EXHIBIT "A"
Scope of Services

Basic Scope of Services – Onsite Construction Staking

A. *Horizontal and Vertical Control* - Referenced to horizontal & vertical control used to generate the plans. Semi-permanent control will be established throughout the site and differential levels will be run through all control to establish elevations. RM Meridian is proposing to prepare the site for the use of both Conventional (Robotic Total Station) and GPS survey instrumentation. RM Meridian is proposing to place permanent vertical control on fire hydrants and permanent structures around the site and along the top of the shoring wall. RM Meridian will supply the site superintendent with a Horizontal and Vertical control diagram for the points that have been set to support this project. As additional control is set through the project life cycle, RM Meridian will update the control map and supply as needed.

   a. Project Assumptions and Exclusions: The cost for horizontal and vertical control to support the construction staking and surveying for this site **does not** include performing a boundary survey on the site to establish lost or obliterated survey control monuments, property corners, or existing site benchmarks. If additional surveying services are requested by client or required by the local municipality, this task will be performed through a negotiated change order or on a time and materials basis

B. *Building Excavation Staking & Shoring Wall Staking* - Grade & alignment stakes to be used for the location of building excavation/over excavation and shoring walls. Benchmarks placed and marked to Garage top-of-slab level as well as Architectural 100'0". This task will be completed in two field mobilizations. RM Meridian will provide staking for excavation throughout the proposed building/parking garage location, and staking of the temporary shoring wall.

C. *Shoring Wall Monitoring and Reports* - Perform a series of survey observations on monitoring points placed at strategic locations along the shoring and retention wall. The purpose of this monitoring and survey observation task is to identify if any movement of the shoring or retention wall has occurred over a period of time. This task includes the initial establishment of a network of monitoring points along the shoring wall, and preparation of a report identifying the monitoring point network in addition to the procedures and observations utilized throughout the duration of the monitoring survey. Subsequent observations (epochs) will be provided on a weekly basis and be compared to the initial "benchmark" values described in this report. This task assumes eight (8) weekly monitoring observations (epochs) following the establishment of the initial shoring wall monitoring network. *Note: If additional surveying observations (beyond the eight weekly observations identified in this task) are required by the Engineer of Record to monitor potential movement of the shoring wall, those observations will be performed as additional mobilizations pursuant to Additional Alternate Scope of Services Item 1, found on Page 6 of 9 of this proposal.*

D. *Building Foundation / Garage Slab (Major Gridlines)* - Grade & alignment stakes for building foundation layout on major gridlines being offset to nearest intersecting gridline. Benchmarks placed and marked to Garage top-of-slab level as well as Architectural 100'0". Grid Line points will be placed in semi-permanent locations so they are preserved throughout construction of the foundation level. This task will include layout of elevator shafts and stair wells and is scheduled to be completed in four (3) field mobilizations.

E. *Upper Level (Level 2 Through 4) Grid Lines* - Grade & alignment stakes for building floor layout on major gridlines being offset to nearest intersecting gridline. Grades marked to finished floor. This task will be performed as requested for transfer of building gridlines to the upper floor levels. This task is estimated to be requested in six (6) field mobilizations. Levels above 4 typically would not require additional staking. Grid Line points will be placed in semi-permanent locations so they are preserved throughout construction. Mobilizations will consist of setting semi-permanent points on each floor deck that can be used throughout the construction of the associated deck.

F. *Parking Garage Blue-Top Staking* - Grade stakes at 25-foot intervals throughout the sloped lower garage parking area. Establish hub & whisker at each point set to subgrade. *This task is intended to be completed in one (1) mobilizations.*

G. *Utility Staking – Sanitary* - Grade & alignment stakes on offset at progressive intervals (sta 0, 25, 50, 75, 100, 150, 200…), manholes, cleanouts and end of services. Grades marked to invert of pipe.

H. *Utility Staking – Water* - Grade & alignment stakes on offset at approx. 50-foot intervals, including ends, angle points, intersections, fire hydrants, meters, and inline grades offset to end of services. Grades will be marked to top of pipe. Services will be staked to the end of service as shown in the Civil Plans.

I. *Utility Staking - Storm Sewer* - Grade & alignment stakes on offset at progressive intervals (sta 0, 25, 50, 75,100, 150, 200…), inlets/outlets, and manholes. Inlets will be staked with offsets to outside of inlet on flowline. Grades marked to invert of pipe. This task includes placement and grading for the location of the proposed underground detention facility.

J. *Curb & Gutter Staking* - Grade & alignment stakes on offset at 25-foot intervals, ends, angle points, PCs. Grades marked to top back of curb and flowline of cross pan.

K. *Detached Sidewalks and Concrete Flatwork* - Grade & alignment stakes on offset at 50-foot intervals, ends, angle points, PCs. Grades marked to top of finished concrete.

L. *Level 7 Amenity Deck & Pool* - Grade & alignment stakes for major corners of pool and spa and edge of concrete. This task will include additional staking for the location of the internal walls 7 ramp. Grades marked to finished grade. *Note: This task does not include other amenities that can be located by subcontractors once the walls are in place.*

M. *Level 2 Amenity Deck* - Grade & alignment stakes for the walls. Grades marked to finished grade. *Note: This task does not include other amenities that can be located by subcontractors once the walls are in place.*

N. *Wet Utility As-Built Survey* - On completion of wet utilities perform an as-built survey of the wet utilities (storm sewer, sanitary sewer, and water main). Prepare and submit as-built data in CAD format to the Engineer of Record for their submittal. *Note: This task excludes the as-built survey of the underground detention vault and sump manhole*.

O. *Detention Vault Access Manhole and Sump Manhole As-Built Survey* - On completion of the underground detention vault and sump manhole, perform an as-built survey of the detention vault and sump manhole access lids, and the vault and sump manhole invert grades directly below the access lids. No other underground or confined space measurements will be taken. Prepare and submit as-built data in CAD format to the Engineer of Record for their submittal. *Note: RM Meridian is **not** certified to perform any underground or confined space survey work for which confined space entry or certification is required. Only measurements that are accessible or able to be measured from the ground surface will be obtained as a part of this task. No other underground measurements will be obtained. This task excludes the as-built survey of all other wet utilities (sanitary, storm, and water)*.

P. *Parking/Foundation Level Form Check (Improvement Location Certificate*) – Survey foundation forms for Foundation/Parking level after they have been completed to ensure that the forms are in the correct location horizontally and vertically. Certificate will be signed and sealed by a Professional Land Surveyor licensed in the State of Colorado, to be submitted to the Engineer of Record for final acceptance by the controlling district.

Q. *Foundation Certification (Certified Survey)* – Perform a Foundation Certification showing the location of the completed foundation and its relationship to building setbacks and property lines. Certificate will be signed and sealed by a Professional Land Surveyor licensed in the State of Colorado, to be submitted to the Engineer of Record for final acceptance by the controlling district.