

MINNESOTA DEPARTMENT OF TRANSPORTATION
MARSHALL, MINNESOTA
TH 19

CONSTRUCTION PLAN FOR GRADING, BITUMINOUS MILLING, CONCRETE & BITUMINOUS SURFACING, SIGNALS, LIGHTING, ADA IMPROVEMENTS

LOCATED ON TH 19 FROM 700' EAST OF CHANNEL PKWY TO BRUCE ST

STATE PROJ. NO. 4204-40

GROSS LENGTH 9676.28 FEET 1.83 MILES
BRIDGES-LENGTH 226.47 FEET 0.04 MILES
EXCEPTIONS-LENGTH 226.47 FEET 0.04 MILES
NET LENGTH 9449.81 FEET 1.79 MILES
REF. POINT 33+00.675 TO REF. POINT 35+00.511

BEGIN SP 4204-04 (TH 19)
STA 708+89.00 (TH19)

END SP 4204-04 (TH 19)
STA 805+65.25 (TH19)

BR. NO. 5083

T 112 N

EQUATIONS:

TH 19 STA. 688+03.40 BACK=
TH 19 STA. 688+03.57 AHEAD
TH 19 STA. 714+52.80 BACK=
TH 19 STA. 714+53.07 AHEAD
TH 19 STA. 741+00.00 BACK=
TH 19 STA. 740+99.79 AHEAD
TH 19 STA. 748+30.08 BACK=
TH 19 STA. 748+18.07 AHEAD
TH 19 STA. 784+80.06 BACK=
TH 19 STA. 784+62.98 AHEAD
TH 19 STA. 799+60.00 BACK=
TH 19 STA. 799+60.10 AHEAD



PROJECT LOCATION

COUNTY : LYON

DISTRICT : 8

FOR PLANS AND UTILITIES SYMBOLS SEE TECHNICAL MANUAL

STATE PROJ. NO. CHARGE IDENTIFIER

4204-40

DESIGN DESIGNATION
FOR:

R-VALUE TH 19 XX
ADT (Current Year) 20XX = XX,XXX
ADT (Future Year) 20XX = X,XXX (YEAR)
PAVEMENT DESIGN XX TON
FUNCTIONAL CLASSIFICATION X
NO. OF TRAFFIC LANES X
NO. OF PARKING LANES X
ESALS (20) XXX,XXX (X YRS.)
Design Speed 30 MPH
Based on Sight Distance STOPPING
Height of eye / Height of Object 3.5' / 2.0'
Design Speed not achieved at: 783+21 TO 784+63 (25 MPH)

PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY

I HEREBY CERTIFY THAT THE FINAL FIELD CHANGES, IF ANY, OF THIS PLAN WERE MADE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE _____
DATE _____ LIC. NO. _____ PRINT NAME _____

S.A.P. 139-111-007, 139-112-006, 139-115-004, 139-122-007, 139-124-005
STATE PROJ. NO. 4204-40 (TH19 = 014) SHEET NO. 1 OF 122 SHEETS

FED. PROJ. NO.

GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE "SUPPLEMENTAL SPECIFICATIONS" DATED SEPTEMBER 2022 SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD) AND PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".

INDEX

SHEET NO.	SHEET DESCRIPTION
1	TITLE SHEET
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-	STATEMENT OF ESTIMATED QUANTITIES
-	STANDARD PLATES
-	EARTHWORK TABULATIONS AND SUMMARY
-	CONSTRUCTION AND SOILS NOTES
-	TABULATIONS
4-16	TYPICAL SECTIONS
-	MISCELLANEOUS DETAILS
-	STANDARD PLAN SHEETS
-	STAGING AND TRAFFIC CONTROL PLANS
17-23	ALIGNMENT PLANS AND TABULATIONS
24-36	INPLACE TOPOGRAPHY, UTILITY AND RIGHT OF WAY PLANS
37-49	REMOVAL PLANS
50-62	CONSTRUCTION AND SUPERELEVATION PLANS
63-97	INTERSECTION AND ADA PLANS
98-109	PROFILES
110-122	DRAINAGE PLANS
-	DRAINAGE TABULATIONS, PROFILES AND DETAILS
-	EROSION CONTROL AND TURF ESTABLISHMENT PLANS
-	PAVEMENT MARKING PLANS AND DETAILS
-	LIGHTING PLANS AND DETAILS
-	SIGNING PLANS AND DETAILS
-	TRAFFIC SIGNAL PLANS AND DETAILS
X1-X82	CROSS SECTIONS

THIS PLAN CONTAINS 204 SHEETS



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE _____
DATE XX/XX/XX LIC. NO. XXXXXX PRINT NAME XXX

RECOMMENDED FOR APPROVAL STATE PRE-LETTING ENGINEER 20

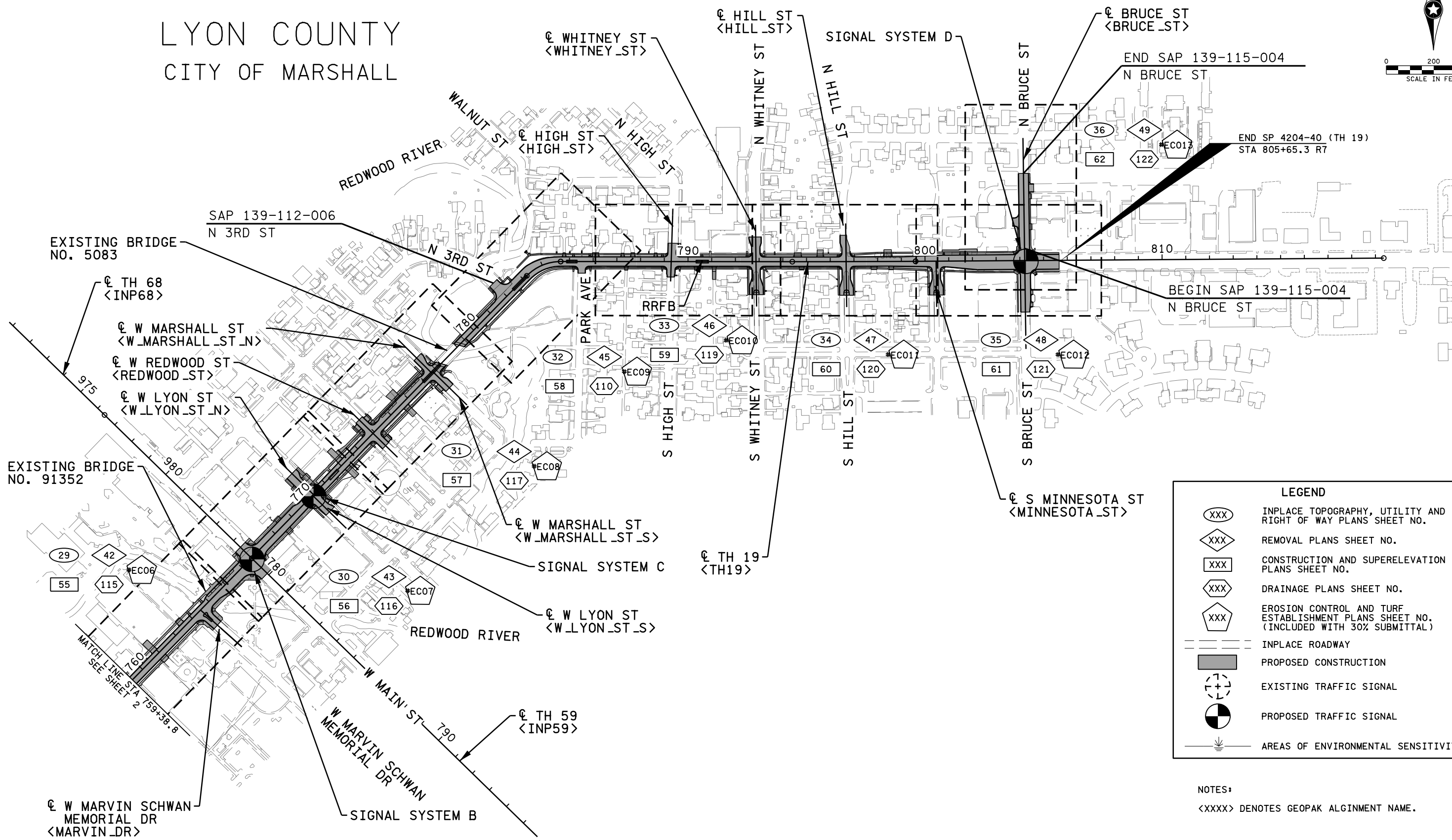
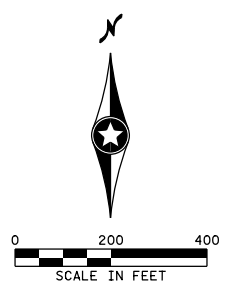
OFFICE OF LAND MANAGEMENT APPROVAL DIRECTOR, LAND MANAGEMENT 20

APPROVED STATE DESIGN ENGINEER 20

DISTRICT STATE AID ENGINEER REVIEWED FOR COMPLIANCE WITH STATE AND/OR FEDERAL AID RULES/POLICY 20

APPROVED FOR STATE AND/OR FEDERAL AID FUNDING STATE AID ENGINEER 20

LYON COUNTY
CITY OF MARSHALL



LEGEND

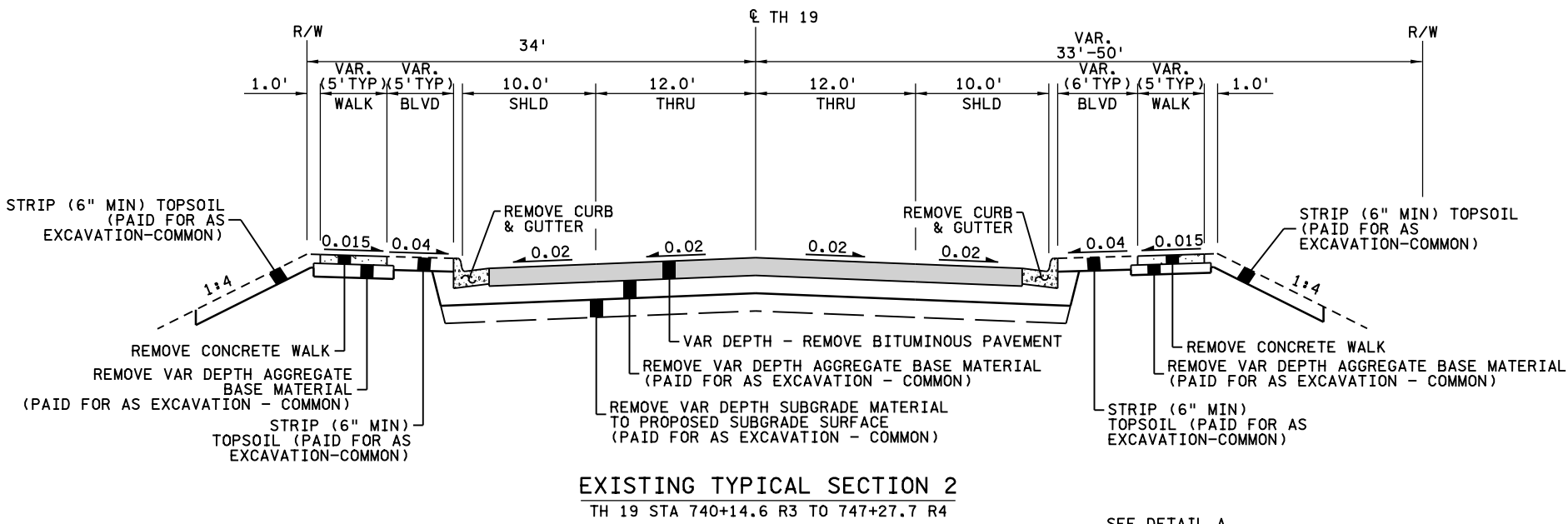
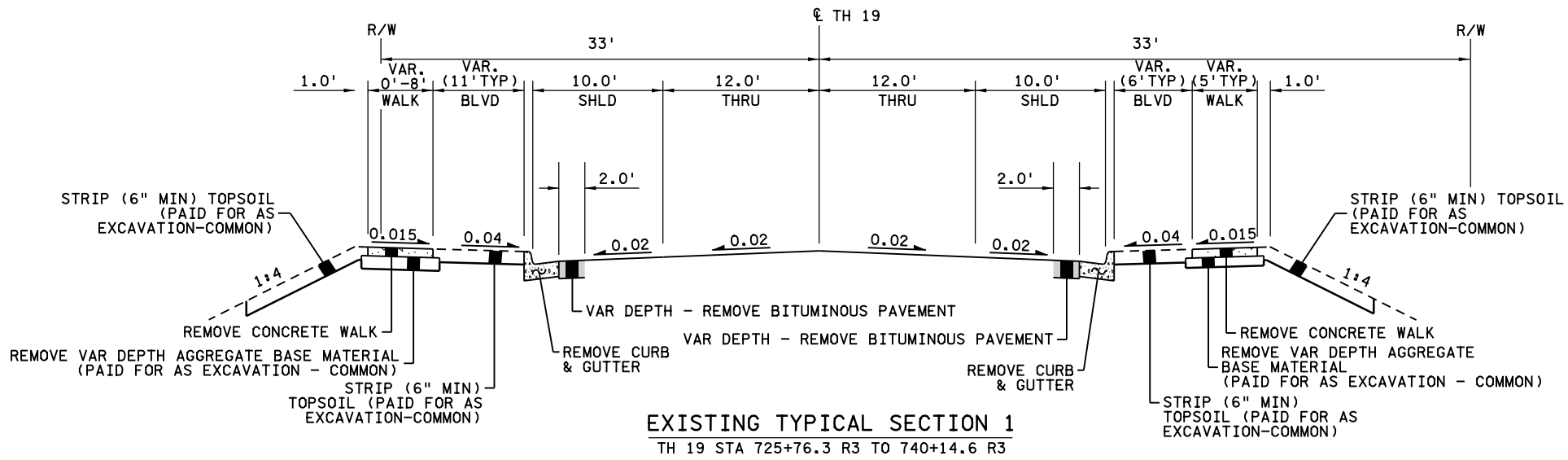
- XXX INPLACE TOPOGRAPHY, UTILITY AND RIGHT OF WAY PLANS SHEET NO.
- XXX REMOVAL PLANS SHEET NO.
- XXX CONSTRUCTION AND SUPERELEVATION PLANS SHEET NO.
- XXX DRAINAGE PLANS SHEET NO.
- XXX EROSION CONTROL AND TURF ESTABLISHMENT PLANS SHEET NO. (INCLUDED WITH 30% SUBMITTAL)
- INPLACE ROADWAY
- █ PROPOSED CONSTRUCTION
- ⊕ EXISTING TRAFFIC SIGNAL
- ⊙ PROPOSED TRAFFIC SIGNAL
- ▨ AREAS OF ENVIRONMENTAL SENSITIVITY

NOTES:
<XXXX> DENOTES GEOPAK ALGMENT NAME.

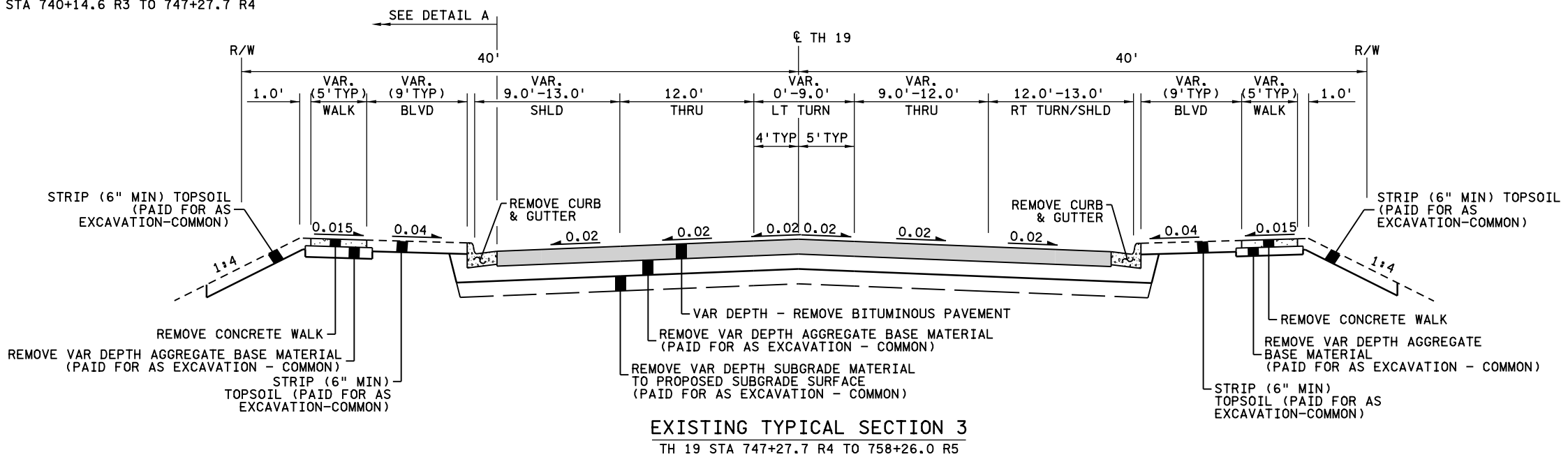
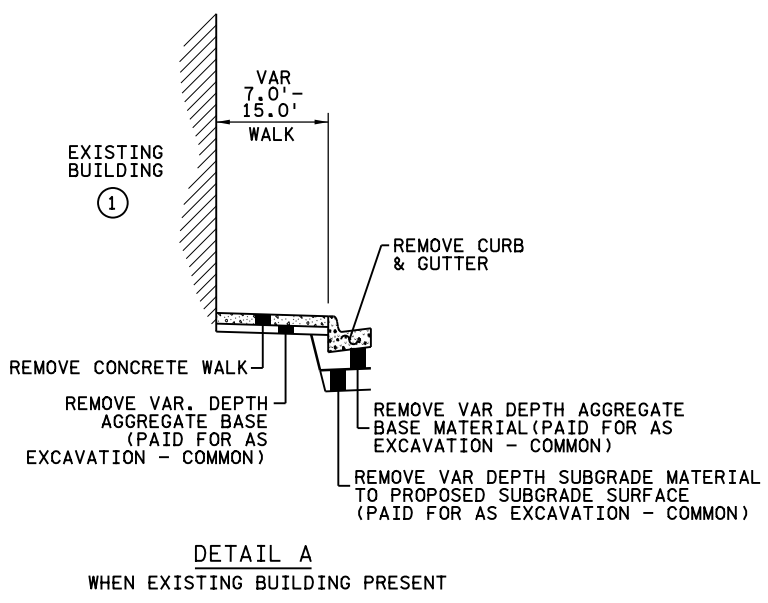
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						I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.		STATE AID PROJECT NO. 139-111-007 139-112-006 139-115-004 139-122-007 139-124-005		DRAWN BY J. VAN BECK DESIGNED BY C. FIENUP CHECKED BY K. HARRISON		 MINNESOTA DEPARTMENT OF TRANSPORTATION GENERAL LAYOUT SP 4204-40 (TH 19)		SHEET 3 OF 122
						Print Name: KYLE F. HARRISON		STATE PROJECT NO. 4204-40		CITY PROJECT NO. X				
NO DATE BY CKD APPR REVISION						Date								

- GENERAL NOTES:
- 1. CROSS SLOPES ARE FT./FT.
 - 2. ALL SLOPES LISTED AS X:X ARE IN THE RISE TO RUN FORMAT.
 - 3. MAXIMUM SHOULDER SUPERELEVATION ROLLOVER SHALL BE 7%.
 - 4. ALL SUBSURFACE CROSS SLOPES ARE THE SAME AS FINISHED GRADE CROSS SLOPES.
 - 5. SEE CONSTRUCTION AND SUPERELEVATION PLANS FOR PAVEMENT WIDTHS.
 - 6. SILL CURB TO BE USED ANYWHERE SIDEWALK IS AT BACK OF CURB. SEE INTERSECTION AND ADA PLANS FOR LOCATIONS.



- NOTES:
- ① SEE REMOVAL PLANS FOR EXISTING BUILDING LOCATIONS



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Print Name: KYLE F. HARRISON

Date: License #: 53658

STATE AID PROJECT NO. 139-111-007
DESIGNED BY C. FIENUP
CHECKED BY K. HARRISON
COMM. NO. 2214743

STATE PROJECT NO. 4204-40
CITY PROJECT NO. X

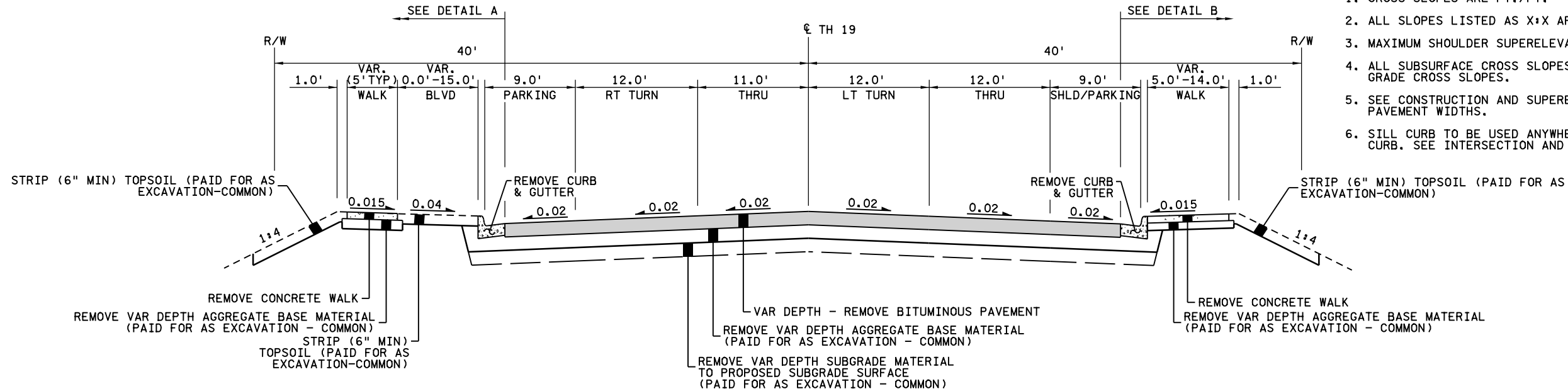


MINNESOTA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SP 4204-40 (TH 19)

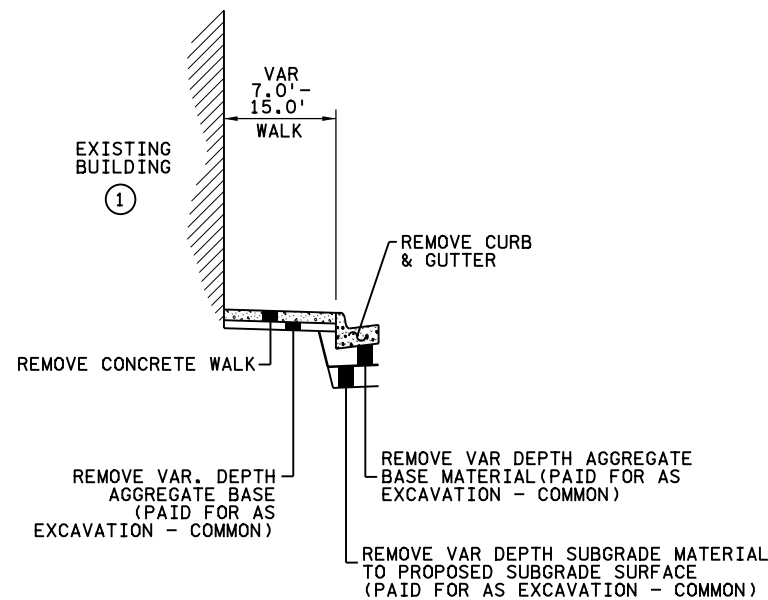
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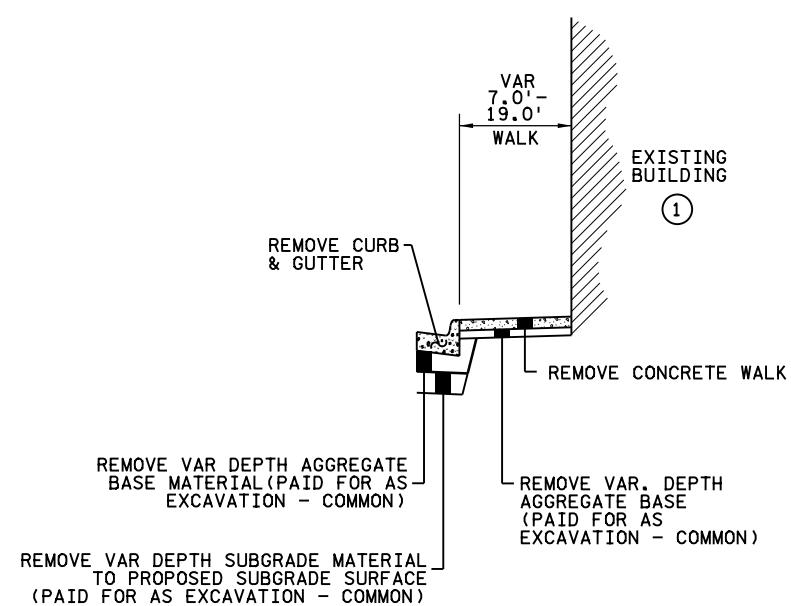
EXISTING TYPICAL SECTION 4
TH 19 STA 758+26.0 R5 TO 768+52.3 R5

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- NOTES:
- ① SEE REMOVAL PLANS FOR EXISTING BUILDING LOCATIONS



DETAIL A
WHEN EXISTING BUILDING PRESENT



DETAIL B
WHEN EXISTING BUILDING PRESENT

NO	DATE	BY	CKD	APPR	REVISION
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Print Name: KYLE F. HARRISON

Date: License #: 53658

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139-111-007
139-112-006
139-115-004
139-122-007
139-124-005

STATE PROJECT NO.
4204-40

CITY PROJECT NO. X

DRAWN BY
J. VAN BECK

DESIGNED BY
C. FIENUP

CHECKED BY
K. HARRISON

COMM. NO. 2214743



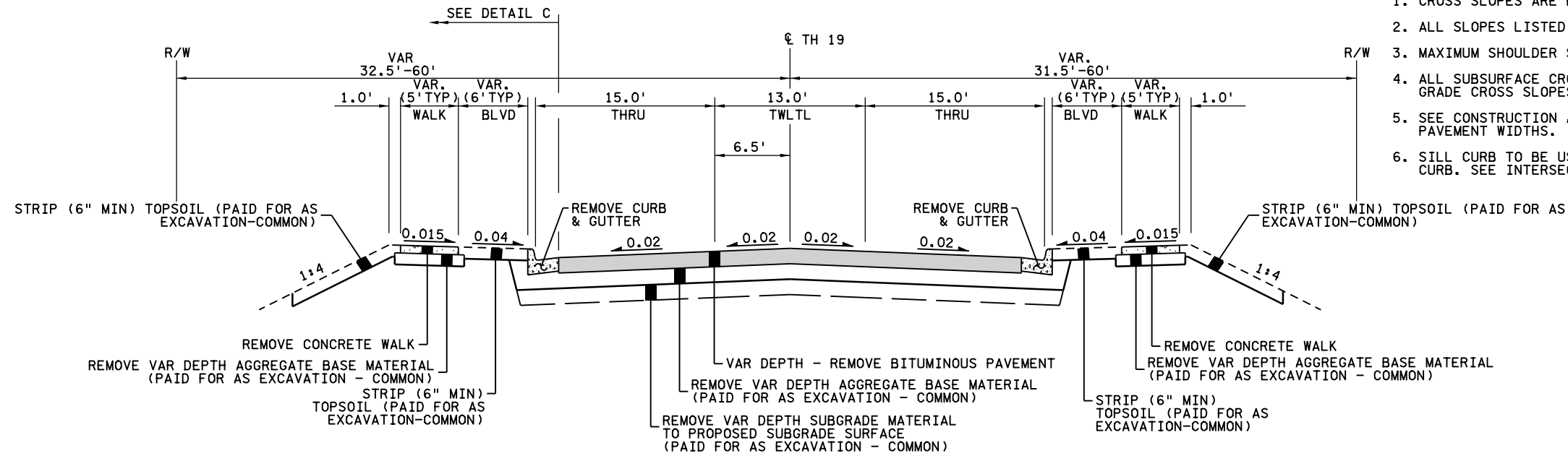
MINNESOTA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SP 4204-40 (TH 19)

SHEET
5
OF
122

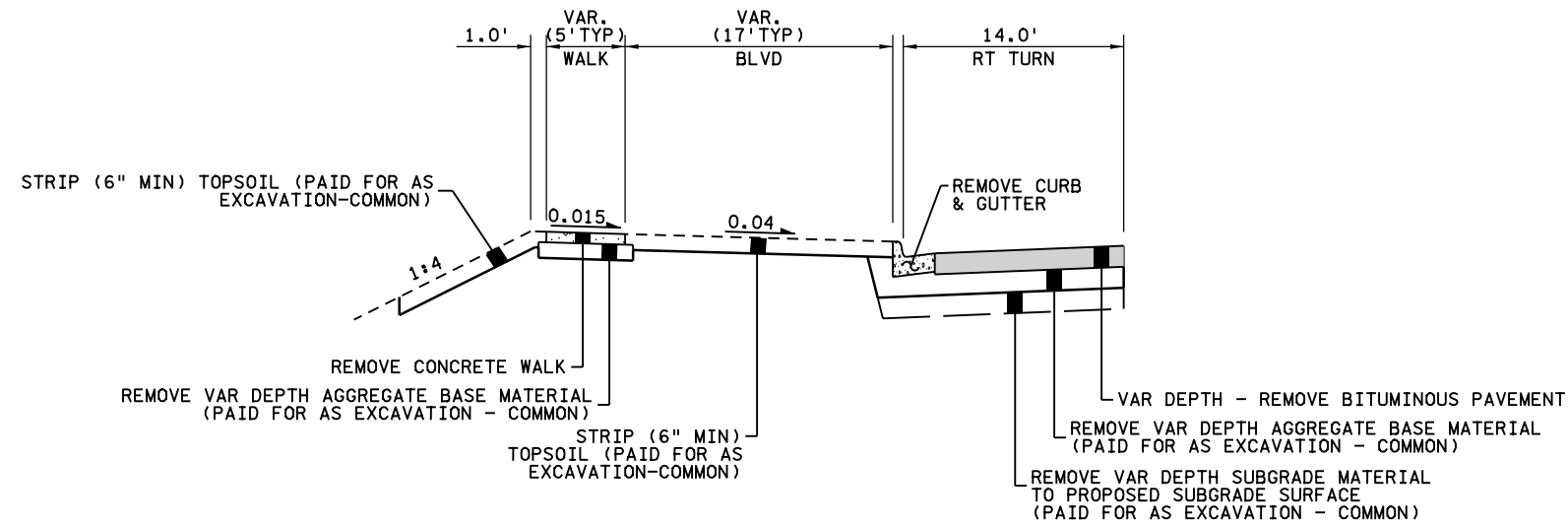
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 - 5. SEE CONSTRUCTION AND SUPERELEVATION PLANS FOR PAVEMENT WIDTHS.
 - 6. SILL CURB TO BE USED ANYWHERE SIDEWALK IS AT BACK OF CURB. SEE INTERSECTION AND ADA PLANS FOR LOCATIONS.



EXISTING TYPICAL SECTION 5
TH 19 STA 768+52.3 R5 TO 778+02.6 R5
TH 19 STA 779+11.0 R5 TO 805+65.3 R7

NOTES:



DETAIL C: RIGHT TURN LANE REMOVAL
TH 19 STA 782+38.7 R5 TO STA 783+26.8 R5 (LT)

NO	DATE	BY	CKD	APPR	REVISION
1					
2					
3					
4					
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6					
7					
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9					
10					

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Date: License #: 53658

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139-112-006
139-115-004
139-122-007
139-124-005

STATE PROJECT NO.
4204-40

CITY PROJECT NO. X

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J. VAN BECK

DESIGNED BY
C. FIENUP

CHECKED BY
K. HARRISON

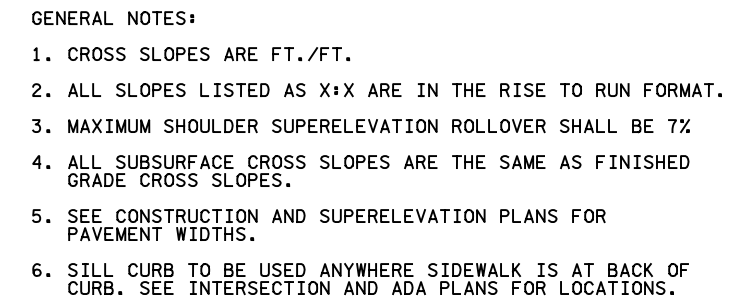
COMM. NO. 2214743



MINNESOTA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SP 4204-40 (TH 19)

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OF
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NOTES:

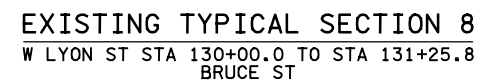
① SEE REMOVAL PLANS FOR EXISTING BUILDING LOCATIONS

② C TH 59 OFFSET 5' RIGHT FROM LANE LINE
C TH 68 OFFSET 6' RIGHT FROM LANE LINE

MINNESOTA DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS
SP 4204-40 (TH 19)

HEET
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OF
122

④ 1' BRUCE ST STA 51+73.0 TO STA 55+40.6 OFFSET
2' LEFT FROM LANE LINE
1' BRUCE ST STA 49+55.9 TO STA 51+73.0 OFFSET
11' LEFT FROM LANE LINE



- EXISTING TYPICAL SECTION 9
WHITNEY ST STA 240+50.0 TO STA 241+89.2
HILL ST STA 250+50.0 TO STA 251+91.8
MINNESOTA ST

NO	DATE	BY	CKD	APPR	REVISION	
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Date License # 53658

STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005
STATE PROJECT NO.
4204-40
CITY PROJECT NO. X

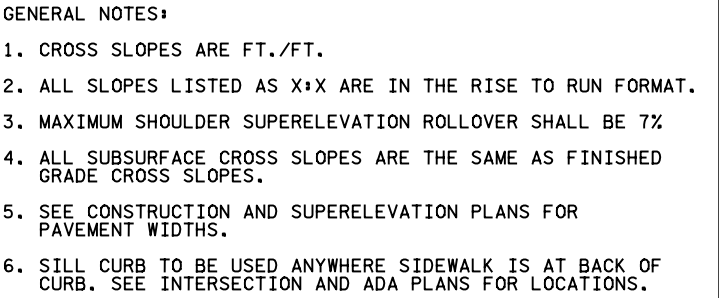
DRAWN BY J. VAN BECK
DESIGNED BY C. FIENUP
CHECKED BY K. HARRISON
COMM. NO. 2214743



MINNESOTA DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS
SP 4204-40 (TH 19)

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122

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NOTES:

③ SEE CONSTRUCTION AND SUPERELEVATION PLANS FOR WIDTH, MATERIAL TYPE, AND LOCATION

PROPOSED TYPICAL SECTION 1
TH 19 STA 725+76.3 R2 TO 740+14.6 R3



DETAIL D
WHEN EXISTING BUILDING PRESENT



DETAIL E
WHEN EXISTING BUILDING PRESENT

No	Date	By	Ckd	Appr	Revision
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Date License # 53658

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STATE PROJECT NO. 4204-40
CITY PROJECT NO. X

DRAWN BY
J. VAN BECK
DESIGNED BY
C. FIENUP
CHECKED BY
K. HARRISON
COMM. NO. 2214743



MINNESOTA DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS
SP 4204-40 (TH 19)

SHEET
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122

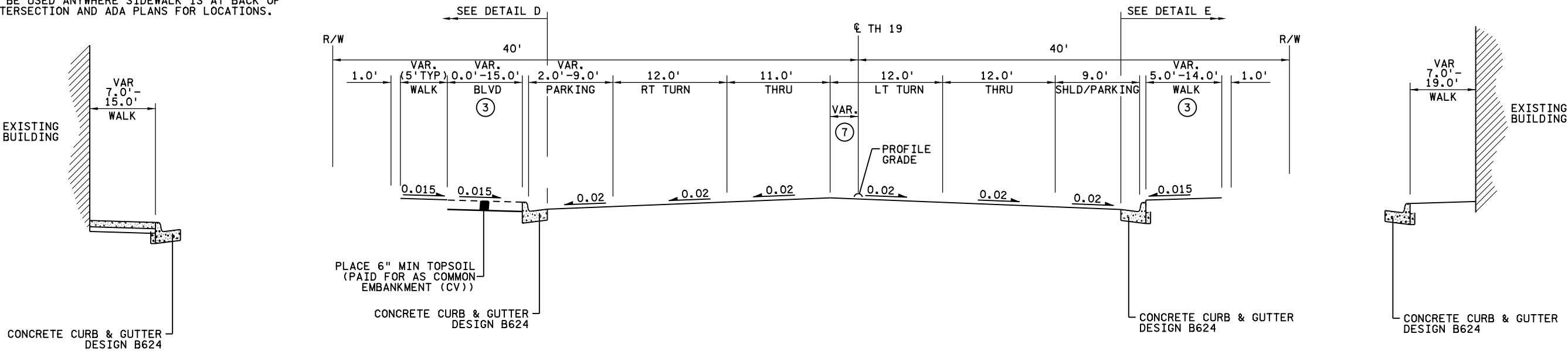
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GENERAL NOTES:

- 1. CROSS SLOPES ARE FT./FT.
- 2. ALL SLOPES LISTED AS X:X ARE IN THE RISE TO RUN FORMAT.
- 3. MAXIMUM SHOULDER SUPERELEVATION ROLLOVER SHALL BE 7%
- 4. ALL SUBSURFACE CROSS SLOPES ARE THE SAME AS FINISHED GRADE CROSS SLOPES.
- 5. SEE CONSTRUCTION AND SUPERELEVATION PLANS FOR PAVEMENT WIDTHS.
- 6. SILL CURB TO BE USED ANYWHERE SIDEWALK IS AT BACK OF CURB. SEE INTERSECTION AND ADA PLANS FOR LOCATIONS.

NOTES:

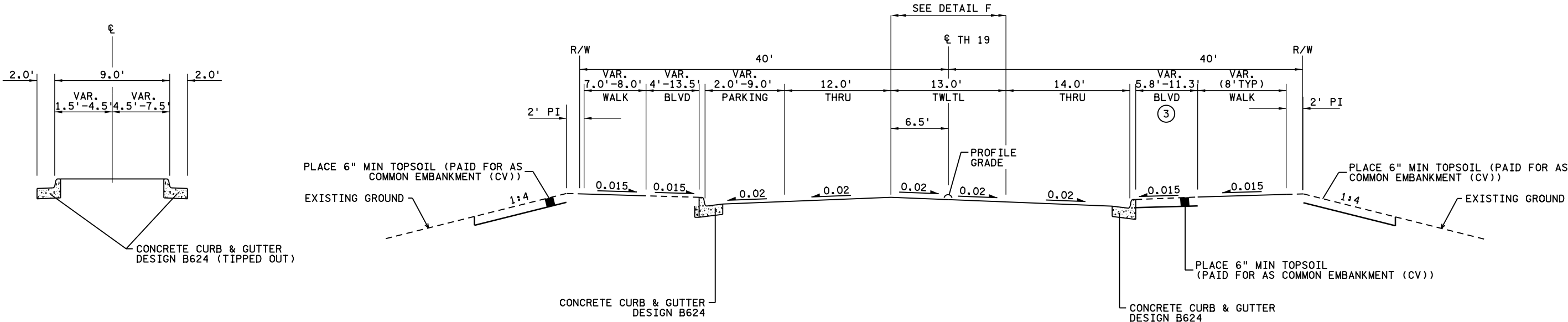
- ③ SEE CONSTRUCTION AND SUPERELEVATION PLANS FOR WIDTH, MATERIAL TYPE, AND LOCATION
- ⑦ CL TH 19 OFFSET 1'-3' LEFT FROM LANE LINE



DETAIL D
WHEN EXISTING BUILDING PRESENT

DETAIL E
WHEN EXISTING BUILDING PRESENT

PROPOSED TYPICAL SECTION 4
TH 19 STA 758+26.0 R5 TO 770+92.7 R5



DETAIL F: MID-BLOCK CROSSINGS
TH 19 STA 771+24.4 TO STA 771+78.6
TH 19 STA 776+94.8 TO STA 777+96.9
TH 19 STA 782+38.1 TO STA 783+21.9
TH 19 STA 784+86.9 TO STA 785+32.9
TH 19 STA 790+33.3 TO STA 790+87.3

PROPOSED TYPICAL SECTION 5
TH 19 STA 770+92.7 R5 TO 778+02.6 R5

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Date: License #: 53658

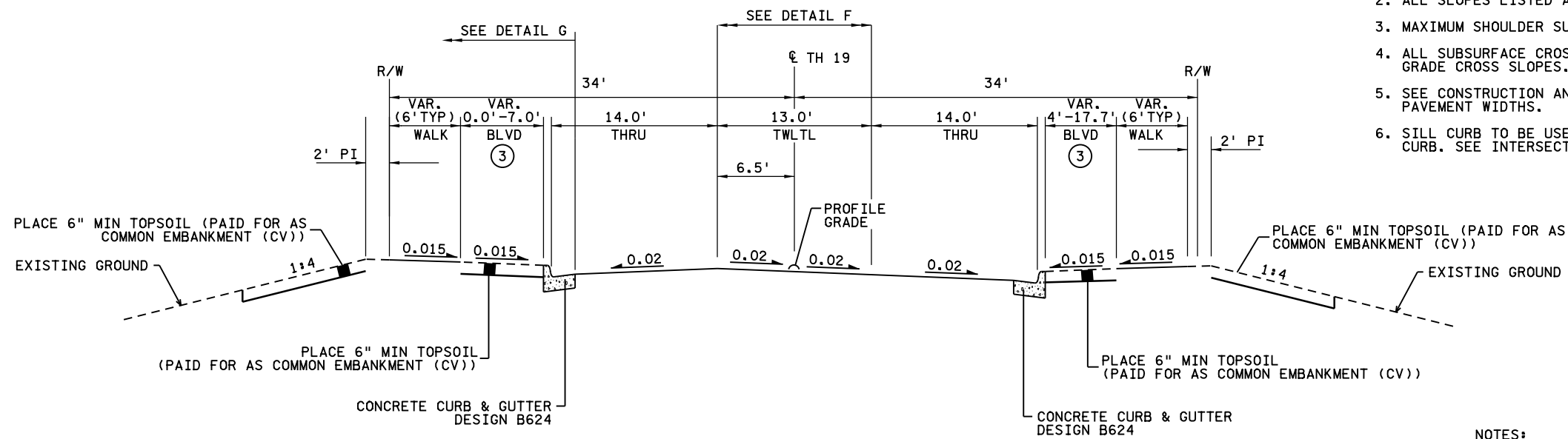
STATE AID PROJECT NO. 139-111-007
DESIGNED BY J. VAN BECK
C. FIENUP
CHECKED BY K. HARRISON
COMM. NO. 2214743
STATE PROJECT NO. 4204-40
CITY PROJECT NO. X



MINNESOTA DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS
SP 4204-40 (TH 19)

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OF
122

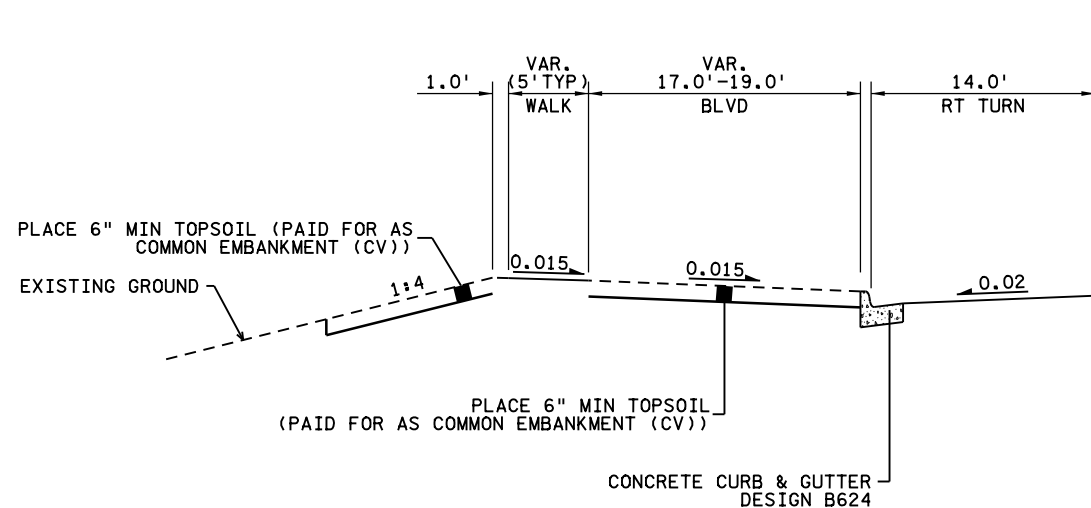
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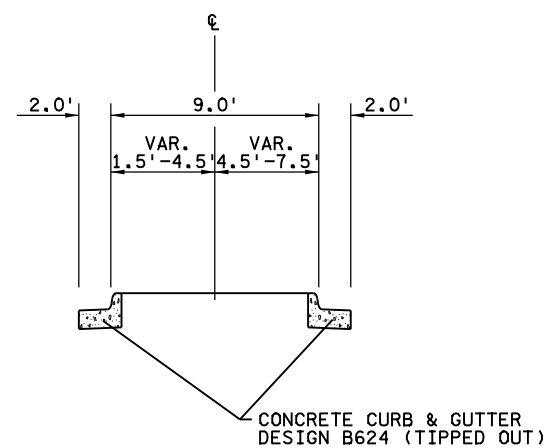
- GENERAL NOTES:
1. CROSS SLOPES ARE FT./FT.
 2. ALL SLOPES LISTED AS X:X ARE IN THE RISE TO RUN FORMAT.
 3. MAXIMUM SHOULDER SUPERELEVATION ROLLOVER SHALL BE 7%.
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- NOTES:
- ③ SEE CONSTRUCTION AND SUPERELEVATION PLANS FOR WIDTH, MATERIAL TYPE, AND LOCATION

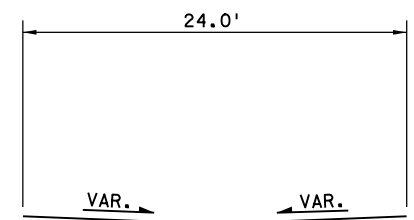
PROPOSED TYPICAL SECTION 6
TH 19 STA 779+11.0 R5 TO 802+66.9 R7



DETAIL G: RIGHT TURN LANE
TH 19 STA 782+38.7 R5 TO STA 783+26.8 R5 (LT)



DETAIL F: MID-BLOCK CROSSINGS
TH 19 STA 771+24.4 TO STA 771+78.6
TH 19 STA 776+94.8 TO STA 777+96.9
TH 19 STA 782+38.1 TO STA 783+21.9
TH 19 STA 784+86.9 TO STA 785+32.9
TH 19 STA 790+33.3 TO STA 790+87.3



DETAIL: ALLEY
TH 19 STA 772+13.2
TH 19 STA 772+14.0
TH 19 STA 775+70.4
TH 19 STA 775+71.8
TH 19 STA 791+09.9

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NO	DATE	BY	CKD	APPR	REVISION

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Date: License #: 53658

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139-111-007
139-112-006
139-115-004
139-122-007
139-124-005

STATE PROJECT NO.
4204-40

CITY PROJECT NO. X

DRAWN BY
J. VAN BECK

DESIGNED BY
C. FIENUP

CHECKED BY
K. HARRISON

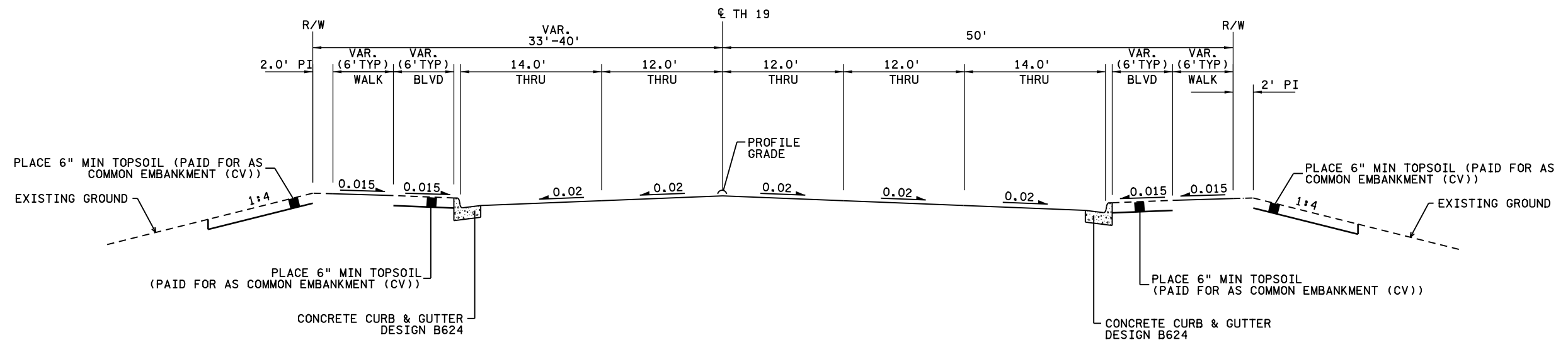
COMM. NO. 2214743



MINNESOTA DEPARTMENT OF TRANSPORTATION

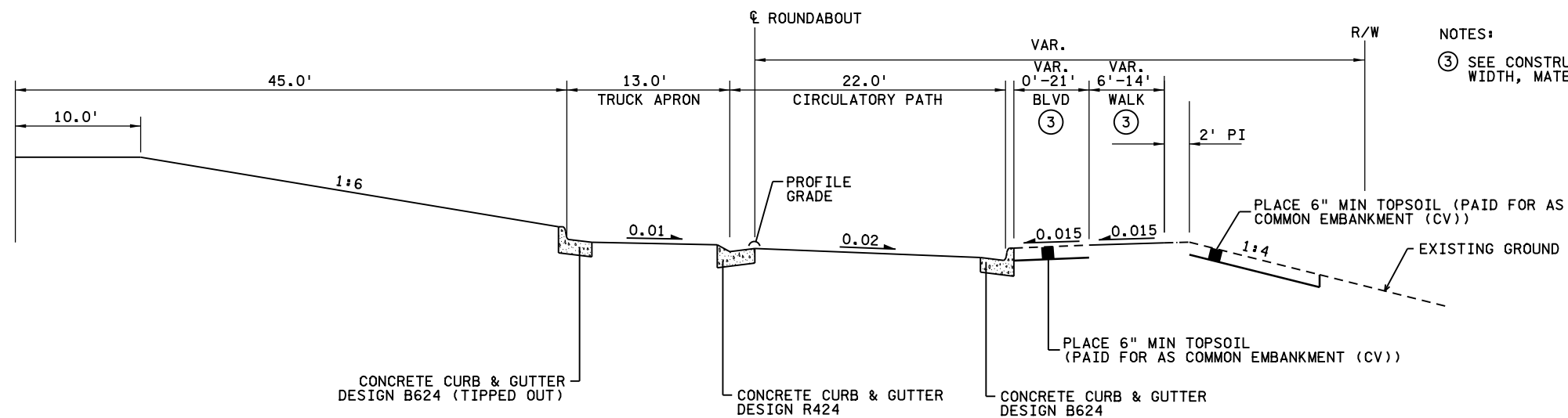
TYPICAL SECTIONS
SP 4204-40 (TH 19)

SHEET
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OF
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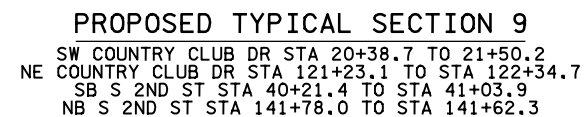
PROPOSED TYPICAL SECTION 7
TH 19 STA 802+66.9 R7 TO 805+65.3 R7

- GENERAL NOTES:
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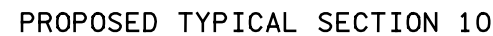


PROPOSED TYPICAL SECTION 8
ROUNDBOUT (TH 19 STA 743+32.0 R3 TO STA 749+14.6 R5)

						I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.		STATE AID PROJECT NO. 139-111-007 139-112-006 139-115-004 139-122-007 139-124-005		DRAWN BY J. VAN BECK DESIGNED BY C. FIENUP CHECKED BY K. HARRISON			MINNESOTA DEPARTMENT OF TRANSPORTATION		SHEET 12 OF 122
						Print Name: KYLE F. HARRISON		STATE PROJECT NO. 4204-40					TYPICAL SECTIONS SP 4204-40 (TH 19)		
NO DATE BY CKD APPR REVISION						Date License # 53658		CITY PROJECT NO. X		COMM. NO. 2214743					
cd420440_ts07.dgn															



- NOTES:
- ③ SEE CONSTRUCTION AND SUPERELEVATION PLANS FOR WIDTH, MATERIAL TYPE, AND LOCATION

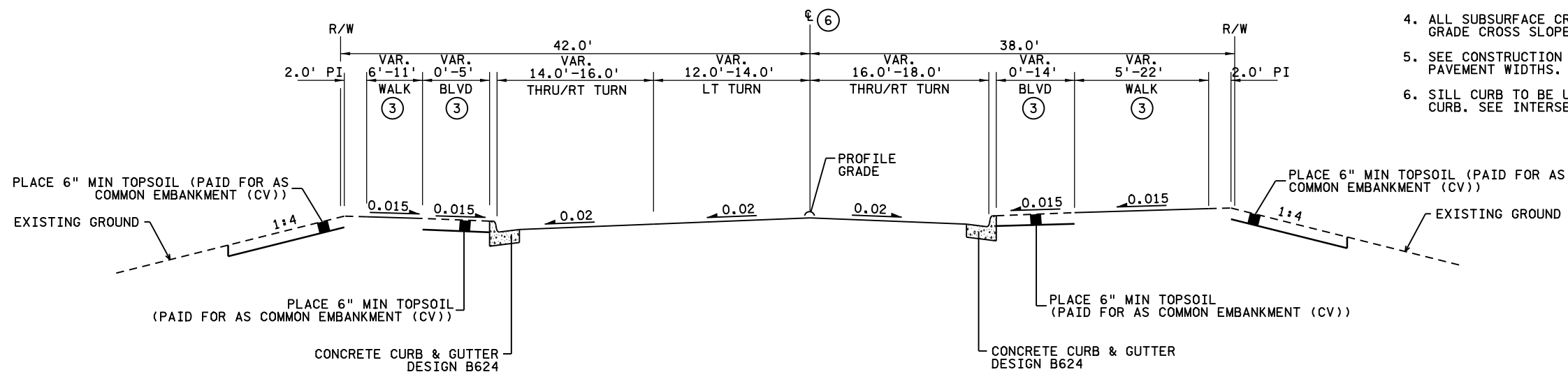


S 4TH ST
W GREELEY ST
W LYON ST STA 150+99.7 TO STA 152+00.0
W REDWOOD ST
W MARSHALL ST
HIGH ST
WHITNEY ST STA 241+89.2 TO STA 242+93.4
HILL ST STA 251+91.8 TO STA 253+03.0

						I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.		STATE AID PROJECT NO. 139-111-007 139-112-006 139-115-004 139-122-007 139-124-005		DRAWN BY J. VAN BECK DESIGNED BY C. FIENUP CHECKED BY K. HARRISON			MINNESOTA DEPARTMENT OF TRANSPORTATION		SHEET 13 OF 122
						Print Name: KYLE F. HARRISON		STATE PROJECT NO. 4204-40					TYPICAL SECTIONS SP 4204-40 (TH 19)		
NO DATE BY CKD APPR REVISION						Date License # 53658		CITY PROJECT NO. X		COMM. NO. 2214743					
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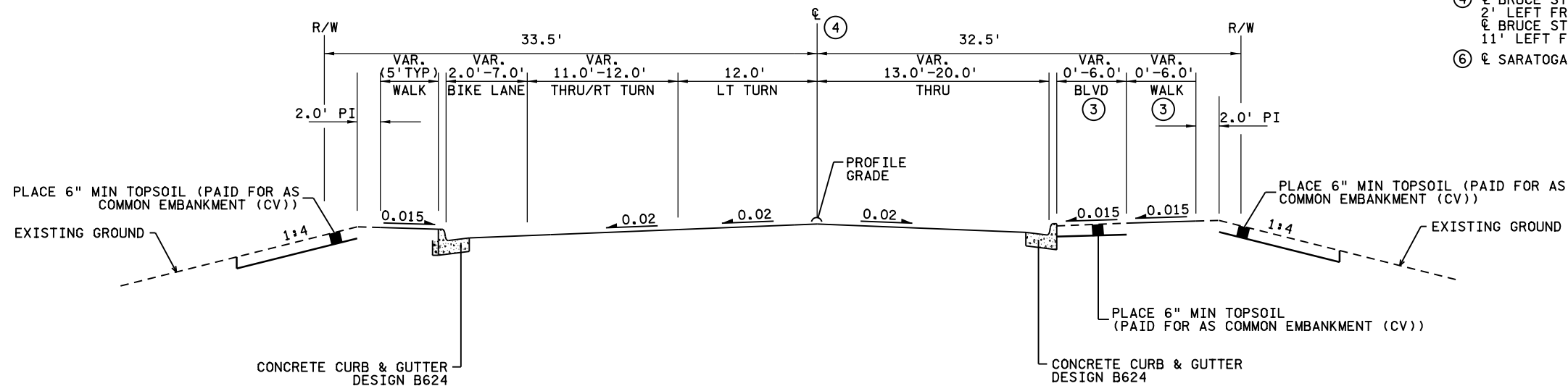
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- GENERAL NOTES:
1. CROSS SLOPES ARE FT./FT.
 2. ALL SLOPES LISTED AS X:X ARE IN THE RISE TO RUN FORMAT.
 3. MAXIMUM SHOULDER SUPERELEVATION ROLLOVER SHALL BE 7%
 4. ALL SUBSURFACE CROSS SLOPES ARE THE SAME AS FINISHED GRADE CROSS SLOPES.
 5. SEE CONSTRUCTION AND SUPERELEVATION PLANS FOR PAVEMENT WIDTHS.
 6. SILL CURB TO BE USED ANYWHERE SIDEWALK IS AT BACK OF CURB. SEE INTERSECTION AND ADA PLANS FOR LOCATIONS.



PROPOSED TYPICAL SECTION 13
W SARATOGA ST
W LYON ST WEST STA 130+00.0 TO STA 131+25.8

- NOTES:
- ③ SEE CONSTRUCTION AND SUPERELEVATION PLANS FOR WIDTH, MATERIAL TYPE, AND LOCATION
 - ④ ④ BRUCE ST STA 51+73.0 TO STA 55+40.6 OFFSET 2' LEFT FROM LANE LINE
 - ④ BRUCE ST STA 49+55.9 TO STA 51+73.0 OFFSET 11' LEFT FROM LANE LINE
 - ⑥ ⑥ SARATOGA OFFSET 2'-10' LEFT FROM LANE LINE



PROPOSED TYPICAL SECTION 14
BRUCE ST

NO	DATE	BY	CKD	APPR	REVISION
1	08/20/2022	PL	06/05/21	4000	14743\TechData\CADDes\gn\PlansCV\Ina\PI\anC\cd420440._ts14.dgn

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Print Name: KYLE F. HARRISON

Date: License #: 53658

STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005

STATE PROJECT NO.
4204-40

CITY PROJECT NO. X

DRAWN BY
J. VAN BECK

DESIGNED BY
C. FIENUP

CHECKED BY
K. HARRISON

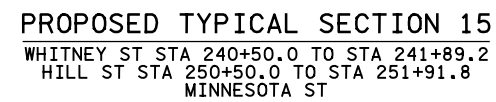
COMM. NO. 2214743



MINNESOTA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SP 4204-40 (TH 19)

SHEET
15
OF
122



WHITNEY ST STA 240+50.0 TO STA 241+89.2
HILL ST STA 250+50.0 TO STA 251+91.8
MINNESOTA ST

1. CROSS SLOPES ARE FT./FT.
2. ALL SLOPES LISTED AS X:X ARE IN THE RISE TO RUN FORMAT.
3. MAXIMUM SHOULDER SUPERELEVATION ROLLOVER SHALL BE 7%
4. ALL SUBSURFACE CROSS SLOPES ARE THE SAME AS FINISHED GRADE CROSS SLOPES.
5. SEE CONSTRUCTION AND SUPERELEVATION PLANS FOR PAVEMENT WIDTHS.
6. SILL CURB TO BE USED ANYWHERE SIDEWALK IS AT BACK OF CURB. SEE INTERSECTION AND ADA PLANS FOR LOCATIONS.

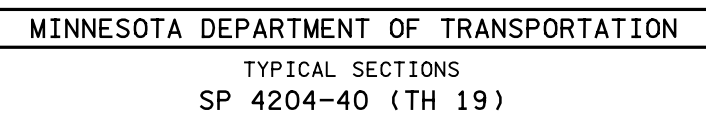
③ SEE CONSTRUCTION AND SUPERELEVATION PLANS FOR
WIDTH, MATERIAL TYPE, AND LOCATION

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Print Name: KYLE F. HARRISON

Date License # 53658

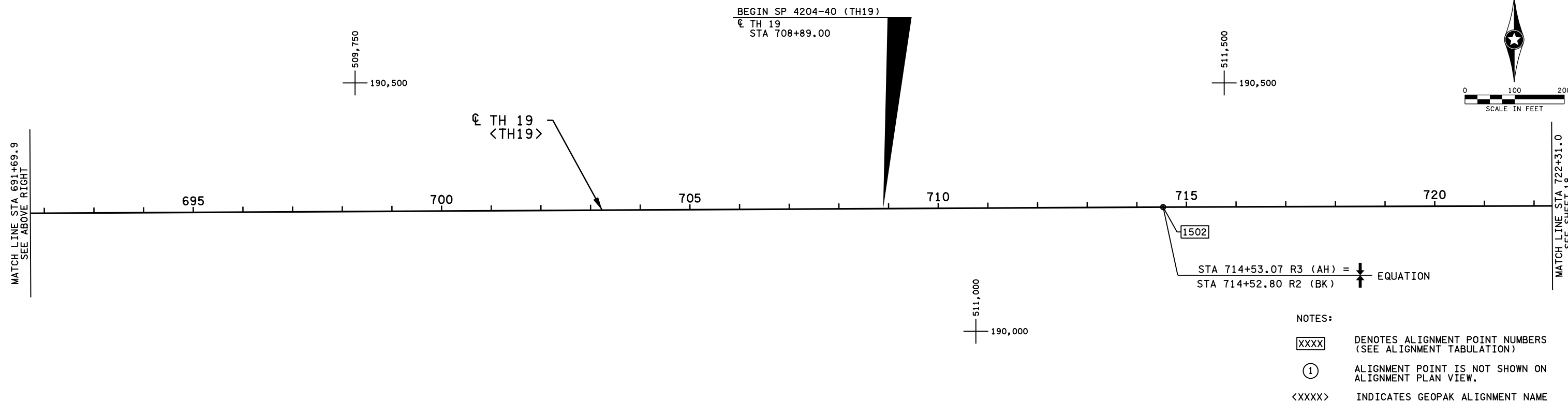
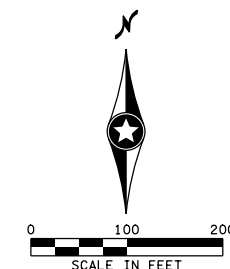
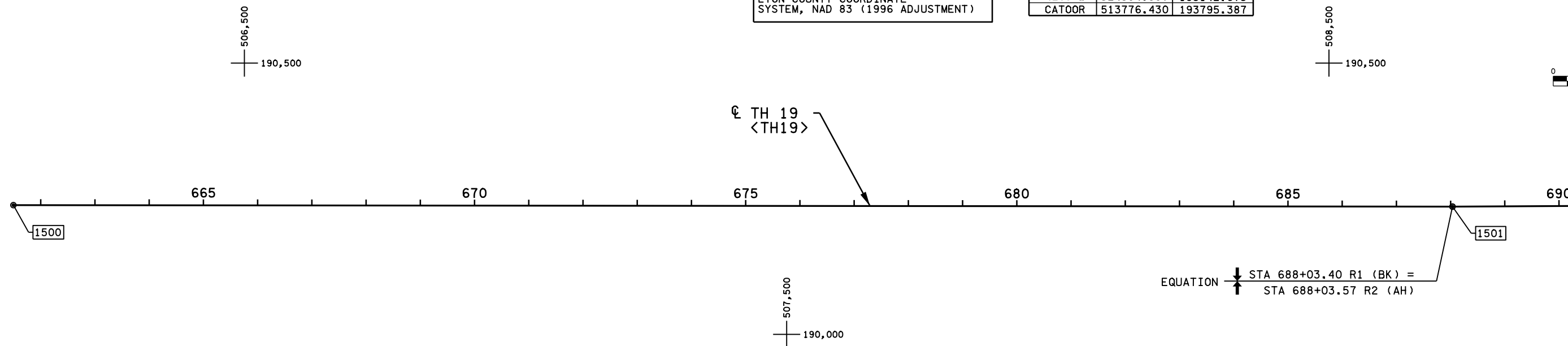
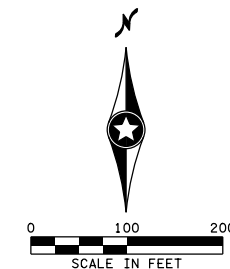
DRAWN BY J. VAN BECK
DESIGNED BY C. FIENUP
CHECKED BY K. HARRISON
COMM. NO. 2214743



SHEET
16
OF
122

HORIZONTAL CONTROL
HORIZONTAL CONTROL IS BASED ON
LYON COUNTY COORDINATE
SYSTEM, NAD 83 (1996 ADJUSTMENT)

CONTROL POINTS (MNDOT)		
PT NAME	X	Y
4205 B	524384.987	193142.675
CAT00R	513776.430	193795.387



N0	DATE	BY	CKD	APPR	REVISION
cd420440_a101.dgn					

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Date License # 53658

STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005
STATE PROJECT NO.
4204-40
CITY PROJECT NO. X

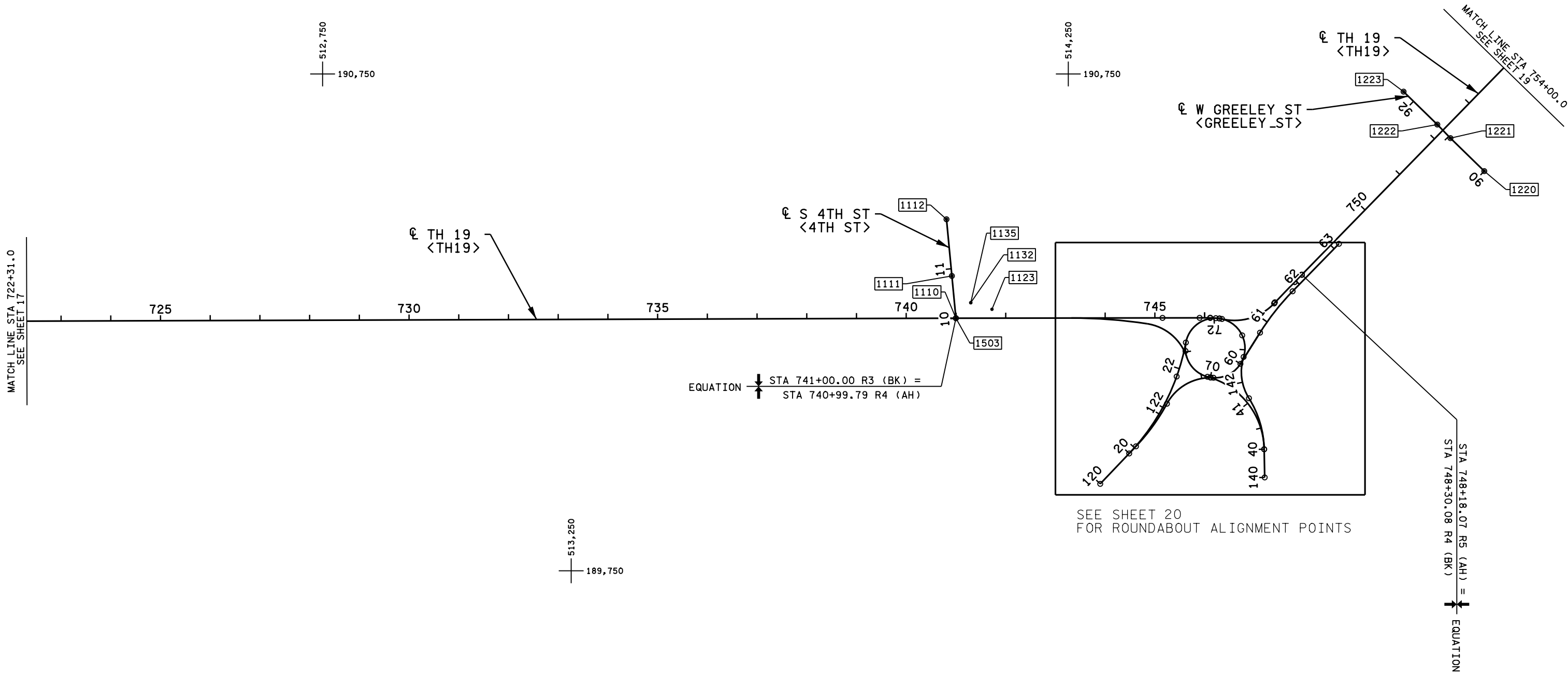
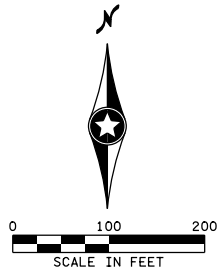
DRAWN BY J. VAN BECK
DESIGNED BY C. FIENUP
CHECKED BY K. HARRISON
COMM. NO. 2214743



MINNESOTA DEPARTMENT OF TRANSPORTATION

ALIGNMENT PLAN
SP 4204-40 (TH 19)

SHEET
17
OF
122



NO	DATE	BY	CKD	APPR	REVISION
od420440_d102.dgn					

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Print Name: KYLE F. HARRISON

Date: License #: 53658

STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005

STATE PROJECT NO.
4204-40

CITY PROJECT NO. X

DRAWN BY
J. VAN BECK

DESIGNED BY
C. FIENUP

CHECKED BY
K. HARRISON

COMM. NO. 2214743

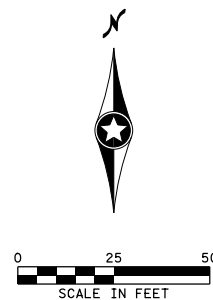
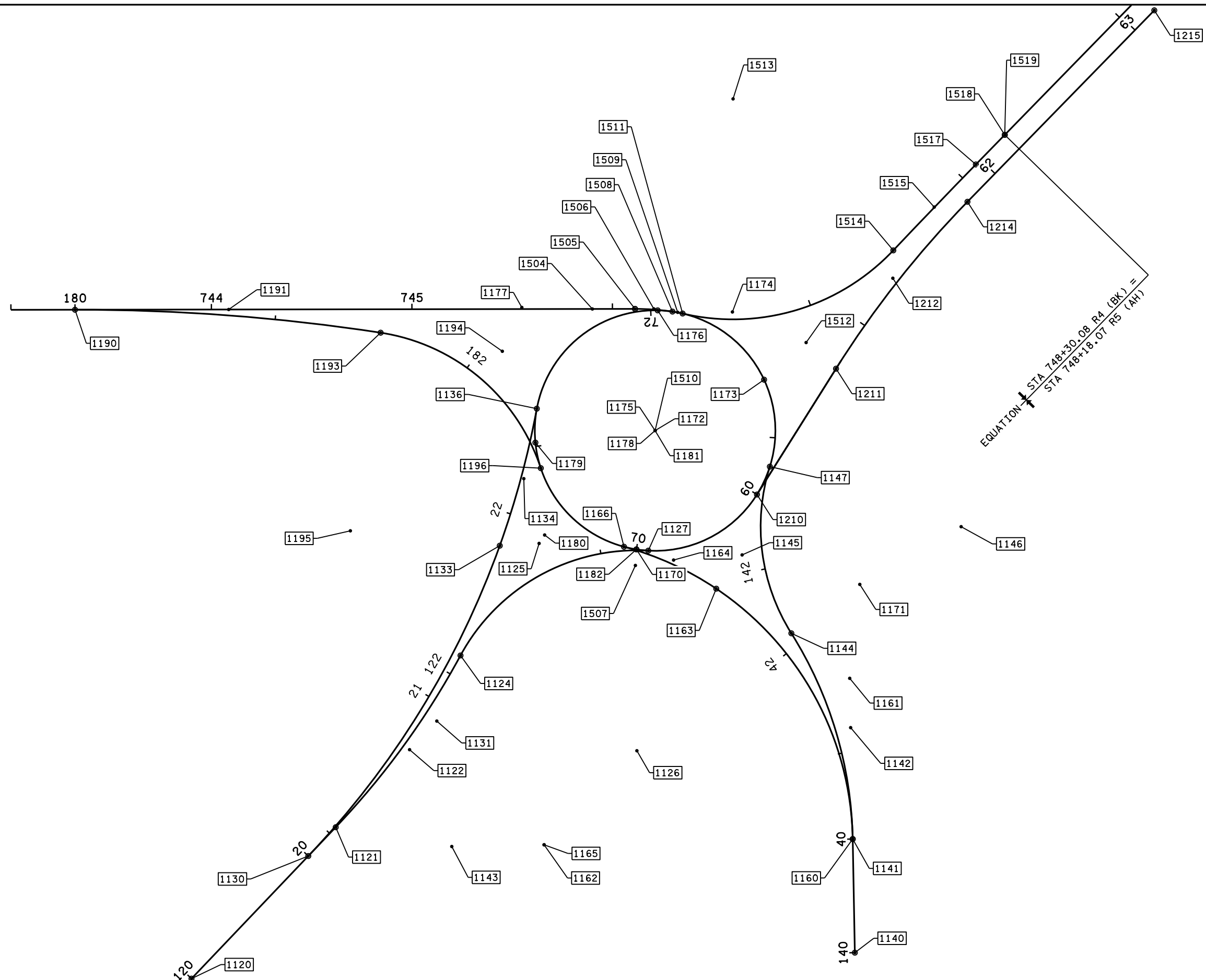


MINNESOTA DEPARTMENT OF TRANSPORTATION

ALIGNMENT PLAN
SP 4204-40 (TH 19)

SHEET
18
OF
122

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NO	DATE	BY	CKD	APPR	REVISION
od420440_a105.dgn					

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Date License # 53658

STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005
STATE PROJECT NO.
4204-40
CITY PROJECT NO. X

DRAWN BY J. VAN BECK
DESIGNED BY C. FIENUP
CHECKED BY K. HARRISON
COMM. NO. 2214743



MINNESOTA DEPARTMENT OF TRANSPORTATION

ALIGNMENT PLAN
SP 4204-40 (TH 19)

SHEET
20
OF
122

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NOTES:

① ALIGNMENT POINT IS NOT SHOWN ON ALIGNMENT PLAN VIEW.

<XXXX> INDICATES GEOPAK ALIGNMENT NAME.

						I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota. Print Name: KYLE F. HARRISON	STATE AID PROJECT NO. 139-111-007 139-112-006 139-115-004 139-122-007 139-124-005	DRAWN BY J. VAN BECK DESIGNED BY C. FIENUP CHECKED BY K. HARRISON		MINNESOTA DEPARTMENT OF TRANSPORTATION	SHEET
										ALIGNMENT PLANS AND TABULATIONS SP 4204-40 (TH 19)	21 OF 122
NO	DATE	BY	CHKD	APPR	REVISION	Date _____ License # 53658	STATE PROJECT NO. 4204-40 CITY PROJECT NO. X	COMM. NO. 2214743			

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ALIGNMENT TABULATION										
POINT NUMBER	POINT	STATION	CIRCULAR CURVE DATA					COORDINATES		AZIMUTH
			DELTA	DEGREE	RADIUS	TANGENT	LENGTH			
			SPIRAL CURVE DATA							
			ANGLE (θs)	DEGREE	ST	LT	LS			
℄ W REDWOOD ST <REDWOOD_ST>										
		℄ W REDWOOD ST								
1270	POT	170+00.000						516,620.5898	192,087.1832	
1271	POT	172+81.801						516,418.8786	192,283.9690	
℄ EB TH 19 <EBTH19>										
		℄ EB TH 19								
1190	PC	180+00.000						514,256.1035	190,258.7213	89° 54' 54.98"
1191	PI	180+76.650	8° 45' 58.59" RT	5° 43' 46.48"	1,000.000'	76.650'	153.000'	514,332.7531	190,258.8347	PI
1192	CC							514,257.5822	189,258.7224	
1193	PCC	181+53.000						514,408.5247	190,247.2650	98° 40' 53.57"
1194	PI	182+14.406	63° 06' 15.67" RT	57° 17' 44.81"	100.000'	61.405'	110.138'	514,469.2265	190,237.9963	PI
1195	CC							514,393.4304	190,148.4107	
1196	PT	182+63.138						514,488.4200	190,179.6676	161° 47' 09.24"
℄ W MARSHALL ST <W_MARSHALL_ST_N>										
		℄ W MARSHALL ST								
1280	POT	190+00.000						516,764.9927	192,442.3456	
1281	POT	192+00.841						516,622.5989	192,583.9827	
℄ W MARSHALL ST <W_MARSHALL_ST_S>										
		℄ W MARSHALL ST								
1290	POT	200+00.000						516,913.3404	192,308.0020	
1291	POT	200+90.118						516,848.8345	192,370.9327	
1292	POT	202+00.000						516,770.1820	192,447.6647	
℄ HIGH ST <HIGH_ST>										
		℄ HIGH ST								
1310	POT	230+00.000						517,772.3869	192,829.3177	
1311	POT	233+07.322						517,781.9679	193,136.4904	
℄ WHITNEY ST <WHITNEY_ST>										
		℄ WHITNEY ST								
1200	POT	240+00.000						518,135.0453	192,723.5923	
1201	POT	243+44.587						518,130.5469	193,068.1499	
℄ HILL ST <HILL_ST>										
		℄ HILL ST								
1300	POT	250+00.000						518,515.2831	192,721.1257	
1301	POT	253+53.006						518,510.6748	193,074.1018	

ALIGNMENT TABULATION										
POINT NUMBER	POINT	STATION	CIRCULAR CURVE DATA					COORDINATES		AZIMUTH
			DELTA	DEGREE	RADIUS	TANGENT	LENGTH			
			SPIRAL CURVE DATA					X	Y	
			ANGLE (θs)	DEGREE	ST	LT	LS			
℄ S MINNESOTA ST <MINNESOTA_ST>										
		℄ S MINNESOTA ST								
1320	POT	260+00.000						518,894.8427	192,721.8453	
1321	POT	261+93.040						518,892.3227	192,914.8685	
		-----	-----	-----	-----	-----	-----	-----	-----	-----
℄ TH 59 <INP59>										
		℄ TH 59								
2100	POT	779+00.000						516,005.7870	191,660.7790	
2101	POT	813+38.255	-----	-----	-----	-----	-----	518,467.3255	189,260.2741	-----
2102	POT	813+40.706						518,469.0371	189,262.0292	
2103	POT	813+41.255						518,469.4201	189,262.4218	
℄ TH 68 <INP68>										
		℄ TH 68								
2200	POT	965+00.000						514,568.2778	193,061.5860	
2201	POT	976+40.051						515,384.7711	192,265.9392	
2202	POT	985+07.160						516,005.7870	191,660.7790	
		-----	-----	-----	-----	-----	-----	-----	-----	-----

NOTES:
① ALIGNMENT POINT IS NOT SHOWN ON
ALIGNMENT PLAN VIEW.
<XXXX> INDICATES GEOPAK ALIGNMENT NAME.

NO	DATE	BY	CKD	APPR	REVISION
cd420440_atb03.dgn					

I hereby certify that this plan, specification, or report
was prepared by me or under my direct supervision and
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the laws of the State of Minnesota.
Print Name: KYLE F. HARRISON
Date License # 53658

STATE AID PROJECT NO.
139-11-007
139-112-006
139-115-004
139-122-007
139-124-005
STATE PROJECT NO.
4204-40
CITY PROJECT NO. X

DRAWN BY
J. VAN BECK
DESIGNED BY
C. FIENUP
CHECKED BY
K. HARRISON
COMM. NO. 2214743



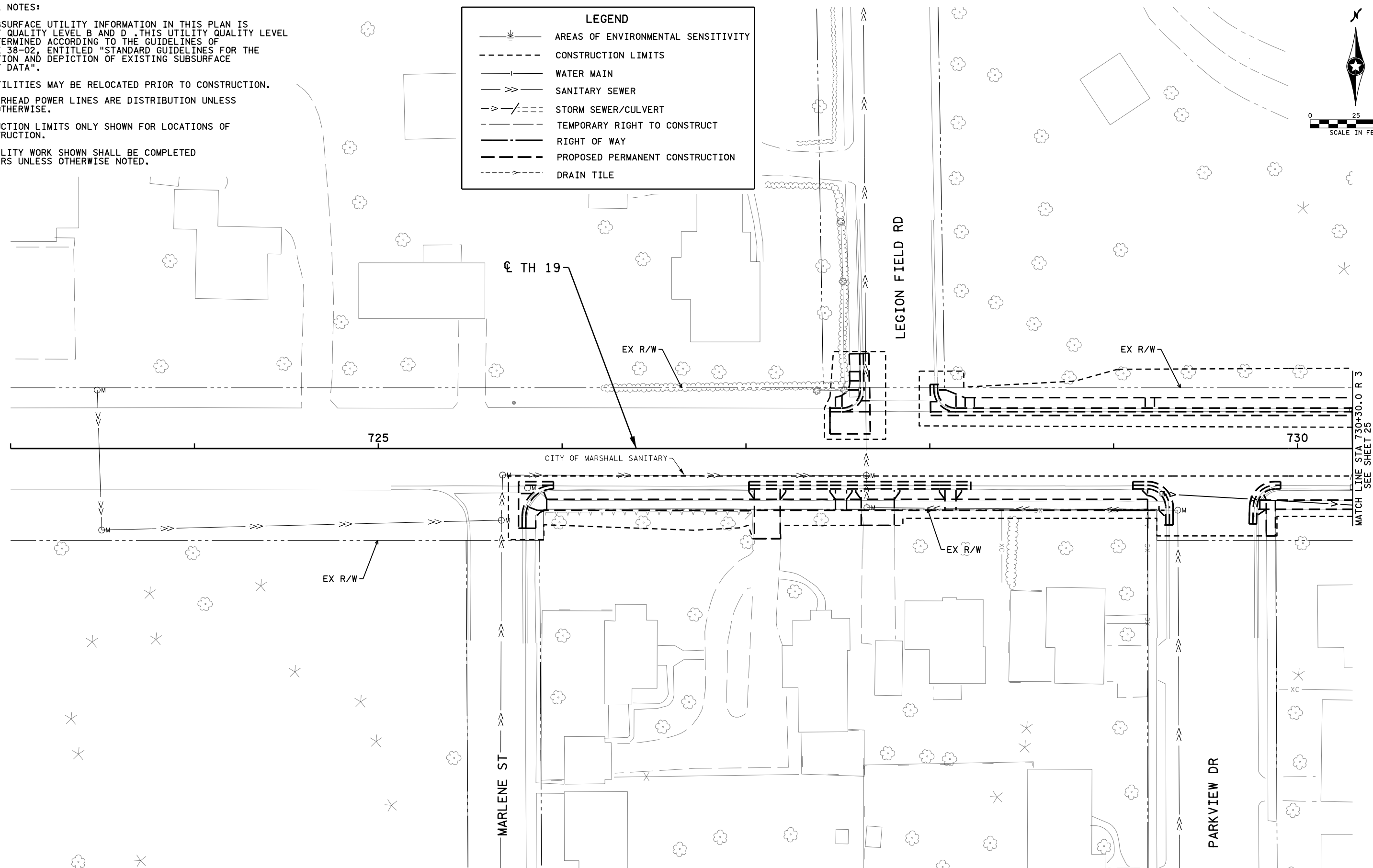
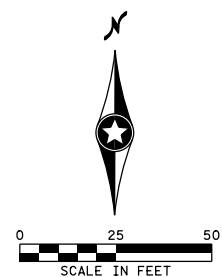
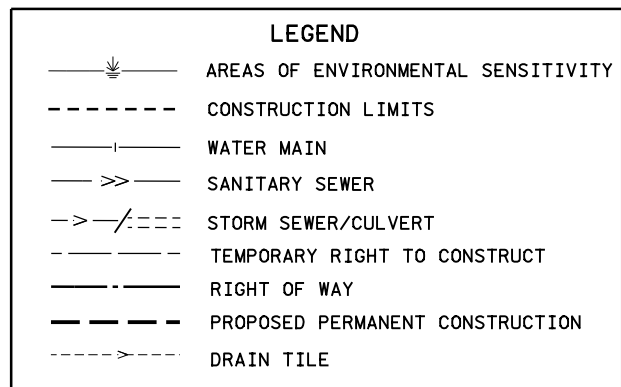
MINNESOTA DEPARTMENT OF TRANSPORTATION		SHEET 23 OF 122
ALIGNMENT PLANS AND TABULATIONS		
SP 4204-40 (TH 19)		

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL B AND D .THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".

ALL OVERHEAD POWER LINES ARE DISTRIBUTION UNLESS NOTED OTHERWISE.

CONSTRUCTION LIMITS ONLY SHOWN FOR LOCATIONS OF
RECONSTRUCTION.

ALL UTILITY WORK SHOWN SHALL BE COMPLETED
BY OTHERS UNLESS OTHERWISE NOTED.



