

JORDAN Consulting Engineers, Inc.

February 26, 2004

Joe London
Western Plains Resources
P.O. Box 457
Frisco, Texas 75034

RE: RETAINING WALL CONSTRUCTION RECORD
Hillcrest Shores, phase 3, Rockwall, Texas

Gentlemen:

At the request of Mr. Joe London of Western Plains Resources, this office provided engineering services for the retaining wall construction at the above captioned site. The scope of the services consisted of review of available design documents, preparation of gravity wall details dated September 4, 2002, slope stability analysis and preparation of structural design details for Block 'B', Lots 4 through 7, dated revised October 31, 2003, consultation during construction and preparation of three supplemental details and two letters (attached herewith), intermittent observation of the wall construction, and full time observation of drilled pier installation. Seven site visits were made between January 31 and April 23, 2003. Thirty site visits were made between October 20, 2003, and January 26, 2004.

These services were performed in accordance with generally accepted engineering practice. No other warranty or guarantee, either express or implied, is provided. Observations were made only to form a general opinion regarding the construction.

Documents reviewed include:

Grading Plan, by Dowdey, Anderson, and Associates, Inc. dated September 2001;
Geotechnical Data Report, Proposed Retaining Wall, by Fugro-South, Inc., dated February 28, 2003;
Additional Geotechnical Data Report, Proposed Retaining Wall, by Fugro-South, Inc., dated July 25, 2003;

Revisions to the wall schedule were made for gravity walls at three locations. The Parkview Drive wall above the pond was moved to 20 feet beyond the back of curb. No surcharge from the street is now expected; the wall schedule in the attached letter dated December 15, 2003 was superceded. The pond slope exceeds the maximum allowed by the original wall detail so the wall schedule was revised from 2,000 psf to 1,500 psf allowable bearing. See the schedule in the attached letter dated revised January 12, 2004. A footing drain (Detail 3, Sheet 1) was installed at the low point. The Lake Forest Drive creek culvert head walls at Lake Glen Circle were also built for 1,500 psf allowable bearing.

Revisions were made to the structural wall at Block 'B', Lots 3 through 7, as follows: 1) A new detail was provided for footing dowels and the stone walls were built atop the footings in accordance with the original gravity wall schedule. 2) Errors were discovered in the field survey on Lot 5 after pier installation. The staked bottom of wall elevations did not align properly. The wall elevations were revised to fit and two new details were provided.

Based on the services summarized herein, I conclude that the walls are constructed in substantial accordance with the intended design and should perform satisfactorily for the anticipated loads and service conditions. The wall designs satisfy requirements of Section 1611.6 of the 1997 Uniform Building Code and Section 1806 of the 2003 International Building Code. I trust this provides you with the information required at this time. Please call if you have any questions or if I can be of further service.

Respectfully submitted,



Gerald J. Jordan, P.E.

Attachments: Letters dated December 15, 2003 and January 12, 2004,
Drilled Pier Log and Revised Pier Elevations chart,
Revision details 1 and 2 dated December 7, 2003,
Footing Dowel detail dated December 4, 2003,
Grout inspection and Compression Test reports (6),
Concrete inspection and Compression Test reports (4).

CC: Eddie Collins / Rockwall Shores, Ltd.
City of Rockwall / Engineering Dept.
Dowdey-Anderson



JORDAN Consulting Engineers, Inc.

December 15, 2003

Joe London
Western Plains Resources
P.O. Box 457
Frisco, Texas 75034

RE: SURCHARGE RETAINING WALL SCHEDULE
Hillside Shores, phase III, Rockwall, Texas

Gentlemen:

Per the request of Joe London of Western Plains Resources, I have evaluated three gravity retaining wall locations at the two creek culvert crossings on Lake Forest Drive and the pond wall location on Park View Drive. The scope of work consisted of site visits, analysis, and preparation of additional Retaining Wall Schedules.

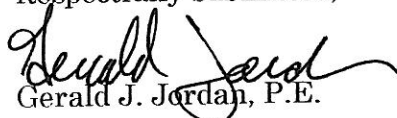
For Park View Drive, the following Surcharge schedule should be used. Use this schedule whenever the road is located 10+/- feet from planned retaining walls. For walls 5.0 feet or less in retained height, use the existing wall schedule. Portions of the planned walls will be on fill. As discussed, the wall is to be deepened below any un-compacted or loose fill or the fill should be removed and replaced as compacted fill with 95 percent compaction.

RETAINING WALL SCHEDULE – ROAD SURCHARGE					
HEIGHT (FT)	6	7	8	9	10
BASE WIDTH (IN)	36	42	54	60	72
DEPTH (IN)	8	12	12	12	12

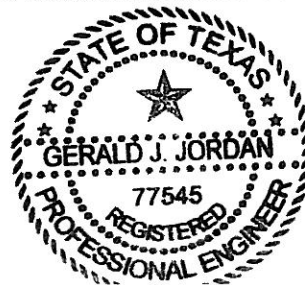
Probing of the creek bottoms revealed about two feet of soft soil at the proposed wing wall of the western culvert and at the north side of the east culvert. At the south side of the east culvert, soft soil was found to a depth of about five feet. All soft sediment or erodible top soil should be removed from under the planned wall location to expose stiff undisturbed clay. The over excavation should be filled with stone masonry or lean mix concrete and the wall established at planned grades and heights. No surcharge is expected. Use the existing wall schedule.

I trust this letter provides you with the information you require at this time. Please call if you have questions or if I can be of further service.

Respectfully submitted,


Gerald J. Jordan, P.E.

2480 Highway 287 North, Suite 105
Mansfield, Texas 76063



phone 817 453-8070
fax 817 453-8071

JORDAN Consulting Engineers, Inc.

