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PROJECT REFERENCE NO.	SHEET NO.
R-2237C	21
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NOTE: SEE SHEET 4 FOR -L- PLAN

BM #1 -BL- STA. 24+79.11 8" SPIKE IN BASE OF 30" RED OAK LOCATED 69.28' RIGHT ELEV. 3038.18'

3046.64

STA. 356+00.00 -L-
BEGIN GRADE
EL. 3,015.83

(+)1.2902%

STA. 354+00.00 -L-
TIE TO EXISTING GRADE

OVERLAY

-L-

3,060 3,050 3,040 3,030 3,020 3,010 3,000 2,990 2,980 2,970

350 351 352 353 354 355 356 357 358 359 360

NOTE: SEES SHEETS 4 & 5 FOR -L- PLAN

3046.64

PI = 362+10.00
EL = 3,060.30'
VC = 150'
K = 316

(+)7.2902% (+)6.8160%

STA. 365+50.00 -L- BEG. DITCH GRADE (LT)
ELEV. 3,082.03

(+)6.5000% (+)6.6200%

PI = 366+00.000
EL = 3,085.28

STA. 366+50.00 -L- END DITCH GRADE (LT)
ELEV. 3,088.59

PI = 373+00.00
EL = 3,125.50

(+)6.6200% (-)1.8000%

3138.00

PI = 373+50.00
EL = 3,124.60

STA. 372+50.00 -L- BEG. DITCH GRADE (LT)
ELEV. 3,128.60

-L-

3,130 3,120 3,110 3,100 3,090 3,080 3,070 3,060 3,050 3,040

361 362 363 364 365 366 367 368 369 370 371 372 373

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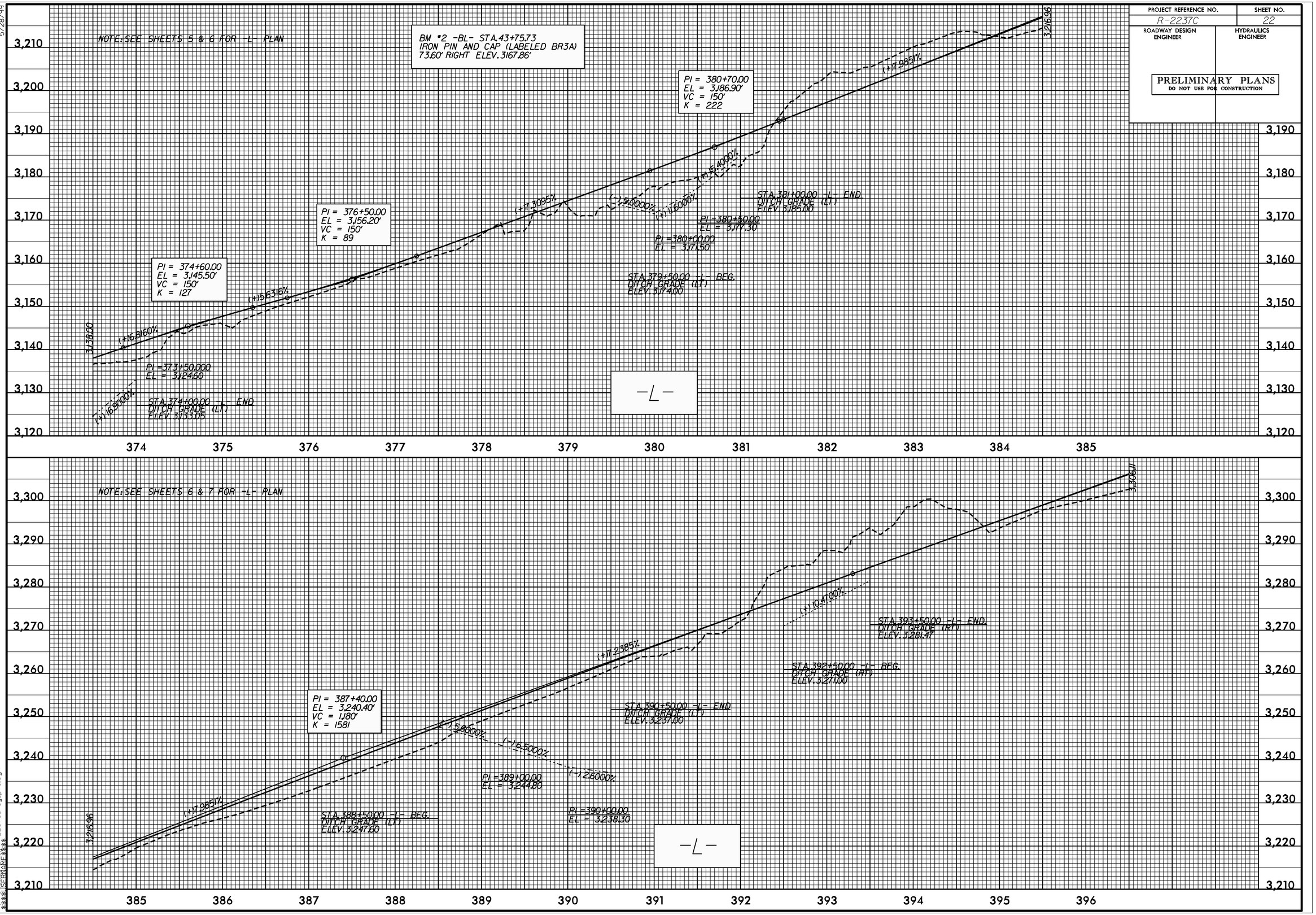
PROJECT REFERENCE NO.	SHEET NO.
R-2237C	22
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