No	Date	By	Ckd	Appr	Revision
cd420440_top01.dgn					

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Print Name: KYLE F. HARRISON

Date License # 53658

STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005
STATE PROJECT NO.
4204-40
CITY PROJECT NO. X

DRAWN BY J. VAN BECK
DESIGNED BY C. FIENUP
CHECKED BY K. HARRISON
COMM. NO. 2214743



MINNESOTA DEPARTMENT OF TRANSPORTATION
INPLACE TOPOGRAPHY, UTILITY AND RIGHT OF WAY PLANS
SP 4204-40 (TH 19)

SHEET
24
OF
122

LEGEND

AREAS OF ENVIRONMENTAL SENSITIVITY

CONSTRUCTION LIMITS

WATER MAIN

SANITARY SEWER

STORM SEWER/CULVERT

TEMPORARY RIGHT TO CONSTRUCT

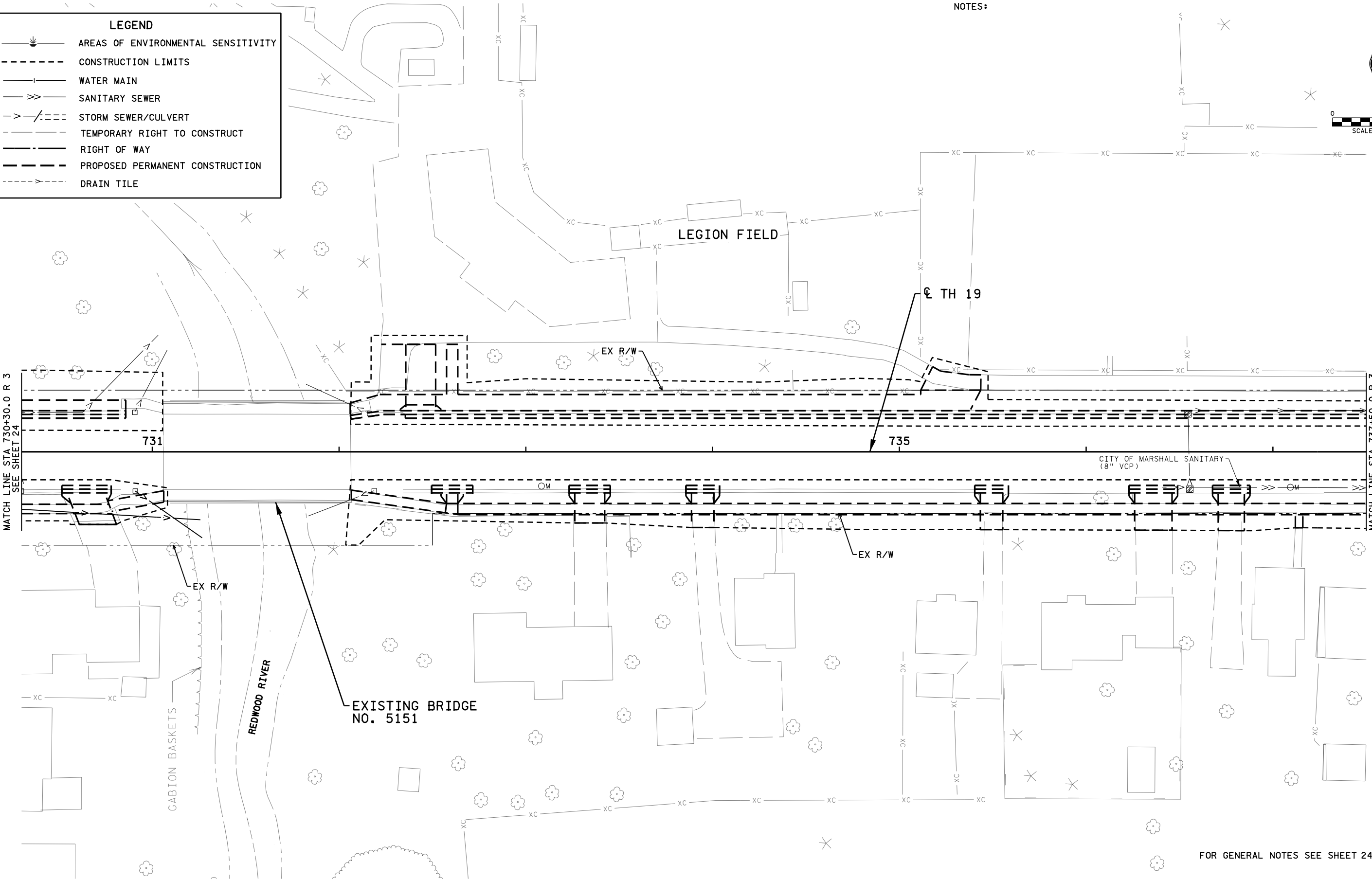
RIGHT OF WAY

PROPOSED PERMANENT CONSTRUCTION

DRAIN TILE

NOTES:

SCALE IN FEET



FOR GENERAL NOTES SEE SHEET 24

SHEET 2 OF 13 SHEETS

NO	DATE	BY	CKD	APPR	REVISION
od420440_top02.dgn					

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Print Name: KYLE F. HARRISON

Date: License #: 53658

STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005

STATE PROJECT NO.
4204-40

CITY PROJECT NO. X

DRAWN BY
J. VAN BECK

DESIGNED BY
C. FIENUP

CHECKED BY
K. HARRISON

COMM. NO. 2214743



MINNESOTA DEPARTMENT OF TRANSPORTATION

INPLACE TOPOGRAPHY, UTILITY AND RIGHT OF WAY PLANS

SP 4204-40 (TH 19)

SHEET

25

OF

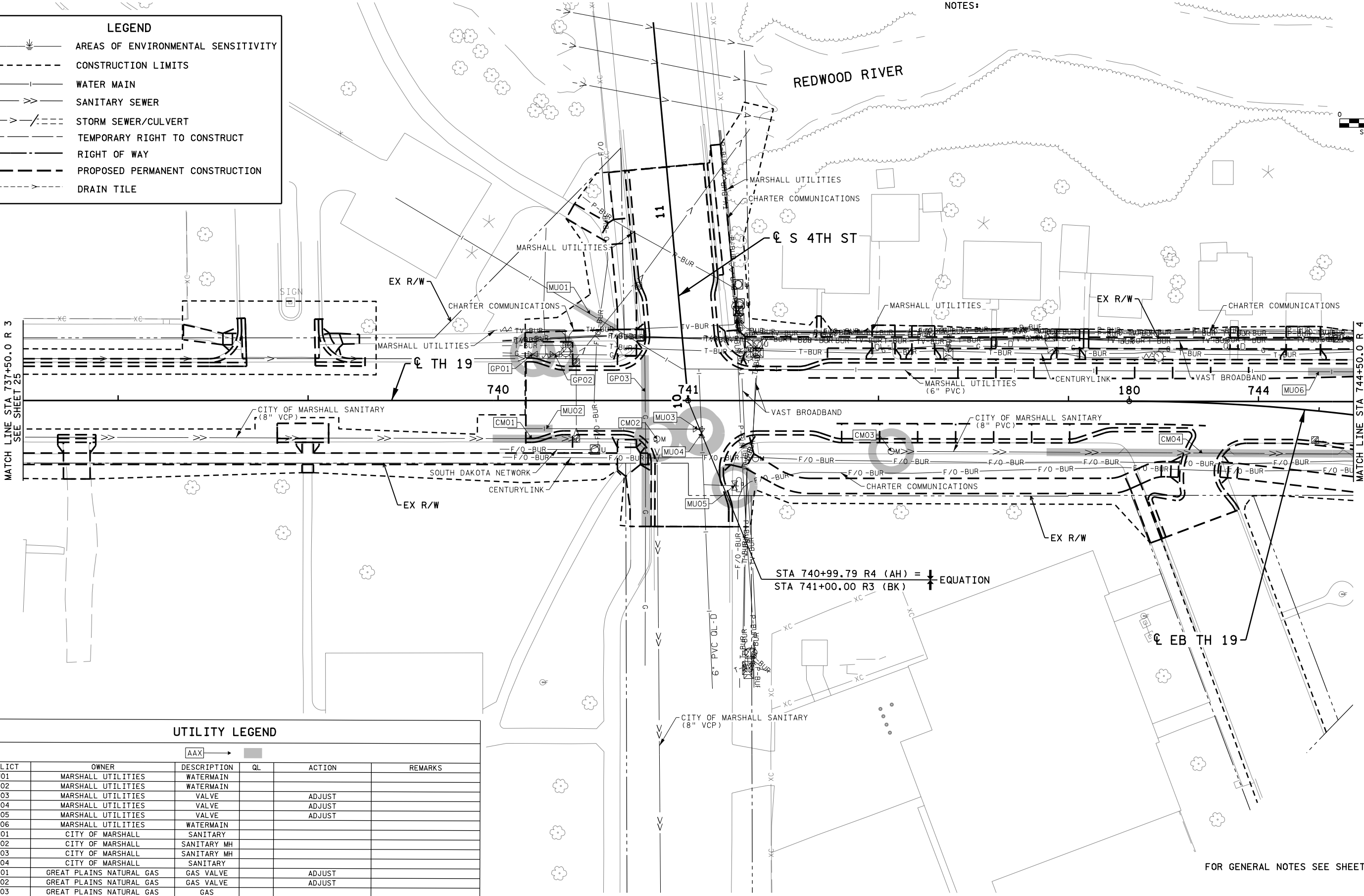
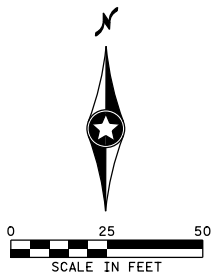
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LEGEND

- AREAS OF ENVIRONMENTAL SENSITIVITY
- CONSTRUCTION LIMITS
- WATER MAIN
- SANITARY SEWER
- STORM SEWER/CULVERT
- TEMPORARY RIGHT TO CONSTRUCT
- RIGHT OF WAY
- PROPOSED PERMANENT CONSTRUCTION
- DRAIN TILE

NOTES:



STA 740+99.79 R4 (AH) = $\frac{1}{2}$ EQUATION
STA 741+00.00 R3 (BK)

FOR GENERAL NOTES SEE SHEET 24

UTILITY LEGEND					
AAX →					
CONFLICT	OWNER	DESCRIPTION	QL	ACTION	REMARKS
MU01	MARSHALL UTILITIES	WATERMAIN			
MU02	MARSHALL UTILITIES	WATERMAIN			
MU03	MARSHALL UTILITIES	VALVE		ADJUST	
MU04	MARSHALL UTILITIES	VALVE		ADJUST	
MU05	MARSHALL UTILITIES	VALVE		ADJUST	
MU06	MARSHALL UTILITIES	WATERMAIN			
CM01	CITY OF MARSHALL	SANITARY			
CM02	CITY OF MARSHALL	SANITARY MH			
CM03	CITY OF MARSHALL	SANITARY MH			
CM04	CITY OF MARSHALL	SANITARY			
GP01	GREAT PLAINS NATURAL GAS	GAS VALVE		ADJUST	
GP02	GREAT PLAINS NATURAL GAS	GAS VALVE		ADJUST	
GP03	GREAT PLAINS NATURAL GAS	GAS			

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Print Name: KYLE F. HARRISON

Date: License #: 53658

STATE AID PROJECT NO. 139-111-007
139-112-006
139-115-004
139-122-007
139-124-005

STATE PROJECT NO. 4204-40

CITY PROJECT NO. X

DRAWN BY J. VAN BECK
DESIGNED BY C. FIENUP
CHECKED BY K. HARRISON
COMM. NO. 2214743



MINNESOTA DEPARTMENT OF TRANSPORTATION

INPLACE TOPOGRAPHY, UTILITY AND RIGHT OF WAY PLANS

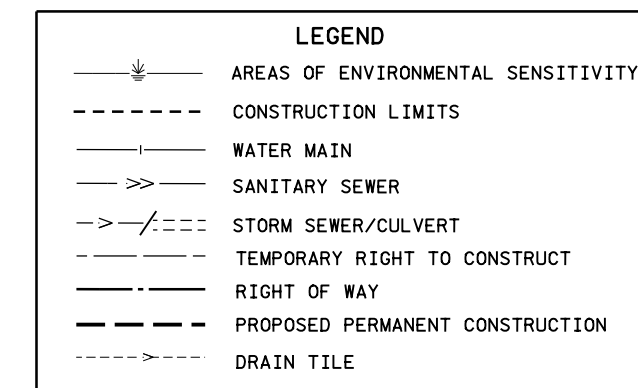
SP 4204-40 (TH 19)

SHEET 26 OF 122

SHEET 3 OF 13 SHEETS

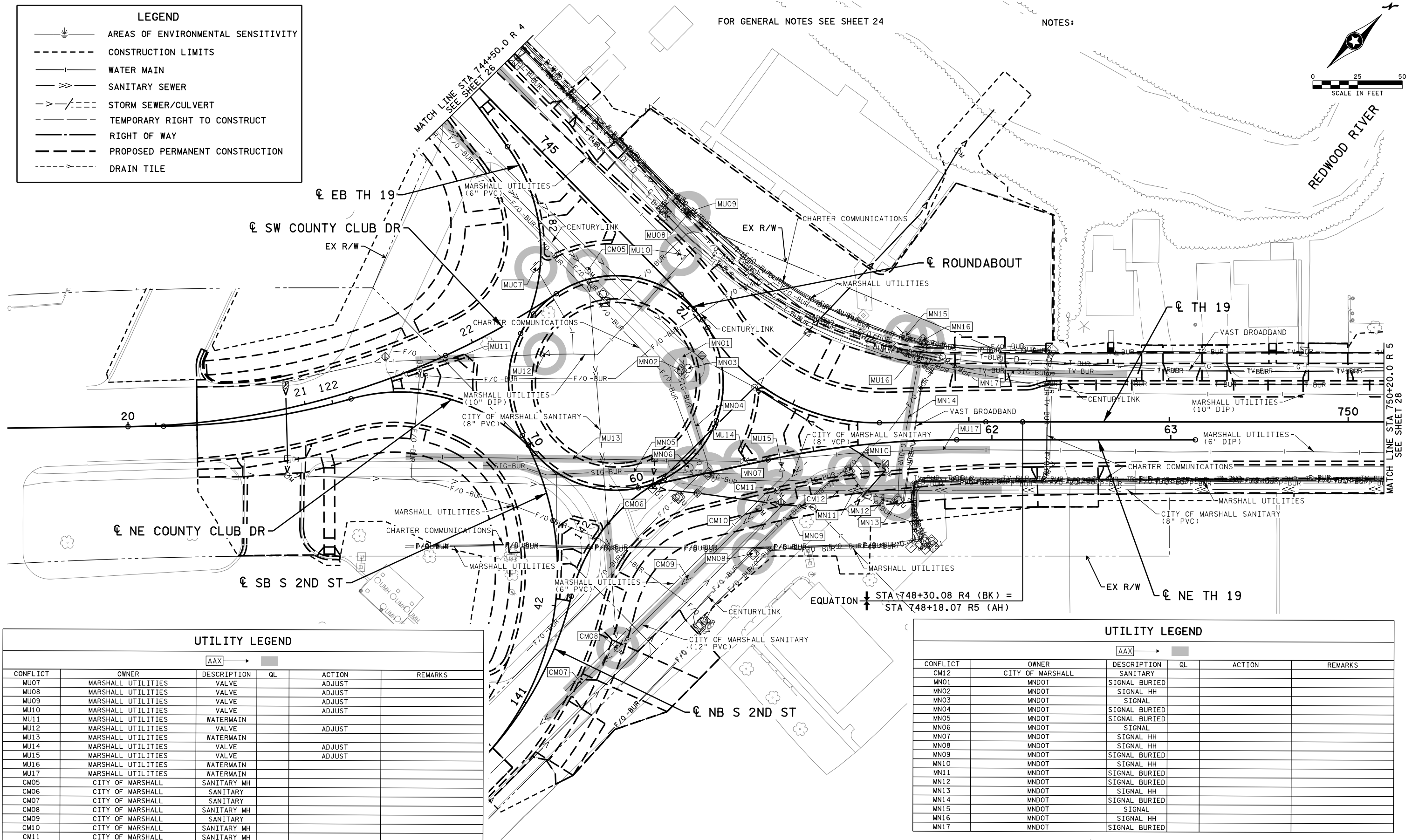
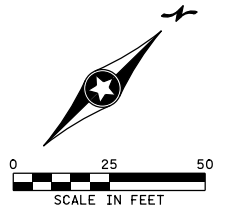
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NO	DATE	BY	CKD	APPR	REVISION
cd420440_top03.dgn					



FOR GENERAL NOTES SEE SHEET 24

NOTES:



UTILITY LEGEND					
AAX →					
CONFLICT	OWNER	DESCRIPTION	QL	ACTION	REMARKS
MU07	MARSHALL UTILITIES	VALVE		ADJUST	
MU08	MARSHALL UTILITIES	VALVE		ADJUST	
MU09	MARSHALL UTILITIES	VALVE		ADJUST	
MU10	MARSHALL UTILITIES	VALVE		ADJUST	
MU11	MARSHALL UTILITIES	WATERMAIN			
MU12	MARSHALL UTILITIES	VALVE		ADJUST	
MU13	MARSHALL UTILITIES	WATERMAIN			
MU14	MARSHALL UTILITIES	VALVE		ADJUST	
MU15	MARSHALL UTILITIES	VALVE		ADJUST	
MU16	MARSHALL UTILITIES	WATERMAIN			
MU17	MARSHALL UTILITIES	WATERMAIN			
CM05	CITY OF MARSHALL	SANITARY MH			
CM06	CITY OF MARSHALL	SANITARY			
CM07	CITY OF MARSHALL	SANITARY			
CM08	CITY OF MARSHALL	SANITARY MH			
CM09	CITY OF MARSHALL	SANITARY			
CM10	CITY OF MARSHALL	SANITARY MH			
CM11	CITY OF MARSHALL	SANITARY MH			

UTILITY LEGEND					
AAX →					
CONFLICT	OWNER	DESCRIPTION	QL	ACTION	REMARKS
CM12	CITY OF MARSHALL	SANITARY			
MN01	MNDOT	SIGNAL BURIED			
MN02	MNDOT	SIGNAL HH			
MN03	MNDOT	SIGNAL			
MN04	MNDOT	SIGNAL BURIED			
MN05	MNDOT	SIGNAL BURIED			
MN06	MNDOT	SIGNAL			
MN07	MNDOT	SIGNAL HH			
MN08	MNDOT	SIGNAL HH			
MN09	MNDOT	SIGNAL BURIED			
MN10	MNDOT	SIGNAL HH			
MN11	MNDOT	SIGNAL BURIED			
MN12	MNDOT	SIGNAL BURIED			
MN13	MNDOT	SIGNAL HH			
MN14	MNDOT	SIGNAL BURIED			
MN15	MNDOT	SIGNAL			
MN16	MNDOT	SIGNAL HH			
MN17	MNDOT	SIGNAL BURIED			

SHEET 4 OF 13 SHEETS

NO	DATE	BY	CKD	APPR	REVISION	
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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: KYLE F. HARRISON

Date License # 53658

STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005
STATE PROJECT NO.
4204-40
CITY PROJECT NO. X

DRAWN BY	J. VAN BECK
DESIGNED BY	C. FIENUP
CHECKED BY	K. HARRISON
COMM. NO. 2214743	



MINNESOTA DEPARTMENT OF TRANSPORTATION
INPLACE TOPOGRAPHY, UTILITY AND RIGHT OF WAY PLANS
SP 4204-40 (TH 19)

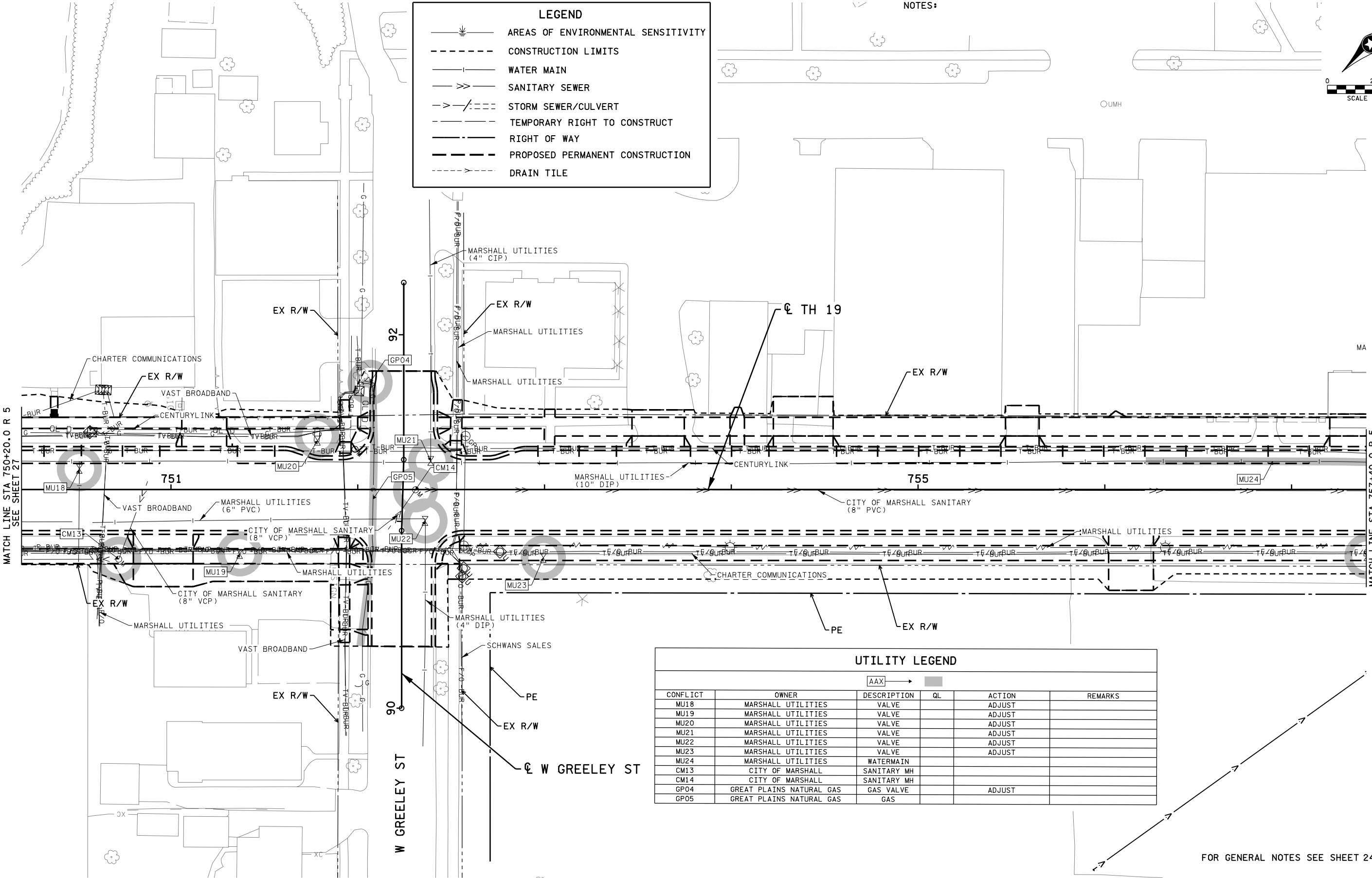
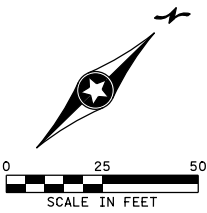
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OF
122

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LEGEND

- AREAS OF ENVIRONMENTAL SENSITIVITY
- CONSTRUCTION LIMITS
- WATER MAIN
- SANITARY SEWER
- STORM SEWER/CULVERT
- TEMPORARY RIGHT TO CONSTRUCT
- RIGHT OF WAY
- PROPOSED PERMANENT CONSTRUCTION
- DRAIN TILE

NOTES:



UTILITY LEGEND					
CONFLICT	OWNER	DESCRIPTION	QL	ACTION	REMARKS
MU18	MARSHALL UTILITIES	VALVE		ADJUST	
MU19	MARSHALL UTILITIES	VALVE		ADJUST	
MU20	MARSHALL UTILITIES	VALVE		ADJUST	
MU21	MARSHALL UTILITIES	VALVE		ADJUST	
MU22	MARSHALL UTILITIES	VALVE		ADJUST	
MU23	MARSHALL UTILITIES	VALVE		ADJUST	
MU24	MARSHALL UTILITIES	WATERMAIN			
CM13	CITY OF MARSHALL	SANITARY MH			
CM14	CITY OF MARSHALL	SANITARY MH			
GP04	GREAT PLAINS NATURAL GAS	GAS VALVE		ADJUST	
GP05	GREAT PLAINS NATURAL GAS	GAS			

FOR GENERAL NOTES SEE SHEET 24

SHEET 5 OF 13 SHEETS

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Print Name: KYLE F. HARRISON
Date: License #: 53658

STATE AID PROJECT NO. 139-111-007
139-112-006
139-115-004
139-122-007
139-124-005
STATE PROJECT NO. 4204-40
CITY PROJECT NO. X

DRAWN BY J. VAN BECK
DESIGNED BY C. FIENUP
CHECKED BY K. HARRISON
COMM. NO. 2214743



MINNESOTA DEPARTMENT OF TRANSPORTATION
INPLACE TOPOGRAPHY, UTILITY AND RIGHT OF WAY PLANS
SP 4204-40 (TH 19)

SHEET 28 OF 122

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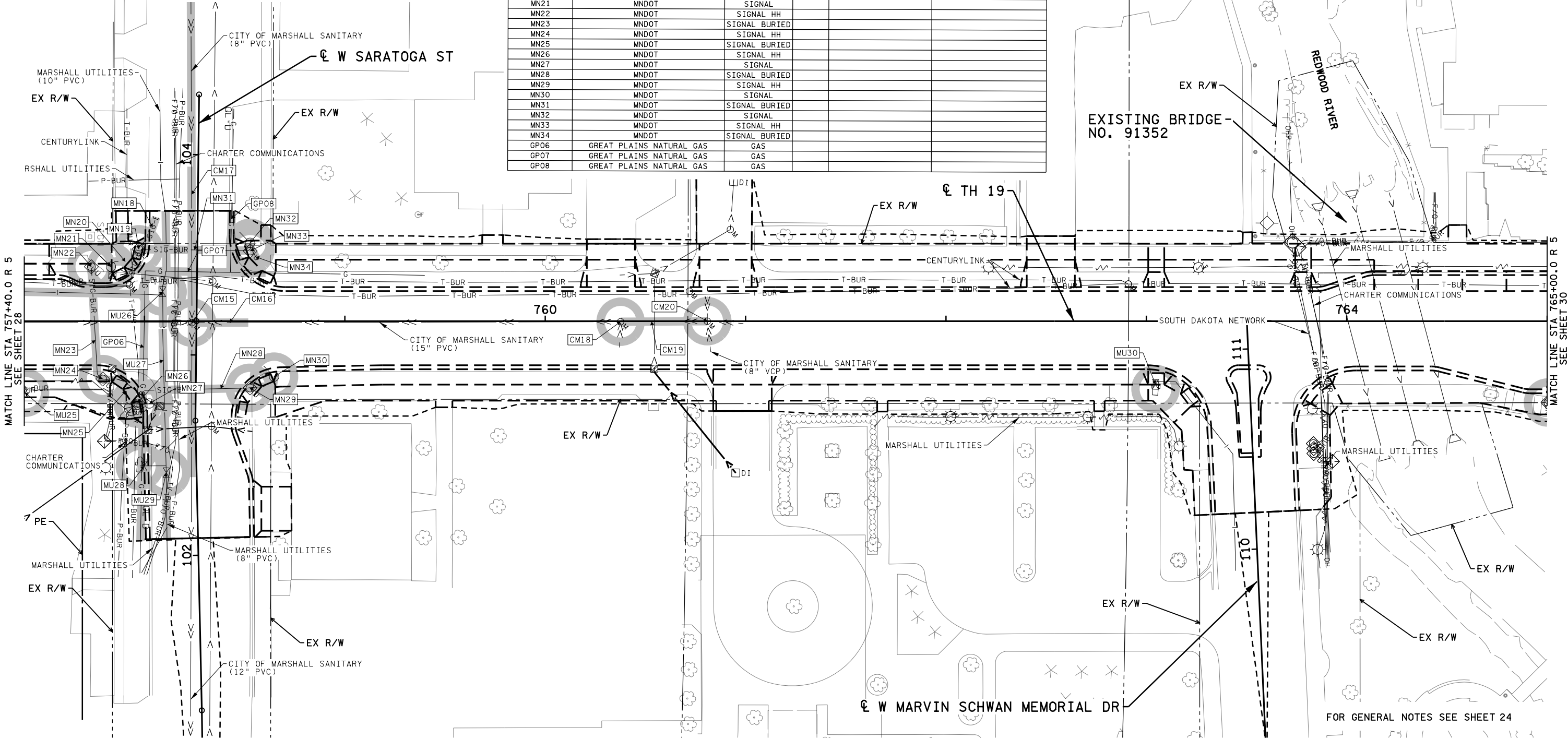
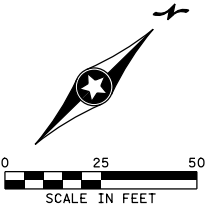
LEGEND

- AREAS OF ENVIRONMENTAL SENSITIVITY
- CONSTRUCTION LIMITS
- WATER MAIN
- SANITARY SEWER
- STORM SEWER/CULVERT
- TEMPORARY RIGHT TO CONSTRUCT
- RIGHT OF WAY
- PROPOSED PERMANENT CONSTRUCTION
- DRAIN TILE

UTILITY LEGEND

CONFLICT	OWNER	DESCRIPTION	QL	ACTION	REMARKS
MU25	MARSHALL UTILITIES	VALVE		ADJUST	
MU26	MARSHALL UTILITIES	VALVE		ADJUST	
MU27	MARSHALL UTILITIES	WATERMAIN			
MU28	MARSHALL UTILITIES	VALVE		ADJUST	
MU29	MARSHALL UTILITIES	VALVE		ADJUST	
MU30	MARSHALL UTILITIES	VALVE		ADJUST	
CM15	CITY OF MARSHALL	SANITARY MH			
CM16	CITY OF MARSHALL	SANITARY			
CM17	CITY OF MARSHALL	SANITARY			
CM18	CITY OF MARSHALL	SANITARY MH			
CM19	CITY OF MARSHALL	SANITARY			
CM20	CITY OF MARSHALL	SANITARY MH			
MN18	MNDOT	SIGNAL BURIED			
MN19	MNDOT	SIGNAL HH			
MN20	MNDOT	SIGNAL BURIED			
MN21	MNDOT	SIGNAL			
MN22	MNDOT	SIGNAL HH			
MN23	MNDOT	SIGNAL BURIED			
MN24	MNDOT	SIGNAL HH			
MN25	MNDOT	SIGNAL BURIED			
MN26	MNDOT	SIGNAL HH			
MN27	MNDOT	SIGNAL			
MN28	MNDOT	SIGNAL BURIED			
MN29	MNDOT	SIGNAL HH			
MN30	MNDOT	SIGNAL			
MN31	MNDOT	SIGNAL BURIED			
MN32	MNDOT	SIGNAL			
MN33	MNDOT	SIGNAL HH			
MN34	MNDOT	SIGNAL BURIED			
GP06	GREAT PLAINS NATURAL GAS	GAS			
GP07	GREAT PLAINS NATURAL GAS	GAS			
GP08	GREAT PLAINS NATURAL GAS	GAS			

NOTES:

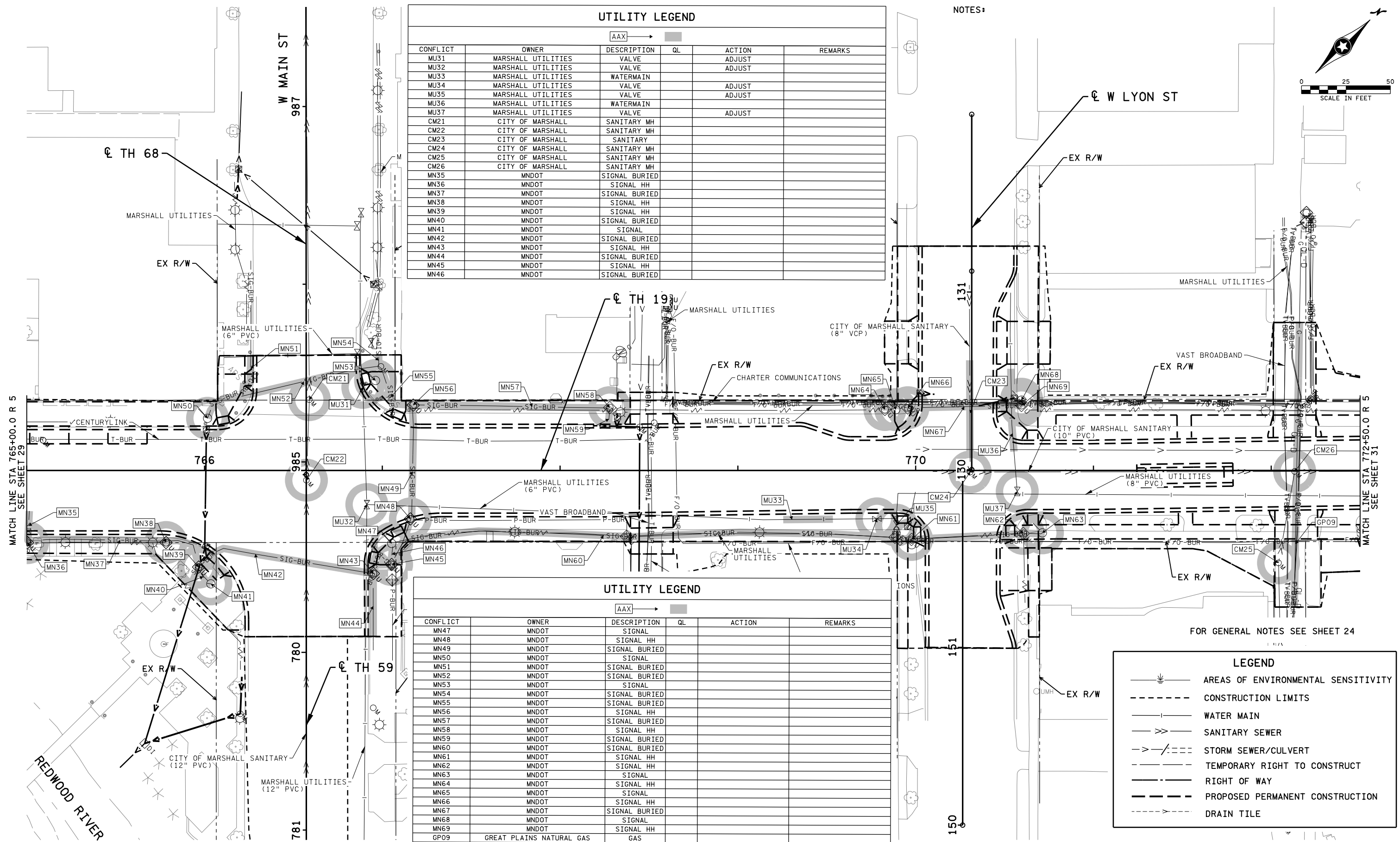


FOR GENERAL NOTES SEE SHEET 24

SHEET 6 OF 13 SHEETS

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota. Print Name: KYLE F. HARRISON Date: License #: 53658	STATE AID PROJECT NO. 139-111-007 DESIGNED BY C. FIENUP CHECKED BY K. HARRISON COMM. NO. 2214743		MINNESOTA DEPARTMENT OF TRANSPORTATION INPLACE TOPOGRAPHY, UTILITY AND RIGHT OF WAY PLANS SP 4204-40 (TH 19)	SHEET 29 OF 122

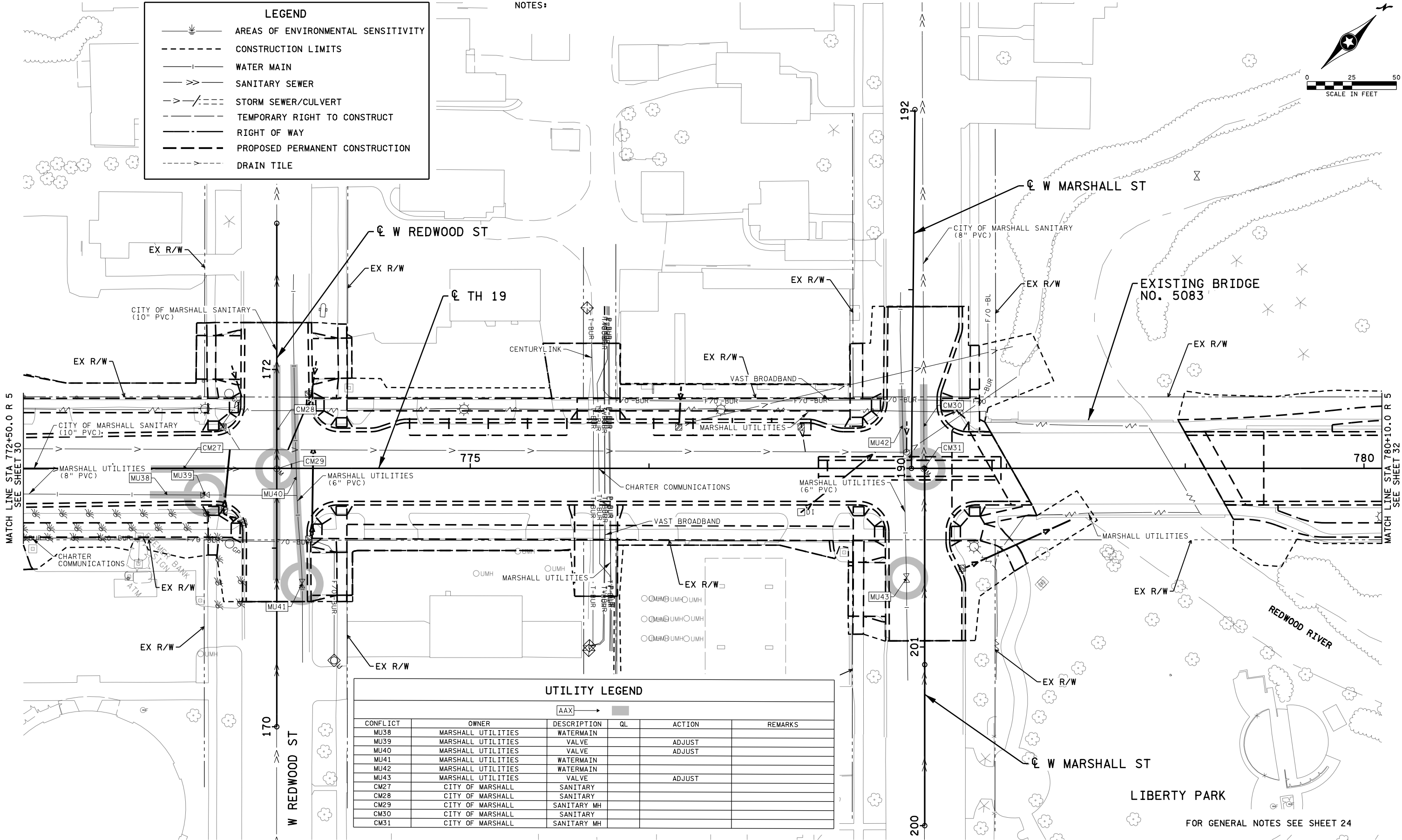
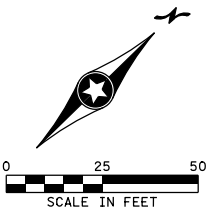
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LEGEND

- AREAS OF ENVIRONMENTAL SENSITIVITY
- CONSTRUCTION LIMITS
- WATER MAIN
- SANITARY SEWER
- STORM SEWER/CULVERT
- TEMPORARY RIGHT TO CONSTRUCT
- RIGHT OF WAY
- PROPOSED PERMANENT CONSTRUCTION
- DRAIN TILE

NOTES:



UTILITY LEGEND					
AAX →					
CONFLICT	OWNER	DESCRIPTION	QL	ACTION	REMARKS
MU38	MARSHALL UTILITIES	WATERMAIN			
MU39	MARSHALL UTILITIES	VALVE		ADJUST	
MU40	MARSHALL UTILITIES	VALVE		ADJUST	
MU41	MARSHALL UTILITIES	WATERMAIN			
MU42	MARSHALL UTILITIES	WATERMAIN			
MU43	MARSHALL UTILITIES	VALVE		ADJUST	
CM27	CITY OF MARSHALL	SANITARY			
CM28	CITY OF MARSHALL	SANITARY			
CM29	CITY OF MARSHALL	SANITARY MH			
CM30	CITY OF MARSHALL	SANITARY			
CM31	CITY OF MARSHALL	SANITARY MH			

FOR GENERAL NOTES SEE SHEET 24

SHEET 8 OF 13 SHEETS

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NO	DATE	BY	CKD	APPR	REVISION
cd420440_top08.dgn					

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Print Name: KYLE F. HARRISON

Date: License #: 53658

STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005

STATE PROJECT NO.
4204-40

CITY PROJECT NO. X

DRAWN BY
J. VAN BECK

DESIGNED BY
C. FIENUP

CHECKED BY
K. HARRISON

COMM. NO. 2214743

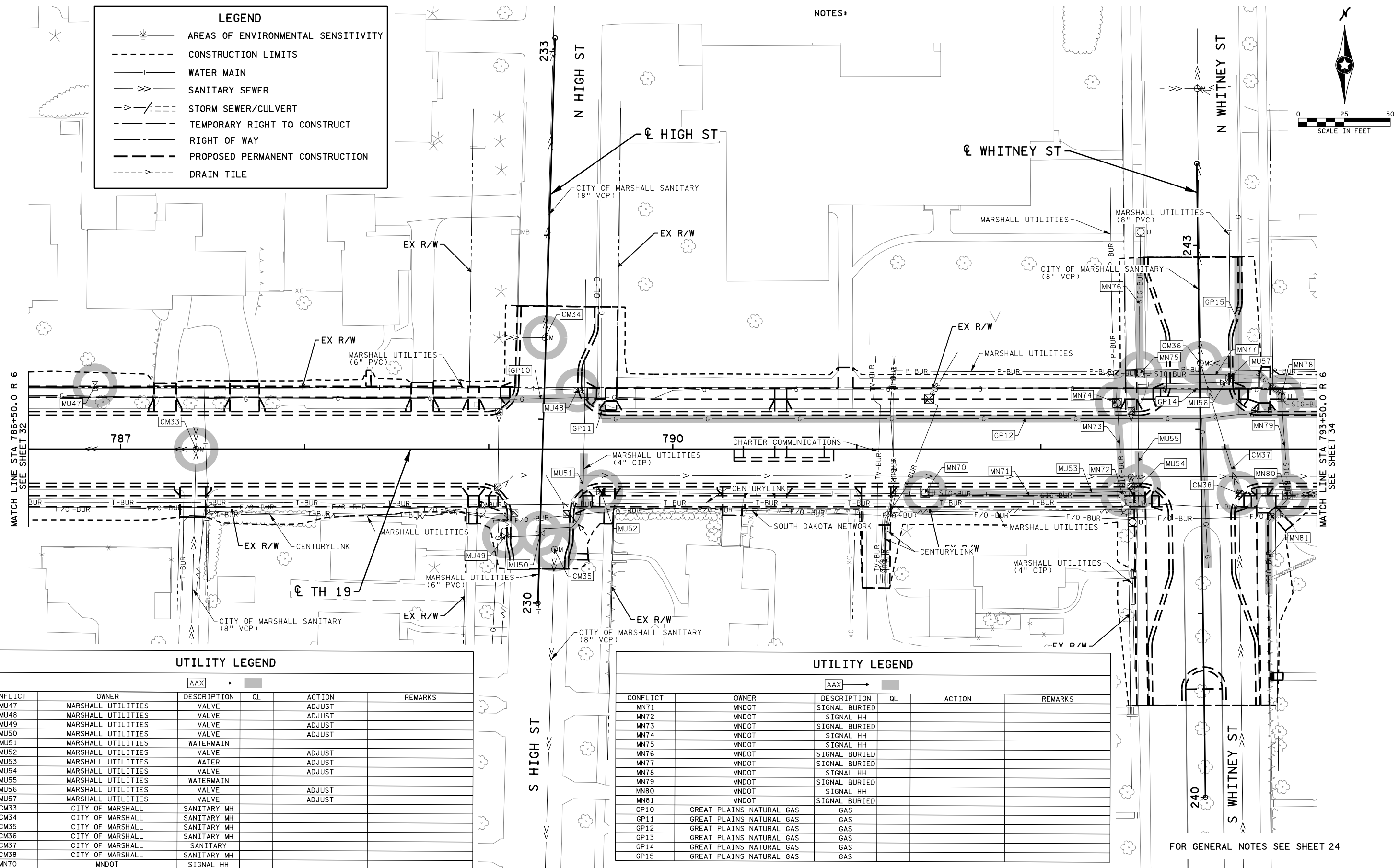


MINNESOTA DEPARTMENT OF TRANSPORTATION

INPLACE TOPOGRAPHY, UTILITY AND RIGHT OF WAY PLANS

SP 4204-40 (TH 19)

SHEET
31
OF
122



UTILITY LEGEND					
AAX →					
CONFLICT	OWNER	DESCRIPTION	QL	ACTION	REMARKS
MU47	MARSHALL UTILITIES	VALVE		ADJUST	
MU48	MARSHALL UTILITIES	VALVE		ADJUST	
MU49	MARSHALL UTILITIES	VALVE		ADJUST	
MU50	MARSHALL UTILITIES	VALVE		ADJUST	
MU51	MARSHALL UTILITIES	WATERMAIN			
MU52	MARSHALL UTILITIES	VALVE		ADJUST	
MU53	MARSHALL UTILITIES	WATER		ADJUST	
MU54	MARSHALL UTILITIES	VALVE		ADJUST	
MU55	MARSHALL UTILITIES	WATERMAIN			
MU56	MARSHALL UTILITIES	VALVE		ADJUST	
MU57	MARSHALL UTILITIES	VALVE		ADJUST	
CM33	CITY OF MARSHALL	SANITARY MH			
CM34	CITY OF MARSHALL	SANITARY MH			
CM35	CITY OF MARSHALL	SANITARY MH			
CM36	CITY OF MARSHALL	SANITARY MH			
CM37	CITY OF MARSHALL	SANITARY			
CM38	CITY OF MARSHALL	SANITARY MH			
MN70	MNDOT	SIGNAL HH			

UTILITY LEGEND						
AAX →						
CONFLICT	OWNER	DESCRIPTION	QL	ACTION		REMARKS
MN71	MNDOT	SIGNAL BURIED				
MN72	MNDOT	SIGNAL HH				
MN73	MNDOT	SIGNAL BURIED				
MN74	MNDOT	SIGNAL HH				
MN75	MNDOT	SIGNAL HH				
MN76	MNDOT	SIGNAL BURIED				
MN77	MNDOT	SIGNAL BURIED				
MN78	MNDOT	SIGNAL HH				
MN79	MNDOT	SIGNAL BURIED				
MN80	MNDOT	SIGNAL HH				
MN81	MNDOT	SIGNAL BURIED				
GP10	GREAT PLAINS NATURAL GAS	GAS				
GP11	GREAT PLAINS NATURAL GAS	GAS				
GP12	GREAT PLAINS NATURAL GAS	GAS				
GP13	GREAT PLAINS NATURAL GAS	GAS				
GP14	GREAT PLAINS NATURAL GAS	GAS				
GP15	GREAT PLAINS NATURAL GAS	GAS				

NO	DATE	BY	CKD	APPR	REVISION
cd420440_top10.dgn					

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: KYLE F. HARRISON

Date _____ License # 53658

STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005
STATE PROJECT NO.
4204-40
CITY PROJECT NO. X

DRAWN BY	J. VAN BECK
DESIGNED BY	C. FIENUP
CHECKED BY	K. HARRISON
COMM. NO.	2214743



MINNESOTA DEPARTMENT OF TRANSPORTATION
INPLACE TOPOGRAPHY, UTILITY AND RIGHT OF WAY PLANS
SP 4204-40 (TH 19)

SHEET
33
OF
122

LEGEND

AREAS OF ENVIRONMENTAL SENSITIVITY

CONSTRUCTION LIMITS

WATER MAIN

SANITARY SEWER

STORM SEWER/CULVERT

TEMPORARY RIGHT TO CONSTRUCT

RIGHT OF WAY

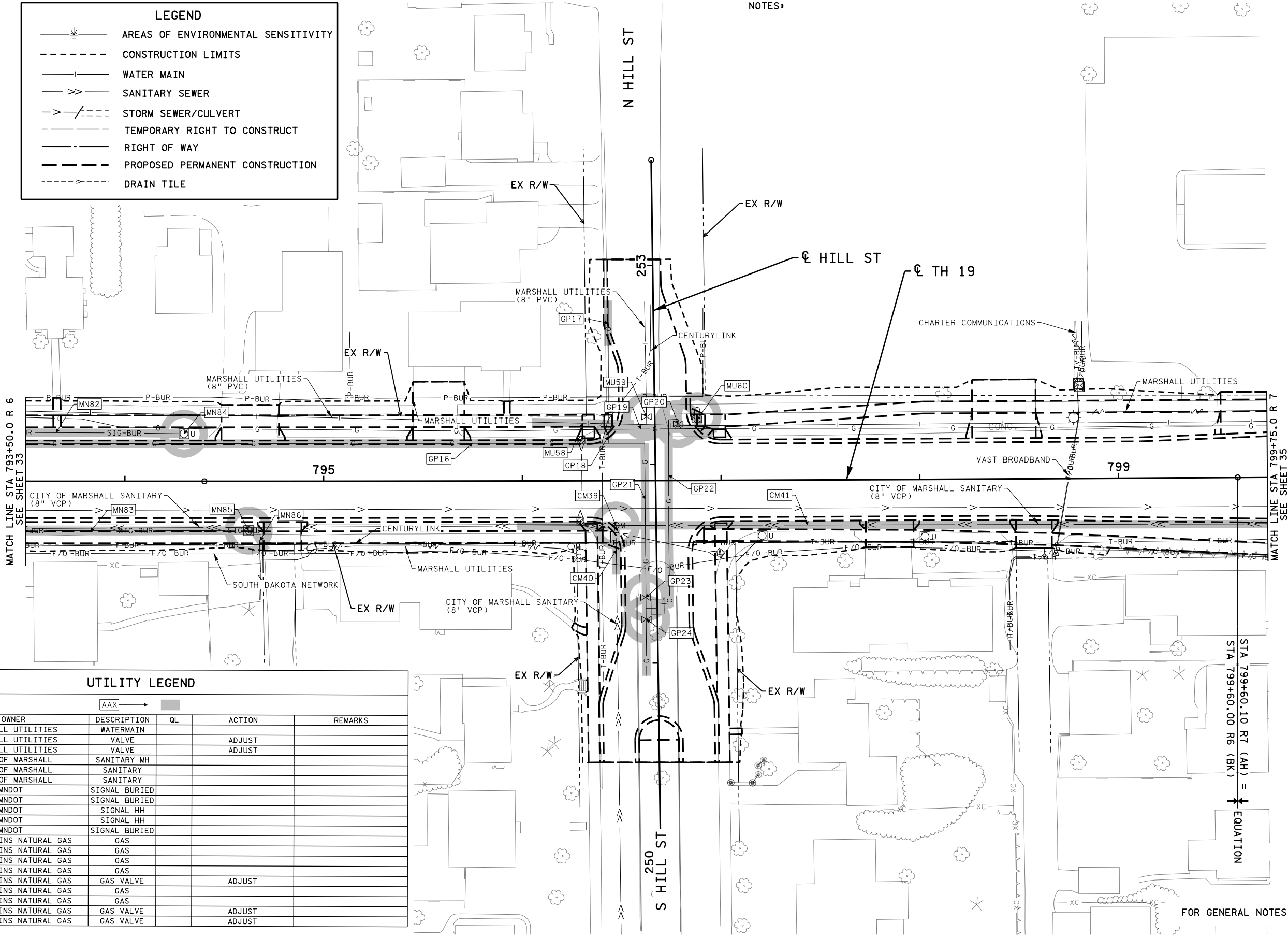
PROPOSED PERMANENT CONSTRUCTION

DRAIN TILE

NOTES:

02550

SCALE IN FEET



UTILITY LEGEND

AAX

CONFLICT	OWNER	DESCRIPTION	QL	ACTION	REMARKS
MU58	MARSHALL UTILITIES	WATERMAIN			
MU59	MARSHALL UTILITIES	VALVE		ADJUST	
MU60	MARSHALL UTILITIES	VALVE		ADJUST	
CM39	CITY OF MARSHALL	SANITARY MH			
CM40	CITY OF MARSHALL	SANITARY			
CM41	CITY OF MARSHALL	SANITARY			
MN82	MNDOT	SIGNAL BURIED			
MN83	MNDOT	SIGNAL BURIED			
MN84	MNDOT	SIGNAL HH			
MN85	MNDOT	SIGNAL HH			
MN86	MNDOT	SIGNAL BURIED			
GP16	GREAT PLAINS NATURAL GAS	GAS			
GP17	GREAT PLAINS NATURAL GAS	GAS			
GP18	GREAT PLAINS NATURAL GAS	GAS			
GP19	GREAT PLAINS NATURAL GAS	GAS			
GP20	GREAT PLAINS NATURAL GAS	GAS VALVE		ADJUST	
GP21	GREAT PLAINS NATURAL GAS	GAS			
GP22	GREAT PLAINS NATURAL GAS	GAS			
GP23	GREAT PLAINS NATURAL GAS	GAS VALVE		ADJUST	
GP24	GREAT PLAINS NATURAL GAS	GAS VALVE		ADJUST	

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Print Name: KYLE F. HARRISON

Date: License # 53658

STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005

STATE PROJECT NO.
4204-40

CITY PROJECT NO. X

DRAWN BY
J. VAN BECK

DESIGNED BY
C. FIENUP

CHECKED BY
K. HARRISON

COMM. NO. 2214743



MINNESOTA DEPARTMENT OF TRANSPORTATION

INPLACE TOPOGRAPHY, UTILITY AND RIGHT OF WAY PLANS

SP 4204-40 (TH 19)

SHEET

34

OF

122

SHEET 11 OF 13 SHEETS

FOR GENERAL NOTES SEE SHEET 24

STA 799+60.10 R7 (AH) = EQUATION
STA 799+60.00 R6 (BK)

MATCH LINE STA 793+50.0 R 6
SEE SHEET 33

MATCH LINE STA 799+75.0 R 7
SEE SHEET 35

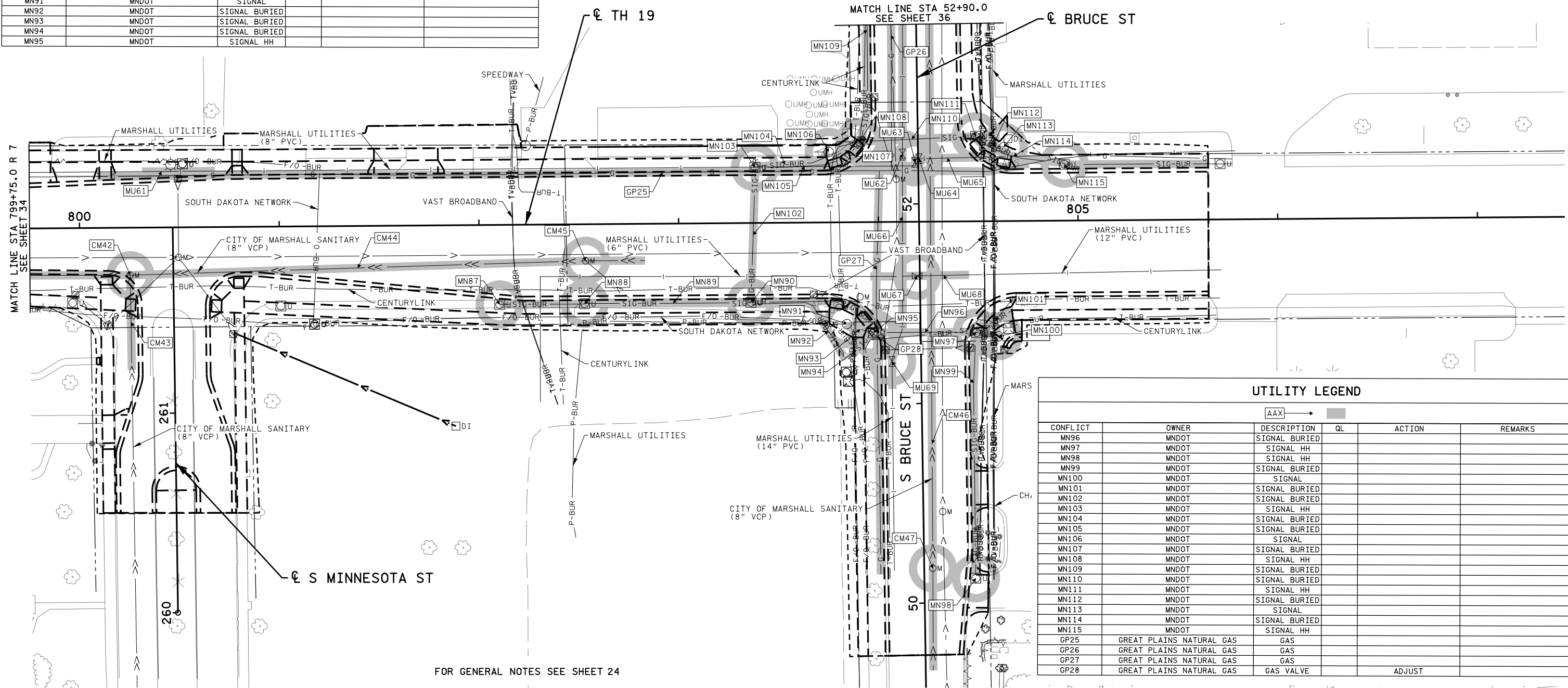
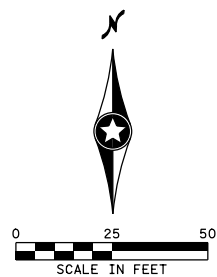
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NO	DATE	BY	CKD	APPR	REVISION
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UTILITY LEGEND					
AAX →					
CONFLICT	OWNER	DESCRIPTION	QL	ACTION	REMARKS
MU61	MARSHALL UTILITIES	WATERMAIN			
MU62	MARSHALL UTILITIES	VALVE		ADJUST	
MU63	MARSHALL UTILITIES	VALVE		ADJUST	
MU64	MARSHALL UTILITIES	VALVE		ADJUST	
MU65	MARSHALL UTILITIES	WATERMAIN			
MU66	MARSHALL UTILITIES	WATERMAIN			
MU67	MARSHALL UTILITIES	VALVE		ADJUST	
MU68	MARSHALL UTILITIES	WATERMAIN			
MU69	MARSHALL UTILITIES	VALVE		ADJUST	
CM42	CITY OF MARSHALL	SANITARY MH			
CM43	CITY OF MARSHALL	SANITARY			
CM44	CITY OF MARSHALL	SANITARY			
CM45	CITY OF MARSHALL	SANITARY MH			
CM46	CITY OF MARSHALL	SANITARY			
CM47	CITY OF MARSHALL	SANITARY MH			
MN87	MNDOT	SIGNAL HH			
MN88	MNDOT	SIGNAL HH			
MN89	MNDOT	SIGNAL BURIED			
MN90	MNDOT	SIGNAL HH			
MN91	MNDOT	SIGNAL			
MN92	MNDOT	SIGNAL BURIED			
MN93	MNDOT	SIGNAL BURIED			
MN94	MNDOT	SIGNAL BURIED			
MN95	MNDOT	SIGNAL HH			

LEGEND	
	AREAS OF ENVIRONMENTAL SENSITIVITY
	CONSTRUCTION LIMITS
	WATER MAIN
	SANITARY SEWER
	STORM SEWER/CULVERT
	TEMPORARY RIGHT TO CONSTRUCT
	RIGHT OF WAY
	PROPOSED PERMANENT CONSTRUCTION
	DRAIN TILE

NOTES:



UTILITY LEGEND					
AAX →					
CONFLICT	OWNER	DESCRIPTION	QL	ACTION	REMARKS
MN96	MNDOT	SIGNAL BURIED			
MN97	MNDOT	SIGNAL HH			
MN98	MNDOT	SIGNAL HH			
MN99	MNDOT	SIGNAL BURIED			
MN100	MNDOT	SIGNAL			
MN101	MNDOT	SIGNAL BURIED			
MN102	MNDOT	SIGNAL BURIED			
MN103	MNDOT	SIGNAL HH			
MN104	MNDOT	SIGNAL BURIED			
MN105	MNDOT	SIGNAL BURIED			
MN106	MNDOT	SIGNAL			
MN107	MNDOT	SIGNAL BURIED			
MN108	MNDOT	SIGNAL HH			
MN109	MNDOT	SIGNAL BURIED			
MN110	MNDOT	SIGNAL BURIED			
MN111	MNDOT	SIGNAL HH			
MN112	MNDOT	SIGNAL BURIED			
MN113	MNDOT	SIGNAL			
MN114	MNDOT	SIGNAL BURIED			
MN115	MNDOT	SIGNAL HH			
GP25	GREAT PLAINS NATURAL GAS	GAS			
GP26	GREAT PLAINS NATURAL GAS	GAS			
GP27	GREAT PLAINS NATURAL GAS	GAS			
GP28	GREAT PLAINS NATURAL GAS	GAS VALVE		ADJUST	

FOR GENERAL NOTES SEE SHEET 24

SHEET 12 OF 13 SHEETS

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Print Name: KYLE F. HARRISON
Date: License # 53658

STATE AID PROJECT NO. 139-111-007
139-112-006
139-115-004
139-122-007
139-124-005
STATE PROJECT NO. 4204-40
CITY PROJECT NO. X

DRAWN BY J. VAN BECK
DESIGNED BY C. FIENUP
CHECKED BY K. HARRISON
COMM. NO. 2214743



MINNESOTA DEPARTMENT OF TRANSPORTATION
INPLACE TOPOGRAPHY, UTILITY AND RIGHT OF WAY PLANS
SP 4204-40 (TH 19)

SHEET 35 OF 122

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GENERAL NOTES:

REMOVAL OF PAVEMENT SHALL CONSIST OF REMOVING ALL LAYERS OF PAVEMENT BASED ON THE AREA OF THE TOP SURFACE, REGARDLESS OF MATERIAL TYPE, THICKNESS, REINFORCING OR REMOVAL METHOD.

ALL TREES TO BE CLEARED AND GRUBBED WILL BE MARKED BY THE FIELD ENGINEER.

PROTECT ALL TREES THAT ARE NOT MARKED FOR REMOVAL (INCIDENTAL).

SHRUB REMOVAL SHALL BE INCIDENTAL.

IT IS THE CONTRACTORS RESPONSIBILITY TO IDENTIFY AND PROTECT EXISTING IRRIGATION SYSTEMS. ANY DISRUPTION OR MODIFICATION TO THESE SYSTEMS IS CONSIDERED INCIDENTAL. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING IRRIGATION SYSTEMS TO WORKING CONDITION DEEMED ACCEPTABLE TO THE ENGINEER AND PROPERTY OWNER.

SEE RURAL ENTRANCE DETAILS AND TABULATIONS FOR ENTRANCE REMOVAL INFORMATION. (SEE SHEETS #DD01#DD03

SAWING OF SIDEWALKS AND CURB AND GUTTER NEEDED FOR REMOVAL IS INCIDENTAL.

REMOVE CONCRETE PAVEMENT

REMOVE BITUMINOUS PAVEMENT

REMOVE BITUMINOUS DRIVEWAY PAVEMENT

REMOVE CONCRETE DRIVEWAY PAVEMENT

REMOVE BITUMINOUS WALK

REMOVE CONCRETE WALK

REMOVE AGGREGATE DRIVEWAY (PAID FOR AS EXCAVATION - COMMON)

CLEAR AND GRUB (ACRE)

LEGEND

REMOVE BRICK PAVERS

REMOVE CURB & GUTTER

REMOVE PIPE SEWERS

REMOVE PIPE CULVERTS

REMOVE PIPE DRAIN

CONSTRUCTION LIMITS

CLEAR AND GRUB (EACH)

SAWING BITUMINOUS PAVEMENT (FULL DEPTH)

TEMPORARY RIGHT TO CONSTRUCT

RIGHT OF WAY

NOTES:

- ② SAWING CONCRETE PAVEMENT (FULL DEPTH)
- ⑧ REMOVE MANHOLE OR CATCH BASIN
- ⑪ REMOVE CURB
- ⑫ SALVAGE FENCE
- ⑭ REMOVE VALLEY GUTTER (PAID FOR AS REMOVE CURB AND GUTTER)
- ⑫ PROTECT TREE (INCIDENTAL)

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Print Name: KYLE F. HARRISON

Date: License #: 53658

STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005

STATE PROJECT NO.
4204-40

CITY PROJECT NO. X

DRAWN BY
J. VAN BECK

DESIGNED BY
C. FIENUP

CHECKED BY
K. HARRISON

COMM. NO. 2214743

MINNESOTA DEPARTMENT OF TRANSPORTATION

REMOVAL PLANS
SP 4204-40 (TH 19)

SHEET

37

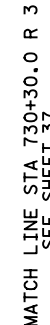
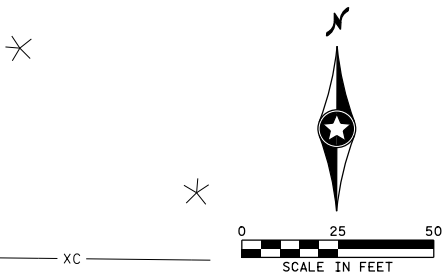
OF

122

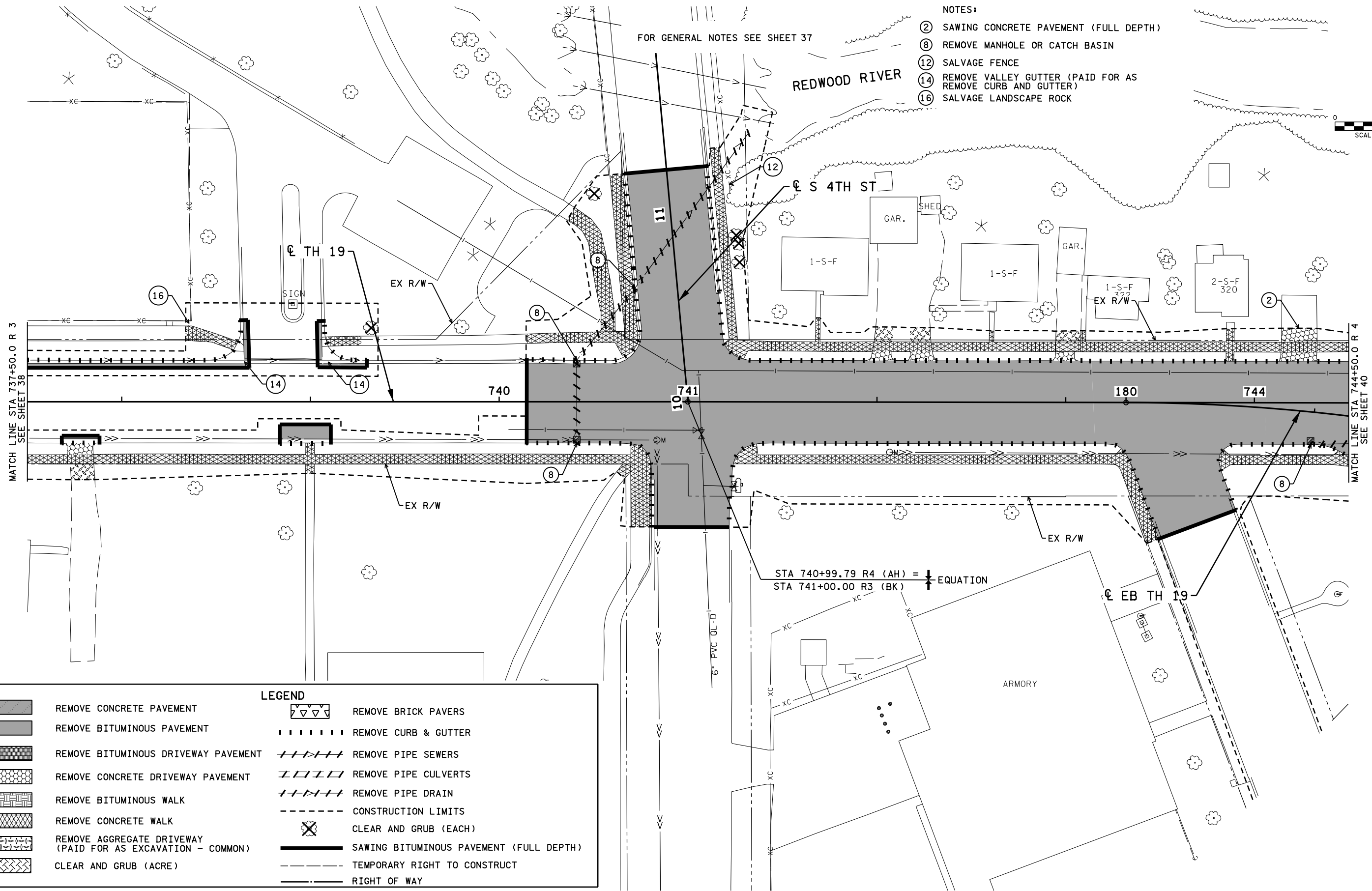
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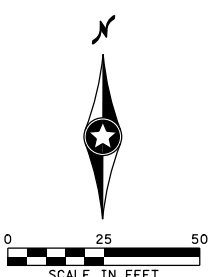
- NOTES:
- ② SAWING CONCRETE PAVEMENT (FULL DEPTH)
 - ⑧ REMOVE MANHOLE OR CATCH BASIN
 - ⑫ SALVAGE FENCE
 - ⑬ SALVAGE VEHICULAR GATE
 - ⑮ PROTECT TREE (INCIDENTAL)
 - ⑳ RECONSTRUCT DRAINAGE STRUCTURE



MATCH LINE STA 737+50.0 R 3
SEE SHEET 39



- NOTES:
- ② SAWING CONCRETE PAVEMENT (FULL DEPTH)
 - ⑧ REMOVE MANHOLE OR CATCH BASIN
 - ⑫ SALVAGE FENCE
 - ⑭ REMOVE VALLEY GUTTER (PAID FOR AS REMOVE CURB AND GUTTER)
 - ⑯ SALVAGE LANDSCAPE ROCK



REMOVE CONCRETE PAVEMENT

REMOVE BITUMINOUS PAVEMENT

REMOVE BITUMINOUS DRIVEWAY PAVEMENT

REMOVE CONCRETE DRIVEWAY PAVEMENT

REMOVE BITUMINOUS WALK

REMOVE CONCRETE WALK

REMOVE AGGREGATE DRIVEWAY (PAID FOR AS EXCAVATION - COMMON)

CLEAR AND GRUB (ACRE)

REMOVE BRICK PAVERS

REMOVE CURB & GUTTER

REMOVE PIPE SEWERS

REMOVE PIPE CULVERTS

REMOVE PIPE DRAIN

CONSTRUCTION LIMITS

CLEAR AND GRUB (EACH)

SAWING BITUMINOUS PAVEMENT (FULL DEPTH)

TEMPORARY RIGHT TO CONSTRUCT

RIGHT OF WAY

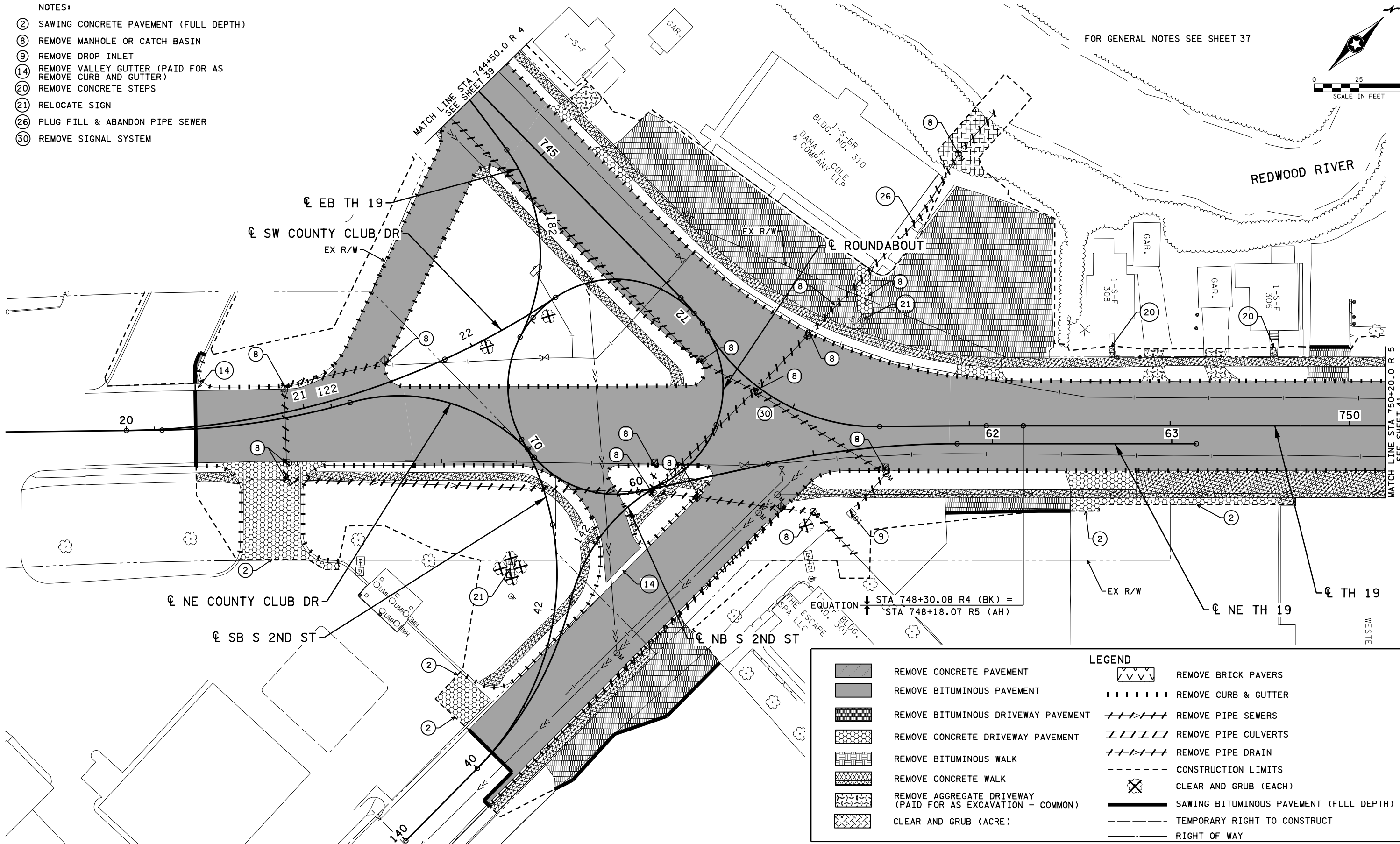
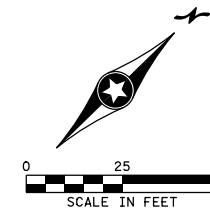
STA 740+99.79 R4 (AH) = $\frac{1}{2}$ EQUATION
STA 741+00.00 R3 (BK)

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NOTES:

- ② SAWING CONCRETE PAVEMENT (FULL DEPTH)
- ⑧ REMOVE MANHOLE OR CATCH BASIN
- ⑨ REMOVE DROP INLET
- ⑭ REMOVE VALLEY GUTTER (PAID FOR AS REMOVE CURB AND GUTTER)
- ⑳ REMOVE CONCRETE STEPS
- ㉑ RELOCATE SIGN
- ㉒ PLUG FILL & ABANDON PIPE SEWER
- ㉓ REMOVE SIGNAL SYSTEM

FOR GENERAL NOTES SEE SHEET 37

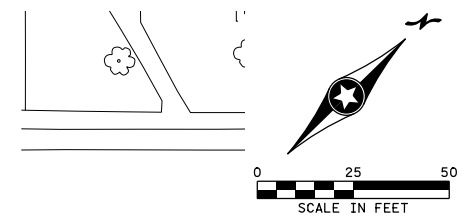


LEGEND	
	REMOVE CONCRETE PAVEMENT
	REMOVE BITUMINOUS PAVEMENT
	REMOVE BITUMINOUS DRIVEWAY PAVEMENT
	REMOVE CONCRETE DRIVEWAY PAVEMENT
	REMOVE BITUMINOUS WALK
	REMOVE CONCRETE WALK
	REMOVE AGGREGATE DRIVEWAY (PAID FOR AS EXCAVATION - COMMON)
	CLEAR AND GRUB (ACRE)
	REMOVE BRICK PAVERS
	REMOVE CURB & GUTTER
	REMOVE PIPE SEWERS
	REMOVE PIPE CULVERTS
	REMOVE PIPE DRAIN
	CONSTRUCTION LIMITS
	CLEAR AND GRUB (EACH)
	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
	TEMPORARY RIGHT TO CONSTRUCT
	RIGHT OF WAY

SHEET 4 OF 13 SHEETS

					I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.		STATE AID PROJECT NO. 139-111-007 139-112-006 139-115-004 139-122-007 139-124-005		DRAWN BY J. VAN BECK DESIGNED BY C. FIENUP CHECKED BY K. HARRISON			MINNESOTA DEPARTMENT OF TRANSPORTATION		SHEET 40 OF 122
					Print Name: KYLE F. HARRISON		STATE PROJECT NO. 4204-40		CITY PROJECT NO. X			COMM. NO. 2214743		
					Date _____ License # 53658									
NO	DATE	BY	CKD	APPR	REVISION									
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SHEET 5 OF 13 SHEETS

NO DATE BY CKD APPR

REVISION

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Print Name: KYLE F. HARRISON

Date License # 53658

STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005
STATE PROJECT NO.
4204-40
CITY PROJECT NO. X

DRAWN BY	J. VAN BECK
DESIGNED BY	C. FIENUP
CHECKED BY	K. HARRISON
COMM. NO. 2214743	



MINNESOTA DEPARTMENT OF TRANSPORTATION

REMOVAL PLANS
SP 4204-40 (TH 19)

SHEET
41
OF
122

REMOVE CONCRETE PAVEMENT

REMOVE BITUMINOUS PAVEMENT

REMOVE BITUMINOUS DRIVEWAY PAVEMENT

REMOVE CONCRETE DRIVEWAY PAVEMENT

REMOVE BITUMINOUS WALK

REMOVE CONCRETE WALK

REMOVE AGGREGATE DRIVEWAY
(PAID FOR AS EXCAVATION - COMMON)

CLEAR AND GRUB (ACRE)

LEGEND

REMOVE BRICK PAVERS

REMOVE CURB & GUTTER

REMOVE PIPE SEWERS

REMOVE PIPE CULVERTS

REMOVE PIPE DRAIN

CONSTRUCTION LIMITS

CLEAR AND GRUB (EACH)

SAWING BITUMINOUS PAVEMENT (FULL DEPTH)

TEMPORARY RIGHT TO CONSTRUCT

RIGHT OF WAY

FOR GENERAL NOTES SEE SHEET 37

NOTES:

- ② SAWING CONCRETE PAVEMENT (FULL DEPTH)
- ⑧ REMOVE MANHOLE OR CATCH BASIN
- ⑨ REMOVE DROP INLET
- ⑫ SALVAGE FENCE
- ⑮ SALVAGE TREE GRATE
- ⑯ SALVAGE LANDSCAPE ROCK
- ⑰ RELOCATE SIGN
- ⑳ REMOVE BOLLARDS
- ㉔ RECONSTRUCT DRAINAGE STRUCTURE
- ㉕ REMOVE SIGNAL SYSTEM

SHEET 6 OF 13 SHEETS

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NO	DATE	BY	CKD	APPR	REVISION
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Print Name: KYLE F. HARRISON

Date: _____ License # 53658

STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005

STATE PROJECT NO.
4204-40

CITY PROJECT NO. X

DRAWN BY
J. VAN BECK

DESIGNED BY
C. FIENUP

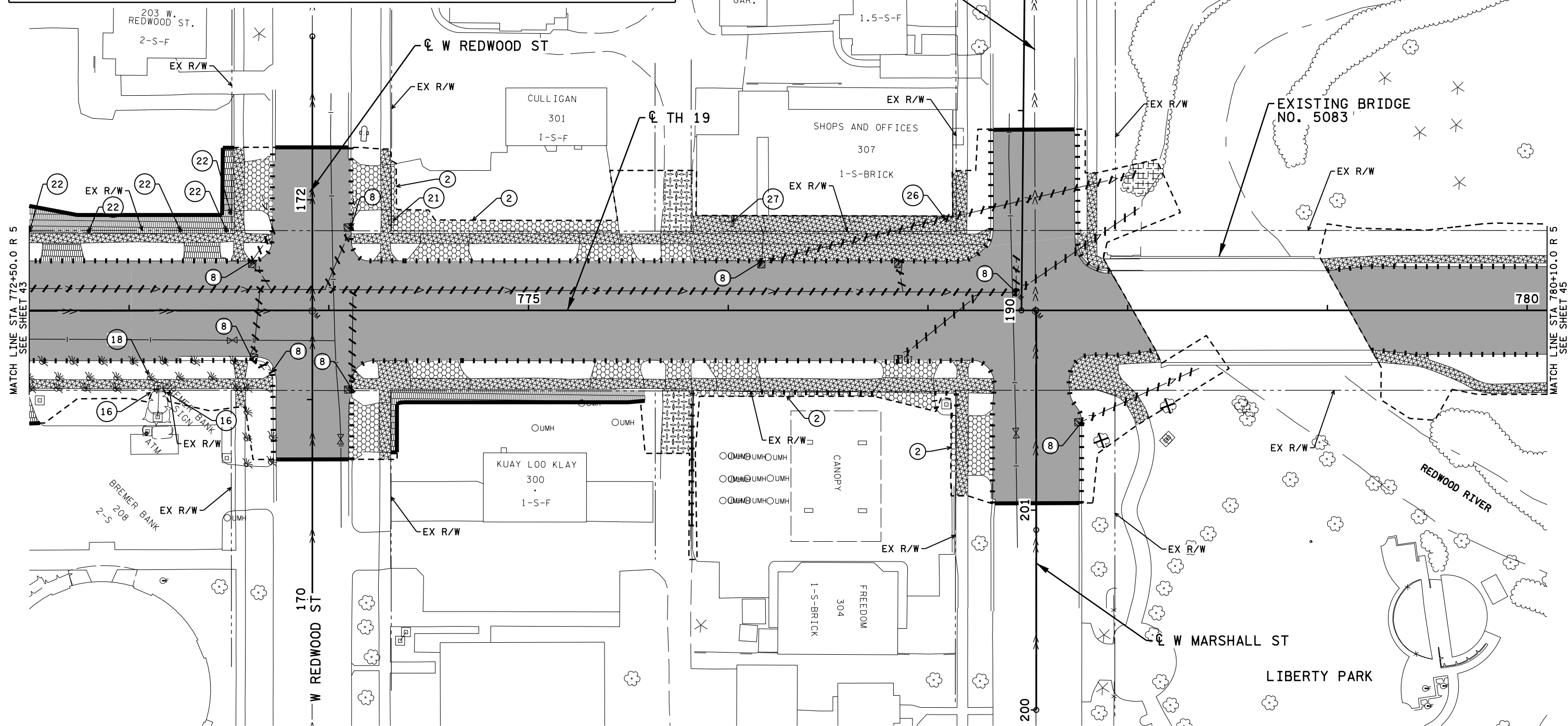
CHECKED BY
K. HARRISON

COMM. NO. 2214743

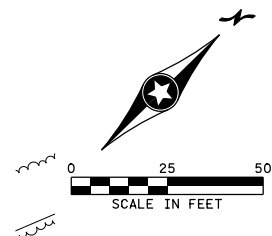
MINNESOTA DEPARTMENT OF TRANSPORTATION

REMOVAL PLANS
SP 4204-40 (TH 19)

SHEET
42
OF
122



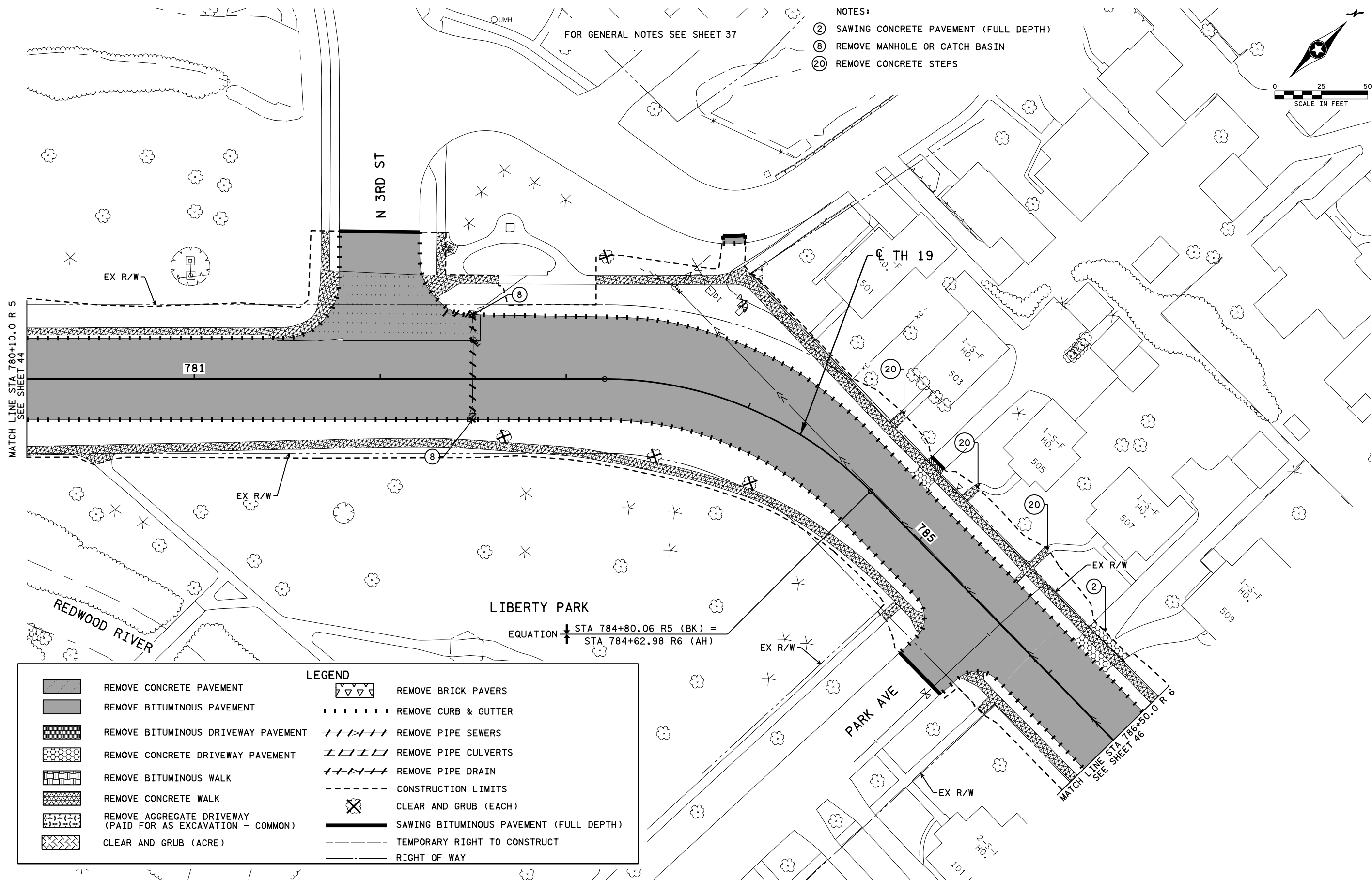
- ② SAWING CONCRETE PAVEMENT (FULL DEPTH)
- ⑧ REMOVE MANHOLE OR CATCH BASIN
- ⑩ SALVAGE LANDSCAPE ROCK
- ⑫ SALVAGE IRRIGATION EQUIPMENT
- ⑮ RELOCATE SIGN
- ⑰ REMOVE WOOD POST
- ⑲ PLUG FILL & ABANDON PIPE SEWER
- ⑳ REMOVE MASONRY WALL



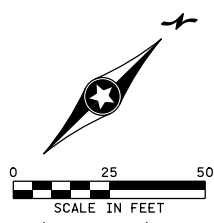
SHEET 8 OF 13 SHEETS

					I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota. Print Name: KYLE F. HARRISON Date _____ License # 53658	STATE AID PROJECT NO. 139-111-007 139-112-006 139-115-004 139-122-007 139-124-005 STATE PROJECT NO. 4204-40 CITY PROJECT NO. X	DRAWN BY J. VAN BECK DESIGNED BY C. FIENUP CHECKED BY K. HARRISON COMM. NO. 2214743		MINNESOTA DEPARTMENT OF TRANSPORTATION		SHEET 44 OF 122
									REMOVAL PLANS		
									SP 4204-40 (TH 19)		
NO	DATE	BY	CKD	APPR	REVISION						
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- NOTES:
- ② SAWING CONCRETE PAVEMENT (FULL DEPTH)
 - ⑧ REMOVE MANHOLE OR CATCH BASIN
 - ②① REMOVE CONCRETE STEPS



REMOVE CONCRETE PAVEMENT

REMOVE BITUMINOUS PAVEMENT

REMOVE BITUMINOUS DRIVEWAY PAVEMENT

REMOVE CONCRETE DRIVEWAY PAVEMENT

REMOVE BITUMINOUS WALK

REMOVE CONCRETE WALK

REMOVE AGGREGATE DRIVEWAY (PAID FOR AS EXCAVATION - COMMON)

CLEAR AND GRUB (ACRE)

LEGEND

REMOVE BRICK PAVERS

REMOVE CURB & GUTTER

REMOVE PIPE SEWERS

REMOVE PIPE CULVERTS

REMOVE PIPE DRAIN

CONSTRUCTION LIMITS

CLEAR AND GRUB (EACH)

SAWING BITUMINOUS PAVEMENT (FULL DEPTH)

TEMPORARY RIGHT TO CONSTRUCT

RIGHT OF WAY

EQUATION $\downarrow$ STA 784+80.06 R5 (BK) =
 $\uparrow$ STA 784+62.98 R6 (AH)

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NO	DATE	BY	CKD	APPR	REVISION
cd420440_r-em09.dgn					

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: KYLE F. HARRISON

Date: License #: 53658

STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005

STATE PROJECT NO.
4204-40

CITY PROJECT NO. X

DRAWN BY
J. VAN BECK

DESIGNED BY
C. FIENUP

CHECKED BY
K. HARRISON

COMM. NO. 2214743

MINNESOTA DEPARTMENT OF TRANSPORTATION

REMOVAL PLANS

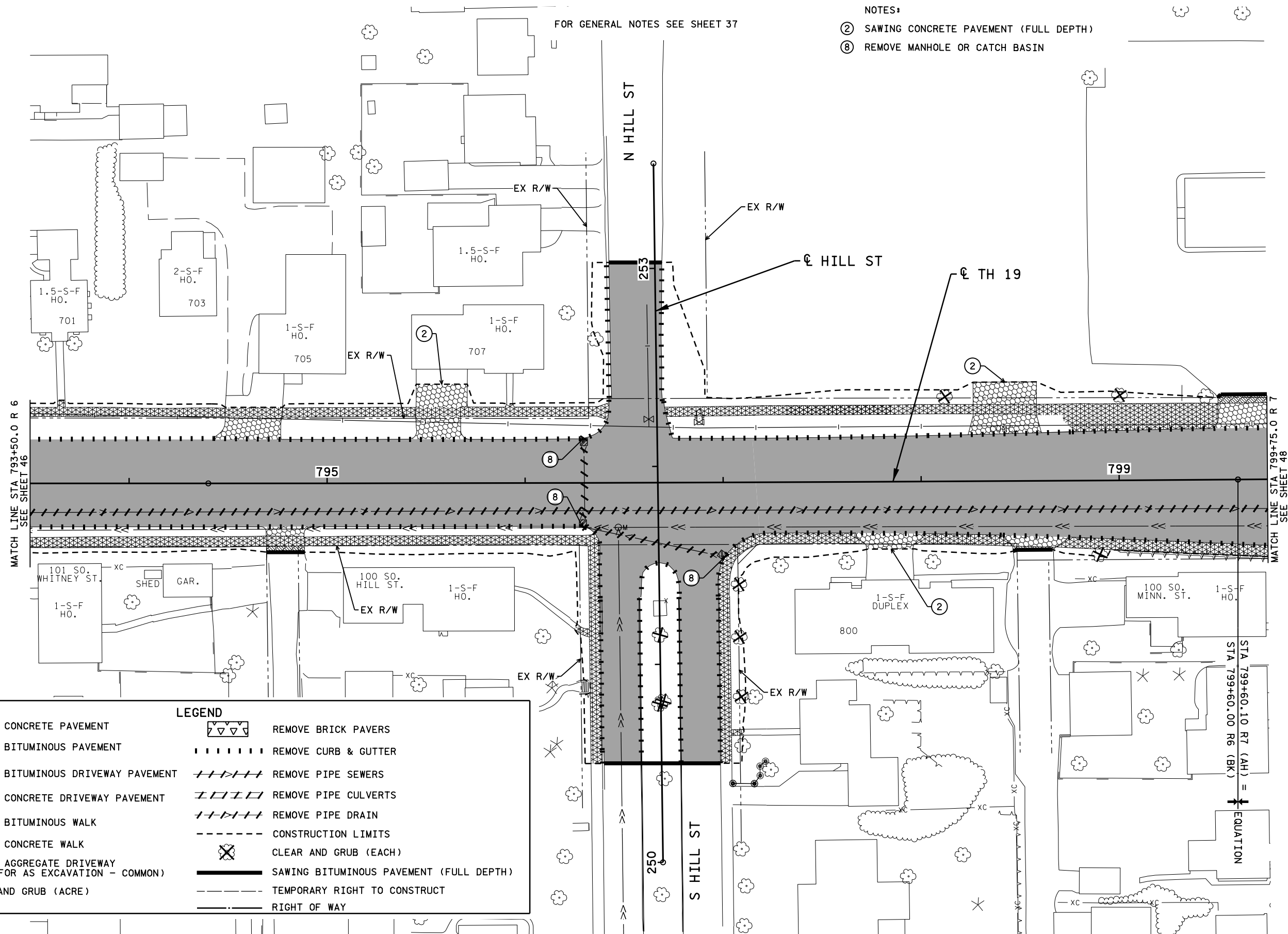
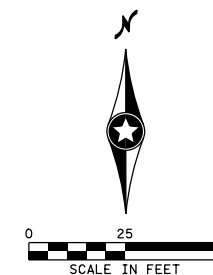
SP 4204-40 (TH 19)

SHEET 9 OF 13 SHEETS

SHEET 45 OF 122

NOTES:

- ② SAWING CONCRETE PAVEMENT (FULL DEPTH)
- ⑧ REMOVE MANHOLE OR CATCH BASIN



	REMOVE CONCRETE PAVEMENT		REMOVE BRICK PAVERS
	REMOVE BITUMINOUS PAVEMENT		REMOVE CURB & GUTTER
	REMOVE BITUMINOUS DRIVEWAY PAVEMENT		REMOVE PIPE SEWERS
	REMOVE CONCRETE DRIVEWAY PAVEMENT		REMOVE PIPE CULVERTS
	REMOVE BITUMINOUS WALK		REMOVE PIPE DRAIN
	REMOVE CONCRETE WALK		CONSTRUCTION LIMITS
	REMOVE AGGREGATE DRIVEWAY (PAID FOR AS EXCAVATION - COMMON)		CLEAR AND GRUB (EACH)
	CLEAR AND GRUB (ACRE)		SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
			TEMPORARY RIGHT TO CONSTRUCT
			RIGHT OF WAY

SHEET 11 OF 13 SHEETS

No	Date	By	Ckd	Appr	Revision
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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: KYLE F. HARRISON

Date License # 53658

STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005
STATE PROJECT NO.
4204-40
CITY PROJECT NO. X

DRAWN BY J. VAN BECK
DESIGNED BY C. FIENUP
CHECKED BY K. HARRISON
COMM. NO. 2214743



MINNESOTA DEPARTMENT OF TRANSPORTATION

REMOVAL PLANS
SP 4204-40 (TH 19)

SHEET
47
OF
122

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- REMOVE CONCRETE PAVEMENT

REMOVE BITUMINOUS PAVEMENT

REMOVE BITUMINOUS DRIVEWAY PAVEMENT

REMOVE CONCRETE DRIVEWAY PAVEMENT

REMOVE BITUMINOUS WALK

REMOVE CONCRETE WALK

REMOVE AGGREGATE DRIVEWAY
(PAID FOR AS EXCAVATION - COMMON)

CLEAR AND GRUB (ACRE)

LEGEND

REMOVE BRICK PAVERS

REMOVE CURB & GUTTER

REMOVE PIPE SEWERS

REMOVE PIPE CULVERTS

REMOVE PIPE DRAIN

CONSTRUCTION LIMITS

CLEAR AND GRUB (EACH)

SAWING BITUMINOUS PAVEMENT (FULL DEPTH)

TEMPORARY RIGHT TO CONSTRUCT

RIGHT OF WAY
- FOR GENERAL NOTES SEE SHEET 37
- NOTES:

 - ② SAWING CONCRETE PAVEMENT (FULL DEPTH)
 - ⑧ REMOVE MANHOLE OR CATCH BASIN
 - ⑪ REMOVE CURB
 - ⑳ REMOVE CONCRETE STEPS
 - ㉑ RELOCATE SIGN
 - ㉓ REMOVE SIGNAL SYSTEM
-
-
- SHEET 12 OF 13 SHEETS
- I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: KYLE F. HARRISON

Date: _____ License # 53658
- STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005

STATE PROJECT NO.
4204-40

CITY PROJECT NO. X
- DRAWN BY
J. VAN BECK

DESIGNED BY
C. FIENUP

CHECKED BY
K. HARRISON

COMM. NO. 2214743
-
- MINNESOTA DEPARTMENT OF TRANSPORTATION
- REMOVAL PLANS
SP 4204-40 (TH 19)
- SHEET
48
OF
122
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GENERAL NOTES:

THE RIGHT-OF-WAY SHOWN IN THIS PLAN GIVES A GRAPHICAL LOCATION WITH RESPECT TO THE GEOMETRIC DESIGN AND MAP DATA. THE EXACT RIGHT OF WAY AND BOUNDARY CORNERS ARE LOCATED BY REFERENCE TO THE RIGHT OF WAY PLATS AND ARE IDENTIFIED ON THE RIGHT OF WAY MAP.

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.

ALL DIMENSIONS TO CURB & GUTTER ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.

ALL CURB & GUTTER IS B624 UNLESS NOTED OTHERWISE.

WHERE NEW SIDEWALK AND TRAIL IS CONSTRUCTED ADJACENT TO EXISTING PAVEMENT, MATCH EXISTING CROSS SLOPE AND PROVIDE GRADUAL TRANSITION AS NECESSARY.

SEE INTERSECTION AND ADA PLANS FOR INFORMATION NOT SHOWN ON THE CONSTRUCTION PLANS.

SEE PAVEMENT MARKINGS PLANS AND DETAILS FOR LANE CONFIGURATIONS AND MARKINGS.

