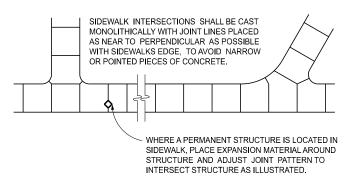
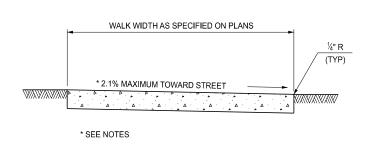


LOCATION OF JOINTS IN CONCRETE SIDEWALK



TYPICAL SIDEWALK JOINT LAYOUTS



4" CONCRETE SIDEWALK

APPROVED BY:

DIRECTOR, BUREAU OF FIELD SERVICES

APPROVED BY:

DIRECTOR, BUREAU OF DEVELOPMENT

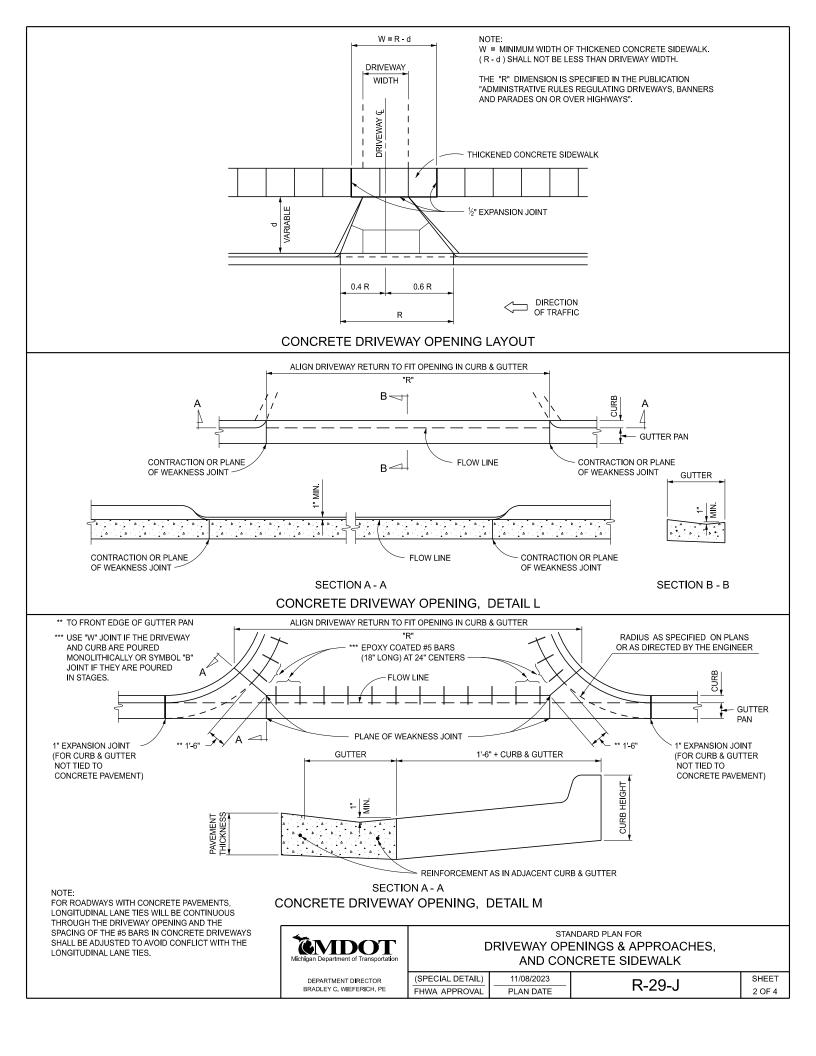


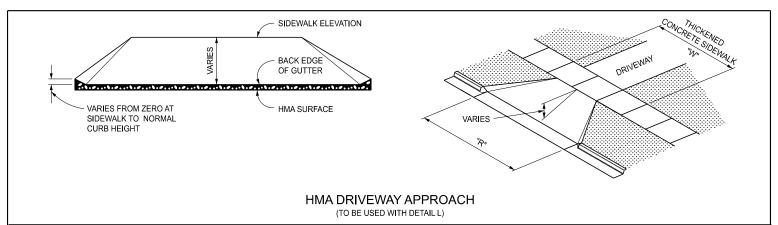
STANDARD PLAN FOR
DRIVEWAY OPENINGS & APPROACHES,
AND CONCRETE SIDEWALK

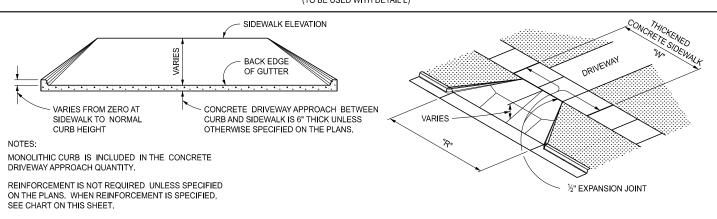
(SPECIAL DETAIL) FHWA APPROVAL 11/08/2023 PLAN DATE

