

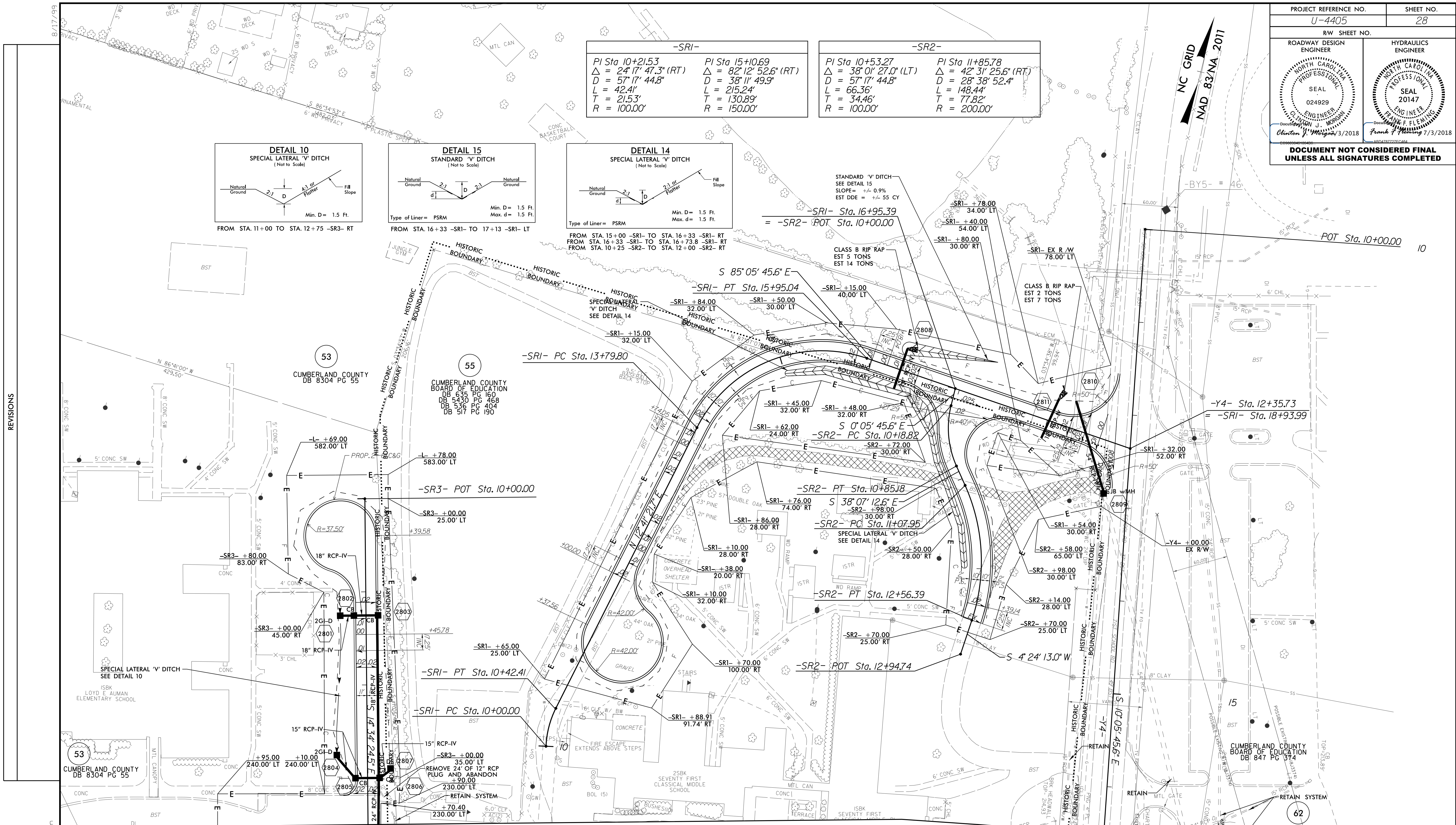
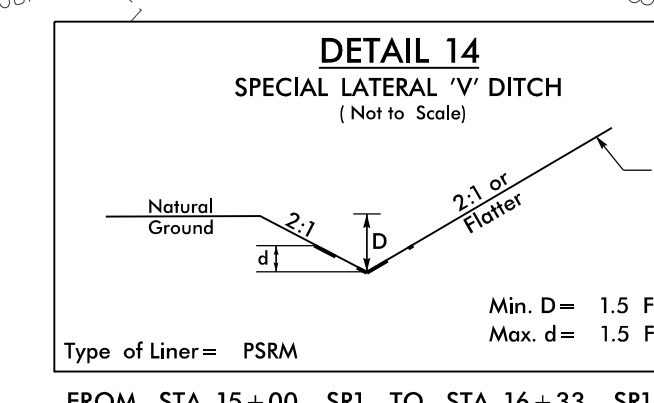
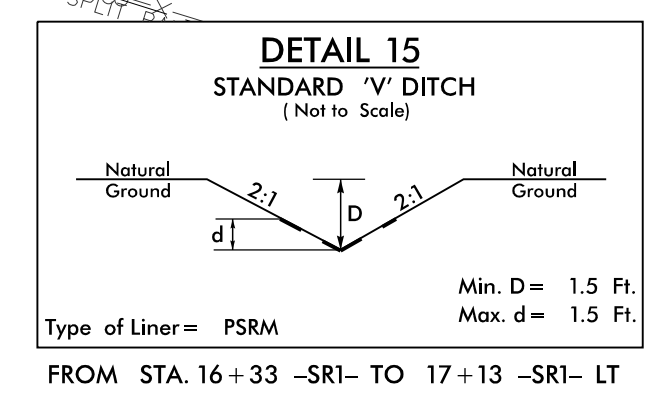
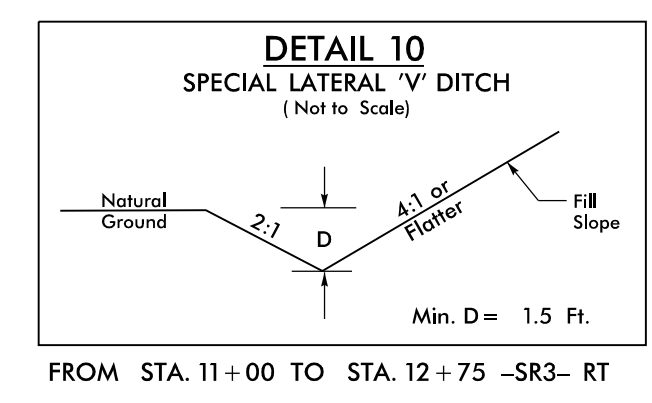
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and sealed by the individuals whose names and license
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shall not be considered a certified document.**

PROJECT REFERENCE NO. U-4405		SHEET NO. 28	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

-SRI-		-SR2-	
PI Sta 10+21.53	PI Sta 15+10.69	PI Sta 10+53.27	PI Sta 11+85.78
$\Delta = 24' 17" 47.3" (RT)$	$\Delta = 82' 12" 52.6" (RT)$	$\Delta = 38' 01" 27.0" (LT)$	$\Delta = 42' 31" 25.6" (RT)$
D = 57' 17" 44.8"	D = 38' 11" 49.9"	D = 57' 17" 44.8"	D = 28' 38" 52.4"
L = 42.41'	L = 215.24'	L = 66.36'	L = 148.44'
T = 21.53'	T = 130.89'	T = 34.46'	T = 77.82'
R = 100.00'	R = 150.00'	R = 100.00'	R = 200.00'



REVISIONS

MATCHLINE SEE SHEET 6
-SR3- STA 13+50

MATCHLINE SEE SHEET 6
-Y4- STA 16+50

NOTE: COORDINATION WITH RESIDENT ENGINEER
IS REQUIRED PRIOR TO ANY TREE
REMOVAL ON PARCEL 55

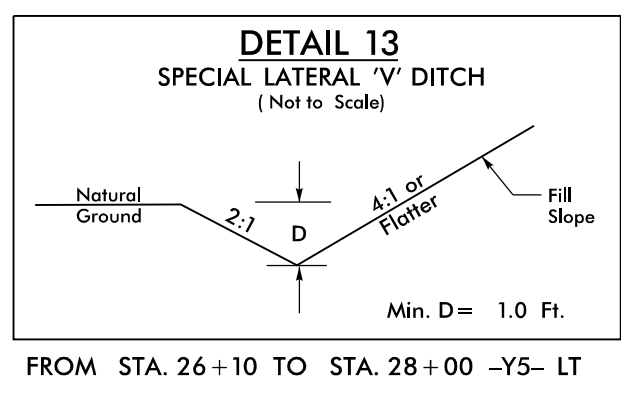
NOTE: SEE SHEET 50 FOR -SRI- PROFILE
SEE SHEET 51 FOR -SR2- PROFILE
SEE SHEET 51 FOR -SR3- PROFILE

07 JUL 2018 12:22
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8/17/99

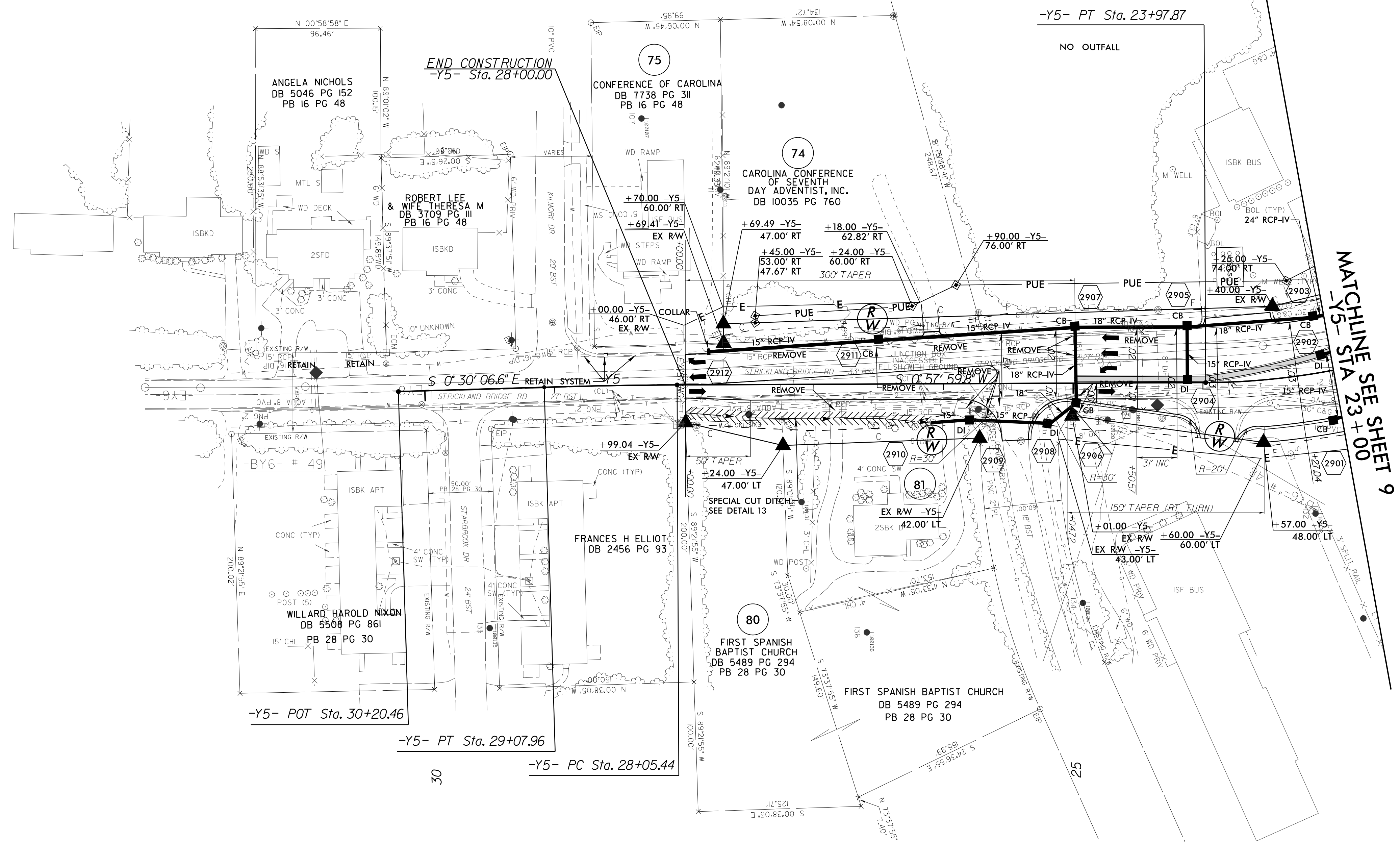
REVISIONS

PROJECT REFERENCE NO. U-4405	SHEET NO. 29
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	



NC GRID
NAD 83/NA 2011

71
CIRCLE K STORES INC
DB 9852 PG 592
PB 137 PG 124

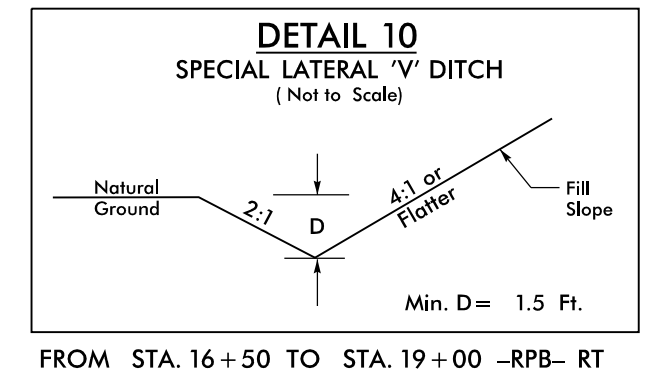


MATCHLINE SEE SHEET 9
-Y5- STA 23+00

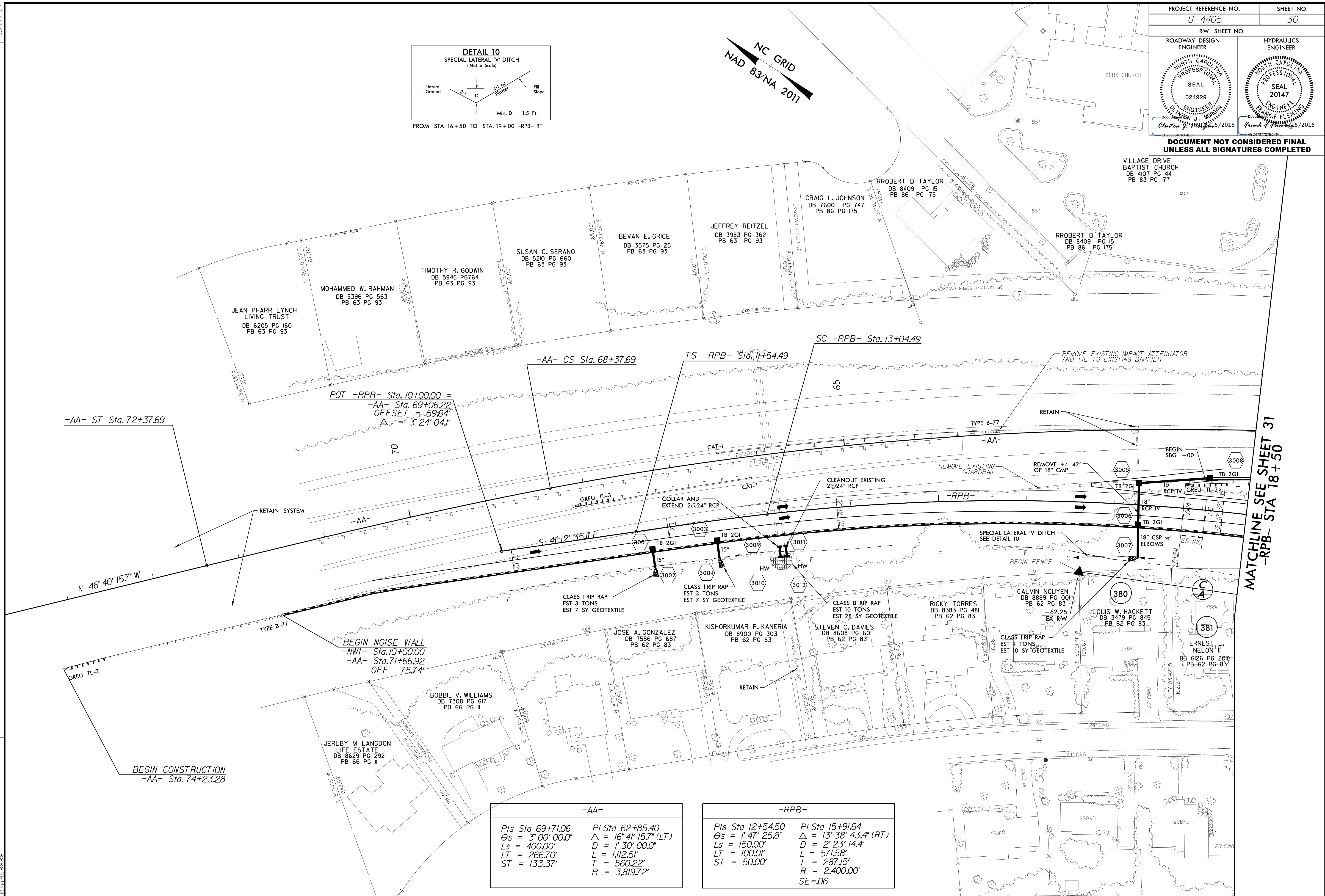
-Y5-	
PI Sta 28+56.71	PI Sta 22+82.12
$\Delta = 1' 28' 06.4''$ (LT)	$\Delta = 25' 18' 13.3''$ (RT)
$D = 1' 25' 56.6''$	$D = 10' 44' 58.8''$
$L = 102.52'$	$L = 235.39'$
$T = 51.26'$	$T = 119.65'$
$R = 4,000.00'$	$R = 533.00'$
	$SE = 0.02$

NOTE: SEE SHEET 46 FOR -Y5- PROFILE

14 JUN 2018 22:12
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3388133131



NC GRID
NAD 83/NA 2011



-AA- ST Sta. 72+37.69

POT -RPB- Sta. 10+00.00 =
-AA- Sta. 69+06.22
OFFSET = -59.64'
Δ = 3° 24' 04.1"

-AA- CS Sta. 68+37.69

TS -RPB- Sta. 11+54.49

SC -RPB- Sta. 13+04.49

BEGIN NOISE WALL
-NW1- Sta. 10+00.00
-AA- Sta. 71+66.92
OFF 75.74'

BEGIN CONSTRUCTION
-AA- Sta. 74+23.28

-AA-	
PI Sta 69+71.06	PI Sta 62+85.40
Os = 3° 00' 00.0"	Δ = 16° 41' 15.7" (LT)
Ls = 400.00'	D = 1° 30' 00.0"
LT = 266.70'	L = 1,112.51'
ST = 133.37'	T = 560.22'
	R = 3,819.72'

-RPB-	
PIs Sta 12+54.50	PI Sta 15+91.64
Os = 1° 47' 25.8"	Δ = 13° 38' 43.4" (RT)
Ls = 150.00'	D = 2° 23' 14.4"
LT = 100.01'	L = 571.58'
ST = 50.00'	T = 287.15'
	R = 2,400.00'
	SE=06

NOTE: SEE SHEET 45 FOR -RPB- PROFILE
NOTE: SEE SHEET SBW-1 THRU SBW-3 FOR SOUND BARRIER WALL PLANS

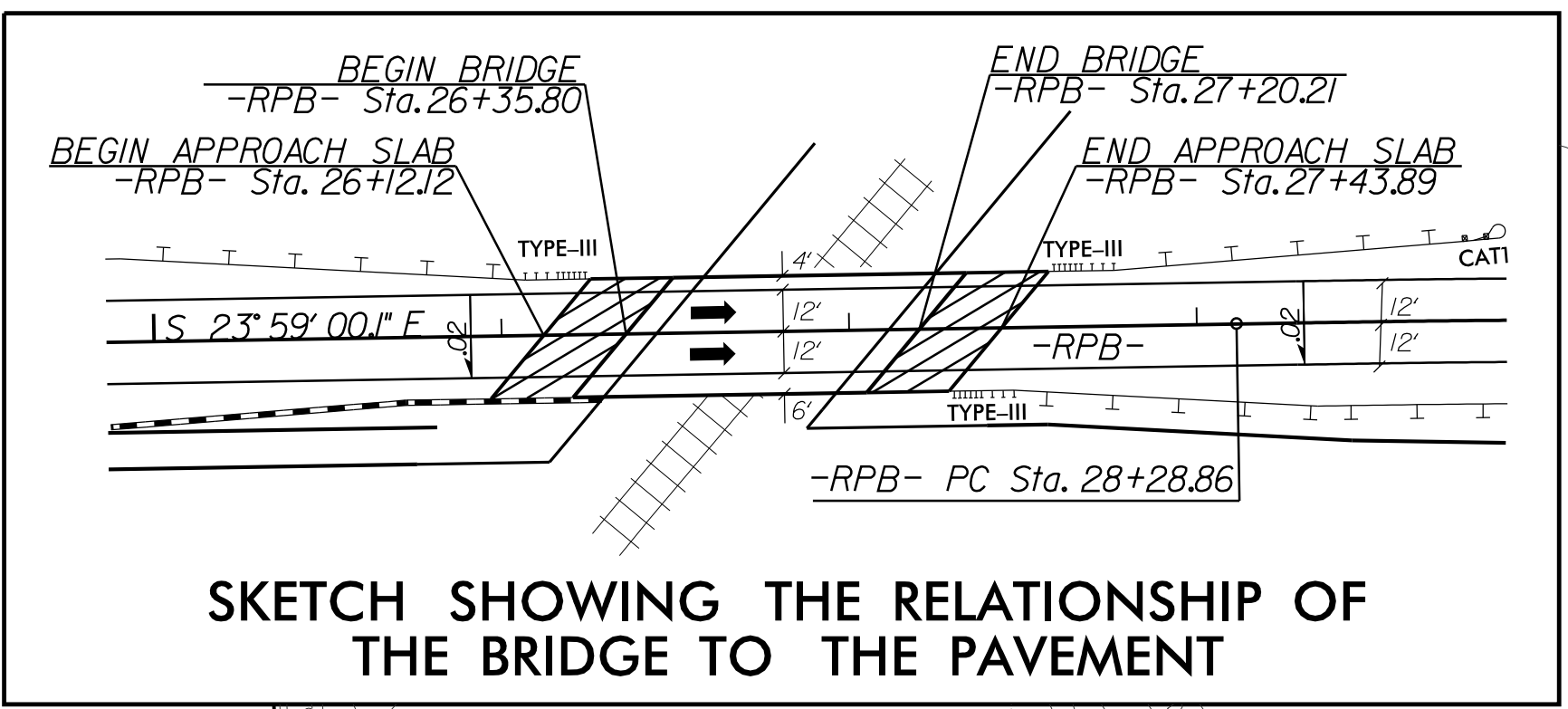
REVISIONS

8.17.09

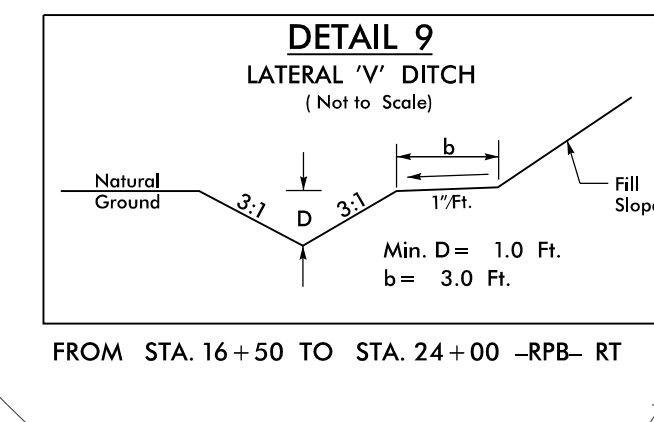
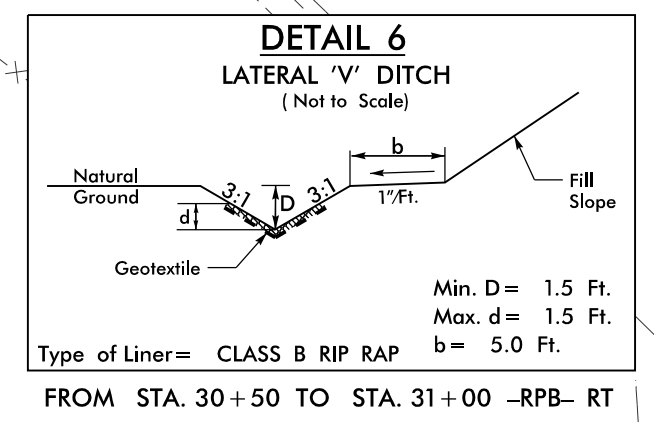
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\$\$\$\$DISPERSE\$\$\$\$

