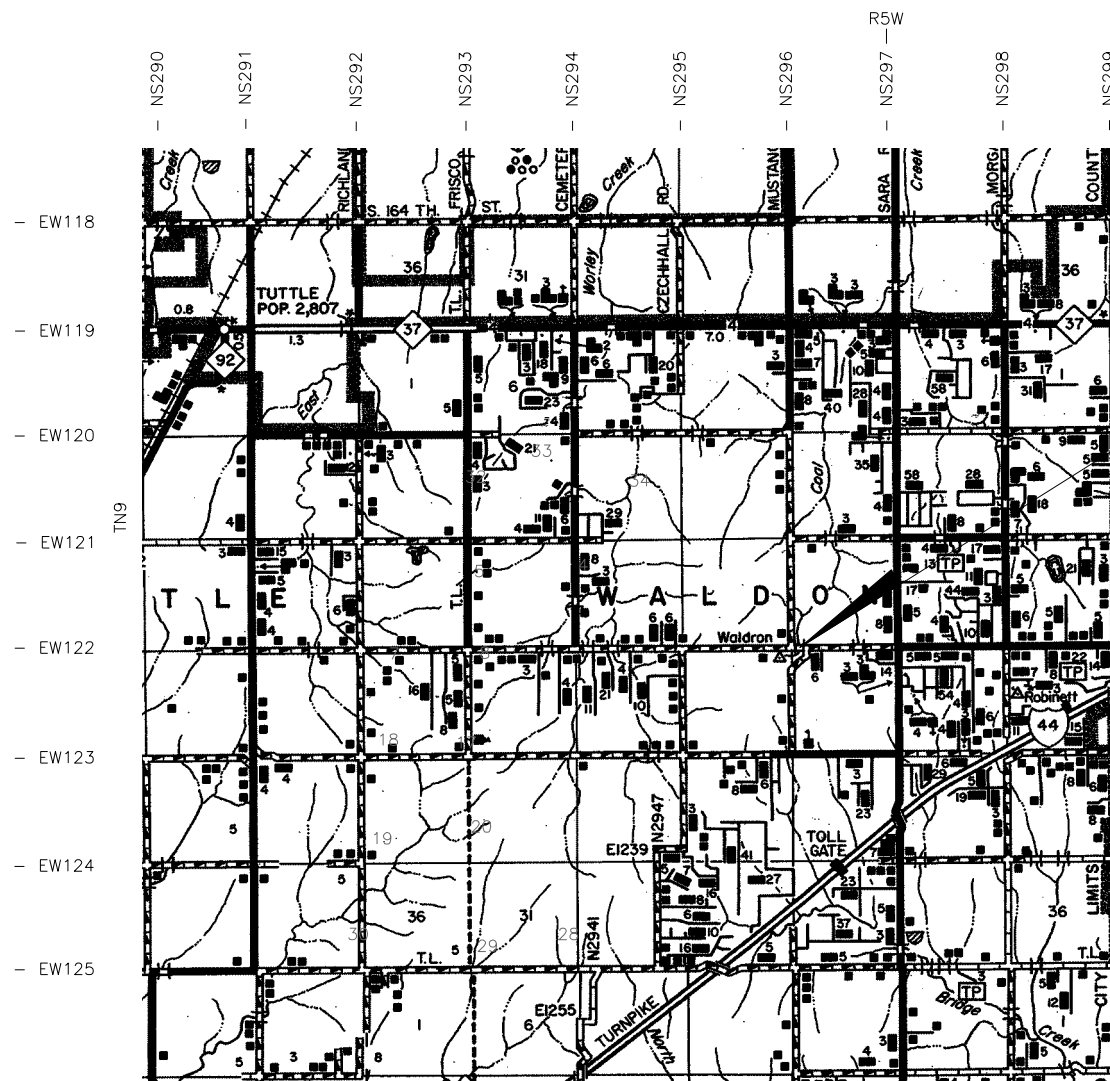
SH-4 AND FOX LANE INTERSECTION

GRADY

STATE JOB NO. 34262(04)

INDEX OF SHEETS

Table listing sheet numbers and titles. Includes 001 (TITLE SHEET), 002-006 (TYPICAL SECTIONS), B001-B003 (BRIDGE A GENERAL PLANS), R001-R004 (AT-GRADE PLAN AND PROFILES), R005-R008 (AT-GRADE PLAN AND PROFILES), R009-R013 (2A ROUNDABOUT PLAN AND PROFILES), R014-R016 (2B ROUNDABOUT PLAN AND PROFILES), R017-R033 (3A INTERCHANGE PLAN AND PROFILES), R034-R050 (3A2 INTERCHANGE PLAN AND PROFILES), R051-R064 (3B INTERCHANGE PLAN AND PROFILES), R065-R078 (3B2 INTERCHANGE PLAN AND PROFILES), R079-R093 (3C INTERCHANGE PLAN AND PROFILES).

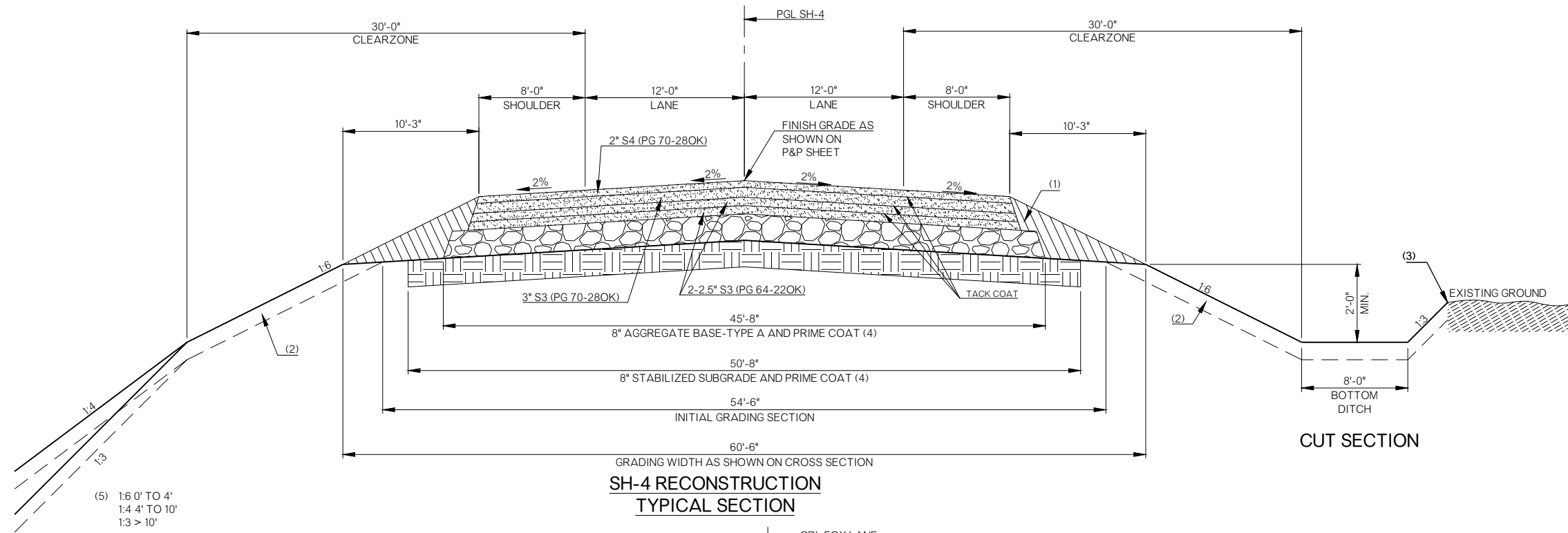


PROJECT LOCATION

TO OKLAHOMA CITY

TO CHICKASHA

Prepared by: CEC CORPORATION, CA32 6/30/22, OKLAHOMA CITY, OKLAHOMA. Includes CEC logo and Taylor Barnes information.



NOTES

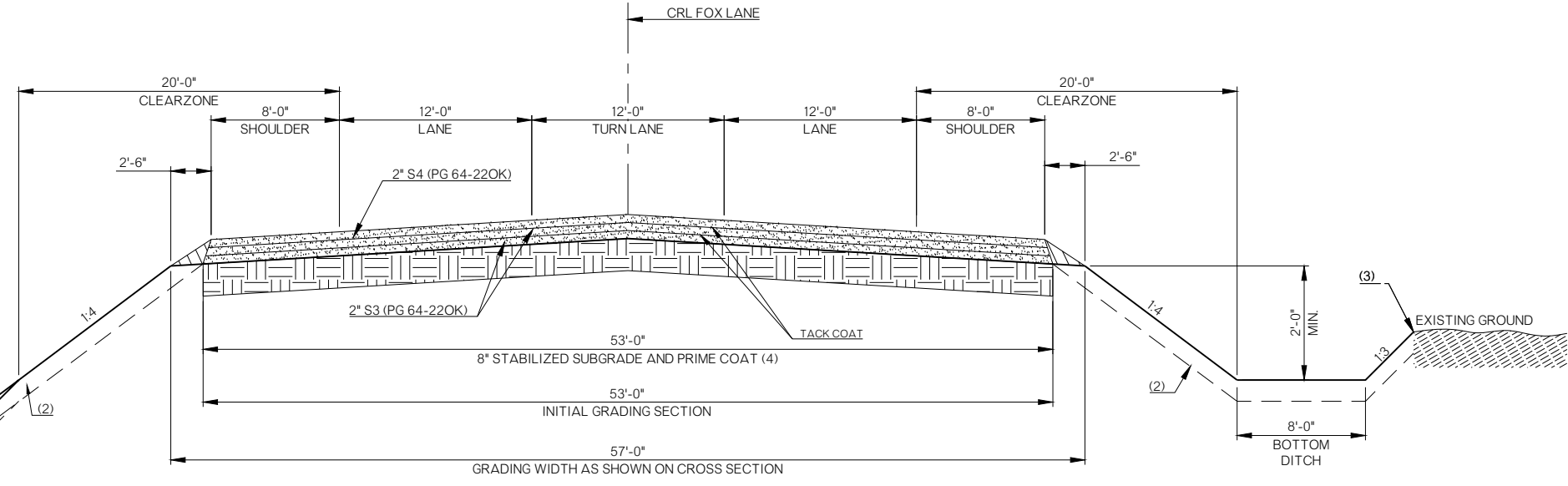
- (1) BACKFILL NOTE: BACKFILL SHOULDERS WITH UNCLASSIFIED BORROW AND COMPACT AS PART OF FINISHING OPERATIONS.
- (2) TOPSOIL NOTE: THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE IT BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATION. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTIONS AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH OPERATION SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGED TOPSOIL, LUMP SUM.

THE GRADING LINE AS SHOWN ON THE CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL QUANTITY IS INCLUDED IN THE CALCULATIONS.
- (3) SEE ROUNDING DETAIL.
- (4) PRIME COAT TO BE APPLIED TO THE TOP OF THE STABILIZED SUBGRADE.
- (5) VERTICAL DISTANCE IS MEASURED FROM TOP OF FINISHED SHOULDER SURFACE.

FILL SECTION

CUT SECTION

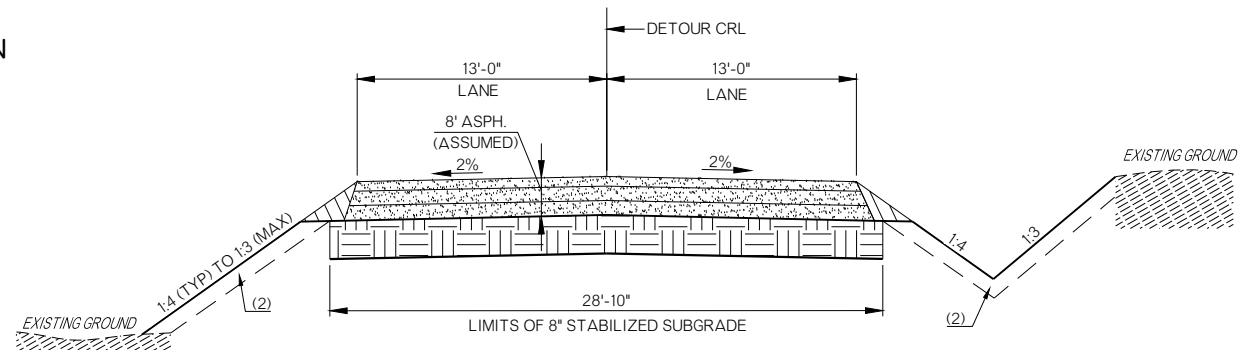
SH-4 RECONSTRUCTION
TYPICAL SECTION



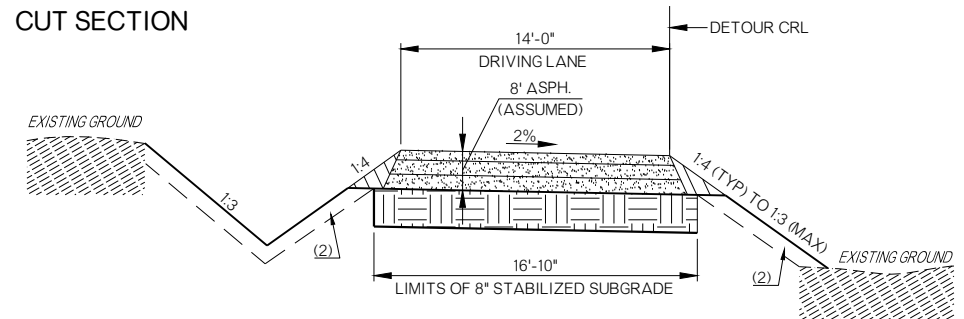
FILL SECTION

CUT SECTION

FOX LANE TYPICAL SECTION



FOX LANE TEMPORARY DETOUR
TYPICAL SECTION



TEMPORARY RAMP DETOUR
TYPICAL SECTION

PAVEMENT DESIGN IS PRELIMINARY. FOR INFORMATION AND COST ESTIMATING PURPOSES ONLY.

SH-4 GRADY COUNTY

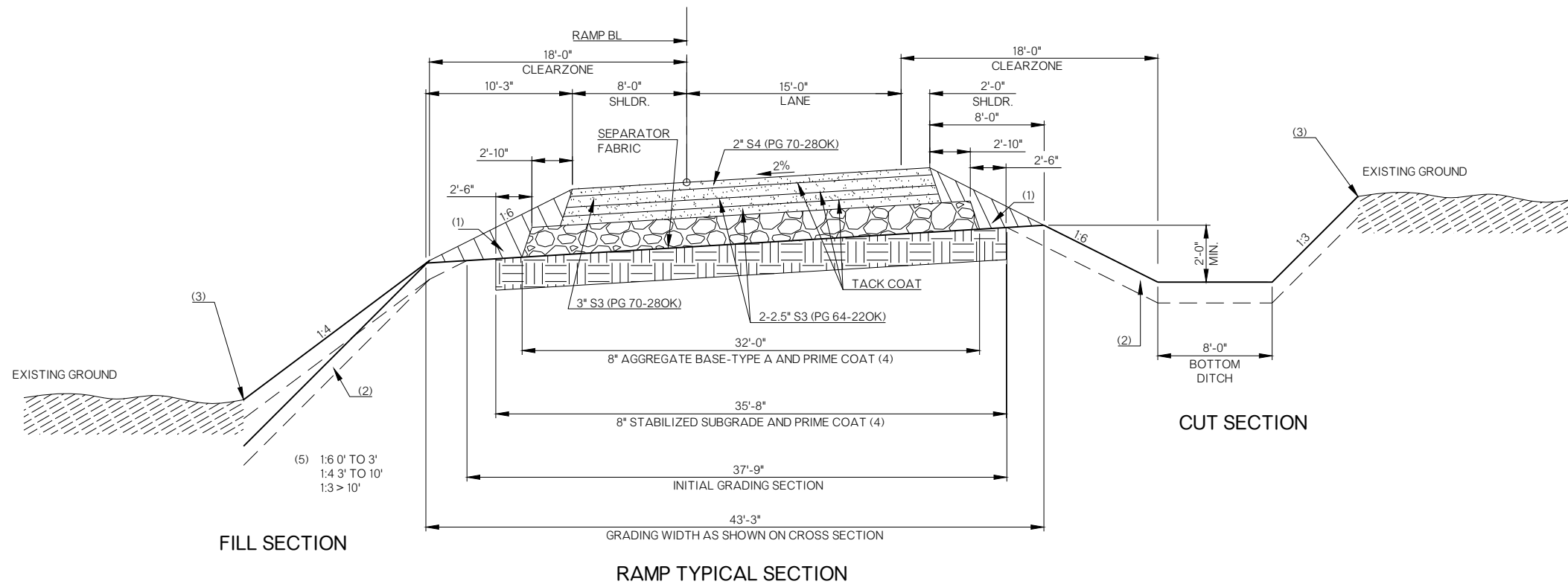
TYPICAL SECTIONS
SHEET 1 OF 4

JOB PIECE NO. 3426204 SHEET NO. 002

NOTES

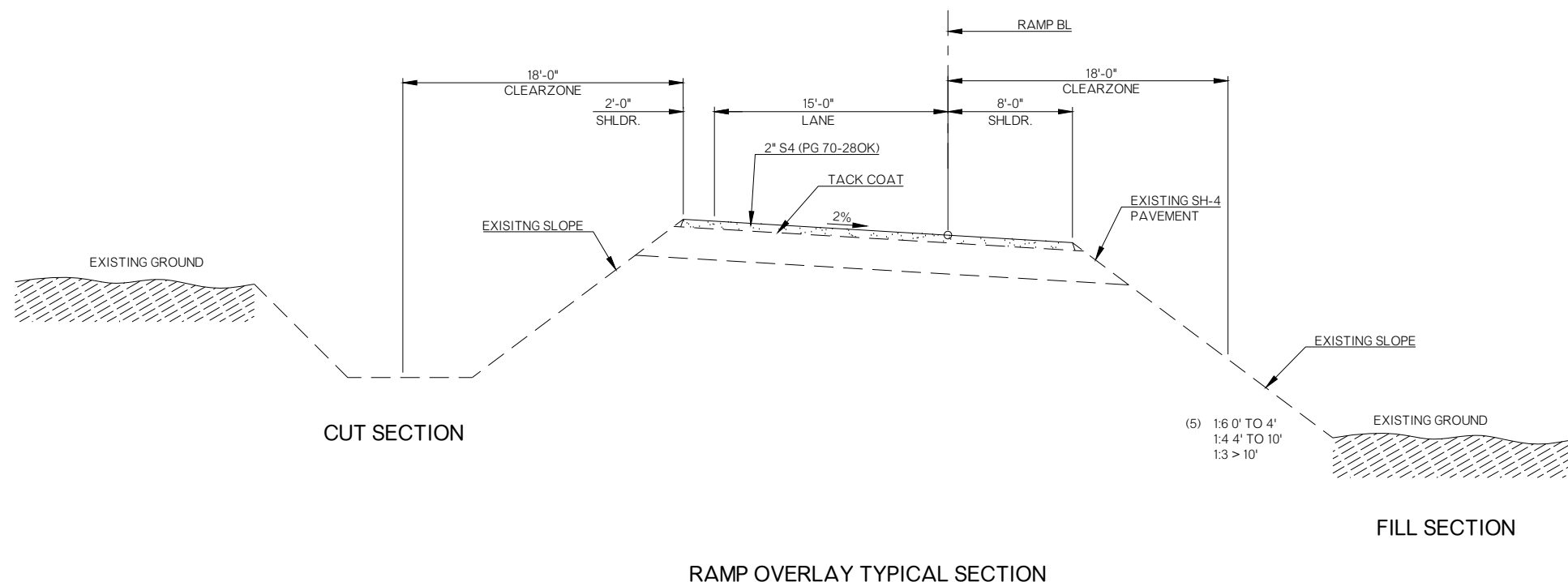
- (1) BACKFILL NOTE:
BACKFILL SHOULDERS WITH T.B.S.C. AND COMPACT AS PART OF FINISHING OPERATIONS.
- (2) TOPSOIL NOTE:
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- (3) SEE ROUNDING DETAIL
- (4) PRIME COAT TO BE APPLIED TO THE TOP OF THE AGGREGATE BASE AND STABILIZED SUBGRADE.
- (5) VERTICAL DISTANCE IS MEASURED FROM TOP OF FINISHED SHOULDER SURFACE.



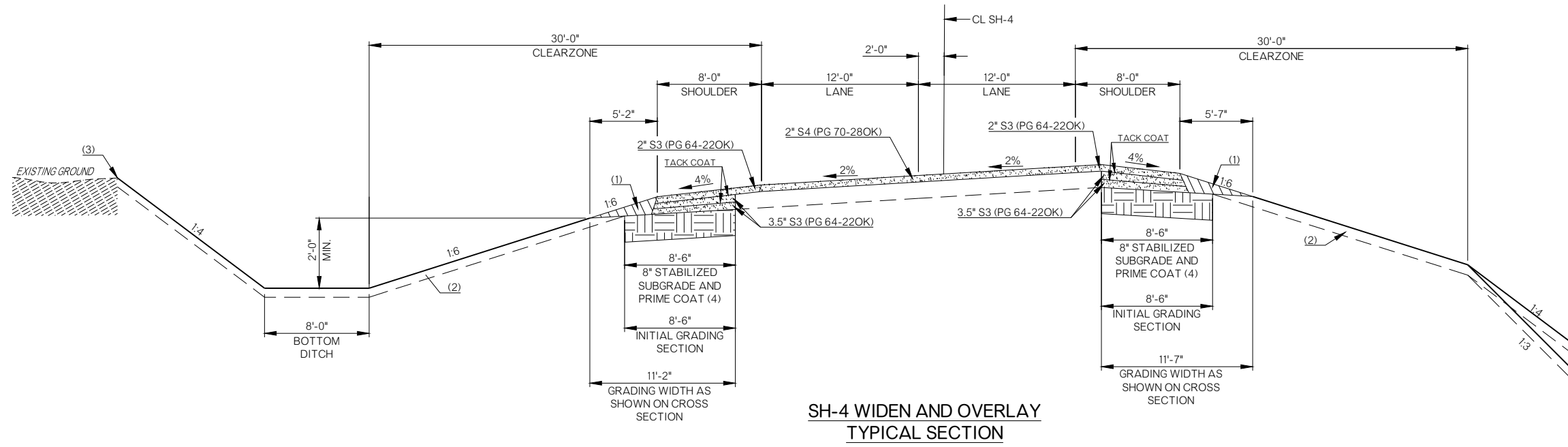
FILL SECTION

CUT SECTION



CUT SECTION

FILL SECTION

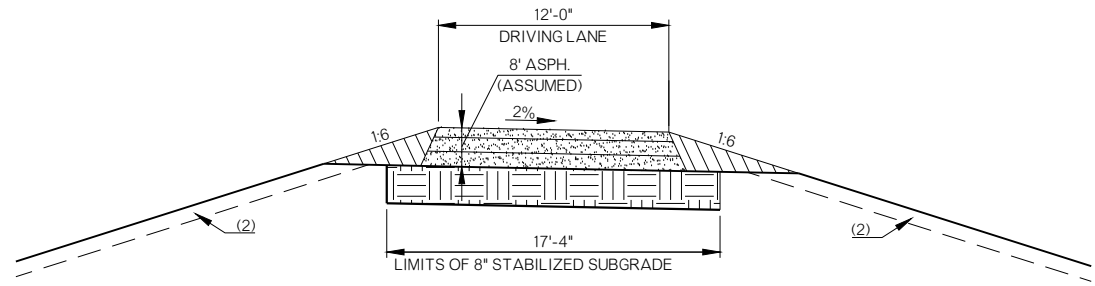


**SH-4 WIDEN AND OVERLAY
TYPICAL SECTION**

NOTES

- (1) BACKFILL NOTE: BACKFILL SHOULDERS WITH UNCLASSIFIED BORROW AND COMPACT AS PART OF FINISHING OPERATIONS.
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THE GRADING LINE AS SHOWN ON THE CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL QUANTITY IS INCLUDED IN THE CALCULATIONS.
- (3) SEE ROUNDING DETAIL.
- (4) PRIME COAT TO BE APPLIED TO THE TOP OF THE STABILIZED SUBGRADE.
- (5) VERTICAL DISTANCE IS MEASURED FROM TOP OF FINISHED SHOULDER SURFACE.



**MAINLINE CROSSOVER
TYPICAL SECTION**

PAVEMENT DESIGN IS PRELIMINARY. FOR INFORMATION AND COST ESTIMATING PURPOSES ONLY.

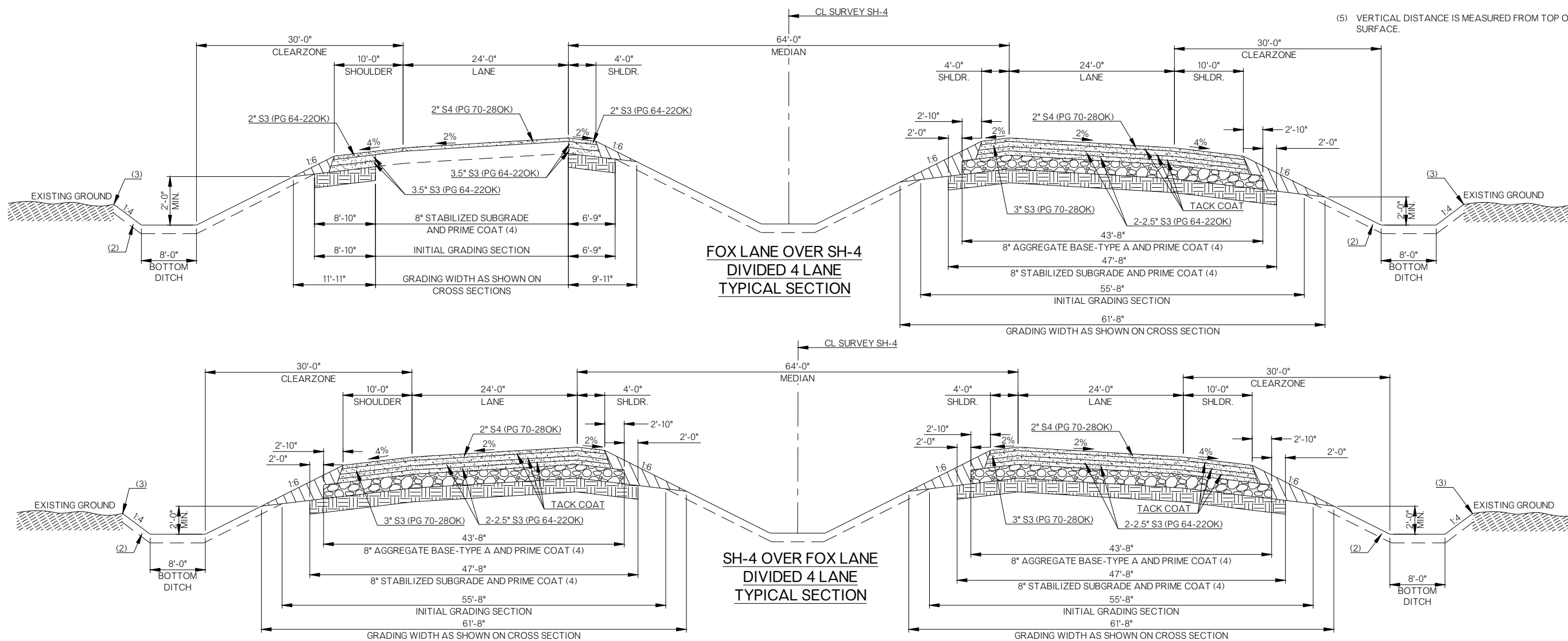
SH-4 GRADY COUNTY
**TYPICAL SECTIONS
SHEET 3 OF 4**
JOB PIECE NO. 3426204 SHEET NO. 004

NOTES

- (1) BACKFILL NOTE: BACKFILL SHOULDERS WITH UNCLASSIFIED BORROW AND COMPACT AS PART OF FINISHING OPERATIONS.
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- (3) SEE ROUNDING DETAIL.
- (4) PRIME COAT TO BE APPLIED TO THE TOP OF THE STABILIZED SUBGRADE.
- (5) VERTICAL DISTANCE IS MEASURED FROM TOP OF FINISHED SHOULDER SURFACE.



FOX LANE OVER SH-4
DIVIDED 4 LANE
TYPICAL SECTION

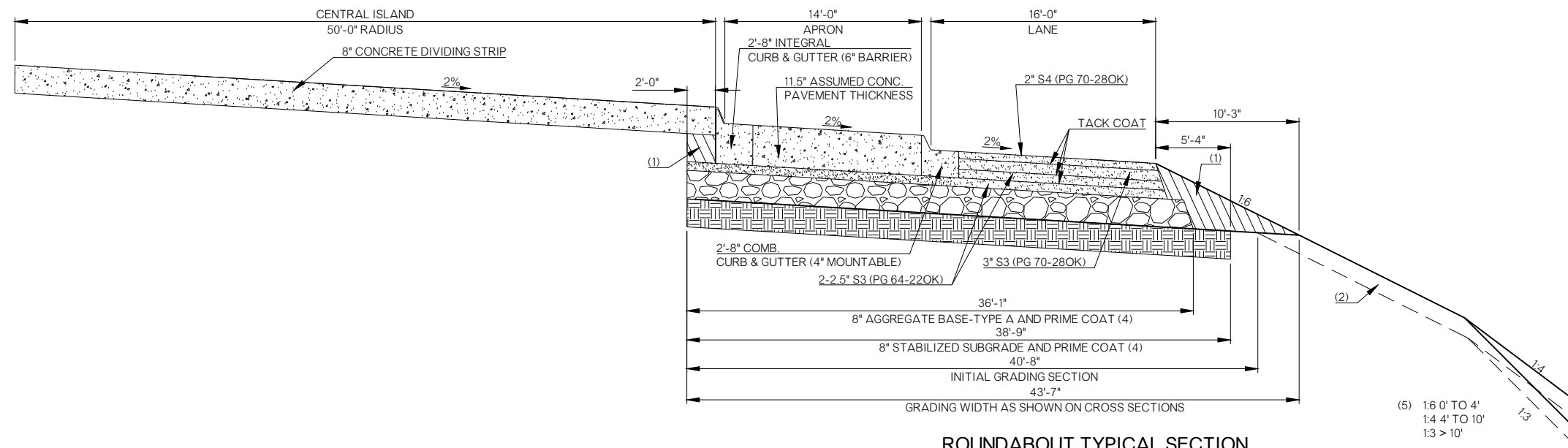
SH-4 OVER FOX LANE
DIVIDED 4 LANE
TYPICAL SECTION

PAVEMENT DESIGN IS PRELIMINARY. FOR INFORMATION AND COST ESTIMATING PURPOSES ONLY.

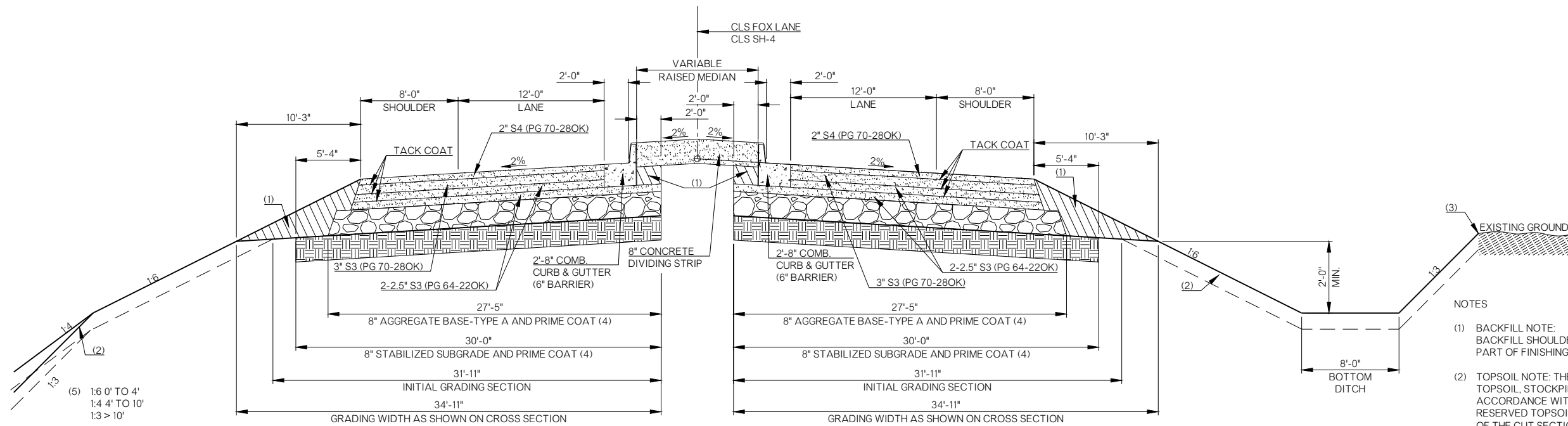
SH-4 GRADY COUNTY

TYPICAL SECTIONS
SHEET 4 OF 4

JOB PIECE NO. 3426204 SHEET NO. 005



ROUNDABOUT TYPICAL SECTION



ROUNDABOUT TYPICAL SECTION

NOTES

- (1) BACKFILL NOTE: BACKFILL SHOULDERS WITH UNCLASSIFIED BORROW AND COMPACT AS PART OF FINISHING OPERATIONS.
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SH-4 GRADY COUNTY

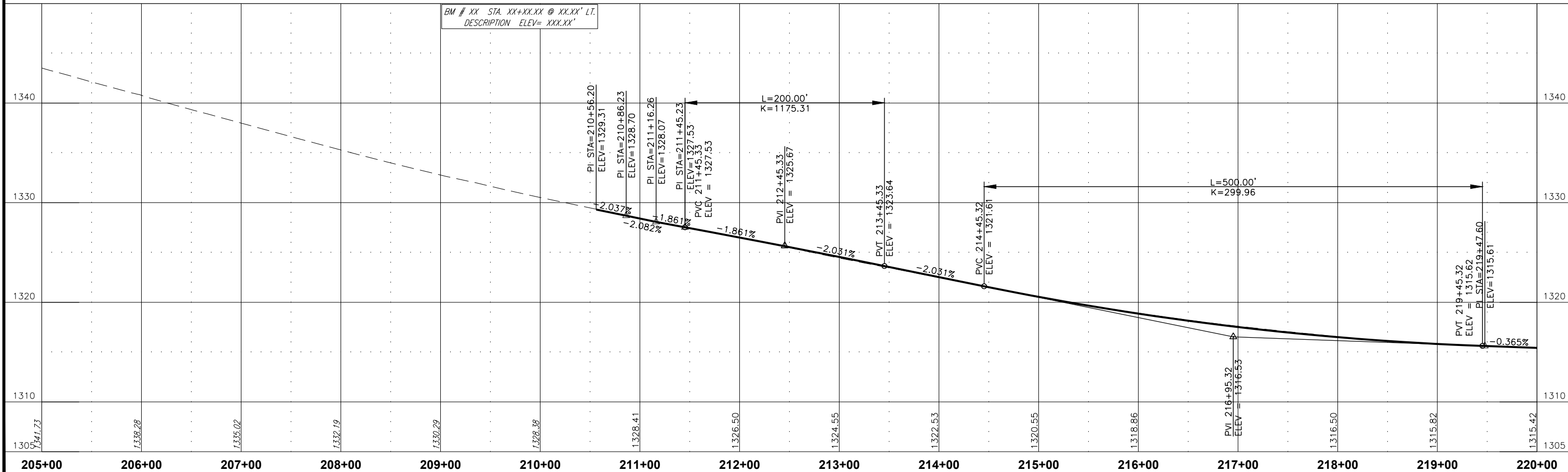
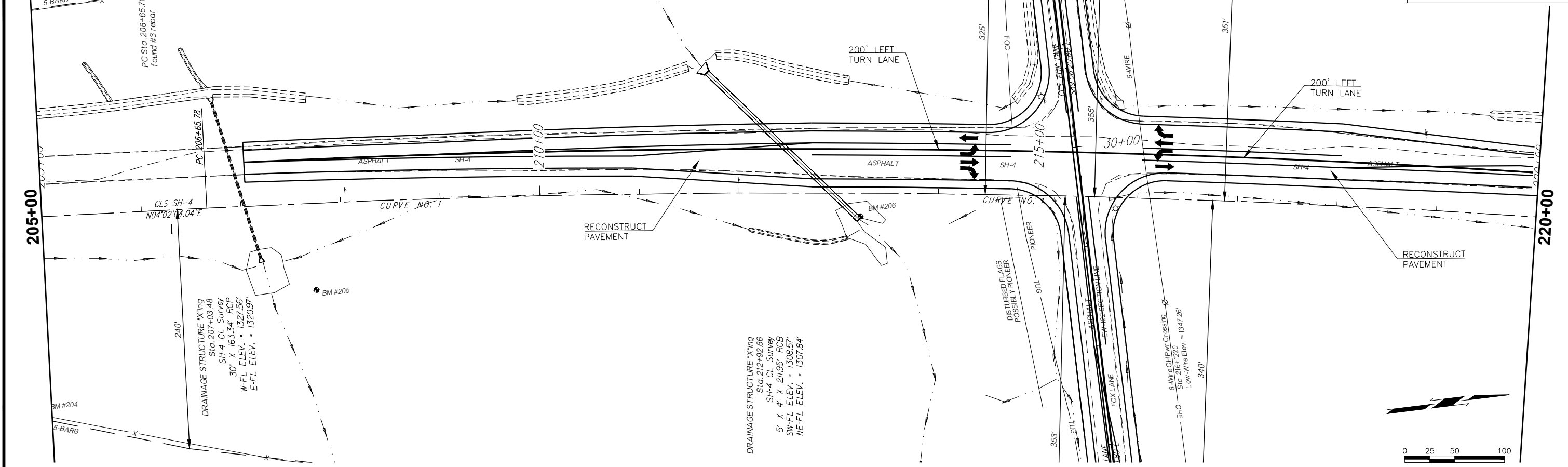
TYPICAL SECTION ROUNDABOUT

JOB PIECE NO. 3426204 SHEET NO. 006

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01/21/2022

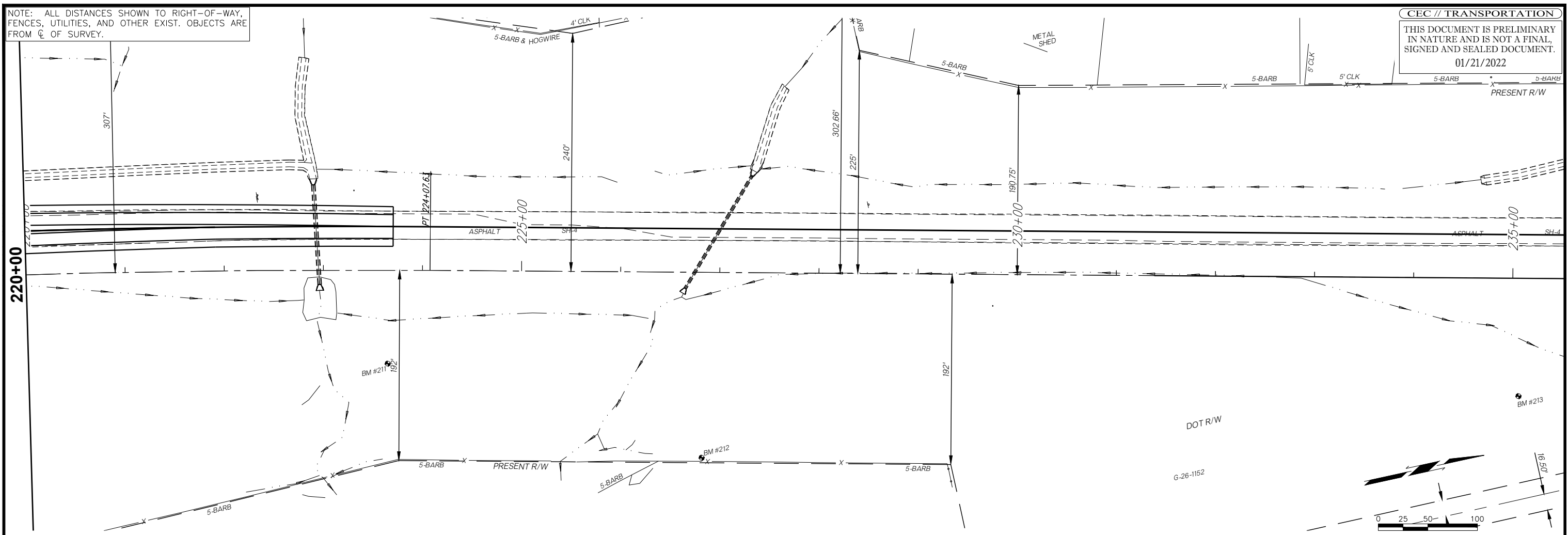


ALT. 1E SIGNALS WITH GEOMETRY IMPROVEMENTS P&P CLS SH-4

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01/21/2022



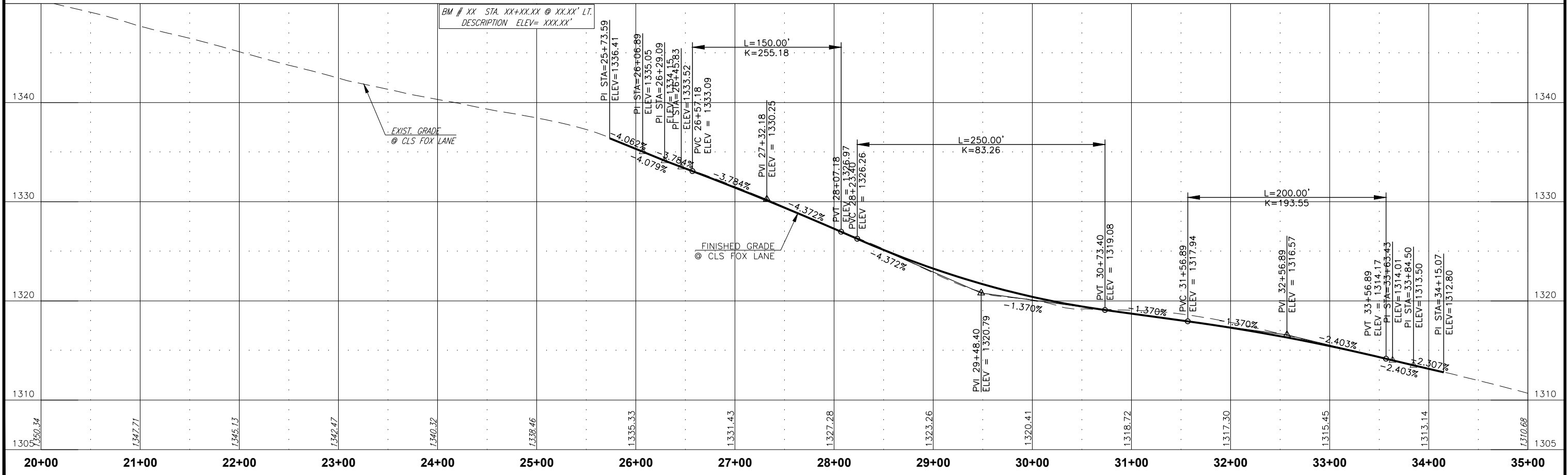
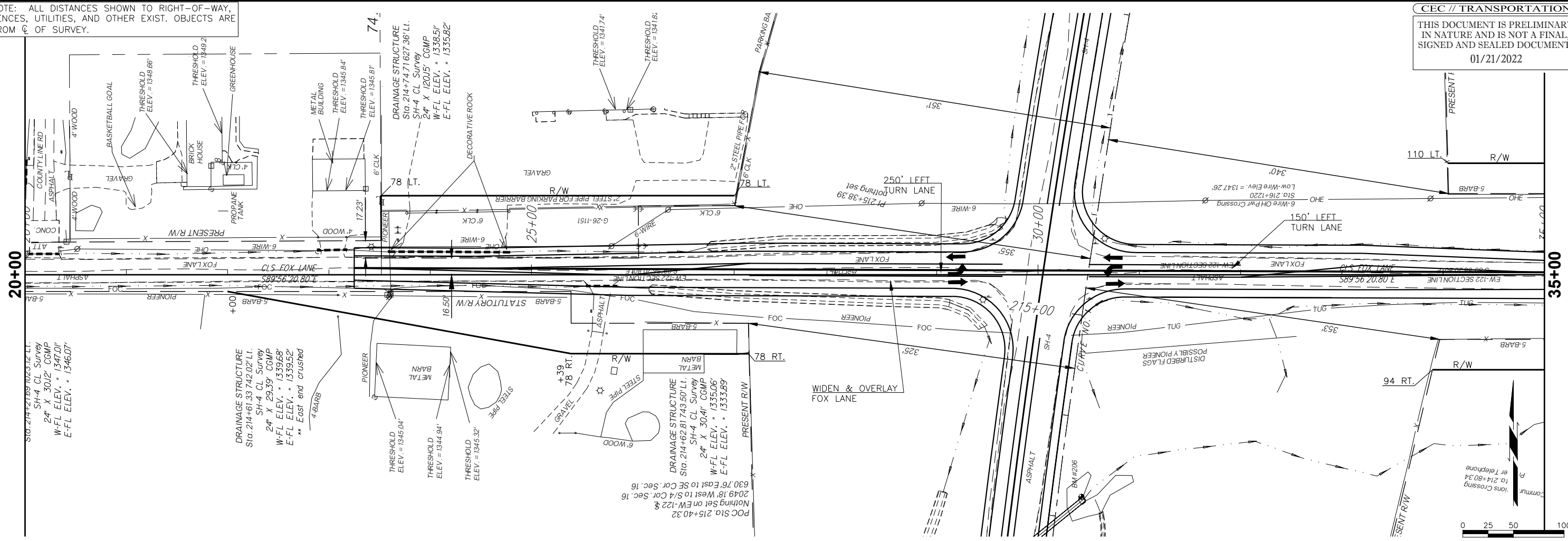
Station	Elevation	Description
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220+00	1315.42	ELEV=1315.35
220+00	1315.35	PI STA=220+47.25
220+00	1315.33	ELEV=1315.33
220+00	1312.45	PI STA=220+77.28
220+00	1312.96	ELEV=1315.35
221+00	1312.45	
222+00	1312.96	
223+00	1313.89	
224+00	1314.56	
225+00	1316.26	
226+00	1316.41	
227+00	1316.69	
228+00	1317.61	
229+00	1319.56	
230+00	1320.81	
231+00	1321.39	
232+00	1321.64	
233+00	1321.99	
234+00	1323.13	
235+00	1324.78	

BM # XX STA. XX+XX.XX @ XX.XX' LT.
DESCRIPTION ELEV= XXX.XX'

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C.C. OF SURVEY.

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01/21/2022

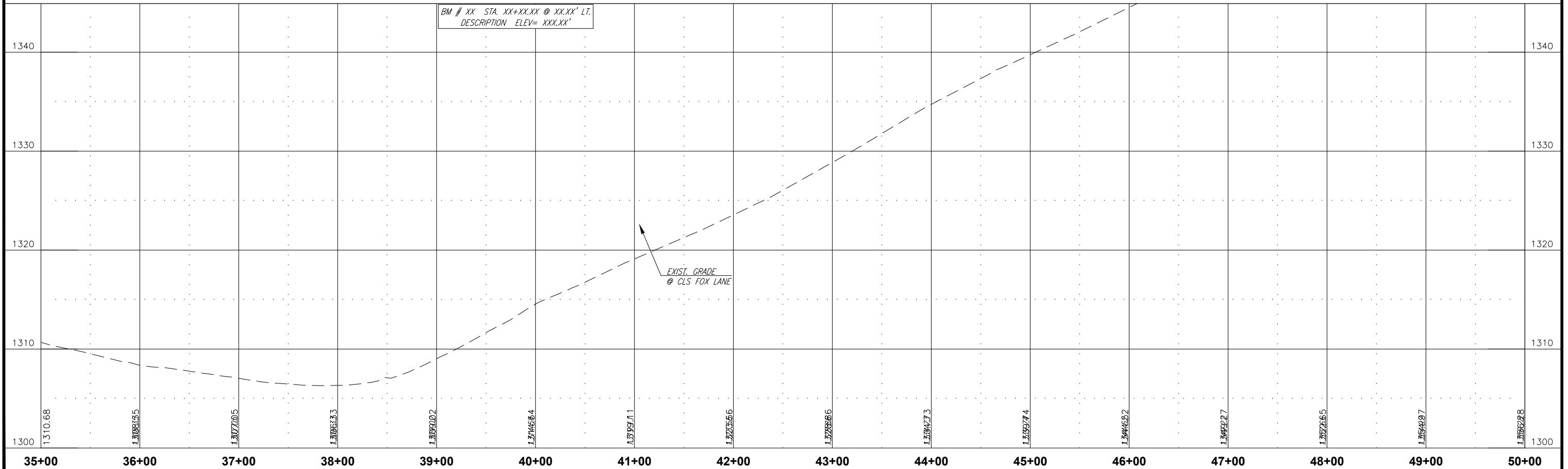
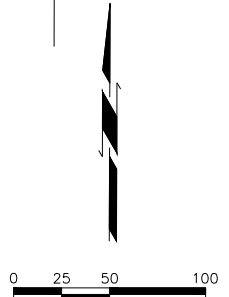
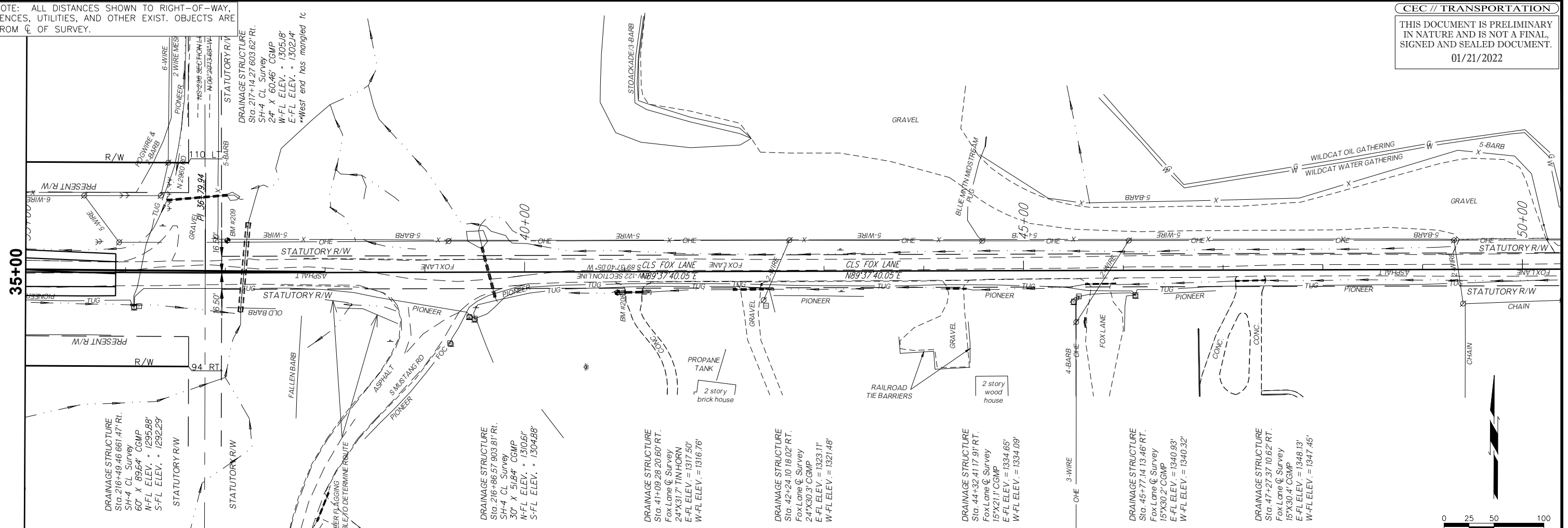


ALT. 1E SIGNALS WITH GEOMETRY IMPROVEMENTS P&P CLS FOX LANE

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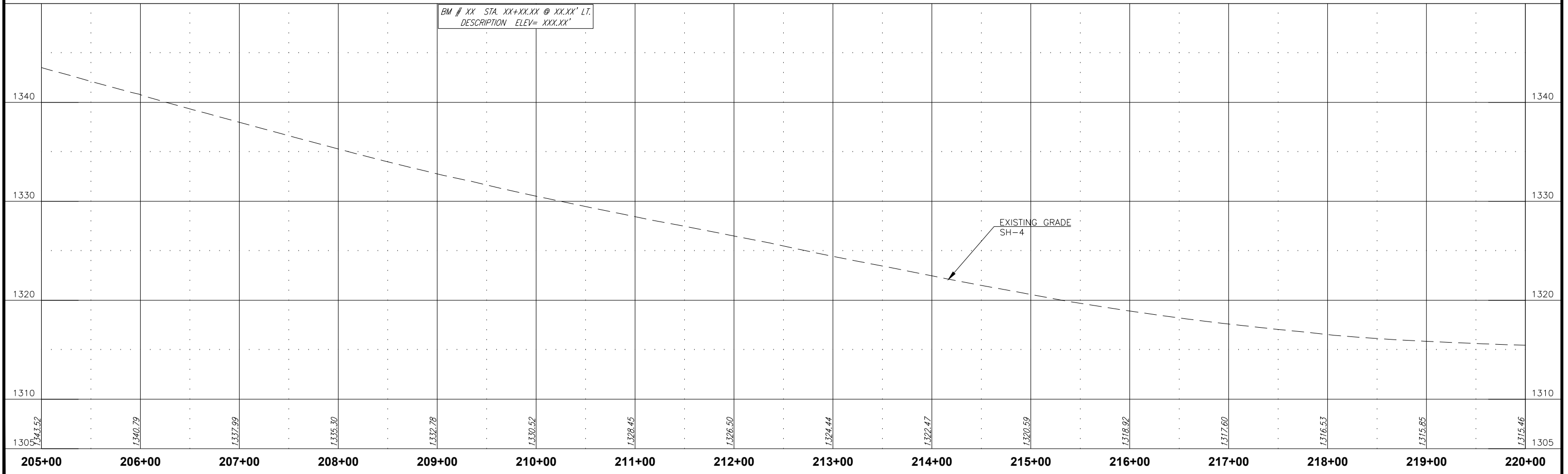
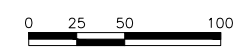
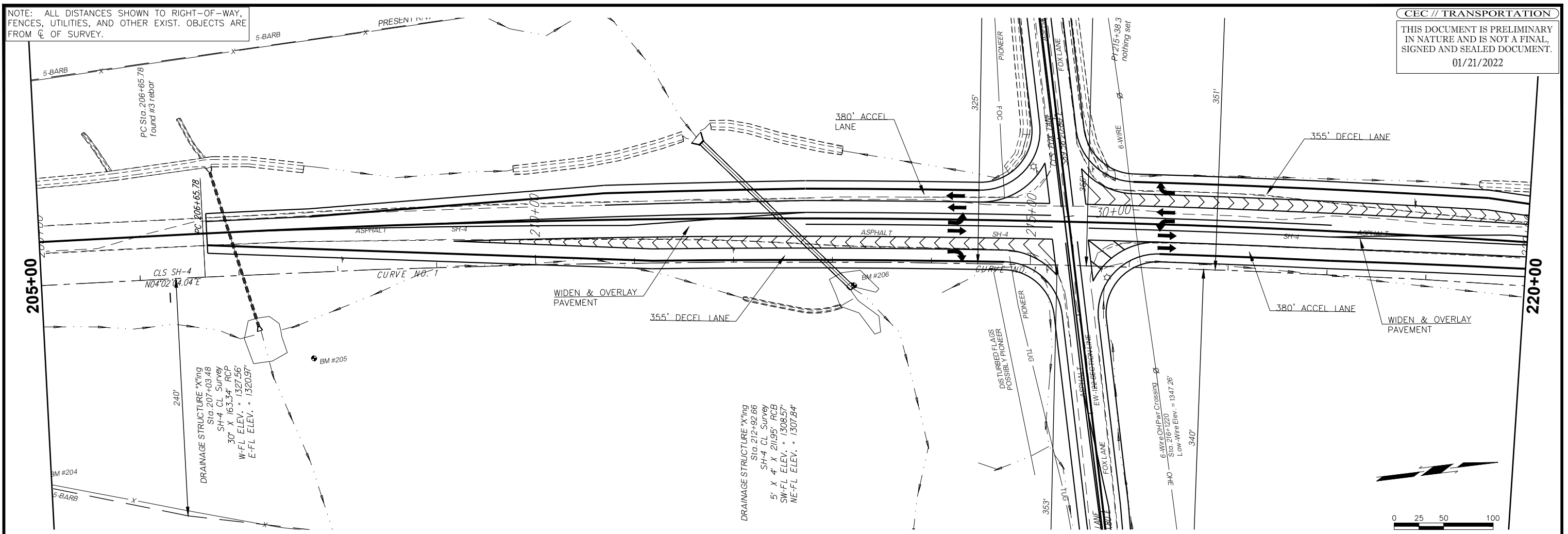
BM # XX STA. XX+XX.XX @ XX.XX' LT.
DESCRIPTION ELEV= XXX.XX'

ALT. 1E SIGNALS WITH GEOMETRY IMPROVEMENTS P&P CLS FOX LANE

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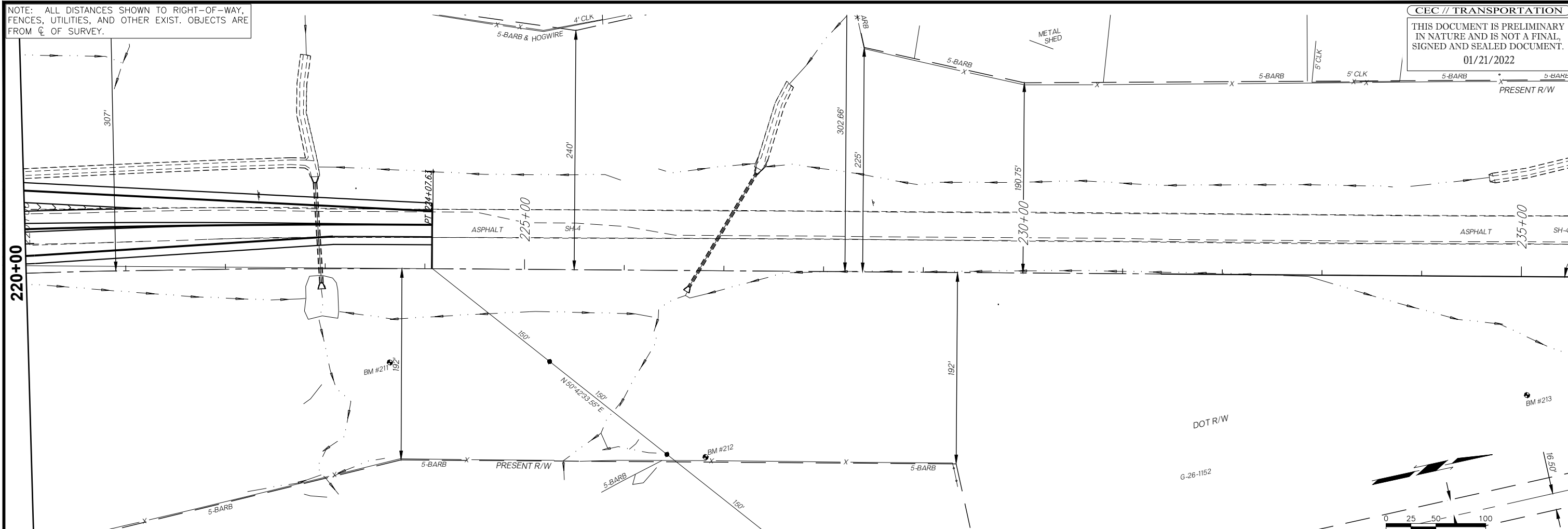
01/21/2022



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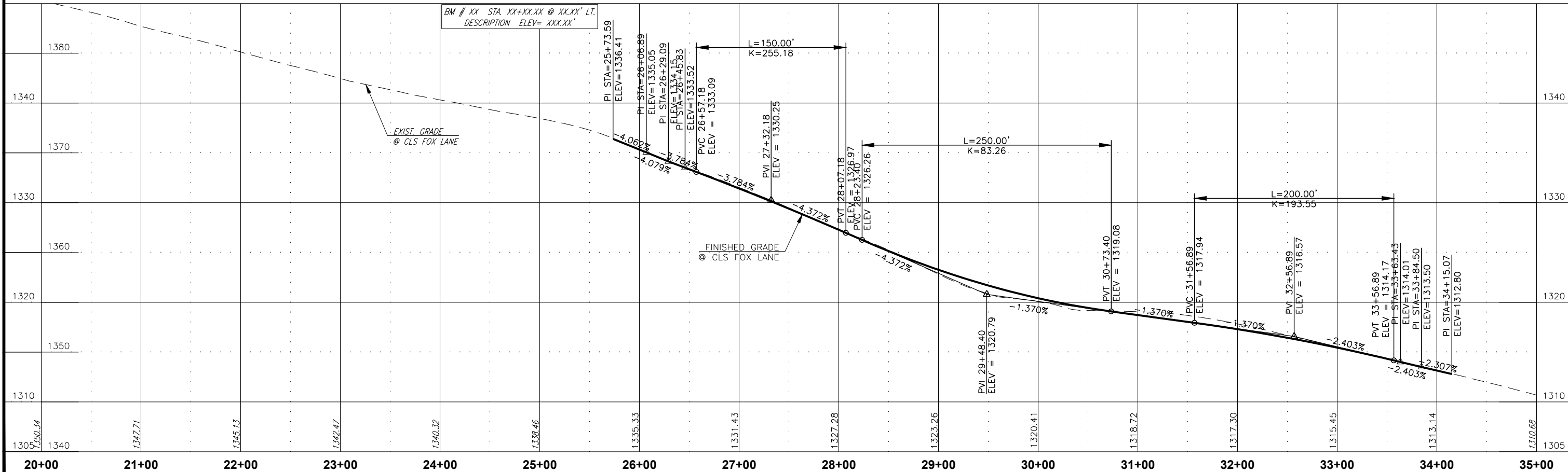
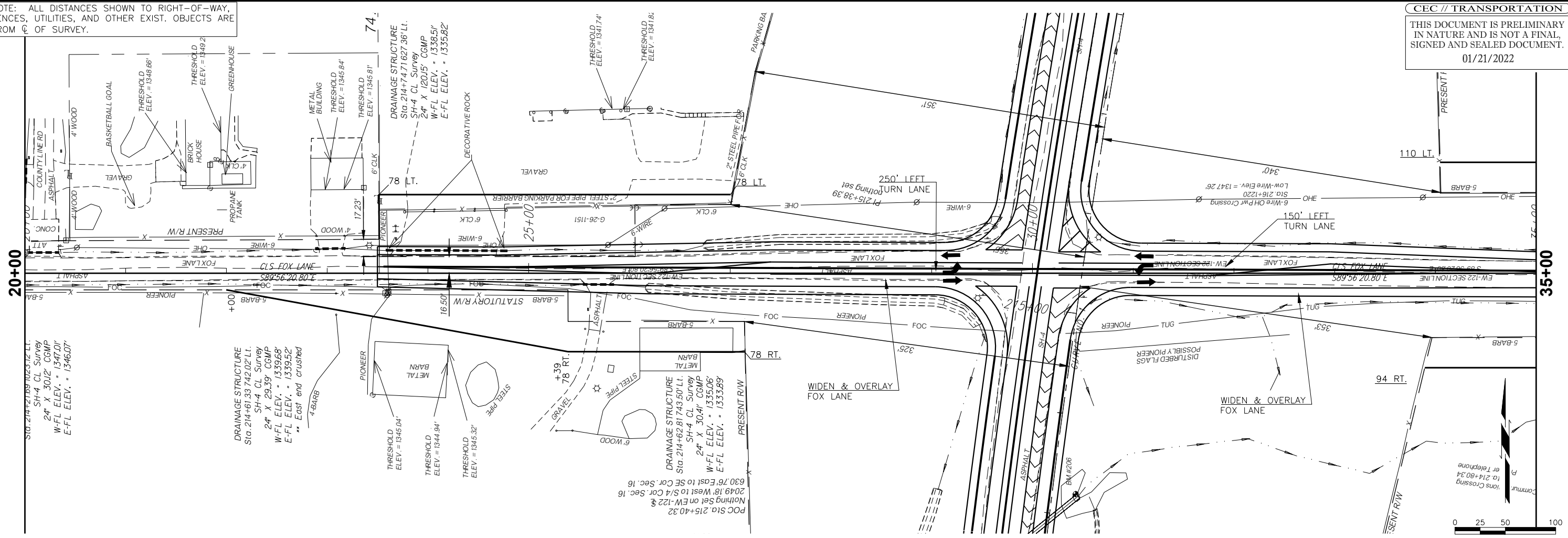
STATION	ELEVATION	DESCRIPTION
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224+00	1317.05	
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226+00	1318.80	
227+00	1319.50	
228+00	1320.37	
229+00	1321.37	
230+00	1322.39	
231+00	1323.30	
232+00	1324.23	
233+00	1325.14	
234+00	1326.09	
235+00	1326.93	

BM # XX STA. XX+XX.XX @ XX.XX' LT.
DESCRIPTION ELEV= XXX.XX'

