# Reinforced Concrete Box Culvert Design Caltrans

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Caltrans Reinforced Concrete Pipe Culvert Research-design Summary and ImplementationRoute Location, Adoption and Construction of State Route 905 Between the Otay Mesa Port of Entry and Interstate 805 in the County of San DiegoConstruction and Operation of a Freeway Bypass on US 101 Around the City of Willits in Mendocino County, from KP R69.4 Tp KP 84.2 (PM R43.1/52.3) Caltrans Structural Steel Pipe Culvert ResearchProposed Practice for Alternative Bidding of Highway Drainage SystemsSeismic Analysis and Design of Retaining Walls, Buried Structures, Slopes, and EmbankmentsCulvert Criteria for Fish PassageCA-101/Cuesta Grade Highway Improvements, 1.1 Miles North of Reservoir Canyon Road to the Cuesta Grade Overhead, San Luis Obispo CountyCost-effective Concrete Box-culvert DesignRidesharing 1981Transportation Research RecordDurability, Strength, and Analysis of Culverts and Tunneling MachinesPipeline Materials and DesignAgendaMarin-Sonoma Narrows (MSN) HOW Widening Project, Marin and Sonoma CountiesAtmospheric EmergenciesEldorado National Forest (N.F.), Kirkwood Meadows Power Line Reliability Project, Amador, Alpine & El Dorado CountiesHighway Design ManualInvestigation of Uplift Failures in Flexible Pipe CulvertsGoing Places A. E. Bacher A. E. Bacher Michael L. J. Maher Donald G. Anderson Maher K. Tadros National Research Council (U.S.). Transportation Research Board B. Jay Schrock California. State Merit Award Board California. Department of Transportation Tom Al Austin Caltrans Reinforced Concrete Pipe Culvert Research-design Summary and Implementation Route Location, Adoption and Construction of State Route 905 Between the Otay Mesa Port of Entry and Interstate 805 in the County of San Diego Construction and Operation of a Freeway Bypass on US 101 Around the City of Willits in Mendocino County, from KP R69.4 Tp KP 84.2 (PM R43.1/52.3) Caltrans Structural Steel Pipe Culvert Research Proposed Practice for Alternative Bidding of Highway Drainage Systems Seismic Analysis and Design of Retaining Walls, Buried Structures, Slopes, and Embankments Culvert Criteria for Fish Passage CA-101/Cuesta Grade Highway Improvements, 1.1 Miles North of Reservoir Canyon Road to the Cuesta Grade Overhead, San Luis Obispo County Cost-effective Concrete

Box-culvert Design Ridesharing 1981 Transportation Research Record Durability, Strength, and Analysis of Culverts and Tunneling Machines Pipeline Materials and Design Agenda Marin-Sonoma Narrows (MSN) HOW Widening Project, Marin and Sonoma Counties Atmospheric Emergencies Eldorado National Forest (N.F.), Kirkwood Meadows Power Line Reliability Project, Amador, Alpine & El Dorado Counties Highway Design Manual Investigation of Uplift Failures in Flexible Pipe Culverts Going Places A. E. Bacher A. E. Bacher Michael L. J. Maher Donald G. Anderson Maher K. Tadros National Research Council (U.S.). Transportation Research Board B. Jay Schrock California. State Merit Award Board California. Department of Transportation Tom Al Austin

trb s national cooperative highway research program nchrp report 801 proposed practice for alternative bidding of highway drainage systems explores the application of a performance based process for selection of drainage pipe systems the selection process is based on satisfying performance criteria for the drainage system while considering the full range of suitable pipe materials publisher s description

this report explores analytical and design methods for the seismic design of retaining walls buried structures slopes and embankments the final report is organized into two volumes nchrp report 611 is volume 1 of this study volume 2 which is only available online presents the proposed specifications commentaries and example problems for the retaining walls slopes and embankments and buried structures

this is a study of the analysis and design of reinforced concrete box culverts rcb commonly used as underground conduits in nebraska three major areas were emphasized 1 soil pressures 2 live loads and 3 design procedures

good no highlights no markup all pages are intact slight shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine

this study was precipitated by several failures of flexible pipe culverts due to apparent inlet flotation a survey of iowa county engineers revealed 31 culvert failures on pipes greater than 72 in diameter in eight iowa counties within the past five years no special hydrologic topography and geotechnical environments appeared to be more susceptible to failure however most failures seemed to be on pipes flowing in inlet control geographically most of the failures were in the southern and western sections of iowa the forces

acting on a culvert pipe are quantified a worst case scenario where the pipe is completely plugged is evaluated to determine the magnitude of forces that must be resisted by a tie down or headwall concrete headwalls or slope collars are recommended for most pipes over 4 ft in diameter

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