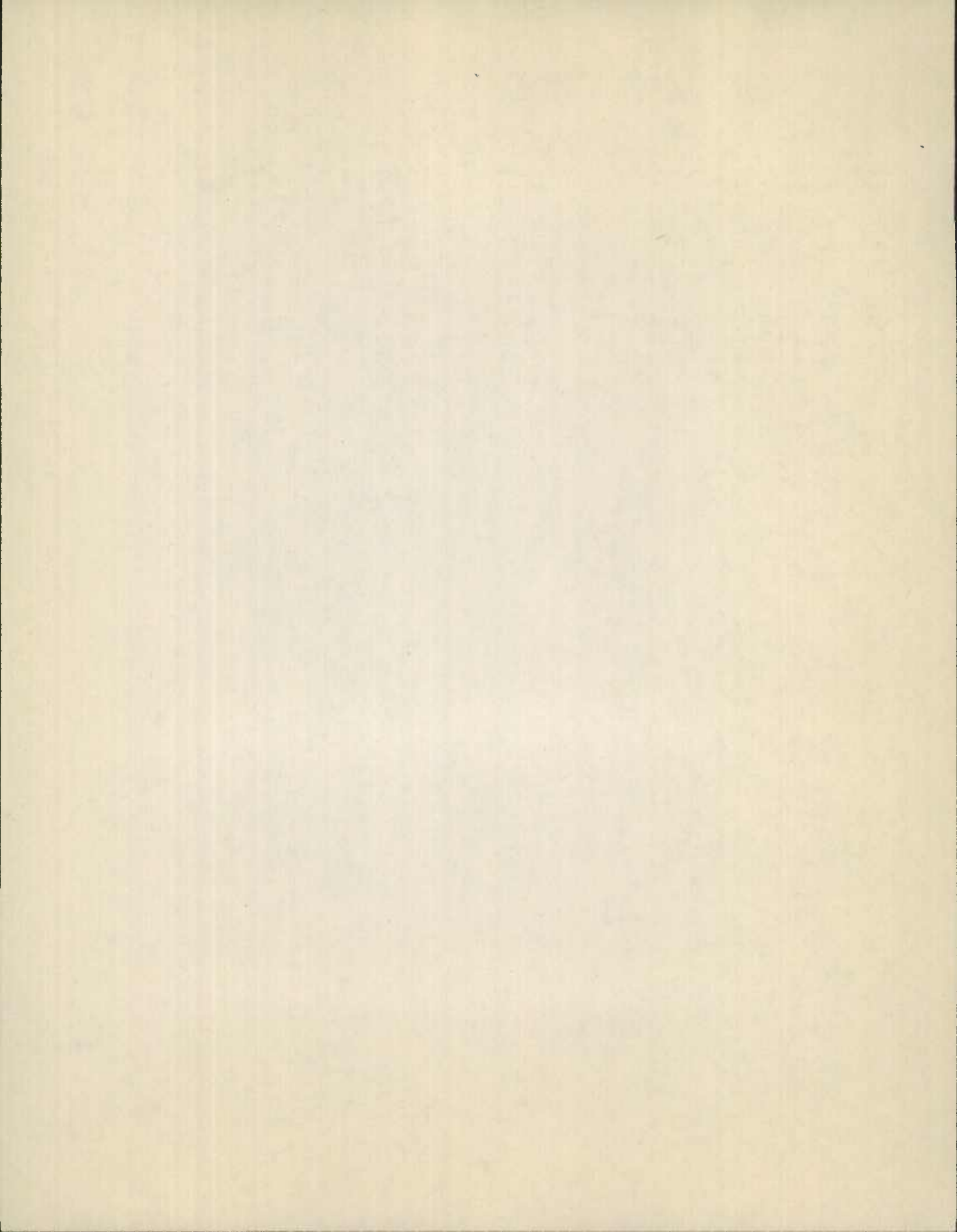


FREDERICK CO

09/23/92 STATE HIGHWAY HPMS SAMPLES  
THAT REQUIRE CURVE DATA

PAGE 7

CO	ROUTE	BEGIN	SECT	LENTH	END	MAP	COORD
1	10 MD 355	10.24	00.04	10.28	C9	684 - 572	
2	10 MD 355	10.28	00.13	10.41	-	-	
3	10 MD 355	10.41	00.02	10.43	-	-	
4	10 MD 355	10.43	00.19	10.62	-	-	
5	10 MD 355	10.62	00.15	10.77	-	-	
6	10 MD 355	12.03	00.47	12.50	-	684 - 551	
7	10 MD 850K	00.04	00.02	00.06	C9	689 - 588	
8	10 MD 850K	00.06	00.12	00.18	-	-	
9	10 MD 850K	00.18	00.04	00.22	-	-	
10	10 MD 850K	00.22	00.03	00.25	-	-	





















✓ 12/4

CURVE - GRADE DATA COLLECTION  
NON - STATE ROADS - FY - 1992

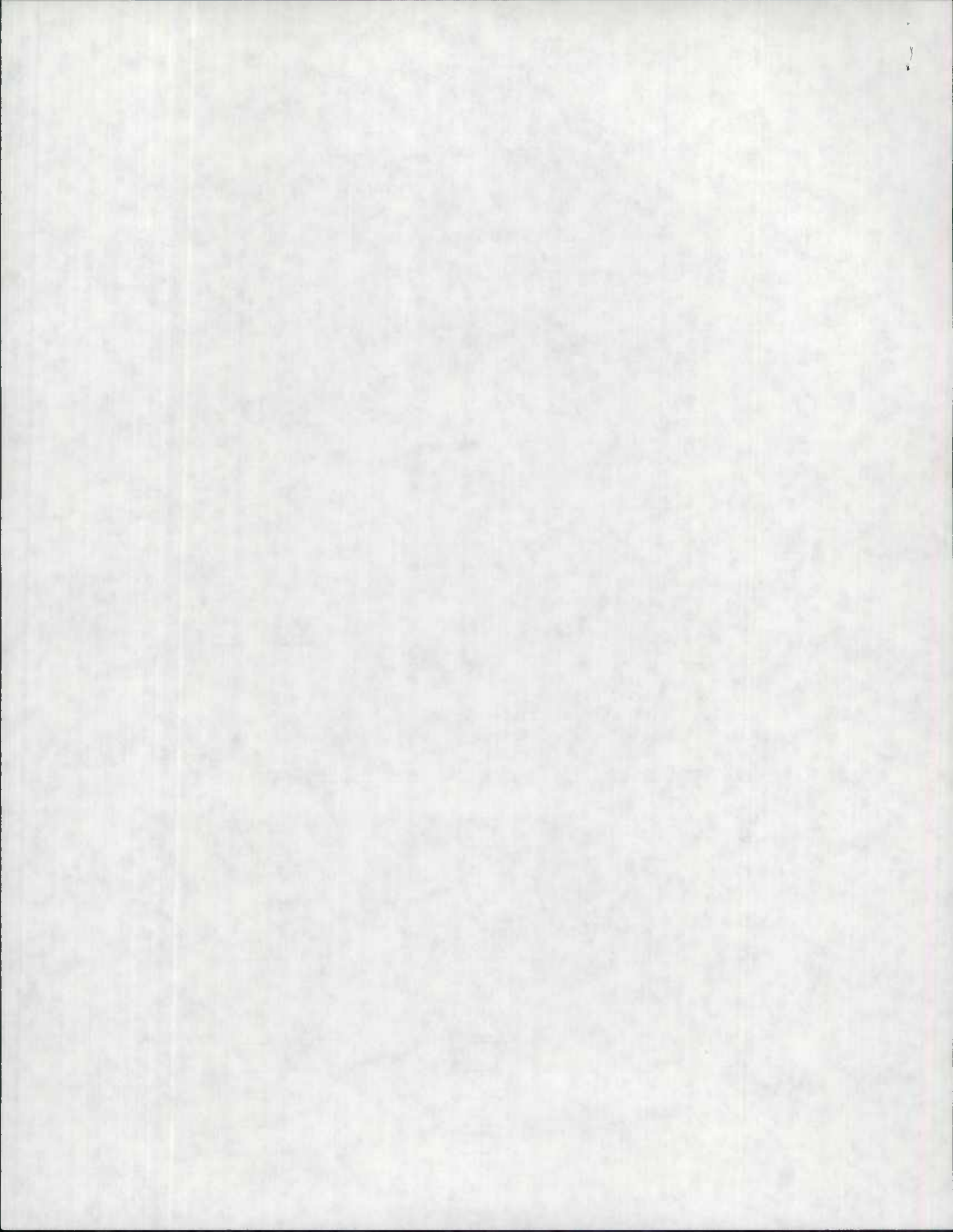
Route No: MD 355  
Sample No: 1  
County: 10

Starting Mile Pt: 10.24  
Ending Mile Pt: 10.28  
(.04)