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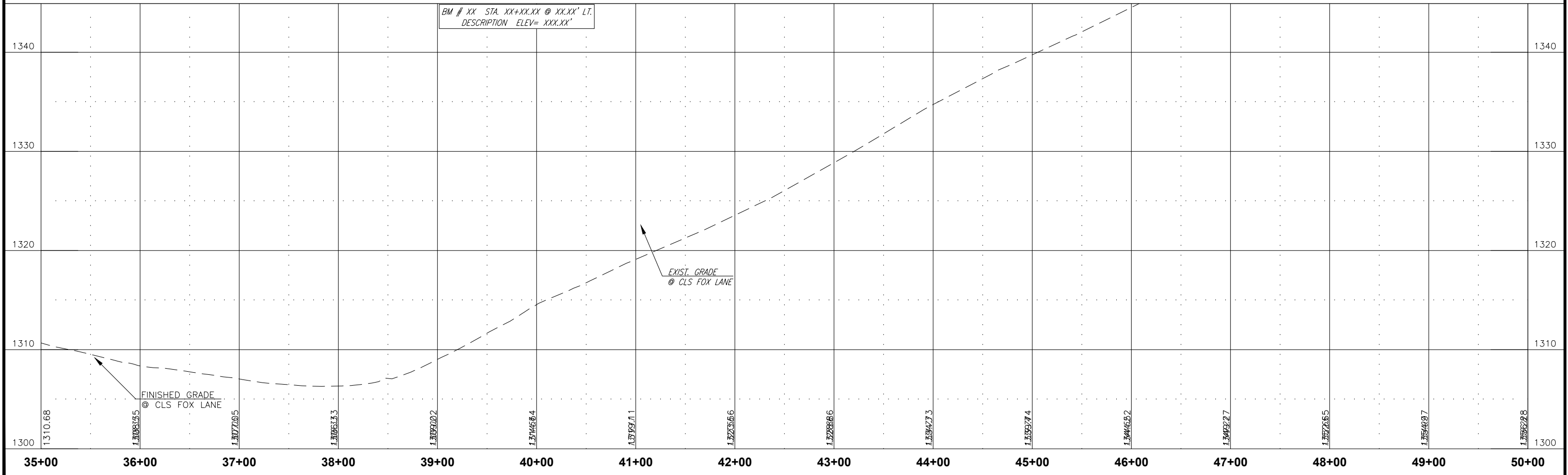
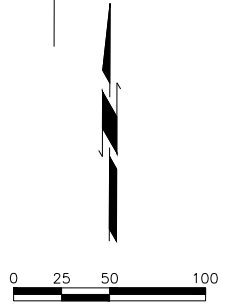
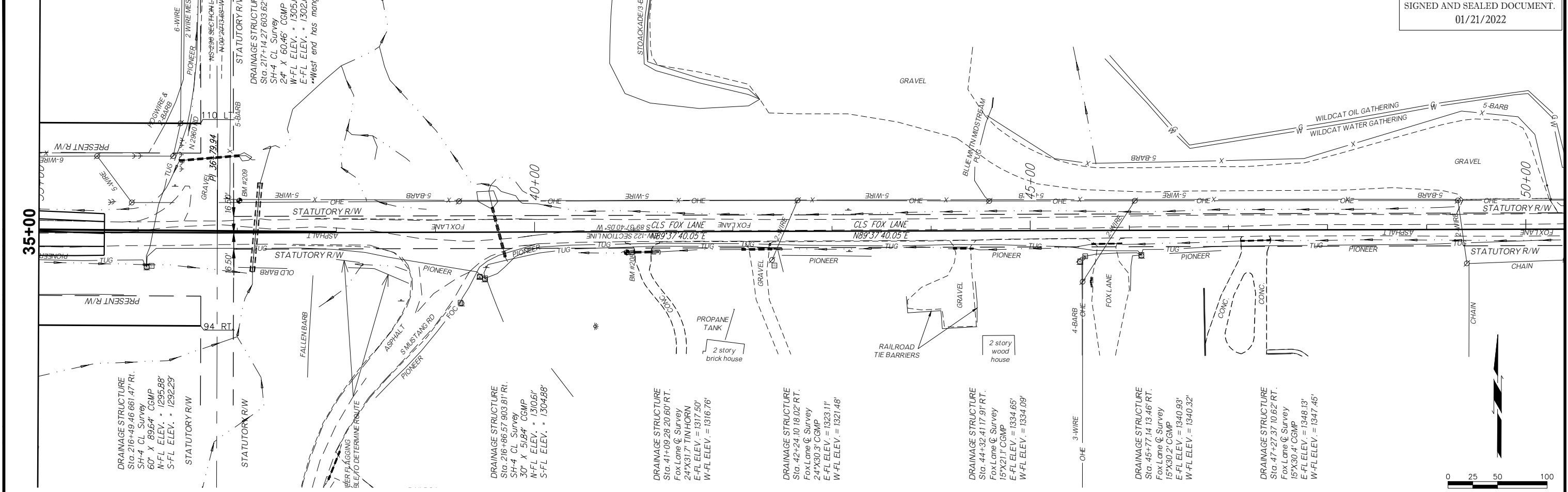
01/21/2022



ALT. 1F AT GRADE WITH OFFSET TURN LANES P&P CLS FOX LANE

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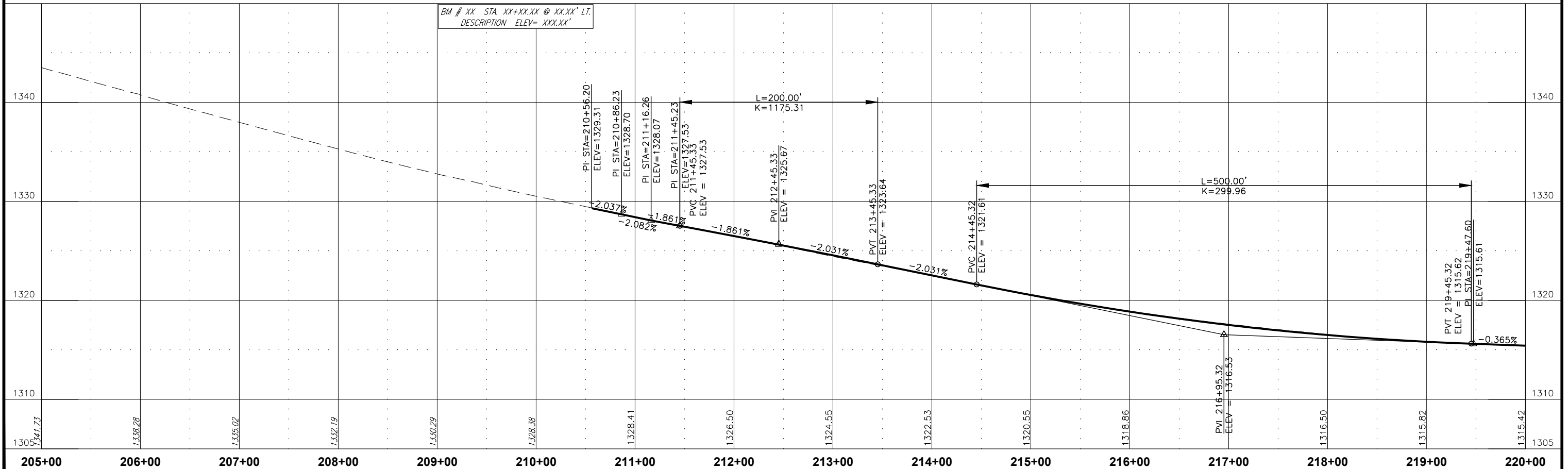
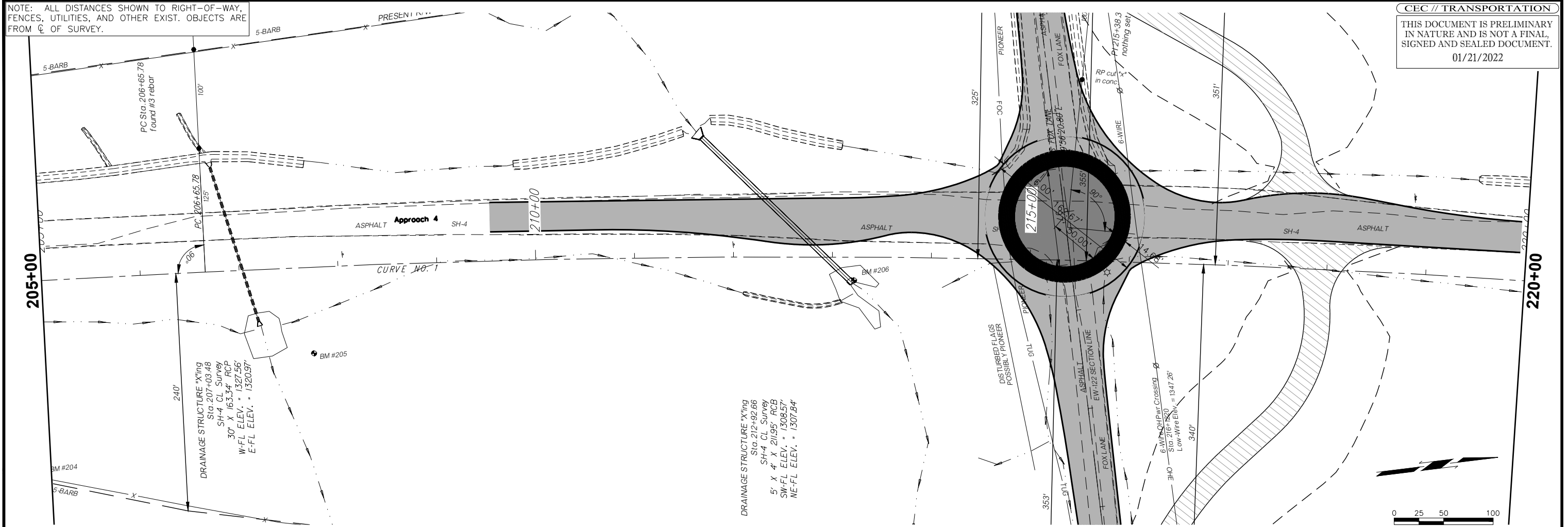
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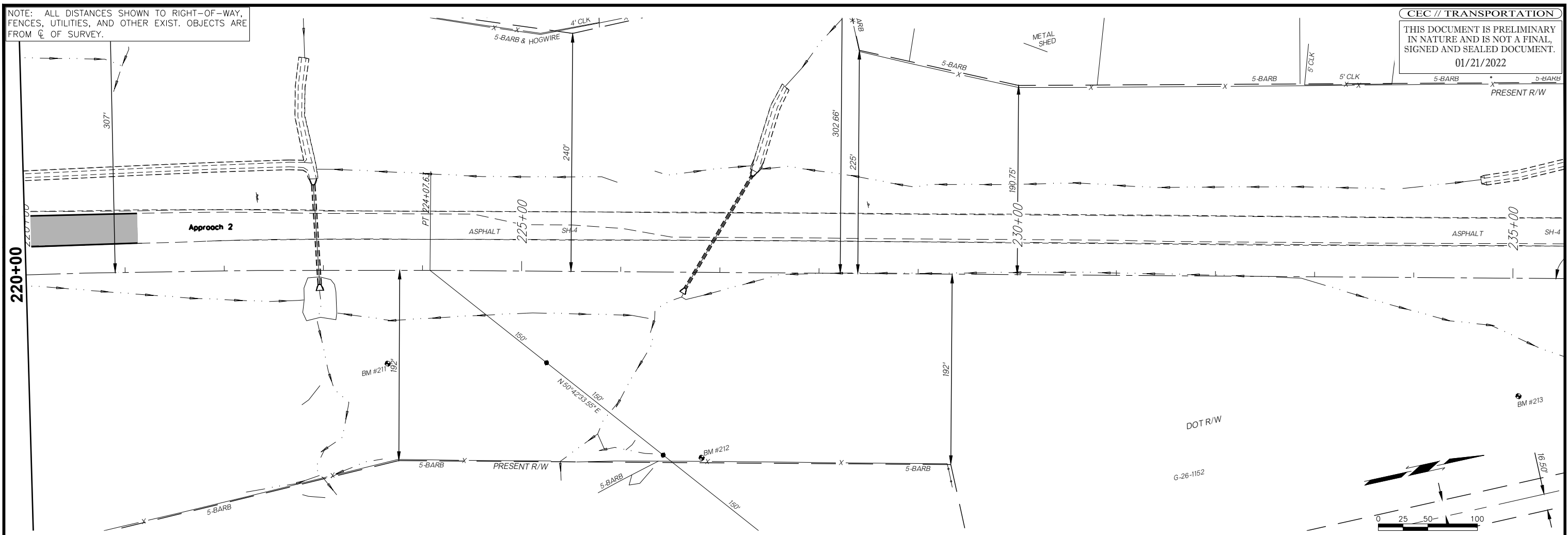
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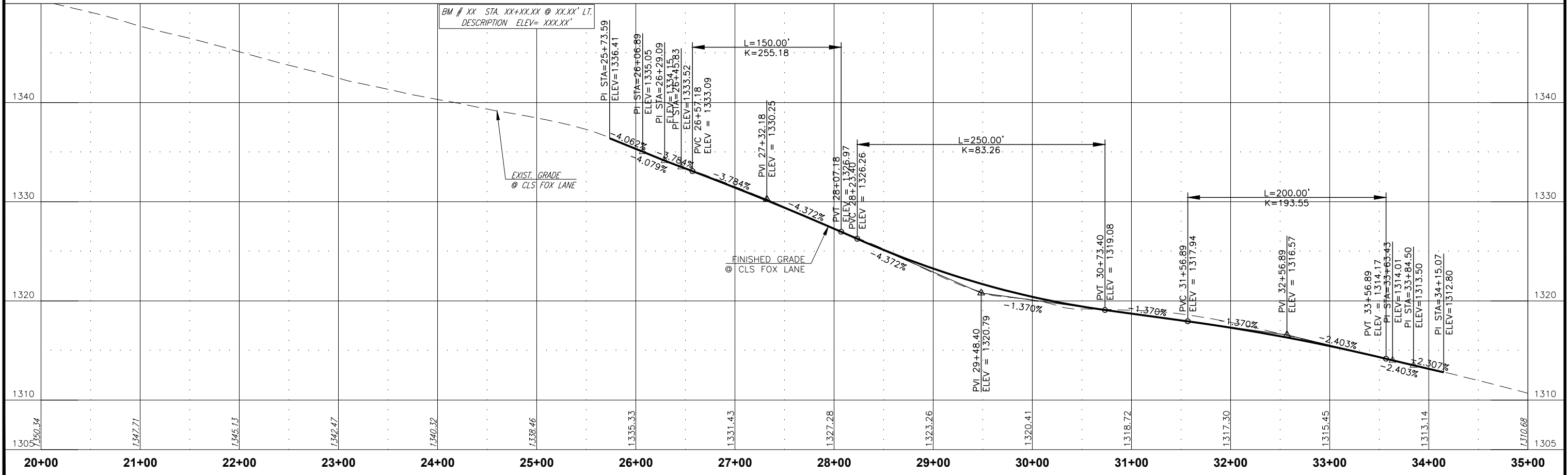
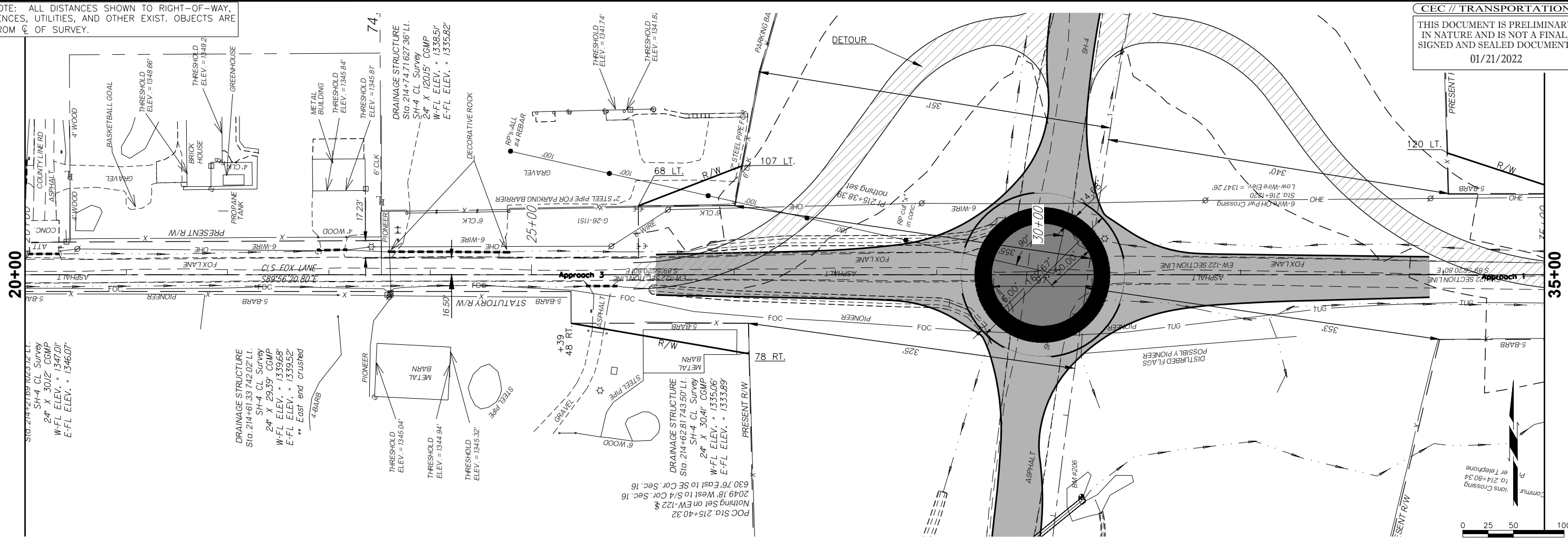


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221+00	1312.45	
222+00	1312.96	
223+00	1313.89	
224+00	1314.56	
225+00	1316.26	
226+00	1316.41	
227+00	1316.69	
228+00	1317.61	
229+00	1319.56	
230+00	1320.81	
231+00	1321.39	
232+00	1321.64	
233+00	1321.99	
234+00	1323.13	
235+00	1324.78	

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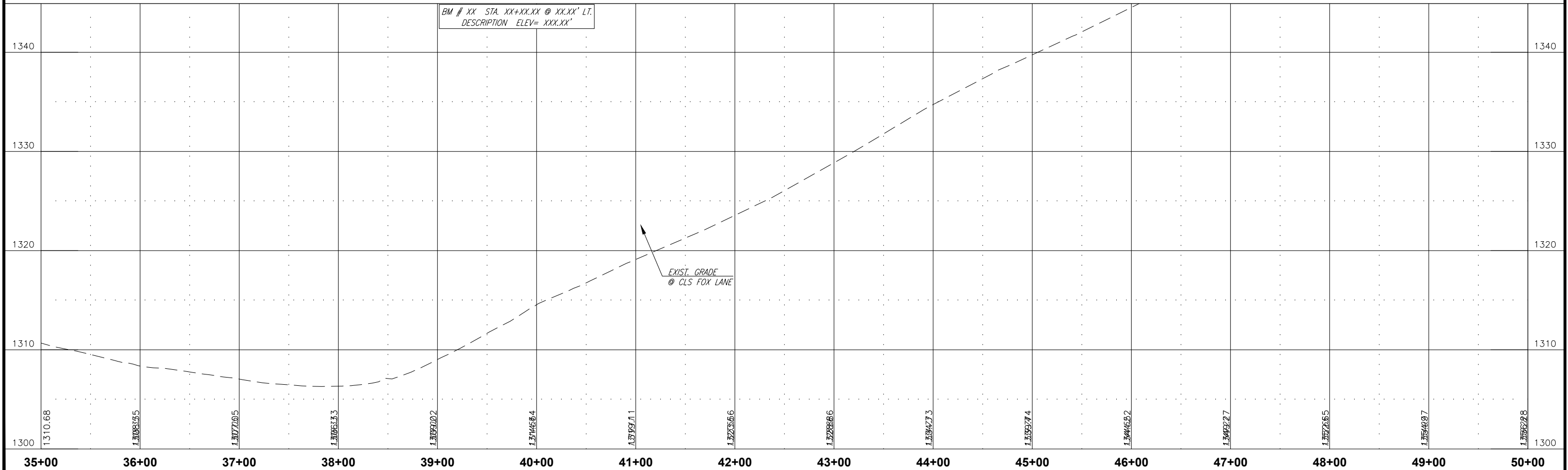
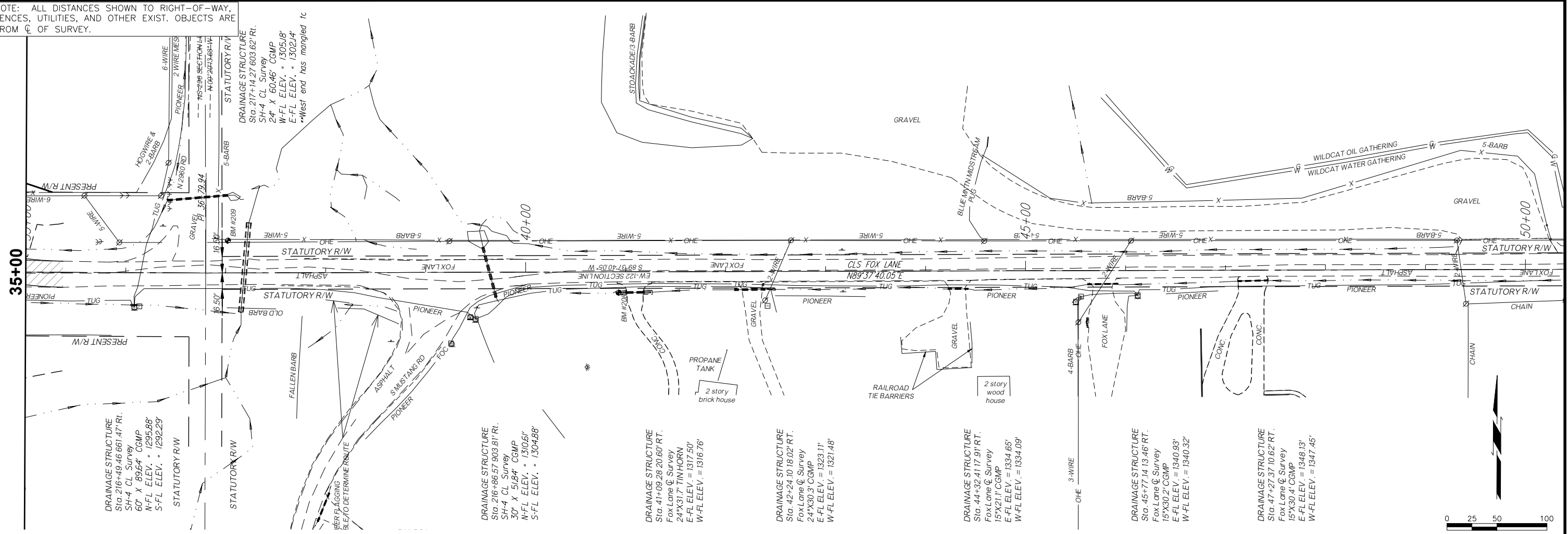
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01/21/2022



ALT. 2A ROUNDABOUT P&P CLS FOX LANE

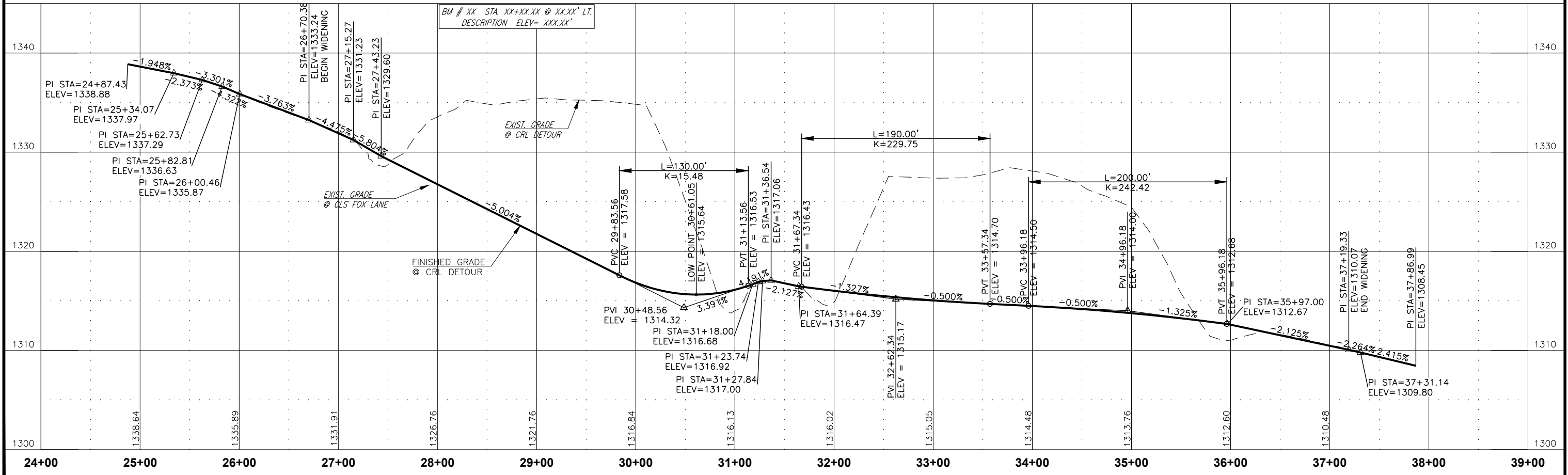
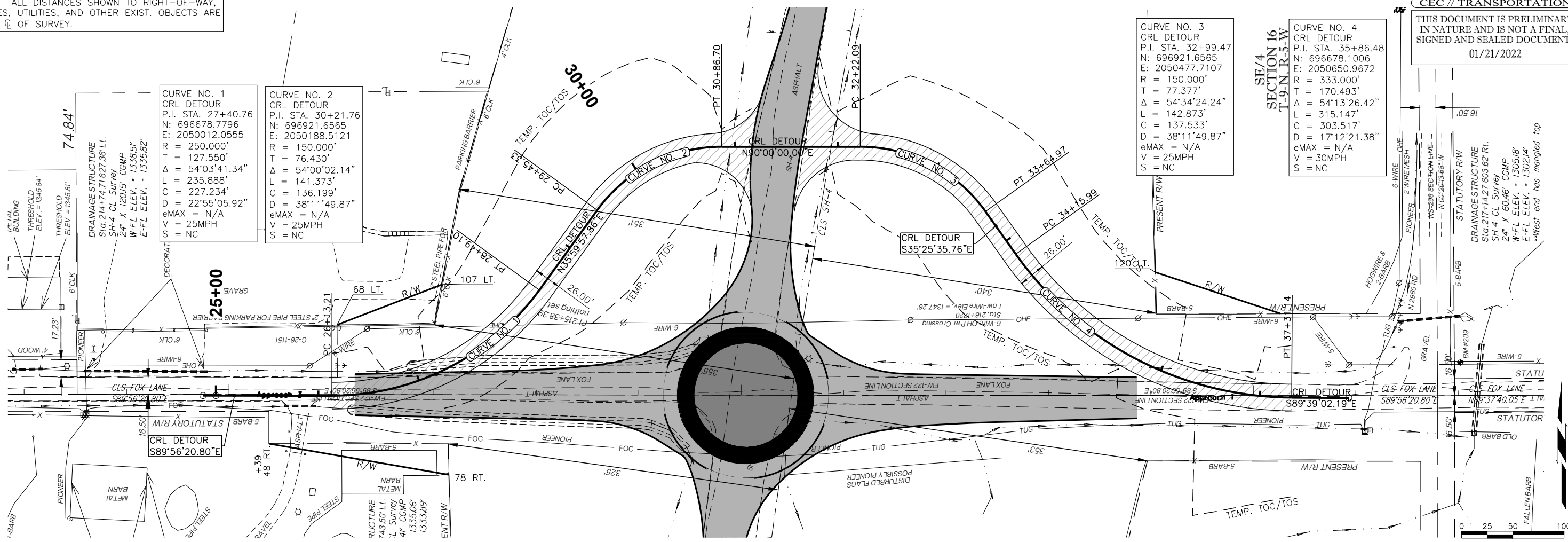
NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C. OF SURVEY.



BM # XX STA. XX+XX.XX @ XX.XX' LT.
DESCRIPTION ELEV= XXX.XX'

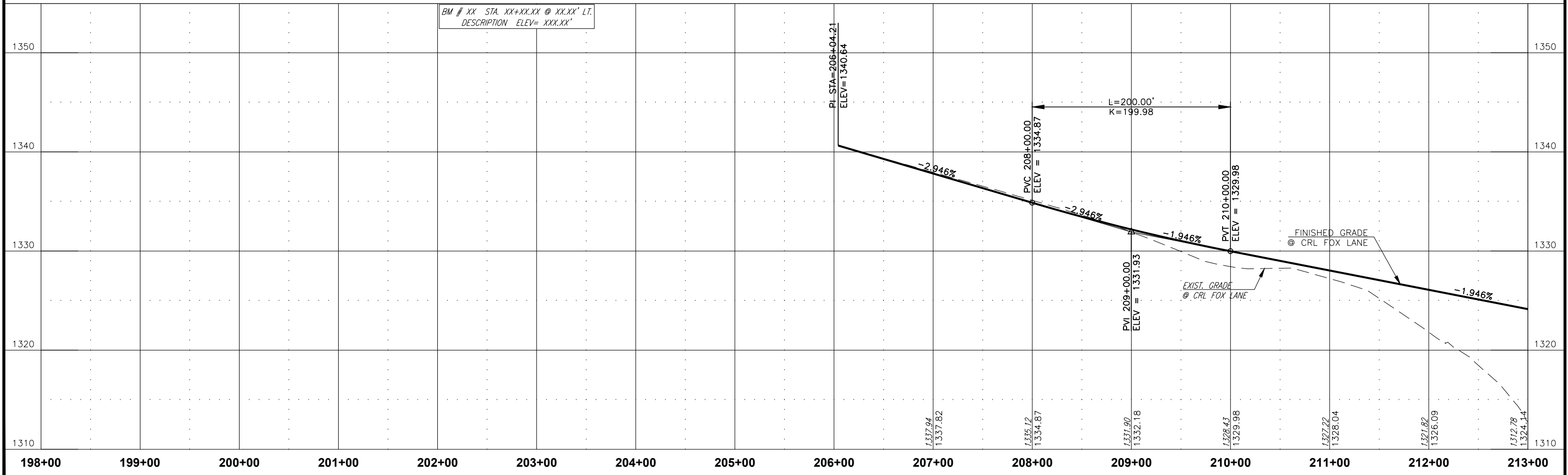
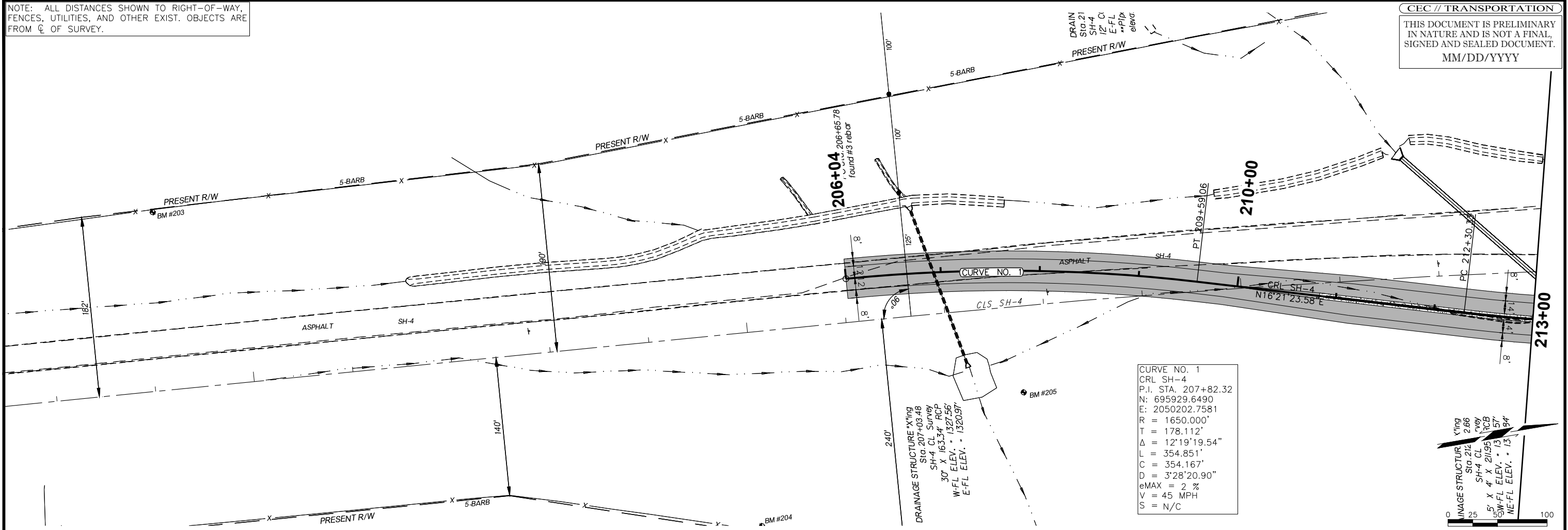
NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.

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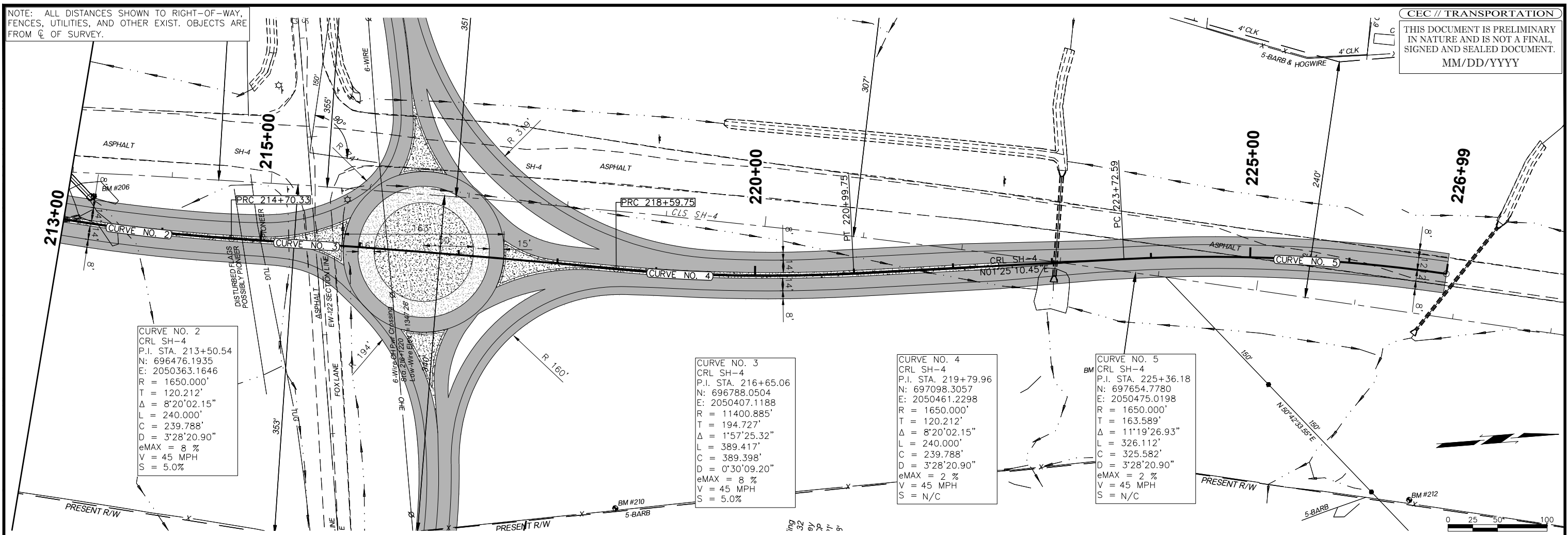
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MM/DD/YYYY



ALT. 2B ROUNDABOUT WITH BYPASS LANES P&P CRL SH-4

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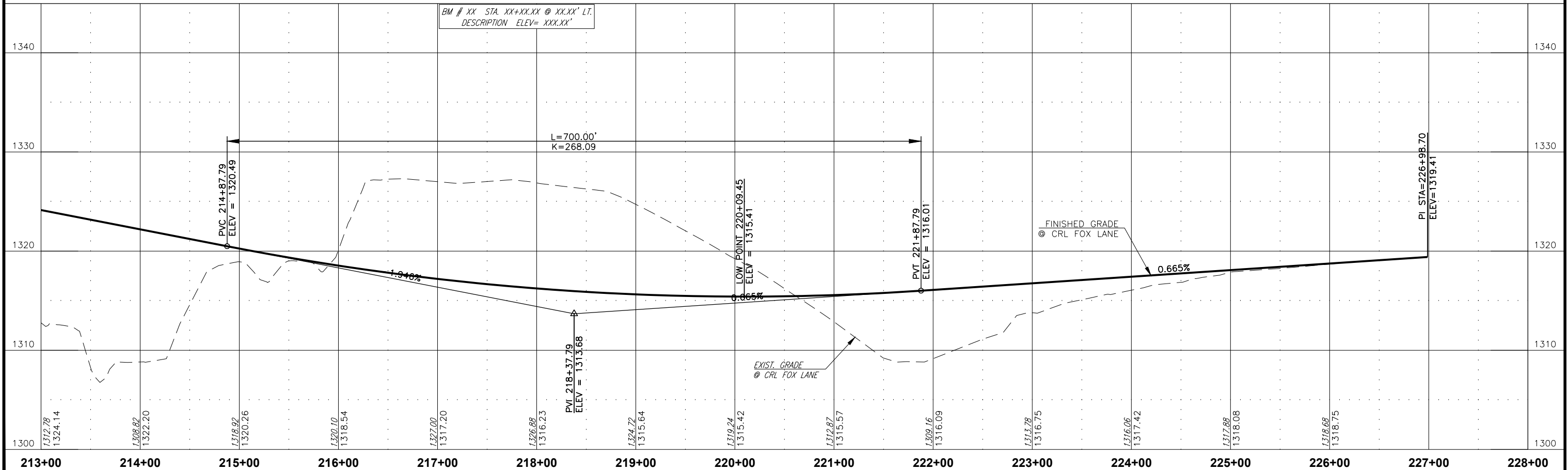
CURVE NO. 2
CRL SH-4
P.I. STA. 213+50.54
N: 696476.1935
E: 2050363.1646
R = 1650.000'
T = 120.212'
Δ = 8°20'02.15"
L = 240.000'
C = 239.788'
D = 3'28'20.90"
eMAX = 8 %
V = 45 MPH
S = 5.0%

CURVE NO. 3
CRL SH-4
P.I. STA. 216+65.06
N: 696788.0504
E: 2050407.1188
R = 11400.885'
T = 194.727'
Δ = 1°57'25.32"
L = 389.417'
C = 389.398'
D = 0°30'09.20"
eMAX = 8 %
V = 45 MPH
S = 5.0%

CURVE NO. 4
CRL SH-4
P.I. STA. 219+79.96
N: 697098.3057
E: 2050461.2298
R = 1650.000'
T = 120.212'
Δ = 8°20'02.15"
L = 240.000'
C = 239.788'
D = 3'28'20.90"
eMAX = 2 %
V = 45 MPH
S = N/C

CURVE NO. 5
CRL SH-4
P.I. STA. 225+36.18
N: 697654.7780
E: 2050475.0198
R = 1650.000'
T = 163.589'
Δ = 11°19'26.93"
L = 326.112'
C = 325.582'
D = 3'28'20.90"
eMAX = 2 %
V = 45 MPH
S = N/C

BM # XX STA. XX+XX.XX @ XX.XX' LT.
DESCRIPTION ELEV= XXX.XX'

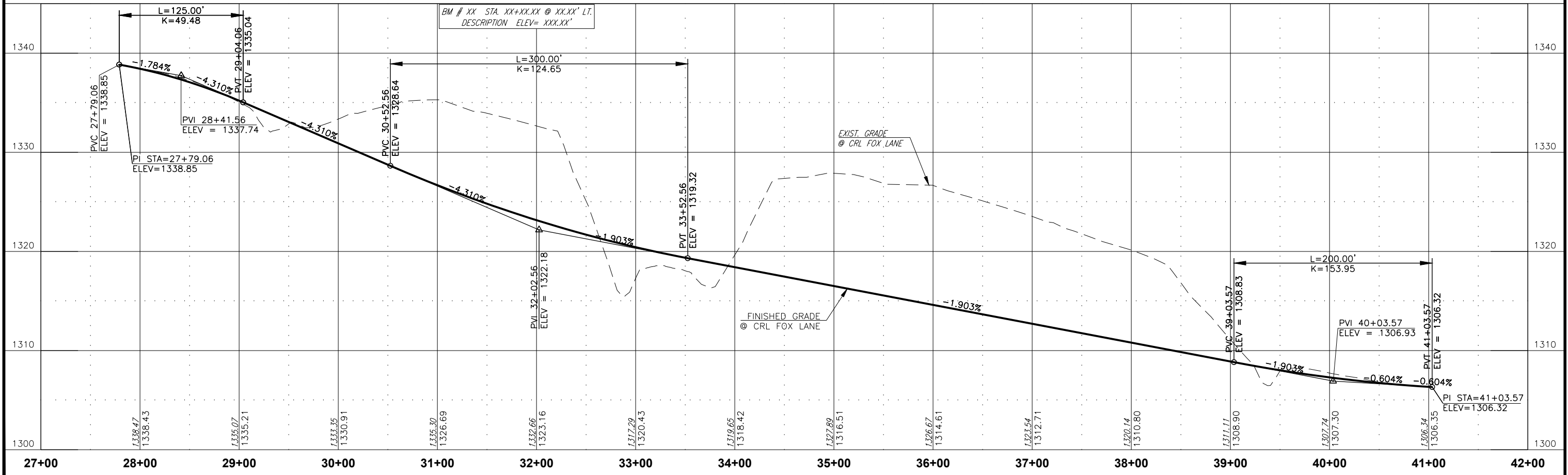
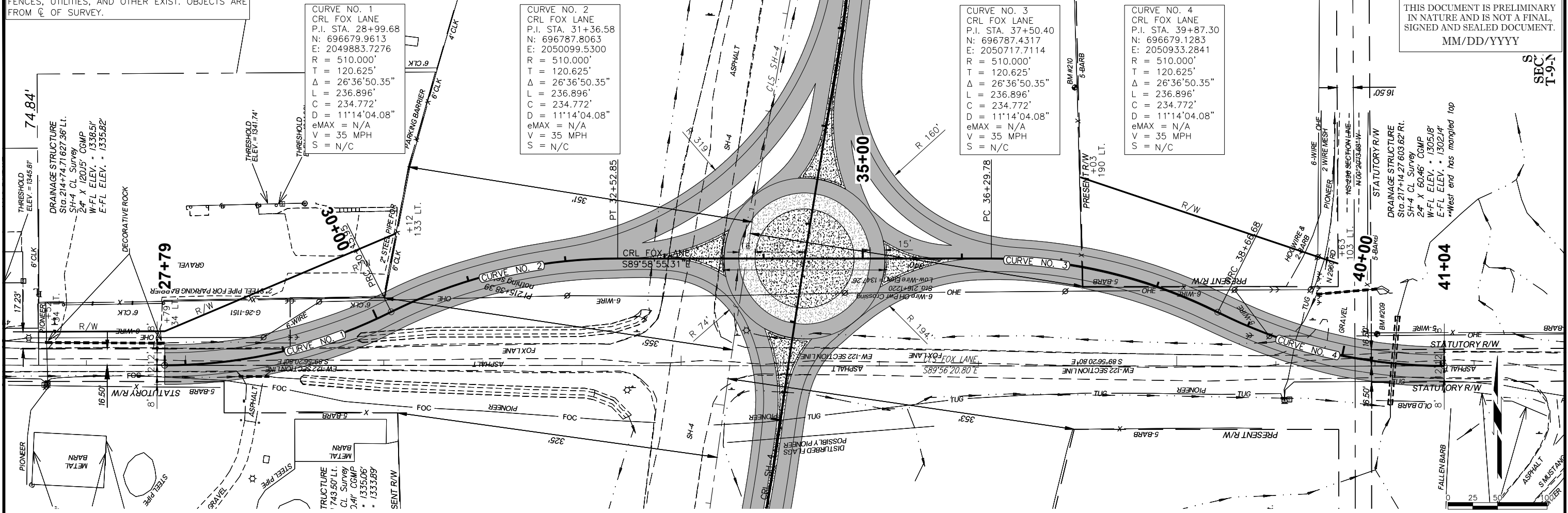


ALT. 2B ROUNDABOUT WITH BYPASS LANES P&P CRL SH-4

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SEC. T-9-1

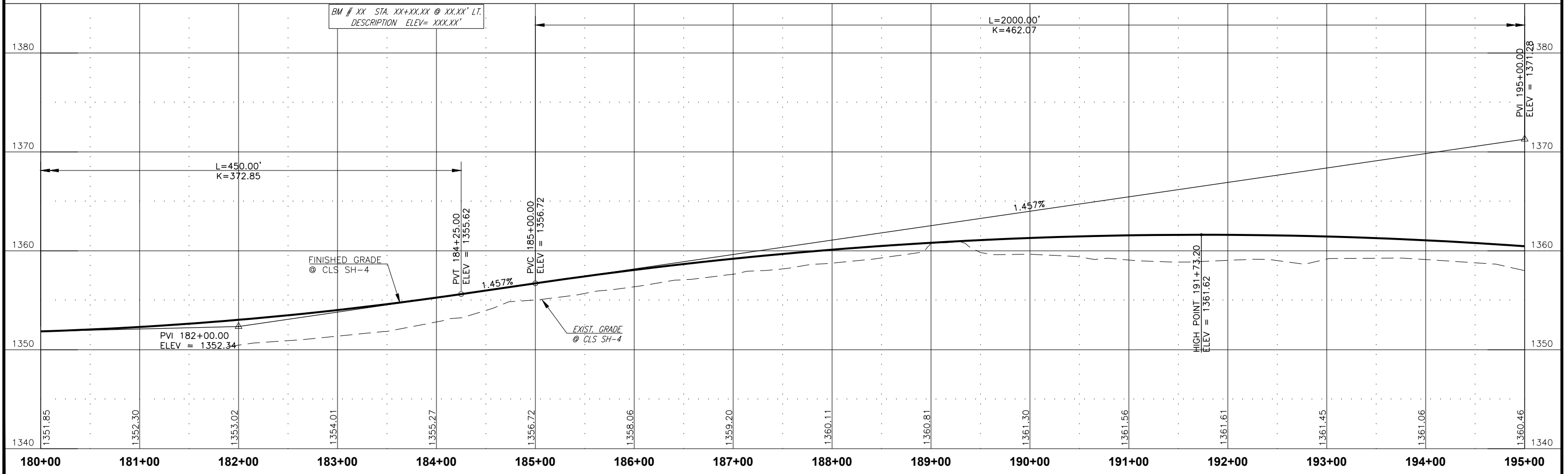
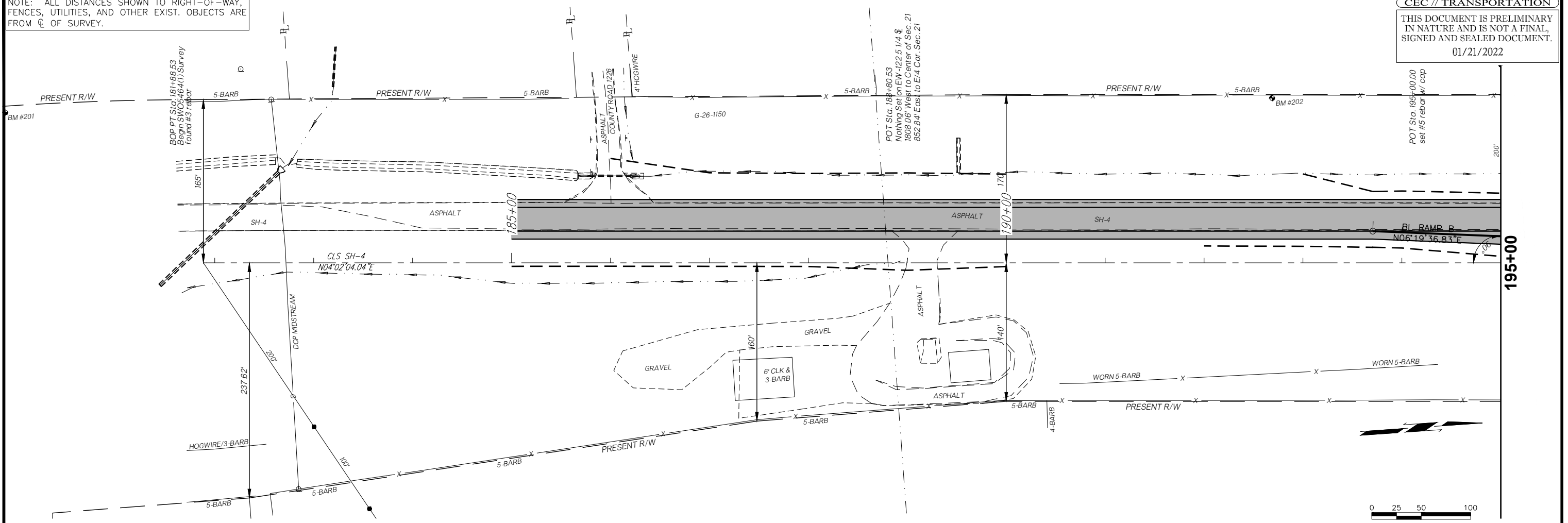


ALT. 2B ROUNDABOUT WITH BYPASS LANES P&P CRL FOX LANE

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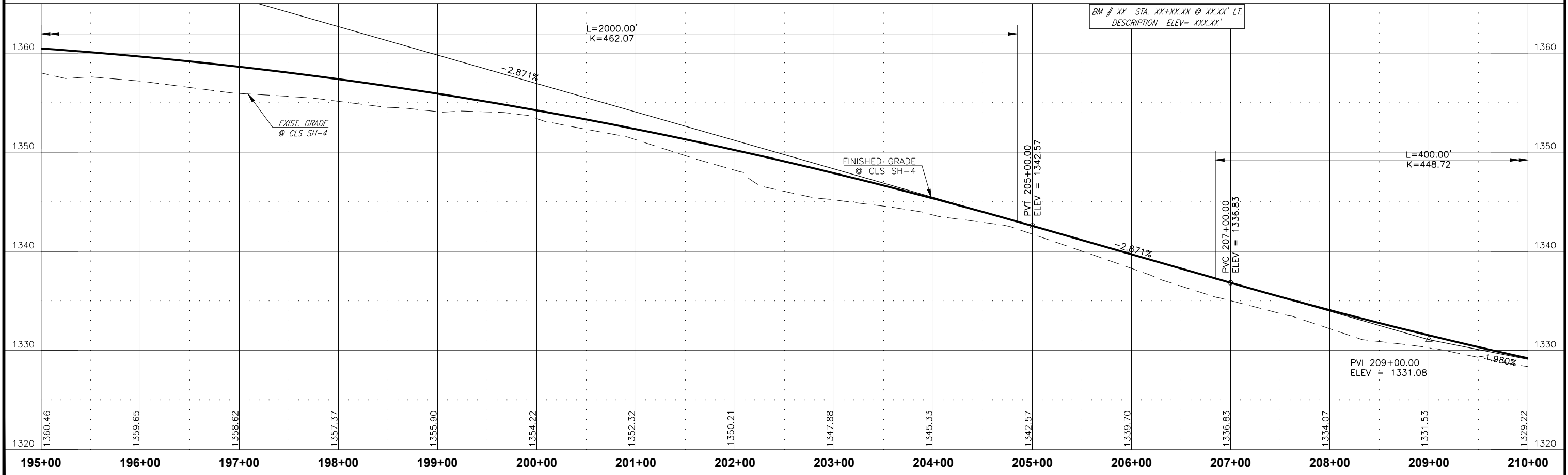
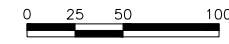
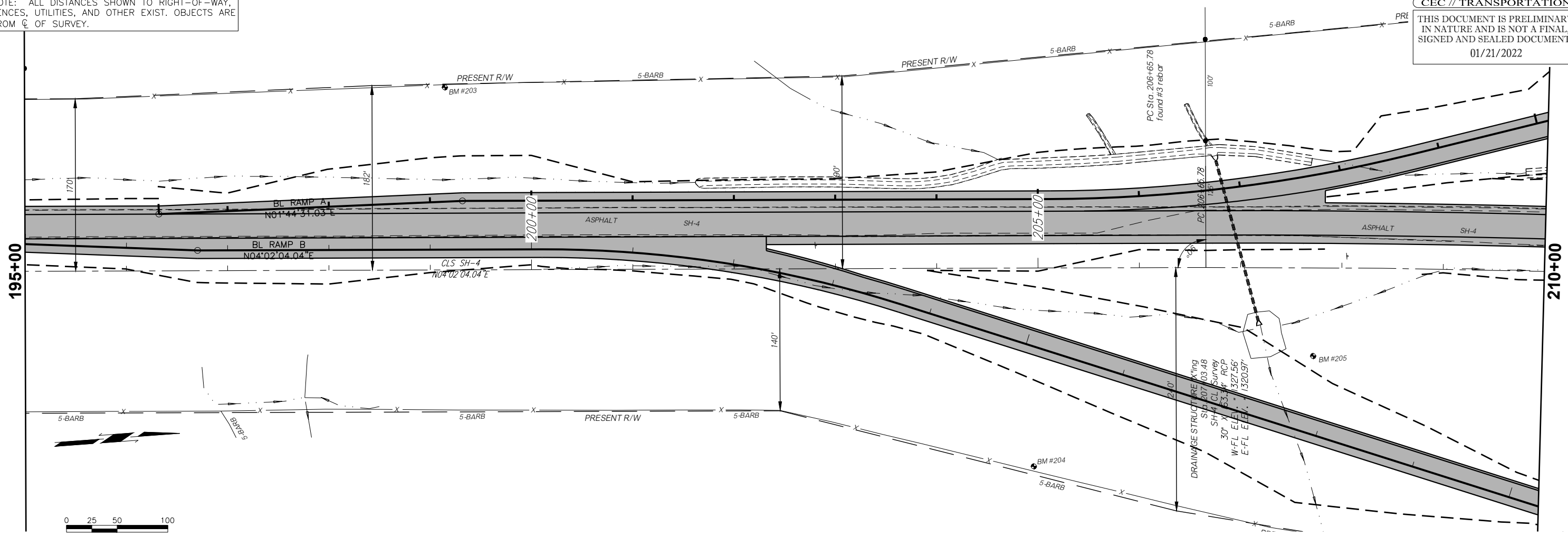
01/21/2022



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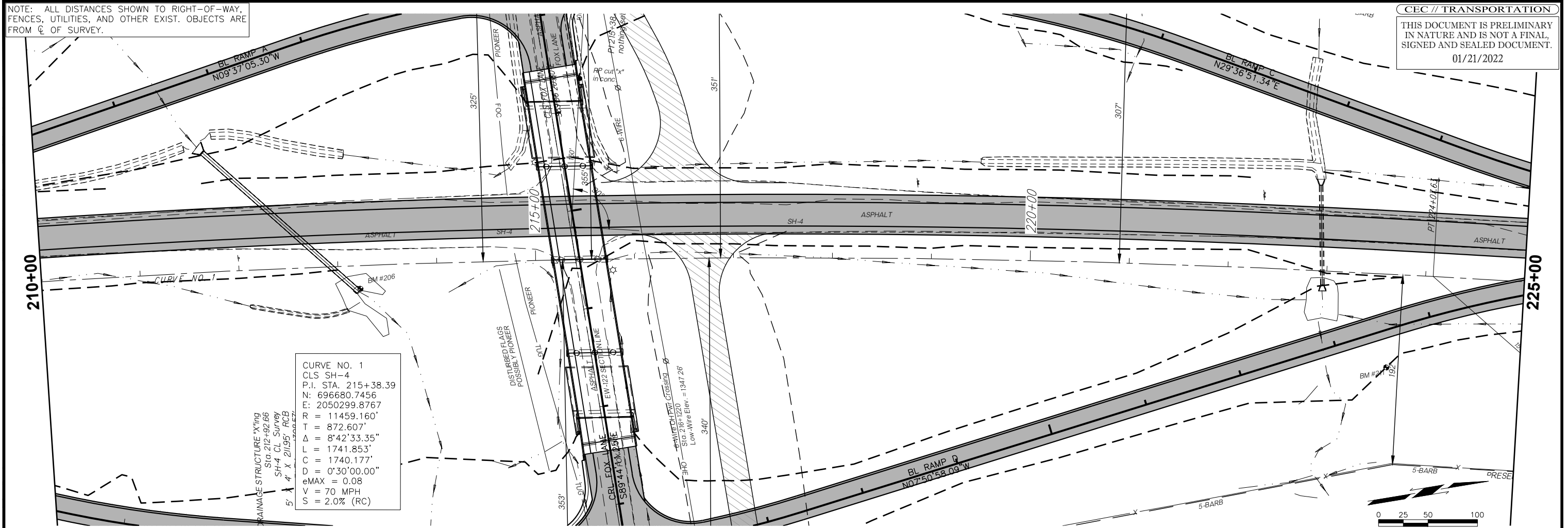
BM # XX STA. XX+XX.XX @ XX.XX' LT.
DESCRIPTION ELEV = XXX.XX'

ALT. 3A INTERCHANGE FOX LANE OVER SH-4 EXISTING ALIGNMENT

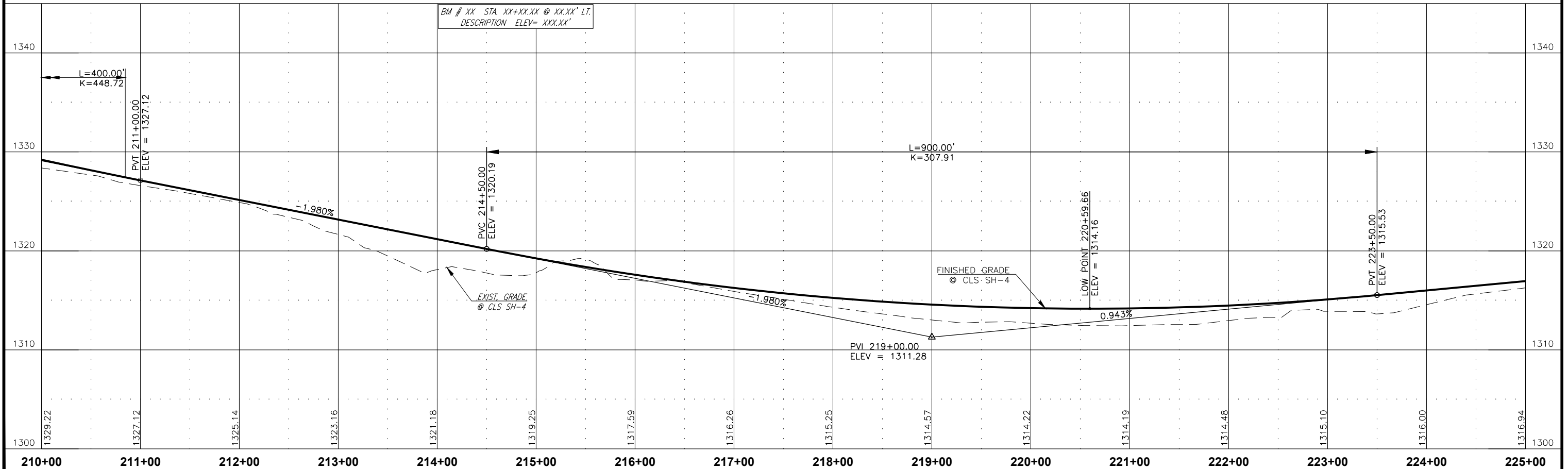
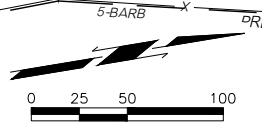
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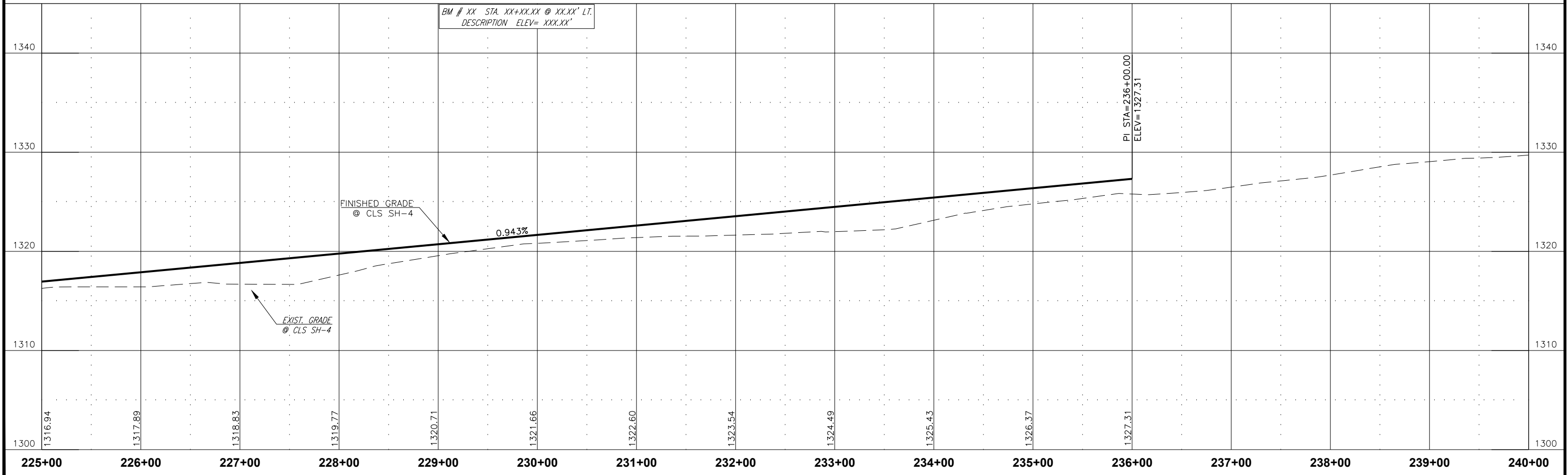
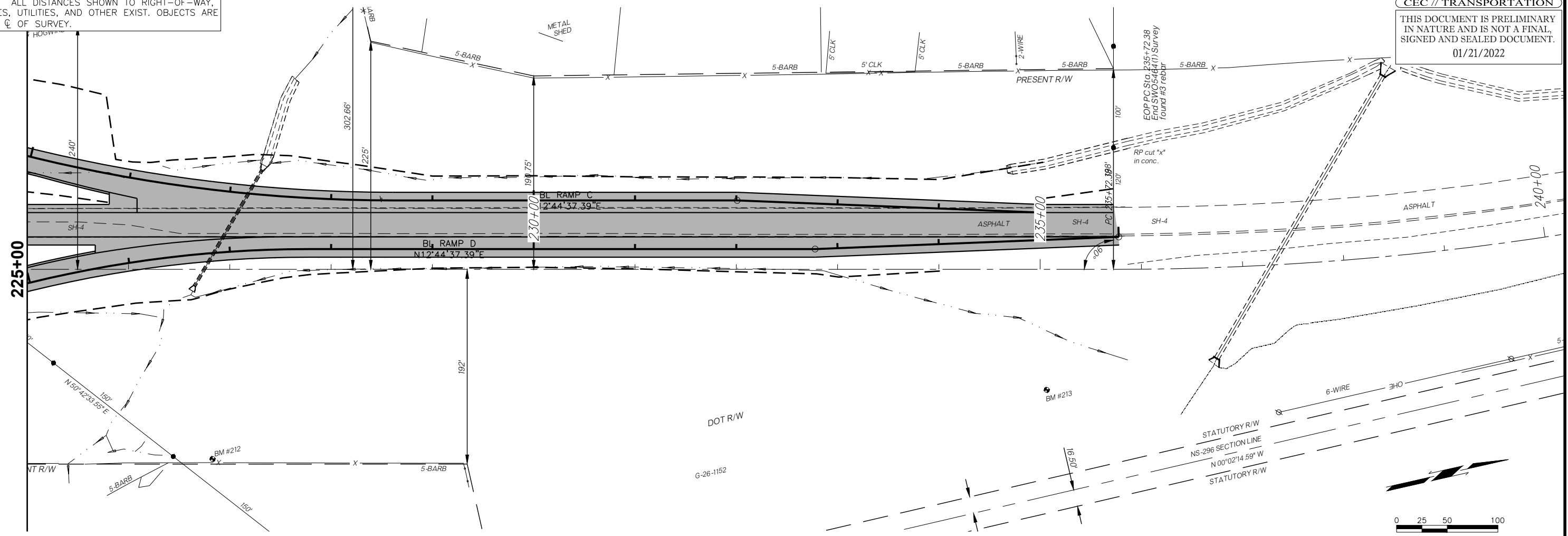
CURVE NO. 1
 CLS SH-4
 P.I. STA. 215+38.39
 N: 696680.7456
 E: 2050299.8767
 R = 11459.160'
 T = 872.607'
 Δ = 8°42'33.35"
 L = 1741.853'
 C = 1740.177'
 D = 0°30'00.00"
 eMAX = 0.08
 V = 70 MPH
 S = 2.0% (RC)



BM # XX STA. XX+XX.XX @ XX.XX' LT.
 DESCRIPTION ELEV = XXX.XX'

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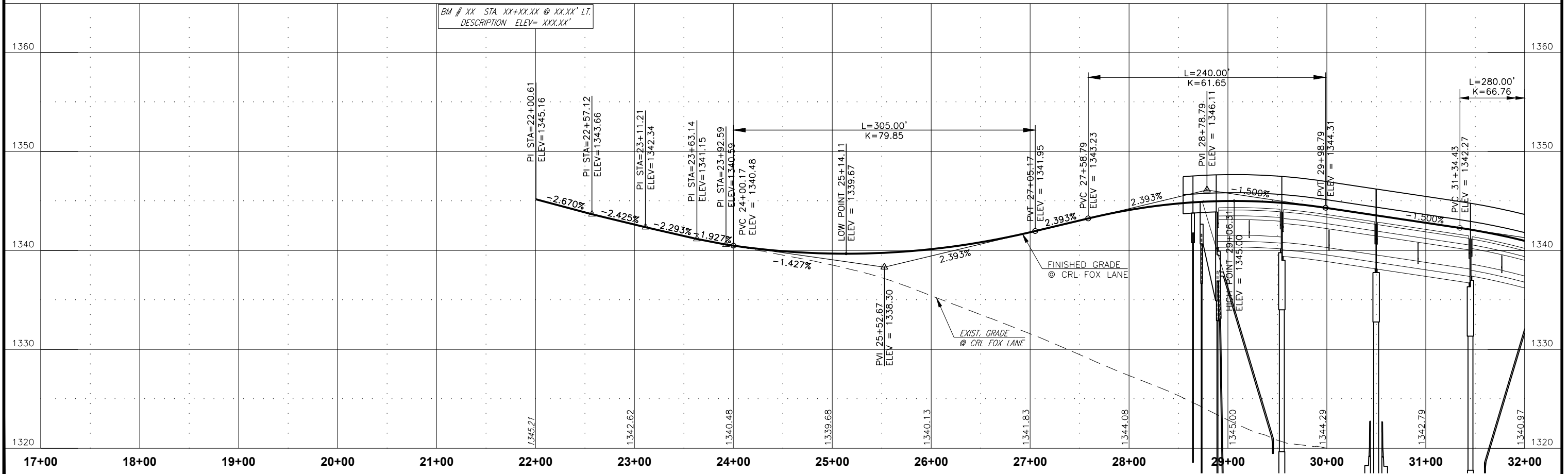
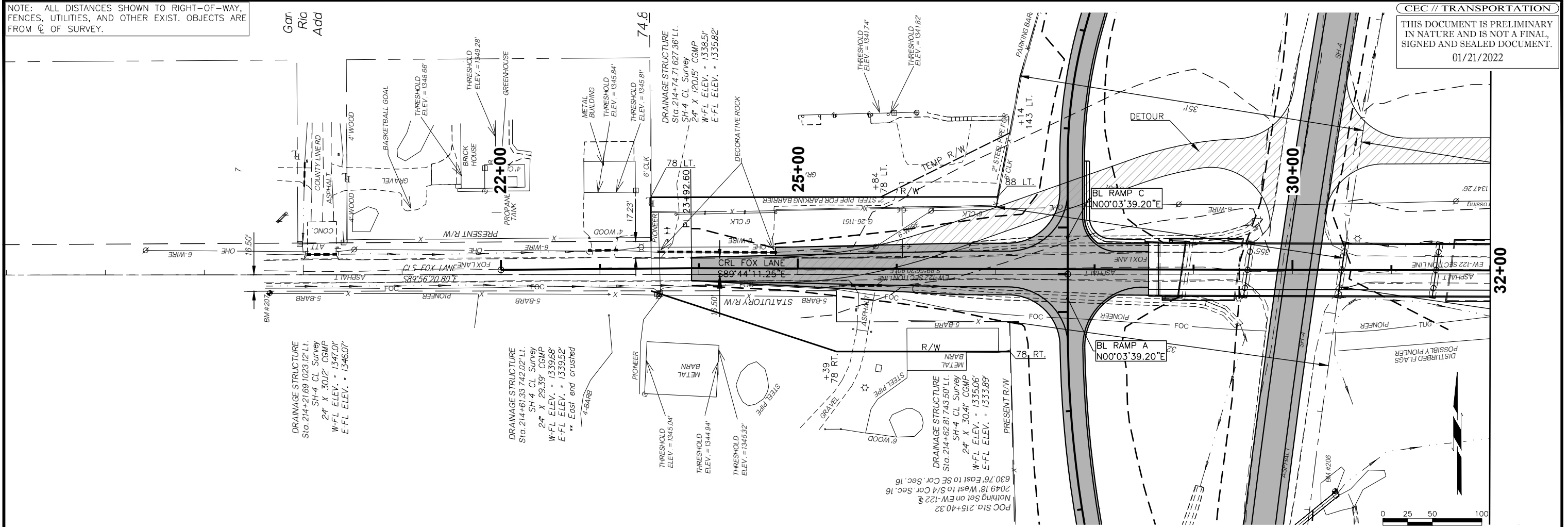
BM # XX STA. XX+XX.XX @ XX.XX' LT.
DESCRIPTION ELEV= XXX.XX'

ALT. 3A INTERCHANGE FOX LANE OVER SH-4 EXISTING ALIGNMENT

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.

