

DATE : 05/13/92

HPMS SAMPLE SECTIONS  
HIGHWAY INFORMATION SERVICES DIVISION

Cecil

CO	ROUTE	BEGIN	SECT LENGTH	END	MAP	COORD
1	07 CO 0076	03.15	00.89	04.04	A-15	1093-662
2	07 CO 0145	00.00	01.03	01.03	A-16 1138-682	
3	07 CO 0145	01.03	01.02	02.05		
<i>Brewster Bridge Road</i>						
4	07 CO 0184	00.00	00.60	00.60	A-16 1127-669	
5	07 CO 0184	00.60	00.13	00.73		
6	07 CO 0184	00.73	00.10	00.83		
7	07 CO 0184	00.83	00.19	01.02		
8	07 CO 0184	01.02	00.32	01.34		
9	07 CO 0187	00.00	00.46	00.46	A-15,16 1123,5-653	
10	07 CO 0187	00.46	00.29	00.75		
11	07 CO 0410	02.00	00.75	02.75	A-15	1109-671

100

DATE	DESCRIPTION	AMOUNT	BALANCE
10/1/50	...	...	...
10/2/50	...	...	...
10/3/50	...	...	...
10/4/50	...	...	...
10/5/50	...	...	...
10/6/50	...	...	...
10/7/50	...	...	...
10/8/50	...	...	...
10/9/50	...	...	...
10/10/50	...	...	...
10/11/50	...	...	...
10/12/50	...	...	...
10/13/50	...	...	...
10/14/50	...	...	...
10/15/50	...	...	...
10/16/50	...	...	...
10/17/50	...	...	...
10/18/50	...	...	...
10/19/50	...	...	...
10/20/50	...	...	...
10/21/50	...	...	...
10/22/50	...	...	...
10/23/50	...	...	...
10/24/50	...	...	...
10/25/50	...	...	...
10/26/50	...	...	...
10/27/50	...	...	...
10/28/50	...	...	...
10/29/50	...	...	...
10/30/50	...	...	...
10/31/50	...	...	...

DATE : 05/13/92

HPMS SAMPLE SECTIONS  
HIGHWAY INFORMATION SERVICES DIVISION

	CD	ROUTE	BEGIN	SECT LENGTH	END	MAP	COORD
✓12	07	MU 0052 052 <i>BLUEBALL RD</i>	00.00	00.06	00.06	A16	1128-648
✓13	07	MU 0300 052 <i>HIGH ST</i>	00.64	00.24	00.88	A16	1130-648
✓14	07	MU 0360 052	00.00	00.17	00.17	B16	1128-647
✓15	07	MU 0360 052 <i>LOCUST LA</i>	00.17	00.33	00.50	B16	1128-647
✓16	07	MU 0370 052	00.44	00.06	00.50	A-16	1131-651
✓17	07	MU 0370 052	00.50	00.03	00.53	"	"
✓18	07	MU 0575 052	00.00	00.31	00.31	B16	1134-647

052 - ELKTON

PHYSICS DEPARTMENT

PHYSICS 311

LECTURE 1

1.1

1.2

1.3

1.4

1.5

1.6

1.7

1.8

1.9

1.10

1.11

1.12

1.13

1.14

1.15

1.16

1.17

1.18

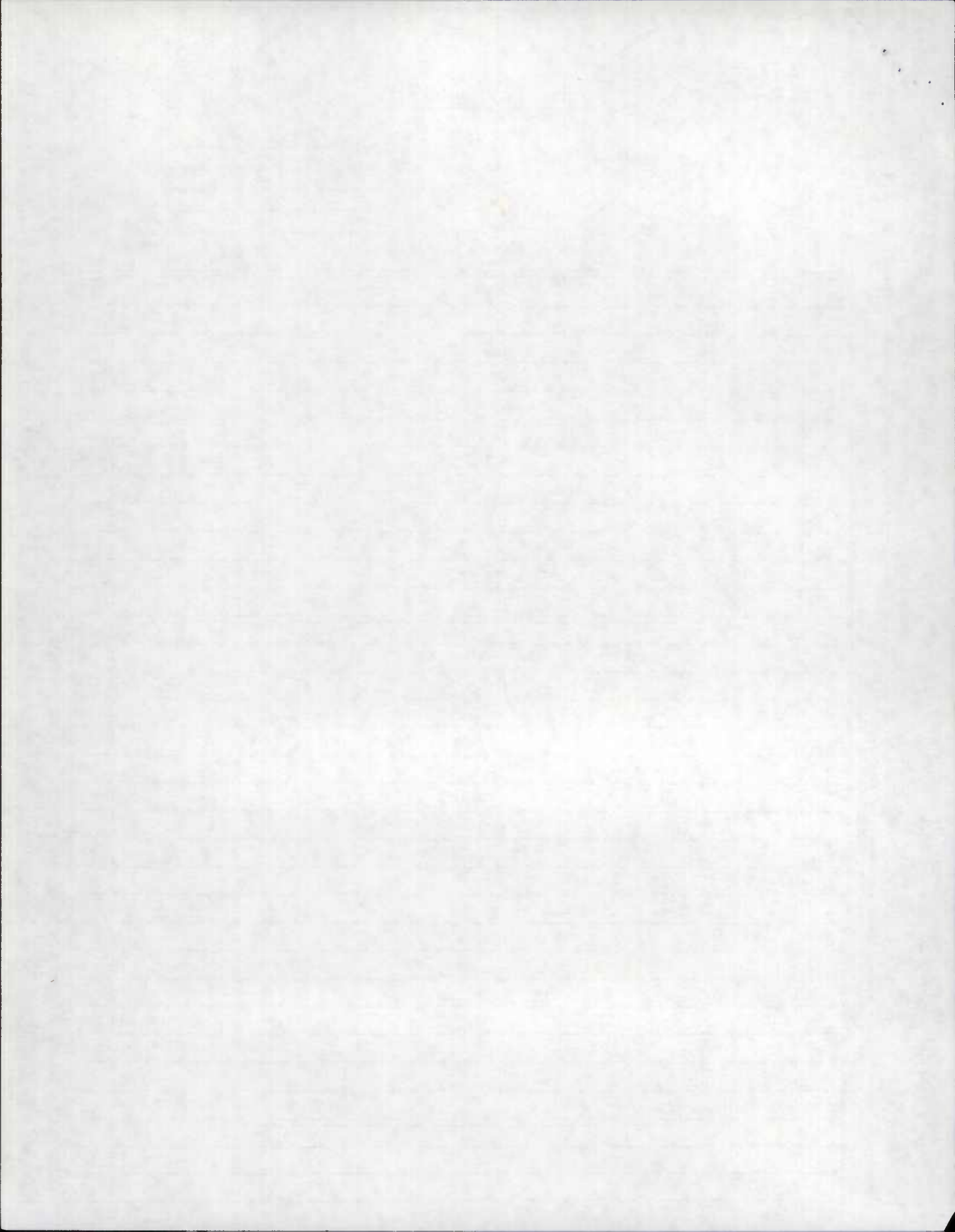
1.19

1.20

ROAD INVENTORY SHEET

Road No. Co 76  
 Road Name THEODORE RD.  
 Sheet No. 3 of 4  
 Date 4-11-77  
 County CECIL  
 State Coordinates \_\_\_\_\_

	F	459		
		408	F	
		404	15	SEE BR SH 1A
APMS ↑ ↓		398	JAMIES Rd H	
		372	Co 832	
		333	F	
		329		20' AI
	RED		Rd	30' CW
	Co	315	79	
		313	F	
	H	293	H	
		290	H	
		278	F	
H	275			
	272	H		
	262	DR		
	260	F		
EBENEZER		CHURCH	Rd	
Co	247	92		
	231	H		SAME



ROAD INVENTORY SHEET

Party Chief F SFTIAN  
 Recorder FCR:EST  
 Chairman \_\_\_\_\_

VER  
4-12-77

Road No. CO. 145  
 Name LITTLE EGYPT RD.  
 Sheet No. 10F2  
 Date 6-26-64  
 County CECIL

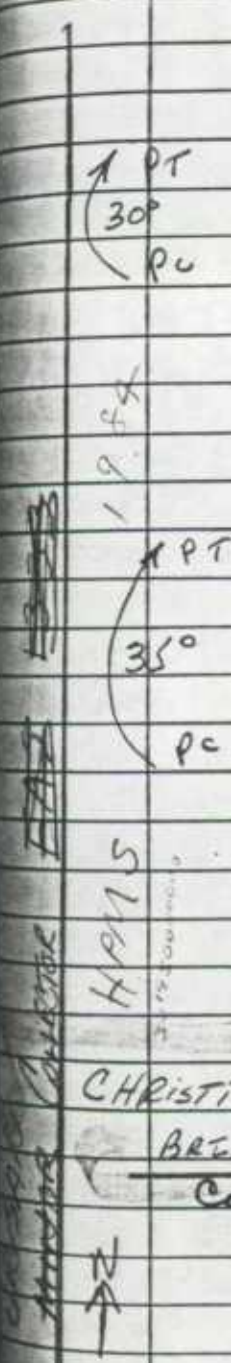
68-35  
68-30

77-191+20 1138-682

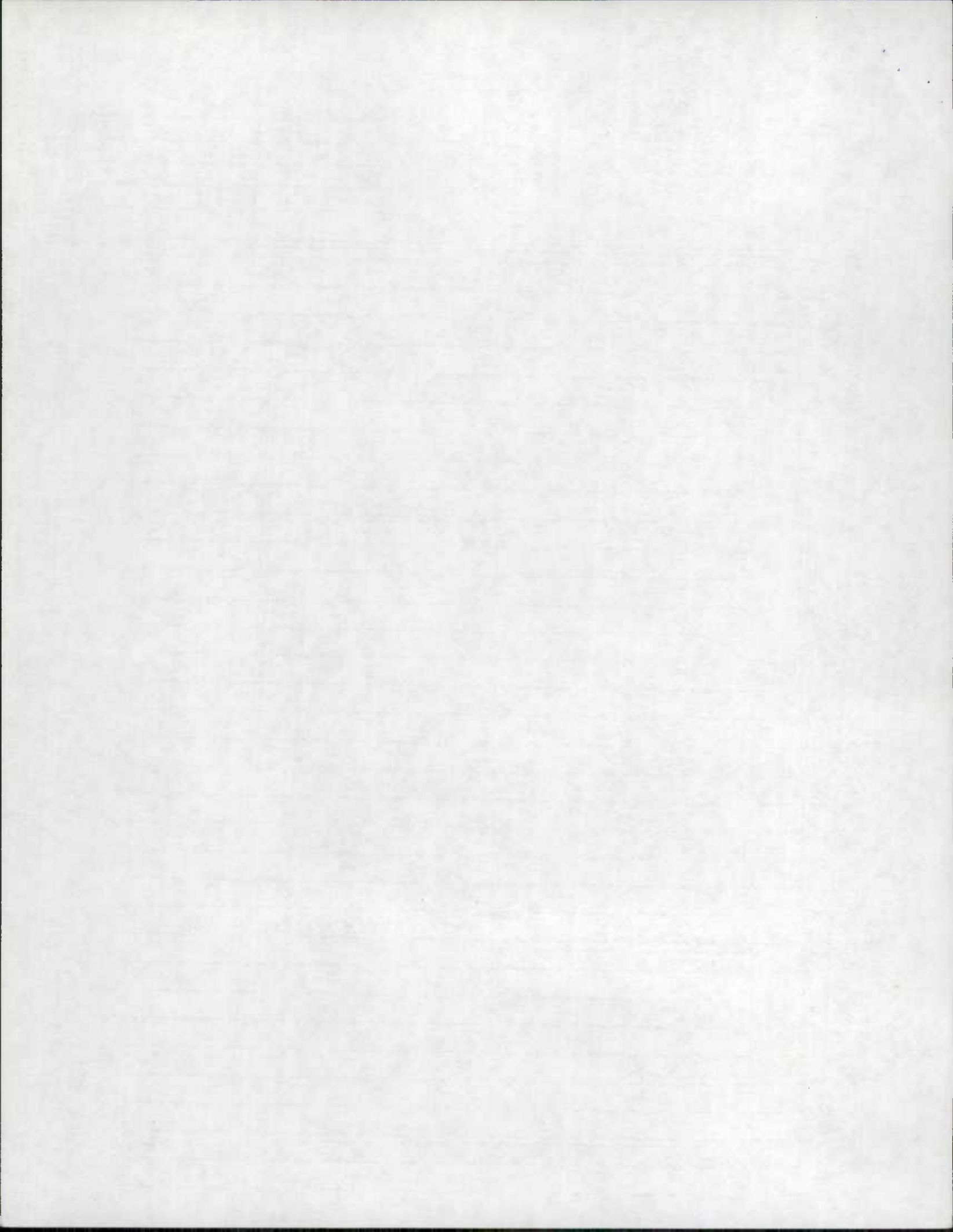
\*REVISED 12-4-73 GLEN FARMS

89-18 AT

		080	DR.
1 PT		078	H
30°		075	
PC		071	
	F	066	SMITH H RD. CECIL DR Co. 153
19.84		059	
1 PT		058	DR.
35°		056	
PC		054	RIDGE CREST H RD
	H	049	Co. 152 #12 *
		041	H
		034	EX WXD 18-28-B WCE 026 RIVER
CHRISTINA		028	SEE BR. SH 1-A
BRENTON WAY		019	
Co 361 68-40		015	H
	H	007	
	H	004	
		000	273



77-19  
20' I  
16' G  
30' ew





ROAD INVENTORY SHEET

County Chief STIAN FORREST  
 Recorder C.  
 Chairman

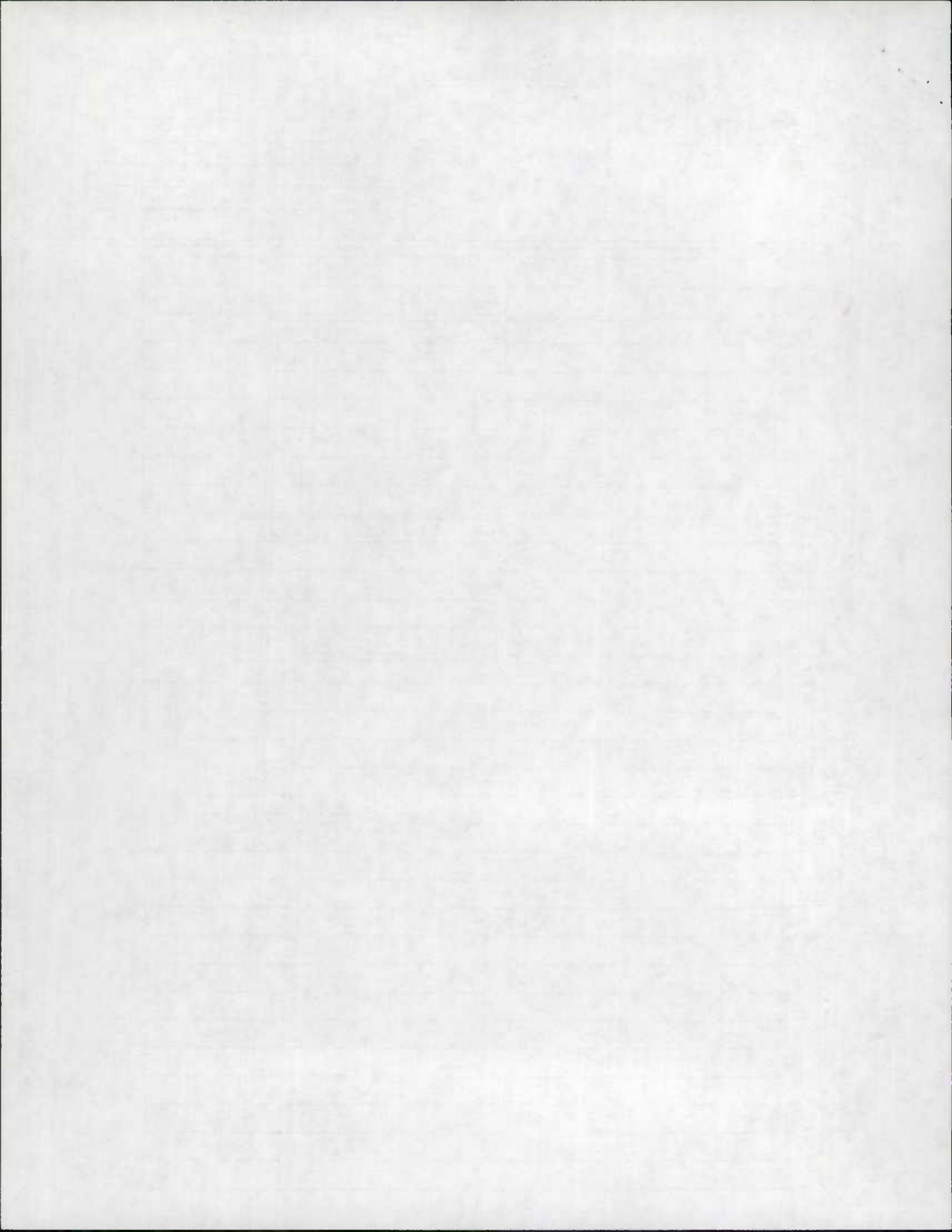
Road No. Co. 145  
 Name \_\_\_\_\_  
 Sheet No. 2 of 2  
 Date 2-26-64  
 County CECIL

68-35 Bridger  
 68-36

		MD	205	896	
Collector	H.P.M.S.		194	H	
			186	CE 0-5	
				BR. 34 1-B	
				SHARELESS DR	
		H	178	75-14 Co. 487	
		H	174	H	
			170	BLACK OAK F DR	
			162	75-15 Co. 483	
		F	160	H	
			156	H	
	153	H			
	F	144	CIRCLE EAST ROSSMONT	H	
	UNION SCHOOL RD	BOB STREET RD	34	Co 363	68-46 WESTOVER
	Co. 154	113			
	X	H	103		X
			099	H	
		H	095		
			092	H	
			088	H	
			084	H	

18 G  
 26 C-W

SAME



SHA 51.3-8  
11-15-72

ROAD INVENTORY SHEET

88-14  
CG/HZ  
12-22-88

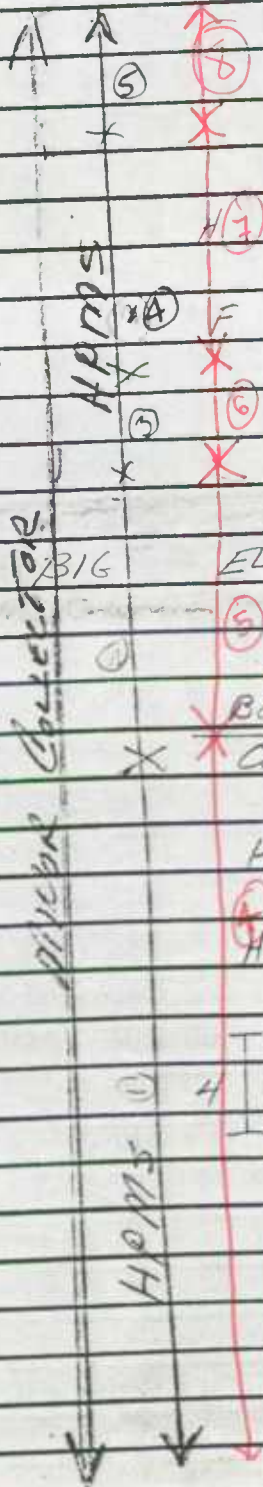
Party Chief F. SETTAN  
Recorder C. FORREST  
Helper \_\_\_\_\_

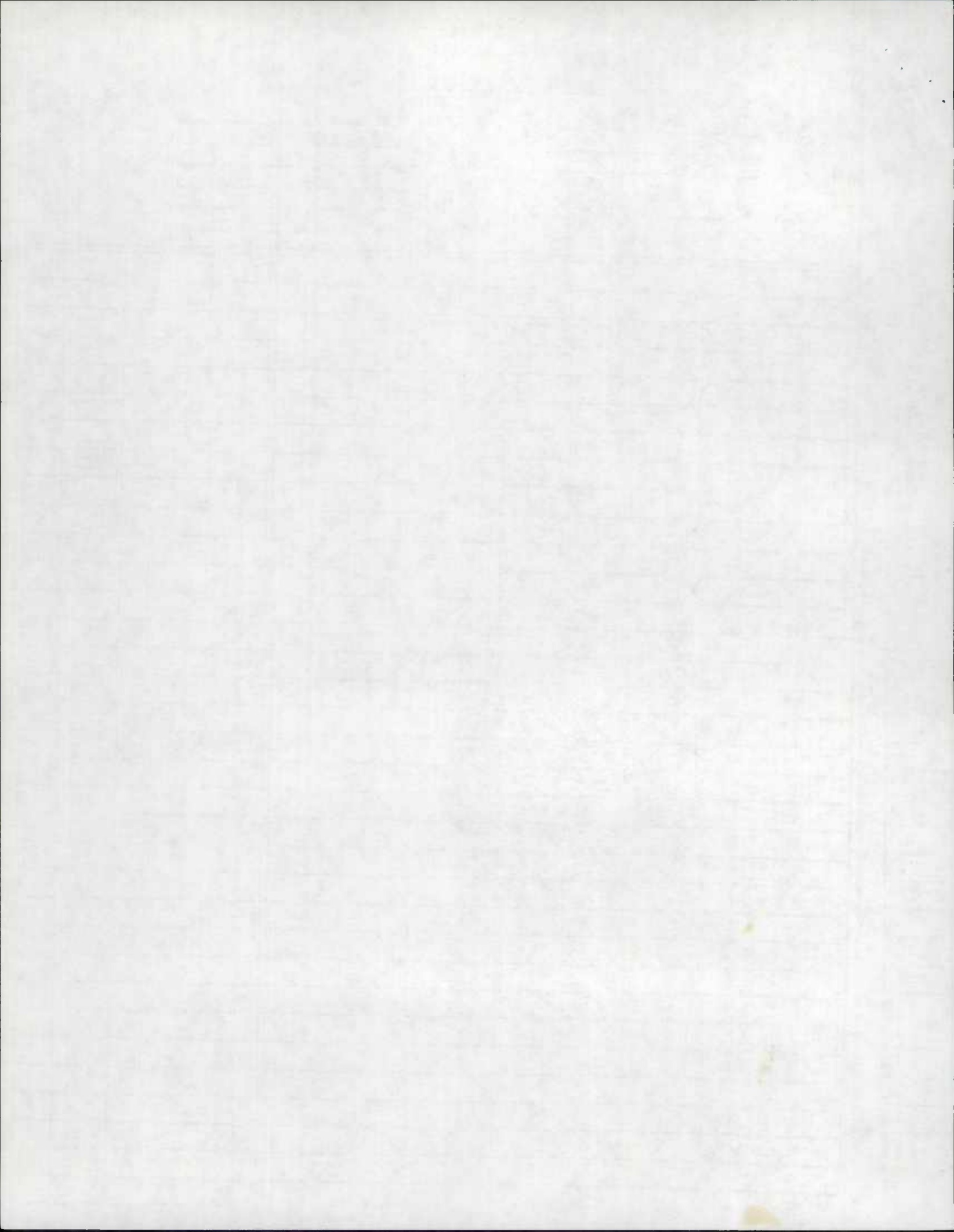
Road No. Co. 184  
Road Name BREWSTER BRIDGE RD  
Sheet No. 1 OF 1  
Date 7-9-64  
County CECIL  
State Coordinates 1127-669

Map No. +1-30-75  
W.D+M.Z

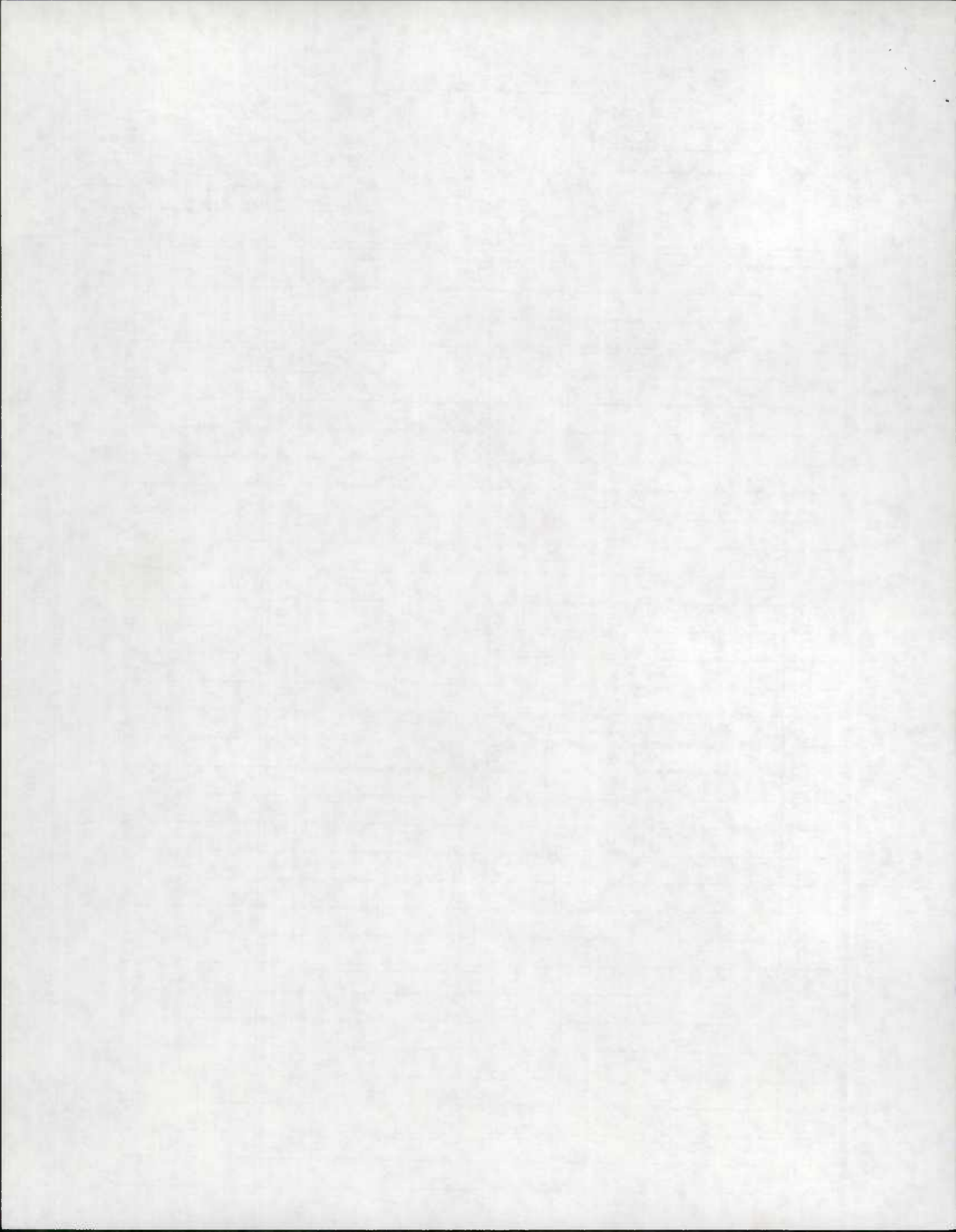
REVISED 12-7-73

Stationing	Notes	Remarks	Measurements
134	Appleton Co. Rd.		
144			20' I 2ml
102		H	X
094			22' I 2ml
086			16' F 30' I
073			X
074		H	23' I 2-5' F shd 2ml
073		PCE079	X
071	BIG ELK	→ CREEK BRUSH 1-A	24' T 2-5' F shd 34' CW
060	Booth Rd Co. 182		X
050		H	
046		H	
038			
030		H	
009		F	
006		H	16' F 30' CW
000	ELK MILLS RD Co. 181		