Horizontal Curve Section

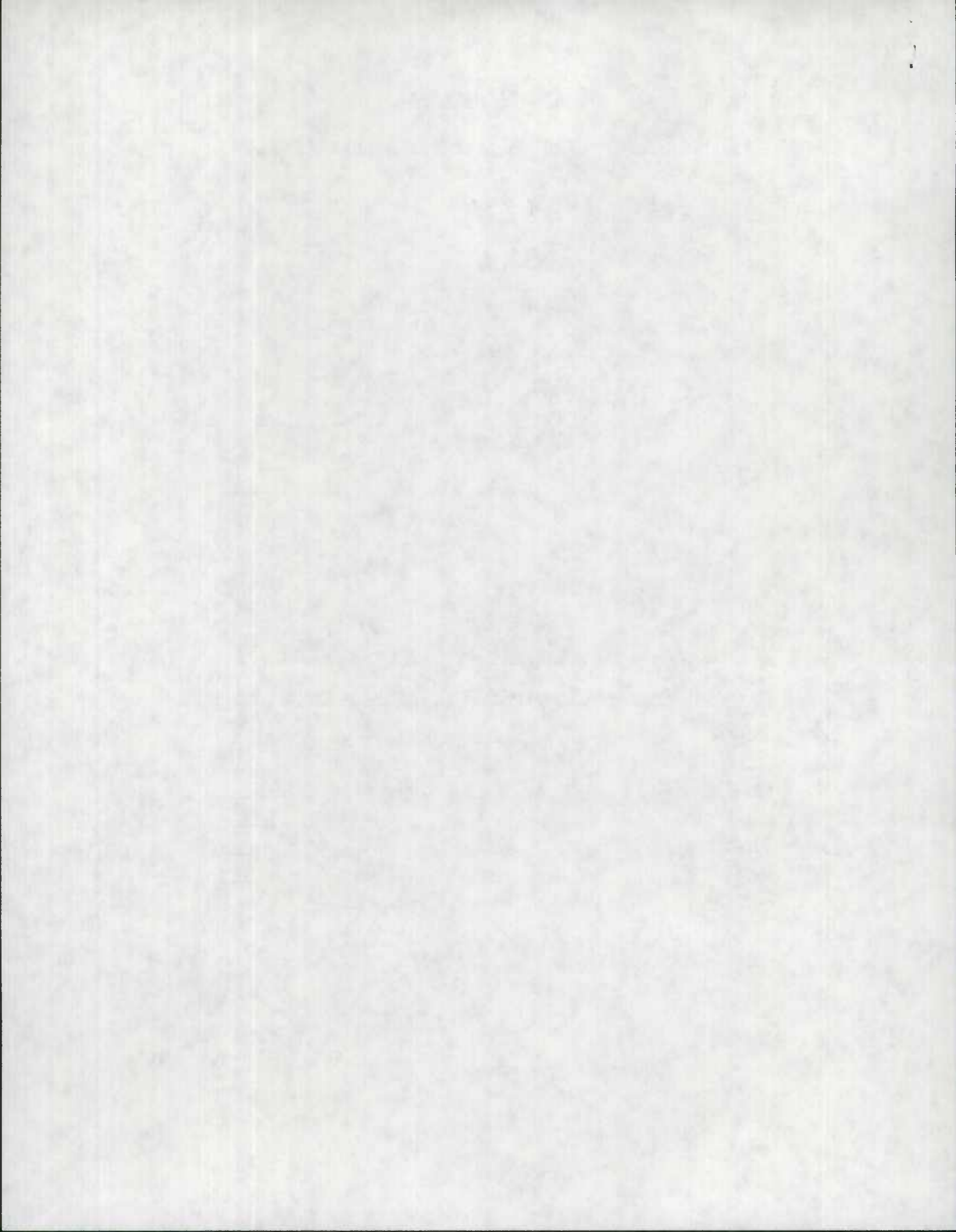
<u>Start Pt.</u> <u>(in ft.)</u>	<u>End Pt.</u> <u>(in ft.)</u>	<u>Chord</u> <u>length</u> <u>(/100ft)</u>	<u>Central</u> <u>Ord. Length</u> <u>(/100ft)</u>	<u>Length of Total</u> <u>Curve in(x.xxmile)</u>
<u>0</u>	<u>213</u>	<u>100</u>	<u>0</u>	
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	<u>Curve</u> <u>Classes</u> <u>by</u> <u>Degree of</u> <u>Curvature</u>	<u>Number of</u> <u>Curves</u> <u>(Right-</u> <u>Justified)</u>	<u>Length</u> <u>of Curves</u> <u>in Class</u> <u>(Implied Decimal)</u> <u>(xx.xxx miles)</u>
a.	0.0-0.4	_____	_____
b.	0.5-1.4	_____	_____
c.	1.5-2.4	_____	_____
d.	2.5-3.4	_____	_____
e.	3.5-4.4	_____	_____
f.	4.5-5.4	_____	_____
g.	5.5-6.9	_____	_____
h.	7.0-8.4	_____	_____
i.	8.5-10.9	_____	_____
j.	11.0-13.9	_____	_____
k.	14.0-19.4	_____	_____
l.	19.5-27.9	_____	_____
m.	23+	_____	_____









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12/4

CURVE - GRADE DATA COLLECTION  
NON - STATE ROADS - FY - 1992

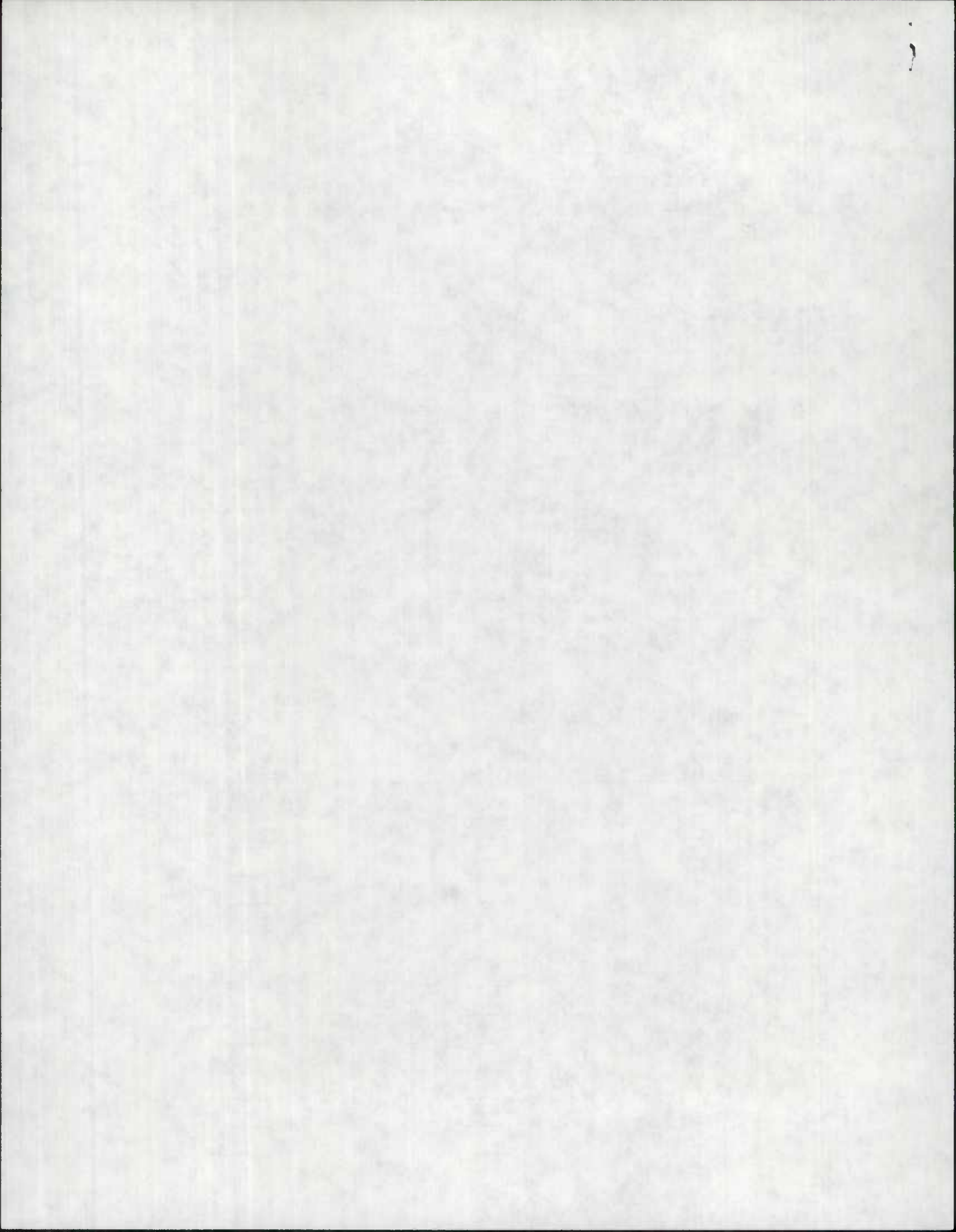
Route No: MD 355  
Sample No: 2  
County: 10

Starting Mile Pt: 10.28  
Ending Mile Pt: 10.41  
(.13)