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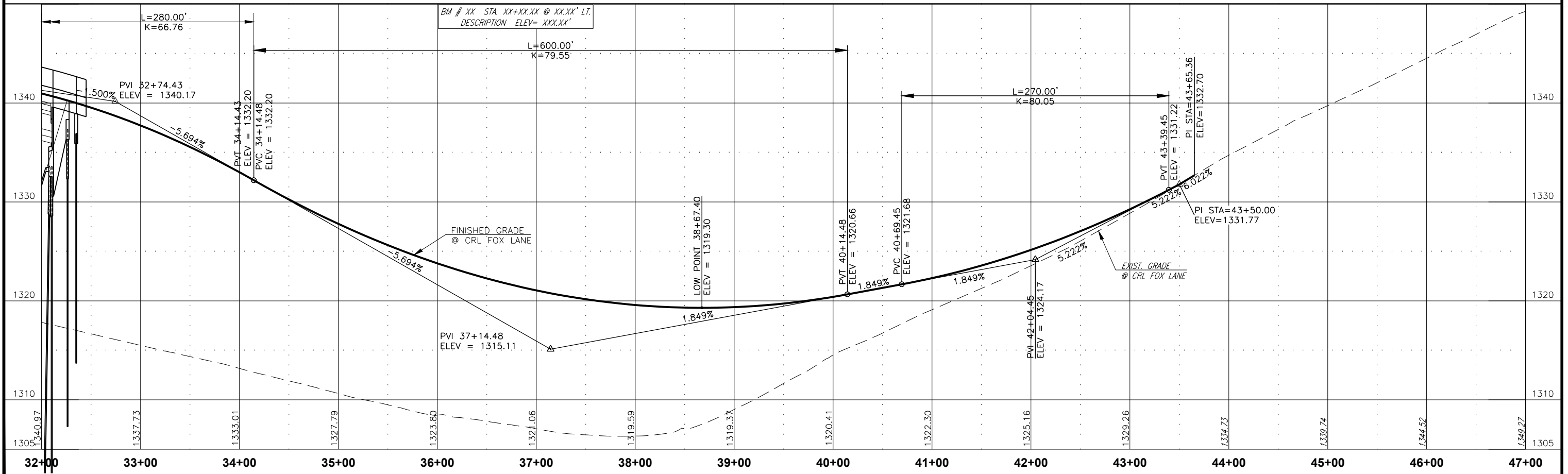
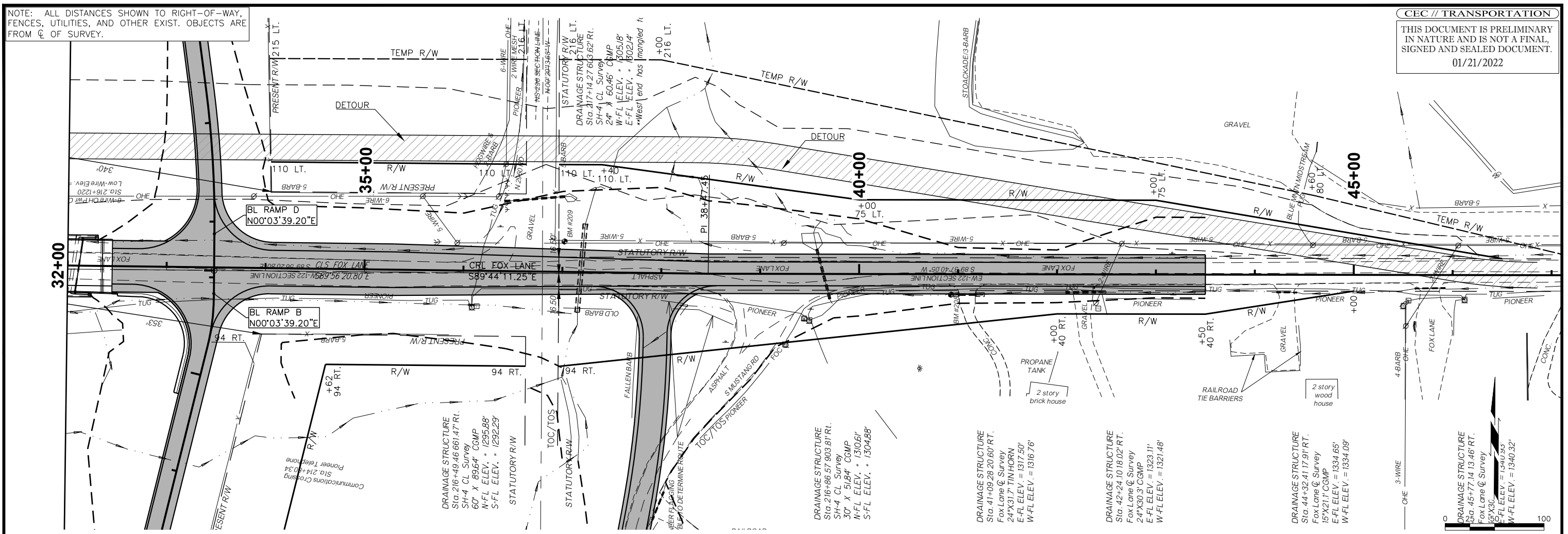


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NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.

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01/21/2022



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01/21/2022

NE/4 SECTION 21 T-9-N, R-5-W

CURVE NO. 1
CRL MUSTANG RD. SOUTH
P.I. STA. 13+46.49
N: 696526.1771
E: 2051077.9535
R = 1039.000'
T = 90.729'
Δ = 9°58'52.21"
L = 180.998'
C = 180.769'
D = 5°30'52.24"
eMAX = N/A
V = 45mph
S = 2.0% (NC)

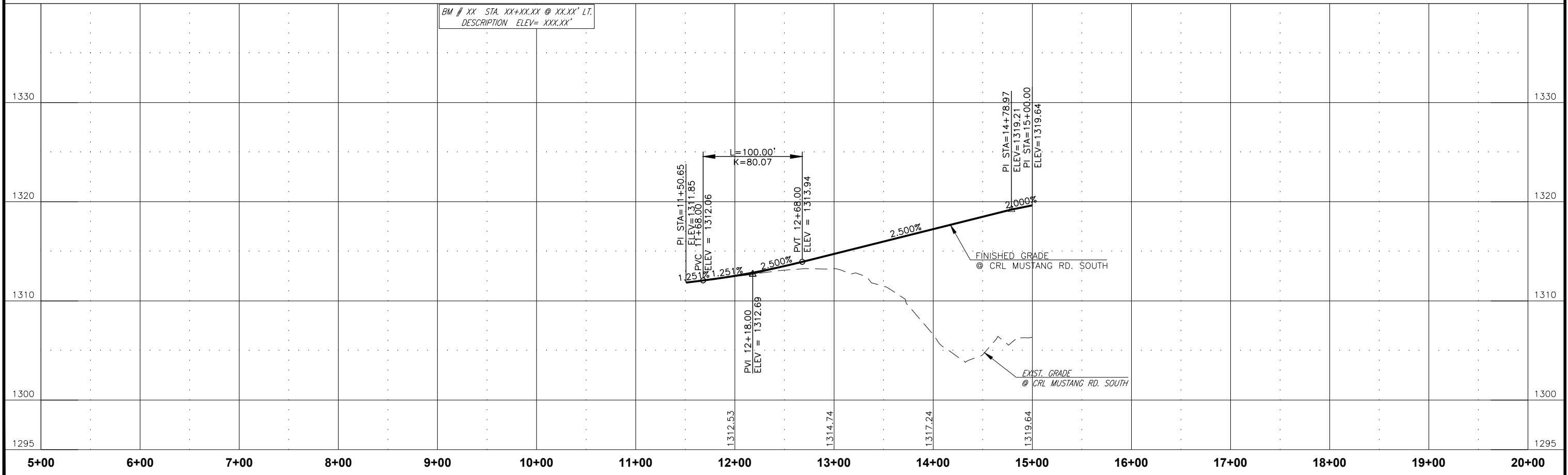
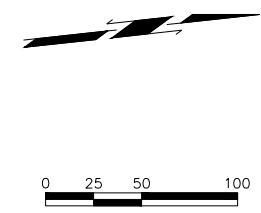
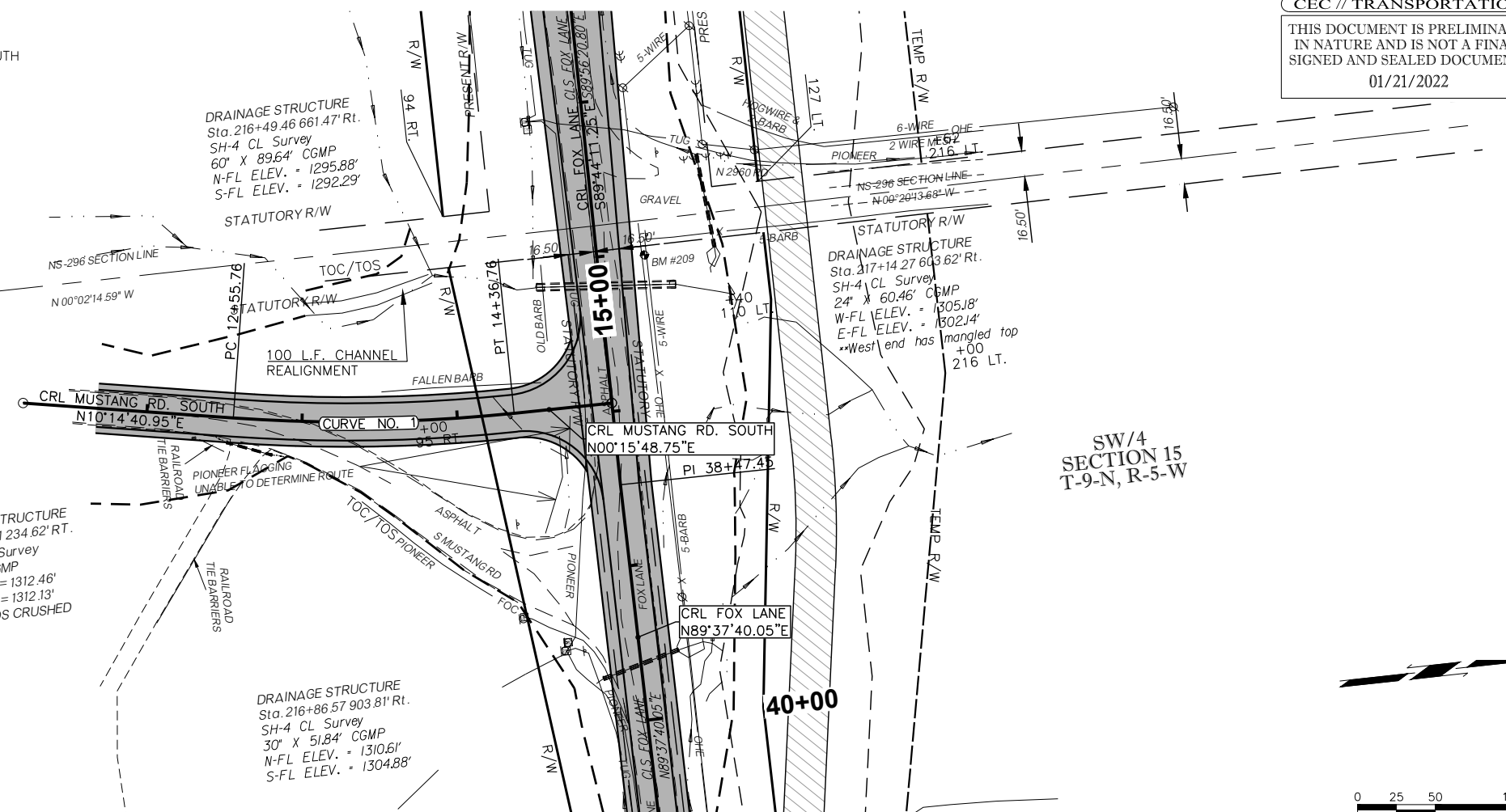
NW/4 SECTION 22 T-9-N, R-5-W

DRAINAGE STRUCTURE
Sta. 37+97.11 234.62' RT.
Fox Lane @ Survey
18" X 30" CGMP
N-FL ELEV. = 1312.46'
S-FL ELEV. = 1312.13'
*BOTH ENDS CRUSHED

DRAINAGE STRUCTURE
Sta. 216+49.46 661.47' RT.
SH-4 CL Survey
60" X 89.64' CGMP
N-FL ELEV. = 1295.88'
S-FL ELEV. = 1292.29'

DRAINAGE STRUCTURE
Sta. 217+14.27 603.62' RT.
SH-4 CL Survey
24" X 60.46' CGMP
W-FL ELEV. = 1305.18'
E-FL ELEV. = 1302.14'
*West end has mangled top +00 216 LT.

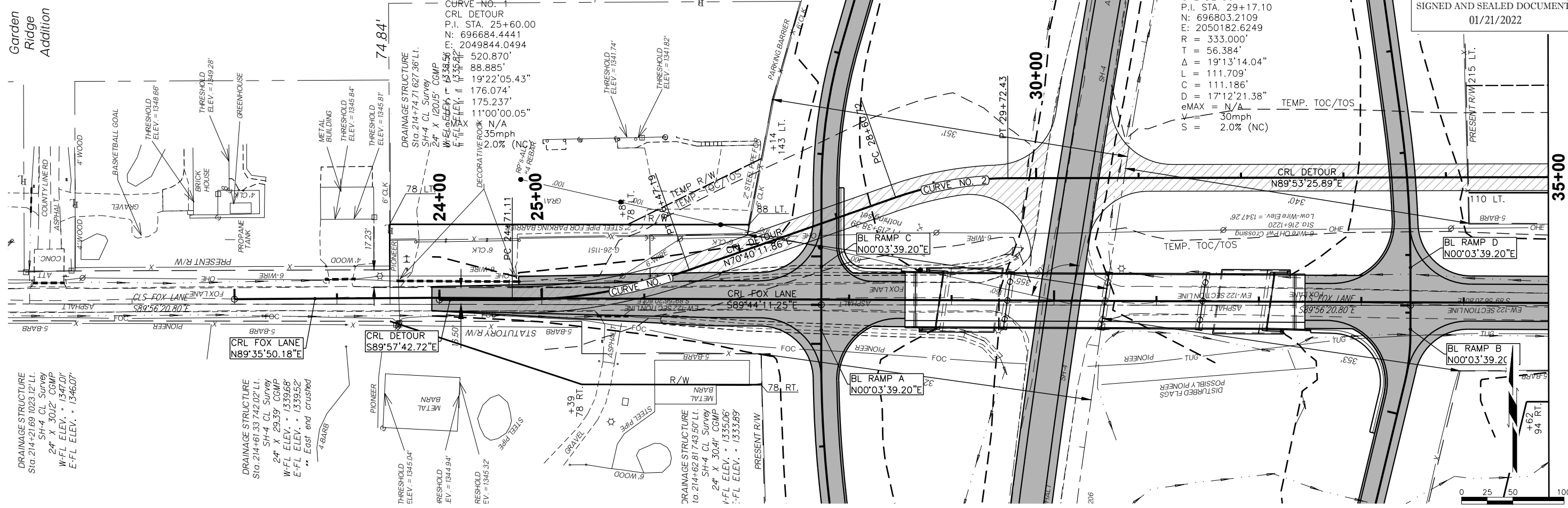
DRAINAGE STRUCTURE
Sta. 216+86.57 903.81' RT.
SH-4 CL Survey
30" X 51.84' CGMP
N-FL ELEV. = 1310.61'
S-FL ELEV. = 1304.88'



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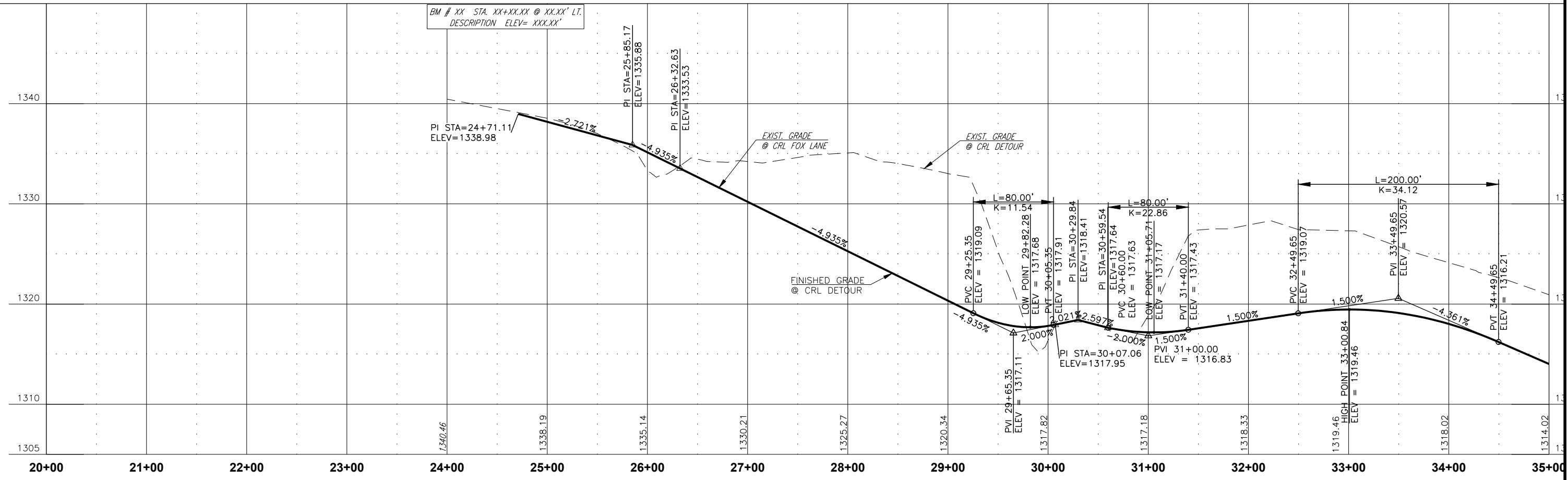
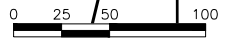
CURVE NO. 2
 CRL DETOUR
 P.I. STA. 29+17.10
 N: 696803.2109
 E: 2050182.6249
 R = 333.000'
 T = 56.384'
 $\Delta = 19'13''14.04''$
 L = 111.709'
 C = 111.186'
 D = 17'12''21.38''
 $e_{MAX} = N/A$ TEMP. TOC/TOS
 V = 30mph
 S = 2.0% (NC)

CURVE NO. 1
 CRL DETOUR
 P.I. STA. 25+60.00
 N: 696684.4441
 E: 2049844.0494
 R = 520.870'
 T = 88.885'
 $\Delta = 19'22''05.43''$
 L = 176.074'
 C = 175.237'
 D = 11'00''00.05''
 $e_{MAX} = N/A$
 V = 35mph
 S = 2.0% (NC)

DRAINAGE STRUCTURE
 Sta. 214+21.69 TO 23.12 L.L.
 SH-4 CL Survey
 24" X 30" CGMP
 W-FL ELEV. = 1347.01'
 E-FL ELEV. = 1346.07'

DRAINAGE STRUCTURE
 Sta. 214+61.33 TO 74.02 L.L.
 SH-4 CL Survey
 24" X 29.39" CGMP
 W-FL ELEV. = 1339.68'
 E-FL ELEV. = 1339.52'
 ** East end crushed

DRAINAGE STRUCTURE
 Sta. 214+62.81 TO 74.50 L.L.
 SH-4 CL Survey
 24" X 30.41" CGMP
 W-FL ELEV. = 1335.06'
 E-FL ELEV. = 1333.89'



ALT. 3A INTERCHANGE P&P CRL DETOUR

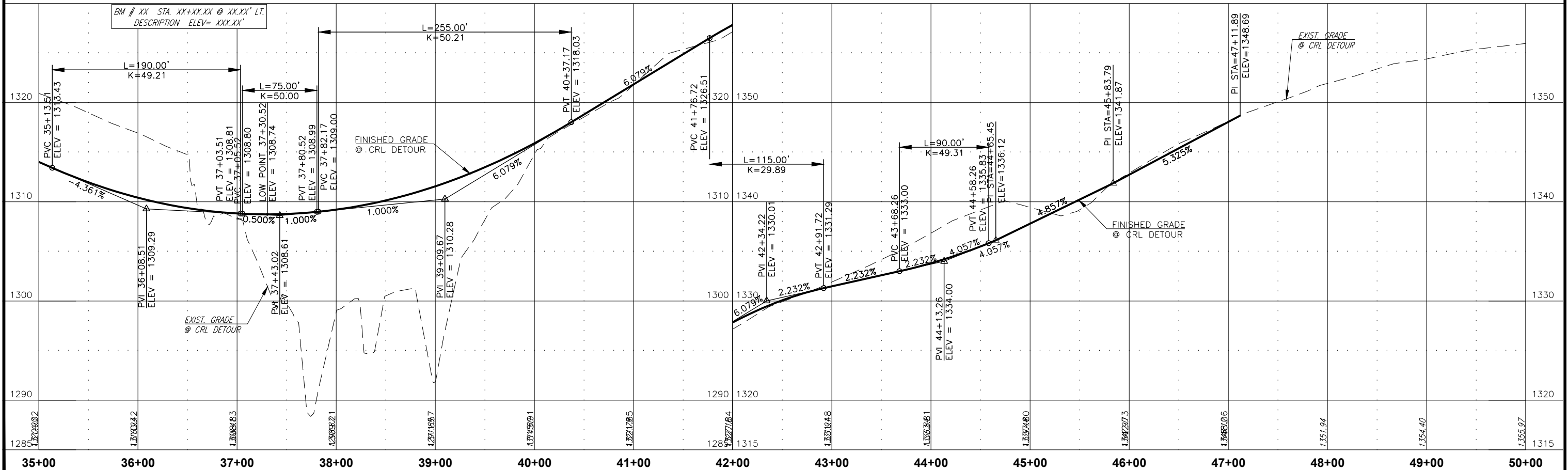
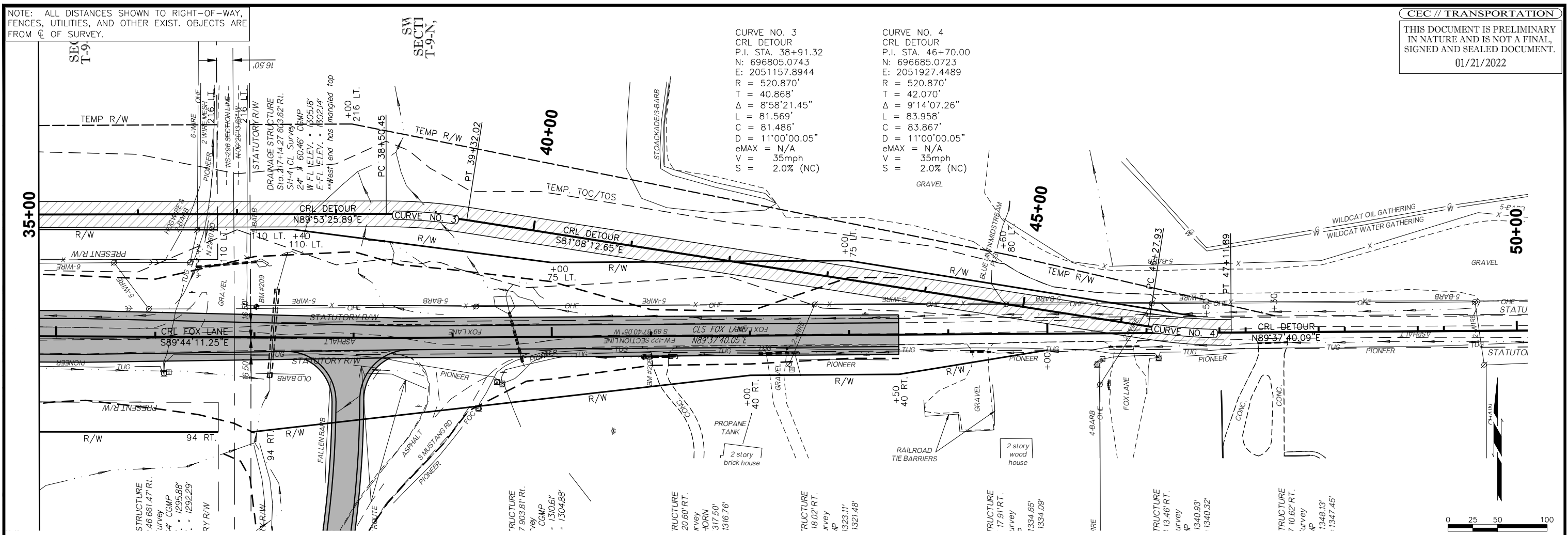
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CURVE NO. 3
 CRL DETOUR
 P.I. STA. 38+91.32
 N: 696805.0743
 E: 2051157.8944
 R = 520.870'
 T = 40.868'
 Δ = 8°58'21.45"
 L = 81.569'
 C = 81.486'
 D = 11°00'00.05"
 eMAX = N/A
 V = 35mph
 S = 2.0% (NC)

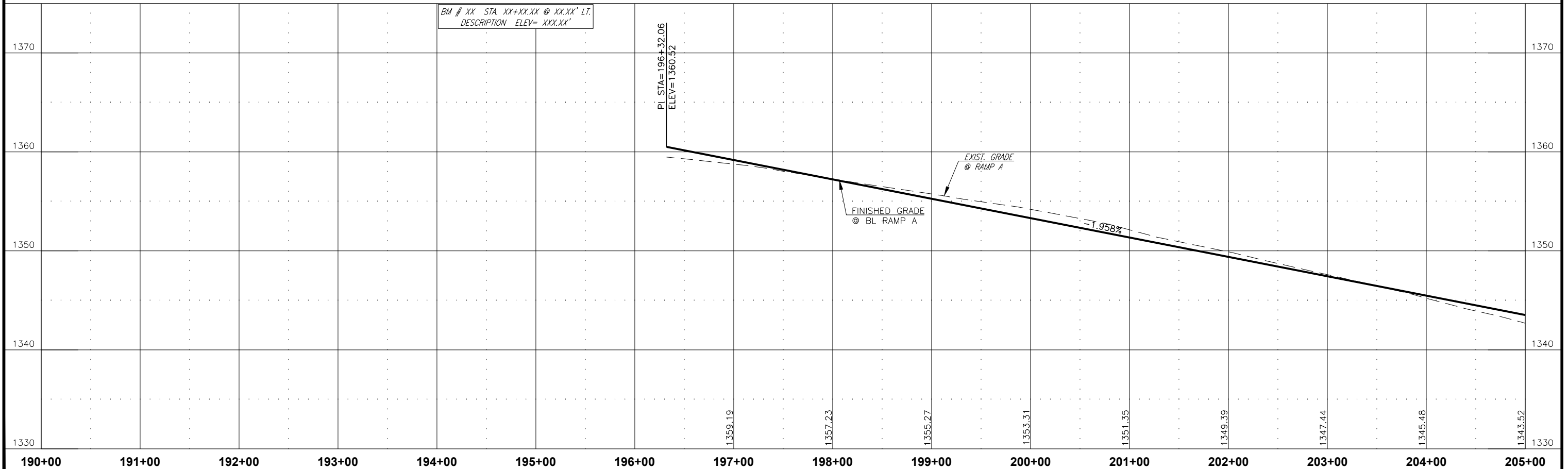
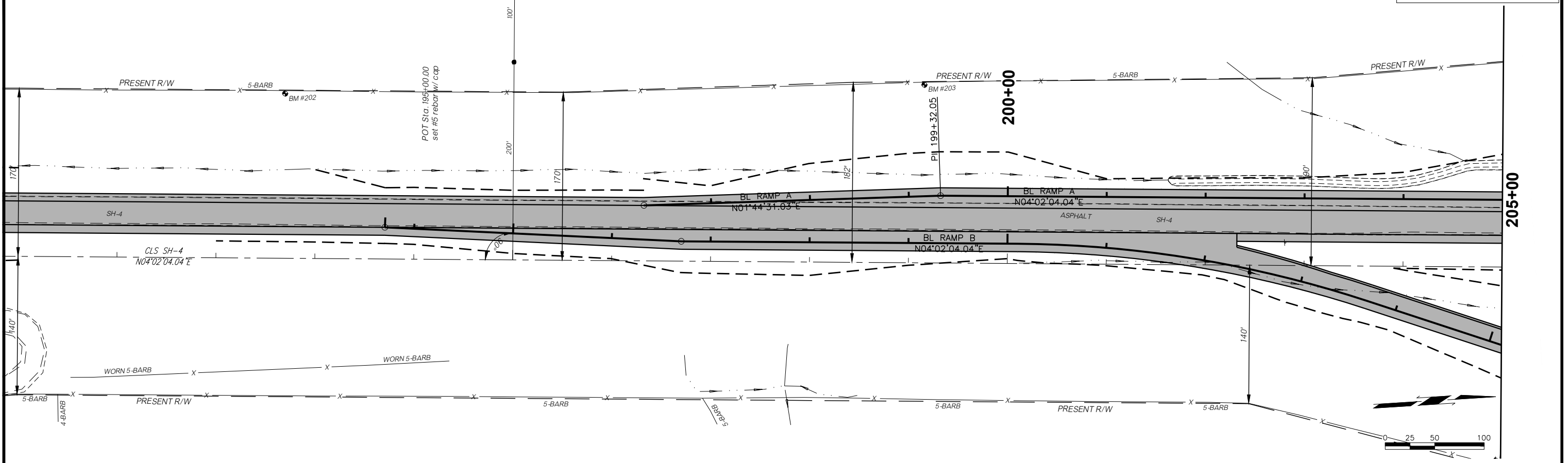
CURVE NO. 4
 CRL DETOUR
 P.I. STA. 46+70.00
 N: 696685.0723
 E: 2051927.4489
 R = 520.870'
 T = 42.070'
 Δ = 9°14'07.26"
 L = 83.958'
 C = 83.867'
 D = 11°00'00.05"
 eMAX = N/A
 V = 35mph
 S = 2.0% (NC)



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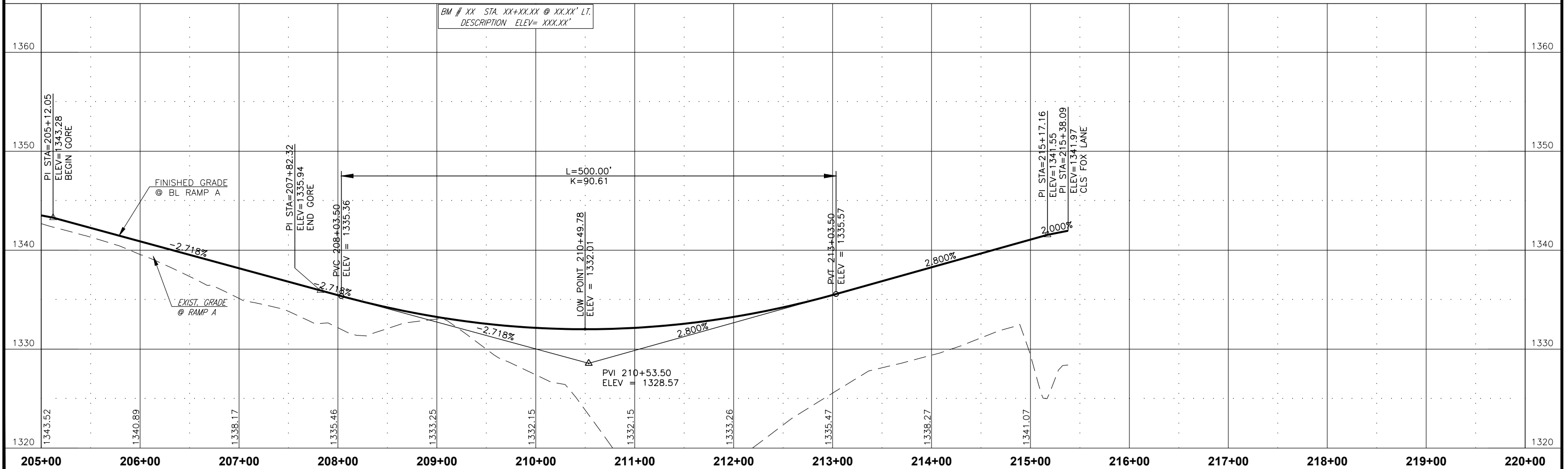
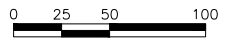
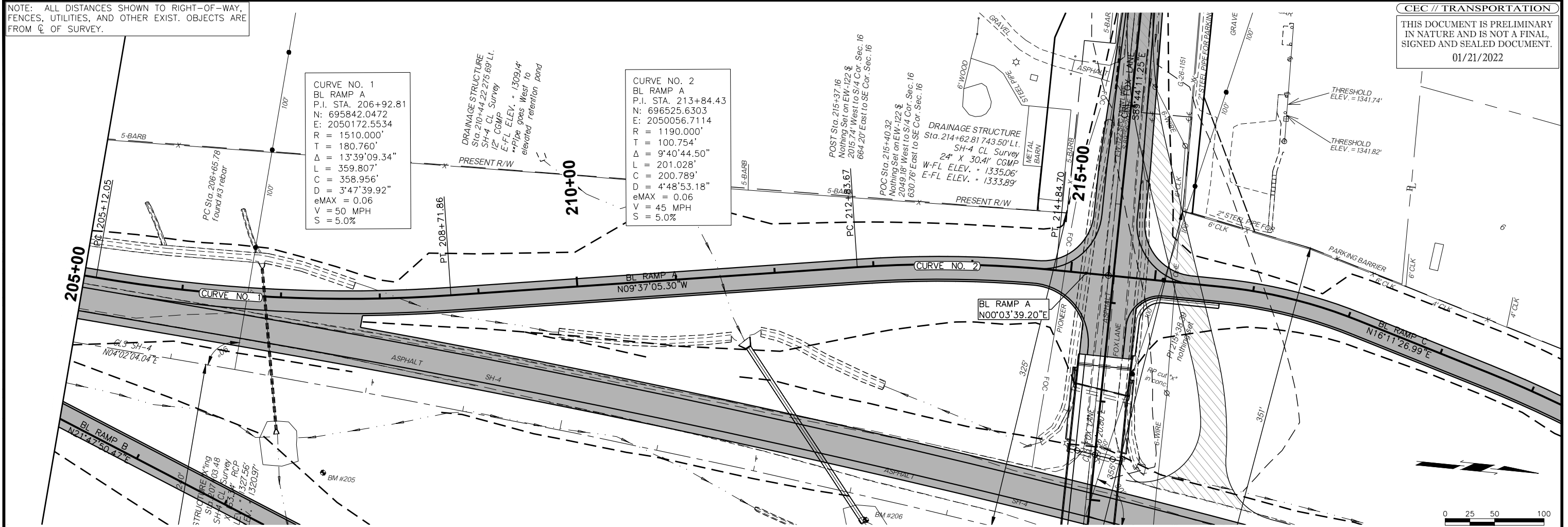


BM # XX STA. XX+XX.XX @ XX.XX' LT. DESCRIPTION ELEV= XXX.XX'

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.

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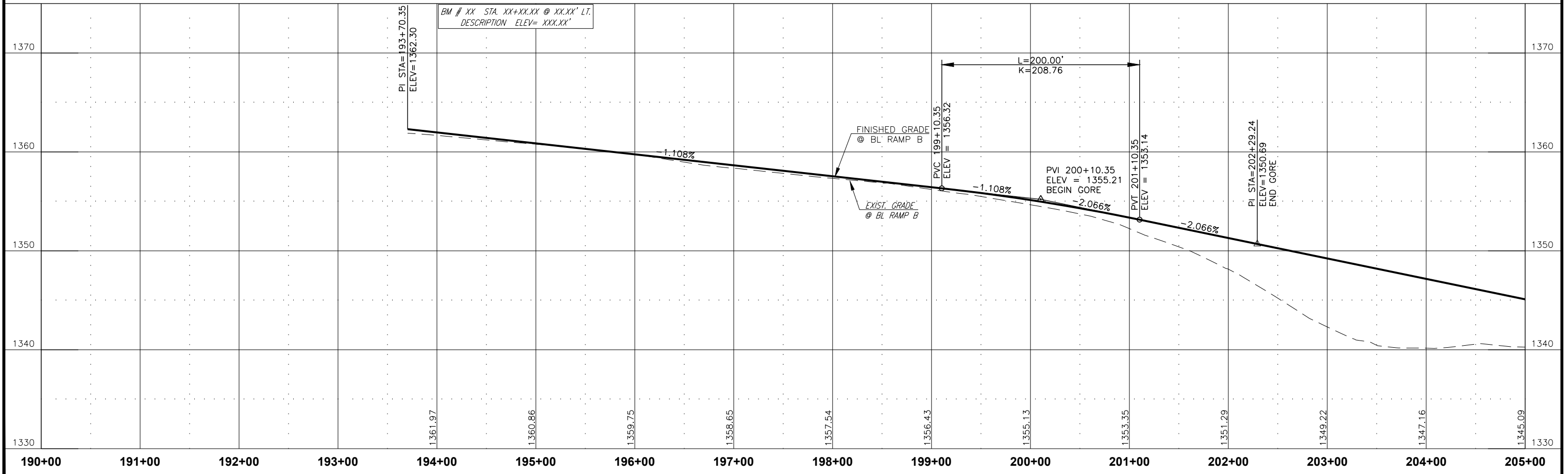
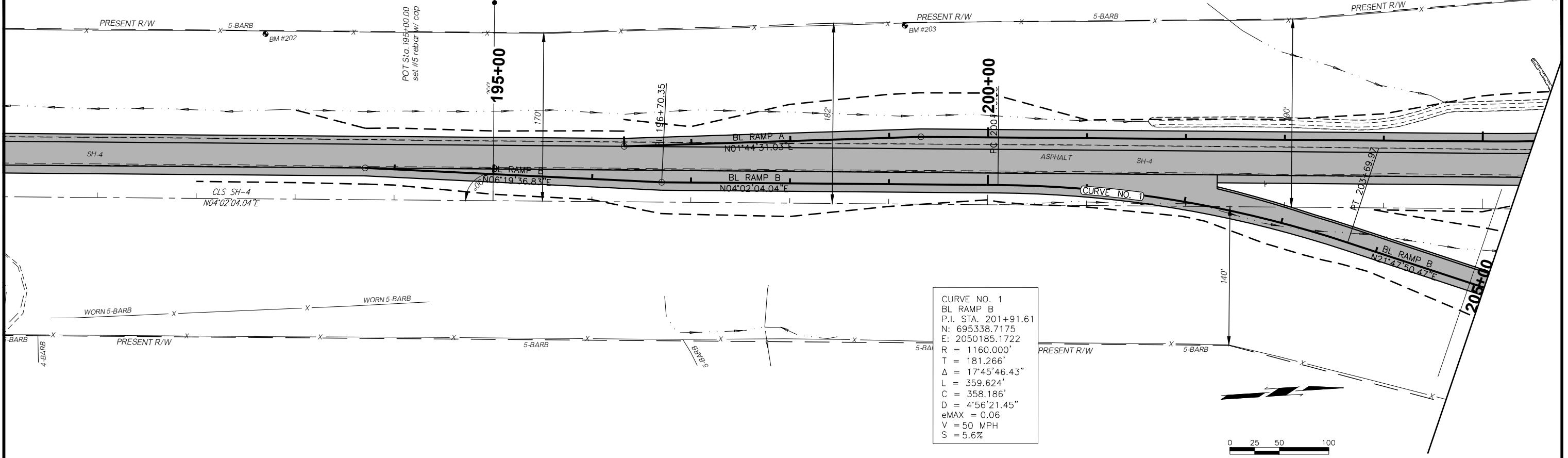


ALT. 3A INTERCHANGE FOX LANE OVER SH-4 P&P BL RAMP A

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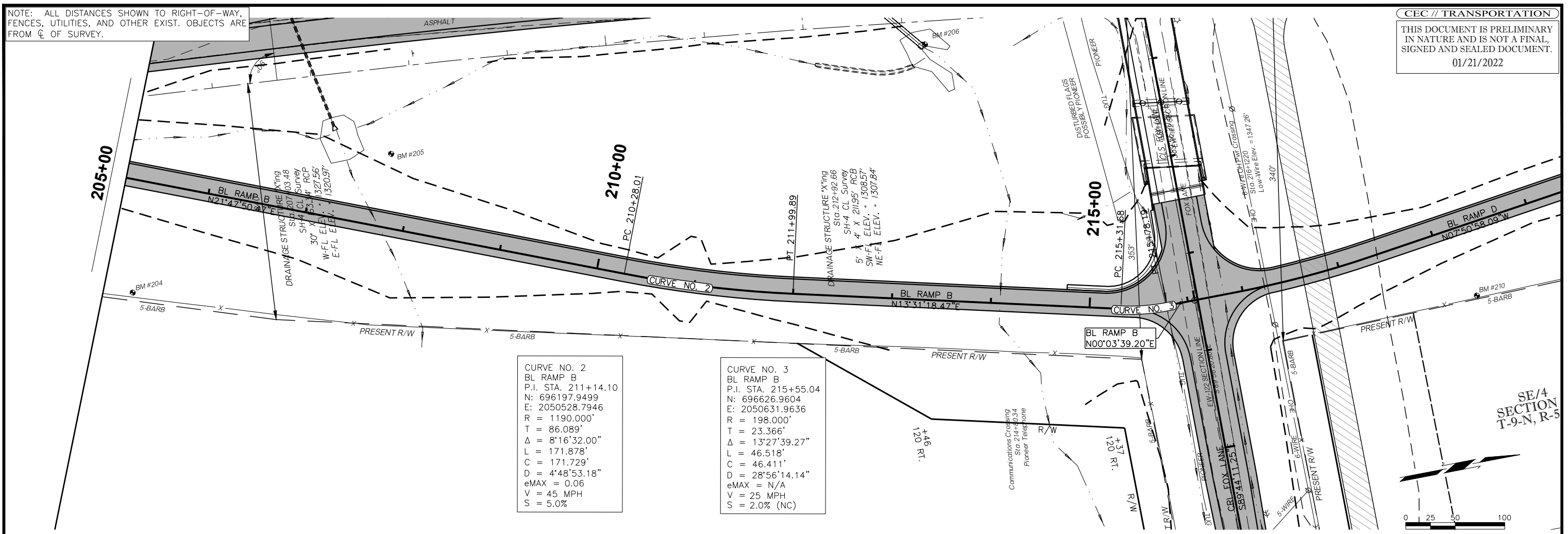


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 Save date: 1/20/2022 3:34:13 PM, JESSICA MILLER, Plot date: 1/20/2022 4:23:23 PM, MARCO PARRA, AutoCAD PDF (General Documentation).pc3

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.

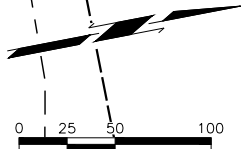
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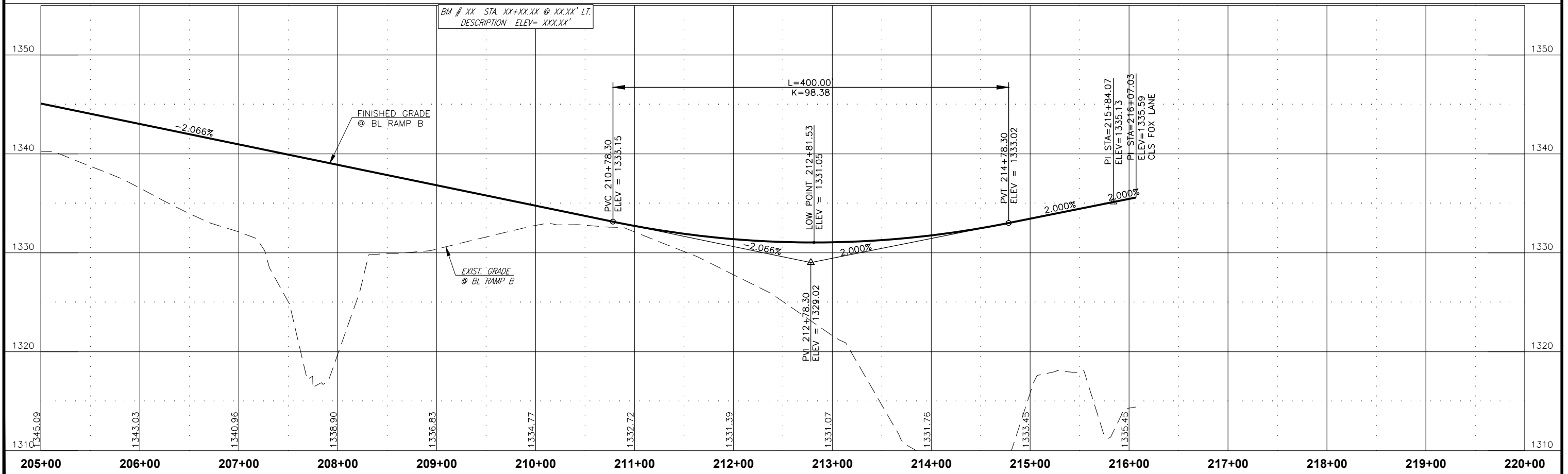


CURVE NO. 2
 BL RAMP B
 P.I. STA. 211+14.10
 N: 696197.9499
 E: 2050528.7946
 R = 1190.000'
 T = 86.089'
 Δ = 8°16'32.00"
 L = 171.878'
 C = 171.729'
 D = 4'48"53.18"
 eMAX = 0.06
 V = 45 MPH
 S = 5.0%

CURVE NO. 3
 BL RAMP B
 P.I. STA. 215+55.04
 N: 696626.9604
 E: 2050631.9636
 R = 198.000'
 T = 23.366'
 Δ = 13°27'39.27"
 L = 46.518'
 C = 46.411'
 D = 28'56"14.14"
 eMAX = N/A
 V = 25 MPH
 S = 2.0% (NC)



SE/4 SECTION T-9-N, R-5



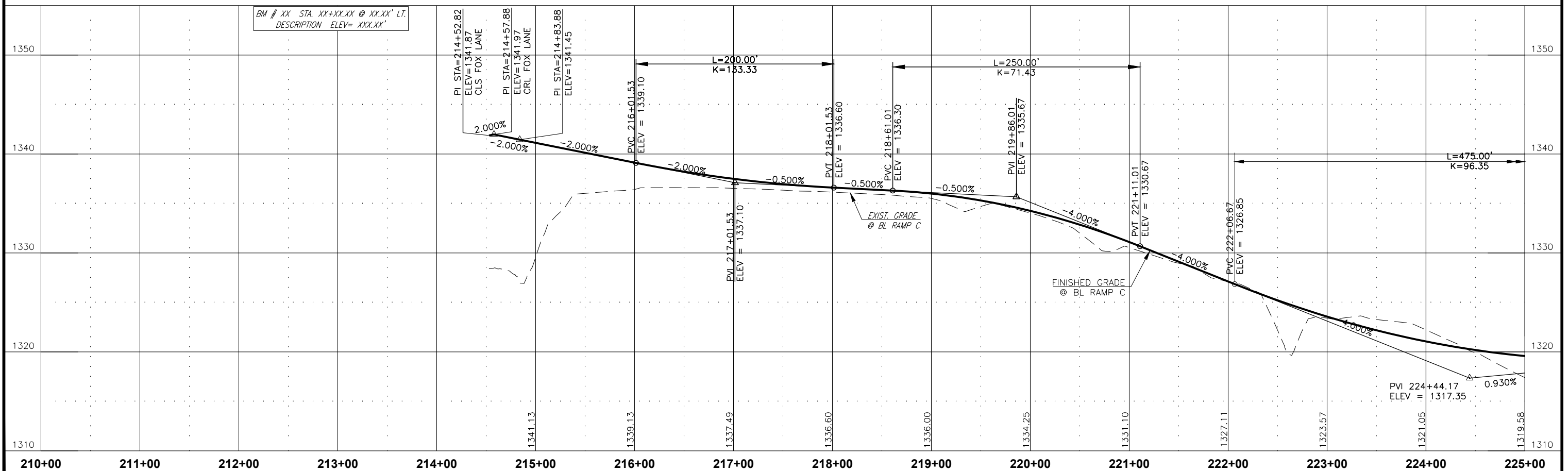
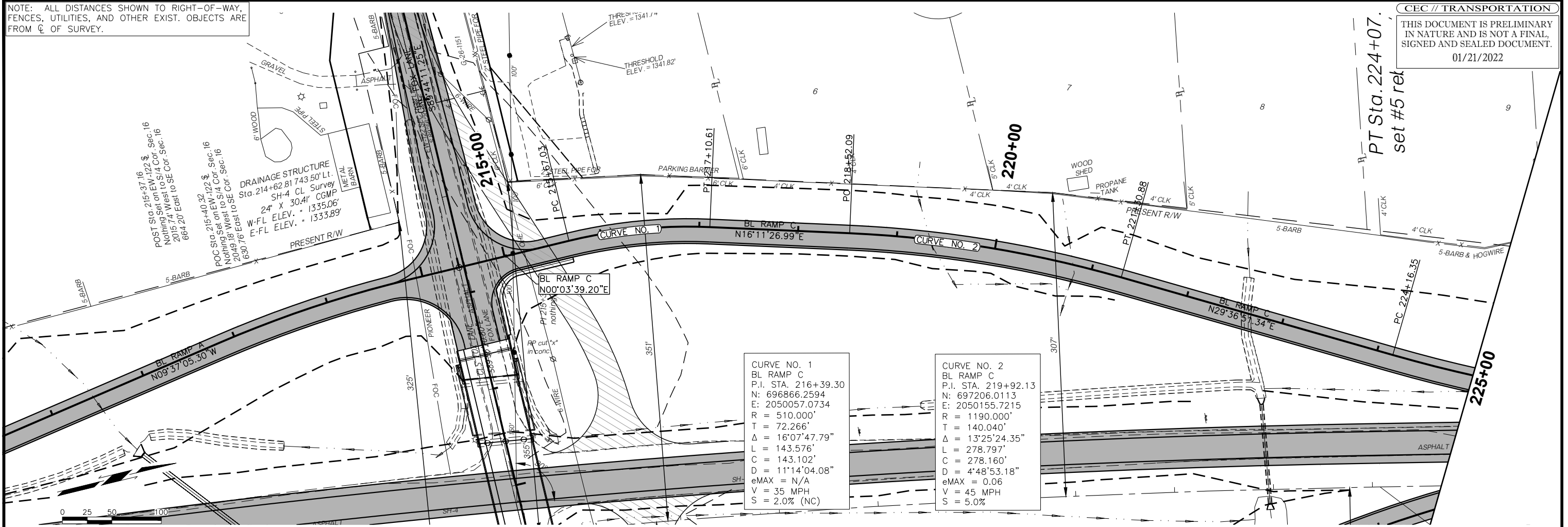
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PT Sta. 224+07.
set #5 rel

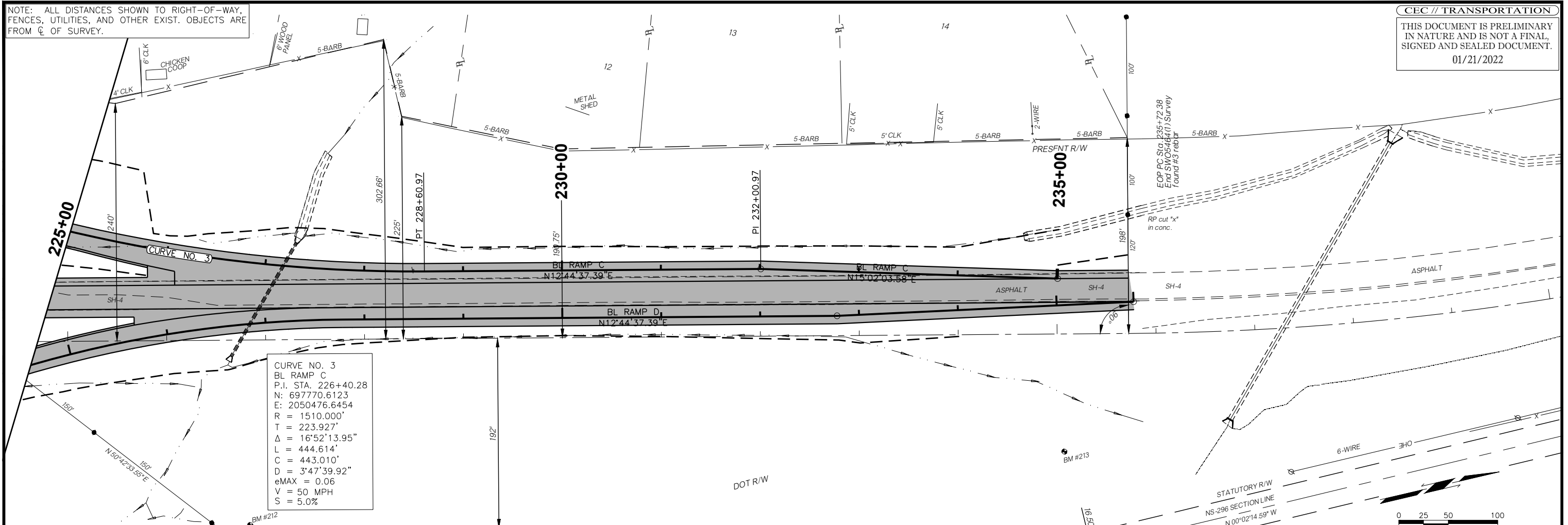


NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM ϕ OF SURVEY.

CEC // TRANSPORTATION

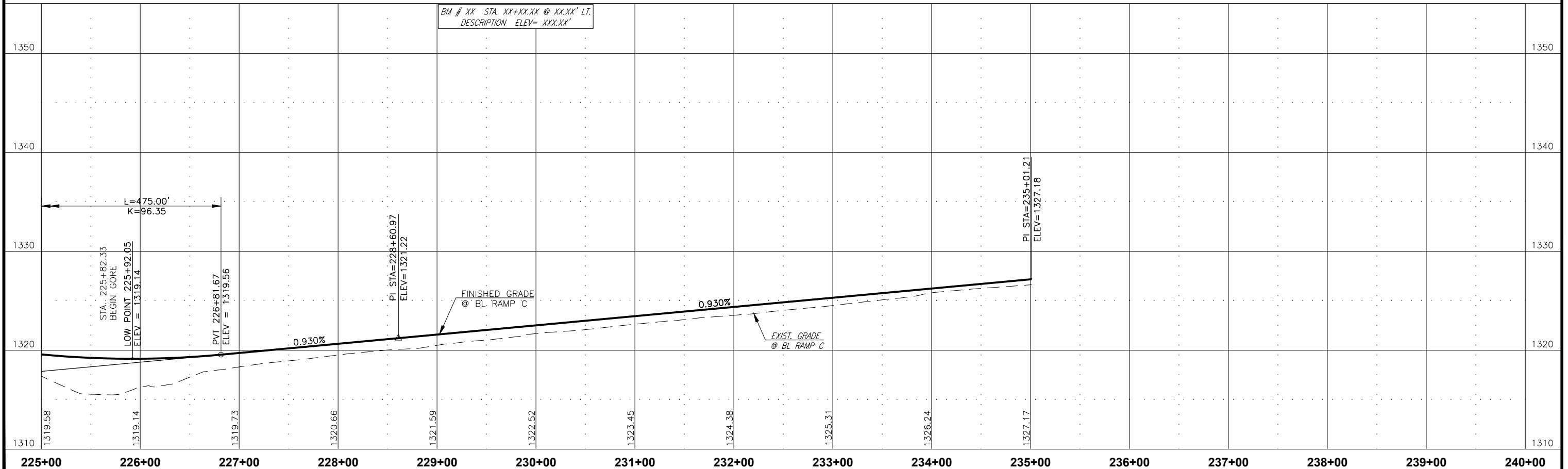
THIS DOCUMENT IS PRELIMINARY IN NATURE AND IS NOT A FINAL, SIGNED AND SEALED DOCUMENT.

01/21/2022



CURVE NO. 3
 BL RAMP C
 P.I. STA. 226+40.28
 N: 697770.6123
 E: 2050476.6454
 R = 1510.000'
 T = 223.927'
 Δ = 16°52'13.95"
 L = 444.614'
 C = 443.010'
 D = 3'47'39.92"
 eMAX = 0.06
 V = 50 MPH
 S = 5.0%

BM # XX STA. XX+XX.XX @ XX.XX' LT.
 DESCRIPTION ELEV= XXX.XX'



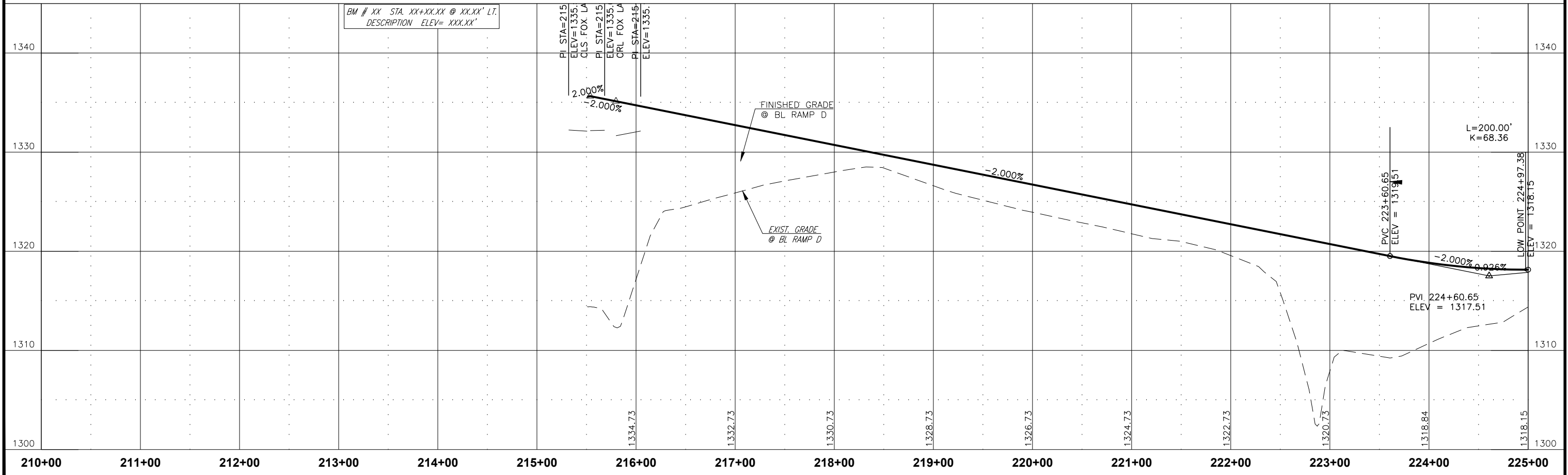
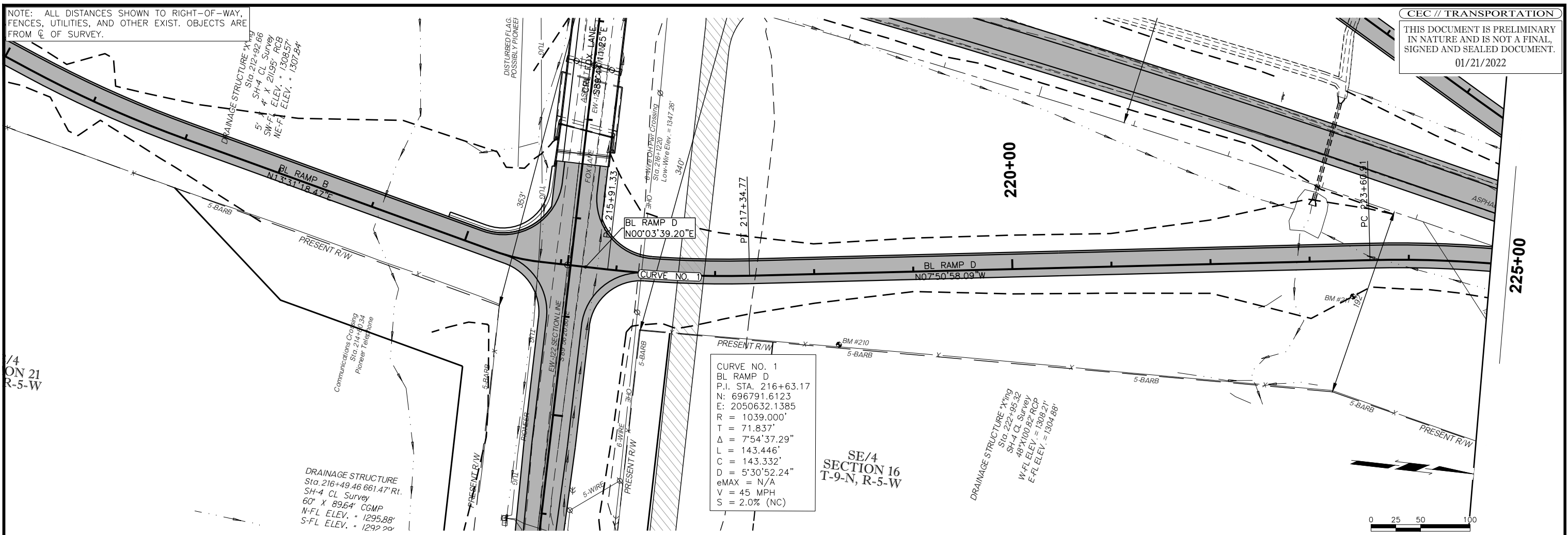
225+00 226+00 227+00 228+00 229+00 230+00 231+00 232+00 233+00 234+00 235+00 236+00 237+00 238+00 239+00 240+00

ALT. 3A INTERCHANGE FOX LANE OVER SH-4 P&P BL RAMP C

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.

THIS DOCUMENT IS PRELIMINARY IN NATURE AND IS NOT A FINAL, SIGNED AND SEALED DOCUMENT.

