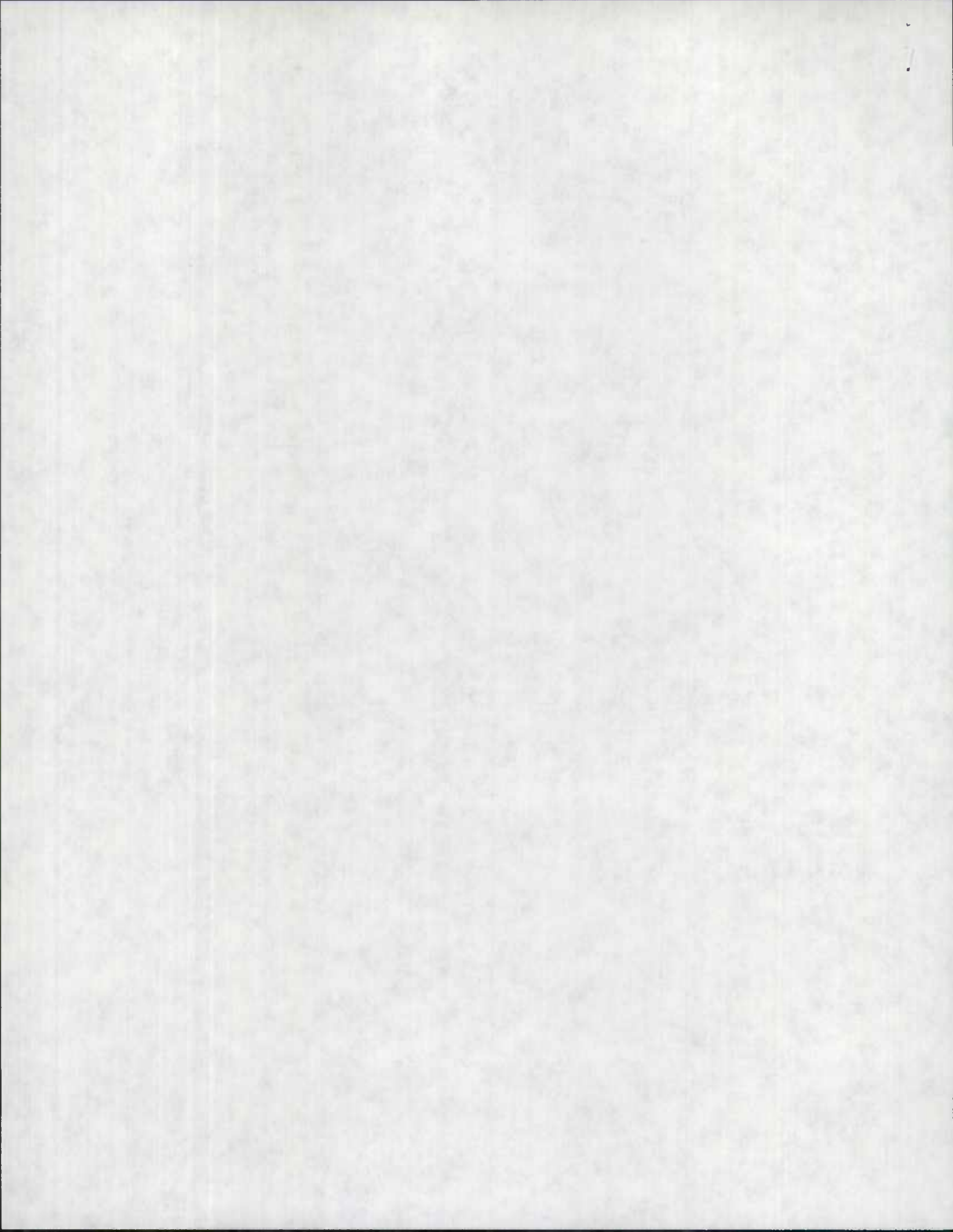


## Vertical Curve Section

<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	1371	+ 1.6%	
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----

	<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-	-----	-----



V12/01/92

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

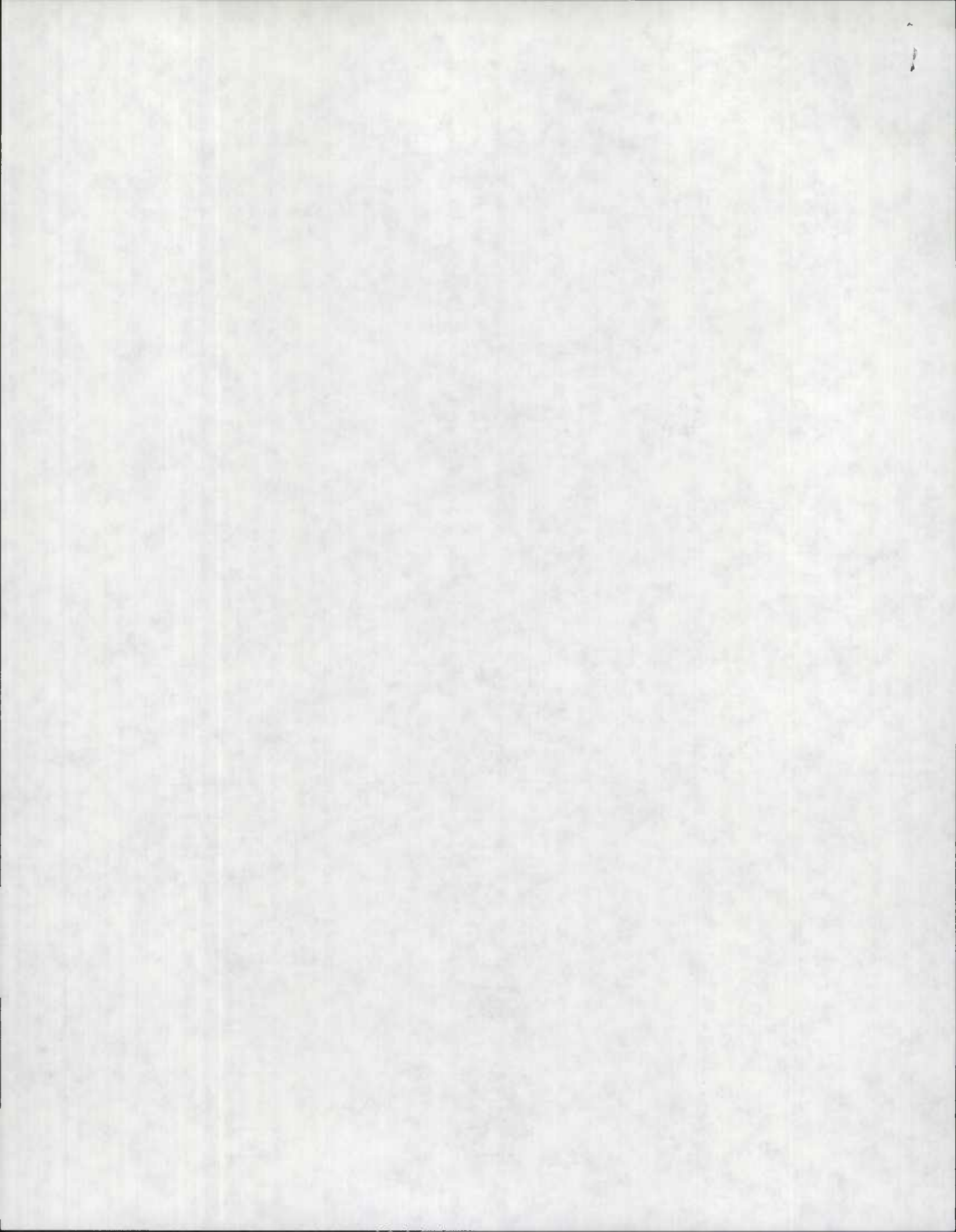
Route No: I-320  
Sample No: 4  
County: 15

Starting Mile Pt: 1.42  
Ending Mile Pt: 1.57  
(.15)

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>684</u>	<u>99.9</u>		
<u>684</u>	<u>791</u>	<u>100</u>	<u>0</u>	
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----

