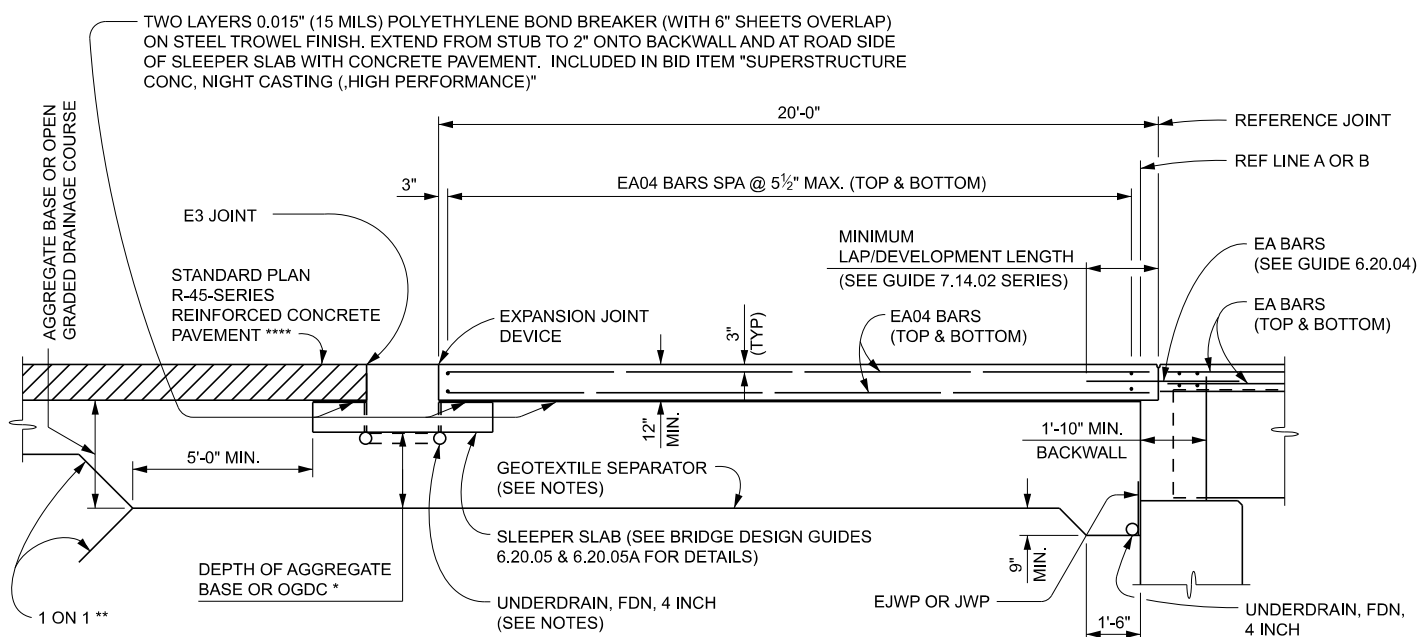
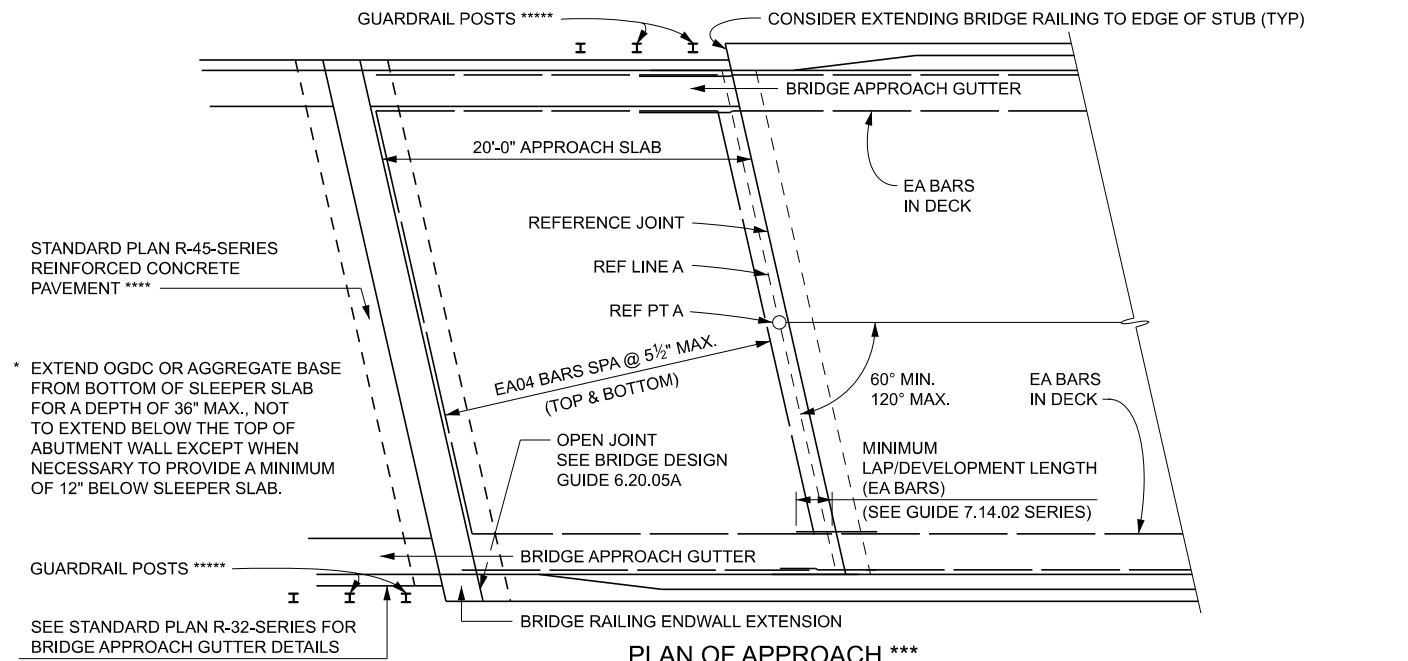