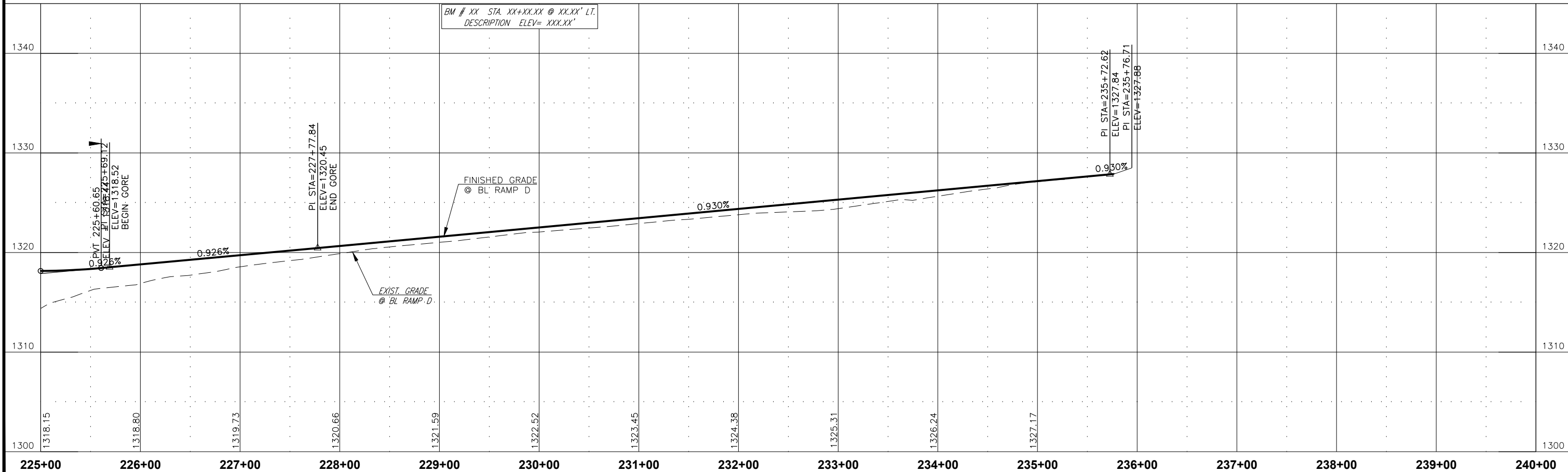
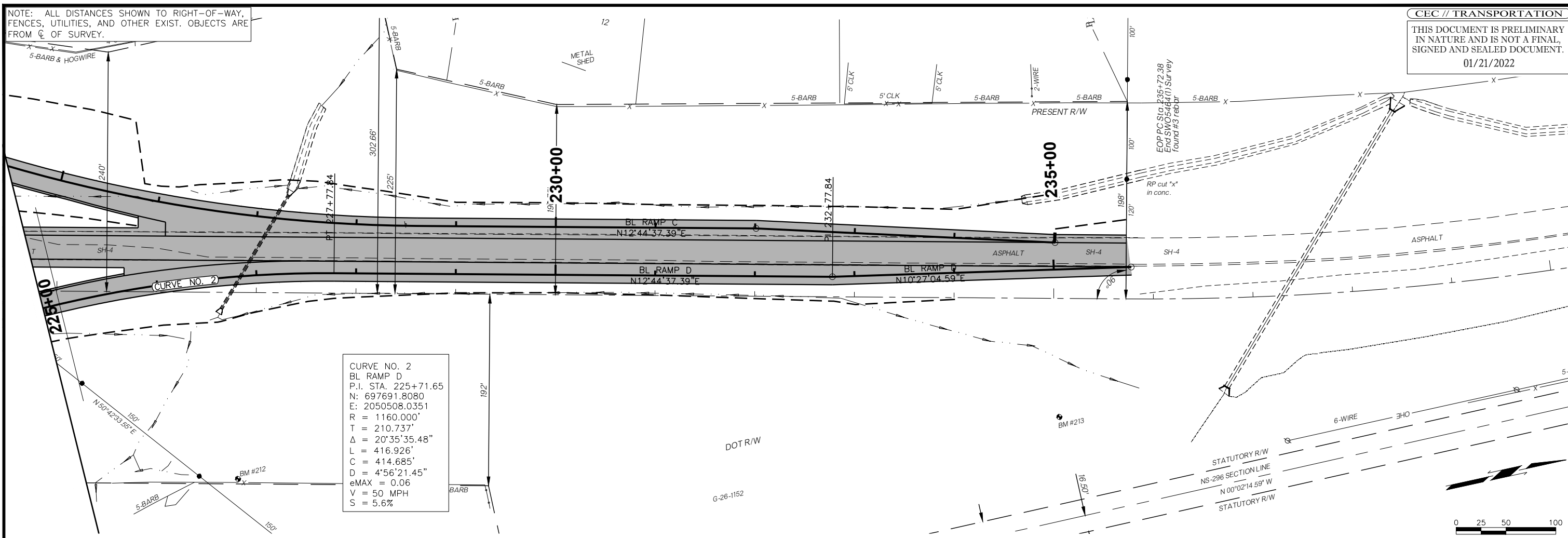
01/21/2022



NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C. OF SURVEY.

THIS DOCUMENT IS PRELIMINARY IN NATURE AND IS NOT A FINAL, SIGNED AND SEALED DOCUMENT.

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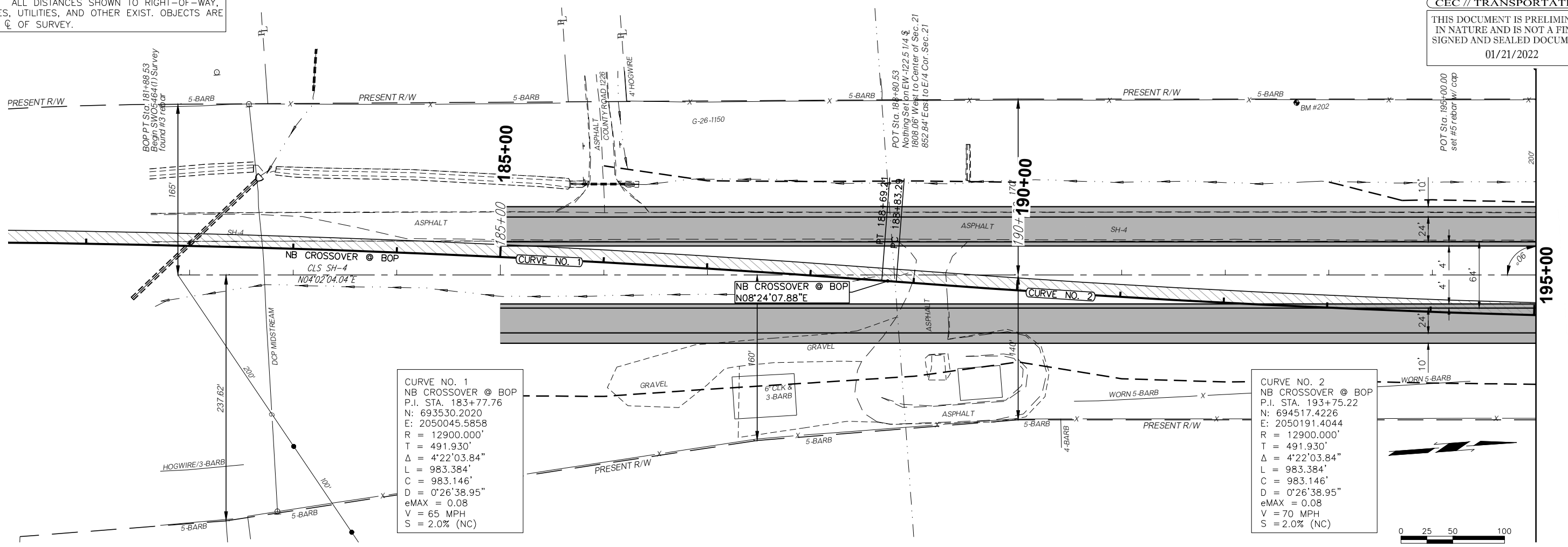


ALT. 3A INTERCHANGE FOX LANE OVER SH-4 P&P BL RAMP D

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM ϕ OF SURVEY.

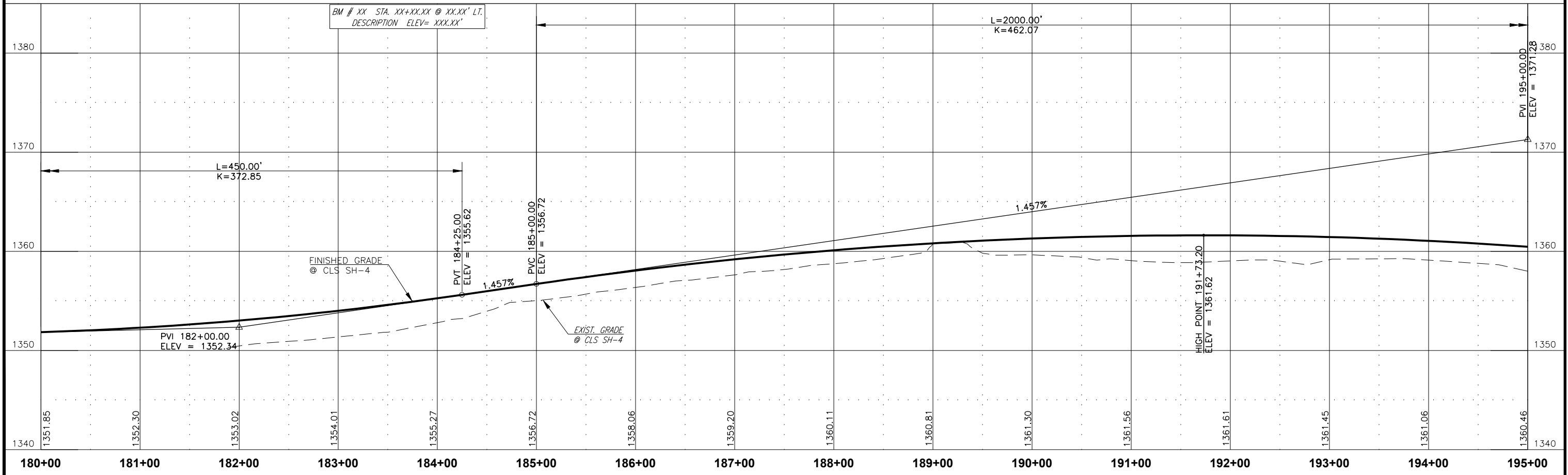
THIS DOCUMENT IS PRELIMINARY IN NATURE AND IS NOT A FINAL, SIGNED AND SEALED DOCUMENT.

01/21/2022



CURVE NO. 1
 NB CROSSOVER @ BOP
 P.I. STA. 183+77.76
 N: 693530.2020
 E: 2050045.5858
 R = 12900.000'
 T = 491.930'
 $\Delta = 4'22'03.84''$
 L = 983.384'
 C = 983.146'
 D = 0'26'38.95"
 eMAX = 0.08
 V = 65 MPH
 S = 2.0% (NC)

CURVE NO. 2
 NB CROSSOVER @ BOP
 P.I. STA. 193+75.22
 N: 694517.4226
 E: 2050191.4044
 R = 12900.000'
 T = 491.930'
 $\Delta = 4'22'03.84''$
 L = 983.384'
 C = 983.146'
 D = 0'26'38.95"
 eMAX = 0.08
 V = 70 MPH
 S = 2.0% (NC)

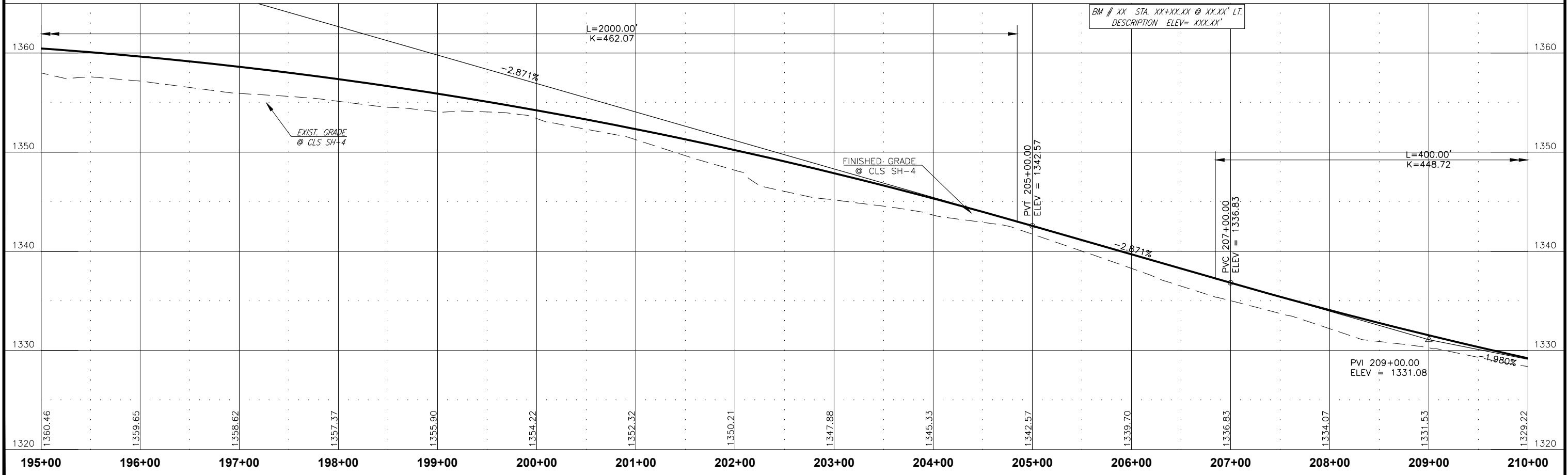
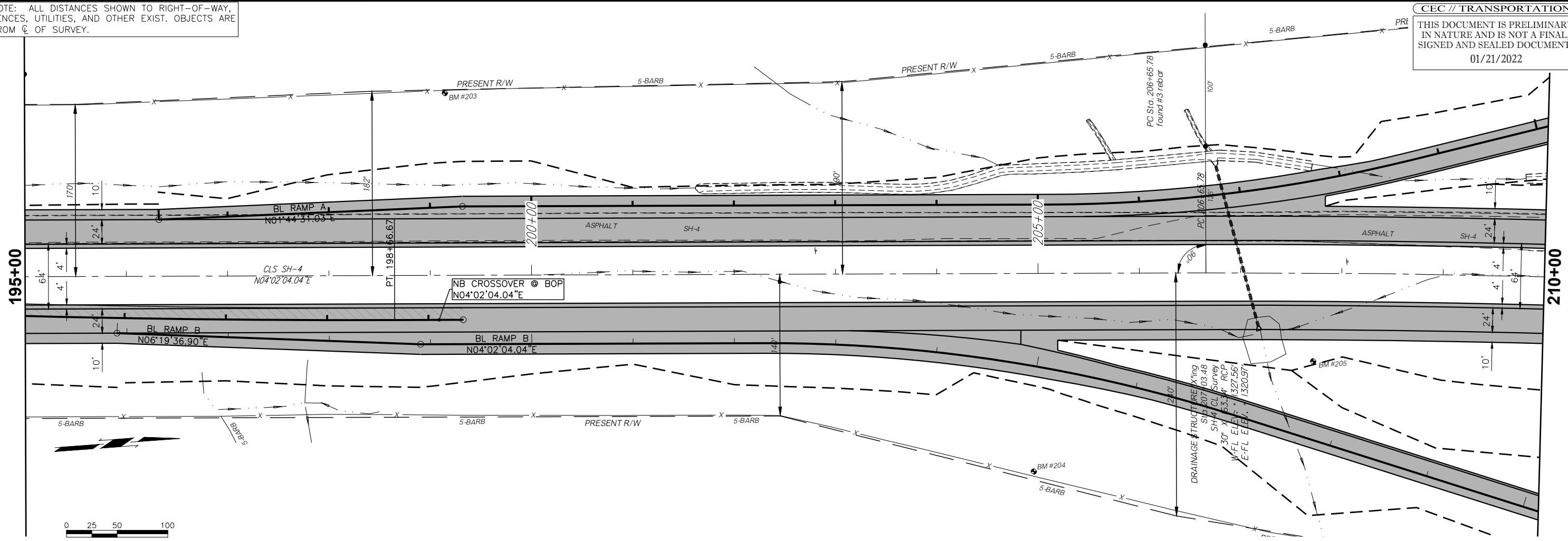


ALT. 3A2 INTERCHANGE FOX LANE OVER SH-4 EXISTING ALIGNMENT

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.

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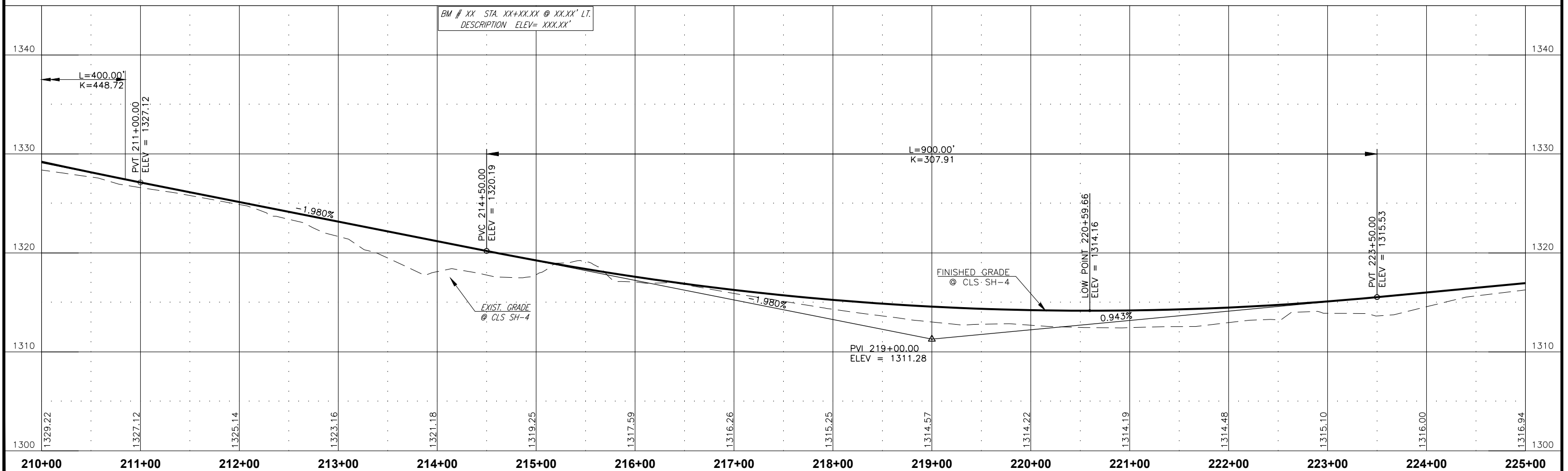
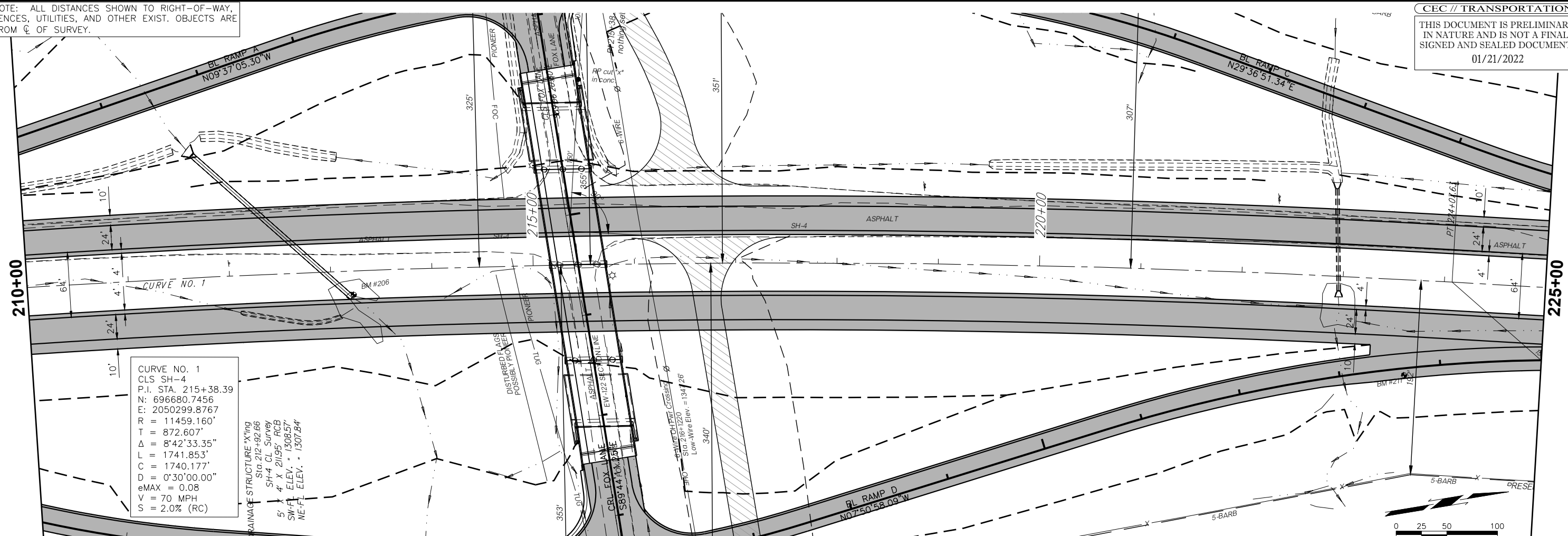


BM # XX STA. XX+XX.XX @ XX.XX' LT.
DESCRIPTION ELEV= XXX.XX'

ALT. 3A2 INTERCHANGE FOX LANE OVER SH-4 EXISTING ALIGNMENT

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.

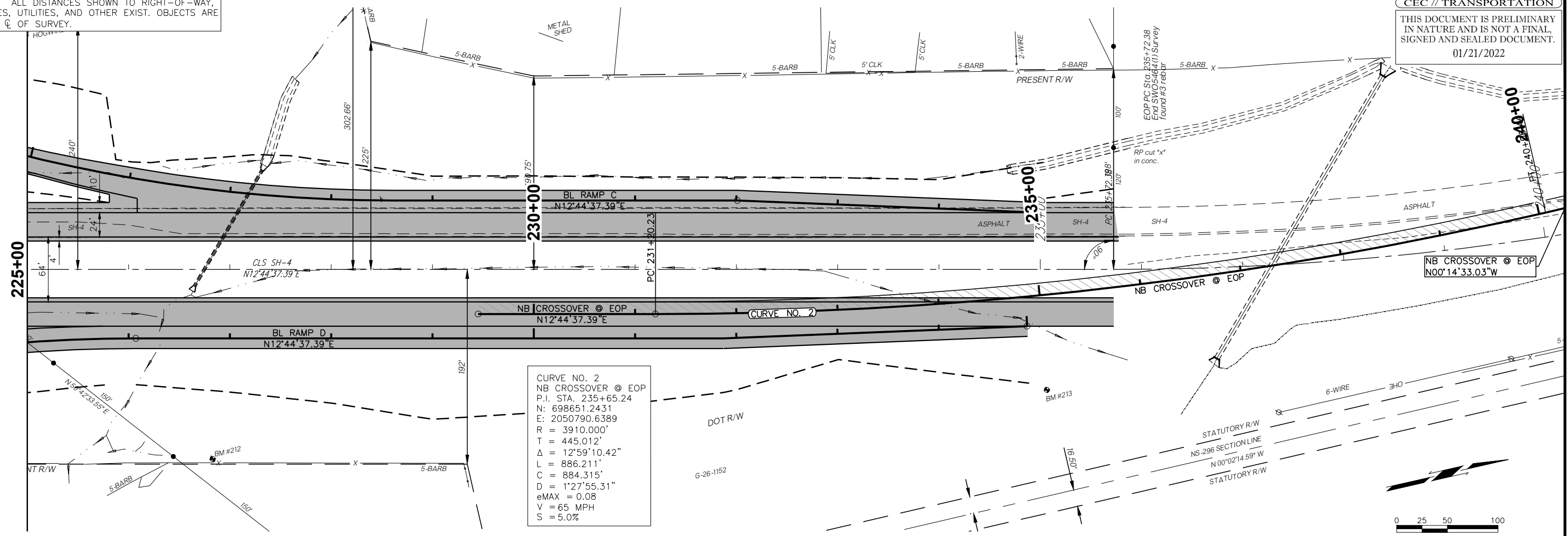
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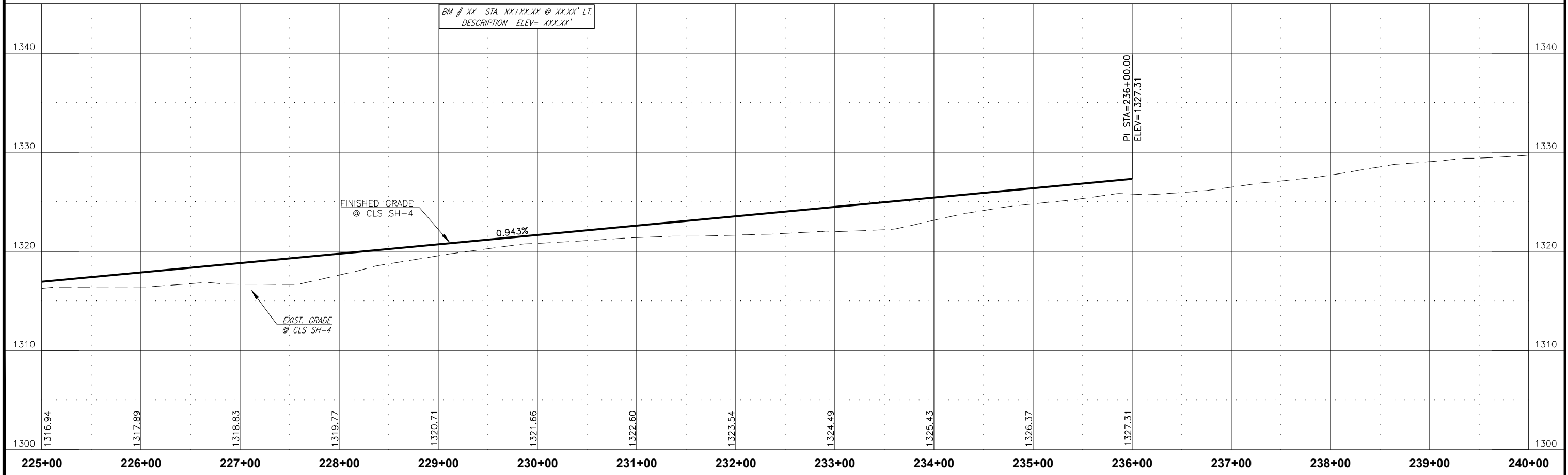
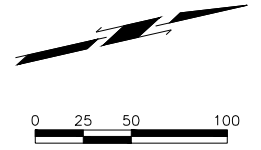
NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.

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CURVE NO. 2
 NB CROSSOVER @ EOP
 P.I. STA. 235+65.24
 N: 698651.2431
 E: 2050790.6389
 R = 3910.000'
 T = 445.012'
 Δ = 12°59'10.42"
 L = 886.211'
 C = 884.315'
 D = 1'27"55.31"
 eMAX = 0.08
 V = 65 MPH
 S = 5.0%



BM # XX STA. XX+XX.XX @ XX.XX' LT.
 DESCRIPTION ELEV= XXX.XX'

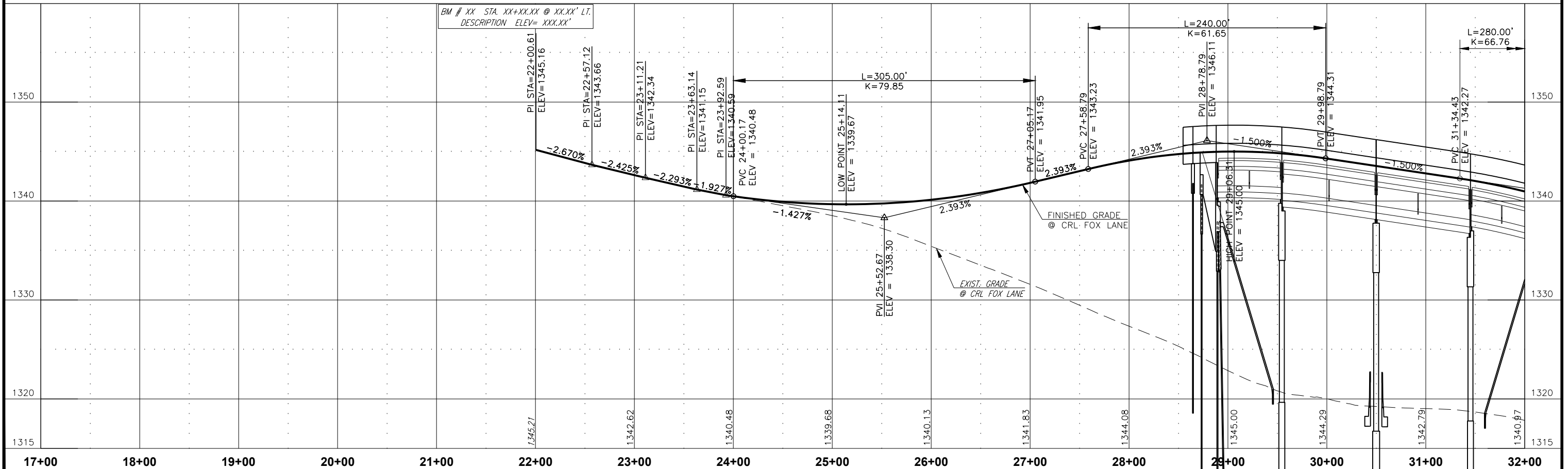
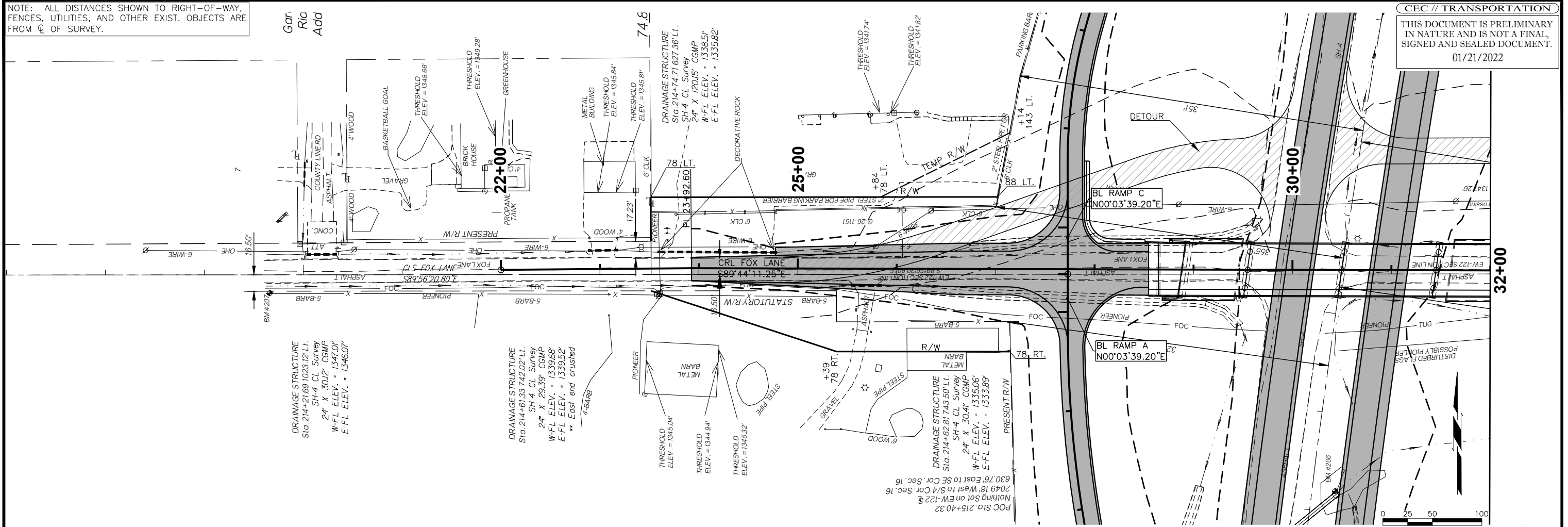
PI STA=236+00.00
 ELEV=1327.31

ALT. 3A2 INTERCHANGE FOX LANE OVER SH-4 EXISTING ALIGNMENT

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM ϕ OF SURVEY.

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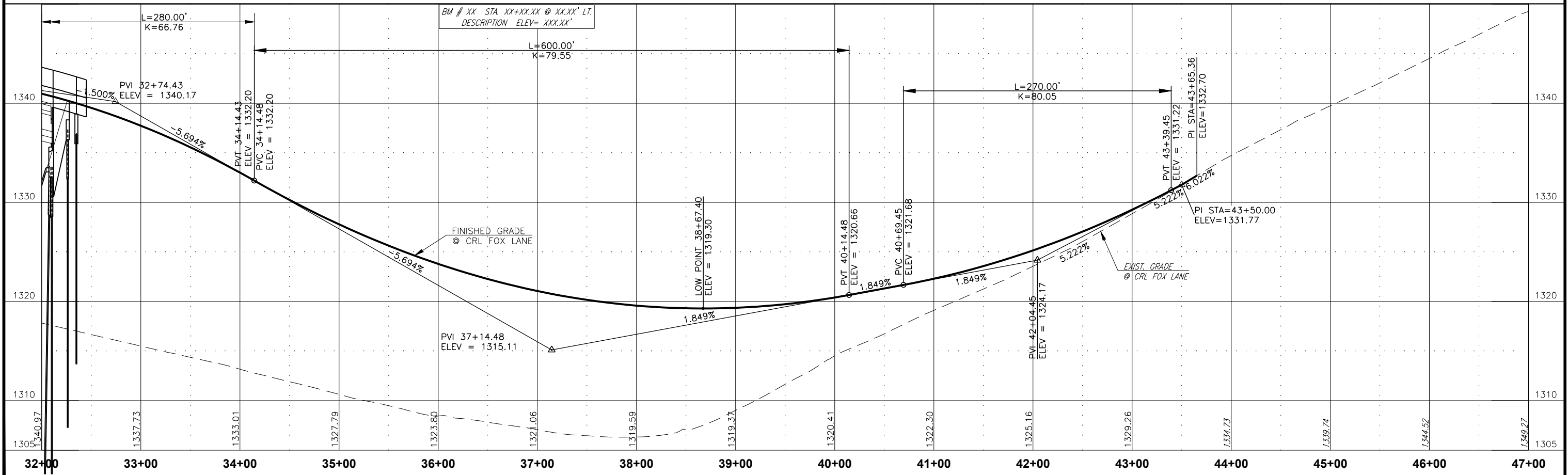
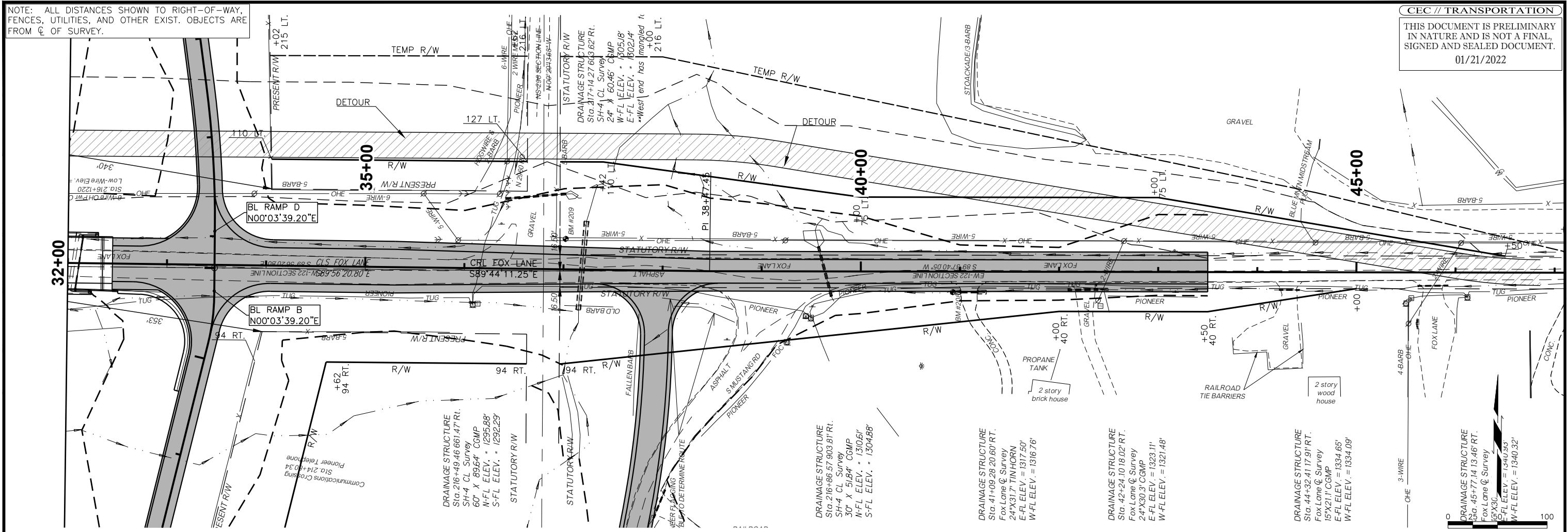


ALT. 3A2 INTERCHANGE FOX LANE OVER SH-4 P&P CRL FOX LANE

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NE/4 SECTION 21 T-9-N, R-5-W

CURVE NO. 1
CRL MUSTANG RD. SOUTH
P.I. STA. 13+46.49
N: 696526.1771
E: 2051077.9535
R = 1039.000'
T = 90.729'
Δ = 9°58'52.21"
L = 180.998'
C = 180.769'
D = 5°30'52.24"
eMAX = N/A
V = 45mph
S = 2.0% (NC)

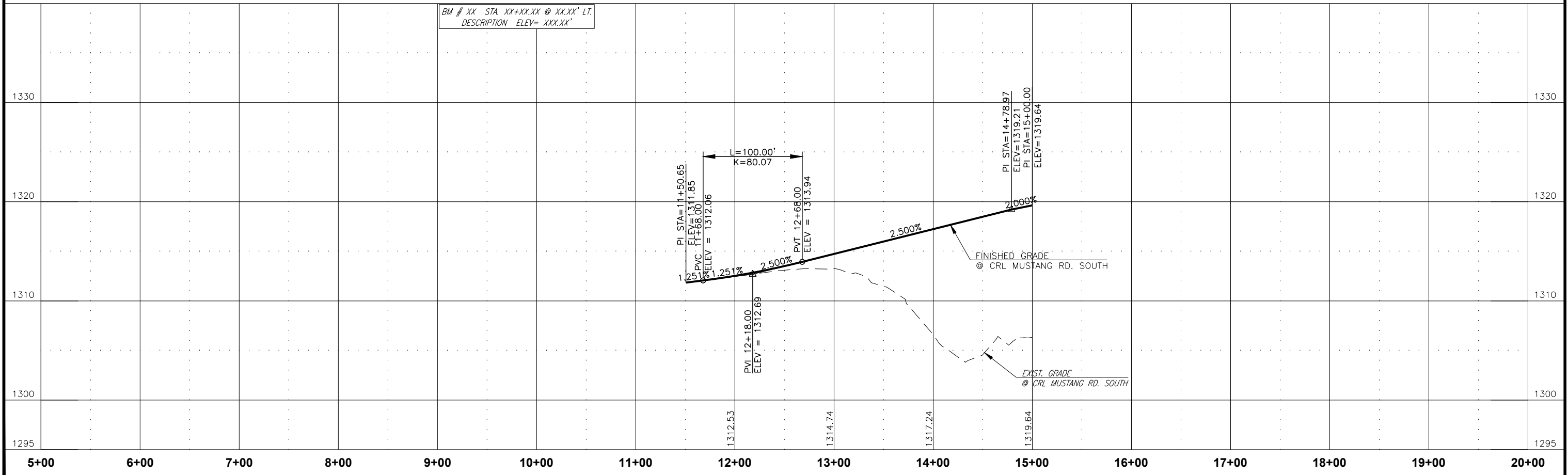
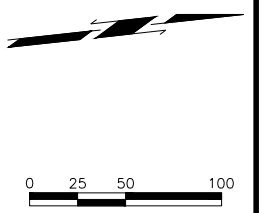
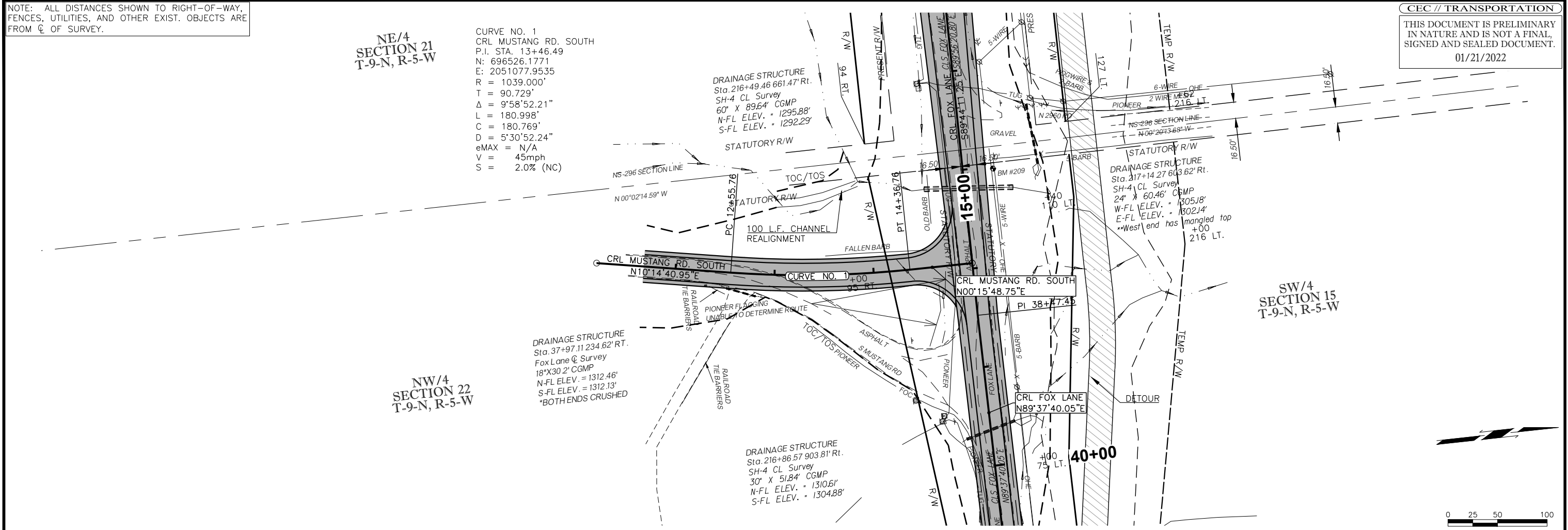
NW/4 SECTION 22 T-9-N, R-5-W

DRAINAGE STRUCTURE
Sta. 37+97.11 234.62' RT.
Fox Lane @ Survey
18" X 30" CGMP
N-FL ELEV. = 1312.46'
S-FL ELEV. = 1312.13'
*BOTH ENDS CRUSHED

DRAINAGE STRUCTURE
Sta. 216+49.46 661.47' RT.
SH-4 CL Survey
60" X 89.64' CGMP
N-FL ELEV. = 1295.88'
S-FL ELEV. = 1292.29'

DRAINAGE STRUCTURE
Sta. 217+14.27 603.62' RT.
SH-4 CL Survey
24" X 60.46' CGMP
W-FL ELEV. = 1305.18'
E-FL ELEV. = 1302.14'
*West end has mangled top +00 216 LT.

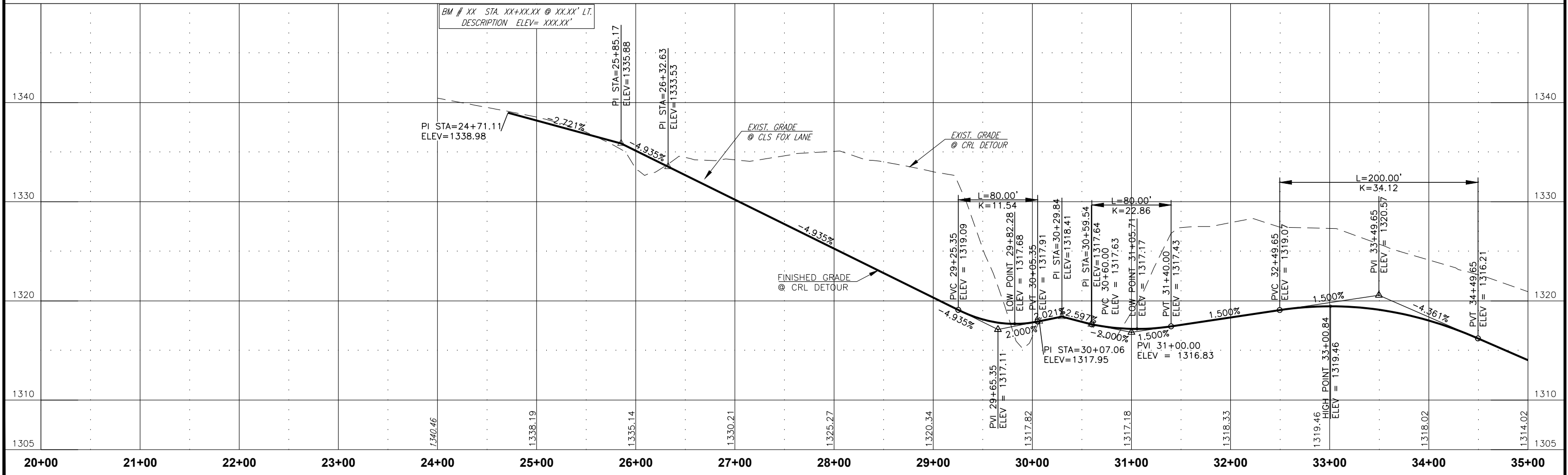
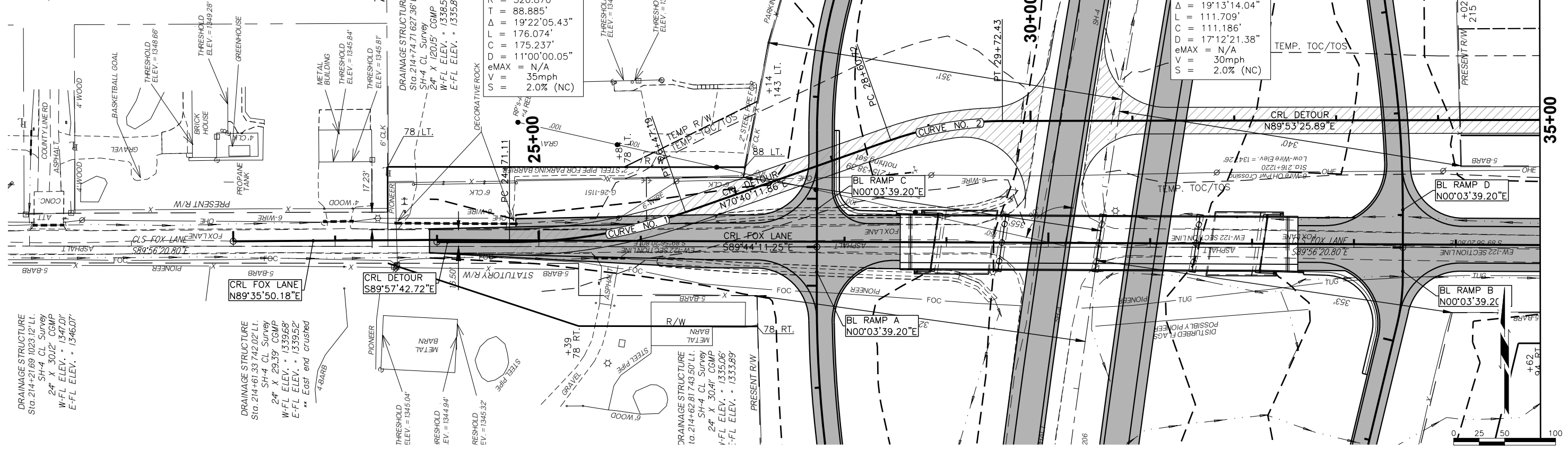
DRAINAGE STRUCTURE
Sta. 216+86.57 903.81' RT.
SH-4 CL Survey
30" X 51.84' CGMP
N-FL ELEV. = 1310.61'
S-FL ELEV. = 1304.88'



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Garden Ridge Addition



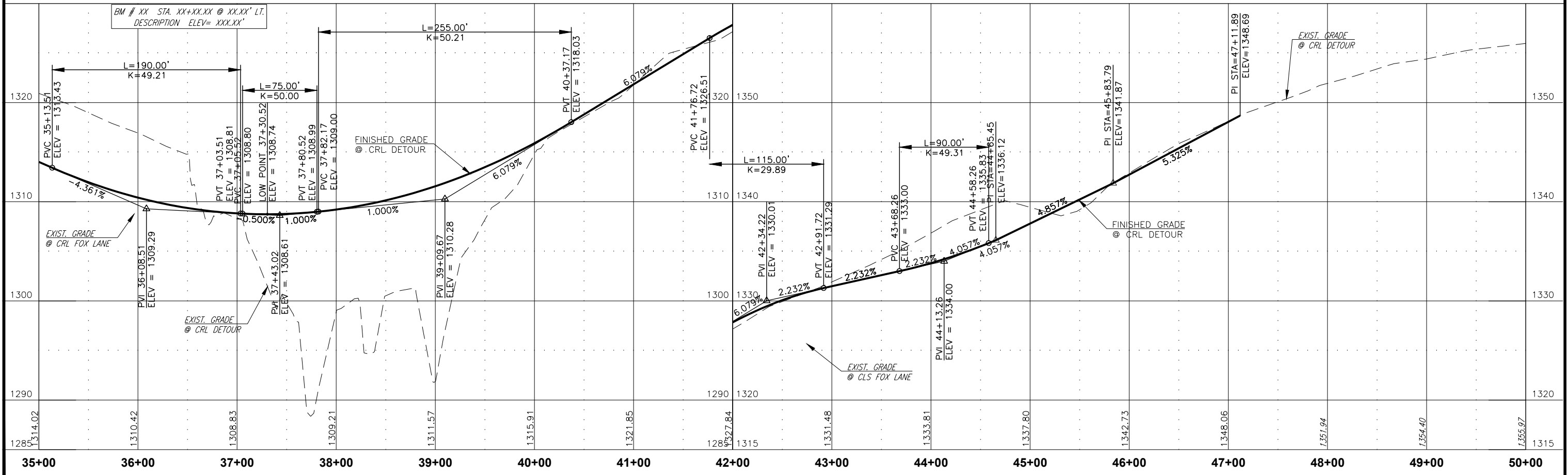
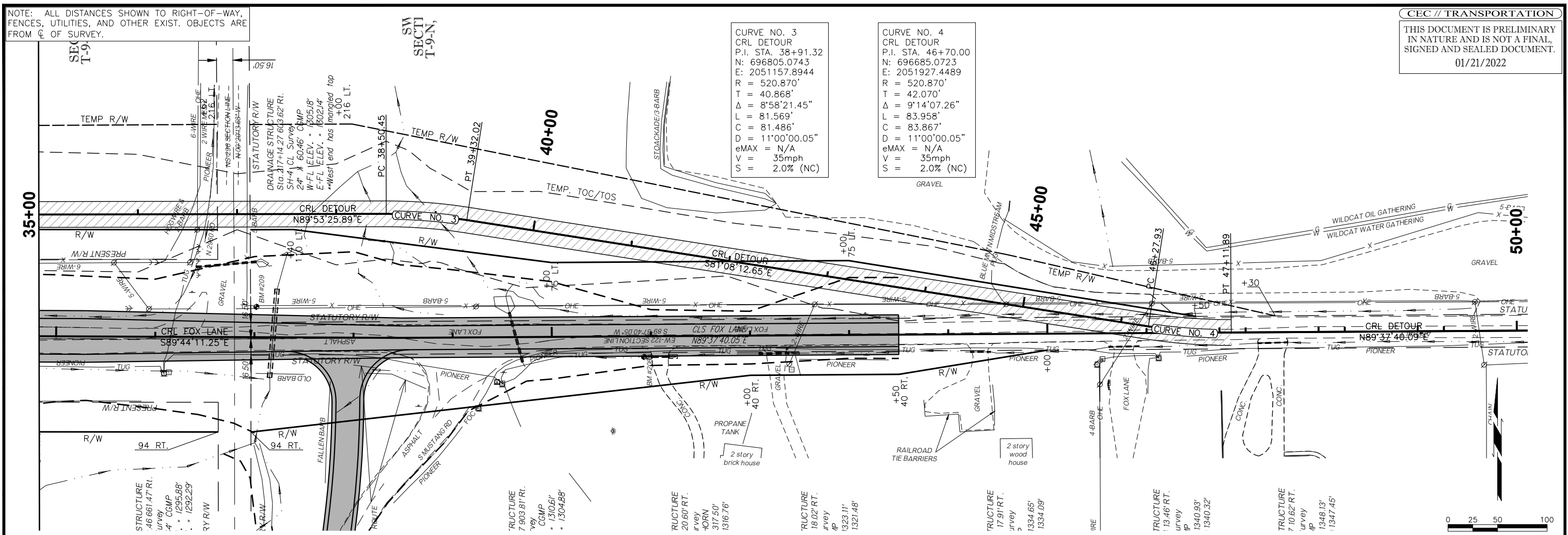
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01/21/2022

CURVE NO. 3
 CRL DETOUR
 P.I. STA. 38+91.32
 N: 696805.0743
 E: 2051157.8944
 R = 520.870'
 T = 40.868'
 Δ = 8°58'21.45"
 L = 81.569'
 C = 81.486'
 D = 11°00'00.05"
 eMAX = N/A
 V = 35mph
 S = 2.0% (NC)

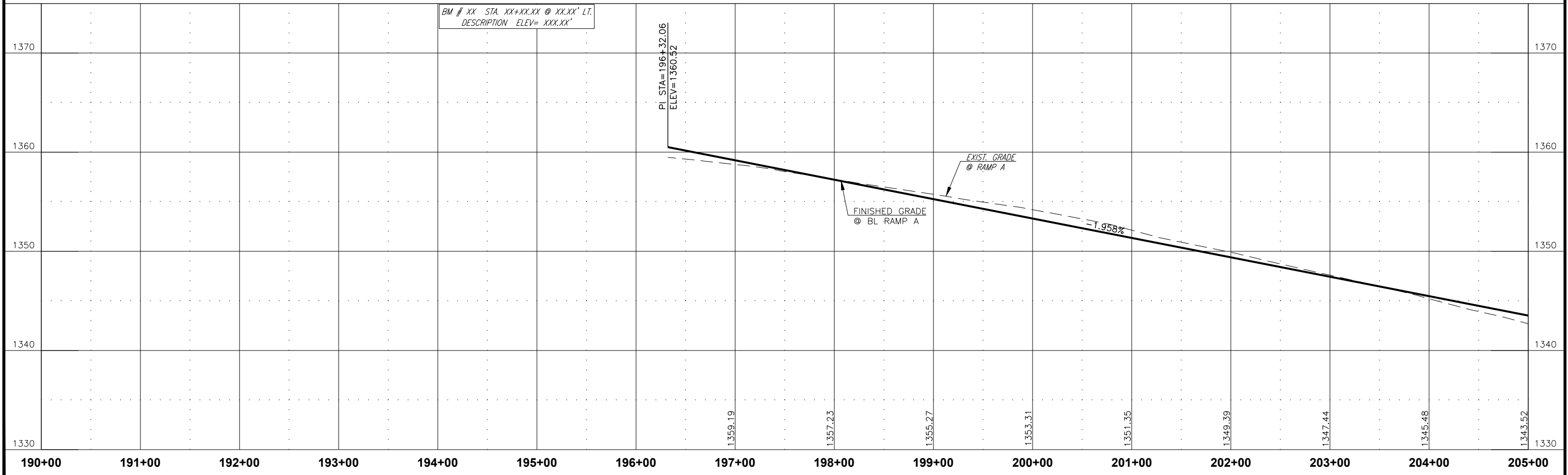
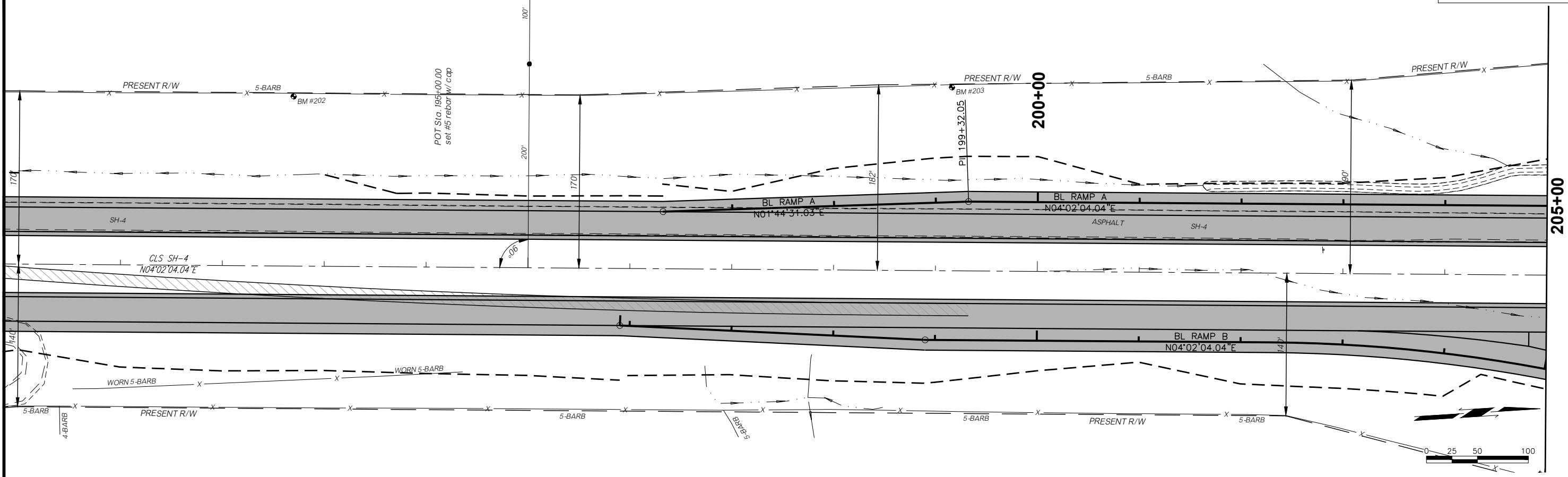
CURVE NO. 4
 CRL DETOUR
 P.I. STA. 46+70.00
 N: 696685.0723
 E: 2051927.4489
 R = 520.870'
 T = 42.070'
 Δ = 9°14'07.26"
 L = 83.958'
 C = 83.867'
 D = 11°00'00.05"
 eMAX = N/A
 V = 35mph
 S = 2.0% (NC)



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01/21/2022



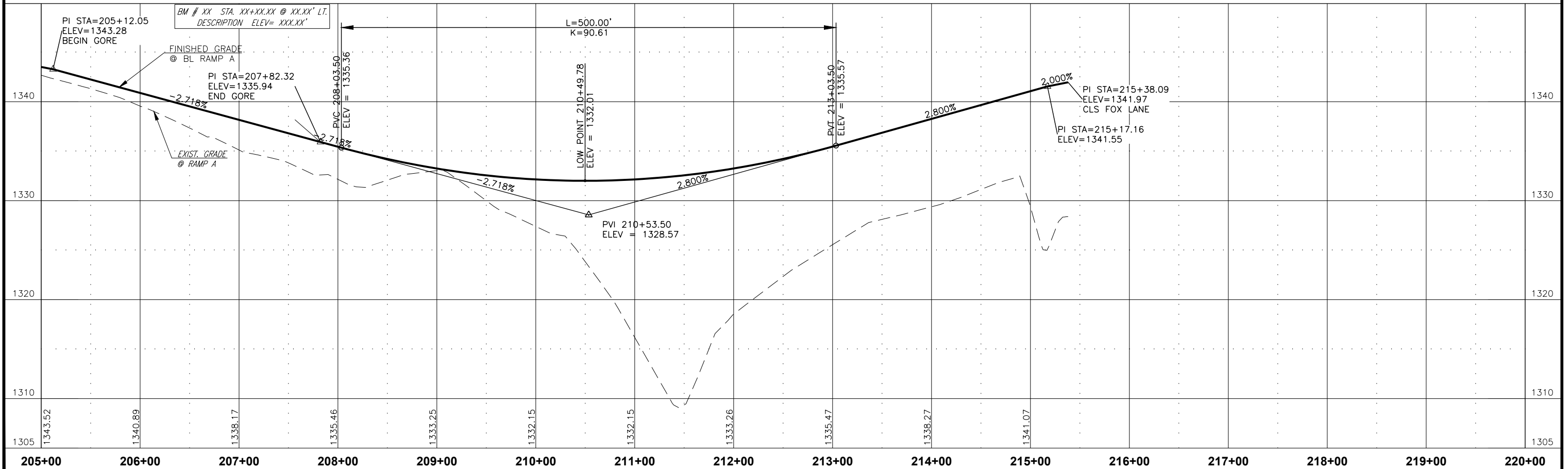
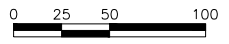
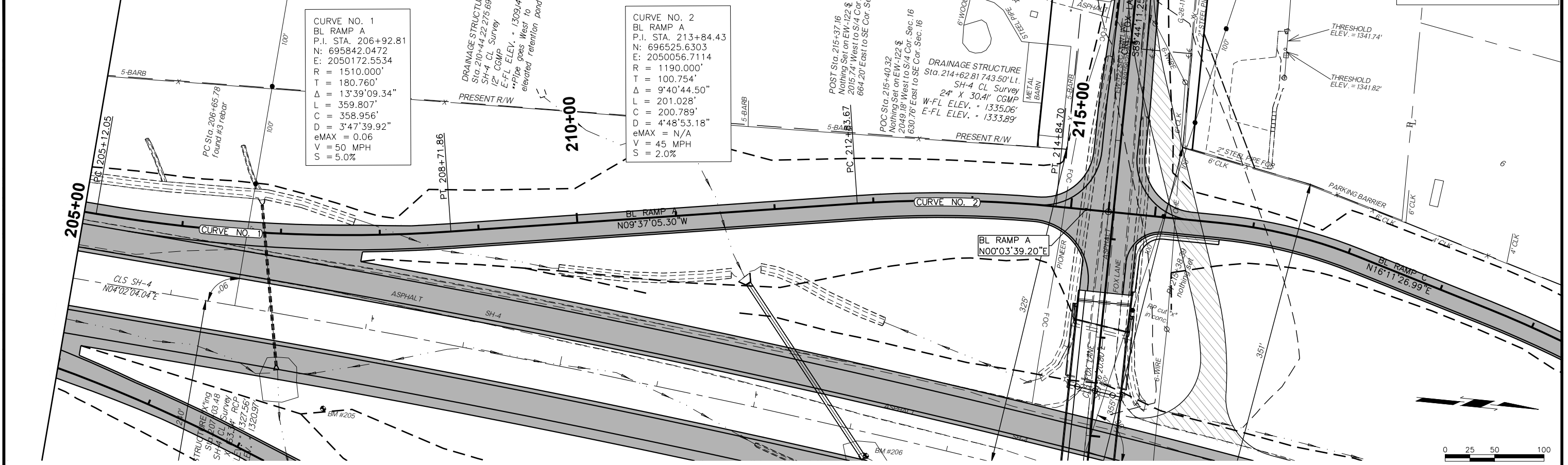
BM # XX STA. XX+XX.XX @ XX.XX' LT.
DESCRIPTION ELEV= XXX.XX'

N:\OKC\Transportation\Highway\Production\ODOT\200168 - EC-2270 - SH 4 at Fox Lane Grady Co\ Preliminary Study\Opt_4 lanes\3A2-Fox over SH4\Production\3426204-Opt3A2-Fox Over SH-4 P&P BL RAMP A.dwg
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NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.