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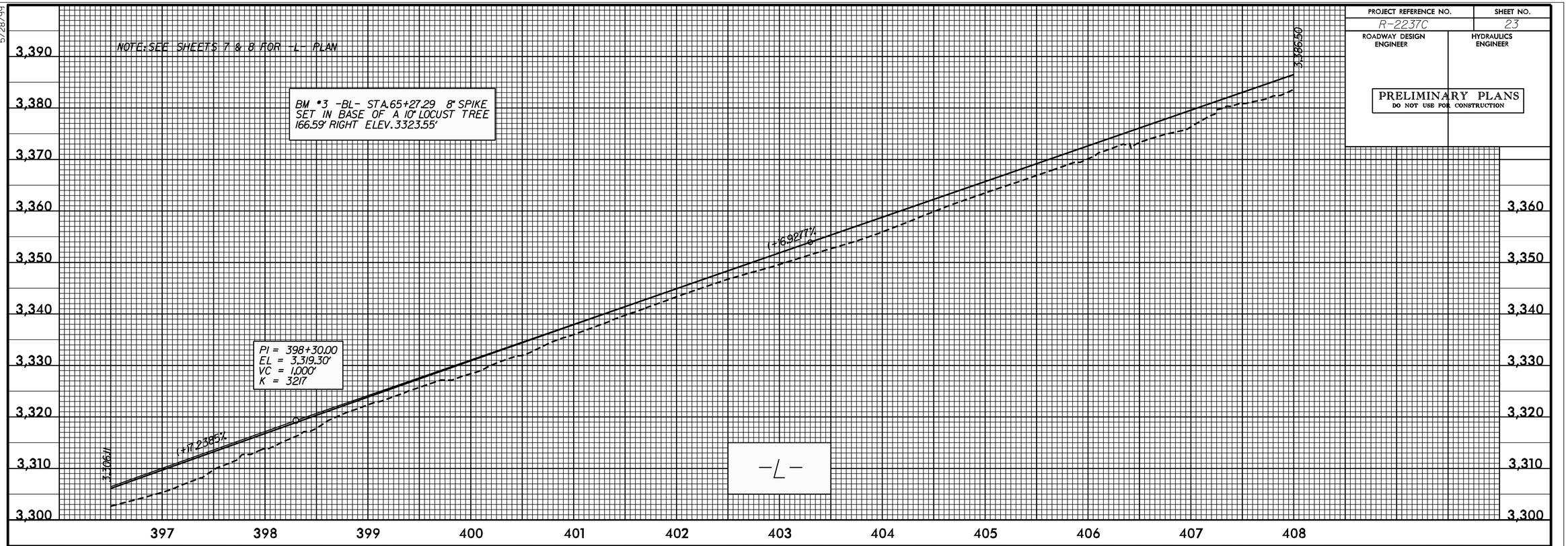
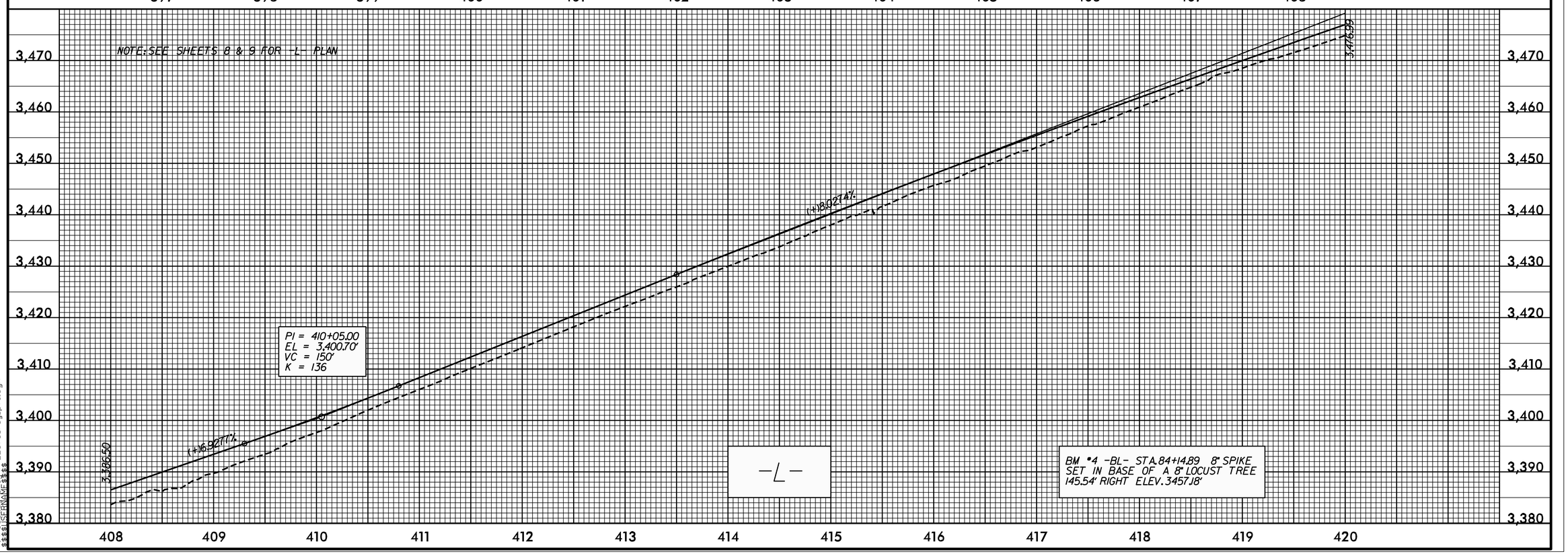
PROJECT REFERENCE NO.	SHEET NO.
R-2237C	23
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION





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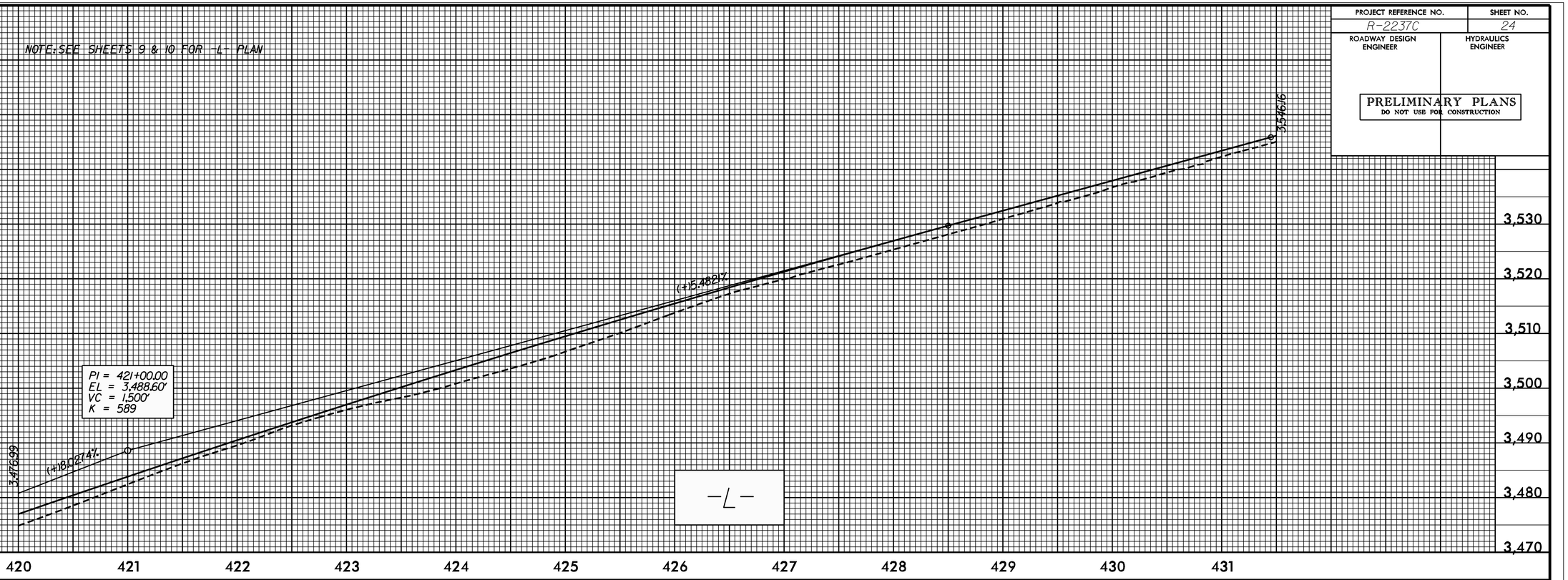
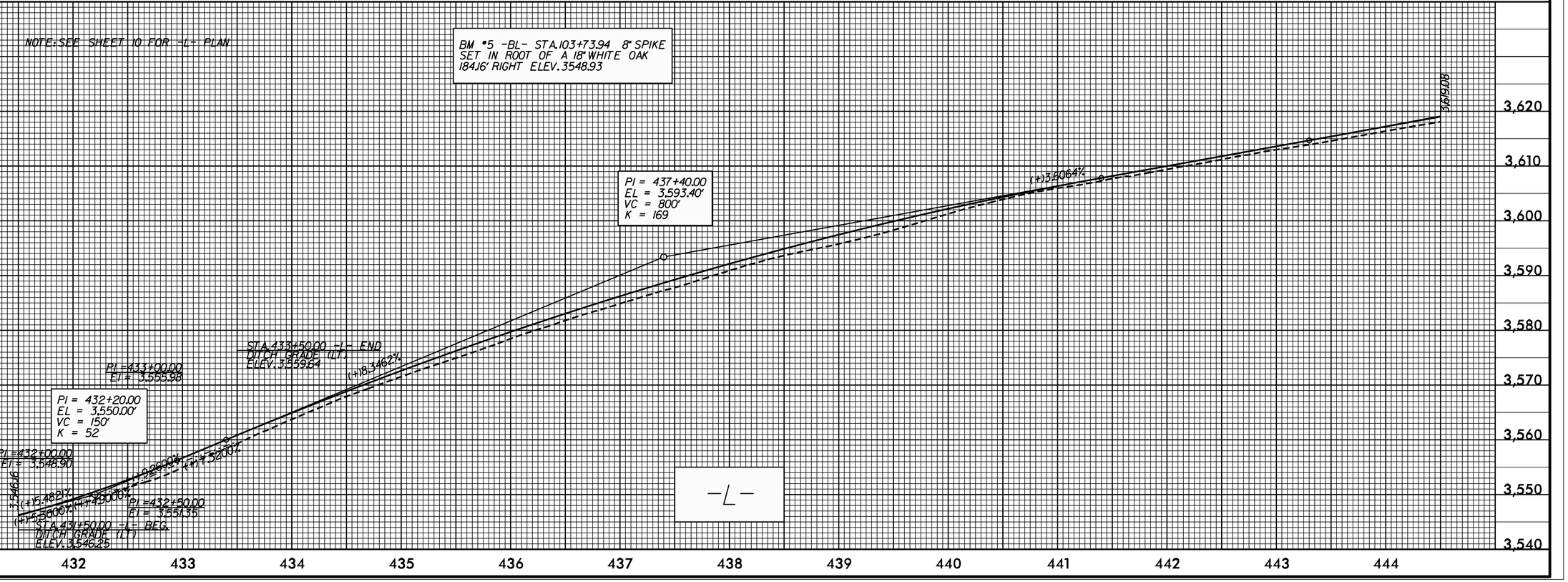
PROJECT REFERENCE NO.	SHEET NO.
R-2237C	24
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION





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PROJECT REFERENCE NO.	SHEET NO.
R-2237C	25
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NOTE: SEE SHEETS 10 & 11 FOR -L- PLAN

NOTE: SEE SHEET 11 FOR -L1- PLAN

(BK) STA. 450+30.00 -L-
EL. 3,642.47=
(AH) STA. 450+30.00 -L1-
EL. 3,642.47

BM #6 -BL- STA. 121+28.22 TOP OF FIRE HYDRANT.
SOUTHEAST OF GREENPARK INN
271.28' RIGHT ELEV. 3669.81

PI = 446+80.00
EL = 3,627.30'
VC = 700'
K = 961

PI = 452+30.00
EL = 3,651.14'
VC = 400'
K = 116

PI = 457+45.00
EL = 3,655.78'
VC = 400'
K = 186

STA. 446+00.00 -L- BEG.
DITCH GRADE (LT)
ELEV. 3624.80

STA. 446+50.00 -L- END
DITCH GRADE (LT)
ELEV. 3626.83

STA. 449+25.00 -L- END
DITCH GRADE (RT)
ELEV. 3622.80

3619.08

(+)3.6064%

(+) 4.0600%

(+)4.3345%

(+) 5.0667%

(+) 2.1667%

(+)1.3333%

(+) 3.0000%

(+)4.3345%

(+)10.9010%

(-)11.2482%

3654.70

PI = 445+50.00
EL = 3,612.50

PI = 448+50.00
EL = 3,619.00

PI = 445+00.00
EL = 3,611.00

STA. 444+70.00 -L- BEG.
DITCH GRADE (RT)
ELEV. 3610.60

-L-

-L1-

NOTE: SEE SHEETS 11 & 12 FOR -L1- PLAN

NOTE: SEE SHEET 12 FOR -L- PLAN

(BK) STA. 469+02.71 -L1-
EL. 3,647.54=
(AH) STA. 469+10.94 -L-
EL. 3,647.54

PI = 461+60.00
EL = 3,650.60'
VC = 150'
K = 162

PI = 468+10.00
EL = 3,648.52'
VC = 170'
K = 232

PI = 470+00.00
EL = 3,646.60'
VC = 150'
K = 143

3654.70

(-)11.2482%

(-)10.3206%

(-)11.0526%

(-)11.0526%

(-)12.1000%

3646.53

-L1-

-L-

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PROJECT REFERENCE NO.	SHEET NO.
R-2237C	26
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NOTE: SEE SHEETS 12 & 13 FOR -L- PLAN

