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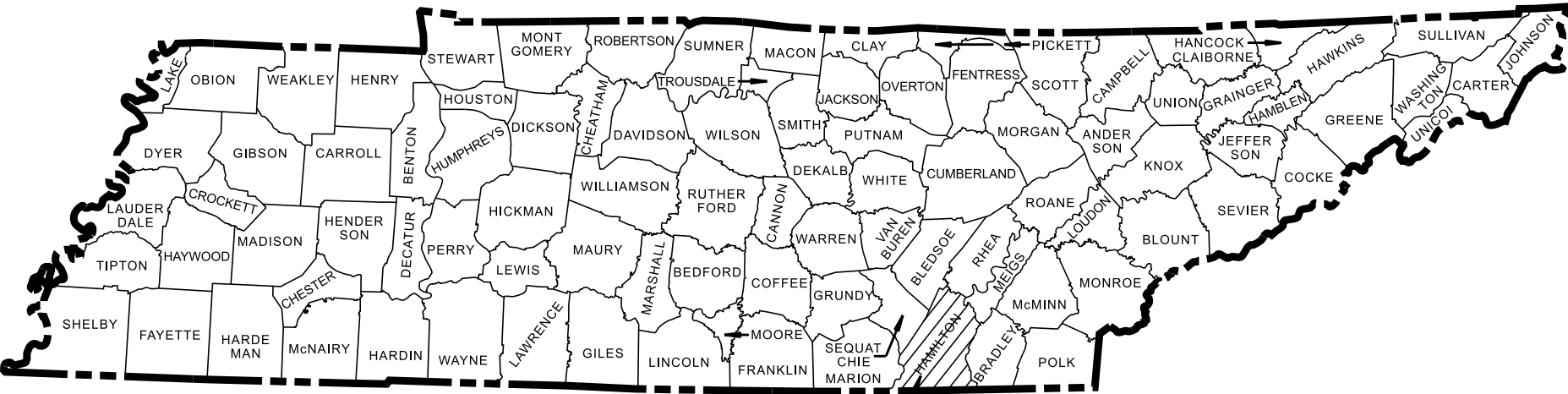
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

HAMILTON COUNTY
WILCOX BOULEVARD BRIDGE IN CHATTANOOGA
FROM RIVERSIDE DRIVE
TO NORTH HOLTZCLAW ROAD
LINE AND GRADE
PAVING, GRADING, STRUCTURES, SIGNING & STRIPING

STATE HIGHWAY NO. N/A F.A.H.S. NO. N/A

DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86	YES	NO X
WORK ZONE SIIGNIFICANCE DETERMINATION		
SIGNIFICANT	YES	NO X

TENN.	YEAR 2024	SHEET NO. 1
FED. AID PROJ. NO.	BR-NH/STP-M/RAISE-3556(9)	
STATE PROJ. NO.	33LCIT-F1-010	



PROJECT LOCATION

BRIDGE ID. # 33035560003
BRIDGE ID. # 33035560004

NO EXCLUSIONS

NO EXCEPTIONS

LINE & GRADE
PLANS

BR-NH/STP-M/RAISE-3556(9)
BEGIN PROJECT NO. 33LCIT-F1-010 PRELIM
STA. 500+00.00 WILCOX BLVD
N 264762.4789 E 2185304.2538

BR-NH/STP-M/RAISE-3556(9)
END PROJECT NO.33LCIT-F1-010 PRELIM
STA. 524+78.44 WILCOX BLVD
N 263732.3982 E 2187287.7580

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2021 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

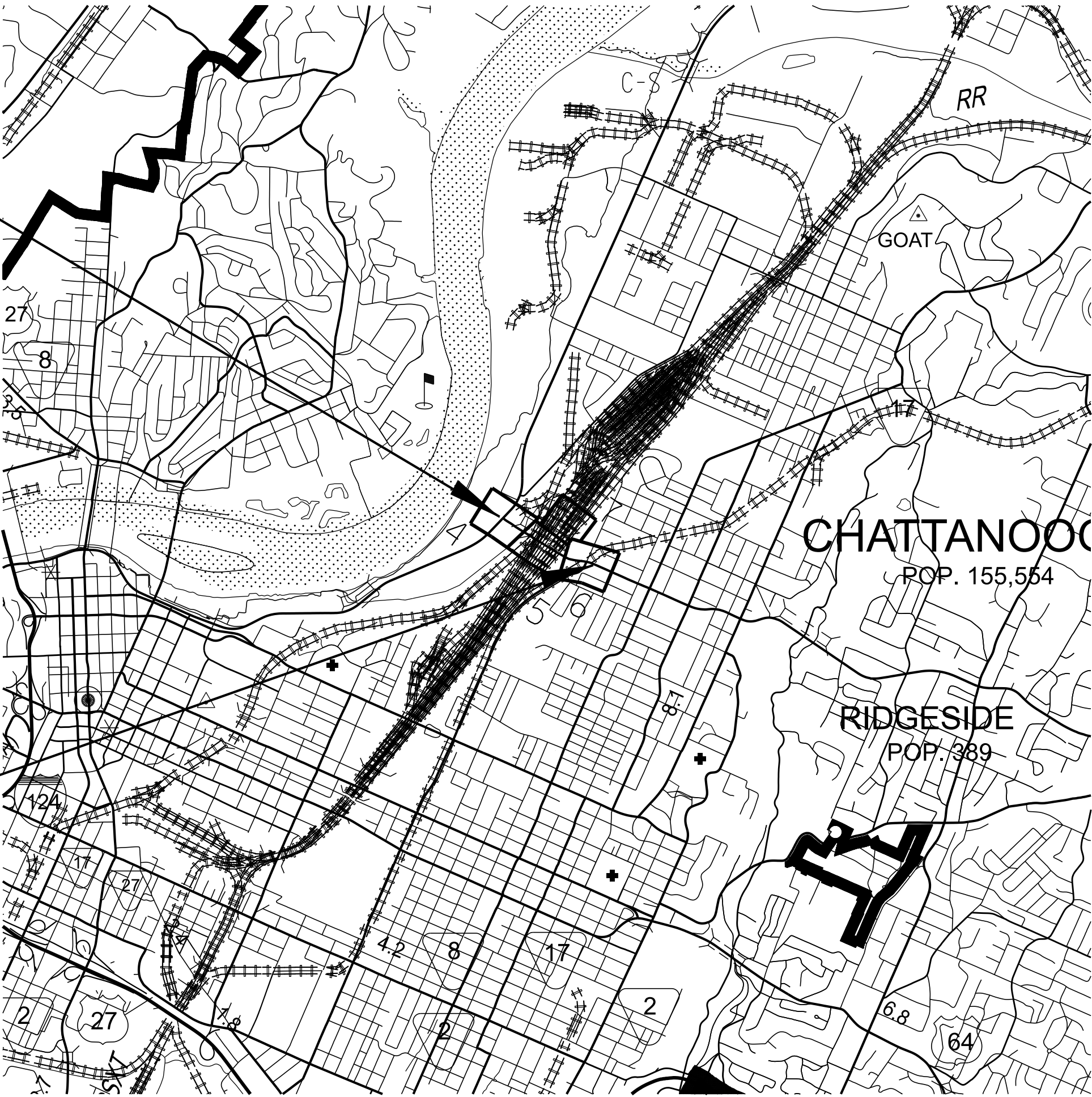
TDOT ROAD SP. SV. 2 : MIKE O'DONNELL, P.E.

DESIGNER : GREG FREEMAN, P.E.

CHECKED BY : BRIAN RALSTIN, P.E.

P.E. NO. 33LCIT-F0-010 (NEPA)

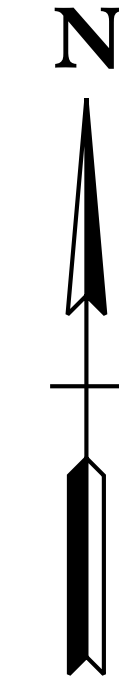
PIN NO. 133281.00



SCALE: 1"= 2640'

R.O.W. LENGTH	0.000 MILES MILES
ROADWAY LENGTH	0.308 MILES MILES
BRIDGE LENGTH	0.161 MILES MILES
BOX BRIDGE LENGTH	0.000 MILES MILES
BOX BRIDGE LENGTH	0.000 MILES MILES ▲
PROJECT LENGTH	0.469 MILES MILES

Not included in the project length (Non Riding Surface).



SURVEY 12-15-2021	TRAFFIC DATA
UPDATED 1-26-2022	ADT (2026) 18,180
UPDATED 4-22-2022	ADT (2046) 19,270
UPDATED 4-29-2022	DHV (2046) 2,120
	D 65-35
	T (ADT) 3 %
	T (DHV) 2 %
	V 40 MPH

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12A.

APPROVED:
WILL REID, CHIEF ENGINEER

DATE:

APPROVED:
HOWARD H. ELEY, COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:
DIVISION ADMINISTRATOR DATE

ESTIMATED PROJECT QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
201-01	CLEARING AND GRUBBING	LS	1
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	6450
203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	8130
209-99.91	EROSION CONTROL	LS	1
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	4781
307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	1950
307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	1198
(1) 402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	12
(2) 402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	43
403-02.01	TRACKLESS TACK COAT	TON	6
411-02.10	ACS MIX(PG70-22) GRADING D	TON	675
604-02.01	CLASS A CONCRETE (BOX BRIDGES)	C.Y.	90
604-02.02	STEEL BAR REINFORCEMENT (BOX BRIDGES)	LB.	15000
(5) 604-07.01	RETAINING WALL (DESCRIPTION)	S.F.	17425
607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	600
607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	900
611-01.02	MANHOLES, >4' - 8' DEPTH	EACH	15
611-12.02	CATCH BASINS, TYPE 12, > 4'-8' DEPTH	EACH	30
701-01.01	CONCRETE SIDEWALK (4")	S.F.	16063
701-02.03	CONCRETE CURB RAMP	S.F.	1263
702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	218
705-06.01	W BEAM GR (TYPE 2) MASH TL-3	L.F.	50
705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	4
705-06.25	THRIE BEAM BRDIGE TRANSITION MASH TL-3	EACH	4
707-07.06	CHAIN-LINK FENCE (RETAINING WALLS)	SF	7200
707-16.01	BIKE/PEDESTRIAN BOX TUBE SAFETY RAIL	LF	705
712-01	TRAFFIC CONTROL	LS	1
714-01	STRUCTURAL LIGHTING	LS	1
716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	0.5
717-01	MOBILIZATION	LS	1
730-01	TRAFFIC SIGNALS	LS	1
(4) 801-01.38	NATVE SEED MX FINAL STABLIZATN OF SLOPES	UNIT	3
(3) 801-03	WATER (SEEDING & SODDING)	M.G.	6
803-01	SODDING (NEW SOD)	S.Y.	3000

ROADWAY QUANTITY FOOTNOTES	
(1)	ITEM TO BE USED AS DIRECTED BY THE ENGINEER AT A RATE OF 0.30 - 0.35 GAL/SQ. YD.
(2)	ITEM TO BE USED AS DIRECTED BY THE ENGINEER
(3)	INCLUDES 3 THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL
(4)	PERMANENT STABILIZATION WITH NATIVE OR NATURALIZED PERENNIAL VEGETATION IS REQUIRED IN ALL AREAS AUTHORIZED FOR TEMPORARY AND PERMANENT IMPACTS TO STREAMS AND RIPARIAN AREAS, INCLUDING ADJACENT BUFFER ZONES WITHIN 60 FEET OF THE EDGE OF WATER. THE APPROPRIATE SEED MIXTURE FOR THE REGION AND SITE CONDITIONS SHALL BE SELECTED FROM TABLE 7.9-1 (PREFERED SEED MIXES USING NATIVE OR NATURALIZED PLANTS AND PLANTING DATES) FOUND IN CHAPTER 7.9 (PERMANENT VEGETATION) OF THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK 4TH EDITION.
(5)	PAY ITEM INCLUDES CONCRETE PARAPET ON TOP OF PROPOSED RETAINING WALL.

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	33LCIT-F0-010	

INFO ONLY

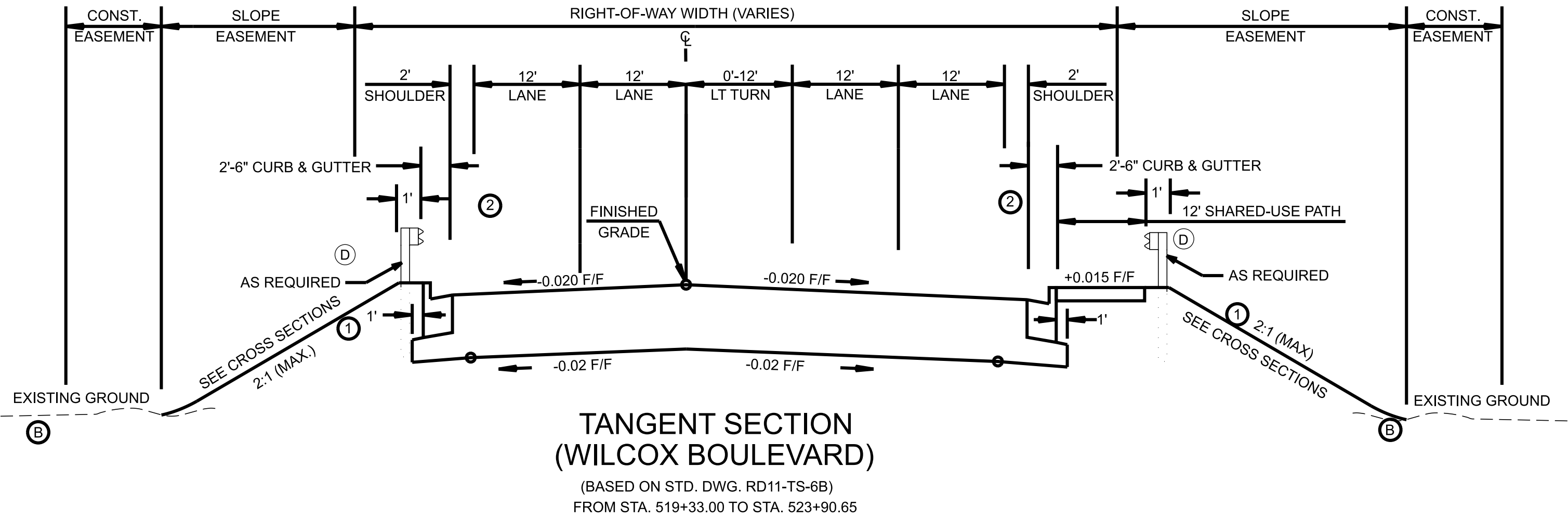
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DEPARTMENT OF TRANSPORTATION

ESTIMATED
ROADWAY
QUANTITIES

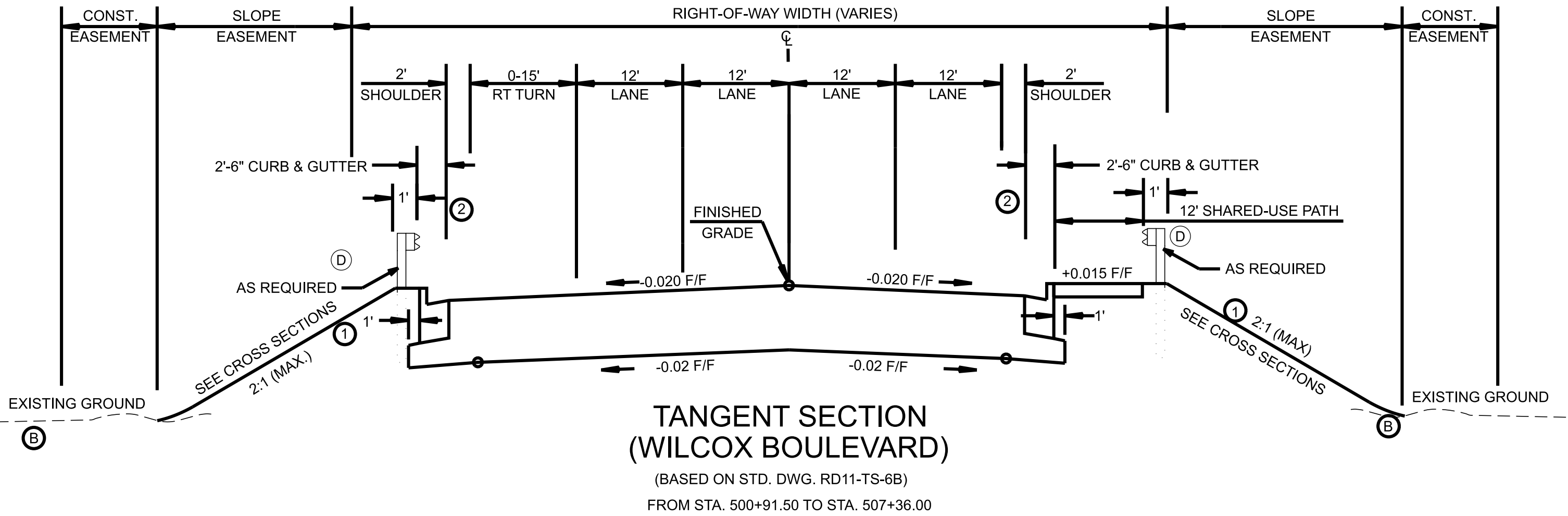
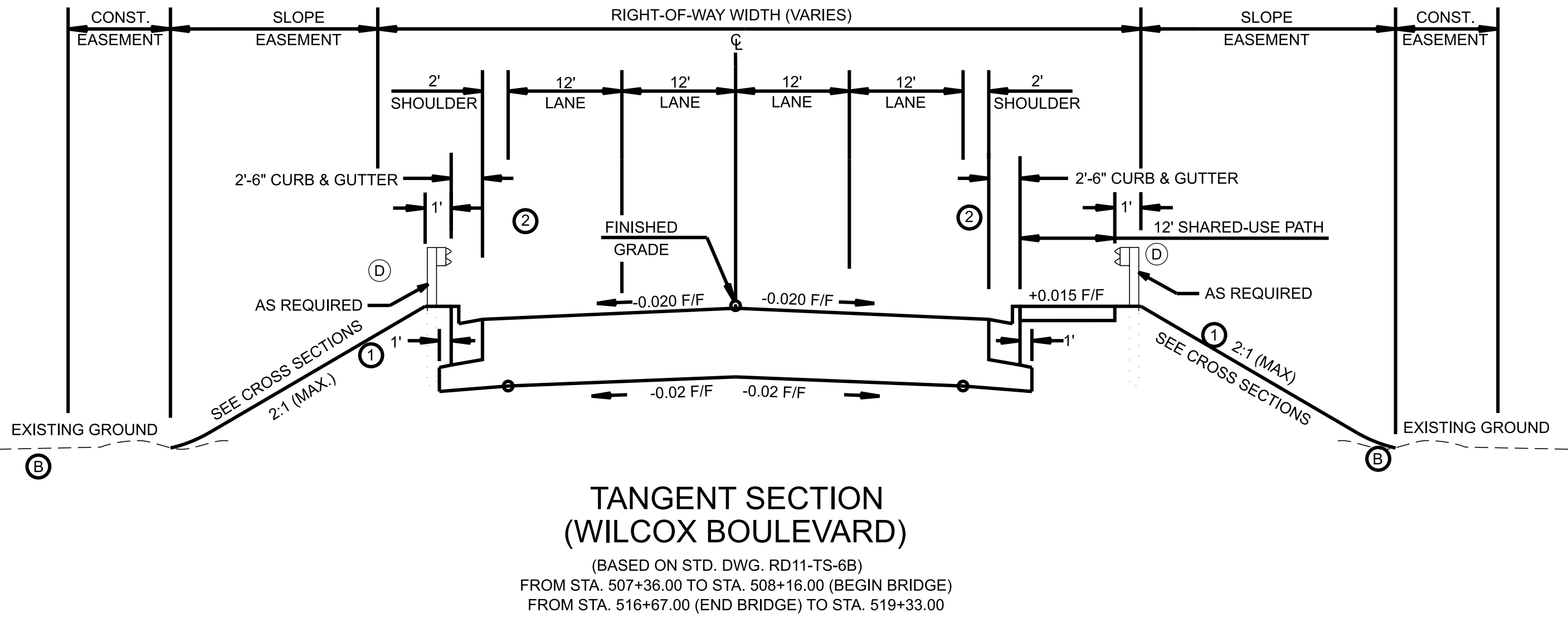
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	2B

PAVEMENT TRANSITIONS TABLE													
EDGE OF PAVEMENT							EDGE OF SHOULDER						
BEGIN STATION	OFFSET	SIDE	WIDTH	END STATION	OFFSET	WIDTH	BEGIN STATION	OFFSET	SIDE	WIDTH	END STATION	OFFSET	WIDTH
506+36.00	39'	LT	39'	507+36.00	24'	24'	506+36.00	41'	LT	2'	507+36.00	26'	2'
519+33.00	24'	RT	24'	521+47.00	36'	36'	519+33.00	26'	RT	2'	521+47.00	38'	2'



- ① 3:1 SLOPES OR FLATTER ARE DESIRABLE AND ARE THE MAXIMUM IN REGION IV. 2:1 SLOPES ARE APPLICABLE IN AREAS WHERE RIGHT-OF-WAY RESTRICTIONS, ENVIRONMENTAL CONSIDERATIONS, OR COST WARRANTS A STEEPER THAN 3:1 SLOPE.
- ② SHOULDER WIDTH WILL BE SPECIFIED IN THE TRANSPORTATION PLANNING REPORT.

- Ⓐ THE SLOPE OF THE SHOULDER AND THE ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7%.
- Ⓑ SEE STANDARD DRAWINGS RD11-S-11 AND RD11-S-11B FOR FILL AND CUT SLOPE TABLES, ROUNDING ON TOP OF CUT SLOPES AND TOE OF FILL SLOPES, SPECIAL ROCK TREATMENT AND SUB GRADE ROUNDING IF APPLICABLE.
- Ⓒ SEE STANDARD DRAWING RD11-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPES.
- Ⓓ SEE STANDARD DRAWING S-PL-6 FOR TYPICAL GUARDRAIL PLACEMENT.

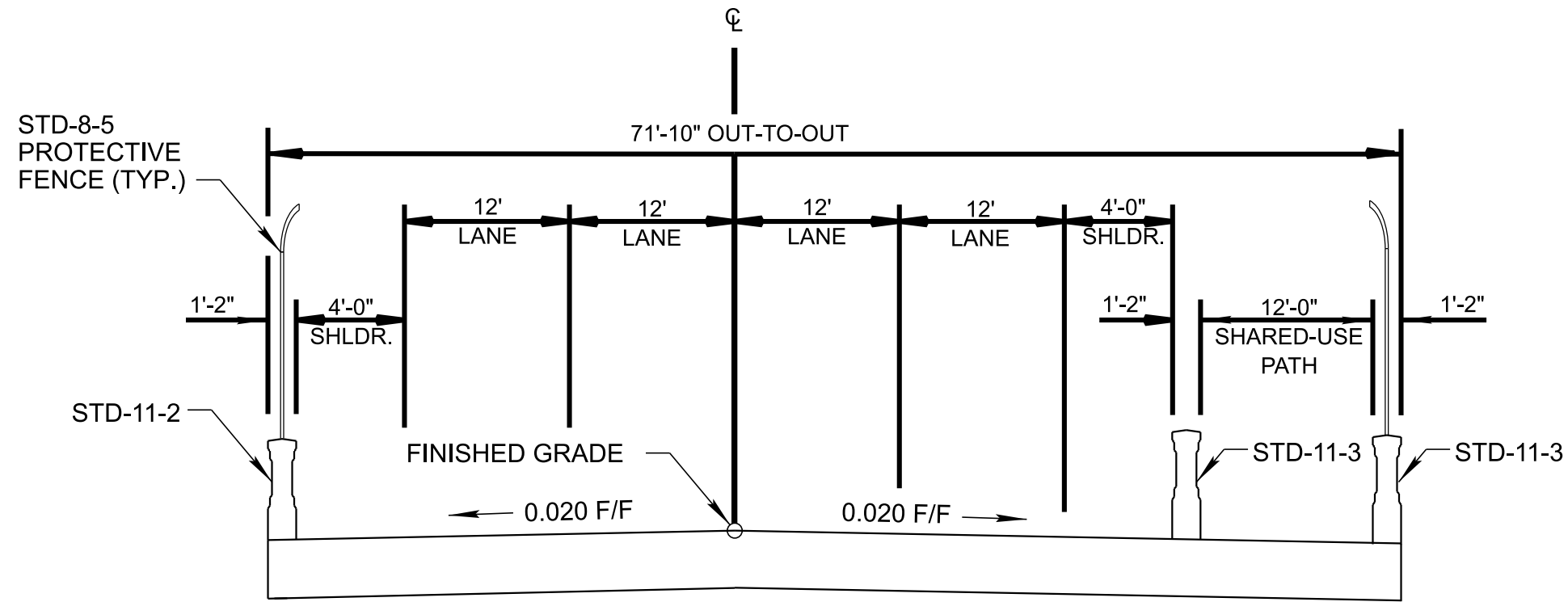


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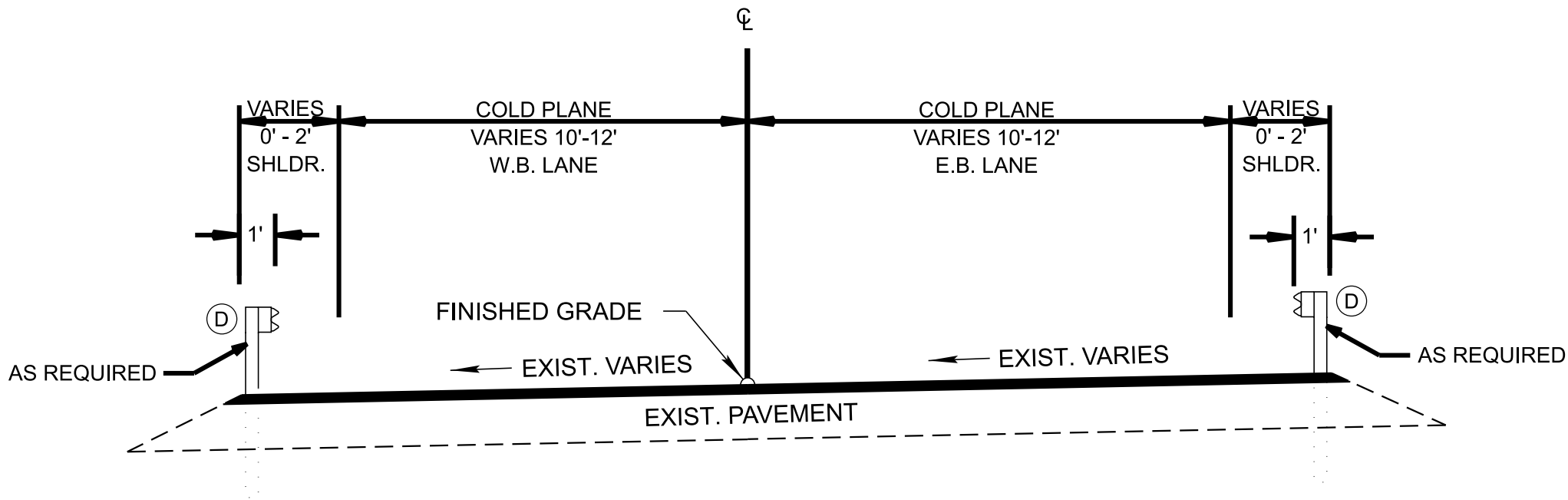
TYPICAL
SECTIONS

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	2B1



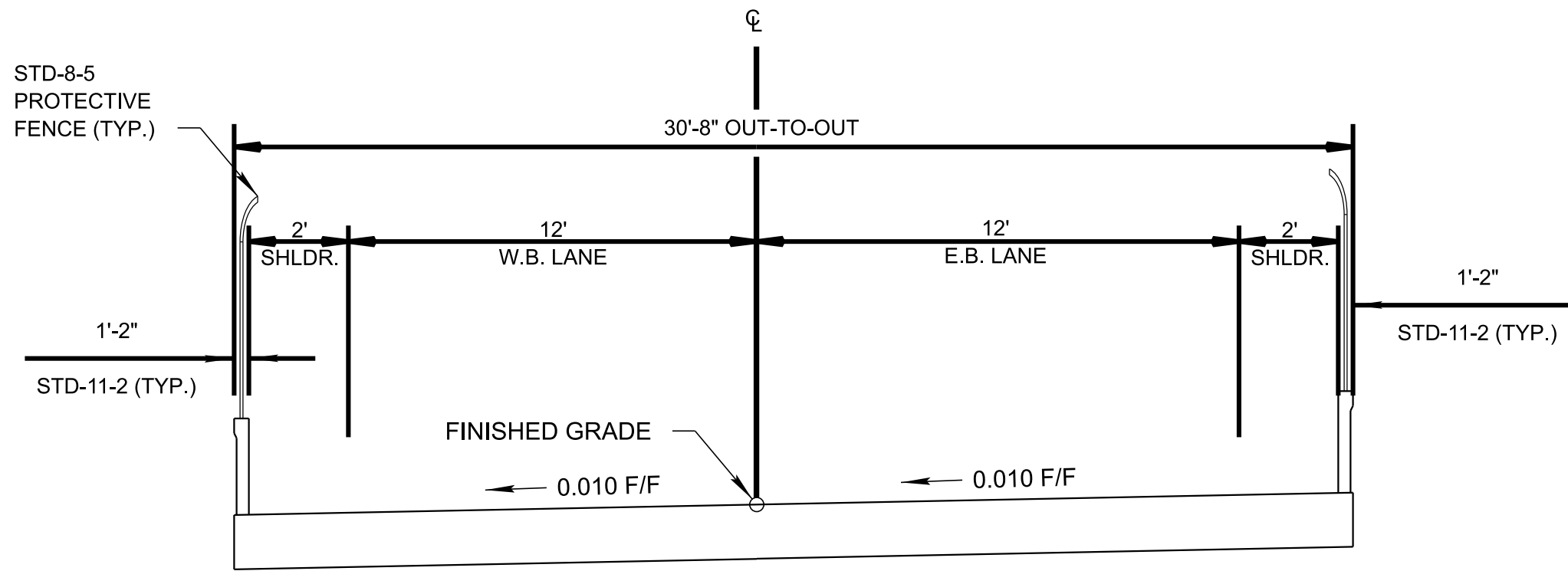
TANGENT SECTION BRIDGE
(WILCOX BOULEVARD)

FROM STA. 508+16.00 TO STA. 516+67.00



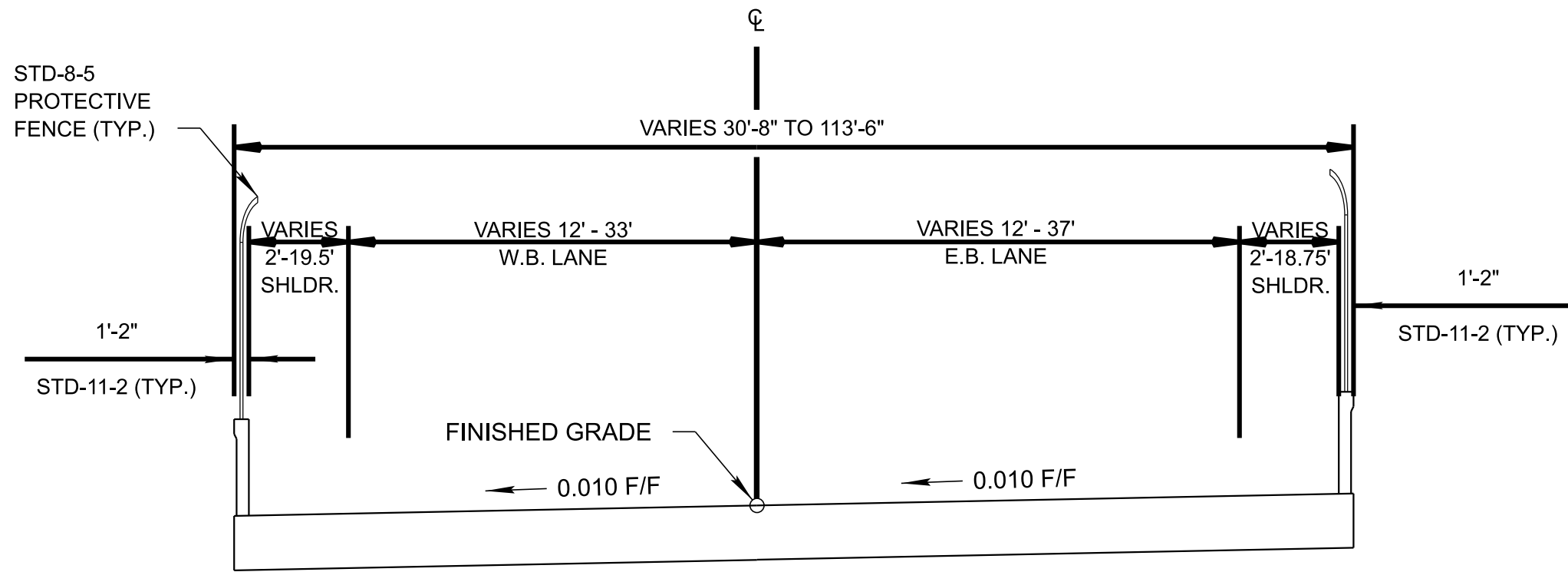
TANGENT SECTION
(ACCESS ROAD)

FROM STA. 10+60.00 TO STA. 11+20.36



SUPERELEVATED SECTION BRIDGE
(ACCESS ROAD)

FROM STA. 11+20.36 TO STA. 15+40.00



SUPERELEVATED SECTION BRIDGE
(ACCESS ROAD)

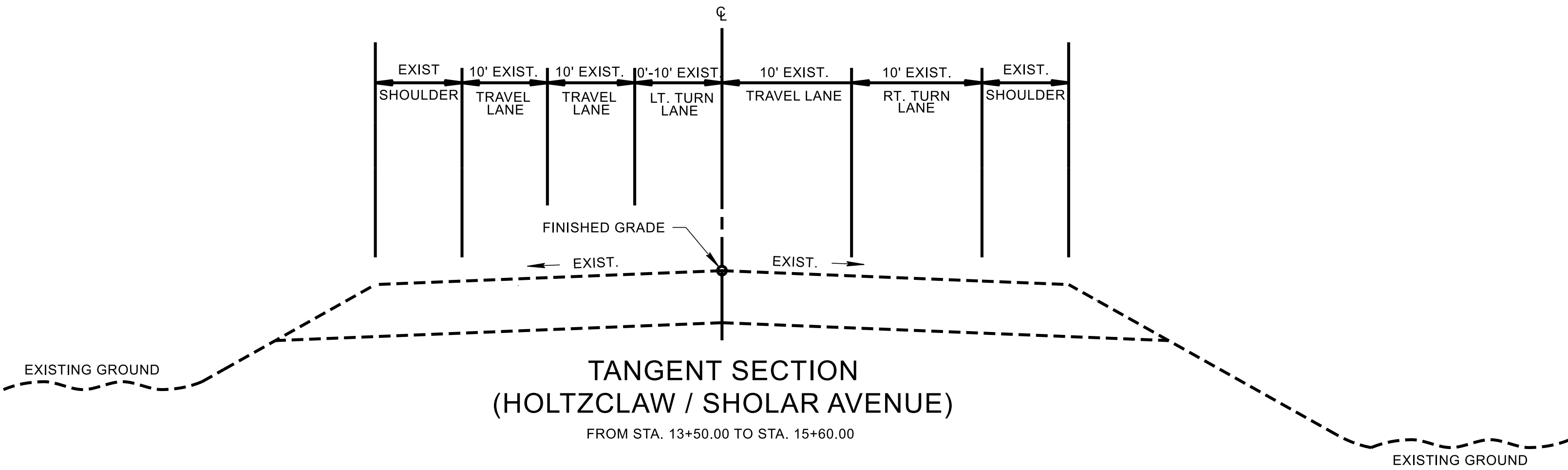
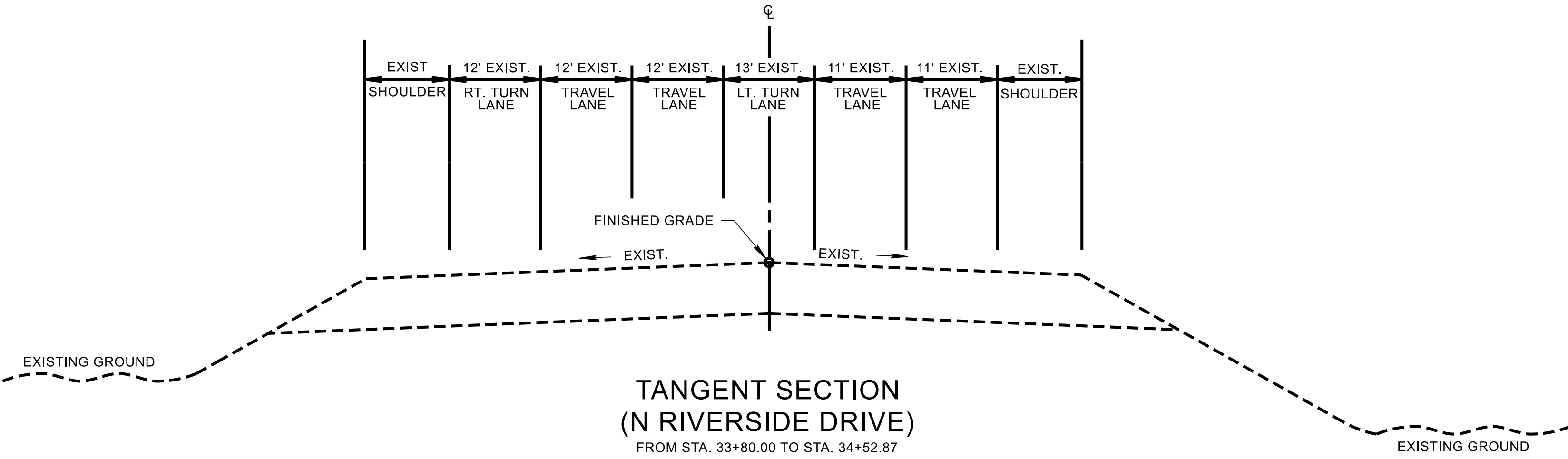
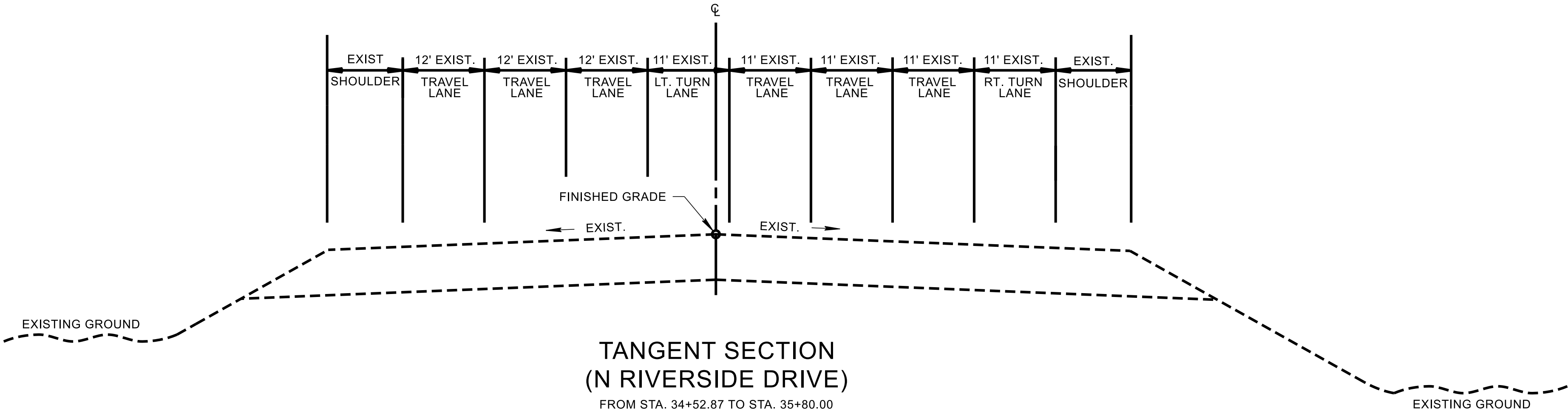
FROM STA. 15+40.00 TO STA. 16+20.36