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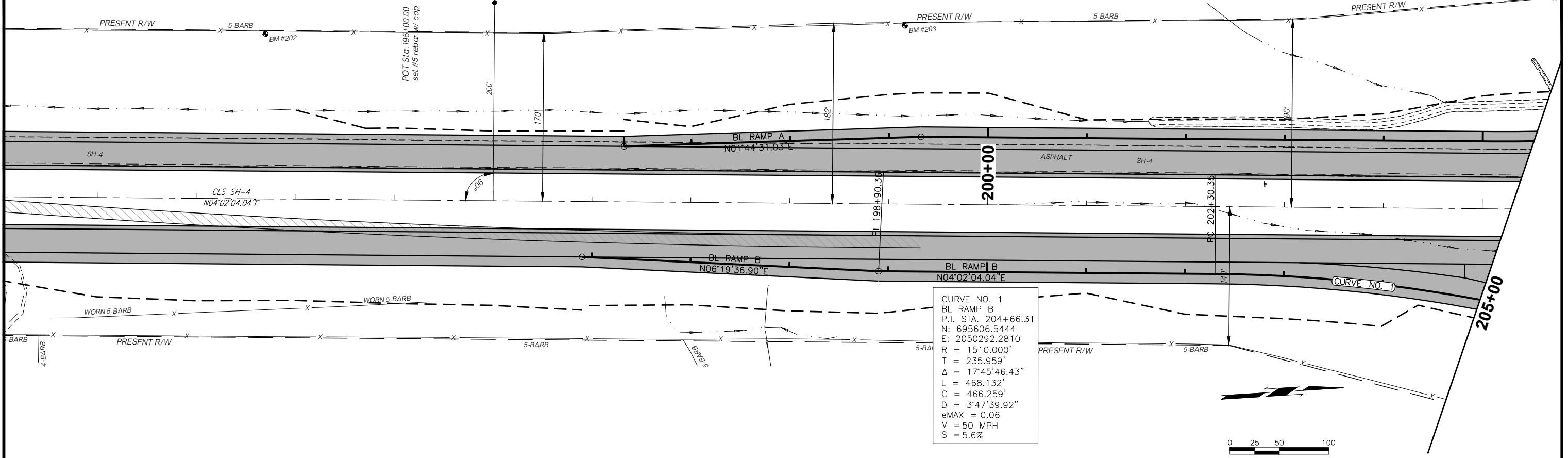
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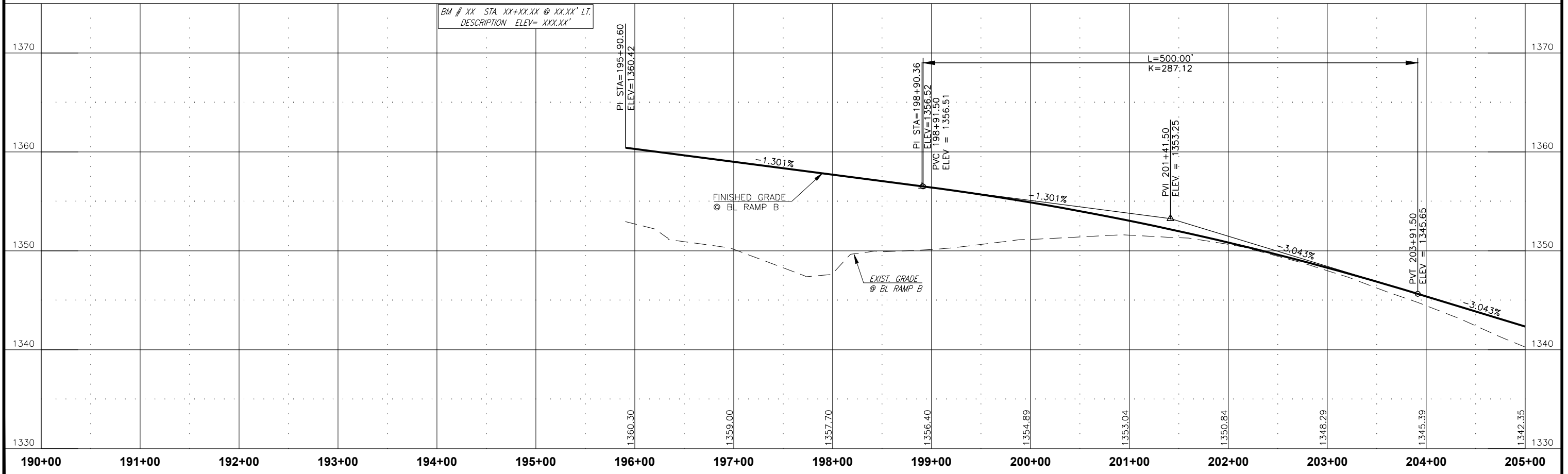
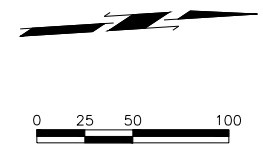
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01/21/2022



CURVE NO. 1
 BL RAMP B
 P.I. STA. 204+66.31
 N: 695606.5444
 E: 2050292.2810
 R = 1510.000'
 T = 235.959'
 Δ = 17°45'46.43"
 L = 468.132'
 C = 466.259'
 D = 3'47'39.92"
 eMAX = 0.06
 V = 50 MPH
 S = 5.6%



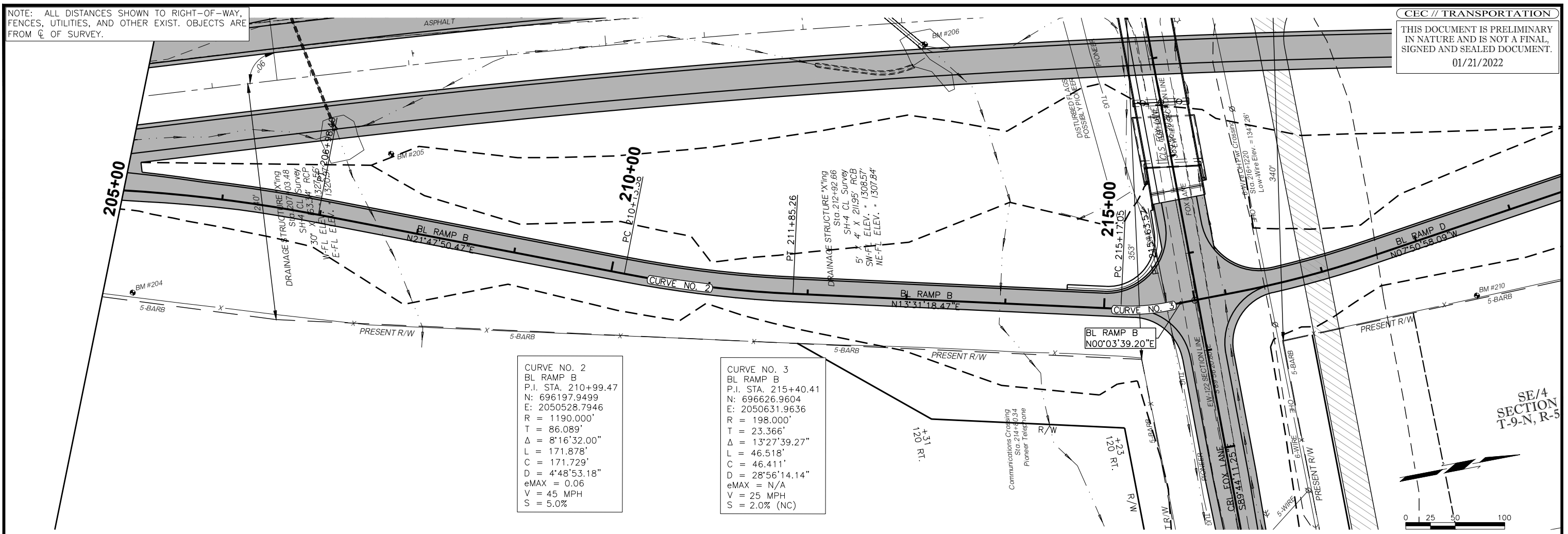
BM # XX STA. XX+XX.XX @ XX.XX' LT.
 DESCRIPTION ELEV= XXX.XX'

N:\ORC\Transportation\Highway\Production\ODOT\200168 - EC-2270 - SH 4 at Fox Lane Grady Co\Preliminary Study\Opt_4 lanes\3A2-Fox over SH4\Production\3426204-Opt3A2-Fox Over SH-4 P&P BL RAMP B.dwg
 Save date: 1/20/2022 3:38:12 PM, JESSICA MILLER, Plot date: 1/20/2022 4:24:58 PM, MARCO PARRA, AutoCAD PDF (General Documentation).pc3

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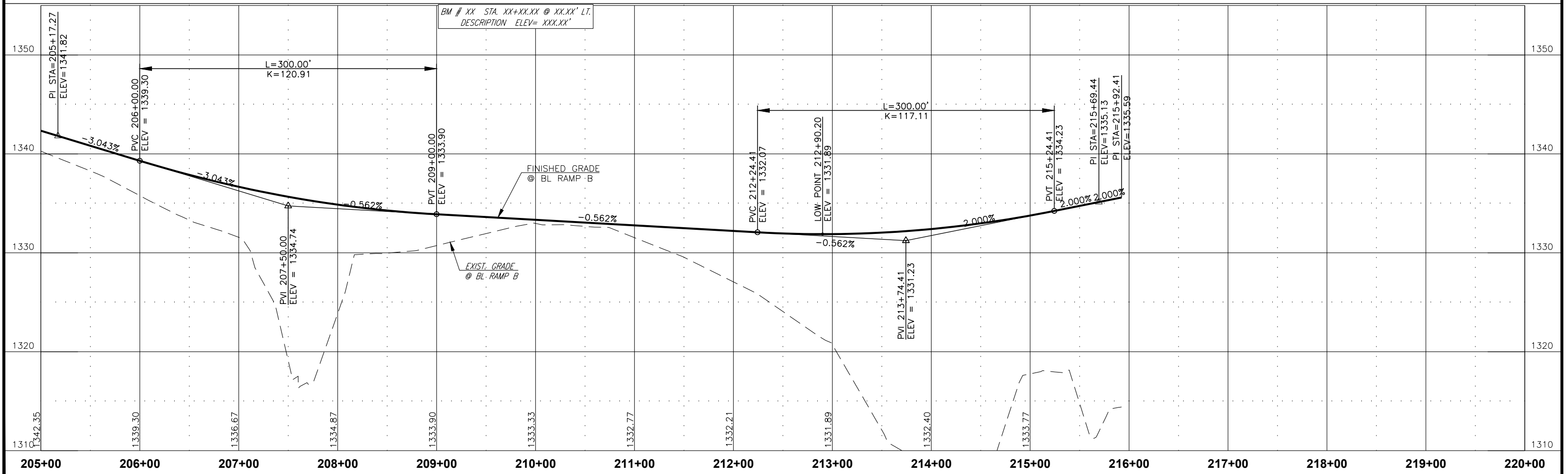
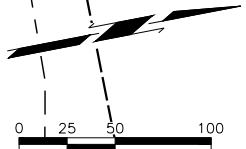
01/21/2022



CURVE NO. 2
 BL RAMP B
 P.I. STA. 210+99.47
 N: 696197.9499
 E: 2050528.7946
 R = 1190.000'
 T = 86.089'
 Δ = 8°16'32.00"
 L = 171.878'
 C = 171.729'
 D = 4'48"53.18"
 eMAX = 0.06
 V = 45 MPH
 S = 5.0%

CURVE NO. 3
 BL RAMP B
 P.I. STA. 215+40.41
 N: 696626.9604
 E: 2050631.9636
 R = 198.000'
 T = 23.366'
 Δ = 13°27'39.27"
 L = 46.518'
 C = 46.411'
 D = 28°56'14.14"
 eMAX = N/A
 V = 25 MPH
 S = 2.0% (NC)

SE/4 SECTION T-9-N, R-5

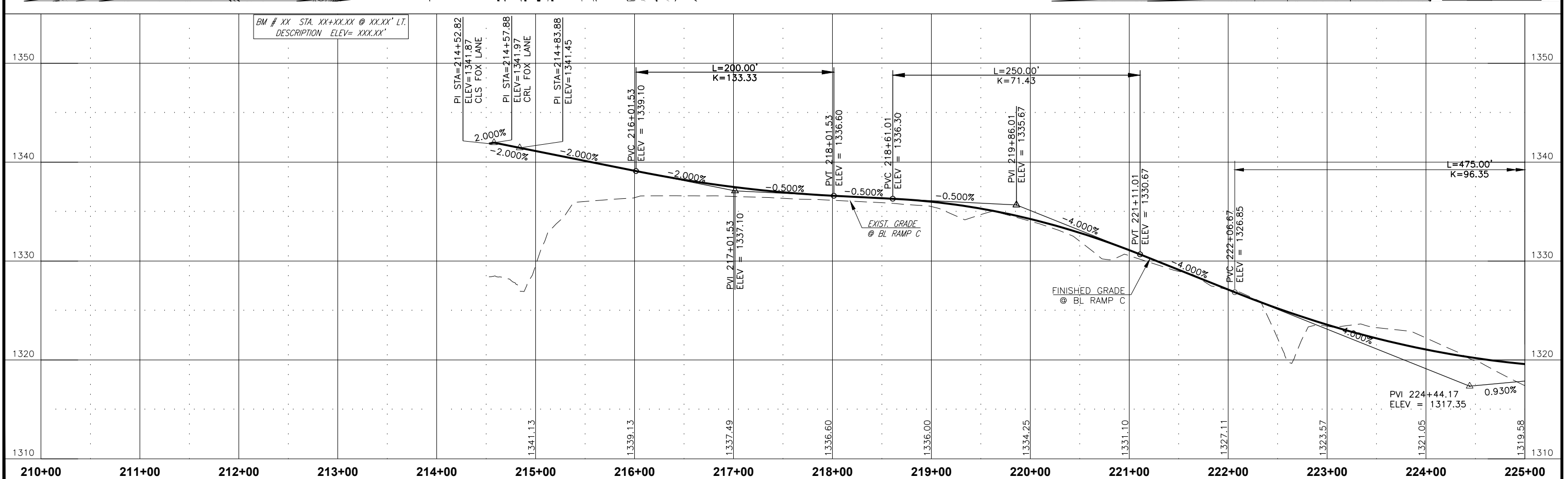
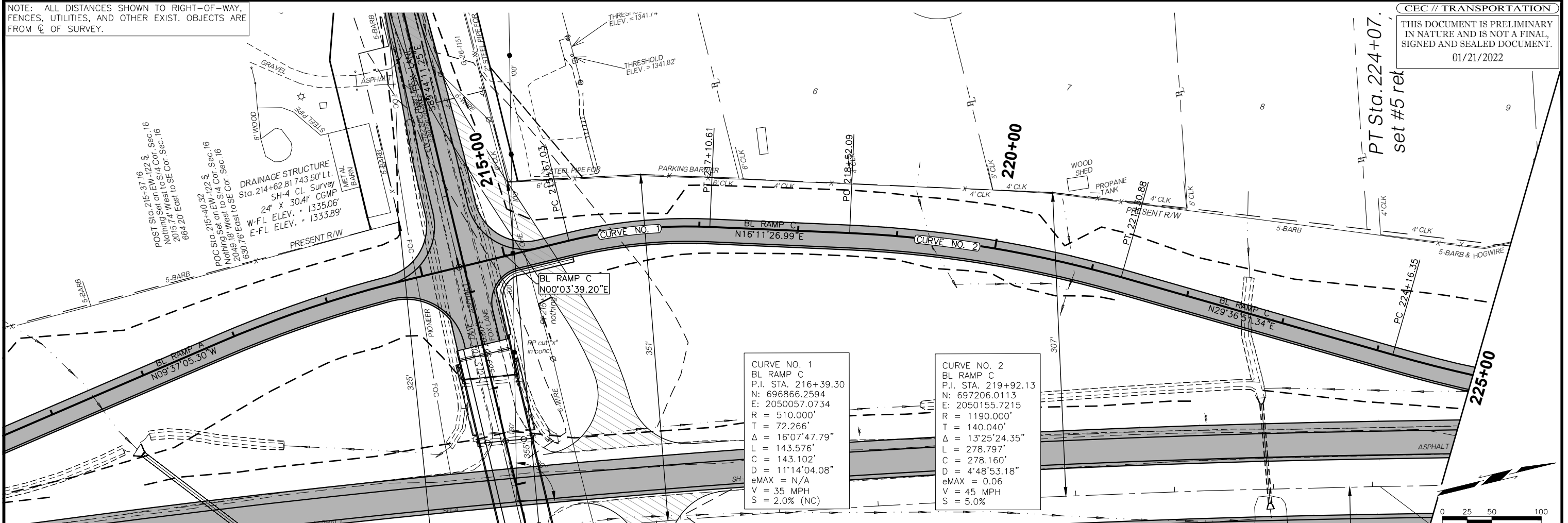


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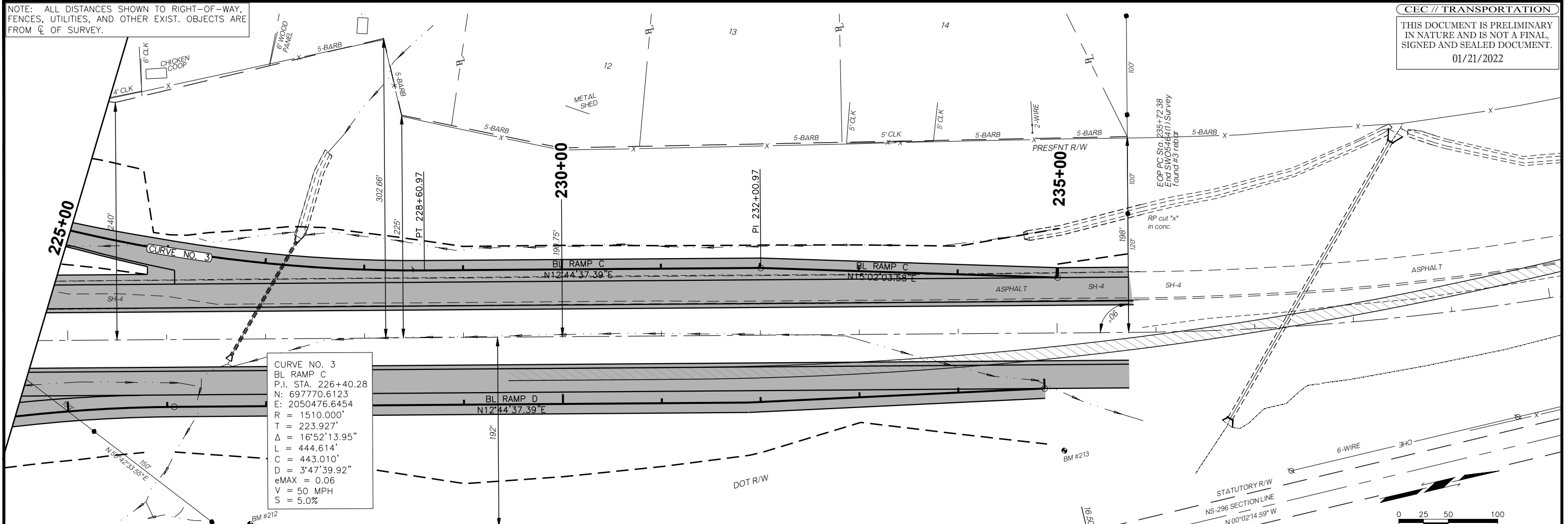
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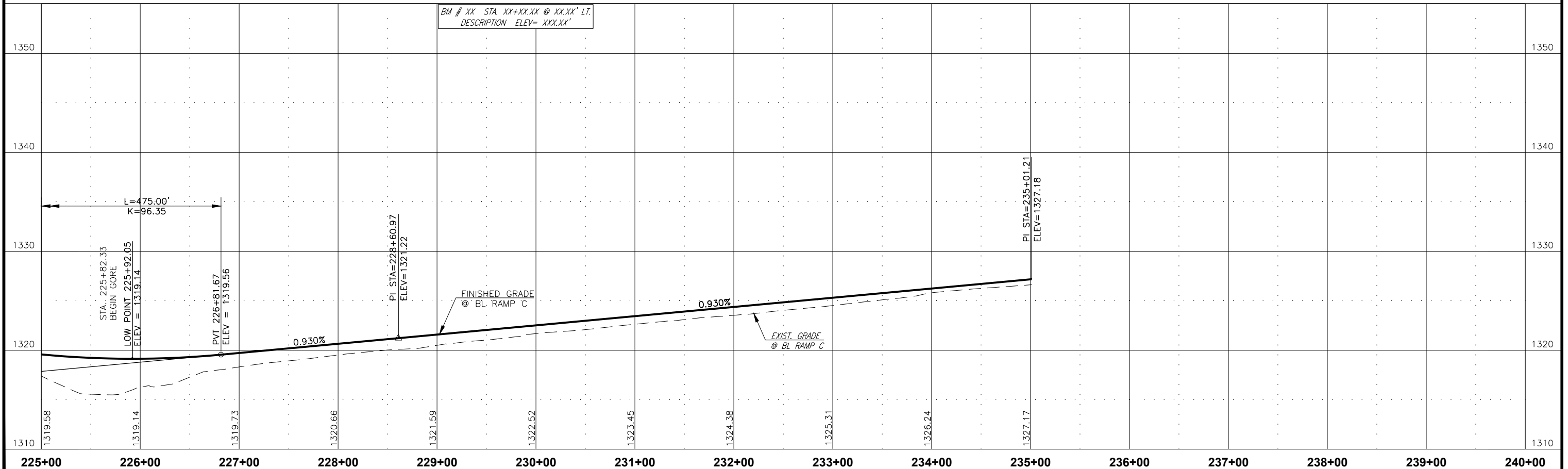
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01/21/2022



CURVE NO. 3
 BL RAMP C
 P.I. STA. 226+40.28
 N: 697770.6123
 E: 2050476.6454
 R = 1510.000'
 T = 223.927'
 Δ = 16°52'13.95"
 L = 444.614'
 C = 443.010'
 D = 3'47'39.92"
 eMAX = 0.06
 V = 50 MPH
 S = 5.0%

BM # XX STA. XX+XX.XX @ XX.XX' LT.
 DESCRIPTION ELEV= XXX.XX'



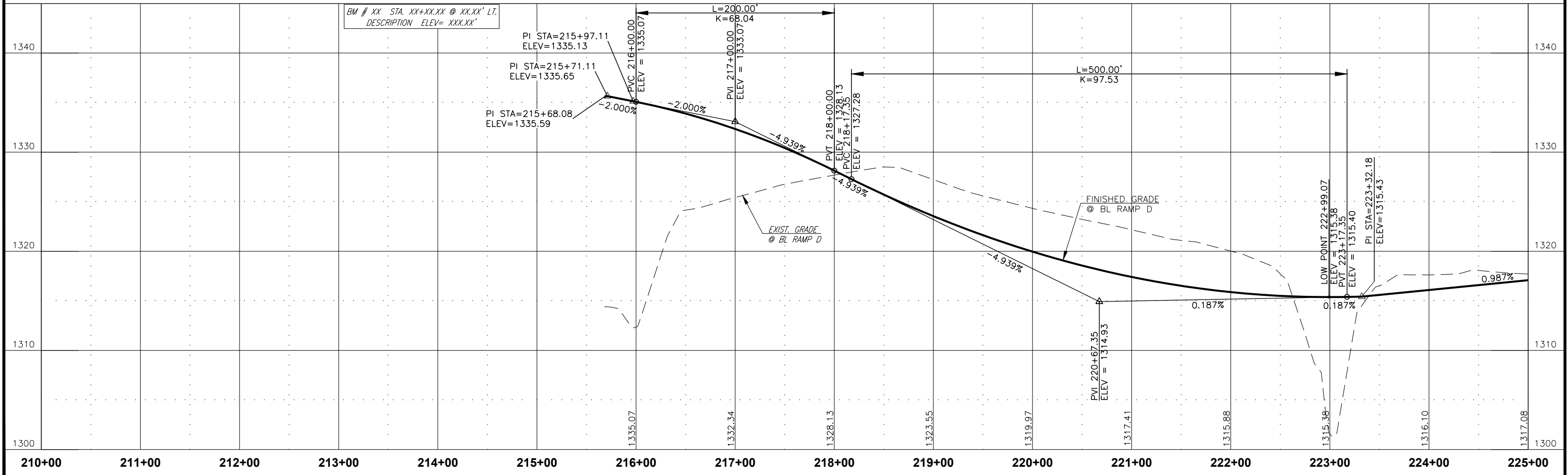
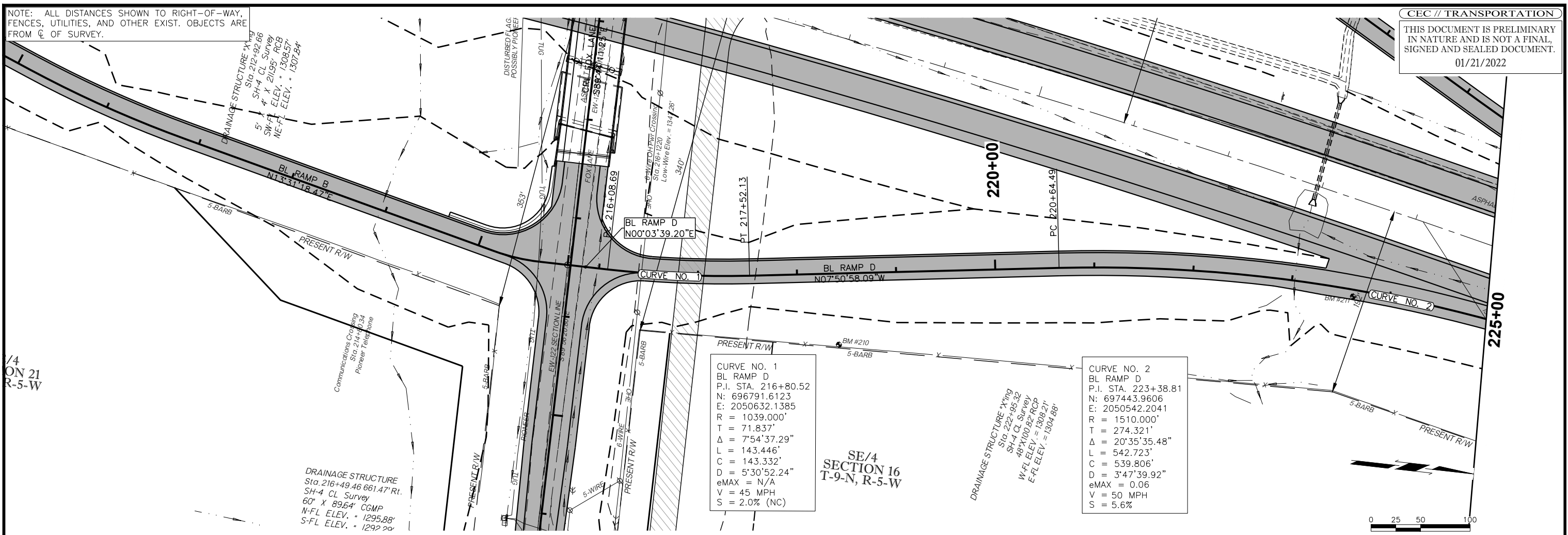
225+00 226+00 227+00 228+00 229+00 230+00 231+00 232+00 233+00 234+00 235+00 236+00 237+00 238+00 239+00 240+00

ALT. 3A2 INTERCHANGE FOX LANE OVER SH-4 P&P BL RAMP C

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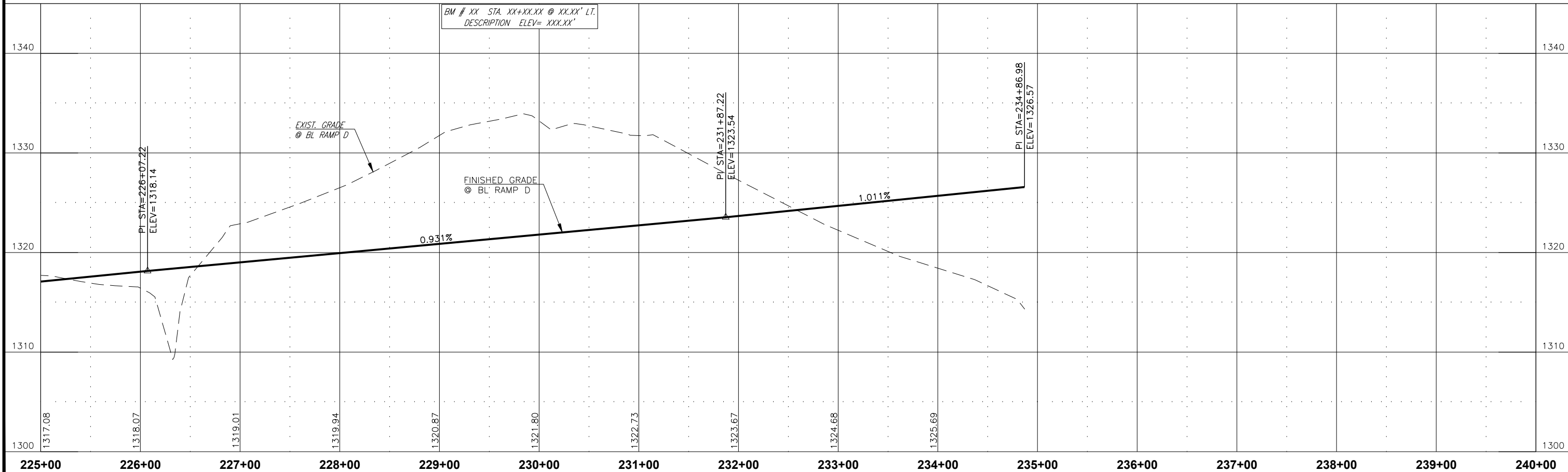
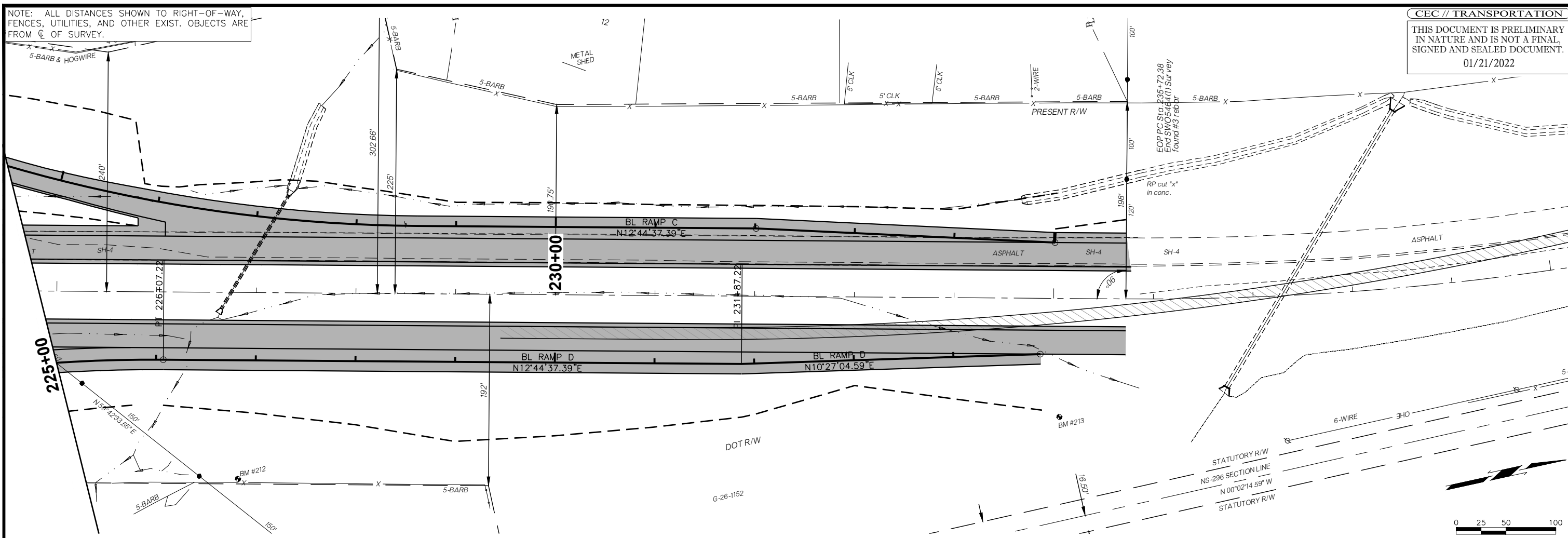
01/21/2022



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01/21/2022

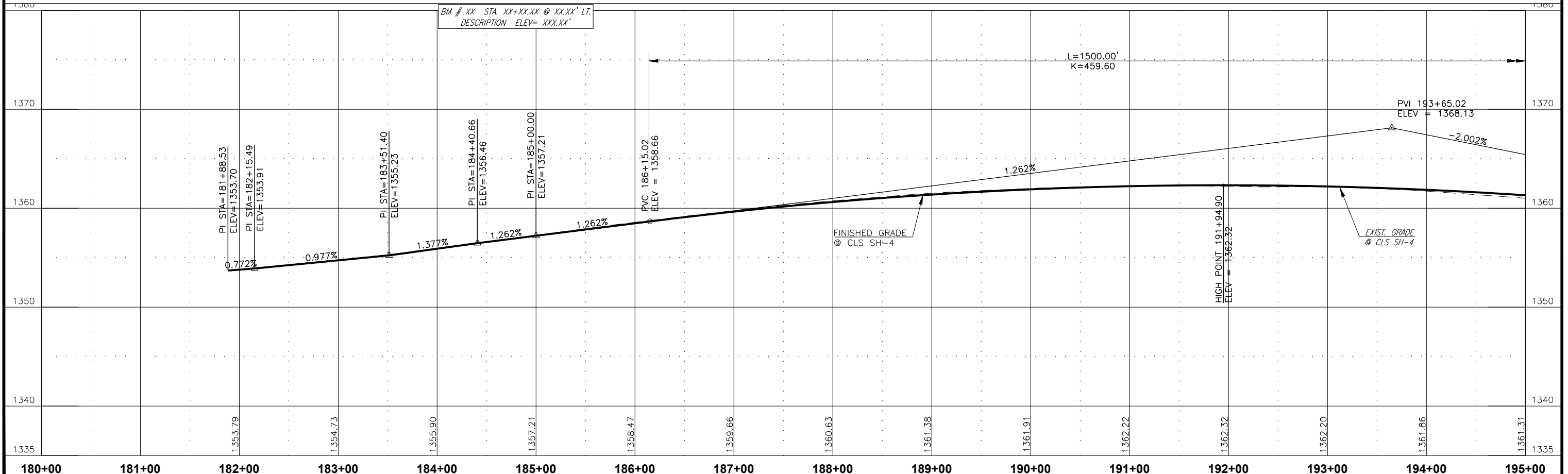
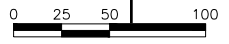
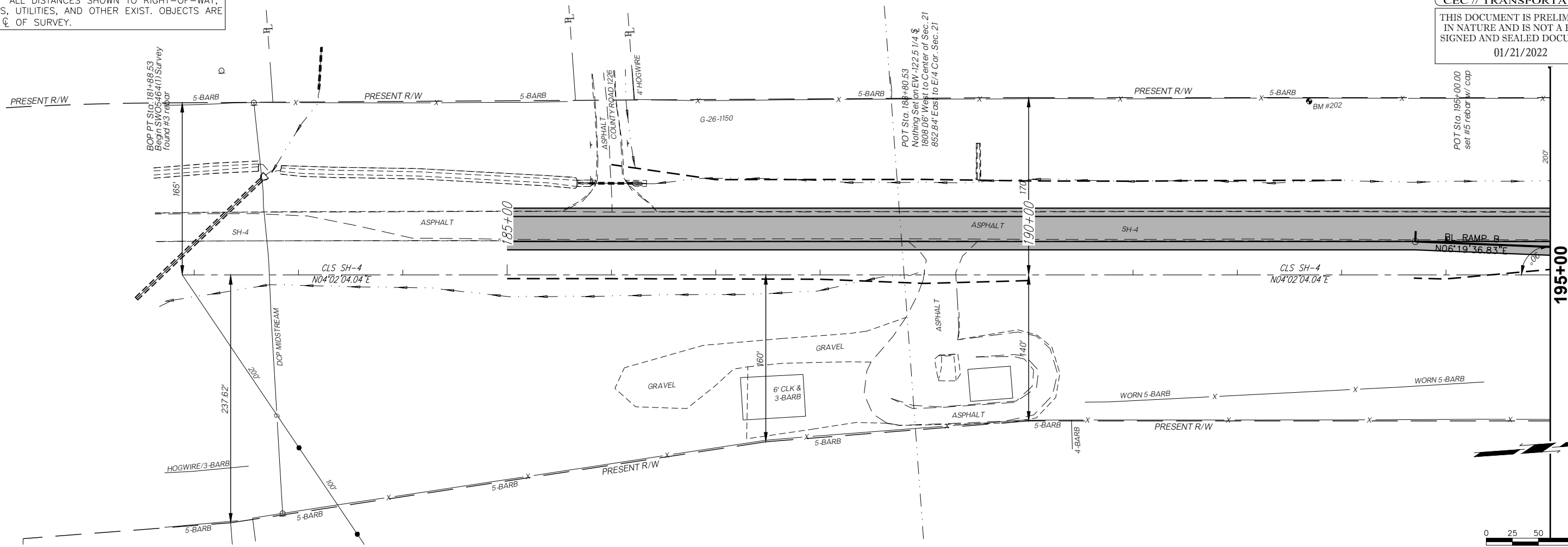


BM # XX STA. XX+XX.XX @ XX.XX' LT.
DESCRIPTION ELEV= XXX.XX'

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.

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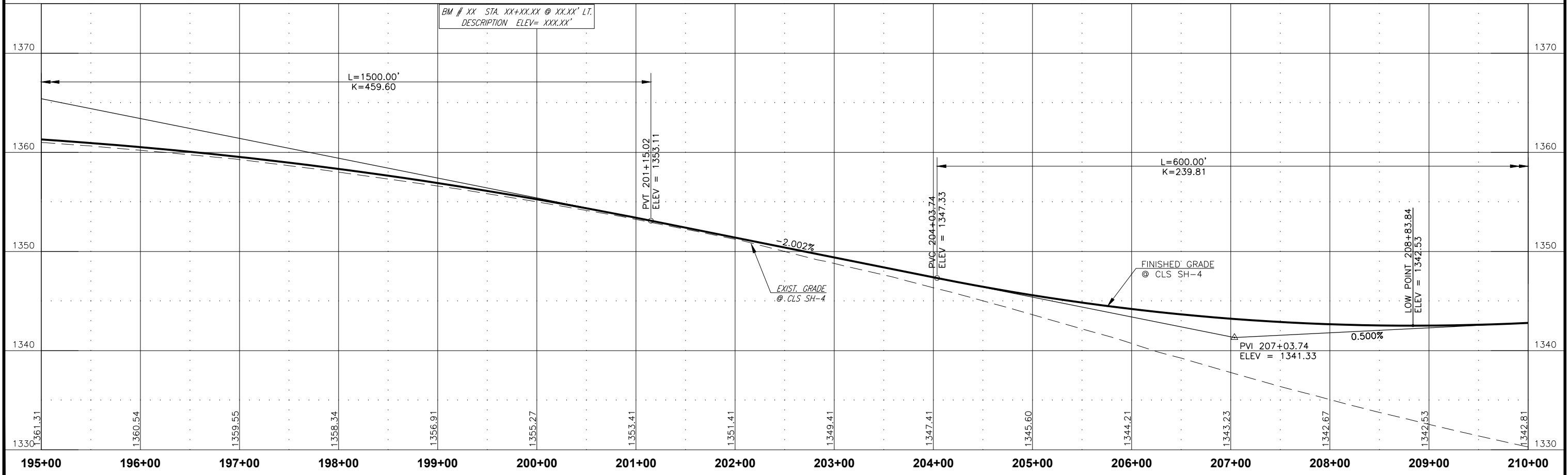
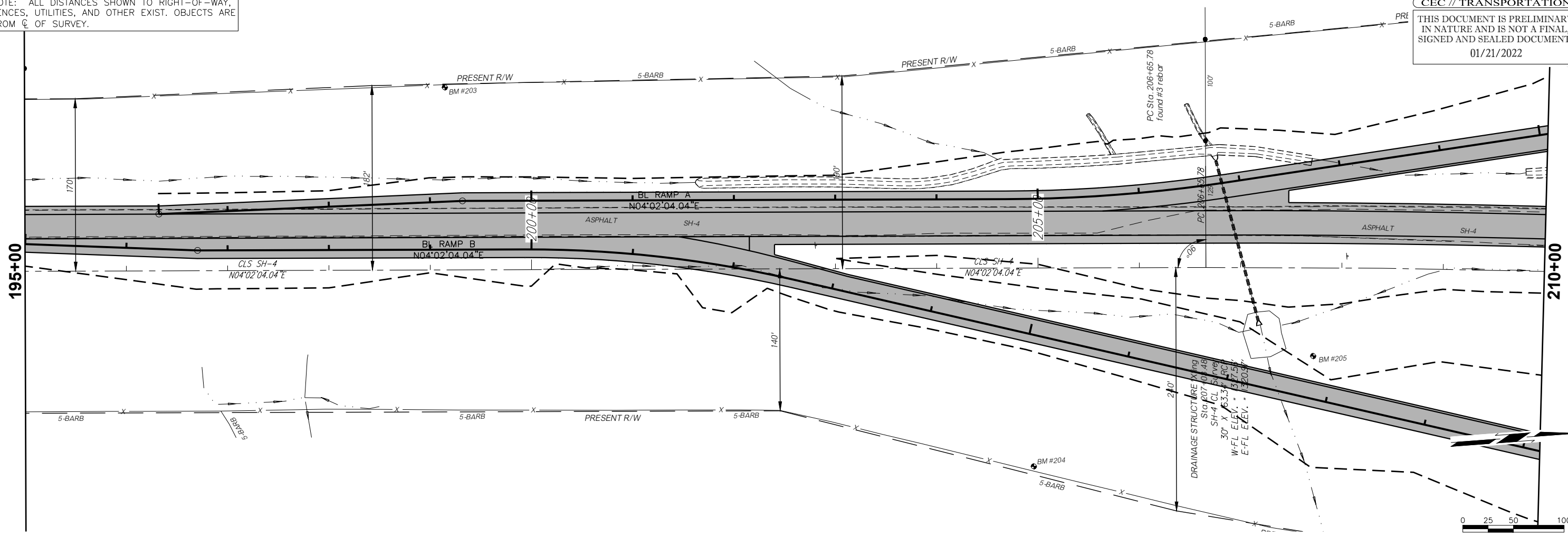
BM # XX STA. XX+XX.XX @ XX.XX' LT.
DESCRIPTION ELEV= XXX.XX'

ALT. 3B INTERCHANGE SH-4 OVER FOX LANE ON EXISTING P&P CLS SH-4

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C. OF SURVEY.

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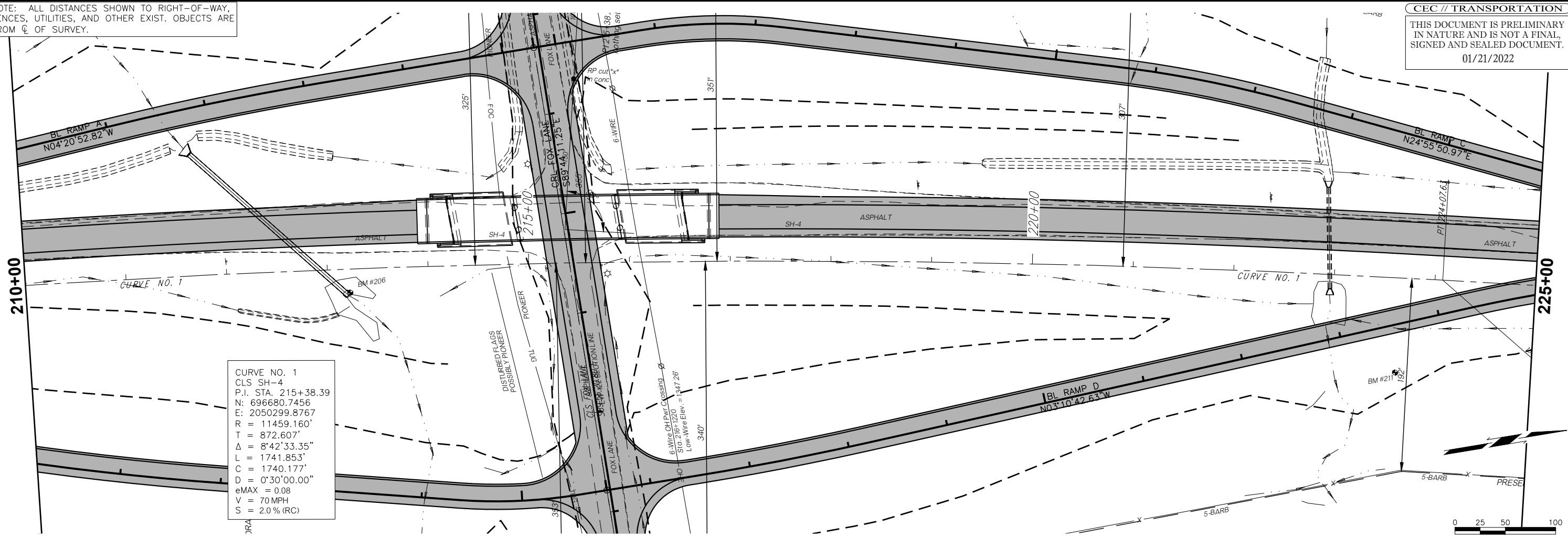


ALT. 3B INTERCHANGE SH-4 OVER FOX LANE ON EXISTING P&P CLS SH-4

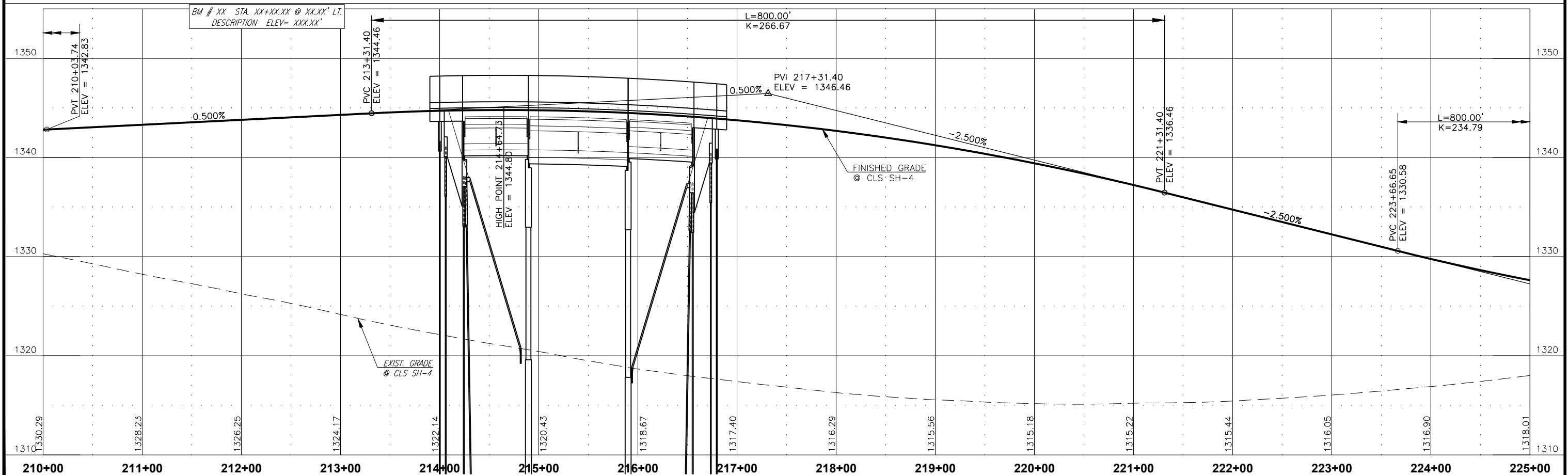
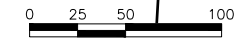
NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM ϕ OF SURVEY.

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01/21/2022



CURVE NO. 1
CLS SH-4
P.I. STA. 215+38.39
N: 696680.7456
E: 2050299.8767
R = 11459.160'
T = 872.607'
 Δ = 8°42'33.35"
L = 1741.853'
C = 1740.177'
D = 0°30'00.00"
eMAX = 0.08
V = 70 MPH
S = 2.0% (RC)

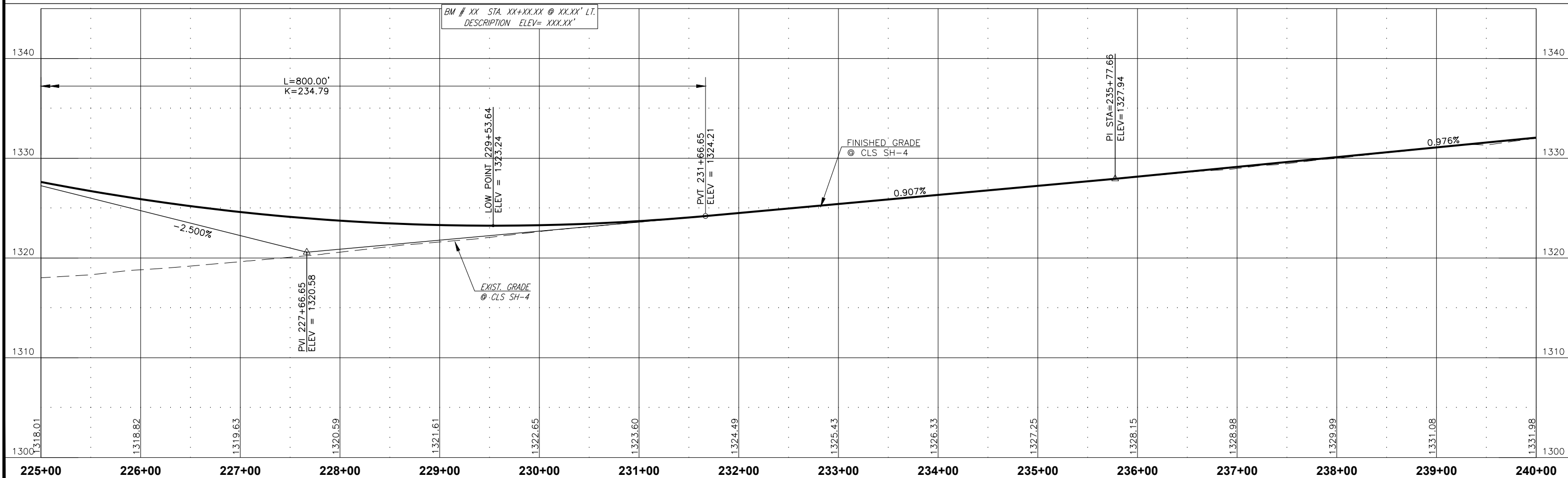
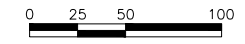
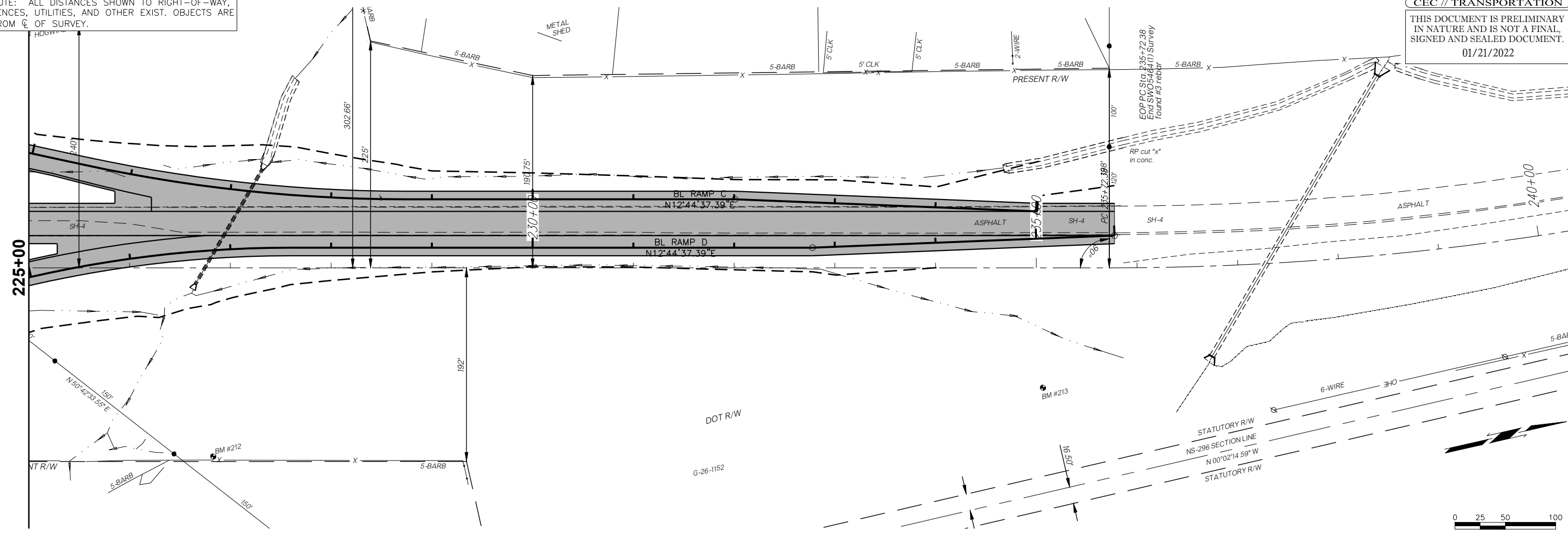


ALT. 3B INTERCHANGE SH-4 OVER FOX LANE ON EXISTING P&P CLS SH-4

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C. OF SURVEY.

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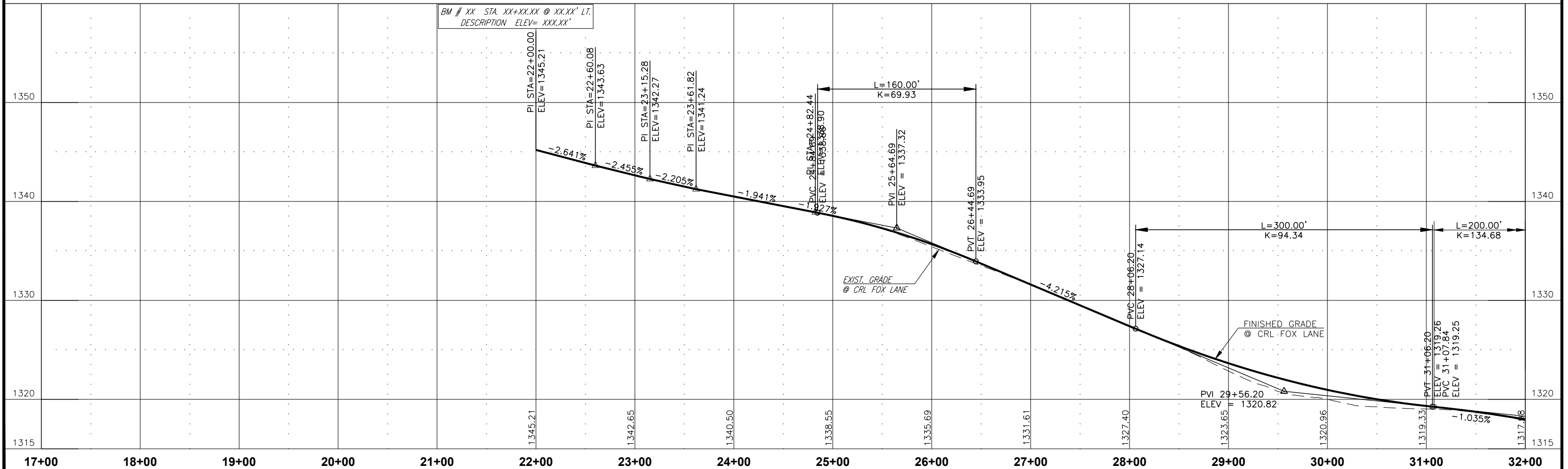
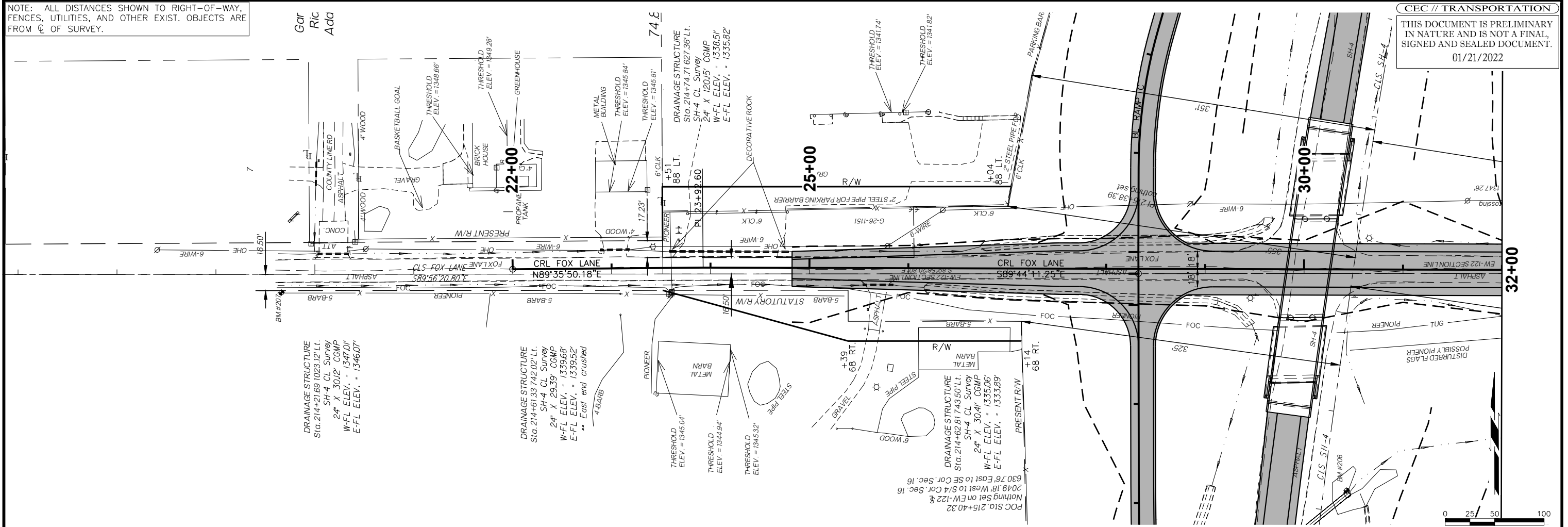


N:\ORC\Transportation\Highway\Production\ODOT\200168 - EC-2270 - SH 4 at Fox Lane Grady Co\Preliiminary Study\Opt_Grade separated\2-SH4 on Existing over Fox\Production\3426204_Opt_Over_Fox_P&P_CLS_SH-4.dwg
 Save date: 1/20/2022 3:40:10 PM, JESSICA MILLER, Plot date: 1/20/2022 4:25:34 PM, MARCO PARRA, AutoCAD PDF (General Documentation).pc3

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.

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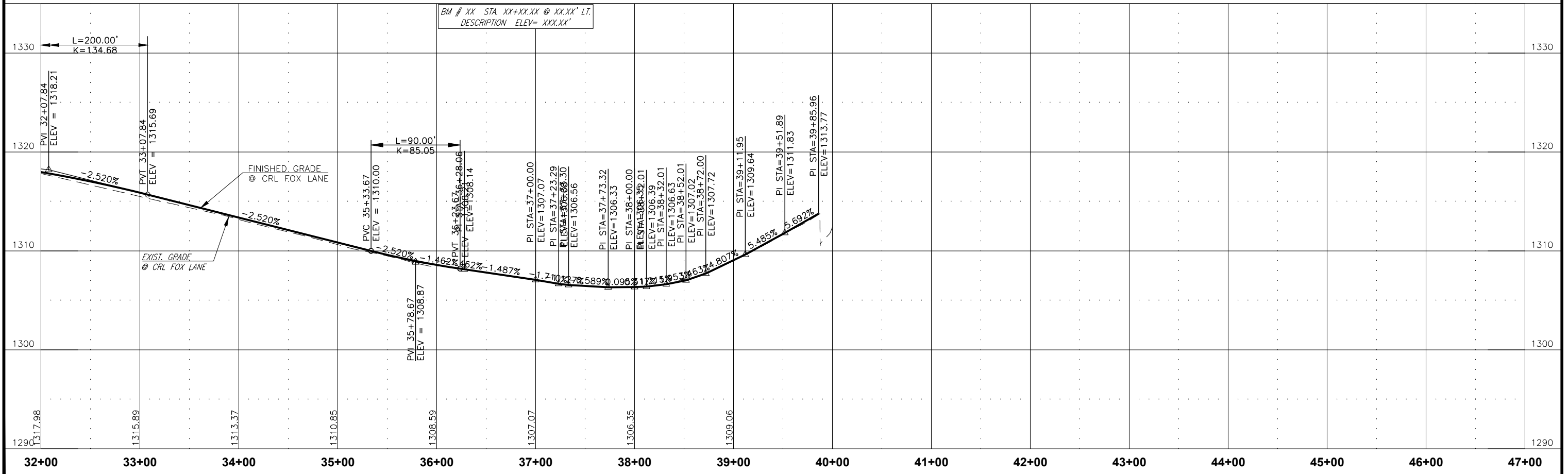
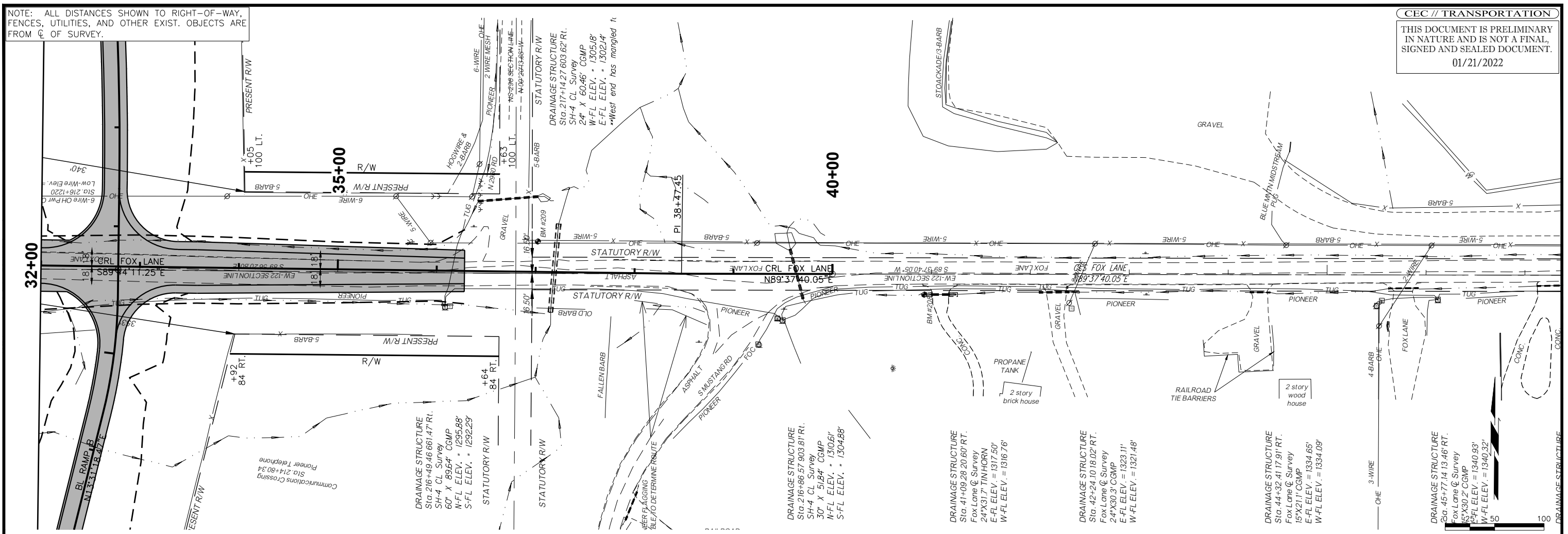


ALT. 3B INTERCHANGE SH-4 OVER FOX LANE ON EXISTING P&P CRL FOX LANE

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.

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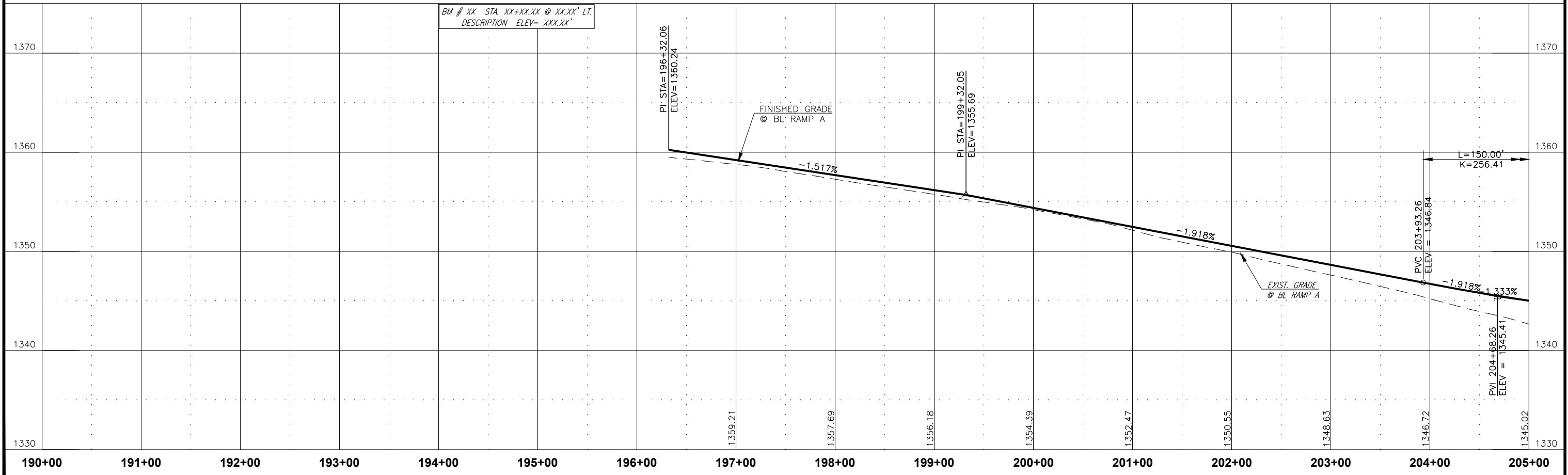
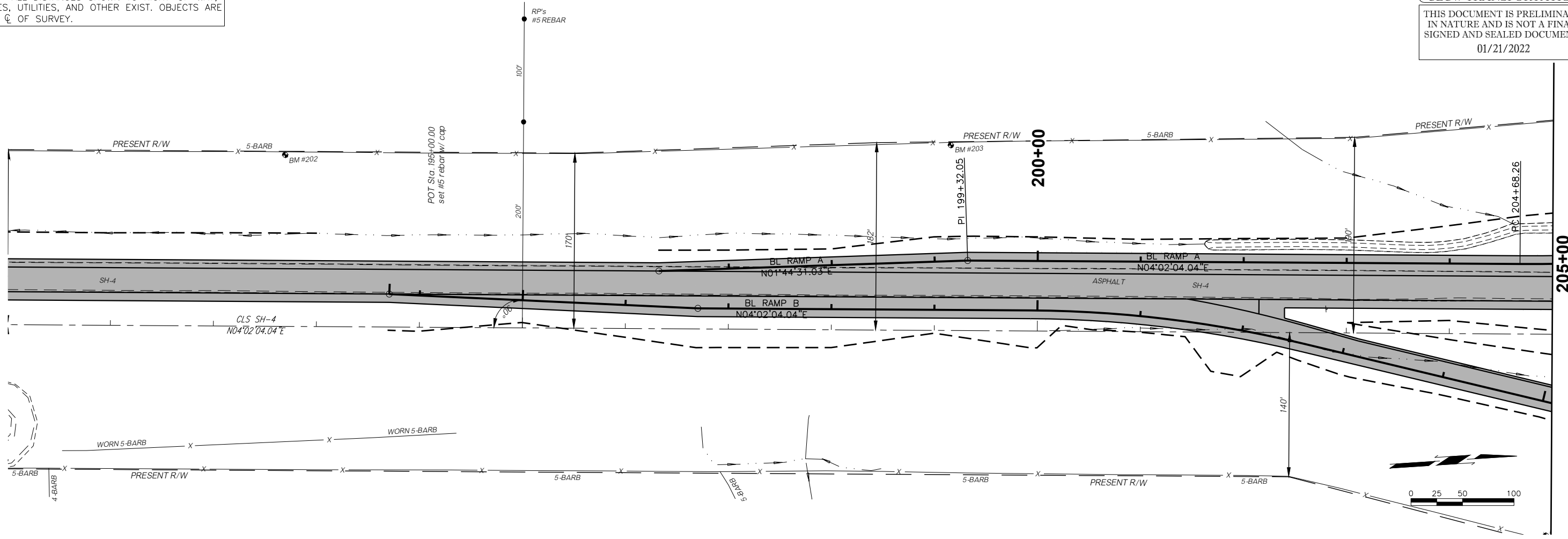


ALT. 3B INTERCHANGE SH-4 OVER FOX LANE ON EXISTING P&P CRL FOX LANE

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM ϕ OF SURVEY.

