FINAL REPORT
STORM WATER MANAGEMENT PLAN
SUMMARY HYDROLOGIC PRINTOUTS
VOLUME 3 OF 3



for:

Mr. William Bray, P.E.
Director of Public Works
Town of York
186 York Street
York, ME 03904-1314

Prepared by:

EDWARDS AND KELCEY
222 St. John Street, Suite 314
Portland, ME 04102
Tel (207) 828-1272 Fax. (207) 774-6907

July 7, 2006

STORMWATER MANAGEMENT REPORT

FOR

TOWN OF YORK
YORK
MAINE

Submitted to:

Town of York
186 York Street
York, ME 03904-1314

Submitted by:

Edwards and Kelcey
222 St. John Street
Suite 314
Portland, Maine 04102

July 5, 2006

Stormwater Management Report
For the
Town of York

PROJECT'S HYDROLOGICAL LOCATION

The area of interest defined for this study is that portion of Town east of the Maine Turnpike (I-95) to the ocean, between the York River and the Cape Neddick River. This area is shown on a USGS plan following this page (Fig. 1). The topography and geology is typical of the glacial coastal plain of Maine. The ridges and upland areas are glacial till overlying shallow bedrock. The area is cut by numerous small streams in the valley areas. These lowland areas have extensive wetlands along the streams and in depression in the bedrock.

The retreat of the glacier left extensive sand dune deposits and sand beaches along the coast in what is known as the Long Sands and Short Sands Beaches. These beach dunes serve as a barrier to upland runoff trying to reach the ocean. Many years ago the barrier dunes were developed to carry roadways (U.S. Route 1-A), to support extensive development abutting the highway, and in low lying areas behind the dunes.

The general topography and geologic conditions have created very complex hydrologic systems. Fortunately in recent years, advances in computer technology have made hydrologic modeling of such watersheds possible. Such modeling and analysis are vital to the development of a realistic remedial action program. However, it must be noted that hydraulic modeling under such complex physical conditions is not a precise science and a good deal of professional judgment must be applied when utilizing the output data.

HYDROLOGICAL MODELING

Stormwater runoff calculations for this project were made using the HydroCAD computer program, which is based on the Soil Conservation Service's TR-20 methodology. Runoff hydrographs are generated based on a standard type III storm. Three storms were modeled, the 25-year storm (5.4 inches in 24 hours); the 50-year storm (5.8 inches in 24 hours) and the 100-year storm (6.6 inches in 24 hours).

Runoff Curve numbers were determined based on land coverage and soil type. A digital soul survey for Maine (1:24,000 scale) was downloaded from the Maine GIS website. This data is a digital soil survey and generally is the most detailed level of soil geographic data developed by the National Cooperative Soil Survey. Land coverage was defined by EK using aerial photography and GIS applications. Times of concentration were developed based on runoff flow paths for each subarea.

To enable realistic hydrologic evaluations of the complex watershed conditions in York, it was necessary to assemble extensive topographic, photographic and physiological data for the

subject watersheds. Identified below is a brief description of the data obtained and used to complete the hydraulic analysis.

1) TOPOGRAPHY & AERIAL PHOTOS

The analysis could not be completed with existing topography data. Additional topography was requested by EK. The town contracted Bradstreet Consultants to provide two foot topography of the study area as well as aerial photography of the entire town.

The Town retained Bradstreet Consultants Inc. to take up-to-date aerial photos of the project area and to prepare two-foot contours. This data was utilized to define outfall areas, subwatershed limits, drainage channels, reaches, detention basins, watercourse flow paths and corresponding slopes. Due to the large scale of the project, the diverse land forms in the area and the large amounts of data acquired, the watershed delineation was difficult and time consuming. The aerial photos were also used by the Town as a GIS base where zoning, land use patterns and wetland delineation could be graphically illustrated. The data is such that any scale desired can be produced.

2) FIELD INVESTIGATION

Considerable detail that cannot be determined by photogrammetry had to be field assembled. Field investigation by Edwards and Kelcey was completed to identify, locate, and record all culverts, catch basins, and pertinent stormwater structures. The survey included diameter, material, length, inverts, and overall condition of the culverts and structures. Upstream and downstream geomorphology was recorded for design input.

This data will be integrated into the Town's GIS system. Appendix C of this report presents the culvert data in printed form. A compact disc is also provided to allow the Town immediate access to the data.

3) GEOGRAPHIC INFORMATION SYSTEM (GIS)

There are many benefits of a Geographical Information System (GIS) for analyzing geospatial data. A GIS can achieve the same results as traditional paper maps, drawings and spreadsheet in a more efficient way. The data is better maintained in a standard format allowing revisions and updates to be done more efficiently and effectively. A GIS can cope with larger amounts of data, can cover large study areas and conveniently select any sub-study area. Data is easier to search, analyze and represent in different scales more efficiently. GIS data is easy to share between individual departments and consultants of a municipality. Overall, GIS becomes a faster and more efficient process which requires less personnel time and saves money in the long run.

Further benefits are that analysis can combine data in new ways to visualize patterns and trends not evident in separate databases. Analyses can lead to predictive tools for

engineering stormwater runoff and flood threats in watersheds. Most municipal data are geographical; parcels, zoning, assessing, natural resources and infrastructure. To manage these data in a GIS enables greater efficiencies and provides a platform for community decision making.

EK assembled all the GIS data from the Town of York and the state of Maine and used it as a base line for the projects geodatabase. Bradstreet Consultants supplied the topographic data and aerial photography that was added to the geodatabase. We proceeded to identify, locate, draw and provide data for the completed field survey and hydraulic components (ie. Reaches, culverts, water bodies, detention.....) needed for the HydroCAD analysis. These attributes (specifically the subareas) where personally located, drawn, and recorded into the geodatabase one by one. The subareas where broken down (for the HydroCAD analysis) manually by soil hydrological grouping than delineated by field, forest, lawn, water, and imperviousness.

Delineation was completed and an overlay analysis was conducted to determine the percent of impervious surface in each watershed sub-area. This was done in ArcGIS with the CommunityViz extension by using the Land use layer, the MEGIS soils layer and the delineated Subareas layer. CommunityViz analyzed over 30,000 attributes and the results were spatial percentages of impervious and land-use surfaces per sub-watershed areas per soil Hydrogroup.

Every attribute listed below and included in the stormwater analysis is incorporated into an extensive GIS Geodatabase and provided to the Town for their disposal.

	Attribute	Entities Created
1.	Subareas	448
2.	Study-area	6733 acres
3.	Culverts	650
4.	Surveyed Culverts	302
5.	Delineated Detention Areas	35
6.	Reaches	538
7.	Catch Basins Identified	108
8.	Ponds Identified	55

STORMWATER RUNOFF CALCULATIONS

Based on the calculations in this Volume, the stormwater results for each Outfall is tabulated below.

OUTFALLS	STORMWATER FLOW TO OUTFALLS (CFS)				
	2 Year	10 Year	25 Year	50 Year	100 Year
F	19.03	34.36	41.86	45.64	53.24
G	68.39	181.88	273.40	320.03	414.66
I	34.24	47.33	47.23	50.82	48.45
J	75.98	201.65	264.60	295.61	356.59
K	0	0	20.86	18.59	28.55
L	7.85	10.61	11.78	12.36	20.02
M	12.61	13.66	13.69	13.66	13.66
N	9.65	17.97	22.20	24.32	28.57
O	151.15	247.77	305.23	324.36	487.20
P	21.34	35.69	44.08	54.12	52.37
R	26.42	44.38	52.96	58.00	79.92
Z	20.13	42.16	52.59	57.58	67.15

The Outfall calculations provided within are those Outfalls directly contributing to the dune area or areas that are at most risk of flooding. Other Outfalls either discharge directly to Atlantic Ocean, York and Cape Neddick River or are not considered to be problem areas at this time. All subarea and culvert data is recorded for the Town's use at anytime.



DRAWN BY: **CJK**	DATE: **MAY 31, 2006**
CHECKED BY: **SJB**	PROJECT: **060057018**

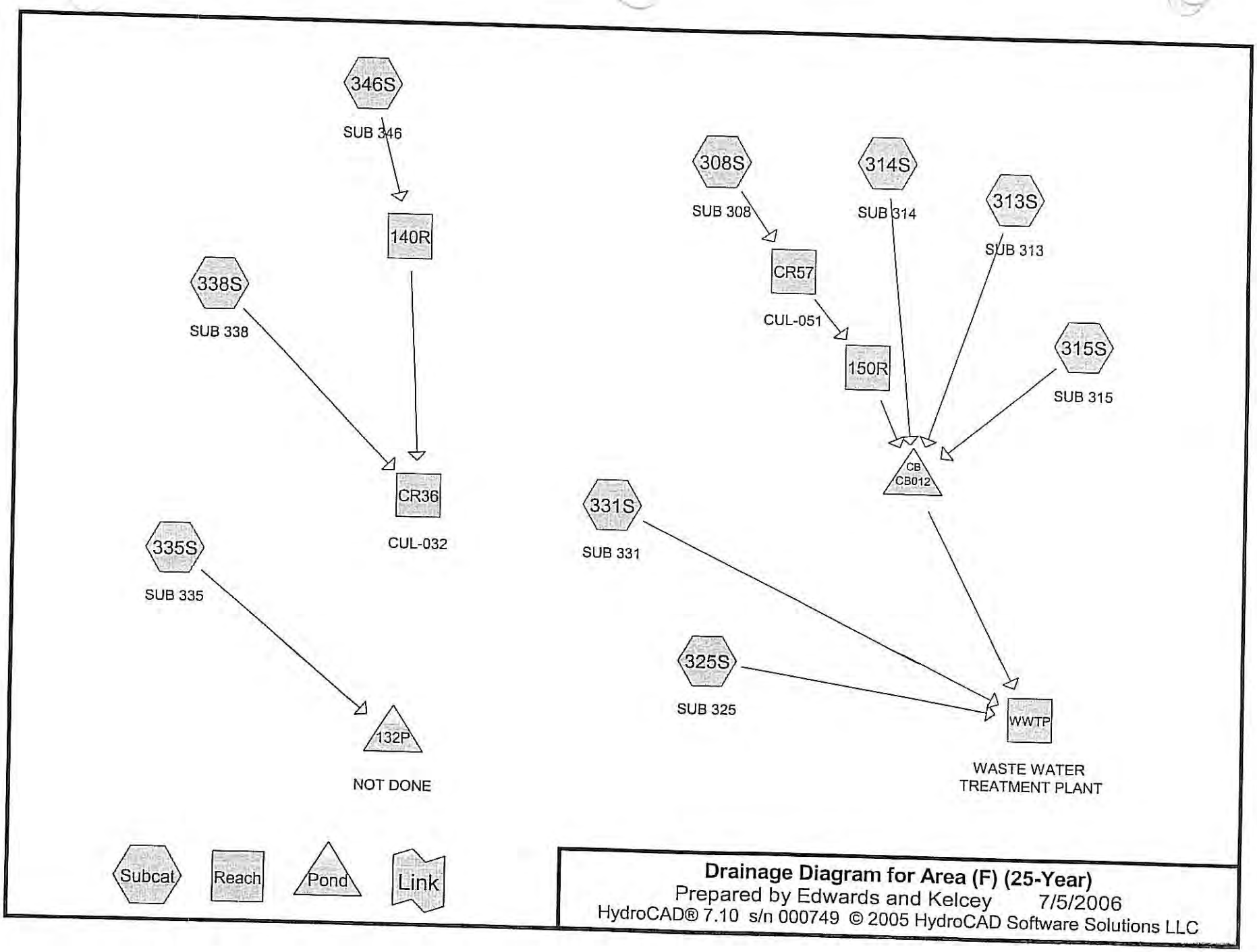
Edwards AND Kelcey
ENGINEERS
ARCHITECTS
PLANNERS
CONSTRUCTORS
222 St. John Street Suite 314
Portland, Maine 04102
Tel. (207) 828-1272 Fax (207) 774-6907
www.ekcorp.com

OUTFALL "F"

Data Sources:
Town of York
Maine Office of GIS

YORK WATERSHED MANAGEMENT
TOWN OF YORK, MAINE

T:\Projects\938\Maps\Outfall_F_11x17.mxd


346S
SUB 346
140R
338S
SUB 338
CR36
CUL-032
335S
SUB 335
132P
NOT DONE
308S
SUB 308
314S
SUB 314
313S
SUB 313
CR57
CUL-051
150R
315S
SUB 315
CB
CB012
331S
SUB 331
325S
SUB 325
WWTP
WASTE WATER
TREATMENT PLANT
Subcat
Reach
Pond
Link
Drainage Diagram for Area (F) (25-Year)
Prepared by Edwards and Kelcey 7/5/2006
HydroCAD® 7.10 s/n 000749 © 2005 HydroCAD Software Solutions LLC

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 308S: SUB 308 Runoff Area=3.940 ac Runoff Depth>3.40"
Flow Length=400' Tc=27.7 min CN=84 Runoff=9.76 cfs 1.116 af

Subcatchment 313S: SUB 313 Runoff Area=4.080 ac Runoff Depth>3.71"
Flow Length=474' Tc=17.8 min CN=87 Runoff=13.05 cfs 1.261 af

Subcatchment 314S: SUB 314 Runoff Area=2.410 ac Runoff Depth>3.31"
Flow Length=255' Tc=19.7 min CN=83 Runoff=6.74 cfs 0.664 af

Subcatchment 315S: SUB 315 Runoff Area=2.010 ac Runoff Depth>3.90"
Flow Length=441' Tc=28.0 min CN=89 Runoff=5.55 cfs 0.654 af

Subcatchment 325S: SUB 325 Runoff Area=6.100 ac Runoff Depth>2.91"
Flow Length=588' Tc=37.7 min CN=79 Runoff=11.42 cfs 1.480 af

Subcatchment 331S: SUB 331 Runoff Area=5.130 ac Runoff Depth>3.17"
Flow Length=564' Tc=56.3 min CN=82 Runoff=8.42 cfs 1.356 af

Subcatchment 335S: SUB 335 Runoff Area=7.440 ac Runoff Depth>2.91"
Flow Length=521' Tc=34.7 min CN=79 Runoff=14.48 cfs 1.807 af

Subcatchment 338S: SUB 338 Runoff Area=11.380 ac Runoff Depth>2.64"
Flow Length=1,057' Tc=42.1 min CN=76 Runoff=18.33 cfs 2.500 af

Subcatchment 346S: SUB 346 Runoff Area=1.110 ac Runoff Depth>3.50"
Flow Length=241' Tc=21.4 min CN=85 Runoff=3.15 cfs 0.324 af

Reach 140R: Peak Depth=0.31' Max Vel=4.2 fps Inflow=3.15 cfs 0.324 af
n=0.030 L=291.0' S=0.0547 '/' Capacity=180.74 cfs Outflow=3.12 cfs 0.324 af

Reach 150R: Peak Depth=0.57' Max Vel=2.5 fps Inflow=4.84 cfs 1.115 af
n=0.030 L=436.0' S=0.0103 '/' Capacity=78.48 cfs Outflow=4.60 cfs 1.112 af

Reach CR36: CUL-032 Peak Depth=1.00' Max Vel=1.6 fps Inflow=20.37 cfs 2.824 af
D=12.0" n=0.024 L=50.0' S=0.0034 '/' Capacity=1.13 cfs Outflow=1.20 cfs 0.929 af

Reach CR57: CUL-051 Peak Depth=1.00' Max Vel=6.6 fps Inflow=9.76 cfs 1.116 af
D=12.0" n=0.013 L=30.0' S=0.0167 '/' Capacity=4.60 cfs Outflow=4.84 cfs 1.115 af

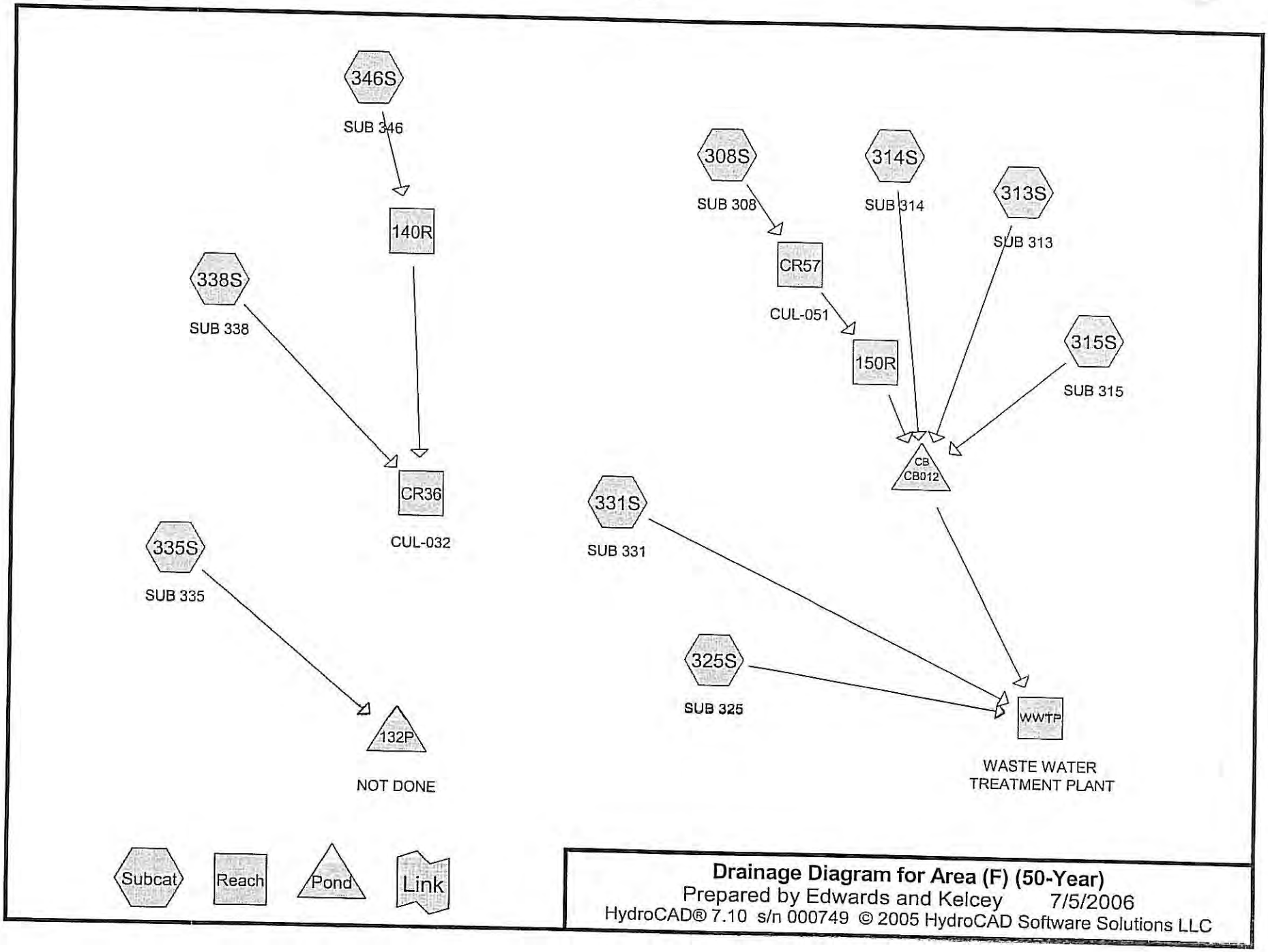
Reach WWTP: WASTE WATER TREATMENT PLANT Inflow=41.86 cfs 6.528 af
Outflow=41.86 cfs 6.528 af

Pond 132P: NOT DONE Peak Elev=98.00' Storage=0.000 af Inflow=14.48 cfs 1.807 af
Outflow=14.48 cfs 1.807 af

Pond CB012:

Peak Elev=36.17' Inflow=29.26 cfs 3.691 af
18.0" x 100.0' Culvert Outflow=29.26 cfs 3.691 af

Total Runoff Area = 43.600 ac Runoff Volume = 11.162 af Average Runoff Depth = 3.07"


346S
SUB 346
140R
338S
SUB 338
CR36
CUL-032
335S
SUB 335
132P
NOT DONE
308S
SUB 308
314S
SUB 314
313S
SUB 313
CR57
CUL-051
150R
315S
SUB 315
CB
CB012
331S
SUB 331
325S
SUB 325
WWTP
WASTE WATER
TREATMENT PLANT
Subcat
Reach
Pond
Link
Drainage Diagram for Area (F) (50-Year)
Prepared by Edwards and Kelcey 7/5/2006
HydroCAD® 7.10 s/n 000749 © 2005 HydroCAD Software Solutions LLC

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 308S: SUB 308 Runoff Area=3.940 ac Runoff Depth>3.75"
Flow Length=400' Tc=27.7 min CN=84 Runoff=10.74 cfs 1.231 af

Subcatchment 313S: SUB 313 Runoff Area=4.080 ac Runoff Depth>4.07"
Flow Length=474' Tc=17.8 min CN=87 Runoff=14.26 cfs 1.384 af

Subcatchment 314S: SUB 314 Runoff Area=2.410 ac Runoff Depth>3.66"
Flow Length=255' Tc=19.7 min CN=83 Runoff=7.42 cfs 0.734 af

Subcatchment 315S: SUB 315 Runoff Area=2.010 ac Runoff Depth>4.27"
Flow Length=441' Tc=28.0 min CN=89 Runoff=6.04 cfs 0.715 af

Subcatchment 325S: SUB 325 Runoff Area=6.100 ac Runoff Depth>3.24"
Flow Length=588' Tc=37.7 min CN=79 Runoff=12.69 cfs 1.648 af

Subcatchment 331S: SUB 331 Runoff Area=5.130 ac Runoff Depth>3.51"
Flow Length=564' Tc=56.3 min CN=82 Runoff=9.29 cfs 1.502 af

Subcatchment 335S: SUB 335 Runoff Area=7.440 ac Runoff Depth>3.25"
Flow Length=521' Tc=34.7 min CN=79 Runoff=16.09 cfs 2.013 af

Subcatchment 338S: SUB 338 Runoff Area=11.380 ac Runoff Depth>2.95"
Flow Length=1,057' Tc=42.1 min CN=76 Runoff=20.52 cfs 2.801 af

Subcatchment 346S: SUB 346 Runoff Area=1.110 ac Runoff Depth>3.86"
Flow Length=241' Tc=21.4 min CN=85 Runoff=3.45 cfs 0.357 af

Reach 140R: Peak Depth=0.32' Max Vel=4.3 fps Inflow=3.45 cfs 0.357 af
n=0.030 L=291.0' S=0.0547 '/' Capacity=180.74 cfs Outflow=3.43 cfs 0.356 af

Reach 150R: Peak Depth=0.57' Max Vel=2.5 fps Inflow=4.60 cfs 1.231 af
n=0.030 L=436.0' S=0.0103 '/' Capacity=78.48 cfs Outflow=4.60 cfs 1.227 af

Reach CR36: CUL-032 Peak Depth=1.00' Max Vel=1.6 fps Inflow=22.76 cfs 3.158 af
D=12.0" n=0.024 L=50.0' S=0.0034 '/' Capacity=1.13 cfs Outflow=1.18 cfs 0.953 af

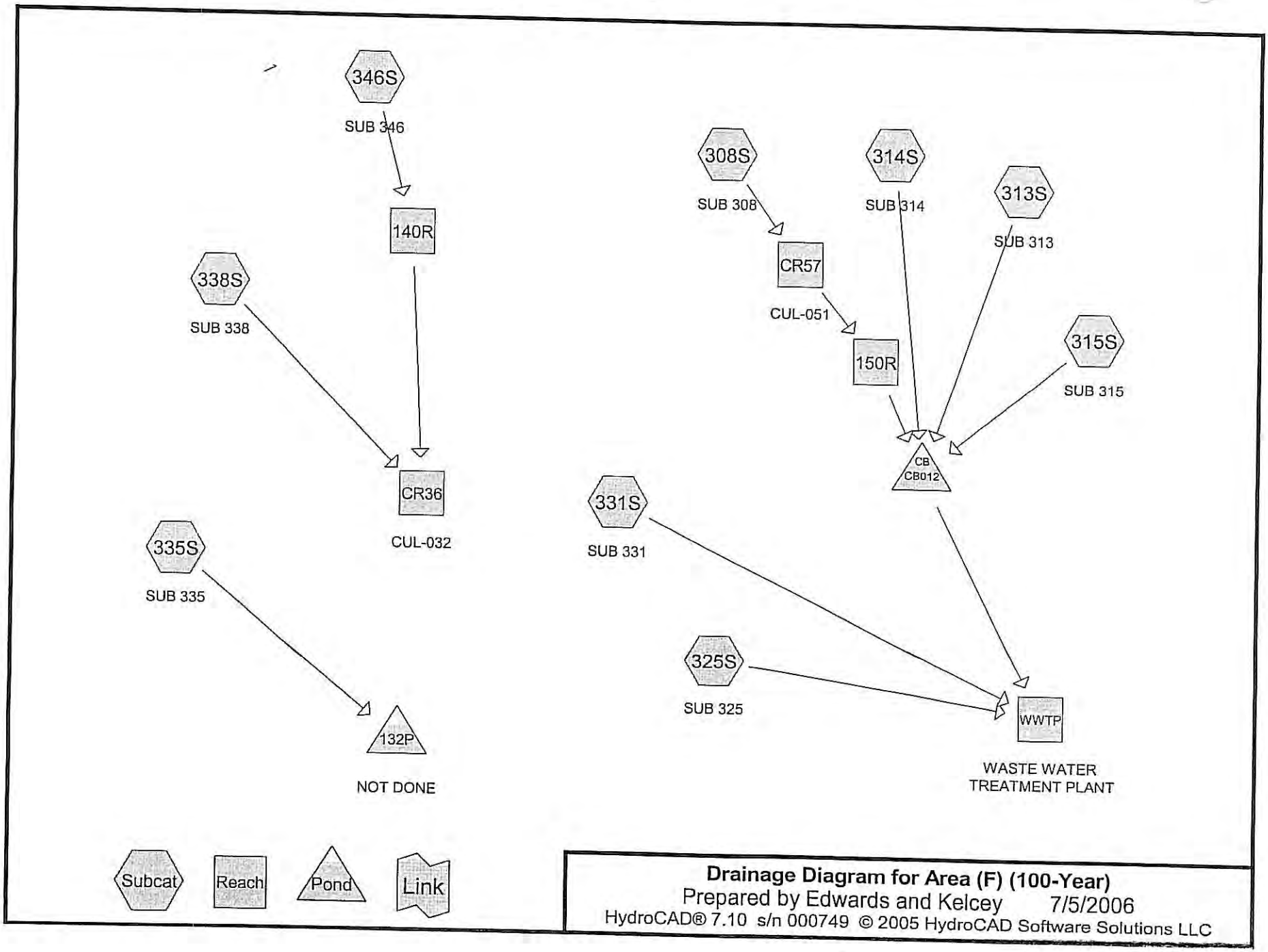
Reach CR57: CUL-051 Peak Depth=1.00' Max Vel=6.7 fps Inflow=10.74 cfs 1.231 af
D=12.0" n=0.013 L=30.0' S=0.0167 '/' Capacity=4.60 cfs Outflow=4.60 cfs 1.231 af

Reach WWTP: WASTE WATER TREATMENT PLANT Inflow=45.64 cfs 7.211 af
Outflow=45.64 cfs 7.211 af

Pond 132P: NOT DONE Peak Elev=98.00' Storage=0.000 af Inflow=16.09 cfs 2.013 af
Outflow=16.09 cfs 2.013 af

Pond CB012: Peak Elev=41.97' Inflow=31.58 cfs 4.060 af
18.0" x 100.0' Culvert Outflow=31.58 cfs 4.060 af

Total Runoff Area = 43.600 ac Runoff Volume = 12.386 af Average Runoff Depth = 3.41"


346S
SUB 346
140R
338S
SUB 338
CR36
CUL-032
335S
SUB 335
132P
NOT DONE
308S
SUB 308
314S
SUB 314
313S
SUB 313
CR57
CUL-051
150R
315S
SUB 315
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331S
SUB 331
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WWTP
WASTE WATER
TREATMENT PLANT
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Drainage Diagram for Area (F) (100-Year)
Prepared by Edwards and Kelcey 7/5/2006
HydroCAD® 7.10 s/n 000749 © 2005 HydroCAD Software Solutions LLC

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 308S: SUB 308 Runoff Area=3.940 ac Runoff Depth>4.46"
Flow Length=400' Tc=27.7 min CN=84 Runoff=12.68 cfs 1.464 af

Subcatchment 313S: SUB 313 Runoff Area=4.080 ac Runoff Depth>4.80"
Flow Length=474' Tc=17.8 min CN=87 Runoff=16.67 cfs 1.631 af

Subcatchment 314S: SUB 314 Runoff Area=2.410 ac Runoff Depth>4.36"
Flow Length=255' Tc=19.7 min CN=83 Runoff=8.80 cfs 0.876 af

Subcatchment 315S: SUB 315 Runoff Area=2.010 ac Runoff Depth>5.00"
Flow Length=441' Tc=28.0 min CN=89 Runoff=7.02 cfs 0.838 af

Subcatchment 325S: SUB 325 Runoff Area=6.100 ac Runoff Depth>3.92"
Flow Length=588' Tc=37.7 min CN=79 Runoff=15.25 cfs 1.992 af

Subcatchment 331S: SUB 331 Runoff Area=5.130 ac Runoff Depth>4.21"
Flow Length=564' Tc=56.3 min CN=82 Runoff=11.06 cfs 1.799 af

Subcatchment 335S: SUB 335 Runoff Area=7.440 ac Runoff Depth>3.92"
Flow Length=521' Tc=34.7 min CN=79 Runoff=19.37 cfs 2.432 af

Subcatchment 338S: SUB 338 Runoff Area=11.380 ac Runoff Depth>3.61"
Flow Length=1,057' Tc=42.1 min CN=76 Runoff=24.97 cfs 3.419 af

Subcatchment 346S: SUB 346 Runoff Area=1.110 ac Runoff Depth>4.58"
Flow Length=241' Tc=21.4 min CN=85 Runoff=4.06 cfs 0.423 af

Reach 140R: Peak Depth=0.35' Max Vel=4.5 fps Inflow=4.06 cfs 0.423 af
n=0.030 L=291.0' S=0.0547 '/' Capacity=180.74 cfs Outflow=4.03 cfs 0.423 af

Reach 150R: Peak Depth=0.57' Max Vel=2.5 fps Inflow=4.60 cfs 1.464 af
n=0.030 L=436.0' S=0.0103 '/' Capacity=78.48 cfs Outflow=4.60 cfs 1.460 af

Reach CR36: CUL-032 Peak Depth=1.00' Max Vel=1.6 fps Inflow=27.60 cfs 3.842 af
D=12.0" n=0.024 L=50.0' S=0.0034 '/' Capacity=1.13 cfs Outflow=1.19 cfs 0.999 af

Reach CR57: CUL-051 Peak Depth=1.00' Max Vel=6.7 fps Inflow=12.68 cfs 1.464 af
D=12.0" n=0.013 L=30.0' S=0.0167 '/' Capacity=4.60 cfs Outflow=4.60 cfs 1.464 af

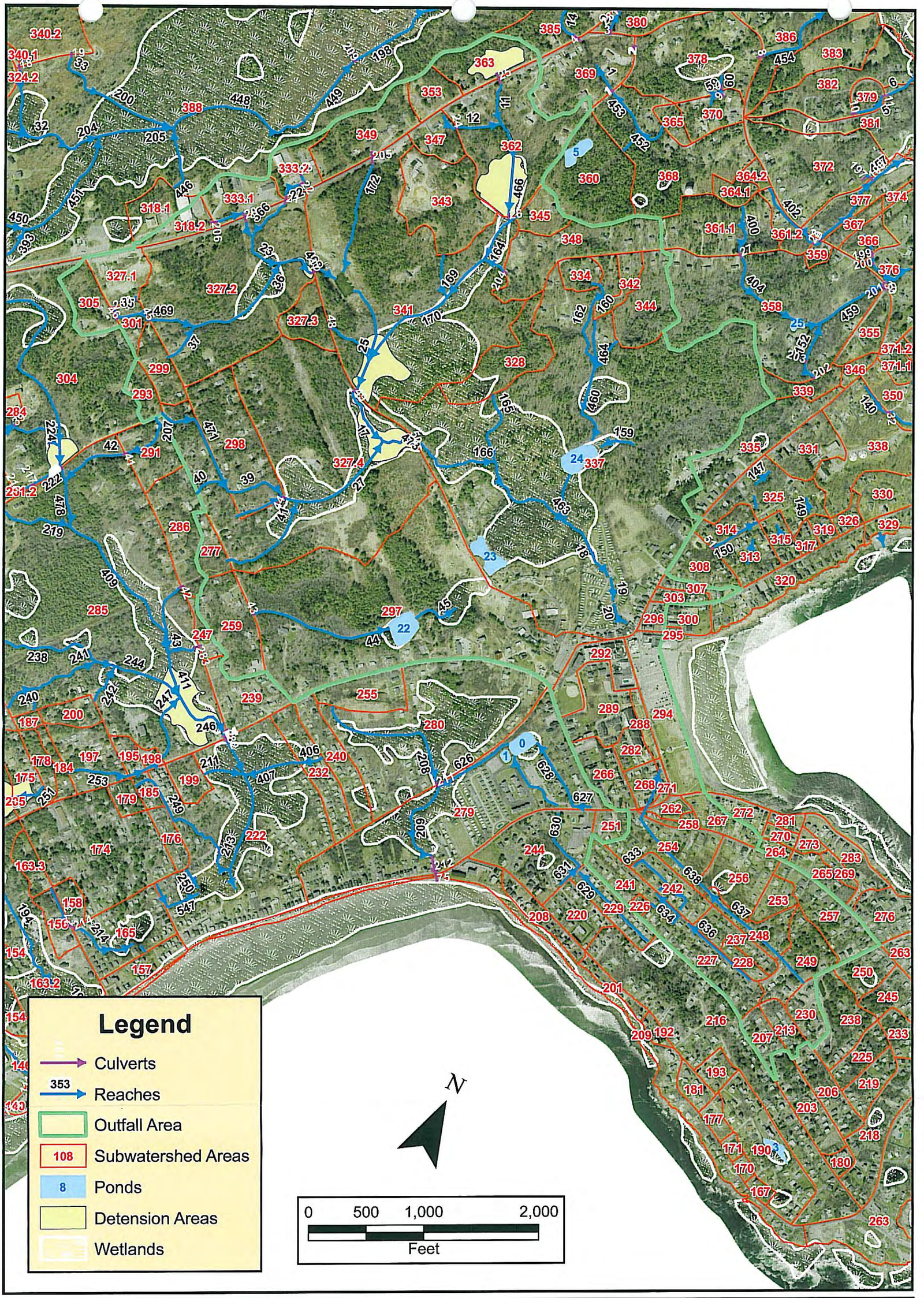
Reach WWTP: WASTE WATER TREATMENT PLANT Inflow=53.24 cfs 8.596 af
Outflow=53.24 cfs 8.596 af

Pond 132P: NOT DONE Peak Elev=98.00' Storage=0.000 af Inflow=19.37 cfs 2.432 af
Outflow=19.37 cfs 2.432 af

Pond CB012:

Peak Elev=54.90' Inflow=36.22 cfs 4.805 af
18.0" x 100.0' Culvert Outflow=36.22 cfs 4.805 af

Total Runoff Area = 43.600 ac Runoff Volume = 14.875 af Average Runoff Depth = 4.09"



DRAWN BY: **CJK**	DATE: **MAY 31, 2006**
CHECKED BY: **SJB**	PROJECT: **060057018**

OUTFALL "G"

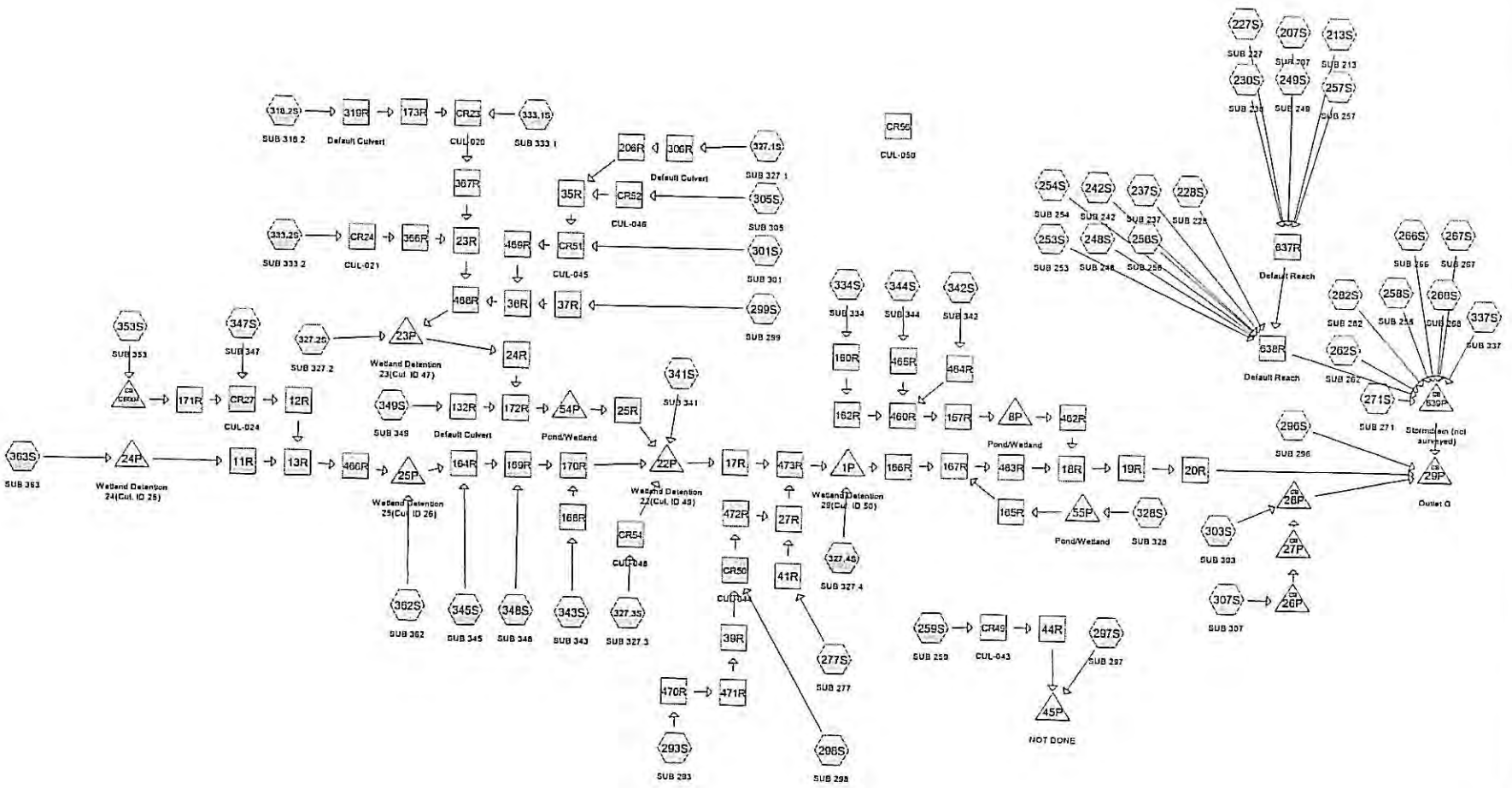
Data Sources:
Town of York
Maine Office of GIS

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YORK WATERSHED MANAGEMENT
TOWN OF YORK, MAINE

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Drainage Diagram for Area (G) (25 - Year)
Prepared by Edwards and Kelcey 7/5/2006
HydroCAD® 7.10 s/n 000749 © 2005 HydroCAD Software Solutions LLC

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 207S: SUB 207
Runoff Area=1.650 ac Runoff Depth>2.92"
Flow Length=400' Tc=27.7 min CN=79 Runoff=3.56 cfs 0.402 af

Subcatchment 213S: SUB 213
Runoff Area=2.110 ac Runoff Depth>2.74"
Flow Length=480' Tc=28.2 min CN=77 Runoff=4.25 cfs 0.482 af

Subcatchment 227S: SUB 227
Runoff Area=5.580 ac Runoff Depth>0.75"
Flow Length=1,156' Tc=32.8 min CN=50 Runoff=2.26 cfs 0.348 af

Subcatchment 228S: SUB 228
Runoff Area=0.850 ac Runoff Depth>0.23"
Flow Length=357' Tc=19.0 min CN=39 Runoff=0.06 cfs 0.016 af

Subcatchment 230S: SUB 230
Runoff Area=2.890 ac Runoff Depth>3.50"
Flow Length=340' Tc=28.5 min CN=85 Runoff=7.25 cfs 0.842 af

Subcatchment 237S: SUB 237
Runoff Area=1.980 ac Runoff Depth>0.23"
Flow Length=764' Tc=28.6 min CN=39 Runoff=0.12 cfs 0.038 af

Subcatchment 242S: SUB 242
Runoff Area=3.980 ac Runoff Depth>1.38"
Flow Length=333' Tc=34.9 min CN=60 Runoff=3.48 cfs 0.457 af

Subcatchment 248S: SUB 248
Runoff Area=3.590 ac Runoff Depth>1.98"
Flow Length=840' Tc=22.7 min CN=68 Runoff=5.68 cfs 0.593 af

Subcatchment 249S: SUB 249
Runoff Area=5.960 ac Runoff Depth>2.90"
Flow Length=677' Tc=47.4 min CN=79 Runoff=9.89 cfs 1.441 af

Subcatchment 253S: SUB 253
Runoff Area=2.150 ac Runoff Depth>2.57"
Flow Length=325' Tc=16.5 min CN=75 Runoff=5.06 cfs 0.461 af

Subcatchment 254S: SUB 254
Runoff Area=7.440 ac Runoff Depth>2.82"
Flow Length=906' Tc=39.6 min CN=78 Runoff=13.18 cfs 1.747 af

Subcatchment 256S: SUB 256
Runoff Area=6.660 ac Runoff Depth>2.55"
Flow Length=642' Tc=36.3 min CN=75 Runoff=11.16 cfs 1.418 af

Subcatchment 257S: SUB 257
Runoff Area=6.480 ac Runoff Depth>3.49"
Flow Length=1,154' Tc=35.6 min CN=85 Runoff=14.65 cfs 1.884 af

Subcatchment 258S: SUB 258
Runoff Area=0.820 ac Runoff Depth>3.80"
Flow Length=345' Tc=26.8 min CN=88 Runoff=2.26 cfs 0.260 af

Subcatchment 259S: SUB 259
Runoff Area=7.800 ac Runoff Depth>3.10"
Flow Length=630' Tc=34.2 min CN=81 Runoff=16.21 cfs 2.016 af

Subcatchment 262S: SUB 262 Runoff Area=1.150 ac Runoff Depth>3.91"
Flow Length=220' Tc=25.2 min CN=89 Runoff=3.33 cfs 0.374 af

Subcatchment 266S: SUB 266 Runoff Area=3.360 ac Runoff Depth>2.75"
Flow Length=247' Tc=16.0 min CN=77 Runoff=8.58 cfs 0.770 af

Subcatchment 267S: SUB 267 Runoff Area=1.740 ac Runoff Depth>3.02"
Flow Length=599' Tc=22.0 min CN=80 Runoff=4.28 cfs 0.438 af

Subcatchment 268S: SUB 268 Runoff Area=1.040 ac Runoff Depth>3.03"
Flow Length=260' Tc=13.7 min CN=80 Runoff=3.07 cfs 0.262 af

Subcatchment 271S: SUB 271 Runoff Area=0.670 ac Runoff Depth>3.82"
Flow Length=150' Tc=12.6 min CN=88 Runoff=2.49 cfs 0.213 af

Subcatchment 277S: SUB 277 Runoff Area=2.360 ac Runoff Depth>3.20"
Flow Length=430' Tc=26.7 min CN=82 Runoff=5.65 cfs 0.630 af

Subcatchment 282S: SUB 282 Runoff Area=1.960 ac Runoff Depth>3.92"
Flow Length=202' Tc=17.3 min CN=89 Runoff=6.60 cfs 0.639 af

Subcatchment 293S: SUB 293 Runoff Area=2.120 ac Runoff Depth>3.10"
Flow Length=415' Tc=33.0 min CN=81 Runoff=4.48 cfs 0.548 af

Subcatchment 296S: SUB 296 Runoff Area=1.180 ac Runoff Depth>4.78"
Flow Length=110' Tc=6.4 min CN=98 Runoff=6.04 cfs 0.470 af

Subcatchment 297S: SUB 297 Runoff Area=50.010 ac Runoff Depth>2.87"
Flow Length=1,443' Tc=77.5 min CN=79 Runoff=61.98 cfs 11.957 af

Subcatchment 298S: SUB 298 Runoff Area=12.240 ac Runoff Depth>3.01"
Flow Length=1,244' Tc=31.2 min CN=80 Runoff=25.81 cfs 3.071 af

Subcatchment 299S: SUB 299 Runoff Area=3.640 ac Runoff Depth>3.19"
Flow Length=461' Tc=36.3 min CN=82 Runoff=7.55 cfs 0.969 af

Subcatchment 301S: SUB 301 Runoff Area=1.790 ac Runoff Depth>3.29"
Flow Length=260' Tc=32.7 min CN=83 Runoff=4.01 cfs 0.491 af

Subcatchment 303S: SUB 303 Runoff Area=1.270 ac Runoff Depth>4.12"
Flow Length=345' Tc=16.0 min CN=91 Runoff=4.59 cfs 0.436 af

Subcatchment 305S: SUB 305 Runoff Area=4.000 ac Runoff Depth>3.01"
Flow Length=450' Tc=34.5 min CN=80 Runoff=8.05 cfs 1.002 af

Subcatchment 307S: SUB 307 Runoff Area=1.380 ac Runoff Depth>4.02"
Flow Length=107' Tc=15.9 min CN=90 Runoff=4.91 cfs 0.462 af

Subcatchment 318.2S: SUB 318.2 Runoff Area=2.680 ac Runoff Depth>4.02"
Flow Length=304' Tc=15.7 min CN=90 Runoff=9.58 cfs 0.898 af

Subcatchment 327.1S: SUB 327.1 Runoff Area=4.370 ac Runoff Depth>4.33"
Flow Length=430' Tc=10.9 min CN=93 Runoff=18.61 cfs 1.577 af

Subcatchment 327.2S: SUB 327.2 Runoff Area=36.060 ac Runoff Depth>2.80"
Flow Length=1,650' Tc=53.1 min CN=78 Runoff=54.55 cfs 8.427 af

Subcatchment 327.3S: SUB 327.3 Runoff Area=3.790 ac Runoff Depth>2.83"
Flow Length=350' Tc=29.6 min CN=78 Runoff=7.72 cfs 0.893 af

Subcatchment 327.4S: SUB 327.4 Runoff Area=53.090 ac Runoff Depth>2.68"
Flow Length=1,575' Tc=85.4 min CN=77 Runoff=58.00 cfs 11.856 af

Subcatchment 328S: SUB 328 Runoff Area=7.680 ac Runoff Depth>2.74"
Flow Length=1,143' Tc=27.6 min CN=77 Runoff=15.62 cfs 1.753 af

Subcatchment 333.1S: SUB 333.1 Runoff Area=4.790 ac Runoff Depth>3.69"
Flow Length=355' Tc=32.4 min CN=87 Runoff=11.86 cfs 1.474 af

Subcatchment 333.2S: SUB 333.2 Runoff Area=3.920 ac Runoff Depth>3.69"
Flow Length=727' Tc=33.2 min CN=87 Runoff=9.61 cfs 1.206 af

Subcatchment 334S: SUB 334 Runoff Area=1.990 ac Runoff Depth>3.02"
Flow Length=259' Tc=25.1 min CN=80 Runoff=4.62 cfs 0.500 af

Subcatchment 337S: SUB 337 Runoff Area=116.470 ac Runoff Depth>2.94"
Flow Length=2,050' Tc=97.2 min CN=80 Runoff=128.29 cfs 28.517 af

Subcatchment 341S: SUB 341 Runoff Area=59.230 ac Runoff Depth>2.80"
Flow Length=2,119' Tc=58.2 min CN=78 Runoff=84.78 cfs 13.815 af

Subcatchment 342S: SUB 342 Runoff Area=2.210 ac Runoff Depth>3.21"
Flow Length=588' Tc=23.0 min CN=82 Runoff=5.64 cfs 0.591 af

Subcatchment 343S: SUB 343 Runoff Area=11.570 ac Runoff Depth>3.40"
Flow Length=907' Tc=27.6 min CN=84 Runoff=28.75 cfs 3.276 af

Subcatchment 344S: SUB 344 Runoff Area=6.890 ac Runoff Depth>2.83"
Flow Length=507' Tc=24.4 min CN=78 Runoff=15.26 cfs 1.627 af

Subcatchment 345S: SUB 345 Runoff Area=2.820 ac Runoff Depth>3.01"
Flow Length=467' Tc=30.6 min CN=80 Runoff=6.00 cfs 0.708 af

Subcatchment 347S: SUB 347 Runoff Area=3.050 ac Runoff Depth>3.30"
Flow Length=320' Tc=26.0 min CN=83 Runoff=7.58 cfs 0.839 af

Subcatchment 348S: SUB 348 Runoff Area=11.040 ac Runoff Depth>3.01"
Flow Length=1,607' Tc=34.6 min CN=80 Runoff=22.18 cfs 2.767 af

Subcatchment 349S: SUB 349 Runoff Area=8.500 ac Runoff Depth>3.11"
Flow Length=384' Tc=29.9 min CN=81 Runoff=18.81 cfs 2.200 af

Subcatchment 353S: SUB 353 Runoff Area=1.980 ac Runoff Depth>3.71"
Flow Length=262' Tc=20.5 min CN=87 Runoff=6.00 cfs 0.611 af

Subcatchment 362S: SUB 362 Runoff Area=19.760 ac Runoff Depth>3.01"
Flow Length=1,259' Tc=35.3 min CN=80 Runoff=39.32 cfs 4.951 af

Subcatchment 363S: SUB 363 Runoff Area=5.980 ac Runoff Depth>2.93"
Flow Length=495' Tc=23.1 min CN=79 Runoff=13.99 cfs 1.458 af

Reach 11R: Peak Depth=0.10' Max Vel=1.1 fps Inflow=0.46 cfs 0.205 af
n=0.040 L=361.0' S=0.0192 '/' Capacity=221.89 cfs Outflow=0.46 cfs 0.198 af

Reach 12R: Peak Depth=0.23' Max Vel=1.4 fps Inflow=2.83 cfs 1.450 af
n=0.030 L=380.0' S=0.0073 '/' Capacity=634.61 cfs Outflow=2.68 cfs 1.443 af

Reach 13R: Peak Depth=0.40' Max Vel=1.6 fps Inflow=3.11 cfs 1.642 af
n=0.040 L=366.0' S=0.0082 '/' Capacity=144.99 cfs Outflow=3.11 cfs 1.631 af

Reach 17R: Peak Depth=2.04' Max Vel=3.2 fps Inflow=171.64 cfs 33.745 af
n=0.040 L=529.0' S=0.0061 '/' Capacity=433.37 cfs Outflow=170.75 cfs 33.528 af

Reach 18R: Peak Depth=5.00' Max Vel=2.7 fps Inflow=195.47 cfs 44.935 af
n=0.025 L=618.0' S=0.0008 '/' Capacity=51.18 cfs Outflow=193.95 cfs 44.505 af

Reach 19R: Peak Depth=3.28' Max Vel=4.4 fps Inflow=193.95 cfs 44.505 af
n=0.025 L=207.0' S=0.0024 '/' Capacity=88.43 cfs Outflow=193.76 cfs 44.410 af

Reach 20R: Peak Depth=3.42' Max Vel=4.2 fps Inflow=193.76 cfs 44.410 af
n=0.025 L=232.0' S=0.0022 '/' Capacity=83.53 cfs Outflow=193.50 cfs 44.298 af

Reach 23R: Peak Depth=0.41' Max Vel=1.6 fps Inflow=6.82 cfs 3.566 af
n=0.040 L=402.0' S=0.0100 '/' Capacity=554.08 cfs Outflow=6.82 cfs 3.553 af

Reach 24R: Peak Depth=1.36' Max Vel=2.5 fps Inflow=90.14 cfs 14.517 af
n=0.040 L=174.0' S=0.0063 '/' Capacity=441.65 cfs Outflow=68.16 cfs 14.491 af

Reach 25R: Peak Depth=1.40' Max Vel=2.8 fps Inflow=96.46 cfs 14.138 af
n=0.050 L=697.0' S=0.0115 '/' Capacity=476.08 cfs Outflow=77.46 cfs 14.020 af

Reach 27R: Peak Depth=0.79' Max Vel=0.9 fps Inflow=10.50 cfs 4.220 af
n=0.050 L=966.0' S=0.0022 '/' Capacity=207.19 cfs Outflow=9.58 cfs 4.126 af

Reach 35R: Peak Depth=0.62' Max Vel=2.7 fps Inflow=21.10 cfs 2.578 af
n=0.040 L=301.0' S=0.0175 '/' Capacity=735.69 cfs Outflow=20.41 cfs 2.572 af

Reach 36R: Peak Depth=0.57' Max Vel=1.3 fps Inflow=9.49 cfs 2.716 af
n=0.040 L=993.0' S=0.0045 '/' Capacity=373.93 cfs Outflow=8.74 cfs 2.620 af

Reach 37R: Peak Depth=0.32' Max Vel=2.6 fps Inflow=7.55 cfs 0.969 af
n=0.040 L=370.0' S=0.0324 '/' Capacity=1,000.34 cfs Outflow=7.51 cfs 0.966 af

Reach 39R: Peak Depth=0.20' Max Vel=2.7 fps Inflow=4.40 cfs 0.544 af
n=0.030 L=537.0' S=0.0324 '/' Capacity=1,333.17 cfs Outflow=4.35 cfs 0.541 af

Reach 41R: Peak Depth=0.37' Max Vel=1.4 fps Inflow=5.65 cfs 0.630 af
n=0.040 L=912.0' S=0.0087 '/' Capacity=516.98 cfs Outflow=5.02 cfs 0.621 af

Reach 44R: Peak Depth=0.20' Max Vel=0.6 fps Inflow=1.04 cfs 0.845 af
n=0.040 L=1,232.0' S=0.0033 '/' Capacity=320.44 cfs Outflow=0.99 cfs 0.755 af

Reach 132R: Default Culvert Peak Depth=1.13' Max Vel=6.4 fps Inflow=18.81 cfs 2.200 af
D=48.0" n=0.011 L=25.0' S=0.0040 '/' Capacity=107.37 cfs Outflow=18.81 cfs 2.200 af

Reach 157R: Peak Depth=0.71' Max Vel=2.5 fps Inflow=23.29 cfs 2.689 af
n=0.050 L=300.0' S=0.0200 '/' Capacity=628.44 cfs Outflow=23.11 cfs 2.681 af

Reach 160R: Peak Depth=0.31' Max Vel=1.6 fps Inflow=4.62 cfs 0.500 af
n=0.040 L=290.0' S=0.0138 '/' Capacity=652.36 cfs Outflow=4.57 cfs 0.498 af

Reach 162R: Peak Depth=0.23' Max Vel=2.4 fps Inflow=4.57 cfs 0.498 af
n=0.040 L=637.0' S=0.0408 '/' Capacity=1,122.22 cfs Outflow=4.43 cfs 0.494 af

Reach 164R: Peak Depth=0.42' Max Vel=2.4 fps Inflow=10.43 cfs 5.173 af
n=0.040 L=412.0' S=0.0210 '/' Capacity=804.86 cfs Outflow=10.39 cfs 5.122 af

Reach 165R: Peak Depth=0.51' Max Vel=2.7 fps Inflow=15.62 cfs 1.753 af
n=0.040 L=675.0' S=0.0224 '/' Capacity=830.80 cfs Outflow=15.24 cfs 1.742 af

Reach 166R: Peak Depth=4.50' Max Vel=1.0 fps Inflow=221.10 cfs 45.624 af
n=0.040 L=775.0' S=0.0003 '/' Capacity=89.23 cfs Outflow=197.80 cfs 44.256 af

Reach 167R: Peak Depth=3.04' Max Vel=1.8 fps Inflow=199.98 cfs 45.999 af
n=0.040 L=248.0' S=0.0012 '/' Capacity=193.19 cfs Outflow=199.46 cfs 45.743 af

Reach 168R: Peak Depth=0.76' Max Vel=2.7 fps Inflow=28.75 cfs 3.276 af
n=0.050 L=383.0' S=0.0222 '/' Capacity=662.00 cfs Outflow=28.45 cfs 3.266 af

Reach 169R: Peak Depth=0.83' Max Vel=2.7 fps Inflow=32.10 cfs 7.889 af
n=0.040 L=450.0' S=0.0122 '/' Capacity=614.09 cfs Outflow=31.88 cfs 7.824 af

Reach 170R: Peak Depth=1.27' Max Vel=2.4 fps Inflow=58.39 cfs 11.090 af
n=0.040 L=910.0' S=0.0060 '/' Capacity=431.84 cfs Outflow=56.23 cfs 10.911 af

Reach 171R: Peak Depth=0.20' Max Vel=3.7 fps Inflow=6.00 cfs 0.611 af
n=0.030 L=173.0' S=0.0631 '/' Capacity=1,860.74 cfs Outflow=5.95 cfs 0.611 af

Reach 172R: Peak Depth=1.05' Max Vel=4.5 fps Inflow=79.48 cfs 16.691 af
n=0.040 L=978.0' S=0.0266 '/' Capacity=905.68 cfs Outflow=78.57 cfs 16.600 af

Reach 173R: Peak Depth=0.41' Max Vel=2.3 fps Inflow=9.57 cfs 0.898 af
n=0.040 L=235.0' S=0.0196 '/' Capacity=777.99 cfs Outflow=9.35 cfs 0.896 af

Reach 206R: Peak Depth=0.75' Max Vel=1.8 fps Inflow=18.58 cfs 1.577 af
n=0.040 L=77.0' S=0.0065 '/' Capacity=447.61 cfs Outflow=18.19 cfs 1.575 af

Reach 306R: Default Culvert Peak Depth=1.13' Max Vel=6.4 fps Inflow=18.61 cfs 1.577 af
D=48.0" n=0.011 L=25.0' S=0.0040 '/' Capacity=107.37 cfs Outflow=18.58 cfs 1.577 af

Reach 319R: Default Culvert Peak Depth=0.81' Max Vel=5.3 fps Inflow=9.58 cfs 0.898 af
D=48.0" n=0.011 L=25.0' S=0.0040 '/' Capacity=107.37 cfs Outflow=9.57 cfs 0.898 af

Reach 366R: Peak Depth=0.17' Max Vel=1.8 fps Inflow=2.31 cfs 1.203 af
n=0.040 L=401.0' S=0.0339 '/' Capacity=1,022.20 cfs Outflow=2.31 cfs 1.199 af

Reach 367R: Peak Depth=0.20' Max Vel=2.8 fps Inflow=4.51 cfs 2.369 af
n=0.040 L=152.0' S=0.0676 '/' Capacity=1,443.85 cfs Outflow=4.51 cfs 2.367 af

Reach 460R: Peak Depth=0.99' Max Vel=1.5 fps Inflow=24.04 cfs 2.706 af
n=0.050 L=410.0' S=0.0049 '/' Capacity=310.36 cfs Outflow=23.29 cfs 2.689 af

Reach 462R: Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.050 L=434.0' S=0.0092 '/' Capacity=426.61 cfs Outflow=0.00 cfs 0.000 af

Reach 463R: Peak Depth=3.22' Max Vel=1.6 fps Inflow=199.46 cfs 45.743 af
n=0.040 L=673.0' S=0.0009 '/' Capacity=165.85 cfs Outflow=195.47 cfs 44.935 af

Reach 464R: Peak Depth=0.24' Max Vel=2.8 fps Inflow=5.64 cfs 0.591 af
n=0.040 L=425.0' S=0.0518 '/' Capacity=1,263.79 cfs Outflow=5.56 cfs 0.588 af

Reach 465R: Peak Depth=0.41' Max Vel=3.7 fps Inflow=15.26 cfs 1.627 af
n=0.040 L=319.0' S=0.0502 '/' Capacity=1,244.01 cfs Outflow=15.13 cfs 1.623 af

Reach 466R: Peak Depth=0.45' Max Vel=0.7 fps Inflow=3.11 cfs 1.631 af
n=0.050 L=461.0' S=0.0024 '/' Capacity=217.07 cfs Outflow=3.10 cfs 1.599 af

Reach 468R: Peak Depth=0.53' Max Vel=2.6 fps Inflow=15.56 cfs 6.173 af
n=0.040 L=333.0' S=0.0185 '/' Capacity=754.87 cfs Outflow=15.53 cfs 6.149 af

Reach 469R: Peak Depth=0.18' Max Vel=1.5 fps Inflow=2.12 cfs 1.775 af
n=0.040 L=400.0' S=0.0213 '/' Capacity=810.20 cfs Outflow=2.06 cfs 1.750 af

Reach 470R: Peak Depth=0.22' Max Vel=2.4 fps Inflow=4.48 cfs 0.548 af
n=0.030 L=336.0' S=0.0238 '/' Capacity=1,142.81 cfs Outflow=4.45 cfs 0.546 af

Reach 471R: Peak Depth=0.47' Max Vel=3.2 fps Inflow=4.45 cfs 0.546 af
n=0.030 L=669.0' S=0.0209 '/' Capacity=111.75 cfs Outflow=4.40 cfs 0.544 af

Reach 472R: Peak Depth=0.78' Max Vel=0.5 fps Inflow=5.72 cfs 3.611 af
n=0.050 L=105.0' S=0.0008 '/' Capacity=122.66 cfs Outflow=5.48 cfs 3.600 af

Reach 473R: Peak Depth=2.15' Max Vel=3.1 fps Inflow=180.30 cfs 37.654 af
n=0.050 L=309.0' S=0.0083 '/' Capacity=405.26 cfs Outflow=179.69 cfs 37.513 af

Reach 637R: Default Reach Peak Depth=1.12' Max Vel=4.1 fps Inflow=39.82 cfs 5.397 af
n=0.030 L=1,153.0' S=0.0116 '/' Capacity=394.65 cfs Outflow=39.02 cfs 5.364 af

Reach 638R: Default Reach Peak Depth=1.51' Max Vel=4.5 fps Inflow=72.70 cfs 10.094 af
n=0.030 L=1,333.0' S=0.0100 '/' Capacity=367.04 cfs Outflow=71.22 cfs 10.026 af

Reach CR23: CUL-020 Peak Depth=1.25' Max Vel=4.2 fps Inflow=19.65 cfs 2.370 af
D=15.0" n=0.025 L=90.0' S=0.0180 '/' Capacity=4.51 cfs Outflow=4.51 cfs 2.369 af

Reach CR24: CUL-021 Peak Depth=2.50' Max Vel=0.5 fps Inflow=9.61 cfs 1.206 af
D=30.0" n=0.025 L=85.0' S=0.0001 '/' Capacity=2.31 cfs Outflow=2.31 cfs 1.203 af

Reach CR27: CUL-024 Peak Depth=1.25' Max Vel=3.5 fps Inflow=13.40 cfs 1.450 af
D=15.0" n=0.024 L=25.0' S=0.0116 '/' Capacity=2.68 cfs Outflow=2.83 cfs 1.450 af

Reach CR49: CUL-043 Peak Depth=0.67' Max Vel=3.2 fps Inflow=16.21 cfs 2.016 af
D=8.0" n=0.010 L=25.0' S=0.0040 '/' Capacity=0.99 cfs Outflow=1.04 cfs 0.845 af

Reach CR50: CUL-044 Peak Depth=1.00' Max Vel=7.9 fps Inflow=28.32 cfs 3.612 af
D=12.0" n=0.010 L=30.0' S=0.0140 '/' Capacity=5.48 cfs Outflow=5.72 cfs 3.611 af

Reach CR51: CUL-045 Peak Depth=1.00' Max Vel=2.9 fps Inflow=23.27 cfs 3.063 af
D=12.0" n=0.024 L=20.0' S=0.0105 '/' Capacity=1.98 cfs Outflow=2.12 cfs 1.775 af

Reach CR52: CUL-046 Peak Depth=1.00' Max Vel=4.2 fps Inflow=8.05 cfs 1.002 af
D=12.0" n=0.024 L=20.0' S=0.0230 '/' Capacity=2.93 cfs Outflow=3.15 cfs 1.002 af

Reach CR54: CUL-048 Peak Depth=1.00' Max Vel=2.2 fps Inflow=7.72 cfs 0.893 af
D=12.0" n=0.024 L=40.0' S=0.0063 '/' Capacity=1.53 cfs Outflow=1.53 cfs 0.893 af

Reach CR56: CUL-050 Peak Depth=0.00' Max Vel=0.0 fps
D=18.0" n=0.010 L=40.0' S=0.0083 '/' Capacity=12.40 cfs Outflow=0.00 cfs 0.000 af

Pond 1P: Wetland Detention 29(Cul. ID 50) Peak Elev=13.83' Storage=6.000 af Inflow=236.32 cfs 49.370 af
Outflow=221.10 cfs 45.624 af

Pond 8P: Pond/Wetland Peak Elev=12.46' Storage=2.680 af Inflow=23.11 cfs 2.681 af
Outflow=0.00 cfs 0.000 af

Pond 22P: Wetland Detention 22(Cul. ID 4 Peak Elev=16.57' Storage=8.643 af Inflow=207.80 cfs 39.638 af
Outflow=171.64 cfs 33.745 af

Pond 23P: Wetland Detention 23(Cul. ID 47) Peak Elev=40.06' Storage=0.768 af Inflow=68.27 cfs 14.576 af
30.0" x 40.0' Culvert Outflow=90.14 cfs 14.517 af

Pond 24P: Wetland Detention 24(Cul. ID 25) Peak Elev=45.75' Storage=1.259 af Inflow=13.99 cfs 1.458 af
18.0" x 100.0' Culvert Outflow=0.46 cfs 0.205 af

Pond 25P: Wetland Detention 25(Cul. ID 26) Peak Elev=35.81' Storage=3.126 af Inflow=41.80 cfs 6.549 af
Outflow=7.10 cfs 4.465 af

Pond 26P: Peak Elev=29.18' Inflow=4.91 cfs 0.462 af
12.0" x 146.0' Culvert Outflow=4.91 cfs 0.462 af

Pond 27P: Peak Elev=21.18' Inflow=4.91 cfs 0.462 af
12.0" x 36.0' Culvert Outflow=4.91 cfs 0.462 af

Pond 28P: Peak Elev=29.10' Inflow=9.50 cfs 0.899 af
12.0" x 248.0' Culvert Outflow=9.50 cfs 0.899 af

Pond 29P: Outlet G Peak Elev=135.27' Inflow=273.40 cfs 87.167 af
36.0" x 560.0' Culvert Outflow=273.40 cfs 87.167 af

Pond 45P: NOT DONE Peak Elev=98.00' Storage=0.000 af Inflow=62.97 cfs 12.712 af
Outflow=62.97 cfs 12.712 af

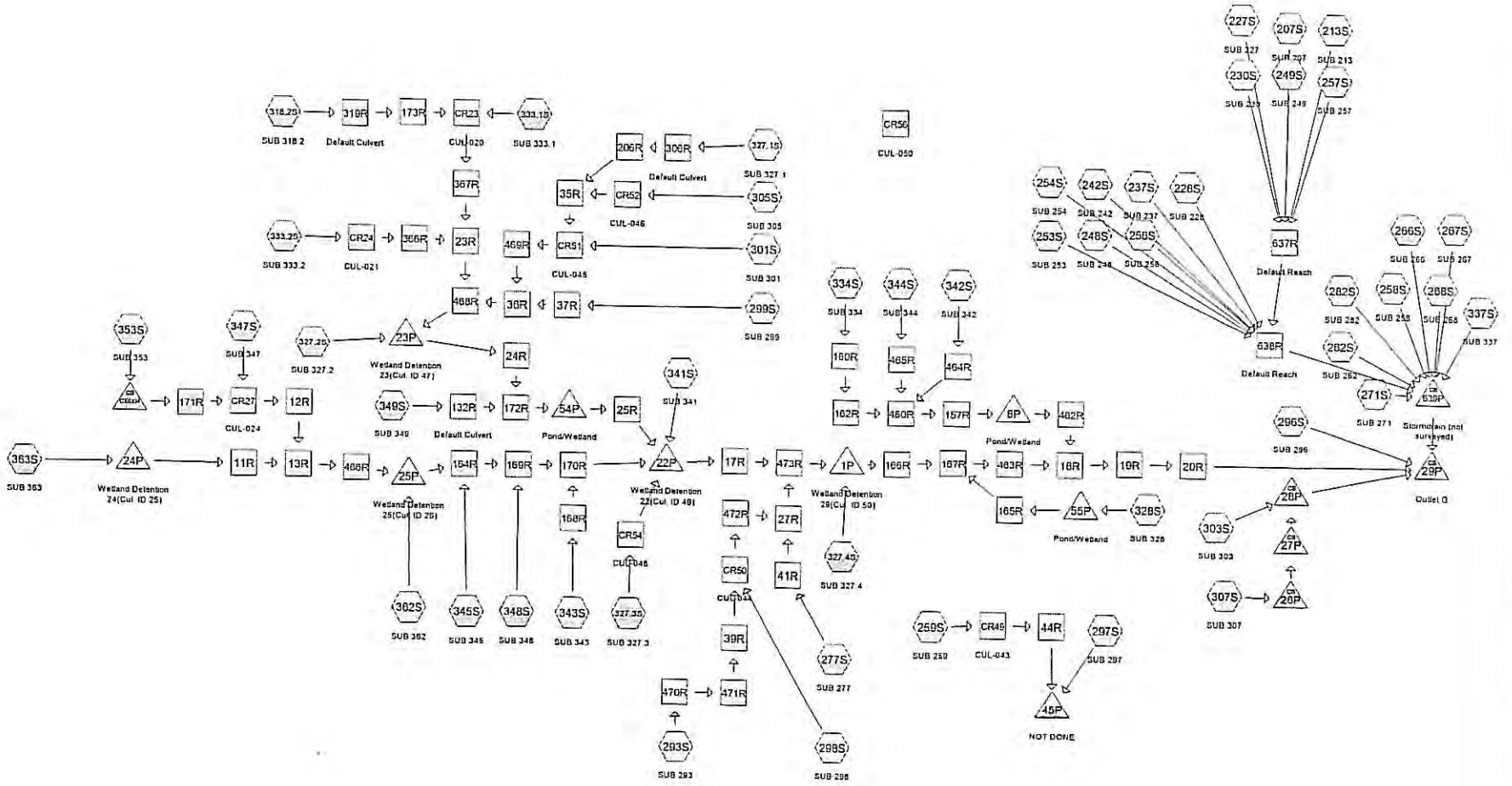
Pond 54P: Pond/Wetland Peak Elev=22.80' Storage=2.500 af Inflow=78.57 cfs 16.600 af
Outflow=96.46 cfs 14.138 af

Pond 55P: Pond/Wetland Peak Elev=18.02' Storage=0.005 af Inflow=15.62 cfs 1.753 af
Outflow=15.62 cfs 1.753 af

Pond 639P: Stormdrain (not surveyed) Peak Elev=30,609.81' Inflow=176.14 cfs 41.500 af
12.0" x 1,200.0' Culvert Outflow=176.14 cfs 41.500 af

Pond CB004: Peak Elev=2.48' Inflow=6.00 cfs 0.611 af
18.0" x 100.0' Culvert Outflow=6.00 cfs 0.611 af

Total Runoff Area = 517.720 ac Runoff Volume = 125.082 af Average Runoff Depth = 2.90"



Drainage Diagram for Area (G) (50 - Year)

Prepared by Edwards and Kelcey 7/5/2006

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 207S: SUB 207
Runoff Area=1.650 ac Runoff Depth>3.25"
Flow Length=400' Tc=27.7 min CN=79 Runoff=3.96 cfs 0.447 af

Subcatchment 213S: SUB 213
Runoff Area=2.110 ac Runoff Depth>3.06"
Flow Length=480' Tc=28.2 min CN=77 Runoff=4.75 cfs 0.538 af

Subcatchment 227S: SUB 227
Runoff Area=5.580 ac Runoff Depth>0.91"
Flow Length=1,156' Tc=32.8 min CN=50 Runoff=2.91 cfs 0.425 af

Subcatchment 228S: SUB 228
Runoff Area=0.850 ac Runoff Depth>0.32"
Flow Length=357' Tc=19.0 min CN=39 Runoff=0.10 cfs 0.023 af

Subcatchment 230S: SUB 230
Runoff Area=2.890 ac Runoff Depth>3.85"
Flow Length=340' Tc=28.5 min CN=85 Runoff=7.95 cfs 0.927 af

Subcatchment 237S: SUB 237
Runoff Area=1.980 ac Runoff Depth>0.32"
Flow Length=764' Tc=28.6 min CN=39 Runoff=0.20 cfs 0.052 af

Subcatchment 242S: SUB 242
Runoff Area=3.980 ac Runoff Depth>1.61"
Flow Length=333' Tc=34.9 min CN=60 Runoff=4.12 cfs 0.534 af

Subcatchment 248S: SUB 248
Runoff Area=3.590 ac Runoff Depth>2.26"
Flow Length=840' Tc=22.7 min CN=68 Runoff=6.51 cfs 0.677 af

Subcatchment 249S: SUB 249
Runoff Area=5.960 ac Runoff Depth>3.23"
Flow Length=677' Tc=47.4 min CN=79 Runoff=10.99 cfs 1.605 af

Subcatchment 253S: SUB 253
Runoff Area=2.150 ac Runoff Depth>2.89"
Flow Length=325' Tc=16.5 min CN=75 Runoff=5.68 cfs 0.517 af

Subcatchment 254S: SUB 254
Runoff Area=7.440 ac Runoff Depth>3.14"
Flow Length=906' Tc=39.6 min CN=78 Runoff=14.69 cfs 1.950 af

Subcatchment 256S: SUB 256
Runoff Area=6.660 ac Runoff Depth>2.87"
Flow Length=642' Tc=36.3 min CN=75 Runoff=12.53 cfs 1.592 af

Subcatchment 257S: SUB 257
Runoff Area=6.480 ac Runoff Depth>3.84"
Flow Length=1,154' Tc=35.6 min CN=85 Runoff=16.07 cfs 2.075 af

Subcatchment 258S: SUB 258
Runoff Area=0.820 ac Runoff Depth>4.16"
Flow Length=345' Tc=26.8 min CN=88 Runoff=2.47 cfs 0.285 af

Subcatchment 259S: SUB 259
Runoff Area=7.800 ac Runoff Depth>3.44"
Flow Length=630' Tc=34.2 min CN=81 Runoff=17.94 cfs 2.237 af

Subcatchment 262S: SUB 262
Runoff Area=1.150 ac Runoff Depth>4.27"
Flow Length=220' Tc=25.2 min CN=89 Runoff=3.62 cfs 0.409 af

Subcatchment 266S: SUB 266
Runoff Area=3.360 ac Runoff Depth>3.08"
Flow Length=247' Tc=16.0 min CN=77 Runoff=9.58 cfs 0.861 af

Subcatchment 267S: SUB 267
Runoff Area=1.740 ac Runoff Depth>3.36"
Flow Length=599' Tc=22.0 min CN=80 Runoff=4.74 cfs 0.487 af

Subcatchment 268S: SUB 268
Runoff Area=1.040 ac Runoff Depth>3.37"
Flow Length=260' Tc=13.7 min CN=80 Runoff=3.41 cfs 0.292 af

Subcatchment 271S: SUB 271
Runoff Area=0.670 ac Runoff Depth>4.18"
Flow Length=150' Tc=12.6 min CN=88 Runoff=2.72 cfs 0.233 af

Subcatchment 277S: SUB 277
Runoff Area=2.360 ac Runoff Depth>3.55"
Flow Length=430' Tc=26.7 min CN=82 Runoff=6.23 cfs 0.698 af

Subcatchment 282S: SUB 282
Runoff Area=1.960 ac Runoff Depth>4.28"
Flow Length=202' Tc=17.3 min CN=89 Runoff=7.19 cfs 0.699 af

Subcatchment 293S: SUB 293
Runoff Area=2.120 ac Runoff Depth>3.44"
Flow Length=415' Tc=33.0 min CN=81 Runoff=4.96 cfs 0.608 af

Subcatchment 296S: SUB 296
Runoff Area=1.180 ac Runoff Depth>5.15"
Flow Length=110' Tc=6.4 min CN=98 Runoff=6.49 cfs 0.506 af

Subcatchment 297S: SUB 297
Runoff Area=50.010 ac Runoff Depth>3.20"
Flow Length=1,443' Tc=77.5 min CN=79 Runoff=68.95 cfs 13.322 af

Subcatchment 298S: SUB 298
Runoff Area=12.240 ac Runoff Depth>3.35"
Flow Length=1,244' Tc=31.2 min CN=80 Runoff=28.61 cfs 3.414 af

Subcatchment 299S: SUB 299
Runoff Area=3.640 ac Runoff Depth>3.54"
Flow Length=461' Tc=36.3 min CN=82 Runoff=8.33 cfs 1.073 af

Subcatchment 301S: SUB 301
Runoff Area=1.790 ac Runoff Depth>3.64"
Flow Length=260' Tc=32.7 min CN=83 Runoff=4.42 cfs 0.543 af

Subcatchment 303S: SUB 303
Runoff Area=1.270 ac Runoff Depth>4.49"
Flow Length=345' Tc=16.0 min CN=91 Runoff=4.98 cfs 0.475 af

Subcatchment 305S: SUB 305
Runoff Area=4.000 ac Runoff Depth>3.34"
Flow Length=450' Tc=34.5 min CN=80 Runoff=8.92 cfs 1.114 af

Subcatchment 307S: SUB 307
Runoff Area=1.380 ac Runoff Depth>4.39"
Flow Length=107' Tc=15.9 min CN=90 Runoff=5.34 cfs 0.504 af

Subcatchment 318.2S: SUB 318.2 Runoff Area=2.680 ac Runoff Depth>4.39"
Flow Length=304' Tc=15.7 min CN=90 Runoff=10.41 cfs 0.980 af

Subcatchment 327.1S: SUB 327.1 Runoff Area=4.370 ac Runoff Depth>4.70"
Flow Length=430' Tc=10.9 min CN=93 Runoff=20.11 cfs 1.712 af

Subcatchment 327.2S: SUB 327.2 Runoff Area=36.060 ac Runoff Depth>3.13"
Flow Length=1,650' Tc=53.1 min CN=78 Runoff=60.79 cfs 9.405 af

Subcatchment 327.3S: SUB 327.3 Runoff Area=3.790 ac Runoff Depth>3.16"
Flow Length=350' Tc=29.6 min CN=78 Runoff=8.60 cfs 0.997 af

Subcatchment 327.4S: SUB 327.4 Runoff Area=53.090 ac Runoff Depth>3.00"
Flow Length=1,575' Tc=85.4 min CN=77 Runoff=64.81 cfs 13.263 af

Subcatchment 328S: SUB 328 Runoff Area=7.680 ac Runoff Depth>3.06"
Flow Length=1,143' Tc=27.6 min CN=77 Runoff=17.44 cfs 1.960 af

Subcatchment 333.1S: SUB 333.1 Runoff Area=4.790 ac Runoff Depth>4.05"
Flow Length=355' Tc=32.4 min CN=87 Runoff=12.96 cfs 1.618 af

Subcatchment 333.2S: SUB 333.2 Runoff Area=3.920 ac Runoff Depth>4.05"
Flow Length=727' Tc=33.2 min CN=87 Runoff=10.50 cfs 1.324 af

Subcatchment 334S: SUB 334 Runoff Area=1.990 ac Runoff Depth>3.35"
Flow Length=259' Tc=25.1 min CN=80 Runoff=5.13 cfs 0.556 af

Subcatchment 337S: SUB 337 Runoff Area=116.470 ac Runoff Depth>3.27"
Flow Length=2,050' Tc=97.2 min CN=80 Runoff=142.40 cfs 31.715 af

Subcatchment 341S: SUB 341 Runoff Area=59.230 ac Runoff Depth>3.12"
Flow Length=2,119' Tc=58.2 min CN=78 Runoff=94.50 cfs 15.420 af

Subcatchment 342S: SUB 342 Runoff Area=2.210 ac Runoff Depth>3.55"
Flow Length=588' Tc=23.0 min CN=82 Runoff=6.23 cfs 0.654 af

Subcatchment 343S: SUB 343 Runoff Area=11.570 ac Runoff Depth>3.75"
Flow Length=907' Tc=27.6 min CN=84 Runoff=31.60 cfs 3.615 af

Subcatchment 344S: SUB 344 Runoff Area=6.890 ac Runoff Depth>3.16"
Flow Length=507' Tc=24.4 min CN=78 Runoff=17.00 cfs 1.815 af

Subcatchment 345S: SUB 345 Runoff Area=2.820 ac Runoff Depth>3.35"
Flow Length=467' Tc=30.6 min CN=80 Runoff=6.66 cfs 0.787 af

Subcatchment 347S: SUB 347 Runoff Area=3.050 ac Runoff Depth>3.65"
Flow Length=320' Tc=26.0 min CN=83 Runoff=8.35 cfs 0.928 af

Subcatchment 348S: SUB 348 Runoff Area=11.040 ac Runoff Depth>3.34"
Flow Length=1,607' Tc=34.6 min CN=80 Runoff=24.59 cfs 3.075 af

Subcatchment 349S: SUB 349 Runoff Area=8.500 ac Runoff Depth>3.45"
Flow Length=384' Tc=29.9 min CN=81 Runoff=20.81 cfs 2.441 af

Subcatchment 353S: SUB 353 Runoff Area=1.980 ac Runoff Depth>4.07"
Flow Length=262' Tc=20.5 min CN=87 Runoff=6.55 cfs 0.671 af

Subcatchment 362S: SUB 362 Runoff Area=19.760 ac Runoff Depth>3.34"
Flow Length=1,259' Tc=35.3 min CN=80 Runoff=43.60 cfs 5.503 af

Subcatchment 363S: SUB 363 Runoff Area=5.980 ac Runoff Depth>3.26"
Flow Length=495' Tc=23.1 min CN=79 Runoff=15.54 cfs 1.624 af

Reach 11R: Peak Depth=0.12' Max Vel=1.2 fps Inflow=0.65 cfs 0.313 af
n=0.040 L=361.0' S=0.0192 '/' Capacity=221.89 cfs Outflow=0.65 cfs 0.305 af

Reach 12R: Peak Depth=0.23' Max Vel=1.4 fps Inflow=2.68 cfs 1.598 af
n=0.030 L=380.0' S=0.0073 '/' Capacity=634.61 cfs Outflow=2.68 cfs 1.591 af

Reach 13R: Peak Depth=0.42' Max Vel=1.6 fps Inflow=3.32 cfs 1.896 af
n=0.040 L=366.0' S=0.0082 '/' Capacity=144.99 cfs Outflow=3.32 cfs 1.883 af

Reach 17R: Peak Depth=2.18' Max Vel=3.3 fps Inflow=200.23 cfs 38.009 af
n=0.040 L=529.0' S=0.0061 '/' Capacity=433.37 cfs Outflow=199.27 cfs 37.790 af

Reach 18R: Peak Depth=5.70' Max Vel=2.7 fps Inflow=228.69 cfs 50.805 af
n=0.025 L=618.0' S=0.0008 '/' Capacity=51.18 cfs Outflow=227.02 cfs 50.346 af

Reach 19R: Peak Depth=3.68' Max Vel=4.5 fps Inflow=227.02 cfs 50.346 af
n=0.025 L=207.0' S=0.0024 '/' Capacity=88.43 cfs Outflow=226.74 cfs 50.244 af

Reach 20R: Peak Depth=3.84' Max Vel=4.2 fps Inflow=226.74 cfs 50.244 af
n=0.025 L=232.0' S=0.0022 '/' Capacity=83.53 cfs Outflow=226.49 cfs 50.125 af

Reach 23R: Peak Depth=0.41' Max Vel=1.6 fps Inflow=6.83 cfs 3.909 af
n=0.040 L=402.0' S=0.0100 '/' Capacity=554.08 cfs Outflow=6.82 cfs 3.894 af

Reach 24R: Peak Depth=1.42' Max Vel=2.6 fps Inflow=96.79 cfs 15.977 af
n=0.040 L=174.0' S=0.0063 '/' Capacity=441.65 cfs Outflow=75.04 cfs 15.951 af

Reach 25R: Peak Depth=1.46' Max Vel=2.9 fps Inflow=124.18 cfs 15.873 af
n=0.050 L=697.0' S=0.0115 '/' Capacity=476.08 cfs Outflow=85.95 cfs 15.750 af

Reach 27R: Peak Depth=0.81' Max Vel=0.9 fps Inflow=11.05 cfs 4.689 af
n=0.050 L=966.0' S=0.0022 '/' Capacity=207.19 cfs Outflow=10.05 cfs 4.459 af

Reach 35R: Peak Depth=0.64' Max Vel=2.8 fps Inflow=22.60 cfs 2.824 af
n=0.040 L=301.0' S=0.0175 '/' Capacity=735.69 cfs Outflow=21.81 cfs 2.818 af

Reach 36R: Peak Depth=0.59' Max Vel=1.3 fps Inflow=10.27 cfs 2.859 af
n=0.040 L=993.0' S=0.0045 '/' Capacity=373.93 cfs Outflow=9.48 cfs 2.764 af

Reach 37R: Peak Depth=0.34' Max Vel=2.6 fps Inflow=8.33 cfs 1.073 af
n=0.040 L=370.0' S=0.0324 '/' Capacity=1,000.34 cfs Outflow=8.29 cfs 1.070 af

Reach 39R: Peak Depth=0.22' Max Vel=2.7 fps Inflow=4.87 cfs 0.603 af
n=0.030 L=537.0' S=0.0324 '/' Capacity=1,333.17 cfs Outflow=4.82 cfs 0.600 af

Reach 41R: Peak Depth=0.39' Max Vel=1.5 fps Inflow=6.23 cfs 0.698 af
n=0.040 L=912.0' S=0.0087 '/' Capacity=516.98 cfs Outflow=5.57 cfs 0.688 af

Reach 44R: Peak Depth=0.20' Max Vel=0.6 fps Inflow=1.05 cfs 0.866 af
n=0.040 L=1,232.0' S=0.0033 '/' Capacity=320.44 cfs Outflow=0.99 cfs 0.777 af

Reach 132R: Default Culvert Peak Depth=1.19' Max Vel=6.6 fps Inflow=20.81 cfs 2.441 af
D=48.0" n=0.011 L=25.0' S=0.0040 '/' Capacity=107.37 cfs Outflow=20.81 cfs 2.441 af

Reach 157R: Peak Depth=0.75' Max Vel=2.6 fps Inflow=25.96 cfs 2.995 af
n=0.050 L=300.0' S=0.0200 '/' Capacity=628.44 cfs Outflow=25.76 cfs 2.987 af

Reach 160R: Peak Depth=0.32' Max Vel=1.7 fps Inflow=5.13 cfs 0.556 af
n=0.040 L=290.0' S=0.0138 '/' Capacity=652.36 cfs Outflow=5.06 cfs 0.554 af

Reach 162R: Peak Depth=0.24' Max Vel=2.4 fps Inflow=5.06 cfs 0.554 af
n=0.040 L=637.0' S=0.0408 '/' Capacity=1,122.22 cfs Outflow=4.92 cfs 0.550 af

Reach 164R: Peak Depth=0.44' Max Vel=2.5 fps Inflow=11.51 cfs 5.516 af
n=0.040 L=412.0' S=0.0210 '/' Capacity=804.86 cfs Outflow=11.47 cfs 5.459 af

Reach 165R: Peak Depth=0.53' Max Vel=2.8 fps Inflow=17.44 cfs 1.960 af
n=0.040 L=675.0' S=0.0224 '/' Capacity=830.80 cfs Outflow=17.04 cfs 1.949 af

Reach 166R: Peak Depth=4.97' Max Vel=1.0 fps Inflow=257.15 cfs 51.513 af
n=0.040 L=775.0' S=0.0003 '/' Capacity=89.23 cfs Outflow=231.27 cfs 49.994 af

Reach 167R: Peak Depth=3.26' Max Vel=1.9 fps Inflow=233.76 cfs 51.943 af
n=0.040 L=248.0' S=0.0012 '/' Capacity=193.19 cfs Outflow=233.20 cfs 51.667 af

Reach 168R: Peak Depth=0.80' Max Vel=2.8 fps Inflow=31.60 cfs 3.615 af
n=0.050 L=383.0' S=0.0222 '/' Capacity=662.00 cfs Outflow=31.27 cfs 3.604 af

Reach 169R: Peak Depth=0.87' Max Vel=2.7 fps Inflow=35.61 cfs 8.535 af
n=0.040 L=450.0' S=0.0122 '/' Capacity=614.09 cfs Outflow=35.36 cfs 8.463 af

Reach 170R: Peak Depth=1.32' Max Vel=2.4 fps Inflow=64.56 cfs 12.067 af
n=0.040 L=910.0' S=0.0060 '/' Capacity=431.84 cfs Outflow=62.31 cfs 11.869 af

Reach 171R: Peak Depth=0.21' Max Vel=3.8 fps Inflow=6.55 cfs 0.671 af
n=0.030 L=173.0' S=0.0631 '/' Capacity=1,860.74 cfs Outflow=6.50 cfs 0.670 af