BM #7 -BL- STA. 141+44.9 TOP OF FIRE HYDRANT. AT INT. OF COUNTRY CLUB RD. & FAIRWAY LANE 30.18' RIGHT ELEV. 3626.35

STA. 479+00.00 -L- BEG. DITCH GRADE (RT) ELEV. 3679.00

STA. 481+50.00 -L- END DITCH GRADE (RT) ELEV. 3678.00

STA. 476+50.00 -L- END DITCH GRADE (RT) ELEV. 3665.00

PI = 480+80.00
EL = 3,675.90'
VC = 500'
K = 57

STA. 480+76.00 -L- BEG. DITCH GRADE (RT) ELEV. 3668.00

PI = 475+00.00
EL = 3,657.80'
VC = 450'
K = 224

PI = 472+00.00
EL = 3,642.40'
VC = 150'
K = 21

3645.53

(-)2.1000%

(+)5.1333%

(+)6.1600%

(+)6.2800%

(+)9.5200%

(+)12.0400%

(+)3.1207%

(-)1.9800%

(-)1.1818%

(+)2.3750%

(-)1.6200%

(-)1.5648%

3660.86

PI = 476+00.000
EL = 3,660.24

PI = 479+50.00
EL = 3,669.10

PI = 481+00.00
EL = 3,668.57

PI = 475+50.00
EL = 3,654.22

PI = 475+00.00
EL = 3,651.08

STA. 479+63.00 -L- END DITCH GRADE (RT) ELEV. 3668.50

STA. 474+50.00 -L- BEG. DITCH GRADE (RT) ELEV. 3648.00

-L-

471 472 473 474 475 476 477 478 479 480 481 482 483

3,690 3,680 3,670 3,660 3,650 3,640 3,630 3,620 3,610

NOTE: SEE SHEETS 13 & 14 FOR -L- PLAN

BM #8 -BL- STA. 163+48.76 TOP OF BOLT IN CONC. BASE OF AREA LIGHT (MOST NORTHWEST BOLT) 44.59' RIGHT ELEV. 3622.11

PI = 484+50.00
EL = 3,655.00'
VC = 240'
K = 177

3660.66

(-)5.6486%

PI = 487+60.00
EL = 3,641.70'
VC = 150'
K = 41

(-)1.4290%

(-)0.6522%

PI = 489+90.00
EL = 3,640.20'
VC = 310'
K = 90

STA. 491+00.00 -L- BEG. DITCH GRADE (LT) ELEV. 3636.34

PI = 491+50.00
EL = 3,634.80

PI = 492+00.00
EL = 3,632.42

STA. 492+15 -L- END DITCH GRADE (LT) ELEV. 3632.00

(-)3.0800%

(-)4.7600%

(-)2.8000%

(-)4.0861%

3631.23

-L-

484 485 486 487 488 489 490 491 492 493 494 495 496

3,670 3,660 3,650 3,640 3,630 3,620 3,610 3,600 3,590

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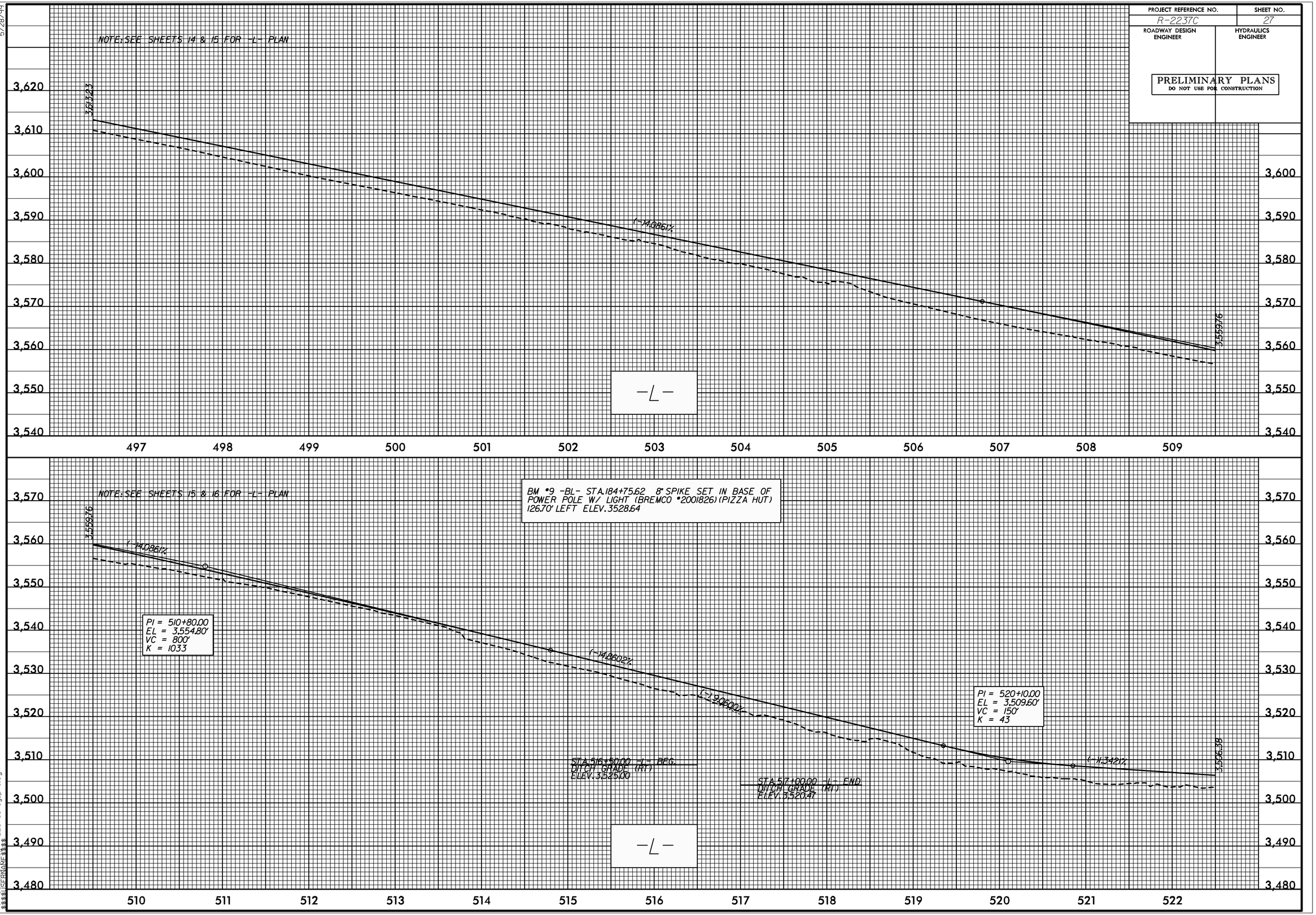
PROJECT REFERENCE NO.	SHEET NO.
R-2237C	27
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



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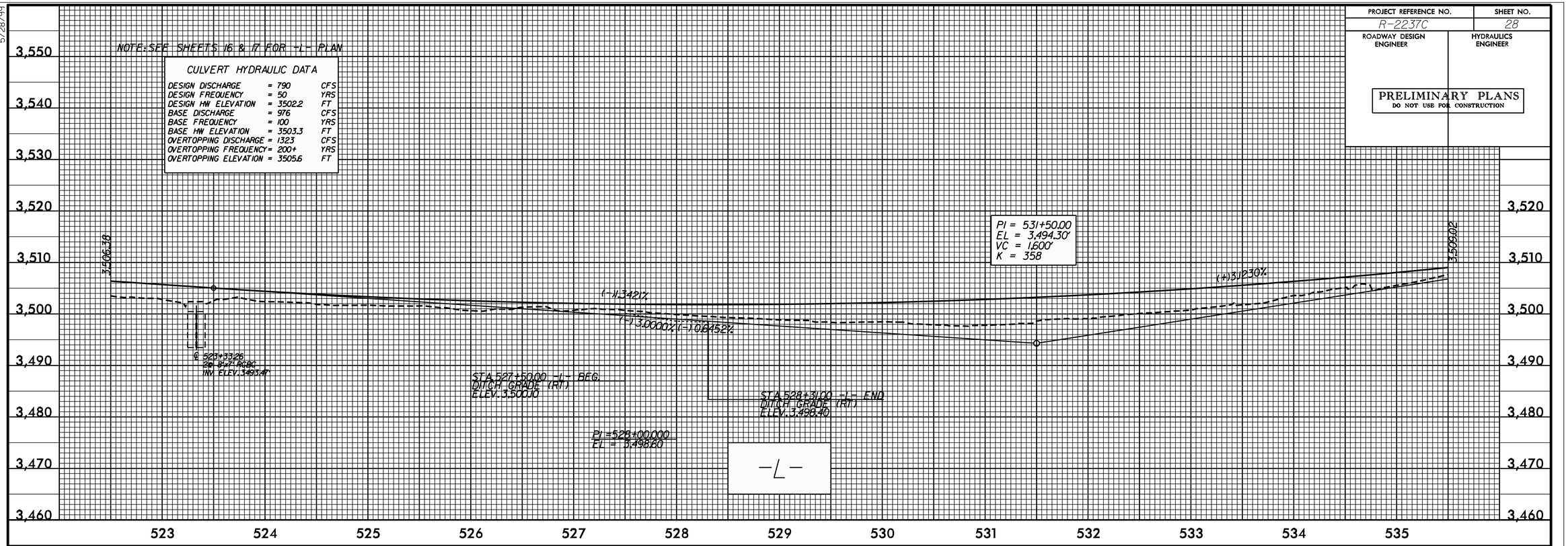
PROJECT REFERENCE NO.	SHEET NO.
R-2237C	28
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