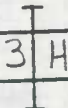


ROAD INVENTORY SHEET

Party Chief F. SETTAN  
Recorder C. FORREST  
Helper \_\_\_\_\_

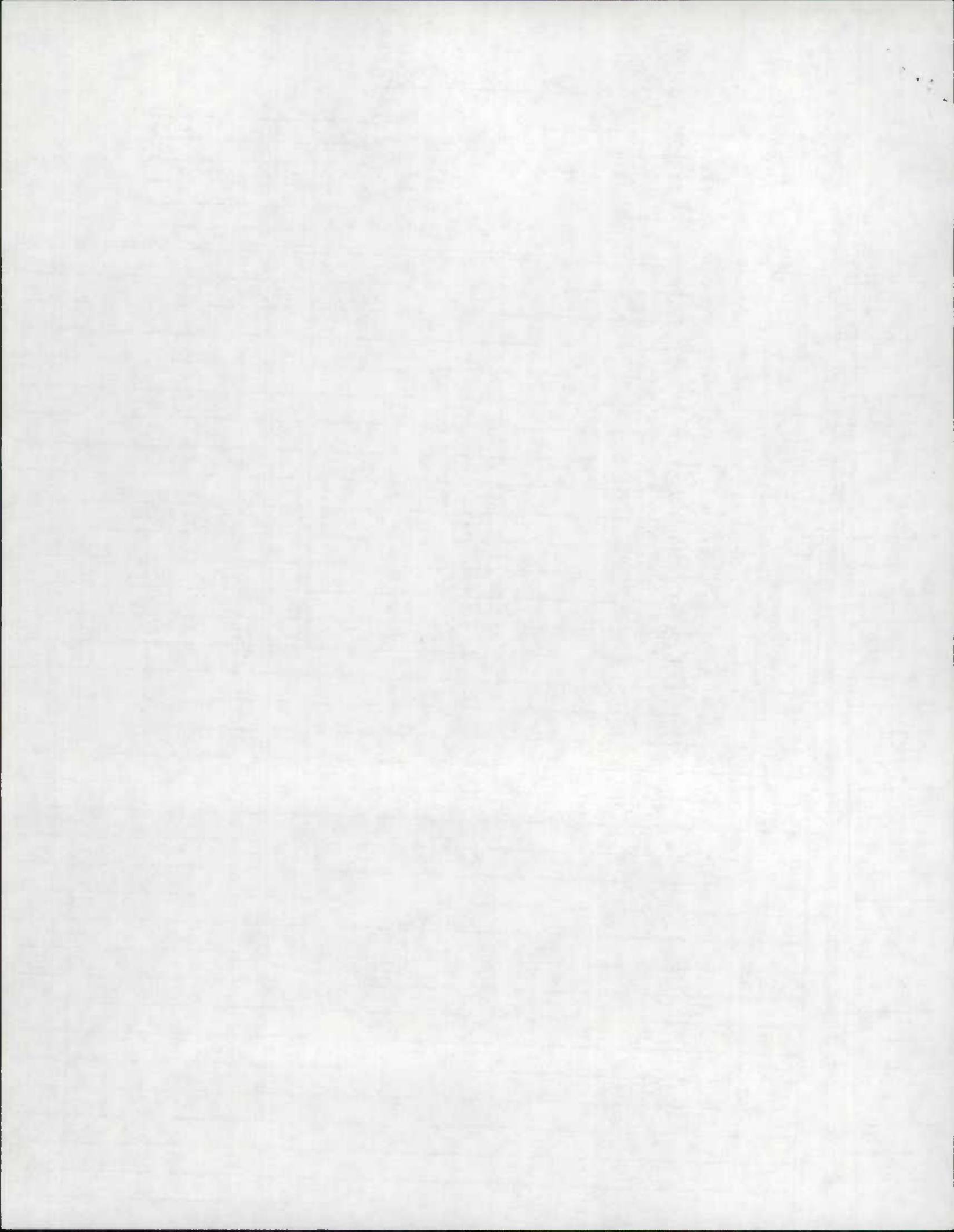
Road No. Co. 410  
Road Name UNION CHURCH RD  
Sheet No. 3 OF 4  
Date 6-30-64  
County CECIL  
State Coordinates \_\_\_\_\_

Map No. \_\_\_\_\_

	H	258	
	F	247	
		230	F
	F1000' 	225	
		210	
		207	CEX 354
	N.B.	206	LA.
	I-	205	95
	S.B.	204	LA.
			26' Jc-C
		203	
		200	*
	Union Valley Rd		
	Co. 341	195	
		181	H
		179	H
		174	
			20'
			2n
	<del>Co. 162</del> <del>Co. 422</del> <del>Co. 120</del>	172	TOMYS Rd.
	CHURCH	170	CEM
	HALL	168	

Union Valley Rd  
 1/2 mile  
 3000 ft  
 1/2 mile  
 3000 ft

20' I  
2ML

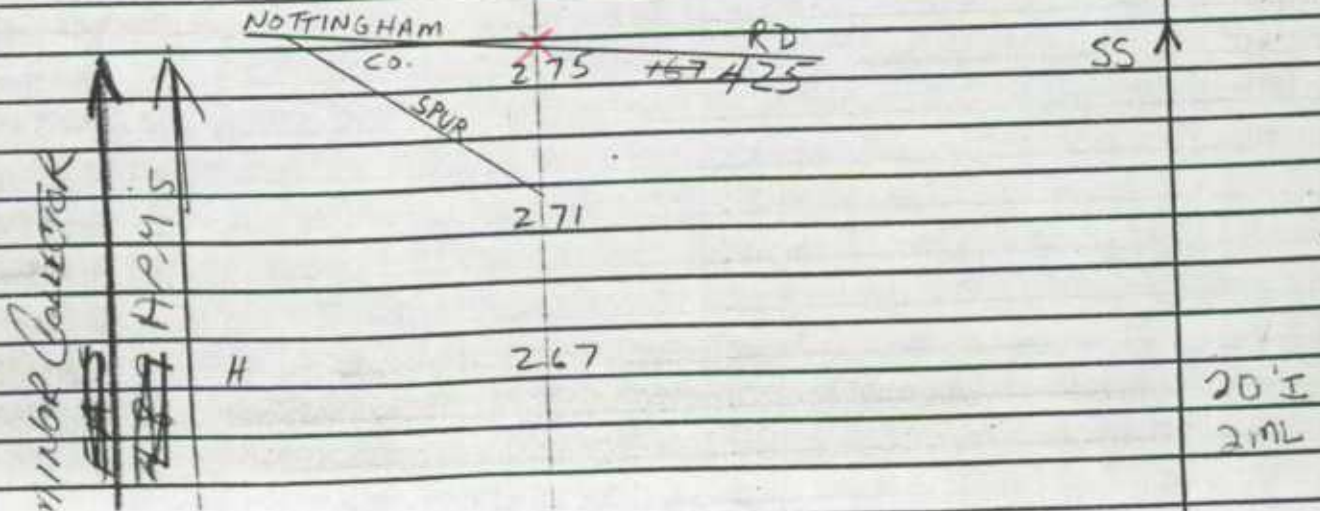




SHA 51.3-8  
11-15-72

ROAD INVENTORY SHEET

Road No. Co. 410  
Road Name UNION CHURCH RD  
Sheet No. 4 OF 4  
Date \_\_\_\_\_  
County \_\_\_\_\_  
State Coordinates \_\_\_\_\_



2

ROAD INVENTORY SHEET

City Chief F. SETTAN  
Order C. FORREST  
Person

VER  
4-26-77

ELKTON

Road No. 0052  
Name BLUE BALL RD #2  
Sheet No. 10F1  
Date 8-6-64  
County CECIL

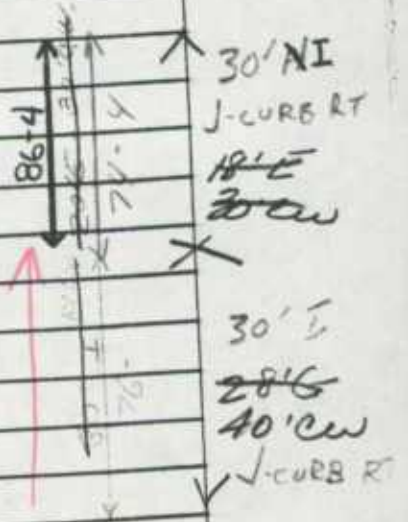
12

CS 5-70 X



ROAD END  
010

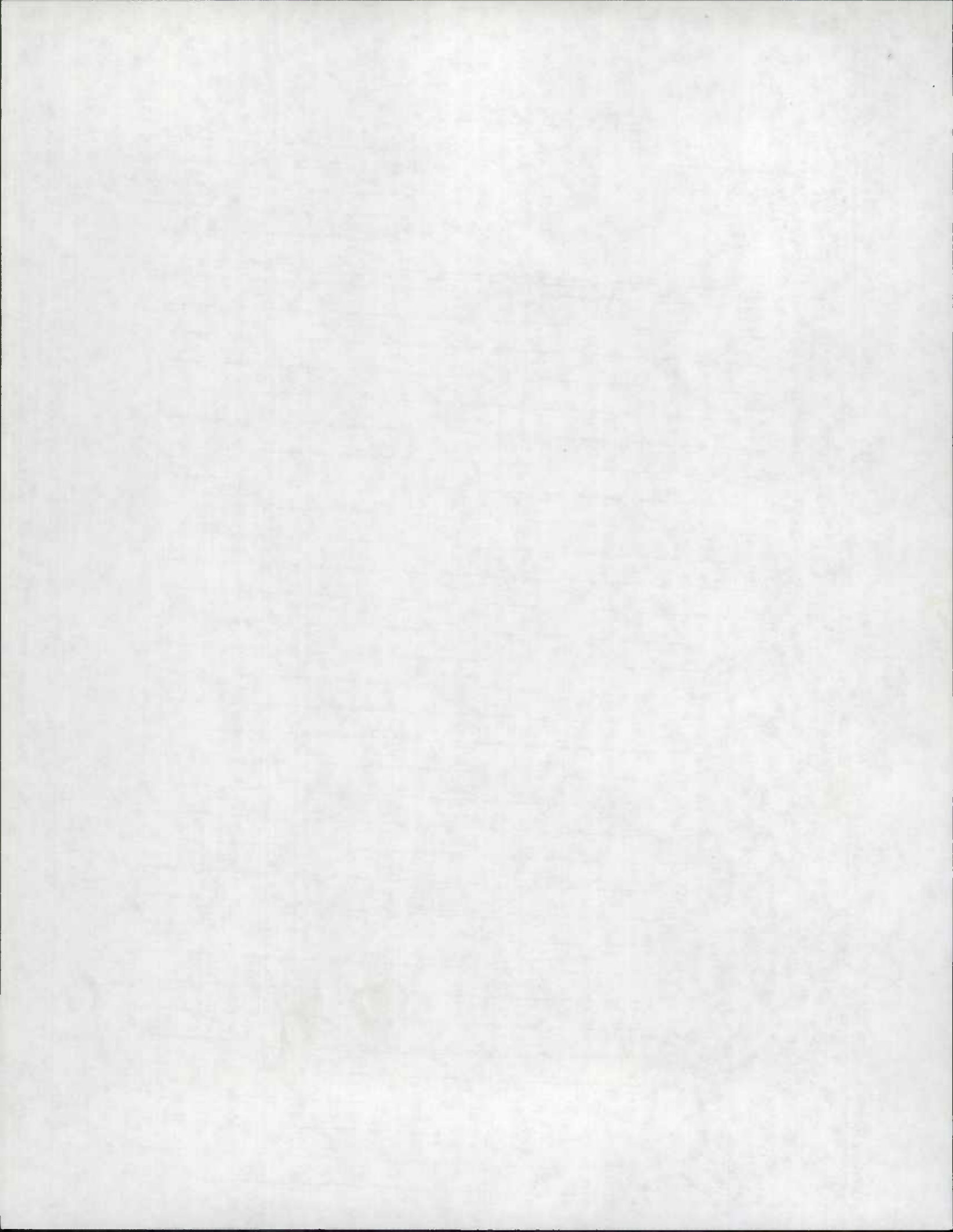
MUN 300  
006 HIGH ST.



000 7D

ADJACENT  
LANE

20510122000  
20510122000  
20510122000

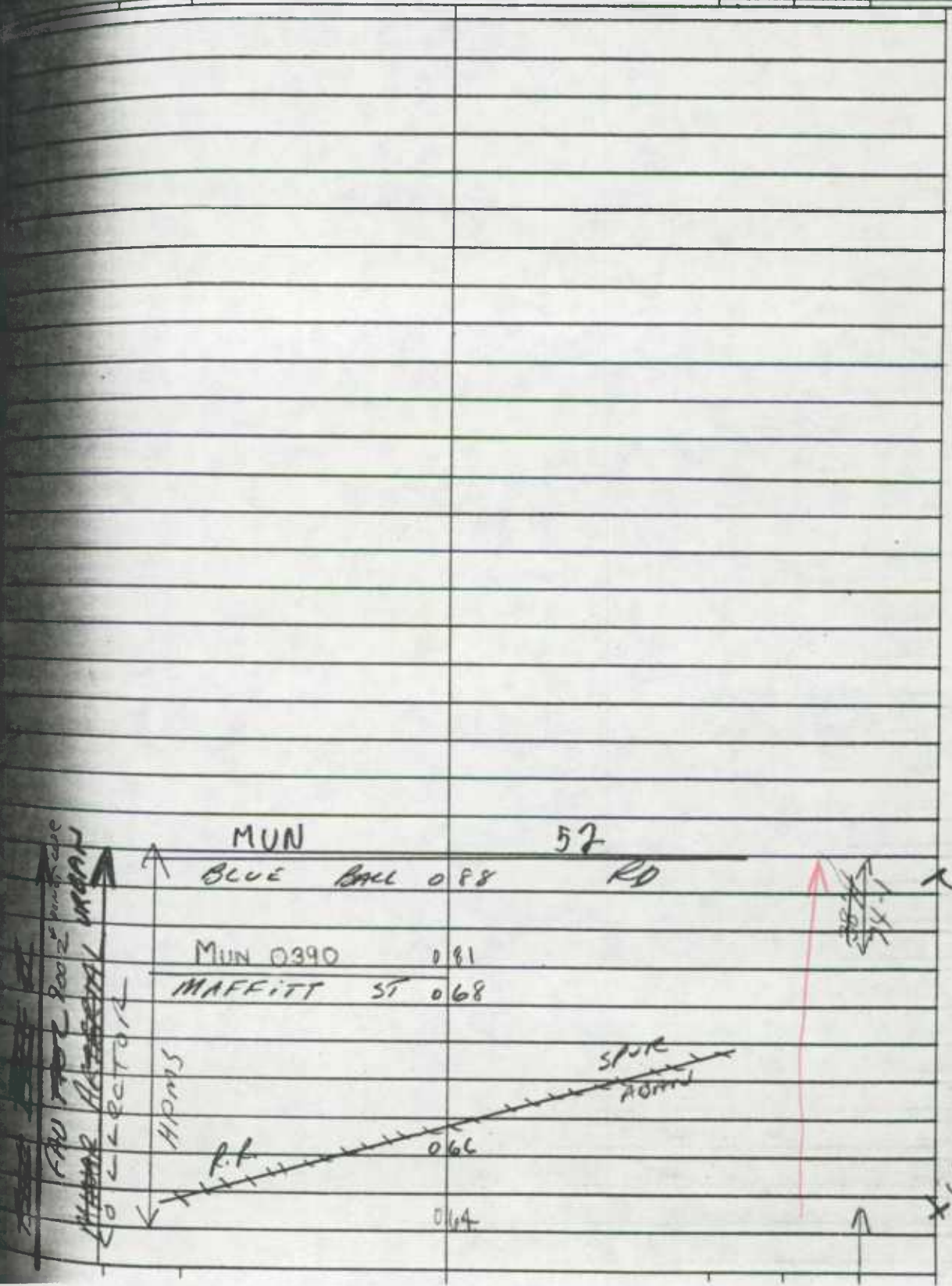


ROAD INVENTORY SHEET

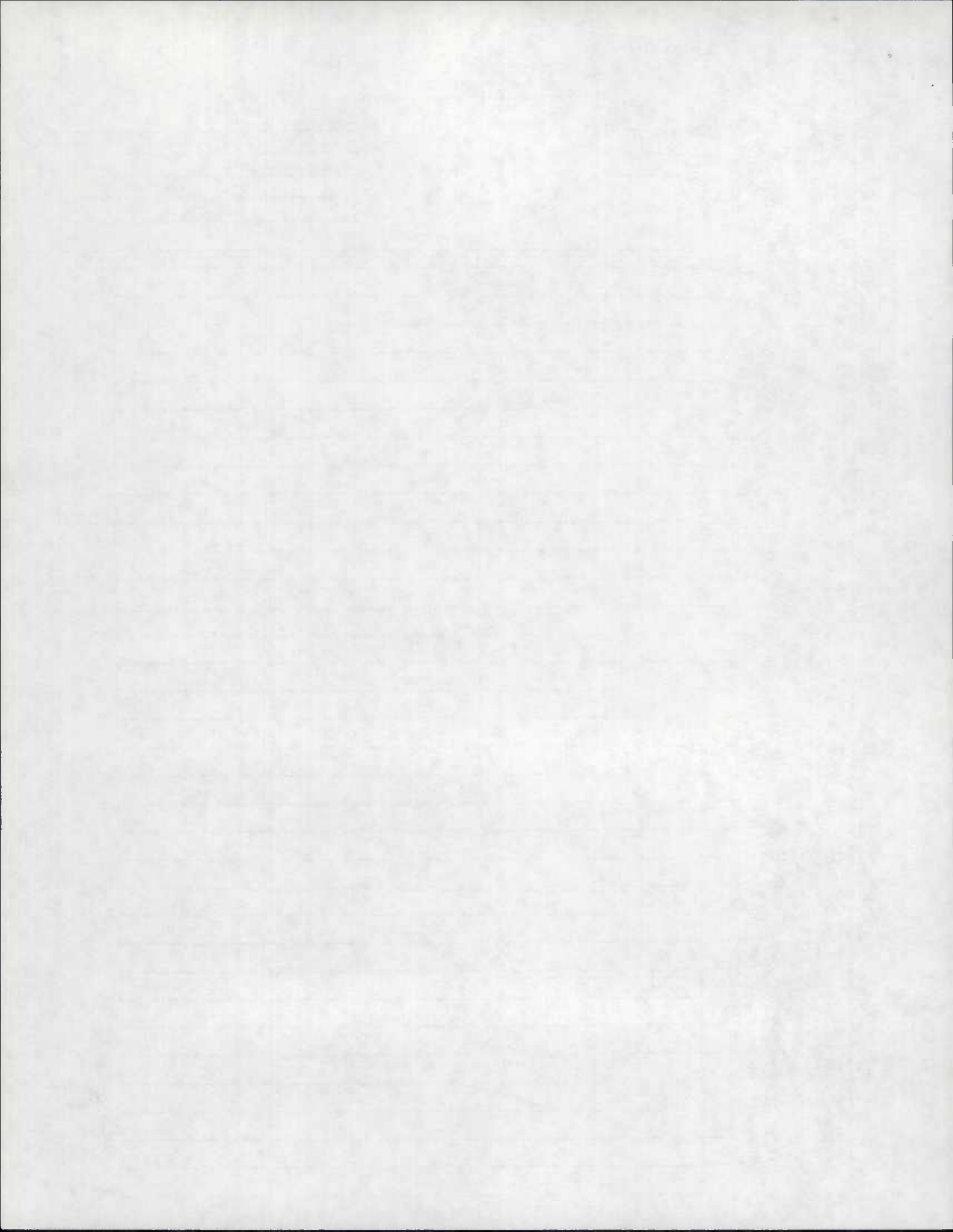
Chief F. SETTAN  
C. FORREST

Road No. 0300  
Name HIGH ST  
Sheet No. 2 OF 2  
Date 8-5-64  
County CECIL

ELKTON



30'H  
J.C.C  
SAME



Revised

MARYLAND STATE HIGHWAY ADMINISTRATION

9-85 KJP

ROAD INVENTORY SHEET

14 15

Chief F. SETTAN  
C. FORREST

Road No. MUN. 0360  
Road Name LANDING LANE  
County CECIL  
Date 8-6-64  
Sheet No. 1 OF 2

