

Dr. 8 - 13K.163

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

_____ PLAN _____ Survey

NORTH ST. PAUL RD. (7th ST.)

From Pennsylvania St. Co. Charles St.

Road Acc't. No. 13 _____

Date Filed _____

File _____

PLAN SURVEY

7th St.

No. St. Paul.

Sta. 95+ to Sta. 121+

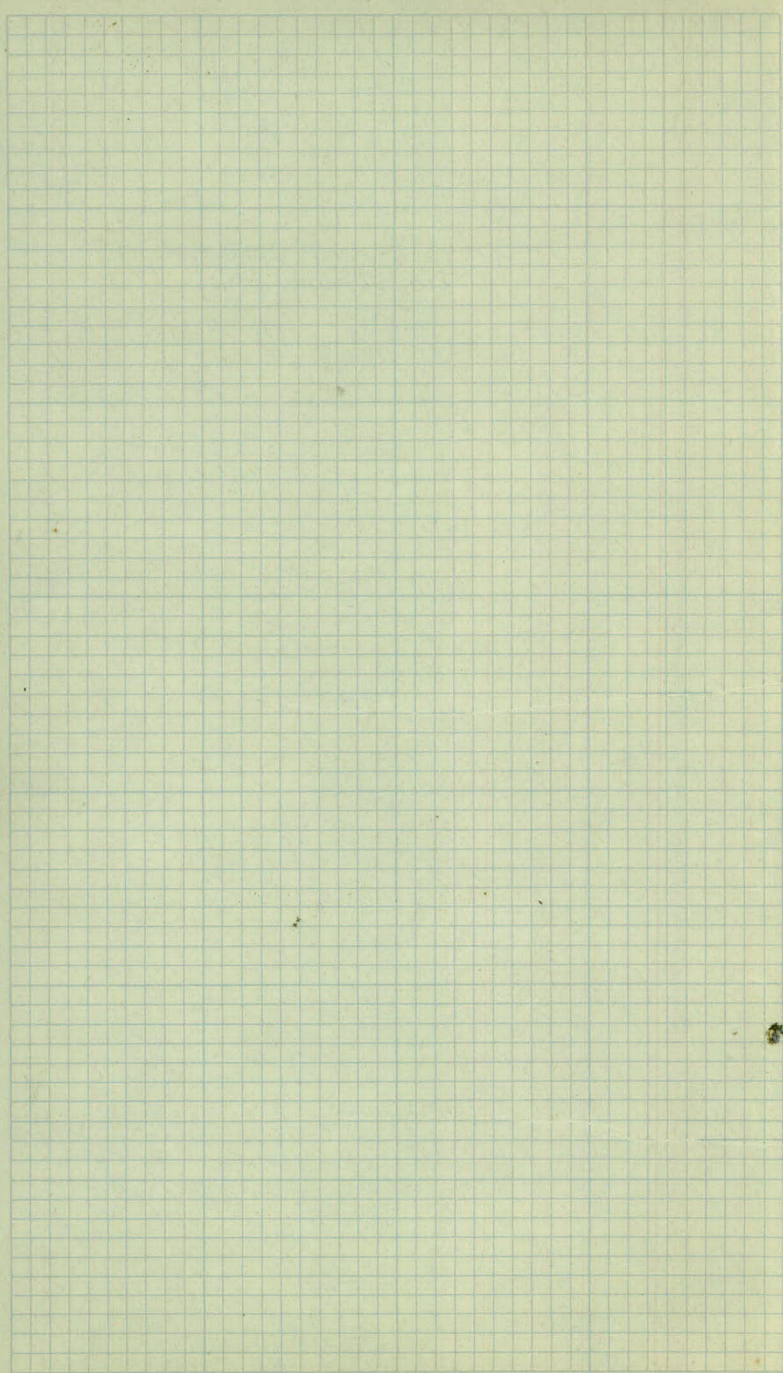
Pennsylvania To Charles

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Alignment

349

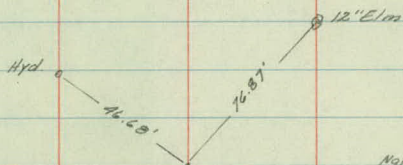
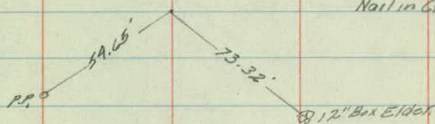
Point

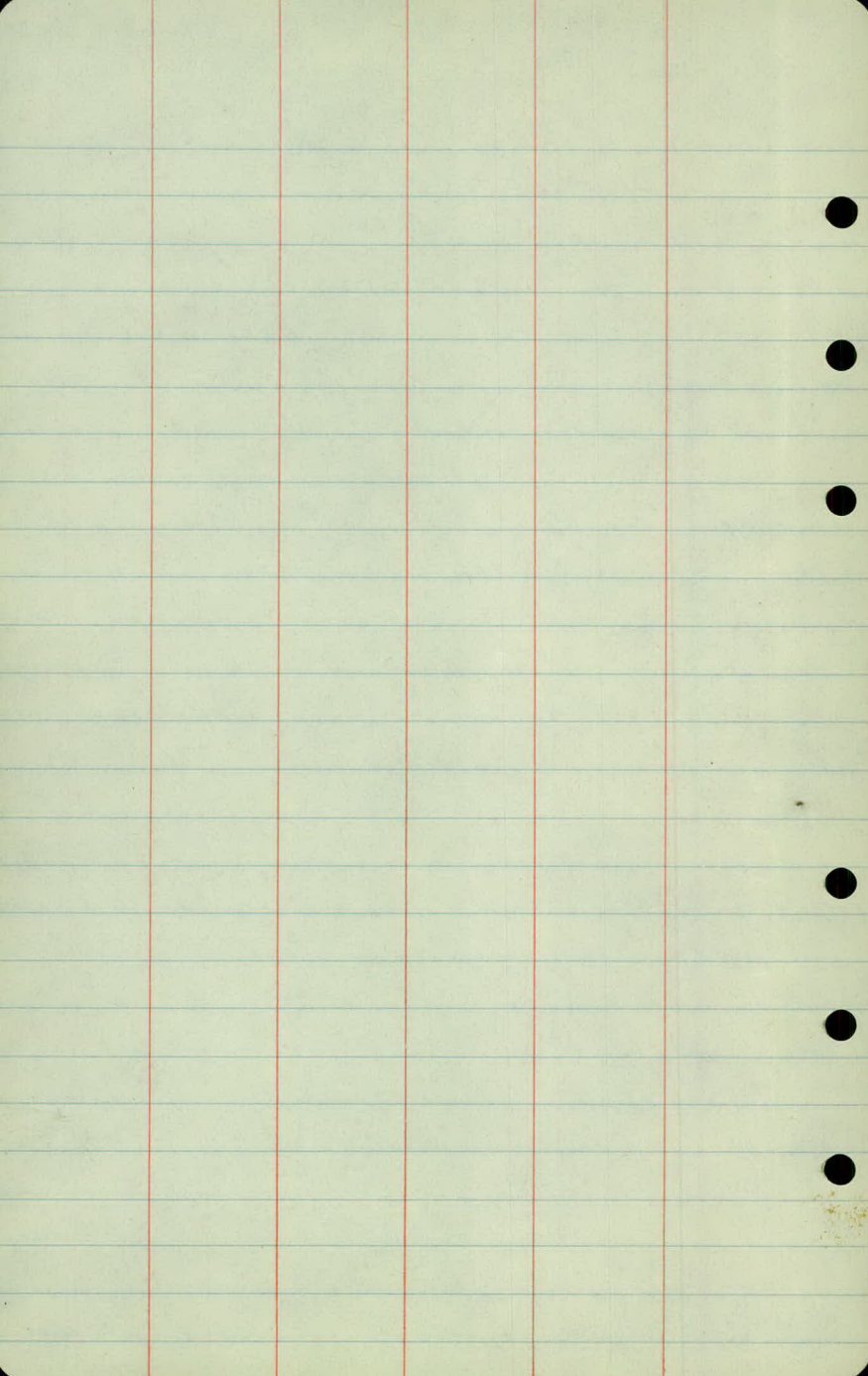
Alt

Lat

122 400 P.O.T.