MATCHLINE SEE SHEET 31
-RPB- STA 18+50

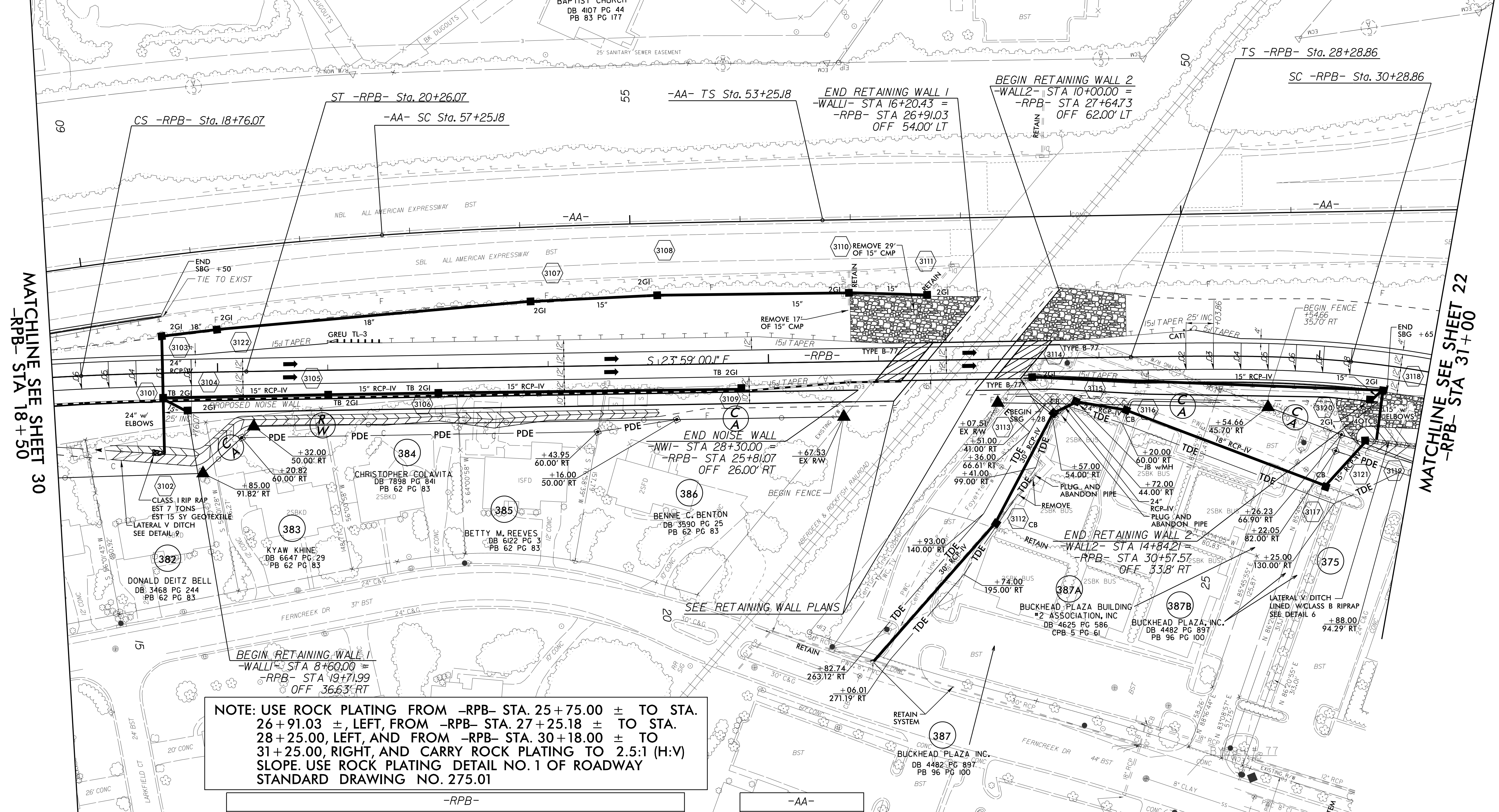
PROJECT REFERENCE NO. U-4405		SHEET NO. 31	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		SEAL	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



SKETCH SHOWING THE RELATIONSHIP OF THE BRIDGE TO THE PAVEMENT



NC GRID
NAD 83/NA 2011



MATCHLINE SEE SHEET 30
-RPB- STA 18+50

MATCHLINE SEE SHEET 22
-RPB- STA 31+00

NOTE: USE ROCK PLATING FROM -RPB- STA. 25+75.00 ± TO STA. 26+91.03 ±, LEFT, FROM -RPB- STA. 27+25.18 ± TO STA. 28+25.00, LEFT, AND FROM -RPB- STA. 30+18.00 ± TO STA. 31+25.00, RIGHT, AND CARRY ROCK PLATING TO 2.5:1 (H:V) SLOPE. USE ROCK PLATING DETAIL NO. 1 OF ROADWAY STANDARD DRAWING NO. 275.01

-RPB-			-AA-		
PI Sta 15+91.64	PIs Sta 19+26.07	PI Sta 29+62.28	PI Sta 31+40.19	PIs Sta 55+91.89	
$\Delta = 13^{\circ} 38' 43.4''$ (RT)	$\Delta s = 1^{\circ} 47' 25.8''$	$\Delta s = 6^{\circ} 21' 58.3''$	$\Delta = 14^{\circ} 06' 13.2''$ (RT)	$\Delta s = 3^{\circ} 00' 00.0''$	
$D = 2^{\circ} 23' 14.4''$	$Ls = 150.00'$	$Ls = 200.00'$	$D = 6^{\circ} 21' 58.3''$	$Ls = 400.00'$	
$L = 571.58'$	$LT = 100.01'$	$LT = 133.42'$	$L = 221.54'$	$LT = 266.70'$	
$T = 287.15'$	$ST = 50.00'$	$ST = 66.75'$	$T = 111.33'$	$ST = 133.37'$	
$R = 2,400.00'$			$R = 900.00'$		
$SE = .06$			$SE = .08$		

NOTE: SEE SHEET 45 FOR -RPB- PROFILE
SEE SHEET S-1 THRU S-26 FOR STRUCTURE PLANS
SEE SHEET W-1 THRU W-9 FOR RETAINING WALL PLANS
SEE SHEET SBW-1 THRU SBW-3 FOR SOUND BARRIER WALL PLANS

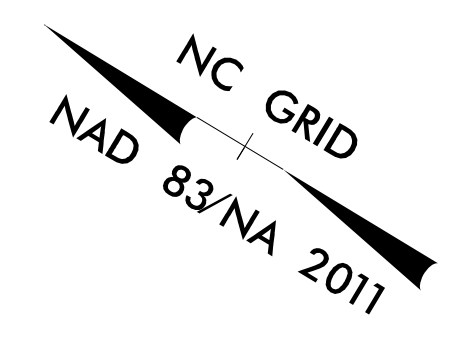
REVISIONS

8.17.7.99

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\$\$\$\$DISPATCH\$\$\$\$

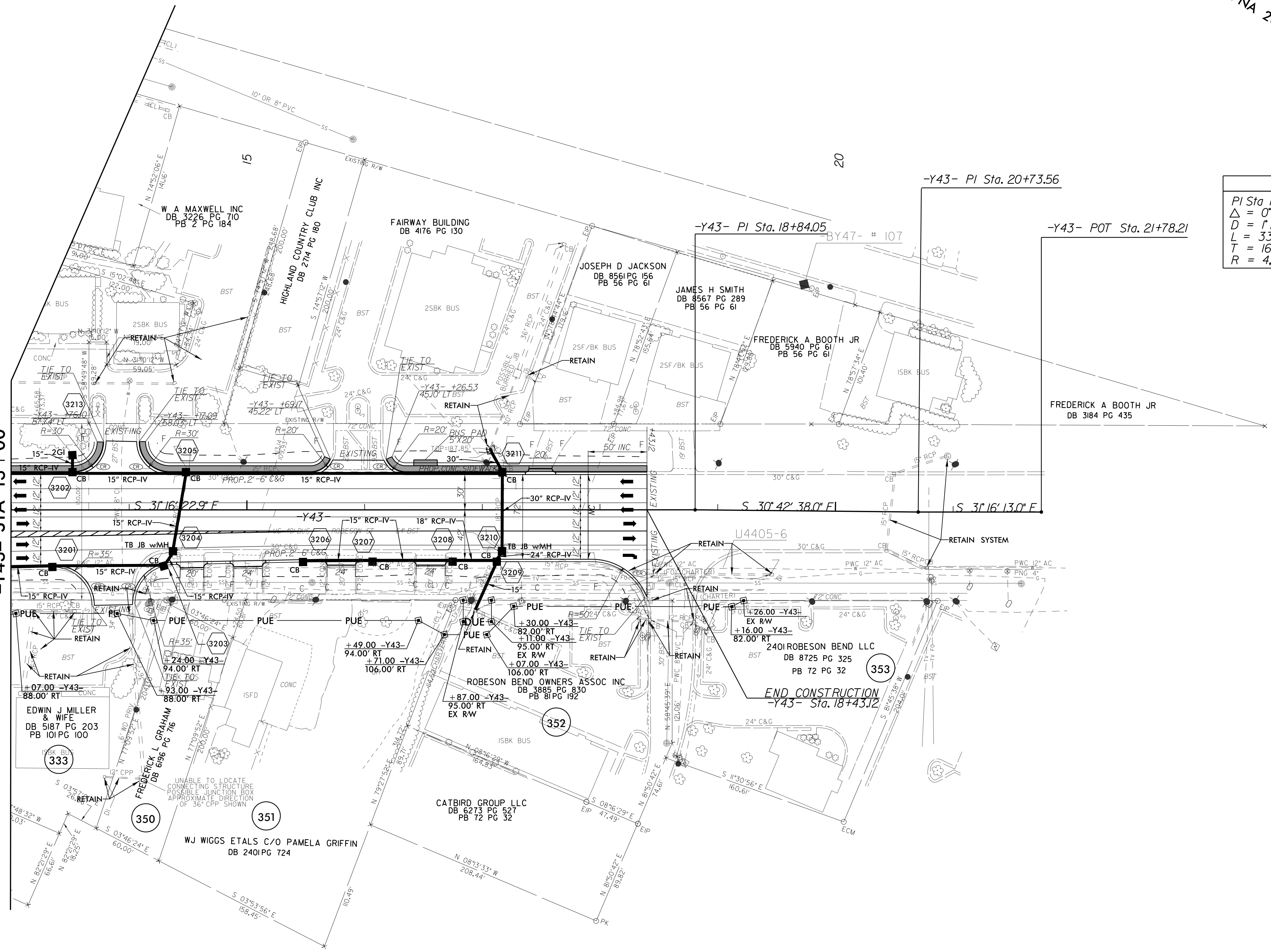
8.17.19

PROJECT REFERENCE NO. U-4405	SHEET NO. 32
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	



MATCHLINE SEE SHEET 27
 -Y43- STA 13+00

REVISIONS



-Y43-	
PI Sta 18+97.74	PI Sta 21+7.77
$\Delta = 0' 29' 06.2''$ (RT)	$\Delta = 0' 28' 56.2''$ (LT)
$D = 1' 25' 56.6''$	$D = 1' 25' 56.6''$
$L = 33.86'$	$L = 33.67'$
$T = 16.93'$	$T = 16.83'$
$R = 4,000.00'$	$R = 4,000.00'$

PROP CONC SIDEWALK

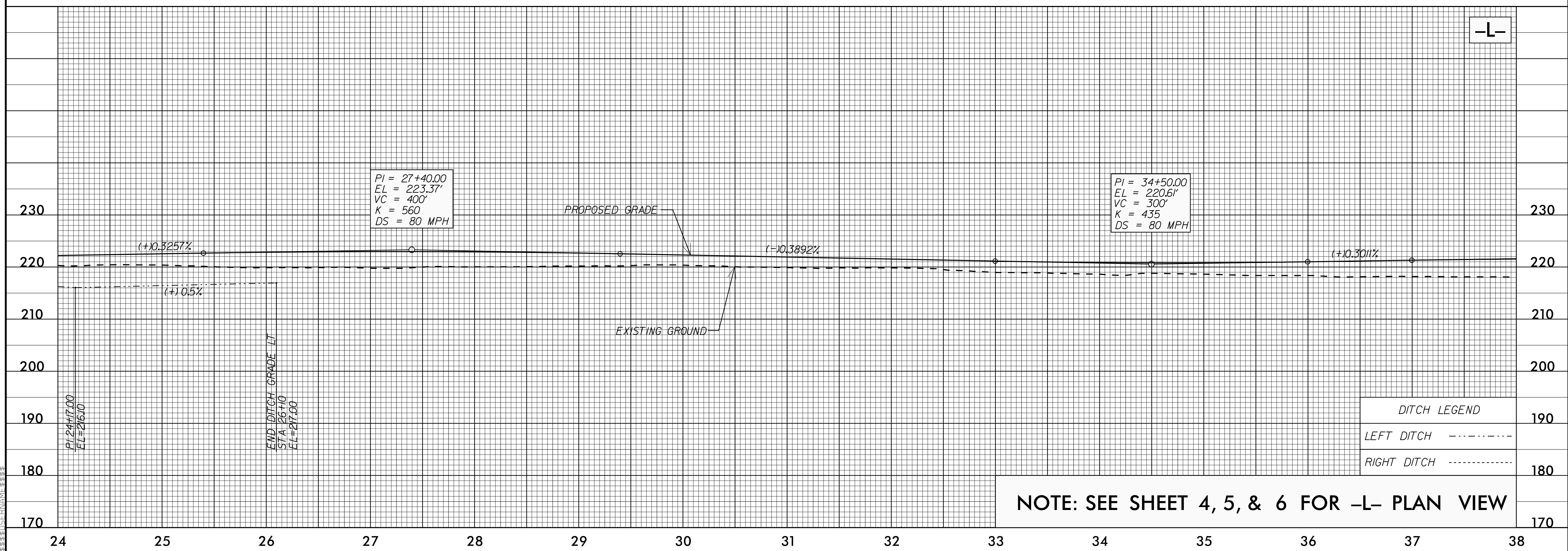
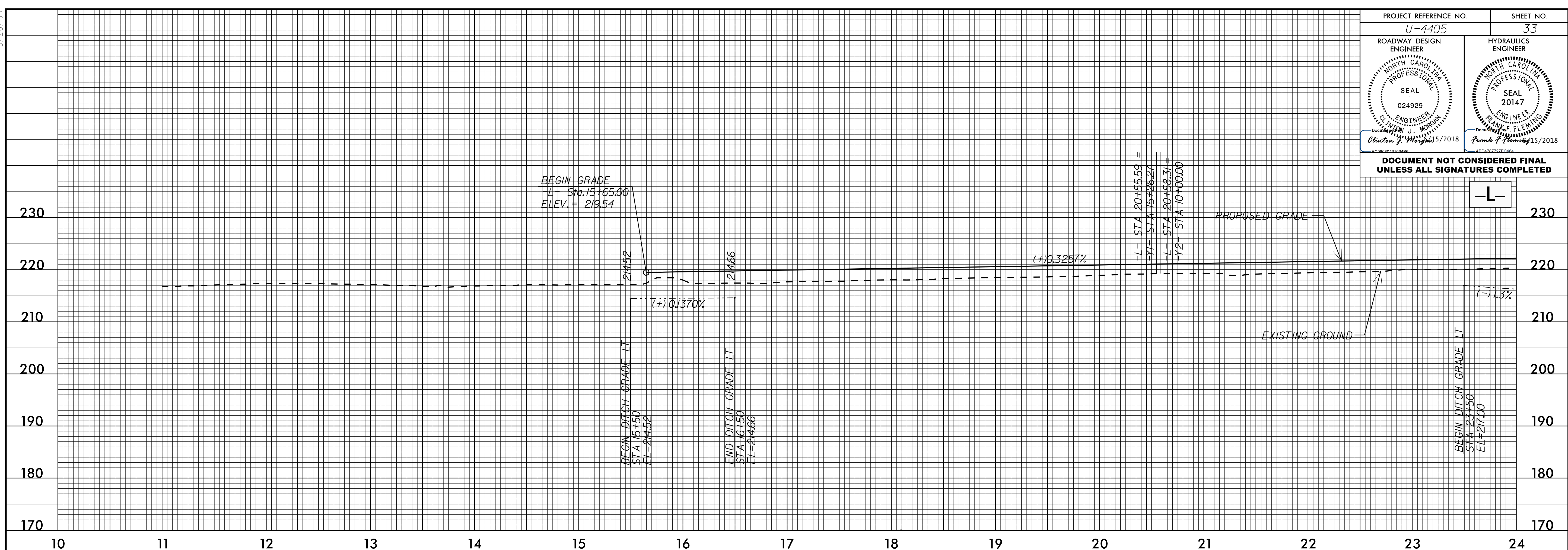
NOTE: BUS PADS WILL BE PAID FOR AS SIDEWALK
SEE SHEET 50 FOR -Y43- PROFILE

15 JUN 2018 14:30
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5/28/99

PROJECT REFERENCE NO. U-4405	SHEET NO. 33
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 024929 CLINTON J. MORISON Document 5/2018	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 20147 FRANK F. FLEMING Document 15/2018

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DITCH LEGEND	
LEFT DITCH	-----
RIGHT DITCH	-----

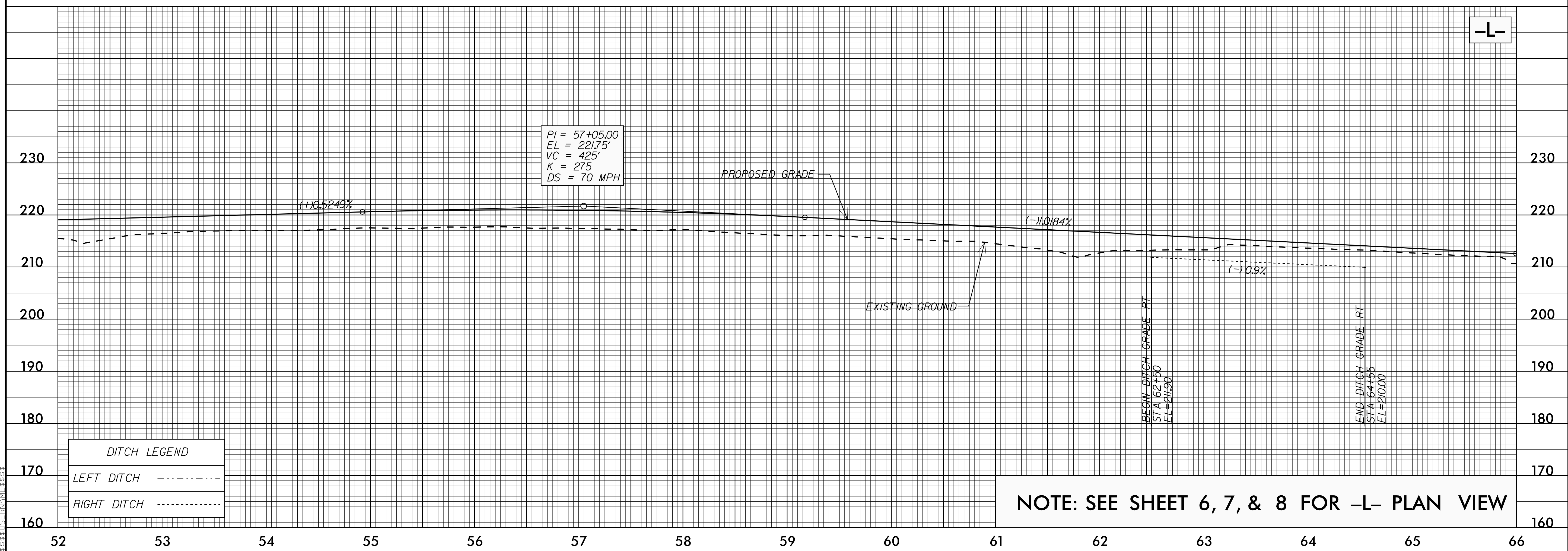
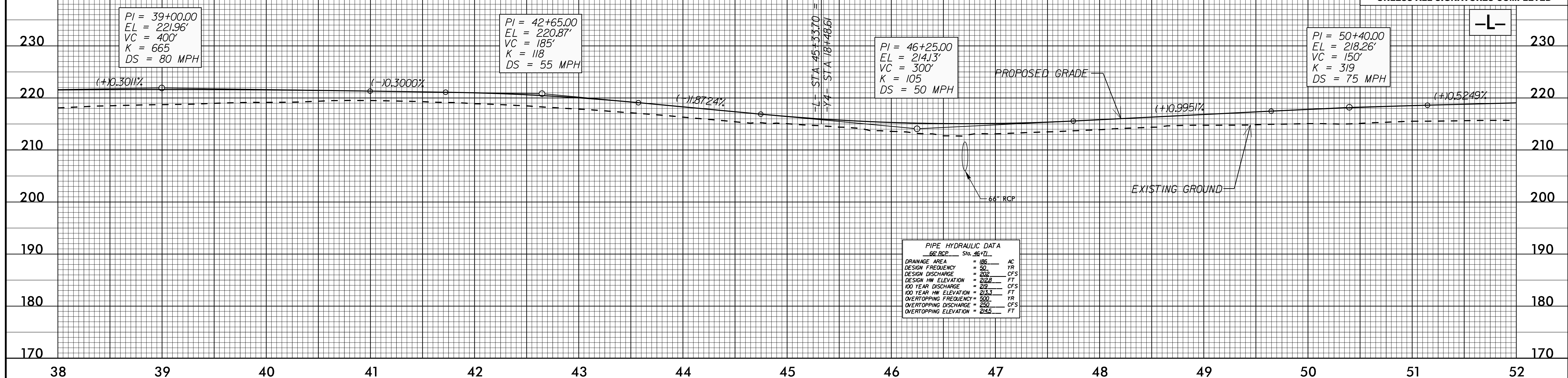
NOTE: SEE SHEET 4, 5, & 6 FOR -L- PLAN VIEW

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5/28/19

PROJECT REFERENCE NO. U-4405	SHEET NO. 34
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 024929 Clinton J. Morgan 5/2018	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 20147 Frank F. Fleming 5/2018

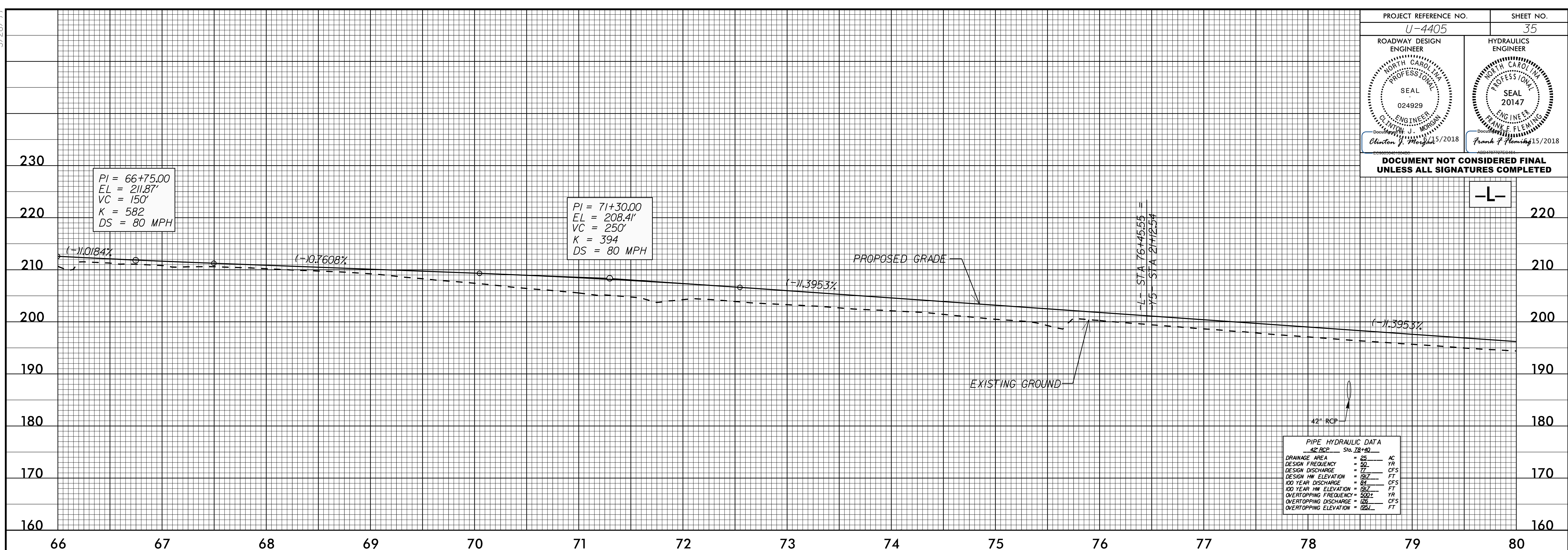
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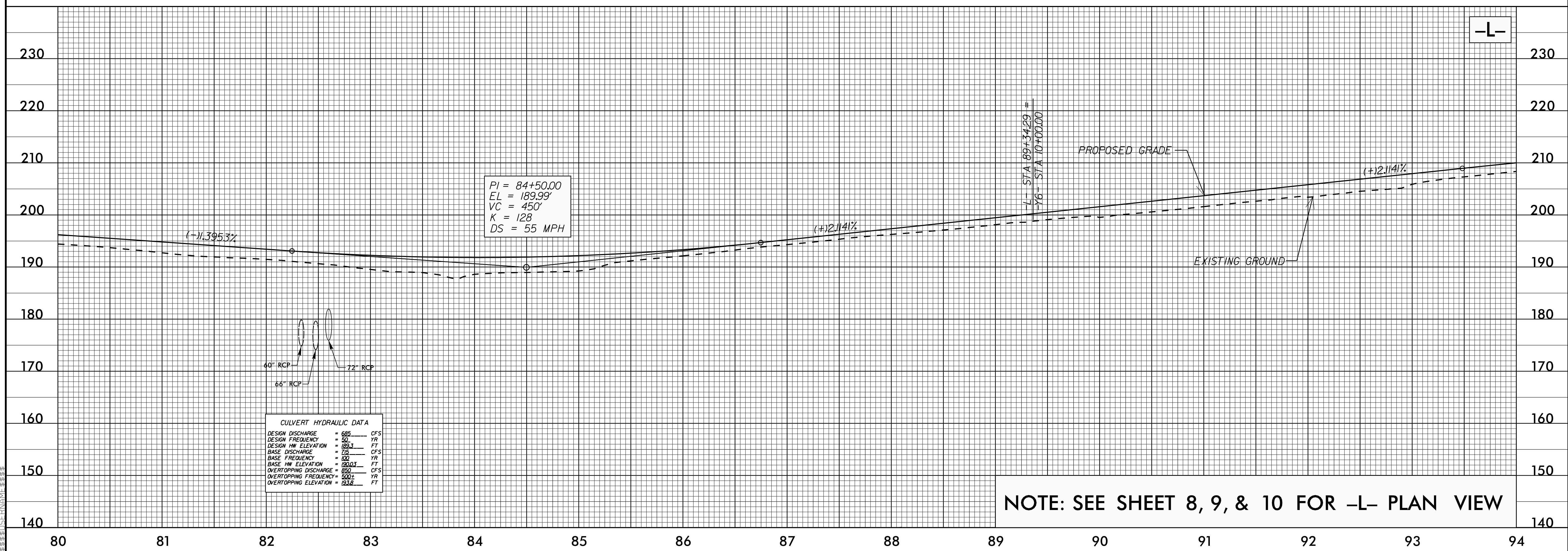
5/28/19