Horizontal Curve Section

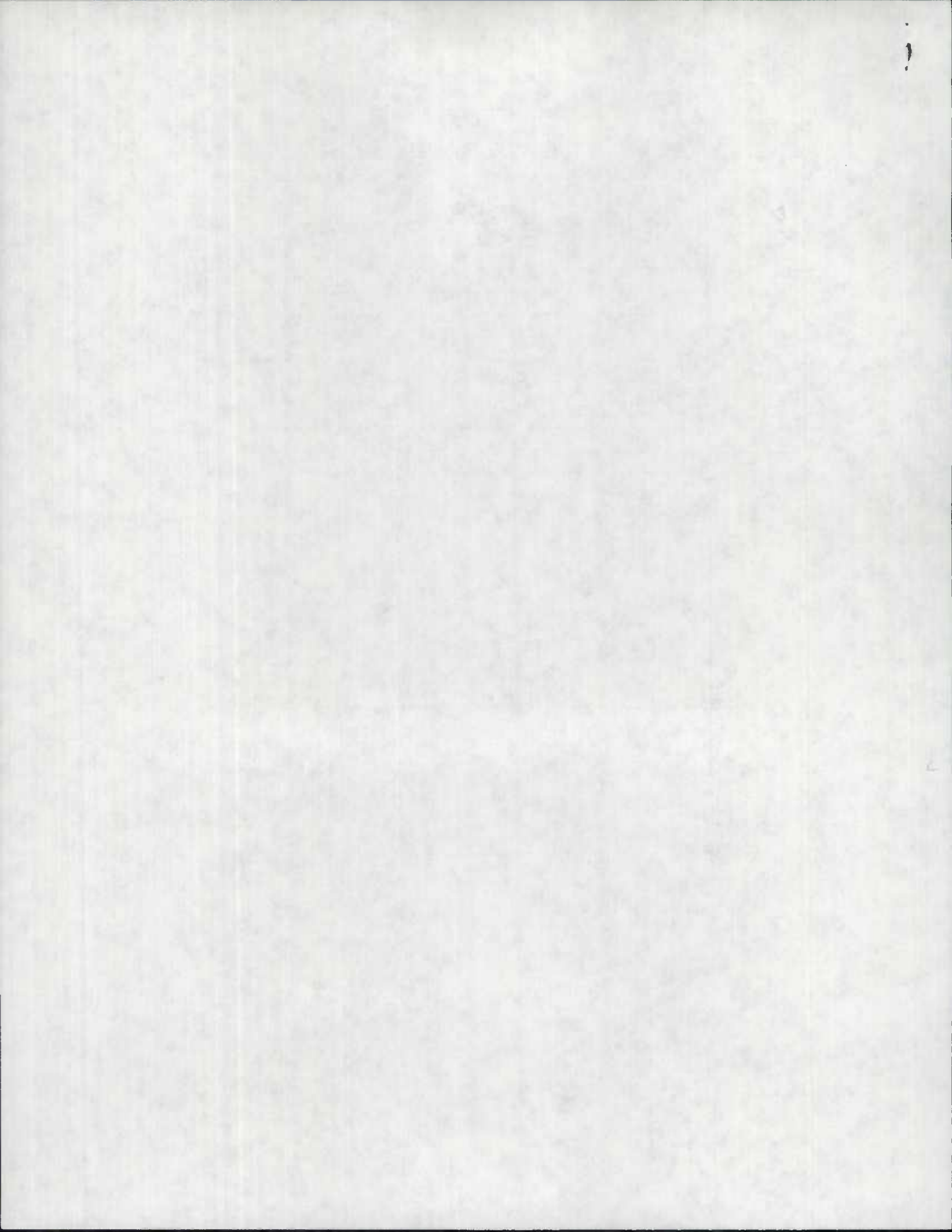
<u>Start Pt.</u> <u>(in ft.)</u>	<u>End Pt.</u> <u>(in ft.)</u>	<u>Chord</u> <u>length</u> <u>(/100ft)</u>	<u>Central</u> <u>Ord1. Length</u> <u>(/100ft)</u>	<u>Length of Total</u> <u>Curve in(x.xxmile)</u>
<u>0</u>	<u>686</u>	<u>100</u>	<u>0</u>	-----
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	<u>Curve</u> <u>Classes</u> <u>by</u> <u>Degree of</u> <u>Curvature</u>	<u>Number of</u> <u>Curves</u> <u>(Right-</u> <u>Justified)</u>	<u>Length</u> <u>of Curves</u> <u>in Class</u> <u>(Implied Decimal)</u> <u>(xx.xxx miles)</u>
a.	0.0-0.4	-----	-----
b.	0.5-1.4	-----	-----
c.	1.5-2.4	-----	-----
d.	2.5-3.4	-----	-----
e.	3.5-4.4	-----	-----
f.	4.5-5.4	-----	-----
g.	5.5-6.9	-----	-----
h.	7.0-8.4	-----	-----
i.	8.5-10.9	-----	-----
j.	11.0-13.9	-----	-----
k.	14.0-19.4	-----	-----
l.	19.5-27.9	-----	-----
m.	23+	-----	-----



