

CHAPTER 3 - SITE PREPARATION

300. GENERAL. Site preparation must conform to referenced standards in Chapter 1.

301. DRAINAGE

301-1. RAIN DIVERSION. Provide the best available routing of run-off water to assure that buildings or other important facilities will not be endangered by the path of a major emergency flood run-off which would occur if the site storm drainage system is exceeded.

301-2. SITE-PLAN. Arrange structures on sites to retain natural drainage patterns (*MPS HUD Document 4910.1, Chapter 3*).

301-3. ROOF DRAINAGE. Control roof drainage by use of gutters and downspouts. Route away from foundation walls.

302. SITE-GRADING

302-1. GENERAL. Site-grading plan must be approved by HUD, according to the *Land Planning Data Sheet 79g* and *HUD Handbook 4145.1* (Appendix 8). Site grading and drainage must be performed to provide diversion of surface water away from the foundation and off the site, to prevent standing water. Design the new slope to tie in with natural grading.

302-2. RECOMMENDED TESTS. Obtain soil analysis, bearing tests, or special foundation design where soil stability is questionable.

303. FILL

303-1. GENERAL. Bearing for footings or foundations on engineered fill is permitted where determined acceptable by HUD Field Office and Geotechnical Engineer.

303-2. FILL SPECIFICATIONS. Fill must be engineered fill, (to 90% compaction, Modified Proctor Test, ASTM D1557) free of organic material such as weeds, or grasses, or other organic matter.

303-3. ENGINEERED FILL. Engineered fill shall have a minimum load bearing capacity as recommended by a Geotechnical Engineer. Use *HUD Land Planning Data Sheet 79g* for preparation requirements.

304. FINISH GRADE ELEVATION. The finish grade must be in accordance with *HUD Handbook 4145.1*, paragraph 3-4.A.6).