

PASTS

BOOK

No. 380

W205

5

371.0

496 + 00 - 370.36

3.32

371  
370

N.I. 495 + 50 - 370.15

MICROFILMED  
JAN 11 1965

Our Leather Bound Engineers Note Books are carried in the following rulings:

No. 380 LEVEL BOOK. Left and Right Hand Page the same as Left Hand Page of this Book.

No. 382 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 4 x 4 to the inch, Center Line Red.

No. 384 MINING TRANSIT BOOK. Left Hand Page as in this Book, Right Hand Page 8x8 to the inch, Center Line Red.

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### THE FREDERICK POST CO.

ENGINEERING and DRAFTING SUPPLIES

IRVING PARK STATION

CHICAGO, ILL.

92 FIFTH ST.  
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SAN FRANCISCO, CAL.

AGENTS FOR

"BERGER" TRANSITS and LEVELS

"GURLEY" SURVEYING and HYDRAULIC INSTRUMENTS

"CHICAGO" STEEL TAPES, etc.

± and Offset Cuts

From: Sta 431+38.6

To: 553+50

Sta.	+	⌈	⊖ Rod	Offset Rod	⊖ Elev.	Offset Elev.	Grade	⊖ Cut	Offset Cut	
	3.97	404.19								406.22 B.M.
431+38 <sup>1</sup> / <sub>2</sub>			3.5	2.4	400.7	401.9	394.07	6.6	7.8	
+50							395.00			
432			3.4	2.8	400.8	401.5	394.39	6.4	7.1	
+50			3.5	3.0	400.7	401.3	394.38	6.3	6.9	
433			4.2	3.5	400.0	400.1	394.06	5.9	6.0	
+50			4.8	3.9	399.4	400.4	393.75	5.7	6.6	
434			5.2	4.3	399.0	400.0	393.44	5.6	6.6	
+50			5.5	4.7	398.7	399.6	393.12	5.6	6.5	
435			6.0	4.9	398.2	399.4	392.81	5.4	6.6	
+50			6.3	5.1	397.9	399.2	392.50	5.4	6.7	
436			6.5	5.4	397.7	398.9	392.19	5.5	6.7	

Sta.	+	π	-	± Rod	Offset Rod	± El.	Offset El.	Grade	± Cut.	Offset Cut.	-	El.
		404.19										
436			6.5	5.4	397.7	398.9	392.19		5.5	6.7		
+50			6.7	5.6	397.5	398.7	391.88		5.6	6.6		
437			7.0	5.9	397.2	398.4	391.56		5.6	6.8		
+50			6.8	5.6	397.4	398.7	391.25		6.2	6.5		
438			7.5	5.1	396.7	399.2	390.94		<del>6.8</del> 5.9	8.3		
+50			7.6	4.3	396.6	400.0	390.62		6.0	9.4		
439			9.3	3.9	394.9	400.4	390.31		4.6	10.1		
	4.07	401.49									6.77	397.42
+50			5.7	3.4	395.8	398.2	390.00		5.8	8.2		
440			5.4	5.1	396.1	396.4	389.88		6.2	6.5		
+50			5.8	5.8	395.7	395.7	389.75		6.0	5.9		
441			6.1	5.9	395.4	395.6	389.62		5.8	6.0		
+50			6.5	6.0	395.0	395.5	389.50		5.5	6.0		

Sta	+	T	±	Offset	±	Offset	Grade	±	Offset	±	Offset	Elev.
		401.49	-	-	Elev.	Elev.	Grade	±	Offset	±	Offset	Elev.
442			6.0	5.9	395.5	395.6	389.38	6.1	6.2			
+50			7.3	6.1	394.2	395.4	389.25	5.0	6.2			
443			6.3	5.3	395.12	396.2	389.12	6.1	7.1			
+50			7.4	6.0	394.1	395.5	389.00	5.1	6.5			
444			7.6	6.2	393.9	395.3	388.88	5.0	6.4			
+50			7.4	6.4	394.1	395.1	388.75	5.4	6.3			
445			7.1	6.0	394.4	395.5	388.62	5.8	6.9			
+50			6.3	5.8	395.2	395.7	388.50	6.7	7.2	5.83	395.66	
	3.70	399.36										
446			4.2	3.6	395.2	395.8	388.38	6.8	7.4			
+50			5.3	3.9	394.1	395.4	388.25	5.9	7.2			
447			6.2	4.5	393.2	394.9	388.12	5.1	6.8			
+50			6.6	4.7	392.8	394.6	388.00	4.8	6.6	6.13		

