



FIGURE ; CROSS-SECTION OF TYPICAL RCC BOX CULVERT

Rcc Box Culvert Bending Structural Load

**Roger Diaz de Cossio, Chester Paul
Siess**



Rcc Box Culvert Bending Structural Load:

Recent Advances in Material, Manufacturing, and Machine Learning Bjorn Schuller, Rajeev Gupta, Rakesh Mote, Abhishek Sharma, J.P. Giri, R.B. Chadge, 2024-06-17 The main aim of the 2nd international conference on recent advances in materials manufacturing and machine learning processes 2023 RAMMML 23 is to bring together all interested academic researchers scientists engineers and technocrats and provide a platform for continuous improvement of manufacturing machine learning design and materials engineering research RAMMML 2023 received an overwhelming response with more than 530 full paper submissions After due and careful scrutiny about 120 of them have been selected for presentation The papers submitted have been reviewed by experts from renowned institutions and subsequently the authors have revised the papers duly incorporating the suggestions of the reviewers This has led to significant improvement in the quality of the contributions Taylor Francis publications CRC Press have agreed to publish the selected proceedings of the conference in their book series of *Advances in Mechanical Engineering and Interdisciplinary Sciences* This enables fast dissemination of the papers worldwide and increases the scope of visibility for the research contributions of the authors *Modern Tunneling Science* And T. Adachi, 2020-10-07 This book introduces the latest frontier of the tunneling science and technology in Japan It contains a collection of 175 papers presented at the International Symposium on Modern Tunneling Science and Technology held in Kyoto 2001 **Practical Civil Engineering** P.K. Jayasree, K Balan, V Rani, 2021-05-03 The book provides primary information about civil engineering to both a civil and non civil engineering audience in areas such as construction management estate management and building Basic civil engineering topics like surveying building materials construction technology and management concrete technology steel structures soil mechanics and foundations water resources transportation and environment engineering are explained in detail Codal provisions of US UK and India are included to cater to a global audience Insights into techniques like modern surveying equipment and technologies sustainable construction materials and modern construction materials are also included Key features Provides a concise presentation of theory and practice for all technical in civil engineering Contains detailed theory with lucid illustrations Focuses on the management aspects of a civil engineer's job Addresses contemporary issues such as permitting globalization sustainability and emerging technologies Includes codal provisions of US UK and India The book is aimed at professionals and senior undergraduate students in civil engineering non specialist civil engineering audience **Journal of the Institution of Engineers (India)**. Institution of Engineers (India). Civil Engineering Division, 1968 **Journal of the Institution of Engineers (India)** Institution of Engineers (India), 1968 **Analysis of Box Culverts** Ramanbhai Dahyabhai Patel, 1953 *Concrete Culverts and Conduits* Portland Cement Association, 1941 **Cost-effective Concrete Box-culvert Design** Maher K. Tadros, 1986 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

Development of Design Criteria for Reinforced Concrete Box Culverts Cossio Diaz de (R.), C. P. Siess, Chester Paul Siess, 1959

Development of Design Criteria for Reinforced Concrete Box Culverts. Part I: Strength and Behavior of Reinforced Concrete Beams and Frames, 1958 The results of 57 tests on simply supported beams and 24 tests on frame members are described and correlated in this report. The main object of these tests was to study the behavior and strength in shear of reinforced concrete members. A few tests were intended to study the flexural strength of under reinforced members under axial load and bending. The ultimate objective of the test program was to obtain information which would permit the development of more rational design criteria for reinforced concrete box culverts. Fundamental knowledge was first acquired through tests of simply supported beams under various conditions of loading. And finally tests were made on 24 frames under conditions simulating closely those in the horizontal member of a box culvert section. Three of these frames had web reinforcement in the form of bent bars. The following major variables were studied during the course of the investigation: type of loading, concrete strength, steel percentage, ratio of span length to effective depth, ratio of shear span to effective depth, and ratio of axial to vertical load. The simply supported beams were tested under one or two concentrated loads or under uniform load.