Reach 172R: Peak Depth=1.10' Max Vel=4.6 fps Inflow=87.47 cfs 18.391 af
n=0.040 L=978.0' S=0.0266 '/' Capacity=905.68 cfs Outflow=86.84 cfs 18.296 af

Reach 173R: Peak Depth=0.43' Max Vel=2.3 fps Inflow=10.39 cfs 0.980 af
n=0.040 L=235.0' S=0.0196 '/' Capacity=777.99 cfs Outflow=10.16 cfs 0.977 af

Reach 206R: Peak Depth=0.78' Max Vel=1.9 fps Inflow=20.08 cfs 1.711 af
n=0.040 L=77.0' S=0.0065 '/' Capacity=447.61 cfs Outflow=19.67 cfs 1.710 af

Reach 306R: Default Culvert Peak Depth=1.17' Max Vel=6.5 fps Inflow=20.11 cfs 1.712 af
D=48.0" n=0.011 L=25.0' S=0.0040 '/' Capacity=107.37 cfs Outflow=20.08 cfs 1.711 af

Reach 319R: Default Culvert Peak Depth=0.84' Max Vel=5.4 fps Inflow=10.41 cfs 0.980 af
D=48.0" n=0.011 L=25.0' S=0.0040 '/' Capacity=107.37 cfs Outflow=10.39 cfs 0.980 af

Reach 366R: Peak Depth=0.17' Max Vel=1.8 fps Inflow=2.44 cfs 1.321 af
n=0.040 L=401.0' S=0.0339 '/' Capacity=1,022.20 cfs Outflow=2.35 cfs 1.316 af

Reach 367R: Peak Depth=0.20' Max Vel=2.8 fps Inflow=4.51 cfs 2.595 af
n=0.040 L=152.0' S=0.0676 '/' Capacity=1,443.85 cfs Outflow=4.51 cfs 2.592 af

Reach 460R: Peak Depth=1.04' Max Vel=1.5 fps Inflow=26.77 cfs 3.013 af
n=0.050 L=410.0' S=0.0049 '/' Capacity=310.36 cfs Outflow=25.96 cfs 2.995 af

Reach 462R: Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.050 L=434.0' S=0.0092 '/' Capacity=426.61 cfs Outflow=0.00 cfs 0.000 af

Reach 463R: Peak Depth=3.47' Max Vel=1.6 fps Inflow=233.20 cfs 51.667 af
n=0.040 L=673.0' S=0.0009 '/' Capacity=165.85 cfs Outflow=228.69 cfs 50.805 af

Reach 464R: Peak Depth=0.25' Max Vel=2.8 fps Inflow=6.23 cfs 0.654 af
n=0.040 L=425.0' S=0.0518 '/' Capacity=1,263.79 cfs Outflow=6.14 cfs 0.652 af

Reach 465R: Peak Depth=0.43' Max Vel=3.8 fps Inflow=17.00 cfs 1.815 af
n=0.040 L=319.0' S=0.0502 '/' Capacity=1,244.01 cfs Outflow=16.85 cfs 1.811 af

Reach 466R: Peak Depth=0.46' Max Vel=0.7 fps Inflow=3.32 cfs 1.883 af
n=0.050 L=461.0' S=0.0024 '/' Capacity=217.07 cfs Outflow=3.32 cfs 1.846 af

Reach 468R: Peak Depth=0.55' Max Vel=2.6 fps Inflow=16.30 cfs 6.658 af
n=0.040 L=333.0' S=0.0185 '/' Capacity=754.87 cfs Outflow=16.26 cfs 6.634 af

Reach 469R: Peak Depth=0.18' Max Vel=1.5 fps Inflow=2.13 cfs 1.814 af
n=0.040 L=400.0' S=0.0213 '/' Capacity=810.20 cfs Outflow=2.06 cfs 1.790 af

Reach 470R: Peak Depth=0.24' Max Vel=2.5 fps Inflow=4.96 cfs 0.608 af
n=0.030 L=336.0' S=0.0238 '/' Capacity=1,142.81 cfs Outflow=4.92 cfs 0.606 af

Reach 471R: Peak Depth=0.49' Max Vel=3.3 fps Inflow=4.92 cfs 0.606 af
n=0.030 L=669.0' S=0.0209 '/' Capacity=111.75 cfs Outflow=4.87 cfs 0.603 af

Reach 472R: Peak Depth=0.78' Max Vel=0.5 fps Inflow=5.62 cfs 4.014 af
n=0.050 L=105.0' S=0.0008 '/' Capacity=122.66 cfs Outflow=5.48 cfs 4.001 af

Reach 473R: Peak Depth=2.28' Max Vel=3.2 fps Inflow=209.32 cfs 42.249 af
n=0.050 L=309.0' S=0.0083 '/' Capacity=405.26 cfs Outflow=208.64 cfs 42.085 af

Reach 637R: Default Reach Peak Depth=1.18' Max Vel=4.2 fps Inflow=44.45 cfs 6.017 af
n=0.030 L=1,153.0' S=0.0116 '/' Capacity=394.65 cfs Outflow=43.55 cfs 5.982 af

Reach 638R: Default Reach Peak Depth=1.59' Max Vel=4.6 fps Inflow=81.73 cfs 11.326 af
n=0.030 L=1,333.0' S=0.0100 '/' Capacity=367.04 cfs Outflow=80.11 cfs 11.254 af

Reach CR23: CUL-020 Peak Depth=1.25' Max Vel=4.2 fps Inflow=21.41 cfs 2.595 af
D=15.0" n=0.025 L=90.0' S=0.0180 '/' Capacity=4.51 cfs Outflow=4.51 cfs 2.595 af

Reach CR24: CUL-021 Peak Depth=2.50' Max Vel=0.5 fps Inflow=10.50 cfs 1.324 af
D=30.0" n=0.025 L=85.0' S=0.0001 '/' Capacity=2.31 cfs Outflow=2.44 cfs 1.321 af

Reach CR27: CUL-024 Peak Depth=1.25' Max Vel=3.5 fps Inflow=14.73 cfs 1.598 af
D=15.0" n=0.024 L=25.0' S=0.0116 '/' Capacity=2.68 cfs Outflow=2.68 cfs 1.598 af

Reach CR49: CUL-043 Peak Depth=0.67' Max Vel=3.2 fps Inflow=17.94 cfs 2.237 af
D=8.0" n=0.010 L=25.0' S=0.0040 '/' Capacity=0.99 cfs Outflow=1.05 cfs 0.866 af

Reach CR50: CUL-044 Peak Depth=1.00' Max Vel=7.9 fps Inflow=31.49 cfs 4.014 af
D=12.0" n=0.010 L=30.0' S=0.0140 '/' Capacity=5.48 cfs Outflow=5.62 cfs 4.014 af

Reach CR51: CUL-045 Peak Depth=1.00' Max Vel=2.9 fps Inflow=24.97 cfs 3.361 af
D=12.0" n=0.024 L=20.0' S=0.0105 '/' Capacity=1.98 cfs Outflow=2.13 cfs 1.814 af

Reach CR52: CUL-046 Peak Depth=1.00' Max Vel=4.2 fps Inflow=8.92 cfs 1.114 af
D=12.0" n=0.024 L=20.0' S=0.0230 '/' Capacity=2.93 cfs Outflow=2.93 cfs 1.114 af

Reach CR54: CUL-048 Peak Depth=1.00' Max Vel=2.2 fps Inflow=8.60 cfs 0.997 af
D=12.0" n=0.024 L=40.0' S=0.0063 '/' Capacity=1.53 cfs Outflow=1.53 cfs 0.996 af

Reach CR56: CUL-050 Peak Depth=0.00' Max Vel=0.0 fps
D=18.0" n=0.010 L=40.0' S=0.0083 '/' Capacity=12.40 cfs Outflow=0.00 cfs 0.000 af

Pond 1P: Wetland Detention 29(Cul. ID 50) Peak Elev=13.93' Storage=6.366 af Inflow=273.20 cfs 55.349 af
Outflow=257.15 cfs 51.513 af

Pond 8P: Pond/Wetland Peak Elev=12.73' Storage=2.985 af Inflow=25.76 cfs 2.987 af
Outflow=0.00 cfs 0.000 af

Pond 22P: Wetland Detention 22(Cul. ID 4 Peak Elev=16.65' Storage=9.017 af Inflow=233.73 cfs 44.036 af
Outflow=200.23 cfs 38.009 af

Pond 23P: Wetland Detention 23(Cul. ID 47) Peak Elev=42.29' Storage=0.768 af Inflow=75.14 cfs 16.039 af
30.0" x 40.0' Culvert Outflow=96.79 cfs 15.977 af

Pond 24P: Wetland Detention 24(Cul. ID 25) Peak Elev=45.84' Storage=1.339 af Inflow=15.54 cfs 1.624 af
18.0" x 100.0' Culvert Outflow=0.65 cfs 0.313 af

Pond 25P: Wetland Detention 25(Cul. ID 26) Peak Elev=35.95' Storage=3.556 af Inflow=46.14 cfs 7.349 af
Outflow=7.27 cfs 4.729 af

Pond 26P: Peak Elev=29.49' Inflow=5.34 cfs 0.504 af
12.0" x 146.0' Culvert Outflow=5.34 cfs 0.504 af

Pond 27P: Peak Elev=21.49' Inflow=5.34 cfs 0.504 af
12.0" x 36.0' Culvert Outflow=5.34 cfs 0.504 af

Pond 28P: Peak Elev=32.86' Inflow=10.32 cfs 0.980 af
12.0" x 248.0' Culvert Outflow=10.32 cfs 0.980 af

Pond 29P: Outlet G Peak Elev=183.13' Inflow=320.03 cfs 97.846 af
36.0" x 560.0' Culvert Outflow=320.03 cfs 97.846 af

Pond 45P: NOT DONE Peak Elev=98.00' Storage=0.000 af Inflow=69.94 cfs 14.099 af
Outflow=69.94 cfs 14.099 af

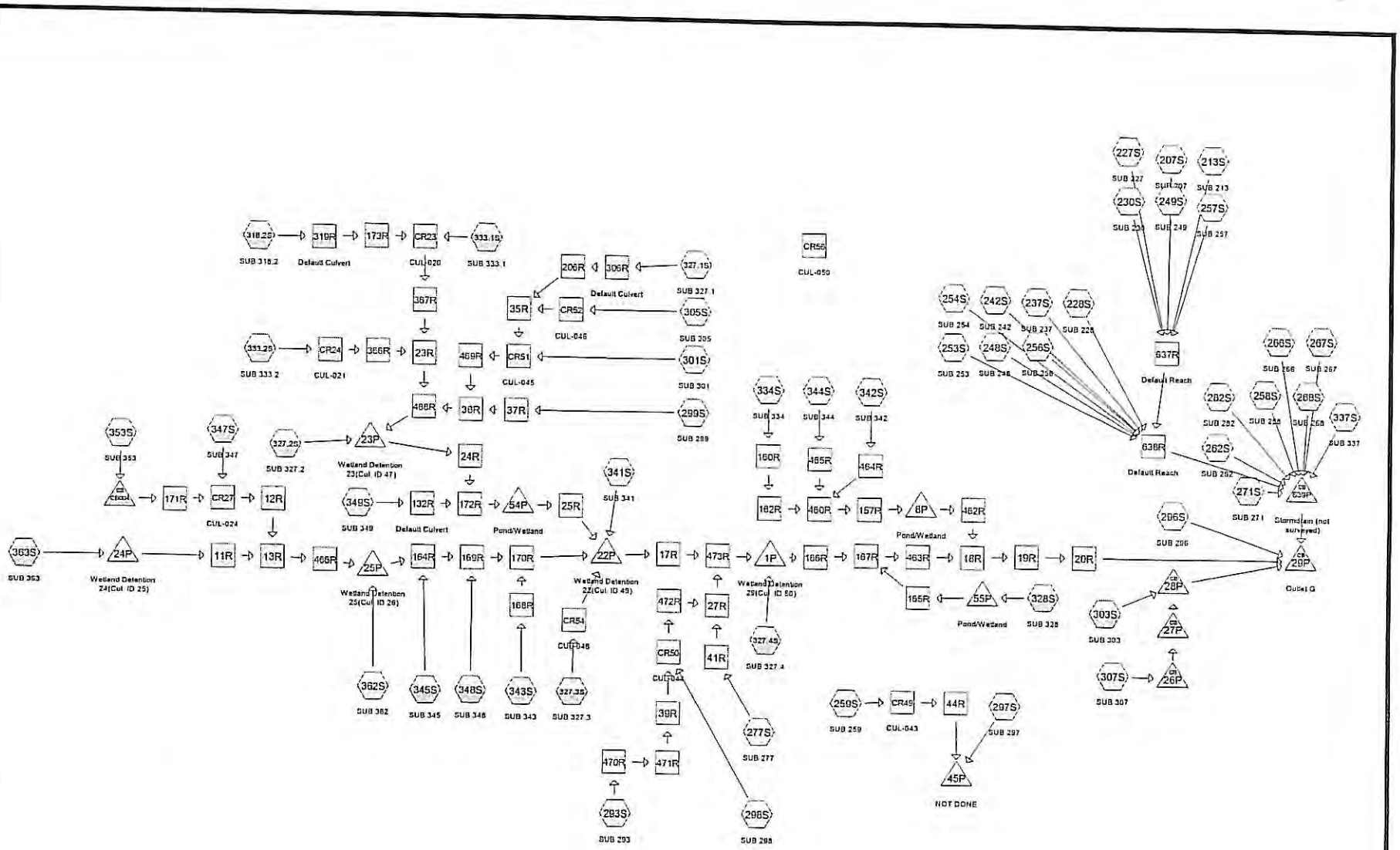
Pond 54P: Pond/Wetland Peak Elev=22.95' Storage=2.500 af Inflow=86.84 cfs 18.296 af
Outflow=124.18 cfs 15.873 af

Pond 55P: Pond/Wetland Peak Elev=18.02' Storage=0.005 af Inflow=17.44 cfs 1.960 af
Outflow=17.44 cfs 1.960 af

Pond 639P: Stormdrain (not surveyed) Peak Elev=37,776.30' Inflow=195.69 cfs 46.235 af
12.0" x 1,200.0' Culvert Outflow=195.69 cfs 46.235 af

Pond CB004: Peak Elev=2.76' Inflow=6.55 cfs 0.671 af
18.0" x 100.0' Culvert Outflow=6.55 cfs 0.671 af

Total Runoff Area = 517.720 ac Runoff Volume = 139.186 af Average Runoff Depth = 3.23"



Drainage Diagram for Area (G) (100 - Year)

Prepared by Edwards and Kelcey 7/5/2006

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 207S: SUB 207 Runoff Area=1.650 ac Runoff Depth>3.93"
Flow Length=400' Tc=27.7 min CN=79 Runoff=4.76 cfs 0.541 af

Subcatchment 213S: SUB 213 Runoff Area=2.110 ac Runoff Depth>3.72"
Flow Length=480' Tc=28.2 min CN=77 Runoff=5.75 cfs 0.655 af

Subcatchment 227S: SUB 227 Runoff Area=5.580 ac Runoff Depth>1.28"
Flow Length=1,156' Tc=32.8 min CN=50 Runoff=4.36 cfs 0.595 af

Subcatchment 228S: SUB 228 Runoff Area=0.850 ac Runoff Depth>0.53"
Flow Length=357' Tc=19.0 min CN=39 Runoff=0.22 cfs 0.038 af

Subcatchment 230S: SUB 230 Runoff Area=2.890 ac Runoff Depth>4.57"
Flow Length=340' Tc=28.5 min CN=85 Runoff=9.36 cfs 1.100 af

Subcatchment 237S: SUB 237 Runoff Area=1.980 ac Runoff Depth>0.53"
Flow Length=764' Tc=28.6 min CN=39 Runoff=0.45 cfs 0.087 af

Subcatchment 242S: SUB 242 Runoff Area=3.980 ac Runoff Depth>2.10"
Flow Length=333' Tc=34.9 min CN=60 Runoff=5.47 cfs 0.697 af

Subcatchment 248S: SUB 248 Runoff Area=3.590 ac Runoff Depth>2.84"
Flow Length=840' Tc=22.7 min CN=68 Runoff=8.23 cfs 0.851 af

Subcatchment 249S: SUB 249 Runoff Area=5.960 ac Runoff Depth>3.91"
Flow Length=677' Tc=47.4 min CN=79 Runoff=13.22 cfs 1.940 af

Subcatchment 253S: SUB 253 Runoff Area=2.150 ac Runoff Depth>3.54"
Flow Length=325' Tc=16.5 min CN=75 Runoff=6.94 cfs 0.634 af

Subcatchment 254S: SUB 254 Runoff Area=7.440 ac Runoff Depth>3.81"
Flow Length=906' Tc=39.6 min CN=78 Runoff=17.73 cfs 2.364 af

Subcatchment 256S: SUB 256 Runoff Area=6.660 ac Runoff Depth>3.51"
Flow Length=642' Tc=36.3 min CN=75 Runoff=15.30 cfs 1.949 af

Subcatchment 257S: SUB 257 Runoff Area=6.480 ac Runoff Depth>4.56"
Flow Length=1,154' Tc=35.6 min CN=85 Runoff=18.92 cfs 2.461 af

Subcatchment 258S: SUB 258 Runoff Area=0.820 ac Runoff Depth>4.89"
Flow Length=345' Tc=26.8 min CN=88 Runoff=2.88 cfs 0.334 af

Subcatchment 259S: SUB 259 Runoff Area=7.800 ac Runoff Depth>4.13"
Flow Length=630' Tc=34.2 min CN=81 Runoff=21.40 cfs 2.686 af

Subcatchment 262S: SUB 262 Runoff Area=1.150 ac Runoff Depth>5.00"
Flow Length=220' Tc=25.2 min CN=89 Runoff=4.21 cfs 0.480 af

Subcatchment 266S: SUB 266 Runoff Area=3.360 ac Runoff Depth>3.74"
Flow Length=247' Tc=16.0 min CN=77 Runoff=11.61 cfs 1.047 af

Subcatchment 267S: SUB 267 Runoff Area=1.740 ac Runoff Depth>4.04"
Flow Length=599' Tc=22.0 min CN=80 Runoff=5.68 cfs 0.586 af

Subcatchment 268S: SUB 268 Runoff Area=1.040 ac Runoff Depth>4.05"
Flow Length=260' Tc=13.7 min CN=80 Runoff=4.08 cfs 0.351 af

Subcatchment 271S: SUB 271 Runoff Area=0.670 ac Runoff Depth>4.91"
Flow Length=150' Tc=12.6 min CN=88 Runoff=3.17 cfs 0.274 af

Subcatchment 277S: SUB 277 Runoff Area=2.360 ac Runoff Depth>4.25"
Flow Length=430' Tc=26.7 min CN=82 Runoff=7.41 cfs 0.835 af

Subcatchment 282S: SUB 282 Runoff Area=1.960 ac Runoff Depth>5.01"
Flow Length=202' Tc=17.3 min CN=89 Runoff=8.35 cfs 0.819 af

Subcatchment 293S: SUB 293 Runoff Area=2.120 ac Runoff Depth>4.13"
Flow Length=415' Tc=33.0 min CN=81 Runoff=5.92 cfs 0.730 af

Subcatchment 296S: SUB 296 Runoff Area=1.180 ac Runoff Depth>5.87"
Flow Length=110' Tc=6.4 min CN=98 Runoff=7.39 cfs 0.578 af

Subcatchment 297S: SUB 297 Runoff Area=50.010 ac Runoff Depth>3.86"
Flow Length=1,443' Tc=77.5 min CN=79 Runoff=83.04 cfs 16.107 af

Subcatchment 298S: SUB 298 Runoff Area=12.240 ac Runoff Depth>4.03"
Flow Length=1,244' Tc=31.2 min CN=80 Runoff=34.27 cfs 4.112 af

Subcatchment 299S: SUB 299 Runoff Area=3.640 ac Runoff Depth>4.23"
Flow Length=461' Tc=36.3 min CN=82 Runoff=9.91 cfs 1.285 af

Subcatchment 301S: SUB 301 Runoff Area=1.790 ac Runoff Depth>4.35"
Flow Length=260' Tc=32.7 min CN=83 Runoff=5.24 cfs 0.648 af

Subcatchment 303S: SUB 303 Runoff Area=1.270 ac Runoff Depth>5.23"
Flow Length=345' Tc=16.0 min CN=91 Runoff=5.75 cfs 0.553 af

Subcatchment 305S: SUB 305 Runoff Area=4.000 ac Runoff Depth>4.03"
Flow Length=450' Tc=34.5 min CN=80 Runoff=10.69 cfs 1.342 af

Subcatchment 307S: SUB 307 Runoff Area=1.380 ac Runoff Depth>5.12"
Flow Length=107' Tc=15.9 min CN=90 Runoff=6.18 cfs 0.589 af

Subcatchment 318.2S: SUB 318.2 Runoff Area=2.680 ac Runoff Depth>5.12"
Flow Length=304' Tc=15.7 min CN=90 Runoff=12.05 cfs 1.144 af

Subcatchment 327.1S: SUB 327.1 Runoff Area=4.370 ac Runoff Depth>5.44"
Flow Length=430' Tc=10.9 min CN=93 Runoff=23.11 cfs 1.980 af

Subcatchment 327.2S: SUB 327.2 Runoff Area=36.060 ac Runoff Depth>3.80"
Flow Length=1,650' Tc=53.1 min CN=78 Runoff=73.42 cfs 11.405 af

Subcatchment 327.3S: SUB 327.3 Runoff Area=3.790 ac Runoff Depth>3.83"
Flow Length=350' Tc=29.6 min CN=78 Runoff=10.37 cfs 1.208 af

Subcatchment 327.4S: SUB 327.4 Runoff Area=53.090 ac Runoff Depth>3.65"
Flow Length=1,575' Tc=85.4 min CN=77 Runoff=78.63 cfs 16.144 af

Subcatchment 328S: SUB 328 Runoff Area=7.680 ac Runoff Depth>3.73"
Flow Length=1,143' Tc=27.6 min CN=77 Runoff=21.13 cfs 2.384 af

Subcatchment 333.1S: SUB 333.1 Runoff Area=4.790 ac Runoff Depth>4.78"
Flow Length=355' Tc=32.4 min CN=87 Runoff=15.16 cfs 1.908 af

Subcatchment 333.2S: SUB 333.2 Runoff Area=3.920 ac Runoff Depth>4.78"
Flow Length=727' Tc=33.2 min CN=87 Runoff=12.27 cfs 1.561 af

Subcatchment 334S: SUB 334 Runoff Area=1.990 ac Runoff Depth>4.04"
Flow Length=259' Tc=25.1 min CN=80 Runoff=6.14 cfs 0.670 af

Subcatchment 337S: SUB 337 Runoff Area=116.470 ac Runoff Depth>3.94"
Flow Length=2,050' Tc=97.2 min CN=80 Runoff=170.88 cfs 38.231 af

Subcatchment 341S: SUB 341 Runoff Area=59.230 ac Runoff Depth>3.79"
Flow Length=2,119' Tc=58.2 min CN=78 Runoff=114.29 cfs 18.700 af

Subcatchment 342S: SUB 342 Runoff Area=2.210 ac Runoff Depth>4.25"
Flow Length=588' Tc=23.0 min CN=82 Runoff=7.40 cfs 0.783 af

Subcatchment 343S: SUB 343 Runoff Area=11.570 ac Runoff Depth>4.46"
Flow Length=907' Tc=27.6 min CN=84 Runoff=37.31 cfs 4.300 af

Subcatchment 344S: SUB 344 Runoff Area=6.890 ac Runoff Depth>3.83"
Flow Length=507' Tc=24.4 min CN=78 Runoff=20.52 cfs 2.200 af

Subcatchment 345S: SUB 345 Runoff Area=2.820 ac Runoff Depth>4.03"
Flow Length=467' Tc=30.6 min CN=80 Runoff=7.97 cfs 0.947 af

Subcatchment 347S: SUB 347 Runoff Area=3.050 ac Runoff Depth>4.35"
Flow Length=320' Tc=26.0 min CN=83 Runoff=9.89 cfs 1.107 af

Subcatchment 348S: SUB 348 Runoff Area=11.040 ac Runoff Depth>4.03"
Flow Length=1,607' Tc=34.6 min CN=80 Runoff=29.45 cfs 3.704 af

Subcatchment 349S: SUB 349 Runoff Area=8.500 ac Runoff Depth>4.14"
Flow Length=384' Tc=29.9 min CN=81 Runoff=24.84 cfs 2.931 af

Subcatchment 353S: SUB 353 Runoff Area=1.980 ac Runoff Depth>4.79"
Flow Length=262' Tc=20.5 min CN=87 Runoff=7.66 cfs 0.791 af

Subcatchment 362S: SUB 362 Runoff Area=19.760 ac Runoff Depth>4.03"
Flow Length=1,259' Tc=35.3 min CN=80 Runoff=52.22 cfs 6.629 af

Subcatchment 363S: SUB 363 Runoff Area=5.980 ac Runoff Depth>3.94"
Flow Length=495' Tc=23.1 min CN=79 Runoff=18.69 cfs 1.962 af

Reach 11R: Peak Depth=0.17' Max Vel=1.5 fps Inflow=1.08 cfs 0.556 af
n=0.040 L=361.0' S=0.0192 '/' Capacity=221.89 cfs Outflow=1.08 cfs 0.547 af

Reach 12R: Peak Depth=0.23' Max Vel=1.4 fps Inflow=2.81 cfs 1.897 af
n=0.030 L=380.0' S=0.0073 '/' Capacity=634.61 cfs Outflow=2.68 cfs 1.889 af

Reach 13R: Peak Depth=0.45' Max Vel=1.7 fps Inflow=3.75 cfs 2.436 af
n=0.040 L=366.0' S=0.0082 '/' Capacity=144.99 cfs Outflow=3.75 cfs 2.421 af

Reach 17R: Peak Depth=2.41' Max Vel=3.5 fps Inflow=255.15 cfs 46.781 af
n=0.040 L=529.0' S=0.0061 '/' Capacity=433.37 cfs Outflow=254.07 cfs 46.535 af

Reach 18R: Peak Depth=6.99' Max Vel=2.8 fps Inflow=290.50 cfs 62.947 af
n=0.025 L=618.0' S=0.0008 '/' Capacity=51.18 cfs Outflow=288.61 cfs 62.407 af

Reach 19R: Peak Depth=4.43' Max Vel=4.6 fps Inflow=288.61 cfs 62.407 af
n=0.025 L=207.0' S=0.0024 '/' Capacity=88.43 cfs Outflow=288.39 cfs 62.289 af

Reach 20R: Peak Depth=4.63' Max Vel=4.4 fps Inflow=288.39 cfs 62.289 af
n=0.025 L=232.0' S=0.0022 '/' Capacity=83.53 cfs Outflow=288.07 cfs 62.149 af

Reach 23R: Peak Depth=0.41' Max Vel=1.6 fps Inflow=6.89 cfs 4.598 af
n=0.040 L=402.0' S=0.0100 '/' Capacity=554.08 cfs Outflow=6.84 cfs 4.582 af

Reach 24R: Peak Depth=1.53' Max Vel=2.7 fps Inflow=90.46 cfs 18.940 af
n=0.040 L=174.0' S=0.0063 '/' Capacity=441.65 cfs Outflow=88.94 cfs 18.912 af

Reach 25R: Peak Depth=1.58' Max Vel=3.0 fps Inflow=105.68 cfs 19.234 af
n=0.050 L=697.0' S=0.0115 '/' Capacity=476.08 cfs Outflow=102.58 cfs 19.122 af

Reach 27R: Peak Depth=0.84' Max Vel=0.9 fps Inflow=12.16 cfs 5.048 af
n=0.050 L=966.0' S=0.0022 '/' Capacity=207.19 cfs Outflow=11.01 cfs 4.743 af

Reach 35R: Peak Depth=0.68' Max Vel=2.9 fps Inflow=25.55 cfs 3.321 af
n=0.040 L=301.0' S=0.0175 '/' Capacity=735.69 cfs Outflow=24.72 cfs 3.314 af

Reach 36R: Peak Depth=0.63' Max Vel=1.4 fps Inflow=11.84 cfs 3.143 af
n=0.040 L=993.0' S=0.0045 '/' Capacity=373.93 cfs Outflow=10.95 cfs 3.047 af

Reach 37R: Peak Depth=0.37' Max Vel=2.8 fps Inflow=9.91 cfs 1.285 af
n=0.040 L=370.0' S=0.0324 '/' Capacity=1,000.34 cfs Outflow=9.86 cfs 1.281 af

Reach 39R: Peak Depth=0.24' Max Vel=2.9 fps Inflow=5.82 cfs 0.725 af
n=0.030 L=537.0' S=0.0324 '/' Capacity=1,333.17 cfs Outflow=5.77 cfs 0.722 af

Reach 41R: Peak Depth=0.42' Max Vel=1.5 fps Inflow=7.41 cfs 0.835 af
n=0.040 L=912.0' S=0.0087 '/' Capacity=516.98 cfs Outflow=6.68 cfs 0.824 af

Reach 44R: Peak Depth=0.20' Max Vel=0.6 fps Inflow=1.05 cfs 0.906 af
n=0.040 L=1,232.0' S=0.0033 '/' Capacity=320.44 cfs Outflow=0.99 cfs 0.817 af

Reach 132R: Default Culvert Peak Depth=1.31' Max Vel=6.9 fps Inflow=24.84 cfs 2.931 af
D=48.0" n=0.011 L=25.0' S=0.0040 '/' Capacity=107.37 cfs Outflow=24.83 cfs 2.930 af

Reach 157R: Peak Depth=0.82' Max Vel=2.7 fps Inflow=31.37 cfs 3.620 af
n=0.050 L=300.0' S=0.0200 '/' Capacity=628.44 cfs Outflow=31.12 cfs 3.611 af

Reach 160R: Peak Depth=0.36' Max Vel=1.8 fps Inflow=6.14 cfs 0.670 af
n=0.040 L=290.0' S=0.0138 '/' Capacity=652.36 cfs Outflow=6.07 cfs 0.667 af

Reach 162R: Peak Depth=0.26' Max Vel=2.6 fps Inflow=6.07 cfs 0.667 af
n=0.040 L=637.0' S=0.0408 '/' Capacity=1,122.22 cfs Outflow=5.90 cfs 0.663 af

Reach 164R: Peak Depth=0.48' Max Vel=2.6 fps Inflow=13.62 cfs 6.357 af
n=0.040 L=412.0' S=0.0210 '/' Capacity=804.86 cfs Outflow=13.56 cfs 6.297 af

Reach 165R: Peak Depth=0.59' Max Vel=3.0 fps Inflow=21.13 cfs 2.384 af
n=0.040 L=675.0' S=0.0224 '/' Capacity=830.80 cfs Outflow=20.69 cfs 2.371 af

Reach 166R: Peak Depth=5.82' Max Vel=1.0 fps Inflow=361.85 cfs 63.322 af
n=0.040 L=775.0' S=0.0003 '/' Capacity=89.23 cfs Outflow=293.15 cfs 61.592 af

Reach 167R: Peak Depth=3.66' Max Vel=2.0 fps Inflow=296.37 cfs 63.963 af
n=0.040 L=248.0' S=0.0012 '/' Capacity=193.19 cfs Outflow=295.71 cfs 63.649 af

Reach 168R: Peak Depth=0.86' Max Vel=2.9 fps Inflow=37.31 cfs 4.300 af
n=0.050 L=383.0' S=0.0222 '/' Capacity=662.00 cfs Outflow=36.93 cfs 4.289 af

Reach 169R: Peak Depth=0.95' Max Vel=2.9 fps Inflow=42.62 cfs 10.001 af
n=0.040 L=450.0' S=0.0122 '/' Capacity=614.09 cfs Outflow=42.33 cfs 9.923 af

Reach 170R: Peak Depth=1.43' Max Vel=2.6 fps Inflow=76.95 cfs 14.212 af
n=0.040 L=910.0' S=0.0060 '/' Capacity=431.84 cfs Outflow=74.48 cfs 13.998 af

Reach 171R: Peak Depth=0.23' Max Vel=4.0 fps Inflow=7.66 cfs 0.791 af
n=0.030 L=173.0' S=0.0631 '/' Capacity=1,860.74 cfs Outflow=7.59 cfs 0.790 af

Reach 172R: Peak Depth=1.19' Max Vel=4.8 fps Inflow=103.80 cfs 21.842 af
n=0.040 L=978.0' S=0.0266 '/' Capacity=905.68 cfs Outflow=103.34 cfs 21.740 af

Reach 173R: Peak Depth=0.46' Max Vel=2.4 fps Inflow=12.04 cfs 1.144 af
n=0.040 L=235.0' S=0.0196 '/' Capacity=777.99 cfs Outflow=11.78 cfs 1.142 af

Reach 206R: Peak Depth=0.83' Max Vel=1.9 fps Inflow=23.07 cfs 1.980 af
n=0.040 L=77.0' S=0.0065 '/' Capacity=447.61 cfs Outflow=22.63 cfs 1.978 af

Reach 306R: Default Culvert Peak Depth=1.26' Max Vel=6.8 fps Inflow=23.11 cfs 1.980 af
D=48.0" n=0.011 L=25.0' S=0.0040 '/' Capacity=107.37 cfs Outflow=23.07 cfs 1.980 af

Reach 319R: Default Culvert Peak Depth=0.90' Max Vel=5.6 fps Inflow=12.05 cfs 1.144 af
D=48.0" n=0.011 L=25.0' S=0.0040 '/' Capacity=107.37 cfs Outflow=12.04 cfs 1.144 af

Reach 366R: Peak Depth=0.17' Max Vel=1.8 fps Inflow=2.31 cfs 1.558 af
n=0.040 L=401.0' S=0.0339 '/' Capacity=1,022.20 cfs Outflow=2.31 cfs 1.552 af

Reach 367R: Peak Depth=0.20' Max Vel=2.9 fps Inflow=4.65 cfs 3.048 af
n=0.040 L=152.0' S=0.0676 '/' Capacity=1,443.85 cfs Outflow=4.58 cfs 3.046 af

Reach 460R: Peak Depth=1.13' Max Vel=1.6 fps Inflow=32.29 cfs 3.640 af
n=0.050 L=410.0' S=0.0049 '/' Capacity=310.36 cfs Outflow=31.37 cfs 3.620 af

Reach 462R: Peak Depth=0.21' Max Vel=0.9 fps Inflow=2.19 cfs 0.312 af
n=0.050 L=434.0' S=0.0092 '/' Capacity=426.61 cfs Outflow=1.52 cfs 0.287 af

Reach 463R: Peak Depth=3.93' Max Vel=1.7 fps Inflow=295.71 cfs 63.649 af
n=0.040 L=673.0' S=0.0009 '/' Capacity=165.85 cfs Outflow=290.50 cfs 62.659 af

Reach 464R: Peak Depth=0.28' Max Vel=3.0 fps Inflow=7.40 cfs 0.783 af
n=0.040 L=425.0' S=0.0518 '/' Capacity=1,263.79 cfs Outflow=7.30 cfs 0.780 af

Reach 465R: Peak Depth=0.48' Max Vel=4.0 fps Inflow=20.52 cfs 2.200 af
n=0.040 L=319.0' S=0.0502 '/' Capacity=1,244.01 cfs Outflow=20.34 cfs 2.196 af

Reach 466R: Peak Depth=0.49' Max Vel=0.7 fps Inflow=3.75 cfs 2.421 af
n=0.050 L=461.0' S=0.0024 '/' Capacity=217.07 cfs Outflow=3.75 cfs 2.375 af

Reach 468R: Peak Depth=0.57' Max Vel=2.7 fps Inflow=17.77 cfs 7.629 af
n=0.040 L=333.0' S=0.0185 '/' Capacity=754.87 cfs Outflow=17.72 cfs 7.604 af

Reach 469R: Peak Depth=0.18' Max Vel=1.5 fps Inflow=2.09 cfs 1.887 af
n=0.040 L=400.0' S=0.0213 '/' Capacity=810.20 cfs Outflow=2.03 cfs 1.862 af

Reach 470R: Peak Depth=0.26' Max Vel=2.6 fps Inflow=5.92 cfs 0.730 af
n=0.030 L=336.0' S=0.0238 '/' Capacity=1,142.81 cfs Outflow=5.88 cfs 0.728 af

Reach 471R: Peak Depth=0.54' Max Vel=3.5 fps Inflow=5.88 cfs 0.728 af
n=0.030 L=669.0' S=0.0209 '/' Capacity=111.75 cfs Outflow=5.82 cfs 0.725 af

Reach 472R: Peak Depth=0.78' Max Vel=0.5 fps Inflow=5.50 cfs 4.275 af
n=0.050 L=105.0' S=0.0008 '/' Capacity=122.66 cfs Outflow=5.48 cfs 4.224 af

Reach 473R: Peak Depth=2.52' Max Vel=3.4 fps Inflow=265.03 cfs 51.278 af
n=0.050 L=309.0' S=0.0083 '/' Capacity=405.26 cfs Outflow=264.26 cfs 51.099 af

Reach 637R: Default Reach Peak Depth=1.28' Max Vel=4.4 fps Inflow=53.84 cfs 7.291 af
n=0.030 L=1,153.0' S=0.0116 '/' Capacity=394.65 cfs Outflow=52.83 cfs 7.251 af

Reach 638R: Default Reach Peak Depth=1.73' Max Vel=4.9 fps Inflow=100.32 cfs 13.870 af
n=0.030 L=1,333.0' S=0.0100 '/' Capacity=367.04 cfs Outflow=98.47 cfs 13.789 af

Reach CR23: CUL-020 Peak Depth=1.25' Max Vel=4.2 fps Inflow=24.91 cfs 3.049 af
D=15.0" n=0.025 L=90.0' S=0.0180 '/' Capacity=4.51 cfs Outflow=4.65 cfs 3.048 af

Reach CR24: CUL-021 Peak Depth=2.50' Max Vel=0.5 fps Inflow=12.27 cfs 1.561 af
D=30.0" n=0.025 L=85.0' S=0.0001 '/' Capacity=2.31 cfs Outflow=2.31 cfs 1.558 af

Reach CR27: CUL-024 Peak Depth=1.25' Max Vel=3.5 fps Inflow=17.35 cfs 1.897 af
D=15.0" n=0.024 L=25.0' S=0.0116 '/' Capacity=2.68 cfs Outflow=2.81 cfs 1.897 af

Reach CR49: CUL-043 Peak Depth=0.67' Max Vel=3.2 fps Inflow=21.40 cfs 2.686 af
D=8.0" n=0.010 L=25.0' S=0.0040 '/' Capacity=0.99 cfs Outflow=1.05 cfs 0.906 af

Reach CR50: CUL-044 Peak Depth=1.00' Max Vel=8.0 fps Inflow=37.88 cfs 4.833 af
D=12.0" n=0.010 L=30.0' S=0.0140 '/' Capacity=5.48 cfs Outflow=5.50 cfs 4.275 af

Reach CR51: CUL-045 Peak Depth=1.00' Max Vel=2.9 fps Inflow=28.38 cfs 3.962 af
D=12.0" n=0.024 L=20.0' S=0.0105 '/' Capacity=1.98 cfs Outflow=2.09 cfs 1.887 af

Reach CR52: CUL-046 Peak Depth=1.00' Max Vel=4.2 fps Inflow=10.69 cfs 1.342 af
D=12.0" n=0.024 L=20.0' S=0.0230 '/' Capacity=2.93 cfs Outflow=3.02 cfs 1.342 af

Reach CR54: CUL-048 Peak Depth=1.00' Max Vel=2.2 fps Inflow=10.37 cfs 1.208 af
D=12.0" n=0.024 L=40.0' S=0.0063 '/' Capacity=1.53 cfs Outflow=1.60 cfs 1.167 af

Reach CR56: CUL-050 Peak Depth=0.00' Max Vel=0.0 fps
D=18.0" n=0.010 L=40.0' S=0.0083 '/' Capacity=12.40 cfs Outflow=0.00 cfs 0.000 af

Pond 1P: Wetland Detention 29(Cul. ID 50) Peak Elev=14.18' Storage=6.643 af Inflow=342.89 cfs 67.243 af
Outflow=361.85 cfs 63.322 af

Pond 8P: Pond/Wetland Peak Elev=13.07' Storage=3.300 af Inflow=31.12 cfs 3.611 af
Outflow=2.19 cfs 0.312 af

Pond 22P: Wetland Detention 22(Cul. ID 4 Peak Elev=16.80' Storage=9.709 af Inflow=283.44 cfs 52.987 af
Outflow=255.15 cfs 46.781 af

Pond 23P: Wetland Detention 23(Cul. ID 47) Peak Elev=40.16' Storage=0.768 af Inflow=89.05 cfs 19.009 af
30.0" x 40.0' Culvert Outflow=90.46 cfs 18.940 af

Pond 24P: Wetland Detention 24(Cul. ID 25) Peak Elev=46.00' Storage=1.501 af Inflow=18.69 cfs 1.962 af
18.0" x 100.0' Culvert Outflow=1.08 cfs 0.556 af

Pond 25P: Wetland Detention 25(Cul. ID 26) Peak Elev=36.21' Storage=4.364 af Inflow=54.84 cfs 9.003 af
Outflow=8.33 cfs 5.410 af

Pond 26P: Peak Elev=30.17' Inflow=6.18 cfs 0.589 af
12.0" x 146.0' Culvert Outflow=6.18 cfs 0.589 af

Pond 27P: Peak Elev=22.17' Inflow=6.18 cfs 0.589 af
12.0" x 36.0' Culvert Outflow=6.18 cfs 0.589 af

Pond 28P: Peak Elev=41.27' Inflow=11.93 cfs 1.142 af
12.0" x 248.0' Culvert Outflow=11.93 cfs 1.142 af

Pond 29P: Outlet G Peak Elev=303.38' Inflow=414.66 cfs 119.782 af
36.0" x 560.0' Culvert Outflow=414.66 cfs 119.782 af

Pond 45P: NOT DONE Peak Elev=98.00' Storage=0.000 af Inflow=84.03 cfs 16.923 af
Outflow=84.03 cfs 16.923 af

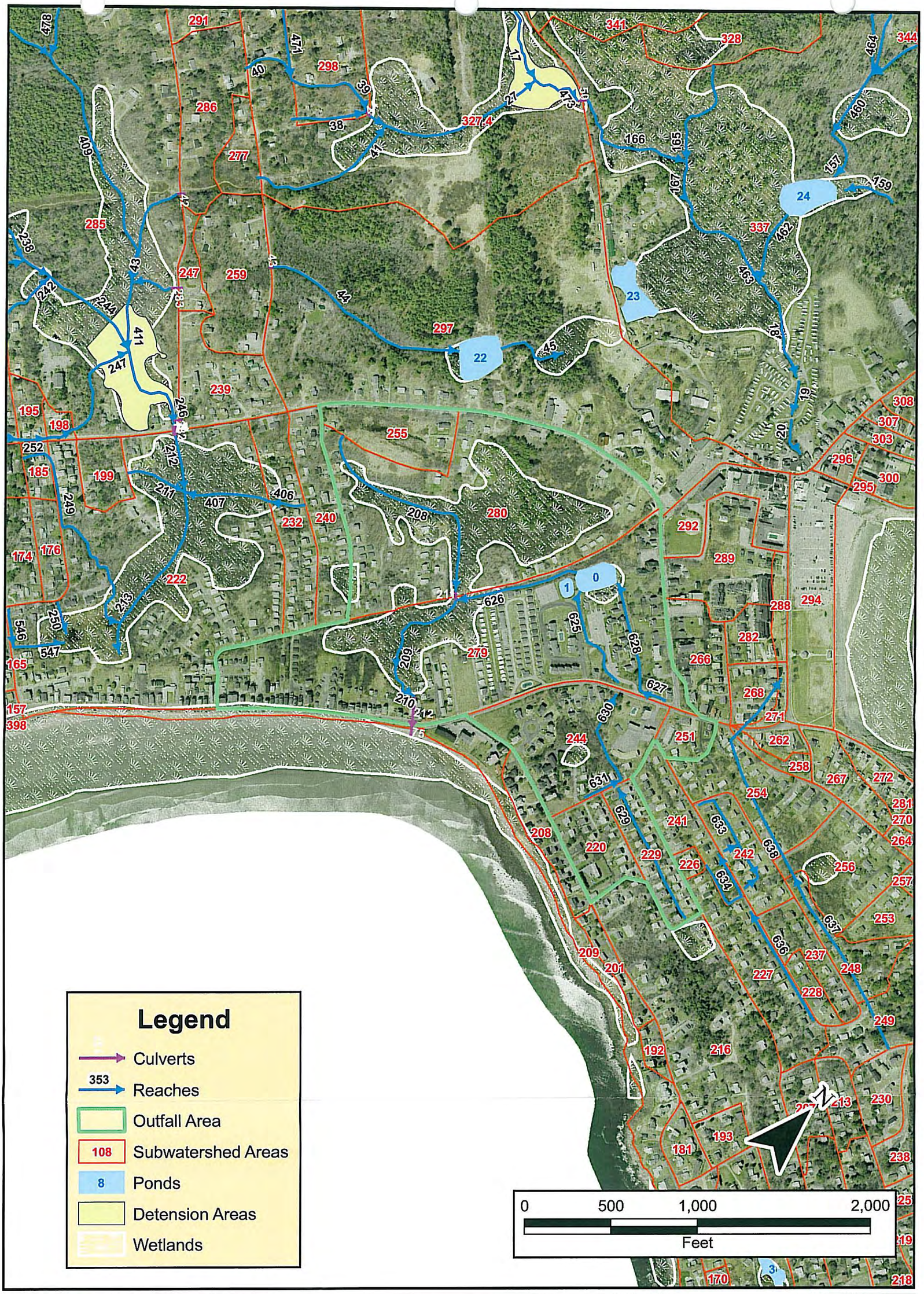
Pond 54P: Pond/Wetland Peak Elev=22.85' Storage=2.500 af Inflow=103.34 cfs 21.740 af
Outflow=105.68 cfs 19.234 af

Pond 55P: Pond/Wetland Peak Elev=18.02' Storage=0.006 af Inflow=21.13 cfs 2.384 af
Outflow=21.13 cfs 2.384 af

Pond 639P: Stormdrain (not surveyed) Peak Elev=54,575.84' Inflow=235.22 cfs 55.912 af
12.0" x 1,200.0' Culvert Outflow=235.22 cfs 55.912 af

Pond CB004: Peak Elev=3.41' Inflow=7.66 cfs 0.791 af
18.0" x 100.0' Culvert Outflow=7.66 cfs 0.791 af

Total Runoff Area = 517.720 ac Runoff Volume = 167.956 af Average Runoff Depth = 3.89"



DRAWN BY: **CJK**	DATE: **MAY 31, 2006**
CHECKED BY: **SJB**	PROJECT: **060057018**

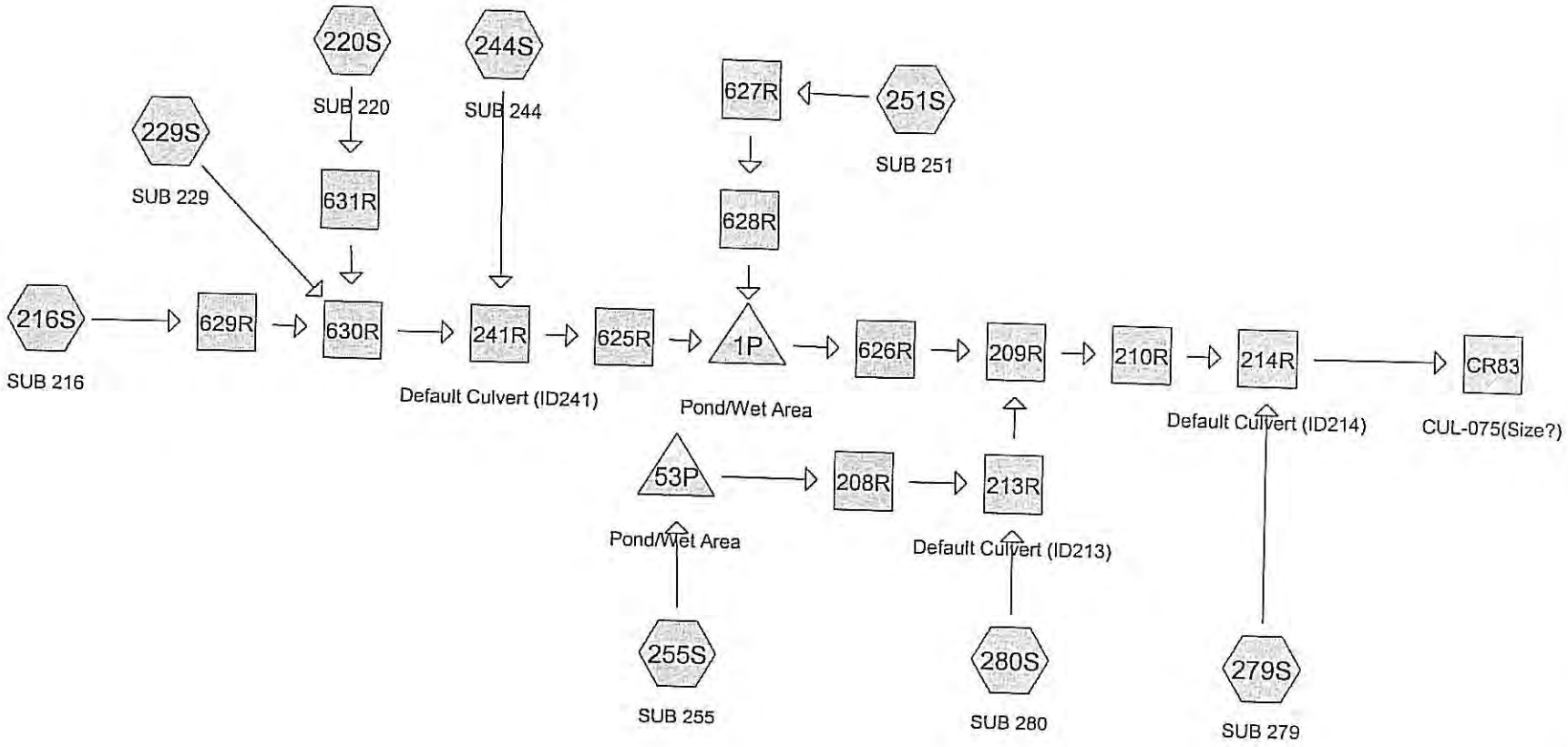
OUTFALL "I"

Data Sources:
Town of York
Maine Office of GIS

Edwards AND Kelcey
ENGINEERS
ARCHITECTS
PLANNERS
CONSTRUCTORS
222 St. John Street Suite 314
Portland, Maine 04102
Tel. (207) 828-1272 Fax (207) 774-6907
www.ekcorp.com

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TOWN OF YORK, MAINE

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Subcat Reach Pond Link

Drainage Diagram for Area (I) (25 - Year)
Prepared by Edwards and Kelcey 7/5/2006
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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 216S: SUB 216 Runoff Area=22.400 ac Runoff Depth>2.81"
Flow Length=1,174' Tc=46.1 min CN=78 Runoff=36.67 cfs 5.248 af

Subcatchment 220S: SUB 220 Runoff Area=4.080 ac Runoff Depth>2.39"
Flow Length=489' Tc=25.5 min CN=73 Runoff=7.50 cfs 0.813 af

Subcatchment 229S: SUB 229 Runoff Area=3.840 ac Runoff Depth>3.59"
Flow Length=765' Tc=31.8 min CN=86 Runoff=9.38 cfs 1.150 af

Subcatchment 244S: SUB 244 Runoff Area=11.950 ac Runoff Depth>1.66"
Flow Length=671' Tc=38.7 min CN=64 Runoff=12.34 cfs 1.656 af

Subcatchment 251S: SUB 251 Runoff Area=1.770 ac Runoff Depth>2.56"
Flow Length=240' Tc=25.6 min CN=75 Runoff=3.48 cfs 0.378 af

Subcatchment 255S: SUB 255 Runoff Area=5.030 ac Runoff Depth>3.00"
Flow Length=400' Tc=45.7 min CN=80 Runoff=8.78 cfs 1.256 af

Subcatchment 279S: SUB 279 Runoff Area=38.530 ac Runoff Depth>3.18"
Flow Length=2,044' Tc=47.5 min CN=82 Runoff=69.64 cfs 10.219 af

Subcatchment 280S: SUB 280 Runoff Area=32.610 ac Runoff Depth>3.06"
Flow Length=1,353' Tc=68.8 min CN=81 Runoff=46.30 cfs 8.328 af

Reach 208R: Peak Depth=0.28' Max Vel=0.5 fps Inflow=3.05 cfs 0.421 af
n=0.050 L=1,333.0' S=0.0023 '/' Capacity=210.81 cfs Outflow=1.20 cfs 0.364 af

Reach 209R: Peak Depth=1.64' Max Vel=1.3 fps Inflow=47.54 cfs 11.507 af
n=0.040 L=615.0' S=0.0013 '/' Capacity=200.34 cfs Outflow=46.93 cfs 11.294 af

Reach 210R: Peak Depth=1.24' Max Vel=2.0 fps Inflow=46.93 cfs 11.294 af
n=0.040 L=222.0' S=0.0045 '/' Capacity=372.81 cfs Outflow=46.77 cfs 11.245 af

Reach 213R: Default Culvert (ID213) Peak Depth=3.00' Max Vel=6.8 fps Inflow=46.30 cfs 8.692 af
D=36.0" n=0.013 L=50.0' S=0.0040 '/' Capacity=42.18 cfs Outflow=44.78 cfs 8.691 af

Reach 214R: Default Culvert (ID214) Peak Depth=3.00' Max Vel=7.5 fps Inflow=93.93 cfs 21.464 af
D=36.0" n=0.013 L=203.0' S=0.0049 '/' Capacity=46.81 cfs Outflow=47.26 cfs 21.448 af

Reach 241R: Default Culvert (ID241) Peak Depth=1.00' Max Vel=6.6 fps Inflow=57.02 cfs 8.798 af
D=12.0" n=0.013 L=31.0' S=0.0161 '/' Capacity=4.52 cfs Outflow=4.81 cfs 3.519 af

Reach 625R: Peak Depth=0.26' Max Vel=2.1 fps Inflow=4.81 cfs 3.519 af
n=0.035 L=625.0' S=0.0208 '/' Capacity=915.55 cfs Outflow=4.59 cfs 3.457 af

Reach 626R: Peak Depth=0.47' Max Vel=1.1 fps Inflow=5.84 cfs 2.959 af
n=0.035 L=725.0' S=0.0030 '/' Capacity=349.70 cfs Outflow=5.59 cfs 2.816 af

Reach 627R: Peak Depth=0.39' Max Vel=2.8 fps Inflow=3.48 cfs 0.378 af
n=0.035 L=163.0' S=0.0245 '/' Capacity=296.91 cfs Outflow=3.46 cfs 0.378 af

Reach 628R: Peak Depth=0.33' Max Vel=2.6 fps Inflow=3.46 cfs 0.378 af
n=0.035 L=642.0' S=0.0218 '/' Capacity=313.68 cfs Outflow=3.37 cfs 0.375 af

Reach 629R: Peak Depth=1.32' Max Vel=2.7 fps Inflow=36.67 cfs 5.248 af
n=0.035 L=853.0' S=0.0047 '/' Capacity=193.73 cfs Outflow=36.04 cfs 5.208 af

Reach 630R: Peak Depth=0.93' Max Vel=3.3 fps Inflow=46.47 cfs 7.169 af
n=0.040 L=562.0' S=0.0160 '/' Capacity=702.93 cfs Outflow=46.28 cfs 7.142 af

Reach 631R: Peak Depth=0.60' Max Vel=2.5 fps Inflow=7.50 cfs 0.813 af
n=0.035 L=240.0' S=0.0125 '/' Capacity=119.30 cfs Outflow=7.43 cfs 0.811 af

Reach CR83: CUL-075(Size?) Peak Depth=1.98' Max Vel=9.5 fps Inflow=47.26 cfs 21.448 af
D=36.0" n=0.024 L=70.0' S=0.0286 '/' Capacity=61.07 cfs Outflow=47.23 cfs 21.444 af

Pond 1P: Pond/Wet Area Peak Elev=11.24' Storage=0.890 af Inflow=7.90 cfs 3.832 af
Outflow=5.84 cfs 2.959 af

Pond 53P: Pond/Wet Area Peak Elev=12.66' Storage=0.835 af Inflow=8.78 cfs 1.256 af
Outflow=3.05 cfs 0.421 af

Total Runoff Area = 120.210 ac Runoff Volume = 29.047 af Average Runoff Depth = 2.90"

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 216S: SUB 216 Runoff Area=22.400 ac Runoff Depth>3.14"
Flow Length=1,174' Tc=46.1 min CN=78 Runoff=40.85 cfs 5.857 af

Subcatchment 220S: SUB 220 Runoff Area=4.080 ac Runoff Depth>2.70"
Flow Length=489' Tc=25.5 min CN=73 Runoff=8.46 cfs 0.917 af

Subcatchment 229S: SUB 229 Runoff Area=3.840 ac Runoff Depth>3.95"
Flow Length=765' Tc=31.8 min CN=86 Runoff=10.27 cfs 1.264 af

Subcatchment 244S: SUB 244 Runoff Area=11.950 ac Runoff Depth>1.92"
Flow Length=671' Tc=38.7 min CN=64 Runoff=14.34 cfs 1.910 af

Subcatchment 251S: SUB 251 Runoff Area=1.770 ac Runoff Depth>2.88"
Flow Length=240' Tc=25.6 min CN=75 Runoff=3.91 cfs 0.425 af

Subcatchment 255S: SUB 255 Runoff Area=5.030 ac Runoff Depth>3.33"
Flow Length=400' Tc=45.7 min CN=80 Runoff=9.74 cfs 1.396 af

Subcatchment 279S: SUB 279 Runoff Area=38.530 ac Runoff Depth>3.52"
Flow Length=2,044' Tc=47.5 min CN=82 Runoff=76.89 cfs 11.318 af

Subcatchment 280S: SUB 280 Runoff Area=32.610 ac Runoff Depth>3.40"
Flow Length=1,353' Tc=68.8 min CN=81 Runoff=51.26 cfs 9.242 af

Reach 208R: Peak Depth=0.34' Max Vel=0.6 fps Inflow=4.29 cfs 0.562 af
n=0.050 L=1,333.0' S=0.0023 '/' Capacity=210.81 cfs Outflow=1.83 cfs 0.503 af

Reach 209R: Peak Depth=1.66' Max Vel=1.3 fps Inflow=48.56 cfs 12.700 af
n=0.040 L=615.0' S=0.0013 '/' Capacity=200.34 cfs Outflow=48.41 cfs 12.482 af

Reach 210R: Peak Depth=1.26' Max Vel=2.1 fps Inflow=48.41 cfs 12.482 af
n=0.040 L=222.0' S=0.0045 '/' Capacity=372.81 cfs Outflow=48.40 cfs 12.431 af

Reach 213R: Default Culvert (ID213) Peak Depth=3.00' Max Vel=6.8 fps Inflow=51.26 cfs 9.745 af
D=36.0" n=0.013 L=50.0' S=0.0040 '/' Capacity=42.18 cfs Outflow=43.44 cfs 9.744 af

Reach 214R: Default Culvert (ID214) Peak Depth=3.00' Max Vel=7.5 fps Inflow=104.21 cfs 23.749 af
D=36.0" n=0.013 L=203.0' S=0.0049 '/' Capacity=46.81 cfs Outflow=51.32 cfs 23.733 af

Reach 241R: Default Culvert (ID241) Peak Depth=1.00' Max Vel=6.6 fps Inflow=64.22 cfs 9.874 af
D=12.0" n=0.013 L=31.0' S=0.0161 '/' Capacity=4.52 cfs Outflow=4.69 cfs 3.611 af

Reach 625R: Peak Depth=0.26' Max Vel=2.1 fps Inflow=4.69 cfs 3.611 af
n=0.035 L=625.0' S=0.0208 '/' Capacity=915.55 cfs Outflow=4.55 cfs 3.549 af

Reach 626R: Peak Depth=0.50' Max Vel=1.1 fps Inflow=6.79 cfs 3.097 af
n=0.035 L=725.0' S=0.0030 '/' Capacity=349.70 cfs Outflow=6.38 cfs 2.956 af

Reach 627R: Peak Depth=0.41' Max Vel=2.9 fps Inflow=3.91 cfs 0.425 af
n=0.035 L=163.0' S=0.0245 '/' Capacity=296.91 cfs Outflow=3.88 cfs 0.424 af

Reach 628R: Peak Depth=0.35' Max Vel=2.6 fps Inflow=3.88 cfs 0.424 af
n=0.035 L=642.0' S=0.0218 '/' Capacity=313.68 cfs Outflow=3.79 cfs 0.421 af

Reach 629R: Peak Depth=1.40' Max Vel=2.8 fps Inflow=40.85 cfs 5.857 af
n=0.035 L=853.0' S=0.0047 '/' Capacity=193.73 cfs Outflow=40.17 cfs 5.815 af

Reach 630R: Peak Depth=0.98' Max Vel=3.3 fps Inflow=51.85 cfs 7.994 af
n=0.040 L=562.0' S=0.0160 '/' Capacity=702.93 cfs Outflow=51.64 cfs 7.965 af

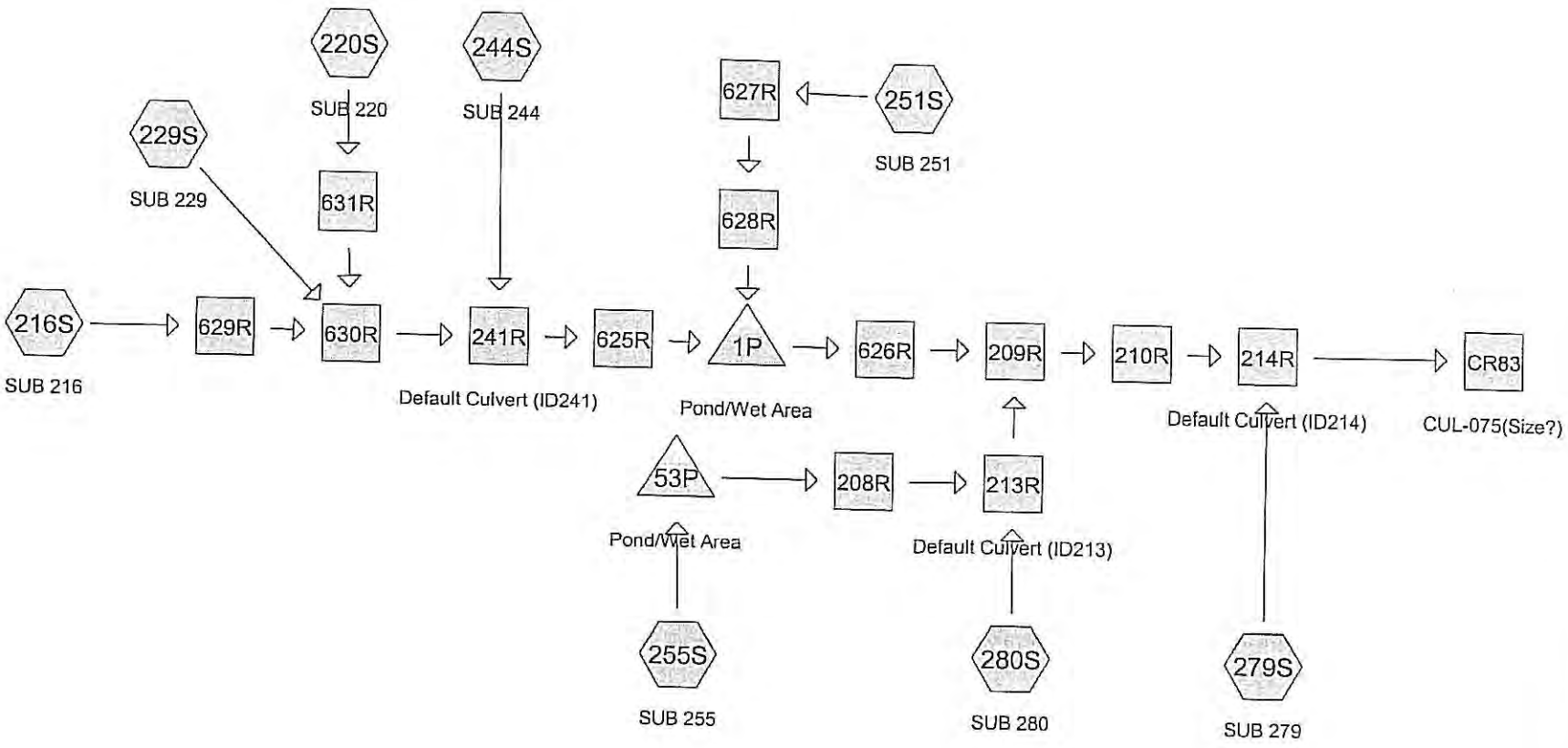
Reach 631R: Peak Depth=0.64' Max Vel=2.5 fps Inflow=8.46 cfs 0.917 af
n=0.035 L=240.0' S=0.0125 '/' Capacity=119.30 cfs Outflow=8.39 cfs 0.915 af

Reach CR83: CUL-075(Size?) Peak Depth=2.09' Max Vel=9.6 fps Inflow=51.32 cfs 23.733 af
D=36.0" n=0.024 L=70.0' S=0.0286 '/' Capacity=61.07 cfs Outflow=50.82 cfs 23.729 af

Pond 1P: Pond/Wet Area Peak Elev=11.26' Storage=0.902 af Inflow=8.31 cfs 3.970 af
Outflow=6.79 cfs 3.097 af

Pond 53P: Pond/Wet Area Peak Elev=12.69' Storage=0.835 af Inflow=9.74 cfs 1.396 af
Outflow=4.29 cfs 0.562 af

Total Runoff Area = 120.210 ac Runoff Volume = 32.328 af Average Runoff Depth = 3.23"



Subcat Reach Pond Link

Drainage Diagram for Area (I) (100 - Year)
Prepared by Edwards and Kelcey 7/5/2006
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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 216S: SUB 216 Runoff Area=22.400 ac Runoff Depth>3.80"
Flow Length=1,174' Tc=46.1 min CN=78 Runoff=49.32 cfs 7.102 af

Subcatchment 220S: SUB 220 Runoff Area=4.080 ac Runoff Depth>3.33"
Flow Length=489' Tc=25.5 min CN=73 Runoff=10.42 cfs 1.131 af

Subcatchment 229S: SUB 229 Runoff Area=3.840 ac Runoff Depth>4.67"
Flow Length=765' Tc=31.8 min CN=86 Runoff=12.06 cfs 1.495 af

Subcatchment 244S: SUB 244 Runoff Area=11.950 ac Runoff Depth>2.45"
Flow Length=671' Tc=38.7 min CN=64 Runoff=18.52 cfs 2.444 af

Subcatchment 251S: SUB 251 Runoff Area=1.770 ac Runoff Depth>3.52"
Flow Length=240' Tc=25.6 min CN=75 Runoff=4.77 cfs 0.520 af

Subcatchment 255S: SUB 255 Runoff Area=5.030 ac Runoff Depth>4.01"
Flow Length=400' Tc=45.7 min CN=80 Runoff=11.66 cfs 1.682 af

Subcatchment 279S: SUB 279 Runoff Area=38.530 ac Runoff Depth>4.22"
Flow Length=2,044' Tc=47.5 min CN=82 Runoff=91.47 cfs 13.549 af

Subcatchment 280S: SUB 280 Runoff Area=32.610 ac Runoff Depth>4.09"
Flow Length=1,353' Tc=68.8 min CN=81 Runoff=61.24 cfs 11.101 af

Reach 208R: Peak Depth=0.50' Max Vel=0.7 fps Inflow=17.16 cfs 0.863 af
n=0.050 L=1,333.0' S=0.0023 '/' Capacity=210.81 cfs Outflow=3.80 cfs 0.804 af

Reach 209R: Peak Depth=1.68' Max Vel=1.3 fps Inflow=50.20 cfs 15.135 af
n=0.040 L=615.0' S=0.0013 '/' Capacity=200.34 cfs Outflow=49.97 cfs 14.905 af

Reach 210R: Peak Depth=1.28' Max Vel=2.1 fps Inflow=49.97 cfs 14.905 af
n=0.040 L=222.0' S=0.0045 '/' Capacity=372.81 cfs Outflow=49.96 cfs 14.852 af

Reach 213R: Default Culvert (ID213) Peak Depth=3.00' Max Vel=6.8 fps Inflow=61.24 cfs 11.905 af
D=36.0" n=0.013 L=50.0' S=0.0040 '/' Capacity=42.18 cfs Outflow=44.51 cfs 11.903 af

Reach 214R: Default Culvert (ID214) Peak Depth=3.00' Max Vel=7.5 fps Inflow=126.16 cfs 28.402 af
D=36.0" n=0.013 L=203.0' S=0.0049 '/' Capacity=46.81 cfs Outflow=48.45 cfs 28.385 af

Reach 241R: Default Culvert (ID241) Peak Depth=1.00' Max Vel=6.6 fps Inflow=78.94 cfs 12.090 af
D=12.0" n=0.013 L=31.0' S=0.0161 '/' Capacity=4.52 cfs Outflow=4.85 cfs 3.788 af

Reach 625R: Peak Depth=0.26' Max Vel=2.1 fps Inflow=4.85 cfs 3.788 af
n=0.035 L=625.0' S=0.0208 '/' Capacity=915.55 cfs Outflow=4.66 cfs 3.725 af

Reach 626R: Peak Depth=0.56' Max Vel=1.2 fps Inflow=8.42 cfs 3.368 af
n=0.035 L=725.0' S=0.0030 '/' Capacity=349.70 cfs Outflow=8.02 cfs 3.231 af

Reach 627R: Peak Depth=0.46' Max Vel=3.1 fps Inflow=4.77 cfs 0.520 af
n=0.035 L=163.0' S=0.0245 '/' Capacity=296.91 cfs Outflow=4.74 cfs 0.519 af

Reach 628R: Peak Depth=0.40' Max Vel=2.8 fps Inflow=4.74 cfs 0.519 af
n=0.035 L=642.0' S=0.0218 '/' Capacity=313.68 cfs Outflow=4.64 cfs 0.516 af

Reach 629R: Peak Depth=1.54' Max Vel=3.0 fps Inflow=49.32 cfs 7.102 af
n=0.035 L=853.0' S=0.0047 '/' Capacity=193.73 cfs Outflow=48.56 cfs 7.055 af

Reach 630R: Peak Depth=1.07' Max Vel=3.5 fps Inflow=62.75 cfs 9.678 af
n=0.040 L=562.0' S=0.0160 '/' Capacity=702.93 cfs Outflow=62.51 cfs 9.646 af

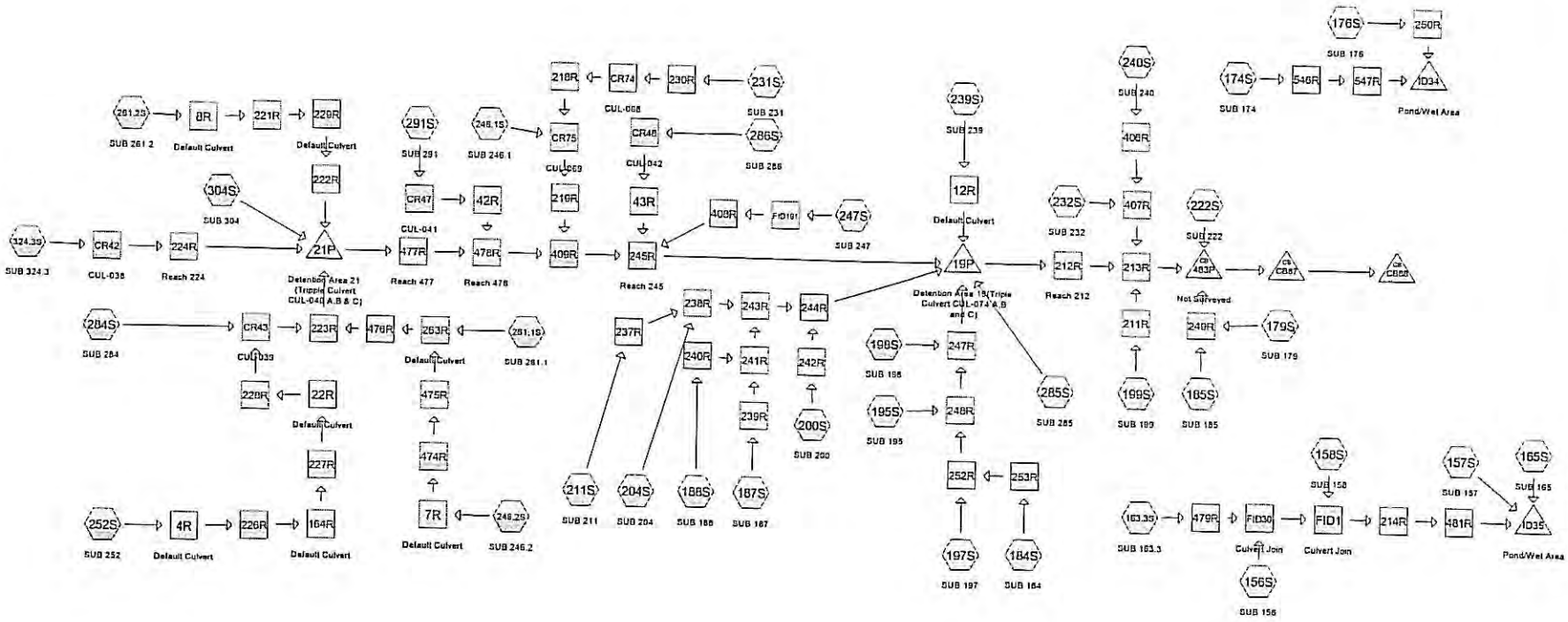
Reach 631R: Peak Depth=0.70' Max Vel=2.7 fps Inflow=10.42 cfs 1.131 af
n=0.035 L=240.0' S=0.0125 '/' Capacity=119.30 cfs Outflow=10.33 cfs 1.128 af

Reach CR83: CUL-075(Size?) Peak Depth=2.01' Max Vel=9.6 fps Inflow=48.45 cfs 28.385 af
D=36.0" n=0.024 L=70.0' S=0.0286 '/' Capacity=61.07 cfs Outflow=48.19 cfs 28.380 af

Pond 1P: Pond/Wet Area Peak Elev=11.30' Storage=0.923 af Inflow=9.17 cfs 4.241 af
Outflow=8.42 cfs 3.368 af

Pond 53P: Pond/Wet Area Peak Elev=12.98' Storage=0.835 af Inflow=11.66 cfs 1.682 af
Outflow=17.16 cfs 0.863 af

Total Runoff Area = 120.210 ac Runoff Volume = 39.023 af Average Runoff Depth = 3.90"



Drainage Diagram for Area (J) (25 - Year)

Prepared by Edwards and Kelcey 7/5/2006

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 156S: SUB 156
Runoff Area=1.750 ac Runoff Depth>3.30"
Flow Length=427' Tc=26.7 min CN=83 Runoff=4.30 cfs 0.481 af

Subcatchment 157S: SUB 157
Runoff Area=3.780 ac Runoff Depth>3.89"
Flow Length=556' Tc=37.7 min CN=89 Runoff=9.09 cfs 1.226 af

Subcatchment 158S: SUB 158
Runoff Area=1.670 ac Runoff Depth>3.50"
Flow Length=421' Tc=24.2 min CN=85 Runoff=4.50 cfs 0.487 af

Subcatchment 163.3S: SUB 163.3
Runoff Area=2.200 ac Runoff Depth>3.11"
Flow Length=374' Tc=26.7 min CN=81 Runoff=5.12 cfs 0.570 af

Subcatchment 165S: SUB 165
Runoff Area=8.950 ac Runoff Depth>3.50"
Flow Length=480' Tc=28.2 min CN=85 Runoff=22.56 cfs 2.607 af

Subcatchment 174S: SUB 174
Runoff Area=20.130 ac Runoff Depth>3.49"
Flow Length=1,185' Tc=30.6 min CN=85 Runoff=48.94 cfs 5.860 af

Subcatchment 176S: SUB 176
Runoff Area=2.020 ac Runoff Depth>4.02"
Flow Length=567' Tc=11.6 min CN=90 Runoff=8.04 cfs 0.677 af

Subcatchment 179S: SUB 179
Runoff Area=1.590 ac Runoff Depth>3.60"
Flow Length=231' Tc=28.0 min CN=86 Runoff=4.11 cfs 0.477 af

Subcatchment 184S: SUB 184
Runoff Area=1.650 ac Runoff Depth>3.41"
Flow Length=525' Tc=13.0 min CN=84 Runoff=5.51 cfs 0.469 af

Subcatchment 185S: SUB 185
Runoff Area=1.170 ac Runoff Depth>3.70"
Flow Length=150' Tc=29.8 min CN=87 Runoff=3.01 cfs 0.360 af

Subcatchment 187S: SUB 187
Runoff Area=0.730 ac Runoff Depth>3.31"
Flow Length=206' Tc=18.8 min CN=83 Runoff=2.08 cfs 0.201 af

Subcatchment 188S: SUB 188
Runoff Area=2.150 ac Runoff Depth>3.30"
Flow Length=381' Tc=23.1 min CN=83 Runoff=5.62 cfs 0.592 af

Subcatchment 195S: SUB 195
Runoff Area=1.280 ac Runoff Depth>3.11"
Flow Length=421' Tc=24.5 min CN=81 Runoff=3.09 cfs 0.332 af

Subcatchment 197S: SUB 197
Runoff Area=6.270 ac Runoff Depth>3.39"
Flow Length=866' Tc=32.4 min CN=84 Runoff=14.47 cfs 1.773 af

Subcatchment 198S: SUB 198
Runoff Area=0.680 ac Runoff Depth>3.02"
Flow Length=150' Tc=21.8 min CN=80 Runoff=1.68 cfs 0.171 af

Subcatchment 199S: SUB 199
Runoff Area=2.380 ac Runoff Depth>2.92"
Flow Length=284' Tc=24.4 min CN=79 Runoff=5.43 cfs 0.580 af

Subcatchment 200S: SUB 200
Runoff Area=2.300 ac Runoff Depth>3.31"
Flow Length=379' Tc=22.6 min CN=83 Runoff=6.07 cfs 0.633 af

Subcatchment 204S: SUB 204
Runoff Area=3.230 ac Runoff Depth>3.02"
Flow Length=437' Tc=22.5 min CN=80 Runoff=7.87 cfs 0.813 af

Subcatchment 211S: SUB 211
Runoff Area=3.850 ac Runoff Depth>2.84"
Flow Length=290' Tc=20.3 min CN=78 Runoff=9.20 cfs 0.910 af

Subcatchment 222S: SUB 222
Runoff Area=43.300 ac Runoff Depth>3.27"
Flow Length=1,776' Tc=135.0 min CN=84 Runoff=42.33 cfs 11.782 af

Subcatchment 231S: SUB 231
Runoff Area=1.770 ac Runoff Depth>3.21"
Flow Length=228' Tc=22.7 min CN=82 Runoff=4.54 cfs 0.473 af

Subcatchment 232S: SUB 232
Runoff Area=5.200 ac Runoff Depth>3.58"
Flow Length=1,241' Tc=47.1 min CN=86 Runoff=10.45 cfs 1.549 af

Subcatchment 239S: SUB 239
Runoff Area=5.920 ac Runoff Depth>3.60"
Flow Length=570' Tc=25.4 min CN=86 Runoff=16.00 cfs 1.776 af

Subcatchment 240S: SUB 240
Runoff Area=5.490 ac Runoff Depth>3.60"
Flow Length=632' Tc=28.4 min CN=86 Runoff=14.12 cfs 1.645 af

Subcatchment 246.1S: SUB 246.1
Runoff Area=4.660 ac Runoff Depth>3.11"
Flow Length=420' Tc=25.1 min CN=81 Runoff=11.14 cfs 1.208 af

Subcatchment 246.2S: SUB 246.2
Runoff Area=0.700 ac Runoff Depth>3.12"
Flow Length=239' Tc=20.0 min CN=81 Runoff=1.84 cfs 0.182 af

Subcatchment 247S: SUB 247
Runoff Area=1.400 ac Runoff Depth>3.21"
Flow Length=150' Tc=20.3 min CN=82 Runoff=3.76 cfs 0.375 af

Subcatchment 252S: SUB 252
Runoff Area=0.950 ac Runoff Depth>3.41"
Flow Length=333' Tc=16.8 min CN=84 Runoff=2.89 cfs 0.270 af

Subcatchment 261.1S: SUB 261.1
Runoff Area=2.010 ac Runoff Depth>3.11"
Flow Length=456' Tc=26.1 min CN=81 Runoff=4.72 cfs 0.521 af

Subcatchment 261.2S: SUB 261.2
Runoff Area=3.410 ac Runoff Depth>3.20"
Flow Length=441' Tc=32.5 min CN=82 Runoff=7.47 cfs 0.909 af

Subcatchment 284S: SUB 284
Runoff Area=4.420 ac Runoff Depth>3.10"
Flow Length=564' Tc=34.1 min CN=81 Runoff=9.20 cfs 1.142 af

Subcatchment 285S: SUB 285 Runoff Area=95.880 ac Runoff Depth>2.63"
Flow Length=3,539' Tc=49.8 min CN=76 Runoff=141.03 cfs 21.003 af

Subcatchment 286S: SUB 286 Runoff Area=7.310 ac Runoff Depth>3.08"
Flow Length=956' Tc=53.4 min CN=81 Runoff=12.05 cfs 1.877 af

Subcatchment 291S: SUB 291 Runoff Area=4.970 ac Runoff Depth>3.11"
Flow Length=288' Tc=27.1 min CN=81 Runoff=11.49 cfs 1.288 af

Subcatchment 304S: SUB 304 Runoff Area=50.680 ac Runoff Depth>2.70"
Flow Length=1,328' Tc=64.5 min CN=77 Runoff=66.14 cfs 11.413 af

Subcatchment 324.3S: SUB 324.3 Runoff Area=21.600 ac Runoff Depth>2.73"
Flow Length=1,151' Tc=39.6 min CN=77 Runoff=37.09 cfs 4.910 af

Reach 4R: Default Culvert Peak Depth=0.36' Max Vel=6.0 fps Inflow=2.89 cfs 0.270 af
D=36.0" n=0.011 L=70.0' S=0.0143 '/' Capacity=94.21 cfs Outflow=2.89 cfs 0.270 af

Reach 7R: Default Culvert Peak Depth=0.29' Max Vel=5.2 fps Inflow=1.84 cfs 0.182 af
D=36.0" n=0.011 L=70.0' S=0.0143 '/' Capacity=94.21 cfs Outflow=1.83 cfs 0.182 af

Reach 8R: Default Culvert Peak Depth=0.68' Max Vel=6.2 fps Inflow=7.47 cfs 0.909 af
D=36.0" n=0.011 L=70.0' S=0.0071 '/' Capacity=66.62 cfs Outflow=7.46 cfs 0.909 af

Reach 12R: Default Culvert Peak Depth=1.28' Max Vel=5.6 fps Inflow=16.00 cfs 1.776 af
D=36.0" n=0.011 L=70.0' S=0.0029 '/' Capacity=42.13 cfs Outflow=15.98 cfs 1.775 af

Reach 22R: Default Culvert Peak Depth=0.30' Max Vel=7.6 fps Inflow=2.82 cfs 0.269 af
D=36.0" n=0.011 L=70.0' S=0.0286 '/' Capacity=133.24 cfs Outflow=2.81 cfs 0.269 af

Reach 42R: Peak Depth=0.43' Max Vel=2.5 fps Inflow=11.48 cfs 1.287 af
n=0.040 L=582.0' S=0.0221 '/' Capacity=826.01 cfs Outflow=11.23 cfs 1.280 af

Reach 43R: Peak Depth=0.34' Max Vel=2.5 fps Inflow=8.23 cfs 1.877 af
n=0.040 L=619.0' S=0.0284 '/' Capacity=935.84 cfs Outflow=7.91 cfs 1.867 af

Reach 164R: Default Culvert Peak Depth=0.36' Max Vel=6.0 fps Inflow=2.87 cfs 0.270 af
D=36.0" n=0.011 L=70.0' S=0.0143 '/' Capacity=94.21 cfs Outflow=2.86 cfs 0.269 af

Reach 211R: Peak Depth=0.30' Max Vel=2.0 fps Inflow=5.43 cfs 0.580 af
n=0.030 L=360.0' S=0.0125 '/' Capacity=828.04 cfs Outflow=5.37 cfs 0.577 af

Reach 212R: Reach 212 Peak Depth=4.31' Max Vel=1.2 fps Inflow=289.19 cfs 46.751 af
n=0.050 L=326.0' S=0.0006 '/' Capacity=110.07 cfs Outflow=226.63 cfs 46.351 af

Reach 213R: Peak Depth=3.82' Max Vel=1.4 fps Inflow=250.81 cfs 50.094 af
n=0.050 L=1,061.0' S=0.0009 '/' Capacity=136.42 cfs Outflow=227.09 cfs 48.940 af

Reach 214R: Peak Depth=0.22' Max Vel=1.9 fps Inflow=3.33 cfs 1.537 af
n=0.030 L=428.0' S=0.0154 '/' Capacity=919.70 cfs Outflow=3.33 cfs 1.531 af

Reach 218R: Peak Depth=0.41' Max Vel=3.9 fps Inflow=3.79 cfs 0.473 af
n=0.030 L=374.0' S=0.0333 '/' Capacity=102.91 cfs Outflow=3.80 cfs 0.472 af

Reach 219R: Peak Depth=0.26' Max Vel=2.4 fps Inflow=5.53 cfs 1.680 af
n=0.040 L=916.0' S=0.0366 '/' Capacity=1,063.06 cfs Outflow=5.53 cfs 1.667 af

Reach 221R: Peak Depth=0.84' Max Vel=2.8 fps Inflow=7.46 cfs 0.909 af
n=0.030 L=126.0' S=0.0079 '/' Capacity=50.25 cfs Outflow=7.44 cfs 0.908 af

Reach 222R: Peak Depth=0.55' Max Vel=5.2 fps Inflow=7.42 cfs 0.908 af
n=0.030 L=270.0' S=0.0437 '/' Capacity=117.91 cfs Outflow=7.40 cfs 0.906 af

Reach 223R: Peak Depth=0.46' Max Vel=3.4 fps Inflow=7.49 cfs 1.626 af
n=0.030 L=478.0' S=0.0255 '/' Capacity=230.56 cfs Outflow=7.42 cfs 1.615 af

Reach 224R: Reach 224 Peak Depth=0.36' Max Vel=0.9 fps Inflow=4.59 cfs 3.447 af
n=0.080 L=2,090.0' S=0.0129 '/' Capacity=142.46 cfs Outflow=4.57 cfs 2.969 af

Reach 226R: Peak Depth=0.34' Max Vel=3.4 fps Inflow=2.89 cfs 0.270 af
n=0.030 L=127.0' S=0.0315 '/' Capacity=137.10 cfs Outflow=2.87 cfs 0.270 af

Reach 227R: Peak Depth=0.33' Max Vel=3.5 fps Inflow=2.86 cfs 0.269 af
n=0.030 L=220.0' S=0.0364 '/' Capacity=147.31 cfs Outflow=2.82 cfs 0.269 af

Reach 228R: Peak Depth=0.32' Max Vel=3.5 fps Inflow=2.81 cfs 0.269 af
n=0.030 L=235.0' S=0.0369 '/' Capacity=148.38 cfs Outflow=2.77 cfs 0.269 af

Reach 229R: Default Culvert Peak Depth=0.62' Max Vel=7.0 fps Inflow=7.44 cfs 0.908 af
D=36.0" n=0.011 L=70.0' S=0.0100 '/' Capacity=78.83 cfs Outflow=7.42 cfs 0.908 af

Reach 230R: Peak Depth=0.13' Max Vel=4.7 fps Inflow=4.54 cfs 0.473 af
n=0.022 L=82.0' S=0.0894 '/' Capacity=233.18 cfs Outflow=4.53 cfs 0.473 af

Reach 237R: Peak Depth=0.30' Max Vel=3.3 fps Inflow=9.20 cfs 0.910 af
n=0.040 L=295.0' S=0.0576 '/' Capacity=1,333.44 cfs Outflow=9.09 cfs 0.908 af

Reach 238R: Peak Depth=0.54' Max Vel=2.5 fps Inflow=16.97 cfs 1.721 af
n=0.040 L=1,169.0' S=0.0181 '/' Capacity=748.03 cfs Outflow=15.40 cfs 1.702 af

Reach 239R: Peak Depth=0.15' Max Vel=1.8 fps Inflow=2.08 cfs 0.201 af
n=0.040 L=201.0' S=0.0398 '/' Capacity=1,108.17 cfs Outflow=2.05 cfs 0.201 af

Reach 240R: Peak Depth=0.27' Max Vel=2.4 fps Inflow=5.62 cfs 0.592 af
n=0.040 L=309.0' S=0.0356 '/' Capacity=1,048.04 cfs Outflow=5.55 cfs 0.590 af

Reach 241R: Peak Depth=0.36' Max Vel=3.4 fps Inflow=7.52 cfs 0.791 af
n=0.040 L=604.0' S=0.0384 '/' Capacity=171.73 cfs Outflow=7.42 cfs 0.787 af

Reach 242R: Peak Depth=0.28' Max Vel=2.5 fps Inflow=6.07 cfs 0.633 af
n=0.040 L=365.0' S=0.0356 '/' Capacity=1,048.30 cfs Outflow=5.98 cfs 0.631 af

