



**STORM SEWER CALCULATIONS**

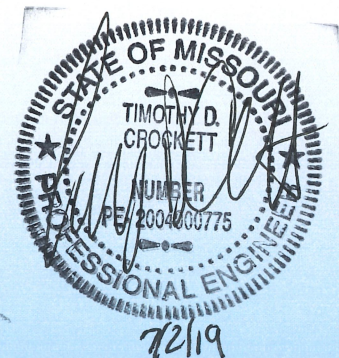
**FOR**

**DENTAL OFFICE**

**STROTHER CROSSING**

**PROJECT NO.**  
**190164**

**July 2, 2019**



1000 W. Nifong Blvd., Bldg. 1 • Columbia, MO 65203

Phone: 573-447-0292

[www.crockettengineering.com](http://www.crockettengineering.com)



### Stormwater Narrative

The current land use for Lot 4A of the Strother Crossing, Plat No. 1-A development is vacant. The proposed use is dental office. The detention and water quality requirements for this development are being met by utilizing a regional detention facility located downstream of this development.

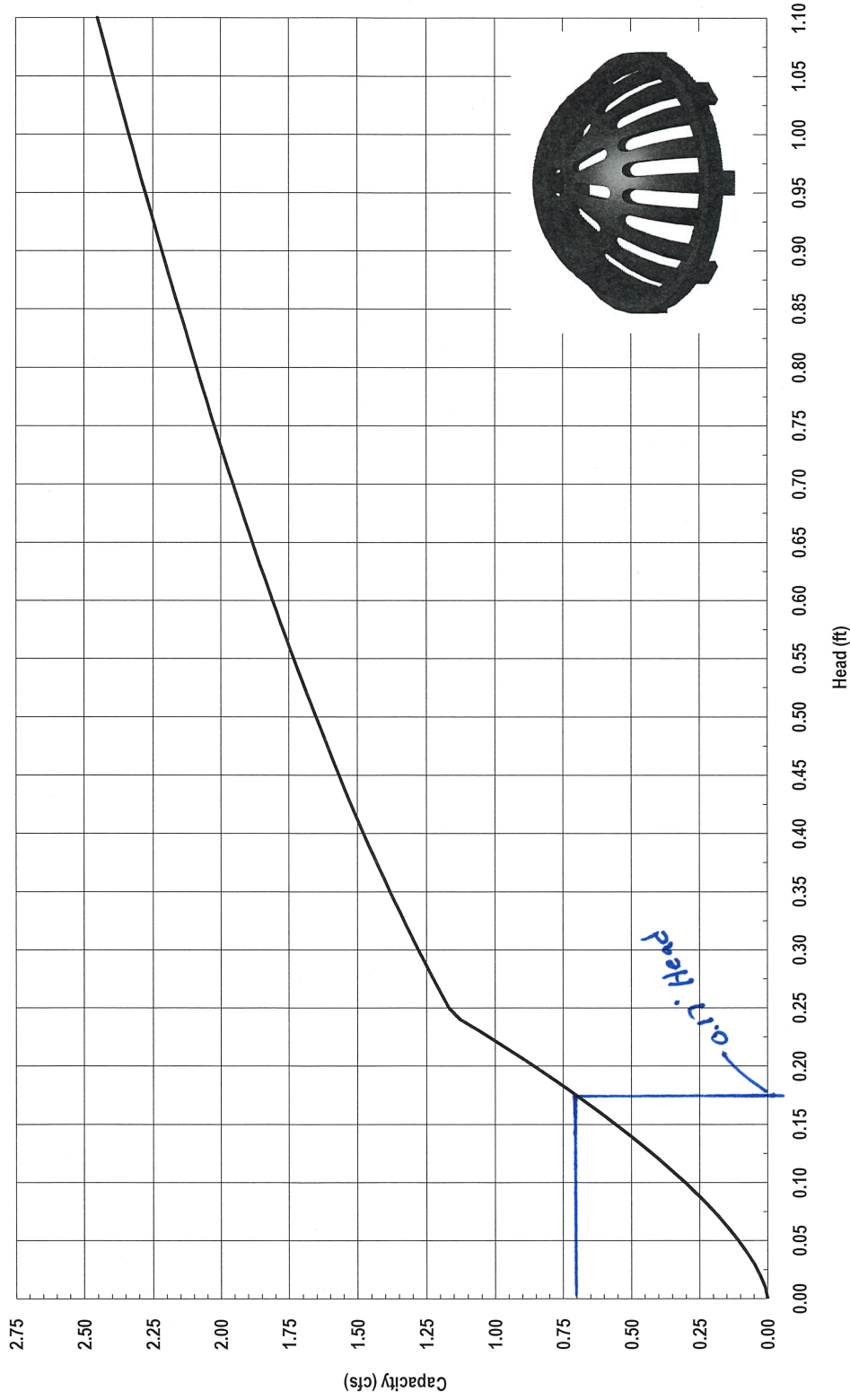
Stormwater runoff for this project will be collected with curb inlets and nyloplast drain catch basins. The collected stormwater will be discharged into an existing stormsewer network located along the private loop drive that has been constructed as part of the Strother Crossing development. It is understood that the storm sewer design is only required to carry the 10 year storm event as stated on the Preliminary Development Plan for the Strother Crossing development. The proposed stormsewer network has been design to carry the 10 year storm event and allows for an overland flow route for the larger storm events. Emergency overland flows have also been provided in the event a nyloplast drain becomes clogged. Refer to attached stormsewer calculations and drainage area map.