Sta	+	π	±	offset	± Elev	offset Elev.	Grade	± Cut	Offset Cut.
		399.36							
448	100		6.5	4.8	392.9	394.6	387.60	5.3	7.0
+50			6.7	5.1	392.7	394.3	387.20	5.5	7.1
449			6.5	5.5	392.9	394.9	386.80	6.1	8.1
+50			7.4	5.8	392.0	393.6	386.40	5.6	7.2
	2.62	396.56							-5.42 393.94
450			5.0	3.2	391.6	393.4	386.00	5.6	7.4 G.B.
+50			6.1	3.8	390.5	392.8	385.68	4.8	7.1
451			6.4	4.1	390.2	392.5	385.36	4.8	7.1
+50			6.5	4.5	390.1	392.1	385.04	5.1	7.1
452			6.5	4.6	390.1	392.0	384.72	5.4	7.3
+50			6.6	4.6	390.0	392.0	384.40	5.6	7.6 G.B.
453			6.5	4.4	390.1	392.2	384.32	5.8	7.9
+50			5.5	4.1	391.1	392.5	384.24	6.9	8.3

Sta	+	π	±	-	Offset	±	El.	Offset	El.	Grade	±	Cut	Offset	Cut.	-	El.
		396.56														
454			4.8		3.9		391.8	392.7	384.14		7.6		8.5			
+50			4.9		3.8		391.7	392.80	384.08		7.6		8.7			
455			4.5		3.7		392.1	392.9	384.00		8.1		8.9	GB		393.42
	1.62	395.04														
+50			3.1		4.3		391.9	390.7	383.75		18.2		6.9			
456			4.1		5.0		390.9	390.0	383.50		7.4		6.5			
+50			4.6		5.2		390.4	389.8	383.25		7.2		6.6			
457			5.1		5.3		389.9	387.7	383.00		6.9		6.7			
+50			5.0		5.5		390.0	389.6	382.75		7.3		6.8			
458			5.3		5.0		389.7	390.0	382.50		7.2		7.5			
+50			5.8		5.8		389.2	389.2	382.25		7.0		7.0			
459			7.4		7.1		387.6	387.7	382.00		5.6		5.9			
+50			8.2		7.8		386.8	387.2	381.62		5.2		5.6			



Sta	Sta	+	π	-	El.	±	Offset El.	±	El.	Offset El.	Grade	± Cut	Offset Cut
			395.04										
454	460					8.4	0.1	386.6	386.9	381.25	5.4	5.7	
	+50					8.5	0.2	386.5	386.8	380.88	5.6	5.9	
455	461					7.8	0.4	387.2	386.6	380.50	6.7	6.1	
	+50					8.3	0.6	386.7	386.4	380.12	6.6	6.3	
456	462					8.8	0.9	386.2	386.1	379.75	6.5	6.3	
				7.50	387.54								
		2.93	"A" 390.47										
	+50	2.86	"B" 390.40										
457	463					"A" 6.1	4.6	384.1	385.8	379.38	4.7	6.4	
						"A" 5.0	4.9	385.5	385.5	379.00	6.5	6.5	
	+50					45.7	5.6	384.8	384.8	378.70	6.1	6.1	
458	464					46.3	5.6	384.2	384.8	378.40	5.8	6.4	
	+50					47.0	5.8	383.5	384.6	378.10	5.4	6.5	
459	465					"C" 6.0	6.0	383.1	384.1	377.80	5.3	6.6	
	+50					47.1	6.3	383.4	384.1	377.50	5.9	6.6	