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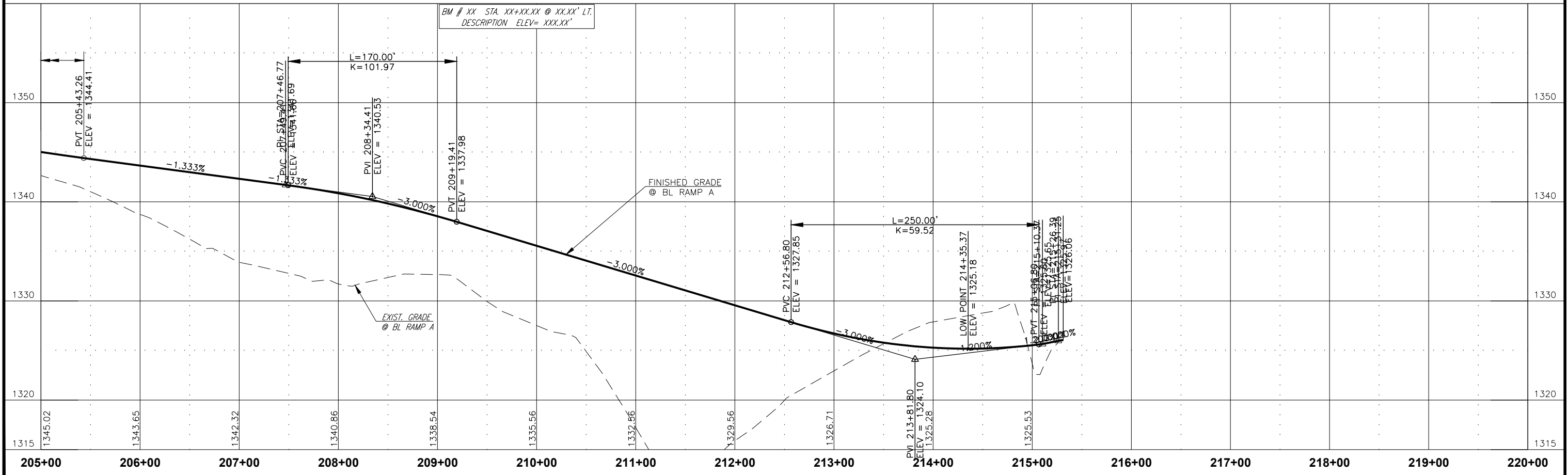
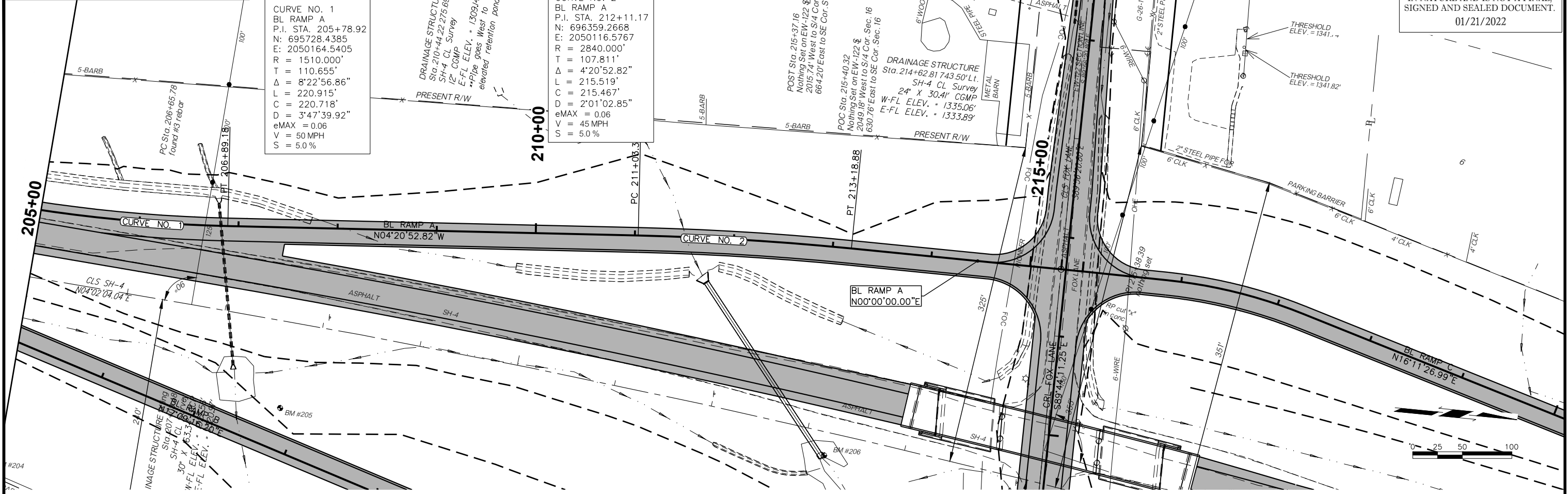
01/21/2022



ALT. 3B INTERCHANGE SH-4 OVER FOX LANE ON EXISTING P&P BL RAMP A

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.

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01/21/2022

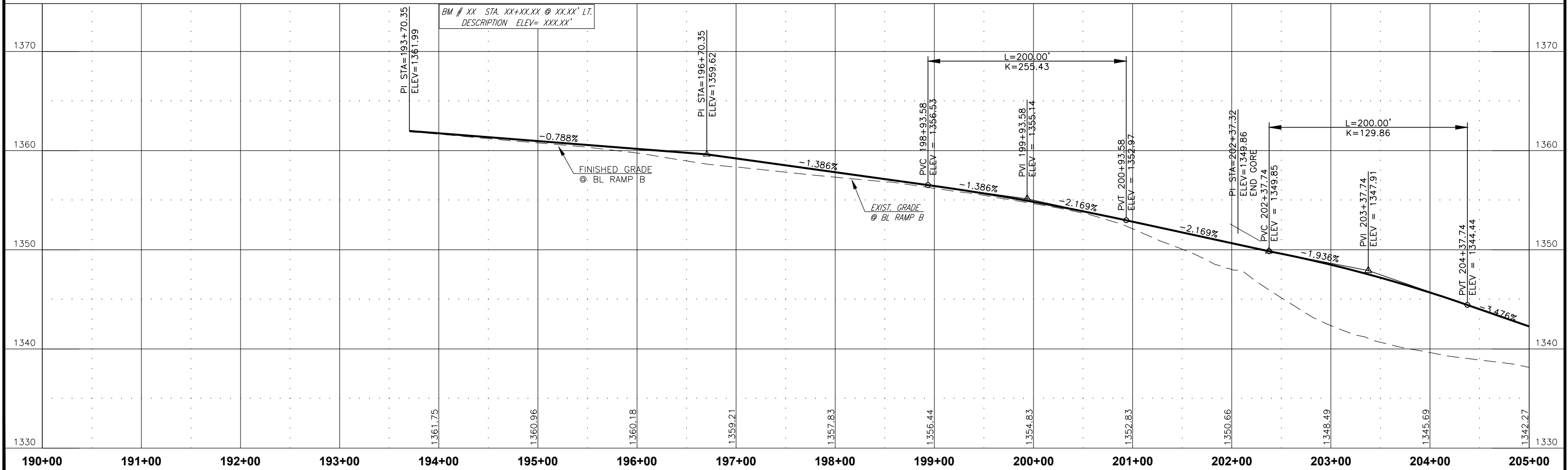
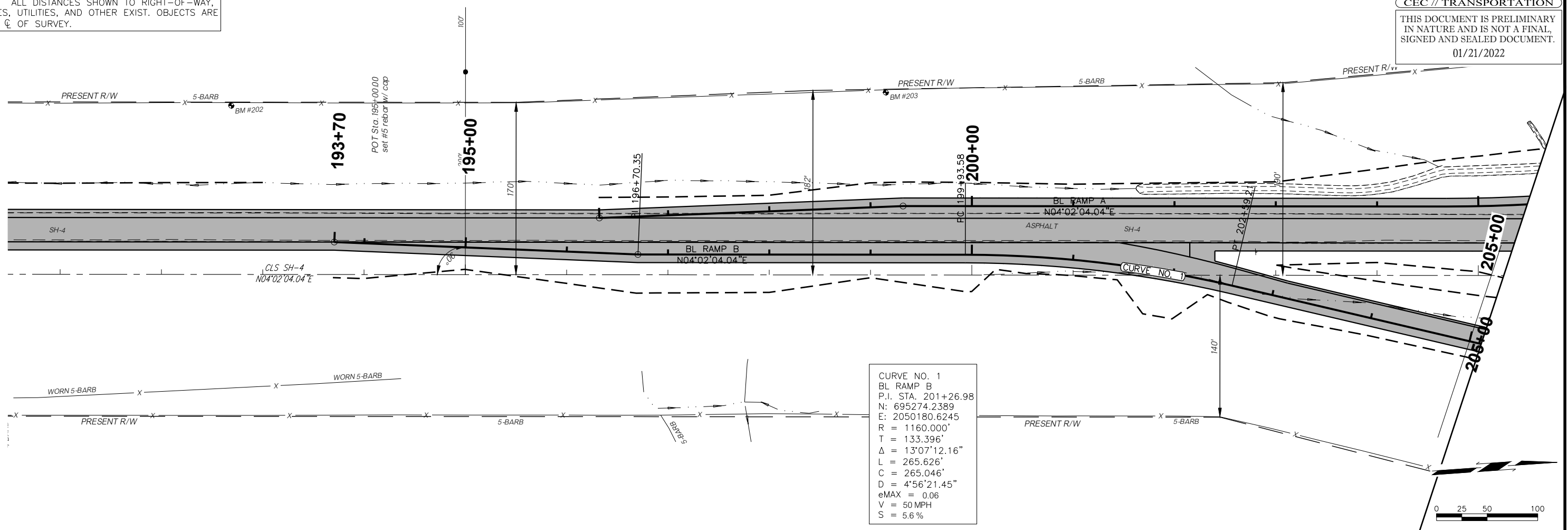


ALT. 3B INTERCHANGE SH-4 OVER FOX LANE ON EXISTING P&P BL RAMP A

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.

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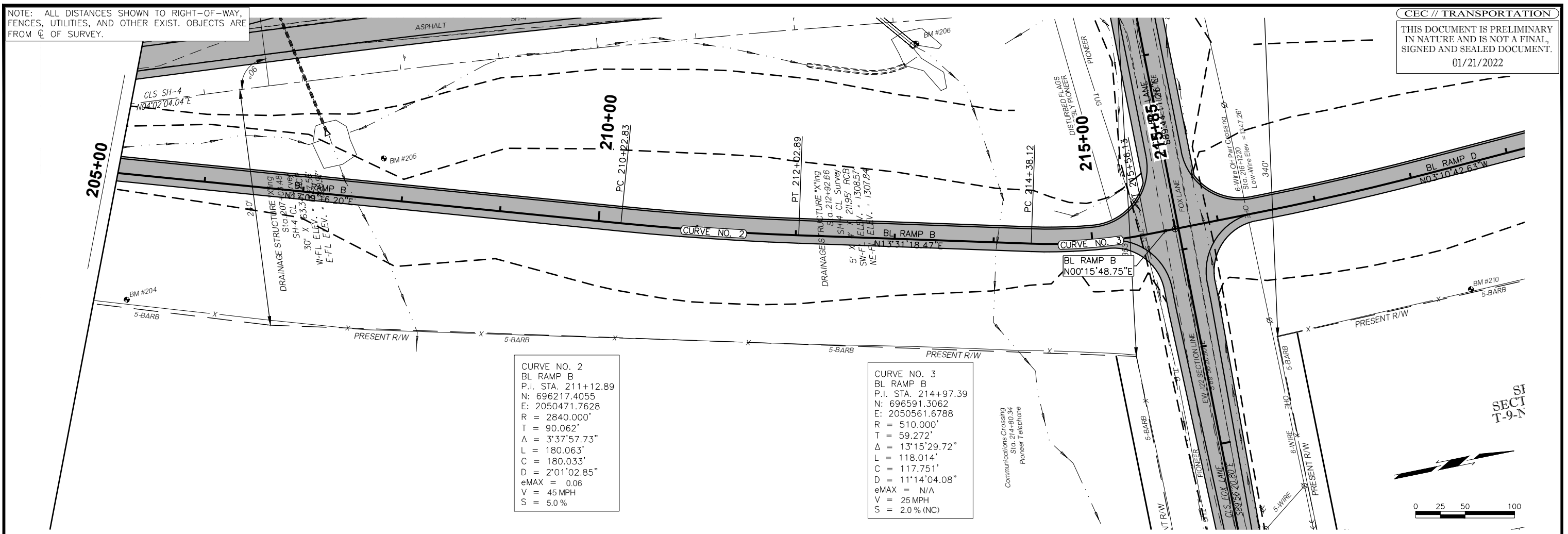


ALT. 3B INTERCHANGE SH-4 OVER FOX LANE ON EXISTING P&P BL RAMP B

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.

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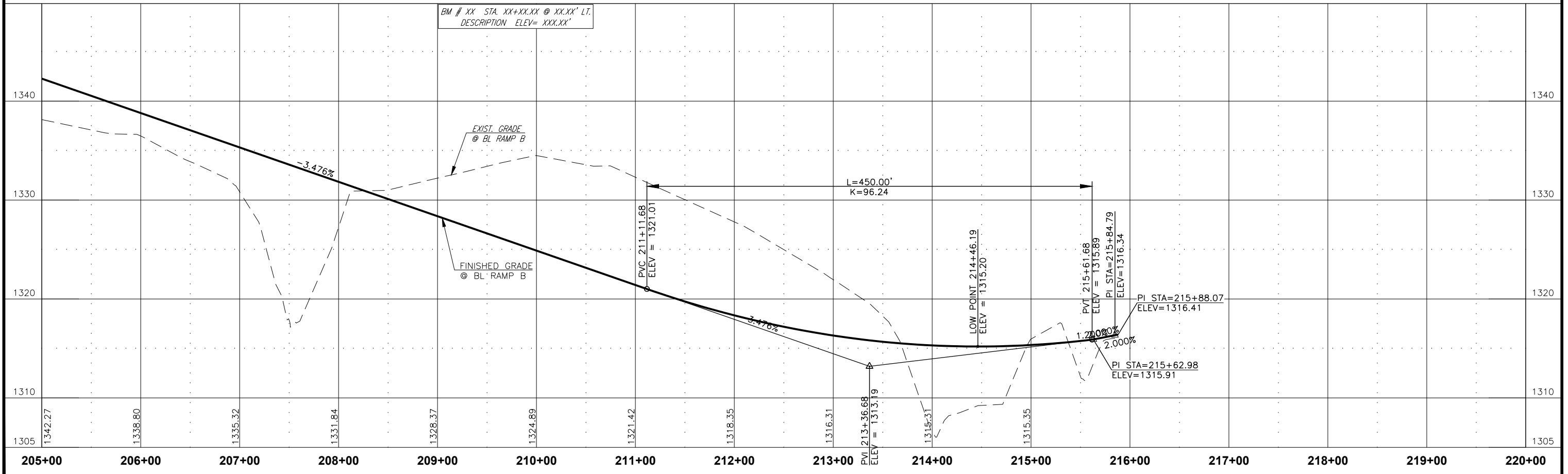
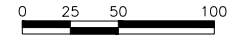
01/21/2022



CURVE NO. 2
 BL RAMP B
 P.I. STA. 211+12.89
 N: 696217.4055
 E: 2050471.7628
 R = 2840.000'
 T = 90.062'
 Δ = 3°37'57.73"
 L = 180.063'
 C = 180.033'
 D = 2°01'02.85"
 eMAX = 0.06
 V = 45 MPH
 S = 5.0%

CURVE NO. 3
 BL RAMP B
 P.I. STA. 214+97.39
 N: 696591.3062
 E: 2050561.6788
 R = 510.000'
 T = 59.272'
 Δ = 13°15'29.72"
 L = 118.014'
 C = 117.751'
 D = 11°14'04.08"
 eMAX = N/A
 V = 25 MPH
 S = 2.0% (NC)

SI
 SECT
 T-9-N



BM # XX STA. XX+XX.XX @ XX.XX' LT.
 DESCRIPTION ELEV= XXX.XX'

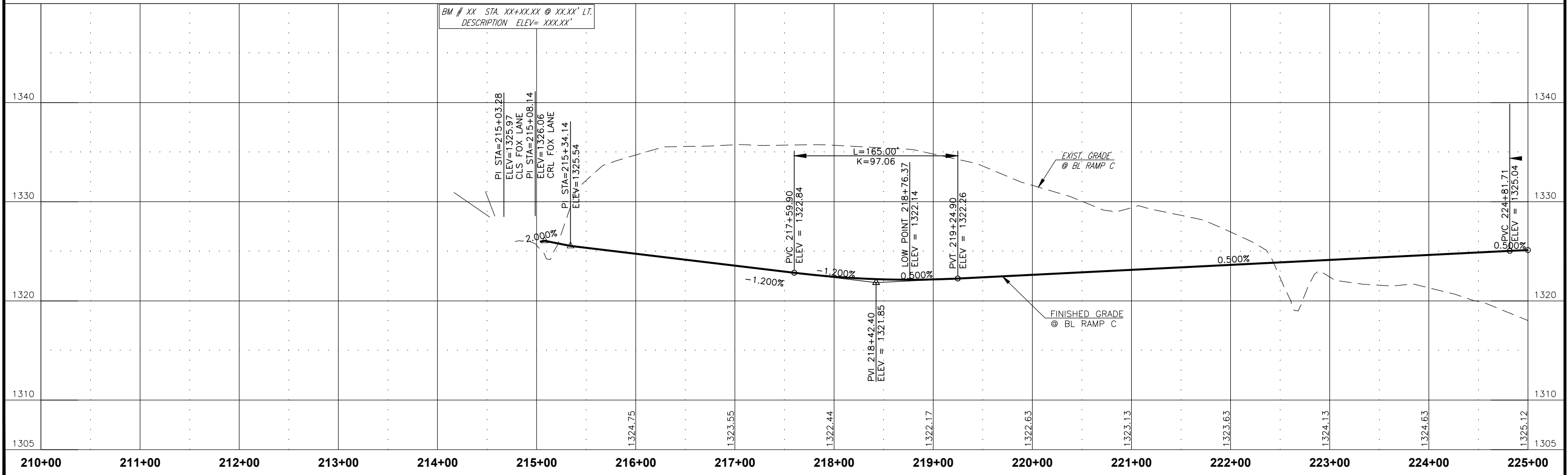
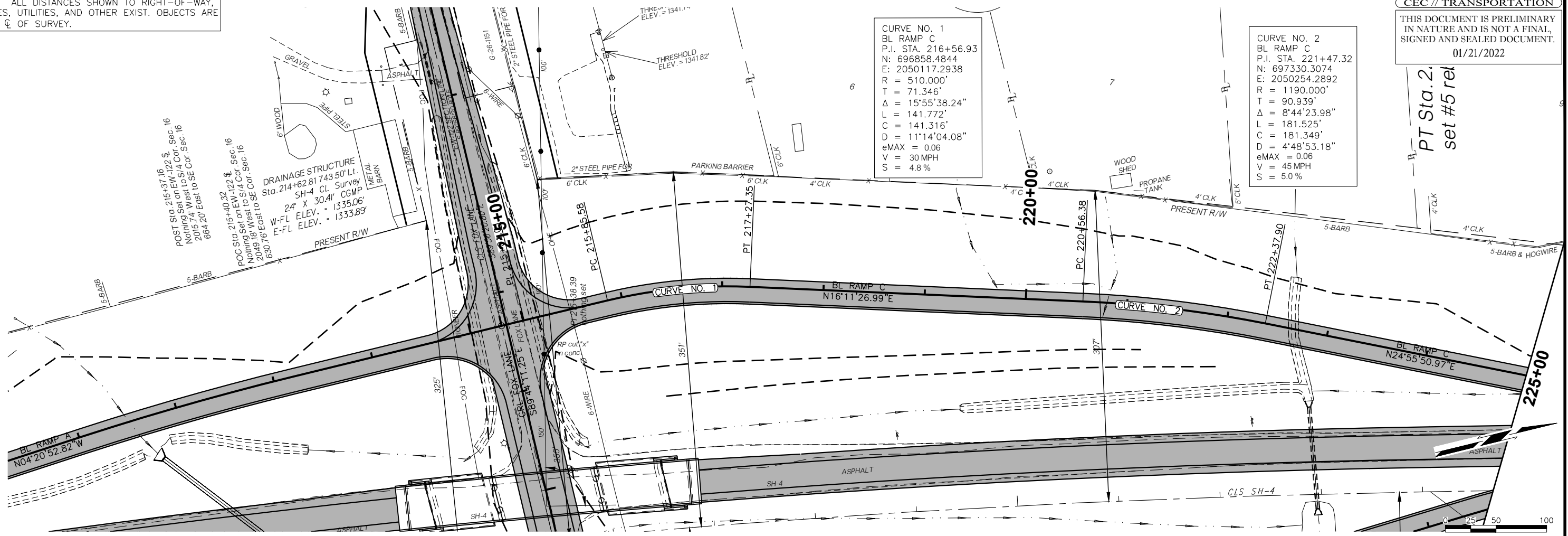
NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM \angle OF SURVEY.

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CURVE NO. 1
BL RAMP C
P.I. STA. 216+56.93
N: 696858.4844
E: 2050117.2938
R = 510.000'
T = 71.346'
 $\Delta = 15^{\circ}55'38.24''$
L = 141.772'
C = 141.316'
D = 11'14"04.08"
eMAX = 0.06
V = 30 MPH
S = 4.8%

CURVE NO. 2
BL RAMP C
P.I. STA. 221+47.32
N: 697330.3074
E: 2050254.2892
R = 1190.000'
T = 90.939'
 $\Delta = 8^{\circ}44'23.98''$
L = 181.525'
C = 181.349'
D = 4'48"53.18"
eMAX = 0.06
V = 45 MPH
S = 5.0%

PT Sta. 2.2
set #5 rel

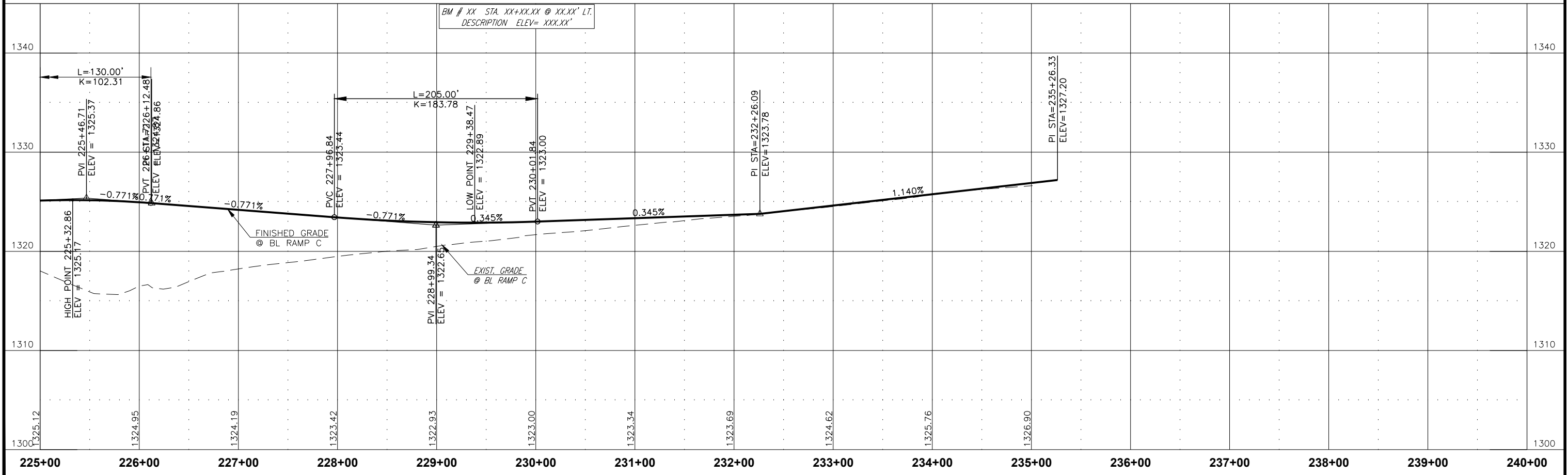
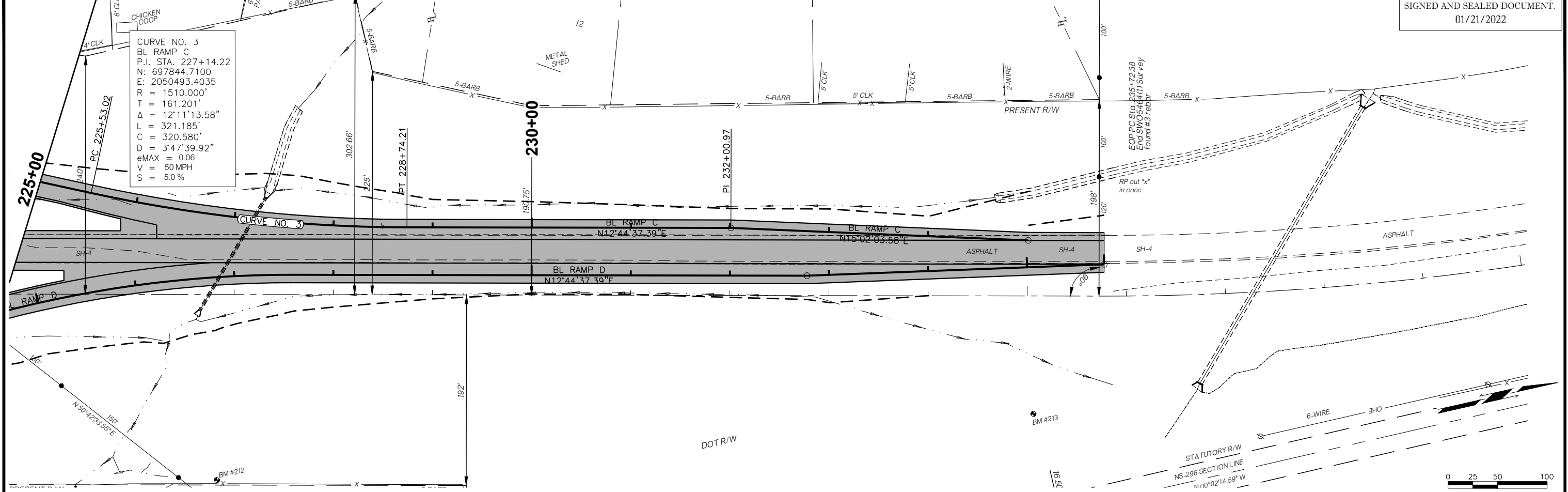


BM # XX STA. XX+XX.XX @ XX.XX' LT.
DESCRIPTION ELEV = XXX.XX'

PI STA=215+03.28
ELEV=1325.97
CLS FOX LANE
PI STA=215+08.14
ELEV=1326.06
CRL FOX LANE
PI STA=215+34.14
ELEV=1325.54

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM ϕ OF SURVEY.

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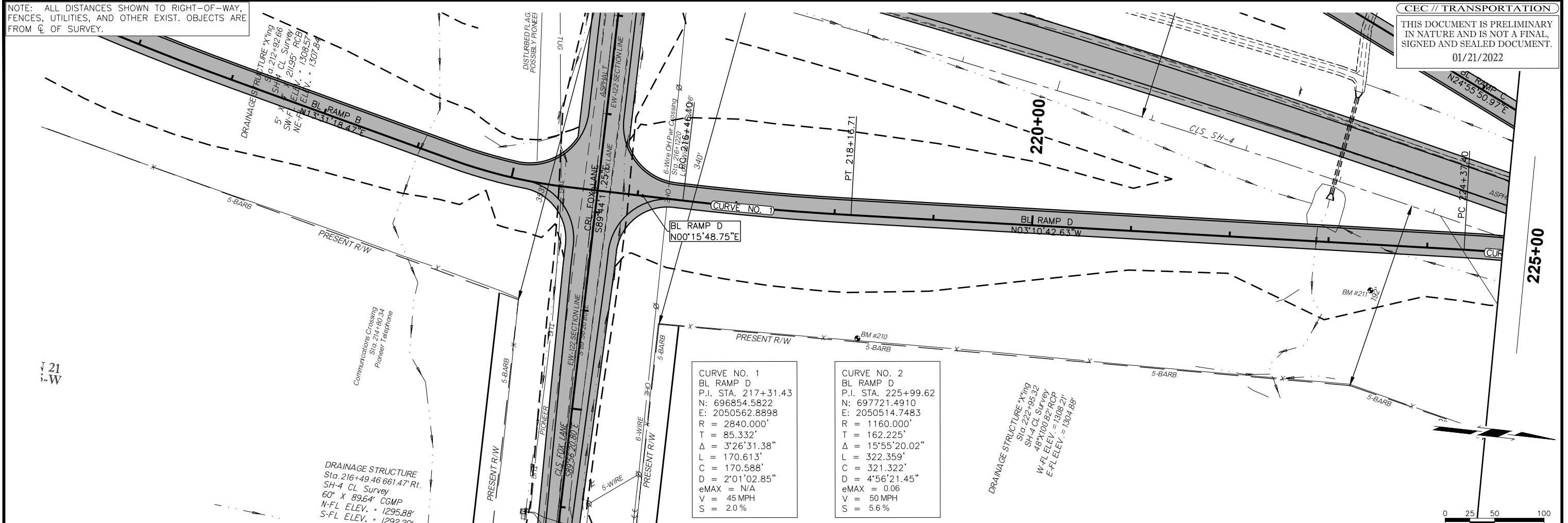


ALT. 3B INTERCHANGE SH-4 OVER FOX LANE ON EXISTING P&P BL RAMP C

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C. OF SURVEY.

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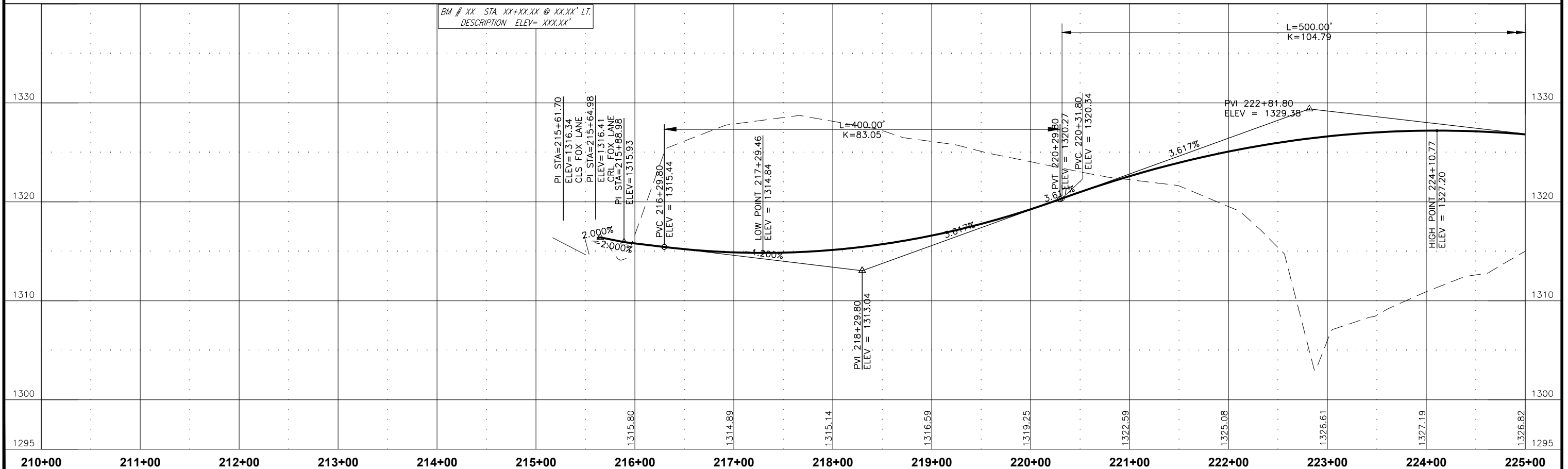
CURVE NO. 1
 BL RAMP D
 P.I. STA. 217+31.43
 N: 696854.5822
 E: 2050562.8898
 R = 2840.000'
 T = 85.332'
 Δ = 3°26'31.38"
 L = 170.613'
 C = 170.588'
 D = 2°01'02.85"
 eMAX = N/A
 V = 45 MPH
 S = 2.0%

CURVE NO. 2
 BL RAMP D
 P.I. STA. 225+99.62
 N: 697721.4910
 E: 2050514.7483
 R = 1160.000'
 T = 162.225'
 Δ = 15°55'20.02"
 L = 322.359'
 C = 321.322'
 D = 4°56'21.45"
 eMAX = 0.06
 V = 50 MPH
 S = 5.6%

DRAINAGE STRUCTURE X'ing
 Sta. 222+95.92
 SH-4 CL Survey
 48"X100 B2/RCP
 W-FL ELEV. = 1308.21'
 E-FL ELEV. = 1304.88'

DRAINAGE STRUCTURE
 Sta. 216+49.46
 60" X 89.64" CGMP
 N-FL ELEV. = 1295.88'
 S-FL ELEV. = 1292.20'

BM # XX STA. XX+XX.XX @ XX.XX' LT.
 DESCRIPTION ELEV = XXX.XX'

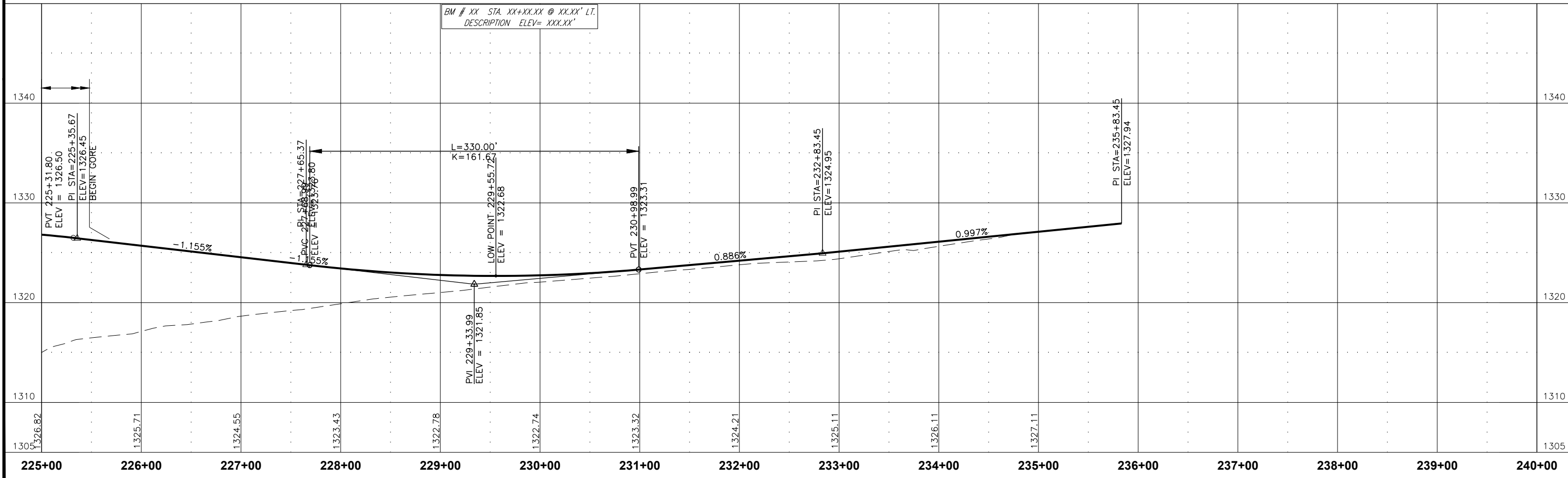
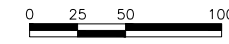
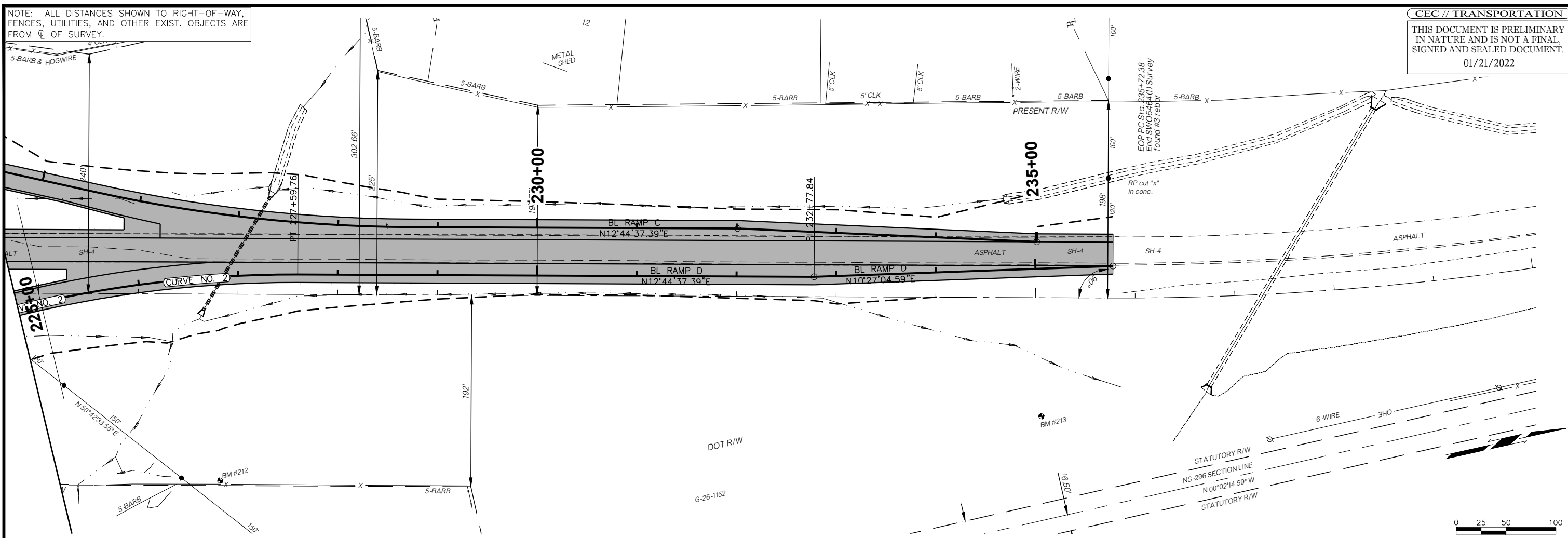


ALT. 3B INTERCHANGE SH-4 OVER FOX LANE ON EXISTING P&P BL RAMP D

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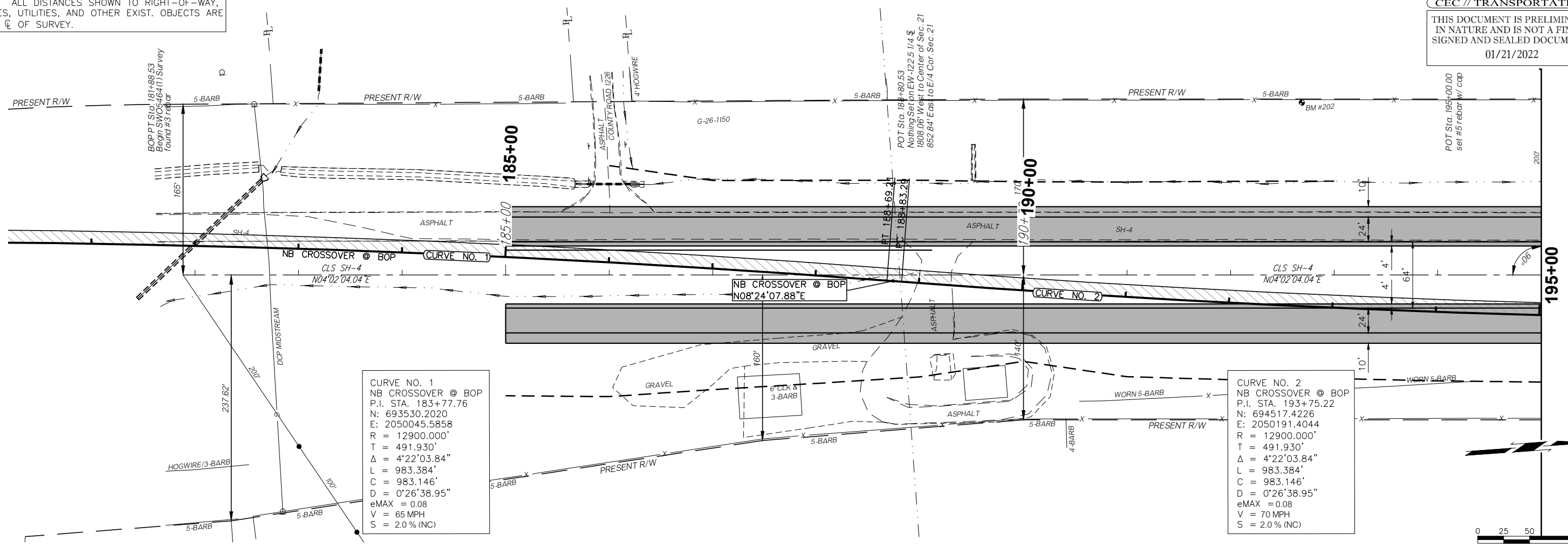


BM # XX STA. XX+XX.XX @ XX.XX' LT.
DESCRIPTION ELEV= XXX.XX'

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.

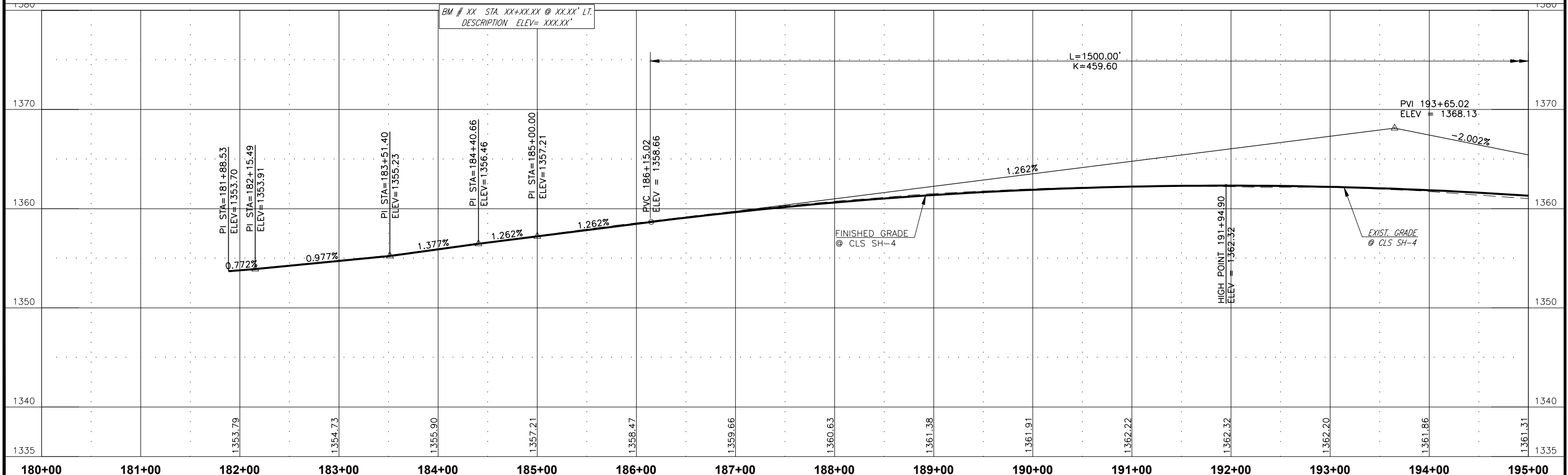
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CURVE NO. 1
 NB CROSSOVER @ BOP
 P.I. STA. 183+77.76
 N: 693530.2020
 E: 2050045.5858
 R = 12900.000'
 T = 491.930'
 Δ = 4°22'03.84"
 L = 983.384'
 C = 983.146'
 D = 0'26'38.95"
 eMAX = 0.08
 V = 65 MPH
 S = 2.0% (NC)

CURVE NO. 2
 NB CROSSOVER @ BOP
 P.I. STA. 193+75.22
 N: 694517.4226
 E: 2050191.4044
 R = 12900.000'
 T = 491.930'
 Δ = 4°22'03.84"
 L = 983.384'
 C = 983.146'
 D = 0'26'38.95"
 eMAX = 0.08
 V = 70 MPH
 S = 2.0% (NC)

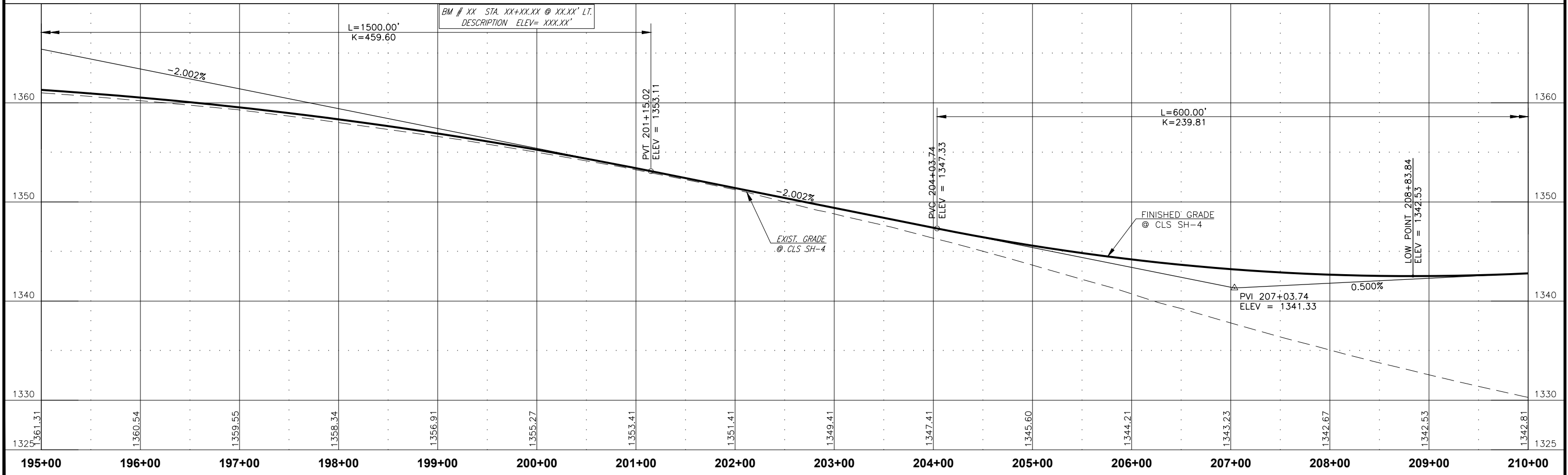
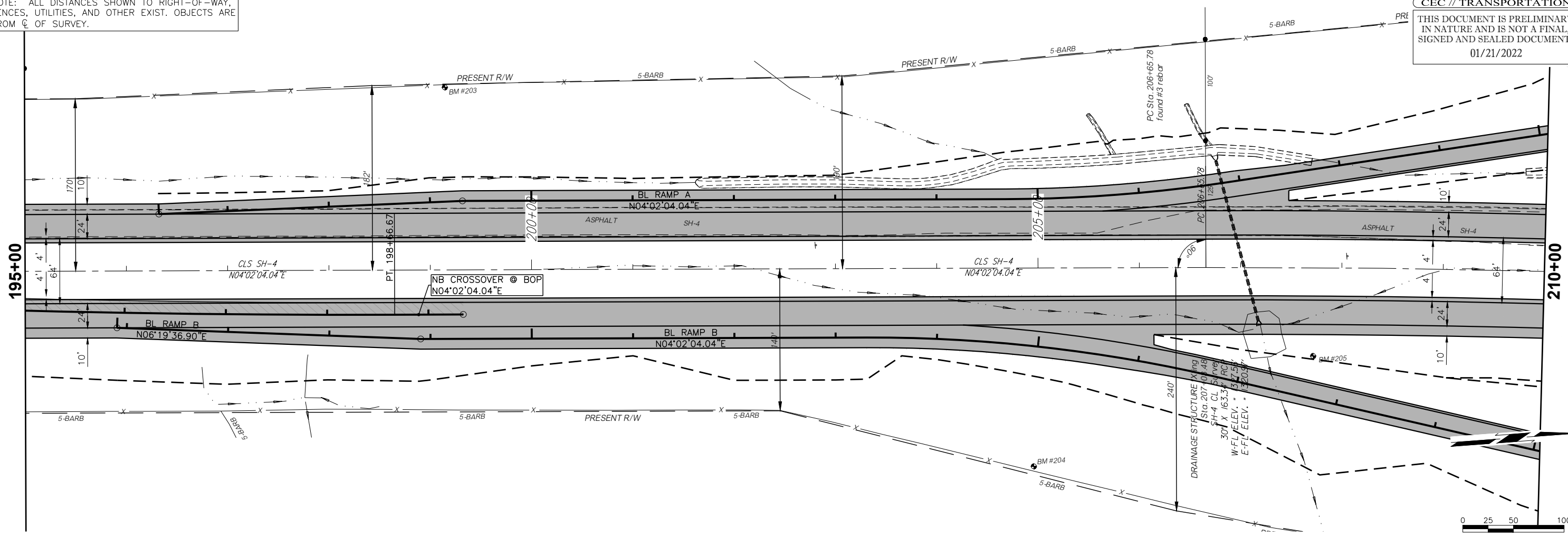


ALT. 3B2 INTERCHANGE SH-4 OVER FOX LANE ON EXISTING P&P CLS SH-4

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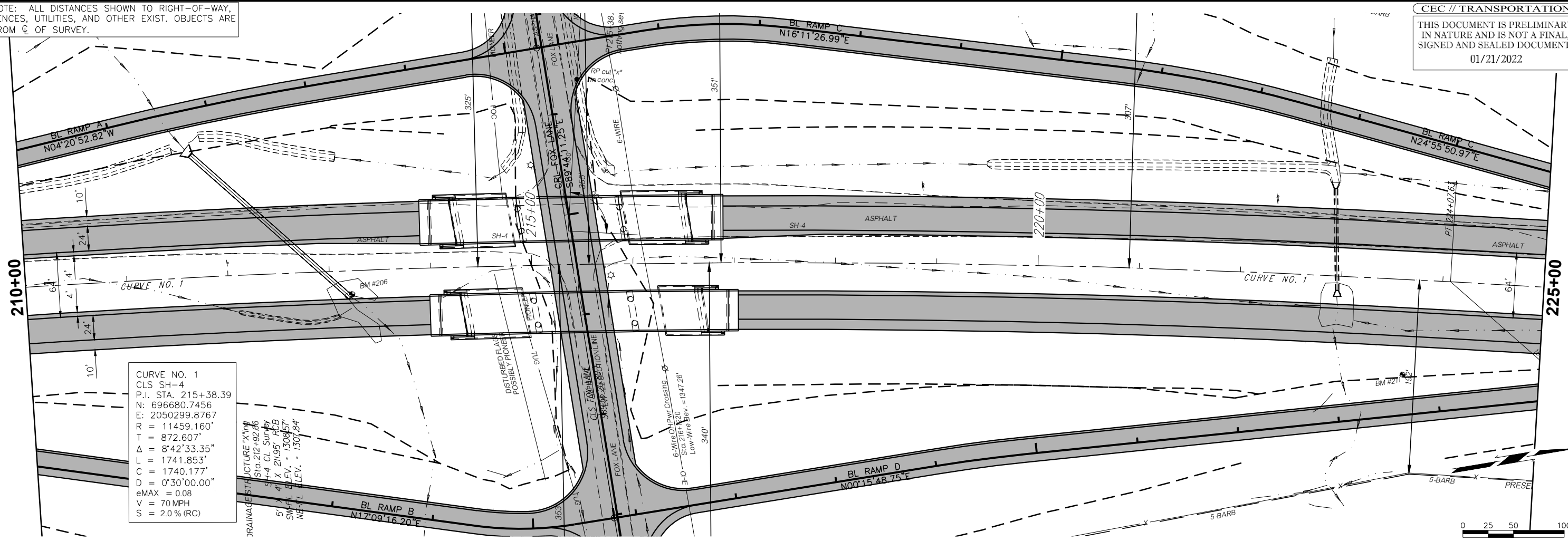
01/21/2022



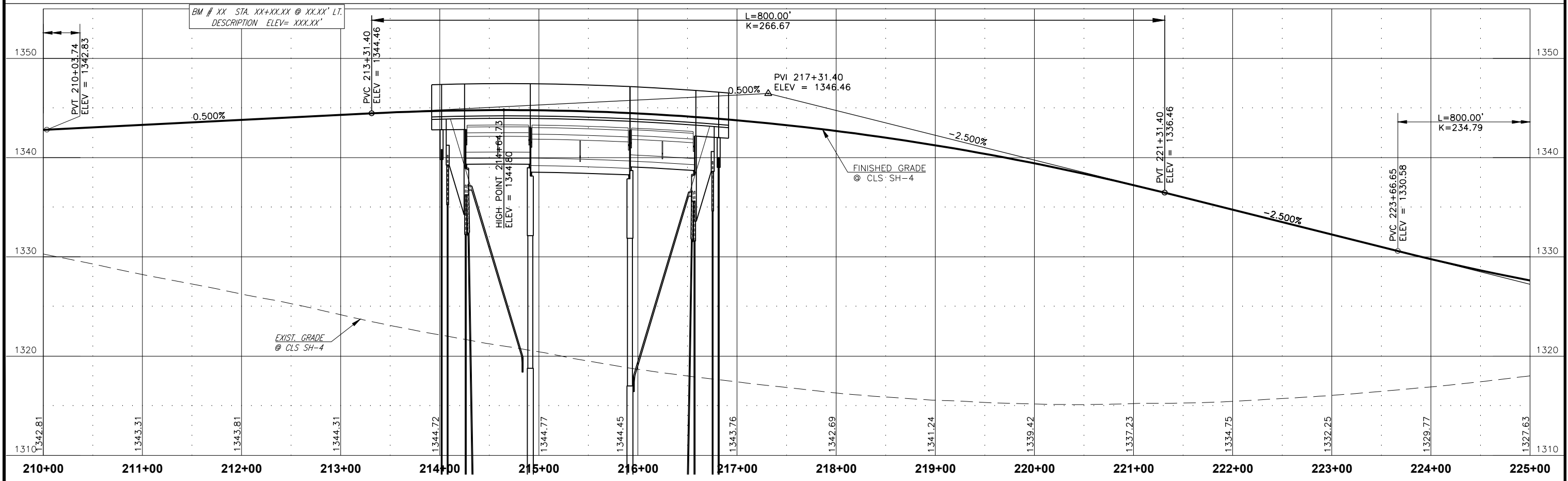
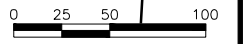
ALT. 3B2 INTERCHANGE SH-4 OVER FOX LANE ON EXISTING P&P CLS SH-4

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM \varnothing OF SURVEY.