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Nyloplast 12" Dome Grate Inlet Capacity Chart

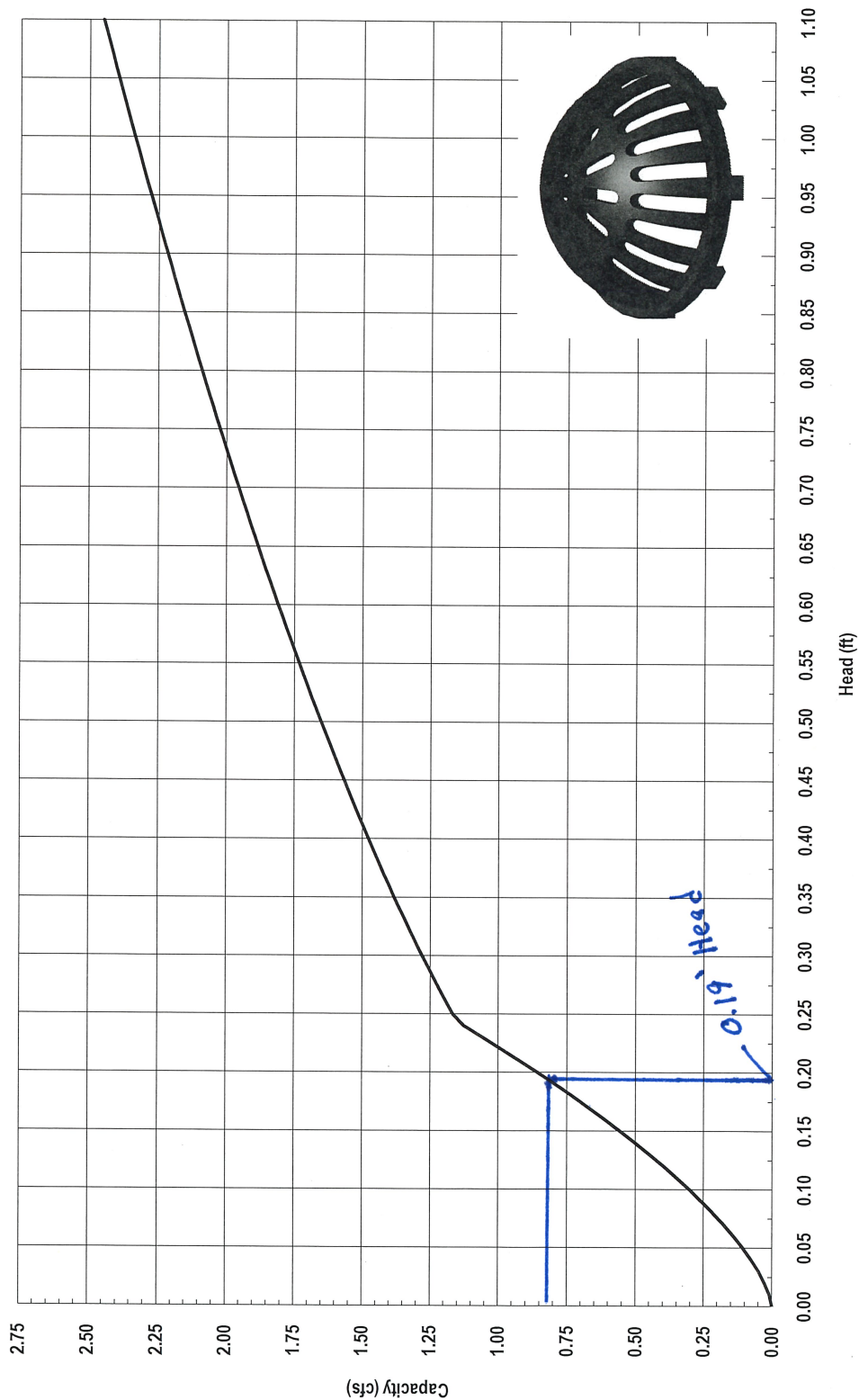



**Nyloplast®**  
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Structure # 10



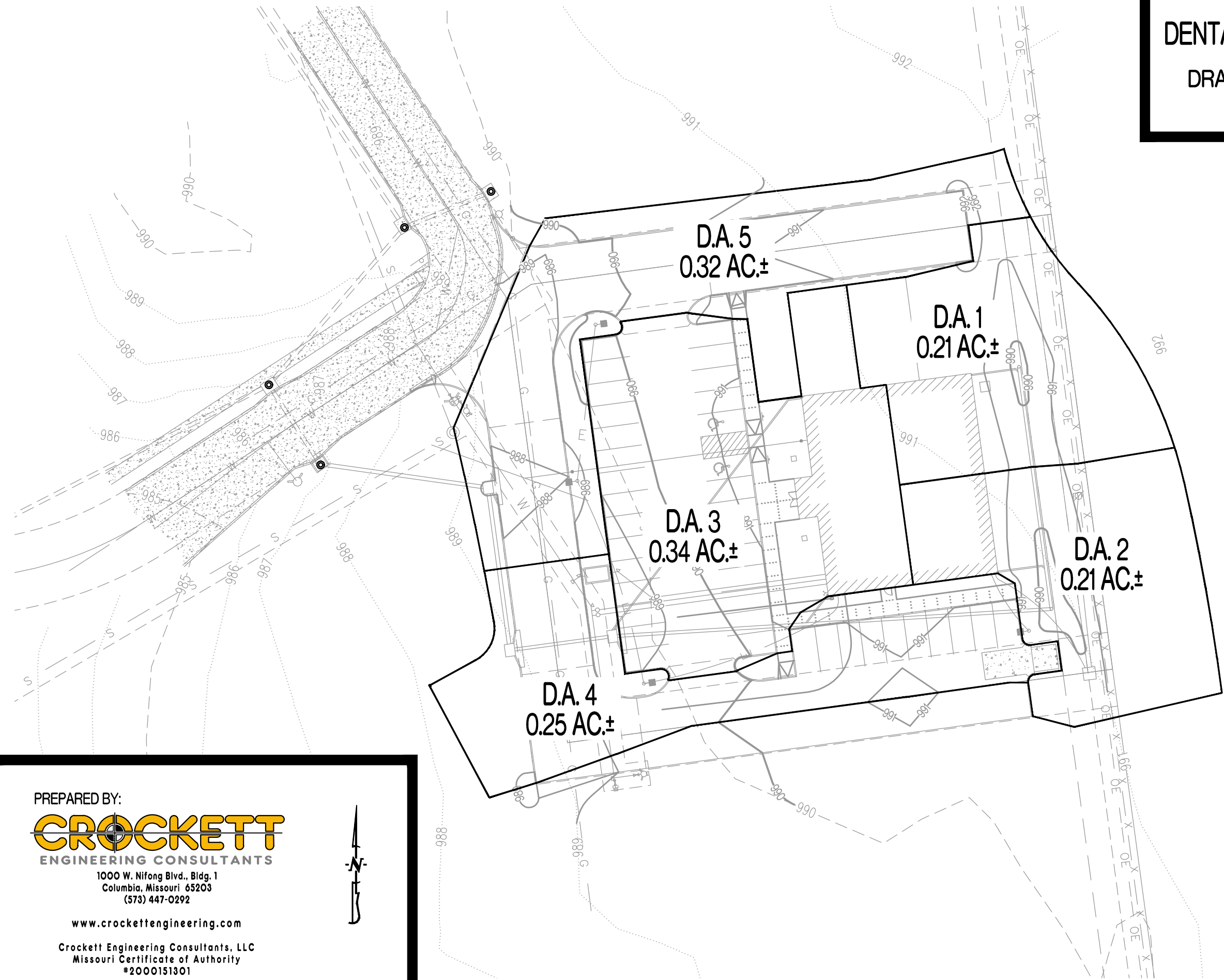
Nyloplast 12" Dome Grate Inlet Capacity Chart



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Structure #1E

DENTAL OFFICE - STROTHER CROSSING  
DRAINAGE AREA MAP - STORM SEWER  
SCALE: 1"=40'



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