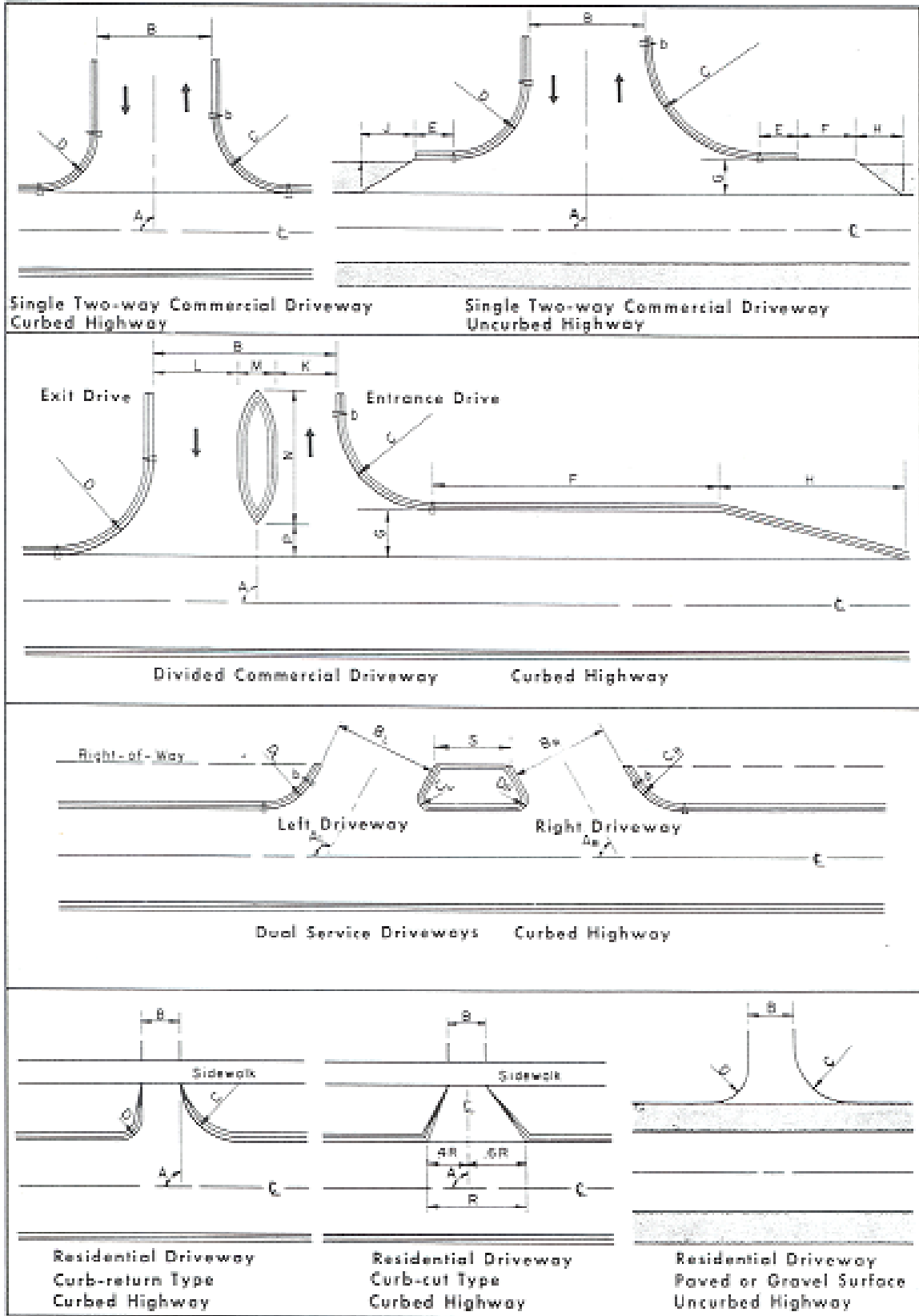


# APPENDIX B

## Figure 1

## Design Features



SKETCHES ARE NOT DRAWN TO SCALE

**Commercial driveways- alteration of dimensions.**

If the highway carries one-way traffic, the dimensions given in Tables 1 and 2 may be altered so that the prohibited movements are discouraged. If the driveway system is on the left-hand side of a one-way highway, the dimensions used shall be based on the same principles as used on right-hand side driveways.

