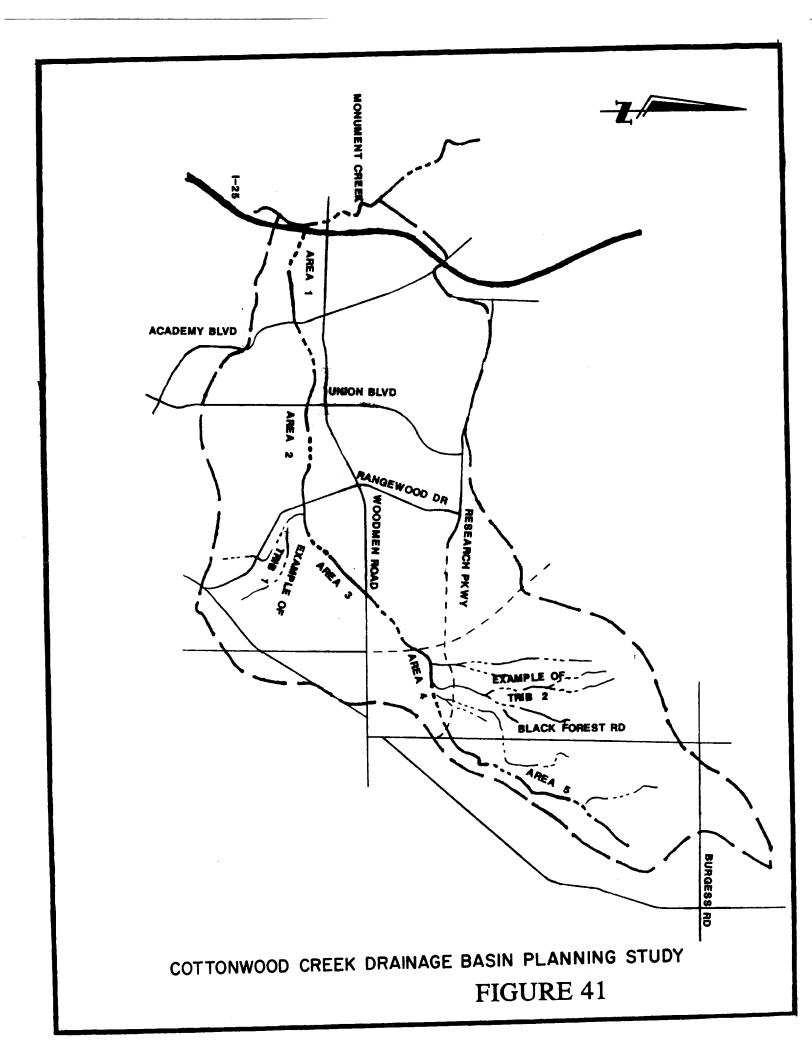
COTTONWOOD CREEK
DRAINAGE BASIN PLANNING STUDY
APPENDIX B
AUGUST 24, 1992
TABLE 13
SUMMARY OF ALTERNATIVE CONSTRAINTS



COTTON CONCENTRAL TO A PAGE 47

COTTONWOOD CREEK DBPS - TABLE 13 URS PROJECT NUMBER 49209 SUMMARY OF ALTERNATIVE CONSTRAINTS

AREA 1

COTTONWOOD CREEK MAIN CHANNEL MONUMENT CREEK TO ACADEMY BLVD PINE CREEK MAIN CHANNEL MONUMENT CREEK TO 1-25

100-YEAR FLOW RANGES FROM 16,000 TO 17,000 CFS
100-YEAR VELOCITY RANGES FROM 10 TO 20 FPS

DESCRIPTION

The majority of the existing channel consists of a natural channel with bridge structures for roadway crossings. The channel is fairly narrow (40'-80') and deep (10'-15' depth for the 100-year flow). The channel currently has the capacity to carry the 100-year storm except that the streambed is currently eroding and the stability of the banks is in question due to the steepness of the side slopes. These are concerns in regard to the future stability of the bridges in this area. The primary type of environment is riparian forest which is a high value wildlife habitat due to the semi-isolated nature of this area. There are some wetlands in the bottom of the channel but the primary environmental concern is the wildlife habitat. The land uses planned for this area are fairly high density (residential and other) next to the channel. The majority of the land is platted next to the channel with a mix of setbacks from the buildings to the channels. The present development occurred without any improvements to the main channel of Cottonwood Creek. There is a trail and utility main proposed along this corridor but there may be some problems in actually building either of these. The maintenance of this area is a problem due the difficulty in getting maintenance access to the channel banks and bottom.

| ALTERNATIVE | ADVANTAGES OF ALTERNATIVE | DISADVANTAGES OF ALTERNATIVE |
|---------------|---|---|
| ALTERNATIVE A | Conserves wildlife habitat Limited permitting involved - only for bridges, grade control where needed, isolated bank protection and maintenance considerations Limited mitigation required only for any new bridges planned | Significant safety risk due to potential bank failure May require some additional right-of-way in existing development or comprehensive inspection program Requires significant maintenance program to protect existing development and bridges from hazards of erosion May require additional setbacks in areas that have been platted but not developed yet |
| | - - | Does not address additional improvements needed to protect existing bridges |
| ALTERNATIVE B | Maintain existing right-of-way requirements Protect existing and property from flood damage | May require selective removal of existing trees Construction of this type of improvement would be very difficult to accomplish with the nature of the existing banks The type of habitat may be difficult or impossible to replace due the maturity of the vegetation |
| | | Maintenance of this type of channel will be difficult to accomplish |
| ALTERNATIVE C | 7D | This alternative was eliminated due the the difficulties with construction and mitigation |

RECOMMENDATIONS

The recommendation for this area is to select alternative A and implement a comprehensive inspection/maintenance program by the City and County to protect public safety. Setbacks for any new buildings would need to be closely monitored. Critical erosion areas will use alternative B.

COTTONWOOD CREEK DBPS -URS PROJECT NUMBER 49209 SUMMARY OF ALTERNATIVE CONSTRAINTS

AREA 2

COTTONWOOD CREEK MAIN CHANNEL ACADEMY BLVD TO RANGEWOOD DRIVE 100-YEAR FLOW RANGES FROM 14,000 TO 16,000 CFS 100-YEAR VELOCITY RANGES FROM 10 TO 15 FPS

DESCRIPTION

The existing channel is a mix of natural channel and channel similar to alternative B (partially lined). The channel is moderate in width (115'-200') and moderate in depth (4'-9' depth for the 100-year flow). The channel does not have the capacity to carry the full 100-year flow in most cases. However, additional capacity is available by increasing the depth with the exception of the north bank of the channel upstream of Union Blvd. The channel is currently having erosion problems at the existing bridge crossings. The lower reaches of this area also have some bank stability problems due to the steepness of the side slopes. The existing environment consists of a combination of shrub wetland and riparian forest, with the former predominant. This type of environment has the highest degree of beta diversity for the basin and both the wetlands and wildlife habitats are of fairly high value. The land uses in this area consist of a mixture of low to moderate density residential and parks. The majority of the land next to the channel is already developed. This area has both a proposed trail and an existing utility corridor. There are also existing recreational facilities both along and adjacent to this corridor. The maintenance of this area is moderate in difficulty with some maintenance roads already in place.

ALTERNATIVE ADVANTAGES OF ALTERNATIVE DISADVANTAGES OF ALTERNATIVE

ALTERNATIVE A Conserves wildlife habitat and diversity Limited permitting involved - only for bridges, grade control where needed, isolated bank protection and maintenance considerations Limited mitigation required only for any new bridges planned

Requires additional right-of-way in existing development which is not readily available Downcutting of the streambed and bank erosion will continue to be a problem

The existing bridge structures, especially at Union Blvd., are still at risk The existing recreational uses are urban in character instead of natural

ALTERNATIVE B Least costly alternative when construction, land, , mitigation and maintenance costs are considered Maintain existing right-of-way requirements Protect existing improvements and property from flood damage Most of the existing improvements are already built this way Use of drop structures could actually enhance the diversity of the wetland types

May require selective removal of existing vegetation Some onsite mitigation may be required Some disturbance of habitats will occur during construction

ALTERNATIVE C/D

This alternative was eliminated since it does not fit into the existing channel types and recreational uses

*RECOMMENDATIONS

The recommendation for this area is to use alternative B since it best fits the nature of the existing channel and recreational uses and still safeguards both public safety and the environment. This area also has the potential to be used for mitigation measures.

COTTONWOOD CREEK DBPS - TABLE 1
URS PROJECT NUMBER 49209

SUMMARY OF ALTERNATIVE CONSTRAINTS

AREA 3

COTTONWOOD CREEK MAIN CHANNEL RANGEWOOD DRIVE TO WOODMEN ROAD

100-YEAR FLOW RANGES FROM 6,000 TO 14,000 CFS 100-YEAR VELOCITY RANGES FROM 10 TO 15 FPS

DESCRIPTION

The existing channel consists of a low flow channel with an overbank area that is from 100' to 250 feet wide. The depth of flow for the 100-year storm is moderate. The capacity of the channel is adequate if you consider the overbank area as part of the full system. There is evidence of considerable bed degradation especially at the Woodmen capacity of the channel is adequate if you consider the overbank area as part of the full system. There is evidence of considerable bed degradation especially at the Woodmen Bridge. The bank slopes are moderate with exceptions in isolated cases. The primary environmental value for this area is in the wetlands and wildlife habitat that exist in the channel bottom. The land uses for this area consist of undeveloped industrial and commercial types. This area is also both a planned trail and utility corridor.

ALTERNATIVE

ADVANTAGES OF ALTERNATIVE

ALTERNATIVE A There is an opportunity to enhance wildlife habitat and diversity

Limited permitting involved - only for bridges, grade control where needed, isolated bank protection and maintenance considerations

Limited mitigation required only for any new bridges planned

Limited mitigation required only for any new pringes planned

ALTERNATIVE B Least costly alternative when construction, land, , mitigation and maintenance

costs are considered

Minimal right-of-way requirements beyond the existing channel width
Use of drop structures could actually enhance the diversity of the wetland
types and wildlife habitat

Minimize maintenance requirements compared to the other alternatives High potential for multi-use in a more urban setting

DISADVANTAGES OF ALTERNATIVE

Existing channel is in Piney Creek alluvium which is suceptible to erosion Downcutting of the streambed and bank erosion will continue to be a problem The rural character of this alternative may not be compatible with planned land uses

Cost of land required is significant compared to other alternatives
High maintenance costs may be involved due to the erodable nature of the soils

May require some removal and replacement of existing vegetation Some onsite mitigation may be required

Some onsite mitigation may be required Some disturbance of wetlands will occur during construction

ALTERNATIVE C/D

This alternative was eliminated since it was the highest cost due to mitigation required

RECOMMENDATIONS

The recommendation for this area is to use alternative B since it best fits the nature of the existing channel and recreational uses and still safeguards both public safety and the environment. This area also has the potential to be used for mitigation measures.

COTTONWOOD CREEK DBPS -URS PROJECT NUMBER 49209

SUMMARY OF ALTERNATIVE CONSTRAINTS

AREA 4

COTTONWOOD CREEK MAIN CHANNEL WOODMEN ROAD TO BLACK FOREST ROAD

100-YEAR FLOW RANGES FROM 1,300 TO 6,000 CFS 100-YEAR VELOCITY RANGES FROM 9 TO 12 FPS

DESCRIPTION

The majority of the existing channel in this area is deeply incised and fairly narrow (80'+/-). This is evidence of the significant amount of bed erosion that is occurring in this area. The channel does have the capacity to carry the flow but the stability of some of the banks is in question due to both the steep slopes and the ample evidence of erosion caused by gullying at points of concentrated flow. This area has a relatively low value for the environmental aspects since the vegetation is patchy or sparse. This may be due to both the instability of the channel and some overgrazing by livestock. The land uses in this area call for a linear park along the channel and residential or commercial uses outside that. The westerly part of this area is where some of the major transportation links cross Cottonwood Creek. Woodmen Road, Austin Bluffs Parkway, and Powers Blvd. all cross Cottonwood Creek in this area. The majority of the land is unplatted in this area. This is also a planned utility corridor and trail link. Access to the bottom of the existing channel would be very difficult for maintenance activities to take place.

ALTERNATIVE

ADVANTAGES OF ALTERNATIVE

ALTERNATIVE A There is an opportunity to enhance wildlife habitat and diversity Limited permitting involved - only for bridges, grade control where needed, isolated bank protection and maintenance considerations Limited mitigation required only for any new bridges planned

ALTERNATIVE B Minimal right-of-way requirements beyond the existing channel width Use of drop structures could actually enhance the diversity of the wetland

types and wildlife habitat High potential for multi-use in a more urban setting

Able to control erosion problems that are occurring Public safety is protected with lowest cost for channels May be able to improve aesthetics with this treatment

ALTERNATIVE Minimum right-of-way required for channels C/D

Minimum bridge costs for the many crossings in the westerly portion of this

Able to control erosion problems that are occurring Allows additional area for parks outside the channel itself

Reduces maintenance requirements and costs

DISADVANTAGES OF ALTERNATIVE

Existing channel has significant erosion occurring Downcutting of the streambed and bank erosion will continue to be a problem High maintenance costs may be involved due to the erodable nature of the soils and the access difficulties

It is questionable whether the width of the park is adequate for required buffer areas

May require some removal and replacement of existing vegetation Some onsite mitigation may be required Some disturbance of wetlands will occur during construction May have some problems with actually constructing this type of facility

Requires removal of existing vegetation Some offsite mitigation may be required Eliminates wetlands totally in this area where they occur May be more difficult to fit into park setting Mitigation costs should be moderate

RECOMMENDATIONS

For this area the recommended solution is to use alternative B.

COTTONWOOD CREEK DBPS - TABLE 13 URS PROJECT NUMBER 49209

SUMMARY OF ALTERNATIVE CONSTRAINTS

AREA 5

COTTONWOOD CREEK MAIN CHANNEL BLACK FOREST ROAD TO EAST SIDE OF THE BASIN

ADVANTAGES OF ALTERNATIVE

100-YEAR FLOW RANGES FROM LOW TO 1,500 CFS
100-YEAR VELOCITY RANGES FROM 5 TO 8 FPS

DESCRIPTION

ALTERNATIVE

DESCRIPTIO

The existing channel in this area transitions from the deeply incised channel characteristic of area 4 to numerous small tributaries in the Black Forest area. The channel varies in width from 20 to 80 feet. The capacity is available to handle the 100-year storm. This area predominantly has herbaceous wetlands where they are present with some shrub wetlands. The potential for wetlands is high with a significant amount of open water but it has been grazed and disturbed. The wildlife habitat has realtively high beta diversity along the channel but is not very significant away from the channel. The land uses planned for this area transition from urban residential densities by Black Forest Road to rural five acre lot densities in the Colorado Black Forest. The soils in this area include some sandstone and claystone outcrops with the majority being glacial deposits. The area in the forest will be difficult to maintain with heavy construction equipment since there is limited access available.

DISADVANTAGES OF ALTERNATIVE

| ALTERNATIVE A | The right-of-way is available for this type of channel since the planned densities are low Limited permitting involved - only for bridges, grade control where needed, isolated bank protection and maintenance considerations Limited mitigation required only for any new bridges planned | Downcutting of the streambed and bank erosion may be a problem High maintenance costs may be involved due to the erodable nature of the soils and the access difficulties |
|---------------|---|--|
| ALTERNATIVE B | Minimal right-of-way requirements beyond the existing channel width Use of drop structures could actually enhance the diversity of the wetland types and wildlife habitat Able to control erosion problems that are occurring May be able to improve aesthetics with this treatment | May require some removal and replacement of existing vegetation Some onsite mitigation may be required Some disturbance of wetlands will occur during construction May have some problems with actually constructing this type of facility in the |

ALTERNATIVE C/D

This alternative was eliminated due the the difficulties with construction and mitigation

RECOMMENDATIONS

For this area the recommended solution is a combination of alternatives A and B. Alternative B would be used mostly in the westerly portion of the basin in order to transition from the reach downstream and alternative A would be used for the remainder of the area.

COTTONWOOD CREEK DBPS - TABLE 13 URS PROJECT NUMBER 49209 SUMMARY OF ALTERNATIVE CONSTRAINTS

JUMPANI OF ALTERNATIVE CONSTRAINS

TRIBUTARY TYPE 1

TRIBUTARIES WITH JURISDICTIONAL WETLANDS PRESENT

DESCRIPTION

There are several of the tributaries to Cottonwood Creek that are very similar to area 3 of the main channel. The flows are less but the environmental characteristics are similar. The velocities for these areas are fairly high due to the slopes of the existing channels. The primary environmental value for this area is in the wetlands and wildlife habitats that exist in the channel bottom. The land uses for this area vary depending on where you are, with urban type densities planned. Some of these channels are already improved.

| ALTERNATIVE | ADVANTAGES OF ALTERNATIVE | DISADVANTAGES OF ALTERNATIVE |
|---------------|--|---|
| ALTERNATIVE A | There is an opportunity to enhance wildlife habitat and diversity Limited permitting involved - only for bridges, grade control where needed, isolated bank protection and maintenance considerations Limited mitigation required only for any new bridges planned | Existing channels are susceptible to erosion Downcutting of the streambed and bank erosion will continue to be a problem The rural character of this alternative may not be compatible with planned land uses Cost of land required is significant compared to other alternatives High maintenance costs may be involved due to the erodable nature of the soils |
| ALTERNATIVE B | Least costly alternative when construction, land, , mitigation and maintenance costs are considered | May require some removal and replacement of existing vegetation Some onsite or offsite mitigation may be required |

costs are considered
Minimal right-of-way requirements beyond the existing channel width

Use of drop structures could actually enhance the diversity of the wetland types and wildlife habitat

Minimize maintenance requirements compared to the other alternatives High potential for multi-use in a more urban setting May require some removal and replacement of existing vegetation.

Some onsite or offsite mitigation may be required.

Some disturbance of wetlands will occur during construction.

ALTERNATIVE C/D

This alternative was eliminated since it was the highest cost due to mitigation required

RECOMMENDATIONS

In the recommendation for this area is to use alternative B since it best fits the nature of the existing channel and recreational uses and still safeguards both public safety and the environment. This area also has the potential to be used for mitigation measures.

COTTONWOOD CREEK DBPS - TABLE 13
URS PROJECT NUMBER 49209
SUMMARY OF ALTERNATIVE CONSTRAINTS

TRIBUTARY TYPE 2

TRIBUTARIES WITHOUT JURISDICTIONAL WETLANDS PRESENT

DESCRIPTION

The remainder of the tributaries for the basin consist of either areas not classified as environmentally sensitive or open rangeland. These areas are primarily agricultural with little or no defined channel. While there may be some potential for wildlife corridors, fully developed conditions will not be compatible with these. These areas will most likely develop in the urban densities typical of the rest of the developed area in the basin.

RECOMMENDATIONS

The improvements for this area will include a full range of the three channel alternatives in addition to street/storm sewer combinations. These area will be looked at on a reach by reach basis based on the land use plans for the particular reach.

COTTONWOOD CREEK DRAINAGE BASIN PLANNING STUDY APPENDIX B AUGUST 24, 1992 TABLE 14 INITIAL SYSTEM EXAMPLE LOCATION NO. 1

COTTONWOOD CREEK DBPS - TABLE 14 INITIAL SYSTEM - EXAMPLE LOCATION NO. 1

| UPGRADE TO EX | KISTING SYSTE | M COST | ESTIMATE | |
|----------------|---------------|-----------|----------------|--------------|
| ITEM | QUANTITY | UNIT | UNIT COST | ITEM COST |
| 18* RCP | 3170 | L.F. | \$25.00 | \$79,250.00 |
| 24" RCP | 3075 | L.F. | \$34.00 | \$104,550.00 |
| 30" RCP | 250 | L.F. | \$40.00 | \$10,000.00 |
| 36* RCP | 2100 | L.F. | \$45.00 | \$94,500.00 |
| 6' CURB INLET | 1 | EA. | \$2,500.00 | \$2,500.00 |
| 10' CURB INLET | 1 | EA. | \$3,000.00 | \$3,000.00 |
| 14' CURB INLET | 24 | EA. | \$3,500.00 | \$84,000.00 |
| 16' CURB INLET | 4 | EA. | \$4,000.00 | \$16,000.00 |
| 18' CURB INLET | 12 | EA. | \$4,500.00 | \$54,000.00 |
| | | | SUBTOTAL | \$447,800.00 |
| | ENGINEE | RING & CO | ONTINGENCY 15% | \$69,409.00 |
| , | | | TOTAL | \$517,209.00 |
| | COST PER AC | RE (188 | 8.5 ACRES) | \$2,743.81 |

NEW FACILITY COST ESTIMATE

(ASSUMES NEW DEVELOPMENT W/ NO EXISTING FACILITIES)

| | | , | | |
|----------------|----------|-----------|-----------------|--------------|
| ITEM | QUANTITY | UNIT | UNIT COST | ITEM COST |
| 18" RCP | 3755 | L.F. | \$25.00 | \$93,875.00 |
| 24" RCP | 3800 | L.F. | \$34.00 | \$129,200.00 |
| 30" RCP | 250 | L.F. | \$40.00 | \$10,000.00 |
| 42" RCP | 2025 | L.F. | \$60.00 | \$121,500.00 |
| 48" RCP | 1650 | L.F. | \$80.70 | \$133,155.00 |
| 4 CURB INLET | 1 | EA. | \$2,000.00 | \$2,000.00 |
| 6' CURB INLET | 11 | EA. | \$2,500.00 | \$27,500.00 |
| 8 CURB INLET | 3 | EA. | \$2,750.00 | \$8,250.00 |
| 10' CURB INLET | 2 | EA. | \$3,000.00 | \$6,000.00 |
| 12 CURB INLET | 3 | EA. | \$3,250.00 | \$9,750.00 |
| 14 CURB INLET | 28 | EA. | \$3,500.00 | \$98,000.00 |
| 16' CURB INLET | 1 | EA. | \$4,000.00 | \$4,000.00 |
| 18' CURB INLET | 10 | EA. | \$4,500.00 | \$45,000.00 |
| | | | Subtotal | \$688,230.00 |
| | ENGINE | ERING & C | CONTINGENCY 15% | \$106,675.65 |
| | | | TOTAL | \$794,905.65 |

COST PER ACRE (188.5 ACRES) \$4,217.01

COTTONWOOD CREEK DRAINAGE BASIN PLANNING STUDY APPENDIX B AUGUST 24, 1992 TABLE 15 INITIAL SYSTEM EXAMPLE LOCATION NO. 2

COTTONWOOD CREEK DBPS - TABLE 15 INITIAL SYSTEM - EXAMPLE LOCATION NO. 2

| UPGRADE TO EXI | STING SYSTE | M COST | ESTIMATE | |
|----------------|-------------|-----------|---------------|--------------|
| ITEM | QUANTITY | UNIT | UNIT COST | ITEM COST |
| 18" RCP | 350 | L.F. | \$25.00 | \$8,750.00 |
| 24" RCP | 2400 | L.F. | \$34.00 | \$81,600.00 |
| 36" RCP | 1500 | L.F. | \$45.00 | \$67,500.00 |
| 42" RCP | 100 | L.F. | \$60.00 | \$6,000.00 |
| 16' CURB INLET | 17 | EA. | \$4,000.00 | \$68,000.00 |
| | | | SUBTOTAL | \$231,850.00 |
| | ENGINEE | RING & CO | NTINGENCY 15% | \$35,936.75 |
| | | | TOTAL | \$267,786.75 |
| | COST PER A | CRE (98 | 3.5 ACRES) | \$2,718.65 |
| | | | | |

NEW FACILITY COST ESTIMATE (ASSUMES NEW DEVELOPMENT W/ NO EXISTING FACILITIES)

| ITEM | QUANTITY | UNIT | UNIT COST | ITEM COST |
|----------------|----------|-----------|---------------|--------------|
| 18" RCP | 350 | L.F. | \$25.00 | \$8,750.00 |
| 24" RCP | 2300 | L.F. | \$34.00 | \$78,200.00 |
| 36" RCP | 1500 | L.F. | \$45.00 | \$67,500.00 |
| 42" RCP | 200 | L.F. | \$60.00 | \$12,000.00 |
| 8 CURB INLET | 4 | EA. | \$2,750.00 | \$11,000.00 |
| 10' CURB INLET | 1 | EA. | \$3,000.00 | \$3,000.00 |
| 12' CURB INLET | 1 | EA. | \$3,250.00 | \$3,250.00 |
| 16' CURB INLET | 18 | EA. | \$4,000.00 | \$72,000.00 |
| | | | SUBTOTAL | \$255,700.00 |
| | ENGINEE | RING & CO | NTINGENCY 15% | \$39,633.50 |

TOTAL \$295,333.50
COST PER ACRE (98.5 ACRES) \$2,998.31

COTTONWOOD CREEK
DRAINAGE BASIN PLANNING STUDY
APPENDIX B
AUGUST 24, 1992
TABLE 16
SUBBASIN HYDROLOGIC DATA
PLATTED AREAS

RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - PLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACRI | ES | | | | | OVERALL | VALUES |
|------------|------------|-------|-----------|---------|----------|---------|---------|--------|--------|-------|-------|--------|---------|--------|
| | HYDROLOGIC | : | COMMER | | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | С |
| A1 | В | | | | | | | | | | 3.0 | | 3.0 | 0.20 |
| | c | | | | | | | | | | | | 0.005 | |
| | D | | | | | | | | | | | | | |
| A2 | В | | | | | | | | | | 23.0 | | 23.0 | 0.20 |
| | C | | | | | | ļ | | İ | | | | 0.036 | |
| | D | | | | | | | | | | | | | |
| A3 | В | | | | | | | | | | 9.6 | | 9.6 | 0.20 |
| | c | | | | | | | | | | | | 0.015 | |
| **** | D | | | | | | | | | | | | | |
| A4 | В | | | | | | | | | | 124.5 | | 124.5 | 0.20 |
| | c | | | | | | | | | | | | 0.195 | |
| | D | | | | | | | | | | | | | |
| A5 | В | | | | | | | | | | 94.0 | | 94.0 | 0.20 |
| | c | | | | ļ | | | | | | | | 0.147 | |
| | D | | | | | | Ì | | | | | | | |
| A6 | В | | | | | | | | | | 67.7 | | 67.7 | 0.20 |
| | c | 1 | | | | | į | | | | | | 0.106 | |
| | D | | | | | | | | | | | | | |
| A 7 | В | | | | | | | | | | 29.4 | | 29.4 | 0.20 |
| | С | | | | | | | | ţ | | | | 0.046 | |
| | D | | | | <u> </u> | | | | | | | | | |
| A8 | В | | | | | | | | | | 122.1 | | 122.1 | 0.20 |
| | С | | | | | | | | | | | | 0.191 | |
| | D | | | | | | | | | | | | | |
| A9 | В | | | | | | | | | | 124.6 | | 124.6 | 0.20 |
| | c | | | | | | | | | | | | 0.195 | |
| | ם | | | ĺ | | } | | 1 | | | ŀ | | | İ |

SHEET 1 OF 19

RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - PLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACR | ES | | | | | OVERALL | VALUES |
|------------|------------|-------|-----------|---------|----------|---------|---------------------------------------|--------|--------|-------|-------|--------|---------|--------|
| | HYDROLOGIC | | COMMER | | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | С |
| A10 | В | | | | | | | | | | 92.4 | | 92.4 | 0.20 |
| | c | | | | <u> </u> | | | | | | | | 0.144 | |
| | D | | | | | | | | | | | | | |
| A11 | В | | | | | | | | | | 26.4 | | 26.4 | 0.20 |
| | С | | | | | | | | | | | | 0.041 | |
| | D | | | | | | | | | | | | ***** | |
| A12 | В | | | | | | | | | 31.0 | | | 31.0 | 0.40 |
| | С | | | | ! ! | 1 | | | | | | | 0.048 | 0.40 |
| | D | | | | | | | | | | | | 0.000 | |
| A13 | В | | | | | | · · · · · · · · · · · · · · · · · · · | | | | 99.2 | | 99.2 | 0.20 |
| | c | | | | | | | | | | | | 0.155 | 0.20 |
| | D | | | | | | | | | | | | 0.133 | |
| B 1 | В | | | | | | | | | 15.4 | 29.4 | | 44.8 | 0.27 |
| | C | | | | | | | | | | | | 0.070 | 0.2, |
| | D | | | | | | | | | | | | | |
| B2 | В | | 0.0 | | 0,0 | | | | | 1.0 | 7 | · | 1.0 | 0.40 |
| | С | ŀ | | | | | | | | | | | 0.002 | 0.40 |
| | D | | | | | | | | | | | | | |
| В3 | В | | | | 0.0 | | 4.4 | | | 0.0 | | | 4.4 | 0.58 |
| | С | 1 | | | | | | | | | | | 0.007 | 0.50 |
| | D | | | | | | | | | | | | | |
| B4 | В | | | | | | 9.6 | | | 0.0 | | | 9.6 | 0.58 |
| | С | ŀ | | | | | 0.0 | | | -, - | | | 0.015 | 0.30 |
| | D | | | | , | | | | | | | | 0.013 | |
| B 5 | В | | 0.0 | | 0.0 | 0.0 | | | | | | | 0.0 | N/A |
| : | С | | | | | 7 7 | - | | | | | | 0.000 | |
| | D | ŀ | | | | | | | | | | | 0.000 | |

SHEET 2 OF 19

£.

RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - PLATTED AREAS

DATE: 18-May-92

| | , · · · · · · · · · · · · · · · | | | | | | | | | | | | | |
|--------|---------------------------------|-------|-----------|---------|--------|---------|--------|--------|--------|-------|-------|--------|---------|--------|
| | | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACR | ES | | | | | OVERALL | VALUES |
| | HYDROLOGIC | | COMMER | | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | С |
| В6 | В | , | 0.0 | | 0.0 | 0.0 | 9.9 | | | | | | 9.9 | 0.58 |
| | С | | | | | 1 | | | | | | İ | 0.015 | |
| | D | | | | | | | | | | | | | |
| В7 | В | | | | 0.0 | 0.0 | 0.0 | | | | 0.0 | 0.0 | 0.0 | N/A |
| | С | | | ľ | 0.0 | 0.0 | 0.0 | | ļ | | | | 0.000 | |
| ···· | D | | | | | | | | | | | | | |
| B8 | В | ļ | 0.0 | | | 0.0 | | | | | | | 0.0 | N/A |
| | c | | | | | | | | | | | i | 0.000 | |
| ****** | D | | | | | | | | | | | ŀ | | |
| В9 | В | | | | | | | | | | | | 21.6 | 0.65 |
| | C | | | ļ | | 0.0 | 21.6 | | | | | | 0.034 | |
| | D | | | | | | | | | | | | | |
| C1 | В | | | | | | 0.0 | | | 38.1 | 0 | | 38.1 | 0.40 |
| | С | | | | | | | | | | | | 0.060 | |
| | D | | | | | | | | | | | | | |
| C2 | В | | | | | | | | | 0.0 | 0.0 | | 0.0 | N/A |
| | c | | | } | | | | | | | | | 0.000 | |
| | D | | | | | | | | | | | İ | | |
| C3 | В | | | | | | 0.0 | | | 0.0 | 2.0 | | 2.0 | 0.20 |
| | C | | | | | | | | | | | | 0.003 | |
| | D | | | | | | | | | | | L | | |
| C4 | В | | | | | | 0.0 | | | 0.0 | 2.0 | 0.0 | 2.0 | 0.20 |
| | C | | | | | | | | } | | | | 0.003 | |
| | ם ֹ | | | ļ | | | | | | | | | | |
| C5 | B | | | | - | | 0.0 | | | 0.0 | 37.2 | | 37.2 | 0.20 |
| | С | | | 1 | | | | | | | | | 0.058 | |
| | D | | | | | | | | | | | | | |

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RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - PLATTED AREAS

DATE: 18-May-92

| DAIE. | 18-May-92 | | | | | | | | | | | | | |
|-------------|------------|-------|-----------|---------|--------|---------|----------|--------|--------|-------|-------|--------|---------|--------|
| | | | AVERAGE L | AND USE | TYPE A | ND AREA | | | | | | | OVERALL | VALUES |
| | HYDROLOGIC | | COMMER | | RESID | RESID | RESID | | RESID | RESID | RESID | school | AREA | |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | С |
| C6 | В | | | | 0.0 | | 0.0 | | | | | 0.0 | 0.0 | N/A |
| | С | | | | | | | | | | | | 0.000 | |
| | D | | | | | | | | | | | | | |
| C7 | В | | | | 0.0 | 0.0 | 0.0 | | | 0.0 | | 0.0 | 0.0 | N/A |
| | С | | | | | | | | | | | | 0.000 | |
| | D | | | | | | | | | | | | | ĺ |
| C8 | В | | 0.0 | | 0.0 | 0.0 | 0.0 | | | 1.0 | | | 1.0 | 0.40 |
| | С | | | | | | 0.0 | | | | | | 0.002 | |
| | D | | | | | | | | | | | | | |
| C9 | В | | | ' | 0.0 | 0.0 | 0.0 | | | | | 0.0 | 0.0 | N/A |
| | С | | | ļ | 0.0 | 1 | | | | | | | 0.000 | |
| | D | | | | | | | | | | | | | |
| C10 | В |] | | Ì | | 0.0 | 0.0 | | | | | 0.0 | 0.0 | N/A |
| | c | | | 1 | | 0.0 | | | | | | | 0.000 | |
| | D | | | | | | | | | | | | | |
| C11 | В | | | | 0.0 | 0.0 | 0.0 | | | | | | 0.0 | N/A |
| | С | | | | 0.0 | 0.0 | 0.0 | | | | | | 0.000 | |
| | D | | | | | | | | | | | | | |
| C12 | В | | | | | 0.0 | 0.0 | | | | | | 0.0 | N/A |
| | С | | | | | 0.0 | | | | | | | 0.000 | 1 |
| | D | | | | | | | | | | | | | ļ |
| C13 | В | | | | | 0.0 | 0.0 | | | 0.0 | | | 0.0 | N/A |
| | С | | |] | 4.6 | | | | | | | | 0.000 | |
| | D | | | | | | <u> </u> | | | | | | | |
| C14 | В | | | | | 0.0 | 0.0 | | | | | | 0.0 | N/A |
| | С | | | | | | 1.5 | | | | | | 0.000 | |
| | D | | | | | | | | | | | | | |

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Ža.

RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - PLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACR | ES | | | | | OVERALL | VALUES |
|-------|------------|-------|---------------------------------------|---------|--------|---------|--------|----------|--------|-------|-------|--------|---------|--------|
| | HYDROLOGIC | | COMMER | | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | С |
| C15 | В | 0.0 | | | | 0.0 | 0.0 | | | | | 0.0 | 0.0 | N/A |
| | С | | | | | | | - | | | | | 0.000 | |
| | D | | | | | | | | | | | | | |
| C16 | В | | | | 0.0 | 0.0 | 0.0 | | | | | | 0.0 | N/A |
| | С | | | | | i | | | | | | | 0.000 | |
| 917 | D | | | | | | | | | | | | | |
| C17 | В | | | | 0.0 | 0.0 | 0.0 | | | | | | 0.0 | N/A |
| | c | | | | | | | i. | ļ | | | | 0.000 | |
| C18 | D B | | | | 0.0 | | | <u> </u> | | | | | | |
| 310 | c | | | | 0.0 | 0.0 | 0.0 | | | | | | 0.0 | N/A |
| | D | | | | | | | | | | | | 0.000 | |
| C19 | В | | | | 0.0 | 0.0 | 0.0 | | ļ | | | | | |
| | С | | | | 1 | 0.0 | 0.0 | | | | | | 0.0 | N/A |
| | D | | : | | | | | | | | | | 0.000 | |
| C20 | В | | | | 0.0 | 0.0 | 0.0 | | | | | | 0.0 | 27./2 |
| | С | | | | 0.0 | 0.0 | 0.0 | | | ; | | | 0.000 | N/A |
| | D | | | | | | | | | | | | 0.000 | |
| D1 | В | | | | | | | | | | | | 0.0 | N/A |
| | С | | | | | 0.0 | 0.0 | | | | | | 0.000 | |
| | D | | | | | | | | | | | | | |
| D2 | В | | | | | | 0.0 | | | | | | 8.8 | 0.69 |
| | С | | 1.3 | | | | 7.5 | | | | | | 0.014 | |
| | D | | | | | | | | | | | | | |
| D3 | В | | 6.8 | | | | | | | | | | 27.1 | 0.90 |
| | C | | 20.3 | | | | | | | | | | 0.042 | |
| | D | | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | |

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RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - PLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACR | ES | | | | | OVERALL | VALUES |
|------------|------------|-------|-----------|---------|--------|---------|--------|--------|--------|-------|-------|-------------|---------|-------------|
| | HYDROLOGIC | | COMMER |] | RESID | RESID | | RESID | RESID | RESID | RESID | SCHOOL | AREA | TABOES |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | _ |
| D4 | В | | 0.0 | 0.0 | | | 0.0 | 1 | | | | , onon | 0.0 | C N/A |
| | С | | | 0.0 | | | 0.0 | ļ | | | | | 0.000 | A/A |
| | D | | | | | | | • | | | | | 0.000 | |
| D 5 | В | | 21.8 | 1.2 | | | | | | | | <u> </u> | 23.0 | 0.90 |
| | c | | | | | | | | | | | | 0.036 | 0.90 |
| | D | | | | | | | | | 1 | | | 0.036 | |
| E1 | Ð | | | | | 0.0 | 0.0 | | | 0.0 | | | 0.0 | 77 / 2 |
| | c | | | | | | | | | | | | 0.000 | N/A |
| | D | | | | | | | | | . 1 | | | 0.000 | |
| E2 | В | | 0.0 | | 0.0 | | 0.0 | | | | | | 0.0 | N/A |
| [| c | | | | | | | | | | | | 0.000 | N/A |
| | D | | | | | | | | | | | | 0.000 | |
| E3 | В | | 0.0 | | 0.0 | 0.0 | 0.0 | | | | | | 0.0 | N/A |
| | c | 1 | | | | | | | | | | | 0.000 | A/A |
| | D | | | | | | | | | | | | 0.000 | |
| E4 | В | 0.0 | 0.0 | | 0.0 | | | | | | | | 0.0 | N/A |
| j | С | 0.0 | | | | | | | ŀ | | | | 0.000 | M/A |
| E5 | D | | | | | | | | | - 1 | | j | | |
| E3 | В | į | 0.0 | | 0.0 | 0.0 | 0.0 | | | | | | 0.0 | N/A |
| | C | | | | | İ | | | | - | | | 0.000 | 4 /A |
| - P. | D | | | | | | | | | | | | | |
| E6 | В | 0.0 | | | | 0.0 | 0.0 | | | | | | 0.0 | W/A |
| | C | |] | | | l | l | | | 1 | - | 1 | 0.000 | -/ A |
| E7 | D | | | | | | | | | ĺ | - 1 | | ,,,,, | |
| E/ | В | 0.0 | 0.0 | | 10.3 | | T | | | | | 13.1 | 23.9 | 0.65 |
| | C | | 0.0 | - | 0.5 | ľ | | | 1 | | l | | 0.037 | 0.03 |
| | D | | | | | | İ | | | 1 | | | | |

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RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - PLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACR | ES | | | | | OVERALL | 3/3 / 1/20 |
|-----------|------------|-------|-----------|---------|--------|---------|--------|-------|-------|-------------|-------|-----------|---------|------------|
| | HYDROLOGIC | | COMMER | | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | VALUES |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | | | 1 AC | 5 AC | /CHUR | AC/SM | С |
| E8 | В | | 0.0 | | 0.0 | 0.0 | 0.0 | | | | | , 5.1.5.1 | 0.0 | N/A |
| | C | | | | | | | | | | | | 0.000 | -/- |
| | D | | | | | | | | | | | | 0.000 | i I |
| E9 | В | | | | 0.0 | 0.0 | 0.0 | | | | * | | 0.0 | N/A |
| | С | | | | | | | | | | | | 0.000 | -, - |
| | D | | | | | | | | | | | | | |
| E10 | В | | | | | 16.6 | 0.0 | | | | | 0.0 | 16.6 | 0.63 |
| | C | | | | | | | | | | | | 0.026 | |
| | D | | | | | | | | | | | | | |
| E11 | В | | 0.0 | 1 | l. | 0.0 | 4.7 | | | | | | 4.7 | 0.58 |
| | C | | | 1 | | | | | | | | | 0.007 | |
| | D | | | | | | | | | | | | | |
| F1 | В | | 0.0 | | 0.0 | 10.3 | | | | | | | 10.3 | 0.63 |
| | С | | | | | | | | | | | | 0.016 | |
| | מ | | | | | | | | | | | | | |
| G1 | В | 0.0 | | 0.8 | | | 17.2 | | | | | 8.4 | 39.0 | 0.63 |
| | C | | | 0.2 | | | 9.3 | | | | | 3.1 | 0.061 | |
| | ם | | | | | | | | | | | | | |
| G2 | В | 0.0 | | | | | | | | | | 53.5 | 53.5 | 0.65 |
| | C | Ì | | | | | | | | | | | 0.084 | |
| G3 | D B | 3.0 | | | | | | | | | | | | |
| 63 | C | 3.0 | | | | | 34.9 | | | | | | 100.1 | 0.63 |
| | מ | | | | | | 57.2 | | | | | 5.0 | 0.156 | |
| G4 | В | | 15 4 | | | | | | | | | | | |
| | c | | 15.4 | | 3.8 | 3.8 | 8.5 | | | ĺ | | | 43.4 | 0.72 |
| | D | | 0.0 | | 0.0 | | 11.9 | | | | | | 0.068 | |
| | | | | | | | | | | | | | | |

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RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - PLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | AND USE | | | IN ACR | ES | | | | | OVERALL | VALUES |
|-------|------------|-------|-----------|---------|--------|--------|----------|--------|--------|------|-------|--------|---------|--------|
| | HYDROLOGIC | | COMMER | | RESID | 1 | | | RESID | | RESID | SCHOOL | AREA | |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | c |
| G5 | В | | | | 3.8 | | 15.0 | | | | | | 18.8 | 0.59 |
| | С | | | | Í | | | - | | | | | 0.029 | |
| | Ď | | | | | } | | | | | | | | |
| G6 | В | | | | 6.5 | 78.5 | | | | | | | 85.0 | 0.63 |
| | c | | | | | | | | | | | | 0.133 | |
| | D | | | | | | | | | | | | 1 | |
| G7 | В | | 2.3 | | 0.0 | 2.3 | | | | | | | 4.6 | 0.76 |
| | c | | | | | | | | | | | | 0.007 | 5.76 |
| | D | | | | | | | | | | | ļ | 0.007 | |
| G8 | В | | 1.1 | | 0.0 | 10.1 | | | | | | | 11.2 | 0.65 |
| | С | | | | | | | | | | | | 0.017 | 0.65 |
| | D | | | | | | | | | | | | 0.017 | |
| H1 | В | | | 72.9 | 35.0 | | | | | | | | 107.9 | 0.82 |
| | c | | | | | | | | | | | | 0.169 | 0.02 |
| | D | | | | | | ; | | | | | ! | 0.103 | |
| H2 | В | | | 0.0 | | | | | | | | | 0.0 | N/A |
| | С | | | | | | | | | | | | 0.000 | M/A |
| | D | | | | | | | | | | | | 0.000 | |
| Н3 | В | | | | 2.3 | 86.1 | | | | | | | 88.4 | 0.63 |
| | С | | | | | | | | | | | | 0.138 | 0.03 |
| | D | | | | | | | | | | | | 3.130 | |
| H4 | В | | | | 0.4 | 62.6 | | | | | | | 63.0 | 0.63 |
| | С | | | | | | | | | | | | 0.098 | 5.53 |
| | D | | | | | | | | | | | | 0.030 | |
| Н5 | В | | 0.0 | 0.0 | | | | | | | | | 0.0 | N/A |
| | c | | | | | | | | | ļ | | | 0.000 | m/A |
| [| D | | | | | | | | | | | | 0.000 | |

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RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - PLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | AND USE | TYPE A | ND AREA | TW ACE | P.C | | | | | T | |
|-------|------------|-------|-----------|---------|--------|---------|-------------|--------|-------------|-------|-------------|----------|---------|--------|
| | HYDROLOGIC | 1 | COMMER | | RESID | RESID | RESID | RESID | RESID | | | <u> </u> | OVERALL | VALUES |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 4 | | | | KESID | RESID | l . | SCHOOL | AREA | |
| Н6 | В | | | 47.8 | -/ | 2/0 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | С |
| | c | | | | | | | | | | | | 47.8 | 0.90 |
| | D | | ! | | 1 | | | | | | | | 0.075 | |
| н7 | В | | 29.9 | | | 49.9 | | | | | | | | |
| | С | | | | | 49.9 | | | | | | | 79.8 | 0.73 |
| | D | | | | | | | | | | | | 0.125 | |
| н8 | В | | 5.8 | | | 68.5 | | | | | | | | |
| | С | | | | ļ | 00.5 | | | | | | | 74.3 | 0.65 |
| | D | | | | | | | | | | | | 0.116 | i |
| Н9 | В | | | | | 23.0 | | | | | | | | |
| | С | | | | | 23.0 | | | | | | 0.0 | 23.0 | 0.63 |
| | D | | | | | | | | | | | | 0.036 | |
| Н10 | В | | 0.0 | | | 0.0 | | | | | | | | |
| - | c | ľ | į | | | | | | | | | 0.0 | 0.0 | N/A |
| | D | 1 | | | | | ļ | | | | | | 0.000 | |
| н11 | В | | 3.5 | | | | | | | | | | | |
| | c | į | | | | | | | ļ | | | | 3.5 | 0.90 |
| | D | | | | | | | | | | | | 0.005 | |
| H12 | В | | 15.0 | | | 28.0 | | | | | *** | | | |
| | С | | | | | | | | | l | | - | 43.0 | 0.72 |
| | D | | | | | | | | ŀ | | | Ì | 0.067 | |
| H13 | В | | 0.0 | | | 0.0 | | | | | | | | |
| ļ | С | | | | | | | | ļ | | 1 | | 0.0 | N/A |
| | D | | | | | | | | İ | | | - | 0.000 | |
| H14 | В | | 3.6 | | | 0.0 | | | | | | | 3.6 | |
| | С | | j | | | | | | | | | | 3.6 | 0.90 |
| | D | | ļ | 1 | | i | l | | | ļ | l | 1 | 0.006 | |

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RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - PLATTED AREAS

DATE: 18-May-92

| | |] | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACRI | es | | | | | OVERALL | VALUES |
|-------|------------|-------|-----------|---------|--------|---------|---------|-------|-------|-------|-------|--------|---------|--------|
| | HYDROLOGIC | | COMMER | | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | 1 |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | | | | 1 AC | 5 AC | /CHUR | AC/SM | С |
| H15 | В | | 2.4 | 1.6 | | | | | | | | / | 4.0 | 0.90 |
| | C | | | | | | | | | | | | 0.006 | 0.30 |
| | D | | | | | | | | | | | | | |
| H16 | В | | 10.3 | | 0.0 | 37.0 | | | | | | | 47.3 | 0.68 |
| | С | | | | | | | | | | | | 0.074 | 0.00 |
| | D | | | | | | | | | | | | | |
| H17 | В |]] | 2.8 | | 5.6 | 10.4 | | | | | | | 18.8 | 0.67 |
| | С | | | | ŀ | | | | | | | | 0.029 | |
| | D | | | | | | | | | | | | | i |
| H18 | В | | | | 0.0 | 6.3 | | : | | | | 0.0 | 6.3 | 0.63 |
| | С | | | | | | | | | | | | 0.010 | |
| | D | | | | | | | | | | | | | |
| H19 | В | 2.7 | 0.0 | | 0.0 | 0.0 | | | | | | 1.2 | 3.9 | 0.58 |
| | С | | | | ľ | | | | | | | | 0.006 | |
| | D | | | | | | | | | | | | | |
| H20 | В | 0.0 | | | | 0.0 | | | | | | | 0.0 | N/A |
| İ | C | | | | | | | | | | | | 0.000 | |
| H21 | D | | | | | | | | | | | | | |
| n21 | В | | 0.0 | | | | | | | | | | 0.0 | N/A |
| | C | | | | | | | | | | | | 0.000 | |
| H22 | D | | | | | | | | | | | | | |
| | В | | 3.3 | 0.0 | | | | | | | | | 3.3 | 0.90 |
| | C | | | _ | | | | | ŀ | | | | 0.005 | |
| H23 | D | | 0.0 | 0.0 | | | | | | | | | | |
| na s | В | 0.0 | | | 2.0 | 0.0 | | | | | | | 2.0 | 0.65 |
| | С | | | | | | | | | | | | 0.003 | |
| 1 | D | | | | | | | | 1 | | | | | |