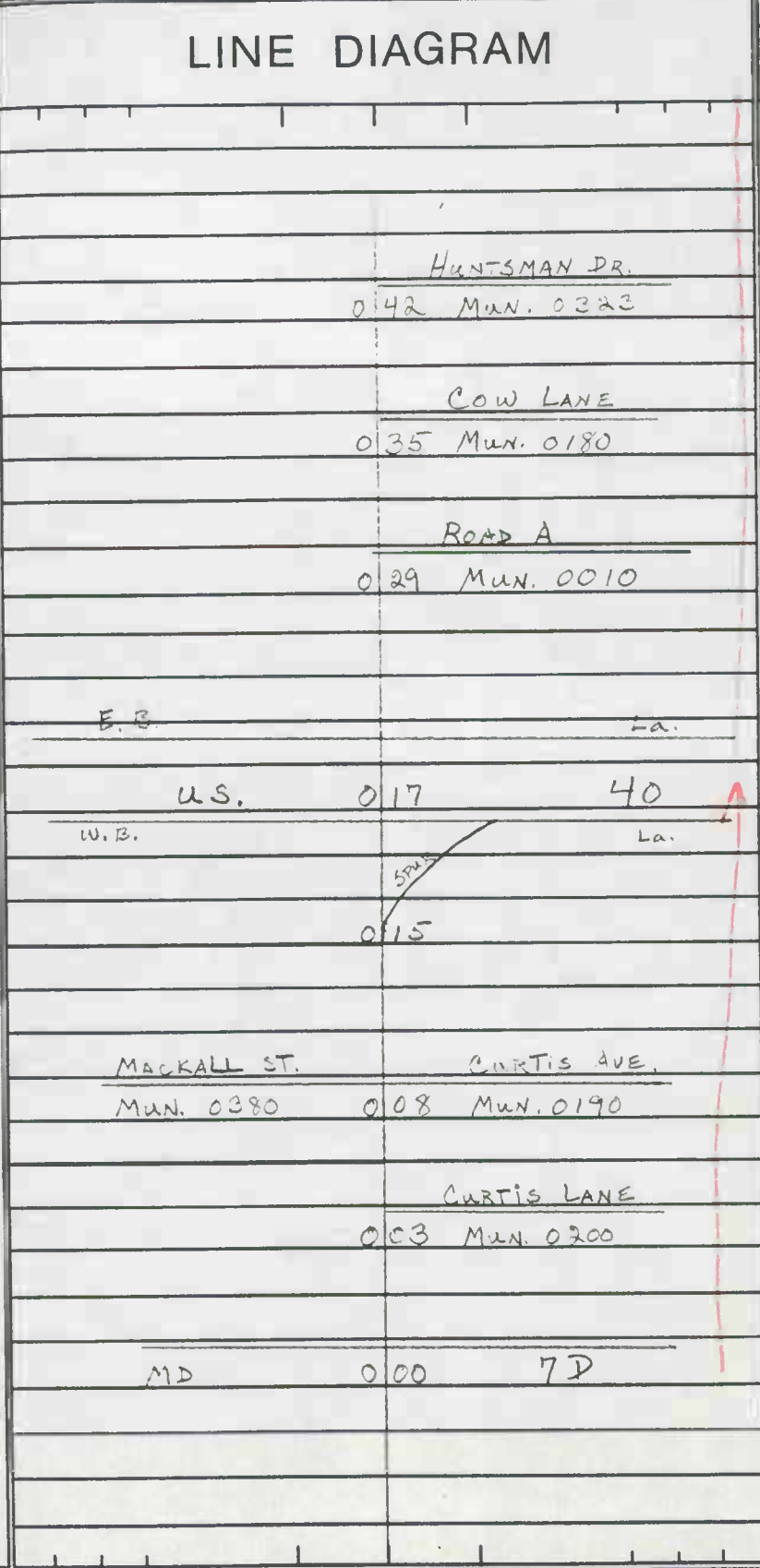
ELKTON

Dir. B-16 / S  
Coordinates 1127-633

83-1 JE  
2-27-24 NS

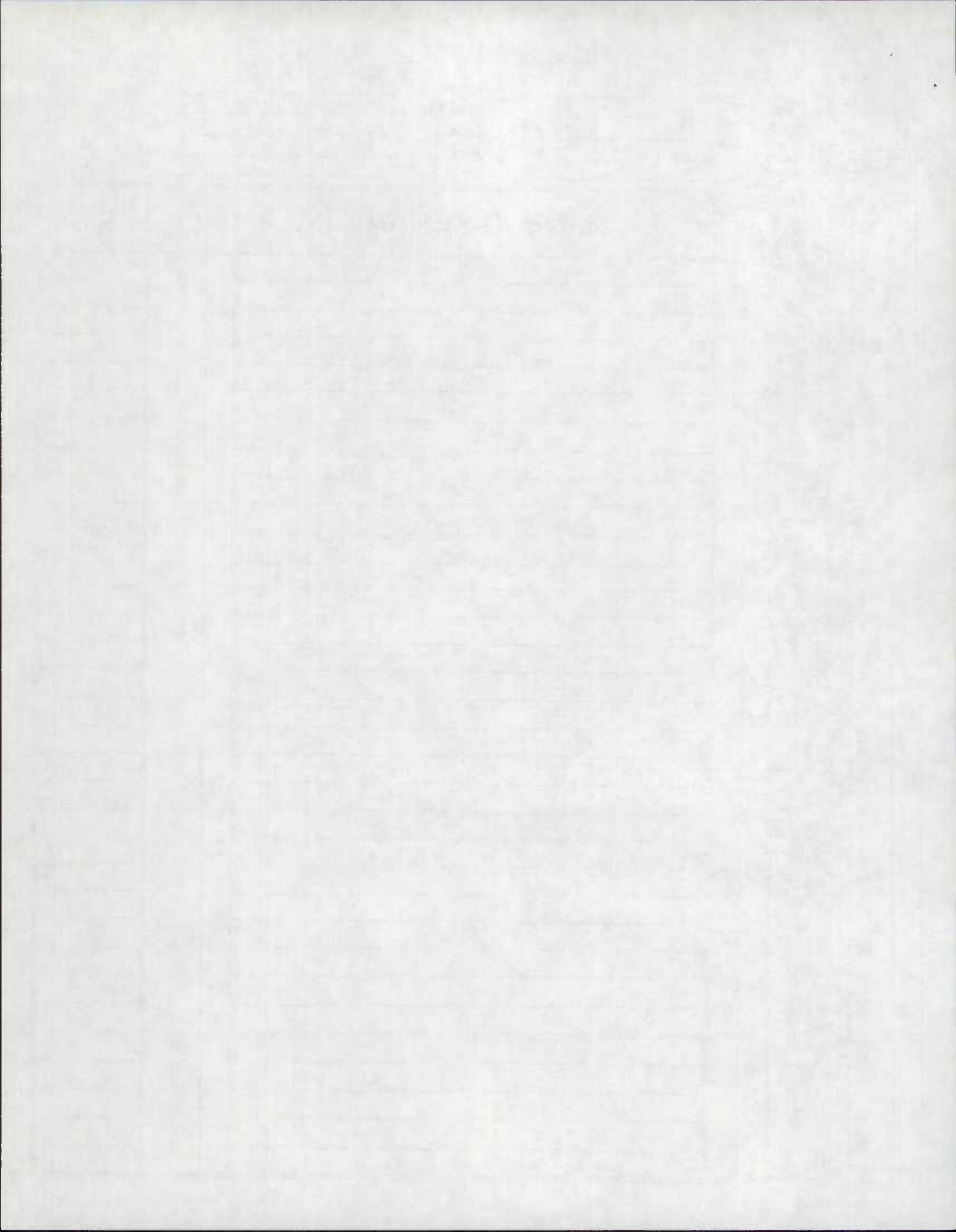
TRAFFIC CONTROL COM/IND ACCESS  
K 603600520000 HPMS 1-7-87  
K 603600550017 HPMS

TRAFFIC PKG. REST. COM/IND. ACCESS



TRAFFIC CONTROL COM/IND. ACCESS PKG. REST.

PAVEMENT DATA  
40' I  
C-C  
V





MU 360  
 # 15

2052

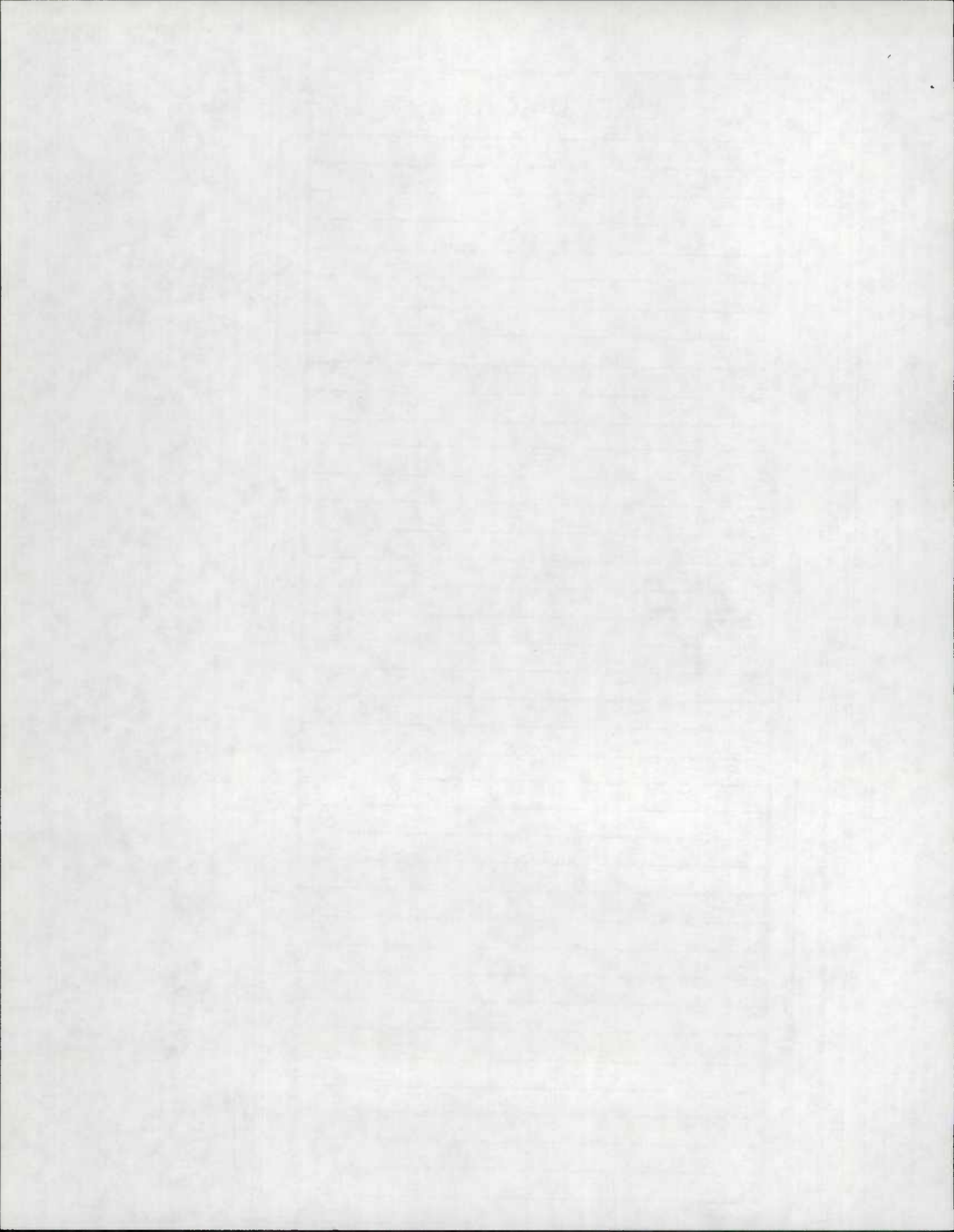
SYSTEM				TRAFFIC		
FED. AID	FUNCT. CLASS.	HWY. SYS.	HPMS SAMPLE	PRKG. REST.	COM/IND ACCESS	CONTROL
<h1>LINE DIAGRAM</h1>						
						0.63
						0.55
						Historical sign OLDFIELD POINT RD
						0.50 Mun. 0460

NON FA  
 URBAN LOCAL  
 HPMS

16  
 30  
 X  
 2  
 5  
 X  
 SA

Map No. \_\_\_\_\_  
 ELKTON

MD



(16)

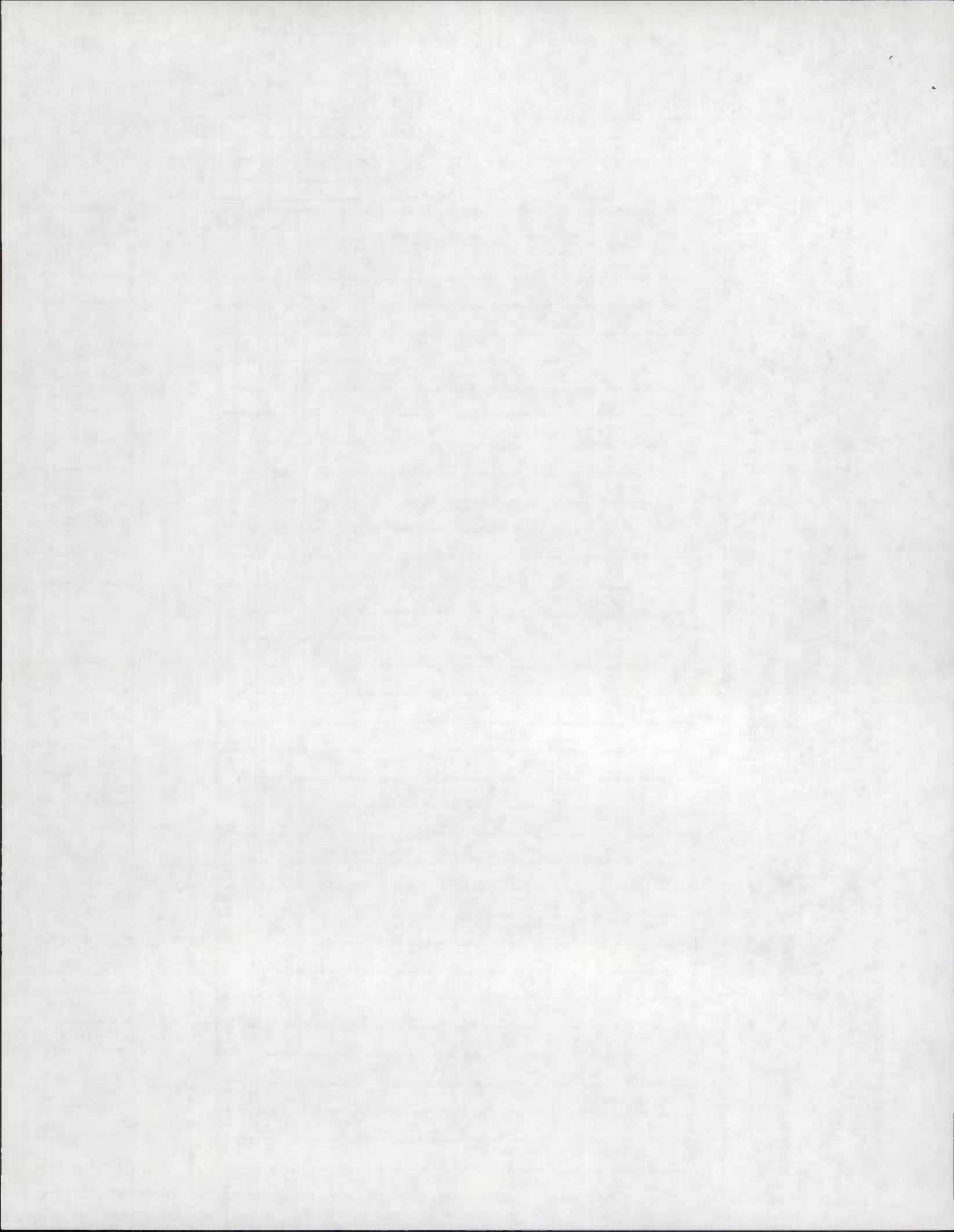
ROAD INVENTORY SHEET

City Chief GD  
 Recorder BB  
 Assistant \_\_\_\_\_  
 No./Dir. 15  
 File Coordinates ELKTON

Road No. MU 0370  
 Road Name LOCUST LA.  
 County CECIL  
 Date 1-7-92  
 Sheet No. 1 OF 2

91-P  
78-10 91-4

SYSTEM	TRAFFIC		LINE DIAGRAM		TRAFFIC			PAVEMENT DATA
	PKG. REST.	COM/IND. ACCESS			CONTROL	COM/IND. ACCESS	PKG. REST.	
K 6037005284H								
								20'I JC-LT 2UML
				E. High St. ↓				
			0.44	MU. 0300	SS			X
				Hermitage Dr.				
				MU. 0290	0.41			
				Booth		La.		33'I 2UML
				MU.	0.39	0060		X
				Mitchell St.				
				MU.	0450	0.36		
					0.33		PT 30°	
					0.25		PC	40'I JC-C 2UML
				Douglas		St.		X
				MU.	0.13	220		
								36'I JC-C 2UML
								X
					0.03			
								28'I JC-RT 2UML
				FRIENDSHIP		Rd. (#2)		
				MU.	0.00	0272		✓



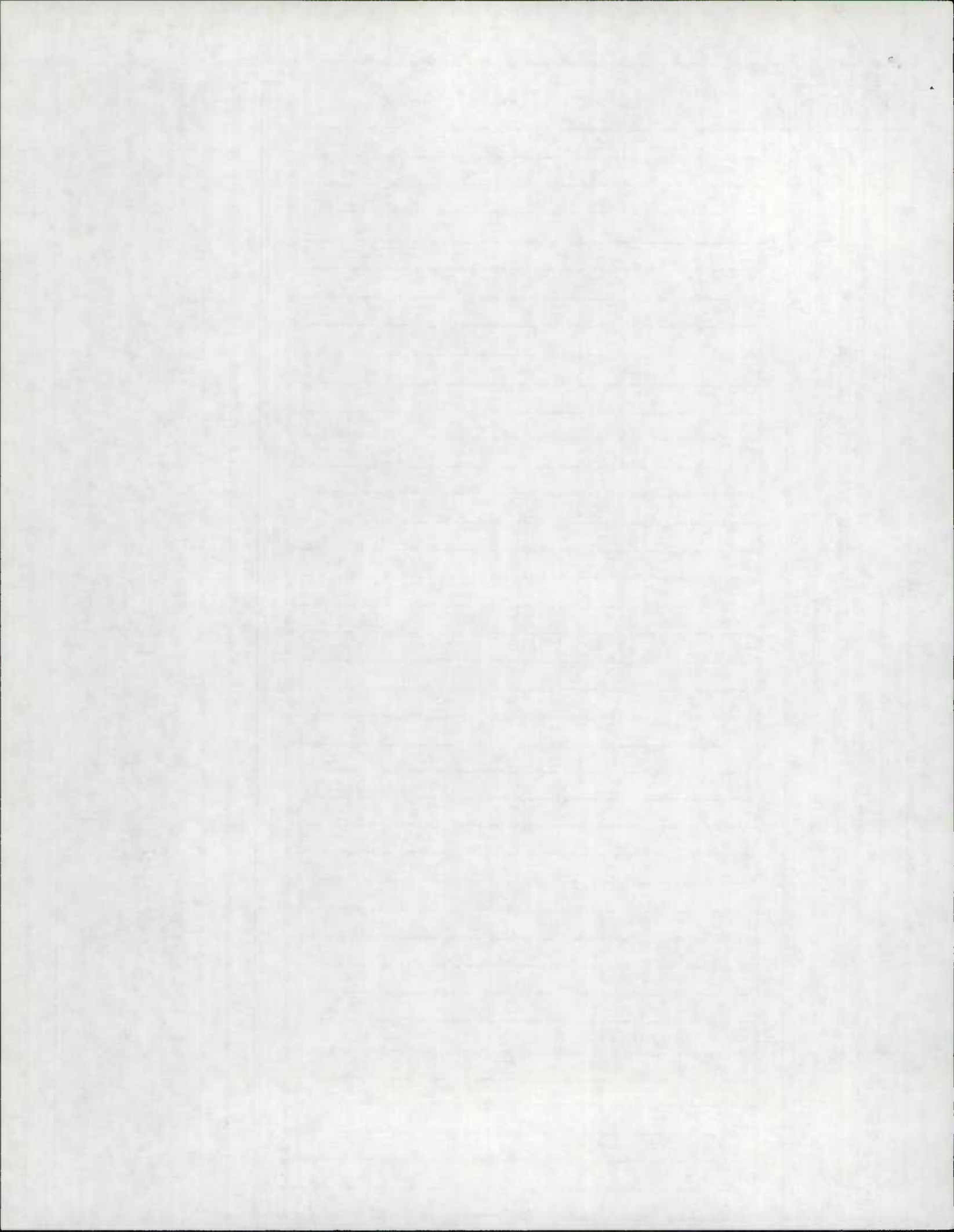
# LINE DIAGRAM

SYSTEM				TRAFFIC			
FED. AID.	FUNCT. CLASS.	HWY. SYS.	HPMS SAMPLE	PRKG. REST.	COM/IND ACCESS	CONTROL	TRAFFIC
FAU 9002	URBAN collector		2				
					0 53	E. MAIN ST	SS
						7-D	
						e1.30	
					0 50		

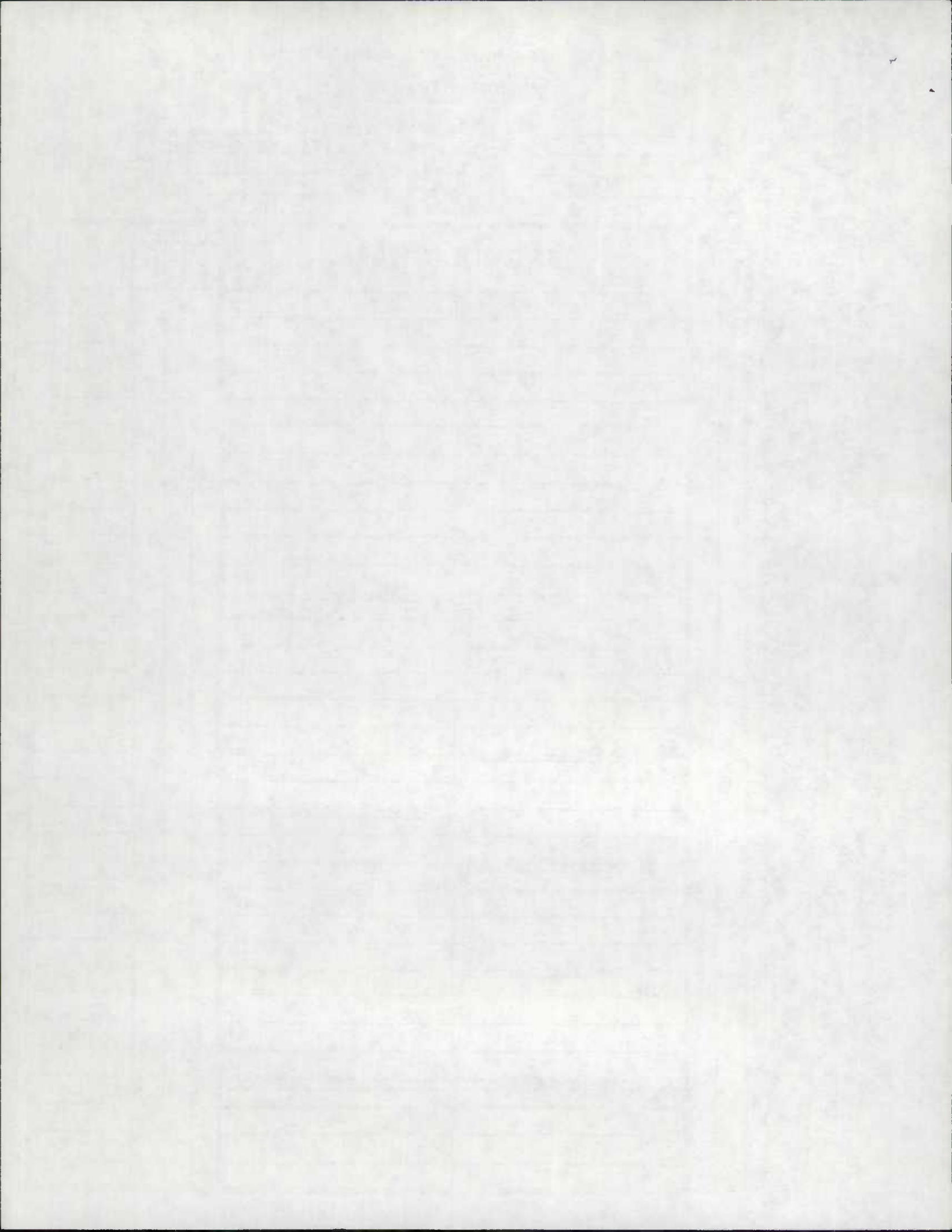
Revised

Chief \_\_\_\_\_  
 Recorder \_\_\_\_\_  
 Assistant \_\_\_\_\_  
 Map No./Dir. \_\_\_\_\_  
 Coordinates \_\_\_\_\_

SYSTEM				TRAFFIC			
FED. AID.	FUNCT. CLASS.	HWY. SYS.	HPMS SAMPLE	PRKG. REST.	COM/IND ACCESS	CONTROL	TRAFFIC
							26
							Jc
							20

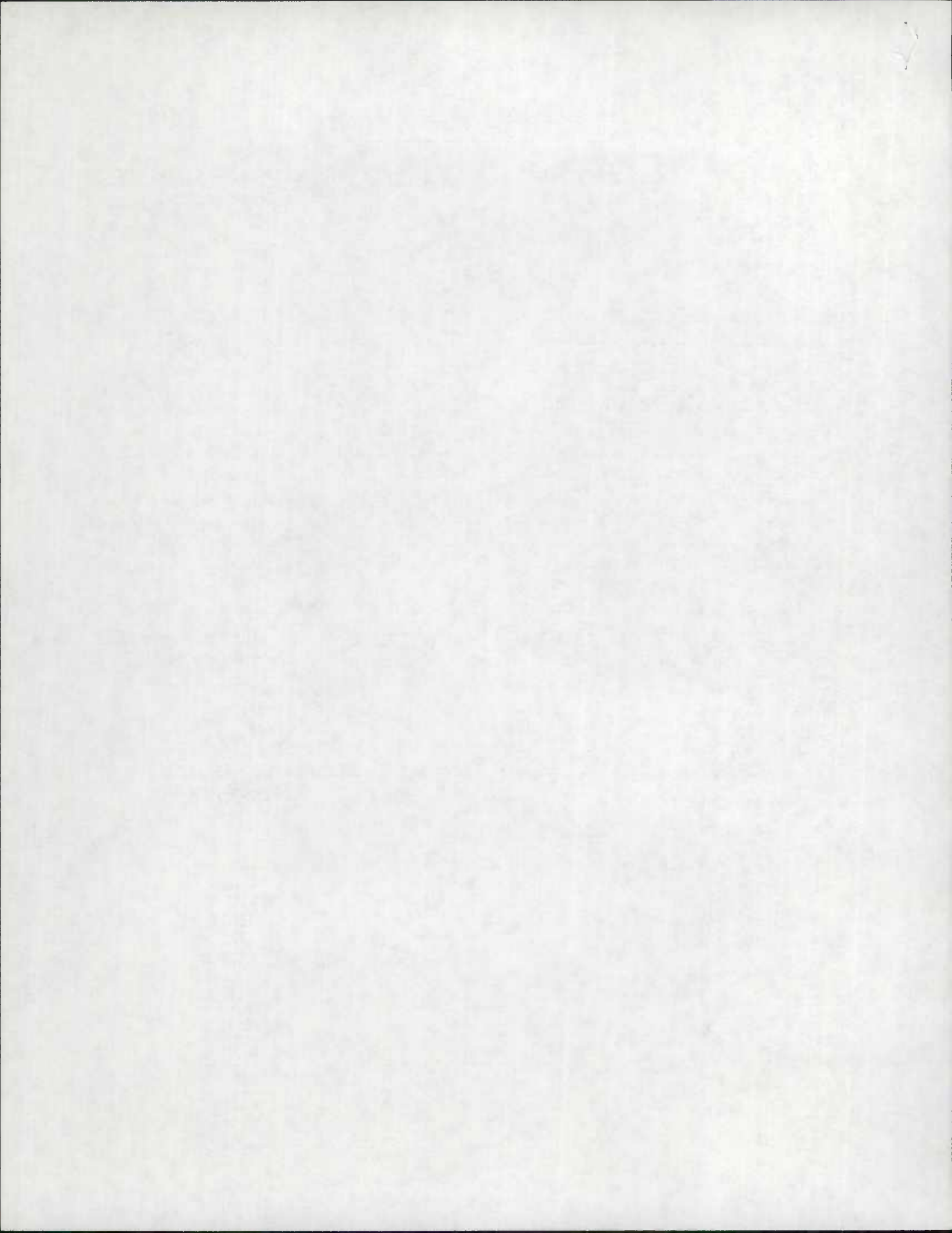








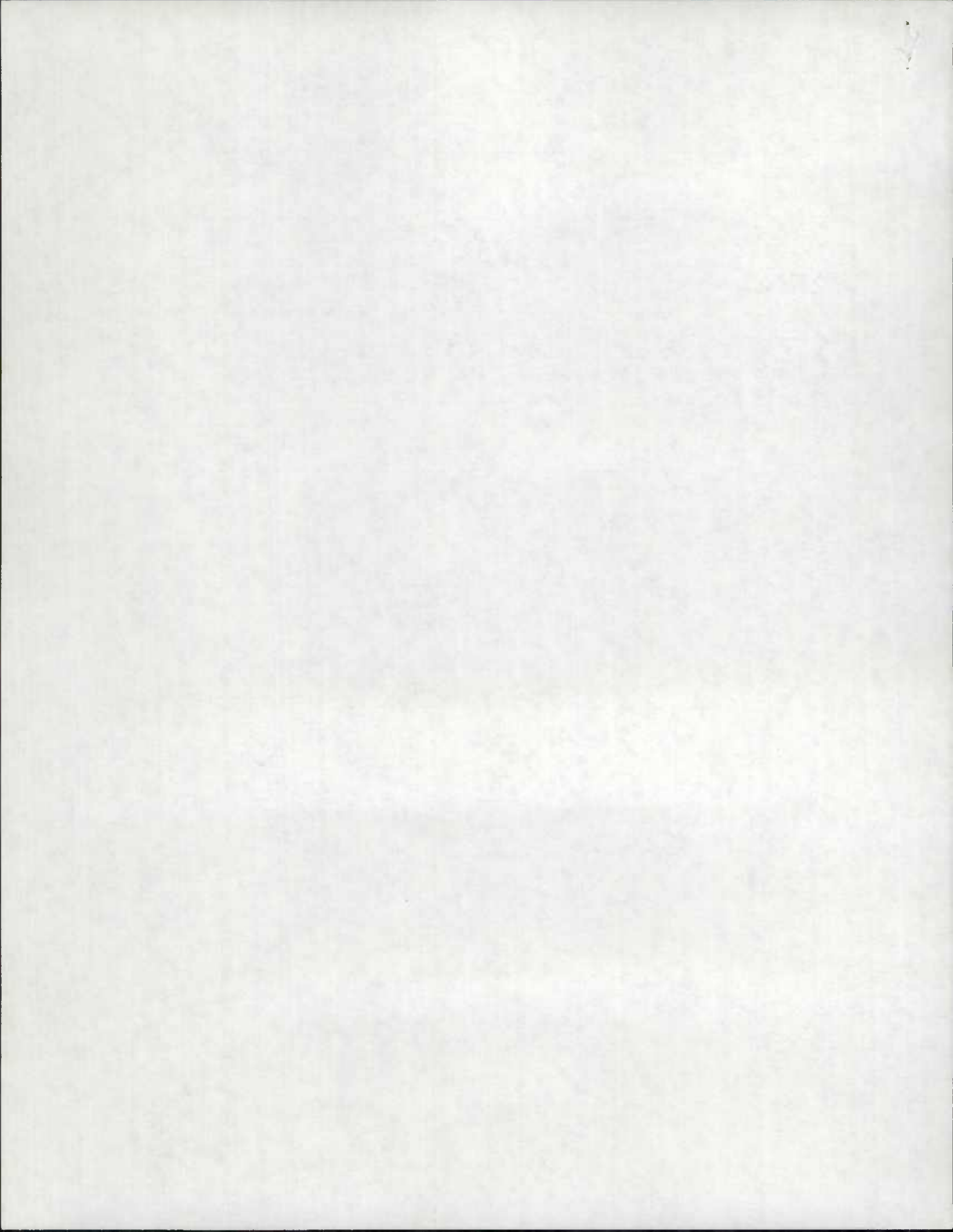




Vertical Curve Section

<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		0%	
1323		-3.5%	
2719		+3.2%	
2932		-1.9%	
3131		+4.8%	
3430		0	
3857		+2.8%	
4546	4699	-1.3%	
4699			