Reach 243R: Peak Depth=0.73' Max Vel=2.3 fps Inflow=22.35 cfs 2.489 af
n=0.040 L=177.0' S=0.0102 '/' Capacity=560.16 cfs Outflow=22.18 cfs 2.484 af

Reach 244R: Peak Depth=0.69' Max Vel=3.0 fps Inflow=27.05 cfs 3.115 af
n=0.040 L=644.0' S=0.0189 '/' Capacity=764.53 cfs Outflow=26.56 cfs 3.100 af

Reach 245R: Reach 245 Peak Depth=2.25' Max Vel=1.3 fps Inflow=87.87 cfs 21.402 af
n=0.070 L=400.0' S=0.0030 '/' Capacity=173.85 cfs Outflow=86.26 cfs 21.195 af

Reach 247R: Peak Depth=0.66' Max Vel=2.7 fps Inflow=22.89 cfs 2.739 af
n=0.040 L=638.0' S=0.0160 '/' Capacity=702.34 cfs Outflow=22.45 cfs 2.725 af

Reach 248R: Peak Depth=1.06' Max Vel=5.6 fps Inflow=21.41 cfs 2.570 af
n=0.030 L=167.0' S=0.0240 '/' Capacity=87.29 cfs Outflow=21.37 cfs 2.568 af

Reach 249R: Peak Depth=0.47' Max Vel=2.6 fps Inflow=7.12 cfs 0.837 af
n=0.030 L=1,360.0' S=0.0121 '/' Capacity=152.19 cfs Outflow=6.59 cfs 0.827 af

Reach 250R: Peak Depth=0.36' Max Vel=2.3 fps Inflow=8.04 cfs 0.677 af
n=0.040 L=200.0' S=0.0225 '/' Capacity=833.20 cfs Outflow=7.77 cfs 0.676 af

Reach 252R: Peak Depth=1.16' Max Vel=4.1 fps Inflow=18.46 cfs 2.240 af
n=0.030 L=166.0' S=0.0120 '/' Capacity=61.91 cfs Outflow=18.41 cfs 2.238 af

Reach 253R: Peak Depth=0.23' Max Vel=2.8 fps Inflow=5.51 cfs 0.469 af
n=0.030 L=543.0' S=0.0331 '/' Capacity=1,348.45 cfs Outflow=5.31 cfs 0.467 af

Reach 263R: Default Culvert Peak Depth=0.53' Max Vel=7.6 fps Inflow=6.37 cfs 0.701 af
D=36.0" n=0.011 L=70.0' S=0.0143 '/' Capacity=94.21 cfs Outflow=6.37 cfs 0.701 af

Reach 406R: Peak Depth=0.67' Max Vel=1.6 fps Inflow=14.12 cfs 1.645 af
n=0.030 L=214.0' S=0.0033 '/' Capacity=423.58 cfs Outflow=14.00 cfs 1.641 af

Reach 407R: Peak Depth=1.05' Max Vel=1.3 fps Inflow=23.55 cfs 3.190 af
n=0.050 L=497.0' S=0.0036 '/' Capacity=267.43 cfs Outflow=22.76 cfs 3.166 af

Reach 408R: Peak Depth=0.23' Max Vel=2.0 fps Inflow=3.75 cfs 0.375 af
n=0.040 L=241.0' S=0.0290 '/' Capacity=946.67 cfs Outflow=3.70 cfs 0.373 af

Reach 409R: Peak Depth=1.31' Max Vel=3.2 fps Inflow=85.62 cfs 19.461 af
n=0.040 L=1,453.0' S=0.0103 '/' Capacity=564.38 cfs Outflow=79.43 cfs 19.161 af

Reach 474R: Peak Depth=0.13' Max Vel=2.0 fps Inflow=1.83 cfs 0.182 af
n=0.030 L=461.0' S=0.0304 '/' Capacity=1,290.66 cfs Outflow=1.77 cfs 0.181 af

Reach 475R: Peak Depth=0.38' Max Vel=2.1 fps Inflow=1.77 cfs 0.181 af
n=0.030 L=191.0' S=0.0105 '/' Capacity=57.72 cfs Outflow=1.75 cfs 0.180 af

Reach 476R: Peak Depth=0.47' Max Vel=5.6 fps Inflow=6.37 cfs 0.701 af
n=0.022 L=243.0' S=0.0322 '/' Capacity=138.06 cfs Outflow=6.34 cfs 0.700 af

Reach 477R: Reach 477 Peak Depth=1.71' Max Vel=2.3 fps Inflow=95.41 cfs 16.671 af
n=0.040 L=109.0' S=0.0039 '/' Capacity=348.88 cfs Outflow=82.61 cfs 16.642 af

Reach 478R: Reach 478 Peak Depth=1.78' Max Vel=1.9 fps Inflow=87.96 cfs 17.922 af
n=0.040 L=390.0' S=0.0026 '/' Capacity=281.27 cfs Outflow=80.08 cfs 17.794 af

Reach 479R: Peak Depth=0.47' Max Vel=4.5 fps Inflow=5.12 cfs 0.570 af
n=0.030 L=363.0' S=0.0386 '/' Capacity=110.77 cfs Outflow=5.08 cfs 0.569 af

Reach 481R: Peak Depth=0.38' Max Vel=0.9 fps Inflow=3.33 cfs 1.531 af
n=0.050 L=192.0' S=0.0052 '/' Capacity=320.70 cfs Outflow=3.33 cfs 1.526 af

Reach 546R: Peak Depth=1.74' Max Vel=5.1 fps Inflow=48.94 cfs 5.860 af
n=0.030 L=223.0' S=0.0112 '/' Capacity=66.92 cfs Outflow=48.73 cfs 5.855 af

Reach 547R: Peak Depth=1.06' Max Vel=2.8 fps Inflow=48.73 cfs 5.855 af
n=0.040 L=300.0' S=0.0100 '/' Capacity=555.47 cfs Outflow=48.39 cfs 5.842 af

Reach CR42: CUL-038 Peak Depth=2.00' Max Vel=2.3 fps Inflow=37.09 cfs 4.910 af
D=24.0" n=0.025 L=110.0' S=0.0030 '/' Capacity=4.57 cfs Outflow=4.59 cfs 3.447 af

Reach CR43: CUL-039 Peak Depth=1.00' Max Vel=1.7 fps Inflow=11.58 cfs 1.411 af
D=12.0" n=0.024 L=45.0' S=0.0036 '/' Capacity=1.15 cfs Outflow=1.19 cfs 0.925 af

Reach CR47: CUL-041 Peak Depth=0.76' Max Vel=12.9 fps Inflow=11.49 cfs 1.288 af
D=18.0" n=0.013 L=50.0' S=0.0466 '/' Capacity=22.68 cfs Outflow=11.48 cfs 1.287 af

Reach CR48: CUL-042 Peak Depth=1.25' Max Vel=7.3 fps Inflow=12.05 cfs 1.877 af
D=15.0" n=0.013 L=50.0' S=0.0150 '/' Capacity=7.91 cfs Outflow=8.23 cfs 1.877 af

Reach CR74: CUL-068 Peak Depth=1.00' Max Vel=5.5 fps Inflow=4.53 cfs 0.473 af
D=12.0" n=0.013 L=30.0' S=0.0113 '/' Capacity=3.79 cfs Outflow=3.79 cfs 0.473 af

Reach CR75: CUL-069 Peak Depth=1.25' Max Vel=5.1 fps Inflow=14.93 cfs 1.680 af
D=15.0" n=0.013 L=45.0' S=0.0073 '/' Capacity=5.53 cfs Outflow=5.53 cfs 1.680 af

Reach FID1: Culvert Join Peak Depth=1.00' Max Vel=4.8 fps Inflow=7.83 cfs 1.537 af
D=12.0" n=0.011 L=32.0' S=0.0062 '/' Capacity=3.33 cfs Outflow=3.33 cfs 1.537 af

Reach FID191: Peak Depth=0.52' Max Vel=9.2 fps Inflow=3.76 cfs 0.375 af
D=12.0" n=0.013 L=50.0' S=0.0400 '/' Capacity=7.13 cfs Outflow=3.75 cfs 0.375 af

Reach FID30: Culvert Join Peak Depth=1.00' Max Vel=4.8 fps Inflow=9.34 cfs 1.050 af
D=12.0" n=0.011 L=32.0' S=0.0062 '/' Capacity=3.33 cfs Outflow=3.48 cfs 1.050 af

Pond 19P: Detention Area 19(Triple Culve Peak Elev=13.45' Storage=3.368 af Inflow=230.54 cfs 49.798 af
Outflow=289.19 cfs 46.751 af

Pond 21P: Detention Area 21 (Tripple Culve Peak Elev=32.58' Storage=2.285 af Inflow=79.06 cfs 16.904 af
Outflow=95.41 cfs 16.671 af

Pond 483P: Not Surveyed Peak Elev=30.54' Inflow=264.60 cfs 61.549 af
48.0" x 300.0' Culvert Outflow=264.60 cfs 61.549 af

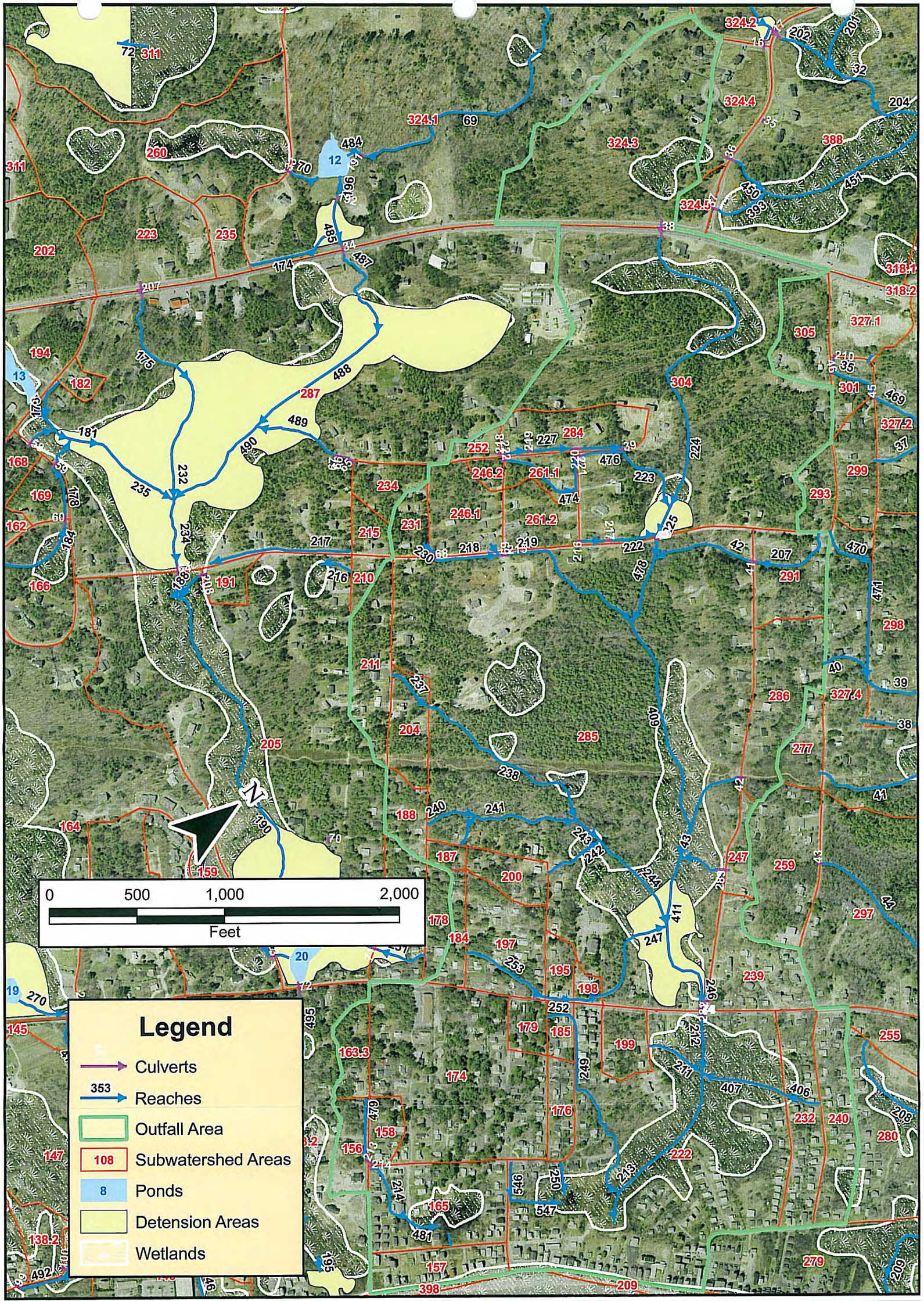
Pond CB87: Peak Elev=27.12' Inflow=264.60 cfs 61.549 af
48.0" x 56.0' Culvert Outflow=264.60 cfs 61.549 af

Pond CB88: Peak Elev=26.62' Inflow=264.60 cfs 61.549 af
48.0" x 56.0' Culvert Outflow=264.60 cfs 61.549 af

Pond ID34: Pond/Wet Area Peak Elev=8.69' Storage=0.760 af Inflow=51.96 cfs 6.518 af
Outflow=58.19 cfs 5.771 af

Pond ID35: Pond/Wet Area Peak Elev=10.02' Storage=2.830 af Inflow=34.45 cfs 5.359 af
Outflow=27.73 cfs 2.557 af

Total Runoff Area = 327.450 ac Runoff Volume = 81.544 af Average Runoff Depth = 2.99"



DRAWN BY: **CJK**	DATE: **MAY 31, 2006**
CHECKED BY: **SJB**	PROJECT: **060057018**

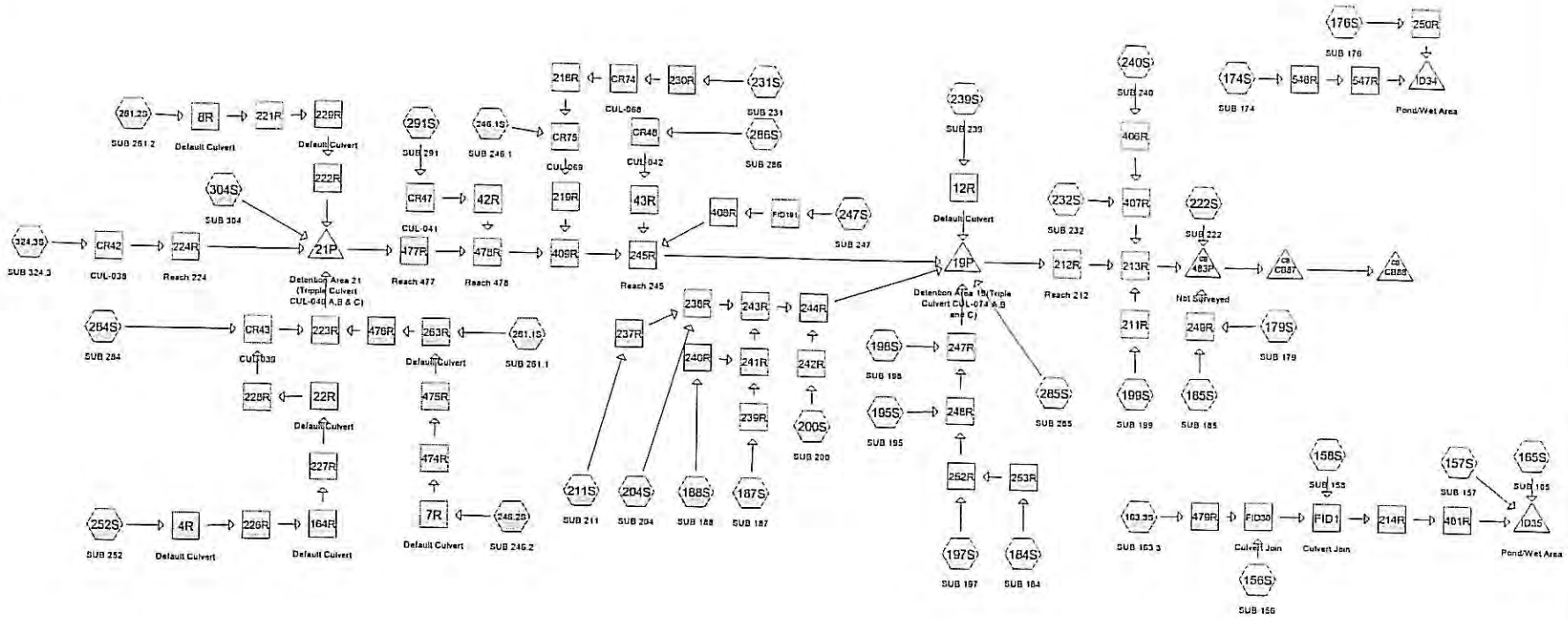
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OUTFALL "J"

Data Sources:
Town of York
Maine Office of GIS

YORK WATERSHED MANAGEMENT
TOWN OF YORK, MAINE

T:\Projects\938\Maps\Outfall_J_11x17.mxd



Subcat Reach Pond Link

Drainage Diagram for Area (J) (50 - Year)

Prepared by Edwards and Kelcey 7/5/2006

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 156S: SUB 156 Runoff Area=1.750 ac Runoff Depth>3.65"
Flow Length=427' Tc=26.7 min CN=83 Runoff=4.74 cfs 0.532 af

Subcatchment 157S: SUB 157 Runoff Area=3.780 ac Runoff Depth>4.26"
Flow Length=556' Tc=37.7 min CN=89 Runoff=9.90 cfs 1.341 af

Subcatchment 158S: SUB 158 Runoff Area=1.670 ac Runoff Depth>3.85"
Flow Length=421' Tc=24.2 min CN=85 Runoff=4.93 cfs 0.536 af

Subcatchment 163.3S: SUB 163.3 Runoff Area=2.200 ac Runoff Depth>3.45"
Flow Length=374' Tc=26.7 min CN=81 Runoff=5.67 cfs 0.632 af

Subcatchment 165S: SUB 165 Runoff Area=8.950 ac Runoff Depth>3.85"
Flow Length=480' Tc=28.2 min CN=85 Runoff=24.74 cfs 2.872 af

Subcatchment 174S: SUB 174 Runoff Area=20.130 ac Runoff Depth>3.85"
Flow Length=1,185' Tc=30.6 min CN=85 Runoff=53.68 cfs 6.454 af

Subcatchment 176S: SUB 176 Runoff Area=2.020 ac Runoff Depth>4.39"
Flow Length=567' Tc=11.6 min CN=90 Runoff=8.73 cfs 0.739 af

Subcatchment 179S: SUB 179 Runoff Area=1.590 ac Runoff Depth>3.95"
Flow Length=231' Tc=28.0 min CN=86 Runoff=4.50 cfs 0.524 af

Subcatchment 184S: SUB 184 Runoff Area=1.650 ac Runoff Depth>3.77"
Flow Length=525' Tc=13.0 min CN=84 Runoff=6.06 cfs 0.518 af

Subcatchment 185S: SUB 185 Runoff Area=1.170 ac Runoff Depth>4.06"
Flow Length=150' Tc=29.8 min CN=87 Runoff=3.29 cfs 0.395 af

Subcatchment 187S: SUB 187 Runoff Area=0.730 ac Runoff Depth>3.66"
Flow Length=206' Tc=18.8 min CN=83 Runoff=2.29 cfs 0.223 af

Subcatchment 188S: SUB 188 Runoff Area=2.150 ac Runoff Depth>3.65"
Flow Length=381' Tc=23.1 min CN=83 Runoff=6.19 cfs 0.654 af

Subcatchment 195S: SUB 195 Runoff Area=1.280 ac Runoff Depth>3.45"
Flow Length=421' Tc=24.5 min CN=81 Runoff=3.42 cfs 0.368 af

Subcatchment 197S: SUB 197 Runoff Area=6.270 ac Runoff Depth>3.74"
Flow Length=866' Tc=32.4 min CN=84 Runoff=15.90 cfs 1.956 af

Subcatchment 198S: SUB 198 Runoff Area=0.680 ac Runoff Depth>3.36"
Flow Length=150' Tc=21.8 min CN=80 Runoff=1.86 cfs 0.190 af

Subcatchment 199S: SUB 199
Runoff Area=2.380 ac Runoff Depth>3.26"
Flow Length=284' Tc=24.4 min CN=79 Runoff=6.04 cfs 0.646 af

Subcatchment 200S: SUB 200
Runoff Area=2.300 ac Runoff Depth>3.65"
Flow Length=379' Tc=22.6 min CN=83 Runoff=6.69 cfs 0.700 af

Subcatchment 204S: SUB 204
Runoff Area=3.230 ac Runoff Depth>3.36"
Flow Length=437' Tc=22.5 min CN=80 Runoff=8.72 cfs 0.903 af

Subcatchment 211S: SUB 211
Runoff Area=3.850 ac Runoff Depth>3.17"
Flow Length=290' Tc=20.3 min CN=78 Runoff=10.25 cfs 1.016 af

Subcatchment 222S: SUB 222
Runoff Area=43.300 ac Runoff Depth>3.61"
Flow Length=1,776' Tc=135.0 min CN=84 Runoff=46.60 cfs 13.009 af

Subcatchment 231S: SUB 231
Runoff Area=1.770 ac Runoff Depth>3.55"
Flow Length=228' Tc=22.7 min CN=82 Runoff=5.01 cfs 0.524 af

Subcatchment 232S: SUB 232
Runoff Area=5.200 ac Runoff Depth>3.93"
Flow Length=1,241' Tc=47.1 min CN=86 Runoff=11.45 cfs 1.704 af

Subcatchment 239S: SUB 239
Runoff Area=5.920 ac Runoff Depth>3.96"
Flow Length=570' Tc=25.4 min CN=86 Runoff=17.51 cfs 1.952 af

Subcatchment 240S: SUB 240
Runoff Area=5.490 ac Runoff Depth>3.95"
Flow Length=632' Tc=28.4 min CN=86 Runoff=15.46 cfs 1.809 af

Subcatchment 246.1S: SUB 246.1
Runoff Area=4.660 ac Runoff Depth>3.45"
Flow Length=420' Tc=25.1 min CN=81 Runoff=12.32 cfs 1.340 af

Subcatchment 246.2S: SUB 246.2
Runoff Area=0.700 ac Runoff Depth>3.46"
Flow Length=239' Tc=20.0 min CN=81 Runoff=2.04 cfs 0.202 af

Subcatchment 247S: SUB 247
Runoff Area=1.400 ac Runoff Depth>3.56"
Flow Length=150' Tc=20.3 min CN=82 Runoff=4.15 cfs 0.415 af

Subcatchment 252S: SUB 252
Runoff Area=0.950 ac Runoff Depth>3.76"
Flow Length=333' Tc=16.8 min CN=84 Runoff=3.18 cfs 0.298 af

Subcatchment 261.1S: SUB 261.1
Runoff Area=2.010 ac Runoff Depth>3.45"
Flow Length=456' Tc=26.1 min CN=81 Runoff=5.22 cfs 0.578 af

Subcatchment 261.2S: SUB 261.2
Runoff Area=3.410 ac Runoff Depth>3.54"
Flow Length=441' Tc=32.5 min CN=82 Runoff=8.24 cfs 1.007 af

Subcatchment 284S: SUB 284
Runoff Area=4.420 ac Runoff Depth>3.44"
Flow Length=564' Tc=34.1 min CN=81 Runoff=10.18 cfs 1.268 af

Subcatchment 285S: SUB 285 Runoff Area=95.880 ac Runoff Depth>2.95"
Flow Length=3,539' Tc=49.8 min CN=76 Runoff=157.91 cfs 23.537 af

Subcatchment 286S: SUB 286 Runoff Area=7.310 ac Runoff Depth>3.42"
Flow Length=956' Tc=53.4 min CN=81 Runoff=13.34 cfs 2.083 af

Subcatchment 291S: SUB 291 Runoff Area=4.970 ac Runoff Depth>3.45"
Flow Length=288' Tc=27.1 min CN=81 Runoff=12.71 cfs 1.429 af

Subcatchment 304S: SUB 304 Runoff Area=50.680 ac Runoff Depth>3.02"
Flow Length=1,328' Tc=64.5 min CN=77 Runoff=73.90 cfs 12.766 af

Subcatchment 324.3S: SUB 324.3 Runoff Area=21.600 ac Runoff Depth>3.05"
Flow Length=1,151' Tc=39.6 min CN=77 Runoff=41.42 cfs 5.491 af

Reach 4R: Default Culvert Peak Depth=0.38' Max Vel=6.2 fps Inflow=3.18 cfs 0.298 af
D=36.0" n=0.011 L=70.0' S=0.0143 '/' Capacity=94.21 cfs Outflow=3.17 cfs 0.298 af

Reach 7R: Default Culvert Peak Depth=0.30' Max Vel=5.4 fps Inflow=2.04 cfs 0.202 af
D=36.0" n=0.011 L=70.0' S=0.0143 '/' Capacity=94.21 cfs Outflow=2.03 cfs 0.202 af

Reach 8R: Default Culvert Peak Depth=0.71' Max Vel=6.4 fps Inflow=8.24 cfs 1.007 af
D=36.0" n=0.011 L=70.0' S=0.0071 '/' Capacity=66.62 cfs Outflow=8.23 cfs 1.006 af

Reach 12R: Default Culvert Peak Depth=1.35' Max Vel=5.7 fps Inflow=17.51 cfs 1.952 af
D=36.0" n=0.011 L=70.0' S=0.0029 '/' Capacity=42.13 cfs Outflow=17.49 cfs 1.952 af

Reach 22R: Default Culvert Peak Depth=0.32' Max Vel=7.8 fps Inflow=3.10 cfs 0.297 af
D=36.0" n=0.011 L=70.0' S=0.0286 '/' Capacity=133.24 cfs Outflow=3.09 cfs 0.297 af

Reach 42R: Peak Depth=0.46' Max Vel=2.6 fps Inflow=12.71 cfs 1.428 af
n=0.040 L=582.0' S=0.0221 '/' Capacity=826.01 cfs Outflow=12.43 cfs 1.421 af

Reach 43R: Peak Depth=0.34' Max Vel=2.5 fps Inflow=7.98 cfs 2.083 af
n=0.040 L=619.0' S=0.0284 '/' Capacity=935.84 cfs Outflow=7.91 cfs 2.072 af

Reach 164R: Default Culvert Peak Depth=0.38' Max Vel=6.2 fps Inflow=3.15 cfs 0.297 af
D=36.0" n=0.011 L=70.0' S=0.0143 '/' Capacity=94.21 cfs Outflow=3.14 cfs 0.297 af

Reach 211R: Peak Depth=0.31' Max Vel=2.1 fps Inflow=6.04 cfs 0.646 af
n=0.030 L=360.0' S=0.0125 '/' Capacity=828.04 cfs Outflow=5.97 cfs 0.643 af

Reach 212R: Reach 212 Peak Depth=4.60' Max Vel=1.2 fps Inflow=267.33 cfs 52.125 af
n=0.050 L=326.0' S=0.0006 '/' Capacity=110.07 cfs Outflow=252.40 cfs 51.720 af

Reach 213R: Peak Depth=4.07' Max Vel=1.4 fps Inflow=279.00 cfs 55.846 af
n=0.050 L=1,061.0' S=0.0009 '/' Capacity=136.42 cfs Outflow=254.84 cfs 54.681 af

Reach 214R: Peak Depth=0.22' Max Vel=1.9 fps Inflow=3.52 cfs 1.700 af
n=0.030 L=428.0' S=0.0154 '/' Capacity=919.70 cfs Outflow=3.33 cfs 1.693 af

Reach 218R: Peak Depth=0.41' Max Vel=3.9 fps Inflow=3.79 cfs 0.524 af
n=0.030 L=374.0' S=0.0333 '/' Capacity=102.91 cfs Outflow=3.80 cfs 0.523 af

Reach 219R: Peak Depth=0.26' Max Vel=2.4 fps Inflow=5.74 cfs 1.863 af
n=0.040 L=916.0' S=0.0366 '/' Capacity=1,063.06 cfs Outflow=5.53 cfs 1.850 af

Reach 221R: Peak Depth=0.88' Max Vel=2.9 fps Inflow=8.23 cfs 1.006 af
n=0.030 L=126.0' S=0.0079 '/' Capacity=50.25 cfs Outflow=8.21 cfs 1.005 af

Reach 222R: Peak Depth=0.57' Max Vel=5.4 fps Inflow=8.20 cfs 1.005 af
n=0.030 L=270.0' S=0.0437 '/' Capacity=117.91 cfs Outflow=8.17 cfs 1.004 af

Reach 223R: Peak Depth=0.48' Max Vel=3.5 fps Inflow=8.18 cfs 1.725 af
n=0.030 L=478.0' S=0.0255 '/' Capacity=230.56 cfs Outflow=8.10 cfs 1.714 af

Reach 224R: Reach 224 Peak Depth=0.36' Max Vel=0.9 fps Inflow=4.80 cfs 3.524 af
n=0.080 L=2,090.0' S=0.0129 '/' Capacity=142.46 cfs Outflow=4.57 cfs 3.046 af

Reach 226R: Peak Depth=0.36' Max Vel=3.4 fps Inflow=3.17 cfs 0.298 af
n=0.030 L=127.0' S=0.0315 '/' Capacity=137.10 cfs Outflow=3.15 cfs 0.297 af

Reach 227R: Peak Depth=0.34' Max Vel=3.6 fps Inflow=3.14 cfs 0.297 af
n=0.030 L=220.0' S=0.0364 '/' Capacity=147.31 cfs Outflow=3.10 cfs 0.297 af

Reach 228R: Peak Depth=0.34' Max Vel=3.6 fps Inflow=3.09 cfs 0.297 af
n=0.030 L=235.0' S=0.0369 '/' Capacity=148.38 cfs Outflow=3.05 cfs 0.296 af

Reach 229R: Default Culvert Peak Depth=0.65' Max Vel=7.2 fps Inflow=8.21 cfs 1.005 af
D=36.0" n=0.011 L=70.0' S=0.0100 '/' Capacity=78.83 cfs Outflow=8.20 cfs 1.005 af

Reach 230R: Peak Depth=0.14' Max Vel=4.8 fps Inflow=5.01 cfs 0.524 af
n=0.022 L=82.0' S=0.0894 '/' Capacity=233.18 cfs Outflow=5.00 cfs 0.524 af

Reach 237R: Peak Depth=0.32' Max Vel=3.4 fps Inflow=10.25 cfs 1.016 af
n=0.040 L=295.0' S=0.0576 '/' Capacity=1,333.44 cfs Outflow=10.15 cfs 1.013 af

Reach 238R: Peak Depth=0.57' Max Vel=2.6 fps Inflow=18.86 cfs 1.917 af
n=0.040 L=1,169.0' S=0.0181 '/' Capacity=748.03 cfs Outflow=17.18 cfs 1.896 af

Reach 239R: Peak Depth=0.16' Max Vel=1.9 fps Inflow=2.29 cfs 0.223 af
n=0.040 L=201.0' S=0.0398 '/' Capacity=1,108.17 cfs Outflow=2.26 cfs 0.222 af

Reach 240R: Peak Depth=0.28' Max Vel=2.5 fps Inflow=6.19 cfs 0.654 af
n=0.040 L=309.0' S=0.0356 '/' Capacity=1,048.04 cfs Outflow=6.12 cfs 0.652 af

Reach 241R: Peak Depth=0.38' Max Vel=3.6 fps Inflow=8.28 cfs 0.875 af
n=0.040 L=604.0' S=0.0384 '/' Capacity=171.73 cfs Outflow=8.18 cfs 0.870 af

Reach 242R: Peak Depth=0.29' Max Vel=2.5 fps Inflow=6.69 cfs 0.700 af
n=0.040 L=365.0' S=0.0356 '/' Capacity=1,048.30 cfs Outflow=6.59 cfs 0.698 af

Reach 243R: Peak Depth=0.77' Max Vel=2.3 fps Inflow=24.86 cfs 2.767 af
n=0.040 L=177.0' S=0.0102 '/' Capacity=560.16 cfs Outflow=24.67 cfs 2.762 af

Reach 244R: Peak Depth=0.73' Max Vel=3.1 fps Inflow=30.12 cfs 3.460 af
n=0.040 L=644.0' S=0.0189 '/' Capacity=764.53 cfs Outflow=29.57 cfs 3.443 af

Reach 245R: Reach 245 Peak Depth=2.38' Max Vel=1.4 fps Inflow=100.36 cfs 23.579 af
n=0.070 L=400.0' S=0.0030 '/' Capacity=173.85 cfs Outflow=98.61 cfs 23.366 af

Reach 247R: Peak Depth=0.69' Max Vel=2.8 fps Inflow=25.19 cfs 3.026 af
n=0.040 L=638.0' S=0.0160 '/' Capacity=702.34 cfs Outflow=24.72 cfs 3.011 af

Reach 248R: Peak Depth=1.11' Max Vel=5.7 fps Inflow=23.54 cfs 2.838 af
n=0.030 L=167.0' S=0.0240 '/' Capacity=87.29 cfs Outflow=23.50 cfs 2.836 af

Reach 249R: Peak Depth=0.50' Max Vel=2.6 fps Inflow=7.79 cfs 0.919 af
n=0.030 L=1,360.0' S=0.0121 '/' Capacity=152.19 cfs Outflow=7.22 cfs 0.909 af

Reach 250R: Peak Depth=0.38' Max Vel=2.3 fps Inflow=8.73 cfs 0.739 af
n=0.040 L=200.0' S=0.0225 '/' Capacity=833.20 cfs Outflow=8.44 cfs 0.738 af

Reach 252R: Peak Depth=1.22' Max Vel=4.2 fps Inflow=20.28 cfs 2.471 af
n=0.030 L=166.0' S=0.0120 '/' Capacity=61.91 cfs Outflow=20.21 cfs 2.469 af

Reach 253R: Peak Depth=0.24' Max Vel=2.9 fps Inflow=6.06 cfs 0.518 af
n=0.030 L=543.0' S=0.0331 '/' Capacity=1,348.45 cfs Outflow=5.85 cfs 0.515 af

Reach 263R: Default Culvert Peak Depth=0.56' Max Vel=7.8 fps Inflow=7.07 cfs 0.778 af
D=36.0" n=0.011 L=70.0' S=0.0143 '/' Capacity=94.21 cfs Outflow=7.06 cfs 0.778 af

Reach 406R: Peak Depth=0.70' Max Vel=1.7 fps Inflow=15.46 cfs 1.809 af
n=0.030 L=214.0' S=0.0033 '/' Capacity=423.58 cfs Outflow=15.33 cfs 1.804 af

Reach 407R: Peak Depth=1.09' Max Vel=1.4 fps Inflow=25.77 cfs 3.508 af
n=0.050 L=497.0' S=0.0036 '/' Capacity=267.43 cfs Outflow=24.96 cfs 3.482 af

Reach 408R: Peak Depth=0.24' Max Vel=2.1 fps Inflow=4.14 cfs 0.415 af
n=0.040 L=241.0' S=0.0290 '/' Capacity=946.67 cfs Outflow=4.09 cfs 0.414 af

Reach 409R: Peak Depth=1.40' Max Vel=3.3 fps Inflow=97.57 cfs 21.399 af
n=0.040 L=1,453.0' S=0.0103 '/' Capacity=564.38 cfs Outflow=91.82 cfs 21.093 af

Reach 474R: Peak Depth=0.13' Max Vel=2.0 fps Inflow=2.03 cfs 0.202 af
n=0.030 L=461.0' S=0.0304 '/' Capacity=1,290.66 cfs Outflow=1.97 cfs 0.201 af

Reach 475R: Peak Depth=0.40' Max Vel=2.2 fps Inflow=1.97 cfs 0.201 af
n=0.030 L=191.0' S=0.0105 '/' Capacity=57.72 cfs Outflow=1.94 cfs 0.200 af

Reach 476R: Peak Depth=0.49' Max Vel=5.8 fps Inflow=7.06 cfs 0.778 af
n=0.022 L=243.0' S=0.0322 '/' Capacity=138.06 cfs Outflow=7.03 cfs 0.777 af

Reach 477R: Reach 477 Peak Depth=1.87' Max Vel=2.4 fps Inflow=138.92 cfs 18.289 af
n=0.040 L=109.0' S=0.0039 '/' Capacity=348.88 cfs Outflow=88.37 cfs 18.259 af

Reach 478R: Reach 478 Peak Depth=1.89' Max Vel=2.0 fps Inflow=96.14 cfs 19.680 af
n=0.040 L=390.0' S=0.0026 '/' Capacity=281.27 cfs Outflow=92.04 cfs 19.549 af

Reach 479R: Peak Depth=0.49' Max Vel=4.6 fps Inflow=5.67 cfs 0.632 af
n=0.030 L=363.0' S=0.0386 '/' Capacity=110.77 cfs Outflow=5.63 cfs 0.631 af

Reach 481R: Peak Depth=0.38' Max Vel=0.9 fps Inflow=3.33 cfs 1.693 af
n=0.050 L=192.0' S=0.0052 '/' Capacity=320.70 cfs Outflow=3.33 cfs 1.687 af

Reach 546R: Peak Depth=1.81' Max Vel=5.3 fps Inflow=53.68 cfs 6.454 af
n=0.030 L=223.0' S=0.0112 '/' Capacity=66.92 cfs Outflow=53.45 cfs 6.449 af

Reach 547R: Peak Depth=1.10' Max Vel=2.8 fps Inflow=53.45 cfs 6.449 af
n=0.040 L=300.0' S=0.0100 '/' Capacity=555.47 cfs Outflow=53.08 cfs 6.435 af

Reach CR42: CUL-038 Peak Depth=2.00' Max Vel=2.3 fps Inflow=41.42 cfs 5.491 af
D=24.0" n=0.025 L=110.0' S=0.0030 '/' Capacity=4.57 cfs Outflow=4.80 cfs 3.524 af

Reach CR43: CUL-039 Peak Depth=1.00' Max Vel=1.7 fps Inflow=12.79 cfs 1.564 af
D=12.0" n=0.024 L=45.0' S=0.0036 '/' Capacity=1.15 cfs Outflow=1.21 cfs 0.948 af

Reach CR47: CUL-041 Peak Depth=0.80' Max Vel=13.2 fps Inflow=12.71 cfs 1.429 af
D=18.0" n=0.013 L=50.0' S=0.0466 '/' Capacity=22.68 cfs Outflow=12.71 cfs 1.428 af

Reach CR48: CUL-042 Peak Depth=1.25' Max Vel=7.3 fps Inflow=13.34 cfs 2.083 af
D=15.0" n=0.013 L=50.0' S=0.0150 '/' Capacity=7.91 cfs Outflow=7.98 cfs 2.083 af

Reach CR74: CUL-068 Peak Depth=1.00' Max Vel=5.5 fps Inflow=5.00 cfs 0.524 af
D=12.0" n=0.013 L=30.0' S=0.0113 '/' Capacity=3.79 cfs Outflow=3.79 cfs 0.524 af

Reach CR75: CUL-069 Peak Depth=1.25' Max Vel=5.1 fps Inflow=16.11 cfs 1.863 af
D=15.0" n=0.013 L=45.0' S=0.0073 '/' Capacity=5.53 cfs Outflow=5.74 cfs 1.863 af

Reach FID1: Culvert Join Peak Depth=1.00' Max Vel=4.8 fps Inflow=8.26 cfs 1.700 af
D=12.0" n=0.011 L=32.0' S=0.0062 '/' Capacity=3.33 cfs Outflow=3.52 cfs 1.700 af

Reach FID191: Peak Depth=0.55' Max Vel=9.4 fps Inflow=4.15 cfs 0.415 af
D=12.0" n=0.013 L=50.0' S=0.0400 '/' Capacity=7.13 cfs Outflow=4.14 cfs 0.415 af

Reach FID30: Culvert Join Peak Depth=1.00' Max Vel=4.8 fps Inflow=10.32 cfs 1.163 af
D=12.0" n=0.011 L=32.0' S=0.0062 '/' Capacity=3.33 cfs Outflow=3.33 cfs 1.163 af

Pond 19P: Detention Area 19(Triple Culve Peak Elev=13.36' Storage=3.368 af Inflow=256.53 cfs 55.309 af
Outflow=267.33 cfs 52.125 af

Pond 21P: Detention Area 21 (Tripple Culve Peak Elev=32.83' Storage=2.285 af Inflow=87.88 cfs 18.530 af
Outflow=138.92 cfs 18.289 af

Pond 483P: Not Surveyed Peak Elev=35.64' Inflow=295.61 cfs 68.599 af
48.0" x 300.0' Culvert Outflow=295.61 cfs 68.599 af

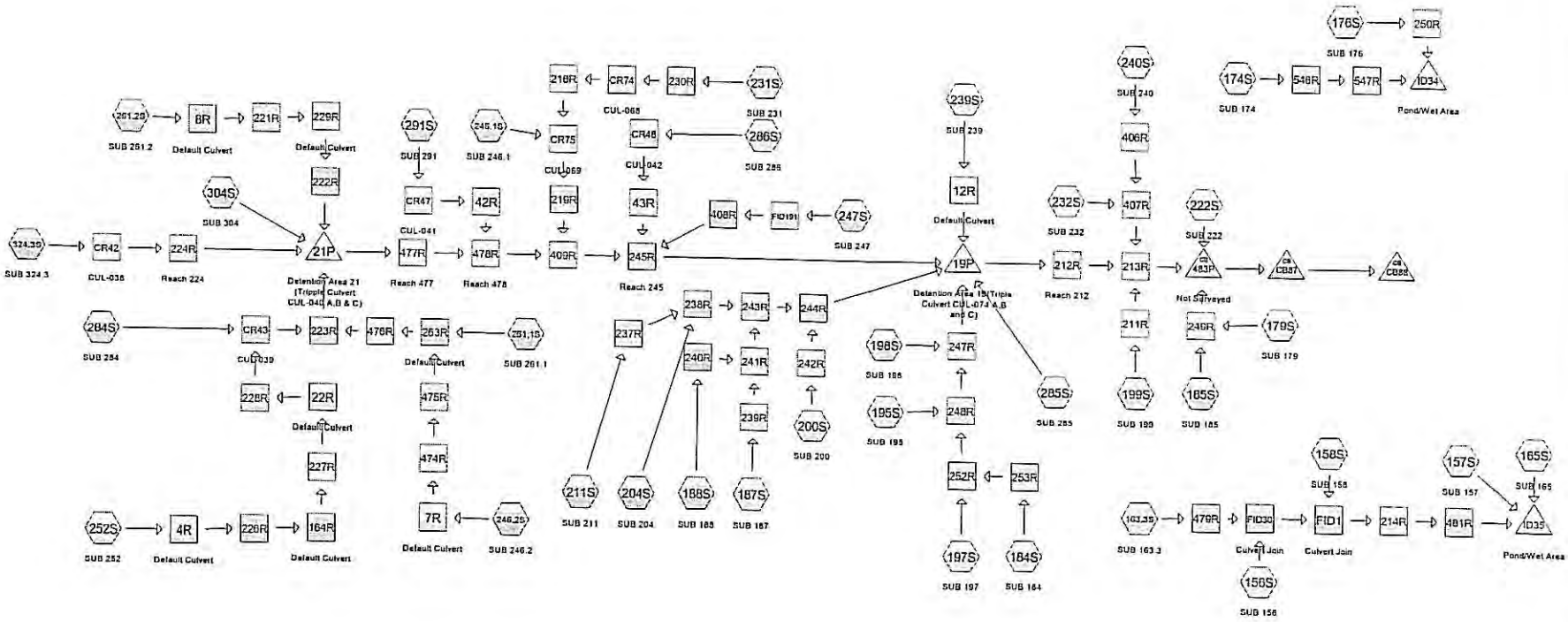
Pond CB87: Peak Elev=31.87' Inflow=295.61 cfs 68.599 af
48.0" x 56.0' Culvert Outflow=295.61 cfs 68.599 af

Pond CB88: Peak Elev=31.37' Inflow=295.61 cfs 68.599 af
48.0" x 56.0' Culvert Outflow=295.61 cfs 68.599 af

Pond ID34: Pond/Wet Area Peak Elev=8.67' Storage=0.760 af Inflow=56.98 cfs 7.173 af
Outflow=56.95 cfs 6.413 af

Pond ID35: Pond/Wet Area Peak Elev=10.10' Storage=2.830 af Inflow=37.39 cfs 5.900 af
Outflow=29.90 cfs 3.085 af

Total Runoff Area = 327.450 ac Runoff Volume = 90.609 af Average Runoff Depth = 3.32"



Subcat Reach Pond Link

Drainage Diagram for Area (J) (100 - Year)

Prepared by Edwards and Kelcey 7/5/2006

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 156S: SUB 156 Runoff Area=1.750 ac Runoff Depth>4.35"
Flow Length=427' Tc=26.7 min CN=83 Runoff=5.61 cfs 0.635 af

Subcatchment 157S: SUB 157 Runoff Area=3.780 ac Runoff Depth>4.99"
Flow Length=556' Tc=37.7 min CN=89 Runoff=11.50 cfs 1.572 af

Subcatchment 158S: SUB 158 Runoff Area=1.670 ac Runoff Depth>4.57"
Flow Length=421' Tc=24.2 min CN=85 Runoff=5.81 cfs 0.636 af

Subcatchment 163.3S: SUB 163.3 Runoff Area=2.200 ac Runoff Depth>4.14"
Flow Length=374' Tc=26.7 min CN=81 Runoff=6.76 cfs 0.759 af

Subcatchment 165S: SUB 165 Runoff Area=8.950 ac Runoff Depth>4.57"
Flow Length=480' Tc=28.2 min CN=85 Runoff=29.12 cfs 3.406 af

Subcatchment 174S: SUB 174 Runoff Area=20.130 ac Runoff Depth>4.56"
Flow Length=1,185' Tc=30.6 min CN=85 Runoff=63.17 cfs 7.656 af

Subcatchment 176S: SUB 176 Runoff Area=2.020 ac Runoff Depth>5.13"
Flow Length=567' Tc=11.6 min CN=90 Runoff=10.11 cfs 0.863 af

Subcatchment 179S: SUB 179 Runoff Area=1.590 ac Runoff Depth>4.68"
Flow Length=231' Tc=28.0 min CN=86 Runoff=5.29 cfs 0.620 af

Subcatchment 184S: SUB 184 Runoff Area=1.650 ac Runoff Depth>4.48"
Flow Length=525' Tc=13.0 min CN=84 Runoff=7.15 cfs 0.616 af

Subcatchment 185S: SUB 185 Runoff Area=1.170 ac Runoff Depth>4.78"
Flow Length=150' Tc=29.8 min CN=87 Runoff=3.85 cfs 0.466 af

Subcatchment 187S: SUB 187 Runoff Area=0.730 ac Runoff Depth>4.36"
Flow Length=206' Tc=18.8 min CN=83 Runoff=2.71 cfs 0.265 af

Subcatchment 188S: SUB 188 Runoff Area=2.150 ac Runoff Depth>4.36"
Flow Length=381' Tc=23.1 min CN=83 Runoff=7.34 cfs 0.781 af

Subcatchment 195S: SUB 195 Runoff Area=1.280 ac Runoff Depth>4.14"
Flow Length=421' Tc=24.5 min CN=81 Runoff=4.08 cfs 0.442 af

Subcatchment 197S: SUB 197 Runoff Area=6.270 ac Runoff Depth>4.45"
Flow Length=866' Tc=32.4 min CN=84 Runoff=18.78 cfs 2.327 af

Subcatchment 198S: SUB 198 Runoff Area=0.680 ac Runoff Depth>4.04"
Flow Length=150' Tc=21.8 min CN=80 Runoff=2.23 cfs 0.229 af

Subcatchment 199S: SUB 199
Runoff Area=2.380 ac Runoff Depth>3.94"
Flow Length=284' Tc=24.4 min CN=79 Runoff=7.26 cfs 0.781 af

Subcatchment 200S: SUB 200
Runoff Area=2.300 ac Runoff Depth>4.36"
Flow Length=379' Tc=22.6 min CN=83 Runoff=7.92 cfs 0.836 af

Subcatchment 204S: SUB 204
Runoff Area=3.230 ac Runoff Depth>4.04"
Flow Length=437' Tc=22.5 min CN=80 Runoff=10.45 cfs 1.088 af

Subcatchment 211S: SUB 211
Runoff Area=3.850 ac Runoff Depth>3.84"
Flow Length=290' Tc=20.3 min CN=78 Runoff=12.37 cfs 1.231 af

Subcatchment 222S: SUB 222
Runoff Area=43.300 ac Runoff Depth>4.29"
Flow Length=1,776' Tc=135.0 min CN=84 Runoff=55.19 cfs 15.494 af

Subcatchment 231S: SUB 231
Runoff Area=1.770 ac Runoff Depth>4.25"
Flow Length=228' Tc=22.7 min CN=82 Runoff=5.96 cfs 0.627 af

Subcatchment 232S: SUB 232
Runoff Area=5.200 ac Runoff Depth>4.65"
Flow Length=1,241' Tc=47.1 min CN=86 Runoff=13.44 cfs 2.015 af

Subcatchment 239S: SUB 239
Runoff Area=5.920 ac Runoff Depth>4.68"
Flow Length=570' Tc=25.4 min CN=86 Runoff=20.54 cfs 2.309 af

Subcatchment 240S: SUB 240
Runoff Area=5.490 ac Runoff Depth>4.68"
Flow Length=632' Tc=28.4 min CN=86 Runoff=18.13 cfs 2.139 af

Subcatchment 246.1S: SUB 246.1
Runoff Area=4.660 ac Runoff Depth>4.14"
Flow Length=420' Tc=25.1 min CN=81 Runoff=14.70 cfs 1.609 af

Subcatchment 246.2S: SUB 246.2
Runoff Area=0.700 ac Runoff Depth>4.15"
Flow Length=239' Tc=20.0 min CN=81 Runoff=2.43 cfs 0.242 af

Subcatchment 247S: SUB 247
Runoff Area=1.400 ac Runoff Depth>4.26"
Flow Length=150' Tc=20.3 min CN=82 Runoff=4.94 cfs 0.496 af

Subcatchment 252S: SUB 252
Runoff Area=0.950 ac Runoff Depth>4.47"
Flow Length=333' Tc=16.8 min CN=84 Runoff=3.76 cfs 0.354 af

Subcatchment 261.1S: SUB 261.1
Runoff Area=2.010 ac Runoff Depth>4.14"
Flow Length=456' Tc=26.1 min CN=81 Runoff=6.23 cfs 0.694 af

Subcatchment 261.2S: SUB 261.2
Runoff Area=3.410 ac Runoff Depth>4.24"
Flow Length=441' Tc=32.5 min CN=82 Runoff=9.80 cfs 1.205 af

Subcatchment 284S: SUB 284
Runoff Area=4.420 ac Runoff Depth>4.13"
Flow Length=564' Tc=34.1 min CN=81 Runoff=12.15 cfs 1.522 af

Subcatchment 285S: SUB 285 Runoff Area=95.880 ac Runoff Depth>3.60"
Flow Length=3,539' Tc=49.8 min CN=76 Runoff=192.22 cfs 28.731 af

Subcatchment 286S: SUB 286 Runoff Area=7.310 ac Runoff Depth>4.11"
Flow Length=956' Tc=53.4 min CN=81 Runoff=15.91 cfs 2.501 af

Subcatchment 291S: SUB 291 Runoff Area=4.970 ac Runoff Depth>4.14"
Flow Length=288' Tc=27.1 min CN=81 Runoff=15.17 cfs 1.715 af

Subcatchment 304S: SUB 304 Runoff Area=50.680 ac Runoff Depth>3.68"
Flow Length=1,328' Tc=64.5 min CN=77 Runoff=89.66 cfs 15.533 af

Subcatchment 324.3S: SUB 324.3 Runoff Area=21.600 ac Runoff Depth>3.71"
Flow Length=1,151' Tc=39.6 min CN=77 Runoff=50.19 cfs 6.679 af

Reach 4R: Default Culvert Peak Depth=0.41' Max Vel=6.5 fps Inflow=3.76 cfs 0.354 af
D=36.0" n=0.011 L=70.0' S=0.0143 '/' Capacity=94.21 cfs Outflow=3.75 cfs 0.354 af

Reach 7R: Default Culvert Peak Depth=0.33' Max Vel=5.7 fps Inflow=2.43 cfs 0.242 af
D=36.0" n=0.011 L=70.0' S=0.0143 '/' Capacity=94.21 cfs Outflow=2.42 cfs 0.242 af

Reach 8R: Default Culvert Peak Depth=0.78' Max Vel=6.7 fps Inflow=9.80 cfs 1.205 af
D=36.0" n=0.011 L=70.0' S=0.0071 '/' Capacity=66.62 cfs Outflow=9.79 cfs 1.205 af

Reach 12R: Default Culvert Peak Depth=1.48' Max Vel=5.9 fps Inflow=20.54 cfs 2.309 af
D=36.0" n=0.011 L=70.0' S=0.0029 '/' Capacity=42.13 cfs Outflow=20.51 cfs 2.308 af

Reach 22R: Default Culvert Peak Depth=0.34' Max Vel=8.2 fps Inflow=3.66 cfs 0.353 af
D=36.0" n=0.011 L=70.0' S=0.0286 '/' Capacity=133.24 cfs Outflow=3.65 cfs 0.353 af

Reach 42R: Peak Depth=0.50' Max Vel=2.7 fps Inflow=15.17 cfs 1.715 af
n=0.040 L=582.0' S=0.0221 '/' Capacity=826.01 cfs Outflow=14.87 cfs 1.707 af

Reach 43R: Peak Depth=0.34' Max Vel=2.5 fps Inflow=8.41 cfs 2.501 af
n=0.040 L=619.0' S=0.0284 '/' Capacity=935.84 cfs Outflow=7.91 cfs 2.489 af

Reach 164R: Default Culvert Peak Depth=0.41' Max Vel=6.5 fps Inflow=3.72 cfs 0.354 af
D=36.0" n=0.011 L=70.0' S=0.0143 '/' Capacity=94.21 cfs Outflow=3.71 cfs 0.354 af

Reach 211R: Peak Depth=0.34' Max Vel=2.2 fps Inflow=7.26 cfs 0.781 af
n=0.030 L=360.0' S=0.0125 '/' Capacity=828.04 cfs Outflow=7.18 cfs 0.777 af

Reach 212R: Reach 212 Peak Depth=5.17' Max Vel=1.2 fps Inflow=308.01 cfs 63.210 af
n=0.050 L=326.0' S=0.0006 '/' Capacity=110.07 cfs Outflow=303.41 cfs 62.801 af

Reach 213R: Peak Depth=4.56' Max Vel=1.5 fps Inflow=334.92 cfs 67.699 af
n=0.050 L=1,061.0' S=0.0009 '/' Capacity=136.42 cfs Outflow=309.20 cfs 66.509 af

Reach 214R: Peak Depth=0.22' Max Vel=1.9 fps Inflow=3.33 cfs 2.029 af
n=0.030 L=428.0' S=0.0154 '/' Capacity=919.70 cfs Outflow=3.33 cfs 2.022 af

Reach 218R: Peak Depth=0.42' Max Vel=4.0 fps Inflow=4.27 cfs 0.627 af
n=0.030 L=374.0' S=0.0333 '/' Capacity=102.91 cfs Outflow=3.86 cfs 0.626 af

Reach 219R: Peak Depth=0.26' Max Vel=2.4 fps Inflow=5.85 cfs 2.235 af
n=0.040 L=916.0' S=0.0366 '/' Capacity=1,063.06 cfs Outflow=5.53 cfs 2.220 af

Reach 221R: Peak Depth=0.95' Max Vel=3.0 fps Inflow=9.79 cfs 1.205 af
n=0.030 L=126.0' S=0.0079 '/' Capacity=50.25 cfs Outflow=9.76 cfs 1.203 af

Reach 222R: Peak Depth=0.63' Max Vel=5.6 fps Inflow=9.75 cfs 1.203 af
n=0.030 L=270.0' S=0.0437 '/' Capacity=117.91 cfs Outflow=9.72 cfs 1.202 af

Reach 223R: Peak Depth=0.51' Max Vel=3.7 fps Inflow=9.57 cfs 1.924 af
n=0.030 L=478.0' S=0.0255 '/' Capacity=230.56 cfs Outflow=9.48 cfs 1.912 af

Reach 224R: Reach 224 Peak Depth=0.36' Max Vel=0.9 fps Inflow=4.84 cfs 3.678 af
n=0.080 L=2,090.0' S=0.0129 '/' Capacity=142.46 cfs Outflow=4.57 cfs 3.200 af

Reach 226R: Peak Depth=0.39' Max Vel=3.6 fps Inflow=3.75 cfs 0.354 af
n=0.030 L=127.0' S=0.0315 '/' Capacity=137.10 cfs Outflow=3.72 cfs 0.354 af

Reach 227R: Peak Depth=0.37' Max Vel=3.8 fps Inflow=3.71 cfs 0.354 af
n=0.030 L=220.0' S=0.0364 '/' Capacity=147.31 cfs Outflow=3.66 cfs 0.353 af

Reach 228R: Peak Depth=0.37' Max Vel=3.8 fps Inflow=3.65 cfs 0.353 af
n=0.030 L=235.0' S=0.0369 '/' Capacity=148.38 cfs Outflow=3.61 cfs 0.353 af

Reach 229R: Default Culvert Peak Depth=0.71' Max Vel=7.6 fps Inflow=9.76 cfs 1.203 af
D=36.0" n=0.011 L=70.0' S=0.0100 '/' Capacity=78.83 cfs Outflow=9.75 cfs 1.203 af

Reach 230R: Peak Depth=0.15' Max Vel=5.1 fps Inflow=5.96 cfs 0.627 af
n=0.022 L=82.0' S=0.0894 '/' Capacity=233.18 cfs Outflow=5.95 cfs 0.627 af

Reach 237R: Peak Depth=0.36' Max Vel=3.6 fps Inflow=12.37 cfs 1.231 af
n=0.040 L=295.0' S=0.0576 '/' Capacity=1,333.44 cfs Outflow=12.26 cfs 1.229 af

Reach 238R: Peak Depth=0.62' Max Vel=2.8 fps Inflow=22.69 cfs 2.317 af
n=0.040 L=1,169.0' S=0.0181 '/' Capacity=748.03 cfs Outflow=20.83 cfs 2.294 af

Reach 239R: Peak Depth=0.17' Max Vel=2.0 fps Inflow=2.71 cfs 0.265 af
n=0.040 L=201.0' S=0.0398 '/' Capacity=1,108.17 cfs Outflow=2.67 cfs 0.265 af

Reach 240R: Peak Depth=0.31' Max Vel=2.6 fps Inflow=7.34 cfs 0.781 af
n=0.040 L=309.0' S=0.0356 '/' Capacity=1,048.04 cfs Outflow=7.25 cfs 0.779 af

Reach 241R: Peak Depth=0.43' Max Vel=3.8 fps Inflow=9.81 cfs 1.044 af
n=0.040 L=604.0' S=0.0384 '/' Capacity=171.73 cfs Outflow=9.69 cfs 1.039 af

Reach 242R: Peak Depth=0.32' Max Vel=2.7 fps Inflow=7.92 cfs 0.836 af
n=0.040 L=365.0' S=0.0356 '/' Capacity=1,048.30 cfs Outflow=7.82 cfs 0.833 af

Reach 243R: Peak Depth=0.84' Max Vel=2.5 fps Inflow=29.95 cfs 3.333 af
n=0.040 L=177.0' S=0.0102 '/' Capacity=560.16 cfs Outflow=29.72 cfs 3.328 af

Reach 244R: Peak Depth=0.79' Max Vel=3.2 fps Inflow=36.28 cfs 4.161 af
n=0.040 L=644.0' S=0.0189 '/' Capacity=764.53 cfs Outflow=35.72 cfs 4.142 af

Reach 245R: Reach 245 Peak Depth=2.59' Max Vel=1.5 fps Inflow=122.67 cfs 28.014 af
n=0.070 L=400.0' S=0.0030 '/' Capacity=173.85 cfs Outflow=121.03 cfs 27.791 af

Reach 247R: Peak Depth=0.75' Max Vel=2.9 fps Inflow=29.78 cfs 3.607 af
n=0.040 L=638.0' S=0.0160 '/' Capacity=702.34 cfs Outflow=29.27 cfs 3.591 af

Reach 248R: Peak Depth=1.20' Max Vel=5.9 fps Inflow=27.80 cfs 3.380 af
n=0.030 L=167.0' S=0.0240 '/' Capacity=87.29 cfs Outflow=27.74 cfs 3.378 af

Reach 249R: Peak Depth=0.54' Max Vel=2.8 fps Inflow=9.12 cfs 1.086 af
n=0.030 L=1,360.0' S=0.0121 '/' Capacity=152.19 cfs Outflow=8.49 cfs 1.075 af

Reach 250R: Peak Depth=0.41' Max Vel=2.4 fps Inflow=10.11 cfs 0.863 af
n=0.040 L=200.0' S=0.0225 '/' Capacity=833.20 cfs Outflow=9.78 cfs 0.861 af

Reach 252R: Peak Depth=1.31' Max Vel=4.4 fps Inflow=23.89 cfs 2.940 af
n=0.030 L=166.0' S=0.0120 '/' Capacity=61.91 cfs Outflow=23.82 cfs 2.938 af

Reach 253R: Peak Depth=0.26' Max Vel=3.1 fps Inflow=7.15 cfs 0.616 af
n=0.030 L=543.0' S=0.0331 '/' Capacity=1,348.45 cfs Outflow=6.94 cfs 0.613 af

Reach 263R: Default Culvert Peak Depth=0.61' Max Vel=8.3 fps Inflow=8.46 cfs 0.934 af
D=36.0" n=0.011 L=70.0' S=0.0143 '/' Capacity=94.21 cfs Outflow=8.45 cfs 0.934 af

Reach 406R: Peak Depth=0.76' Max Vel=1.7 fps Inflow=18.13 cfs 2.139 af
n=0.030 L=214.0' S=0.0033 '/' Capacity=423.58 cfs Outflow=17.98 cfs 2.134 af

Reach 407R: Peak Depth=1.17' Max Vel=1.4 fps Inflow=30.21 cfs 4.149 af
n=0.050 L=497.0' S=0.0036 '/' Capacity=267.43 cfs Outflow=29.32 cfs 4.121 af

Reach 408R: Peak Depth=0.26' Max Vel=2.2 fps Inflow=4.93 cfs 0.496 af
n=0.040 L=241.0' S=0.0290 '/' Capacity=946.67 cfs Outflow=4.86 cfs 0.495 af

Reach 409R: Peak Depth=1.53' Max Vel=3.5 fps Inflow=119.15 cfs 25.350 af
n=0.040 L=1,453.0' S=0.0103 '/' Capacity=564.38 cfs Outflow=113.94 cfs 25.030 af

Reach 474R: Peak Depth=0.15' Max Vel=2.1 fps Inflow=2.42 cfs 0.242 af
n=0.030 L=461.0' S=0.0304 '/' Capacity=1,290.66 cfs Outflow=2.35 cfs 0.241 af

Reach 475R: Peak Depth=0.44' Max Vel=2.3 fps Inflow=2.35 cfs 0.241 af
n=0.030 L=191.0' S=0.0105 '/' Capacity=57.72 cfs Outflow=2.32 cfs 0.240 af

Reach 476R: Peak Depth=0.54' Max Vel=6.1 fps Inflow=8.45 cfs 0.934 af
n=0.022 L=243.0' S=0.0322 '/' Capacity=138.06 cfs Outflow=8.42 cfs 0.933 af

Reach 477R: Reach 477 Peak Depth=1.92' Max Vel=2.4 fps Inflow=121.08 cfs 21.591 af
n=0.040 L=109.0' S=0.0039 '/' Capacity=348.88 cfs Outflow=105.97 cfs 21.559 af

Reach 478R: Reach 478 Peak Depth=2.06' Max Vel=2.1 fps Inflow=115.95 cfs 23.266 af
n=0.040 L=390.0' S=0.0026 '/' Capacity=281.27 cfs Outflow=113.62 cfs 23.130 af

Reach 479R: Peak Depth=0.54' Max Vel=4.9 fps Inflow=6.76 cfs 0.759 af
n=0.030 L=363.0' S=0.0386 '/' Capacity=110.77 cfs Outflow=6.71 cfs 0.758 af

Reach 481R: Peak Depth=0.38' Max Vel=0.9 fps Inflow=3.33 cfs 2.022 af
n=0.050 L=192.0' S=0.0052 '/' Capacity=320.70 cfs Outflow=3.33 cfs 2.015 af

Reach 546R: Peak Depth=1.95' Max Vel=5.5 fps Inflow=63.17 cfs 7.656 af
n=0.030 L=223.0' S=0.0112 '/' Capacity=66.92 cfs Outflow=62.91 cfs 7.650 af

Reach 547R: Peak Depth=1.19' Max Vel=3.0 fps Inflow=62.91 cfs 7.650 af
n=0.040 L=300.0' S=0.0100 '/' Capacity=555.47 cfs Outflow=62.48 cfs 7.635 af

Reach CR42: CUL-038 Peak Depth=2.00' Max Vel=2.3 fps Inflow=50.19 cfs 6.679 af
D=24.0" n=0.025 L=110.0' S=0.0030 '/' Capacity=4.57 cfs Outflow=4.84 cfs 3.678 af

Reach CR43: CUL-039 Peak Depth=1.00' Max Vel=1.7 fps Inflow=15.21 cfs 1.875 af
D=12.0" n=0.024 L=45.0' S=0.0036 '/' Capacity=1.15 cfs Outflow=1.22 cfs 0.990 af

Reach CR47: CUL-041 Peak Depth=0.90' Max Vel=13.7 fps Inflow=15.17 cfs 1.715 af
D=18.0" n=0.013 L=50.0' S=0.0466 '/' Capacity=22.68 cfs Outflow=15.17 cfs 1.715 af

Reach CR48: CUL-042 Peak Depth=1.25' Max Vel=7.3 fps Inflow=15.91 cfs 2.501 af
D=15.0" n=0.013 L=50.0' S=0.0150 '/' Capacity=7.91 cfs Outflow=8.41 cfs 2.501 af

Reach CR74: CUL-068 Peak Depth=1.00' Max Vel=5.4 fps Inflow=5.95 cfs 0.627 af
D=12.0" n=0.013 L=30.0' S=0.0113 '/' Capacity=3.79 cfs Outflow=4.27 cfs 0.627 af

Reach CR75: CUL-069 Peak Depth=1.25' Max Vel=5.1 fps Inflow=18.50 cfs 2.235 af
D=15.0" n=0.013 L=45.0' S=0.0073 '/' Capacity=5.53 cfs Outflow=5.85 cfs 2.235 af

Reach FID1: Culvert Join Peak Depth=1.00' Max Vel=4.8 fps Inflow=9.14 cfs 2.029 af
D=12.0" n=0.011 L=32.0' S=0.0062 '/' Capacity=3.33 cfs Outflow=3.33 cfs 2.029 af

Reach FID191: Peak Depth=0.61' Max Vel=9.8 fps Inflow=4.94 cfs 0.496 af
D=12.0" n=0.013 L=50.0' S=0.0400 '/' Capacity=7.13 cfs Outflow=4.93 cfs 0.496 af

Reach FID30: Culvert Join Peak Depth=1.00' Max Vel=4.8 fps Inflow=12.28 cfs 1.393 af
D=12.0" n=0.011 L=32.0' S=0.0062 '/' Capacity=3.33 cfs Outflow=3.33 cfs 1.393 af

Pond 19P: Detention Area 19(Triple Culve Peak Elev=13.53' Storage=3.368 af Inflow=308.26 cfs 66.563 af
Outflow=308.01 cfs 63.210 af

Pond 21P: Detention Area 21 (Tripple Culv Peak Elev=32.73' Storage=2.285 af Inflow=105.55 cfs 21.848 af
Outflow=121.08 cfs 21.591 af

Pond 483P: Not Surveyed Peak Elev=47.31' Inflow=356.59 cfs 83.078 af
48.0" x 300.0' Culvert Outflow=356.59 cfs 83.078 af

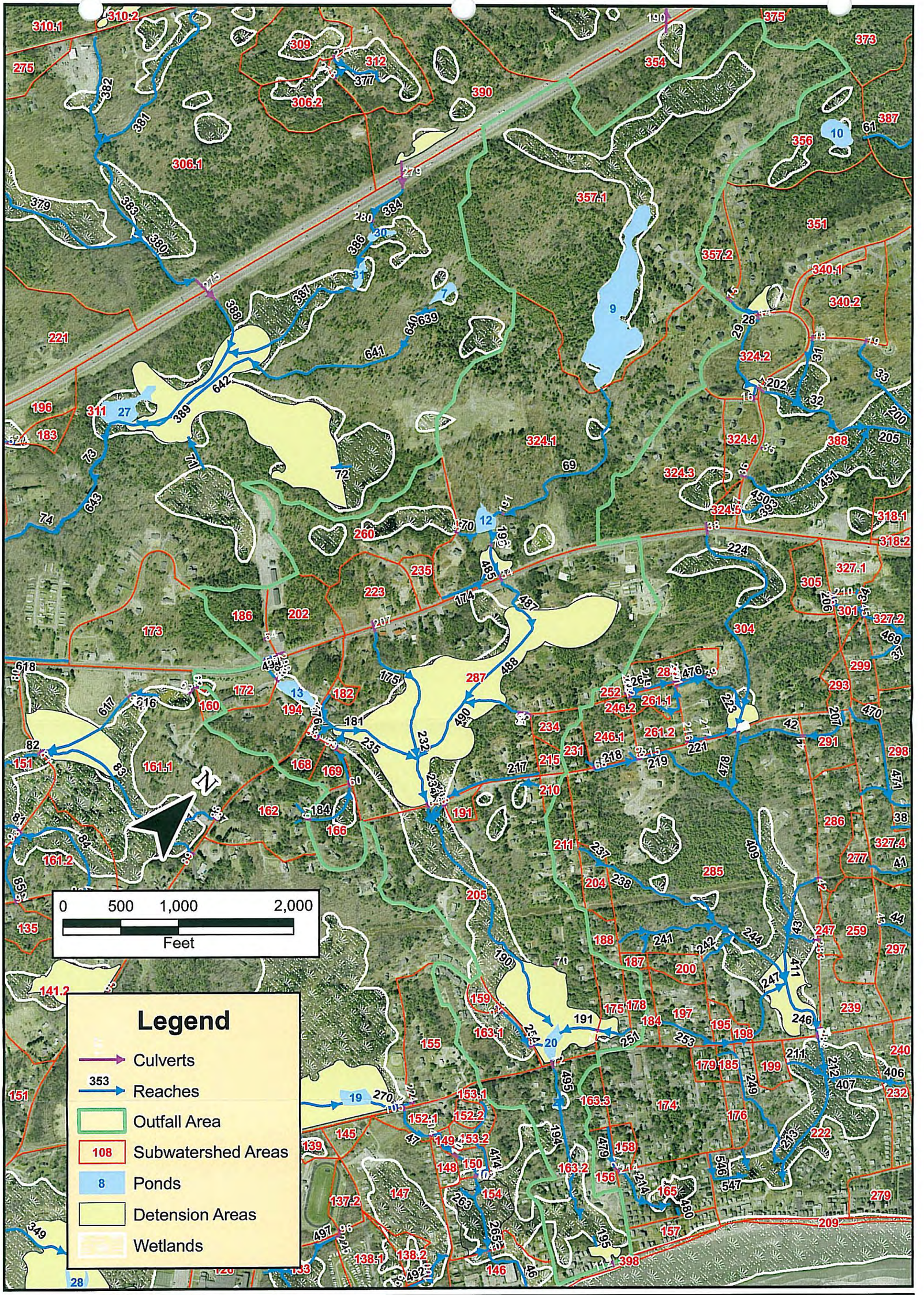
Pond CB87: Peak Elev=42.73' Inflow=356.59 cfs 83.078 af
48.0" x 56.0' Culvert Outflow=356.59 cfs 83.078 af

Pond CB88: Peak Elev=42.23' Inflow=356.59 cfs 83.078 af
48.0" x 56.0' Culvert Outflow=356.59 cfs 83.078 af

Pond ID34: Pond/Wet Area Peak Elev=8.87' Storage=0.760 af Inflow=67.02 cfs 8.496 af
Outflow=67.66 cfs 7.735 af

Pond ID35: Pond/Wet Area Peak Elev=10.69' Storage=2.830 af Inflow=43.27 cfs 6.993 af
Outflow=57.25 cfs 4.206 af

Total Runoff Area = 327.450 ac Runoff Volume = 109.074 af Average Runoff Depth = 4.00"



DRAWN BY: **CJK**	DATE: **MAY 31, 2006**
CHECKED BY: **SJB**	PROJECT: **060057018**

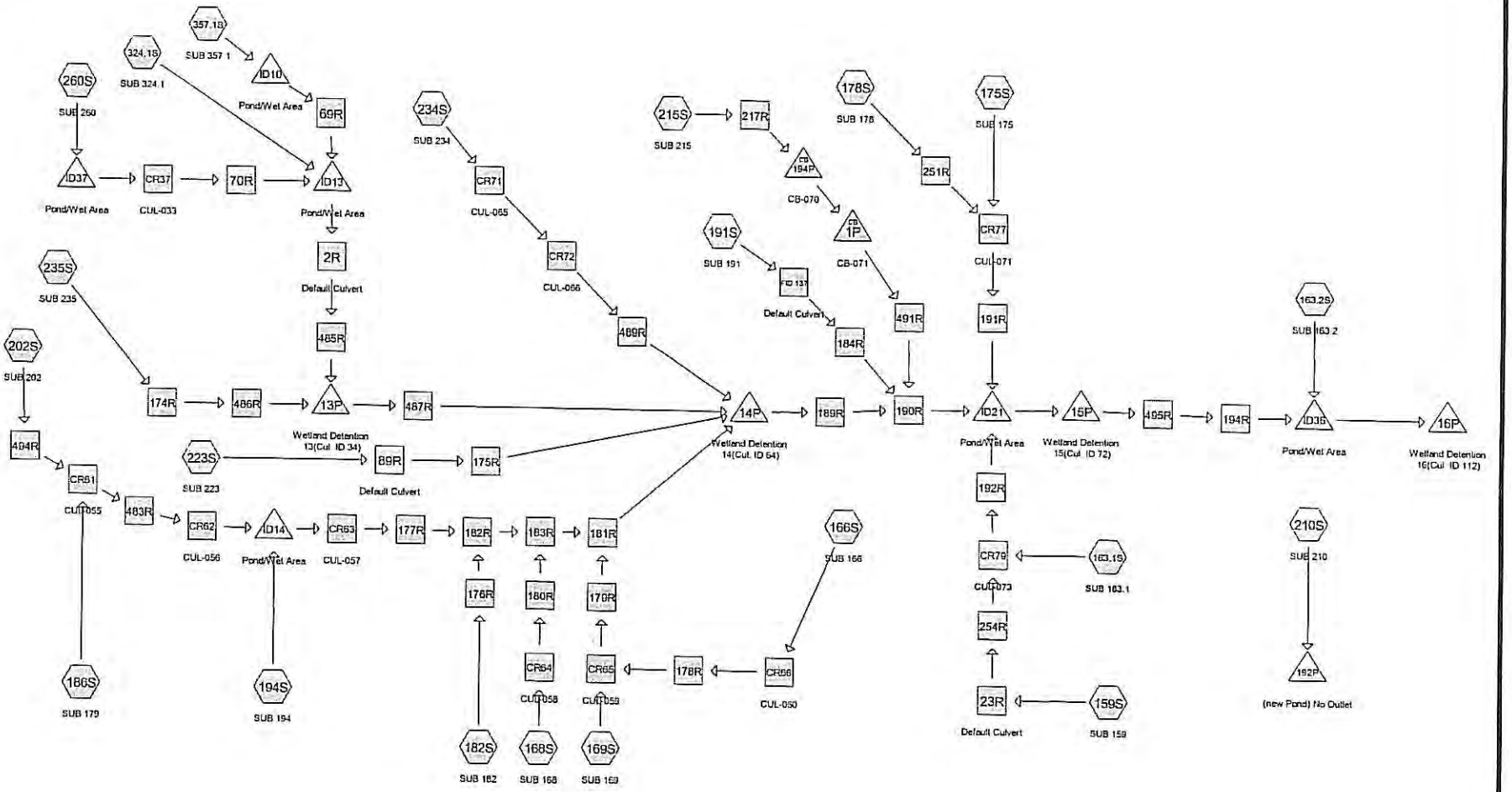
OUTFALL "K"

Data Sources:
Town of York
Maine Office of GIS

YORK WATERSHED MANAGEMENT
TOWN OF YORK, MAINE

T:\Projects\938\Maps\Outfall_K_11x17.mxd

Edwards AND Kelcey
ENGINEERS
ARCHITECTS
PLANNERS
CONSTRUCTORS
222 St. John Street Suite 314
Portland, Maine 04102
Tel. (207) 828-1272 Fax (207) 774-6907
www.ekcorp.com



Drainage Diagram for Area (K) (25 - Year)

Prepared by Edwards and Kelcey 7/5/2006

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 159S: SUB 159
Runoff Area=0.930 ac Runoff Depth>3.51"
Flow Length=256' Tc=19.4 min CN=85 Runoff=2.75 cfs 0.272 af

Subcatchment 163.1S: SUB 163.1
Runoff Area=9.540 ac Runoff Depth>3.10"
Flow Length=524' Tc=31.9 min CN=81 Runoff=20.50 cfs 2.468 af

Subcatchment 163.2S: SUB 163.2
Runoff Area=22.740 ac Runoff Depth>2.99"
Flow Length=2,060' Tc=48.3 min CN=80 Runoff=38.48 cfs 5.672 af

Subcatchment 166S: SUB 166
Runoff Area=6.310 ac Runoff Depth>3.00"
Flow Length=659' Tc=42.7 min CN=80 Runoff=11.41 cfs 1.577 af

Subcatchment 168S: SUB 168
Runoff Area=2.170 ac Runoff Depth>2.84"
Flow Length=390' Tc=20.2 min CN=78 Runoff=5.20 cfs 0.513 af

Subcatchment 169S: SUB 169
Runoff Area=2.060 ac Runoff Depth>2.84"
Flow Length=307' Tc=21.2 min CN=78 Runoff=4.84 cfs 0.487 af

Subcatchment 175S: SUB 175
Runoff Area=4.530 ac Runoff Depth>3.20"
Flow Length=650' Tc=28.6 min CN=82 Runoff=10.50 cfs 1.209 af

Subcatchment 178S: SUB 178
Runoff Area=2.000 ac Runoff Depth>3.01"
Flow Length=490' Tc=28.8 min CN=80 Runoff=4.38 cfs 0.502 af

Subcatchment 182S: SUB 182
Runoff Area=0.820 ac Runoff Depth>3.61"
Flow Length=150' Tc=13.8 min CN=86 Runoff=2.82 cfs 0.247 af

Subcatchment 186S: SUB 179
Runoff Area=5.780 ac Runoff Depth>2.92"
Flow Length=231' Tc=28.0 min CN=79 Runoff=12.42 cfs 1.407 af

Subcatchment 191S: SUB 191
Runoff Area=1.380 ac Runoff Depth>3.21"
Flow Length=210' Tc=22.2 min CN=82 Runoff=3.57 cfs 0.369 af

Subcatchment 194S: SUB 194
Runoff Area=13.070 ac Runoff Depth>3.11"
Flow Length=723' Tc=27.7 min CN=81 Runoff=29.90 cfs 3.385 af

Subcatchment 202S: SUB 202
Runoff Area=7.530 ac Runoff Depth>3.30"
Flow Length=841' Tc=29.7 min CN=83 Runoff=17.63 cfs 2.069 af

Subcatchment 210S: SUB 210
Runoff Area=0.900 ac Runoff Depth>3.20"
Flow Length=216' Tc=29.0 min CN=82 Runoff=2.08 cfs 0.240 af

Subcatchment 215S: SUB 215
Runoff Area=1.380 ac Runoff Depth>3.30"
Flow Length=274' Tc=27.4 min CN=83 Runoff=3.35 cfs 0.380 af

Subcatchment 223S: SUB 223 Runoff Area=7.700 ac Runoff Depth>2.92"
Flow Length=593' Tc=29.8 min CN=79 Runoff=16.11 cfs 1.873 af

Subcatchment 234S: SUB 234 Runoff Area=2.230 ac Runoff Depth>3.01"
Flow Length=400' Tc=29.3 min CN=80 Runoff=4.84 cfs 0.560 af

Subcatchment 235S: SUB 235 Runoff Area=1.610 ac Runoff Depth>2.93"
Flow Length=415' Tc=19.6 min CN=79 Runoff=4.03 cfs 0.393 af

Subcatchment 260S: SUB 260 Runoff Area=19.960 ac Runoff Depth>2.82"
Flow Length=677' Tc=35.9 min CN=78 Runoff=37.12 cfs 4.693 af

Subcatchment 324.1S: SUB 324.1 Runoff Area=35.980 ac Runoff Depth>2.82"
Flow Length=2,915' Tc=38.1 min CN=78 Runoff=64.93 cfs 8.454 af

Subcatchment 357.1S: SUB 357.1 Runoff Area=90.720 ac Runoff Depth>2.91"
Flow Length=1,897' Tc=35.2 min CN=79 Runoff=175.48 cfs 22.029 af

Reach 2R: Default Culvert Peak Depth=3.00' Max Vel=8.3 fps Inflow=91.88 cfs 7.049 af
D=36.0" n=0.011 L=70.0' S=0.0043 '/' Capacity=51.60 cfs Outflow=55.45 cfs 7.036 af

Reach 23R: Default Culvert Peak Depth=0.35' Max Vel=5.9 fps Inflow=2.75 cfs 0.272 af
D=36.0" n=0.011 L=70.0' S=0.0143 '/' Capacity=94.21 cfs Outflow=2.74 cfs 0.272 af

Reach 69R: Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.040 L=1,785.0' S=0.0258 '/' Capacity=891.70 cfs Outflow=0.00 cfs 0.000 af

Reach 70R: Peak Depth=0.14' Max Vel=2.9 fps Inflow=2.63 cfs 1.426 af
n=0.035 L=173.0' S=0.0828 '/' Capacity=1,827.05 cfs Outflow=2.66 cfs 1.418 af

Reach 89R: Default Culvert Peak Depth=0.84' Max Vel=9.9 fps Inflow=16.11 cfs 1.873 af
D=36.0" n=0.011 L=70.0' S=0.0143 '/' Capacity=94.21 cfs Outflow=16.10 cfs 1.873 af

Reach 174R: Peak Depth=0.40' Max Vel=4.4 fps Inflow=4.03 cfs 0.393 af
n=0.030 L=409.0' S=0.0440 '/' Capacity=118.32 cfs Outflow=3.98 cfs 0.392 af

Reach 175R: Peak Depth=0.47' Max Vel=3.2 fps Inflow=16.10 cfs 1.873 af
n=0.040 L=641.0' S=0.0328 '/' Capacity=1,005.40 cfs Outflow=15.88 cfs 1.864 af

Reach 176R: Peak Depth=0.36' Max Vel=3.1 fps Inflow=2.82 cfs 0.247 af
n=0.035 L=250.0' S=0.0340 '/' Capacity=122.09 cfs Outflow=2.75 cfs 0.246 af

Reach 177R: Peak Depth=0.35' Max Vel=1.8 fps Inflow=5.74 cfs 2.190 af
n=0.040 L=90.0' S=0.0144 '/' Capacity=667.59 cfs Outflow=5.61 cfs 2.182 af

Reach 178R: Peak Depth=0.23' Max Vel=3.2 fps Inflow=1.40 cfs 1.080 af
n=0.030 L=285.0' S=0.0418 '/' Capacity=115.35 cfs Outflow=1.40 cfs 1.075 af

Reach 179R: Peak Depth=0.22' Max Vel=1.6 fps Inflow=2.81 cfs 1.560 af
n=0.040 L=161.0' S=0.0188 '/' Capacity=760.76 cfs Outflow=2.81 cfs 1.552 af

Reach 180R: Peak Depth=0.17' Max Vel=1.2 fps Inflow=1.57 cfs 0.513 af
n=0.040 L=141.0' S=0.0135 '/' Capacity=644.80 cfs Outflow=1.57 cfs 0.512 af

Reach 181R: Peak Depth=0.53' Max Vel=1.7 fps Inflow=10.21 cfs 4.473 af
n=0.040 L=180.0' S=0.0083 '/' Capacity=507.07 cfs Outflow=10.21 cfs 4.446 af

Reach 182R: Peak Depth=0.35' Max Vel=1.8 fps Inflow=5.84 cfs 2.428 af
n=0.040 L=70.0' S=0.0143 '/' Capacity=663.91 cfs Outflow=5.84 cfs 2.422 af

Reach 183R: Peak Depth=0.44' Max Vel=1.6 fps Inflow=7.41 cfs 2.933 af
n=0.040 L=110.0' S=0.0091 '/' Capacity=529.62 cfs Outflow=7.40 cfs 2.921 af

Reach 184R: Peak Depth=0.19' Max Vel=2.4 fps Inflow=3.57 cfs 0.369 af
n=0.040 L=164.0' S=0.0518 '/' Capacity=1,264.58 cfs Outflow=3.54 cfs 0.368 af

Reach 189R: Peak Depth=0.68' Max Vel=1.2 fps Inflow=10.43 cfs 4.940 af
n=0.040 L=162.0' S=0.0031 '/' Capacity=308.59 cfs Outflow=10.43 cfs 4.876 af

Reach 190R: Peak Depth=0.69' Max Vel=1.2 fps Inflow=10.62 cfs 5.620 af
n=0.040 L=162.0' S=0.0031 '/' Capacity=308.59 cfs Outflow=10.61 cfs 5.555 af

Reach 191R: Peak Depth=0.20' Max Vel=1.1 fps Inflow=1.67 cfs 1.316 af
n=0.040 L=316.0' S=0.0093 '/' Capacity=536.69 cfs Outflow=1.67 cfs 1.293 af

Reach 192R: Peak Depth=0.45' Max Vel=3.1 fps Inflow=15.08 cfs 2.738 af
n=0.040 L=70.0' S=0.0326 '/' Capacity=1,002.48 cfs Outflow=14.74 cfs 2.737 af

Reach 194R: Peak Depth=0.41' Max Vel=2.7 fps Inflow=11.57 cfs 3.804 af
n=0.035 L=1,027.0' S=0.0214 '/' Capacity=929.13 cfs Outflow=11.46 cfs 3.606 af

Reach 217R: Peak Depth=0.44' Max Vel=3.1 fps Inflow=3.35 cfs 0.380 af
n=0.030 L=832.0' S=0.0192 '/' Capacity=78.22 cfs Outflow=3.26 cfs 0.377 af

Reach 251R: Peak Depth=0.28' Max Vel=1.8 fps Inflow=4.38 cfs 0.502 af
n=0.040 L=294.0' S=0.0177 '/' Capacity=738.73 cfs Outflow=4.33 cfs 0.500 af

Reach 254R: Peak Depth=0.45' Max Vel=2.5 fps Inflow=2.74 cfs 0.272 af
n=0.030 L=378.0' S=0.0124 '/' Capacity=62.69 cfs Outflow=2.69 cfs 0.271 af

Reach 483R: Peak Depth=0.13' Max Vel=2.6 fps Inflow=2.54 cfs 2.003 af
n=0.030 L=100.0' S=0.0480 '/' Capacity=1,622.63 cfs Outflow=2.51 cfs 1.999 af

Reach 485R: Peak Depth=1.07' Max Vel=3.0 fps Inflow=55.45 cfs 7.036 af
n=0.040 L=251.0' S=0.0120 '/' Capacity=607.27 cfs Outflow=52.60 cfs 7.009 af

Reach 486R: Peak Depth=0.25' Max Vel=1.9 fps Inflow=3.98 cfs 0.392 af
n=0.035 L=186.0' S=0.0172 '/' Capacity=832.66 cfs Outflow=3.92 cfs 0.391 af

Reach 487R: Peak Depth=1.08' Max Vel=2.5 fps Inflow=75.83 cfs 7.396 af
n=0.030 L=616.0' S=0.0043 '/' Capacity=485.77 cfs Outflow=44.33 cfs 7.314 af

Reach 489R: Peak Depth=0.26' Max Vel=1.7 fps Inflow=4.04 cfs 0.560 af
n=0.040 L=504.0' S=0.0183 '/' Capacity=750.48 cfs Outflow=3.70 cfs 0.556 af

Reach 491R: Peak Depth=0.19' Max Vel=2.2 fps Inflow=3.26 cfs 0.377 af
n=0.040 L=155.0' S=0.0419 '/' Capacity=1,137.50 cfs Outflow=3.24 cfs 0.376 af

Reach 494R: Peak Depth=0.82' Max Vel=6.8 fps Inflow=17.63 cfs 2.069 af
n=0.030 L=100.0' S=0.0480 '/' Capacity=123.57 cfs Outflow=17.61 cfs 2.069 af

Reach 495R: Peak Depth=0.85' Max Vel=0.9 fps Inflow=11.67 cfs 4.016 af
n=0.100 L=375.0' S=0.0093 '/' Capacity=214.65 cfs Outflow=11.57 cfs 3.804 af

Reach CR37: CUL-033 Peak Depth=1.25' Max Vel=2.1 fps Inflow=16.36 cfs 1.606 af
D=15.0" n=0.024 L=30.0' S=0.0057 '/' Capacity=2.63 cfs Outflow=2.63 cfs 1.426 af