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TYPICAL
SECTIONS

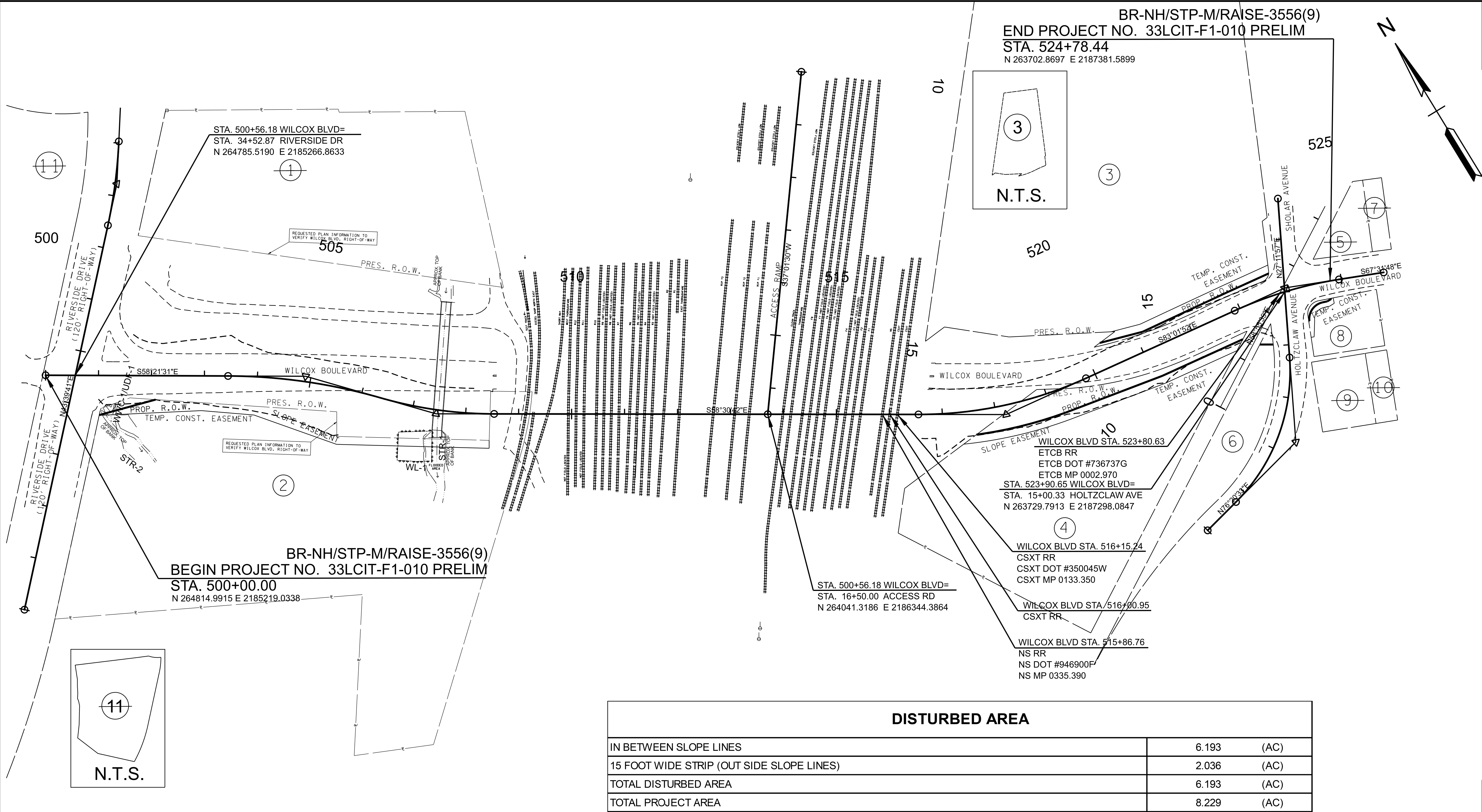
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	2B2



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TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	3A

R.O.W. ACQUISITION TABLE																
TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA (ACRES)			AREA TO BE ACQUIRED (ACRES)			AREA REMAINING (ACRES)		EASEMENT (SQUARE FEET)		
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE		LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	P.U.D.E.	SLOPE	CONST
				BOOK	PAGE											
1	GEORGIA INDUSTRIAL REALTY CO & NORFOLK SOUTHERN CORP TAX DEPT	136 "O" A	012	1091	0606	4.095		4.095				4.095				
2	GEORGIA INDUSTRIAL REALTY CO & NORFOLK SOUTHERN CORP TAX DEPT	136 "O" A	012	1091	0606		7.780	7.780							4060 S.F.	0.260
3	CHATTANOOGA AREA REGIONAL TRANSPORTATION AUTHORITY	136K E	001.01	2348	0501	11.996		11.996	2341 S.F.		2341 S.F.	11.942				0.114
4	KVCB ASSOCIATES LLC	136 K E	003.06	9937	0339		3.974	3.974		0.296	0.296		3.678		3378 S.F.	0.109
5	GREGORY & SARAH	136 K F	047	12968	0960	0.207		0.207				0.207				
6	HICKORY LAND COMPANY LLC	136 K E	003	9076	0987		0.685	0.685		502 S.F.	502 S.F.		0.673			
7	KPE PEOPERTIES LLC	136 K F	046	11280	0948	0.113		0.113				0.113				
8	MONTGOMERY TOMMYE	136 K E	004	12813	0104		0.322	0.322		315 S.F.	315 S.F.		0.315			882 S.F.
9	JOHN JACINTHA	136 K E	029	13198	0539		0.315	0.315					0.315			
10	CARTER, DERWIN A	136 K E	027	8503	0327		0.126	0.126					0.126			
11	JDK REAL ESTATE LLC	136 J A	001	13287	0214	10.530	18.970	29.500								
ACQUISITION TOTALS (ACRES)										0.396					0.164	0.503

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP
AND ROW
ACQUISITION TABLE

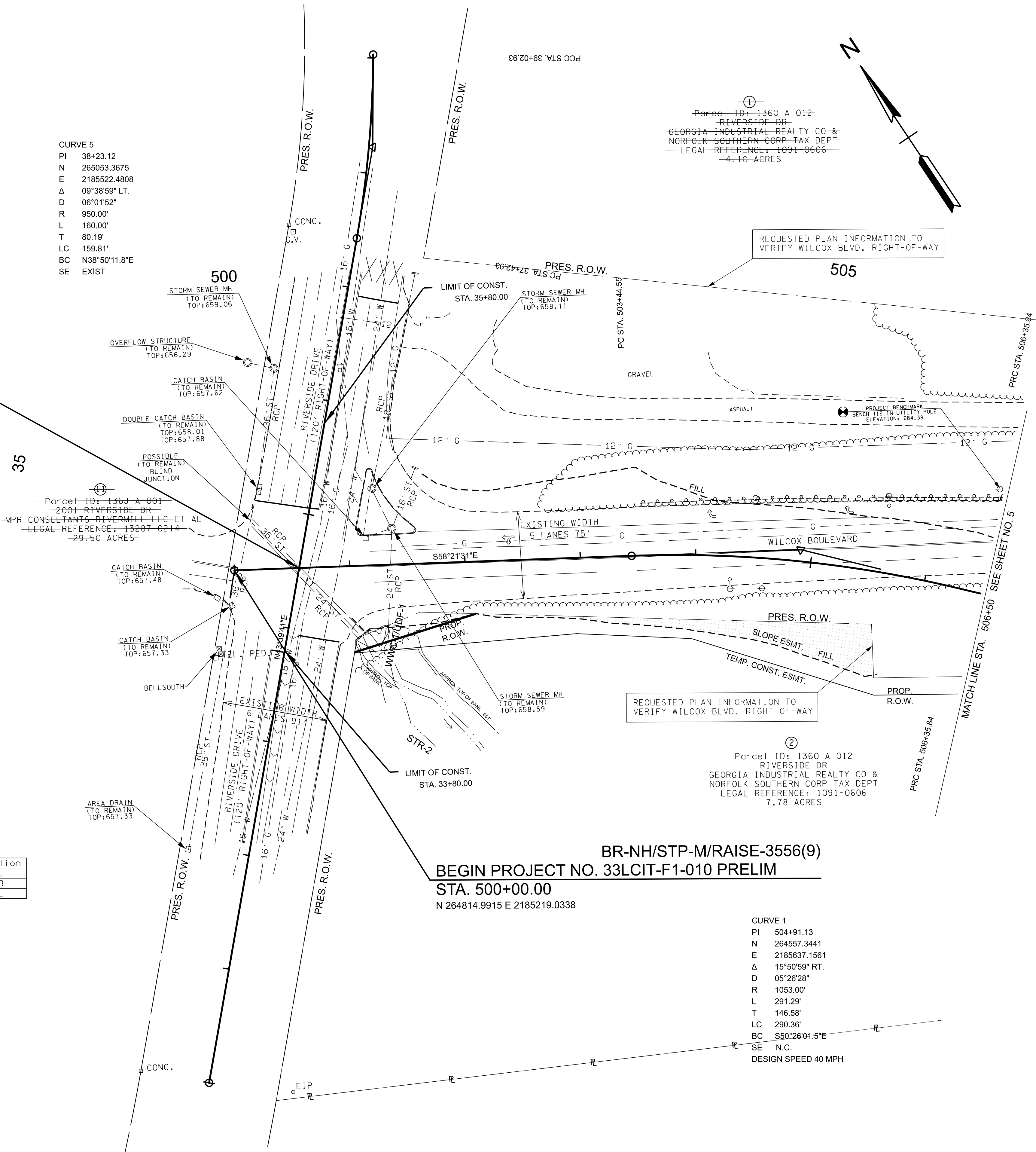
STA. 500+00.00 TO STA. 524+78.44
SCALE: 1" = 100'

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	4

Point	North	East	Elevation	Description
1	263663.2126	2187302.6335	664.74	MAG NAIL
2	263855.6911	2186859.8041	685.84	5/8" CRB
4	264354.8752	2185915.7218	691.90	MAG NAIL

NOTE:
THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF CITICO CREEK (STR-1), (STR-2), OR (WTL-1) AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS

30



CURVE 1
PI 504+91.13
N 264557.3441
E 2185637.1561
Δ 15°50'59" RT.
D 05°26'28"
R 1053.00'
L 291.29'
T 146.58'
LC 290.36'
BC S50°26'01.5"E
SE N.C.
DESIGN SPEED 40 MPH

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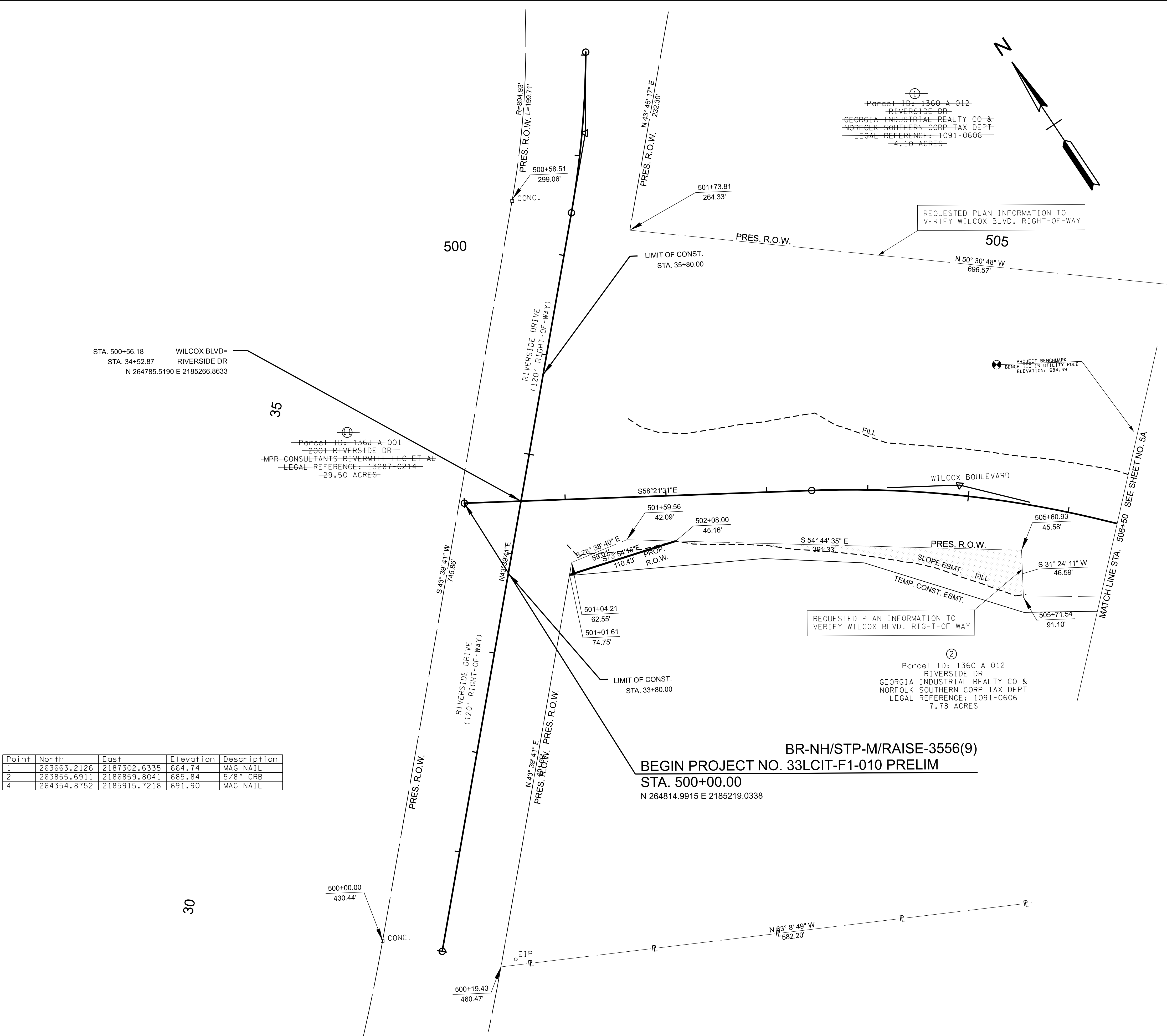
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT
LAYOUT

STA. 500+00.00 TO STA. 506+50.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	4A



Point	North	East	Elevation	Description
1	263663.2126	2187302.6335	664.74	MAG NAIL
2	263855.6911	2186859.8041	685.84	5/8" CRB
4	264354.8752	2185915.7218	691.90	MAG NAIL

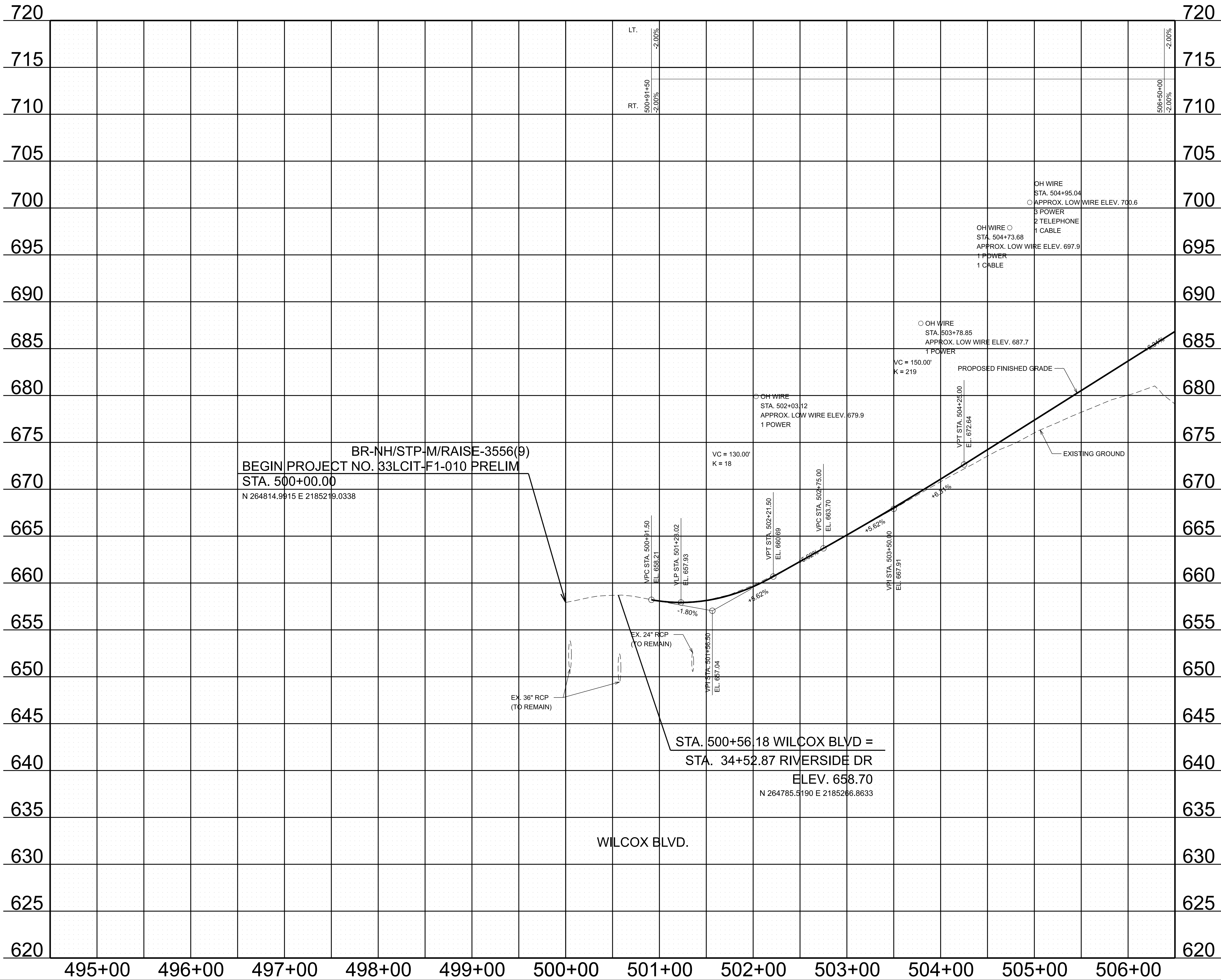
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY
DETAILS

STA. 500+00.00 TO STA. 506+50.00
SCALE: 1" = 50'

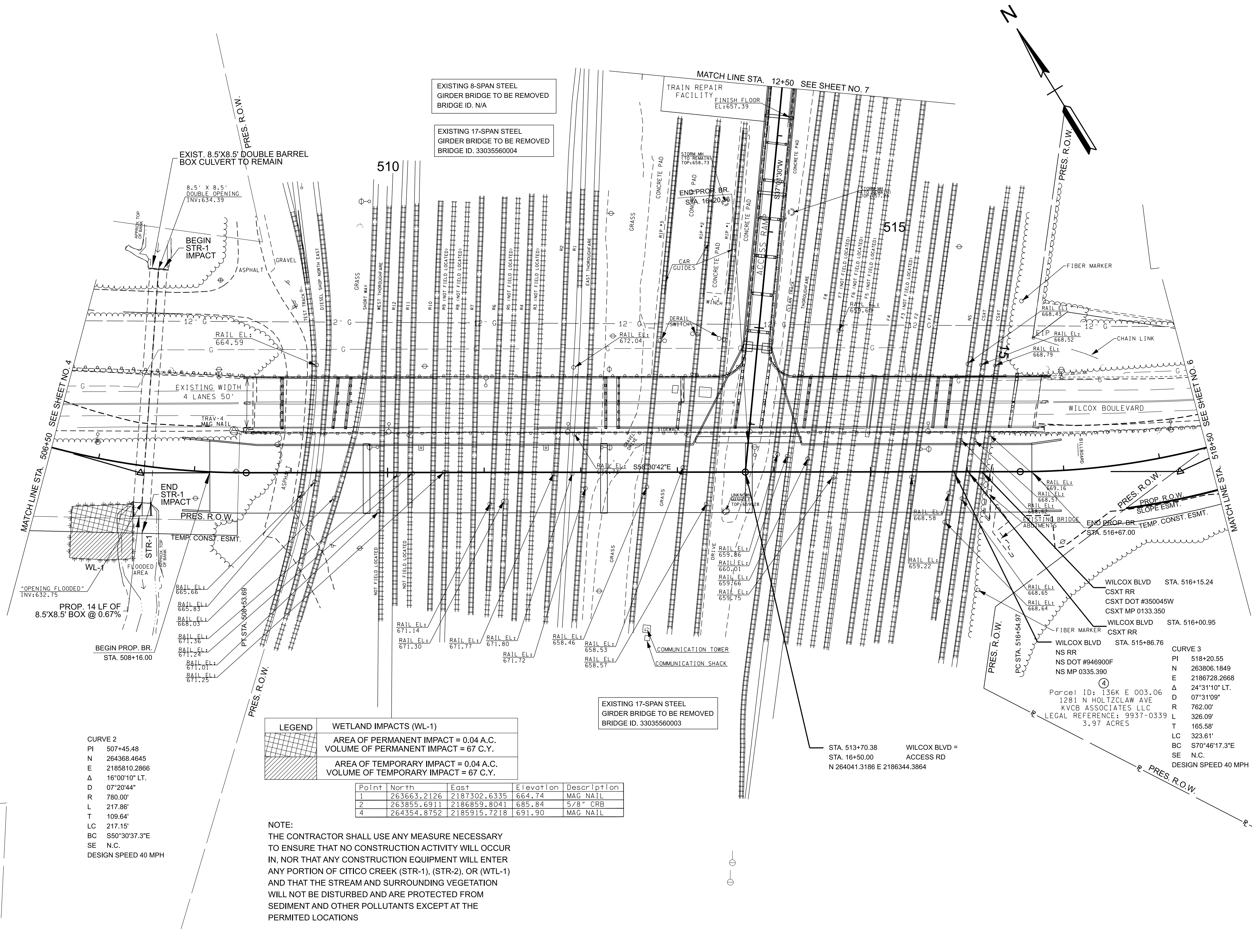


TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	4C

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STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
PROPOSED PROFILE
STA. 500+00.00 TO STA. 506+50.00
SCALE: 1" = 50' HORIZ. 1" = 5' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	5



CURVE 2
PI 507+45.48
N 264368.4645
E 2185810.2866
Δ 16°00'10" LT.
D 07°20'44"
R 780.00'
L 217.86'
T 109.64'
LC 217.15'
BC S50°30'37.3"E
SE N.C.
DESIGN SPEED 40 MPH

LEGEND		WETLAND IMPACTS (WL-1)
		AREA OF PERMANENT IMPACT = 0.04 A.C. VOLUME OF PERMANENT IMPACT = 67 C.Y.
		AREA OF TEMPORARY IMPACT = 0.04 A.C. VOLUME OF TEMPORARY IMPACT = 67 C.Y.

Point	North	East	Elevation	Description
1	263663.2126	2187302.6335	664.74	MAG NAIL
2	263855.6911	2186859.8041	685.84	5/8" CRB
4	264354.8752	2185915.7218	691.90	MAG NAIL

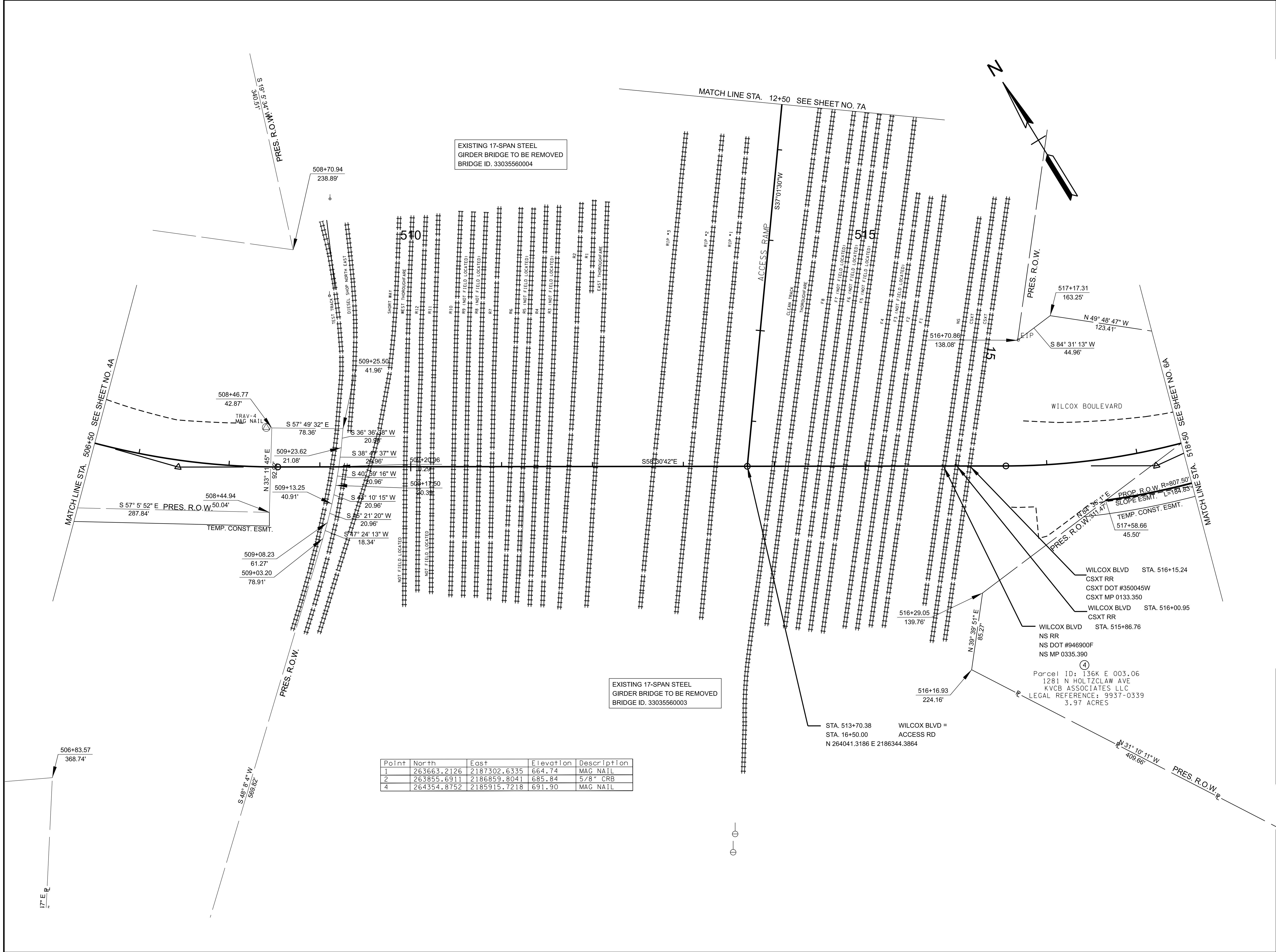
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STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION	
PRESENT LAYOUT	
STA. 506+50.00 TO STA. 518+50.00 STA. 12+50.00 TO STA. 16+50.00 SCALE: 1" = 50'	

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	5A



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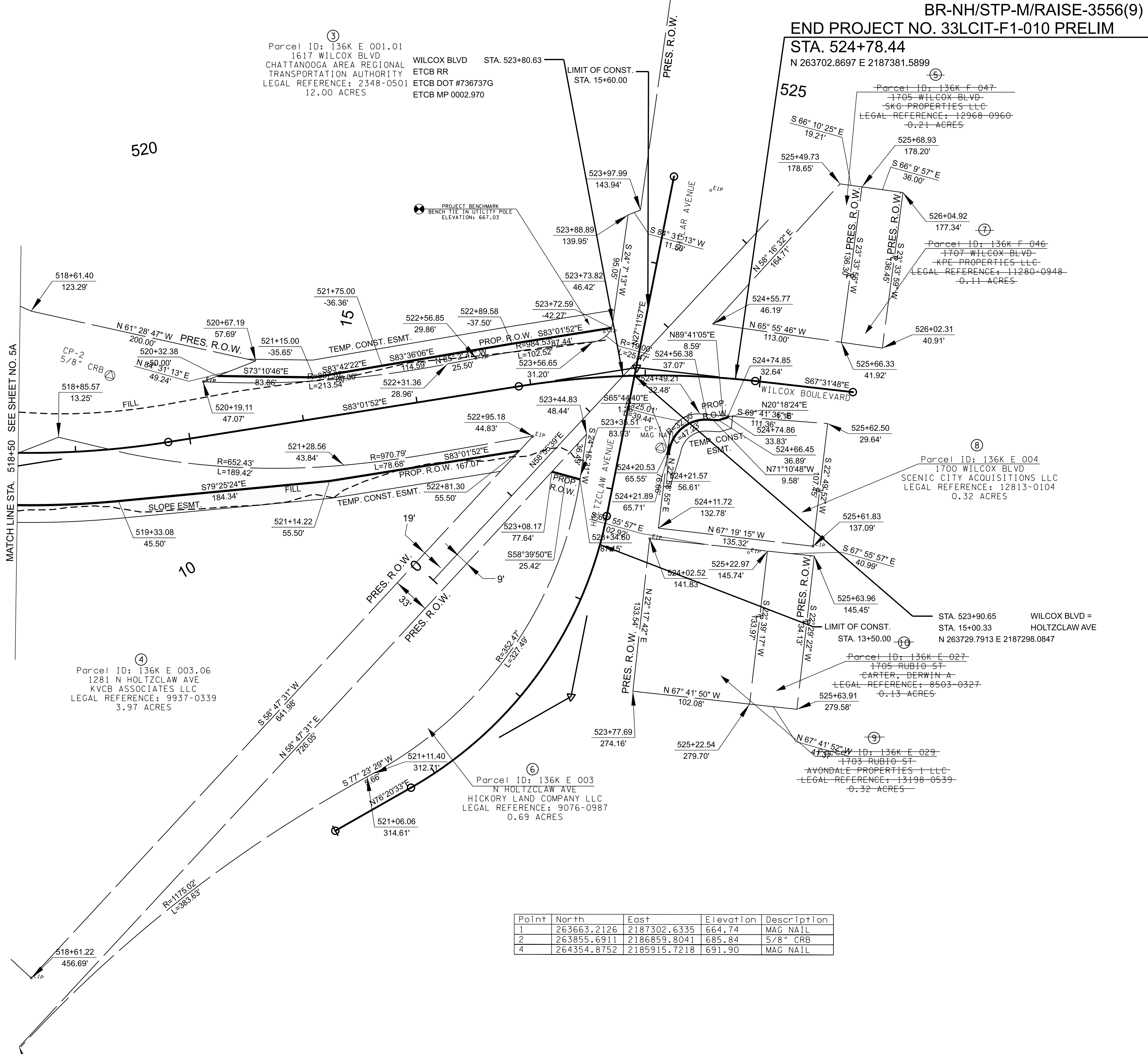
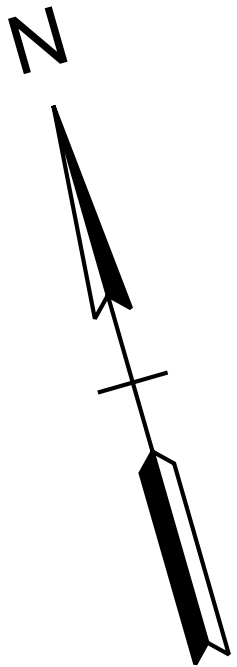
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY
DETAILS

STA. 506+50.00 TO STA. 518+50.00
STA. 12+50.00 TO STA. 16+50.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	6A



TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	7A

Parcel ID: 136K E 001.01
1617 WILCOX BLVD
CHATTANOOGA AREA REGIONAL
TRANSPORTATION AUTHORITY
LEGAL REFERENCE: 2348-0501
12.00 ACRES

S 85° 52' 47" E
402.08'

522+74.76
1034.00'

PRES. R.O.W.

N 39° 35' 13" E
1003.15'

10

LIMIT OF CONST.
STA. 10+60.00

NOT FIELD LOCATED

ACCESS RAMP

NOT FIELD LOCATED

NOT FIELD LOCATED

NOT FIELD LOCATED

EXISTING 8-SPAN STEEL
GIRDER BRIDGE TO BE REMOVED
BRIDGE ID. N/A

MATCH LINE STA. 12+50 SEE SHEET NO. 5A

SEALED BY

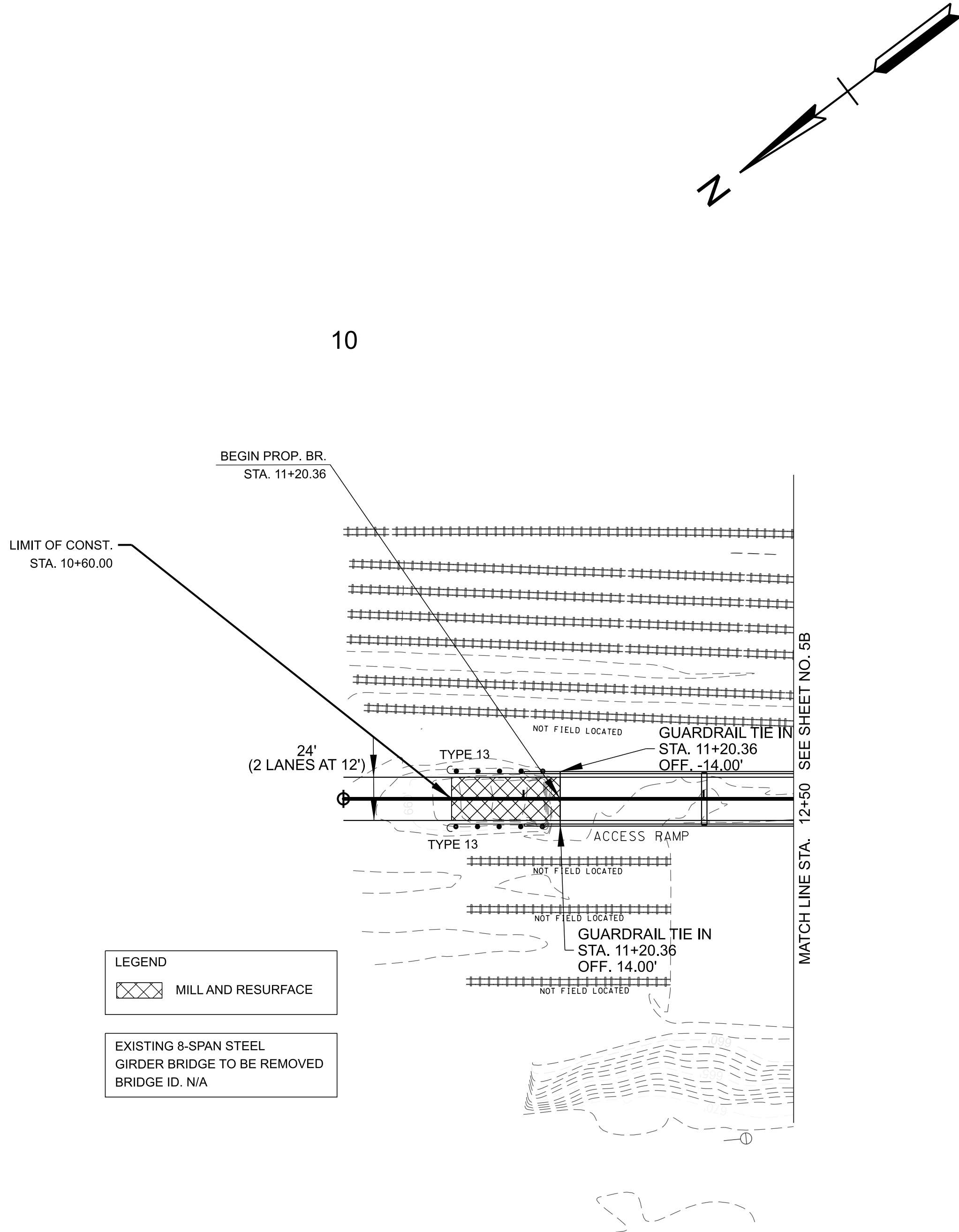
COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12A.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY
DETAILS

STA. 10+00.00 TO STA. 12+50.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	7B



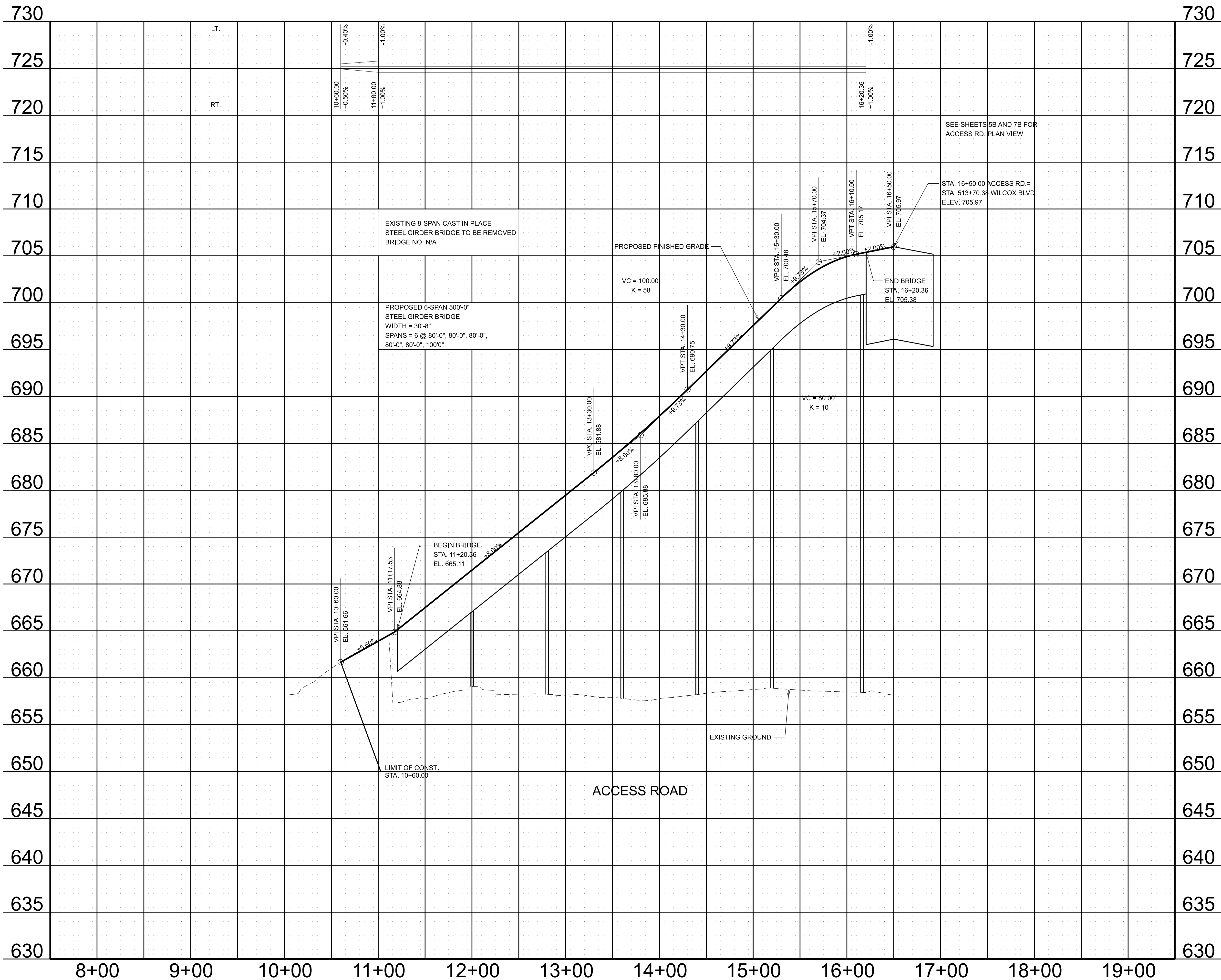
SEALED BY

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12A.

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**PROPOSED
LAYOUT**

STA. 10+00.00 TO STA. 12+50.00
SCALE: 1" = 50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	8

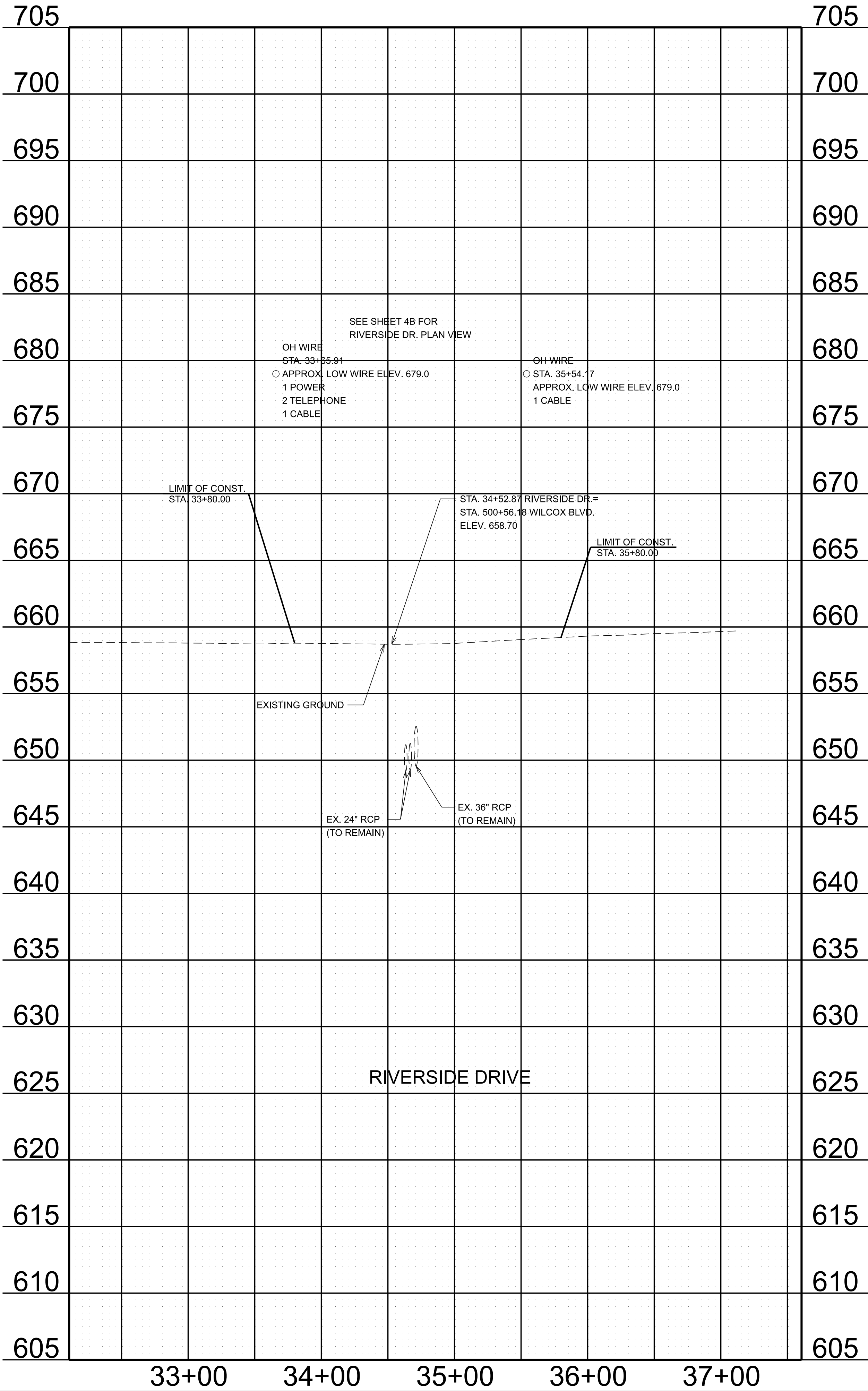
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIDE ROAD
PROFILE

STA. 10+60.00 TO STA. 16+50.00

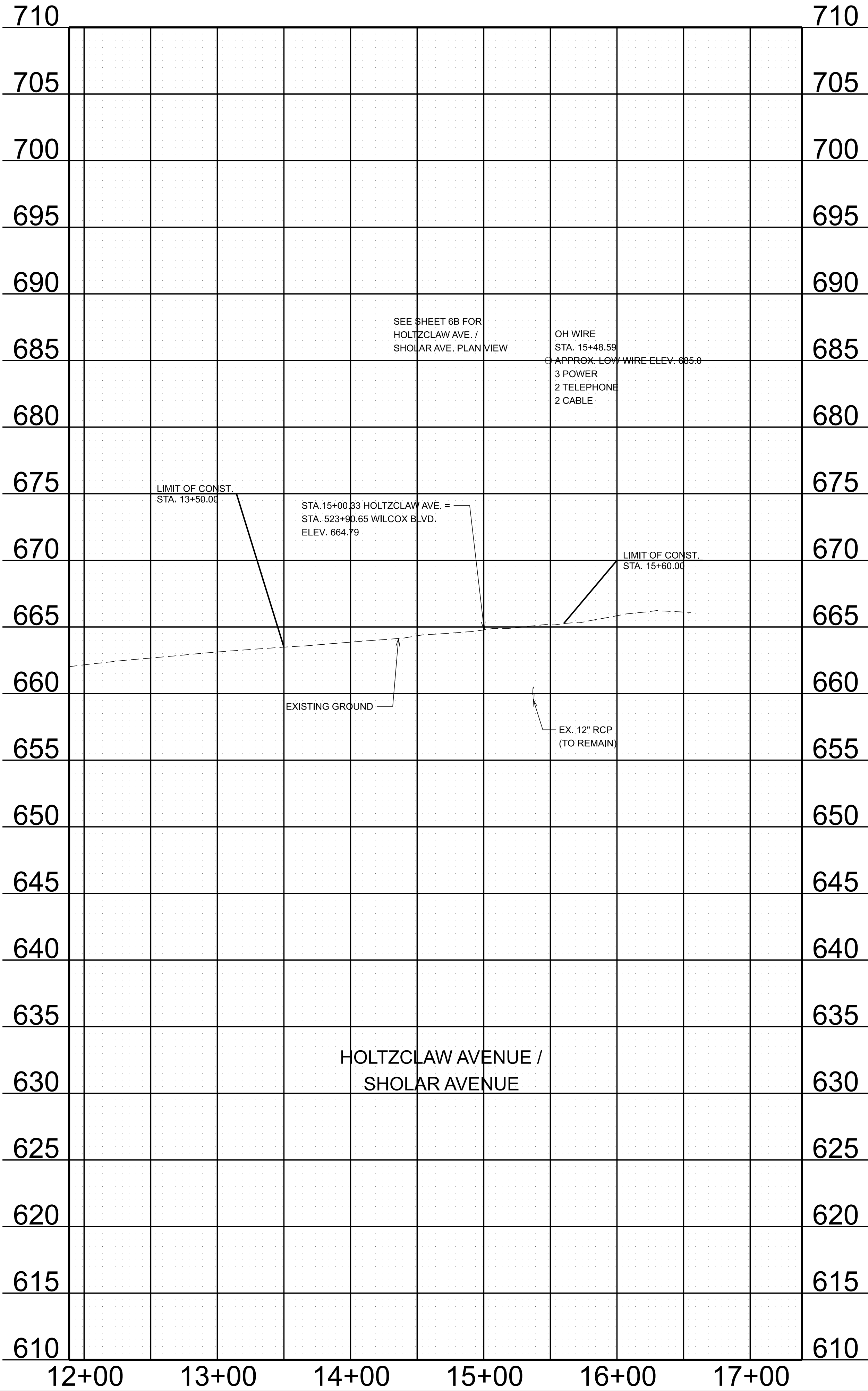
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.



TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	9

SEALED BY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
SIDE ROAD PROFILE
STA. 32+20.00 TO STA. 37+50.00
SCALE: 1" = 50' HORIZ. 1" = 5' VERT.



TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	10

SEALED BY

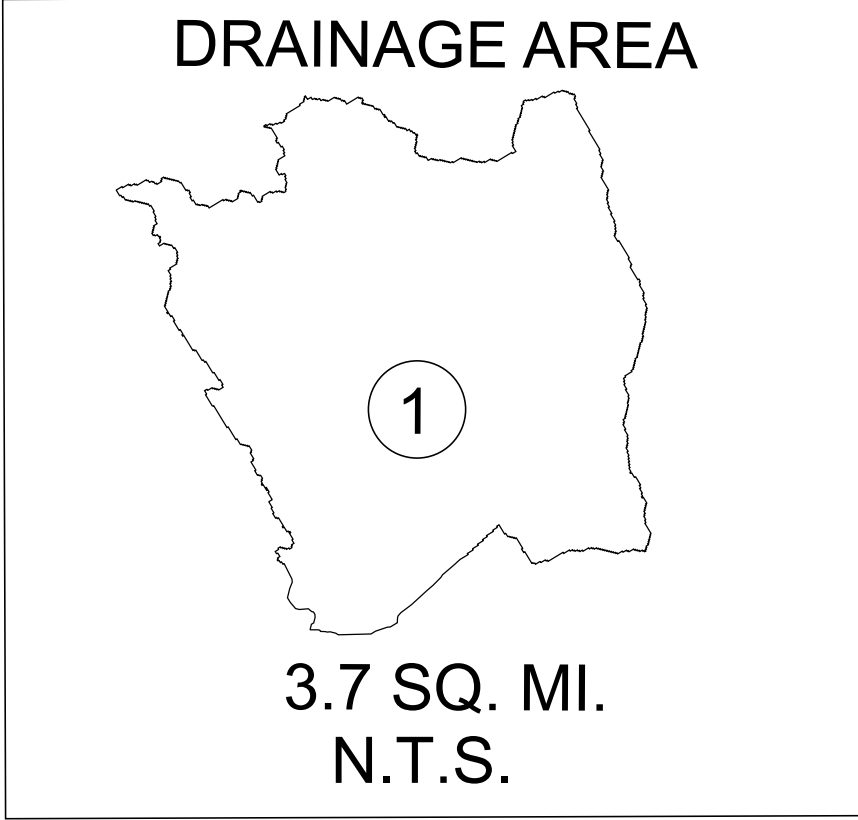
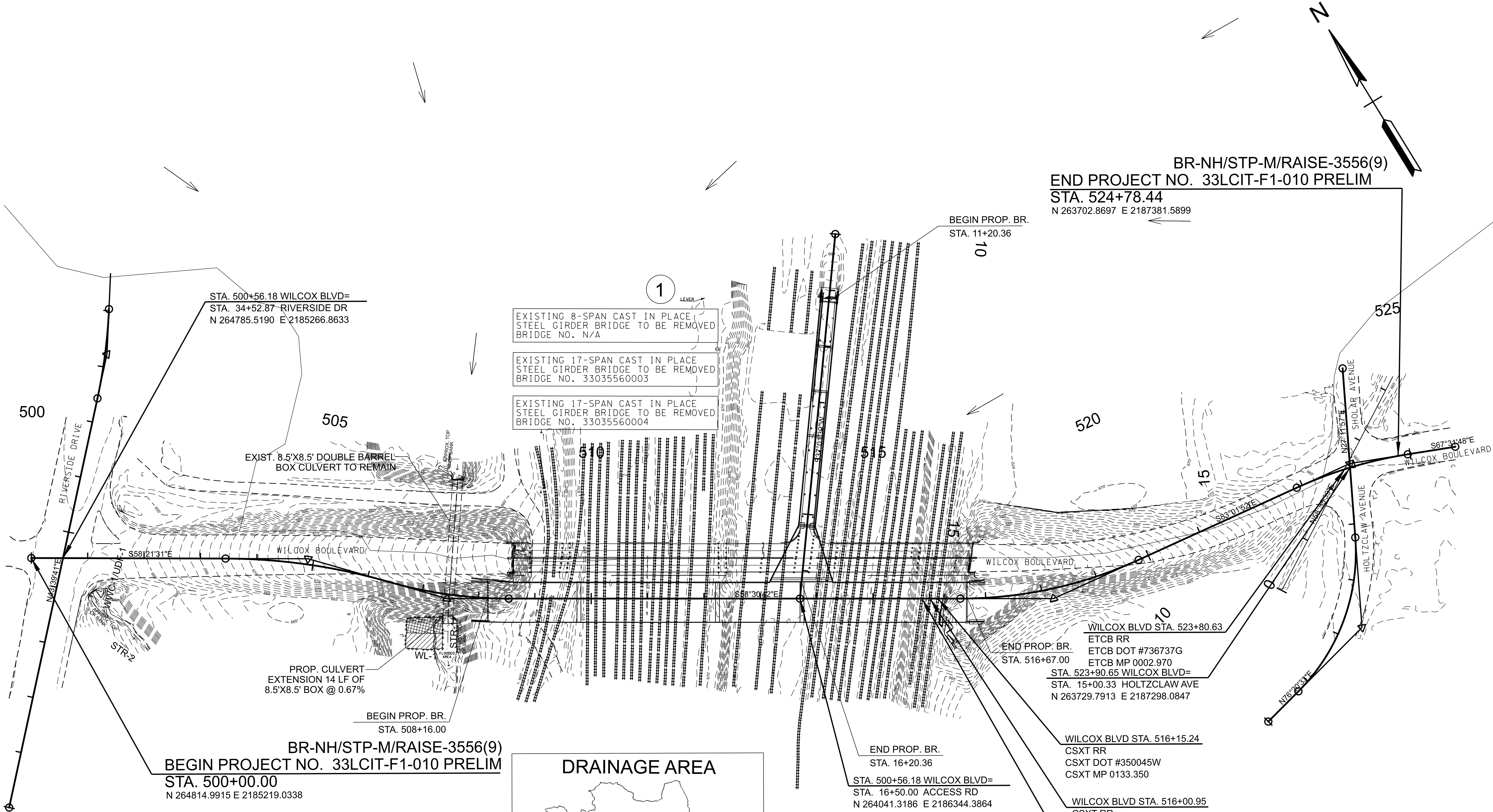
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIDE ROAD
PROFILE

STA. 12+00.00 TO STA. 17+00.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	11



AREA 1 - DRAINAGE DATA FOR BOX CULVERT			
STATION: 507+48.15			
EXISTING STRUCTURE: 2@8.5' X 8.5' BOX CULVERT			
INLET ELEVATION	634.39	FT	
OUTLET ELEVATION	632.75	FT	
SKEW	90	DEG.	
FLOW	NORTH TO SOUTH		
DRAINAGE AREA	3.27	SQ. MI.	
TERRAIN	ROLLING		
IMPERVIOUS AREA	25	%	
DISCHARGE (Q50)	825	CFS	
DISCHARGE (Q100)	961	CFS	
Q50 HEADWATER ELEV.	638.88		
Q100 HEADWATER ELEV.	639.34		
VELOCITY (Q50)	6.84	FT/S	
VELOCITY (Q100)	7.35	FT/S	

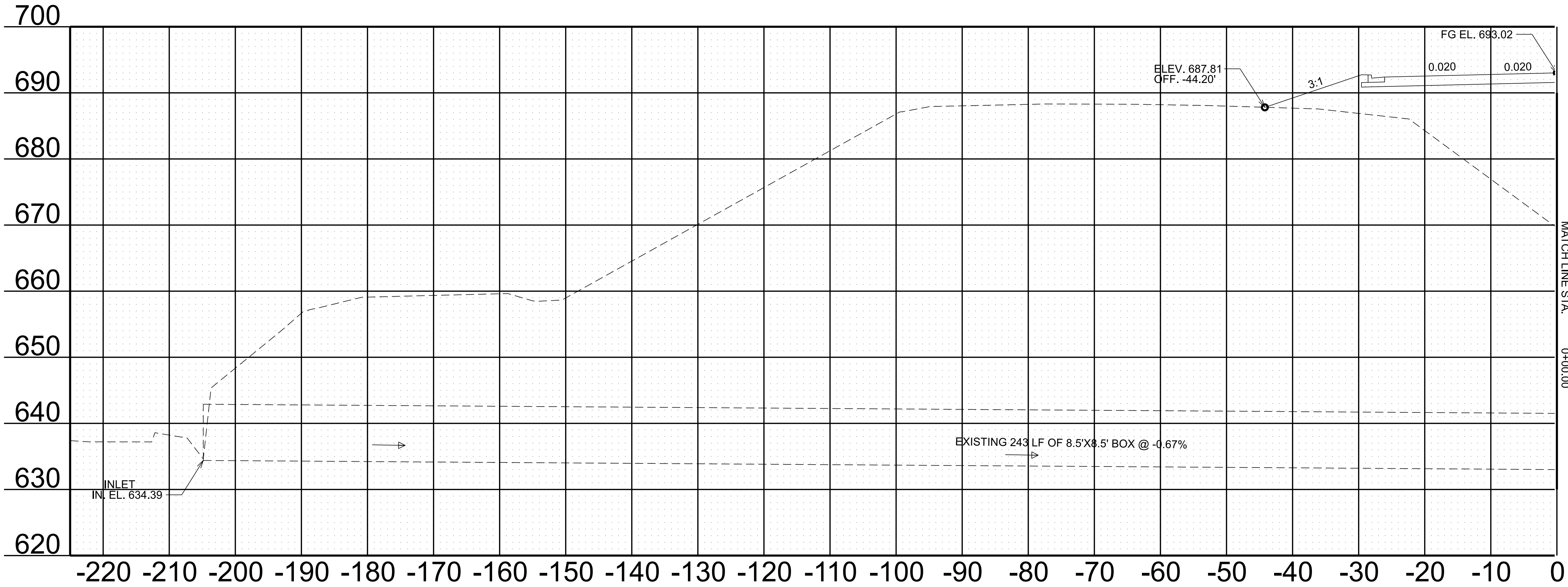
SEALED BY

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12A.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE
MAP

STA. 500+00.00 TO STA. 526+00.00
SCALE: 1" = 100'



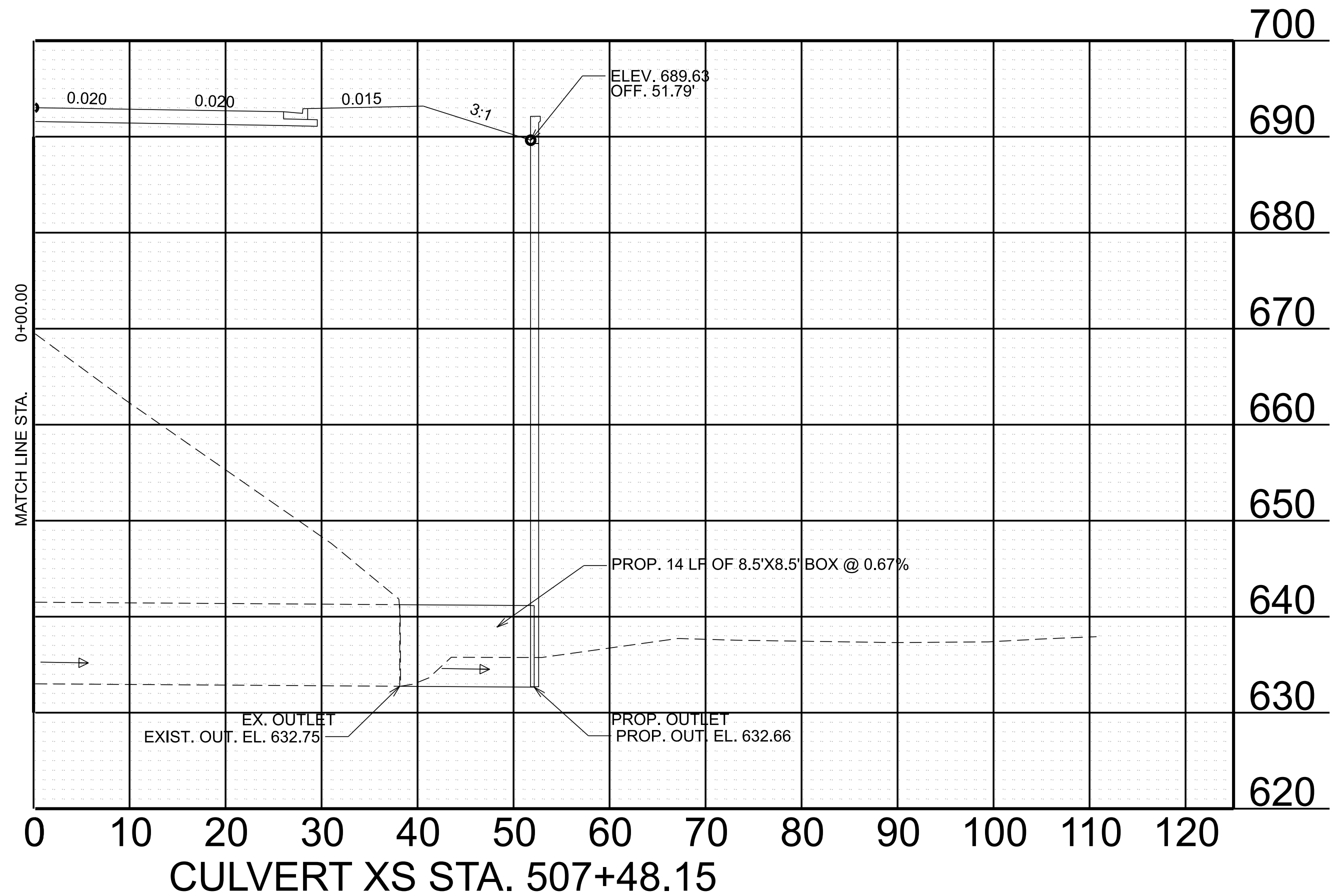
HYDRAULIC DATA

STATION: 507+48.15
STRUCTURE: 257 LF OF 2@8.5'X8.5' BOX CULVERT
SKEW: 90 DEG.
DRAINAGE AREA: 3.27 SQ. MI.
DESIGN DISCHARGE (Q50): 825 CFS
DESIGN DISCHARGE (Q100): 961 CFS
OVERTOPPING: 693.02 ELEV.
ALLOWABLE HEADWATER: 640.34 ELEV.
HEADWATER (Q50): 638.88 ELEV.
HEADWATER (Q100): 639.34 ELEV.
VELOCITY (Q50): 6.67 FT/S
VELOCITY (Q100): 7.18 FT/S
INLET: 634.39 ELEV.
OUTLET: 632.66 ELEV.

QUANTITIES

STANDARD DRAWING NO. STD-17-75
CLASS "A" CONCRETE: 90 C.Y.
STEEL BAR REINFORCING 15,000 LB.

PROPOSED CULVERT

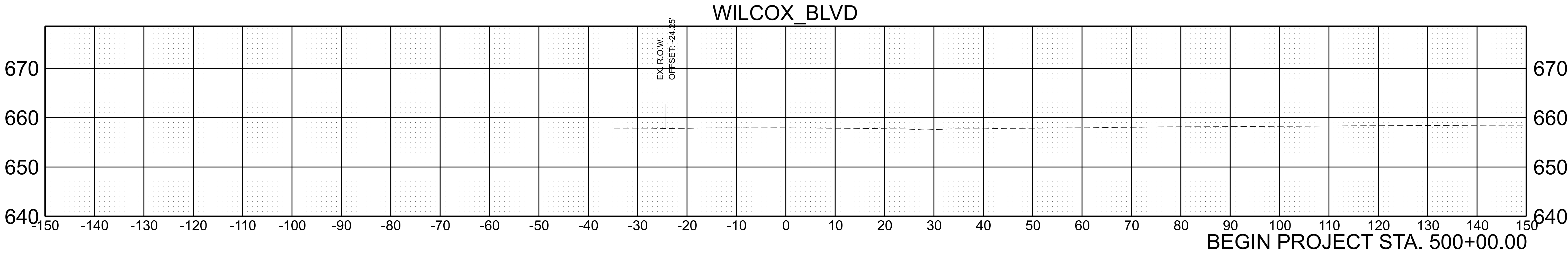
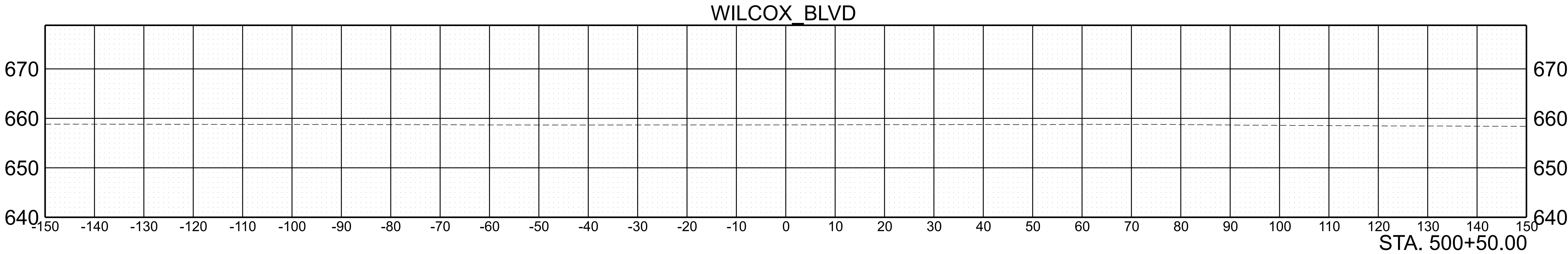


TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	12

SEALED BY

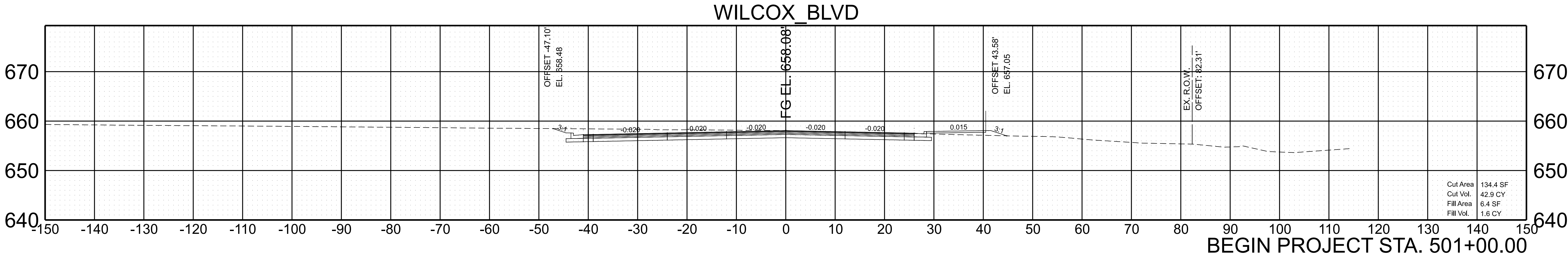
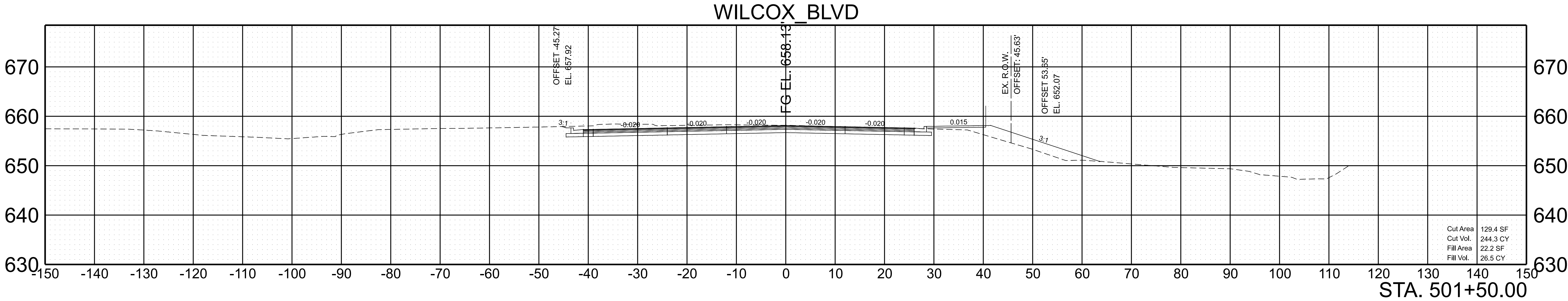
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
CULVERT SECTION
SCALE: 1" = 10' HORIZ. 1" = 5' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	13



SCALE: 1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 500+00.00 END STA. 500+50.00
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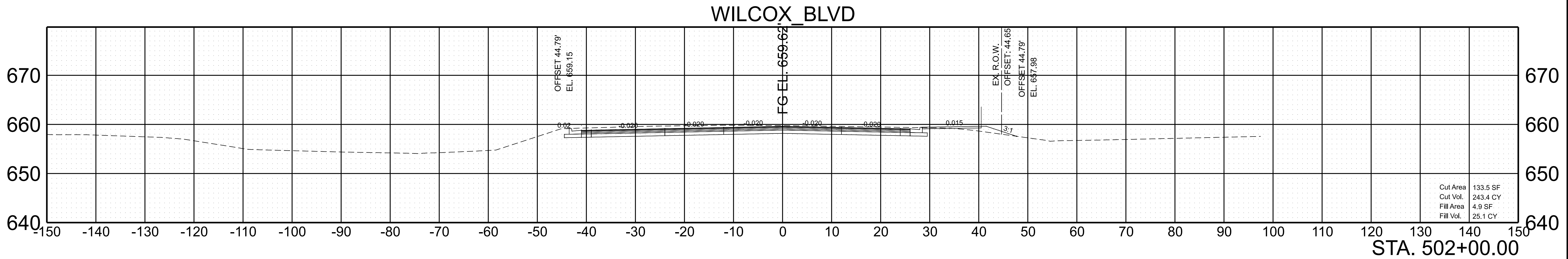
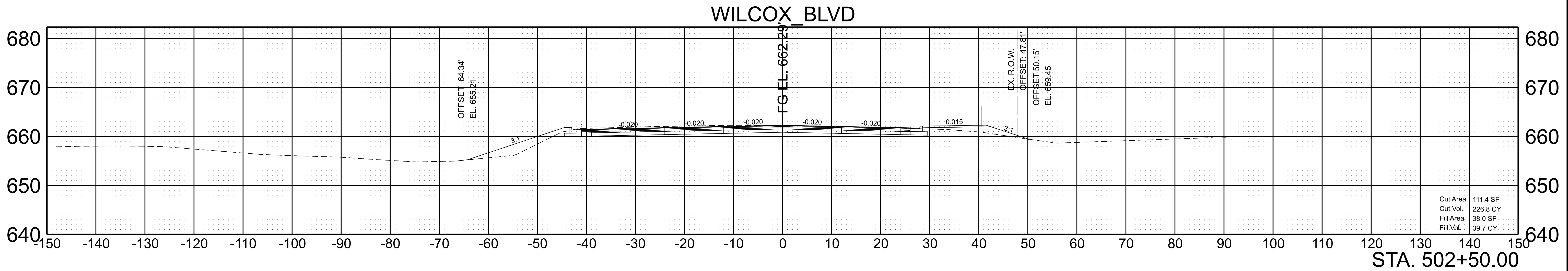
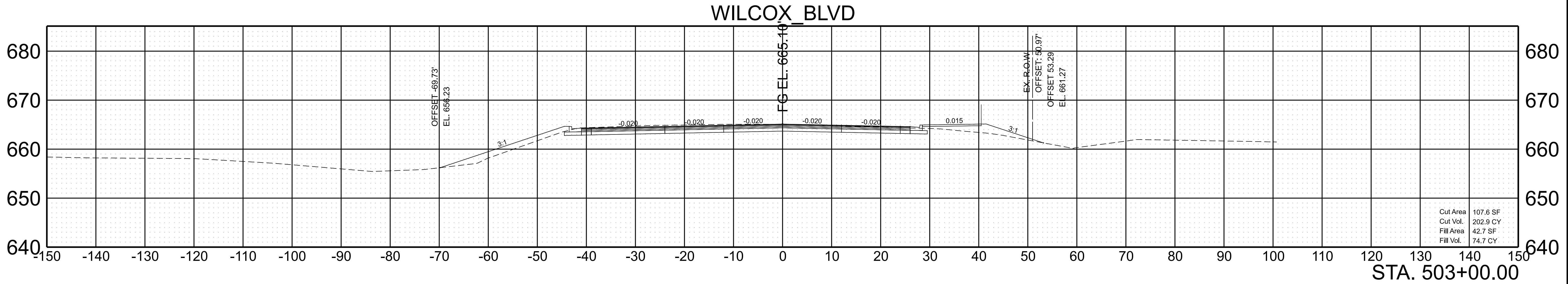
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	14



SCALE:	1"=10' HORIZ.	BEGIN STA. 501+00.00
	1"=10' VERT.	END STA. 501+50.00

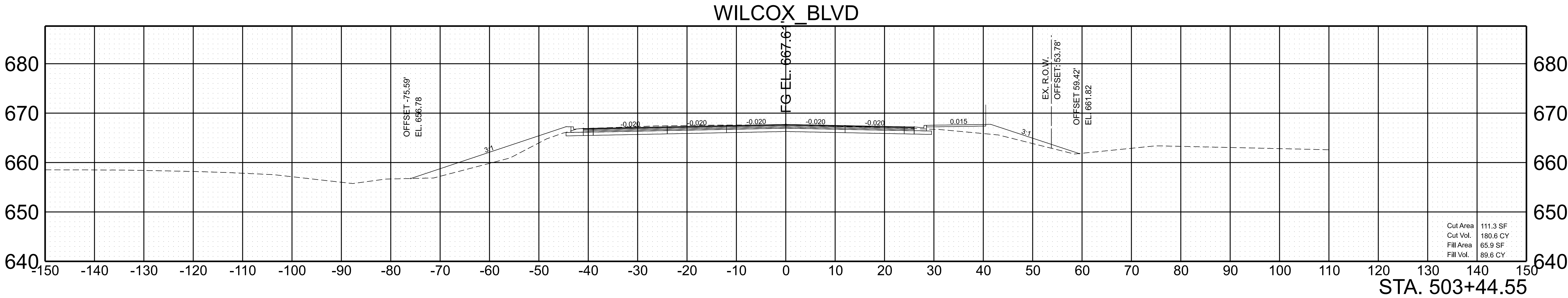
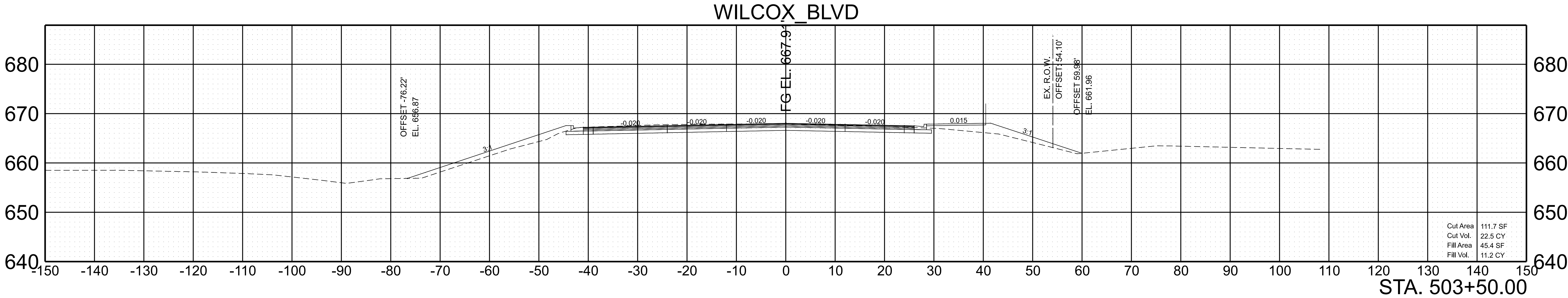
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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	15



SCALE:	1"=10' HORIZ.	BEGIN STA. 502+00.00
	1"=10' VERT.	END STA. 503+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	16

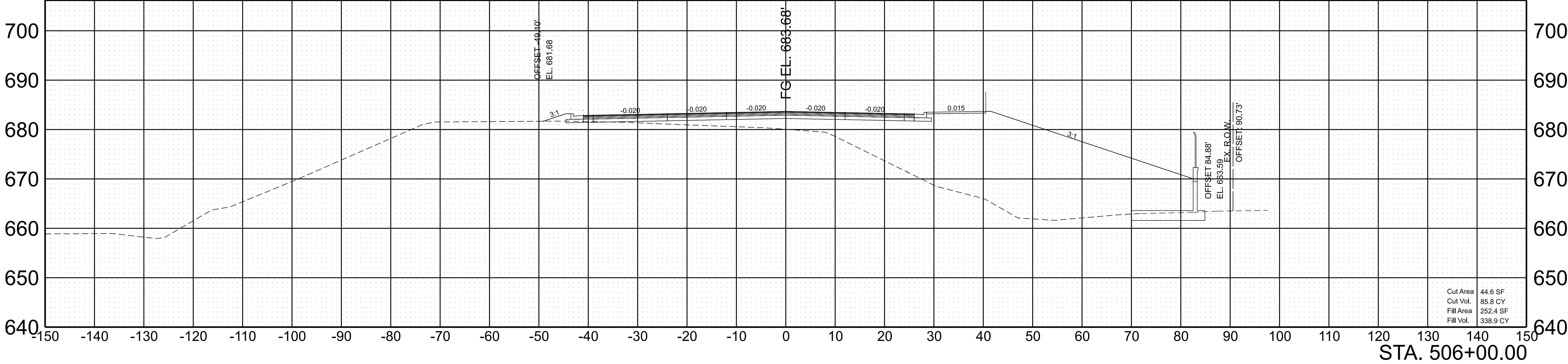


SCALE: 1"=10' HORIZ.
1"=10' VERT.

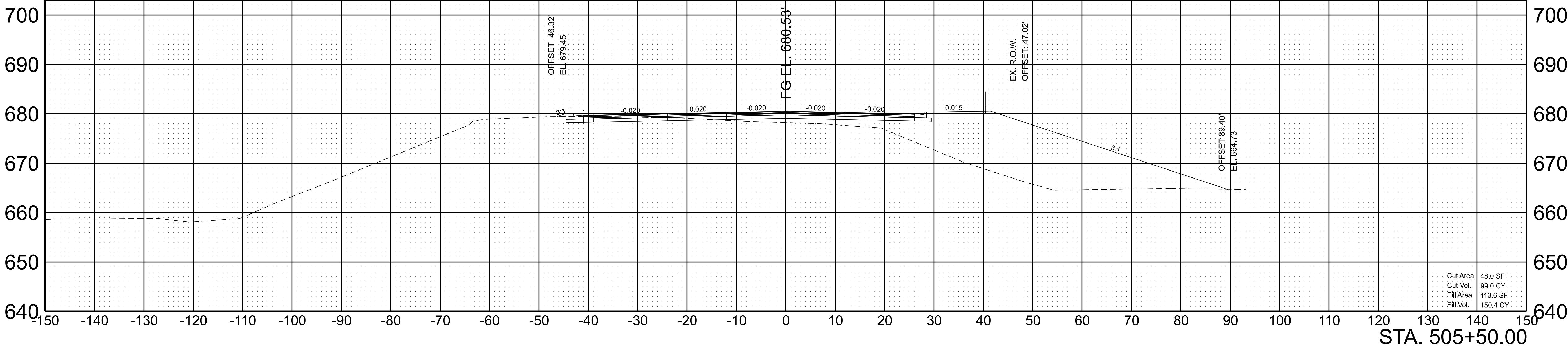
BEGIN STA. 503+44.55
END STA. 503+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	18

WILCOX_BLV



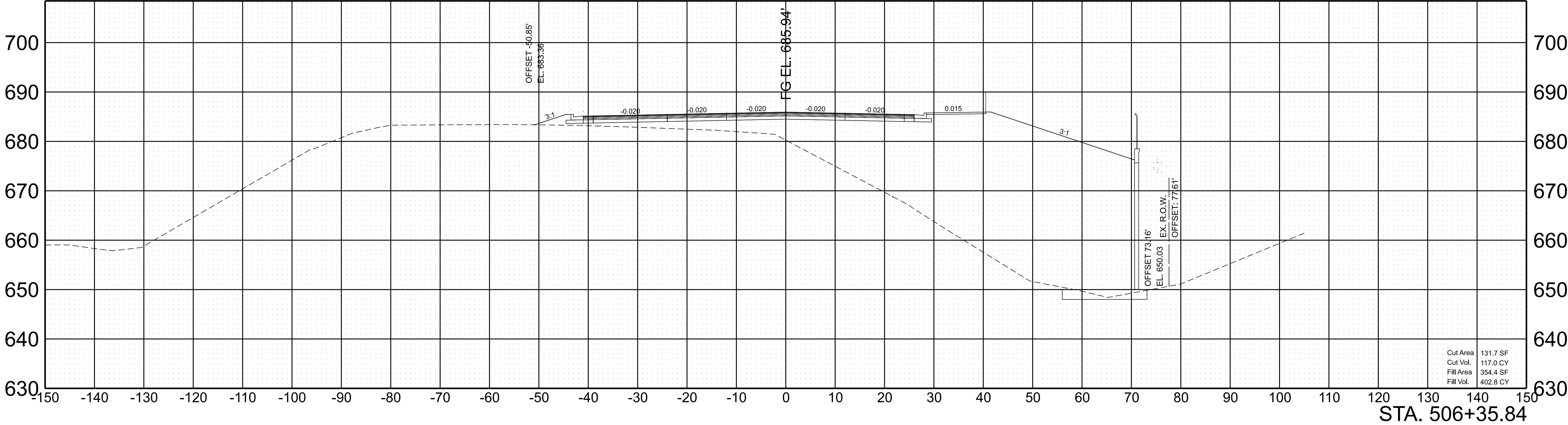
WILCOX_BLV



SCALE:	1"=10' HORIZ.	BEGIN STA. 505+50.00
	1"=10' VERT.	END STA. 506+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	19

WILCOX_BLV



Cut Area
Cut Vol.
Fill Area
Fill Vol.

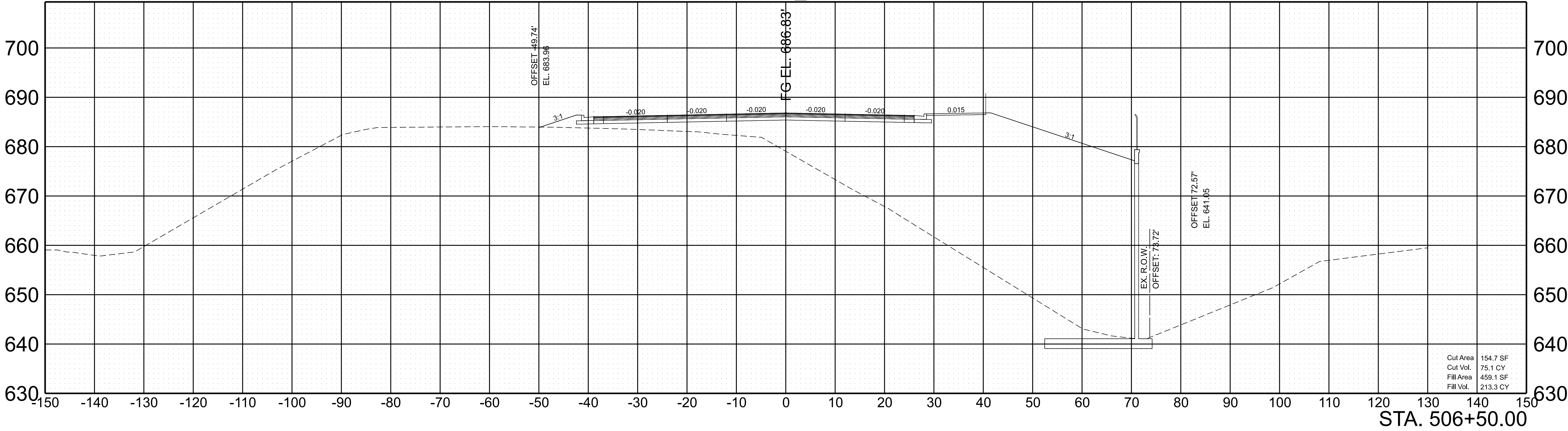
131.7 SF
117.0 CY
354.4 SF
402.8 CY

SCALE: 1"=10' HORIZ.
1"=10' VERT.

BEGIN STA. 506+35.84
END STA. 506+35.84

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	20

WILCOX_BLV

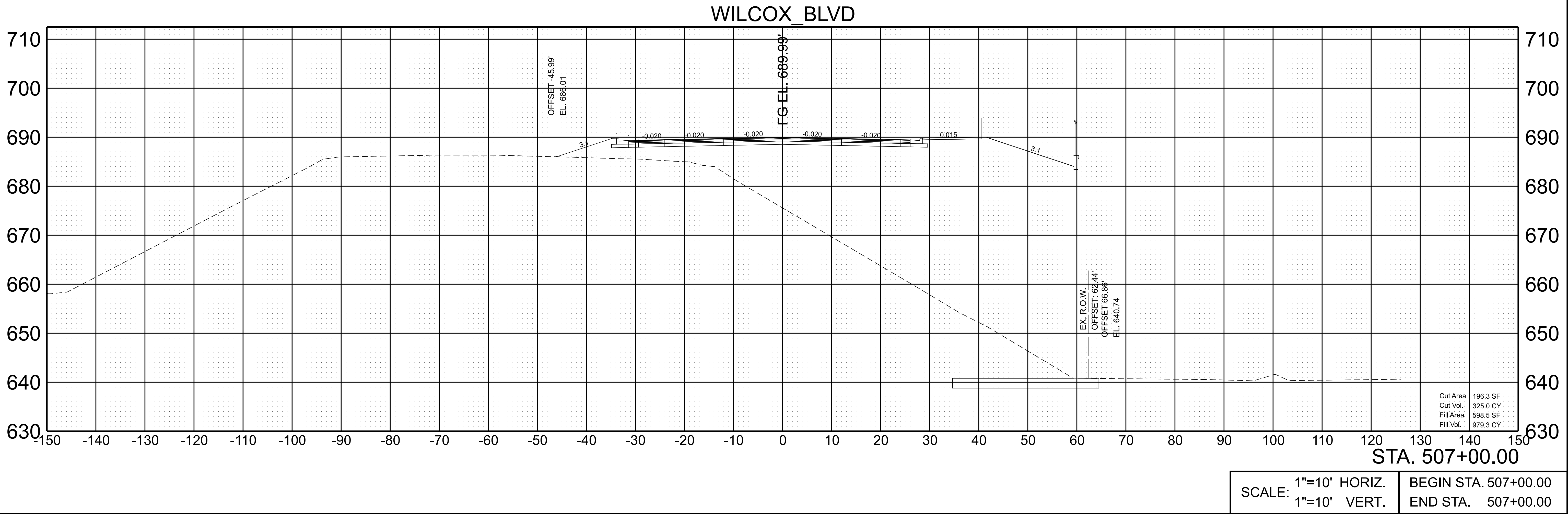


Cut Area 154.7 SF
Cut Vol. 75.1 CY
Fill Area 459.1 SF
Fill Vol. 213.3 CY

SCALE: 1"=10' HORIZ.
1"=10' VERT.