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MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT
INTEGRAL AND SEMI-INTEGRAL ABUTMENT
EMPIRICAL APPROACH SLAB DETAILS

ISSUED: 12/26/23
SUPERSEDES: 07/25/22



NOTES:

ATTACH APPROACH CURB AND GUTTER TO THE APPROACH SLAB WITH BOTTOM MAT TRANSVERSE REINFORCEMENT AND TO THE BRIDGE DECK WITH BOTTOM MAT LONGITUDINAL REINFORCEMENT.

POUR APPROACH SLABS FROM EXPANSION LOCATION TOWARD REFERENCE JOINT.

CAST APPROACH SLABS AT NIGHT WITH NIGHT TIME CASTING OF SUPERSTRUCTURE CONCRETE.

USE GEOTEXTILE SEPARATOR ONLY WITH OPEN GRADED DRAINAGE COURSE.

OMIT UNDERDRAIN UNDER SLEEPER SLAB IF OPEN GRADED DRAINAGE COURSE IS USED INSTEAD OF AGGREGATE BASE.

EMPIRICAL APPROACH SLABS (AS DETAILED ON THIS GUIDE) ARE NOT REQUIRED AT THE ENDS OF BRIDGES WITH A LENGTH CONTRIBUTING TO EXPANSION OF LESS THAN 50' FOR CONCRETE BEAM BRIDGES AND LESS THAN 25' FOR STEEL BEAM BRIDGES. INSTEAD, USE A PAVEMENT SEAT WITH STANDARD PLAN R-45-SERIES REINFORCED CONCRETE PAVEMENT.

** SEE GUIDE 5.46.01 FOR TERMINATION LIMITS OF AGGREGATE BASE OR OPEN GRADED DRAINAGE COURSE.

*** THE DETAILED BRIDGE APPROACH SLAB IS BASED ON A LONGITUDINAL UNSUPPORTED LENGTH OF 10 FEET MEASURED ALONG THE CENTERLINE OF THE ROADWAY, A SLAB THICKNESS OF 12" AND A MAXIMUM CONCRETE COVER TO THE CENTERLINE OF THE BOTTOM LONGITUDINAL REINFORCEMENT OF 3". DEVIATION FROM THESE DESIGN PARAMETERS FOR SPECIFIC PROJECTS REQUIRES A COMPLETE REDESIGN OF THE BRIDGE APPROACH SLAB.

**** USE INVERTED "T" SLEEPER SLAB FOR CONCRETE AND HMA ROAD APPROACH PAVEMENT. PLACE STANDARD PLAN R-45-SERIES REINFORCED CONCRETE PAVEMENT THEN CONCRETE OR HMA ROAD APPROACH PAVEMENT.

***** USE GUARDRAIL ANCHORAGE, BRIDGE, DETAIL M4, M5 OR M6 PER STANDARD PLAN R-67-SERIES.

PREPARED BY
DESIGN DIVISION

6.20.04B