95 489.88





Topography

Curb.
192-Lamp Post.

Pav.

Curb.

152-Cor. Ho.-51.4'.

125-Hyd.-35'.

100 31.8

12 12

120-Lamp Post.
31.9

145-Lamp Post.

144-Lamp Post.

150-Cor. Build.-51.7'.

99 31.9

12 12

31.9

128-Lamp Post.

98 32

12 12

32

123-Cor. Ho.-67'.

97 32

12 12

31.9

194-Lamp Post-35'.

157-12" Etra-38' N. W. Cor. Ho-75'.

140-10' Wide DRIVE.

5' Radius.

128-Road Box E. of Cor. Ho-52'.

119-Lamp Post-35'.

31.9

131-Decorative Light Post-35'.

126-Catch Basin.

120-Hyd.-35' 117-Curb-32'.

96 108-End Curb Pav.-49.2' + 0 7.79-12' Radius Point.

167.5 Pav.-49.2'.

161-Encl. d'X? Box Curb-50'.

150-Lamp Post-35'.

167-Catch Basin.

157-End Radius.

199-End 4' X 8' Box Curb-62'.

127.8-End Curb-51'.

95

Sidewalk

Sidewalk⁴

2-5-F.
58'

49-42

41-49

2-5-F.
60'

49-41

41-49

Curbed Line Stone

Block Top

Curbed Line Stone

6" Curb

6" Curb

50-42

42-50

1 1/2-5-F.
32'

+20+ +20+
+20+

50-42

6" Retain Wall

42-49

sidewalk
34'
1-5-F.
3' Curb

Catch Basins set in curb
11' Radius

42-50

25' Radius

Curb	+78-Hyd-35'	POV	+72-Cor Hedge.	Curb
			+82-8" Elm.	
	+66-R 24'Drive		+50-Cor Ho.-51'	
			+98-8" Elm.	
			+25-Lamp Post.	
107	31.8'	118-12.2'	+67-8" Elm.	32.1'
			+74-Cor Ho.-50.5'	
			+67-8" Elm.	
	+90-Lamp Post.		+27-8" Elm.	
106	31.6'	117-12.2'	+87-4" Elm.	
			+62-Lamp Post.-35'	
			+53-4" Elm.-37'	
	+94-Beg. Curb.		+22-Cor. Build.-51'	
	+69-End Curb.		+15-Retain Wall.	
105	31.9'	117-12.3'		32.2'
	+75-Lamp Post.			
	+62-Catch Basin.			
	+52.7-End Radius.			
	+94.6-Beg. Curb.-49'			
		+43.77-Radius Point.		
			+17-Lamp Post.	
			+10-Catch Basin.	
104	+66-End Curb.-49'	12'-13'	+90-End Radius.	
	+80-Beg. Radius.-25' Rad.			
	+75-Lamp Post.			
	+73-Hyd-35'			
			+65-Beg. Curb.-30.5', 11' 6"	
			+49-Monobele-01'	
		+28.77-12' Radius.	+37-End Curb.-50.5'	
			+17-Lamp Post. & Beg. Curb Radius.	
103	31.7'	11.8-12	+95-Beg. Curb.	32
	+63-R Drive			
	+95-Lamp Post.		+98-End Curb.	
			+67-Cor. Build.-50.7'	
102	31.8	11.8-12.1	Beg. Curb.	31.9
			+95-Beg. Side Walk.	
			+75-End Curb.	
			+69-Lamp Post.	
101	31.8	11.8-11.8		32

Side walk

Side walk

477'-416'

422-479'

477'-413'

423-413'

48'-417

- Perist Retain wall

Retain wall -
423-463'

49-41

-49

50-42

427-50.5

50-42

41-49

106 - Lamp Post - 35' - 32'
199 - Cor. Buil - 50.3'

32.1'

1st. + 85' Cor. Build - 50.3'

+ 6.2' Lorry Rest.

+ 60' - Cor. Basin

+ 49' - End of dikes

+ 36' 10" Build - 50.5'

+ 13' - 40' Ligh. + Pole.

123-Beg. Card - 30.5' • 518 m - 14
120-Catch Basin - 53.1' •

#643-End Curb-30.5'-
 #95-Lamp Post-38'-
 #43-Curb-30' Beg Roadlines
 #11-Cor Buil-63'-
 Cor Fill Sta-67'-
 #92-Beg. Curb Roadlines

12' 12.2' Cor. Fill Sta. - 19' - 32'

+107-Mantle - 39"
 +129-Cor. Build - 506
 +129-Lamp Post
 +142-8' Drive

489-Cor. Hedge,
+ 75-10" Elms

118 12.2 32.2
296-12" E/101
299-Cor. Bulld-84'

154-12" Elm
152-Lamp Post
1354-24' Drive
118-Lamp Post
114-12" Elm

118 122 322

Side Walk

Side Walk

49.6'

Post
of. H.C.

Margaret

44.5-41.5

50-41.5'

42.9-41.8

50-42

Cons.
Park
Spas.

Post
Office

44'
1 1/2 S-F.

42.3-50.9'

49.7

45.5-40.5 Walk

42.7-50.5'

2-S-F

Show House

42.1-50

Tower
Hall

42.3-50.2

Curb

Pay.

Curb

+20-End Curb-50' -
 +12-Dir Side Walk-50' -

121

Reg. Radius

+20-Hyd

+84-Lamp Post

+10-85 Curb

+6.56-12' Radius Point

+33-Cor Build.-50' -

+99-End Curb-50' -

+90-Reg Rad. + End Side Walk -

+25-Lamp Post

+27-Cor Build-50 -

120 32.1

12'

11.9'

31.8'

+35-Lamp Post

119 32.1

12.2'

11.9'

31.9'

+80-Lamp Post

+97-8.2 Gas Pumps-35' -

118

+10-Cor Build-99.5' -

+0.5-6.10' End

12'

11.9'

32'

+85-Lamp Post

+13-Cor Build-50' -

+12-Hyd

+80-Curb-37' -

117

12'

11.5'

31.7'

+22-Lamp Post

+64-End Curb

+57-Cor Build-51.2' -

+31-Manhole-55' -

+37-Lamp Post

+11-Cor Build-50' -

116

32'

12.2'

11.9'

31.9'

+41-End Curb-57' + Cor Build-50' -

+20-9.9 Drive

+88-Cor Build-50' -

+59-Cor Build-50' -

+31-Cor Build-49.5' -

+12-Cor Build-99.5' -

115

32'

12'

11.9'