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RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - PLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACRI | ES | | | | | OVERALL | VALUES |
|-------|------------|-------|-----------|-------------|----------|---------|---------|--------|--------|-------|-------|--------|---------|---------|
| | HYDROLOGIC | | COMMER | | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | 11.502. |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | С |
| 11 | В | 2.1 | | | | 35.2 | 66.0 | | | | | 9.4 | 112.7 | 0.60 |
| | С | | | 0.0 | | | 0.0 | | | | | | 0.176 | |
| | D | | | | | | | | | | | | | |
| 12 | В | | | İ | <u> </u> | 37.0 | 23.1 | | | | | | 60.1 | 0.61 |
| | C | | | | | | | | | | | | 0.094 | |
| | D | | | | | | | | | | | | | |
| 13 | В | | | | | | 85.4 | | | | | | 85.4 | 0.58 |
| | С | | | | Ì | | | | | | | | 0.133 | |
| | D | | | | | | | | | | | | | |
| 14 | В | | | | 2.8 | 2.0 | 106.4 | | | | | | 111.2 | 0.58 |
| | c | | | | | | | | | | | | 0.174 | |
| | D | | | | | | | | | | | | | |
| 15 | В | 3.9 | 7.7 | 5.4 | 16.7 | 73.7 | 42.7 | | | | | 7.1 | 157.2 | 0.64 |
| | c | : | | | | | | | | | | | 0.246 | _ |
| | D | | i | | | | | | | | | | | |
| 16 | В | | | 175.1 | | | | | | | | | 175.1 | 0.90 |
| | C | | | | | | | | | | | | 0.274 | |
| | D | | | | | | | | | | | | | |
| 17 | В | | j | 27.5 | 7.3 | 4.3 | 56.6 | | | | | | 95.7 | 0.68 |
| | C | | | | | | | | | | | | 0.150 | |
| 18 | D | | | | | | | | | | | | | |
| 19 | В | | | 18.5 | 11.5 | | 38.2 | | | | | | 68.2 | 0.68 |
| ; | C | ļ | | | | | | | | 1 | | | 0.107 | |
| | D | | | | | | | | | | | | | |
| 19 | В | • | | | | | 29.4 | | | | | | 29.4 | 0.58 |
| | C | | | | | | | | | | | | 0.046 | |
| l | D | | | | | | | | | j | | | | |

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RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - PLATTED AREAS

DATE: 18-May-92

| | 1 | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACR | ES | | | | | OVERALL | VALUES |
|----------|------------|-------|-----------|---------|--------|---------|--------|-------|-------|-------|-------|--------|---------|--------|
| | HYDROLOGIC | | COMMER | | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | T |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | | | 1 AC | 5 AC | /CHUR | AC/SM | С |
| 110 | В | 31.4 | | | 21.4 | | 10.3 | | | | | 31.7 | 109.7 | 0.61 |
| | С | 14.9 | | | | | | | | | | | 0.171 | 0.01 |
| | D | | | | | | | | | | | | ", | |
| J1 | В | | 1.8 | | 52.2 | | 43.8 | | | | | | 97.8 | 0.62 |
| | С | | | | | | | | | | | | 0.153 | |
| | D | | | | | | | | | | | ! | | |
| J2 | В | | | 47.8 | | | | | | | | | 51.7 | 0.90 |
| | C | İ | | | | | | | | | | | 0.081 | |
| | D | | | 3.9 | | | | | | | | i | - | ĺ |
| J3 | В | | | 45.9 | | | | | | | | | 58.9 | 0.90 |
| | C. | | | | | | | | | | | | 0.092 | |
| | D | | | 13 | | | | | | | | | | |
| K1 | В | | | | 20.7 | | | | | , | | | 23.0 | 0.66 |
| | C | | | | 2.3 | | | | | | | | 0.036 | |
| ~ | D | | | | | · | | | | | | | | |
| K2 | В | | | | 0.0 | 27.0 | | | | | | | 30.0 | 0.64 |
| | C | | | | 0.0 | 3.0 | | | | | | | 0.047 | |
| кз | D | | | | | | | | | | | | | |
| د.، | B C | İ | 2.0 | | 0.0 | 23.4 | | | | | | 11.9 | 41.7 | 0.66 |
| | D | | | | | | | | | | | 4.4 | 0.065 | |
| K4 | В | 0.0 | 2.0 | | | | | | | | | | | |
| | c | 0.0 | 2.0 | | | 0.6 | | | | | | · | 9.8 | 0.79 |
| | D | 0.0 | 1.0 | | | 2.4 | | | | ļ | | | 0.015 | |
| L1 | В | - 0.0 | 0.0 | | | 2.9 | | | | | | | | |
| | c | | 0.0 | | | 59.1 | | | | | | i | 85.8 | 0.66 |
| | D | | | | | | | | | | | | 0.134 | |
| | | L | | | | 26.7 | | | | | | | | |

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£.

RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - PLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACR | ES | | ····· | · | | Cunna | ******** |
|-------|------------|-------|-----------|---------|--------|---------|--------|-------|-------|-------|-------|--------|-----------------|----------|
| | HYDROLOGIC | | COMMER | | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | OVERALL AREA | VALUES |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1 | | 1 AC | 5 AC | /CHUR | AC/SM | С |
| L2 | В | 32.2 | | | 3.0 | 17.5 | | | | | | / CHOR | 52.7 | 0.58 |
| | C | | | | | | | | | | | | 0.082 | 0.56 |
| | D | 0.0 | | | | | | | | | | | 0.002 | |
| M1 | В | | 45.1 | | | 9.9 | 2.6 | - | | | | | 57.6 | 0.84 |
| | c | | | | | | | | | | | | 0.090 | 0.04 |
| | D | | | | | | | | | | | | 0.030 | |
| M2 | В | | 4.6 | | 4.9 | 8.3 | 62.2 | | | | | 15.8 | 95.8 | 0.61 |
| | c | | | | | | | | | | | | 0.150 | 0.01 |
| | D | | | | 0.0 | | | | | | | | 0.100 | |
| м3 | В | | 18.4 | | 29.4 | 26.5 | 17.9 | | | 9.9 | | | 102.1 | 0.65 |
| | c | | | | | | | | | | | | 0.160 | 0.00 |
| | D | | | | | | | | | | | | - 1 | |
| M4 | В | | 3.9 | | | 49.5 | 27.7 | | | 65.4 | | | 146.5 | 0.52 |
| | C | | | | | | | | | | | | 0.229 | |
| | D | | | | | | | | | | | | | |
| M5 | В | | | | 11.3 | 11.4 | 22.6 | | | 7.6 | | | 52.9 | 0.58 |
| | С | | | | | | | | | | | | 0.083 | |
| | D | | | | | | | | | | | | | |
| M6 | В | | | | 36.0 | | 23.6 | | | 5.0 | | | 64.6 | 0.60 |
| | С | | | | | | | | | | | | 0.101 | |
| | D | | | | | | | | | | | | | |
| N1 | В | | 56.2 | | | 25.4 | | | | | | | 81.6 | 0.81 |
| | C | | | | | | | | | | | | 0.128 | |
| N2 | D | | | | | | | | | | | | | |
| N Z | В | | | | 5.0 | | 50.0 | | | | | 3.4 | 58.4 | 0.59 |
| | С | ļ | | | | | | | } | j | | | 0.091 | |
| | D | | | | | | | | | ł | } | | | |

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RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - PLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACR | ES | | | | | OVERALL | VALUES |
|-------|------------|-------|-----------|---------|--------|-------------|--------|--------|--------|-------|-------------|--------|---------|--------|
| | HYDROLOGIC | | COMMER | | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | c |
| и3 | В | 24.9 | | | 38.3 | 15.6 | 62.5 | | | | | 5.7 | 162.4 | 0.60 |
| | C | 15.4 | | | | | | İ | | | | | 0.254 | |
| | D | | | | | | | ļ | | | | | | |
| 01 | В | | | _ | 0.0 | 6.0 | | | | · | | 4.8 | 47.0 | 0.70 |
| | c | | | | 0.0 | 36.2 | | | | | | | 0.073 | |
| | D | | | | | | | | | | | | | |
| 02 | В | | | | | 18.3 | | | | | | | 70.0 | 0.70 |
| | С | | | | | 36.5 | | | | | | | 0.109 | |
| | D | | | | 3.0 | 12.2 | | | | | | | | |
| P1 | В | 2.8 | | | 2.0 | 26.1 | | | | | | | 77.8 | 0.68 |
| | c | } | | | 3.8 | 15.0 | | | | | | | 0.122 | |
| | D | | | | 1.0 | 27.1 | | | | | | | | |
| P2 | В | | | | | | 53.7 | | | | | | 53.7 | 0.58 |
| | C | | | | | | | | | | | | 0.084 | |
| | D | | | | | | | | | | | | | |
| P3 | В | | 6.1 | | 6.1 | 78.9 | 27.1 | | | | | | 127.7 | 0.64 |
| | С | | | | | 8.4 | | | | | | | 0.200 | |
| | D | | | | ļ | 1.1 | | | | | | | | |
| Q1 | В | | 1.2 | | 22.5 | | 32.6 | | | | | 1.9 | 58.2 | 0.61 |
| | C | 1 | | • | | | | | | | | | 0.091 | |
| | D | | | | | | | | | | | | | |
| Ω2 | В | | 11.8 | | 2.3 | 6.7 | 100.7 | | | | | 3.1 | 124.6 | 0.61 |
| | C | | | | | | | | | | | | 0.195 | |
| | D | | , | | | | | | | | | | | |
| Q3 | В | | 9.0 | | | | 31.3 | | | | | 6.7 | 47.0 | 0.65 |
| | C | | | | | | | | | | | | 0.073 | |
| | D | | | | | | | | | | | | | |

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RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - PLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACRI | ES | | | | | OVERALL | VALUES |
|-------|------------|-------|-----------|---------|--------|---------|---------|--------|--------|-------|-------|----------|---------|--------|
| | HYDROLOGIC | | COMMER | | RESID | 1 | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | c |
| Q4 | В | | 22.0 | | 42.5 | | 4.6 | | | | | | 69.1 | 0.72 |
| | С | | | | | İ | | | | | | | 0.108 | i |
| | D | | | | | | | | ŀ | | | | | |
| Q5 | В | | | 1 | | | 98.2 | | | | | | 98.2 | 0.56 |
| | С | | | | | | | | | | | | 0.153 | |
| | D | | | | | | | | | | | | | |
| Q6 | В | | 91.8 | | 6.6 | | 29.3 | | | | | | 134.4 | 0.81 |
| | C | | | | | | | | | | | | 0.210 | ŀ |
| | D | | 3.9 | | 2.8 | | | | | | | <u> </u> | | |
| Ω7 | В | 0.0 | 2.4 | | 27.1 | | 33.4 | | | | | | 106.5 | 0.64 |
| | С | | | | | | | • | | | | | 0.166 | |
| | D | | | | 6.0 | | 37.6 | | | | | | | |
| Ω8 | В | | 13.8 | | 10.3 | | 29.7 | | | | | | 53.8 | 0.67 |
| | С | | | | | | | | | | | | 0.084 | |
| | D | | | | | | | | | | | | i | |
| R1 | В | | 34.4 | 54.5 | | | 25.7 | | | | | | 114.6 | 0.83 |
| | С | | | | | | | | | | | | 0.179 | |
| | D | | | | | | | | | | | | | |
| R2 | В | 4.1 | | | | 37.0 | 22.0 | | | | | 16.5 | 79.6 | 0.61 |
| | С | | | | | | | | | | | | 0.124 | |
| | D | | | | | | | | | | | | | |
| R3 | В | | 14.0 | 20.8 | 12.6 | | | | | | | | 47.4 | 0.83 |
| | C | | | | | | | | | | | | 0.074 | |
| | D | | | | | | | | l | | | | | |
| R4 | В | 10.3 | 58.5 | 34.4 | | | | | | | | | 103.2 | 0.87 |
| | С | | | | | | | | : | | | | 0.161 | |
| | D | | | | 1 | | | | | | | | | |

RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - PLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACR | ES | | | | | OVERALL | VALUES |
|-----------|------------|-------|-----------|---------|--------|---------|--------|--------|--------|-------|-------|---------------------------------------|---------|--------|
| | HYDROLOGIC | | COMMER | | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | - 7000 |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | | /CHUR | AC/SM | С |
| R5 | В | | 117.5 | | | | | | | | | / CHOR | 117.5 | 0.90 |
| | C | | | | | | | | | | | | 0.184 | 0.90 |
| | D | | | | | ļ | | | | | | | 0.184 | |
| R6 | В | 4.8 | 6.6 | | 38.3 | 28.0 | | | | | | 2.3 | 111.9 | 0.66 |
| | C | 15.7 | | | 16.2 | | | | | | | | 0.175 | 4.66 |
| | D | ļļ | | | | | | | | | | ĺ | 0.173 | |
| R7 | В | | 61.3 | | | 5.0 | 35.6 | | | | | 0.6 | 102.5 | 0.77 |
| | С | | | | | | | | | | | | 0.160 | 0.77 |
| | D | | | | | | | | | | | | 0.200 | |
| S1 | В | | 0.0 | | 0.0 | 20.3 | 37.4 | | | | | | 57.7 | 0.59 |
| | c | | | | | | | | | | | | 0.090 | 0.35 |
| | D | | | | | | | | | İ | | | 0.030 | |
| S2 | В | | 18.8 | | 35.8 | | 31.2 | | | | | · · · · · · · · · · · · · · · · · · · | 85.8 | 0.68 |
| | c | | | | | | | | | İ | | | 0.134 | 4.00 |
| | D | | | | | | | | | | | | | |
| 83 | В | | 11.7 | | 37.6 | | 67.5 | | | | | | 116.8 | 0.63 |
| 1 | C | | | | | | | | | | | | 0.183 | |
| T1A | D | | | | · | | | | | | | | | |
| 117 | В | 1 | 16.3 | | 17.2 | | 23.4 | | | | | - | 56.9 | 0.69 |
| I | c | 1 | | | | | | | | 1 | | | 0.089 | |
| T1B | D | | | | | | | | | | | | | |
| 115 | В | ł | 11.5 | | | | 69.9 | | | | | | 81.4 | 0.62 |
| | c | } | | | | Ì | | | |] | | | 0.127 | |
| Т2 | D | | | | | | | | | | | | | |
| TZ | В | | 5.7 | . 1 | 1.4 | 13.7 | | | | 74.5 | | 6.4 | 101.7 | 0.48 |
| | c | | | | 1 | ·. | | 1 | | | | | 0.159 | |
| | D | | | | | l |] | | | - | | | | |

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RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - PLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | AND USE | TYPE A | D AREA | IN ACRI | ES | | | | | OVERALL | VALUES |
|-------|------------|-------|-----------|----------|----------|--------|---------|--------|--------|-------|-------|--------|---------|--------|
| | HYDROLOGIC | | COMMER | | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | C |
| т3 | В | | | | | 54.1 | | | | 20.5 | | | 74.6 | 0.56 |
| | С | | | | | | | | | | | | 0.117 | |
| | Ď | | | | | | | i | 1 | | | | | |
| T4A | В | | 8.1 | | | 25.0 | - | | | 10.5 | | | 60.7 | 0.64 |
| | c | | | | | 14.0 | | | | 3.1 | | | 0.095 | |
| | D | | | | | | | | | | | | | |
| T4B | В | | 26.2 | | | 5.2 | | | | 1.4 | | | 48.0 | 0.73 |
| | c | | | | ŀ | | | | ŀ | 15.2 | | | 0.075 | |
| | D | | | | | | | | | | | | : | i |
| U4A | В | | 12.4 | | | 8.1 | 16.9 | | | 16.0 | | | 53.4 | 0.61 |
| | c | | | | | | | | | | | | 0.083 | |
| | D | | | | | | | | | | | | | |
| U4B | В | | 18.7 | | | 10.0 | | | | 64.4 | | | 100.0 | 0.52 |
| | С | | | | | | |] | | 6.9 | | | 0.156 | |
| | D | | | | | | | | | | | | | |
| U1 | В | | 11.5 | <u> </u> | 5.3 | | 62.7 | | | | | 4.2 | 86.9 | 0.63 |
| | С | | | | 3.2 | | | 1 | | | | ļ | 0.136 | |
| | D | | | | <u> </u> | | | | | | | | | |
| U2 | В | | 13.5 | | 2.5 | | 68.2 | | | | | | 84.2 | 0.63 |
| | С | | | | | | | | 1 | | | | 0.132 | |
| | D | | | | | | | | | | | | | |
| ช3 | В | | 43.7 | | | 17.6 | 4.8 | | | | | | 66.1 | 0.80 |
| | C | | | | | | | | | | | | 0.103 | |
| | D | | | | | | | | | | | | | |
| V1 | В | | 0.0 | | 16.5 | | 51.6 | | | | | | 135.6 | 0.64 |
| | c | | 7.6 | _ | | | | | | | 1 | | 0.212 | |
| | D | | | L | 2.4 | | 57.5 | | | | } | | | |

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RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - PLATTED AREAS

DATE: 18-May-92

| | | | | | | | | | | | | | OVERALL | VALUES |
|-------|------------|-------|----------|--------|--------|--------|--------|--------|--------|-------|-------|--------|---------|--------|
| | HYDROLOGIC | | COMMER | | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | С |
| V2 | В | | 0.0 | | 0.0 | | 0.0 | | | | | | 13.1 | 0.90 |
| | c | | 13.1 | | | | | | | | | | 0.020 | |
| | D | | | | | ĺ | | | | | | | | |
| W1 | В | | 43.9 | 12.7 | | | 68.9 | | | | | | 134.0 | 0.73 |
| | c | | | | | | | | | | | | 0.209 | |
| | D | | | 8.5 | | | | | | | | | | |
| W2 | В | | | 74.8 | | | | | | | | | 79.7 | 0.90 |
| | С | | | ŀ | | | | | | | | | 0.125 | |
| | D | | | 4.9 | | | | | | | | | | |
| W3 | В | | 25.5 | 6.2 | | | | | | | | | 67.3 | 0.90 |
| | c | | 34.7 | 0.5 | | | | | | | | | 0.105 | |
| | D | | | 0.4 | | | | | | | | | | |
| Xla | В | 29.5 | 1.1 | | | | | | | | | | 30.6 | 0.56 |
| | С | | | | | | | | | | | | 0.048 | |
| | ם | | | | | | | | | | | | | |
| X1B | B | 69.7 | 0.6 | | | | | | | | | | 79.7 | 0.57 |
| | С | | | | | | | | | | | | 0.125 | |
| | D | 4.8 | 2.3 | | | | : | | 2.3 | | | | | |
| Х2 | В | 2.2 | 45.8 | 43.3 | | | | | | | | | 91.3 | 0.89 |
| | С | | | | | | | | | | | | 0.143 | 0.03 |
| | ם | | | | | | | | | | | | | |
| ж3 | В | 2 | 27.2 | 48.3 | | | 16.2 | | | | | | 118.8 | 0.82 |
| | С | | | | | | | | | | | | 0.186 | 2.35 |
| | D | 0.8 | | 15.1 | | | 0.6 | 4.2 | 4.4 | | | | | |
| X4 | В | | 20.9 | | | | 16.1 | 24.7 | 3.4 | | | | 117.3 | 0.64 |
| | С | | * = | | | | | | | | | | 0.183 | |
| | D | 0.4 | 0.2 | | | | 38.2 | 11.8 | 1.6 | | | | | |

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RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - PLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | | OVERALL | VALUES | | | | | | | | |
|------------|------------|-------|-----------|--------|---------|--------|--------|--------|--------|-------|-------|--------|-------|------|
| | HYDROLOGIC | | COMMER | | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | С |
| X 5 | В | | 18.6 | | | | 11.7 | 3.2 | | | | | 78.9 | 0.68 |
| | C | | | | | | | | | | | | 0.123 | |
| | D | | 0.6 | | | | 35.2 | 9.6 | | | | | | |
| ¥1 | В | 5.0 | | 1.1 | | | 57.4 | | | | | | 63.5 | 0.58 |
| | c | | | | | | | | | | | 1 | 0.099 | |
| | D | | | | | | | | | | | | | |
| Y2 | В | | 67.3 | | | | 0.8 | | | | | | 81.7 | 0.89 |
| | С | | 0.3 | | | | | | | | | | 0.128 | |
| | D | | 6.7 | 3.4 | | | 3.2 | | | | | |] | |
| TOTAL | | 282.6 | 1258 | 790.5 | 658 | 1465.3 | 2283.6 | 53.5 | 11.7 | 386.9 | 886.5 | 220.2 | 8,297 | 0.63 |

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COTTONWOOD CREEK
DRAINAGE BASIN PLANNING STUDY
APPENDIX B
AUGUST 24, 1992
TABLE 17
SUBBASIN HYDROLOGIC DATA
UNPLATTED AREAS

RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - UNPLATTED AREAS

DATE: 18-May-92

| | I | AVERAGE LAND USE TYPE AND AREA IN ACRES | | | | | | | | | | | | VALUES |
|------------|------------|---|-------------|--------|-------------|-------------|----------|--|--------------|-------|-------|----------|-------|--------|
| | HYDROLOGIC | | COMMER | T | | | RESID | | RESTD | RESID | RESTD | SCHOOL | AREA | VALUES |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1 | 1 | I . | | 1 | | i . | | AC/SM | С |
| λ1 | В | | | | | | | | | | 117.6 | 7 011011 | 117.6 | 0.20 |
| | С | | | | | | · | | | | | | 0.184 | 0.20 |
| | D | | | | | | | | | | } | | 0.104 | |
| A2 | В | | | | | | | | <u> </u> | | 111.2 | | 111.2 | 0.20 |
| | С | | | | | | | | | | | | 0.174 | 0.20 |
| | D | | | | | i | | |] | | | | 0.17 | |
| A3 | В | | | l | | | | | | | 94.3 | | 94.3 | 0.20 |
| | С | | | | | | | | | | 34.3 | | 0.147 | 0.20 |
| | Œ | | | | : | | | | | | | | 0.147 | |
| A4 | В | | | | | | | | | | 37.9 | <u> </u> | 37.9 | 0.20 |
| | c | | | | | | | | | | 3,5 | | 0.059 | 0.20 |
| | σ | | | | | | | | | | | | 0.039 | |
| A 5 | В | | | | | | | | | | 40.2 | <u> </u> | 40.2 | 0.20 |
| | С | | | | | | | | | | 10.2 | | 0.063 | 0.20 |
| | D | | | | | | | | | | | | 0.003 | |
| A6 | В | | | | | | † | | | | 22.3 | | 22.3 | 0.20 |
| | С | | | | | | | | | | | | 0.035 | 0.20 |
| | D | | | | | | | | | | | | 0.055 | |
| A7 | В | | | | | | | | | | 58.0 | | 58.0 | 0.20 |
| | С | | | | | | | | | | | | 0.091 | 0.20 |
| | D | | | | | | | | | | 1 | | 0.052 | |
| A8 | В | | | | | | | | † | | 31.2 | <u> </u> | 31.2 | 0.20 |
| | С | | | | | | | | | | | | 0.049 | 0 |
| | ם | | | | | | | | | | | | | |
| A9 | В | | | | | | | | | | 1.4 | † | 1.4 | 0.20 |
| | c | | | | | | | | | | | | 0.002 | |
| | D | | | | | | | | | | | | | |

SHEET 1 OF 19

RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - UNPLATTED AREAS

DATE: 18-May-92

| | | AVERAGE LAND USE TYPE AND AREA IN ACRES | | | | | | | | | | | | |
|-------|------------|---|------|--------|-------|--|-------------|----------|--------|-------|------|--------------|---------|--------|
| | HYDROLOGIC | | COMM | ER | RESID | | | | RESID | RESID | I | 1 | OVERALL | VALUES |
| BASIN | SOIL TYPE | PARKS | | INDUST | 1 | | 1 | | | Į. | 1 | SCHOOL | AREA | |
| A10 | В | | | | 7 | 1/4 40 | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | С |
| | С | | | | | | | | | | 15.8 | Ì | 15.8 | 0.20 |
| | ם | | | | | | | | | | | 1 | 0.025 | 1 |
| A11 | В | | | | | | | | | | 49.7 | | 40.5 | |
| | С | | | | | | | | | | 49.7 | | 49.7 | 0.20 |
| | D | | | | | | |] | | | | i | 0.078 | |
| A12 | В | | | | | | | <u> </u> | | 45.2 | | | 45.2 | 0.40 |
| | С | | | | | | | | | | | | 0.071 | 0.40 |
| | D | | | | L | | | | | | | | 0.071 | |
| A13 | В | | | | | | | | | | 3.7 | | 3.7 | 0.20 |
| | С | 1 | | | | | | i | | | | | 0.006 | 0.20 |
| | D | | | _ | | | | | | | | | 0.000 | |
| B1 | . В | | | | | | | | | 77.8 | 0 | | 77.8 | 0.40 |
| | C | | | | | | | | | | | | 0.122 | |
| В2 | D | | | | | | | | | | | | | |
| 52 | B C | | 22. | 5 | 8 | | | | | 37.1 | | | 67.6 | 0.60 |
| | ם | į | | | | | | | | I | | | 0.106 | |
| В3 | В | | | | 12.5 | | | | | | | | | |
| | c | | | | 13.5 | | 55.3 | | | 20.0 | | | 88.8 | 0.55 |
| | D | | | | | | | | | | | | 0.139 | |
| B4 | В | | | - | | | 35.6 | | | | | | | ····· |
| | c | | | | | | 35.6 6.6 | | | 14.8 | | | 57.0 | 0.54 |
| [| Д | | | | | | 0.0 | | | | | | 0.089 | |
| В5 | В | | 21. | 8 | 12.7 | 33.7 | | | | | | | | |
| | С | | , | | · | 33.7 | | | ł | ŀ | į | | 68.2 | 0.72 |
| | D | - 1 | | | | | i | | | | | | 0.107 | |

SHEET 2 OF 19

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RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - UNPLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACRI | ES | | | | | OVERALL | VALUES |
|-------|------------|--|-----------|----------|--------------|----------|----------|----------|--------|----------|----------|----------|--------------|----------|
| | HYDROLOGIC | | COMMER | | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | С |
| В6 | В | | 11.5 | | 24.5 | 46.3 | 25.0 | | | | | | 107.3 | 0.65 |
| | С | | | | | | | | | | | | 0.168 | |
| | D | | | | | | | | | | | | | |
| В7 | В | | | | 13.5 | 104.3 | 21.6 | | | | 6.4 | 6.4 | 190.1 | 0.63 |
| | c | | | | 5.6 | 28.6 | 3.7 | | ł | | | | 0.297 | |
| | D | | | | | | | | | | | l | | |
| B8 | В | | 39.4 | | | 62.4 | | | | | | | 101.8 | 0.73 |
| | c | | | |] | | | | | | | | 0.159 | |
| | D | | | | | | | | | | | | | |
| В9 | В | | | | | | | | | | | | 86.4 | 0.71 |
| | C | | | | | 64.8 | 21.6 | 1 | | | | | 0.135 | |
| | D | | | | | | | | | | | | | |
| C1 | В | | | | | | 15.6 | | } | 33.7 | 17.9 | | 67.2 | 0.39 |
| | C | | | | | 1 | <u> </u> | 1 | | | | | 0.105 | |
| | D | | | | <u> </u> | | | | | | | ļ | | |
| C2 | В | | | | | | | | ĺ | 12.1 | 86.2 | | 98.3 | 0.22 |
| | c | | | | | | | | | | ļ | | 0.154 | ŀ |
| | D | ļ | | | | ļ | | ļ | | | | | | |
| C3 | В | | | | | | 27.1 | | | 49.0 | 25.5 | | 101.6 | 0.40 |
| | С | ļ | | 1 | | ļ | | | | | | | 0.159 | |
| | D | | | | | | | | | | | <u></u> | ļ | ļ |
| C4 | В | | | | | | 53.2 | | | 68.8 | 13.2 | 5.9 | 141.1 | 0.46 |
| | C | | | | | | | | | | | | 0.220 | |
| | D | | | } | ļ | | | <u> </u> | | | ļ | | | <u> </u> |
| C5 | ļ | | | | | | 54.9 | | | 45.7 | 7.8 | | 108.4 | 0.47 |
| | C | | | | | | | | | | | | 0.169 | |
| | D | <u> </u> | | 1 | <u> </u> | <u> </u> | | | | <u> </u> | <u> </u> | <u> </u> | 1 | |

SHEET 3 OF 19

RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - UNPLATTED AREAS

DATE: 18-May-92

| D.111 D. | 16-May-92 | | AVERAGE | | | | | | | | | | | |
|----------|------------|---------------|-----------|----------|-------|-------------|------|-------------|-------------|-------------|-------|--------|---------|-------------|
| ļ | HYDROLOGIC | | AVERAGE L | AND USE | | | | | | | · | · | OVERALL | VALUES |
| BASIN | SOIL TYPE | PARKS | | | RESID | RESID | | RESID | RESID | RESID | RESID | SCHOOL | AREA | |
| C6 | В | FARRS | OR BUSIN | INDUST | | 1/6 AC | | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | С |
| " | c | | | İ | 38.3 |] | 27.2 | | | | | 2.8 | 68.3 | 0.62 |
| i | D | | | | | | | | | | | | 0.107 | [|
| C7 | В | | | | | | ļ | | | | | | | |
| | C | | | | 15.6 | 5.5 | 22.0 | | | 0.5 | | 56.0 | 99.6 | 0.63 |
| | D |] | | | | | | | | | · | | 0.156 | |
| C8 | В | | 21.3 | | 21.0 | | | | | | | | | |
| | c | | 21.3 | | 21.8 | 9.0 | 39.0 | | | 12.5 | | | 108.2 | 0.64 |
| | D | ŀ | | | | | 4.6 | | | | | | 0.169 | |
| C9 | В | | | | 25.5 | | | | | | | | | |
| | c | | | | 4.0 | 11.4 | 70.0 | | | | | 21.1 | 132.0 | 0.61 |
| | ם | | | | 4.0 | | | | | | | | 0.206 | • |
| C10 | В | | | | | 10.6 | 35.0 | | | | | | | |
| | c | | | | | 18.6 5.7 | 37.0 | | | | | 6.4 | 67.7 | 0.61 |
| | D | | | | | 3.1 | | | | | | | 0.106 | |
| C11 | В | | | | 2.9 | 11.3 | 20.7 | | | | | | | |
| | С | | | | 7.3 | 27.2 | 10.3 | | | | | | 79.7 | 0.66 |
| | D | | | | | 27.2 | 10.3 | | | | | | 0.125 | |
| C12 | В | | - | | | 50.7 | 3.7 | | | | | | | |
| ļ | c | | | | | 17.2 | 3.7 | | | | | | 71.6 | 0.65 |
| | D | į | | | | 17.2 | | | | | | | 0.112 | |
| C13 | В | | | | | 5.3 | 15.2 | - | | | | | | |
|] | С | - 1 | | | | 3.3 | 13.2 | | | 59.4 | | | 79.9 | 0.45 |
| | D | | | | | | | | İ | | | | 0.125 | |
| C14 | В | | | | | 28.5 | 38.2 | | | | | | | |
| | c | | | | • | -3.3 | 30.2 | | İ | | | | 66.7 | 0.60 |
| | α | 1 | | | | . | | | l | | | | 0.104 | |
| | | | | <u> </u> | 1 | | | I | | | | | | |

SHEET 4 OF 19

RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - UNPLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACR | ES | | | | | OVERALL | VALUES |
|-------|------------|-------|-----------|---------|--------|---------|--------|--------|----------|-------|-------|--------|---------|--------|
| | HYDROLOGIC | | COMMER | | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | c |
| C15 | В | 4.7 | | | - | 29.9 | 7.4 | | | | | 12.6 | 54.6 | 0.62 |
| | C | | | | | | ŀ | | | | | | 0.085 | |
| | D | | | | | | | | | | | | | |
| C16 | B | | | : | 10.6 | 28.1 | 51.8 | | | | | | 90.5 | 0.60 |
| | С | | | ļ | | | | | | | | | 0.141 | |
| | D | | | | | | | | | | | | | |
| C17 | В | | | ! | 12.1 | 24.8 | 19.5 | | | | | | 56.4 | 0.61 |
| | С | | | | | | | | | | | | 0.088 | |
| | D | | | | | | | | | | | | | |
| C18 | В | | | | 1.6 | 106.5 | 20.4 | | | | | | 128.5 | 0.62 |
| | С | | | | | | | |] | | | | 0.201 | |
| | D | | | | | | | | | | | | | |
| C19 | В | | | | 6.2 | 58.7 | 7.0 | | | | | | 71.9 | 0.62 |
| | C | | | | | | | | | | | | 0.112 | |
| | D | | | | | | | | <u> </u> | | | | | |
| C20 | В | | | | 16.6 | 14.8 | 23.0 | | | | | | 72.5 | 0.63 |
| | C - | | | | 2.9 | 4.2 | 11.0 | | | | | | 0.113 | |
| | D | | | | | | | | | | | | | |
| D1 | В | | | | | | | | | | | | 105.7 | 0.68 |
| | C | | | | | 44.2 | 61.5 | | | | | | 0.165 | |
| D2 | D | | | | | ļ | | | | | | | | |
| " | В | | . | | | | 6.9 | | | | | | 118.3 | 0.70 |
| | C | | 23.5 | | | | 87.9 | | | | | | 0.185 | |
| D3 | <u>D</u> | | | | | | | | | | | | | |
| "3 | В | | 33.4 | | | | | | | | | | 54.0 | 0.90 |
| 1 | G | | 20.6 | | | | | | | | | | 0.084 | |
| L | D | | | | L | | | | | | | | | |

SHEET 5 OF 19

RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - UNPLATTED AREAS

DATE: 18-May-92

| | 18-May-92 | <u> </u> | | | | | | | | | | | | |
|-------|------------|----------|-------------|---------|--------|--------|--------|-------------|--------|-------|-------|--------|---------|-------|
| | WADDOL OFF | | AVERAGE L | AND USE | | | | ES | | | | | OVERALL | VALUE |
| BASIN | HYDROLOGIC | | COMMER | | RESID | | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | |
| | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | c |
| D4 | В | | 28.5 | 19.3 | | İ | 15.5 | | | | | | 75.2 | 0.81 |
| | C | | | 5 | 1 | | 6.9 |] | | | | | 0.118 | |
| | D | | | | | | | | | | | | | |
| D5 | В | | 55.2 | 3.5 | | | | | | | | | 58.7 | 0.90 |
| | С | | | | | | | | | | | | 0.092 |] |
| | D | ļļ | | | | | | | | | | | ĺ | |
| B1 | В | | | | | 18.6 | 24.1 | | | 16.8 | | | 59.5 | 0.54 |
| | C | | | | | | | | | | | | 0.093 | • |
| | D | | | | | | | | | | | | | |
| E2 | В | | 43.6 | | 9.5 | | 4.6 | | | | | | 57.7 | 0.83 |
| | C | | : | | | | | | | | | | 0.090 | |
| E3 | D | | | | | | | | | | | | | |
| ca | В | | 43.8 | | 16.5 | 27.7 | 5.7 | | | | | | 93.7 | 0.75 |
| | c | | | | | | | | | | | | 0.146 | |
| E4 | D | | | | | | | | | | | | | |
| | В | 33.4 | 34.7 | | 18.8 | | | | | | | | 98.6 | 0.70 |
| | C | 11.7 | | | | | | | | İ | | | 0.154 | |
| E5 | D | | | | | | | | | | | | | |
| 64 | В | l | 27.0 | | 34.4 | 3.7 | 16.3 | | | | | | 81.4 | 0.72 |
| ł | C | | | | ļ | | | | į | | | | 0.127 | |
| 76 | D | | | | | | | | | ĺ | | | | |
| E6 | В | 3.0 | | | | 13.9 | 11.9 | | | | | | 28.8 | 0.60 |
| [| С | | | | | | | | | | | | 0.045 | |
| | D | | | | | | | | | | | | | |
| E7 | В | 10.6 | 6.7 | | 6.4 | | | | | | | 5.7 | 51.3 | 0.71 |
| | C | | 3.4 | | 18.5 | | , | | | 1 | | - | 0.080 | **** |
| | D | | | | | | | | İ | | | | | |

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4.

RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - UNPLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACR | ES | | | | | OVERALL | VALUES |
|-----------|------------|---------|-----------|---------|--------|----------|----------|-------|-------|-------|-------|--------|---------|--------|
| | HYDROLOGIC | | COMMER | | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | T |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | | | | | | | /CHUR | AC/SM | С |
| E8 | В | | 32.6 | | 20.1 | 4.1 | | | | | | | 79.6 | 0.73 |
| | C | | | | | | | | | | | 1 | 0.124 | |
| | D | | | | | | ļ | | | | | | | |
| E9 | В | | | | 13.7 | 10.0 | 43.5 | | | | | | 67.2 | 0.60 |
| | C | | | | | | | | | | | | 0.105 | |
| | D | | | | | | <u> </u> | | | | | | | |
| E10 | В | 1 | | | | 12.2 | 14.8 | | | | | 16.3 | 43.3 | 0.62 |
| | c | | | | | | | } | | | | | 0.068 | |
| | D | | | | | <u> </u> | | | | | | | | |
| E11 | В | | 2.5 | | | 7.7 | 48.9 | | | | **** | | 59.1 | 0.60 |
| | c | | | | | | | | | | | | 0.092 | |
| | D | | * | | | | | | | | | | | |
| F1 | В | | 18.4 | | 9.8 | 49.2 | | | | | | | 77.4 | 0.69 |
| | С | | | - | | | | | | | | | 0.121 | |
| | D | | | | | | | | | | | | | |
| G1 | В | 15.0 | | 21.6 | | | 4.4 | | | | | 0 | 76.1 | 0.80 |
| | С | | | 32.7 | | | 2.4 | | | | | 0 | 0.119 | |
| | D | | | | | | | | | | | | | |
| G2 | В | 14.1 | | | | | | | | | | 1.1 | 15.2 | 0.56 |
| | C | | | | | | | | | | | | 0.024 | |
| | D | | | | | | | | | | | | | |
| G3 | В | 0.0 | | | | | 11.8 | | | | | | 16.8 | 0.60 |
| | C | | | | | | 5 | | | | | 0.0 | 0.026 | |
| | D | | | | | | | | | | | | | |
| G4 | В | | 5.3 | | 15.2 | 0 | 0 | | | | | | 41.3 | 0.80 |
| | C | | 17.4 | | 3.4 | | 0 | | | | | | 0.065 | |
| | D | <u></u> | | | | | | | | | | | | |

SHEET 7 OF 19

RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - UNPLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACR | ES | | | | | OVERALL | VALUES |
|------------|------------|----------|-------------|---------|--------|---------|--------|--------|-------|-------|-------|-------------|---------|--------|
| | HYDROLOGIC | | COMMER | | RESID | RESID | | | RESID | RESID | RESID | SCHOOL | AREA | TABOBS |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | | 1 AC | 5 AC | /CHUR | į. | С |
| G 5 | В | | | | 6.3 | 17.1 | 33.3 | | | | | | 56.7 | 0.60 |
| | С | | | | Ì | | Ì | | | | : | | 0.089 | |
| ··· | D | ļ | | | | | | | | | | | | |
| G6 | В | | | | 1.2 | 2.8 | | | | | | | 4.0 | 0.63 |
| | C | | | | | | | | | | | | 0.006 | |
| | D | | | | | | | | | | | | | |
| G7 | В | | 11.5 | _ | 2.6 | 90.9 | | | | | | | 105.0 | 0.66 |
| | C | ļ į | | | | | | | | | | | 0.164 | |
| G8 | D | | | | | | | | | | | | | |
| GB | В | | 5.8 | | 14.9 | 20.2 | | | | | | | 40.9 | 0.67 |
| | C | | | | | | | | | | | | 0.064 | |
| Н1 | D | | | | | | · | | | | | | | |
| A. | В | | | 0.0 | 0.0 | | | | | | | | 0.0 | N/A |
| | С | | | | | | | | | İ | | | 0.000 | |
| Н2 | В | | | 67.7 | | | | | | | | | | |
| | c | | | 67.7 | | | | | | | | | 67.7 | 0.90 |
| | ם | | | | | | | | | Í | | | 0.106 | |
| Н3 | В | | | | 0.9 | | | | | | | | | |
| | c | | | | 0.9 | 0.9 | | | | İ | | | 1.8 | 0.64 |
| | D | | | | | | | | | | | | 0.003 | |
| H4 | В | | | | 0.0 | 19.1 | - | | | | | | | |
| | c | | | | 3.0 | 73.7 | | | | | | | 19.1 | 0.63 |
| | מ | | | | | | | | | | | | 0.030 | |
| H5 | В | | 86.3 | 145.6 | | | | | | | | | | |
| | C | | | | | * | | | | | | | 231.9 | 0.90 |
| | D | | | | * | | | | | | | | 0.362 | |

SHEET 8 OF 19

ž.

SHEET 9 OF 19

RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - UNPLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACR | ES | | | | | OVERALL | VALUES |
|-------------|------------|-------|-----------|---------|----------|---------|--------|--------|--------|-------|-------|----------|---------|--------|
| | HYDROLOGIC | | COMMER | _ | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | С |
| Н6 | В | | | 89.0 | | | | | | | | | 89.0 | 0.90 |
| | С | | | | | | | | | | | | 0.139 | |
| ··· | D | | | | | |] | | | | | | | |
| н7 | В | | 10.1 | | | 0.0 | | | | | | | 10.1 | 0.90 |
| | C | | | | | | | | | | | | 0.016 | |
| | D | | | | | | | | | | | <u> </u> | | 1 |
| н8 | В | | 0.0 | | | 5.7 | | | | | | | 5.7 | 0.63 |
| | c | | · · | | | | | | | | | | 0.009 | |
| | D | | | | <u> </u> | | | | | | | ļ | | |
| н9 | В | į | | | | 81.7 | | | | | | 5.7 | 87.4 | 0.63 |
| | С | | | | | | | | | | | | 0.137 | |
| | D | | | | | | | | İ | | | 1 | | ļ |
| H10 | В | | 9.4 | | | 14.7 | | | | | | 16.7 | 40.8 | 0.70 |
| | c | | | | | | | | | | | | 0.064 | |
| | D | | | | | | | | | | | | | |
| H11 | В | | 88.7 | | | i | | | | | | | 88.7 | 0.90 |
| | С | | | | | | | | • | | | ļ | 0.139 | İ |
| | D | | | | | | | | | | | | | 1 |
| H12 | В | | 32.6 | | | 28.4 | | | | | | | 61.0 | 0.77 |
| | С | | | | | | | | | | | | 0.095 | |
| | D | | | | | | | | | | | | | |
| н13 | В | | 46.5 | | | 35.2 | | | | | | | 81.7 | 0.78 |
| | С |] | | | | | | | | | | | 0.128 | |
| | D | | | | | | | | | | | | | |
| H14 | В | | 62.3 | | | 7.7 | | | | | | | 70.0 | 0.87 |
| | c | | | | | | | | | | | | 0.109 | |
| | D | | | | L | | | | | | | | | |

RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - UNPLATTED AREAS

DATE: 18-May-92

| | I . | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACR | ES | | | | | OVERALL | VALUES |
|-------|------------|-------|-----------|---------|--------|---------|--------|---------------------------------------|--------|-------|-------|--------|---------|----------|
| | HYDROLOGIC | | COMMER | İ | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | c |
| H15 | В | | 29.4 | 20.0 | | | | | | | | | 49.4 | 0.90 |
| | c | | | | | - | | | | | | | 0.077 | |
| | D | | | | | | | | | | | | | |
| H16 | В | | 7.2 | | 10.3 | 3.2 | | | | | | | 20.7 | 0.73 |
| | С | } | | | | | | | | | | | 0.032 | |
| | D | | | | | | | | | | - | | | |
| H17 | В | | 0.0 | | 3.7 | 42.5 | | | | | | | 46.2 | 0.63 |
| | С | | | ! ! | | | | | | | | | 0.072 | |
| | D | | | | | | | | | | | | | Ì |
| H18 | В | | | | 4.0 | 92.9 | | · · · · · · · · · · · · · · · · · · · | | | | 7.8 | 104.7 | 0.63 |
| | С | | | | • | | | | | | | | 0.164 | 3.33 |
| | D | | | | | | | | į | | | | 0.10 | |
| H19 | В | 16.7 | 2.8 | | 37.3 | 9.9 | | | | | | 4.6 | 71.3 | 0.63 |
| | С | | | | | | | | | | | 1.0 | 0.111 | 0.03 |
| | D | | | | | | | | | | | | 0.222 | |
| H20 | В | 32.4 | | | | 13.0 | | | | | | | 45.4 | 0.57 |
| | c | | | | | | | | | | | | 0.071 | 0.5, |
| | D | | | | į | | | | | | | | 0.072 | ! |
| H21 | В | l | 51.7 | | | | | <u> </u> | | | | | 51.7 | 0.90 |
| - | С | ŀ | | | | | | | | | | | 0.081 | |
| | D | | | | | | | | | | | | | E |
| H22 | В | | 0.4 | 98.9 | | | | | | | | | 110.4 | 0.90 |
| | c | | | | | | | | | | | | 0.173 | 3.50 |
| | D | | 4.0 | 7.1 | 1 | | | | | | | | | |
| H23 | В | 21.0 | | | 34.0 | 10.0 | | | - | | | | 65.0 | 0.61 |
| | С | | | | | * - | | | | | | | 0.102 | 0.01 |
| | Д | | • | | 1 | | | | | | | ; | | |

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SHEET 11 OF 19

RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - UNPLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACRE | ES | | | | | OVERALL | VALUES |
|-------|------------|-------|-----------|---------|--------|---------|---------|--------|--------|-------|-------|--------|----------|--------|
| | HYDROLOGIC | | COMMER | | RESID | | RESID | | RESID | RESID | RESID | SCHOOL | AREA | |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | С |
| 11 | В | 0.0 | | | | 0.0 | 7.3 | | | | | 0.0 | 17.0 | 0.74 |
| | С |] | | 8.4 | | | 1.3 | | | | | | 0.027 | |
| | D | | | | | | | | | | | | <u> </u> | |
| 12 | В | | | : | | 0.0 | 4.6 | | | | | | 4.6 | 0.58 |
| | C | | | | | ĺ | | | | | | | 0.007 | |
| - | D | | | | | | | | | | | | | |
| 13 | В | | | | | | 0.0 | | | | | | 0.0 | N/A |
| | С | | | Ì | İ | | | | | | | | 0.000 | |
| | D | | | | ļ | | | | | | | | | |
| 14 | В | | | | 0.0 | 0.0 | 0.0 | | | | | | 0.0 | N/A |
| | C | | | | | | | | | | | | 0.000 | |
| 7.5 | D | | | | | | | _ | | | | | | |
| 15 | В | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | 0.0 | 0.0 | N/A |
| | C | | | | | | | | | | | • | 0.000 | , |
| 16 | D B | | | | | | | | | | | | | |
| | C | | | 0.0 | | | | | | | | | 0.0 | N/A |
| | ם | | | | | | | | | | | | 0.000 | |
| 17 | В | | | 0.0 | 0.0 | | | | | | | | | |
| -' | c | | | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | 0.0 | N/A |
| | D | | | | | | | | | | | | 0.000 | |
| 18 | В | | | 0.0 | 0.0 | | | | | | | | | |
| | c | | 1 | 0.0 | 0.0 | | 0.0 | | | | | | 0.0 | N/A |
| | D | | | | | | | | | | | | 0.000 | |
| 19 | В | | | | | | 0.0 | - | | | | | | |
| | c | | | | | | 0.0 | | | | | | 0.0 | n/a |
| | D | | | | | | | | | | | | 0.000 | |

RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - UNPLATTED AREAS

DATE: 18-May-92

| | 10-May-92 | | AVERAGE L | AND HER | MVD9 1 | WD 1000 | | | | | | | <u> </u> | |
|-------|------------|-------|-----------|--------------|----------|-------------|-------|--------|----------|---------------------------------------|-------------|---------------------------------------|----------|--------|
| | HYDROLOGIC | | COMMER | AND UNE | | | | T | | · · · · · · · · · · · · · · · · · · · | | | OVERALL | VALUES |
| BASIN | SOIL TYPE | PARKS | | TWD!!G# | RESID | RESID | RESID | RESID | | RESID | | SCHOOL | AREA | 1 |
| 110 | В | 0.0 | OR BUSIN | THOUST | | 1/6 AC | | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | С |
| | c | 0.0 | | | 0.0 | | 0.0 | | | | | 0.0 | 0.0 | N/A |
| | D | 0.0 | | 1 | | | | | | | | | 0.000 | |
| J1 | B | | | | | | | | | | | | | |
| | c | | 3.8 | | 7.7 | | 26.8 | | | | | | 38.3 | 0.62 |
| | D | 1 | | | | | | | | | | | 0.060 | • |
| J2 | В | | | <u> </u> | | | | | ļ | | | | | |
| • | c | | | 2.5 | | | | | | | | | 2.5 | 0.90 |
| | D | | | | | | | · | | | | | 0.004 | |
| J3 | В | | | 0.0 | <u> </u> | | | | | | | · · · · · · · · · · · · · · · · · · · | | |
| | c | | | 25.7 | | | | | | | | | 25.7 | 0.90 |
| | D | | | 0.0 | | <u> </u> | | | | | | | 0.040 | : |
| K1 | В | | | 0.0 | 70.2 | ļ <u></u> | | | | | | | | · |
| | c | ļ | | | 70.3 | | | | | | | | 85.0 | 0.67 |
| | ם | | | | 14.7 | | | | | | | | 0.133 | |
| K2 | В | | | | 9.2 | | | | | | | | | |
| | C | | | | 3.2 | 2.4 75.1 | | | | | | | 89.9 | 0.72 |
| | מ | | | | 3.4 | 13.1 | | | | | | | 0.140 | |
| K3 | В | | 8.4 | | 10.6 | 0.0 | | | | | | | | |
| | С | | | | 10.0 | 0.0 | | | | | | 2.1 | 21.1 | 0.75 |
| | ā | | | | | | | | | | | 0.0 | 0.033 | |
| K4 | В | 7.3 | 9.9 | | | 22.6 | | | | | | | | |
| | С | | | | | 7.2 | | | | | | | 84.0 | 0.72 |
| | D | 9.4 | 14.2 | | | 13.4 | | | | | | | 0.131 | |
| L1 | В | | 1.1 | | | 2.9 | | | | | | | | |
| | C | | | | | 4.3 | | | | | | | 6.9 | 0.71 |
| | D | | | | | 2.9 | | | | | | | 0.011 | |
| | | | | L | | 2.3 | | | <u> </u> | | | | | |

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SHEET 13 OF 19

RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - UNPLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACRI | SS | | | | | OVERALL | VALUES |
|-------|------------|----------|-----------|----------|------------|----------|---------|--------|--------|-------|----------|--------|----------|----------|
| | HYDROLOGIC | | COMMER | | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | c |
| L2 | В | 13.5 | | | 0.0 | 0.0 | | | | | | | 41.3 | 0.58 |
| | c | | | | | | | | | | | | 0.065 | : - |
| | ם | 27.8 | | | | | | | | | | | | |
| Ml | В | | 0.0 | | | 0.0 | 0.0 | | | | | | 0.0 | N/A |
| | С | | • | 1 | | | | | | } | | | 0.000 | <u> </u> |
| | D | | | | | | | | | | | | | |
| M2 | В | | 13.6 | | 3.0 | 0.0 | 9.1 | | | | | 0.0 | 35.1 | 0.75 |
| | C | | | | | | | Ì | | | | | 0.055 | |
| | D | | | | 9.4 | | | | | | | | | |
| мз | В | | 0.0 | | 0.0 | 0.0 | 0.0 | | | 0.0 | | | 0.0 | M/A |
| | С | | : | | | ļ | | | | | | | 0.000 | |
| | D | | | | | | | | | | | | | |
| M4 | В | | 0.0 | | | 0.0 | 0.0 | | | 0.0 | | | 0.0 | N/A |
| | C | | | | | | | | | | | | 0.000 | |
| | D | 1 | | | <u> </u> | | ļ | | | | <u> </u> | | | |
| M5 | В | | | | 0.0 | 0.0 | 12.2 | | | 0.0 | | | 12.2 | 0.58 |
| | C | | | | | | | 1 | 1 | | į. | | 0.019 | |
| | D | | | <u> </u> | ļ <u>.</u> | <u> </u> | | | | | | | | <u> </u> |
| M6 | В | | | | 0.0 | | 0.0 | 1 | | 0.0 | ŀ | | 0.0 | N/A |
| | c | | | | | | | | 1 | 1 | 1 | | 0.000 | |
| | D | | | | | <u></u> | | | | | <u> </u> | 1 | <u> </u> | |
| N1 | В | | 14.9 | | | 1.6 | | | | | | | 16.5 | 0.87 |
| | c | | | | 1 | | | | | | | | 0.026 | |
| | D | <u> </u> | | <u> </u> | | | | | | 1 | | | | 1 |
| N2 | В | | | | 0.0 | | 0.0 | | | | | 0.0 | 0.0 | N/I |
| | c | | | | | | | 1 | | | | | 0.000 | |
| | σ | | | 1 | | | | | | | | | | |

RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - UNPLATTED AREAS

| DATE: | 18-May-92 | | | | | | | | | | | | | * |
|-------|------------|-------|-----------|---------|--------|---------|--------|-------------|--------|-------|-------|--------|---------|--------|
| | | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACR | ES | | | | | OVERALL | VALUES |
| | HYDROLOGIC | | COMMER | | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | c |
| 113 | В | 0.0 | | | 0.0 | 0.0 | 0.0 | | | | | 0.0 | 0.0 | N/A |
| | c | 0.0 | | 1 | | | | | | | | | 0.000 | |
| | D | | | | | | | | | | | | | |
| 01 | В | | | | 8.5 | 7.3 | | | | | | 0.0 | 25.0 | 0.68 |
| | ¢ | | | | 9.2 | 0.0 | | | | | | | 0.039 | |
| | D | | | | | | | | | | | | | |
| 02 | В | | | | | 0.0 | | | | | | | 7.8 | 0.75 |
| | С | | | | | 0.0 | | | | | | | 0.012 | |
| | D | | · | | 7.8 | 0.0 | | | | | | | | |
| P1 | В | 0.0 | | | 0.0 | 0.0 | | | | | | | 0.0 | N/A |
| | С | | | 1 | 0.0 | 0.0 | | | | | | | 0.000 | |
| | D | | | | 0.0 | 0.0 | | | | | | | | |
| P2 | В | | | | | | 0.0 | | | • | | | 0.0 | N/A |
| | С | | | | | | | | | | | | 0.000 | |
| | D | | | | | | | | | | | | | |
| ₽3 | В | | 0.0 | | 0.0 | 0.0 | 0.0 | | | | | | 0.0 | N/A |
| | С | | | - | | 0.0 | | | | | | | 0.000 | |
| | D | | | ļ | | 0.0 | | | | | | | | |
| Q1 | В | | 4.1 | | 2.8 | | 0.0 | | | | | 0.0 | 6.9 | 0.80 |
| | C | | | | | | | | | | | | 0.011 | |
| | D | | | | | | | | | | | | | |
| Q2 | В | | 0.0 | | 0.0 | 0.0 | 2.0 | | | | | 2.0 | 4.0 | 0.61 |
| | C | | | | | | | | | | | | 0.006 | |
| - 03 | D D | | | | | | - | | | | | | | |
| Ω3 | В | ļ | 0.0 | | | | 0.3 | | | | | 2.7 | 3.0 | 0.64 |
| j | C | | | , | | | | | | | | | 0.005 | |
| | D | i | | | L | | | | | | | | | |

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RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - UNPLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACRI | ES | | | | | OVERALL | VALUES |
|-------|------------|-------|-----------|---------|--------|---------|---------|--------|--------|-------|-------|----------|---------|--------|
| | HYDROLOGIC | | COMMER | | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | С |
| Q4 | В | | 0.0 | | 13.1 | | 0.0 | | | | | | 13.1 | 0.65 |
| | c | | | | | | | | | | | | 0.020 | ļ |
| | ם | | | | | | | | | | | | | |
| Q5 | В | | | | | | 0.0 | | | | | | 0.0 | N/A |
| | c | | | | | | | | 1 | | | | 0.000 | |
| | Q . | | | | | | | | | | | | | |
| Q6 | В | | 0.0 | | 0.0 | | 0.0 | | | | | | 0.0 | N/A |
| | С | | | | | | | | | | | | 0.000 | |
| | D | | 0.0 | | 0.0 | | | | | | | | | |
| Q7 | В | 1.9 | 0.0 | | 3.1 | | 2.2 | | | | | | 9.9 | 0.63 |
| | С | | | | | | | | 1 | | | | 0.015 | 1 |
| | D | | | | 1.3 | | 1.4 | | | | | | | |
| Ω8 | В | | 0.0 | | 0.0 | | 0.0 | | | | | | 0.0 | N/A |
| | c | | | i | | | | | | | | | 0.000 | |
| | D | | | | | | | | | | | <u> </u> | | |
| R1 | В | | 0.0 | 0.0 | 1 | | 0.0 | | | | | | 0.0 | N/A |
| | c | | | | | | | | | | | - | 0.000 | |
| | D | | | | | | | | | | | | | |
| R2 | В | 0.0 | | | | 0.0 | 0.0 | | | | | 0.0 | 0.0 | N/A |
| | C | | | | | | | | ļ | | | | 0.000 | |
| | D | | | | | | | | | | | | | |
| R3 | В | | 0.0 | 0.0 | 0.0 | | | | 1 | | | | 0.0 | N/A |
| | C | | | | | | | | | | | | 0.000 | |
| | D | | | ļ | | | | | | | | | | |
| R4 | В | 0.0 | 20.9 | 0.0 | | | | | | | | | 20.9 | 0.90 |
| | C | 1 | | | | | | | | | ļ | | 0.033 | |
| | D | | | | | | | | | | | | | |

RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - UNPLATTED AREAS

DATE: 18-May-92

| | ł | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACR | ES | | | | | OVERALL | VALUES |
|-----------|------------|-------|-----------|---------|--------|---------|--------|--------|--------|-------|-------|--------|---------|--------|
| | HYDROLOGIC | | COMMER | | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | С |
| R5 | В | | 6.9 | | | | | | | | | | 6.9 | 0.90 |
| | c | | | | | | | | | | | | 0.011 | |
| | D | | | | | | | İ | | | | | | |
| R6 | В | 0.0 | 5.6 | | 10.3 | 0.0 | | | | | | 0.0 | 15.9 | 0.74 |
| | c | 0.0 | | | 0.0 | | | ļ | | | | | 0.025 | |
| | D | | | | | | | | | | | | | |
| R7 | В | | 3.2 | | | 0.0 | 0.0 | | | | | 0.0 | 3.2 | 0.90 |
| | С | | | | | | | | | | | | 0.005 | 3.30 |
| · | Œ | | | | | | | | | | | | 0.000 | |
| 81 | В | | 8.6 | | 11.6 | 0.0 | 6.2 | | | | | | 26.4 | 0.71 |
| | c | | | | | | | | | | | | 0.041 | 0.,1 |
| | D | | | | | | | | | | | | 0.041 | |
| S2 | В | | 0.0 | | 0.0 | | 0.0 | | | | | | 0.0 | N/A |
| | c | l | | | | | | | | į | | | 0.000 | ~/^ |
| | D | | | | | | | | | | | | 0.000 | |
| ន3 | В | | 0.0 | | 0.0 | | 0.0 | | | | | | 0.0 | N/A |
| | С | | | | | | | | | | | | 0.000 | P/A |
| | D | | | | | | | | | | | | 5.000 | |
| T1A | В | | 0.0 | | 0.0 | | 0.0 | | | | | | 0.0 | N/A |
| | С | | | | | | · | | | | | | 0.000 | B/A |
| | D | | | | | | | | | Ì | | | 0.000 | |
| T1B | В | | 0.0 | | | | 0.0 | | | | | | 0.0 | N/A |
| | С | | | | | • | | | | | | | 0.000 | =/A |
| | D | | | | | | | | | 1 | | | 0.000 | |
| T2 | В | | 0.0 | | 0.0 | 0.0 | | | | 0.0 | | 0.0 | 0.0 | N/A |
| | С | | | | | | | | | 5.5 | | 0.0 | 0.000 | B/A |
| | a | | | · | | | | | | | | | 0.000 | |

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RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - UNPLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACE | ES | | | | | OVERALL | VALUES |
|-----------|------------|-------|-----------|---------|--------|---------|--------|----------|--------|-------|-------|-----------|---------|--------|
| | HYDROLOGIC | | COMMER | | RESID | RESID | RESID | | RESID | RESID | RESID | SCHOOL | AREA | 1 |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | | AC/SM | С |
| T3 | В | | | | | 0.0 | | | | 0.0 | | 7 5.1.5.1 | 0.0 | N/A |
| | C | | | | | İ | | | j | | | | 0.000 | M/A |
| | D | | | | | | | | | | | | 0.000 | |
| T4A | В | | 0.0 | | | 0.0 | | | | 0.0 | | | 0.0 | N/A |
| | c | | | | | 0.0 | | | | 0.0 | | | 0.000 | -/^ |
| | D | | | | | | | | | | | | 0.000 | |
| T4B | В | | 0.0 | | | 0.0 | | | | 0.0 | | | 0.0 | N/A |
| | С | | | | | | | İ | | 0.0 | | | 0.000 | A/A |
| | D | | | | | L | | į | | | | | 0.000 | |
| U4A | В | 1 | 0.0 | | | 0.0 | 0.0 | | | 0.0 | | | 0.0 | N/A |
| | С | i | | | | | | | | | | | 0.000 | M/A |
| | D | | | | | | | | | | | | 0.000 | |
| U4B | В | | 0.0 | | | 0.0 | | | | 0.0 | | | 0.0 | N/A |
| | С | | - | | İ | | | | | 0.0 | | | 0.000 | 4/A |
| | D | | | | | | | | | | | | 3.000 | |
| U1 | В | | 0.0 | | 0.0 | | 0.0 | | | | | 0.0 | 0.0 | N/A |
| | C | j | | | 0.0 | | | | | | | | 0.000 | -, |
| U2 | D | | | | | | | <u> </u> | | | | | | |
| 02 | В | | 5.1 | | 0.0 | | 3.4 | | | | | | 8.5 | 0.77 |
| | С | 1 | | | | | | | ŀ | | | | 0.013 | 0.,, |
| U3 | D | | | | | | | | | | | | | |
| 03 | В | | 0.0 | | | 0.0 | 0.0 | | | | | | 0.0 | N/A |
| Ì | c | | ľ | ļ | | ļ | | | ļ | | | | 0.000 | , |
| V1 | D | | | | | | | | | | | |] | |
| A. | В | ł | 2.5 | | 0.0 | | 0.0 | | | | | | 11.0 | 0.90 |
| | C | | 8.5 | | | | | | | l | ĺ | | 0.017 | |
| | D | | | | 0.0 | | 0.0 | | [| | [| j | | |

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RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - UNPLATTED AREAS

DATE: 18-May-92

| | | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACRI | ES | | | | | OVERALL | VALUEC |
|------------|------------|-------|-----------|---------|--------|---------|---------|-------|-------|-------|-------|--------|---------|--------|
| | HYDROLOGIC | | COMMER | | RESID | RESID | | RESID | RESID | RESID | RESID | SCHOOL | AREA | VALUES |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | | | | 1 AC | 5 AC | /CHUR | AC/SM | c |
| V2 | В | | 4.1 | | 9.9 | | 0.6 | | | | | / Unon | 77.5 | 0.87 |
| | c | | 62.9 | | | | | | ļ | | | | 0.121 | 0.87 |
| | D | | | | | | | | | | | | 0.121 | |
| W1 | В | | 0.0 | 0.0 | | | 0.0 | | | | | | 0.0 | N/A |
| | c | | | | | | | | | | | | 0.000 | #/A |
| | D | | | 0.0 | | | | | | | | | 0.000 | |
| W2 | В | | | 0.0 | | | | | | | | | 0.0 | M/A |
| | c | | | | | | | | | | | | 0.000 | #/A |
| | D | | | 0.0 | | | | | | | ! | | 0.000 | |
| W 3 | В | | 0.0 | 0.0 | | | | | | | | | 0.0 | H/A |
| | С | | 0.0 | 0.0 | | | | | | | | | 0.000 | #/A |
| | D | | | 0.0 | | | | | | | | | 0.000 | |
| X1A | В | 0.0 | 0.0 | | | | | | | | | | 0.0 | N/A |
| | С | | | | | | | | | | | | 0.000 | -/- |
| | D | | | | | | , | | | | | | 0.000 | |
| X1B | В | 0.0 | 0.0 | | | | | | | | | | 0.0 | N/A |
| | С | | | | | | | | | | | | 0.000 | A/A |
| | D | 0.0 | 0.0 | | | | | | 0.0 | | | | 0.000 | |
| Х2 | В | 3.0 | 0.0 | 0.0 | | | | | | | | | 3.0 | 0.55 |
| [| С | | | | | | | | | | | | 0.005 | 0.35 |
| | D | | | | | | | | | | | | 0.005 | |
| ж3 | В | 0.0 | 0.0 | 0.0 | | | 0.0 | | | | | | 0.0 | N/A |
| | С | 1 | | | | | | | | | | | 0.000 | a/A |
| | D | 0.0 | | 0.0 | | | 0.0 | 0.0 | 0.0 | İ | | | 5.550 | |
| X4 | В | ł | 0.0 | | | | 0.0 | 0.0 | 0.0 | | | | 0.0 | N/A |
| | С | | | | | | | | | | | | 0.000 | a, n |
| | D | 0.0 | 0.0 | | | | 0.0 | 0.0 | 0.0 | 1 | | | 0.000 | |

SHEET 18 OF 19

á,

SHEET 19 OF 19

RATIONAL METHOD - SUBBASIN HYDROLOGIC DATA - UNPLATTED AREAS

DATE: 18-May-92

| | , | | AVERAGE L | AND USE | TYPE A | ND AREA | IN ACR | ES | | | | | OVERALL | VALUES |
|------------|------------|-------|-----------|---------|--------|---------|--------|--------|--------|-------|-------|--------|---------|--------|
| | HYDROLOGIC | | COMMER | | RESID | RESID | RESID | RESID | RESID | RESID | RESID | SCHOOL | AREA | T |
| BASIN | SOIL TYPE | PARKS | OR BUSIN | INDUST | 1/8 AC | 1/6 AC | 1/4 AC | 1/3 AC | 1/2 AC | 1 AC | 5 AC | /CHUR | AC/SM | c |
| X 5 | В | | 0.0 | | | | 0.0 | 0.0 | | | | | 0.0 | N/A |
| | C | | | | | | | | | | | 1 | 0.000 | |
| | D | | 0.0 | | | | 0.0 | 0.0 | | | | | } | |
| Y1 | В | 16.1 | | 0.0 | | | 0.0 | | | | | | 16.1 | 0.55 |
| | C | | | | | | | | | | | | 0.025 | l |
| | D | | | | | | | | | | | | | |
| ¥2 | В | | 15.6 | | | | 0.0 | | | | | | 15.6 | 0.90 |
| | С | | 0.0 | | | | | | | | | | 0.024 | |
| · | D | | 0.0 | 0.0 | | | 0.0 | | | | | | | |
| TOTAL | | 241.6 | 1175.7 | 547 | 730.4 | 1620.1 | 1253.8 | 0 | 0 | 493.4 | 740.3 | 175.9 | 6,978 | 0.63 |

COTTONWOOD CREEK
DRAINAGE BASIN PLANNING STUDY
APPENDIX B
AUGUST 24, 1992
TABLE 18
PLATTED VS. UNPLATTED AREAS
CA VALUES

SHEET 1 OF 5 DATE: 18-May-92

| | BASIN | PLATTED | UNPLATTED | PLATTED | UNPLATTED | PLATTED | UNPLATTED |
|----------|----------------|------------|----------------|---------|-----------|----------|--------------|
| | AREA | AREA | AREA | AREA | AREA | AREA | AREA |
| BASIN | ACRES | ACRES | ACRES | C VALUE | C VALUE | CA VALUE | CA VALUE |
| A1 | 120.6 | 3.0 | 117.6 | 0.20 | 0.20 | 0.6 | 23.5 |
| A2 | 134.2 | 23.0 | 111.2 | 0.20 | 0.20 | 4.6 | 22.2 |
| A3 | 103.9 | 9.6 | 94.3 | 0.20 | 0.20 | 1.9 | 18.9 |
| A4 | 162.4 | 124.5 | 37.9 | 0.20 | 0.20 | 24.9 | 7.6 |
| A5 | 134.2 | 94.0 | 40.2 | 0.20 | 0.20 | 18.8 | 8.0 |
| A6 | 90.0 | 67.7 | 22.3 | 0.20 | 0.20 | 13.5 | 4.5 |
| A7 | 87.4 153.3 | 29.4 | 58.0 | 0.20 | 0.20 | 5.9 | 11.6 |
| A9 | 126.0 | 122.1 | 31.2 | 0.20 | 0.20 | 24.4 | 0.3 |
| A10 | 108.2 | 92.4 | 15.8 | 0.20 | 0.20 | 18.5 | 3.2 |
| A11 | 76.1 | 26.4 | 49.7 | 0.20 | 0.20 | 5.3 | 9.9 |
| A12 | 76.2 | 31.0 | 45.2 | 0.40 | 0.40 | 12.4 | 18.1 |
| A13 | 102.9 | 99.2 | 3.7 | 0.20 | 0.20 | 19.8 | 0.7 |
| B1 | 122.6 | 44.8 | 77.8 | 0.27 | 0.40 | 12.1 | 31.1 |
| B2 | 68.6 | 1.0 | 67.6 | 0.40 | 0.60 | 0.4 | 40.6 |
| B3 | 93.2 | 4.4 | 88.8 | 0.58 | 0.55 | 2.6 | 48.8 |
| 84 | 66.6 | 9.6 | 57.0 | 0.58 | 0.54 | 5.6 | 30.8 |
| B5 | 68.2 | 0.0 | 68.2 | 1.00 | 0.72 | 0.0 | 49.1 |
| Bó | 117.2 | 9.9 | 107.3 | 0.58 | 0.65 | 5.7 | 69.7 |
| B7 | 190.1 | 0.0 | 190.1 | 1.00 | 0.63 | 0.0 | 119.8 |
| 88 | 101.8 | 0.0 | 101.8 | 1.00 | 0.73 | 0.0 | 74.3 |
| B9 | 108.0 | 21.6 | 86.4 | 0.65 | 0.71 | 14.0 | 61.3 |
| C1 | 105.3 | 38.1 | 67.2 | 0.40 | 0.39 | 15.2 | 26.2 |
| C2 | 98.3 | 0.0 | 98.3 | 1.00 | 0.22 | 0.0 | 21.6 |
| C3 | 103.6 | 2.0 | 101.6 | 0.20 | 0.40 | 0.4 | 40.6 |
| C4 | 143.1 | 2.0 | 141.1 | 0.20 | 0.46 | 0.4 | 64.9 |
| C5 | 145.6 | 37.2 | 108.4 | 0.20 | 0.47 | 7.4 | 50.9 |
| C6 | 68.3 | 0.0 | 68.3 | 1.00 | 0.62 | 0.0 | 42.3 |
| C7 | 99.6 | 0.0 | 99.6 | 1.00 | 0.63 | 0.0 | 62.7 |
| C8 C9 | 109.2 132.0 | 1.0 0.0 | 108.2 132.0 | 1.00 | 0.64 | 0.4 | 69.2 80.5 |
| C10 | 67.7 | 0.0 | 67.7 | 1.00 | 0.61 | 0.0 | 41.3 |
| C11 | 79.7 | 0.0 | 79.7 | 1.00 | 0.66 | 0.0 | 52.6 |
| C12 | 71.6 | 0.0 | 71.6 | 1.00 | 0.65 | 0.0 | 46.5 |
| C13 | 79.9 | 0.0 | 79.9 | 1.00 | 0.45 | 0.0 | 36.0 |
| C14 | 66.7 | 0.0 | 66.7 | 1.00 | 0.60 | 0.0 | 40.0 |
| C15 | 54.6 | 0.0 | 54.6 | 1.00 | 0.62 | 0.0 | 33.9 |
| C16 | 90.5 | 0.0 | 90.5 | 1.00 | 0.60 | 0.0 | 54.3 |
| C17 | 56.4 | 0.0 | 56.4 | 1.00 | 0.61 | 0.0 | 34.4 |
| C18 | 128.5 | 0.0 | 128.5 | 1.00 | 0.62 | 0.0 | 79.7 |
| C19 | 71.9 | 0.0 | 71.9 | 1.00 | 0.62 | 0.0 | 44.6 |
| C20 | 72.5 | 0.0 | 72.5 | 1.00 | 0.63 | 0.0 | 45.7 |
| D1 | 105.7 | 0.0 | 105.7 | 1.00 | 0.68 | 0.0 | 71.9 |

SHEET 2 OF 5 DATE: 18-May-92

| | | | | | | DITTE: | To May-3 |
|------------|--|-------------|-----------|---------|-----------|----------|-----------|
| | BASIN | PLATTED | UNPLATTED | PLATTED | UNPLATTED | PLATTED | UNPLATTED |
| | AREA | AREA | AREA | 1 | 1 | AREA | AREA |
| BASIN | ACRES | ACRES | ACRES | C VALUE | L | CA VALUE | CA VALUE |
| D2 | 12.11 | | 118.3 | 0.69 | | 6.1 | 82.8 |
| D3 | | 27.1 | 54.0 | 0.90 | 0.90 | 24.4 | 48.6 |
| D4 | 75.2 | 0.0 | 75.2 | 1.00 | 0.81 | 0.0 | 60.9 |
| 05 | | 23.0 | 58.7 | 0.90 | 0.90 | 20.7 | 52.8 |
| E1 | + | | 59.5 | 1.00 | 0.54 | 0.0 | 32.1 |
| E2 | | | 57.7 | | 0.83 | 0.0 | 47.9 |
| E3 | | 0.0 | 93.7 | 1.00 | 0.75 | 0.0 | 70.3 |
| E4 | 98.6 | 0.0 | 98.6 | 1.00 | 0.70 | 0.0 | 69.0 |
| E5 | | 0.0 | 81.4 | 1.00 | 0.72 | 0.0 | 58.6 |
| E6 | | 0.0 | 28.8 | 1.00 | 0.60 | 0.0 | 17.3 |
| E7 | | 23.9 | 51.3 | 0.65 | 0.71 | 15.5 | 36.4 |
| E8 | 79.6 | 0.0 | 79.6 | 1.00 | 0.73 | 0.0 | 58.1 |
| E9 | 67.2 | 0.0 | 67.2 | 1.00 | 0.60 | 0.0 | 40.3 |
| E10 | 59.9 | 16.6 | 43.3 | 0.63 | 0.62 | 10.5 | 26.8 |
| E11 | 63.8 | 4.7 | 59.1 | 0.58 | 0.60 | 2.7 | 35.5 |
| F1 | 87.7 | 10.3 | 77.4 | 0.63 | 0.69 | 6.5 | 53.4 |
| G1 | 115.1 | 39.0 | 76.1 | 0.63 | 0.80 | 24.6 | 60.9 |
| G2 | 68.7 | 53.5 | 15.2 | 0.65 | 0.56 | 34.8 | 8.5 |
| 63 | 116.9 | 100.1 | 16.8 | 0.63 | 0.60 | 63.1 | 10.1 |
| G4 | 84.7 | 43.4 | 41.3 | 0.72 | 0.80 | 31.2 | 33.0 |
| G5 C4 | 75.5 | 18.8 | 56.7 | 0.59 | 0.60 | 11.1 | 34.0 |
| G6 | 89.0 | 85.0 | 4.0 | 0.63 | 0.63 | 53.6 | 2.5 |
| G7 | 109.6 | 4.6 | 105.0 | 0.76 | 0.66 | 3.5 | 69.3 |
| G8 | 52.1 | 11.2 | 40.9 | 0.65 | 0.67 | 7.3 | 27.4 |
| H1 | 107.9 | 107.9 | 0.0 | 0.82 | 1.00 | 88.5 | 0.0 |
| H2 | 67.7 | 0.0 | 67.7 | 1.00 | 0.90 | 0.0 | 60.9 |
| H3 | 90.2 | 88.4 | 1.8 | 0.63 | 0.64 | 55.7 | 1.2 |
| 115 | 82.1 | 63.0 | 19.1 | 0.63 | 0.63 | 39.7 | 12.0 |
| H5 | 231.9 | 0.0 | 231.9 | 1.00 | 0.90 | 0.0 | 208.7 |
| H6 | 136.8 | 47.8 | 89.0 | 0.90 | 0.90 | 43.0 | 80.1 |
| H7 | 89.9 | 79.8 | 10.1 | 0.73 | 0.90 | 58.3 | 9.1 |
| H8 H9 | 80.0 | 74.3 | 5.7 | 0.65 | 0.63 | 48.3 | 3.6 |
| H10 | 110.4 | 23.0 | 87.4 | 0.63 | 0.63 | 14.5 | 55.1 |
| H11 | 40.8 92.2 | 0.0 | 40.8 | 1.00 | 0.70 | 0.0 | 28.6 |
| H12 | | 3.5 | 88.7 | 0.90 | 0.90 | 3.2 | 79.8 |
| H13 | 104.0 | 43.0 | 61.0 | 0.72 | 0.77 | 31.0 | 47.0 |
| H14 | | 0.0 | 81.7 | 1.00 | 0.78 | 0.0 | 63.7 |
| H15 | 73.6 | 3.6 | 70.0 | 0.90 | 0.87 | 3.2 | 60.9 |
| H16 | 53.4 | 4.0 | 49.4 | 0.90 | 0.90 | 3.6 | 44.5 |
| H17 | 68.0 65.0 | 47.3 | 20.7 | 0.68 | 0.73 | 32.2 | 15.1 |
| H18 | | 18.8 | 46.2 | 0.67 | 0.63 | 12.6 | 29.1 |
| H19 | 75.2 | 6.3 | 104.7 | 0.63 | 0.63 | 4.0 | 66.0 |
| 117 | 13.2 | 3.9 | 71.3 | 0.58 | 0.63 | 2.3 | 44.9 |

SHEET 3 OF 5 DATE: 18-May-92

| | - VD V 0118 12 | | | | | D111 D1 | 10 may 31 |
|-----------|----------------|---------------|-------------|--------------|--------------|--------------|-----------|
| | BASIN | PLATTED | UNPLATTED | PLATTED | UNPLATTED | PLATTED | UNPLATTED |
| | AREA | AREA | AREA | AREA | AREA | AREA | AREA |
| BASIN | ACRES | ACRES | ACRES | C VALUE | C VALUE | CA VALUE | CA VALUE |
| H20 | 45.4 | 0.0 | 45.4 | 1.00 | 0.57 | 0.0 | 25.9 |
| H21 | 51.7 | 0.0 | 51.7 | 1.00 | 0.90 | 0.0 | 46.5 |
| H22 | 113.7 | 3.3 | 110.4 | 0.90 | 0.90 | 3.0 | 99.4 |
| H23 | 67.0 | 2.0 | 65.0 | 0.65 | 0.61 | 1.3 | 39.7 |
| J1 | 136.1 | 97.8 | 38.3 | 0.62 | 0.62 | 60.6 | 23.7 |
| J2 | 54.2 | 51.7 | 2.5 | 0.90 | 0.90 | 46.5 | 2.3 |
| J3 | 84.6 | 58.9 | 25.7 | 0.90 | 0.90 | 53.0 | 23.1 |
| K1 | 108.0 | 23.0 | 85.0 | 0.66 | 0.67 | 15.2 | 57.0 |
| K2 | 119.9 | 30.0 | 89.9 | 0.64 | 0.72 | 19.2 | 64.7 |
| K3 | 62.8 | 41.7 | 21.1 | 0.66 | 0.75 | 27.5 | 15.8 |
| K4 | 93.8 | 9.8 | 84.0 | 0.79 | 0.72 | 7.7 | 60.5 |
| L1 | 92.7 | 85.8 | 6.9 | 0.66 | 0.71 | 56.6 | 4.9 |
| L2 | 94.0 | 52.7 | 41.3 | 0.58 | 0.58 | 30.6 | 24.0 |
| M1 M2 | 57.6 | 57.6 | 0.0 | 0.84 | 1.00 | 48.4 | 0.0 |
| M3 | 130.9 102.1 | 95.8 102.1 | 35.1 0.0 | 0.61 0.65 | 0.75 1.00 | 58.4 66.4 | 26.3 |
| H4 | 146.5 | 146.5 | 0.0 | 0.52 | 1.00 | 76.2 | 0.0 |
| M5 | 65.1 | 52.9 | 12.2 | 0.58 | 0.58 | 30.7 | 7.1 |
| M6 | 64.6 | 64.6 | 0.0 | 0.60 | 1.00 | 38.8 | 0.0 |
| 01 | 72.0 | 47.0 | 25.0 | 0.70 | 0.68 | 32.9 | 17.0 |
| 02 | 77.8 | 70.0 | 7.8 | 0.70 | 0.75 | 49.0 | 5.9 |
| P1 | 77.8 | 77.8 | 0.0 | 0.68 | 1.00 | 52.9 | 0.0 |
| P2 | 53.7 | 53.7 | 0.0 | 0.58 | 1.00 | 31.1 | 0.0 |
| P3 | 127.7 | 127.7 | 0.0 | 0.64 | 1.00 | 81.7 | 0.0 |
| Q1 | 65.1 | 58.2 | 6.9 | 0.61 | 0.80 | 35.5 | 5.5 |
| 92 | 128.6 | 124.6 | 4.0 | 0.61 | 0.61 | 76.0 | 2.4 |
| Q3 | 50.0 | 47.0 | 3.0 | 0.65 | 0.64 | 30.6 | 1.9 |
| 94 | 82.2 | 69.1 | 13.1 | 0.72 | 0.65 | 49.8 | 8.5 |
| Q5 | 98.2 | 98.2 | 0.0 | 0.58 | 1.00 | 57.0 | 0.0 |
| 96 | 134.4 | 134.4 | 0.0 | 0.81 | 1.00 | 108.9 | 0.0 |
| 97 | 116.4 | 106.5 | 9.9 | 0.64 | 0.63 | 68.2 | 6.2 |
| 8.0 | 53.8 | 53.8 | 0.0 | 0.67 | 1.00 | 36.0 | 0.0 |
| S1 | 84.1 | 57.7 | 26.4 | 0.59 | 0.71 | 34.0 | 18.7 |
| \$2 | 85.8 | 85.8 | 0.0 | 0.68 | 1.00 | 58.3 | 0.0 |
| \$3 | 116.8 | 116.8 | 0.0 | 0.63 | 1.00 | 73.6 | 0.0 |
| T1A | 56.9 | 56.9 | 0.0 | 0.69 | 1.00 | 39.3 | 0.0 |
| T18 | 81.4 | 81.4 | 0.0 | 0.62 | 1.00 | 50.5 | 0.0 |
| 12 | 101.7 | 101.7 | 0.0 | 0.48 | 1.00 | 48.8 | 0.0 |
| T3 | 74.6 | 74.6 | 0.0 | 0.56 | 1.00 | 41.8 | 0.0 |
| T48 | 60.7 | 60.7 | 0.0 | 0.64 | 1.00 | 38.8 | 0.0 |
| V1 | 48.0 146.6 | 48.0 135.6 | 0.0 | 0.73 | 1.00 | 35.0 | 0.0 |
| V2 | 90.6 | | 11.0 | 0.64 | 0.90 | 86.8 | 9.9 |
| ** | 70.0 | 13.1 | 77.5 | 0.90 | 0.87 | 11.8 | 67.4 |

COTTONWOOD CREEK DBPS - TABLE 18 SHEET 4 OF 5 DATE: 18-May-92 PLATTED VS. UNPLATTED AREAS - CA VALUES BASIN PLATTED UNPLATTED PLATTED UNPLATTED PLATTED UNPLATTED AREA AREA AREA AREA AREA AREA AREA ACRES ACRES ACRES C VALUE C VALUE CA VALUE CA VALUE BASIN W1 134.0 134.0 0.0 0.73 1.00 97.8 0.0 W2 79.7 79.7 0.0 0.90 1.00 71.7 0.0

0.90

1.00

60.6

3,093.6

0.0

4,311.5

0.0

6,850.0

V3

TOTAL

67.3

12,110.6

67.3

5,260.6

SHEET 5 OF 5 DATE: 18-May-92

| | | | | | | | 18121 127 |
|------------|---------|---------|-----------|---------|-----------|----------|------------|
| | BASIN | PLATTED | UNPLATTED | PLATTED | UNPLATTED | PLATTED | UNPLATTED |
| | AREA | AREA | AREA | AREA | AREA | AREA | AREA |
| BASIN | ACRES | ACRES | ACRES | C VALUE | C VALUE | CA VALUE | CA VALUE |
| 11 | 129.7 | 112.7 | 17.0 | 0.60 | 0.74 | 67.6 | 12.6 |
| 12 | 64.7 | 60.1 | 4.6 | 0.61 | 0.58 | 36.7 | 2.7 0.0 |
| 13 | 85.4 | 85.4 | 0.0 | 0.58 | 1.00 | 49.5 | 0.0 |
| 14 | 111.2 | 111.2 | 0.0 | 0.58 | 1.00 | 64.5 | 0.0 |
| 15 | 157.2 | 157.2 | 0.0 | 0.64 | 1.00 | 100.6 | |
| 16 | 175.1 | 175.1 | 0.0 | 0.90 | 1.00 | 157.6 | 0.0 |
| 17 | 95.7 | 95.7 | 0.0 | 0.68 | 1.00 | 65.1 | 0.0 |
| 18 | 68.2 | 68.2 | 0.0 | 0.68 | 1.00 | 46.4 | 0.0 |
| 19 | 29.4 | 29.4 | 0.0 | 0.58 | 1.00 | 17.1 | 0.0 |
| 110 | 109.7 | 109.7 | 0.0 | 0.61 | 1.00 | 66.9 | 0.0 |
| N1 | 98.1 | 81.6 | 16.5 | 0.81 | 0.87 | 66.1 | 14.4 |
| N2 | 58.4 | 58.4 | 0.0 | 0.59 | 1.00 | 34.5 | 0.0 |
| N3 | 162.4 | 162.4 | 0.0 | 0.60 | 1.00 | 97.4 | 0.0 |
| R1 | 114.6 | 114.6 | 0.0 | 0.83 | 1.00 | 95.1 | 0.0 |
| R2 | 79.6 | 79.6 | 0.0 | 0.61 | 1.00 | 48.6 | 0.0 |
| R3 | 47.4 | 47.4 | 0.0 | 0.83 | 1.00 | 39.3 | 0.0 |
| R4 | 124.1 | 103.2 | 20.9 | 0.87 | 0.90 | 89.8 | 18.8 |
| R5 | 124.4 | 117.5 | 6.9 | 0.90 | 0.90 | 105.8 | 6.2 |
| R6 | 127.8 | 111.9 | 15.9 | 0.66 | 0.74 | 73.9 | 11.8 |
| R7 | 105.7 | 102.5 | 3.2 | 0.77 | 0.90 | 78.9 | 2.9 |
| U1 | 86.9 | 86.9 | 0.0 | 0.63 | 1.00 | 54.7 | 0.0 |
| U2 | 92.7 | 84.2 | 8.5 | 0.63 | 0.77 | 53.0 | 6.5 |
| U3 | 66.1 | 66.1 | 0.0 | 0.80 | 1.00 | 52.9 | 0.0 |
| U4A | 53.4 | 53.4 | 0.0 | 0.61 | 1.00 | 32.6 | 0.0 |
| U4B | 100.0 | 100.0 | 0.0 | 0.52 | 1.00 | 52.0 | 0.0 |
| X1A | 30.6 | 30.6 | 0.0 | 0.56 | 1.00 | 17.1 | 0.0 |
| X1B | 79.7 | 79.7 | 0.0 | 0.57 | 1.00 | 45.4 | 0.0 |
| X2 | 94.3 | 91.3 | 3.0 | 0.89 | 0.55 | 81.3 | 1.7 |
| х3 | 118.8 | 118.8 | 0.0 | 0.82 | 1.00 | 97.4 | 0.0 |
| X4 | 117.3 | 117.3 | 0.0 | 0.64 | 1.00 | 75.1 | 0.0 |
| X 5 | 78.9 | 78.9 | 0.0 | 0.68 | 1.00 | 53.7 | 0.0 |
| Y1 | 79.6 | 63.5 | 16.1 | 0.58 | 0.55 | 36.8 | 8.9 |
| Y2 | 97.3 | 81.7 | 15.6 | 0.89 | 0.90 | 72.7 | 14.0 |
| TOTAL | 3,164.4 | 3,036.2 | 128.2 | | | 2,126.0 | 100.4 |

COTTONWOOD CREEK DRAINAGE BASIN PLANNING STUDY AUGUST 24, 1992 HEC-1 COMPUTER PRINTOUTS COTTONWOOD CREEK BASIN FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

| | HEC-1 INPUT | | | | | | | | | | | |
|------|-------------|---------------|-----------|----------|----------------|---------------------|----------------|-------|-------|-------|--|--|
| LINE | ID. | 2. | 3. | 4 . | 5. | 6. | 7. | 8. | 9. | 10 | | |
| 1 | ID | COTTONWOOD CR | | | | | | | | | | |
| 2 | ID | RECOMMENDED F | LAN FOR | THE BACT | M . INDI | . 472U7 T Elle c | DTO IND | | | | | |
| 3 | ID | USING THE 100 | YEAR 24 | HOLD ST | DOM THE | I FILE C | DIA.IMP | | | | | |
| 4 | ID | RUN DATE 7-31 | -92 - RE | VISED TO | MOVE DO | EM CKIIE | KIN | | | | | |
| | *D1/ | AGRAM | / | 11000 10 | HOTE PU | NU | r | | | | | |
| 5 | IT | 5 01SEP89 | 800 | 300 | | | | | | | | |
| 6 | 10 | 5 | 500 | 500 | | | | | | | | |
| 7 | KK | A1 | | | | | | | | | | |
| 8 | KM | RUNOFF FROM | A1 | | | | | | | | | |
| 9 | BA | 0.188 | A1 | | | | | | | | | |
| 10 | LS | 0 60.0 | | | | | | | | | | |
| 11 | UD | 0.410 | | | | | | | | | | |
| 12 | KM | DESIGN POINT | 1 | | | | | | | | | |
| 13 | IN | 15 | • | | | | | | | | | |
| 14 | PB | Ő | | | | | | | | | | |
| 15 | PC | 0.000 0.002 | 0.006 | 0.012 | 0.019 | 0 035 | 0.077 | 0.014 | | | | |
| 16 | PC | 0.068 0.078 | 0.087 | 0.096 | 0.105 | 0.025 | 0.033 | 0.041 | 0.050 | 0.059 | | |
| 17 | PC | 0.248 0.310 | 0.414 | 1.654 | 2.895 | 0.115 | 0.132 | 0.161 | 0.190 | 0.219 | | |
| 18 | PC | 3.309 3.350 | 3.392 | 3.412 | 3.433 | 2.999 | 3.102 | 3.164 | 3.226 | 3.267 | | |
| 19 | PC | 3.557 3.573 | 3.588 | 3.604 | | 3.454 | 3.474 | 3.495 | 3.516 | 3.536 | | |
| 20 | PC | 3.712 3.728 | 3.743 | 3.757 | 3.619 3.770 | 3.635 | 3.650 | 3.666 | 3.681 | 3.697 | | |
| 21 | PC | 3.846 3.857 | 3.867 | 3.878 | | 3.784 | 3.797 | 3.809 | 3.822 | 3.834 | | |
| 22 | PC | 3.950 3.960 | 3.971 | 3.981 | 3.888 | 3.898 | 3.909 | 3.919 | 3.929 | 3.940 | | |
| 23 | PC | 4.053 4.059 | 4.064 | 4.069 | 3.991 | 4.002 | 4.012 | 4.022 | 4.033 | 4.043 | | |
| 24 | PC | 4.105 4.110 | 4.115 | 4.121 | 4.074 4.126 | 4.079 4.131 | 4.084 4.136 | 4.090 | 4.095 | 4.100 | | |
| 25 | KK | 1-2 | | | | . • | | | | | | |
| 26 | KM | ROUTE TO DES | TEN DOTNI | | | | | | | | | |
| 27 | RK | 2300 .025 | .035 | 0 | 7040 | 20 | _ | | | | | |
| | | 2300 .023 | .033 | U | TRAP | 20 | 2 | | | | | |
| 28 | KK | A3 | | | | | | | | | | |
| 29 | KM | RUNOFF FROM | A3 | | | | | | | | | |
| 30 | BA | 0.162 | | | | | | | | | | |
| 31 | ĹS | 0 60.0 | | | | | | | | | | |
| 32 | ŭo | 0.370 | | | | | | | | | | |
| | - | V.5, V | | | | | | | | | | |

```
33
34
35
                 KK
                           2
                        COMBINE 1-2 AND A3
                 KM
                 HC
  36
37
38
                 KK
                         2-3
                        ROUTE TO DESIGN POINT 3
3500 .025 .035
                 KM
                 RK
                       3500
                                                            TRAP
                                                                       20
                                                                                 2
  39
40
41
42
43
                 KK
                         A2
                 KM
BA
                        RUNOFF FROM A2
                      0.210
                 LS
                                60.0
                 UD
                      0.360
                                                   HEC-1 INPUT
                                                                                                                  PAGE 2
                 ID......1......2......3......4.......5......6.......7......8......9......10
LINE
  44
45
46
47
48
                KK
                         A4
                        RUNOFF FROM A4
                KM
                      0.254
                BA
                LS
                          0
                                60.0
                UD
                      0.320
  49
50
51
52
53
                KK
                         A5
                KM
                        RUNOFF FROM A5
                BA
                      0.210
                LS
                       0
                                60.0
                      0.350
                UD
 54
55
56
                KK
                KM
                        COMBINE 2-3,A2,A4,A5
 57
                KK
 58
59
                        ROUTE TO DESIGN POINT 4
3500 .030 .035
                KM
                RK
                                                      0
                                                           TRAP
                                                                                2
                                                                       20
 60
61
62
63
64
                KK
                         A8
                KM
                        RUNOFF FROM A8
                BA
                     0.240
                LS
                         0
                                60.0
                     0.390
 65
66
67
68
69
                KK
                         A9
                KM
                        RUNOFF FROM A9
                BA
                     0.197
                L.S
UD
                         0
                                60.0
                     0.330
 70
71
72
                KK
                        COMBINE 3-4,A8,A9
                KM
                HC
 73
74
                KK
                        ROUTE TO DESIGN POINT 5
                KM
```

غ ف

```
75
                         2000
                                   .030
                                            .035
                                                         0 TRAP
                                                                           50
                                                                                     2
  76
77
78
79
80
                 KM
BA
LS
                          RUNOFF FROM A6
                       0.141
                                  60.0
                       0.340
                  UD
  81
82
83
84
85
                 KK
KM
BA
LS
UD
                       A7
RUNOFF FROM A7
0.137
                                  60.0
                       0.360
                                                     HEC-1 INPUT
                                                                                                                       PAGE 3
LINE
                 ID......1.....2......3.....4......5.....6.....7.....8.....9.....10
  86
87
88
                 KK
                         5A
COMBINE A6,A7
                 KM
                 HC
  89
                 KK
                        5A-5
 90
91
                         ROUTE TO DESIGN POINT 5
3900 .025 .035
                 RK
                        3900
                                                              TRAP
                                                                                     2
 92
93
94
95
96
                 KK
                         A10
                         RUNOFF FROM A10
                 KM
                 BA
                       0.169
                 LS
                                  60.0
                 UD
                       0.370
                 KK
                         A11
 98
99
                      RUNOFF FROM A11
0.119
0 60.0
                 KM
BA
LS
UD
 100
101
                       0.290
102
103
                 KK
                         A12
                 KM
BA
LS
UD
                        RUNOFF FROM A12
104
                       0.119
105
                        0
                                  68.0
                      0.290
106
107
                         A13
108
109
                 KM
BA
                        RUNOFF FROM A13
                      0.161
110
                 LS
                        0
                                  60.0
111
                       0.360
                 UD
                      B1
RUNOFF FROM B1
0.192
0 66.1
0.310
                 KK
KM
BA
LS
UD
112
113
114
115
116
```

```
117
                KK
 118
                        COMBINE 4-5,5A-5,A10,A11,A12,A13,B1
                KM
 119
                HC
 120
                KK
 121
                      CHAPEL HILLS EAST DETENTION POND NO 2
0 2.8 6.4 10.8 15.0
57.0 65.4 74.7 85.5 95.8
                KM
SV
 122
123
124
                                                                   21.3
                                                                             27.5
                                                                                      33.8
                                                                                                        49.0
                                                                                               41.0
                SV
                                                                  109.0
                                                                            123.9 144.8
                                                                                              163.5
                SE
SE
SQ
SQ
                       6602 6604.5
6627 6629.5
                                         6607
                                                           6612 6614.5
6637 6639.5
                                                6609.5
                                                                             6617 6619.5
                                                                                               6622
                                                                                                     6624.5
 125
                                         6632
                                                6634.5
                                                                             6642 6644.5
70 76
                                                                                               6647
82
 126
                                  24
                                          37
                                                            56
111
                                                                      63
                                                                                                          88
 127
                         92
1
                                  97
                                          102
                                                   107
                                                                     115
                                                                              119
                                                                                       596
                                                                                               1802
 128
                RS
                                ELEV
                                         6602
                                                  HEC-1 INPUT
                                                                                                                 PAGE 4
LINE
                ID......1......2......3......4......5......6......7.....8......9.....10
129
                KK
                       5-6
                       ROUTE TO DESIGN POINT 5
6000 .015 .035
 130
                KM
 131
                RK
                       6000
                                                     0
                                                           TRAP
                                                                      80
                                                                                2
132
                KK
                        B2
133
                KM
                       RUNOFF FROM B2
134
                BA
                     0.107
135
                LS
                         0
                               77.9
136
                UD
                     0.270
137
                KK
                     B2-6A
138
                      ROUTE TO DESIGN POINT 6A
                KM
139
                RK
                      3000
                                .025
                                         .035
                                                     0
                                                           TRAP
                                                                      20
                                                                                2
140
                KK
141
               KM
BA
LS
UD
                       RUNOFF FROM B6
142
                     0.183
143
                               80.3
144
                     0.210
145
                KK
               KM
146
                       COMBINE B2-6A, B6
147
148
               KK
KM
BA
LS
UD
149
                       RUNOFF FROM B3
150
                     0.146
151
                         0
                               74.0
152
                     0.260
153
               KK
KM
154
                       RUNOFF FROM B4
155
               BA
                     0.104
156
               LS
                         0
                               73.1
157
               Ū
                     0.280
158
               KK
159
               KH
                       COMBINE 5-6,6A,83,84
```

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160
              HC
 161
                     6-7
 162
                     ROUTE TO DESIGN POINT 7
 163
              RK
                    5500
                           .018 .035
                                               0 TRAP
 164
 165
166
167
168
                     RUNOFF FROM B8
              KM
              BA
                   0.159
              LS
                            84.6
              UD
                   0.280
                                            HEC-1 INPUT
                                                                                                  PAGE 5
LINE
              ID......1.....2......3.....4......5.....6......7.....8......9......10
                    7
COMBINE 6-7,88
169
              KK
170
              KM
HC
171
172
                     7-8
173
                    ROUTE TO DESIGN POINT 8
174
                    3500
                           .018 .035
                                              0 TRAP
                                                                     2
175
                     C2
176
                    RUNOFF FROM C2
177
                   0.154
178
              LS
                           61.0
179
                   0.260
180
              KK
                  C2-8A
                   ROUTE TO DESIGN POINT 8A
3000 .035 .035
181
182
                                              0 TRAP
                                                             20
                                                                     2
183
              KK
184
              KM
                    RUNOFF FROM C3
185
                  0.162
186
              LS
                   0
                           67.3
187
                  0.300
188
189
              KM
HC
                    COMBINE C2-8A,C3
190
191
             KK
                  8A-8B
                  ROUTE 8A TO DESIGN POINT 8B
4000 .030 .035 0
192
             KM
193
              RK
                                                  TRAP
                                                            40
                                                                     2
194
                     C4
                    RUNOFF FROM C4
195
              KM
196
              BA
                  0.224
197
             LS
                      0
198
             UD
                  0.310
199
                  C4-88
200
             KM ROUTE C4 TO DESIGN POINT 8B
```

```
201
                       3000
                                .030
                                        .035
                                                        TRAP
                                                                    20
                                                                              2
  202
                 KK
                         C7
  203
                 KH
                        RUNOFF FROM C7
 204
205
                 BA
                     0.156
                LS
                          0
                               82.1
 206
                     0.290
 207
                KK
                KM
 208
                       COMBINE 8A-8B,C4-8B,C7
 209
                                                HEC-1 INPUT
                                                                                                            PAGE 6
LINE
                ID......1.....2.....3.....4......5.....6......7.....8.....9.....10
 210
211
                KK
                        C1
                KM
BA
LS
UD
                     RUNOFF FROM C1
0.165
 212
 213
                               67.5
 214
                     0.280
 215
                KK
                       C13
 216
                     RUNOFF FROM C13
0.125
0 69.8
                KM
 217
                BA
 218
                LS
                              69.8
 219
                ÜD
                     0.260
220
221
222
                KK
                        8C
               KM
                       COMBINE C1,C13
223
224
225
               KM
                       ROUTE 8C TO DESIGN POINT 8D
               RK
                      4500
                              .027 .035
                                                        TRAP
                                                                   40
                                                                             2
226
227
228
229
230
               KK
KM
BA
LS
                       C6
                       RUNOFF FROM C6
                     0.107
                         0
                              80.4
                     0.510
               UD
231
232
233
               KK
               KM
                       COMBINE 8C-8D,C6
               HC
234
235
236
               KK
                       COMBINE 88,80
               KM
               HC
237
238
239
               KK
                      ROUTE BE TO DESIGN POINT 8G
               KM
               RK
                     3000
                              .018 .035
                                                        TRAP
                                                                   50
                                                                            2
240
               KK
241
               KM
                      RUNOFF FROM C5
```

.

```
242
243
244
                    BA
                           0.227
                    LS
                                       67.6
                          0.430
 245
                    KK
                           C5-8F
 246
247
                             ROUTE C5 TO DESIGN POINT 8F
6300 .030 .035 0
                            6300
                                                                        TRAP
                                                                                                  2
 248
                             C8
RUNOFF FROM C8
                    KH
BA
LS
UD
 249
250
                          0.171
 251
                                0
                                       79.6
 252
                          0.300
                                                             HEC-1 INPUT
                                                                                                                                         PAGE 7
                    10.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
LINE
 253
 254
255
                             COMBINE C5-8F,C8
                    KM
HC
256
257
258
259
260
                             RUNOFF FROM C9
                    KM
                    BA
                          0.206
                    LS
                                       78.6
                    UD
                          0.330
261
262
263
                   KK
KM
BA
LS
UD
                             C10
                             RUNOFF FROM C10
                          0.106
264
265
                                      77.5
                          0.360
266
267
268
269
270
                             C11
                             RUNOFF FROM C11
                          0.125
                    BA
                   LS
                                      81.9
                   UD
                          0.320
271
272
273
                             COMBINE 8E-8G,8F,C9,C10,C11
                    KM
274
                    KK
                            8G-8
275
                             ROUTE 8G TO DESIGN POINT 8
276
                    RK
                                      .028
                           4000
                                                 .035
                                                                       TRAP
                                                                                                 2
277
278
279
280
281
282
283
284
                          CHAPEL HILLS EAST DETENTION POND NO 2
0 2.8 6.4 10.8 15.0
57.0 65.4 74.7 85.5 95.8
6602 6604.5 6607 6609.5 6612
6627 6629.5 6632 6634.5 6637
0 24 37 46 56
                    SV
                                                                                21.3
109.0
                                                                                            27.5
123.9
                                                                                                                              49.0
                    SV
                   SE
SE
                                                                       6612 6614.5
                                                                                             6617
                                                                                                     6619.5
                                                                                                                   6622 6624.5
                                                                       6637 6639.5
56 63
3000 4000
                                                                                             6642
                                                                                               70
                                                                                                           76
                                                                                                                      82
                              92
                                         97
                                                   596
                                                             1802
                                                                                             4500
```

```
285
                RS
                              ELEV
                                       6602
                        B5
               KM
BA
LS
UD
 287
                       RUNOFF FROM 85
 288
289
                     0.107
                         0
 290
                     0.190
 291
                KK
                     B5-8H
 292
                      ROUTE B5 TO DESIGN POINT 8H
4800 .035 .035 0
                KM
 293
                      4800
                                                  0
                                                       TRAP
                                                                            2
                                               HEC-1 INPUT
                                                                                                          PAGE 8
               ID......1.....2.....3......4......5......6......7......8.......9......10
LINE
294
295
296
297
               KK
                       RUNOFF FROM B7
               KM
               BA
                    0.297
               LS
                              80.4
298
               UD
                    0.340
299
300
                      COMBINE B5-8H, B7
               KM
301
               HC
302
303
304
305
                       В9
               KM
BA
                      RUNOFF FROM B9
                    0.169
               LS
                       0
306
               UD
                    0.320
307
308
               KK
                      COMBINE 7-8,8G-8,8H,89
               KM
309
               HC
310
               KK
                      8-9
311
312
               KM
                      ROUTE 8 TO DESIGN POINT 9
               RK
                     3000 .015 .035
                                                       TRAP
313
                      C14
314
315
              KM
BA
                      RUNOFF FROM C14
                    0.104
316
                        0
                             76.3
317
              UD
                    0.230
318
                  C14-9A
319
                     ROUTE C14 TO DESIGN POINT 9A
320
              RK
                     2500 .032 .035
                                                      TRAP
                                                                 10
                                                                           2
321
322
323
324
              KK
                      C15
              KM
                     RUNOFF FROM C15
              BA
LS
                   0.085
                       Ō
                             79.0
325
                   0.240
```

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326
327
328
                  KK
                           COMBINE C14-9A,C15
                  KM
                  HC
 329
330
                  KK
                        9A-9B
                          ROUTE 9A TO DESIGN POINT 9B
6800 .030 .035 0
                  KM
 331
                  RK
                         6800
                                                                TRAP
                                                                             50
                                                                                        2
332
333
                  KK
                          C17
                 KM
                          RUNOFF FROM C17
334
335
                        0.088
                                   78.8
                 LS
                       0.310
336
                 UD
                                                       HEC-1 INPUT
                                                                                                                            PAGE 9
LINE
                 ID......1......2......3......4......5......6......7.....8......9.....10
337
                 KK
                          C18
338
                 KM
                          RUNOFF FROM C18
339
                 BA
                        0.201
340
                 LS
                        0
                                   79.0
                       0.320
341
                 UD
342
343
344
                 KK
                 KM
HC
                         COMBINE 9A-9B, C17, C18
345
346
347
348
349
350
                        VOLUMES FROM CONTOURS DOMNSTREAM OF 11F
0 0.3 3.3 14.8 60.8
6814 6820 6830 6840 6850
0 50 90 100 110
                 KM
SV
                                                                          97.6
                                                                                   149.2
                 SE
SQ
RS
                                                                          6854
114
                                                                                    6858
                                                                                     118
                           1
                                  ELEV
                                            6814
351
352
353
354
                         C12
RUNOFF FROM C12
                 KK
                 KM
BA
                       0.112
                 LS
                                  81.2
355
                 UD
                       0.240
356
357
                 KK
                           D1
                         RUNOFF FROM D1
                 KM
358
                 BA
                       0.165
359
                 LS
                            0
                                  83.9
360
                 UD
                       0.250
361
362
363
364
365
                 KK
KM
BA
                         D2
RUNOFF FROM D2
                       0.199
                 LS
                                  83.9
                 UD
                       0.240
366
367
                 KK
KM
HC
                         COMBINE 8-9,98,C12,D1,D2
368
```

```
369
               KK
                     9-10
 370
               KH
                      ROUTE 9 TO DESIGN POINT 10
 371
               RK
                     1800
                             .017
                                    .035
                                                0
                                                     TRAP
 372
               KK
                      C19
 373
               KM
                      RUNOFF FROM C19
 374
               BA
                    0.112
 375
               LS
                             79.8
                       0
 376
               UD
                    0.370
                                             HEC-1 INPUT
                                                                                                      PAGE 10
LINE
               ID......1.....2......3......4......5......6......7.....8.......9......10
377
               KK
 378
                     RUNOFF FROM D4
               KM
 379
               BA
                   0.118
380
              LS
                       Ō
                             86.2
381
              UD
                   0.200
382
              KK
383
384
                     COMBINE 9-10,C19,D4
              KM
              HC
385
386
387
              KK
                   10-11
                     ROUTE 10 TO DESIGN POINT 11
              KM
              RK
                     1100 .018 .035
                                                     TRAP
                                                               80
388
389
390
              KK
                     RUNOFF FROM E1
              KH
              BA
                   0.093
391
              LS
                            74.0
392
              ÜD
                   0.330
393
              KK E1-11A
394
395
                     ROUTE E1 TO DESIGN POINT 11A
              KM
              RK
                    3000
                            .030
                                   .035
                                                    TRAP
                                                               20
                                                                        2
396
397
398
399
                      E3
              KM
BA
LS
                     RUNOFF FROM E3
                   0.146
400
              UD
                   0.260
401
              KK
                     11A
402
                     COMBINE E1-11A,E3
              KM
403
              HC
404
              KK 11A11B
405
                     ROUTE 11A TO DESIGN POINT 11B
3300 .030 .035 0
              KM
406
              RK
                    3300
                                               0 TRAP
                                                                       2
407
              KK
                      E5
408
              KH
                     RUNOFF FROM E5
409
              BA
                   0.127
```

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```
410
                                 84.8
 411
                       0.280
 412
                 KK
 413
                         COMBINE 11A11B,E5
                 KM
 414
 415
                      E2
RUNOFF FROM E2
0.090
                 KM
BA
 416
 417
 418
                 LS
                                 89.4
 419
                       0.240
                                                    HEC-1 INPUT
                                                                                                                     PAGE 11
LINE
                 ID......1.....2......3......4......5......6......7.....8.......9.....10
 420
421
                 KK E2-11C
                        ROUTE E2 TO DESIGN POINT 11C 3300 .030 .035 0
 422
                 RK
                                                       0
                                                             TRAP
                                                                                   2
 423
424
425
426
427
                 KM
BA
LS
                        RUNOFF FROM E4
                      0.154
                          0
                                 79.7
                      0.400
428
429
430
                 KK
                         COMBINE E2-11C,E4
431
432
433
                KM
                         COMBINE 118,11C
434
435
436
                 KK 11011F
                        ROUTE 11D TO DESIGN POINT 11F
2000 .036 .035 0
                        2000
                                                                        10
                                                                                   2
437
438
439
440
                        RUNOFF FROM E6
                 KH
                 BA
                      0.045
                LS
                                 75.8
441
                UD
                      0.210
442
443
444
                 KK E6-11E
                       ROUTE E6 TO DESIGN POINT 11E
4000 .030 .035 0
                                                             TRAP
                                                                         5
                                                                                  2
445
446
447
448
449
                         E8
                        RUNOFF FROM E8
                KM
                BA
                      0.124
                LS
                                 84.3
                UD
                      0.280
450
                KK
                        11E
```

```
451
                KM
                        COMBINE E6-11E,E8
 452
                НC
 453
454
455
456
457
                KK
                KH
BA
LS
                        RUNOFF FROM E7
                      0.118
                                84.5
                UD
                      0.240
 458
                KK
 459
                KM
                        COMBINE 11011F, 11E, E7
 460
                                                  HEC-1 INPUT
                                                                                                                PAGE 12
LINE
                KK
                         E9
462
463
464
465
               KM
BA
LS
UD
                        RUNOFF FROM E9
                     0.105
                         0
                                76.8
                     0.260
466
467
468
469
470
                KK
                        E10
                KM
                       RUNOFF FROM E10
                BA
                     0.094
                LS
                         0
                               79.8
                UD
                     0.270
471
                KK 11F11P
472
473
                KM
HC
                        COMBINE 11F,E9,E10
474
475
476
477
478
479
                      VOLUMES FROM CONTOURS DOWNSTREAM OF 11F
0 0.3 3.3 14.8 60.8
6814 6820 6830 6840 6850
0 50 90 100 110
                KM
                                        3.3
6830
90
6814
                SV
                                                                   97.6
                                                                           149.2
                SE
                                                                   6854
114
                                                                            6858
                SQ
                                                                             118
                RS
                               ELEV
480
                KK 11P-11
481
                KM
                       ROUTE 11P TO DESIGN POINT 11
482
                RK
                      3500
                               .028
                                        .035
                                                          TRAP
                                                                     10
                                                                               2
483
484
485
486
487
                KK
                       E11
                KM
                       RUNOFF FROM E11
                BA
                     0.100
               LS
                               75.0
               UD
                     0.260
488
               KK
                     11P11
489
                       COMBINE 11P-11,E11
                KM
490
                HC
                         2
491
               KK
492
               KM
                       RUNOFF FROM C16
```

```
493
494
495
                     0.141
                 LS
                                76.9
                UD
                     0.280
 496
497
                KK C1611G
                        ROUTE C16 TO DESIGN POINT 11G
 498
                       4800
                               .030
                                       .035
                                                    0 TRAP
 499
                KK
                       C20
                       RUNOFF FROM C20
 500
 501
                     0.113
 502
                     0.330
                LS
                               80.2
 503
                                                 HEC-1 INPUT
                                                                                                              PAGE 13
LINE
                ID......1......2......3......4......5......6......7.....8......9......10
504
                KK
505
506
                       COMBINE C16-11G, C20
                KM
                         2
507
                KK
508
509
                KM
HC
                       COMBINE 10-11, 11F11P, 11G
510
                     11-12
511
                KM
RK
                      ROUTE 11 TO DESIGN POINT 12
5500 .018 .035 0
512
                      5500
                                                         TRAP
                                                                    50
                                                                             2
513
                       G1
514
515
                KM
BA
                       RUNOFF FROM G1
                     0.180
516
                LS
                         0
517
                     0.260
518
               KK G1-12A
519
                      ROUTE G1 TO DESIGN POINT 12A
2400 .023 .035 0
520
                                                         TRAP
                                                                    10
                                                                             2
521
522
523
               KM
BA
                       RUNOFF FROM G3
                     0.183
524
               LS
                        0
                              78.5
525
               UD
                     0.230
526
527
                      COMBINE G1-12A,G3
528
529
530
531
532
533
                       G2
                    RUNOFF FROM G2
0.107
0 80.9
               BA
LS
                              80.9
                    0.270
```

```
534
535
536
                 KK G2-12B
                        ROUTE G2 TO DESIGN POINT 12B
                 KM
                 RK
                        2800
                                .042
                                        .013
                                                            CIRC
 537
538
539
                 KK
                 KH
                        RUNOFF FROM G4
                 BA
                      0.132
 540
                 LS
                           0
                                87.0
 541
                 UD
                      0.230
 542
543
544
                KK
KM
HC
                        COMBINE 12A, G2-12B, G4
                                                  HEC-1 INPUT
                                                                                                                 PAGE 14
LINE
                ID......1......2......3......4......5......6......7.....8......9.....10
 545
                KK 12B12C
546
547
                KM
RK
                       ROUTE 12B TO DESIGN POINT 12C 2500 .025 .015 0
                                         .015
                                                     0 TRAP
                                                                       10
                                                                                2
548
549
550
551
                         G5
                KM
                        RUNOFF FROM G5
                BA
                      0.118
                LS
                          0
                                76.5
 552
                UD
                      0.200
553
554
555
                KK
                         G6
                KM
                        RUNOFF FROM G6
                BA
                      0.139
556
557
                LS
                         0
                                80.4
                UD
                      0.300
558
559
                KK
                        12C
                KM
                        COMBINE 128-12C, G5, G6
560
                HC
                         3
561
562
563
564
565
566
                KK
                      REVISED DETENTION POND AT 12CP
                KM
                SV
                          0
                                1.0
                                          4.2
                                                 11.5
                                                           24.5
                                                                    46.1
                                                                             65.7
                SE
                       6710
                               6715
                                         6720
56
                                                 6725
70
                                                           6730
82
                                                                    6736
92
                                                                             6740
                SQ
                          0
                                 37
                                                                              720
                RS
                               ELEV
                                         6710
567
                KK 12CP12
568
569
                       ROUTE 12CP TO DESIGN POINT 12
2050 .038 .035 0
               KM
               RK
                       2050
                                                          TRAP
                                                                      15
                                                                                2
570
               KK
                        D3
571
572
               KM
                       RUNOFF FROM D3
                BA
                     0.127
573
               LS
                                93.0
574
                     0.220
               UD
575
               KK D3-12D
```

.

```
576
577
                       ROUTE D3 TO DESIGN POINT 12D 2300 .037 .035 0
                      2300
                                                        TRAP
                                                                   5
                                                                            2
 578
579
                        D5
                KM
BA
LS
                       RUNOFF FROM D5
                     0.128
 580
 581
582
                               91.8
                     0.280
                UD
 583
584
585
                KK
KM
HC
                       COMBINE D3-12D,D5
                                                HEC-1 INPUT
                                                                                                           PAGE 15
LINE
                ID......1......2......3......4......5......6......7.....8......9.....10
586
587
588
589
                KM
                       RUNOFF FROM F1
                BA
                     0.137
                LS
                      0
                              83.1
 590
                     0.280
 591
               KM
BA
LS
UD
 592
                       RUNOFF FROM G7
 593
                    0.171
 594
                              81.6
 595
                    0.250
 596
                       RUNOFF FROM G8
 597
               KM
 598
               BA
                    0.081
 599
               LS
                              83.0
 600
               UD 0.190
 601
               KK
                       H21
 602
               KM
                       RUNOFF FROM H21
 603
               BA
                    0.081
604
               LS
                              92.0
605
               UD
                    0.240
606
607
               KM
                       COMBINE 11-12,12C-12,12D,F1,G7,G8,H21
608
               HC
609
610
                      ROUTE 12 TO DESIGN POINT 13
5400 .015 .035 0
611
               RK
                     5400
                                                       TRAP
                                                                  60
                                                                            2
612
                       H5
613
               KM
                       RUNOFF FROM H5
614
                    0.362
               BA
615
               LS
                              89.5
616
                    0.230
617
               KK H5-13B
```

```
618
                     ROUTE H5 TO DESIGN POINT 138
1800 .025 .035 0
 619
               RK
                     1800
                                                     TRAP
                                                                       2
 620
               KK
 621
               KM
                      RUNOFF FROM H6
 622
               BA
                    0.214
 623
               LS
                       0
                             88.0
 624
               UD
                   0.280
 625
                  H6-13B
626
627
               KH
                     ROUTE H6 TO DESIGN POINT 13B
               RK
                    1800
                          .025
                                    .035
                                               0
                                                    TRAP
                                                                       2
                                            HEC-1 INPUT
                                                                                                    PAGE 16
LINE
               628
629
630
631
632
               KK
              KM
BA
                     RUNOFF FROM H7
                   0.140
              LS
                       0
                            85.3
              UD
                   0.230
633
              KK
KM
HC
634
635
                     COMBINE H5-13B, H6-13B, H7
636
637
              KK 13813C
                     ROUTE 13B TO DESIGN POINT 13C
2400 .020 .035 0
              KM
638
              RK
                    2400
                                               0
                                                    TRAP
                                                              10
                                                                       2
639
640
641
642
643
              KK
                     RUNOFF FROM H8
              KM
              BA
                   0.125
              LS
                       ō
                            80.9
              UD
                   0.230
644
645
646
              KK
                     COMBINE 13B13C, H8
              KM
              HC
647
              KK
                      H2
648
              KM
                     RUNOFF FROM H2
649
              BA
                   0.106
650
              LS
                       0
                            88.0
651
              UD
                   0.230
652
              KK
                  H2-130
653
              KM
                     ROUTE H2 TO DESIGN POINT 13D
654
              RK
                          .013 .035
                                                    TRAP
                                                              10
                                                                       2
655
656
657
658
              KK
                    RUNOFF FROM H1
              KM
              BA
                   0.169
              LS
                            87.0
                       0
659
                   0.200
```

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660
 661
                KM
HC
                       COMBINE H2-130,H1
 662
 663
664
                KK 13013E
                       ROUTE 130 TO DESIGN POINT 13E
 665
                RK
                      2400
                              .015
                                      .035
                                                  0
                                                                  10
                                                                           2
 666
667
668
669
670
               KM
                    RUNOFF FROM H4
0.128
0 80.0
               BA
               LS
                              80.0
               ÜĎ
                    0.220
                                               HEC-1 INPUT
                                                                                                         PAGE 17
LINE
               ID......1.....2.....3......4......5......6......7......8.......9......10
671
               KK
                      13E
672
               KM
                      COMBINE 13D13E, H4
673
               HC
674
               KK
                      H16
675
                      RUNOFF FROM H16
676
               BA
                    0.106
677
               LS
                             83.8
678
               UD
                    0.220
679
               KK
                      H17
680
               KM
BA
                      RUNOFF FROM H17
681
                    0.102
682
               LS
                             81.2
683
                    0.200
684
685
               KK
               KM
                      COMBINE H16,H17
686
687
              KK 13F13G
688
689
                     ROUTE 13F TO DESIGN POINT 13G
3000 .022 .035 0
               RK
                     3000 .022
                                                      TRAP
                                                                          2
690
691
692
693
              KK
                      H18
                     RUNOFF FROM H18
              KM
              BA
                   0.173
              LS
                            80.5
694
              UD
                   0.200
695
              KK
696
                     COMBINE 13F13G,H18
              KM
HC
697
698
              KK
                      Н3
699
                     RUNOFF FROM H3
              KM
700
              BA
                   0.141
```

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701
                  LS
                                 80.2
  702
                  UD
                       0.290
  703
                  KK
  704
705
                         COMBINE 13C, 13E, 13G, H3
                  KM
                  HC
  706
                 KK
                      13H131
  707
                         ROUTE 13H TO DESIGN POINT 131
1250 .018 .035 0
                 KM
  708
                 RK
                        1250
                                                                      20
                                                                                2
  709
                 KK
                          H9
  710
                 KM
                        RUNOFF FROM H9
  711
                 BA
                      0.173
  712
                 LS
                           0
                                80.3
  713
                      0.240
                 UD
                                                  HEC-1 INPUT
                                                                                                               PAGE 18
                 ID......1.....2......3......4......5.....6......7......8........9......10
LINE
 714
                KK
                        131
 715
                KM
                        COMBINE 13H131, H9
 716
 717
                    13113J
 718
                        ROUTE 131 TO DESIGN POINT 13J
1800 .015 .035 0
 719
                                                    0 TRAP
                                                                               2
 720
721
722
723
724
                        H10
                        RUNOFF FROM H10
                KN
                      0.064
                BA
                LS
                               84.8
                     0.190
725
726
727
728
                KK
                        H19
                KM
                        RUNOFF FROM H19
                BA
                      0.118
                LS
                         0
                               79.4
729
                     0.240
                ÜD
730
                KK
731
                       COMBINE 13113J, H10, H19
                KH
732
                HC
                        3
733
734
735
736
737
                KK
                       H11
               KM
BA
LS
                       RUNOFF FROM H11
                     0.144
                               92.0
               UD
                     0.240
738
739
740
741
742
               KK
                       H12
               KM
BA
LS
                       RUNOFF FROM H12
                     0.163
                         0
                               85.5
               UD
                     0.240
```

ź.

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743
744
745
               KK
                       COMBINE H11,H12
 746
               KK 13K13L
 747
                       ROUTE 13K TO DESIGN POINT 13L
 748
               RK
                      1500
                              .027
                                     .035
                                                 0 TRAP
                                                                           2
 749
                       H13
750
751
752
753
                      RUNOFF FROM H13
               BA
                    0.128
               LS
                        0
                              86.8
                    0.250
                                              HEC-1 INPUT
                                                                                                         PAGE 19
LINE
               ID......1......2......3......4......5......6......7.....8.......9.....10
754
755
756
               KM
                      COMBINE 13K13L,H13
757
               KK 13L13M
758
                     ROUTE 13L TO DESIGN POINT 13M
759
                     2400
                            .023
                                     .035
                                                      TRAP
760
                      H14
RUNOFF FROM H14
761
762
763
                    0.115
               LS
                             90.7
764
                    0.220
               UD
765
766
767
                      COMBINE 13L13M, H14
768
769
770
771
                      RUNOFF FROM H23
               BA
                    0.105
               LS
                             78.0
772
               UD
                    0.180
773
                      COMBINE 13J, 13M, H23
774
               KM
775
               HC
776
777
778
779
780
              KM
                    EXISTING CONTOURS AT 13N - ROUGHLY
               SV
                             3.6
                                     26.6
                                               32 103.1
                                                             270.6
               SE
                     6622
                             6630
                                     6640
                                                      6650
                                                              6660
5124
              SQ
                                      135
                                               136
                                                      1765
781
              RS
                             ELEV
                                     6622
782
              KK 13N130
783
                      ROUTE 13N TO DESIGN POINT 130
```

```
784
                      2800
                               .020
                                        .035
                                                       TRAP
                                                                  20
                                                                           2
  785
                       H15
                KM
BA
LS
UD
  786
                       RUNOFF FROM H15
  787
                     0.083
  788
                               90.4
  789
                     0.280
 790
                KK
                       H20
 791
                KM
BA
LS
                       RUNOFF FROM H20
 792
793
                     0.071
                              69.3
 794
                UD
                     0.180
                                               HEC-1 INPUT
                                                                                                         PAGE 20
               ID......1.....2......3......4......5......6......7......8.......9......10
LINE
 795
                KK
                       130
 796
               KM
                      COMBINE 13N130, H15, H20
 797
 798
                KK
                       K1
 799
               KM
                      RUNOFF FROM K1
 800
               BA
                    0.169
 801
               LS
                        0
                             85.8
 802
               UD
                    0.290
803
804
805
               KK
KM
BA
LS
                       K2
                      RUNOFF FROM K2
                    0.187
806
807
                        0
                             84.9
               UD
                    0.220
808
809
               KK
                      13P
                      COMBINE K1,K2
               KM
810
               HC
811
               KK 13P13Q
812
               KM
                     ROUTE 13P TO DESIGN POINT 13Q
813
               RK
                     2300
                             .012
                                   .035
                                                 0 TRAP
                                                                 20
                                                                          2
814
              KK
                       K3
815
              KM
                     RUNOFF FROM K3
816
                   0.098
              BA
              LS
817
                             84.6
818
                   0.210
819
              KK
KM
820
821
822
823
                     RUNOFF FROM K4
              BA
                   0.147
              LS
                             84.9
                   0.270
              UD
824
825
              KK
                     COMBINE 13P13Q,K3,K4
              KM
```