January 2, 2004
Revised January 12, 2004

Joe London
Western Plains Resources
P.O. Box 457
Frisco, Texas 75034

RE: REVISED PARK VIEW DRIVE RETAINING WALL SCHEDULE
Hillside Shores, phase III, Rockwall, Texas

Gentlemen:

Per the request of Joe London, this letter provides a new retaining wall schedule for the retaining wall at the site referenced above. No surcharge is expected for the current wall location. Factors of Safety for sliding and overturning stability should be at least 1.75 and 2.0, respectively.

RETAINING WALL SCHEDULE*								
HEIGHT (FT)	1	2	3	4	5	6	7	8
BASE WIDTH (IN)	12	12	18	24	30	40	48	60
DEPTH (IN)	6	6	12	18	18	18	24	24

* Maximum 1,500 psf bearing; 5:1 (H:V) toe slope; 4:1 top slope

I trust this letter provides you with the information you require at this time. Please call if you have questions or if I can be of further service.

Respectfully submitted,


Gerald J. Jordan, P.E.

Cc: Michael Dowdy / Dowdy-Anderson



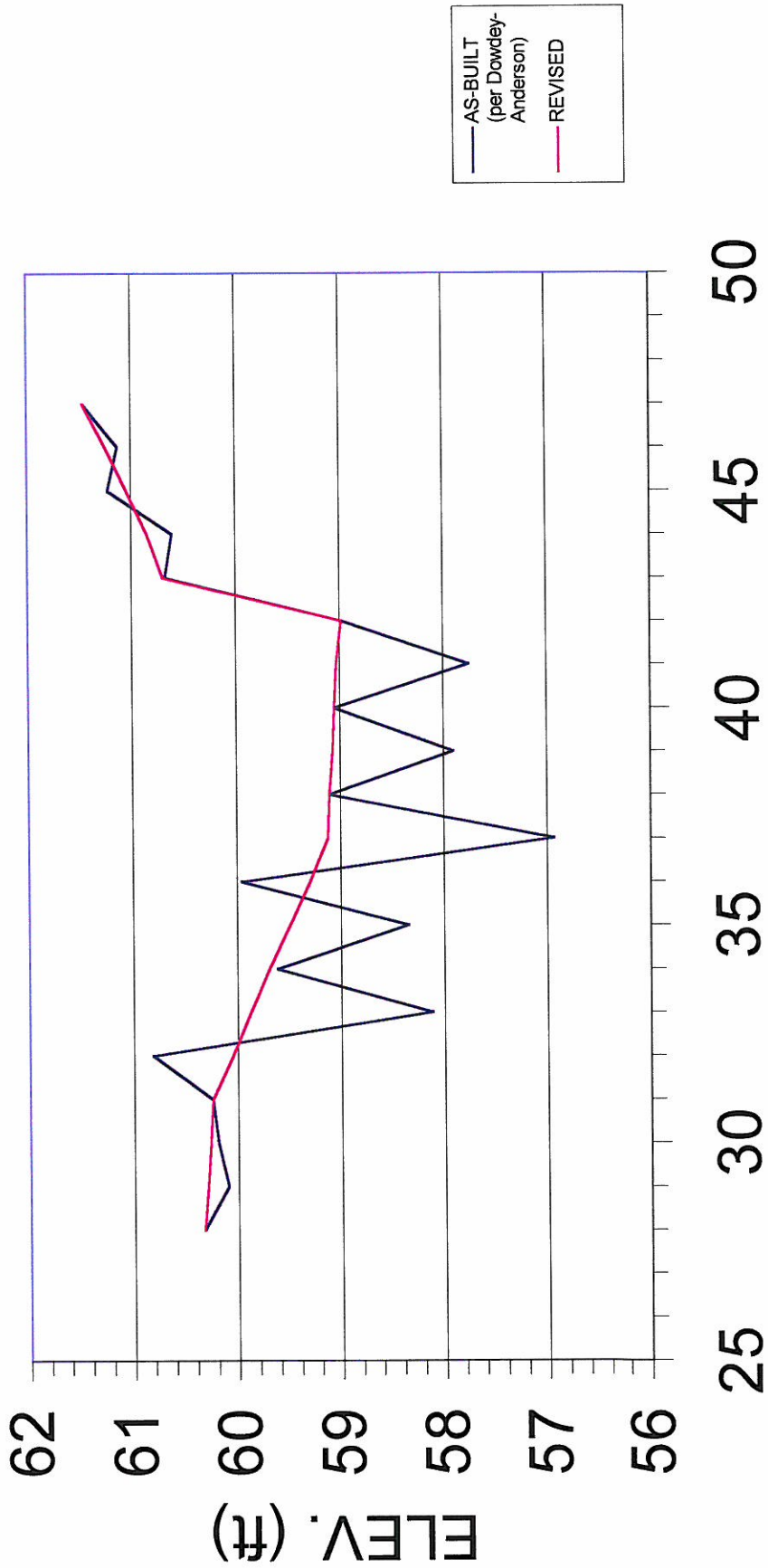
HILLCREST SHORES, PHASE 3
ROCKWALL, TEXAS