	<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	<u>2</u>	<u>0.33</u>
b.	0.5-2.4	<u>2</u>	<u>0.07</u>
c.	2.5-4.4	<u>3</u>	<u>0.43</u>
d.	4.5-6.4	<u>1</u>	<u>0.06</u>
e.	6.5-8.4	—	—
f.	8.5-	—	—



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

Route No: CO 0145  
 Sample No: 2  
 County: Cecil

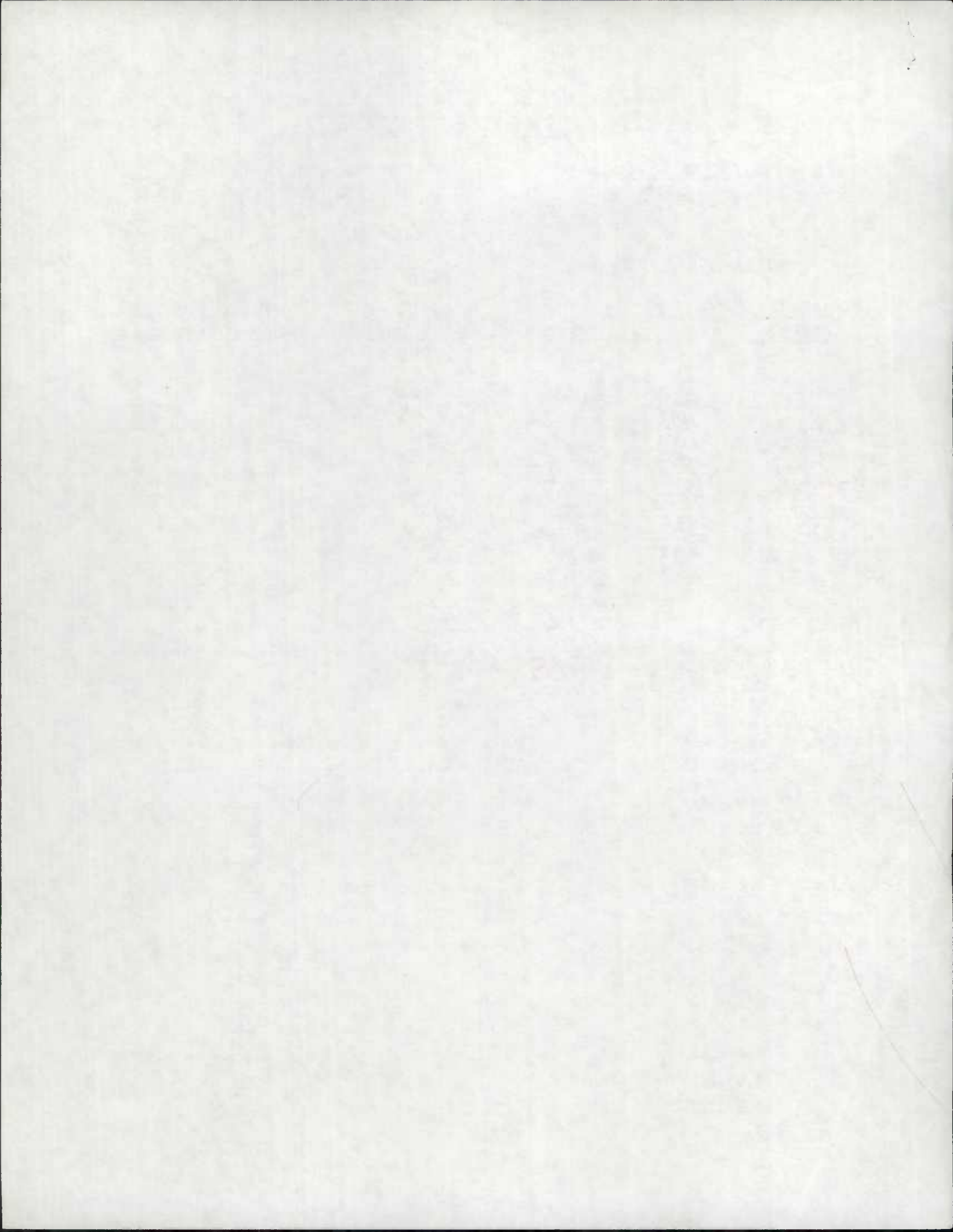
Starting Mile Pt: 0.00  
 Ending Mile Pt: 1.03

(1.03)

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>654</u>	<u>100</u>	<u>0</u>	
<u>L654</u>	<u>792</u>	<u>99.8</u>	<u>2.3</u>	
<u>792</u>	<u>1037</u>	<u>100</u>	<u>0</u>	
<u>R 1037</u>	<u>1877</u>	<del>100</del>	<del>0</del>	
<del>1877</del>	<u>1927</u>	<u>99.5</u>	<u>4.2</u>	
<u>1927</u>	<u>2205</u>	<u>100</u>	<u>0</u>	
<u>R 2205</u>	<u>2702</u>	<u>99.5</u>	<u>3.7</u>	
<u>2702</u>	<u>2952</u>	<u>100</u>	<u>0</u>	
<u>R 2952</u>	<u>3301</u>	<u>98.9</u>	<u>5.8</u>	
<u>3301</u>	<u>3928</u>	<u>100</u>	<u>0</u>	
<u>R 3928</u>	<u>4196</u>	<u>99.6</u>	<u>4.0</u>	
<u>4196</u>	<u>4333</u>	<u>100</u>	<u>0</u>	
<u>L4333</u>	<u>5312</u>	<u>99.8</u>	<u>2.4</u>	
<u>5312</u>	<u>5436</u>	<u>100</u>	<u>0</u>	
	<u>Curve Classes</u>		<u>Number of</u>	<u>Length</u>
	<u>by</u>		<u>Curves</u>	<u>of Curves</u>
	<u>Degree of</u>		<u>(Right-</u>	<u>in Class</u>
	<u>Curvature</u>		<u>Justified)</u>	<u>(Implied Decimal)</u>
				<u>(xx.xxx miles)</u>

a.	0.0-0.4	<u>7</u>	<u>0.53</u>
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	<u>1</u>	<u>0.03</u>
j.	11.0-13.9	<u>1</u>	<u>0.09</u>
k.	14.0-19.4	<u>3</u>	<u>0.31</u>
l.	19.5-27.9	<u>1</u>	<u>0.07</u>
m.	28+	---	---



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	294	0%	
294	1927	-5.7	
1927	2265	+2.0	
2265	2703	-0.7	
2703	2952	<del>+2.4</del> +2.4%	
2952	3301	-1.250%	
3301	3769	+1.2	
3769	4196	-3.4	
4196	5312	+5.1	
5312	5436	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	<u>2</u>	<u>0.03</u>
b.	0.5-2.4	<u>0</u>	<u>0.26</u>
c.	2.5-4.4	<u>1</u>	<u>0.08</u>
d.	4.5-6.4	<u>1</u>	<u>0.21</u>
e.	6.5-8.4	<u>1</u>	<u>0.31</u>
f.	8.5-	<u>1</u>	<u>0.09</u>





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

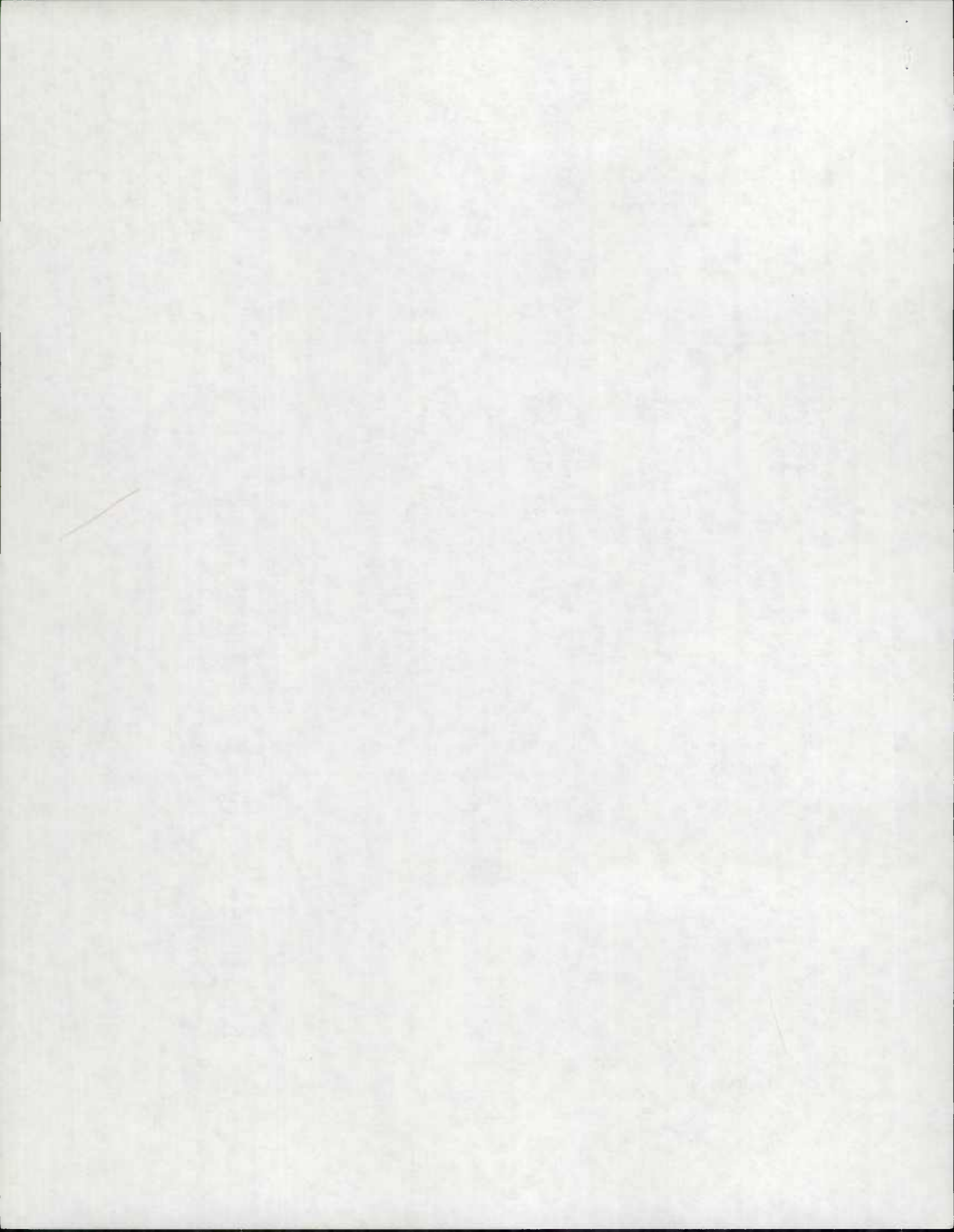
Route No: CO 0145  
 Sample No: 3  
 County: Coal

Starting Mile Pt: 1.03  
 Ending Mile Pt: 2.05  
(1.02)

Horizontal Curve Section

Start Pt. (in ft.)	End Pt. (in ft.)	Chord length (/100ft)	Central Ord. Length (/100ft)	Length of Total Curve in(x.xxmile)
R 0	1220	100	0	
R 1220	1408	99.9	1.2	
1408	2593	100	0	
R 2593	2856	99.85	1.9	
2856	4076	100	0	
R 4076	4811	99.95	0.8	
4811	5384	100	0	

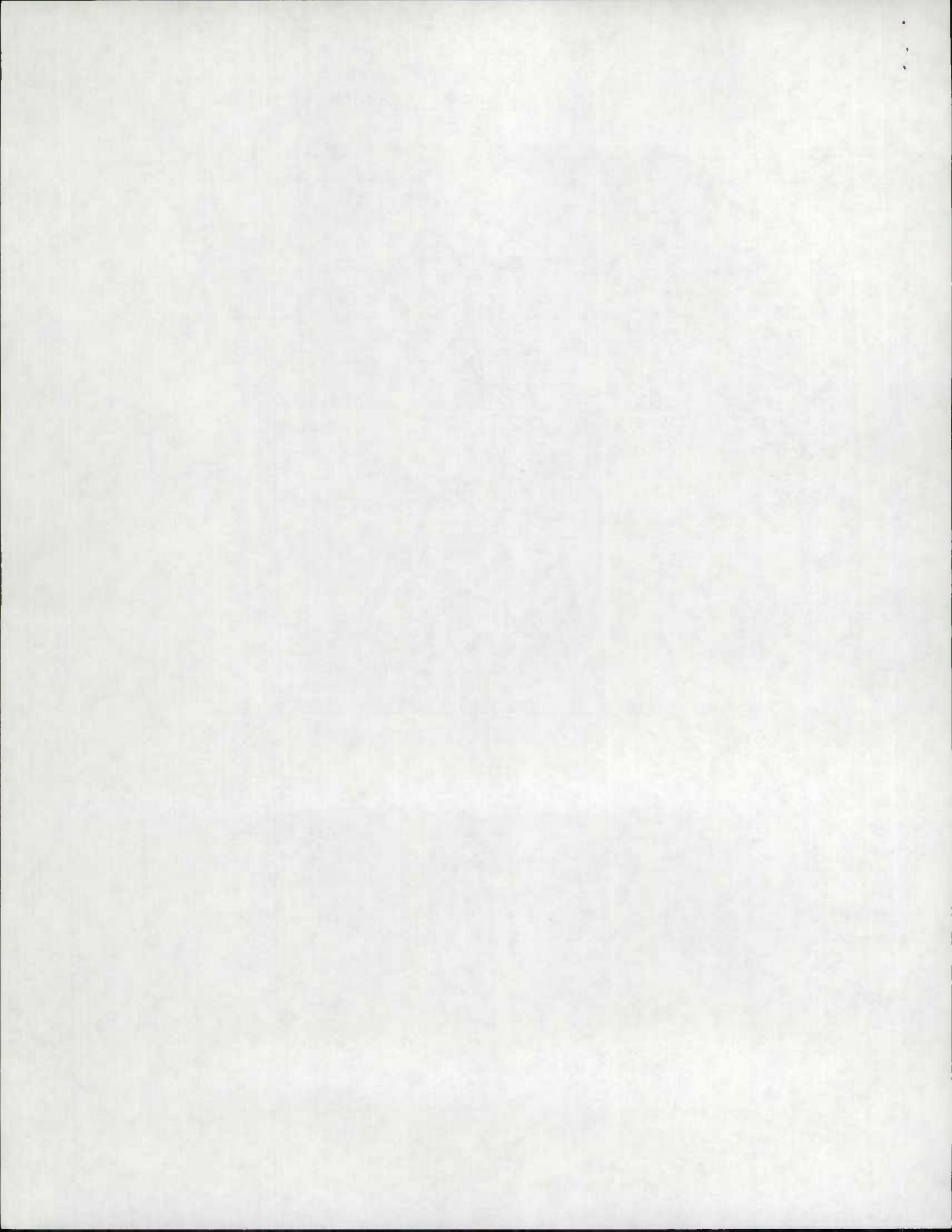
Curve Classes by Degree of Curvature	Number of Curves (Right- Justified)	Length of Curves in Class (Implied Decimal) (xx.xxx miles)
a. 0.0-0.4	<u>4</u>	<u>0.79</u>
b. 0.5-1.4	---	---
c. 1.5-2.4	---	---
d. 2.5-3.4	---	---
e. 3.5-4.4	<u>1</u>	<u>0.14</u>
f. 4.5-5.4	---	---
g. 5.5-6.9	<u>1</u>	<u>0.04</u>
h. 7.0-8.4	---	---
i. 8.5-10.9	<u>1</u>	<u>0.05</u>
j. 11.0-13.9	---	---
k. 14.0-19.4	---	---
l. 19.5-27.9	---	---
m. 28+	---	---



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	454	0%	
454	760	+4.9%	
760	1220	<del>-0.7%</del>	
1220	1408	+2.8%	
1408	1701	-3.4%	
1701	1941	0%	
1941	2169	+0.8%	
2169	2593	-2.4%	
2593	3038	+2.0%	
3038	3375	0%	
3375	4324	-9.4%	
4324	4811	0%	
4811	5284	+4.7%	

	<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	<u>5</u>	<u>0.35</u>
b.	0.5-2.4	<u>4</u>	<u>0.28</u>
c.	2.5-4.4	<u>2</u>	<u>0.10</u>
d.	4.5-6.4	<u>1</u>	<u>0.11</u>
e.	6.5-8.4	<u>   </u>	<u>   </u>
f.	8.5-	<u>1</u>	<u>0.18</u>



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

Route No: Co 184  
 Sample No: 4  
 County: Cecil

Starting Mile Pt: 0.00  
 Ending Mile Pt: 0.60

(0.60)

Horizontal Curve Section

<u>Start Pt.</u> (in ft.)	<u>End Pt.</u> (in ft.)	<u>Chord</u> <u>length</u> (/100ft)	<u>Central</u> <u>Ordi. Length</u> (/100ft)	<u>Length of Total</u> <u>Curve in(x.xxmile)</u>
<del>0</del>	3166	100	0	
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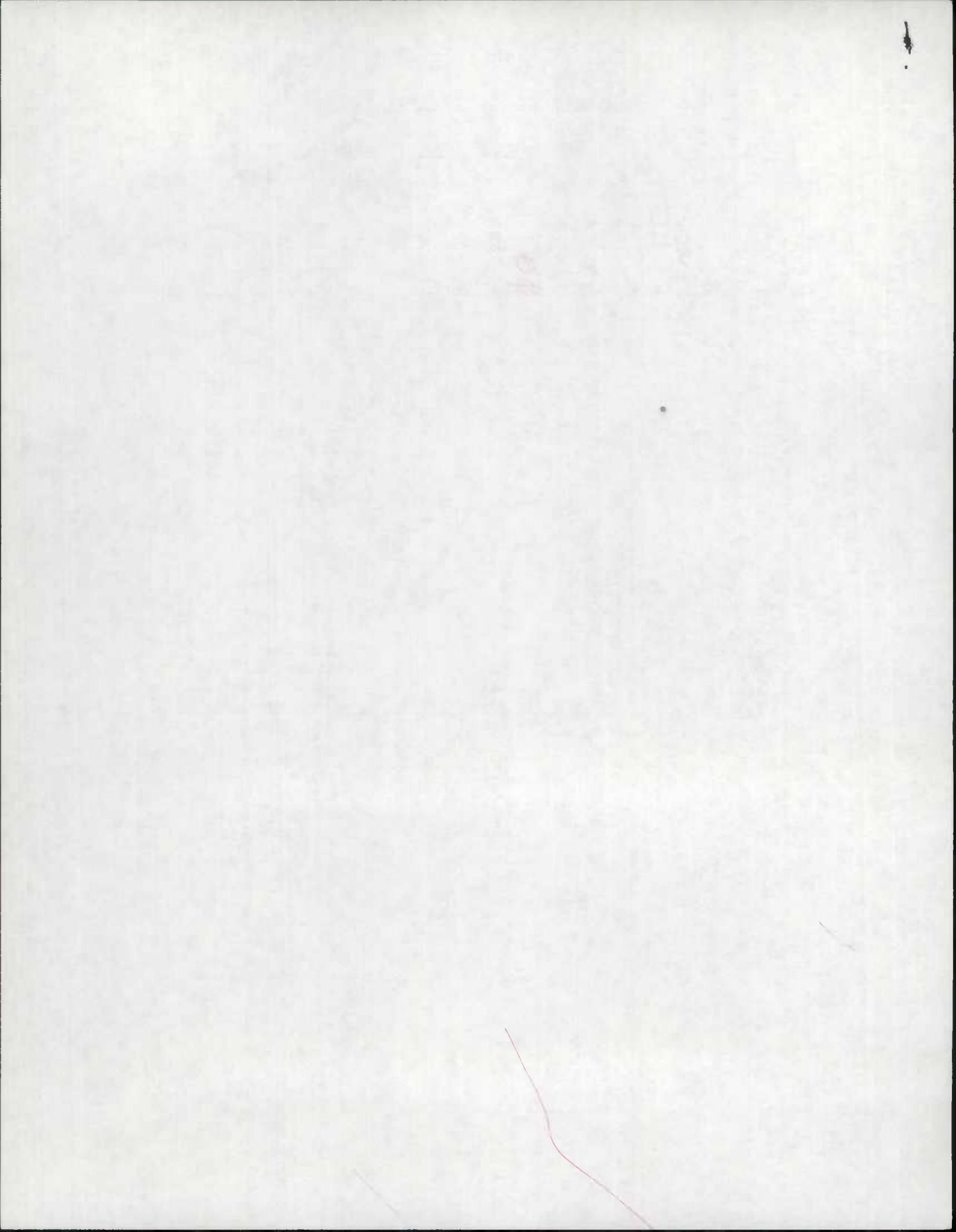
	<u>Curve</u> <u>Classes</u> <u>by</u> <u>Degree of</u> <u>Curvature</u>	<u>Number of</u> <u>Curves</u> <u>(Right-</u> <u>Justified)</u>	<u>Length</u> <u>of Curves</u> <u>in Class</u> <u>(Implied Decimal)</u> <u>(xx.xxx miles)</u>
a.	0.0-0.4	<u>1</u>	<u>0.60</u>
b.	0.5-1.4	-----	-----
c.	1.5-2.4	-----	-----
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.	28+	-----	-----



