

Mountain View Housing Complex Rev. E

Prepared by Applied Microcomputer Systems

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Type II 24-hr 25-Year Rainfall=4.30"

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Time span=10.00-40.00 hrs, dt=0.10 hrs, 301 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: TR-55 Tc Calculation Example 3-1Runoff Area=20.000 ac Runoff Depth=1.60"
Flow Length=8,800' Tc=91.9 min CN=71 Runoff=11.74 cfs 2.672 af**Subcatchment 2S: East side of ridge**Runoff Area=43.500 ac Runoff Depth=0.65"
Flow Length=1,295' Tc=31.1 min CN=55 Runoff=16.08 cfs 2.371 af**Subcatchment 3S: North-East side of ridge**Runoff Area=27.000 ac Runoff Depth=0.65"
Flow Length=750' Tc=24.8 min CN=55 Runoff=11.68 cfs 1.472 af**Subcatchment 4S: Existing NW meadow**Runoff Area=12.000 ac Runoff Depth=0.91"
Tc=25.0 min CN=60 Runoff=8.56 cfs 0.914 af**Subcatchment 10S: South Woods**Runoff Area=25.000 ac Runoff Depth=0.91"
Flow Length=1,050' Tc=46.7 min CN=60 Runoff=11.53 cfs 1.903 af**Subcatchment 11S: Old Orchard**Runoff Area=25.000 ac Runoff Depth=0.91"
Flow Length=831' Tc=23.2 min CN=60 Runoff=18.56 cfs 1.903 af**Subcatchment 20S: Housing Area**Runoff Area=25.000 ac Runoff Depth=0.65"
Flow Length=1,018' Tc=27.0 min CN=55 Runoff=10.27 cfs 1.363 af**Subcatchment 22S: South-East Woods**Runoff Area=23.000 ac Runoff Depth=0.70"
Flow Length=1,280' Tc=27.0 min CN=56 Runoff=10.61 cfs 1.348 af**Reach 1R: New R.C.P.**Peak Depth=1.55' Max Vel=11.8 fps Inflow=38.32 cfs 7.429 af
D=30.0" n=0.013 L=1,475.0' S=0.0169 '/ Capacity=53.40 cfs Outflow=37.15 cfs 7.429 af**Reach 2R: Channelized Stream**Peak Depth=1.41' Max Vel=3.6 fps Inflow=20.88 cfs 2.820 af
n=0.036 L=455.0' S=0.0099 '/ Capacity=44.04 cfs Outflow=19.99 cfs 2.820 af**Reach 3R: Existing Stream Bed**Peak Depth=1.38' Max Vel=2.3 fps Inflow=29.24 cfs 12.096 af
n=0.040 L=5,500.0' S=0.0047 '/ Capacity=38.76 cfs Outflow=17.62 cfs 12.085 af**Reach 4R: Existing Stream Bed #2**Peak Depth=1.23' Max Vel=2.0 fps Inflow=13.76 cfs 13.871 af
n=0.035 L=1,853.0' S=0.0025 '/ Capacity=83.43 cfs Outflow=13.51 cfs 13.863 af**Pond 1P: New Pond 1**Peak Elev=54.49' Storage=3.156 af Inflow=60.54 cfs 11.236 af
Primary=12.25 cfs 9.276 af Secondary=10.92 cfs 1.798 af Outflow=23.17 cfs 11.073 af**Pond 3P: South Wetland Area #3**Peak Elev=21.59' Storage=3.164 af Inflow=17.62 cfs 12.085 af
Outflow=11.38 cfs 12.073 af**Link 1L: Overflow from off-site brook**Manual Hydrograph above 1.20 cfs Inflow=1.90 cfs 0.678 af
Primary=0.70 cfs 0.109 af Secondary=1.20 cfs 0.569 af**Total Runoff Area = 200.500 ac Runoff Volume = 13.946 af Average Runoff Depth = 0.83"**