PROJECT REFERENCE NO. U-4405	SHEET NO. 35
ROADWAY DESIGN ENGINEER SEAL 024929 CLINTON J. MORRISON Document 5/2018	HYDRAULICS ENGINEER SEAL 20147 FRANK F. FLEMING Document 5/2018
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



PIPE HYDRAULIC DATA

42" RCP	Slo. 28+80
DRAINAGE AREA	= 22 AC
DESIGN FREQUENCY	= 50 YR
DESIGN DISCHARGE	= 77 CFS
DESIGN HW ELEVATION	= 197 FT
100 YEAR DISCHARGE	= 84 CFS
100 YEAR HW ELEVATION	= 197 FT
OVERTOPPING FREQUENCY	= 500 YR
OVERTOPPING DISCHARGE	= 125 CFS
OVERTOPPING ELEVATION	= 195 FT



CULVERT HYDRAULIC DATA

DESIGN DISCHARGE	= 685 CFS
DESIGN FREQUENCY	= 50 YR
DESIGN HW ELEVATION	= 199.3 FT
BASE DISCHARGE	= 75 CFS
BASE FREQUENCY	= 100 YR
BASE HW ELEVATION	= 190.3 FT
OVERTOPPING DISCHARGE	= 550 CFS
OVERTOPPING FREQUENCY	= 500 YR
OVERTOPPING ELEVATION	= 193.8 FT

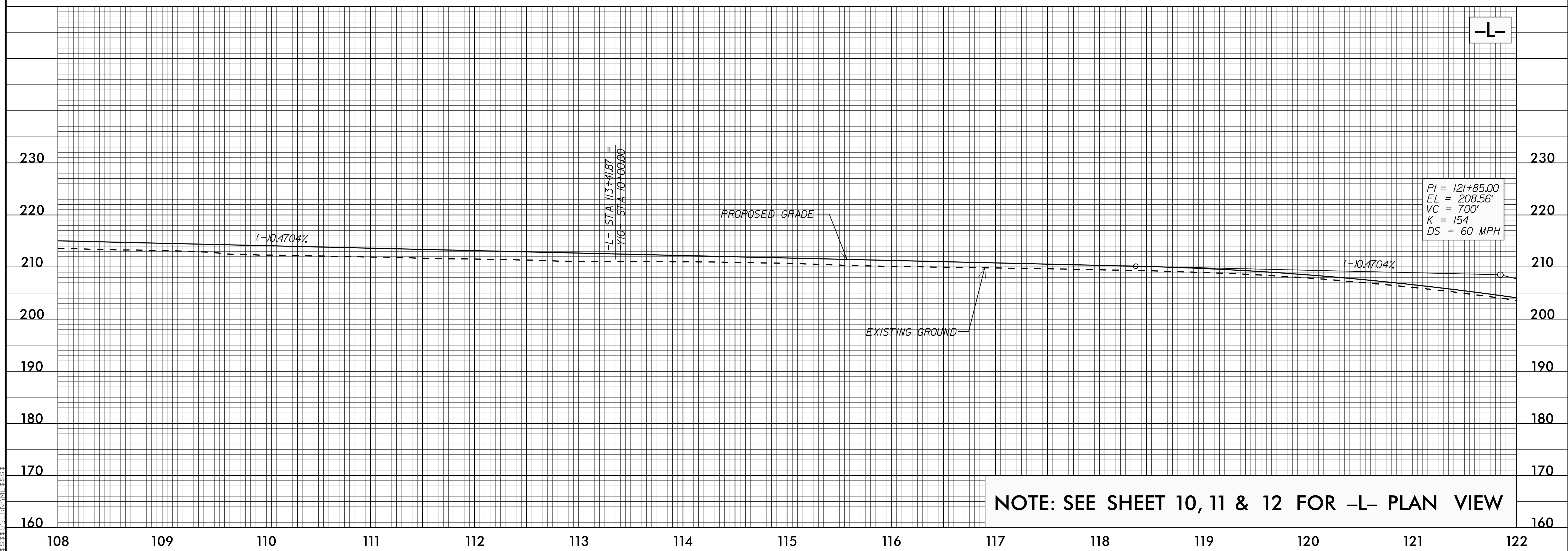
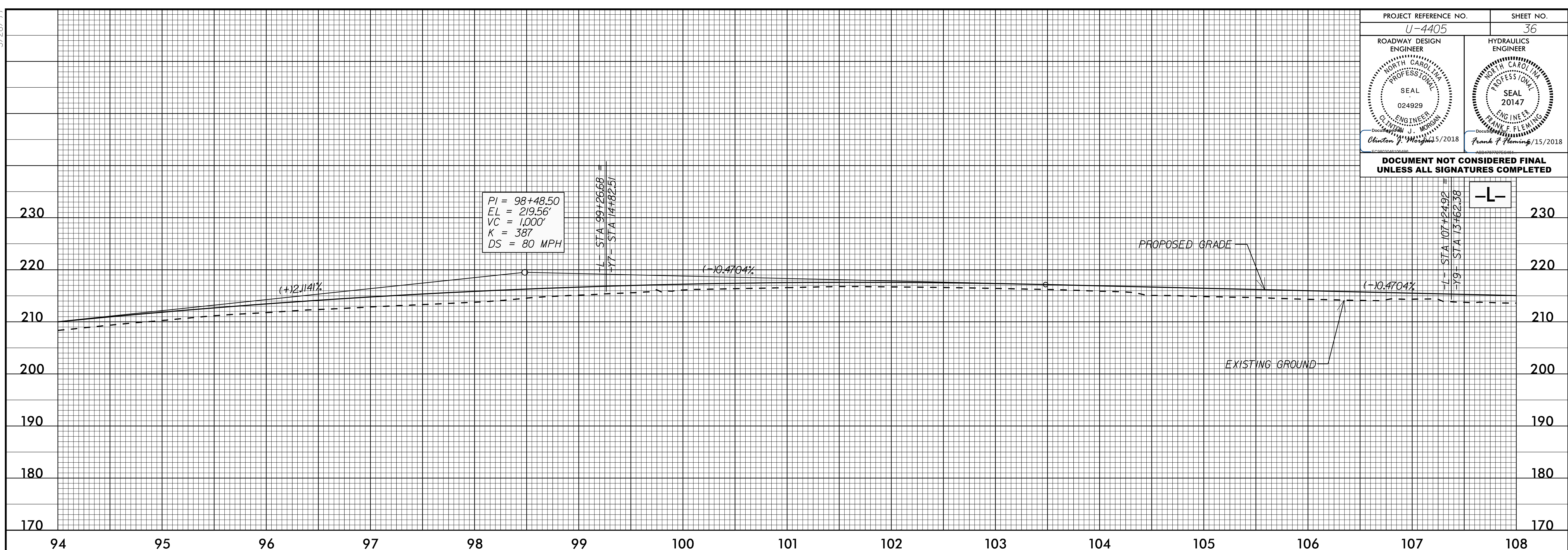
NOTE: SEE SHEET 8, 9, & 10 FOR -L- PLAN VIEW

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5/28/99

PROJECT REFERENCE NO. U-4405	SHEET NO. 36
ROADWAY DESIGN ENGINEER CLINTON J. MORRISON SEAL 024929 NORTH CAROLINA PROFESSIONAL ENGINEER DocuSign 5/2018	HYDRAULICS ENGINEER FRANK F. FLEMING SEAL 20147 NORTH CAROLINA PROFESSIONAL ENGINEER DocuSign 15/2018

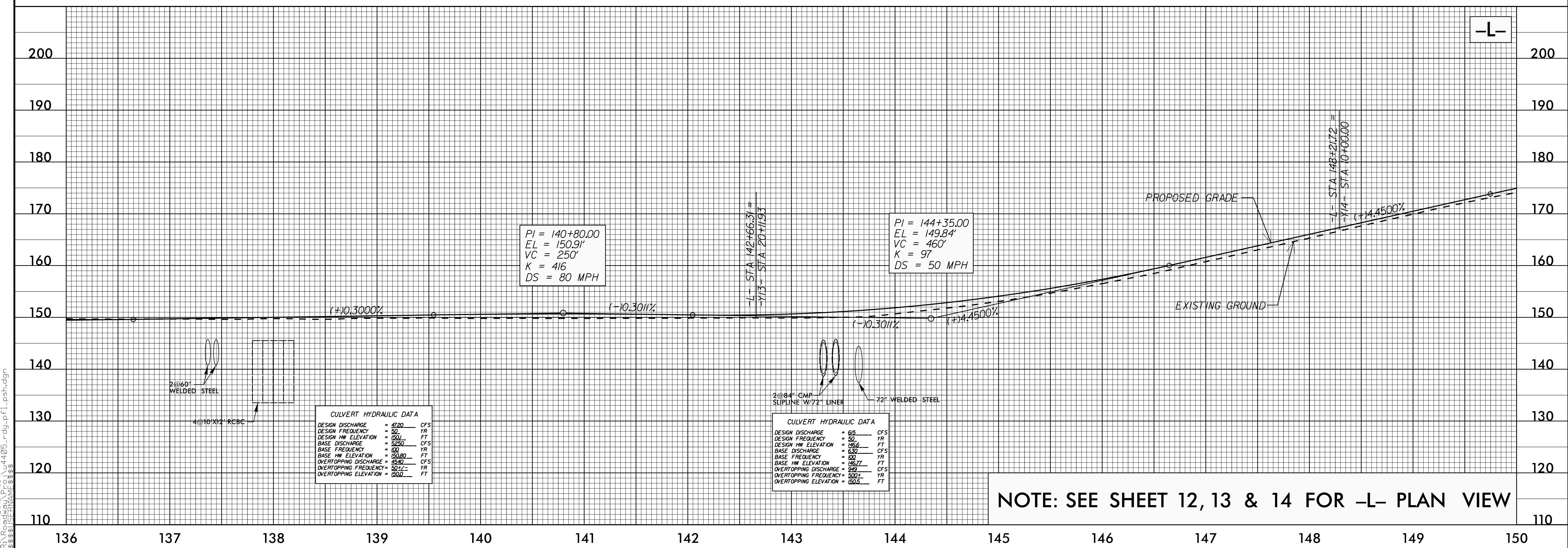
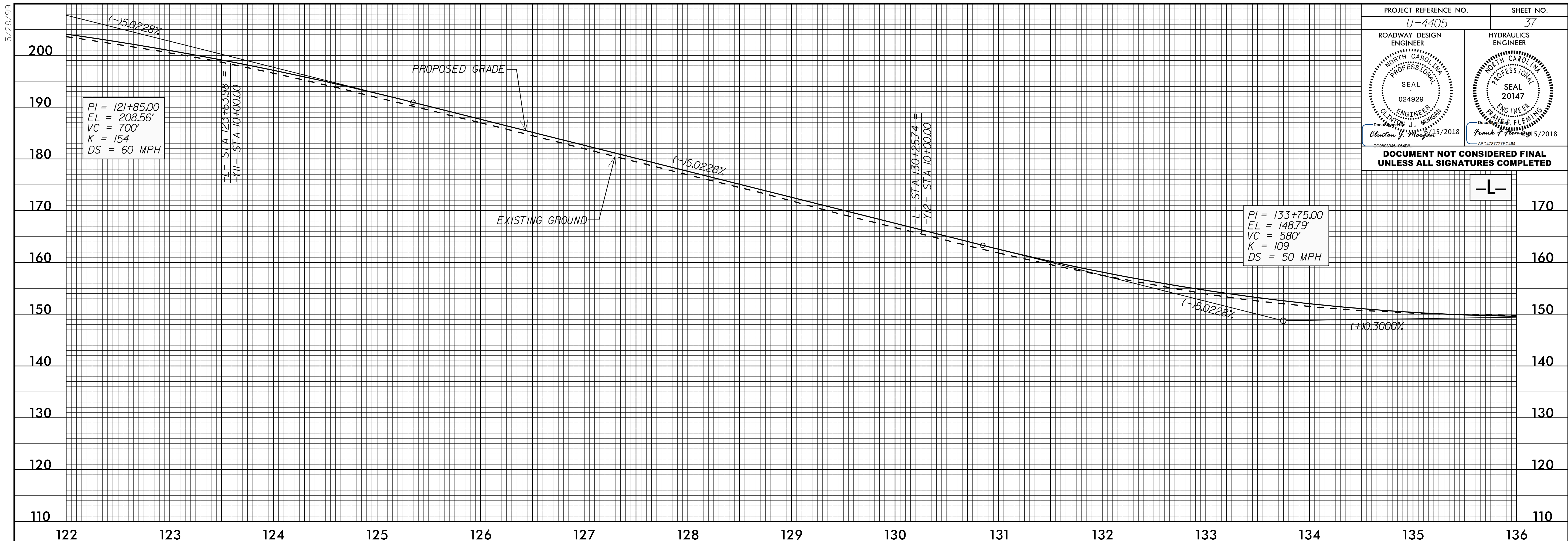
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



NOTE: SEE SHEET 10, 11 & 12 FOR -L- PLAN VIEW

P5:APP-2018 1434
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5/28/99

PROJECT REFERENCE NO. U-4405	SHEET NO. 37
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 024929 Clinton J. Morgan 12/5/2018	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 20147 Frank F. Fleming 5/2018
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

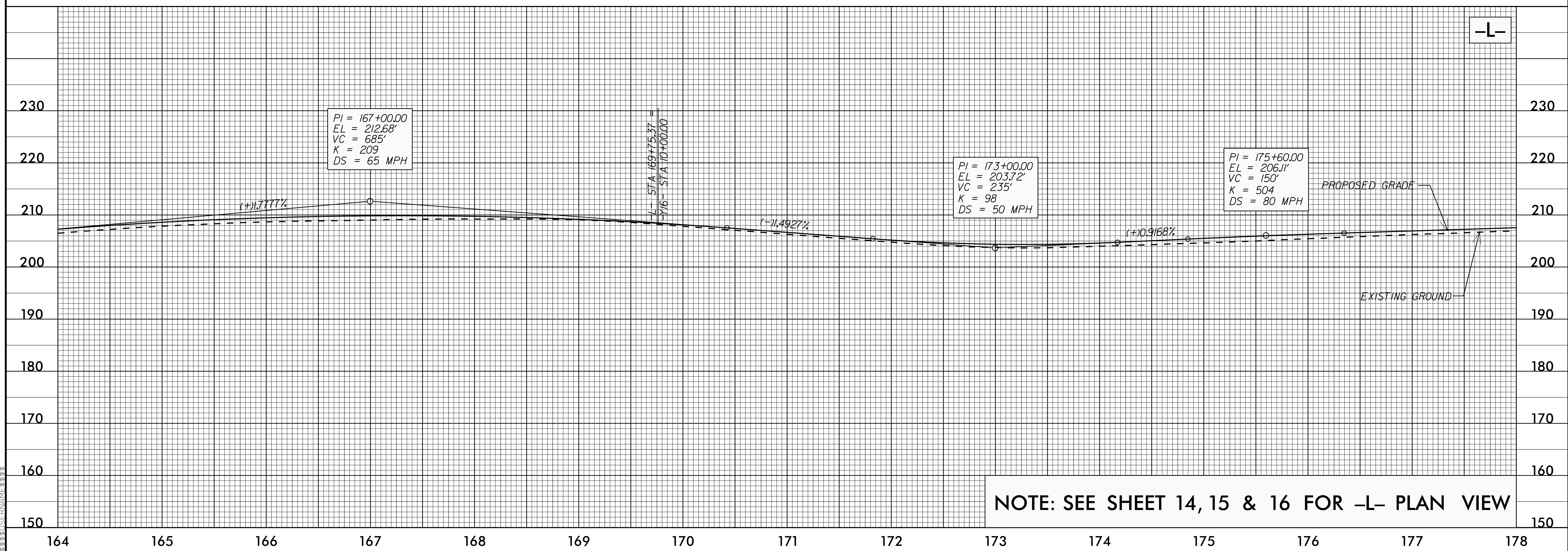
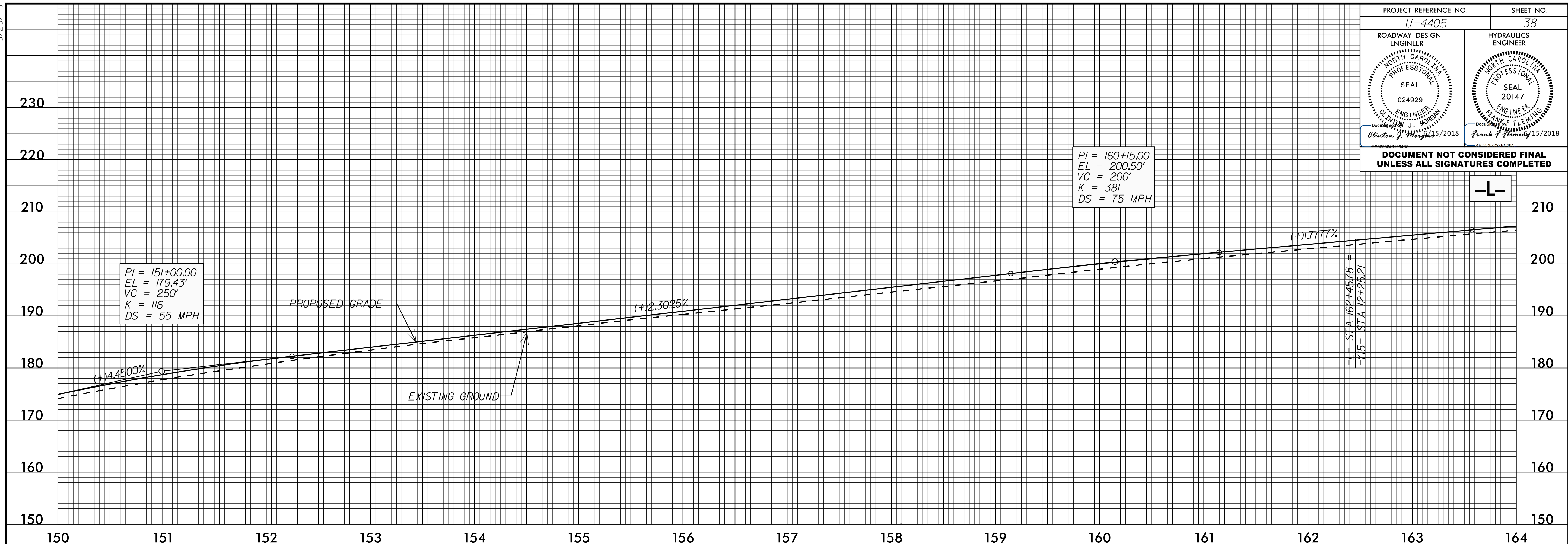


NOTE: SEE SHEET 12, 13 & 14 FOR -L- PLAN VIEW

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5/28/18

PROJECT REFERENCE NO. U-4405	SHEET NO. 38
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 024929 CLINTON J. MORGAN 5/2018	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 20147 FRANK F. FLEMING 5/2018
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



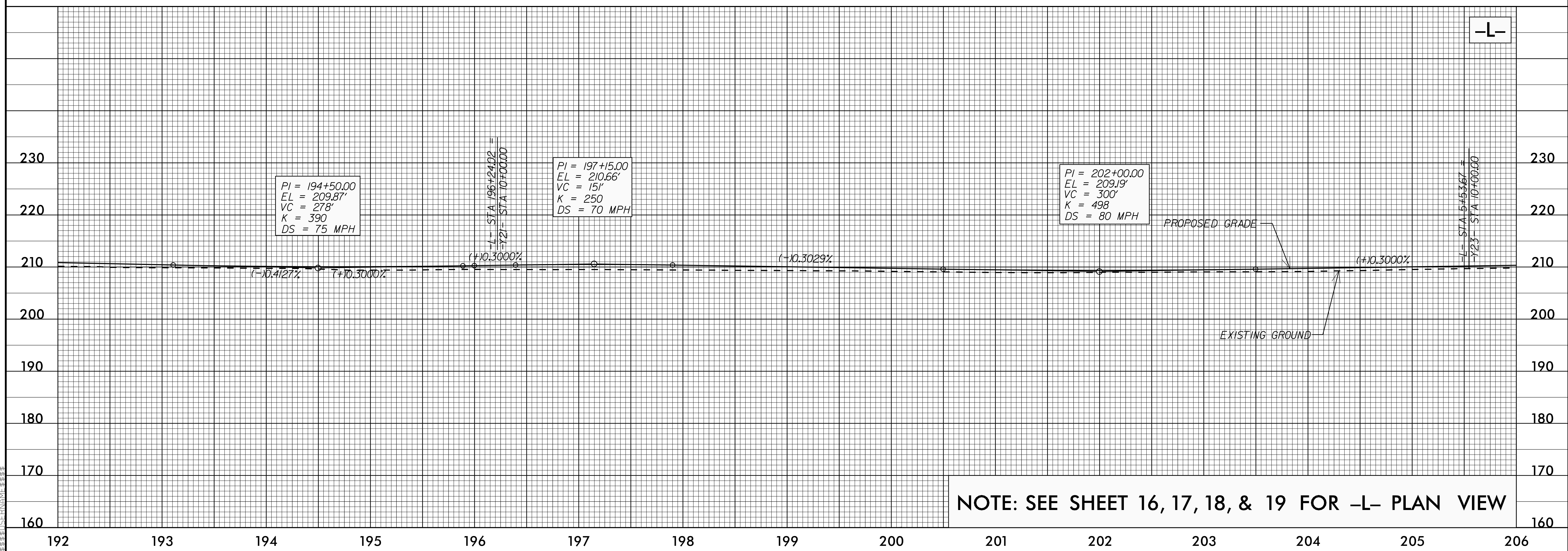
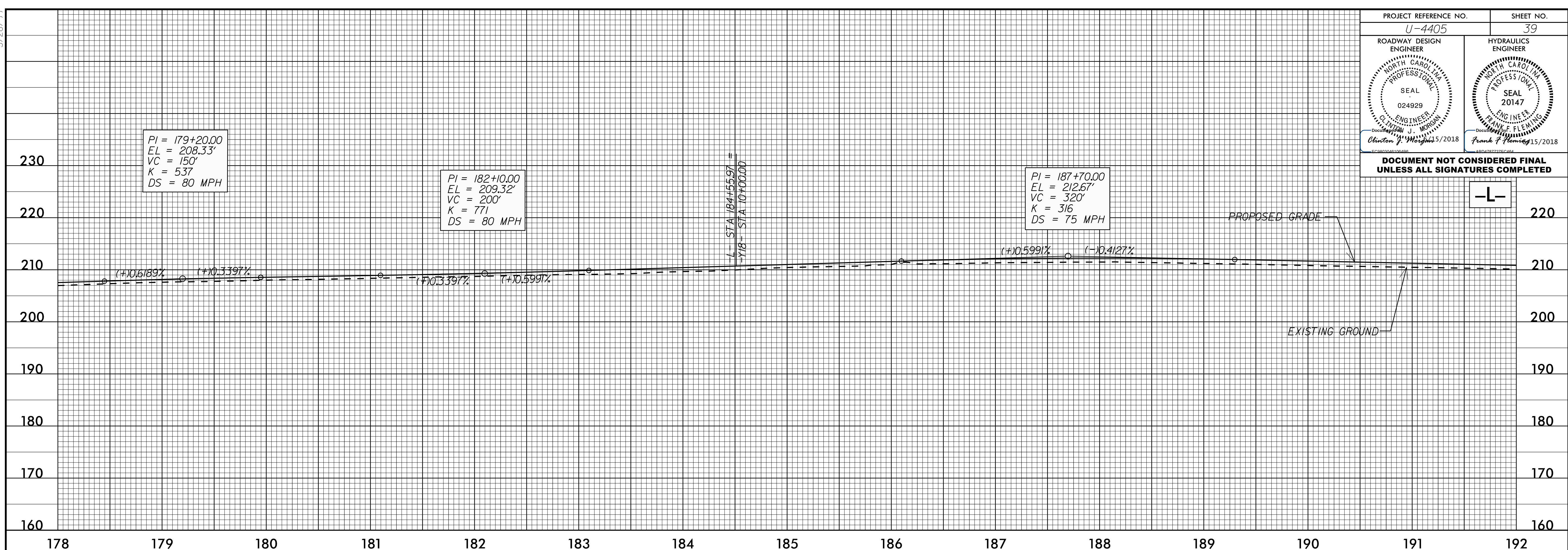
NOTE: SEE SHEET 14, 15 & 16 FOR -L- PLAN VIEW

P5:APR-2018 14:34 P:\Projects\U4405_rdy.pfl_psh.dgn

5/28/19

PROJECT REFERENCE NO. U-4405	SHEET NO. 39
ROADWAY DESIGN ENGINEER CLINTON J. MORROW SEAL 024929 NORTH CAROLINA PROFESSIONAL ENGINEER DocuSign 5/2018	HYDRAULICS ENGINEER FRANK FLEMING SEAL 20147 NORTH CAROLINA PROFESSIONAL ENGINEER DocuSign 5/2018