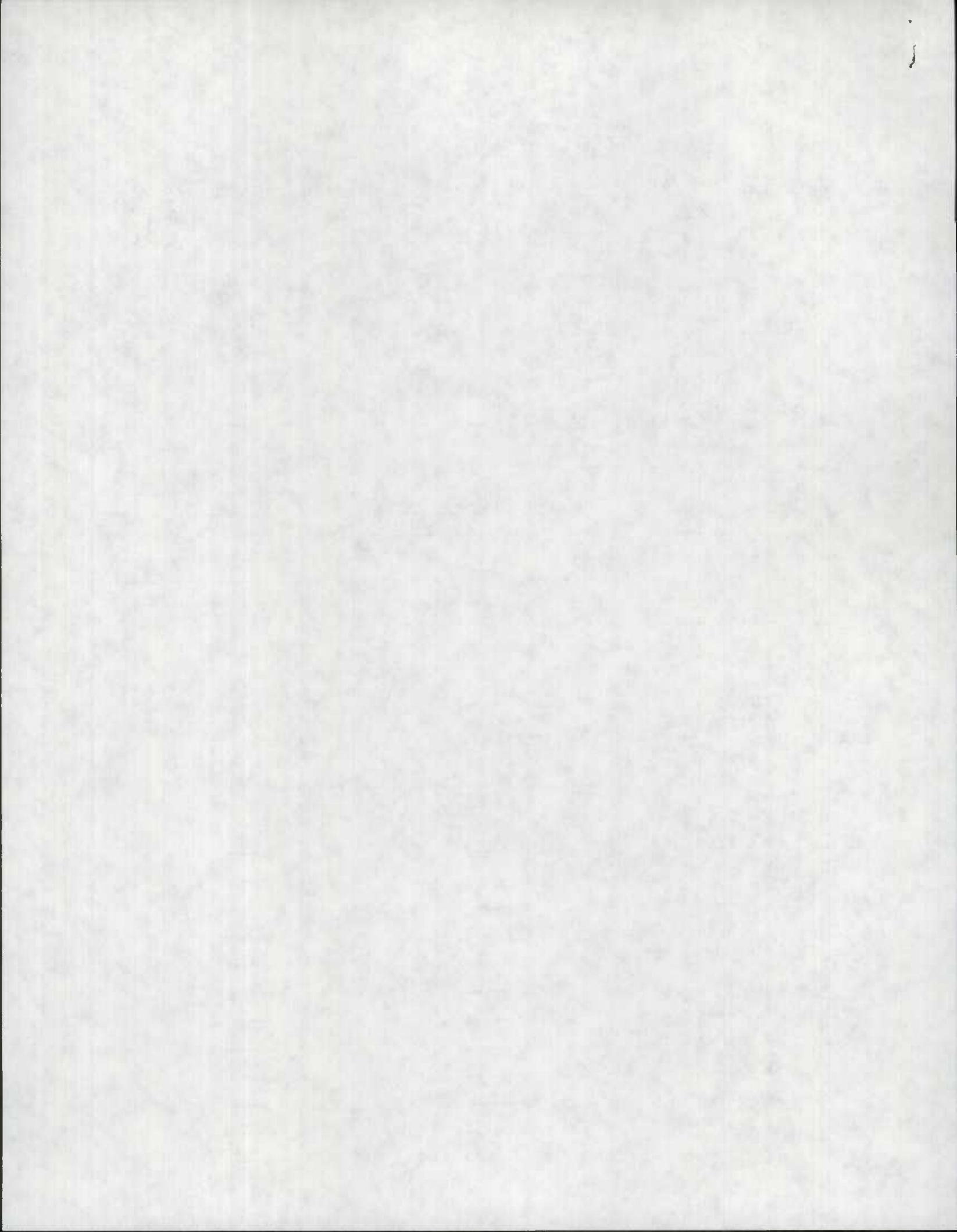








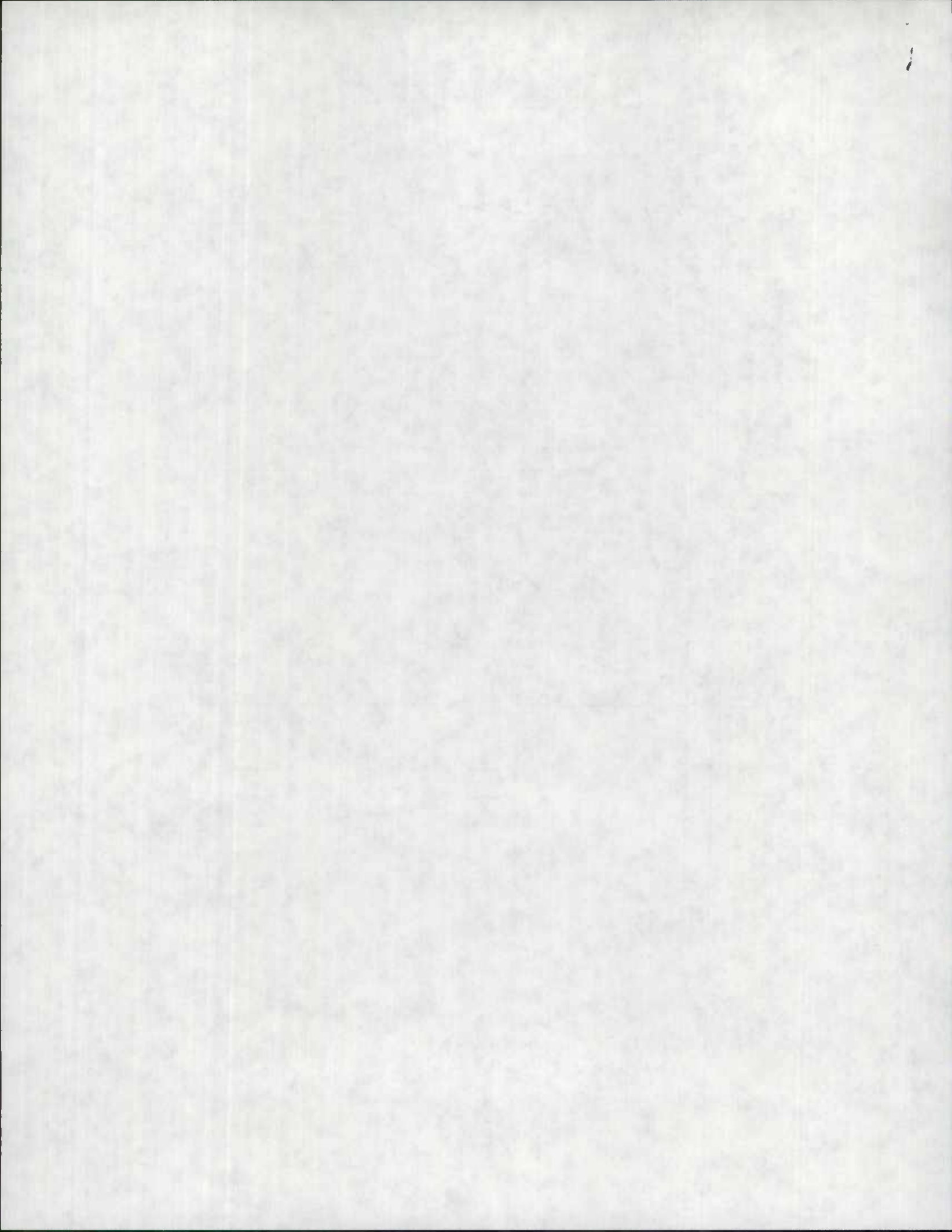




Vertical Curve Section

<u>Start Pt.</u> (in ft.)	<u>End Pt.</u> (in ft.)	<u>Gradient Percent</u>	<u>Length of Curve</u> (in x.xx miles)
0	106	-1.8%	
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	<u>Grade Classes by Gradient (Percent)</u>	<u>Number of Grades (Right- Justified)</u>	<u>Length of Grades in Class (Implied Decimal) (xx.xxx miles)</u>
a.	0.0-0.4	_____	_____
b.	0.5-2.4	_____	_____
c.	2.5-4.4	_____	_____
d.	4.5-6.4	_____	_____
e.	6.5-8.4	_____	_____
f.	8.5-	_____	_____









Vertical Curve Section

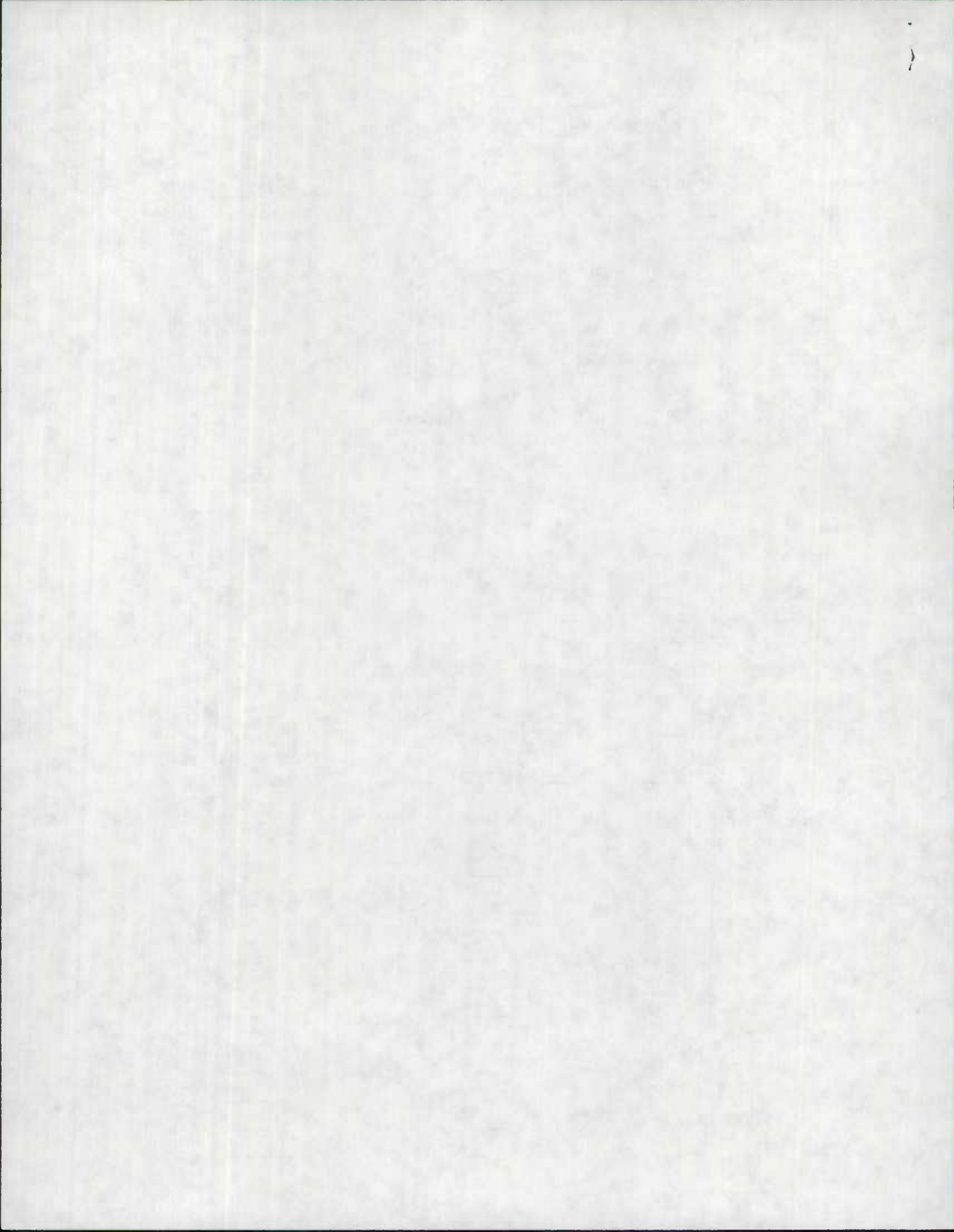
<u>Start Pt.</u> <u>(in ft.)</u>	<u>End Pt.</u> <u>(in ft.)</u>	<u>Gradient Percent</u>	<u>Length of Curve</u> <u>(in x.xx miles)</u>
0	700	-1.1%	-----
700	1003	-5.5%	-----
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	<u>Grade</u> <u>Classes</u> <u>by</u> <u>Gradient</u> <u>(Percent)</u>	<u>Number of</u> <u>Grades</u> <u>(Right-</u> <u>Justified)</u>	<u>Length of</u> <u>Grades in Class</u> <u>(Implied Decimal)</u> <u>(xx.xxx miles)</u>
a.	0.0-0.4	-----	-----
b.	0.5-2.4	-----	-----
c.	2.5-4.4	-----	-----
d.	4.5-6.4	-----	-----
e.	6.5-8.4	-----	-----
f.	8.5-	-----	-----