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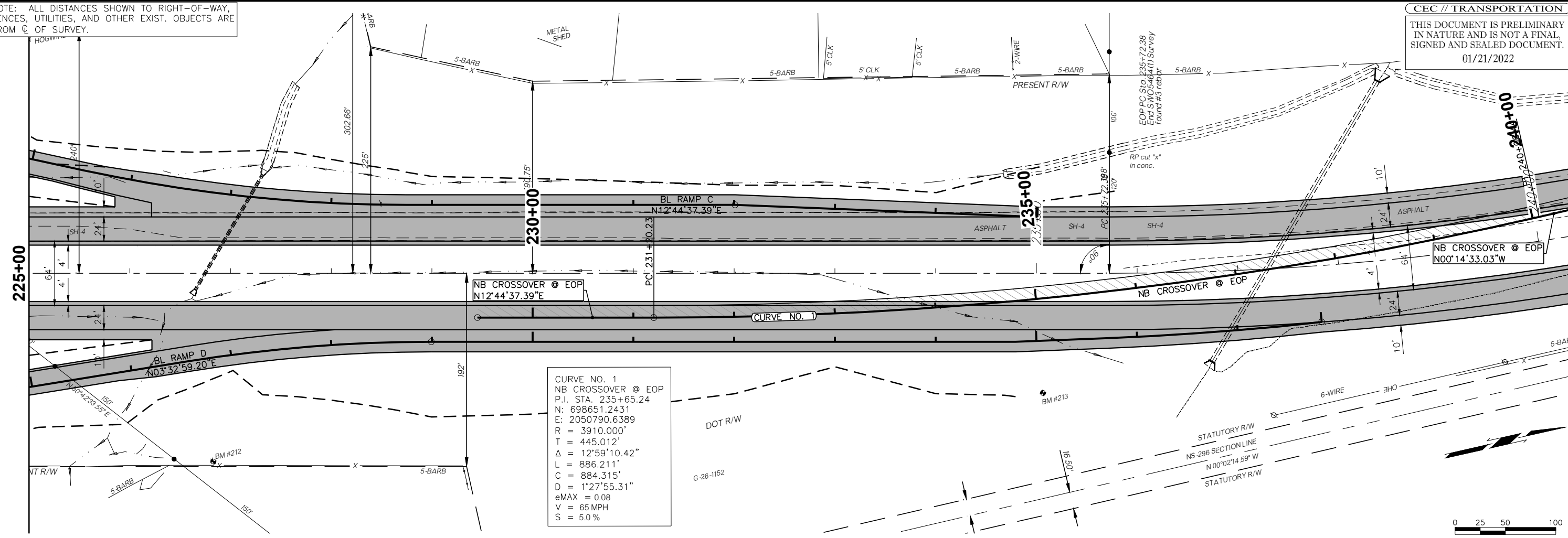
CURVE NO. 1
CLS SH-4
P.I. STA. 215+38.39
N: 696680.7456
E: 2050299.8767
R = 11459.160'
T = 872.607'
 Δ = 8°42'33.35"
L = 1741.853'
C = 1740.177'
D = 0°30'00.00"
eMAX = 0.08
V = 70 MPH
S = 2.0% (RC)



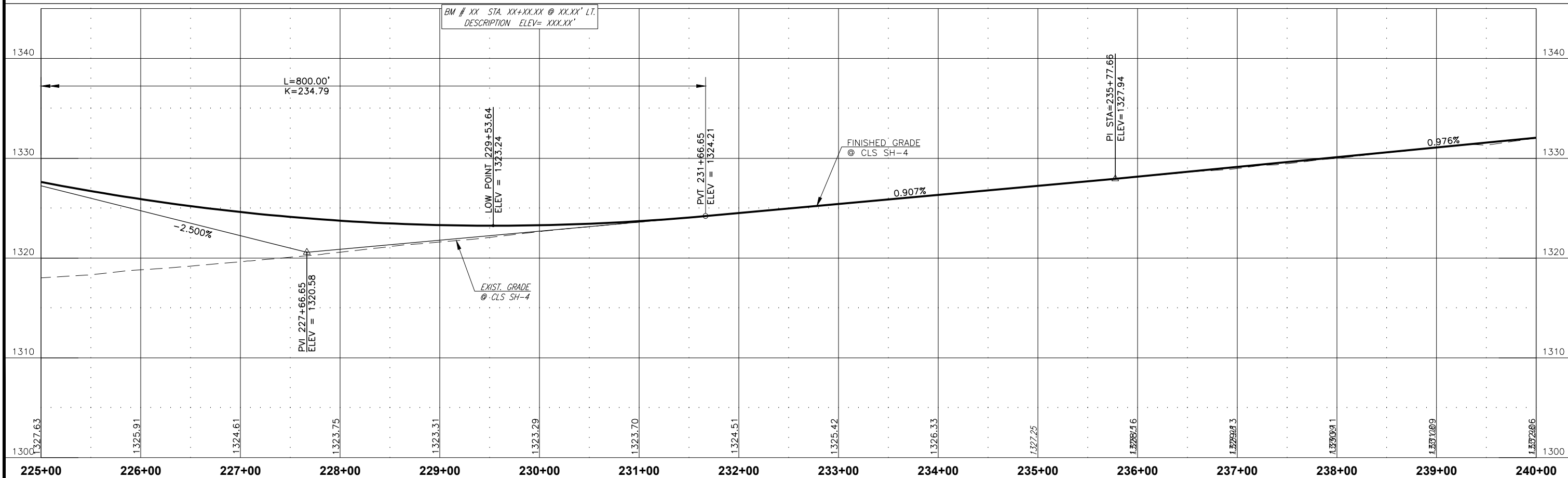
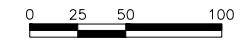
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CURVE NO. 1
 NB CROSSOVER @ EOP
 P.I. STA. 235+65.24
 N: 698651.2431
 E: 2050790.6389
 R = 3910.000'
 T = 445.012'
 Δ = 12°59'10.42"
 L = 886.211'
 C = 884.315'
 D = 1'27"55.31"
 eMAX = 0.08
 V = 65 MPH
 S = 5.0 %

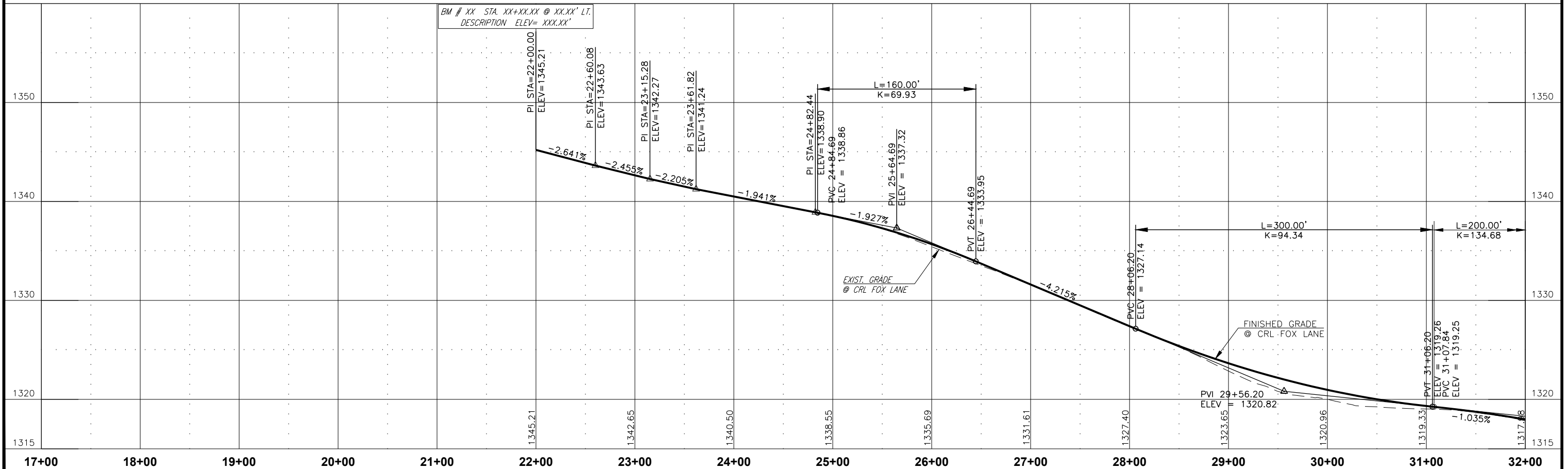
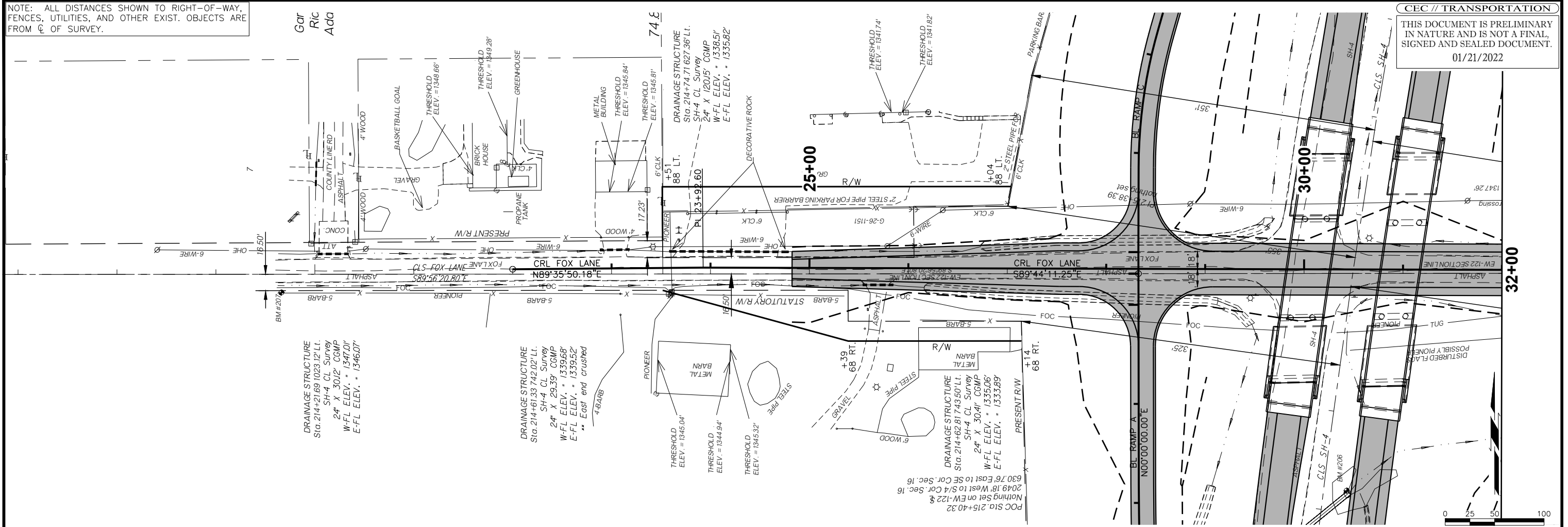


ALT. 3B2 INTERCHANGE SH-4 OVER FOX LANE ON EXISTING P&P CLS SH-4

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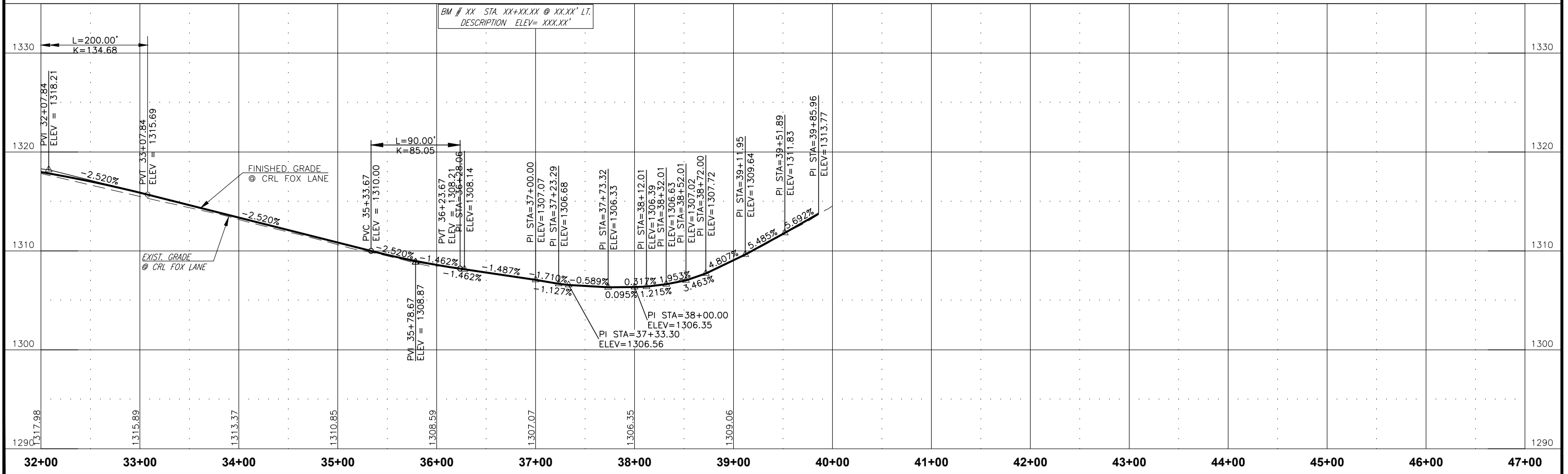
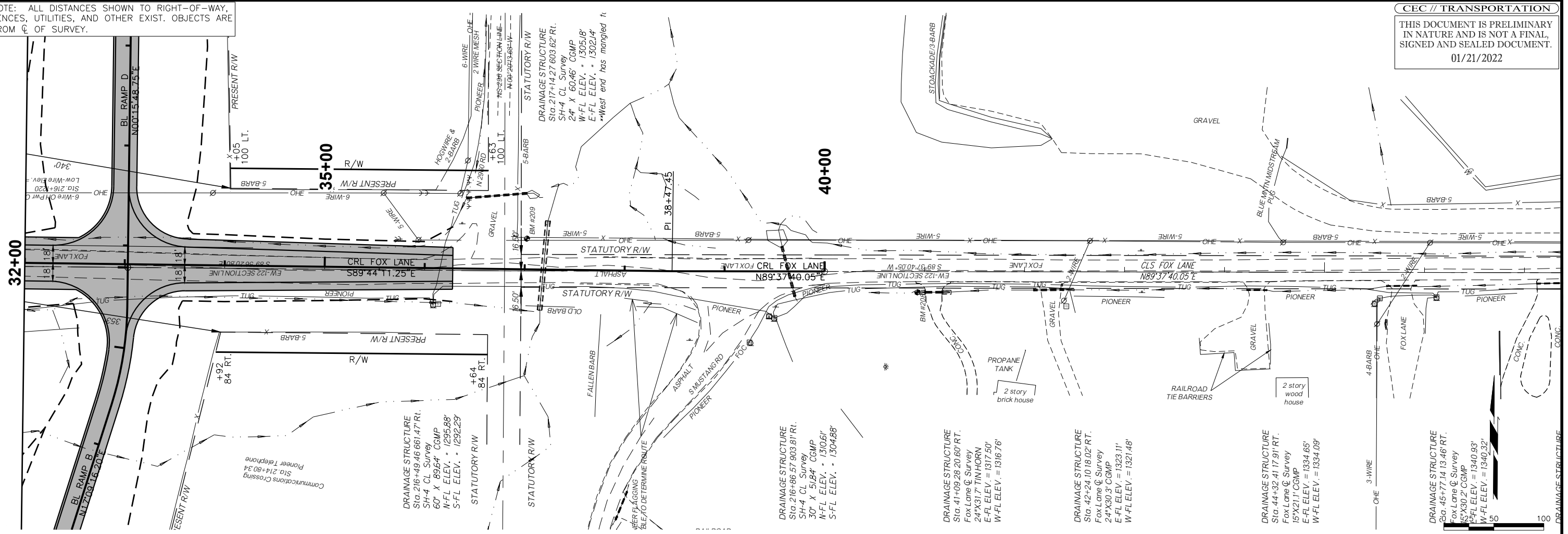


ALT. 3B2 INTERCHANGESH-4 OVER FOX LANE ON EXISTING P&P CRL FOX LANE

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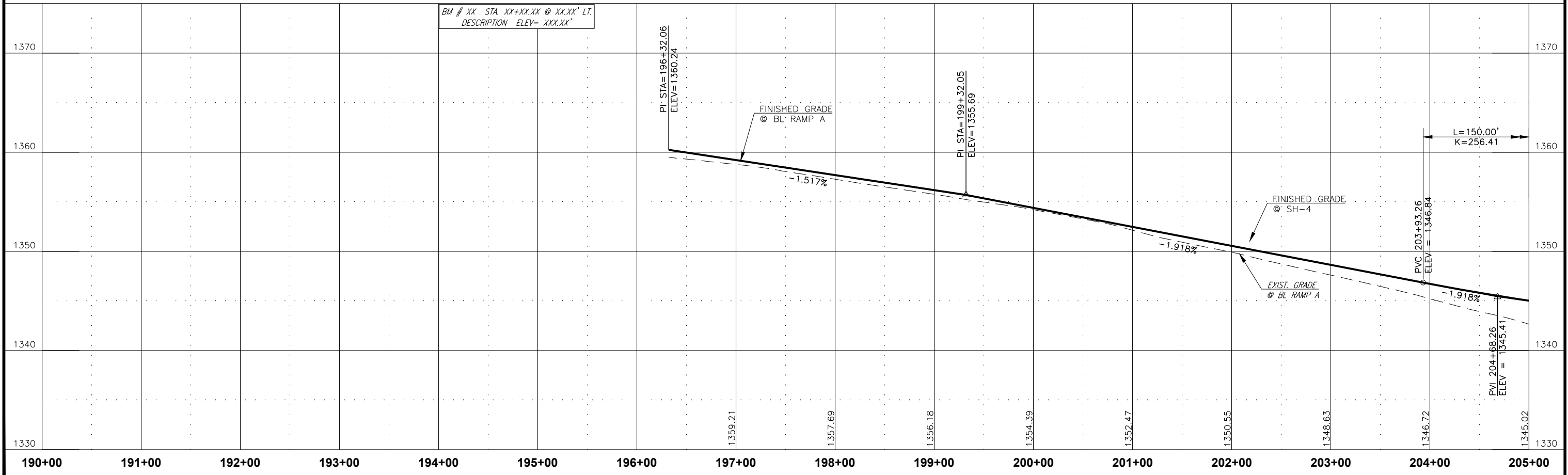
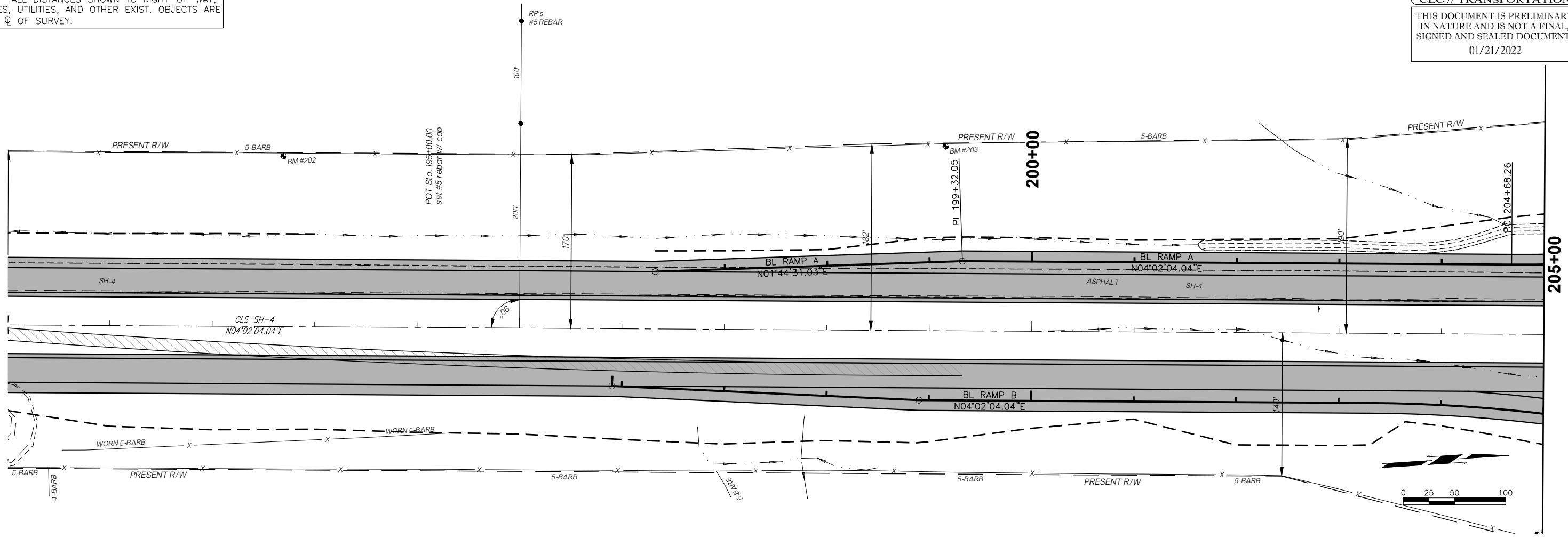


ALT. 3B2 INTERCHANGESH-4 OVER FOX LANE ON EXISTING P&P CRL FOX LANE

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.

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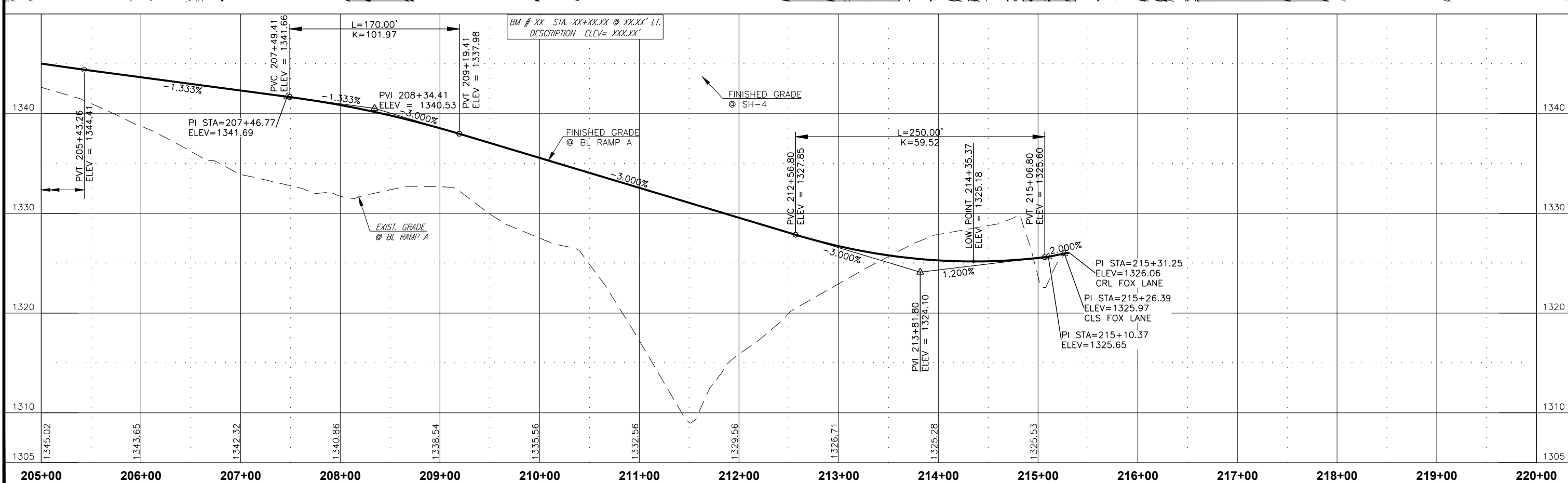
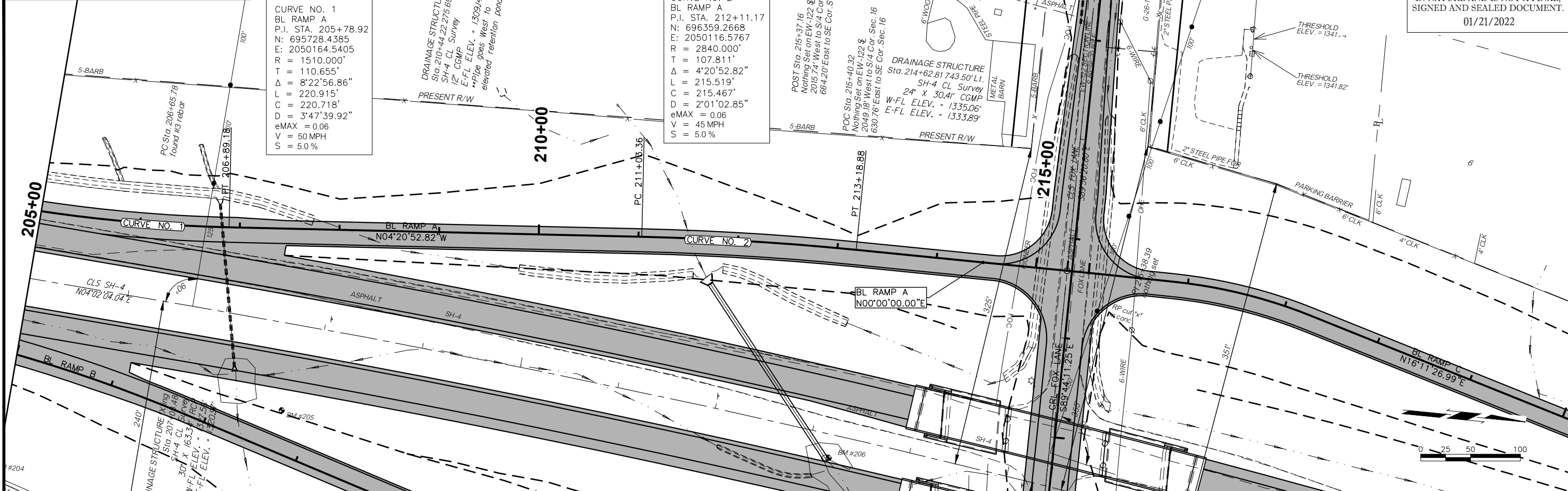


BM # XX STA. XX+XX.XX @ XX.XX' LT. DESCRIPTION ELEV= XXX.XX'

ALT. 3B2 INTERCHANGE SH-4 OVER FOX LANE ON EXISTING P&P BL RAMP A

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM \odot OF SURVEY.

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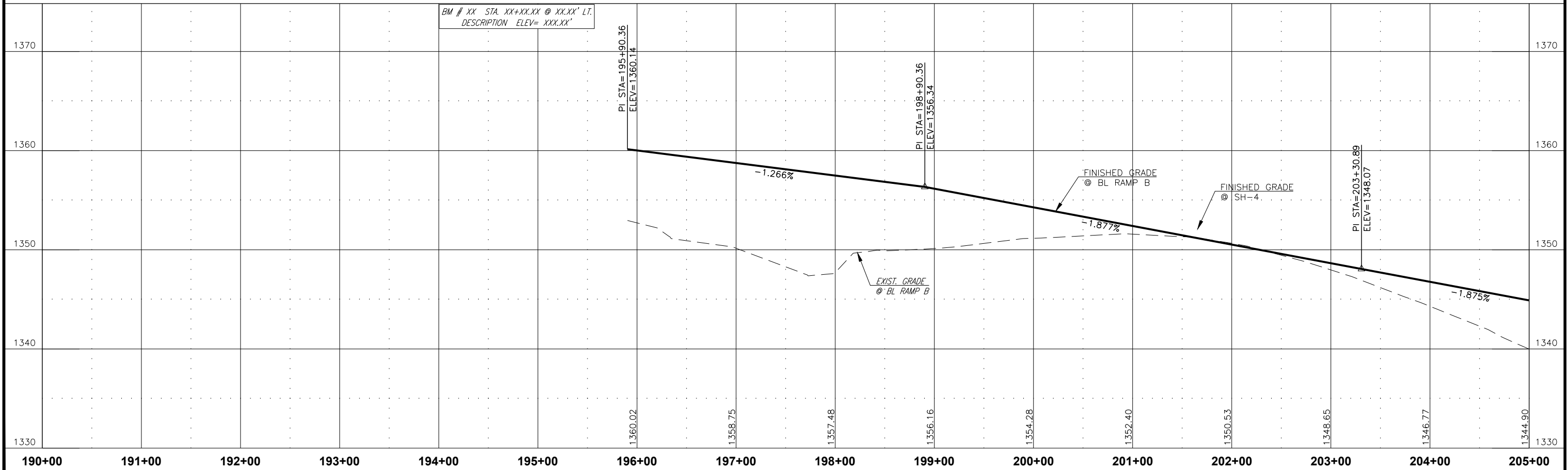
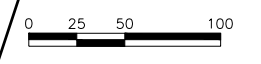
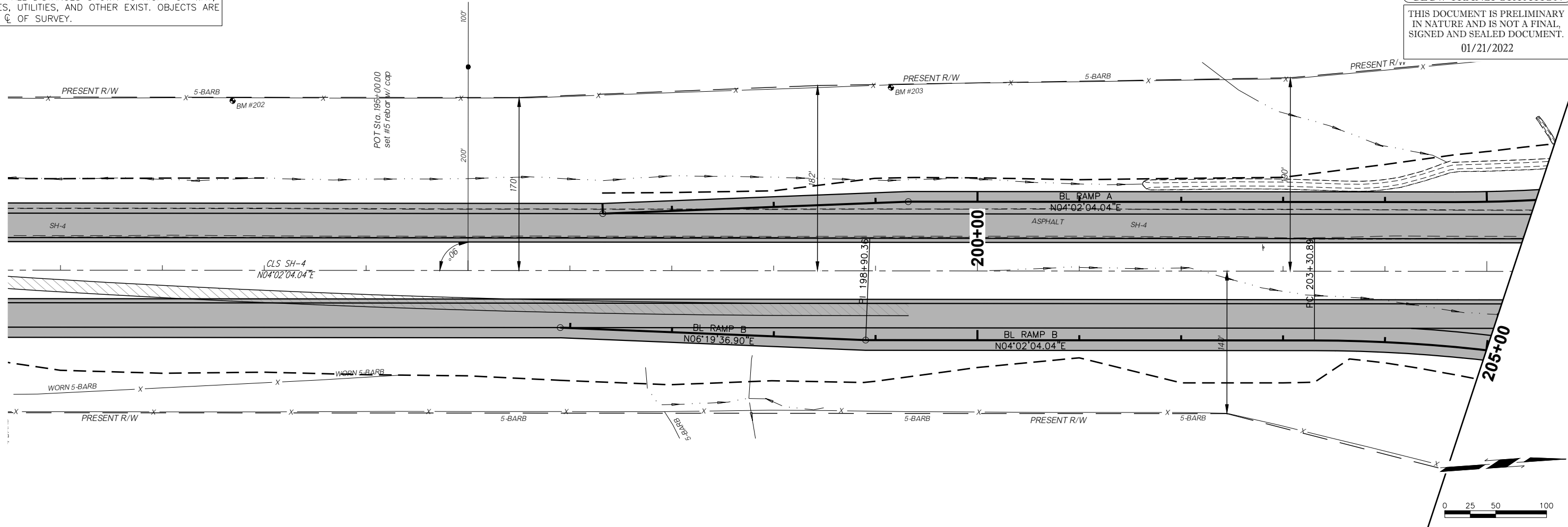


ALT. 3B2 INTERCHANGE SH-4 OVER FOX LANE ON EXISTING P&P BL RAMP A

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM \odot OF SURVEY.

THIS DOCUMENT IS PRELIMINARY IN NATURE AND IS NOT A FINAL, SIGNED AND SEALED DOCUMENT.

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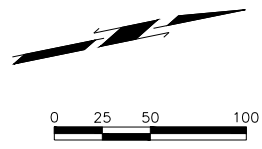
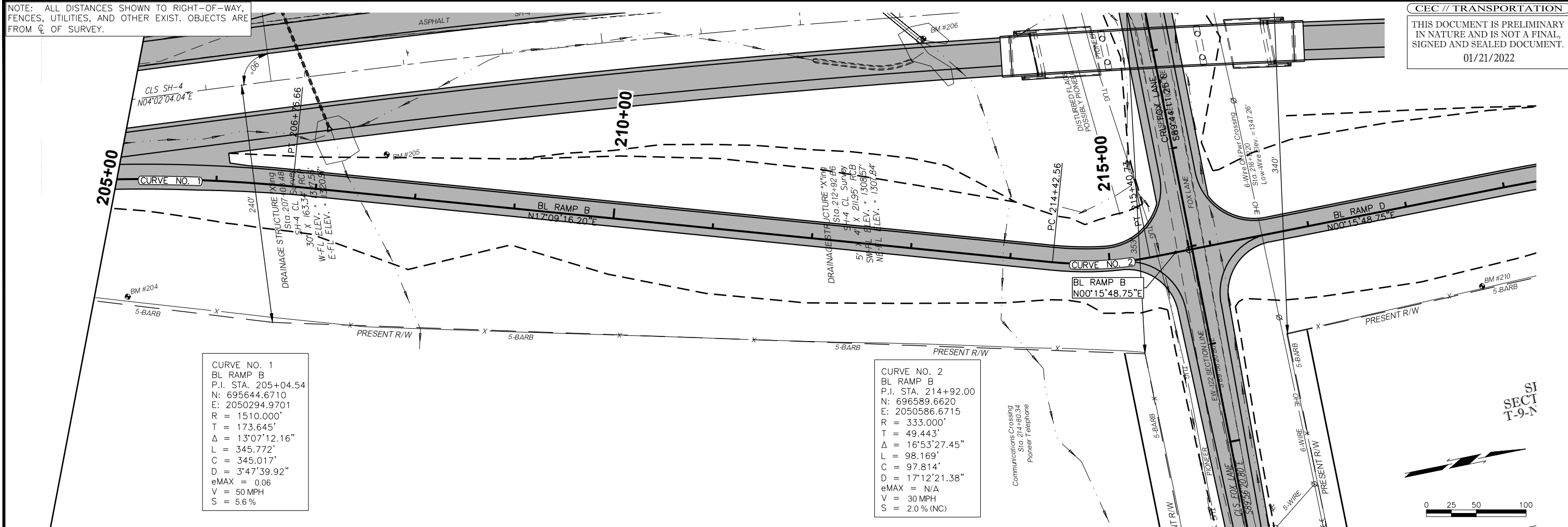


BM # XX STA. XX+XX.XX @ XX.XX' LT.
DESCRIPTION ELEV= XXX.XX'

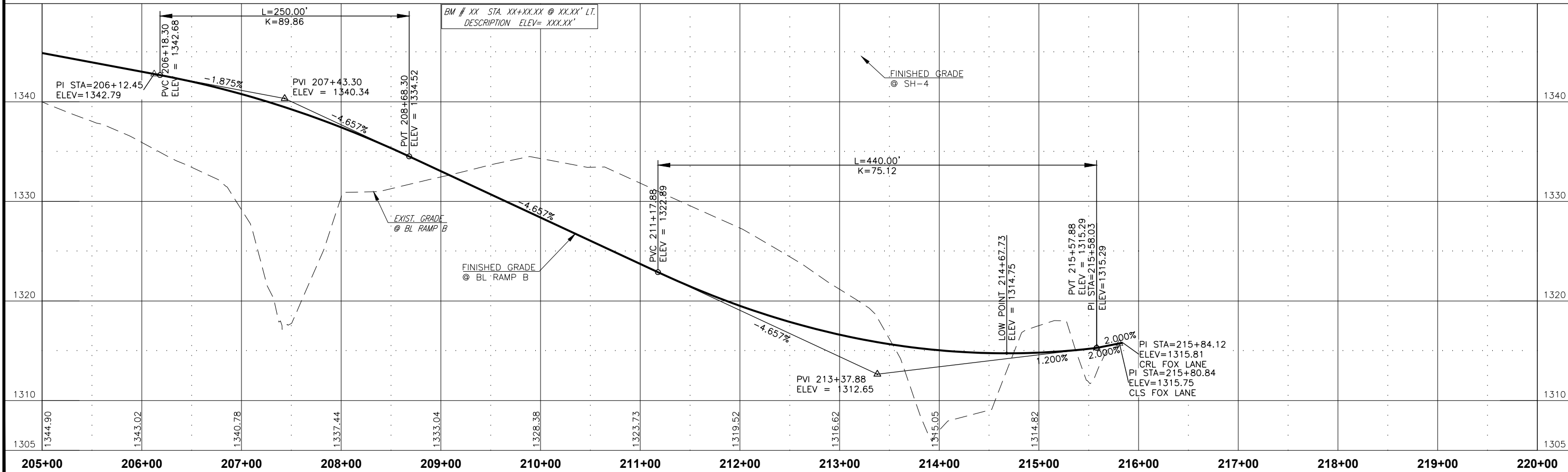
NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.

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SECT
T-9-N



ALT. 3B2 INTERCHANGE SH-4 OVER FOX LANE ON EXISTING P&P BL RAMP B

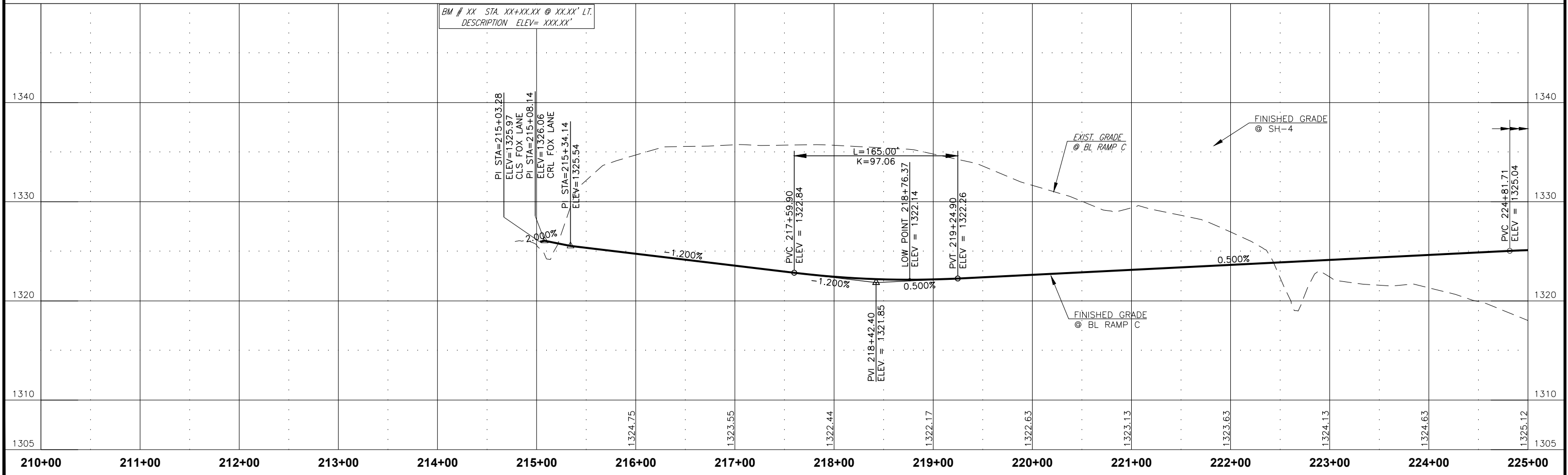
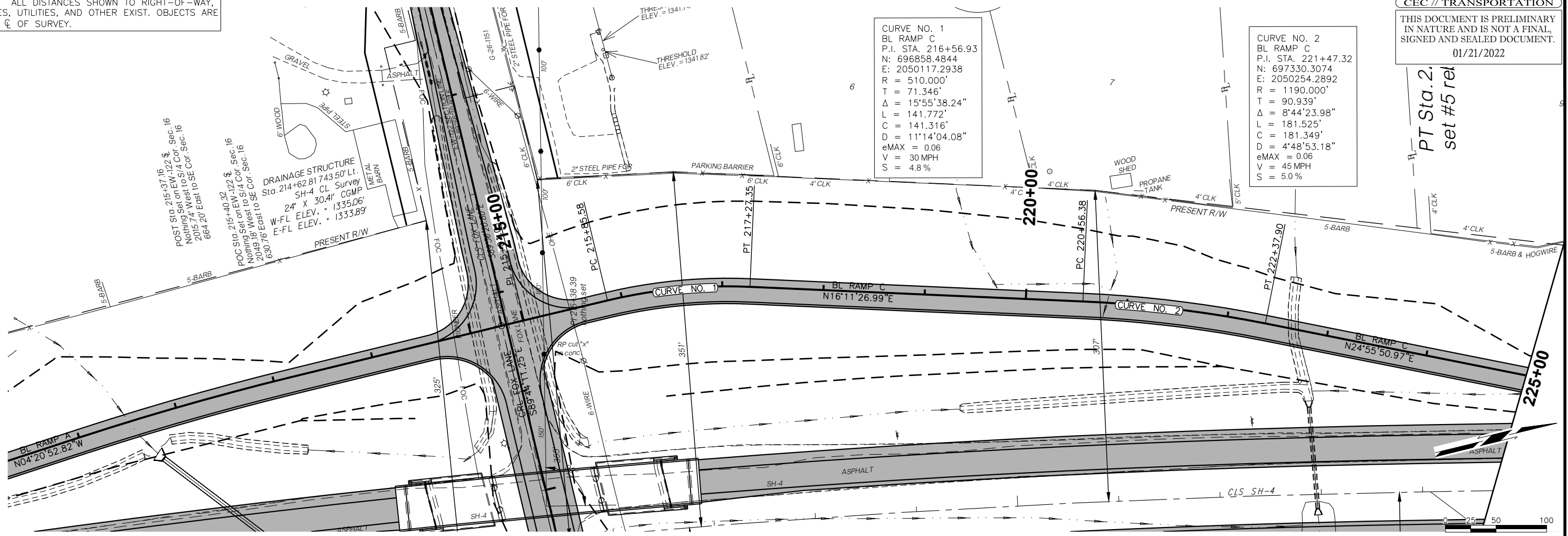
NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM \odot OF SURVEY.

THIS DOCUMENT IS PRELIMINARY IN NATURE AND IS NOT A FINAL, SIGNED AND SEALED DOCUMENT.
01/21/2022

CURVE NO. 1
BL RAMP C
P.I. STA. 216+56.93
N: 696858.4844
E: 2050117.2938
R = 510.000'
T = 71.346'
 $\Delta = 15^{\circ}55'38.24''$
L = 141.772'
C = 141.316'
D = 11'14"04.08"
eMAX = 0.06
V = 30 MPH
S = 4.8%

CURVE NO. 2
BL RAMP C
P.I. STA. 221+47.32
N: 697330.3074
E: 2050254.2892
R = 1190.000'
T = 90.939'
 $\Delta = 8^{\circ}44'23.98''$
L = 181.525'
C = 181.349'
D = 4'48"53.18"
eMAX = 0.06
V = 45 MPH
S = 5.0%

PT Sta. 2.2
set #5 rel

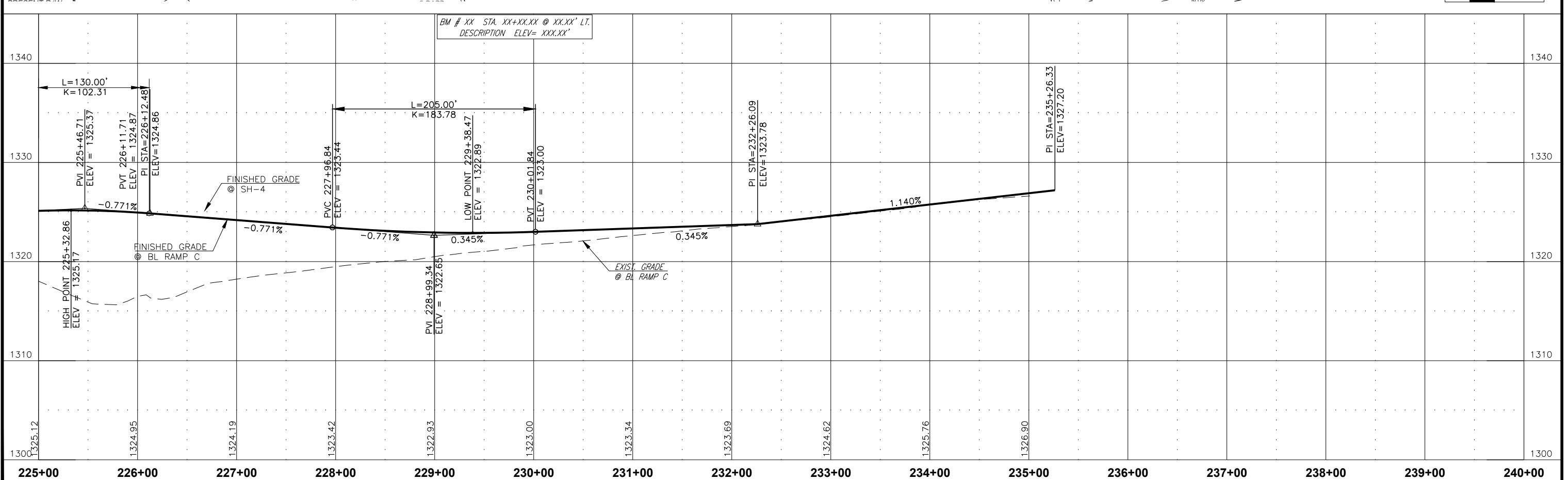
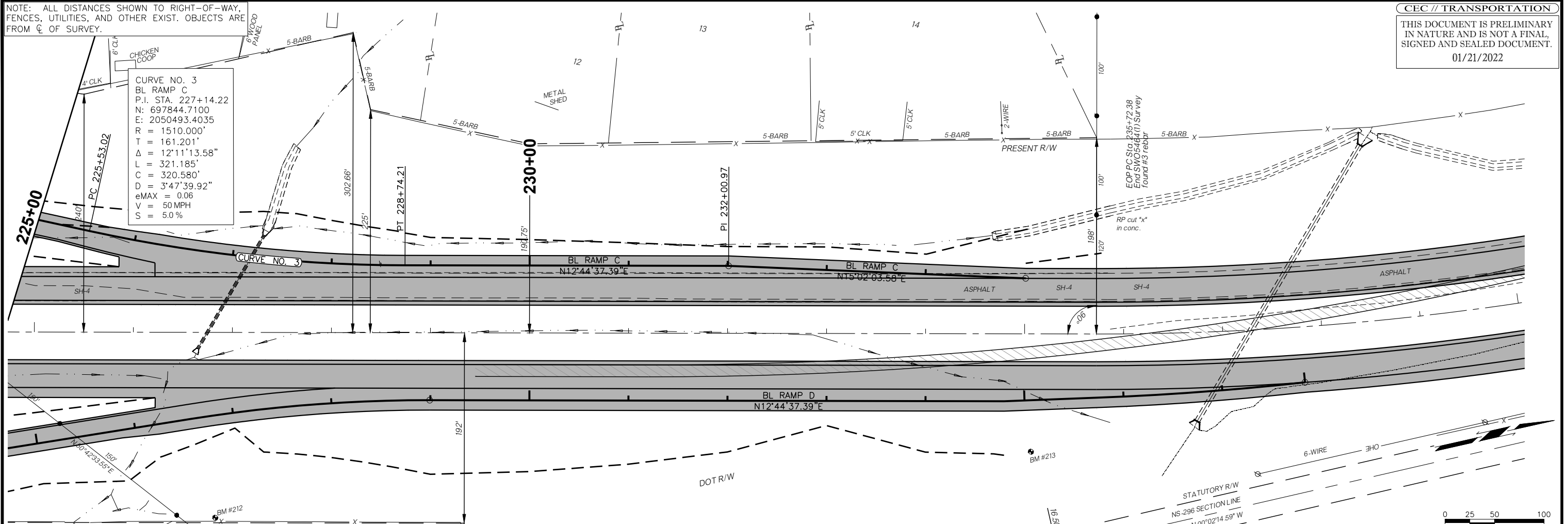


BM # XX STA. XX+XX.XX @ XX.XX' LT.
DESCRIPTION ELEV = XXX.XX'

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM \odot OF SURVEY.

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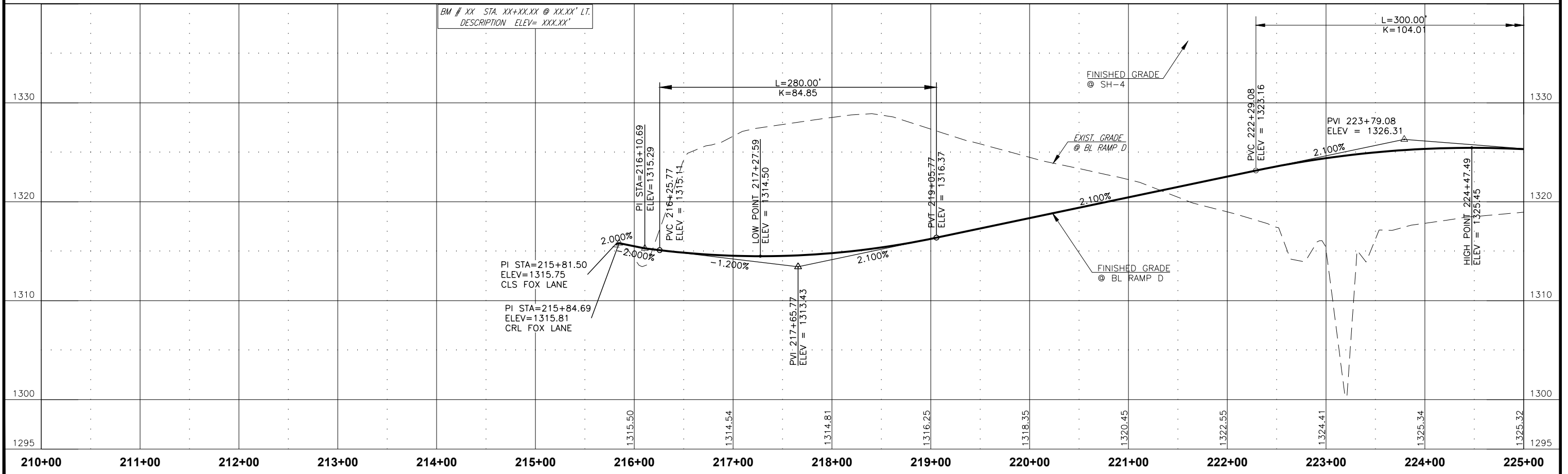
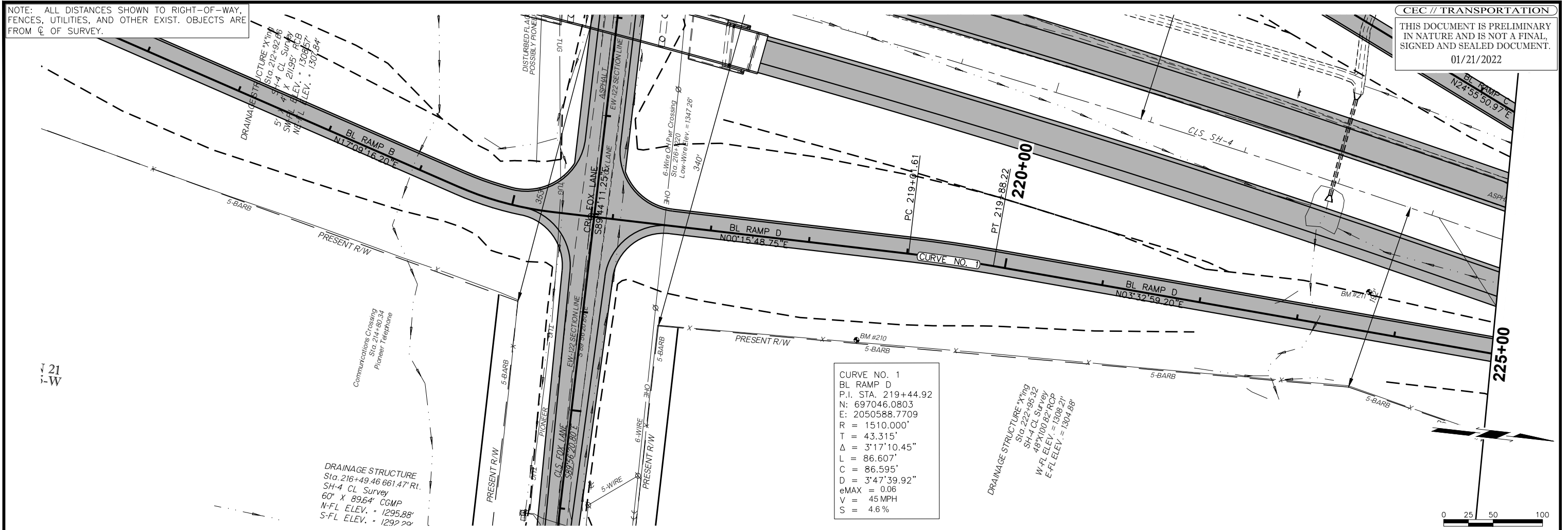
ALT. 3B2 INTERCHANGE SH-4 OVER FOX LANE ON EXISTING P&P BL RAMP C

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.

CEC // TRANSPORTATION

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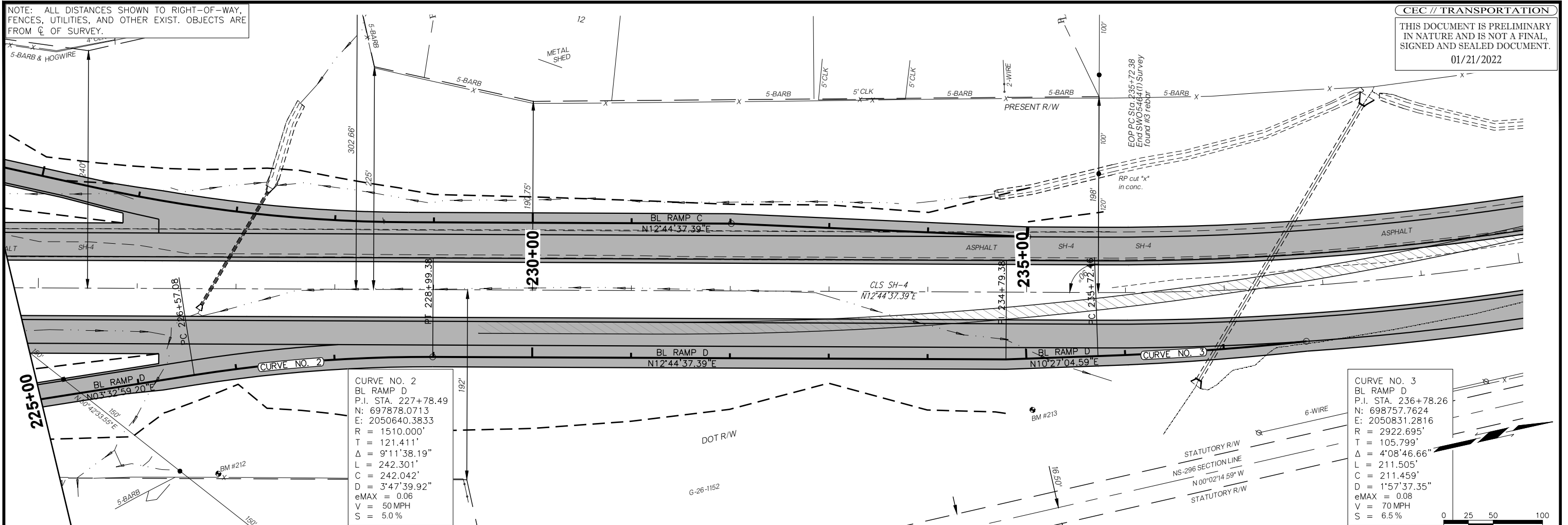
01/21/2022



NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM ϕ OF SURVEY.

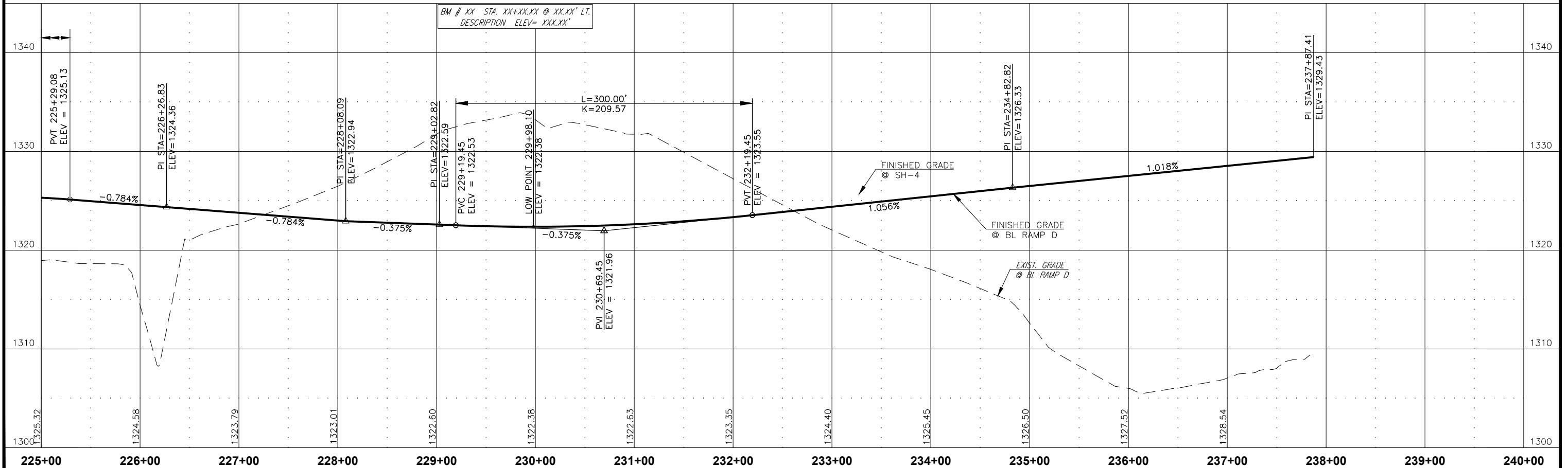
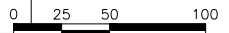
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01/21/2022



CURVE NO. 2
 BL RAMP D
 P.I. STA. 227+78.49
 N: 697878.0713
 E: 2050640.3833
 R = 1510.000'
 T = 121.411'
 Δ = 9°11'38.19"
 L = 242.301'
 C = 242.042'
 D = 3'47"39.92"
 eMAX = 0.06
 V = 50 MPH
 S = 5.0 %

CURVE NO. 3
 BL RAMP D
 P.I. STA. 236+78.26
 N: 698757.7624
 E: 2050831.2816
 R = 2922.695'
 T = 105.799'
 Δ = 4°08'46.66"
 L = 211.505'
 C = 211.459'
 D = 1'57"37.35"
 eMAX = 0.08
 V = 70 MPH
 S = 6.5 %

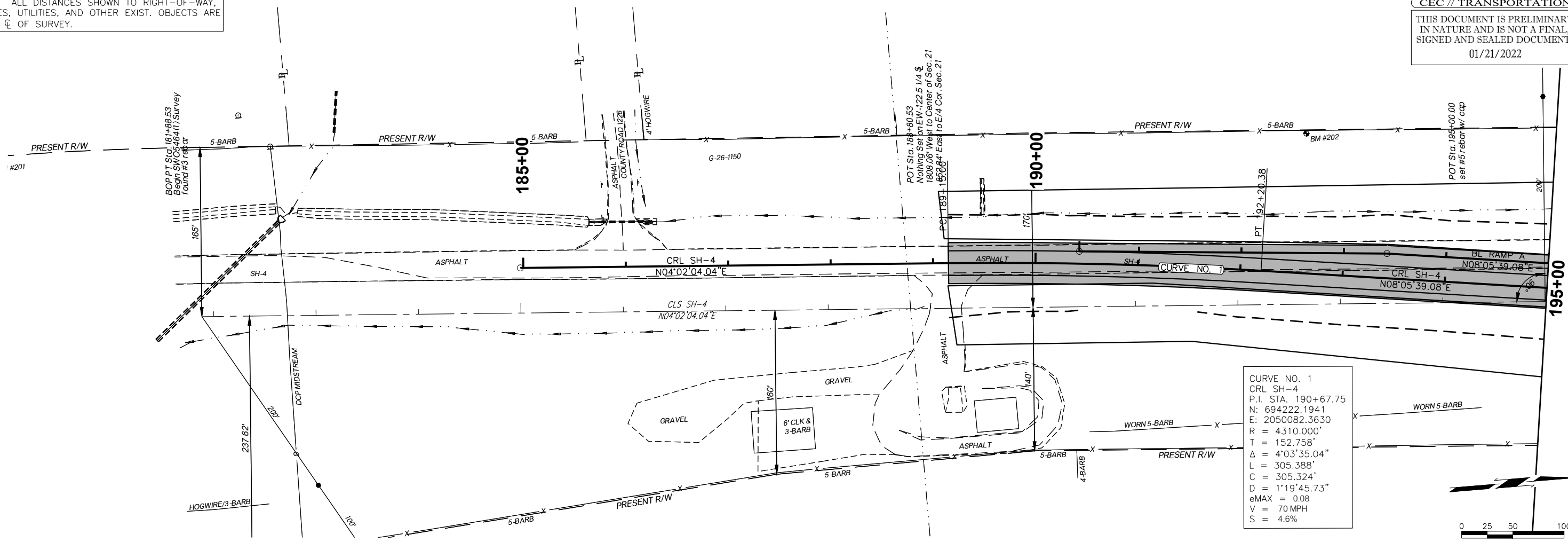


ALT. 3B2 INTERCHANGE SH-4 OVER FOX LANE ON EXISTING P&P BL RAMP D

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.

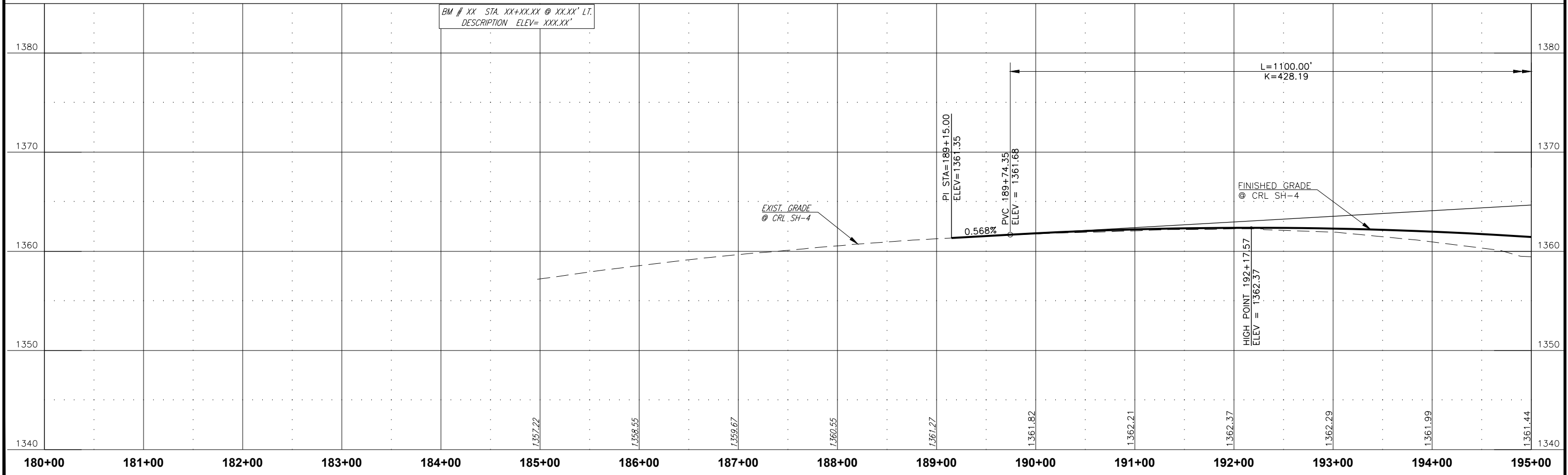
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CURVE NO. 1
 CRL SH-4
 P.I. STA. 190+67.75
 N: 694222.1941
 E: 2050082.3630
 R = 4310.000'
 T = 152.758'
 Δ = 4°03'35.04"
 L = 305.388'
 C = 305.324'
 D = 1°19'45.73"
 eMAX = 0.08
 V = 70 MPH
 S = 4.6%

BM # XX STA. XX+XX.XX @ XX.XX' LT.
 DESCRIPTION ELEV= XXX.XX'

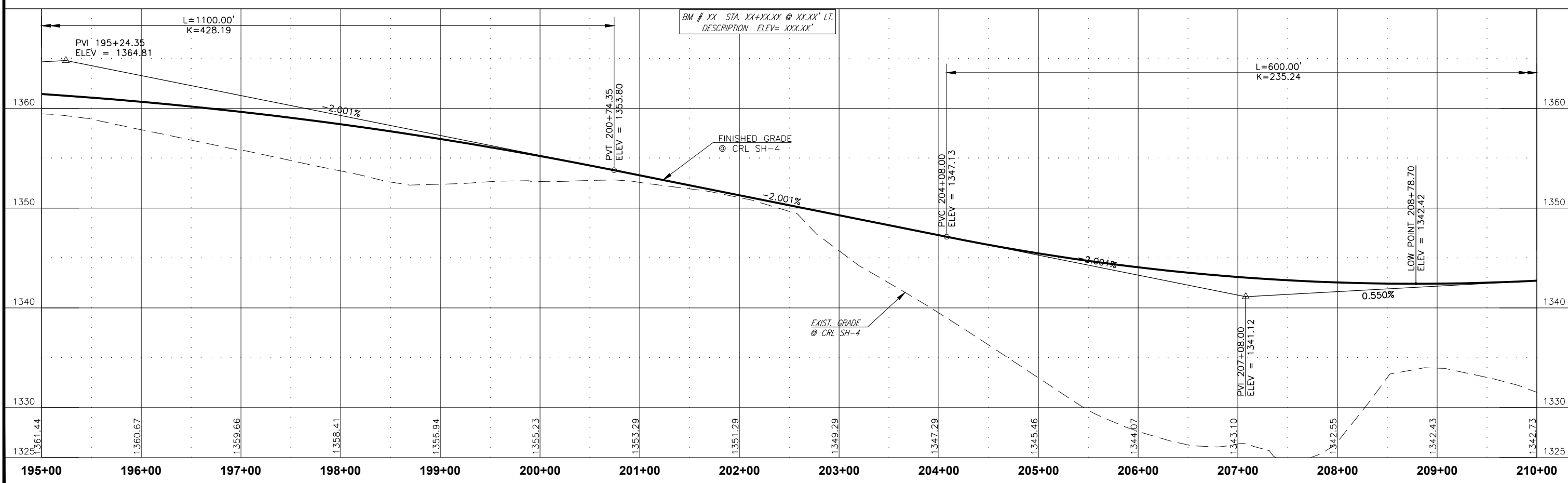
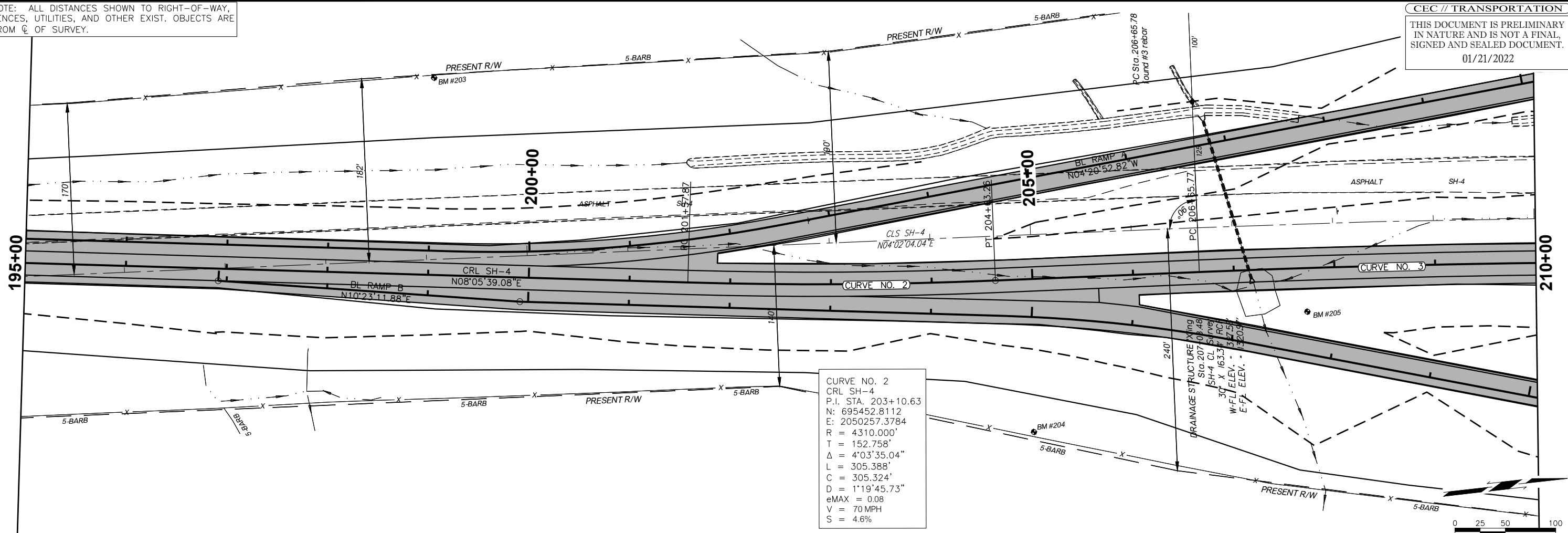


ALT. 3C INTERCHANGE SH-4 OVER FOX LANE OFFSET FROM EXISTING P&P CRL SH-4

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM ϕ OF SURVEY.

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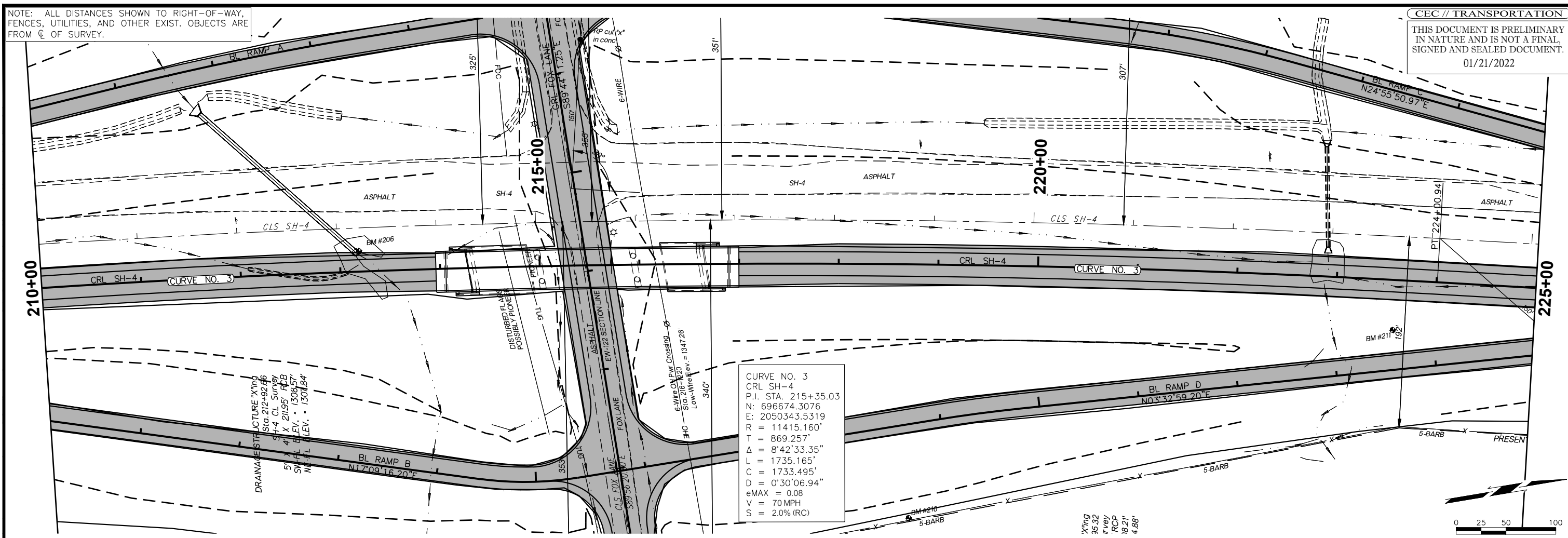
01/21/2022



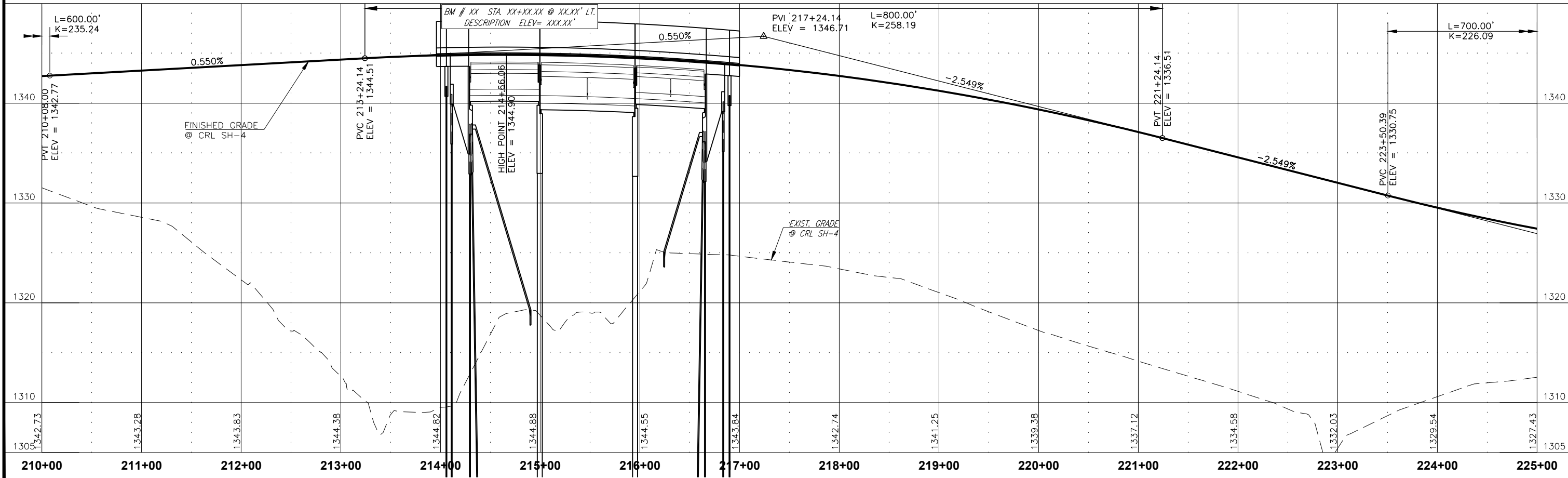
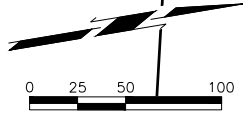
NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C.O. OF SURVEY.

