

















NOTES: (NON-FREEWAY)

THIS STANDARD SPECIFIES HOW SHOULDER CORRUGATION CROSS-SECTIONS AND LOCATIONS ARE TO BE DETAILED. USE CORRUGATIONS ON NON-FREEWAY SHOULDERS (CONCRETE AND HMA) WHICH ARE PAVED AT LEAST 6-0" WIDE WHEN THE POSTED SPEED IS 55 MPH. USE THE CORRUGATIONS (SPECIFIED ON THIS STANDARD) IN OTHER LOCATIONS WHERE THEY HAVE BEEN PREVIOUSLY APPROVED.

DO NOT PLACE CORRUGATIONS OVER TRANSVERSE SHOULDER JOINTS.

DO NOT MILL SHOULDER OR CENTER LINE CORRUGATIONS THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

NOTES: (FREEWAY)

THIS STANDARD SPECIFIES HOW SHOULDER CORRUGATION CROSS-SECTIONS AND LOCATIONS ARE TO BE DETAILED. USE CORRUGATIONS ON FREEWAY SHOULDERS (CONCRETE AND HMA) PAVED AT LEAST 4'-0" WIDE OR WHERE THE SHOULDER LIES BETWEEN THE PAVEMENT AND VALLEY GUTTER OR CURB AND GUTTER. DO NOT USE CORRUGATIONS ON THE SHOULDERS OF FREEWAY EXIT/ENTRANCE RAMPS OR ON SHOULDERS THAT ARE SEPARATED FROM THE PAVEMENT BY VALLEY GUTTER OR CURB AND GUTTER. USE CORRUGATIONS ON FREEWAY TO FREEWAY RAMPS WITH THE EXCEPTION OF LOOP RAMPS.

DO NOT PLACE CORRUGATIONS OVER TRANSVERSE SHOULDER JOINTS.

LOCATE CORRUGATIONS IN THE AREA OF FREEWAY RAMPS AS FOLLOWS: INCREASE THE TYPICAL OFFSET TO 24" ON THE SHOULDER SIDE OF THE JOINT, BEGINNING 300' IN ADVANCE OF THE EXIT RAMP TAPER. CONTINUE THIS OFFSET UNTIL THE 2' POINT OF THE GORE. END CORRUGATIONS ALONG THE RAMP AT THIS POINT AND SIMULTANEOUSLY RESUME ON THE MAINLINE SHOULDER AND GORE WITH THE NORMAL OFFSET. USE THE SAME CONFIGURATION FOR ENTRANCE RAMPS, BUT IN THE REVERSE ORDER. FOR FREEWAY TO FREEWAY RAMPS, IN ADDITION TO RESUMING THE MAINLINE SHOULDER CORRUGATION, RETURN TO THE NORMAL MAINLINE OFFSET ALONG THE LENGTH OF THE RAMP SHOULDER.

WITHIN AN URBAN FREEWAY OR OTHER LIMITED FREEWAY AREA, OFFSET THE SHOULDER CORRUGATIONS UP TO 12" FROM THE EDGE OF THE TRAVEL LANE, OR AS SHOWN IN THE PLANS, OR AS DIRECTED BY THE ENGINEER. IF NEEDED, LOCATE THE CORRUGATION ON THE OPPOSITE SIDE OF THE JOINT FOR 14' LANES TO MAINTAIN THE MINIMUM OFFSET TO THE JOINT.

Michigan Department of Transportation	STANDARD PLAN FOR SHOULDER AND CENTER LINE CORRUGATIONS			
DEPARTMENT DIRECTOR	12/18/2024	05/16/2024	R-112-J	SHEET
BRADLEY C. WIEFERICH, PE	FHWA APPROVAL	PLAN DATE		10 OF 10