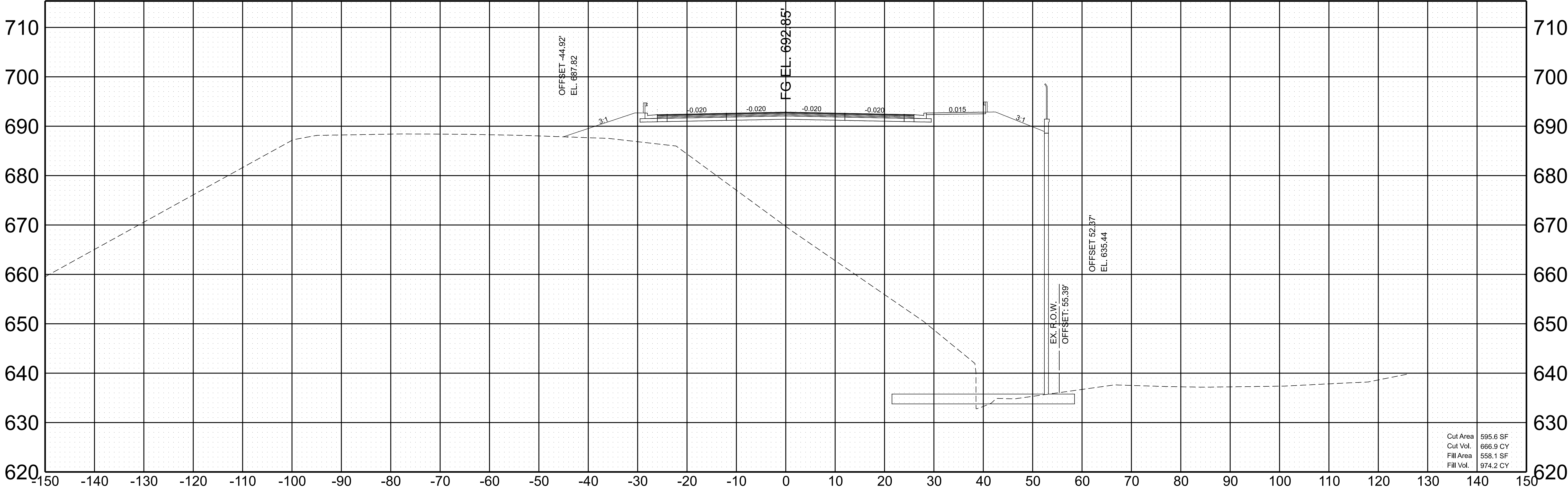
BEGIN STA. 506+50.00
END STA. 506+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	21



TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	22

WILCOX_BLV



Cut Area 595.6 SF
Cut Vol. 666.9 CY
Fill Area 558.1 SF
Fill Vol. 974.2 CY

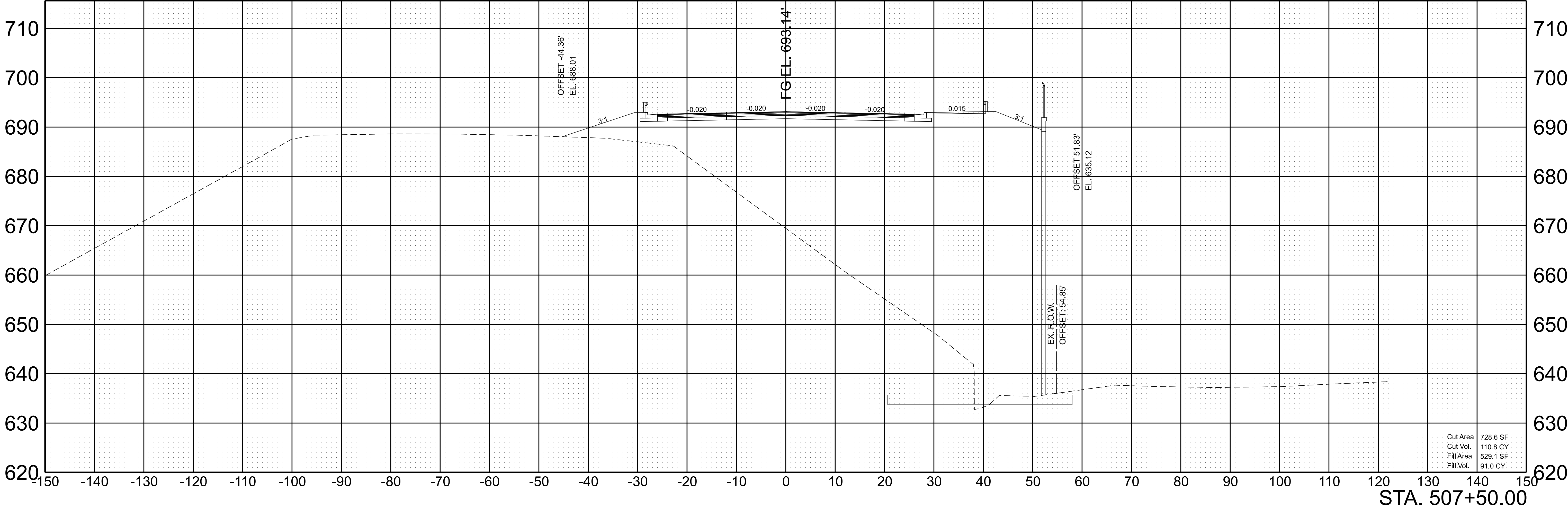
STA. 507+45.48

SCALE: 1"=10' HORIZ.
1"=10' VERT.

BEGIN STA. 507+45.48
END STA. 507+45.48

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	23

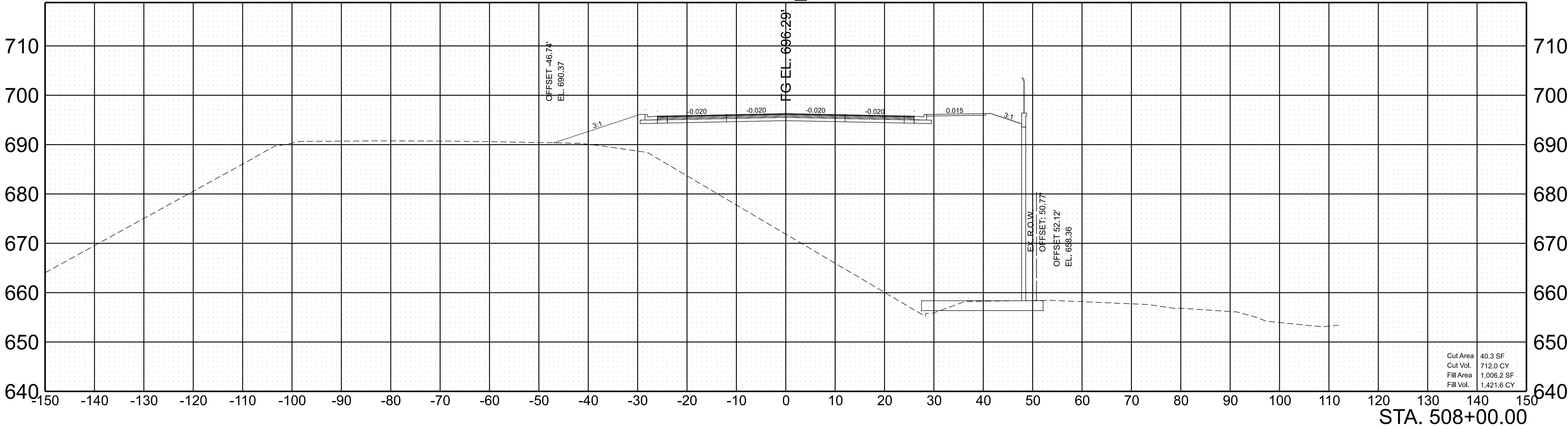
WILCOX_BLV



SCALE: 1"=10' HORIZ.	BEGIN STA. 507+50.00
1"=10' VERT.	END STA. 507+50.00

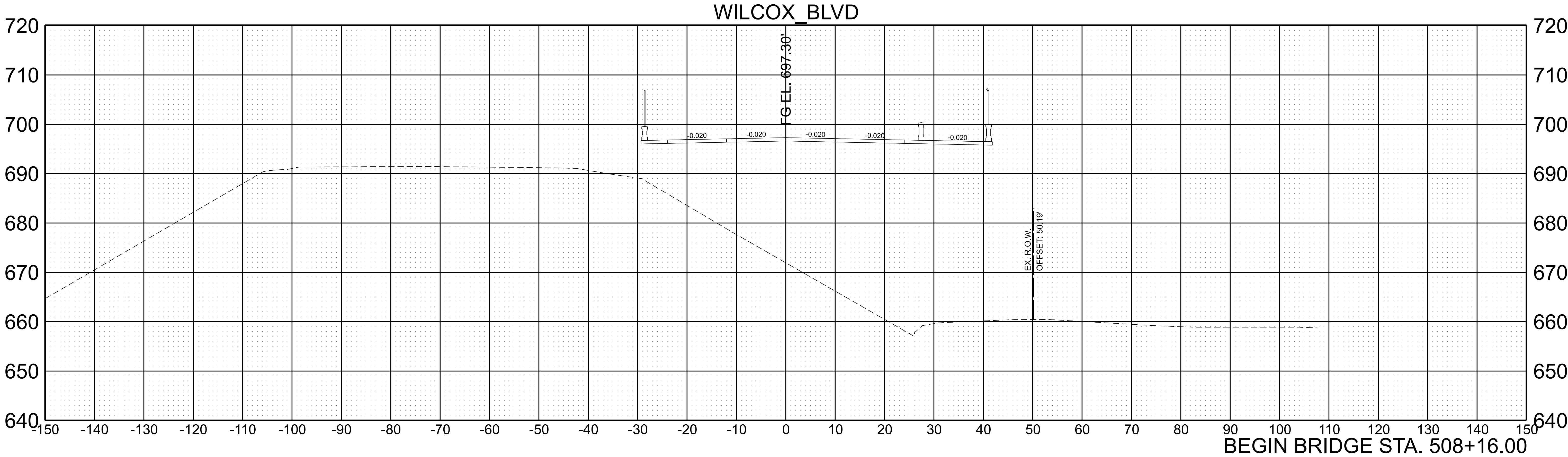
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	24

WILCOX_BLV



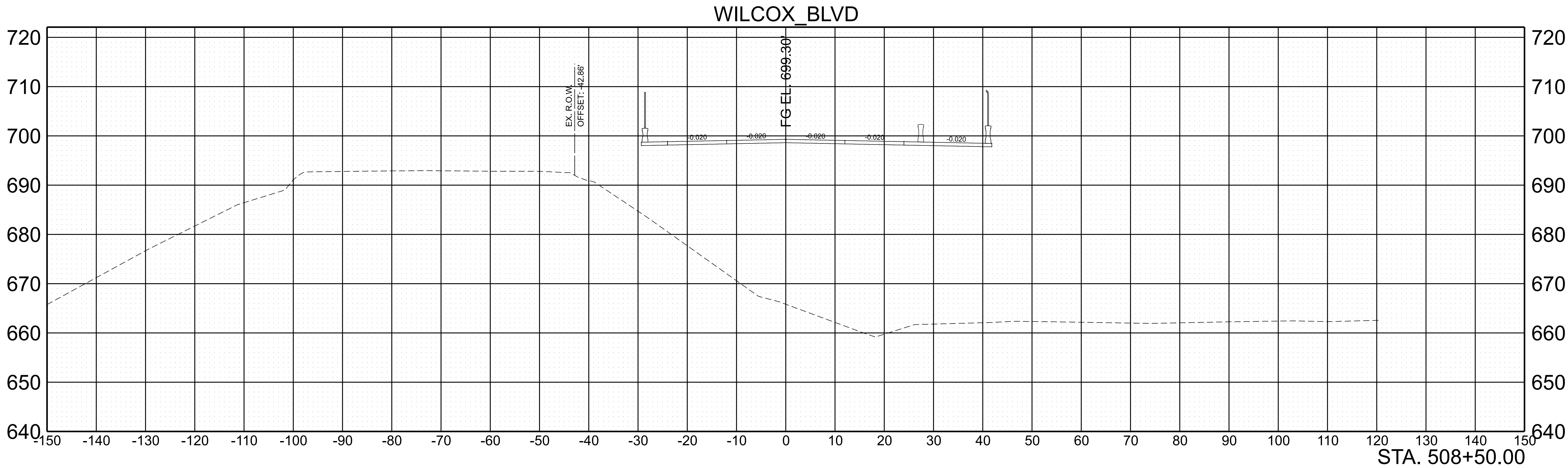
SCALE:	1"=10' HORIZ.	BEGIN STA. 508+00.00
	1"=10' VERT.	END STA. 508+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	25



SCALE: 1"=10' HORIZ.	BEGIN STA. 508+16.00
1"=10' VERT.	END STA. 508+16.00

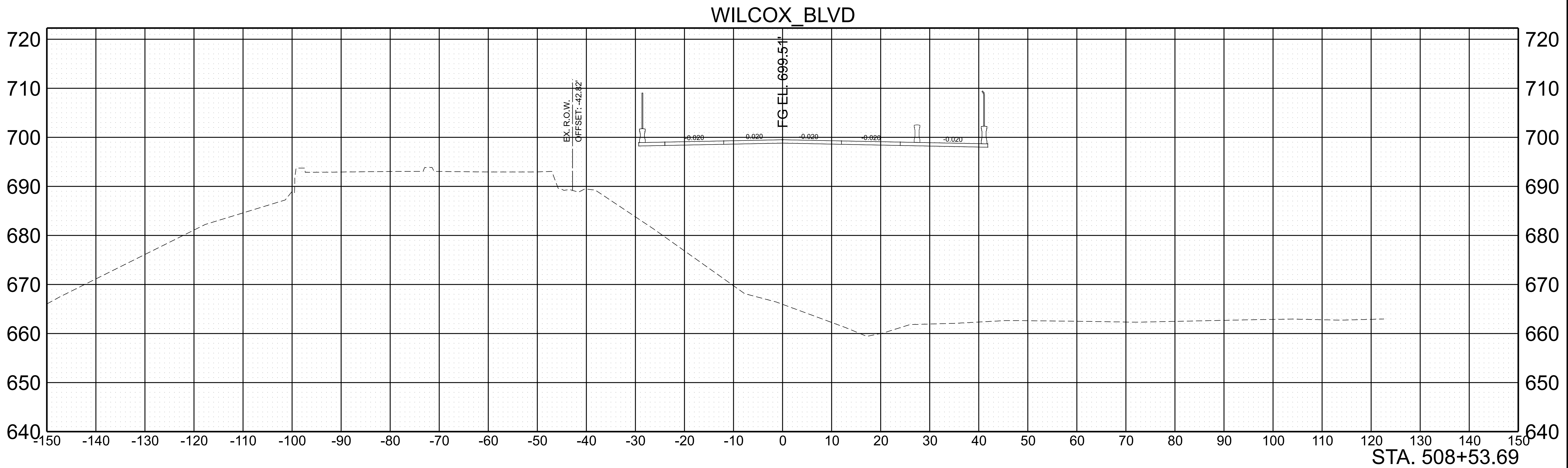
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	26



STA. 508+50.00

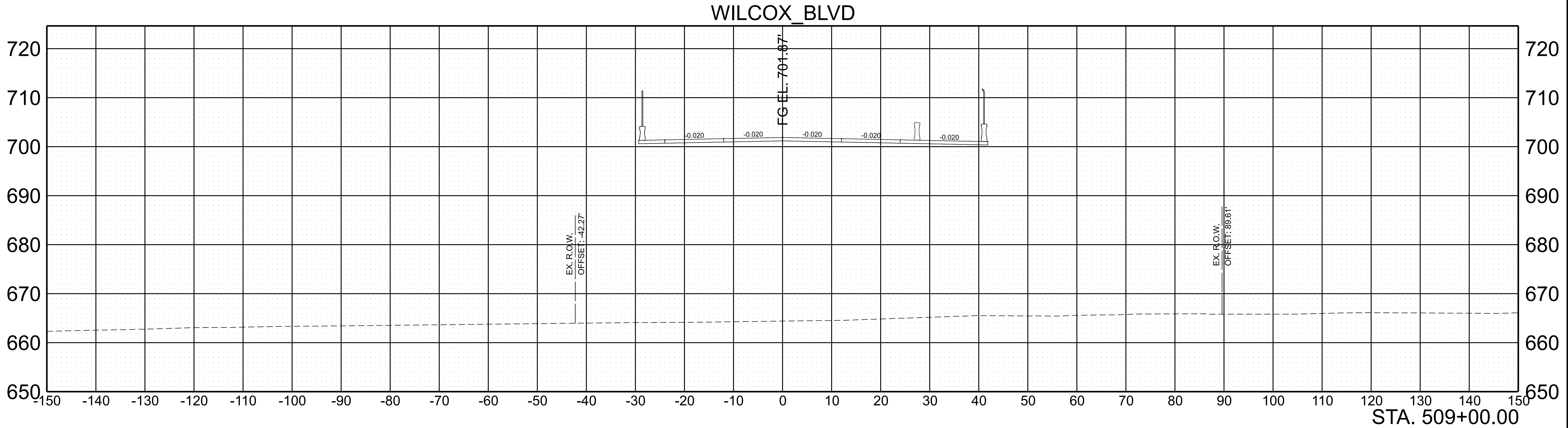
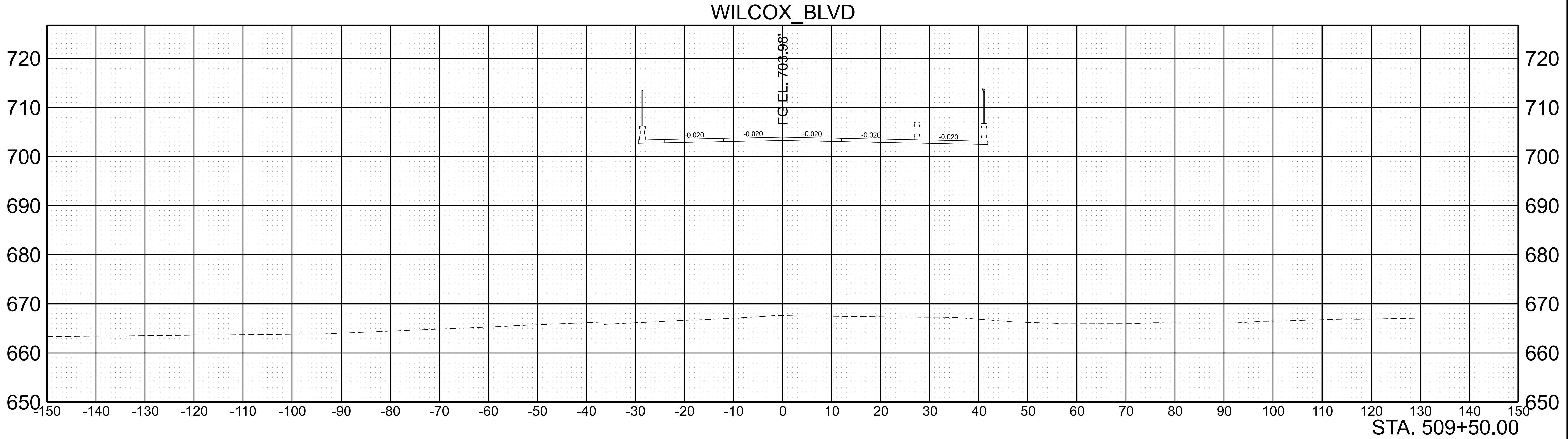
SCALE: 1"=10' HORIZ.	BEGIN STA. 508+50.00
1"=10' VERT.	END STA. 508+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	27



SCALE: 1"=10' HORIZ.	BEGIN STA. 508+53.69
1"=10' VERT.	END STA. 508+53.69

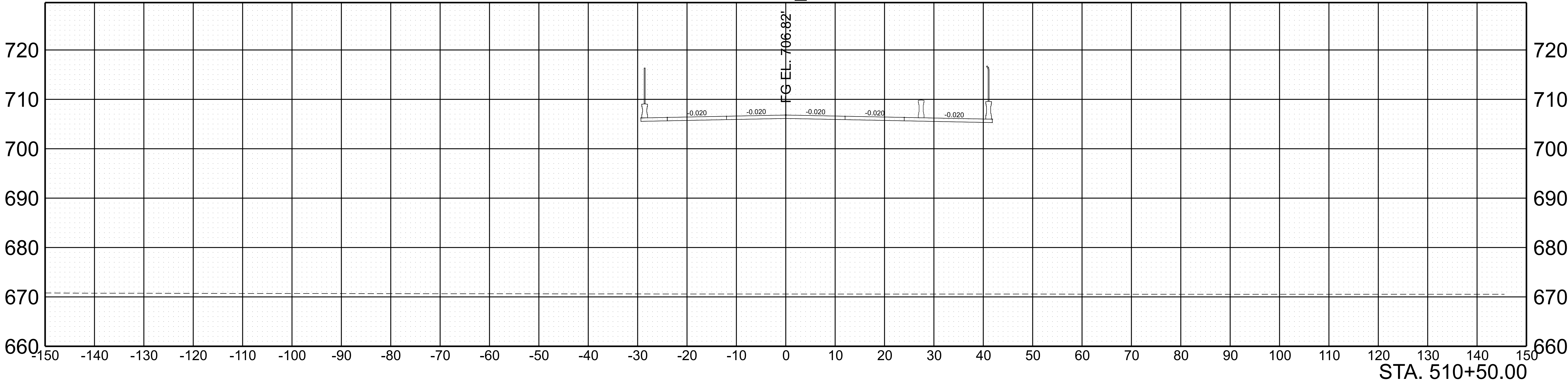
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	28



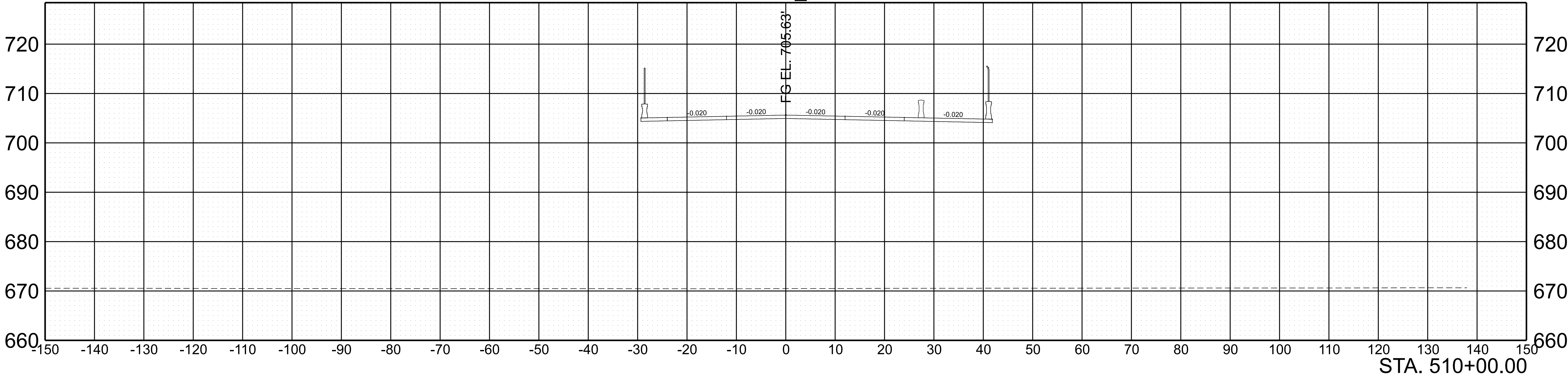
SCALE:	1"=10' HORIZ.	BEGIN STA. 509+00.00
	1"=10' VERT.	END STA. 509+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	29

WILCOX_BLV

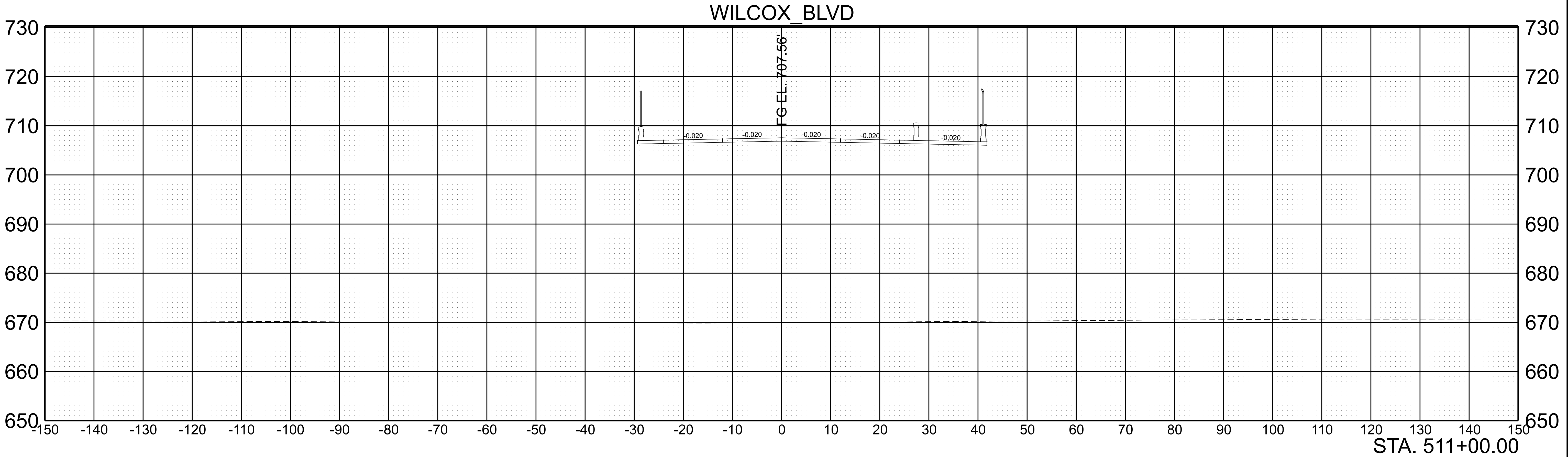
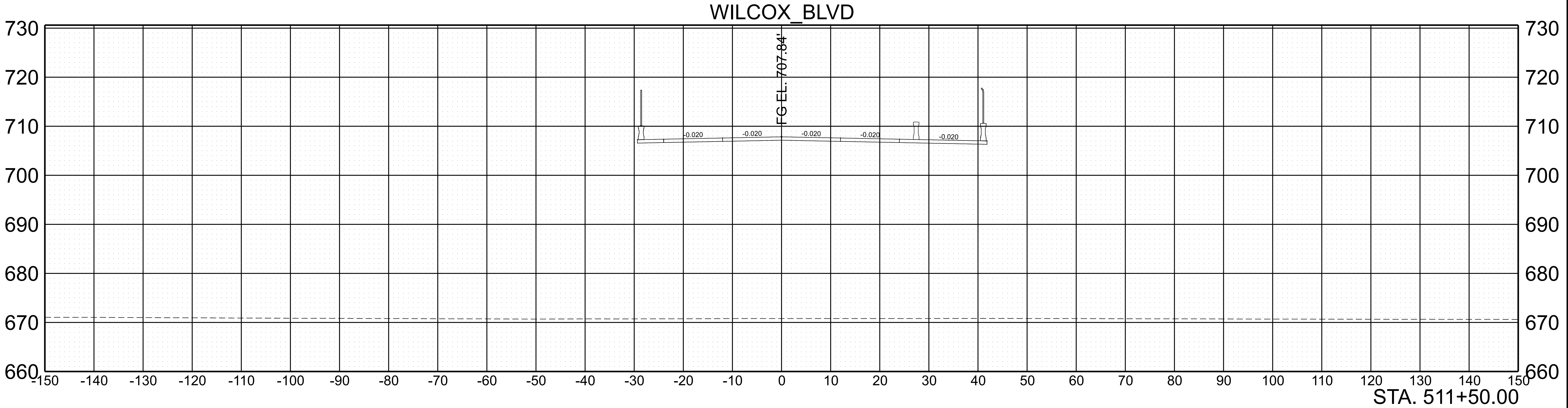


WILCOX_BLV



SCALE: 1"=10' HORIZ.	BEGIN STA. 510+00.00
1"=10' VERT.	END STA. 510+50.00

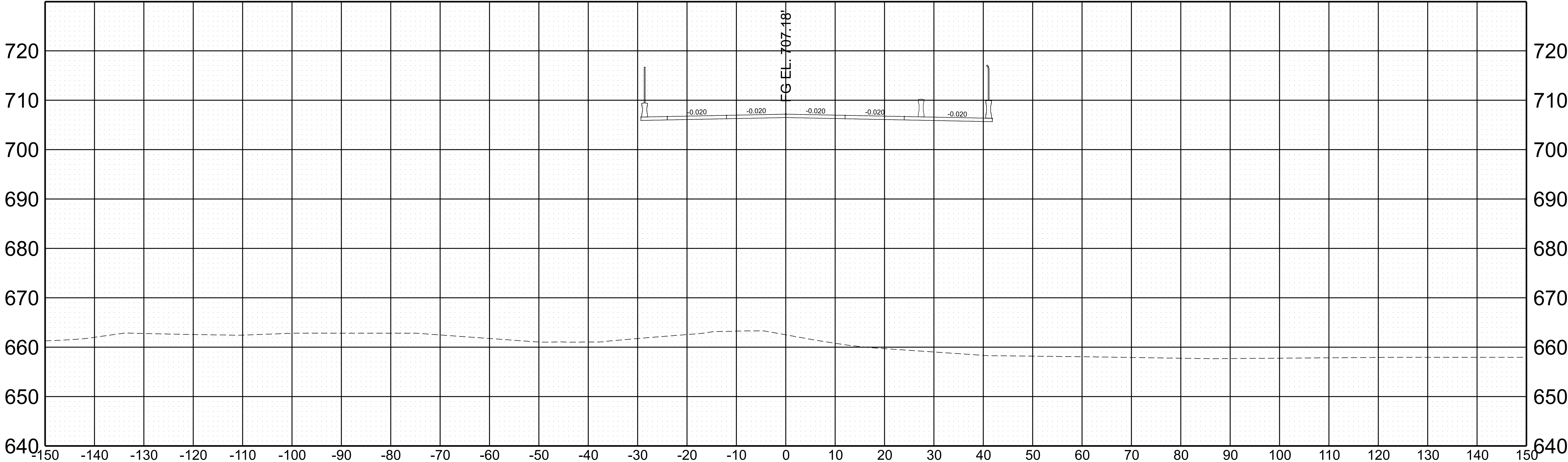
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	30



SCALE: 1"=10' HORIZ.	BEGIN STA. 511+00.00
1"=10' VERT.	END STA. 511+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	32

WILCOX_BLV

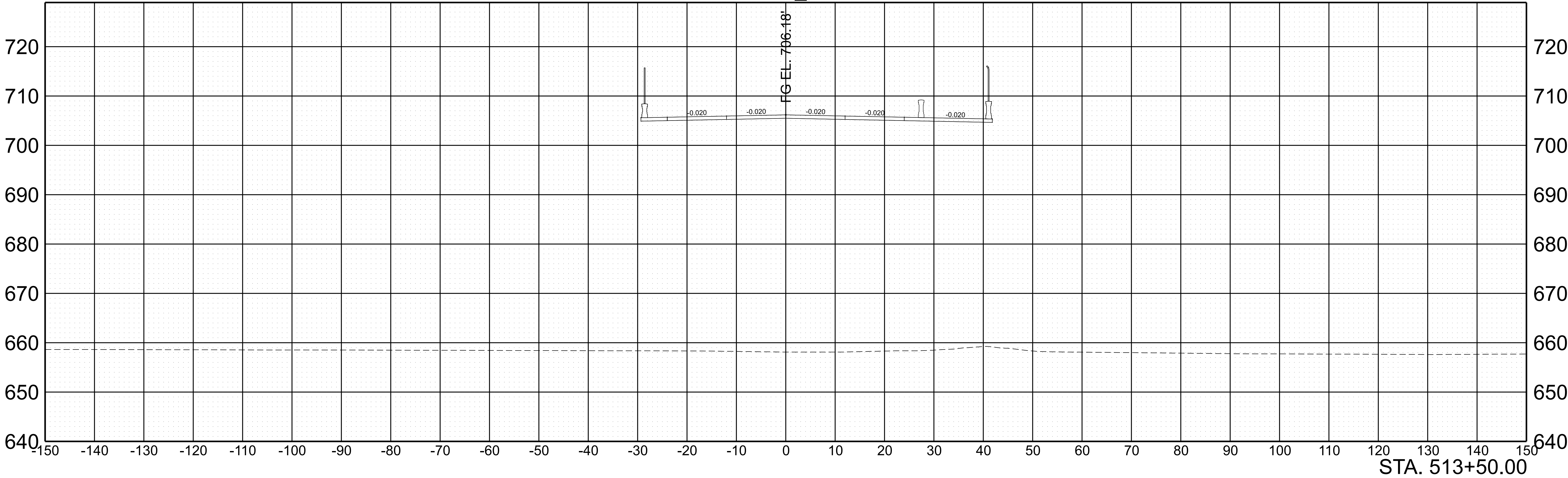


STA. 512+50.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 512+50.00
	1"=10' VERT.	END STA. 512+50.00

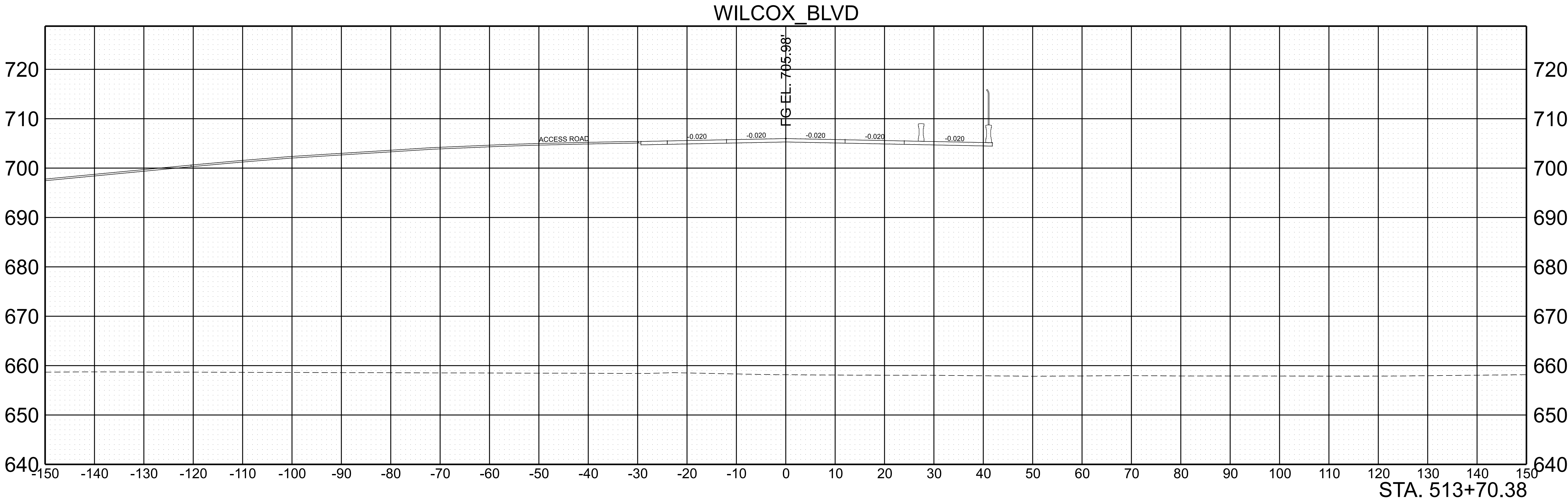
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	34

WILCOX_BLV



SCALE: 1"=10' HORIZ.	BEGIN STA. 513+50.00
1"=10' VERT.	END STA. 513+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	35



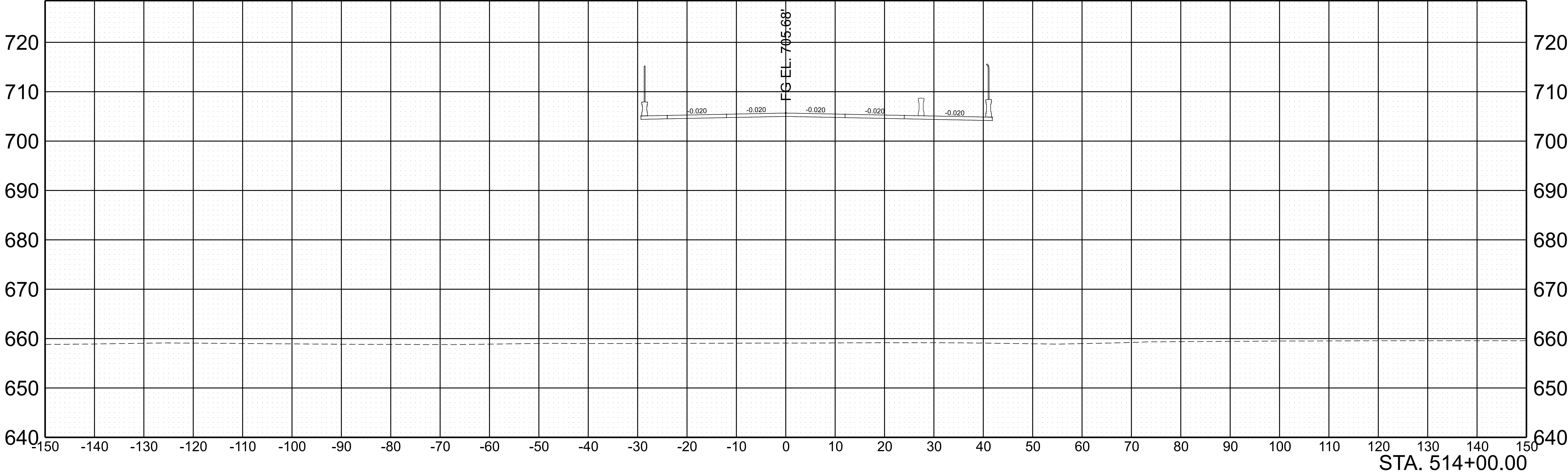
STA. 513+70.38

SCALE: 1"=10' HORIZ.
1"=10' VERT.