Reach CR61: CUL-055 Peak Depth=1.25' Max Vel=2.3 fps Inflow=29.99 cfs 3.476 af
D=15.0" n=0.025 L=95.0' S=0.0053 '/' Capacity=2.44 cfs Outflow=2.54 cfs 2.003 af

Reach CR62: CUL-056 Peak Depth=0.51' Max Vel=5.3 fps Inflow=2.51 cfs 1.999 af
D=15.0" n=0.010 L=45.0' S=0.0073 '/' Capacity=7.19 cfs Outflow=2.51 cfs 1.998 af

Reach CR63: CUL-057 Peak Depth=1.25' Max Vel=5.2 fps Inflow=11.41 cfs 2.198 af
D=15.0" n=0.010 L=45.0' S=0.0044 '/' Capacity=5.60 cfs Outflow=5.74 cfs 2.190 af

Reach CR64: CUL-058 Peak Depth=1.00' Max Vel=2.3 fps Inflow=5.20 cfs 0.513 af
D=12.0" n=0.024 L=50.0' S=0.0066 '/' Capacity=1.57 cfs Outflow=1.57 cfs 0.513 af

Reach CR65: CUL-059 Peak Depth=1.25' Max Vel=2.6 fps Inflow=6.24 cfs 1.562 af
D=15.0" n=0.024 L=45.0' S=0.0064 '/' Capacity=2.81 cfs Outflow=2.81 cfs 1.560 af

Reach CR66: CUL-060 Peak Depth=1.00' Max Vel=2.0 fps Inflow=11.41 cfs 1.577 af
D=12.0" n=0.024 L=65.0' S=0.0052 '/' Capacity=1.40 cfs Outflow=1.40 cfs 1.080 af

Reach CR71: CUL-065 Peak Depth=1.00' Max Vel=6.3 fps Inflow=4.84 cfs 0.560 af
D=12.0" n=0.024 L=35.0' S=0.0500 '/' Capacity=4.32 cfs Outflow=4.44 cfs 0.560 af

Reach CR72: CUL-066 Peak Depth=1.00' Max Vel=5.3 fps Inflow=4.44 cfs 0.560 af
D=12.0" n=0.024 L=80.0' S=0.0363 '/' Capacity=3.67 cfs Outflow=4.04 cfs 0.560 af

Reach CR77: CUL-071 Peak Depth=1.00' Max Vel=2.4 fps Inflow=14.66 cfs 1.709 af
D=12.0" n=0.024 L=20.0' S=0.0075 '/' Capacity=1.67 cfs Outflow=1.67 cfs 1.316 af

Reach CR79: CUL-073 Peak Depth=1.50' Max Vel=9.3 fps Inflow=22.96 cfs 2.738 af
D=18.0" n=0.013 L=55.0' S=0.0191 '/' Capacity=14.51 cfs Outflow=15.08 cfs 2.738 af

Reach FID 137: Default Culvert Peak Depth=0.53' Max Vel=7.3 fps Inflow=3.57 cfs 0.369 af
D=15.0" n=0.013 L=45.0' S=0.0222 '/' Capacity=9.63 cfs Outflow=3.57 cfs 0.369 af

Pond 1P: CB-071 Peak Elev=59.24' Inflow=3.26 cfs 0.377 af
12.0" x 50.0' Culvert Outflow=3.26 cfs 0.377 af

Pond 13P: Wetland Detention 13(Cul. ID 34) Peak Elev=129.15' Storage=0.930 af Inflow=54.67 cfs 7.400 af
24.0" x 70.0' Culvert Outflow=75.83 cfs 7.396 af

Pond 14P: Wetland Detention 14(Cul. ID 64) Peak Elev=53.67' Storage=9.234 af Inflow=56.85 cfs 14.180 af
52.0" x 50.0' Culvert Outflow=10.43 cfs 4.940 af

Pond 15P: Wetland Detention 15(Cul. ID 72) Peak Elev=36.34' Storage=3.148 af Inflow=36.77 cfs 7.145 af
48.0" x 80.0' Culvert Outflow=11.67 cfs 4.016 af

Pond 16P: Wetland Detention 16(Cul. ID 112) Peak Elev=7.18' Storage=0.447 af Inflow=20.86 cfs 1.072 af
50.0" x 55.0' Culvert Outflow=11.42 cfs 0.638 af

Pond 192P: (new Pond) No Outlet Inflow=2.08 cfs 0.240 af
Primary=2.08 cfs 0.240 af

Pond 194P: CB-070 Peak Elev=65.24' Inflow=3.26 cfs 0.377 af
12.0" x 80.0' Culvert Outflow=3.26 cfs 0.377 af

Pond ID10: Pond/Wet Area Peak Elev=117.23' Storage=22.017 af Inflow=175.48 cfs 22.029 af
Outflow=0.00 cfs 0.000 af

Pond ID13: Pond/Wet Area Peak Elev=72.27' Storage=2.880 af Inflow=64.93 cfs 9.872 af
Outflow=91.88 cfs 7.049 af

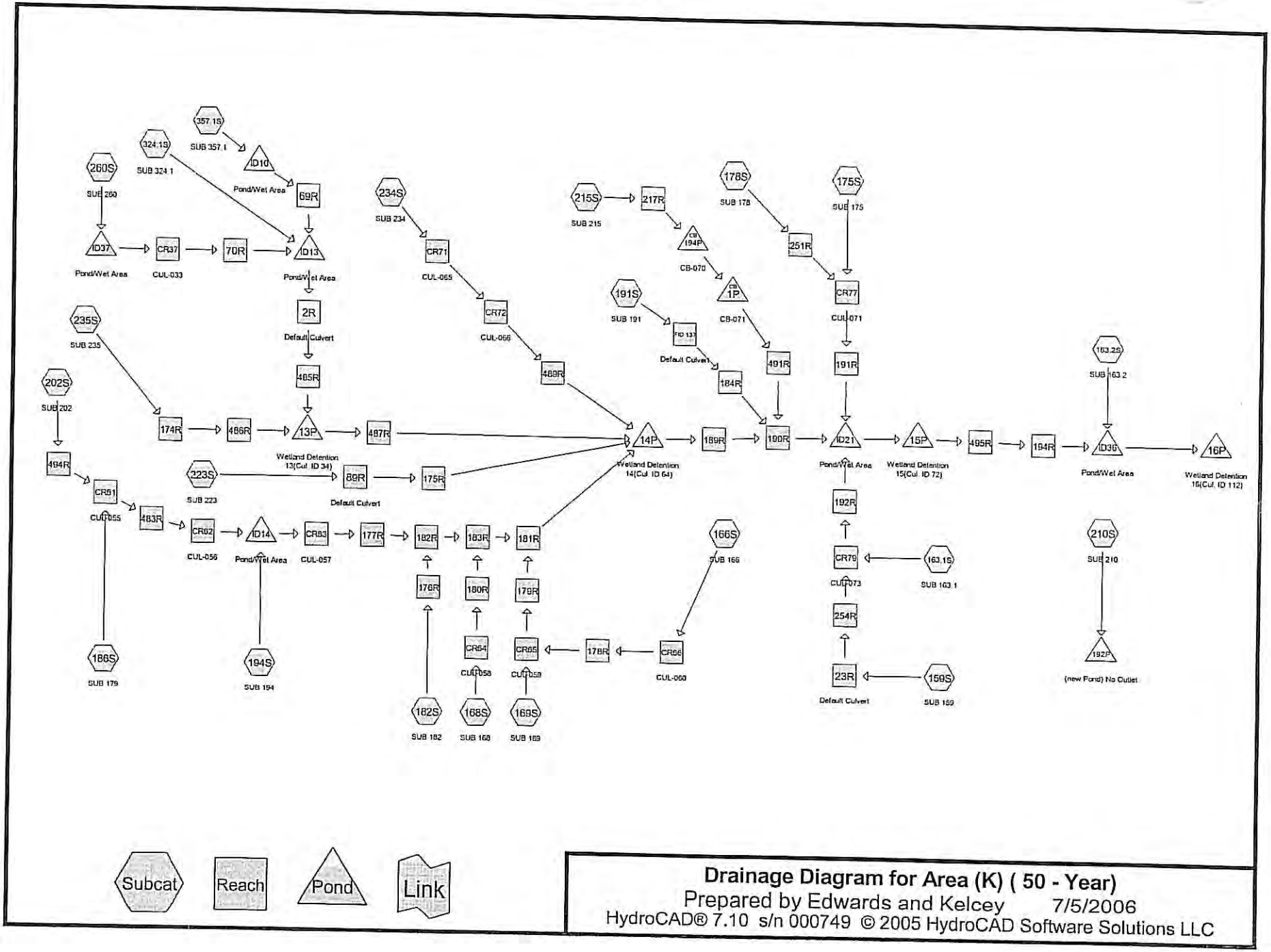
Pond ID14: Pond/Wet Area Peak Elev=62.57' Storage=3.195 af Inflow=32.34 cfs 5.383 af
Outflow=11.41 cfs 2.198 af

Pond ID21: Pond/Wet Area Peak Elev=36.24' Storage=2.430 af Inflow=22.41 cfs 9.585 af
Outflow=36.77 cfs 7.145 af

Pond ID36: Pond/Wet Area Peak Elev=8.85' Storage=8.190 af Inflow=38.48 cfs 9.278 af
Outflow=20.86 cfs 1.072 af

Pond ID37: Pond/Wet Area Peak Elev=90.72' Storage=3.105 af Inflow=37.12 cfs 4.693 af
Outflow=16.36 cfs 1.606 af

Total Runoff Area = 239.340 ac Runoff Volume = 58.798 af Average Runoff Depth = 2.95"



Drainage Diagram for Area (K) (50 - Year)

Prepared by Edwards and Kelcey 7/5/2006

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 159S: SUB 159 Runoff Area=0.930 ac Runoff Depth>3.86"
Flow Length=256' Tc=19.4 min CN=85 Runoff=3.02 cfs 0.299 af

Subcatchment 163.1S: SUB 163.1 Runoff Area=9.540 ac Runoff Depth>3.44"
Flow Length=524' Tc=31.9 min CN=81 Runoff=22.67 cfs 2.738 af

Subcatchment 163.2S: SUB 163.2 Runoff Area=22.740 ac Runoff Depth>3.33"
Flow Length=2,060' Tc=48.3 min CN=80 Runoff=42.68 cfs 6.306 af

Subcatchment 166S: SUB 166 Runoff Area=6.310 ac Runoff Depth>3.33"
Flow Length=659' Tc=42.7 min CN=80 Runoff=12.66 cfs 1.753 af

Subcatchment 168S: SUB 168 Runoff Area=2.170 ac Runoff Depth>3.17"
Flow Length=390' Tc=20.2 min CN=78 Runoff=5.79 cfs 0.572 af

Subcatchment 169S: SUB 169 Runoff Area=2.060 ac Runoff Depth>3.16"
Flow Length=307' Tc=21.2 min CN=78 Runoff=5.39 cfs 0.543 af

Subcatchment 175S: SUB 175 Runoff Area=4.530 ac Runoff Depth>3.55"
Flow Length=650' Tc=28.6 min CN=82 Runoff=11.59 cfs 1.339 af

Subcatchment 178S: SUB 178 Runoff Area=2.000 ac Runoff Depth>3.35"
Flow Length=490' Tc=28.8 min CN=80 Runoff=4.85 cfs 0.558 af

Subcatchment 182S: SUB 182 Runoff Area=0.820 ac Runoff Depth>3.97"
Flow Length=150' Tc=13.8 min CN=86 Runoff=3.09 cfs 0.271 af

Subcatchment 186S: SUB 179 Runoff Area=5.780 ac Runoff Depth>3.25"
Flow Length=231' Tc=28.0 min CN=79 Runoff=13.80 cfs 1.567 af

Subcatchment 191S: SUB 191 Runoff Area=1.380 ac Runoff Depth>3.55"
Flow Length=210' Tc=22.2 min CN=82 Runoff=3.95 cfs 0.409 af

Subcatchment 194S: SUB 194 Runoff Area=13.070 ac Runoff Depth>3.45"
Flow Length=723' Tc=27.7 min CN=81 Runoff=33.08 cfs 3.756 af

Subcatchment 202S: SUB 202 Runoff Area=7.530 ac Runoff Depth>3.65"
Flow Length=841' Tc=29.7 min CN=83 Runoff=19.42 cfs 2.287 af

Subcatchment 210S: SUB 210 Runoff Area=0.900 ac Runoff Depth>3.55"
Flow Length=216' Tc=29.0 min CN=82 Runoff=2.29 cfs 0.266 af

Subcatchment 215S: SUB 215 Runoff Area=1.380 ac Runoff Depth>3.65"
Flow Length=274' Tc=27.4 min CN=83 Runoff=3.69 cfs 0.420 af

Subcatchment 223S: SUB 223 Runoff Area=7.700 ac Runoff Depth>3.25"
Flow Length=593' Tc=29.8 min CN=79 Runoff=17.90 cfs 2.086 af

Subcatchment 234S: SUB 234 Runoff Area=2.230 ac Runoff Depth>3.35"
Flow Length=400' Tc=29.3 min CN=80 Runoff=5.37 cfs 0.622 af

Subcatchment 235S: SUB 235 Runoff Area=1.610 ac Runoff Depth>3.26"
Flow Length=415' Tc=19.6 min CN=79 Runoff=4.48 cfs 0.438 af

Subcatchment 260S: SUB 260 Runoff Area=19.960 ac Runoff Depth>3.15"
Flow Length=677' Tc=35.9 min CN=78 Runoff=41.35 cfs 5.238 af

Subcatchment 324.1S: SUB 324.1 Runoff Area=35.980 ac Runoff Depth>3.15"
Flow Length=2,915' Tc=38.1 min CN=78 Runoff=72.39 cfs 9.434 af

Subcatchment 357.1S: SUB 357.1 Runoff Area=90.720 ac Runoff Depth>3.25"
Flow Length=1,897' Tc=35.2 min CN=79 Runoff=195.01 cfs 24.536 af

Reach 2R: Default Culvert Peak Depth=3.00' Max Vel=8.3 fps Inflow=127.76 cfs 8.153 af
D=36.0" n=0.011 L=70.0' S=0.0043 '/' Capacity=51.60 cfs Outflow=51.60 cfs 8.161 af

Reach 23R: Default Culvert Peak Depth=0.37' Max Vel=6.1 fps Inflow=3.02 cfs 0.299 af
D=36.0" n=0.011 L=70.0' S=0.0143 '/' Capacity=94.21 cfs Outflow=3.01 cfs 0.299 af

Reach 69R: Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.040 L=1,785.0' S=0.0258 '/' Capacity=891.70 cfs Outflow=0.00 cfs 0.000 af

Reach 70R: Peak Depth=0.14' Max Vel=2.9 fps Inflow=2.63 cfs 1.512 af
n=0.035 L=173.0' S=0.0828 '/' Capacity=1,827.05 cfs Outflow=2.66 cfs 1.505 af

Reach 89R: Default Culvert Peak Depth=0.89' Max Vel=10.3 fps Inflow=17.90 cfs 2.086 af
D=36.0" n=0.011 L=70.0' S=0.0143 '/' Capacity=94.21 cfs Outflow=17.89 cfs 2.086 af

Reach 174R: Peak Depth=0.42' Max Vel=4.6 fps Inflow=4.48 cfs 0.438 af
n=0.030 L=409.0' S=0.0440 '/' Capacity=118.32 cfs Outflow=4.42 cfs 0.437 af

Reach 175R: Peak Depth=0.49' Max Vel=3.3 fps Inflow=17.89 cfs 2.086 af
n=0.040 L=641.0' S=0.0328 '/' Capacity=1,005.40 cfs Outflow=17.66 cfs 2.076 af

Reach 176R: Peak Depth=0.37' Max Vel=3.1 fps Inflow=3.09 cfs 0.271 af
n=0.035 L=250.0' S=0.0340 '/' Capacity=122.09 cfs Outflow=3.01 cfs 0.271 af

Reach 177R: Peak Depth=0.37' Max Vel=1.8 fps Inflow=5.93 cfs 2.607 af
n=0.040 L=90.0' S=0.0144 '/' Capacity=667.59 cfs Outflow=5.79 cfs 2.598 af

Reach 178R: Peak Depth=0.23' Max Vel=3.2 fps Inflow=1.42 cfs 1.105 af
n=0.030 L=285.0' S=0.0418 '/' Capacity=115.35 cfs Outflow=1.40 cfs 1.100 af

Reach 179R: Peak Depth=0.22' Max Vel=1.6 fps Inflow=2.98 cfs 1.642 af
n=0.040 L=161.0' S=0.0188 '/' Capacity=760.76 cfs Outflow=2.90 cfs 1.634 af

Reach 180R: Peak Depth=0.17' Max Vel=1.2 fps Inflow=1.57 cfs 0.572 af
n=0.040 L=141.0' S=0.0135 '/' Capacity=644.80 cfs Outflow=1.57 cfs 0.571 af

Reach 181R: Peak Depth=0.53' Max Vel=1.7 fps Inflow=10.28 cfs 5.055 af
n=0.040 L=180.0' S=0.0083 '/' Capacity=507.07 cfs Outflow=10.29 cfs 5.027 af

Reach 182R: Peak Depth=0.36' Max Vel=1.8 fps Inflow=5.92 cfs 2.869 af
n=0.040 L=70.0' S=0.0143 '/' Capacity=663.91 cfs Outflow=5.96 cfs 2.862 af

Reach 183R: Peak Depth=0.44' Max Vel=1.6 fps Inflow=7.53 cfs 3.433 af
n=0.040 L=110.0' S=0.0091 '/' Capacity=529.62 cfs Outflow=7.47 cfs 3.421 af

Reach 184R: Peak Depth=0.20' Max Vel=2.5 fps Inflow=3.94 cfs 0.409 af
n=0.040 L=164.0' S=0.0518 '/' Capacity=1,264.58 cfs Outflow=3.91 cfs 0.408 af

Reach 189R: Peak Depth=0.72' Max Vel=1.2 fps Inflow=11.75 cfs 5.791 af
n=0.040 L=162.0' S=0.0031 '/' Capacity=308.59 cfs Outflow=11.75 cfs 5.721 af

Reach 190R: Peak Depth=0.73' Max Vel=1.2 fps Inflow=11.98 cfs 6.545 af
n=0.040 L=162.0' S=0.0031 '/' Capacity=308.59 cfs Outflow=11.98 cfs 6.473 af

Reach 191R: Peak Depth=0.20' Max Vel=1.1 fps Inflow=1.78 cfs 1.346 af
n=0.040 L=316.0' S=0.0093 '/' Capacity=536.69 cfs Outflow=1.70 cfs 1.323 af

Reach 192R: Peak Depth=0.45' Max Vel=3.1 fps Inflow=14.51 cfs 3.036 af
n=0.040 L=70.0' S=0.0326 '/' Capacity=1,002.48 cfs Outflow=14.53 cfs 3.034 af

Reach 194R: Peak Depth=0.44' Max Vel=2.8 fps Inflow=13.17 cfs 4.690 af
n=0.035 L=1,027.0' S=0.0214 '/' Capacity=929.13 cfs Outflow=13.08 cfs 4.473 af

Reach 217R: Peak Depth=0.47' Max Vel=3.2 fps Inflow=3.69 cfs 0.420 af
n=0.030 L=832.0' S=0.0192 '/' Capacity=78.22 cfs Outflow=3.59 cfs 0.417 af

Reach 251R: Peak Depth=0.30' Max Vel=1.8 fps Inflow=4.85 cfs 0.558 af
n=0.040 L=294.0' S=0.0177 '/' Capacity=738.73 cfs Outflow=4.80 cfs 0.556 af

Reach 254R: Peak Depth=0.47' Max Vel=2.6 fps Inflow=3.01 cfs 0.299 af
n=0.030 L=378.0' S=0.0124 '/' Capacity=62.69 cfs Outflow=2.95 cfs 0.298 af

Reach 483R: Peak Depth=0.13' Max Vel=2.6 fps Inflow=2.56 cfs 2.053 af
n=0.030 L=100.0' S=0.0480 '/' Capacity=1,622.63 cfs Outflow=2.54 cfs 2.048 af

Reach 485R: Peak Depth=1.06' Max Vel=3.0 fps Inflow=51.60 cfs 8.161 af
n=0.040 L=251.0' S=0.0120 '/' Capacity=607.27 cfs Outflow=52.32 cfs 8.132 af

Reach 486R: Peak Depth=0.26' Max Vel=1.9 fps Inflow=4.42 cfs 0.437 af
n=0.035 L=186.0' S=0.0172 '/' Capacity=832.66 cfs Outflow=4.36 cfs 0.436 af

Reach 487R: Peak Depth=1.16' Max Vel=2.6 fps Inflow=76.28 cfs 8.564 af
n=0.030 L=616.0' S=0.0043 '/' Capacity=485.77 cfs Outflow=52.47 cfs 8.480 af

Reach 489R: Peak Depth=0.26' Max Vel=1.7 fps Inflow=4.07 cfs 0.622 af
n=0.040 L=504.0' S=0.0183 '/' Capacity=750.48 cfs Outflow=3.70 cfs 0.618 af

Reach 491R: Peak Depth=0.20' Max Vel=2.2 fps Inflow=3.59 cfs 0.417 af
n=0.040 L=155.0' S=0.0419 '/' Capacity=1,137.50 cfs Outflow=3.57 cfs 0.416 af

Reach 494R: Peak Depth=0.86' Max Vel=7.0 fps Inflow=19.42 cfs 2.287 af
n=0.030 L=100.0' S=0.0480 '/' Capacity=123.57 cfs Outflow=19.39 cfs 2.287 af

Reach 495R: Peak Depth=0.90' Max Vel=1.0 fps Inflow=13.26 cfs 4.923 af
n=0.100 L=375.0' S=0.0093 '/' Capacity=214.65 cfs Outflow=13.17 cfs 4.690 af

Reach CR37: CUL-033 Peak Depth=1.25' Max Vel=2.1 fps Inflow=21.81 cfs 2.145 af
D=15.0" n=0.024 L=30.0' S=0.0057 '/' Capacity=2.63 cfs Outflow=2.63 cfs 1.512 af

Reach CR61: CUL-055 Peak Depth=1.25' Max Vel=2.3 fps Inflow=33.16 cfs 3.854 af
D=15.0" n=0.025 L=95.0' S=0.0053 '/' Capacity=2.44 cfs Outflow=2.56 cfs 2.053 af

Reach CR62: CUL-056 Peak Depth=0.51' Max Vel=5.3 fps Inflow=2.54 cfs 2.048 af
D=15.0" n=0.010 L=45.0' S=0.0073 '/' Capacity=7.19 cfs Outflow=2.53 cfs 2.047 af

Reach CR63: CUL-057 Peak Depth=1.25' Max Vel=5.2 fps Inflow=12.11 cfs 2.602 af
D=15.0" n=0.010 L=45.0' S=0.0044 '/' Capacity=5.60 cfs Outflow=5.93 cfs 2.607 af

Reach CR64: CUL-058 Peak Depth=1.00' Max Vel=2.3 fps Inflow=5.79 cfs 0.572 af
D=12.0" n=0.024 L=50.0' S=0.0066 '/' Capacity=1.57 cfs Outflow=1.57 cfs 0.572 af

Reach CR65: CUL-059 Peak Depth=1.25' Max Vel=2.6 fps Inflow=6.79 cfs 1.643 af
D=15.0" n=0.024 L=45.0' S=0.0064 '/' Capacity=2.81 cfs Outflow=2.98 cfs 1.642 af

Reach CR66: CUL-060 Peak Depth=1.00' Max Vel=2.0 fps Inflow=12.66 cfs 1.753 af
D=12.0" n=0.024 L=65.0' S=0.0052 '/' Capacity=1.40 cfs Outflow=1.42 cfs 1.105 af

Reach CR71: CUL-065 Peak Depth=1.00' Max Vel=6.3 fps Inflow=5.37 cfs 0.622 af
D=12.0" n=0.024 L=35.0' S=0.0500 '/' Capacity=4.32 cfs Outflow=4.35 cfs 0.622 af

Reach CR72: CUL-066 Peak Depth=1.00' Max Vel=5.3 fps Inflow=4.35 cfs 0.622 af
D=12.0" n=0.024 L=80.0' S=0.0363 '/' Capacity=3.67 cfs Outflow=4.07 cfs 0.622 af

Reach CR77: CUL-071 Peak Depth=1.00' Max Vel=2.4 fps Inflow=16.22 cfs 1.895 af
D=12.0" n=0.024 L=20.0' S=0.0075 '/' Capacity=1.67 cfs Outflow=1.78 cfs 1.346 af

Reach CR79: CUL-073 Peak Depth=1.50' Max Vel=9.3 fps Inflow=25.37 cfs 3.036 af
D=18.0" n=0.013 L=55.0' S=0.0191 '/' Capacity=14.51 cfs Outflow=14.51 cfs 3.036 af

Reach FID 137: Default Culvert Peak Depth=0.56' Max Vel=7.5 fps Inflow=3.95 cfs 0.409 af
D=15.0" n=0.013 L=45.0' S=0.0222 '/' Capacity=9.63 cfs Outflow=3.94 cfs 0.409 af

Pond 1P: CB-071 Peak Elev=59.40' Inflow=3.59 cfs 0.417 af
12.0" x 50.0' Culvert Outflow=3.59 cfs 0.417 af

Pond 13P: Wetland Detention 13(Cul. ID 34) Peak Elev=130.17' Storage=0.930 af Inflow=54.91 cfs 8.568 af
24.0" x 70.0' Culvert Outflow=76.28 cfs 8.564 af

Pond 14P: Wetland Detention 14(Cul. ID 6 Peak Elev=53.74' Storage=10.433 af Inflow=66.59 cfs 16.202 af
52.0" x 50.0' Culvert Outflow=11.75 cfs 5.791 af

Pond 15P: Wetland Detention 15(Cul. ID 72) Peak Elev=36.43' Storage=3.478 af Inflow=35.57 cfs 8.378 af
48.0" x 80.0' Culvert Outflow=13.26 cfs 4.923 af

Pond 16P: Wetland Detention 16(Cul. ID 112) Peak Elev=7.37' Storage=0.554 af Inflow=18.59 cfs 2.580 af
50.0" x 55.0' Culvert Outflow=14.47 cfs 2.034 af

Pond 192P: (new Pond) No Outlet Inflow=2.29 cfs 0.266 af
Primary=2.29 cfs 0.266 af

Pond 194P: CB-070 Peak Elev=65.40' Inflow=3.59 cfs 0.417 af
12.0" x 80.0' Culvert Outflow=3.59 cfs 0.417 af

Pond ID10: Pond/Wet Area Peak Elev=117.55' Storage=24.522 af Inflow=195.01 cfs 24.536 af
Outflow=0.00 cfs 0.000 af

Pond ID13: Pond/Wet Area Peak Elev=72.84' Storage=2.880 af Inflow=72.39 cfs 10.939 af
Outflow=127.76 cfs 8.153 af

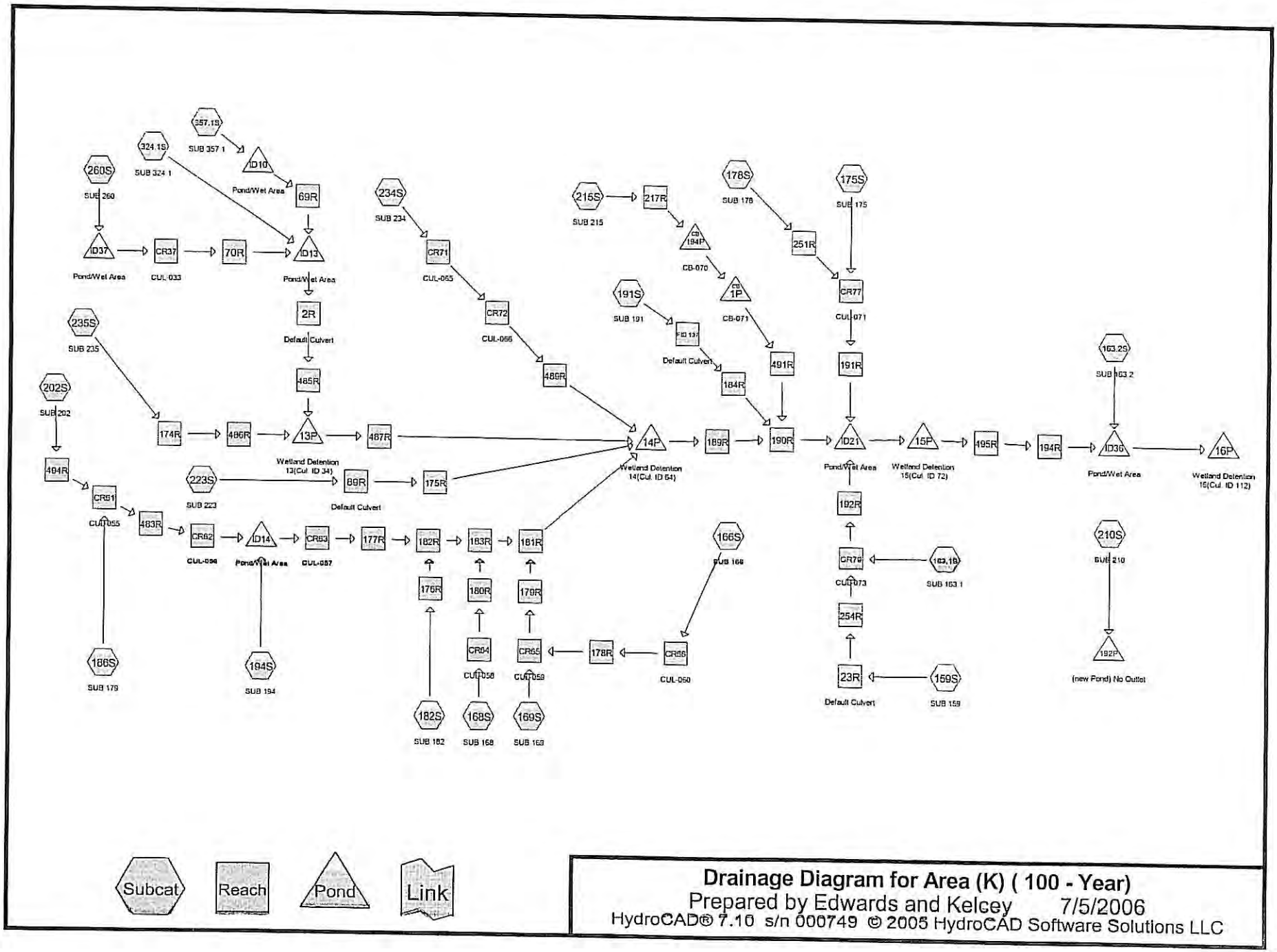
Pond ID14: Pond/Wet Area Peak Elev=62.58' Storage=3.195 af Inflow=35.51 cfs 5.803 af
Outflow=12.11 cfs 2.602 af

Pond ID21: Pond/Wet Area Peak Elev=36.21' Storage=2.430 af Inflow=23.16 cfs 10.831 af
Outflow=35.57 cfs 8.378 af

Pond ID36: Pond/Wet Area Peak Elev=8.78' Storage=8.190 af Inflow=42.68 cfs 10.778 af
Outflow=18.59 cfs 2.580 af

Pond ID37: Pond/Wet Area Peak Elev=90.89' Storage=3.105 af Inflow=41.35 cfs 5.238 af
Outflow=21.81 cfs 2.145 af

Total Runoff Area = 239.340 ac Runoff Volume = 65.438 af Average Runoff Depth = 3.28"



Drainage Diagram for Area (K) (100 - Year)

Prepared by Edwards and Kelcey 7/5/2006

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 159S: SUB 159
Runoff Area=0.930 ac Runoff Depth>4.58"
Flow Length=256' Tc=19.4 min CN=85 Runoff=3.55 cfs 0.355 af

Subcatchment 163.1S: SUB 163.1
Runoff Area=9.540 ac Runoff Depth>4.13"
Flow Length=524' Tc=31.9 min CN=81 Runoff=27.05 cfs 3.287 af

Subcatchment 163.2S: SUB 163.2
Runoff Area=22.740 ac Runoff Depth>4.01"
Flow Length=2,060' Tc=48.3 min CN=80 Runoff=51.14 cfs 7.596 af

Subcatchment 166S: SUB 166
Runoff Area=6.310 ac Runoff Depth>4.02"
Flow Length=659' Tc=42.7 min CN=80 Runoff=15.16 cfs 2.112 af

Subcatchment 168S: SUB 168
Runoff Area=2.170 ac Runoff Depth>3.84"
Flow Length=390' Tc=20.2 min CN=78 Runoff=6.99 cfs 0.694 af

Subcatchment 169S: SUB 169
Runoff Area=2.060 ac Runoff Depth>3.84"
Flow Length=307' Tc=21.2 min CN=78 Runoff=6.51 cfs 0.658 af

Subcatchment 175S: SUB 175
Runoff Area=4.530 ac Runoff Depth>4.24"
Flow Length=650' Tc=28.6 min CN=82 Runoff=13.78 cfs 1.602 af

Subcatchment 178S: SUB 178
Runoff Area=2.000 ac Runoff Depth>4.03"
Flow Length=490' Tc=28.8 min CN=80 Runoff=5.81 cfs 0.672 af

Subcatchment 182S: SUB 182
Runoff Area=0.820 ac Runoff Depth>4.69"
Flow Length=150' Tc=13.8 min CN=86 Runoff=3.62 cfs 0.321 af

Subcatchment 186S: SUB 179
Runoff Area=5.780 ac Runoff Depth>3.93"
Flow Length=231' Tc=28.0 min CN=79 Runoff=16.59 cfs 1.893 af

Subcatchment 191S: SUB 191
Runoff Area=1.380 ac Runoff Depth>4.25"
Flow Length=210' Tc=22.2 min CN=82 Runoff=4.69 cfs 0.489 af

Subcatchment 194S: SUB 194
Runoff Area=13.070 ac Runoff Depth>4.14"
Flow Length=723' Tc=27.7 min CN=81 Runoff=39.47 cfs 4.509 af

Subcatchment 202S: SUB 202
Runoff Area=7.530 ac Runoff Depth>4.35"
Flow Length=841' Tc=29.7 min CN=83 Runoff=23.01 cfs 2.730 af

Subcatchment 210S: SUB 210
Runoff Area=0.900 ac Runoff Depth>4.24"
Flow Length=216' Tc=29.0 min CN=82 Runoff=2.72 cfs 0.318 af

Subcatchment 215S: SUB 215
Runoff Area=1.380 ac Runoff Depth>4.35"
Flow Length=274' Tc=27.4 min CN=83 Runoff=4.37 cfs 0.501 af

Subcatchment 223S: SUB 223 Runoff Area=7.700 ac Runoff Depth>3.93"
Flow Length=593' Tc=29.8 min CN=79 Runoff=21.52 cfs 2.521 af

Subcatchment 234S: SUB 234 Runoff Area=2.230 ac Runoff Depth>4.03"
Flow Length=400' Tc=29.3 min CN=80 Runoff=6.43 cfs 0.750 af

Subcatchment 235S: SUB 235 Runoff Area=1.610 ac Runoff Depth>3.94"
Flow Length=415' Tc=19.6 min CN=79 Runoff=5.39 cfs 0.529 af

Subcatchment 260S: SUB 260 Runoff Area=19.960 ac Runoff Depth>3.82"
Flow Length=677' Tc=35.9 min CN=78 Runoff=49.90 cfs 6.350 af

Subcatchment 324.1S: SUB 324.1 Runoff Area=35.980 ac Runoff Depth>3.81"
Flow Length=2,915' Tc=38.1 min CN=78 Runoff=87.38 cfs 11.438 af

Subcatchment 357.1S: SUB 357.1 Runoff Area=90.720 ac Runoff Depth>3.92"
Flow Length=1,897' Tc=35.2 min CN=79 Runoff=234.45 cfs 29.648 af

Reach 2R: Default Culvert Peak Depth=3.00' Max Vel=8.0 fps Inflow=103.95 cfs 11.278 af
D=36.0" n=0.011 L=70.0' S=0.0043 '/' Capacity=51.60 cfs Outflow=51.60 cfs 11.285 af

Reach 23R: Default Culvert Peak Depth=0.40' Max Vel=6.4 fps Inflow=3.55 cfs 0.355 af
D=36.0" n=0.011 L=70.0' S=0.0143 '/' Capacity=94.21 cfs Outflow=3.54 cfs 0.355 af

Reach 69R: Peak Depth=0.37' Max Vel=2.5 fps Inflow=10.56 cfs 1.394 af
n=0.040 L=1,785.0' S=0.0258 '/' Capacity=891.70 cfs Outflow=8.73 cfs 1.133 af

Reach 70R: Peak Depth=0.13' Max Vel=2.8 fps Inflow=2.63 cfs 1.585 af
n=0.035 L=173.0' S=0.0828 '/' Capacity=1,827.05 cfs Outflow=2.63 cfs 1.578 af

Reach 89R: Default Culvert Peak Depth=0.97' Max Vel=10.8 fps Inflow=21.52 cfs 2.521 af
D=36.0" n=0.011 L=70.0' S=0.0143 '/' Capacity=94.21 cfs Outflow=21.51 cfs 2.520 af

Reach 174R: Peak Depth=0.46' Max Vel=4.8 fps Inflow=5.39 cfs 0.529 af
n=0.030 L=409.0' S=0.0440 '/' Capacity=118.32 cfs Outflow=5.32 cfs 0.528 af

Reach 175R: Peak Depth=0.54' Max Vel=3.4 fps Inflow=21.51 cfs 2.520 af
n=0.040 L=641.0' S=0.0328 '/' Capacity=1,005.40 cfs Outflow=21.27 cfs 2.510 af

Reach 176R: Peak Depth=0.41' Max Vel=3.3 fps Inflow=3.62 cfs 0.321 af
n=0.035 L=250.0' S=0.0340 '/' Capacity=122.09 cfs Outflow=3.53 cfs 0.320 af

Reach 177R: Peak Depth=0.37' Max Vel=1.8 fps Inflow=5.60 cfs 3.376 af
n=0.040 L=90.0' S=0.0144 '/' Capacity=667.59 cfs Outflow=5.61 cfs 3.363 af

Reach 178R: Peak Depth=0.23' Max Vel=3.2 fps Inflow=1.48 cfs 1.155 af
n=0.030 L=285.0' S=0.0418 '/' Capacity=115.35 cfs Outflow=1.45 cfs 1.149 af

Reach 179R: Peak Depth=0.22' Max Vel=1.6 fps Inflow=3.01 cfs 1.806 af
n=0.040 L=161.0' S=0.0188 '/' Capacity=760.76 cfs Outflow=2.84 cfs 1.798 af

Reach 180R: Peak Depth=0.17' Max Vel=1.2 fps Inflow=1.57 cfs 0.694 af
n=0.040 L=141.0' S=0.0135 '/' Capacity=644.80 cfs Outflow=1.57 cfs 0.692 af

Reach 181R: Peak Depth=0.54' Max Vel=1.7 fps Inflow=10.57 cfs 6.145 af
n=0.040 L=180.0' S=0.0083 '/' Capacity=507.07 cfs Outflow=10.57 cfs 6.108 af

Reach 182R: Peak Depth=0.36' Max Vel=1.8 fps Inflow=6.19 cfs 3.684 af
n=0.040 L=70.0' S=0.0143 '/' Capacity=663.91 cfs Outflow=6.28 cfs 3.674 af

Reach 183R: Peak Depth=0.45' Max Vel=1.6 fps Inflow=7.85 cfs 4.366 af
n=0.040 L=110.0' S=0.0091 '/' Capacity=529.62 cfs Outflow=7.76 cfs 4.347 af

Reach 184R: Peak Depth=0.22' Max Vel=2.6 fps Inflow=4.69 cfs 0.489 af
n=0.040 L=164.0' S=0.0518 '/' Capacity=1,264.58 cfs Outflow=4.64 cfs 0.488 af

Reach 189R: Peak Depth=0.80' Max Vel=1.3 fps Inflow=14.87 cfs 7.224 af
n=0.040 L=162.0' S=0.0031 '/' Capacity=308.59 cfs Outflow=14.84 cfs 7.140 af

Reach 190R: Peak Depth=0.81' Max Vel=1.3 fps Inflow=15.08 cfs 8.125 af
n=0.040 L=162.0' S=0.0031 '/' Capacity=308.59 cfs Outflow=15.05 cfs 8.040 af

Reach 191R: Peak Depth=0.20' Max Vel=1.1 fps Inflow=1.73 cfs 1.404 af
n=0.040 L=316.0' S=0.0093 '/' Capacity=536.69 cfs Outflow=1.68 cfs 1.381 af

Reach 192R: Peak Depth=0.45' Max Vel=3.1 fps Inflow=14.51 cfs 3.641 af
n=0.040 L=70.0' S=0.0326 '/' Capacity=1,002.48 cfs Outflow=14.52 cfs 3.639 af

Reach 194R: Peak Depth=0.49' Max Vel=3.0 fps Inflow=16.00 cfs 6.304 af
n=0.035 L=1,027.0' S=0.0214 '/' Capacity=929.13 cfs Outflow=15.90 cfs 6.053 af

Reach 217R: Peak Depth=0.51' Max Vel=3.3 fps Inflow=4.37 cfs 0.501 af
n=0.030 L=832.0' S=0.0192 '/' Capacity=78.22 cfs Outflow=4.26 cfs 0.498 af

Reach 251R: Peak Depth=0.33' Max Vel=1.9 fps Inflow=5.81 cfs 0.672 af
n=0.040 L=294.0' S=0.0177 '/' Capacity=738.73 cfs Outflow=5.76 cfs 0.670 af

Reach 254R: Peak Depth=0.51' Max Vel=2.7 fps Inflow=3.54 cfs 0.355 af
n=0.030 L=378.0' S=0.0124 '/' Capacity=62.69 cfs Outflow=3.47 cfs 0.354 af

Reach 483R: Peak Depth=0.14' Max Vel=2.6 fps Inflow=2.60 cfs 2.145 af
n=0.030 L=100.0' S=0.0480 '/' Capacity=1,622.63 cfs Outflow=2.58 cfs 2.141 af

Reach 485R: Peak Depth=1.07' Max Vel=3.0 fps Inflow=51.60 cfs 11.285 af
n=0.040 L=251.0' S=0.0120 '/' Capacity=607.27 cfs Outflow=52.58 cfs 11.223 af

Reach 486R: Peak Depth=0.29' Max Vel=2.0 fps Inflow=5.32 cfs 0.528 af
n=0.035 L=186.0' S=0.0172 '/' Capacity=832.66 cfs Outflow=5.25 cfs 0.526 af

Reach 487R: Peak Depth=1.17' Max Vel=2.6 fps Inflow=81.33 cfs 11.414 af
n=0.030 L=616.0' S=0.0043 '/' Capacity=485.77 cfs Outflow=52.91 cfs 11.248 af

Reach 489R: Peak Depth=0.25' Max Vel=1.7 fps Inflow=3.67 cfs 0.749 af
n=0.040 L=504.0' S=0.0183 '/' Capacity=750.48 cfs Outflow=3.67 cfs 0.745 af

Reach 491R: Peak Depth=0.22' Max Vel=2.4 fps Inflow=4.26 cfs 0.498 af
n=0.040 L=155.0' S=0.0419 '/' Capacity=1,137.50 cfs Outflow=4.24 cfs 0.497 af

Reach 494R: Peak Depth=0.93' Max Vel=7.3 fps Inflow=23.01 cfs 2.730 af
n=0.030 L=100.0' S=0.0480 '/' Capacity=123.57 cfs Outflow=22.98 cfs 2.729 af

Reach 495R: Peak Depth=0.99' Max Vel=1.0 fps Inflow=16.11 cfs 6.573 af
n=0.100 L=375.0' S=0.0093 '/' Capacity=214.65 cfs Outflow=16.00 cfs 6.304 af

Reach CR37: CUL-033 Peak Depth=1.25' Max Vel=2.3 fps Inflow=69.67 cfs 3.318 af
D=15.0" n=0.024 L=30.0' S=0.0057 '/' Capacity=2.63 cfs Outflow=2.63 cfs 1.585 af

Reach CR61: CUL-055 Peak Depth=1.25' Max Vel=2.3 fps Inflow=39.53 cfs 4.622 af
D=15.0" n=0.025 L=95.0' S=0.0053 '/' Capacity=2.44 cfs Outflow=2.60 cfs 2.145 af

Reach CR62: CUL-056 Peak Depth=0.52' Max Vel=5.4 fps Inflow=2.58 cfs 2.141 af
D=15.0" n=0.010 L=45.0' S=0.0073 '/' Capacity=7.19 cfs Outflow=2.57 cfs 2.140 af

Reach CR63: CUL-057 Peak Depth=1.25' Max Vel=4.6 fps Inflow=26.46 cfs 3.451 af
D=15.0" n=0.010 L=45.0' S=0.0044 '/' Capacity=5.60 cfs Outflow=5.60 cfs 3.376 af

Reach CR64: CUL-058 Peak Depth=1.00' Max Vel=2.3 fps Inflow=6.99 cfs 0.694 af
D=12.0" n=0.024 L=50.0' S=0.0066 '/' Capacity=1.57 cfs Outflow=1.57 cfs 0.694 af

Reach CR65: CUL-059 Peak Depth=1.25' Max Vel=2.6 fps Inflow=7.90 cfs 1.808 af
D=15.0" n=0.024 L=45.0' S=0.0064 '/' Capacity=2.81 cfs Outflow=3.01 cfs 1.806 af

Reach CR66: CUL-060 Peak Depth=1.00' Max Vel=2.0 fps Inflow=15.16 cfs 2.112 af
D=12.0" n=0.024 L=65.0' S=0.0052 '/' Capacity=1.40 cfs Outflow=1.48 cfs 1.155 af

Reach CR71: CUL-065 Peak Depth=1.00' Max Vel=6.2 fps Inflow=6.43 cfs 0.750 af
D=12.0" n=0.024 L=35.0' S=0.0500 '/' Capacity=4.32 cfs Outflow=4.51 cfs 0.749 af

Reach CR72: CUL-066 Peak Depth=1.00' Max Vel=5.3 fps Inflow=4.51 cfs 0.749 af
D=12.0" n=0.024 L=80.0' S=0.0363 '/' Capacity=3.67 cfs Outflow=3.67 cfs 0.749 af

Reach CR77: CUL-071 Peak Depth=1.00' Max Vel=2.4 fps Inflow=19.34 cfs 2.272 af
D=12.0" n=0.024 L=20.0' S=0.0075 '/' Capacity=1.67 cfs Outflow=1.73 cfs 1.404 af

Reach CR79: CUL-073 Peak Depth=1.50' Max Vel=9.3 fps Inflow=30.21 cfs 3.641 af
D=18.0" n=0.013 L=55.0' S=0.0191 '/' Capacity=14.51 cfs Outflow=14.51 cfs 3.641 af

Reach FID 137: Default Culvert Peak Depth=0.62' Max Vel=7.8 fps Inflow=4.69 cfs 0.489 af
D=15.0" n=0.013 L=45.0' S=0.0222 '/' Capacity=9.63 cfs Outflow=4.69 cfs 0.489 af

Pond 1P: CB-071 Peak Elev=59.77' Inflow=4.26 cfs 0.498 af
12.0" x 50.0' Culvert Outflow=4.26 cfs 0.498 af

Pond 13P: Wetland Detention 13(Cul. ID 3 Peak Elev=139.97' Storage=0.930 af Inflow=56.91 cfs 11.749 af
24.0" x 70.0' Culvert Outflow=81.33 cfs 11.414 af

Pond 14P: Wetland Detention 14(Cul. ID 6 Peak Elev=53.91' Storage=13.371 af Inflow=76.69 cfs 20.610 af
52.0" x 50.0' Culvert Outflow=14.87 cfs 7.224 af

Pond 15P: Wetland Detention 15(Cul. ID 72) Peak Elev=36.58' Storage=4.069 af Inflow=48.29 cfs 10.613 af
48.0" x 80.0' Culvert Outflow=16.11 cfs 6.573 af

Pond 16P: Wetland Detention 16(Cul. ID 112) Peak Elev=7.56' Storage=0.662 af Inflow=28.55 cfs 5.437 af
50.0" x 55.0' Culvert Outflow=17.65 cfs 4.797 af

Pond 192P: (new Pond) No Outlet Inflow=2.72 cfs 0.318 af
Primary=2.72 cfs 0.318 af

Pond 194P: CB-070 Peak Elev=65.77' Inflow=4.26 cfs 0.498 af
12.0" x 80.0' Culvert Outflow=4.26 cfs 0.498 af

Pond ID10: Pond/Wet Area Peak Elev=118.54' Storage=28.255 af Inflow=234.45 cfs 29.648 af
Outflow=10.56 cfs 1.394 af

Pond ID13: Pond/Wet Area Peak Elev=72.48' Storage=2.880 af Inflow=87.38 cfs 14.149 af
Outflow=103.95 cfs 11.278 af

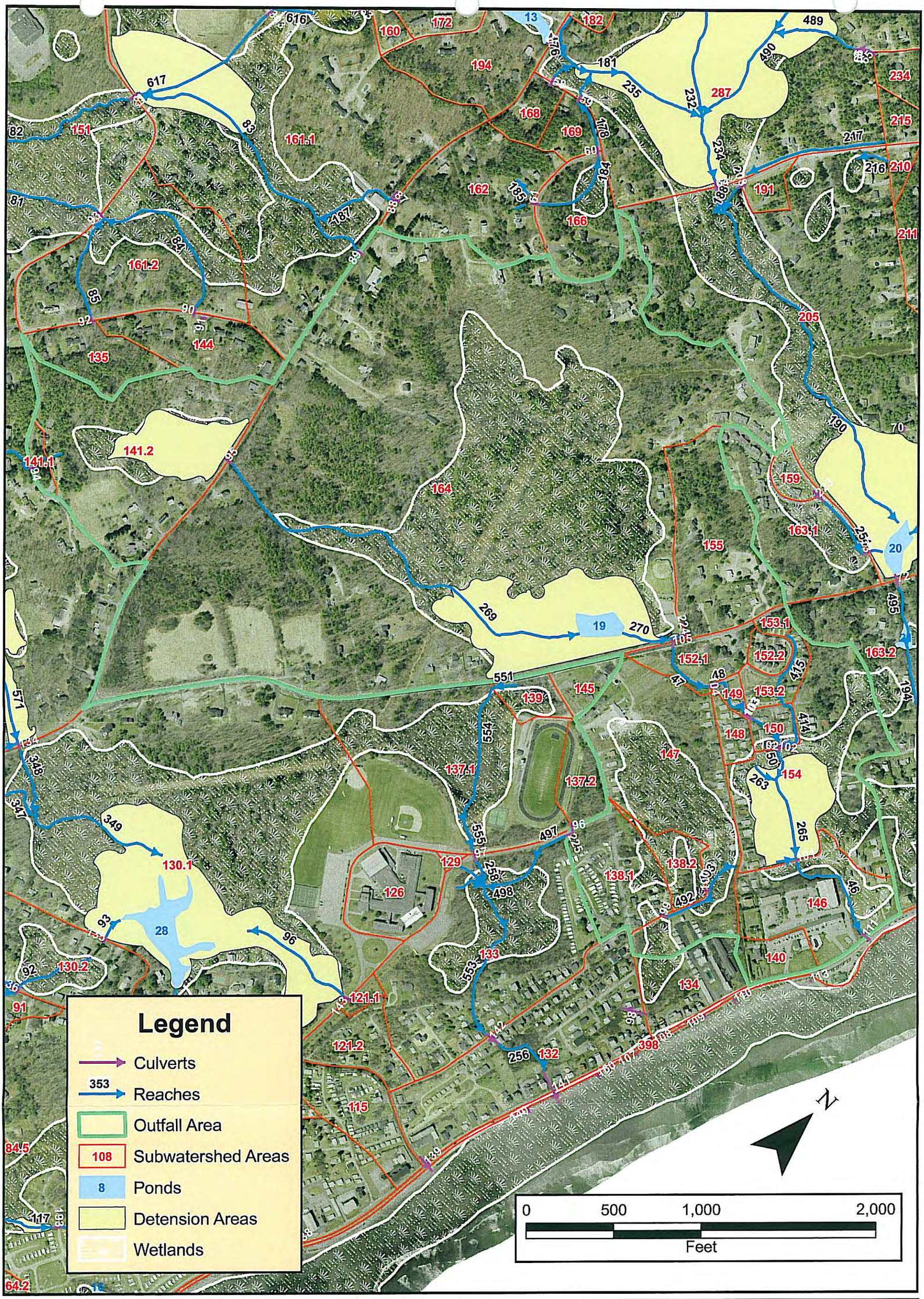
Pond ID14: Pond/Wet Area Peak Elev=63.03' Storage=3.195 af Inflow=41.91 cfs 6.650 af
Outflow=26.46 cfs 3.451 af

Pond ID21: Pond/Wet Area Peak Elev=36.49' Storage=2.430 af Inflow=26.10 cfs 13.060 af
Outflow=48.29 cfs 10.613 af

Pond ID36: Pond/Wet Area Peak Elev=9.04' Storage=8.190 af Inflow=51.14 cfs 13.650 af
Outflow=28.55 cfs 5.437 af

Pond ID37: Pond/Wet Area Peak Elev=91.91' Storage=3.105 af Inflow=49.90 cfs 6.350 af
Outflow=69.67 cfs 3.318 af

Total Runoff Area = 239.340 ac Runoff Volume = 78.973 af Average Runoff Depth = 3.96"



DRAWN BY: CJK	DATE: MAY 31, 2006
CHECKED BY: SJB	PROJECT: 060057018

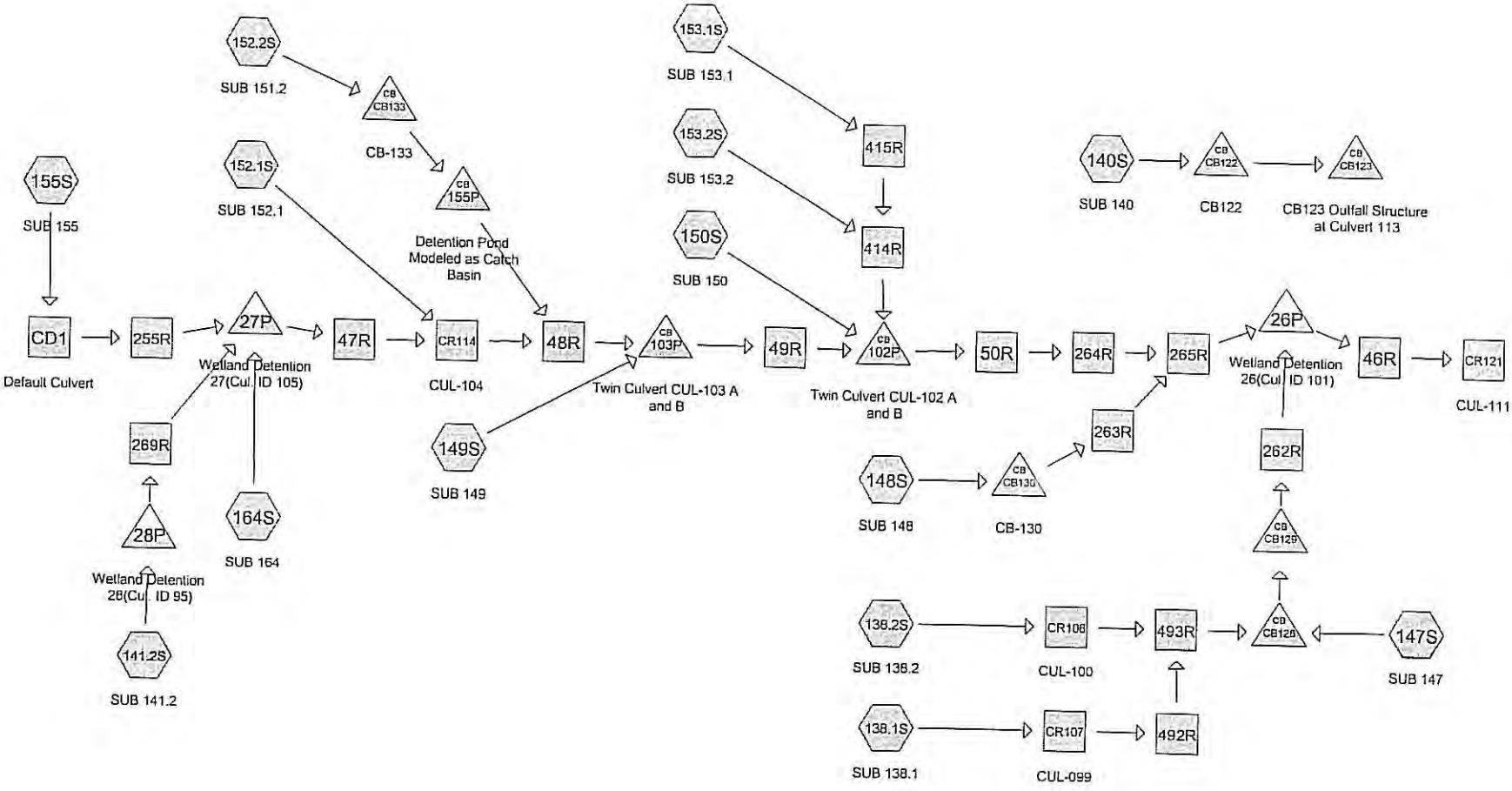
OUTFALL "L"

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Drainage Diagram for Area (L) (25 - Year)

Prepared by Edwards and Kelcey 7/5/2006

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 138.1S: SUB 138.1 Runoff Area=6.340 ac Runoff Depth>3.50"
Flow Length=1,009' Tc=28.9 min CN=85 Runoff=15.79 cfs 1.847 af

Subcatchment 138.2S: SUB 138.2 Runoff Area=2.380 ac Runoff Depth>2.99"
Flow Length=568' Tc=46.5 min CN=80 Runoff=4.12 cfs 0.594 af

Subcatchment 140S: SUB 140 Runoff Area=2.360 ac Runoff Depth>3.81"
Flow Length=270' Tc=20.3 min CN=88 Runoff=7.33 cfs 0.749 af

Subcatchment 141.2S: SUB 141.2 Runoff Area=22.150 ac Runoff Depth>2.82"
Flow Length=1,352' Tc=34.3 min CN=78 Runoff=42.06 cfs 5.211 af

Subcatchment 147S: SUB 147 Runoff Area=18.930 ac Runoff Depth>3.09"
Flow Length=1,338' Tc=44.2 min CN=81 Runoff=34.62 cfs 4.876 af

Subcatchment 148S: SUB 148 Runoff Area=1.400 ac Runoff Depth>3.91"
Flow Length=539' Tc=23.0 min CN=89 Runoff=4.21 cfs 0.456 af

Subcatchment 149S: SUB 149 Runoff Area=0.650 ac Runoff Depth>3.81"
Flow Length=265' Tc=18.1 min CN=88 Runoff=2.11 cfs 0.206 af

Subcatchment 150S: SUB 150 Runoff Area=1.510 ac Runoff Depth>3.82"
Flow Length=230' Tc=12.6 min CN=88 Runoff=5.62 cfs 0.480 af

Subcatchment 152.1S: SUB 152.1 Runoff Area=3.560 ac Runoff Depth>3.31"
Flow Length=204' Tc=19.0 min CN=83 Runoff=10.10 cfs 0.982 af

Subcatchment 152.2S: SUB 151.2 Runoff Area=1.160 ac Runoff Depth>3.81"
Flow Length=231' Tc=16.6 min CN=88 Runoff=3.90 cfs 0.369 af

Subcatchment 153.1S: SUB 153.1 Runoff Area=0.650 ac Runoff Depth>3.59"
Flow Length=200' Tc=37.2 min CN=86 Runoff=1.47 cfs 0.194 af

Subcatchment 153.2S: SUB 153.2 Runoff Area=2.060 ac Runoff Depth>3.82"
Flow Length=360' Tc=11.3 min CN=88 Runoff=7.95 cfs 0.655 af

Subcatchment 155S: SUB 155 Runoff Area=11.650 ac Runoff Depth>3.09"
Flow Length=753' Tc=41.9 min CN=81 Runoff=21.90 cfs 3.003 af

Subcatchment 164S: SUB 164 Runoff Area=143.650 ac Runoff Depth>2.72"
Flow Length=2,698' Tc=51.8 min CN=77 Runoff=213.68 cfs 32.507 af

Reach 46R: Peak Depth=1.37' Max Vel=0.8 fps Inflow=11.78 cfs 7.510 af
n=0.080 L=649.0' S=0.0018 '/' Capacity=91.49 cfs Outflow=11.78 cfs 7.078 af

Reach 47R: Peak Depth=1.17' Max Vel=1.9 fps Inflow=28.76 cfs 16.795 af
n=0.080 L=344.0' S=0.0148 '/' Capacity=231.43 cfs Outflow=28.76 cfs 16.574 af

Reach 48R: Peak Depth=0.93' Max Vel=3.2 fps Inflow=11.29 cfs 5.494 af
n=0.040 L=290.0' S=0.0148 '/' Capacity=145.83 cfs Outflow=11.22 cfs 5.461 af

Reach 49R: Peak Depth=0.71' Max Vel=5.4 fps Inflow=13.31 cfs 5.667 af
n=0.040 L=228.0' S=0.0583 '/' Capacity=289.25 cfs Outflow=13.25 cfs 5.652 af

Reach 50R: Peak Depth=1.26' Max Vel=4.6 fps Inflow=26.20 cfs 6.980 af
n=0.040 L=50.0' S=0.0226 '/' Capacity=180.04 cfs Outflow=26.14 cfs 6.975 af

Reach 255R: Peak Depth=1.59' Max Vel=1.9 fps Inflow=21.89 cfs 3.003 af
n=0.080 L=50.0' S=0.0106 '/' Capacity=153.00 cfs Outflow=21.86 cfs 3.001 af

Reach 262R: Peak Depth=1.24' Max Vel=0.8 fps Inflow=39.71 cfs 7.069 af
n=0.080 L=116.0' S=0.0017 '/' Capacity=97.65 cfs Outflow=39.54 cfs 7.041 af

Reach 263R: Peak Depth=0.36' Max Vel=0.3 fps Inflow=4.21 cfs 0.456 af
n=0.080 L=151.0' S=0.0013 '/' Capacity=85.59 cfs Outflow=3.89 cfs 0.451 af

Reach 264R: Peak Depth=1.01' Max Vel=0.6 fps Inflow=26.14 cfs 6.975 af
n=0.080 L=129.0' S=0.0016 '/' Capacity=92.60 cfs Outflow=25.36 cfs 6.885 af

Reach 265R: Peak Depth=1.01' Max Vel=0.6 fps Inflow=27.82 cfs 7.335 af
n=0.080 L=475.0' S=0.0014 '/' Capacity=86.99 cfs Outflow=23.98 cfs 6.981 af

Reach 269R: Peak Depth=0.27' Max Vel=1.4 fps Inflow=3.18 cfs 2.180 af
n=0.040 L=2,510.0' S=0.0116 '/' Capacity=46.19 cfs Outflow=3.18 cfs 1.922 af

Reach 414R: Peak Depth=0.56' Max Vel=5.7 fps Inflow=8.45 cfs 0.849 af
n=0.030 L=359.0' S=0.0518 '/' Capacity=128.38 cfs Outflow=8.22 cfs 0.848 af

Reach 415R: Peak Depth=0.09' Max Vel=2.3 fps Inflow=1.47 cfs 0.194 af
n=0.030 L=452.0' S=0.0635 '/' Capacity=1,866.25 cfs Outflow=1.46 cfs 0.194 af

Reach 492R: Peak Depth=0.64' Max Vel=2.6 fps Inflow=4.63 cfs 1.847 af
n=0.030 L=307.0' S=0.0092 '/' Capacity=54.06 cfs Outflow=4.63 cfs 1.843 af

Reach 493R: Peak Depth=0.45' Max Vel=1.1 fps Inflow=5.09 cfs 2.204 af
n=0.040 L=219.0' S=0.0041 '/' Capacity=356.09 cfs Outflow=5.09 cfs 2.193 af

Reach CD1: Default Culvert Peak Depth=1.66' Max Vel=5.5 fps Inflow=21.90 cfs 3.003 af
D=36.0" n=0.011 L=45.0' S=0.0022 '/' Capacity=37.16 cfs Outflow=21.89 cfs 3.003 af

Reach CR107: CUL-099 Peak Depth=1.00' Max Vel=6.7 fps Inflow=15.79 cfs 1.847 af
D=12.0" n=0.010 L=25.0' S=0.0100 '/' Capacity=4.63 cfs Outflow=4.63 cfs 1.847 af

Reach CR108: CUL-100 Peak Depth=0.50' Max Vel=2.7 fps Inflow=4.12 cfs 0.594 af
D=6.0" n=0.010 L=25.0' S=0.0040 '/' Capacity=0.46 cfs Outflow=0.47 cfs 0.361 af

Reach CR114: CUL-104 Peak Depth=2.00' Max Vel=2.7 fps Inflow=29.32 cfs 17.555 af
D=24.0" n=0.024 L=55.0' S=0.0036 '/' Capacity=7.39 cfs Outflow=7.39 cfs 5.126 af

Reach CR121: CUL-111 Peak Depth=2.00' Max Vel=2.4 fps Inflow=11.78 cfs 7.078 af
D=24.0" n=0.024 L=70.0' S=0.0029 '/' Capacity=6.55 cfs Outflow=6.89 cfs 4.444 af

Pond 26P: Wetland Detention 26(Cul. ID 101 Peak Elev=9.81' Storage=6.736 af Inflow=63.27 cfs 14.022 af
Outflow=11.78 cfs 7.510 af

Pond 27P: Wetland Detention 27(Cul. ID Peak Elev=37.55' Storage=23.813 af Inflow=235.71 cfs 37.430 af
30.0" x 55.0' Culvert Outflow=28.76 cfs 16.795 af

Pond 28P: Wetland Detention 28(Cul. ID 95) Peak Elev=67.97' Storage=3.400 af Inflow=42.06 cfs 5.211 af
Outflow=3.18 cfs 2.180 af

Pond 102P: Twin Culvert CUL-102 A and B Peak Elev=12.47' Inflow=26.20 cfs 6.980 af
Outflow=26.20 cfs 6.980 af

Pond 103P: Twin Culvert CUL-103 A and B Peak Elev=25.77' Inflow=13.31 cfs 5.667 af
Outflow=13.31 cfs 5.667 af

Pond 155P: Detention Pond Modeled as Catch Basin Peak Elev=35.56' Inflow=3.90 cfs 0.369 af
12.0" x 145.0' Culvert Outflow=3.90 cfs 0.369 af

Pond CB122: CB122 Peak Elev=10.56' Inflow=7.33 cfs 0.749 af
15.0" x 35.0' Culvert Outflow=7.33 cfs 0.749 af

Pond CB123: CB123 Outfall Structure at Culvert 113 Peak Elev=10.43' Inflow=7.33 cfs 0.749 af
15.0" x 45.0' Culvert Outflow=7.33 cfs 0.749 af

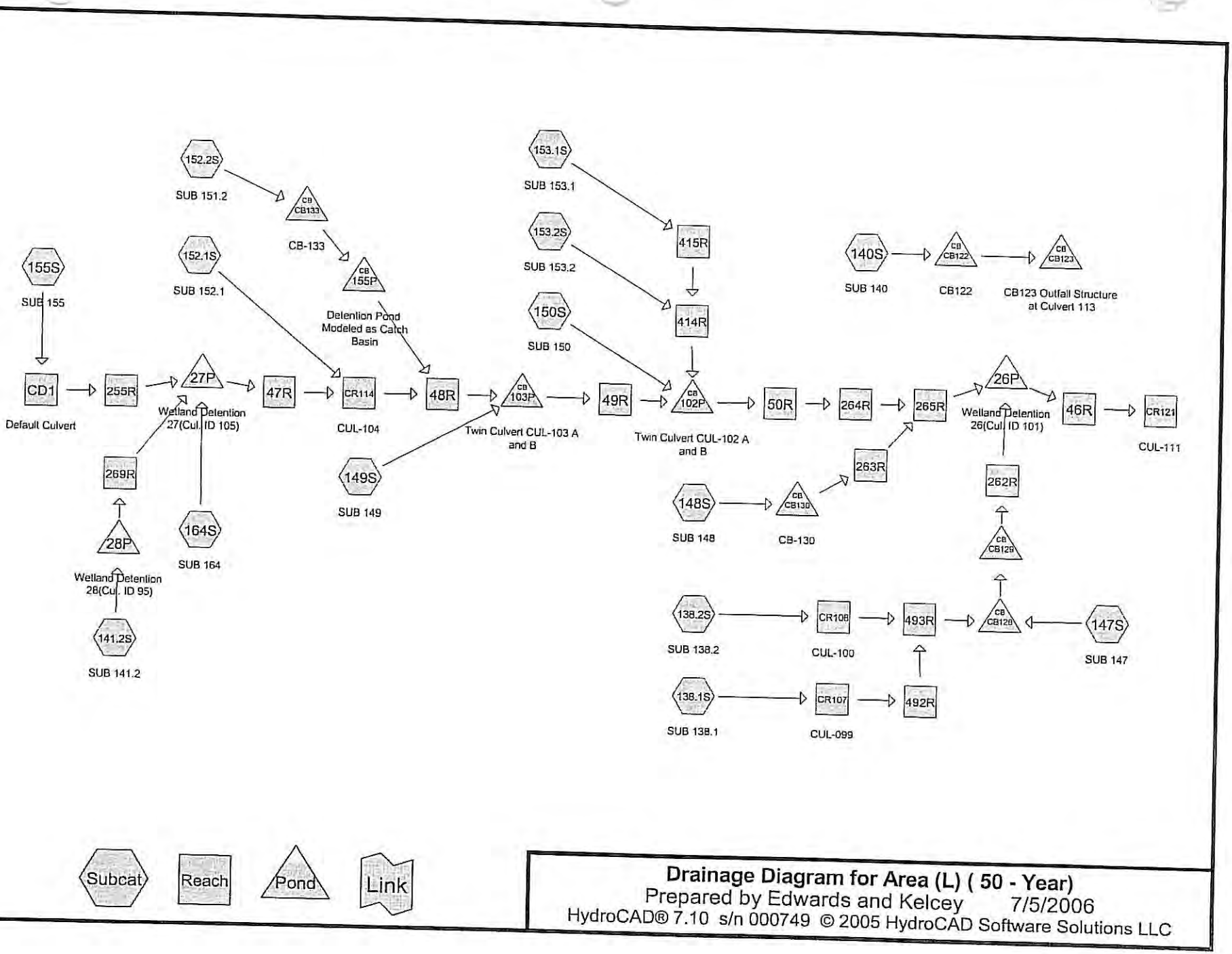
Pond CB128: Peak Elev=54.10' Inflow=39.71 cfs 7.069 af
15.0" x 45.0' Culvert Outflow=39.71 cfs 7.069 af

Pond CB129: Peak Elev=78.27' Inflow=39.71 cfs 7.069 af
15.0" x 200.0' Culvert Outflow=39.71 cfs 7.069 af

Pond CB130: CB-130 Peak Elev=9.91' Inflow=4.21 cfs 0.456 af
15.0" x 50.0' Culvert Outflow=4.21 cfs 0.456 af

Pond CB133: CB-133 Peak Elev=37.68' Inflow=3.90 cfs 0.369 af
18.0" x 45.0' Culvert Outflow=3.90 cfs 0.369 af

Total Runoff Area = 218.450 ac Runoff Volume = 52.131 af Average Runoff Depth = 2.86"


152.2S
SUB 151.2
CB CB133
CB-133
155S
SUB 155
152.1S
SUB 152.1
CB 155P
Detention Pond Modeled as Catch Basin
153.1S
SUB 153.1
153.2S
SUB 153.2
150S
SUB 150
415R
414R
140S
SUB 140
CB CB122
CB122
CB CB123
CB123 Outfall Structure at Culvert 113
CD1
Default Culvert
255R
27P
Wetland Detention 27(Cul. ID 105)
47R
CR114
CUL-104
48R
CB 103P
Twin Culvert CUL-103 A and B
49R
CB 102P
Twin Culvert CUL-102 A and B
50R
264R
265R
26P
Wetland Detention 26(Cul. ID 101)
46R
CR121
CUL-111
269R
28P
Wetland Detention 28(Cul. ID 95)
141.2S
SUB 141.2
164S
SUB 164
149S
SUB 149
148S
SUB 148
CB CB130
CB-130
263R
262R
CB CB129
138.2S
SUB 138.2
CR108
CUL-100
493R
CB CB128
147S
SUB 147
138.1S
SUB 138.1
CR107
CUL-099
492R
Subcat
Reach
Pond
Link
Drainage Diagram for Area (L) (50 - Year)
Prepared by Edwards and Kelcey 7/5/2006
HydroCAD® 7.10 s/n 000749 © 2005 HydroCAD Software Solutions LLC

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 138.1S: SUB 138.1 Runoff Area=6.340 ac Runoff Depth>3.85"
Flow Length=1,009' Tc=28.9 min CN=85 Runoff=17.32 cfs 2.034 af

Subcatchment 138.2S: SUB 138.2 Runoff Area=2.380 ac Runoff Depth>3.33"
Flow Length=568' Tc=46.5 min CN=80 Runoff=4.57 cfs 0.660 af

Subcatchment 140S: SUB 140 Runoff Area=2.360 ac Runoff Depth>4.17"
Flow Length=270' Tc=20.3 min CN=88 Runoff=8.00 cfs 0.821 af

Subcatchment 141.2S: SUB 141.2 Runoff Area=22.150 ac Runoff Depth>3.15"
Flow Length=1,352' Tc=34.3 min CN=78 Runoff=46.89 cfs 5.816 af

Subcatchment 147S: SUB 147 Runoff Area=18.930 ac Runoff Depth>3.43"
Flow Length=1,338' Tc=44.2 min CN=81 Runoff=38.31 cfs 5.411 af

Subcatchment 148S: SUB 148 Runoff Area=1.400 ac Runoff Depth>4.27"
Flow Length=539' Tc=23.0 min CN=89 Runoff=4.58 cfs 0.499 af

Subcatchment 149S: SUB 149 Runoff Area=0.650 ac Runoff Depth>4.17"
Flow Length=265' Tc=18.1 min CN=88 Runoff=2.30 cfs 0.226 af

Subcatchment 150S: SUB 150 Runoff Area=1.510 ac Runoff Depth>4.18"
Flow Length=230' Tc=12.6 min CN=88 Runoff=6.12 cfs 0.526 af

Subcatchment 152.1S: SUB 152.1 Runoff Area=3.560 ac Runoff Depth>3.66"
Flow Length=204' Tc=19.0 min CN=83 Runoff=11.12 cfs 1.085 af

Subcatchment 152.2S: SUB 151.2 Runoff Area=1.160 ac Runoff Depth>4.18"
Flow Length=231' Tc=16.6 min CN=88 Runoff=4.26 cfs 0.404 af

Subcatchment 153.1S: SUB 153.1 Runoff Area=0.650 ac Runoff Depth>3.94"
Flow Length=200' Tc=37.2 min CN=86 Runoff=1.61 cfs 0.214 af

Subcatchment 153.2S: SUB 153.2 Runoff Area=2.060 ac Runoff Depth>4.18"
Flow Length=360' Tc=11.3 min CN=88 Runoff=8.67 cfs 0.718 af

Subcatchment 155S: SUB 155 Runoff Area=11.650 ac Runoff Depth>3.43"
Flow Length=753' Tc=41.9 min CN=81 Runoff=24.23 cfs 3.332 af

Subcatchment 164S: SUB 164 Runoff Area=143.650 ac Runoff Depth>3.04"
Flow Length=2,698' Tc=51.8 min CN=77 Runoff=238.67 cfs 36.355 af

Reach 46R: Peak Depth=1.40' Max Vel=0.8 fps Inflow=12.37 cfs 7.919 af
n=0.080 L=649.0' S=0.0018 '/' Capacity=91.49 cfs Outflow=12.36 cfs 7.477 af

Reach 47R: Peak Depth=1.22' Max Vel=1.9 fps Inflow=31.20 cfs 18.275 af
n=0.080 L=344.0' S=0.0148 '/' Capacity=231.43 cfs Outflow=31.20 cfs 18.037 af

Reach 48R: Peak Depth=0.94' Max Vel=3.2 fps Inflow=11.65 cfs 5.599 af
n=0.040 L=290.0' S=0.0148 '/' Capacity=145.83 cfs Outflow=11.56 cfs 5.566 af

Reach 49R: Peak Depth=0.73' Max Vel=5.5 fps Inflow=13.85 cfs 5.792 af
n=0.040 L=228.0' S=0.0583 '/' Capacity=289.25 cfs Outflow=13.78 cfs 5.776 af

Reach 50R: Peak Depth=1.30' Max Vel=4.7 fps Inflow=28.00 cfs 7.232 af
n=0.040 L=50.0' S=0.0226 '/' Capacity=180.04 cfs Outflow=27.95 cfs 7.227 af

Reach 255R: Peak Depth=1.67' Max Vel=2.0 fps Inflow=24.22 cfs 3.332 af
n=0.080 L=50.0' S=0.0106 '/' Capacity=153.00 cfs Outflow=24.18 cfs 3.330 af

Reach 262R: Peak Depth=1.30' Max Vel=0.8 fps Inflow=43.40 cfs 7.799 af
n=0.080 L=116.0' S=0.0017 '/' Capacity=97.65 cfs Outflow=43.22 cfs 7.770 af

Reach 263R: Peak Depth=0.38' Max Vel=0.3 fps Inflow=4.58 cfs 0.499 af
n=0.080 L=151.0' S=0.0013 '/' Capacity=85.59 cfs Outflow=4.25 cfs 0.493 af

Reach 264R: Peak Depth=1.05' Max Vel=0.6 fps Inflow=27.95 cfs 7.227 af
n=0.080 L=129.0' S=0.0016 '/' Capacity=92.60 cfs Outflow=27.20 cfs 7.137 af

Reach 265R: Peak Depth=1.05' Max Vel=0.6 fps Inflow=29.87 cfs 7.630 af
n=0.080 L=475.0' S=0.0014 '/' Capacity=86.99 cfs Outflow=25.95 cfs 7.278 af

Reach 269R: Peak Depth=0.27' Max Vel=1.4 fps Inflow=3.32 cfs 2.302 af
n=0.040 L=2,510.0' S=0.0116 '/' Capacity=46.19 cfs Outflow=3.32 cfs 2.035 af

Reach 414R: Peak Depth=0.58' Max Vel=5.9 fps Inflow=9.22 cfs 0.931 af
n=0.030 L=359.0' S=0.0518 '/' Capacity=128.38 cfs Outflow=8.97 cfs 0.930 af

Reach 415R: Peak Depth=0.10' Max Vel=2.4 fps Inflow=1.61 cfs 0.214 af
n=0.030 L=452.0' S=0.0635 '/' Capacity=1,866.25 cfs Outflow=1.61 cfs 0.213 af

Reach 492R: Peak Depth=0.65' Max Vel=2.6 fps Inflow=4.87 cfs 2.034 af
n=0.030 L=307.0' S=0.0092 '/' Capacity=54.06 cfs Outflow=4.70 cfs 2.030 af

Reach 493R: Peak Depth=0.45' Max Vel=1.1 fps Inflow=5.16 cfs 2.400 af
n=0.040 L=219.0' S=0.0041 '/' Capacity=356.09 cfs Outflow=5.10 cfs 2.389 af

Reach CD1: Default Culvert Peak Depth=1.77' Max Vel=5.6 fps Inflow=24.23 cfs 3.332 af
D=36.0" n=0.011 L=45.0' S=0.0022 '/' Capacity=37.16 cfs Outflow=24.22 cfs 3.332 af

Reach CR107: CUL-099 Peak Depth=1.00' Max Vel=6.7 fps Inflow=17.32 cfs 2.034 af
D=12.0" n=0.010 L=25.0' S=0.0100 '/' Capacity=4.63 cfs Outflow=4.87 cfs 2.034 af

Reach CR108: CUL-100 Peak Depth=0.50' Max Vel=2.7 fps Inflow=4.57 cfs 0.660 af
D=6.0" n=0.010 L=25.0' S=0.0040 '/' Capacity=0.46 cfs Outflow=0.49 cfs 0.370 af

Reach CR114: CUL-104 Peak Depth=2.00' Max Vel=2.7 fps Inflow=31.79 cfs 19.122 af
D=24.0" n=0.024 L=55.0' S=0.0036 '/' Capacity=7.39 cfs Outflow=7.70 cfs 5.195 af

Reach CR121: CUL-111 Peak Depth=2.00' Max Vel=2.4 fps Inflow=12.36 cfs 7.477 af
D=24.0" n=0.024 L=70.0' S=0.0029 '/' Capacity=6.55 cfs Outflow=6.84 cfs 4.540 af

Pond 26P: Wetland Detention 26(Cul. ID 101 Peak Elev=9.94' Storage=7.411 af Inflow=69.00 cfs 15.047 af
Outflow=12.37 cfs 7.919 af

Pond 27P: Wetland Detention 27(Cul. ID Peak Elev=37.83' Storage=26.839 af Inflow=263.04 cfs 41.720 af
30.0" x 55.0' Culvert Outflow=31.20 cfs 18.275 af

Pond 28P: Wetland Detention 28(Cul. ID 95) Peak Elev=68.10' Storage=3.871 af Inflow=46.89 cfs 5.816 af
Outflow=3.32 cfs 2.302 af

Pond 102P: Twin Culvert CUL-102 A and B Peak Elev=12.63' Inflow=28.00 cfs 7.232 af
Outflow=28.00 cfs 7.232 af

Pond 103P: Twin Culvert CUL-103 A and B Peak Elev=25.80' Inflow=13.85 cfs 5.792 af
Outflow=13.85 cfs 5.792 af

Pond 155P: Detention Pond Modeled as Catch Basin Peak Elev=35.77' Inflow=4.26 cfs 0.404 af
12.0" x 145.0' Culvert Outflow=4.26 cfs 0.404 af

Pond CB122: CB122 Peak Elev=10.86' Inflow=8.00 cfs 0.821 af
15.0" x 35.0' Culvert Outflow=8.00 cfs 0.821 af

Pond CB123: CB123 Outfall Structure at Culvert 113 Peak Elev=10.65' Inflow=8.00 cfs 0.821 af
15.0" x 45.0' Culvert Outflow=8.00 cfs 0.821 af

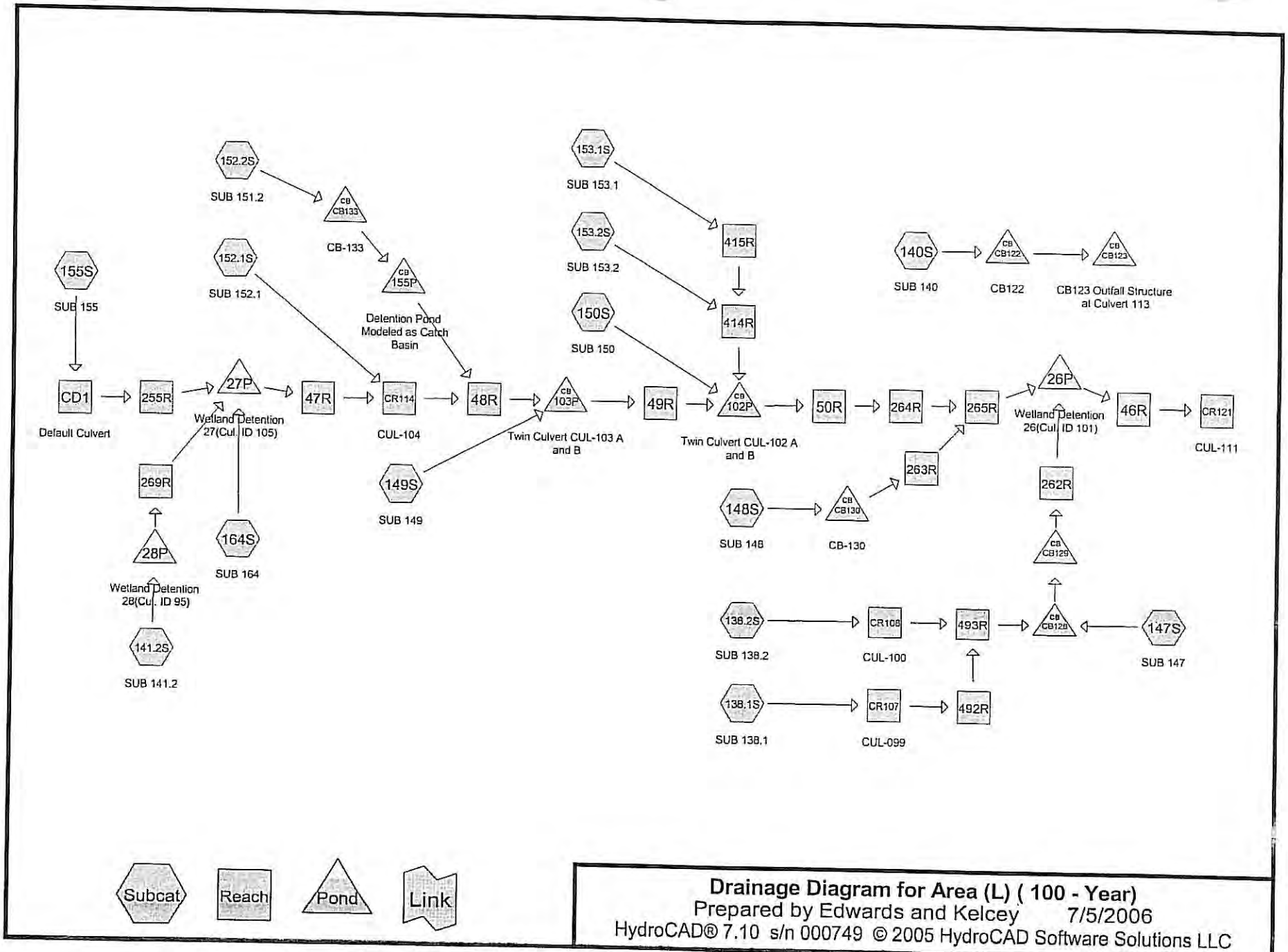
Pond CB128: Peak Elev=62.87' Inflow=43.40 cfs 7.799 af
15.0" x 45.0' Culvert Outflow=43.40 cfs 7.799 af

Pond CB129: Peak Elev=91.72' Inflow=43.40 cfs 7.799 af
15.0" x 200.0' Culvert Outflow=43.40 cfs 7.799 af

Pond CB130: CB-130 Peak Elev=10.00' Inflow=4.58 cfs 0.499 af
15.0" x 50.0' Culvert Outflow=4.58 cfs 0.499 af

Pond CB133: CB-133 Peak Elev=37.77' Inflow=4.26 cfs 0.404 af
18.0" x 45.0' Culvert Outflow=4.26 cfs 0.404 af

Total Runoff Area = 218.450 ac Runoff Volume = 58.099 af Average Runoff Depth = 3.19"


152.2S
SUB 151.2
CB CB133
CB-133
155S
SUB 155
152.1S
SUB 152.1
CB 155P
Detention Pond Modeled as Catch Basin
153.1S
SUB 153.1
153.2S
SUB 153.2
150S
SUB 150
415R
414R
140S
SUB 140
CB CB122
CB122
CB CB123
CB123 Outfall Structure at Culvert 113
CD1
Default Culvert
255R
27P
Wetland Detention 27(Cul. ID 105)
47R
CR114
CUL-104
48R
CB 103P
Twin Culvert CUL-103 A and B
49R
CB 102P
Twin Culvert CUL-102 A and B
50R
264R
265R
26P
Wetland Detention 26(Cul. ID 101)
46R
CR121
CUL-111
269R
28P
Wetland Detention 28(Cul. ID 95)
141.2S
SUB 141.2
164S
SUB 164
149S
SUB 149
148S
SUB 148
CB CB130
CB-130
263R
262R
CB CB129
138.2S
SUB 138.2
CR108
CUL-100
493R
CB CB128
147S
SUB 147
138.1S
SUB 138.1
CR107
CUL-099
492R
Subcat
Reach
Pond
Link
Drainage Diagram for Area (L) (100 - Year)
Prepared by Edwards and Kelcey 7/5/2006
HydroCAD® 7.10 s/n 000749 © 2005 HydroCAD Software Solutions LLC

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 138.1S: SUB 138.1 Runoff Area=6.340 ac Runoff Depth>4.57"
Flow Length=1,009' Tc=28.9 min CN=85 Runoff=20.38 cfs 2.412 af

Subcatchment 138.2S: SUB 138.2 Runoff Area=2.380 ac Runoff Depth>4.01"
Flow Length=568' Tc=46.5 min CN=80 Runoff=5.47 cfs 0.796 af

Subcatchment 140S: SUB 140 Runoff Area=2.360 ac Runoff Depth>4.90"
Flow Length=270' Tc=20.3 min CN=88 Runoff=9.32 cfs 0.964 af

Subcatchment 141.2S: SUB 141.2 Runoff Area=22.150 ac Runoff Depth>3.82"
Flow Length=1,352' Tc=34.3 min CN=78 Runoff=56.60 cfs 7.050 af

Subcatchment 147S: SUB 147 Runoff Area=18.930 ac Runoff Depth>4.12"
Flow Length=1,338' Tc=44.2 min CN=81 Runoff=45.72 cfs 6.497 af

