September 11, 2020
City of Scottsdale
Megerdichian Senior Center
Written Responses to 1st Preliminary Review Comments
Reviewer: DG

Review comment *Response*

Master GD Plan Comments:

MGD1:

1- Label existing basin and include existing retention volume. Also include high water elevation, volume required and volume provided, appliable for all the basins.
There is only one existing basin, "D", that is labeled with the existing volume and all the required information above in the Existing drainage map.

2- Revise the drainage table to show detail of the basins.
A separate table for the basins is created. Shown on the Master Plan coversheet and on the Drainage Map cover sheet along with the revised Retention Table.

3- Add "25ZN-2018" to the right bottom corner of the sheet.
Added.

Drainage Report Comments:

Page 1:

1- Explain why there are revision dates on the report while this is the first time submittal for this zoning case.
It was a mistake, dates removed.

Page 4:

1- In the Existing Drainage:
   a. Per CH4 of the DSPM provide a 24" x 36" pre-development GD plan show and quantify Q_{100} historical entry and exist runoff locations, label them
   There is only one Q_{100} historically entering the site, it is discussed in the Existing Drainage in the Drainage Report and shown on the Existing Drainage Map, Appendix E of the report.

   b. Discuss what happens to existing on site SW storage volume.
   The existing surface basin, basin "D" will be expanded to provide adequate retention volume for it's retention area. This is discussed in the Onsite Drainage in the report.

c. Label existing basin, volume, HWSE
Labeled in the Existing Drainage Map, Appendix E of the report.

d. There is no such exhibit (Existing Topography Exhibit), please provide one and label it.
This is replaced by Existing Drainage Map, Appendix "D" of the report.

e. Discuss in detail if any of the existing site will be demolished.
There will be minor curb modifications in couple of locations, demolition plans will be provided for the final construction documents.

f. Describe in detail and show runoff enters and exists the site, show location and list device to convey runoff offsite, if any.
As discussed in the Existing Drainage in the report, the only runoff that enters the site on the north side, flows thru an existing channel, which discharges to the ADOT channel on the west of the site, per information provided in the drainage report, the ADOT or the channel do not over flow to the site.

g. Discuss how you're modeling the runoff. Are there multiple drainage sub area basin or just one? Show all the drainage sub area basins and label them.
Please see Methodology in the Drainage Report for the runoff calculations and the Drainage Calculations, Appendix B.
There are four tributary areas, and multiple drainage sub areas. Please see appendix F for the Drainage Map.

2- In the Proposed Drainage:
   a. Use a table to identify all existing and proposed basins, USST, etc. label if they're existing or new, provide storage volume.
   A table is provided on the Drainage Map and the Masterplan including all the information requested for the basins. All the basins are new (as noted on the Masterplan) and the only Existing basin is being expanded (Original existing basin information shown on the Existing Drainage Map, Appendix E).

Page 5:

1- In the Methodology:
   a. Revise this. It must be arranged so it represents the existing site and the proposed site.
   In the Existing Drainage/ Onsite, we are explaining the volume required and provided in the existing condition. We have calculated all sub areas including the existing and have provided retention for the 100-year-2-hour storm event for all the sub areas-including the existing.

Also, in the Proposed Drainage/Onsite, we are explaining the proposed site drainage.

b. Show existing and new storage provided/required.
Please see attached Preliminary Drainage Report by David Evans and Associates for the existing storage required and provided, and Drainage Map for the proposed storage required and provided.

c. Provide exhibit and detailed calcs showing how you calculated the post development C_W (Weighted Runoff Coefficient).
Please see Appendix B, Drainage Calculations for the C_W Calculations and Appendix D for the Weighted 'C' Exhibit.

Page 8:

1- Please provide the Existing Condition Exhibit now rather than in final report.
This is replaced by Existing Drainage Map, Appendix E.

Page 12:

1- Add descriptive title. Tell us what you're trying to show with these tables.
First table is the runoff coefficient calculations table, and second is the retention table showing the tributary areas, retention volume required and volume provided in surface and/or underground retentions for each tributary area, plus number of drywells provided, we have added a better descriptive titles.

2- Provide a 24"x36" exhibit to show all the drainage basins.
Please see Appendix F, Proposed Drainage Map for the basins.

3- Revise this (Retention Basin Table) so it's customed to this site.
Please see revised retention table on the Proposed Drainage Map and the Master Plan.

4- Show all the existing and proposed basins here. Provide a unique identifier for each basin.
Tables for the existing and proposed basins are added.