	<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	791	+ 1.6%	

	<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-	—	—



*V12/01/92*

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

Route No: MD 28  
Sample No: 5  
County: 15

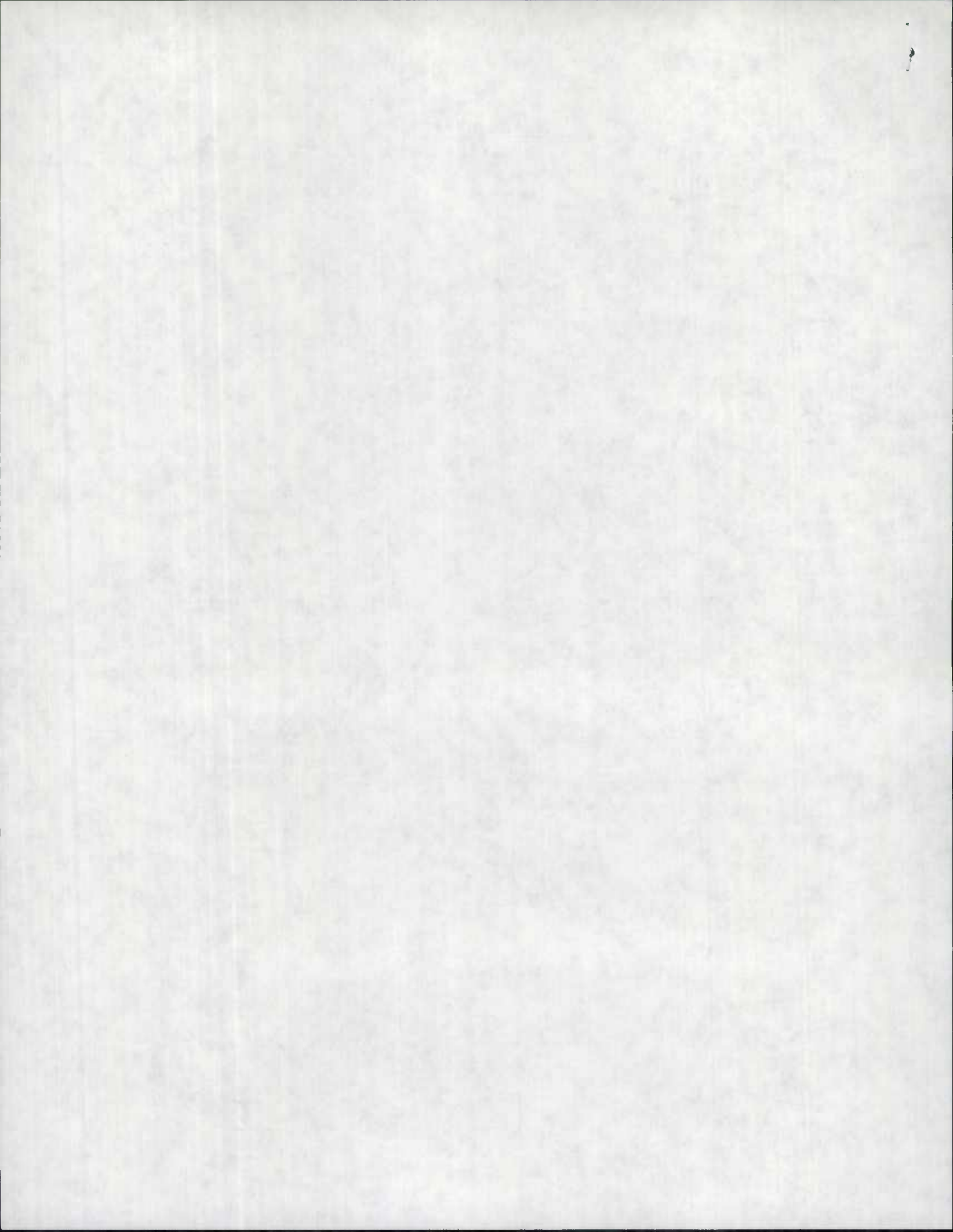
Starting Mile Pt: 15.21  
Ending Mile Pt: 15.48  
(.27)

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>281</u>	<u>99.9</u>		
<u>281</u>	<u>1423</u>	<u>100</u>	<u>0</u>	
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----

	<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	993	- 2.3%	-----
993	1423	+ 2.6%	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----

	<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-	-----	-----



✓ 12/01/92

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

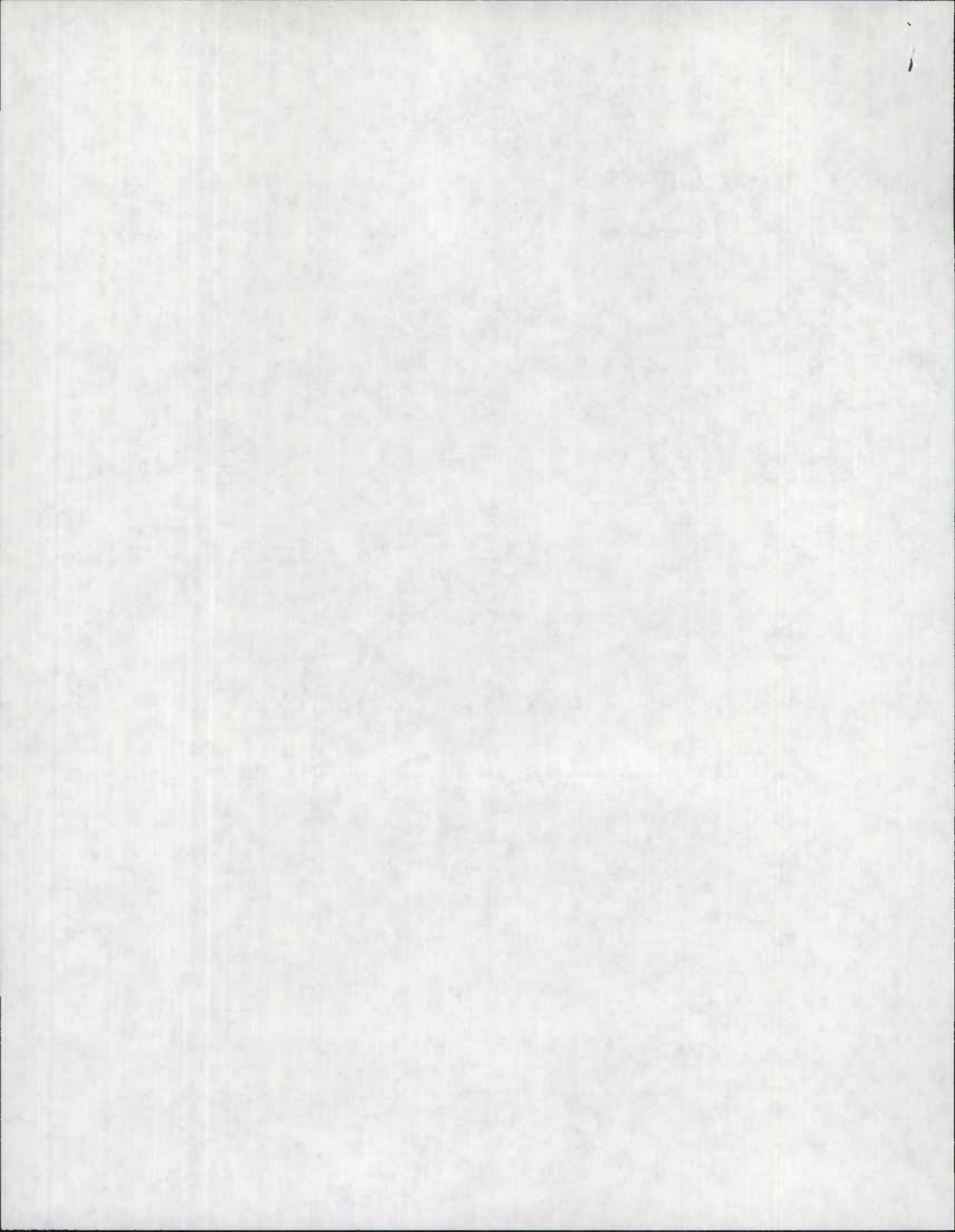
Route No: MD 410  
 Sample No: 6  
 County: 15

Starting Mile Pt: 5.63  
 Ending Mile Pt: 5.65  
 (02)

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>104</u>	<u>100</u>	<u>0</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>

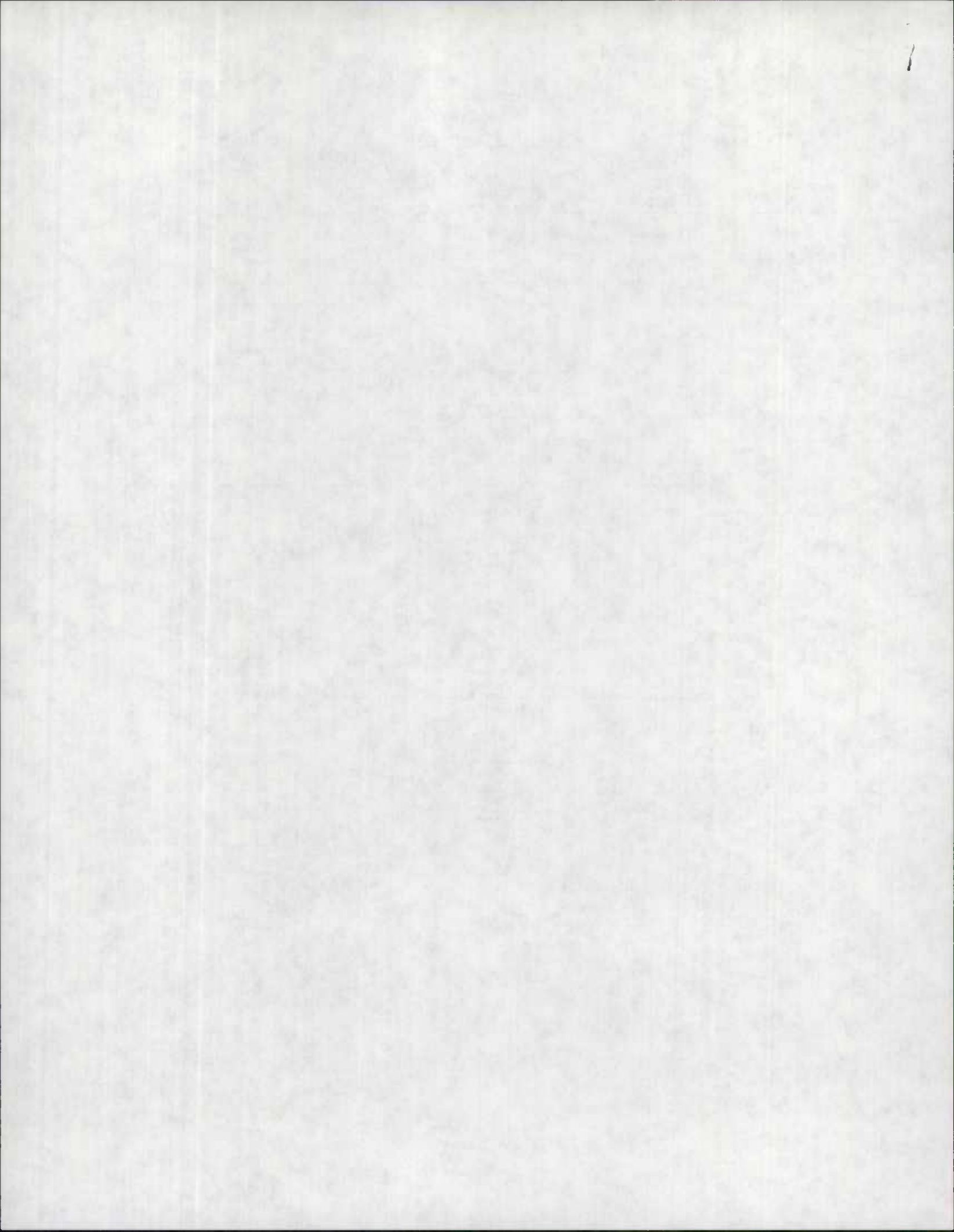
	<u>Curve</u> <u>Classes</u> <u>by</u> <u>Degree of</u> <u>Curvature</u>	<u>Number of</u> <u>Curves</u> <u>(Right-</u> <u>Justified)</u>	<u>Length</u> <u>of Curves</u> <u>in Class</u> <u>(Implied Decimal)</u> <u>(xx.xxx miles)</u>
a.	0.0-0.4	<u>-----</u>	<u>-----</u>
b.	0.5-1.4	<u>-----</u>	<u>-----</u>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