**Commercial driveways- right-turn lanes.**

The applicant shall provide right-turn lanes or tapers as part of a commercial driveway system if the Road Commission determines that such right-turn lanes or tapers are required to minimize congestion or hazard on the highway caused by vehicles entering the applicant's driveways. A right-turn lane shall be preceded by a taper. The design feature dimensions of a right-turn lane and taper shall conform to those given in table 1.

**TABLE 1**

COMMERCIAL RIGHT-TURN LANE AND TAPERS					
Design Features		Curbed Highway		Uncurbed Highway	
		Standard	Range	Standard	Range
Curb Ending	E	not applicable		10 ft	no range
Right-turn Lane Length	F	as determined by the Road Commission			
Right-turn Lane Width	G	12 ft	10 to 15 ft	12 ft	10 to 15 ft
Entering Taper	H	150 ft	50 to 150 ft	150 ft	50 to 150 ft
Exiting Taper	J	not applicable		50 ft	50 to 150 ft
The standard shall be used unless engineering judgment determines that another dimension within the range is more suitable for a particular site or special condition and is approved by the Commission.					

**Two-way commercial driveways.**

The design feature dimensions of a two-way commercial driveway shall conform to those given in table 2.

## TABLE 2

TWO-WAY COMMERCIAL DRIVEWAY					
Design		Curbed Highway		Uncurbed Highway	
Features		Standard	Range	Standard	Range
<b>Intersecting Angle</b>	A	90°	60 to 120°	90°	60 to 120°
<b>Driveway Width</b>	B	30 ft	12 to 50 ft	30 ft	18 to 50 ft
<b>Entering Radius</b>	C	25 ft	15 to 50 ft	30 ft	15 to 50ft
<b>Exiting Radius</b>	D	25 ft	15 to 50 ft	30 ft	15 to 50 ft
<p>The standard shall be used unless engineering judgment determines that another dimension within the range is more suitable for a particular site or special condition and is approved by the Road Commission.</p>					

### One-way commercial driveways.

The design feature dimensions of a one-way commercial driveway shall conform to those given in table 3.

## TABLE 3

ONE-WAY COMMERCIAL DRIVEWAY					
Design		Curbed Highway		Uncurbed Highway	
Features		Standard	Range	Standard	Range
<b>Distance Between Driveways</b>	S	not applicable	40 to 500 ft	not applicable	40 to 500 ft
<b>Intersecting Angle</b>	A	90	60 to 120°	90°	60 to 120°
<b>Driveway Width</b>	B	16 ft	16 to 30 ft	16 ft	16 to 30 ft
<b>Entering Radius</b>	CI	20 ft	15 to 50 ft	20 ft	15 to 50 ft
<b>Exiting Radius</b>	DI	20 ft	15 to 50 ft	25 ft	15 to 50 ft
<b>Entering Radius</b>	CO	20 ft	15 to 50 ft	25 ft	15 to 50 ft
<b>Exiting Radius</b>	D <sub>o</sub>	20 ft	15 to 50 ft	25 ft	15 to 50 ft
<p>The standard shall be used unless engineering judgment determines that another dimension within the range is more suitable for a particular site or special condition and is approved by the Road Commission.</p>					

### Divided commercial driveways.

A divided commercial driveway shall have a curbed island separating the entrance drive and the exit drive. The radii forming the edges on this island shall be designed to accommodate the largest vehicle that will normally use the driveway. The minimum area of the island shall be 50 square feet. The design feature dimensions of a divided commercial driveway shall conform to those given in table 4.