Vertical Curve Section

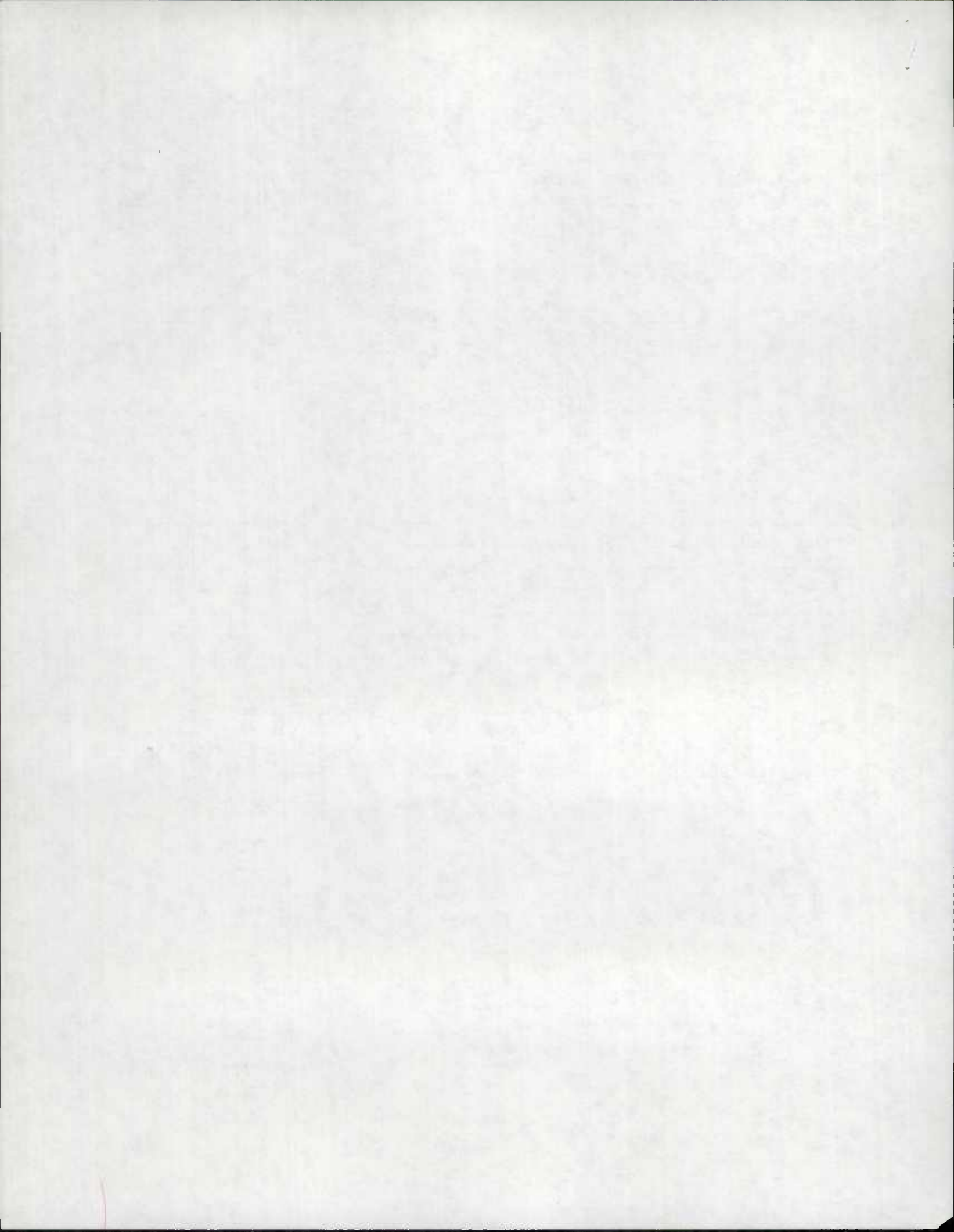
<u>Start Pt.</u> (in ft.)	<u>End Pt.</u> (in ft.)	<u>Gradient Percent</u>	<u>Length of Curve</u> (in x.xx miles)
0	577	+3.0	-----
577	925	-2.5	-----
925	2021	0	-----
<del>1202</del> 2021	2667	<del>0</del> -2.0	-----
2667	3166	-5.4	-----
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	<u>Grade Classes 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	<u>1</u>	<u>0.21</u>
b.	0.5-2.4	<u>1</u>	<u>0.12</u>
c.	2.5-4.4	<u>2</u>	<u>0.18</u>
d.	4.5-6.4	<u>1</u>	<u>0.09</u>
e.	6.5-8.4	-----	-----
f.	8.5-	-----	-----





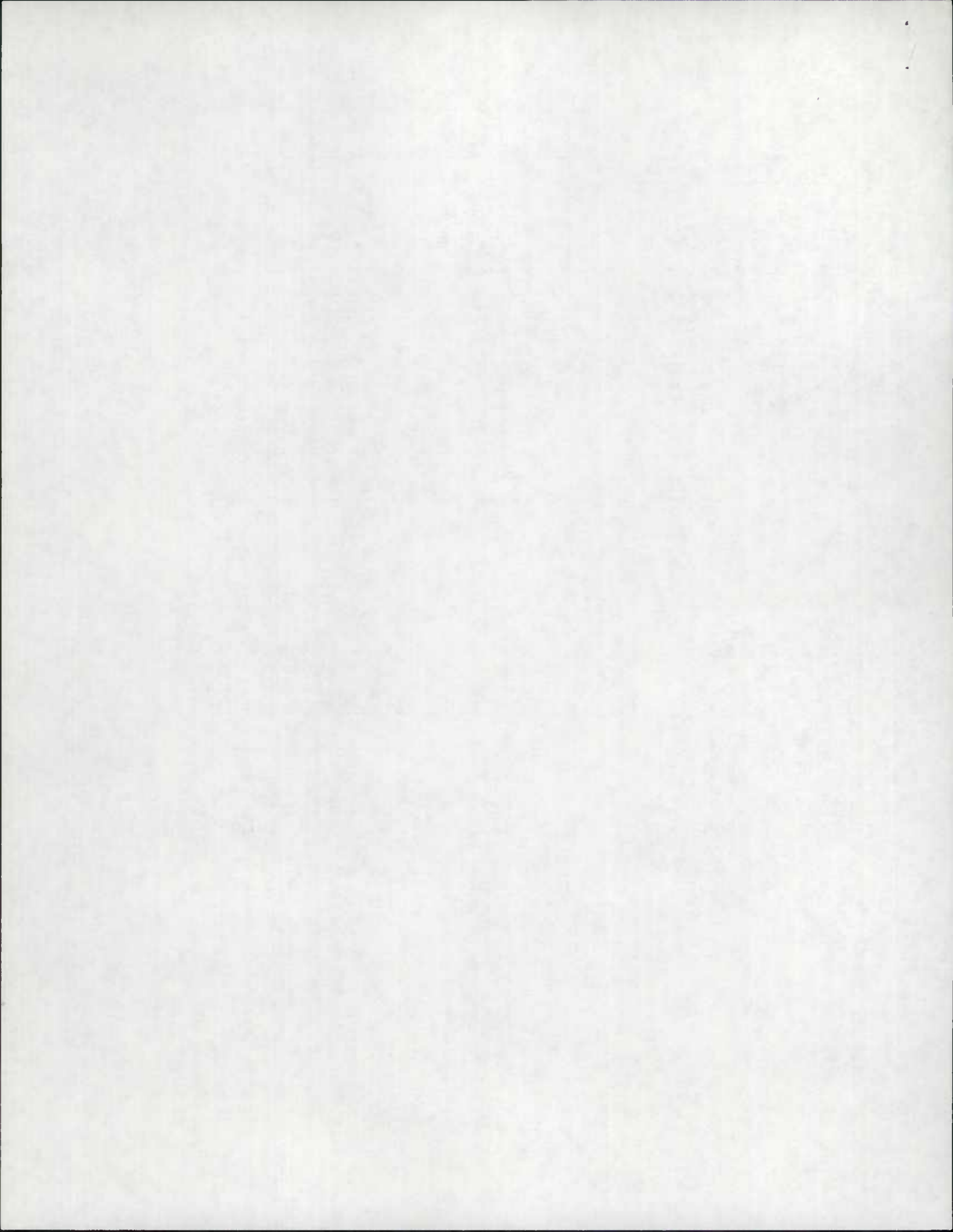




### Vertical Curve Section

<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)
<del>0</del> 446	<del>446</del> 684	<del>-5.4</del> +5.7	-----
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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	<u>2</u>	<u>0.13</u>
e.	6.5-8.4	-----	-----
f.	8.5-	-----	-----



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

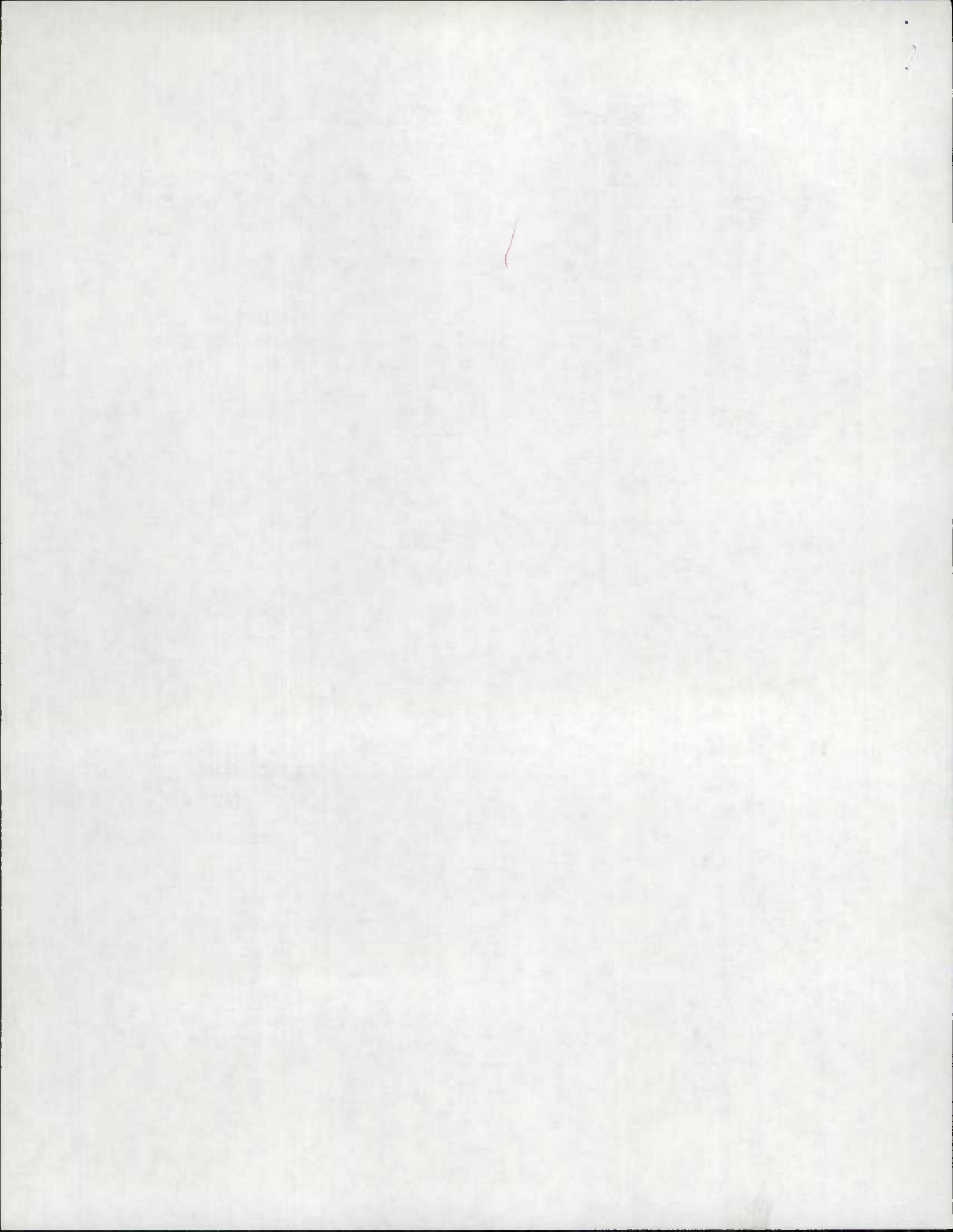
Route No: CO 0184  
 Sample No: 6  
 County: Cecil

Starting Mile Pt: 0.73  
 Ending Mile Pt: 0.83  
(0.10)

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>225</u>	<u>100</u>	<u>0</u>	
<u>L 225</u>	<u>526</u>	<u>99.85</u>	<u>1.5</u>	
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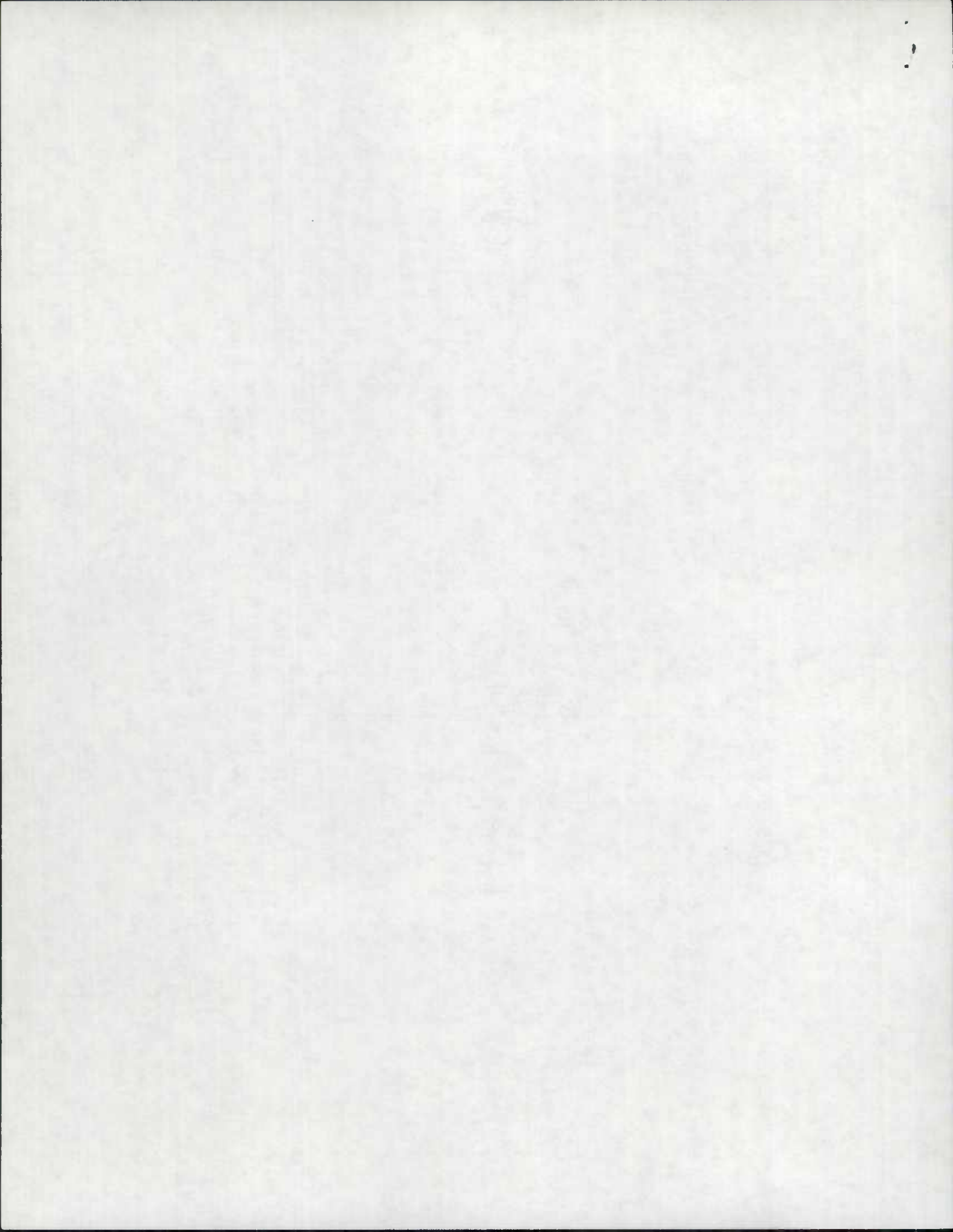
	<u>Curve</u> <u>Classes</u> <u>by</u> <u>Degree of</u> <u>Curvature</u>	<u>Number of</u> <u>Curves</u> <u>(Right-</u> <u>Justified)</u>	<u>Length</u> <u>of Curves</u> <u>in Class</u> <u>(Implied Decimal)</u> <u>(xx.xxx miles)</u>
a.	0.0-0.4	<u>1</u>	<u>0.04</u>
b.	0.5-1.4	-----	-----
c.	1.5-2.4	-----	-----
d.	2.5-3.4	-----	-----
e.	3.5-4.4	-----	-----
f.	4.5-5.4	-----	-----
g.	5.5-6.9	<u>1</u>	<u>0.06</u>
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.	28+	-----	-----



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	500	+5.7	
500	536	-0.6	

	<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	1	0.02
c.	2.5-4.4	—	—
d.	4.5-6.4	1	0.08
e.	6.5-8.4	—	—
f.	8.5-	—	—





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

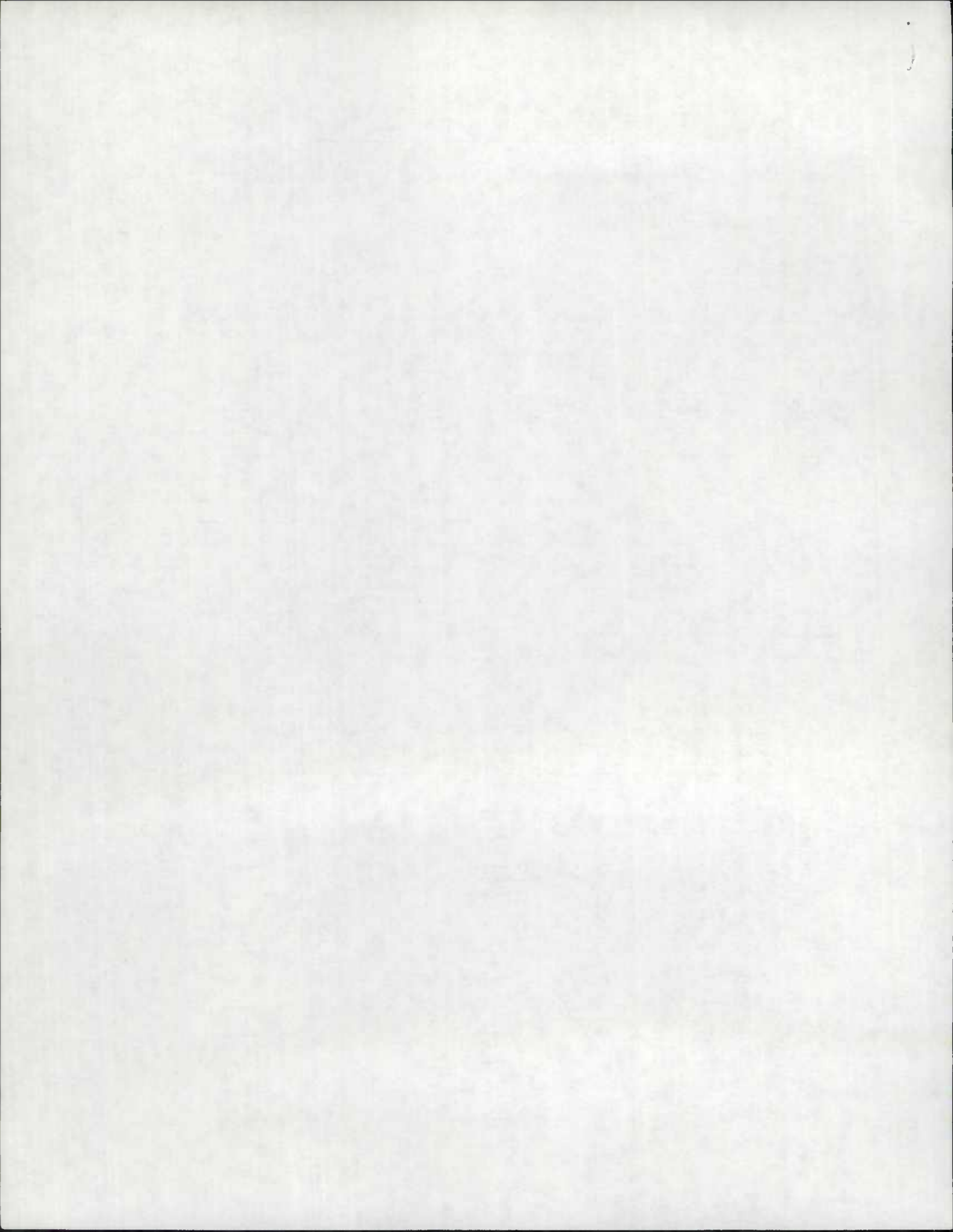
Route No: CO 2184  
Sample No: 7  
County: Cecil

Starting Mile Pt: 0.83  
Ending Mile Pt: 1.02  
0.19

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> P <u>698</u>	<u>698</u> <u>1005</u>	<u>100</u> <u>99.7</u>	<u>0</u> <u>2.6</u>	
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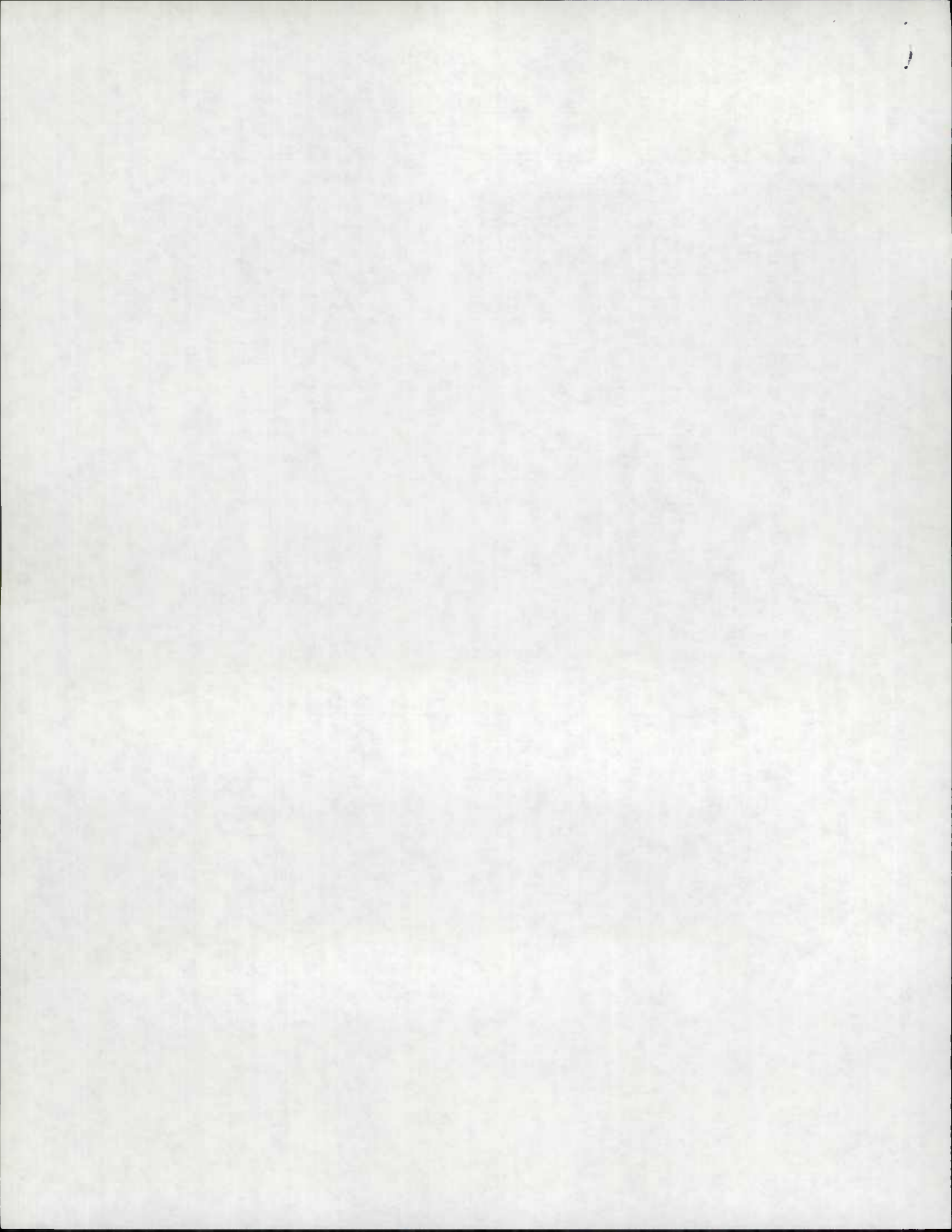
	<u>Curve</u> <u>Classes</u> <u>by</u> <u>Degree of</u> <u>Curvature</u>	<u>Number of</u> <u>Curves</u> <u>(Right-</u> <u>Justified)</u>	<u>Length</u> <u>of Curves</u> <u>in Class</u> <u>(Implied Decimal)</u> <u>(xx.xxx miles)</u>
a.	0.0-0.4	<u>1</u>	<u>0.13</u>
b.	0.5-1.4	-----	-----
c.	1.5-2.4	-----	-----
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	<u>1</u>	<u>0.06</u>
k.	14.0-19.4	-----	-----
l.	19.5-27.9	-----	-----
m.	28+	-----	-----