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	<del>308</del> 104	.9%	
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----

	<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-	-----	-----



12/01/92

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

Route No: MD 410  
 Sample No: 7  
 County: 15

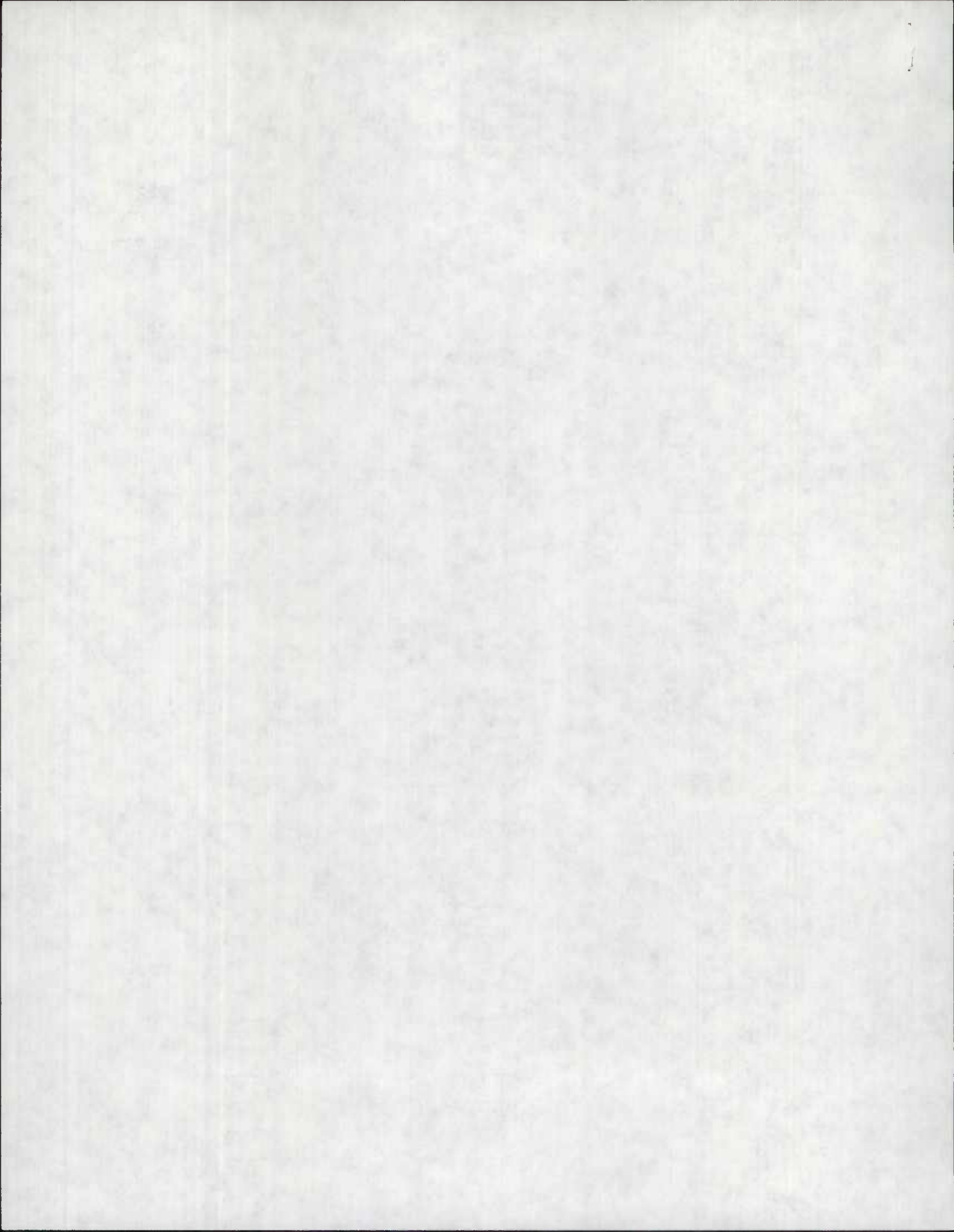
Starting Mile Pt: ~~5.83~~ 5.65  
 Ending Mile Pt: ~~5.82~~ 5.82  
 (~~0.17~~) (.17)

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>650</u>	<u>100</u>	<u>0</u>	<u>-----</u>
<u>650</u>	<u>733</u>	<u>99.1</u>	<u>-----</u>	<u>-----</u>
<u>733</u>	<u>898</u>	<u>100</u>	<u>0</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>

	<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	<u>-----</u>	<u>-----</u>
b.	0.5-1.4	<u>-----</u>	<u>-----</u>
c.	1.5-2.4	<u>-----</u>	<u>-----</u>
d.	2.5-3.4	<u>-----</u>	<u>-----</u>
e.	3.5-4.4	<u>-----</u>	<u>-----</u>
f.	4.5-5.4	<u>-----</u>	<u>-----</u>
g.	5.5-6.9	<u>-----</u>	<u>-----</u>
h.	7.0-8.4	<u>-----</u>	<u>-----</u>
i.	8.5-10.9	<u>-----</u>	<u>-----</u>
j.	11.0-13.9	<u>-----</u>	<u>-----</u>
k.	14.0-19.4	<u>-----</u>	<u>-----</u>
l.	19.5-27.9	<u>-----</u>	<u>-----</u>
m.	23+	<u>-----</u>	<u>-----</u>