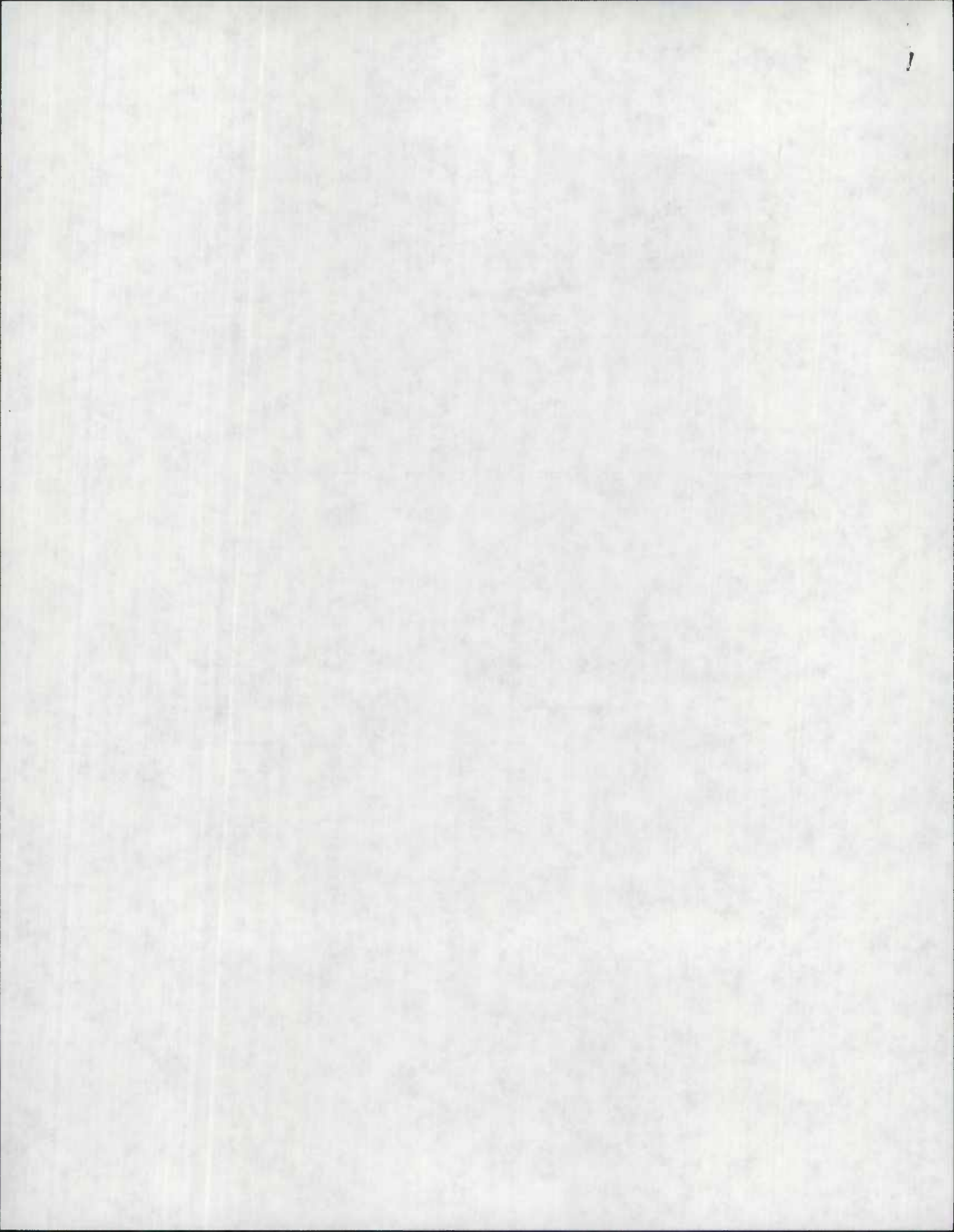




Vertical Curve Section

<u>Start Pt.</u> (in ft.)	<u>End Pt.</u> (in ft.)	<u>Gradient Percent</u>	<u>Length of Curve</u> (in x.xx miles)
0	455	-1.4%	
455	791	0%	

	<u>Grade Classes by Gradient (Percent)</u>	<u>Number of Grades (Right-Justified)</u>	<u>Length of Grades in Class (Implied Decimal) (xx.xxx miles)</u>
a.	0.0-0.4	_____	_____
b.	0.5-2.4	_____	_____
c.	2.5-4.4	_____	_____
d.	4.5-6.4	_____	_____
e.	6.5-8.4	_____	_____
f.	8.5-	_____	_____



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CURVE - GRADE DATA COLLECTION  
NON - STATE ROADS - FY - 1992

Route No: MO 355  
 Sample No: 6  
 County: 10

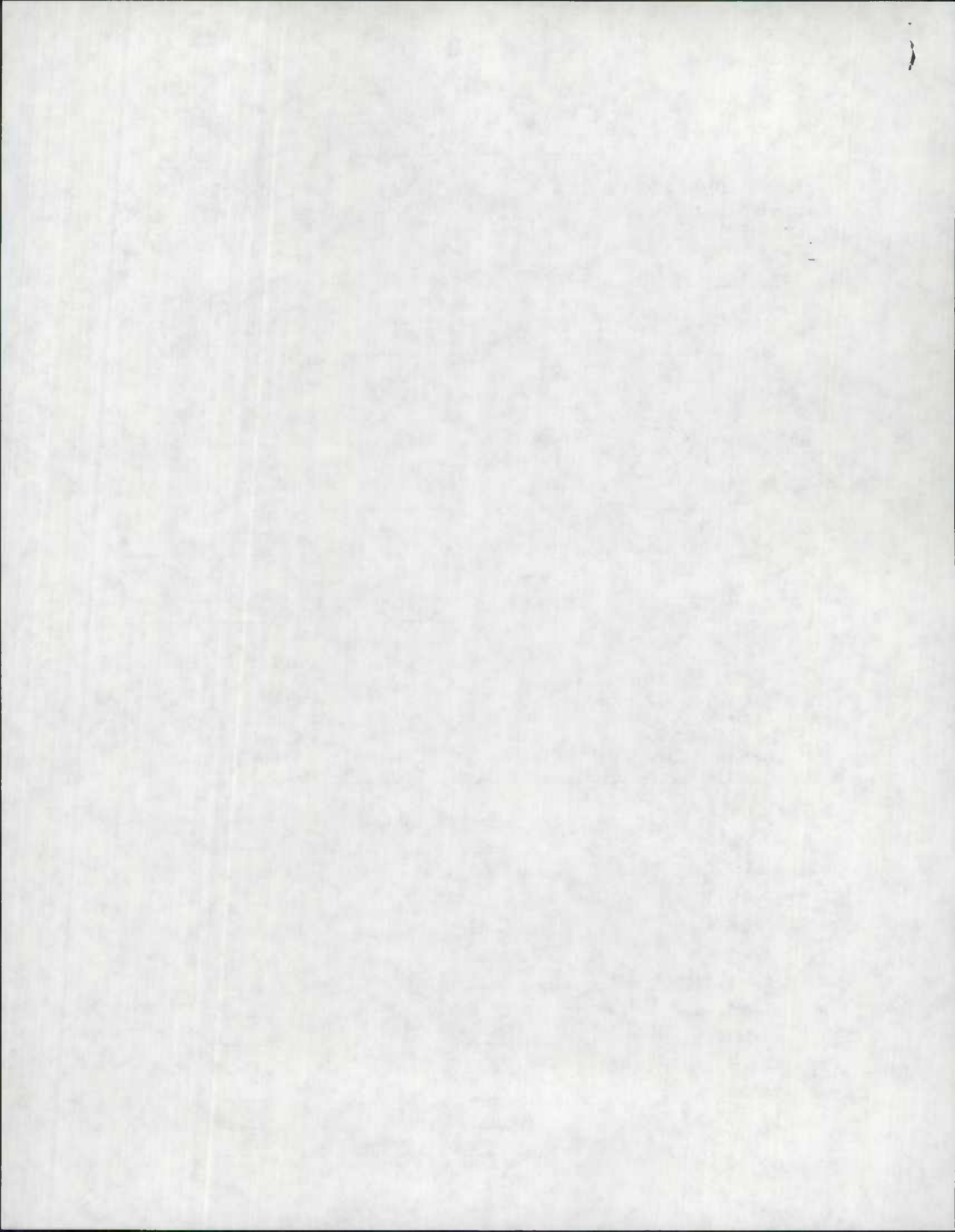
Starting Mile Pt: 12.03  
 Ending Mile Pt: 12.50  
(.47)

Horizontal Curve Section

<u>Start Pt.</u> <u>(in ft.)</u>	<u>End Pt.</u> <u>(in ft.)</u>	<u>Chord</u> <u>length</u> <u>(/100ft)</u>	<u>Central</u> <u>Ord. Length</u> <u>(/100ft)</u>	<u>Length of Total</u> <u>Curve in(x.xxmile)</u>
<u>0</u>	<u>1600</u>	<u>100</u>	<u>0</u>	-----
<u>1600</u>	<u>1890</u>	<u>99.85</u>	-----	-----
<u>1890</u>	<u>2482</u>	<u>100</u>	<u>0</u>	-----
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	<u>Curve</u> <u>Classes</u> <u>by</u> <u>Degree of</u> <u>Curvature</u>	<u>Number of</u> <u>Curves</u> <u>(Right-</u> <u>Justified)</u>	<u>Length</u> <u>of Curves</u> <u>in Class</u> <u>(Implied Decimal)</u> <u>(xx.xxx miles)</u>
a.	0.0-0.4	-----	-----
b.	0.5-1.4	-----	-----
c.	1.5-2.4	-----	-----
d.	2.5-3.4	-----	-----
e.	3.5-4.4	-----	-----
f.	4.5-5.4	-----	-----
g.	5.5-6.9	-----	-----
h.	7.0-8.4	-----	-----
i.	8.5-10.9	-----	-----
j.	11.0-13.9	-----	-----
k.	14.0-19.4	-----	-----
l.	19.5-27.9	-----	-----
m.	23+	-----	-----





