

AIMS Coordinators Meeting Minutes

November 16, 2006

Host: Johnson County Stormwater and Johnson County AIMS

Update on where Flood Plain studies are in the FEMA approval process

- There are a few issues with the approval process through FEMA, but everything looks to be on track to be complete for the final map production and approval by FEMA in late 2007 or 2008.
- There should be preliminary data coming out in the next few weeks.
- FEMA requires that the digital geodatabase exactly match the paper DFIRM maps. Due to this requirement data from the 100 year future floodplain has been removed from the geodatabase.
- With the new data it will be important to keep in mind that any LOMR documents recorded after the original flight dates of the 1998-2000 planimetric update process was captured will need to be included in any flood determination analysis that is done, as the flood studies were done based on this information, and any LOMR filed after these flight dates will still affect the outcome of the determination.
- The FEMA maps are a general approximation of the flood zone area. Actual determination comes from interpolation based on the cross section elevations.
- There will be a new shaded zone X in the Johnson County area which will be used for local jurisdictional use only, and are not FEMA regulated areas..

ArcHydro

- ArcHydro is an ESRI product to very accurately model stormwater information.
- There would be a significant effort required to move our current data into an Arhydro model.
- This may be worthwhile to do on a project area, to test whether the outcomes would be worth the effort required to get the information converted.
- There may be a limited benefit of this model in Johnson County, because of the fact that most of the stormwater that flows in Johnson County come from rainfall in Johnson County. Thus much of the flooding that occurs happens very rapidly for a very short period of time.

Watershed study, 1mile section maps

- These were never created to be the official flood determination maps, and will not be the official maps after the official FEMA maps come out.
- These should be used as local reference only, as they are not the official FEMA maps.
- These maps were created from the data that was submitted to FEMA and will be retained in archive in case anyone needs to go back and see the source of the information provided to FEMA.

- It was discussed that it would be nice if in the future AIMS could provide HecRas model information along with Digital Data Requests so that development firms can have easier access to that information.

Stream Centerline

- Purpose is to create an interconnected stream network.
- Used FME to create the initial stream centerline
- Much work has been done to clean up the FME output
- Flow direction and extraneous segments needed to be cleaned up
- Flow direction has thus far been determined using the start and end point nodes and a DEM to get which node is higher to determine whether the segment needed to be flipped or not. This is not quite accurate because of very short segments having elevations different than the true flow direction.
- Flow direction will now have to be analyzed by hand to determine if all of the segments are correct or not.
- Consideration will be made for going to the next step and creating a complete network by attaching the above ground stream network with the below ground stormwater system maintained by municipalities.
- Look into Standardizing stream naming conventions
- There were other attribute ideas such as the Huc ID, watershed, subshed, and stream order
- Interest exists to share stormwater data to increase the speed at which the information could be created into a hydrologic dataset.
- Investigate measures to be able to tie additional information to vertices along a continuous segment.
- It was suggested to merge the extra splits out of the lines.
- Andy Sauer mentioned that the Watershed studies created a stream centerline up to 160 acre drainage that he could provide for comparison.

City Access for DDR

- Cities can now directly make online requests for Digital Data
- Access will be limited to 3 people per organization
 - Let Jerry Swingle know who you would like these 3 people to be
 - Jerry.Swingle@jocogov.org

Engineering Focus Group Overview

- This was an overview of the Engineering focus group. Notes from this meeting can be found under the AIMS Coordinators meeting notes from the October meeting.
- It was brought up that this focus group is the only opportunity for government officials to sit down with private development firms to talk about issues that reside between these organizations.
- Our hope is to become more of a warehouse of information from the beginning of the planning and rezoning stage throughout the process then to get information back about the final construction.

Centerline Changes Discussion

- It was discussed that the proposed changes to the centerline are fine
- There was suggestion to add additional street status designations, as well as a number of through lanes to the feature class.
- The changes are
 - Addition of the following
 - LAST_UPD_SRC – Last Update Source (Removed on the published version)
 - NOTES – Miscellaneous editing notes (Removed on the published version)
 - ST_RESP – Street Responsibility (Public, Semi Public, Private)
 - ST_DESC – Street Description (Primarily a cartographic field)
 - L_ADD_TYPE – Left address range type (Contains Actual, Theoretical Only, Range Not Possible)
 - R_ADD_TYPE – Right address range type (Contains Actual, Theoretical Only, Range Not Possible)
 - ADD_PARITY – Address Range Parity
 - NUM_LANES – Number of through lanes
 - QC_CHECK – Quality control check tracking field (Removed on the published version)
 - Fields that will be changed
 - ST_CLASS – Will now have a domain for ease and accuracy of assignment, values will remain the same.
 - ST_STATUS – Current values will be moved to new domain values
 - SUB_CLASS – Values will remain the same but the field will now be calculated through code when the features are edited.
 - L_ADD_FROM, L_ADD_TO, R_ADD_FROM, R_ADD_TO – Values currently with a 0 or 1 will be moved to having more of a realistic theoretical address range
 - An example of this range would be if one side of the street goes from 1 through 27 the other side of the street that currently has 0 through 0 would now be something like 0 through 26
 - These changes will most likely be done over the next several months with the new fields being added in the week or two after the Thanksgiving holiday.