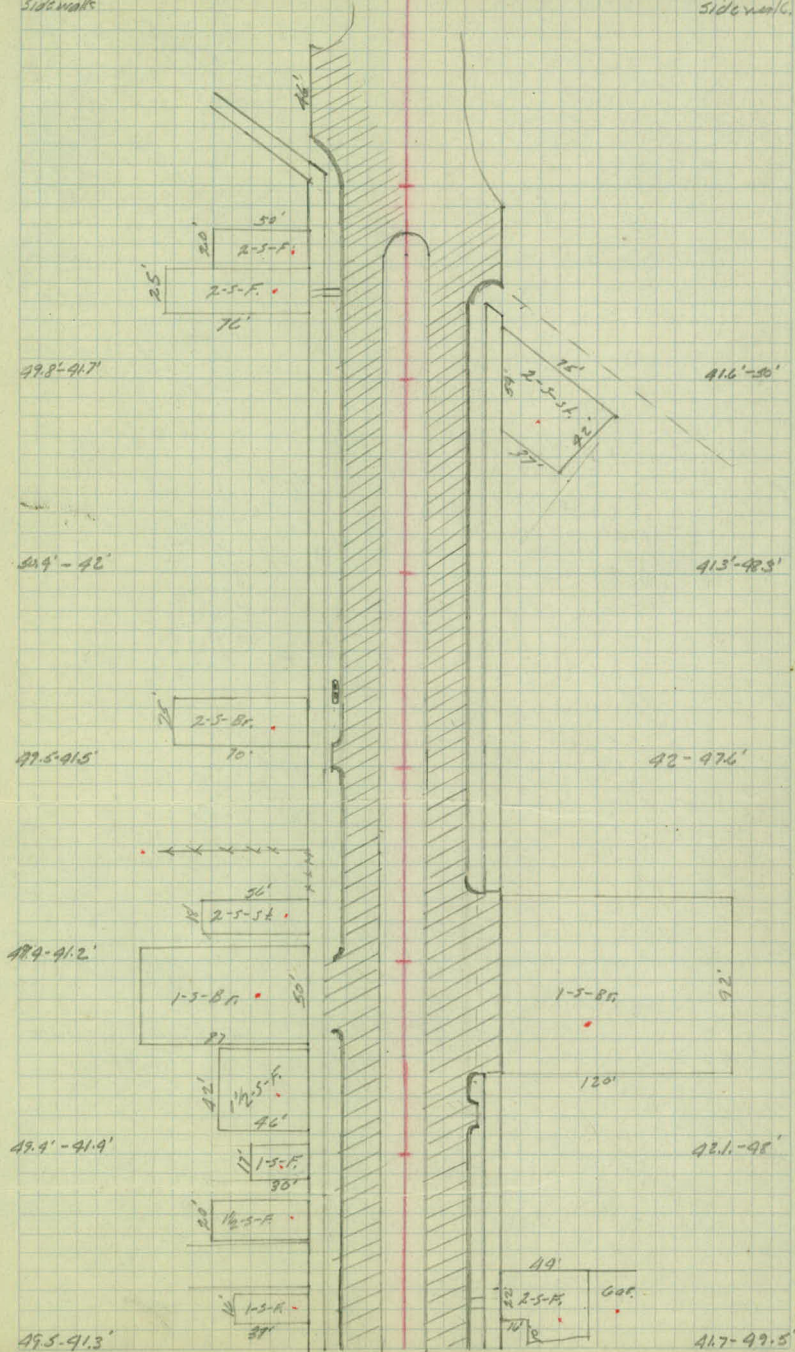
+15-Cor Build-50.3' -

31.7'

+60-Lamp Post

Side walk

7
Side walk



X sections

Sta.	+	-	Elev.
B.M.	4.42	966.13	961.71

95	+50		60.96
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	+75.79		60.79
--	--------	--	-------

96	+0.79		60.87
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	+25		60.84
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	+50		60.97
--	-----	--	-------

	+75		61.10
--	-----	--	-------

97			61.17
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	+25		61.28
--	-----	--	-------

	+50		61.30
--	-----	--	-------

	+75		61.37
--	-----	--	-------

98			61.40
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11/29/58
K.17.
L.H.H.
L.G.
M.D.G.

9

Lt.

X

EL

Top. Hyd. Lt Sta. 96420

60.68
60.95
630 606 593 545 517 518 545 5.31 51 49
49.5 364 30.3 145 16 32.4 32.4 41 49.5

60.40
60.91
635 618 573 534 532 578 5.34 50 50
49.5 32 16 15.7 31.8 31.8 41 49.5

60.40
60.86
626 625 627 635 595 573 526 527 544 576 534 51 50
49.3 41.8 36.6 36.6 22 11.8 11.9 22 31.9 31.9 41.6 49.5

60.49
60.80
610 61 625 659 605 585 529 533 544 567 53 51 40
49.5 41 32 32 22 12 12.0 22 31.9 31.9 41.7 49.5

60.57
60.89
59 57 615 687 601 536 516 524 538 664 521 52 43
49.5 42 32 32 22 12.2 12 22 31.9 31.9 41 49

60.70
61.0
58 57 599 643 587 540 503 513 530 56 518 52 51
49 42 32 32 22 12.2 12 22 31.9 31.9 41 49

60.82
61.09
55 56 588 630 576 531 496 504 520 550 507 47 46
50 42 32 32 22 12.1 12 22 31.9 31.9 42 49

60.84
61.14
54 55 577 622 569 529 485 499 514 544 496 47 44
50 42 32 32 22 12.1 12 22 31.9 31.9 42 49

60.94
61.22
54 54 574 619 562 519 483 491 51 542 495 46 45
49.5 42 32 32 22 12 12 22 31.9 31.9 41.7 49.5

60.99
61.27
54 54 567 613 555 514 476 486 506 542 495 46 45
49.5 42 32 32 22 12 12 22 31.9 31.9 42 49.5

61.07
61.30
53 52 562 604 549 504 473 483 501 537 49 46 45
50 42 32 32 22 12 12.1 22 32 32 42 50

Sta.	+	✓ A	-	Elev.
		966.13		
98	+25			61.45
	+50			61.51
	+75			61.57
99				61.63
	+25			61.71
	+50			61.77
	+75			61.85
T.P.	3.35	✓ 966.89	2.59	✓ 963.59
100				61.93
	+25			61.98
	+50			61.96
	+75			62.03

Lt

Rt

Rt

61.11 61.35
 $\frac{51}{50} \frac{51}{41} \frac{555}{52} \frac{597}{32} \frac{543}{22} \frac{502}{12} \frac{468}{12} \frac{478}{22} \frac{498}{22} \frac{530}{32} \frac{495}{32} \frac{45}{41} \frac{45}{49}$

61.16 61.39
 $\frac{51}{50} \frac{50}{42} \frac{547}{318} \frac{590}{318} \frac{536}{22} \frac{497}{12} \frac{462}{12} \frac{474}{22} \frac{494}{22} \frac{529}{32} \frac{488}{32} \frac{45}{41} \frac{44}{50}$

61.20 61.42
 $\frac{49}{50} \frac{50}{42} \frac{536}{318} \frac{582}{318} \frac{531}{22} \frac{493}{12} \frac{456}{12} \frac{471}{22} \frac{489}{22} \frac{521}{32} \frac{48}{32} \frac{45}{41} \frac{45}{50}$

61.25 61.50
 $\frac{50}{49} \frac{49}{41} \frac{528}{319} \frac{574}{319} \frac{522}{22} \frac{488}{12} \frac{45463}{12} \frac{482}{22} \frac{517}{319} \frac{472}{319} \frac{45}{41} \frac{45}{49}$

61.30 61.56
 $\frac{47}{49} \frac{48}{41} \frac{516}{319} \frac{544}{319} \frac{515}{22} \frac{483}{12} \frac{492}{12} \frac{457}{22} \frac{48}{22} \frac{511}{319} \frac{471}{319} \frac{45}{41} \frac{44}{49}$

61.44 61.62
 $\frac{47}{49} \frac{47}{42} \frac{507}{319} \frac{544}{319} \frac{501}{22} \frac{469}{118} \frac{436}{12} \frac{451}{22} \frac{47}{22} \frac{507}{318} \frac{461}{318} \frac{44}{41} \frac{45}{50}$

