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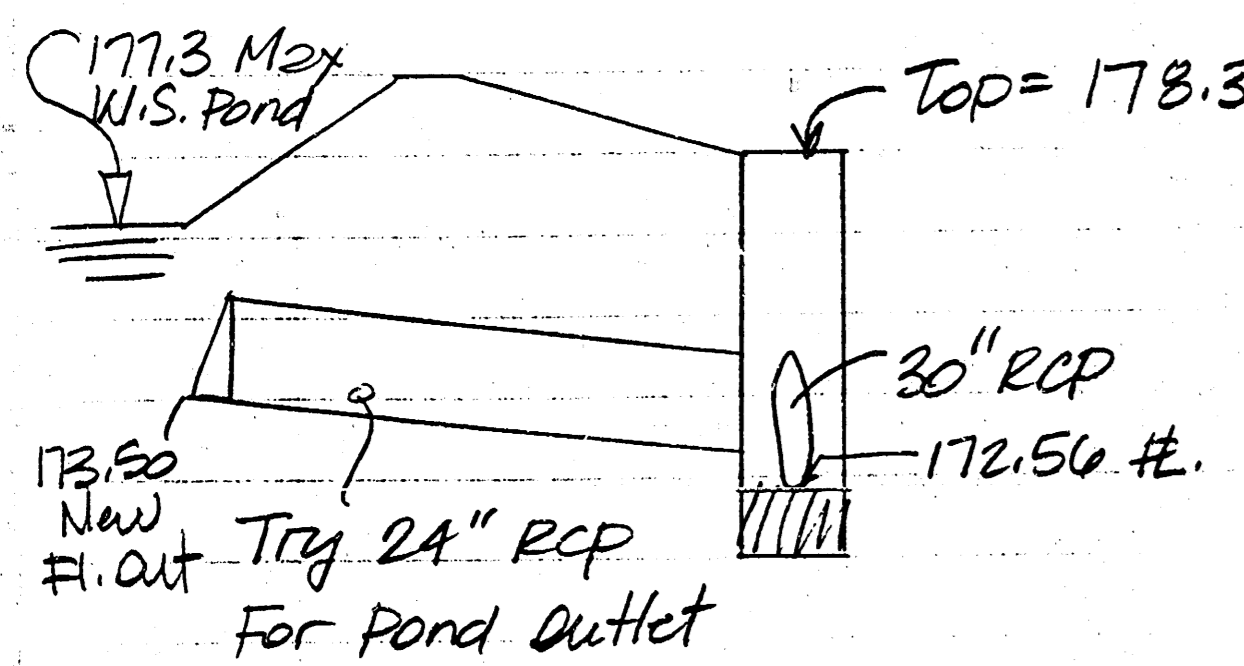
The Plaza e Cherry Creek Hills Drainage Plan

Pond located e North East Corner of Site. DA = 10.6 Acres (Area A) TC = 20 minutes.

Available outlet structure = Inlet; Pipe installed w/ RDOT Project for Pawnee. 12.5 Acres Used on Drainage Plan.

D.S. Pipe from Inlet = 30" RCP. C Slope = 0.5%; Capacity 30" RCP = ± 29 cfs. (Gravity Flow, Mannings Equation).

Target < 29 cfs Outlet from Pond.



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Use CN developed = 93

Use 24" RCP From New Pond; FI = 173.50

For Inlet Control - 24" RCP from Pond.

Table with 5 columns: Elev., HWI, Q(24") RCP, Area (Acres) Pond, Area S.F. Rows show data for elevations 177, 176, 175, 174, and 173.5.

Results: Q100 out = 27 cfs, WS = 176.91 (target 177.3), Q1 = 57 cfs

Required Pond:

Area @ Elev = 177 = 29,620. Side Slope (down) = 4:1. Outlet = 24" RCP, Flow out of pond = 173.5. Any amount of Excavation below 173.5 is O.K. as desired.

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For Balance of Area "A", Use on site SWS or overland flow to convey water to Pond.

Area "B" Southeast Corner of Site:

A = 0.75 Acres, Cs = 0.69 (Neighborhood Business), C100 = 0.80 (Ditto), TC = 15 minutes, Is = 4.56"/ft, U100 = 7.37"/ft, Q5 = 2.4 cfs, Q100 = 4.4 cfs

Drainage to Pawnee; Oak Knoll Via Driveways

Area "C" Southwest Corner of Plat.

Area = 3.7 Acres, Cs = 0.69, Is = 4.56"/ft, C100 = 0.80, U100 = 7.37"/ft, TC = 15 minutes, Q5 = 11.4 cfs, Q100 = 21.8 cfs

Drainage Via Storm Water Sewer Across KEE Property to West.

Model 5701 234000344 Revision 4.33 Data File: RECDR.MCI

Model input parameters including FLOOD HYDROGRAPH PACKAGE, MODEL, YEAR, and RUN DATE.

Model output summary including FLOOD HYDROGRAPH PACKAGE, MODEL, YEAR, and RUN DATE.

Model output table with columns: LINE, ID, REASON FOR MODEL FLAG, and various numerical values.

Model output parameters including FLOOD HYDROGRAPH PACKAGE, MODEL, YEAR, and RUN DATE.

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Model output table with columns: FLOOD HYDROGRAPH PACKAGE, MODEL, YEAR, and RUN DATE.

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Hydrograph at Station: DEVEL. Table showing rainfall, loss, excess, and runoff data for various time intervals.

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