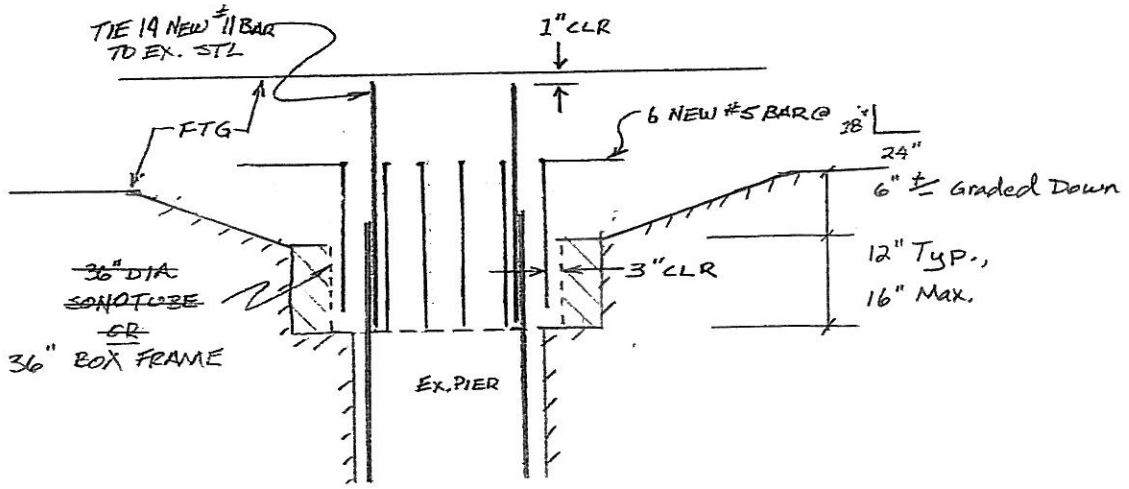
PIER NO.	HUB ELEV	CUT/FILL (-/+)	PLAN BOW	DRILLED DEPTH (ft)	DEPTH TO ROCK (ft)	SOCKET LENGTH (ft)	PIER LENGTH (ft)
5200	464.7	0.20	464.90	21	8.4	9.9	18.3
5201	465.63	-0.40	465.23	18.8	7.9	8.3	16.2
5202	466.13	-0.53	465.60	21.5	8.0	10.7	18.7
5203	465.9	-0.10	465.80	19.9	6.7	10.7	17.4
5204	466.36	-0.56	465.80	22	8.0	11.0	19
5205	465.94	-0.04	465.90	21.6	11.1	8.2	19.3
5206	465.99	-0.10	465.89	23.1	12.3	8.3	20.6
5207	466.57	-0.50	466.07	24.4	13.9	8.0	21.9
5208	466.08	-0.80	465.28	25.7	13.4	8.1	21.5
5209	465.6	-0.80	464.80	23	11.8	8.9	20.7
5210	464.47	-0.37	464.10	22	9.8	8.5	18.3
5211	464.17	-0.05	464.12	23.9	12.7	8.1	20.8
5212	463.49	-0.3	463.19	22.1	10.7	8.3	19
5213	463.18	-0.4	462.78	23.2	11.9	8.5	20.4
5214	462.46	-0.2	462.26	22.6	11.2	8.3	19.5
5215	461.84	0.2	462.04	24.8	14.0	8.0	22
5216	461.66	-0.2	461.46	20.5	9.9	8.0	17.9
5217	461.16	0.4	461.56	21.8	10.9	8.0	18.9
5218	460.93	-0.2	460.73	22.4	11.2	8.2	19.4
5219	460.63	-0.1	460.53	24.3	13.4	8.0	21.4
5220	460.12	-0.12	460.00	23.2	12.1	8.0	20.1
5221	459.84	-0.1	459.74	25.8	15.1	8.0	23.1
5222	459.52	-0.3	459.22	22.3	11.7	8.0	19.7
5223	459.2	-0.3	458.90	22.4	10.7	8.6	19.3
5224	459.1	0.2	459.30	20.1	10.4	8.4	18.8
5225	460.06	-0.6	459.46	20	9.8	8.1	17.9
5226	460.16	-1.3	458.86	18.7	8.3	8.0	16.3
5227	460.82	-0.1	460.72	20.3	9.6	8.0	17.6
5228	462.65	-1.1	461.55	16	4.4	8.0	12.4
5229	463.21	-0.6	462.61	17.3	6.2	8.0	14.2
5230	462.03	-0.2	461.83	16	5.3	8.0	13.3
5231	462.72	-0.9	461.82	16	4.8	7.8	12.6
5232	460.45	1.8	462.25	16.6	7.7	8.1	15.8
5233	462.05	-2.3	459.75	16	3.2	8.0	11.2
5234	459.62	2.3	461.92	16.1	8.0	8.0	16
5235	461.18	-0.9	460.28	16.7	5.6	8.0	13.6
5236	459.93	1.4	461.33	17.8	8.8	8.0	16.8
5237	460.37	-1.7	458.67	17.6	5.7	8.0	13.7
5238	459.84	0.6	460.44	18.4	8.5	8.0	16.5
5239	460.43	-0.6	459.83	17.8	6.4	8.4	14.8
5240	460.12	0.3	460.42	17.6	7.4	8.0	15.4
5241	460.25	-0.4	459.85	17.2	5.8	8.0	13.8
5242	460.32	0.2	460.52	18.5	7.9	8.0	15.9
5243	460.55	-0.55	460.00	16.8	4.5	9.0	13.5
5244	460.66	0.44	461.10	17.5	4.6	10.2	14.8
5245	460.8	0.1	460.90	18.5	6.6	9.5	16.1
5246	460.74	0.66	461.40	17.1	4.8	10.4	15.2
5247	461.6	1.34	462.94	16.5	6.9	8.0	14.9
5248	460.69	0.11	460.80	14.6	4.2	8.1	12.3

HILLCREST SHORES, PHASE 3
 ROCKWALL, TEXAS

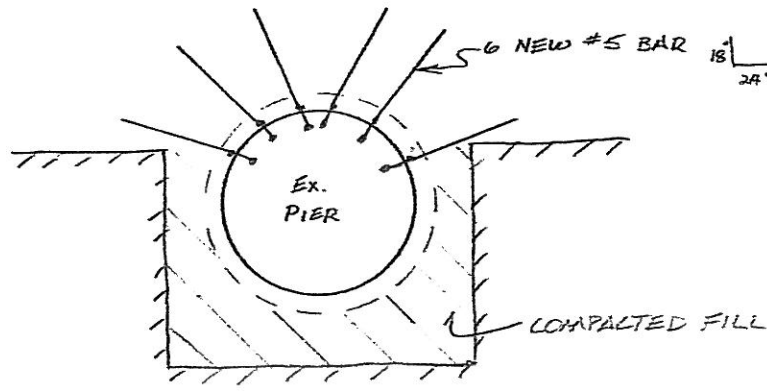
PIER NO.	HUB ELEV	CUT/FILL (-/+)	PLAN BOW	DRILLED DEPTH (ft)	DEPTH TO ROCK (ft)	SOCKET LENGTH (ft)	PIER LENGTH (ft)
5249	460.74	-0.1	460.64	15.7	5.2	8.0	13.2
5250	460.25	0.55	460.80	14.1	3.8	8.1	11.9
5251	459.51	0.7	460.21	15.6	5.5	8.4	13.9
5252	460.11	0.6	460.71	15.6	4.7	8.4	13.1
5253	460.22	0.1	460.32	16.8	5.6	8.8	14.4
5254	459.79	0.6	460.39	17.8	7.1	8.4	15.5
5255	459.7	0.2	459.90	20.2	7.1	10.4	17.5
5256	459.6	-1	458.60	19.6	7.4	8.2	15.6
5257	457.86	-0.3	457.56	20.7	9.1	9.0	18.1

