

Preliminary Engineering Plan Checklist

- 1. The name of the proposed project, vicinity map, a north-point indication, scale, date of preparation of the plans, and by whom prepared.
- 2. The location and dimensions of existing streets, easements, improvements and public and private utilities within and immediately contiguous to the proposed project.
- 3. The location and dimensions of proposed streets, easements, improvements and public and private utilities within the proposed project. Location, size and approximate grades of proposed sewers.
- 4. Cross-sections of proposed streets showing width of roadways and location of sidewalk and proposed street grades. Existing and proposed contour lines at one foot (1') intervals.
- 5. Stormwater detention calculations per Village requirements showing HWL, storage required, storage provided, and restrictor sizing calculations. Any detention storage system located under pavement must be designed to AASHTO HS-25 loading standard. The Village's allowable release rate is 0.18 cfs/Ac. Use $C=0.50$ for pervious areas, $C=0.95$ for impervious areas. Use Bulletin 70 rainfall data. Clearly show the overflow route for the site. Minimum restrictor size allowed, for maintenance reasons, is 2". Restrictors between 2" and 4" must be in a trap in a catch basin. Show the location and size of the restrictor. Provide a detail showing the restrictor catch basin.
- 6. Show location and approximate size of underground stormwater detention facilities. Details of final facility type (cast-in-place, pre-cast, pipe, box culvert, etc.) can be provided during final engineering.
- 7. Provide an exhibit to engineering scale showing the turning path of the Fire Department's responding vehicle, in this case the tower truck. Exhibit must show front and rear wheel paths and the extent of the front and rear overhangs, as provided in an "Autoturn" exhibit. The vehicle shall be shown maneuvering through the site in all possible directions of travel. Attached are the specifications for the tower apparatus. Fire lanes adjacent to buildings must have a minimum pavement width of 18' to accommodate the tower truck's outriggers. Fire lanes require a heavy duty pavement section. Asphalt pavement section to consist of: 2" Surface, 2-1/4" N-50 Binder, 5" N-30 Binder, and 4" CA-6 Stone Subbase.

- 8. When on-site lighting is proposed, provide a site photometric lighting diagram indicating lighting intensities. Also provide the associated catalog cuts for all roadway, parking lot, and building mounted luminaires. All fixtures must be flat bottom, sharp cut-off, and no wall pack style fixtures will be permitted.

- 9. A recent site Plat of Survey must accompany the Preliminary Engineering Plan submittal.

The Village of Arlington Heights Municipal Code can be accessed over the internet at www.vah.com .