BEGIN STA. 513+70.38
END STA. 513+70.38

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	36

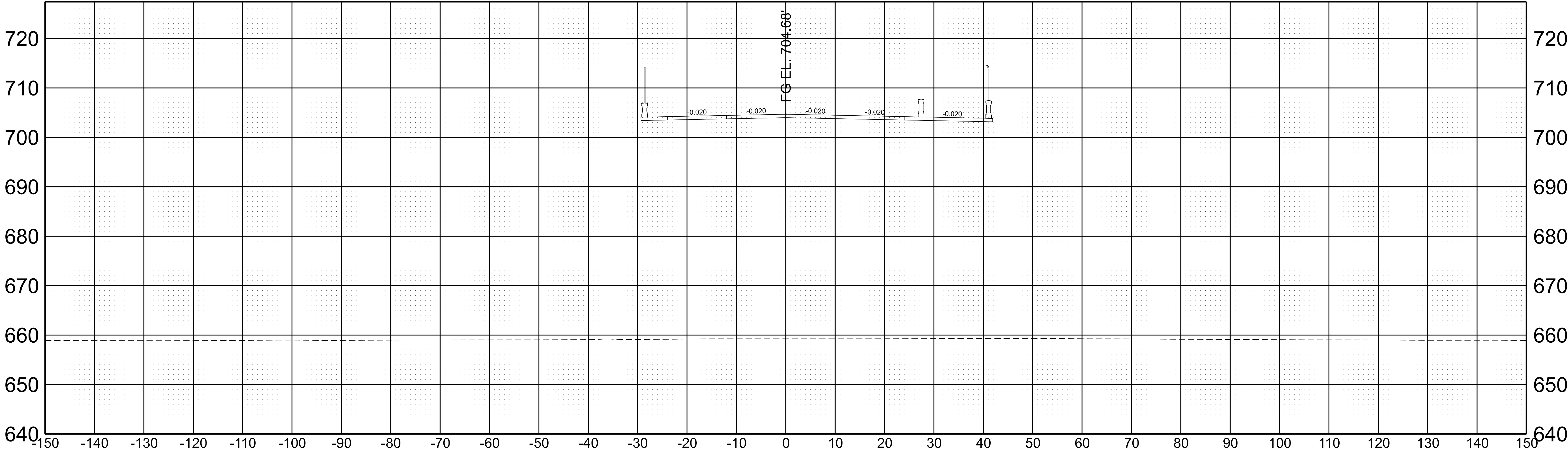
WILCOX_BLV



SCALE:	1"=10' HORIZ.	BEGIN STA. 514+00.00
	1"=10' VERT.	END STA. 514+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	38

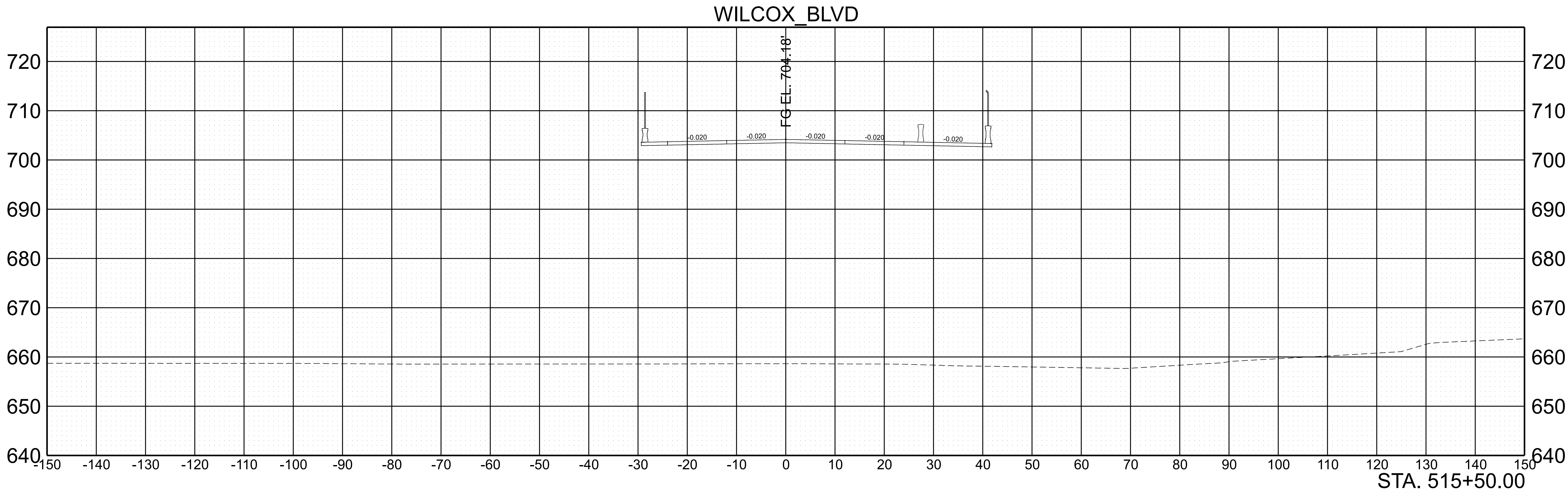
WILCOX_BLV



STA. 515+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 515+00.00
	1"=10' VERT.	END STA. 515+00.00

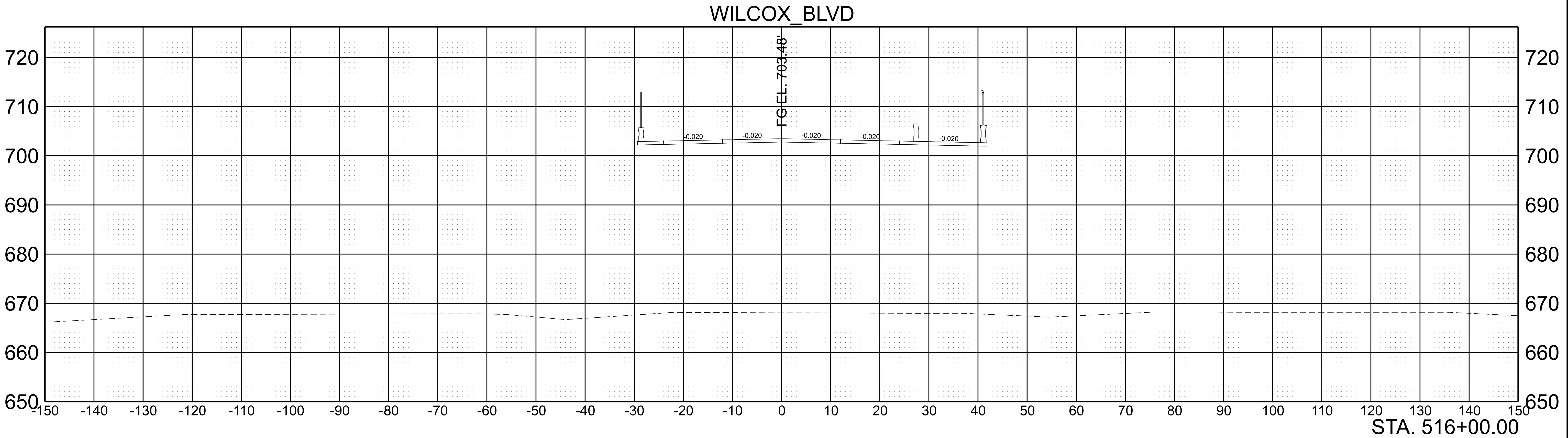
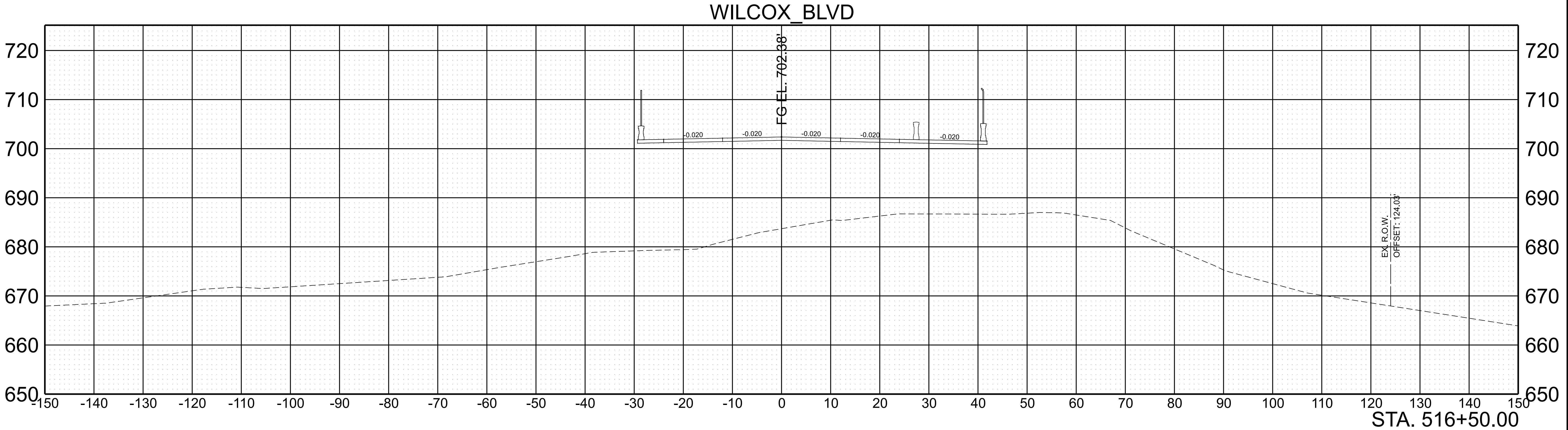
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	39



SCALE: 1"=10' HORIZ.
1"=10' VERT.

BEGIN STA. 515+50.00
END STA. 515+50.00

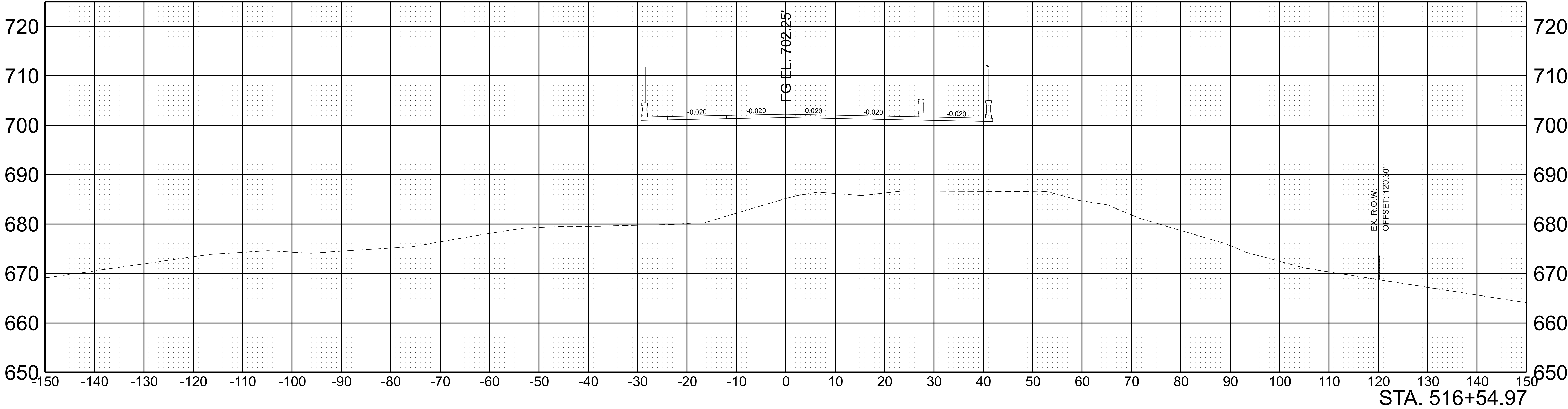
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	40



SCALE: 1"=10' HORIZ.	BEGIN STA. 516+00.00
1"=10' VERT.	END STA. 516+50.00

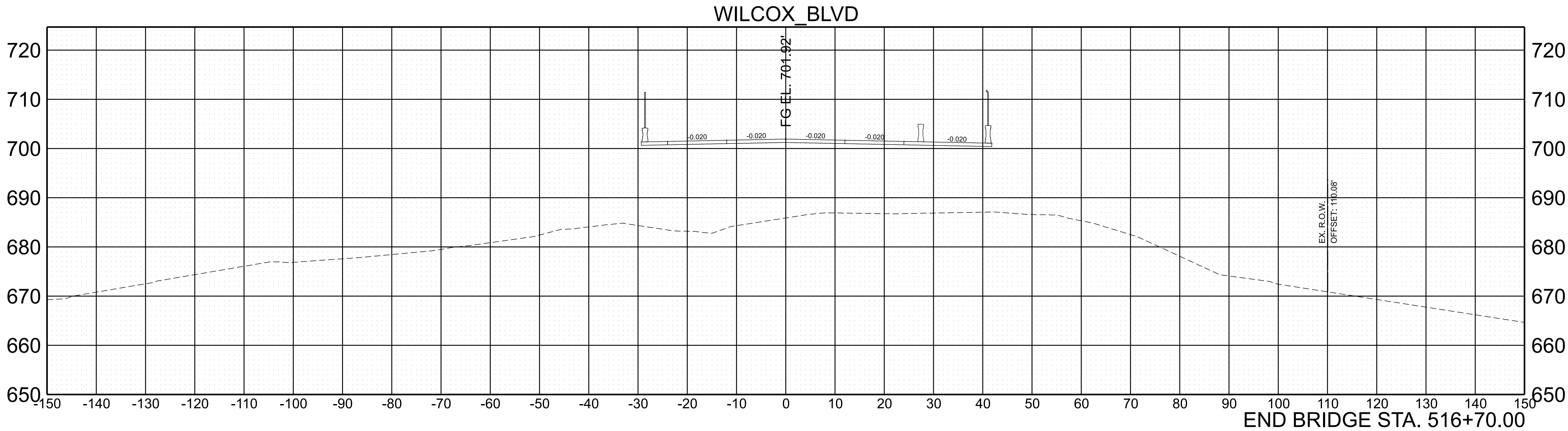
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	41

WILCOX_BLV



SCALE: 1"=10' HORIZ.	BEGIN STA. 516+54.97
1"=10' VERT.	END STA. 516+54.97

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	42

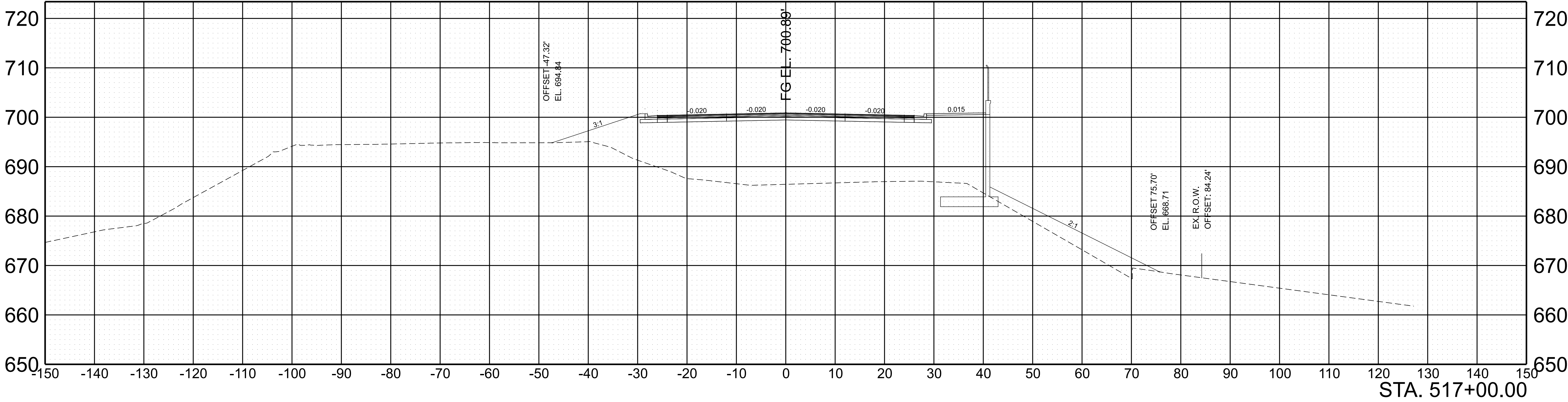


SCALE: 1"=10' HORIZ.
1"=10' VERT.

BEGIN STA. 516+70.00
END STA. 516+70.00

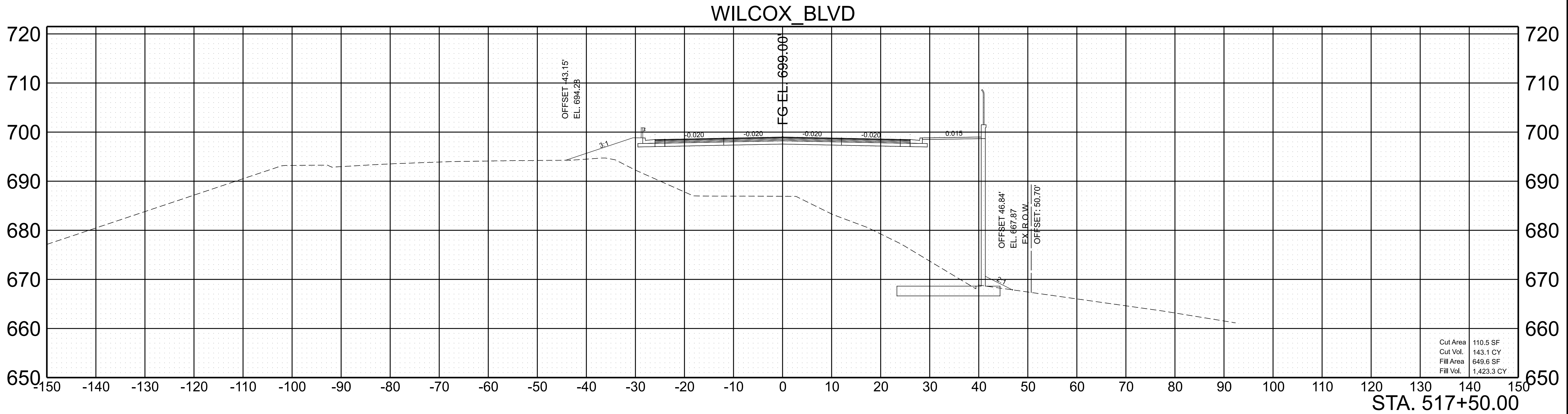
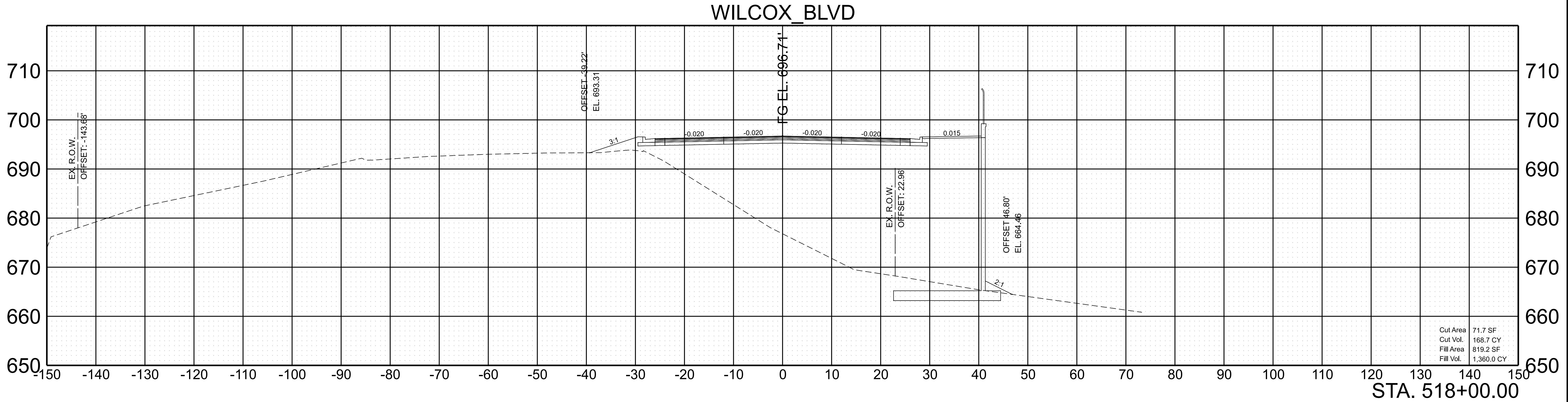
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	43

WILCOX_BLV



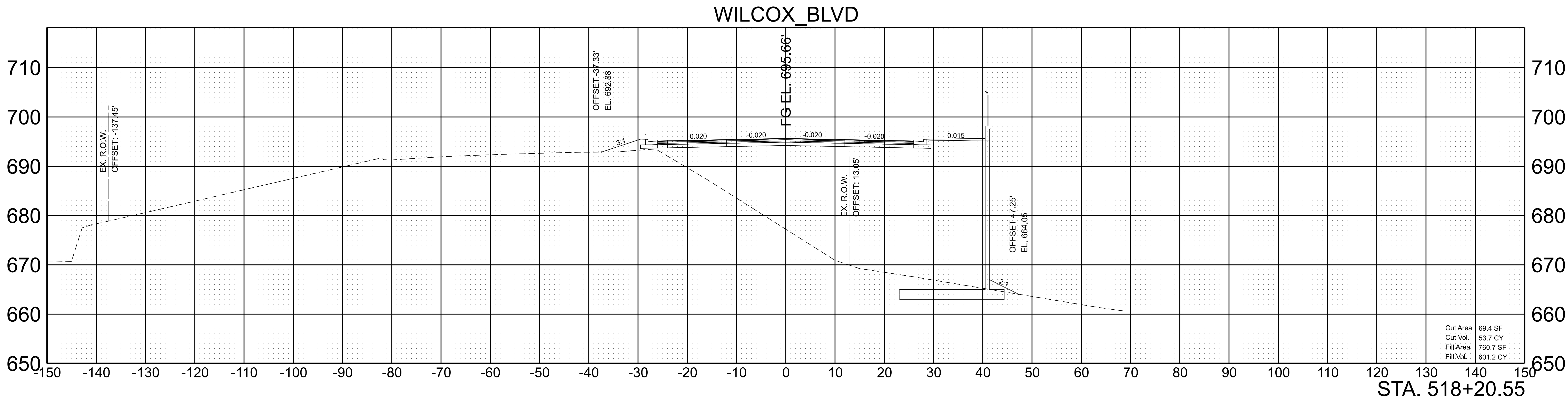
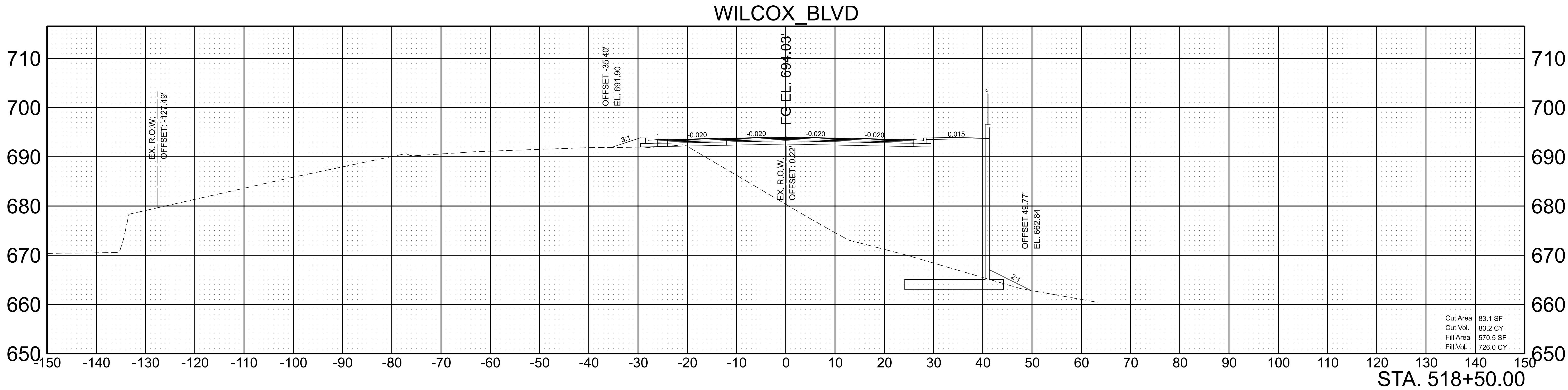
SCALE: 1"=10' HORIZ.	BEGIN STA. 517+00.00
1"=10' VERT.	END STA. 517+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	44



SCALE: 1"=10' HORIZ.	BEGIN STA. 517+50.00
1"=10' VERT.	END STA. 518+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	45

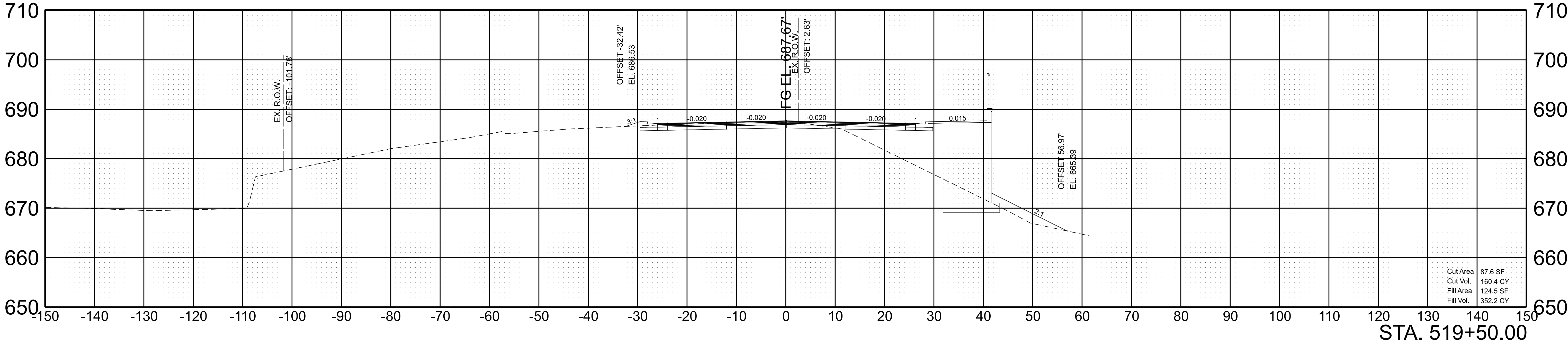


SCALE: 1"=10' HORIZ.
1"=10' VERT.

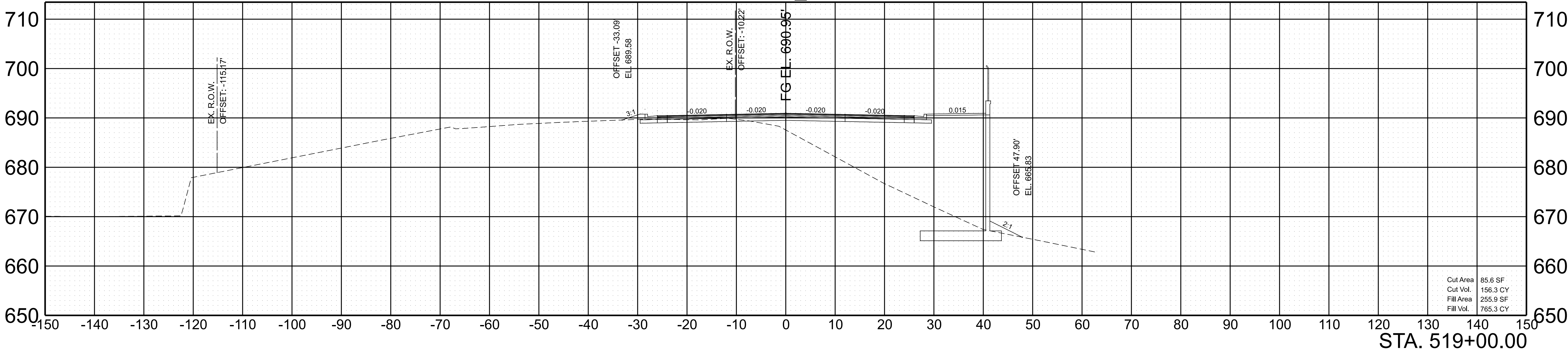
BEGIN STA. 518+20.55
END STA. 518+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	46

WILCOX_BLV

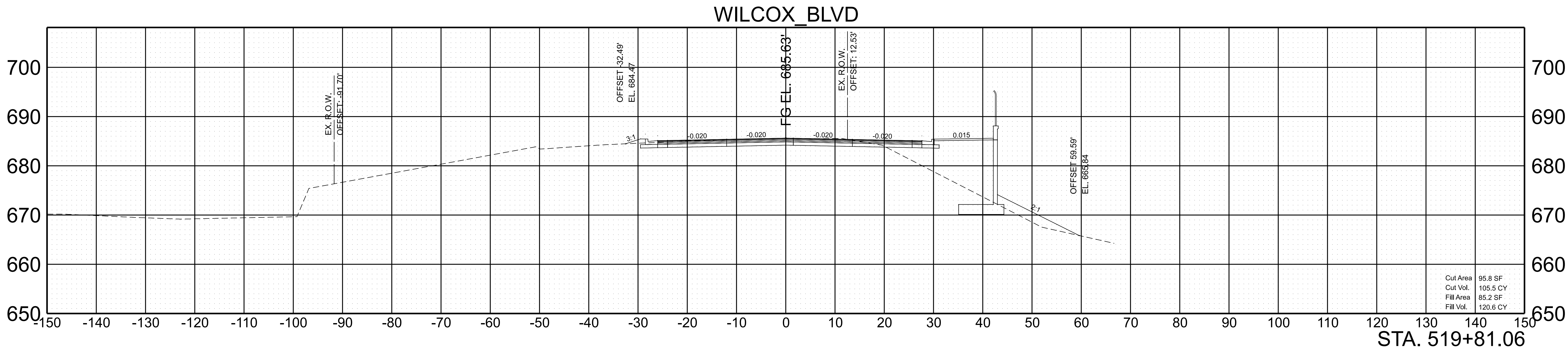
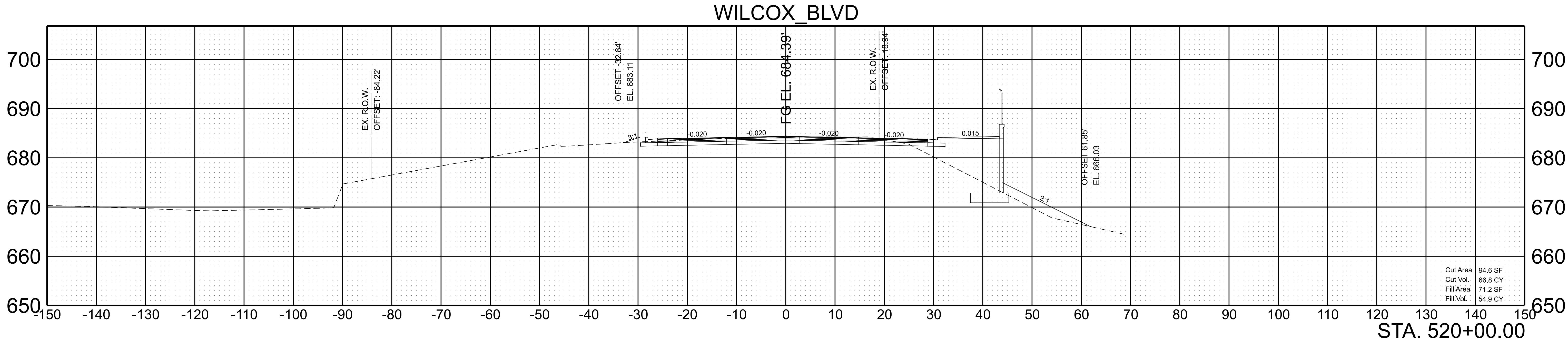


WILCOX_BLV



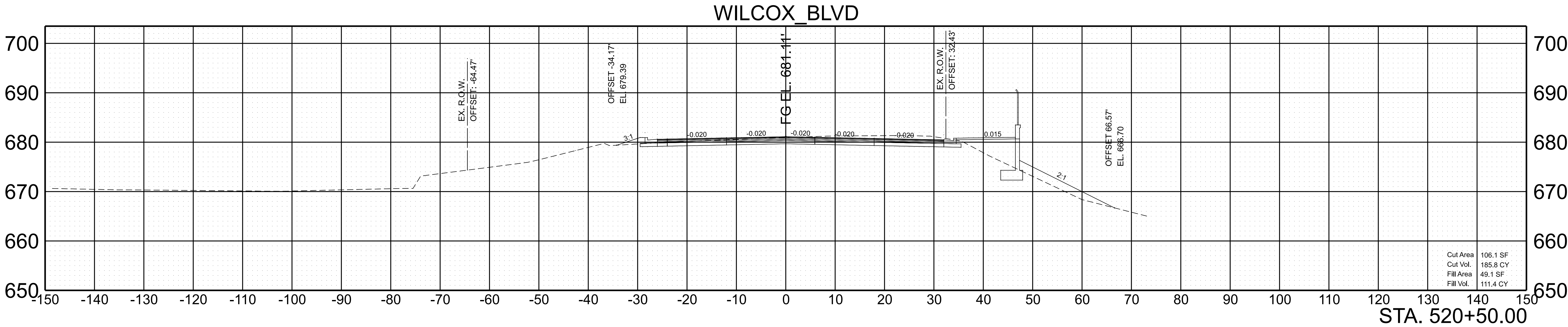
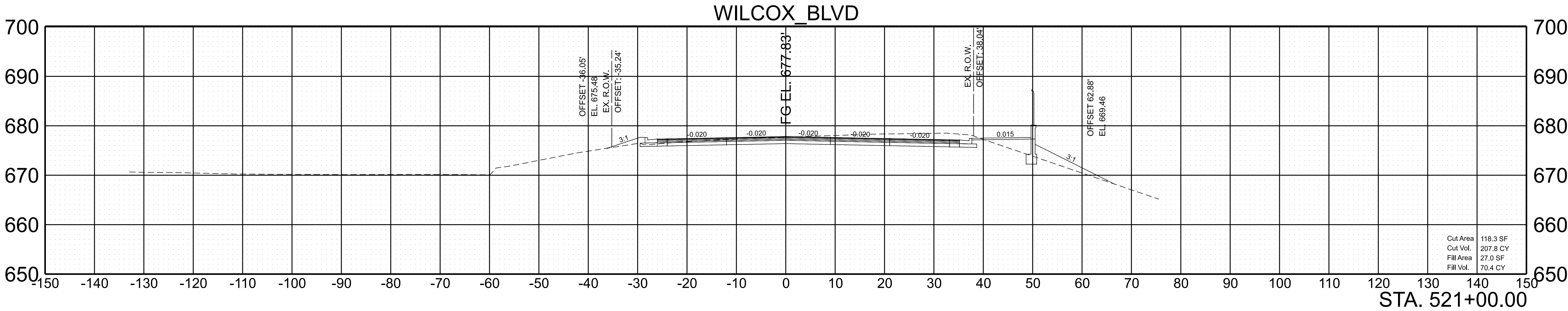
SCALE:	1"=10' HORIZ.	BEGIN STA. 519+00.00
	1"=10' VERT.	END STA. 519+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	47



SCALE: 1"=10' HORIZ.	BEGIN STA. 519+81.06
1"=10' VERT.	END STA. 520+00.00

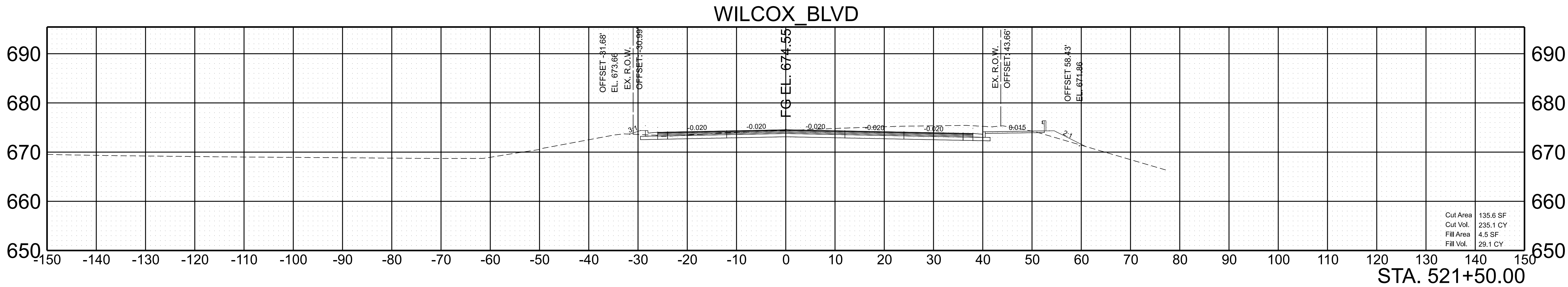
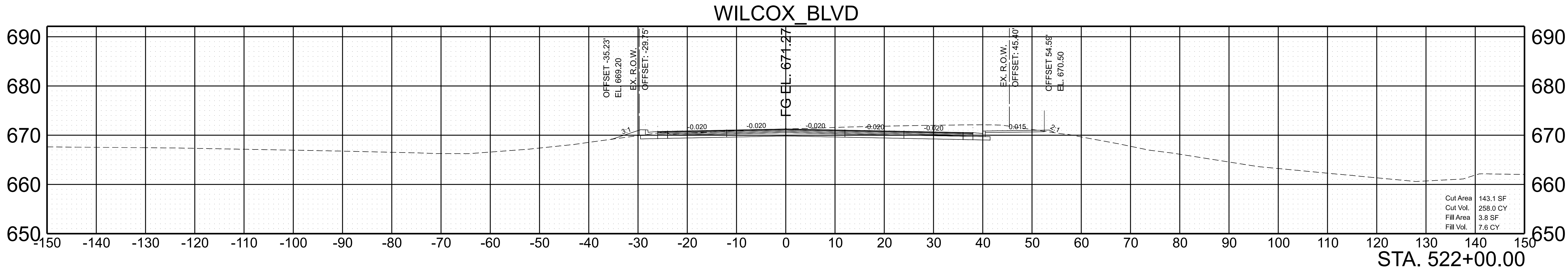
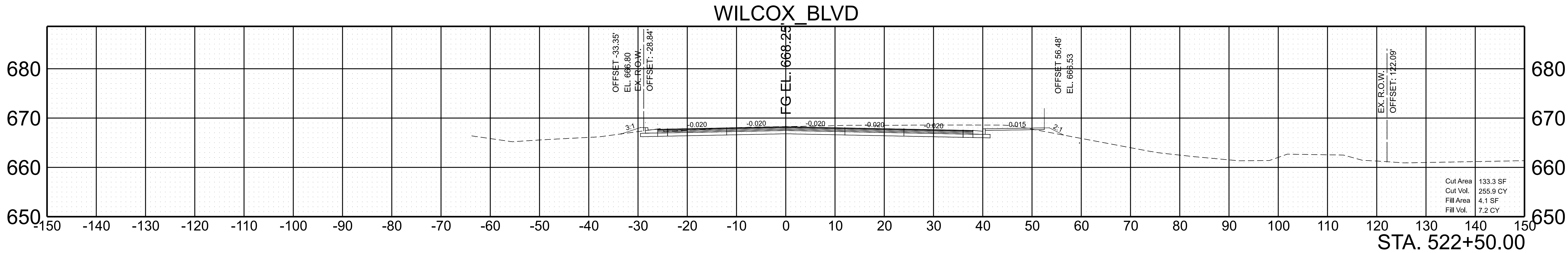
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	48



SCALE:	1"=10' HORIZ.	BEGIN STA. 520+50.00
	1"=10' VERT.	END STA. 521+00.00

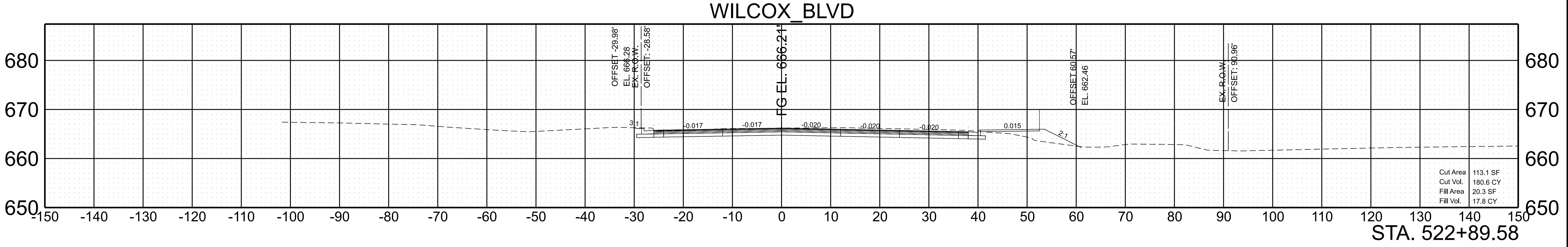
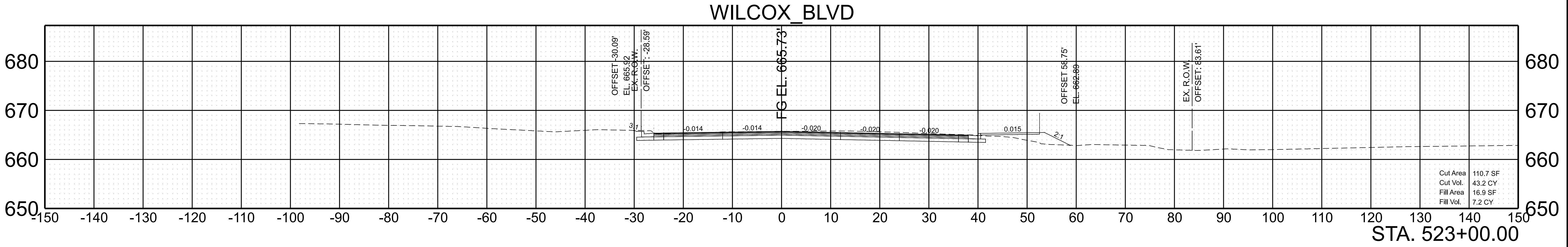
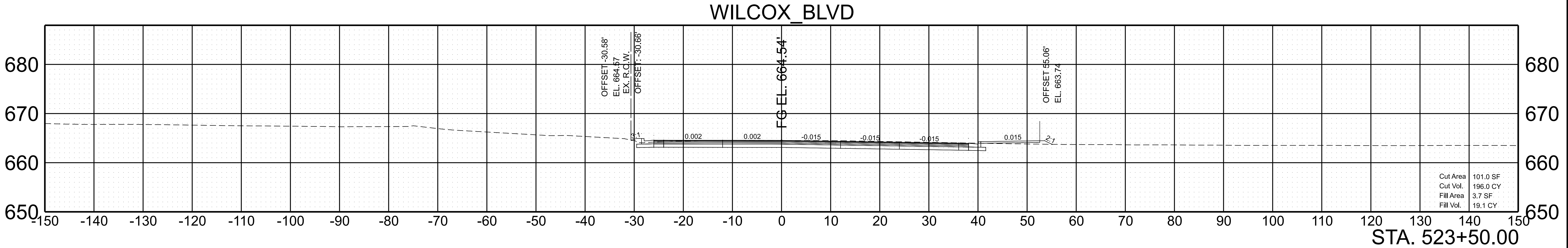
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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	49