Subcatchment 148S: SUB 148 Runoff Area=1.400 ac Runoff Depth>5.01"
Flow Length=539' Tc=23.0 min CN=89 Runoff=5.33 cfs 0.584 af

Subcatchment 149S: SUB 149 Runoff Area=0.650 ac Runoff Depth>4.91"
Flow Length=265' Tc=18.1 min CN=88 Runoff=2.68 cfs 0.266 af

Subcatchment 150S: SUB 150 Runoff Area=1.510 ac Runoff Depth>4.91"
Flow Length=230' Tc=12.6 min CN=88 Runoff=7.13 cfs 0.618 af

Subcatchment 152.1S: SUB 152.1 Runoff Area=3.560 ac Runoff Depth>4.36"
Flow Length=204' Tc=19.0 min CN=83 Runoff=13.18 cfs 1.295 af

Subcatchment 152.2S: SUB 151.2 Runoff Area=1.160 ac Runoff Depth>4.91"
Flow Length=231' Tc=16.6 min CN=88 Runoff=4.96 cfs 0.474 af

Subcatchment 153.1S: SUB 153.1 Runoff Area=0.650 ac Runoff Depth>4.66"
Flow Length=200' Tc=37.2 min CN=86 Runoff=1.89 cfs 0.253 af

Subcatchment 153.2S: SUB 153.2 Runoff Area=2.060 ac Runoff Depth>4.91"
Flow Length=360' Tc=11.3 min CN=88 Runoff=10.09 cfs 0.843 af

Subcatchment 155S: SUB 155 Runoff Area=11.650 ac Runoff Depth>4.12"
Flow Length=753' Tc=41.9 min CN=81 Runoff=28.92 cfs 4.002 af

Subcatchment 164S: SUB 164 Runoff Area=143.650 ac Runoff Depth>3.69"
Flow Length=2,698' Tc=51.8 min CN=77 Runoff=289.33 cfs 44.229 af

Reach 46R: Peak Depth=1.83' Max Vel=0.9 fps Inflow=22.53 cfs 9.677 af
n=0.080 L=649.0' S=0.0018 '/' Capacity=91.49 cfs Outflow=20.02 cfs 9.251 af

Reach 47R: Peak Depth=2.13' Max Vel=2.6 fps Inflow=146.49 cfs 24.833 af
n=0.080 L=344.0' S=0.0148 '/' Capacity=231.43 cfs Outflow=103.00 cfs 24.620 af

Reach 48R: Peak Depth=0.97' Max Vel=3.2 fps Inflow=12.35 cfs 5.830 af
n=0.040 L=290.0' S=0.0148 '/' Capacity=145.83 cfs Outflow=12.25 cfs 5.796 af

Reach 49R: Peak Depth=0.76' Max Vel=5.6 fps Inflow=14.92 cfs 6.062 af
n=0.040 L=228.0' S=0.0583 '/' Capacity=289.25 cfs Outflow=14.83 cfs 6.047 af

Reach 50R: Peak Depth=1.37' Max Vel=4.8 fps Inflow=31.40 cfs 7.759 af
n=0.040 L=50.0' S=0.0226 '/' Capacity=180.04 cfs Outflow=31.35 cfs 7.754 af

Reach 255R: Peak Depth=1.82' Max Vel=2.1 fps Inflow=28.91 cfs 4.001 af
n=0.080 L=50.0' S=0.0106 '/' Capacity=153.00 cfs Outflow=28.86 cfs 3.999 af

Reach 262R: Peak Depth=1.42' Max Vel=0.8 fps Inflow=50.82 cfs 9.280 af
n=0.080 L=116.0' S=0.0017 '/' Capacity=97.65 cfs Outflow=50.60 cfs 9.248 af

Reach 263R: Peak Depth=0.42' Max Vel=0.3 fps Inflow=5.33 cfs 0.584 af
n=0.080 L=151.0' S=0.0013 '/' Capacity=85.59 cfs Outflow=4.97 cfs 0.578 af

Reach 264R: Peak Depth=1.11' Max Vel=0.7 fps Inflow=31.35 cfs 7.754 af
n=0.080 L=129.0' S=0.0016 '/' Capacity=92.60 cfs Outflow=30.59 cfs 7.665 af

Reach 265R: Peak Depth=1.13' Max Vel=0.6 fps Inflow=33.90 cfs 8.243 af
n=0.080 L=475.0' S=0.0014 '/' Capacity=86.99 cfs Outflow=29.72 cfs 7.893 af

Reach 269R: Peak Depth=0.28' Max Vel=1.4 fps Inflow=3.59 cfs 2.536 af
n=0.040 L=2,510.0' S=0.0116 '/' Capacity=46.19 cfs Outflow=3.59 cfs 2.252 af

Reach 414R: Peak Depth=0.63' Max Vel=6.1 fps Inflow=10.76 cfs 1.095 af
n=0.030 L=359.0' S=0.0518 '/' Capacity=128.38 cfs Outflow=10.47 cfs 1.094 af

Reach 415R: Peak Depth=0.10' Max Vel=2.5 fps Inflow=1.89 cfs 0.253 af
n=0.030 L=452.0' S=0.0635 '/' Capacity=1,866.25 cfs Outflow=1.88 cfs 0.252 af

Reach 492R: Peak Depth=0.65' Max Vel=2.6 fps Inflow=4.95 cfs 2.412 af
n=0.030 L=307.0' S=0.0092 '/' Capacity=54.06 cfs Outflow=4.73 cfs 2.408 af

Reach 493R: Peak Depth=0.45' Max Vel=1.1 fps Inflow=5.19 cfs 2.795 af
n=0.040 L=219.0' S=0.0041 '/' Capacity=356.09 cfs Outflow=5.11 cfs 2.783 af

Reach CD1: Default Culvert Peak Depth=1.99' Max Vel=5.8 fps Inflow=28.92 cfs 4.002 af
D=36.0" n=0.011 L=45.0' S=0.0022 '/' Capacity=37.16 cfs Outflow=28.91 cfs 4.001 af

Reach CR107: CUL-099 Peak Depth=1.00' Max Vel=6.7 fps Inflow=20.38 cfs 2.412 af
D=12.0" n=0.010 L=25.0' S=0.0100 '/' Capacity=4.63 cfs Outflow=4.95 cfs 2.412 af

Reach CR108: CUL-100 Peak Depth=0.50' Max Vel=2.7 fps Inflow=5.47 cfs 0.796 af
D=6.0" n=0.010 L=25.0' S=0.0040 '/' Capacity=0.46 cfs Outflow=0.49 cfs 0.387 af

Reach CR114: CUL-104 Peak Depth=2.00' Max Vel=2.7 fps Inflow=104.36 cfs 25.914 af
D=24.0" n=0.024 L=55.0' S=0.0036 '/' Capacity=7.39 cfs Outflow=7.82 cfs 5.355 af

Reach CR121: CUL-111 Peak Depth=2.00' Max Vel=2.4 fps Inflow=20.02 cfs 9.251 af
D=24.0" n=0.024 L=70.0' S=0.0029 '/' Capacity=6.55 cfs Outflow=6.68 cfs 4.739 af

Pond 26P: Wetland Detention 26(Cul. ID 10 Peak Elev=10.11' Storage=7.751 af Inflow=80.27 cfs 17.141 af
Outflow=22.53 cfs 9.677 af

Pond 27P: Wetland Detention 27(Cul. ID Peak Elev=73.73' Storage=28.750 af Inflow=318.38 cfs 50.480 af
30.0" x 55.0' Culvert Outflow=146.49 cfs 24.833 af

Pond 28P: Wetland Detention 28(Cul. ID 95) Peak Elev=68.37' Storage=4.846 af Inflow=56.60 cfs 7.050 af
Outflow=3.59 cfs 2.536 af

Pond 102P: Twin Culvert CUL-102 A and B Peak Elev=12.97' Inflow=31.40 cfs 7.759 af
Outflow=31.40 cfs 7.759 af

Pond 103P: Twin Culvert CUL-103 A and B Peak Elev=25.85' Inflow=14.92 cfs 6.062 af
Outflow=14.92 cfs 6.062 af

Pond 155P: Detention Pond Modeled as Catch Basin Peak Elev=36.20' Inflow=4.96 cfs 0.474 af
12.0" x 145.0' Culvert Outflow=4.96 cfs 0.474 af

Pond CB122: CB122 Peak Elev=11.51' Inflow=9.32 cfs 0.964 af
15.0" x 35.0' Culvert Outflow=9.32 cfs 0.964 af

Pond CB123: CB123 Outfall Structure at Culvert 113 Peak Elev=11.31' Inflow=9.32 cfs 0.964 af
15.0" x 45.0' Culvert Outflow=9.32 cfs 0.964 af

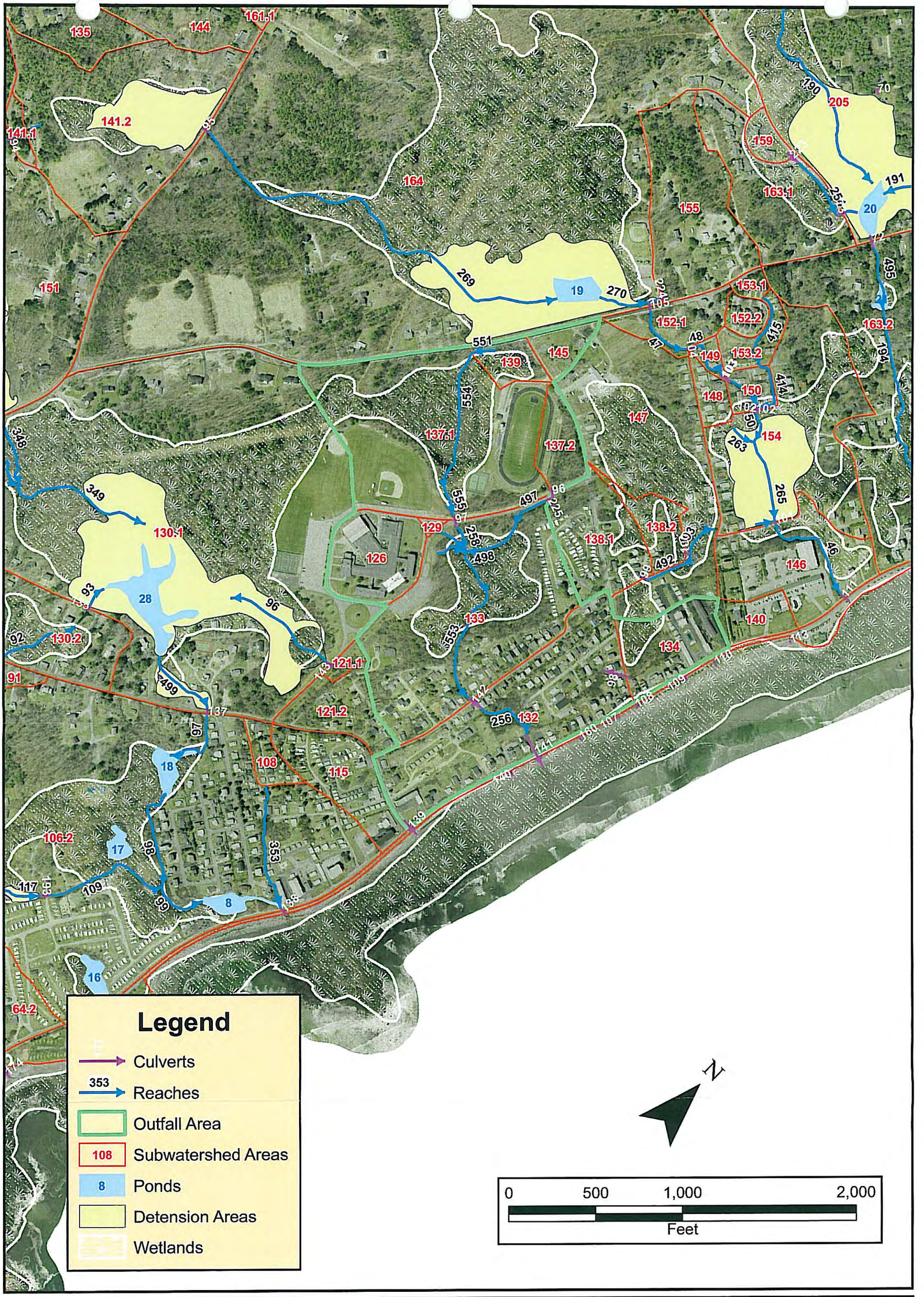
Pond CB128: Peak Elev=82.88' Inflow=50.82 cfs 9.280 af
15.0" x 45.0' Culvert Outflow=50.82 cfs 9.280 af

Pond CB129: Peak Elev=122.42' Inflow=50.82 cfs 9.280 af
15.0" x 200.0' Culvert Outflow=50.82 cfs 9.280 af

Pond CB130: CB-130 Peak Elev=10.29' Inflow=5.33 cfs 0.584 af
15.0" x 50.0' Culvert Outflow=5.33 cfs 0.584 af

Pond CB133: CB-133 Peak Elev=37.99' Inflow=4.96 cfs 0.474 af
18.0" x 45.0' Culvert Outflow=4.96 cfs 0.474 af

Total Runoff Area = 218.450 ac Runoff Volume = 70.283 af Average Runoff Depth = 3.86"



DRAWN BY: **CJK**	DATE: **MAY 31, 2006**
CHECKED BY: **SJB**	PROJECT: **060057018**

OUTFALL "M"

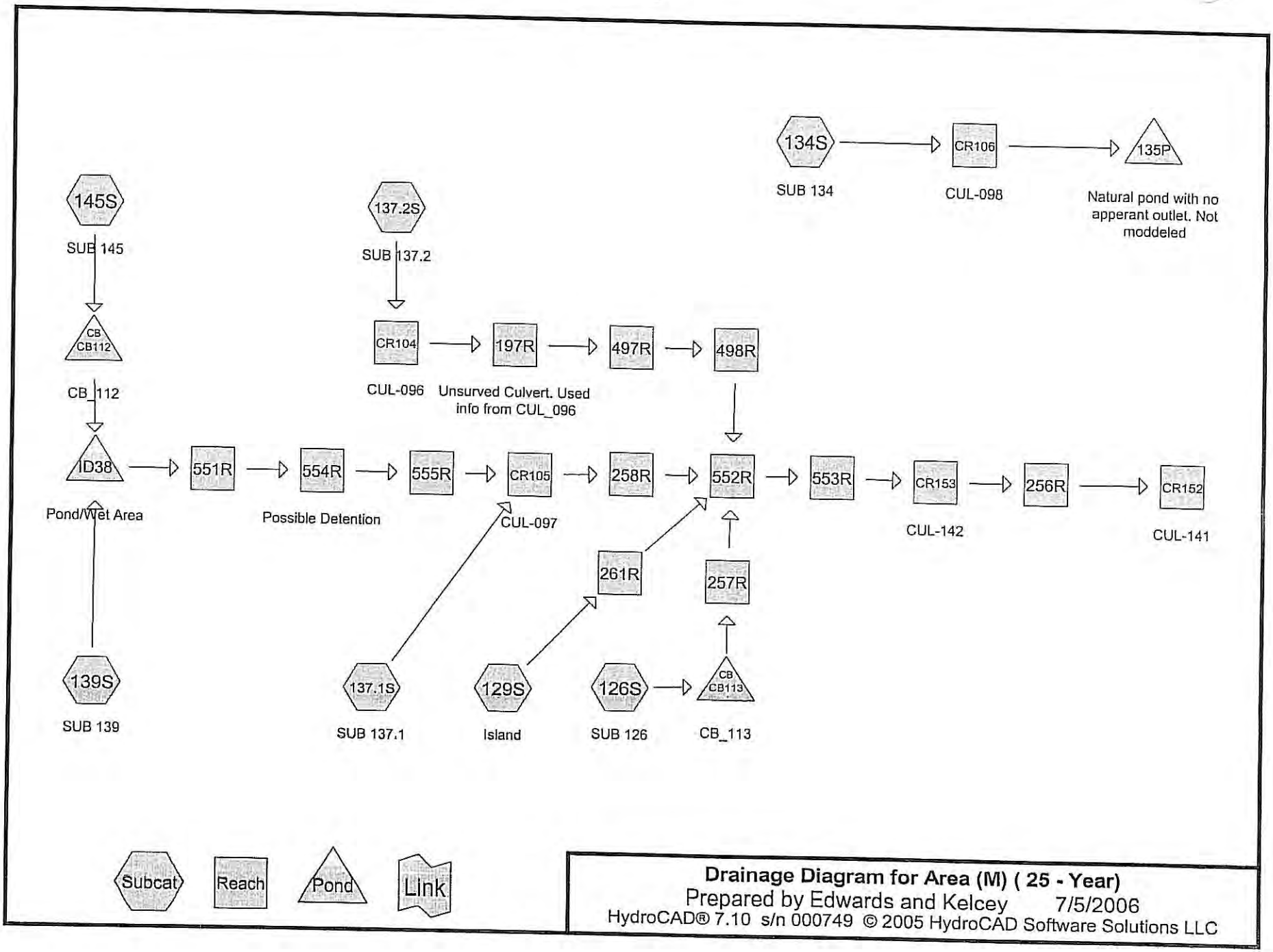
Data Sources:
Town of York
Maine Office of GIS

Edwards AND Kelcey
ENGINEERS
ARCHITECTS
PLANNERS
CONSTRUCTORS

222 St. John Street Suite 314
Portland, Maine 04102
Tel. (207) 828-1272 Fax (207) 774-6907
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TOWN OF YORK, MAINE

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134S
CR106
135P
SUB 134
CUL-098
Natural pond with no apperant outlet. Not moddeled
145S
SUB 145
137.2S
SUB 137.2
CB CB112
CB_112
CR104
197R
497R
498R
CUL-096
Unsurved Culvert. Used info from CUL_096
ID38
551R
554R
555R
CR105
258R
552R
553R
CR153
256R
CR152
Pond/Wet Area
Possible Detention
CUL-097
CUL-142
CUL-141
261R
257R
139S
SUB 139
137.1S
SUB 137.1
129S
Island
126S
SUB 126
CB CB113
CB_113
Subcat
Reach
Pond
Link
Drainage Diagram for Area (M) (25 - Year)
Prepared by Edwards and Kelcey 7/5/2006
HydroCAD® 7.10 s/n 000749 © 2005 HydroCAD Software Solutions LLC

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 126S: SUB 126 Runoff Area=5.880 ac Runoff Depth>4.78"
Flow Length=481' Tc=5.2 min CN=98 Runoff=31.03 cfs 2.344 af

Subcatchment 129S: Island Runoff Area=0.310 ac Runoff Depth>4.20"
Flow Length=1,638' Tc=44.5 min CN=92 Runoff=0.73 cfs 0.108 af

Subcatchment 134S: SUB 134 Runoff Area=5.320 ac Runoff Depth>3.91"
Flow Length=334' Tc=26.6 min CN=89 Runoff=15.02 cfs 1.731 af

Subcatchment 137.1S: SUB 137.1 Runoff Area=23.990 ac Runoff Depth>2.94"
Flow Length=1,401' Tc=95.0 min CN=80 Runoff=26.74 cfs 5.879 af

Subcatchment 137.2S: SUB 137.2 Runoff Area=2.780 ac Runoff Depth>3.19"
Flow Length=395' Tc=36.1 min CN=82 Runoff=5.78 cfs 0.740 af

Subcatchment 139S: SUB 139 Runoff Area=1.920 ac Runoff Depth>3.02"
Flow Length=228' Tc=24.1 min CN=80 Runoff=4.54 cfs 0.483 af

Subcatchment 145S: SUB 145 Runoff Area=1.590 ac Runoff Depth>3.30"
Flow Length=319' Tc=23.3 min CN=83 Runoff=4.14 cfs 0.438 af

Reach 197R: Unsurved Culvert. Used info fro Peak Depth=1.00' Max Vel=4.8 fps Inflow=3.88 cfs 0.740 af
D=12.0" n=0.010 L=60.0' S=0.0050 '/' Capacity=3.28 cfs Outflow=3.28 cfs 0.740 af

Reach 256R: Peak Depth=0.53' Max Vel=2.3 fps Inflow=14.14 cfs 8.899 af
n=0.040 L=363.0' S=0.0152 '/' Capacity=683.73 cfs Outflow=13.69 cfs 8.874 af

Reach 257R: Peak Depth=0.61' Max Vel=4.1 fps Inflow=31.03 cfs 2.344 af
n=0.040 L=187.0' S=0.0417 '/' Capacity=1,134.45 cfs Outflow=30.07 cfs 2.341 af

Reach 258R: Peak Depth=0.60' Max Vel=3.7 fps Inflow=26.71 cfs 5.878 af
n=0.040 L=157.0' S=0.0333 '/' Capacity=1,013.82 cfs Outflow=26.71 cfs 5.873 af

Reach 261R: Peak Depth=0.07' Max Vel=1.4 fps Inflow=0.73 cfs 0.108 af
n=0.040 L=211.0' S=0.0512 '/' Capacity=1,256.70 cfs Outflow=0.72 cfs 0.108 af

Reach 497R: Peak Depth=0.24' Max Vel=1.6 fps Inflow=3.28 cfs 0.740 af
n=0.040 L=244.0' S=0.0180 '/' Capacity=745.92 cfs Outflow=3.28 cfs 0.737 af

Reach 498R: Peak Depth=0.27' Max Vel=0.5 fps Inflow=3.28 cfs 0.737 af
n=0.080 L=345.0' S=0.0052 '/' Capacity=129.74 cfs Outflow=3.28 cfs 0.726 af

Reach 551R: Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.040 L=144.0' S=0.0014 '/' Capacity=207.01 cfs Outflow=0.00 cfs 0.000 af

Reach 552R: Peak Depth=1.67' Max Vel=0.5 fps Inflow=35.30 cfs 9.048 af
n=0.080 L=298.0' S=0.0007 '/' Capacity=46.53 cfs Outflow=32.11 cfs 8.944 af

Reach 553R: Peak Depth=0.82' Max Vel=2.8 fps Inflow=32.11 cfs 8.944 af
n=0.040 L=680.0' S=0.0135 '/' Capacity=646.10 cfs Outflow=32.03 cfs 8.900 af

Reach 554R: Possible Detention Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.080 L=833.0' S=0.0048 '/' Capacity=124.47 cfs Outflow=0.00 cfs 0.000 af

Reach 555R: Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.040 L=155.0' S=0.0381 '/' Capacity=143.22 cfs Outflow=0.00 cfs 0.000 af

Reach CR104: CUL-096 Peak Depth=1.00' Max Vel=5.6 fps Inflow=5.78 cfs 0.740 af
D=12.0" n=0.010 L=60.0' S=0.0070 '/' Capacity=3.88 cfs Outflow=3.88 cfs 0.740 af

Reach CR105: CUL-097 Peak Depth=1.16' Max Vel=10.6 fps Inflow=26.74 cfs 5.879 af
D=36.0" n=0.010 L=70.0' S=0.0096 '/' Capacity=84.83 cfs Outflow=26.71 cfs 5.878 af

Reach CR106: CUL-098 Peak Depth=1.00' Max Vel=1.3 fps Inflow=15.02 cfs 1.731 af
D=12.0" n=0.024 L=200.0' S=0.0023 '/' Capacity=0.92 cfs Outflow=0.97 cfs 0.854 af

Reach CR152: CUL-141 Peak Depth=1.61' Max Vel=3.5 fps Inflow=13.69 cfs 8.874 af
D=36.0" n=0.024 L=220.0' S=0.0045 '/' Capacity=24.36 cfs Outflow=13.67 cfs 8.864 af

Reach CR153: CUL-142 Peak Depth=1.50' Max Vel=8.8 fps Inflow=32.03 cfs 8.900 af
D=18.0" n=0.010 L=80.0' S=0.0100 '/' Capacity=13.66 cfs Outflow=14.14 cfs 8.899 af

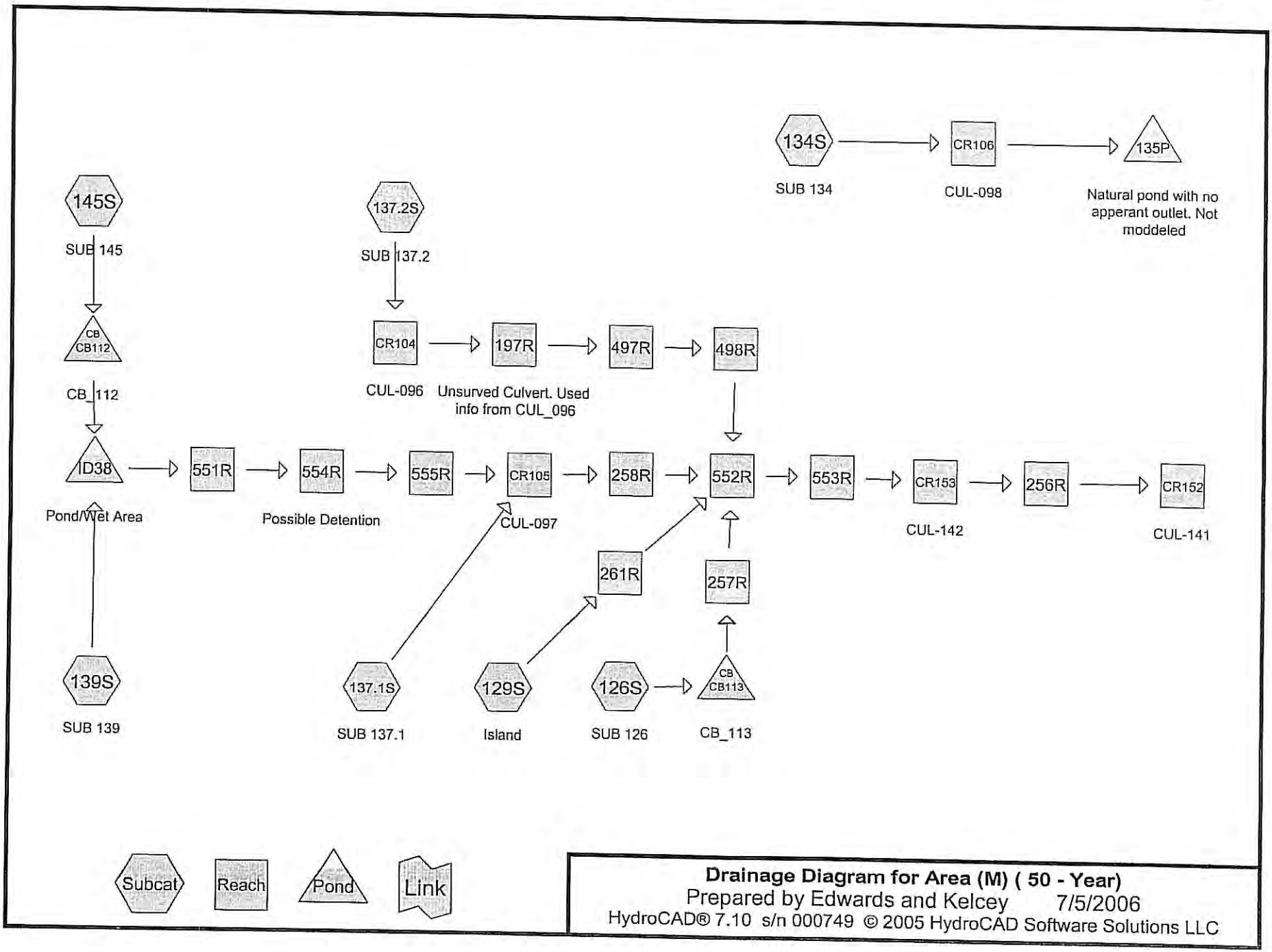
Pond 135P: Natural pond with no apperant outlet. Not moddeled Inflow=0.97 cfs 0.854 af
Primary=0.97 cfs 0.854 af

Pond CB112: CB_112 Peak Elev=37.26' Inflow=4.14 cfs 0.438 af
18.0" x 70.0' Culvert Outflow=4.14 cfs 0.438 af

Pond CB113: CB_113 Peak Elev=56.84' Inflow=31.03 cfs 2.344 af
15.0" x 100.0' Culvert Outflow=31.03 cfs 2.344 af

Pond ID38: Pond/Wet Area Peak Elev=33.11' Storage=0.920 af Inflow=8.68 cfs 0.921 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 41.790 ac Runoff Volume = 11.724 af Average Runoff Depth = 3.37"



Drainage Diagram for Area (M) (50 - Year)

Prepared by Edwards and Kelcey 7/5/2006

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 126S: SUB 126 Runoff Area=5.880 ac Runoff Depth>5.15"
Flow Length=481' Tc=5.2 min CN=98 Runoff=33.35 cfs 2.522 af

Subcatchment 129S: Island Runoff Area=0.310 ac Runoff Depth>4.57"
Flow Length=1,638' Tc=44.5 min CN=92 Runoff=0.79 cfs 0.118 af

Subcatchment 134S: SUB 134 Runoff Area=5.320 ac Runoff Depth>4.27"
Flow Length=334' Tc=26.6 min CN=89 Runoff=16.35 cfs 1.893 af

Subcatchment 137.1S: SUB 137.1 Runoff Area=23.990 ac Runoff Depth>3.27"
Flow Length=1,401' Tc=95.0 min CN=80 Runoff=29.69 cfs 6.538 af

Subcatchment 137.2S: SUB 137.2 Runoff Area=2.780 ac Runoff Depth>3.54"
Flow Length=395' Tc=36.1 min CN=82 Runoff=6.39 cfs 0.820 af

Subcatchment 139S: SUB 139 Runoff Area=1.920 ac Runoff Depth>3.35"
Flow Length=228' Tc=24.1 min CN=80 Runoff=5.03 cfs 0.537 af

Subcatchment 145S: SUB 145 Runoff Area=1.590 ac Runoff Depth>3.65"
Flow Length=319' Tc=23.3 min CN=83 Runoff=4.56 cfs 0.484 af

Reach 197R: Unsurved Culvert. Used info fro Peak Depth=1.00' Max Vel=4.7 fps Inflow=3.88 cfs 0.819 af
D=12.0" n=0.010 L=60.0' S=0.0050 '/' Capacity=3.28 cfs Outflow=3.28 cfs 0.819 af

Reach 256R: Peak Depth=0.53' Max Vel=2.3 fps Inflow=13.66 cfs 9.815 af
n=0.040 L=363.0' S=0.0152 '/' Capacity=683.73 cfs Outflow=13.66 cfs 9.782 af

Reach 257R: Peak Depth=0.64' Max Vel=4.2 fps Inflow=33.35 cfs 2.522 af
n=0.040 L=187.0' S=0.0417 '/' Capacity=1,134.45 cfs Outflow=32.33 cfs 2.519 af

Reach 258R: Peak Depth=0.63' Max Vel=3.8 fps Inflow=29.65 cfs 6.537 af
n=0.040 L=157.0' S=0.0333 '/' Capacity=1,013.82 cfs Outflow=29.65 cfs 6.532 af

Reach 261R: Peak Depth=0.08' Max Vel=1.5 fps Inflow=0.79 cfs 0.118 af
n=0.040 L=211.0' S=0.0512 '/' Capacity=1,256.70 cfs Outflow=0.78 cfs 0.118 af

Reach 497R: Peak Depth=0.24' Max Vel=1.6 fps Inflow=3.28 cfs 0.819 af
n=0.040 L=244.0' S=0.0180 '/' Capacity=745.92 cfs Outflow=3.28 cfs 0.817 af

Reach 498R: Peak Depth=0.27' Max Vel=0.5 fps Inflow=3.28 cfs 0.817 af
n=0.080 L=345.0' S=0.0052 '/' Capacity=129.74 cfs Outflow=3.28 cfs 0.805 af

Reach 551R: Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.040 L=144.0' S=0.0014 '/' Capacity=207.01 cfs Outflow=0.00 cfs 0.000 af

Reach 552R: Peak Depth=1.74' Max Vel=0.5 fps Inflow=38.36 cfs 9.973 af
n=0.080 L=298.0' S=0.0007 '/' Capacity=46.53 cfs Outflow=35.22 cfs 9.864 af

Reach 553R: Peak Depth=0.85' Max Vel=2.8 fps Inflow=35.22 cfs 9.864 af
n=0.040 L=680.0' S=0.0135 '/' Capacity=646.10 cfs Outflow=35.13 cfs 9.817 af

Reach 554R: Possible Detention Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.080 L=833.0' S=0.0048 '/' Capacity=124.47 cfs Outflow=0.00 cfs 0.000 af

Reach 555R: Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.040 L=155.0' S=0.0381 '/' Capacity=143.22 cfs Outflow=0.00 cfs 0.000 af

Reach CR104: CUL-096 Peak Depth=1.00' Max Vel=5.6 fps Inflow=6.39 cfs 0.820 af
D=12.0" n=0.010 L=60.0' S=0.0070 '/' Capacity=3.88 cfs Outflow=3.88 cfs 0.819 af

Reach CR105: CUL-097 Peak Depth=1.22' Max Vel=10.9 fps Inflow=29.69 cfs 6.538 af
D=36.0" n=0.010 L=70.0' S=0.0096 '/' Capacity=84.83 cfs Outflow=29.65 cfs 6.537 af

Reach CR106: CUL-098 Peak Depth=1.00' Max Vel=1.3 fps Inflow=16.35 cfs 1.893 af
D=12.0" n=0.024 L=200.0' S=0.0023 '/' Capacity=0.92 cfs Outflow=0.97 cfs 0.874 af

Reach CR152: CUL-141 Peak Depth=1.61' Max Vel=3.5 fps Inflow=13.66 cfs 9.782 af
D=36.0" n=0.024 L=220.0' S=0.0045 '/' Capacity=24.36 cfs Outflow=13.66 cfs 9.759 af

Reach CR153: CUL-142 Peak Depth=1.50' Max Vel=8.8 fps Inflow=35.13 cfs 9.817 af
D=18.0" n=0.010 L=80.0' S=0.0100 '/' Capacity=13.66 cfs Outflow=13.66 cfs 9.815 af

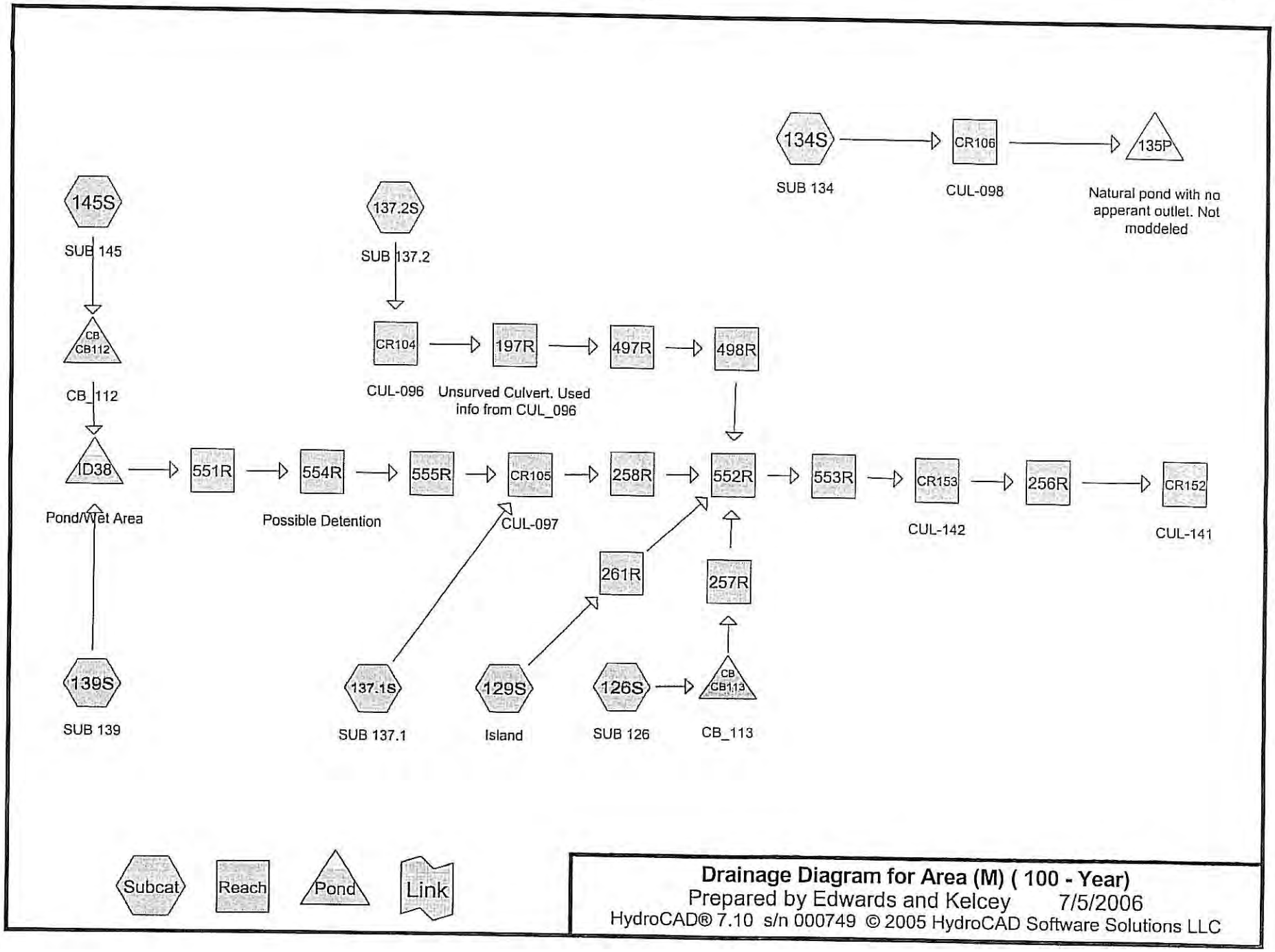
Pond 135P: Natural pond with no apperant outlet. Not moddeled Inflow=0.97 cfs 0.874 af
Primary=0.97 cfs 0.874 af

Pond CB112: CB_112 Peak Elev=37.39' Inflow=4.56 cfs 0.484 af
18.0" x 70.0' Culvert Outflow=4.56 cfs 0.484 af

Pond CB113: CB_113 Peak Elev=61.49' Inflow=33.35 cfs 2.522 af
15.0" x 100.0' Culvert Outflow=33.35 cfs 2.522 af

Pond ID38: Pond/Wet Area Peak Elev=33.27' Storage=1.020 af Inflow=9.60 cfs 1.021 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 41.790 ac Runoff Volume = 12.912 af Average Runoff Depth = 3.71"


134S
CR106
135P
SUB 134
CUL-098
Natural pond with no apperant outlet. Not moddeled
145S
SUB 145
137.2S
SUB 137.2
CB CB112
CB_112
CR104
197R
497R
498R
CUL-096
Unsurved Culvert. Used info from CUL_096
ID38
551R
554R
555R
CR105
258R
552R
553R
CR153
256R
CR152
Pond/Wet Area
Possible Detention
CUL-097
CUL-142
CUL-141
261R
257R
139S
SUB 139
137.1S
SUB 137.1
129S
Island
126S
SUB 126
CB CB113
CB_113
Subcat
Reach
Pond
Link
Drainage Diagram for Area (M) (100 - Year)
Prepared by Edwards and Kelcey 7/5/2006
HydroCAD® 7.10 s/n 000749 © 2005 HydroCAD Software Solutions LLC

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 126S: SUB 126 Runoff Area=5.880 ac Runoff Depth>5.87"
Flow Length=481' Tc=5.2 min CN=98 Runoff=37.99 cfs 2.878 af

Subcatchment 129S: Island Runoff Area=0.310 ac Runoff Depth>5.30"
Flow Length=1,638' Tc=44.5 min CN=92 Runoff=0.91 cfs 0.137 af

Subcatchment 134S: SUB 134 Runoff Area=5.320 ac Runoff Depth>5.00"
Flow Length=334' Tc=26.6 min CN=89 Runoff=19.00 cfs 2.218 af

Subcatchment 137.1S: SUB 137.1 Runoff Area=23.990 ac Runoff Depth>3.94"
Flow Length=1,401' Tc=95.0 min CN=80 Runoff=35.64 cfs 7.881 af

Subcatchment 137.2S: SUB 137.2 Runoff Area=2.780 ac Runoff Depth>4.24"
Flow Length=395' Tc=36.1 min CN=82 Runoff=7.59 cfs 0.981 af

Subcatchment 139S: SUB 139 Runoff Area=1.920 ac Runoff Depth>4.04"
Flow Length=228' Tc=24.1 min CN=80 Runoff=6.02 cfs 0.646 af

Subcatchment 145S: SUB 145 Runoff Area=1.590 ac Runoff Depth>4.36"
Flow Length=319' Tc=23.3 min CN=83 Runoff=5.41 cfs 0.577 af

Reach 197R: Unsurved Culvert. Used info fro Peak Depth=1.00' Max Vel=4.7 fps Inflow=3.88 cfs 0.981 af
D=12.0" n=0.010 L=60.0' S=0.0050 '/' Capacity=3.28 cfs Outflow=3.28 cfs 0.981 af

Reach 256R: Peak Depth=0.53' Max Vel=2.3 fps Inflow=13.66 cfs 10.203 af
n=0.040 L=363.0' S=0.0152 '/' Capacity=683.73 cfs Outflow=13.66 cfs 10.104 af

Reach 257R: Peak Depth=0.68' Max Vel=4.4 fps Inflow=37.99 cfs 2.878 af
n=0.040 L=187.0' S=0.0417 '/' Capacity=1,134.45 cfs Outflow=36.87 cfs 2.875 af

Reach 258R: Peak Depth=0.69' Max Vel=4.0 fps Inflow=35.63 cfs 7.880 af
n=0.040 L=157.0' S=0.0333 '/' Capacity=1,013.82 cfs Outflow=35.59 cfs 7.874 af

Reach 261R: Peak Depth=0.09' Max Vel=1.5 fps Inflow=0.91 cfs 0.137 af
n=0.040 L=211.0' S=0.0512 '/' Capacity=1,256.70 cfs Outflow=0.90 cfs 0.137 af

Reach 497R: Peak Depth=0.24' Max Vel=1.6 fps Inflow=3.28 cfs 0.981 af
n=0.040 L=244.0' S=0.0180 '/' Capacity=745.92 cfs Outflow=3.28 cfs 0.978 af

Reach 498R: Peak Depth=0.27' Max Vel=0.5 fps Inflow=3.28 cfs 0.978 af
n=0.080 L=345.0' S=0.0052 '/' Capacity=129.74 cfs Outflow=3.28 cfs 0.964 af

Reach 551R: Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.040 L=144.0' S=0.0014 '/' Capacity=207.01 cfs Outflow=0.00 cfs 0.000 af

Reach 552R: Peak Depth=1.89' Max Vel=0.6 fps Inflow=44.52 cfs 11.850 af
n=0.080 L=298.0' S=0.0007 '/' Capacity=46.53 cfs Outflow=41.50 cfs 11.730 af

Reach 553R: Peak Depth=0.92' Max Vel=3.0 fps Inflow=41.50 cfs 11.730 af
n=0.040 L=680.0' S=0.0135 '/' Capacity=646.10 cfs Outflow=41.41 cfs 11.678 af

Reach 554R: Possible Detention Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.080 L=833.0' S=0.0048 '/' Capacity=124.47 cfs Outflow=0.00 cfs 0.000 af

Reach 555R: Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.040 L=155.0' S=0.0381 '/' Capacity=143.22 cfs Outflow=0.00 cfs 0.000 af

Reach CR104: CUL-096 Peak Depth=1.00' Max Vel=5.6 fps Inflow=7.59 cfs 0.981 af
D=12.0" n=0.010 L=60.0' S=0.0070 '/' Capacity=3.88 cfs Outflow=3.88 cfs 0.981 af

Reach CR105: CUL-097 Peak Depth=1.36' Max Vel=11.5 fps Inflow=35.64 cfs 7.881 af
D=36.0" n=0.010 L=70.0' S=0.0096 '/' Capacity=84.83 cfs Outflow=35.63 cfs 7.880 af

Reach CR106: CUL-098 Peak Depth=1.00' Max Vel=1.3 fps Inflow=19.00 cfs 2.218 af
D=12.0" n=0.024 L=200.0' S=0.0023 '/' Capacity=0.92 cfs Outflow=0.98 cfs 0.910 af

Reach CR152: CUL-141 Peak Depth=1.61' Max Vel=3.5 fps Inflow=13.66 cfs 10.104 af
D=36.0" n=0.024 L=220.0' S=0.0045 '/' Capacity=24.36 cfs Outflow=13.66 cfs 10.065 af

Reach CR153: CUL-142 Peak Depth=1.50' Max Vel=8.8 fps Inflow=41.41 cfs 11.678 af
D=18.0" n=0.010 L=80.0' S=0.0100 '/' Capacity=13.66 cfs Outflow=13.66 cfs 10.203 af

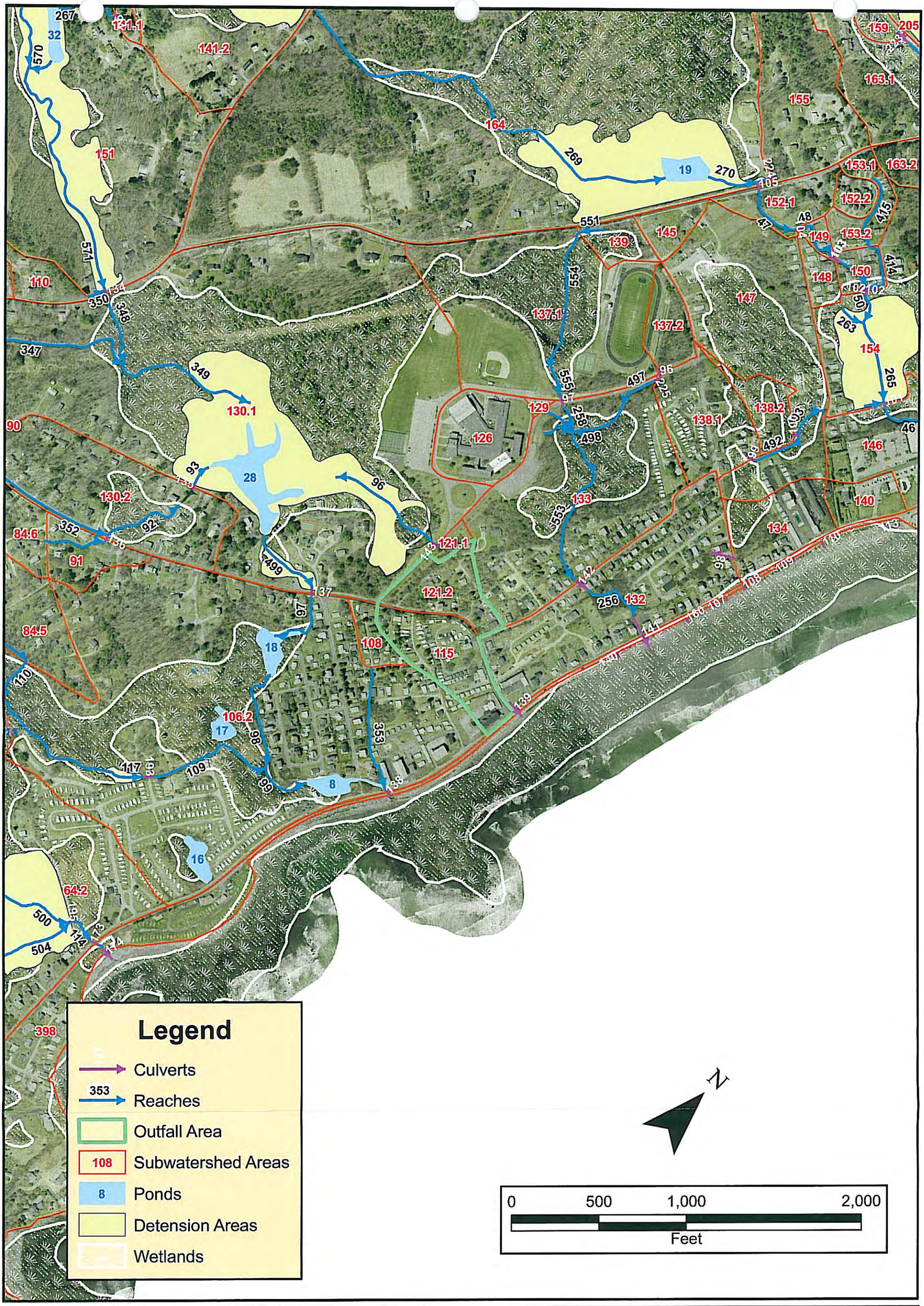
Pond 135P: Natural pond with no apperant outlet. Not moddeled Inflow=0.98 cfs 0.910 af
Primary=0.98 cfs 0.910 af

Pond CB112: CB_112 Peak Elev=37.85' Inflow=5.41 cfs 0.577 af
18.0" x 70.0' Culvert Outflow=5.41 cfs 0.577 af

Pond CB113: CB_113 Peak Elev=69.45' Inflow=37.99 cfs 2.878 af
15.0" x 100.0' Culvert Outflow=37.99 cfs 2.878 af

Pond ID38: Pond/Wet Area Peak Elev=33.60' Storage=1.223 af Inflow=11.44 cfs 1.224 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 41.790 ac Runoff Volume = 15.320 af Average Runoff Depth = 4.40"



DRAWN BY: **CJK**	DATE: **MAY 31, 2006**
CHECKED BY: **SJB**	PROJECT: **060057018**

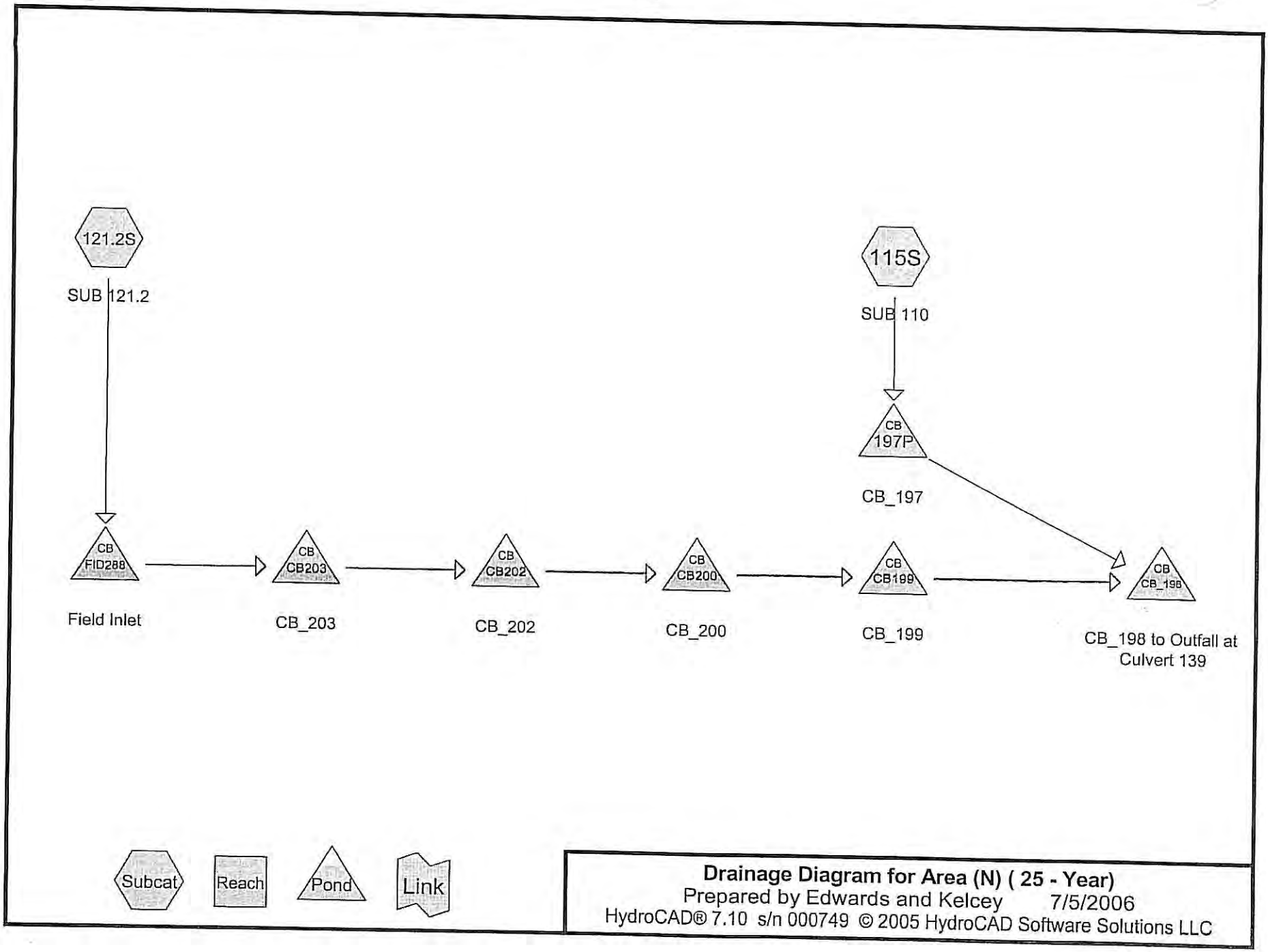
OUTFALL "N"

Data Sources:
Town of York
Maine Office of GIS

Edwards AND Kelcey
ENGINEERS
ARCHITECTS
PLANNERS
CONSTRUCTORS
222 St. John Street Suite 314
Portland, Maine 04102
Tel. (207) 828-1272 Fax (207) 774-6907
www.ekcorp.com

YORK WATERSHED MANAGEMENT
TOWN OF YORK, MAINE

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Drainage Diagram for Area (N) (25 - Year)
Prepared by Edwards and Kelcey 7/5/2006
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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 115S: SUB 110 Runoff Area=4.760 ac Runoff Depth>3.71"
Flow Length=365' Tc=18.4 min CN=87 Runoff=15.04 cfs 1.471 af

Subcatchment 121.2S: SUB 121.2 Runoff Area=4.180 ac Runoff Depth>3.39"
Flow Length=414' Tc=34.4 min CN=84 Runoff=9.38 cfs 1.181 af

Pond 197P: CB_197 Peak Elev=19.17' Inflow=15.04 cfs 1.471 af
15.0" x 40.0' Culvert Outflow=15.04 cfs 1.471 af

Pond CB199: CB_199 Peak Elev=9.85' Inflow=9.38 cfs 1.181 af
24.0" x 125.0' Culvert Outflow=9.38 cfs 1.181 af

Pond CB200: CB_200 Peak Elev=11.56' Inflow=9.38 cfs 1.181 af
24.0" x 130.0' Culvert Outflow=9.38 cfs 1.181 af

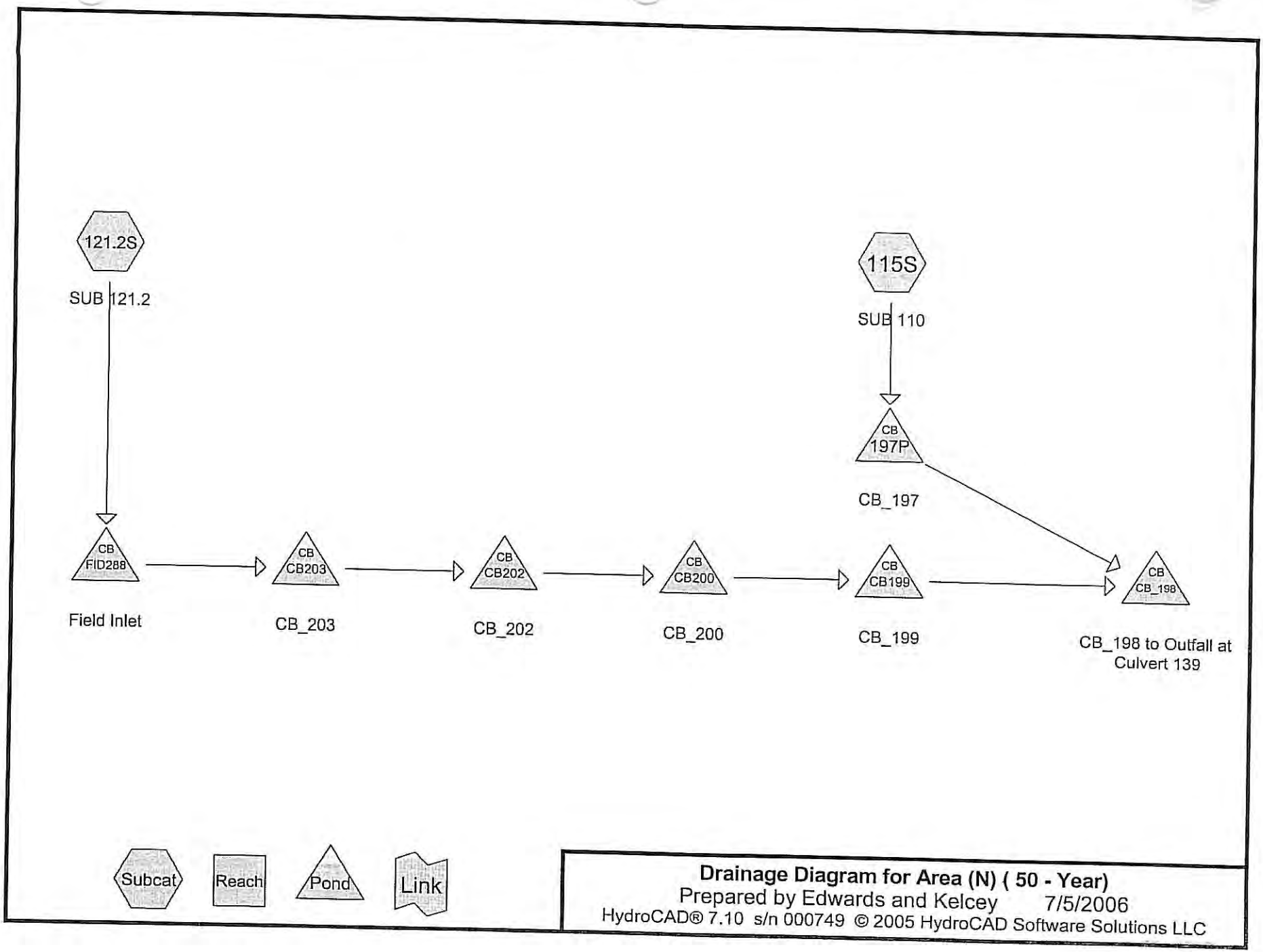
Pond CB202: CB_202 Peak Elev=26.67' Inflow=9.38 cfs 1.181 af
15.0" x 195.0' Culvert Outflow=9.38 cfs 1.181 af

Pond CB203: CB_203 Peak Elev=24.54' Inflow=9.38 cfs 1.181 af
15.0" x 110.0' Culvert Outflow=9.38 cfs 1.181 af

Pond CB_198: CB_198 to Outfall at Culvert 139 Peak Elev=9.33' Inflow=22.20 cfs 2.652 af
30.0" x 120.0' Culvert Outflow=22.20 cfs 2.652 af

Pond FID288: Field Inlet Peak Elev=23.15' Inflow=9.38 cfs 1.181 af
15.0" x 60.0' Culvert Outflow=9.38 cfs 1.181 af

Total Runoff Area = 8.940 ac Runoff Volume = 2.652 af Average Runoff Depth = 3.56"



Drainage Diagram for Area (N) (50 - Year)
Prepared by Edwards and Kelcey 7/5/2006
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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 115S: SUB 110 Runoff Area=4.760 ac Runoff Depth>4.07"
Flow Length=365' Tc=18.4 min CN=87 Runoff=16.43 cfs 1.614 af

Subcatchment 121.2S: SUB 121.2 Runoff Area=4.180 ac Runoff Depth>3.74"
Flow Length=414' Tc=34.4 min CN=84 Runoff=10.31 cfs 1.303 af

Pond 197P: CB_197 Peak Elev=21.28' Inflow=16.43 cfs 1.614 af
15.0" x 40.0' Culvert Outflow=16.43 cfs 1.614 af

Pond CB199: CB_199 Peak Elev=9.98' Inflow=10.31 cfs 1.303 af
24.0" x 125.0' Culvert Outflow=10.31 cfs 1.303 af

Pond CB200: CB_200 Peak Elev=11.66' Inflow=10.31 cfs 1.303 af
24.0" x 130.0' Culvert Outflow=10.31 cfs 1.303 af

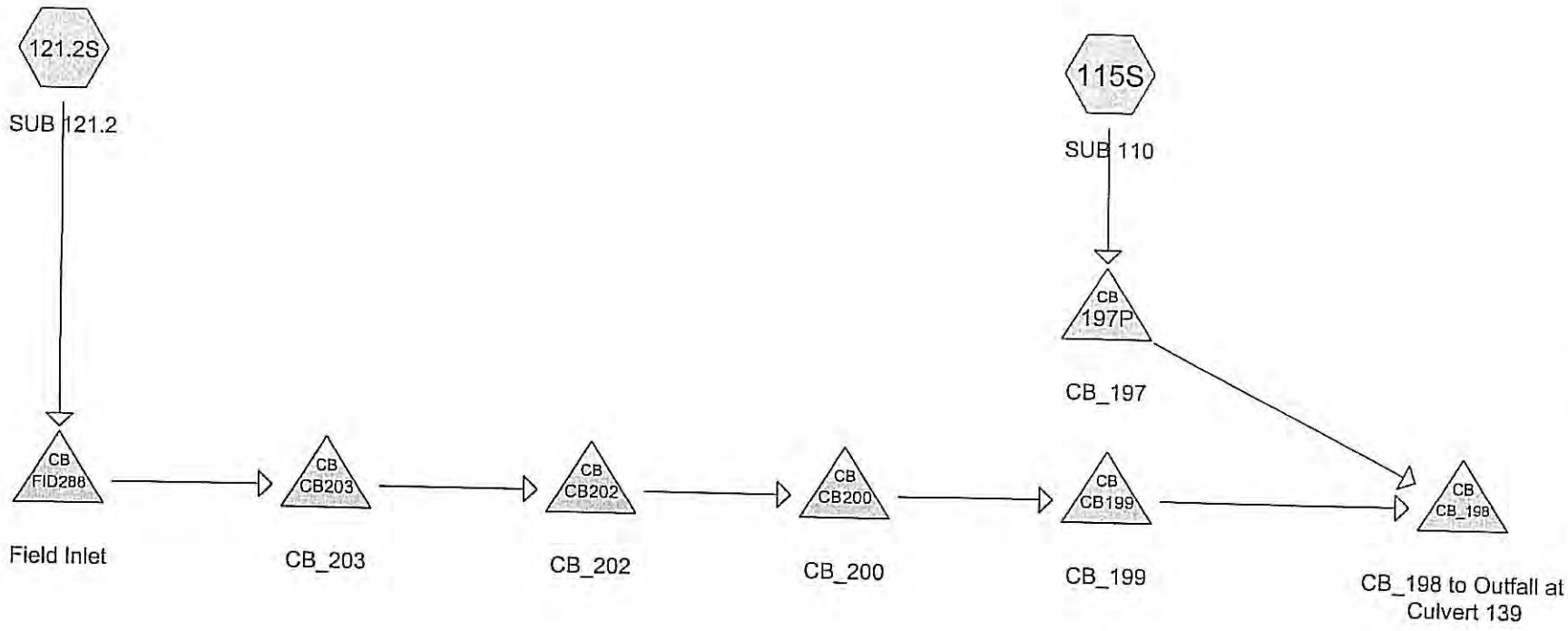
Pond CB202: CB_202 Peak Elev=29.89' Inflow=10.31 cfs 1.303 af
15.0" x 195.0' Culvert Outflow=10.31 cfs 1.303 af

Pond CB203: CB_203 Peak Elev=26.48' Inflow=10.31 cfs 1.303 af
15.0" x 110.0' Culvert Outflow=10.31 cfs 1.303 af

Pond CB_198: CB_198 to Outfall at Culvert 139 Peak Elev=9.50' Inflow=24.32 cfs 2.917 af
30.0" x 120.0' Culvert Outflow=24.32 cfs 2.917 af

Pond FID288: Field Inlet Peak Elev=23.67' Inflow=10.31 cfs 1.303 af
15.0" x 60.0' Culvert Outflow=10.31 cfs 1.303 af

Total Runoff Area = 8.940 ac Runoff Volume = 2.917 af Average Runoff Depth = 3.92"



Subcat Reach Pond Link

Drainage Diagram for Area (N) (100 - Year)
Prepared by Edwards and Kelcey 7/5/2006
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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 115S: SUB 110 Runoff Area=4.760 ac Runoff Depth>4.80"
Flow Length=365' Tc=18.4 min CN=87 Runoff=19.21 cfs 1.903 af

Subcatchment 121.2S: SUB 121.2 Runoff Area=4.180 ac Runoff Depth>4.45"
Flow Length=414' Tc=34.4 min CN=84 Runoff=12.18 cfs 1.550 af

Pond 197P: CB_197 Peak Elev=26.05' Inflow=19.21 cfs 1.903 af
15.0" x 40.0' Culvert Outflow=19.21 cfs 1.903 af

Pond CB199: CB_199 Peak Elev=10.29' Inflow=12.18 cfs 1.550 af
24.0" x 125.0' Culvert Outflow=12.18 cfs 1.550 af

Pond CB200: CB_200 Peak Elev=11.87' Inflow=12.18 cfs 1.550 af
24.0" x 130.0' Culvert Outflow=12.18 cfs 1.550 af

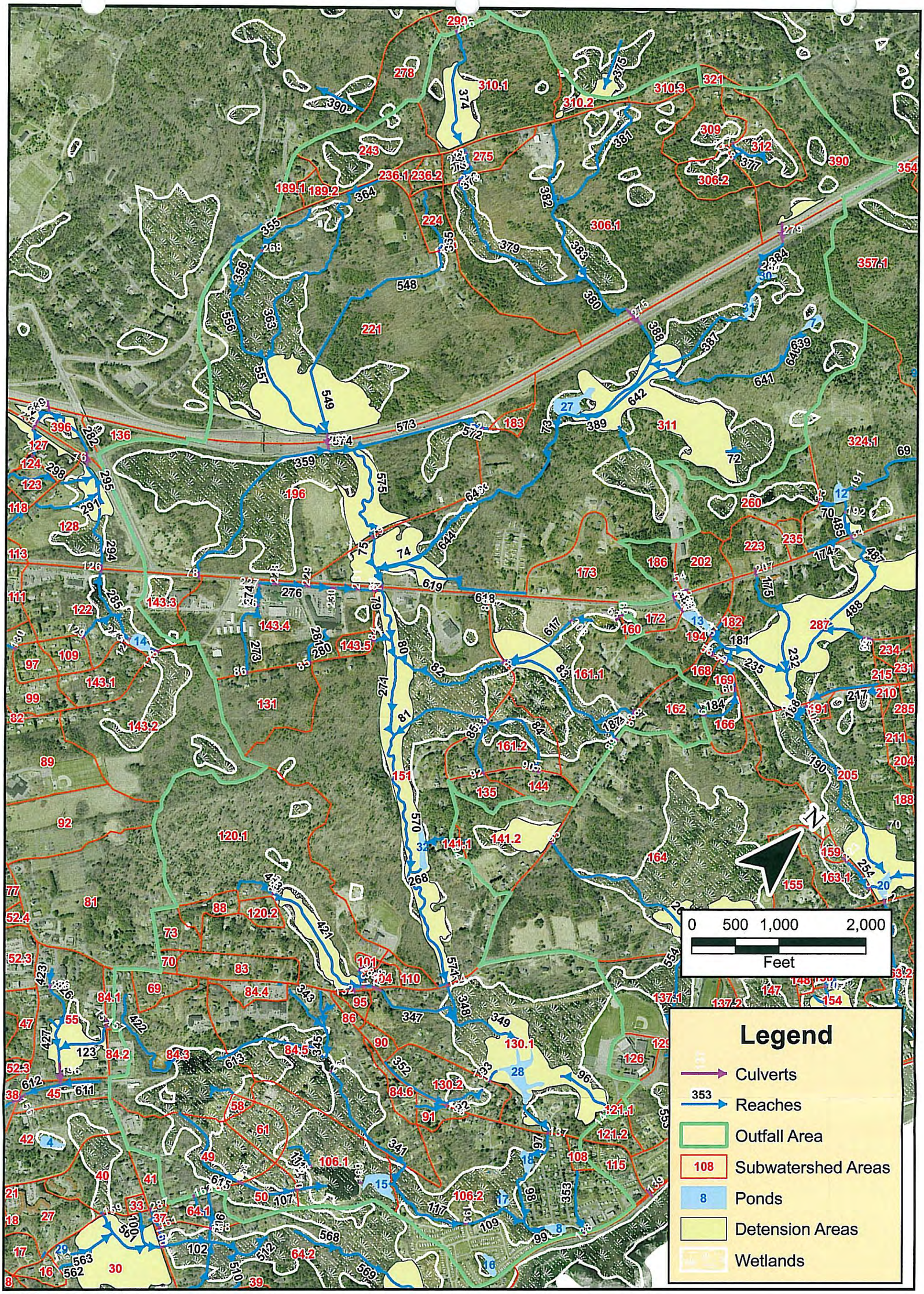
Pond CB202: CB_202 Peak Elev=37.24' Inflow=12.18 cfs 1.550 af
15.0" x 195.0' Culvert Outflow=12.18 cfs 1.550 af

Pond CB203: CB_203 Peak Elev=30.91' Inflow=12.18 cfs 1.550 af
15.0" x 110.0' Culvert Outflow=12.18 cfs 1.550 af

Pond CB_198: CB_198 to Outfall at Culvert 139 Peak Elev=9.91' Inflow=28.57 cfs 3.453 af
30.0" x 120.0' Culvert Outflow=28.57 cfs 3.453 af

Pond FID288: Field Inlet Peak Elev=25.83' Inflow=12.18 cfs 1.550 af
15.0" x 60.0' Culvert Outflow=12.18 cfs 1.550 af

Total Runoff Area = 8.940 ac Runoff Volume = 3.453 af Average Runoff Depth = 4.64"



DRAWN BY: CJK	DATE: MAY 31, 2006
CHECKED BY: SJB	PROJECT: 060057018

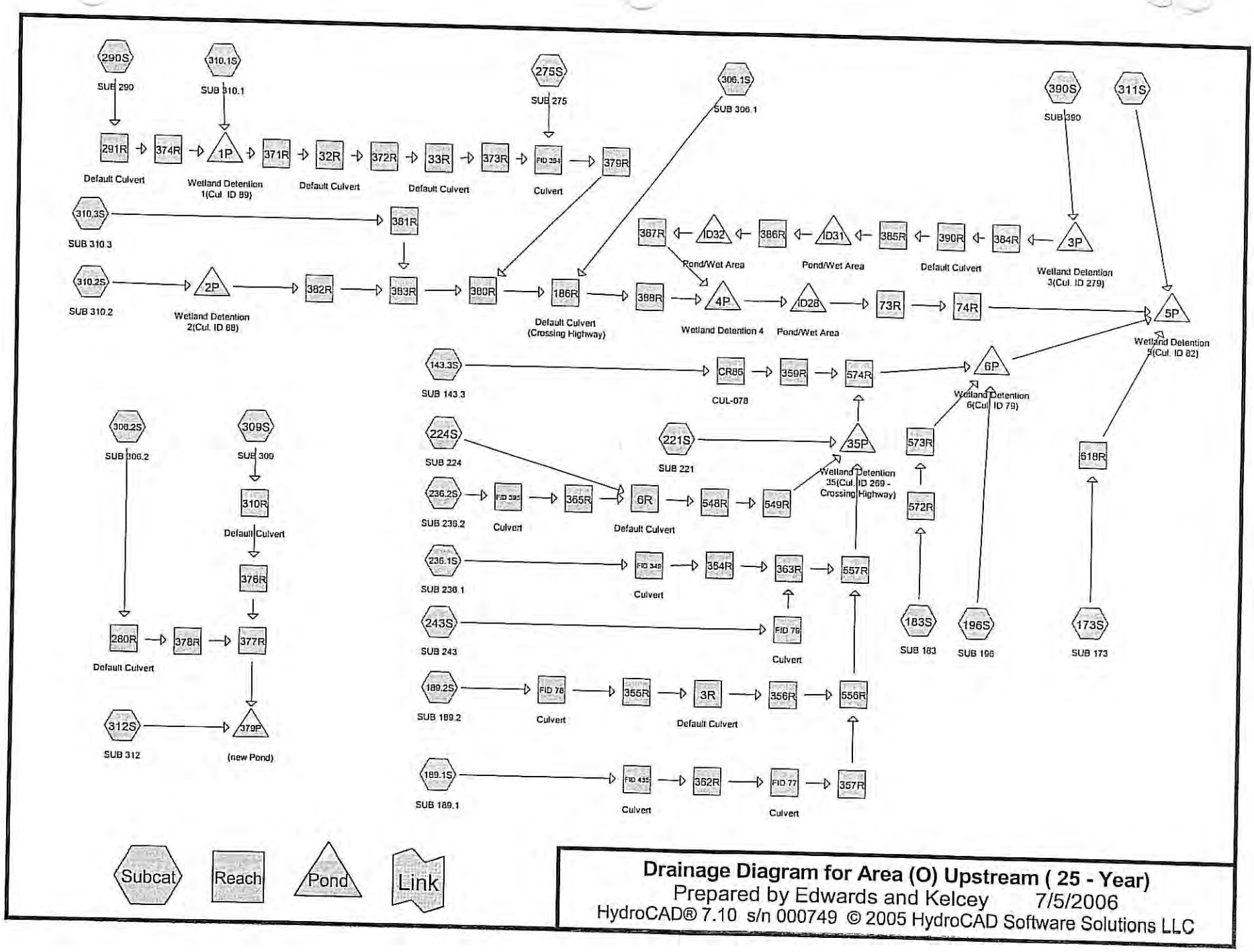
OUTFALL "O"

Data Sources:
Town of York
Maine Office of GIS

Edwards AND Kelcey
ENGINEERS
ARCHITECTS
PLANNERS
CONSTRUCTORS
222 St. John Street Suite 314
Portland, Maine 04102
Tel. (207) 828-1272 Fax (207) 774-6907
www.ekcorp.com

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TOWN OF YORK, MAINE

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Drainage Diagram for Area (O) Upstream (25 - Year)

Prepared by Edwards and Kelcey 7/5/2006

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 143.3S: SUB 143.3 Runoff Area=7.890 ac Runoff Depth>2.06"
Flow Length=647' Tc=27.7 min CN=69 Runoff=11.97 cfs 1.354 af

Subcatchment 173S: SUB 173 Runoff Area=14.440 ac Runoff Depth>3.29"
Flow Length=2,468' Tc=36.1 min CN=83 Runoff=30.86 cfs 3.960 af

Subcatchment 183S: SUB 183 Runoff Area=1.620 ac Runoff Depth>2.82"
Flow Length=556' Tc=32.9 min CN=78 Runoff=3.14 cfs 0.381 af

Subcatchment 189.1S: SUB 189.1 Runoff Area=3.620 ac Runoff Depth>3.11"
Flow Length=458' Tc=27.7 min CN=81 Runoff=8.28 cfs 0.938 af

Subcatchment 189.2S: SUB 189.2 Runoff Area=2.490 ac Runoff Depth>3.12"
Flow Length=336' Tc=17.6 min CN=81 Runoff=6.89 cfs 0.647 af

Subcatchment 196S: SUB 196 Runoff Area=131.310 ac Runoff Depth>2.43"
Flow Length=4,344' Tc=78.7 min CN=74 Runoff=136.52 cfs 26.542 af

Subcatchment 221S: SUB 221 Runoff Area=188.820 ac Runoff Depth>2.55"
Flow Length=3,652' Tc=118.9 min CN=76 Runoff=159.73 cfs 40.158 af

Subcatchment 224S: SUB 224 Runoff Area=5.760 ac Runoff Depth>1.03"
Flow Length=802' Tc=59.1 min CN=55 Runoff=2.67 cfs 0.495 af

Subcatchment 236.1S: SUB 236.1 Runoff Area=1.670 ac Runoff Depth>1.05"
Flow Length=335' Tc=29.4 min CN=55 Runoff=1.12 cfs 0.146 af

Subcatchment 236.2S: SUB 236.2 Runoff Area=2.840 ac Runoff Depth>0.59"
Flow Length=490' Tc=22.7 min CN=47 Runoff=0.92 cfs 0.139 af

Subcatchment 243S: SUB 243 Runoff Area=12.660 ac Runoff Depth>1.59"
Flow Length=1,175' Tc=35.7 min CN=63 Runoff=12.93 cfs 1.679 af

Subcatchment 275S: SUB 275 Runoff Area=7.180 ac Runoff Depth>0.80"
Flow Length=882' Tc=34.5 min CN=51 Runoff=3.15 cfs 0.481 af

Subcatchment 290S: SUB 290 Runoff Area=3.320 ac Runoff Depth>3.02"
Flow Length=387' Tc=26.1 min CN=80 Runoff=7.58 cfs 0.834 af

Subcatchment 306.1S: SUB 306.1 Runoff Area=138.220 ac Runoff Depth>2.64"
Flow Length=2,541' Tc=41.3 min CN=76 Runoff=224.66 cfs 30.375 af

Subcatchment 306.2S: SUB 306.2 Runoff Area=7.450 ac Runoff Depth>2.81"
Flow Length=630' Tc=43.6 min CN=78 Runoff=12.54 cfs 1.747 af

Subcatchment 309S: SUB 309 Runoff Area=11.560 ac Runoff Depth>2.90"
Flow Length=817' Tc=47.5 min CN=79 Runoff=19.17 cfs 2.795 af

Subcatchment 310.1S: SUB 310.1 Runoff Area=42.120 ac Runoff Depth>2.47"
Flow Length=1,913' Tc=32.4 min CN=74 Runoff=72.00 cfs 8.673 af

Subcatchment 310.2S: SUB 310.2 Runoff Area=4.160 ac Runoff Depth>2.83"
Flow Length=656' Tc=32.1 min CN=78 Runoff=8.16 cfs 0.980 af

Subcatchment 310.3S: SUB 310.3 Runoff Area=4.230 ac Runoff Depth>3.01"
Flow Length=735' Tc=36.0 min CN=80 Runoff=8.34 cfs 1.060 af

Subcatchment 311S: Runoff Area=238.460 ac Runoff Depth>2.69"
Flow Length=6,624' Tc=80.4 min CN=77 Runoff=270.83 cfs 53.364 af

Subcatchment 312S: SUB 312 Runoff Area=6.320 ac Runoff Depth>3.09"
Flow Length=950' Tc=40.9 min CN=81 Runoff=12.02 cfs 1.630 af

Subcatchment 390S: SUB 390 Runoff Area=25.140 ac Runoff Depth>2.82"
Flow Length=1,448' Tc=34.2 min CN=78 Runoff=47.82 cfs 5.915 af

Reach 3R: Default Culvert Peak Depth=0.58' Max Vel=6.8 fps Inflow=6.60 cfs 0.643 af
D=36.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=79.72 cfs Outflow=6.58 cfs 0.643 af

Reach 6R: Default Culvert Peak Depth=0.42' Max Vel=5.6 fps Inflow=3.38 cfs 0.628 af
D=36.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=79.72 cfs Outflow=3.38 cfs 0.628 af

Reach 32R: Default Culvert Peak Depth=1.07' Max Vel=8.0 fps Inflow=10.74 cfs 7.412 af
D=18.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=12.56 cfs Outflow=10.74 cfs 7.408 af

Reach 33R: Default Culvert Peak Depth=1.07' Max Vel=8.0 fps Inflow=10.74 cfs 7.394 af
D=18.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=12.56 cfs Outflow=10.74 cfs 7.390 af

Reach 73R: Peak Depth=1.58' Max Vel=7.0 fps Inflow=315.10 cfs 32.415 af
n=0.040 L=574.0' S=0.0401 '/' Capacity=1,111.90 cfs Outflow=222.29 cfs 32.253 af

Reach 74R: Peak Depth=1.65' Max Vel=4.6 fps Inflow=222.29 cfs 32.253 af
n=0.040 L=2,525.0' S=0.0162 '/' Capacity=707.82 cfs Outflow=168.86 cfs 31.499 af

Reach 186R: Default Culvert (Crossing H Peak Depth=3.23' Max Vel=17.4 fps Inflow=232.88 cfs 39.375 af
D=60.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=311.29 cfs Outflow=232.83 cfs 39.369 af

Reach 280R: Default Culvert Peak Depth=0.65' Max Vel=11.1 fps Inflow=12.54 cfs 1.747 af
D=36.0" n=0.013 L=30.0' S=0.0333 '/' Capacity=121.77 cfs Outflow=12.54 cfs 1.747 af

Reach 291R: Default Culvert Peak Depth=0.62' Max Vel=7.1 fps Inflow=7.58 cfs 0.834 af
D=36.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=79.72 cfs Outflow=7.57 cfs 0.834 af

Reach 310R: Default Culvert Peak Depth=0.87' Max Vel=11.3 fps Inflow=19.17 cfs 2.795 af
D=36.0" n=0.013 L=40.0' S=0.0250 '/' Capacity=105.46 cfs Outflow=19.17 cfs 2.795 af

Reach 355R: Peak Depth=0.24' Max Vel=3.4 fps Inflow=6.89 cfs 0.647 af
n=0.035 L=773.0' S=0.0595 '/' Capacity=1,548.60 cfs Outflow=6.60 cfs 0.643 af

Reach 356R: Peak Depth=0.30' Max Vel=2.3 fps Inflow=6.58 cfs 0.643 af
n=0.040 L=634.0' S=0.0276 '/' Capacity=922.86 cfs Outflow=6.26 cfs 0.638 af

Reach 357R: Peak Depth=0.40' Max Vel=2.0 fps Inflow=8.23 cfs 0.936 af
n=0.040 L=565.0' S=0.0150 '/' Capacity=681.31 cfs Outflow=7.98 cfs 0.930 af

Reach 359R: Peak Depth=0.50' Max Vel=1.5 fps Inflow=11.95 cfs 1.353 af
n=0.040 L=2,344.0' S=0.0071 '/' Capacity=469.28 cfs Outflow=8.38 cfs 1.297 af

Reach 362R: Peak Depth=0.50' Max Vel=6.6 fps Inflow=8.28 cfs 0.938 af
n=0.030 L=426.0' S=0.0775 '/' Capacity=156.98 cfs Outflow=8.24 cfs 0.936 af

Reach 363R: Peak Depth=0.41' Max Vel=3.0 fps Inflow=14.02 cfs 1.824 af
n=0.040 L=2,571.0' S=0.0331 '/' Capacity=1,009.99 cfs Outflow=12.10 cfs 1.775 af

Reach 364R: Peak Depth=0.22' Max Vel=2.4 fps Inflow=1.12 cfs 0.146 af
n=0.030 L=497.0' S=0.0262 '/' Capacity=124.94 cfs Outflow=1.10 cfs 0.145 af

Reach 365R: Peak Depth=0.13' Max Vel=0.8 fps Inflow=0.92 cfs 0.139 af
n=0.040 L=769.0' S=0.0078 '/' Capacity=490.65 cfs Outflow=0.72 cfs 0.134 af

Reach 371R: Peak Depth=0.41' Max Vel=5.1 fps Inflow=10.74 cfs 7.415 af
n=0.035 L=31.0' S=0.0645 '/' Capacity=598.51 cfs Outflow=10.74 cfs 7.412 af

Reach 372R: Peak Depth=0.53' Max Vel=3.7 fps Inflow=10.74 cfs 7.408 af
n=0.035 L=120.0' S=0.0250 '/' Capacity=372.57 cfs Outflow=10.74 cfs 7.394 af

Reach 373R: Peak Depth=0.84' Max Vel=2.0 fps Inflow=10.74 cfs 7.390 af
n=0.035 L=228.0' S=0.0044 '/' Capacity=156.05 cfs Outflow=10.74 cfs 7.338 af

Reach 374R: Peak Depth=0.43' Max Vel=1.3 fps Inflow=7.57 cfs 0.834 af
n=0.050 L=1,405.0' S=0.0100 '/' Capacity=443.58 cfs Outflow=6.02 cfs 0.813 af

Reach 376R: Peak Depth=0.64' Max Vel=2.4 fps Inflow=19.17 cfs 2.795 af
n=0.040 L=151.0' S=0.0132 '/' Capacity=639.27 cfs Outflow=19.12 cfs 2.791 af

Reach 377R: Peak Depth=1.10' Max Vel=1.7 fps Inflow=31.59 cfs 4.534 af
n=0.040 L=340.0' S=0.0035 '/' Capacity=330.00 cfs Outflow=31.35 cfs 4.514 af

Reach 378R: Peak Depth=0.60' Max Vel=1.7 fps Inflow=12.54 cfs 1.747 af
n=0.040 L=135.0' S=0.0074 '/' Capacity=478.07 cfs Outflow=12.51 cfs 1.744 af

Reach 379R: Peak Depth=0.54' Max Vel=2.0 fps Inflow=12.72 cfs 7.818 af
n=0.050 L=2,172.0' S=0.0173 '/' Capacity=583.90 cfs Outflow=12.19 cfs 7.309 af

Reach 380R: Peak Depth=0.83' Max Vel=1.8 fps Inflow=21.11 cfs 9.197 af
n=0.040 L=645.0' S=0.0054 '/' Capacity=409.18 cfs Outflow=20.89 cfs 9.000 af

Reach 381R: Peak Depth=0.30' Max Vel=2.8 fps Inflow=8.34 cfs 1.060 af
n=0.040 L=1,658.0' S=0.0422 '/' Capacity=1,141.34 cfs Outflow=7.77 cfs 1.044 af

Reach 382R: Peak Depth=0.15' Max Vel=2.3 fps Inflow=2.59 cfs 0.881 af
n=0.040 L=986.0' S=0.0609 '/' Capacity=1,370.24 cfs Outflow=2.58 cfs 0.869 af

Reach 383R: Peak Depth=0.42' Max Vel=2.2 fps Inflow=9.73 cfs 1.913 af
n=0.040 L=1,006.0' S=0.0184 '/' Capacity=753.26 cfs Outflow=9.39 cfs 1.888 af

Reach 384R: Peak Depth=1.68' Max Vel=4.2 fps Inflow=39.52 cfs 5.857 af
n=0.030 L=390.0' S=0.0077 '/' Capacity=140.05 cfs Outflow=37.22 cfs 5.845 af

Reach 385R: Peak Depth=0.97' Max Vel=9.7 fps Inflow=37.17 cfs 5.844 af
n=0.030 L=94.0' S=0.0745 '/' Capacity=435.76 cfs Outflow=37.07 cfs 5.842 af

Reach 386R: Peak Depth=0.63' Max Vel=4.9 fps Inflow=53.47 cfs 4.498 af
n=0.040 L=272.0' S=0.0551 '/' Capacity=1,304.43 cfs Outflow=36.63 cfs 4.487 af

Reach 387R: Peak Depth=0.66' Max Vel=2.4 fps Inflow=29.88 cfs 3.153 af
n=0.040 L=1,398.0' S=0.0125 '/' Capacity=621.48 cfs Outflow=19.52 cfs 3.085 af

Reach 388R: Peak Depth=1.81' Max Vel=5.4 fps Inflow=232.83 cfs 39.369 af
n=0.035 L=489.0' S=0.0153 '/' Capacity=786.19 cfs Outflow=231.93 cfs 39.250 af

Reach 390R: Default Culvert Peak Depth=1.44' Max Vel=11.1 fps Inflow=37.22 cfs 5.845 af
D=36.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=79.72 cfs Outflow=37.17 cfs 5.844 af

Reach 548R: Peak Depth=0.17' Max Vel=2.5 fps Inflow=3.38 cfs 0.628 af
n=0.040 L=1,194.0' S=0.0628 '/' Capacity=1,392.16 cfs Outflow=3.28 cfs 0.617 af

Reach 549R: Peak Depth=0.22' Max Vel=1.6 fps Inflow=3.28 cfs 0.617 af
n=0.040 L=1,811.0' S=0.0182 '/' Capacity=749.82 cfs Outflow=2.82 cfs 0.590 af

Reach 556R: Peak Depth=0.59' Max Vel=1.8 fps Inflow=14.10 cfs 1.568 af
n=0.040 L=945.0' S=0.0085 '/' Capacity=511.08 cfs Outflow=12.92 cfs 1.549 af

Reach 557R: Peak Depth=0.91' Max Vel=1.6 fps Inflow=23.97 cfs 3.324 af
n=0.040 L=1,192.0' S=0.0038 '/' Capacity=341.29 cfs Outflow=21.48 cfs 3.255 af

Reach 572R: Peak Depth=0.18' Max Vel=2.2 fps Inflow=3.14 cfs 0.381 af
n=0.035 L=344.0' S=0.0349 '/' Capacity=1,185.67 cfs Outflow=3.12 cfs 0.380 af

Reach 573R: Peak Depth=0.34' Max Vel=2.9 fps Inflow=3.12 cfs 0.380 af
n=0.030 L=1,297.0' S=0.0216 '/' Capacity=123.50 cfs Outflow=2.96 cfs 0.375 af

Reach 574R: Peak Depth=2.71' Max Vel=3.4 fps Inflow=86.88 cfs 41.466 af
n=0.030 L=312.0' S=0.0032 '/' Capacity=47.59 cfs Outflow=86.87 cfs 41.297 af

Reach 618R: Peak Depth=1.12' Max Vel=5.1 fps Inflow=30.86 cfs 3.960 af
n=0.035 L=952.0' S=0.0252 '/' Capacity=114.39 cfs Outflow=30.60 cfs 3.945 af

Reach CR86: CUL-078 Peak Depth=1.37' Max Vel=5.2 fps Inflow=11.97 cfs 1.354 af
D=24.0" n=0.025 L=80.0' S=0.0156 '/' Capacity=14.70 cfs Outflow=11.95 cfs 1.353 af