Vertical Curve Section

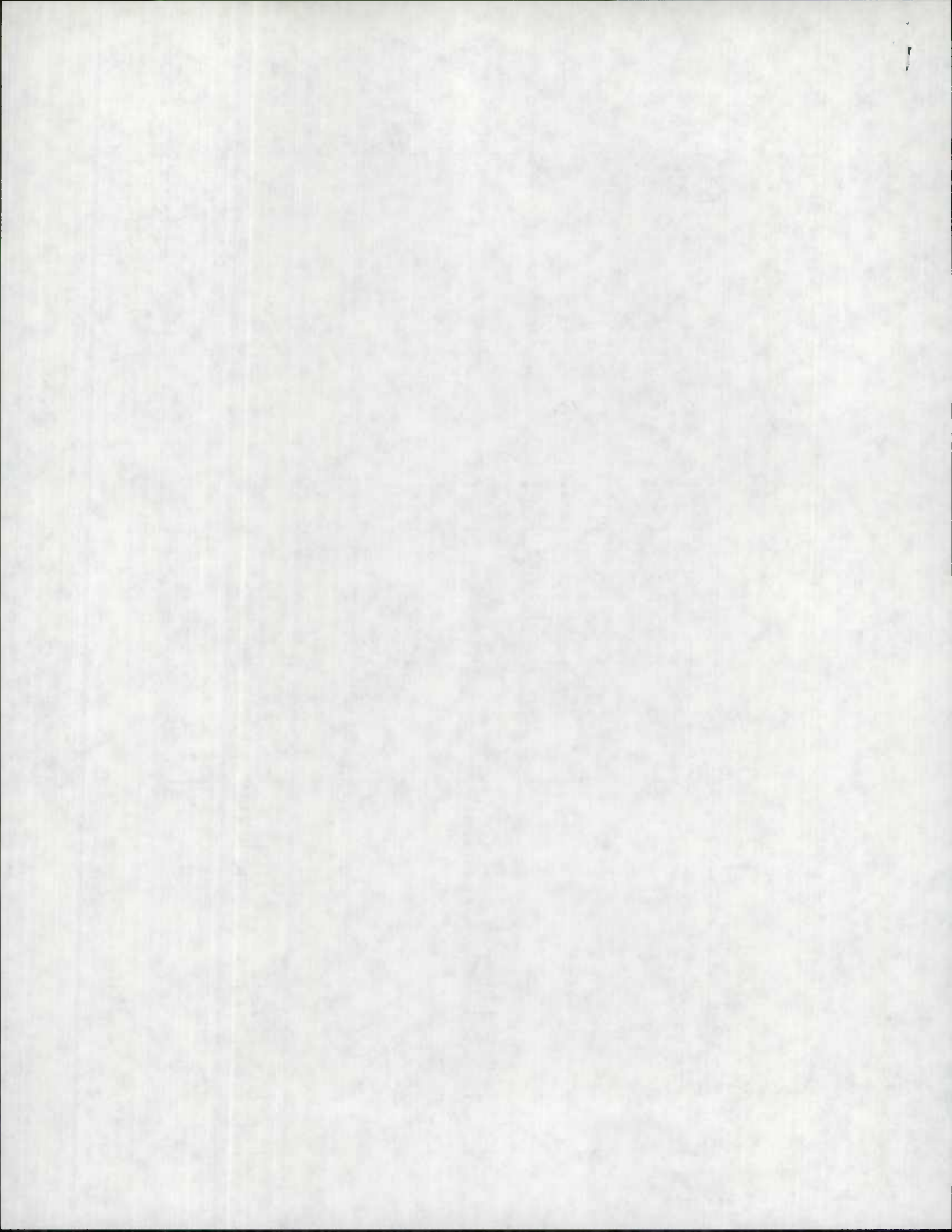
<u>Start Pt.</u> <u>(in ft.)</u>	<u>End Pt.</u> <u>(in ft.)</u>	<u>Gradient Percent</u>	<u>Length of Curve</u> <u>(in x.xx miles)</u>
0	680	+ .4 %	-----
680	1060	+ 2.7 %	-----
1060	1920	+ .3 %	-----
1920	2482	1.1 %	-----
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	<u>Grade</u> <u>Classes</u> <u>by</u> <u>Gradient</u> <u>(Percent)</u>	<u>Number of</u> <u>Grades</u> <u>(Right-</u> <u>Justified)</u>	<u>Length of</u> <u>Grades in Class</u> <u>(Implied Decimal)</u> <u>(xx.xxx miles)</u>
a.	0.0-0.4	-----	-----
b.	0.5-2.4	-----	-----
c.	2.5-4.4	-----	-----
d.	4.5-6.4	-----	-----
e.	6.5-8.4	-----	-----
f.	8.5-	-----	-----









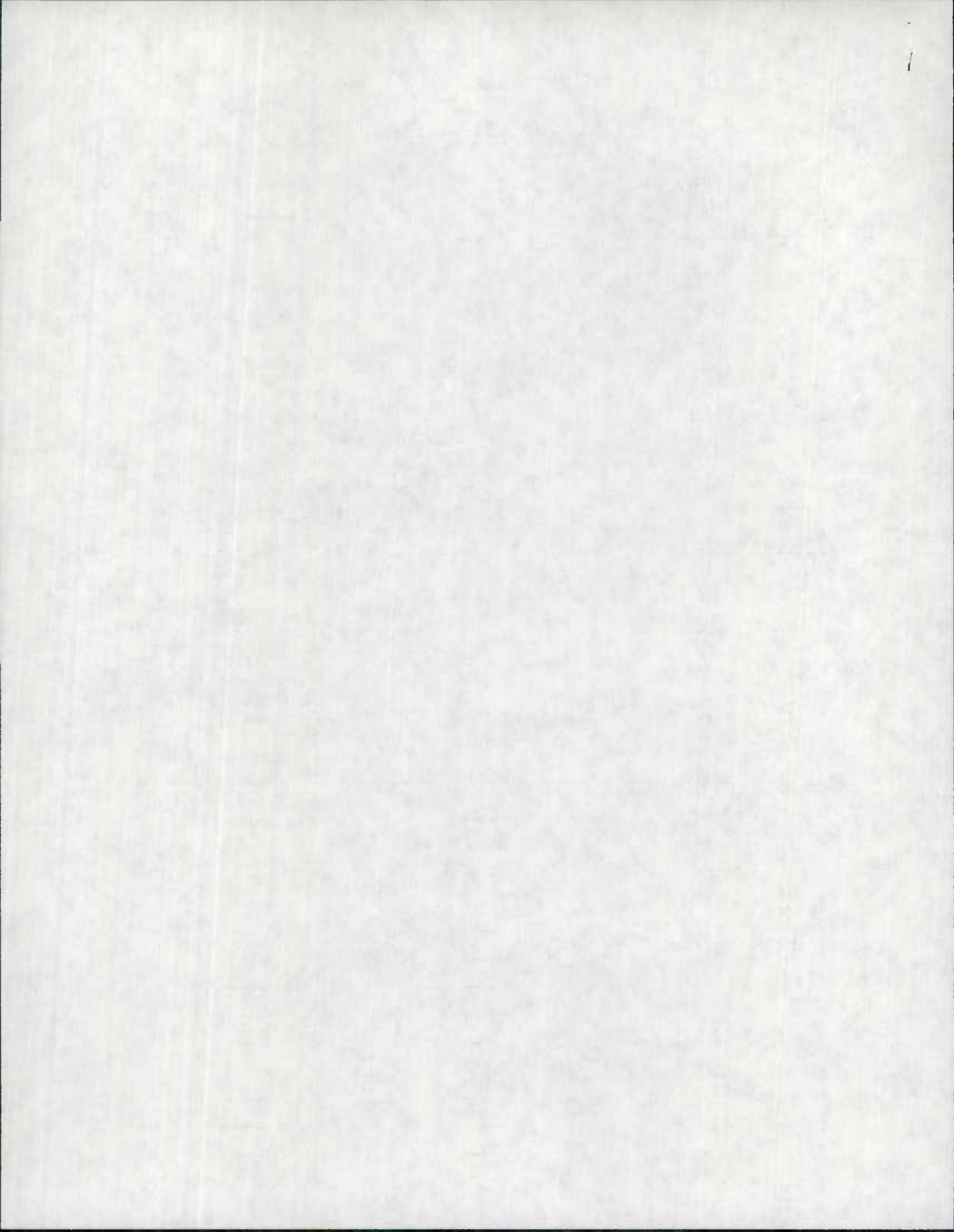
Vertical Curve Section

<u>Start Pt.</u> (in ft.)	<u>End Pt.</u> (in ft.)	<u>Gradient Percent</u>	<u>Length of Curve</u> (in x.xx miles)
0	106	+2.2%	
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	<u>Grade Classes by Gradient (Percent)</u>	<u>Number of Grades (Right- Justified)</u>	<u>Length of Grades in Class (Implied Decimal) (xx.xxx miles)</u>
a.	0.0-0.4	_____	_____
b.	0.5-2.4	_____	_____
c.	2.5-4.4	_____	_____
d.	4.5-6.4	_____	_____
e.	6.5-8.4	_____	_____
f.	8.5-	_____	_____