LEGEND

3" BITUMINOUS ENTRANCE - RESIDENTIAL

6" CONCRETE WALK

4" CONCRETE WALK

8" COMMERCIAL/ALLEY CONCRETE DRIVEWAY PAVEMENT

6" RESIDENTIAL CONCRETE DRIVEWAY PAVEMENT

AGGREGATE SURFACING (CV) CLASS 1

CONCRETE CURB RAMP WALK

BITUMINOUS PAVEMENT

SUPERELEVATION TRANSITION (FT/FT)

INPLACE PAVEMENT

PROPOSED CONSTRUCTION

DIRECTION OF TRAFFIC

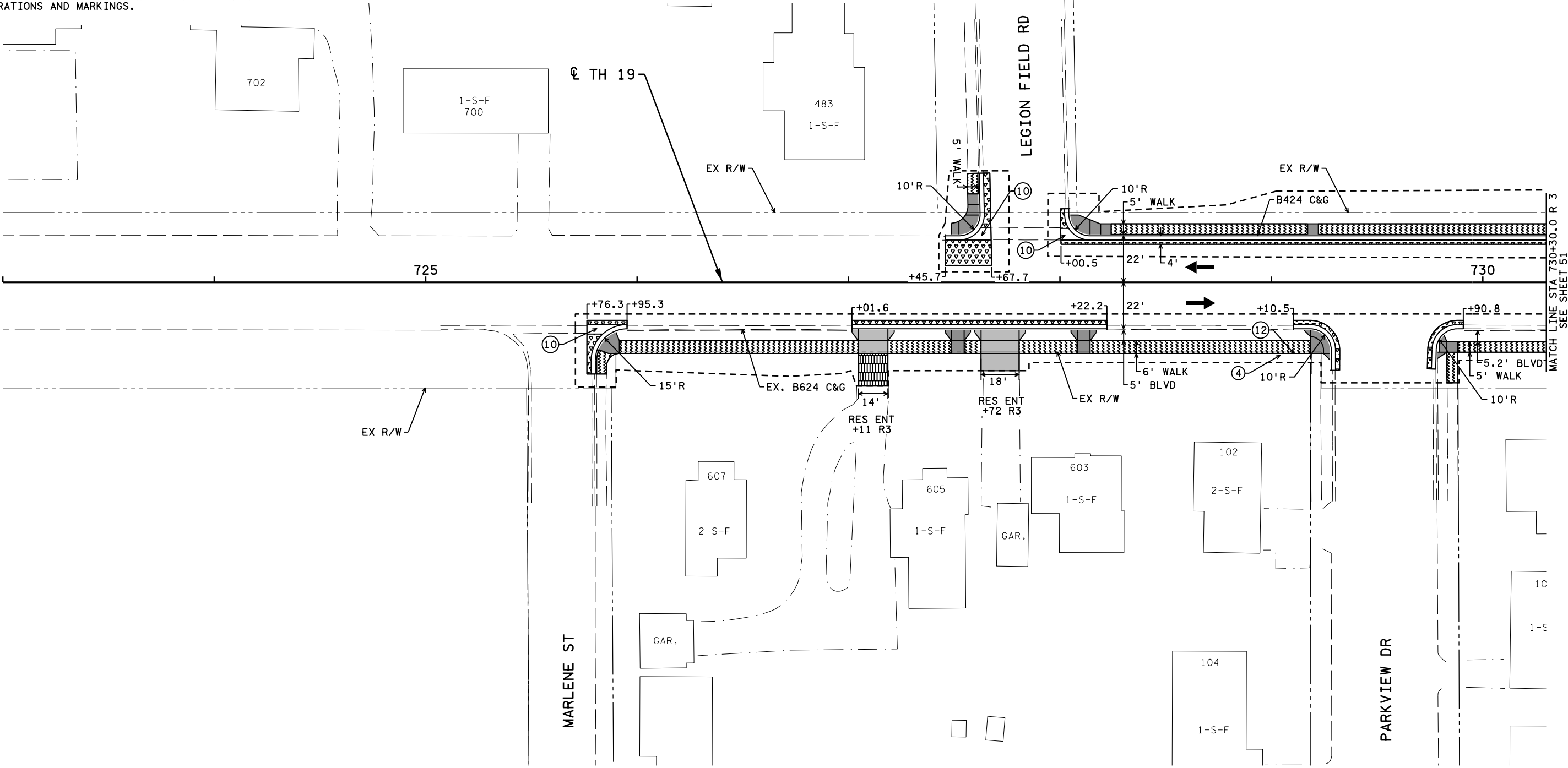
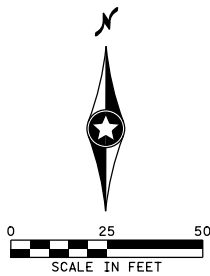
CONSTRUCTION LIMITS

TEMPORARY RIGHT TO CONSTRUCT

RIGHT OF WAY

NOTES:

- ④ INSTALL FENCE
- ⑩ 6" CONCRETE VALLEY GUTTER
- ⑫ CONCRETE CURB DESIGN V6



SHEET 1 OF 13 SHEETS

					I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.		STATE AID PROJECT NO. 139-111-007 139-112-006 139-115-004 139-122-007 139-124-005		DRAWN BY J. VAN BECK DESIGNED BY C. FIENUP CHECKED BY K. HARRISON			MINNESOTA DEPARTMENT OF TRANSPORTATION		SHEET 50 OF 122
					Print Name: KYLE F. HARRISON		STATE PROJECT NO. 4204-40		COMM. NO. 2214743			CONSTRUCTION AND SUPERELEVATION PLANS SP 4204-40 (TH 19)		
NO DATE BY CKD APPR REVISION					Date _____ License # 53658		CITY PROJECT NO. X							
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3" BITUMINOUS ENTRANCE - RESIDENTIAL

6" CONCRETE WALK

4" CONCRETE WALK

8" COMMERCIAL/ALLEY
CONCRETE DRIVEWAY PAVEMENT

6" RESIDENTIAL CONCRETE DRIVEWAY
PAVEMENT

AGGREGATE SURFACING (CV) CLASS 1

CONCRETE CURB RAMP WALK

BITUMINOUS PAVEMENT

SUPERELEVATION TRANSITION (FT/FT)

INPLACE PAVEMENT

PROPOSED CONSTRUCTION

DIRECTION OF TRAFFIC

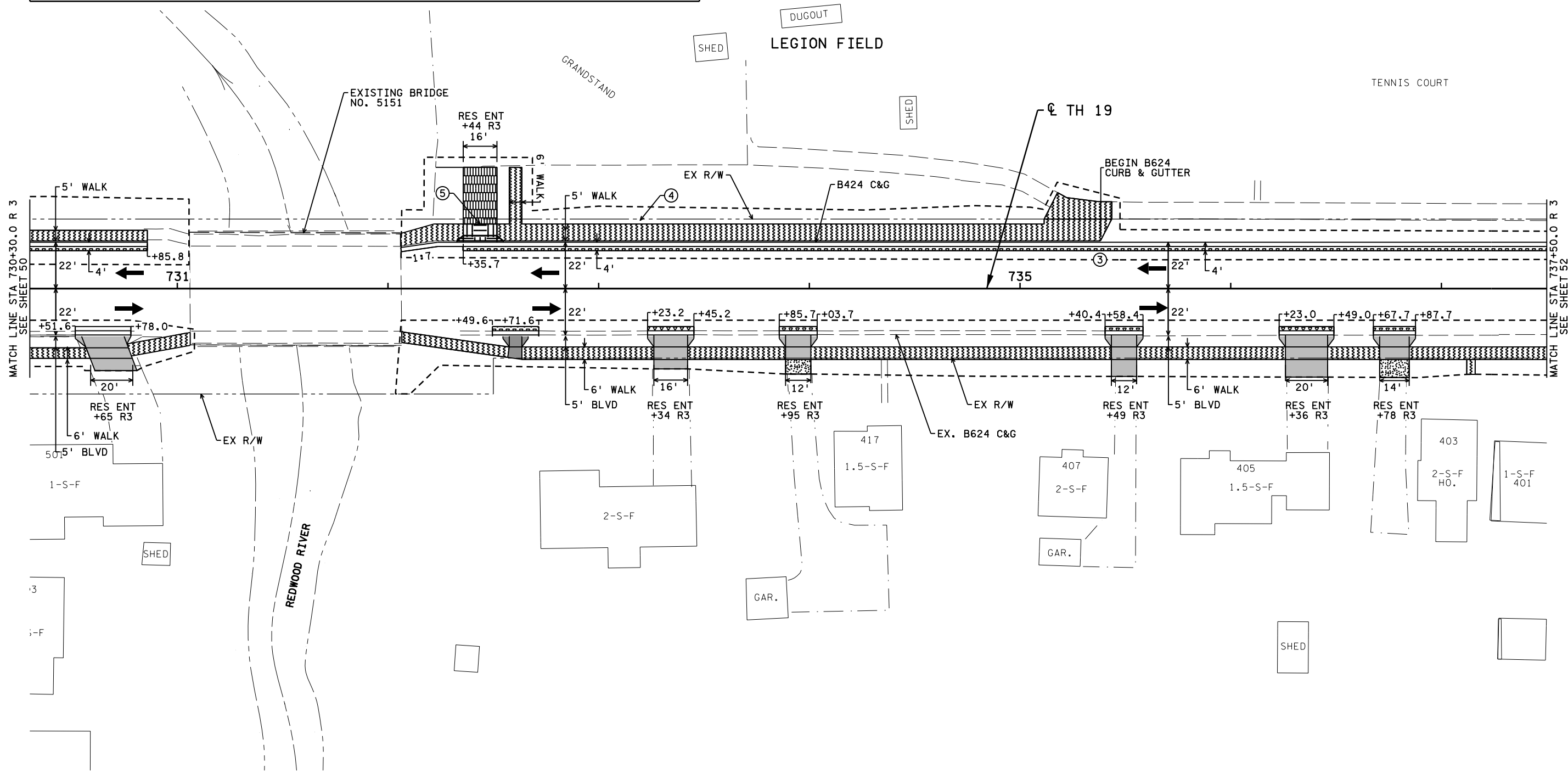
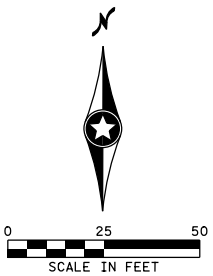
CONSTRUCTION LIMITS

TEMPORARY RIGHT TO CONSTRUCT

RIGHT OF WAY

FOR GENERAL NOTES SEE SHEET 50

- NOTES:
- ③ 5' CURB TRANSITION.
 - ④ INSTALL FENCE
 - ⑤ INSTALL VEHICULAR GATE



SHEET 2 OF 13 SHEETS

					I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.		STATE AID PROJECT NO. 139-111-007 139-112-006 139-115-004 139-122-007 139-124-005		DRAWN BY J. VAN BECK DESIGNED BY C. FIENUP CHECKED BY K. HARRISON			MINNESOTA DEPARTMENT OF TRANSPORTATION		SHEET 51 OF 122	
					Print Name: KYLE F. HARRISON		STATE PROJECT NO. 4204-40		COMM. NO. 2214743			CONSTRUCTION AND SUPERELEVATION PLANS SP 4204-40 (TH 19)			
NO DATE BY CKD APPR					Date License # 53658		CITY PROJECT NO. X								
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3" BITUMINOUS ENTRANCE - RESIDENTIAL

6" CONCRETE WALK

4" CONCRETE WALK

8" COMMERCIAL/ALLEY
CONCRETE DRIVEWAY PAVEMENT

6" RESIDENTIAL CONCRETE DRIVEWAY
PAVEMENT

AGGREGATE SURFACING (CV) CLASS 1

CONCRETE CURB RAMP WALK

BITUMINOUS PAVEMENT

SUPERELEVATION TRANSITION (FT/FT)

INPLACE PAVEMENT

PROPOSED CONSTRUCTION

DIRECTION OF TRAFFIC

CONSTRUCTION LIMITS

TEMPORARY RIGHT TO CONSTRUCT

RIGHT OF WAY

LEGEND

FOR GENERAL NOTES SEE SHEET 50

REDWOOD RIVER

NOTES:

④ INSTALL FENCE

⑦ INSTALL LANDSCAPE ROCK

⑩ 6" CONCRETE VALLEY GUTTER

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Print Name: KYLE F. HARRISON
Date: License #: 53658

STATE AID PROJECT NO. 139-111-007
DESIGNED BY J. VAN BECK
C. FIENUP
CHECKED BY K. HARRISON
COMM. NO. 2214743
STATE PROJECT NO. 4204-40
CITY PROJECT NO. X

MINNESOTA DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND SUPERELEVATION PLANS
SP 4204-40 (TH 19)

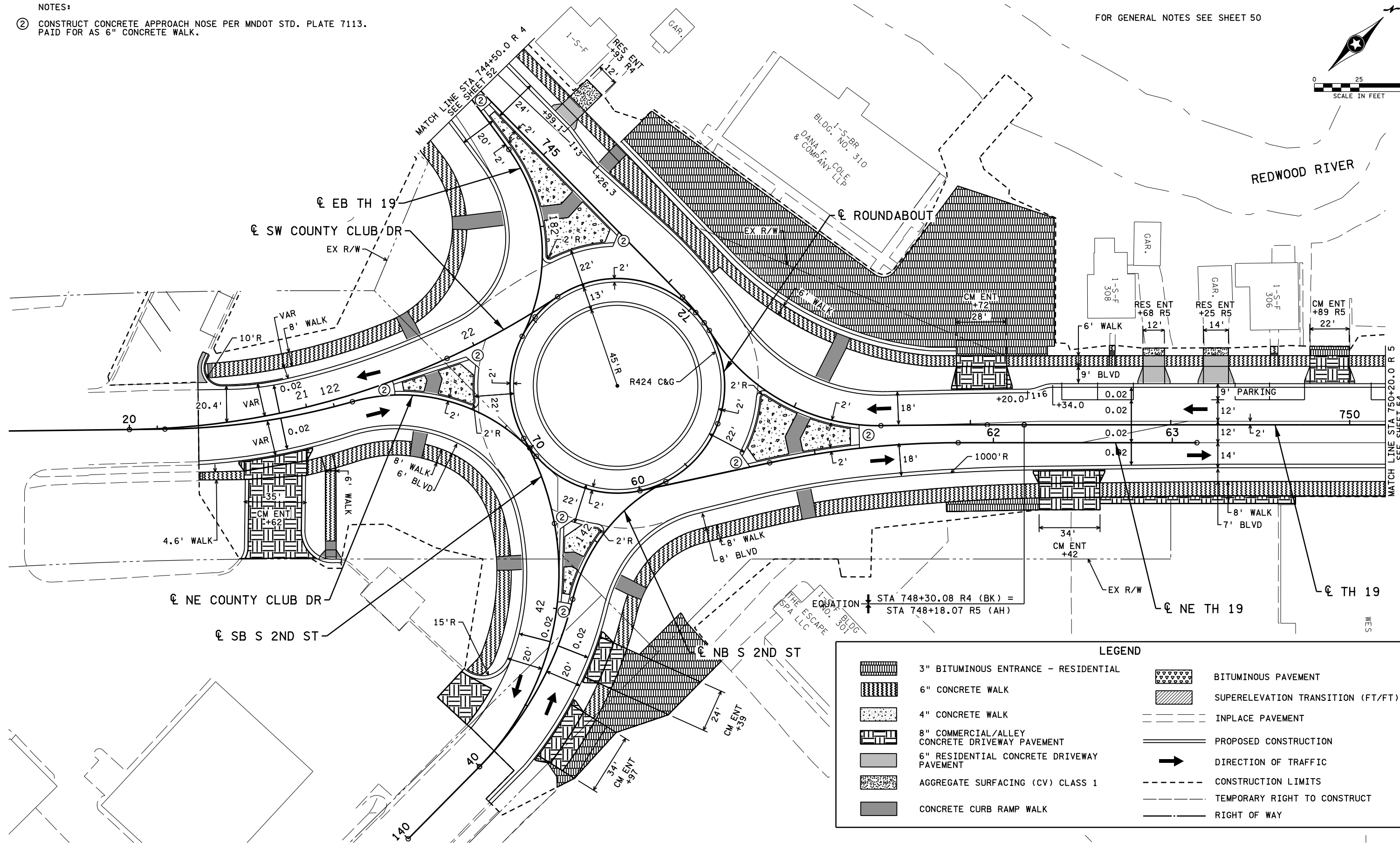
SHEET 52 OF 122

SHEET 3 OF 13 SHEETS

NO	DATE	BY	CKD	APPR	REVISION

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② CONSTRUCT CONCRETE APPROACH NOSE PER MNDOT STD. PLATE 7113.
PAID FOR AS 6" CONCRETE WALK.



SHEET
53
OF
122

CONSTRUCTION AND SUPERELEVATION PLANS
SP 4204-40 (TH 19)

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: KYLE F. HARRISON

Date	License #	53658
------	-----------	-------

STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005

STATE PROJECT NO. 4204-40

CITY PROJECT NO. X

DRAWN BY

J. VAN BECK

DESIGNED BY

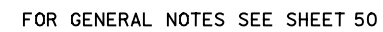
C. FIENUP

CHECKED BY

K. HARRISON

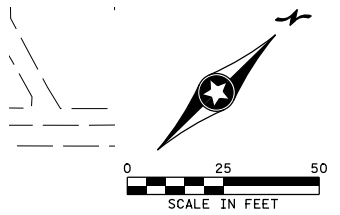
DMM. NO. 2214

SRF



NOTES:

⑪ CONCRETE STEPS



I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: KYLE F. HARRISON

Date License # 53658

DRAWN BY J. VAN BECK
DESIGNED BY C. FIENUP
CHECKED BY K. HARRISON
COMM. NO. 2214743



MINNESOTA DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND SUPERELEVATION PLANS
SP 4204-40 (TH 19)

SHEET
54
OF
122

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3" BITUMINOUS ENTRANCE - RESIDENTIAL

6" CONCRETE WALK

4" CONCRETE WALK

8" COMMERCIAL/ALLEY
CONCRETE DRIVEWAY PAVEMENT

6" RESIDENTIAL CONCRETE DRIVEWAY
PAVEMENT

AGGREGATE SURFACING (CV) CLASS 1

CONCRETE CURB RAMP WALK

BITUMINOUS PAVEMENT

SUPERELEVATION TRANSITION (FT/FT)

INPLACE PAVEMENT

PROPOSED CONSTRUCTION

DIRECTION OF TRAFFIC

CONSTRUCTION LIMITS

TEMPORARY RIGHT TO CONSTRUCT

RIGHT OF WAY

FOR GENERAL NOTES SEE SHEET 50

NOTES:

- ② CONSTRUCT CONCRETE APPROACH NOSE PER MNDOT STD. PLATE 7113. PAID FOR AS 6" CONCRETE WALK.
- ③ 5' CURB TRANSITION.
- ④ INSTALL FENCE
- ⑦ INSTALL LANDSCAPE ROCK

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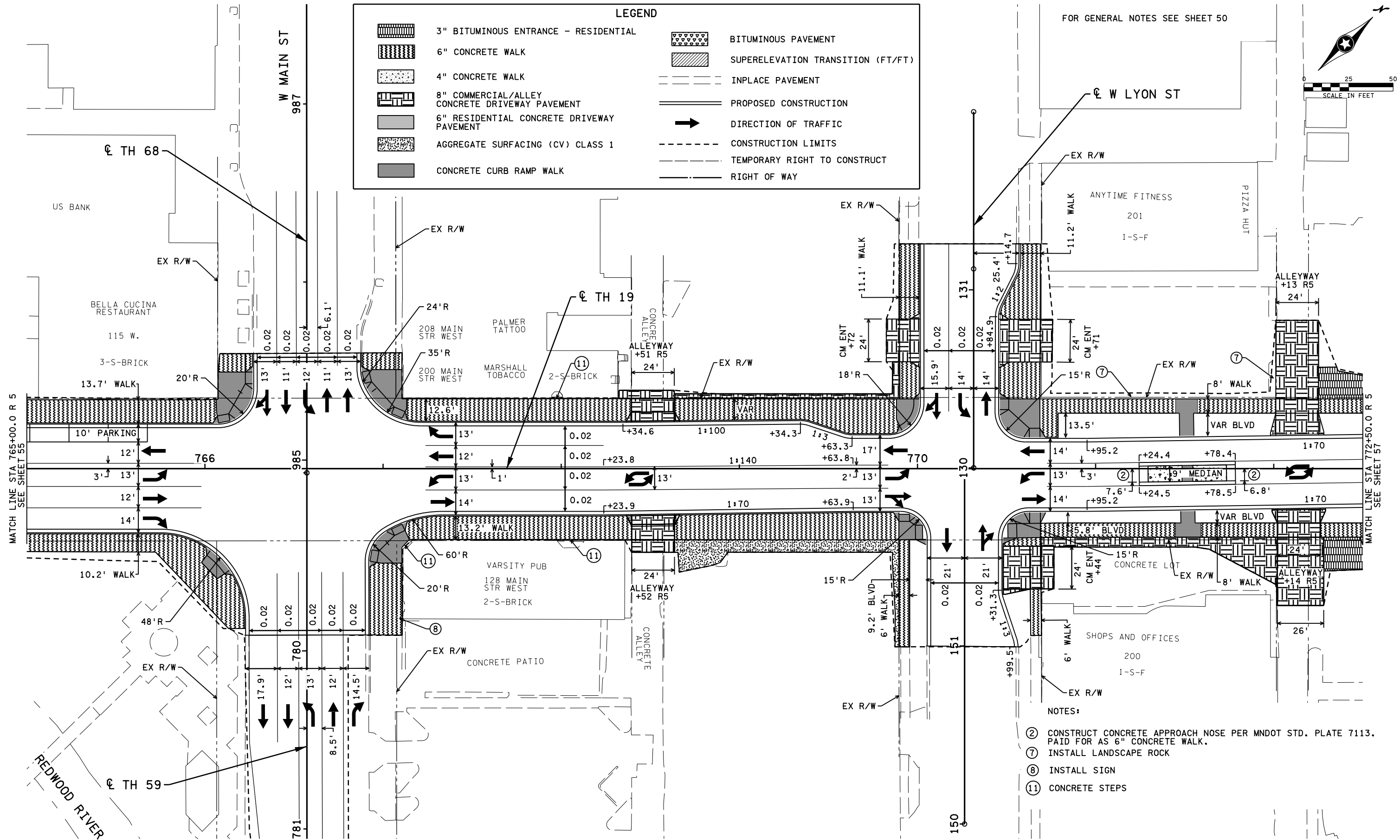
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SHEET 7 OF 13 SHEETS

NO	DATE	BY	CKD	APPR	REVISION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: KYLE F. HARRISON

Date: _____ License # 53658

STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005

STATE PROJECT NO.
4204-40

CITY PROJECT NO. X

DRAWN BY
J. VAN BECK

DESIGNED BY
C. FIENUP

CHECKED BY
K. HARRISON

COMM. NO. 2214743



MINNESOTA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION AND SUPERELEVATION PLANS

SP 4204-40 (TH 19)

SHEET
56
OF
122

3" BITUMINOUS ENTRANCE - RESIDENTIAL

6" CONCRETE WALK

4" CONCRETE WALK

8" COMMERCIAL/ALLEY
CONCRETE DRIVEWAY PAVEMENT

6" RESIDENTIAL CONCRETE DRIVEWAY
PAVEMENT

AGGREGATE SURFACING (CV) CLASS 1

CONCRETE CURB RAMP WALK

BITUMINOUS PAVEMENT

SUPERELEVATION TRANSITION (FT/FT)

INPLACE PAVEMENT

PROPOSED CONSTRUCTION

DIRECTION OF TRAFFIC

CONSTRUCTION LIMITS

TEMPORARY RIGHT TO CONSTRUCT

RIGHT OF WAY

LEGEND

FOR GENERAL NOTES SEE SHEET 50

NOTES:

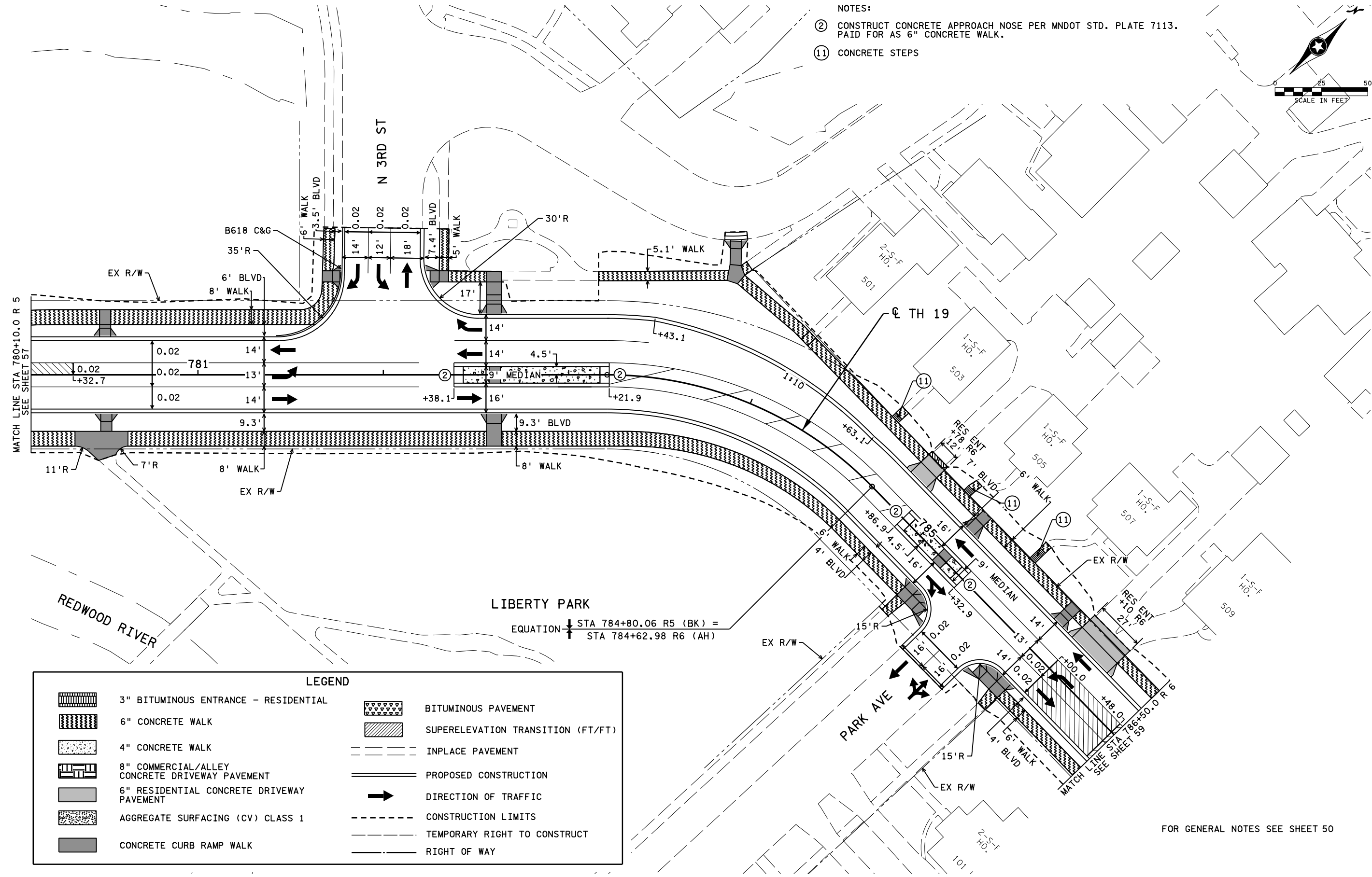
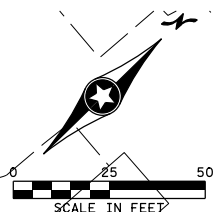
- ② CONSTRUCT CONCRETE APPROACH NOSE PER MNDOT STD. PLATE 7113.
PAID FOR AS 6" CONCRETE WALK.
- ⑨ INSTALL IRRIGATION SYSTEM

SHEET 8 OF 13 SHEETS

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota. Print Name: KYLE F. HARRISON Date: License #: 53658	STATE AID PROJECT NO. 139-111-007 139-112-006 139-115-004 139-122-007 139-124-005 STATE PROJECT NO. 4204-40 CITY PROJECT NO. X	DRAWN BY J. VAN BECK DESIGNED BY C. FIENUP CHECKED BY K. HARRISON COMM. NO. 2214743		MINNESOTA DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND SUPERELEVATION PLANS SP 4204-40 (TH 19)	SHEET 57 OF 122

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- NOTES:
- ② CONSTRUCT CONCRETE APPROACH NOSE PER MNDOT STD. PLATE 7113. PAID FOR AS 6" CONCRETE WALK.
 - ⑪ CONCRETE STEPS



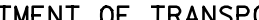
LIBERTY PARK

EQUATION $\downarrow$ STA 784+80.06 R 5 (BK) =
 $\uparrow$ STA 784+62.98 R 6 (AH)

LEGEND	
	3" BITUMINOUS ENTRANCE - RESIDENTIAL
	6" CONCRETE WALK
	4" CONCRETE WALK
	8" COMMERCIAL/ALLEY CONCRETE DRIVEWAY PAVEMENT
	6" RESIDENTIAL CONCRETE DRIVEWAY PAVEMENT
	AGGREGATE SURFACING (CV) CLASS 1
	CONCRETE CURB RAMP WALK
	BITUMINOUS PAVEMENT
	SUPERELEVATION TRANSITION (FT/FT)
	INPLACE PAVEMENT
	PROPOSED CONSTRUCTION
	DIRECTION OF TRAFFIC
	CONSTRUCTION LIMITS
	TEMPORARY RIGHT TO CONSTRUCT
	RIGHT OF WAY

FOR GENERAL NOTES SEE SHEET 50

SHEET 9 OF 13 SHEETS

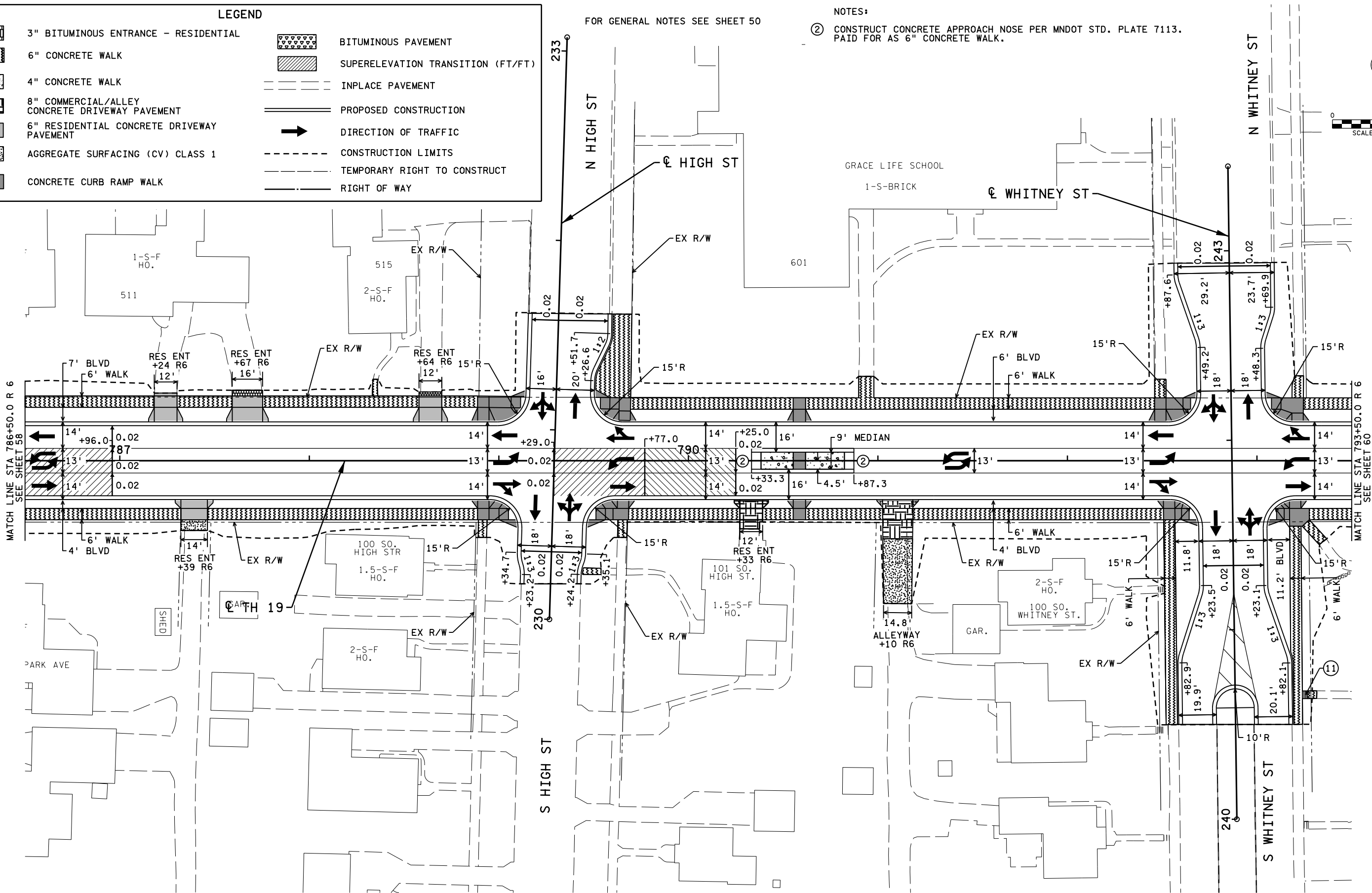
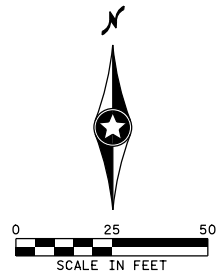
					I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota. Print Name: KYLE F. HARRISON Date: License # 53658	STATE AID PROJECT NO. 139-111-007 139-112-006 139-115-004 139-122-007 139-124-005 STATE PROJECT NO. 4204-40 CITY PROJECT NO. X	DRAWN BY J. VAN BECK DESIGNED BY C. FIENUP CHECKED BY K. HARRISON COMM. NO. 2214743		MINNESOTA DEPARTMENT OF TRANSPORTATION		SHEET 58 OF 122
									CONSTRUCTION AND SUPERELEVATION PLANS SP 4204-40 (TH 19)		
NO	DATE	BY	CKD	APPR	REVISION						
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	3" BITUMINOUS ENTRANCE - RESIDENTIAL		BITUMINOUS PAVEMENT
	6" CONCRETE WALK		SUPERELEVATION TRANSITION (FT/FT)
	4" CONCRETE WALK		INPLACE PAVEMENT
	8" COMMERCIAL/ALLEY CONCRETE DRIVEWAY PAVEMENT		PROPOSED CONSTRUCTION
	6" RESIDENTIAL CONCRETE DRIVEWAY PAVEMENT		DIRECTION OF TRAFFIC
	AGGREGATE SURFACING (CV) CLASS 1		CONSTRUCTION LIMITS
	CONCRETE CURB RAMP WALK		TEMPORARY RIGHT TO CONSTRUCT
			RIGHT OF WAY

FOR GENERAL NOTES SEE SHEET 50

- NOTES:
- ② CONSTRUCT CONCRETE APPROACH NOSE PER MNDOT STD. PLATE 7113. PAID FOR AS 6" CONCRETE WALK.



SHEET 10 OF 13 SHEETS

NO	DATE	BY	CKD	APPR	REVISION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: KYLE F. HARRISON

Date: License # 53658

STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005

STATE PROJECT NO.
4204-40

CITY PROJECT NO. X

DRAWN BY
J. VAN BECK

DESIGNED BY
C. FIENUP

CHECKED BY
K. HARRISON

COMM. NO. 2214743



MINNESOTA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION AND SUPERELEVATION PLANS

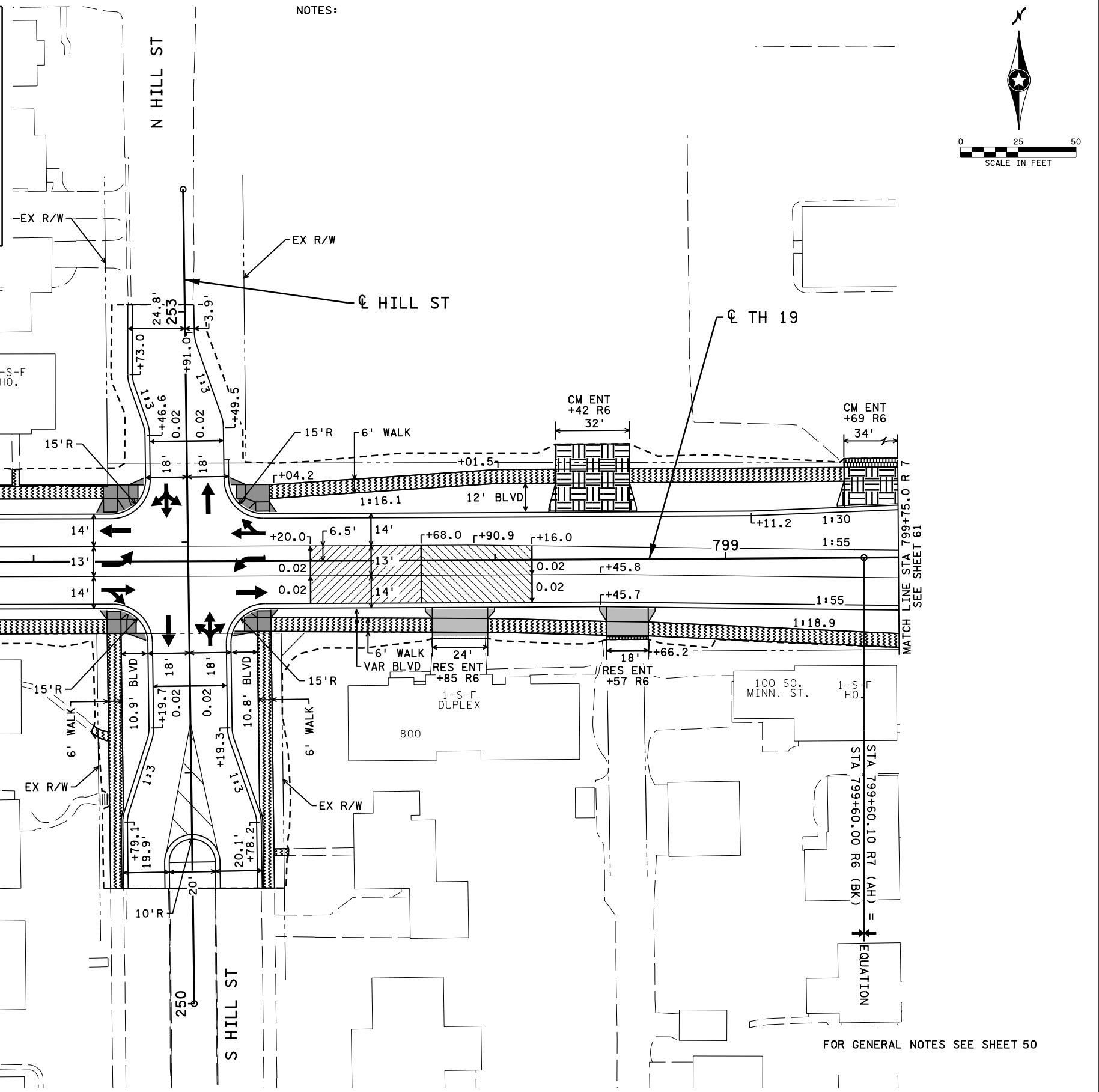
SP 4204-40 (TH 19)

SHEET

59

OF

122



SHEET 11 OF 13 SHEETS

										I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.										STATE AID PROJECT NO. 139-111-007 139-112-006 139-115-004 139-122-007 139-124-005										DRAWN BY J. VAN BECK DESIGNED BY C. FIENUP CHECKED BY K. HARRISON																				MINNESOTA DEPARTMENT OF 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										Print Name: KYLE F. HARRISON										STATE PROJECT NO. 4204-40										CITY PROJECT NO. X COMM. NO. 2214743																				CONSTRUCTION AND SUPERELEVATION PLANS SP 4204-40 (TH 19)																				60 OF 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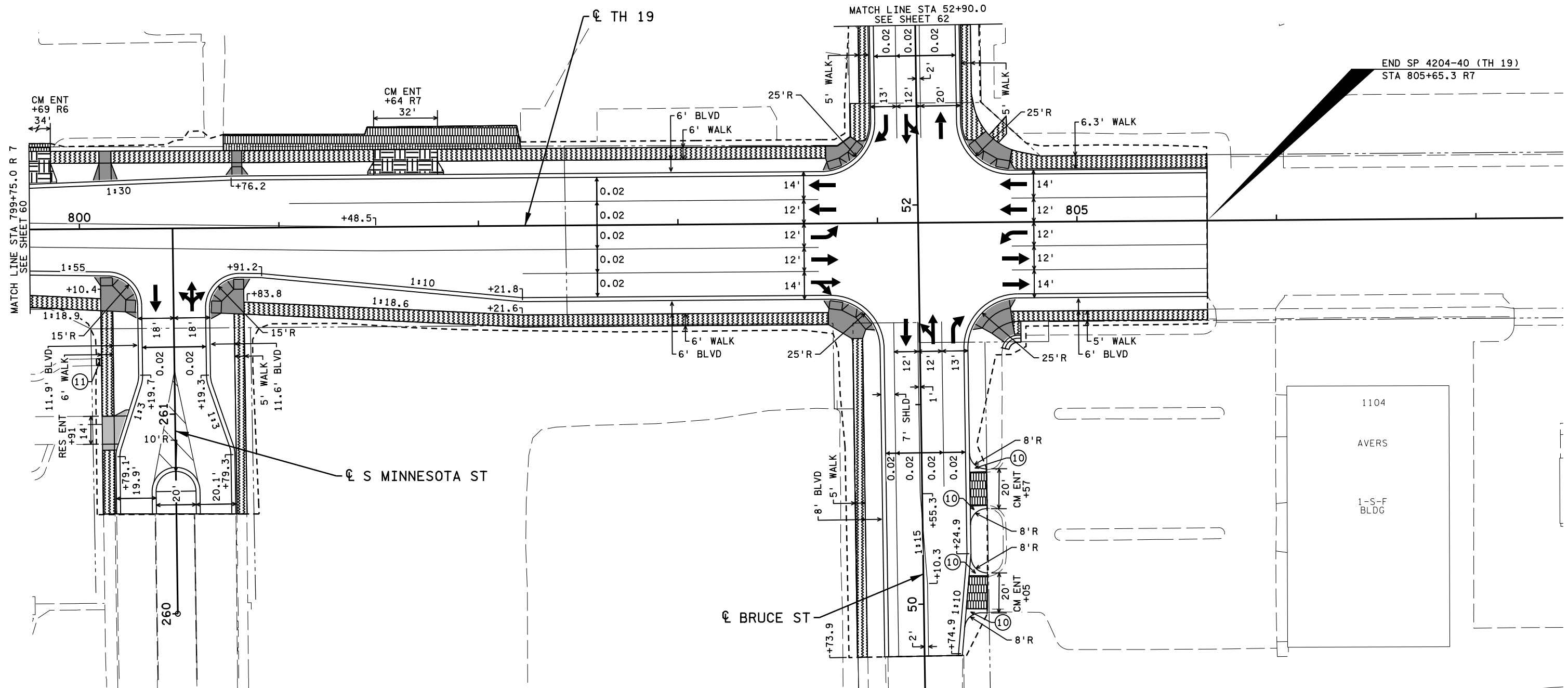
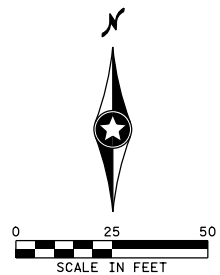
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LEGEND			
	3" BITUMINOUS ENTRANCE - RESIDENTIAL		BITUMINOUS PAVEMENT
	6" CONCRETE WALK		SUPERELEVATION TRANSITION (FT/FT)
	4" CONCRETE WALK		INPLACE PAVEMENT
	8" COMMERCIAL/ALLEY CONCRETE DRIVEWAY PAVEMENT		PROPOSED CONSTRUCTION
	6" RESIDENTIAL CONCRETE DRIVEWAY PAVEMENT		DIRECTION OF TRAFFIC
	AGGREGATE SURFACING (CV) CLASS 1		CONSTRUCTION LIMITS
	CONCRETE CURB RAMP WALK		TEMPORARY RIGHT TO CONSTRUCT
			RIGHT OF WAY

FOR GENERAL NOTES SEE SHEET 50

NOTES:
(10) 6" CONCRETE VALLEY GUTTER



SHEET 12 OF 13 SHEETS

NO	DATE	BY	CKD	APPR	REVISION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Print Name: KYLE F. HARRISON
Date: License #: 53658

STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005
STATE PROJECT NO.
4204-40
CITY PROJECT NO. X

DRAWN BY
J. VAN BECK
DESIGNED BY
C. FIENUP
CHECKED BY
K. HARRISON
COMM. NO. 2214743



MINNESOTA DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND SUPERELEVATION PLANS
SP 4204-40 (TH 19)

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OF
122

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LEGEND

3" BITUMINOUS ENTRANCE - RESIDENTIAL

6" CONCRETE WALK

4" CONCRETE WALK

8" COMMERCIAL/ALLEY
CONCRETE DRIVEWAY PAVEMENT

6" RESIDENTIAL CONCRETE DRIVEWAY
PAVEMENT

AGGREGATE SURFACING (CV) CLASS 1

CONCRETE CURB RAMP WALK

BITUMINOUS PAVEMENT

SUPERELEVATION TRANSITION (FT/FT)

INPLACE PAVEMENT

PROPOSED CONSTRUCTION

DIRECTION OF TRAFFIC

CONSTRUCTION LIMITS

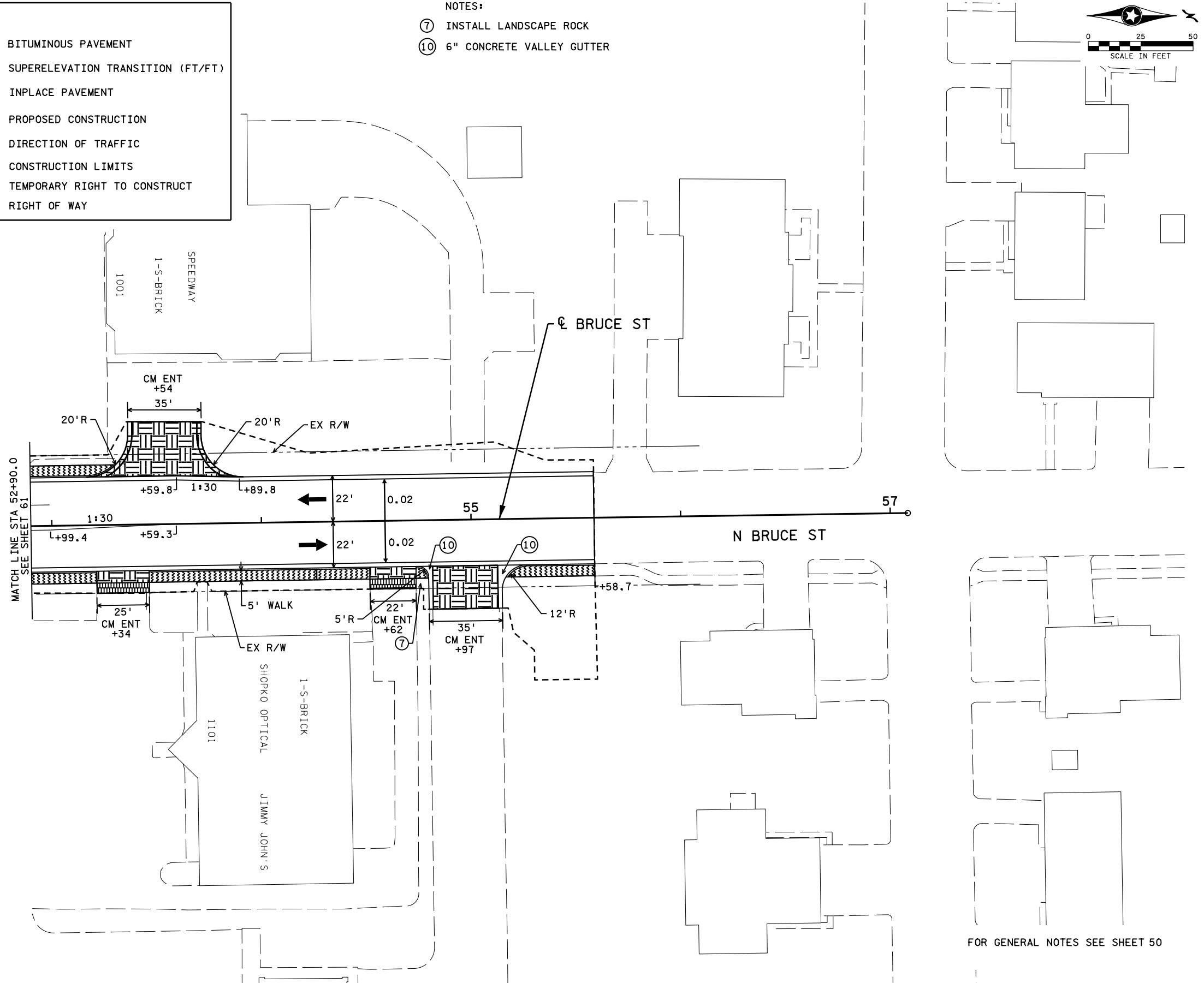
TEMPORARY RIGHT TO CONSTRUCT

RIGHT OF WAY

- NOTES:
- 7

INSTALL LANDSCAPE ROCK
- 10

6" CONCRETE VALLEY GUTTER

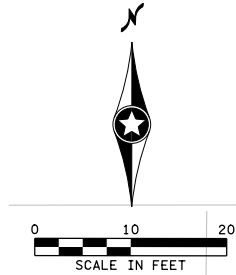


FOR GENERAL NOTES SEE SHEET 50

SHEET 13 OF 13 SHEETS

					I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.		STATE AID PROJECT NO. 139-111-007 139-112-006 139-115-004 139-122-007 139-124-005		DRAWN BY J. VAN BECK			MINNESOTA DEPARTMENT OF TRANSPORTATION		SHEET 62 OF 122
					Print Name: KYLE F. HARRISON		DESIGNED BY C. FIENUP		CHECKED BY K. HARRISON			CONSTRUCTION AND SUPERELEVATION PLANS		
					Date _____ License # 53658		STATE PROJECT NO. 4204-40		COMM. NO. 2214743			SP 4204-40 (TH 19)		
NO	DATE	BY	CKD	APPR	REVISION		CITY PROJECT NO. X							

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P.C. = POINT OF CURVATURE
P.T. = POINT OF TANGENCY
P.O.C. = POINT ON CURVE
P.C.C. = POINT OF COMPOUND CURVE
P.O.T. = POINT ON TANGENT

XXX' R = RADIUS OF CURVE
RXXX = RADIUS POINT

→ DRAINAGE FLOW ARROW
Ⓢ INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE IN BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%

Ⓣ INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%

=== CONCRETE CURB & GUTTER
▢ TRUNCATED DOMES (SEE STANDARD PLATE 7038)
■ PROPOSED CATCH BASIN
■ GUTTER OUTFLOW

▨ LANDING AREA - 4' X 4' MIN. DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS

X" CURB HEIGHT

XXX CONTROL POINTS

◀ PROPOSED APRON

● LIGHTING UNIT

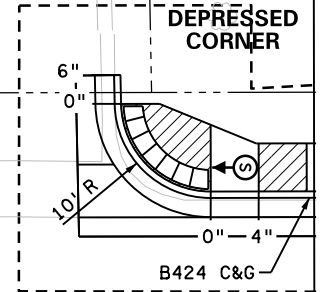
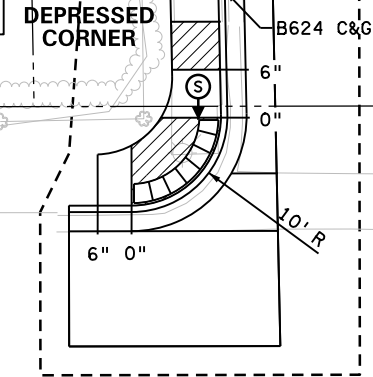
--- TEMP EASEMENT

--- R/W

--- EXISTING R/W

--- CONSTRUCTION LIMITS

LEGION FIELD RD



CL TH 19

726

727

728

MARLENE ST

DEPRESSED CORNER

PERPENDICULAR

PERPENDICULAR

RES ENT
+72 R3

RES ENT
+11 R3

MATCHLINE T.H. 19 STA 728+25.00 R3

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NO	DATE	BY	CKD	APPR	REVISION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Print Name: JASON T. TSCHIDA
Date 11/17/2022 License # 58720

STATE AID PROJECT NO. X
STATE PROJECT NO. X
COUNTY PROJECT NO. X
CITY PROJECT NO. X

DRAWN BY Y. LI
DESIGNED BY Y. LI
CHECKED BY J. TSCHIDA
COMM. NO. XXXXXXXX



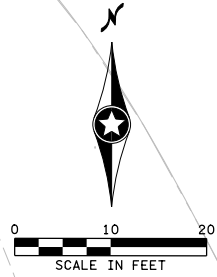
MINNESOTA DEPARTMENT OF TRANSPORTATION

INTERSECTION AND ADA PLANS
SP 4204-40 (TH 19)

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63
OF
122

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MATCHLINE T.H. 19 STA 731+18.00 R3



732

CL TH 19

733

734

MATCHLINE T.H. 19 STA 734+10.00 R3

RES ENT
+44 R3

6' WALK

8' WALK

B424 C&G

6" 4" 0" 0" 4" 6" B624 C&G

6' WALK

6" 1" 1" 6" B624 C&G

B624 C&G

6" 1" 1" 6" B624 C&G

RES ENT
+34 R3

RES ENT
+95 R3

PERPENDICULAR

GENERAL NOTES:

SEE SHEET 63 FOR LEGEND.

SEE CONSTRUCTION PLANS FOR
ROADWAY DIMENSIONS.

NO	DATE	BY	CKD	APPR	REVISION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: JASON T. TSCHIDA

Date 11/17/2022 License # 58720

STATE AID PROJECT NO.
X
STATE PROJECT NO.
X
COUNTY PROJECT NO.
X
CITY PROJECT NO. X

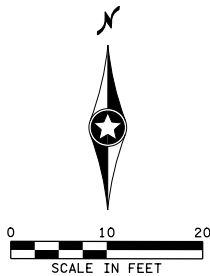
DRAWN BY
Y. LI
DESIGNED BY
Y. LI
CHECKED BY
J. TSCHIDA
COMM. NO. XXXXXXX



MINNESOTA DEPARTMENT OF TRANSPORTATION

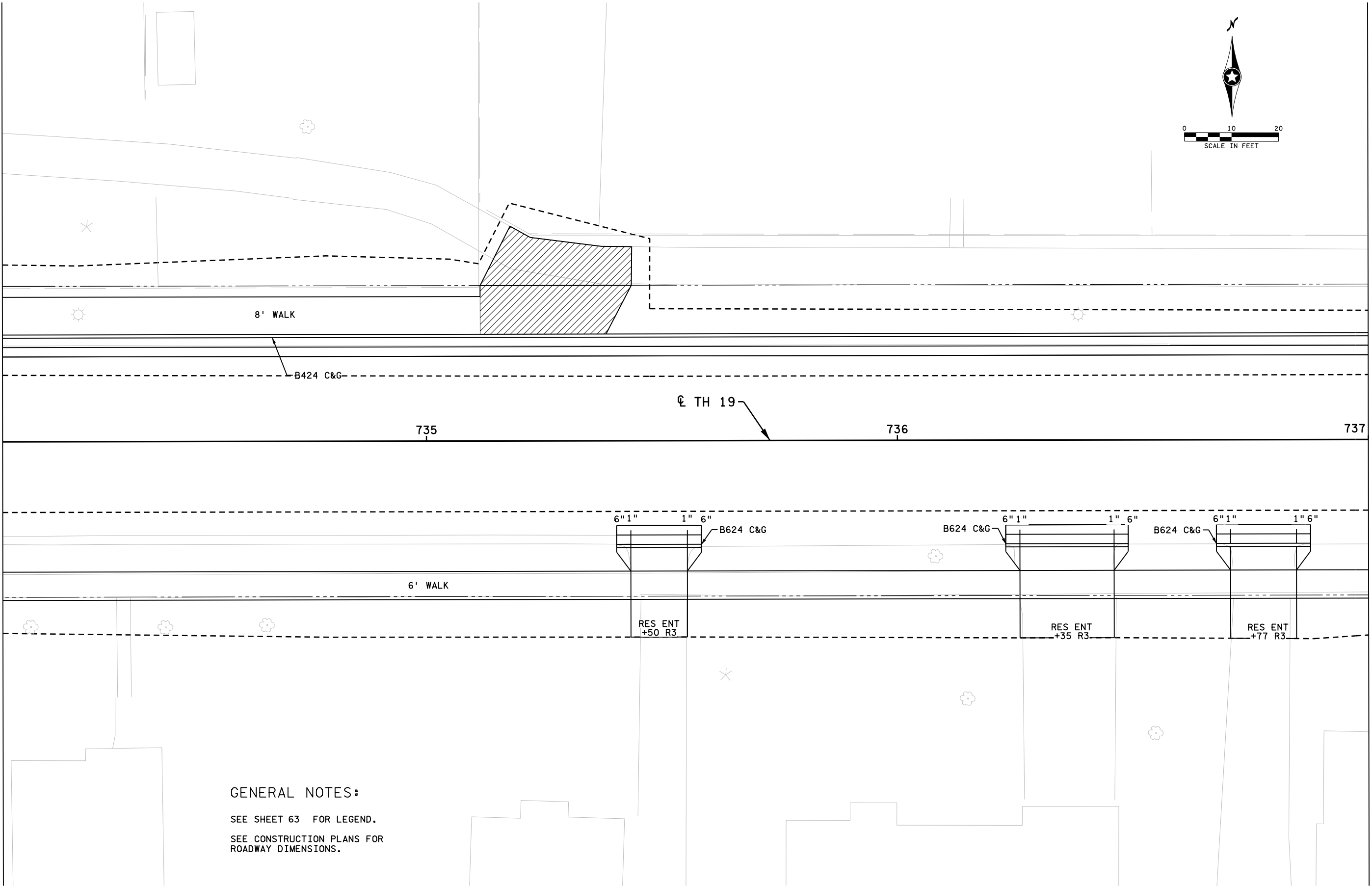
INTERSECTION AND ADA PLANS
SP 4204-40 (TH 19)

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OF
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MATCHLINE T.H. 19 STA 734+10.00 R3

MATCHLINE T.H. 19 STA 737+00.00 R3



GENERAL NOTES:

SEE SHEET 63 FOR LEGEND.
SEE CONSTRUCTION PLANS FOR
ROADWAY DIMENSIONS.

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NO	DATE	BY	CKD	APPR	REVISION
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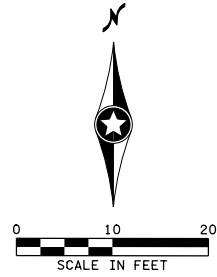
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Print Name: JASON T. TSCHIDA
Date 11/17/2022 License # 58720

STATE AID PROJECT NO. X	DRAWN BY Y. LI
STATE PROJECT NO. X	DESIGNED BY Y. LI
COUNTY PROJECT NO. X	CHECKED BY J. TSCHIDA
CITY PROJECT NO. X	COMM. NO. XXXXXXX

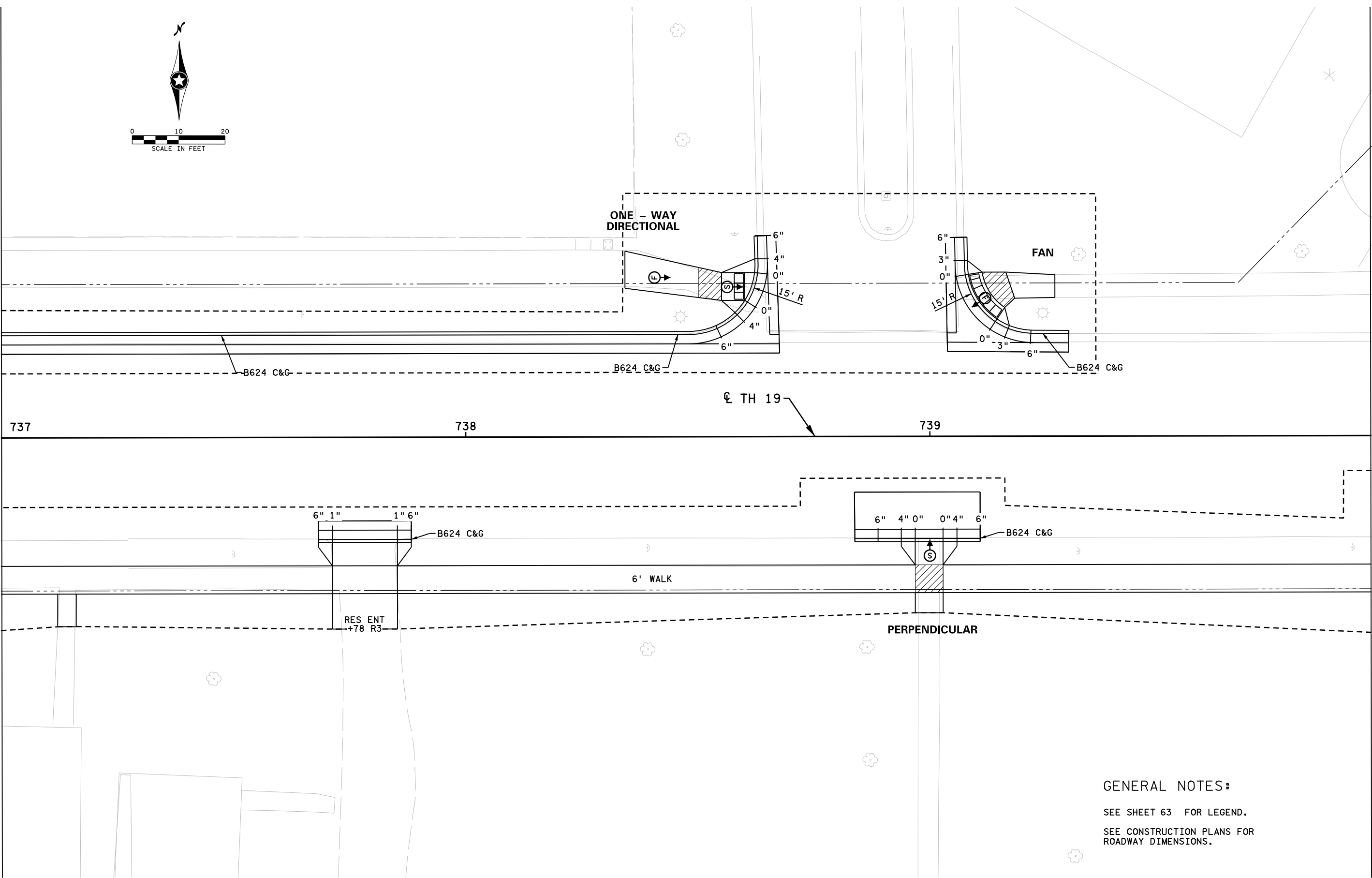


MINNESOTA DEPARTMENT OF TRANSPORTATION
INTERSECTION AND ADA PLANS SP 4204-40 (TH 19)

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OF
122



MATCHLINE T.H. 19 STA 737+00.00 R3



MATCHLINE T.H. 19 STA 739+95.00 R3

GENERAL NOTES:

SEE SHEET 63 FOR LEGEND.

SEE CONSTRUCTION PLANS FOR ROADWAY DIMENSIONS.

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NO	DATE	BY	CKD	APPR	REVISION
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Print Name: JASON T. TSCHIDA

Date 11/17/2022 License # 58720

STATE AID PROJECT NO. X
STATE PROJECT NO. X
COUNTY PROJECT NO. X
CITY PROJECT NO. X

DRAWN BY Y. LI
DESIGNED BY Y. LI
CHECKED BY J. TSCHIDA
COMM. NO. XXXXXXX



MINNESOTA DEPARTMENT OF TRANSPORTATION

INTERSECTION AND ADA PLANS
SP 4204-40 (TH 19)

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MATCHLINE T.H. 19 STA 739+95.00 R3

GENERAL NOTES:

SEE SHEET 63 FOR LEGEND.

SEE CONSTRUCTION PLANS FOR
ROADWAY DIMENSIONS.

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DIRECTIONAL

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MINNESOTA DEPARTMENT OF TRANSPORTATION

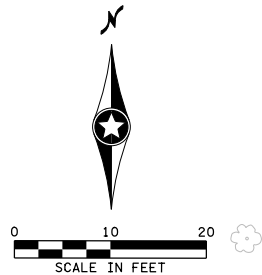
INTERSECTION AND ADA PLANS
SP 4204-40 (TH 19)

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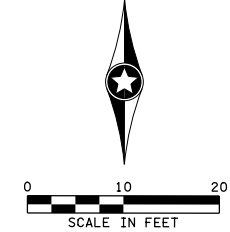
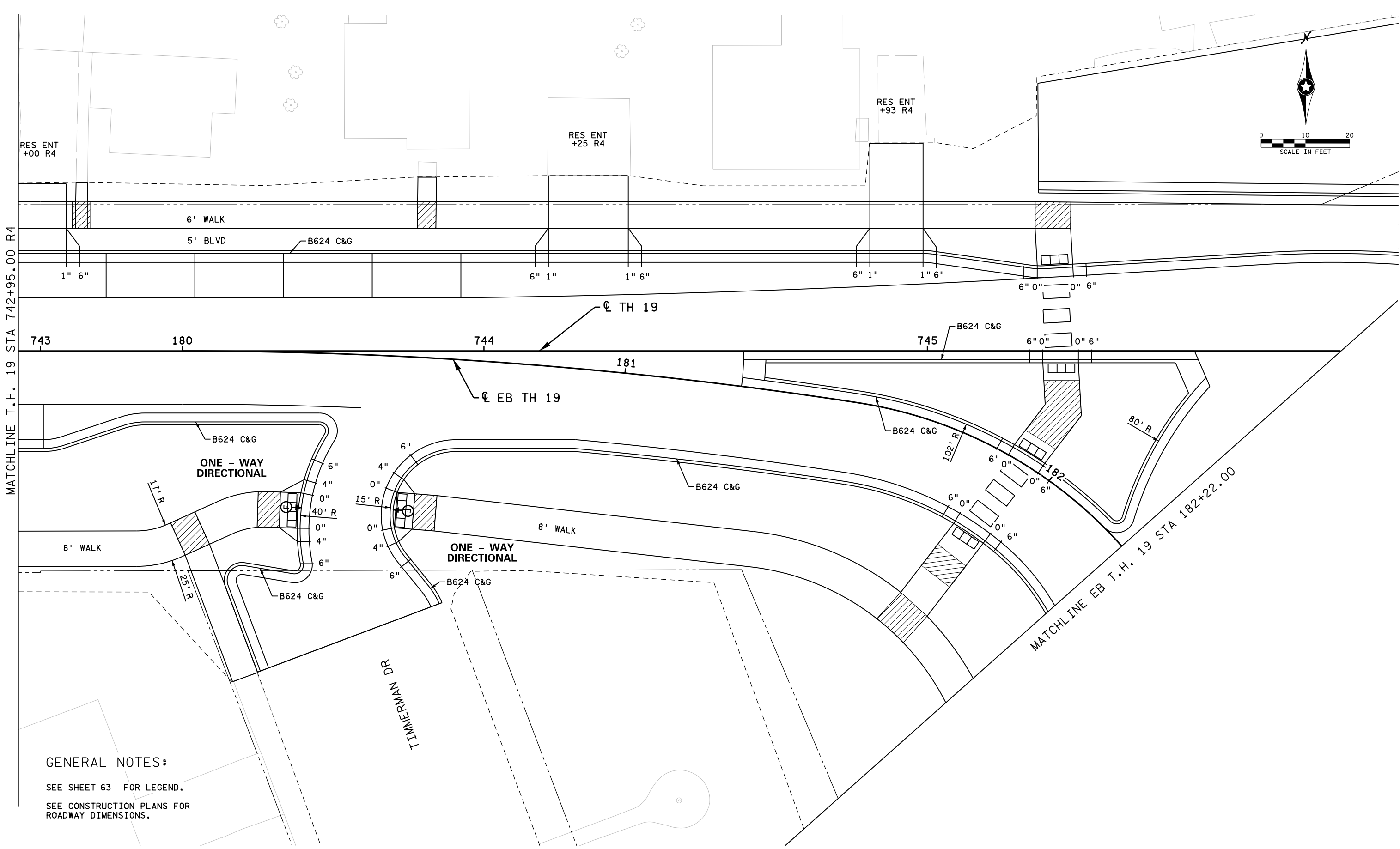
I hereby certify that this plan, specification, or report
was prepared by me or under my direct supervision and
that I am a duly Licensed Professional Engineer under
the laws of the State of Minnesota.
Print Name: JASON T. TSCHIDA
Date 11/17/2022 License # 58720

STATE AID PROJECT NO.
X
STATE PROJECT NO.
X
COUNTY PROJECT NO.
X
CITY PROJECT NO. X

DRAWN BY
Y. LI
DESIGNED BY
Y. LI
CHECKED BY
J. TSCHIDA
COMM. NO. XXXXXXX



MATCHLINE T.H. 19 STA 742+95.00 R4



GENERAL NOTES:
SEE SHEET 63 FOR LEGEND.
SEE CONSTRUCTION PLANS FOR
ROADWAY DIMENSIONS.

NO	DATE	BY	CKD	APPR	REVISION
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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Print Name: JASON T. TSCHIDA
Date 11/17/2022 License # 58720

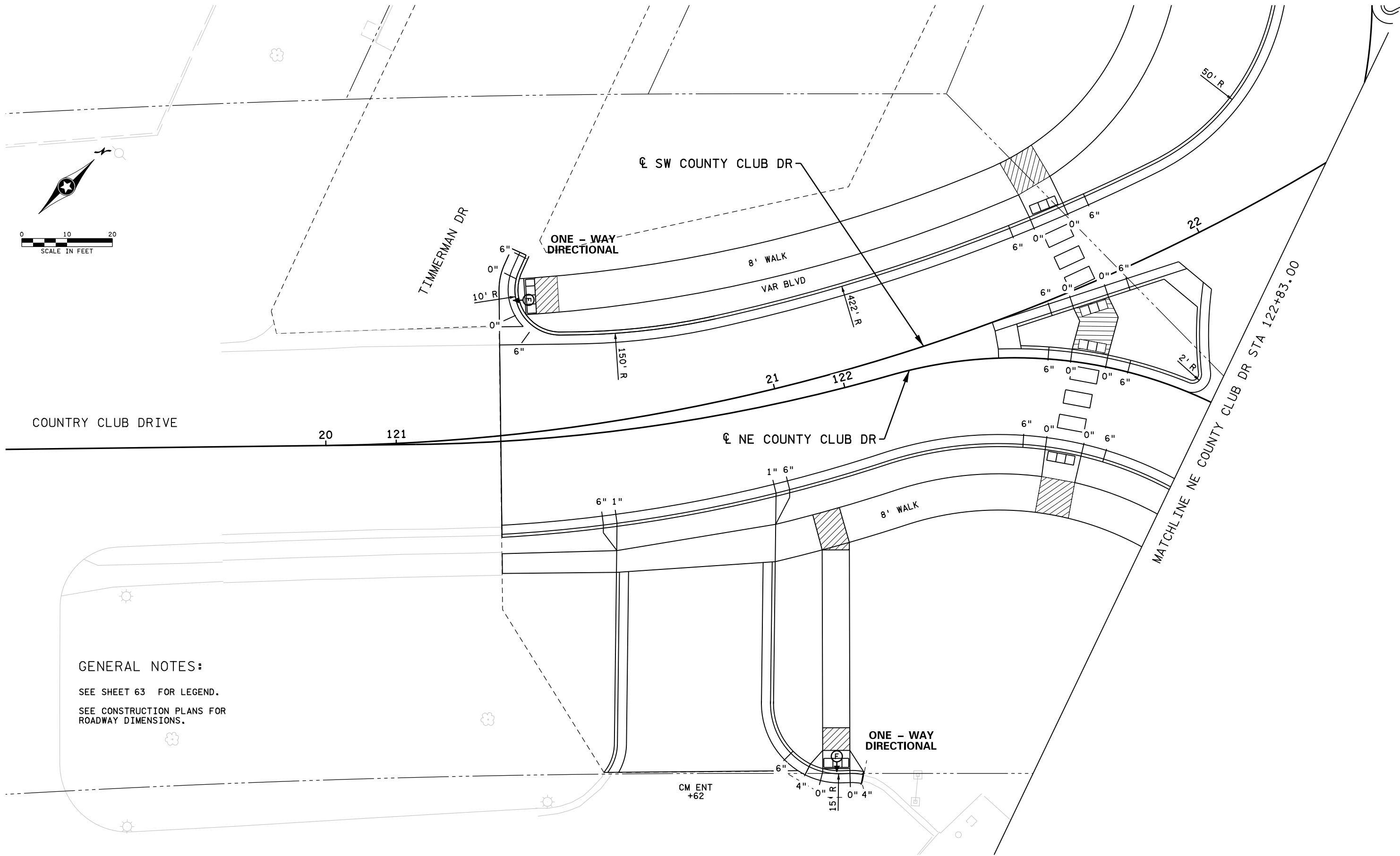
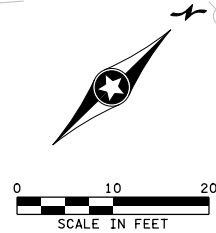
STATE AID PROJECT NO. X	DRAWN BY Y. LI
STATE PROJECT NO. X	DESIGNED BY Y. LI
COUNTY PROJECT NO. X	CHECKED BY J. TSCHIDA
CITY PROJECT NO. X	COMM. NO. XXXXXXX



MINNESOTA DEPARTMENT OF TRANSPORTATION
INTERSECTION AND ADA PLANS SP 4204-40 (TH 19)

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GENERAL NOTES:

SEE SHEET 63 FOR LEGEND.

SEE CONSTRUCTION PLANS FOR ROADWAY DIMENSIONS.

NO	DATE	BY	CKD	APPR	REVISION
od420440_in08.dgn					

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: JASON T. TSCHIDA

Date 11/17/2022 License # 58720

STATE AID PROJECT NO. X	DRAWN BY Y. LI
STATE PROJECT NO. X	DESIGNED BY Y. LI
COUNTY PROJECT NO. X	CHECKED BY J. TSCHIDA
CITY PROJECT NO. X	COMM. NO. XXXXXXX



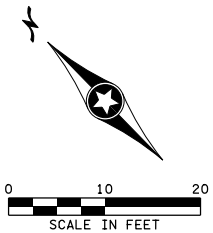
MINNESOTA DEPARTMENT OF TRANSPORTATION

INTERSECTION AND ADA PLANS
SP 4204-40 (TH 19)

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MATCHLINE T.H.19 STA 746+92.00 R4



GENERAL NOTES:
SEE SHEET 63 FOR LEGEND.
SEE CONSTRUCTION PLANS FOR
ROADWAY DIMENSIONS.

MATCHLINE EB T.H. 19 STA 182+22.00

MATCHLINE NECD STA 122+83.00

NO	DATE	BY	CKD	APPR	REVISION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: JASON T. TSCHIDA

Date 11/17/2022 License # 58720

STATE AID PROJECT NO. X
STATE PROJECT NO. X
COUNTY PROJECT NO. X
CITY PROJECT NO. X

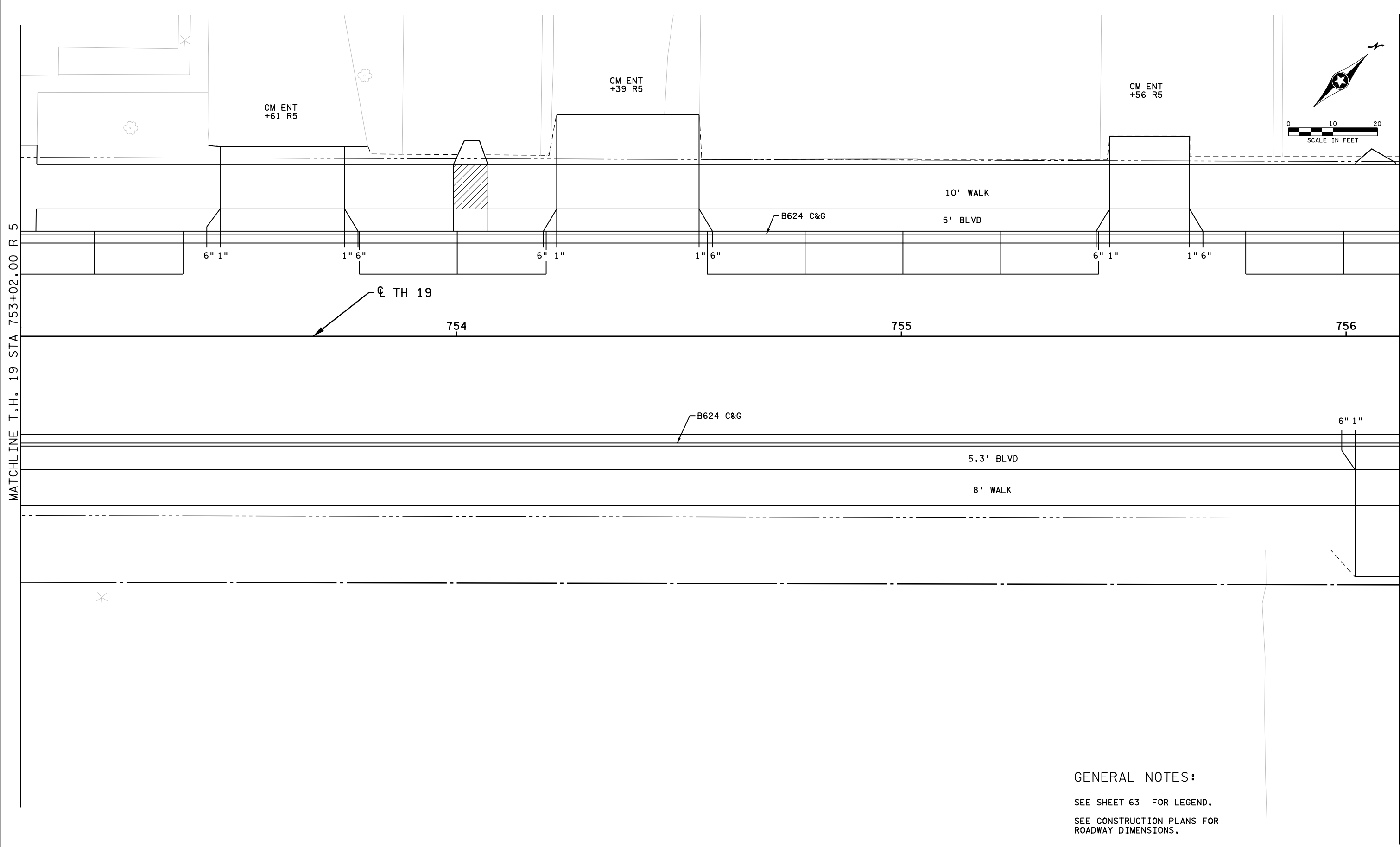
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DESIGNED BY Y. LI
CHECKED BY J. TSCHIDA
COMM. NO. XXXXXXX



MINNESOTA DEPARTMENT OF TRANSPORTATION
INTERSECTION AND ADA PLANS
SP 4204-40 (TH 19)

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GENERAL NOTES:

SEE SHEET 63 FOR LEGEND.

SEE CONSTRUCTION PLANS FOR
ROADWAY DIMENSIONS.

NO	DATE	BY	CKD	APPR	REVISION
od420440_in12.dgn					

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: JASON T. TSCHIDA

Date 11/17/2022 License # 58720

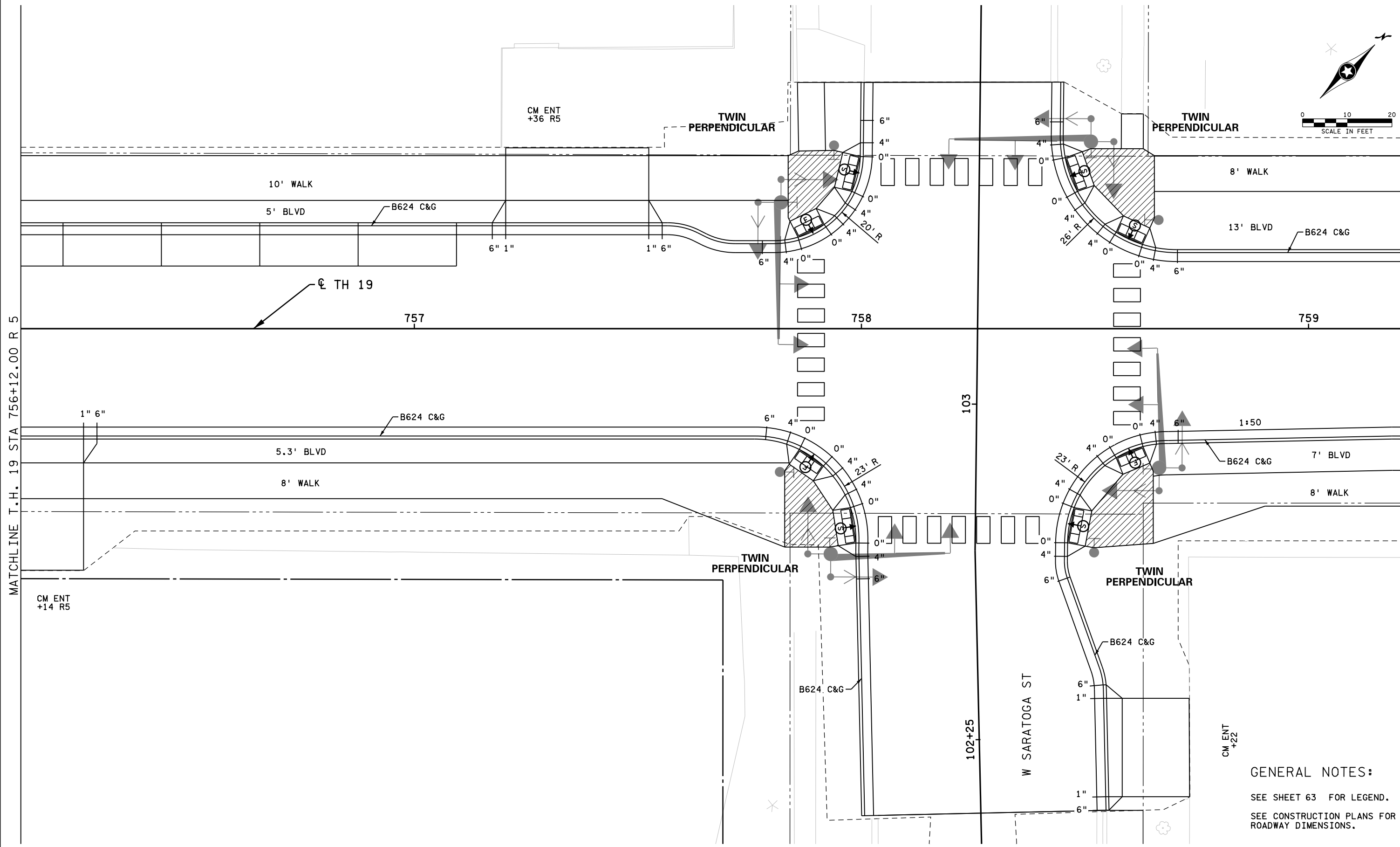
STATE AID PROJECT NO. X	DRAWN BY Y. LI
STATE PROJECT NO. X	DESIGNED BY Y. LI
COUNTY PROJECT NO. X	CHECKED BY J. TSCHIDA
CITY PROJECT NO. X	COMM. NO. XXXXXXX



MINNESOTA DEPARTMENT OF TRANSPORTATION
INTERSECTION AND ADA PLANS SP 4204-40 (TH 19)

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OF
122

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NO	DATE	BY	CKD	APPR	REVISION

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Print Name: JASON T. TSCHIDA

Date 11/17/2022 License # 58720

STATE AID PROJECT NO. X
STATE PROJECT NO. X
COUNTY PROJECT NO. X
CITY PROJECT NO. X

DRAWN BY Y. LI
DESIGNED BY Y. LI
CHECKED BY J. TSCHIDA
COMM. NO. XXXXXXXX



MINNESOTA DEPARTMENT OF TRANSPORTATION

INTERSECTION AND ADA PLANS
SP 4204-40 (TH 19)

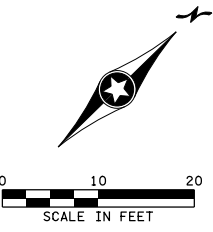
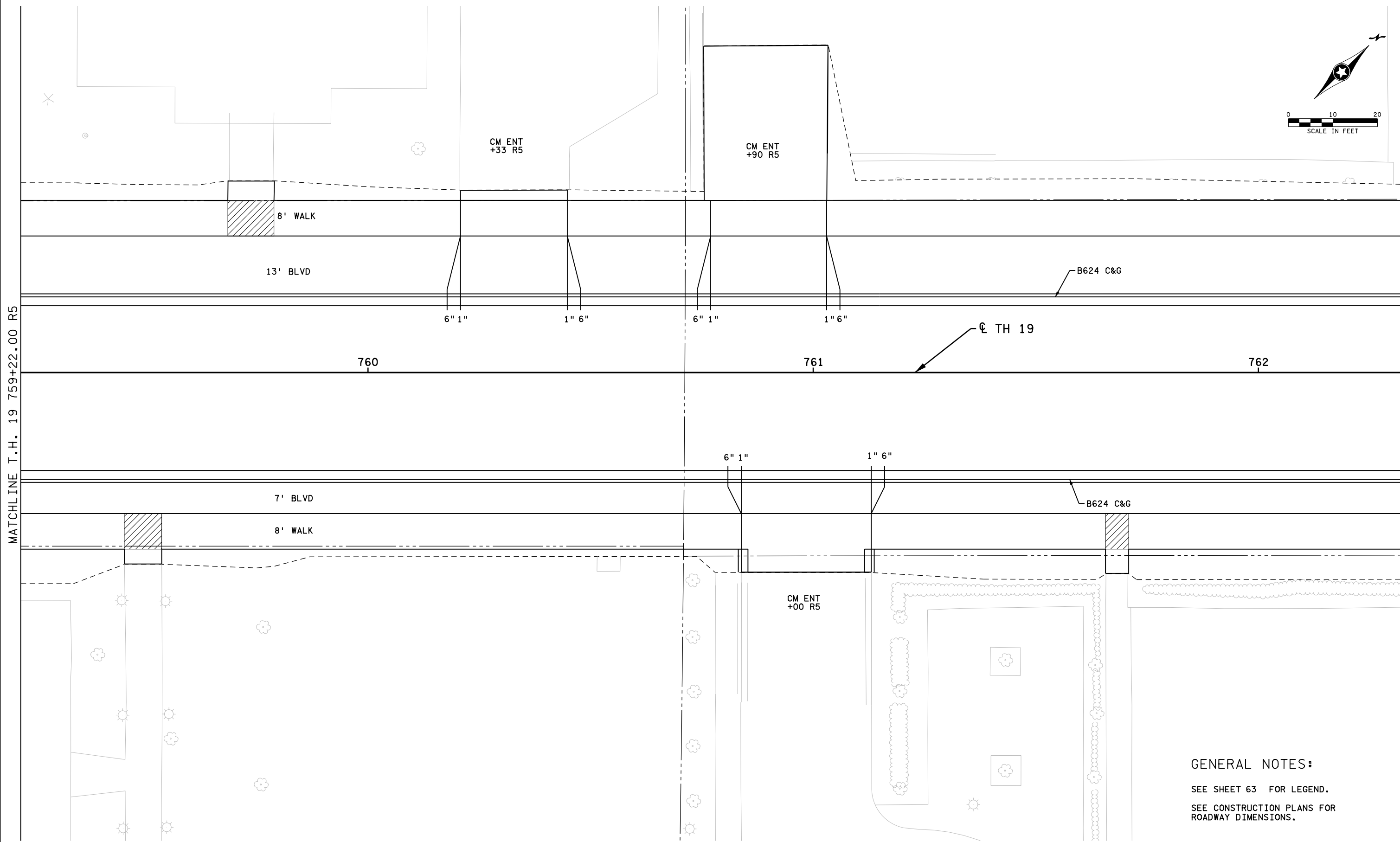
SHEET 75 OF 122

GENERAL NOTES:

SEE SHEET 63 FOR LEGEND.

SEE CONSTRUCTION PLANS FOR ROADWAY DIMENSIONS.

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GENERAL NOTES:

SEE SHEET 63 FOR LEGEND.

SEE CONSTRUCTION PLANS FOR ROADWAY DIMENSIONS.

NO	DATE	BY	CKD	APPR	REVISION
od420440_in14.dgn					

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: JASON T. TSCHIDA

Date 11/17/2022 License # 58720

STATE AID PROJECT NO. X
STATE PROJECT NO. X
COUNTY PROJECT NO. X
CITY PROJECT NO. X

DRAWN BY Y. LI
DESIGNED BY Y. LI
CHECKED BY J. TSCHIDA
COMM. NO. XXXXXXXX

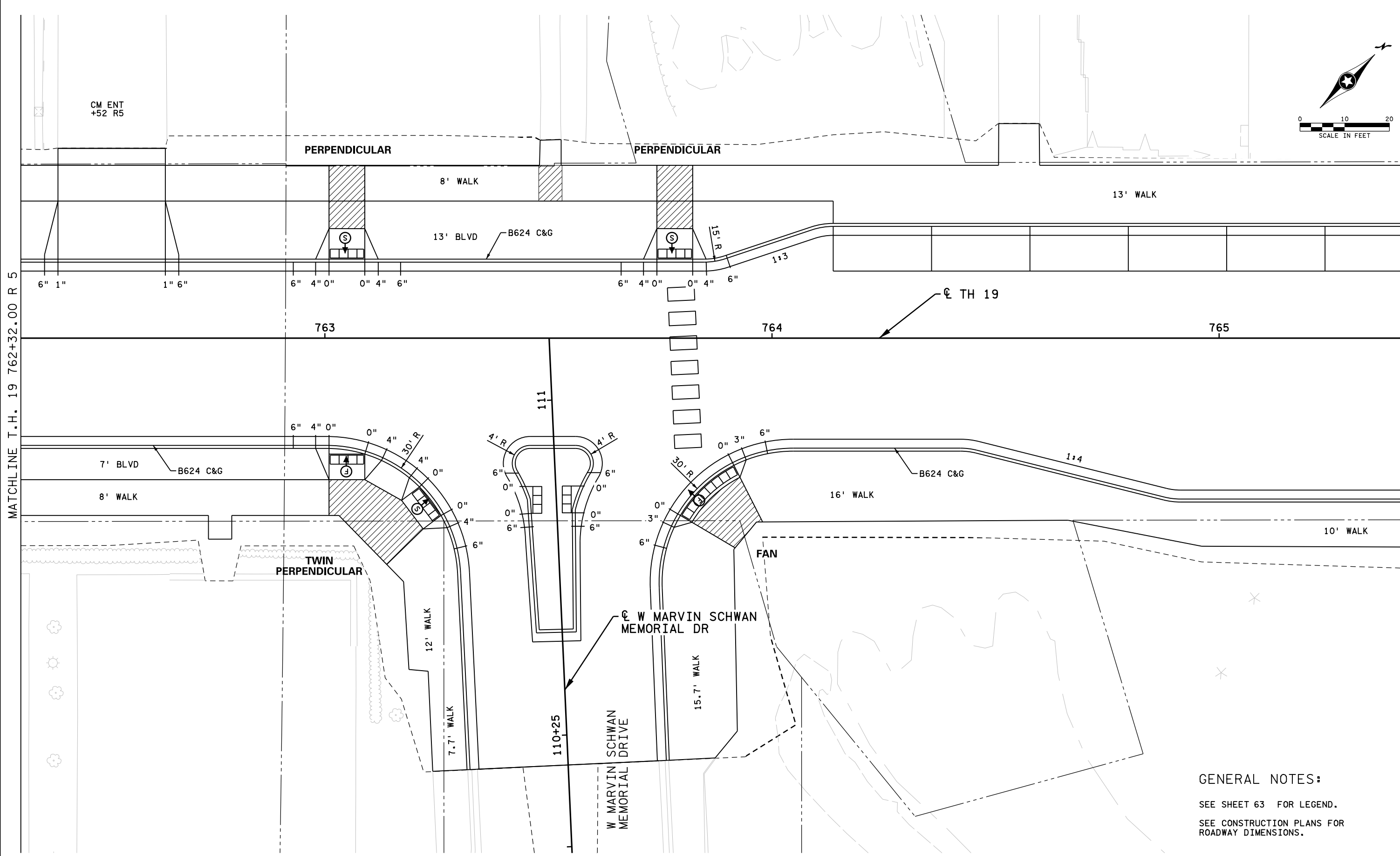
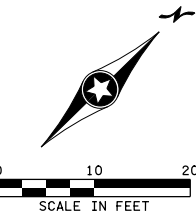


MINNESOTA DEPARTMENT OF TRANSPORTATION

INTERSECTION AND ADA PLANS
SP 4204-40 (TH 19)

SHEET
76
OF
122

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GENERAL NOTES:
SEE SHEET 63 FOR LEGEND.
SEE CONSTRUCTION PLANS FOR
ROADWAY DIMENSIONS.

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Print Name: JASON T. TSCHIDA
Date 11/17/2022 License # 58720

STATE AID PROJECT NO. X
STATE PROJECT NO. X
COUNTY PROJECT NO. X
CITY PROJECT NO. X
DRAWN BY Y. LI
DESIGNED BY Y. LI
CHECKED BY J. TSCHIDA
COMM. NO. XXXXXXXX



MINNESOTA DEPARTMENT OF TRANSPORTATION
INTERSECTION AND ADA PLANS
SP 4204-40 (TH 19)

SHEET
77
OF
122

NO	DATE	BY	CKD	APPR	REVISION

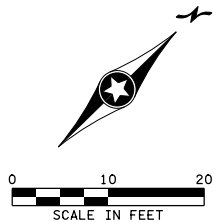
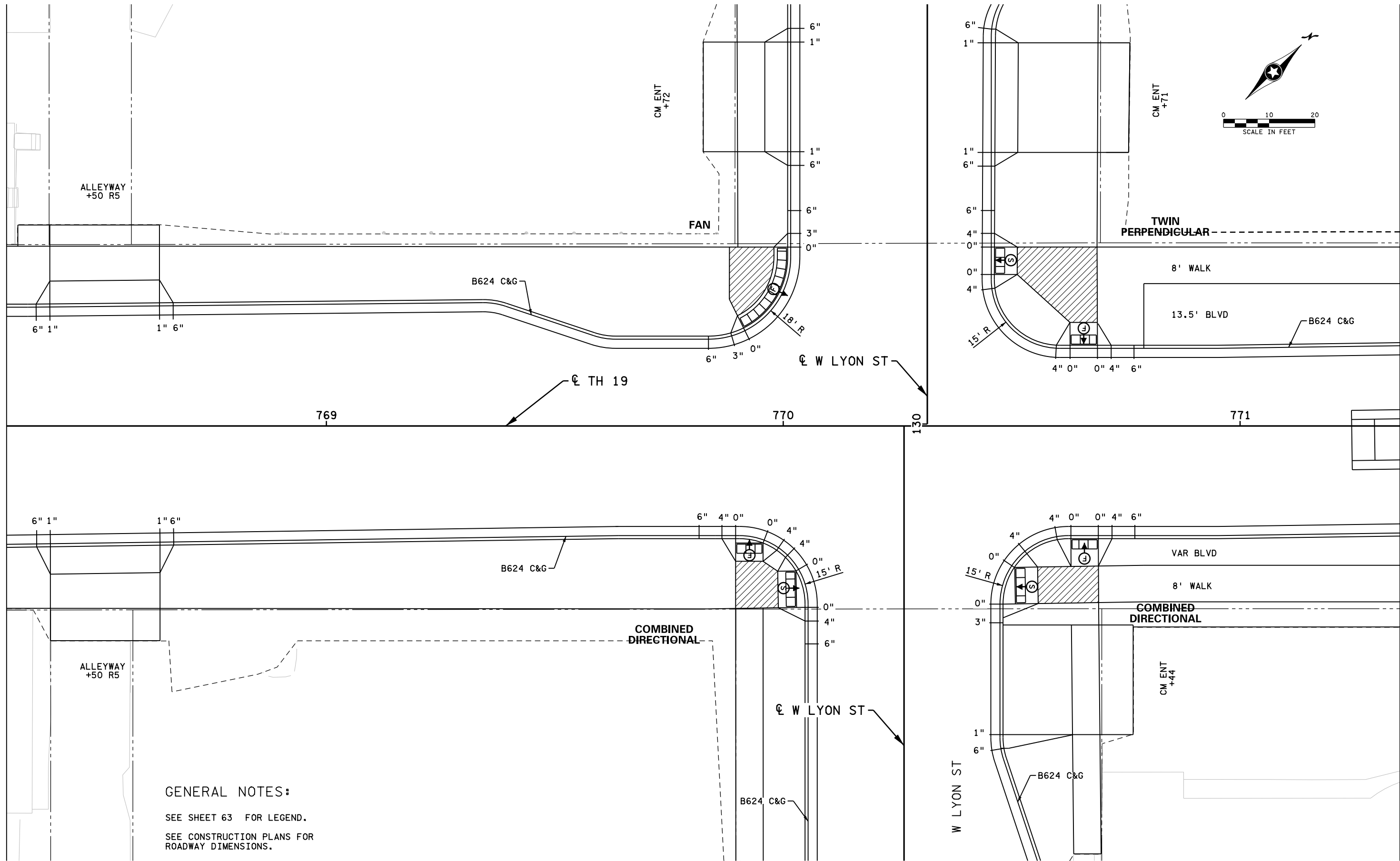
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MATCHLINE T.H. 19 STA 768+30.00 R 5

MATCHLINE T.H. 19 STA 771+35.00 R 5



GENERAL NOTES:

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STATE AID PROJECT NO.

