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EDWARDS & DANIELS

June 25, 2007
Job No. 0258-002-06

Catholic Diocese of Salt Lake City
% EDA Architects
111 East Broadway, Suite 200
Salt Lake City, Utah 84111

Attention: Ms. Stephanie McCarthy

Ladies and Gentlemen:

Re: Supplemental No. 1
Geotechnical Study
Proposed St. Andrew the Apostle Facility
Southeast Corner of 11800 South Street
and 3600 West Street
Riverton, Utah

1. INTRODUCTION

This supplemental letter addresses additional questions raised subsequent to the submittal of our report dated May 9, 2006¹. The following recommendations should be added to the original report.

2. ROADWAY PAVEMENT SECTIONS

At the request of Ms. Stephanie McCarthy of EDA Architects, roadway pavement sections were developed for 11800 South Street and 3600 West Street in Riverton, Utah. Estimated traffic data was provided by Hales Engineering in a study dated June 5, 2007².

To aid in developing the pavement sections, the following Projected Average Daily Traffic for 2020 was provided by representatives of Hales Engineering. Both roadways are two lanes with one lane in each direction. Half of the following projected average daily traffic is used for the pavement design. The Projected Average Daily Traffic for 2020 are tabulated on the following page.

¹ "Report, Geotechnical Study, Proposed St. Andrew the Apostle Facility, Southeast Corner of 11800 South Street and 3600 West Street, Riverton, Utah," GSH Job No. 0258-002-06.

² "St. Andrews School, Traffic Impact Study, Riverton, Utah," Hales Engineering Job No UT07-054.

| Street | Projected Average Daily Traffic for 2020 (total - both ways) |
|--------------------|--|
| 3600 West Street | 6,570 |
| 11800 South Street | 4,820 |

The following CBR values were utilized in the pavement analysis:

| Material Type | CBR value |
|---------------|-----------|
| Subgrade | 5 |
| Subbase | 20 |
| Base | 60 |

The following traffic type's percentages were utilized in the pavement analysis:

| 11800 South Street (Traffic Type) | Percentage | Design Traffic | E.S.A.L. Factor | Design E.S.A.L. |
|-----------------------------------|------------|----------------|-----------------|-----------------|
| Heavy Trucks | 3% | 72.3 | 1.51 | 109.4 |
| Moderate Weight Trucks | 12% | 289.2 | 0.13 | 37.7 |
| Light Trucks and Cars | 85% | 2048.5 | 0.0035 | 7.2 |
| Total E.S.A.L. | | | | 154 |

| 3600 West Street (Traffic Type) | Percentage | Design Traffic | E.S.A.L. Factor | Design E.S.A.L. |
|---------------------------------|------------|----------------|-----------------|-----------------|
| Heavy Trucks | 3% | 98.6 | 1.51 | 149.2 |
| Moderate Weight Trucks | 12% | 394.2 | 0.13 | 51.4 |
| Light Trucks and Cars | 85% | 2792.3 | 0.0035 | 9.8 |
| Total E.S.A.L. | | | | 210 |

The existing natural fine-grained soils encountered at the site will exhibit extremely poor pavement support characteristics when saturated or near saturated. For these subgrade conditions and based upon projected traffic loadings for a 20 year life, the pavement sections on the following page are recommended.

3600 West Street
[210 equivalent 18-kip axle load per day]

Flexible:

| | |
|-------------|---|
| 6.0 inches | Asphalt concrete |
| 13.0 inches | Aggregate base |
| Over | Properly prepared natural soils and/or structural site grading fill extending to suitable natural soils |

11800 South Street
[154 equivalent 18-kip axle load per day]

Flexible:

| | |
|-------------|---|
| 5.5 inches | Asphalt concrete |
| 12.5 inches | Aggregate base |
| Over | Properly prepared natural soils and/or structural site grading fill extending to suitable natural soils |

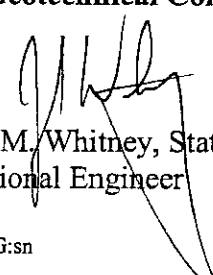
Alternative equivalent pavement sections could be developed utilizing a subbase component. The overall pavement section would be thicker but the aggregate base component could be reduced.

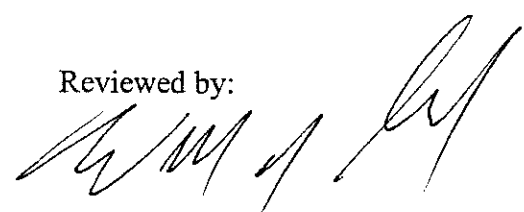
We appreciate the opportunity of providing this service for you. If you have any questions or require additional information, please do not hesitate to contact us.

Respectfully submitted,

GSH Geotechnical Consultants, Inc.

Reviewed by:


Joshua M. Whitney, State of Utah No. 6252902
Professional Engineer


William J. Gordon, State of Utah No. 146417
Professional Engineer

JMW/WJG:sn

Addressee (3)