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



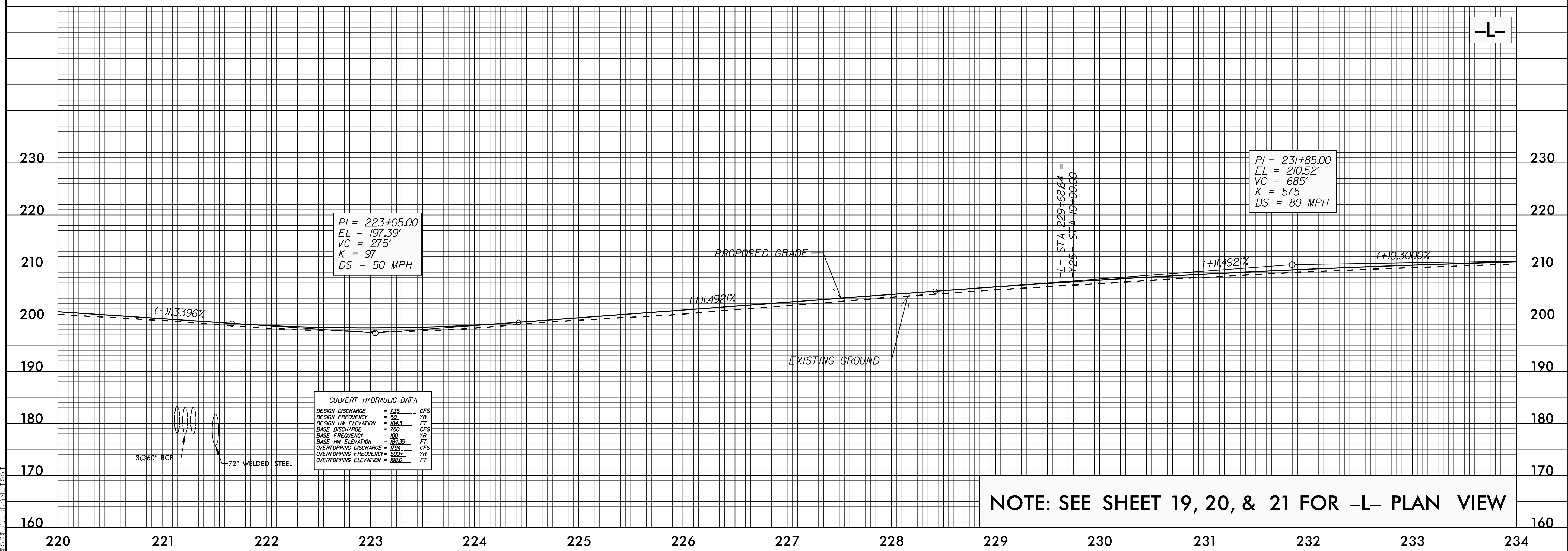
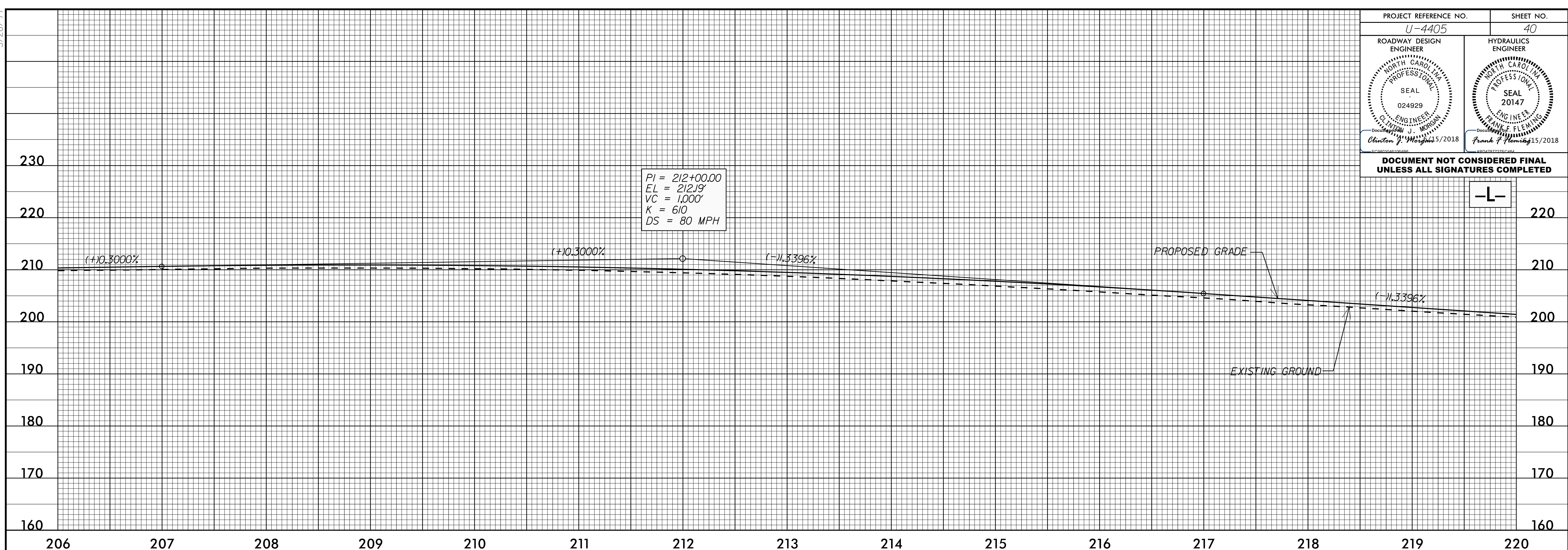
NOTE: SEE SHEET 16, 17, 18, & 19 FOR -L- PLAN VIEW

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5/28/19

PROJECT REFERENCE NO. U-4405	SHEET NO. 40
ROADWAY DESIGN ENGINEER CLINTON J. MORISON SEAL 024929 NORTH CAROLINA PROFESSIONAL ENGINEER DocuSign 5/2018	HYDRAULICS ENGINEER FRANK F. FLEMING SEAL 20147 NORTH CAROLINA PROFESSIONAL ENGINEER DocuSign 5/2018

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CULVERT HYDRAULIC DATA

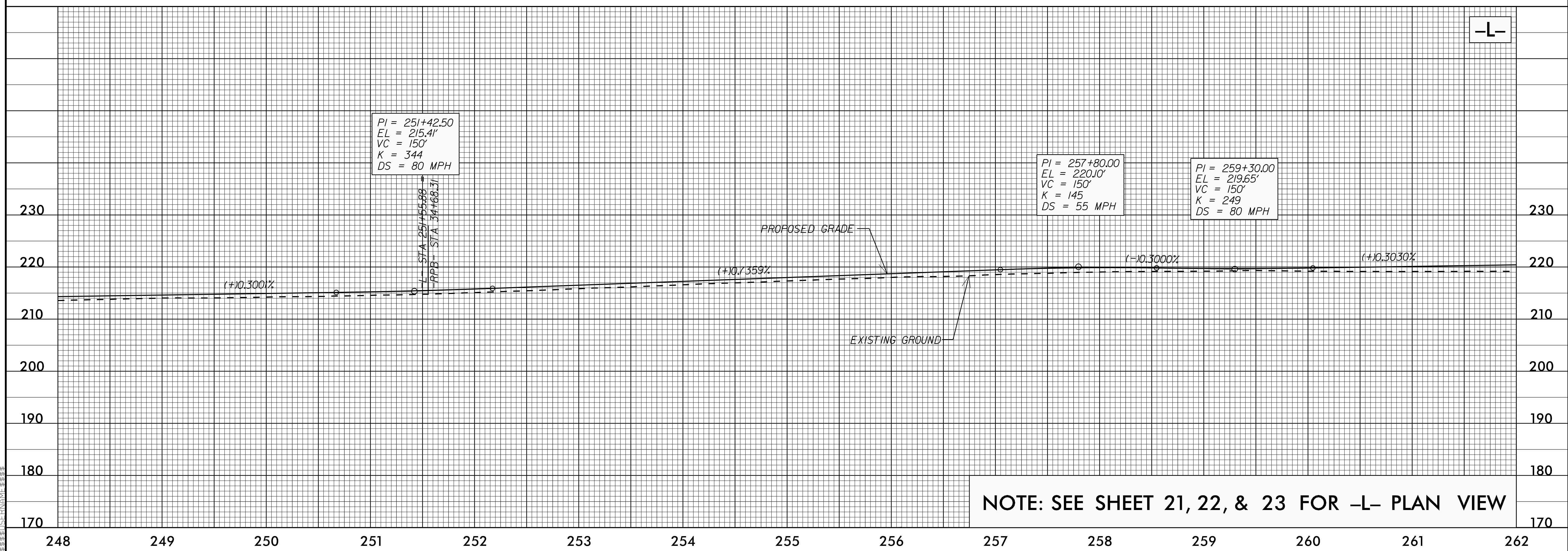
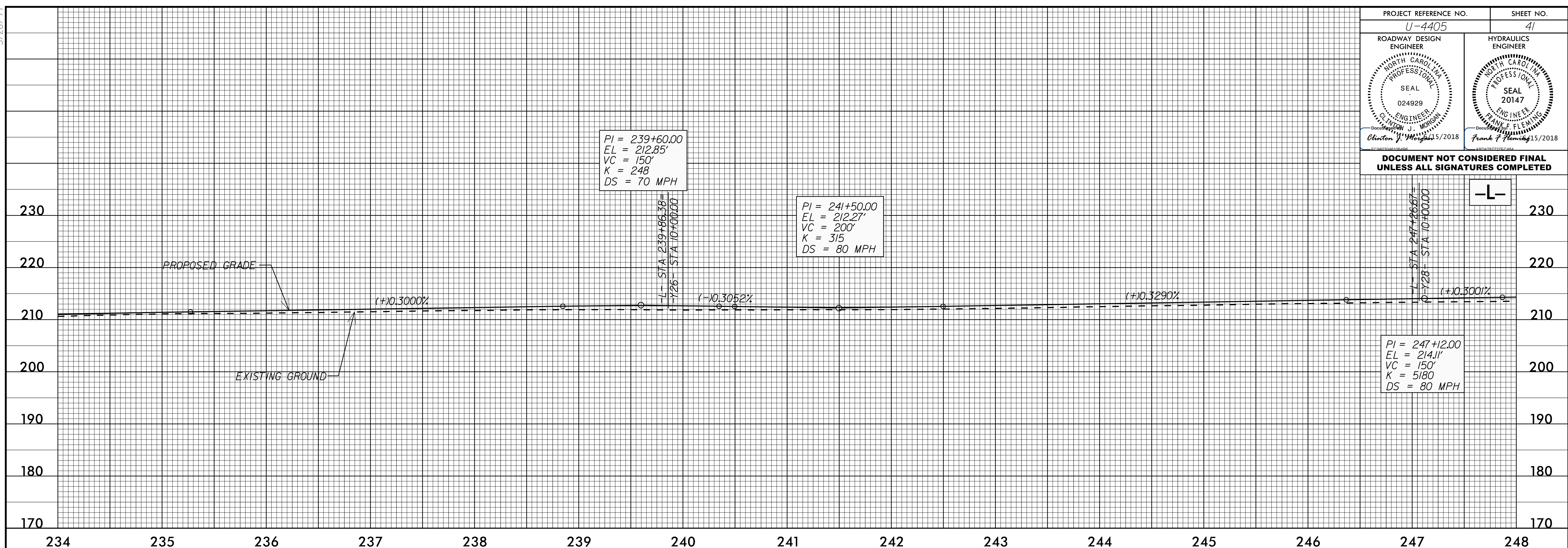
DESIGN DISCHARGE	= 736	CFS
DESIGN FREQUENCY	= 50	YR
DESIGN HW ELEVATION	= 194.3	FT
BASE DISCHARGE	= 750	CFS
BASE FREQUENCY	= 50	YR
BASE HW ELEVATION	= 194.39	FT
OVERTOPPING DISCHARGE	= 794	CFS
OVERTOPPING FREQUENCY	= 500	YR
OVERTOPPING ELEVATION	= 196.6	FT

P5-APP-2018-1434
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5/28/19

PROJECT REFERENCE NO. U-4405	SHEET NO. 41
ROADWAY DESIGN ENGINEER CLINTON J. MORROW NORTH CAROLINA PROFESSIONAL SEAL 024929 5/2018	HYDRAULICS ENGINEER FRANK F. FLEMING NORTH CAROLINA PROFESSIONAL SEAL 20147 15/2018

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

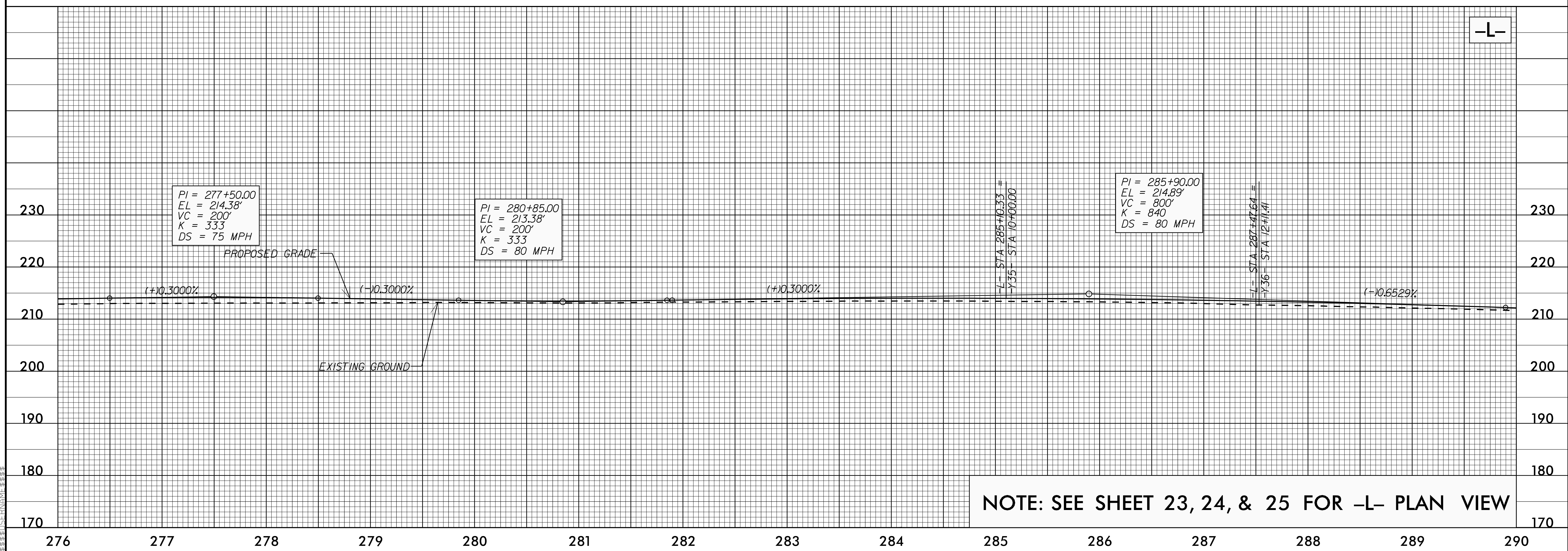
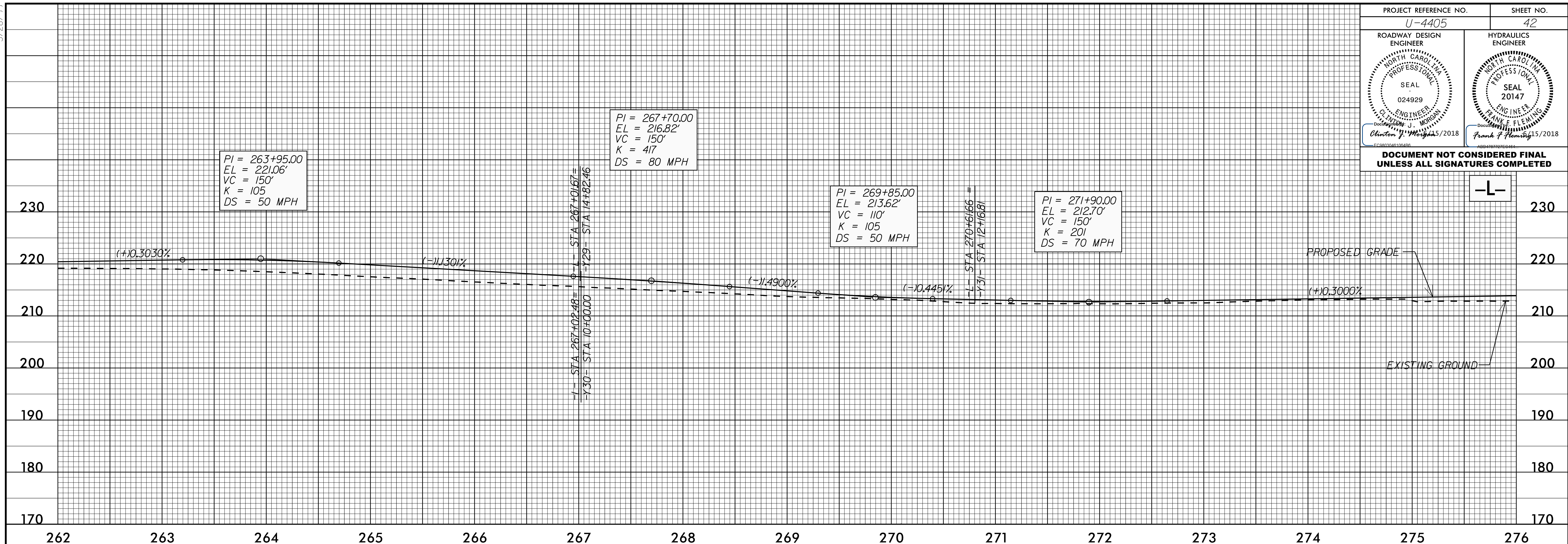


NOTE: SEE SHEET 21, 22, & 23 FOR -L- PLAN VIEW

P5-APP-2018-1434
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5/28/19

PROJECT REFERENCE NO. U-4405	SHEET NO. 42
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 024929 Clinton J. Morgan 5/2018	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 20147 Frank F. Fleming 5/2018
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



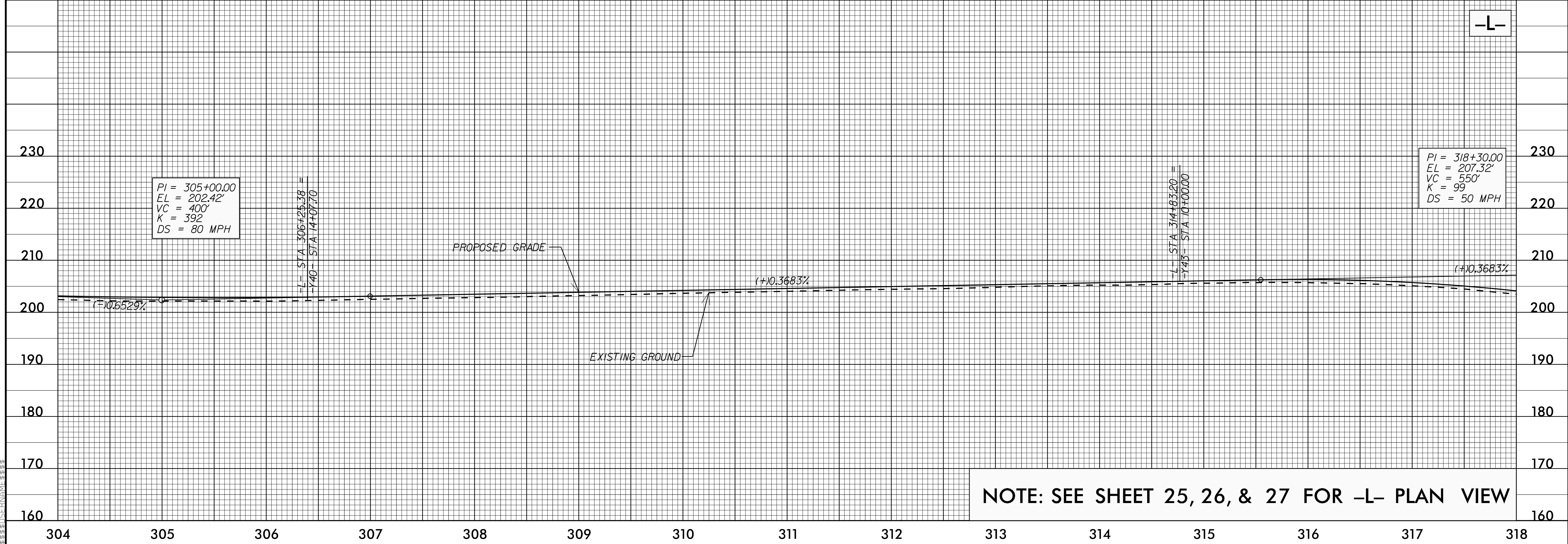
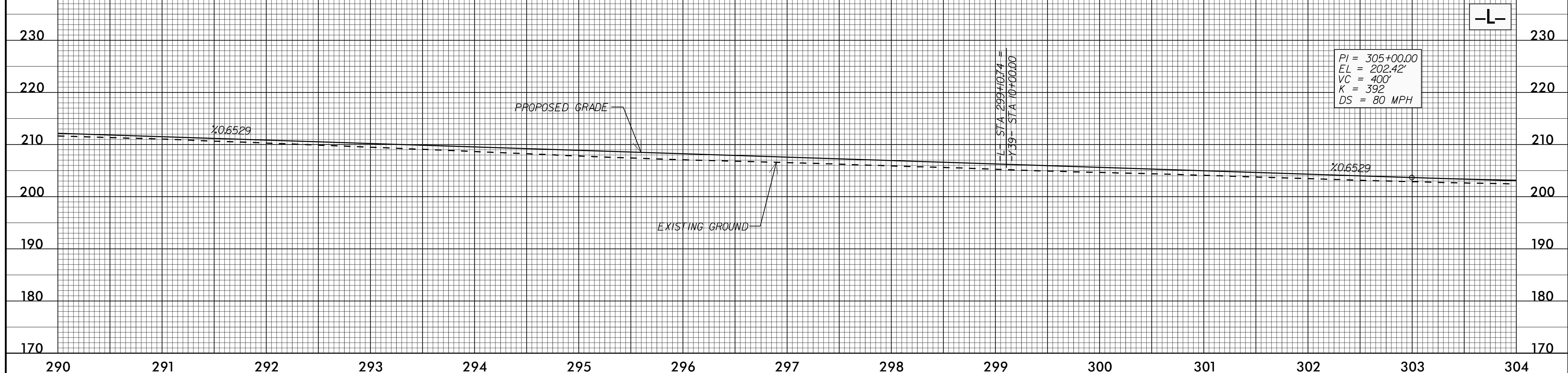
NOTE: SEE SHEET 23, 24, & 25 FOR -L- PLAN VIEW

P5-APP-2018-1434
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PROJECT REFERENCE NO. U-4405	SHEET NO. 43
ROADWAY DESIGN ENGINEER CLINTON J. MORGAN SEAL 024929 ENGINEER 5/2018	HYDRAULICS ENGINEER FRANK F. FLEMING SEAL 20147 ENGINEER 5/2018

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

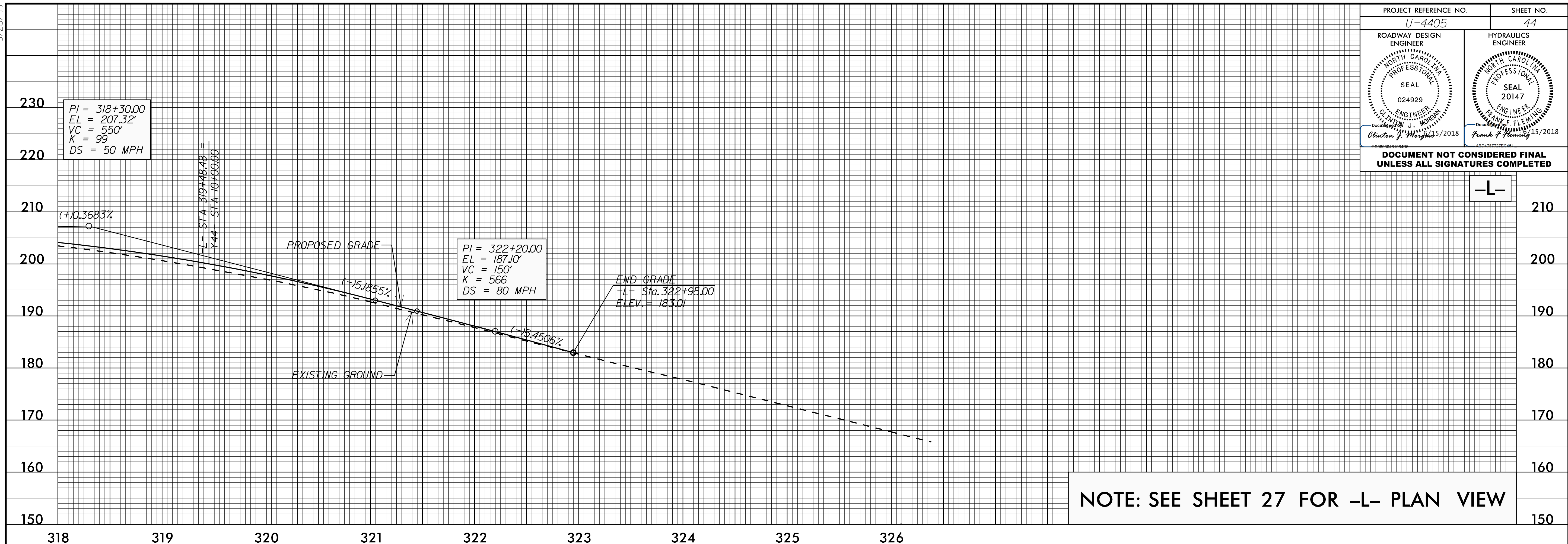


NOTE: SEE SHEET 25, 26, & 27 FOR -L- PLAN VIEW

P5-APP-2018-1435
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5/28/99

5/28/19

PROJECT REFERENCE NO. U-4405	SHEET NO. 44
ROADWAY DESIGN ENGINEER CLINTON J. MORGAN SEAL 20147 024929 NORTH CAROLINA PROFESSIONAL ENGINEER Document 5/2018	HYDRAULICS ENGINEER FRANK F. FLEMING SEAL 20147 NORTH CAROLINA PROFESSIONAL ENGINEER Document 5/2018
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



