CORAZON (MPC)

EXHIBIT "A"
Scope of Services

Basic Scope of Services – Onsite Construction Staking

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.

B. *Over Excavation Staking & Over Excavation Checks* – The Geotechnical Engineer Report prepared by Terracon Consultants, Inc. dated 10/24/2014, and Addendum No. 1 dated 06/30/2015, recommend removal of all fill below foundations down to native soils or bedrock, with over excavation extending laterally beyond all edges of the footings at least 8 inches per foot of overexcavation depth below footing base elevation. Because there is not a specific over-excavation value recommended, Surveyor will not be checking the depth of the excavations. The Geotechnical Consultant will most likely be responsible for determining whether the proper excavation depth has been achieved. The rough building stakes provided under the Overlot Grading of the site can be used to excavate the fill materials.

C. *Overlot Grading* - 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. Staked locations will include the rough building corners and curb lines. *RM Meridian is proposing 2 mobilizations to complete this task.*

D. *Utility Staking - Sanitary Sewer* - 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.

E. *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. Two offsets provided to the meter pits and to the fire risers in the mechanical room. Grades will be marked to top of pipe. Services will be staked to the end of service as shown in the Civil Plans.

F. *Utility Staking - Storm Sewer Main* - Grade & alignment stakes on offset at progressive intervals (sta 0, 25, 50, 75,100, 150, 200…), and inlets. Inlets will be staked with offsets to outside of inlet on flowline. Grades marked to invert of pipe.

G. *Utility Staking – Ponds & UG Detention* - Grade & alignment stakes on offset to the top of bank with calls to the toe of slope and grade breaks for the ponds. Alignment stakes for the UG detention provided on 25-foot stations. Grades marked to finished grade, invert of pipe, and top of wall.

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

I. *Curb & Gutter (Morrison, Ohio, Exposition)* - Grade & alignment stakes on offset at 25-foot intervals, ends, angle points, PCs. Grades marked to top back of curb.

J. *Retaining Walls* - Grade & alignment stakes on offset at 25-foot intervals, ends, angle points, PCs. Grades marked to top or bottom of wall as provided for in the plans. EXCLUDING THE LOW WALLS APPURTENANT TO THE BUILDINGS. See below.

K. *Perimeter Fence*- Alignment stakes on offset at 50-foot intervals, ends, angle points, PCs for the perimeter wood and metal fencing. Grades will not be provided as a part of this task.

L. *Patio Areas Along Buildings* - Grade & alignment stakes on offset for the low walls and walks in the patio areas as depicted in the architectural set. Grades marked to top or bottom of wall and finished grade of concrete**.**

M. *Concrete Drain Pans* - Grade & alignment stakes on offset at 25-foot intervals along concrete pans and concrete channels located throughout the site. Grades will be marked to flowline of pan/channel.

N. *Plaza Concrete Flatwork* - Grade & alignment stakes on offset at 25-foot intervals along concrete areas for the Playground, Public Plaza, and Community Plaza.

O. *Sidewalks, Detached (Onsite)* - 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.

P. *Sidewalks, Detached (Morrison & Expostion)* - 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.

Q. *Transformer Pads, Light Poles* - Grade & alignment stakes offset to the corners of the transformer pads and center of light poles. Grades marked to finished grade. Number of Light Poles is assumed.

R. *Mail Kiosk & Trash/Bike Enclosures* – Grade and alignment stakes for the location of the proposed mail kiosk. Establish a hub & lath for the corners of the kiosk. Grades will be marked to finished concrete elevations.

S. *Futsal Court* – Grade and alignment stakes for the location of the proposed court. Establish a hub & lath for the corners and intermediate stations sufficient for grading. Grades will be marked to finished elevations.

T. *Apartment Building Foundations* - Grade & alignment stakes for building on offset to intersecting grid lines. Mobilizations will consist of setting semi-permanent exterior points that can be used throughout the life of the building construction. All other wall locations or interior wall layouts will be negotiated on an as needed basis.

U. *Apartment Buildings Form Check* – Survey foundation forms after they have been completed to ensure that the forms are in the correct location horizontally and vertically before pouring concrete.

V. *As-Built Utility Survey*– Perform an as-built survey of the storm sewer, water, and sanitary sewer. Included in this survey will be points shot on curb lines to show flow. Prepare and submit as-built data in CAD format to the Engineer of Record for their submittal.

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