Reach FID 349: Culvert Peak Depth=0.28' Max Vel=5.3 fps Inflow=1.12 cfs 0.146 af
D=15.0" n=0.013 L=43.0' S=0.0233 '/' Capacity=9.85 cfs Outflow=1.12 cfs 0.146 af

Reach FID 394: Culvert Peak Depth=0.76' Max Vel=11.6 fps Inflow=12.72 cfs 7.819 af
D=24.0" n=0.013 L=30.0' S=0.0333 '/' Capacity=41.30 cfs Outflow=12.72 cfs 7.818 af

Reach FID 395: Culvert Peak Depth=0.21' Max Vel=5.4 fps Inflow=0.92 cfs 0.139 af
D=24.0" n=0.013 L=30.0' S=0.0333 '/' Capacity=41.30 cfs Outflow=0.92 cfs 0.139 af

Reach FID 435: Culvert Peak Depth=0.89' Max Vel=8.9 fps Inflow=8.28 cfs 0.938 af
D=15.0" n=0.013 L=44.0' S=0.0227 '/' Capacity=9.74 cfs Outflow=8.28 cfs 0.938 af

Reach FID 77: Culvert Peak Depth=0.89' Max Vel=8.8 fps Inflow=8.24 cfs 0.936 af
D=15.0" n=0.013 L=45.0' S=0.0222 '/' Capacity=9.63 cfs Outflow=8.23 cfs 0.936 af

Reach FID 78: Culvert Peak Depth=0.69' Max Vel=10.0 fps Inflow=6.89 cfs 0.647 af
D=15.0" n=0.013 L=30.0' S=0.0333 '/' Capacity=11.79 cfs Outflow=6.89 cfs 0.647 af

Reach FID 79: Culvert Peak Depth=1.36' Max Vel=5.7 fps Inflow=12.93 cfs 1.679 af
D=24.0" n=0.013 L=40.0' S=0.0050 '/' Capacity=16.00 cfs Outflow=12.93 cfs 1.679 af

Pond 1P: Wetland Detention 1(Cul. ID 89) Peak Elev=166.93' Storage=4.468 af Inflow=74.39 cfs 9.487 af
15.0" x 50.0' Culvert Outflow=10.74 cfs 7.415 af

Pond 2P: Wetland Detention 2(Cul. ID 88) Peak Elev=193.81' Storage=0.426 af Inflow=8.16 cfs 0.980 af
15.0" x 75.0' Culvert Outflow=2.59 cfs 0.881 af

Pond 3P: Wetland Detention 3(Cul. ID 279) Peak Elev=146.16' Storage=1.025 af Inflow=47.82 cfs 5.915 af
60.0" x 75.0' Culvert Outflow=39.52 cfs 5.857 af

Pond 4P: Wetland Detention 4 Peak Elev=101.19' Storage=5.875 af Inflow=231.93 cfs 42.335 af
Outflow=359.31 cfs 36.636 af

Pond 5P: Wetland Detention 5(Cul. ID 8 Peak Elev=39.17' Storage=32.193 af Inflow=552.00 cfs 154.325 af
Outflow=296.41 cfs 145.447 af

Pond 6P: Wetland Detention 6(Cul. ID 79) Peak Elev=36.91' Storage=9.252 af Inflow=185.20 cfs 68.214 af
Outflow=135.16 cfs 65.517 af

Pond 35P: Wetland Detention 35(Cul. ID Peak Elev=40.71' Storage=15.441 af Inflow=178.77 cfs 44.004 af
60.0" x 195.0' Culvert Outflow=85.06 cfs 40.169 af

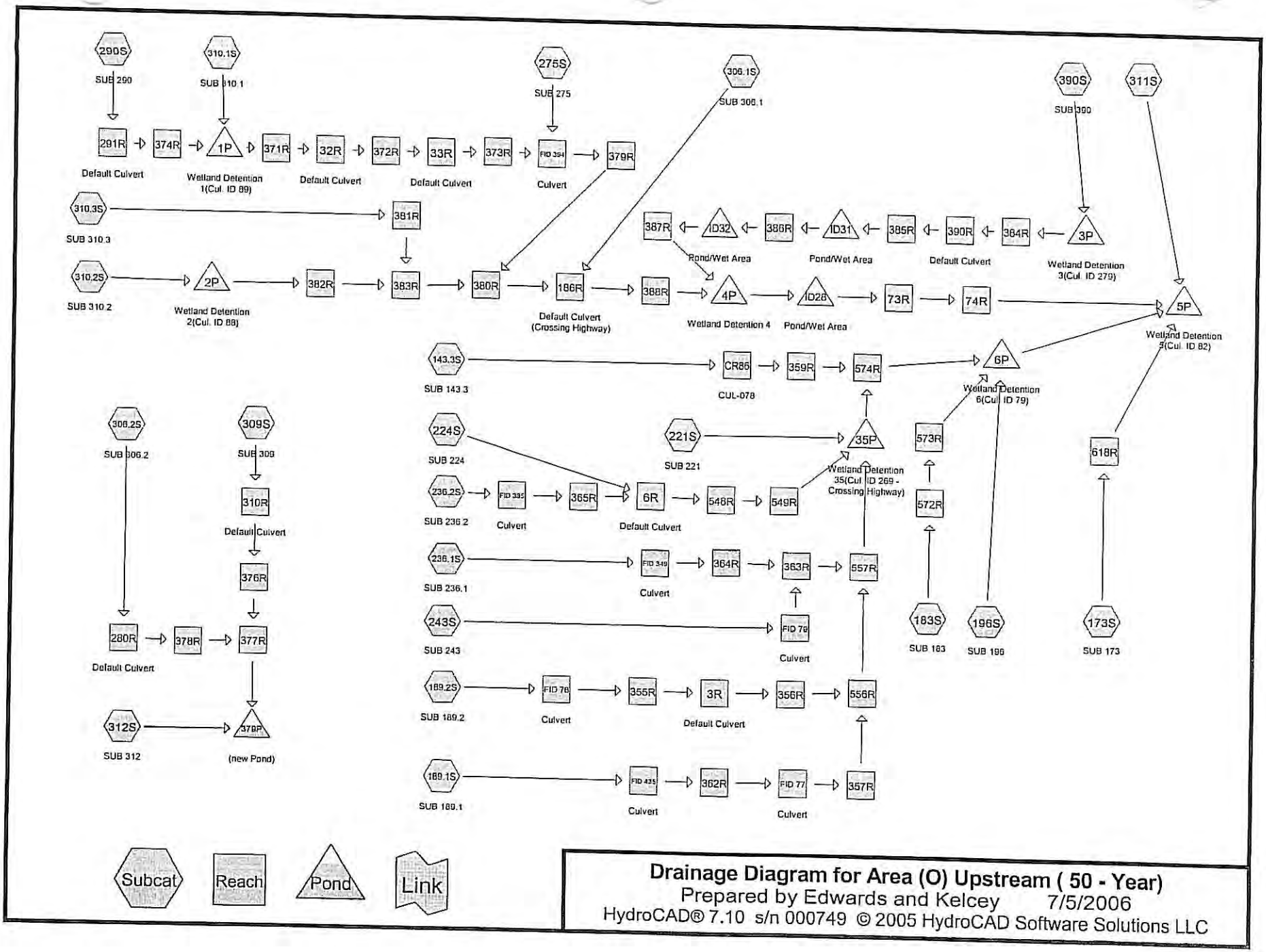
Pond 379P: (new Pond)
Inflow=41.99 cfs 6.144 af
Primary=41.99 cfs 6.144 af

Pond ID28: Pond/Wet Area Peak Elev=103.98' Storage=4.655 af Inflow=359.31 cfs 36.636 af
Outflow=315.10 cfs 32.415 af

Pond ID31: Pond/Wet Area Peak Elev=134.55' Storage=1.380 af Inflow=37.07 cfs 5.842 af
Outflow=53.47 cfs 4.498 af

Pond ID32: Pond/Wet Area Peak Elev=118.08' Storage=1.335 af Inflow=36.63 cfs 4.487 af
Outflow=29.88 cfs 3.153 af

Total Runoff Area = 861.280 ac Runoff Volume = 184.292 af Average Runoff Depth = 2.57"



Drainage Diagram for Area (O) Upstream (50 - Year)

Prepared by Edwards and Kelcey 7/5/2006

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 143.3S: SUB 143.3
Runoff Area=7.890 ac Runoff Depth>2.34"
Flow Length=647' Tc=27.7 min CN=69 Runoff=13.66 cfs 1.540 af

Subcatchment 173S: SUB 173
Runoff Area=14.440 ac Runoff Depth>3.64"
Flow Length=2,468' Tc=36.1 min CN=83 Runoff=33.99 cfs 4.378 af

Subcatchment 183S: SUB 183
Runoff Area=1.620 ac Runoff Depth>3.15"
Flow Length=556' Tc=32.9 min CN=78 Runoff=3.50 cfs 0.426 af

Subcatchment 189.1S: SUB 189.1
Runoff Area=3.620 ac Runoff Depth>3.45"
Flow Length=458' Tc=27.7 min CN=81 Runoff=9.16 cfs 1.040 af

Subcatchment 189.2S: SUB 189.2
Runoff Area=2.490 ac Runoff Depth>3.46"
Flow Length=336' Tc=17.6 min CN=81 Runoff=7.62 cfs 0.718 af

Subcatchment 196S: SUB 196
Runoff Area=131.310 ac Runoff Depth>2.73"
Flow Length=4,344' Tc=78.7 min CN=74 Runoff=153.78 cfs 29.878 af

Subcatchment 221S: SUB 221
Runoff Area=188.820 ac Runoff Depth>2.86"
Flow Length=3,652' Tc=118.9 min CN=76 Runoff=179.04 cfs 45.033 af

Subcatchment 224S: SUB 224
Runoff Area=5.760 ac Runoff Depth>1.23"
Flow Length=802' Tc=59.1 min CN=55 Runoff=3.27 cfs 0.590 af

Subcatchment 236.1S: SUB 236.1
Runoff Area=1.670 ac Runoff Depth>1.25"
Flow Length=335' Tc=29.4 min CN=55 Runoff=1.37 cfs 0.174 af

Subcatchment 236.2S: SUB 236.2
Runoff Area=2.840 ac Runoff Depth>0.74"
Flow Length=490' Tc=22.7 min CN=47 Runoff=1.24 cfs 0.174 af

Subcatchment 243S: SUB 243
Runoff Area=12.660 ac Runoff Depth>1.84"
Flow Length=1,175' Tc=35.7 min CN=63 Runoff=15.10 cfs 1.942 af

Subcatchment 275S: SUB 275
Runoff Area=7.180 ac Runoff Depth>0.98"
Flow Length=882' Tc=34.5 min CN=51 Runoff=4.01 cfs 0.584 af

Subcatchment 290S: SUB 290
Runoff Area=3.320 ac Runoff Depth>3.35"
Flow Length=387' Tc=26.1 min CN=80 Runoff=8.40 cfs 0.927 af

Subcatchment 306.1S: SUB 306.1
Runoff Area=138.220 ac Runoff Depth>2.95"
Flow Length=2,541' Tc=41.3 min CN=76 Runoff=251.59 cfs 34.036 af

Subcatchment 306.2S: SUB 306.2
Runoff Area=7.450 ac Runoff Depth>3.14"
Flow Length=630' Tc=43.6 min CN=78 Runoff=13.97 cfs 1.950 af

Subcatchment 309S: SUB 309 Runoff Area=11.560 ac Runoff Depth>3.23"
Flow Length=817' Tc=47.5 min CN=79 Runoff=21.31 cfs 3.113 af

Subcatchment 310.1S: SUB 310.1 Runoff Area=42.120 ac Runoff Depth>2.78"
Flow Length=1,913' Tc=32.4 min CN=74 Runoff=81.01 cfs 9.759 af

Subcatchment 310.2S: SUB 310.2 Runoff Area=4.160 ac Runoff Depth>3.15"
Flow Length=656' Tc=32.1 min CN=78 Runoff=9.09 cfs 1.093 af

Subcatchment 310.3S: SUB 310.3 Runoff Area=4.230 ac Runoff Depth>3.34"
Flow Length=735' Tc=36.0 min CN=80 Runoff=9.24 cfs 1.178 af

Subcatchment 311S: Runoff Area=238.460 ac Runoff Depth>3.00"
Flow Length=6,624' Tc=80.4 min CN=77 Runoff=302.63 cfs 59.694 af

Subcatchment 312S: SUB 312 Runoff Area=6.320 ac Runoff Depth>3.43"
Flow Length=950' Tc=40.9 min CN=81 Runoff=13.30 cfs 1.808 af

Subcatchment 390S: SUB 390 Runoff Area=25.140 ac Runoff Depth>3.15"
Flow Length=1,448' Tc=34.2 min CN=78 Runoff=53.28 cfs 6.601 af

Reach 3R: Default Culvert Peak Depth=0.61' Max Vel=7.0 fps Inflow=7.32 cfs 0.714 af
D=36.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=79.72 cfs Outflow=7.30 cfs 0.713 af

Reach 6R: Default Culvert Peak Depth=0.47' Max Vel=6.0 fps Inflow=4.27 cfs 0.757 af
D=36.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=79.72 cfs Outflow=4.26 cfs 0.757 af

Reach 32R: Default Culvert Peak Depth=1.09' Max Vel=8.0 fps Inflow=11.03 cfs 7.771 af
D=18.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=12.56 cfs Outflow=11.03 cfs 7.767 af

Reach 33R: Default Culvert Peak Depth=1.09' Max Vel=8.0 fps Inflow=11.03 cfs 7.752 af
D=18.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=12.56 cfs Outflow=11.03 cfs 7.748 af

Reach 73R: Peak Depth=1.78' Max Vel=7.3 fps Inflow=375.71 cfs 37.144 af
n=0.040 L=574.0' S=0.0401 '/' Capacity=1,111.90 cfs Outflow=271.14 cfs 37.069 af

Reach 74R: Peak Depth=1.80' Max Vel=4.8 fps Inflow=271.14 cfs 37.069 af
n=0.040 L=2,525.0' S=0.0162 '/' Capacity=707.82 cfs Outflow=208.02 cfs 36.286 af

Reach 186R: Default Culvert (Crossing H Peak Depth=3.50' Max Vel=17.7 fps Inflow=260.57 cfs 43.692 af
D=60.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=311.29 cfs Outflow=260.51 cfs 43.687 af

Reach 280R: Default Culvert Peak Depth=0.69' Max Vel=11.5 fps Inflow=13.97 cfs 1.950 af
D=36.0" n=0.013 L=30.0' S=0.0333 '/' Capacity=121.77 cfs Outflow=13.97 cfs 1.950 af

Reach 291R: Default Culvert Peak Depth=0.66' Max Vel=7.3 fps Inflow=8.40 cfs 0.927 af
D=36.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=79.72 cfs Outflow=8.40 cfs 0.927 af

Reach 310R: Default Culvert Peak Depth=0.91' Max Vel=11.7 fps Inflow=21.31 cfs 3.113 af
D=36.0" n=0.013 L=40.0' S=0.0250 '/' Capacity=105.46 cfs Outflow=21.31 cfs 3.113 af

Reach 355R: Peak Depth=0.25' Max Vel=3.5 fps Inflow=7.62 cfs 0.718 af
n=0.035 L=773.0' S=0.0595 '/' Capacity=1,548.60 cfs Outflow=7.32 cfs 0.714 af

Reach 356R: Peak Depth=0.32' Max Vel=2.4 fps Inflow=7.30 cfs 0.713 af
n=0.040 L=634.0' S=0.0276 '/' Capacity=922.86 cfs Outflow=6.95 cfs 0.709 af

Reach 357R: Peak Depth=0.42' Max Vel=2.0 fps Inflow=9.11 cfs 1.039 af
n=0.040 L=565.0' S=0.0150 '/' Capacity=681.31 cfs Outflow=8.84 cfs 1.032 af

Reach 359R: Peak Depth=0.54' Max Vel=1.6 fps Inflow=13.64 cfs 1.540 af
n=0.040 L=2,344.0' S=0.0071 '/' Capacity=469.28 cfs Outflow=9.74 cfs 1.480 af

Reach 362R: Peak Depth=0.53' Max Vel=6.8 fps Inflow=9.16 cfs 1.040 af
n=0.030 L=426.0' S=0.0775 '/' Capacity=156.98 cfs Outflow=9.11 cfs 1.039 af

Reach 363R: Peak Depth=0.44' Max Vel=3.1 fps Inflow=16.44 cfs 2.114 af
n=0.040 L=2,571.0' S=0.0331 '/' Capacity=1,009.99 cfs Outflow=14.33 cfs 2.062 af

Reach 364R: Peak Depth=0.24' Max Vel=2.5 fps Inflow=1.37 cfs 0.174 af
n=0.030 L=497.0' S=0.0262 '/' Capacity=124.94 cfs Outflow=1.36 cfs 0.173 af

Reach 365R: Peak Depth=0.16' Max Vel=0.8 fps Inflow=1.24 cfs 0.174 af
n=0.040 L=769.0' S=0.0078 '/' Capacity=490.65 cfs Outflow=1.00 cfs 0.168 af

Reach 371R: Peak Depth=0.41' Max Vel=5.1 fps Inflow=11.03 cfs 7.774 af
n=0.035 L=31.0' S=0.0645 '/' Capacity=598.51 cfs Outflow=11.03 cfs 7.771 af

Reach 372R: Peak Depth=0.53' Max Vel=3.7 fps Inflow=11.03 cfs 7.767 af
n=0.035 L=120.0' S=0.0250 '/' Capacity=372.57 cfs Outflow=11.03 cfs 7.752 af

Reach 373R: Peak Depth=0.85' Max Vel=2.0 fps Inflow=11.03 cfs 7.748 af
n=0.035 L=228.0' S=0.0044 '/' Capacity=156.05 cfs Outflow=11.03 cfs 7.694 af

Reach 374R: Peak Depth=0.46' Max Vel=1.4 fps Inflow=8.40 cfs 0.927 af
n=0.050 L=1,405.0' S=0.0100 '/' Capacity=443.58 cfs Outflow=6.72 cfs 0.905 af

Reach 376R: Peak Depth=0.68' Max Vel=2.5 fps Inflow=21.31 cfs 3.113 af
n=0.040 L=151.0' S=0.0132 '/' Capacity=639.27 cfs Outflow=21.26 cfs 3.109 af

Reach 377R: Peak Depth=1.15' Max Vel=1.7 fps Inflow=35.15 cfs 5.055 af
n=0.040 L=340.0' S=0.0035 '/' Capacity=330.00 cfs Outflow=34.90 cfs 5.034 af

Reach 378R: Peak Depth=0.63' Max Vel=1.8 fps Inflow=13.97 cfs 1.950 af
n=0.040 L=135.0' S=0.0074 '/' Capacity=478.07 cfs Outflow=13.93 cfs 1.946 af

Reach 379R: Peak Depth=0.56' Max Vel=2.0 fps Inflow=13.72 cfs 8.277 af
n=0.050 L=2,172.0' S=0.0173 '/' Capacity=583.90 cfs Outflow=13.04 cfs 7.750 af

Reach 380R: Peak Depth=0.86' Max Vel=1.8 fps Inflow=23.12 cfs 9.861 af
n=0.040 L=645.0' S=0.0054 '/' Capacity=409.18 cfs Outflow=22.89 cfs 9.656 af

Reach 381R: Peak Depth=0.32' Max Vel=2.9 fps Inflow=9.24 cfs 1.178 af
n=0.040 L=1,658.0' S=0.0422 '/' Capacity=1,141.34 cfs Outflow=8.66 cfs 1.162 af

Reach 382R: Peak Depth=0.16' Max Vel=2.4 fps Inflow=2.89 cfs 0.988 af
n=0.040 L=986.0' S=0.0609 '/' Capacity=1,370.24 cfs Outflow=2.88 cfs 0.975 af

Reach 383R: Peak Depth=0.44' Max Vel=2.3 fps Inflow=10.87 cfs 2.137 af
n=0.040 L=1,006.0' S=0.0184 '/' Capacity=753.26 cfs Outflow=10.51 cfs 2.110 af

Reach 384R: Peak Depth=1.96' Max Vel=4.6 fps Inflow=58.91 cfs 6.538 af
n=0.030 L=390.0' S=0.0077 '/' Capacity=140.05 cfs Outflow=49.32 cfs 6.525 af

Reach 385R: Peak Depth=1.12' Max Vel=10.4 fps Inflow=49.32 cfs 6.525 af
n=0.030 L=94.0' S=0.0745 '/' Capacity=435.76 cfs Outflow=49.24 cfs 6.523 af

Reach 386R: Peak Depth=0.79' Max Vel=5.4 fps Inflow=63.28 cfs 5.165 af
n=0.040 L=272.0' S=0.0551 '/' Capacity=1,304.43 cfs Outflow=47.33 cfs 5.161 af

Reach 387R: Peak Depth=0.74' Max Vel=2.5 fps Inflow=46.79 cfs 3.846 af
n=0.040 L=1,398.0' S=0.0125 '/' Capacity=621.48 cfs Outflow=25.17 cfs 3.775 af

Reach 388R: Peak Depth=1.89' Max Vel=5.5 fps Inflow=260.51 cfs 43.687 af
n=0.035 L=489.0' S=0.0153 '/' Capacity=786.19 cfs Outflow=259.62 cfs 43.562 af

Reach 390R: Default Culvert Peak Depth=1.71' Max Vel=11.9 fps Inflow=49.32 cfs 6.525 af
D=36.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=79.72 cfs Outflow=49.32 cfs 6.525 af

Reach 548R: Peak Depth=0.19' Max Vel=2.7 fps Inflow=4.26 cfs 0.757 af
n=0.040 L=1,194.0' S=0.0628 '/' Capacity=1,392.16 cfs Outflow=4.15 cfs 0.745 af

Reach 549R: Peak Depth=0.25' Max Vel=1.7 fps Inflow=4.15 cfs 0.745 af
n=0.040 L=1,811.0' S=0.0182 '/' Capacity=749.82 cfs Outflow=3.61 cfs 0.716 af

Reach 556R: Peak Depth=0.62' Max Vel=1.9 fps Inflow=15.65 cfs 1.740 af
n=0.040 L=945.0' S=0.0085 '/' Capacity=511.08 cfs Outflow=14.37 cfs 1.720 af

Reach 557R: Peak Depth=0.97' Max Vel=1.6 fps Inflow=27.61 cfs 3.782 af
n=0.040 L=1,192.0' S=0.0038 '/' Capacity=341.29 cfs Outflow=24.91 cfs 3.709 af

Reach 572R: Peak Depth=0.19' Max Vel=2.3 fps Inflow=3.50 cfs 0.426 af
n=0.035 L=344.0' S=0.0349 '/' Capacity=1,185.67 cfs Outflow=3.47 cfs 0.424 af

Reach 573R: Peak Depth=0.36' Max Vel=3.0 fps Inflow=3.47 cfs 0.424 af
n=0.030 L=1,297.0' S=0.0216 '/' Capacity=123.50 cfs Outflow=3.30 cfs 0.419 af

Reach 574R: Peak Depth=2.84' Max Vel=3.4 fps Inflow=93.86 cfs 46.140 af
n=0.030 L=312.0' S=0.0032 '/' Capacity=47.59 cfs Outflow=93.86 cfs 45.948 af

Reach 618R: Peak Depth=1.17' Max Vel=5.2 fps Inflow=33.99 cfs 4.378 af
n=0.035 L=952.0' S=0.0252 '/' Capacity=114.39 cfs Outflow=33.73 cfs 4.361 af

Reach CR86: CUL-078 Peak Depth=1.52' Max Vel=5.3 fps Inflow=13.66 cfs 1.540 af
D=24.0" n=0.025 L=80.0' S=0.0156 '/' Capacity=14.70 cfs Outflow=13.64 cfs 1.540 af

Reach FID 349: Culvert Peak Depth=0.32' Max Vel=5.6 fps Inflow=1.37 cfs 0.174 af
D=15.0" n=0.013 L=43.0' S=0.0233 '/' Capacity=9.85 cfs Outflow=1.37 cfs 0.174 af

Reach FID 394: Culvert Peak Depth=0.79' Max Vel=11.8 fps Inflow=13.72 cfs 8.278 af
D=24.0" n=0.013 L=30.0' S=0.0333 '/' Capacity=41.30 cfs Outflow=13.72 cfs 8.277 af

Reach FID 395: Culvert Peak Depth=0.24' Max Vel=5.9 fps Inflow=1.24 cfs 0.174 af
D=24.0" n=0.013 L=30.0' S=0.0333 '/' Capacity=41.30 cfs Outflow=1.24 cfs 0.174 af

Reach FID 435: Culvert Peak Depth=0.96' Max Vel=9.0 fps Inflow=9.16 cfs 1.040 af
D=15.0" n=0.013 L=44.0' S=0.0227 '/' Capacity=9.74 cfs Outflow=9.16 cfs 1.040 af

Reach FID 77: Culvert Peak Depth=0.97' Max Vel=8.9 fps Inflow=9.11 cfs 1.039 af
D=15.0" n=0.013 L=45.0' S=0.0222 '/' Capacity=9.63 cfs Outflow=9.11 cfs 1.039 af

Reach FID 78: Culvert Peak Depth=0.73' Max Vel=10.2 fps Inflow=7.62 cfs 0.718 af
D=15.0" n=0.013 L=30.0' S=0.0333 '/' Capacity=11.79 cfs Outflow=7.62 cfs 0.718 af

Reach FID 79: Culvert Peak Depth=1.55' Max Vel=5.8 fps Inflow=15.10 cfs 1.942 af
D=24.0" n=0.013 L=40.0' S=0.0050 '/' Capacity=16.00 cfs Outflow=15.09 cfs 1.942 af

Pond 1P: Wetland Detention 1(Cul. ID 89) Peak Elev=167.11' Storage=5.228 af Inflow=83.83 cfs 10.664 af
15.0" x 50.0' Culvert Outflow=11.03 cfs 7.774 af

Pond 2P: Wetland Detention 2(Cul. ID 88) Peak Elev=193.87' Storage=0.476 af Inflow=9.09 cfs 1.093 af
15.0" x 75.0' Culvert Outflow=2.89 cfs 0.988 af

Pond 3P: Wetland Detention 3(Cul. ID 279) Peak Elev=146.75' Storage=1.025 af Inflow=53.28 cfs 6.601 af
60.0" x 75.0' Culvert Outflow=58.91 cfs 6.538 af

Pond 4P: Wetland Detention 4 Peak Elev=101.08' Storage=5.875 af Inflow=259.62 cfs 47.337 af
Outflow=328.13 cfs 41.605 af

Pond 5P: Wetland Detention 5(Cul. ID 8 Peak Elev=39.49' Storage=36.508 af Inflow=632.52 cfs 173.326 af
Outflow=349.66 cfs 162.487 af

Pond 6P: Wetland Detention 6(Cul. ID 79) Peak Elev=37.19' Storage=10.698 af Inflow=207.99 cfs 76.245 af
Outflow=147.53 cfs 72.984 af

Pond 35P: Wetland Detention 35(Cul. ID Peak Elev=40.89' Storage=17.939 af Inflow=201.04 cfs 49.458 af
60.0" x 195.0' Culvert Outflow=91.91 cfs 44.660 af

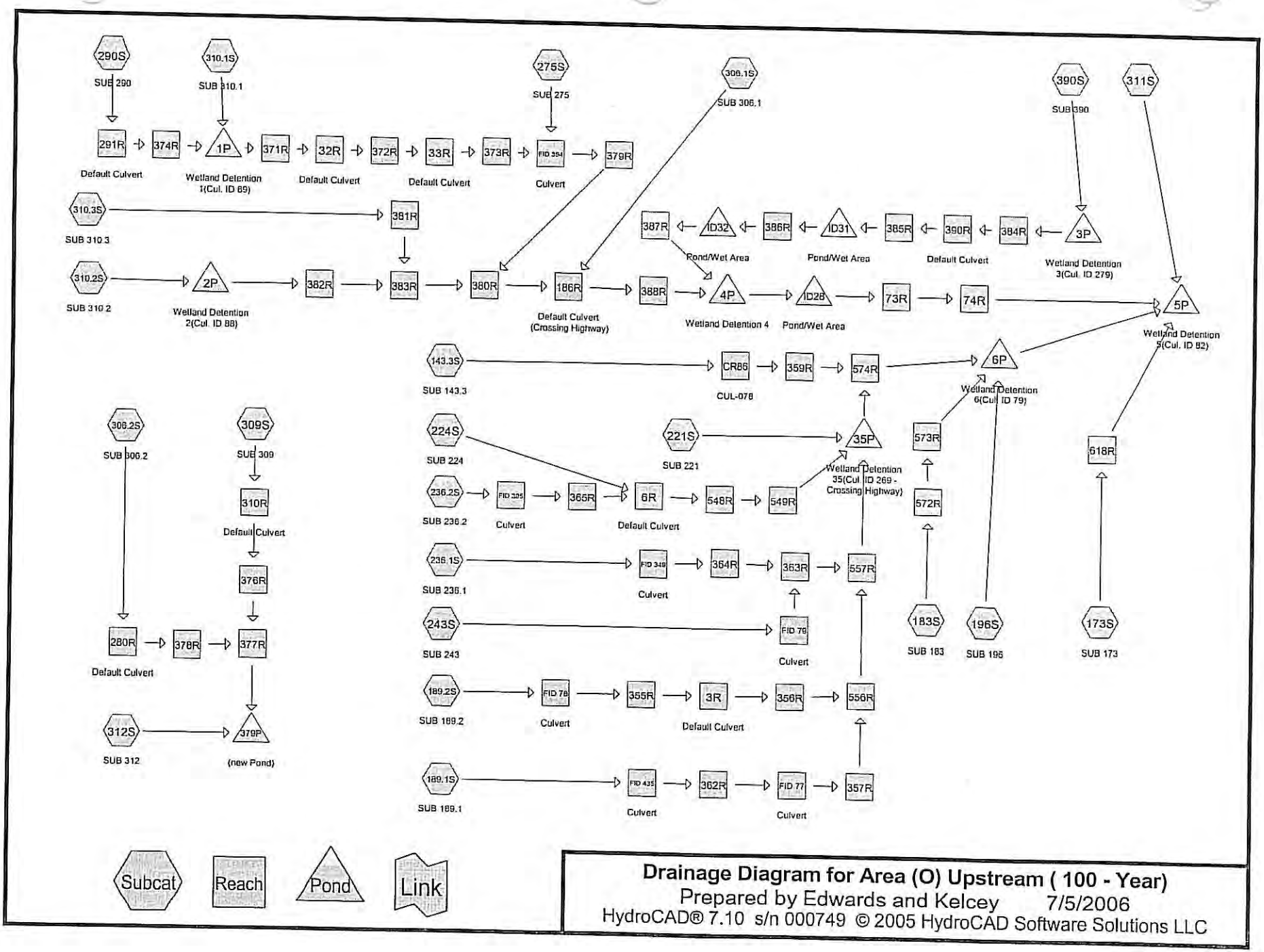
Pond 379P: (new Pond)
Inflow=46.72 cfs 6.842 af
Primary=46.72 cfs 6.842 af

Pond ID28: Pond/Wet Area Peak Elev=104.54' Storage=4.655 af Inflow=328.13 cfs 41.605 af
Outflow=375.71 cfs 37.144 af

Pond ID31: Pond/Wet Area Peak Elev=134.60' Storage=1.380 af Inflow=49.24 cfs 6.523 af
Outflow=63.28 cfs 5.165 af

Pond ID32: Pond/Wet Area Peak Elev=118.45' Storage=1.335 af Inflow=47.33 cfs 5.161 af
Outflow=46.79 cfs 3.846 af

Total Runoff Area = 861.280 ac Runoff Volume = 206.635 af Average Runoff Depth = 2.88"


290S
SUB 290
310.1S
SUB 310.1
275S
SUB 275
306.1S
SUB 306.1
390S
SUB 390
311S
291R
374R
1P
371R
32R
372R
33R
373R
FID 354
379R
Default Culvert
Wetland Detention 1(Cul. ID 89)
Default Culvert
Default Culvert
Culvert
310.3S
SUB 310.3
381R
387R
ID32
386R
ID31
385R
390R
384R
3P
Pond/Wet Area
Pond/Wet Area
Default Culvert
Wetland Detention 3(Cul. ID 279)
310.2S
SUB 310.2
2P
382R
383R
380R
186R
388R
4P
ID28
73R
74R
5P
Wetland Detention 2(Cul. ID 88)
Default Culvert (Crossing Highway)
Wetland Detention 4
Pond/Wet Area
Wetland Detention 5(Cul. ID 82)
143.3S
SUB 143.3
CR86
CUL-078
359R
574R
6P
Wetland Detention 6(Cul. ID 79)
306.2S
SUB 306.2
309S
SUB 309
224S
SUB 224
221S
SUB 221
35P
573R
618R
310R
Default Culvert
236.2S
SUB 236.2
FID 335
Culvert
365R
6R
Default Culvert
548R
549R
Wetland Detention 35(Cul. ID 269 - Crossing Highway)
572R
376R
236.1S
SUB 236.1
FID 349
Culvert
364R
363R
557R
280R
Default Culvert
378R
377R
243S
SUB 243
FID 79
Culvert
183S
SUB 183
196S
SUB 196
173S
SUB 173
312S
SUB 312
379P
(new Pond)
189.2S
SUB 189.2
FID 78
Culvert
355R
3R
Default Culvert
356R
556R
189.1S
SUB 189.1
FID 435
Culvert
362R
FID 77
Culvert
357R
Subcat
Reach
Pond
Link
Drainage Diagram for Area (O) Upstream (100 - Year)
Prepared by Edwards and Kelcey 7/5/2006
HydroCAD® 7.10 s/n 000749 © 2005 HydroCAD Software Solutions LLC

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 143.3S: SUB 143.3 Runoff Area=7.890 ac Runoff Depth>2.93"
Flow Length=647' Tc=27.7 min CN=69 Runoff=17.16 cfs 1.929 af

Subcatchment 173S: SUB 173 Runoff Area=14.440 ac Runoff Depth>4.34"
Flow Length=2,468' Tc=36.1 min CN=83 Runoff=40.28 cfs 5.224 af

Subcatchment 183S: SUB 183 Runoff Area=1.620 ac Runoff Depth>3.82"
Flow Length=556' Tc=32.9 min CN=78 Runoff=4.22 cfs 0.516 af

Subcatchment 189.1S: SUB 189.1 Runoff Area=3.620 ac Runoff Depth>4.14"
Flow Length=458' Tc=27.7 min CN=81 Runoff=10.93 cfs 1.249 af

Subcatchment 189.2S: SUB 189.2 Runoff Area=2.490 ac Runoff Depth>4.15"
Flow Length=336' Tc=17.6 min CN=81 Runoff=9.09 cfs 0.862 af

Subcatchment 196S: SUB 196 Runoff Area=131.310 ac Runoff Depth>3.36"
Flow Length=4,344' Tc=78.7 min CN=74 Runoff=189.02 cfs 36.744 af

Subcatchment 221S: SUB 221 Runoff Area=188.820 ac Runoff Depth>3.50"
Flow Length=3,652' Tc=118.9 min CN=76 Runoff=218.32 cfs 55.033 af

Subcatchment 224S: SUB 224 Runoff Area=5.760 ac Runoff Depth>1.65"
Flow Length=802' Tc=59.1 min CN=55 Runoff=4.57 cfs 0.794 af

Subcatchment 236.1S: SUB 236.1 Runoff Area=1.670 ac Runoff Depth>1.68"
Flow Length=335' Tc=29.4 min CN=55 Runoff=1.92 cfs 0.234 af

Subcatchment 236.2S: SUB 236.2 Runoff Area=2.840 ac Runoff Depth>1.06"
Flow Length=490' Tc=22.7 min CN=47 Runoff=1.99 cfs 0.251 af

Subcatchment 243S: SUB 243 Runoff Area=12.660 ac Runoff Depth>2.37"
Flow Length=1,175' Tc=35.7 min CN=63 Runoff=19.65 cfs 2.497 af

Subcatchment 275S: SUB 275 Runoff Area=7.180 ac Runoff Depth>1.36"
Flow Length=882' Tc=34.5 min CN=51 Runoff=5.91 cfs 0.811 af

Subcatchment 290S: SUB 290 Runoff Area=3.320 ac Runoff Depth>4.04"
Flow Length=387' Tc=26.1 min CN=80 Runoff=10.07 cfs 1.117 af

Subcatchment 306.1S: SUB 306.1 Runoff Area=138.220 ac Runoff Depth>3.61"
Flow Length=2,541' Tc=41.3 min CN=76 Runoff=306.14 cfs 41.542 af

Subcatchment 306.2S: SUB 306.2 Runoff Area=7.450 ac Runoff Depth>3.81"
Flow Length=630' Tc=43.6 min CN=78 Runoff=16.87 cfs 2.364 af

Subcatchment 309S: SUB 309 Runoff Area=11.560 ac Runoff Depth>3.91"
Flow Length=817' Tc=47.5 min CN=79 Runoff=25.63 cfs 3.763 af

Subcatchment 310.1S: SUB 310.1 Runoff Area=42.120 ac Runoff Depth>3.42"
Flow Length=1,913' Tc=32.4 min CN=74 Runoff=99.39 cfs 11.992 af

Subcatchment 310.2S: SUB 310.2 Runoff Area=4.160 ac Runoff Depth>3.82"
Flow Length=656' Tc=32.1 min CN=78 Runoff=10.97 cfs 1.325 af

Subcatchment 310.3S: SUB 310.3 Runoff Area=4.230 ac Runoff Depth>4.02"
Flow Length=735' Tc=36.0 min CN=80 Runoff=11.07 cfs 1.419 af

Subcatchment 311S: Runoff Area=238.460 ac Runoff Depth>3.66"
Flow Length=6,624' Tc=80.4 min CN=77 Runoff=367.16 cfs 72.654 af

Subcatchment 312S: SUB 312 Runoff Area=6.320 ac Runoff Depth>4.12"
Flow Length=950' Tc=40.9 min CN=81 Runoff=15.88 cfs 2.172 af

Subcatchment 390S: SUB 390 Runoff Area=25.140 ac Runoff Depth>3.82"
Flow Length=1,448' Tc=34.2 min CN=78 Runoff=64.31 cfs 8.002 af

Reach 3R: Default Culvert Peak Depth=0.67' Max Vel=7.4 fps Inflow=8.76 cfs 0.857 af
D=36.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=79.72 cfs Outflow=8.74 cfs 0.857 af

Reach 6R: Default Culvert Peak Depth=0.57' Max Vel=6.7 fps Inflow=6.21 cfs 1.038 af
D=36.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=79.72 cfs Outflow=6.20 cfs 1.038 af

Reach 32R: Default Culvert Peak Depth=1.13' Max Vel=8.1 fps Inflow=11.54 cfs 8.420 af
D=18.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=12.56 cfs Outflow=11.54 cfs 8.416 af

Reach 33R: Default Culvert Peak Depth=1.13' Max Vel=8.1 fps Inflow=11.54 cfs 8.400 af
D=18.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=12.56 cfs Outflow=11.54 cfs 8.396 af

Reach 73R: Peak Depth=1.77' Max Vel=7.5 fps Inflow=525.59 cfs 47.479 af
n=0.040 L=574.0' S=0.0401 '/' Capacity=1,111.90 cfs Outflow=314.13 cfs 47.292 af

Reach 74R: Peak Depth=2.05' Max Vel=5.2 fps Inflow=314.13 cfs 47.292 af
n=0.040 L=2,525.0' S=0.0162 '/' Capacity=707.82 cfs Outflow=282.46 cfs 46.454 af

Reach 186R: Default Culvert (Crossing H Peak Depth=4.18' Max Vel=18.1 fps Inflow=316.82 cfs 52.484 af
D=60.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=311.29 cfs Outflow=316.63 cfs 52.478 af

Reach 280R: Default Culvert Peak Depth=0.75' Max Vel=12.1 fps Inflow=16.87 cfs 2.364 af
D=36.0" n=0.013 L=30.0' S=0.0333 '/' Capacity=121.77 cfs Outflow=16.87 cfs 2.364 af

Reach 291R: Default Culvert Peak Depth=0.72' Max Vel=7.7 fps Inflow=10.07 cfs 1.117 af
D=36.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=79.72 cfs Outflow=10.06 cfs 1.117 af

Reach 310R: Default Culvert Peak Depth=1.01' Max Vel=12.3 fps Inflow=25.63 cfs 3.763 af
D=36.0" n=0.013 L=40.0' S=0.0250 '/' Capacity=105.46 cfs Outflow=25.63 cfs 3.762 af

Reach 355R: Peak Depth=0.28' Max Vel=3.6 fps Inflow=9.09 cfs 0.862 af
n=0.035 L=773.0' S=0.0595 '/' Capacity=1,548.60 cfs Outflow=8.76 cfs 0.857 af

Reach 356R: Peak Depth=0.35' Max Vel=2.5 fps Inflow=8.74 cfs 0.857 af
n=0.040 L=634.0' S=0.0276 '/' Capacity=922.86 cfs Outflow=8.34 cfs 0.852 af

Reach 357R: Peak Depth=0.45' Max Vel=2.1 fps Inflow=10.06 cfs 1.247 af
n=0.040 L=565.0' S=0.0150 '/' Capacity=681.31 cfs Outflow=9.74 cfs 1.240 af

Reach 359R: Peak Depth=0.61' Max Vel=1.7 fps Inflow=15.64 cfs 1.928 af
n=0.040 L=2,344.0' S=0.0071 '/' Capacity=469.28 cfs Outflow=12.74 cfs 1.861 af

Reach 362R: Peak Depth=0.56' Max Vel=7.0 fps Inflow=10.36 cfs 1.249 af
n=0.030 L=426.0' S=0.0775 '/' Capacity=156.98 cfs Outflow=10.06 cfs 1.247 af

Reach 363R: Peak Depth=0.49' Max Vel=3.3 fps Inflow=17.90 cfs 2.729 af
n=0.040 L=2,571.0' S=0.0331 '/' Capacity=1,009.99 cfs Outflow=17.22 cfs 2.670 af

Reach 364R: Peak Depth=0.29' Max Vel=2.8 fps Inflow=1.92 cfs 0.234 af
n=0.030 L=497.0' S=0.0262 '/' Capacity=124.94 cfs Outflow=1.90 cfs 0.232 af

Reach 365R: Peak Depth=0.21' Max Vel=1.0 fps Inflow=1.99 cfs 0.251 af
n=0.040 L=769.0' S=0.0078 '/' Capacity=490.65 cfs Outflow=1.66 cfs 0.244 af

Reach 371R: Peak Depth=0.42' Max Vel=5.2 fps Inflow=11.54 cfs 8.423 af
n=0.035 L=31.0' S=0.0645 '/' Capacity=598.51 cfs Outflow=11.54 cfs 8.420 af

Reach 372R: Peak Depth=0.55' Max Vel=3.7 fps Inflow=11.54 cfs 8.416 af
n=0.035 L=120.0' S=0.0250 '/' Capacity=372.57 cfs Outflow=11.54 cfs 8.400 af

Reach 373R: Peak Depth=0.87' Max Vel=2.0 fps Inflow=11.54 cfs 8.396 af
n=0.035 L=228.0' S=0.0044 '/' Capacity=156.05 cfs Outflow=11.54 cfs 8.339 af

Reach 374R: Peak Depth=0.51' Max Vel=1.5 fps Inflow=10.06 cfs 1.117 af
n=0.050 L=1,405.0' S=0.0100 '/' Capacity=443.58 cfs Outflow=8.17 cfs 1.092 af

Reach 376R: Peak Depth=0.74' Max Vel=2.6 fps Inflow=25.63 cfs 3.762 af
n=0.040 L=151.0' S=0.0132 '/' Capacity=639.27 cfs Outflow=25.58 cfs 3.758 af

Reach 377R: Peak Depth=1.25' Max Vel=1.8 fps Inflow=42.34 cfs 6.118 af
n=0.040 L=340.0' S=0.0035 '/' Capacity=330.00 cfs Outflow=42.08 cfs 6.094 af

Reach 378R: Peak Depth=0.69' Max Vel=1.9 fps Inflow=16.87 cfs 2.364 af
n=0.040 L=135.0' S=0.0074 '/' Capacity=478.07 cfs Outflow=16.82 cfs 2.360 af

Reach 379R: Peak Depth=0.59' Max Vel=2.1 fps Inflow=15.93 cfs 9.148 af
n=0.050 L=2,172.0' S=0.0173 '/' Capacity=583.90 cfs Outflow=14.93 cfs 8.593 af

Reach 380R: Peak Depth=0.93' Max Vel=1.9 fps Inflow=27.34 cfs 11.157 af
n=0.040 L=645.0' S=0.0054 '/' Capacity=409.18 cfs Outflow=27.03 cfs 10.942 af

Reach 381R: Peak Depth=0.35' Max Vel=3.1 fps Inflow=11.07 cfs 1.419 af
n=0.040 L=1,658.0' S=0.0422 '/' Capacity=1,141.34 cfs Outflow=10.44 cfs 1.401 af

Reach 382R: Peak Depth=0.18' Max Vel=2.5 fps Inflow=3.46 cfs 1.207 af
n=0.040 L=986.0' S=0.0609 '/' Capacity=1,370.24 cfs Outflow=3.45 cfs 1.193 af

Reach 383R: Peak Depth=0.48' Max Vel=2.4 fps Inflow=13.14 cfs 2.594 af
n=0.040 L=1,006.0' S=0.0184 '/' Capacity=753.26 cfs Outflow=12.74 cfs 2.564 af

Reach 384R: Peak Depth=2.19' Max Vel=4.8 fps Inflow=68.92 cfs 7.930 af
n=0.030 L=390.0' S=0.0077 '/' Capacity=140.05 cfs Outflow=64.50 cfs 7.917 af

Reach 385R: Peak Depth=1.27' Max Vel=11.2 fps Inflow=64.51 cfs 7.916 af
n=0.030 L=94.0' S=0.0745 '/' Capacity=435.76 cfs Outflow=64.47 cfs 7.914 af

Reach 386R: Peak Depth=0.81' Max Vel=5.6 fps Inflow=98.91 cfs 6.611 af
n=0.040 L=272.0' S=0.0551 '/' Capacity=1,304.43 cfs Outflow=62.96 cfs 6.598 af

Reach 387R: Peak Depth=0.85' Max Vel=2.7 fps Inflow=75.10 cfs 5.319 af
n=0.040 L=1,398.0' S=0.0125 '/' Capacity=621.48 cfs Outflow=33.83 cfs 5.232 af

Reach 388R: Peak Depth=2.06' Max Vel=5.8 fps Inflow=316.63 cfs 52.478 af
n=0.035 L=489.0' S=0.0153 '/' Capacity=786.19 cfs Outflow=315.58 cfs 52.342 af

Reach 390R: Default Culvert Peak Depth=2.05' Max Vel=12.6 fps Inflow=64.50 cfs 7.917 af
D=36.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=79.72 cfs Outflow=64.51 cfs 7.916 af

Reach 548R: Peak Depth=0.24' Max Vel=3.0 fps Inflow=6.20 cfs 1.038 af
n=0.040 L=1,194.0' S=0.0628 '/' Capacity=1,392.16 cfs Outflow=6.06 cfs 1.024 af

Reach 549R: Peak Depth=0.31' Max Vel=1.9 fps Inflow=6.06 cfs 1.024 af
n=0.040 L=1,811.0' S=0.0182 '/' Capacity=749.82 cfs Outflow=5.38 cfs 0.990 af

Reach 556R: Peak Depth=0.67' Max Vel=2.0 fps Inflow=17.99 cfs 2.091 af
n=0.040 L=945.0' S=0.0085 '/' Capacity=511.08 cfs Outflow=16.71 cfs 2.069 af

Reach 557R: Peak Depth=1.06' Max Vel=1.7 fps Inflow=32.45 cfs 4.738 af
n=0.040 L=1,192.0' S=0.0038 '/' Capacity=341.29 cfs Outflow=30.21 cfs 4.656 af

Reach 572R: Peak Depth=0.21' Max Vel=2.4 fps Inflow=4.22 cfs 0.516 af
n=0.035 L=344.0' S=0.0349 '/' Capacity=1,185.67 cfs Outflow=4.19 cfs 0.514 af

Reach 573R: Peak Depth=0.40' Max Vel=3.1 fps Inflow=4.19 cfs 0.514 af
n=0.030 L=1,297.0' S=0.0216 '/' Capacity=123.50 cfs Outflow=4.01 cfs 0.509 af

Reach 574R: Peak Depth=3.07' Max Vel=3.5 fps Inflow=107.01 cfs 55.289 af
n=0.030 L=312.0' S=0.0032 '/' Capacity=47.59 cfs Outflow=107.00 cfs 55.046 af

Reach 618R: Peak Depth=1.26' Max Vel=5.5 fps Inflow=40.28 cfs 5.224 af
n=0.035 L=952.0' S=0.0252 '/' Capacity=114.39 cfs Outflow=40.00 cfs 5.206 af

Reach CR86: CUL-078 Peak Depth=2.00' Max Vel=5.3 fps Inflow=17.16 cfs 1.929 af
D=24.0" n=0.025 L=80.0' S=0.0156 '/' Capacity=14.70 cfs Outflow=15.64 cfs 1.928 af

Reach FID 349: Culvert Peak Depth=0.37' Max Vel=6.2 fps Inflow=1.92 cfs 0.234 af
D=15.0" n=0.013 L=43.0' S=0.0233 '/' Capacity=9.85 cfs Outflow=1.92 cfs 0.234 af

Reach FID 394: Culvert Peak Depth=0.86' Max Vel=12.3 fps Inflow=15.93 cfs 9.150 af
D=24.0" n=0.013 L=30.0' S=0.0333 '/' Capacity=41.30 cfs Outflow=15.93 cfs 9.148 af

Reach FID 395: Culvert Peak Depth=0.30' Max Vel=6.8 fps Inflow=1.99 cfs 0.251 af
D=24.0" n=0.013 L=30.0' S=0.0333 '/' Capacity=41.30 cfs Outflow=1.99 cfs 0.251 af

Reach FID 435: Culvert Peak Depth=1.25' Max Vel=9.0 fps Inflow=10.93 cfs 1.249 af
D=15.0" n=0.013 L=44.0' S=0.0227 '/' Capacity=9.74 cfs Outflow=10.36 cfs 1.249 af

Reach FID 77: Culvert Peak Depth=1.09' Max Vel=8.9 fps Inflow=10.06 cfs 1.247 af
D=15.0" n=0.013 L=45.0' S=0.0222 '/' Capacity=9.63 cfs Outflow=10.06 cfs 1.247 af

Reach FID 78: Culvert Peak Depth=0.82' Max Vel=10.6 fps Inflow=9.09 cfs 0.862 af
D=15.0" n=0.013 L=30.0' S=0.0333 '/' Capacity=11.79 cfs Outflow=9.09 cfs 0.862 af

Reach FID 79: Culvert Peak Depth=2.00' Max Vel=5.8 fps Inflow=19.65 cfs 2.497 af
D=24.0" n=0.013 L=40.0' S=0.0050 '/' Capacity=16.00 cfs Outflow=16.43 cfs 2.496 af

Pond 1P: Wetland Detention 1(Cul. ID 89) Peak Elev=167.44' Storage=6.857 af Inflow=103.11 cfs 13.085 af
15.0" x 50.0' Culvert Outflow=11.54 cfs 8.423 af

Pond 2P: Wetland Detention 2(Cul. ID 88) Peak Elev=193.98' Storage=0.577 af Inflow=10.97 cfs 1.325 af
15.0" x 75.0' Culvert Outflow=3.46 cfs 1.207 af

Pond 3P: Wetland Detention 3(Cul. ID 279) Peak Elev=147.03' Storage=1.025 af Inflow=64.31 cfs 8.002 af
60.0" x 75.0' Culvert Outflow=68.92 cfs 7.930 af

Pond 4P: Wetland Detention 4 Peak Elev=101.05' Storage=5.875 af Inflow=315.58 cfs 57.575 af
Outflow=319.15 cfs 51.708 af

Pond 5P: Wetland Detention 5(Cul. ID 8 Peak Elev=40.47' Storage=43.500 af Inflow=783.51 cfs 212.003 af
Outflow=582.08 cfs 197.082 af

Pond 6P: Wetland Detention 6(Cul. ID 79) Peak Elev=37.78' Storage=14.188 af Inflow=254.64 cfs 92.299 af
Outflow=165.06 cfs 87.688 af

Pond 35P: Wetland Detention 35(Cul. ID Peak Elev=41.24' Storage=23.324 af Inflow=247.75 cfs 60.680 af
60.0" x 195.0' Culvert Outflow=104.79 cfs 53.427 af

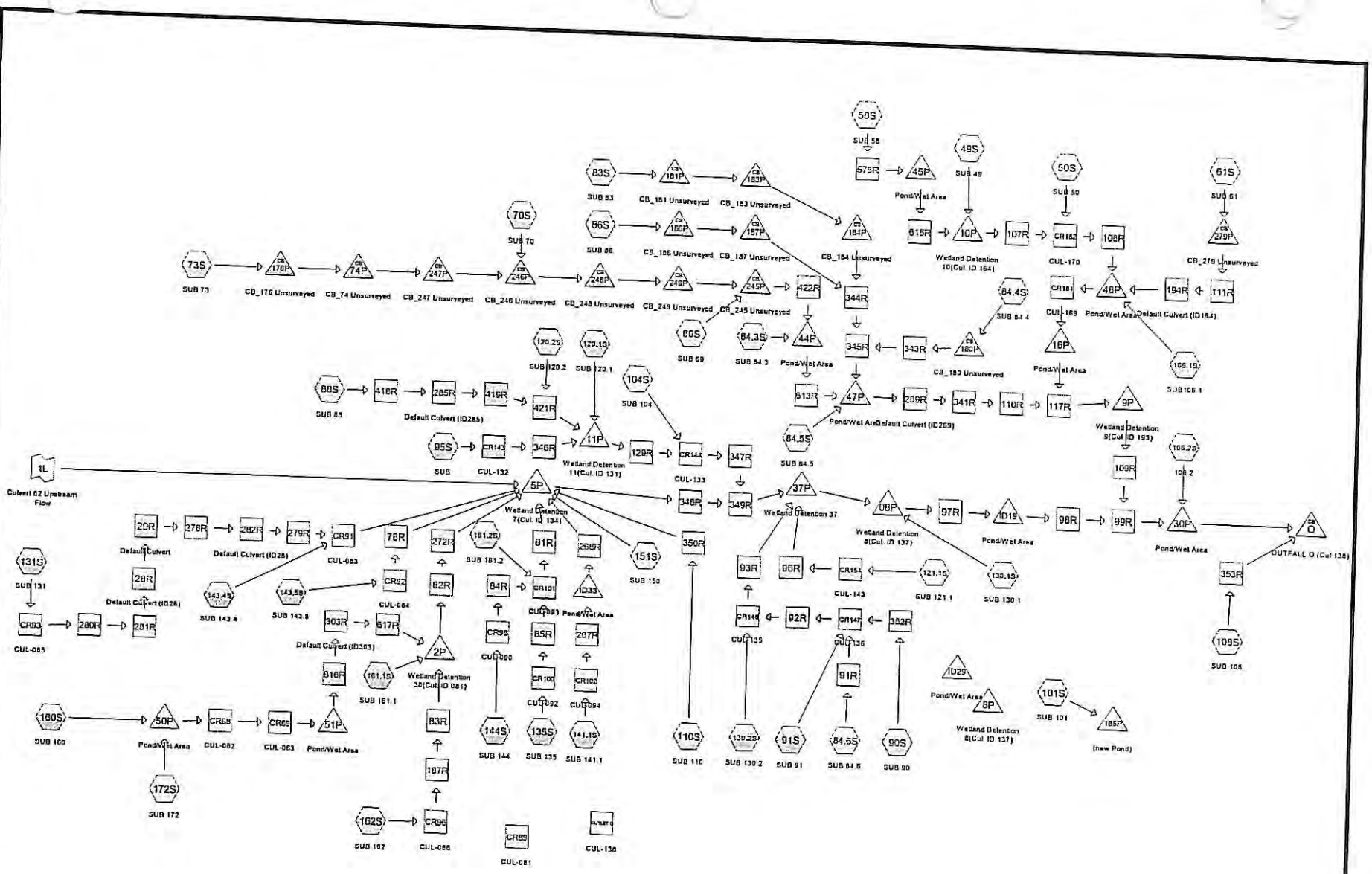
Pond 379P: (new Pond)
Inflow=56.31 cfs 8.265 af
Primary=56.31 cfs 8.265 af

Pond ID28: Pond/Wet Area Peak Elev=105.93' Storage=4.655 af Inflow=319.15 cfs 51.708 af
Outflow=525.59 cfs 47.479 af

Pond ID31: Pond/Wet Area Peak Elev=134.82' Storage=1.380 af Inflow=64.47 cfs 7.914 af
Outflow=98.91 cfs 6.611 af

Pond ID32: Pond/Wet Area Peak Elev=119.03' Storage=1.335 af Inflow=62.96 cfs 6.598 af
Outflow=75.10 cfs 5.319 af

Total Runoff Area = 861.280 ac Runoff Volume = 252.493 af Average Runoff Depth = 3.52"



Drainage Diagram for Area (O) Downstream (25 - Year)
Prepared by Edwards and Kelcey 7/5/2006
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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 49S: SUB 49
Runoff Area=25.580 ac Runoff Depth>2.90"
Flow Length=1,344' Tc=51.7 min CN=79 Runoff=40.57 cfs 6.175 af

Subcatchment 50S: SUB 50
Runoff Area=8.730 ac Runoff Depth>3.20"
Flow Length=791' Tc=27.3 min CN=82 Runoff=20.68 cfs 2.331 af

Subcatchment 58S: SUB 58
Runoff Area=1.270 ac Runoff Depth>3.51"
Flow Length=227' Tc=11.7 min CN=85 Runoff=4.54 cfs 0.372 af

Subcatchment 61S: SUB 61
Runoff Area=6.380 ac Runoff Depth>3.29"
Flow Length=650' Tc=33.6 min CN=83 Runoff=14.12 cfs 1.751 af

Subcatchment 69S: SUB 69
Runoff Area=4.930 ac Runoff Depth>3.61"
Flow Length=702' Tc=18.0 min CN=86 Runoff=15.36 cfs 1.482 af

Subcatchment 70S: SUB 70
Runoff Area=1.290 ac Runoff Depth>3.62"
Flow Length=294' Tc=9.1 min CN=86 Runoff=5.04 cfs 0.389 af

Subcatchment 73S: SUB 73
Runoff Area=4.670 ac Runoff Depth>3.28"
Flow Length=515' Tc=41.9 min CN=83 Runoff=9.27 cfs 1.278 af

Subcatchment 83S: SUB 83
Runoff Area=9.110 ac Runoff Depth>3.30"
Flow Length=1,523' Tc=26.0 min CN=83 Runoff=22.64 cfs 2.506 af

Subcatchment 84.3S: SUB 84.3
Runoff Area=41.890 ac Runoff Depth>2.56"
Flow Length=723' Tc=30.7 min CN=75 Runoff=76.01 cfs 8.934 af

Subcatchment 84.4S: SUB 84.4
Runoff Area=3.830 ac Runoff Depth>4.42"
Flow Length=759' Tc=25.2 min CN=94 Runoff=12.05 cfs 1.411 af

Subcatchment 84.5S: SUB 84.5
Runoff Area=55.100 ac Runoff Depth>2.70"
Flow Length=1,232' Tc=70.8 min CN=77 Runoff=67.99 cfs 12.378 af

Subcatchment 84.6S: SUB 84.6
Runoff Area=3.640 ac Runoff Depth>3.39"
Flow Length=440' Tc=31.3 min CN=84 Runoff=8.54 cfs 1.029 af

Subcatchment 86S: SUB 86
Runoff Area=1.220 ac Runoff Depth>3.31"
Flow Length=350' Tc=20.2 min CN=83 Runoff=3.38 cfs 0.336 af

Subcatchment 88S: SUB 88
Runoff Area=3.900 ac Runoff Depth>3.29"
Flow Length=782' Tc=32.9 min CN=83 Runoff=8.72 cfs 1.071 af

ubcatchment 90S: SUB 90
Runoff Area=2.230 ac Runoff Depth>3.21"
Flow Length=434' Tc=23.8 min CN=82 Runoff=5.61 cfs 0.596 af

Subcatchment 91S: SUB 91
Runoff Area=2.590 ac Runoff Depth>2.74"
Flow Length=368' Tc=27.3 min CN=77 Runoff=5.29 cfs 0.591 af

Subcatchment 95S: SUB
Runoff Area=1.770 ac Runoff Depth>3.10"
Flow Length=450' Tc=35.7 min CN=81 Runoff=3.61 cfs 0.457 af

Subcatchment 101S: SUB 101
Runoff Area=0.860 ac Runoff Depth>3.51"
Flow Length=150' Tc=12.6 min CN=85 Runoff=2.99 cfs 0.252 af

Subcatchment 104S: SUB 104
Runoff Area=2.370 ac Runoff Depth>3.40"
Flow Length=528' Tc=25.1 min CN=84 Runoff=6.13 cfs 0.672 af

Subcatchment 106.1S: SUB106.1
Runoff Area=27.600 ac Runoff Depth>3.18"
Flow Length=1,482' Tc=52.5 min CN=82 Runoff=47.16 cfs 7.308 af

Subcatchment 106.2S: 106.2
Runoff Area=69.320 ac Runoff Depth>2.86"
Flow Length=2,174' Tc=83.8 min CN=79 Runoff=81.84 cfs 16.533 af

Subcatchment 108S: SUB 108
Runoff Area=1.390 ac Runoff Depth>3.70"
Flow Length=268' Tc=25.7 min CN=87 Runoff=3.82 cfs 0.429 af

Subcatchment 110S: SUB 110
Runoff Area=2.530 ac Runoff Depth>3.31"
Flow Length=365' Tc=18.4 min CN=83 Runoff=7.27 cfs 0.698 af

Subcatchment 120.1S: SUB 120.1
Runoff Area=83.230 ac Runoff Depth>2.63"
Flow Length=3,262' Tc=45.8 min CN=76 Runoff=128.09 cfs 18.260 af

Subcatchment 120.2S: SUB 120.2
Runoff Area=3.020 ac Runoff Depth>3.12"
Flow Length=347' Tc=19.3 min CN=81 Runoff=8.07 cfs 0.784 af

Subcatchment 121.1S: SUB 121.1
Runoff Area=0.620 ac Runoff Depth>3.19"
Flow Length=240' Tc=38.4 min CN=82 Runoff=1.25 cfs 0.165 af

Subcatchment 130.1S: SUB 130.1
Runoff Area=88.630 ac Runoff Depth>2.93"
Flow Length=1,962' Tc=23.1 min CN=79 Runoff=207.30 cfs 21.611 af

Subcatchment 130.2S: SUB 130.2
Runoff Area=14.680 ac Runoff Depth>3.10"
Flow Length=1,460' Tc=38.1 min CN=81 Runoff=28.97 cfs 3.789 af

Subcatchment 131S: SUB 131
Runoff Area=19.210 ac Runoff Depth>2.81"
Flow Length=1,388' Tc=48.9 min CN=78 Runoff=30.47 cfs 4.496 af

Subcatchment 135S: SUB 135
Runoff Area=4.570 ac Runoff Depth>2.93"
Flow Length=562' Tc=23.4 min CN=79 Runoff=10.63 cfs 1.114 af

Subcatchment 141.1S: SUB 141.1
Runoff Area=0.880 ac Runoff Depth>3.41"
Flow Length=150' Tc=18.9 min CN=84 Runoff=2.57 cfs 0.250 af

Subcatchment 143.4S: SUB 143.4 Runoff Area=45.040 ac Runoff Depth>3.29"
Flow Length=2,564' Tc=38.3 min CN=83 Runoff=93.53 cfs 12.343 af

Subcatchment 143.5S: SUB 143.5 Runoff Area=2.320 ac Runoff Depth>2.65"
Flow Length=297' Tc=28.9 min CN=76 Runoff=4.47 cfs 0.512 af

Subcatchment 144S: SUB 144 Runoff Area=5.980 ac Runoff Depth>3.02"
Flow Length=320' Tc=25.2 min CN=80 Runoff=13.88 cfs 1.503 af

Subcatchment 151S: SUB 150 Runoff Area=162.220 ac Runoff Depth>2.66"
Flow Length=230' Tc=12.6 min CN=76 Runoff=434.87 cfs 36.018 af

Subcatchment 160S: SUB 160 Runoff Area=0.670 ac Runoff Depth>3.61"
Flow Length=253' Tc=12.2 min CN=86 Runoff=2.41 cfs 0.202 af

Subcatchment 161.1S: SUB 161.1 Runoff Area=61.100 ac Runoff Depth>2.80"
Flow Length=2,325' Tc=59.3 min CN=78 Runoff=86.55 cfs 14.246 af

Subcatchment 161.2S: SUB 161.2 Runoff Area=17.540 ac Runoff Depth>3.01"
Flow Length=847' Tc=35.4 min CN=80 Runoff=34.83 cfs 4.394 af

Subcatchment 162S: SUB 162 Runoff Area=11.660 ac Runoff Depth>2.99"
Flow Length=950' Tc=51.8 min CN=80 Runoff=19.01 cfs 2.905 af

Subcatchment 172S: SUB 172 Runoff Area=4.030 ac Runoff Depth>3.39"
Flow Length=555' Tc=32.2 min CN=84 Runoff=9.32 cfs 1.139 af

Reach 28R: Default Culvert (ID28) Peak Depth=0.45' Max Vel=5.0 fps Inflow=3.34 cfs 2.489 af
D=36.0" n=0.013 L=490.0' S=0.0102 '/' Capacity=67.38 cfs Outflow=3.33 cfs 2.474 af

Reach 29R: Default Culvert Peak Depth=0.42' Max Vel=5.6 fps Inflow=3.33 cfs 2.474 af
D=36.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=79.72 cfs Outflow=3.32 cfs 2.472 af

Reach 78R: Peak Depth=0.15' Max Vel=2.1 fps Inflow=2.39 cfs 0.512 af
n=0.040 L=201.0' S=0.0498 '/' Capacity=1,238.97 cfs Outflow=2.31 cfs 0.511 af

Reach 81R: Peak Depth=0.69' Max Vel=2.7 fps Inflow=24.36 cfs 6.984 af
n=0.040 L=1,189.0' S=0.0156 '/' Capacity=692.87 cfs Outflow=24.36 cfs 6.925 af

Reach 82R: Peak Depth=0.62' Max Vel=1.8 fps Inflow=13.89 cfs 7.042 af
n=0.040 L=1,183.0' S=0.0080 '/' Capacity=495.93 cfs Outflow=13.88 cfs 6.700 af

Reach 83R: Peak Depth=0.50' Max Vel=1.1 fps Inflow=5.94 cfs 2.885 af
n=0.040 L=1,712.0' S=0.0036 '/' Capacity=332.92 cfs Outflow=5.94 cfs 2.797 af

Reach 84R: Peak Depth=0.35' Max Vel=1.5 fps Inflow=5.17 cfs 1.503 af
n=0.040 L=998.0' S=0.0103 '/' Capacity=562.93 cfs Outflow=5.17 cfs 1.484 af

Reach 85R:
Peak Depth=0.26' Max Vel=2.6 fps Inflow=6.28 cfs 1.114 af
n=0.040 L=617.0' S=0.0404 '/' Capacity=1,117.00 cfs Outflow=5.74 cfs 1.108 af

Reach 91R:
Peak Depth=0.32' Max Vel=2.9 fps Inflow=8.54 cfs 1.029 af
n=0.035 L=368.0' S=0.0309 '/' Capacity=1,115.85 cfs Outflow=8.47 cfs 1.026 af

Reach 92R:
Peak Depth=0.38' Max Vel=1.7 fps Inflow=6.16 cfs 2.210 af
n=0.035 L=490.0' S=0.0087 '/' Capacity=591.22 cfs Outflow=6.07 cfs 2.198 af

Reach 93R:
Peak Depth=0.34' Max Vel=1.0 fps Inflow=3.11 cfs 2.491 af
n=0.040 L=133.0' S=0.0044 '/' Capacity=366.82 cfs Outflow=3.06 cfs 2.472 af

Reach 96R:
Peak Depth=0.25' Max Vel=0.4 fps Inflow=1.25 cfs 0.165 af
n=0.050 L=700.0' S=0.0020 '/' Capacity=198.73 cfs Outflow=0.96 cfs 0.159 af

Reach 97R:
Peak Depth=2.96' Max Vel=5.0 fps Inflow=262.51 cfs 144.417 af
n=0.050 L=90.0' S=0.0133 '/' Capacity=269.81 cfs Outflow=262.51 cfs 144.200 af

Reach 98R:
Peak Depth=7.70' Max Vel=1.3 fps Inflow=262.54 cfs 143.045 af
n=0.080 L=624.0' S=0.0016 '/' Capacity=58.46 cfs Outflow=262.47 cfs 137.508 af

Reach 99R:
Peak Depth=4.83' Max Vel=2.5 fps Inflow=273.46 cfs 156.887 af
n=0.080 L=318.0' S=0.0063 '/' Capacity=115.81 cfs Outflow=273.46 cfs 155.314 af

Reach 107R:
Peak Depth=1.12' Max Vel=3.4 fps Inflow=36.01 cfs 6.175 af
n=0.035 L=614.0' S=0.0087 '/' Capacity=264.58 cfs Outflow=35.95 cfs 6.149 af

Reach 108R:
Peak Depth=0.80' Max Vel=3.6 fps Inflow=23.97 cfs 8.479 af
n=0.035 L=325.0' S=0.0138 '/' Capacity=332.90 cfs Outflow=24.01 cfs 8.463 af

Reach 109R:
Peak Depth=1.32' Max Vel=3.2 fps Inflow=85.05 cfs 19.518 af
n=0.040 L=757.0' S=0.0106 '/' Capacity=571.03 cfs Outflow=81.73 cfs 19.379 af

Reach 110R:
Peak Depth=1.43' Max Vel=2.8 fps Inflow=82.22 cfs 20.076 af
n=0.040 L=269.0' S=0.0074 '/' Capacity=478.96 cfs Outflow=82.12 cfs 20.023 af

Reach 111R:
Peak Depth=0.64' Max Vel=2.8 fps Inflow=14.12 cfs 1.751 af
n=0.035 L=376.0' S=0.0106 '/' Capacity=291.80 cfs Outflow=14.03 cfs 1.745 af

Reach 117R:
Peak Depth=1.56' Max Vel=2.4 fps Inflow=82.12 cfs 20.023 af
n=0.040 L=1,012.0' S=0.0049 '/' Capacity=390.44 cfs Outflow=81.88 cfs 19.789 af

Reach 129R:
Peak Depth=0.96' Max Vel=2.2 fps Inflow=33.06 cfs 19.109 af
n=0.040 L=70.0' S=0.0071 '/' Capacity=469.46 cfs Outflow=33.06 cfs 19.079 af

Reach 187R:
Peak Depth=0.41' Max Vel=1.4 fps Inflow=5.97 cfs 2.904 af
n=0.040 L=512.0' S=0.0074 '/' Capacity=478.54 cfs Outflow=5.94 cfs 2.885 af

Reach 194R: Default Culvert (ID194) Peak Depth=0.70' Max Vel=11.1 fps Inflow=14.03 cfs 1.745 af
D=36.0" n=0.013 L=33.0' S=0.0303 '/' Capacity=116.11 cfs Outflow=14.02 cfs 1.745 af

Reach 267R: Peak Depth=0.12' Max Vel=2.7 fps Inflow=2.33 cfs 0.250 af
n=0.040 L=381.0' S=0.1115 '/' Capacity=1,855.20 cfs Outflow=2.17 cfs 0.249 af

Reach 268R: Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.040 L=150.0' S=0.0267 '/' Capacity=907.08 cfs Outflow=0.00 cfs 0.000 af

Reach 269R: Default Culvert (ID269) Peak Depth=3.00' Max Vel=13.2 fps Inflow=95.28 cfs 20.376 af
D=36.0" n=0.013 L=33.0' S=0.0152 '/' Capacity=82.10 cfs Outflow=87.58 cfs 20.357 af

Reach 272R: Peak Depth=0.80' Max Vel=1.2 fps Inflow=13.88 cfs 6.700 af
n=0.080 L=296.0' S=0.0108 '/' Capacity=288.77 cfs Outflow=13.88 cfs 6.570 af

Reach 278R: Peak Depth=0.64' Max Vel=1.9 fps Inflow=3.32 cfs 2.472 af
n=0.030 L=215.0' S=0.0047 '/' Capacity=38.47 cfs Outflow=3.31 cfs 2.455 af

Reach 279R: Peak Depth=0.46' Max Vel=2.9 fps Inflow=3.30 cfs 2.428 af
n=0.030 L=133.0' S=0.0163 '/' Capacity=72.05 cfs Outflow=3.30 cfs 2.422 af

Reach 280R: Peak Depth=0.17' Max Vel=2.6 fps Inflow=3.46 cfs 2.525 af
n=0.035 L=410.0' S=0.0513 '/' Capacity=1,438.42 cfs Outflow=3.36 cfs 2.501 af

Reach 281R: Peak Depth=0.26' Max Vel=1.5 fps Inflow=3.36 cfs 2.501 af
n=0.030 L=125.0' S=0.0080 '/' Capacity=662.43 cfs Outflow=3.34 cfs 2.489 af

Reach 282R: Default Culvert (ID28) Peak Depth=0.67' Max Vel=2.8 fps Inflow=3.31 cfs 2.455 af
D=36.0" n=0.013 L=490.0' S=0.0020 '/' Capacity=30.13 cfs Outflow=3.30 cfs 2.428 af

Reach 285R: Default Culvert (ID285) Peak Depth=0.58' Max Vel=9.0 fps Inflow=8.65 cfs 1.066 af
D=36.0" n=0.013 L=40.0' S=0.0250 '/' Capacity=105.46 cfs Outflow=8.65 cfs 1.066 af

Reach 303R: Default Culvert (ID303) Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
D=36.0" n=0.013 L=50.0' S=0.0200 '/' Capacity=94.33 cfs Outflow=0.00 cfs 0.000 af

Reach 341R: Peak Depth=1.43' Max Vel=2.8 fps Inflow=87.58 cfs 20.357 af
n=0.040 L=1,469.0' S=0.0075 '/' Capacity=480.67 cfs Outflow=82.22 cfs 20.076 af

Reach 343R: Peak Depth=0.40' Max Vel=3.0 fps Inflow=12.05 cfs 1.411 af
n=0.035 L=617.0' S=0.0259 '/' Capacity=1,022.28 cfs Outflow=11.81 cfs 1.405 af

Reach 344R: Peak Depth=0.61' Max Vel=3.5 fps Inflow=25.79 cfs 2.843 af
n=0.040 L=417.0' S=0.0300 '/' Capacity=961.71 cfs Outflow=25.55 cfs 2.835 af

Reach 345R: Peak Depth=0.84' Max Vel=3.1 fps Inflow=37.30 cfs 4.240 af
n=0.040 L=377.0' S=0.0159 '/' Capacity=700.75 cfs Outflow=36.88 cfs 4.229 af

Reach 346R: Peak Depth=0.57' Max Vel=0.5 fps Inflow=3.60 cfs 0.457 af
n=0.040 L=80.0' S=0.0008 '/' Capacity=152.12 cfs Outflow=3.57 cfs 0.455 af

Reach 347R: Peak Depth=0.46' Max Vel=3.1 fps Inflow=15.50 cfs 11.193 af
n=0.035 L=1,080.0' S=0.0250 '/' Capacity=1,003.74 cfs Outflow=15.08 cfs 10.958 af

Reach 348R: Peak Depth=3.10' Max Vel=4.2 fps Inflow=240.72 cfs 139.799 af
n=0.040 L=423.0' S=0.0059 '/' Capacity=224.54 cfs Outflow=240.72 cfs 138.735 af

Reach 349R: Peak Depth=4.10' Max Vel=2.9 fps Inflow=255.47 cfs 149.693 af
n=0.040 L=863.0' S=0.0023 '/' Capacity=140.61 cfs Outflow=255.46 cfs 146.362 af

Reach 350R: Peak Depth=0.41' Max Vel=5.5 fps Inflow=7.27 cfs 0.698 af
n=0.035 L=107.0' S=0.0879 '/' Capacity=213.54 cfs Outflow=7.24 cfs 0.697 af

Reach 352R: Peak Depth=0.44' Max Vel=3.8 fps Inflow=5.61 cfs 0.596 af
n=0.030 L=888.0' S=0.0286 '/' Capacity=142.07 cfs Outflow=5.44 cfs 0.593 af

Reach 353R: Peak Depth=0.25' Max Vel=1.7 fps Inflow=3.82 cfs 0.429 af
n=0.040 L=738.0' S=0.0190 '/' Capacity=765.06 cfs Outflow=3.58 cfs 0.424 af

Reach 418R: Peak Depth=0.31' Max Vel=3.1 fps Inflow=8.72 cfs 1.071 af
n=0.040 L=530.0' S=0.0509 '/' Capacity=1,253.73 cfs Outflow=8.65 cfs 1.066 af

Reach 419R: Peak Depth=0.40' Max Vel=2.2 fps Inflow=8.65 cfs 1.066 af
n=0.040 L=112.0' S=0.0179 '/' Capacity=742.28 cfs Outflow=8.62 cfs 1.065 af

Reach 421R: Peak Depth=0.68' Max Vel=1.4 fps Inflow=13.86 cfs 1.849 af
n=0.040 L=1,465.0' S=0.0041 '/' Capacity=357.55 cfs Outflow=11.94 cfs 1.807 af

Reach 422R: Peak Depth=0.90' Max Vel=1.5 fps Inflow=24.14 cfs 3.149 af
n=0.050 L=1,477.0' S=0.0054 '/' Capacity=327.04 cfs Outflow=19.84 cfs 3.086 af

Reach 576R: Peak Depth=0.28' Max Vel=1.8 fps Inflow=4.54 cfs 0.372 af
n=0.040 L=341.0' S=0.0176 '/' Capacity=736.81 cfs Outflow=4.30 cfs 0.370 af

Reach 613R: Peak Depth=0.77' Max Vel=2.4 fps Inflow=63.94 cfs 5.082 af
n=0.040 L=1,357.0' S=0.0103 '/' Capacity=564.20 cfs Outflow=24.92 cfs 4.951 af

Reach 615R: Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.035 L=1,207.0' S=0.0135 '/' Capacity=328.77 cfs Outflow=0.00 cfs 0.000 af

Reach 616R: Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.035 L=235.0' S=0.0085 '/' Capacity=585.64 cfs Outflow=0.00 cfs 0.000 af

Reach 617R: Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.040 L=875.0' S=0.0070 '/' Capacity=465.69 cfs Outflow=0.00 cfs 0.000 af

Reach CR100: CUL-092 Peak Depth=1.50' Max Vel=3.7 fps Inflow=10.63 cfs 1.114 af
D=18.0" n=0.024 L=50.0' S=0.0100 '/' Capacity=5.69 cfs Outflow=6.28 cfs 1.114 af

Reach CR101: CUL-093 Peak Depth=3.00' Max Vel=3.9 fps Inflow=45.44 cfs 6.986 af
D=36.0" n=0.024 L=55.0' S=0.0045 '/' Capacity=24.36 cfs Outflow=24.36 cfs 6.984 af

Reach CR102: CUL-094 Peak Depth=1.25' Max Vel=2.0 fps Inflow=2.57 cfs 0.250 af
D=15.0" n=0.024 L=45.0' S=0.0038 '/' Capacity=2.15 cfs Outflow=2.33 cfs 0.250 af

Reach CR143: CUL-132 Peak Depth=1.11' Max Vel=2.6 fps Inflow=3.61 cfs 0.457 af
D=18.0" n=0.024 L=70.0' S=0.0050 '/' Capacity=4.02 cfs Outflow=3.60 cfs 0.457 af

Reach CR144: CUL-133 Peak Depth=3.00' Max Vel=2.4 fps Inflow=33.78 cfs 19.751 af
D=36.0" n=0.024 L=120.0' S=0.0017 '/' Capacity=14.75 cfs Outflow=15.50 cfs 11.193 af

Reach CR146: CUL-135 Peak Depth=1.25' Max Vel=2.7 fps Inflow=35.03 cfs 5.987 af
D=15.0" n=0.024 L=35.0' S=0.0071 '/' Capacity=2.96 cfs Outflow=3.11 cfs 2.491 af

Reach CR147: CUL-136 Peak Depth=1.25' Max Vel=5.6 fps Inflow=18.95 cfs 2.210 af
D=15.0" n=0.024 L=35.0' S=0.0300 '/' Capacity=6.06 cfs Outflow=6.16 cfs 2.210 af

Reach CR154: CUL-143 Peak Depth=0.48' Max Vel=2.6 fps Inflow=1.25 cfs 0.165 af
D=18.0" n=0.024 L=50.0' S=0.0100 '/' Capacity=5.69 cfs Outflow=1.25 cfs 0.165 af

Reach CR181: CUL-169 Peak Depth=1.50' Max Vel=2.4 fps Inflow=33.16 cfs 5.407 af
D=18.0" n=0.024 L=40.0' S=0.0042 '/' Capacity=3.71 cfs Outflow=3.85 cfs 1.997 af

Reach CR182: CUL-170 Peak Depth=2.67' Max Vel=4.9 fps Inflow=43.88 cfs 8.480 af
D=32.0" n=0.024 L=40.0' S=0.0082 '/' Capacity=23.97 cfs Outflow=23.97 cfs 8.479 af

Reach CR68: CUL-062 Peak Depth=0.67' Max Vel=3.4 fps Inflow=9.90 cfs 0.609 af
D=8.0" n=0.013 L=40.0' S=0.0082 '/' Capacity=1.10 cfs Outflow=1.10 cfs 0.608 af

Reach CR69: CUL-063 Peak Depth=0.59' Max Vel=2.5 fps Inflow=1.10 cfs 0.608 af
D=12.0" n=0.025 L=40.0' S=0.0100 '/' Capacity=1.85 cfs Outflow=1.18 cfs 0.607 af

Reach CR89: CUL-081 Peak Depth=0.00' Max Vel=0.0 fps
D=36.0" n=0.024 L=55.0' S=0.0076 '/' Capacity=31.57 cfs Outflow=0.00 cfs 0.000 af

Reach CR91: CUL-083 Peak Depth=2.00' Max Vel=2.5 fps Inflow=96.80 cfs 14.765 af
D=24.0" n=0.024 L=70.0' S=0.0033 '/' Capacity=7.02 cfs Outflow=7.30 cfs 6.043 af

Reach CR92: CUL-084 Peak Depth=1.25' Max Vel=2.1 fps Inflow=4.47 cfs 0.512 af
D=15.0" n=0.024 L=40.0' S=0.0043 '/' Capacity=2.28 cfs Outflow=2.39 cfs 0.512 af

Reach CR93: CUL-085 Peak Depth=1.25' Max Vel=3.0 fps Inflow=30.47 cfs 4.496 af
D=15.0" n=0.024 L=48.0' S=0.0088 '/' Capacity=3.27 cfs Outflow=3.46 cfs 2.525 af

Reach CR96: CUL-088 Peak Depth=1.25' Max Vel=5.5 fps Inflow=19.01 cfs 2.905 af
D=15.0" n=0.010 L=40.0' S=0.0050 '/' Capacity=5.94 cfs Outflow=5.97 cfs 2.904 af

Reach CR98: CUL-090 Peak Depth=1.50' Max Vel=3.3 fps Inflow=13.88 cfs 1.503 af
D=18.0" n=0.024 L=40.0' S=0.0082 '/' Capacity=5.17 cfs Outflow=5.17 cfs 1.503 af

Reach OUTLET O: CUL-138 Peak Depth=0.00' Max Vel=0.0 fps
D=66.0" n=0.015 L=55.0' S=0.0091 '/' Capacity=277.49 cfs Outflow=0.00 cfs 0.000 af

Pond 2P: Wetland Detention 30(Cul. ID 08 Peak Elev=45.69' Storage=11.232 af Inflow=90.00 cfs 17.043 af
Outflow=13.89 cfs 7.042 af

Pond 5P: Wetland Detention 7(Cul. ID 1 Peak Elev=34.05' Storage=68.601 af Inflow=511.53 cfs 202.212 af
Outflow=240.72 cfs 139.799 af

Pond 08P: Wetland Detention 8(Cul. ID 1 Peak Elev=18.16' Storage=0.716 af Inflow=262.53 cfs 145.117 af
Outflow=262.51 cfs 144.417 af

Pond 8P: Wetland Detention 8(Cul. ID 137) Peak Elev=0.00' Storage=0.000 af
Primary=0.00 cfs 0.000 af

Pond 9P: Wetland Detention 9(Cul. ID 193) Peak Elev=20.63' Storage=0.275 af Inflow=81.88 cfs 19.789 af
Outflow=85.05 cfs 19.518 af

Pond 10P: Wetland Detention 10(Cul. ID 164 Peak Elev=39.26' Storage=0.274 af Inflow=40.57 cfs 6.175 af
Outflow=36.01 cfs 6.175 af

Pond 11P: Wetland Detention 11(Cul. ID 1 Peak Elev=56.59' Storage=8.571 af Inflow=140.31 cfs 20.522 af
Outflow=33.06 cfs 19.109 af

Pond 16P: Pond/Wet Area Peak Elev=22.97' Storage=1.990 af Inflow=3.85 cfs 1.997 af
Outflow=0.00 cfs 0.000 af

Pond 30P: Pond/Wet Area Peak Elev=12.93' Storage=1.205 af Inflow=279.82 cfs 171.847 af
Outflow=305.10 cfs 170.695 af

Pond 37P: Wetland Detention 37 Peak Elev=23.95' Storage=25.644 af Inflow=258.49 cfs 148.993 af
Outflow=256.29 cfs 123.507 af

Pond 44P: Pond/Wet Area Peak Elev=53.80' Storage=7.000 af Inflow=88.42 cfs 12.020 af
Outflow=63.94 cfs 5.082 af

Pond 45P: Pond/Wet Area Peak Elev=48.40' Storage=0.370 af Inflow=4.30 cfs 0.370 af
Outflow=0.00 cfs 0.000 af

Pond 47P: Pond/Wet Area Peak Elev=40.34' Storage=1.200 af Inflow=86.62 cfs 21.558 af
Outflow=95.28 cfs 20.376 af

Pond 48P: Pond/Wet Area Peak Elev=39.39' Storage=12.245 af Inflow=83.68 cfs 17.516 af
18.0" x 1.0' Culvert Outflow=33.16 cfs 5.407 af

Pond 50P: Pond/Wet Area Peak Elev=58.52' Storage=0.741 af Inflow=10.52 cfs 1.341 af
Outflow=9.90 cfs 0.609 af

Pond 51P: Pond/Wet Area Peak Elev=50.76' Storage=0.607 af Inflow=1.18 cfs 0.607 af
Outflow=0.00 cfs 0.000 af

Pond 74P: CB_74 Unsurveyed Peak Elev=101.31' Inflow=9.27 cfs 1.278 af
12.0" x 198.0' Culvert Outflow=9.27 cfs 1.278 af

Pond 176P: CB_176 Unsurveyed Peak Elev=102.31' Inflow=9.27 cfs 1.278 af
12.0" x 44.0' Culvert Outflow=9.27 cfs 1.278 af

Pond 180P: CB_180 Unsurveyed Peak Elev=71.14' Inflow=12.05 cfs 1.411 af
12.0" x 50.0' Culvert Outflow=12.05 cfs 1.411 af

Pond 181P: CB_181 Unsurveyed Peak Elev=149.58' Inflow=22.64 cfs 2.506 af
12.0" x 297.0' Culvert Outflow=22.64 cfs 2.506 af

Pond 183P: CB_183 Unsurveyed Peak Elev=94.35' Inflow=22.64 cfs 2.506 af
12.0" x 50.0' Culvert Outflow=22.64 cfs 2.506 af

Pond 184P: CB_184 Unsurveyed Peak Elev=93.85' Inflow=22.64 cfs 2.506 af
12.0" x 20.0' Culvert Outflow=22.64 cfs 2.506 af

Pond 185P: (new Pond) Inflow=2.99 cfs 0.252 af
Primary=2.99 cfs 0.252 af

Pond 186P: CB_186 Unsurveyed Peak Elev=54.30' Inflow=3.38 cfs 0.336 af
12.0" x 30.0' Culvert Outflow=3.38 cfs 0.336 af

Pond 187P: CB_187 Unsurveyed Peak Elev=54.00' Inflow=3.38 cfs 0.336 af
12.0" x 20.0' Culvert Outflow=3.38 cfs 0.336 af

Pond 245P: CB_245 Unsurveyed Peak Elev=137.51' Inflow=24.14 cfs 3.149 af
12.0" x 200.0' Culvert Outflow=24.14 cfs 3.149 af

Pond 246P: CB_246 Unsurveyed Peak Elev=93.04' Inflow=10.61 cfs 1.667 af
12.0" x 300.0' Culvert Outflow=10.61 cfs 1.667 af

Pond 247P: CB_247 Unsurveyed Peak Elev=91.31' Inflow=9.27 cfs 1.278 af
12.0" x 34.0' Culvert Outflow=9.27 cfs 1.278 af

Pond 248P: CB_248 Unsurveyed Peak Elev=80.17' Inflow=10.61 cfs 1.667 af
12.0" x 44.0' Culvert Outflow=10.61 cfs 1.667 af