61.56 61.68
 $\frac{47}{49} \frac{47}{42} \frac{50}{319} \frac{546}{319} \frac{491}{22} \frac{457}{118} \frac{428}{12} \frac{445}{22} \frac{466}{22} \frac{50}{318} \frac{489}{318} \frac{43}{41} \frac{43}{50}$

Top Hy d. Lt 5/4 100 + 61.62 61.74
 $\frac{53}{49} \frac{54}{42} \frac{579}{318} \frac{621}{318} \frac{465}{22} \frac{527}{12} \frac{496}{12} \frac{515}{22} \frac{536}{22} \frac{573}{319} \frac{531}{319} \frac{50}{41} \frac{50}{49}$

61.66 61.78
 $\frac{52}{49} \frac{54}{42} \frac{563}{318} \frac{609}{318} \frac{557}{22} \frac{523}{12} \frac{491}{12} \frac{511}{22} \frac{538}{22} \frac{566}{319} \frac{526}{319} \frac{49}{41} \frac{49}{49}$

61.72 61.79
 $\frac{51}{49} \frac{52}{42} \frac{536}{318} \frac{601}{318} \frac{552}{22} \frac{517}{119} \frac{493}{12} \frac{510}{22} \frac{529}{22} \frac{563}{318} \frac{521}{318} \frac{49}{41} \frac{48}{49}$

61.83 61.87
 $\frac{50}{49} \frac{52}{42} \frac{548}{318} \frac{587}{318} \frac{542}{22} \frac{506}{119} \frac{486}{12} \frac{502}{22} \frac{524}{22} \frac{561}{318} \frac{517}{318} \frac{49}{41} \frac{48}{49}$

Sta.	+	X	-	Elev.
		✓ 946.89		
101				62.09
+25				62.09
+50				62.18
+75				62.20
102				62.24
+25				62.28
+50				62.29
+75				62.32
103				62.35
+28.77				62.44
+40.77				62.49

26

2

26

61.92 61.94
 $\frac{51}{50} \quad \frac{51}{72} \quad \frac{539}{31.8} \quad \frac{541}{31.8} \quad \frac{52}{22} \quad \frac{497}{11.8} \quad \frac{48}{11.8} \quad \frac{495}{22} \quad \frac{518}{32} \quad \frac{555}{32} \quad \frac{510}{31} \quad \frac{48}{41} \quad \frac{45}{49}$

61.98 62.02
 $\frac{49}{50} \quad \frac{50}{72} \quad \frac{534}{31.8} \quad \frac{526}{31.8} \quad \frac{524}{22} \quad \frac{491}{11.8} \quad \frac{48}{11.8} \quad \frac{487}{22} \quad \frac{515}{32} \quad \frac{555}{32} \quad \frac{51}{31} \quad \frac{47}{41} \quad \frac{45}{49}$

62.05 62.09
 $\frac{47}{49} \quad \frac{49}{71} \quad \frac{523}{31.8} \quad \frac{522}{31.8} \quad \frac{524}{22} \quad \frac{484}{12} \quad \frac{471}{12} \quad \frac{48}{22} \quad \frac{514}{31.9} \quad \frac{556}{31.9} \quad \frac{51}{41} \quad \frac{46}{42} \quad \frac{46}{50}$

62.07 62.08
 $\frac{48}{49} \quad \frac{49}{71} \quad \frac{522}{31.8} \quad \frac{569}{31.8} \quad \frac{518}{22} \quad \frac{482}{12} \quad \frac{469}{12} \quad \frac{481}{22} \quad \frac{508}{31.9} \quad \frac{551}{31.9} \quad \frac{507}{41} \quad \frac{46}{42} \quad \frac{4.5}{50}$

62.09 62.10
 $\frac{46}{50} \quad \frac{47}{72} \quad \frac{517}{31.8} \quad \frac{565}{31.8} \quad \frac{514}{22} \quad \frac{48}{11.8} \quad \frac{465}{12.1} \quad \frac{479}{22} \quad \frac{511}{31.9} \quad \frac{555}{31.9} \quad \frac{507}{41} \quad \frac{46}{42.7} \quad \frac{454}{50.5}$

62.15 62.12
 $\frac{45}{50} \quad \frac{47}{72} \quad \frac{508}{31.8} \quad \frac{550}{31.8} \quad \frac{508}{22} \quad \frac{474}{11.8} \quad \frac{461}{12.1} \quad \frac{477}{22} \quad \frac{505}{31.9} \quad \frac{547}{31.9} \quad \frac{501}{41} \quad \frac{458}{42.7} \quad \frac{458}{50}$

62.17 62.20
 $\frac{43}{49} \quad \frac{46}{71} \quad \frac{499}{31.8} \quad \frac{544}{31.8} \quad \frac{503}{22} \quad \frac{472}{11.9} \quad \frac{46}{12.1} \quad \frac{469}{22} \quad \frac{497}{32} \quad \frac{537}{42.8} \quad \frac{466}{42.8} \quad \frac{456}{50.7}$

62.27 62.20
 $\frac{44}{49} \quad \frac{45}{71} \quad \frac{480}{31.8} \quad \frac{531}{31.8} \quad \frac{495}{22} \quad \frac{462}{11.9} \quad \frac{457}{12.1} \quad \frac{469}{22} \quad \frac{498}{32} \quad \frac{543}{32} \quad \frac{46}{50}$

62.29 62.23
 $\frac{46}{49} \quad \frac{46}{71} \quad \frac{487}{31.7} \quad \frac{533}{31.7} \quad \frac{491}{22} \quad \frac{460}{11.8} \quad \frac{454}{12} \quad \frac{466}{22} \quad \frac{496}{32} \quad \frac{539}{32} \quad \frac{494}{43.4} \quad \frac{470}{49} \quad \frac{465}{49}$

62.36 62.29
 $\frac{44}{48} \quad \frac{46}{70} \quad \frac{482}{31.7} \quad \frac{525}{31.7} \quad \frac{487}{22} \quad \frac{453}{11.8} \quad \frac{445}{12.2} \quad \frac{460}{22} \quad \frac{474}{32} \quad \frac{488}{32} \quad \frac{482}{50}$

62.38 62.38
 $\frac{44}{49} \quad \frac{45}{71} \quad \frac{482}{31.8} \quad \frac{523}{31.8} \quad \frac{482}{22} \quad \frac{451}{12} \quad \frac{44}{12.2} \quad \frac{451}{22} \quad \frac{462}{22} \quad \frac{468}{50.4}$

Sta	+	Δ	-	Elev
		966.89		
103	+10			62.61
B.M.	4.09	969.56	142	965.47
104				62.72
	+11.73			62.85
	+43.73			63.20
	+75			63.39
105				63.73
	+25			63.98
	150			64.14
	+75			64.32
106				64.53
	+25			64.83

Lt.

R

Rt.