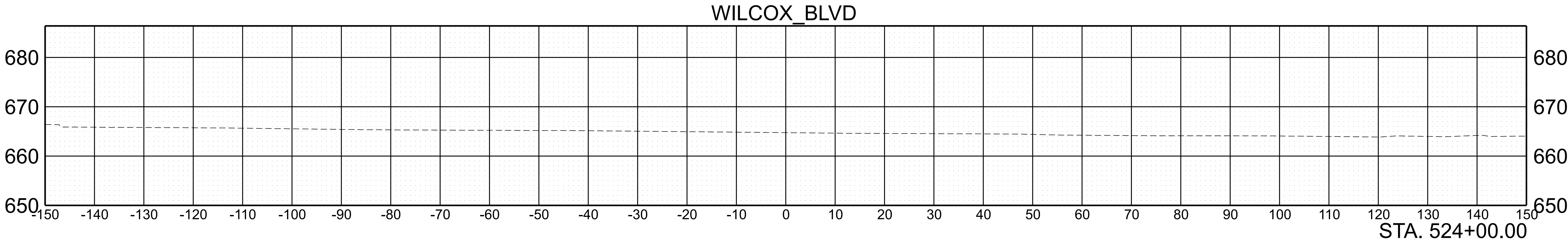
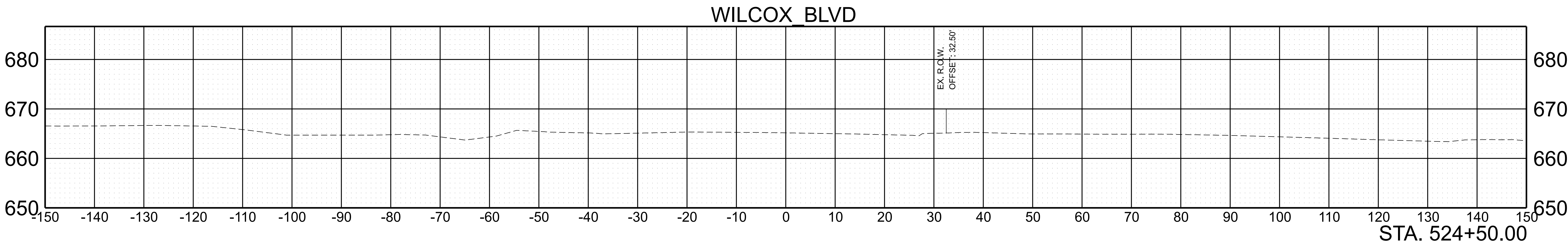
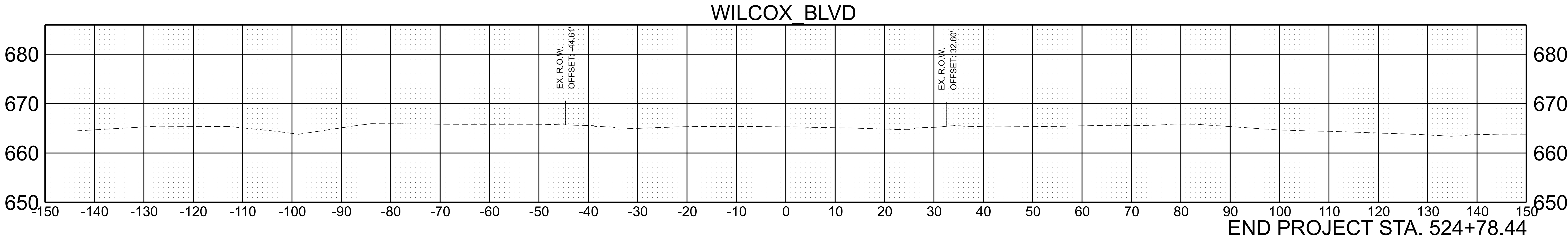
SCALE: 1"=10' HORIZ.	BEGIN STA. 521+50.00
1"=10' VERT.	END STA. 522+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	50



SCALE:	1"=10' HORIZ.	BEGIN STA. 522+89.58
	1"=10' VERT.	END STA. 523+50.00

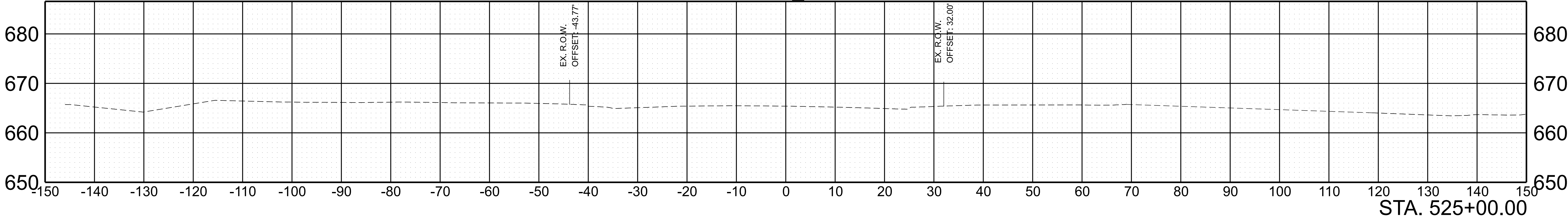
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	51



SCALE:	1"=10' HORIZ.	BEGIN STA. 524+00.00
	1"=10' VERT.	END STA. 524+78.44

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	52

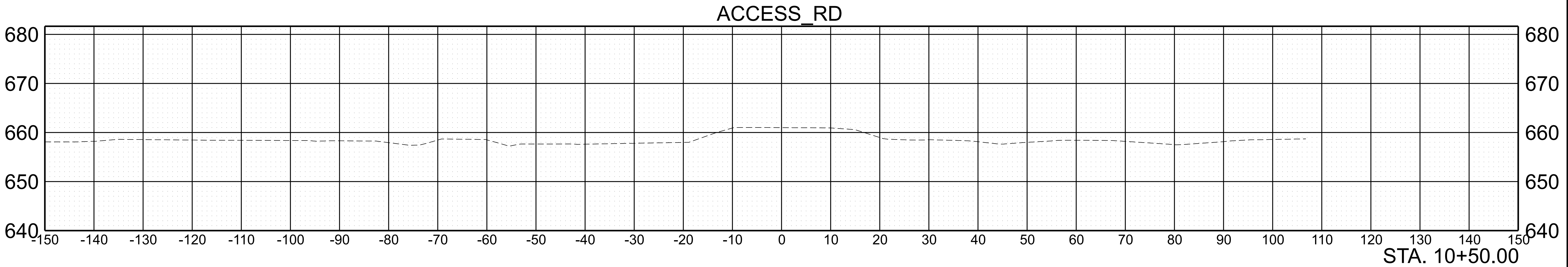
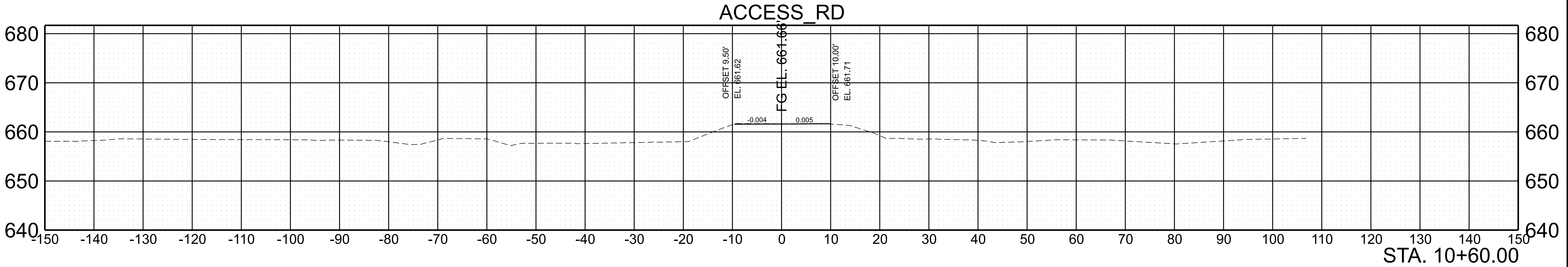
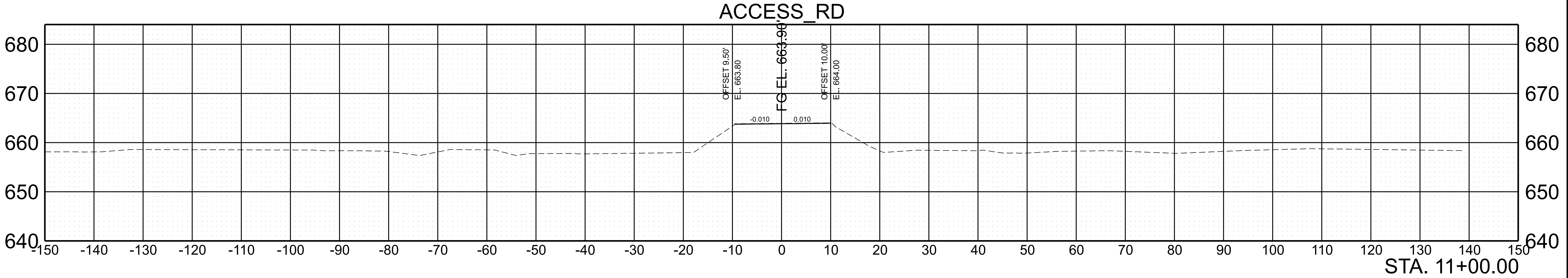
WILCOX BLVD



STA. 525+00.00

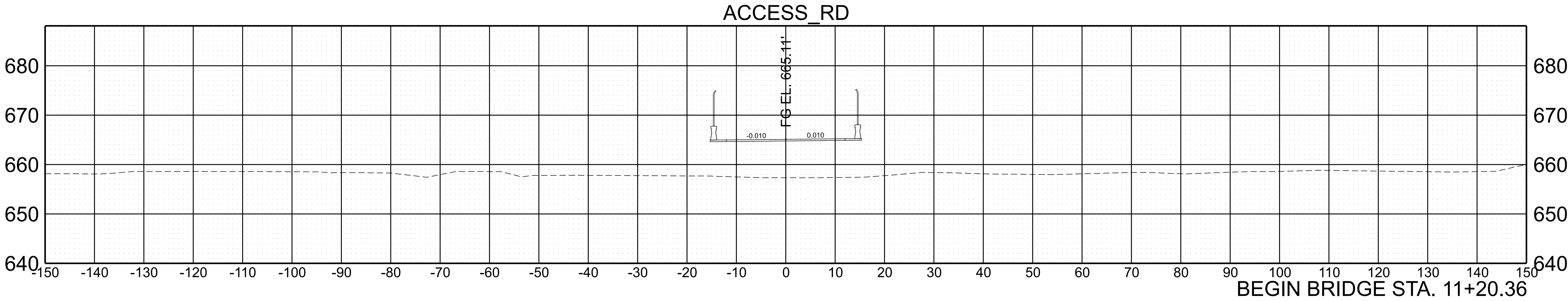
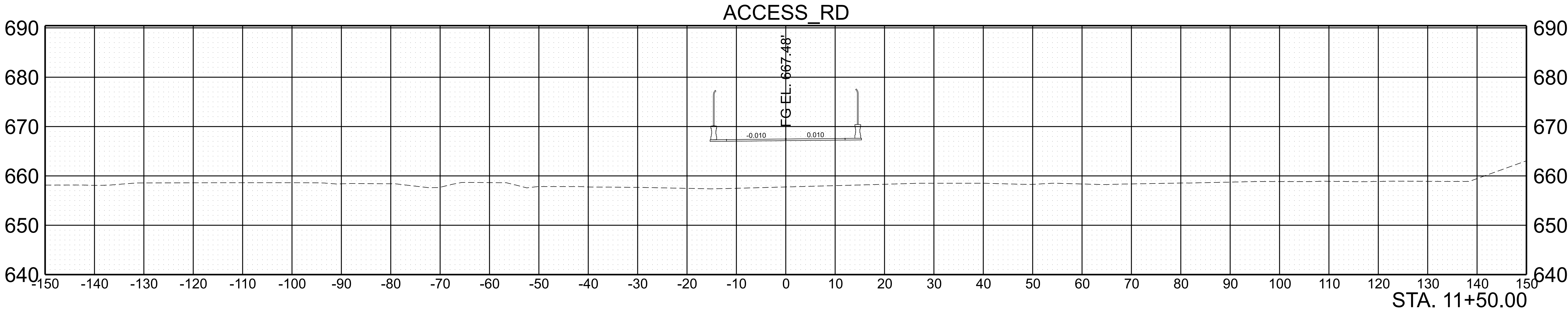
SCALE:	1"=10' HORIZ.	BEGIN STA. 525+00.00
	1"=10' VERT.	END STA. 525+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	53



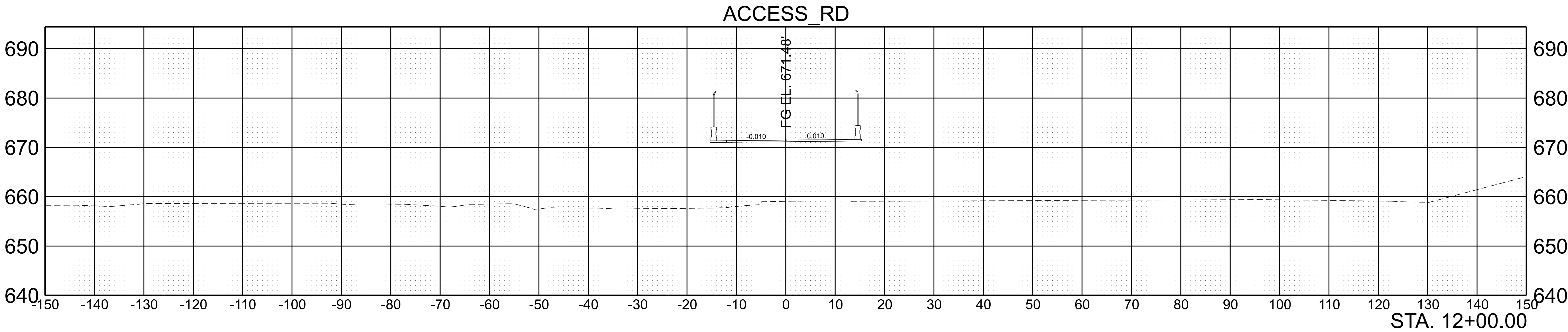
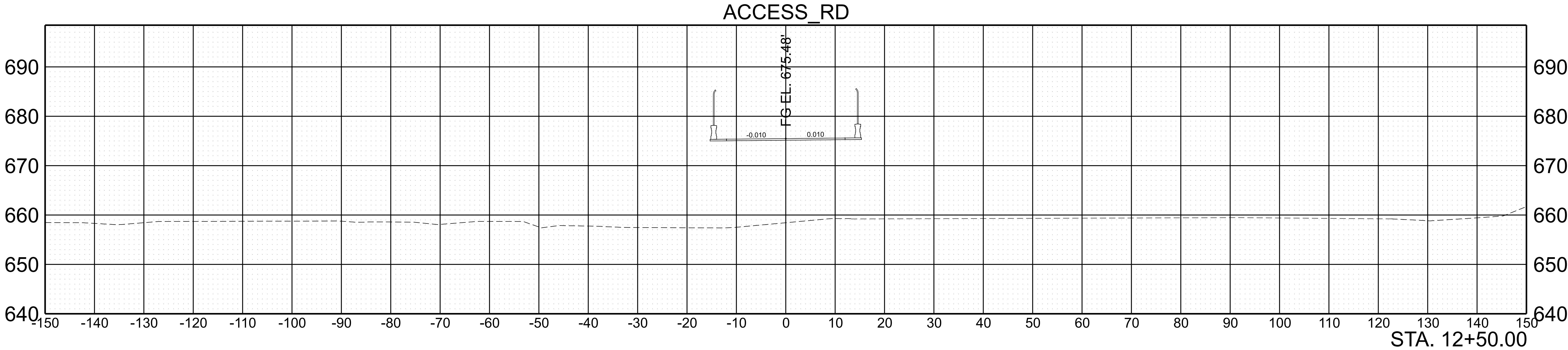
SCALE:	1"=10' HORIZ.	BEGIN STA. 10+50.00
	1"=10' VERT.	END STA. 11+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	54



SCALE:	1"=10' HORIZ.	BEGIN STA. 11+20.36
	1"=10' VERT.	END STA. 11+50.00

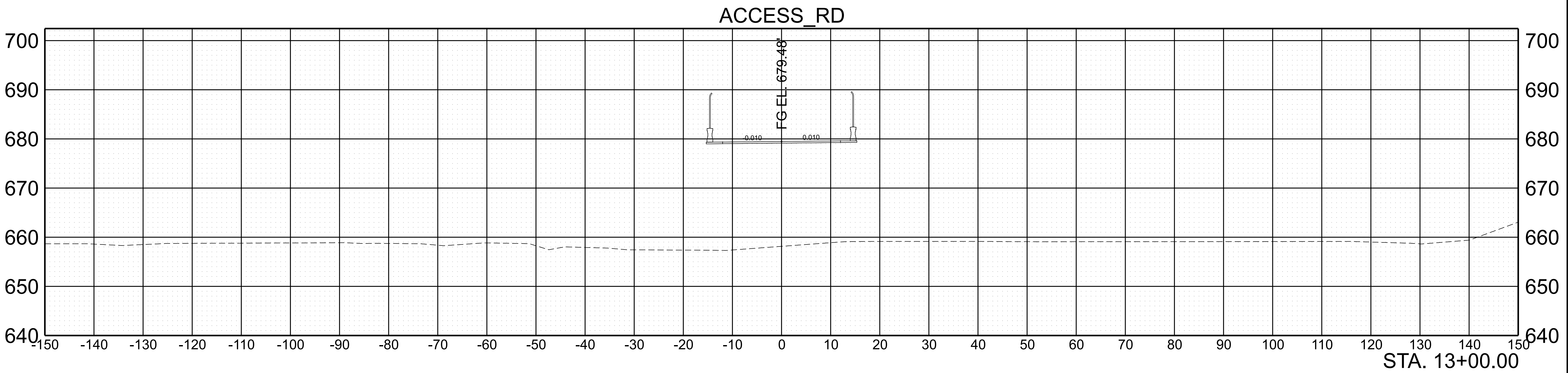
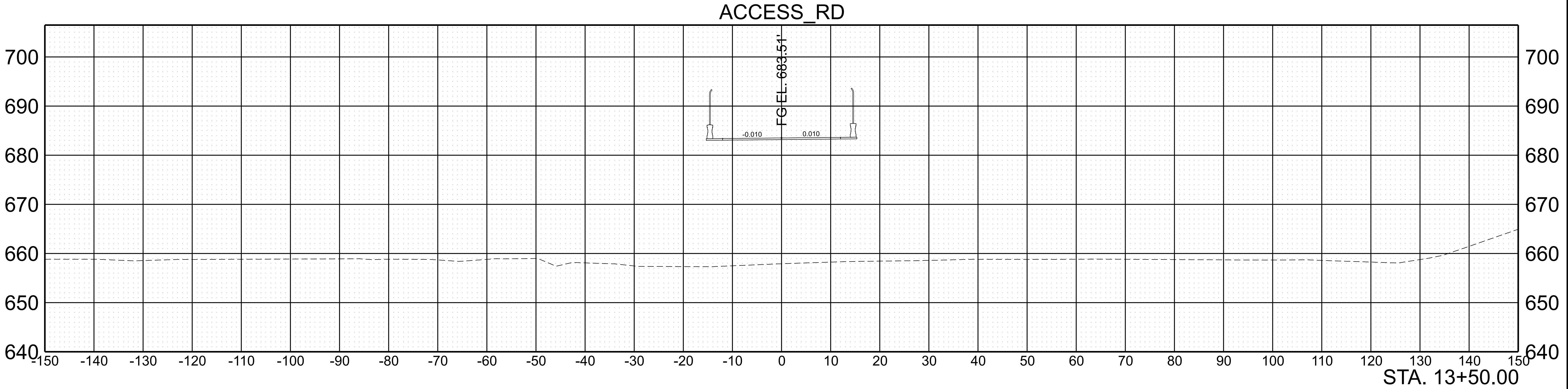
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	55



SCALE: 1"=10' HORIZ.
1"=10' VERT.

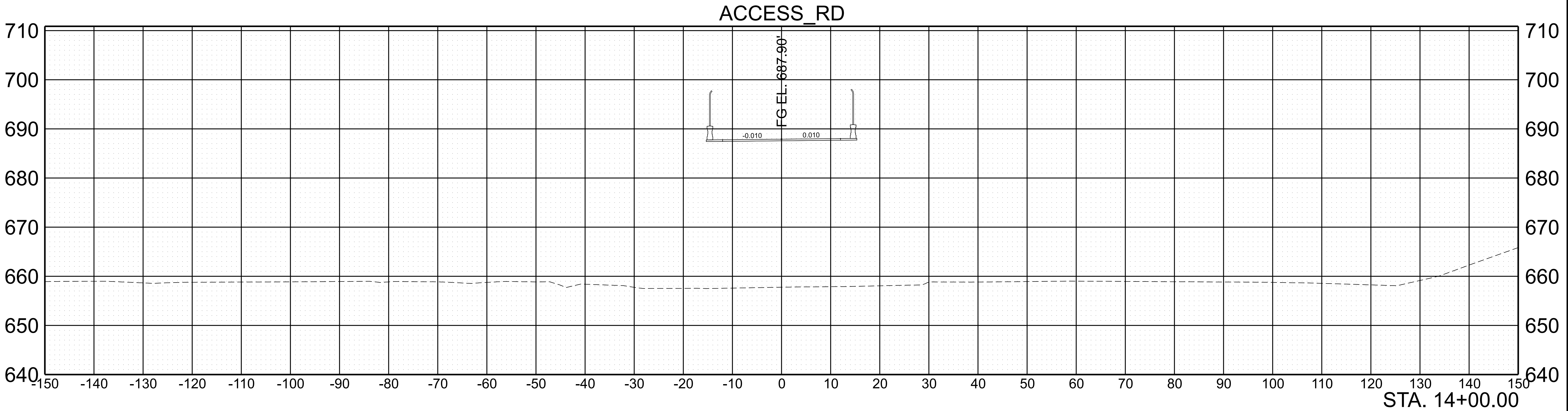
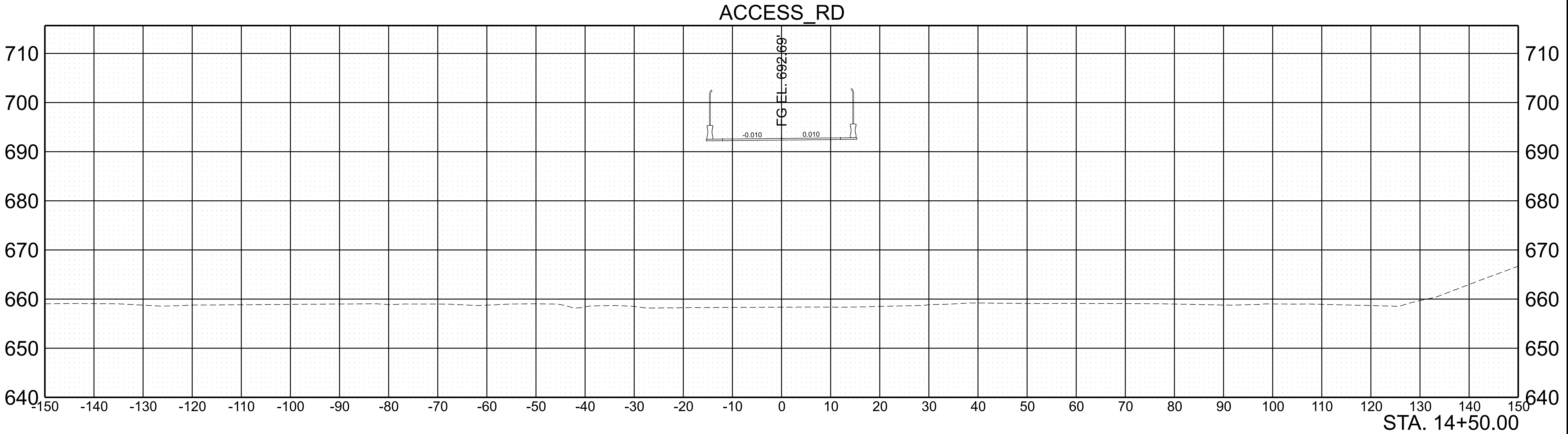
BEGIN STA. 12+00.00
END STA. 12+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	56



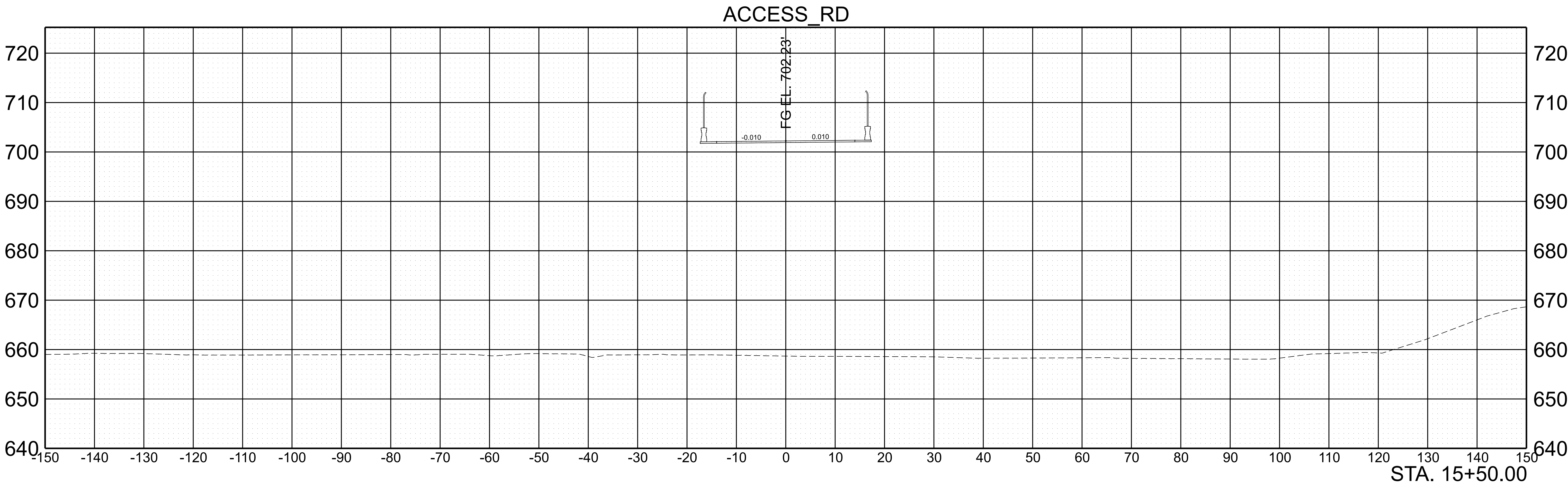
SCALE: 1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 13+00.00 END STA. 13+50.00
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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	57



SCALE: 1"=10' HORIZ.	BEGIN STA. 14+00.00
1"=10' VERT.	END STA. 14+50.00

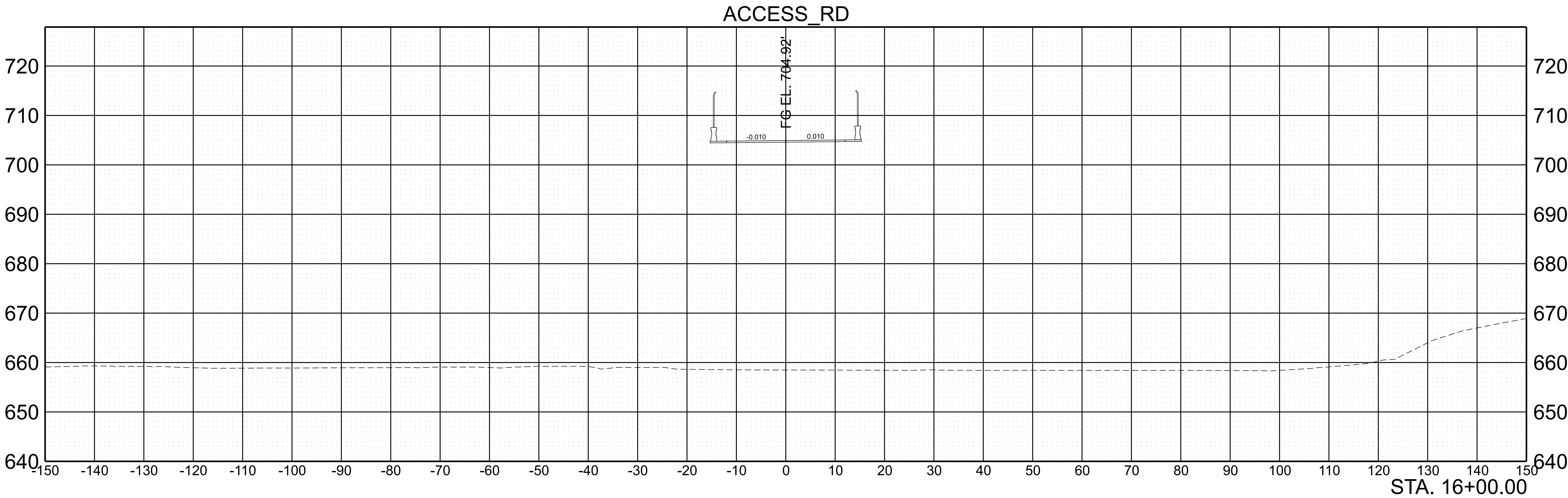
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	59



SCALE: 1"=10' HORIZ.
1"=10' VERT.

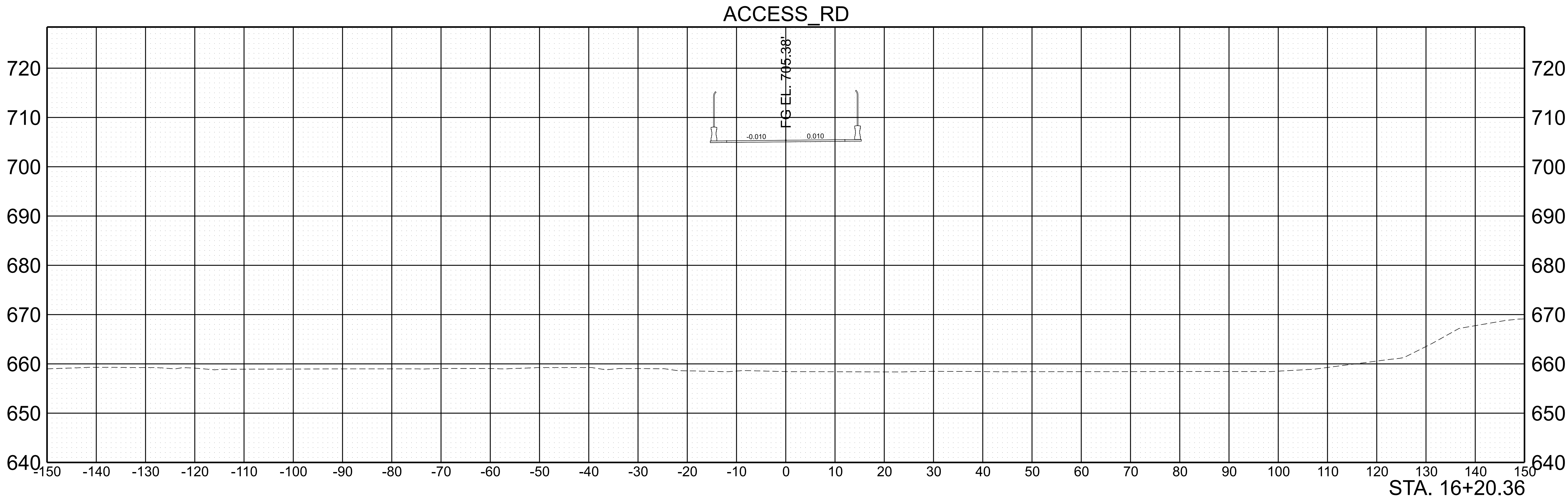
BEGIN STA. 15+50.00
END STA. 15+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	60



SCALE:	1"=10' HORIZ.	BEGIN STA. 16+00.00
	1"=10' VERT.	END STA. 16+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2024	BR-NH/STP-M/RAISE-3556(9)	61



SCALE: 1"=10' HORIZ.
1"=10' VERT.

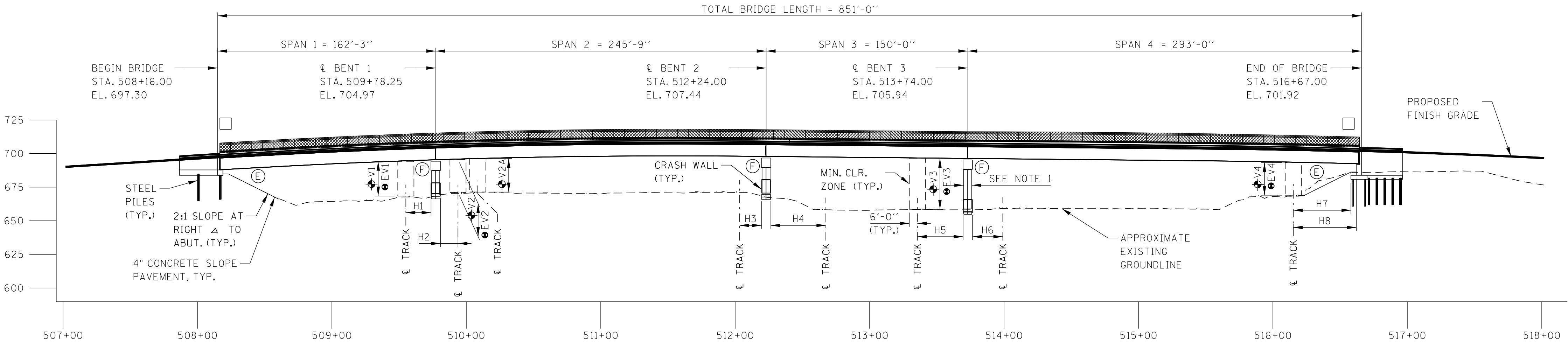
BEGIN STA. 16+20.36
END STA. 16+20.36

CONST. NO.: 33LCIT-F1-010

PROJECT NO.		YEAR	SHEET NO.
BR-NH/STP-M/RAISE-3556(9)		2024	B1
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION

NOTES:

- FOR PRELIMINARY LAYOUT, ASSUMED BENT DIMENSIONS ARE AS FOLLOWS:
COLUMN DIAMETER = 6'-0"
CRASHWALL WIDTH = 7'-0"
CAP WIDTH = 7'-0"
- HORIZONTAL CLEARANCES ARE MEASURED FROM CENTERLINE OF TRACK TO NEAREST FACE OF CAP/CRASHWALL.
- ALL BRIDGE ELEMENT TYPES AND DIMENSIONS ARE BASED ON PRELIMINARY ASSUMPTIONS AND ARE SUBJECT TO CHANGE IN FINAL DESIGN.
- ONLY TRACKS THAT WERE CAPTURED BY SURVEY ARE SHOWN. "OBSCURED BY TRAIN CARS" INDICATES ZONES WHERE TRACKS EXIST BUT COULD NOT BE CAPTURED BY SURVEY.
- SEE UTILITY ROLL PLOT FOR UTILITY LOCATIONS.
- SEE ROADWAY ROLL PLOT FOR ROW AND EASEMENT LOCATIONS.



ELEVATION
(SCALE: 1"=50')

CURVE 2
PI 507+45.48
N 264368.4645
E 2185810.2866
Δ 16°00'10" LT.
D 07°20'44"
R 780.00'
L 217.86'
T 109.64'
LC 217.15'
BC S50°30'37.3"E
SE N.C.
DESIGN SPEED 40 MPH

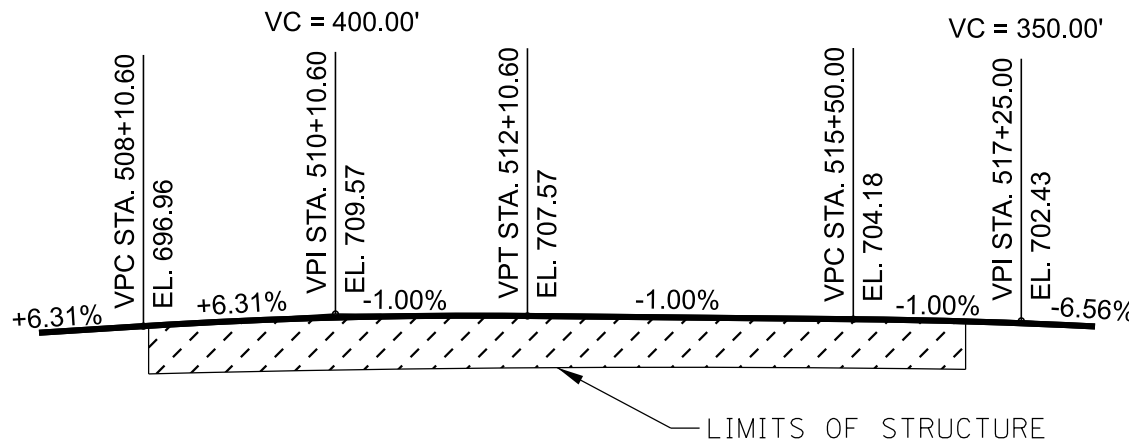
⊙ DENOTES: POINT OF MIN. VERT. CLEARANCE. SEE PLAN VIEW FOR LOCATION.
V1: ACTUAL MINIMUM VERTICAL CLEARANCE = 24'-11½"
V2: ACTUAL MINIMUM VERTICAL CLEARANCE = 23'-7½"
V2A: ACTUAL MINIMUM VERTICAL CLEARANCE = 23'-10½"
V3: ACTUAL MINIMUM VERTICAL CLEARANCE = 37'-1¼"
V4: ACTUAL MINIMUM VERTICAL CLEARANCE = 23'-6¾"

⊙ DENOTES: POINT OF EXISTING MIN. VERT. CLEARANCE. SEE PLAN VIEW FOR LOCATION.
EV1: ACTUAL MINIMUM VERTICAL CLEARANCE = 22'-4¾"
EV2: ACTUAL MINIMUM VERTICAL CLEARANCE = 21'-7"
EV3: ACTUAL MINIMUM VERTICAL CLEARANCE = 34'-3½"
EV4: ACTUAL MINIMUM VERTICAL CLEARANCE = 22'-2"

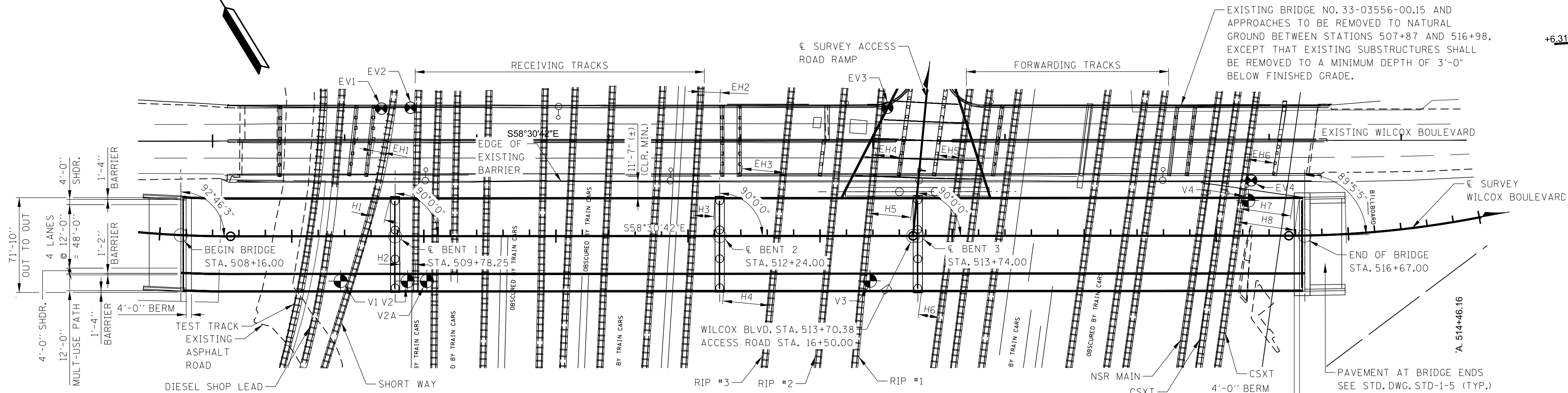
Ⓢ DENOTES: FIXED
Ⓢ DENOTES: EXPANSION

H1 DENOTES: POINT OF MIN. HORIZ. CLEARANCE = 11'-4½"
H2 DENOTES: POINT OF MIN. HORIZ. CLEARANCE = 11'-10"
H3 DENOTES: POINT OF MIN. HORIZ. CLEARANCE = 15'-4¼"
H4 DENOTES: POINT OF MIN. HORIZ. CLEARANCE = 35'-7"
H5 DENOTES: POINT OF MIN. HORIZ. CLEARANCE = 31'-8"
H6 DENOTES: POINT OF MIN. HORIZ. CLEARANCE = 15'-10½"
H7 DENOTES: POINT OF MIN. HORIZ. CLEARANCE = 38'-9"
H8 DENOTES: POINT OF MIN. HORIZ. CLEARANCE = 43'-2¼"

CURVE 3
PI 518+20.55
N 263806.1849
E 2186728.2668
Δ 24°31'10" LT.
D 07°31'09"
R 762.00'
L 326.09'
T 165.58'
LC 323.61'
BC S70°46'17.3"
SE N.C.
DESIGN SPEED 40 MPH



GRADE SKETCH-WILCOX BLVD



PLAN

SEE NOTE 4
(SCALE: 1"=50')

⊙ DENOTES: POINT OF MIN. VERT. CLEARANCE IN EACH SPAN.
V1: STA. = 509+36.91 OFFSET = 39.25' RT
V2: STA. = 509+87.67 OFFSET = 39.25' RT
V2A: STA. = 510+02.27 OFFSET = 39.25' RT
V3: STA. = 513+37.73 OFFSET = 39.25' RT
V4: STA. = 516+15.60 OFFSET = 39.25' RT

⊙ DENOTES: POINT OF EXISTING MIN. VERT. CLEARANCE.