Sta	+	π	-	EI	±	Offset -	± EI	Offset EI	Grade	± Cut.	Offset Cut.
				387.54							
466					7.6A	6.5B	382.9	383.9	377.20	5.7	6.7
	1.53	<sup>1</sup> / <sub>C</sub> 389.07									
+50			5.10	383.97	7.5A	6.4B	383.0	384.0	376.90	6.1	7.1
	4.14	388.11									
467					5.4	5.4	382.7	382.7	376.60	6.1	6.1
+50					5.9	4.8	382.2	383.3	376.30	5.9	7.0
468					6.0	5.5	382.1	382.6	376.00	6.1	6.6
+50					6.6	5.7	381.5	382.4	375.90	5.6	6.5
469					6.7	6.5	381.4	381.6	375.80	5.6	5.8
+50					7.4	6.9	380.7	381.2	375.70	5.0	5.5
470					7.1	6.8	381.0	381.3	375.60	5.4	5.7
+50					7.2	7.2	380.9	380.9	375.50	5.4	5.4
471					7.6	7.5	380.5	380.6	375.40	5.1	2
+50					7.3	7.9	380.8	380.2	375.30	5.5	

Sta	+	π	-	El.	±	Offset	± El.	Offset	Grade	± Cut.	Offset	Cut.
		388.11										
472					7.9	7.4	380.2	380.70	375.20	5.0	5.5	
	+50				7.6	7.8	380.5	380.30	375.10	5.4	5.2	
	4.22	387.36	4.97	383.14								
473					6.8	7.0	380.6	380.4	375.00	5.6	5.4	
	+50				5.2	7.1	382.2	380.3	374.75	7.5	5.6	
474					5.9	6.6	381.5	380.8	374.50	7.0	6.3	
	+50				6.7	7.2	380.7	380.2	374.25	6.5	6.0	
475					7.0	7.4	380.4	380.0	374.00	6.4	6.0	
	+50				6.5	7.2	380.9	380.2	373.75	7.1	6.5	
476					6.9	7.3	380.5	380.1	373.50	7.0	6.6	
	+50				7.2	6.6	380.2	380.8	373.25	<del>7.0</del>	8.6	
									373.25			
477					7.2	9.0	380.2	378.4	373.00	7.2	5.4	
	+50				8.2	10.7	379.2	376.7	372.75	6.5	4.0	

Sta	+	π	-	El.	±	Offset -	± El.	Offset El.	Grade	± Cut	Offset Cut
		387.36									
478					9.2	10.9	378.2	376.5	372.50	5.7	4.0
+50					9.3	11.6	378.1	375.8	372.25	5.9	3.6
		5.60		381.76							
479					9.8	11.3	377.6	376.1	372.00	5.6	4.1
+50									372.83		
480									371.66		
+50									371.48		
481									371.31		
+50									371.13		
482									370.96		
+50									370.79		
483									370.61		
+50									370.44		

381.89

-0.348%

Sta.	+	π	-	El.	±	Offset	± El	Offset El.	Grade	± Cut	Offset Cut
484									370.24		
	+50								370.09		
485									369.92		
	+50								369.74		
486									369.57		
	+50								369.39		
487									369.22		
	+50								369.04		
488									368.87		
	+50								368.70		
489									368.52		
	+50								368.34		

-0.34898

497 +50

Sta	+	T	-	EI	±	Offset -	± EI	Offset EI	Grade	± Cut	Offset Cut
490									368.17		
	+50								<del>368.00</del>		
491									368.21		
	+50								368.43		
492									368.64		
	+68 <sup>1</sup>								368.93		
	+93 <sup>1</sup>								369.04		
493 +18 <sup>1</sup>									369.14		
	+43 <sup>1</sup>								369.25		
	+68 <sup>1</sup>								369.36		
	+93 <sup>1</sup>								369.47		
494 +18 <sup>1</sup>									369.57		
	+43 <sup>1</sup>								369.68		
	+68 <sup>1</sup>								369.79		

-0.34890  
 +0.42970

Sta	+	π	-	El	♀ -	Offset -	♀ El.	offset El.	Grade	♀ cut	offset cut.
494+84 <sup>B</sup>									369.86		
495									369.93		
+50									370.45		
496									370.36		
+50								0.429	370.57		
497									370.79		
+50 G.B								+	<del>371.0</del>		
498.									371.75		
+50									372.50		
499								1.50	373.25		
+50 G.B								+	<del>374.0</del>		
500									376.0		
+50									378.0		
501								4.00	380.0		
+50									<del>382</del>		

