RESEARCH REPORT DOCUMENTATION PAGE

1. Report No.	2. Report Date	3. Contract No.		4. Project No.
5. Title and Subtitle		11/75	6. Report Type	7. Project No.
Road Condition-Weather Monitor System To Determine Pavement Surface And Atmospheric Conditions			Work Plan Construction Evaluation	8. Project No. 9. Project No.
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NDDOT M+R North Dakota DOT NDDOT OTHER* Materials and Research Division NDSU 300 Airport Road UND Bismarck ND 58504-6005 UGPTI OTHER* *see supplementary notes		North Dakota DOT Materials and Research Division 300 Airport Road Bismarck ND 58504-6005		
14. Supplementary Notes				
16. Abstract Purpose and Need This equipment should enable maintenance supervisors to evaluate the weather conditions at various locations. Supervisors could dispatch snow and ice removal equipment without sending an operator to check conditions on site. The Department of Transportation expects this system to reduce the incidence of ice related accidents occurring on the 1-94 Red River structure. This would be accomplished by alerning maintenance forces to predicted icing conditions and by tracking and forecasting incoming weather systems. The ultimate goal is to provide safer roads for the traveling public and reduce maintenance costs. Objective The object of this experimental project was to install a road condition-weather monitoring system to provide data on pavement surface and atmospheric conditions. This equipment without sending an operator to check conditions on site. The Department of Transportation expects this system to reduce the incidence of ice related accidents occuring on the 1-94 Red River structure. This would be accomplished by alerting maintenance forces to predicted icing conditions and by tracking and forecasting incoming weather systems. The ultimate goal is to provide safer roads for the traveling public and reduce maintenance costs. Scone The Road Condition - Weather Monitoring System is located on Interstate I-94 in the Fargo District and covers the area of the Red River Structure. The accuracy of the forecast and accident reports was used to evaluate the project annually for 3 years. Summary The North Dakota Department of Transportation contracts with Surface Systems, Inc. (SSI) to receive weather forecasts twice a day at the Fargo District during the winter months. The cost for six months of service during the winter of 1995/1996 was \$2,750.00 or \$458.50 a month. For the winter of 1996/				
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