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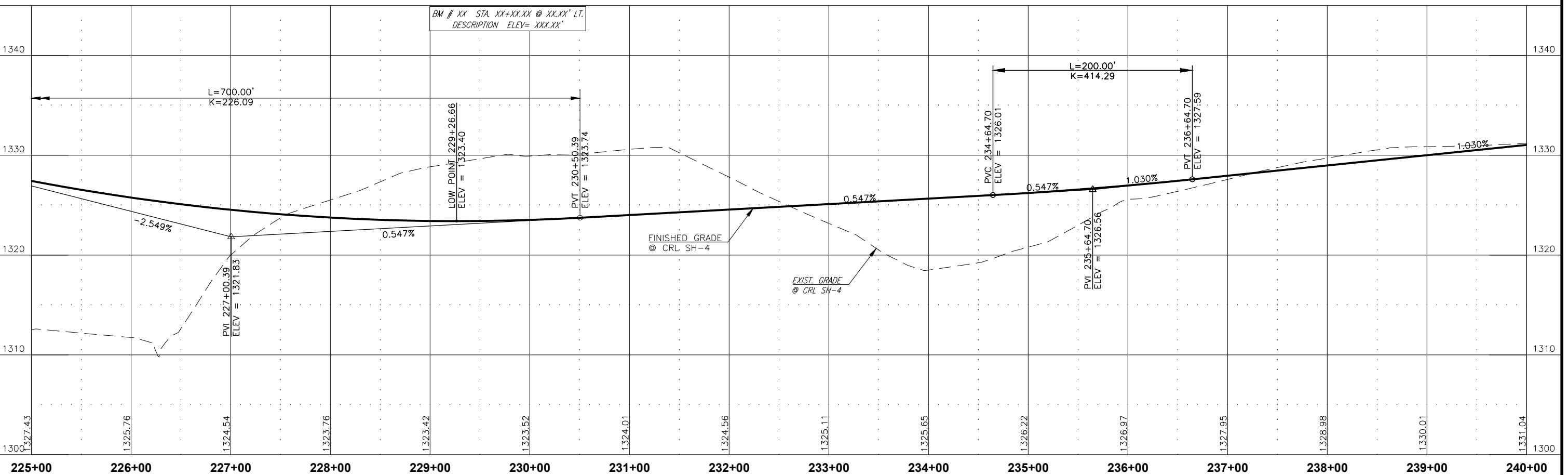
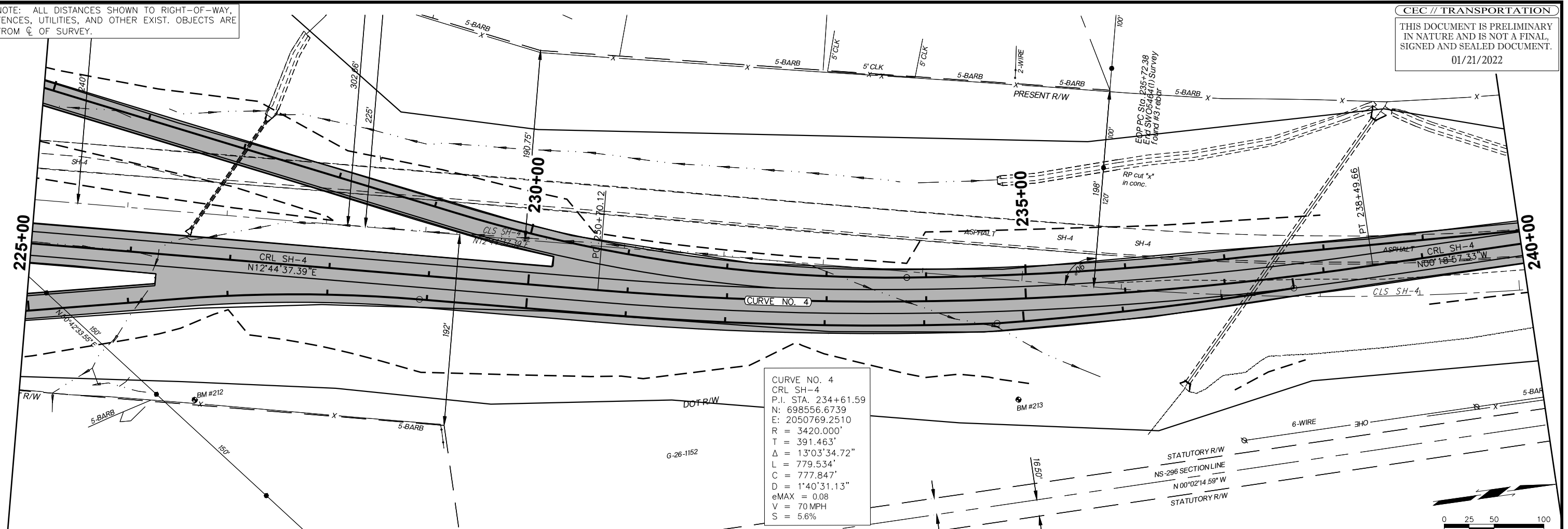
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CURVE NO. 3
 CRL SH-4
 P.I. STA. 215+35.03
 N: 696674.3076
 E: 2050343.5319
 R = 11415.160'
 T = 869.257'
 Δ = 8°42'33.35"
 L = 1735.165'
 C = 1733.495"
 D = 0°30'06.94"
 eMAX = 0.08
 V = 70 MPH
 S = 2.0% (RC)



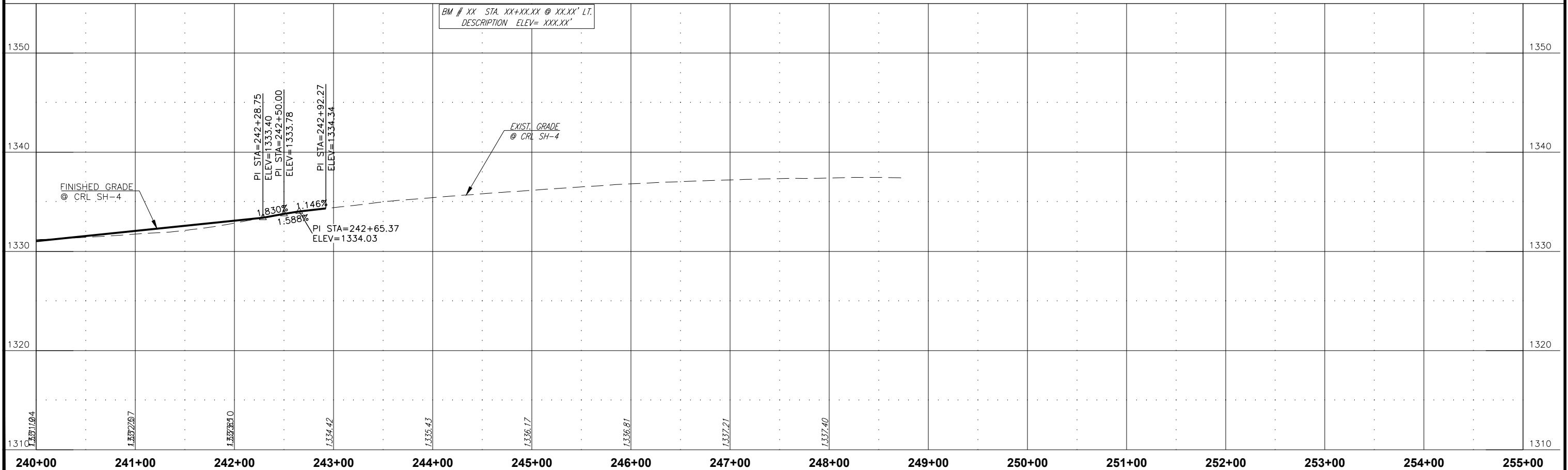
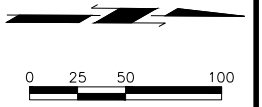
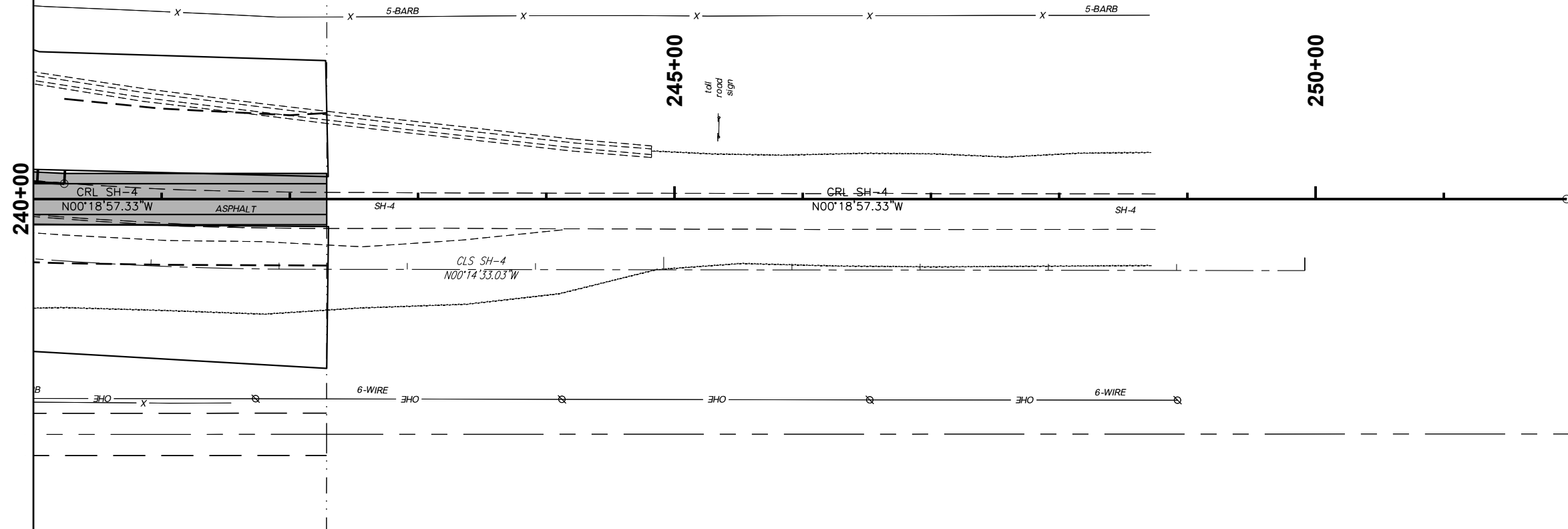
NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM ϕ OF SURVEY.



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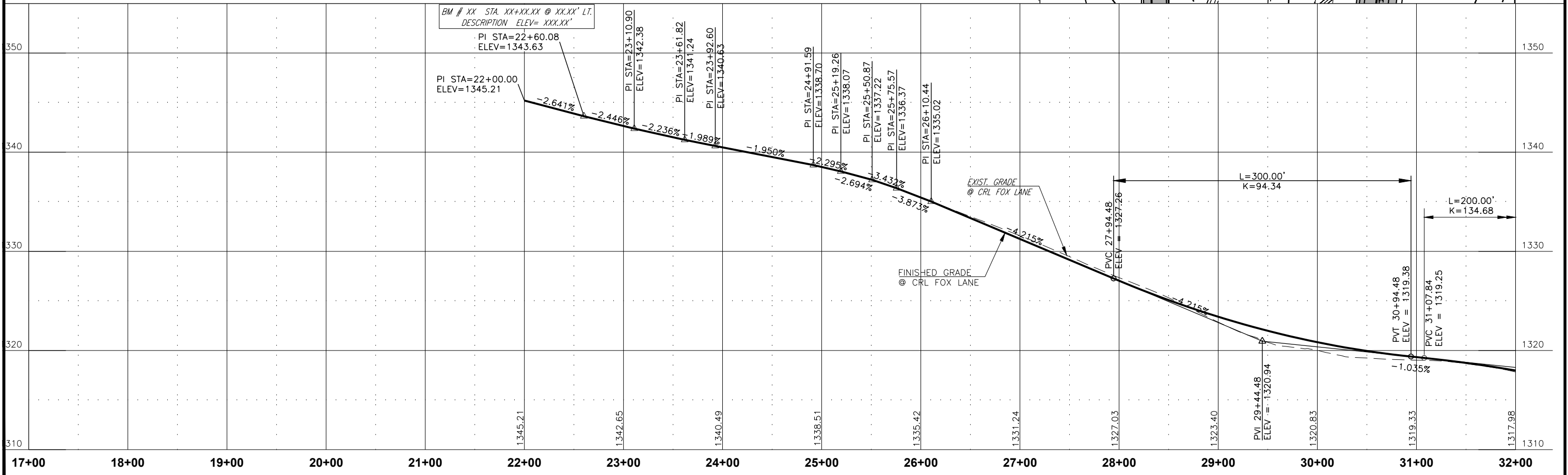
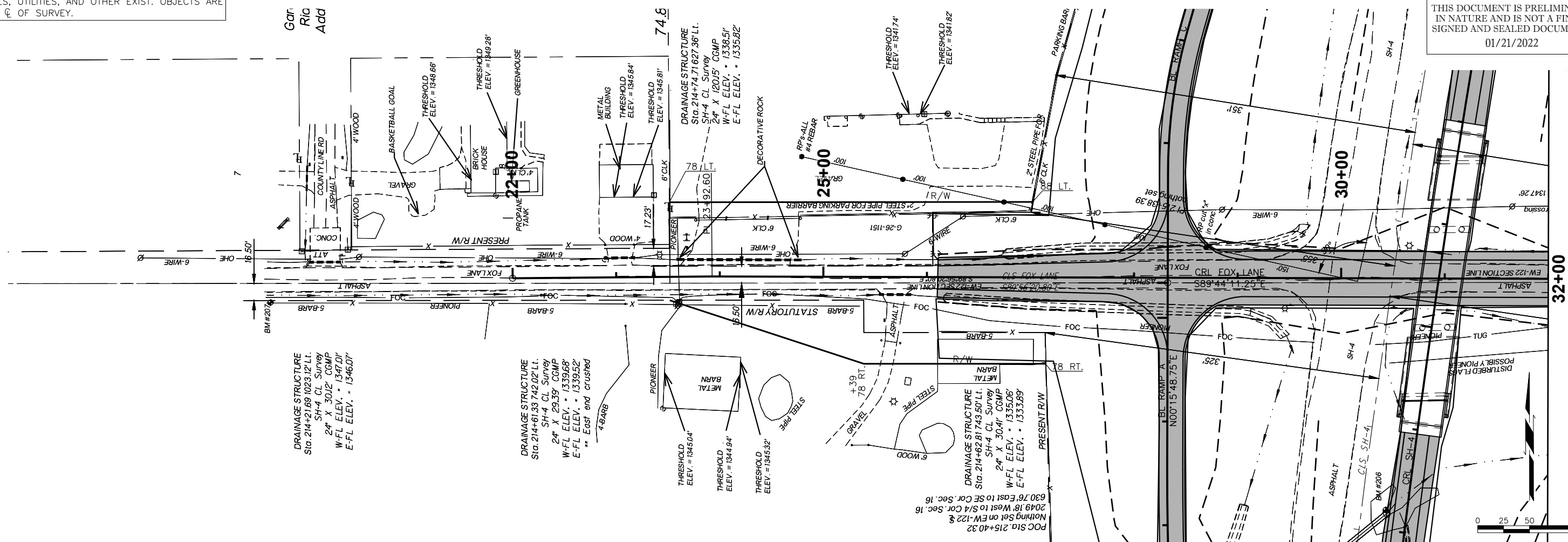
BM # XX STA. XX+XX.XX @ XX.XX' LT.
DESCRIPTION ELEV= XXX.XX'

ALT. 3C INTERCHANGE SH-4 OVER FOX LANE OFFSET FROM EXISTING P&P CRL SH-4

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM ϕ OF SURVEY.

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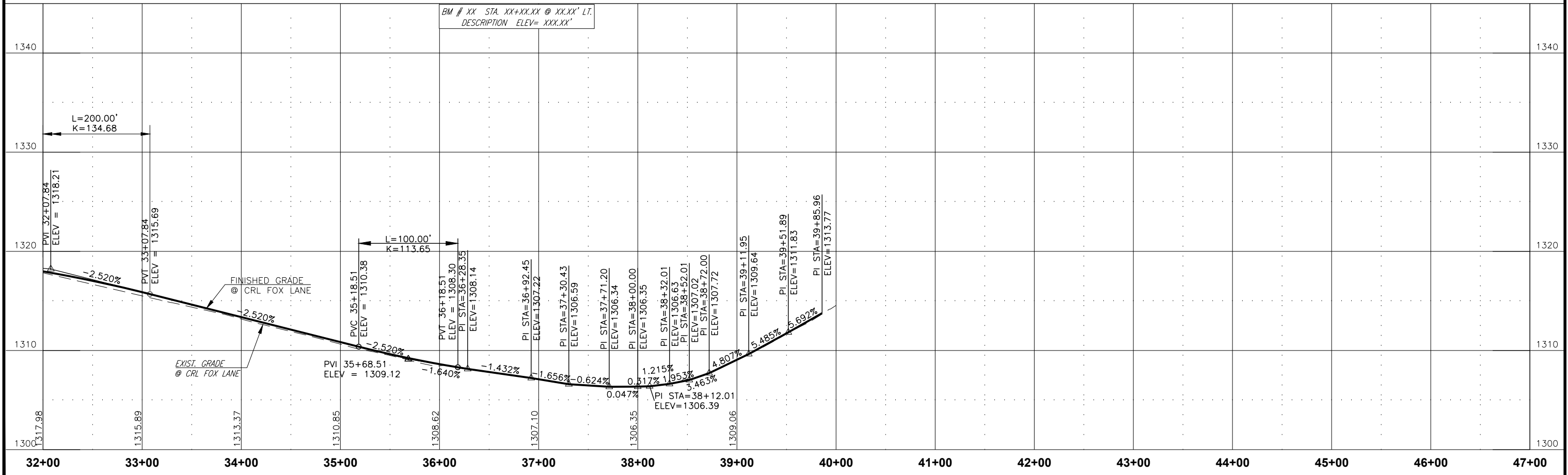
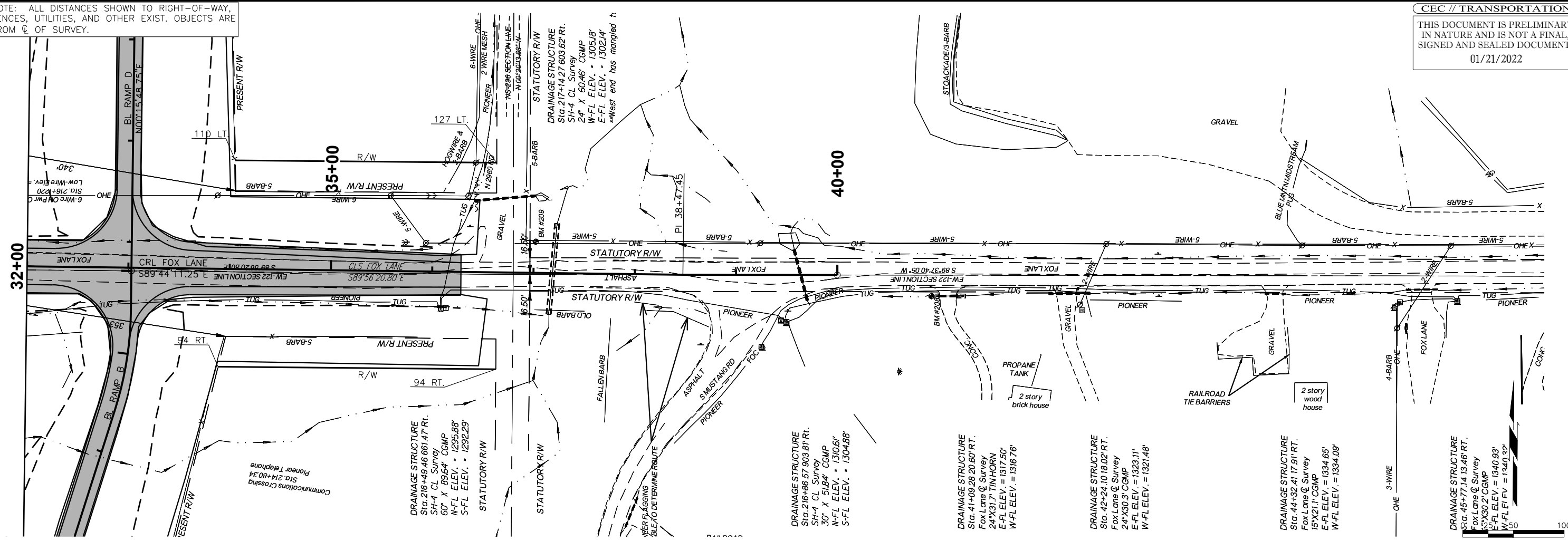


ALT. 3C INTERCHANGE SH-4 OVER FOX LANE OFFSET FROM EXISTING P&P CRL FOX LANE

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C. OF SURVEY.

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BM # XX STA. XX+XX.XX @ XX.XX' LT.
DESCRIPTION ELEV= XXX.XX'

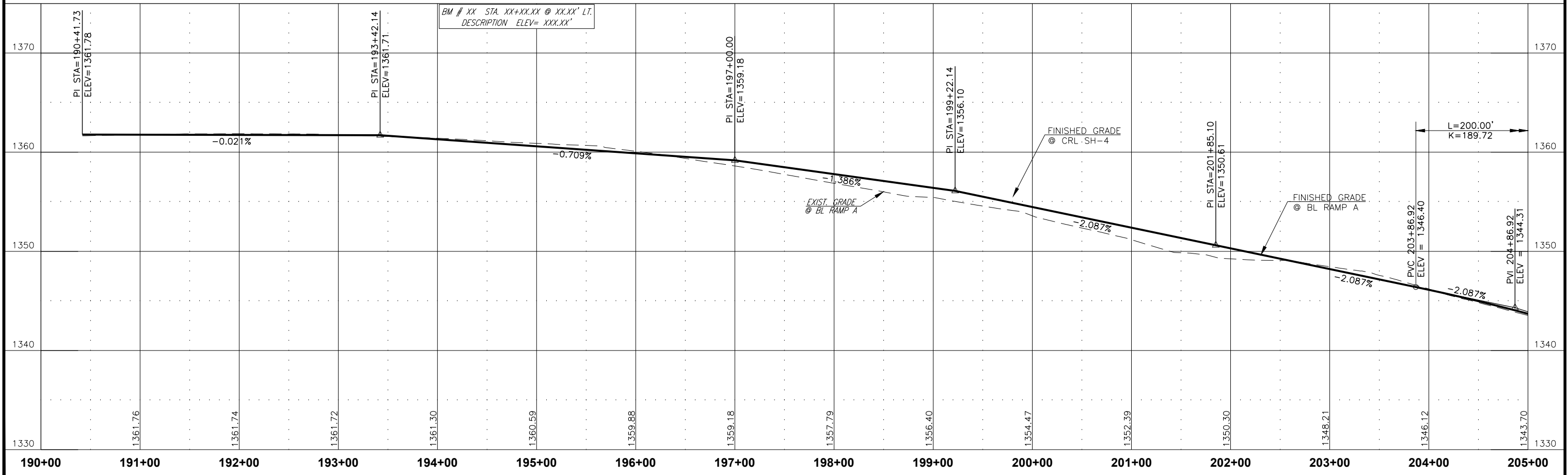
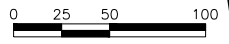
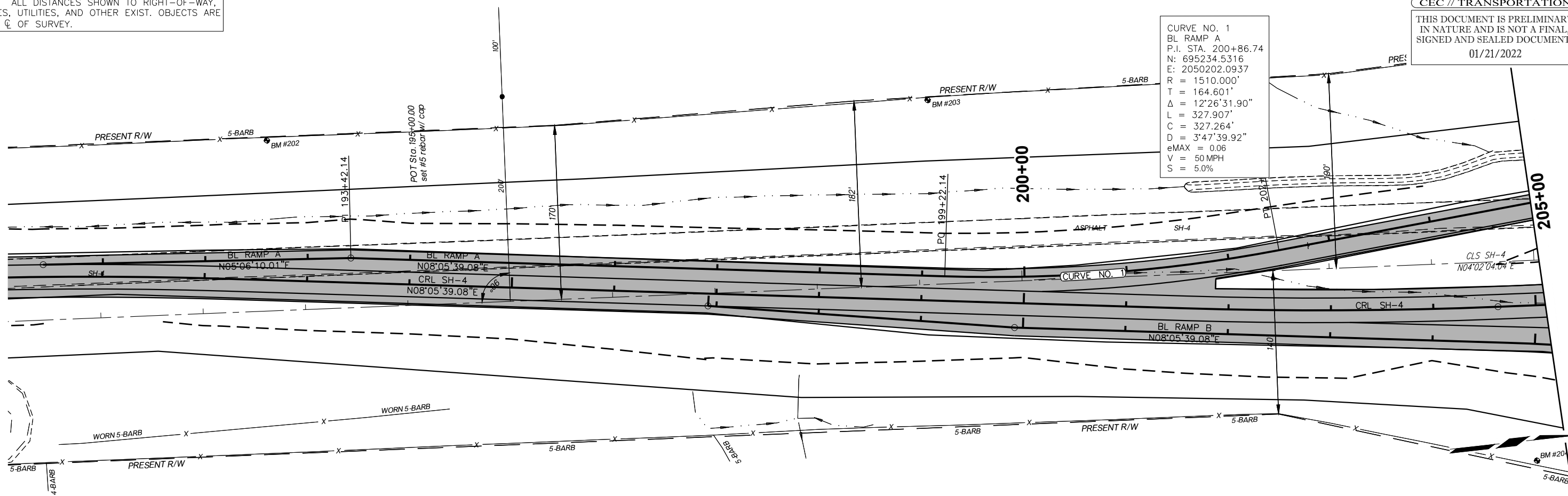
ALT. 3C INTERCHANGE SH-4 OVER FOX LANE OFFSET FROM EXISTING P&P CRL FOX LANE

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM ϕ OF SURVEY.

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CURVE NO. 1
 BL RAMP A
 P.I. STA. 200+86.74
 N: 695234.5316
 E: 2050202.0937
 R = 1510.000'
 T = 164.601'
 Δ = 12°26'31.90"
 L = 327.907'
 C = 327.264'
 D = 3'47"39.92"
 eMAX = 0.06
 V = 50 MPH
 S = 5.0%



ALT. 3C INTERCHANGE SH-4 OVER FOX LANE OFFSET FROM EXISTING BL RAMP A

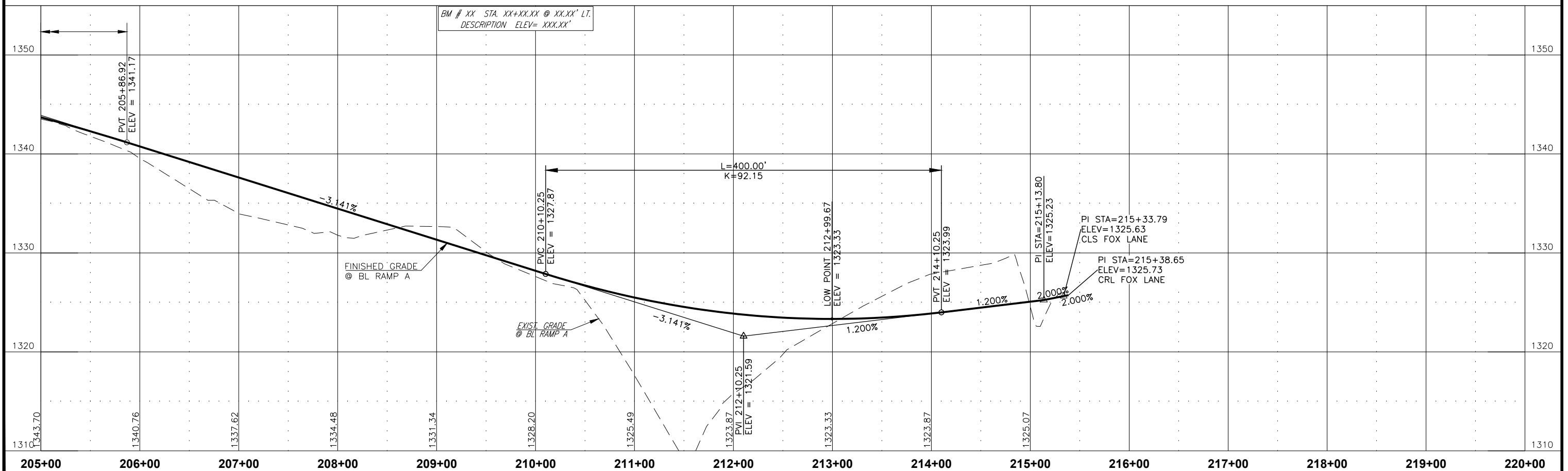
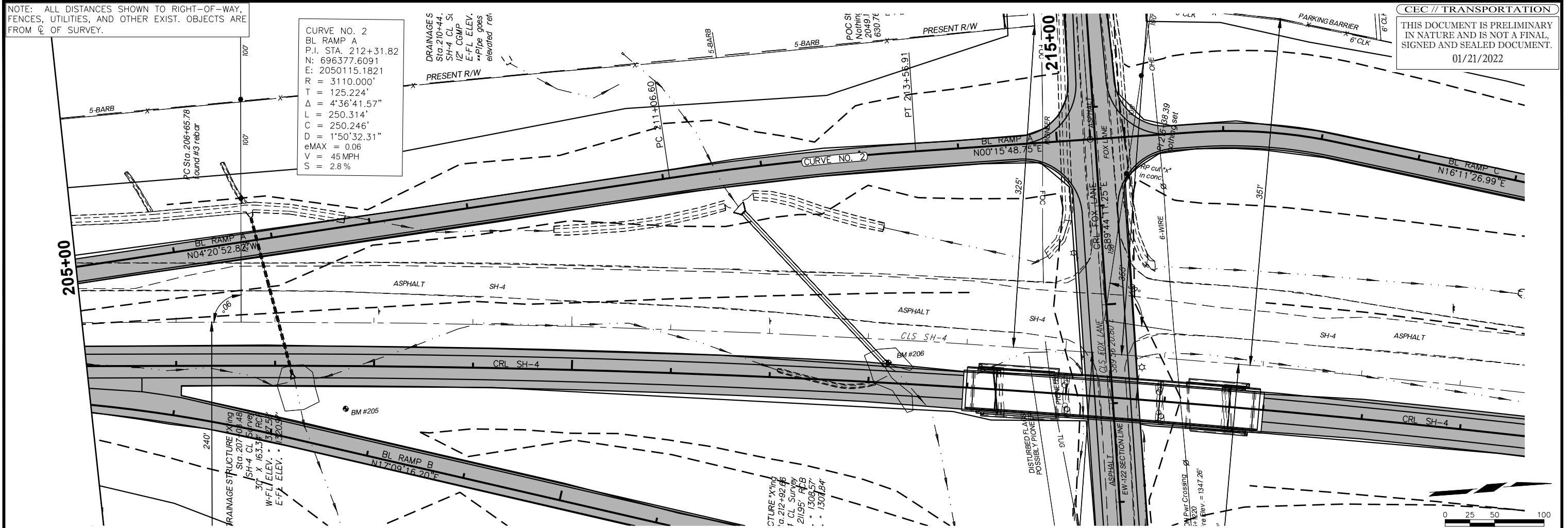
NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM \odot OF SURVEY.

CURVE NO. 2
 BL RAMP A
 P.I. STA. 212+31.82
 N: 696377.6091
 E: 2050115.1821
 R = 3110.000'
 T = 125.224'
 Δ = 4°36'41.57"
 L = 250.314'
 C = 250.246'
 D = 1°50'32.31"
 eMAX = 0.06
 V = 45 MPH
 S = 2.8 %

DRAINAGES
 Sta. 210+44.4
 SH-4 CL SL
 12" CGMP
 E-FL ELEV.
 Pipe goes elevated ref.

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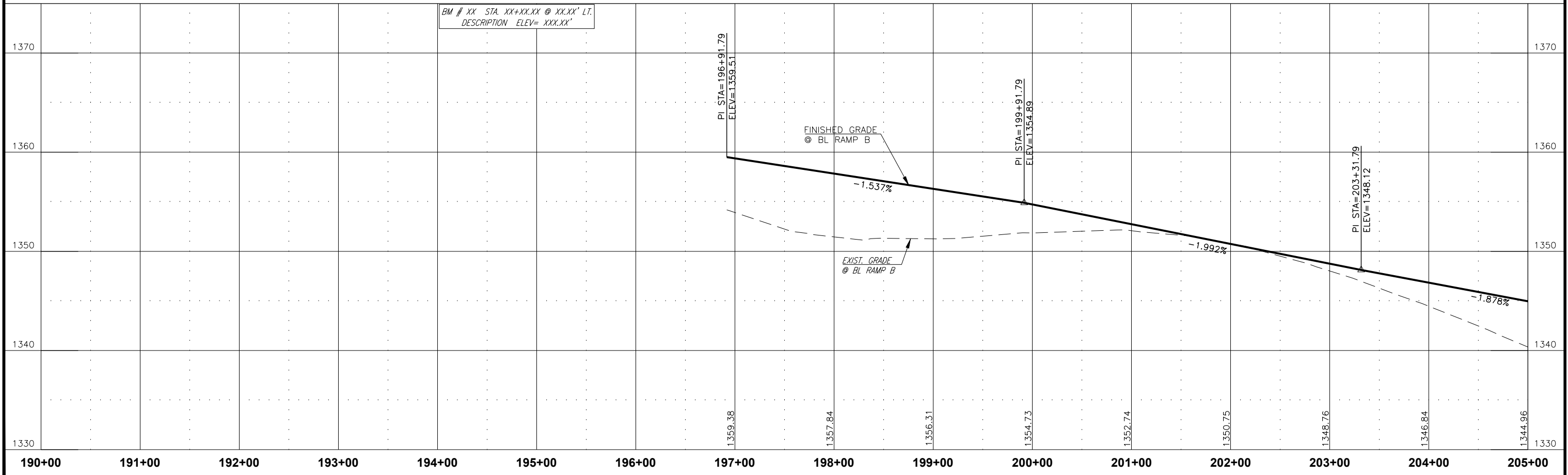
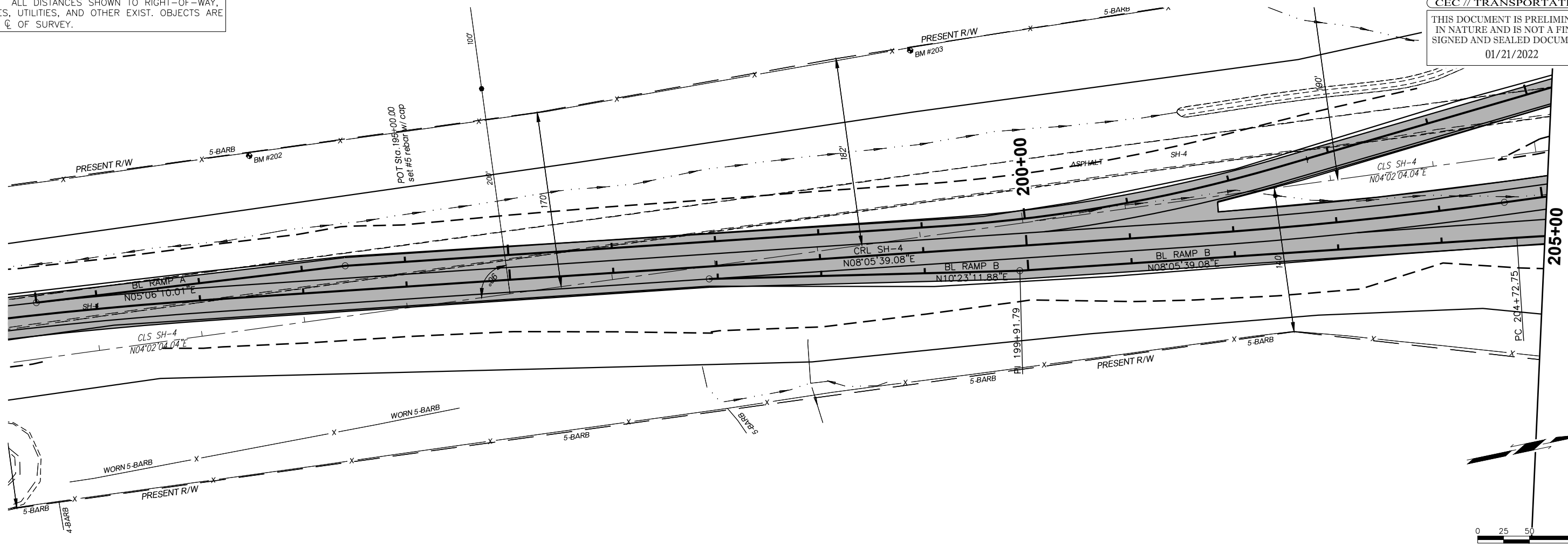
BM # XX STA. XX+XX.XX @ XX.XX' LT.
 DESCRIPTION ELEV= XXX.XX'

ALT. 3C INTERCHANGE SH-4 OVER FOX LANE OFFSET FROM EXISTING BL RAMP A

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.

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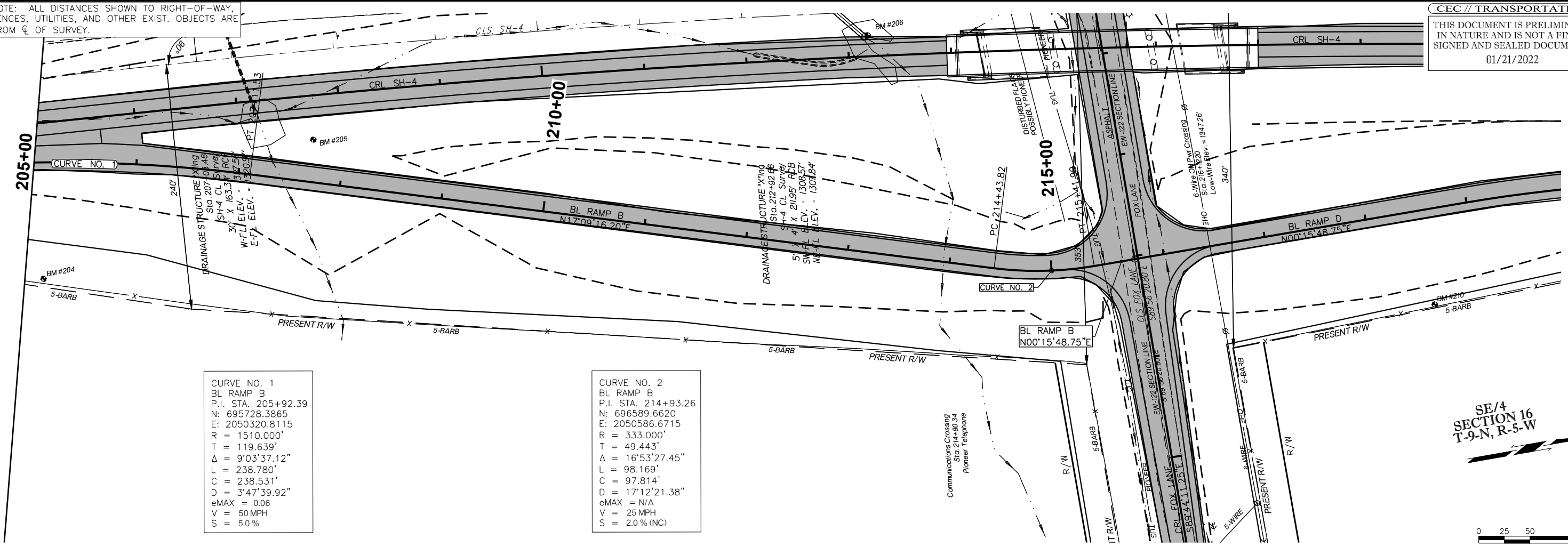
01/21/2022



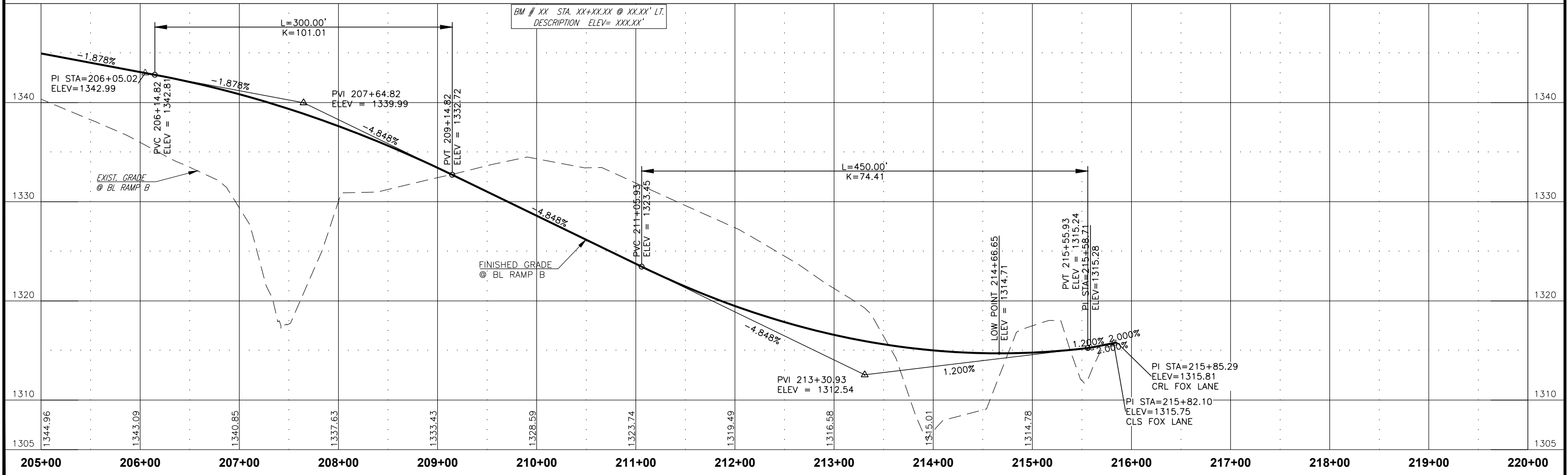
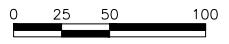
BM # XX STA. XX+XX.XX @ XX.XX' LT.
DESCRIPTION ELEV= XXX.XX'

ALT. 3C INTERCHANGE SH-4 OVER FOX LANE OFFSET FROM EXISTING BL RAMP B

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.



SE/4 SECTION 16 T-9-N, R-5-W



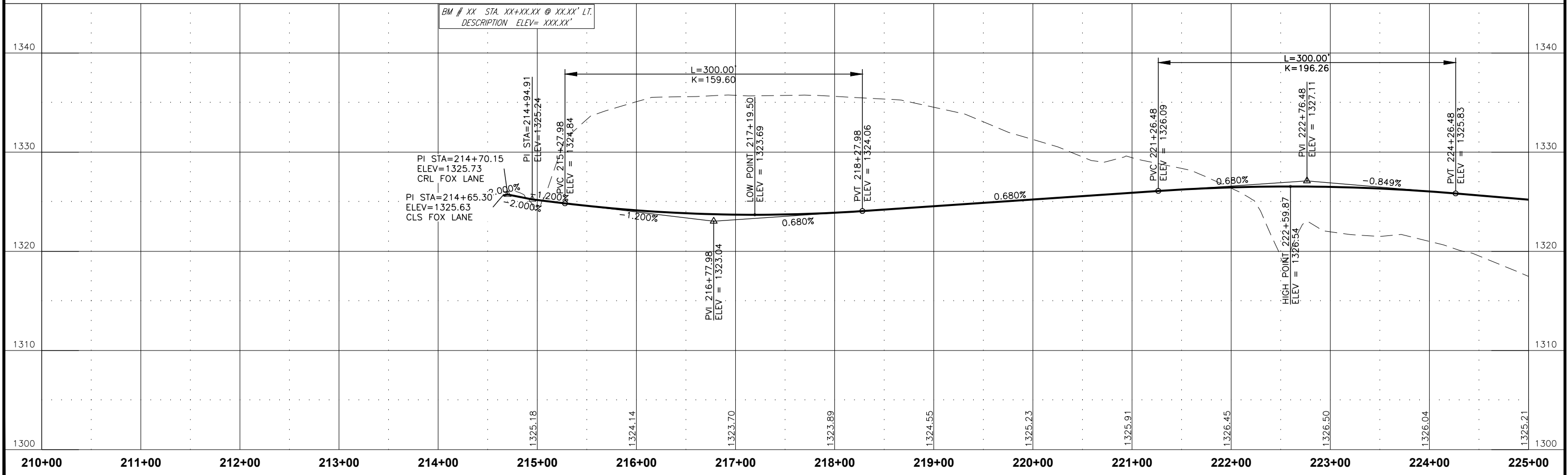
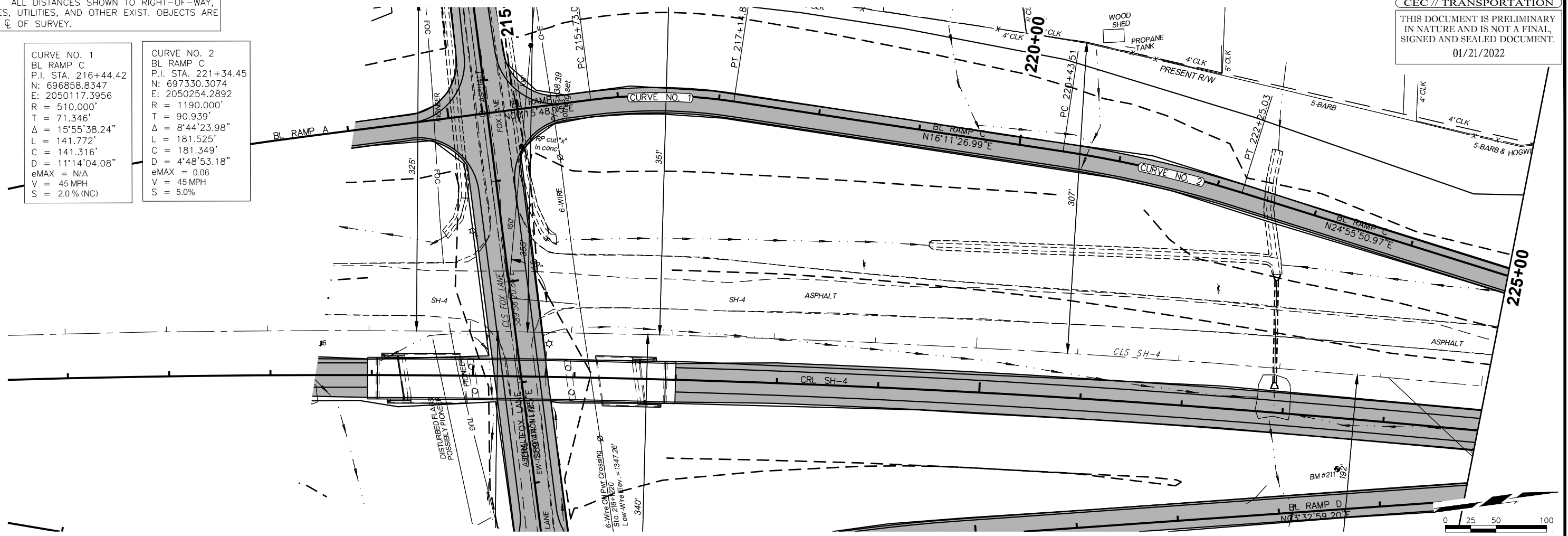
ALT. 3C INTERCHANGE SH-4 OVER FOX LANE OFFSET FROM EXISTING BL RAMP B

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM ϕ OF SURVEY.

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CURVE NO. 1	CURVE NO. 2
BL RAMP C	BL RAMP C
P.I. STA. 216+44.42	P.I. STA. 221+34.45
N: 696858.8347	N: 697330.3074
E: 2050117.3956	E: 2050254.2892
R = 510.000'	R = 1190.000'
T = 71.346'	T = 90.939'
$\Delta = 15^{\circ}55'38.24''$	$\Delta = 8^{\circ}44'23.98''$
L = 141.772'	L = 181.525'
C = 141.316'	C = 181.349'
D = 11'14'04.08"	D = 4'48'53.18"
eMAX = N/A	eMAX = 0.06
V = 45 MPH	V = 45 MPH
S = 2.0% (NC)	S = 5.0%



ALT. 3C INTERCHANGE SH-4 OVER FOX LANE OFFSET FROM EXISTING BL RAMP C

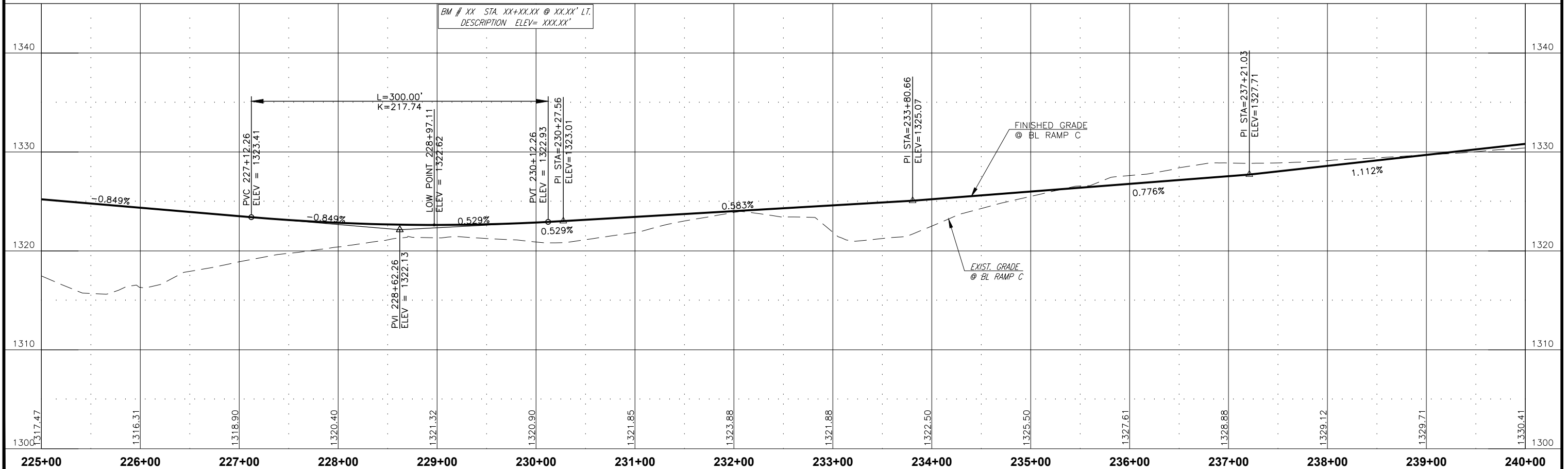
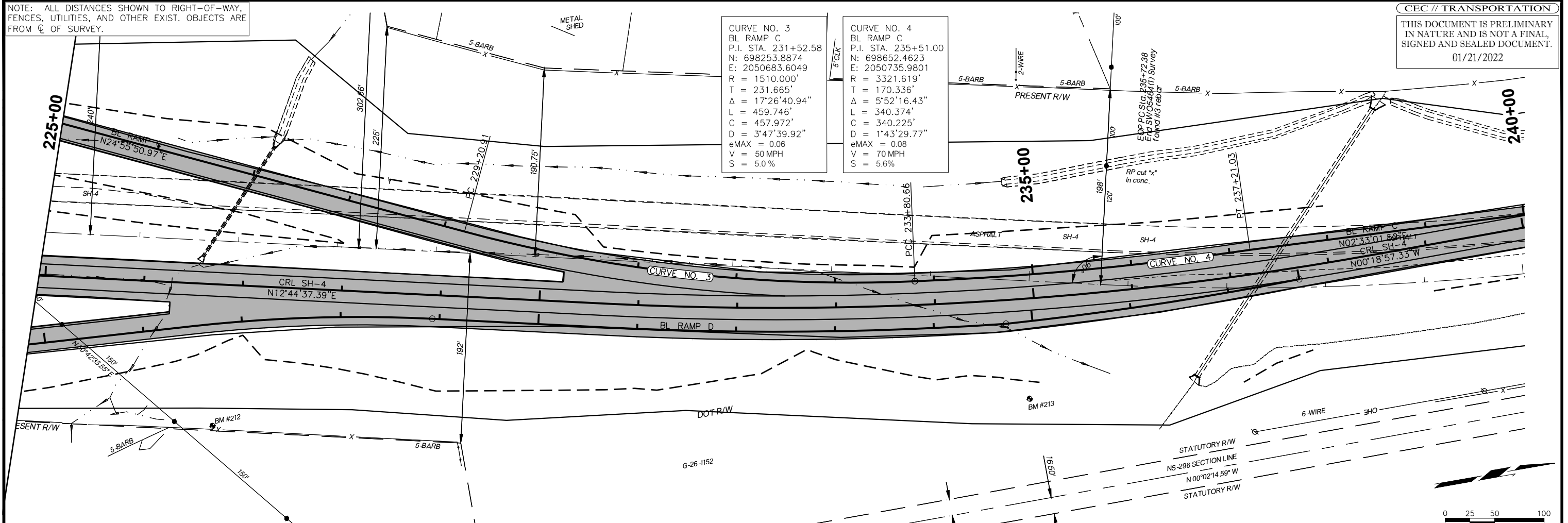
NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM ϕ OF SURVEY.

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CURVE NO. 3
 BL RAMP C
 P.I. STA. 231+52.58
 N: 698253.8874
 E: 2050683.6049
 R = 1510.000'
 T = 231.665'
 $\Delta = 17^{\circ}26'40.94''$
 L = 459.746'
 C = 457.972'
 D = 3'47.39.92"
 eMAX = 0.06
 V = 50 MPH
 S = 5.0%

CURVE NO. 4
 BL RAMP C
 P.I. STA. 235+51.00
 N: 698652.4623
 E: 2050735.9801
 R = 3321.619'
 T = 170.336'
 $\Delta = 5^{\circ}52'16.43''$
 L = 340.374'
 C = 340.225'
 D = 1'43.29.77"
 eMAX = 0.08
 V = 70 MPH
 S = 5.6%

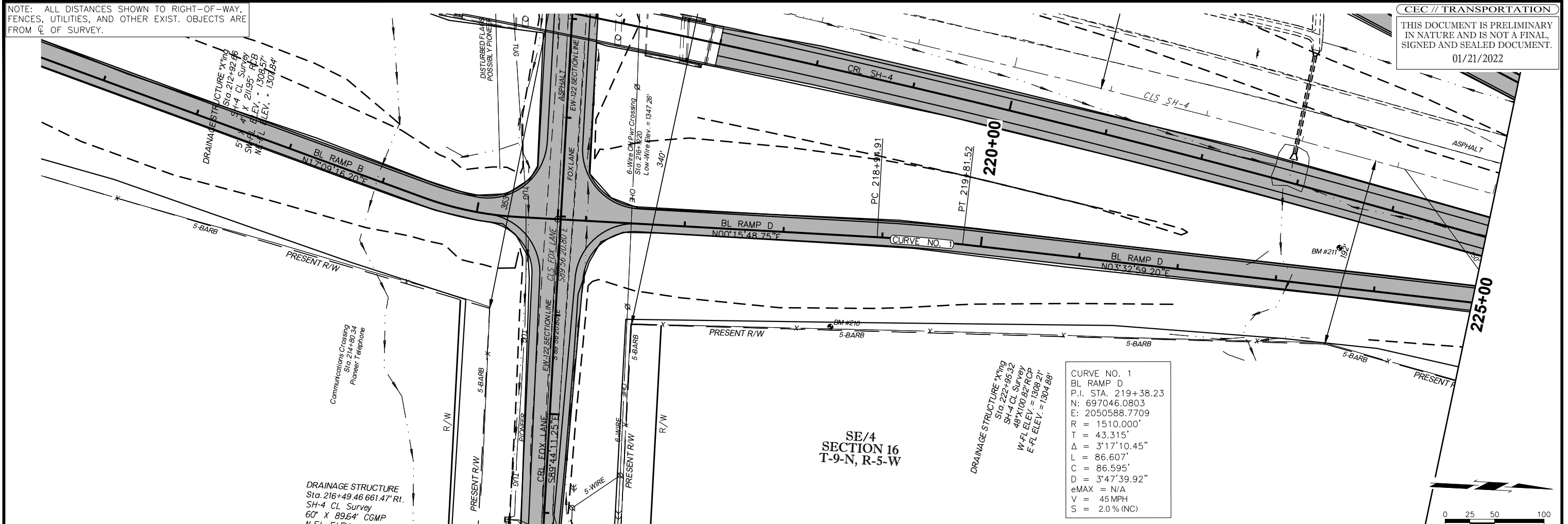


ALT. 3C INTERCHANGE SH-4 OVER FOX LANE OFFSET FROM EXISTING BL RAMP C

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C. OF SURVEY.

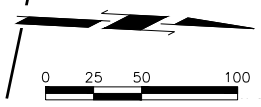
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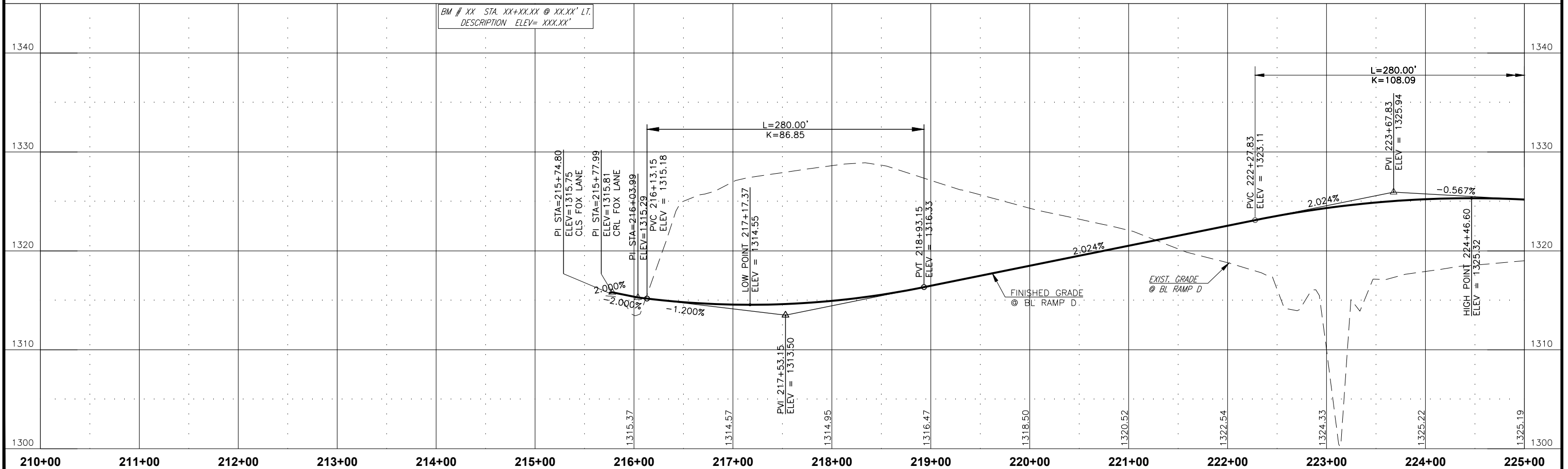


SE/4 SECTION 16 T-9-N, R-5-W

CURVE NO. 1
BL RAMP D
P.I. STA. 219+38.23
N: 697046.0803
E: 2050588.7709
R = 1510.000'
T = 43.315'
Δ = 3°17'10.45"
L = 86.607'
C = 86.595'
D = 3°47'39.92"
eMAX = N/A
V = 45 MPH
S = 2.0% (NC)



BM # XX STA. XX+XX.XX @ XX.XX' LT.
DESCRIPTION ELEV= XXX.XX'

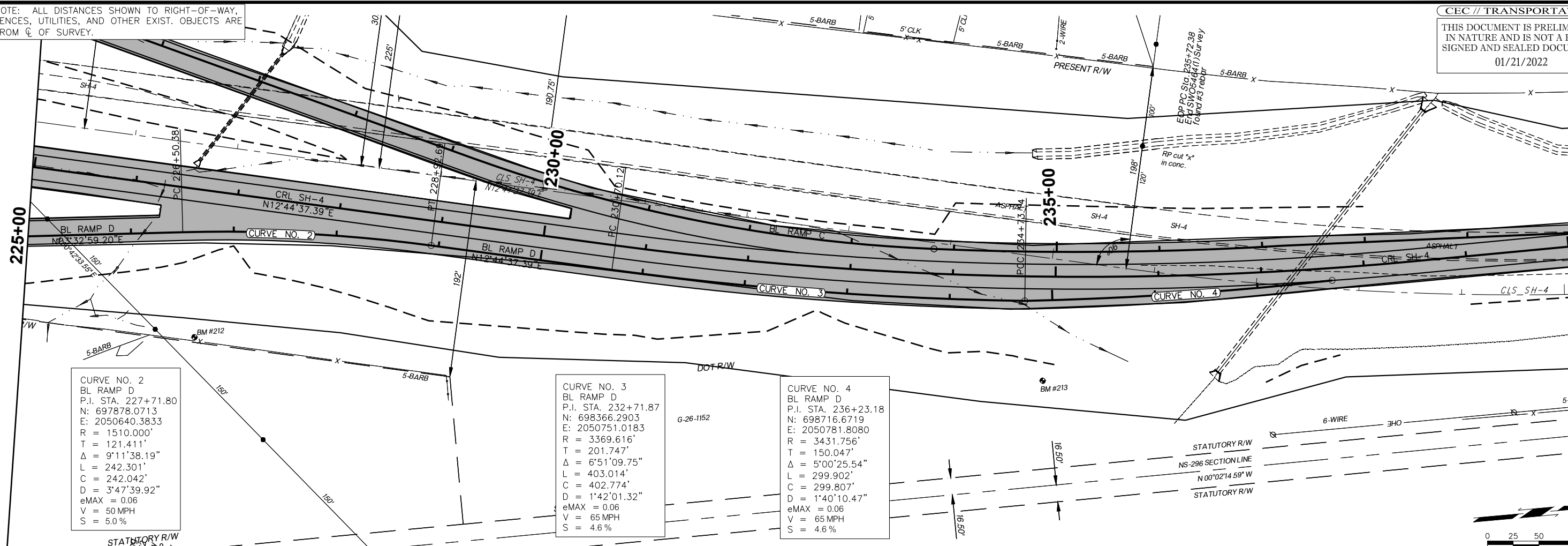


ALT. 3C INTERCHANGE SH-4 OVER FOX LANE OFFSET FROM EXISTING BL RAMP D

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM C OF SURVEY.

THIS DOCUMENT IS PRELIMINARY IN NATURE AND IS NOT A FINAL, SIGNED AND SEALED DOCUMENT.

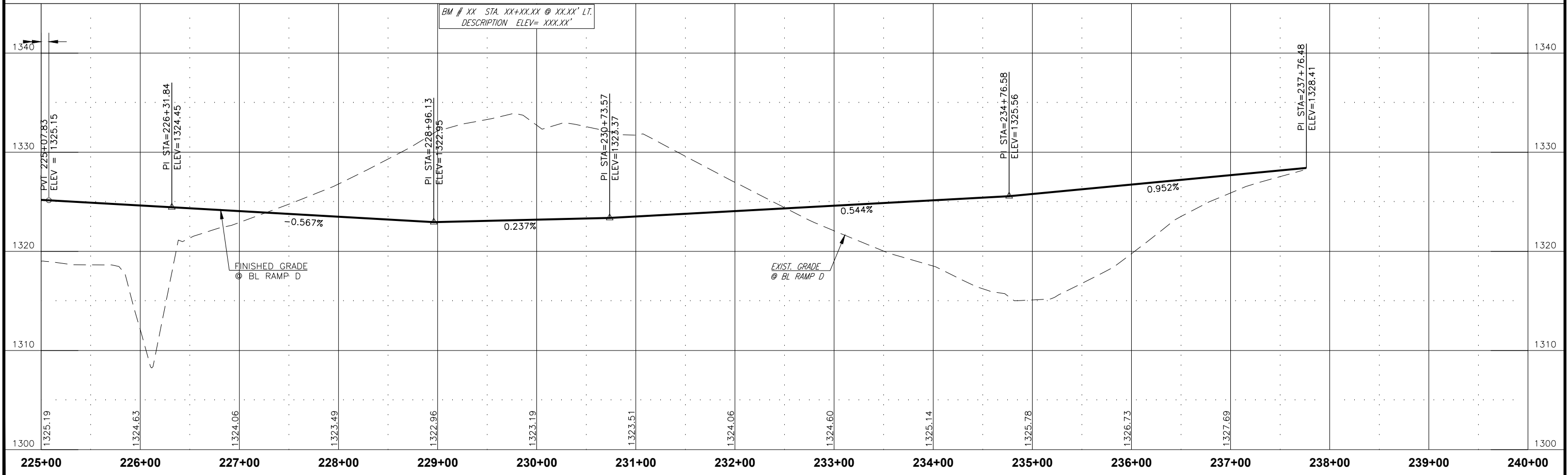
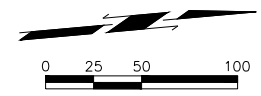
01/21/2022



CURVE NO. 2
 BL RAMP D
 P.I. STA. 227+71.80
 N: 697878.0713
 E: 2050640.3833
 R = 1510.000'
 T = 121.411'
 Δ = 9°11'38.19"
 L = 242.301'
 C = 242.042"
 D = 3'47"39.92"
 eMAX = 0.06
 V = 50 MPH
 S = 5.0%

CURVE NO. 3
 BL RAMP D
 P.I. STA. 232+71.87
 N: 698366.2903
 E: 2050751.0183
 R = 3369.616'
 T = 201.747'
 Δ = 6°51'09.75"
 L = 403.014'
 C = 402.774"
 D = 1'42"01.32"
 eMAX = 0.06
 V = 65 MPH
 S = 4.6%

CURVE NO. 4
 BL RAMP D
 P.I. STA. 236+23.18
 N: 698716.6719
 E: 2050781.8080
 R = 3431.756'
 T = 150.047'
 Δ = 5°00'25.54"
 L = 299.902'
 C = 299.807"
 D = 1'40"10.47"
 eMAX = 0.06
 V = 65 MPH
 S = 4.6%



ALT. 3C INTERCHANGE SH-4 OVER FOX LANE OFFSET FROM EXISTING BL RAMP D