# MAIN STREET
# COLORADO SPRINGS (MEYER NAJEM)

## EXHIBIT "A"
## Scope of Services

### Basic Scope of Services

A. *Horizontal and Vertical Control* – Construction Surveying Control referenced to horizontal & vertical values used to generate the 100% CD Submittal 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.

*Note: It is our understanding that a portion of the control necessary for this project has been previously established by Hurst & Associates. It is assumed that enough of their survey control values are available for us to be able to verify that our control values match. RM Meridian will collaborate directly with Hurst & Associates to obtain control.*

B. *Over Excavation Staking & Over Excavation Checks of Building* – Per the Specifications, Over-Excavation has been recommended for the Building. The recommended Over-Excavation for these buildings has been determined to be 5 feet in depth below the finished slab. The excavation shall be within the entire footprint of the building and extend 5 feet beyond the structure limits.

*Over- Excavation Staking* - Grade stakes offset to the corners of the 5' envelope of the buildings for use in over-excavation of the slabs. Establish hub & lath at each point referencing hub elevation and cut/fill to sub-grade.

*Over Excavation Check* – Sub-Excavation grade checks will be performed on the building location to ensure the proper depth of excavation has occurred. A letter certified by a Professional Land Surveyor licensed in the State of Colorado stating that proper depth has been achieved will be provided to the general contractor.

C. *Site Over Lot Staking* – RM Meridian will provide grade stakes at strategic locations throughout the site at approximate 50-foot grid intervals. Establish hub & lath at each point referencing hub elevation and cut/fill to final grade. Provide grade offsets as required to reference design grade breaks.

D. *Detention Pond Grading* – RM Meridian will provide grade stakes offset to the top of the pond with calls to the toe, at approximate 50-foot grid intervals. Establish hub & lath at each point referencing hub elevation and cut/fill to final grade. Provide grade offsets as required to reference design grade breaks.

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

F. *Utility Staking – Water* - Grade & alignment stakes on offset at approx. 50-foot intervals, including ends, angle points, intersections, fire hydrants, meters, and inline graded 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.

G. *Utility Staking - Storm Sewer / Drain (Site)* - 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.

H. *Utility Staking – Yard Drains* - 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.

I. *Transformer Pad, Light Poles* - Grade & alignment stakes on offset for the location of the proposed transformer pad. Grade & alignment stakes for the centerline location of the proposed light pole locations. Grades marked to finished grade.

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

*K.* *Concrete Paving* - Grade & alignment stakes on offset at 25-foot intervals, ends, angle points, PCs. Grades marked to edge of concrete.

*L.* *Road Subgrade and Blue- top Staking* – Blue-tops to subgrade at 25-foot intervals along the centerline of streets and selected locations in the areas of parking.

*M.* Sidewalks, Detached & Concrete Flatwork- Grade & alignment stakes on offset at 25-foot intervals along detached sidewalks, ends, angle points, and PCs. Grades will be marked to the top back of walk.

*N.* *Building Corners* - Grade & alignment stakes for ALL building corners on 10' offset to outside face of wall. Benchmarks will be provided referencing the finished floor elevation. The elevator pit will be staked under this line item.

*O.* *Building Piers/Anchor Bolts Staking* - Grade & alignment stakes for the piers/anchor bolts will be set as an offset to the centerline. Each pier location will have four offsets (except where multiple piers are aligned in close proximity), allowing the contractor to establish centerline of the bolt pattern after the pier has been placed. We have assumed that two mobilizations will be necessary to complete this task.

P. *Anchor Bolt Check* – After the piers have been placed, RM Meridian will return to the site to perform a survey of the anchor bolt locations. This task has been requested to assure the proper positioning of the anchor bolts before structural steel is placed. Surveyor will check locations within a tolerance to be provided, and will stake the centerline of those not within tolerance.

Q. *Courtyard Layout*- Grade and alignment stakes for the location of the proposed concrete areas through the courtyard areas. Establish hub & lath at each point referencing hub elevation and cut/fill to finished grade. We have assumed that this task will require two mobilizations.

R. *Trash Enclosure, Monument Sign, Flag Pole* - Grade & alignment stakes offset to the site fixture. Each staked location will include hub elevation, and cut/fill to finished grade.

S. Utility As-Built Survey – Perform an as-built survey of the storm sewer and sanitary sewer. Prepare and submit as-built data in CAD format to the Engineer of Record for their submittal.

T. *Office Computations* - Office computations & preparation for staking. Assume AutoCad files of final construction plans provided.