GSH
Gordon Spilker Huber
Geotechnical Consultants, Inc.

January 25, 2008
Job No. 0219-006-07

Riverton Depot 10 LLC
90 East 7200 South #200
Midvale, Utah 84047-1565

Attention: Mr. Mike Stangl

Ladies and Gentlemen:

Re: Addendum No. 1 (updated)
Report
Geotechnical Study
Proposed Kohl's Department Store
and Adjoining Facilities
West of 3600 West and North of 13400 South Street
Riverton, Utah

These items supplement our report dated August 21, 2007[1] and Addendum No. 1 dated August 23, 2007[2] must be attached thereto.

1. PAD PREPERATION NOTE

Unless specifically indicated otherwise in the drawings and/or specifications, the limits of this subsurface preparation are considered to be that portion of the site directly beneath and 10 feet beyond the building and appurtenances.

Appurtenances are those items attached to the building proper typically including, but not limited to, the building sidewalks, porches, ramps, stoops, truck wells/docks, compactor pad, etc. The base and the vapor barrier, where required, do not extend beyond the limits of the actual building and the appurtenances.

Establish the final subgrade elevation at 10 inches below the finished floor elevation to allow for a 6-inch slab and a 4-inch base provided by the building contractor. The base shall consist of

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1 "Report, Geotechnical Study, Proposed Kohl's Department Store and Adjoining Facilities, West of 3600 West and North of 13400 South Street, Riverton, Utah," GSH Job No. 0219-006-07.

2 "Addendum No. 1, Report, Geotechnical Study, Proposed Kohl's Department Store and Adjoining Facilities, West of 3600 West and North of 13400 South Street, Riverton, Utah," GSH Job No. 0219-006-07.

aggregate base material. The contractor is responsible for obtaining accurate measurements for all cut and fill depths required.

Existing foundations, slabs, pavements, and below grade structures shall be removed from the building and pavement areas. Organic material, existing non-engineered fill, and the remaining portions of the surface six to eight inches of loose soils must either be: 1) scarified, moisture prepared, and recompacted in-situ to the requirements for structural fill; or 2) removed and subsequently re-utilized as structural site grading fill after the subgrade has been proofrolled

If the soils within the area of the building pad are comprised of rock and require blasting in order for such soils to be of suitable composition for the excavations customarily made for Kohl's footings and utility installations, then the developer shall cause such blasting to take place prior to the date of the testing necessary for the compaction certification. Bedrock is not anticipated.

2. GEOTECHNICAL SUMMARY SHEET

Copy attached.

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,

Gordon Spilker Huber Geotechnical Consultants, Inc.

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

WJG:sn

Encl. Geotechnical Summary Sheet

Addressee (3 + email)
c: Ms. Amanda O'Connor (1 + email)
Galloway
5350 DTC Parkway
Greenwood Village, Colorado 80111

Mr. Robert F. Doren, P.E., Site Developer Manager (1 + email)
Kohl's Department Stores, Inc.
N56 W17000 Ridgewood Drive
Menomonee Falls, Wisconsin 53051

KOHL'S
Department Stores

GEOTECHNICAL INVESTIGATION SUMMARY SHEET

GENERAL INFORMATION

PROJECT LOCATION:	Southeast Corner of 3600 West and Market Center Drive, Riverton, Utah
GEOTECHNICAL ENGINEERING COMPANY:	GSH Geotechnical Consultants, Inc.
ADDRESS:	4426 South Century Drive, Suite 100, Salt Lake City, Utah 84123
PHONE/FAX #:	(801) 685-9190 / (801) 685-2990
CONTACT PERSON/AUTHOR:	Bill Gordon
REPORT DATE:	21-Aug-07

SITE SOILS CHARACTERISTICS

SOIL DESCRIPTION:	Silty Clays with trace sand to 4.5' to 8.0'. Granular soils below.
GROUNDWATER ELEVATION (IMMEDIATE/24 HR.) :	Not encountered to 31.5'.
ROCK ELEVATION :	n/a
TOPSOIL/STRIPPING DEPTH:	3" to 4"
"CBR" VALUES	3% used in analysis
MODIFIED PROCTOR RESULTS:	To be performed at initiation of site earthwork operations

PAVEMENT & SUBGRADE DESIGN

PAVEMENT DESIGN	STANDARD DUTY PAVEMENT		HEAVY DUTY PAVEMENT	
SURFACE COURSE (DEPTH - MATERIAL) :	3.0"	3.5" asphalt concrete	4.0"	4.5" asphalt concrete
BASE COURSE (DEPTH - MATERIAL) :	6.0"	10.0" aggregate base	6.0"	11.0" aggregate base
SUBBASE COURSE (DEPTH - MATERIAL) :	8.0"*	--- granular subbase	12.0"*	--- granular subbase
STABILIZED SUBGRADE (DEPTH - MATERIAL) :	Proofroll		Proofroll	
	*Granular structural site grading fill will satisfy this requirement			
PAVEMENT SUBGRADE DESCRIPTION:	Natural Silty Clay			
MAXIMUM LIQUID LIMIT/PLASTIC LIMIT:	38/18			
SPECIFIED COMPACTION/MOISTURE CONTENT:	Proofroll natural subgrade. Structural fill 90% Modified Proctor			
MAX. LIFT THICKNESS (MEASURED LOOSE) :	8"			

FOUNDATION & BUILDING SLAB DESIGN

FOUNDATION TYPE:	Spread and Continuous Wall	
ALLOWABLE BEARING PRESSURE (3 KSF TYPICAL):	2.5 ksf	
MINIMUM FOOTING DIMENSIONS		
INDIVIDUAL:	24"	
CONTINUOUS:	18"	
MINIMUM FOOTING EMBEDMENT		
EXTERIOR:	30"	
INTERIOR: no frost	15"	
MAX. FOUNDATION SETTLEMENTS(1"TOTAL, 1/2"DIFF. TYP.):	TOTAL: 5/8"	DIFFERENTIAL ≤ 3/8"
FACTORS OF SAFETY:	Bearing Capacity 3+	
FROST DEPTH:	30"	
STRUCTURAL FILL DESCRIPTION:	Well-graded silty sands and gravels - minimum 20 % fines. Silty clay	
TOTAL DEPTH:	See Site Grading Plan	
MAXIMUM LIQUID LIMIT/PLASTIC LIMIT:	38/18 for silty clay soil	
SPECIFIED COMPACTION/MOISTURE CONTENT:	95% / AASHTO T-180	
MAX. LIFT THICKNESS (MEASURED LOOSE) :	8"	
SUBGRADE MODULUS (MIN. 150 PSI/IN):	150 pci with minimum 4" aggregate base over subgrade	
VAPOR BARRIER/CAPILLARY BREAK DESCRIPTION:	4" Aggregate base	
SUBGRADE HOLD DOWN LIMIT:	10"	
SLAB-POTENTIAL VERTICAL RISE:	Frost Heave 1.0" outside slabs 0.0" inside slabs	

* Note: Not to be used separately from soils report.