R-29-J

SHEET 1 OF 4

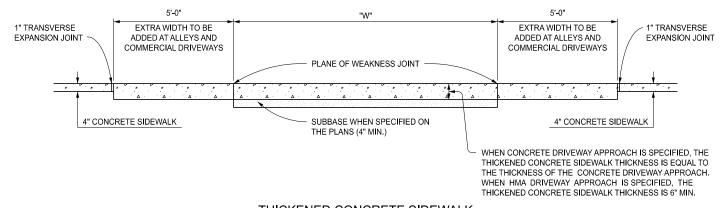




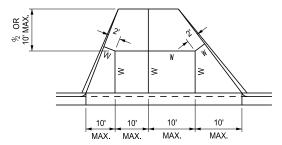


CONCRETE DRIVEWAY APPROACH

(TO BE USED WITH DETAIL L OR M)



THICKENED CONCRETE SIDEWALK



ADJUST DRIVEWAY JOINTS AS NEEDED TO ALIGN WITH ANY COINCIDING TRANSVERSE PAVEMENT JOINTS,

JOINT LAYOUT IS AS INDICATED OR AS DIRECTED BY THE ENGINEER.

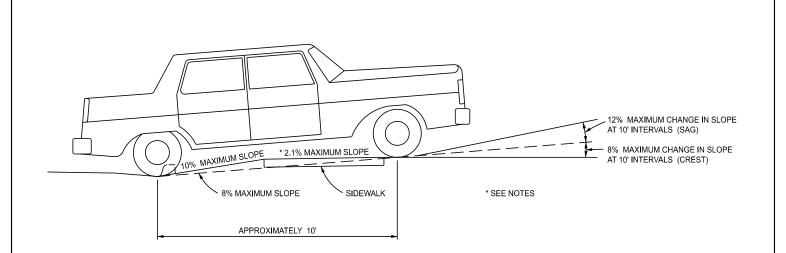
INTERMEDIATE DRIVEWAY JOINT DETAILS

| Michigan Department of Transportation |
|---|
| DEPARTMENT DIRECTOR BRADLEY C. WIEFERICH, PE |

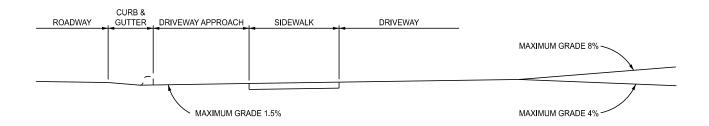
| REINFORCEMENT FOR CONCRETE DRIVEWAYS | | | |
|--------------------------------------|--|---------------------------------|--|
| CONCRETE DRIVEWAY THICKNESS | WIRE SIZE (6" x 6" MESH) | AVERAGE WEIGHT (LBS/100 SFT) | |
| LESS THAN 8" | W1.4 | 21 | |
| | W2.9 | 42 | |
| 8" OR GREATER | OR GREATER USE WIRE FABRIC REINFORCEMENT SPECI ON STANDARD PLAN R-37-SERIES | | |

STANDARD PLAN FOR DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALK

| (SPECIAL DETAIL) | 11/08/2023 | D 20 I | SHEET |
|------------------|------------|---------|--------|
| FHWA APPROVAL | PLAN DATE | 17-29-0 | 3 OF 4 |



LOW VOLUME COMMERCIAL OR RESIDENTIAL DRIVEWAY SLOPES



COMMERCIAL DRIVEWAY PROFILE FOR MAJOR TRAFFIC GENERATORS

NOTES:

FOR DRIVEWAY DESIGN REFER ALSO TO "ADMINISTRATIVE RULES REGULATING DRIVEWAYS, BANNERS, AND PARADES ON OR OVER HIGHWAYS" AND GEOMETRIC DESIGN G-680-SERIES, COMMERCIAL DRIVEWAYS.

FOR CURB AND GUTTER DETAILS, SEE STANDARD PLAN R-30-SERIES.

TRANSVERSE SIDEWALK SLOPES ARE 2.1% MAXIMUM. IN ORDER TO MEET SITE CONDITIONS, IF THE TRANSVERSE SLOPE IS REQUIRED TO BE LESS THAN 1.5%, LONGITUDINAL DRAINAGE MUST BE PROVIDED.

WHEN SETTING GRADES FOR COMMERCIAL DRIVES, THE TYPES OF VEHICLES USING THE DRIVE SHOULD BE CONSIDERED.



STANDARD PLAN FOR DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALK

MENT DIRECTOR C. WIEFERICH, PE FHWA APPROVAL THUR DATE R-29-J SHEET 4 OF 4