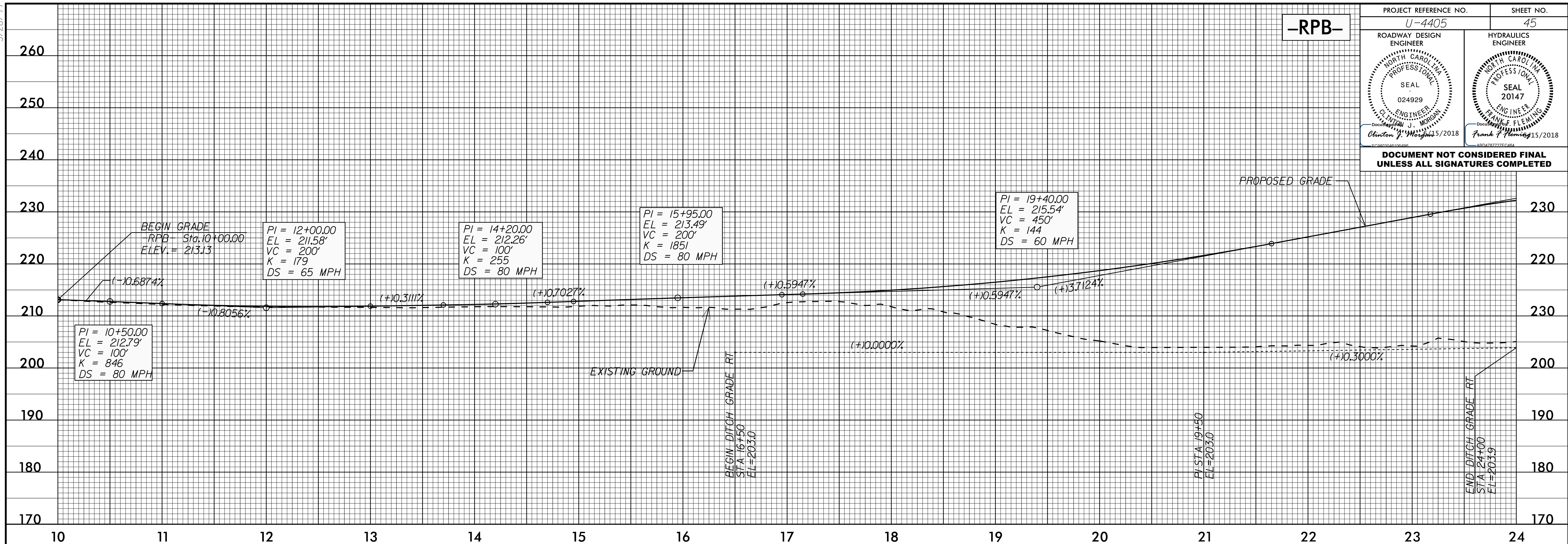
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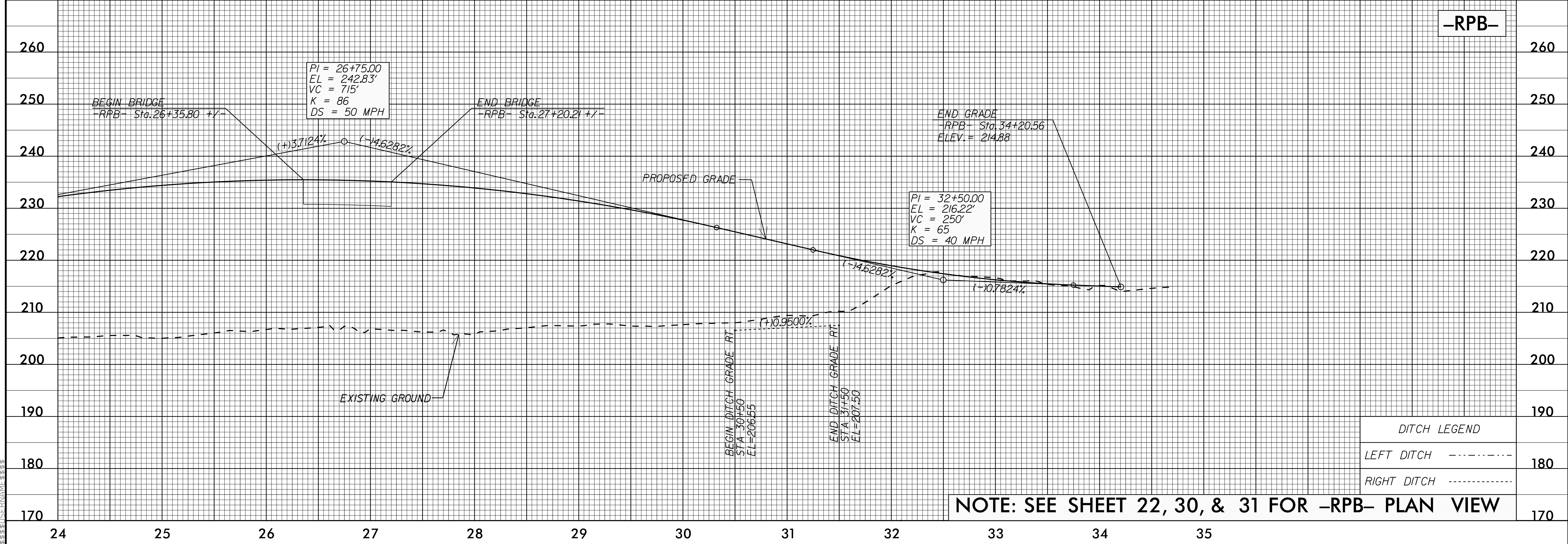
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PROJECT REFERENCE NO. U-4405	SHEET NO. 45
ROADWAY DESIGN ENGINEER SEAL 20147 CLINTON J. MORROW DocuSign 5/15/2018	HYDRAULICS ENGINEER SEAL 20147 FRANK FLEMING DocuSign 5/15/2018

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-RPB-



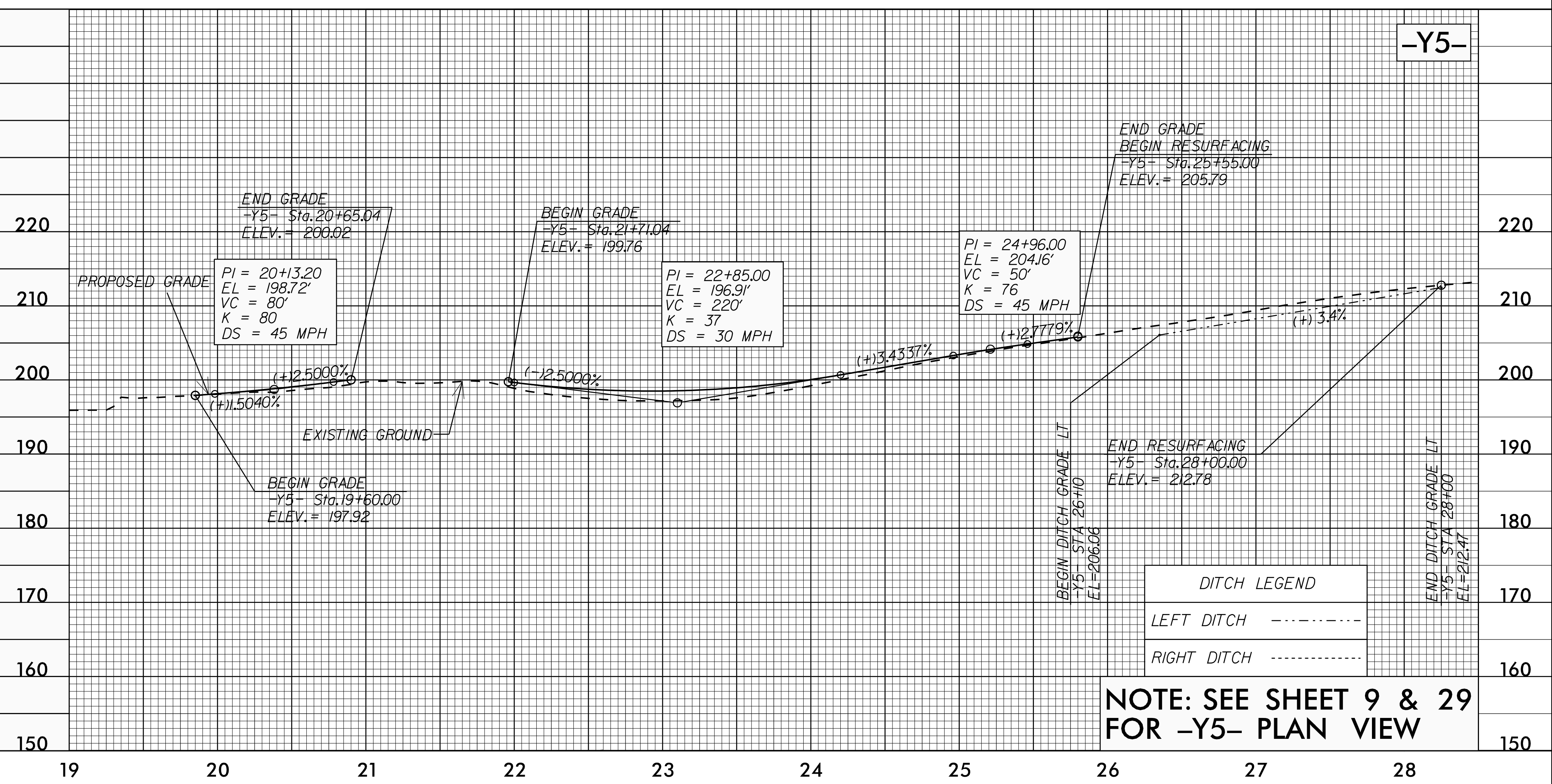
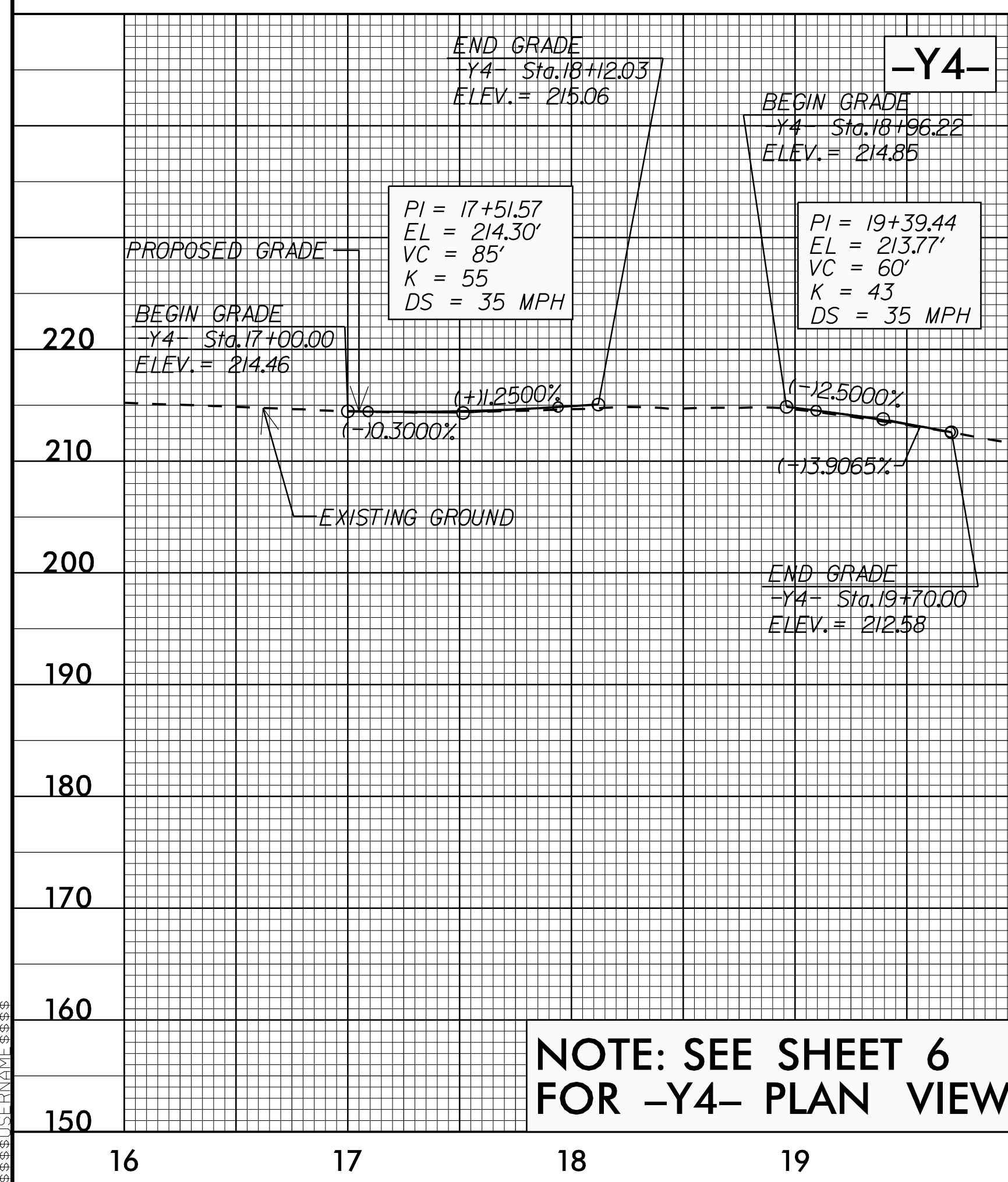
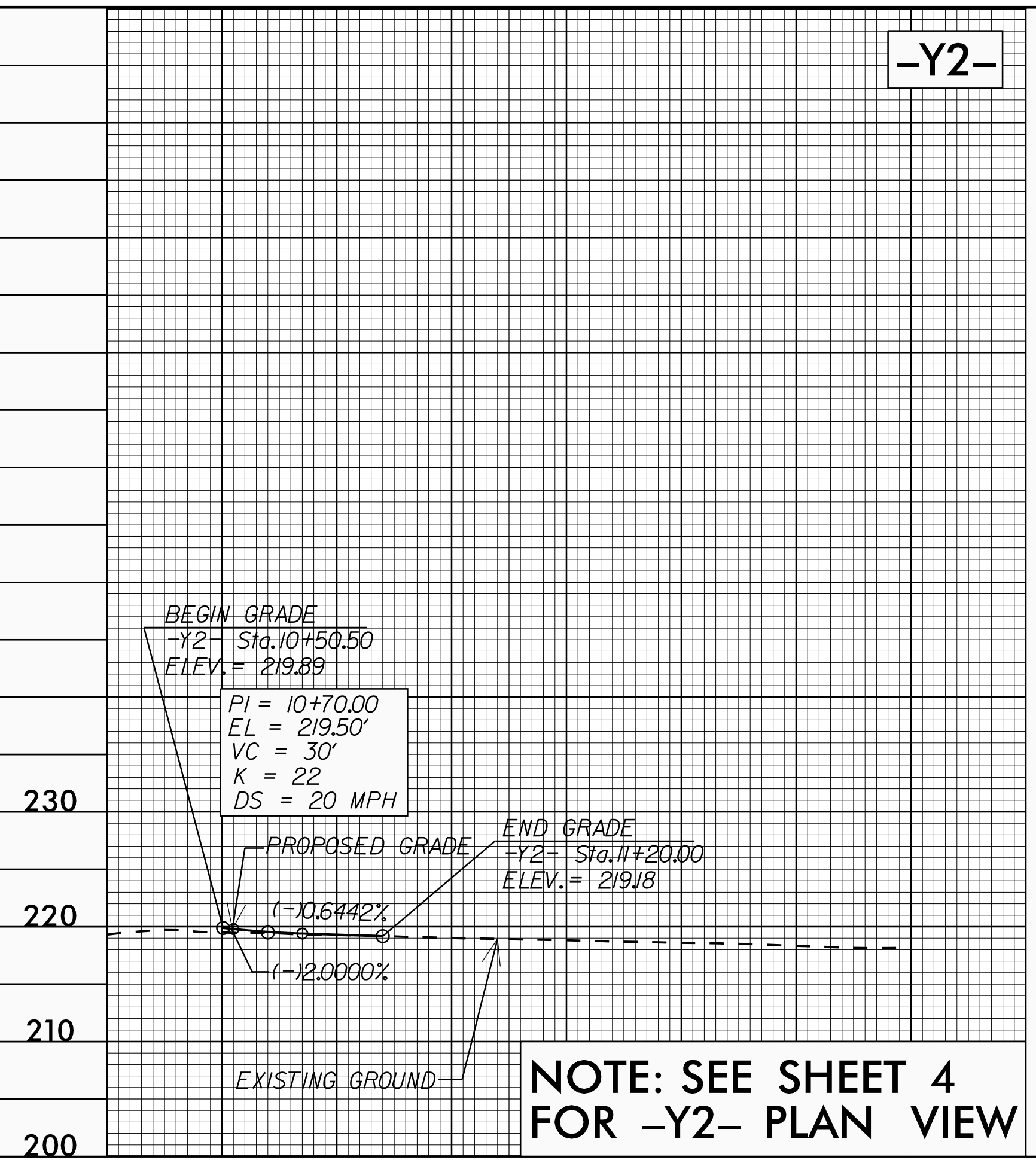
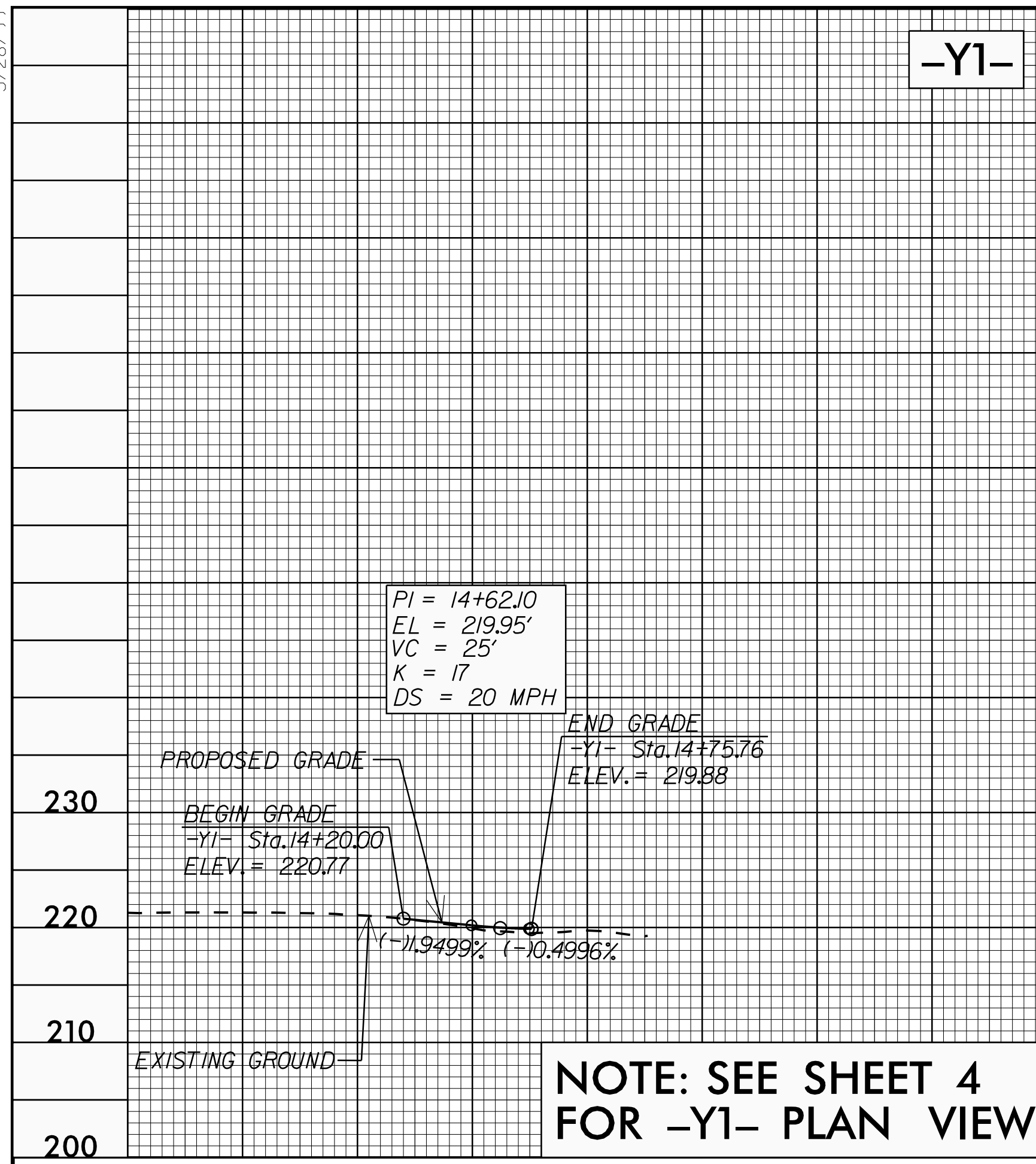
DITCH LEGEND	
LEFT DITCH	-----
RIGHT DITCH	-----

NOTE: SEE SHEET 22, 30, & 31 FOR -RPB- PLAN VIEW

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PROJECT REFERENCE NO. U-4405	SHEET NO. 46
ROADWAY DESIGN ENGINEER CLINTON J. MORROW SEAL 024929 NORTH CAROLINA PROFESSIONAL ENGINEER 5/2018	HYDRAULICS ENGINEER FRANK F. FLEMING SEAL 20147 NORTH CAROLINA PROFESSIONAL ENGINEER 5/2018
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



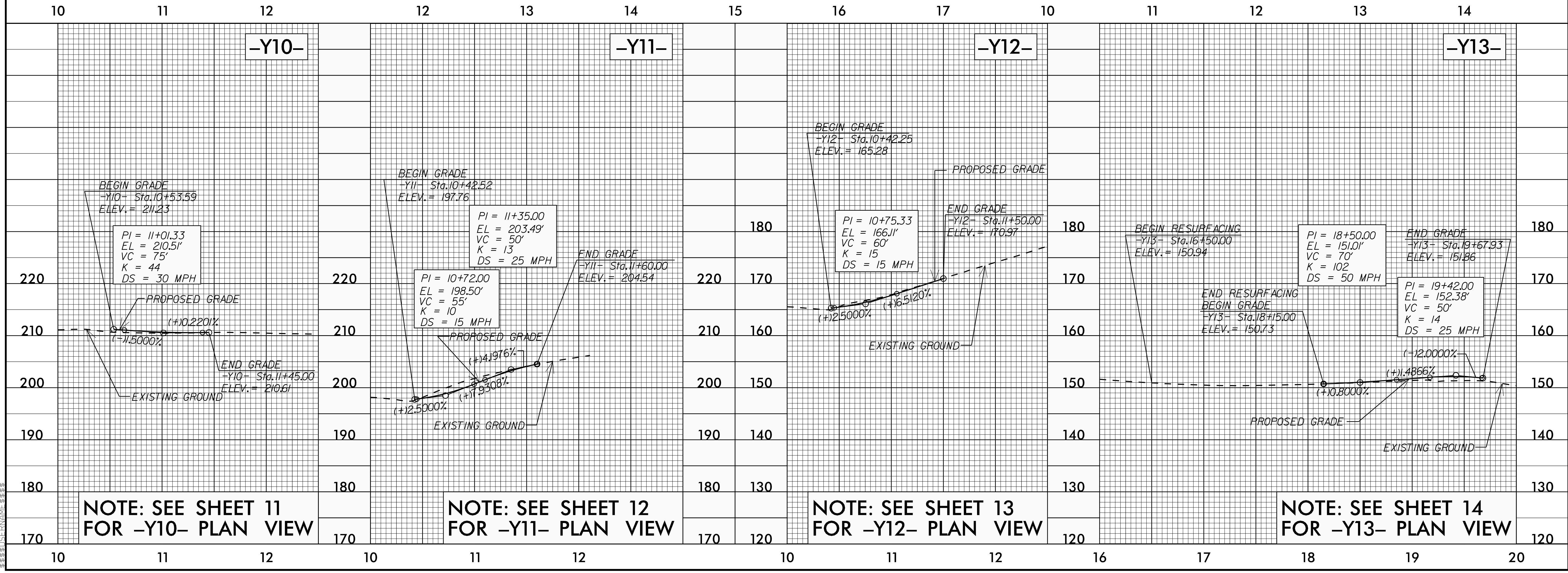
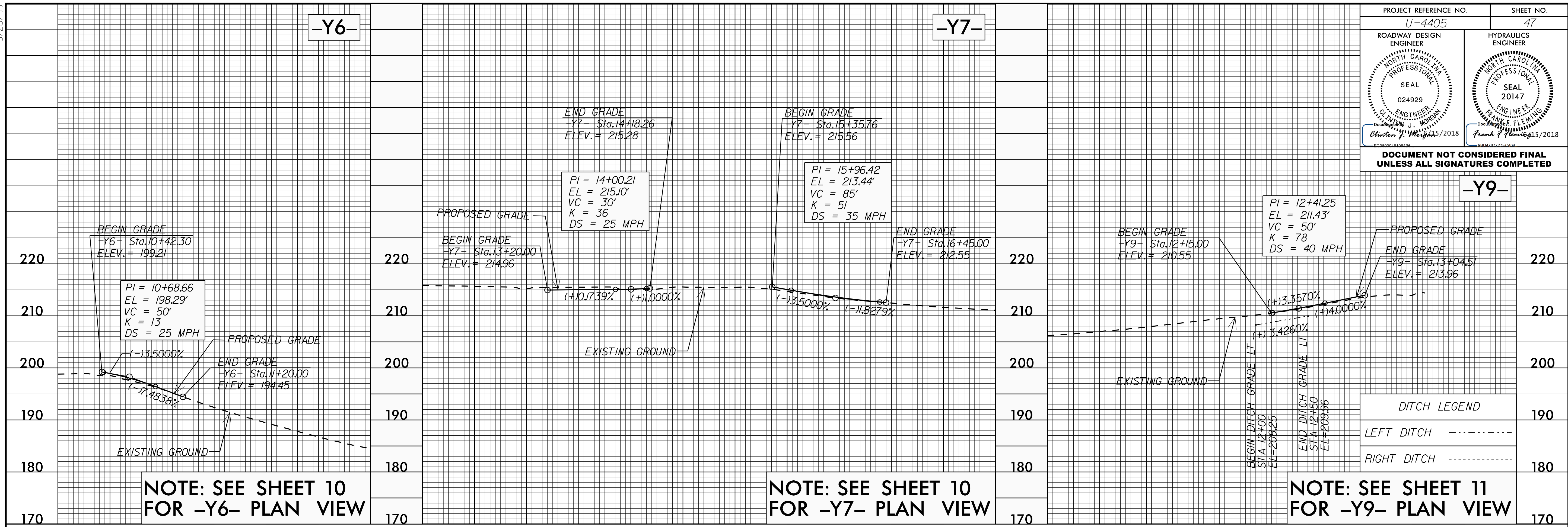
DITCH LEGEND