Pond 249P: CB_249 Unsurveyed Peak Elev=79.37' Inflow=10.61 cfs 1.667 af
12.0" x 217.0' Culvert Outflow=10.61 cfs 1.667 af

Pond 279P: CB_279 Unsurveyed Peak Elev=48.44' Inflow=14.12 cfs 1.751 af
12.0" x 56.0' Culvert Outflow=14.12 cfs 1.751 af

Pond ID19: Pond/Wet Area Peak Elev=15.51' Storage=1.155 af Inflow=262.51 cfs 144.200 af
Outflow=262.54 cfs 143.045 af

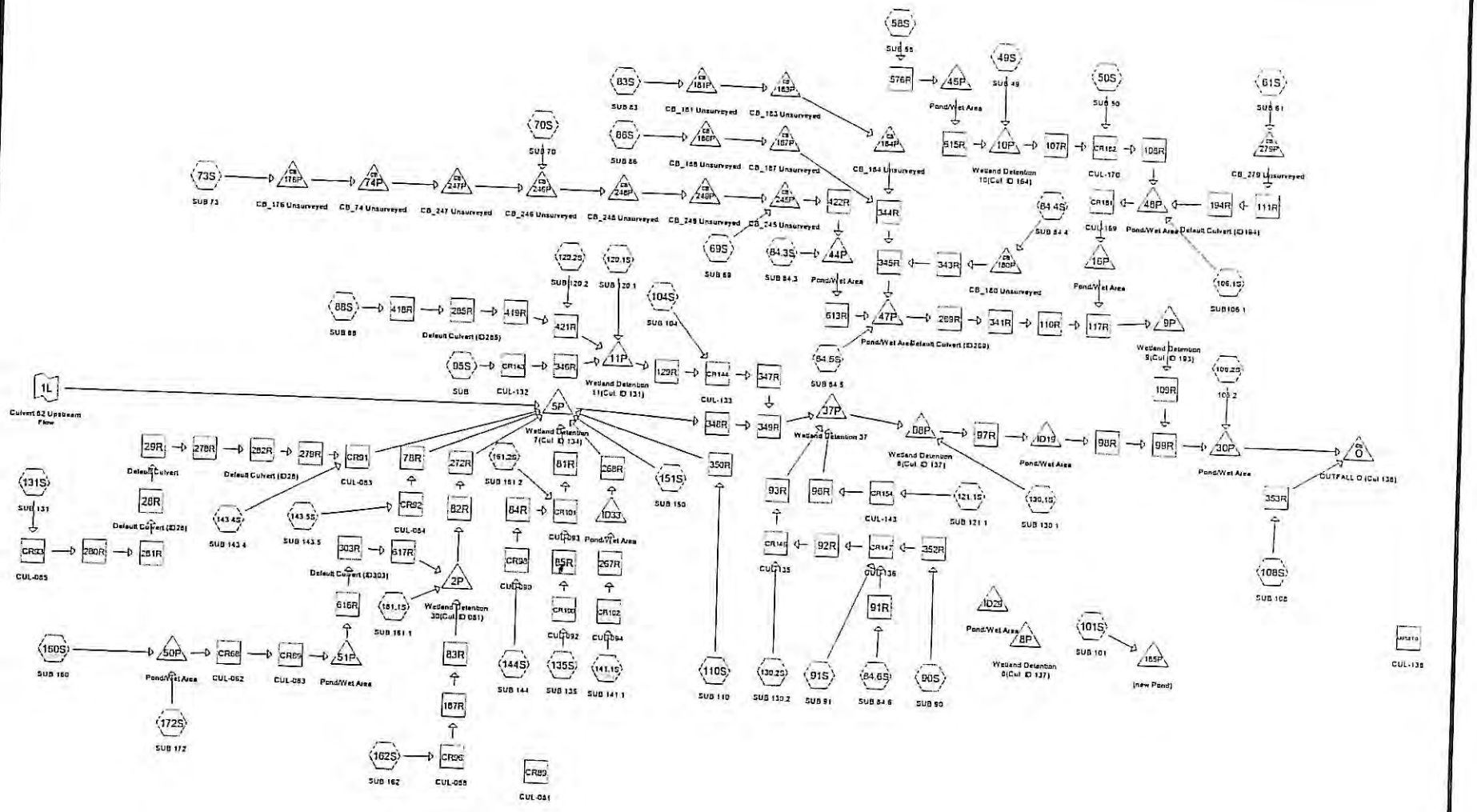
Pond ID29: Pond/Wet Area Peak Elev=0.00' Storage=0.000 af
Primary=0.00 cfs 0.000 af

Pond ID33: Pond/Wet Area Peak Elev=28.05' Storage=0.249 af Inflow=2.17 cfs 0.249 af
Outflow=0.00 cfs 0.000 af

Pond O: OUTFALL O (Cul 138) Peak Elev=10.46' Inflow=305.23 cfs 171.119 af
25.00' x 5.50' x 55.0' Culvert Outflow=305.23 cfs 171.119 af

York Watershed Current\OUTFALL O\Upstream\Area (O) Upstream (25 - Year)~Pond 5P Inflow=296.41 cfs 145.447 af
Primary=296.41 cfs 145.447 af

Total Runoff Area = 807.600 ac Runoff Volume = 192.710 af Average Runoff Depth = 2.86"



Drainage Diagram for Area (O) Downstream (50 - Year)

Prepared by Edwards and Kelcey 7/5/2006

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 49S: SUB 49 Runoff Area=25.580 ac Runoff Depth>3.23"
Flow Length=1,344' Tc=51.7 min CN=79 Runoff=45.10 cfs 6.879 af

Subcatchment 50S: SUB 50 Runoff Area=8.730 ac Runoff Depth>3.55"
Flow Length=791' Tc=27.3 min CN=82 Runoff=22.83 cfs 2.581 af

Subcatchment 58S: SUB 58 Runoff Area=1.270 ac Runoff Depth>3.87"
Flow Length=227' Tc=11.7 min CN=85 Runoff=4.97 cfs 0.409 af

Subcatchment 61S: SUB 61 Runoff Area=6.380 ac Runoff Depth>3.64"
Flow Length=650' Tc=33.6 min CN=83 Runoff=15.55 cfs 1.936 af

Subcatchment 69S: SUB 69 Runoff Area=4.930 ac Runoff Depth>3.97"
Flow Length=702' Tc=18.0 min CN=86 Runoff=16.81 cfs 1.629 af

Subcatchment 70S: SUB 70 Runoff Area=1.290 ac Runoff Depth>3.98"
Flow Length=294' Tc=9.1 min CN=86 Runoff=5.52 cfs 0.427 af

Subcatchment 73S: SUB 73 Runoff Area=4.670 ac Runoff Depth>3.63"
Flow Length=515' Tc=41.9 min CN=83 Runoff=10.21 cfs 1.413 af

Subcatchment 83S: SUB 83 Runoff Area=9.110 ac Runoff Depth>3.65"
Flow Length=1,523' Tc=26.0 min CN=83 Runoff=24.94 cfs 2.771 af

Subcatchment 84.3S: SUB 84.3 Runoff Area=41.890 ac Runoff Depth>2.87"
Flow Length=723' Tc=30.7 min CN=75 Runoff=85.30 cfs 10.031 af

Subcatchment 84.4S: SUB 84.4 Runoff Area=3.830 ac Runoff Depth>4.79"
Flow Length=759' Tc=25.2 min CN=94 Runoff=13.00 cfs 1.528 af

Subcatchment 84.5S: SUB 84.5 Runoff Area=55.100 ac Runoff Depth>3.02"
Flow Length=1,232' Tc=70.8 min CN=77 Runoff=75.96 cfs 13.845 af

Subcatchment 84.6S: SUB 84.6 Runoff Area=3.640 ac Runoff Depth>3.74"
Flow Length=440' Tc=31.3 min CN=84 Runoff=9.39 cfs 1.136 af

Subcatchment 86S: SUB 86 Runoff Area=1.220 ac Runoff Depth>3.66"
Flow Length=350' Tc=20.2 min CN=83 Runoff=3.72 cfs 0.372 af

Subcatchment 88S: SUB 88 Runoff Area=3.900 ac Runoff Depth>3.64"
Flow Length=782' Tc=32.9 min CN=83 Runoff=9.60 cfs 1.184 af

Subcatchment 90S: SUB 90 Runoff Area=2.230 ac Runoff Depth>3.55"
Flow Length=434' Tc=23.8 min CN=82 Runoff=6.19 cfs 0.660 af

Subcatchment 91S: SUB 91
Runoff Area=2.590 ac Runoff Depth>3.06"
Flow Length=368' Tc=27.3 min CN=77 Runoff=5.91 cfs 0.661 af

Subcatchment 95S: SUB
Runoff Area=1.770 ac Runoff Depth>3.44"
Flow Length=450' Tc=35.7 min CN=81 Runoff=3.99 cfs 0.507 af

Subcatchment 101S: SUB 101
Runoff Area=0.860 ac Runoff Depth>3.87"
Flow Length=150' Tc=12.6 min CN=85 Runoff=3.28 cfs 0.277 af

Subcatchment 104S: SUB 104
Runoff Area=2.370 ac Runoff Depth>3.75"
Flow Length=528' Tc=25.1 min CN=84 Runoff=6.74 cfs 0.741 af

Subcatchment 106.1S: SUB106.1
Runoff Area=27.600 ac Runoff Depth>3.52"
Flow Length=1,482' Tc=52.5 min CN=82 Runoff=52.07 cfs 8.094 af

Subcatchment 106.2S: 106.2
Runoff Area=69.320 ac Runoff Depth>3.19"
Flow Length=2,174' Tc=83.8 min CN=79 Runoff=91.03 cfs 18.421 af

Subcatchment 108S: SUB 108
Runoff Area=1.390 ac Runoff Depth>4.06"
Flow Length=268' Tc=25.7 min CN=87 Runoff=4.18 cfs 0.470 af

Subcatchment 110S: SUB 110
Runoff Area=2.530 ac Runoff Depth>3.66"
Flow Length=365' Tc=18.4 min CN=83 Runoff=8.00 cfs 0.771 af

Subcatchment 120.1S: SUB 120.1
Runoff Area=83.230 ac Runoff Depth>2.95"
Flow Length=3,262' Tc=45.8 min CN=76 Runoff=143.40 cfs 20.461 af

Subcatchment 120.2S: SUB 120.2
Runoff Area=3.020 ac Runoff Depth>3.46"
Flow Length=347' Tc=19.3 min CN=81 Runoff=8.92 cfs 0.870 af

Subcatchment 121.1S: SUB 121.1
Runoff Area=0.620 ac Runoff Depth>3.54"
Flow Length=240' Tc=38.4 min CN=82 Runoff=1.38 cfs 0.183 af

Subcatchment 130.1S: SUB 130.1
Runoff Area=88.630 ac Runoff Depth>3.26"
Flow Length=1,962' Tc=23.1 min CN=79 Runoff=230.38 cfs 24.067 af

Subcatchment 130.2S: SUB 130.2
Runoff Area=14.680 ac Runoff Depth>3.44"
Flow Length=1,460' Tc=38.1 min CN=81 Runoff=32.05 cfs 4.204 af

Subcatchment 131S: SUB 131
Runoff Area=19.210 ac Runoff Depth>3.13"
Flow Length=1,388' Tc=48.9 min CN=78 Runoff=33.95 cfs 5.018 af

Subcatchment 135S: SUB 135
Runoff Area=4.570 ac Runoff Depth>3.26"
Flow Length=562' Tc=23.4 min CN=79 Runoff=11.81 cfs 1.241 af

Subcatchment 141.1S: SUB 141.1
Runoff Area=0.880 ac Runoff Depth>3.76"
Flow Length=150' Tc=18.9 min CN=84 Runoff=2.82 cfs 0.276 af

Subcatchment 143.4S: SUB 143.4 Runoff Area=45.040 ac Runoff Depth>3.64"
Flow Length=2,564' Tc=38.3 min CN=83 Runoff=103.03 cfs 13.645 af

Subcatchment 143.5S: SUB 143.5 Runoff Area=2.320 ac Runoff Depth>2.97"
Flow Length=297' Tc=28.9 min CN=76 Runoff=5.01 cfs 0.574 af

Subcatchment 144S: SUB 144 Runoff Area=5.980 ac Runoff Depth>3.35"
Flow Length=320' Tc=25.2 min CN=80 Runoff=15.38 cfs 1.671 af

Subcatchment 151S: SUB 150 Runoff Area=162.220 ac Runoff Depth>2.98"
Flow Length=230' Tc=12.6 min CN=76 Runoff=486.72 cfs 40.350 af

Subcatchment 160S: SUB 160 Runoff Area=0.670 ac Runoff Depth>3.97"
Flow Length=253' Tc=12.2 min CN=86 Runoff=2.64 cfs 0.222 af

Subcatchment 161.1S: SUB 161.1 Runoff Area=61.100 ac Runoff Depth>3.12"
Flow Length=2,325' Tc=59.3 min CN=78 Runoff=96.44 cfs 15.901 af

Subcatchment 161.2S: SUB 161.2 Runoff Area=17.540 ac Runoff Depth>3.34"
Flow Length=847' Tc=35.4 min CN=80 Runoff=38.61 cfs 4.885 af

Subcatchment 162S: SUB 162 Runoff Area=11.660 ac Runoff Depth>3.32"
Flow Length=950' Tc=51.8 min CN=80 Runoff=21.09 cfs 3.229 af

Subcatchment 172S: SUB 172 Runoff Area=4.030 ac Runoff Depth>3.74"
Flow Length=555' Tc=32.2 min CN=84 Runoff=10.25 cfs 1.257 af

Reach 28R: Default Culvert (ID28) Peak Depth=0.45' Max Vel=4.9 fps Inflow=3.30 cfs 2.550 af
D=36.0" n=0.013 L=490.0' S=0.0102 '/' Capacity=67.38 cfs Outflow=3.29 cfs 2.535 af

Reach 29R: Default Culvert Peak Depth=0.42' Max Vel=5.6 fps Inflow=3.29 cfs 2.535 af
D=36.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=79.72 cfs Outflow=3.29 cfs 2.533 af

Reach 78R: Peak Depth=0.15' Max Vel=2.1 fps Inflow=2.28 cfs 0.574 af
n=0.040 L=201.0' S=0.0498 '/' Capacity=1,238.97 cfs Outflow=2.28 cfs 0.572 af

Reach 81R: Peak Depth=0.69' Max Vel=2.7 fps Inflow=25.58 cfs 7.767 af
n=0.040 L=1,189.0' S=0.0156 '/' Capacity=692.87 cfs Outflow=24.36 cfs 7.704 af

Reach 82R: Peak Depth=0.66' Max Vel=1.9 fps Inflow=15.96 cfs 8.297 af
n=0.040 L=1,183.0' S=0.0080 '/' Capacity=495.93 cfs Outflow=15.96 cfs 7.917 af

Reach 83R: Peak Depth=0.50' Max Vel=1.1 fps Inflow=5.94 cfs 3.209 af
n=0.040 L=1,712.0' S=0.0036 '/' Capacity=332.92 cfs Outflow=5.94 cfs 3.113 af

Reach 84R: Peak Depth=0.35' Max Vel=1.5 fps Inflow=5.17 cfs 1.671 af
n=0.040 L=998.0' S=0.0103 '/' Capacity=562.93 cfs Outflow=5.17 cfs 1.650 af

Reach 85R: Peak Depth=0.26' Max Vel=2.5 fps Inflow=5.69 cfs 1.241 af
n=0.040 L=617.0' S=0.0404 '/' Capacity=1,117.00 cfs Outflow=5.69 cfs 1.234 af

Reach 91R: Peak Depth=0.34' Max Vel=2.9 fps Inflow=9.39 cfs 1.136 af
n=0.035 L=368.0' S=0.0309 '/' Capacity=1,115.85 cfs Outflow=9.32 cfs 1.133 af

Reach 92R: Peak Depth=0.38' Max Vel=1.7 fps Inflow=6.06 cfs 2.450 af
n=0.035 L=490.0' S=0.0087 '/' Capacity=591.22 cfs Outflow=6.06 cfs 2.437 af

Reach 93R: Peak Depth=0.34' Max Vel=1.0 fps Inflow=3.15 cfs 2.555 af
n=0.040 L=133.0' S=0.0044 '/' Capacity=366.82 cfs Outflow=3.08 cfs 2.536 af

Reach 96R: Peak Depth=0.27' Max Vel=0.5 fps Inflow=1.38 cfs 0.183 af
n=0.050 L=700.0' S=0.0020 '/' Capacity=198.73 cfs Outflow=1.07 cfs 0.176 af

Reach 97R: Peak Depth=3.05' Max Vel=5.0 fps Inflow=279.35 cfs 156.808 af
n=0.050 L=90.0' S=0.0133 '/' Capacity=269.81 cfs Outflow=279.37 cfs 156.582 af

Reach 98R: Peak Depth=8.09' Max Vel=1.4 fps Inflow=279.66 cfs 155.427 af
n=0.080 L=624.0' S=0.0016 '/' Capacity=58.46 cfs Outflow=279.14 cfs 149.590 af

Reach 99R: Peak Depth=5.06' Max Vel=2.5 fps Inflow=292.57 cfs 172.194 af
n=0.080 L=318.0' S=0.0063 '/' Capacity=115.81 cfs Outflow=292.53 cfs 170.541 af

Reach 107R: Peak Depth=1.15' Max Vel=3.5 fps Inflow=38.01 cfs 6.879 af
n=0.035 L=614.0' S=0.0087 '/' Capacity=264.58 cfs Outflow=38.00 cfs 6.851 af

Reach 108R: Peak Depth=0.81' Max Vel=3.6 fps Inflow=24.14 cfs 9.431 af
n=0.035 L=325.0' S=0.0138 '/' Capacity=332.90 cfs Outflow=24.12 cfs 9.415 af

Reach 109R: Peak Depth=1.32' Max Vel=3.2 fps Inflow=94.81 cfs 22.755 af
n=0.040 L=757.0' S=0.0106 '/' Capacity=571.03 cfs Outflow=82.10 cfs 22.604 af

Reach 110R: Peak Depth=1.43' Max Vel=2.8 fps Inflow=82.10 cfs 23.331 af
n=0.040 L=269.0' S=0.0074 '/' Capacity=478.96 cfs Outflow=82.10 cfs 23.275 af

Reach 111R: Peak Depth=0.67' Max Vel=2.9 fps Inflow=15.55 cfs 1.936 af
n=0.035 L=376.0' S=0.0106 '/' Capacity=291.80 cfs Outflow=15.45 cfs 1.929 af

Reach 117R: Peak Depth=1.56' Max Vel=2.4 fps Inflow=82.10 cfs 23.275 af
n=0.040 L=1,012.0' S=0.0049 '/' Capacity=390.44 cfs Outflow=82.10 cfs 23.024 af

Reach 129R: Peak Depth=0.98' Max Vel=2.2 fps Inflow=34.69 cfs 20.611 af
n=0.040 L=70.0' S=0.0071 '/' Capacity=469.46 cfs Outflow=34.69 cfs 20.578 af

Reach 187R: Peak Depth=0.41' Max Vel=1.4 fps Inflow=5.94 cfs 3.229 af
n=0.040 L=512.0' S=0.0074 '/' Capacity=478.54 cfs Outflow=5.94 cfs 3.209 af

Reach 194R: Default Culvert (ID194) Peak Depth=0.74' Max Vel=11.4 fps Inflow=15.45 cfs 1.929 af
D=36.0" n=0.013 L=33.0' S=0.0303 '/' Capacity=116.11 cfs Outflow=15.45 cfs 1.929 af

Reach 267R: Peak Depth=0.11' Max Vel=2.7 fps Inflow=2.24 cfs 0.276 af
n=0.040 L=381.0' S=0.1115 '/' Capacity=1,855.20 cfs Outflow=2.16 cfs 0.275 af

Reach 268R: Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.040 L=150.0' S=0.0267 '/' Capacity=907.08 cfs Outflow=0.00 cfs 0.000 af

Reach 269R: Default Culvert (ID269) Peak Depth=3.00' Max Vel=13.2 fps Inflow=113.25 cfs 23.630 af
D=36.0" n=0.013 L=33.0' S=0.0152 '/' Capacity=82.10 cfs Outflow=85.41 cfs 23.633 af

Reach 272R: Peak Depth=0.86' Max Vel=1.3 fps Inflow=15.96 cfs 7.917 af
n=0.080 L=296.0' S=0.0108 '/' Capacity=288.77 cfs Outflow=15.96 cfs 7.773 af

Reach 278R: Peak Depth=0.64' Max Vel=1.9 fps Inflow=3.29 cfs 2.533 af
n=0.030 L=215.0' S=0.0047 '/' Capacity=38.47 cfs Outflow=3.28 cfs 2.516 af

Reach 279R: Peak Depth=0.46' Max Vel=2.9 fps Inflow=3.28 cfs 2.489 af
n=0.030 L=133.0' S=0.0163 '/' Capacity=72.05 cfs Outflow=3.28 cfs 2.483 af

Reach 280R: Peak Depth=0.17' Max Vel=2.6 fps Inflow=3.36 cfs 2.586 af
n=0.035 L=410.0' S=0.0513 '/' Capacity=1,438.42 cfs Outflow=3.31 cfs 2.562 af

Reach 281R: Peak Depth=0.26' Max Vel=1.5 fps Inflow=3.31 cfs 2.562 af
n=0.030 L=125.0' S=0.0080 '/' Capacity=662.43 cfs Outflow=3.30 cfs 2.550 af

Reach 282R: Default Culvert (ID28) Peak Depth=0.67' Max Vel=2.8 fps Inflow=3.28 cfs 2.516 af
D=36.0" n=0.013 L=490.0' S=0.0020 '/' Capacity=30.13 cfs Outflow=3.28 cfs 2.489 af

Reach 285R: Default Culvert (ID285) Peak Depth=0.61' Max Vel=9.3 fps Inflow=9.53 cfs 1.179 af
D=36.0" n=0.013 L=40.0' S=0.0250 '/' Capacity=105.46 cfs Outflow=9.52 cfs 1.179 af

Reach 303R: Default Culvert (ID303) Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
D=36.0" n=0.013 L=50.0' S=0.0200 '/' Capacity=94.33 cfs Outflow=0.00 cfs 0.000 af

Reach 341R: Peak Depth=1.42' Max Vel=2.8 fps Inflow=85.41 cfs 23.633 af
n=0.040 L=1,469.0' S=0.0075 '/' Capacity=480.67 cfs Outflow=82.10 cfs 23.331 af

Reach 343R: Peak Depth=0.42' Max Vel=3.0 fps Inflow=13.00 cfs 1.528 af
n=0.035 L=617.0' S=0.0259 '/' Capacity=1,022.28 cfs Outflow=12.76 cfs 1.522 af

Reach 344R: Peak Depth=0.64' Max Vel=3.6 fps Inflow=28.41 cfs 3.142 af
n=0.040 L=417.0' S=0.0300 '/' Capacity=961.71 cfs Outflow=28.14 cfs 3.134 af

Reach 345R: Peak Depth=0.88' Max Vel=3.1 fps Inflow=40.83 cfs 4.656 af
n=0.040 L=377.0' S=0.0159 '/' Capacity=700.75 cfs Outflow=40.43 cfs 4.645 af

Reach 346R: Peak Depth=0.24' Max Vel=0.3 fps Inflow=0.70 cfs 0.506 af
n=0.040 L=80.0' S=0.0008 '/' Capacity=152.12 cfs Outflow=0.69 cfs 0.503 af

Reach 347R: Peak Depth=0.46' Max Vel=3.1 fps Inflow=15.54 cfs 11.462 af
n=0.035 L=1,080.0' S=0.0250 '/' Capacity=1,003.74 cfs Outflow=15.13 cfs 11.228 af

Reach 348R: Peak Depth=3.18' Max Vel=4.3 fps Inflow=254.12 cfs 150.682 af
n=0.040 L=423.0' S=0.0059 '/' Capacity=224.54 cfs Outflow=254.12 cfs 149.548 af

Reach 349R: Peak Depth=4.23' Max Vel=3.0 fps Inflow=268.87 cfs 160.775 af
n=0.040 L=863.0' S=0.0023 '/' Capacity=140.61 cfs Outflow=268.86 cfs 157.225 af

Reach 350R: Peak Depth=0.43' Max Vel=5.6 fps Inflow=8.00 cfs 0.771 af
n=0.035 L=107.0' S=0.0879 '/' Capacity=213.54 cfs Outflow=7.97 cfs 0.771 af

Reach 352R: Peak Depth=0.46' Max Vel=3.9 fps Inflow=6.19 cfs 0.660 af
n=0.030 L=888.0' S=0.0286 '/' Capacity=142.07 cfs Outflow=6.02 cfs 0.656 af

Reach 353R: Peak Depth=0.26' Max Vel=1.8 fps Inflow=4.18 cfs 0.470 af
n=0.040 L=738.0' S=0.0190 '/' Capacity=765.06 cfs Outflow=3.92 cfs 0.466 af

Reach 418R: Peak Depth=0.32' Max Vel=3.2 fps Inflow=9.60 cfs 1.184 af
n=0.040 L=530.0' S=0.0509 '/' Capacity=1,253.73 cfs Outflow=9.53 cfs 1.179 af

Reach 419R: Peak Depth=0.42' Max Vel=2.2 fps Inflow=9.52 cfs 1.179 af
n=0.040 L=112.0' S=0.0179 '/' Capacity=742.28 cfs Outflow=9.49 cfs 1.178 af

Reach 421R: Peak Depth=0.71' Max Vel=1.4 fps Inflow=15.34 cfs 2.048 af
n=0.040 L=1,465.0' S=0.0041 '/' Capacity=357.55 cfs Outflow=13.27 cfs 2.003 af

Reach 422R: Peak Depth=0.94' Max Vel=1.5 fps Inflow=26.49 cfs 3.470 af
n=0.050 L=1,477.0' S=0.0054 '/' Capacity=327.04 cfs Outflow=21.91 cfs 3.403 af

Reach 576R: Peak Depth=0.29' Max Vel=1.8 fps Inflow=4.97 cfs 0.409 af
n=0.040 L=341.0' S=0.0176 '/' Capacity=736.81 cfs Outflow=4.73 cfs 0.408 af

Reach 613R: Peak Depth=0.94' Max Vel=2.6 fps Inflow=77.86 cfs 6.465 af
n=0.040 L=1,357.0' S=0.0103 '/' Capacity=564.20 cfs Outflow=38.36 cfs 6.344 af

Reach 615R: Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.035 L=1,207.0' S=0.0135 '/' Capacity=328.77 cfs Outflow=0.00 cfs 0.000 af

Reach 616R: Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.035 L=235.0' S=0.0085 '/' Capacity=585.64 cfs Outflow=0.00 cfs 0.000 af

Reach 617R: Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.040 L=875.0' S=0.0070 '/' Capacity=465.69 cfs Outflow=0.00 cfs 0.000 af

Reach CR100: CUL-092 Peak Depth=1.50' Max Vel=3.6 fps Inflow=11.81 cfs 1.241 af
D=18.0" n=0.024 L=50.0' S=0.0100 '/' Capacity=5.69 cfs Outflow=5.69 cfs 1.241 af

Reach CR101: CUL-093 Peak Depth=3.00' Max Vel=3.9 fps Inflow=49.29 cfs 7.769 af
D=36.0" n=0.024 L=55.0' S=0.0045 '/' Capacity=24.36 cfs Outflow=25.58 cfs 7.767 af

Reach CR102: CUL-094 Peak Depth=1.25' Max Vel=2.0 fps Inflow=2.82 cfs 0.276 af
D=15.0" n=0.024 L=45.0' S=0.0038 '/' Capacity=2.15 cfs Outflow=2.24 cfs 0.276 af

Reach CR143: CUL-132 Peak Depth=1.50' Max Vel=0.4 fps Inflow=3.99 cfs 0.507 af
D=18.0" n=0.024 L=70.0' S=0.0001 '/' Capacity=0.68 cfs Outflow=0.70 cfs 0.506 af

Reach CR144: CUL-133 Peak Depth=3.00' Max Vel=2.4 fps Inflow=35.45 cfs 21.319 af
D=36.0" n=0.024 L=120.0' S=0.0017 '/' Capacity=14.75 cfs Outflow=15.54 cfs 11.462 af

Reach CR146: CUL-135 Peak Depth=1.25' Max Vel=2.7 fps Inflow=38.11 cfs 6.642 af
D=15.0" n=0.024 L=35.0' S=0.0071 '/' Capacity=2.96 cfs Outflow=3.15 cfs 2.555 af

Reach CR147: CUL-136 Peak Depth=1.25' Max Vel=5.6 fps Inflow=20.96 cfs 2.450 af
D=15.0" n=0.024 L=35.0' S=0.0300 '/' Capacity=6.06 cfs Outflow=6.06 cfs 2.450 af

Reach CR154: CUL-143 Peak Depth=0.50' Max Vel=2.7 fps Inflow=1.38 cfs 0.183 af
D=18.0" n=0.024 L=50.0' S=0.0100 '/' Capacity=5.69 cfs Outflow=1.38 cfs 0.183 af

Reach CR181: CUL-169 Peak Depth=1.50' Max Vel=2.4 fps Inflow=43.19 cfs 7.273 af
D=18.0" n=0.024 L=40.0' S=0.0042 '/' Capacity=3.71 cfs Outflow=3.78 cfs 2.061 af

Reach CR182: CUL-170 Peak Depth=2.67' Max Vel=4.9 fps Inflow=47.43 cfs 9.432 af
D=32.0" n=0.024 L=40.0' S=0.0082 '/' Capacity=23.97 cfs Outflow=24.14 cfs 9.431 af

Reach CR68: CUL-062 Peak Depth=0.67' Max Vel=3.1 fps Inflow=12.39 cfs 0.744 af
D=8.0" n=0.013 L=40.0' S=0.0082 '/' Capacity=1.10 cfs Outflow=1.10 cfs 0.671 af

Reach CR69: CUL-063 Peak Depth=0.59' Max Vel=2.5 fps Inflow=1.10 cfs 0.671 af
D=12.0" n=0.025 L=40.0' S=0.0100 '/' Capacity=1.85 cfs Outflow=1.18 cfs 0.670 af

Reach CR89: CUL-081 Peak Depth=0.00' Max Vel=0.0 fps
D=36.0" n=0.024 L=55.0' S=0.0076 '/' Capacity=31.57 cfs Outflow=0.00 cfs 0.000 af

Reach CR91: CUL-083 Peak Depth=2.00' Max Vel=2.5 fps Inflow=106.30 cfs 16.128 af
D=24.0" n=0.024 L=70.0' S=0.0033 '/' Capacity=7.02 cfs Outflow=7.42 cfs 6.199 af

Reach CR92: CUL-084 Peak Depth=1.25' Max Vel=2.1 fps Inflow=5.01 cfs 0.574 af
D=15.0" n=0.024 L=40.0' S=0.0043 '/' Capacity=2.28 cfs Outflow=2.28 cfs 0.574 af

Reach CR93: CUL-085 Peak Depth=1.25' Max Vel=3.0 fps Inflow=33.95 cfs 5.018 af
D=15.0" n=0.024 L=48.0' S=0.0088 '/' Capacity=3.27 cfs Outflow=3.36 cfs 2.586 af

Reach CR96: CUL-088 Peak Depth=1.25' Max Vel=5.5 fps Inflow=21.09 cfs 3.229 af
D=15.0" n=0.010 L=40.0' S=0.0050 '/' Capacity=5.94 cfs Outflow=5.94 cfs 3.229 af

Reach CR98: CUL-090 Peak Depth=1.50' Max Vel=3.3 fps Inflow=15.38 cfs 1.671 af
D=18.0" n=0.024 L=40.0' S=0.0082 '/' Capacity=5.17 cfs Outflow=5.17 cfs 1.671 af

Reach OUTLET O: CUL-138 Peak Depth=0.00' Max Vel=0.0 fps
D=66.0" n=0.015 L=55.0' S=0.0091 '/' Capacity=277.49 cfs Outflow=0.00 cfs 0.000 af

Pond 2P: Wetland Detention 30(Cul. ID 0 Peak Elev=45.84' Storage=12.093 af Inflow=100.18 cfs 19.014 af
Outflow=15.96 cfs 8.297 af

Pond 5P: Wetland Detention 7(Cul. ID 1 Peak Elev=34.56' Storage=80.323 af Inflow=571.62 cfs 225.856 af
Outflow=254.12 cfs 150.682 af

Pond 08P: Wetland Detention 8(Cul. ID 1 Peak Elev=18.40' Storage=0.826 af Inflow=283.60 cfs 157.602 af
Outflow=279.35 cfs 156.808 af

Pond 8P: Wetland Detention 8(Cul. ID 137) Peak Elev=0.00' Storage=0.000 af
Primary=0.00 cfs 0.000 af

Pond 9P: Wetland Detention 9(Cul. ID 193) Peak Elev=20.69' Storage=0.275 af Inflow=82.10 cfs 23.024 af
Outflow=94.81 cfs 22.755 af

Pond 10P: Wetland Detention 10(Cul. ID 164 Peak Elev=39.57' Storage=0.385 af Inflow=45.10 cfs 6.879 af
Outflow=38.01 cfs 6.879 af

Pond 11P: Wetland Detention 11(Cul. ID 1 Peak Elev=56.83' Storage=9.738 af Inflow=154.09 cfs 22.967 af
Outflow=34.69 cfs 20.611 af

Pond 16P: Pond/Wet Area Peak Elev=23.02' Storage=2.053 af Inflow=3.78 cfs 2.061 af
Outflow=0.00 cfs 0.000 af

Pond 30P: Pond/Wet Area Peak Elev=13.09' Storage=1.205 af Inflow=318.42 cfs 188.962 af
Outflow=322.32 cfs 187.749 af

Pond 37P: Wetland Detention 37 Peak Elev=24.03' Storage=26.400 af Inflow=271.90 cfs 159.938 af
Outflow=275.74 cfs 133.535 af

Pond 44P: Pond/Wet Area Peak Elev=54.08' Storage=7.000 af Inflow=99.39 cfs 13.434 af
Outflow=77.86 cfs 6.465 af

Pond 45P: Pond/Wet Area Peak Elev=48.44' Storage=0.407 af Inflow=4.73 cfs 0.408 af
Outflow=0.00 cfs 0.000 af

Pond 47P: Pond/Wet Area Peak Elev=40.62' Storage=1.200 af Inflow=111.25 cfs 24.834 af
Outflow=113.25 cfs 23.630 af

Pond 48P: Pond/Wet Area Peak Elev=49.93' Storage=12.245 af Inflow=89.84 cfs 19.438 af
18.0" x 1.0' Culvert Outflow=43.19 cfs 7.273 af

Pond 50P: Pond/Wet Area Peak Elev=58.61' Storage=0.741 af Inflow=11.56 cfs 1.479 af
Outflow=12.39 cfs 0.744 af

Pond 51P: Pond/Wet Area Peak Elev=50.92' Storage=0.668 af Inflow=1.18 cfs 0.670 af
Outflow=0.00 cfs 0.000 af

Pond 74P: CB_74 Unsurveyed Peak Elev=102.59' Inflow=10.21 cfs 1.413 af
12.0" x 198.0' Culvert Outflow=10.21 cfs 1.413 af

Pond 176P: CB_176 Unsurveyed Peak Elev=103.59' Inflow=10.21 cfs 1.413 af
12.0" x 44.0' Culvert Outflow=10.21 cfs 1.413 af

Pond 180P: CB_180 Unsurveyed Peak Elev=72.82' Inflow=13.00 cfs 1.528 af
12.0" x 50.0' Culvert Outflow=13.00 cfs 1.528 af

Pond 181P: CB_181 Unsurveyed Peak Elev=168.89' Inflow=24.94 cfs 2.771 af
12.0" x 297.0' Culvert Outflow=24.94 cfs 2.771 af

Pond 183P: CB_183 Unsurveyed Peak Elev=102.00' Inflow=24.94 cfs 2.771 af
12.0" x 50.0' Culvert Outflow=24.94 cfs 2.771 af

Pond 184P: CB_184 Unsurveyed Peak Elev=101.50' Inflow=24.94 cfs 2.771 af
12.0" x 20.0' Culvert Outflow=24.94 cfs 2.771 af

Pond 185P: (new Pond) Inflow=3.28 cfs 0.277 af
Primary=3.28 cfs 0.277 af

Pond 186P: CB_186 Unsurveyed Peak Elev=54.47' Inflow=3.72 cfs 0.372 af
12.0" x 30.0' Culvert Outflow=3.72 cfs 0.372 af

Pond 187P: CB_187 Unsurveyed Peak Elev=54.17' Inflow=3.72 cfs 0.372 af
12.0" x 20.0' Culvert Outflow=3.72 cfs 0.372 af

Pond 245P: CB_245 Unsurveyed Peak Elev=153.15' Inflow=26.49 cfs 3.470 af
12.0" x 200.0' Culvert Outflow=26.49 cfs 3.470 af

Pond 246P: CB_246 Unsurveyed Peak Elev=97.28' Inflow=11.68 cfs 1.841 af
12.0" x 300.0' Culvert Outflow=11.68 cfs 1.841 af

Pond 247P: CB_247 Unsurveyed Peak Elev=92.59' Inflow=10.21 cfs 1.413 af
12.0" x 34.0' Culvert Outflow=10.21 cfs 1.413 af

Pond 248P: CB_248 Unsurveyed Peak Elev=81.83' Inflow=11.68 cfs 1.841 af
12.0" x 44.0' Culvert Outflow=11.68 cfs 1.841 af

Pond 249P: CB_249 Unsurveyed Peak Elev=81.98' Inflow=11.68 cfs 1.841 af
12.0" x 217.0' Culvert Outflow=11.68 cfs 1.841 af

Pond 279P: CB_279 Unsurveyed Peak Elev=51.41' Inflow=15.55 cfs 1.936 af
12.0" x 56.0' Culvert Outflow=15.55 cfs 1.936 af

Pond ID19: Pond/Wet Area Peak Elev=15.68' Storage=1.155 af Inflow=279.37 cfs 156.582 af
Outflow=279.66 cfs 155.427 af

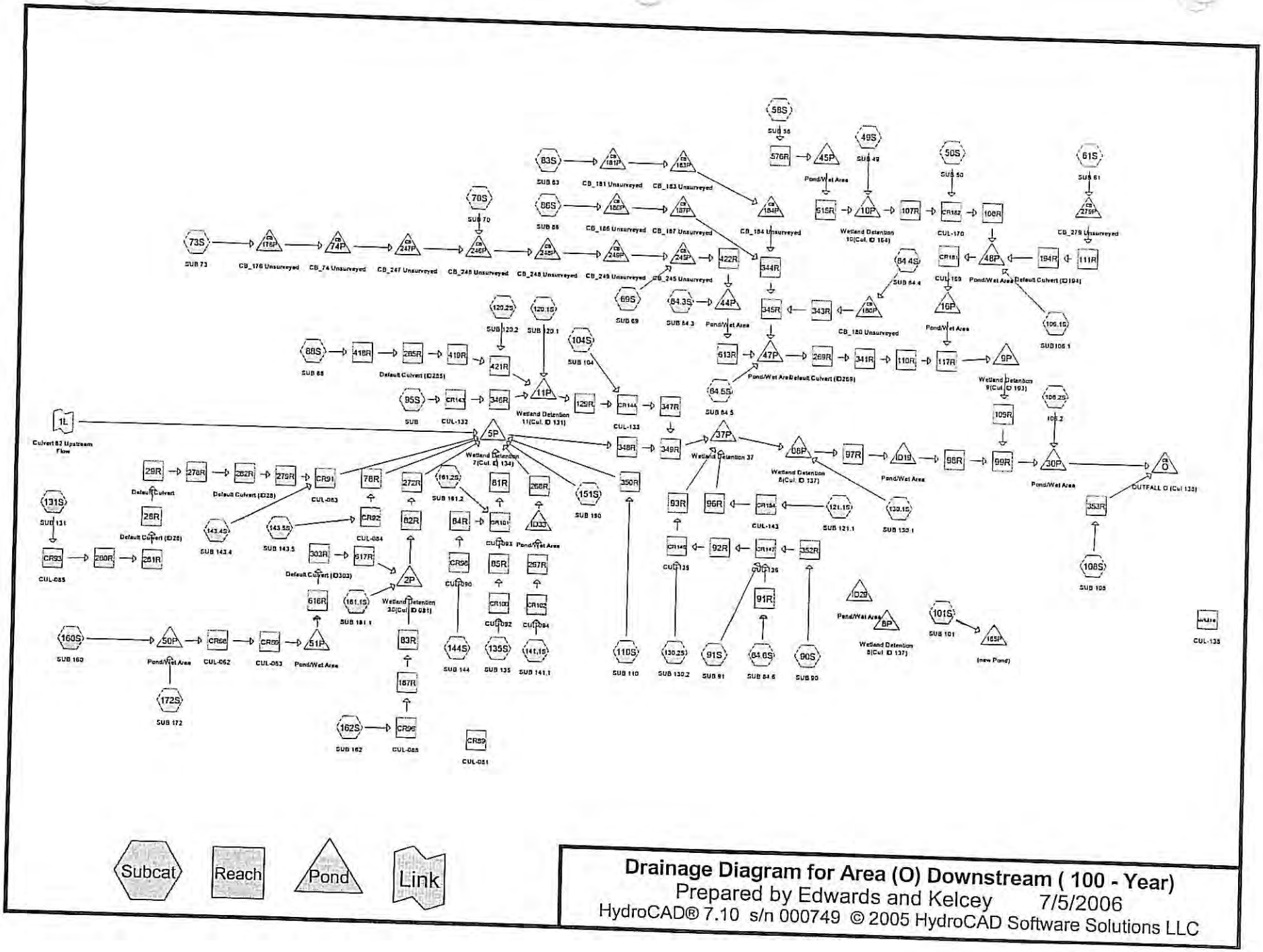
Pond ID29: Pond/Wet Area Peak Elev=0.00' Storage=0.000 af
Primary=0.00 cfs 0.000 af

Pond ID33: Pond/Wet Area Peak Elev=28.11' Storage=0.275 af Inflow=2.16 cfs 0.275 af
Outflow=0.00 cfs 0.000 af

Pond O: OUTFALL O (Cul 138) Peak Elev=10.58' Inflow=324.36 cfs 188.215 af
25.00' x 5.50' x 55.0' Culvert Outflow=324.36 cfs 188.215 af

\York Watershed Current\OUTFALL O\Upstream\Area (O) Upstream (50 - Year)~Pond 5P Inflow=349.66 cfs 162.487 af
Primary=349.66 cfs 162.487 af

Total Runoff Area = 807.600 ac Runoff Volume = 214.798 af Average Runoff Depth = 3.19"



Drainage Diagram for Area (O) Downstream (100 - Year)

Prepared by Edwards and Kelcey 7/5/2006

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 49S: SUB 49
Runoff Area=25.580 ac Runoff Depth>3.90"
Flow Length=1,344' Tc=51.7 min CN=79 Runoff=54.25 cfs 8.314 af

Subcatchment 50S: SUB 50
Runoff Area=8.730 ac Runoff Depth>4.25"
Flow Length=791' Tc=27.3 min CN=82 Runoff=27.15 cfs 3.089 af

Subcatchment 58S: SUB 58
Runoff Area=1.270 ac Runoff Depth>4.59"
Flow Length=227' Tc=11.7 min CN=85 Runoff=5.85 cfs 0.486 af

Subcatchment 61S: SUB 61
Runoff Area=6.380 ac Runoff Depth>4.34"
Flow Length=650' Tc=33.6 min CN=83 Runoff=18.43 cfs 2.310 af

Subcatchment 69S: SUB 69
Runoff Area=4.930 ac Runoff Depth>4.69"
Flow Length=702' Tc=18.0 min CN=86 Runoff=19.71 cfs 1.926 af

Subcatchment 70S: SUB 70
Runoff Area=1.290 ac Runoff Depth>4.70"
Flow Length=294' Tc=9.1 min CN=86 Runoff=6.46 cfs 0.505 af

Subcatchment 73S: SUB 73
Runoff Area=4.670 ac Runoff Depth>4.33"
Flow Length=515' Tc=41.9 min CN=83 Runoff=12.10 cfs 1.687 af

Subcatchment 83S: SUB 83
Runoff Area=9.110 ac Runoff Depth>4.35"
Flow Length=1,523' Tc=26.0 min CN=83 Runoff=29.55 cfs 3.306 af

Subcatchment 84.3S: SUB 84.3
Runoff Area=41.890 ac Runoff Depth>3.52"
Flow Length=723' Tc=30.7 min CN=75 Runoff=104.20 cfs 12.284 af

Subcatchment 84.4S: SUB 84.4
Runoff Area=3.830 ac Runoff Depth>5.53"
Flow Length=759' Tc=25.2 min CN=94 Runoff=14.91 cfs 1.764 af

Subcatchment 84.5S: SUB 84.5
Runoff Area=55.100 ac Runoff Depth>3.67"
Flow Length=1,232' Tc=70.8 min CN=77 Runoff=92.14 cfs 16.849 af

Subcatchment 84.6S: SUB 84.6
Runoff Area=3.640 ac Runoff Depth>4.46"
Flow Length=440' Tc=31.3 min CN=84 Runoff=11.09 cfs 1.351 af

Subcatchment 86S: SUB 86
Runoff Area=1.220 ac Runoff Depth>4.36"
Flow Length=350' Tc=20.2 min CN=83 Runoff=4.41 cfs 0.443 af

Subcatchment 88S: SUB 88
Runoff Area=3.900 ac Runoff Depth>4.35"
Flow Length=782' Tc=32.9 min CN=83 Runoff=11.38 cfs 1.412 af

Subcatchment 90S: SUB 90
Runoff Area=2.230 ac Runoff Depth>4.25"
Flow Length=434' Tc=23.8 min CN=82 Runoff=7.36 cfs 0.790 af

Subcatchment 91S: SUB 91
Runoff Area=2.590 ac Runoff Depth>3.73"
Flow Length=368' Tc=27.3 min CN=77 Runoff=7.16 cfs 0.804 af

Subcatchment 95S: SUB
Runoff Area=1.770 ac Runoff Depth>4.13"
Flow Length=450' Tc=35.7 min CN=81 Runoff=4.76 cfs 0.609 af

Subcatchment 101S: SUB 101
Runoff Area=0.860 ac Runoff Depth>4.59"
Flow Length=150' Tc=12.6 min CN=85 Runoff=3.86 cfs 0.329 af

Subcatchment 104S: SUB 104
Runoff Area=2.370 ac Runoff Depth>4.46"
Flow Length=528' Tc=25.1 min CN=84 Runoff=7.96 cfs 0.881 af

Subcatchment 106.1S: SUB106.1
Runoff Area=27.600 ac Runoff Depth>4.21"
Flow Length=1,482' Tc=52.5 min CN=82 Runoff=61.96 cfs 9.690 af

Subcatchment 106.2S: 106.2
Runoff Area=69.320 ac Runoff Depth>3.86"
Flow Length=2,174' Tc=83.8 min CN=79 Runoff=109.60 cfs 22.273 af

Subcatchment 108S: SUB 108
Runoff Area=1.390 ac Runoff Depth>4.79"
Flow Length=268' Tc=25.7 min CN=87 Runoff=4.88 cfs 0.555 af

Subcatchment 110S: SUB 110
Runoff Area=2.530 ac Runoff Depth>4.36"
Flow Length=365' Tc=18.4 min CN=83 Runoff=9.48 cfs 0.920 af

Subcatchment 120.1S: SUB 120.1
Runoff Area=83.230 ac Runoff Depth>3.60"
Flow Length=3,262' Tc=45.8 min CN=76 Runoff=174.50 cfs 24.975 af

Subcatchment 120.2S: SUB 120.2
Runoff Area=3.020 ac Runoff Depth>4.15"
Flow Length=347' Tc=19.3 min CN=81 Runoff=10.65 cfs 1.045 af

Subcatchment 121.1S: SUB 121.1
Runoff Area=0.620 ac Runoff Depth>4.23"
Flow Length=240' Tc=38.4 min CN=82 Runoff=1.64 cfs 0.219 af

Subcatchment 130.1S: SUB 130.1
Runoff Area=88.630 ac Runoff Depth>3.94"
Flow Length=1,962' Tc=23.1 min CN=79 Runoff=276.97 cfs 29.078 af

Subcatchment 130.2S: SUB 130.2
Runoff Area=14.680 ac Runoff Depth>4.13"
Flow Length=1,460' Tc=38.1 min CN=81 Runoff=38.25 cfs 5.048 af

Subcatchment 131S: SUB 131
Runoff Area=19.210 ac Runoff Depth>3.80"
Flow Length=1,388' Tc=48.9 min CN=78 Runoff=40.99 cfs 6.084 af

Subcatchment 135S: SUB 135
Runoff Area=4.570 ac Runoff Depth>3.94"
Flow Length=562' Tc=23.4 min CN=79 Runoff=14.20 cfs 1.499 af

Subcatchment 141.1S: SUB 141.1
Runoff Area=0.880 ac Runoff Depth>4.47"
Flow Length=150' Tc=18.9 min CN=84 Runoff=3.33 cfs 0.328 af

Subcatchment 143.4S: SUB 143.4 Runoff Area=45.040 ac Runoff Depth>4.34"
Flow Length=2,564' Tc=38.3 min CN=83 Runoff=122.09 cfs 16.284 af

Subcatchment 143.5S: SUB 143.5 Runoff Area=2.320 ac Runoff Depth>3.62"
Flow Length=297' Tc=28.9 min CN=76 Runoff=6.09 cfs 0.700 af

Subcatchment 144S: SUB 144 Runoff Area=5.980 ac Runoff Depth>4.04"
Flow Length=320' Tc=25.2 min CN=80 Runoff=18.42 cfs 2.013 af

Subcatchment 151S: SUB 150 Runoff Area=162.220 ac Runoff Depth>3.64"
Flow Length=230' Tc=12.6 min CN=76 Runoff=595.49 cfs 49.229 af

Subcatchment 160S: SUB 160 Runoff Area=0.670 ac Runoff Depth>4.70"
Flow Length=253' Tc=12.2 min CN=86 Runoff=3.10 cfs 0.262 af

Subcatchment 161.1S: SUB 161.1 Runoff Area=61.100 ac Runoff Depth>3.79"
Flow Length=2,325' Tc=59.3 min CN=78 Runoff=116.47 cfs 19.282 af

Subcatchment 161.2S: SUB 161.2 Runoff Area=17.540 ac Runoff Depth>4.03"
Flow Length=847' Tc=35.4 min CN=80 Runoff=46.25 cfs 5.884 af

Subcatchment 162S: SUB 162 Runoff Area=11.660 ac Runoff Depth>4.00"
Flow Length=950' Tc=51.8 min CN=80 Runoff=25.27 cfs 3.890 af

Subcatchment 172S: SUB 172 Runoff Area=4.030 ac Runoff Depth>4.45"
Flow Length=555' Tc=32.2 min CN=84 Runoff=12.10 cfs 1.496 af

Reach 28R: Default Culvert (ID28) Peak Depth=0.46' Max Vel=5.0 fps Inflow=3.41 cfs 2.671 af
D=36.0" n=0.013 L=490.0' S=0.0102 '/' Capacity=67.38 cfs Outflow=3.39 cfs 2.656 af

Reach 29R: Default Culvert Peak Depth=0.42' Max Vel=5.6 fps Inflow=3.39 cfs 2.656 af
D=36.0" n=0.013 L=70.0' S=0.0143 '/' Capacity=79.72 cfs Outflow=3.39 cfs 2.654 af

Reach 78R: Peak Depth=0.15' Max Vel=2.1 fps Inflow=2.28 cfs 0.700 af
n=0.040 L=201.0' S=0.0498 '/' Capacity=1,238.97 cfs Outflow=2.28 cfs 0.699 af

Reach 81R: Peak Depth=0.69' Max Vel=2.7 fps Inflow=25.84 cfs 9.362 af
n=0.040 L=1,189.0' S=0.0156 '/' Capacity=692.87 cfs Outflow=24.36 cfs 9.292 af

Reach 82R: Peak Depth=0.93' Max Vel=2.3 fps Inflow=40.37 cfs 11.217 af
n=0.040 L=1,183.0' S=0.0080 '/' Capacity=495.93 cfs Outflow=32.48 cfs 10.810 af

Reach 83R: Peak Depth=0.50' Max Vel=1.1 fps Inflow=5.94 cfs 3.867 af
n=0.040 L=1,712.0' S=0.0036 '/' Capacity=332.92 cfs Outflow=5.94 cfs 3.727 af

Reach 84R: Peak Depth=0.35' Max Vel=1.5 fps Inflow=5.34 cfs 2.012 af
n=0.040 L=998.0' S=0.0103 '/' Capacity=562.93 cfs Outflow=5.17 cfs 1.989 af

Reach 85R: Peak Depth=0.26' Max Vel=2.5 fps Inflow=5.69 cfs 1.499 af
n=0.040 L=617.0' S=0.0404 '/' Capacity=1,117.00 cfs Outflow=5.69 cfs 1.492 af

Reach 91R: Peak Depth=0.37' Max Vel=3.1 fps Inflow=11.09 cfs 1.351 af
n=0.035 L=368.0' S=0.0309 '/' Capacity=1,115.85 cfs Outflow=11.00 cfs 1.348 af

Reach 92R: Peak Depth=0.38' Max Vel=1.7 fps Inflow=6.06 cfs 2.938 af
n=0.035 L=490.0' S=0.0087 '/' Capacity=591.22 cfs Outflow=6.06 cfs 2.923 af

Reach 93R: Peak Depth=0.34' Max Vel=1.0 fps Inflow=3.16 cfs 2.674 af
n=0.040 L=133.0' S=0.0044 '/' Capacity=366.82 cfs Outflow=3.09 cfs 2.656 af

Reach 96R: Peak Depth=0.30' Max Vel=0.5 fps Inflow=1.64 cfs 0.219 af
n=0.050 L=700.0' S=0.0020 '/' Capacity=198.73 cfs Outflow=1.29 cfs 0.211 af

Reach 97R: Peak Depth=3.79' Max Vel=5.5 fps Inflow=427.39 cfs 197.847 af
n=0.050 L=90.0' S=0.0133 '/' Capacity=269.81 cfs Outflow=427.38 cfs 197.615 af

Reach 98R: Peak Depth=11.35' Max Vel=1.4 fps Inflow=437.53 cfs 196.437 af
n=0.080 L=624.0' S=0.0016 '/' Capacity=58.46 cfs Outflow=420.56 cfs 190.213 af

Reach 99R: Peak Depth=7.00' Max Vel=2.6 fps Inflow=459.83 cfs 219.489 af
n=0.080 L=318.0' S=0.0063 '/' Capacity=115.81 cfs Outflow=459.41 cfs 217.737 af

Reach 107R: Peak Depth=1.35' Max Vel=3.8 fps Inflow=61.64 cfs 8.314 af
n=0.035 L=614.0' S=0.0087 '/' Capacity=264.58 cfs Outflow=50.90 cfs 8.283 af

Reach 108R: Peak Depth=0.81' Max Vel=3.6 fps Inflow=25.16 cfs 11.371 af
n=0.035 L=325.0' S=0.0138 '/' Capacity=332.90 cfs Outflow=24.27 cfs 11.353 af

Reach 109R: Peak Depth=1.32' Max Vel=3.2 fps Inflow=85.92 cfs 29.448 af
n=0.040 L=757.0' S=0.0106 '/' Capacity=571.03 cfs Outflow=82.10 cfs 29.276 af

Reach 110R: Peak Depth=1.43' Max Vel=2.8 fps Inflow=82.14 cfs 30.063 af
n=0.040 L=269.0' S=0.0074 '/' Capacity=478.96 cfs Outflow=82.11 cfs 29.999 af

Reach 111R: Peak Depth=0.74' Max Vel=3.0 fps Inflow=18.43 cfs 2.310 af
n=0.035 L=376.0' S=0.0106 '/' Capacity=291.80 cfs Outflow=18.31 cfs 2.303 af

Reach 117R: Peak Depth=1.56' Max Vel=2.4 fps Inflow=82.11 cfs 29.999 af
n=0.040 L=1,012.0' S=0.0049 '/' Capacity=390.44 cfs Outflow=82.10 cfs 29.715 af

Reach 129R: Peak Depth=1.02' Max Vel=2.3 fps Inflow=38.00 cfs 23.667 af
n=0.040 L=70.0' S=0.0071 '/' Capacity=469.46 cfs Outflow=38.00 cfs 23.631 af

Reach 187R: Peak Depth=0.41' Max Vel=1.4 fps Inflow=6.15 cfs 3.890 af
n=0.040 L=512.0' S=0.0074 '/' Capacity=478.54 cfs Outflow=5.94 cfs 3.867 af

Reach 194R: Default Culvert (ID194) Peak Depth=0.81' Max Vel=12.0 fps Inflow=18.31 cfs 2.303 af
D=36.0" n=0.013 L=33.0' S=0.0303 '/' Capacity=116.11 cfs Outflow=18.30 cfs 2.303 af

Reach 267R: Peak Depth=0.11' Max Vel=2.7 fps Inflow=2.19 cfs 0.328 af
n=0.040 L=381.0' S=0.1115 '/' Capacity=1,855.20 cfs Outflow=2.15 cfs 0.327 af

Reach 268R: Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.040 L=150.0' S=0.0267 '/' Capacity=907.08 cfs Outflow=0.00 cfs 0.000 af

Reach 269R: Default Culvert (ID269) Peak Depth=3.00' Max Vel=13.2 fps Inflow=179.95 cfs 30.407 af
D=36.0" n=0.013 L=33.0' S=0.0152 '/' Capacity=82.10 cfs Outflow=83.58 cfs 30.406 af

Reach 272R: Peak Depth=1.18' Max Vel=1.5 fps Inflow=32.48 cfs 10.810 af
n=0.080 L=296.0' S=0.0108 '/' Capacity=288.77 cfs Outflow=32.27 cfs 10.657 af

Reach 278R: Peak Depth=0.65' Max Vel=1.9 fps Inflow=3.39 cfs 2.654 af
n=0.030 L=215.0' S=0.0047 '/' Capacity=38.47 cfs Outflow=3.37 cfs 2.637 af

Reach 279R: Peak Depth=0.47' Max Vel=2.9 fps Inflow=3.36 cfs 2.611 af
n=0.030 L=133.0' S=0.0163 '/' Capacity=72.05 cfs Outflow=3.35 cfs 2.604 af

Reach 280R: Peak Depth=0.17' Max Vel=2.6 fps Inflow=3.51 cfs 2.708 af
n=0.035 L=410.0' S=0.0513 '/' Capacity=1,438.42 cfs Outflow=3.44 cfs 2.684 af

Reach 281R: Peak Depth=0.26' Max Vel=1.5 fps Inflow=3.44 cfs 2.684 af
n=0.030 L=125.0' S=0.0080 '/' Capacity=662.43 cfs Outflow=3.41 cfs 2.671 af

Reach 282R: Default Culvert (ID28) Peak Depth=0.68' Max Vel=2.8 fps Inflow=3.37 cfs 2.637 af
D=36.0" n=0.013 L=490.0' S=0.0020 '/' Capacity=30.13 cfs Outflow=3.36 cfs 2.611 af

Reach 285R: Default Culvert (ID285) Peak Depth=0.66' Max Vel=9.7 fps Inflow=11.29 cfs 1.407 af
D=36.0" n=0.013 L=40.0' S=0.0250 '/' Capacity=105.46 cfs Outflow=11.29 cfs 1.407 af

Reach 303R: Default Culvert (ID303) Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
D=36.0" n=0.013 L=50.0' S=0.0200 '/' Capacity=94.33 cfs Outflow=0.00 cfs 0.000 af

Reach 341R: Peak Depth=1.43' Max Vel=2.8 fps Inflow=83.58 cfs 30.406 af
n=0.040 L=1,469.0' S=0.0075 '/' Capacity=480.67 cfs Outflow=82.14 cfs 30.063 af

Reach 343R: Peak Depth=0.45' Max Vel=3.1 fps Inflow=14.91 cfs 1.764 af
n=0.035 L=617.0' S=0.0259 '/' Capacity=1,022.28 cfs Outflow=14.65 cfs 1.757 af

Reach 344R: Peak Depth=0.69' Max Vel=3.8 fps Inflow=33.66 cfs 3.749 af
n=0.040 L=417.0' S=0.0300 '/' Capacity=961.71 cfs Outflow=33.34 cfs 3.741 af

Reach 345R: Peak Depth=0.94' Max Vel=3.3 fps Inflow=47.93 cfs 5.498 af
n=0.040 L=377.0' S=0.0159 '/' Capacity=700.75 cfs Outflow=47.46 cfs 5.485 af

Reach 346R: Peak Depth=0.24' Max Vel=0.3 fps Inflow=0.70 cfs 0.530 af
n=0.040 L=80.0' S=0.0008 '/' Capacity=152.12 cfs Outflow=0.68 cfs 0.522 af

Reach 347R: Peak Depth=0.46' Max Vel=3.1 fps Inflow=15.77 cfs 11.997 af
n=0.035 L=1,080.0' S=0.0250 '/' Capacity=1,003.74 cfs Outflow=15.36 cfs 11.763 af

Reach 348R: Peak Depth=4.25' Max Vel=4.7 fps Inflow=469.11 cfs 186.371 af
n=0.040 L=423.0' S=0.0059 '/' Capacity=224.54 cfs Outflow=425.08 cfs 185.209 af

Reach 349R: Peak Depth=5.71' Max Vel=3.1 fps Inflow=439.83 cfs 196.972 af
n=0.040 L=863.0' S=0.0023 '/' Capacity=140.61 cfs Outflow=423.11 cfs 193.260 af

Reach 350R: Peak Depth=0.47' Max Vel=5.9 fps Inflow=9.48 cfs 0.920 af
n=0.035 L=107.0' S=0.0879 '/' Capacity=213.54 cfs Outflow=9.45 cfs 0.920 af

Reach 352R: Peak Depth=0.50' Max Vel=4.1 fps Inflow=7.36 cfs 0.790 af
n=0.030 L=888.0' S=0.0286 '/' Capacity=142.07 cfs Outflow=7.17 cfs 0.786 af

Reach 353R: Peak Depth=0.28' Max Vel=1.8 fps Inflow=4.88 cfs 0.555 af
n=0.040 L=738.0' S=0.0190 '/' Capacity=765.06 cfs Outflow=4.61 cfs 0.550 af

Reach 418R: Peak Depth=0.35' Max Vel=3.4 fps Inflow=11.38 cfs 1.412 af
n=0.040 L=530.0' S=0.0509 '/' Capacity=1,253.73 cfs Outflow=11.29 cfs 1.407 af

Reach 419R: Peak Depth=0.46' Max Vel=2.3 fps Inflow=11.29 cfs 1.407 af
n=0.040 L=112.0' S=0.0179 '/' Capacity=742.28 cfs Outflow=11.25 cfs 1.406 af

Reach 421R: Peak Depth=0.78' Max Vel=1.5 fps Inflow=18.31 cfs 2.450 af
n=0.040 L=1,465.0' S=0.0041 '/' Capacity=357.55 cfs Outflow=15.98 cfs 2.401 af

Reach 422R: Peak Depth=1.02' Max Vel=1.6 fps Inflow=31.20 cfs 4.118 af
n=0.050 L=1,477.0' S=0.0054 '/' Capacity=327.04 cfs Outflow=26.08 cfs 4.045 af

Reach 576R: Peak Depth=0.32' Max Vel=1.9 fps Inflow=5.85 cfs 0.486 af
n=0.040 L=341.0' S=0.0176 '/' Capacity=736.81 cfs Outflow=5.59 cfs 0.484 af

Reach 613R: Peak Depth=1.26' Max Vel=3.1 fps Inflow=144.63 cfs 9.420 af
n=0.040 L=1,357.0' S=0.0103 '/' Capacity=564.20 cfs Outflow=72.03 cfs 9.273 af

Reach 615R: Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.035 L=1,207.0' S=0.0135 '/' Capacity=328.77 cfs Outflow=0.00 cfs 0.000 af

Reach 616R: Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.035 L=235.0' S=0.0085 '/' Capacity=585.64 cfs Outflow=0.00 cfs 0.000 af

Reach 617R: Peak Depth=0.00' Max Vel=0.0 fps Inflow=0.00 cfs 0.000 af
n=0.040 L=875.0' S=0.0070 '/' Capacity=465.69 cfs Outflow=0.00 cfs 0.000 af

Reach CR100: CUL-092 Peak Depth=1.50' Max Vel=3.6 fps Inflow=14.20 cfs 1.499 af
D=18.0" n=0.024 L=50.0' S=0.0100 '/' Capacity=5.69 cfs Outflow=5.69 cfs 1.499 af

Reach CR101: CUL-093 Peak Depth=3.00' Max Vel=3.9 fps Inflow=57.00 cfs 9.365 af
D=36.0" n=0.024 L=55.0' S=0.0045 '/' Capacity=24.36 cfs Outflow=25.84 cfs 9.362 af

Reach CR102: CUL-094 Peak Depth=1.25' Max Vel=2.0 fps Inflow=3.33 cfs 0.328 af
D=15.0" n=0.024 L=45.0' S=0.0038 '/' Capacity=2.15 cfs Outflow=2.19 cfs 0.328 af

Reach CR143: CUL-132 Peak Depth=1.50' Max Vel=0.4 fps Inflow=4.76 cfs 0.609 af
D=18.0" n=0.024 L=70.0' S=0.0001 '/' Capacity=0.68 cfs Outflow=0.70 cfs 0.530 af

Reach CR144: CUL-133 Peak Depth=3.00' Max Vel=2.4 fps Inflow=38.85 cfs 24.512 af
D=36.0" n=0.024 L=120.0' S=0.0017 '/' Capacity=14.75 cfs Outflow=15.77 cfs 11.997 af

Reach CR146: CUL-135 Peak Depth=1.25' Max Vel=2.7 fps Inflow=44.31 cfs 7.972 af
D=15.0" n=0.024 L=35.0' S=0.0071 '/' Capacity=2.96 cfs Outflow=3.16 cfs 2.674 af

Reach CR147: CUL-136 Peak Depth=1.25' Max Vel=5.6 fps Inflow=25.00 cfs 2.938 af
D=15.0" n=0.024 L=35.0' S=0.0300 '/' Capacity=6.06 cfs Outflow=6.06 cfs 2.938 af

Reach CR154: CUL-143 Peak Depth=0.55' Max Vel=2.8 fps Inflow=1.64 cfs 0.219 af
D=18.0" n=0.024 L=50.0' S=0.0100 '/' Capacity=5.69 cfs Outflow=1.64 cfs 0.219 af

Reach CR181: CUL-169 Peak Depth=1.50' Max Vel=2.4 fps Inflow=63.40 cfs 11.109 af
D=18.0" n=0.024 L=40.0' S=0.0042 '/' Capacity=3.71 cfs Outflow=3.90 cfs 2.153 af

Reach CR182: CUL-170 Peak Depth=2.67' Max Vel=4.9 fps Inflow=60.37 cfs 11.373 af
D=32.0" n=0.024 L=40.0' S=0.0082 '/' Capacity=23.97 cfs Outflow=25.16 cfs 11.371 af

Reach CR68: CUL-062 Peak Depth=0.67' Max Vel=3.1 fps Inflow=21.26 cfs 1.034 af
D=8.0" n=0.013 L=40.0' S=0.0082 '/' Capacity=1.10 cfs Outflow=1.10 cfs 0.685 af

Reach CR69: CUL-063 Peak Depth=0.59' Max Vel=2.5 fps Inflow=1.10 cfs 0.685 af
D=12.0" n=0.025 L=40.0' S=0.0100 '/' Capacity=1.85 cfs Outflow=1.18 cfs 0.684 af

Reach CR89: CUL-081 Peak Depth=0.00' Max Vel=0.0 fps
D=36.0" n=0.024 L=55.0' S=0.0076 '/' Capacity=31.57 cfs Outflow=0.00 cfs 0.000 af

Reach CR91: CUL-083 Peak Depth=2.00' Max Vel=2.5 fps Inflow=125.36 cfs 18.888 af
D=24.0" n=0.024 L=70.0' S=0.0033 '/' Capacity=7.02 cfs Outflow=7.39 cfs 6.486 af

Reach CR92: CUL-084 Peak Depth=1.25' Max Vel=2.1 fps Inflow=6.09 cfs 0.700 af
D=15.0" n=0.024 L=40.0' S=0.0043 '/' Capacity=2.28 cfs Outflow=2.28 cfs 0.700 af

Reach CR93: CUL-085 Peak Depth=1.25' Max Vel=3.0 fps Inflow=40.99 cfs 6.084 af
D=15.0" n=0.024 L=48.0' S=0.0088 '/' Capacity=3.27 cfs Outflow=3.51 cfs 2.708 af

Reach CR96: CUL-088 Peak Depth=1.25' Max Vel=5.5 fps Inflow=25.27 cfs 3.890 af
D=15.0" n=0.010 L=40.0' S=0.0050 '/' Capacity=5.94 cfs Outflow=6.15 cfs 3.890 af

Reach CR98: CUL-090 Peak Depth=1.50' Max Vel=3.3 fps Inflow=18.42 cfs 2.013 af
D=18.0" n=0.024 L=40.0' S=0.0082 '/' Capacity=5.17 cfs Outflow=5.34 cfs 2.012 af

Reach OUTLET O: CUL-138 Peak Depth=0.00' Max Vel=0.0 fps
D=66.0" n=0.015 L=55.0' S=0.0091 '/' Capacity=277.49 cfs Outflow=0.00 cfs 0.000 af

Pond 2P: Wetland Detention 30(Cul. ID 0 Peak Elev=46.28' Storage=13.030 af Inflow=120.84 cfs 23.009 af
Outflow=40.37 cfs 11.217 af

Pond 5P: Wetland Detention 7(Cul. ID 1 Peak Elev=36.08' Storage=90.800 af Inflow=694.01 cfs 274.363 af
Outflow=469.11 cfs 186.371 af

Pond 08P: Wetland Detention 8(Cul. ID 1 Peak Elev=20.54' Storage=2.213 af Inflow=516.76 cfs 198.853 af
Outflow=427.39 cfs 197.847 af

Pond 8P: Wetland Detention 8(Cul. ID 137) Peak Elev=0.00' Storage=0.000 af
Primary=0.00 cfs 0.000 af

Pond 9P: Wetland Detention 9(Cul. ID 193) Peak Elev=20.64' Storage=0.275 af Inflow=82.10 cfs 29.715 af
Outflow=85.92 cfs 29.448 af

Pond 10P: Wetland Detention 10(Cul. ID 164 Peak Elev=40.27' Storage=0.570 af Inflow=54.25 cfs 8.314 af
Outflow=61.64 cfs 8.314 af

Pond 11P: Wetland Detention 11(Cul. ID Peak Elev=57.36' Storage=12.531 af Inflow=187.79 cfs 27.898 af
Outflow=38.00 cfs 23.667 af

Pond 16P: Pond/Wet Area Peak Elev=23.10' Storage=2.146 af Inflow=3.90 cfs 2.153 af
Outflow=0.00 cfs 0.000 af

Pond 30P: Pond/Wet Area Peak Elev=14.59' Storage=1.205 af Inflow=475.26 cfs 240.010 af
Outflow=486.93 cfs 238.829 af

Pond 37P: Wetland Detention 37 Peak Elev=24.83' Storage=26.400 af Inflow=426.24 cfs 196.127 af
Outflow=499.83 cfs 169.775 af

Pond 44P: Pond/Wet Area Peak Elev=55.13' Storage=7.000 af Inflow=121.78 cfs 16.328 af
Outflow=144.63 cfs 9.420 af

Pond 45P: Pond/Wet Area Peak Elev=48.52' Storage=0.483 af Inflow=5.59 cfs 0.484 af
Outflow=0.00 cfs 0.000 af

Pond 47P: Pond/Wet Area Peak Elev=41.56' Storage=1.200 af Inflow=180.14 cfs 31.607 af
Outflow=179.95 cfs 30.407 af

Pond 48P: Pond/Wet Area Peak Elev=79.68' Storage=12.245 af Inflow=102.23 cfs 23.346 af
18.0" x 1.0' Culvert Outflow=63.40 cfs 11.109 af

Pond 50P: Pond/Wet Area Peak Elev=58.86' Storage=0.741 af Inflow=13.64 cfs 1.758 af
Outflow=21.26 cfs 1.034 af

Pond 51P: Pond/Wet Area Peak Elev=50.95' Storage=0.681 af Inflow=1.18 cfs 0.684 af
Outflow=0.00 cfs 0.000 af

Pond 74P: CB_74 Unsurveyed Peak Elev=105.54' Inflow=12.10 cfs 1.687 af
12.0" x 198.0' Culvert Outflow=12.10 cfs 1.687 af

Pond 176P: CB_176 Unsurveyed Peak Elev=106.54' Inflow=12.10 cfs 1.687 af
12.0" x 44.0' Culvert Outflow=12.10 cfs 1.687 af

Pond 180P: CB_180 Unsurveyed Peak Elev=76.55' Inflow=14.91 cfs 1.764 af
12.0" x 50.0' Culvert Outflow=14.91 cfs 1.764 af

Pond 181P: CB_181 Unsurveyed Peak Elev=213.25' Inflow=29.55 cfs 3.306 af
12.0" x 297.0' Culvert Outflow=29.55 cfs 3.306 af

Pond 183P: CB_183 Unsurveyed Peak Elev=119.55' Inflow=29.55 cfs 3.306 af
12.0" x 50.0' Culvert Outflow=29.55 cfs 3.306 af

Pond 184P: CB_184 Unsurveyed Peak Elev=119.05' Inflow=29.55 cfs 3.306 af
12.0" x 20.0' Culvert Outflow=29.55 cfs 3.306 af

Pond 185P: (new Pond) Inflow=3.86 cfs 0.329 af
Primary=3.86 cfs 0.329 af

Pond 186P: CB_186 Unsurveyed Peak Elev=54.86' Inflow=4.41 cfs 0.443 af
12.0" x 30.0' Culvert Outflow=4.41 cfs 0.443 af

Pond 187P: CB_187 Unsurveyed Peak Elev=54.56' Inflow=4.41 cfs 0.443 af
12.0" x 20.0' Culvert Outflow=4.41 cfs 0.443 af

Pond 245P: CB_245 Unsurveyed Peak Elev=188.84' Inflow=31.20 cfs 4.118 af
12.0" x 200.0' Culvert Outflow=31.20 cfs 4.118 af

Pond 246P: CB_246 Unsurveyed Peak Elev=107.01' Inflow=13.82 cfs 2.192 af
12.0" x 300.0' Culvert Outflow=13.82 cfs 2.192 af

Pond 247P: CB_247 Unsurveyed Peak Elev=95.54' Inflow=12.10 cfs 1.687 af
12.0" x 34.0' Culvert Outflow=12.10 cfs 1.687 af

Pond 248P: CB_248 Unsurveyed Peak Elev=85.65' Inflow=13.82 cfs 2.192 af
12.0" x 44.0' Culvert Outflow=13.82 cfs 2.192 af

Pond 249P: CB_249 Unsurveyed Peak Elev=89.59' Inflow=13.82 cfs 2.192 af
12.0" x 217.0' Culvert Outflow=13.82 cfs 2.192 af

Pond 279P: CB_279 Unsurveyed Peak Elev=58.24' Inflow=18.43 cfs 2.310 af
12.0" x 56.0' Culvert Outflow=18.43 cfs 2.310 af

Pond ID19: Pond/Wet Area Peak Elev=17.13' Storage=1.155 af Inflow=427.38 cfs 197.615 af
Outflow=437.53 cfs 196.437 af

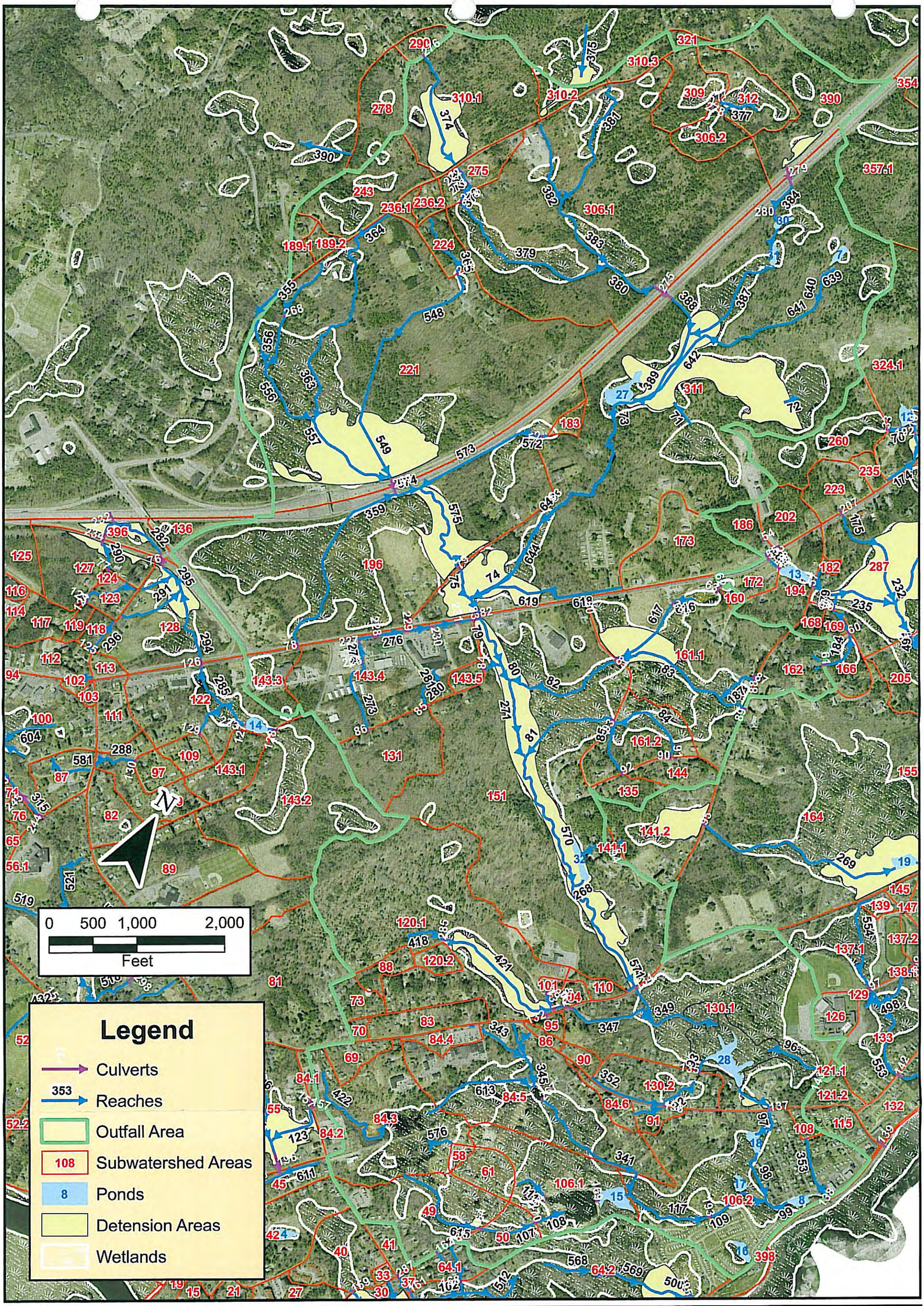
Pond ID29: Pond/Wet Area Peak Elev=0.00' Storage=0.000 af
Primary=0.00 cfs 0.000 af

Pond ID33: Pond/Wet Area Peak Elev=28.23' Storage=0.327 af Inflow=2.15 cfs 0.327 af
Outflow=0.00 cfs 0.000 af

Pond O: OUTFALL O (Cul 138) Peak Elev=11.49' Inflow=487.20 cfs 239.379 af
25.00' x 5.50' x 55.0' Culvert Outflow=487.20 cfs 239.379 af

York Watershed Current\OUTFALL O\Upstream\Area (O) Upstream (100 - Year)~Pond 5P Inflow=582.08 cfs 197.082 af
Primary=582.08 cfs 197.082 af

Total Runoff Area = 807.600 ac Runoff Volume = 259.895 af Average Runoff Depth = 3.86"



DRAWN BY: CJK	DATE: MAY 31, 2006
CHECKED BY: SJB	PROJECT: 060057018

Edwards AND Kelcey
ENGINEERS
ARCHITECTS
PLANNERS
CONSTRUCTORS

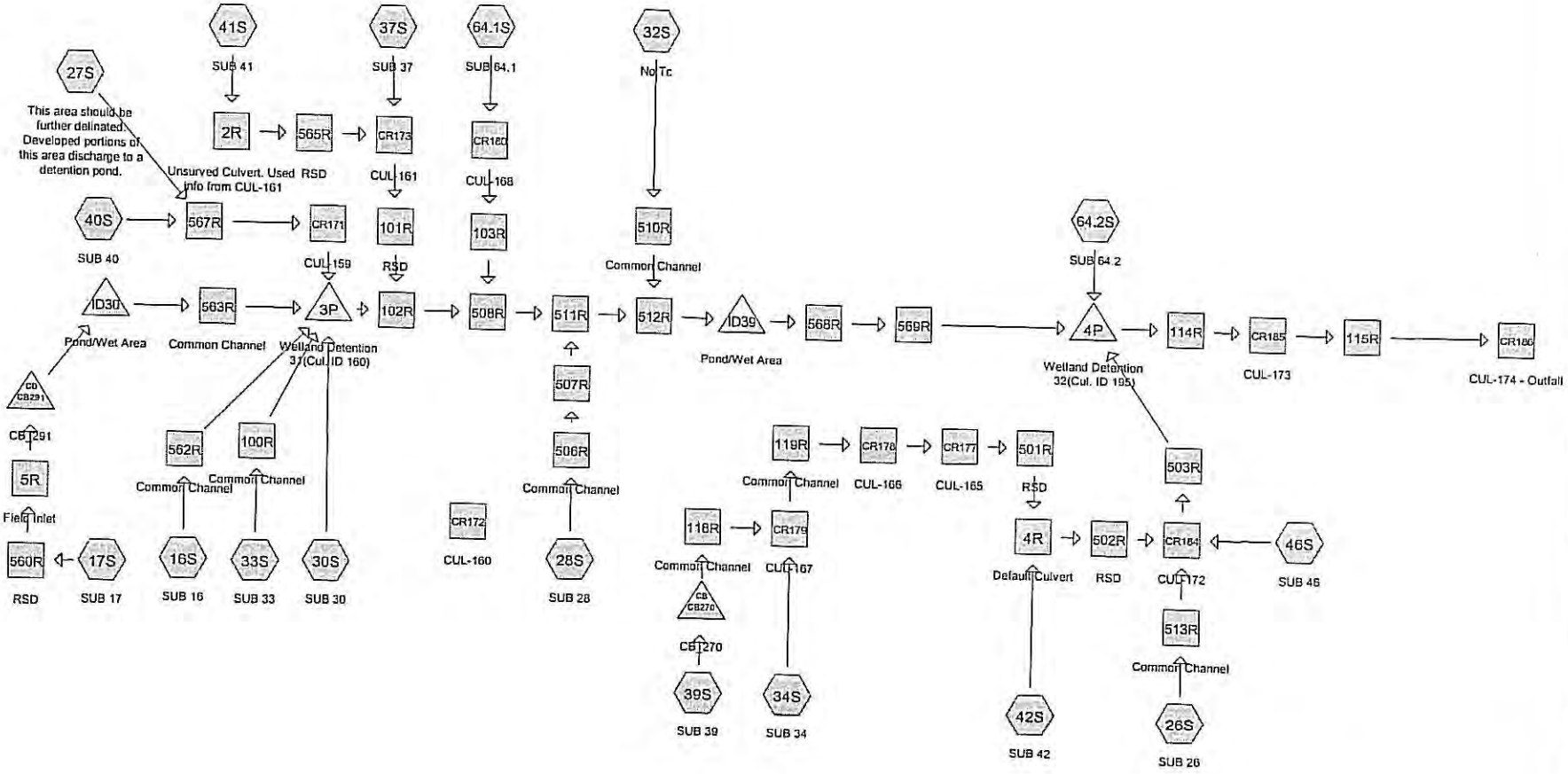
222 St. John Street Suite 314
Portland, Maine 04102
Tel. (207) 828-1272 Fax (207) 774-6907
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OUTFALL "P"

Data Sources:
Town of York
Maine Office of GIS

YORK WATERSHED MANAGEMENT
TOWN OF YORK, MAINE

T:\Projects\938\Maps\Outfall_P_11x17.mxd



Drainage Diagram for Area (P) (25-Year)

Prepared by Edwards and Kelcey 7/5/2006

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 16S: SUB 16 Runoff Area=2.610 ac Runoff Depth>3.61"
Flow Length=419' Tc=14.5 min CN=86 Runoff=8.83 cfs 0.785 af

Subcatchment 17S: SUB 17 Runoff Area=4.710 ac Runoff Depth>3.30"
Flow Length=580' Tc=23.7 min CN=83 Runoff=12.19 cfs 1.297 af

Subcatchment 26S: SUB 26 Runoff Area=1.340 ac Runoff Depth>3.70"
Flow Length=501' Tc=21.4 min CN=87 Runoff=3.98 cfs 0.414 af

Subcatchment 27S: This area should be further delinated. De Runoff Area=10.710 ac Runoff Depth>3.21"
Flow Length=501' Tc=21.4 min CN=82 Runoff=28.15 cfs 2.865 af

Subcatchment 28S: SUB 28 Runoff Area=2.760 ac Runoff Depth>3.50"
Flow Length=383' Tc=22.1 min CN=85 Runoff=7.73 cfs 0.806 af

Subcatchment 30S: SUB 30 Runoff Area=70.330 ac Runoff Depth>2.90"
Flow Length=995' Tc=49.6 min CN=79 Runoff=113.83 cfs 16.991 af

Subcatchment 32S: No Tc Runoff Area=1.930 ac Runoff Depth>3.29"
Flow Length=838' Tc=34.0 min CN=83 Runoff=4.25 cfs 0.530 af

Subcatchment 33S: SUB 33 Runoff Area=1.050 ac Runoff Depth>3.92"
Flow Length=250' Tc=13.2 min CN=89 Runoff=3.90 cfs 0.343 af

Subcatchment 34S: SUB 34 Runoff Area=2.820 ac Runoff Depth>3.20"
Flow Length=679' Tc=31.3 min CN=82 Runoff=6.28 cfs 0.752 af

Subcatchment 37S: SUB 37 Runoff Area=0.970 ac Runoff Depth>3.72"
Flow Length=272' Tc=11.1 min CN=87 Runoff=3.69 cfs 0.300 af

Subcatchment 39S: SUB 39 Runoff Area=2.580 ac Runoff Depth>3.23"
Flow Length=746' Tc=3.4 min CN=82 Runoff=11.12 cfs 0.694 af

Subcatchment 40S: SUB 40 Runoff Area=14.710 ac Runoff Depth>3.29"
Flow Length=693' Tc=39.9 min CN=83 Runoff=29.95 cfs 4.029 af

Subcatchment 41S: SUB 41 Runoff Area=3.700 ac Runoff Depth>3.49"
Flow Length=599' Tc=29.8 min CN=85 Runoff=9.10 cfs 1.077 af

Subcatchment 42S: SUB 42 Runoff Area=21.110 ac Runoff Depth>3.39"
Flow Length=900' Tc=32.3 min CN=84 Runoff=48.83 cfs 5.968 af

Subcatchment 46S: SUB 46 Runoff Area=46.640 ac Runoff Depth>3.11"
Flow Length=3,455' Tc=29.7 min CN=81 Runoff=103.45 cfs 12.073 af

Subcatchment 64.1S: SUB 64.1 Runoff Area=5.690 ac Runoff Depth>3.28"
Flow Length=533' Tc=44.8 min CN=83 Runoff=10.92 cfs 1.556 af

Subcatchment 64.2S: SUB 64.2 Runoff Area=78.020 ac Runoff Depth>2.65"
Flow Length=3,624' Tc=30.4 min CN=76 Runoff=147.07 cfs 17.214 af

Reach 2R: Unsurved Culvert. Used info from Peak Depth=1.00' Max Vel=1.8 fps Inflow=9.10 cfs 1.077 af
D=12.0" n=0.024 L=50.0' S=0.0040 '/' Capacity=1.22 cfs Outflow=1.24 cfs 0.972 af

Reach 4R: Default Culvert Peak Depth=1.62' Max Vel=12.9 fps Inflow=50.02 cfs 6.916 af
D=36.0" n=0.011 L=40.0' S=0.0125 '/' Capacity=88.13 cfs Outflow=50.01 cfs 6.915 af

Reach 5R: Field Inlet Peak Depth=0.97' Max Vel=11.8 fps Inflow=12.14 cfs 1.296 af
D=15.0" n=0.012 L=105.0' S=0.0333 '/' Capacity=12.78 cfs Outflow=12.13 cfs 1.296 af

Reach 100R: Common Channel Peak Depth=0.24' Max Vel=1.9 fps Inflow=3.90 cfs 0.343 af
n=0.040 L=285.0' S=0.0263 '/' Capacity=901.09 cfs Outflow=3.79 cfs 0.342 af

Reach 101R: RSD Peak Depth=0.12' Max Vel=1.6 fps Inflow=0.33 cfs 0.313 af
n=0.030 L=204.0' S=0.0217 '/' Capacity=83.02 cfs Outflow=0.33 cfs 0.312 af

