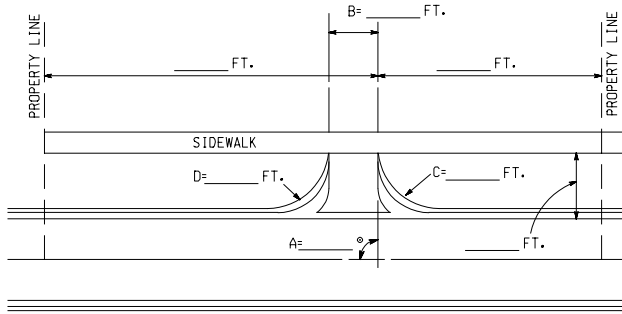



INSTRUCTIONS 1) SHOW DIMENSIONS ON APPLICABLE SKETCH BELOW. SEE TABLE FOR A GUIDE TO PROPER DIMENSIONS. 2) SHOW DISTANCES TO NEAREST FOOT, ANGLES TO NEAREST 10 DEGREES. SKETCHES BELOW ARE NOT TO SCALE. 3) FILL IN SURFACING AND DRAINAGE REQUIREMENTS. 4) ATTACH THIS FORM TO FORM 2205.

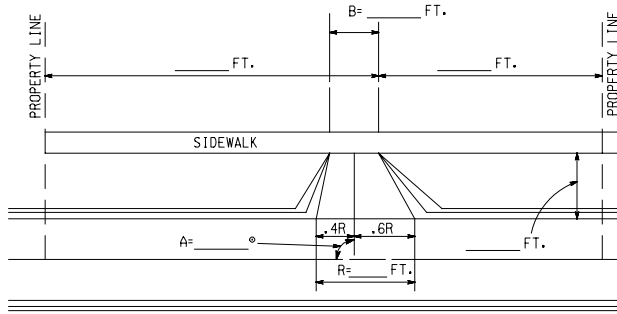
CURBED HIGHWAY

CURB RETURN



SHOW NORTH ARROW  PAVEMENT TYPE _____
WIDTH _____

CURB CUT



SHOW NORTH ARROW  PAVEMENT TYPE _____
WIDTH _____

DRIVEWAY SURFACING

SEE RULES 51, 52, AND 53 ON BACK FOR REQUIREMENTS.
6 IN. * UNREINFORCED PORTLAND CEMENT CONCRETE
2 IN. * BITUMINOUS MIX OVER COMPACTED GRAVEL STABILIZED GRAVEL **
SOD **
OTHER (DESCRIBE) _____

* INCREASE THICKNESS IF TRUCKS OR FREQUENT USE OF DRIVEWAY IS EXPECTED.
** THIS SURFACE TREATMENT NOT PERMITTED ON SOME DRIVEWAYS SEE RULES ON BACK.

DIMENSIONS

RESIDENTIAL DRIVEWAY

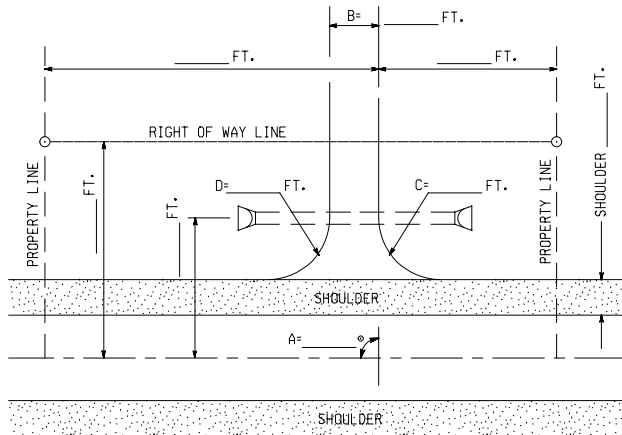
		CURBED HIGHWAY		UNCURBED HIGHWAY	
		STANDARD	RANGE	STANDARD	RANGE
INTERSECTING ANGLE	A	90°	70 TO 110°	90°	70 TO 110°
DRIVEWAY WIDTH	B	10 ft.	8 to 24 ft.	12 ft.	8 to 24 ft.
ENTERING RADIUS	C	15 ft.	5 to 15 ft.	15 ft.	5 to 20 ft.
EXITING RADIUS	D	6 ft.	5 to 15 ft.	10 ft.	5 to 20 ft.
CURB CUT	R	26 ft.	20 to 40 ft.	not applicable	

