

## GRAHAM COUNTY DRAINAGE CLEARANCE

A Grading and Drainage Plan prepared by a registered professional engineer OR a Drainage Clearance Form filled out by a registered professional engineer is required if:

- Your property is located in Eureka Springs, Thunderbird Valley, Thunderbird Hills or Sunset View subdivisions. In these subdivisions, drainage clearance is required whether or not your property is in a flood hazard zone. If your property is in a flood hazard zone, you are also required to obtain a Floodplain Permit from Graham County Engineering.

OR

- The Graham County Engineer determines that Drainage Clearance is necessary.

A building permit will not be issued until the Graham County Engineer has approved the Grading and Drainage Plan or the Drainage Clearance Form prepared, signed and stamped by a registered professional engineer.

Items that are required in the Grading and Drainage Plan are listed in the attached State Standard 6-96. The Drainage Clearance Form is also attached.

**GRAHAM COUNTY  
DRAINAGE CLEARANCE FORM**

I certify that the finished floor elevation is above the 100 year flood event elevation and that the proposed improvement(s) will not adversely affect the drainage on surrounding parcels.

Parcel Number \_\_\_\_\_ Owners Name \_\_\_\_\_

Construction address \_\_\_\_\_

Structure \_\_\_\_\_ Elevation of finished floor \_\_\_\_\_

Datum used \_\_\_\_\_

On Site Bench Mark \_\_\_\_\_

Engineer's Name \_\_\_\_\_

Company Name \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

Telephone \_\_\_\_\_ Fax \_\_\_\_\_

License Number \_\_\_\_\_

\_\_\_\_\_  
Engineer's Signature

\_\_\_\_\_  
Date



ARIZONA DEPARTMENT OF WATER RESOURCES  
FLOOD MITIGATION SECTION

**State Standard  
For  
Development of Individual Residential Lots  
Within Floodprone Areas**

Under authority of ARS 48-3605 (A), the Director of the Arizona Department of Water Resources establishes the following standard for *Development of Individual Residential Lots within Floodprone Areas* in Arizona:

In addition to providing floodwater surface elevations, floodplain limits and floodway limits for use in fulfilling the requirements of Flood Insurance Studies, local community officials may require the information specified in State Standard Attachment 6-96 (SSA 6-96) or by an alternative procedure reviewed and accepted by the Director.

These guidelines shall apply to individual residential lots located in all flood hazard areas identified either by the Federal Emergency Management Agency as part of the National Flood Insurance Program or by the local Floodplain Administrator. Application of these guidelines will not be necessary if the local community or county has in effect drainage, grading, or storm water ordinance which, in the opinion of, the Department, results in the same or greater level of flood protection as application of these guidelines would ensure.

This requirement is effective November 1, 1996. Copies of this State Standard can be obtained by contacting the Arizona Department of Water Resources at (602) 417-2445. Should you need this publication in alternate format, please contact the Arizona Department of Water Resources with your needs at (602) 417-2445 or (602) 417-2455 (TDD).