$\begin{array}{r} 47 \\ 49 \end{array}$
 $\begin{array}{r} 46 \\ 40 \end{array}$
 $\begin{array}{r} 483 \\ 317 \end{array}$
 $\begin{array}{r} 502 \\ 317 \end{array}$
 $\begin{array}{r} 465 \\ 22 \end{array}$
 $\begin{array}{r} 456 \\ 100 \end{array}$
 $\begin{array}{r} 428 \\ 12 \end{array}$
 $\begin{array}{r} 436 \\ 22 \end{array}$
 $\begin{array}{r} 446 \\ 22 \end{array}$
 $\begin{array}{r} 477 \\ 458 \end{array}$
 $\begin{array}{r} 469 \\ 458 \end{array}$
 $\begin{array}{r} 470 \\ 506 \end{array}$

Tap Hyd. Lt. Sta. 103+73

$\begin{array}{r} 767 \\ 49 \end{array}$
 $\begin{array}{r} 762 \\ 44 \end{array}$
 $\begin{array}{r} 721 \\ 315 \end{array}$
 $\begin{array}{r} 70 \\ 22 \end{array}$
 $\begin{array}{r} 688 \\ 12 \end{array}$
 $\begin{array}{r} 654 \\ 102 \end{array}$
 $\begin{array}{r} 736 \\ 22 \end{array}$
 $\begin{array}{r} 771 \\ 321 \end{array}$
 $\begin{array}{r} 745 \\ 321 \end{array}$
 $\begin{array}{r} 726 \\ 429 \end{array}$
 $\begin{array}{r} 732 \\ 483 \end{array}$

$\begin{array}{r} 717 \\ 49 \end{array}$
 $\begin{array}{r} 697 \\ 316 \end{array}$
 $\begin{array}{r} 681 \\ 22 \end{array}$
 $\begin{array}{r} 671 \\ 118 \end{array}$
 $\begin{array}{r} 671 \\ 12,2 \end{array}$
 $\begin{array}{r} 692 \\ 22 \end{array}$
 $\begin{array}{r} 721 \\ 322 \end{array}$
 $\begin{array}{r} 768 \\ 322 \end{array}$
 $\begin{array}{r} 732 \\ 429 \end{array}$
 $\begin{array}{r} 714 \\ 483 \end{array}$
 $\begin{array}{r} 711 \\ 483 \end{array}$

$\begin{array}{r} 719 \\ 49 \end{array}$
 $\begin{array}{r} 701 \\ 41,5 \end{array}$
 $\begin{array}{r} 712 \\ 41,5 \end{array}$
 $\begin{array}{r} 698 \\ 316 \end{array}$
 $\begin{array}{r} 675 \\ 22 \end{array}$
 $\begin{array}{r} 665 \\ 12 \end{array}$
 $\begin{array}{r} 636 \\ 12,2 \end{array}$
 $\begin{array}{r} 685 \\ 22 \end{array}$
 $\begin{array}{r} 714 \\ 322 \end{array}$
 $\begin{array}{r} 755 \\ 322 \end{array}$
 $\begin{array}{r} 718 \\ 423 \end{array}$
 $\begin{array}{r} 712 \\ 483 \end{array}$
 $\begin{array}{r} 705 \\ 483 \end{array}$

$\begin{array}{r} 692 \\ 48 \end{array}$
 $\begin{array}{r} 645 \\ 417 \end{array}$
 $\begin{array}{r} 714 \\ 317 \end{array}$
 $\begin{array}{r} 667 \\ 22 \end{array}$
 $\begin{array}{r} 632 \\ 12 \end{array}$
 $\begin{array}{r} 617 \\ 12,2 \end{array}$
 $\begin{array}{r} 654 \\ 22 \end{array}$
 $\begin{array}{r} 681 \\ 321 \end{array}$
 $\begin{array}{r} 726 \\ 321 \end{array}$
 $\begin{array}{r} 685 \\ 423 \end{array}$
 $\begin{array}{r} 688 \\ 423 \end{array}$
 $\begin{array}{r} 681 \\ 483 \end{array}$

$\begin{array}{r} 622 \\ 48 \end{array}$
 $\begin{array}{r} 622 \\ 41,7 \end{array}$
 $\begin{array}{r} 637 \\ 319 \end{array}$
 $\begin{array}{r} 681 \\ 319 \end{array}$
 $\begin{array}{r} 641 \\ 22 \end{array}$
 $\begin{array}{r} 611 \\ 117 \end{array}$
 $\begin{array}{r} 583 \\ 123 \end{array}$
 $\begin{array}{r} 625 \\ 22 \end{array}$
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 $\begin{array}{r} 654 \\ 423 \end{array}$
 $\begin{array}{r} 647 \\ 483 \end{array}$
 $\begin{array}{r} 646 \\ 483 \end{array}$

$\begin{array}{r} 600 \\ 48 \end{array}$
 $\begin{array}{r} 600 \\ 41,7 \end{array}$
 $\begin{array}{r} 665 \\ 32 \end{array}$
 $\begin{array}{r} 621 \\ 22 \end{array}$
 $\begin{array}{r} 588 \\ 117 \end{array}$
 $\begin{array}{r} 558 \\ 123 \end{array}$
 $\begin{array}{r} 599 \\ 22 \end{array}$
 $\begin{array}{r} 632 \\ 32,2 \end{array}$
 $\begin{array}{r} 680 \\ 32,2 \end{array}$
 $\begin{array}{r} 634 \\ 423 \end{array}$
 $\begin{array}{r} 618 \\ 483 \end{array}$
 $\begin{array}{r} 620 \\ 483 \end{array}$

$\begin{array}{r} 581 \\ 47,6 \end{array}$
 $\begin{array}{r} 581 \\ 41,6 \end{array}$
 $\begin{array}{r} 596 \\ 31,7 \end{array}$
 $\begin{array}{r} 697 \\ 31,7 \end{array}$
 $\begin{array}{r} 604 \\ 22 \end{array}$
 $\begin{array}{r} 573 \\ 117 \end{array}$
 $\begin{array}{r} 542 \\ 12,2 \end{array}$
 $\begin{array}{r} 577 \\ 22 \end{array}$
 $\begin{array}{r} 610 \\ 32,2 \end{array}$
 $\begin{array}{r} 658 \\ 32,2 \end{array}$
 $\begin{array}{r} 614 \\ 423 \end{array}$
 $\begin{array}{r} 596 \\ 483 \end{array}$
 $\begin{array}{r} 597 \\ 483 \end{array}$

$\begin{array}{r} 569 \\ 47,6 \end{array}$
 $\begin{array}{r} 562 \\ 41,6 \end{array}$
 $\begin{array}{r} 580 \\ 31,7 \end{array}$
 $\begin{array}{r} 628 \\ 31,7 \end{array}$
 $\begin{array}{r} 586 \\ 22 \end{array}$
 $\begin{array}{r} 557 \\ 117 \end{array}$
 $\begin{array}{r} 524 \\ 12,2 \end{array}$
 $\begin{array}{r} 558 \\ 22 \end{array}$
 $\begin{array}{r} 591 \\ 32,2 \end{array}$
 $\begin{array}{r} 632 \\ 32,2 \end{array}$
 $\begin{array}{r} 587 \\ 423 \end{array}$
 $\begin{array}{r} 575 \\ 483 \end{array}$
 $\begin{array}{r} 569 \\ 483 \end{array}$

$\begin{array}{r} 549 \\ 47,7 \end{array}$
 $\begin{array}{r} 544 \\ 41,3 \end{array}$
 $\begin{array}{r} 562 \\ 31,6 \end{array}$
 $\begin{array}{r} 610 \\ 31,6 \end{array}$
 $\begin{array}{r} 568 \\ 22 \end{array}$
 $\begin{array}{r} 540 \\ 117 \end{array}$
 $\begin{array}{r} 503 \\ 12,2 \end{array}$
 $\begin{array}{r} 539 \\ 22 \end{array}$
 $\begin{array}{r} 570 \\ 32,2 \end{array}$
 $\begin{array}{r} 617 \\ 32,2 \end{array}$
 $\begin{array}{r} 565 \\ 423 \end{array}$
 $\begin{array}{r} 552 \\ 483 \end{array}$
 $\begin{array}{r} 546 \\ 483 \end{array}$

$\begin{array}{r} 528 \\ 47,7 \end{array}$
 $\begin{array}{r} 521 \\ 41,3 \end{array}$
 $\begin{array}{r} 540 \\ 31,6 \end{array}$
 $\begin{array}{r} 592 \\ 31,6 \end{array}$
 $\begin{array}{r} 544 \\ 22 \end{array}$
 $\begin{array}{r} 512 \\ 117 \end{array}$
 $\begin{array}{r} 473 \\ 12,2 \end{array}$
 $\begin{array}{r} 520 \\ 22 \end{array}$
 $\begin{array}{r} 552 \\ 32,2 \end{array}$
 $\begin{array}{r} 597 \\ 32,2 \end{array}$
 $\begin{array}{r} 555 \\ 423 \end{array}$
 $\begin{array}{r} 542 \\ 483 \end{array}$
 $\begin{array}{r} 528 \\ 483 \end{array}$

Sta	+	A ✓	-	E/CX
		969.56		
106	+50			65.05
	+75			65.29
107				65.52
	+25			65.81
	+50			66.14
	+75			66.48
108				66.79
	+25			67.15
	+50			67.47
T.P.	2.37	975.51 ✓	1.42	968.14 ✓
	+75			67.78
109				68.14

15.

