APPENDIX B

TRYCK NYMAN HAYES, INC.

ENGINEERS/SURVEYORS/LANDSCAPE ARCHITECTS
TRANSPORTATION and COMMUNITY PLANNING

September 3, 1996

Mr. Gary Gustafson
Heritage Land Bank
Municipality of Anchorage
P.O. Box 196650
Anchorage, AK 99519-6650

Dear Gus:

REF: Soil Testing and Ground Water Monitoring Services on Section 36 of the Hillside Area RFP #26-96 - Professional Services Fee Proposal

Per our conversation on Friday, August 30, we have modified our fee proposal as requested. The following is a recap of the fee proposal and the prices for the additional services. Please note the prices quoted are for pre-winter (freezing) conditions therefore an expedited Notice To Proceed is becoming critically important.

1. Survey - Establish horizontal control for the 10 test pits using hand held G.P.S. at 2 known corners, (no vertical control will be established), supervision of survey crews, coordination with Tom Knox, file research into previous survey work and plats that will influence project, computer entry and file processing of data, computations, basemap preparation. MOA to provide digitized aerial base map to Terrasat for EM/R work. Survey stake 10 test pit locations using only hand held G.P.S. receivers (no vertical), enter data into base map. MOA to provide the following: a) Certified boundary survey of this section and right-of-way showing set and found monuments. b) Digitized slope maps (contours) and digitized aerial base map. c) Monumentation of road right-of-way in accordance with MOA, DPW, PM&E Survey Specifications. d) AutoCAD drawings on 3" floppy disk of the proposed Section 36 plat, including all tracts.(by DOWL dated 12/30/91 or most recent). e) ASCII point file of the survey points from 6/93, and MOA field book 27-43. f) Base map with the above information (items a & b) in an AutoCAD/Softdesk compatible file.	$5,000

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2. Test pits- I) Soils Data Review - Review existing soils logs, reports, and other applicable soils data. (1774) II) Excavation - One each mob/demob at site, transporting equipment to each test pit with minimum disturbance to ground, excavating test pit hole to 16 feet, supplying monitoring tubes, fabric and cap, placement of monitoring tube, establishing a maximum of two percolation benches per hole, and returning to site at later date after completion of the percolation test to backfill the hole and neatly regrade surface. (8000) III) Percolation Tests - Supervising the excavation and logging of 10 test pits, identifying percolation layers, construction of percolation holes, (maximum 2 per pit), hauling water to site, presoaking holes, conducting percolation tests, analyzing the results and transfer of data to DHHS soils percolation test forms. Transferring data to Terrasat for model input. (3000) Note: All soils work to be supervised by a registered professional engineer. Verification of soils visuals will not take place. No laboratory analysis of soils types or moisture content shall be performed in conjunction with this work, including soils report. IV) Water monitoring - individual test pit monitoring on 10 holes on the following dates: 10/1/96, 10/15/96, 10/29/96, 4/29/97, 5/6/97, 5/20/97, 6/3/97 (3400) Note: dates maybe changed as directed by the MOA with 48 hours notice to assist in measuring high water. Maximum number of readings is 7. No data recorders are to be incorporated with this project.	$16,174
3. Terrain Unit Evaluation - Includes air photos, importing base maps, air photo interpretation, terrain analysis, slope maps, soils maps, water levels from existing sources, inputting and transfer of data to report, field verify information, transfer data to MOA.	$10,045
4. EM/R Low Confidence - Providing horizontal control and assumed vertical control, locating positions in the field, brushing 2 foot wide lines for equipment, staking points every 25 to 50 feet, conducting field resistivity and electromagnetic, evaluating field data and providing brief report.	$15,000

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5. Project Management - Provide for minimum coordination by the project manager with HLB and ACE. Not to exceed 30 hours over life of the project. Note: All coordination with public and interested stakeholders to be handled by HLB.	$2,700
6. Agency Coordination - Provide for minimum coordination between team members and other interested agencies. Specifically DCPD, COE, DHHS, ADEC. Time not to exceed 7 hours.	$630
7. Draft/Final Report - Provides organizing the information from various project activities into a cohesive and easily understood report in draft format. Development and placement of applicable graphics. Pages not to exceed 20 typewritten. Appendix will be utilized for placement of soils logs and percolation testing. At a minimum an overall site map shall be included identifying the developable and undevelopable areas to the accuracy approved. See notes.	$9,000
8. Reimbursable - Copying, base map reproduction and printing	$1,000
Total	**$59,549**
Notes: 1. Hand held GPS units will be utilized in accordance with manufactures specifications to obtain survey data to the best of our ability and not to exceed the degree and accuracy warranted by the manufacture. Hand held GPS units can only achieve minimum accuracy which may vary significantly with time. 2. As stated in the RFP, we are required to delineate developable and undevelopable areas utilizing stated RFP criteria. Under this fee option there is insufficient survey incorporated to provide accurate delineation of these areas. 3. HLB shall provide and certify the locations of the boundaries for wetland and wildlife corridors to be incorporated into the base map. Field verification will not be accomplished under this fee option.	

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ADDITIONAL SERVICES	
After completion of terrain unit analysis, additional test pits maybe recommended for placement. If the Municipality determines it is in its best interest to increase the number of test pits for the project it may do so at the following agreed upon rate. A separate notice to proceed identifying the specific number of test pits will be issued for this work. Additional Test Pit Costs - Includes excavation, soils logs, percolation test(s), water monitoring, data transfer, management and analysis of data. Survey stake test pit location and as-built. Price per each additional test pit.	$2,150

If you have any additional questions or if there is anything else that I can assist you with, please contact me at your convenience.

Respectfully,
Tryck Nyman Hayes, Inc.

Kenneth M. Duffus, P.E.
TNH Project Manager

cc: Ted Trueblood
Dan Young, Terrasat, Inc.