Structural Investigation of a Fiber Reinforced Precast Concrete Box Culvert, 2005 This investigation of a pre cast concrete box culvert was undertaken to determine the suitability of replacing conventional reinforcing steel with a fiber reinforced concrete. It can be predicted that fiber reinforced concrete will provide the culvert with a strength and durability that are equivalent to or exceed those provided by the culvert reinforced with conventional reinforcing steel. The use of the fiber reinforcement would result in a significant reduction in the labor costs when compared to the fabrication of a pre cast concrete culvert unit reinforced with conventional reinforcing steel. LJB Inc in conjunction with the University of Cincinnati has performed a full scale load test of a 12 foot span 6 foot tall pre cast box culvert reinforced with monofilament polypropylene fibers. The objective was to assess the behavior of the fiber reinforced culvert both experimentally and analytically and to determine the feasibility of using the fiber reinforced culvert in place of the commonly used standard reinforced unit. During construction of the bridge the fiber reinforced culvert was load tested utilizing a load actuator mounted on top. Strains and deflections were recorded using instruments mounted at strategic locations. Recorded strains and deflections were compared to theoretical values obtained from three finite element models. The results of this investigation generated positive results. However due to the presence of a crack that had developed near the mid span of the culvert prior to load testing further testing is suggested. Even with this crack the results suggest the future success of the use of fibers to replace conventional reinforcing steel.

Development of Design Criteria for Reinforced Concrete Box Culverts Roger Diaz de Cossio, Chester Paul Siess, 1958

Evaluation Procedure for Reinforced Concrete Box Culverts Under Airfield Pavements David M. Coleman, James A. Harrison, Stanley C. Woodson, 1990

Live Load Effect in Reinforced Concrete Box Culverts Under Soil Fill Sarah Orton, Erik Loehr, Andrew Boeckmann, 2014 The objective of this

study is to determine the effects of live load truck loads on bridge size spans greater than 20 ft reinforced concrete box culverts under soil fills of different thickness. Testing results show that live load effect does diminish with increasing fill depth. The AASHTO LRFD and LFD Standard Specifications were both overly conservative in predicting strains and displacements compared to the field data for fill depths less than 8 ft. At above 6 ft of fill the measured effect of the live load was less than 10% of the dead load effect. This could be considered as a point at which to ignore the live load effect and therefore not load rate the culvert.

Static and Seismic Soil Culvert Interaction Osama Salem A. Abuhajar, 2013. Failures of box culverts under static and earthquake loads can cause significant economic loss. Therefore it is important to investigate the soil culvert interaction of box culverts to understand their responses to such loads. The response of buried box culverts is a complex soil structure interaction problem where the relative stiffness between the soil and the structure is a critical factor. Soil arching is an important aspect of the soil culvert interaction problem and results in the redistribution of free field stresses due to the presence of buried structures and leads to an increase or decrease in the loading around box culverts. A series of static and seismic scaled physical model centrifuge tests were performed to investigate the soil culvert interaction. Two different box culvert thicknesses and two Nevada sand relative densities were used to explore the interaction between the sand and box culverts under a wide range of different conditions. The static loading consisted of the soil self weight of and the surcharge from a surface foundation while the seismic loading considered the application of seven earthquake shaking events for each test. Several sensors were used in these tests including tactile pressure sensors, LVDTs, accelerometers and strain gauges. A newly developed method for installing the strain gauges inside the box culvert model is introduced. The responses of the box culvert have been compared for all of the loading conditions. It was observed that the kinematic soil culvert interaction due to the presence of a box culvert as well as the surface foundation had a significant effect on reducing the peak ground acceleration at the surface when compared to the free field peak ground acceleration. The kinematic interaction can provide up to a 50% reduction and is dependent on the amplitude of the input motion at the base of the model. Small values for the rocking of the box culvert and surface foundation were also observed and their values changed with the amplitude of the input motion. The values observed for the foundation were higher than those for the culvert due to the soil confinement. The lateral movement of the foundations increased as the peak ground acceleration at the base of the model increased. The racking deformation ratio of the culvert was found to change with the thickness and therefore the relative stiffness of the culvert and the soil density. Soil pressures measured by different methods were in good agreement and those obtained from the tactile sensors can be considered to bound the expected behaviours. The soil pressure observed on the culvert top slab had a parabolic shape, i.e. higher values at the edges and lower at the center than the theoretical vertical soil pressure. On the side wall the horizontal soil pressure increased with depth. The soil culvert interaction factors decreased at the center and increased at the edges of the top slab as the thickness and the relative stiffness of the culvert decreased. The seismic analysis

showed that the seismic bending moment increased as the peak ground acceleration at the model base and the relative stiffness of the culvert increased. The static and seismic responses of the box culvert were analyzed using the finite difference code FLAC 2D and the results matched the experimental responses. The validated numerical model was then used to perform a parametric study to evaluate the effects of culvert geometric parameters, foundation locations, and soil properties for the static loading and only the culvert geometric parameters for the seismic loading. The results have been evaluated for bending moment, soil pressure, and soil-culvert interaction factors. Based on these analyses, charts and equations are presented to help in assessing the design values of the static soil pressure, static bending moment, and the seismic bending moments around box culverts.