X

STATE PROJECT NO.

X

COUNTY PROJECT NO.

X

CITY PROJECT NO. X

DRAWN BY

Y. LI

DESIGNED BY

Y. LI

CHECKED BY

J. TSCHIDA

COMM. NO. XXXXXXX



MINNESOTA DEPARTMENT OF TRANSPORTATION

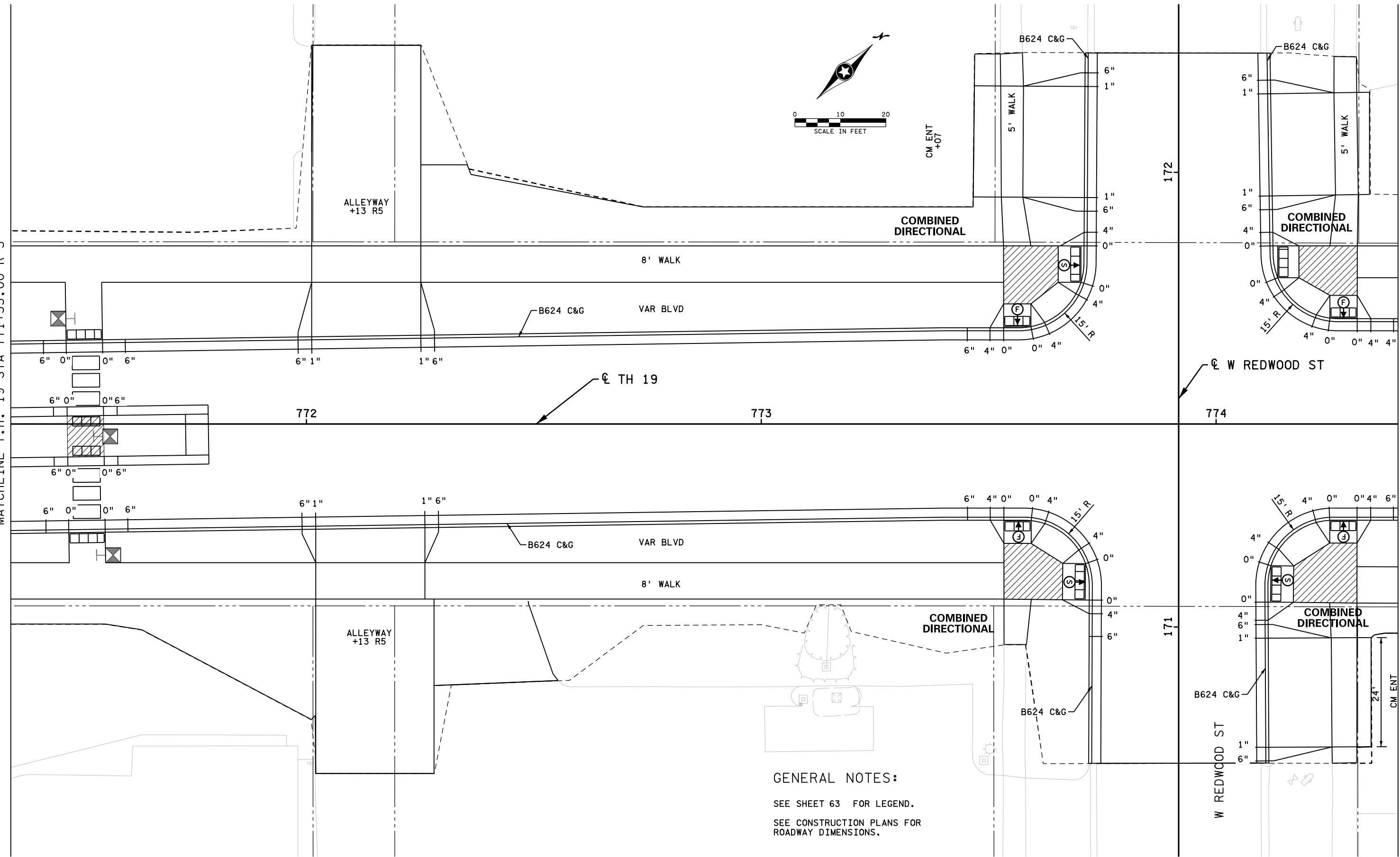
INTERSECTION AND ADA PLANS
SP 4204-40 (TH 19)

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MATCHLINE T.H. 19 STA 771+35.00 R 5

MATCHLINE T.H. 19 STA 774+40.00 R 5



GENERAL NOTES:

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ROADWAY DIMENSIONS.

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STATE AID PROJECT NO.
X
STATE PROJECT NO.
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COUNTY PROJECT NO.
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CITY PROJECT NO. X

DRAWN BY
Y. LI
DESIGNED BY
Y. LI
CHECKED BY
J. TSCHIDA
COMM. NO. XXXXXXXX



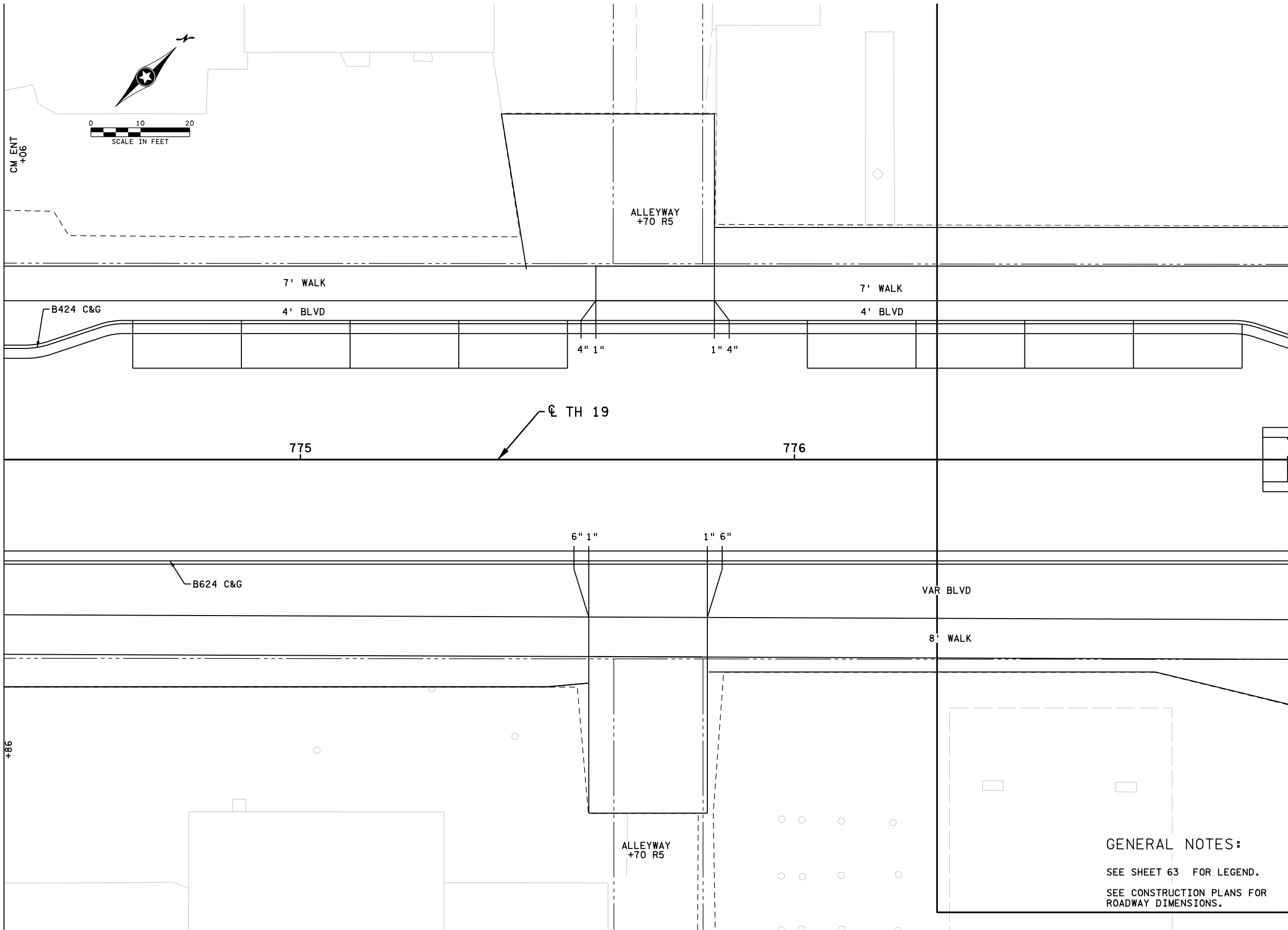
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INTERSECTION AND ADA PLANS
SP 4204-40 (TH 19)

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OF
122

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MATCHLINE T.H. 19 STA 774+40.00 R 5



MATCHLINE T.H. 19 STA 777+00.00 R 5

GENERAL NOTES:

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ROADWAY DIMENSIONS.

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STATE AID PROJECT NO.
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COUNTY PROJECT NO.
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CITY PROJECT NO. X

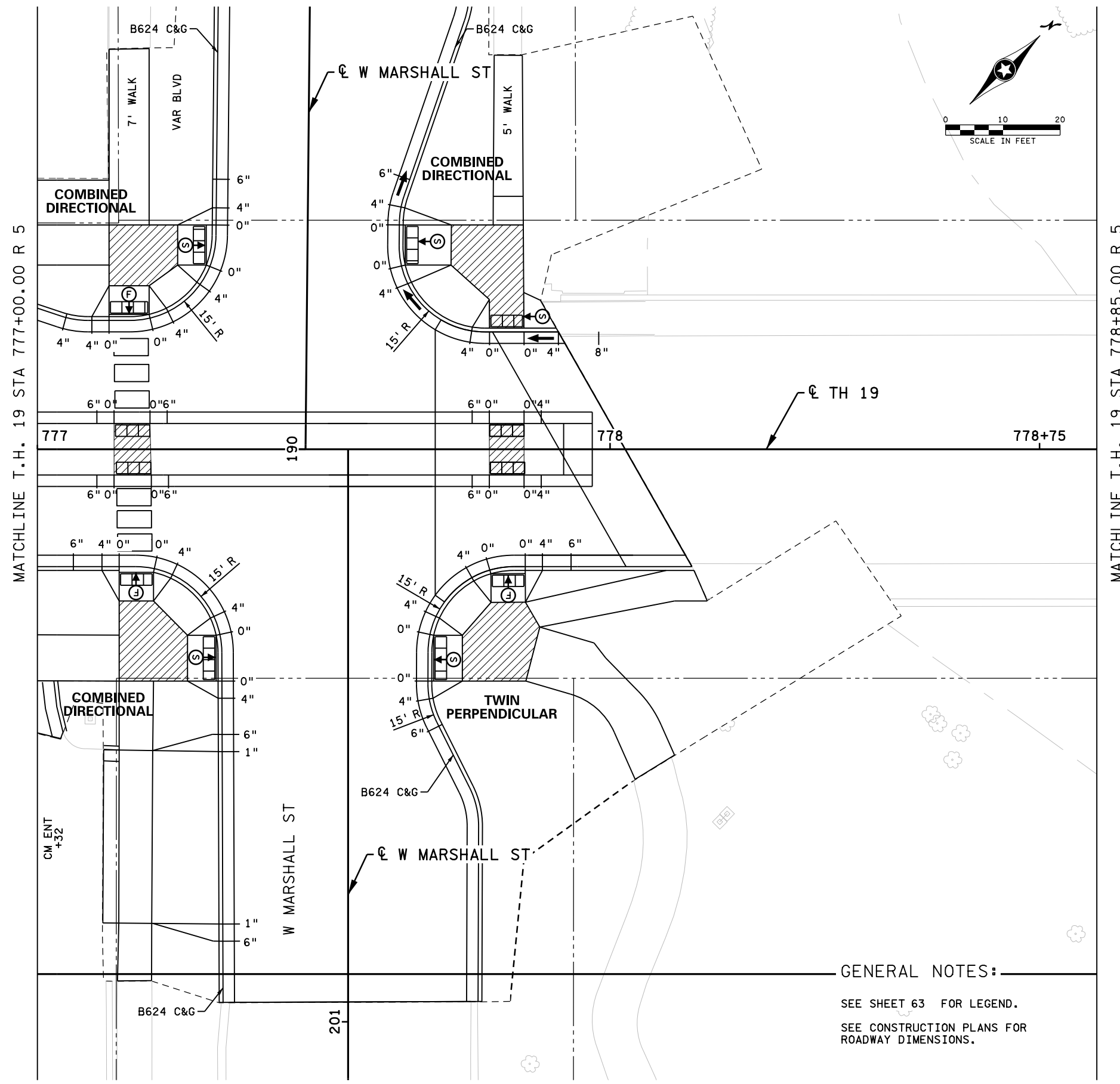
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Y. LI
DESIGNED BY
Y. LI
CHECKED BY
J. TSCHIDA
COMM. NO. XXXXXXX



MINNESOTA DEPARTMENT OF TRANSPORTATION

INTERSECTION AND ADA PLANS
SP 4204-40 (TH 19)

SHEET
81
OF
122



GENERAL NOTES:

- SEE SHEET 63 FOR LEGEND.
- SEE CONSTRUCTION PLANS FOR ROADWAY DIMENSIONS.

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Print Name: JASON T. TSCHIDA

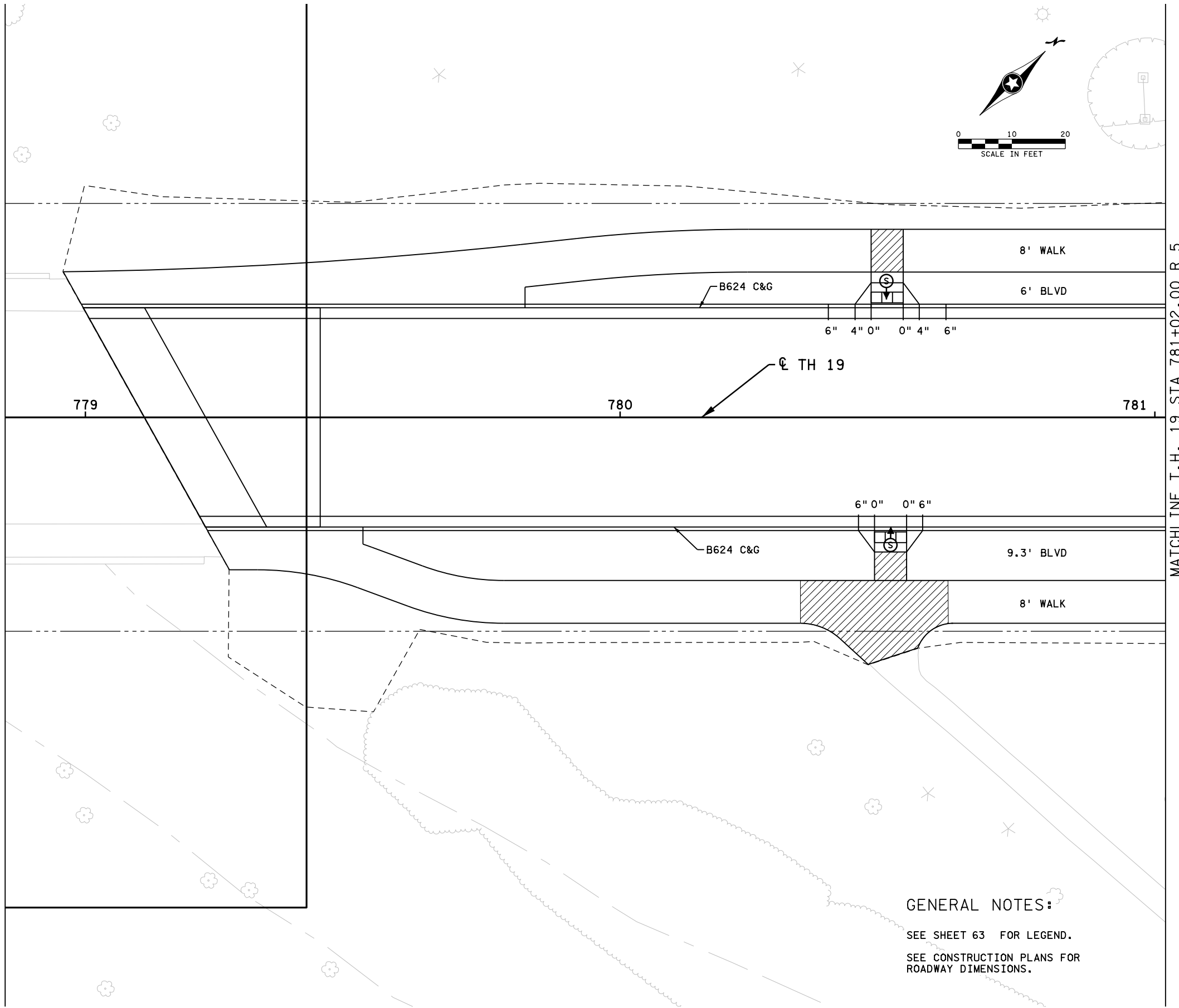
Date 11/17/2022 License # 58720

STATE AID PROJECT NO. X	DRAWN BY Y. LI
STATE PROJECT NO. X	DESIGNED BY Y. LI
COUNTY PROJECT NO. X	CHECKED BY J. TSCHIDA
CITY PROJECT NO. X	COMM. NO. XXXXXXX

	MINNESOTA DEPARTMENT OF TRANSPORTATION	SHEET 82 OF 122
	INTERSECTION AND ADA PLANS	
	SP 4204-40 (TH 19)	

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MATCHLINE T.H. 19 STA 778+85.00 R 5



GENERAL NOTES:

SEE SHEET 63 FOR LEGEND.

SEE CONSTRUCTION PLANS FOR
ROADWAY DIMENSIONS.

NO	DATE	BY	CKD	APPR	REVISION
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Date 11/17/2022 License # 58720

STATE AID PROJECT NO.
X
STATE PROJECT NO.
X
COUNTY PROJECT NO.
X
CITY PROJECT NO. X

DRAWN BY
Y. LI
DESIGNED BY
Y. LI
CHECKED BY
J. TSCHIDA
COMM. NO. XXXXXXX

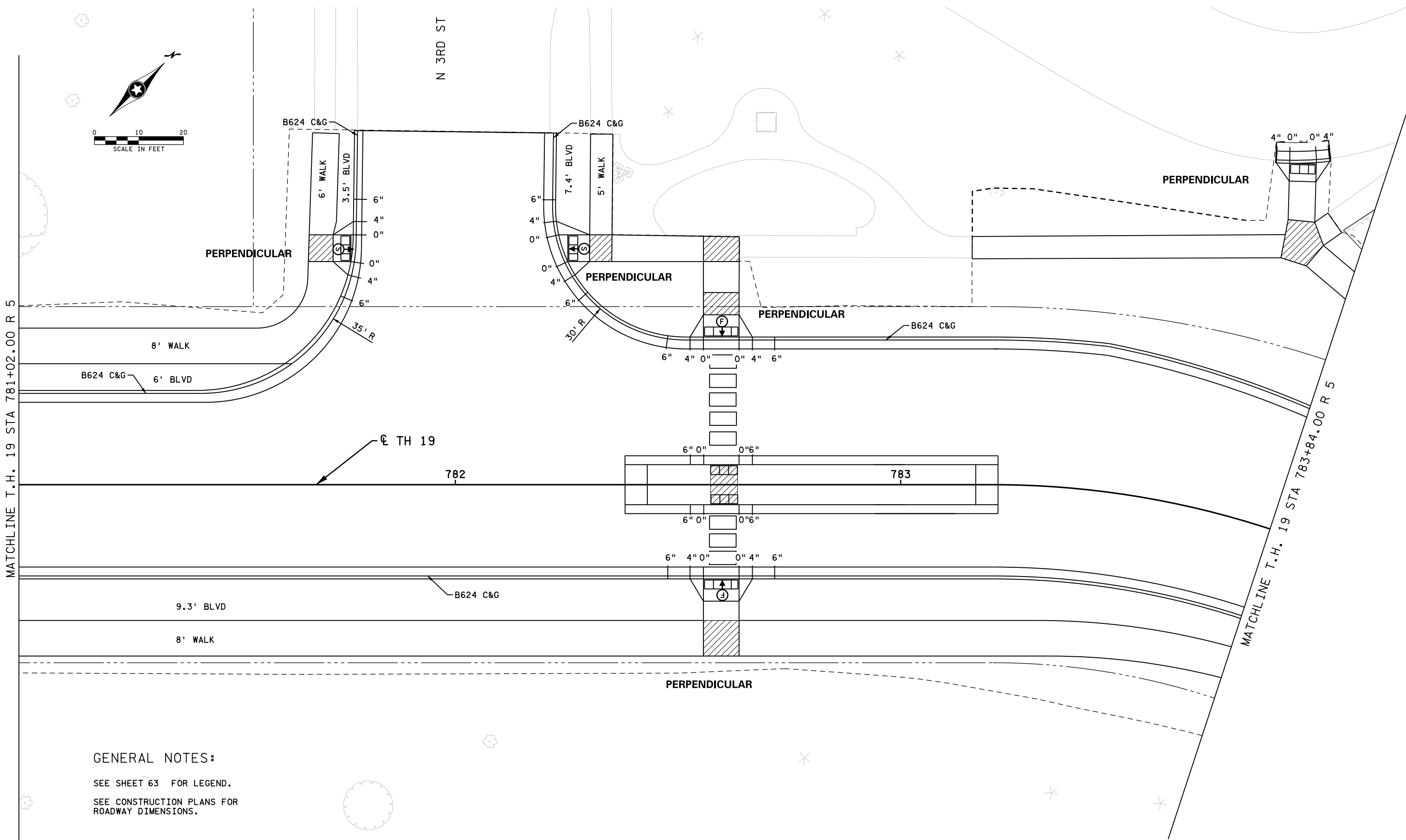
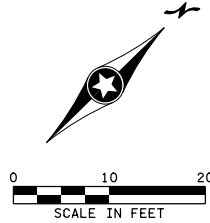


MINNESOTA DEPARTMENT OF TRANSPORTATION

INTERSECTION AND ADA PLANS
SP 4204-40 (TH 19)

MATCHLINE T.H. 19 STA 781+02.00 R 5

SHEET
83
OF
122



GENERAL NOTES:
SEE SHEET 63 FOR LEGEND.
SEE CONSTRUCTION PLANS FOR
ROADWAY DIMENSIONS.

NO	DATE	BY	CKD	APPR	REVISION

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Date 11/17/2022 License # 58720

STATE AID PROJECT NO. X	DRAWN BY Y. LI
STATE PROJECT NO. X	DESIGNED BY Y. LI
COUNTY PROJECT NO. X	CHECKED BY J. TSCHIDA
CITY PROJECT NO. X	COMM. NO. XXXXXXX



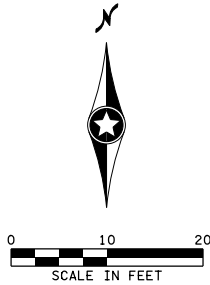
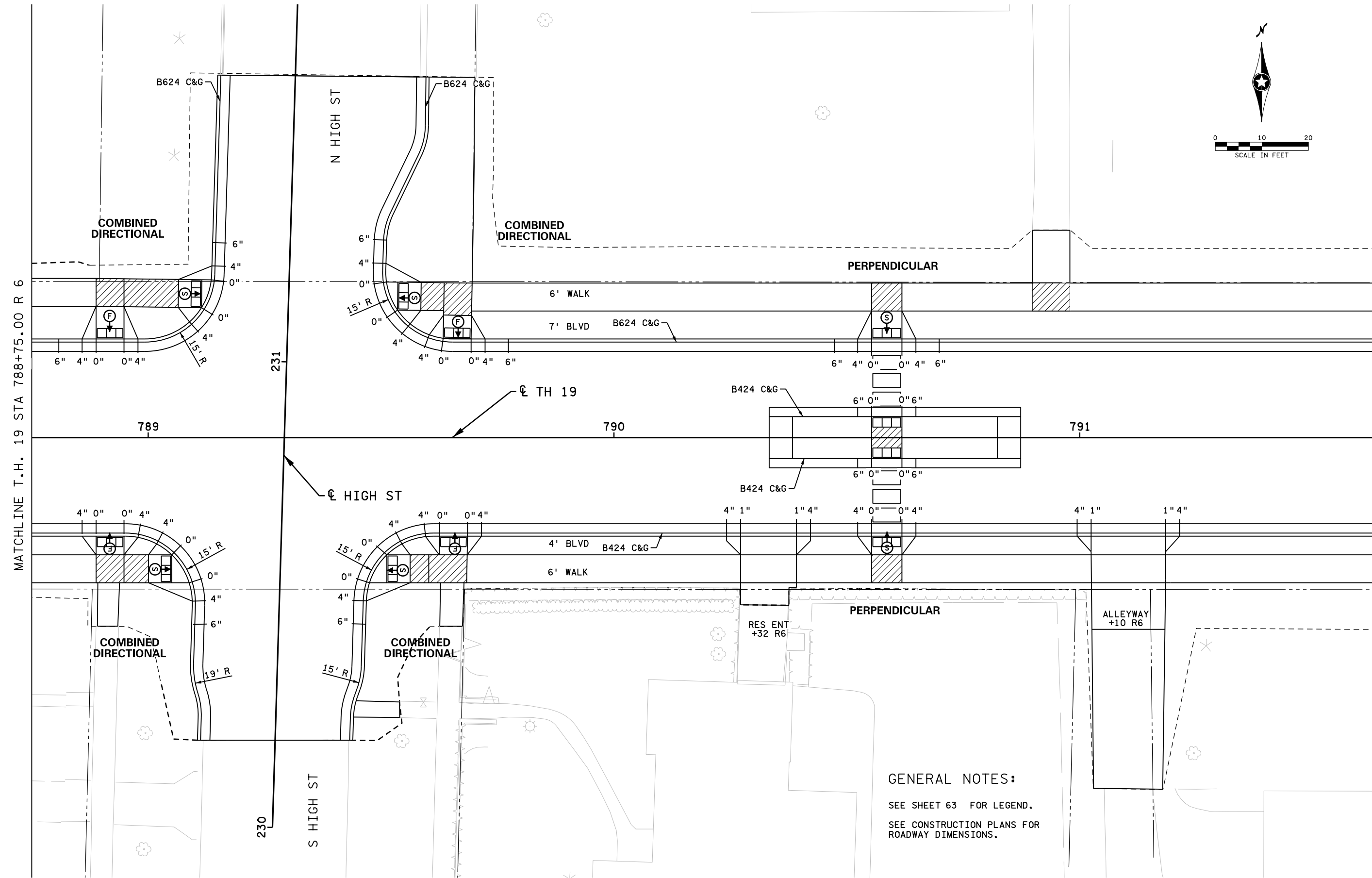
MINNESOTA DEPARTMENT OF TRANSPORTATION
INTERSECTION AND ADA PLANS
SP 4204-40 (TH 19)

SHEET
84
OF
122

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MATCHLINE T.H. 19 STA 788+75.00 R 6

MATCHLINE T.H. 19 STA 791+64.00 R 6



GENERAL NOTES:

SEE SHEET 63 FOR LEGEND.

SEE CONSTRUCTION PLANS FOR ROADWAY DIMENSIONS.

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NO	DATE	BY	CKD	APPR	REVISION

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Print Name: JASON T. TSCHIDA

Date 11/17/2022 License # 58720

STATE AID PROJECT NO. X	DRAWN BY Y. LI
STATE PROJECT NO. X	DESIGNED BY Y. LI
COUNTY PROJECT NO. X	CHECKED BY J. TSCHIDA
CITY PROJECT NO. X	COMM. NO. XXXXXXX



MINNESOTA DEPARTMENT OF TRANSPORTATION

INTERSECTION AND ADA PLANS

SP 4204-40 (TH 19)

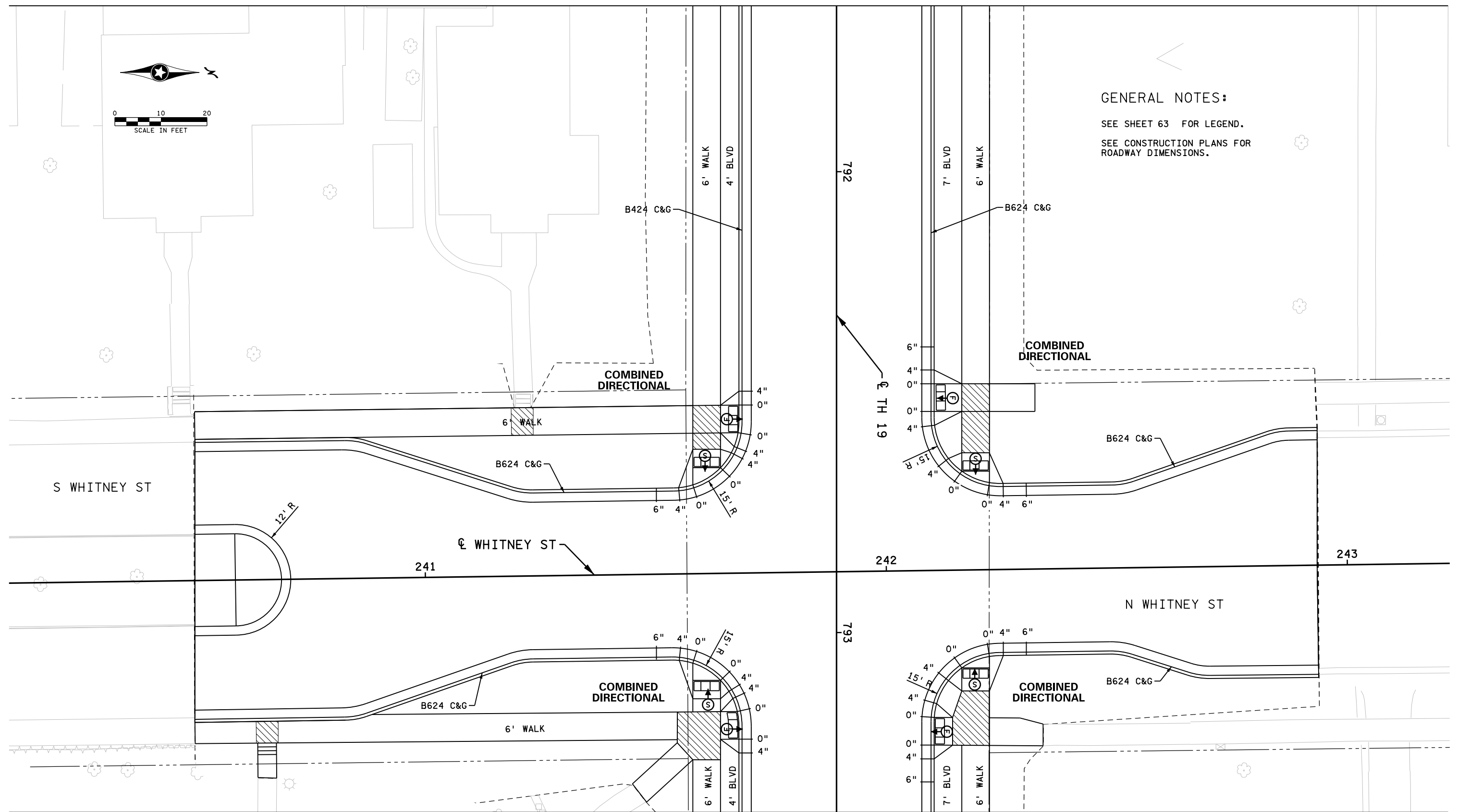
SHEET

87

OF

122

SEE CONSTRUCTION PLANS FOR
ROADWAY DIMENSIONS.



MATCHLINE T.H. 19 STA 793+39.00 R6

NO	DATE	BY	CKD	APPR	REVISION
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Print Name: JASON T. TSCHIDA

Date 11/17/2022 License # 58720

STATE AID PROJECT NO.

X	Y
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STATE PROJECT NO.

X
COUNTY PROJECT NO.

COUNTY PROJECT NO.
X

DRAWN BY

Y. LI

DESIGNED BY
Y. I.

CHECKED BY _____

J. TSCHIDA



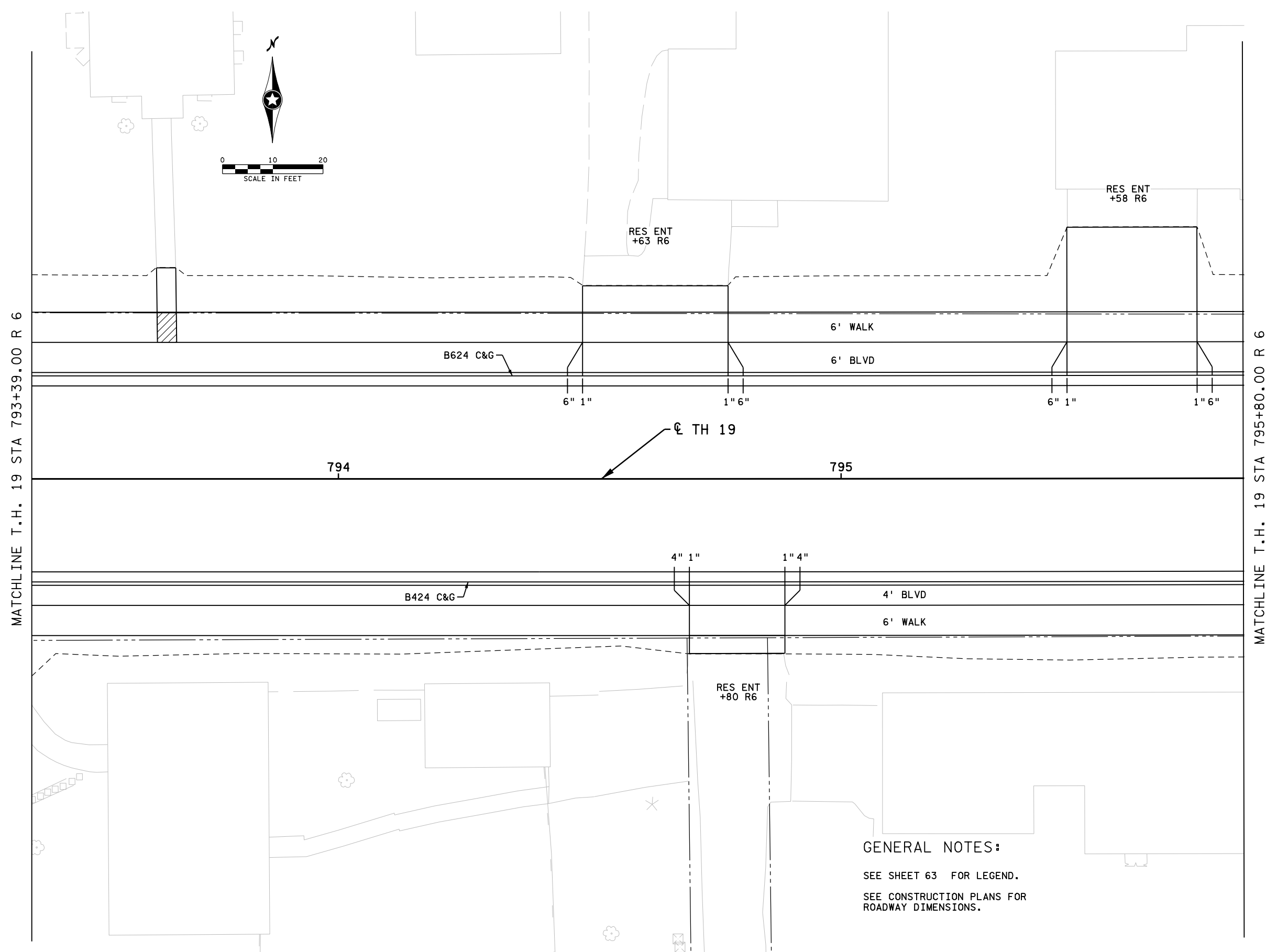
MINNESOTA DEPARTMENT OF TRANSPORTATION

INTERSECTION AND ADA PLANS
SP 4204-40 (TH 19)

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122

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GENERAL NOTES:

SEE SHEET 63 FOR LEGEND.

SEE CONSTRUCTION PLANS FOR ROADWAY DIMENSIONS.

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NO	DATE	BY	CKD	APPR	REVISION

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Print Name: JASON T. TSCHIDA

Date 11/17/2022 License # 58720

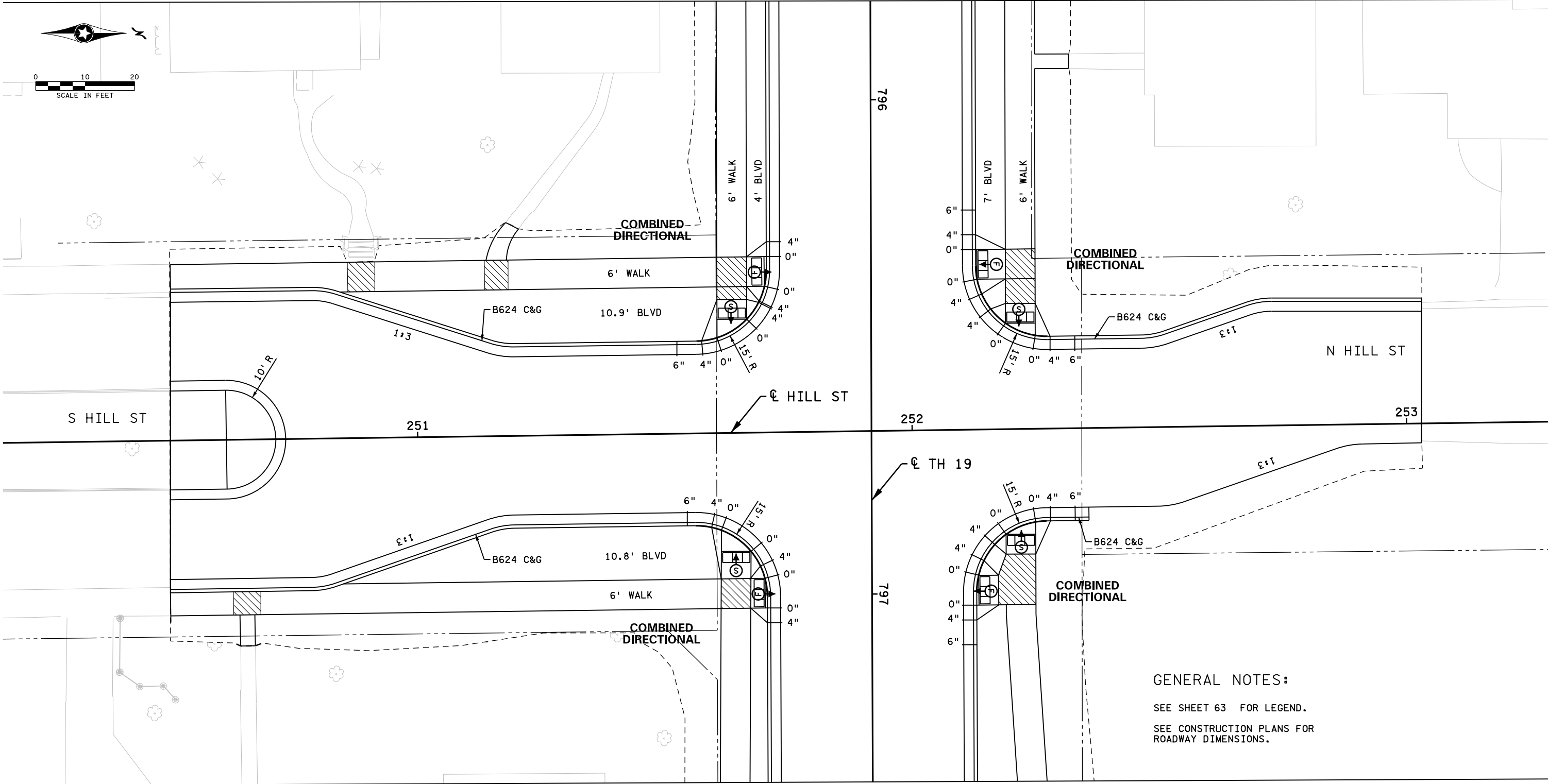
STATE AID PROJECT NO. X	DRAWN BY Y. LI
STATE PROJECT NO. X	DESIGNED BY Y. LI
COUNTY PROJECT NO. X	CHECKED BY J. TSCHIDA
CITY PROJECT NO. X	COMM. NO. XXXXXXXX



MINNESOTA DEPARTMENT OF TRANSPORTATION
INTERSECTION AND ADA PLANS SP 4204-40 (TH 19)

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OF
122

MATCHLINE T.H. 19 STA 795+80.00 R 6



MATCHLINE T.H. 19 STA 797+38.00 R 6

GENERAL NOTES:

SEE SHEET 63 FOR LEGEND.
SEE CONSTRUCTION PLANS FOR
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Print Name: JASON T. TSCHIDA
Date 11/17/2022 License # 58720

STATE AID PROJECT NO. X
STATE PROJECT NO. X
COUNTY PROJECT NO. X
CITY PROJECT NO. X

DRAWN BY Y. LI
DESIGNED BY Y. LI
CHECKED BY J. TSCHIDA
COMM. NO. XXXXXXX



MINNESOTA DEPARTMENT OF TRANSPORTATION

INTERSECTION AND ADA PLANS
SP 4204-40 (TH 19)

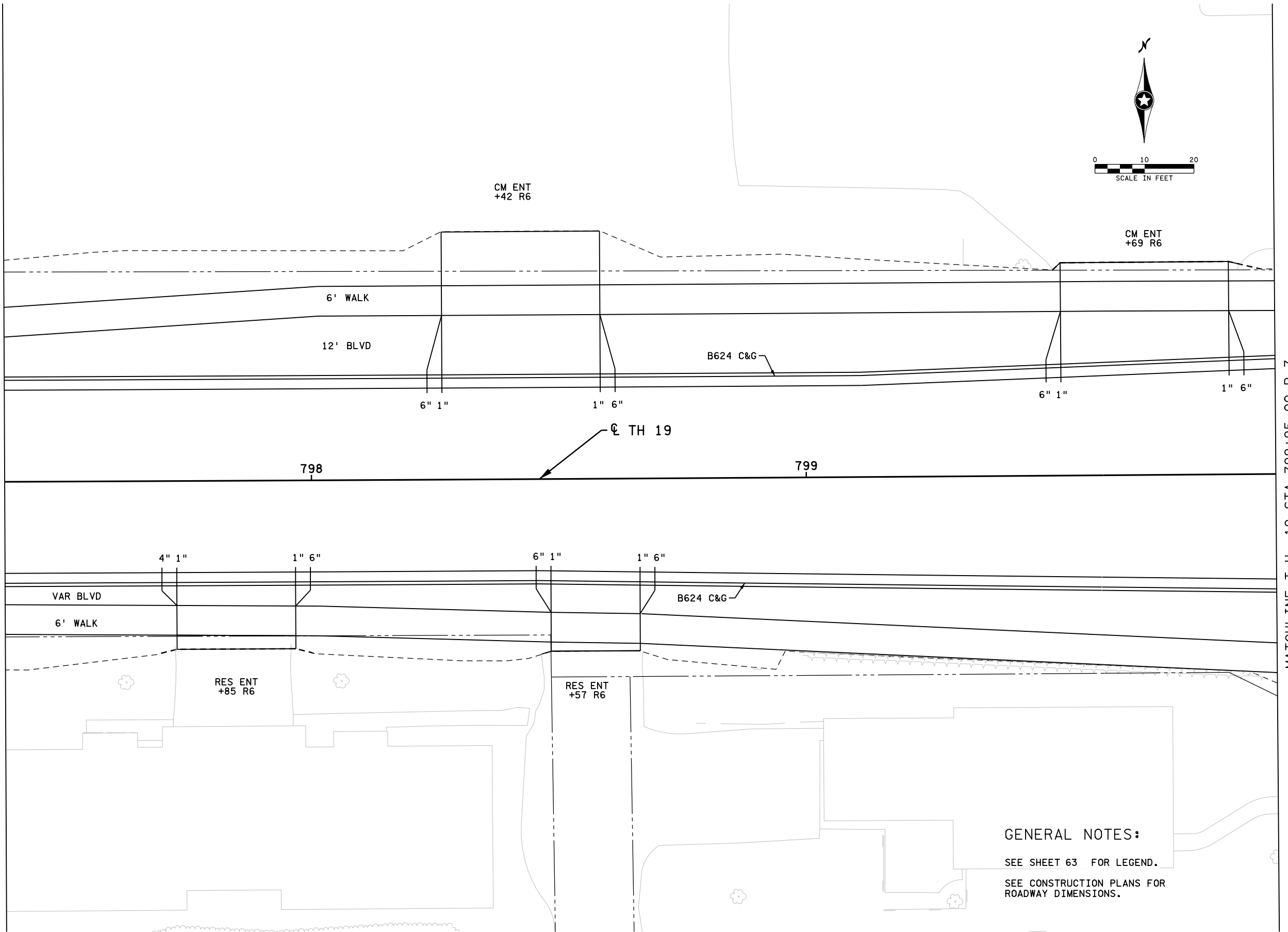
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NO	DATE	BY	CKD	APPR	REVISION

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MATCHLINE T.H. 19 STA 797+38.00 R 6



GENERAL NOTES:

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ROADWAY DIMENSIONS.

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COUNTY PROJECT NO. X
CITY PROJECT NO. X

DRAWN BY Y. LI
DESIGNED BY Y. LI
CHECKED BY J. TSCHIDA
COMM. NO. XXXXXXXX



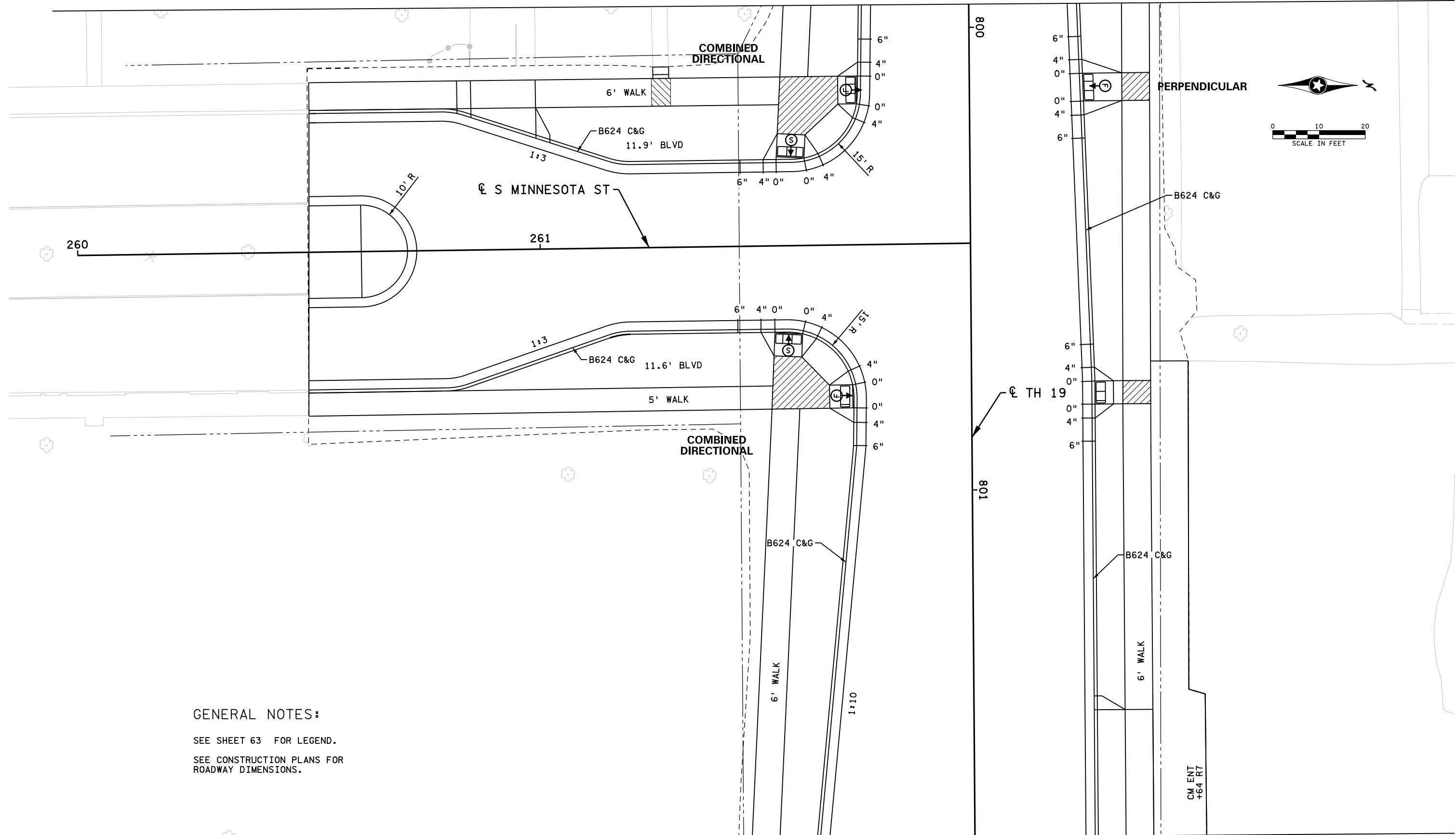
MINNESOTA DEPARTMENT OF TRANSPORTATION

INTERSECTION AND ADA PLANS
SP 4204-40 (TH 19)

MATCHLINE T.H. 19 STA 799+95.00 R 7

SHEET
91
OF
122

MATCHLINE T.H. 19 STA 799+95.00 R 7



GENERAL NOTES:

SEE SHEET 63 FOR LEGEND.

SEE CONSTRUCTION PLANS FOR
ROADWAY DIMENSIONS.

MATCHLINE T.H. 19 STA 801+75.00 R 7

NO	DATE	BY	CKD	APPR	REVISION
od420440 - In29.dgn					

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STATE AID PROJECT NO. X	DRAWN BY Y. LI
STATE PROJECT NO. X	DESIGNED BY Y. LI
COUNTY PROJECT NO. X	CHECKED BY J. TSCHIDA
CITY PROJECT NO. X	COMM. NO. XXXXXXXX



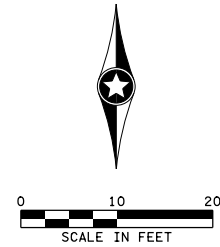
MINNESOTA DEPARTMENT OF TRANSPORTATION
INTERSECTION AND ADA PLANS SP 4204-40 (TH 19)

SHEET
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OF
122

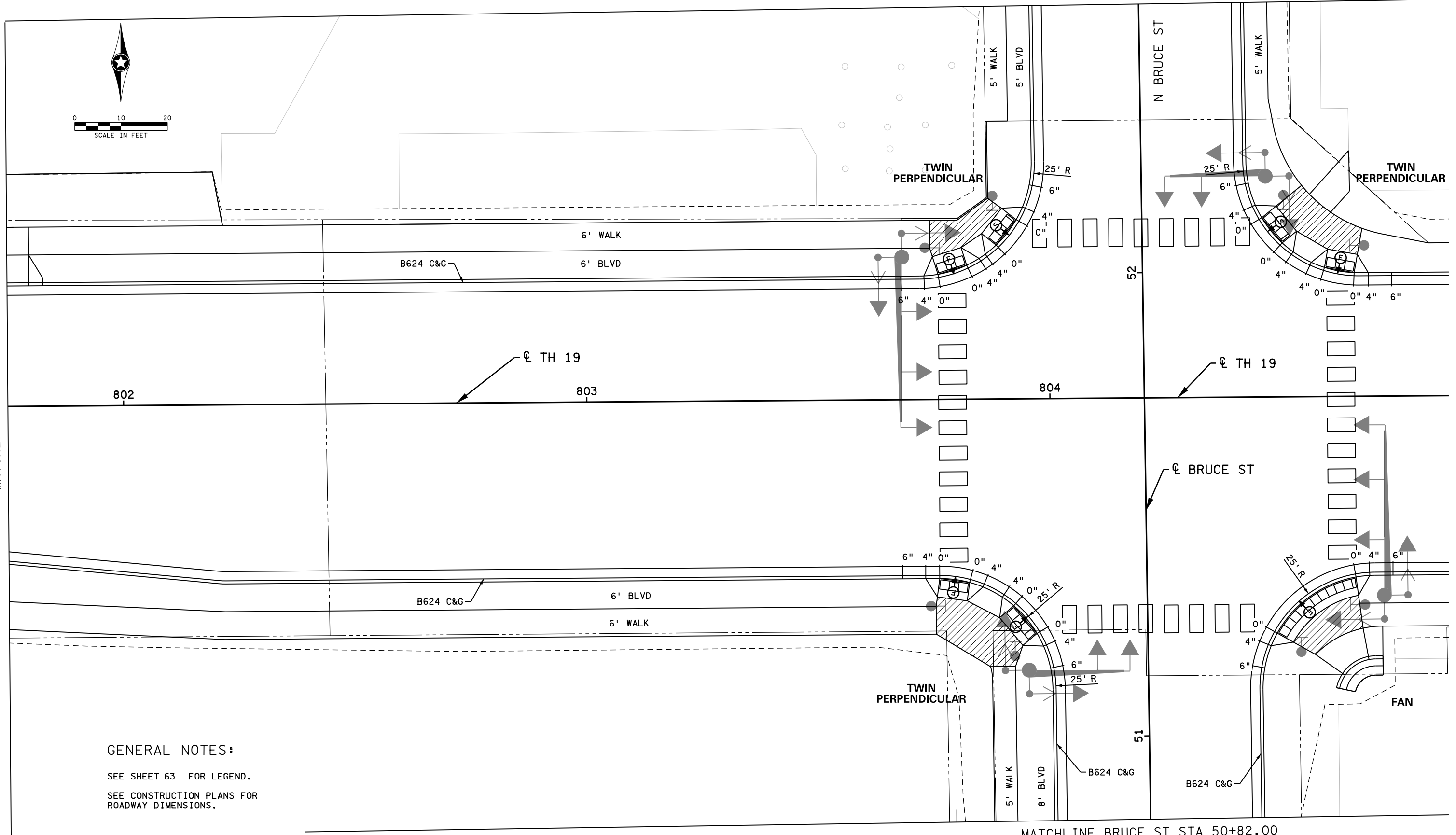
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MATCHLINE T.H. 19 STA 801+75.00 R 7



MATCHLINE BRUCE ST STA 52+58.00



GENERAL NOTES:

SEE SHEET 63 FOR LEGEND.

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MATCHLINE BRUCE ST STA 50+82.00

NO	DATE	BY	CKD	APPR	REVISION

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Date 11/17/2022 License # 58720

STATE AID PROJECT NO.
X
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CITY PROJECT NO. X

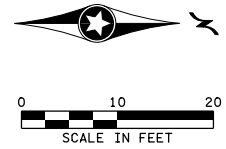
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Y. LI
DESIGNED BY
Y. LI
CHECKED BY
J. TSCHIDA
COMM. NO. XXXXXXX



MINNESOTA DEPARTMENT OF TRANSPORTATION

INTERSECTION AND ADA PLANS
SP 4204-40 (TH 19)

SHEET
93
OF
122



MATCHLINE BRUCE ST STA 52+58.00

20' R

20' R

B624 C&G

B624 C&G

1:30

CL BRUCE ST

53

54

55

5' WALK

B624 C&G

5' R

12' R

5' WALK

CM ENT
+15

CM ENT
+43

GENERAL NOTES:

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COUNTY PROJECT NO.

X

CITY PROJECT NO. X

DRAWN BY

Y. LI

DESIGNED BY

Y. LI

CHECKED BY

J. TSCHIDA

COMM. NO. XXXXXXX



MINNESOTA DEPARTMENT OF TRANSPORTATION

INTERSECTION AND ADA PLANS
SP 4204-40 (TH 19)

SHEET

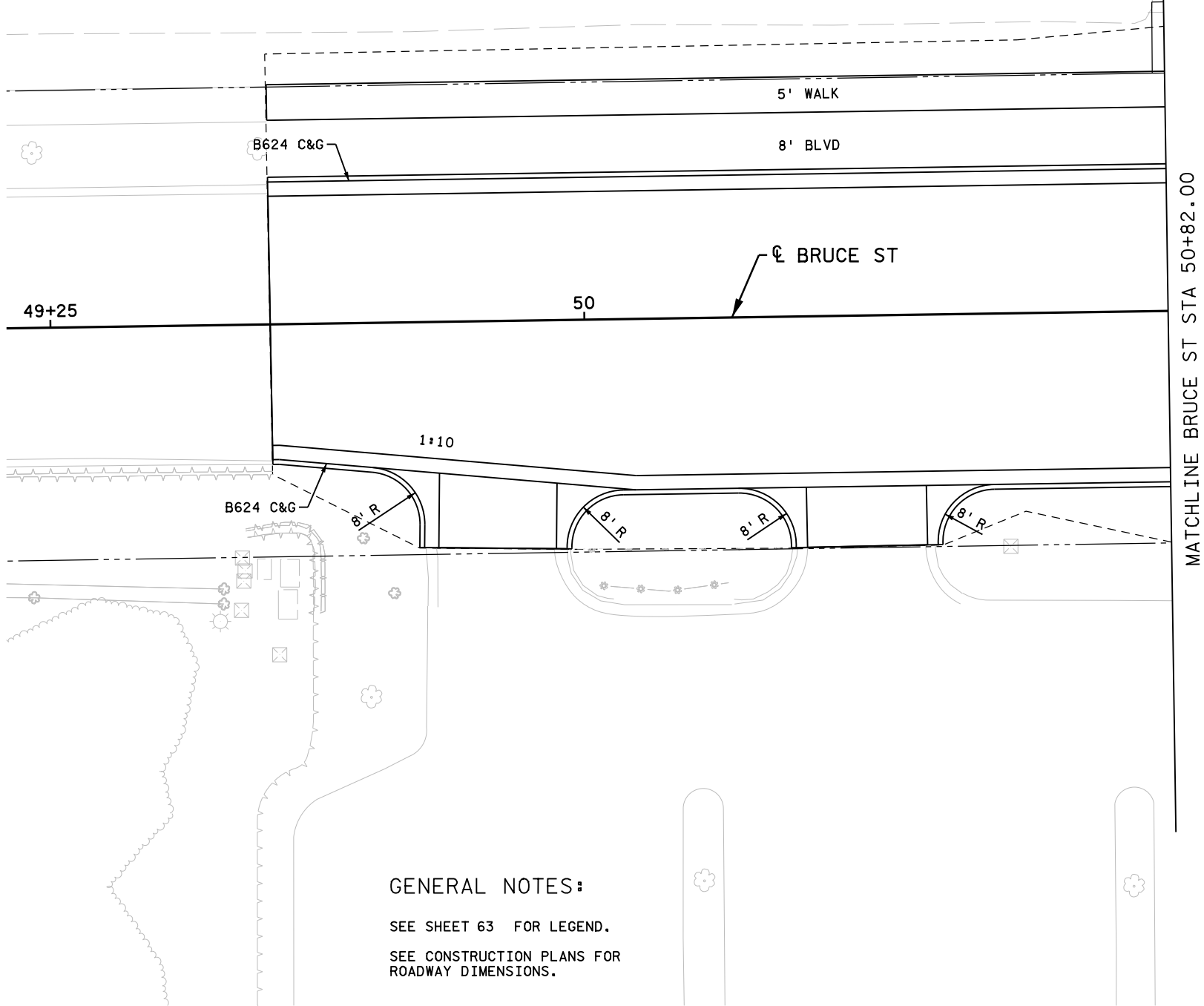
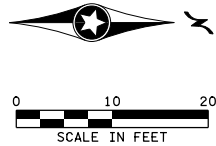
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NO	DATE	BY	CKD	APPR	REVISION
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GENERAL NOTES:
SEE SHEET 63 FOR LEGEND.
SEE CONSTRUCTION PLANS FOR
ROADWAY DIMENSIONS.

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NO	DATE	BY	CKD	APPR	REVISION

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CITY PROJECT NO. X	COMM. NO. XXXXXXX



MINNESOTA DEPARTMENT OF TRANSPORTATION	SHEET
INTERSECTION AND ADA PLANS SP 4204-40 (TH 19)	95 OF 122

DRIVEWAY TABLE

ALIGNMENT	STATION	SIDE	DRIVEWAY TYPE	CURB TYPE	E1	E2	L1	S1	E3	L2	S2	E4	L3	S3	EXISTING	E5	COMMENTS
							FT	%		FT	%		FT	%	%		
TH 19	742+03 R4	LT			1163.08	1163.16	5.0	8.0%	1163.56	6.0	1.5%	1163.65	6.2	6.3%	4.2%	1164.04	
TH 19	742+24 R4	LT			1162.93	1163.01	5.0	8.0%	1163.41	6.0	1.5%	1163.50	5.9	5.4%	2.0%	1163.82	
TH 19	743+00 R4	LT			1162.54	1162.62	5.0	8.0%	1163.02	6.0	1.5%	1163.11	4.1	2.6%	5.2%	1163.22	
TH 19	744+25 R4	LT			1161.90	1161.99	5.0	8.0%	1162.39	6.0	1.5%	1162.48	5.8	5.7%	3.2%	1162.81	
TH 19	744+93 R4	LT			1161.91	1161.99	5.0	8.0%	1162.39	6.0	1.5%	1162.48	13.2	0.3%	0.6%	1162.52	
TH 19	748+06 R4	LT			1160.78	1160.86	11.8	2.0%	1161.10	6.0	1.5%	1161.19	8.8	3.6%	1.5%	1161.51	
TH 19	748+43 R5	RT			1160.81	1160.89	7.0	8.0%	1161.45	8.0	1.5%	1161.57	6.9	5.4%	-3.9%	1161.95	
TH 19	748+90 R5	LT			1161.16	1161.24	9.0	6.0%	1161.78	6.0	1.5%	1161.87	4.2	0.4%	4.2%	1161.88	
TH 19	749+25 R5	LT			1161.47	1161.55	9.0	6.6%	1162.15	6.0	1.5%	1162.24	4.3	1.4%	-0.4%	1162.30	
TH 19	749+89 R5	LT			1162.54	1162.62	9.0	8.0%	1163.34	6.0	1.5%	1163.43	5.3	5.3%	6.3%	1163.71	
TH 19	751+00 R5	RT			1165.04	1165.12	7.0	8.0%	1165.68	8.0	1.5%	1165.80	12.3	7.9%	-1.3%	1166.78	
TH 19	751+18 R5	LT			1165.56	1165.65	9.0	1.0%	1165.74	6.0	1.5%	1165.83	1.7	4.2%	3.5%	1165.90	
TH 19	753+61 R5	LT			1165.70	1165.78	5.0	7.0%	1166.13	10.0	1.5%	1166.28	4.0	1.4%	1.2%	1166.34	
TH 19	754+39 R5	LT			1164.99	1165.07	5.0	8.0%	1165.47	10.0	1.5%	1165.62	11.2	2.0%	3.3%	1165.84	
TH 19	755+56 R5	LT			1163.99	1164.08	5.0	8.0%	1164.48	10.0	1.5%	1164.63	6.3	3.9%	-0.3%	1164.88	
TH 19	756+14 R5	RT			1163.57	1163.66	5.3	8.0%	1164.08	8.0	1.5%	1164.20	16.0	7.2%	-0.3%	1165.35	
TH 19	757+36 R5	LT			1163.06	1163.14	5.0	6.0%	1163.44	10.0	1.5%	1163.59	1.7	4.5%	1.2%	1163.67	
TH 19	760+33 R5	LT			1161.70	1161.78	13.0	3.0%	1162.17	8.0	1.5%	1162.29	2.2	3.1%	0.0%	1162.36	
TH 19	760+90 R5	LT			1162.00	1162.08	13.0	1.5%	1162.27	8.0	1.5%	1162.39	34.6	-0.8%	0.4%	1162.12	
TH 19	760+98 R5	RT			1161.93	1162.02	7.0	4.6%	1162.34	8.0	1.5%	1162.46	5.2	1.9%	0.3%	1162.56	
TH 19	762+52 R5	LT			1165.22	1165.31	13.0	2.0%	1165.57	8.0	1.5%	1165.69	3.8	2.0%	-0.1%	1165.76	
TH 19	768+51 R5	LT			1160.88	1160.96	4.0	8.0%	1161.28	8.5	1.5%	1161.41	4.6	3.6%	-0.9%	1161.57	
TH 19	768+52 R5	RT			1160.84	1160.93	5.1	0.5%	1160.95	8.7	0.5%	1161.00	7.1	0.8%	-0.8%	1161.05	
TH 19	772+13 R5	LT			1156.97	1157.06	11.8	2.0%	1157.29	8.0	1.5%	1157.41	44.1	0.3%	0.6%	1157.54	
TH 19	772+14 R5	RT			1156.71	1156.80	7.6	3.0%	1157.02	8.0	0.5%	1157.06	38.4	2.1%	-2.6%	1157.85	
TH 19	775+72 R5	LT			1155.72	1155.80	4.0	8.0%	1156.12	7.0	1.5%	1156.23	30.8	1.4%	1.4%	1156.66	
TH 19	775+70 R5	RT			1155.60	1155.68	10.8	4.0%	1156.12	8.0	1.5%	1156.24	31.7	1.0%	-0.9%	1156.57	
TH 19	784+78 R6	LT			1158.56	1158.64	7.0	8.0%	1159.20	6.0	1.5%	1159.29	2.4	4.1%	6.8%	1159.39	
TH 19	786+10 R6	LT			1159.01	1159.09	7.0	10.0%	1159.79	6.0	1.5%	1159.88	3.4	8.2%	11.6%	1160.16	
TH 19	786+10 R6	LT			1159.01	1159.09	7.0	10.0%	1159.79	6.0	1.5%	1159.88	3.4	8.2%	11.6%	1160.16	
TH 19	787+24 R6	LT			1158.49	1158.57	7.0	8.0%	1159.13	6.0	1.5%	1159.22	1.5	2.9%	12.1%	1159.27	
TH 19	787+39 R6	RT			1159.17	1159.25	4.0	2.0%	1159.33	6.0	1.5%	1159.42	14.8	1.6%	-5.3%	1159.66	
TH 19	787+67 R6	LT			1158.30	1158.38	7.0	5.0%	1158.73	6.0	1.5%	1158.82	3.0	2.5%	-0.3%	1158.90	
TH 19	788+64 R6	LT			1157.88	1157.96	7.0	4.0%	1158.24	6.0	1.5%	1158.33	2.1	0.7%	-0.8%	1158.35	

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					I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota. Print Name: JASON T. TSCHIDA		STATE AID PROJECT NO. X		DRAWN BY Y. LI				MINNESOTA DEPARTMENT OF TRANSPORTATION		SHEET 96 OF 122		
					Date 11/17/2022 License # 58720		STATE PROJECT NO. X		DESIGNED BY Y. LI				INTERSECTION AND ADA PLANS				
							COUNTY PROJECT NO. X		CHECKED BY J. TSCHIDA				SP 4204-40 (TH 19)				
							CITY PROJECT NO. X		COMM. NO. XXXXXXX								
NO	DATE	BY	CKD	APPR	REVISION												

DRIVEWAY TABLE

ALIGNMENT	STATION	SIDE	DRIVEWAY TYPE	CURB TYPE	E1	E2	L1	S1	E3	L2	S2	E4	L3	S3	EXISTING	E5	COMMENTS
							FT	%		FT	%		FT	%	%		
TH 19	790+33 R6	RT			1157.09	1157.17	4.1	8.0%	1157.50	6.0	1.5%	1157.59	4.8	7.0%	-1.6%	1157.93	
TH 19	791+10 R6	RT			1156.81	1156.90	4.1	8.0%	1157.22	6.0	1.5%	1157.31	18.8	7.0%	-8.0%	1158.62	
TH 19	794+63 R6	LT			1155.43	1155.52	6.0	8.0%	1156.00	6.0	1.5%	1156.09	5.3	6.4%	8.2%	1156.42	
TH 19	794+79 R6	RT			1155.33	1155.41	4.0	8.0%	1155.73	6.0	1.5%	1155.82	3.6	6.1%	-10.4%	1156.04	
TH 19	795+58 R6	LT			1155.04	1155.12	6.0	8.0%	1155.60	6.0	1.5%	1155.69	16.8	6.3%	1.5%	1156.74	
TH 19	797+85 R6	RT			1153.14	1153.23	4.1	10.0%	1153.64	6.0	1.5%	1153.73	2.7	4.7%	-13.6%	1153.86	
TH 19	798+42 R6	LT			1152.56	1152.64	12.0	1.5%	1152.82	6.0	1.5%	1152.91	10.8	-8.2%	-8.5%	1152.02	
TH 19	798+57 R6	RT			1152.22	1152.30	5.7	8.0%	1152.76	6.0	1.5%	1152.85	1.7	3.6%	-8.9%	1152.91	
TH 19	799+69 R6	LT			1151.61	1151.70	10.1	3.0%	1152.00	6.0	1.5%	1152.09	3.9	-2.1%	-0.7%	1152.01	
TH 19	801+64 R7	LT			1150.84	1150.92	6.0	8.0%	1151.40	6.0	1.5%	1151.49	11.3	7.1%	1.1%	1152.30	
TH 19	53+15 R1	RT			1146.41	1146.50	0.0	N/A	N/A	5.0	1.5%	1146.57	4.8	5.4%	1.4%	1146.83	
TH 19	54+43 R1	RT			1144.95	1145.03	0.0	N/A	N/A	5.0	1.5%	1145.11	4.8	6.2%	5.6%	1145.41	

NO	DATE	BY	CKD	APPR	REVISION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: JASON T. TSCHIDA

Date 11/17/2022 License # 58720

STATE AID PROJECT NO.
X
STATE PROJECT NO.
X
COUNTY PROJECT NO.
X
CITY PROJECT NO. X

DRAWN BY
Y. LI
DESIGNED BY
Y. LI
CHECKED BY
J. TSCHIDA
COMM. NO. XXXXXXX

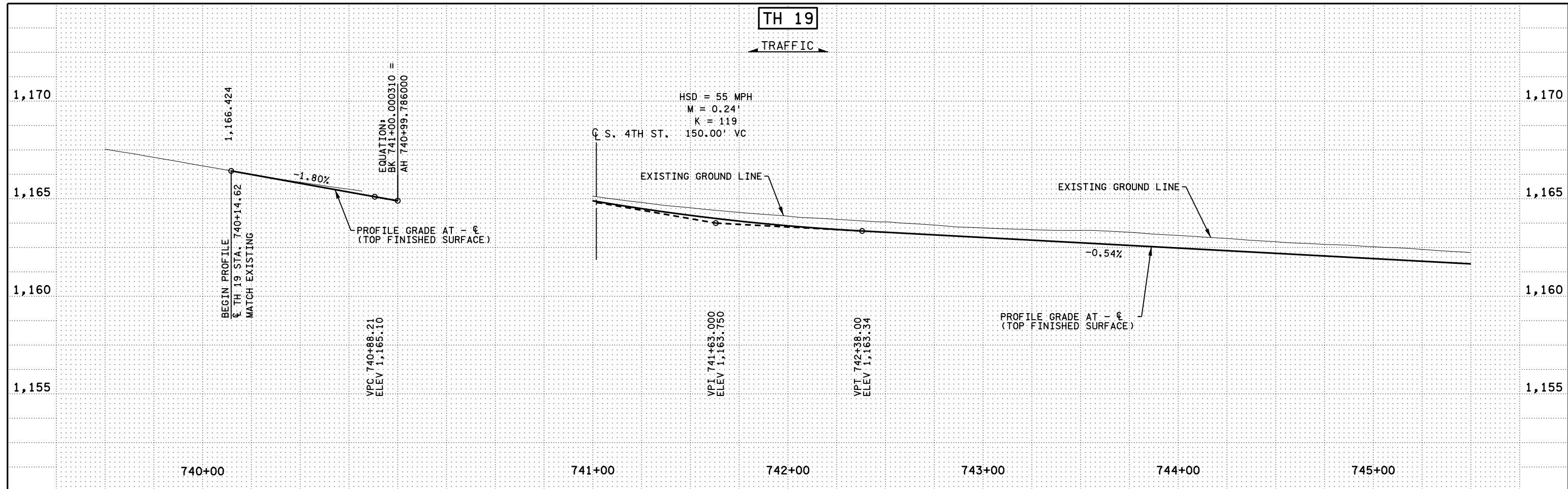


MINNESOTA DEPARTMENT OF TRANSPORTATION
INTERSECTION AND ADA PLANS
SP 4204-40 (TH 19)

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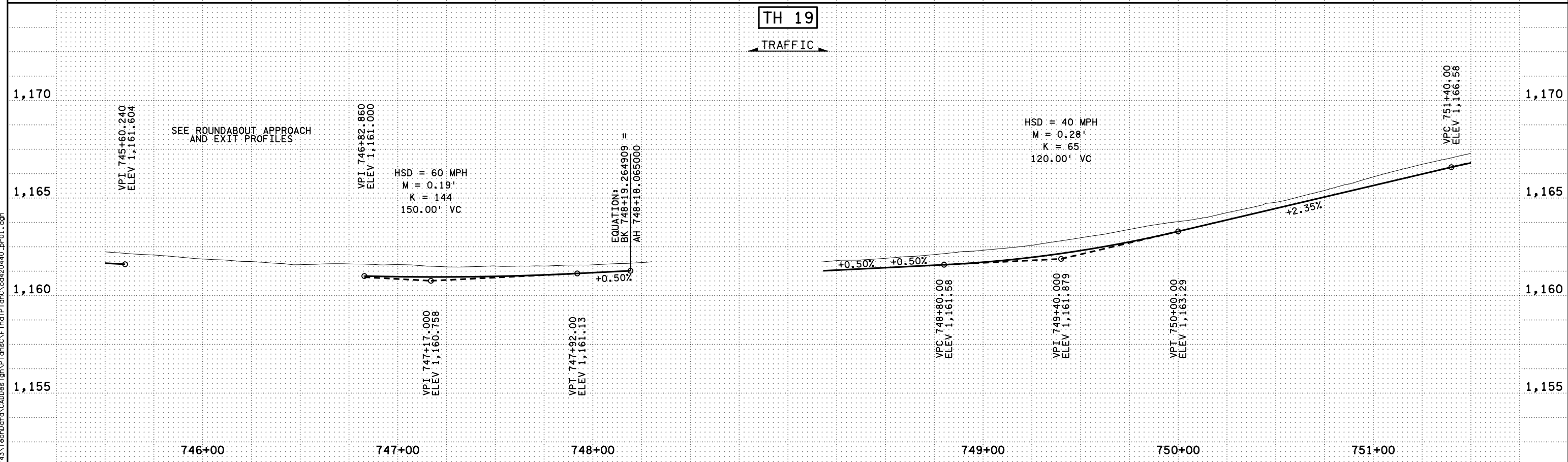
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NO	DATE	BY	CKD	APPR	REVISION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: KYLE F. HARRISON

Date: License #: 53658

STATE AID PROJECT NO. X

STATE PROJECT NO. 4204-40

COUNTY PROJECT NO. X

CITY PROJECT NO. X

DRAWN BY J. VAN BECK

DESIGNED BY C. FIENUP

CHECKED BY K. HARRISON

COMM. NO. 2214743



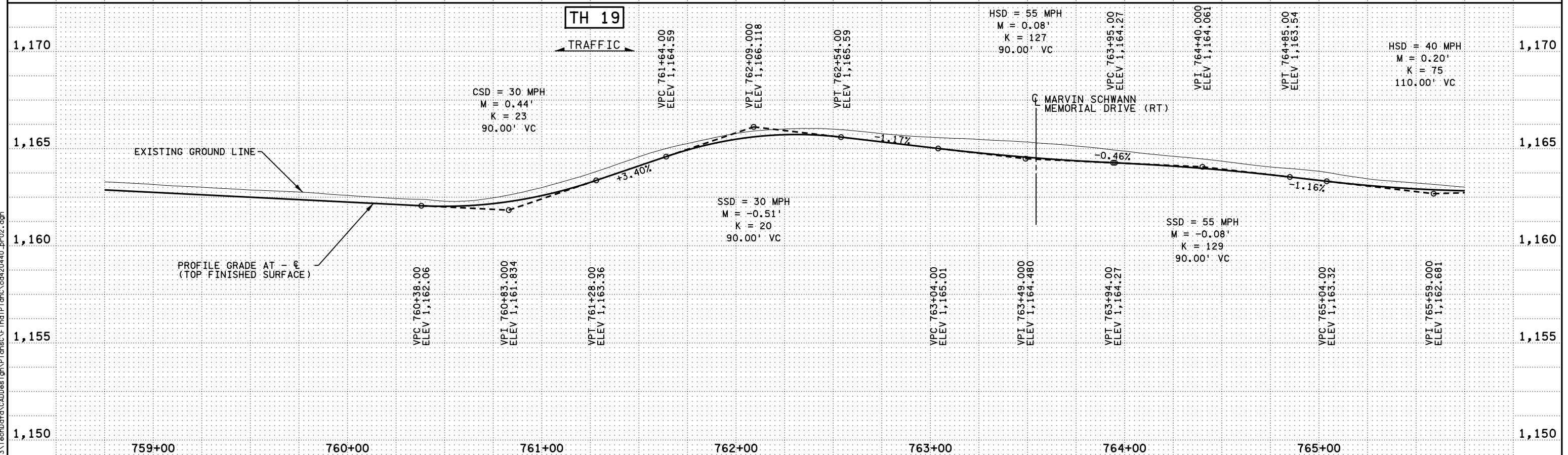
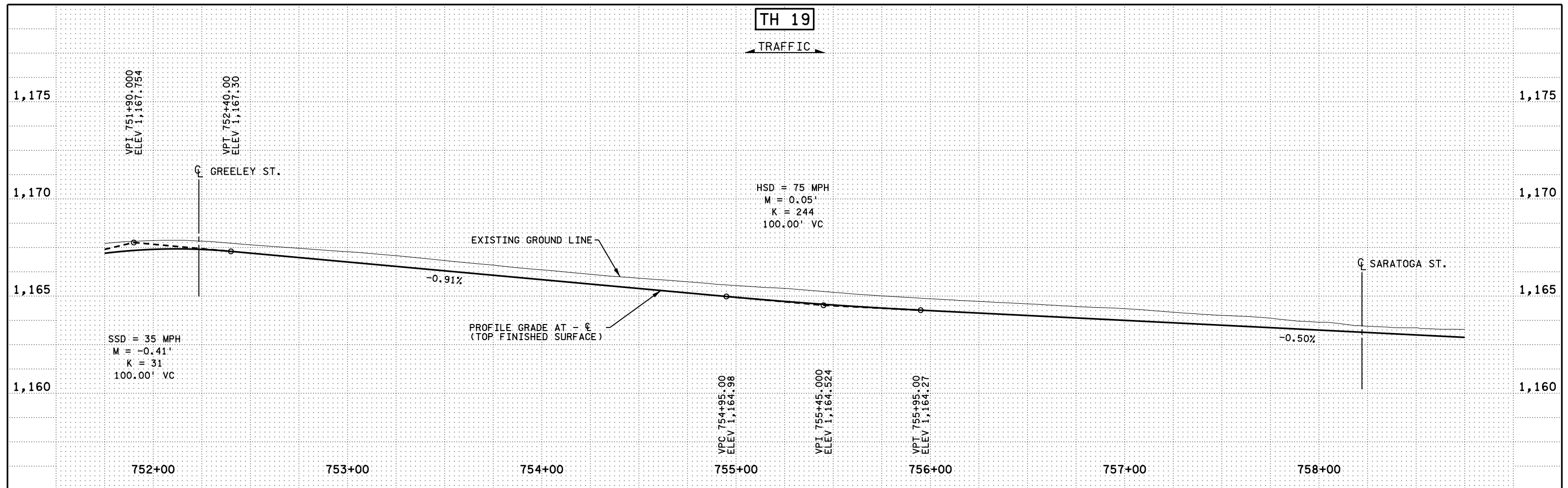
MINNESOTA DEPARTMENT OF TRANSPORTATION

PROFILES

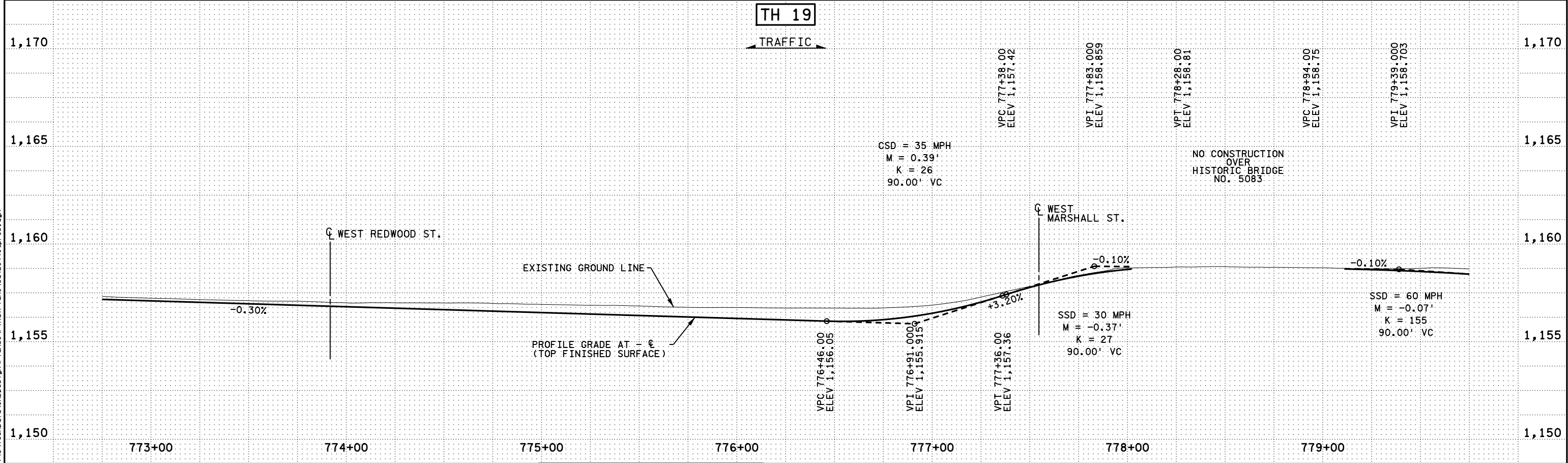
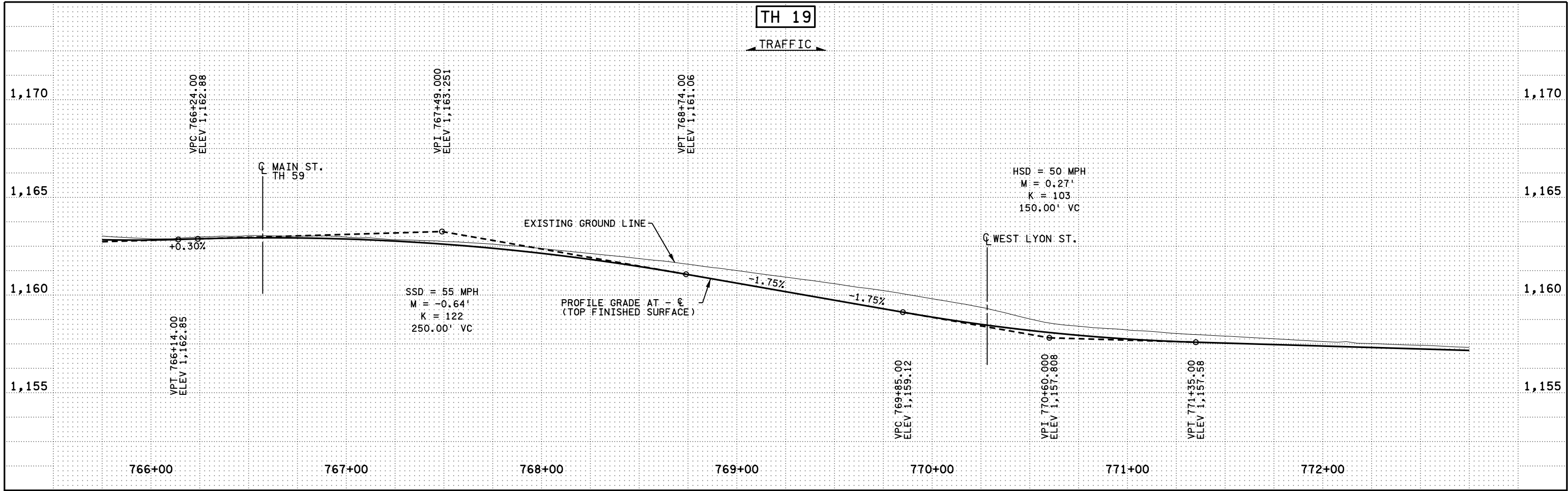
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					I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota. Print Name: <u>KYLE F. HARRISON</u> Date _____ License # <u>53658</u>		STATE AID PROJECT NO. <u>X</u> STATE PROJECT NO. <u>4204-40</u> COUNTY PROJECT NO. <u>X</u> CITY PROJECT NO. <u>X</u>		DRAWN BY <u>J. VAN BECK</u> DESIGNED BY <u>C. FIENUP</u> CHECKED BY <u>K. HARRISON</u> COMM. NO. <u>2214743</u>				MINNESOTA DEPARTMENT OF TRANSPORTATION PROFILES SP 4204-40 (TH 19)		SHEET 99 OF 122	
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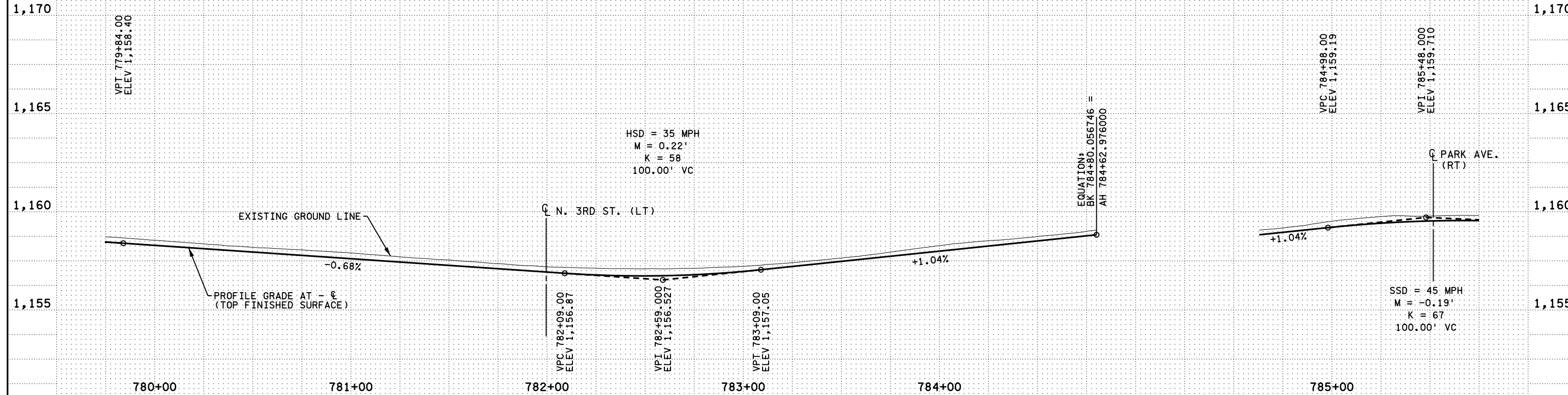


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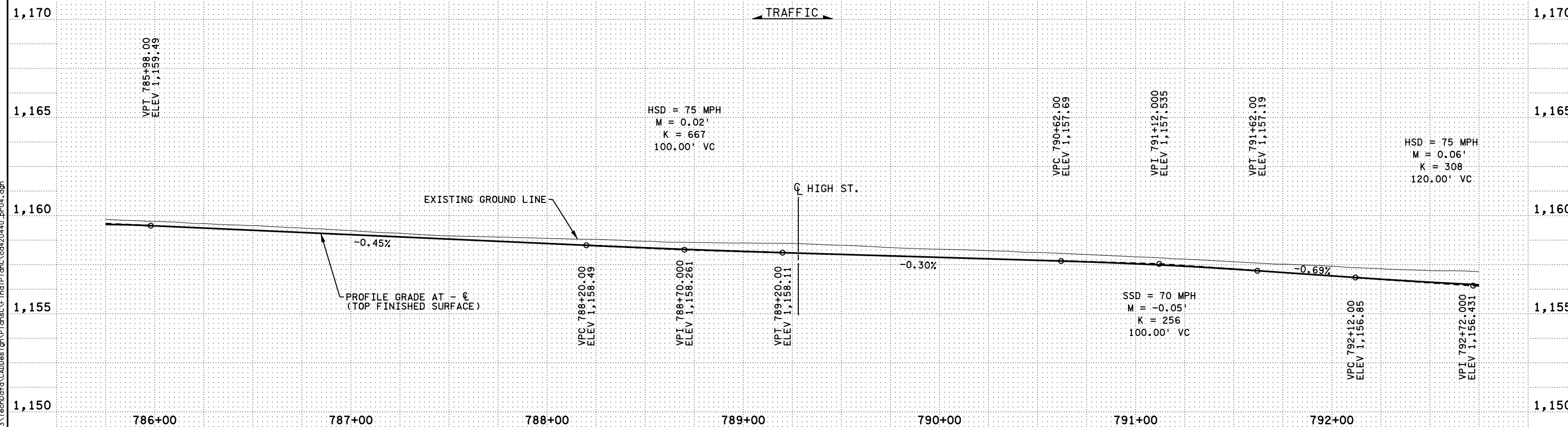
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NO	DATE	BY	CKD	APPR	REVISION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: KYLE F. HARRISON

Date: License #: 53658

STATE AID PROJECT NO. X

STATE PROJECT NO. 4204-40

COUNTY PROJECT NO. X

CITY PROJECT NO. X

DRAWN BY J. VAN BECK

DESIGNED BY C. FIENUP

CHECKED BY K. HARRISON

COMM. NO. 2214743



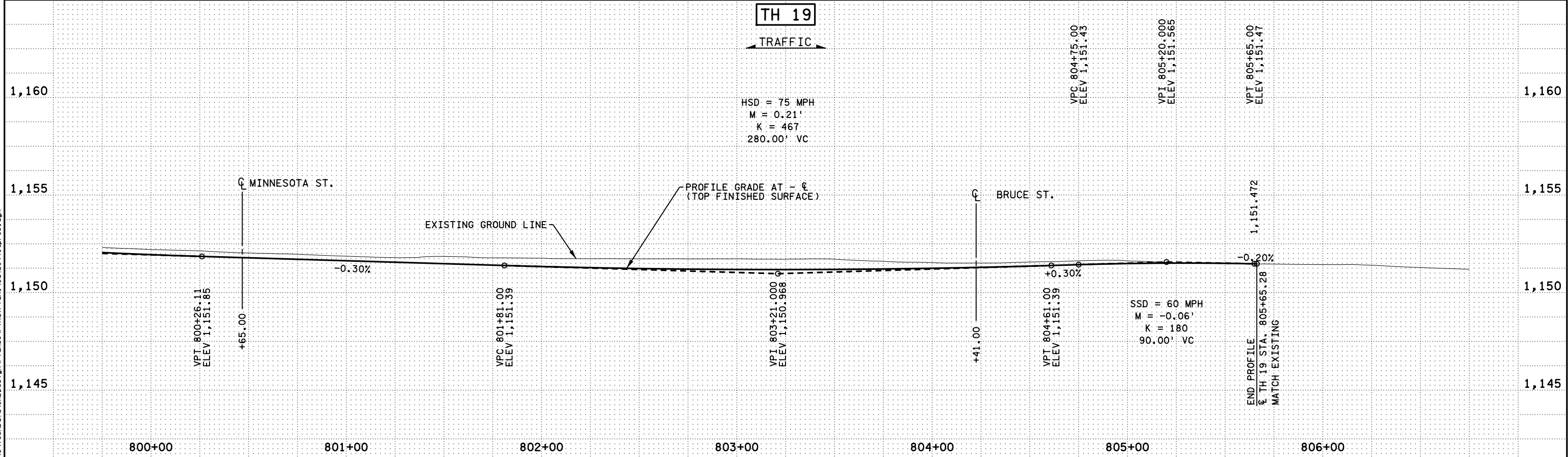
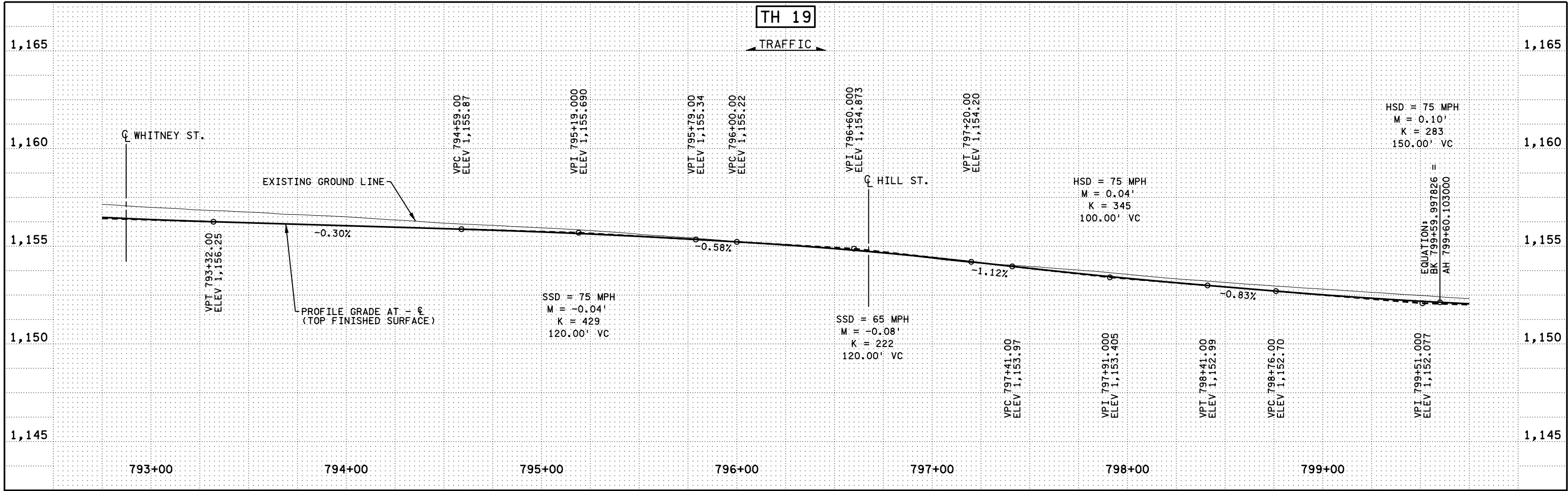
MINNESOTA DEPARTMENT OF TRANSPORTATION