Sta	+	π	-	EI	ϕ -	Offset -	ϕ EI	offset EI	Grade	ϕ cut	offset cut
501+76 <sup>1</sup>	Be							0.70	382.26		
502+01 <sup>1</sup>								1.00	382.51		
502+26 <sup>1</sup>									382.76		
502+50	G.B								X 383.0		
+51 <sup>1</sup>									382.94		
+76 <sup>1</sup>									381.55		
503+01 <sup>1</sup>									380.16		
+26 <sup>1</sup>								5.556%	378.77		
+51 <sup>1</sup>									377.39		
+76 <sup>1</sup>									376.00		
504+01 <sup>1</sup>									374.61		
+30	G.B								X 373.0		
+50									373.28		



Sta	+	+	-	El.	£ -	offset -	£ El.	offset El.	Grade	£ CVT	offset Cut.
505									373.97		
+54 <sup>9</sup>	B.C.								374.73		
+79 <sup>2</sup>									375.08		
506+04 <sup>9</sup>								1.38	375.43		
+29 <sup>2</sup>								*	375.78		
+50	G.B.								X 376.0		
+54 <sup>9</sup>									375.84		
+79 <sup>2</sup>									375.04		
507+04 <sup>9</sup>									374.24		
+29 <sup>2</sup>									373.44		
+54 <sup>9</sup>								0.70	372.64		
+81 <sup>0</sup>	E.C.							3.20	371.85		
508								1	371.26		

Sta	+	π	-	EI.	♀-	offset-	♀EI.	offset EI.	Grade	♀ cut	offset cut.
508	+50							3.20	369.66		
509	+00	G.B.							<del>368.0</del>		
	+50							1.00	367.50		
510	+00								<del>367.0</del>		
	+50								365.25		
511	+00							5.70	363.50		
	+50							3.50	361.75		
512	+00	G.B.							<del>360.0</del>		
	+50								359.80		
513									359.60		
	+51 <sup>3</sup>	B.C						4.00	359.40		
	+76 <sup>3</sup>								359.30		
514	+01 <sup>3</sup>								359.20		

Sta	+	x	-	EI	£-	Offset-	£EI	Offset EI	Grade	£cut	offset cut
514	+26 <sup>3</sup>							4070	359.10		
	+50	G.B.							<del>359.0</del>		
	+51 <sup>3</sup>								358.99		
	+65 <sup>5</sup>	E.C.							358.91		
515									358.69		
	+50								358.38		
516								970	358.07		
	+50							62	357.76		
517								0	357.45		
	+50							1	357.14		
518									356.83		
	+50								356.52		
519									356.21		

Sta	+	π	-	EI	±-	offset-	±EI	offset EI	Grade	± cut	offset cut.
519+50								1.06290	355.90		
520									355.59		
+50									355.28		
521	G.B.								X 355.0		
+50									354.97		
522									354.93		
+50									354.90		
523									354.86		
+50								1.067	354.83		
524									354.79		
+50									354.76		
525									354.72		

525 + 50

526

+ 50

527

+ 50

528

+ 50

529

+ 50

530

+ 50

531

Grade

354.69

354.66

354.63

354.60

354.57

354.53

354.50

354.46

354.43

354.40

354.37

354.33

531+55 = P.I.

532

+50

533

+50

534

+50

535+0 = P.I.

+50

536+00 G.B.

+50

537

Grade

354.30

354.26

354.23

354.20

354.17

354.13

354.10

354.07

354.04

X 354.0

354.38

354.75

0.067

1

+0.7540

537+50

538

+50

539

+50

540 +00 G.B.

+50

541

+50

542

+50

543

Grade.