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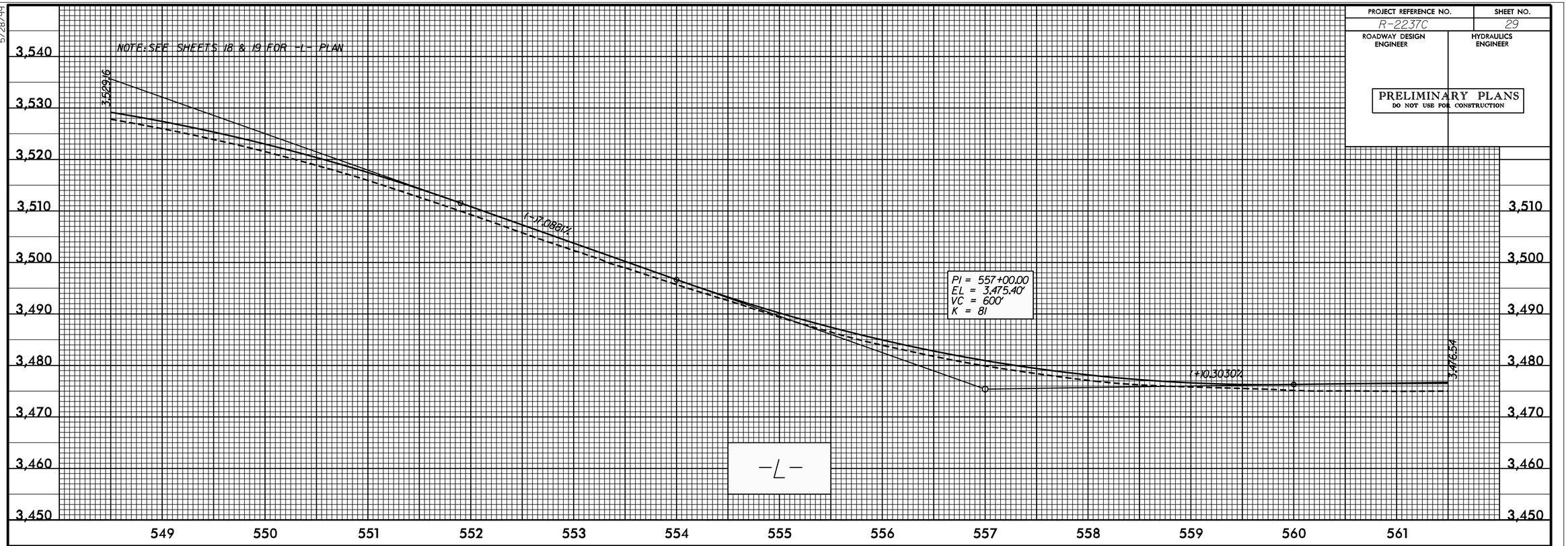
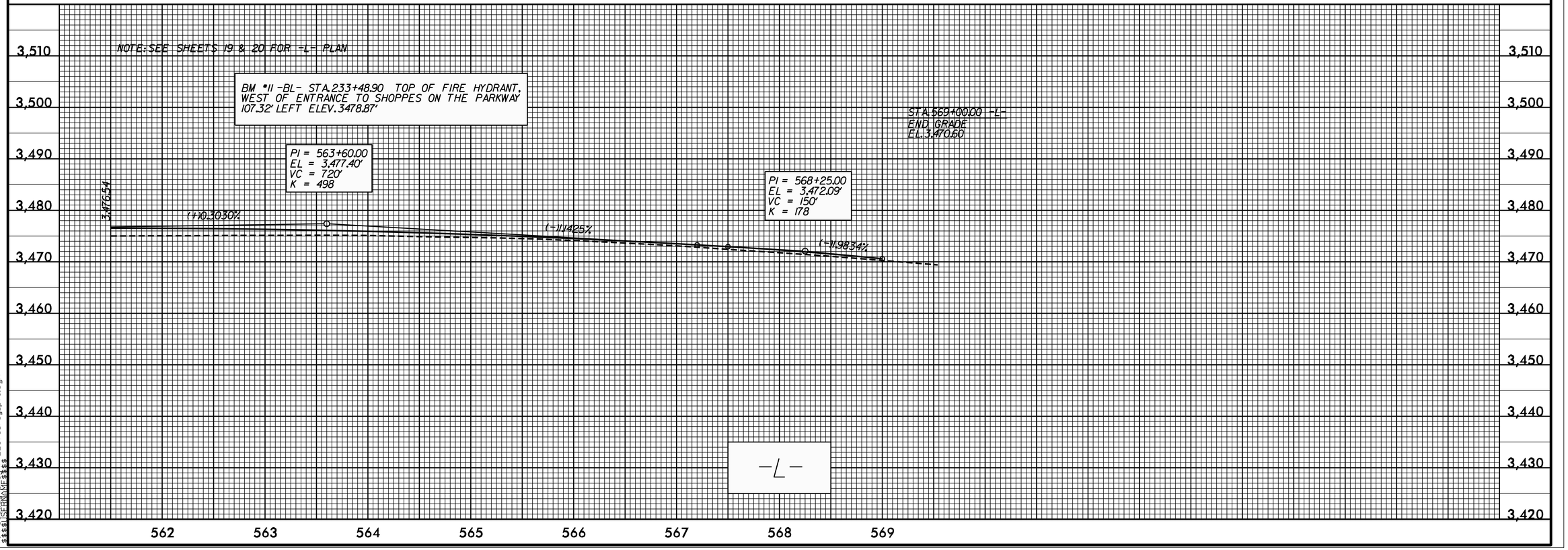
PROJECT REFERENCE NO.	SHEET NO.
R-2237C	29
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION





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PROJECT REFERENCE NO.	SHEET NO.
R-2237C	30
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NOTE: SEE SHEET 6 FOR -Y1- PLAN