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RIGHT DITCH	-----

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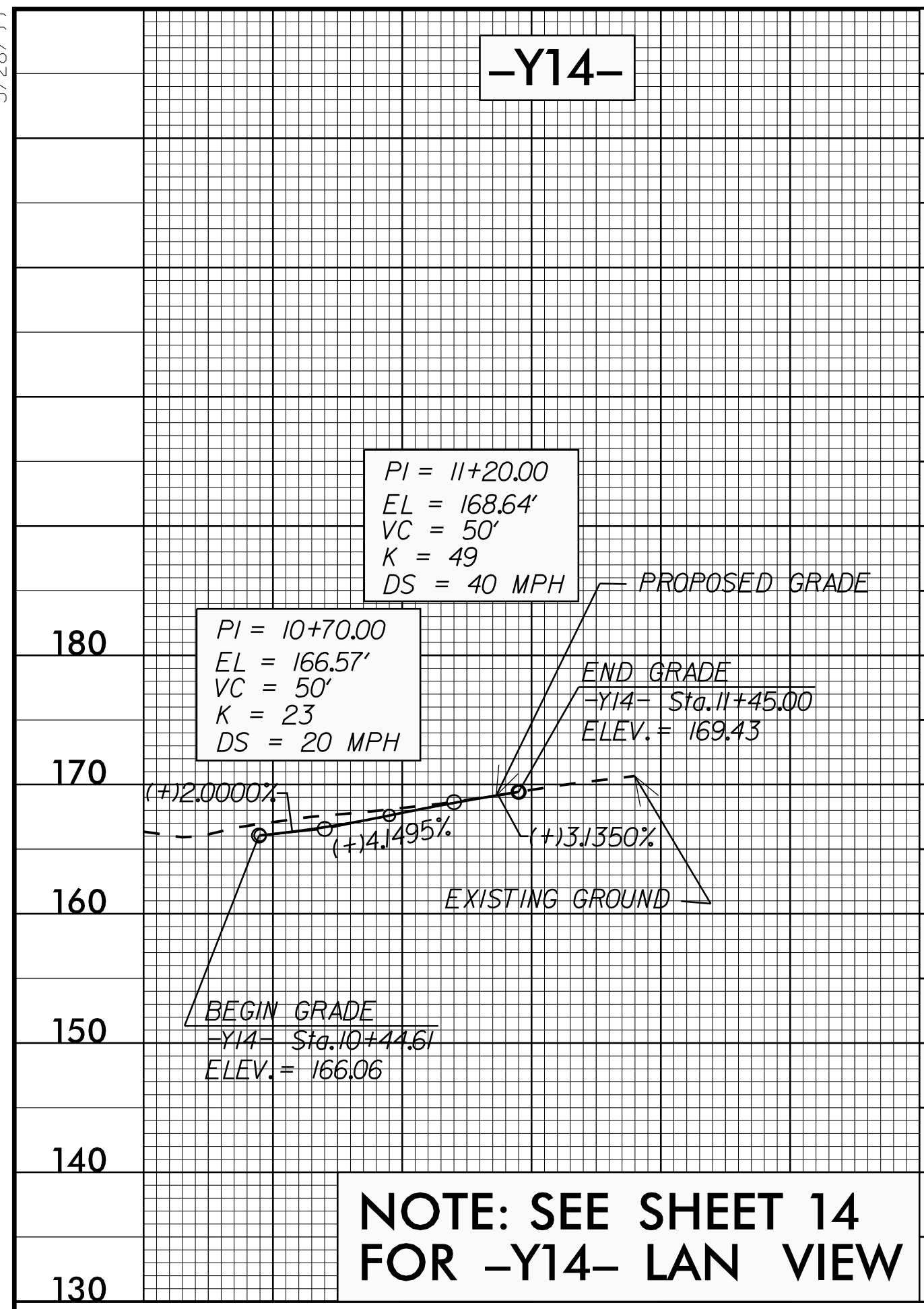
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ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 024929 Clinton J. Morgan 5/15/2018	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 20147 Frank F. Fleming 5/15/2018
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



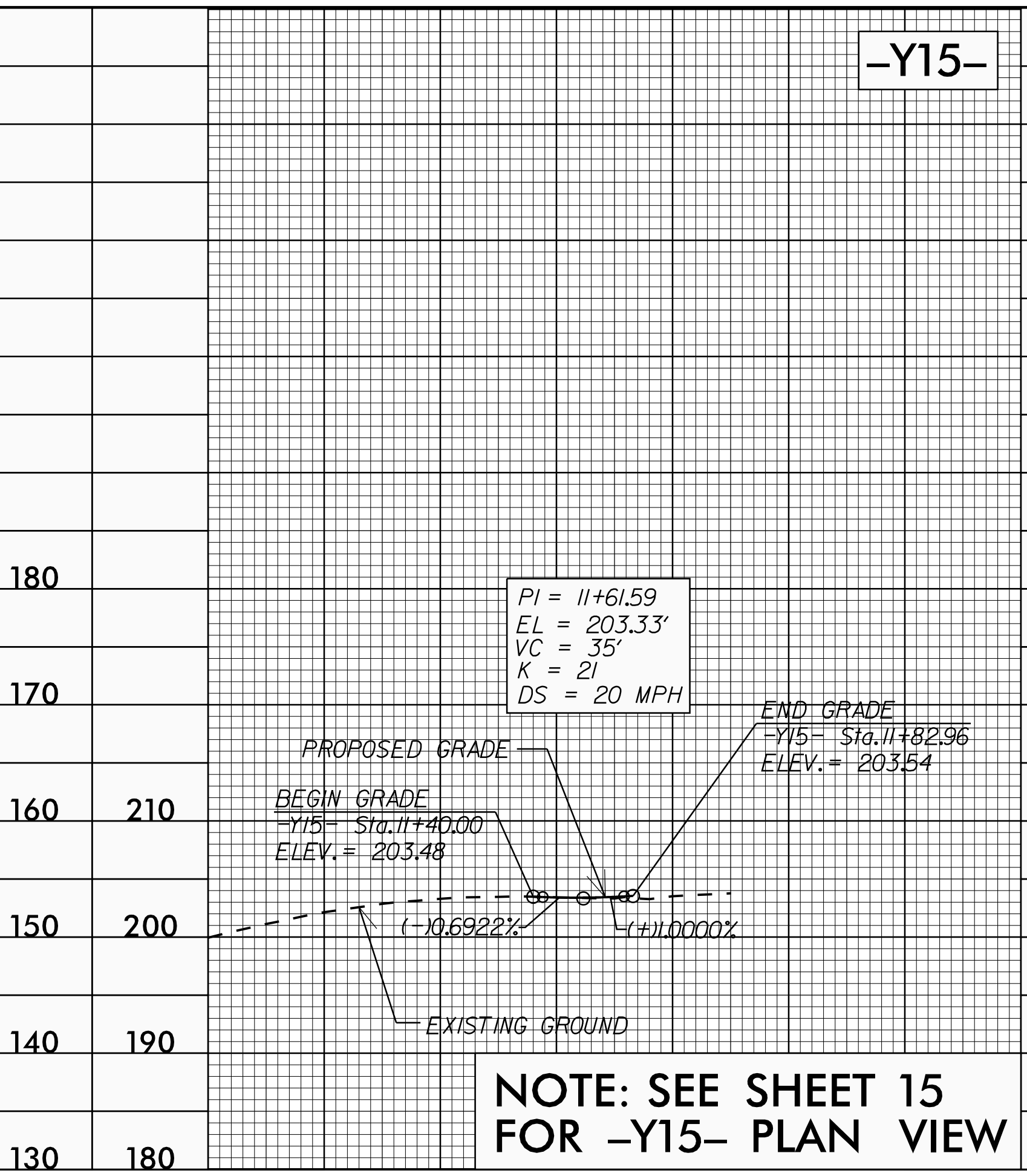
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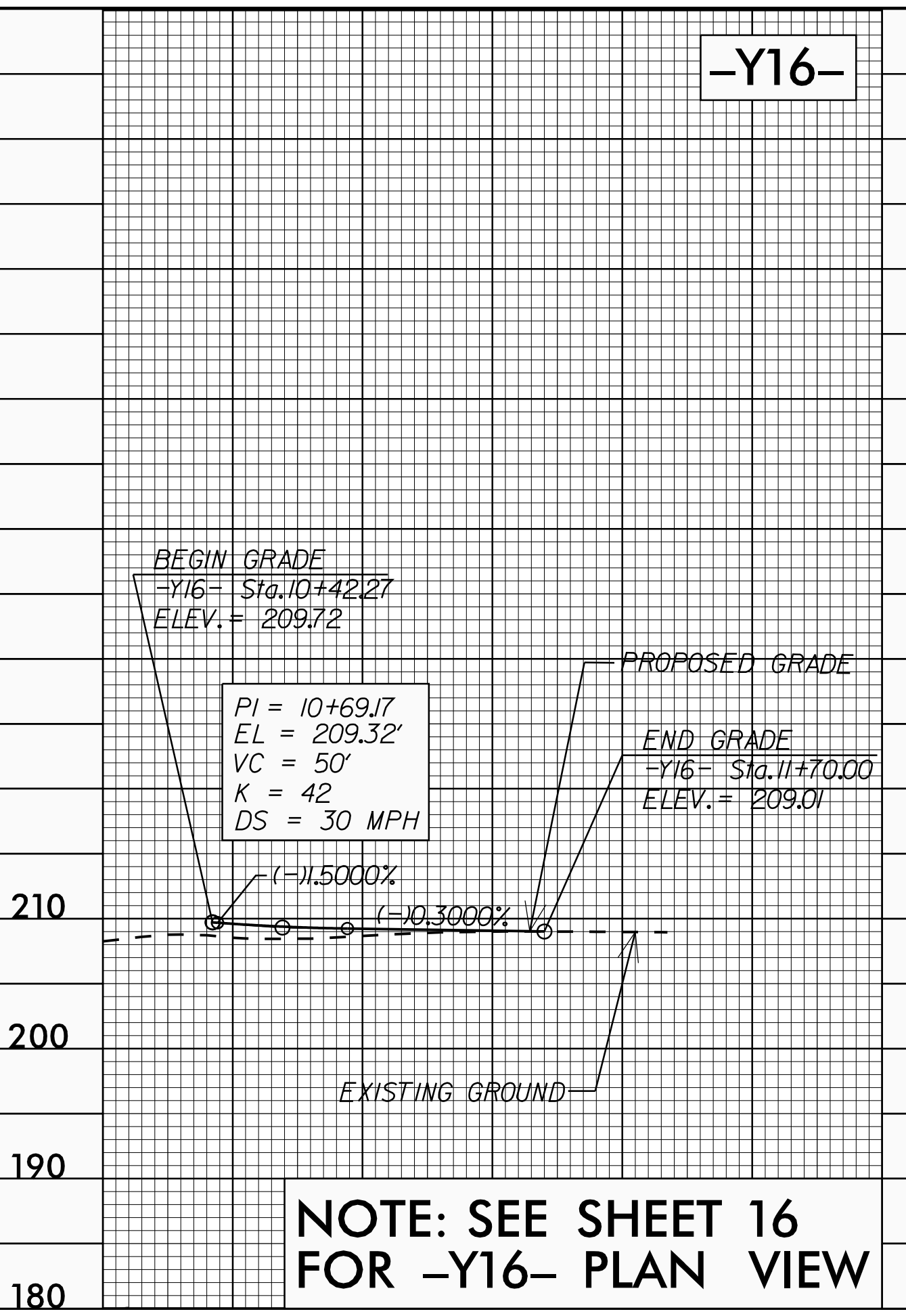
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ROADWAY DESIGN ENGINEER SEAL 024929 CLINTON J. MORGAN 5/2018	HYDRAULICS ENGINEER SEAL 20147 FRANK F. FLEMING 5/2018
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