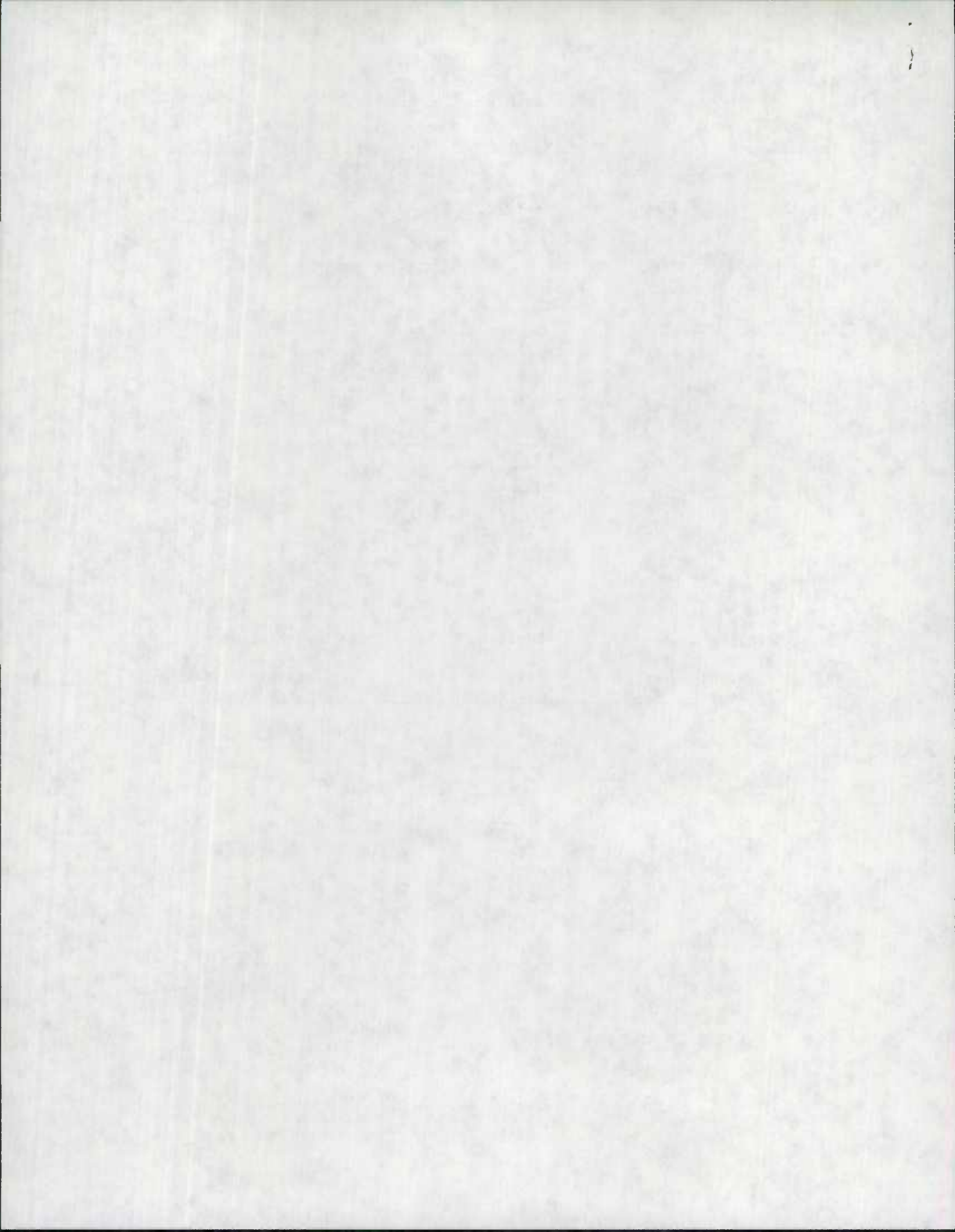












V 12/4

CURVE - GRADE DATA COLLECTION  
NON - STATE ROADS - FY - 1992

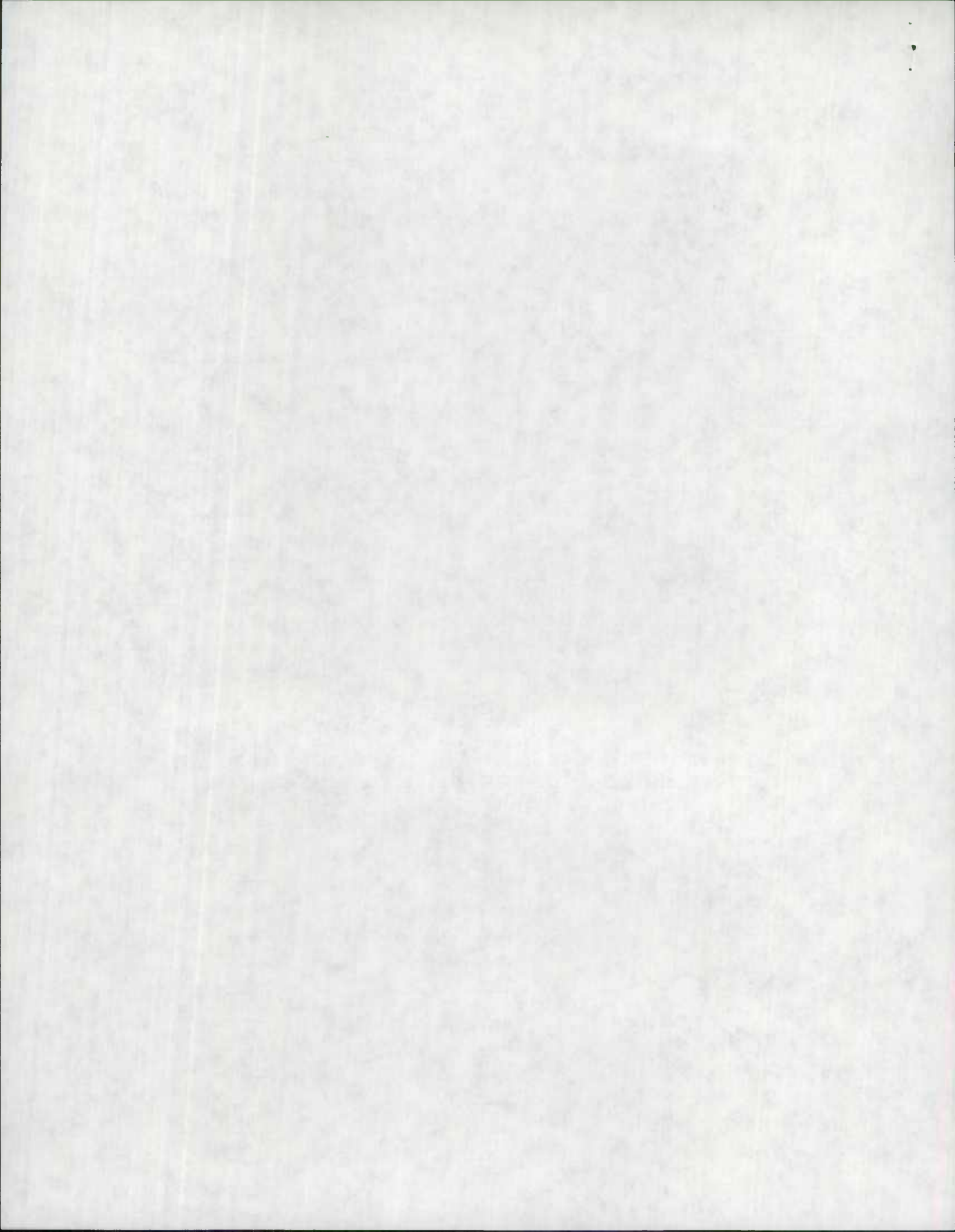
Route No: MD 850K  
Sample No: 9  
County: 10

Starting Mile Pt: .18  
Ending Mile Pt: .22  
(.04)