Recommended Specifications for Large-span Culverts Timothy J. McGrath, National Cooperative Highway Research Program, 2002

Evaluation of Precast Box Culvert Systems Ronald A. Cook, 2002

Improved Load Distribution for Load Rating of Low-fill Box Structures, 2013

Reinforced concrete box culverts are mostly used at shallow depths. Periodic evaluation of their load-carrying capacities is required for load rating of the culvert by determining a rating factor (RF) or truck tonnage of an HS truck. The rating factor is defined as the capacity of the structure minus the dead load demand and then divided by the live load demand. All the state DOTs are required to inspect and assess culvert conditions and capacities by load rating in every two years. The distribution of live loads on the top slab of a box culvert plays a major role in determining the rating factor of the culvert. The current AASHTO guidelines do not consider the effects of pavements present above the fill while determining the load distribution. The distribution of the wheel load through a pavement may be different from that suggested by the current AASHTO guidelines. In addition to the pavement effect, the fill conditions, i.e., fill thickness and fill modulus, may affect the load distribution. Currently, there is a lack of a design method to address the load distribution when a pavement is present above the fill. In this research, two field tests were carried out on the concrete box culverts under rigid and flexible pavements, respectively. The finite difference numerical models of the test culverts were created in the Fast Lagrangian Analysis of Continua in three dimensions (FLAC3D) software and were verified against the field test results. The verified finite difference models of the culverts were used for a parametric study to analyze the effects of pavement type, i.e., flexible and rigid pavement, pavement thickness, fill depth, and culvert span on the pressure distribution. The material properties and boundary conditions used in the models for the parametric study were similar to those used in the verified models. The parametric study demonstrated that the intensity of the distributed vertical pressure on the top slab of the culvert gradually decreased as the pavement thickness increased. The vertical pressure under a rigid pavement was lower than that under a flexible pavement at the same pavement thickness. Within the range of the fill depth covered in this study, the intensity of vertical pressure decreased gradually with an increase of the fill depth over the culvert. The effect of the traffic load on the vertical pressure on the culvert was more significant at the lower fill depth and gradually decreased with the increase of the fill depth. The calculated vertical pressure decreased when the culvert span was increased.

from 1.8 to 5.4 m for a constant top slab thickness of the culvert. However, when the top slab thickness of the culvert increased, the vertical pressure at the larger span was close to that at the small span. The effect of the culvert span on the vertical pressure was negligible if the thickness of the top slab was properly designed. The maximum vertical pressures obtained from the numerical analyses were compared with those calculated using the distribution formulae in the AASHTO guidelines. The comparisons showed that the current AASHTO guidelines overestimated the pressure for low fill culverts under a pavement. Simplified methods were developed in this study to estimate the vertical pressures under rigid and flexible pavements that closely match the experimental and numerical results. Proposed revisions to the current AASHTO LRFD Bridge Design Specifications are suggested and included in the appendix of this report.

The Supporting Strength of Rigid Pipe Culverts Merlin Grant Spangler, 1933. The trend of practice in the design of rigid circular pipe culverts has been toward more definite field load calculation and the utilization of laboratory tests for the determination of the field supporting strength of such structures. These tests, however, do not give directly a measure of the structural strength of the pipes when installed under embankments since the loading conditions in the tests and in the field installations are radically different. It is necessary, therefore, to know the correlation between the laboratory test strength of pipe and the field strength of similar pipe in order to apply the test strengths to problems in design. The field supporting strength of rigid pipe is dependent upon the distribution of the applied vertical loads produced by the covering earth and by traffic loads at the surface of the embankment upon the construction conditions affecting the distribution of the vertical reaction and upon the distribution and magnitude of the active lateral earth pressure on the pipe. The ratio of the field supporting strength to the three edge bearing laboratory strength of similar pipe as defined is the load factor. The purpose of this research has been to determine the load factor for rigid pipe culverts when installed under various field conditions affecting the vertical reaction and the active lateral earth pressure and subjected to vertical loads due to the covering earth with or without loads due to surface traffic. The plan pursued to accomplish this purpose was to conduct a number of experiments in which several pipe sections selected at random from a given shipment were tested in the laboratory with the three edge bearing test. A like number of similar sections were then loaded in the field by an actual embankment and the field strength determined. The ratio of these two strengths is the load factor for that set of pipe for the conditions under which they were installed in the field tests. With the data thus secured as a basis, a rational theory for determining the load factor under all conditions of loading was developed. Working values of the load factor determined in accordance with this theory are proposed for a range of field conditions covering all cases likely to be encountered in practice.

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