## TABLE 4

DIVIDED COMMERCIAL DRIVEWAY					
Design		Curbed Highway		Uncurbed Highway	
Features		Standard	Range	Standard	Range
Intersecting Angle	A	90°	75 to 105°	90°	75 to 105°
Driveway Width	B	48 ft	42 to 90 ft	48 ft	42 to 90 ft
Entering Radius	C	25 ft	15 to 50 ft	25 ft	5 to 50 ft
Exiting Radius	D	25 ft	15 to 50 ft	25 ft	5 to 50 ft
Entrance Drive Width	K	16 ft	16 to 30 ft	16 ft	16 to 30 ft
Exit Drive Width	L	22 ft	16 to 30 ft	22 ft	16 to 30 ft
Island Width	M	10 ft	10 to 30 ft	10 ft	10 to 30 ft
Nose Offset	P	8 ft	2 to 10 ft	14 ft	12 to 17 ft
island Length	N	35 ft	20 to 150 ft	35 ft	20 to 150 ft

The standard shall be used unless engineering judgment determines that another dimension within the range is more suitable for a particular site or special condition and is approved by the Commission.

### Directional commercial driveways.

A directional commercial driveway is a special case and the driveway shall be designed individually to facilitate the desired turning movements and to discourage prohibited movements. Radii shall be as approved by the Commission, based on the driveway intersecting angle and on the turning path of the largest vehicle that will normally use the driveway.

**Residential driveways, number and separation .**

The number of residential driveways permitted shall be determined as follows:

(a) One residential driveway shall be permitted for each platted lot or for unplatted residential property with less than 100 feet of frontage.

(b) One additional residential driveway may be permitted for residential property where frontage exceeds 100 feet.

(c) Two residential driveways may be permitted on the same property, in lieu of the requirements of paragraph (b), to serve a circle driveway if the frontage of the property is 100 feet or more.

(d) Residential driveways on the same property shall be at least 50 feet apart, center-to-center.

**Residential driveway dimensions.**

The design feature dimensions of a residential driveway shall conform to those given in table 5.

**TABLE 5**

RESIDENTIAL DRIVEWAY					
Design Features		Curbed Highway		Uncurbed Highway	
		Standard	Range	Standard	Range
Intersecting Angle	A	90 <sup>o</sup>	70 to 110	90 <sup>o</sup>	70 to 110 <sup>o</sup>
Driveway Width	B	10 ft	8 to 24 ft	12 ft	10 to 24 ft
Entering Radius	C	5 ft	5 to 10 ft	5 ft	5 to 10 ft
Exiting Radius	D	5 ft	5 to 10 ft	5 ft	5 to 10 ft
Curb Cut	R	20 ft	20 to 60 ft	Not applicable	

The standard shall be used unless engineering judgment determines that another dimension within the range is more suitable for a particular site or special condition and is approved by the Road Commission

### Field entrances and utility structure driveways

(1) One field entrance may be permitted for each 1000 feet of frontage of cultivated land, timber land or undeveloped land. Additional driveways may be permitted when a single driveway will not provide adequate access due to topographic conditions.

(2) The design feature dimensions of a field entrance and of a utility structure driveway shall conform to those given in table 6.

## TABLE 6

FIELD ENTRANCE AND UTILITY STRUCTURE DRIVEWAY					
Design Features		Curbed Highway		Uncurbed Highway	
		Standard	Range	Standard	Range
Intersecting Angle	A	90	70 to 110 <sup>0</sup>	90	70 to 110 <sup>0</sup>
Driveway Width	B	20 ft	15 to 40 ft	20 ft	15 to 40 ft
Entering Radius	C	10 ft	5 to 40 ft	10 ft	5 to 40 ft
Exiting Radius	D	10 ft	5 to 40 ft	10 ft	5 to 40 ft
Curb Cut	R	40 ft	20 to 80 ft	not applicable	
<p>The standard shall be used unless engineering judgment determines that another dimension within the range is more suitable for a particular site or special condition and is approved by the Commission.</p>					