355.13

355.50

355.88

356.25

356.63

~~357.0~~

356.87

356.78

356.67

356.56

356.45

356.34

543+50

544

+50

545-

+50

546

+50

547

+50

548

+50

549

Grade

356.23

356.12

356.01

355.89

355.78

~~355.67~~

355.56

355.45

355.34

355.23

355.12

355.01



549+50

354.89

550

354.78

+50

354.67

551

90  
2  
2  
2  
354.56

+50

2  
2  
2  
354.45

552

1  
354.34

+50

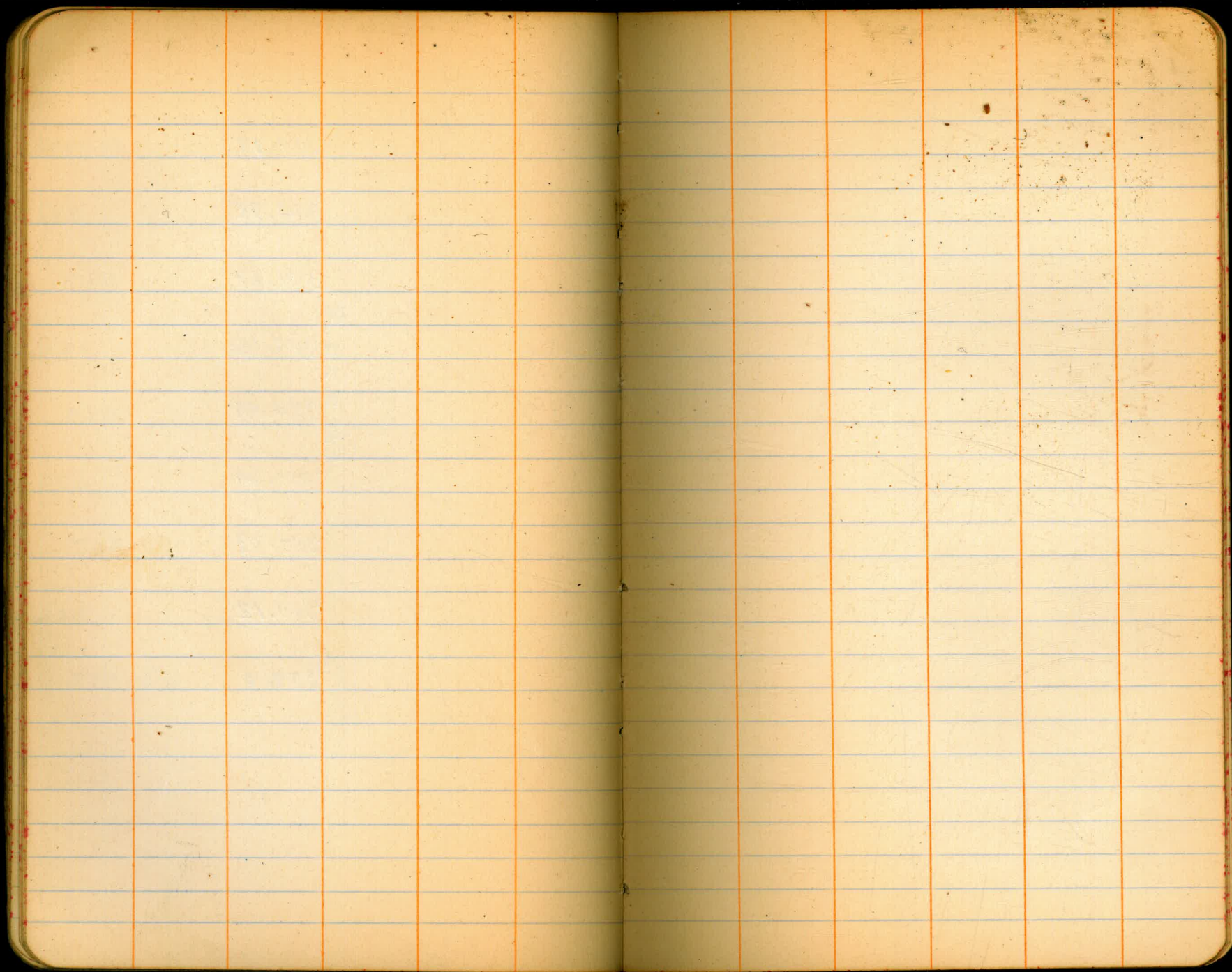
354.23

553

354.12

+50 G.B.

V  
354.0



$$\begin{array}{r} 52 \\ 35 \\ \hline 280 \\ 168 \\ \hline 116 \end{array}$$
$$\begin{array}{r} 56 \\ 16 \\ \hline 336 \\ 56 \\ \hline 0896 \end{array}$$
$$\begin{array}{r} 954 \\ 35 \\ \hline 4770 \\ 2862 \\ \hline 3.3390 \\ 367 \\ \hline 3.34 \\ 363.66 \end{array}$$
$$\begin{array}{r} 165 \\ .5 \\ \hline 384 \\ \hline 825 \\ \hline 383.175 \end{array}$$
$$\begin{array}{r} 75 \\ 10 \\ \hline .0750 \\ .08 \end{array}$$

09