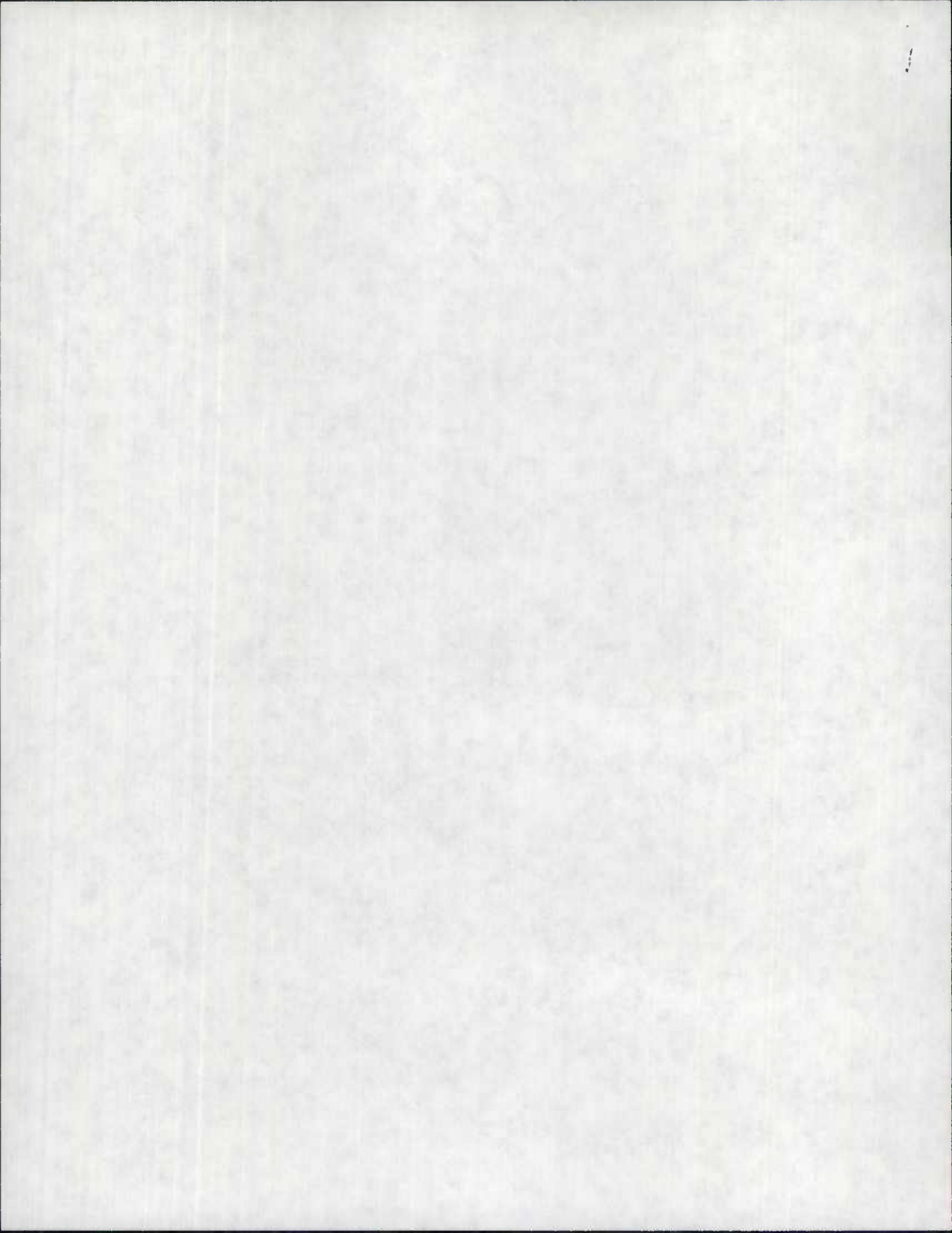


## Vertical Curve Section

<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	<del>279</del> 279	+ .9%	-----
<del>279</del> 518	518	- 1.5%	-----
518	898	- 2.9%	-----
			-----
			-----
			-----
			-----
			-----
			-----
			-----
			-----
			-----
			-----
			-----
			-----
			-----
			-----
			-----
			-----
			-----
			-----
			-----
			-----
			-----

795  
197  
—  
B

	<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-	_____	_____



①

ROAD INVENTORY SHEET

Party Chief DT  
Recorder AL  
Assistant \_\_\_\_\_  
Map No./Dir. \_\_\_\_\_ / N  
State Coordinates \_\_\_\_\_

Road No. I-270  
Road Name \_\_\_\_\_  
County Montgomery  
Date 4-10-90  
Sheet No. 21 OF 24

TRAFFIC CONTROLS: STOP SIGN=S.S.,  
TRAFFIC LIGHT=T.L.,  
FLASHING RED BALL=F.R.

TRAFFIC CODES  
PARKING RESTRICTIONS: A.M. PEAK,  
P.M. PEAK, A.M./P.M. PEAK, NO PARKING  
ANYTIME=N.P., COMM/IND. ACCESS=E

SYSTEM				TRAFFIC			LINE DIAGRAM	TRAFFIC			PAVEMENT DATA		
FED. AID.	FUNCT. CLASS.	HWY. SYS.	HWYS. SAMPLE	REG. REST.	COM/IND. ACCESS	CONTROL		COM/IND. ACCESS	REG. REST.				
			X								2-24' I 2-10' I shd out 2-4' I shd INS 50' Grs PEW-1 4ML		
			X									X	2-24' I 2-10' G shd out 2-4' G shd INS 50' Grs PEW-1 4ML
			X									X	2-24' I 2-10' G shd out 2-24' I shd INS 3' N & B 4ML
			X									X	2-24' I 2-10' G shd out 2-24' I shd INS 3' N & B 4ML
			X									X	2-24' I 2-10' G shd out 2-24' I shd INS 3' N & B 4ML
			X									X	2-24' I 2-10' G shd out 2-24' I shd INS 3' N & B 4ML
			X									X	2-24' I 2-10' G shd out 2-24' I shd INS 3' N & B 4ML
			X									X	2-24' I 2-10' G shd out 2-24' I shd INS 3' N & B 4ML
			X									X	2-24' I 2-10' G shd out 2-24' I shd INS 3' N & B 4ML
			X									X	2-24' I 2-10' G shd out 2-24' I shd INS 3' N & B 4ML

FA I 270  
INTERSTATE RURAL

002700000408

002700000512

W. Old Baltimore Rd  
Co. 231  
#15039



MARYLAND STATE HIGHWAY ADMINISTRATION

ROAD INVENTORY SHEET

Party Chief DT  
Recorder AL  
Assistant \_\_\_\_\_  
Map No./Dir. \_\_\_\_\_ / N  
State Coordinates \_\_\_\_\_

Road No. I-270  
Road Name \_\_\_\_\_  
County Montgomery  
Date 4-10-90  
Sheet No. 23 OF 24

TRAFFIC CONTROLS: STOP SIGN=SS,  
TRAFFIC LIGHT=T.L.,  
FLASHING RED BALL=F.R.

TRAFFIC CODES

PARKING RESTRICTIONS: A.M. PEAK,  
P.M. PEAK, A.M./P.M. PEAK, NO PARKING  
ANYTIME=N.P., COMM/IND. ACCESS=E

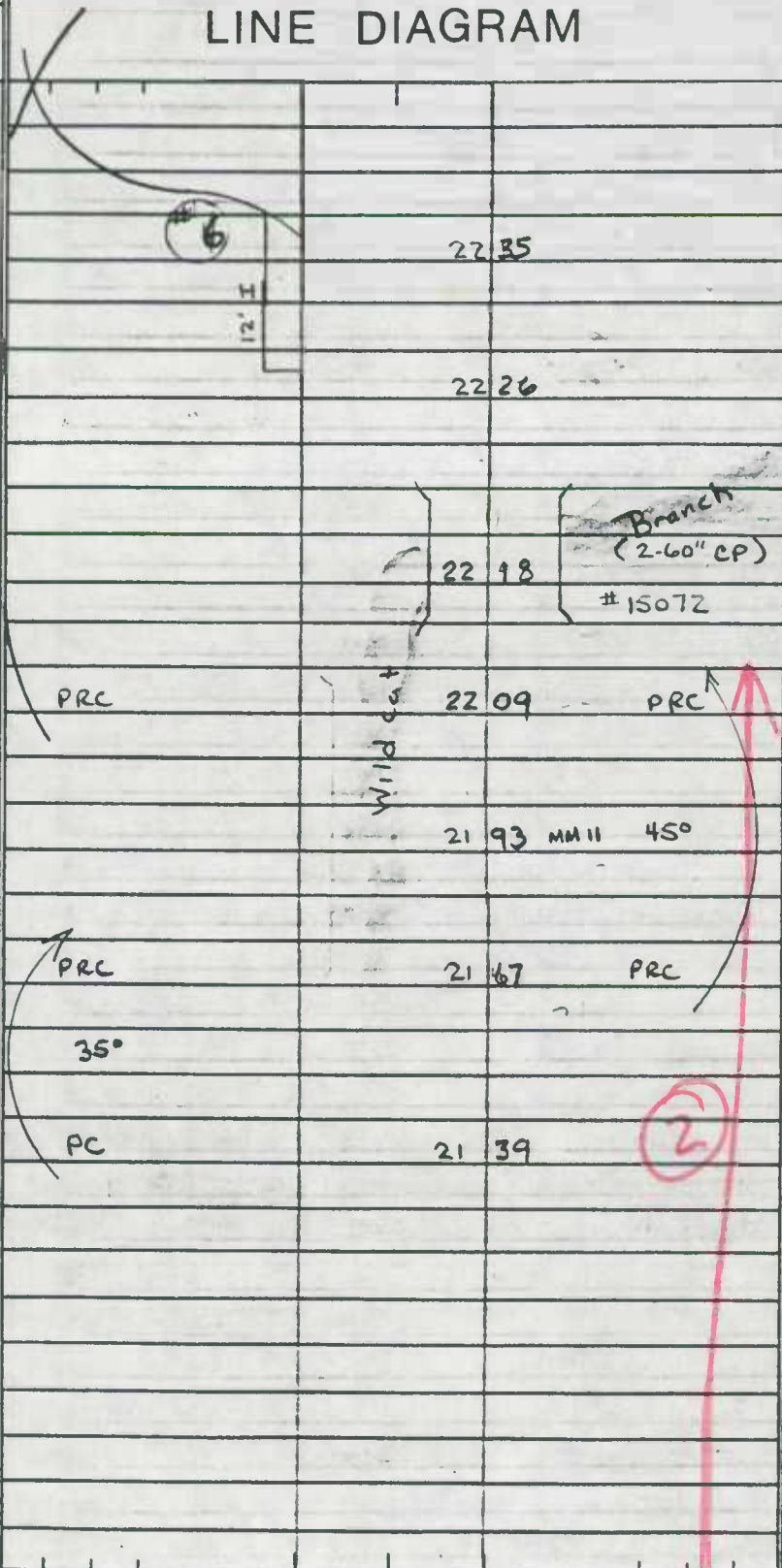
SYSTEM				TRAFFIC				TRAFFIC				PAVEMENT DATA
FED. AID.	FUNCT. CLASS.	HWY. SYS.	HPMS SAMPLE	PRG. REST.	COM/IND.	ACCESS	CONTROL	COM/IND.	ACCESS	PRG. REST.		
<b>LINE DIAGRAM</b>												

2-24' I  
2-10' I shd out  
2-4' I shd INS  
50' Grs PKwy  
4ML

2-24' I  
2-10' I shd out  
2-4' I shd INS  
300' +/- NB. Mcd  
4ML

FAI 270  
INTERSTATE RURAL

002700002044





ROAD INVENTORY SHEET

(3) (4)