6.

12.

502 500 519 567 529 496 451 501 528 575 526 519 5.05
475 415 316 316 22 117 122 22 322 322 423 483

64.60

64.55

480 480 500 550 503 472 427 475 507 552 5.11 499 491
475 415 316 316 22 117 122 22 322 322 423 483

64.84

64.81

456 461 478 528 475 439 404 451 487 533 489 473 461
477 416 318 318 22 118 122 22 321 321 422 479

65.17

65.05

419 425 492 488 443 411 375 414 448 495 451 433 420
477 416 318 318 22 118 122 22 321 321 422 479

65.45

65.42

370 395 410 453 410 381 392 383 412 460 417 409 391
476 416 318 318 22 117 121 22 321 321 422 482

65.75

65.73

355 362 420 377 352 398 338 370 420 378 368 358
476 416 32 22 117 121 22 321 321 422 502

66.04

66.18

346 353 342 315 277 296 326 277 334 325 310
318 318 22 118 122 22 322 322 423 502

66.41

66.60

292 305 315 366 315 282 241 265 288 331 269 247
493 416 318 318 22 118 122 22 321 321 423 502

66.74

66.91

261 272 281 339 283 247 209 231 251 273 250 232 217
493 416 318 318 22 118 123 22 325 325 423 502

67.09

67.26

2519 109

845 842 840 883 837 805 773 791 811 849 804 787 773
493 416 318 318 22 118 123 22 322 322 423 502

67.46

67.60

803 793 813 858 807 769 737 748 761 800 756 739 728
50 42 318 318 22 118 122 22 322 322 423 502

67.82

68.03

Sta.	+	-	Elev.
		975.51 ✓	
109	+25		68.49
	+50		68.90
T.P.	574	975.46 ✓	969.72 ✓
	+75		69.31
110			69.72
	+25		69.96
	+50		70.27
	+75		70.52
111			70.89
T.P.	588	977.49 ✓	971.61 ✓
	+25		71.38
	+50		71.62
	+80.45		71.91

Lt

K

Rt

68.22 68.40

$\frac{760}{496}$	$\frac{763}{417}$	$\frac{823}{32}$	$\frac{765}{22}$	$\frac{729}{119}$	$\frac{702}{122}$	$\frac{711}{22}$	$\frac{730}{22}$	$\frac{758}{321}$	$\frac{714}{321}$	$\frac{704}{421}$	$\frac{681}{501}$
-------------------	-------------------	------------------	------------------	-------------------	-------------------	------------------	------------------	-------------------	-------------------	-------------------	-------------------

68.60 68.82

$\frac{707}{496}$	$\frac{712}{417}$	$\frac{742}{319}$	$\frac{785}{319}$	$\frac{732}{22}$	$\frac{691}{119}$	$\frac{661}{122}$	$\frac{669}{22}$	$\frac{686}{22}$	$\frac{716}{321}$	$\frac{671}{321}$	$\frac{656}{421}$	$\frac{646}{501}$
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2.56.110

68.96 69.21

$\frac{652}{496}$	$\frac{658}{417}$	$\frac{743}{32}$	$\frac{690}{22}$	$\frac{680}{119}$	$\frac{615}{122}$	$\frac{625}{22}$	$\frac{642}{22}$	$\frac{674}{321}$	$\frac{628}{321}$	$\frac{612}{421}$	$\frac{601}{501}$
-------------------	-------------------	------------------	------------------	-------------------	-------------------	------------------	------------------	-------------------	-------------------	-------------------	-------------------

69.37 69.56

$\frac{620}{499}$	$\frac{638}{418}$	$\frac{664}{319}$	$\frac{714}{319}$	$\frac{652}{22}$	$\frac{609}{12}$	$\frac{574}{12}$	$\frac{591}{22}$	$\frac{602}{22}$	$\frac{634}{32}$	$\frac{587}{32}$	$\frac{572}{421}$	$\frac{556}{500}$
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69.71 69.83

$\frac{592}{499}$	$\frac{610}{418}$	$\frac{633}{32}$	$\frac{618}{22}$	$\frac{618}{12}$	$\frac{575}{12}$	$\frac{550}{12}$	$\frac{563}{22}$	$\frac{581}{22}$	$\frac{615}{22}$	$\frac{567}{32}$	$\frac{545}{421}$	$\frac{532}{50}$
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70.11 70.10

$\frac{586}{498}$	$\frac{578}{417}$	$\frac{583}{319}$	$\frac{630}{319}$	$\frac{577}{22}$	$\frac{535}{12}$	$\frac{519}{12}$	$\frac{536}{22}$	$\frac{556}{22}$	$\frac{595}{32}$	$\frac{548}{32}$	$\frac{508}{504}$
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70.39 70.40

$\frac{528}{498}$	$\frac{523}{417}$	$\frac{539}{319}$	$\frac{588}{319}$	$\frac{541}{22}$	$\frac{507}{12}$	$\frac{494}{12}$	$\frac{506}{22}$	$\frac{529}{22}$	$\frac{573}{32}$	$\frac{525}{32}$	$\frac{488}{504}$
-------------------	-------------------	-------------------	-------------------	------------------	------------------	------------------	------------------	------------------	------------------	------------------	-------------------

70.71 70.69

$\frac{474}{50}$	$\frac{485}{415}$	$\frac{497}{318}$	$\frac{548}{318}$	$\frac{507}{22}$	$\frac{475}{12}$	$\frac{457}{12}$	$\frac{477}{22}$	$\frac{501}{22}$	$\frac{545}{32}$	$\frac{503}{32}$	$\frac{458}{427}$	$\frac{449}{505}$
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71.07 70.97

$\frac{442}{50}$	$\frac{450}{415}$	$\frac{455}{318}$	$\frac{705}{318}$	$\frac{608}{22}$	$\frac{492}{12}$	$\frac{416}{12}$	$\frac{452}{22}$	$\frac{479}{22}$	$\frac{720}{32}$	$\frac{621}{42}$	$\frac{606}{505}$
------------------	-------------------	-------------------	-------------------	------------------	------------------	------------------	------------------	------------------	------------------	------------------	-------------------

71.41 71.26

$\frac{412}{50}$	$\frac{412}{415}$	$\frac{610}{318}$	$\frac{660}{318}$	$\frac{630}{22}$	$\frac{608}{12}$	$\frac{587}{12}$	$\frac{623}{22}$	$\frac{651}{22}$	$\frac{696}{334}$	$\frac{658}{334}$	$\frac{610}{426}$	$\frac{580}{50.5}$
------------------	-------------------	-------------------	-------------------	------------------	------------------	------------------	------------------	------------------	-------------------	-------------------	-------------------	--------------------

71.80 71.71 70.71

$\frac{560}{50}$	$\frac{567}{415}$	$\frac{623}{318}$	$\frac{589}{22}$	$\frac{569}{12}$	$\frac{68}{12}$	$\frac{678}{22}$	$\frac{606}{22}$	$\frac{637}{34}$	$\frac{613}{504}$	?
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Sta	+	Δ	-	Elev.
		922.99 ✓		
111	+92.95			71.99
112	+25			72.37
	+50			72.67
	+82.71			73.11
T.P.	607	979.78 ✓	278	979.71 ✓
	+94.71			73.23
113	+25			73.53
	+50			73.71
	+75			73.90
114				74.05
T.P.	6.35	780.72 ✓	5.41	779.37
	+25			74.25
	+50			74.51

Lt.