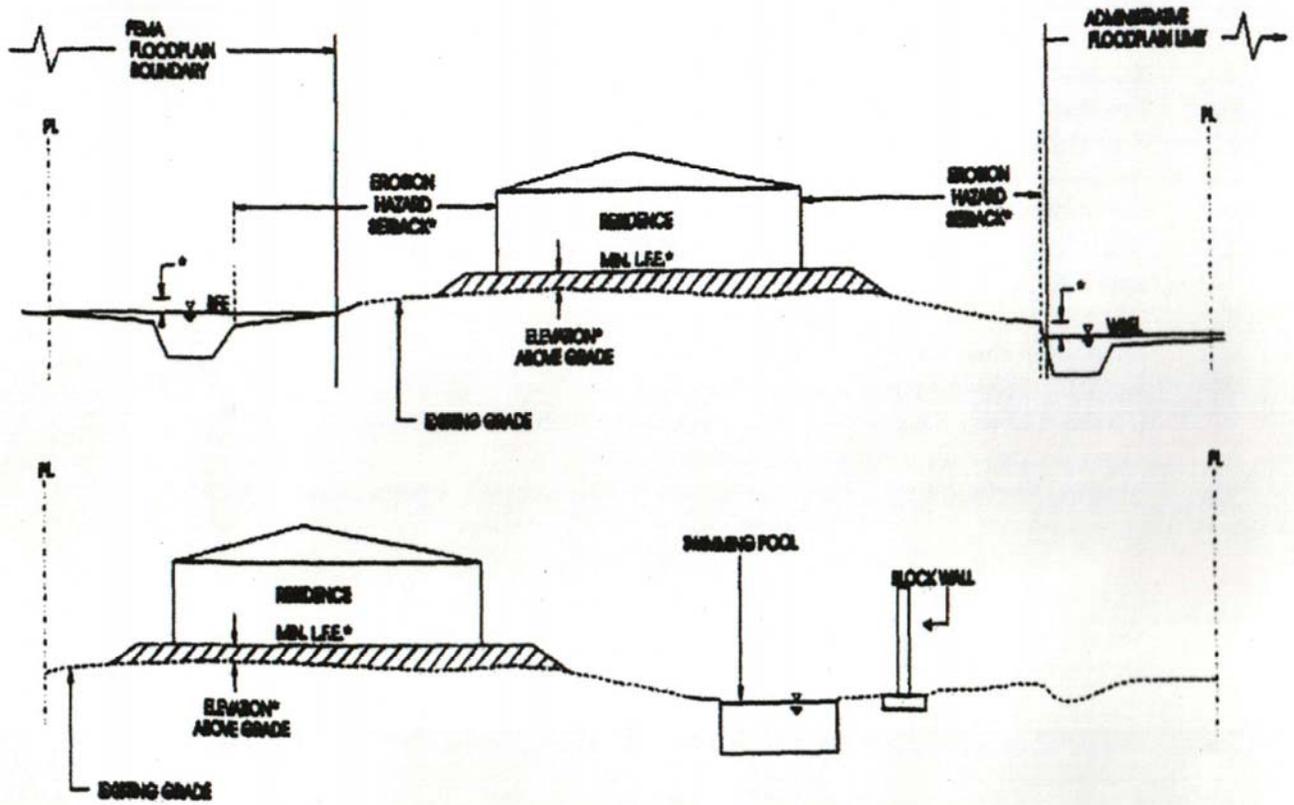
## SITE PLAN CHECKLIST

A site plan (plot plan) is required and should be drawn to a scale (not smaller than 1" – 60') in black ink suitable for reproduction and include the following information at a minimum:

1. All watercourses on the subject lot or within 300 feet of existing or proposed buildings. For purposes of this State Standard a watercourse is defined as having a drainage area greater than one quarter square mile or yielding a peak flow rate greater than 500 cfs (cubic feet per second) during a 100-year flood event.
2. Subject lot boundary dimensions with drawing scale and north orientation arrow.
3. Proposed structure location, including its external dimensions.
4. Any existing structure location, including its external dimensions.
5. Adjacent alleys, roads, streets or means of access.
6. Location of driveway(s) and distance to nearest property line.
7. Building setback distances (measured from nearest top of bank) – erosion hazard (if applicable).
8. Distance(s) from existing and proposed buildings to property line.
9. Distance(s) between buildings (if applicable).
10. Location of entire septic system (if applicable).
11. Location of all on-site utility poles, meters (and elevations), lines, etc.
12. Terrain slope – local drainage flow directions.
13. Slope information (may be given in units of feet per foot or percentage of slope).
  - a. Indicate high point and low point of subject lot if terrain slopes
  - b. Indicate by arrow or contour the direction of terrain slope.
  - c. Indicate difference in elevation between high point and low point of lot.
  - d. Field photographs with scale of watercourse.
14. All road cuts or fills within 50 feet of the subject parcel, roadside ditches and culverts (including size).
15. Location and type of walls and fences (and adjacent property), existing and proposed.
16. Minimum LFE (Lowest floor elevation).
17. Two cross sections of the parcel drawn to an appropriate scale. Both cross sections should include the house site, and at least one of the cross sections should include the watercourse(s).
18. Grading limits.
19. FEMA (Federal Emergency Management Agency) Floodplain Boundaries.
20. Administrative floodplain limits.
21. All easements.
22. Temporary Benchmark

Note: All measurements must be in English Units (i.e., feet).





## TYPICAL CROSS-SECTION

Scale  
(Typical)

- Established by Local Jurisdiction

NOTE: Maximum fill and structure height as established by local jurisdiction.

BEF=Base Flood Elevation

WSEL=Water Surface elevation.