FIELD ENTRANCE AND UTILITY STRUCTURE DRIVEWAY

		CURBED HIGHWAY		UNCURBED HIGHWAY	
		STANDARD	RANGE	STANDARD	RANGE
INTERSECTING ANGLE	A	90°	70 TO 110°	90°	70 TO 110°
DRIVEWAY WIDTH	B	20 ft.	15 to 40 ft.	20 ft.	15 to 40 ft.
ENTERING RADIUS	C	not applicable		20 ft.	5 to 40 ft.
EXITING RADIUS	D	not applicable		20 ft.	5 to 40 ft.
CURB CUT	R	26 ft.	20 to 50 ft.	not applicable	

The standard shall be used unless engineering judgement determines that another dimension within the range is more suitable for a particular site or special condition and is approved by the Michigan Department of Transportation

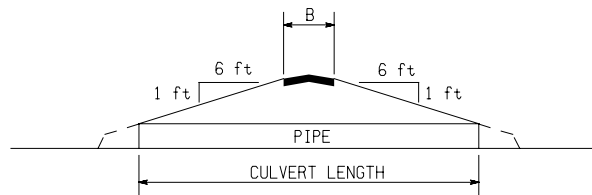
UNCURBED HIGHWAY



SHOW NORTH ARROW  PAVEMENT TYPE _____
SHOULDER TYPE _____

DRAINAGE

See Rule 61 on back
Culvert Length _____ ft.
Size (inside diameter) _____ in.
Culvert Type _____
Ditch Depth _____ ft.
(show direction of flow)



SLOPE: 1 FT. VERTICAL - 6 FT. HORIZONTAL
STEEL OR CONCRETE FLARED OR SLOPED END SECTIONS ARE REQ'D

UTILITIES - PERMITS SECTION
REAL ESTATE DIVISION



PERMIT NO. _____
TRUNKLINE _____
NAME OF PERMIT _____
APPLICANT _____

PERMIT ATTACHMENT FOR
PERMIT PLAN FOR RURAL AND
URBAN RESIDENTIAL DRIVEWAYS

08-18-98
PLAN DATE

PA-09

SHEET
01 OF 02

GENERAL REQUIREMENT

THIS DRIVEWAY MUST BE CONSTRUCTED, USED, AND MAINTAINED IN ACCORDANCE WITH THE ADMINISTRATIVE RULES REGULATING DRIVEWAYS, BANNERS, AND PARADES ON AND OVER HIGHWAYS, BY THE MICHIGAN DEPARTMENT OF TRANSPORTATION, AS REQUIRED BY ACT 200 OF 1969. EXERPTS FROM THESE RULES FOLLOW; RULE 14.

- (4) FUTURE CHANGES IN THE USE OF PROPERTY ABUTTING A HIGHWAY, SUCH AS A CHANGE FROM RESIDENTIAL TO COMMERCIAL USE. . . MAY REQUIRE CHANGES IN THE NUMBER, DESIGN, OR LOCATION OF DRIVEWAYS . . . THE PROPERTY OWNER THEN SHALL OBTAIN A NEW PERMIT FROM THE DEPARTMENT.

LOCATION

RULE 31.