H1 DENOTES: POINT OF MIN. HORIZ. CLEARANCE = 11'-4½"
H2 DENOTES: POINT OF MIN. HORIZ. CLEARANCE = 11'-10"
H3 DENOTES: POINT OF MIN. HORIZ. CLEARANCE = 15'-4¼"
H4 DENOTES: POINT OF MIN. HORIZ. CLEARANCE = 35'-7"
H5 DENOTES: POINT OF MIN. HORIZ. CLEARANCE = 31'-8"
H6 DENOTES: POINT OF MIN. HORIZ. CLEARANCE = 15'-10½"
H7 DENOTES: POINT OF MIN. HORIZ. CLEARANCE = 38'-9"
H8 DENOTES: POINT OF MIN. HORIZ. CLEARANCE = 43'-2¼"

EH1 DENOTES: POINT OF EXISTING MIN. HORIZ. CLEARANCE = 8'-4½"
EH2 DENOTES: POINT OF EXISTING MIN. HORIZ. CLEARANCE = 14'-10"
EH3 DENOTES: POINT OF EXISTING MIN. HORIZ. CLEARANCE = 31'-4¾"
EH4 DENOTES: POINT OF EXISTING MIN. HORIZ. CLEARANCE = 18'-2¼"
EH5 DENOTES: POINT OF EXISTING MIN. HORIZ. CLEARANCE = 17'-6½"
EH6 DENOTES: POINT OF EXISTING MIN. HORIZ. CLEARANCE = 20'-5¾"

PIN NO.:
DESIGN BY: DATE: / /
DRAWN BY: DATE: / /
SUPERVISED BY: DATE: / /
CHECKED BY: DATE: / /

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1
PRELIMINARY LAYOUT OF BRIDGE
WILCOX BOULEVARD
OVER DEBUTTS RAIL YARD
AND CSX TRANSPORTATION
BRIDGE ID NO. 33035560003
STATION 512+41.50
HAMILTON COUNTY
2024

GENERAL NOTES

- (1)

CONSTRUCTION SPECIFICATIONS; TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 1, 2021 EDITION.)
- (2)

DESIGN SPECIFICATIONS; 9TH EDITION (2020) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND THE 2ND EDITION (2011) AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN WITH INTERIMS.
- (3)

LOADING; HL-93 LIVE LOADING; SEISMIC CATEGORY "B" WITH AS = .209, SDS = .404, SDI = .160 (1000 YEAR RETURN PERIOD); DEAD LOADS TO INCLUDE 35 LB/SQ.FT. FOR FUTURE WEARING SURFACE.
- (4)

SUPERSTRUCTURE; TO CONSIST OF 4 SPANS OF CONTINUOUS STEEL PLATE GIRDERS WITH COMPOSITE CONCRETE SLAB.
- (5)

CONCRETE; CLASS A F'C = 3000 PSI, CLASS DS F'C =4000 PSI FOR BRIDGE DECK.
- (6)

REINFORCING STEEL; TO BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. EPOXY COAT ALL SLAB STEEL.
- (7)

BRIDGE DECK SURFACE FINISH; TO BE IN ACCORDANCE WITH METHOD 3 IN ARTICLE 604.22 OF THE STANDARD SPECIFICATIONS.
- (8)

USE STD-11-2 AND STD-11-3 BRIDGE RAILS.
- (9)

TEXTURE COATING; TO BE GRAY (36440) EXCEPT ENTIRE BRIDGE RAIL TO BE WHITE (37886).
- (10)

EXCAVATION; TO BE BASED ON EXISTING GROUND AT ABUTMENTS AND BENTS.
- (11)

REINFORCED CONCRETE SLOPE PAVING SHALL BE IN ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS AND SHALL BE MEASURED AND PAID FOR UNDER ITEM NO. 709-04, C.Y.
- (12)

FLUMES AT BRIDGE ENDS ARE NOT REQUIRED.
- (13)

BRIDGE DECK DRAINS ARE REQUIRED.
- (14)

EXISTING BRIDGE DESCRIPTION: TWO SIDE-BY-SIDE STRUCTURES, 17 SPANS TOTALING 820'-0", CONCRETE DECK GIRDER BRIDGE WITH STEEL PILE BENT SUBSTRUCTURES, FEDERAL BRIDGE I.D. NO. 33035360003 AND 33033360004.
- (15)

SEE PROJECT COMMITMENTS AND SPECIAL PROVISION 202ACM.

NORFOLK SOUTHERN RAILROAD NOTES

- (1)

THE CONTRACTOR SHALL COORDINATE WITH THE NORFOLK SOUTHERN SIGNAL'S AND COMMUNICATION DEPARTMENTS FOR THE PROTECTION AND/OR RELOCATION OF ANY EQUIPMENT IMPACTED BY THE DESIGN AND CONSTRUCTION OF THE PROPOSED BRIDGE STRUCTURE.
- (2)

MINIMUM CLEARANCE (U.N.O.)

A.

A MINIMUM TEMPORARY VERTICAL CLEARANCE OF 22'-0" ABOVE TOP OF HIGHEST RAIL SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

B.

A MINIMUM TEMPORARY HORIZONTAL CLEARANCE OF 13'-0" FROM CENTERLINE OF TANGENT TRACK OR 14'-0" FROM CENTERLINE OF CURVED TRACK SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION EXCEPT WHERE WRITTEN PERMISSON FOR REDUCED CLEARANCE IS PROVIDED BY NORFOLK SOUTHERN.

C.

ANY EXISTING SUBSTANDARD CLEARANCES SHALL NOT BE FURTHER REDUCED FOR THE TEMPORARY CONSTRUCTION CONDITION WITHOUT WRITTEN PERMISSION FROM NORFOLK SOUTHERN.

CONST. NO.: 33LCIT-F1-010

PROJECT NO.		YEAR	SHEET NO.
BR-NH/STP-M/RAISE-3556(9)		2024	B2
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
	- -		
	- -		
	- -		
	- -		
	- -		

SEALED BY

LINE & GRADE
PLANS

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 1
GENERAL NOTES
WILCOX BOULEVARD
OVER DEBUTTS RAIL YARD
AND CSX TRANSPORTATION
BRIDGE ID NO. 33035560003
STATION 512+41.50
HAMILTON COUNTY
2024

PIN NO.: _____

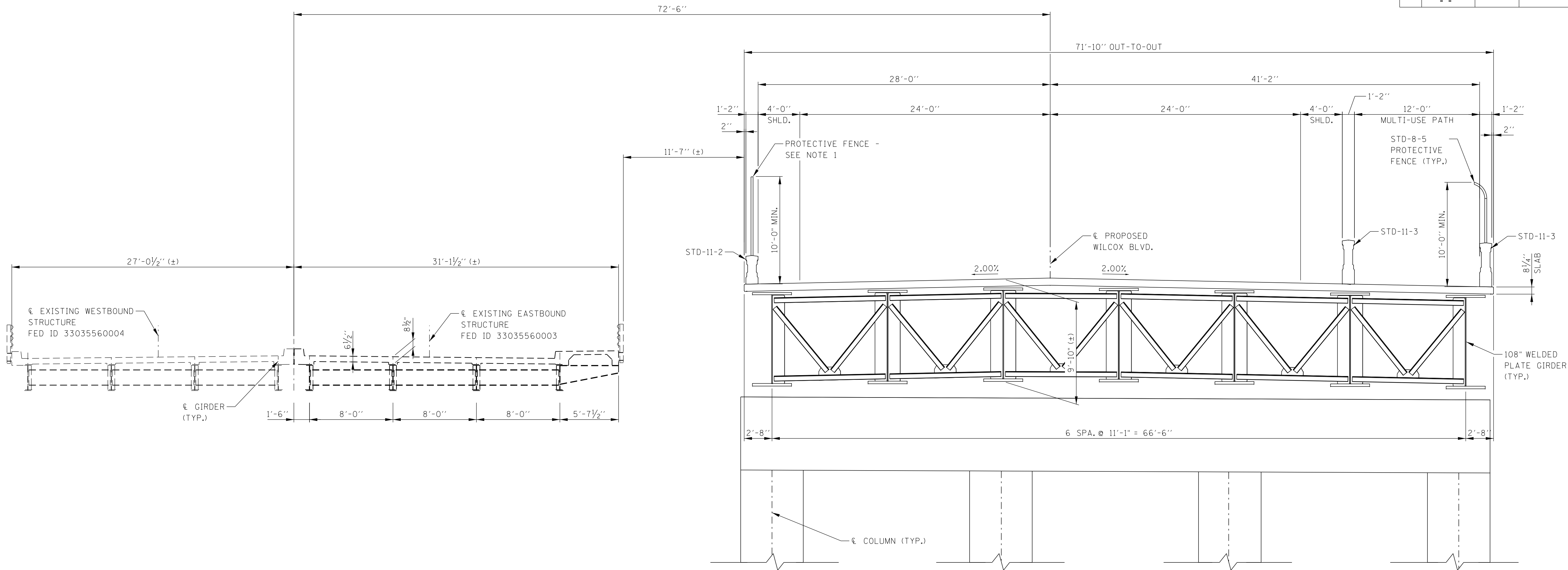
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DRAWN BY: _____ DATE: __/__/__

SUPERVISED BY: _____ DATE: __/__/__

CHECKED BY: _____ DATE: __/__/__

PIN NO.: _____
DESIGN BY: _____ DATE: __/__/____
DRAWN BY: _____ DATE: __/__/____
SUPERVISED BY: _____ DATE: __/__/____
CHECKED BY: _____ DATE: __/__/____



TYPICAL SECTION

(LOOKING FORWARD ON SURVEY)
(RISERS AND BEARINGS NOT SHOWN)

NOTES:

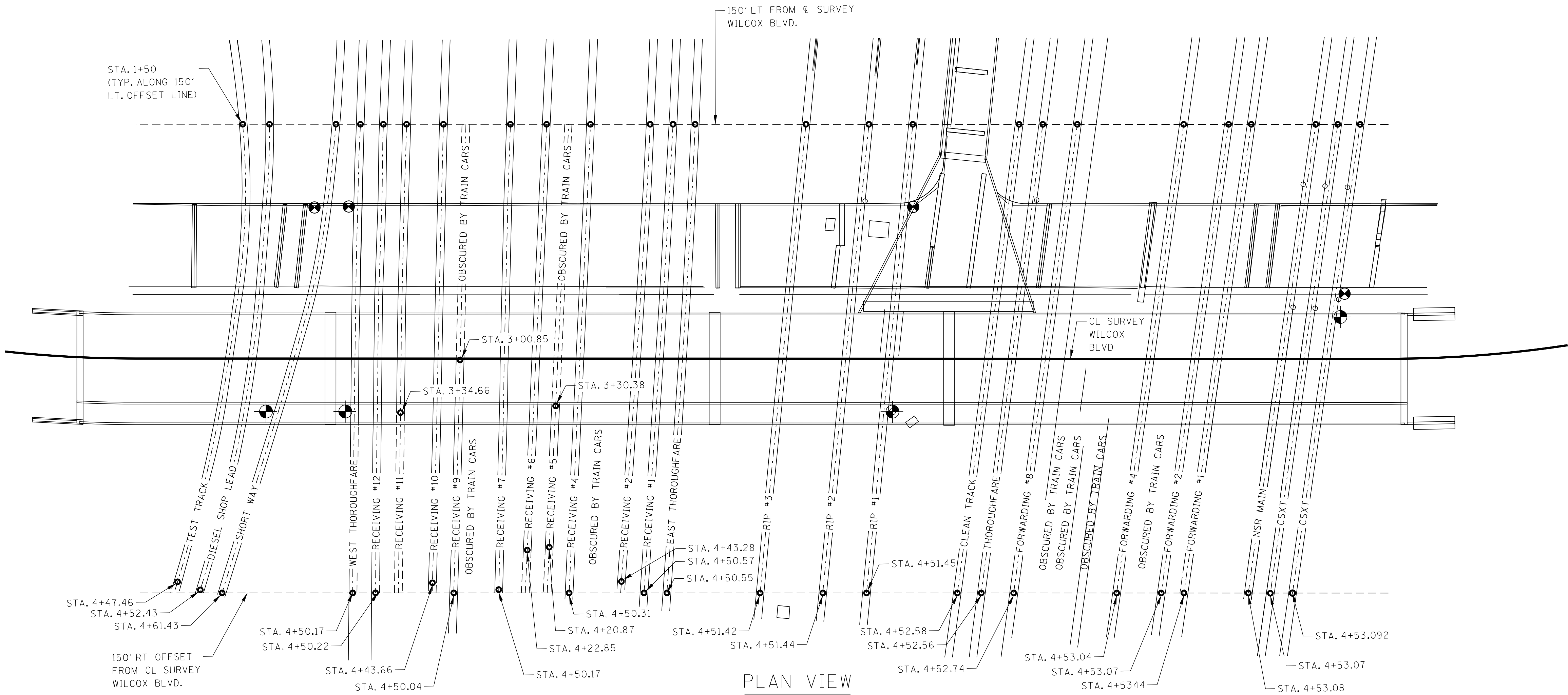
1. PROTECTIVE FENCING SHALL MEET OR EXCEED THE REQUIREMENTS OF NORFOLK SOUTHERN PUBLIC PROJECTS MANUAL (PPM) DRAWING NO. 3.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1
TYPICAL SECTION
WILCOX BOULEVARD
OVER DEBUTTS RAIL YARD
AND CSX TRANSPORTATION
BRIDGE ID NO. 33035560003
STATION 512+41.50
HAMILTON COUNTY
2024

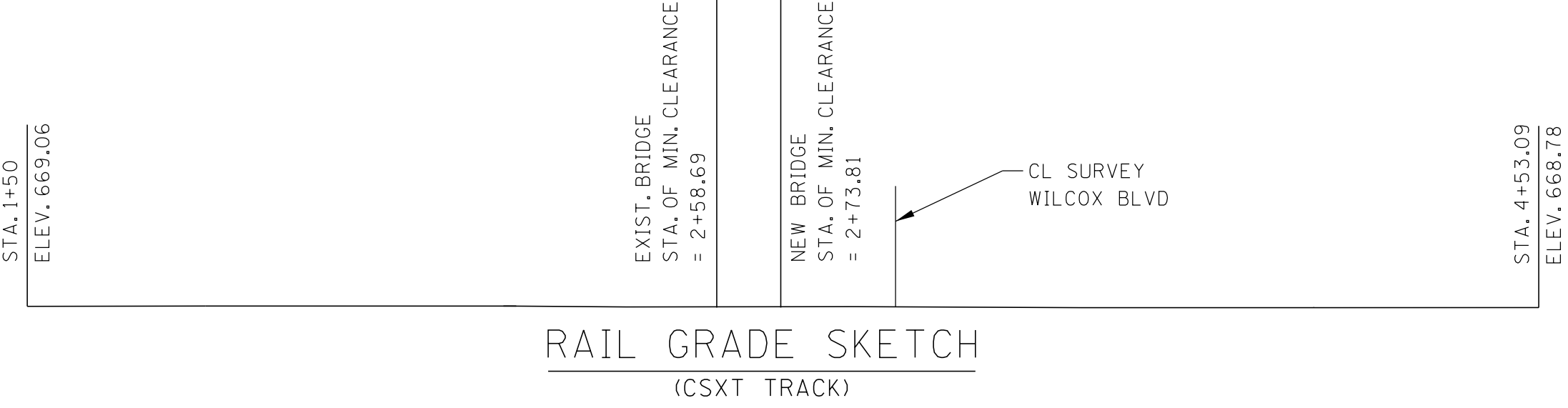
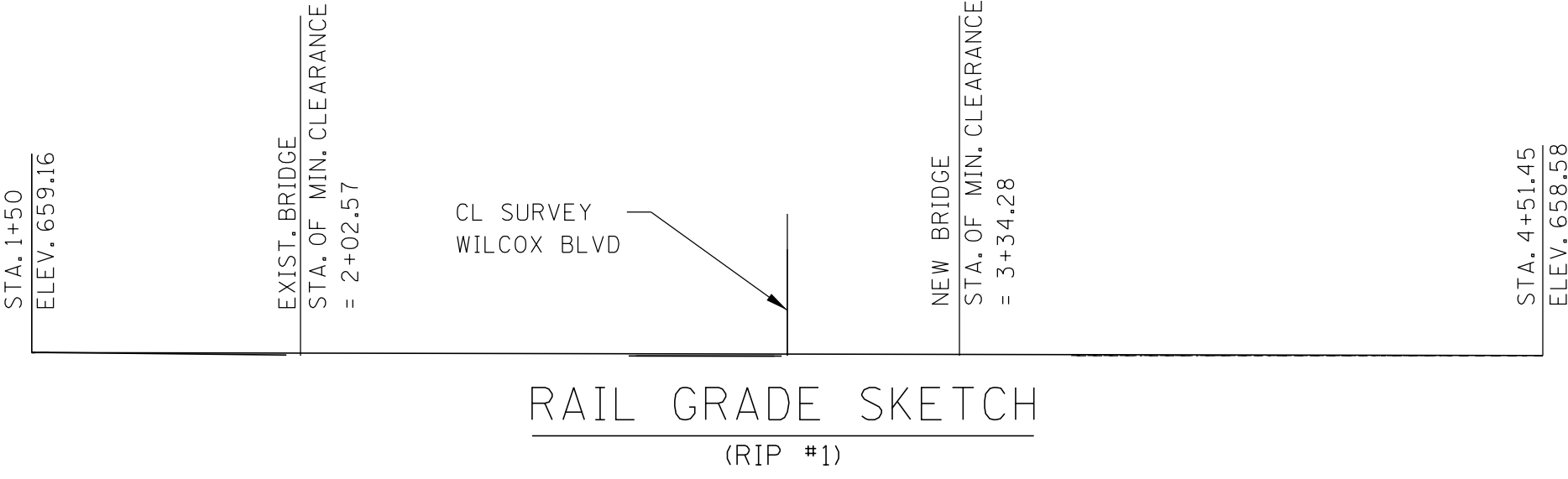
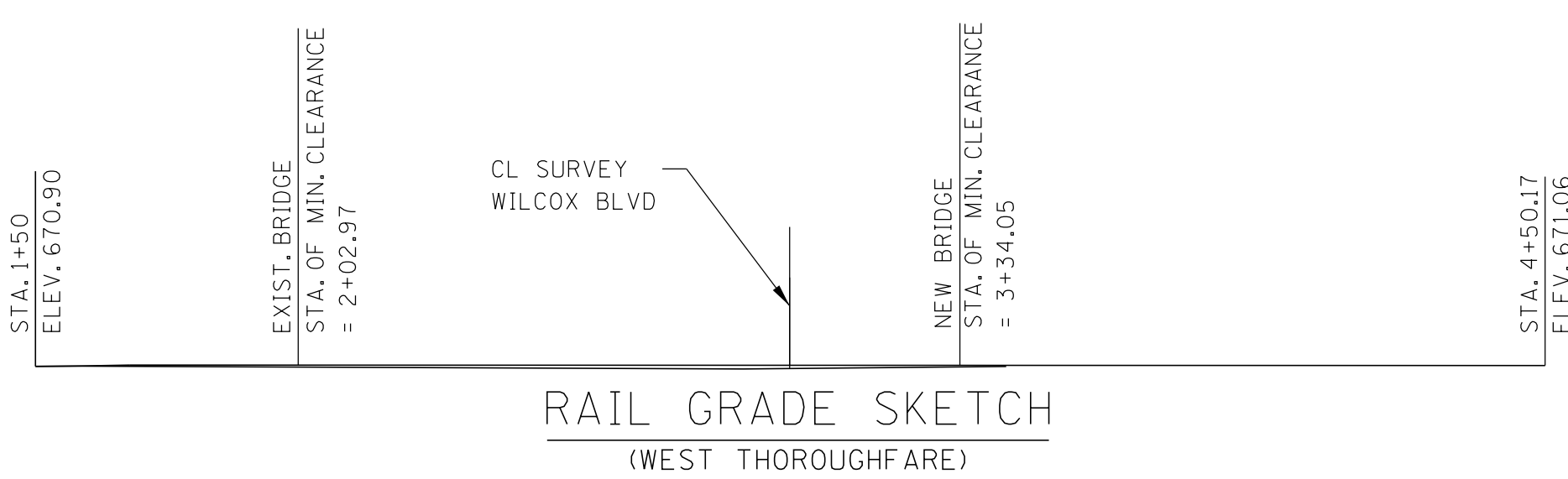
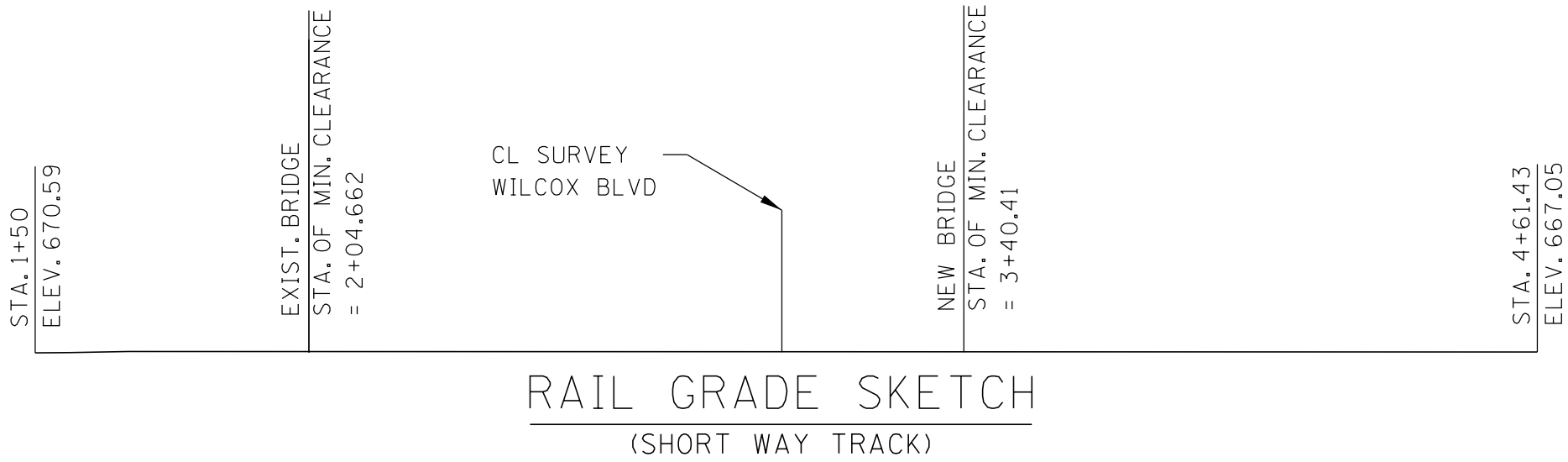
CONST. NO.: 33LCIT-F1-010			
PROJECT NO.		YEAR	SHEET NO.
BR-NH/STP-M/RAISE-3556(9)		2024	B3
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
-	-	-	-
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SEALED BY

LINE & GRADE
PLANS



⊗ DENOTES: EXISTING POINT OF MINIMUM CLEARANCE
⊙ DENOTES: PROPOSED POINT OF MINIMUM CLEARANCE



PIN NO.:
DESIGN BY: DATE: / /
DRAWN BY: DATE: / /
SUPERVISED BY: DATE: / /
CHECKED BY: DATE: / /

CONST. NO.: 33LCIT-F1-010			
PROJECT NO.		YEAR	SHEET NO.
BR-NH/STP-M/RAISE-3556(9)		2024	B4
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
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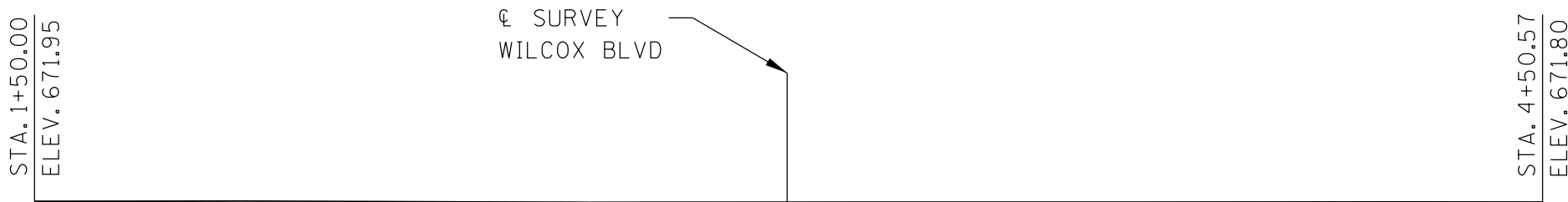
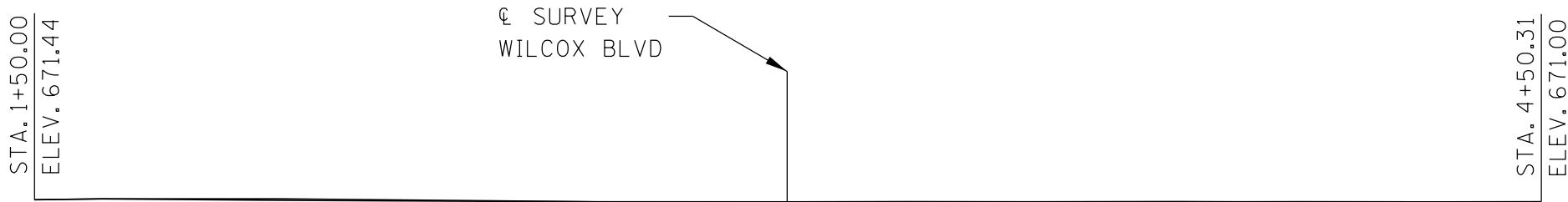
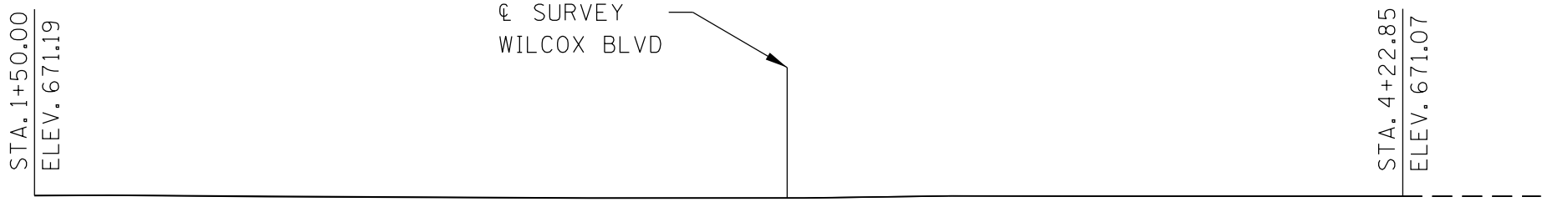
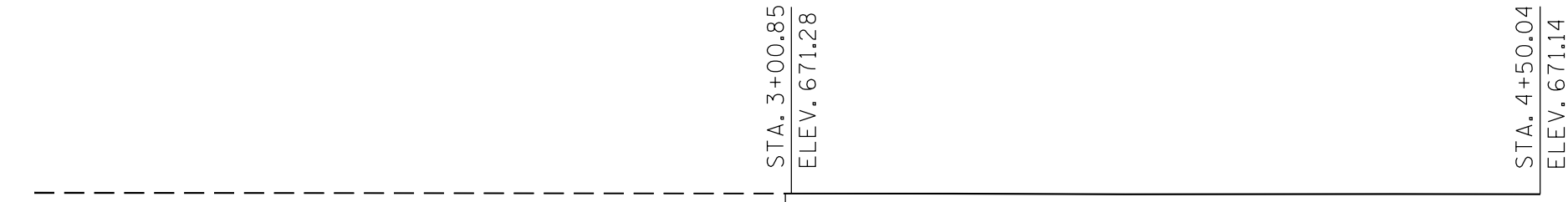
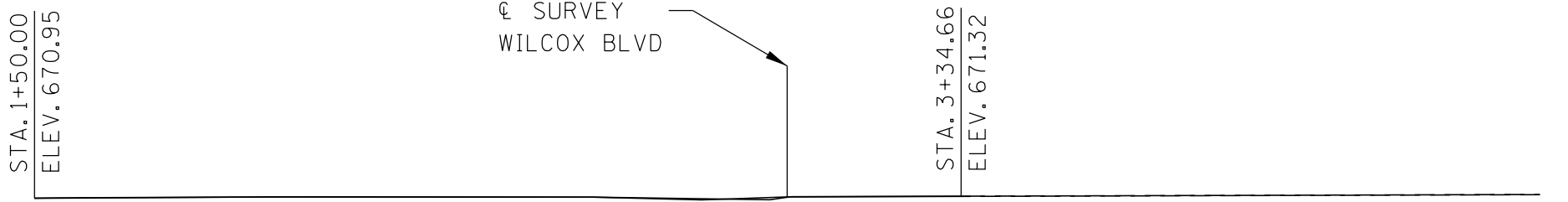
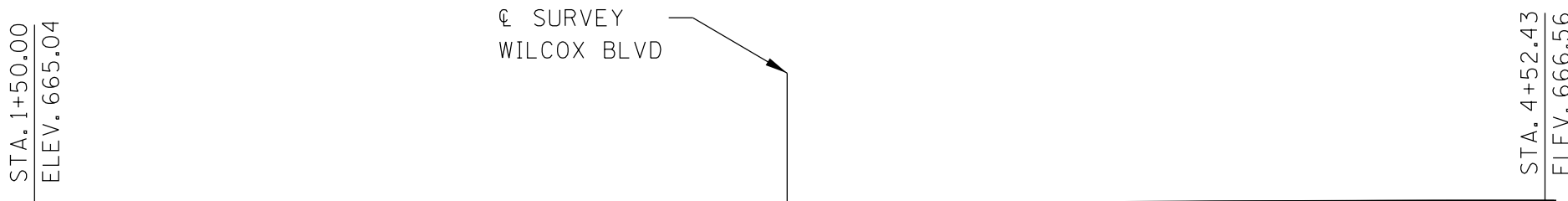
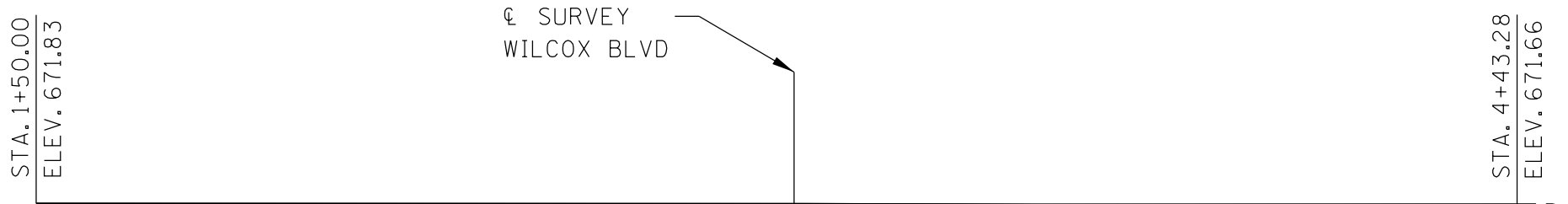
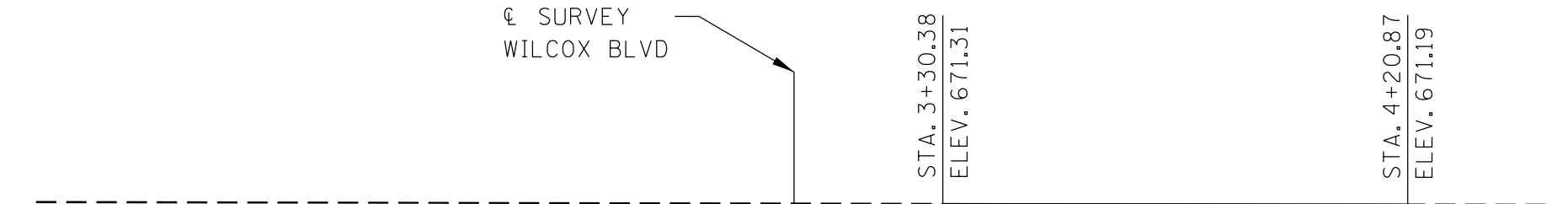
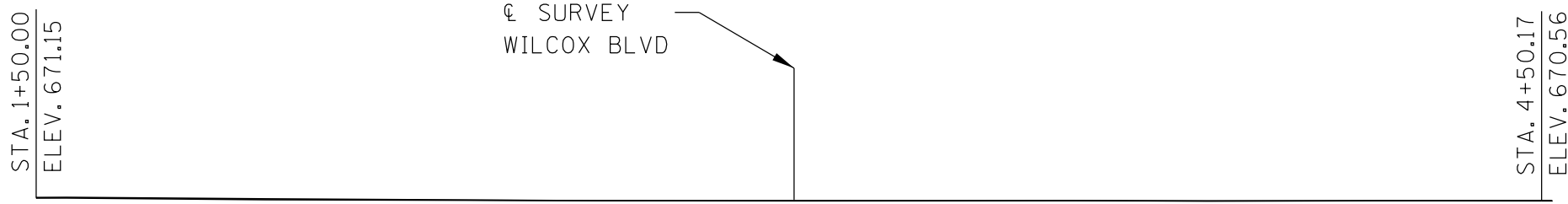
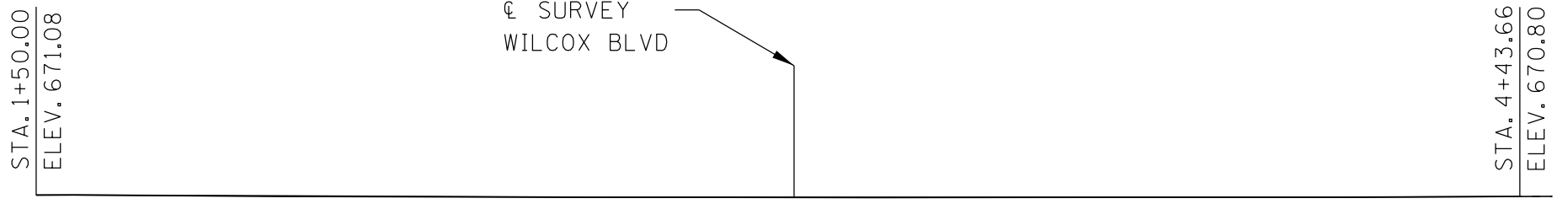
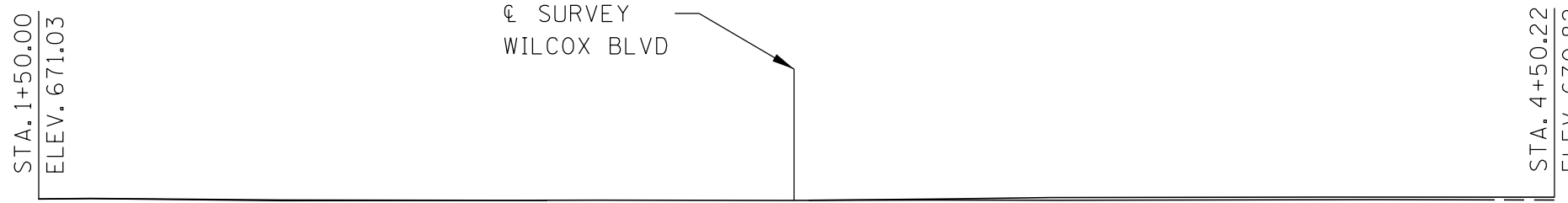
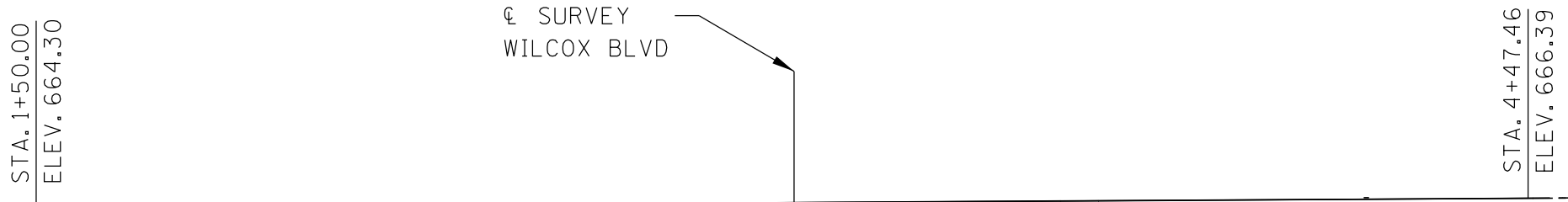
NOTES:

1. THE ELEVATIONS OF THE EXISTING TOP-OF-RAIL PROFILE SHALL BE VERIFIED BEFORE BEGINING CONSTRUCTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE NORFOLK SOUTHERN PUBLIC IMPROVEMENTS ENGINEER.

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LINE & GRADE PLANS

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1
RAIL GRADE SKETCHES
WILCOX BOULEVARD
OVER DEBUTTS RAIL YARD
AND CSX TRANSPORTATION
BRIDGE ID NO. 33035560003
STATION 512+41.50
HAMILTON COUNTY
2024



CONST. NO.: 33LCIT-F1-010

PROJECT NO.		YEAR	SHEET NO.
BR-NH/STP-M/RAISE-3556(9)		2024	B5
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
- -	- -	- -	- -
- -	- -	- -	- -
- -	- -	- -	- -
- -	- -	- -	- -

NOTES:

1. THE ELEVATIONS OF THE EXISTING TOP-OF-RAIL PROFILE SHALL BE VERIFIED BEFORE BEGINING CONSTRUCTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE NORFOLK SOUTHERN PUBLIC IMPROVEMENTS ENGINEER.

LEGEND

————— DENOTES: SURVEYED TOP OF RAIL.

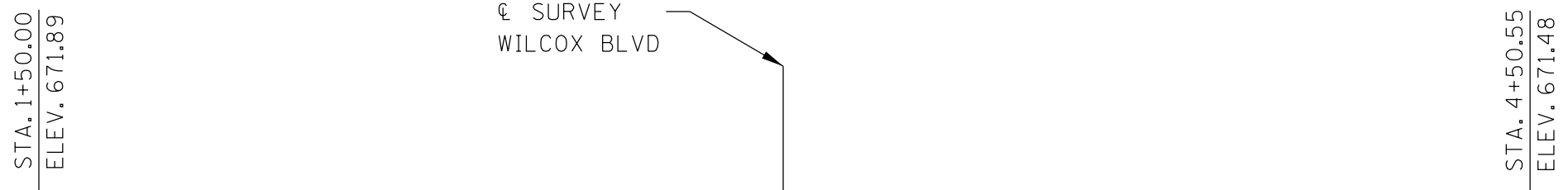
- - - - - DENOTES: PROJECTED TOP OF RAIL WHERE SURVEY COULD NOT CAPTURE RAIL DUE TO OBSTRUCTIONS.