STA. 10+26.01 -Y1-
BEGIN GRADE
EL. 3,240.21

PI = 11+00.00
EL = 3,243.16'
VC = 50'
K = 5

PI = 10+49.00
EL = 3,239.79'
VC = 30'
K = 4

STA. 11+94.28 -Y1-
END GRADE
EL. 3,259.13

(-)1.82122%
(+)5.00000%
(+)10.03511%

-Y1-

NOTE: SEE SHEET 9 FOR -Y2- PLAN

STA. 10+24.00 -Y2-
BEGIN GRADE
EL. 3,430.20

PI = 10+56.50
EL = 3,427.93'
VC = 65'
K = 5

PI = 12+55.00
EL = 3,388.26'
VC = 50'
K = 10

STA. 12+80.00 -Y2-
END GRADE
EL. 3,364.54

(-)7.00000%
(-)19.98124%
(-)14.68730%

-Y2-

NOTE: SEE SHEET 11 FOR -Y3- & -Y4- PLAN

STA. 12+00.00 -Y3-
BEGIN GRADE
EL. 3,653.95

PI = 12+75.00
EL = 3,650.95'
VC = 100'
K = 33

PI = 10+73.00
EL = 3,646.58'
VC = 100'
K = 18

STA. 14+90.00 -Y3-
END GRADE
EL. 3,648.82

STA. 10+22.03 -Y4-
BEGIN GRADE
EL. 3,647.93

STA. 11+25.00 -Y4-
END GRADE
EL. 3,648.14

(-)4.00000%
(-)1.09907%
(+)2.64372%
(+)12.99661%

-Y3-

-Y4-

NOTE: SEE SHEET 12 FOR -Y6- PLAN

STA. 10+50.00 -Y6-
BEGIN GRADE
EL. 3,652.02

STA. 12+00.16 -Y6-
END GRADE
EL. 3,644.59

PI = 10+75.00
EL = 3,649.17'
VC = 50'
K = 6

(-)11.38611%
(-)13.66201%

-Y6-

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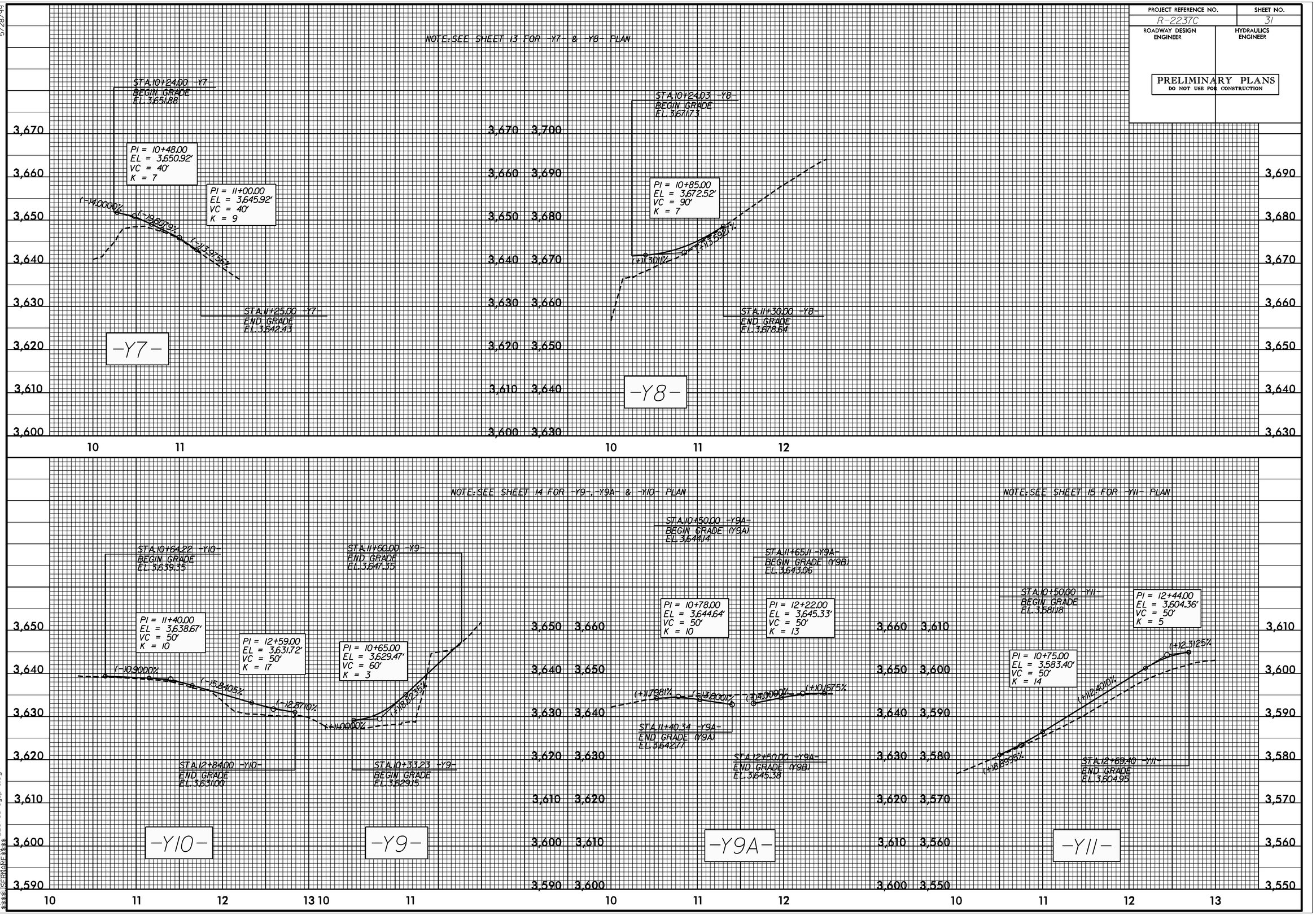
PROJECT REFERENCE NO.	SHEET NO.
R-2237C	31
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



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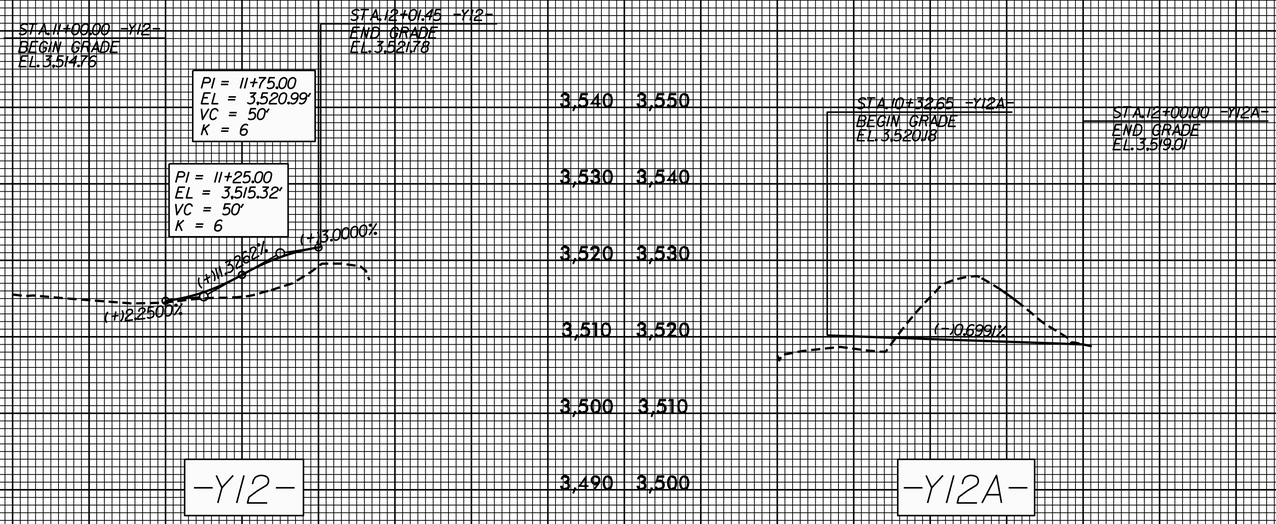
PROJECT REFERENCE NO.	SHEET NO.
R-2237C	32
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