- (1) A DRIVEWAY SHALL BE SO LOCATED THAT NO UNDUE INTERFERENCE WITH THE FREE MOVEMENT OF HIGHWAY TRAFFIC WILL RESULT. A DRIVEWAY SHALL BE SO LOCATED ALSO TO PROVIDE THE MOST FAVORABLE VISION AND GRADE CONDITIONS POSSIBLE FOR MOTORISTS USING THE HIGHWAY AND THE DRIVEWAY CONSISTANT WITH DEVELOPMENT OF THE SITE COSIDERING PROPER TRAFFIC OPERATIONS AND SAFETY.
- (2) A DRIVEWAY, INCLUDING THE RADII BUT NOT INCLUDING THE RIGHT-TURN LANES AND TAPERS. SHALL BE LOCATED ENTIRELY WITHIN THE AREA BETWEEN THE PERMITTEE'S PROPERTY LINES EXTENDED TO THE CENTERLINE OF THE HIGHWAY. A DRIVEWAY RADIUS MAY EXTEND OUTSIDE OF THAT AREA ONLY IF THE ADJACENT PROPERTY OWNER CERTIFIES IN WRITING THAT HE WILL PERMIT SUCH EXTENSION. . .

DEFINITIONS

CIRCLE DRIVEWAY: A PRIVATE DRIVEWAY THAT ENTERS AND LEAVES PROPERTY AT 2 POINTS WITHIN THE SAME FRONTAGE.

FIELD ENTRANCE: A DRIVEWAY SERVING A FARMYARD, CULTIVATED OR UNCULTIVATED FIELD, TIMBERLAND OR UNDEVELOPED LAND NOT USED FOR INDUSTRIAL, COMMERCIAL OR RESIDENTIAL PURPOSES.

RESIDENTIAL DRIVEWAY: A DRIVEWAY SERVING A PRIVATE HOME.

UTILITY STRUCTURE DRIVEWAY: A DRIVEWAY SERVING A UTILITY STRUCTURE SUCH AS A PUMPHOUSE OR SUBSTATION WHICH OPERATES AUTOMATICALLY AND REQUIRES ONLY OCASSIONAL ACCESS.

NUMBER OF DRIVEWAYS

RULE 47. 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 THEN 100 FEET OF FRONTAGE.
- (B) ONE ADDITIONAL RESIDENTIAL DRIUVEWAY MAY BE PERMITTED FOR RESIDENTIAL PROPERTY FOR EACH 70 FEET OF FRONTAGE IN EXCESS OF THE FIRST 100 FEET OF FRONTAGE.
- (C) TWO RESIDENTIAL DRIVEWAYS MAY BE PERMITTED ON THE SAME PROPERTY, LIEU OF THE REQUIREMENTS OF PARAGRAPH (B), TO SERVE A CIRCLE DRIVEWAY IF THE FRONTAGE OF THE PROPERTY IS 80 FEET OR MORE.
- (D) RESIDENTIAL DRIVEWAYS ON THE SAME PROPERTY SHALL BE AT LEAST 45 FEET APART, CENTER TO CENTER.

RULE 49.

- (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. . .

SURFACING

RULE 51. IF A HIGHWAY IS CURBED, THE FOLLOWING DRIVEWAY, SURFACING AND CURBING REQUIREMENTS APPLY:

- (B) A RESIDENTIAL DRIVEWAY SHALL BE PAVED BETWEEN THE EDGE OF THE PAVEMENT AND THE EXISTING OR PROPOSED SIDEWALK. IF THERE IS NO EXISTING OR PROPOSED SIDEWALK, THE SURFACING SHALL EXTEND AT LEAST 10 FEET FROM THE EDGE OF THE PAVEMENT. FOR RESIDENTIAL DRIVEWAY, EITHER CURB CUTS OR CURB RETURNS SHALL BE REQUIRED AS DETERMINED BY THE DEPARTMENT, BASED ON THE CURRENT DEPARTMENT STANDARDS FOR CURB AND GUTTER.

RULE 52. IF A HIGHWAY IS UNCURBED, THE FOLLOWING DRIVEWAY SURFACING AND CURBING REQUIREMENT APPLY:

- (C) A RESIDENTIAL DRIVEWAY MAY BE PAVED OR SURFACED WITH STABILIZED GRAVEL AND MAY BE CURBED OR UNCURBED.

