



Engineering Consultants

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Fort Collins, Colorado 80521
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OK for Phase II Cert
12/20/95

December 13, 1995

Need Cert for N Pond
& Invert of outfall pipes
Entered go

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Mr. Basil Hamdan
City of Fort Collins
Utility Services Stormwater
235 Mathews Street
Fort Collins, Colorado 80522

RE: Arapahoe Farms Townhomes P.U.D.--Phase II
Drainage Certification

PROJECT NO.: 607-004

Dear Basil:

On December 1, 1995, RBD, Inc. field verified the elevations at the Arapahoe Farms Townhomes for Phase II. The attached Drainage Plan and Grading Plan shows the elevations found. Also, please find the detention volume calculations for the south pond located in the southeast corner of the site. The detention capacity is adequate for the completion of Phase III construction. The finished floor elevations of the building units are higher than the surrounding areas and will be protected from developed runoff. The drainage around buildings 'G', 'H', 'I' and 'J' follows underdrains in swales around the perimeters where shown on the drainage plan.

Runoff from phase II of the developed site will be conveyed to the north pond by two channels, one is the private drive on the south side of units 'E' and 'F' and the other is Swale 'F' north of the buildings. The private drive is paved having adequate flow capacity for runoff from the developed site.

Final grading of the south pond with a concrete pan was completed. The pond has inflow from Harmony Road via 15' curb inlet with three 24" diameter pipes (equivalent area to a 42" diameter pipe as shown in the drainage plan). The three 24" diameter pipes were used to avoid conflicts with existing utility lines within the Harmony Road R.O.W.

Thank you for your time and consideration of this Certification submittal.

Sincerely,
RBD Inc. Engineering Consultants



[Handwritten signature]
Terrence McEnany, P.E.
Project Engineer

cc: James Company

Denver 303/458-5526