REVISED PIER ELEVATION





ELEVATION

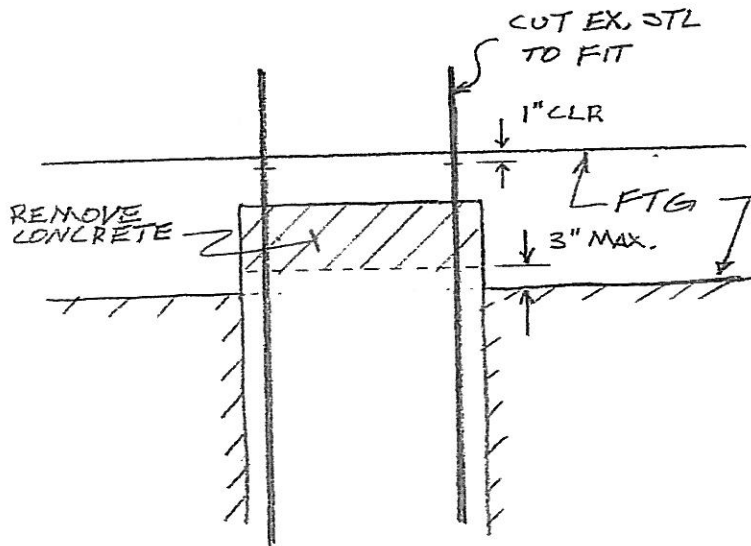


PLAN


STATE OF TEXAS
 ★
 GERALD J. JORDAN
 77545
 REGISTERED PROFESSIONAL ENGINEER
Gerald Jordan
 12/7/03

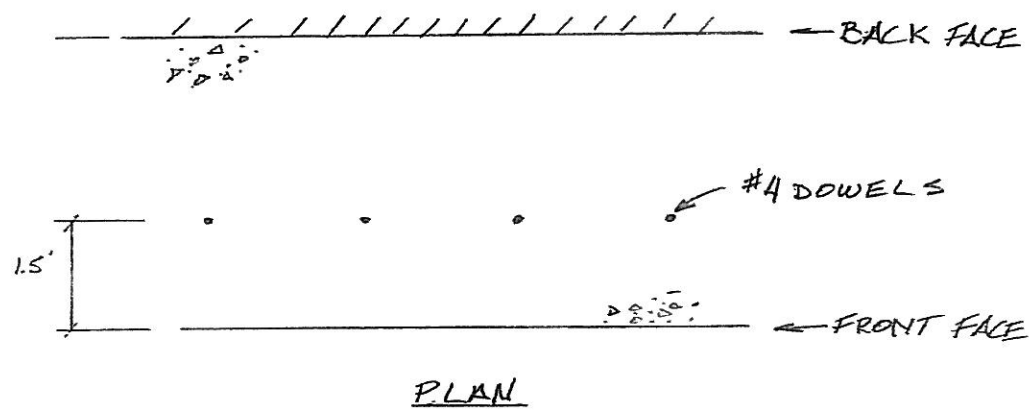
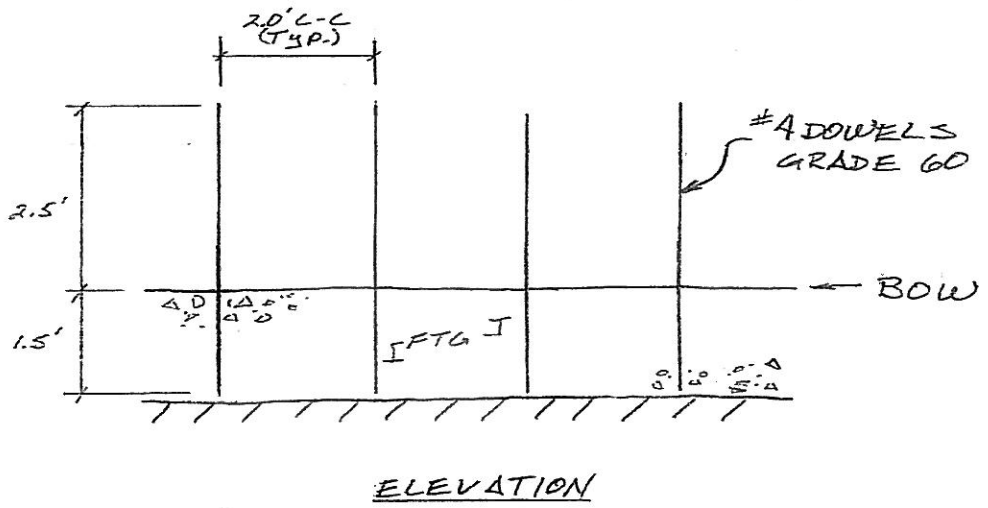
	JORDAN CONSULTING ENGINEERS <small>2400 HIGHWAY 287 NORTH, SUITE 105 MARSHALL, TEXAS 75683 817-453-8070</small>			
	REVISION, PIERS #33, 35, 37, 39, 41 HILLCREST SHORES, 3 ROCKWALL, TX			
DRAWN BY	SCALE	DATE	PRJ. NO.	SHEET NO.
	NTS	12/7/03	875	1 OF 2

