



## UNSER-PASEO DEL NORTE (PDN) FINAL DRAINAGE REPORTS MEETING NOTES

MEETING DATE: February 13, 2024, 1:30 PM at COA Planning Conference Room

SUBJECT: Unser & PdN Final Drainage Reports Coordination with COA Planning Hydrology

ATTENDEES: Jennifer Morrow, COA DMD  
Debbie Bauman, COA DMD  
Jill Cuppernell, COA DMD  
Shellie Eaton, COA DMD  
Shahab Biazar, COA Planning, City Engineer  
Renée Brissette, COA Planning Hydrology  
Tiequan Chen, COA Planning Hydrology  
Hal Byrd, NV5  
Sheila Johnson, NV5

### DISCUSSION ITEMS:

#### 1. Status of Projects

- Unser and PdN Phase 1 projects have been combined for bidding and construction.
- Bidding is anticipated late this year (November), construction will likely begin in January 2025.
- A combination of local, state, and federal funding is being used for the projects. The schedule for the projects is being driven by federal funding (for the Unser project), which has to be obligated this fiscal year (FY 2024).
- Design of the combined Unser-PdN projects is at 90% complete, with PSE review anticipated in May 2024.
- The regional Unser Pond is being built with the combined project. AMAFCA is designing the Unser Pond (Wilson & Co. consultant) and their plans are being incorporated into the combined project plans. The City and AMAFCA are developing a cost sharing agreement for the construction costs of the pond. No other ponds are being built with the combined project.

#### 2. Drainage Reports review

- Separate Preliminary Drainage Reports (full project) for each project were submitted for review by Planning Hydrology.
- Submittal of Phase 1 Final Drainage Reports is pending resolution of hydrology method concerns.

- AHYMO was used for developing the hydrology for the Preliminary Drainage Reports for Unser and PdN as per the consultant contract scope of work and per City DPM.
- AHYMO is an acceptable method (noted as the primary method in the City DPM) for hydrologic analysis for City projects as per City DPM and stated guidance. The only other methods described in City criteria documents are SCS Curve Number, and Rational Method. The City does not intend to change this guidance.
- In review of the Preliminary Drainage Reports, Planning Hydrology requested hydrologic analysis for the projects be performed using HEC-HMS with SCS Curve number method/software. HEC-HMS is a more universally recognized hydrologic analysis software and is the method used for preparation of the watershed management plan (Upper Piedras Marcadas Watershed Management Plan) where the projects are located. Using AHYMO for the Unser - PdN projects introduces a different method and concern is this could result in differing flows being transmitted to critical locations or other undesired variations from the watershed management plan.
- Switching to HEC-HMS hydrologic analysis method would require additional time and effort (contract modification) and potentially disrupt the schedule to meet federal funding obligation timelines.
- To address these hydrologic method concerns, NV5 will provide a comparison of computed flows at critical design points for review by Planning Hydrology. This will allow for assurance that the design and reports comply with the watershed management plan. This will be included in the updated draft Final Drainage Reports.

### 3. Final Drainage Report Format

- With the combining of the Unser and PdN projects it would be desirable to have a single Final Drainage Report reflecting the finished construction project. However, if this creates extra work it is not required. An option could be to keep the reports more or less as they are, but submit them under a single cover page, similar to how the construction plans are being packaged. NV5 will assess the effort to provide a single report and confirm the approach with City DMD staff.

### 4. Schedule for Submitting Final Drainage Report(s) to Planning Hydrology

- Currently Planning Hydrology is in a lull between development reviews with work anticipated to pick up later in March. If the Final Drainage Report(s) can be submitted before late March, then a quick review is possible. NV5 will assess the timeline and report back to City DMD staff.

### 5. Adjacent Development Proposals



- New developments along Universe, Avenida de Jaimito, and near the intersection of Unser and PdN have been submitted to Planning for consideration. Planning will share submitted plans and documents for these developments with the Unser – PdN team going forward.

*These meeting notes represent the writers understanding of the discussions and decisions reached during the meeting. If corrections or edits are needed please contact Sheila Johnson at [Sheila.johnson@nv5.com](mailto:Sheila.johnson@nv5.com) , or (505)348-5227.*