



# CITY OF RAPID CITY

## Engineering Services

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### MEMORANDUM

TO: Dirk Jablonski, P.E.  
Director of Public Works

FROM: John Less, P.E.  
Traffic Engineer

SUBJECT: Request for Pre-approval of Contract Change Order  
Solar Powered School Zone Beacons & School Speed Zone Signs  
Project No. SIG06-1617, CIP #50638  
Vision 2012 Program

DATE: April 4, 2007

Engineering Services ordered forty-six (46) solar powered school zone beacons and associated school speed zone signs; this quantity was based on the original location maps developed in conjunction with the Vision 2012 funding discussions. In the process of installing the purchased beacons staff has had to take into consideration (1) the Manual on Uniform Traffic Control Devices (MUTCD), and, (2) existing conditions on the ground, i.e. utility conflicts, tree obstructions, etc. Based on these considerations, and to enhance the effectiveness of the original project, staff is recommending the installation of additional beacons at the locations cited below (see also attached map):

- Corral Elementary – Corral Drive, west of Park Drive (one beacon).
- Horace Mann Elementary – West Boulevard N., north of Anamosa Street (one beacon).
- Knollwood Elementary – E. Anamosa Street at Milwaukee Street (two beacons).
- Pinedale Elementary – W. Main Street, west of 44<sup>th</sup> Street (two beacons).
- South Canyon Elementary – W. St. Louis Street, east of Nordby Lane (one beacon).

Additionally, staff recommends purchasing one beacon to have on hand for repair/replacement purposes. The total additional cost for the eight (8) beacons and associated signing is seventeen thousand four hundred dollars (\$17,400).

If the proposed beacons are not installed, staff will make the necessary field adjustments and install appropriate static signing to ensure that those particular school locations comply with the MUTCD.



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# LOCATION MAP PROPOSED ADDITIONAL SOLAR SCHOOL BEACONS

Add'l beacon for Horace Mann E.S.

Add'l beacons for Knollwood E.S.

Add'l beacons for Pinedale E.S.

Add'l beacon for South Canyon E.S.

Add'l beacon for Corral E.S.