SEALED BY

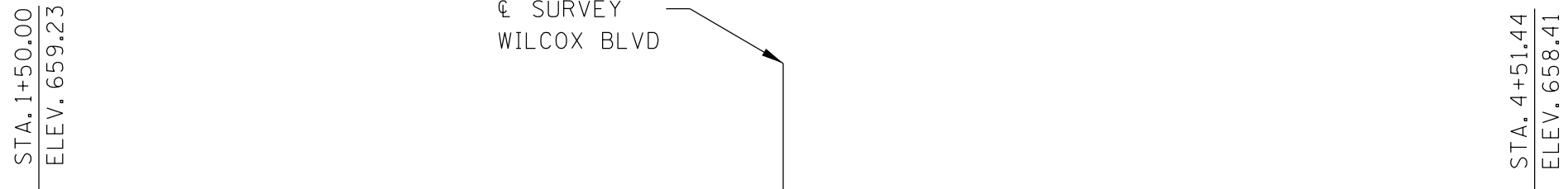
LINE & GRADE PLANS

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1
RAIL GRADE SKETCHES
WILCOX BOULEVARD
OVER DEBUTTS RAIL YARD
AND CSX TRANSPORTATION
BRIDGE ID NO. 33035560003
STATION 512+41.50
HAMILTON COUNTY
2024

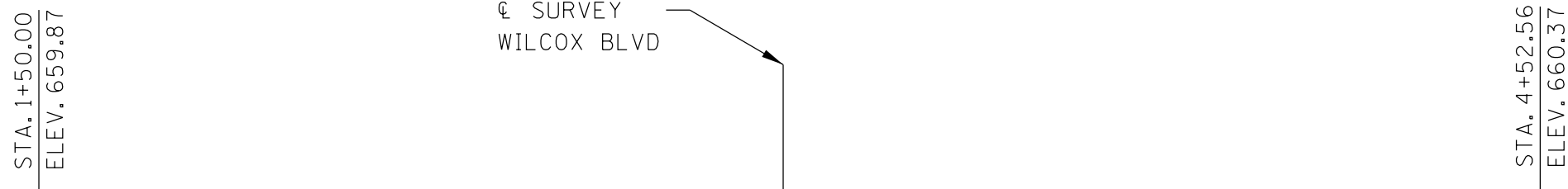
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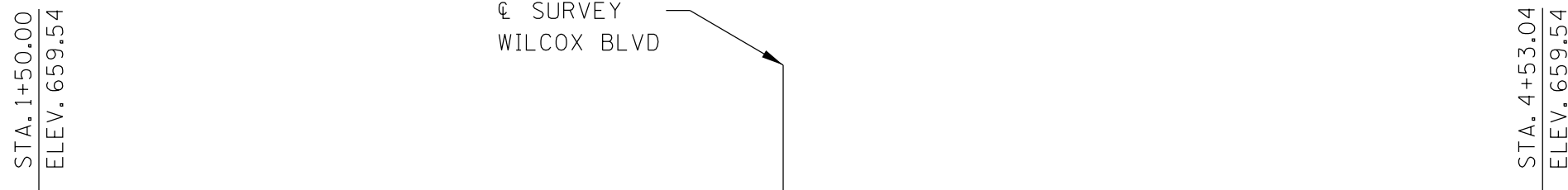
RAIL GRADE SKETCH
(EAST THOROUGHFARE)



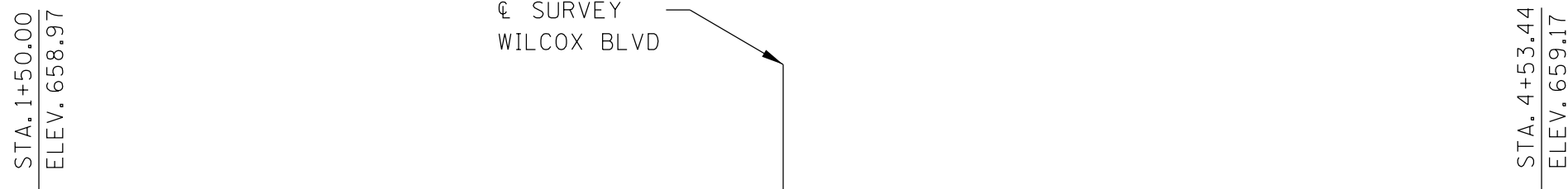
RAIL GRADE SKETCH
(RIP #2)



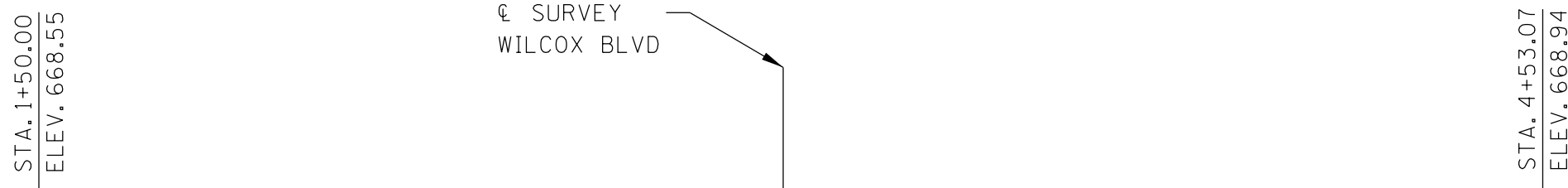
RAIL GRADE SKETCH
(THOROUGHFARE)



RAIL GRADE SKETCH
(FORWARDING TRACK #4)

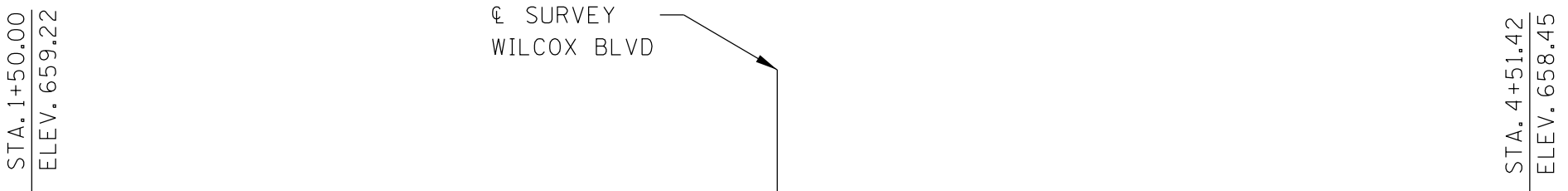


RAIL GRADE SKETCH
(FORWARDING TRACK #1)

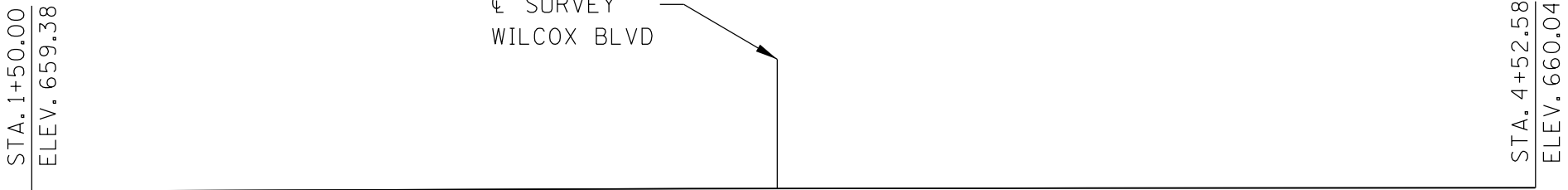


RAIL GRADE SKETCH
(CSXT TRACK)

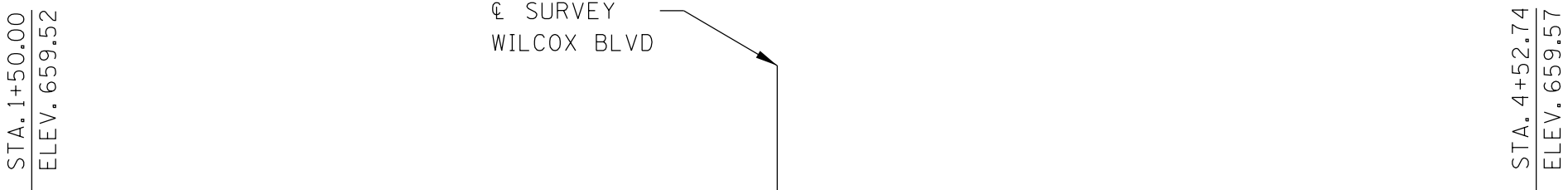
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DRAWN BY: _____ DATE: __/__/____
SUPERVISED BY: _____ DATE: __/__/____
CHECKED BY: _____ DATE: __/__/____



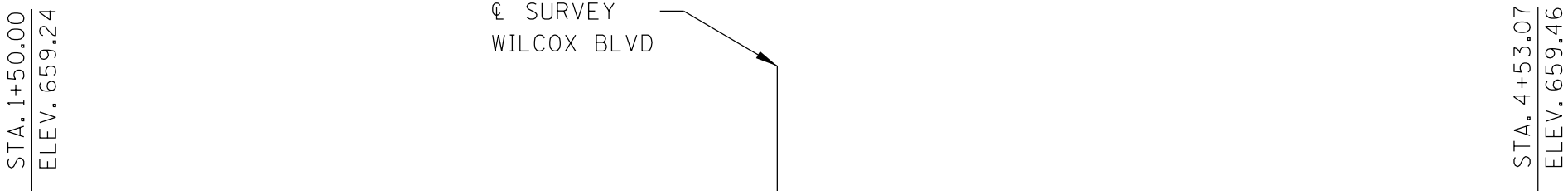
RAIL GRADE SKETCH
(RIP #3)



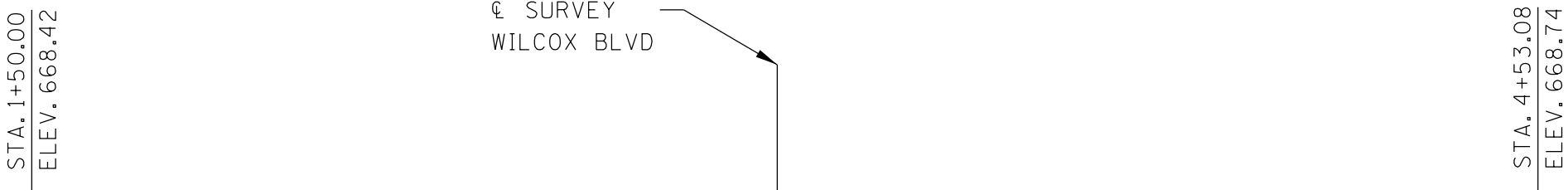
RAIL GRADE SKETCH
(CLEAN TRACK)



RAIL GRADE SKETCH
(FORWARDING TRACK #8)



RAIL GRADE SKETCH
(FORWARDING TRACK #2)



RAIL GRADE SKETCH
(NSR MAIN TRACK)

CONST. NO.: 33LCIT-F1-010

PROJECT NO.		YEAR	SHEET NO.
BR-NH/STP-M/RAISE-3556(9)		2024	B6
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION

NOTES:

1. THE ELEVATIONS OF THE EXISTING TOP-OF-RAIL PROFILE SHALL BE VERIFIED BEFORE BEGINING CONSTRUCTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE NORFOLK SOUTHERN PUBLIC IMPROVEMENTS ENGINEER.

LEGEND

————— DENOTES: SURVEYED TOP OF RAIL.

- - - - - DENOTES: PROJECTED TOP OF RAIL WHERE SURVEY COULD NOT CAPTURE RAIL DUE TO OBSTRUCTIONS.

SEALED BY

LINE & GRADE
PLANS

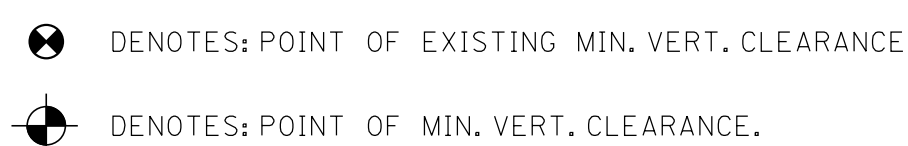
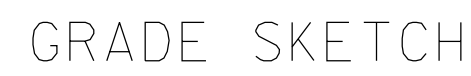
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1
RAIL GRADE SKETCHES
WILCOX BOULEVARD
OVER DEBUTTS RAIL YARD
AND CSX TRANSPORTATION
BRIDGE ID NO. 33035560003
STATION 512+41.50
HAMILTON COUNTY
2024



 DENOTES: POINT OF EXISTING MIN. VERT. CLEARANCE. SEE PLAN VIEW FOR LOCATION.
 EV1 DENOTES: POINT OF EXISTING MIN. VERT. CLEARANCE = 33'-4½"
 EV2 DENOTES: POINT OF EXISTING MIN. VERT. CLEARANCE = 33'-9"
 EV3 DENOTES: POINT OF EXISTING MIN. VERT. CLEARANCE = 34'-3½"

 DENOTES: POINT OF MIN. VERT. CLEARANCE. SEE PLAN VIEW FOR LOCATION.
 V1 DENOTES: POINT OF ACTUAL MIN. VERT. CLEARANCE = 39'-2½"
 V2 DENOTES: POINT OF ACTUAL MIN. VERT. CLEARANCE = 37'-4¼"
 V3 DENOTES: POINT OF ACTUAL MIN. VERT. CLEARANCE = 38'-9¾"
 V4 DENOTES: POINT OF ACTUAL MIN. VERT. CLEARANCE = 33'-10½"
 V5 DENOTES: POINT OF ACTUAL MIN. VERT. CLEARANCE = 31'-6"
 V6 DENOTES: POINT OF ACTUAL MIN. VERT. CLEARANCE = 34'-0¾"

 DENOTES: 4" STRIPSEAL EXPANSION JOINT



EH1 DENOTES: POINT OF EXISTING MIN. HORIZ. CLEARANCE = $9'-8\frac{1}{2}"$
EH2 DENOTES: POINT OF EXISTING MIN. HORIZ. CLEARANCE = $17'-0\frac{1}{4}"$
EH3 DENOTES: POINT OF EXISTING MIN. HORIZ. CLEARANCE = $18'-4\frac{1}{4}"$

SEE SHEETS 3 THROUGH 5 FOR HORIZONTAL CLEARANCES TO PROPOSED BENTS

H1 DENOTES: POINT OF MIN. HORIZ. CLEARANCE = $13'-1\frac{1}{2}"$
H2 DENOTES: POINT OF MIN. HORIZ. CLEARANCE = $18'-0\frac{1}{4}"$

1. CONSTRUCTION SPECIFICATIONS: TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 1, 2021 EDITION.)
2. DESIGN SPECIFICATIONS: 9TH EDITION (2020) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND THE 2ND EDITION (2011) AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN WITH INTERIMS.
3. LOADING: HL-93 LIVE LOADING; SEISMIC CATEGORY "B" WITH $AS = .209$, $SDS = .404$, $SD1 = .160$ (1000 YEAR RETURN PERIOD); DEAD LOADS TO INCLUDE 35 LB/SQ.FT. FOR FUTURE WEARING SURFACE.
4. SUPERSTRUCTURE: TO CONSIST OF 6 SPANS OF CONTINUOUS STEEL PLATE GIRDERS WITH COMPOSITE CONCRETE SLAB.
5. CONCRETE: CLASS A $F'C = 3000$ PSI, CLASS DS $F'C = 4000$ PSI FOR BRIDGE DECK.
6. REINFORCING STEEL: TO BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE, EPOXY COAT ALL SLAB STEEL.
7. BRIDGE DECK SURFACE FINISH: TO BE IN ACCORDANCE WITH METHOD 1 IN ARTICLE 604.22 OF THE STANDARD SPECIFICATIONS.
8. USE STD-11-2 BRIDGE RAIL.
9. TEXTURE COATING: TO BE GRAY (36440) EXCEPT ENTIRE BRIDGE RAIL TO BE WHITE (37886).
10. EXCAVATION: TO BE BASED ON EXISTING GROUND AT ABUTMENTS AND BENTS.
11. FLUMES AT BRIDGE ENDS ARE NOT REQUIRED.
12. BRIDGE DECK DRAINS ARE REQUIRED.
13. EXISTING BRIDGE DESCRIPTION: STEEL STRUCTURE WITH CONCRETE DECK, APPROXIMATELY 400' LONG AND 24' WIDE, 8 SPANS.
14. SEE PROJECT COMMITMENTS AND SPECIAL PROVISION 202ACM.
15. ALL BRIDGE ELEMENT TYPES AND DIMENSIONS ARE BASED ON PRELIMINARY ASSUMPTIONS AND ARE SUBJECT TO CHANGE IN FINAL DESIGN.
16. ALL HORIZONTAL CLEARANCES ARE MEASURED FROM CENTERLINE OF TRACK TO NEAREST FACE OF BRIDGE ELEMENT.

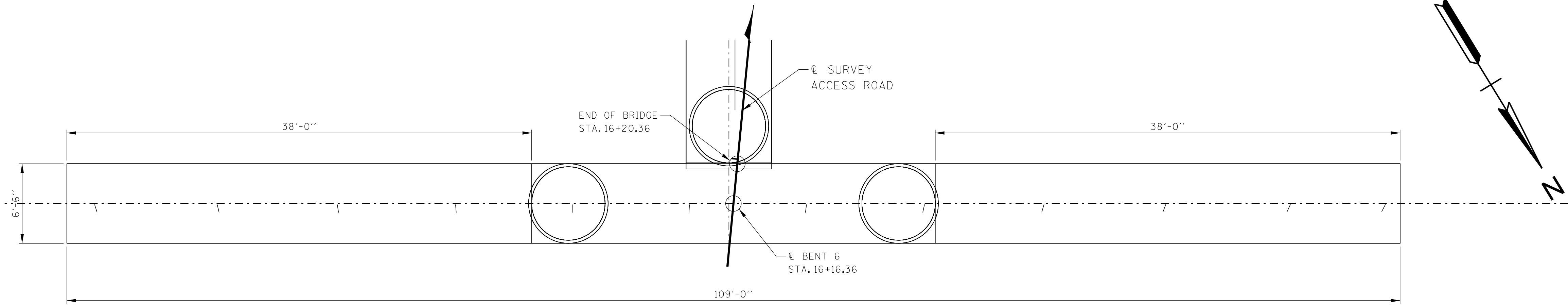
LINE & GRADE PLANS

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 2
PRELIMINARY LAYOUT
ACCESS ROAD
OVER DEBUTTS RAIL YARD
AND CSX TRANSPORTATION
STATION 13+70.36
HAMILTON COUNTY
2024

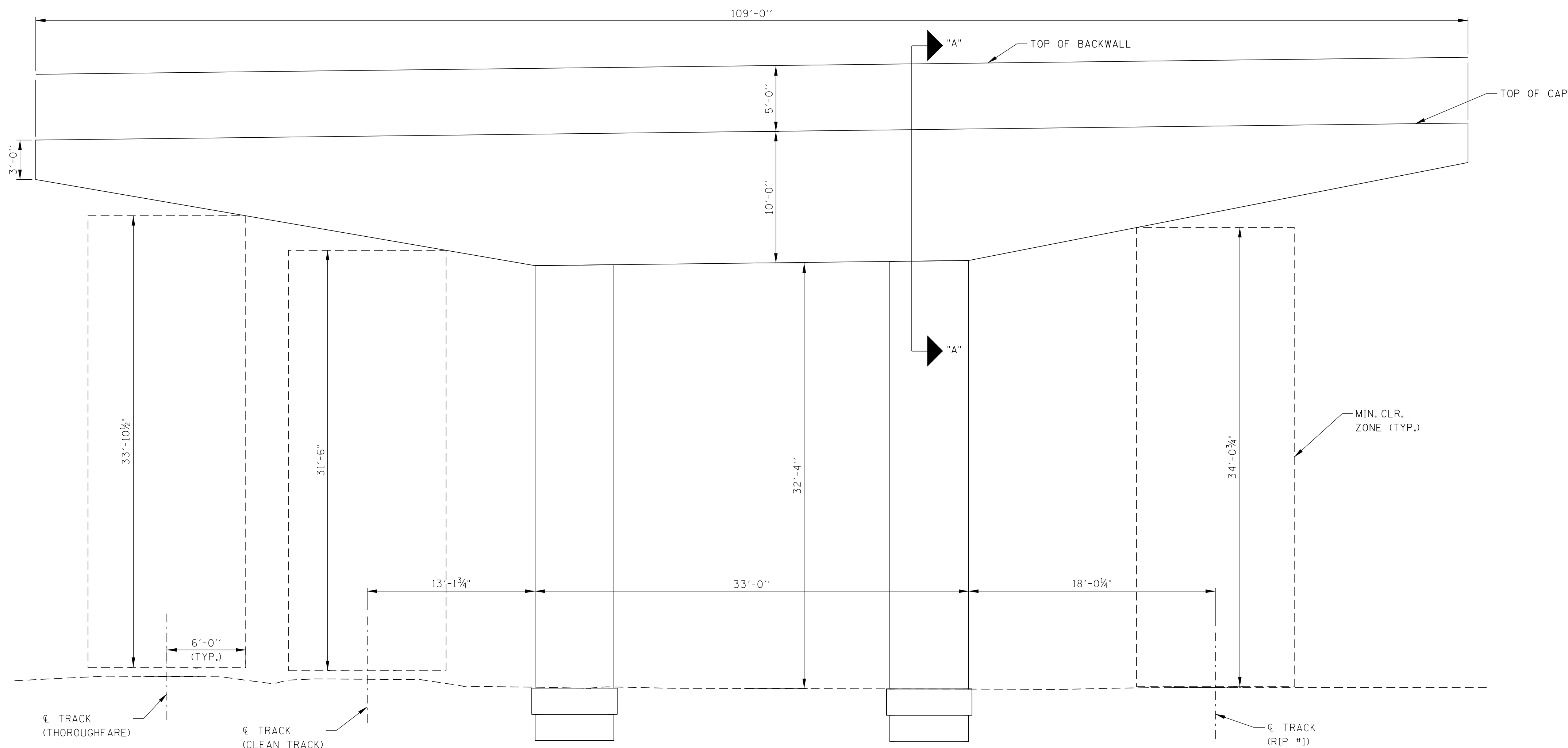


1. PROTECTIVE FENCING SHALL MEET OR EXCEED THE REQUIREMENTS OF NORFOLK SOUTHERN PUBLIC PROJECTS MANUAL (PPM) DRAWING NO. 3.

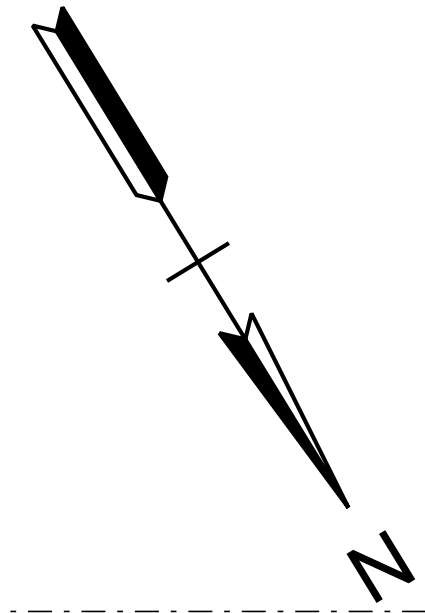
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 2
TYPICAL SECTION
ACCESS ROAD
OVER DEBUTTS RAIL YARD
AND CSX TRANSPORTATION
STATION 13+70.36
HAMILTON COUNTY
2024



PLAN



ELEVATION
(LOOKING FORWARD ON SURVEY)

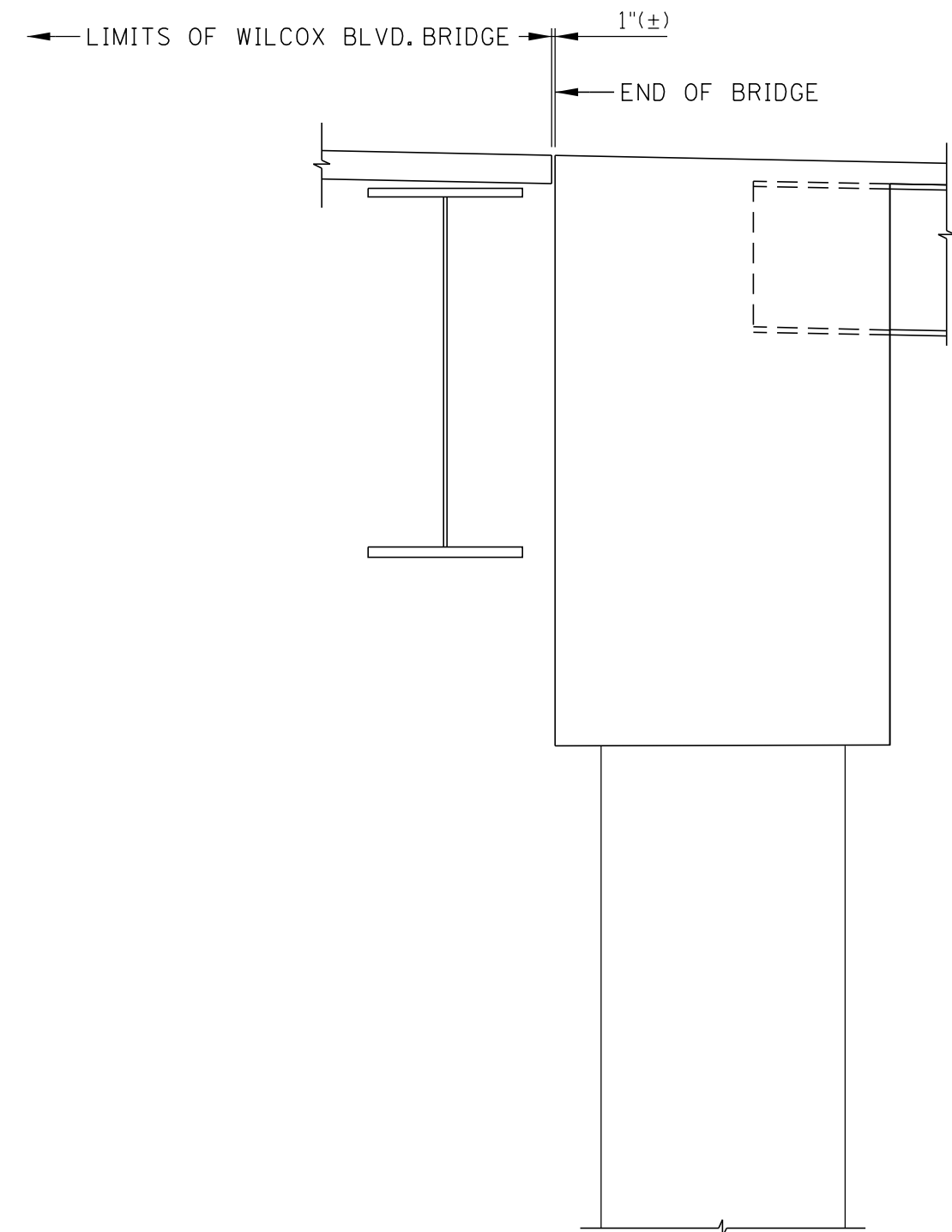


CONST. NO.: 33LCIT-F1-010

PROJECT NO.		YEAR	SHEET NO.
BR-NH/STP-M/RAISE-3556(9)		2024	B9
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
-	-	-	-
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NOTES:

- DETAIL OF JOINT BETWEEN ACCESS ROAD BRIDGE AND WILCOX BLVD. BRIDGE WILL BE DETERMINED DURING FINAL DESIGN.

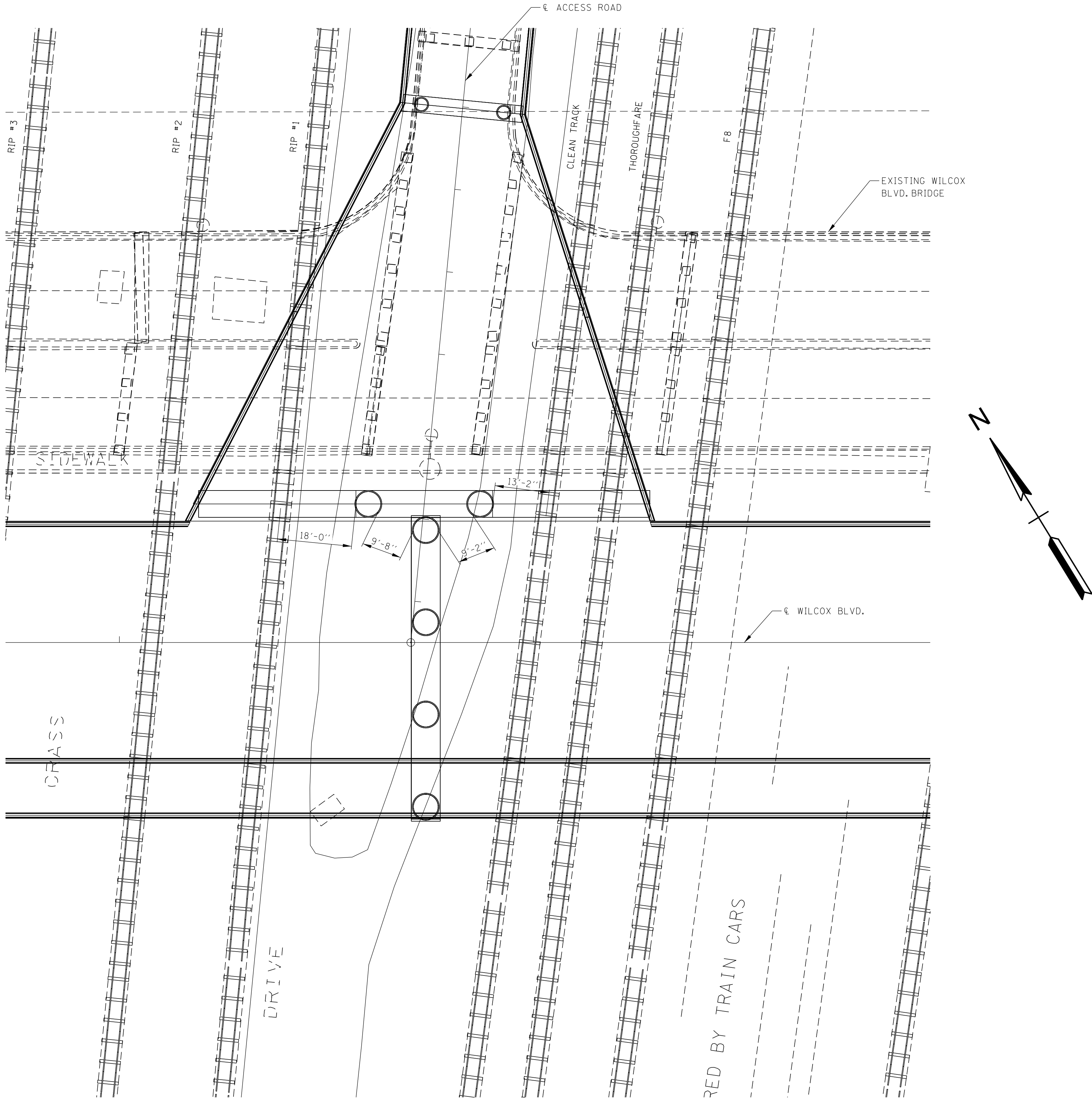


SECTION "A"-A"
N.T.S.

SEALED BY
**LINE & GRADE
PLANS**

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**BRIDGE NO. 2
BENT NO. 6
ACCESS ROAD
OVER DEBUTTS RAIL YARD
AND CSX TRANSPORTATION
STATION 13+70.36
HAMILTON COUNTY
2024**

PIN NO.:
DESIGN BY: DATE: / /
DRAWN BY: DATE: / /
SUPERVISED BY: DATE: / /
CHECKED BY: DATE: / /



PIN NO.:
DESIGN BY:
DRAWN BY:
SUPERVISED BY:
CHECKED BY:

DATE: //
DATE: //
DATE: //
DATE: //

PARTIAL PLAN
SHOWING POSITION OF ACCESS ROAD BRIDGE SUBSTRUCTURE
ELEMENTS RELATIVE TO WILCOX BLVD BRIDGE

CONST. NO.: 33LCIT-F1-010

PROJECT NO.		YEAR	SHEET NO.
BR-NH/STP-M/RAISE-3556(9)		2024	B10
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
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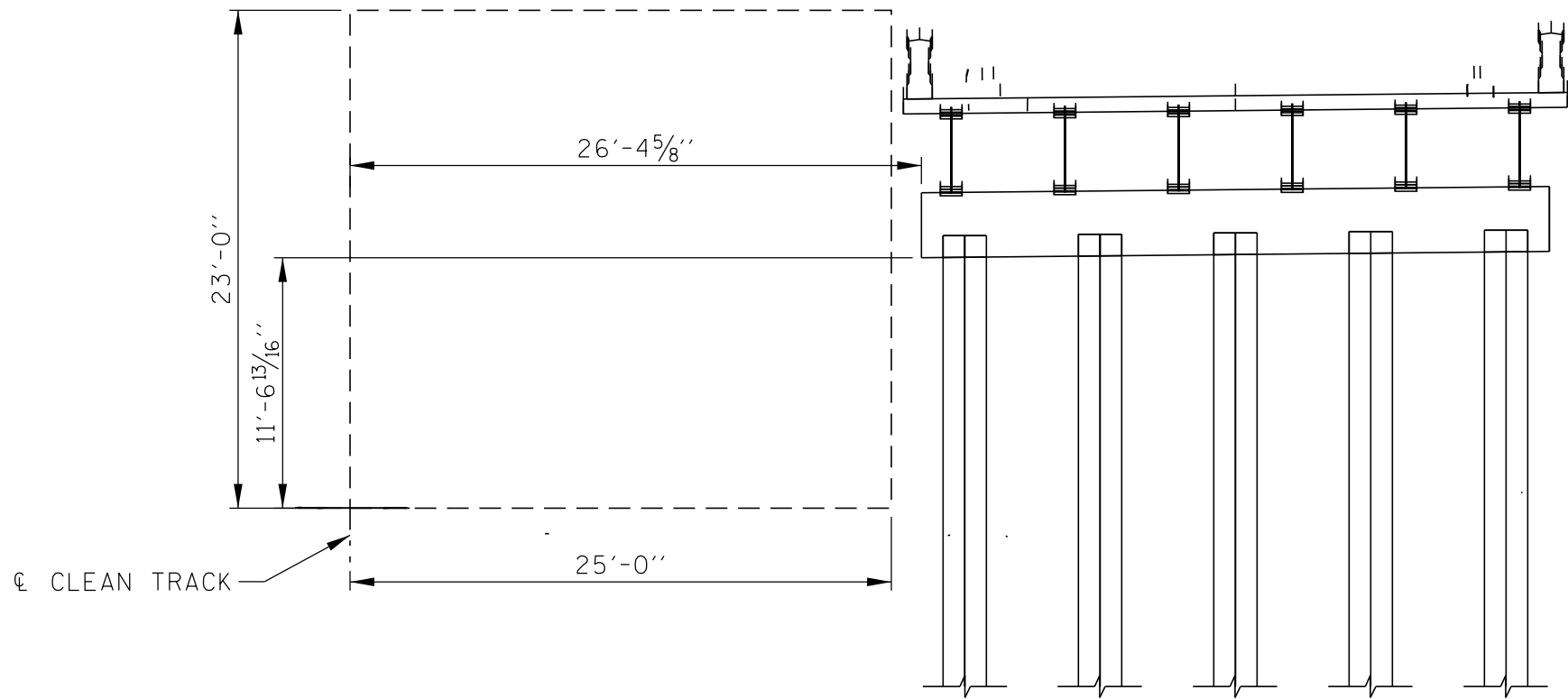
LINE & GRADE
PLANS

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 2
LAYOUT AT INTERSECTION
ACCESS ROAD
OVER DEBUTTS RAIL YARD
AND CSX TRANSPORTATION
STATION 13+70.36
HAMILTON COUNTY
2024

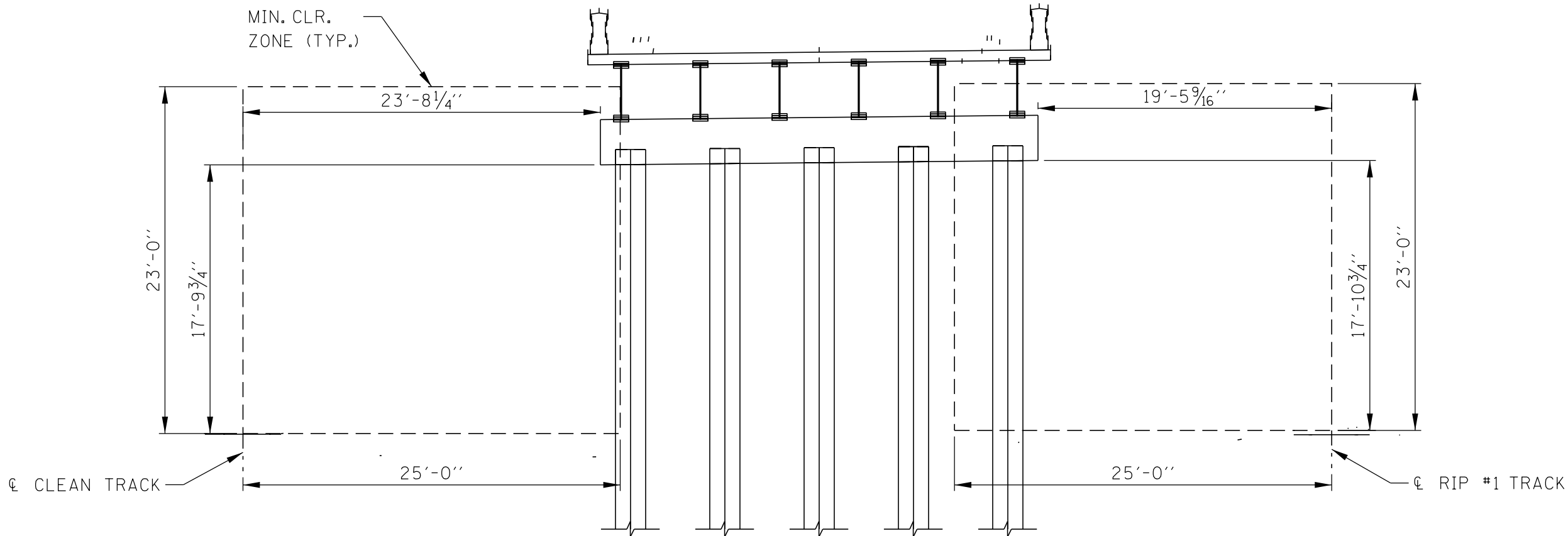
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PIN NO.:
DESIGN BY:
DRAWN BY:
SUPERVISED BY:
CHECKED BY:

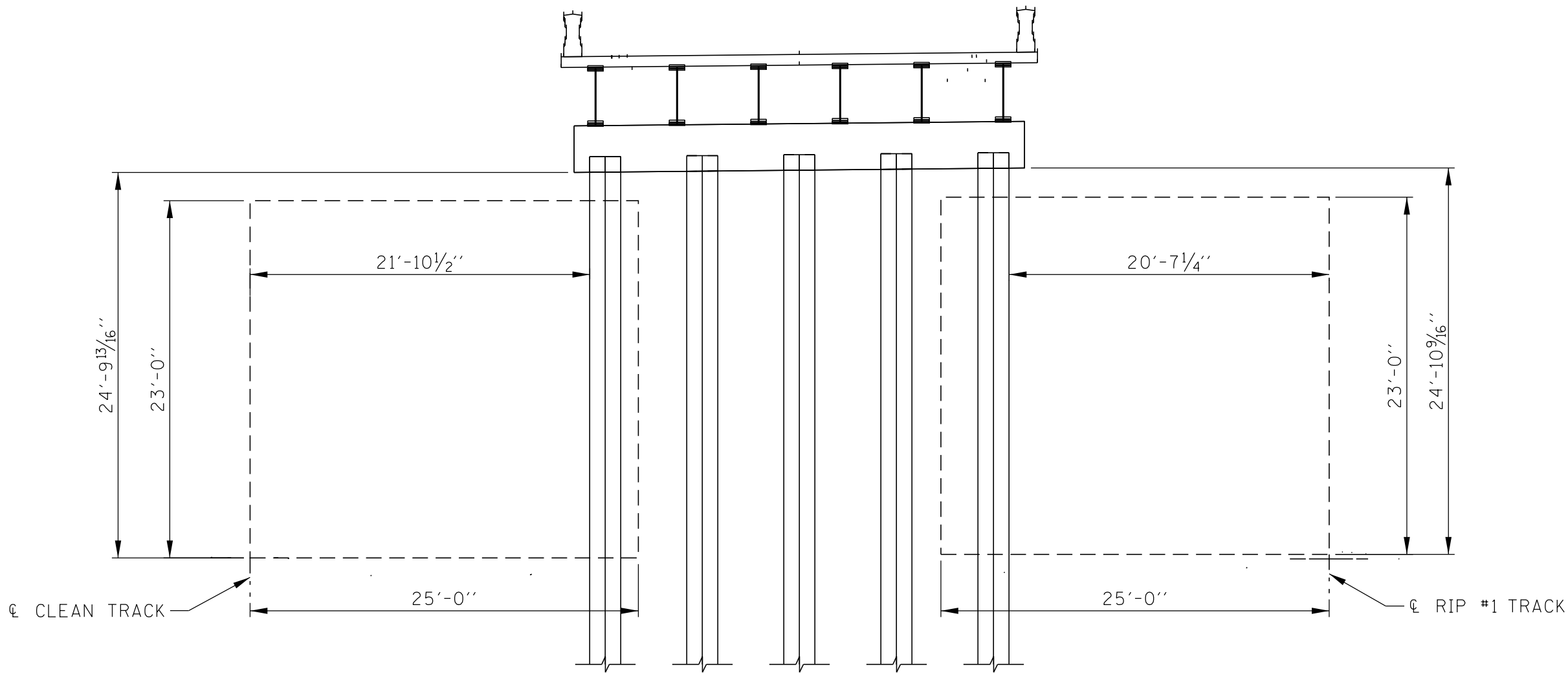
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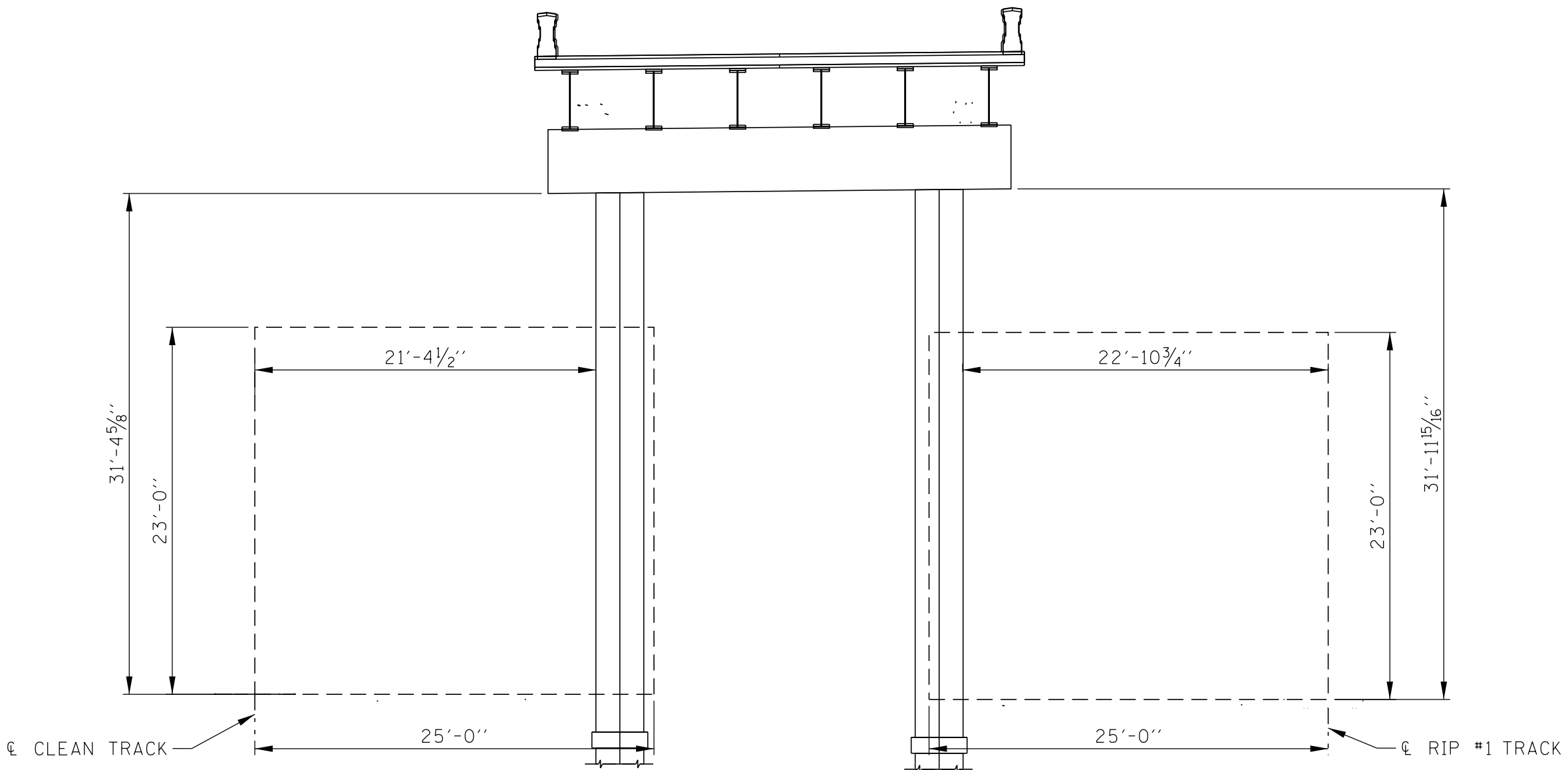
ELEVATION - BENT 2
(LOOKING FORWARD ON SURVEY)



ELEVATION - BENT 3
(LOOKING FORWARD ON SURVEY)



ELEVATION - BENT 4
(LOOKING FORWARD ON SURVEY)



ELEVATION - BENT 5
(LOOKING FORWARD ON SURVEY)

CONST. NO.: 33LCIT-F1-010			
PROJECT NO.		YEAR	SHEET NO.
BR-NH/STP-M/RAISE-3556(9)		2024	B11
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

- NOTES:
- CRASHWALLS ARE NOT CURRENTLY SHOWN BUT WILL BE ADDED TO ALL PIERS THAT FALL WITHIN 25' OF TRACK CENTERLINE IN FINAL DESIGN.

SEALED BY

LINE & GRADE
PLANS

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 2
BENT CLEARANCE SKETCHES
ACCESS ROAD
OVER DEBUTTS RAIL YARD
AND CSX TRANSPORTATION
STATION 13+70.36
HAMILTON COUNTY
2024