PROFILES

SP 4204-40 (TH 19)

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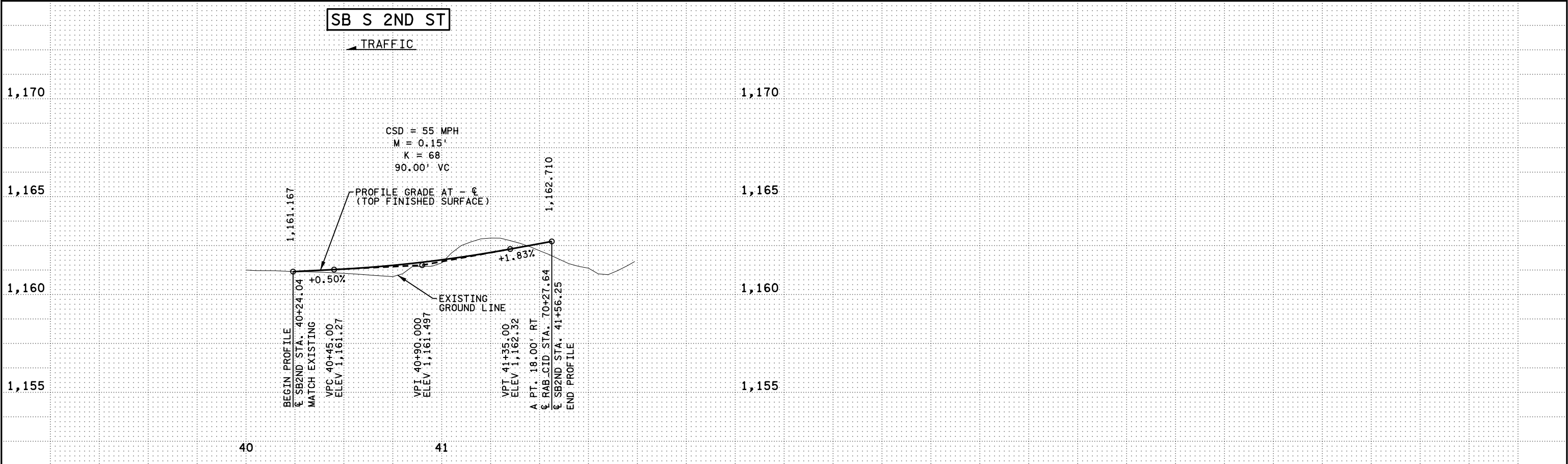
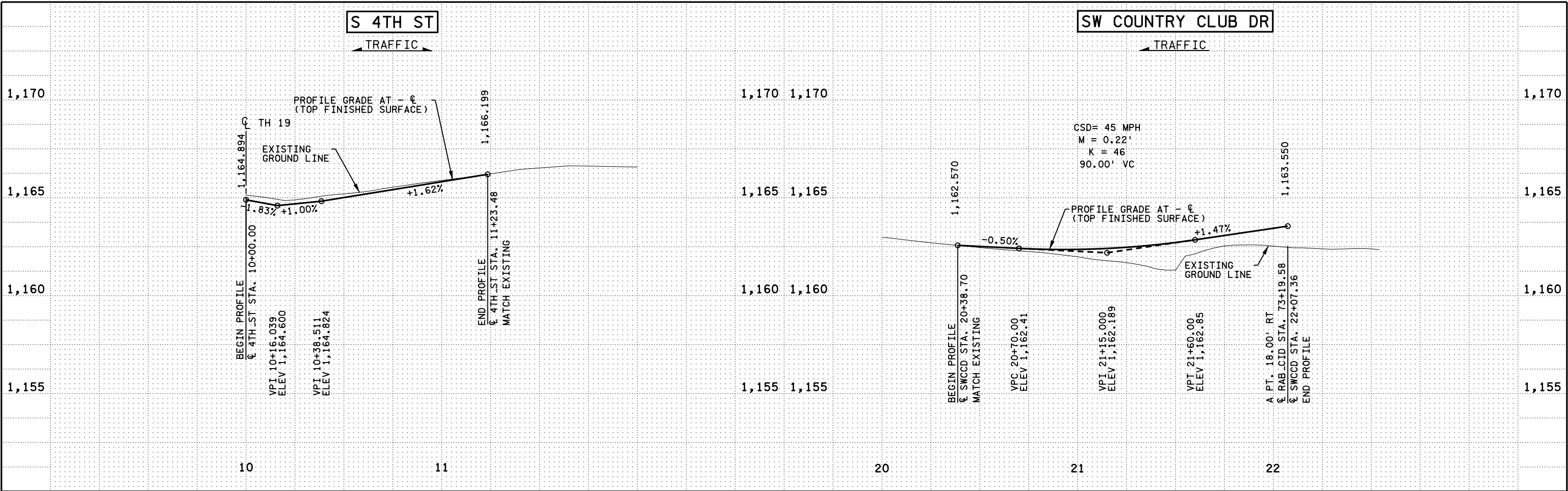
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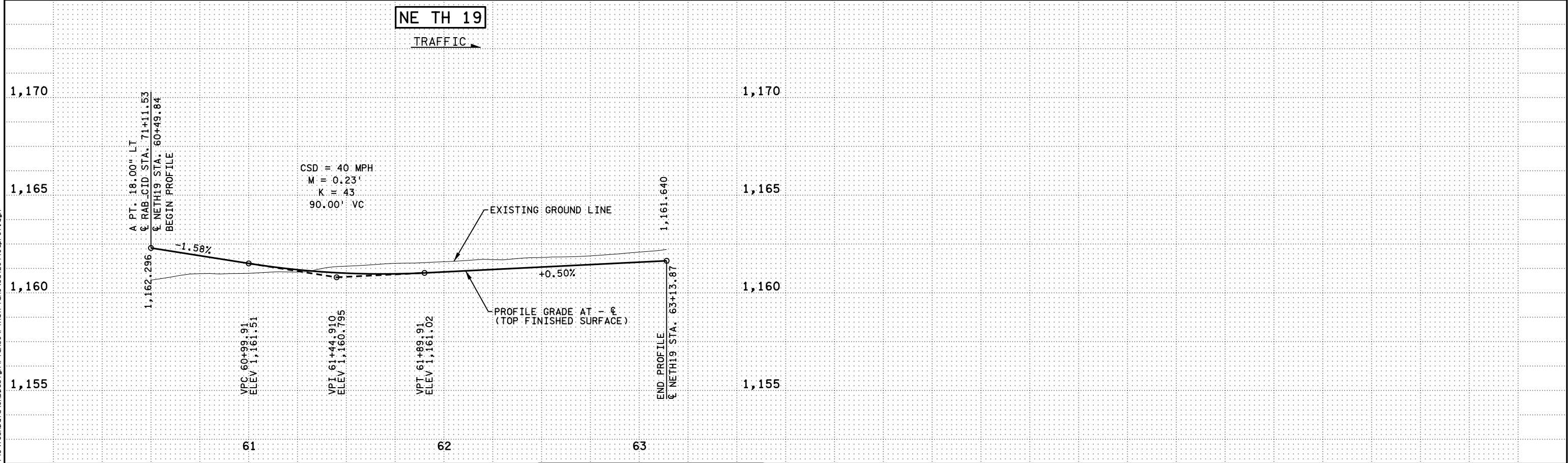
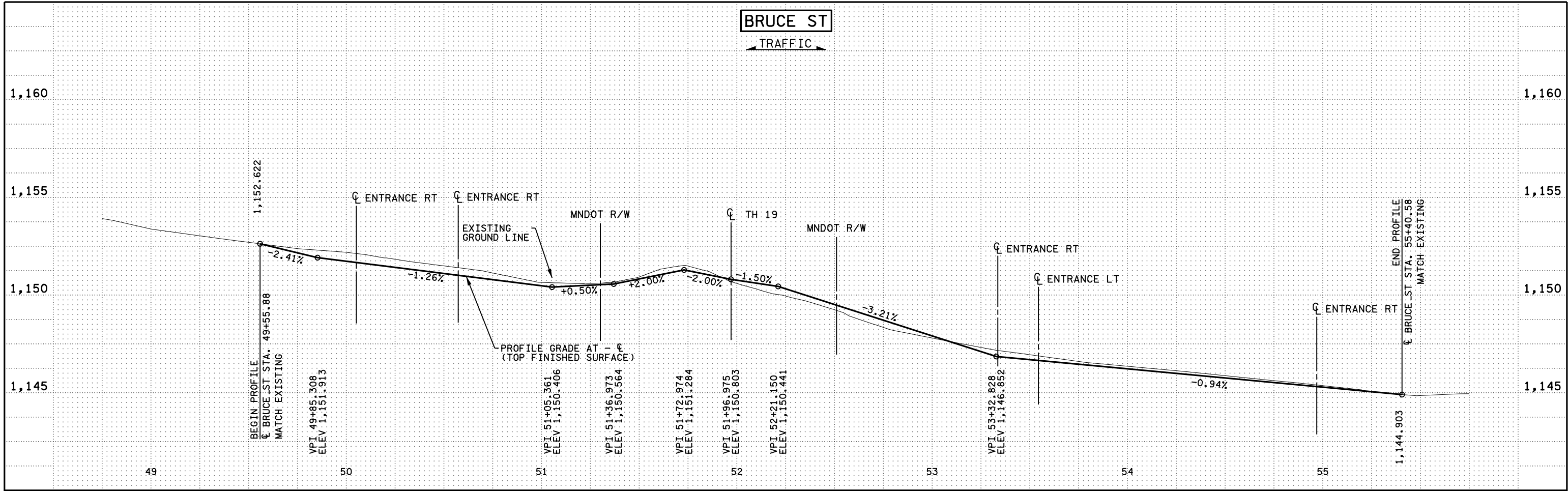
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MINNESOTA DEPARTMENT OF TRANSPORTATION

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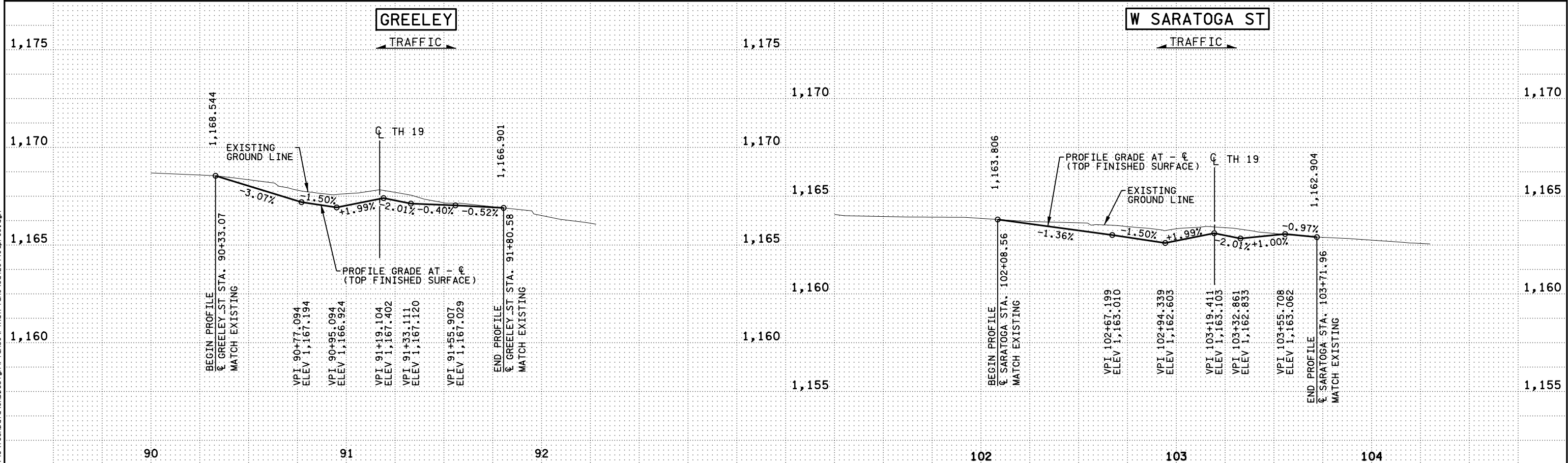
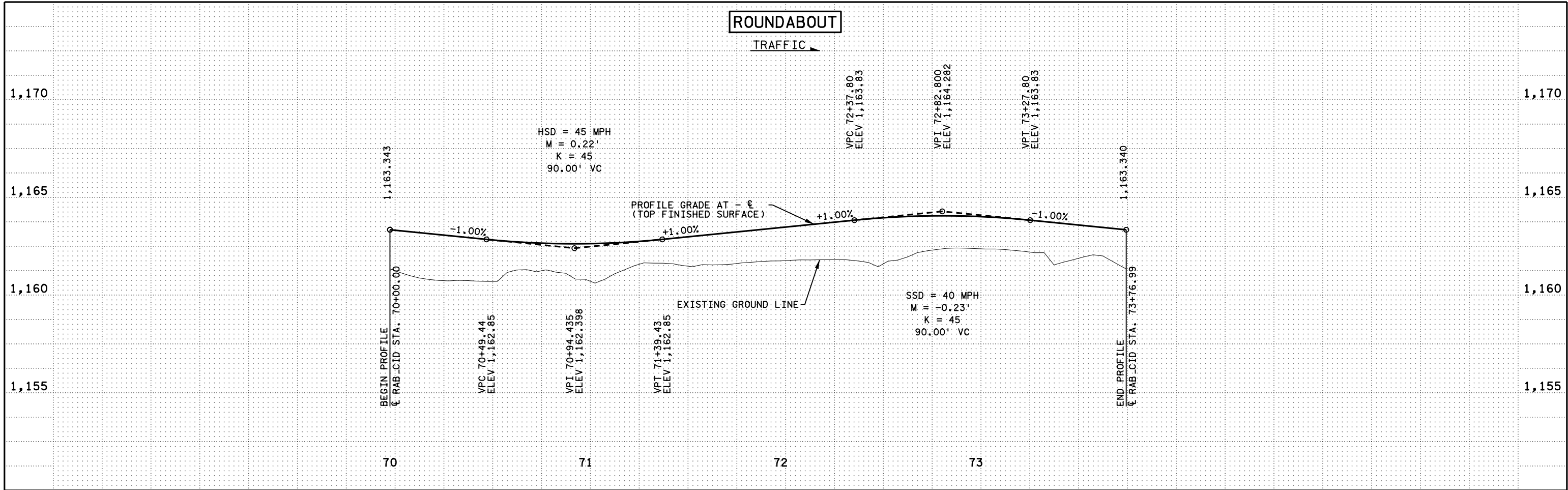
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DESIGNED BY
C. FIENUP

CHECKED BY
K. HARRISON

COMM. NO. 2214743



MINNESOTA DEPARTMENT OF TRANSPORTATION

PROFILES

SP 4204-40 (TH 19)

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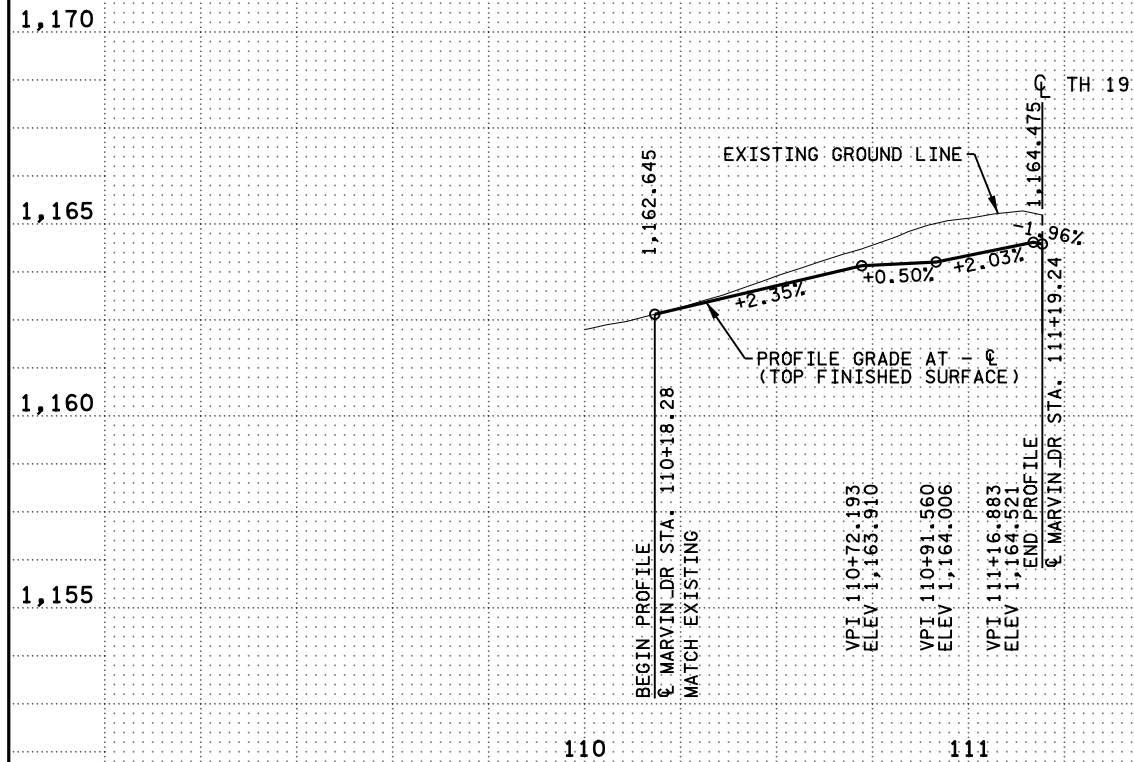
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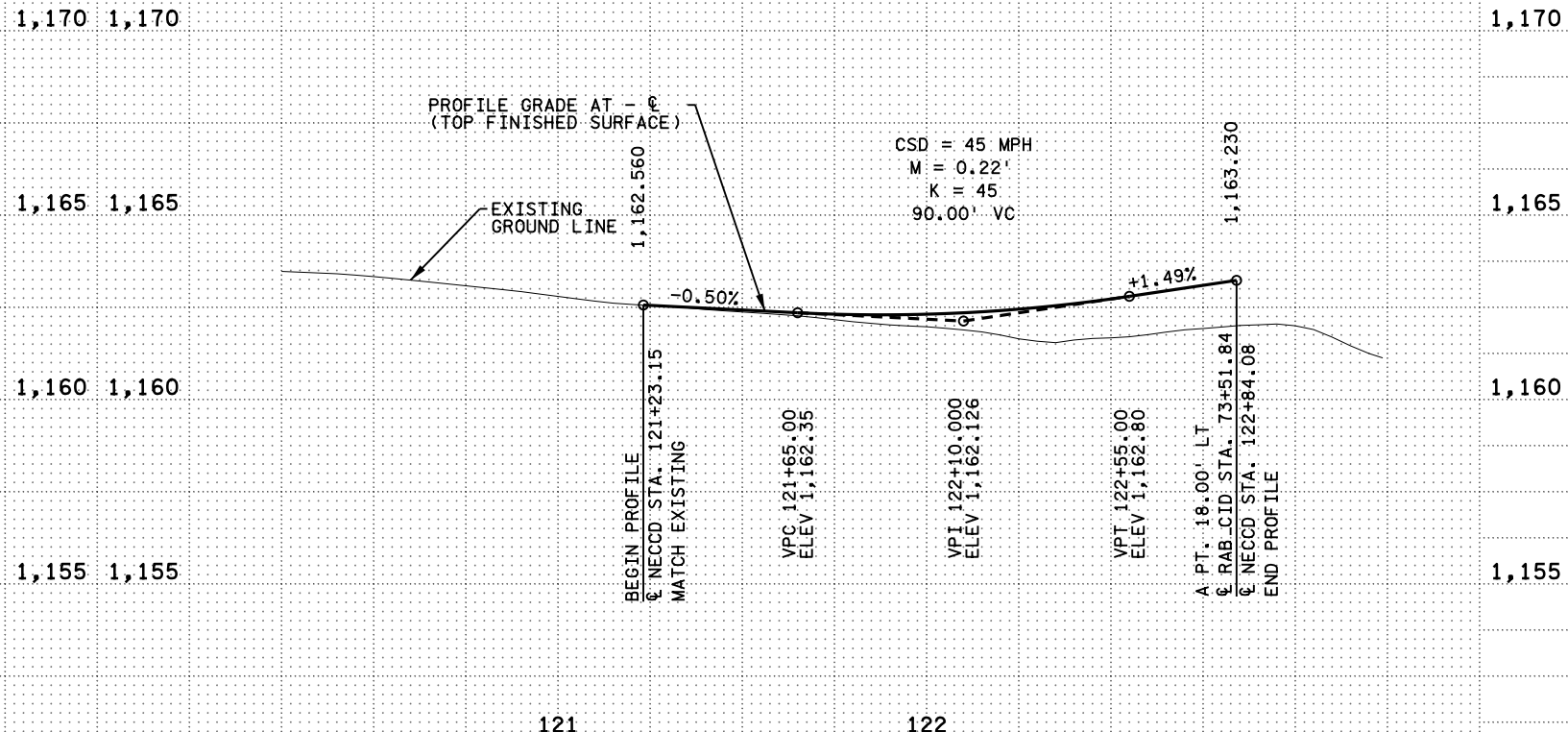
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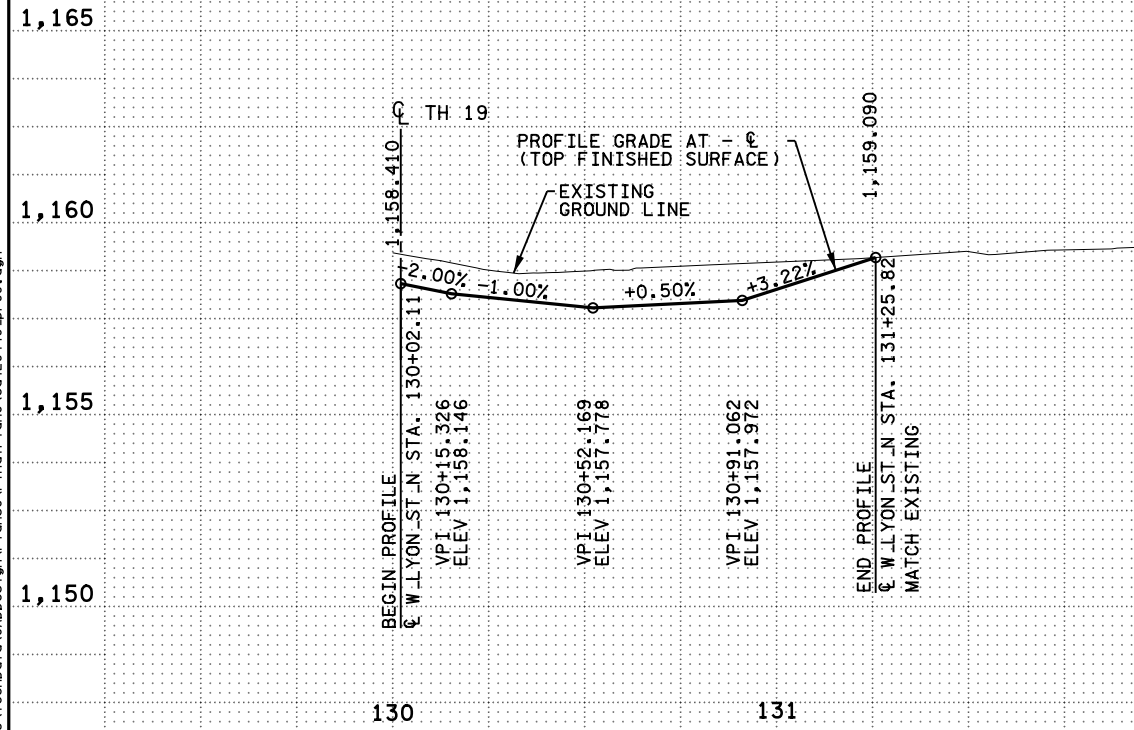
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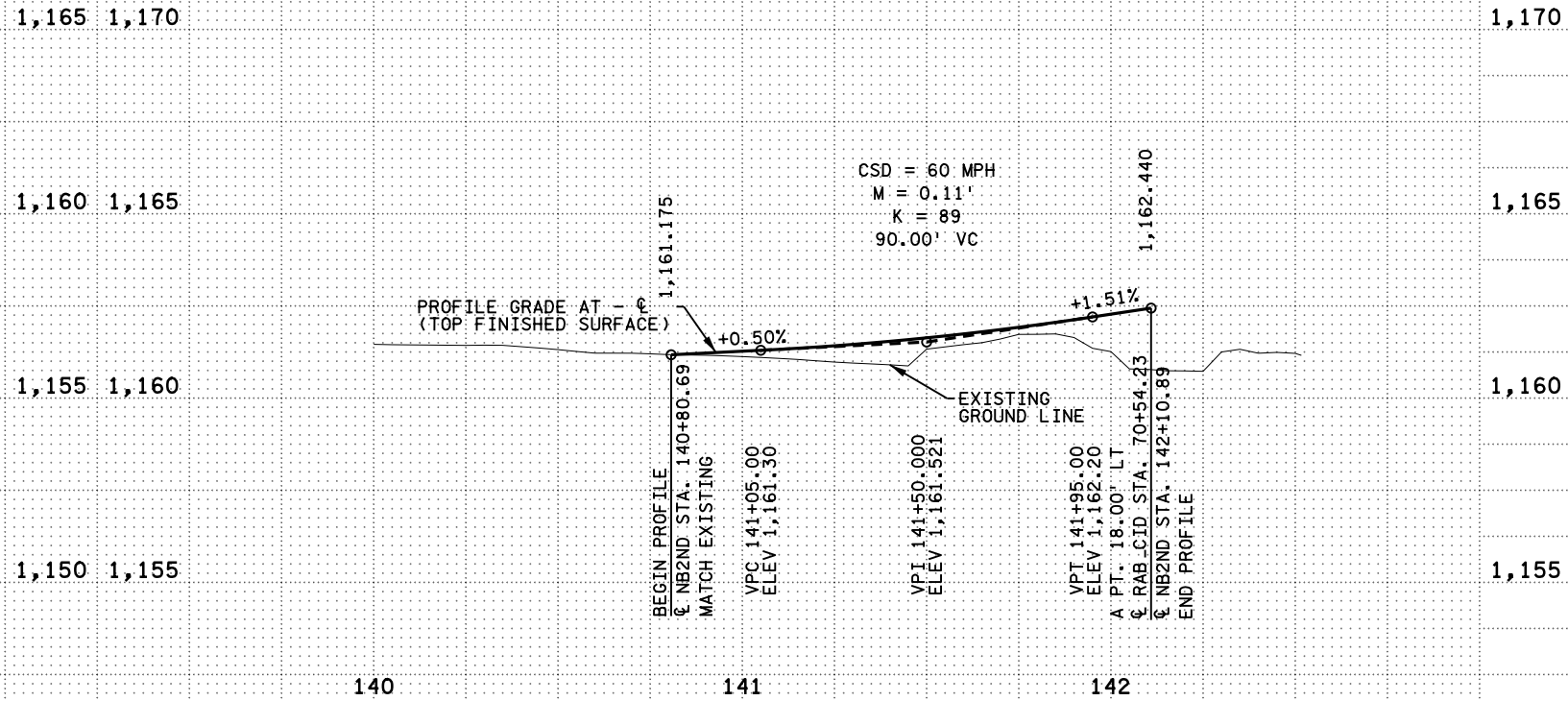
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COUNTY PROJECT NO. X
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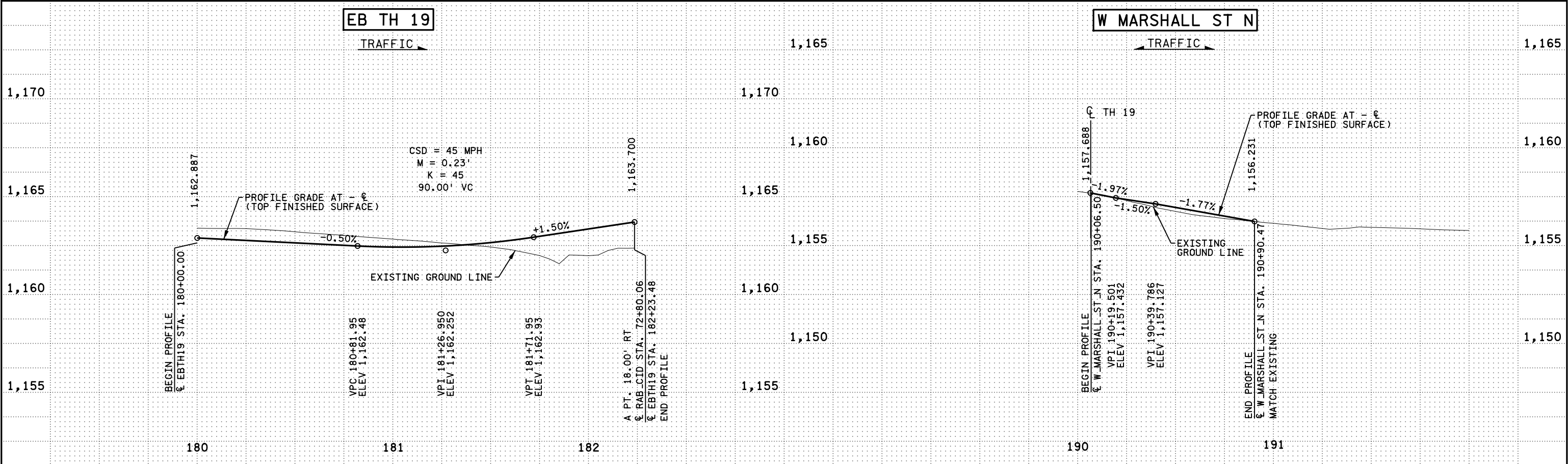
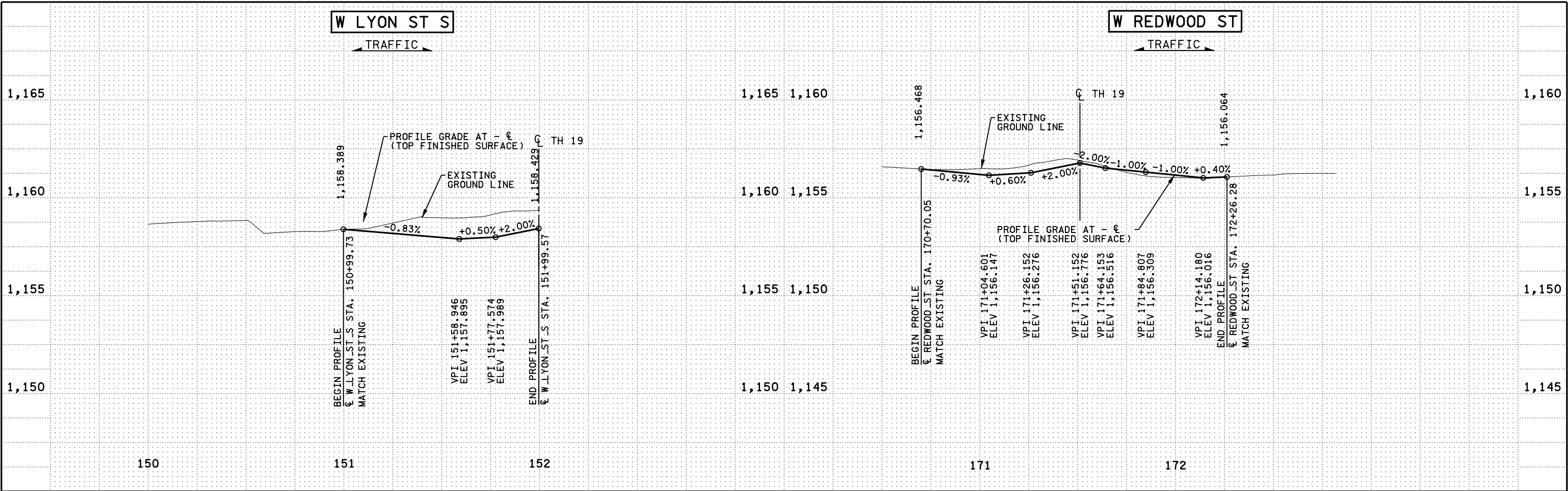


MINNESOTA DEPARTMENT OF TRANSPORTATION

PROFILES
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COMM. NO. 2214743

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COUNTY PROJECT NO. X

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GENERAL NOTES:

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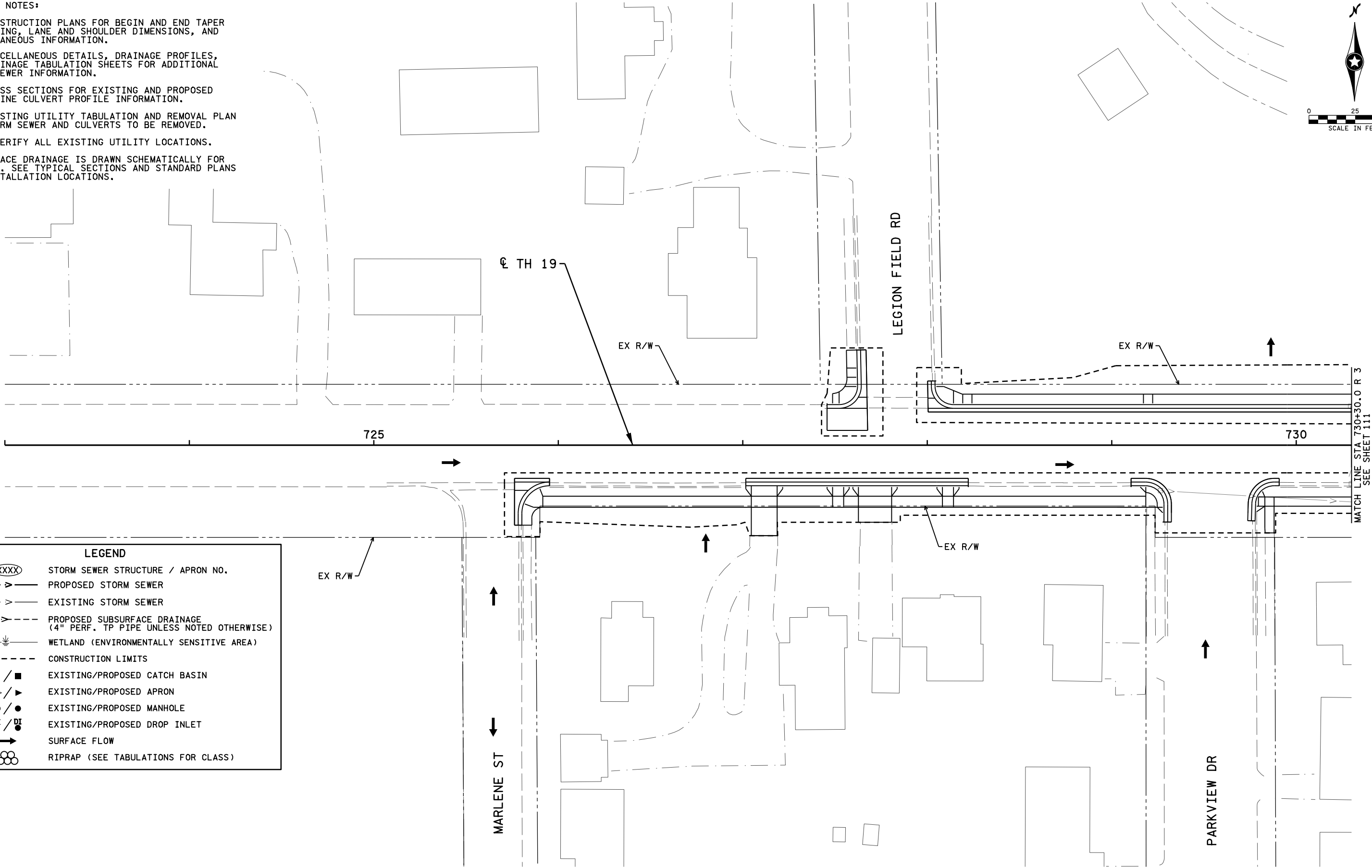
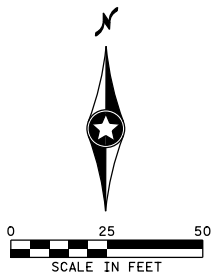
SEE MISCELLANEOUS DETAILS, DRAINAGE PROFILES, AND DRAINAGE TABULATION SHEETS FOR ADDITIONAL STORM SEWER INFORMATION.

SEE CROSS SECTIONS FOR EXISTING AND PROPOSED CENTERLINE CULVERT PROFILE INFORMATION.

SEE EXISTING UTILITY TABULATION AND REMOVAL PLAN FOR STORM SEWER AND CULVERTS TO BE REMOVED.

FIELD VERIFY ALL EXISTING UTILITY LOCATIONS.

SUBSURFACE DRAINAGE IS DRAWN SCHEMATICALLY FOR CLARITY. SEE TYPICAL SECTIONS AND STANDARD PLANS FOR INSTALLATION LOCATIONS.



LEGEND

- XXXX STORM SEWER STRUCTURE / APRON NO.
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- v — EXISTING STORM SEWER
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- (tree symbol) — WETLAND (ENVIRONMENTALLY SENSITIVE AREA)
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- / ● EXISTING/PROPOSED DROP INLET
- SURFACE FLOW
- RIPRAP (SEE TABULATIONS FOR CLASS)

SHEET 1 OF 13 SHEETS

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139-112-006
139-115-004
139-122-007
139-124-005
STATE PROJECT NO.
4204-40
CITY PROJECT NO. X

DRAWN BY
J. VAN BECK
DESIGNED BY
Z. THELEN
CHECKED BY
J. NIELSEN
COMM. NO. 2214743



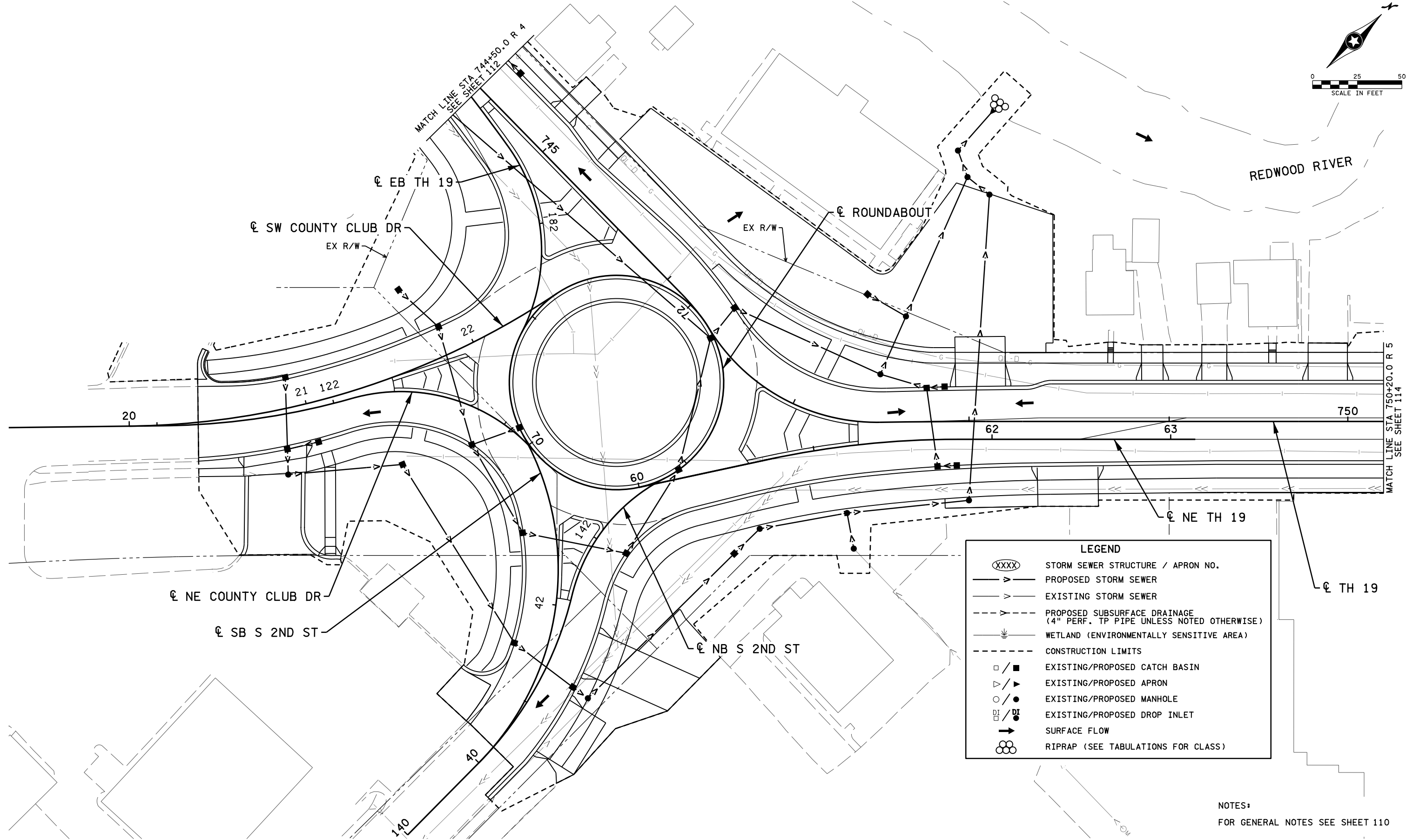
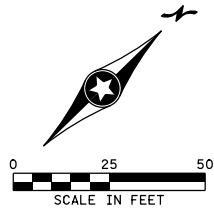
MINNESOTA DEPARTMENT OF TRANSPORTATION

DRAINAGE PLANS
SP 4204-40 (TH 19)

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LEGEND

- (XXXX) STORM SEWER STRUCTURE / APRON NO.
- >— PROPOSED STORM SEWER
- - ->- - - EXISTING STORM SEWER
- - ->- - - PROPOSED SUBSURFACE DRAINAGE (4" PERF. TP PIPE UNLESS NOTED OTHERWISE)
- WETLAND (ENVIRONMENTALLY SENSITIVE AREA)
- - - CONSTRUCTION LIMITS
- / ■ EXISTING/PROPOSED CATCH BASIN
- ▷ / ◁ EXISTING/PROPOSED APRON
- / ● EXISTING/PROPOSED MANHOLE
- / ● EXISTING/PROPOSED DROP INLET
- SURFACE FLOW
- ⊙ RIPRAP (SEE TABULATIONS FOR CLASS)

NOTES:
FOR GENERAL NOTES SEE SHEET 110

SHEET 4 OF 13 SHEETS

					I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.		STATE AID PROJECT NO. 139-111-007 139-112-006 139-115-004 139-122-007 139-124-005		DRAWN BY J. VAN BECK			MINNESOTA DEPARTMENT OF TRANSPORTATION		SHEET 113 OF 122
					Print Name: ZACHARY J. THELEN				DESIGNED BY Z. THELEN			DRAINAGE PLANS SP 4204-40 (TH 19)		
					Date _____ License # 57773		STATE PROJECT NO. 4204-40		CHECKED BY J. NIELSEN					
							CITY PROJECT NO. X		COMM. NO. 2214743					
NO	DATE	BY	CKD	APPR	REVISION									
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LEGEND

XXXX STORM SEWER STRUCTURE / APRON NO.

— V — PROPOSED STORM SEWER

— V — EXISTING STORM SEWER

- - - Y - - - PROPOSED SUBSURFACE DRAINAGE
(4" PERF. TP PIPE UNLESS NOTED OTHERWISE)

WETLAND (ENVIRONMENTALLY SENSITIVE AREA)

- - - - - CONSTRUCTION LIMITS

□ / ■ EXISTING/PROPOSED CATCH BASIN

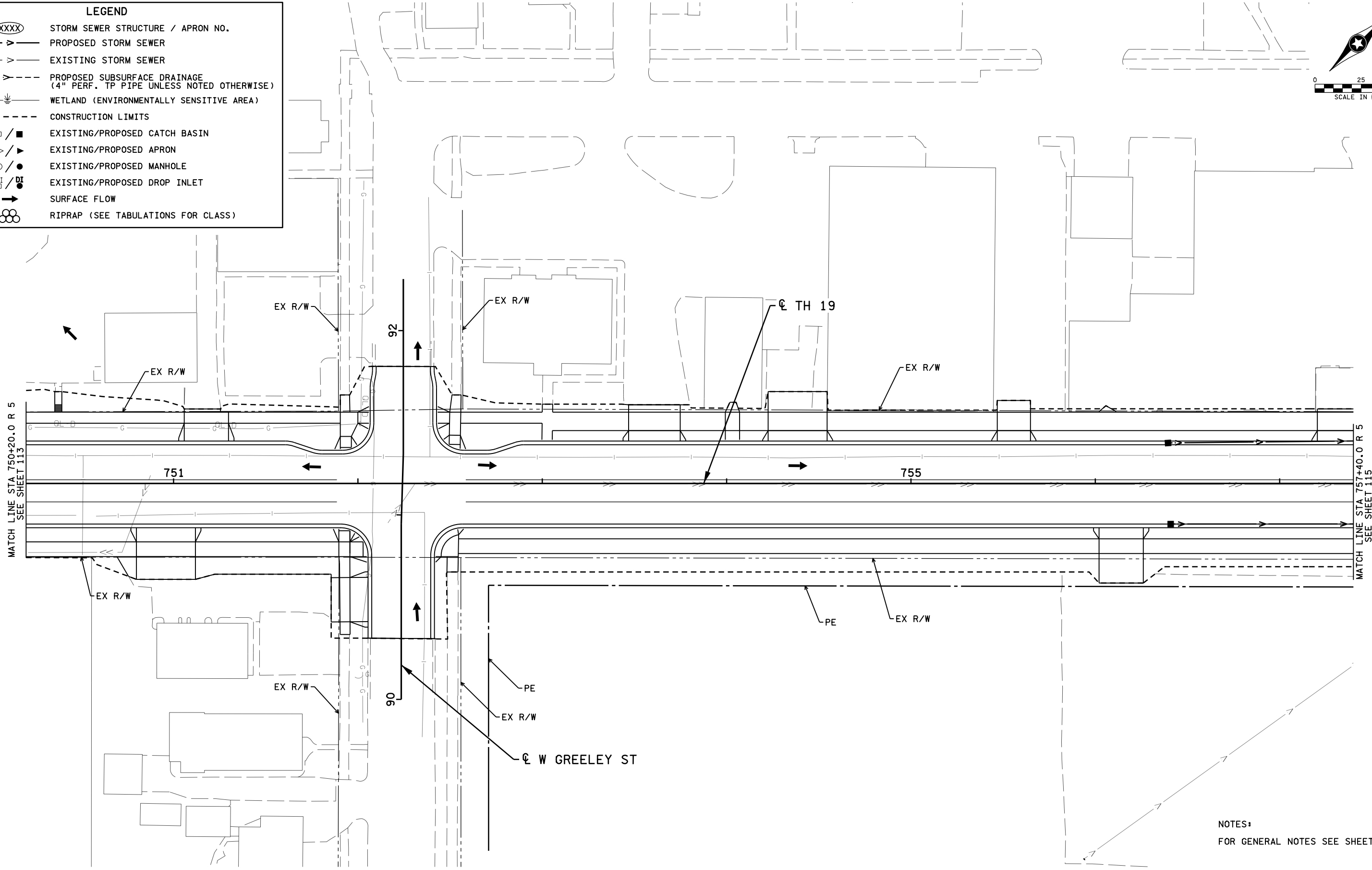
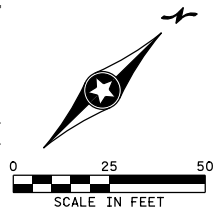
▽ / ▴ EXISTING/PROPOSED APRON

○ / ● EXISTING/PROPOSED MANHOLE

DI / DI EXISTING/PROPOSED DROP INLET

→ SURFACE FLOW

⊗ RIPRAP (SEE TABULATIONS FOR CLASS)



NOTES:
FOR GENERAL NOTES SEE SHEET 110

SHEET 5 OF 13 SHEETS

NO	DATE	BY	CKD	APPR	REVISION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: ZACHARY J. THELEN

Date: _____ License # 57773

STATE AID PROJECT NO. 139-111-007 139-112-006 139-115-004 139-122-007 139-124-005	DRAWN BY J. VAN BECK DESIGNED BY Z. THELEN CHECKED BY J. NIELSEN COMM. NO. 2214743
STATE PROJECT NO. 4204-40	CITY PROJECT NO. X

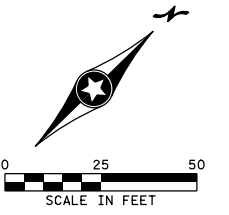
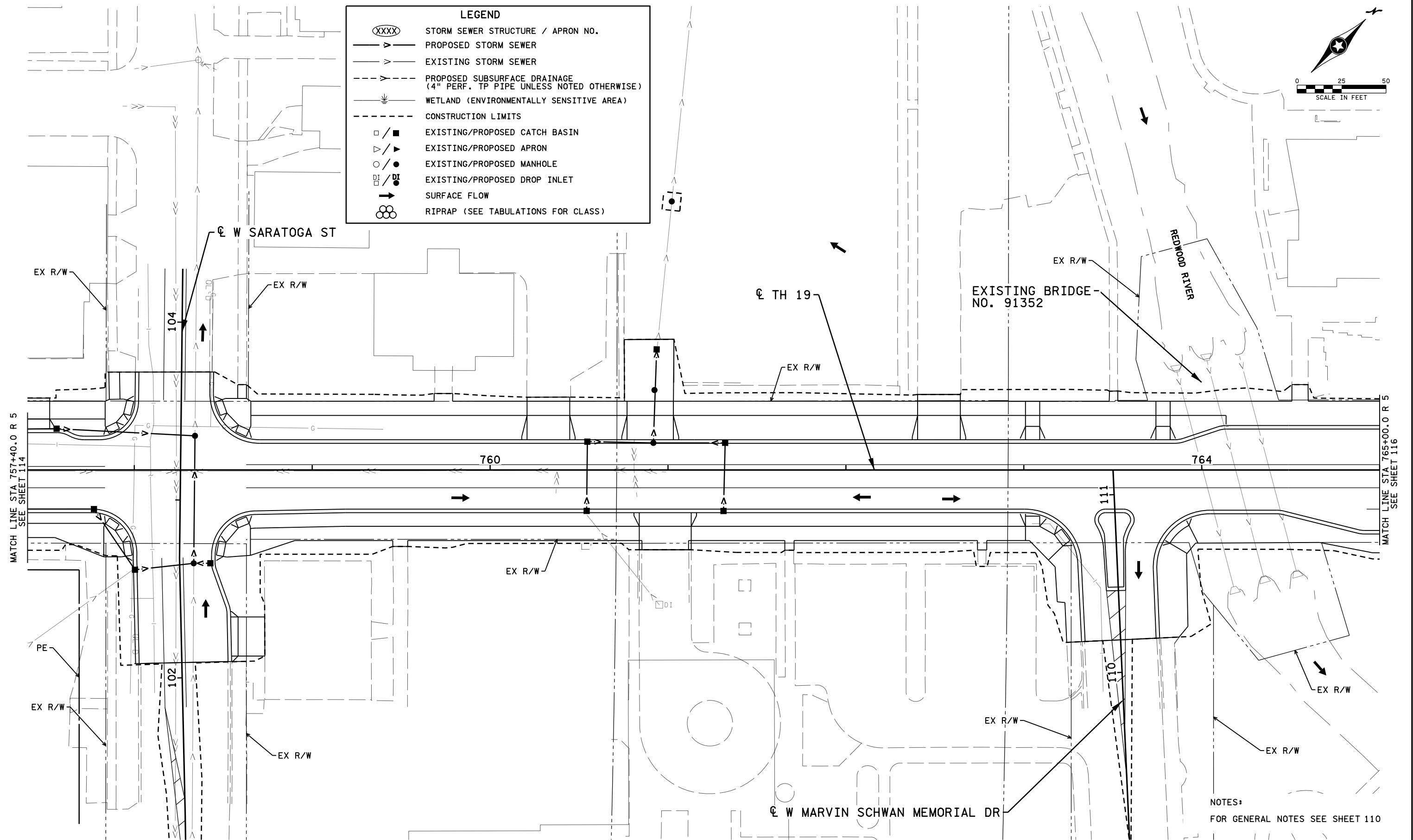


MINNESOTA DEPARTMENT OF TRANSPORTATION

DRAINAGE PLANS
SP 4204-40 (TH 19)

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SHEET 6 OF 13 SHEETS

MINNESOTA DEPARTMENT OF TRANSPORTATION

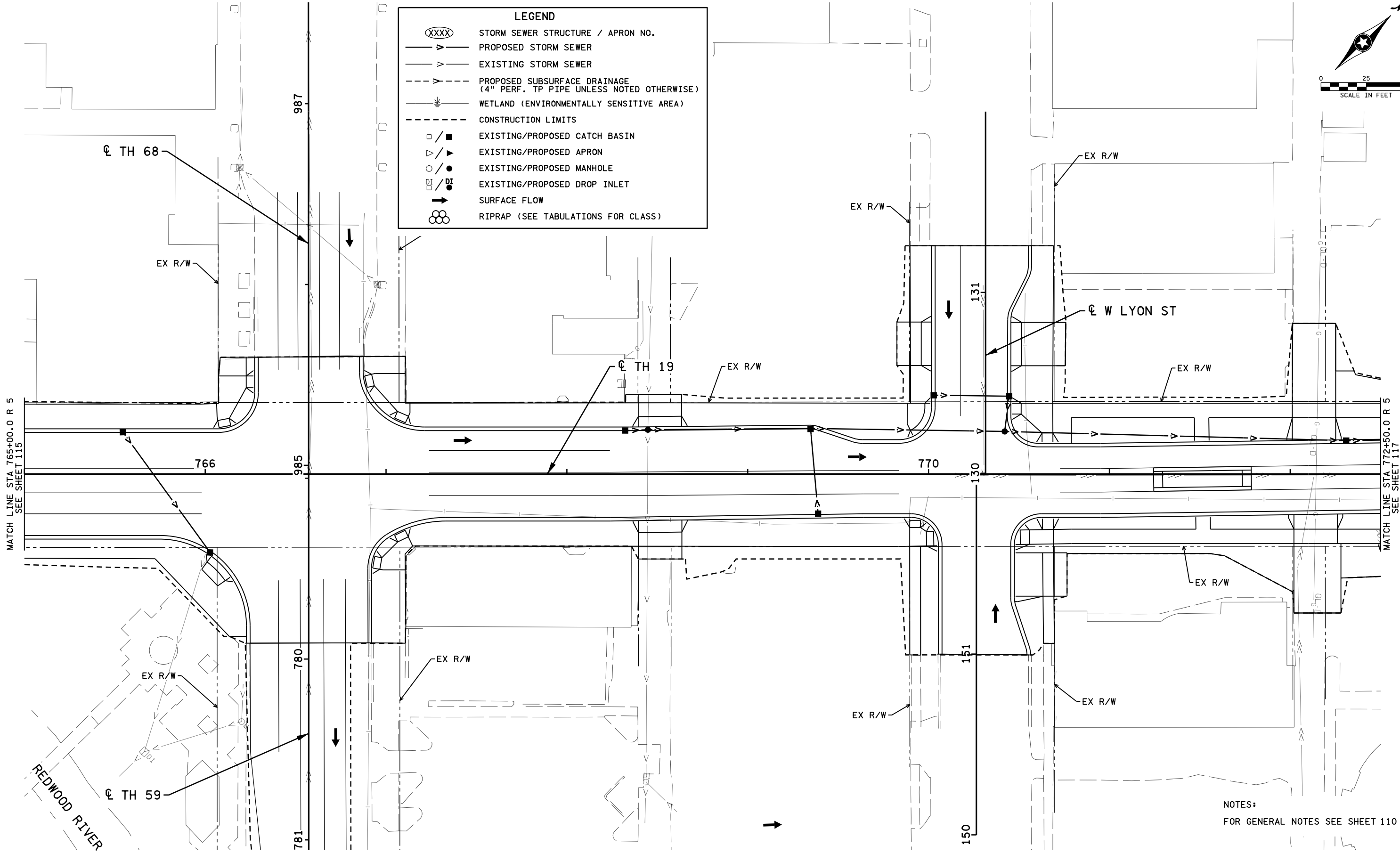
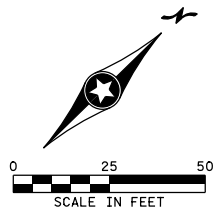
DRAWN BY	J. VAN BECK
DESIGNED BY	Z. THELEN
CHECKED BY	J. NIELSEN
COMM. NO. 2214743	

STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005
STATE PROJECT NO.
4204-40
CITY PROJECT NO. X

NO	DATE	BY	CKD	APPR	REVISION
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LEGEND

- XXXX STORM SEWER STRUCTURE / APRON NO.
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- PROPOSED SUBSURFACE DRAINAGE (4" PERF. TP PIPE UNLESS NOTED OTHERWISE)
- WETLAND (ENVIRONMENTALLY SENSITIVE AREA)
- CONSTRUCTION LIMITS
- EXISTING/PROPOSED CATCH BASIN
- EXISTING/PROPOSED APRON
- EXISTING/PROPOSED MANHOLE
- EXISTING/PROPOSED DROP INLET
- SURFACE FLOW
- RIPRAP (SEE TABULATIONS FOR CLASS)



NOTES:
FOR GENERAL NOTES SEE SHEET 110

SHEET 7 OF 13 SHEETS

NO	DATE	BY	CKD	APPR	REVISION
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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: ZACHARY J. THELEN

Date: License #: 57773

STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005

STATE PROJECT NO.
4204-40

CITY PROJECT NO. X

DRAWN BY
J. VAN BECK

DESIGNED BY
Z. THELEN

CHECKED BY
J. NIELSEN

COMM. NO. 2214743

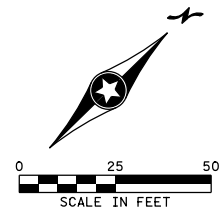


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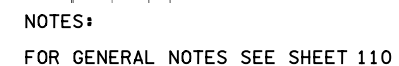
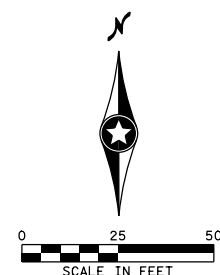
DRAINAGE PLANS
SP 4204-40 (TH 19)

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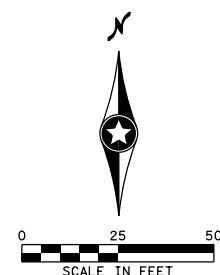
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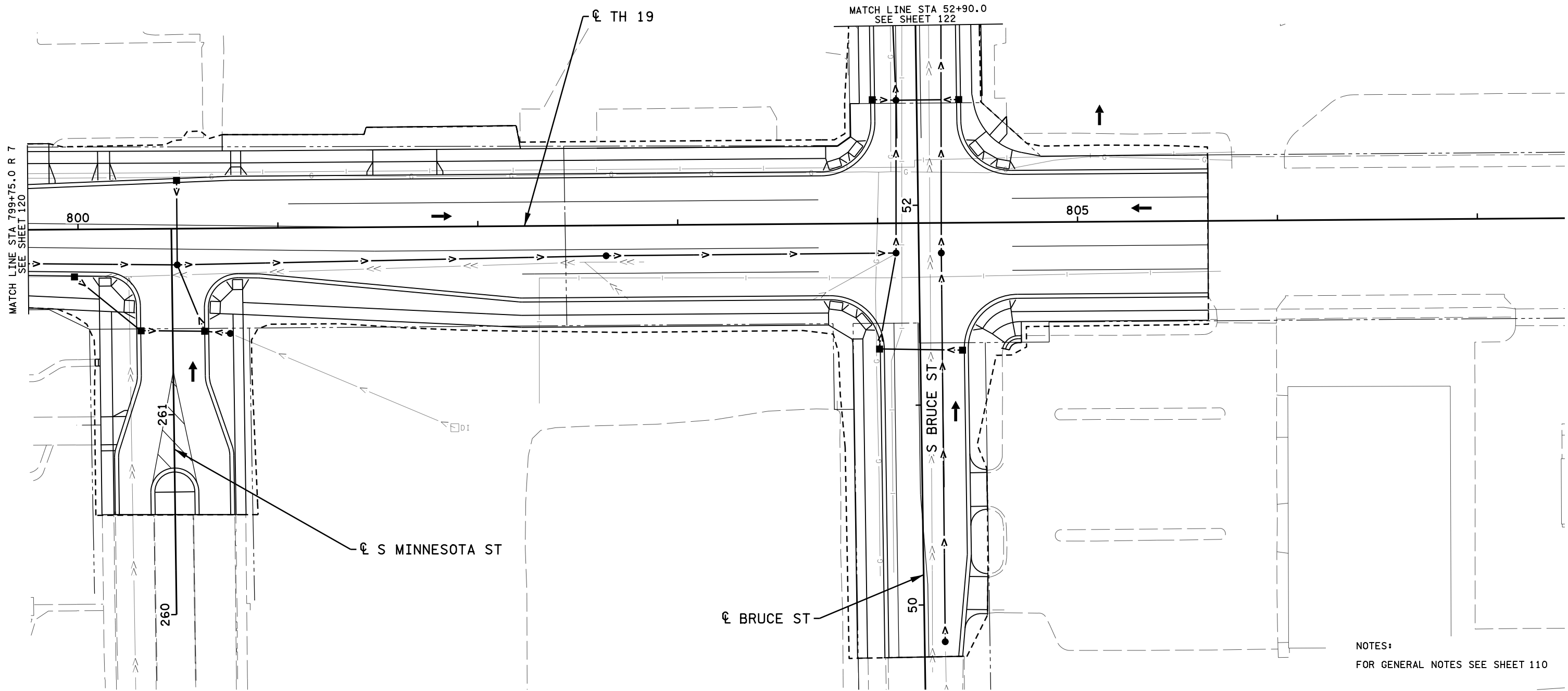
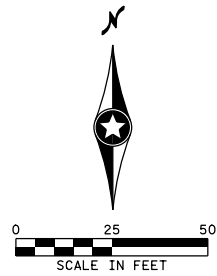
DRAINAGE PLANS
SP 4204-40 (TH 19)



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LEGEND

- XXXX STORM SEWER STRUCTURE / APRON NO.
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- PROPOSED SUBSURFACE DRAINAGE (4" PERF. TP PIPE UNLESS NOTED OTHERWISE)
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- EXISTING/PROPOSED MANHOLE
- EXISTING/PROPOSED DROP INLET
- SURFACE FLOW
- RIPRAP (SEE TABULATIONS FOR CLASS)



NOTES:
FOR GENERAL NOTES SEE SHEET 110

SHEET 12 OF 13 SHEETS

NO	DATE	BY	CKD	APPR	REVISION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: ZACHARY J. THELEN

Date: License #: 57773

STATE AID PROJECT NO.
139-111-007
139-112-006
139-115-004
139-122-007
139-124-005

STATE PROJECT NO.
4204-40

CITY PROJECT NO. X

DRAWN BY
J. VAN BECK

DESIGNED BY
Z. THELEN

CHECKED BY
J. NIELSEN

COMM. NO. 2214743



MINNESOTA DEPARTMENT OF TRANSPORTATION

DRAINAGE PLANS
SP 4204-40 (TH 19)

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STORM SEWER STRUCTURE / APRON NO.

PROPOSED STORM SEWER

EXISTING STORM SEWER

PROPOSED SUBSURFACE DRAINAGE
(4" PERF. TP PIPE UNLESS NOTED OTHERWISE)

WETLAND (ENVIRONMENTALLY SENSITIVE AREA)

CONSTRUCTION LIMITS

EXISTING/PROPOSED CATCH BASIN

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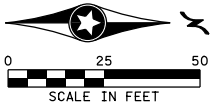
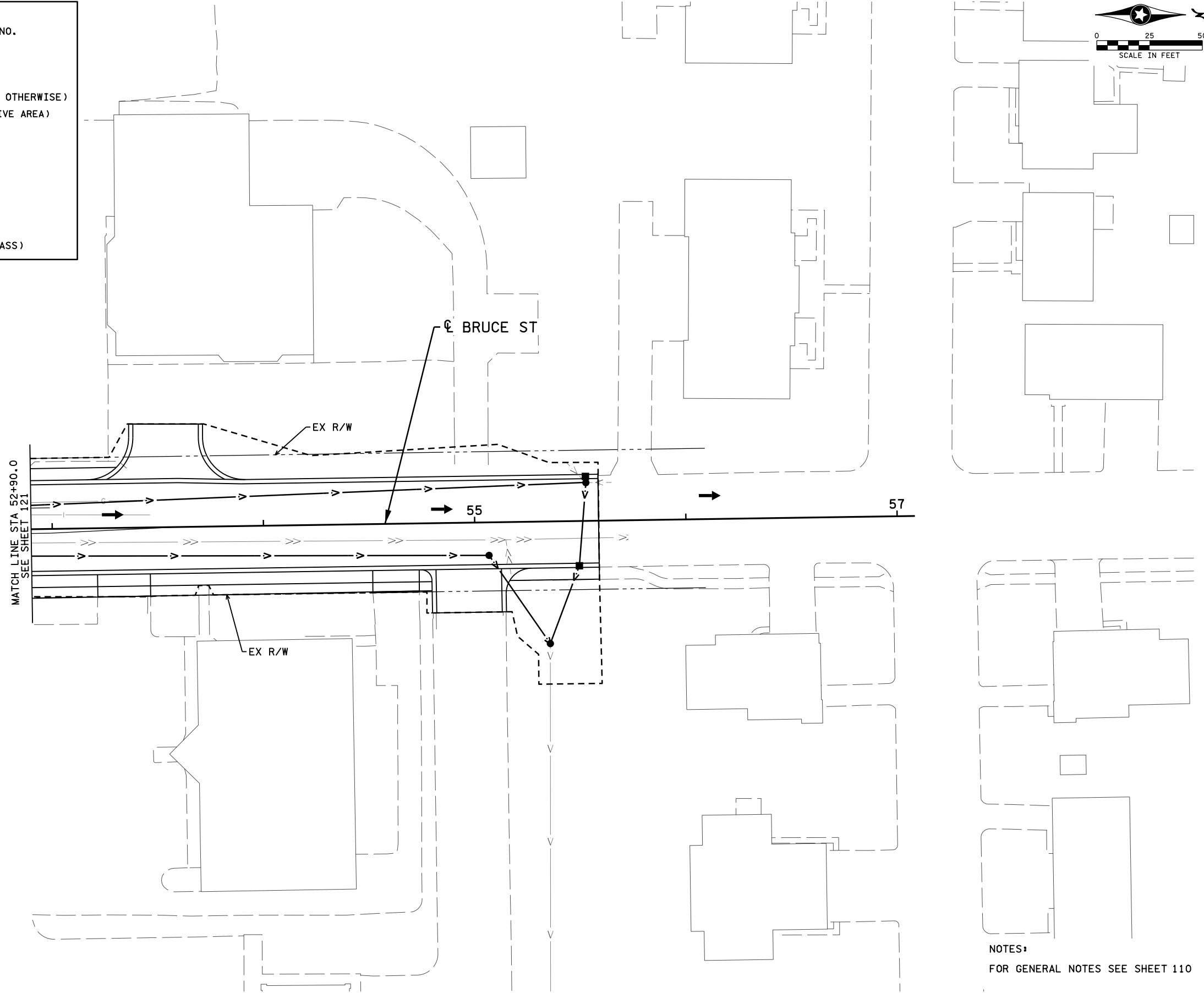
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SURFACE FLOW

RIPRAP (SEE TABULATIONS FOR CLASS)

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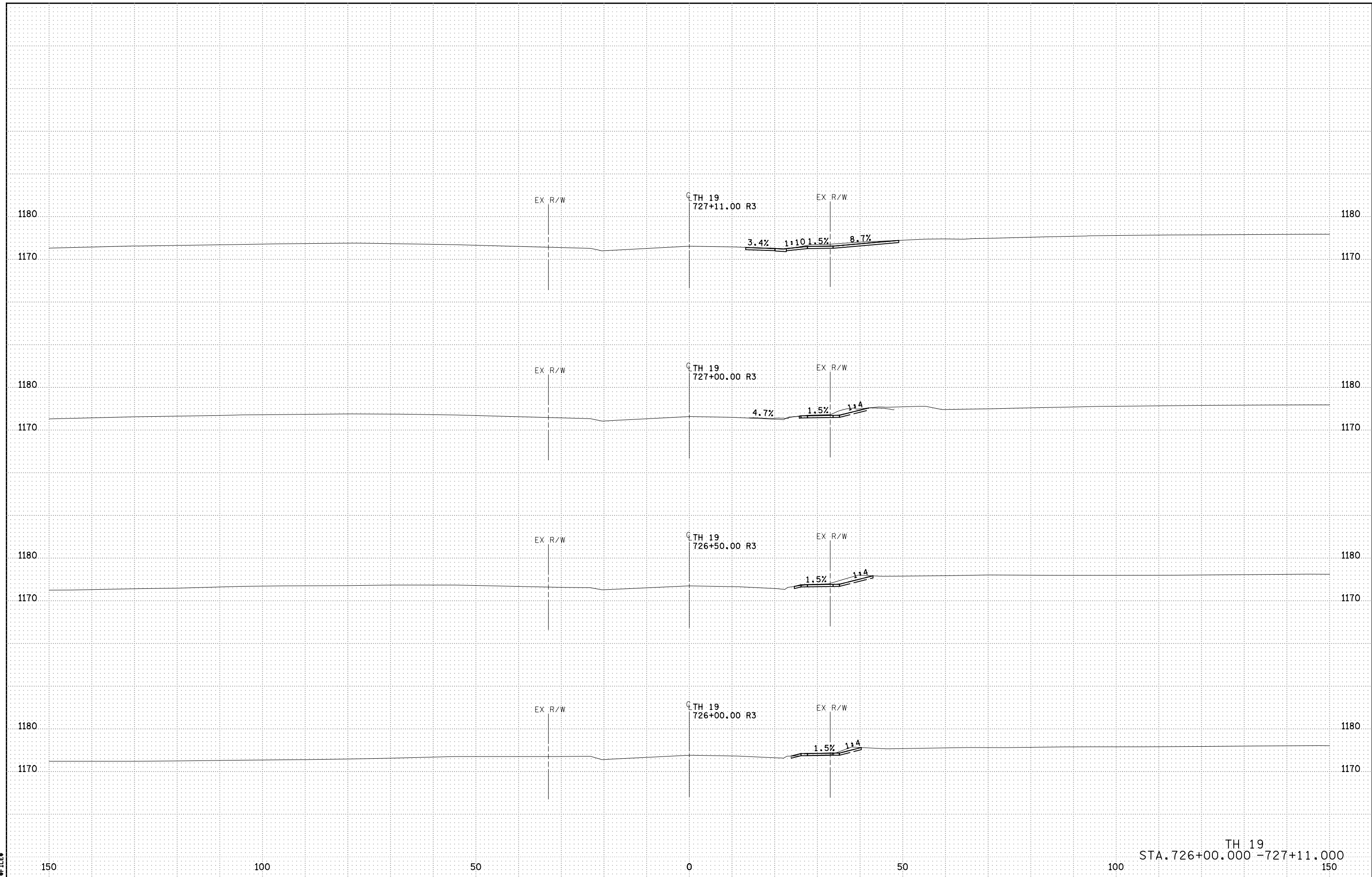
NOTES:
FOR GENERAL NOTES SEE SHEET 110

SHEET 13 OF 13 SHEETS

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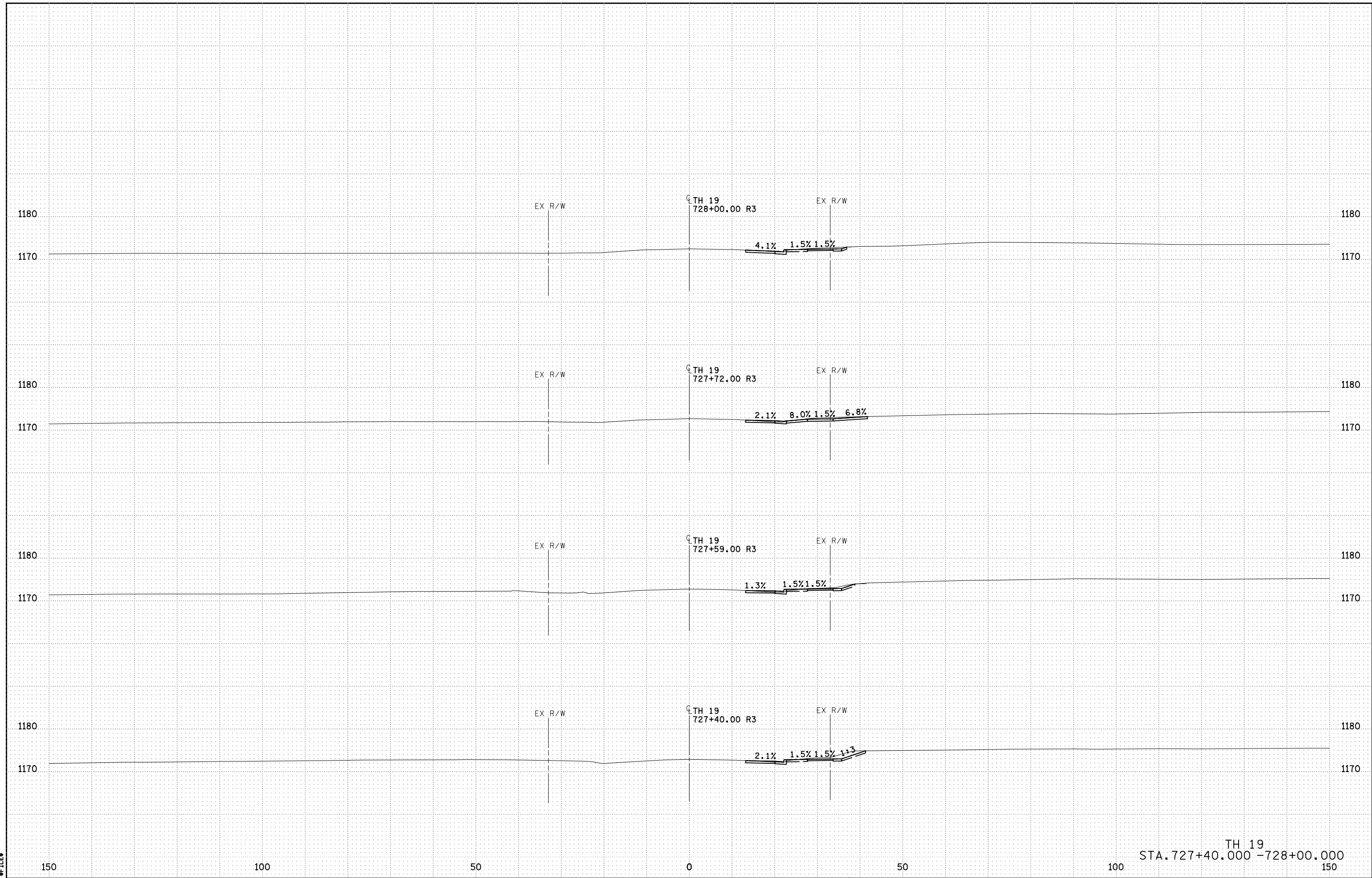
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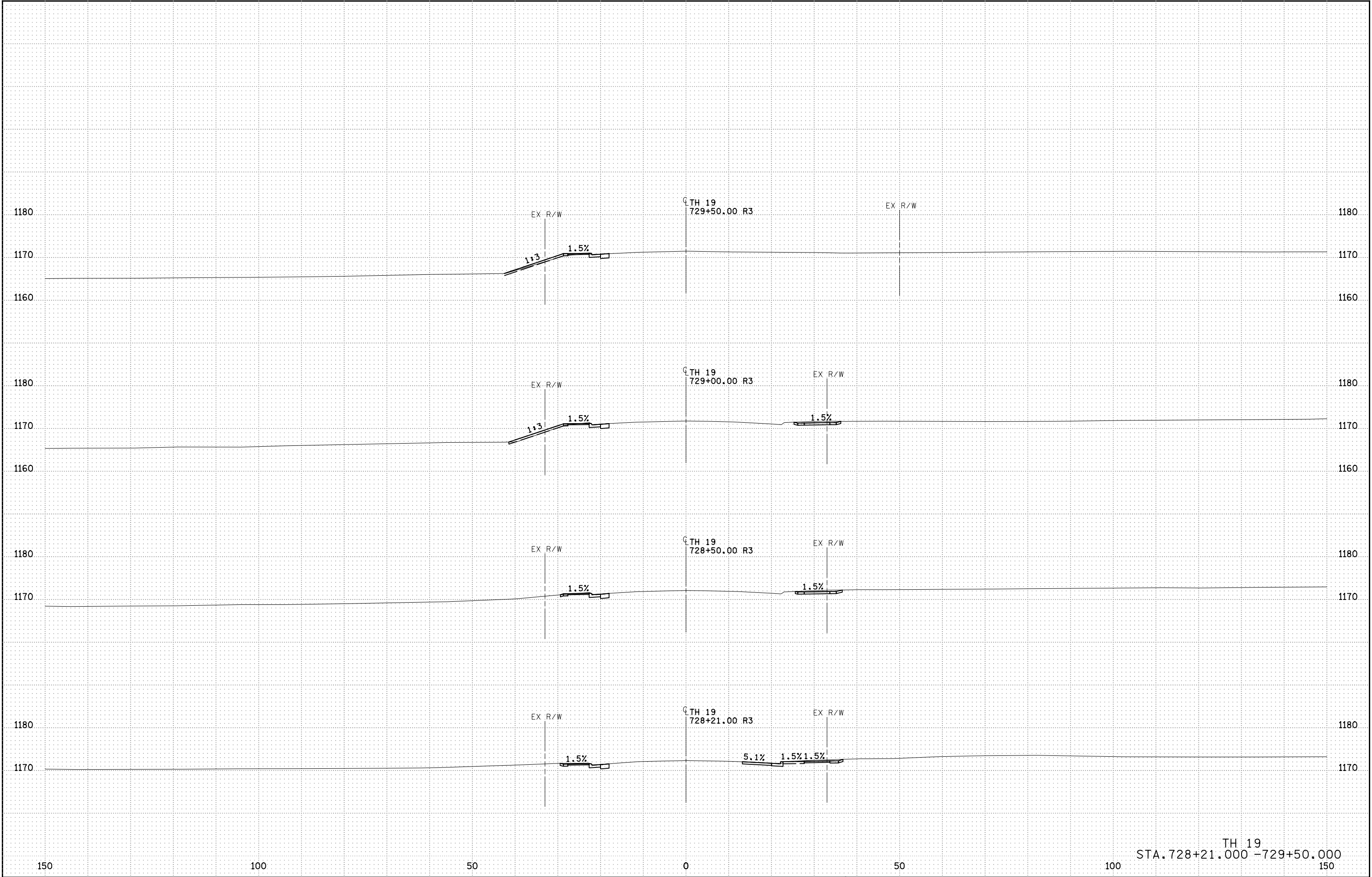
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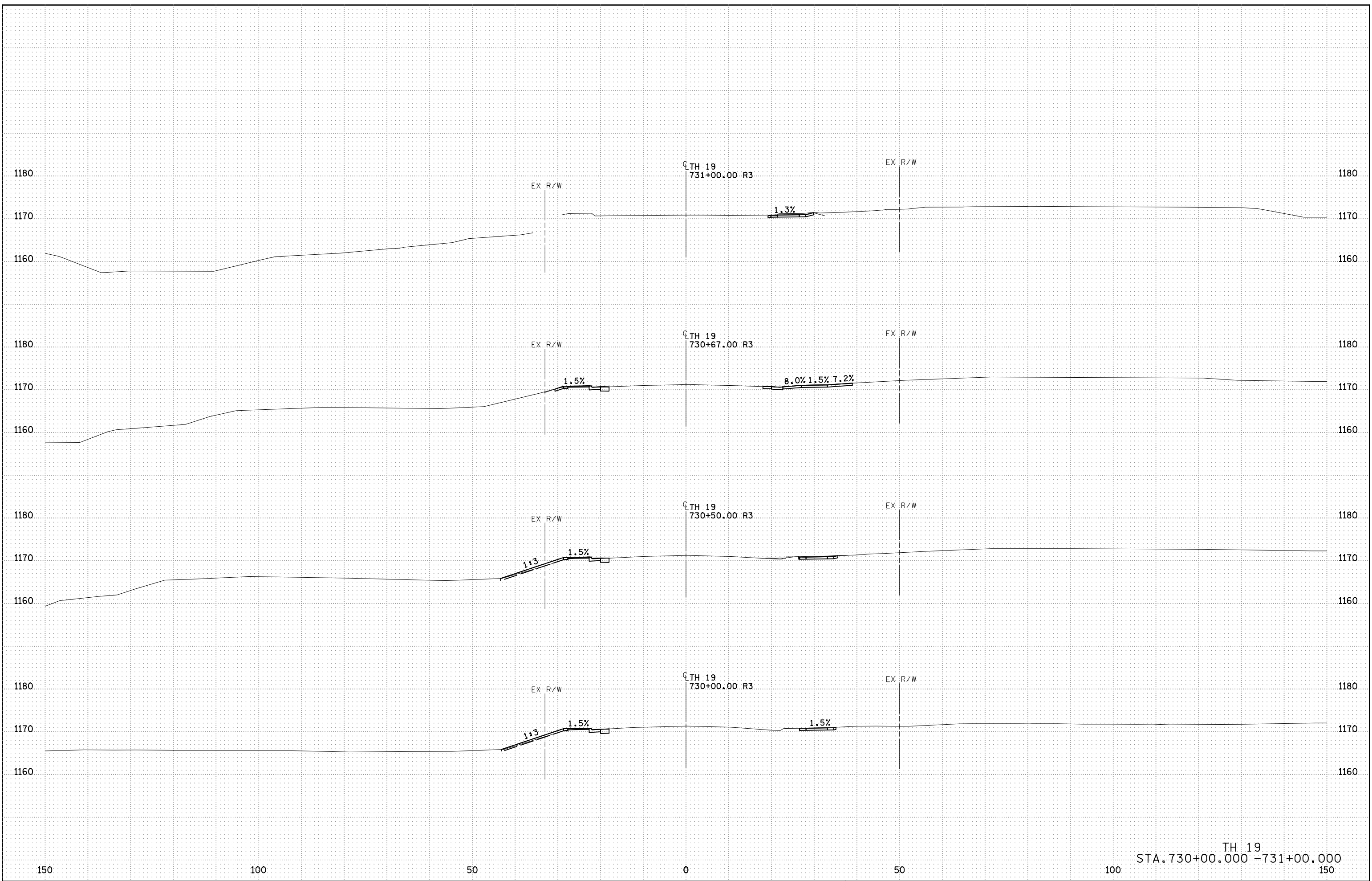