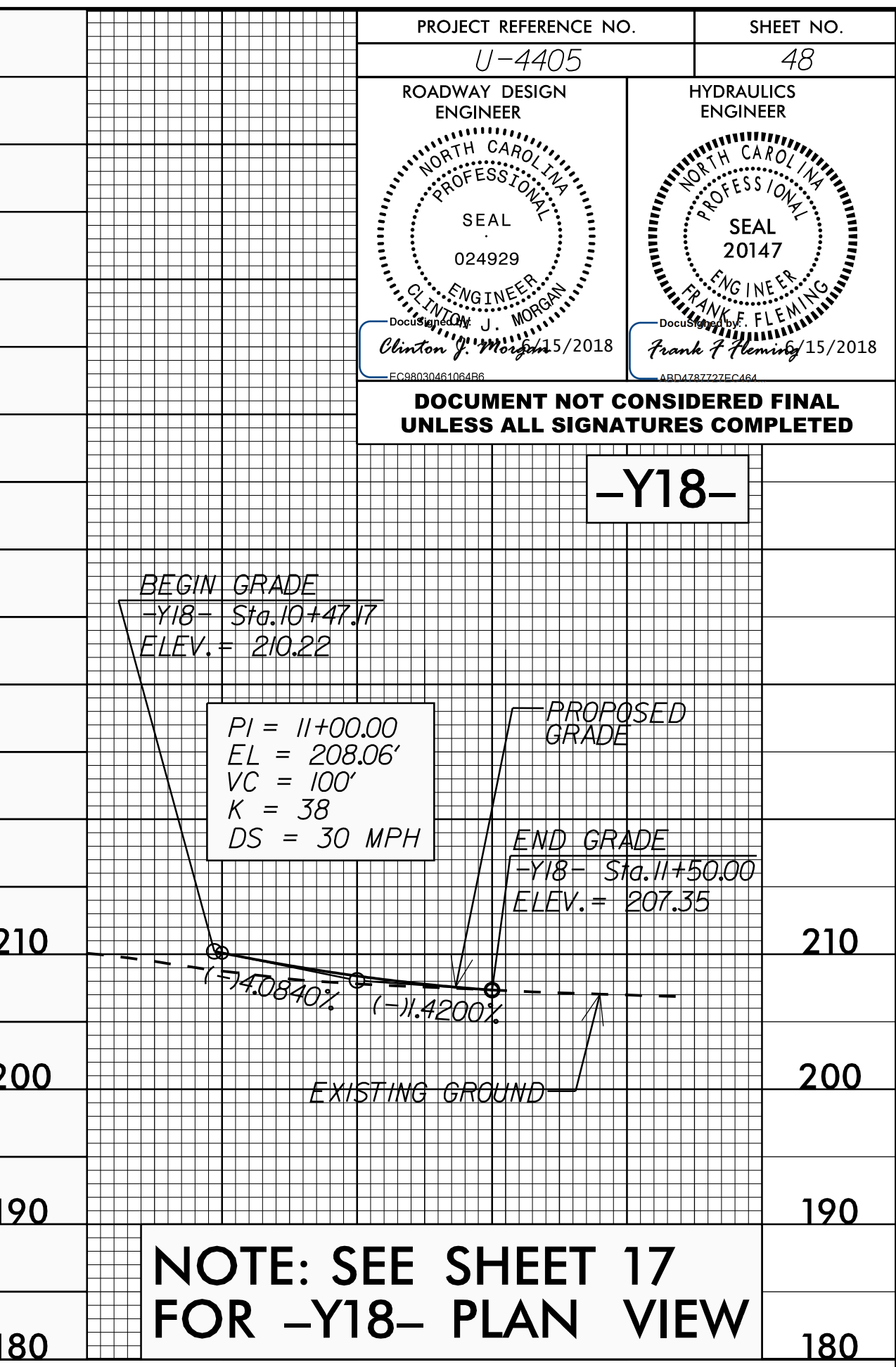
NOTE: SEE SHEET 14 FOR -Y14- LAN VIEW



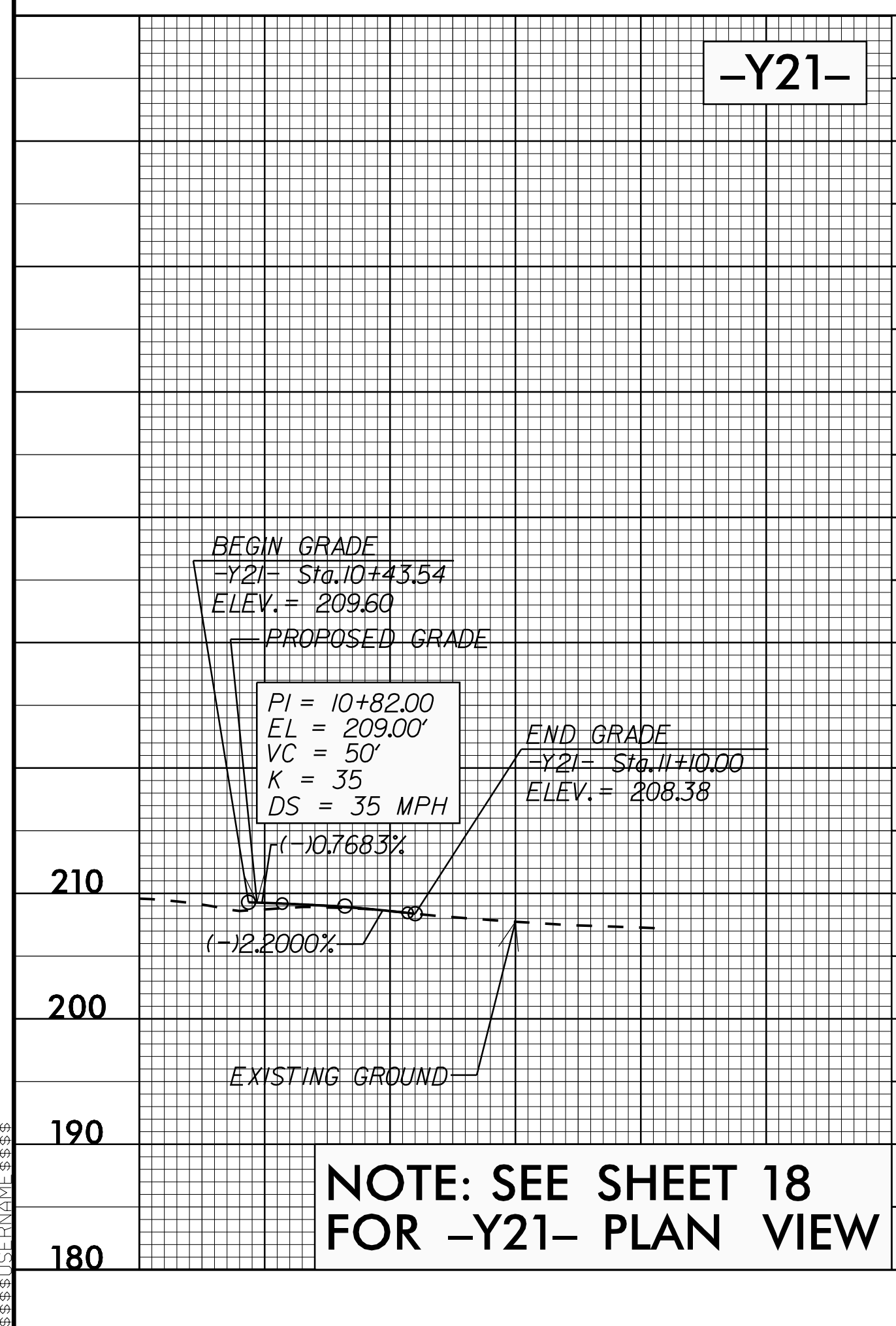
NOTE: SEE SHEET 15 FOR -Y15- PLAN VIEW



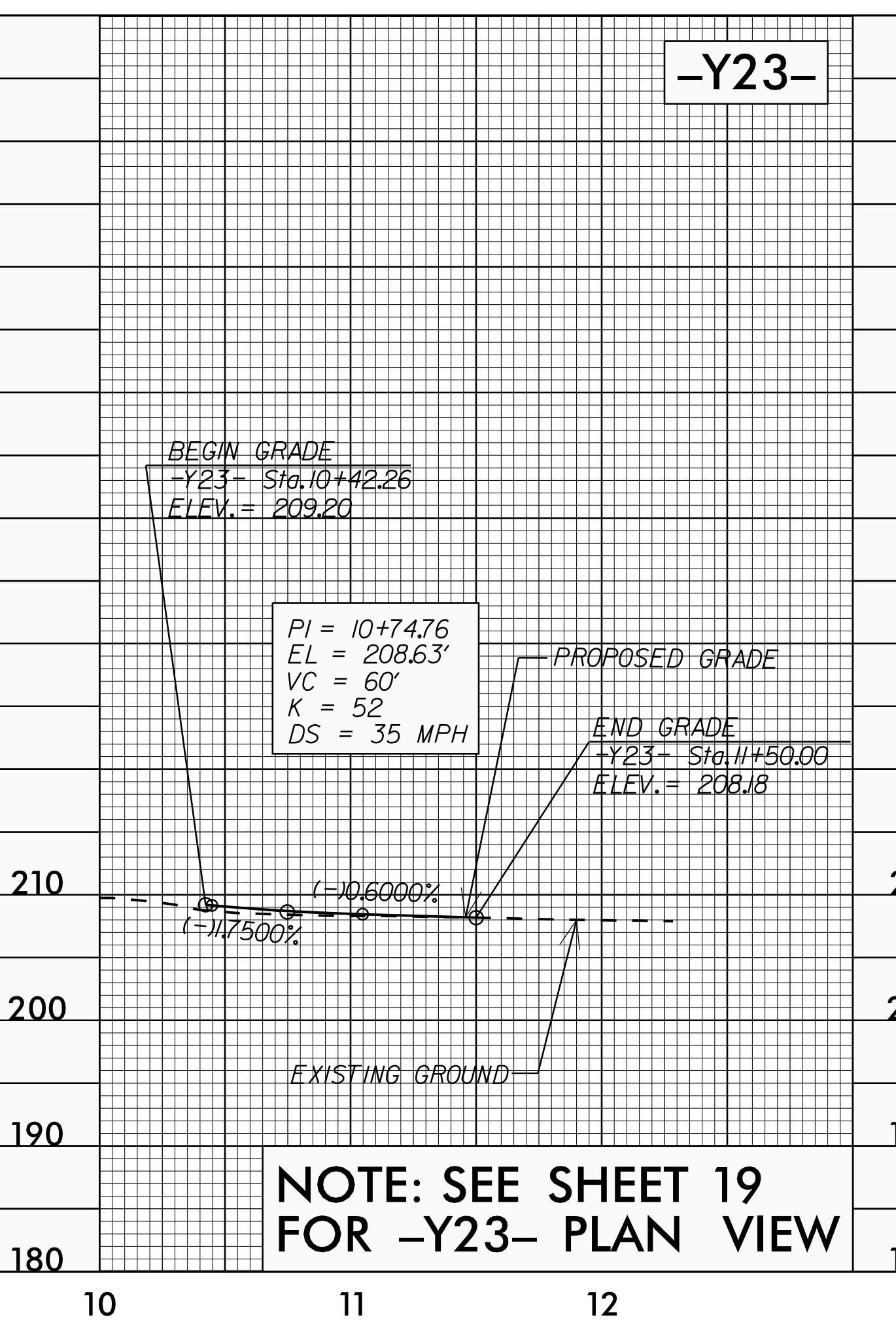
NOTE: SEE SHEET 16 FOR -Y16- PLAN VIEW



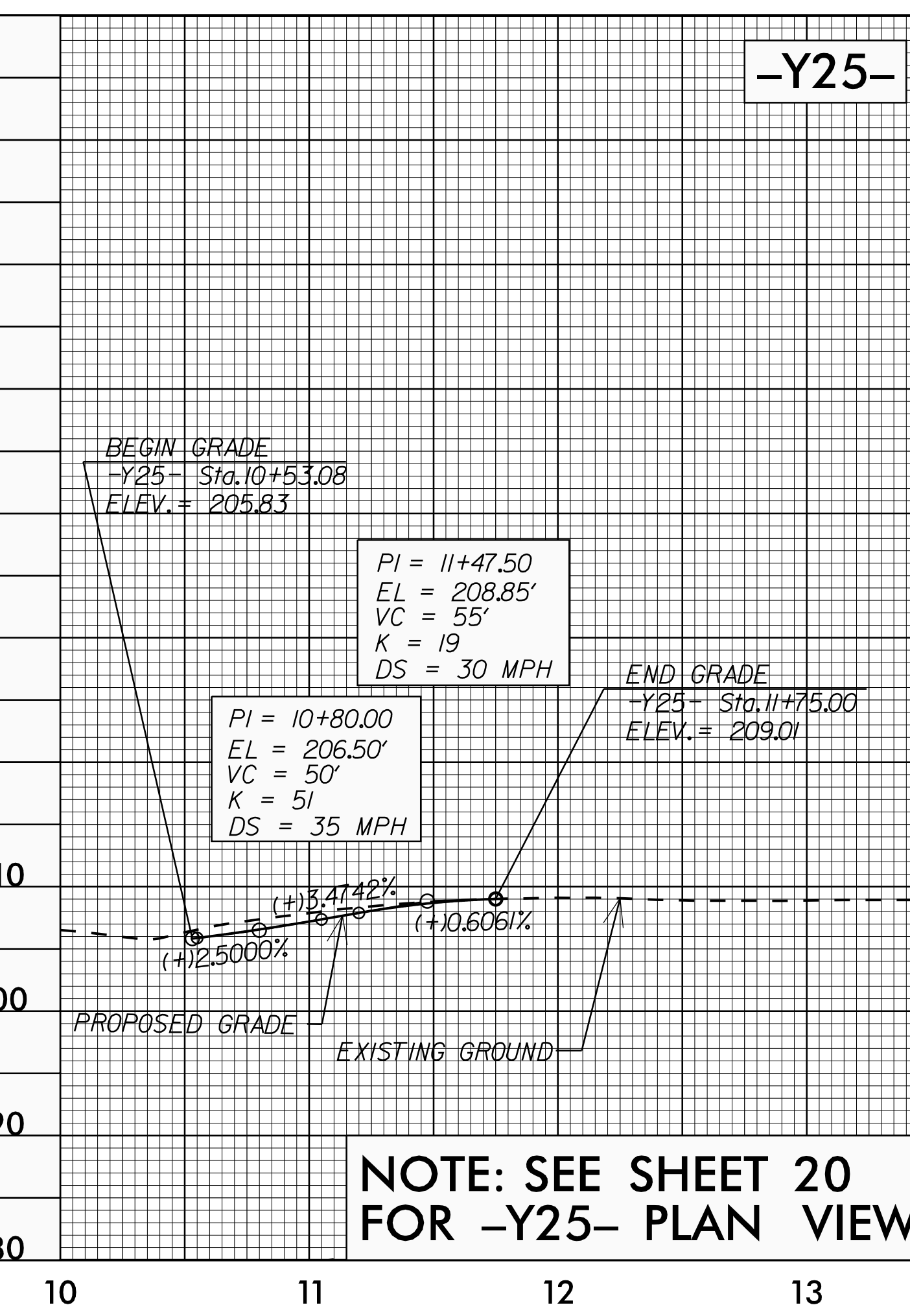
NOTE: SEE SHEET 17 FOR -Y18- PLAN VIEW



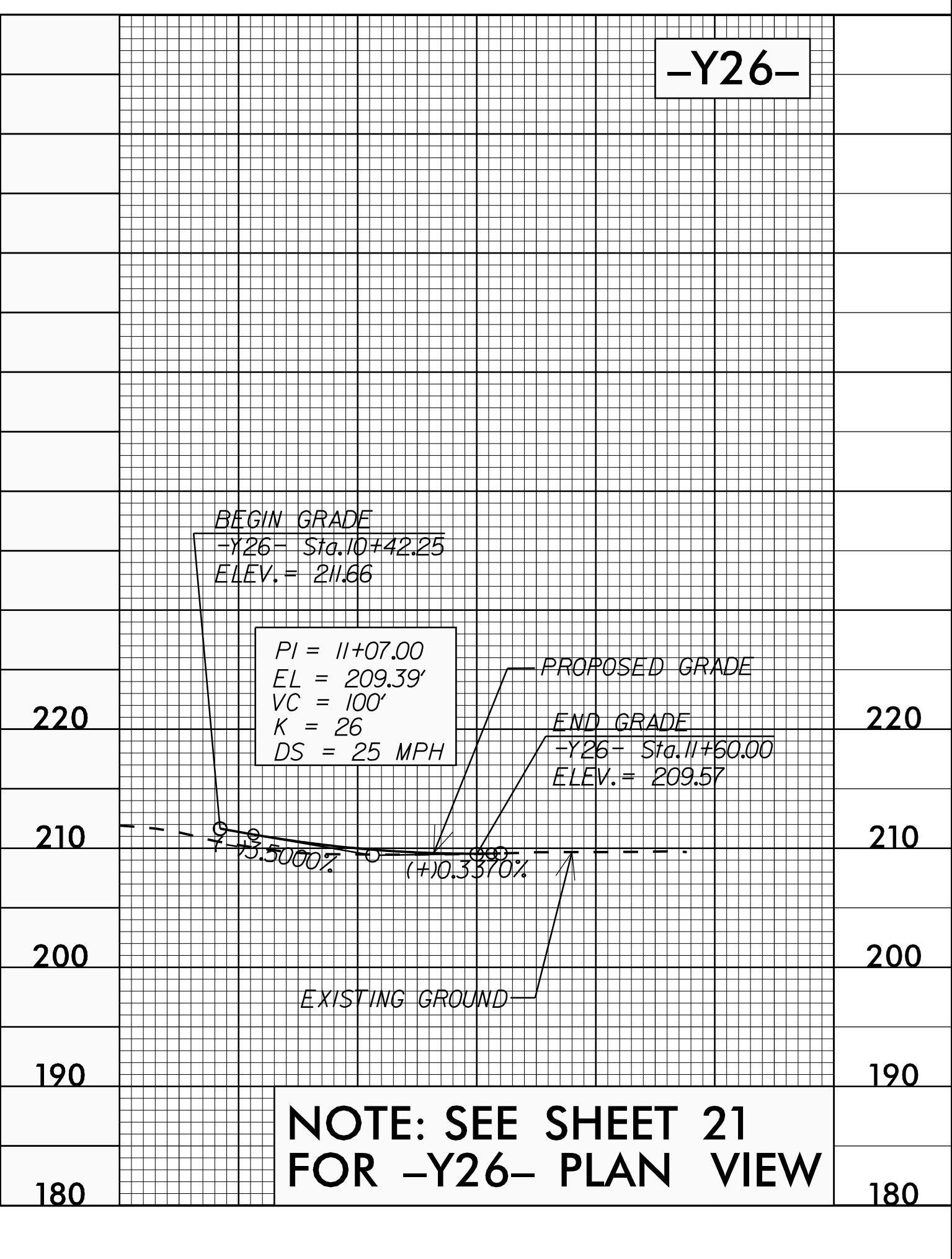
NOTE: SEE SHEET 18 FOR -Y21- PLAN VIEW



NOTE: SEE SHEET 19 FOR -Y23- PLAN VIEW



NOTE: SEE SHEET 20 FOR -Y25- PLAN VIEW

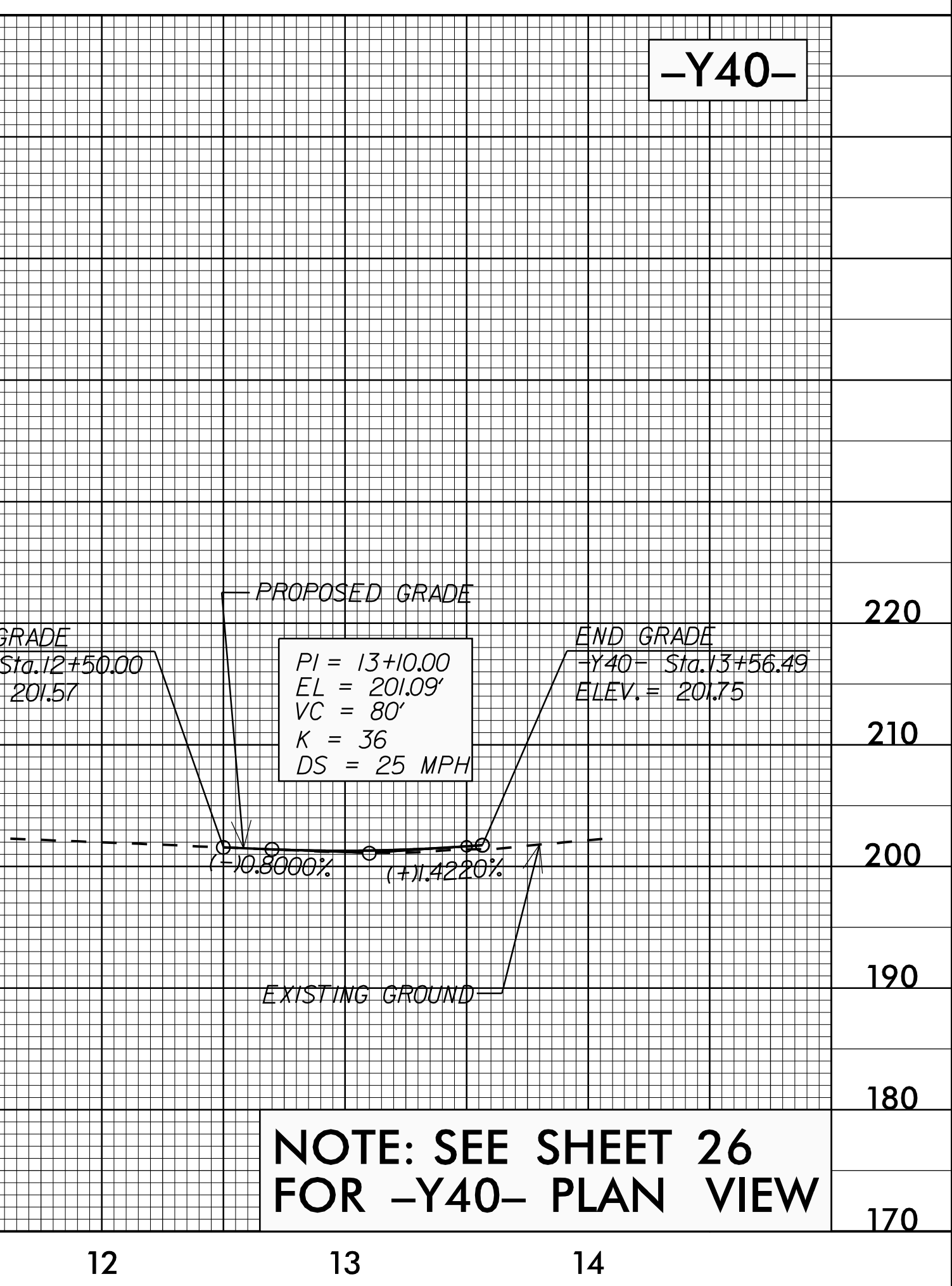
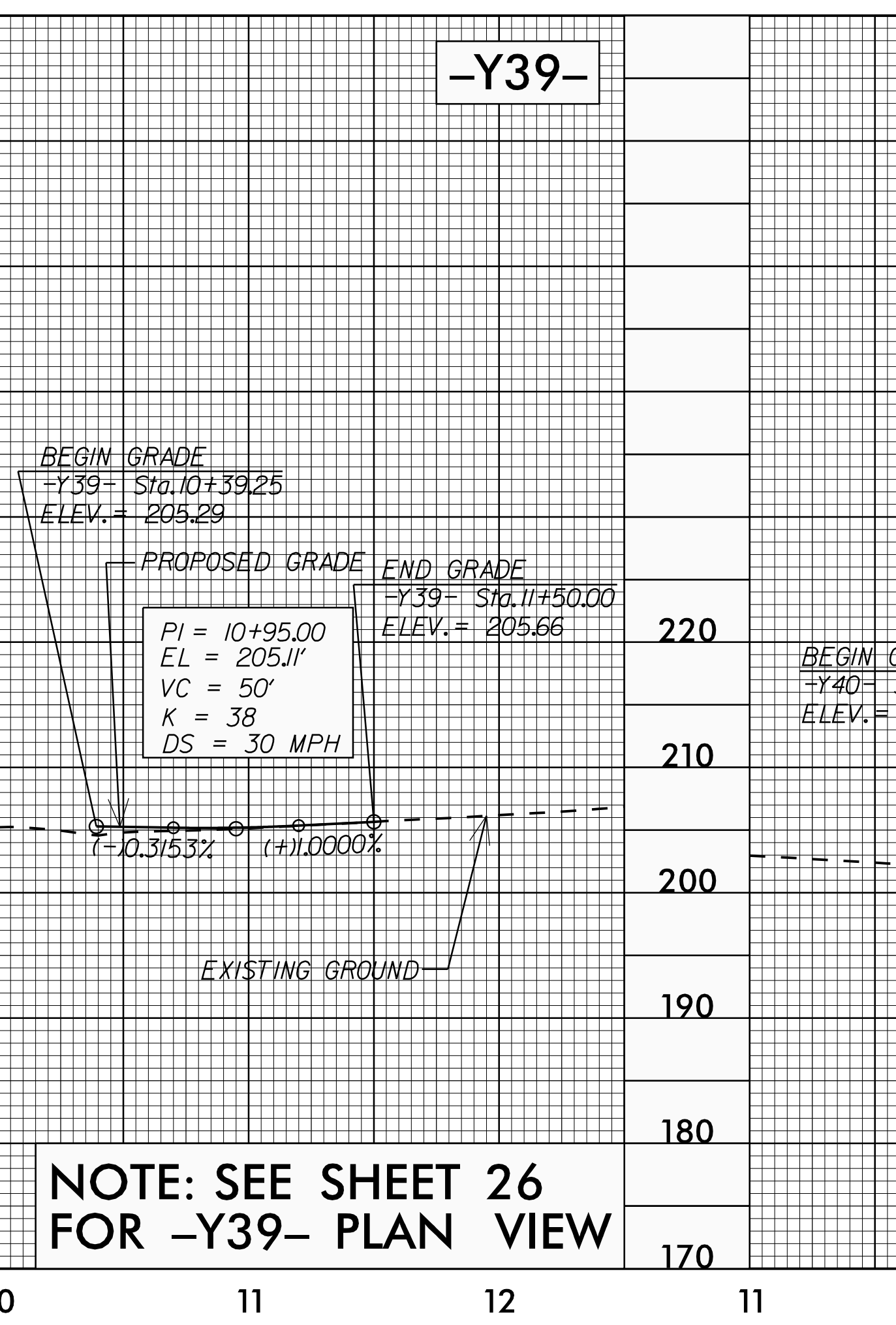
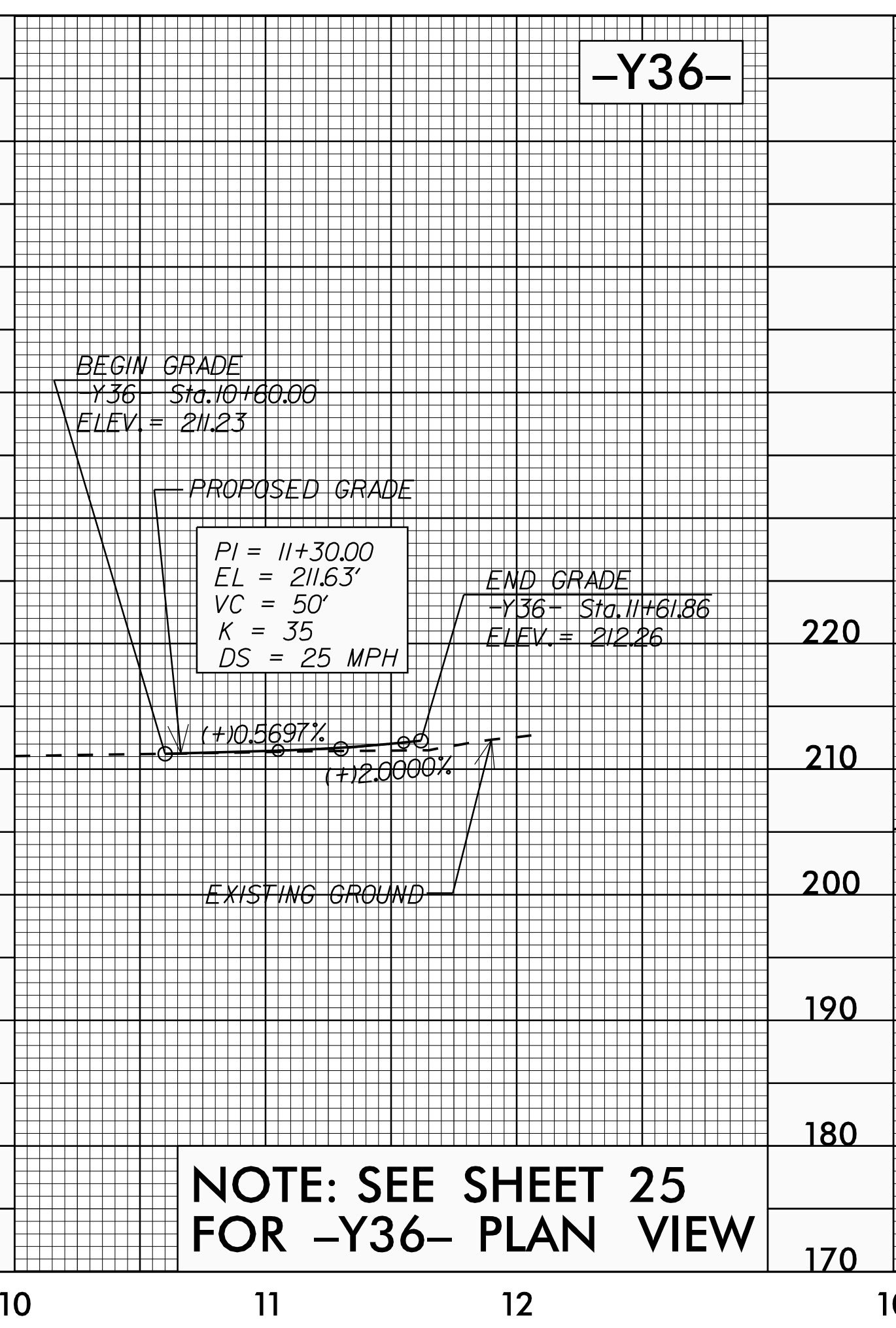
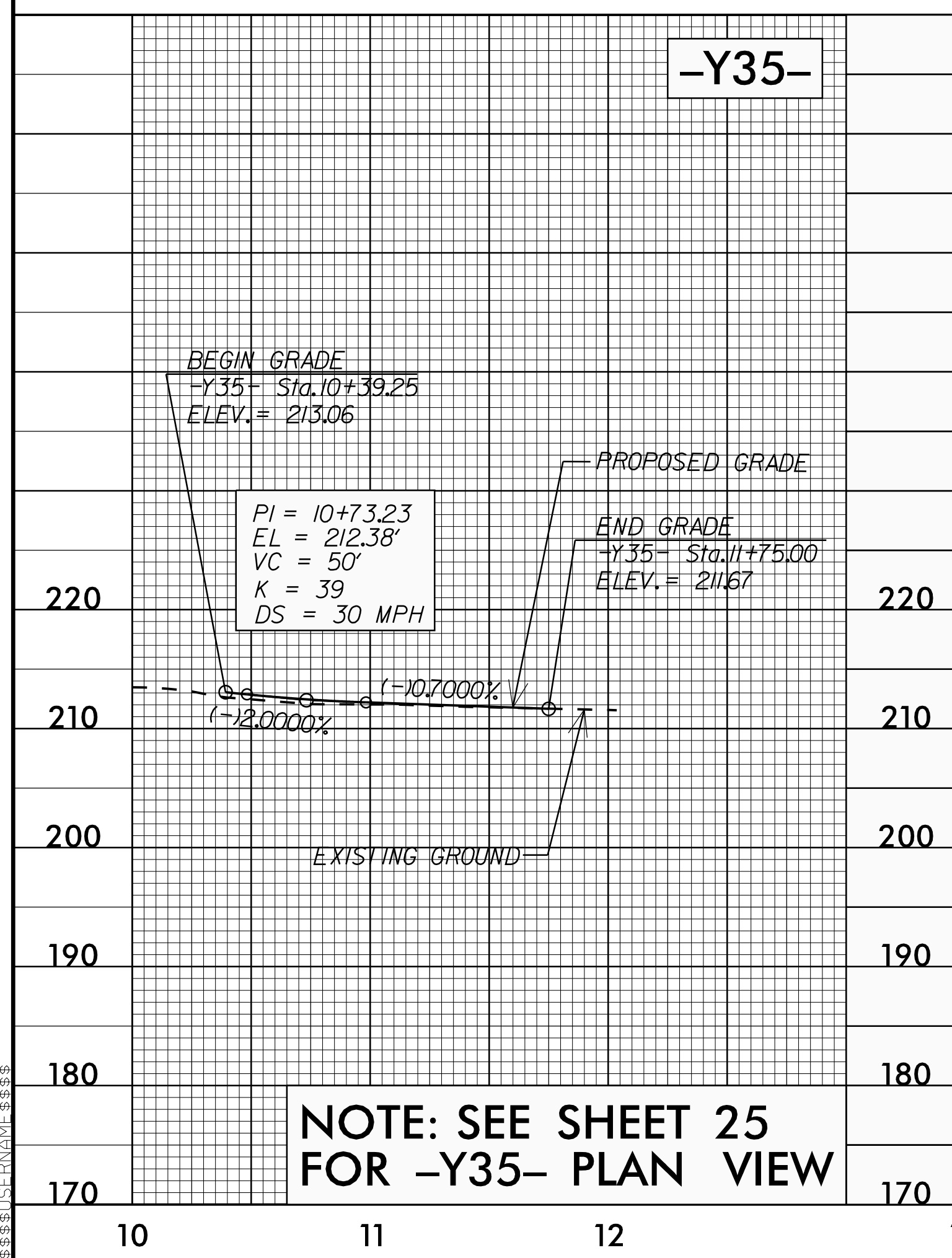
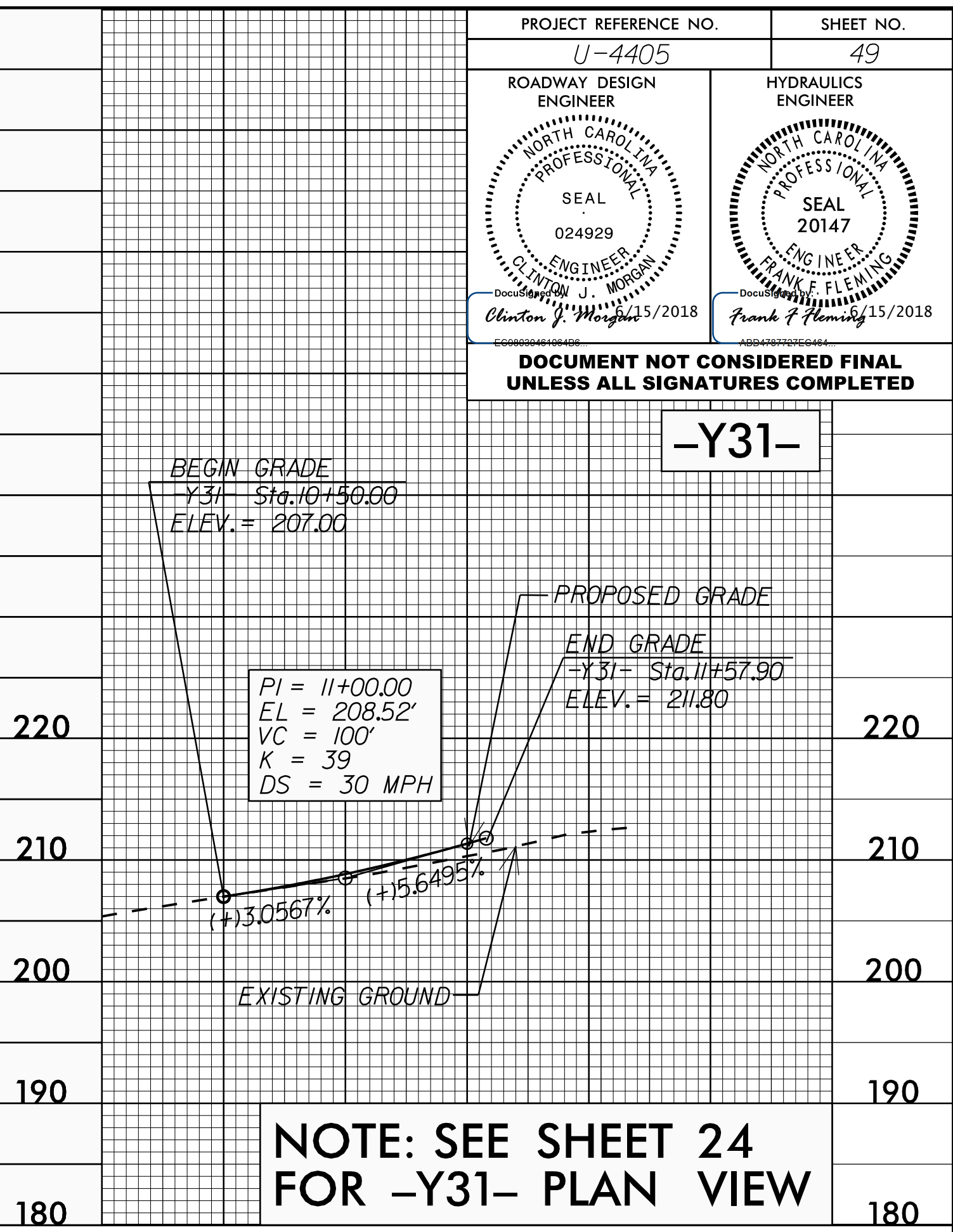
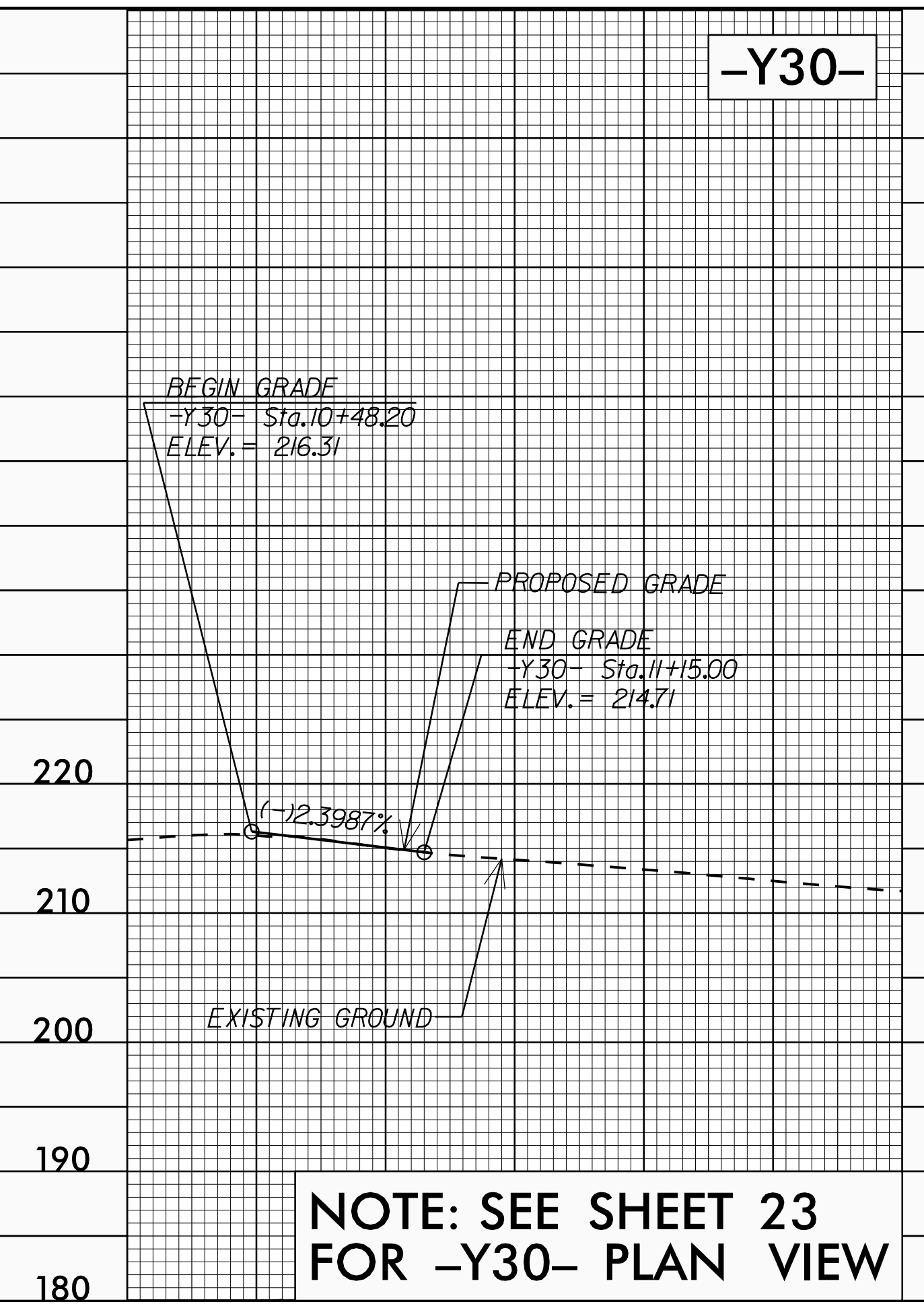
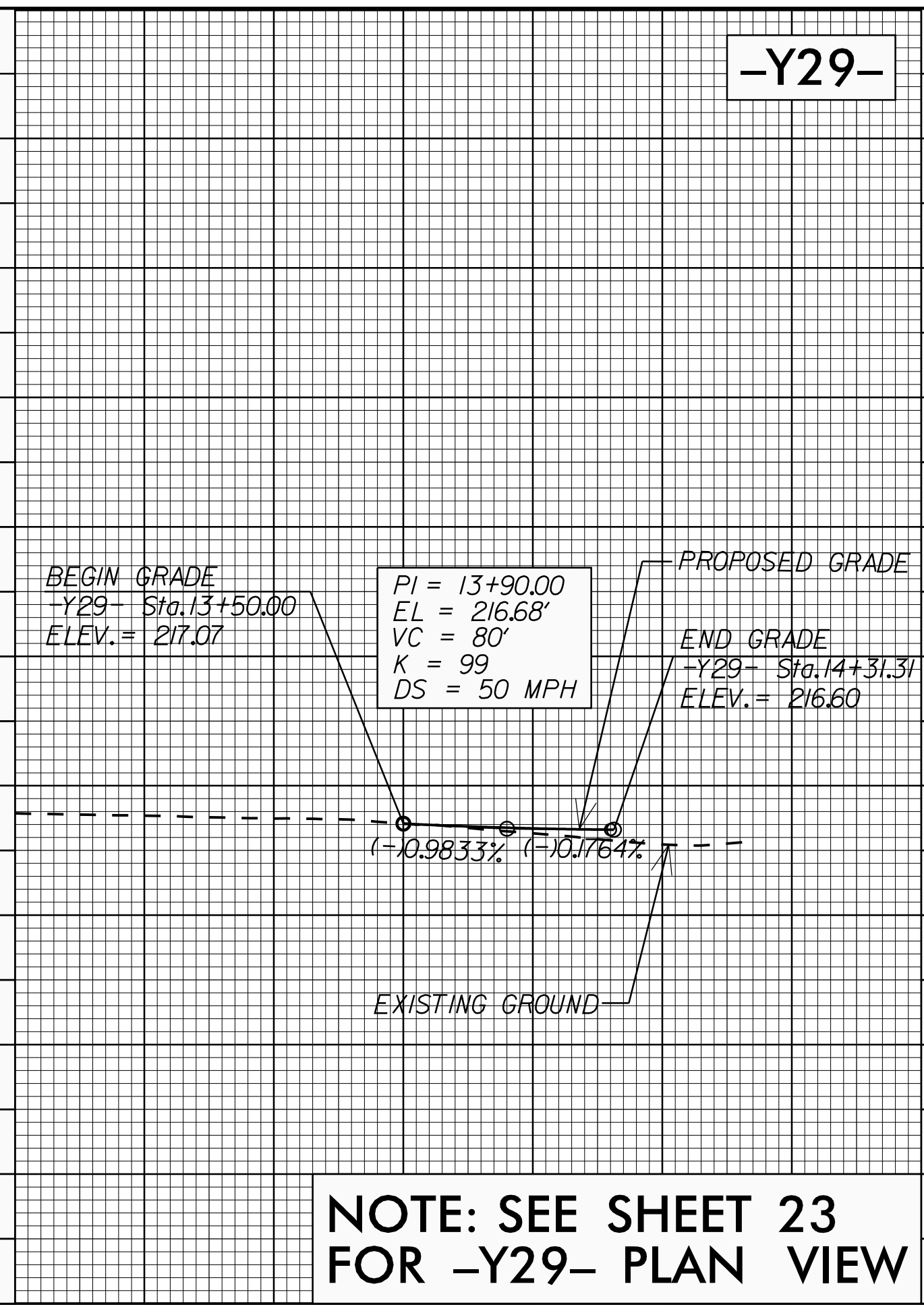
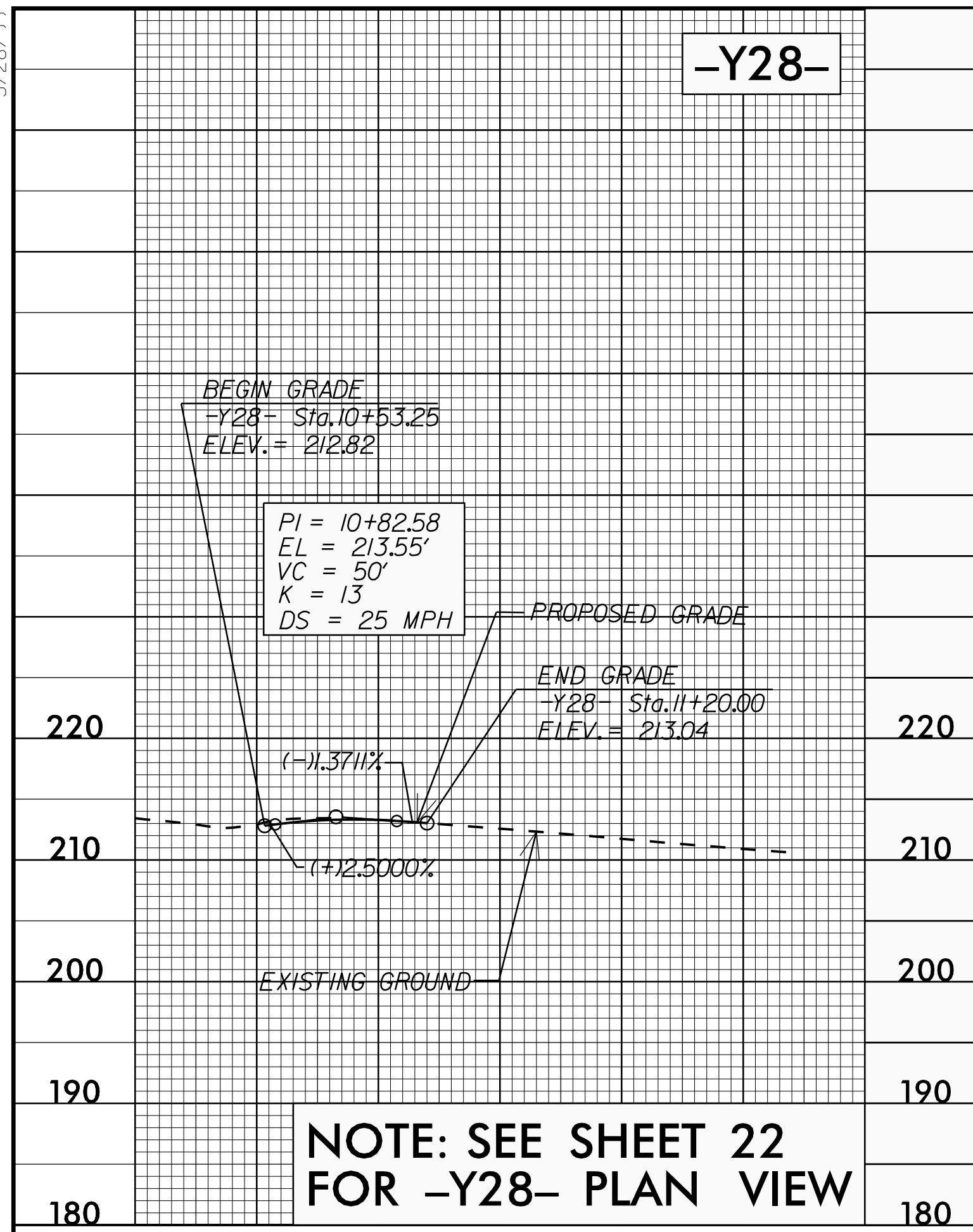