2/19/04 REVISED, AS-BUILT *BJ*



STATE OF TEXAS
 GERALD J. JORDAN
 77545
 REGISTERED PROFESSIONAL ENGINEER
Gerald Jordan
 12/7/03

		JORDAN CONSULTING ENGINEERS <small>2400 HIGHWAY 287 NORTH, SUITE 105 MARSHFIELD, TEXAS 76053 817-453-8370</small>		
REVISION, PIERS #32 & 36 HILLCREST SHORES, 3 ROCKWELL, TX				
<small>DRAWN BY</small> NTS	<small>SCALE</small> NTS	<small>DATE</small> 12/7/03	<small>PROJ. NO.</small> 875	<small>SHEET NO.</small> 2 of 2



NOTE: FTG STEEL NOT SHOWN.
SEE SHT 1 OF 2

STATE OF TEXAS
 GERALD J. JORDAN
 77545
 REGISTERED PROFESSIONAL ENGINEER
Gerald J. Jordan 12/4/03

	JORDAN CONSULTING ENGINEERS 2480 HIGHWAY 287 NORTH, SUITE 105 MANSFIELD, TEXAS 76063 817-453-8070			
	FOOTING DOWELS HILLCREST SHORES, III ROCKWALL, TEXAS			
DRAWN BY <i>BJ</i>	SCALE NTS	DATE 12/4/03	PROJ. NO. B75	SHEET NO. APP.

ALLIANCE GEOTECHNICAL GROUP
GEOTECHNICAL AND CONSTRUCTION MATERIALS ENGINEERING AND TESTING
 10610 Newkirk Street, Suite 202, Dallas, Texas 75220 Phone: 972-444-8889 Fax: 972-444-8893

GROUT INSPECTION AND COMPRESSION TEST REPORT

CLIENT: Western Plains
PROJECT: Miscellaneous Grout Testing
 Hillcrest Shores - Phase 3
AGG REPORT #: C02-0708-013
REPORT DATE: 4/14/03

DISTRIBUTION:
 Joe London - Western Plains

SPECIFICATIONS		PROJECT DATA	
Strength (psi):	2000	Placement Date:	3/15/03
Slump (in.):	2 - 4	Sampled By:	Tom Pennell
Air Content (%):	12 - 16	Weather:	
Concrete Temp (°F):	95 max	Supplier/Mix:	

FIELD DATA SET #13

Ticket #: _____ Time Batched: _____ Time Sampled: _____
 Slump (in.): 4.00 Air Content: 16.6 Unit Weight: _____
 Conc. Temp. (°F): 60 Ambient Temp. (°F): 60 Yardage (c.y.): _____
 Placement Location: Hillcrest Shores - Phase 3
 Remarks: Sampled By Tom Pennell with Rodman Paving

FIELD DATA SET #

Ticket #: _____ Time Batched: _____ Time Sampled: _____
 Slump (in.): _____ Air Content: _____ Unit Weight: _____
 Conc. Temp. (°F): _____ Ambient Temp. (°F): _____ Yardage (c.y.): _____
 Placement Location: _____
 Remarks: _____

CONCRETE COMPRESSION TEST RESULTS
 CYLINDERS MOLDED AND CURED PER ASTM C31, TESTED PER ASTM C39

Set #	Cylinder #	Test Date	Age (Days)	Max. Load (lbs)	Area (sq. in.)	Strength (psi)	FC	Notes
	A	3/19/03	4	15970	7.07	2260	D	
13	B	3/22/03	7	16770	7.07	2370	D	
	C	4/12/03	28	21400	7.07	3030	D	
	D	4/12/03	28	18860	7.07	2670	D	

- (1) NORMAL CYLINDER SIZE 6" X 12", AREA 28.27 sq. in., UNLESS NOTED ABOVE.
- (2) FAILURE TYPE A=CONE, B=CONE AND SPLIT, C=CONE AND SHEAR, D=SHEAR, E=COLUMNAR
- (3) TEST RESULTS COMPLY WITH PROJECT SPECIFICATIONS UNLESS INDICATED IN NOTES.
- (4) FIELD TESTS ARE PER APPLICABLE ASTM STANDARDS: C138, C143, C172, C231

Note: This report is for the exclusive use of the Client addressed. This report may not be reproduced except in its entirety, without the written consent of AGG. Results apply only to above tests.

Mark E. Edgett
ALLIANCE GEOTECHNICAL GROUP

ALLIANCE GEOTECHNICAL GROUP
GEOTECHNICAL AND CONSTRUCTION MATERIALS ENGINEERING AND TESTING
 10610 Newkirk Street, Suite 202, Dallas, Texas 75220 Phone: 972-444-8889 Fax: 972-444-8893

CONCRETE INSPECTION AND COMPRESSION TEST REPORT

CLIENT: Western Plains
PROJECT: Miscellaneous Grout Testing
 Hillcrest Shores - Rockwall, Texas
AGG REPORT #: C02-0708-025
REPORT DATE: 01/07/04

DISTRIBUTION:
 Rodman Paving - Tom Pennell

SPECIFICATIONS		PROJECT DATA	
Strength (psi):	4000	Placement Date:	12/09/03
Slump (in.):	3 - 5	Sampled By:	Tom Pennell
Air Content (%):	4 - 6	Weather:	
Concrete Temp (°F):	95 max	Supplier/Mix:	

FIELD DATA SET #1			
Ticket #:	-	Time Batched:	-
Slump (in.):	-	Air Content:	-
Conc. Temp. (°F):	-	Ambient Temp. (°F):	-
Time Sampled:	-	Unit Weight:	-
Placement Location:	Wall Footings	Yardage (c.y.):	-
Remarks:	Contractor Made		

FIELD DATA SET #2			
Ticket #:		Time Batched:	
Slump (in.):		Air Content:	
Conc. Temp. (°F):		Ambient Temp. (°F):	
Time Sampled:		Unit Weight:	
Placement Location:		Yardage (c.y.):	
Sample Location:			