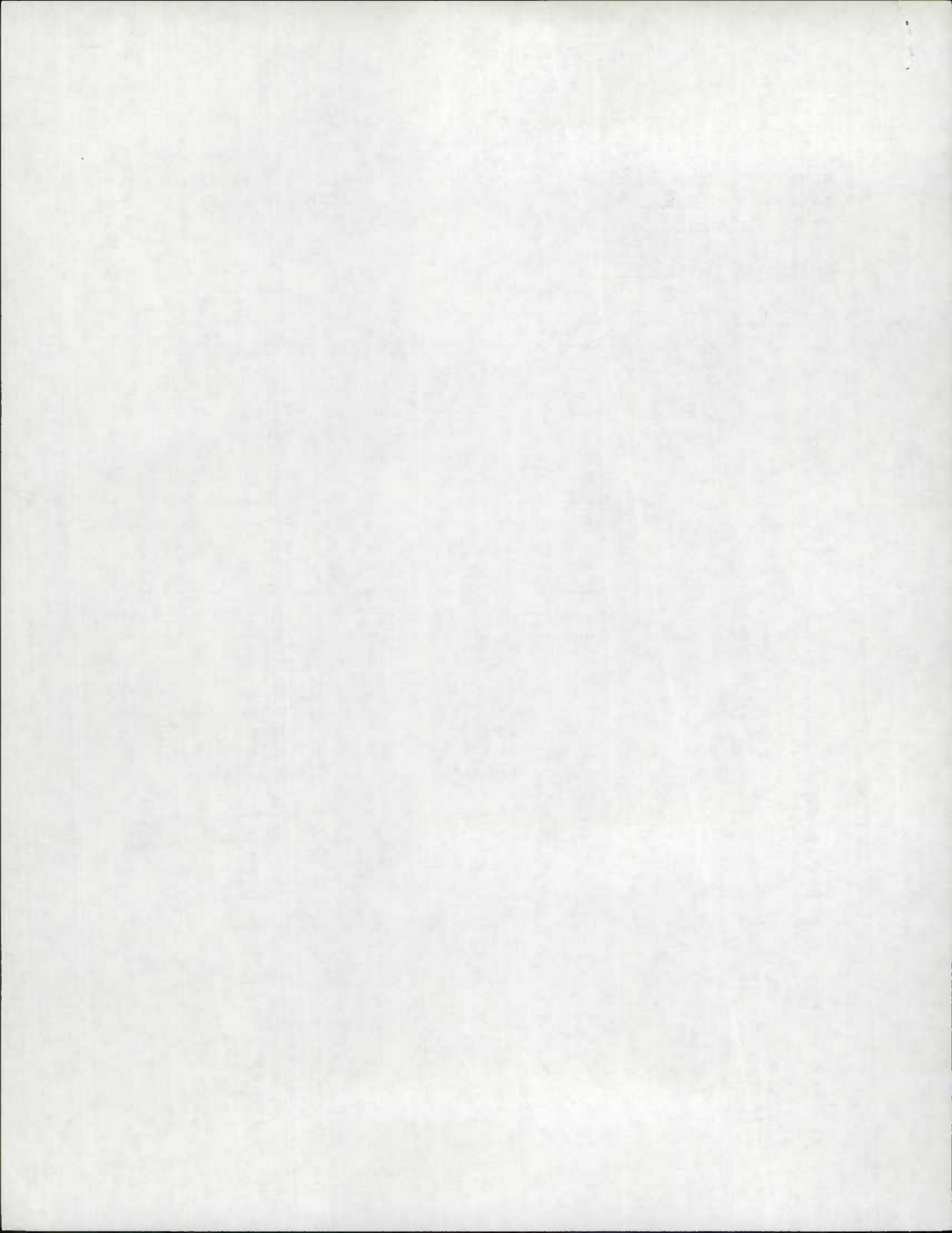
Vertical Curve Section

<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	529	-0.6	
529	1005	+6.0	

	<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	1	0.10
c.	2.5-4.4	—	—
d.	4.5-6.4	1	0.09
e.	6.5-8.4	—	—
f.	8.5-	—	—



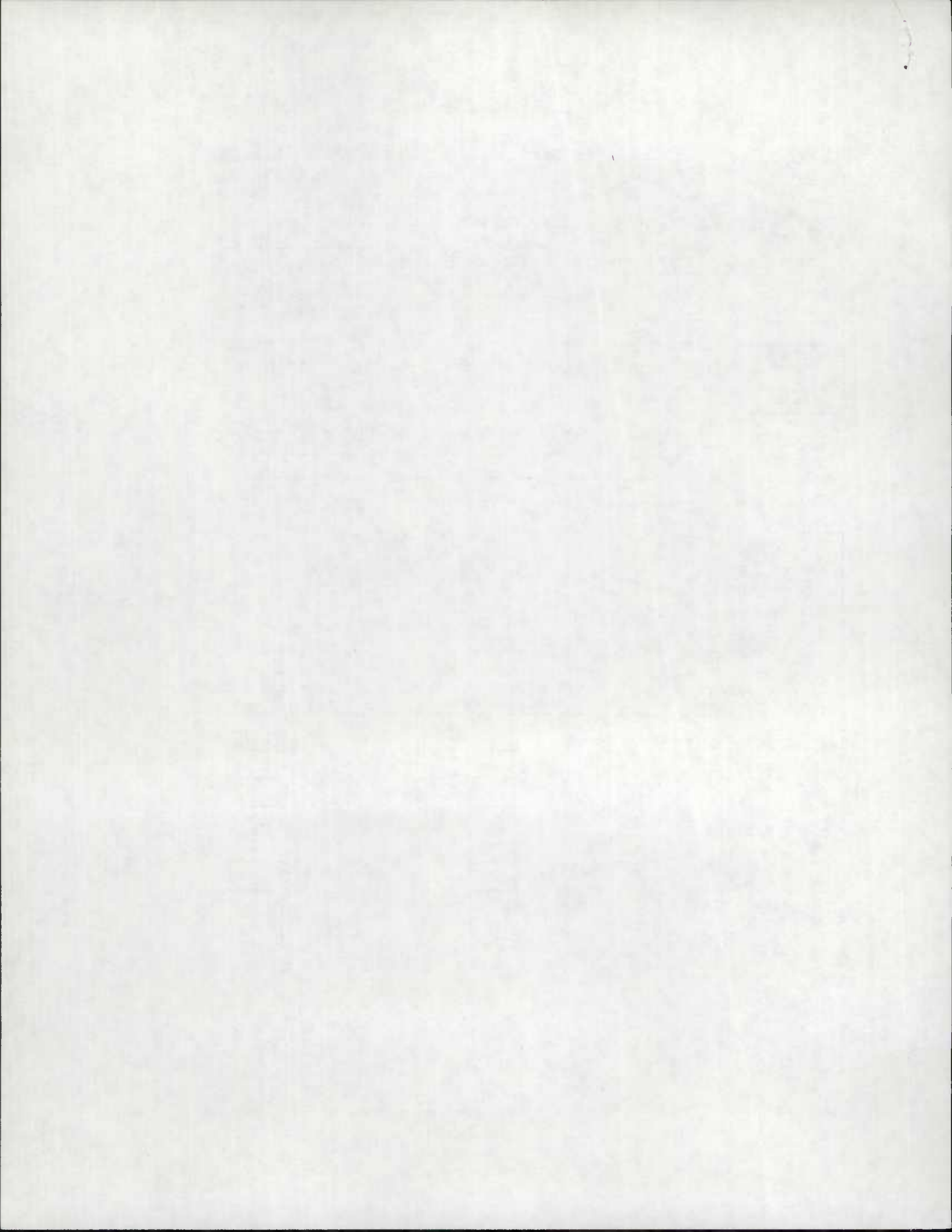




Vertical Curve Section

<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	239	+6.0	-----
239	925	<del>0</del>	-----
925	1691	+4.8	-----
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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	<u>1</u>	<u>0.12</u>
b.	0.5-2.4	---	---
c.	2.5-4.4	---	---
d.	4.5-6.4	<u>2</u>	<u>0.20</u>
e.	6.5-8.4	---	---
f.	8.5-	---	---





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

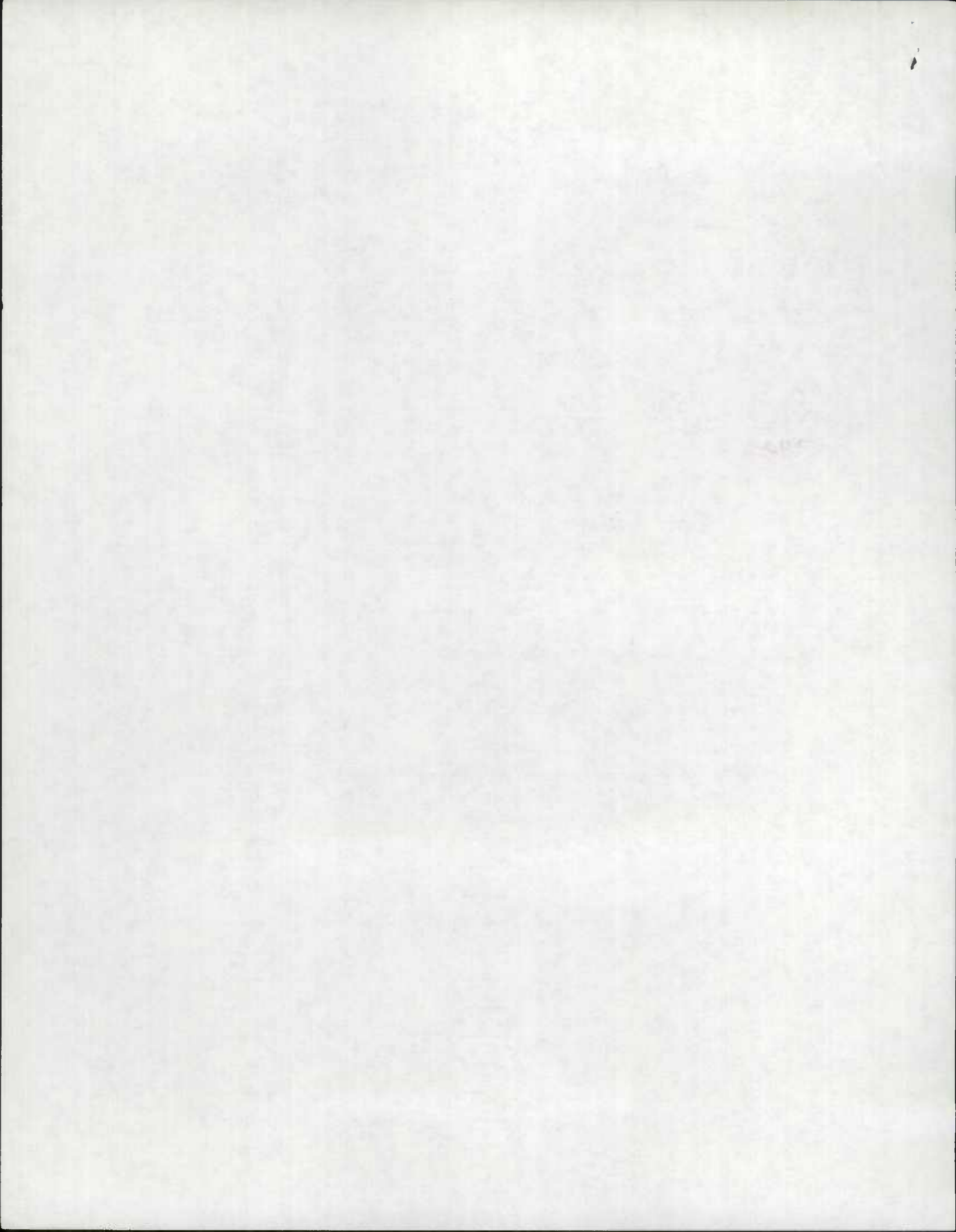
Route No: CO 0187  
 Sample No: 09  
 County: Cecil

Starting Mile Pt: 0.00  
 Ending Mile Pt: 0.46  
(0.46)

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> R <u>1820</u> <del>2222</del>	<u>1820</u> <u>2429</u>	<u>100</u> <u>99.9</u>	<u>0</u> <u>1.3</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	<u>1</u>	<u>0.34</u>
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	<u>1</u>	<u>0.12</u>
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.	28+	-----	-----

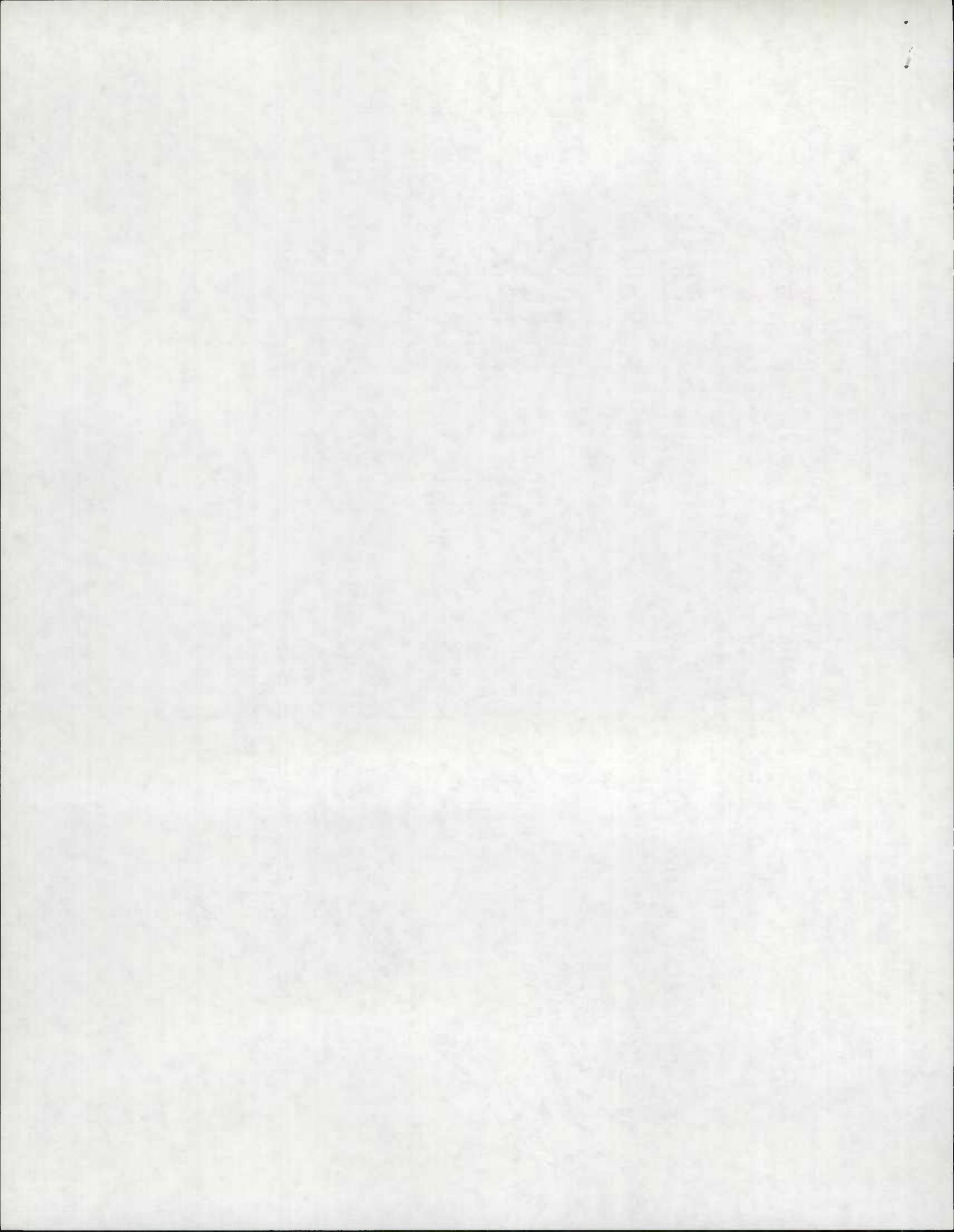


### Vertical Curve Section

<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	828	+ 1.0	-----
828	1426	2 %	-----
1426	9429	- 5.2	-----
<del>2425</del>	-----	<del>-----</del>	-----
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Grade Classes by Gradient (Percent)	Number of Grades (Right- Justified)	Length of Grades in Class (Implied Decimal) (xx.xxx miles)
a. 0.0-0.4	1	0.11
b. 0.5-2.4	-----	-----
c. 2.5-4.4	-----	-----
d. 4.5-6.4	1	0.19
e. 6.5-8.4	-----	-----
f. 8.5-	-----	-----

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

Route No: CO 0187  
Sample No: 10  
County: Cecil

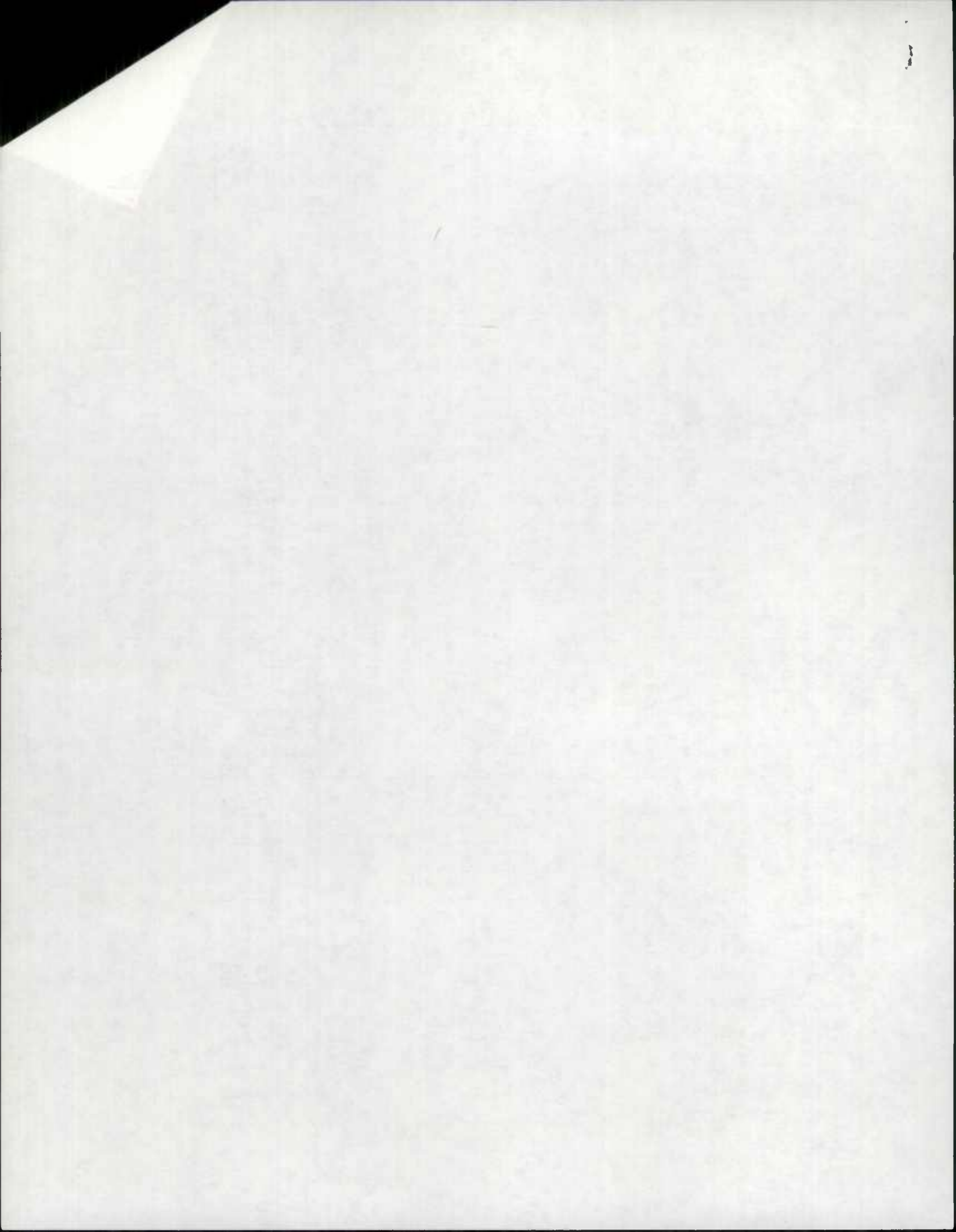
Starting Mile Pt: 0.4  
Ending Mile Pt: 0.7

(0.29)

Horizontal Curve Section

	<u>Start Pt.</u> (in ft.)	<u>End Pt.</u> (in ft.)	<u>Chord</u> <u>length</u> (/100ft)	<u>Central</u> <u>Ordi. Length</u> (/100ft)	<u>Length of Total</u> <u>Curve in(x.xxmile)</u>
R	<u>0</u>	<u>437</u>	<u>± 99.9</u>	<u>1.3</u>	-----
	<u>437</u>	<u>1520</u>	<u>100</u>	<u>0</u>	-----
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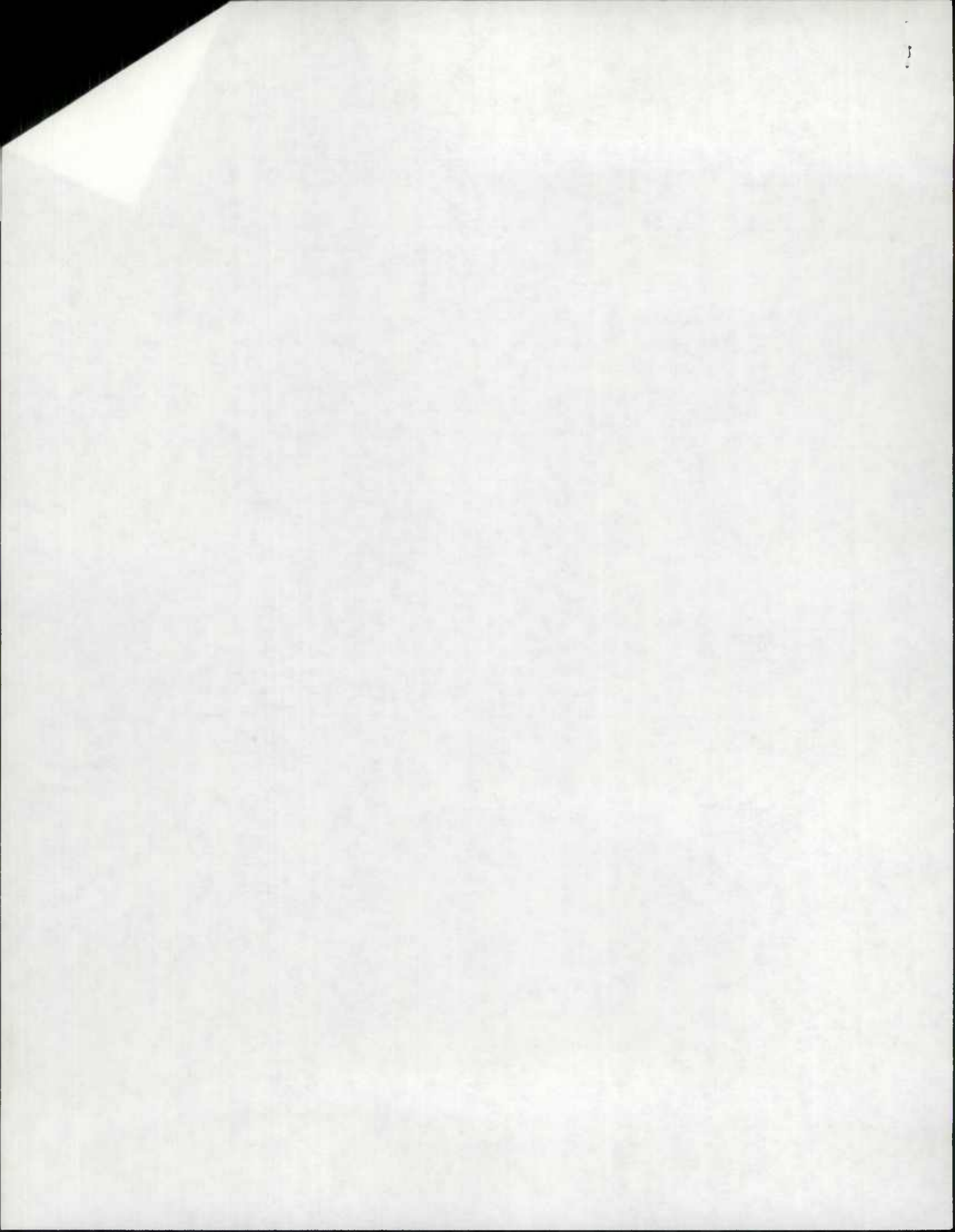
	<u>Curve</u> <u>Classes</u> <u>by</u> <u>Degree of</u> <u>Curvature</u>	<u>Number of</u> <u>Curves</u> <u>(Right-</u> <u>Justified)</u>	<u>Length</u> <u>of Curves</u> <u>in Class</u> <u>(Implied Decimal)</u> <u>(xx.xxx miles)</u>
a.	0.0-0.4	<u>1</u>	<u>0.21</u>
b.	0.5-1.4	-----	-----
c.	1.5-2.4	-----	-----
d.	2.5-3.4	-----	-----
e.	3.5-4.4	-----	-----
f.	4.5-5.4	-----	-----
g.	5.5-6.9	<u>1</u>	<u>0.08</u>
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.	28+	-----	-----