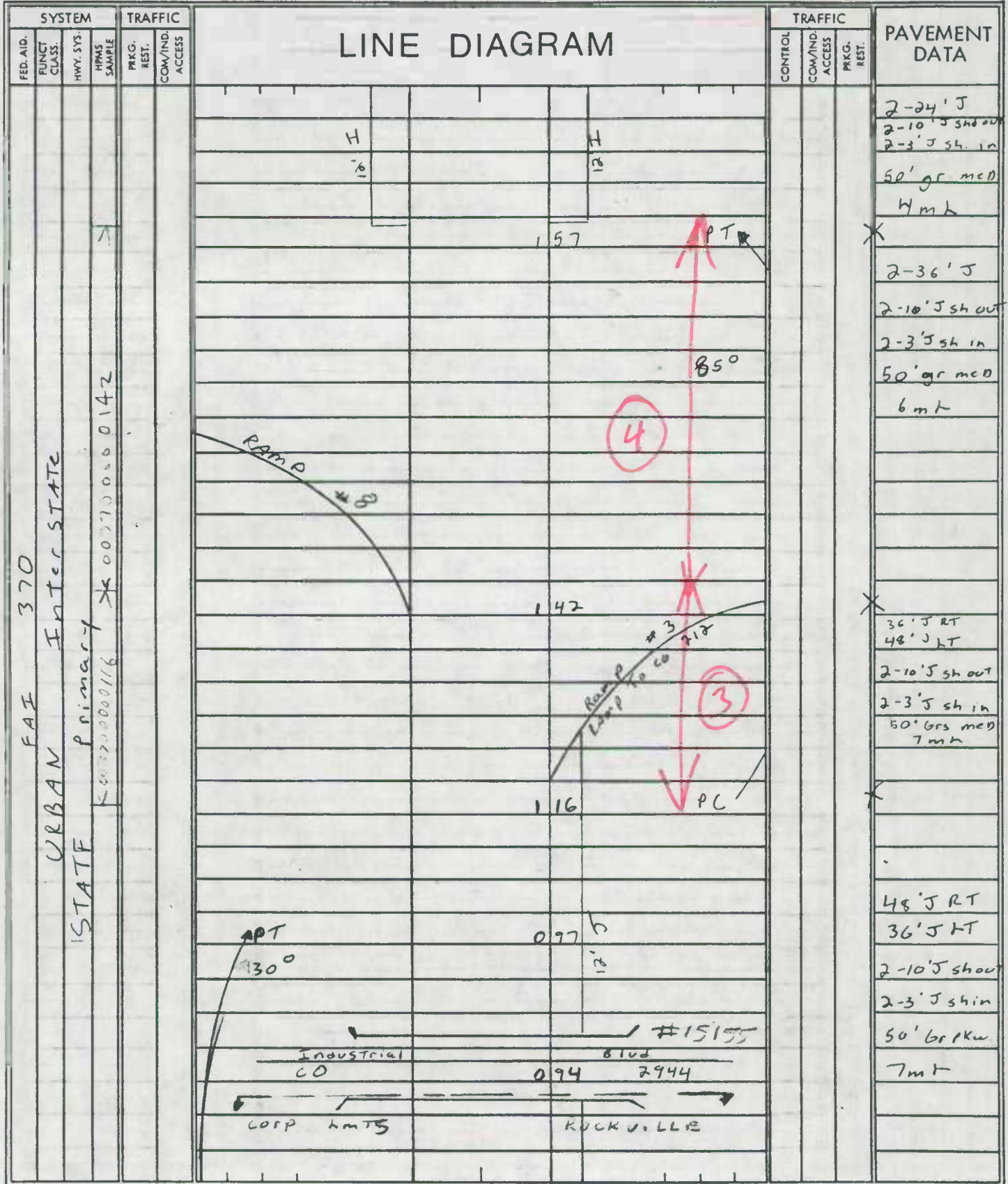
Party Chief GG  
Recorder AL  
Assistant \_\_\_\_\_  
Map No./Dir. E10 B / E  
State Coordinates \_\_\_\_\_

Road No. I 370  
Road Name \_\_\_\_\_  
County montgomery  
Date 2-24-90  
Sheet No. 3 OF 6

TRAFFIC CONTROLS: STOP SIGN=SS,  
TRAFFIC LIGHT=T.L.,  
FLASHING RED BALL=F.R.

TRAFFIC CODES

PARKING RESTRICTIONS: A.M. PEAK,  
P.M. PEAK, A.M./P.M. PEAK, NO PARKING  
ANYTIME=N.P., COMM/IND. ACCESS=E



FAI 370  
 URBAN Inter STATE  
 Primary  
 K60320000116 \* 003700000142















State.

CURVE - GRADE DATA COLLECTION

UPDATE FORM - 1993

Route No: Co 144

Starting Mile Pt: 1.55

Sample No: 91

Ending Mile Pt: 1.66

County: 15 Mon

.11

Horizontal Curve Section

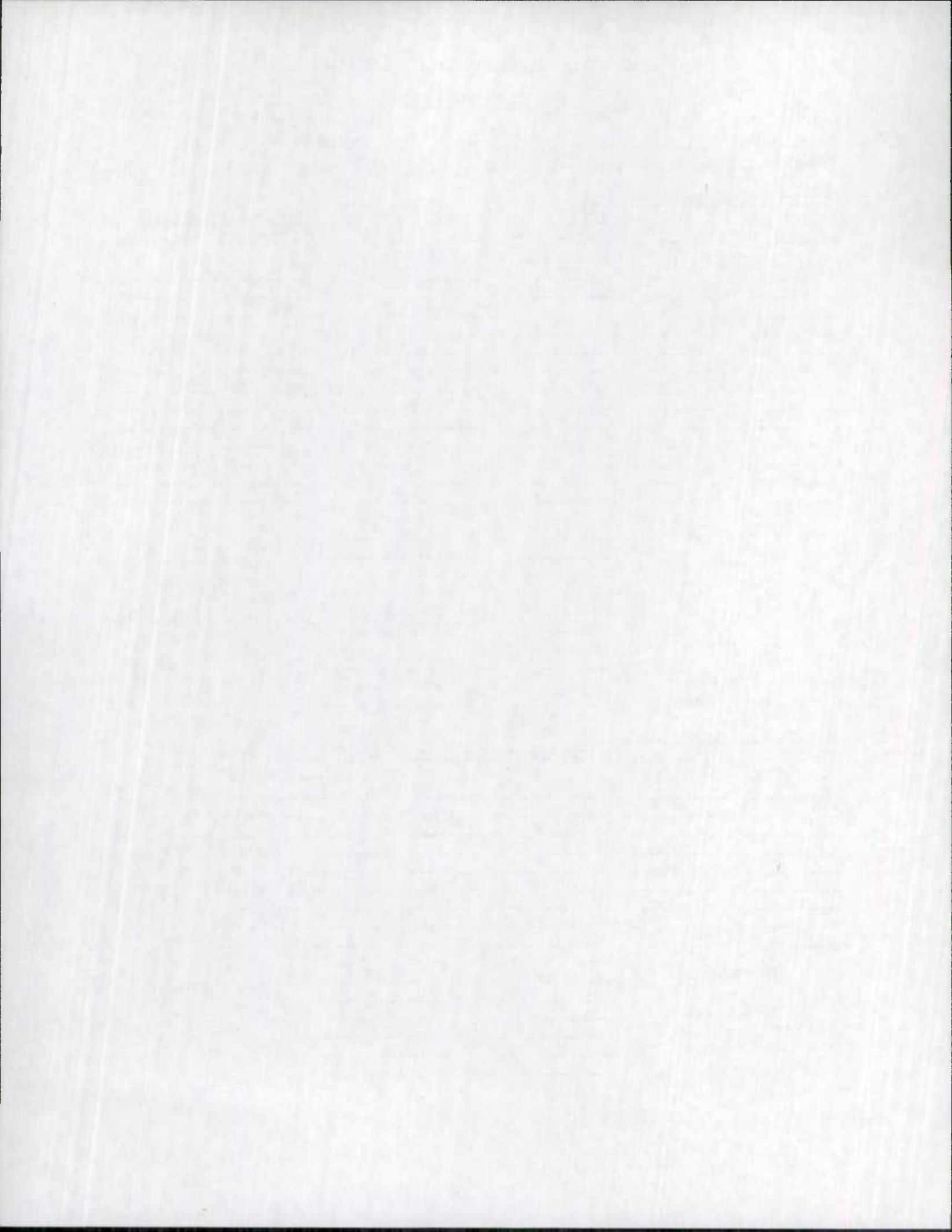
<u>Start Pt.</u> <u>(in ft.)</u>	<u>End Pt.</u> <u>(in ft.)</u>	<u>Chord</u> <u>length</u> <u>(/100ft)</u>	<u>Central</u> <u>Ordi. Length</u> <u>(/100ft)</u>	<u>Length of Total</u> <u>Curve in(x.xxmile)</u>
<u>0</u>	<u>580</u>	<u>100</u>	<u>0</u>	

- A. 0.0 - 0.4 1 .11
- 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

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>
<u>0</u>	<u>673</u>	<u>-7.3</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 1 .11
- F. 8.5 -



**CURVE - GRADE DATA COLLECTION**

State

**UPDATE FORM - 1993**

Route No: 6 144

Starting Mile Pt: 1.39

Sample No: 90

Ending Mile Pt: 1.55

County: 15 Mo

**Horizontal Curve Section**

.16

Start Pt. (in ft.)	End Pt. (in ft.)	Chord length (/100ft)	Central Ordi. Length (/100ft)	Length of Total Curve in(x.xxmile)
<u>0</u>	<u>810</u>	<u>100</u>	<u>0</u>	