CONCRETE COMPRESSION TEST RESULTS								
CYLINDERS MOLDED AND CURED PER ASTM C31, TESTED PER ASTM C39								
Set #	Cylinder #	Test Date	Age (Days)	Max. Load (lbs)	Area (sq. in.)	Strength (psi)	FC	Notes
	A	12/12/03	3	69630	28.27	2460	D	
1	B	12/16/03	7	110470	28.27	3910	D	
	C	01/06/04	28	138720	28.27	4910	C	
	D	01/06/04	28	138780	28.27	4910	C	

- (1) NORMAL CYLINDER SIZE 6" X 12", AREA 28.27 sq. in., UNLESS NOTED ABOVE.
- (2) FAILURE TYPE A=CONE, B=CONC AND SPLT, C=CONC AND SHEAR, D=SHEAR, E=COLUMNAR
- (3) TEST RESULTS COMPLY WITH PROJECT SPECIFICATIONS UNLESS INDICATED IN NOTES.
- (4) FIELD TESTS ARE PER APPLICABLE ASTM STANDARDS: C138, C143, C172, C231

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ALLIANCE GEOTECHNICAL GROUP

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GEOTECHNICAL AND CONSTRUCTION MATERIALS ENGINEERING AND TESTING

10610 Newkirk Street, Suite 202, Dallas, Texas 75220 Phone: 972-444-8889 Fax: 972-444-8893

CONCRETE INSPECTION AND COMPRESSION TEST REPORT

CLIENT: Western Plains
 PROJECT: Miscellaneous Grout Testing
 Hillcrest Shores - Rockwall, Texas
 AGG REPORT #: C02-0708-026
 REPORT DATE: 01/08/04

DISTRIBUTION:
 Rodman Paving - Tom Pennell

SPECIFICATIONS		PROJECT DATA	
Strength (psi):	4000	Placement Date:	12/11/03
Slump (in.):	3 - 5	Sampled By:	Dan Williams
Air Content (%):	4 - 6	Weather:	Clear
Concrete Temp (°F):	95 max	Supplier/Mix:	SS/9375

FIELD DATA SET #1			
Ticket #:	123039	Time Batched:	10:55 a.m.
Slump (in.):	4.00	Air Content:	4.6
Conc. Temp. (°F):	60	Ambient Temp. (°F):	54
Time Sampled:		Time Sampled:	11:35 a.m.
Unit Weight:		Unit Weight:	-
Yardage (c.y.):		Yardage (c.y.):	10 of 10
Placement Location: Footing at SE corner of Lot 4			
Remarks:			

FIELD DATA SET #2			
Ticket #:		Time Batched:	
Slump (in.):		Air Content:	
Conc. Temp. (°F):		Ambient Temp. (°F):	
Time Sampled:		Time Sampled:	
Unit Weight:		Unit Weight:	
Yardage (c.y.):		Yardage (c.y.):	
Placement Location:			
Sample Location:			

CONCRETE COMPRESSION TEST RESULTS								
CYLINDERS MOLDED AND CURED PER ASTM C31, TESTED PER ASTM C39								
Set #	Cylinder #	Test Date	Age (Days)	Max. Load (lbs)	Area (sq. in.)	Strength (psi)	FC	Notes
	A	12/14/03	3	86030	28.27	3040	C	
1	B	12/18/03	7	108810	28.27	3850	C	
	C	01/08/04	28	137180	28.27	4850	C	
	D	01/08/04	28	137620	28.27	4870	C	

(1) NORMAL CYLINDER SIZE 6" X 12", AREA 28.27 sq. in., UNLESS NOTED ABOVE.
 (2) FAILURE TYPE A=CONE, B=CONE AND SPLIT, C=CONE AND SHEAR, D=SHEAR, E=COLUMNAR
 (3) TEST RESULTS COMPLY WITH PROJECT SPECIFICATIONS UNLESS INDICATED IN NOTES.
 (4) FIELD TESTS ARE PER APPLICABLE ASTM STANDARDS: C138, C143, C172, C231

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 ALLIANCE GEOTECHNICAL GROUP

ALLIANCE GEOTECHNICAL GROUP
GEOTECHNICAL AND CONSTRUCTION MATERIALS ENGINEERING AND TESTING
 10610 Newkirk Street, Suite 202, Dallas, Texas 75220 Phone: 972-444-8889 Fax: 972-444-8893

GROUT INSPECTION AND COMPRESSION TEST REPORT

CLIENT: Western Plains
PROJECT: Miscellaneous Grout Testing
 Hillcrest Shores - Rockwall, Texas
AGG REPORT #: C02-0708-027
REPORT DATE: 01/15/04

DISTRIBUTION:
 Rodman Paving - Tom Pennell

SPECIFICATIONS		PROJECT DATA	
Strength (psi):	4000	Placement Date:	12/16.03
Slump (in.):	3 - 5	Sampled By:	Tom Pennell
Air Content (%):	4 - 6	Weather:	-
Concrete Temp (°F):	95 max	Supplier/Mix:	-

FIELD DATA SET #1

Ticket #:	-	Time Batched:	-	Time Sampled:	2:00 p.m.
Slump (in.):	5.75	Air Content:	5.2	Unit Weight:	-
Conc. Temp. (°F):	-	Ambient Temp. (°F):	-	Yardage (c.y.):	-
Placement Location:	Footing #3 - Second Truck				
Remarks:	Contractor Made Cylinders				

FIELD DATA SET #2

Ticket #:	_____	Time Batched:	_____	Time Sampled:	_____
Slump (in.):	_____	Air Content:	_____	Unit Weight:	_____
Conc. Temp. (°F):	_____	Ambient Temp. (°F):	_____	Yardage (c.y.):	_____
Placement Location:	_____				
Sample Location:	_____				