Vertical Curve Section

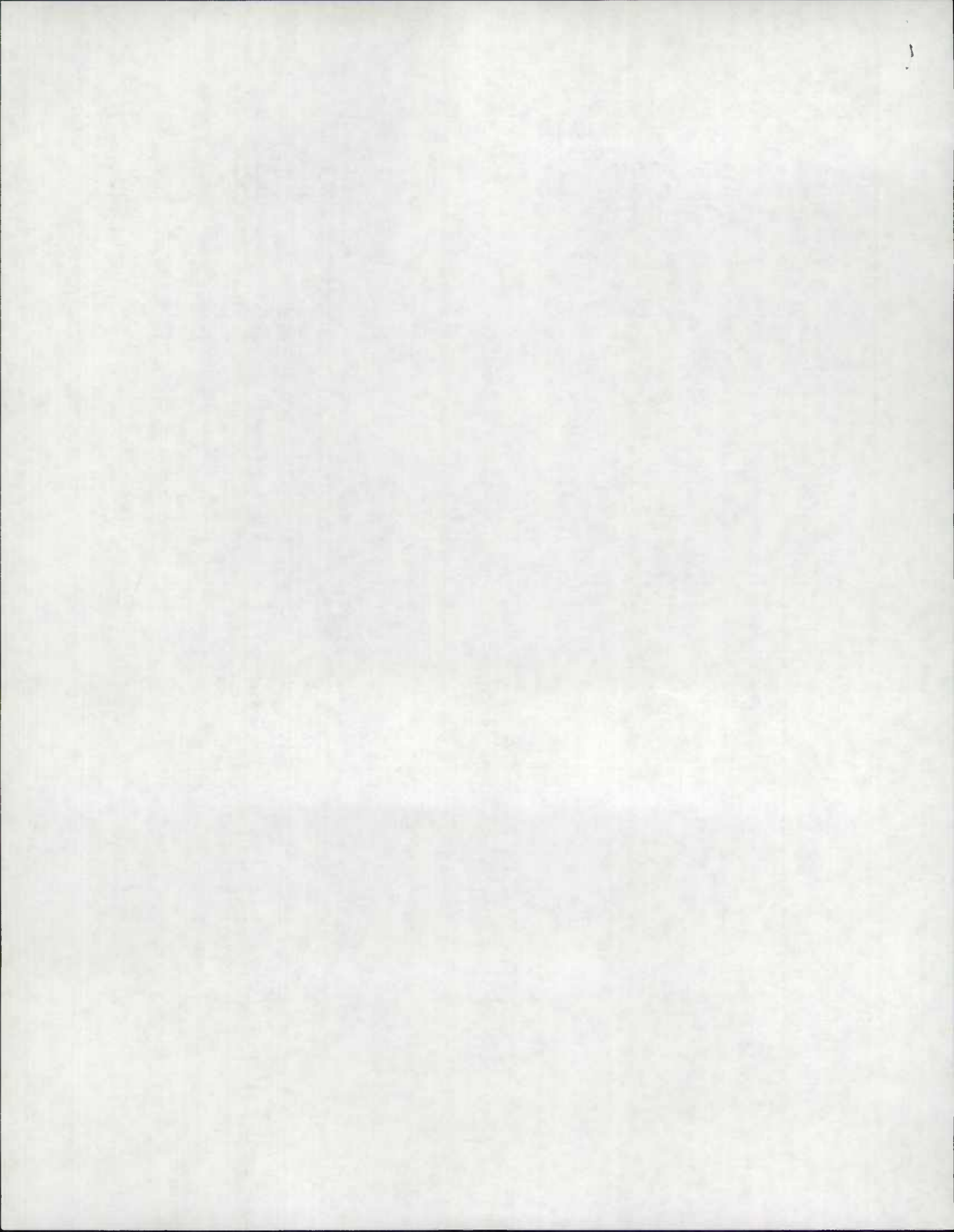
<u>Start Pt.</u> (in ft.)	<u>End Pt.</u> (in ft.)	<u>Gradient Percent</u>	<u>Length of Curve</u> (in x.xx miles)
0	1405	+4.0	
1425	1520	0%	
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	<u>Grade Classes by Gradient (Percent)</u>	<u>Number of Grades (Right-Justified)</u>	<u>Length of Grades in Class (Implied Decimal) (xx.xxx miles)</u>
a.	0.0-0.4	<u>1</u>	<u>0.02</u>
b.	0.5-2.4	-----	-----
c.	2.5-4.4	<u>1</u>	<u>0.27</u>
d.	4.5-6.4	-----	-----
e.	6.5-8.4	-----	-----
f.	8.5-	-----	-----





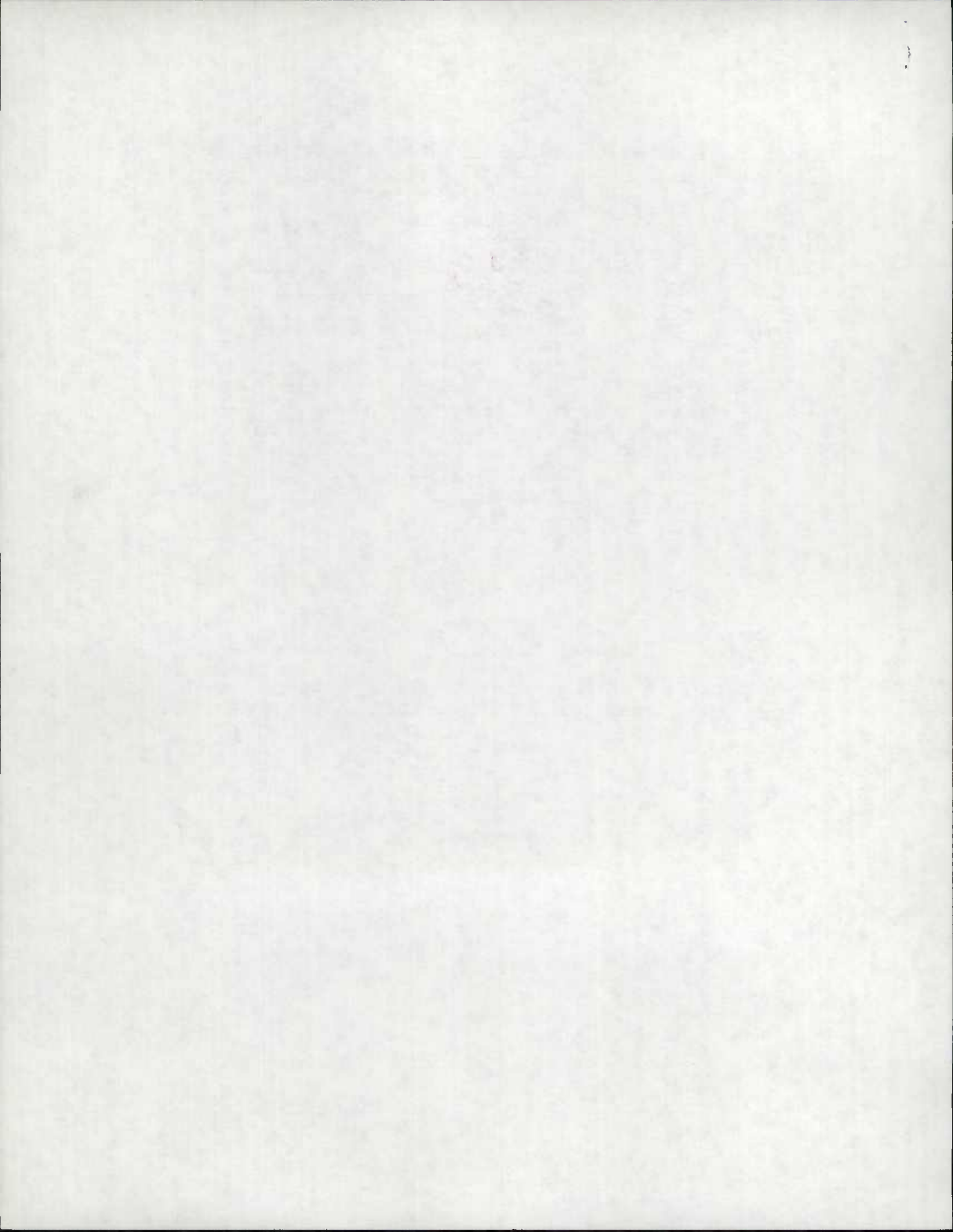




Vertical Curve Section

<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	422	0%	
422	851	-2.9	
851	2335	+1.0	
2235	2566	-5.8	
2566	2990	<del>0%</del>	
2990	3960	-8.0	

	<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	<u>2</u>	<u>0.16</u>
b.	0.5-2.4	<u>1</u>	<u>0.28</u>
c.	2.5-4.4	<u>1</u>	<u>0.08</u>
d.	4.5-6.4	<u>1</u>	<u>0.05</u>
e.	6.5-8.4	<u>1</u>	<u>0.18</u>
f.	8.5-	<u>    </u>	<u>    </u>



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

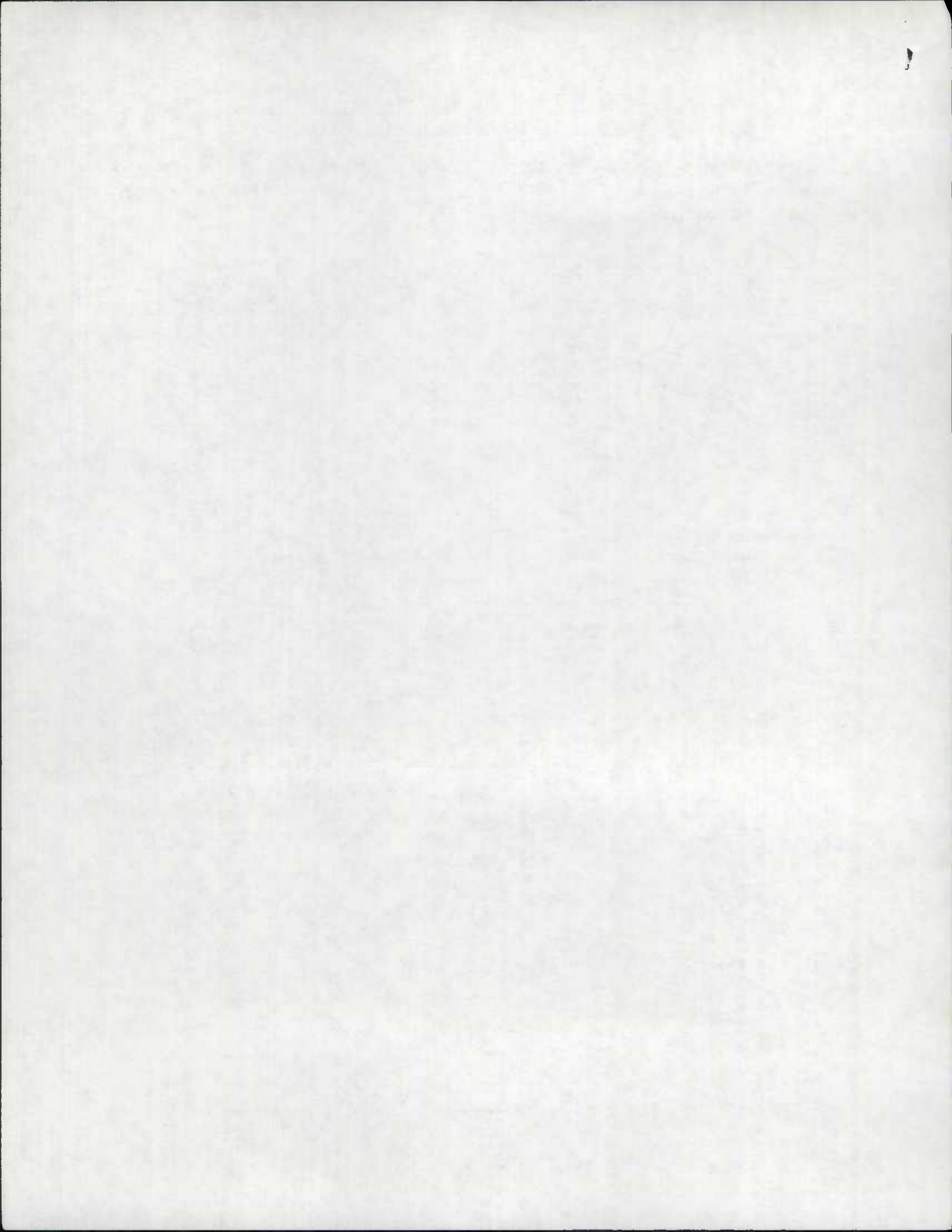
Route No: MU 0052 052  
 Sample No: 12  
 County: CECIL

Starting Mile Pt: 0.00  
 Ending Mile Pt: 0.06

Horizontal Curve Section

<u>Start Pt.</u> (in ft.)	<u>End Pt.</u> (in ft.)	<u>Chord</u> <u>length</u> (/100ft)	<u>Central</u> <u>Ord1. Length</u> (/100ft)	<u>Length of Total</u> <u>Curve in(x.xxmile)</u>
<u>0</u>	<u>315</u>	<u>100</u>	<u>0</u>	-----
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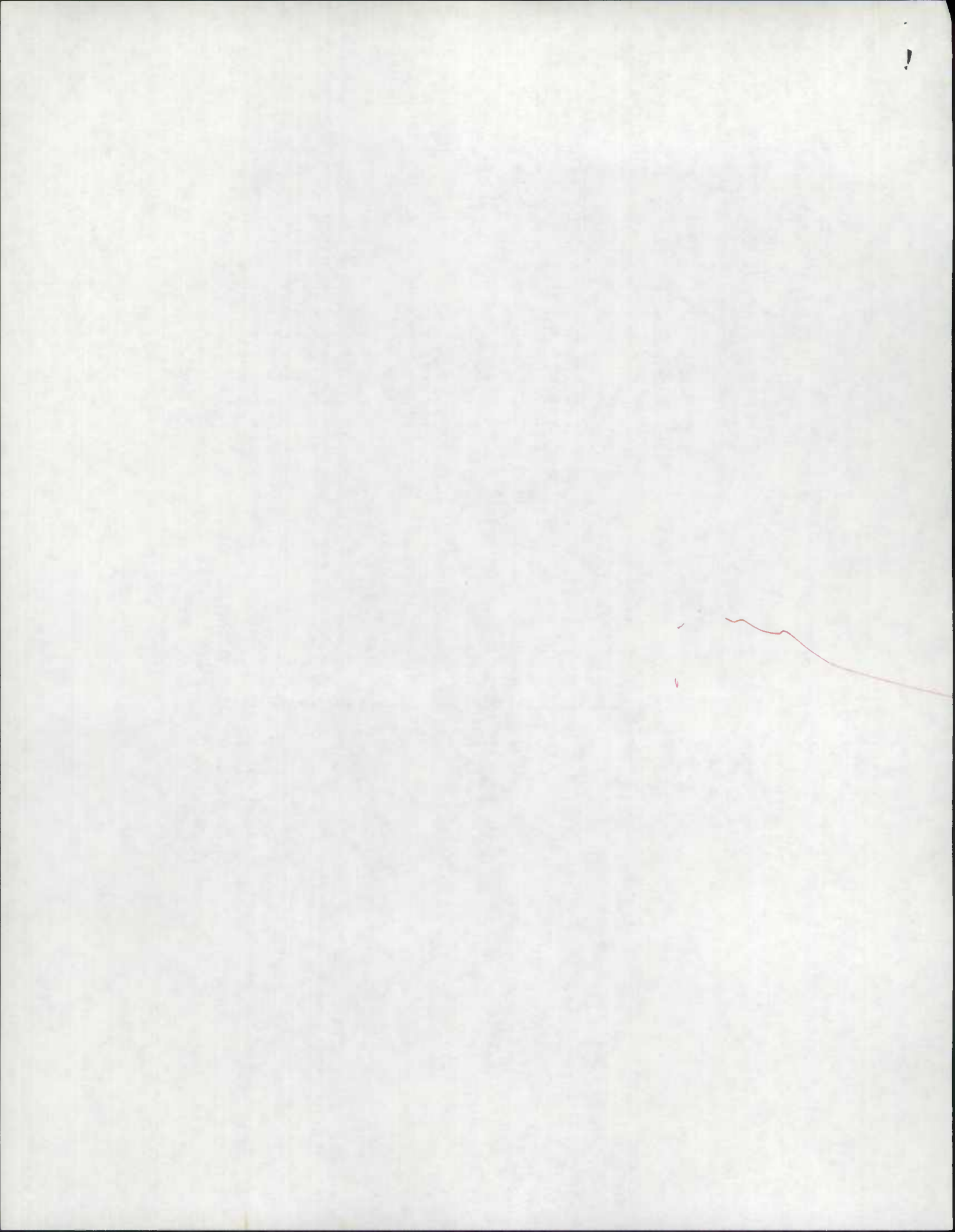
	<u>Curve</u> <u>Classes</u> <u>by</u> <u>Degree of</u> <u>Curvature</u>	<u>Number of</u> <u>Curves</u> <u>(Right-</u> <u>Justified)</u>	<u>Length</u> <u>of Curves</u> <u>in Class</u> <u>(Implied Decimal)</u> <u>(xx.xxx miles)</u>
a.	0.0-0.4	<u>1</u>	<u>0.06</u>
b.	0.5-1.4	-----	-----
c.	1.5-2.4	-----	-----
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.	28+	-----	-----



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	315	0'1.	
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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	1	0.06
b.	0.5-2.4	-----	-----
c.	2.5-4.4	-----	-----
d.	4.5-6.4	-----	-----
e.	6.5-8.4	-----	-----
f.	8.5-	-----	-----





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

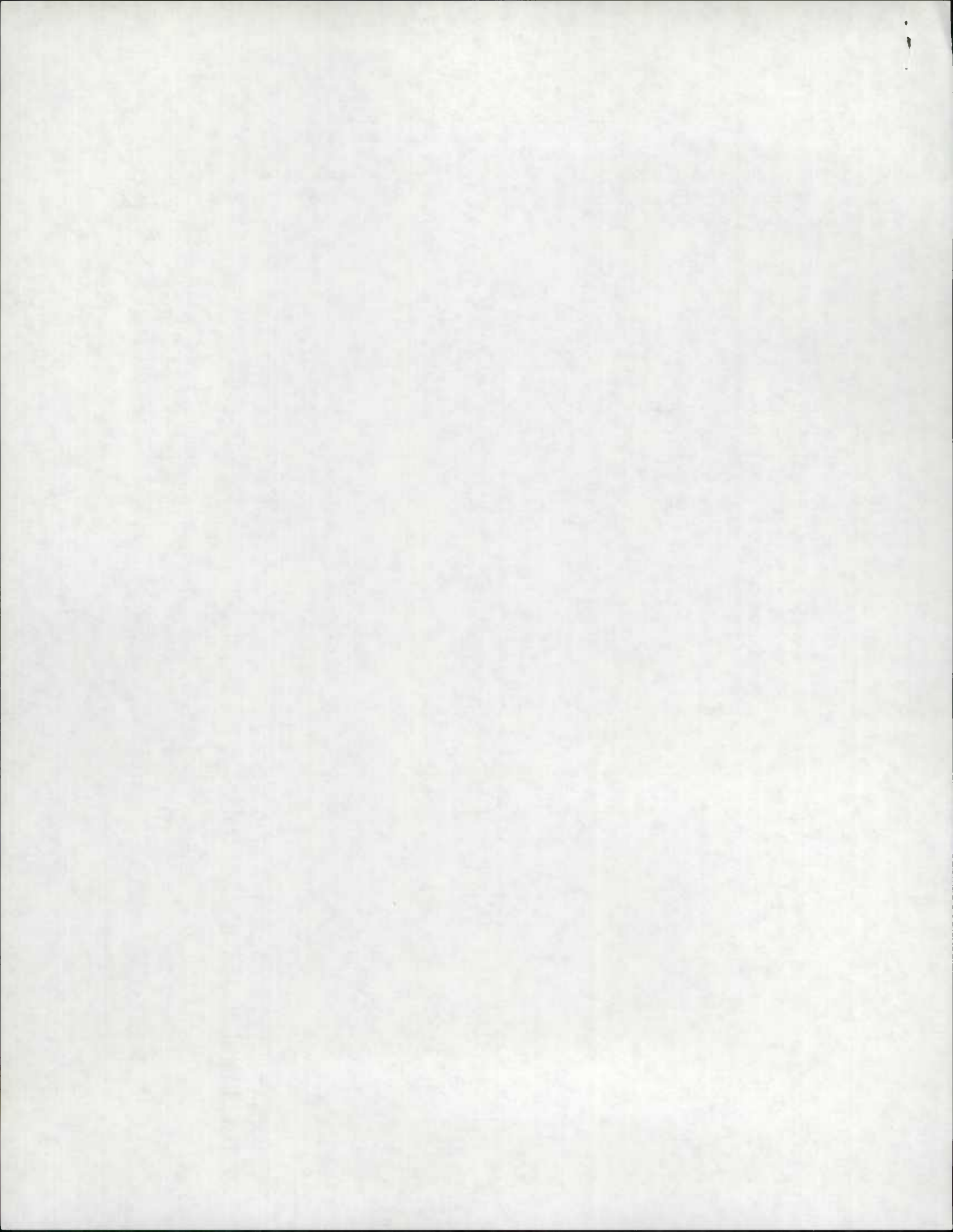
Route No: MU 0300 052  
 Sample No: 13  
 County: Cecile

Starting Mile Pt: 2.64  
 Ending Mile Pt: 2.88  
 (0.24)

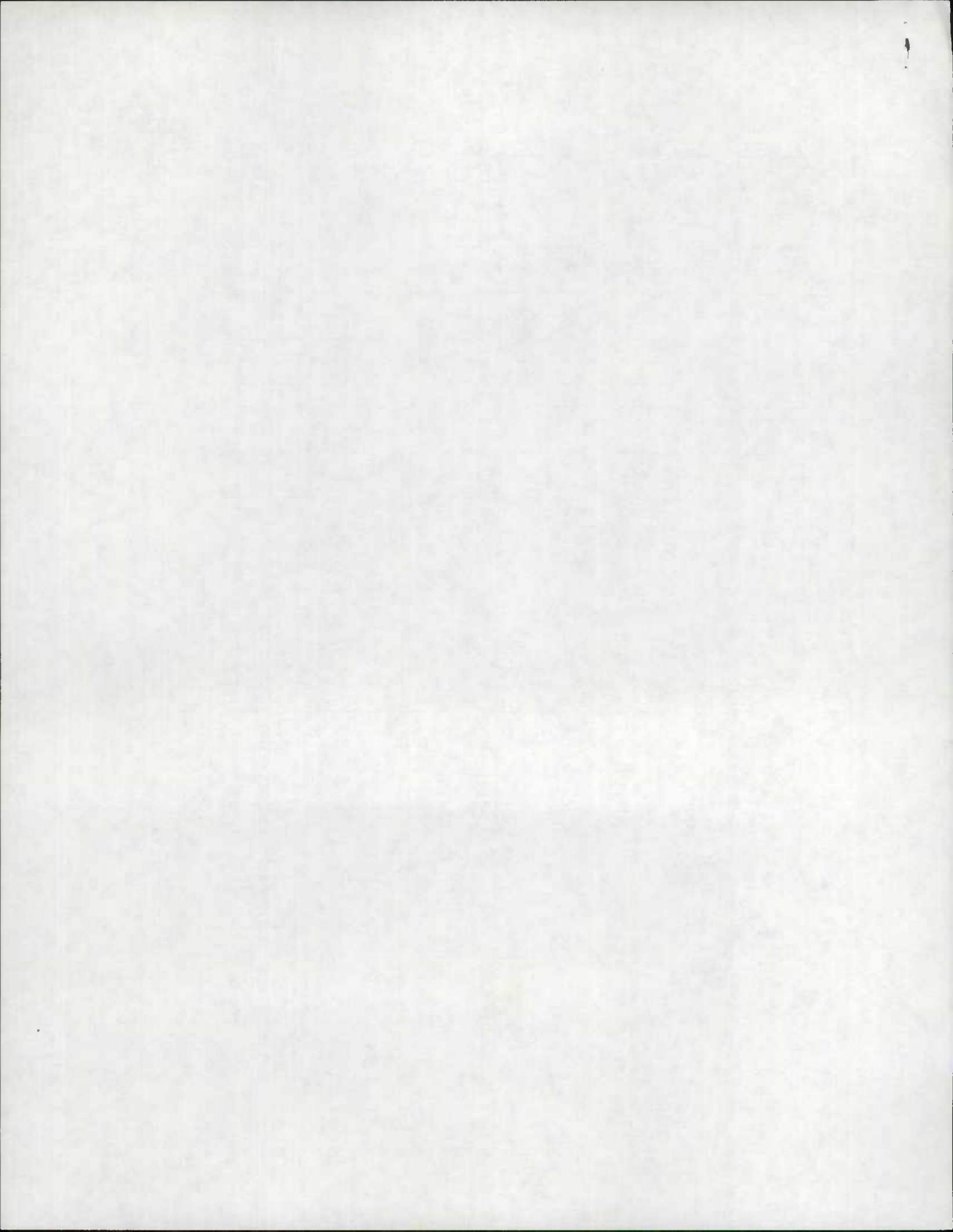
Horizontal Curve Section

<u>Start Pt.</u> (in ft.)	<u>End Pt.</u> (in ft.)	<u>Chord</u> <u>length</u> (/100ft)	<u>Central</u> <u>Ord. Length</u> (/100ft)	<u>Length of Total</u> <u>Curve in(x.xxmile)</u>
<u>0</u>	<u>1266</u>	<u>100</u>	<u>0</u>	
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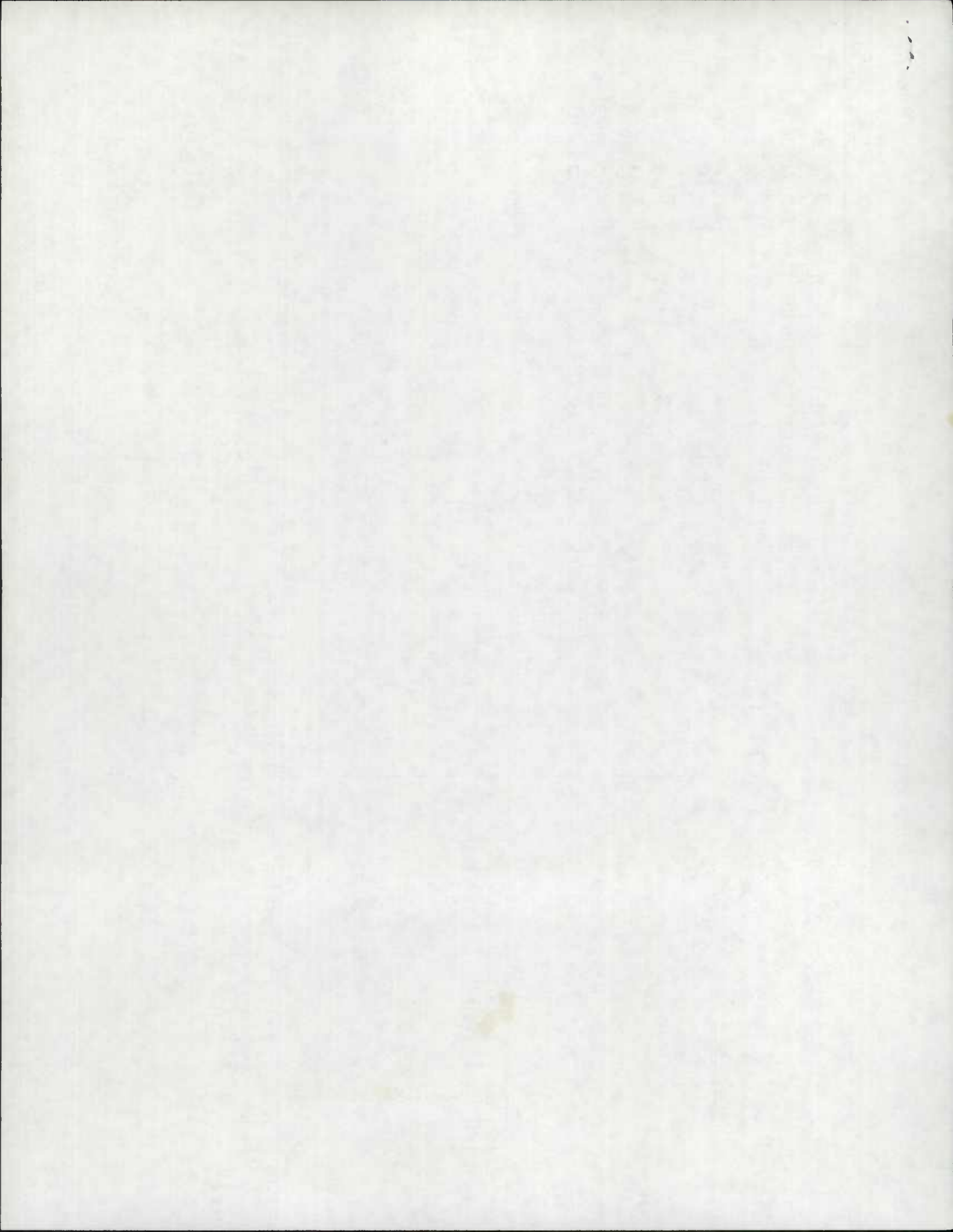
	<u>Curve</u> <u>Classes</u> <u>by</u> <u>Degree of</u> <u>Curvature</u>	<u>Number of</u> <u>Curves</u> <u>(Right-</u> <u>Justified)</u>	<u>Length</u> <u>of Curves</u> <u>in Class</u> <u>(Implied Decimal)</u> <u>(xx.xxx miles)</u>
a.	0.0-0.4	<u>1</u>	<u>0.24</u>
b.	0.5-1.4	-----	-----
c.	1.5-2.4	-----	-----
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.	28+	-----	-----