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```
826
               HC
                        3
 827
                   13Q13R
 828
829
                      ROUTE 139 TO DESIGN POINT 13R
               RK
                     2000
                              .015
                                      .035
                                                 0
                                                      TRAP
                                                                 20
                                                                          2
 830
               KK
                       J1
 831
832
               KM
                      RUNOFF FROM J1
               BA
                    0.213
 833
               LS
                        0
                             79.3
 834
               UD
                    0.320
                                              HEC-1 INPUT
                                                                                                        PAGE 21
LINE
               10.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
 835
               KK J1-13S
836
837
                      ROUTE J1 TO DESIGN POINT 13S
3100 .030 .012 0
               KM
               RK
                     3100
                                                      CIRC
                                                               3.5
                                                                          0
 838
               KK
 839
               KH
                      RUNOFF FROM J2
 840
               BA
                    0.085
 841
               LS
                       0
                             88.4
 842
               UD
                    0.310
843
               KK
                      COMBINE J1-138,J2
844
845
               KM
846
               KK
                      H22
847
848
               KH
                      RUNOFF FROM H22
               BA
                    0.178
849
               LS
                      0
                             88.7
850
               UD
                    0.230
851
               KK
852
               KM
                      RUNOFF FROM J3
              BA
LS
UD
853
                    0.132
854
                      0
                             88.8
855
                    0.220
856
               KK
857
                     COMBINE 12-13,130,13913R,135,H22,J3
               KH
858
859
                    13-14
860
                     ROUTE 13 TO DESIGN POINT 14
2500 .015 .035 0
861
               RK
                     2500
                                                      TRAP
                                                               100
                                                                         2
862
863
864
                      L1
              KM
BA
LS
UD
                      RUNOFF FROM L1
                   0.145
865
                        0
                             82.2
866
                    0.230
```

```
867
               KK L1-14A
 868
                      ROUTE L1 TO DESIGN POINT 14A
 869
                     1700
                            .030
                                    .012
                                                    CIRC
                                                             3.5
 870
               :KK
 871
               KM
                      RUNOFF FROM L2
 872
               BA
                   0.147
 873
               LS
                      0
                            73.5
 874
               UD
                   0.330
                                            HEC-1 INPUT
                                                                                                   PAGE 22
LINE
              ID......1......2......3......4......5......6......7......8......9.....10
 875
              KK
 876
              KM
                     COMBINE L1-14A, L2
877
              HC
878
              KK
                      01
879
              KM
                     RUNOFF FROM 01
880
              BA
                   0.113
881
              LS
                      0
                            85.5
882
              UD
                   0.250
883
              KK 01-14B
884
                     ROUTE O1 TO DESIGN POINT 14B
885
                    3700
                           .021
                                    .012
                                                    CIRC
                                                             4.0
886
887
              KM
                     RUNOFF FROM 02
888
              BA
                   0.122
889
              LS
                      0
                           85.7
890
              UD
                   0.260
891
              KK
892
                     COMBINE 01-148,02
              KM
893
894
              KK
                    14AB
895
                     COMBINE 14A, 14B
896
              HC
897
898
              KH
                    RUNOFF FROM M1
899
                  0.090
              BA
900
              LS
                           89.1
901
              UD
                  0.210
902
903
                 M1-14C
              KM
                    ROUTE M1 TO DESIGN POINT 14C
904
              RK
                    3000
                           .045
                                   .012
                                              0
                                                   CIRC
905
             KK
KM
BA
906
907
                    RUNOFF FROM M2
                  0.205
908
             LS
                           79.9
```

```
909
                      0.240
 910
                        14C
COMBINE M1-14C,M2
2
 911
 912
                 HC
 913
                 KK
                        COMBINE 13-14,14AB,14C
 914
                 KM
 915
                                                  HEC-1 INPUT
                                                                                                                 PAGE 23
LINE
                 ID......1......2......3......4......5......6......7......8......9......10
 916
                KK
                      14-15
 917
                        ROUTE 14 TO DESIGN POINT 15
1600 .015 .035 0
                KM
 918
                RK
                       1600
                                                           TRAP
                                                                      150
                                                                                 2
 919
                         M5
                     RUNOFF FROM M5
0.102
0 76.0
 920
 921
 922
                LS
                                76.0
 923
                ŪĎ
                      0.220
924
925
926
927
928
                        P1
                        RUNOFF FROM P1
                KM
                BA
                      0.122
                LS
                          Ō
                                83.7
                UD
                      0.260
 929
                KK
                         15
 930
                        COMBINE 14-15,M5,P1
                KM
 931
                HC
 932
                KK
                      15-16
933
934
                      ROUTE 15 TO DESIGN POINT 16
2300 .015 .035 0
                KM
                                                           TRAP
                                                                     150
                                                                                 2
935
936
937
938
                KM
                        RUNOFF FROM M3
                      0.160
                BA
                LS
                                81.3
939
                UD
                      0.270
940
                KK
                     M3-16
941
                       ROUTE M3 TO DESIGN POINT 16
1200 .057 .012 0
942
                                                           CIRC
                                                                     3.0
                                                                                 0
943
944
945
946
947
                KM
                        RUNOFF FROM M4
                BA
                     0.229
                LS
                                73.7
                UD
                     0.250
948
949
                       ROUTE M4 TO DESIGN POINT 16B
```

```
950
                      2400
                               .020
                                        .015
                                                        TRAP
                                                                    10
                                                                             2
 951
952
                       M6
RUNOFF FROM M6
                KM
BA
LS
 953
954
                     0.101
                         Ô
                               79.5
 955
                UD
                     0.220
                                                HEC-1 INPUT
                                                                                                            PAGE 24
LINE
                ID......1.....2.....3.....4......5.....6......7.....8.....9.....10
 956
                KK
                       168
 957
                KM
                       COMBINE M4-16B, M6
 958
                HC
 959
               KK
                       RUNOFF FROM P2
 960
               KM
 961
               BA
                     0.084
 962
               LS
                              73.5
                         0
 963
               UD
                     0.280
964
               KK
                   P2-16C
965
                       ROUTE P2 TO DESIGN POINT 16C
2300 .050 .012 0
               KM
966
               RK
                      2300
                                     .012
                                                        CIRC
                                                                  4.0
967
               KK
                        P3
968
               KH
BA
                       RUNOFF FROM P3
969
                    0.200
970
               LS
                        0
                             79.9
971
                     0.280
972
973
               KK
                       16C
               KM
                       COMBINE P2-16C,P3
974
               HC
975
               KK
976
                       COMBINE 15-16,168,16C,M3-16
               KM
977
               HC
978
               KK
                    16-17
979
                     ROUTE 16 TO DESIGN POINT 17
3100 .014 .035 0
               KN
980
               RK
                                                       TRAP
                                                                 100
981
982
983
984
985
               KK
                      T2
RUNOFF FROM T2
               KM
               BA
                    0.159
               LS
                        0
                              72.3
               UD
                    0.200
986
               KK T2-17A
987
               KH
                      ROUTE T2 TO DESIGN POINT 17A
000 .048 .035 0
988
                    1000
               RK
                                                       TRAP
                                                                   5
                                                                            2
989
               KK
990
               KN
                      RUNOFF FROM T3
```

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```
991
              BA
LS
UD
                   0.117
 992
                           76.7
 993
                  0.220
 994
995
              KK
KM
HC
                    17A
                    COMBINE T2-17A,T3
 996
                                          HEC-1 INPUT
                                                                                             PAGE 25
LINE
              997
              KK 17A-17
 998
                    ROUTE 17A TO DESIGN POINT 17
000 .030 .012 0
 999
                  1000
                                                 CIRC
                                                         5.0
                                                                  0
1000
              KK
                    T1A
1001
              KM
                    RUNOFF FROM T1A
1002
              BA
                  0.089
1003
              LS
                   0
                          82.3
1004
                  0.200
              UD
1005
              KK
1006
                    RUNOFF FROM ST
              KM
1007
              BA
                  0.131
1008
              LS
                   0
                          78.5
1009
              UD
                  0.200
1010
              KK
                     S2
1011
              KM
                    RUNOFF FROM S2
1012
              BA
                  0.134
1013
             LS
                          82.4
1014
                  0.250
1015
1016
                    COMBINE 16-17,17A-17,T1A,S1,S2
              KM
1017
              HC
1018
              KK
                  17-18
1019
                   ROUTE 17 TO DESIGN POINT 18
2400 .018 .035 0
             KM
1020
             RK
                                                TRAP
                                                          70
                                                                  2
1021
                    T4A
1022
             KM
                    RUNOFF FROM T4A
1023
                  0.095
             BA
1024
             LS
                    0
1025
             UD
                  0.230
1026
             KK T4A18A
1027
                   ROUTE TAA TO DESIGN POINT 18A
1028
             RK
                   1200
                         .033
                                .012
                                            0
                                                CIRC
                                                        3.5
                                                                  0
1029
1030
                    T1B
                    RUNOFF FROM T1B
             KM
             BA
1031
                  0.127
1032
                     0
                          76.1
```

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1033
                UD
                     0.230
 1034
                KK
                KM
                       COMBINE TAATSA,TTB
 1035
 1036
                                              HEC-1 INPUT
                ID......1......2......3......4......5......6......7......8......9......10
LINE
1037
                KK
1038
               KM
BA
                       RUNOFF FROM S3
1039
                    0.183
1040
               LS
                       Ó
                              79.1
1041
                     0.250
1042
                KK
1043
                      COMBINE 17-18,18A,S3
                KM
1044
                HC
1045
                KK
1046
                KM
                      ROUTE 18 TO DESIGN POINT 19
3700 .020 .035 0
1047
                RK
                     3700
                                                      TRAP
                                                                40
                                                                         2
1048
               KK
                       Q1
1049
               KM
                      RUNOFF FROM Q1
1050
               BA
                    0.102
1051
               LS
                        0
                             79.8
1052
               ÜD
                    0.210
1053
               KK
1054
                      ROUTE Q1 TO DESIGN POINT 19A
               KH
1055
               RK
                     2200
                             .048
                                    .012
                                                      CIRC
                                                               3.5
1056
               KK
                       Q2
1057
               KM
                      RUNOFF FROM Q2
1058
               BA
                    0.201
1059
               LS
                        0
                             76.2
1060
               UD
                    0.280
1061
               KK
                      19A
1062
               KM
HC
                      COMBINE Q1-19A,Q2
1063
1064
1065
               KK
                       Q3
               KJ4
                      RUNOFF FROM Q3
1066
1067
               BA
                    0.078
               LS
                        ō
                             79.0
1068
               UD
                    0.290
1069
               KK
                      198
1070
               KM
                      COMBINE 19A,Q3
1071
               HC
                        2
1072
               KK 19819C
1073
               KM
                      ROUTE 198 TO DESIGN POINT 19C
```

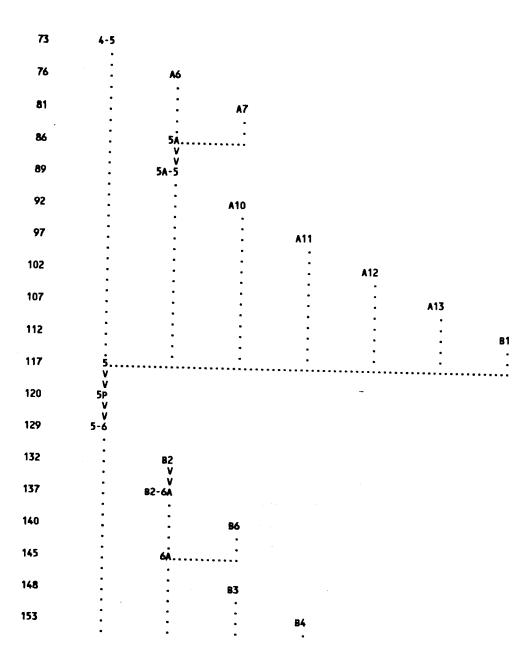
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1074
                 RK
                       2800
                                 .029
                                         .015
                                                          TRAP
                                                                     10
                                                                              2
 1075
                 KK
                         94
 1076
                 KM
BA
                        RUNOFF FROM Q4
 1077
                      0.128
 1078
                 LS
                          Ō
                                86.2
 1079
                 Ū
                      0.250
                                                 HEC-1 INPUT
                                                                                                             PAGE 27
                 ID......1.....2......3......4......5......6......7......8......9......10
 LINE
 1080
                KK
KM
HC
                        19C
 1081
                        COMBINE 19819C,Q4
 1082
1083
1084
                 KK
                         Q5
                KM
                        RUNOFF FROM Q5
1085
                BA
                      0.153
1086
                LS
                        0
                               73.5
1087
                UD
                      0.250
1088
1089
1090
                KK
KM
HC
                        190
                        COMBINE 19C,Q5
1091
                KK 19019E
1092
                       ROUTE 19D TO DESIGN POINT 19E
3400 .017 .015 0
                KM
1093
                RK
                       3400
                                                         TRAP
                                                                    10
                                                                             2
1094
                KK
                        96
1095
                KM
                       RUNOFF FROM Q6
1096
                BA
                     0.210
1097
                LS
                        0
                               87.7
1098
                UD
                     0.240
1099
                KK
                       19E
1100
                       COMBINE 19019E,96
                KM
1101
                HC
1102
                KK
                    19E19F
1103
                       ROUTE 19E TO DESIGN POINT 19F
2400 .020 .015 0
                KM
1104
                RK
                      2400
                                                        TRAP
                                                                   15
                                                                             2
               KK
KM
BA
LS
UD
1105
                        97
1106
                       RUNOFF FROM Q7
                     0.182
1107
1108
                               82.2
1109
                     0.230
1110
               KK
KM
HC
                       19F
1111
                       COMBINE 19E19F,Q7
1112
1113
                KK
                       T4B
1114
               KM
                       RUNOFF FROM T4B
```

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1115
                     0.075
  1116
                LS
                         0
                              85.9
  1117
                UD
                     0.230
 1118
                KK T4B19G
 1119
                      ROUTE TAB TO DESIGN POINT 19G
                KN
 1120
                      2400
                              .015
                                   .012
                                                0 CIRC
                                                              4.0
                                              HEC-1 INPUT
                                                                                                     PAGE 28
                ID......1.....2.....3.....4.....5.....6......7.....8.....9......10
 LINE
 1121
                KK
                      W1
RUNOFF FROM W1
 1122
                KM
 1123
                BA
                     0.209
 1124
                LS
                        0
                              82.2
 1125
                     0.190
 1126
                KK
                      19G
                KM
 1127
                      COMBINE T4B19G, W1
 1128
               KK
KM
BA
LS
UD
 1129
 1130
                      RUNOFF FROM Q8
 1131
                    0.084
 1132
                        Ö
                             80.4
1133
                    0.220
1134
               KK
                       19
1135
               KH
                      COMBINE 18-19, 19F, 19G, Q8
1136
               HC
1137
               KK
                    19-20
1138
                     ROUTE 19 TO DESIGN POINT 20
2400 .017 .035 0
               KM
1139
               RK
                                                    TRAP
                                                              30
                                                                       2
1140
               KK
1141
                      RUNOFF FROM W2
               KM
1142
               BA
                    0.125
1143
               LS
                       0
                             88.3
1144
               UD
                    0.240
1145
               KK
1146
               KH
                      COMBINE 19-20, W2
1147
               HC
                       2
1148
               KK
                    20-21
1149
               KM
                     ROUTE 20 TO DESIGN POINT 21
1150
               RK
                     1800
                            .016
                                  .035
                                                    TRAP
                                                              50
                                                                       2
1151
               KK
1152
               KM
                     RUNOFF FROM W3
1153
               BA
                   0.105
1154
              LS
                       0
                            92.7
                   0.200
1155
```

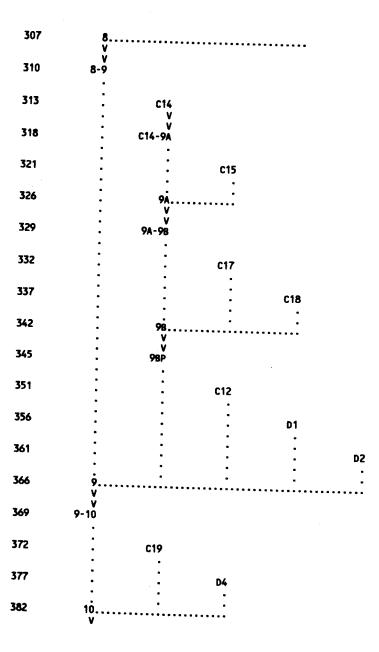
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1156
1157
                         KK
KM
HC
                                 21
                                COMBINE 20-21,V2,W3
          1158
          1159
                               V2
RUNOFF FROM V2
                         KM
BA
          1160
                              0.142
          1161
          1162
                         LS
                                       92.8
          1163
                         UD
ZZ
                              0.250
          1164
               SCHEMATIC DIAGRAM OF STREAM NETWORK
INPUT
LINE
           (V) ROUTING
                               (--->) DIVERSION OR PUMP FLOW
 NO.
           (.) CONNECTOR
                               (<---) RETURN OF DIVERTED OR PUMPED FLOW
   7
  25
             1-2
  28
  33
  36
             2-3
  39
                          A2
  44
  49
                                                   A5
  54
 57
            3-4
  60
 65
                                      A9
  70
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| 158 | | •••••• | • | |
|-----|----------|-----------------|-----------------|-----------|
| 161 | v 6-7 | | | |
| 164 | • | 88 | | |
| 169 | · 7 | • | | |
| 172 | 7-8 | | | |
| 175 | • | C2 | | |
| 180 | : | V V C2-8A | | |
| 183 | • | • | c3 | |
| 188 | • | 8Å | | |
| 191 | • | V V 88-88 | | |
| 194 | • | • | C4 | |
| 199 | • | • | V V C4-8B | |
| 202 | • | : | • | C7 |
| 207 | • | 88 | | : |
| 210 | • | • | C1 | ••••• |
| 215 | : | : | • | |
| 220 | • | • | : 8ċ | C13 |
| 223 | • | • | V V 8C-80 | ••••• |
| 226 | • | • | • | |
| | • | • | • | C6 |

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| 231 | • | • | 8 0 | • | | |
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| 234 | • | 8Ė | • | | | |
| E-5-7 | • | | ***** | | | |
| | • | V | | | | |
| 237 | • | V | | | | |
| 237 | • | 8E-8G | | | - | |
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| 240 | • | • | C5 V | | | |
| • | • | • | ٧ | | | |
| 2/5 | • | • | V C5-8F | | | |
| 245 | • | • | C5-8F | | | |
| | • | • | • | | | |
| 242 | • | • | | | | |
| 248 | • | • | | C8 | | |
| | - | • | | | | |
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| 253 | • | • | 8F | | | |
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| 256 | | | | C9 | | |
| | | • | | - | | |
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| 261 | | • | | • | C10 | |
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| 266 | - | • | • | • | • | |
| | - | • | • | • | • | C11 |
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| 271 | • | 8g | • | • | • | - |
| | • | V | • • • • • • • • • • • • • • | | • • • • • • • • • • • | • • • • • • • • |
| | • | v | | | | |
| 274 | • | 8G-8 | | | | |
| | • | V V | | | | |
| | • | v | | | | |
| 277 | • | 8G-8P | | | | |
| | • | OG-OP | | | | |
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| 286 | • | • | AP | | | |
| | • | • | 85 V | | | |
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| 291 | • | • | V | | | |
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| 294 | • | • | • | | | |
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| 299 | • | • | • | • | | |
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| 302 | • | • | • | | | |
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| 385 | 10-11 | | | |
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| 388 | : | E1 V | | |
| 393 | • | V E1-11A | | |
| 396 | : | : | E3 | |
| 401 | • | 11Å | • | |
| 404 | : | 11A11B | | |
| 407 | • | : | E5 | |
| 412 | : | 118 | | |
| 415 | : | • | E2 V | |
| 420 | • | • | V E2-11C | |
| 423 | • | • | • | £4 |
| 428 | · · | : | 11¢ | • |
| 431 | : | 110 | • | |
| 434 | : | 11D11F | | |
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| 442 | : | • | V E6-11E • | |
| 445 | : | • | : | E8 |
| 450 | : | • | 11É | ••••• |
| 453 | : | • | : | E7 |

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| 458 | • | 11F | ••••••• | |
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| 461 | : | • | E9 | |
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| 496 | | : | V C1611G | |
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| 499 | • | • | • | C20 |
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| 504 | • | • | 11G | • |
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| 507 | 11 | | • | |
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| 510 | Ý 11-12 | | | |
| 210 | 11-12 | | | |
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| 513 | • | 61 | | |
| | • | G1 V | | |
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| 518 | • | G1-12A | | |
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| E21 | • | • | | |
| 521 | • | | 63 | |
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| 526 | • | 12Å | • | |
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| 529 | | | G2 | | | | |
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| | • | | G2 V | | | | |
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| 534 | • | • | G2-12B | | | | |
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| 537 | • | • | • | | | | |
| 331 | • | • | • | G4 | | | |
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| 542 | • | 128 | • | • | | | |
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| 545 | | V 12812C | | | | | |
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| 548 | | • | G5 | | | | |
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| 553 | • | • | • | | | | |
| 223 | • | • | • | G6 | | | |
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| 558 | • | 12ċ | • | • | | | |
| | • | 126 V | • • • • • • • • • • • • • • | • • • • • • • | | | |
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| 561 | • | 12CP | | | | | |
| | | V | | | | | |
| | • | V 12CP12 | | | | | |
| 567 | | 12CP12 | | | | | |
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| 570 | • | • | | | | | |
| 3.0 | • | • | D3 V | | | | |
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| 575 | • | • | V 07.425 | | | | |
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| 578 | | • | • | D5 | | | |
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| 612 | • | H5 | | | |
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| 620 | • | : | H6 | | |
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| 625 | • | • | V H6-138 | | |
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| 633 | | 138 | | • | |
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| 636 | • | V 170170 | | | |
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| 639 | • | • | н8 | | |
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| 644 | : | 13C | • | | |
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| 647 | • | • | | | |
| 047 | • | • | H2 | | |
| | • | • | V | | |
| 652 | • | : | H2-13D | | |
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| 655 | • | • | . • | | |
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| 671 | • | • | 13Ė | • | |
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| 674 | • - | • | • | W4.4 | |
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| 470 | • | • | • | • | |
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| 404 | | : | • | • | • |
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| 687 | • | • | • | V 13F13G | |
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| 690 | • | • | • | : | |
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| 695 | • | • | : | 13G | • |
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| 706 | • | 13H13I | | | |
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| 709 | • | : | Н9 | | |
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| 720 | | • | H10 | | |
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| 770 | • | : | • | • | |
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| 743 | | : | • | • ; | |
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