GROUT COMPRESSION TEST RESULTS
 CYLINDERS MOLDED AND CURED PER ASTM C31, TESTED PER ASTM C39

Set #	Cylinder #	Test Date	Age (Days)	Max. Load (lbs)	Area (sq. in.)	Strength (psi)	FC	Notes
1	A	12/19/03	3	64340	28.27	2280	D	
	B	12/23/03	7	96270	28.27	3410	D	
	C	01/13/04	28	131830	28.27	4660	D	
	D	01/13/04	28	131330	28.27	4650	D	

(1) NORMAL CYLINDER SIZE 6" X 12", AREA 28.27 sq. in., UNLESS NOTED ABOVE.
 (2) FAILURE TYPE A=CONE, B=GONE AND SPLIT, C=CONE AND SHEAR, D=SHEAR, E=COLUMNAR
 (3) TEST RESULTS COMPLY WITH PROJECT SPECIFICATIONS UNLESS INDICATED IN NOTES.
 (4) FIELD TESTS ARE PER APPLICABLE ASTM STANDARDS: C138, G143, C172, G231

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Tom Pennell
 ALLIANCE GEOTECHNICAL GROUP

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GEOTECHNICAL AND CONSTRUCTION MATERIALS ENGINEERING AND TESTING
 10610 Newkirk Street, Suite 202, Dallas, Texas 75220 Phone: 972-444-8889 Fax: 972-444-8893

CONCRETE INSPECTION AND COMPRESSION TEST REPORT

CLIENT: Western Plains
PROJECT: Miscellaneous Grout Testing
 Hillcrest Shores - Rockwall, Texas
AGG REPORT #: C02-0708-028
REPORT DATE: 1/20/04

DISTRIBUTION:
 Rodman Paving - Tom Pennell

SPECIFICATIONS		PROJECT DATA	
Strength (psi):	4000	Placement Date:	12/19/03
Slump (in.):	3 - 5	Sampled By:	Tom Pennell
Air Content (%):	4 - 6	Weather:	-
Concrete Temp (°F):	95 max	Supplier/Mix:	-

FIELD DATA SET #1

Ticket #:	-	Time Batched:	-	Time Sampled:	-
Slump (in.):	4.25	Air Content:	4.8	Unit Weight:	-
Conc. Temp. (°F):	-	Ambient Temp. (°F):	-	Yardage (c.y.):	-
Placement Location:	Last Footing Pour				
Remarks:	Contractor Made Cylinders				

FIELD DATA SET #2

Ticket #:	_____	Time Batched:	_____	Time Sampled:	_____
Slump (in.):	_____	Air Content:	_____	Unit Weight:	_____
Conc. Temp. (°F):	_____	Ambient Temp. (°F):	_____	Yardage (c.y.):	_____
Placement Location:	_____				
Sample Location:	_____				

CONCRETE COMPRESSION TEST RESULTS
 CYLINDERS MOLDED AND CURED PER ASTM C31, TESTED PER ASTM C39

Set #	Cylinder #	Test Date	Age (Days)	Max. Load (lbs)	Area (sq. in.)	Strength (psi)	FC	Notes
1	A	12/30/03	11	58480	12.57	4650	C	4 x 8 Cylinders
	B	12/30/03	11	57790	12.57	4600	D	
	C	01/16/04	28	74020	12.57	5890	C	
	D	01/16/04	28	65410	12.57	5200	D	

(1) NORMAL CYLINDER SIZE 6" X 12", AREA 28.27 sq. in., UNLESS NOTED ABOVE.
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 (3) TEST RESULTS COMPLY WITH PROJECT SPECIFICATIONS UNLESS INDICATED IN NOTES.
 (4) FIELD TESTS ARE PER APPLICABLE ASTM STANDARDS: C138, C143, C172, C231

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GROUT INSPECTION AND COMPRESSION TEST REPORT

CLIENT: Western Plains
PROJECT: Miscellaneous Grout Testing
 Hillcrest Shores - Phase 3
AGG REPORT #: C04-0107-002
REPORT DATE: 2/6/04

DISTRIBUTION:
 Joe London - Western Plains
 Tom Pennell - Rodman Paving

SPECIFICATIONS		PROJECT DATA	
Strength (psi):	2000	Placement Date:	1/7/04
Slump (in.):	2 - 4	Sampled By:	Tom Pennell
Air Content (%):	12 - 16	Weather:	-
Concrete Temp (°F):	95 max	Supplier/Mix:	-

FIELD DATA SET #1

Ticket #: _____ Time Batched: _____ Time Sampled: _____
 Slump (in.): 3.50 Air Content: 13.5 Unit Weight: _____
 Conc. Temp. (°F): _____ Ambient Temp. (°F): _____ Yardage (c.y.): _____
 Placement Location: First Lower Entrance Next to Treeline on Right Side by Alley.
 Remarks: Sampled By Tom Pennell with Rodman Paving

FIELD DATA SET #

Ticket #: _____ Time Batched: _____ Time Sampled: _____
 Slump (in.): _____ Air Content: _____ Unit Weight: _____
 Conc. Temp. (°F): _____ Ambient Temp. (°F): _____ Yardage (c.y.): _____
 Placement Location: _____
 Remarks: _____

CONCRETE COMPRESSION TEST RESULTS
 CYLINDERS MOLDED AND CURED PER ASTM C31, TESTED PER ASTM C39

Set #	Cylinder #	Test Date	Age (Days)	Max. Load (lbs)	Area (sq. in.)	Strength (psi)	FC	Notes
1	A	1/15/04	8	16270	7.07	2300	D	*Height: 4.7 L/D= 1.57 Correction Factor: 0.966
	B	1/21/04	14	21420	7.07	2930*	D	
	C	2/4/04	28	27060	7.07	3830	D	

- (1) NORMAL CYLINDER SIZE 6" X 12". AREA 28.27 sq. in., UNLESS NOTED ABOVE.
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CONCRETE INSPECTION AND COMPRESSION TEST REPORT

CLIENT: Western Plains
PROJECT: Miscellaneous Concrete Testing
 Hillcrest Shores - Rockwall, Texas
AGG REPORT #: C02-0708-017
REPORT DATE: 12/3/03

