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**GIS Data Set**

(included on CD in map pocket)

COA Project Title:  Mid-Valley Drainage Management Plan, 2011

COA Project Number: P7963.06

Consultant – Easterling Consultants Inc. prepared GIS

Data from data set provided by Smith Engineering Company OCTOBER 2011.

GIS Data Set Description

The data represents the -

Existing Conditions SWMM Model Manhole and Storm Drain Data

And includes the 100-year 24-hour storm peak discharges within the storm drains.

(SWMM - Storm Water Management Model)

The SWMM model was developed for the purpose to simulate the the existing conditions trunk line storm drain system, storm water detention ponds and storm water pump stations.

The model was developed by Smith Engineering Company (SEC) as authorized by contract with the City of Albuquerque and the Albuquerque Metropolitan Arroyo Flood Control Authority.

The SWMM model naming conventions and data are described here.

Manhole Names and As-Built Data

*(SWMM\_Mh\_9\_30\_11.shp)*

Most manhole names were provided to SEC by the City of Albuquerque (COA) GIS Department In fall of 2010.  A few names do not follow the COA naming convention as some false manholes were required by the SWMM program that would allow simulation of certain features.

Manhole as-built data -measurements and survey were obtained as follows:

Manhole depths and associated storm drain pipe diameters at the manholes were field measured (without elevations - not surveyed) by NM Underground, Inc. (2009, 2010, 2011) and hand annotated drawings were developed.  Subsequently, each manhole rim elevation was surveyed in 2011 by Survey Control Inc. (1988 Vertical Datum).

Storm Drain Pipe Segment Names and As-Built Data

*(SWMM\_Lines\_9\_30\_11.shp)*

The storm drain pipe segment names DO NOT follow original COA GIS names because simplifications were required to the actual storm drain system because intermediate manholes were eliminated from the model in order to simplify simulation of the major trunk line storm drains. Therefore, individual segments were combined into a larger length segments and were renamed by SEC to accommodate the SWMM model.   Storm drain As-built plans for the storm drains were provided by the City of Albuquerque and were utilized as required to supplement the field surveyed manhole data.