NOTE: SEE SHEET 21 FOR -Y26- PLAN VIEW

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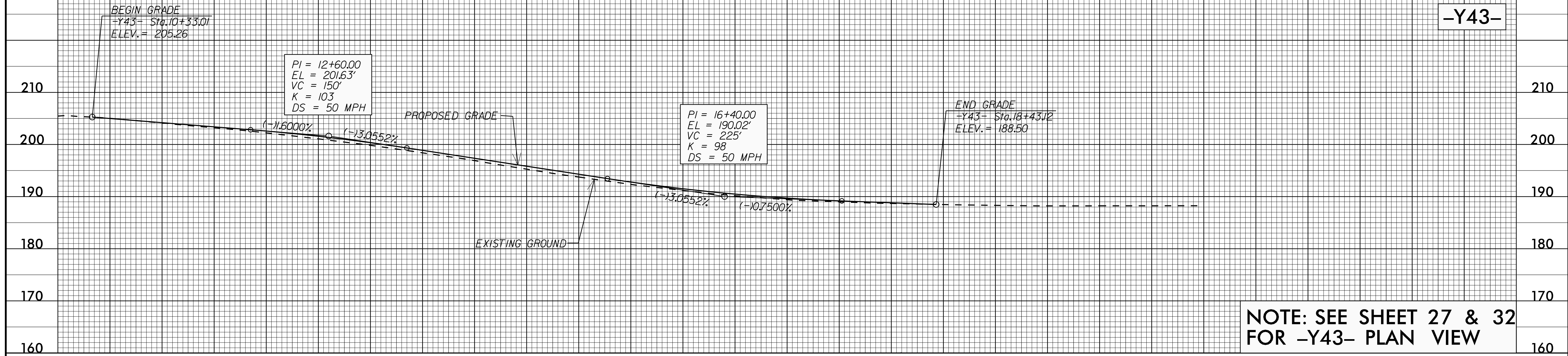
PROJECT REFERENCE NO. U-4405	SHEET NO. 49
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 024929 Clinton J. Morison 15/2018	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 20147 Frank F. Fleming 15/2018
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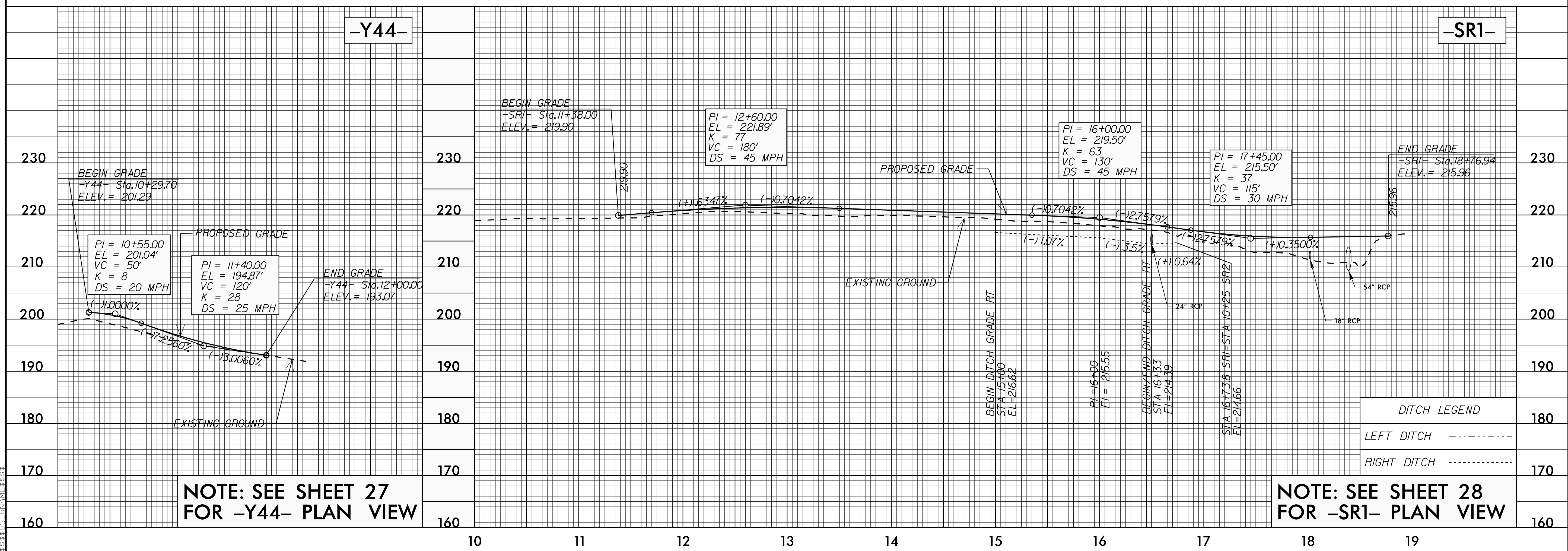
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PROJECT REFERENCE NO. U-4405	SHEET NO. 50
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 024929 Clinton J. Morgan 5/15/2018	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 20147 Frank J. Fleming 5/15/2018
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



NOTE: SEE SHEET 27 & 32 FOR -Y43- PLAN VIEW



NOTE: SEE SHEET 27 FOR -Y44- PLAN VIEW

NOTE: SEE SHEET 28 FOR -SR1- PLAN VIEW

DITCH LEGEND

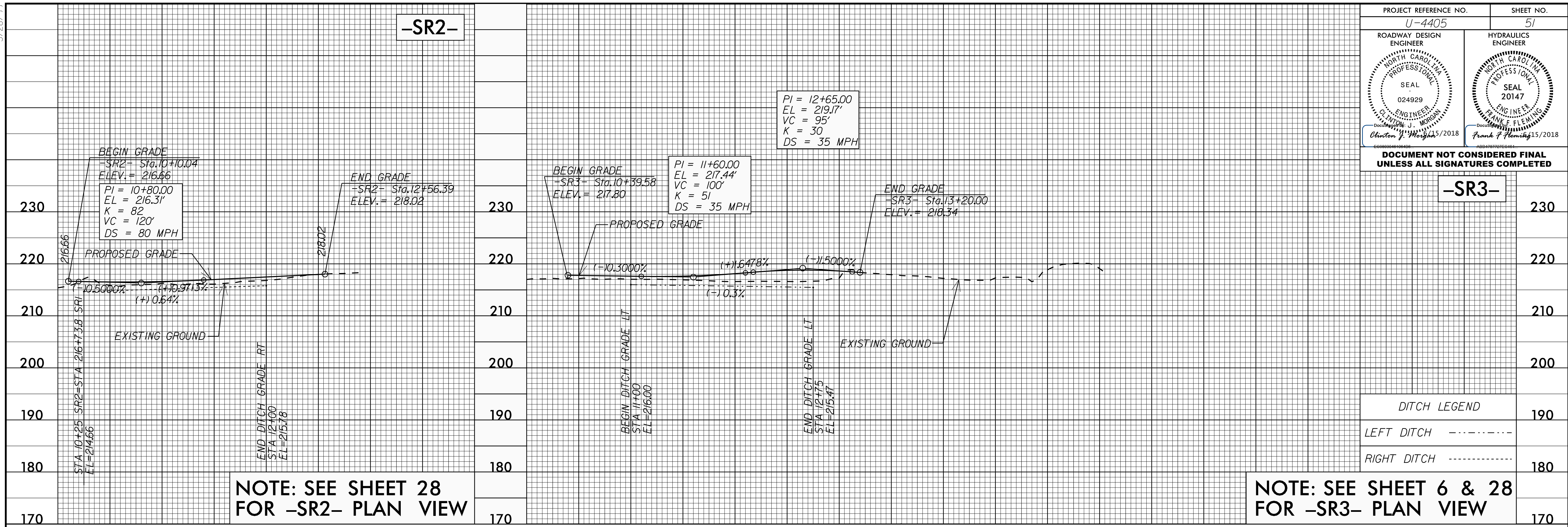
LEFT DITCH	-----
RIGHT DITCH	-----

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PROJECT REFERENCE NO. U-4405	SHEET NO. 51
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 024929 Clinton J. Morgan 5/2018	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 20147 Frank F. Fleming 5/2018

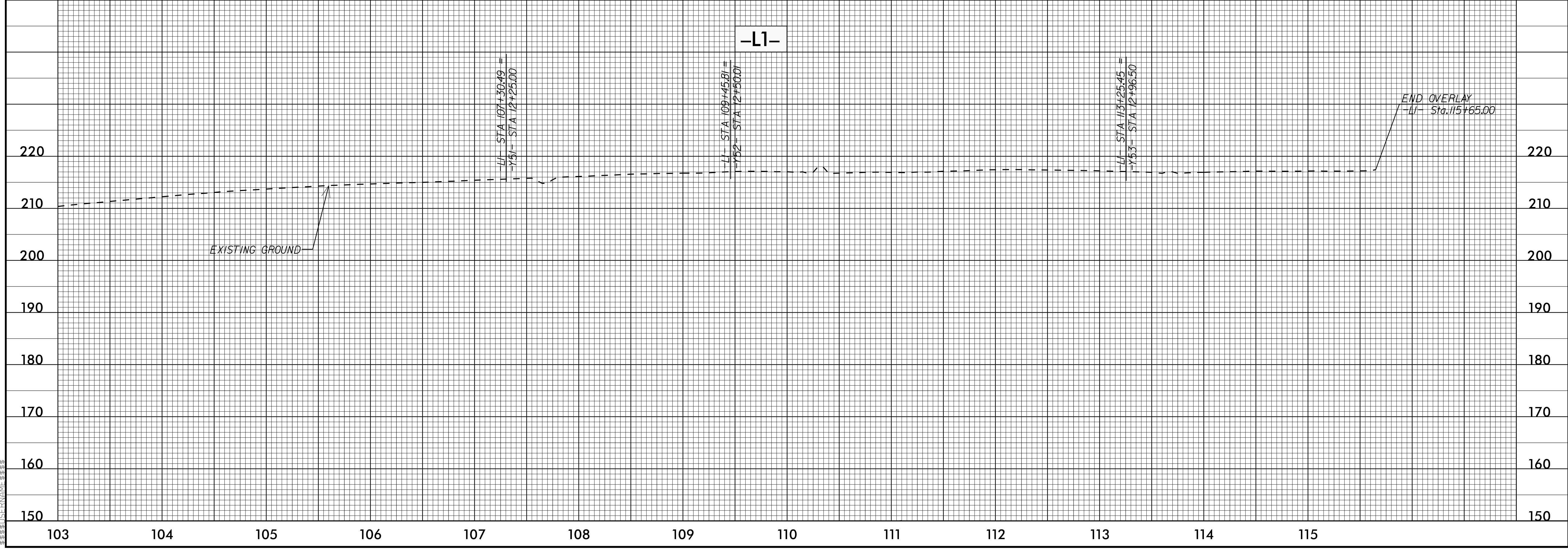
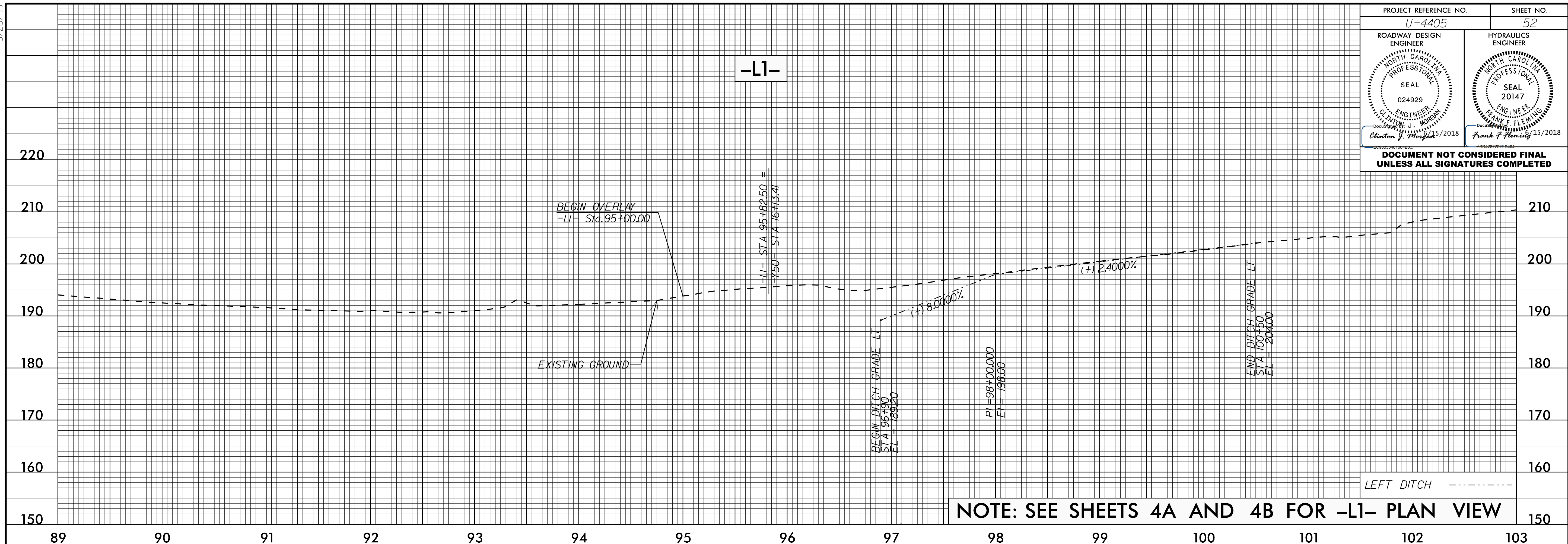
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PROJECT REFERENCE NO. U-4405	SHEET NO. 52
ROADWAY DESIGN ENGINEER CLINTON J. MORROW SEAL 024929 NORTH CAROLINA PROFESSIONAL ENGINEER Doc. 5/2018	HYDRAULICS ENGINEER FRANK F. FLEMING SEAL 20147 NORTH CAROLINA PROFESSIONAL ENGINEER Doc. 5/2018
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



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