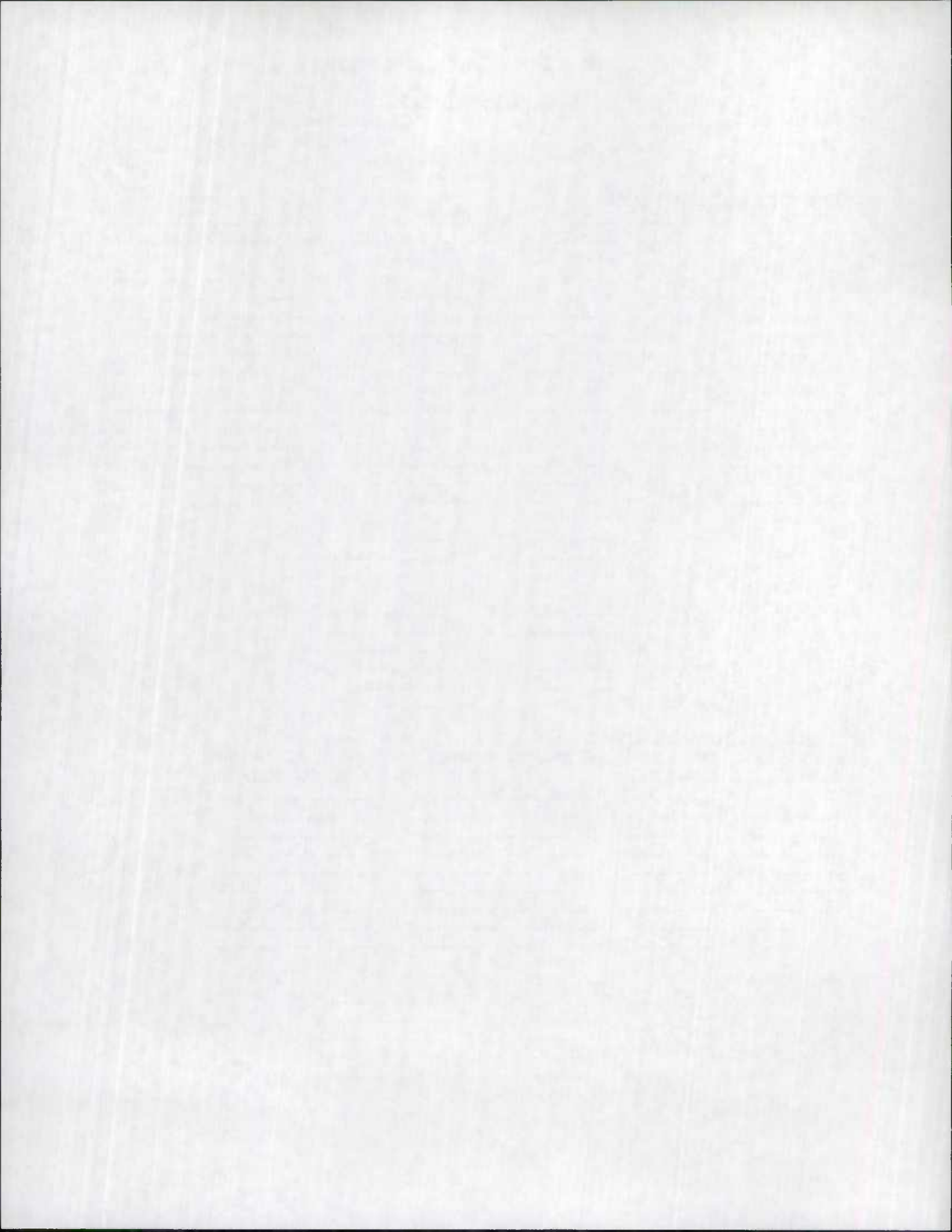
- A. 0.0 - 0.4 1 .16
- B. 0.5 - 1.4
- C. 1.5 - 2.4
- D. 2.5 - 3.4
- E. 3.5 - 4.4
- F. 4.5 - 5.4
- G. 5.5 - 6.9
- H. 7.0 - 8.4
- I. 8.5 - 10.9
- J. 11.0 - 13.9

**Vertical Curve Section**

Start Pt. (in ft.)	End Pt. (in ft.)	Gradient Percent	Length of Curve (in x.xx miles)
<u>0</u>	<u>346</u>	<u>0 %</u>	
<u>346</u>	<u>810</u>	<u>7.2 %</u>	

- A. 0.0 - 0.4 1 .07
- B. 0.5 - 2.4
- C. 2.5 - 4.4
- D. 4.5 - 6.4
- E. 6.5 - 8.4 1 .09
- F. 8.5 -



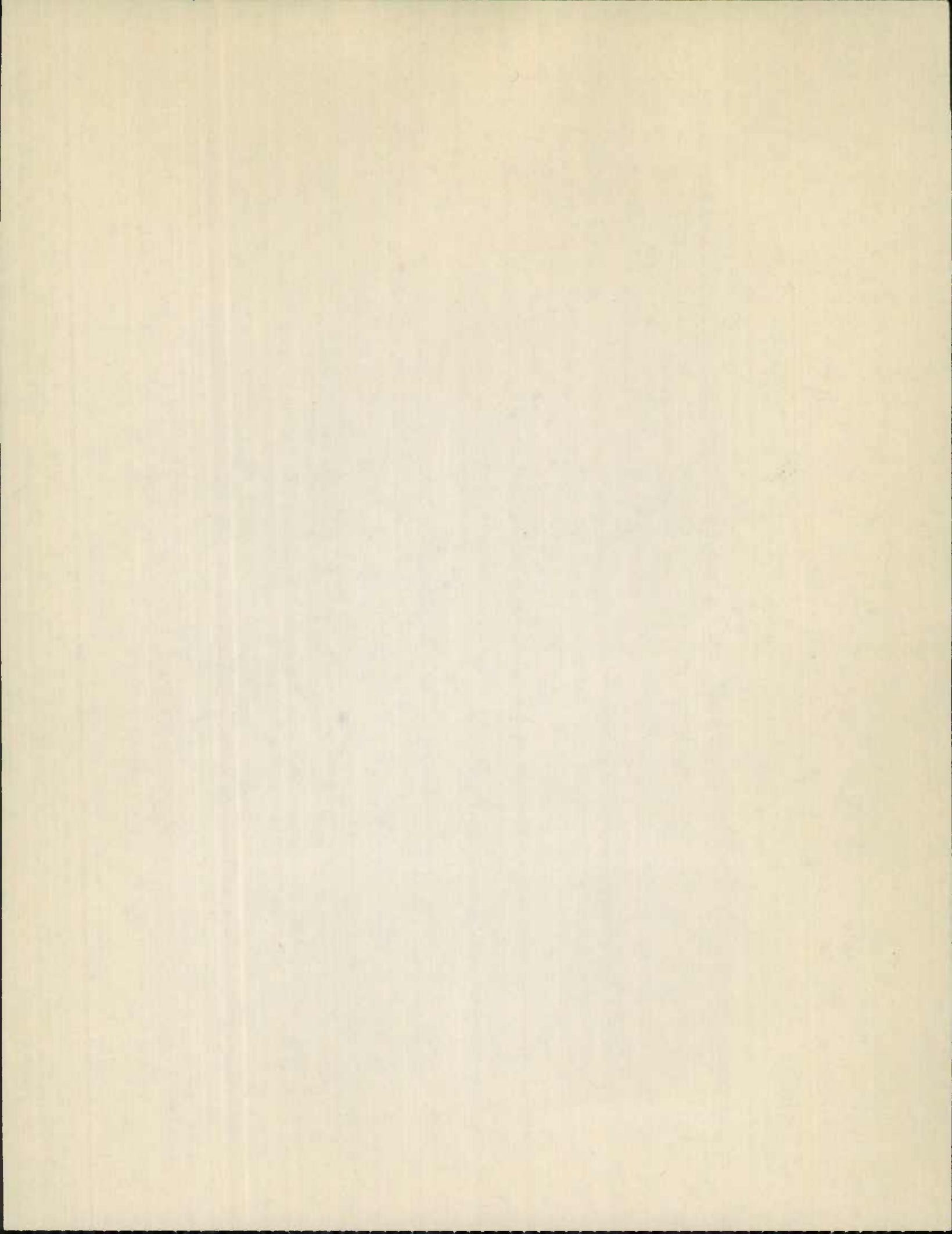


MONT GOMERY CO

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

PAGE 11

CD	ROUTE	BEGIN	SECT	LENTH	END	MAP	COORD
1	15 IS 270	18.64	01.80	20.44		D 10	- - - - -
2	15 IS 270	20.44	01.65	22.09		D 10	- - - - -
3	15 IS 370	01.16	00.26	01.42		E 10	- - - - -
4	15 IS 370	01.42	00.15	01.57		E 10	- - - - -
5	15 MD 28	15.21	00.27	15.48		E 10	- - - - -
6	15 MD 410	05.63	00.02	05.65		F 11	- - - - -
7	15 MD 410	05.65	00.17	05.82		F 11	- - - - -