Horizontal Curve Section

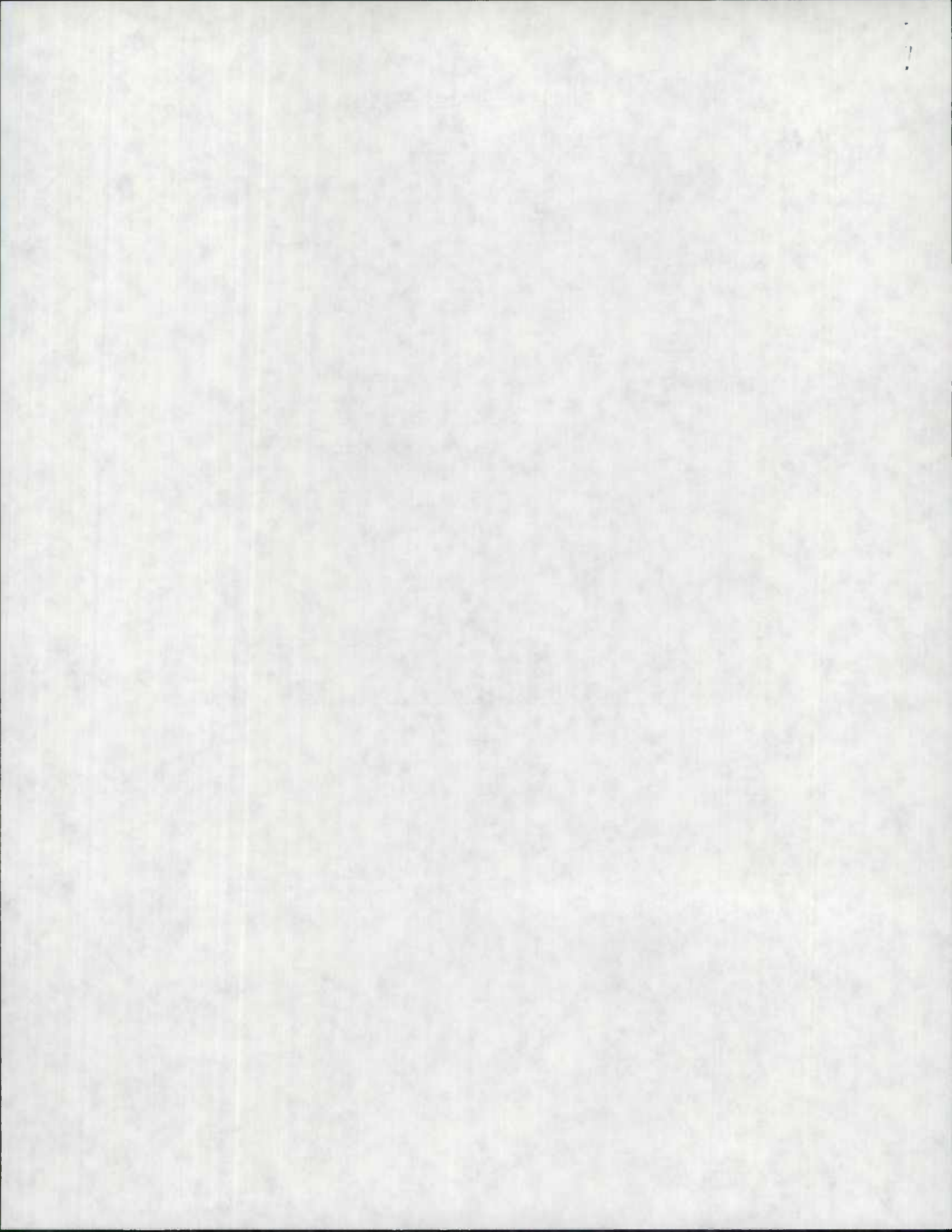
<u>Start Pt.</u> <u>(in ft.)</u>	<u>End Pt.</u> <u>(in ft.)</u>	<u>Chord</u> <u>length</u> <u>(/100ft)</u>	<u>Central</u> <u>Ord1. Length</u> <u>(/100ft)</u>	<u>Length of Total</u> <u>Curve in(x.xxmile)</u>
<u>0</u>	<u>211</u>	<u>100</u>	<u>0</u>	
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	<u>Curve</u> <u>Classes</u> <u>by</u> <u>Degree of</u> <u>Curvature</u>	<u>Number of</u> <u>Curves</u> <u>(Right-</u> <u>Justified)</u>	<u>Length</u> <u>of Curves</u> <u>in Class</u> <u>(Implied Decimal)</u> <u>(xx.xxx miles)</u>
a.	0.0-0.4	-----	-----
b.	0.5-1.4	-----	-----
c.	1.5-2.4	-----	-----
d.	2.5-3.4	-----	-----
e.	3.5-4.4	-----	-----
f.	4.5-5.4	-----	-----
g.	5.5-6.9	-----	-----
h.	7.0-8.4	-----	-----
i.	8.5-10.9	-----	-----
j.	11.0-13.9	-----	-----
k.	14.0-19.4	-----	-----
l.	19.5-27.9	-----	-----
m.	23+	-----	-----

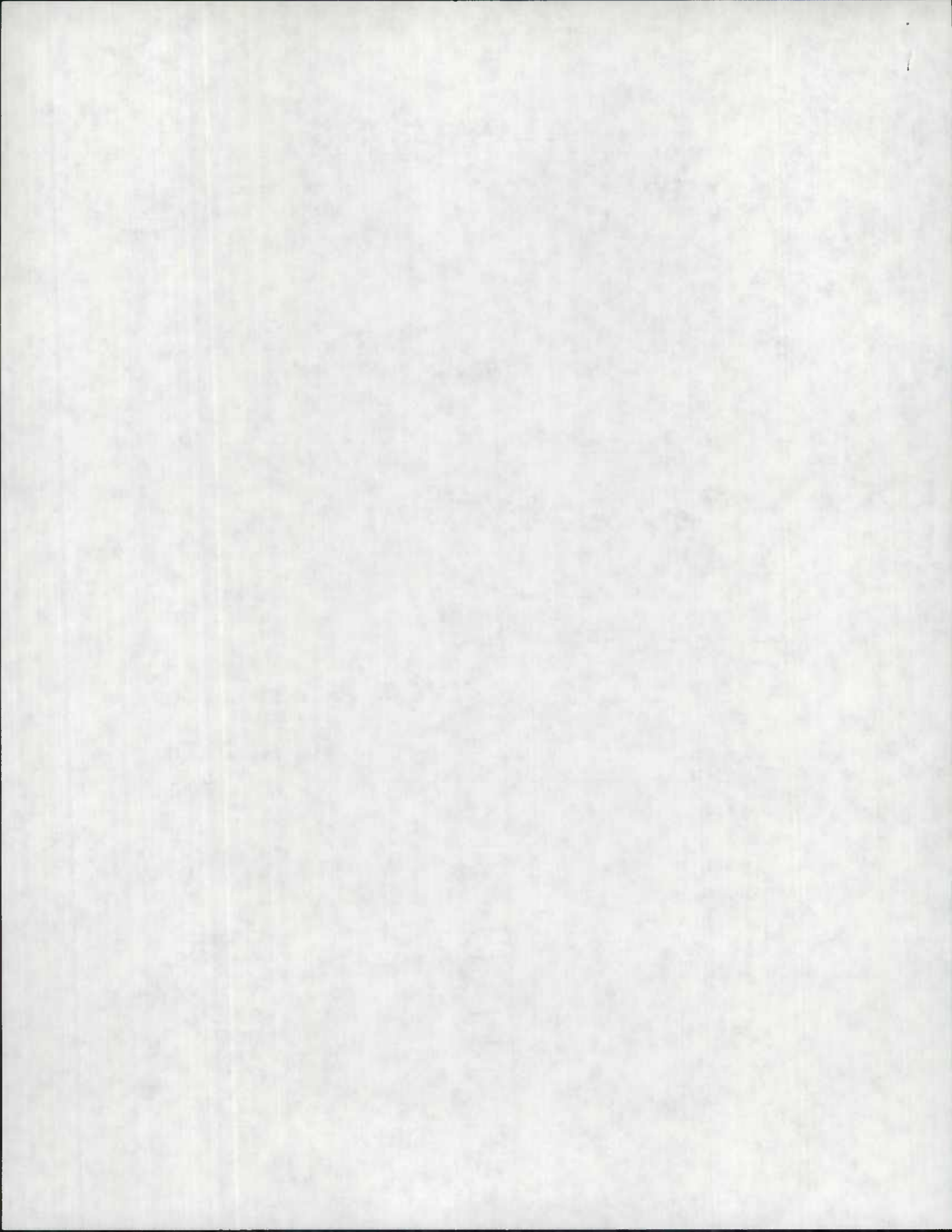












Vertical Curve Section

<u>Start Pt.</u> <u>(in ft.)</u>	<u>End Pt.</u> <u>(in ft.)</u>	<u>Gradient Percent</u>	<u>Length of Curve</u> <u>(in x.xx miles)</u>
0	158	+ 2.2 %	
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	<u>Grade</u> <u>Classes</u> <u>by</u> <u>Gradient</u> <u>(Percent)</u>	<u>Number of</u> <u>Grades</u> <u>(Right-</u> <u>Justified)</u>	<u>Length of</u> <u>Grades in Class</u> <u>(Implied Decimal)</u> <u>(xx.xxx miles)</u>
a.	0.0-0.4	-----	-----
b.	0.5-2.4	-----	-----
c.	2.5-4.4	-----	-----
d.	4.5-6.4	-----	-----
e.	6.5-8.4	-----	-----
f.	8.5-	-----	-----