R.

Rt.

$$\begin{array}{r} 537 \ 549 \ 600 \ 577 \ 567 \ 550 \ 564 \ 592 \ 615 \ 598 \\ \hline 494 \ 32 \ 32 \ 22 \ 117 \ 122 \ 22 \ 32 \ 506 \end{array}$$

71.92

71.85

$$\begin{array}{r} 481 \ 495 \ 515 \ 504 \ 505 \ 512 \ 537 \ 557 \ 573 \ 571 \\ \hline 495 \ 415 \ 318 \ 22 \ 12 \ 124 \ 22 \ 334 \ 507 \end{array}$$

72.44

72.12

$$\begin{array}{r} 464 \ 457 \ 461 \ 470 \ 482 \ 503 \ 540 \ 583 \ 598 \ 515 \\ \hline 488 \ 32 \ 22 \ 119 \ 122 \ 22 \ 32 \ 32 \ 506 \end{array}$$

72.79

72.46

$$\begin{array}{r} 396 \ 414 \ 419 \ 430 \ 438 \ 460 \ 515 \ 582 \ 533 \ 503 \\ \hline 494 \ 317 \ 22 \ 116 \ 126 \ 22 \ 324 \ 324 \ 506 \end{array}$$

73.19

72.89

$$\begin{array}{r} 605 \ 631 \ 627 \ 694 \ 655 \ 686 \ 741 \ 810 \ 762 \ 722 \\ \hline 498 \ 319 \ 22 \ 121 \ 122 \ 22 \ 321 \ 321 \ 497 \end{array}$$

73.34

72.92

$$\begin{array}{r} 552 \ 557 \ 608 \ 660 \ 623 \ 610 \ 625 \ 670 \ 716 \ 780 \ 733 \ 676 \\ \hline 528 \ 328 \ 22 \ 121 \ 122 \ 22 \ 321 \ 321 \ 497 \end{array}$$

73.68

73.08

$$\begin{array}{r} 532 \ 558 \ 591 \ 638 \ 611 \ 60 \ 607 \ 647 \ 625 \ 756 \ 714 \ 697 \ 685 \\ \hline 498 \ 413 \ 319 \ 319 \ 22 \ 12 \ 122 \ 22 \ 32 \ 32 \ 423 \ 504 \end{array}$$

73.78

73.31

$$\begin{array}{r} 523 \ 573 \ 626 \ 594 \ 589 \ 588 \ 627 \ 673 \ 732 \ 493 \ 679 \ 661 \\ \hline 498 \ 319 \ 319 \ 22 \ 12 \ 122 \ 22 \ 32 \ 32 \ 423 \ 504 \end{array}$$

73.94

73.51

$$\begin{array}{r} 507 \ 544 \ 539 \ 567 \ 563 \ 573 \ 610 \ 657 \ 701 \ 658 \ 694 \ 692 \\ \hline 496 \ 32 \ 32 \ 22 \ 12 \ 122 \ 22 \ 32 \ 32 \ 423 \ 504 \end{array}$$

74.15

73.68

$$\begin{array}{r} 594 \ 609 \ 618 \ 670 \ 691 \ 634 \ 647 \ 685 \ 725 \ 774 \ 732 \ 726 \ 730 \\ \hline 496 \ 413 \ 52 \ 32 \ 22 \ 12 \ 122 \ 22 \ 32 \ 32 \ 423 \ 483 \end{array}$$

74.38

73.87

$$\begin{array}{r} 588 \ 591 \ 605 \ 658 \ 627 \ 619 \ 621 \ 651 \ 70 \ 747 \ 717 \ 714 \\ \hline 496 \ 413 \ 32 \ 32 \ 22 \ 12 \ 121 \ 22 \ 322 \ 424 \ 484 \end{array}$$

74.53

74.21

542 + π - Elex
982.72 ✓

114 +75 74.75

115 75.13

+25 75.35

T.P. 7.82 982.77 ✓ 5.77 974.95 ✓

+30 75.60

+75 75.90

116 76.25

+25 76.59

+50 76.95

+75 77.27

117 77.60

+25 77.87

14

4

24

74.54

$$\begin{array}{r} 562 \quad 571 \quad 585 \quad 630 \quad 609 \\ 496 \quad 413 \quad 32 \quad 32 \quad 22 \end{array}$$

$$\begin{array}{r} 597 \quad 618 \quad 649 \quad 715 \quad 671 \quad 676 \quad 670 \\ 12 \quad 22 \quad 32 \quad 32 \quad 424 \quad 413 \end{array}$$

75.04

74.81

$$\begin{array}{r} 531 \quad 549 \quad 567 \quad 615 \quad 584 \quad 568 \quad 559 \quad 591 \quad 631 \quad 681 \quad 62 \quad 627 \\ 495 \quad 413 \quad 32 \quad 32 \quad 22 \quad 12 \quad 12 \quad 22 \quad 32 \quad 42 \quad 48 \end{array}$$

75.30

75.17

$$\begin{array}{r} 530 \quad 538 \quad 545 \quad 594 \quad 561 \quad 502 \quad 537 \quad 555 \quad 598 \quad 646 \quad 607 \quad 584 \quad 567 \\ 495 \quad 413 \quad 32 \quad 32 \quad 22 \quad 12 \quad 12 \quad 22 \quad 318 \quad 318 \quad 42 \quad 48 \end{array}$$

75.65

75.45

$$\begin{array}{r} 505 \quad 51 \quad 519 \quad 564 \quad 531 \quad 512 \quad 517 \quad 532 \quad 571 \quad 621 \quad 579 \quad 544 \quad 539 \\ 496 \quad 415 \quad 322 \quad 322 \quad 22 \quad 12 \quad 12 \quad 22 \quad 318 \quad 318 \quad 42 \quad 48 \end{array}$$

75.84

75.65

$$\begin{array}{r} 674 \quad 685 \quad 701 \quad 750 \quad 714 \quad 693 \quad 687 \quad 712 \quad 746 \quad 796 \quad 751 \quad 717 \quad 706 \\ 496 \quad 415 \quad 322 \quad 322 \quad 22 \quad 12 \quad 12 \quad 22 \quad 318 \quad 318 \quad 42 \quad 48 \end{array}$$

76.11

75.97

$$\begin{array}{r} 646 \quad 658 \quad 767 \quad 719 \quad 686 \quad 666 \quad 652 \quad 680 \quad 713 \quad 757 \quad 712 \quad 689 \quad 676 \\ 494 \quad 414 \quad 32 \quad 32 \quad 22 \quad 122 \quad 119 \quad 22 \quad 319 \quad 319 \quad 421 \quad 48 \end{array}$$

