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Engineering

Civil Engineering

Department of Transportation Study Publications, 1973-

Box 1:

The Effect of Time-Dependent Properties of Altered Rock on Tunnel Support Requirements by R.M. Semple, A.J. Hendron, G. Mesri, Department of Civil Engineering University of Illinois at Urbana-Champaign, December 1973, Final Report, Prepared for Federal Railroad Administration, Department of Transportation

Report No. FRA-ORD 75-3, Concrete for Tunnel Liners: Evaluation of Fiber Reinforced Quick Setting Cement Concrete, Grant T. Halvorsen, Clyde E. Kesler, Department of Civil Engineering, University of Illinois, August 1974, Final Report Prepared for Department of Transportation, Federal Railroad Administration

Report No. FRA-ORD&D-75-29, Influence of Testing Conditions on Creep Behavior of Clay, E. Febres-Cordero, G. Mesri, Department of Civil Engineering, University of Illinois, November 1974, Final Report, Prepared for Department of Transportation, Federal Railroad Administration

Report No. FRA-OR&D 75-87, Concrete for Tunnel Liners Behavior of Fiber Reinforced Quick Setting Cement Concrete, Grant T. Halvorsen, Walter G. Keske, James A. Stout, Clyde E. Kesler, August 1975, Final Report Prepared for Department of Transportation Federal Railroad Administration

Report No. FRA-OR&D-75-88, Concrete for Tunnel Liners Pumpable Fiber Reinforced Concrete, Douglas W. Ounanian, Grant T. Halvorsen, Clyde E. Kesler, August 1975, Final Report, Prepared for Department of Transportation, Federal Railroad Administration

Report No. FRA-ORD&D 75-24, Tunnel Design Considerations Analysis of Medium-Support Interaction, Jamshid Ghaboussi, Randall E. Ranken, Department of Civil Engineering, University of Illinois, November 1974, Final Report, Prepared for Department of Transportation, Federal Railroad Administration

Report No. FRA-OR&D-75-89, Concrete for Tunnel Liners Mix Design Recommendations for Prototype Extruded Liner System, Grant T. Halvorsen, Clyde E. Kesler, Stanley L. Paul, August 1975, Final Report, Prepared for Department of Transportation, Federal Railroad Administration

Report No. FRA-ORD&D-75-92, Investigation of Steel Tunnel Supports, August 1975, Final Report, Prepared for Department of Transportation, Federal Railroad Administration

FRA-OR&D-75-93, Concrete Tunnel Liners Structural Testing of Segmented Liners, August 1975, Final Report, Prepared for Department of Transportation, Federal Railroad Administration

Report No. FRA-OR&D 75-94, Concrete Tunnel Liners Structural Testing of Cast-In-Place Liners, August 1975, Final Report Prepared for Department of Transportation, Federal Railroad Administration

Report No. FRA-OR&D-75-91, Shotcrete Structural Testing of Thin Liners, August 1975, Final Report Prepared for Department of Transportation, Federal Railroad Administration

Box 2:

Civil Engineering Studies, Transportation Engineering Series No. 25, Illinois Cooperative Highway and Transportation Series No. 179, Final Report Moisture Movement and Moisture Equilibria in Pavement Systems by Barry J. Dempsey, a Report of the Investigation of Moisture Movement and Moisture Equilibria in Pavement Systems, Project IHR-064, Illinois Cooperative Highway and Transportation Research Program, conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station, University of Illinois at Urbana-Champaign in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, September, 1979

Civil Engineering Studies Transportation Engineering Series No. 103, Illinois Cooperative Highway and Transportation Series No. 270, Drivers Assessment of High Speed AVI/WIM System at a Weigh Station in Illinois by Rahim F. Benekohal, Courtney M. Tirums, Stanley L. Wang, Earl R. Forrler, A study report on Evaluation of Automatic Vehicle Identification in a Weigh-in-Motion System for CVO-IHR 028 prepared for the Illinois Department of Transportation, Department of Civil and Environmental Engineering University of Illinois at Urbana-Champaign, January 31, 2000

Report No. FRA-OR&D 75-84, Tunnel Design Considerations Analysis of Stresses and Deformations Around Advancing Tunnels, August 1975 Final Report, Prepared for Department of Transportation, Federal Railroad Administration

Report No. FRA-ORD&D-75-95, Ground Stabilization Review of Grouting and Freezing Techniques for Underground Openings, August, 1975, Final Report Prepared for Department of Transportation, Federal Railroad Administration

FRA-OR&D 75-90, Shotcrete Practice in Underground Construction, J.W. Mahar, H.W. Parker, W.W. Wuellner, Department of Civil Engineering, University of Illinois at Urbana-Champaign, August 1975, Final Report, Prepared for Department of Transportation, Federal Railroad Administration

Report No. FRA=OR&D-76-06, Field-Oriented Investigation of Conventional and Experimental Shotcrete for Tunnels, August, 1975, Final Report prepared for U.S. Department of Transportation, Federal Railroad Administration