✓ 12/10/92

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

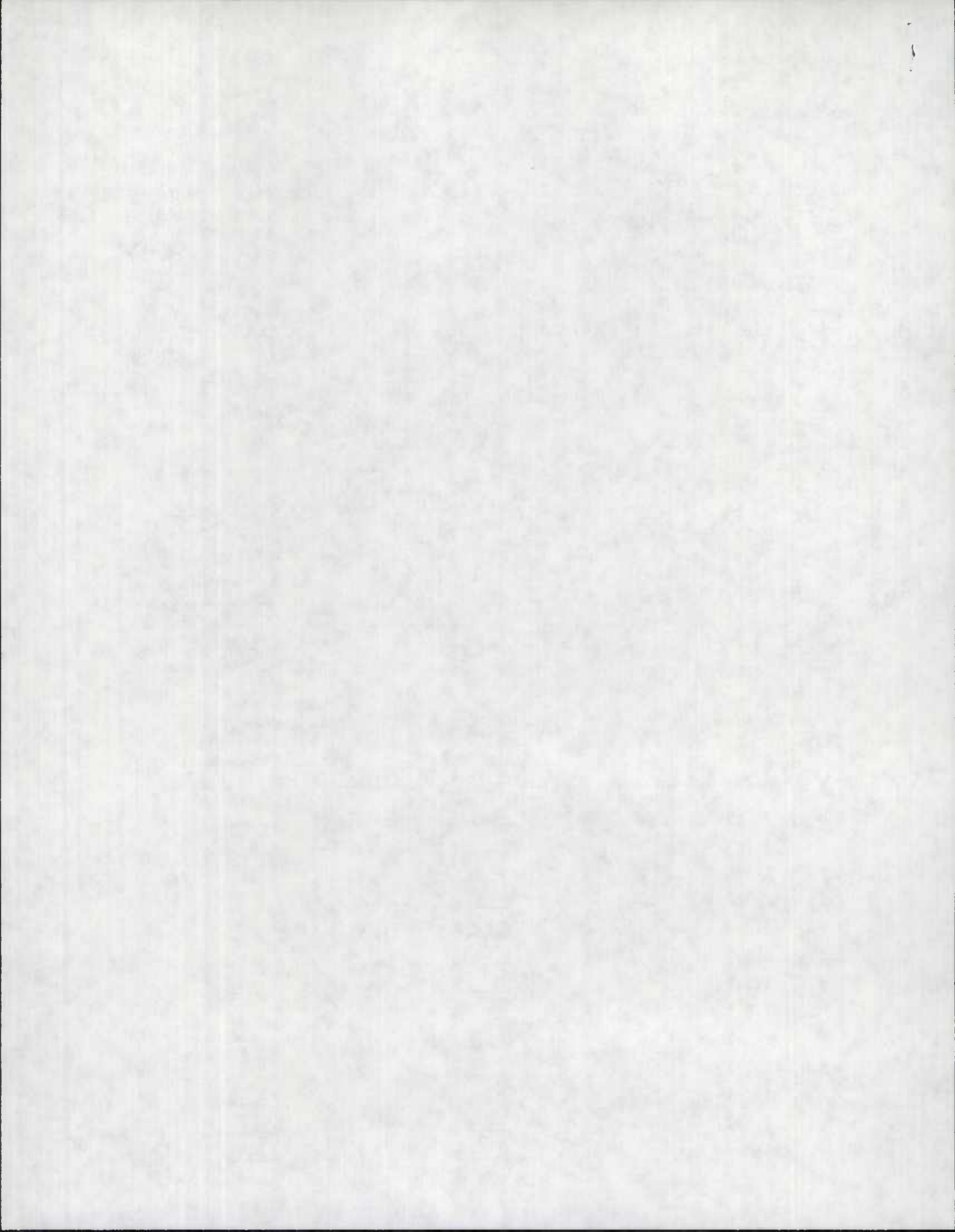
Route No: I-270  
 Sample No: 1  
 County: 15

Starting Mile Pt: 18.64  
 Ending Mile Pt: 20.44  
 (1.80)

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>9503</u>	<u>100</u>	<u>.</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>

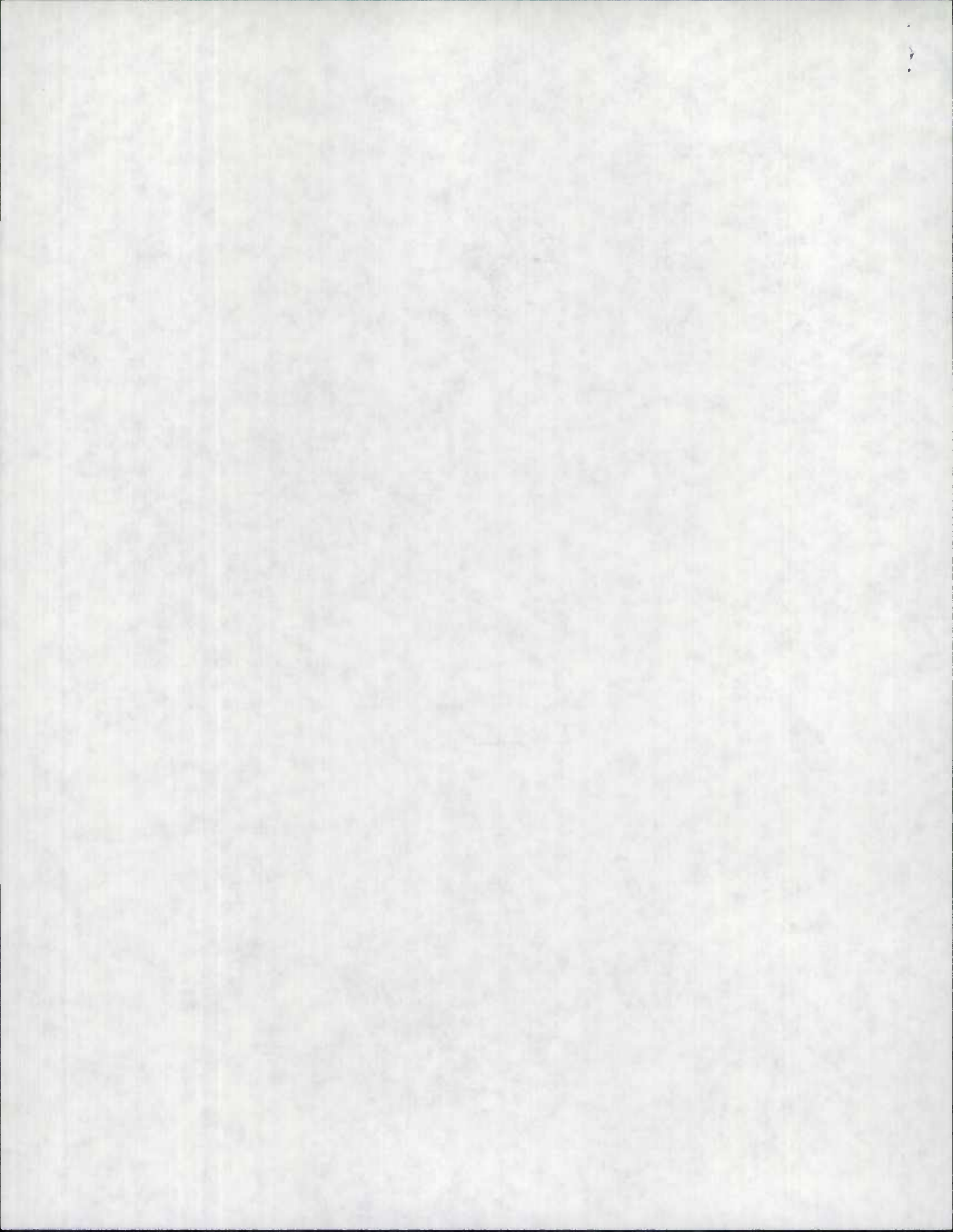
	<u>Curve</u> <u>Classes</u> <u>by</u> <u>Degree of</u> <u>Curvature</u>	<u>Number of</u> <u>Curves</u> <u>(Right-</u> <u>Justified)</u>	<u>Length</u> <u>of Curves</u> <u>in Class</u> <u>(Implied Decimal)</u> <u>(xx.xxx miles)</u>
a.	0.0-0.4	<u>-----</u>	<u>-----</u>
b.	0.5-1.4	<u>-----</u>	<u>-----</u>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



### 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	2627	- 2.4%	-----
2627	4688	+ 3.2%	-----
4688	6046	- 3.6%	-----
6046	6750	+ 1.9%	-----
6750	8939	- 3.8%	-----
8939	9503	+ 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-	-----	-----



12/01/92

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

Route No: I-270  
 Sample No: 2  
 County: 15

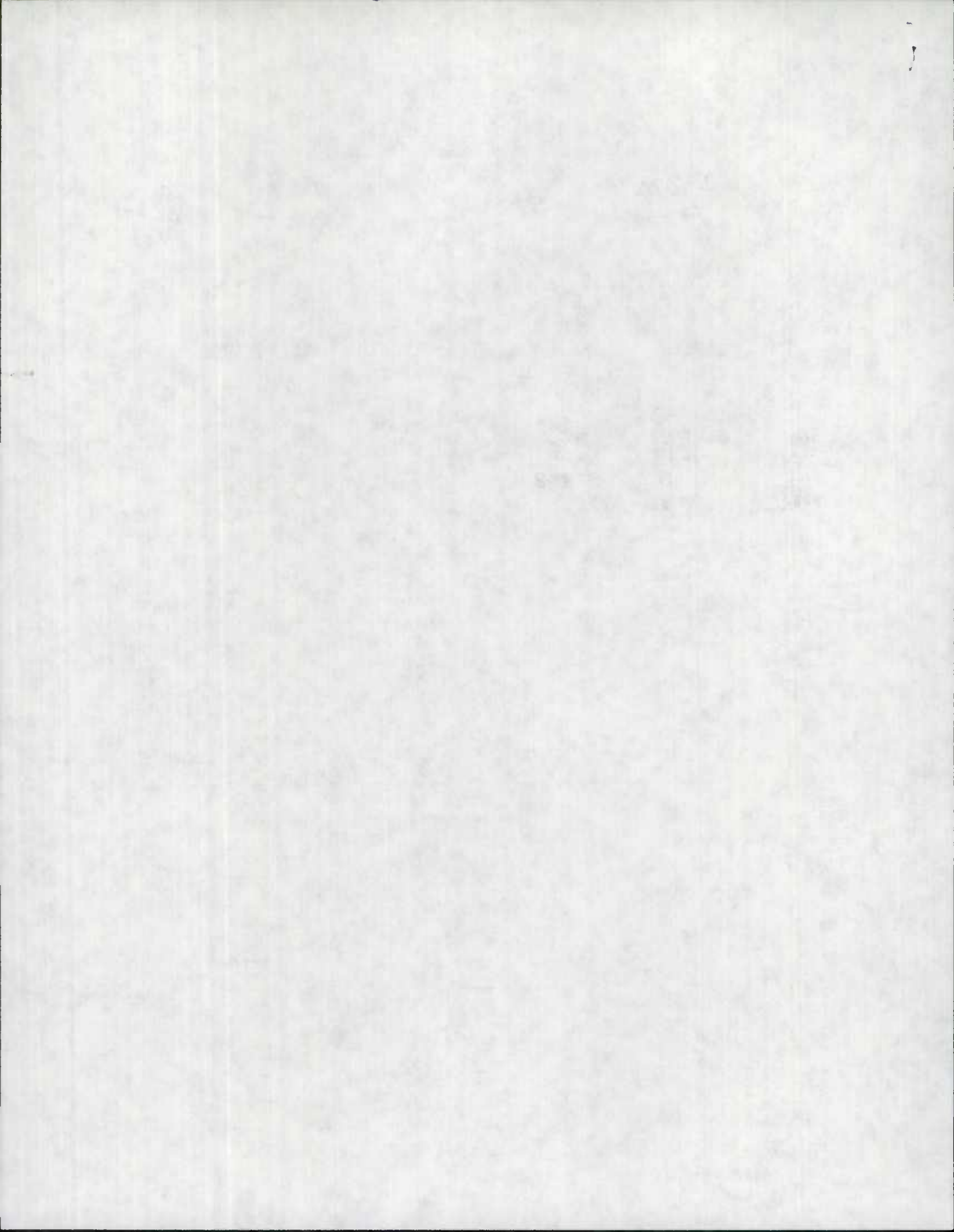
Starting Mile Pt: 20.44  
 Ending Mile Pt: 22.09  
(1.65)

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>5180</u>	<u>100</u>	<u>0</u>	<u>-----</u>
<u>5180</u>	<u>6020</u>	<u>99.9</u>	<u>-----</u>	<u>-----</u>
<u>6020</u>	<u>6660</u>	<u>100</u>	<u>5</u>	<u>-----</u>
<u>6660</u>	<u>8380</u>	<u>99.85</u>	<u>-----</u>	<u>-----</u>
<u>8380</u>	<u>8710</u>	<u>100</u>	<u>0</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>

	<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	<u>-----</u>	<u>-----</u>
b.	0.5-1.4	<u>-----</u>	<u>-----</u>
c.	1.5-2.4	<u>-----</u>	<u>-----</u>
d.	2.5-3.4	<u>-----</u>	<u>-----</u>
e.	3.5-4.4	<u>-----</u>	<u>-----</u>
f.	4.5-5.4	<u>-----</u>	<u>-----</u>
g.	5.5-6.9	<u>-----</u>	<u>-----</u>
h.	7.0-8.4	<u>-----</u>	<u>-----</u>
i.	8.5-10.9	<u>-----</u>	<u>-----</u>
j.	11.0-13.9	<u>-----</u>	<u>-----</u>
k.	14.0-19.4	<u>-----</u>	<u>-----</u>
l.	19.5-27.9	<u>-----</u>	<u>-----</u>
m.	23+	<u>-----</u>	<u>-----</u>

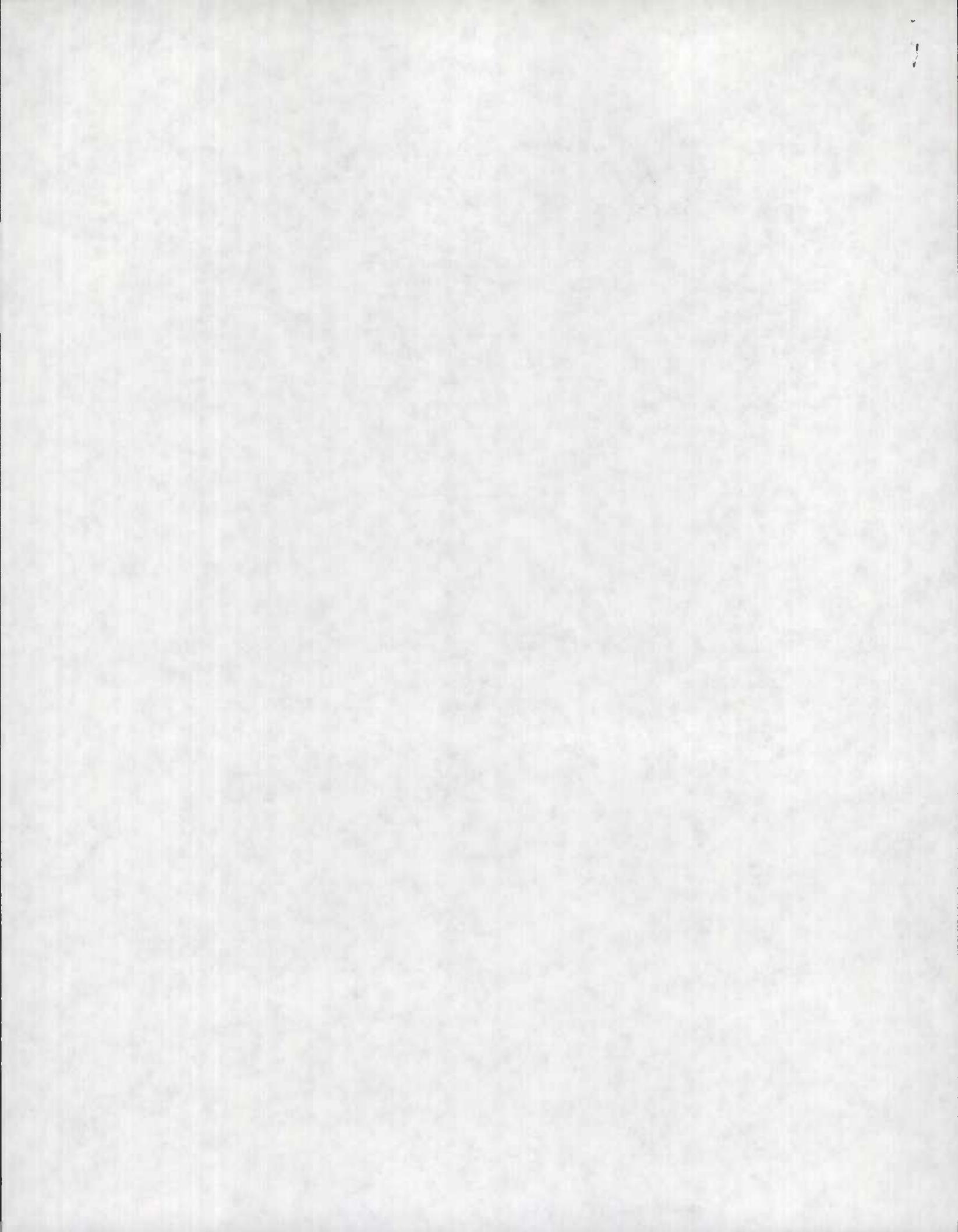




Vertical Curve Section

<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	8710	- 2.3%	
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----

	<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-	_____	_____



1/21/92

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

Route No: I-370  
 Sample No: 3  
 County: 15

Starting Mile Pt: 1.16  
 Ending Mile Pt: 1.42  
(0.26)

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>Ordi. Length</u> <u>(/100ft)</u>	<u>Length of Total</u> <u>Curve in(x.xxmile)</u>
<u>0</u>	<u>1371</u>	<u>99.9</u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>

	<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	<u>                    </u>	<u>                    </u>
b.	0.5-1.4	<u>                    </u>	<u>                    </u>
c.	1.5-2.4	<u>                    </u>	<u>                    </u>
d.	2.5-3.4	<u>                    </u>	<u>                    </u>
e.	3.5-4.4	<u>                    </u>	<u>                    </u>
f.	4.5-5.4	<u>                    </u>	<u>                    </u>
g.	5.5-6.9	<u>                    </u>	<u>                    </u>
h.	7.0-8.4	<u>                    </u>	<u>                    </u>
i.	8.5-10.9	<u>                    </u>	<u>                    </u>
j.	11.0-13.9	<u>                    </u>	<u>                    </u>
k.	14.0-19.4	<u>                    </u>	<u>                    </u>
l.	19.5-27.9	<u>                    </u>	<u>                    </u>
m.	23+	<u>                    </u>	<u>                    </u>