DISTRIBUTION:
 Rodman Paving - Tom Pennell

SPECIFICATIONS		PROJECT DATA	
Strength (psi):	4200	Placement Date:	11/5/03
Slump (in.):	3 to 5	Sampled By:	Tom Pennell
Air Content (%):	3 to 5	Weather:	Cool
Concrete Temp (°F):		Supplier/Mix:	Hanson

FIELD DATA SET #1			
Ticket #:	-	Time Batched:	-
Slump (in.):	7+	Air Content:	7.4
Conc. Temp. (°F):	-	Ambient Temp. (°F):	-
Placement Location:	First Day Piers for Wall		
Remarks:	Contractor Made - Engineer was present		

FIELD DATA SET #2			
Ticket #:		Time Batched:	
Slump (in.):		Air Content:	
Conc. Temp. (°F):		Ambient Temp. (°F):	
Placement Location:		Time Sampled:	
Sample Location:		Unit Weight:	
		Yardage (c.y.):	

CONCRETE COMPRESSION TEST RESULTS

CYLINDERS MOLDED AND CURED PER ASTM C31, TESTED PER ASTM C39

Set #	Cylinder #	Test Date	Age (Days)	Max. Load (lbs)	Area (sq. in.)	Strength (psi)	FC	Notes
	A	11/08/2003	3	60250	28.27	2130	C	
1	B	11/12/2003	7	99570	28.27	3520	D	
	C	12/03/2003	28	140440	28.27	4970	C	
	D	12/03/2003	28	137650	28.27	4870	C	

- (1) NORMAL CYLINDER SIZE 6" X 12", AREA 28.27 sq. in., UNLESS NOTED ABOVE.
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- (3) TEST RESULTS COMPLY WITH PROJECT SPECIFICATIONS UNLESS INDICATED IN NOTES.
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CONCRETE INSPECTION AND COMPRESSION TEST REPORT

CLIENT: Western Plains
PROJECT: Miscellaneous Concrete Testing
 Hillcrest Shores - Rockwall, Texas
AGG REPORT #: C02-0708-018
REPORT DATE: 12/11/03

DISTRIBUTION:
 Rodman Paving - Tom Pennell

SPECIFICATIONS		PROJECT DATA	
Strength (psi):	4200	Placement Date:	11/12/03
Slump (in.):	5 max	Sampled By:	Tom Pennell
Air Content (%):	3 to 5	Weather:	Cool
Concrete Temp (°F):		Supplier/Mix:	Hanson

FIELD DATA SET #1			
Ticket #:	-	Time Batched:	-
Slump (in.):	5.50	Air Content:	4.9
Conc. Temp. (°F):	-	Ambient Temp. (°F):	-
Placement Location:	Second Day Wall Piers		
Remarks:	Contractor Made		

FIELD DATA SET #2			
Ticket #:		Time Batched:	
Slump (in.):		Air Content:	
Conc. Temp. (°F):		Ambient Temp. (°F):	
Placement Location:		Time Sampled:	
Sample Location:		Unit Weight:	
		Yardage (c.y.):	

CONCRETE COMPRESSION TEST RESULTS
 CYLINDERS MOLDED AND CURED PER ASTM C31, TESTED PER ASTM C39

Set #	Cylinder #	Test Date	Age (Days)	Max. Load (lbs)	Area (sq. in.)	Strength (psi)	FC	Notes
	A	11/15/03	3	77550	28.27	2740	D	
1	B	11/19/03	7	109390	28.27	3870	D	
	C	12/10/03	28	140570	28.27	4970	D	
	D	12/10/03	28	143080	28.27	5060	D	

- (1) NORMAL CYLINDER SIZE 6" X 12", AREA 28.27 sq. in., UNLESS NOTED ABOVE.
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CONCRETE INSPECTION AND COMPRESSION TEST REPORT

CLIENT: Western Plains
PROJECT: Miscellaneous Concrete Testing
 Hillcrest Shores - Rockwall, Texas
AGG REPORT #: C02-0708-019
REPORT DATE: 12/11/03

DISTRIBUTION:
 Rodman Paving - Tom Pennell

SPECIFICATIONS
 Strength (psi): 4200
 Slump (in.): 5 max
 Air Content (%): 3 to 5
 Concrete Temp (°F): _____

PROJECT DATA
 Placement Date: 11/13/03
 Sampled By: Gerald
 Weather: Cool
 Supplier/Mix: Hanson

FIELD DATA SET #1
 Ticket #: _____
 Slump (in.): _____
 Conc. Temp. (°F): _____
 Placement Location: Third Day Wall Piers
 Remarks: Contractor Made

Time Batched: _____
 Air Content: _____
 Ambient Temp. (°F): _____

Time Sampled: _____
 Unit Weight: _____
 Yardage (c.y.): _____

FIELD DATA SET #2
 Ticket #: _____
 Slump (in.): _____
 Conc. Temp. (°F): _____
 Placement Location: _____
 Sample Location: _____

Time Batched: _____
 Air Content: _____
 Ambient Temp. (°F): _____

Time Sampled: _____
 Unit Weight: _____
 Yardage (c.y.): _____

CONCRETE COMPRESSION TEST RESULTS

CYLINDERS MOLDED AND CURED PER ASTM C31, TESTED PER ASTM C39

Set #	Cylinder #	Test Date	Age (Days)	Max. Load (lbs)	Area (sq. in.)	Strength (psi)	FC	Notes
1	A	11/17/03	4	79420	28.27	2810	D	
	B	11/20/03	7	105970	28.27	3750	D	
	C	12/11/03	28	139900	28.27	4950	C	
	D	12/11/03	28	137080	28.27	4850	C	

- (1) NORMAL CYLINDER SIZE 6" X 12", AREA 28.27 sq. in., UNLESS NOTED ABOVE.
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Martin J. White
 ALLIANCE GEOTECHNICAL GROUP