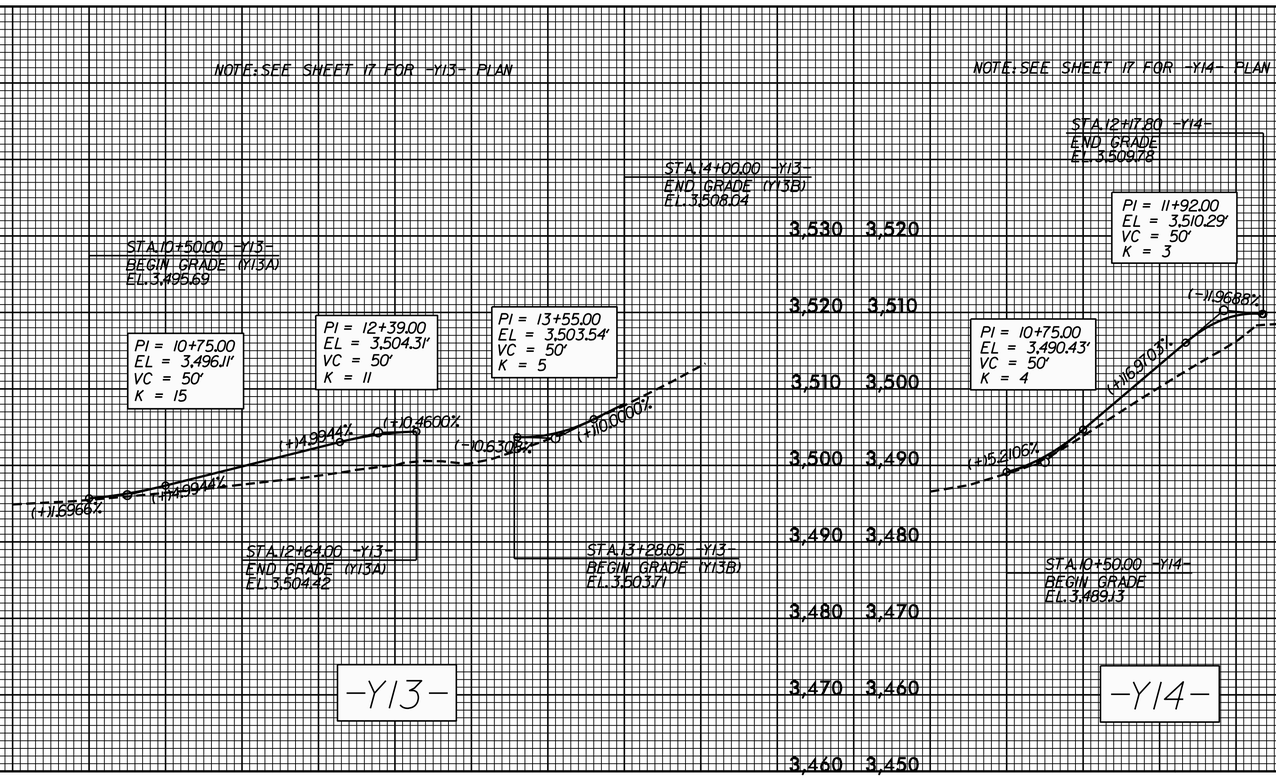
NOTE: SEE SHEET 16 FOR -Y12- & -Y12A- PLAN



NOTE: SEE SHEET 17 FOR -Y13- PLAN

NOTE: SEE SHEET 17 FOR -Y14- PLAN

NOTE: SEE SHEET 18 FOR -Y15- PLAN



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PROJECT REFERENCE NO.	SHEET NO.
R-2237C	33
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NOTE: SEE SHEET 19 FOR -Y17- PLAN

STA. 15+65.63 -Y17-
END GRADE
EL. 3,501.29

PI = 15+15.00
EL = 3,500.28'
VC = 100'
K = 19

PI = 11+55.00
EL = 3,485.59'
VC = 89'
K = 30

PI = 12+65.00
EL = 3,481.82'
VC = 100'
K = 9

(-)0.4857%

(-)3.4273%

(+)7.3840%

(+)11.9949%

STA. 10+50.00 -Y17-
BEGIN GRADE
EL. 3,486.10

-Y17-

NOTE: SEE SHEET 9 FOR -DRIVE1- PLAN

STA. 10+34.00 -DRIVE1-
BEGIN GRADE
EL. 3,491.06

PI = 10+34.00
EL = 3,490.88'
VC = 20'
K = 1

(-)11.8000%

STA. 11+90.00 -DRIVE1-
END GRADE
EL. 3,458.97

(-)20.6457%

PI = 11+80.00
EL = 3,460.78'
VC = 20'
K = 8

(-)7.1837%

-DRIVE1-

NOTE: SEE SHEET 9 FOR -DRIVE2- PLAN

STA. 10+46.46 -DRIVE2-
BEGIN GRADE
EL. 3,525.39

PI = 10+65.00
EL = 3,524.83'
VC = 30'
K = 3

PI = 11+55.00
EL = 3,512.64'
VC = 30'
K = 6

(-)3.0000%

(-)7.8500%

STA. 11+70.00 -DRIVE2-
END GRADE
EL. 3,511.36

-DRIVE2-

NOTE: SEE SHEET 15 FOR -DRIVE3- PLAN

STA. 10+46.46 -DRIVE3-
END GRADE
EL. 3,586.54

PI = 11+00.00
EL = 3,580.98'
VC = 30'
K = 8

PI = 11+35.00
EL = 3,584.55'
VC = 40'
K = 13

(+)6.3000%

(+)10.1902%

(+)17.0000%

STA. 10+70.00 -DRIVE3-
BEGIN GRADE
EL. 3,579.09

-DRIVE3-

NOTE: SEE SHEET 17 FOR -DRIVE4- PLAN

STA. 11+10.51 -DRIVE4-
END GRADE
EL. 3,504.02

PI = 10+65.00
EL = 3,499.52'
VC = 30'
K = 9

PI = 10+95.00
EL = 3,503.09'
VC = 30'
K = 5

(+)5.5000%

(+)11.9145%

(+)18.0000%

STA. 10+50.00 -DRIVE4-
BEGIN GRADE
EL. 3,498.24

-DRIVE4-

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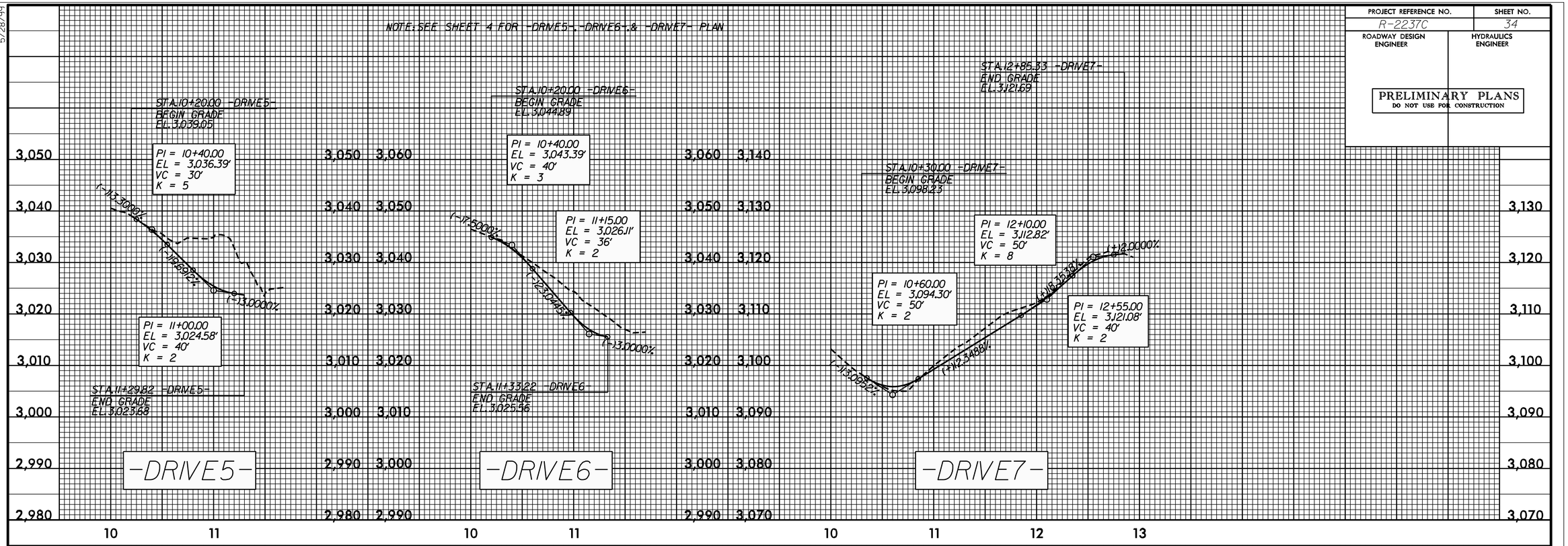
PROJECT REFERENCE NO.	SHEET NO.
R-2237C	34
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

