



October 7, 2009

Mr. Curtis Brown, P.E.
Garver Engineers, LLC
1016 NW 24th Street
Norman, Oklahoma 73069

**Subject: Material Acceptance Testing Report No. 4
Runway & Taxiway Safety Area Drainage Improvements
Pauls Valley Regional Airport
AIP Project No. 3-40-0076-008-2009
Kleinfelder Project No. 104438**

Dear Mr. Brown:

Kleinfelder representatives provided testing services for material acceptance purposes for the Runway & Taxiway Safety Area Drainage Improvements project at the Pauls Valley Regional Airport in Pauls Valley, Oklahoma. The services were performed for specification item P-152 and P-501.

P-152

Field density tests were performed in portions of the RCB backfill and drainage structures for Phases 1, 2, and 3. Results of the field and laboratory test are attached to this report. Per instruction from the onsite Garver Representative, moisture requirements for P-152 are waived. Field density tests were performed on the following samples:

<u>DATE</u>	<u>LOCATION</u>	<u>SAMPLE #</u>
08/18/09	E of T/W Bravo – 801+00, Phase 2	N
	Structure – Median Drain C2, Phase 3	N
	Structure – Median Drain C1, Phase 3	N
08/20/09	SW of T/W Bravo Sta. 701, Phase 2	N
08/22/09	Station 801+00, Phase 1	N
	Station 702+50, Phase 2	N
08/25/09	Station 802+50, Phase 1	N
	Station 702+25, Phase 2	N
	Station 703+75, Phase 2	N
08/26/09	Station 704+50, Phase 2	N

P-501

Concrete was tested and sampled on the following dates and locations:

<u>DATE</u>	<u>LOCATION</u>
08/20/09	Sta. 701+00 T/W Bravo, Phase 2
08/24/09	Sta. 695+50 T/W Bravo, Phase 2
08/24/09	Sta. 801+50 T/W Bravo, Phase 1
08/31/09	Ditch Wing Walls, approx. Sta. 995+00, Phase 2

The results are included in the attachments. Test results on the P-501 were mailed as data became available.


Closure

Please let us know if you need additional information or if you have any questions about this report and its attachments.

Respectfully submitted,
KLEINFELDER CENTRAL, INC.
Certificate of Authorization #3036, Expires 6/30/11



Brett Cowan, Ph.D., P.E.
Senior Project Engineer



Rodrigo Vargas
Construction Services Manager

Attachments: Field Density Test Reports
Laboratory Test Results

FIELD COMPACTION TEST RESULTS

Project No. 104438
 Date 9/23/2009
 Approved By MR
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Project and Location Pauls Valley Airport, AIP 3-40-0076-008-2009
 Architect/Engineer Garver Engineering
 Contractor Total Investment
 Reference Point Various, Backfill - Phase 1-3

Test No.	Date	Location	Lift or Elevation	Material Mark	Optimum Density	Optimum Moisture	Dry Density	Percent Moisture	Percent Compaction	Optimum Moisture (+/-)
Utility Trench Backfill										
56	8/18/2009	E of T/W Bravo - 801 + 00 Phase 2	-1.0'	N	110.0	15.5	101.9	13.99	93	-1.5
57	8/18/2009	Structure - Median Drain C2 Phase 3	-1.0'	N	110.0	15.5	99.7	13.7	91	-1.8
58	8/18/2009	Structure - Median Drain C1 Phase 3	-1.0'	N	110.0	15.5	100.3	14.9	91	-0.6
59	8/20/2009	SW of T/W Bravo Station 701 + 00 Phase 2	Final Grade	N	110.0	15.5	99.9	15.3	91	-0.2
60	8/22/2009	Station 801 + 00 Phase 1	Final Grade	N	110.0	15.5	100.2	15.3	91	-0.2
61	8/22/2009	Station 702 + 50 Phase 2	Final Grade	N	110.0	15.5	101.3	14.7	92	-0.8
62	8/25/2009	Station 802 + 50 Phase 1	Final Grade	N	110.0	15.5	102.4	17.3	93	+1.8
63	8/25/2009	Station 702 + 25 Phase 2	Final Grade	N	110.0	15.5	100.3	14.9	91	-0.6
64	8/25/2009	Station 703 + 75 Phase 2	-1.0'	N	110.0	15.5	99.1	15.7	90	+0.2
65	8/26/2009	Station 704 + 50 Phase 2	-1.0'	N	110.0	15.5	102.9	17.0	94	+1.5

NOTES: Moisture content as percent of dry weight, in-place density as percent of maximum dry density on sample indicated by material mark. ASTM D2922, D3017, & D698, Method B, Moist Preparation, Mechanical Rammer. Soil Descriptions on Moisture-Density Relationship Forms. Locations and elevations are estimated to the accuracy of the horizontal and vertical control as provided by the contractor.

Direct Transmission _____ (All tests taken at -8 inches unless noted otherwise.)
 Backscatterer _____



Results only related to items tested. This report and/or any portion shall not be reproduced without written approval of Kleinfelder. All documents shall remain the property of Kleinfelder as detailed in contract provisions.