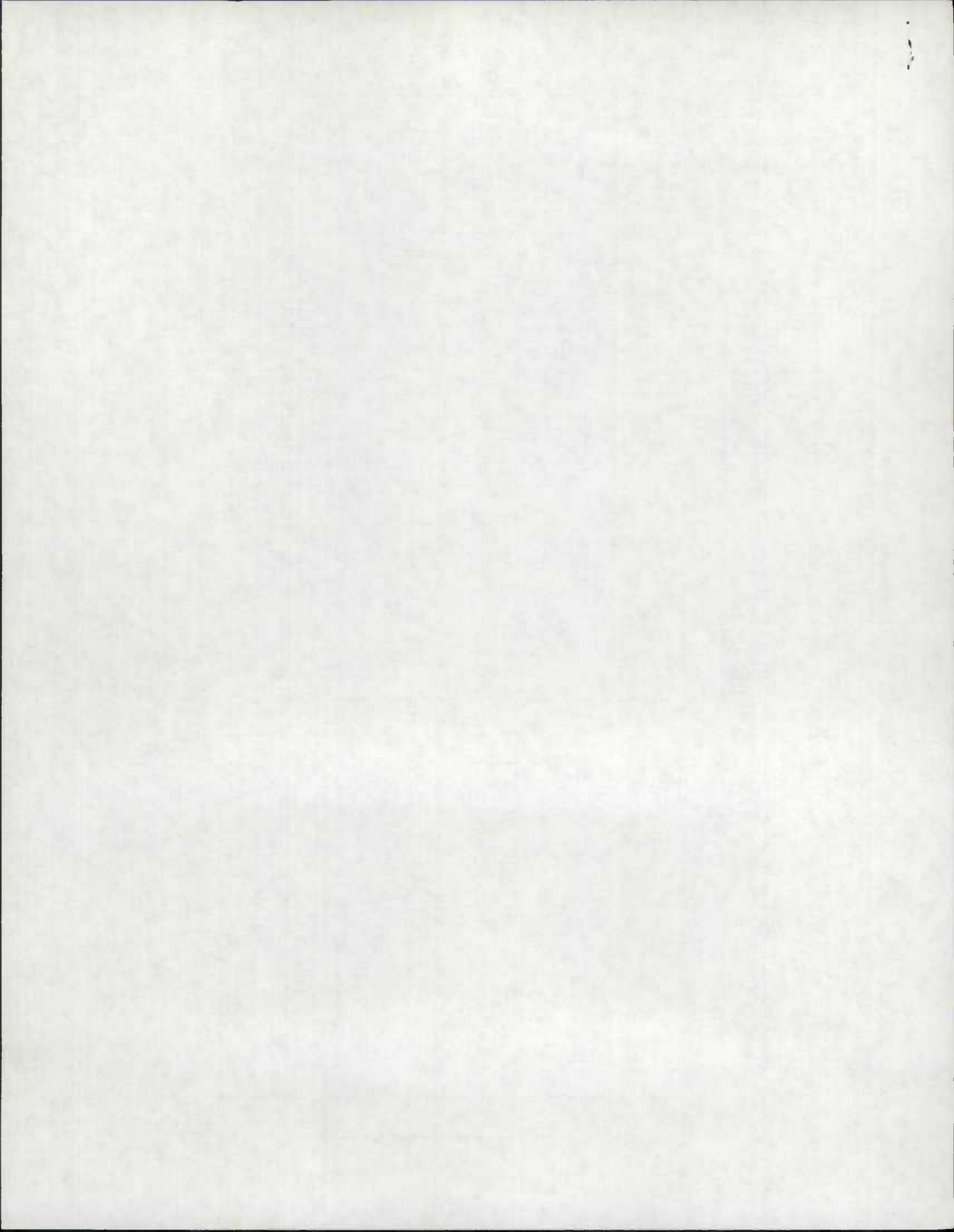






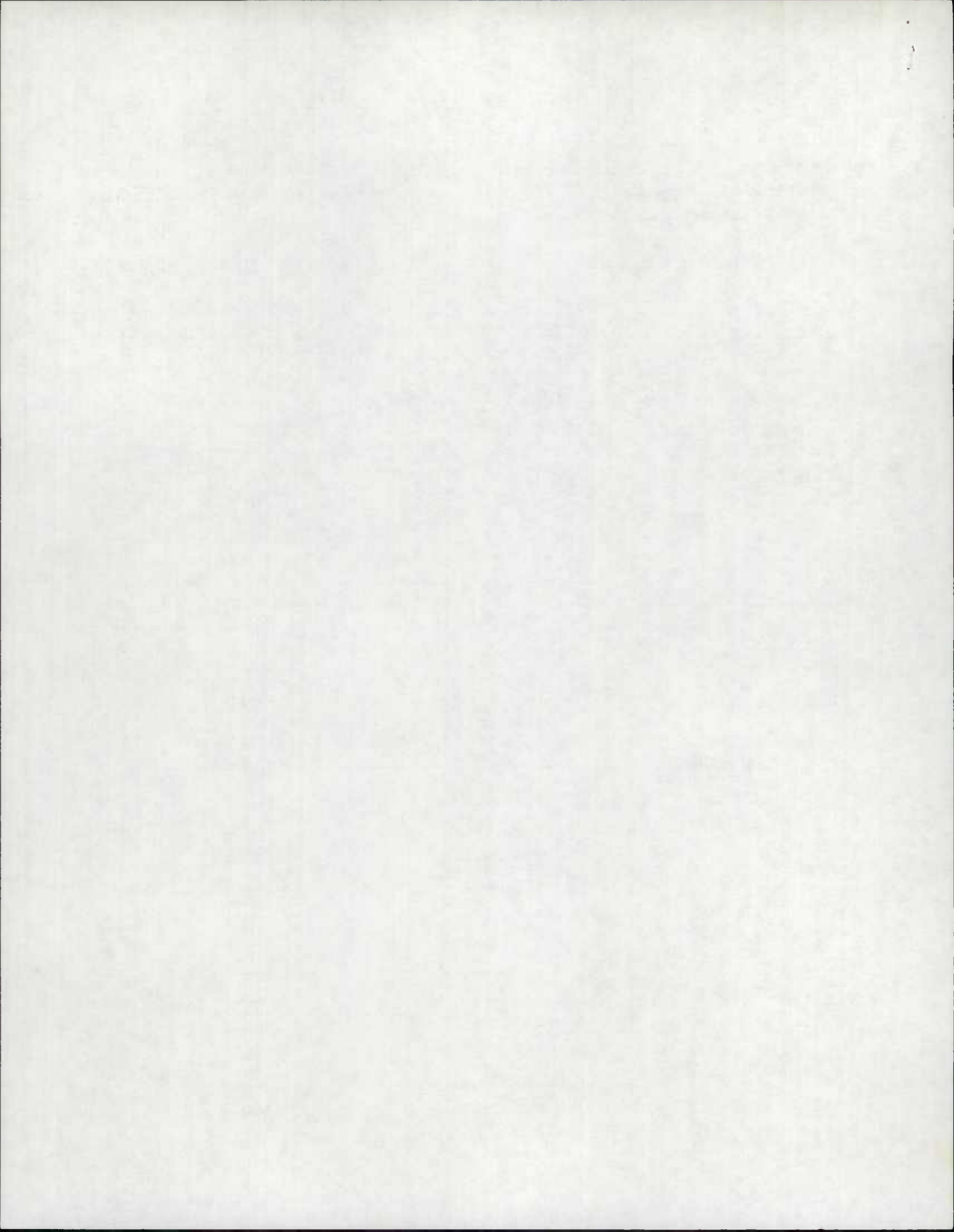




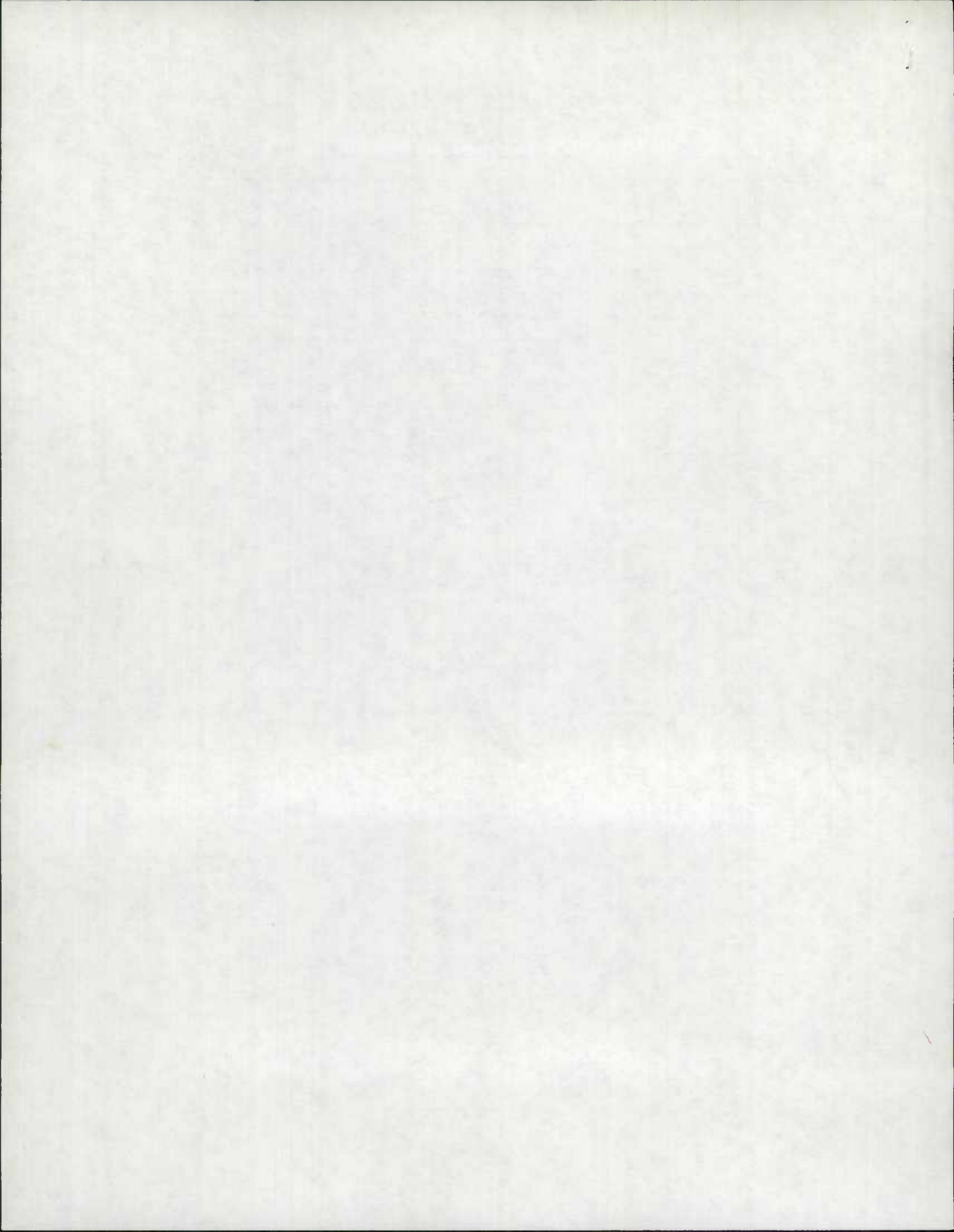












CURVE - GRADE DATA COLLECTION  
NON - STATE ROADS - FY - 1992

Route No: MU 0370 052  
 Sample No: 17  
 County: Calh.

Starting Mile Pt: 0.50  
 Ending Mile Pt: 0.53

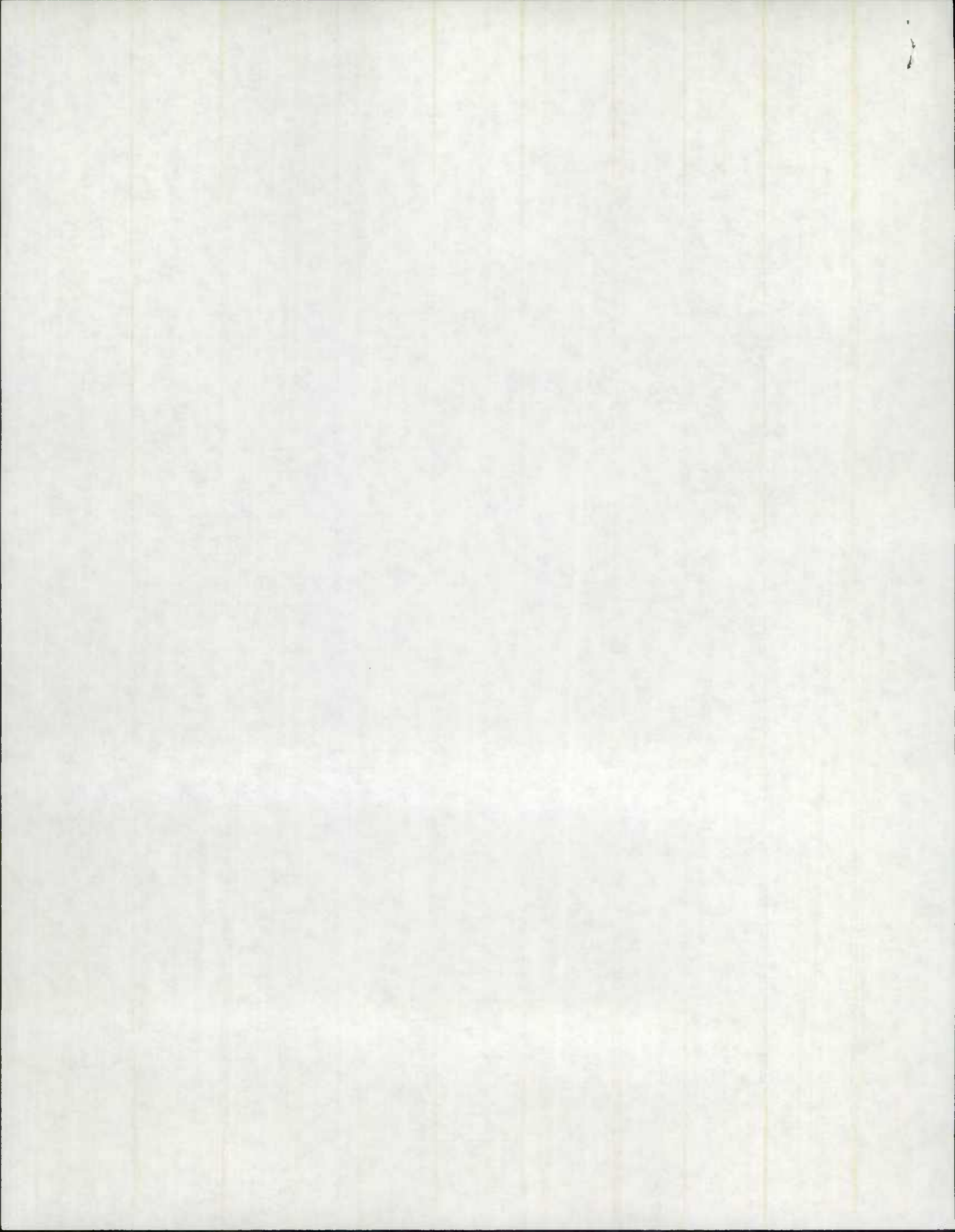
(0.03)

Horizontal Curve Section

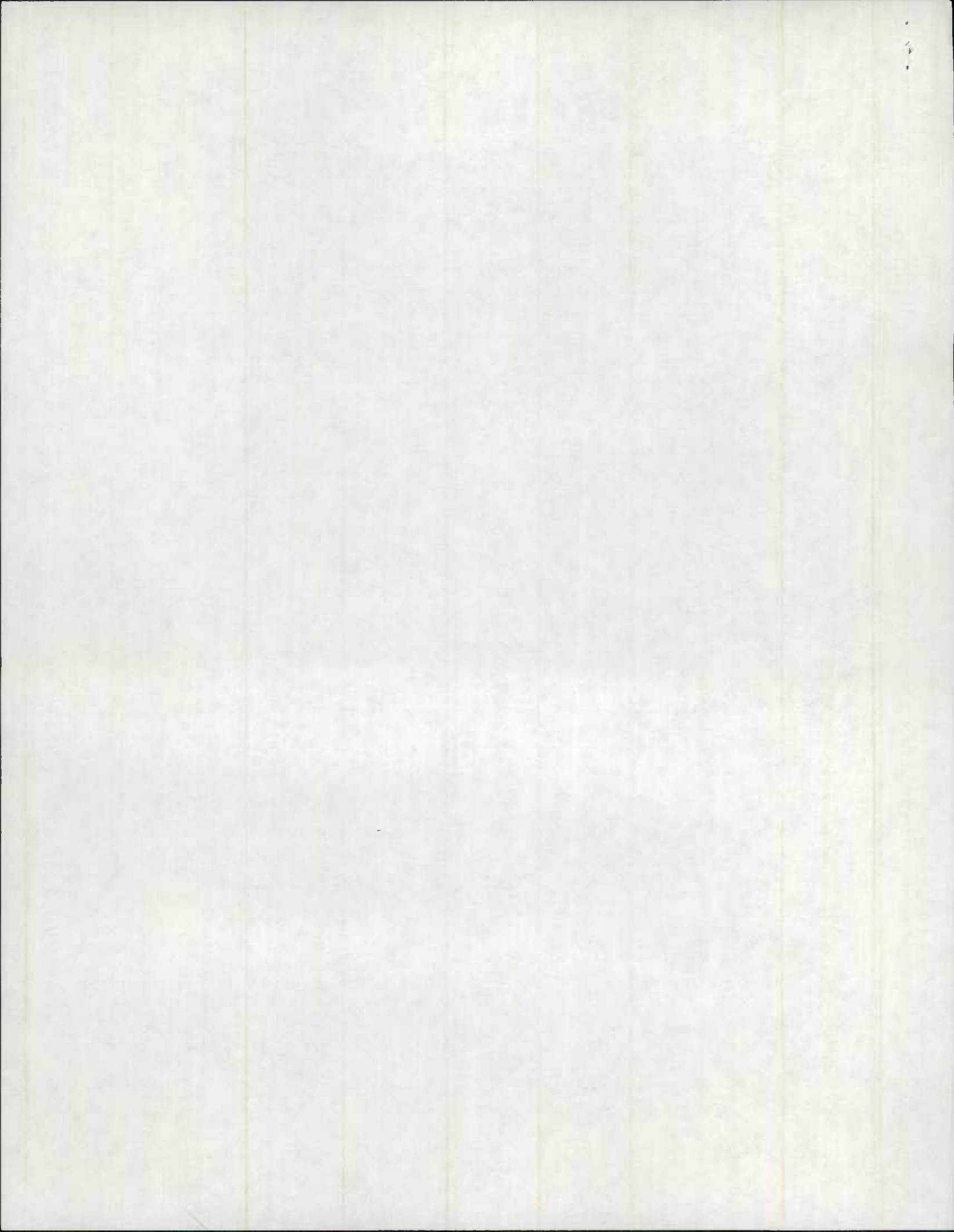
<u>Start Pt.</u> (in ft.)	<u>End Pt.</u> (in ft.)	<u>Chord</u> <u>length</u> (/100ft)	<u>Central</u> <u>Ordi. Length</u> (/100ft)	<u>Length of Total</u> <u>Curve in(x.xxmile)</u>
<u>0</u>	<u>158</u>	<u>100</u>	<u>0</u>	-----
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	<u>Curve</u> <u>Classes</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	<u>1</u>	<u>0.03</u>
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.	28+	-----	-----

*Handwritten notes in blue ink:*  
 17  
 100  
 0.03  
 7/20/92  
 J. G. [unclear]

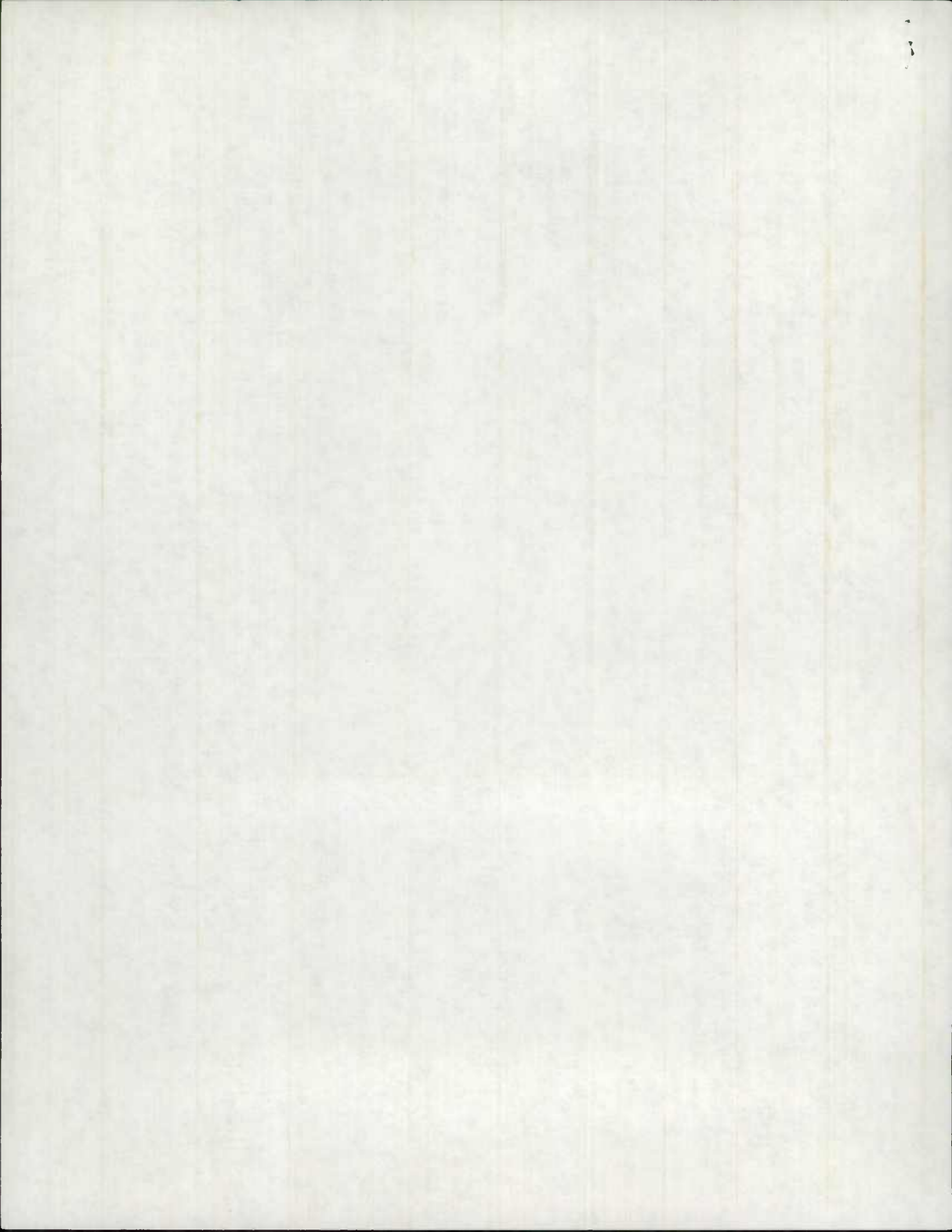












Vertical Curve Section

<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	134	+2.8%	
134	440	-2.5	
440	638	+1.9	

	<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	<u>    </u>	<u>    </u>
b.	0.5-2.4	<u>  1  </u>	<u>  0.10  </u>
c.	2.5-4.4	<u>  2  </u>	<u>  0.21  </u>
d.	4.5-6.4	<u>    </u>	<u>    </u>
e.	6.5-8.4	<u>    </u>	<u>    </u>
f.	8.5-	<u>    </u>	<u>    </u>