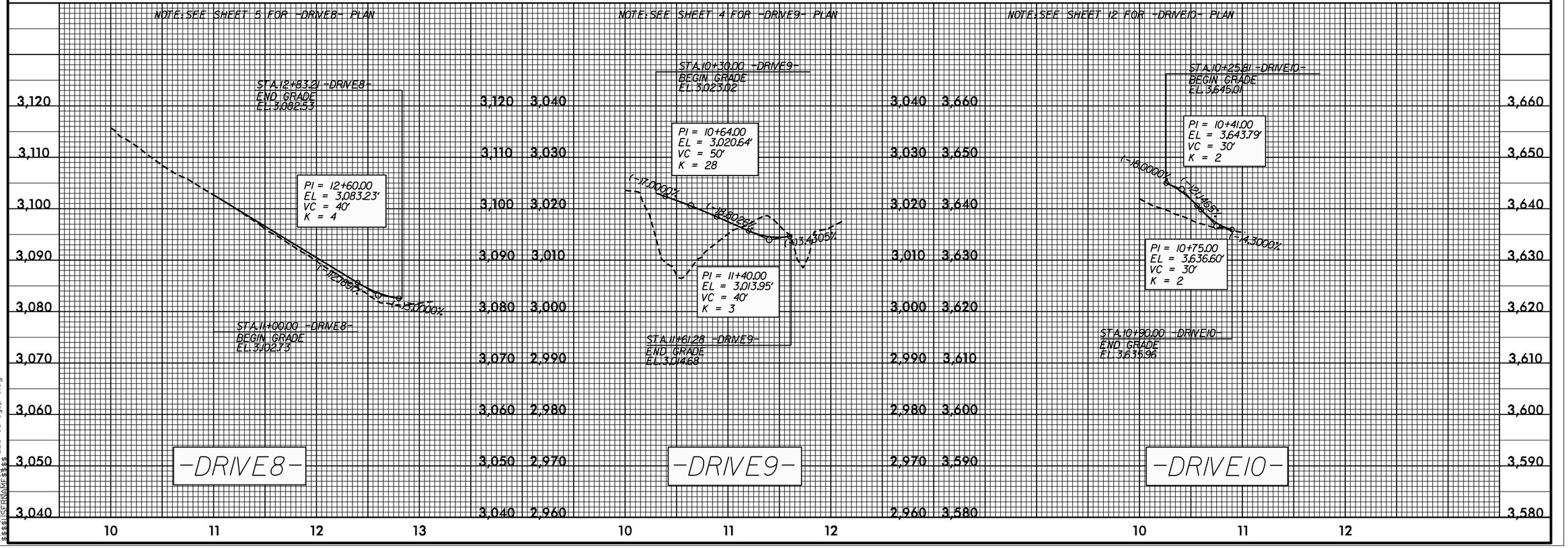
NOTE: SEE SHEET 4 FOR -DRIVE5-, -DRIVE6-, & -DRIVE7- PLAN



NOTE: SEE SHEET 5 FOR -DRIVE8- PLAN

NOTE: SEE SHEET 4 FOR -DRIVE9- PLAN

NOTE: SEE SHEET 12 FOR -DRIVE10- PLAN



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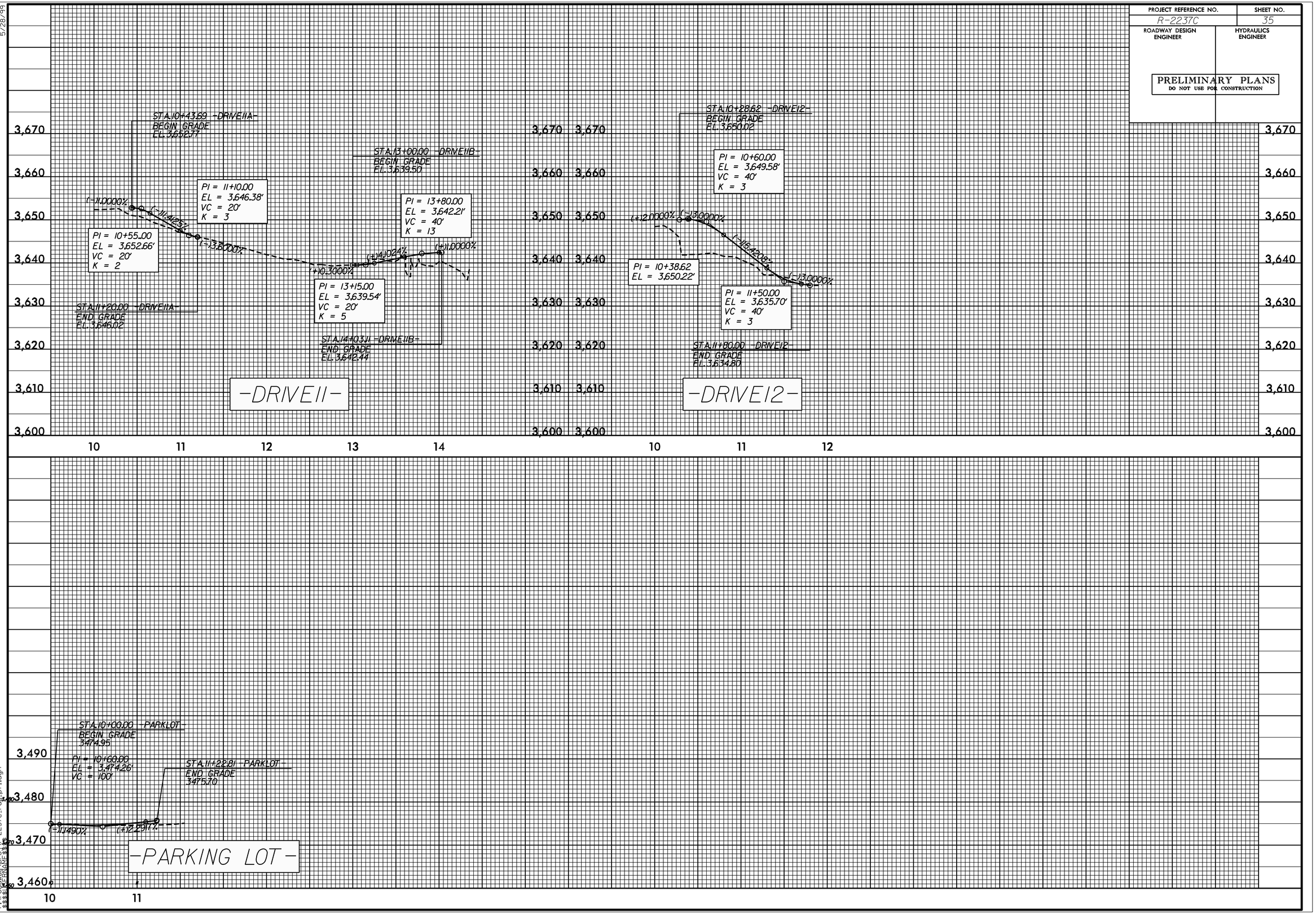
USER: mwilson

PROJECT REFERENCE NO.	SHEET NO.
R-2237C	35
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION