

P R E C I S I O N C O N C R E T E
C U T T I N G

"Keep the Sidewalk, Remove the Liability"

TRIP HAZARD REMOVAL - 15 YEAR EVALUATION



Sidewalk Longevity Review

Background

Precision Concrete Cutting's business is to employ its proprietary saw cutting technology to decrease the risk of trip and fall accidents and to address the change in level requirement as outlined in the Americans With Disabilities Act (ADA). The company began operations in Provo, Utah in 1992 shortly after the ADA was published. The company's technique has evolved over the past 15 years to the system it currently uses today, which relies upon the use of patents published beginning in 2002. The company has a number of branch operations owned and operated locally.

Purpose

The company's correction of "trip hazards" (as they are commonly referred) exposes the aggregate sub-surface of the sidewalk concrete. As the question has arisen as to the structural integrity of the sidewalk panel as time goes on, the company has been asked to photograph and evaluate the earliest work it performed in 1992 for a variety of factors. These factors include, spalling, cracking, and general condition. The intent of this evaluation is to determine the longevity of the saw cutting method as a solution to trip-hazard repair.

First Work

The area that was evaluated was between 2nd West and 3rd West on the street of 700 North. This area of sidewalk evaluated was originally designated by the city of Provo, Utah for trip hazard removal and was part of a test program to determine the acceptance among city engineers and other public works staff. These cuts were made during the week of October 12 - 16, 1992 by Jason Taylor. The work was the first in what became an ongoing contract with the city. Since 1992, the city has contracted with Precision Concrete Cutting to remove trip hazards every year, including a contract that has been issued for work to start in 2008.

Methodology

In determining whether the sidewalk has been spalled a visual inspection was done looking for the rock portion of the aggregate to have eroded or chipped out of the exposed section. In evaluating the sidewalk for cracks, a visual inspection was conducted. The examiner looked for both the presence of large as well as hairline cracks. The general condition evaluation looks at the functionality now that roughly 15 years has past since the cuts were made. These cuts were of particular interest because of age, but also because the city during a number of years used salt for snow melting during Winter months. Provo gets an average of 60.4 inches of snow per year and has an average January low temperature of 22.5 degrees and an average high July temperature of 93.4 degrees.

Contact Information

Any questions regarding the photographs taken or the evaluation of the cut portion of the sidewalk can be directed to Matthew Haney, 801-830-4060.

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Spalling : None
Cracking: None
General Condition: Sidewalk condition seems to be free of any structural issues.



Spalling: None
Cracking: None
General Condition: Sidewalk condition seems to be good with out any cracks or spalling concern.



Spalling: None
Cracking: None
General Condition: Originally the sidewalk was corrected using an asphalt ramp. Some asphalt remains on adjacent panel.



Spalling: None
Cracking: None
General Condition: Good, no structural issues.



Spalling: None
Cracking: None
General Condition: Cut portion has dulled in color to more closely match the original surface. No structural integrity issues.



Spalling: None
Cracking: None
General Condition: Good condition. No issues.

Conclusion

The evaluation of these sidewalk cuts, now over 15 years after being performed, tested well, with no structural integrity concerns, spalling, or cracking. If desired, further photographs can be provided along with evaluations.