RULE 53. A FIELD ENTRANCE OR A UTILITY STRUCTURE DRIVEWAY MAY BE SURFACED WITH STABILIZED GRAVEL OR WITH SOD OVER A STABLE BASE AND MAY BE UNCURBED, AS DETERMINED BY THE DEPARTMENT.

DRAINAGE

RULE 61.

- (1) A DRIVEWAY SHALL BE CONSTRUCTED SO THAT IT DOES NOT ADVERSELY AFFECT THE HIGHWAY DRAINAGE. THE DRAINAGE AND THE STABILITY OF THE HIGHWAY SUBGRADE SHALL NOT BE ALTERED BY DRIVEWAY CONSTRUCTION OR ROADSIDE DEVELOPMENT. . .
- (3) CULVERT PIPE SHALL BE OF A SIZE ADEQUATE TO CARRY THE ANTICIPATED NATURAL FLOW OF THE DITCH. THE CULVERT SHALL BE NO SMALLER THAN THE NEAREST UPSTREAM CULVERT NOR LESS THAN 12 INCHES INSIDE DIAMETER. A CULVERT, CATCH BASIN, DRAINAGE CHANNEL AND OTHER DRAINAGE STRUCTURE REQUIRED WITHIN THE HIGHWAY RIGHT-OF-WAY SHALL BE MANUFACTURED OR CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE CURRENT DEPARTMENT STANDARD SPECIFICATIONS FOR CONSTRUCTION. THE MINIMUM LENGTH OF THE CULVERT MAY BE DETERMINED AS THE SUM OF THE DISTANCE BETWEEN DRIVEWAY EDGES, MEASURED ALONG THE DITCH LINE, PLUS THE DISTANCES NEEDED TO ACCOMMODATE AN EMBANKMENT SLOPE NOT TO EXCEED 1 FOOT VERTICAL FOR 6 FEET HORIZONTAL ON BOTH SIDES OF THE HIGHWAY.

DRIVEWAY PROFILE

RULE 63. A DRIVEWAY PROFILE SHALL BE DETERMINED USING THE FOLLOWING CRITERIA:

- (A) IF THE HIGHWAY IS UNCURBED, THE GRADE OF THE DRIVEWAY BETWEEN THE HIGHWAY EDGE OF PAVEMENT AND THE EDGE OF THE SHOULDER SHALL CONFORM TO THE SLOPE OF THE SHOULDER.
- (B) IF THE HIGHWAY IS UNCURBED OR IF THE SIDEWALK IS MORE THAN 10 FEET FROM THE EDGE OF THE PAVEMENT OR IF THERE IS NO SIDEWALK. . .
- (11) THE GRADE OF A RESIDENTIAL OR UTILITY STRUCTURE DRIVEWAY OR FIELD ENTRANCE SHALL NOT EXCEED 10%.
- (C) IF THE HIGHWAY IS CURBED AND IF THE SIDEWALK IS 10 FEET OR LESS FROM THE EDGE OF PAVEMENT, THE GRADE OF A DRIVEWAY, EXCEPT A DIRECTIONAL DRIVEWAY, SHALL BE THE GRADE REQUIRED TO MEET THE SIDEWALK ELEVATION; BUT IF THAT GRADE WOULD EXCEED THE MAXIMUMS SPECIFIED IN PARAGRAPH (B), THE SIDEWALK SHALL BE EITHER TILTED OR INCLINED.
- (E) VERTICAL CURVES, WITH A MINIMUM LENGTH OF 15 FEET, SHALL BE PROVIDED AT A CHANGE OF GRADE OF 4% OR MORE.
- (F) IF THE SIDEWALK ELEVATION HAS TO BE ADJUSTED TO MEET THE DRIVEWAY, THE DEPARTMENT MAY REQUIRE THAT THE SIDEWALK BE INCLINED AT A RATE NOT TO EXCEED 1 FOOT VERTICAL FOR EVERY 24 FEET HORIZONTAL.

UTILITIES - PERMITS SECTION
REAL ESTATE DIVISION



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08-17-98

PLAN DATE

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02 OF 02