76.42

76.28

$$\begin{array}{r} 618 \quad 625 \quad 644 \quad 671 \quad 655 \quad 635 \quad 618 \quad 649 \quad 681 \quad 723 \quad 677 \quad 647 \quad 637 \\ 494 \quad 414 \quad 32 \quad 32 \quad 22 \quad 122 \quad 119 \quad 22 \quad 319 \quad 319 \quad 421 \quad 48 \end{array}$$

76.75

76.66

$$\begin{array}{r} 586 \quad 596 \quad 608 \quad 658 \quad 624 \quad 602 \quad 582 \quad 611 \quad 648 \quad 688 \quad 612 \quad 582 \\ 495 \quad 415 \quad 32 \quad 32 \quad 22 \quad 12 \quad 12 \quad 22 \quad 32 \quad 418 \quad 494 \end{array}$$

77.06

76.92

$$\begin{array}{r} 530 \quad 571 \quad 633 \quad 598 \quad 571 \quad 550 \quad 585 \quad 614 \quad 654 \quad 576 \quad 546 \\ 495 \quad 415 \quad 32 \quad 22 \quad 12 \quad 12 \quad 12 \quad 22 \quad 32 \quad 418 \quad 494 \end{array}$$

77.40

77.24

$$\begin{array}{r} 418 \quad 532 \quad 608 \quad 565 \quad 537 \quad 517 \quad 553 \quad 581 \quad 616 \quad 552 \quad 536 \\ 484 \quad 412 \quad 32 \quad 22 \quad 12 \quad 119 \quad 22 \quad 317 \quad 417 \quad 495 \end{array}$$

77.61

77.61

$$\begin{array}{r} 474 \quad 508 \quad 542 \quad 571 \quad 596 \quad 516 \quad 49 \quad 516 \quad 543 \quad 583 \quad 536 \quad 512 \\ 494 \quad 412 \quad 32 \quad 32 \quad 22 \quad 12 \quad 119 \quad 22 \quad 317 \quad 417 \quad 495 \end{array}$$

Sta.	+	Σ ✓	-	E/ex
		982.77		
117	+50			78.08
T.P.	7.59	988.16 ✓	420	978.57 ✓
	+75			78.32
118				78.57
	+25			78.81
	+50			79.16
	+75			79.58
119				80.02
	+25			80.55
	+50			81.13
	+75			81.52
120				82.02

Lt.

E

Rt.

77.89 77.85
 $\frac{473}{495} \frac{489}{414} \frac{516}{32} \frac{543}{32} \frac{518}{22} \frac{488}{12} \frac{469}{118} \frac{492}{22} \frac{514}{319} \frac{546}{319} \frac{523}{319} \frac{50}{418} \frac{50}{480}$

78.15 78.15
 $\frac{1008}{495} \frac{1011}{414} \frac{1037}{32} \frac{1077}{32} \frac{1033}{22} \frac{1001}{12} \frac{984}{118} \frac{1001}{22} \frac{1024}{319} \frac{1052}{319} \frac{1011}{319} \frac{1017}{418} \frac{1006}{480}$

78.41 78.41
 $\frac{975}{495} \frac{983}{415} \frac{1043}{318} \frac{1062}{22} \frac{975}{12} \frac{959}{119} \frac{975}{22} \frac{100}{32} \frac{1033}{32} \frac{987}{32} \frac{982}{42} \frac{972}{476}$

78.72 78.79
 $\frac{947}{495} \frac{953}{415} \frac{976}{318} \frac{1022}{318} \frac{978}{22} \frac{940}{12} \frac{935}{119} \frac{937}{22} \frac{969}{32} \frac{998}{32} \frac{954}{32} \frac{979}{42} \frac{946}{476}$

78.92 79.07
 $\frac{925}{494} \frac{917}{414} \frac{955}{32} \frac{1046}{32} \frac{952}{22} \frac{929}{121} \frac{909}{119} \frac{939}{22} \frac{969}{319} \frac{918}{319} \frac{892}{418} \frac{894}{478}$

79.26 79.35
 $\frac{910}{494} \frac{891}{414} \frac{925}{32} \frac{968}{32} \frac{922}{22} \frac{880}{121} \frac{858}{119} \frac{881}{22} \frac{909}{318} \frac{931}{318} \frac{885}{418} \frac{850}{478}$

79.62 79.77
 $\frac{90}{504} \frac{884}{42} \frac{902}{321} \frac{944}{321} \frac{89}{22} \frac{854}{122} \frac{814}{119} \frac{839}{22} \frac{866}{319} \frac{894}{319} \frac{847}{413} \frac{806}{483}$

80.20 80.20
 $\frac{858}{504} \frac{809}{42} \frac{839}{321} \frac{886}{321} \frac{833}{22} \frac{796}{122} \frac{761}{119} \frac{796}{22} \frac{818}{319} \frac{848}{319} \frac{802}{413} \frac{758}{483}$

80.77 80.67
 $\frac{801}{502} \frac{783}{418} \frac{790}{321} \frac{832}{321} \frac{776}{22} \frac{739}{122} \frac{703}{119} \frac{749}{22} \frac{769}{318} \frac{794}{318} \frac{750}{417} \frac{702}{487}$

81.30 81.20
 $\frac{748}{502} \frac{736}{418} \frac{732}{321} \frac{768}{321} \frac{723}{22} \frac{686}{122} \frac{644}{119} \frac{696}{22} \frac{712}{318} \frac{743}{318} \frac{698}{417} \frac{633}{50}$

81.83 81.66
 $\frac{658}{498} \frac{672}{417} \frac{667}{321} \frac{711}{321} \frac{667}{22} \frac{633}{122} \frac{614}{119} \frac{650}{22} \frac{664}{319} \frac{686}{319} \frac{644}{416} \frac{582}{50}$

Sta

+

K

-

Eick

988.16 ✓

120 +25

82.41

+50

82.96

+656

83.36

+77.6

83.38

121

84.17

+25

84.74

B.M.

114

987.02 ✓

(987.005)

Lt.

E.

Rt.

82.41 82.22

<u>589</u>	<u>60</u>	<u>593</u>	<u>643</u>	<u>604</u>	<u>575</u>	<u>575</u>	<u>594</u>	<u>61</u>	<u>638</u>	<u>596</u>	<u>535</u>	<u>526</u>
498	416	32	32	22	12.2		12	22	32	32	41.5	49.7

83.04 82.68

<u>539</u>	<u>55</u>	<u>527</u>	<u>583</u>	<u>543</u>	<u>492</u>	<u>520</u>	<u>548</u>	<u>551</u>	<u>563</u>	<u>553</u>	<u>495</u>
497	415	321	321	22	12.2		118	22	32.8	398	506

83.37 83.02

<u>490</u>	<u>492</u>	<u>501</u>	<u>545</u>	<u>508</u>	<u>479</u>	<u>48</u>	<u>514</u>	<u>495</u>	<u>48</u>	<u>445</u>
498	415	321	321	22	12.2		12	22	32	595

83.37 83.57

<u>476</u>	<u>483</u>	<u>415</u>	<u>520</u>	<u>479</u>	<u>478</u>	<u>459</u>	<u>439</u>	<u>442</u>
457	416	32	32	20		20	53	506

84.06 84.10

<u>414</u>	<u>425</u>	<u>421</u>	<u>440</u>	<u>427</u>	<u>41</u>	<u>399</u>	<u>406</u>	<u>416</u>	<u>421</u>	<u>379</u>	<u>34</u>
498	416	322	322	22	12		15	30	403	403	50

84.45 84.49

<u>422</u>	<u>444</u>	<u>311</u>	<u>342</u>	<u>367</u>	<u>372</u>	<u>386</u>	<u>340</u>	<u>29</u>
50	324	195		17	277	326	326	50

Top Hyd Lt. Sta. 120+92

Sta

+

π

-

Elex