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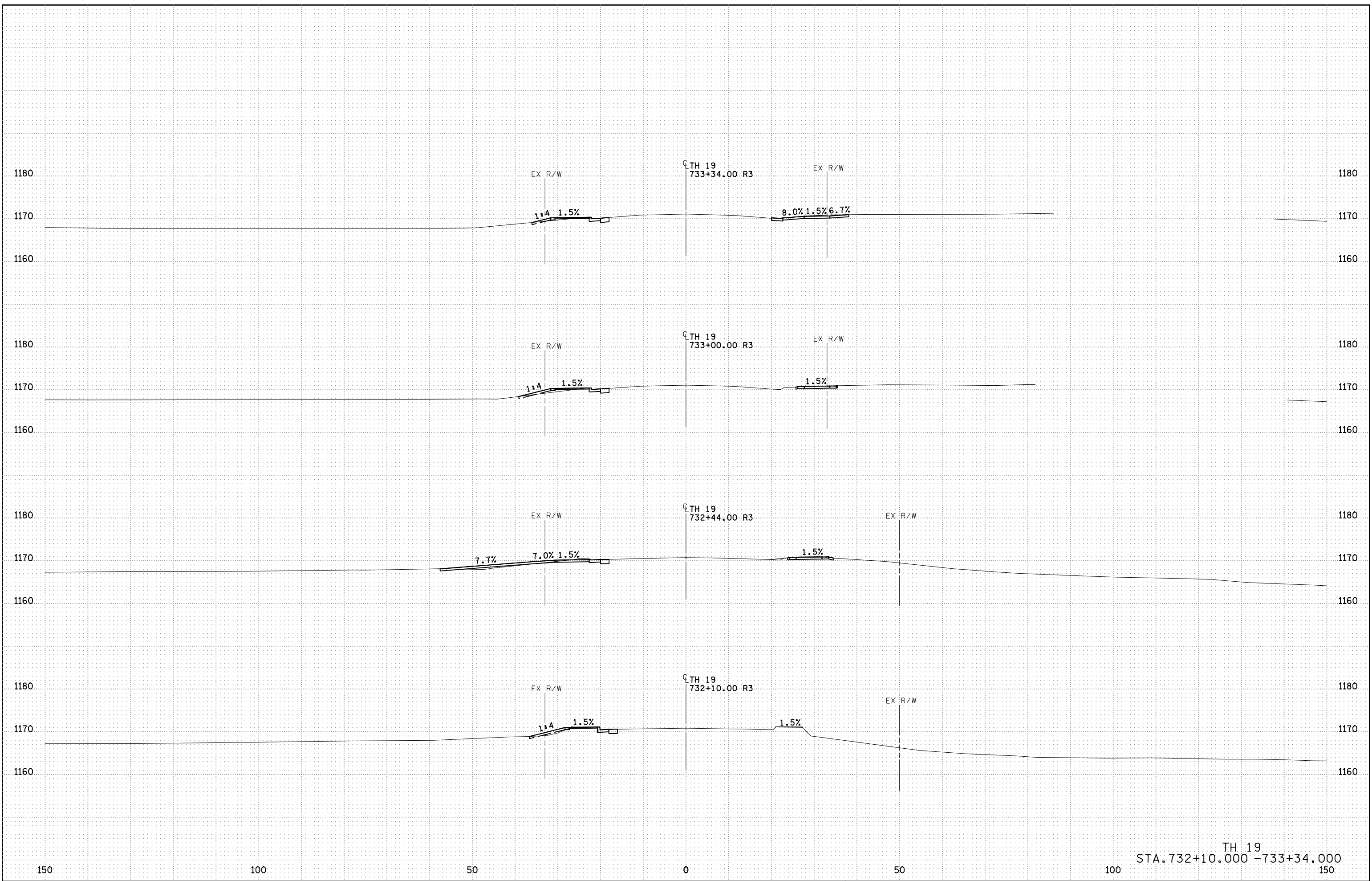
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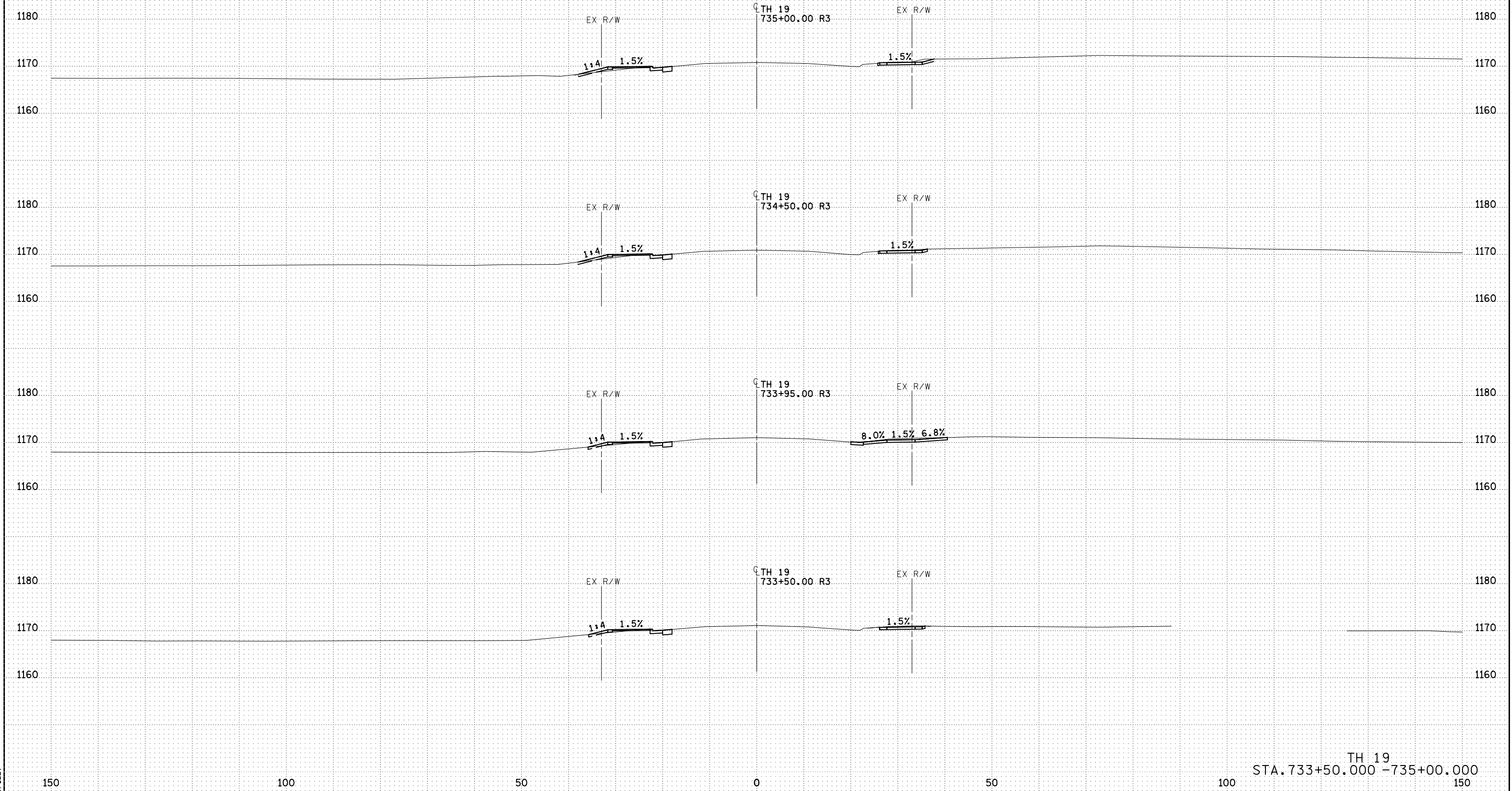
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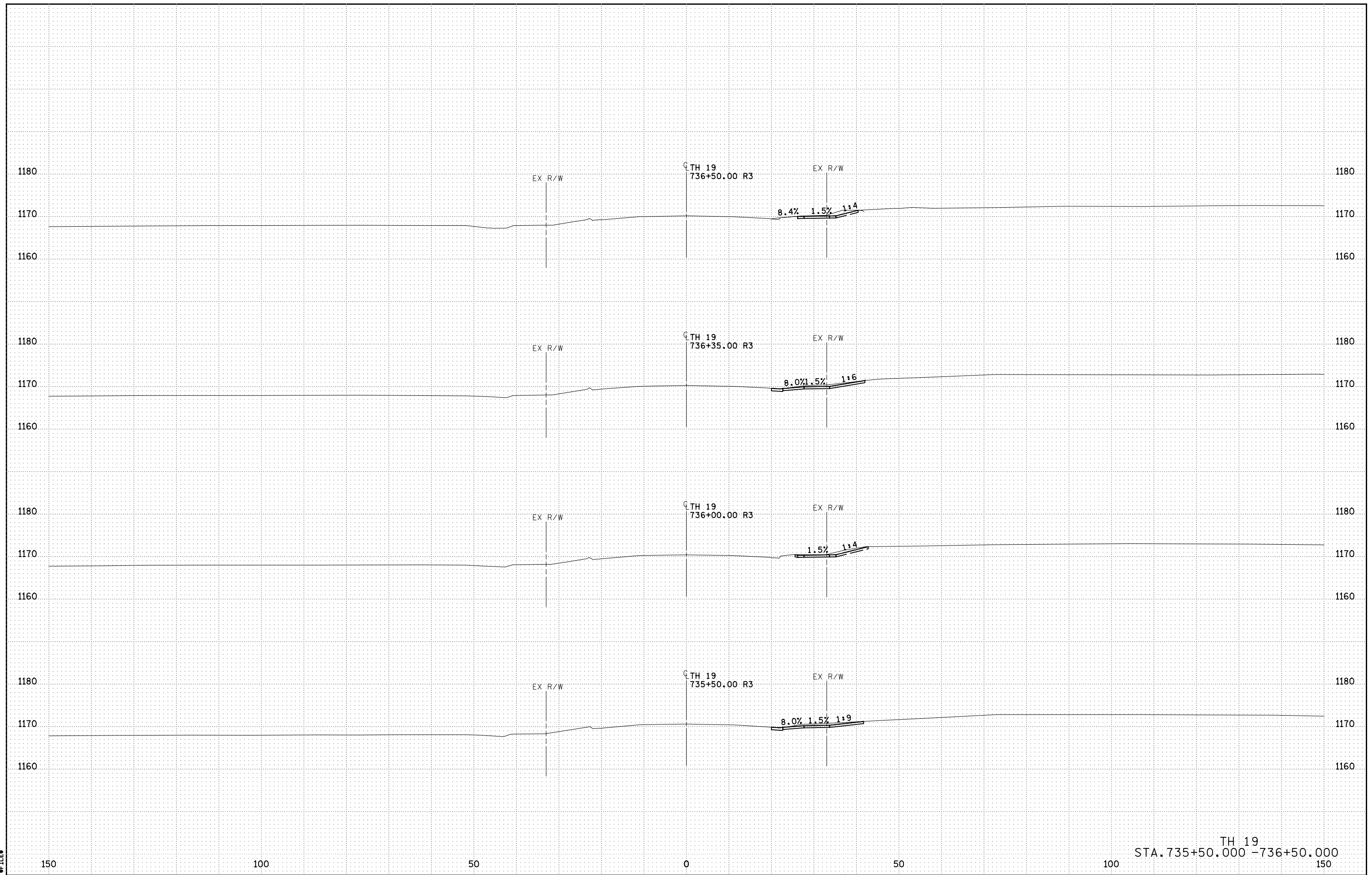
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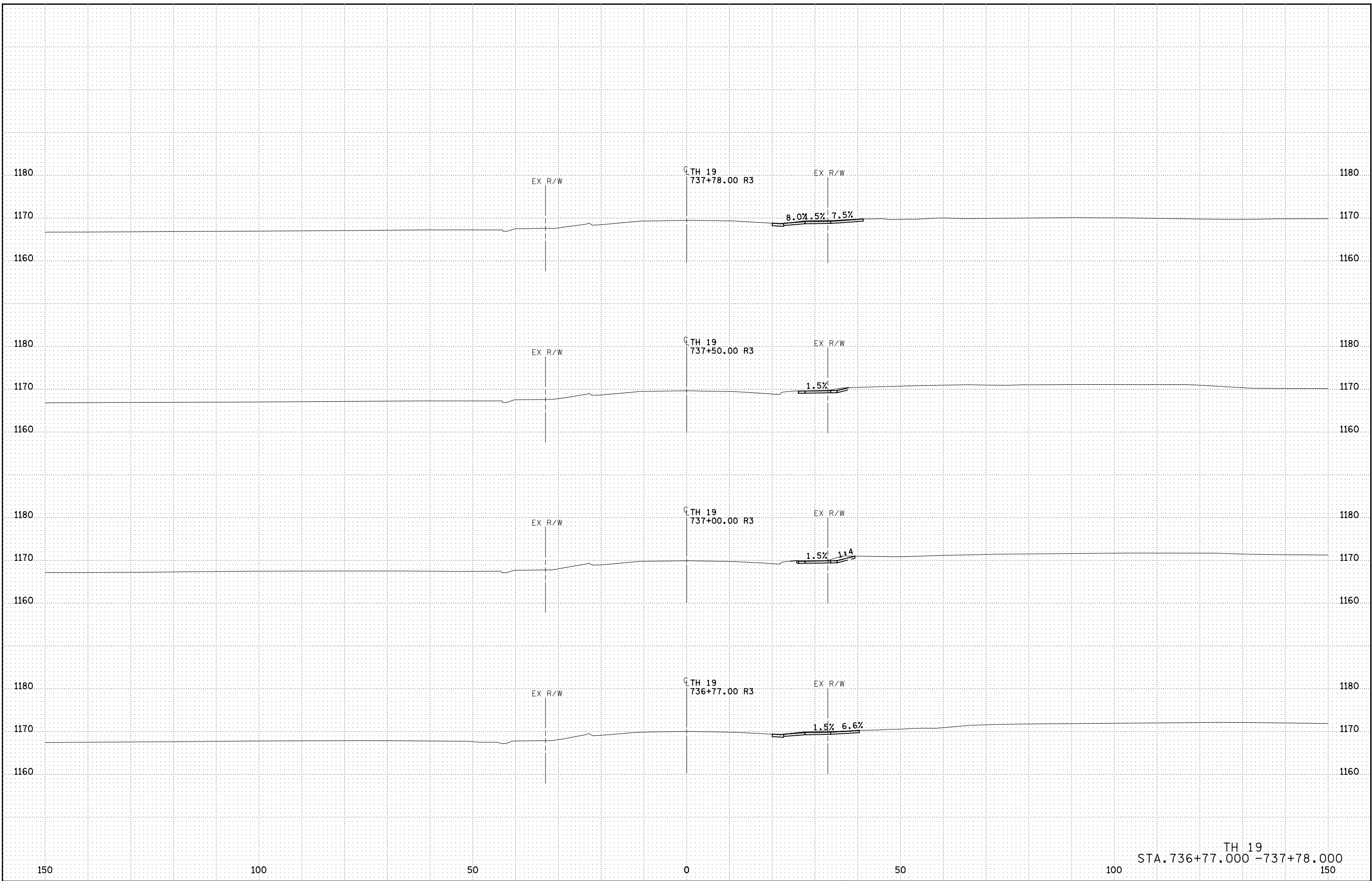
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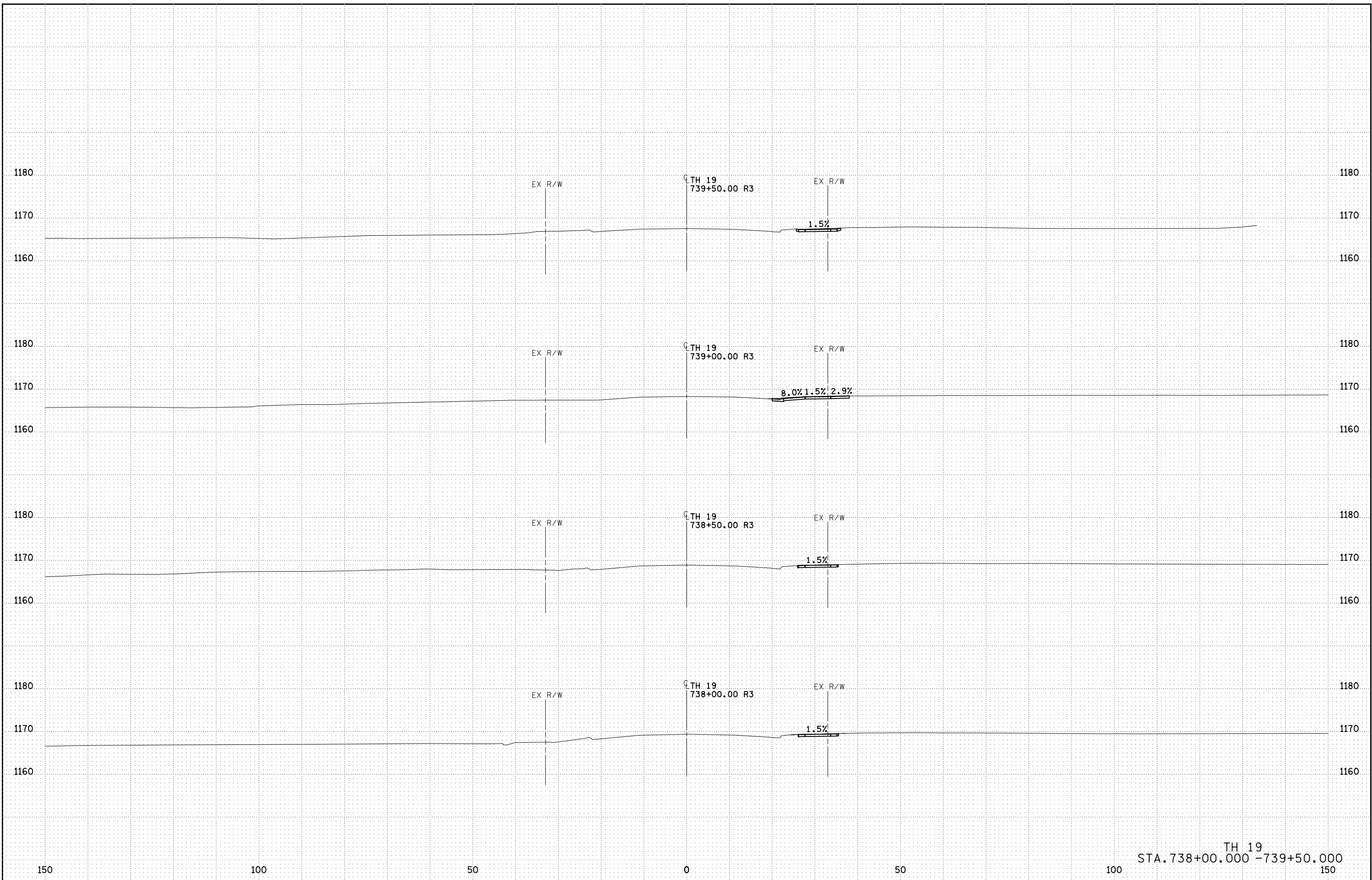
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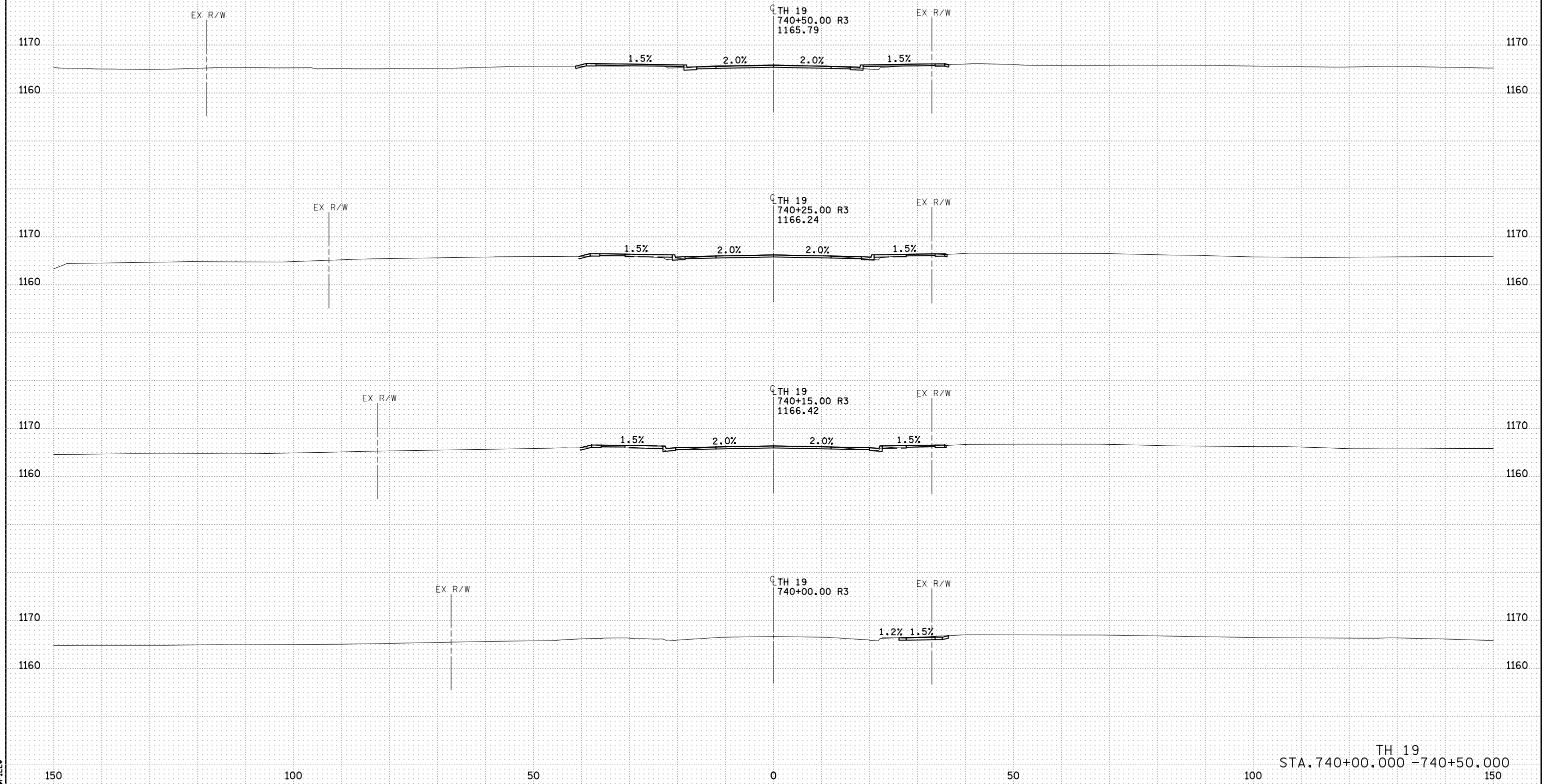
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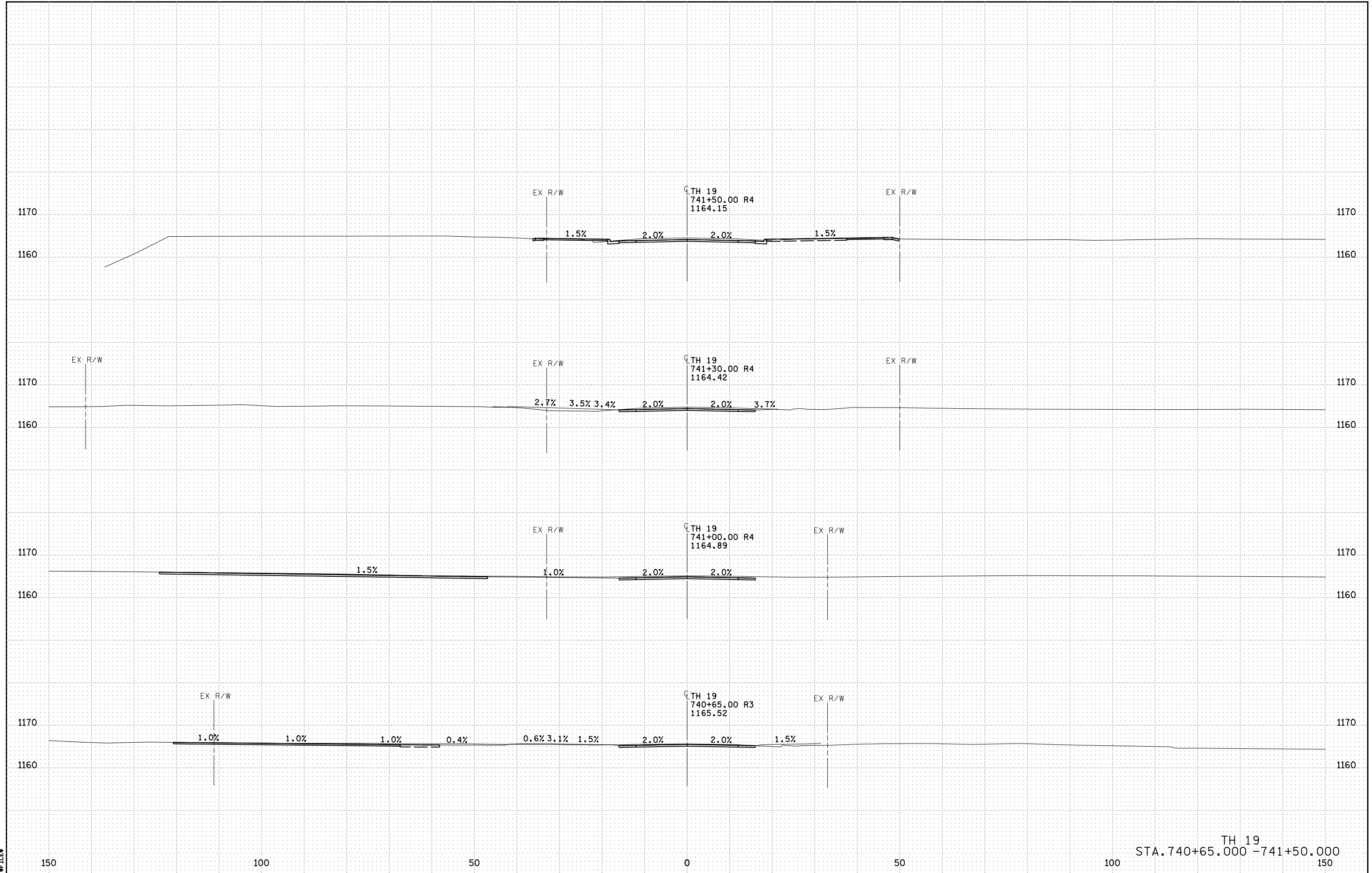
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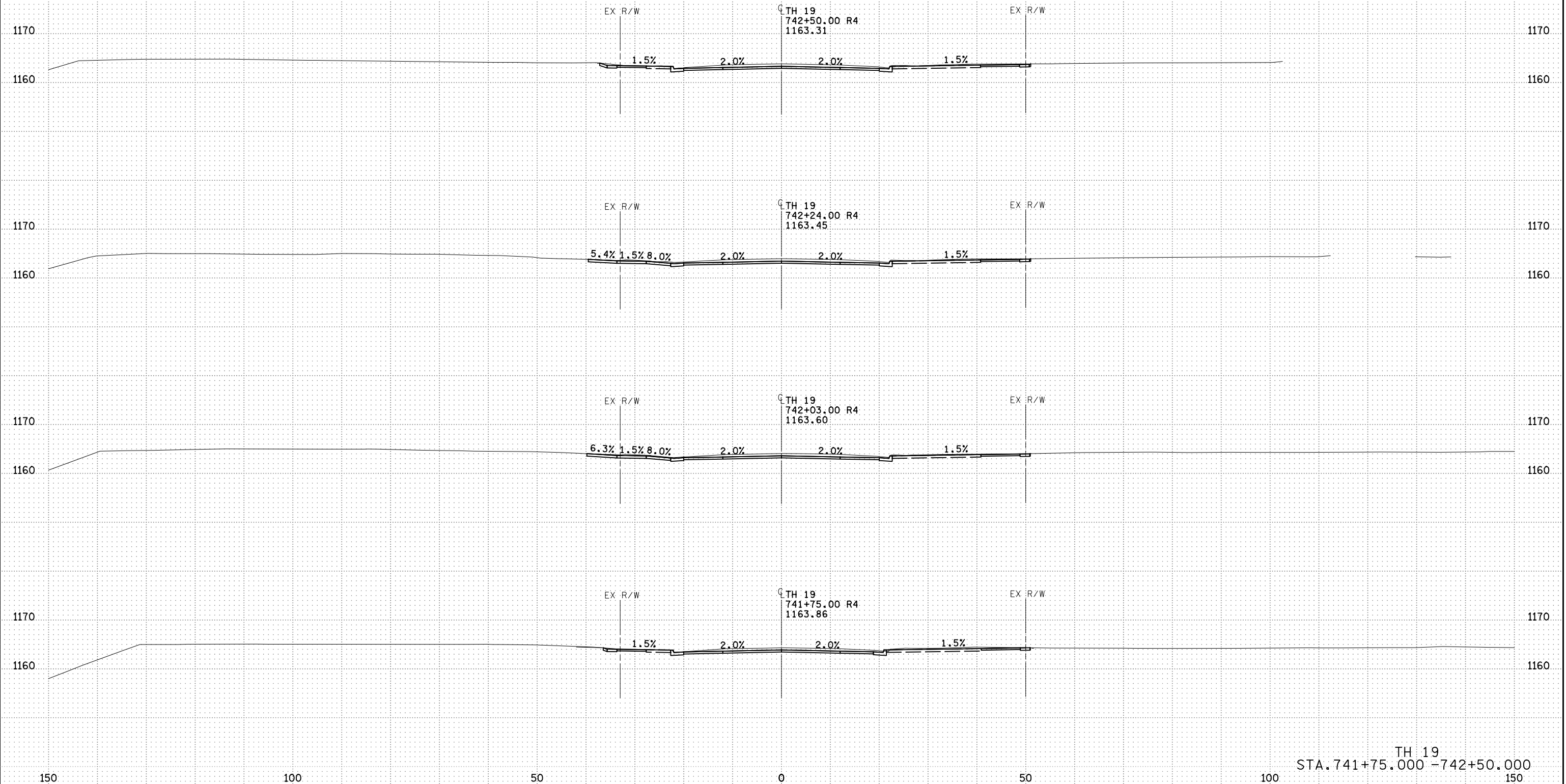
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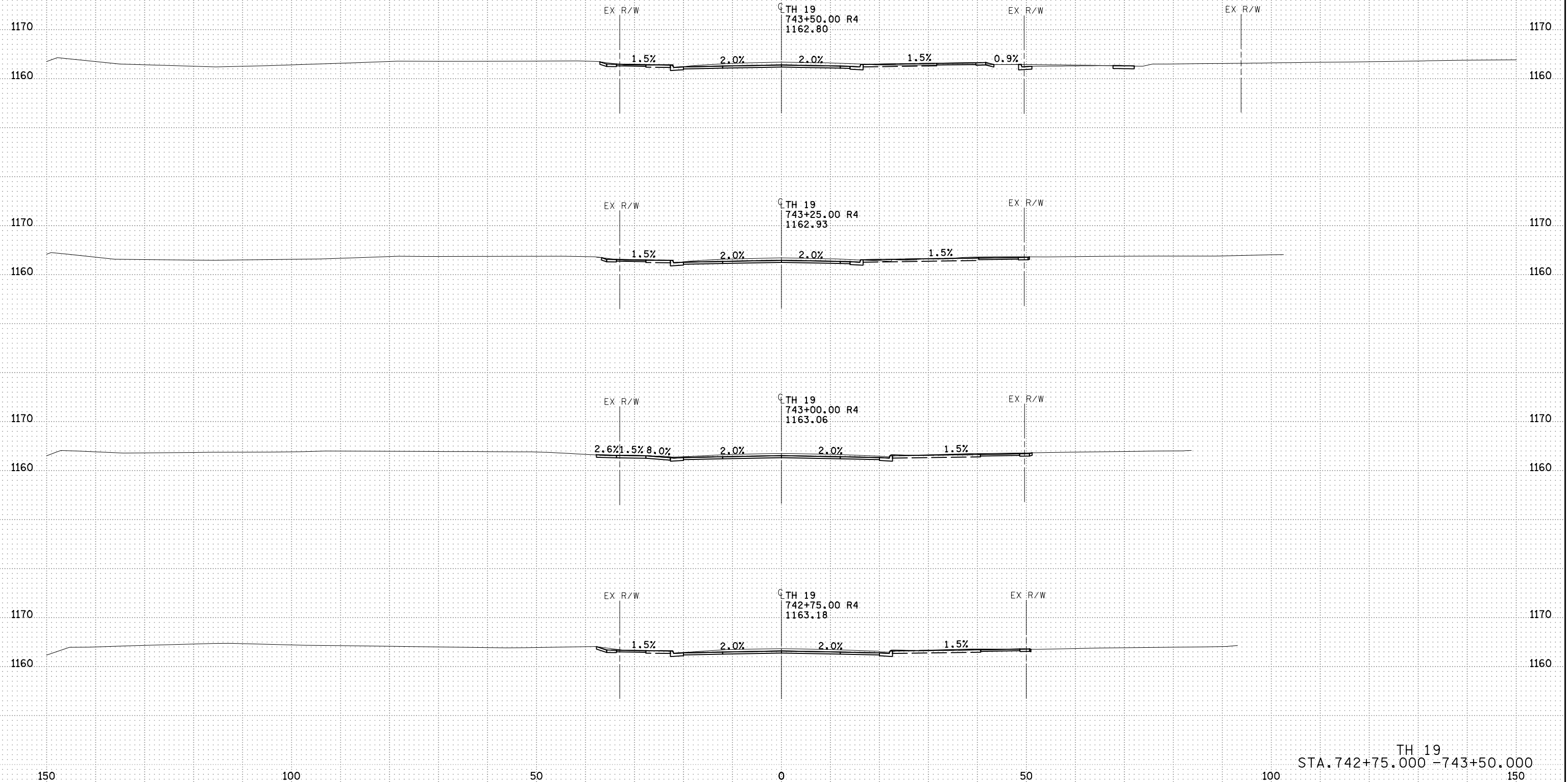
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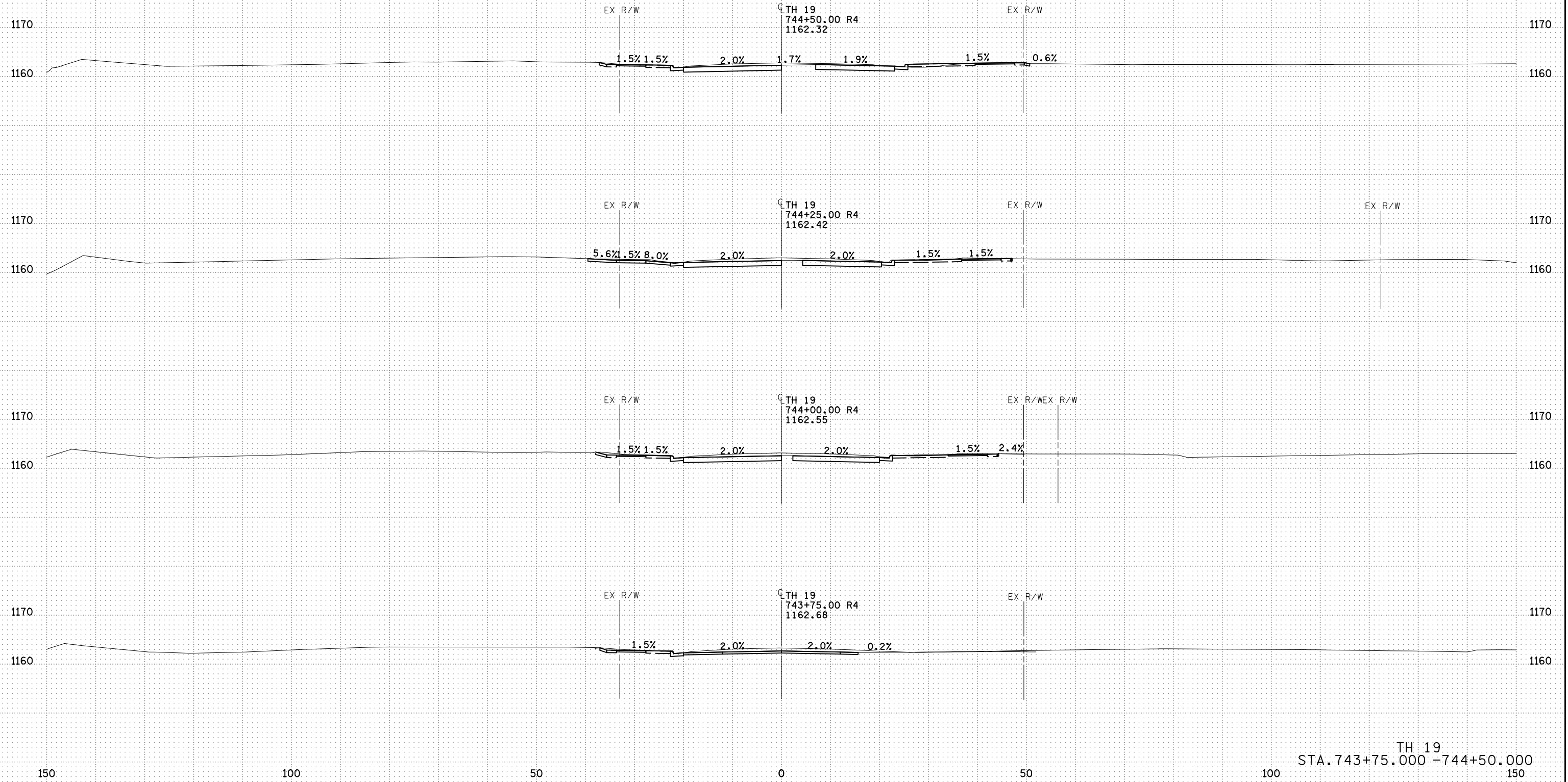
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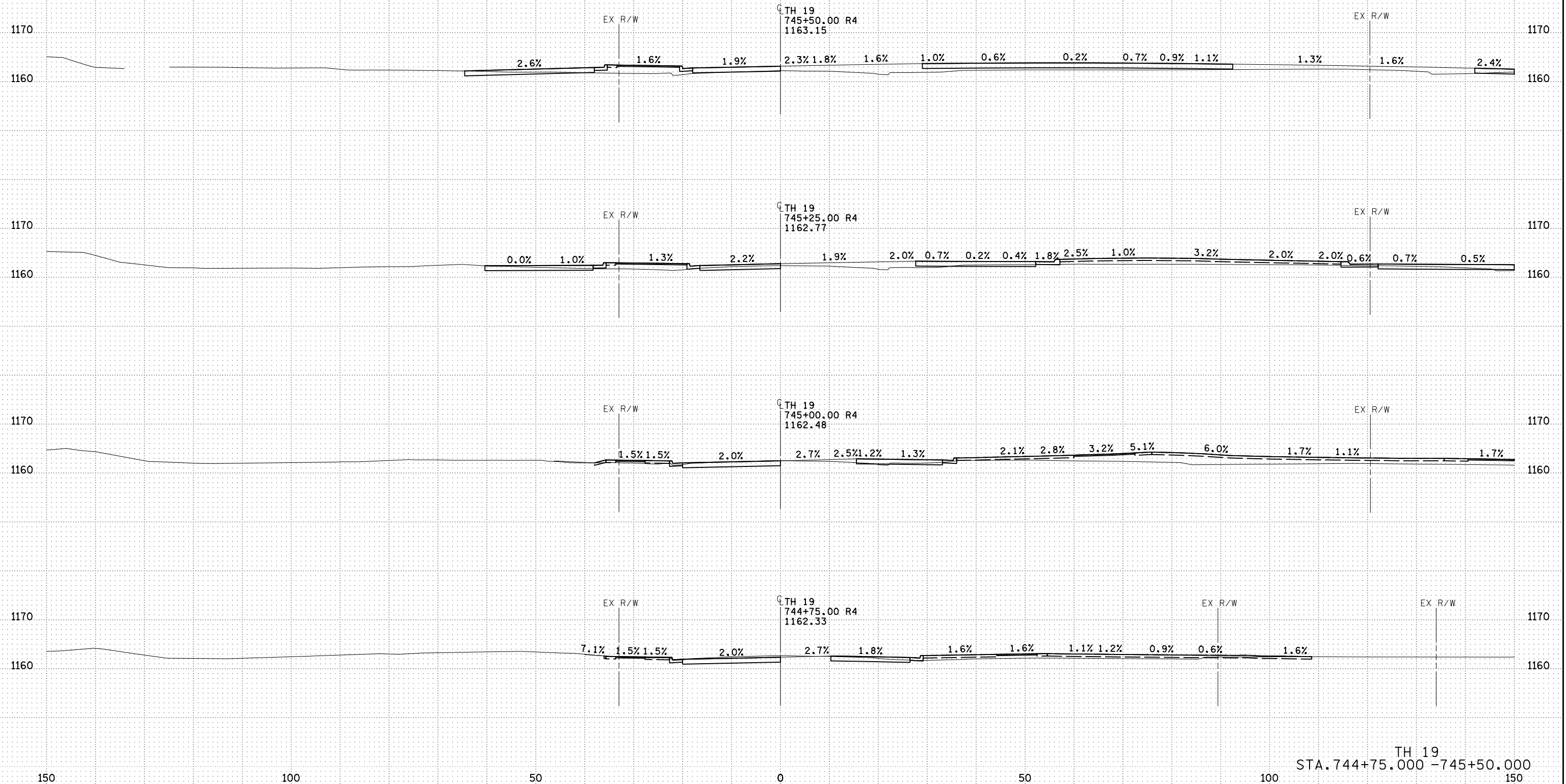
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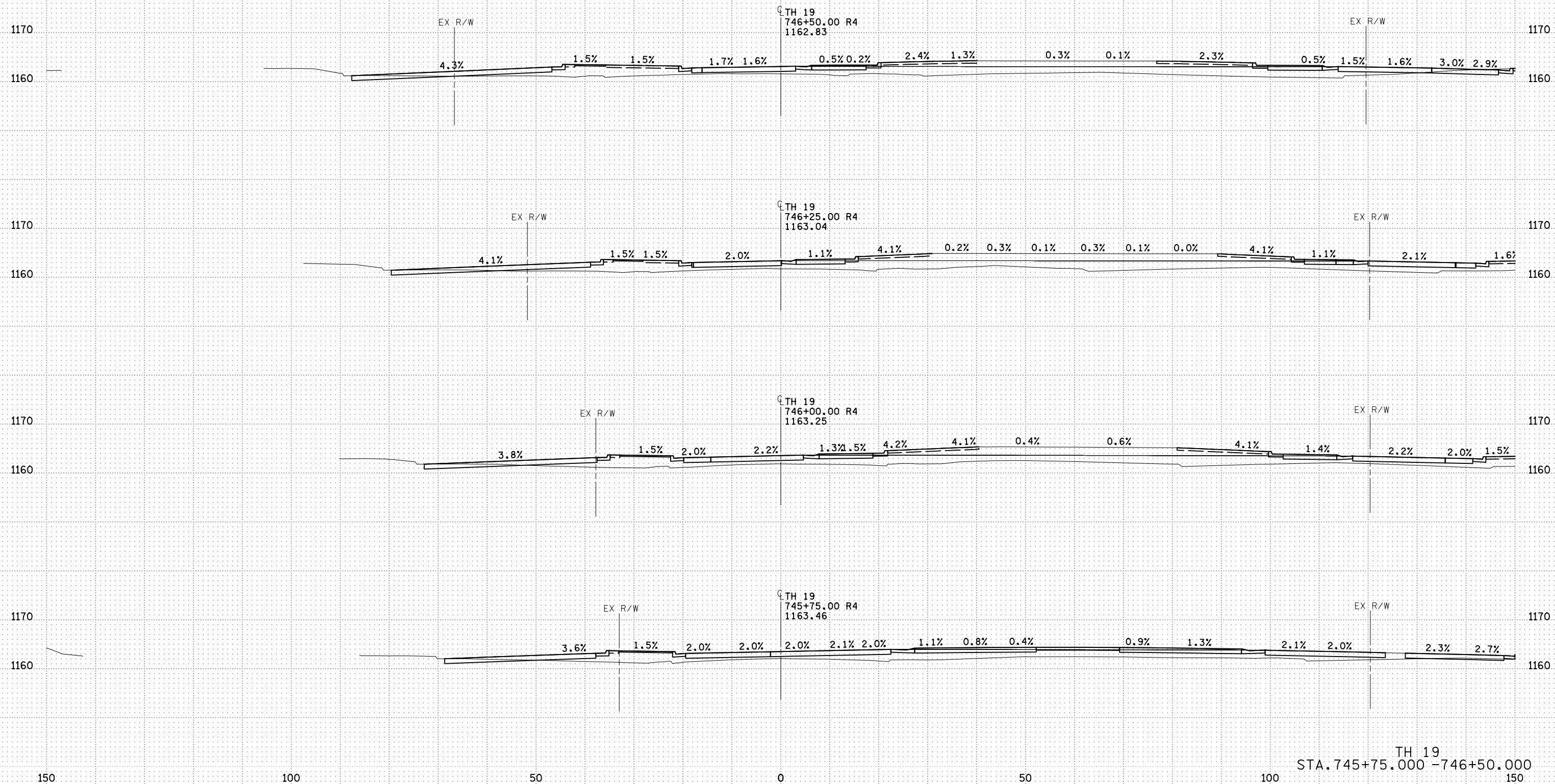
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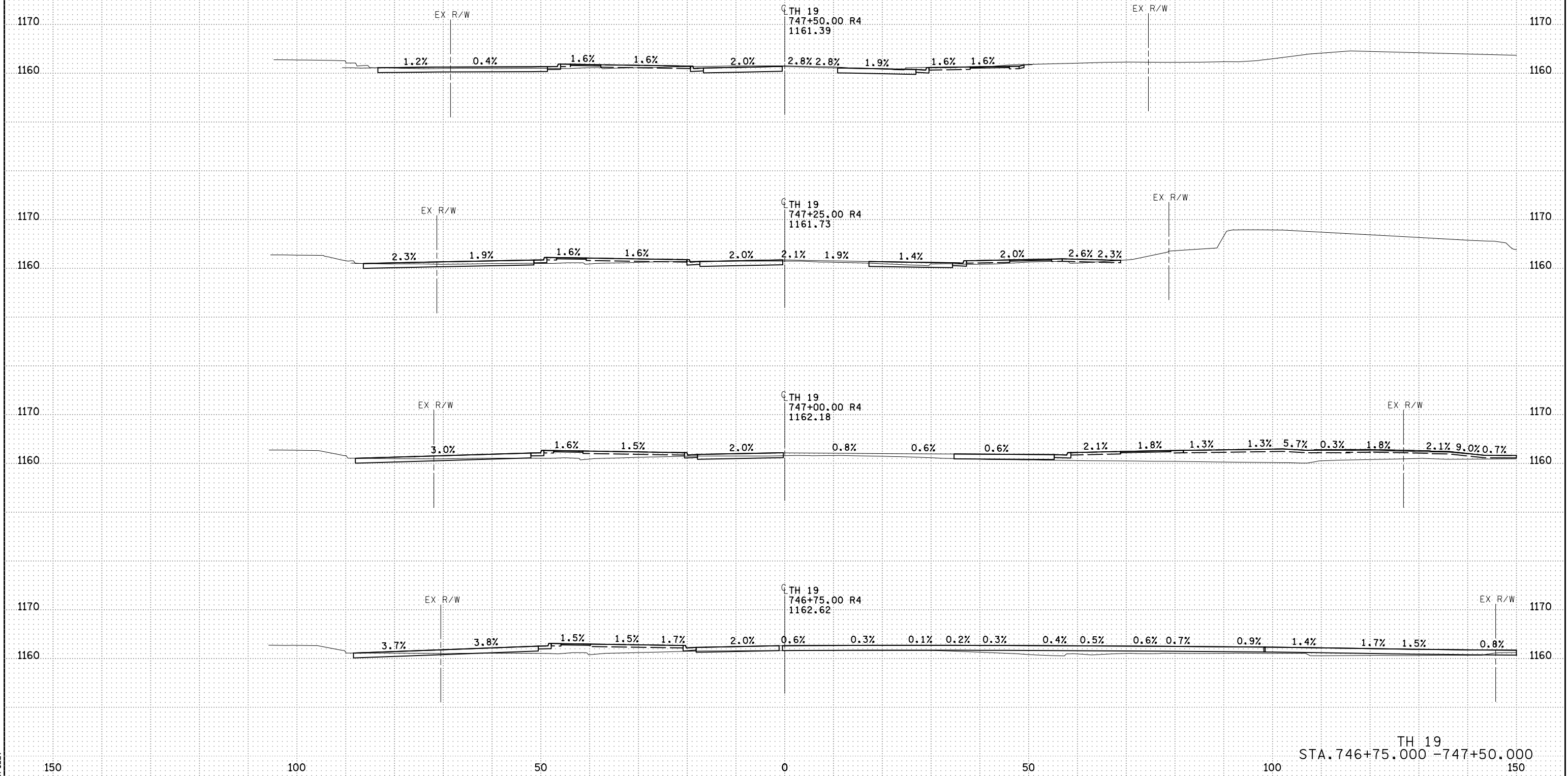
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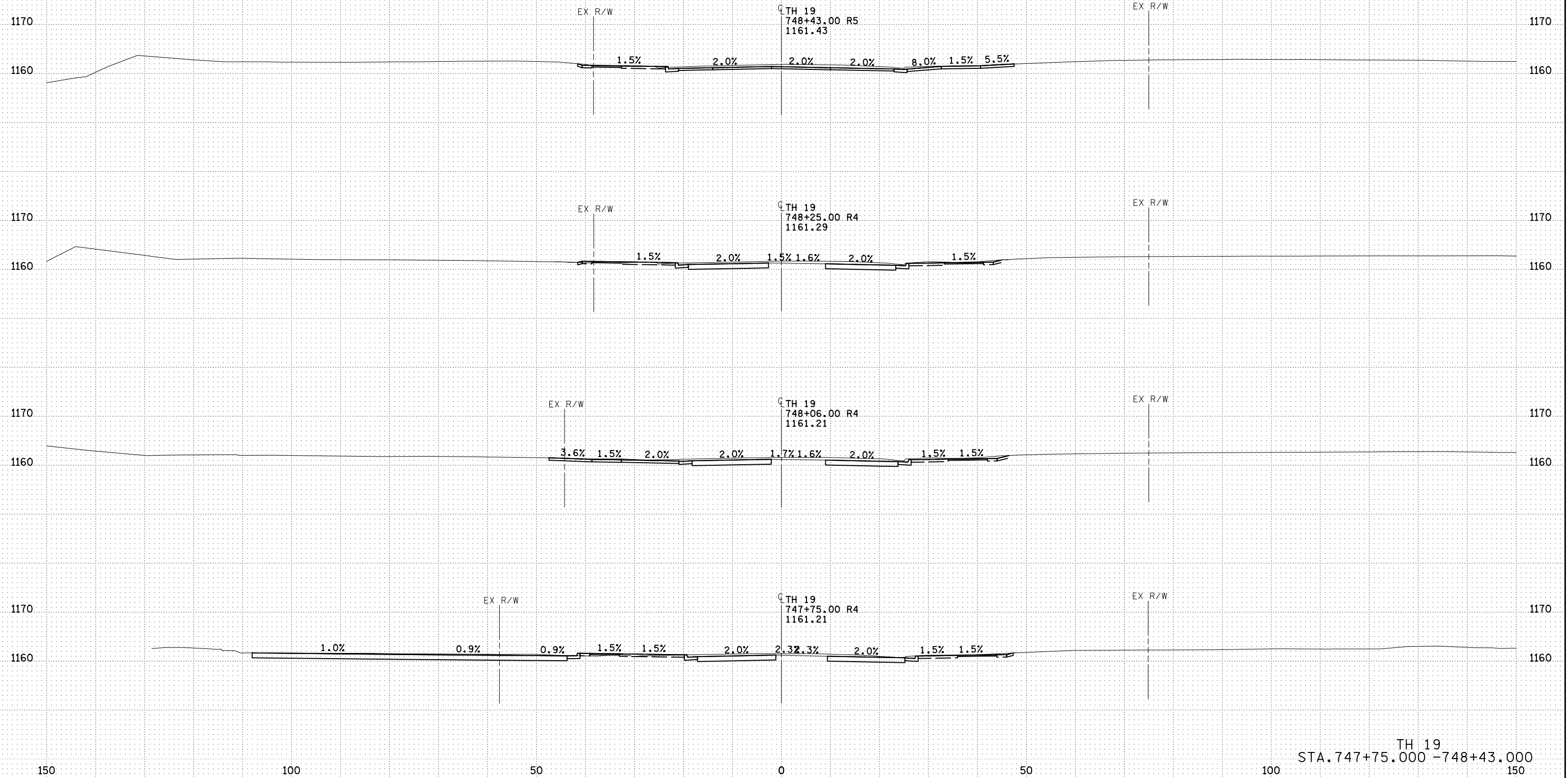
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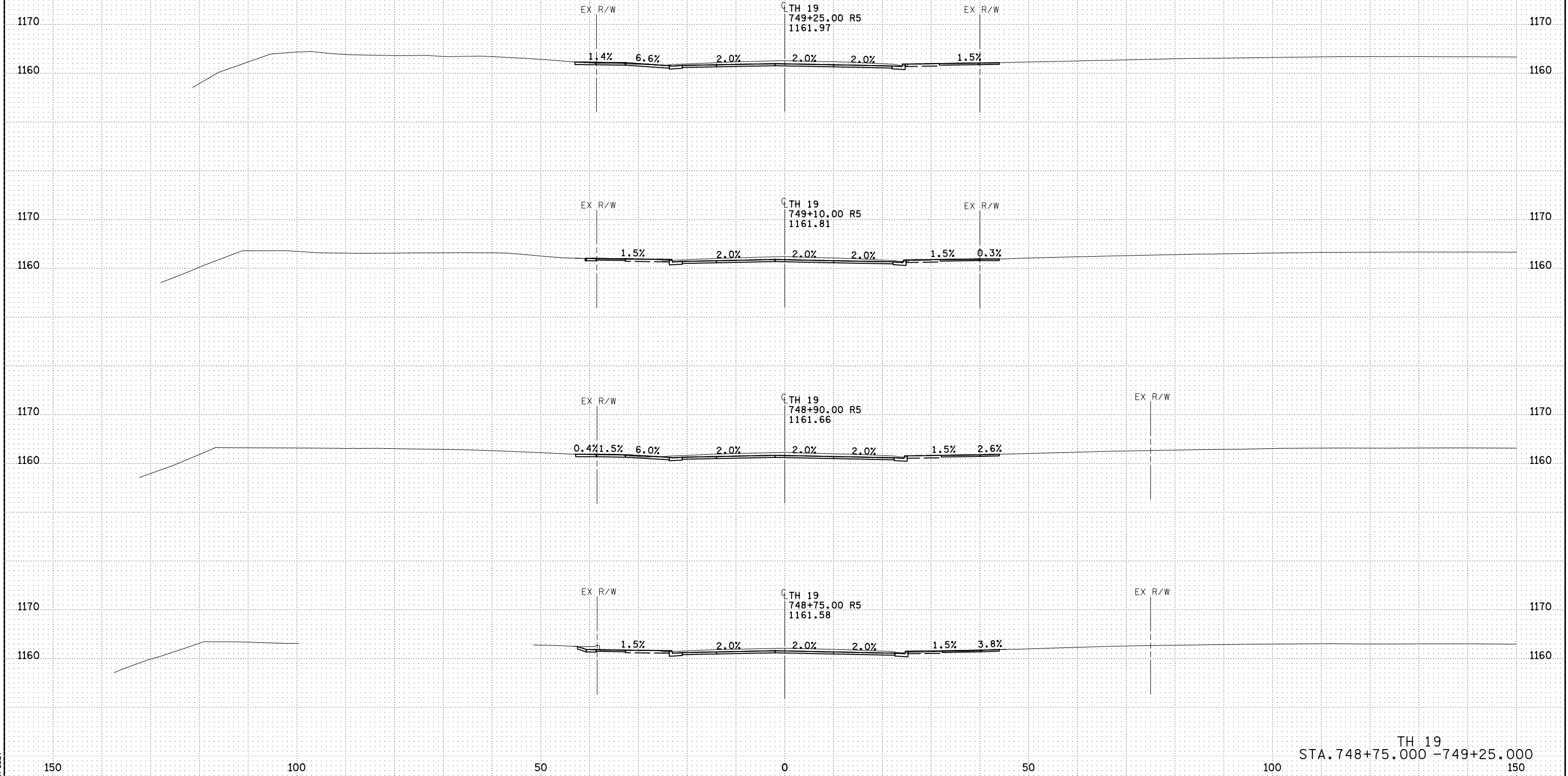
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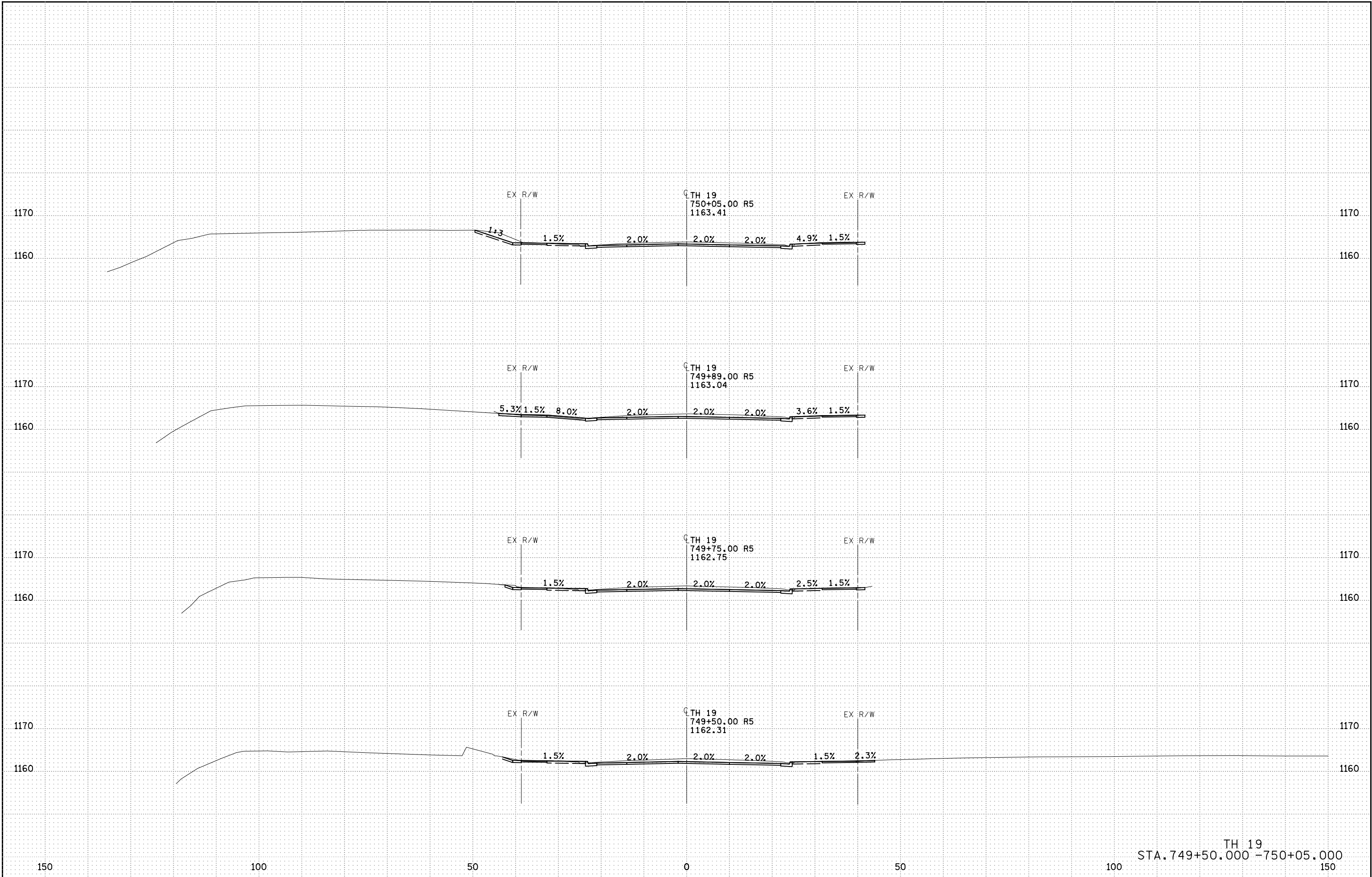
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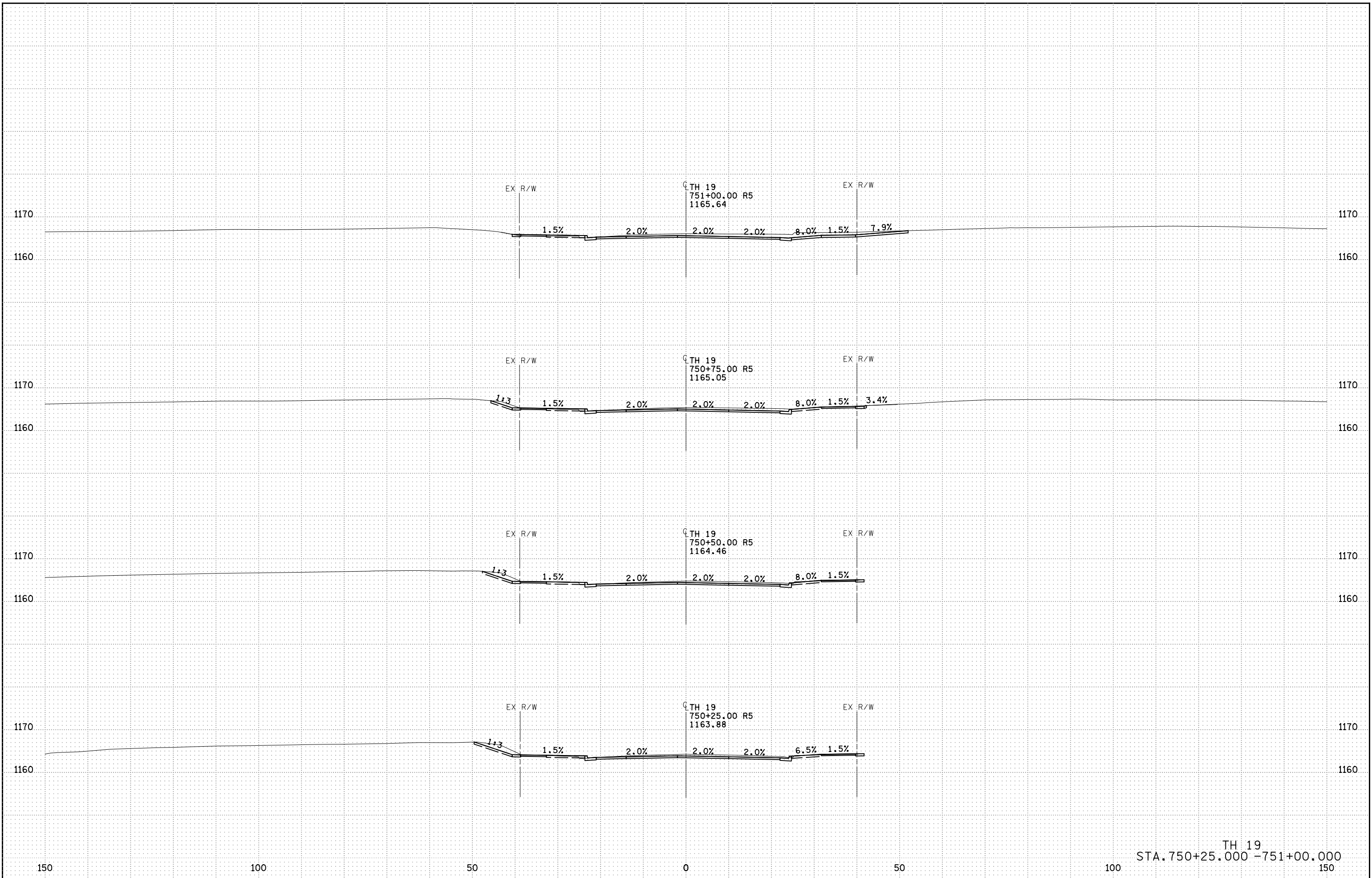
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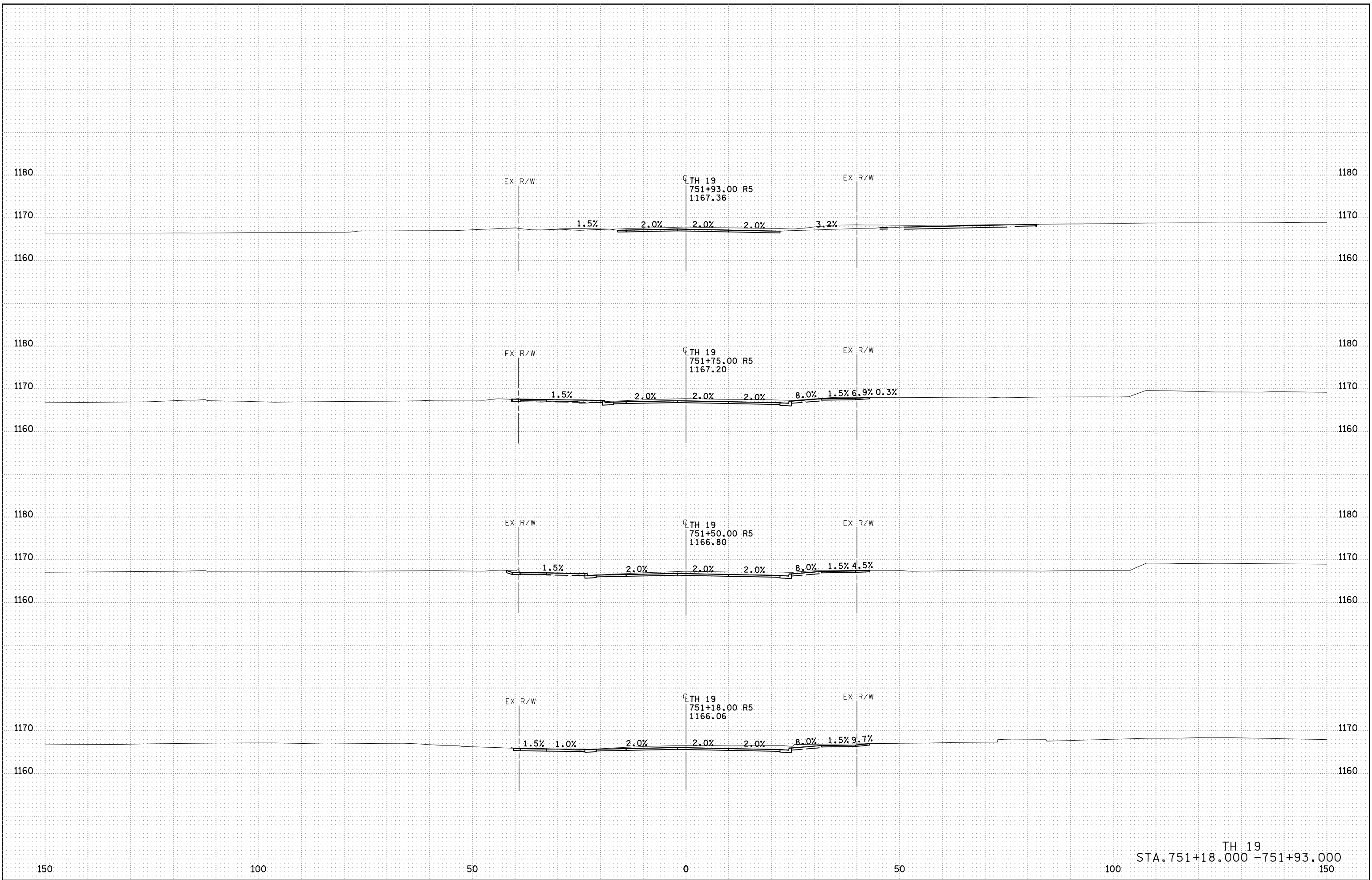
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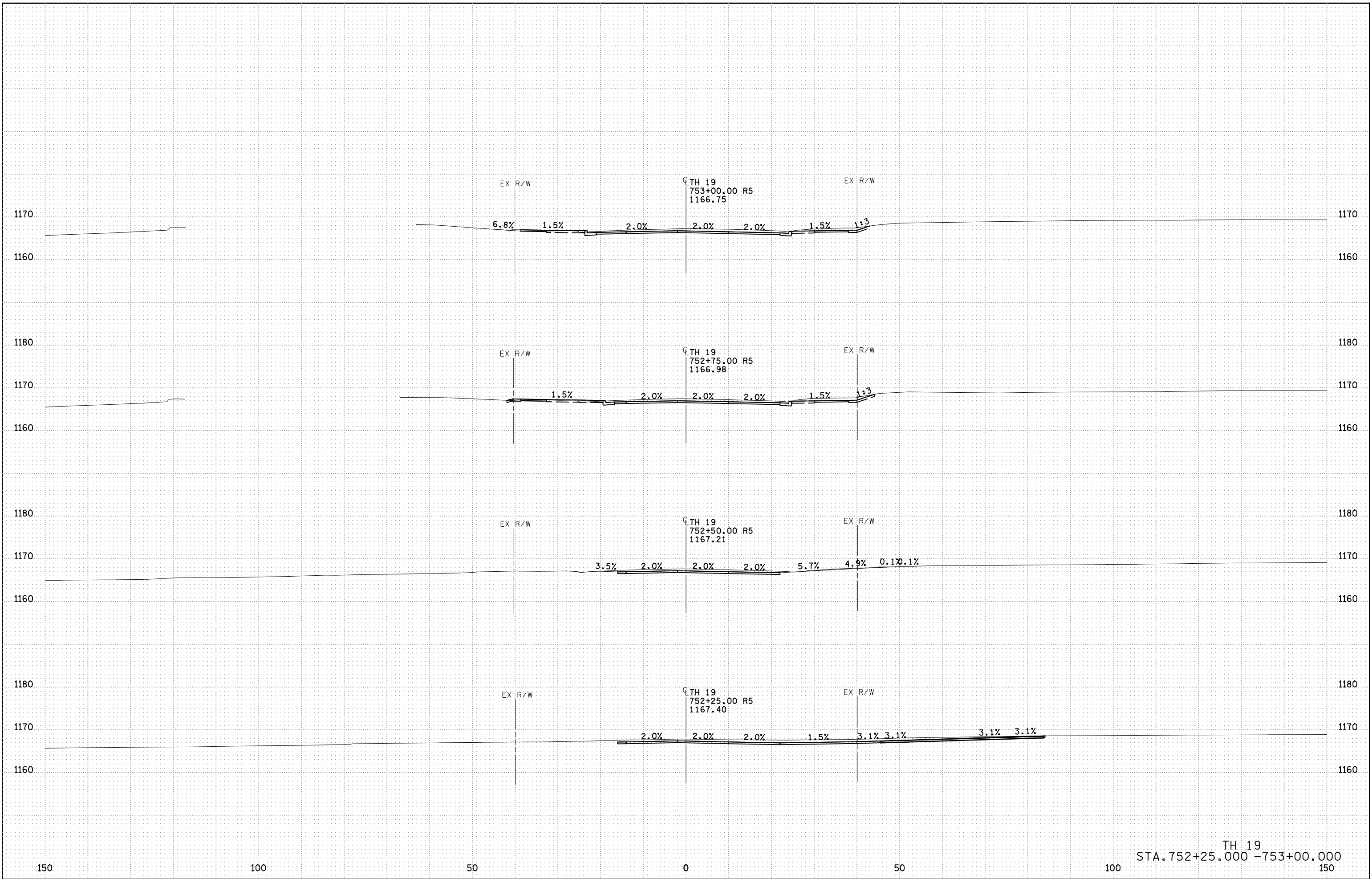
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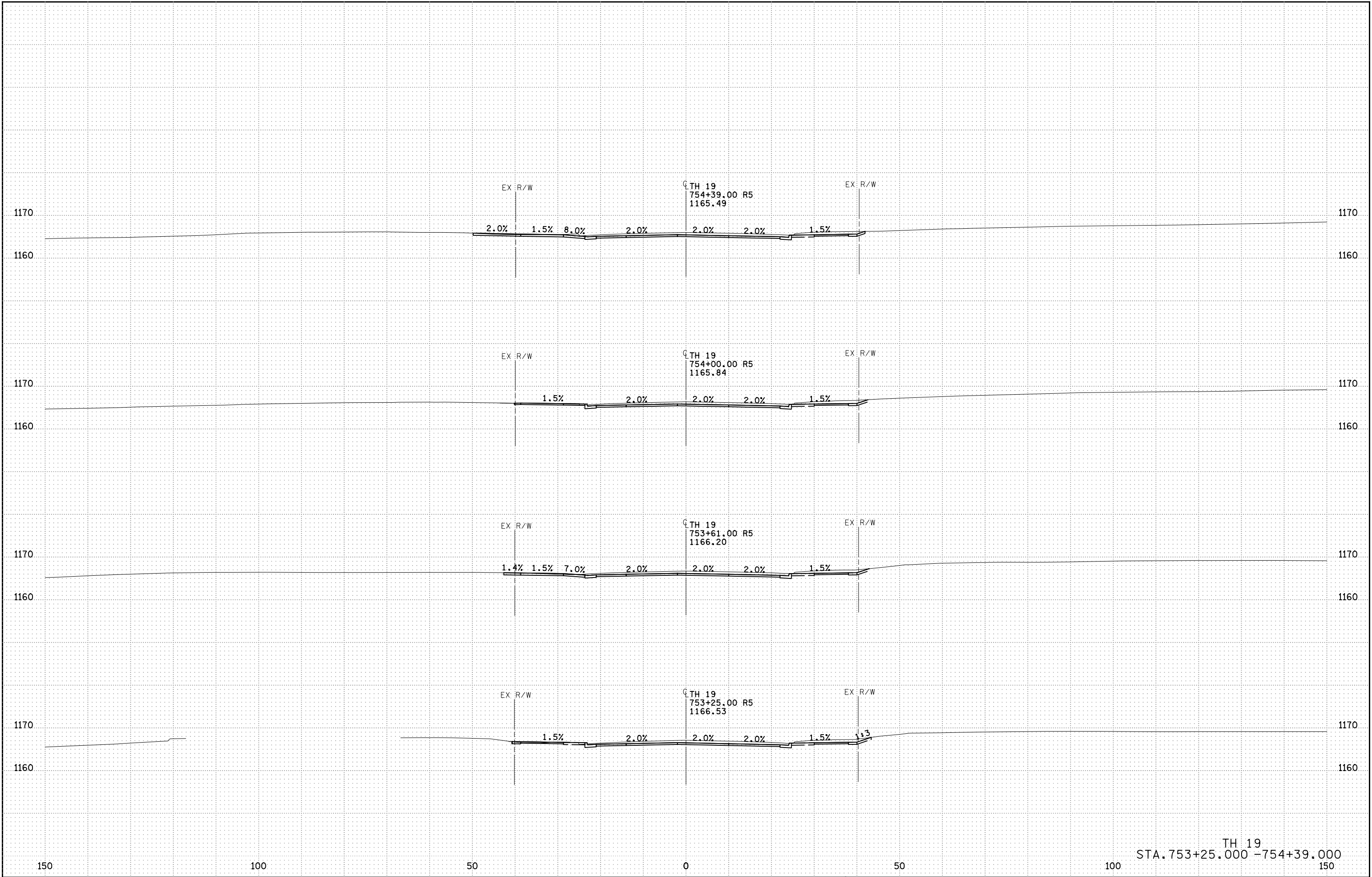
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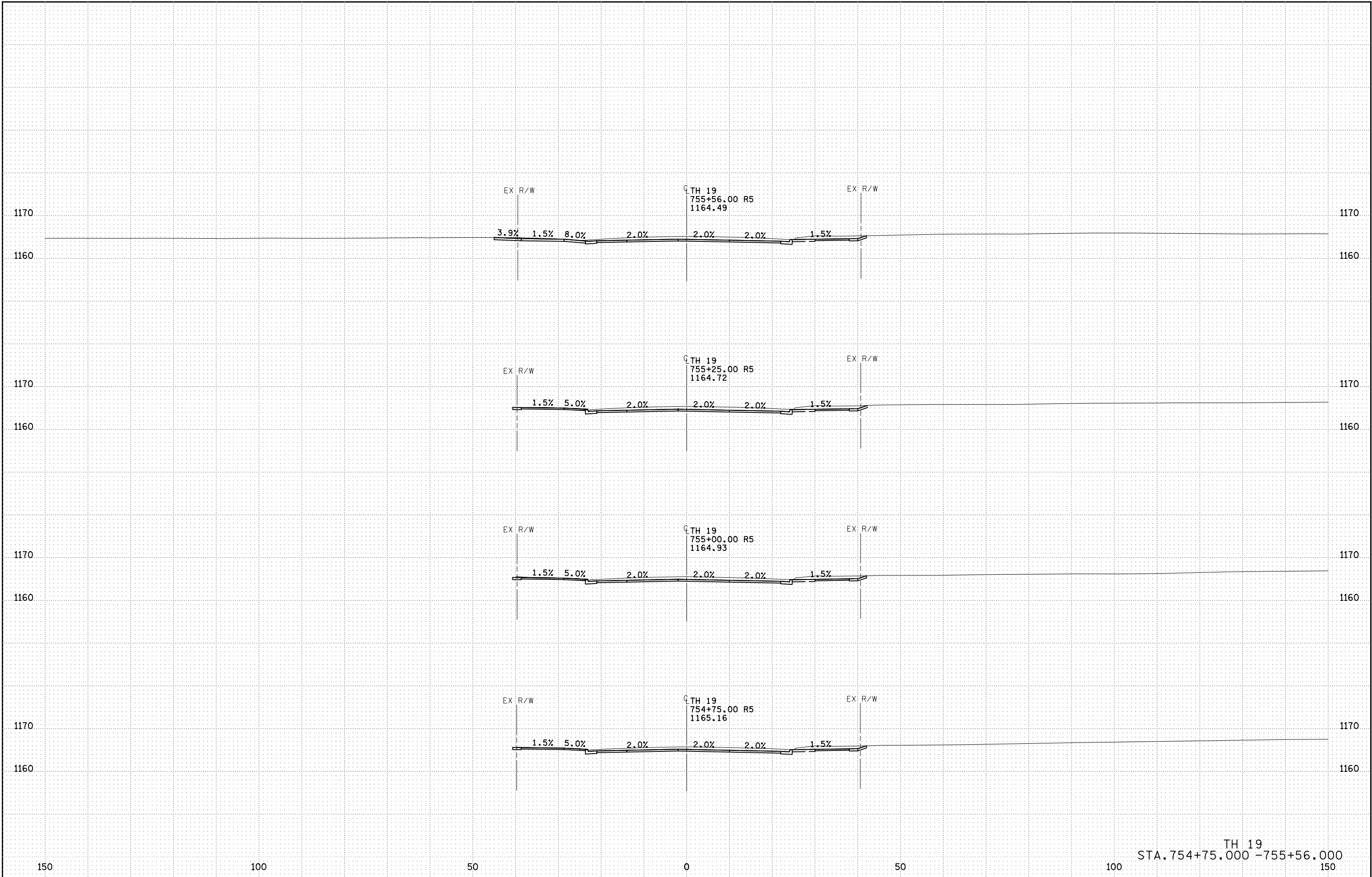
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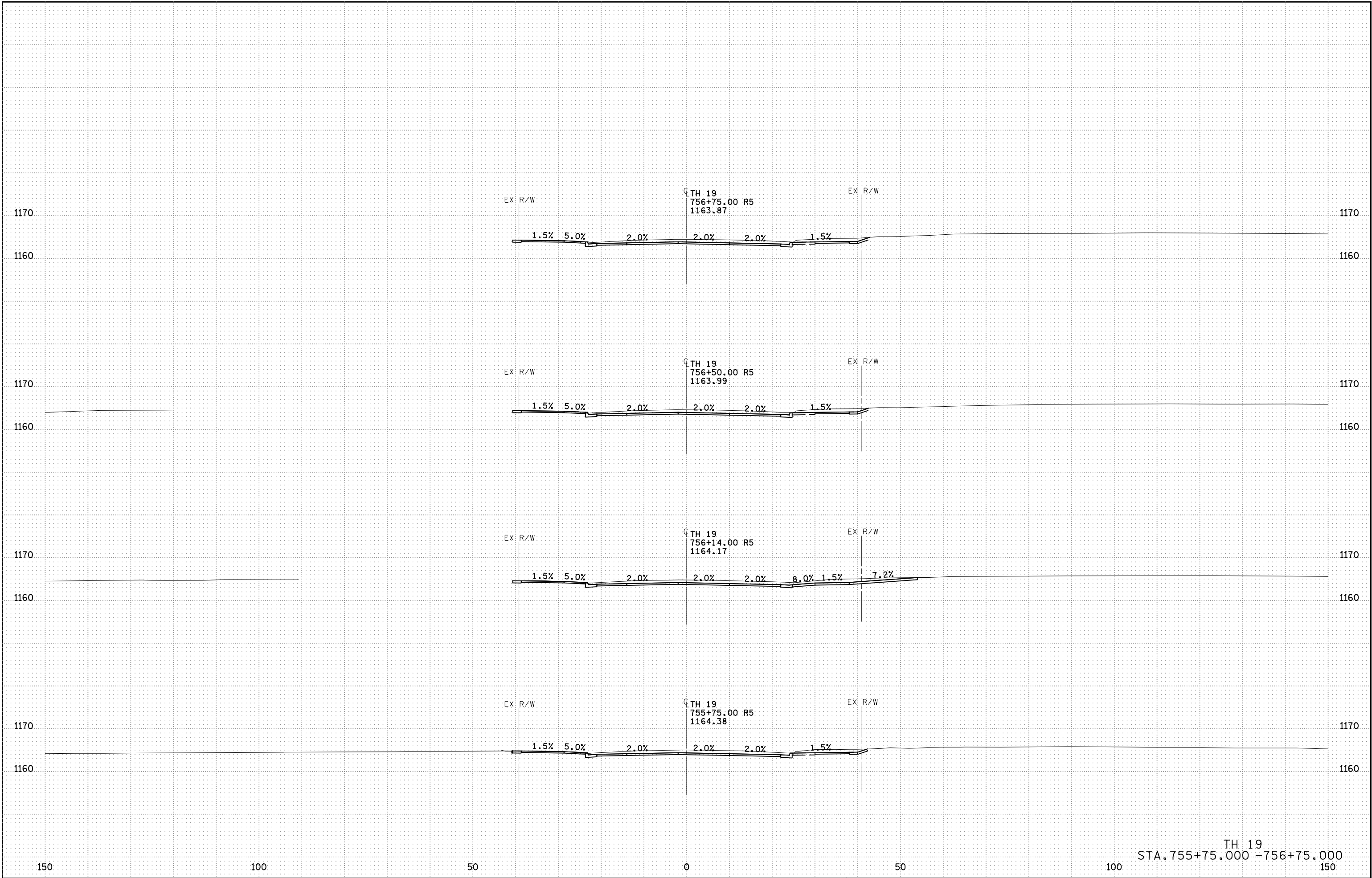
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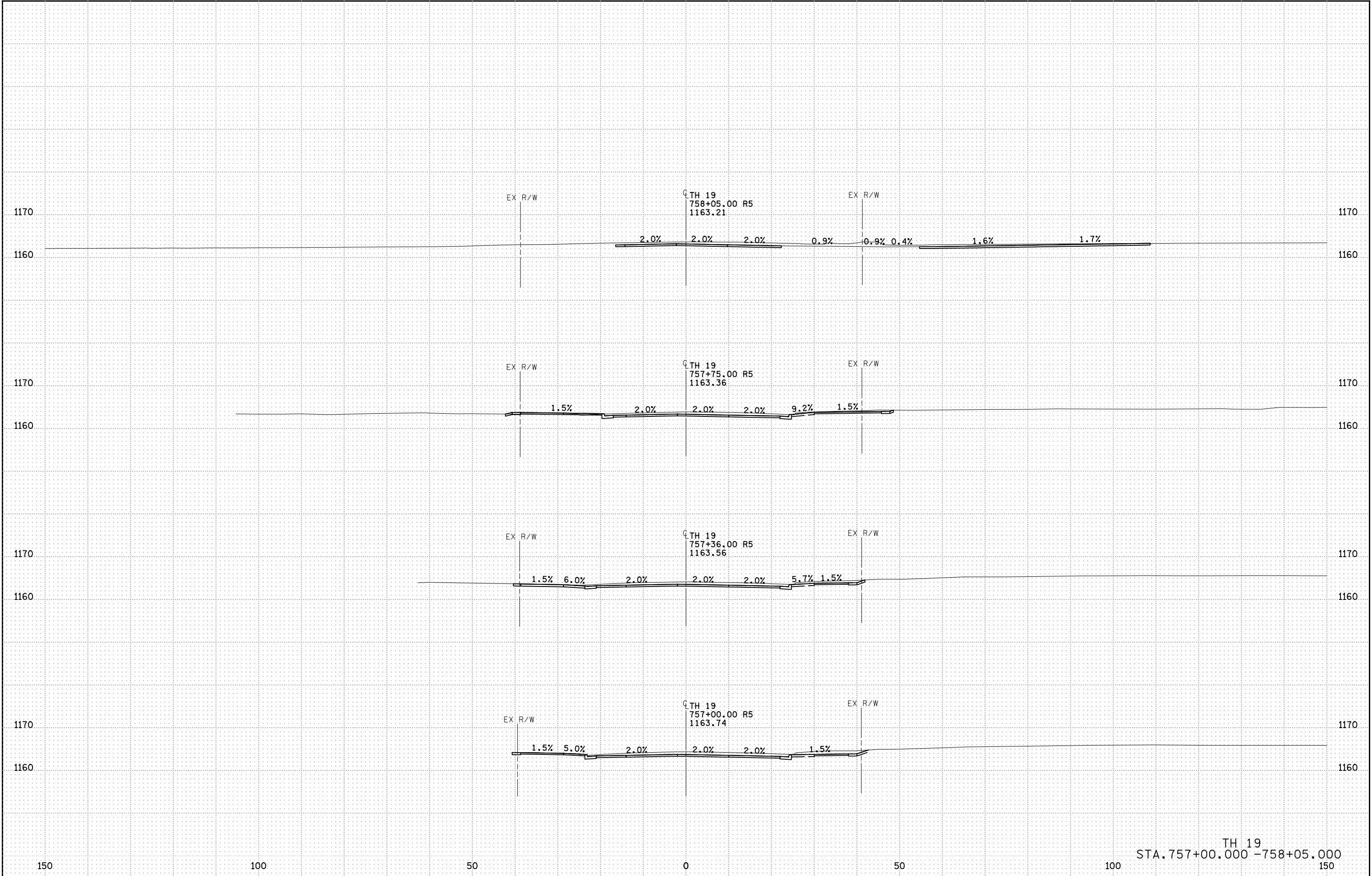
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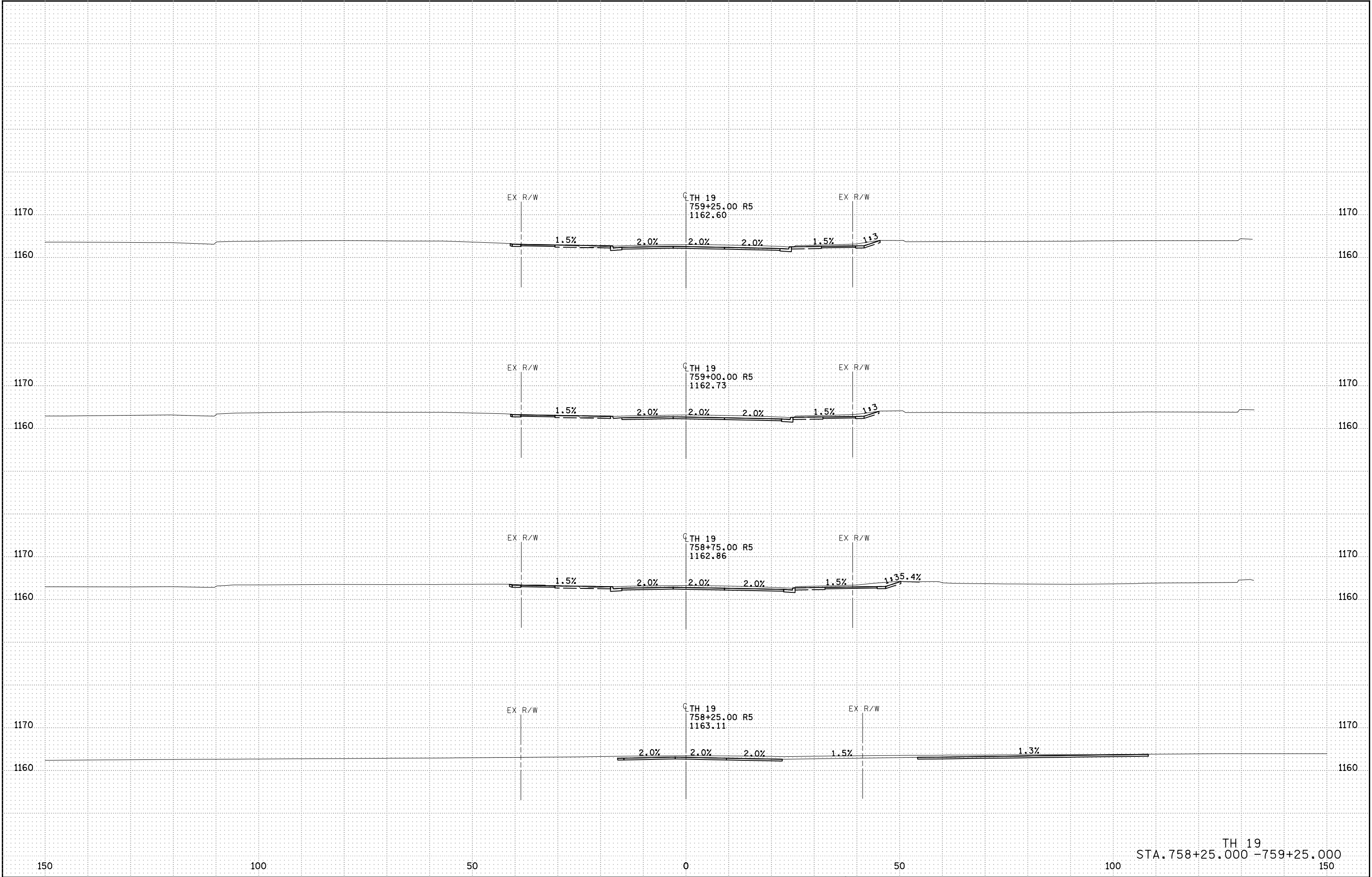
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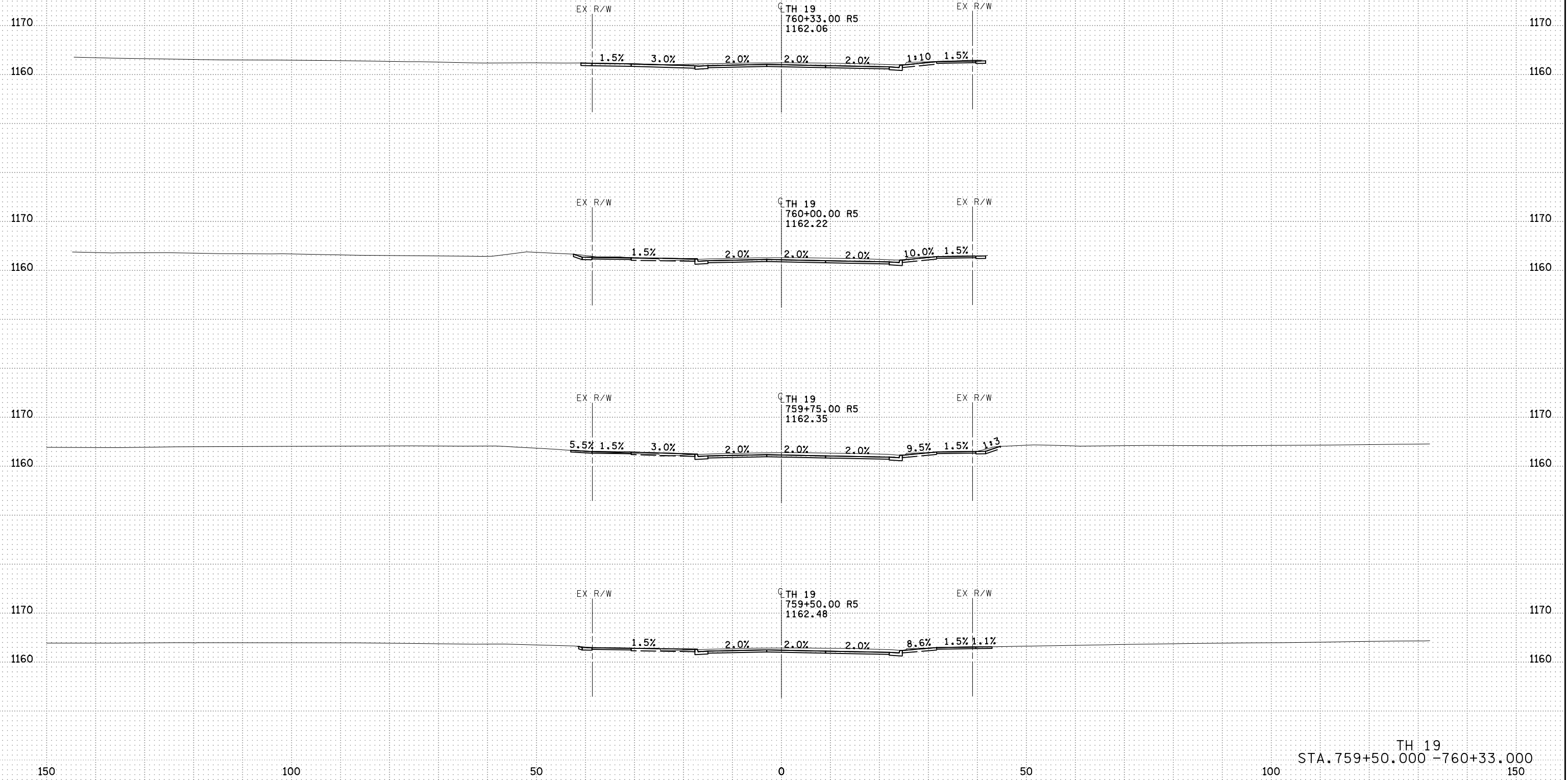
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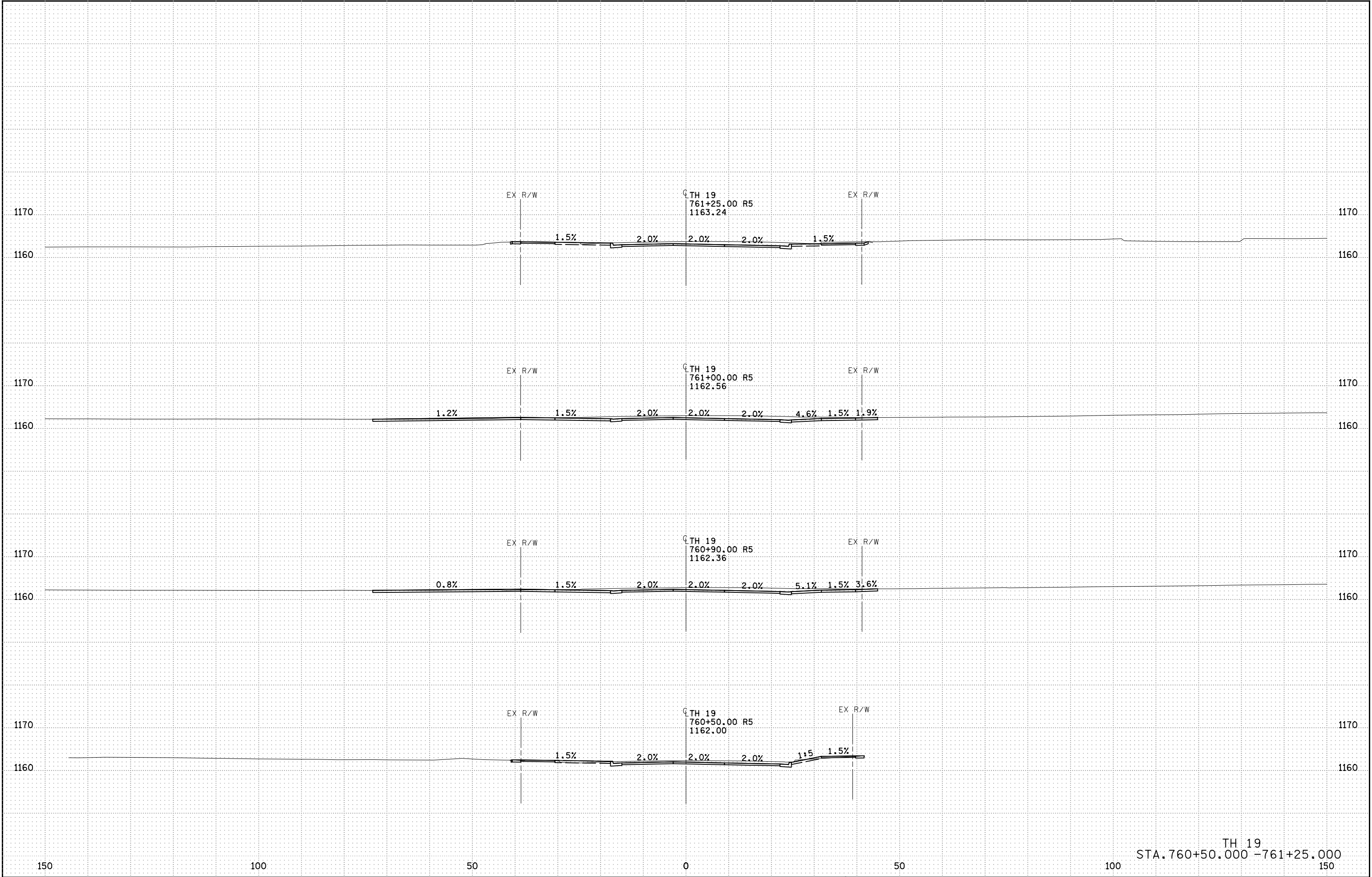
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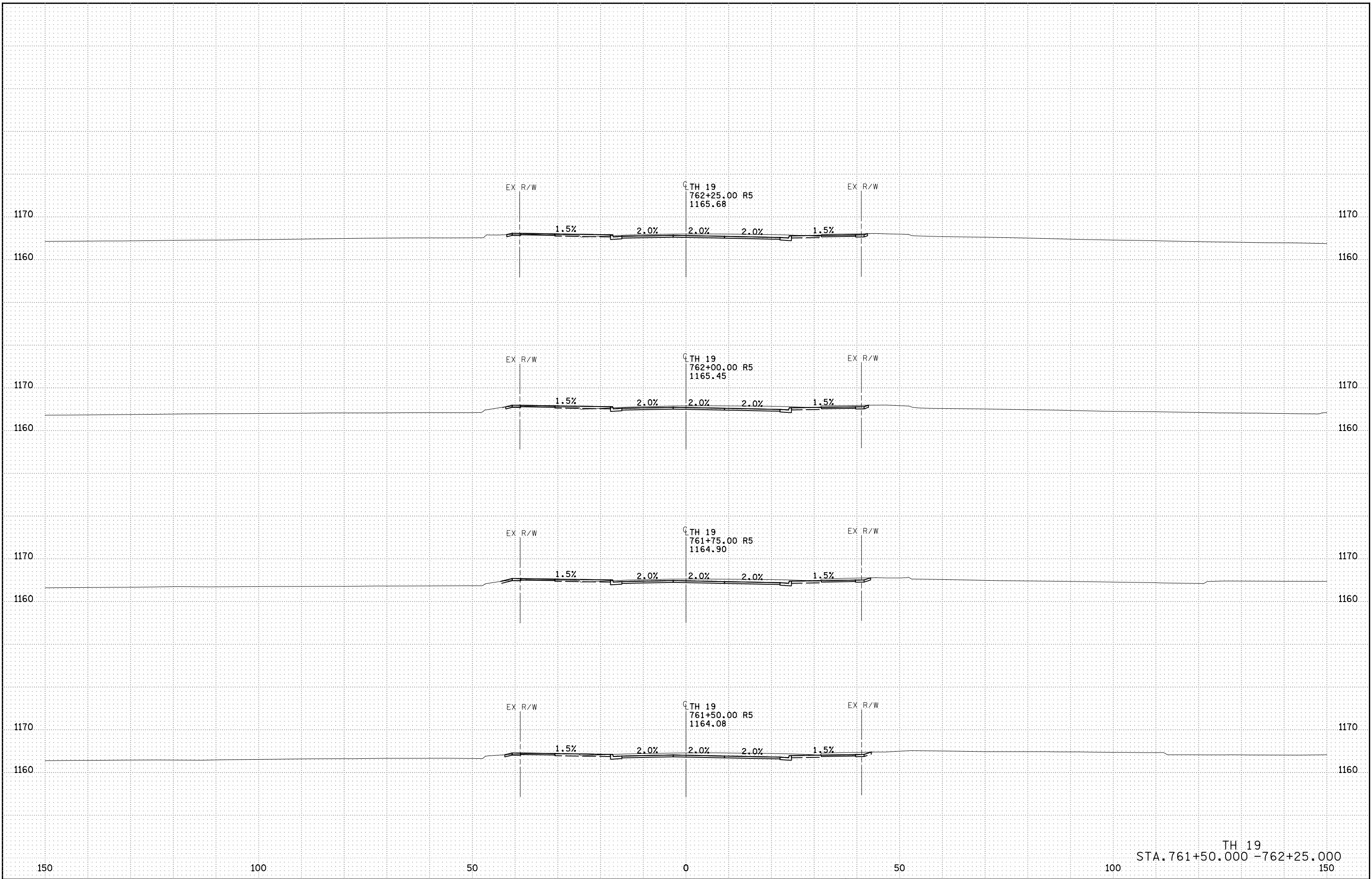
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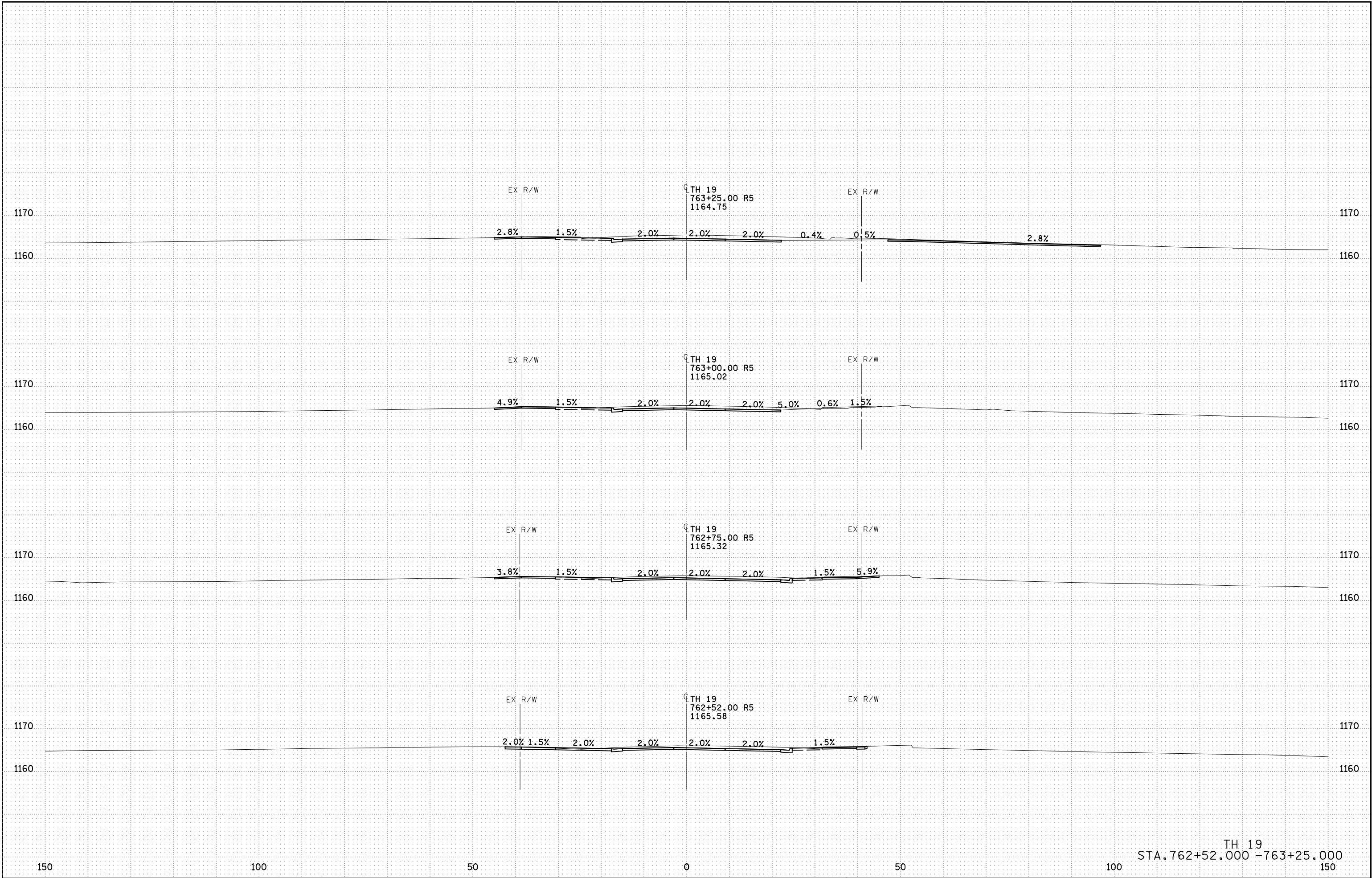
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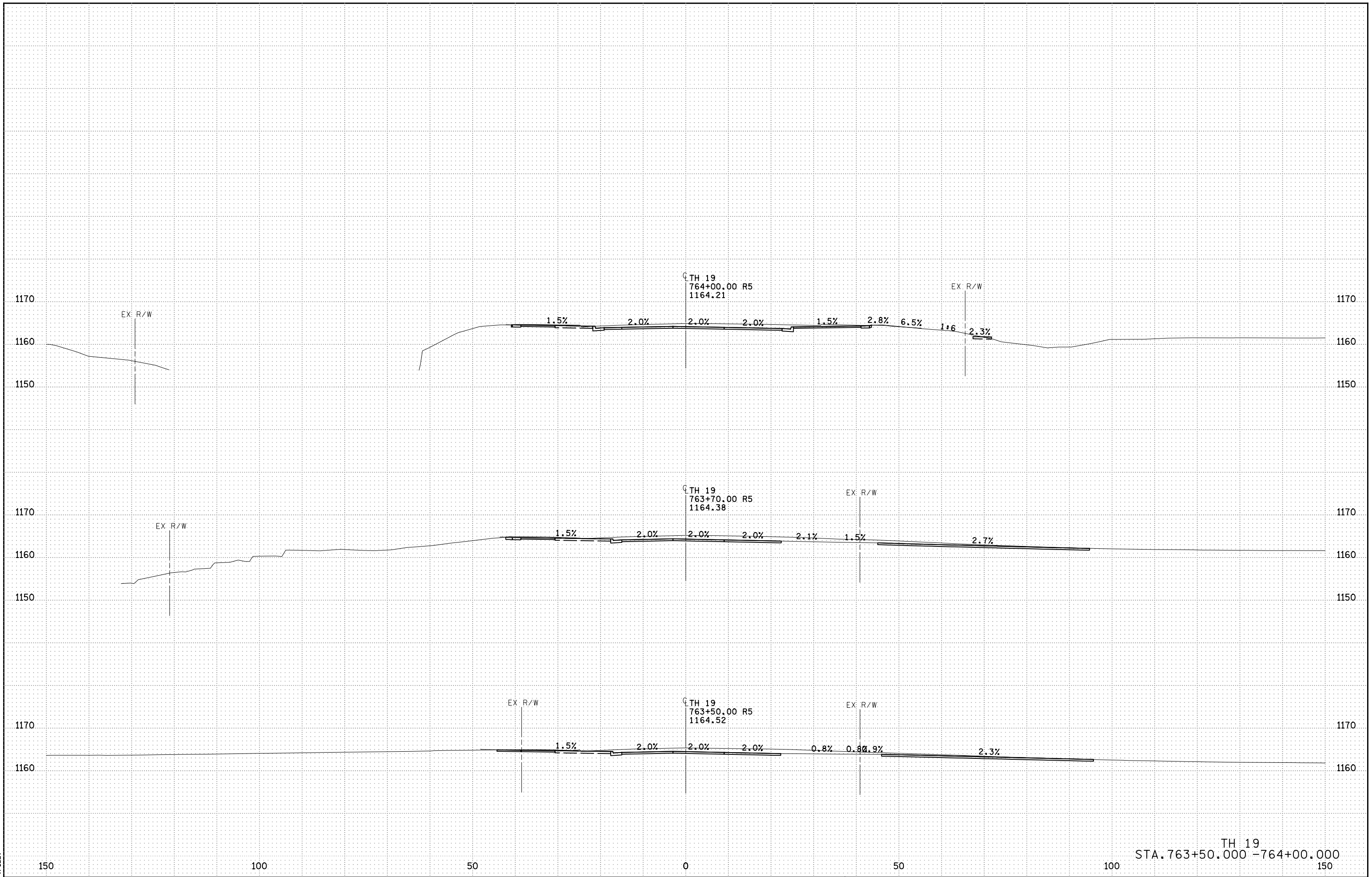
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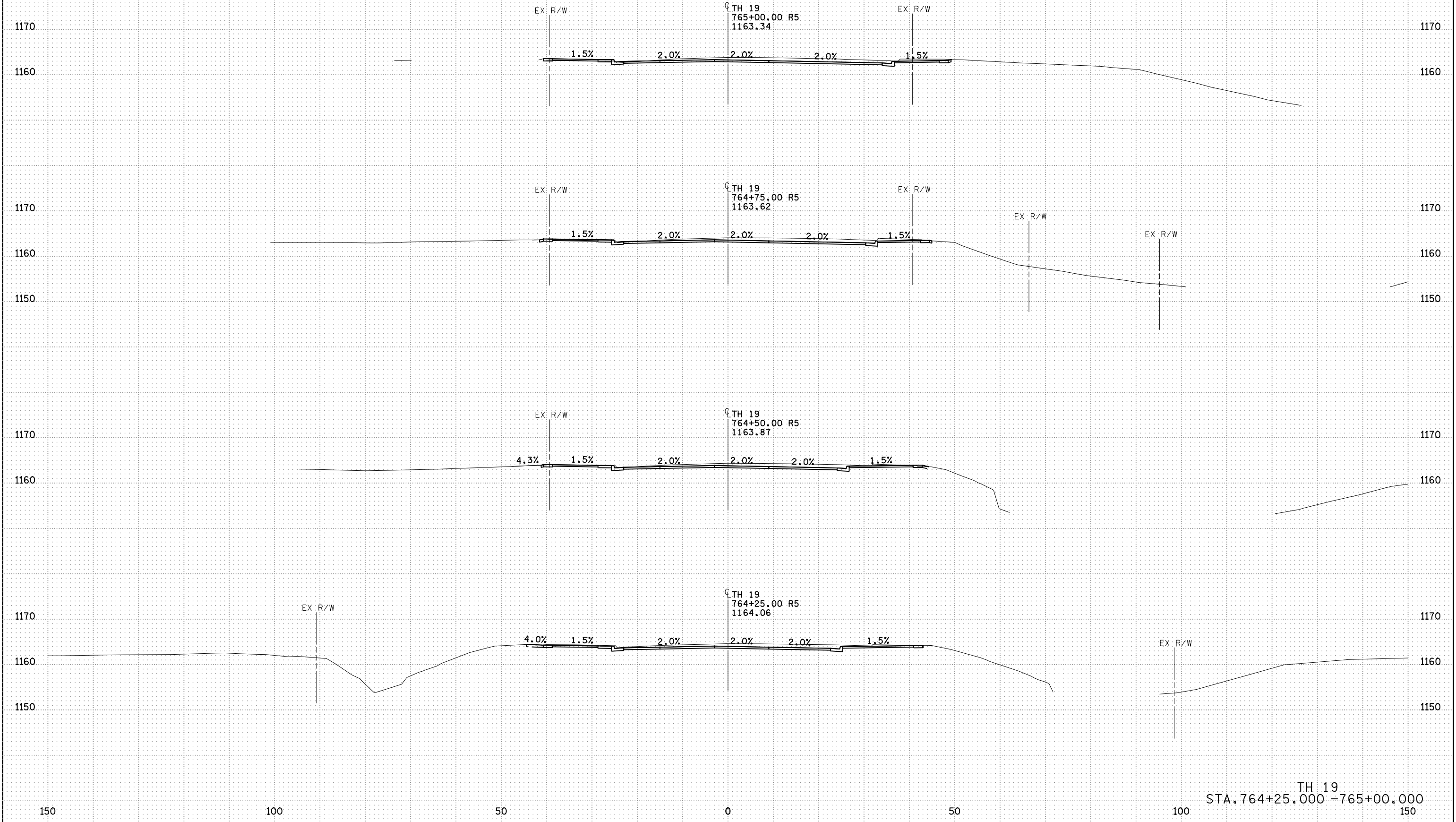
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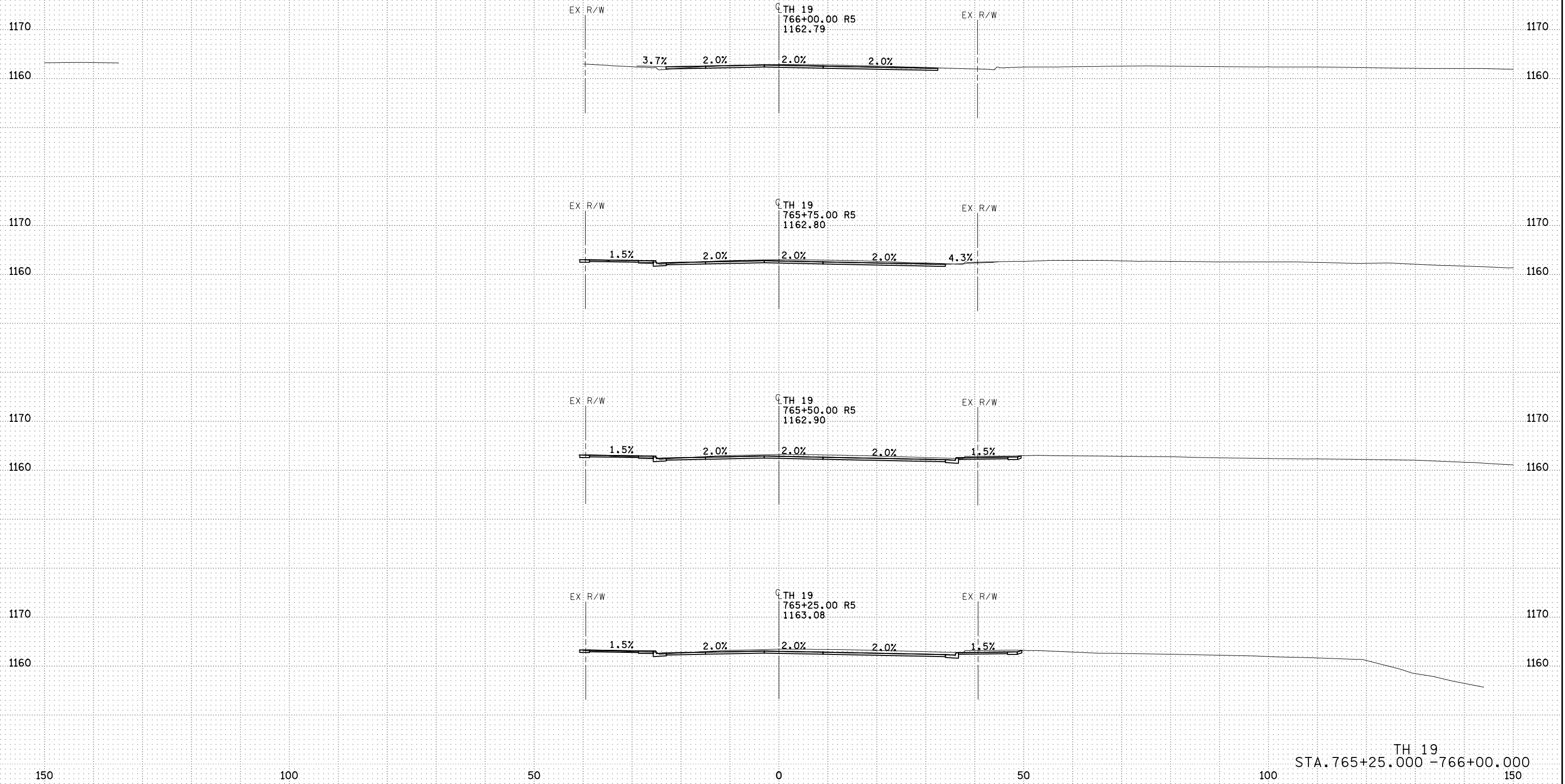
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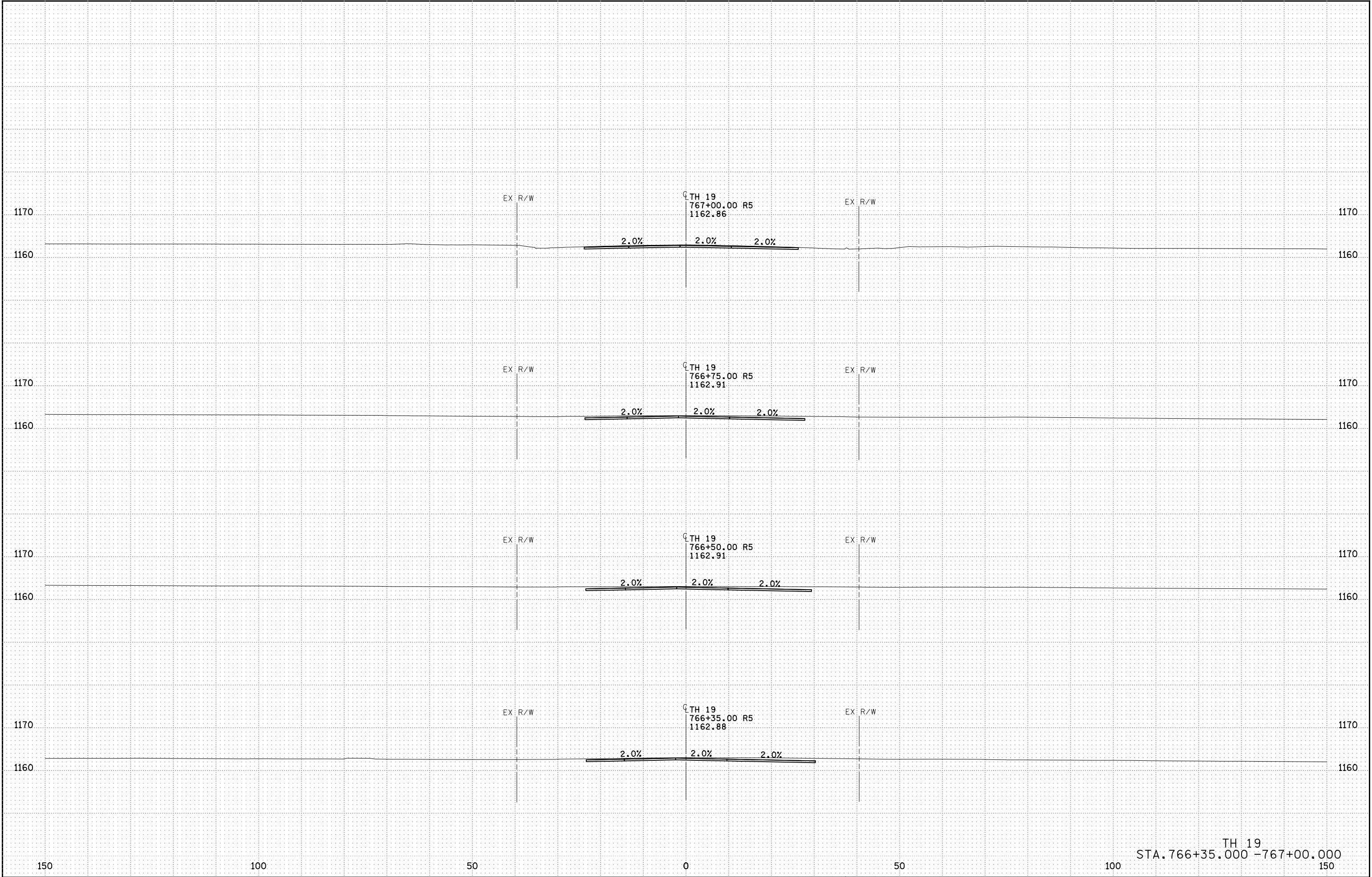
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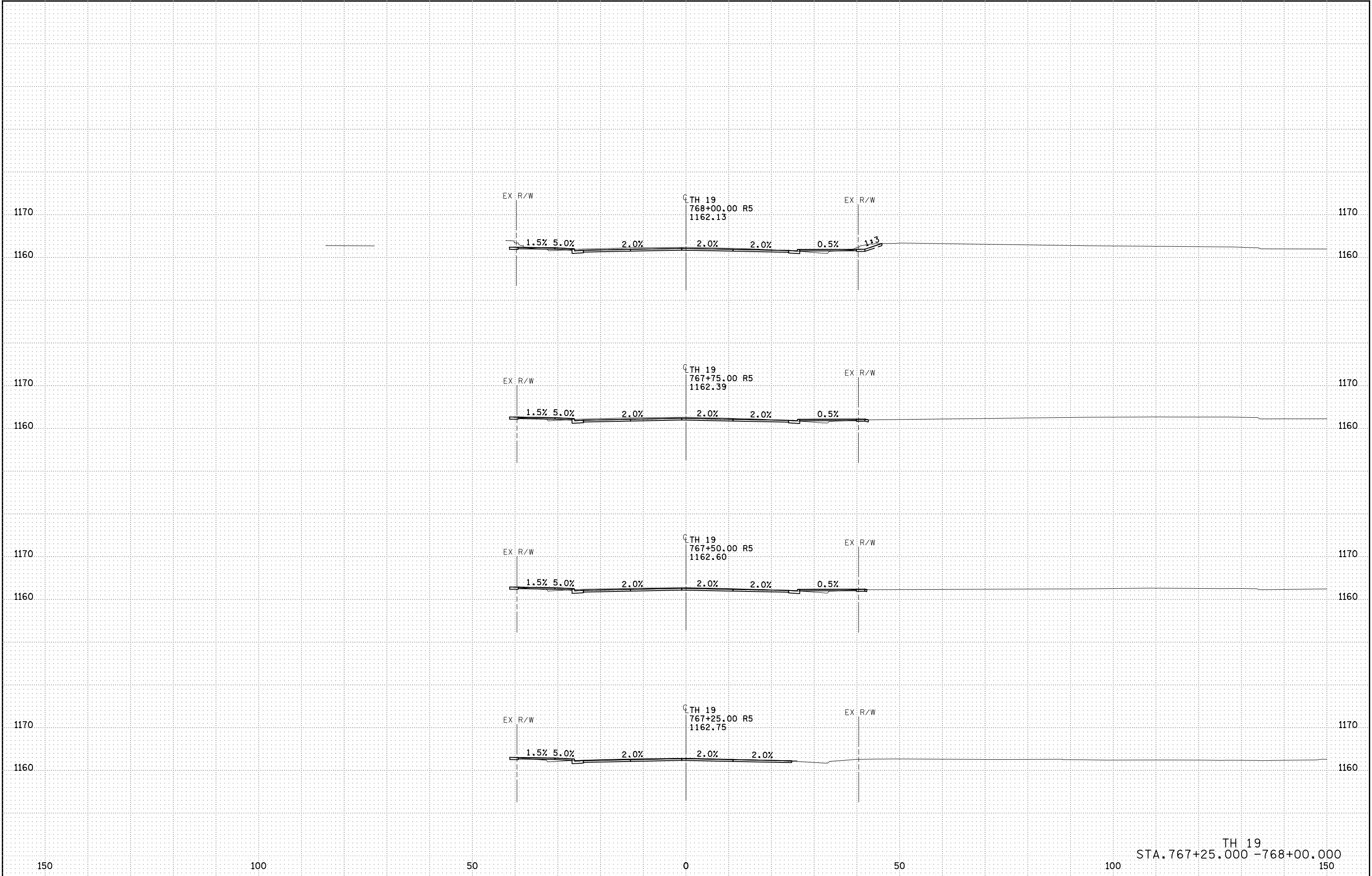
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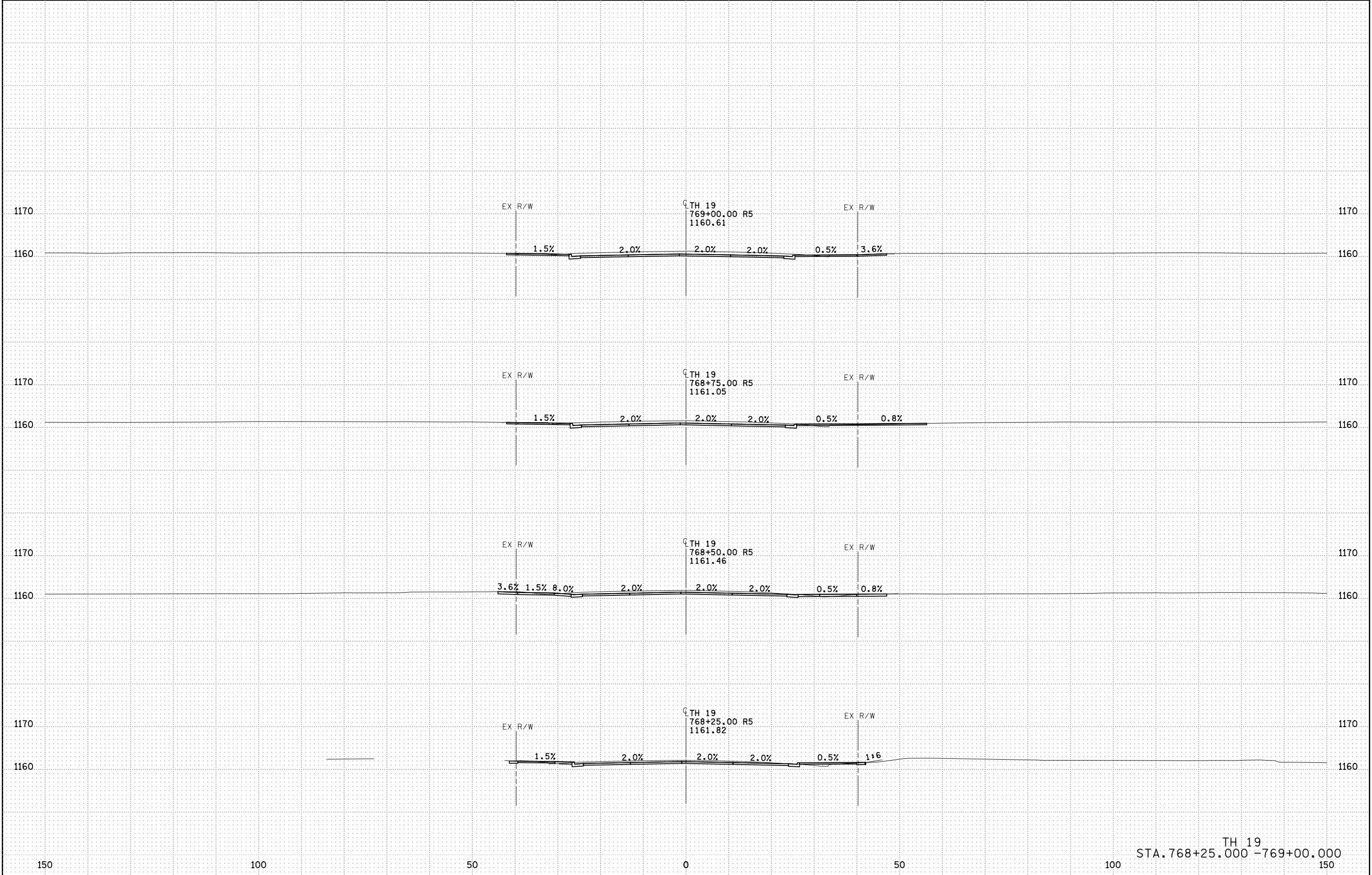
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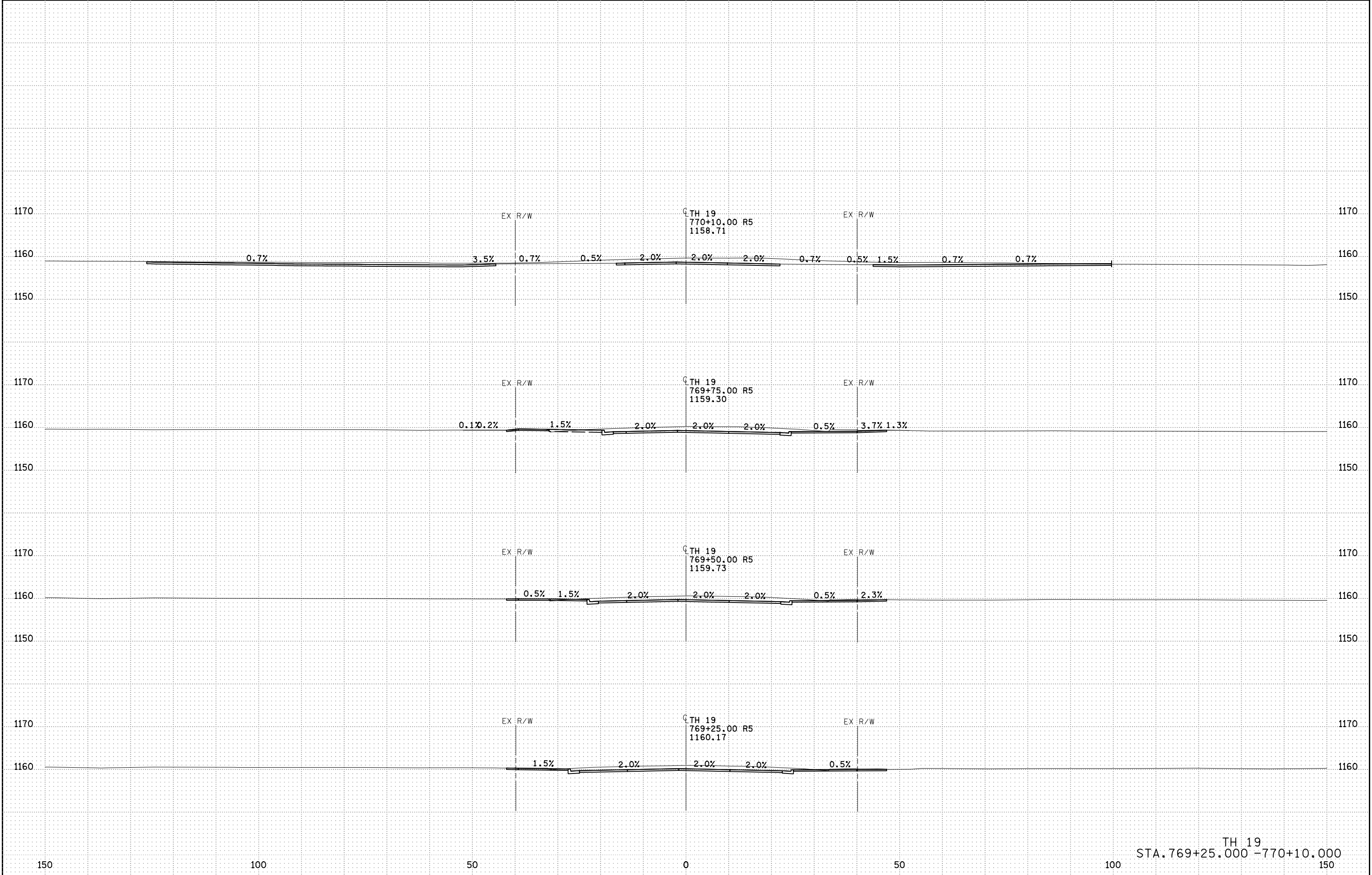
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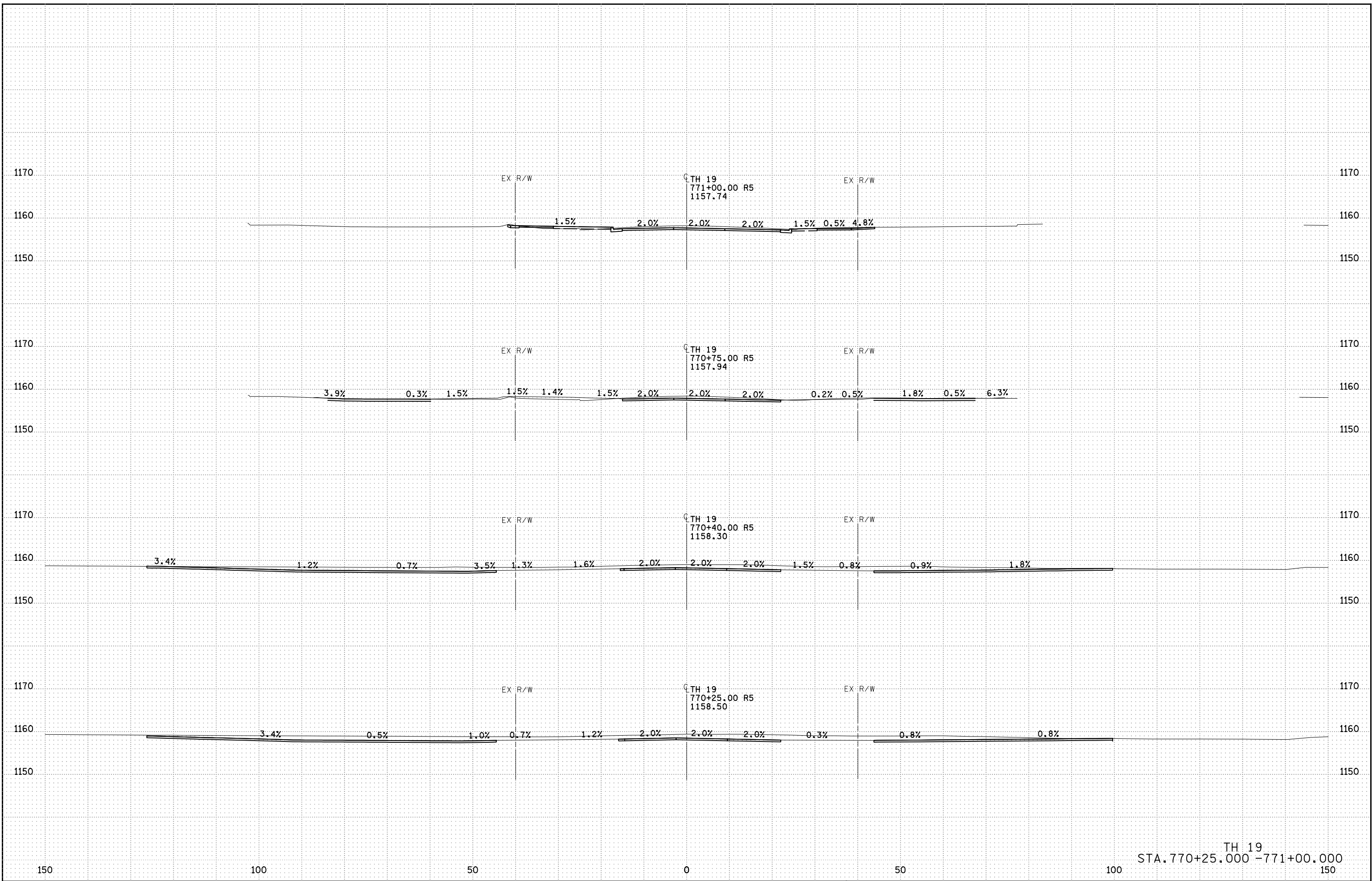
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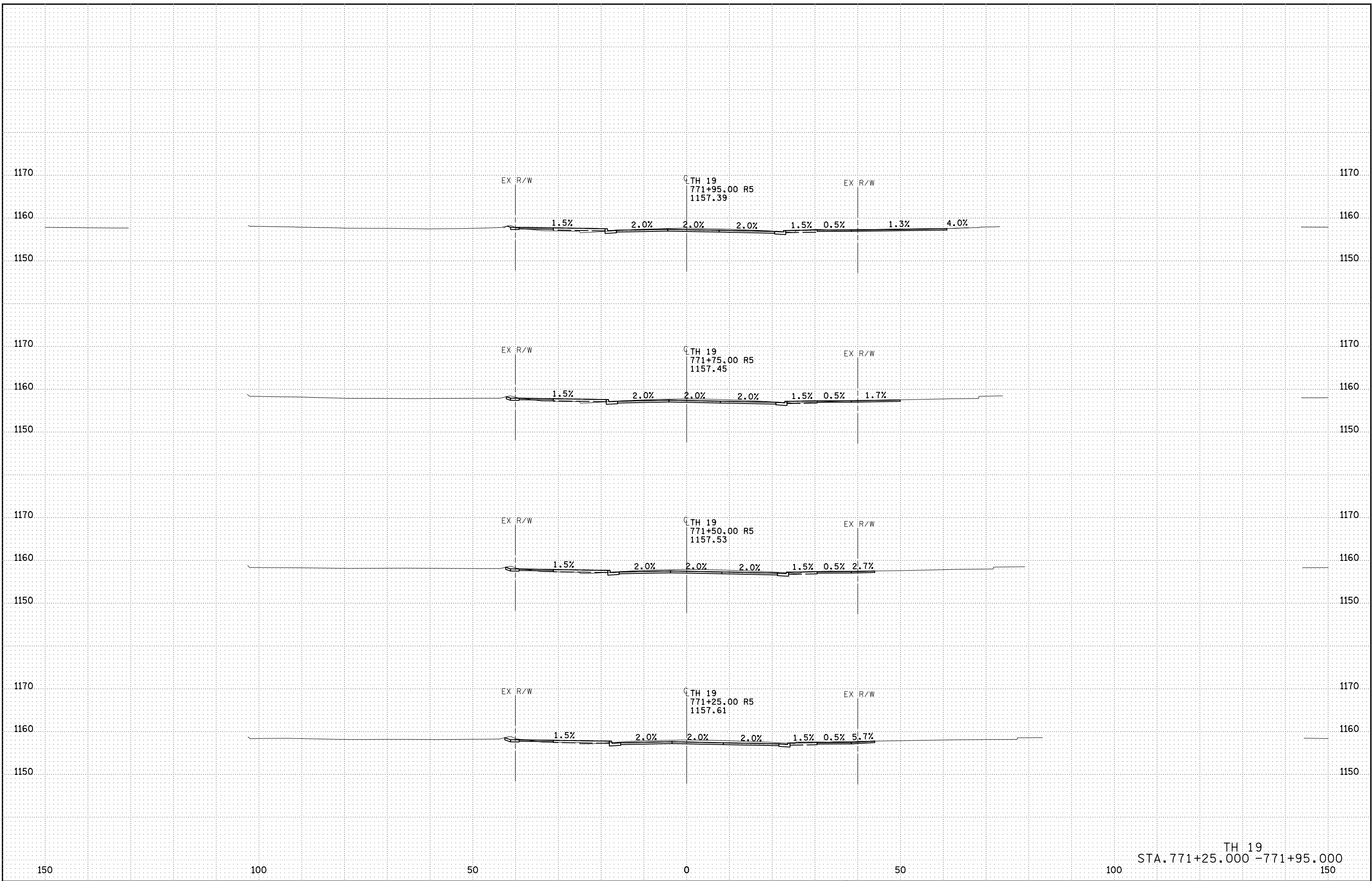
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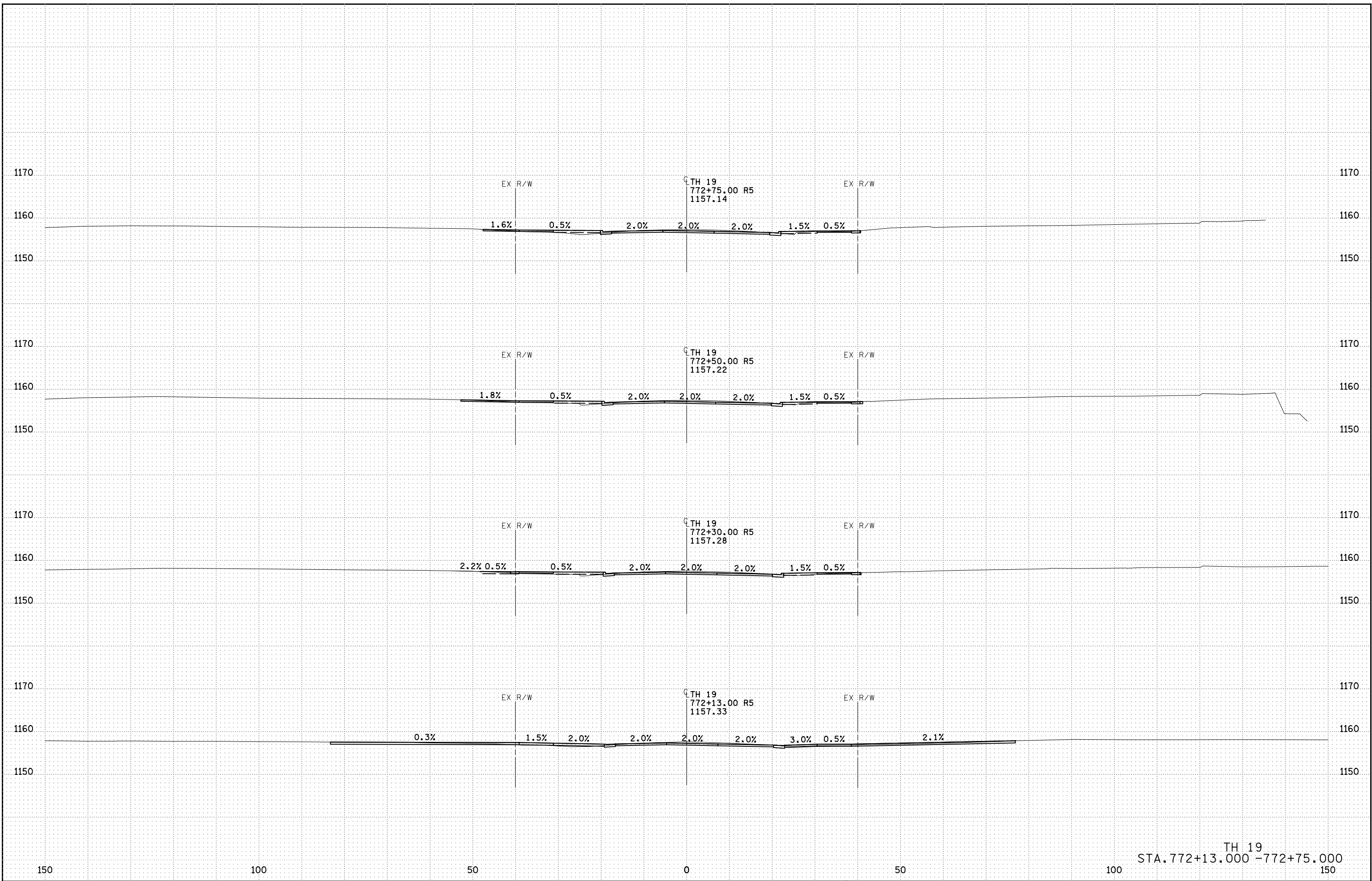
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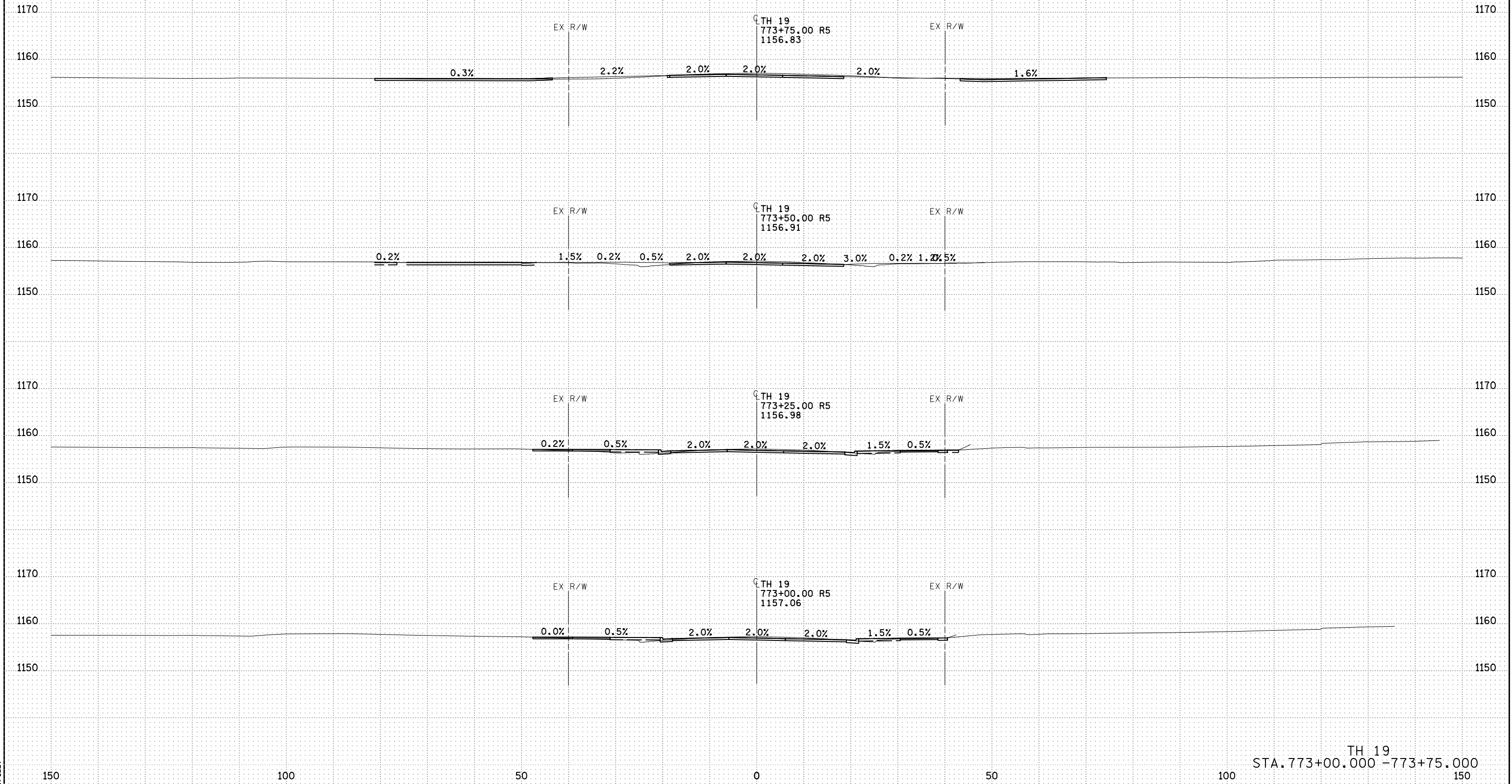
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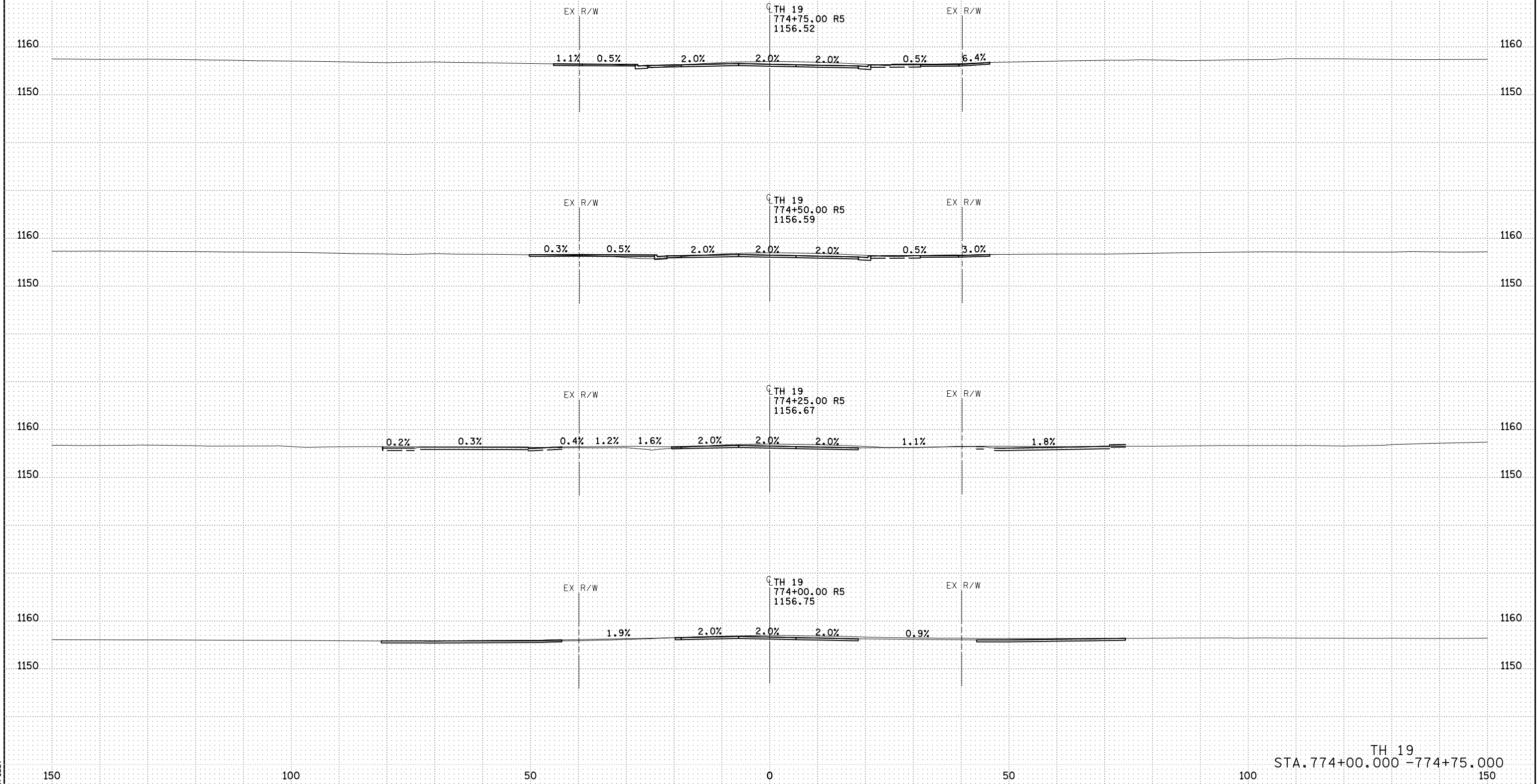
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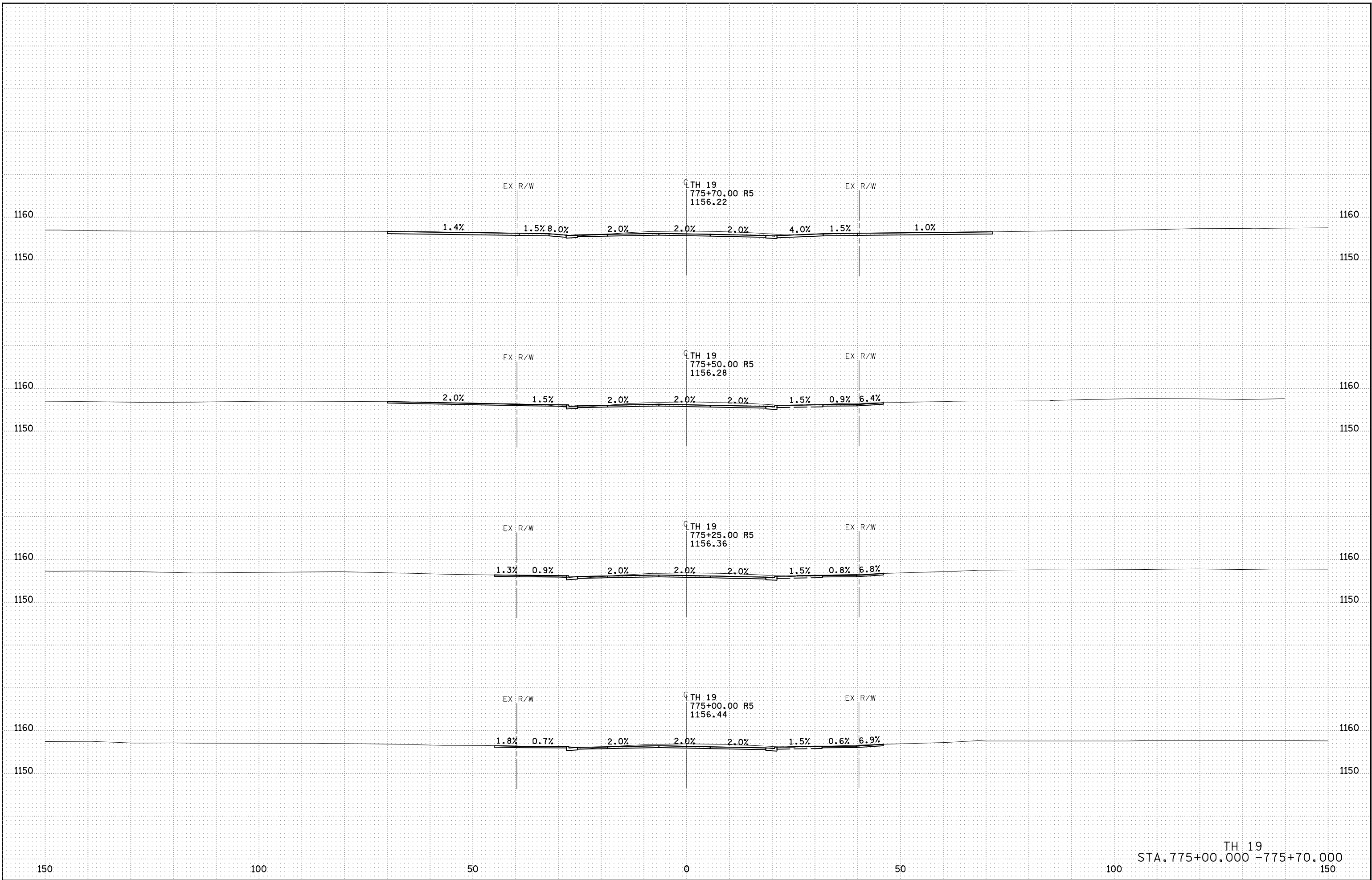
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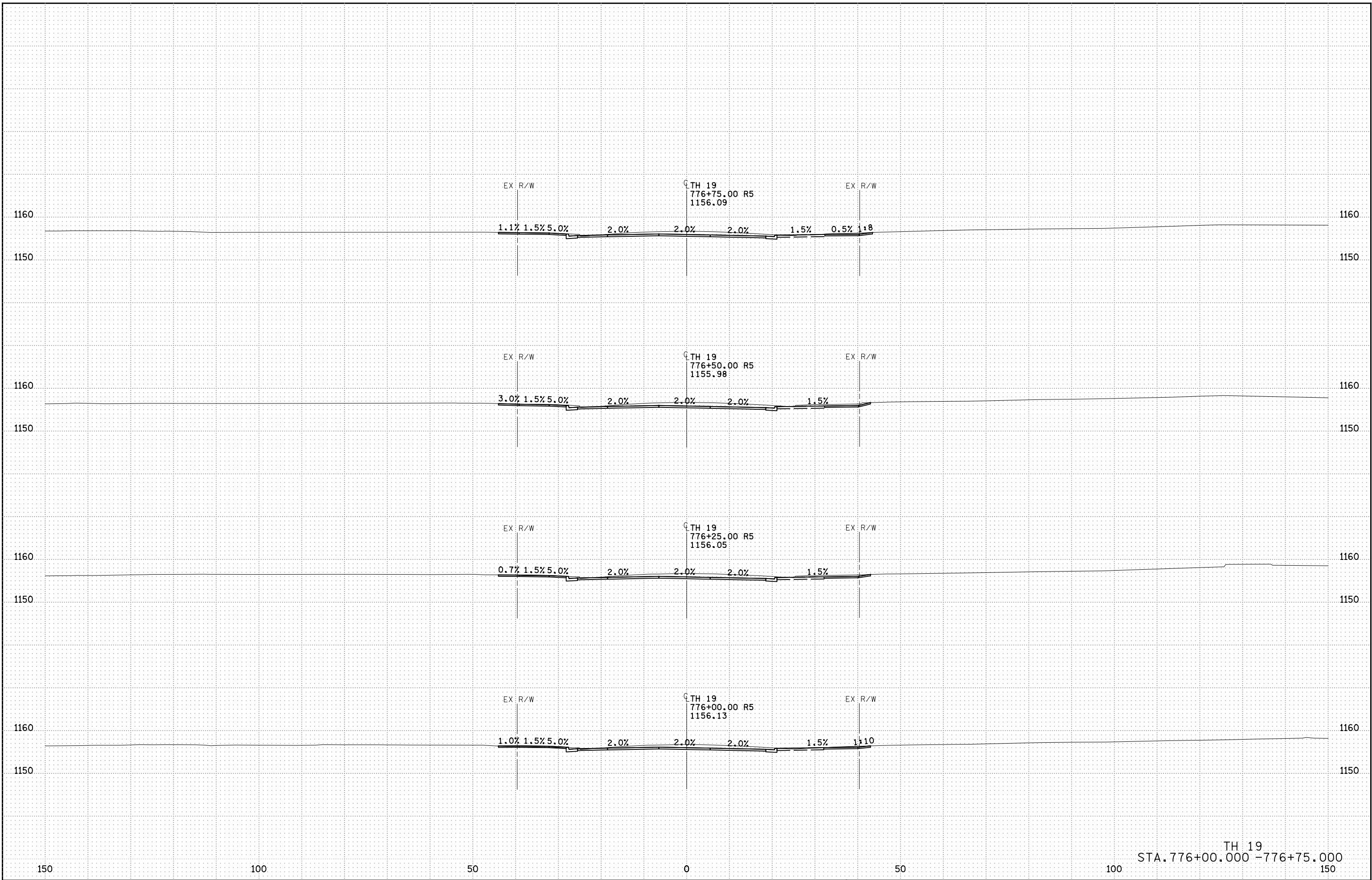
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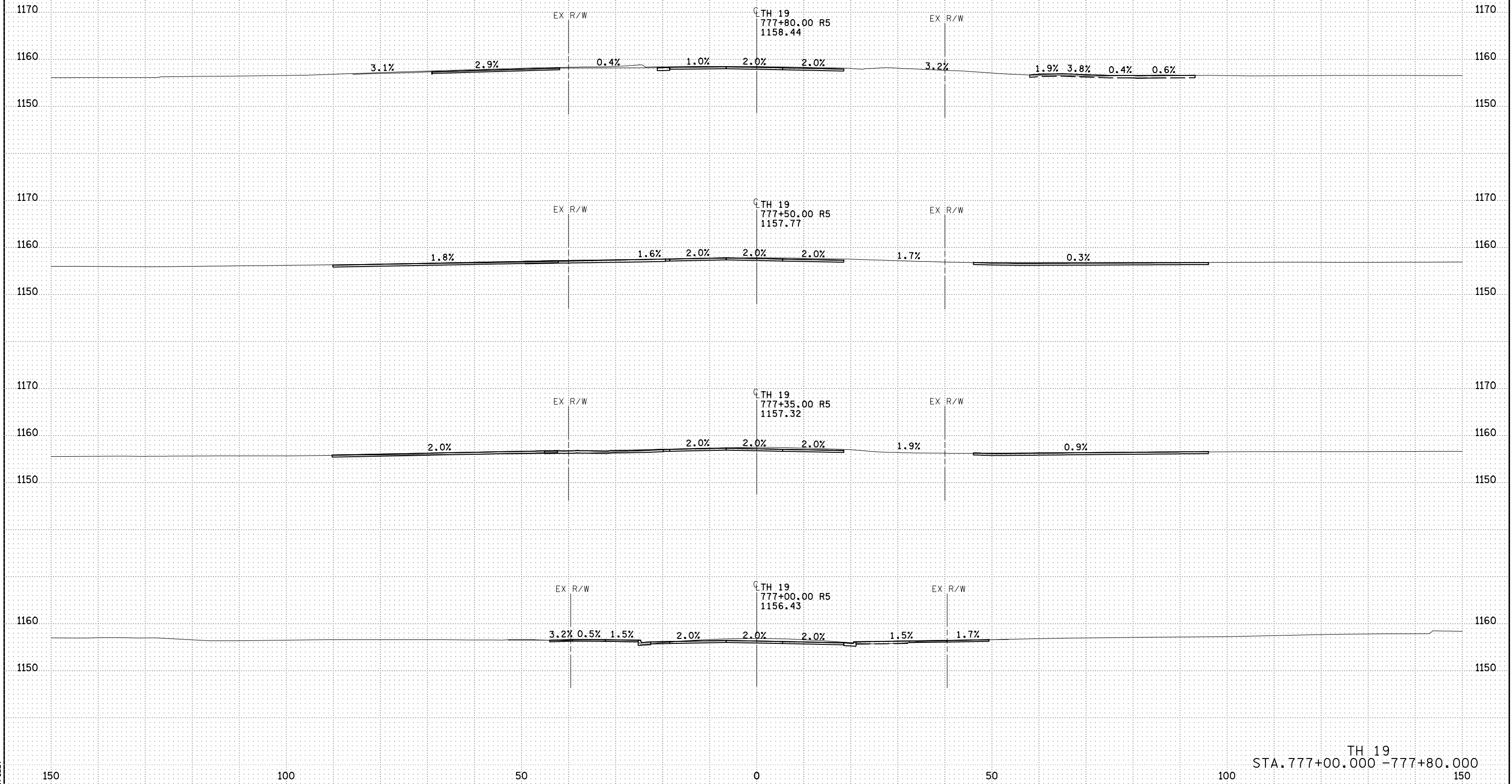
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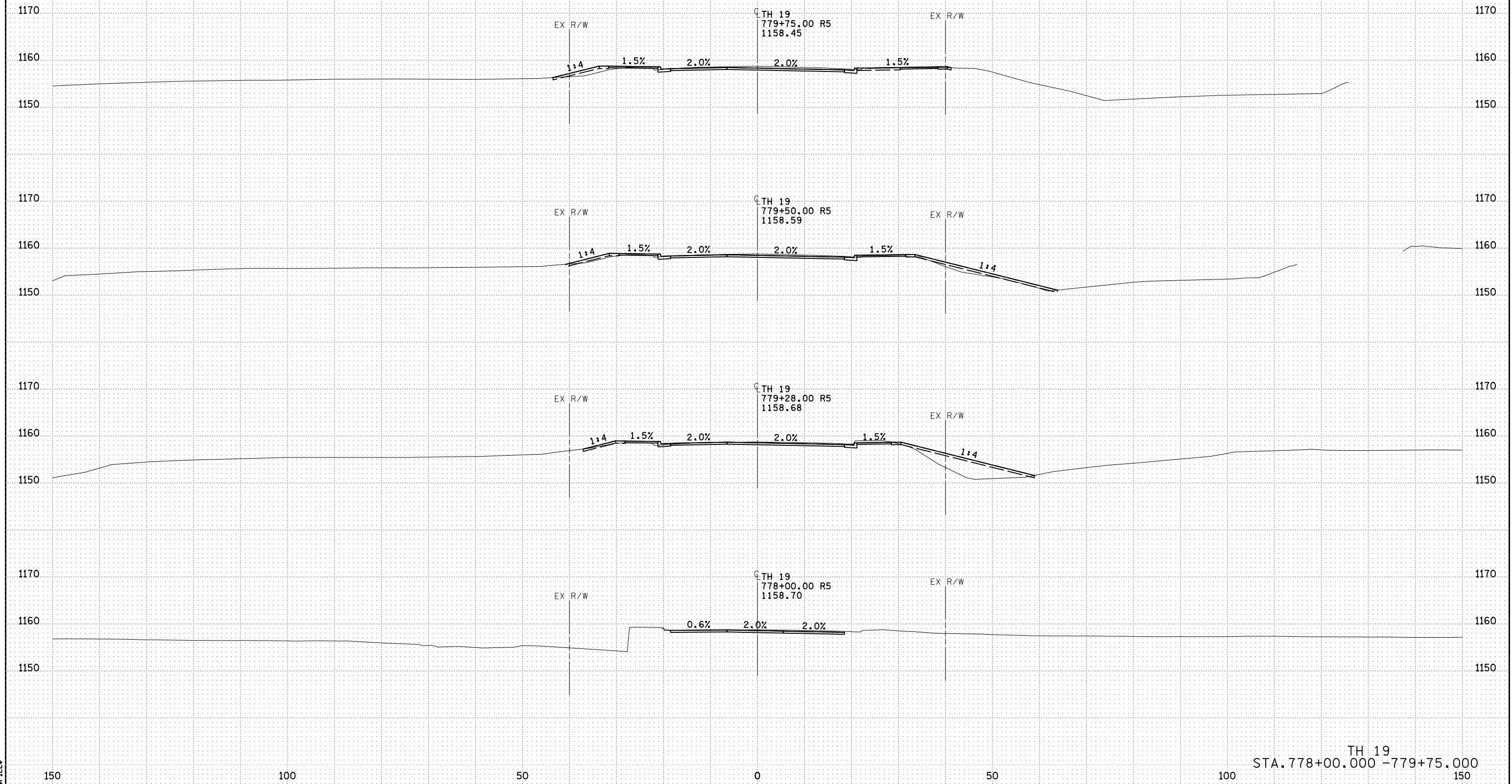
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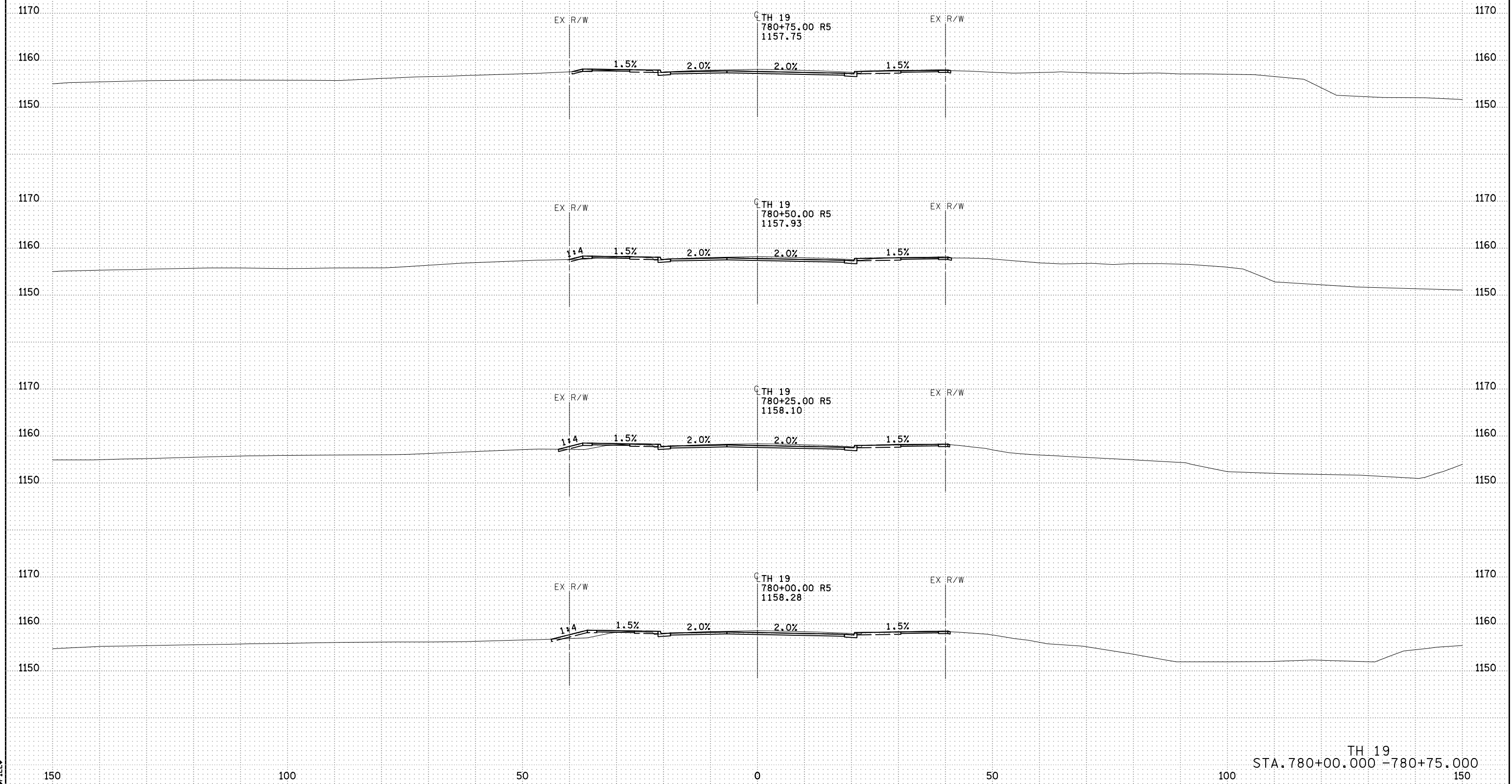
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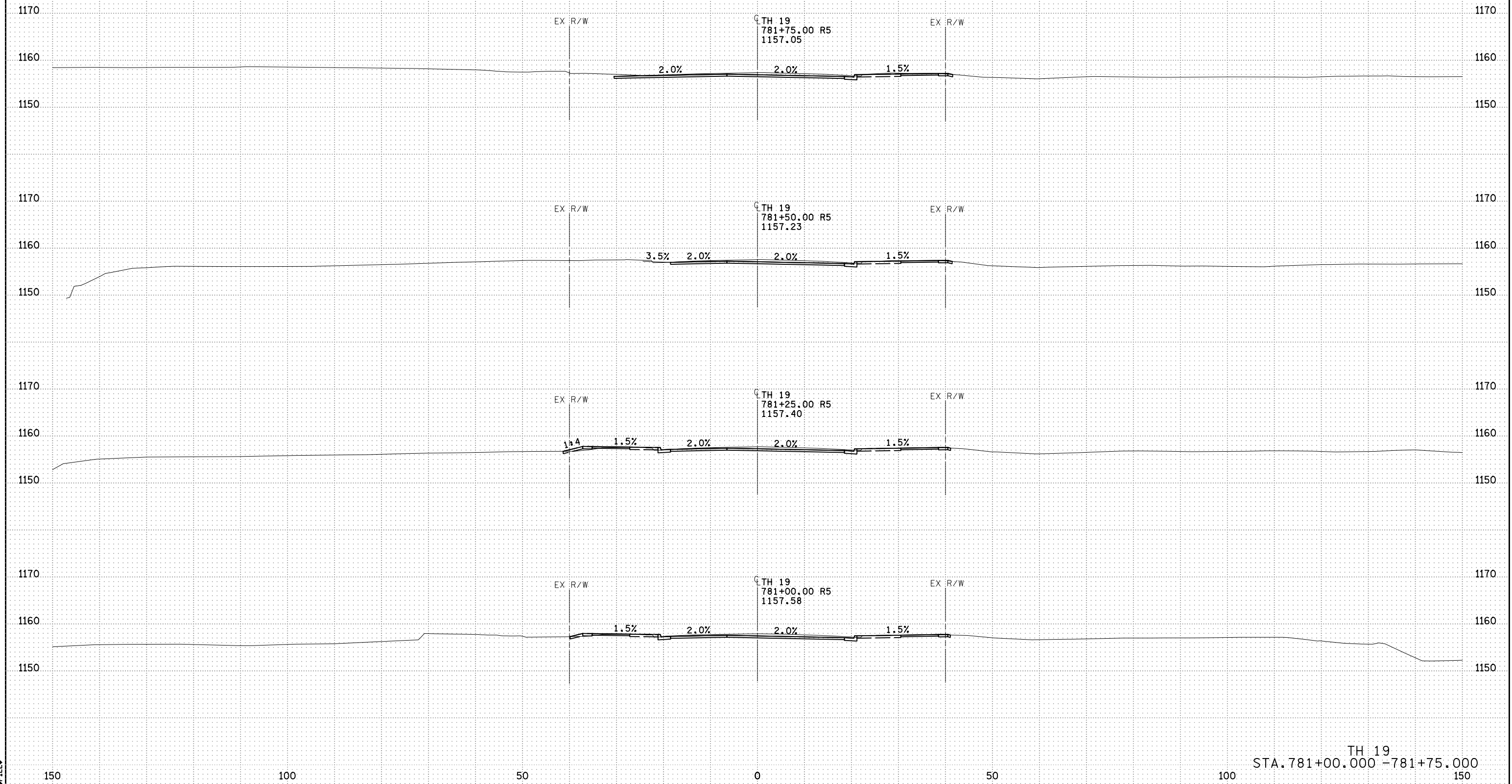
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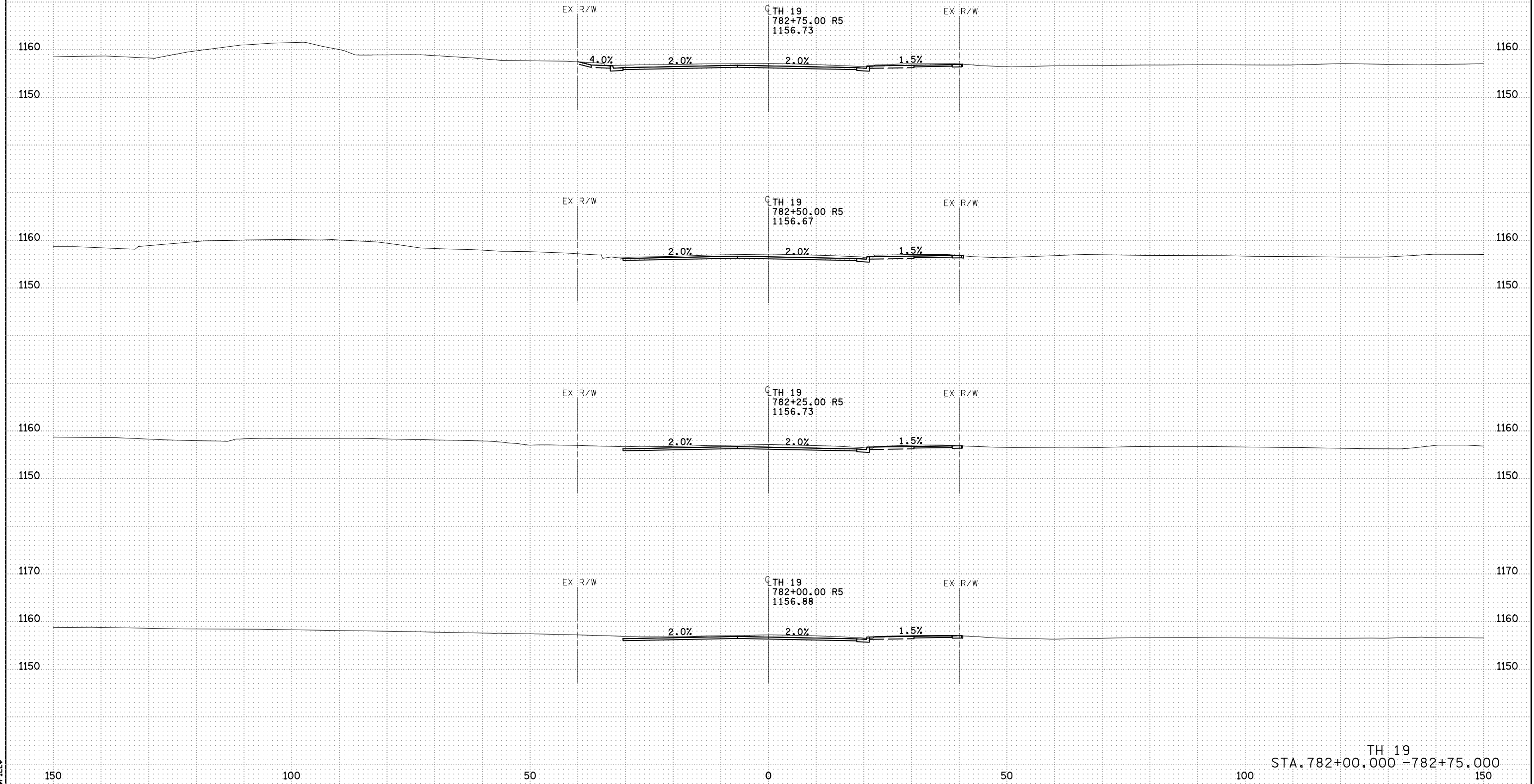
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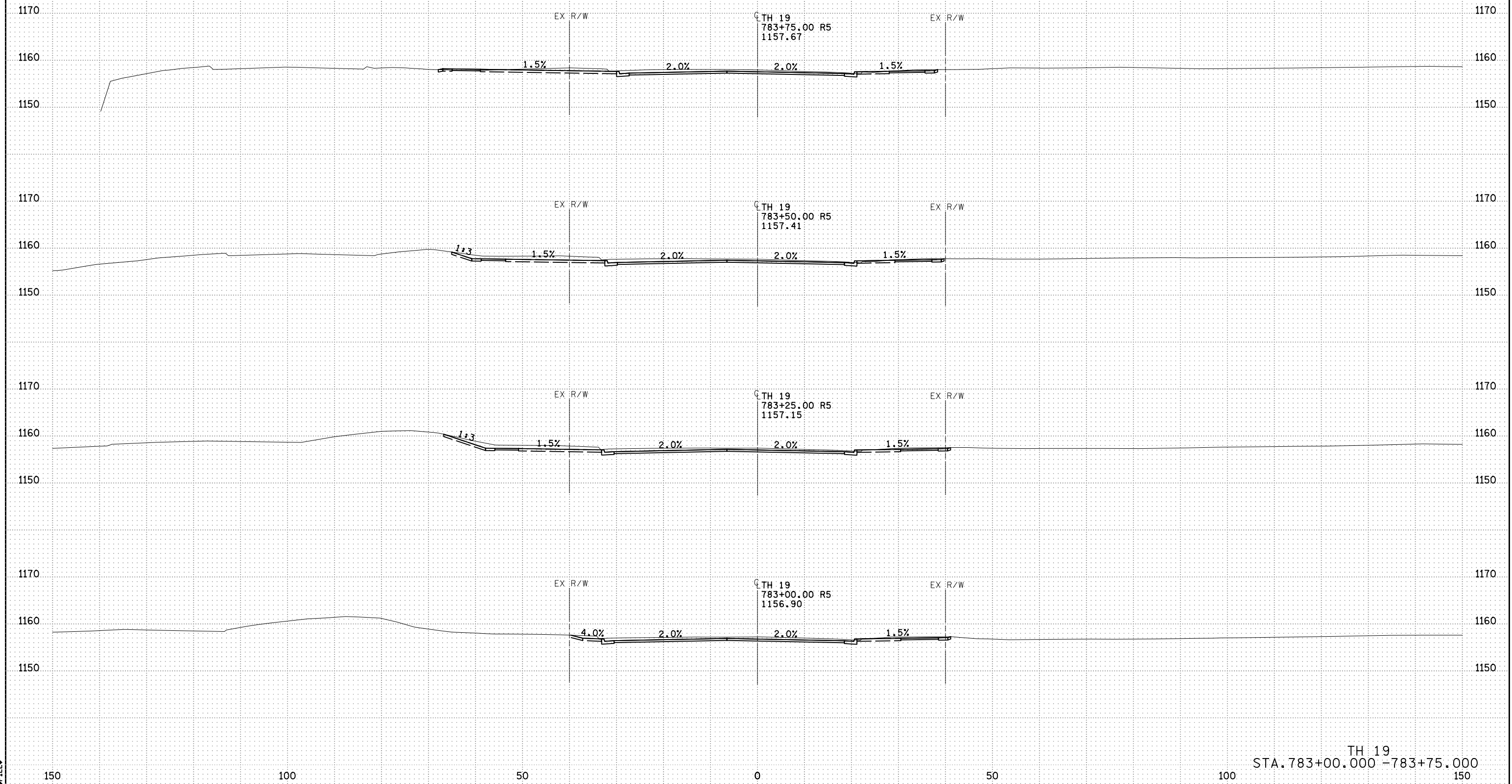
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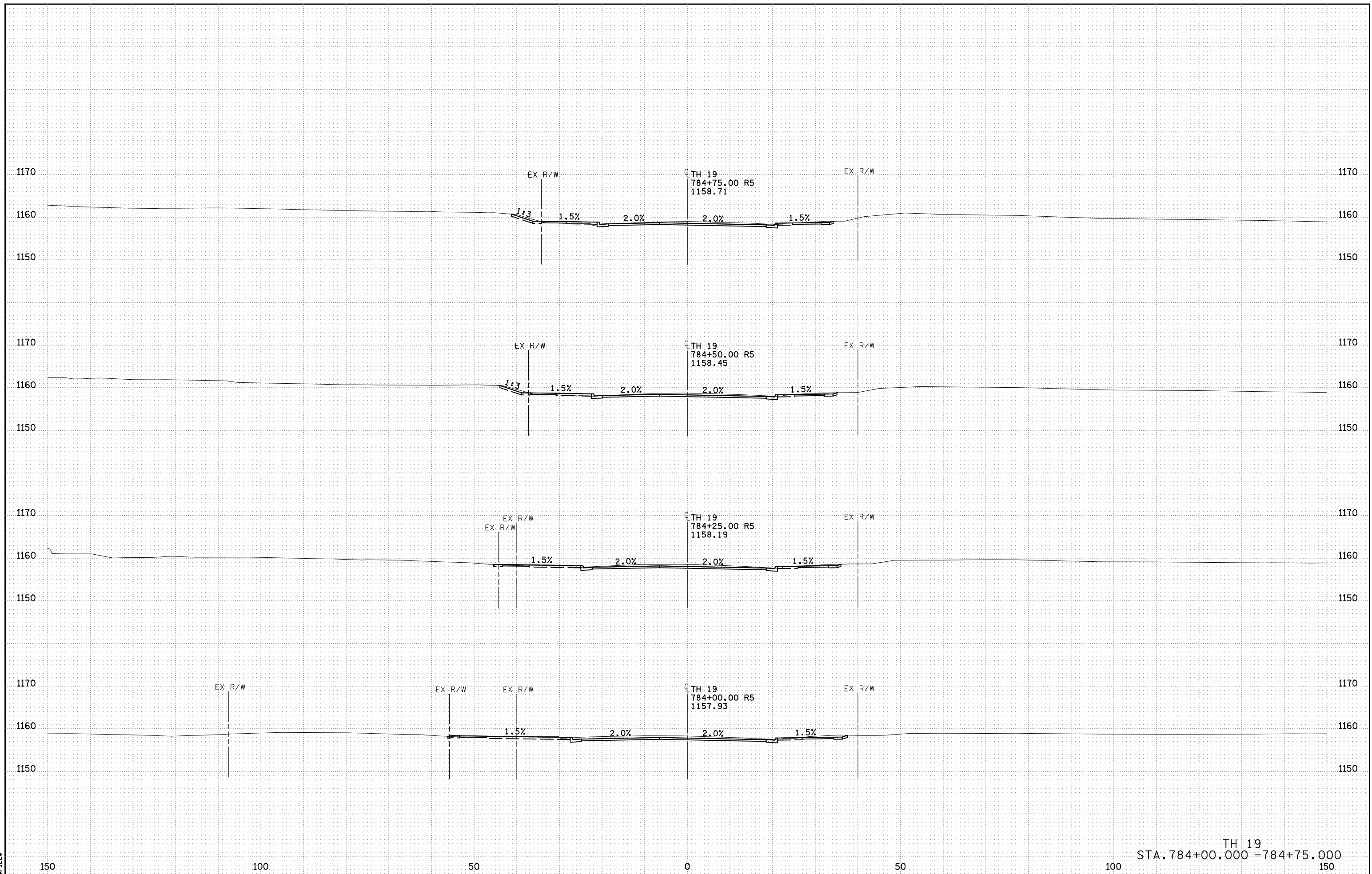


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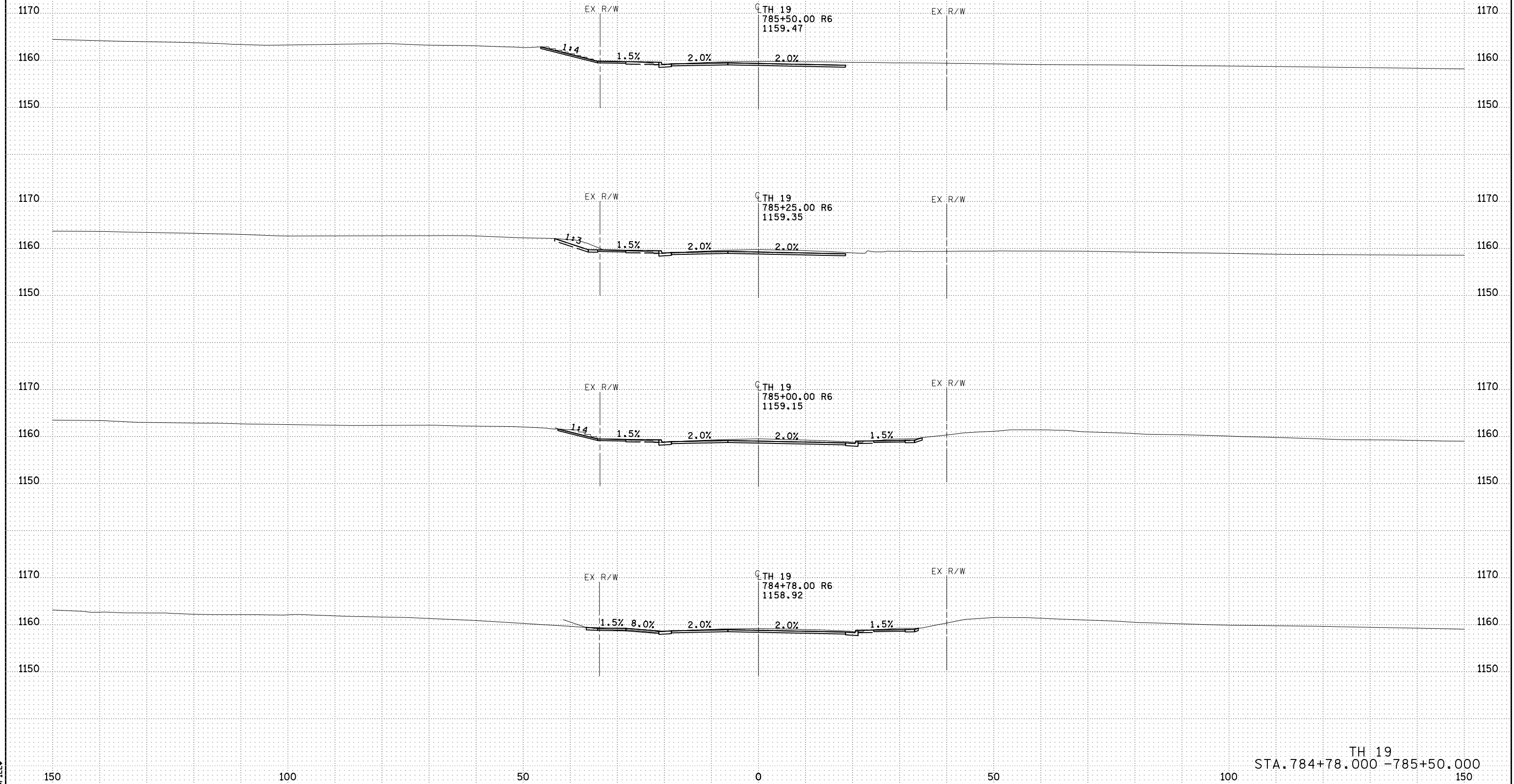
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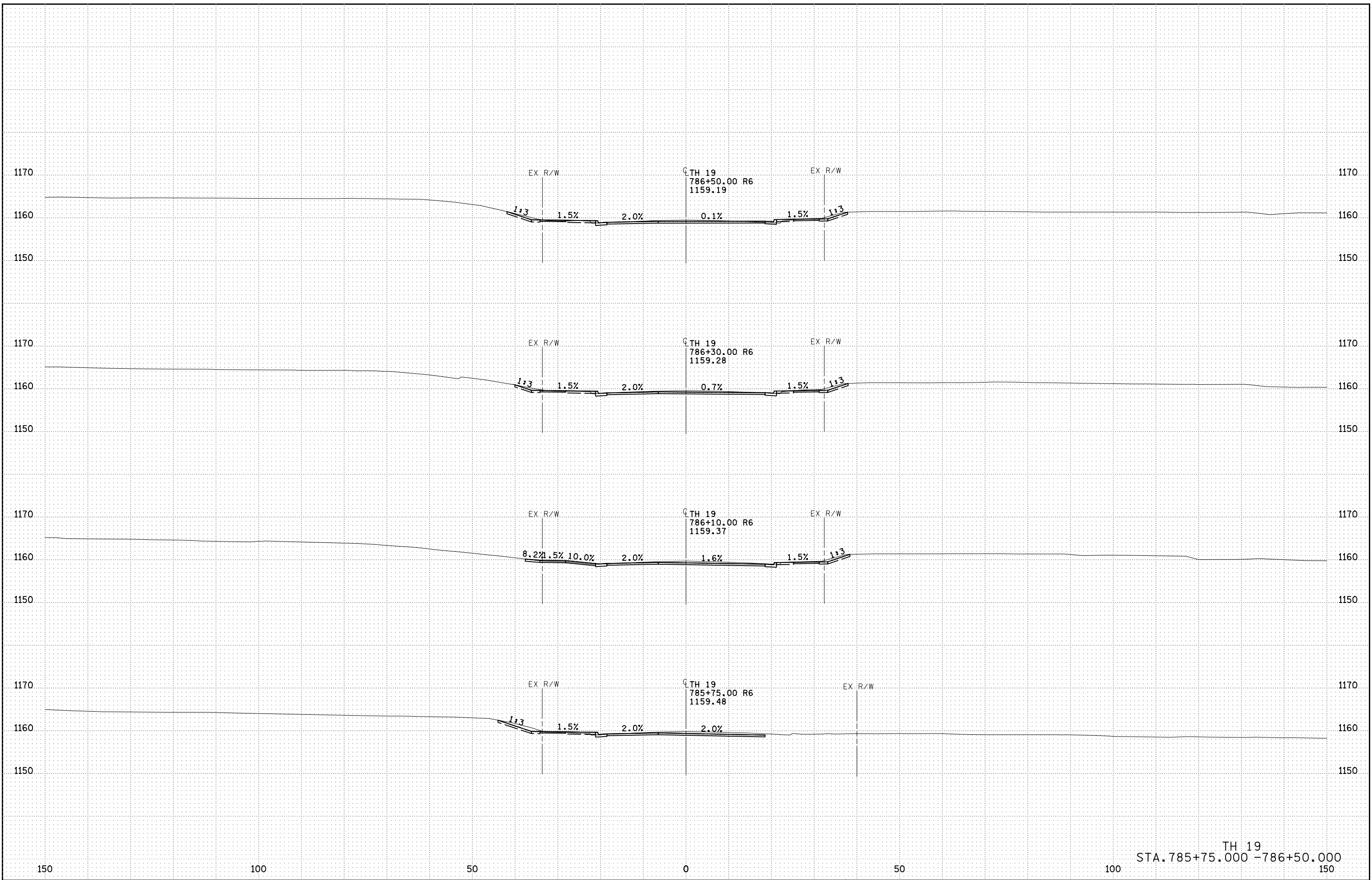


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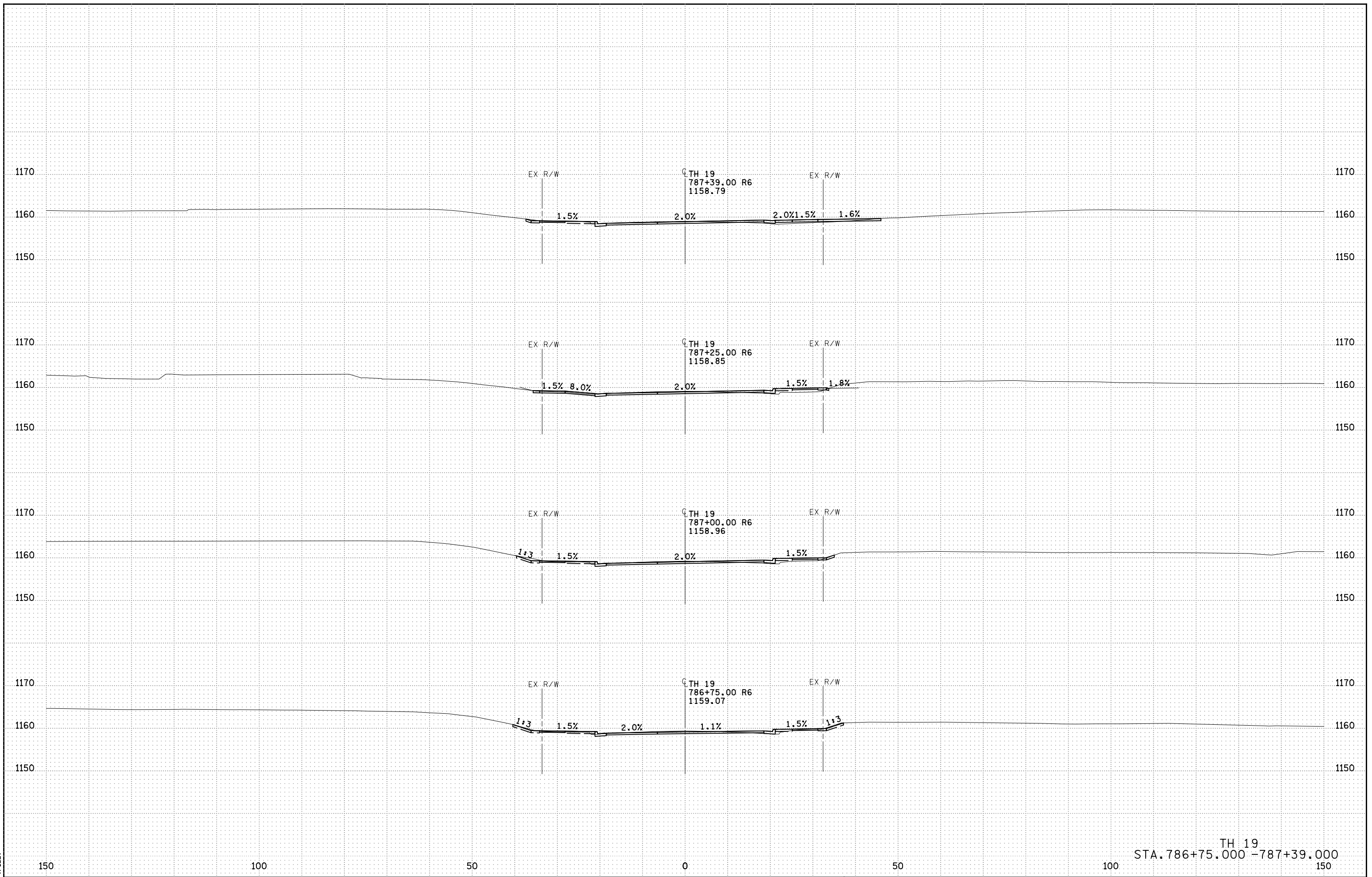
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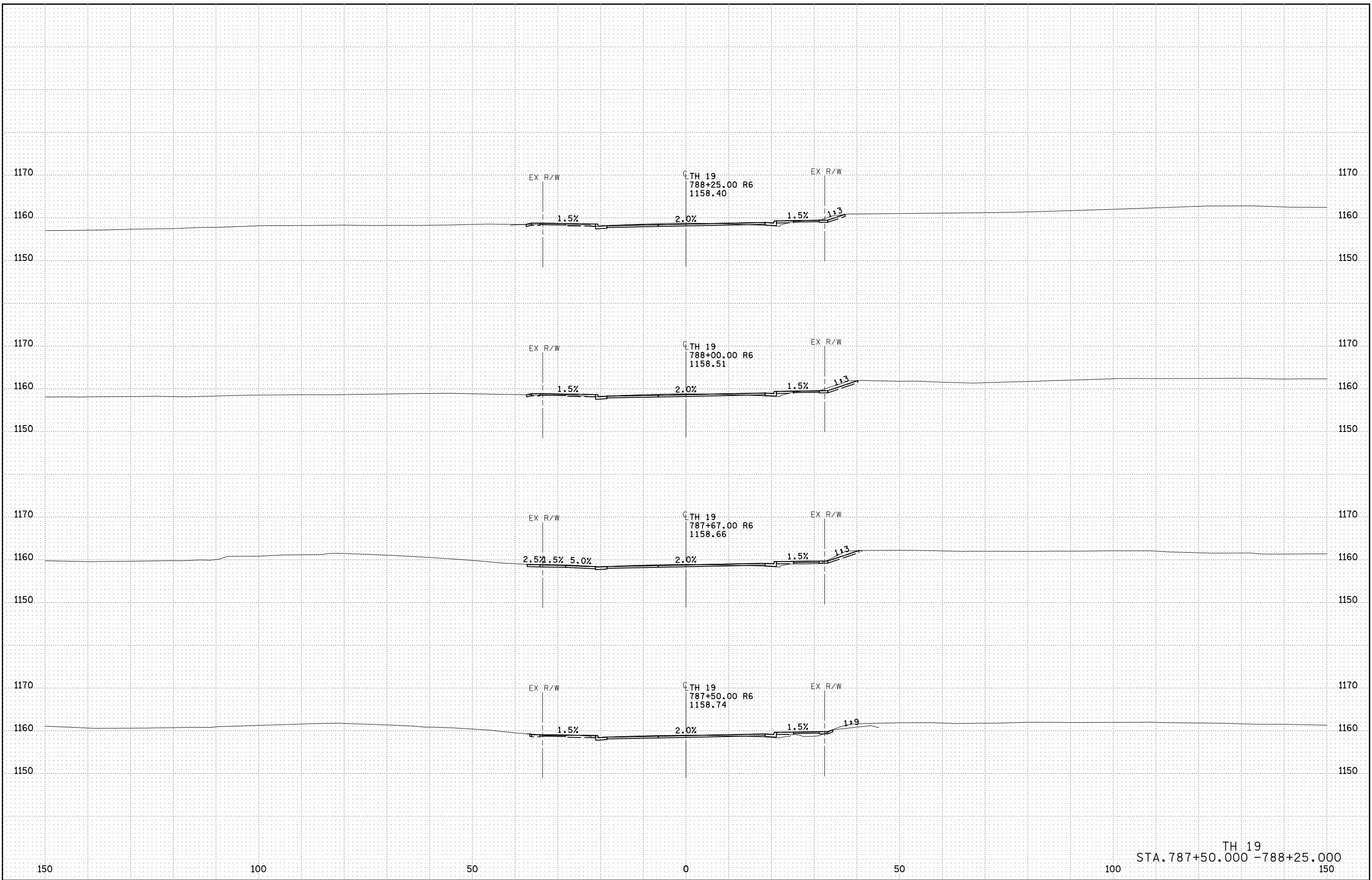
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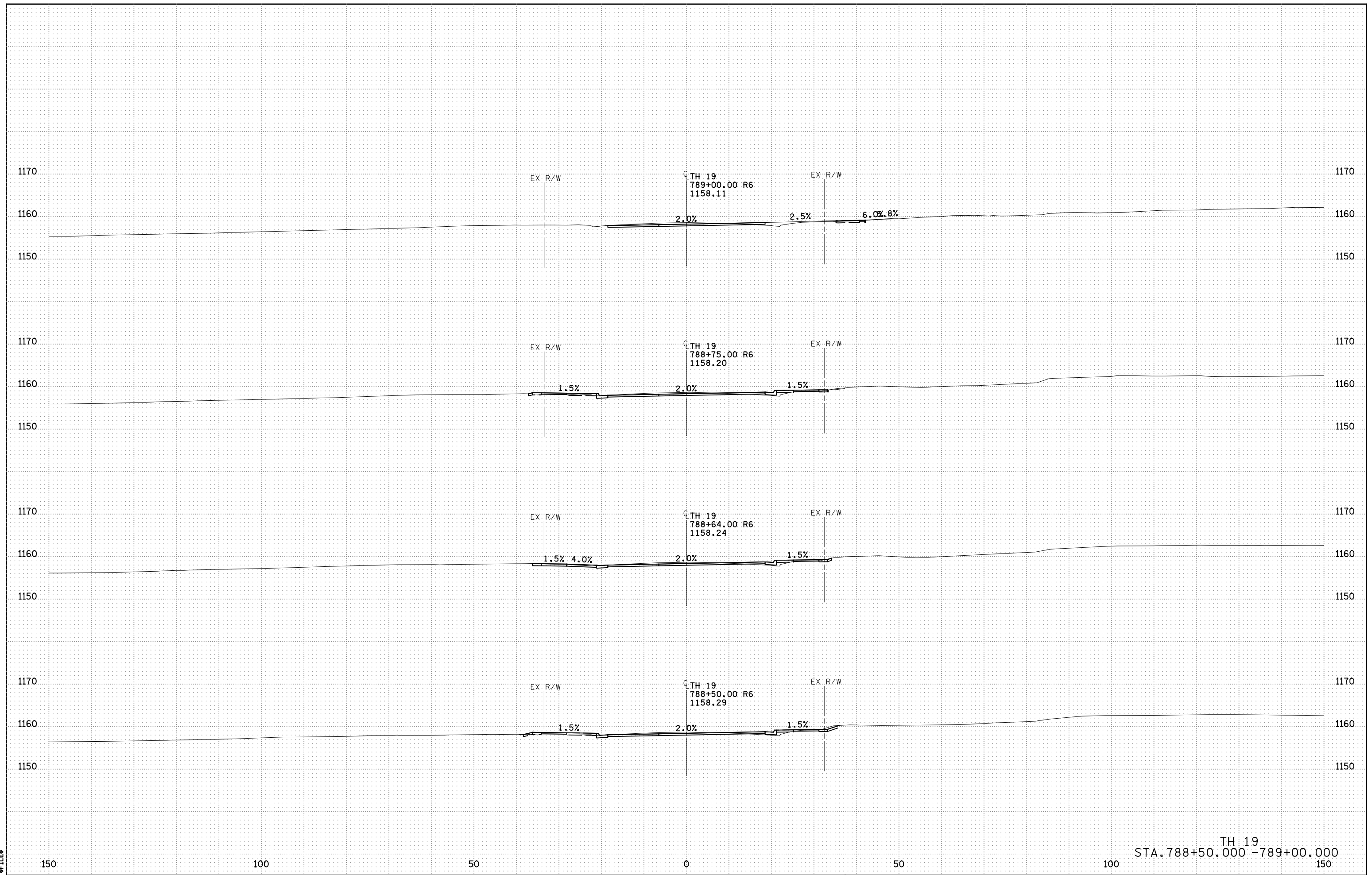
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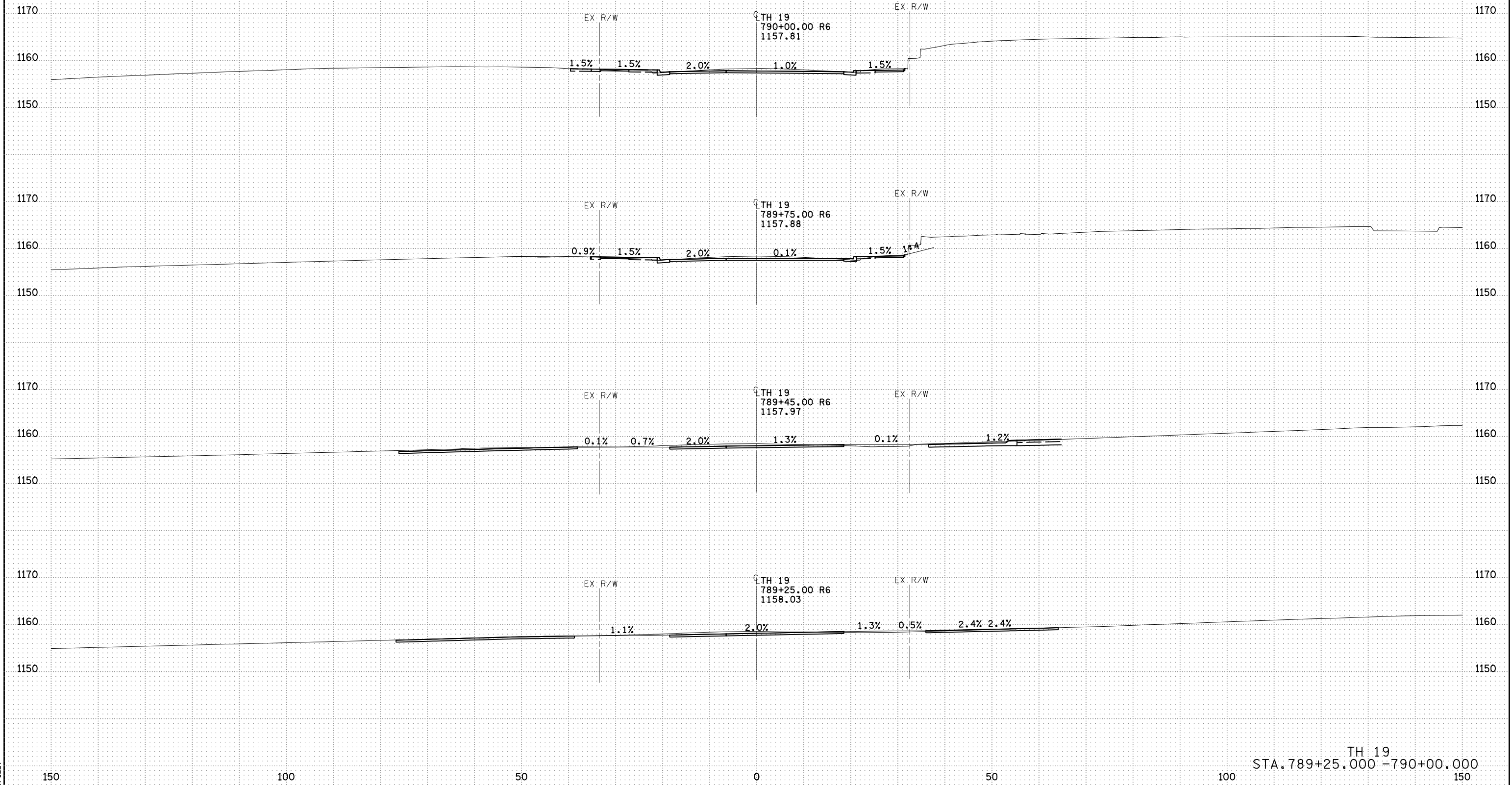
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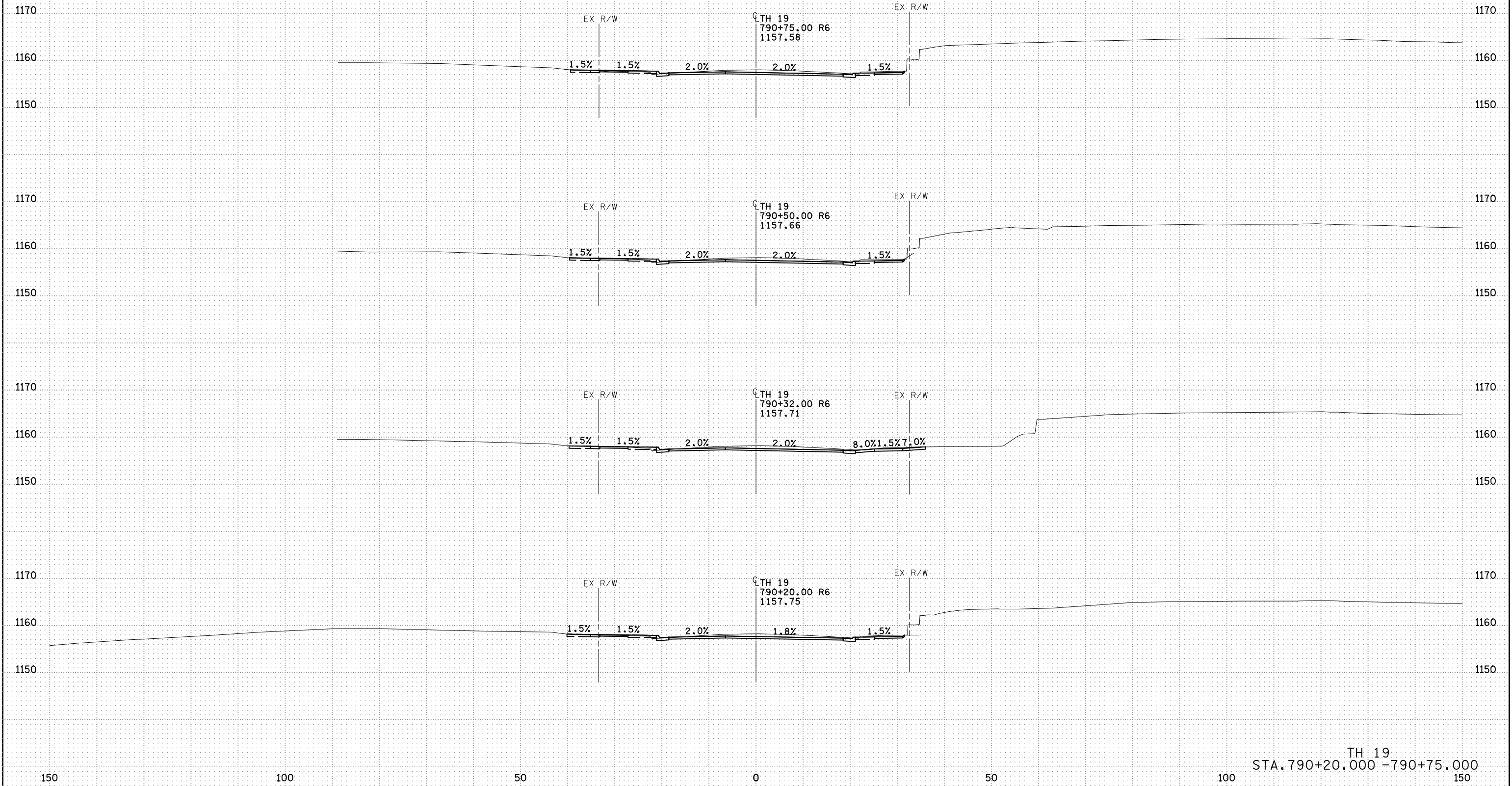
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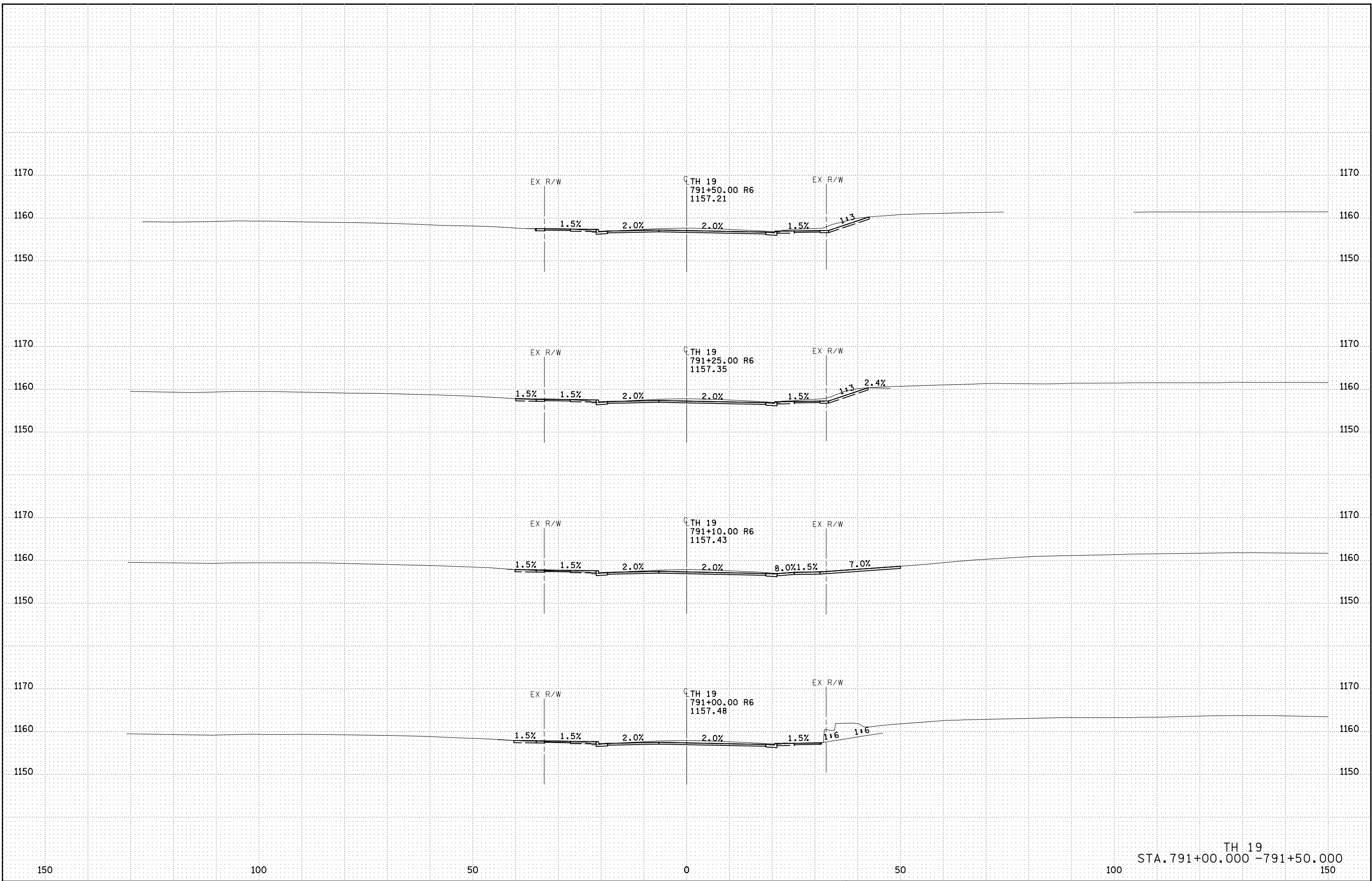
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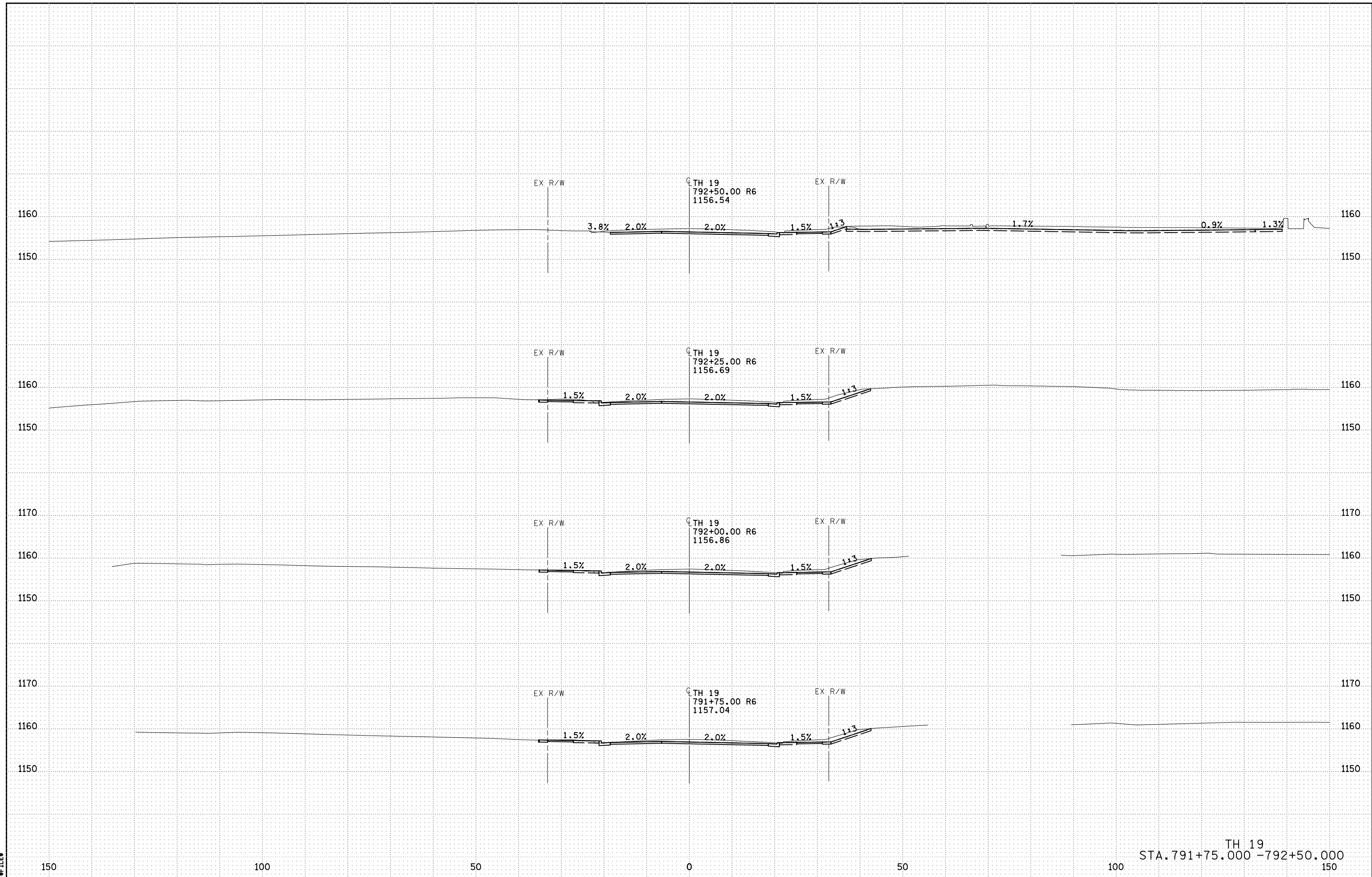
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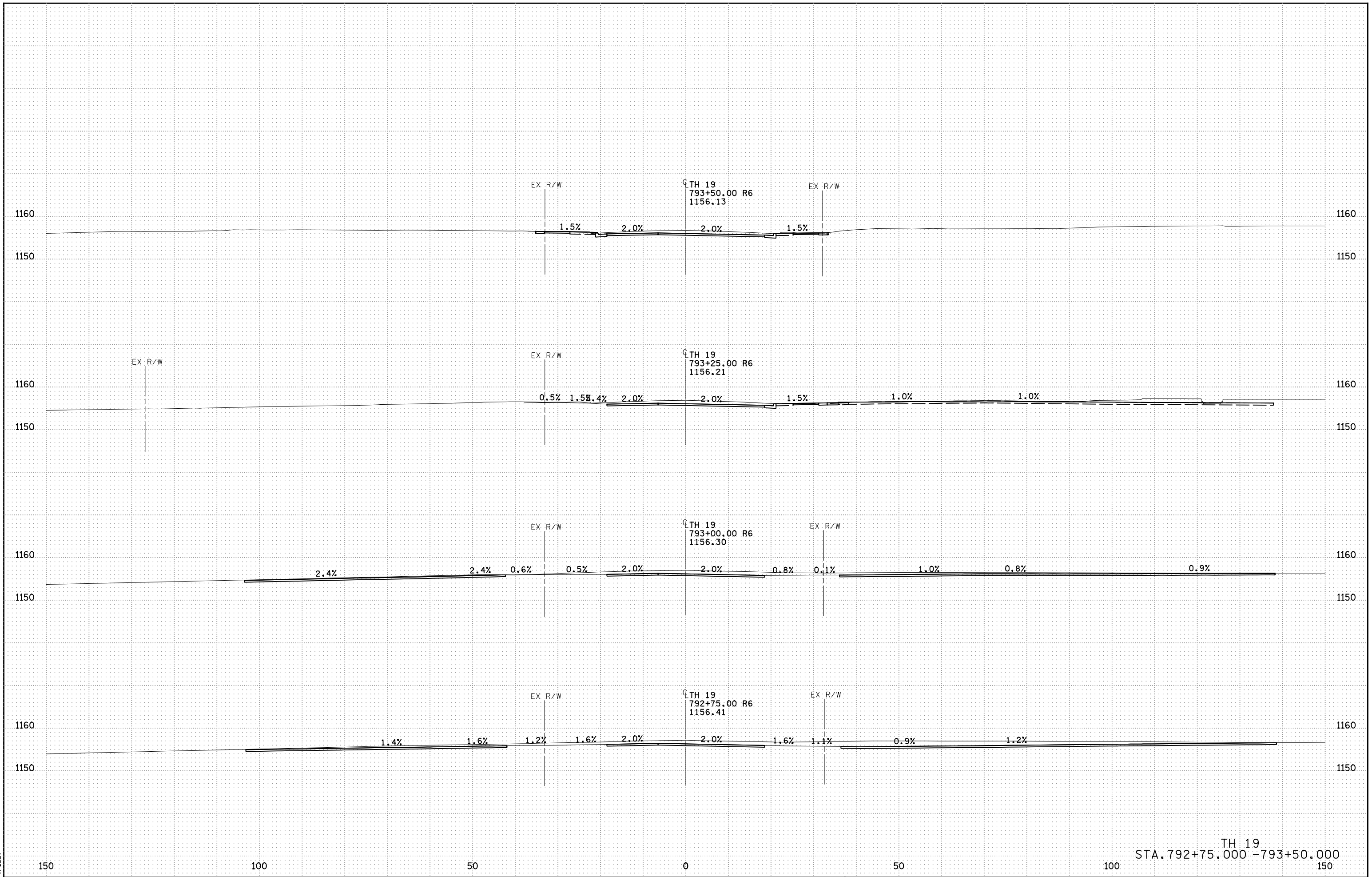
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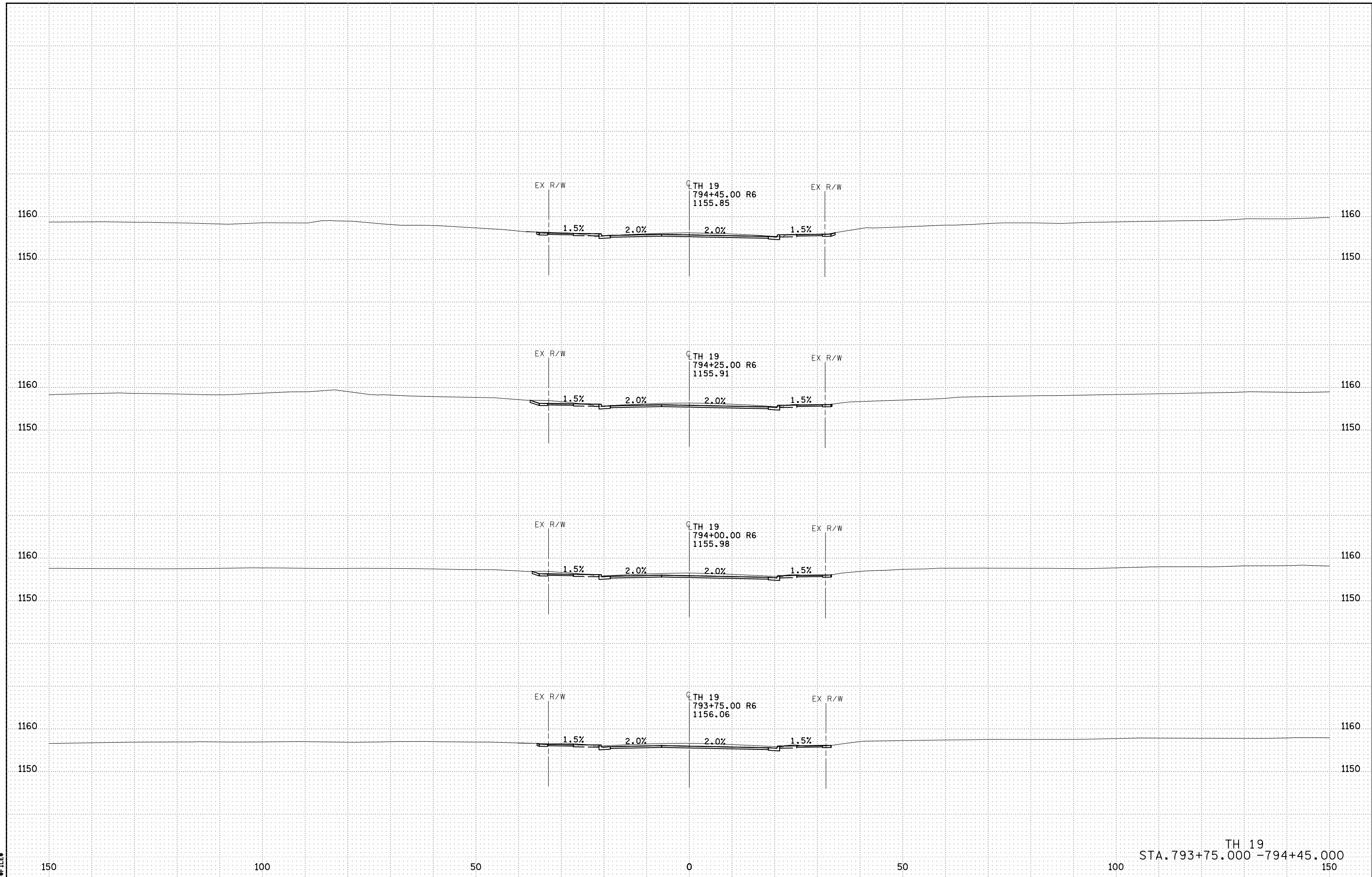
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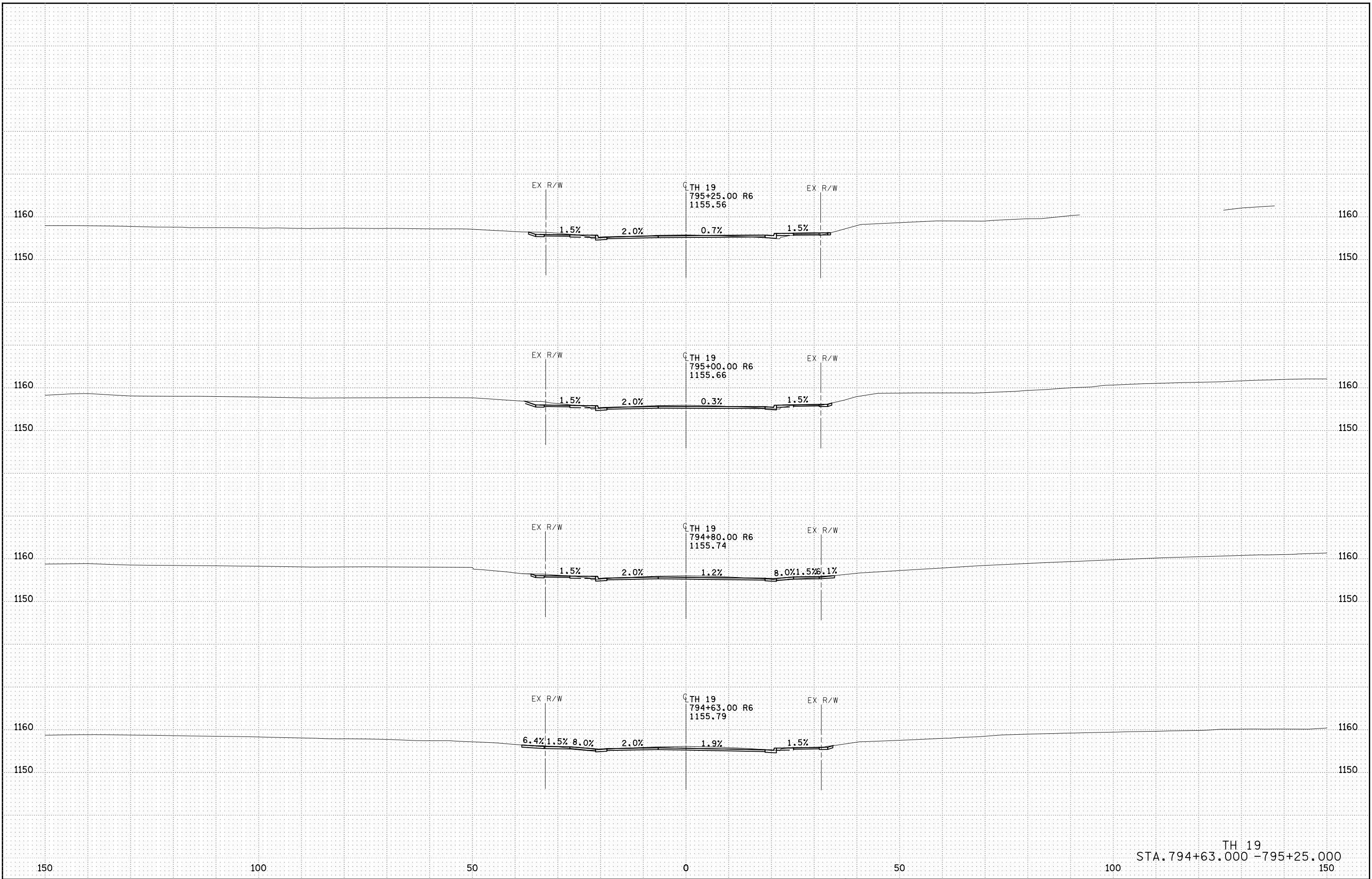
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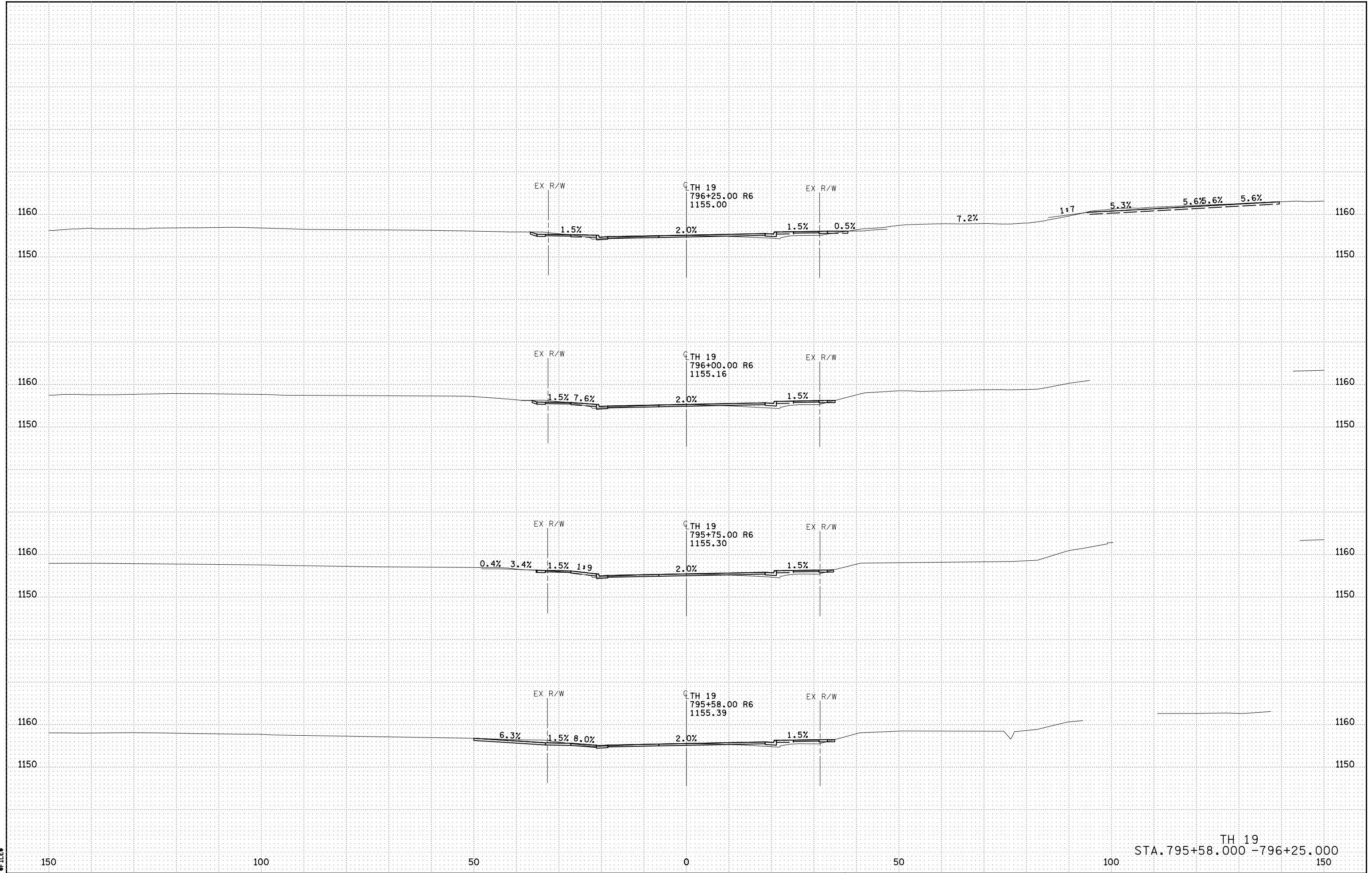
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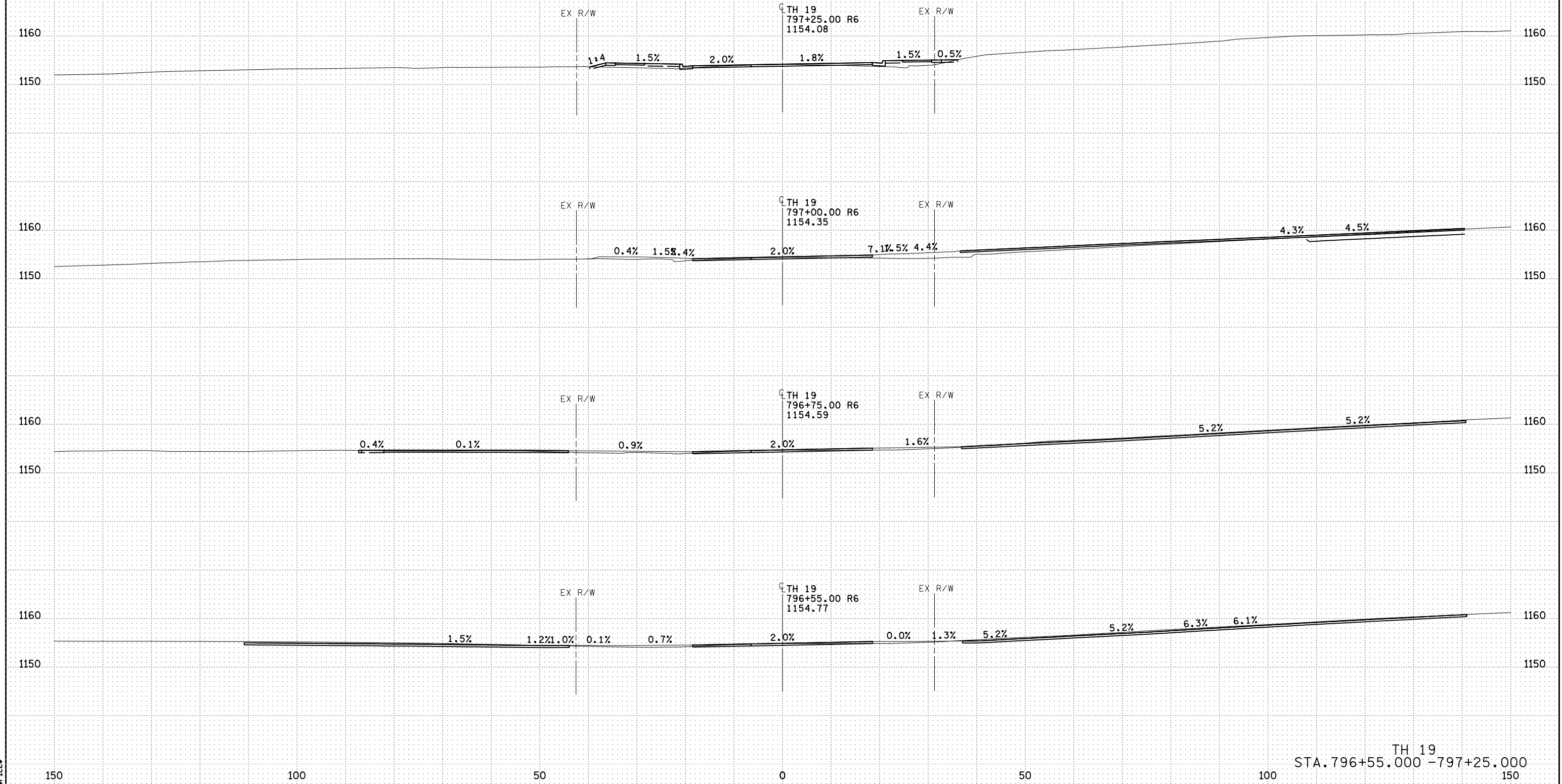
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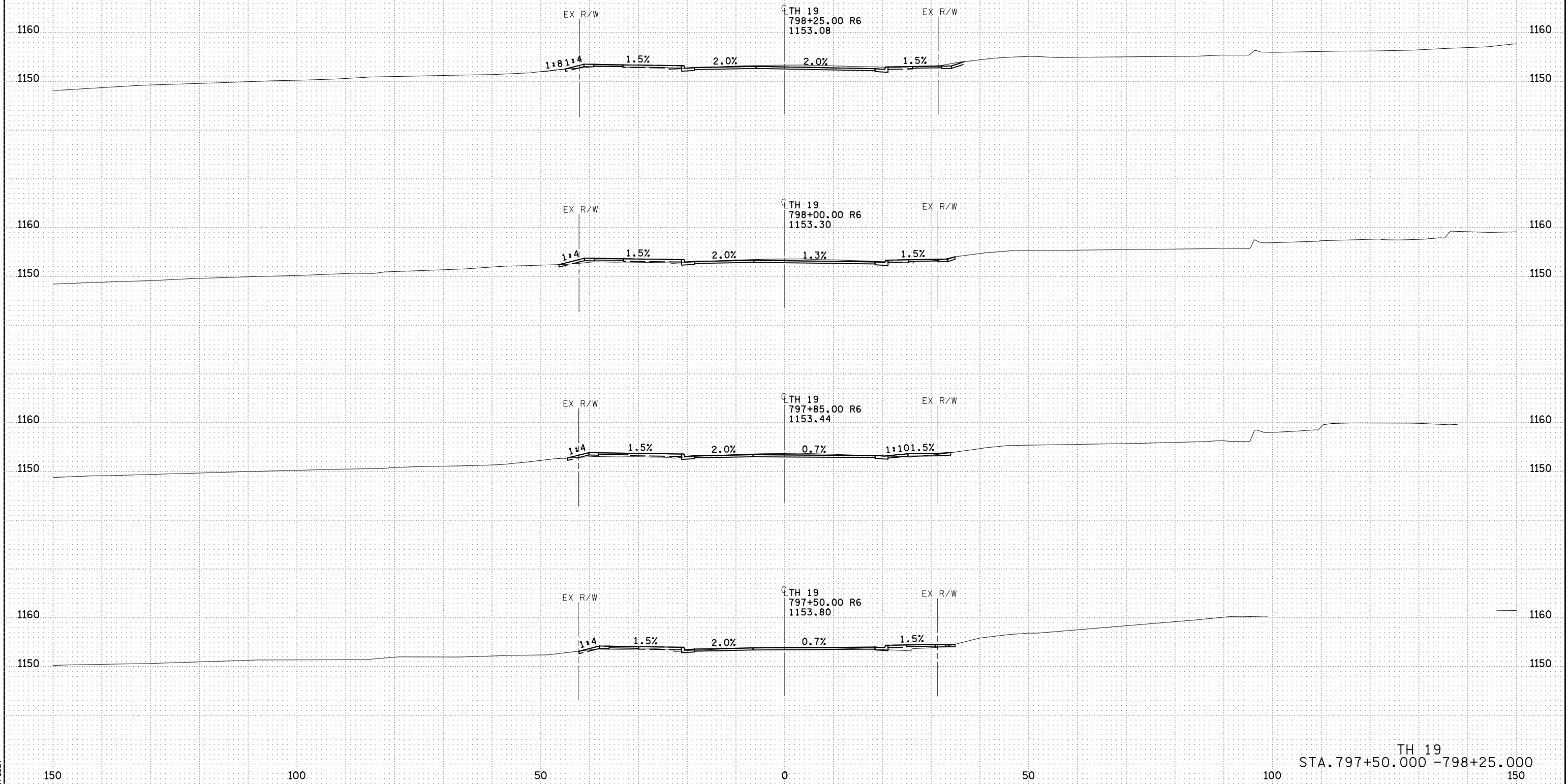
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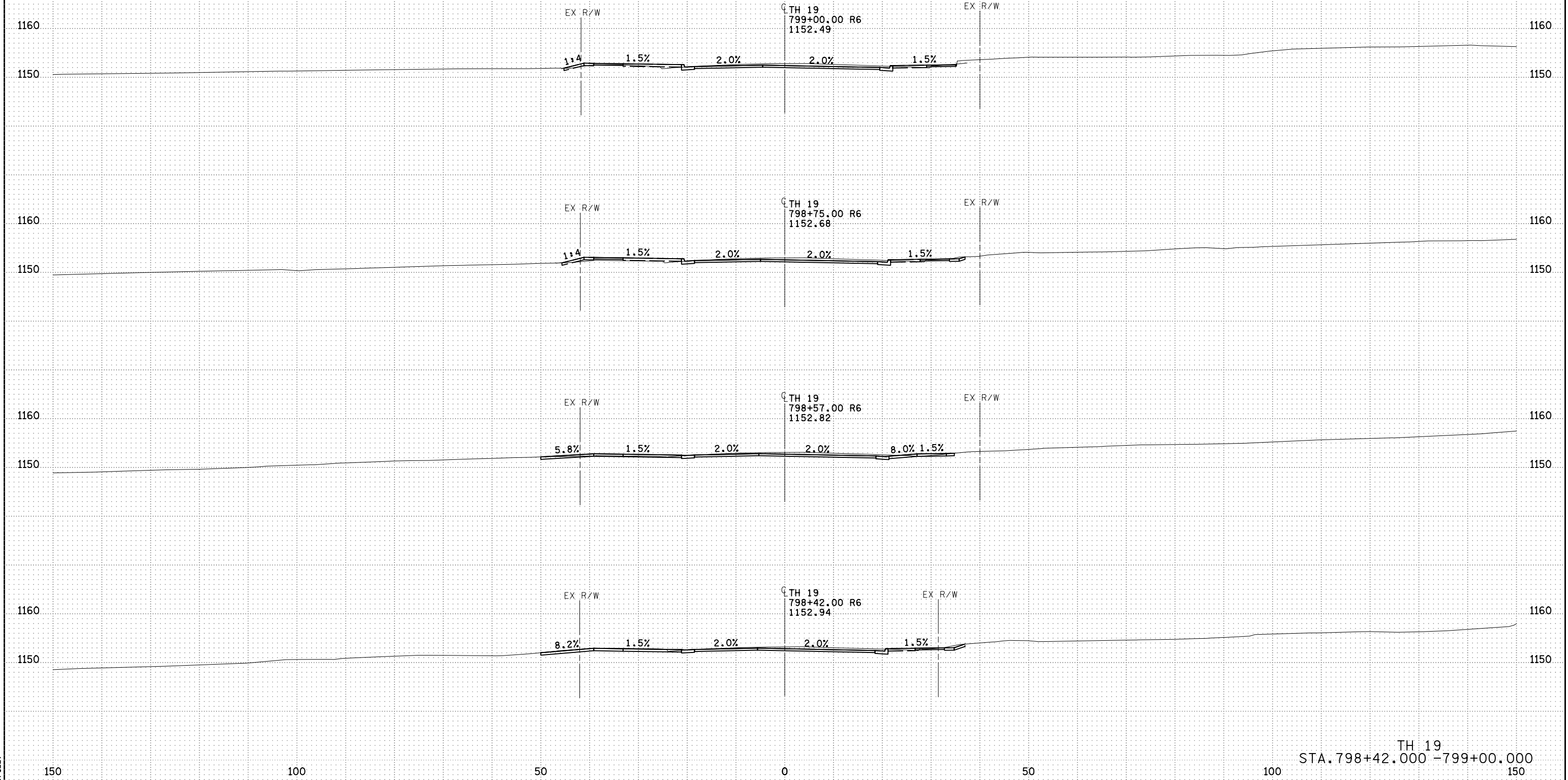
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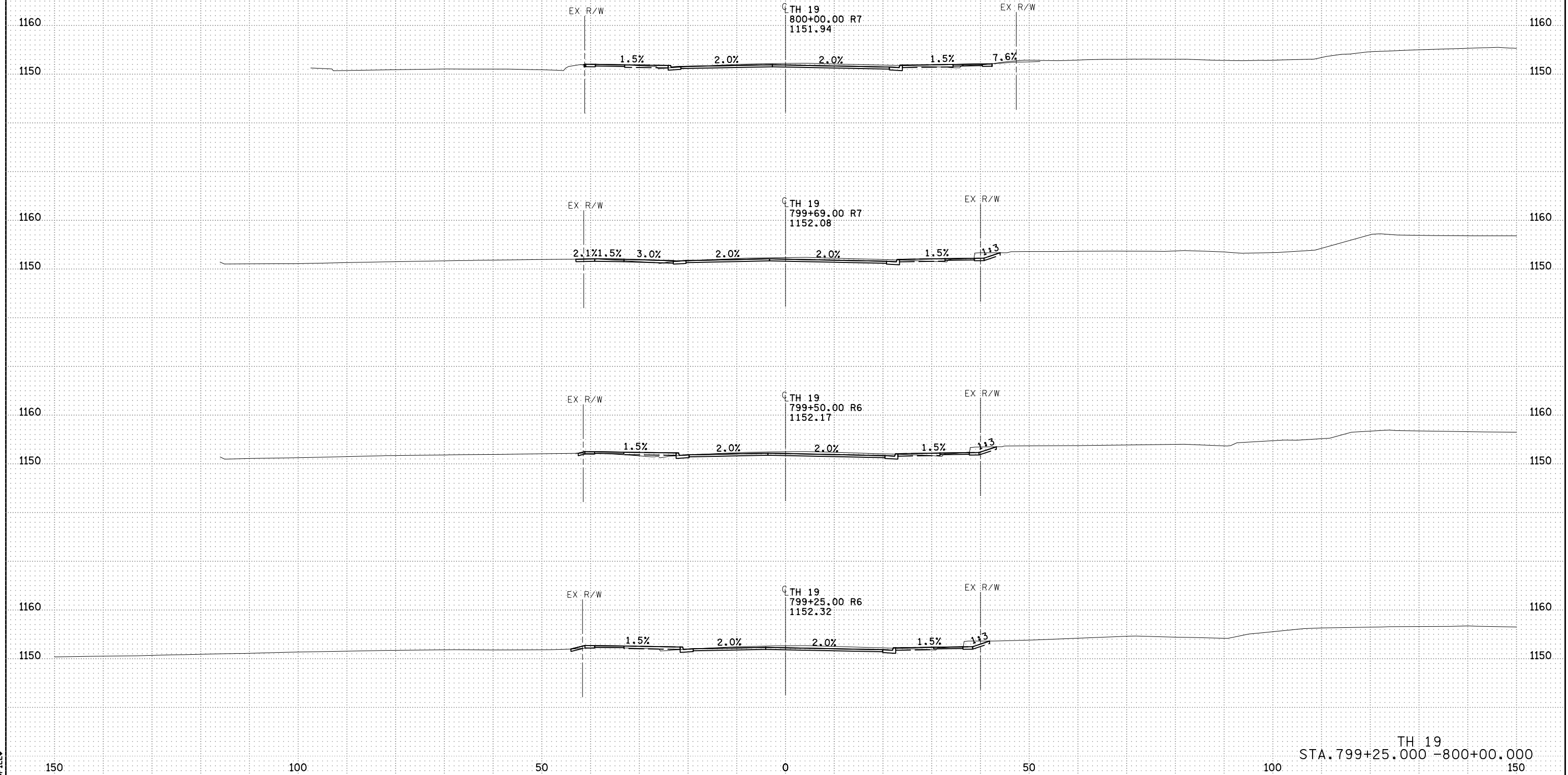
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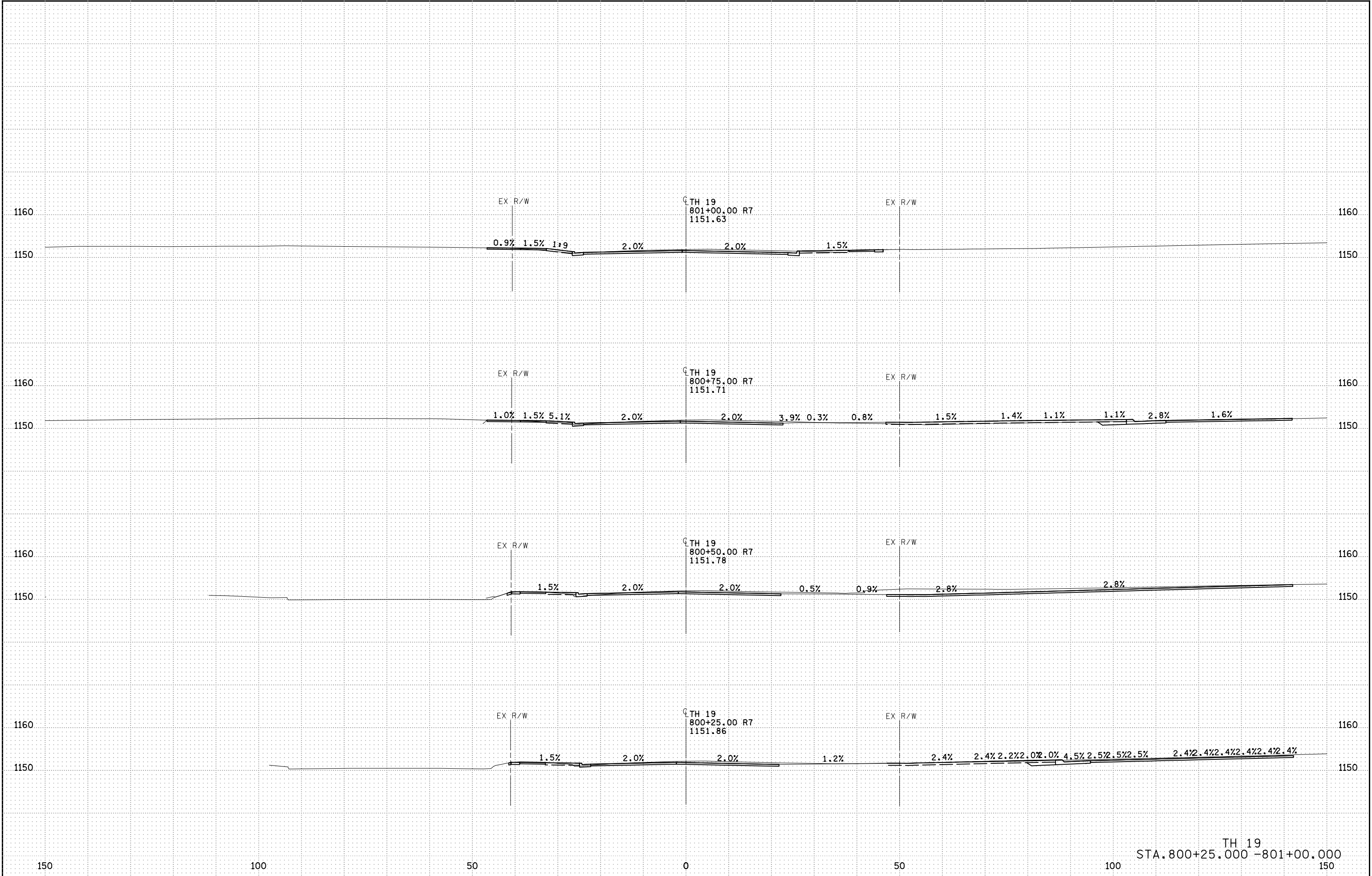
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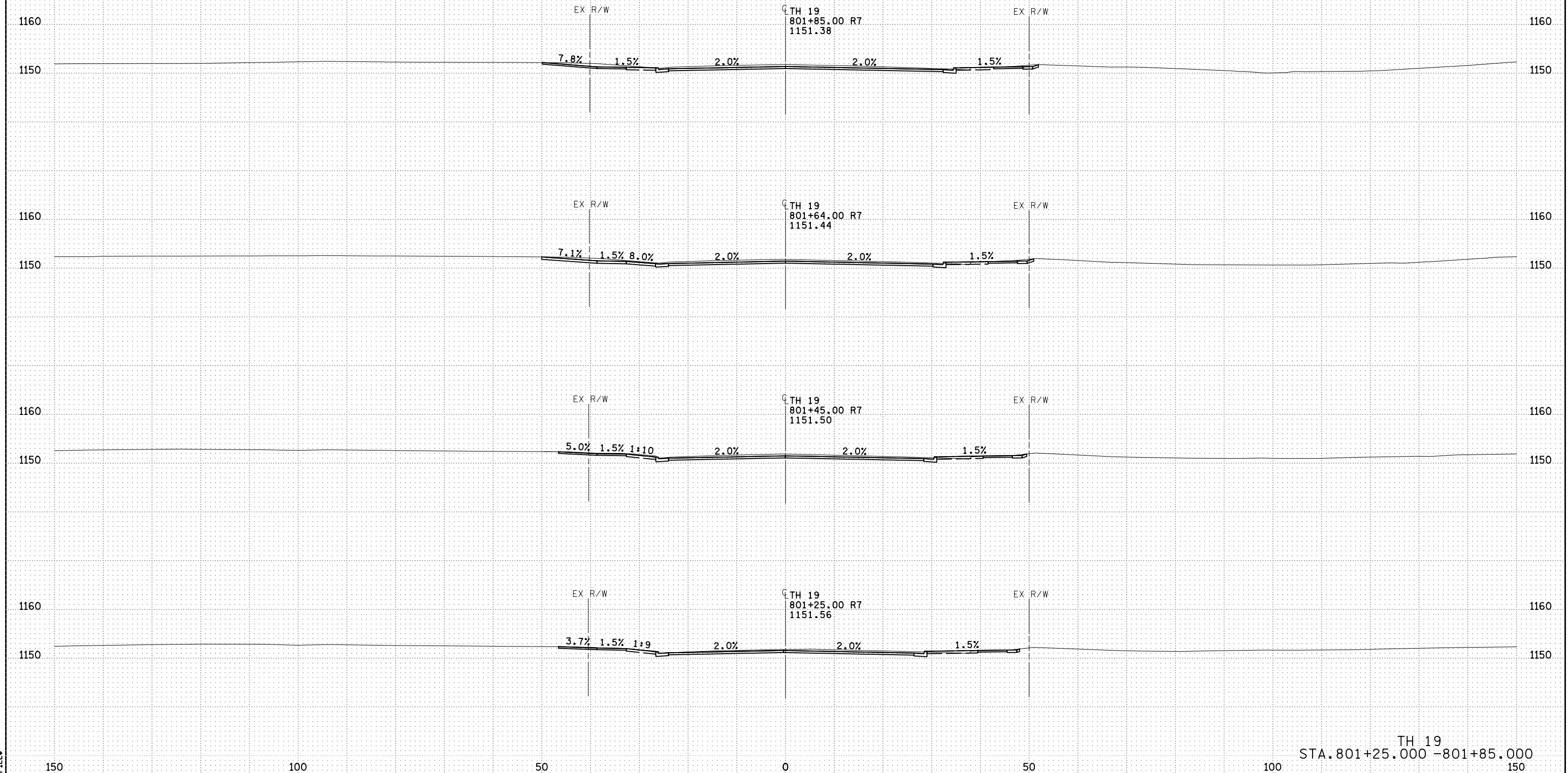
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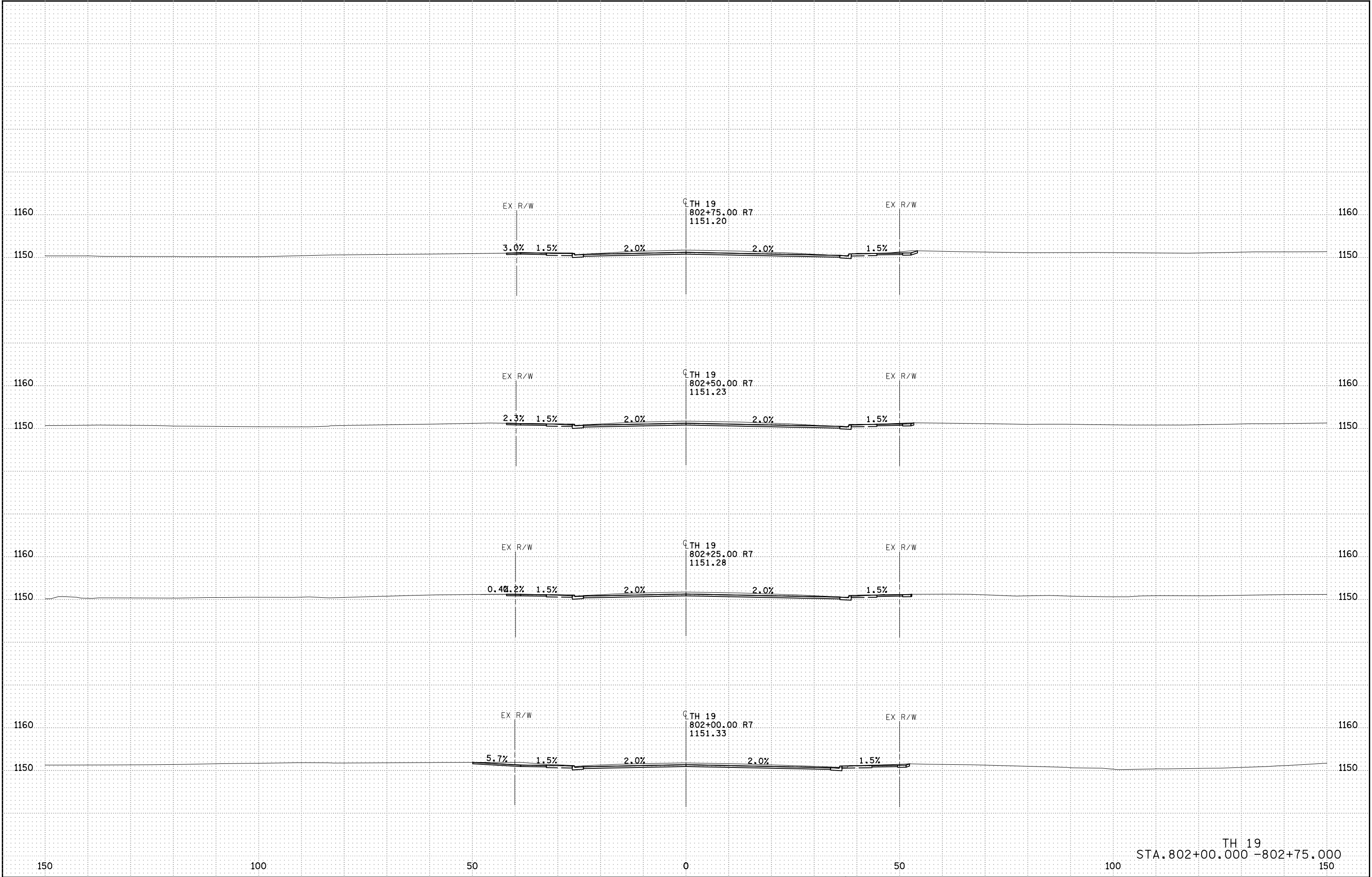
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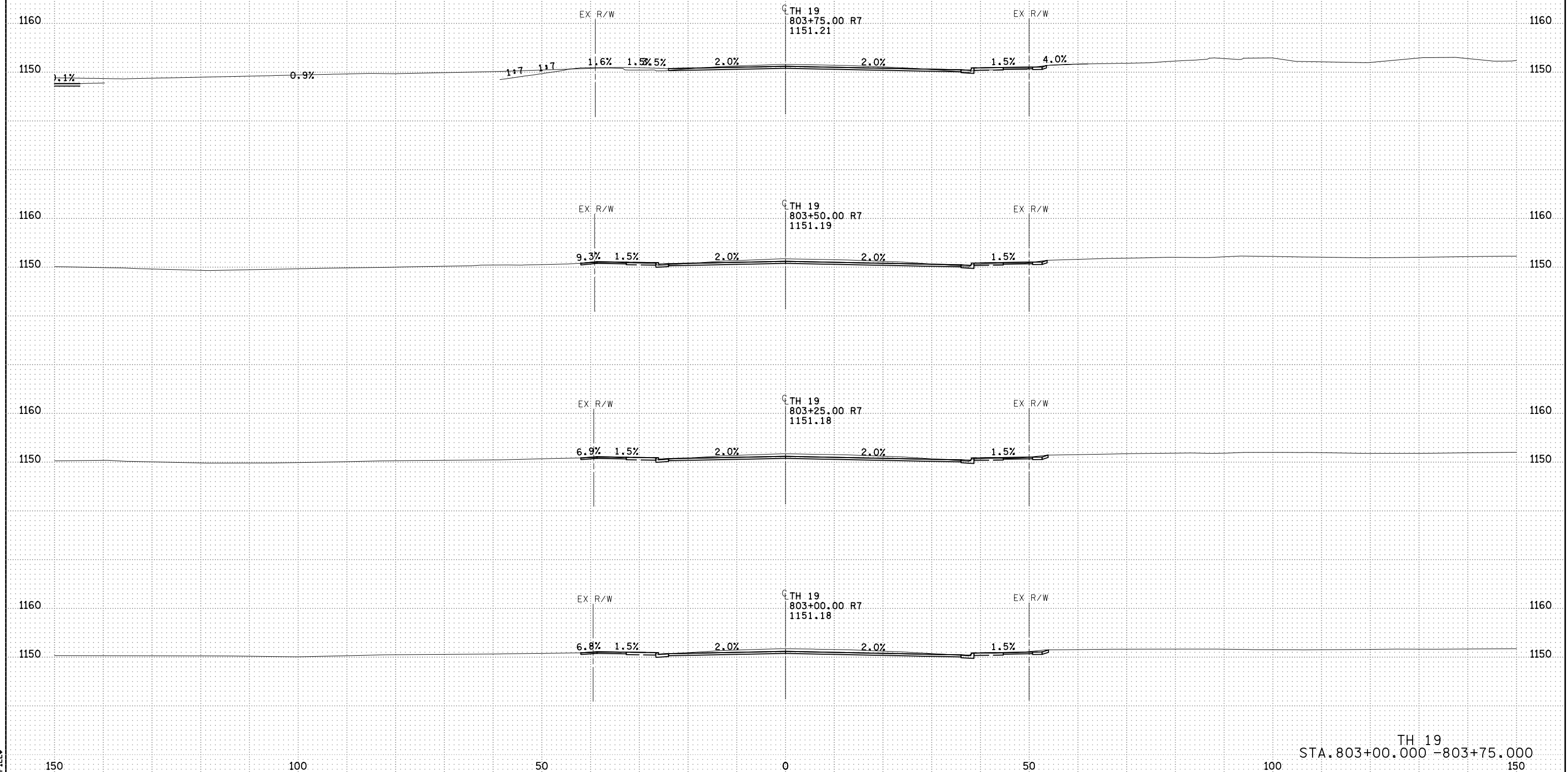
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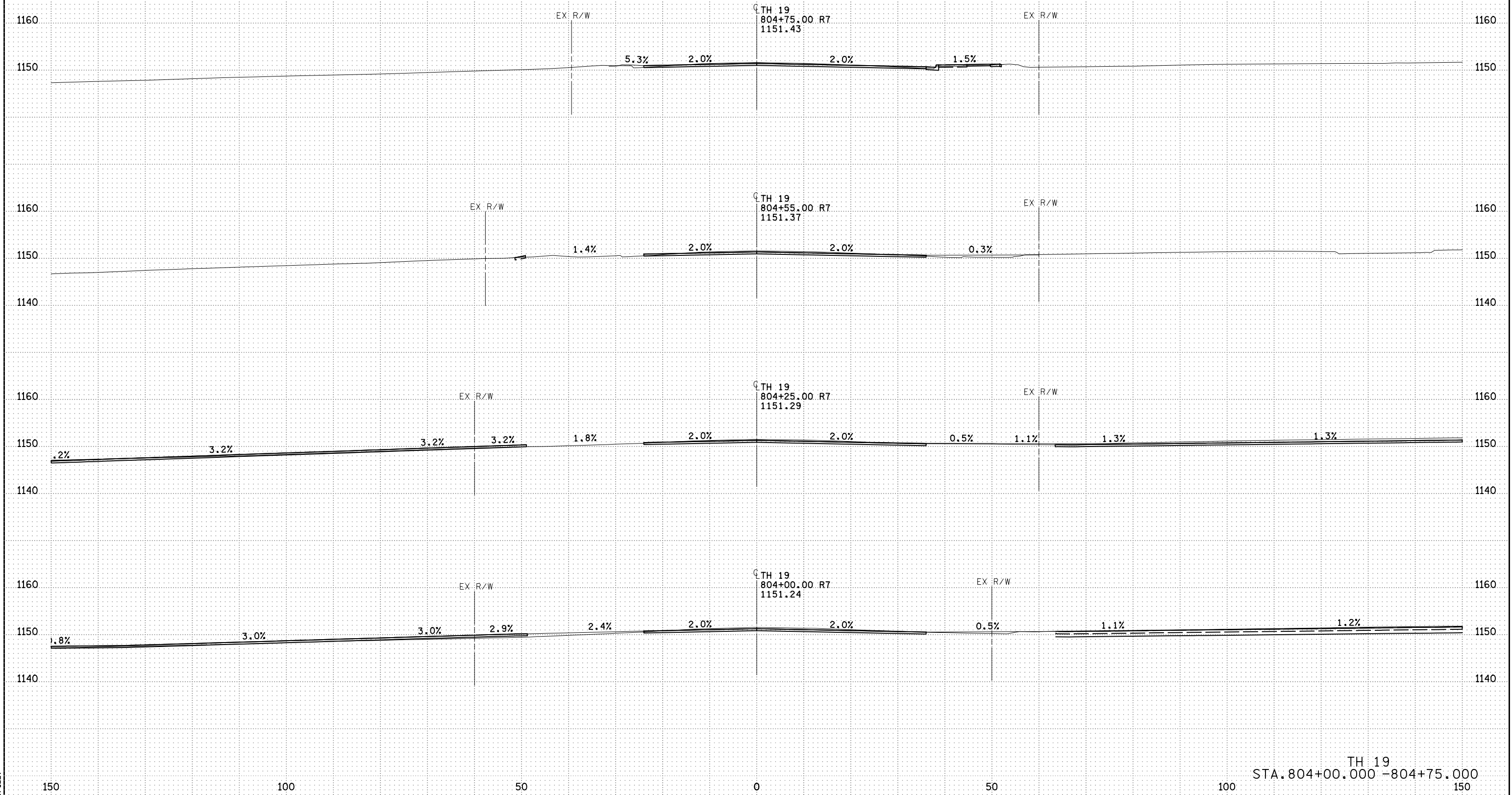
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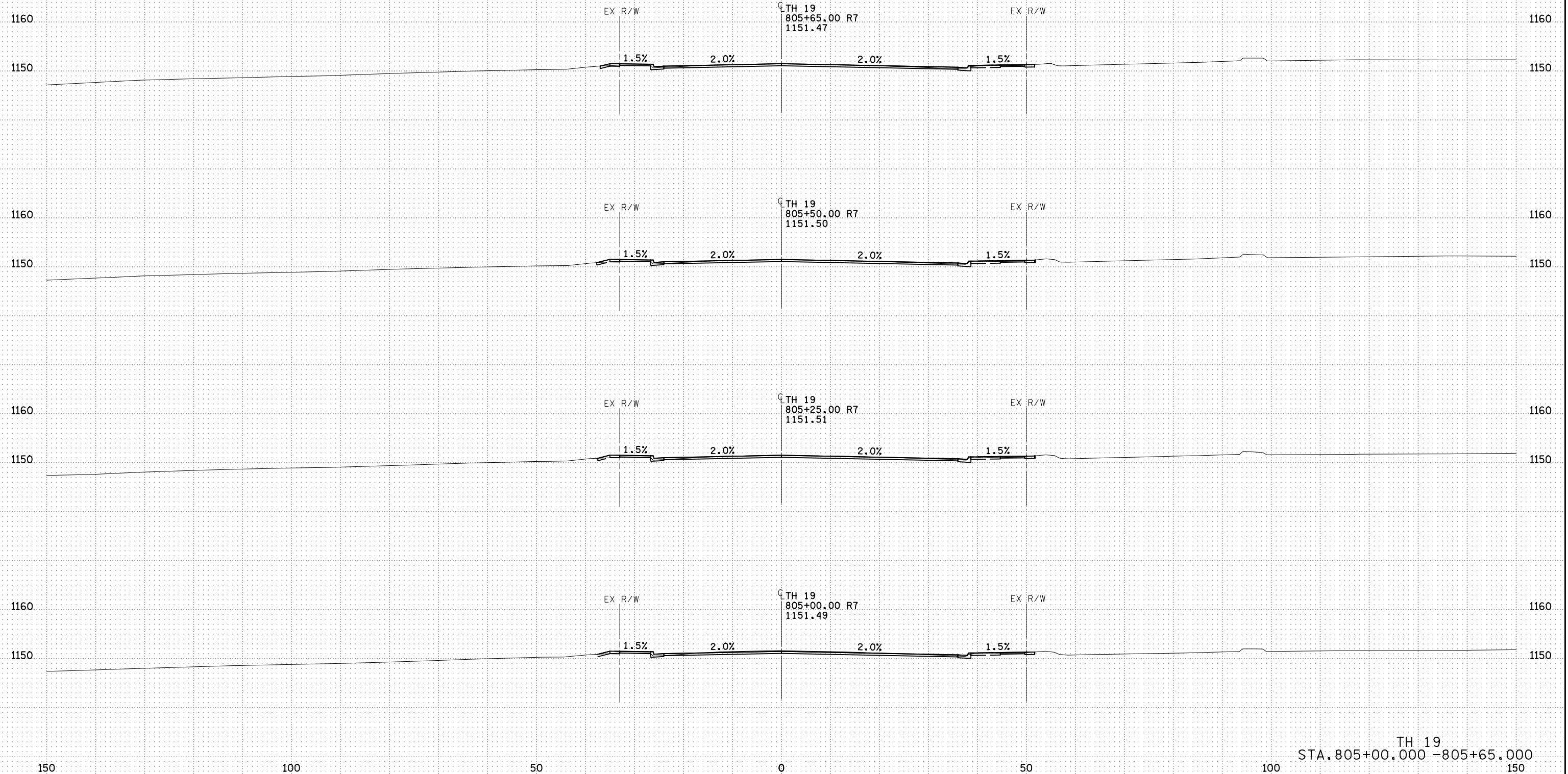
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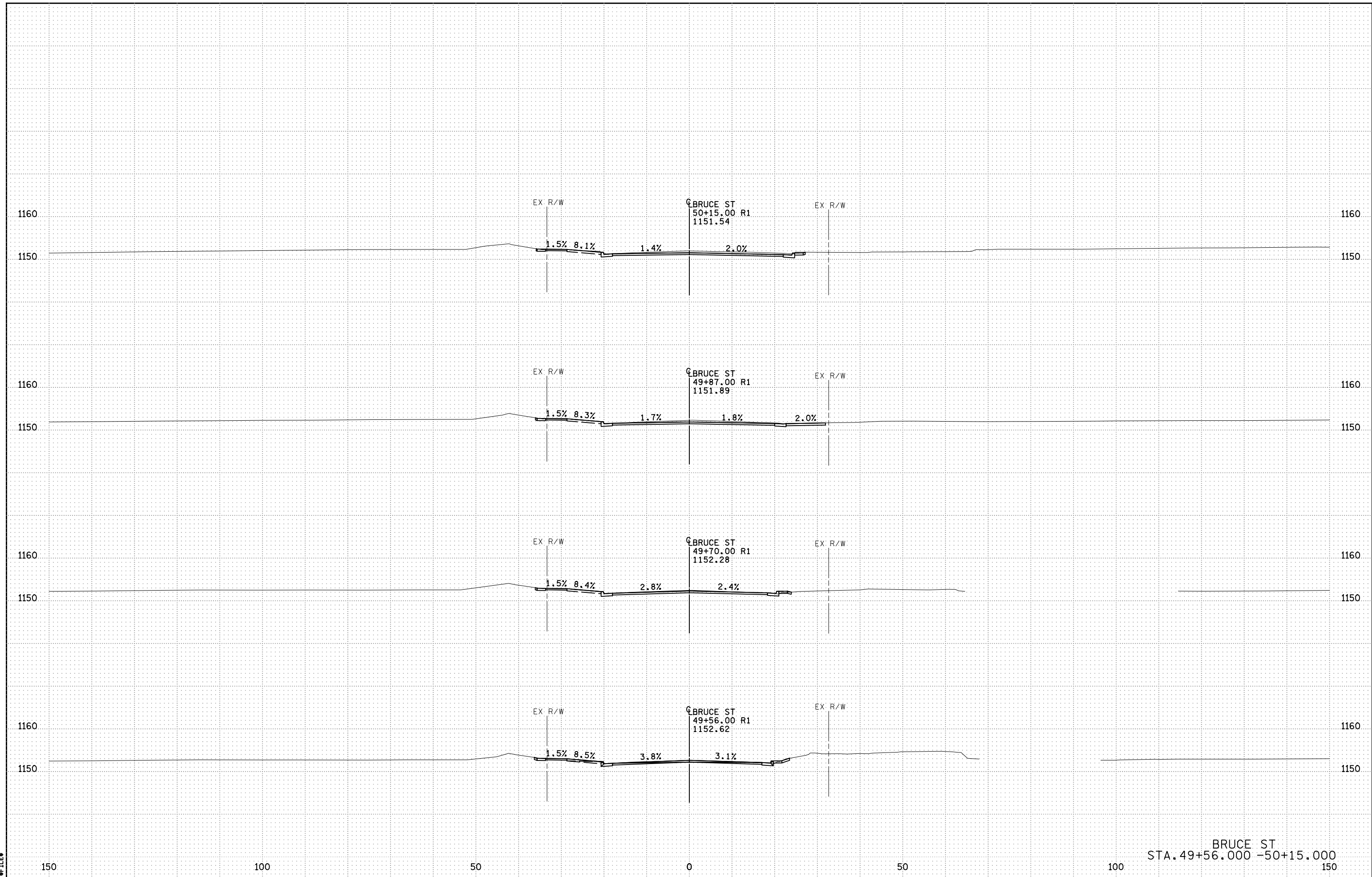
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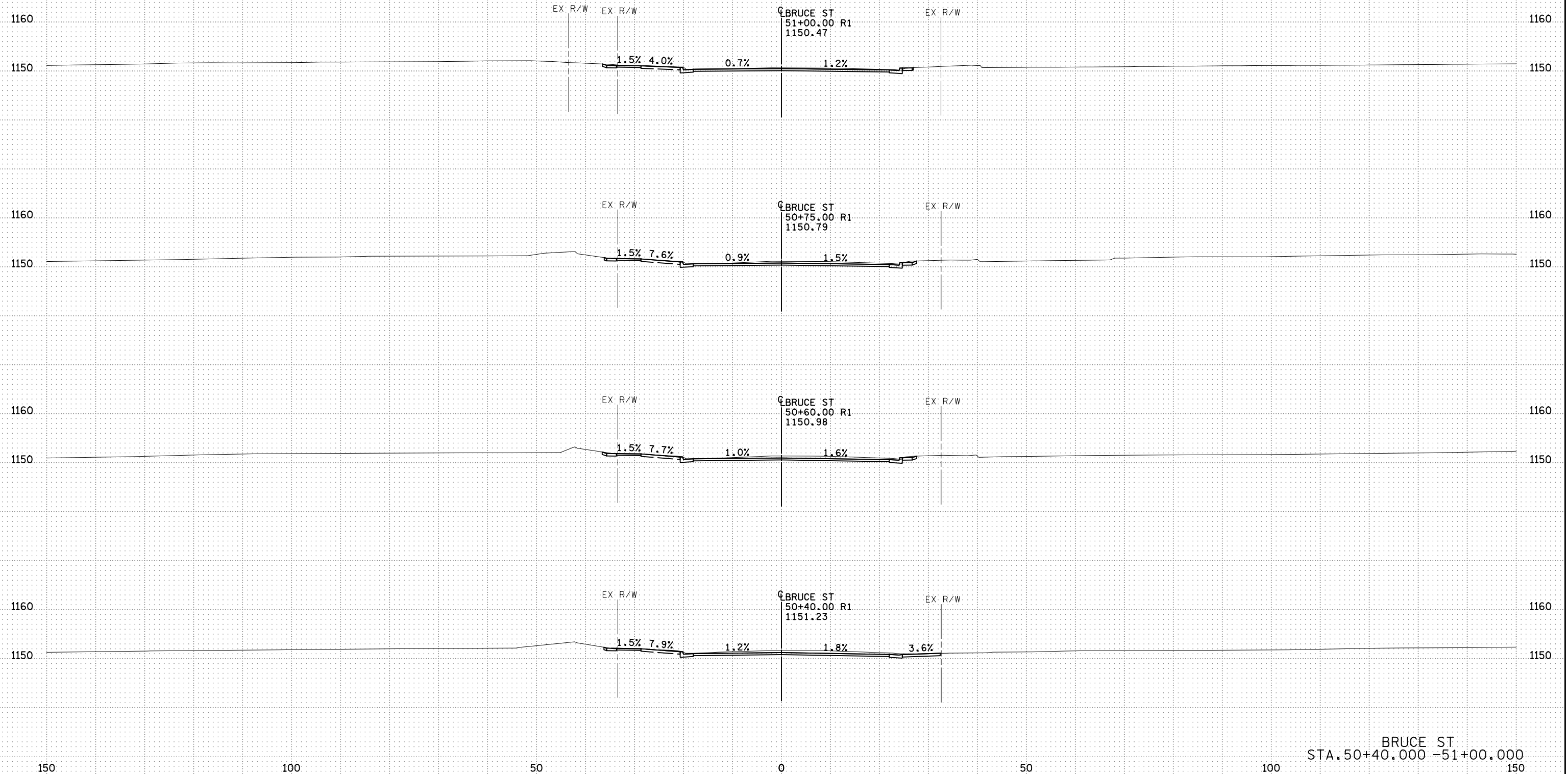


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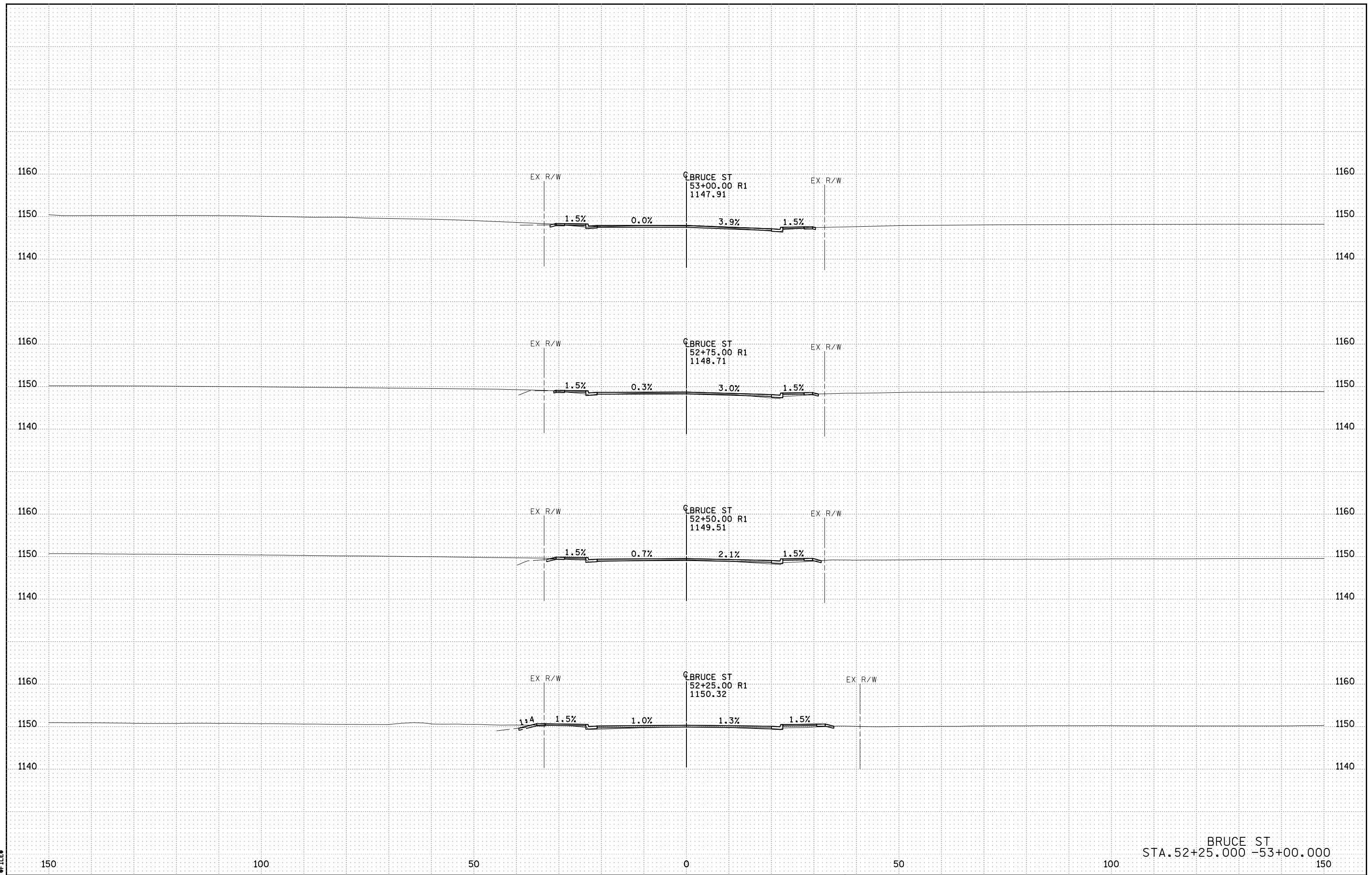
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STA. 49+56.000 - 50+15.000

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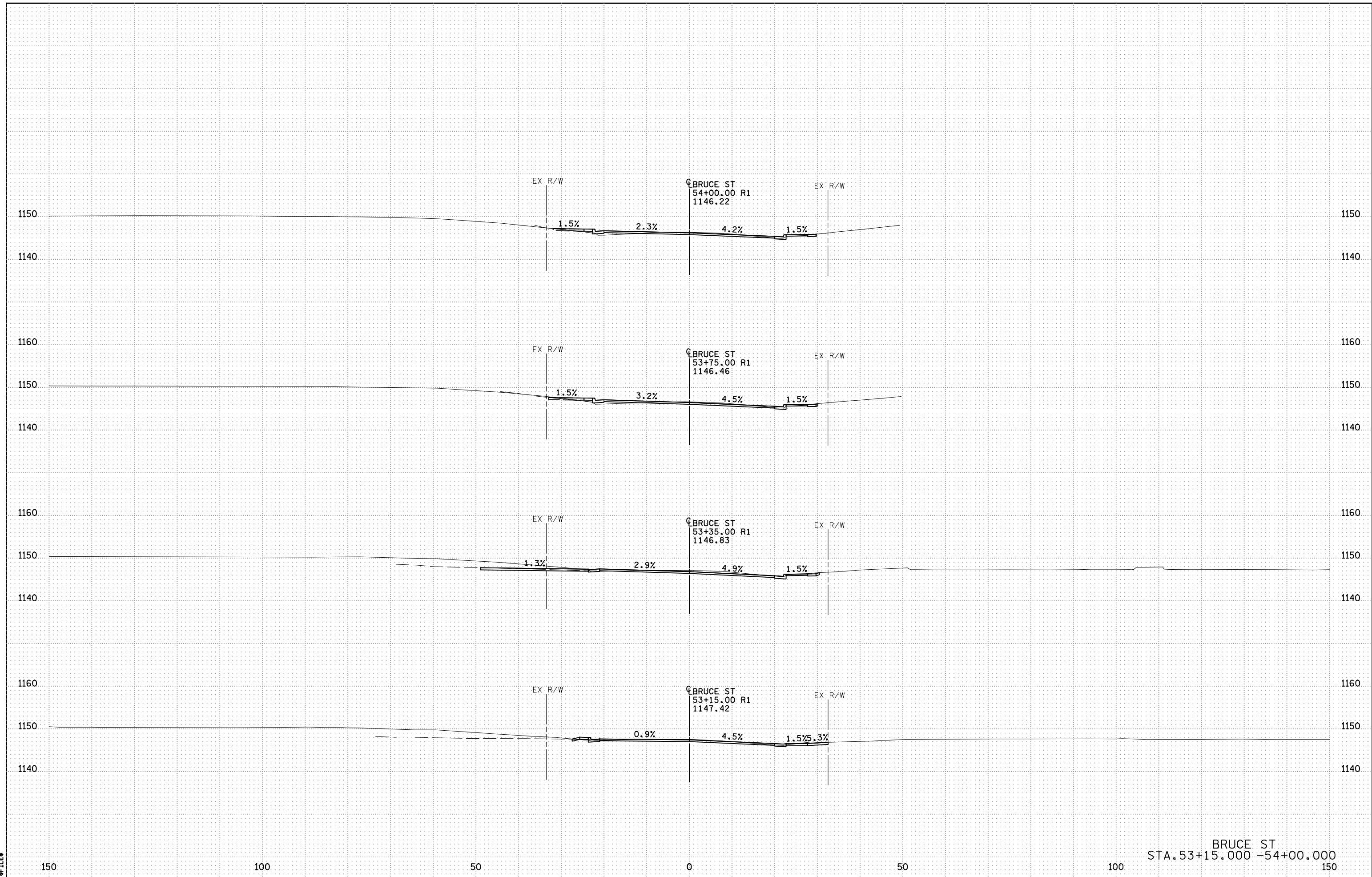
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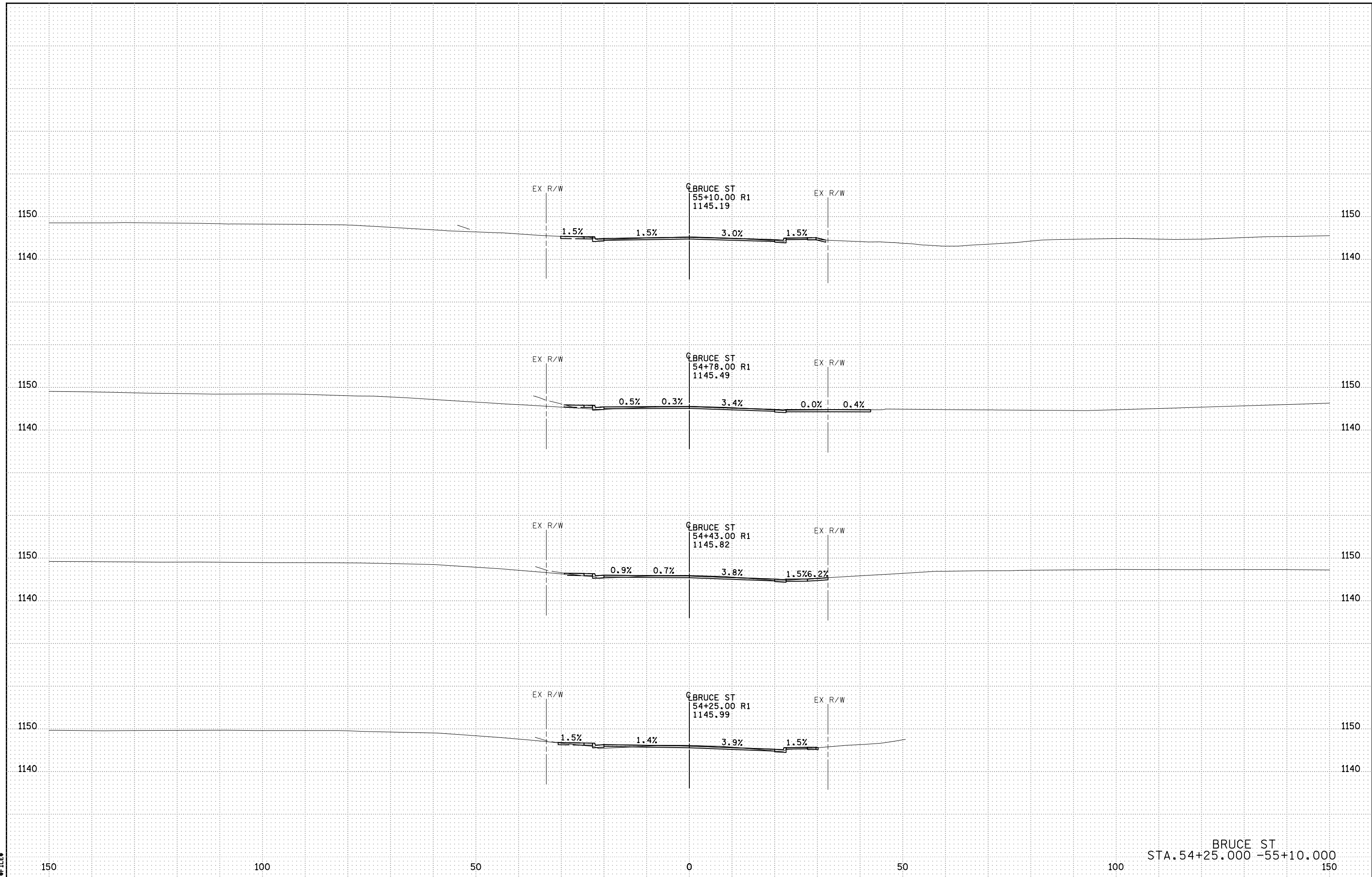
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11/14/2022
AFLEA



BRUCE ST
STA. 53+15.000 - 54+00.000

5:01:05 PM
11/14/2022
RFILE



5:01:07 PM
11/14/2022
RFILE