Reach 102R: Peak Depth=0.64' Max Vel=2.2 fps Inflow=14.01 cfs 9.648 af
n=0.030 L=522.0' S=0.0048 '/' Capacity=489.96 cfs Outflow=14.01 cfs 9.499 af

Reach 103R: Peak Depth=0.59' Max Vel=1.5 fps Inflow=8.29 cfs 1.556 af
n=0.035 L=130.0' S=0.0032 '/' Capacity=158.80 cfs Outflow=8.29 cfs 1.553 af

Reach 114R: Peak Depth=1.02' Max Vel=1.5 fps Inflow=46.03 cfs 26.515 af
n=0.060 L=161.0' S=0.0050 '/' Capacity=749.09 cfs Outflow=44.24 cfs 26.326 af

Reach 115R: Peak Depth=1.86' Max Vel=2.2 fps Inflow=44.19 cfs 26.316 af
n=0.060 L=30.0' S=0.0067 '/' Capacity=235.72 cfs Outflow=44.08 cfs 26.293 af

Reach 118R: Common Channel Peak Depth=0.46' Max Vel=2.2 fps Inflow=11.12 cfs 0.694 af
n=0.040 L=159.0' S=0.0155 '/' Capacity=692.32 cfs Outflow=10.23 cfs 0.693 af

Reach 119R: Common Channel Peak Depth=0.24' Max Vel=1.3 fps Inflow=2.51 cfs 1.444 af
n=0.040 L=367.0' S=0.0109 '/' Capacity=579.90 cfs Outflow=2.51 cfs 1.437 af

Reach 501R: RSD Peak Depth=0.26' Max Vel=2.4 fps Inflow=1.23 cfs 0.958 af
n=0.030 L=445.0' S=0.0200 '/' Capacity=79.77 cfs Outflow=1.22 cfs 0.948 af

Reach 502R: RSD Peak Depth=1.40' Max Vel=8.3 fps Inflow=50.01 cfs 6.915 af
n=0.030 L=151.0' S=0.0395 '/' Capacity=112.15 cfs Outflow=49.95 cfs 6.912 af

Reach 503R: Peak Depth=0.42' Max Vel=0.6 fps Inflow=8.77 cfs 7.357 af
n=0.080 L=332.0' S=0.0036 '/' Capacity=438.44 cfs Outflow=8.38 cfs 7.137 af

Reach 506R: Common Channel Peak Depth=0.34' Max Vel=2.4 fps Inflow=7.73 cfs 0.806 af
n=0.040 L=616.0' S=0.0260 '/' Capacity=895.22 cfs Outflow=7.43 cfs 0.801 af

Reach 507R: Peak Depth=0.34' Max Vel=2.4 fps Inflow=7.43 cfs 0.801 af
n=0.030 L=309.0' S=0.0117 '/' Capacity=767.25 cfs Outflow=7.35 cfs 0.798 af

Reach 508R: Peak Depth=0.90' Max Vel=2.2 fps Inflow=21.29 cfs 11.052 af
n=0.030 L=31.0' S=0.0032 '/' Capacity=403.73 cfs Outflow=21.26 cfs 11.042 af

Reach 510R: Common Channel Peak Depth=0.22' Max Vel=2.3 fps Inflow=4.25 cfs 0.530 af
n=0.040 L=512.0' S=0.0391 '/' Capacity=1,097.84 cfs Outflow=4.19 cfs 0.527 af

Reach 511R: Peak Depth=1.01' Max Vel=2.2 fps Inflow=24.17 cfs 11.840 af
n=0.030 L=333.0' S=0.0027 '/' Capacity=369.54 cfs Outflow=24.14 cfs 11.729 af

Reach 512R: Peak Depth=0.87' Max Vel=3.1 fps Inflow=28.23 cfs 12.256 af
n=0.030 L=444.0' S=0.0063 '/' Capacity=564.49 cfs Outflow=28.16 cfs 12.148 af

Reach 513R: Common Channel Peak Depth=0.23' Max Vel=1.3 fps Inflow=3.98 cfs 0.414 af
n=0.040 L=2,495.0' S=0.0118 '/' Capacity=603.69 cfs Outflow=2.47 cfs 0.395 af

Reach 560R: RSD Peak Depth=0.71' Max Vel=5.8 fps Inflow=12.19 cfs 1.297 af
n=0.030 L=86.0' S=0.0407 '/' Capacity=113.78 cfs Outflow=12.14 cfs 1.296 af

Reach 562R: Common Channel Peak Depth=0.33' Max Vel=2.8 fps Inflow=8.83 cfs 0.785 af
n=0.040 L=479.0' S=0.0374 '/' Capacity=1,073.79 cfs Outflow=8.54 cfs 0.782 af

Reach 563R: Common Channel Peak Depth=0.25' Max Vel=3.2 fps Inflow=6.85 cfs 1.026 af
n=0.040 L=233.0' S=0.0639 '/' Capacity=1,404.67 cfs Outflow=6.84 cfs 1.024 af

Reach 565R: RSD Peak Depth=0.25' Max Vel=2.5 fps Inflow=1.24 cfs 0.972 af
n=0.030 L=193.0' S=0.0240 '/' Capacity=87.36 cfs Outflow=1.23 cfs 0.968 af

Reach 567R: Peak Depth=1.05' Max Vel=3.0 fps Inflow=52.05 cfs 6.894 af
n=0.040 L=33.0' S=0.0121 '/' Capacity=1,245.73 cfs Outflow=52.03 cfs 6.893 af

Reach 568R: Peak Depth=0.79' Max Vel=3.1 fps Inflow=52.05 cfs 9.596 af
n=0.030 L=590.0' S=0.0071 '/' Capacity=599.74 cfs Outflow=25.38 cfs 9.426 af

Reach 569R: Peak Depth=0.64' Max Vel=3.1 fps Inflow=25.38 cfs 9.426 af
n=0.040 L=661.0' S=0.0219 '/' Capacity=822.70 cfs Outflow=24.90 cfs 9.272 af

Reach CR171: CUL-159 Peak Depth=1.50' Max Vel=3.2 fps Inflow=52.03 cfs 6.893 af
D=18.0" n=0.024 L=40.0' S=0.0075 '/' Capacity=4.93 cfs Outflow=5.20 cfs 4.077 af

Reach CR172: CUL-160 Peak Depth=0.00' Max Vel=0.0 fps
D=24.0" n=0.024 L=60.0' S=0.0057 '/' Capacity=9.22 cfs Outflow=0.00 cfs 0.000 af

Reach CR173: CUL-161 Peak Depth=1.00' Max Vel=2.3 fps Inflow=4.91 cfs 1.268 af
D=12.0" n=0.024 L=40.0' S=0.0068 '/' Capacity=0.32 cfs Outflow=0.33 cfs 0.313 af

Reach CR177: CUL-165 Peak Depth=0.29' Max Vel=5.6 fps Inflow=1.24 cfs 0.959 af
D=15.0" n=0.024 L=130.0' S=0.0846 '/' Capacity=10.18 cfs Outflow=1.23 cfs 0.958 af

Reach CR178: CUL-166 Peak Depth=1.00' Max Vel=1.7 fps Inflow=2.51 cfs 1.437 af
D=12.0" n=0.010 L=150.0' S=0.0007 '/' Capacity=1.20 cfs Outflow=1.24 cfs 0.959 af

Reach CR179: CUL-167 Peak Depth=1.00' Max Vel=3.6 fps Inflow=12.97 cfs 1.445 af
D=12.0" n=0.024 L=150.0' S=0.0169 '/' Capacity=2.51 cfs Outflow=2.51 cfs 1.444 af

Reach CR180: CUL-168 Peak Depth=2.00' Max Vel=3.0 fps Inflow=10.92 cfs 1.556 af
D=24.0" n=0.024 L=35.0' S=0.0046 '/' Capacity=8.29 cfs Outflow=8.29 cfs 1.556 af

Reach CR184: CUL-172 Peak Depth=2.00' Max Vel=3.0 fps Inflow=153.48 cfs 19.380 af
D=24.0" n=0.020 L=40.0' S=0.0033 '/' Capacity=8.38 cfs Outflow=8.77 cfs 7.357 af

Reach CR185: CUL-173 Peak Depth=2.14' Max Vel=8.2 fps Inflow=44.24 cfs 26.326 af
D=36.0" n=0.013 L=50.0' S=0.0060 '/' Capacity=51.66 cfs Outflow=44.19 cfs 26.316 af

Reach CR186: CUL-174 - Outfall Peak Depth=1.90' Max Vel=9.3 fps Inflow=44.08 cfs 26.293 af
D=36.0" n=0.013 L=85.0' S=0.0082 '/' Capacity=60.53 cfs Outflow=43.83 cfs 26.278 af

Pond 3P: Wetland Detention 31(Cul. ID 1 Peak Elev=38.17' Storage=14.359 af Inflow=130.07 cfs 23.216 af
Outflow=13.69 cfs 9.337 af

Pond 4P: Wetland Detention 32(Cul. ID 1 Peak Elev=14.11' Storage=10.010 af Inflow=155.45 cfs 33.622 af
Outflow=46.03 cfs 26.515 af

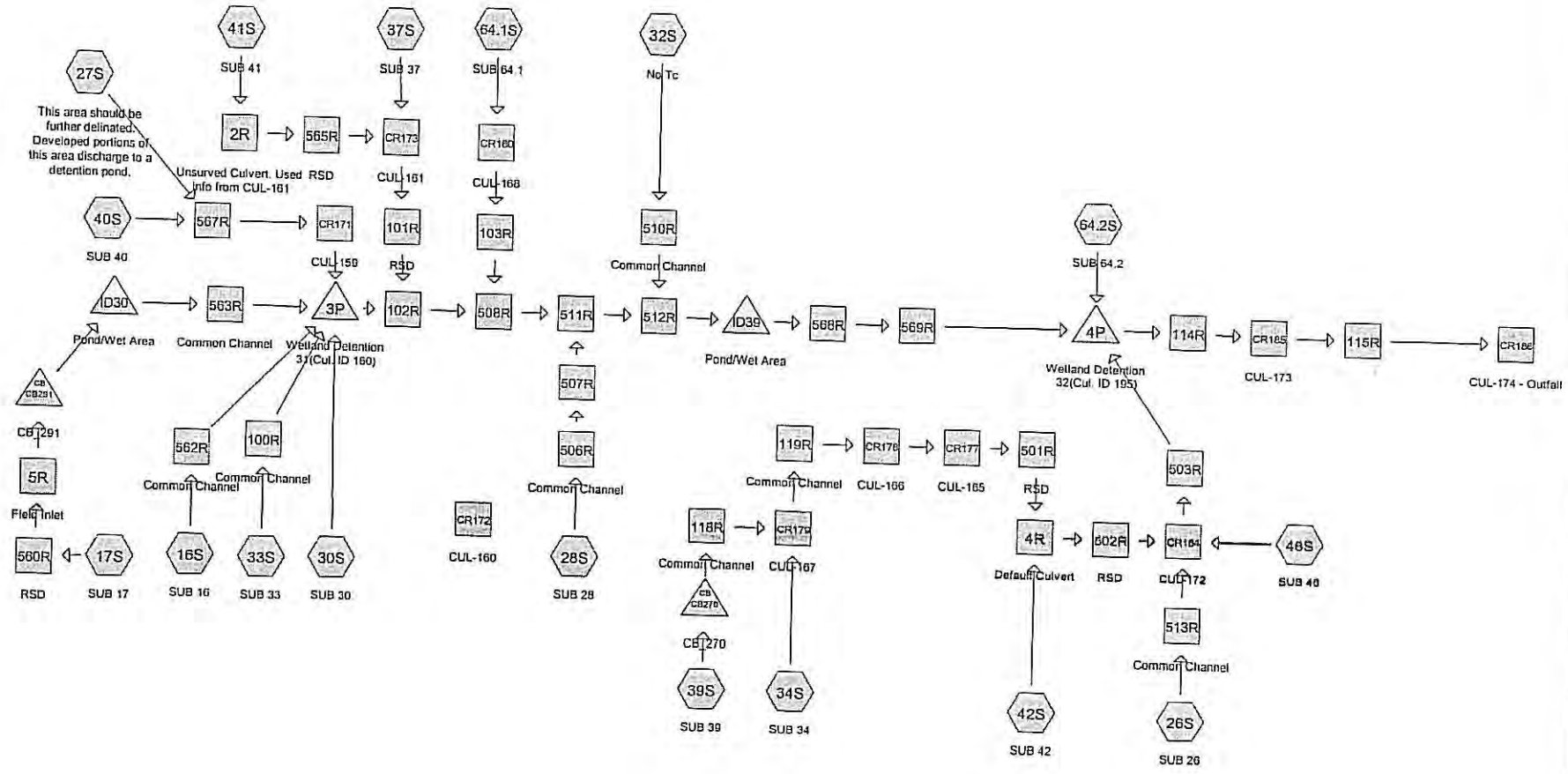
Pond CB270: CB_270 Peak Elev=68.28' Inflow=11.12 cfs 0.694 af
12.0" x 35.0' Culvert Outflow=11.12 cfs 0.694 af

Pond CB291: CB_291 Peak Elev=59.09' Inflow=12.13 cfs 1.296 af
15.0" x 69.0' Culvert Outflow=12.13 cfs 1.296 af

Pond ID30: Pond/Wet Area Peak Elev=55.47' Storage=0.502 af Inflow=12.13 cfs 1.296 af
15.0" x 105.0' Culvert Outflow=6.85 cfs 1.026 af

Pond ID39: Pond/Wet Area Peak Elev=30.57' Storage=2.605 af Inflow=28.16 cfs 12.148 af
Outflow=52.05 cfs 9.596 af

Total Runoff Area = 271.680 ac Runoff Volume = 67.694 af Average Runoff Depth = 2.99"



Drainage Diagram for Area (P) (50-Year)

Prepared by Edwards and Kelcey 7/5/2006

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 16S: SUB 16 Runoff Area=2.610 ac Runoff Depth>3.97"
Flow Length=419' Tc=14.5 min CN=86 Runoff=9.67 cfs 0.863 af

Subcatchment 17S: SUB 17 Runoff Area=4.710 ac Runoff Depth>3.65"
Flow Length=580' Tc=23.7 min CN=83 Runoff=13.42 cfs 1.433 af

Subcatchment 26S: SUB 26 Runoff Area=1.340 ac Runoff Depth>4.07"
Flow Length=501' Tc=21.4 min CN=87 Runoff=4.35 cfs 0.454 af

Subcatchment 27S: This area should be further delinated. De Runoff Area=10.710 ac Runoff Depth>3.55"
Flow Length=501' Tc=21.4 min CN=82 Runoff=31.07 cfs 3.172 af

Subcatchment 28S: SUB 28 Runoff Area=2.760 ac Runoff Depth>3.86"
Flow Length=383' Tc=22.1 min CN=85 Runoff=8.48 cfs 0.887 af

Subcatchment 30S: SUB 30 Runoff Area=70.330 ac Runoff Depth>3.23"
Flow Length=995' Tc=49.6 min CN=79 Runoff=126.58 cfs 18.927 af

Subcatchment 32S: No Tc Runoff Area=1.930 ac Runoff Depth>3.64"
Flow Length=838' Tc=34.0 min CN=83 Runoff=4.68 cfs 0.585 af

Subcatchment 33S: SUB 33 Runoff Area=1.050 ac Runoff Depth>4.28"
Flow Length=250' Tc=13.2 min CN=89 Runoff=4.25 cfs 0.375 af

Subcatchment 34S: SUB 34 Runoff Area=2.820 ac Runoff Depth>3.54"
Flow Length=679' Tc=31.3 min CN=82 Runoff=6.93 cfs 0.833 af

Subcatchment 37S: SUB 37 Runoff Area=0.970 ac Runoff Depth>4.08"
Flow Length=272' Tc=11.1 min CN=87 Runoff=4.03 cfs 0.330 af

Subcatchment 39S: SUB 39 Runoff Area=2.580 ac Runoff Depth>3.57"
Flow Length=746' Tc=3.4 min CN=82 Runoff=12.26 cfs 0.768 af

Subcatchment 40S: SUB 40 Runoff Area=14.710 ac Runoff Depth>3.63"
Flow Length=693' Tc=39.9 min CN=83 Runoff=32.99 cfs 4.454 af

Subcatchment 41S: SUB 41 Runoff Area=3.700 ac Runoff Depth>3.85"
Flow Length=599' Tc=29.8 min CN=85 Runoff=9.98 cfs 1.187 af

Subcatchment 42S: SUB 42 Runoff Area=21.110 ac Runoff Depth>3.74"
Flow Length=900' Tc=32.3 min CN=84 Runoff=53.67 cfs 6.585 af

Subcatchment 46S: SUB 46 Runoff Area=46.640 ac Runoff Depth>3.45"
Flow Length=3,455' Tc=29.7 min CN=81 Runoff=114.44 cfs 13.394 af

Subcatchment 64.1S: SUB 64.1 Runoff Area=5.690 ac Runoff Depth>3.63"
Flow Length=533' Tc=44.8 min CN=83 Runoff=12.03 cfs 1.720 af

Subcatchment 64.2S: SUB 64.2 Runoff Area=78.020 ac Runoff Depth>2.97"
Flow Length=3,624' Tc=30.4 min CN=76 Runoff=164.75 cfs 19.287 af

Reach 2R: Unsurved Culvert. Used info from Peak Depth=1.00' Max Vel=1.8 fps Inflow=9.98 cfs 1.187 af
D=12.0" n=0.024 L=50.0' S=0.0040 '/' Capacity=1.22 cfs Outflow=1.28 cfs 0.993 af

Reach 4R: Default Culvert Peak Depth=1.71' Max Vel=13.1 fps Inflow=54.86 cfs 7.556 af
D=36.0" n=0.011 L=40.0' S=0.0125 '/' Capacity=88.13 cfs Outflow=54.85 cfs 7.555 af

Reach 5R: Field Inlet Peak Depth=1.09' Max Vel=11.9 fps Inflow=13.38 cfs 1.433 af
D=15.0" n=0.012 L=105.0' S=0.0333 '/' Capacity=12.78 cfs Outflow=13.36 cfs 1.433 af

Reach 100R: Common Channel Peak Depth=0.25' Max Vel=2.0 fps Inflow=4.25 cfs 0.375 af
n=0.040 L=285.0' S=0.0263 '/' Capacity=901.09 cfs Outflow=4.13 cfs 0.374 af

Reach 101R: RSD Peak Depth=0.12' Max Vel=1.6 fps Inflow=0.33 cfs 0.321 af
n=0.030 L=204.0' S=0.0217 '/' Capacity=83.02 cfs Outflow=0.33 cfs 0.319 af

Reach 102R: Peak Depth=0.66' Max Vel=2.3 fps Inflow=14.76 cfs 10.228 af
n=0.030 L=522.0' S=0.0048 '/' Capacity=489.96 cfs Outflow=14.76 cfs 10.073 af

Reach 103R: Peak Depth=0.61' Max Vel=1.6 fps Inflow=9.21 cfs 1.720 af
n=0.035 L=130.0' S=0.0032 '/' Capacity=158.80 cfs Outflow=8.54 cfs 1.717 af

Reach 114R: Peak Depth=1.38' Max Vel=1.7 fps Inflow=89.78 cfs 29.127 af
n=0.060 L=161.0' S=0.0050 '/' Capacity=749.09 cfs Outflow=77.42 cfs 28.948 af

Reach 115R: Peak Depth=2.05' Max Vel=2.4 fps Inflow=54.65 cfs 28.938 af
n=0.060 L=30.0' S=0.0067 '/' Capacity=235.72 cfs Outflow=54.12 cfs 28.915 af

Reach 118R: Common Channel Peak Depth=0.49' Max Vel=2.2 fps Inflow=12.26 cfs 0.768 af
n=0.040 L=159.0' S=0.0155 '/' Capacity=692.32 cfs Outflow=11.29 cfs 0.767 af

Reach 119R: Common Channel Peak Depth=0.24' Max Vel=1.3 fps Inflow=2.51 cfs 1.599 af
n=0.040 L=367.0' S=0.0109 '/' Capacity=579.90 cfs Outflow=2.51 cfs 1.591 af

Reach 501R: RSD Peak Depth=0.26' Max Vel=2.4 fps Inflow=1.25 cfs 0.981 af
n=0.030 L=445.0' S=0.0200 '/' Capacity=79.77 cfs Outflow=1.24 cfs 0.971 af

Reach 502R: RSD Peak Depth=1.46' Max Vel=8.5 fps Inflow=54.85 cfs 7.555 af
n=0.030 L=151.0' S=0.0395 '/' Capacity=112.15 cfs Outflow=54.78 cfs 7.552 af

Reach 503R: Peak Depth=0.42' Max Vel=0.6 fps Inflow=8.89 cfs 7.544 af
n=0.080 L=332.0' S=0.0036 '/' Capacity=438.44 cfs Outflow=8.43 cfs 7.324 af

Reach 506R: Common Channel Peak Depth=0.35' Max Vel=2.4 fps Inflow=8.48 cfs 0.887 af
n=0.040 L=616.0' S=0.0260 '/' Capacity=895.22 cfs Outflow=8.17 cfs 0.882 af

Reach 507R: Peak Depth=0.36' Max Vel=2.5 fps Inflow=8.17 cfs 0.882 af
n=0.030 L=309.0' S=0.0117 '/' Capacity=767.25 cfs Outflow=8.08 cfs 0.879 af

Reach 508R: Peak Depth=0.90' Max Vel=2.2 fps Inflow=21.52 cfs 11.790 af
n=0.030 L=31.0' S=0.0032 '/' Capacity=403.73 cfs Outflow=21.48 cfs 11.780 af

Reach 510R: Common Channel Peak Depth=0.23' Max Vel=2.4 fps Inflow=4.68 cfs 0.585 af
n=0.040 L=512.0' S=0.0391 '/' Capacity=1,097.84 cfs Outflow=4.62 cfs 0.582 af

Reach 511R: Peak Depth=1.04' Max Vel=2.2 fps Inflow=25.45 cfs 12.659 af
n=0.030 L=333.0' S=0.0027 '/' Capacity=369.54 cfs Outflow=25.39 cfs 12.544 af

Reach 512R: Peak Depth=0.90' Max Vel=3.1 fps Inflow=29.94 cfs 13.127 af
n=0.030 L=444.0' S=0.0063 '/' Capacity=564.49 cfs Outflow=29.86 cfs 13.014 af

Reach 513R: Common Channel Peak Depth=0.24' Max Vel=1.3 fps Inflow=4.35 cfs 0.454 af
n=0.040 L=2,495.0' S=0.0118 '/' Capacity=603.69 cfs Outflow=2.73 cfs 0.435 af

Reach 560R: RSD Peak Depth=0.75' Max Vel=6.0 fps Inflow=13.42 cfs 1.433 af
n=0.030 L=86.0' S=0.0407 '/' Capacity=113.78 cfs Outflow=13.38 cfs 1.433 af

Reach 562R: Common Channel Peak Depth=0.35' Max Vel=2.9 fps Inflow=9.67 cfs 0.863 af
n=0.040 L=479.0' S=0.0374 '/' Capacity=1,073.79 cfs Outflow=9.35 cfs 0.860 af

Reach 563R: Common Channel Peak Depth=0.27' Max Vel=3.3 fps Inflow=7.54 cfs 1.161 af
n=0.040 L=233.0' S=0.0639 '/' Capacity=1,404.67 cfs Outflow=7.53 cfs 1.159 af

Reach 565R: RSD Peak Depth=0.25' Max Vel=2.5 fps Inflow=1.28 cfs 0.993 af
n=0.030 L=193.0' S=0.0240 '/' Capacity=87.36 cfs Outflow=1.26 cfs 0.989 af

Reach 567R: Peak Depth=1.09' Max Vel=3.1 fps Inflow=57.42 cfs 7.627 af
n=0.040 L=33.0' S=0.0121 '/' Capacity=1,245.73 cfs Outflow=57.40 cfs 7.625 af

Reach 568R: Peak Depth=0.83' Max Vel=3.2 fps Inflow=35.16 cfs 10.396 af
n=0.030 L=590.0' S=0.0071 '/' Capacity=599.74 cfs Outflow=27.32 cfs 10.264 af

Reach 569R: Peak Depth=0.67' Max Vel=3.2 fps Inflow=27.32 cfs 10.264 af
n=0.040 L=661.0' S=0.0219 '/' Capacity=822.70 cfs Outflow=26.70 cfs 10.104 af

Reach CR171: CUL-159 Peak Depth=1.50' Max Vel=3.2 fps Inflow=57.40 cfs 7.625 af
D=18.0" n=0.024 L=40.0' S=0.0075 '/' Capacity=4.93 cfs Outflow=5.21 cfs 4.177 af

Reach CR172: CUL-160 Peak Depth=0.00' Max Vel=0.0 fps
D=24.0" n=0.024 L=60.0' S=0.0057 '/' Capacity=9.22 cfs Outflow=0.00 cfs 0.000 af

Reach CR173: CUL-161 Peak Depth=1.00' Max Vel=2.3 fps Inflow=5.25 cfs 1.318 af
D=12.0" n=0.024 L=40.0' S=0.0068 '/' Capacity=0.32 cfs Outflow=0.33 cfs 0.321 af

Reach CR177: CUL-165 Peak Depth=0.30' Max Vel=5.6 fps Inflow=1.26 cfs 0.982 af
D=15.0" n=0.024 L=130.0' S=0.0846 '/' Capacity=10.18 cfs Outflow=1.25 cfs 0.981 af

Reach CR178: CUL-166 Peak Depth=1.00' Max Vel=1.7 fps Inflow=2.51 cfs 1.591 af
D=12.0" n=0.010 L=150.0' S=0.0007 '/' Capacity=1.20 cfs Outflow=1.26 cfs 0.982 af

Reach CR179: CUL-167 Peak Depth=1.00' Max Vel=3.6 fps Inflow=14.33 cfs 1.600 af
D=12.0" n=0.024 L=150.0' S=0.0169 '/' Capacity=2.51 cfs Outflow=2.51 cfs 1.599 af

Reach CR180: CUL-168 Peak Depth=2.00' Max Vel=3.0 fps Inflow=12.03 cfs 1.720 af
D=24.0" n=0.024 L=35.0' S=0.0046 '/' Capacity=8.29 cfs Outflow=9.21 cfs 1.720 af

Reach CR184: CUL-172 Peak Depth=2.00' Max Vel=3.0 fps Inflow=169.35 cfs 21.381 af
D=24.0" n=0.020 L=40.0' S=0.0033 '/' Capacity=8.38 cfs Outflow=8.89 cfs 7.544 af

Reach CR185: CUL-173 Peak Depth=3.00' Max Vel=8.3 fps Inflow=77.42 cfs 28.948 af
D=36.0" n=0.013 L=50.0' S=0.0060 '/' Capacity=51.66 cfs Outflow=54.65 cfs 28.938 af

Reach CR186: CUL-174 - Outfall Peak Depth=2.20' Max Vel=9.7 fps Inflow=54.12 cfs 28.915 af
D=36.0" n=0.013 L=85.0' S=0.0082 '/' Capacity=60.53 cfs Outflow=53.78 cfs 28.900 af

Pond 3P: Wetland Detention 31(Cul. ID 1 Peak Elev=38.31' Storage=16.104 af Inflow=143.86 cfs 25.497 af
Outflow=14.44 cfs 9.909 af

Pond 4P: Wetland Detention 32(Cul. ID 1 Peak Elev=14.49' Storage=10.010 af Inflow=173.14 cfs 36.715 af
Outflow=89.78 cfs 29.127 af

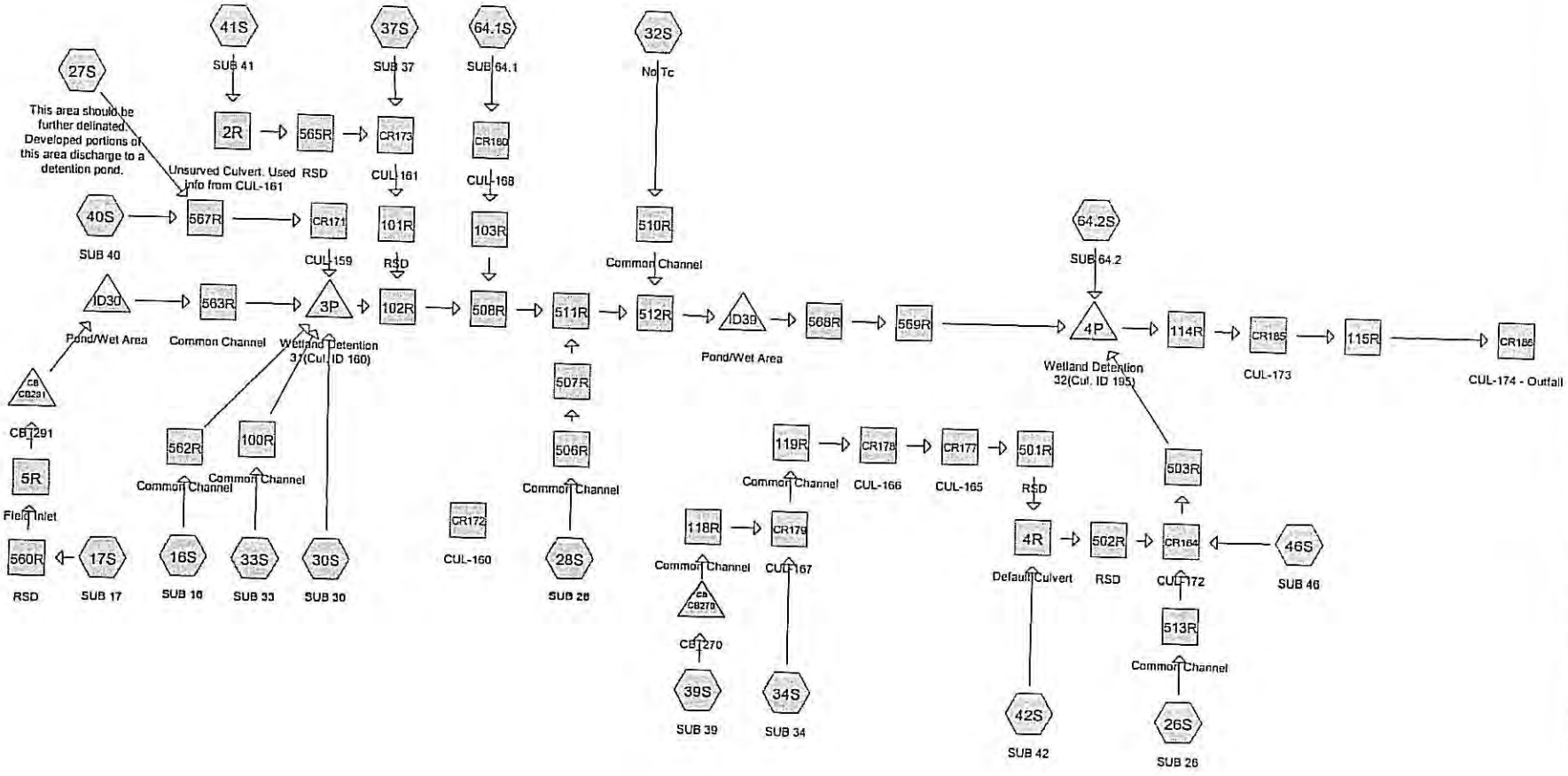
Pond CB270: CB_270 Peak Elev=71.81' Inflow=12.26 cfs 0.768 af
12.0" x 35.0' Culvert Outflow=12.26 cfs 0.768 af

Pond CB291: CB_291 Peak Elev=60.04' Inflow=13.36 cfs 1.433 af
15.0" x 69.0' Culvert Outflow=13.36 cfs 1.433 af

Pond ID30: Pond/Wet Area Peak Elev=55.75' Storage=0.543 af Inflow=13.36 cfs 1.433 af
15.0" x 105.0' Culvert Outflow=7.54 cfs 1.161 af

Pond ID39: Pond/Wet Area Peak Elev=30.20' Storage=2.605 af Inflow=29.86 cfs 13.014 af
Outflow=35.16 cfs 10.396 af

Total Runoff Area = 271.680 ac Runoff Volume = 75.256 af Average Runoff Depth = 3.32"



Drainage Diagram for Area (P) (100-Year)

Prepared by Edwards and Kelcey 7/5/2006

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 16S: SUB 16 Runoff Area=2.610 ac Runoff Depth>4.69"
Flow Length=419' Tc=14.5 min CN=86 Runoff=11.34 cfs 1.021 af

Subcatchment 17S: SUB 17 Runoff Area=4.710 ac Runoff Depth>4.36"
Flow Length=580' Tc=23.7 min CN=83 Runoff=15.90 cfs 1.710 af

Subcatchment 26S: SUB 26 Runoff Area=1.340 ac Runoff Depth>4.79"
Flow Length=501' Tc=21.4 min CN=87 Runoff=5.08 cfs 0.535 af

Subcatchment 27S: This area should be further delinated. De Runoff Area=10.710 ac Runoff Depth>4.25"
Flow Length=501' Tc=21.4 min CN=82 Runoff=36.94 cfs 3.797 af

Subcatchment 28S: SUB 28 Runoff Area=2.760 ac Runoff Depth>4.58"
Flow Length=383' Tc=22.1 min CN=85 Runoff=9.98 cfs 1.052 af

Subcatchment 30S: SUB 30 Runoff Area=70.330 ac Runoff Depth>3.90"
Flow Length=995' Tc=49.6 min CN=79 Runoff=152.26 cfs 22.875 af

Subcatchment 32S: No Tc Runoff Area=1.930 ac Runoff Depth>4.34"
Flow Length=838' Tc=34.0 min CN=83 Runoff=5.54 cfs 0.699 af

Subcatchment 33S: SUB 33 Runoff Area=1.050 ac Runoff Depth>5.02"
Flow Length=250' Tc=13.2 min CN=89 Runoff=4.93 cfs 0.439 af

Subcatchment 34S: SUB 34 Runoff Area=2.820 ac Runoff Depth>4.24"
Flow Length=679' Tc=31.3 min CN=82 Runoff=8.25 cfs 0.997 af

Subcatchment 37S: SUB 37 Runoff Area=0.970 ac Runoff Depth>4.81"
Flow Length=272' Tc=11.1 min CN=87 Runoff=4.70 cfs 0.388 af

Subcatchment 39S: SUB 39 Runoff Area=2.580 ac Runoff Depth>4.28"
Flow Length=746' Tc=3.4 min CN=82 Runoff=14.56 cfs 0.920 af

Subcatchment 40S: SUB 40 Runoff Area=14.710 ac Runoff Depth>4.34"
Flow Length=693' Tc=39.9 min CN=83 Runoff=39.10 cfs 5.316 af

Subcatchment 41S: SUB 41 Runoff Area=3.700 ac Runoff Depth>4.56"
Flow Length=599' Tc=29.8 min CN=85 Runoff=11.75 cfs 1.408 af

Subcatchment 42S: SUB 42 Runoff Area=21.110 ac Runoff Depth>4.45"
Flow Length=900' Tc=32.3 min CN=84 Runoff=63.37 cfs 7.835 af

Subcatchment 46S: SUB 46 Runoff Area=46.640 ac Runoff Depth>4.14"
Flow Length=3,455' Tc=29.7 min CN=81 Runoff=136.56 cfs 16.082 af

Subcatchment 64.1S: SUB 64.1 Runoff Area=5.690 ac Runoff Depth>4.33"
Flow Length=533' Tc=44.8 min CN=83 Runoff=14.25 cfs 2.053 af

Subcatchment 64.2S: SUB 64.2 Runoff Area=78.020 ac Runoff Depth>3.62"
Flow Length=3,624' Tc=30.4 min CN=76 Runoff=200.44 cfs 23.537 af

Reach 2R: Unsurved Culvert. Used info from Peak Depth=1.00' Max Vel=1.8 fps Inflow=11.75 cfs 1.408 af
D=12.0" n=0.024 L=50.0' S=0.0040 '/' Capacity=1.22 cfs Outflow=1.27 cfs 1.034 af

Reach 4R: Default Culvert Peak Depth=1.91' Max Vel=13.6 fps Inflow=64.57 cfs 8.849 af
D=36.0" n=0.011 L=40.0' S=0.0125 '/' Capacity=88.13 cfs Outflow=64.55 cfs 8.849 af

Reach 5R: Field Inlet Peak Depth=1.25' Max Vel=11.9 fps Inflow=15.85 cfs 1.710 af
D=15.0" n=0.012 L=105.0' S=0.0333 '/' Capacity=12.78 cfs Outflow=12.84 cfs 1.710 af

Reach 100R: Common Channel Peak Depth=0.27' Max Vel=2.1 fps Inflow=4.93 cfs 0.439 af
n=0.040 L=285.0' S=0.0263 '/' Capacity=901.09 cfs Outflow=4.79 cfs 0.438 af

Reach 101R: RSD Peak Depth=0.12' Max Vel=1.6 fps Inflow=0.33 cfs 0.335 af
n=0.030 L=204.0' S=0.0217 '/' Capacity=83.02 cfs Outflow=0.33 cfs 0.333 af

Reach 102R: Peak Depth=0.69' Max Vel=2.3 fps Inflow=16.11 cfs 11.338 af
n=0.030 L=522.0' S=0.0048 '/' Capacity=489.96 cfs Outflow=16.11 cfs 11.173 af

Reach 103R: Peak Depth=0.59' Max Vel=1.5 fps Inflow=8.29 cfs 2.053 af
n=0.035 L=130.0' S=0.0032 '/' Capacity=158.80 cfs Outflow=8.29 cfs 2.049 af

Reach 114R: Peak Depth=1.90' Max Vel=2.0 fps Inflow=154.74 cfs 34.589 af
n=0.060 L=161.0' S=0.0050 '/' Capacity=749.09 cfs Outflow=139.38 cfs 34.417 af

Reach 115R: Peak Depth=2.02' Max Vel=2.4 fps Inflow=51.66 cfs 34.406 af
n=0.060 L=30.0' S=0.0067 '/' Capacity=235.72 cfs Outflow=52.37 cfs 34.383 af

Reach 118R: Common Channel Peak Depth=0.53' Max Vel=2.3 fps Inflow=14.56 cfs 0.920 af
n=0.040 L=159.0' S=0.0155 '/' Capacity=692.32 cfs Outflow=13.42 cfs 0.918 af

Reach 119R: Common Channel Peak Depth=0.24' Max Vel=1.3 fps Inflow=2.51 cfs 1.914 af
n=0.040 L=367.0' S=0.0109 '/' Capacity=579.90 cfs Outflow=2.51 cfs 1.905 af

Reach 501R: RSD Peak Depth=0.26' Max Vel=2.4 fps Inflow=1.25 cfs 1.025 af
n=0.030 L=445.0' S=0.0200 '/' Capacity=79.77 cfs Outflow=1.24 cfs 1.015 af

Reach 502R: RSD Peak Depth=1.57' Max Vel=8.9 fps Inflow=64.55 cfs 8.849 af
n=0.030 L=151.0' S=0.0395 '/' Capacity=112.15 cfs Outflow=64.47 cfs 8.845 af

Reach 503R: Peak Depth=0.43' Max Vel=0.6 fps Inflow=8.96 cfs 7.889 af
n=0.080 L=332.0' S=0.0036 '/' Capacity=438.44 cfs Outflow=8.53 cfs 7.670 af

Reach 506R: Common Channel Peak Depth=0.39' Max Vel=2.5 fps Inflow=9.98 cfs 1.052 af
n=0.040 L=616.0' S=0.0260 '/' Capacity=895.22 cfs Outflow=9.64 cfs 1.047 af

Reach 507R: Peak Depth=0.40' Max Vel=2.6 fps Inflow=9.64 cfs 1.047 af
n=0.030 L=309.0' S=0.0117 '/' Capacity=767.25 cfs Outflow=9.54 cfs 1.043 af

Reach 508R: Peak Depth=0.94' Max Vel=2.3 fps Inflow=23.27 cfs 13.222 af
n=0.030 L=31.0' S=0.0032 '/' Capacity=403.73 cfs Outflow=23.25 cfs 13.211 af

Reach 510R: Common Channel Peak Depth=0.26' Max Vel=2.5 fps Inflow=5.54 cfs 0.699 af
n=0.040 L=512.0' S=0.0391 '/' Capacity=1,097.84 cfs Outflow=5.48 cfs 0.695 af

Reach 511R: Peak Depth=1.09' Max Vel=2.3 fps Inflow=27.89 cfs 14.255 af
n=0.030 L=333.0' S=0.0027 '/' Capacity=369.54 cfs Outflow=27.83 cfs 14.133 af

Reach 512R: Peak Depth=0.95' Max Vel=3.2 fps Inflow=33.26 cfs 14.828 af
n=0.030 L=444.0' S=0.0063 '/' Capacity=564.49 cfs Outflow=33.16 cfs 14.708 af

Reach 513R: Common Channel Peak Depth=0.27' Max Vel=1.4 fps Inflow=5.08 cfs 0.535 af
n=0.040 L=2,495.0' S=0.0118 '/' Capacity=603.69 cfs Outflow=3.27 cfs 0.514 af

Reach 560R: RSD Peak Depth=0.81' Max Vel=6.2 fps Inflow=15.90 cfs 1.710 af
n=0.030 L=86.0' S=0.0407 '/' Capacity=113.78 cfs Outflow=15.85 cfs 1.710 af

Reach 562R: Common Channel Peak Depth=0.38' Max Vel=3.0 fps Inflow=11.34 cfs 1.021 af
n=0.040 L=479.0' S=0.0374 '/' Capacity=1,073.79 cfs Outflow=11.00 cfs 1.017 af

Reach 563R: Common Channel Peak Depth=0.38' Max Vel=3.9 fps Inflow=17.19 cfs 1.435 af
n=0.040 L=233.0' S=0.0639 '/' Capacity=1,404.67 cfs Outflow=12.92 cfs 1.433 af

Reach 565R: RSD Peak Depth=0.25' Max Vel=2.5 fps Inflow=1.27 cfs 1.034 af
n=0.030 L=193.0' S=0.0240 '/' Capacity=87.36 cfs Outflow=1.25 cfs 1.029 af

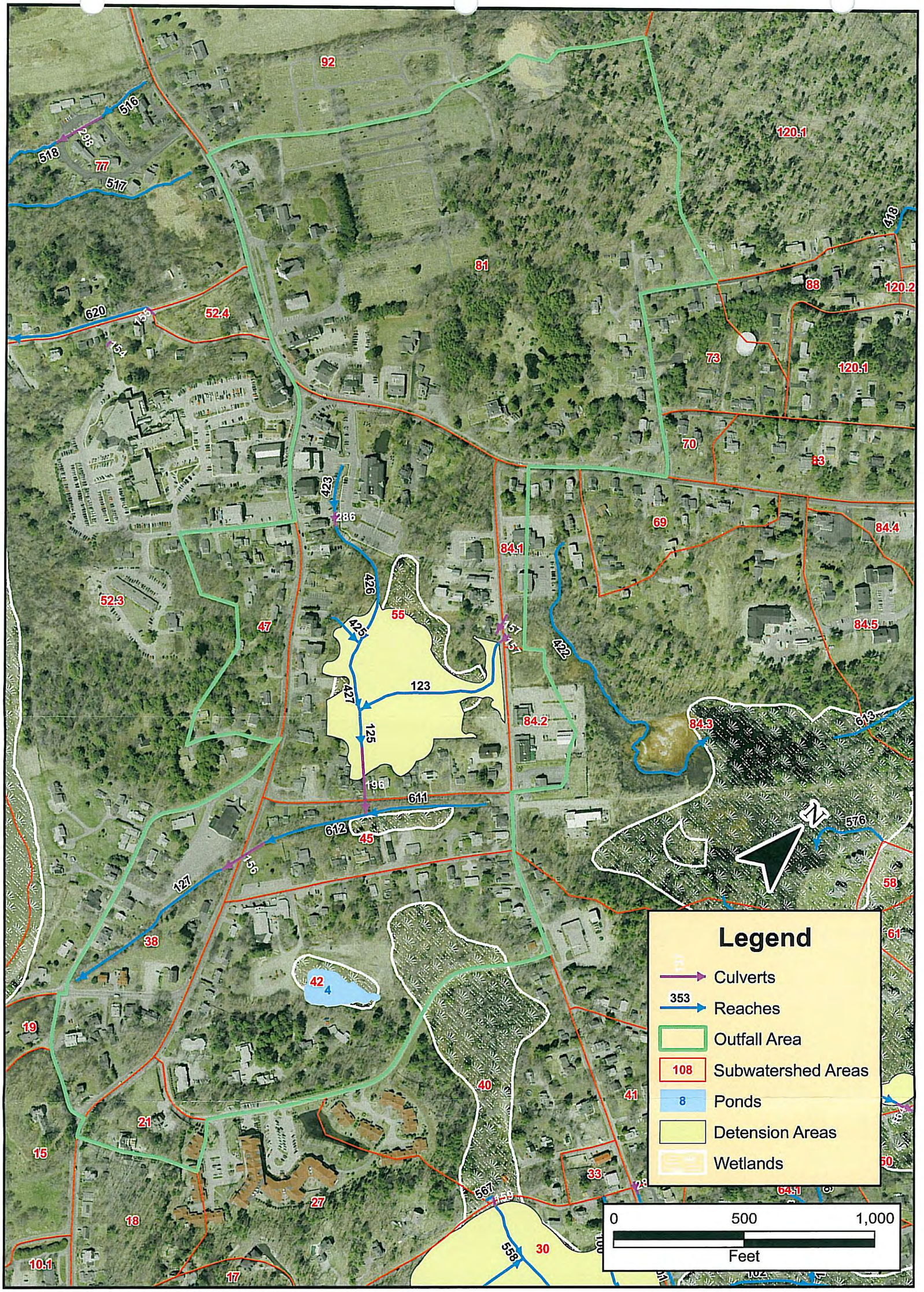
Reach 567R: Peak Depth=1.18' Max Vel=3.2 fps Inflow=68.21 cfs 9.112 af
n=0.040 L=33.0' S=0.0121 '/' Capacity=1,245.73 cfs Outflow=68.17 cfs 9.111 af

Reach 568R: Peak Depth=0.91' Max Vel=3.3 fps Inflow=53.81 cfs 12.087 af
n=0.030 L=590.0' S=0.0071 '/' Capacity=599.74 cfs Outflow=32.35 cfs 11.968 af

Reach 569R: Peak Depth=0.72' Max Vel=3.3 fps Inflow=32.35 cfs 11.968 af
n=0.040 L=661.0' S=0.0219 '/' Capacity=822.70 cfs Outflow=31.73 cfs 11.799 af

Reach CR171: CUL-159 Peak Depth=1.50' Max Vel=3.2 fps Inflow=68.17 cfs 9.111 af
D=18.0" n=0.024 L=40.0' S=0.0075 '/' Capacity=4.93 cfs Outflow=5.28 cfs 4.365 af

Reach CR172: CUL-160 Peak Depth=0.00' Max Vel=0.0 fps
D=24.0" n=0.024 L=60.0' S=0.0057 '/' Capacity=9.22 cfs Outflow=0.00 cfs 0.000 af



DRAWN BY: **CJK**	DATE: **MAY 31, 2006**
CHECKED BY: **SJB**	PROJECT: **060057018**

Edwards AND Kelcey
ENGINEERS
ARCHITECTS
PLANNERS
CONSTRUCTORS

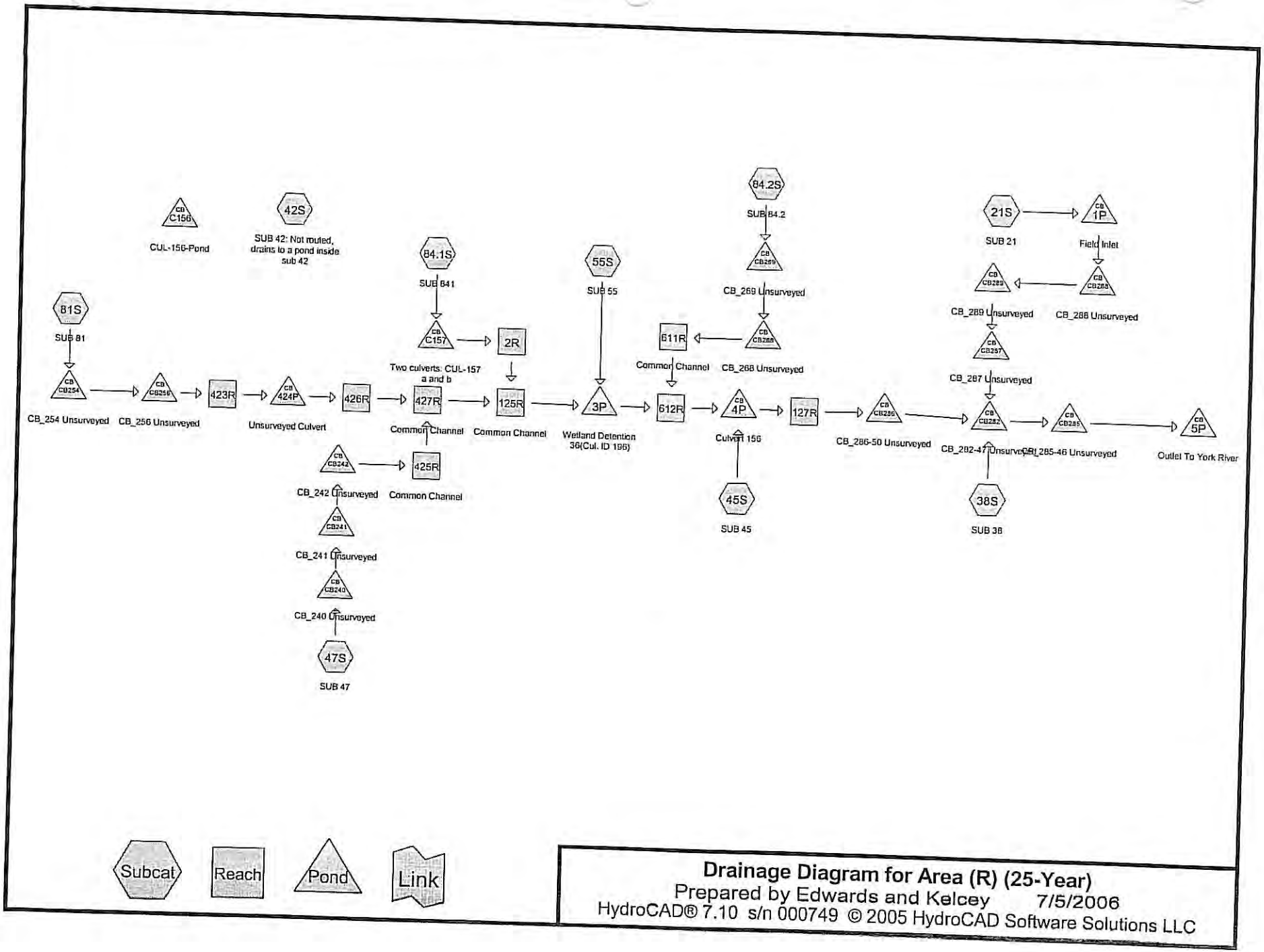
222 St. John Street Suite 314
Portland, Maine 04102
Tel. (207) 828-1272 Fax (207) 774-6907
www.ekcorp.com

OUTFALL "R"

Data Sources:
Town of York
Maine Office of GIS

YORK WATERSHED MANAGEMENT
TOWN OF YORK, MAINE

T:\Projects\938\Maps\Outfall_O_11x17.mxd



Drainage Diagram for Area (R) (25-Year)
Prepared by Edwards and Kelcey 7/5/2006
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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 21S: SUB 21 Runoff Area=1.960 ac Runoff Depth>2.93"
Flow Length=444' Tc=16.0 min CN=79 Runoff=5.32 cfs 0.479 af

Subcatchment 38S: SUB 38 Runoff Area=6.350 ac Runoff Depth>3.04"
Flow Length=746' Tc=3.4 min CN=80 Runoff=25.91 cfs 1.608 af

Subcatchment 42S: SUB 42: Not routed, drains to a pond insi Runoff Area=21.110 ac Runoff Depth>3.39"
Flow Length=900' Tc=32.3 min CN=84 Runoff=48.83 cfs 5.968 af

Subcatchment 45S: SUB 45 Runoff Area=6.840 ac Runoff Depth>3.51"
Flow Length=943' Tc=17.0 min CN=85 Runoff=21.26 cfs 1.999 af

Subcatchment 47S: SUB 47 Runoff Area=5.880 ac Runoff Depth>3.50"
Flow Length=180' Tc=23.5 min CN=85 Runoff=16.06 cfs 1.715 af

Subcatchment 55S: SUB 55 Runoff Area=27.680 ac Runoff Depth>3.29"
Flow Length=1,243' Tc=33.5 min CN=83 Runoff=61.35 cfs 7.598 af

Subcatchment 81S: SUB 81 Runoff Area=51.370 ac Runoff Depth>3.19"
Flow Length=1,755' Tc=43.4 min CN=82 Runoff=97.54 cfs 13.643 af

Subcatchment 84.1S: SUB 841 Runoff Area=1.740 ac Runoff Depth>3.20"
Flow Length=244' Tc=34.7 min CN=82 Runoff=3.69 cfs 0.463 af

Subcatchment 84.2S: SUB 84.2 Runoff Area=2.550 ac Runoff Depth>2.64"
Flow Length=344' Tc=36.2 min CN=76 Runoff=4.43 cfs 0.561 af

Reach 2R: Peak Depth=0.35' Max Vel=1.2 fps Inflow=3.69 cfs 0.463 af
n=0.040 L=693.0' S=0.0058 '/' Capacity=113.90 cfs Outflow=3.45 cfs 0.457 af

Reach 125R: Common Channel Peak Depth=1.64' Max Vel=3.0 fps Inflow=109.55 cfs 15.753 af
n=0.040 L=142.0' S=0.0070 '/' Capacity=466.14 cfs Outflow=109.30 cfs 15.738 af

Reach 127R: Peak Depth=0.85' Max Vel=3.9 fps Inflow=39.60 cfs 19.980 af
n=0.040 L=711.0' S=0.0239 '/' Capacity=2,128.96 cfs Outflow=38.99 cfs 19.782 af

Reach 423R: Peak Depth=1.98' Max Vel=3.1 fps Inflow=97.54 cfs 13.643 af
n=0.040 L=183.0' S=0.0055 '/' Capacity=486.41 cfs Outflow=97.23 cfs 13.626 af

Reach 425R: Common Channel Peak Depth=0.44' Max Vel=3.5 fps Inflow=16.06 cfs 1.715 af
n=0.040 L=148.0' S=0.0412 '/' Capacity=1,127.70 cfs Outflow=15.95 cfs 1.714 af

Reach 426R: Peak Depth=1.97' Max Vel=3.1 fps Inflow=97.23 cfs 13.626 af
n=0.040 L=183.0' S=0.0055 '/' Capacity=486.41 cfs Outflow=96.94 cfs 13.609 af

Reach 427R: Common Channel Peak Depth=1.54' Max Vel=3.2 fps Inflow=106.62 cfs 15.323 af
n=0.040 L=272.0' S=0.0088 '/' Capacity=521.77 cfs Outflow=106.25 cfs 15.297 af

Reach 611R: Common Channel Peak Depth=0.39' Max Vel=1.1 fps Inflow=4.43 cfs 0.561 af
n=0.040 L=468.0' S=0.0047 '/' Capacity=380.84 cfs Outflow=4.25 cfs 0.555 af

Reach 612R: Peak Depth=1.17' Max Vel=3.6 fps Inflow=26.47 cfs 18.098 af
n=0.040 L=408.0' S=0.0123 '/' Capacity=333.20 cfs Outflow=26.46 cfs 17.981 af

Pond 1P: Field Inlet Peak Elev=64.68' Inflow=5.32 cfs 0.479 af
12.0" x 113.0' Culvert Outflow=5.32 cfs 0.479 af

Pond 3P: Wetland Detention 36(Cul. ID 1 Peak Elev=53.51' Storage=11.282 af Inflow=161.36 cfs 23.336 af
Outflow=24.55 cfs 17.542 af

Pond 4P: Culvert 156 Peak Elev=47.70' Inflow=39.60 cfs 19.980 af
Outflow=39.60 cfs 19.980 af

Pond 5P: Outlet To York River Peak Elev=3.06' Inflow=52.96 cfs 21.868 af
60.0" x 10.0' Culvert Outflow=52.96 cfs 21.868 af

Pond 424P: Unsurveyed Culvert Peak Elev=101.31' Inflow=97.23 cfs 13.626 af
24.0" x 52.0' Culvert Outflow=97.23 cfs 13.626 af

Pond C156: CUL-156-Pond Peak Elev=0.00'
24.0" x 190.0' Culvert Primary=0.00 cfs 0.000 af

Pond C157: Two culverts: CUL-157 a and b Peak Elev=55.03' Inflow=3.69 cfs 0.463 af
Outflow=3.69 cfs 0.463 af

Pond CB240: CB_240 Unsurveyed Peak Elev=62.60' Inflow=16.06 cfs 1.715 af
24.0" x 40.0' Culvert Outflow=16.06 cfs 1.715 af

Pond CB241: CB_241 Unsurveyed Peak Elev=62.30' Inflow=16.06 cfs 1.715 af
24.0" x 40.0' Culvert Outflow=16.06 cfs 1.715 af

Pond CB242: CB_242 Unsurveyed Peak Elev=62.71' Inflow=16.06 cfs 1.715 af
24.0" x 122.0' Culvert Outflow=16.06 cfs 1.715 af

Pond CB254: CB_254 Unsurveyed Peak Elev=192.97' Inflow=97.54 cfs 13.643 af
18.0" x 115.0' Culvert Outflow=97.54 cfs 13.643 af

Pond CB256: CB_256 Unsurveyed Peak Elev=239.98' Inflow=97.54 cfs 13.643 af
18.0" x 210.0' Culvert Outflow=97.54 cfs 13.643 af

Pond CB268: CB_268 Unsurveyed Peak Elev=56.23' Inflow=4.43 cfs 0.561 af
12.0" x 100.0' Culvert Outflow=4.43 cfs 0.561 af

Pond CB269: CB_269 Unsurveyed Peak Elev=54.62' Inflow=4.43 cfs 0.561 af
12.0" x 60.0' Culvert Outflow=4.43 cfs 0.561 af

Pond CB282: CB_282-47 Unsurveyed Peak Elev=37.26' Inflow=52.96 cfs 21.868 af
24.0" x 65.0' Culvert Outflow=52.96 cfs 21.868 af

Pond CB285: CB_285-46 Unsurveyed Peak Elev=33.26' Inflow=52.96 cfs 21.868 af
24.0" x 150.0' Culvert Outflow=52.96 cfs 21.868 af

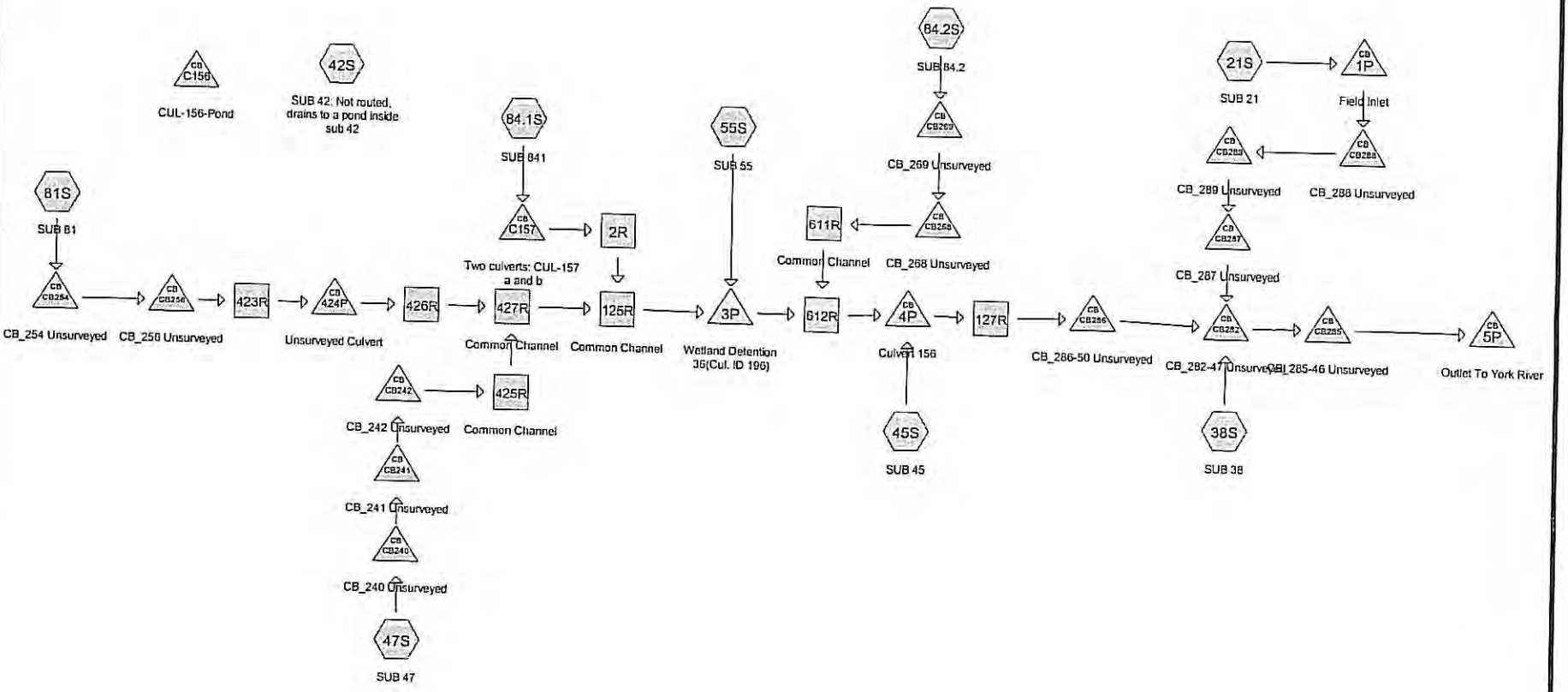
Pond CB286: CB_286-50 Unsurveyed Peak Elev=32.64' Inflow=38.99 cfs 19.782 af
24.0" x 87.0' Culvert Outflow=38.99 cfs 19.782 af

Pond CB287: CB_287 Unsurveyed Peak Elev=36.44' Inflow=5.32 cfs 0.479 af
15.0" x 180.0' Culvert Outflow=5.32 cfs 0.479 af

Pond CB288: CB_288 Unsurveyed Peak Elev=55.44' Inflow=5.32 cfs 0.479 af
15.0" x 134.0' Culvert Outflow=5.32 cfs 0.479 af

Pond CB289: CB_289 Unsurveyed Peak Elev=50.44' Inflow=5.32 cfs 0.479 af
15.0" x 238.0' Culvert Outflow=5.32 cfs 0.479 af

Total Runoff Area = 125.480 ac Runoff Volume = 34.035 af Average Runoff Depth = 3.25"



Drainage Diagram for Area (R) (50-Year)

Prepared by Edwards and Kelcey 7/5/2006

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 21S: SUB 21 Runoff Area=1.960 ac Runoff Depth>3.27"
Flow Length=444' Tc=16.0 min CN=79 Runoff=5.92 cfs 0.533 af

Subcatchment 38S: SUB 38 Runoff Area=6.350 ac Runoff Depth>3.38"
Flow Length=746' Tc=3.4 min CN=80 Runoff=28.71 cfs 1.787 af

Subcatchment 42S: SUB 42: Not routed, drains to a pond insi Runoff Area=21.110 ac Runoff Depth>3.74"
Flow Length=900' Tc=32.3 min CN=84 Runoff=53.67 cfs 6.585 af

Subcatchment 45S: SUB 45 Runoff Area=6.840 ac Runoff Depth>3.86"
Flow Length=943' Tc=17.0 min CN=85 Runoff=23.32 cfs 2.202 af

Subcatchment 47S: SUB 47 Runoff Area=5.880 ac Runoff Depth>3.86"
Flow Length=180' Tc=23.5 min CN=85 Runoff=17.61 cfs 1.889 af

Subcatchment 55S: SUB 55 Runoff Area=27.680 ac Runoff Depth>3.64"
Flow Length=1,243' Tc=33.5 min CN=83 Runoff=67.57 cfs 8.398 af

Subcatchment 81S: SUB 81 Runoff Area=51.370 ac Runoff Depth>3.53"
Flow Length=1,755' Tc=43.4 min CN=82 Runoff=107.69 cfs 15.110 af

Subcatchment 84.1S: SUB 841 Runoff Area=1.740 ac Runoff Depth>3.54"
Flow Length=244' Tc=34.7 min CN=82 Runoff=4.08 cfs 0.513 af

Subcatchment 84.2S: SUB 84.2 Runoff Area=2.550 ac Runoff Depth>2.96"
Flow Length=344' Tc=36.2 min CN=76 Runoff=4.96 cfs 0.629 af

Reach 2R: Peak Depth=0.37' Max Vel=1.2 fps Inflow=4.08 cfs 0.513 af
n=0.040 L=693.0' S=0.0058 '/' Capacity=113.90 cfs Outflow=3.82 cfs 0.506 af

Reach 125R: Common Channel Peak Depth=1.71' Max Vel=3.1 fps Inflow=120.96 cfs 17.440 af
n=0.040 L=142.0' S=0.0070 '/' Capacity=466.14 cfs Outflow=120.69 cfs 17.424 af

Reach 127R: Peak Depth=0.88' Max Vel=4.0 fps Inflow=41.79 cfs 21.093 af
n=0.040 L=711.0' S=0.0239 '/' Capacity=2,128.96 cfs Outflow=41.36 cfs 20.888 af

Reach 423R: Peak Depth=2.07' Max Vel=3.2 fps Inflow=107.69 cfs 15.110 af
n=0.040 L=183.0' S=0.0055 '/' Capacity=486.41 cfs Outflow=107.34 cfs 15.092 af

Reach 425R: Common Channel Peak Depth=0.47' Max Vel=3.5 fps Inflow=17.61 cfs 1.889 af
n=0.040 L=148.0' S=0.0412 '/' Capacity=1,127.70 cfs Outflow=17.50 cfs 1.888 af

Reach 426R: Peak Depth=2.07' Max Vel=3.2 fps Inflow=107.34 cfs 15.092 af
n=0.040 L=183.0' S=0.0055 '/' Capacity=486.41 cfs Outflow=107.04 cfs 15.074 af

Reach 427R: Common Channel Peak Depth=1.61' Max Vel=3.3 fps Inflow=117.68 cfs 16.961 af
n=0.040 L=272.0' S=0.0088 '/' Capacity=521.77 cfs Outflow=117.28 cfs 16.934 af

Reach 611R: Common Channel Peak Depth=0.42' Max Vel=1.1 fps Inflow=4.96 cfs 0.629 af
n=0.040 L=468.0' S=0.0047 '/' Capacity=380.84 cfs Outflow=4.76 cfs 0.623 af

Reach 612R: Peak Depth=1.20' Max Vel=3.6 fps Inflow=27.49 cfs 19.013 af
n=0.040 L=408.0' S=0.0123 '/' Capacity=333.20 cfs Outflow=27.48 cfs 18.891 af

Pond 1P: Field Inlet Peak Elev=65.15' Inflow=5.92 cfs 0.533 af
12.0" x 113.0' Culvert Outflow=5.92 cfs 0.533 af

Pond 3P: Wetland Detention 36(Cul. ID 1 Peak Elev=53.78' Storage=12.870 af Inflow=178.31 cfs 25.822 af
Outflow=25.28 cfs 18.390 af

Pond 4P: Culvert 156 Peak Elev=48.28' Inflow=41.79 cfs 21.093 af
Outflow=41.79 cfs 21.093 af

Pond 5P: Outlet To York River Peak Elev=3.23' Inflow=58.00 cfs 23.208 af
60.0" x 10.0' Culvert Outflow=58.00 cfs 23.208 af

Pond 424P: Unsurveyed Culvert Peak Elev=110.36' Inflow=107.34 cfs 15.092 af
24.0" x 52.0' Culvert Outflow=107.34 cfs 15.092 af

Pond C156: CUL-156-Pond Peak Elev=0.00'
24.0" x 190.0' Culvert Primary=0.00 cfs 0.000 af

Pond C157: Two culverts: CUL-157 a and b Peak Elev=55.17' Inflow=4.08 cfs 0.513 af
Outflow=4.08 cfs 0.513 af

Pond CB240: CB_240 Unsurveyed Peak Elev=62.86' Inflow=17.61 cfs 1.889 af
24.0" x 40.0' Culvert Outflow=17.61 cfs 1.889 af

Pond CB241: CB_241 Unsurveyed Peak Elev=62.56' Inflow=17.61 cfs 1.889 af
24.0" x 40.0' Culvert Outflow=17.61 cfs 1.889 af

Pond CB242: CB_242 Unsurveyed Peak Elev=63.25' Inflow=17.61 cfs 1.889 af
24.0" x 122.0' Culvert Outflow=17.61 cfs 1.889 af

Pond CB254: CB_254 Unsurveyed Peak Elev=221.72' Inflow=107.69 cfs 15.110 af
18.0" x 115.0' Culvert Outflow=107.69 cfs 15.110 af

Pond CB256: CB_256 Unsurveyed Peak Elev=279.02' Inflow=107.69 cfs 15.110 af
18.0" x 210.0' Culvert Outflow=107.69 cfs 15.110 af

Pond CB268: CB_268 Unsurveyed Peak Elev=57.78' Inflow=4.96 cfs 0.629 af
12.0" x 100.0' Culvert Outflow=4.96 cfs 0.629 af

Pond CB269: CB_269 Unsurveyed Peak Elev=55.61' Inflow=4.96 cfs 0.629 af
12.0" x 60.0' Culvert Outflow=4.96 cfs 0.629 af

Pond CB282: CB_282-47 Unsurveyed Peak Elev=39.66' Inflow=58.00 cfs 23.208 af
24.0" x 65.0' Culvert Outflow=58.00 cfs 23.208 af

Pond CB285: CB_285-46 Unsurveyed Peak Elev=35.66' Inflow=58.00 cfs 23.208 af
24.0" x 150.0' Culvert Outflow=58.00 cfs 23.208 af

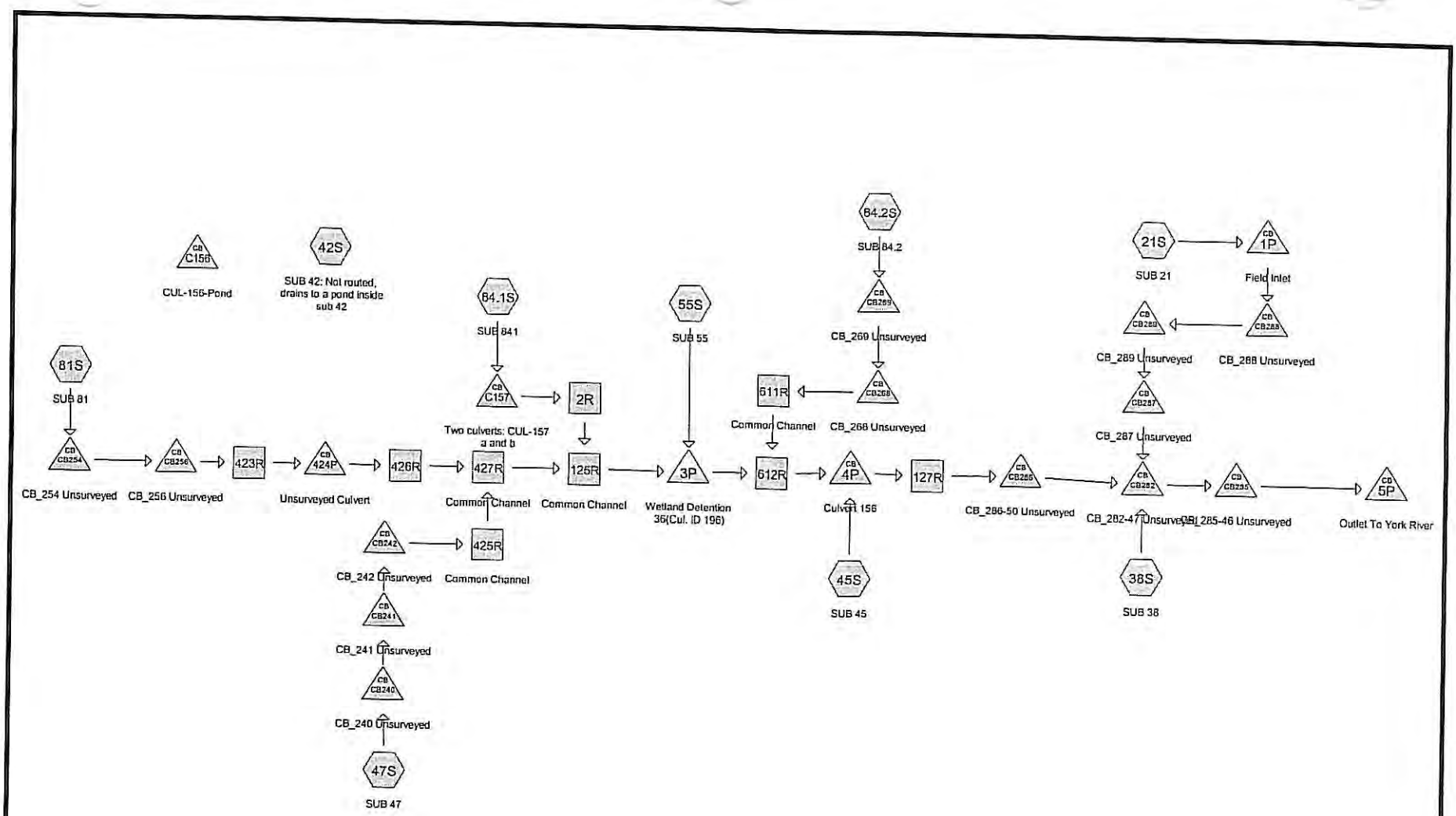
Pond CB286: CB_286-50 Unsurveyed Peak Elev=33.43' Inflow=41.36 cfs 20.888 af
24.0" x 87.0' Culvert Outflow=41.36 cfs 20.888 af

Pond CB287: CB_287 Unsurveyed Peak Elev=36.63' Inflow=5.92 cfs 0.533 af
15.0" x 180.0' Culvert Outflow=5.92 cfs 0.533 af

Pond CB288: CB_288 Unsurveyed Peak Elev=55.63' Inflow=5.92 cfs 0.533 af
15.0" x 134.0' Culvert Outflow=5.92 cfs 0.533 af

Pond CB289: CB_289 Unsurveyed Peak Elev=50.63' Inflow=5.92 cfs 0.533 af
15.0" x 238.0' Culvert Outflow=5.92 cfs 0.533 af

Total Runoff Area = 125.480 ac Runoff Volume = 37.647 af Average Runoff Depth = 3.60"



Drainage Diagram for Area (R) (100-Year)

Prepared by Edwards and Kelcey 7/5/2006

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 21S: SUB 21 Runoff Area=1.960 ac Runoff Depth>3.95"
Flow Length=444' Tc=16.0 min CN=79 Runoff=7.11 cfs 0.644 af

Subcatchment 38S: SUB 38 Runoff Area=6.350 ac Runoff Depth>4.07"
Flow Length=746' Tc=3.4 min CN=80 Runoff=34.33 cfs 2.151 af

Subcatchment 42S: SUB 42: Not routed, drains to a pond insi Runoff Area=21.110 ac Runoff Depth>4.45"
Flow Length=900' Tc=32.3 min CN=84 Runoff=63.37 cfs 7.835 af

Subcatchment 45S: SUB 45 Runoff Area=6.840 ac Runoff Depth>4.58"
Flow Length=943' Tc=17.0 min CN=85 Runoff=27.43 cfs 2.612 af

Subcatchment 47S: SUB 47 Runoff Area=5.880 ac Runoff Depth>4.57"
Flow Length=180' Tc=23.5 min CN=85 Runoff=20.72 cfs 2.241 af

Subcatchment 55S: SUB 55 Runoff Area=27.680 ac Runoff Depth>4.34"
Flow Length=1,243' Tc=33.5 min CN=83 Runoff=80.07 cfs 10.022 af

Subcatchment 81S: SUB 81 Runoff Area=51.370 ac Runoff Depth>4.23"
Flow Length=1,755' Tc=43.4 min CN=82 Runoff=128.07 cfs 18.088 af

Subcatchment 84.1S: SUB 841 Runoff Area=1.740 ac Runoff Depth>4.24"
Flow Length=244' Tc=34.7 min CN=82 Runoff=4.85 cfs 0.614 af

Subcatchment 84.2S: SUB 84.2 Runoff Area=2.550 ac Runoff Depth>3.61"
Flow Length=344' Tc=36.2 min CN=76 Runoff=6.04 cfs 0.768 af

Reach 2R: Peak Depth=0.41' Max Vel=1.3 fps Inflow=4.85 cfs 0.614 af
n=0.040 L=693.0' S=0.0058 '/' Capacity=113.90 cfs Outflow=4.57 cfs 0.607 af

Reach 125R: Common Channel Peak Depth=1.84' Max Vel=3.2 fps Inflow=143.89 cfs 20.863 af
n=0.040 L=142.0' S=0.0070 '/' Capacity=466.14 cfs Outflow=143.60 cfs 20.845 af

Reach 127R: Peak Depth=1.19' Max Vel=4.7 fps Inflow=81.10 cfs 24.876 af
n=0.040 L=711.0' S=0.0239 '/' Capacity=2,128.96 cfs Outflow=76.83 cfs 24.677 af

Reach 423R: Peak Depth=2.24' Max Vel=3.3 fps Inflow=128.07 cfs 18.088 af
n=0.040 L=183.0' S=0.0055 '/' Capacity=486.41 cfs Outflow=127.68 cfs 18.068 af

Reach 425R: Common Channel Peak Depth=0.50' Max Vel=3.7 fps Inflow=20.72 cfs 2.241 af
n=0.040 L=148.0' S=0.0412 '/' Capacity=1,127.70 cfs Outflow=20.59 cfs 2.239 af

Reach 426R: Peak Depth=2.23' Max Vel=3.3 fps Inflow=127.68 cfs 18.068 af
n=0.040 L=183.0' S=0.0055 '/' Capacity=486.41 cfs Outflow=127.33 cfs 18.048 af

Reach 427R: Common Channel Peak Depth=1.73' Max Vel=3.5 fps Inflow=139.92 cfs 20.287 af
n=0.040 L=272.0' S=0.0088 '/' Capacity=521.77 cfs Outflow=139.46 cfs 20.256 af

Reach 611R: Common Channel Peak Depth=0.46' Max Vel=1.2 fps Inflow=6.04 cfs 0.768 af
n=0.040 L=468.0' S=0.0047 '/' Capacity=380.84 cfs Outflow=5.82 cfs 0.761 af

Reach 612R: Peak Depth=2.11' Max Vel=4.9 fps Inflow=88.58 cfs 22.374 af
n=0.040 L=408.0' S=0.0123 '/' Capacity=333.20 cfs Outflow=78.12 cfs 22.264 af

Pond 1P: Field Inlet Peak Elev=66.23' Inflow=7.11 cfs 0.644 af
12.0" x 113.0' Culvert Outflow=7.11 cfs 0.644 af

Pond 3P: Wetland Detention 36(Cul. ID 1 Peak Elev=54.61' Storage=14.205 af Inflow=212.42 cfs 30.867 af
Outflow=86.26 cfs 21.614 af

Pond 4P: Culvert 156 Peak Elev=68.59' Inflow=81.10 cfs 24.876 af
Outflow=81.10 cfs 24.876 af

Pond 5P: Outlet To York River Peak Elev=3.89' Inflow=79.92 cfs 27.473 af
60.0" x 10.0' Culvert Outflow=79.92 cfs 27.473 af

Pond 424P: Unsurveyed Culvert Peak Elev=131.25' Inflow=127.68 cfs 18.068 af
24.0" x 52.0' Culvert Outflow=127.68 cfs 18.068 af

Pond C156: CUL-156-Pond Peak Elev=0.00'
24.0" x 190.0' Culvert Primary=0.00 cfs 0.000 af

Pond C157: Two culverts: CUL-157 a and b Peak Elev=55.50' Inflow=4.85 cfs 0.614 af
Outflow=4.85 cfs 0.614 af

Pond CB240: CB_240 Unsurveyed Peak Elev=63.46' Inflow=20.72 cfs 2.241 af
24.0" x 40.0' Culvert Outflow=20.72 cfs 2.241 af

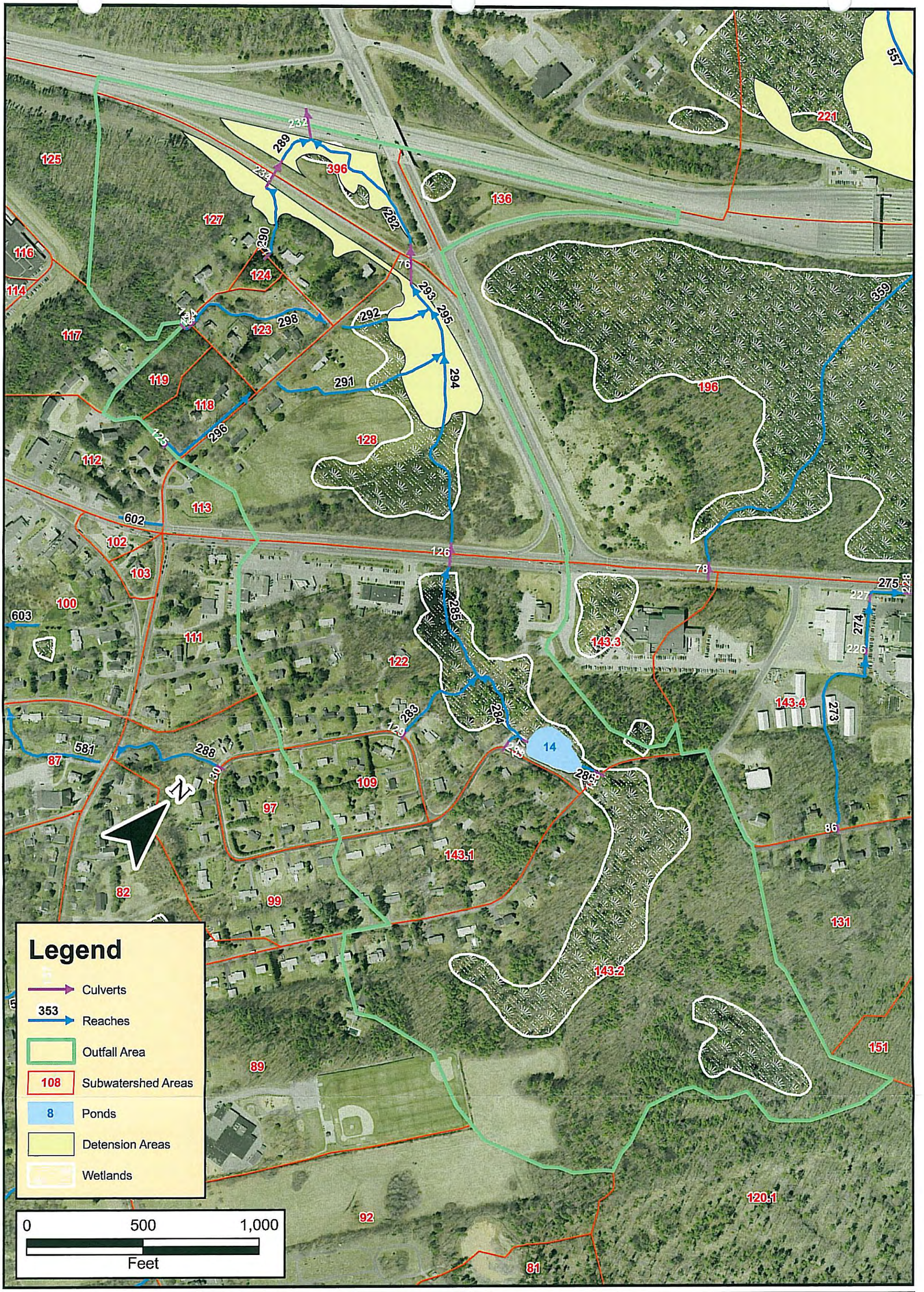
Pond CB241: CB_241 Unsurveyed Peak Elev=63.16' Inflow=20.72 cfs 2.241 af
24.0" x 40.0' Culvert Outflow=20.72 cfs 2.241 af

Pond CB242: CB_242 Unsurveyed Peak Elev=64.51' Inflow=20.72 cfs 2.241 af
24.0" x 122.0' Culvert Outflow=20.72 cfs 2.241 af

Pond CB254: CB_254 Unsurveyed Peak Elev=288.09' Inflow=128.07 cfs 18.088 af
18.0" x 115.0' Culvert Outflow=128.07 cfs 18.088 af

Pond CB256: CB_256 Unsurveyed Peak Elev=369.17' Inflow=128.07 cfs 18.088 af
18.0" x 210.0' Culvert Outflow=128.07 cfs 18.088 af

Pond CB268: CB_268 Unsurveyed Peak Elev=61.39' Inflow=6.04 cfs 0.768 af
12.0" x 100.0' Culvert Outflow=6.04 cfs 0.768 af



DRAWN BY: **CJK**	DATE: **MAY 31, 2006**
CHECKED BY: **SJB**	PROJECT: **060057018**

Edwards AND Kelcey
ENGINEERS
ARCHITECTS
PLANNERS
CONSTRUCTORS

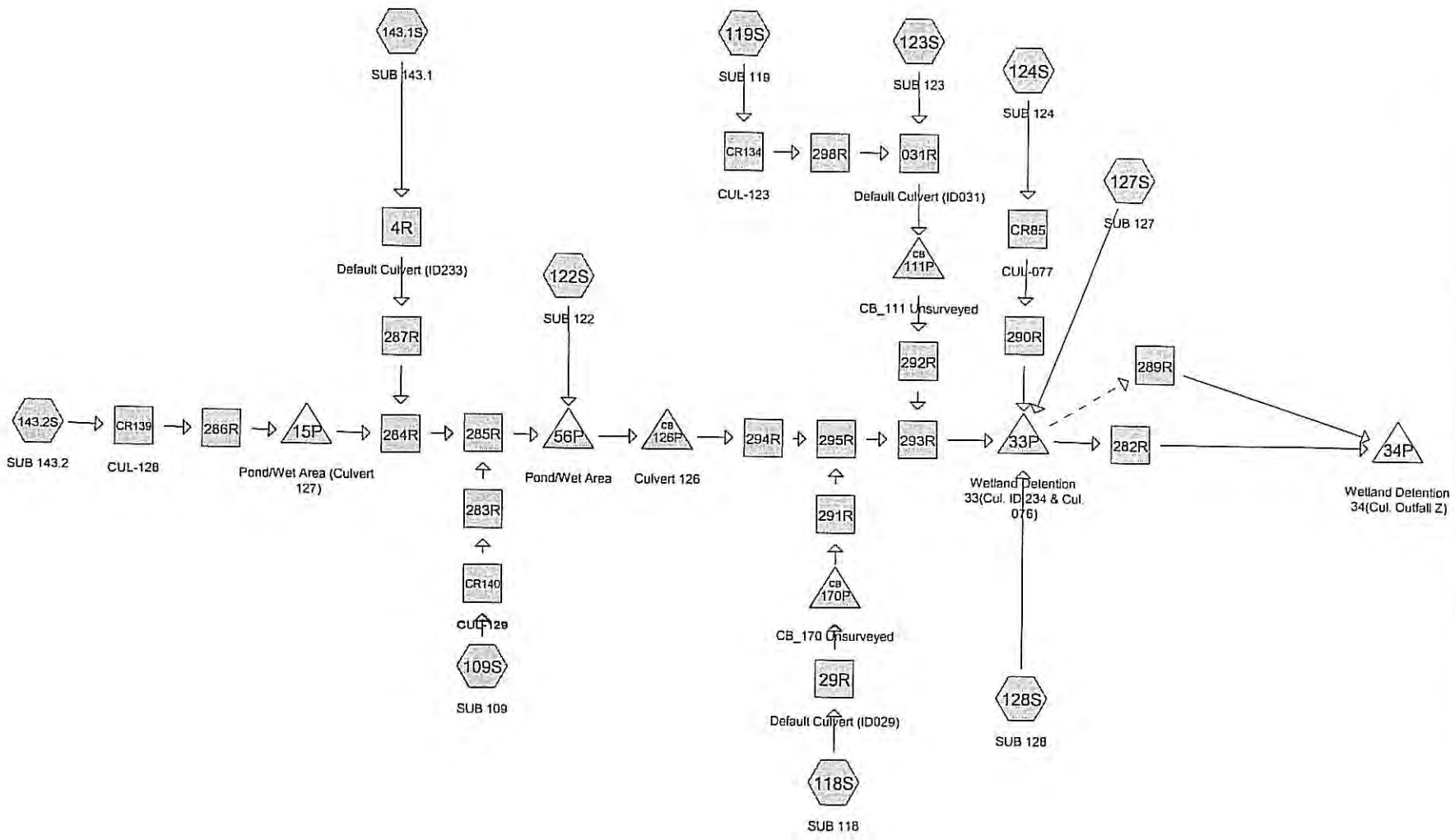
222 St. John Street Suite 314
Portland, Maine 04102
Tel. (207) 828-1272 Fax (207) 774-6907
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OUTFALL "Z"

Data Sources:
Town of York
Maine Office of GIS

YORK WATERSHED MANAGEMENT
TOWN OF YORK, MAINE

T:\Projects\938\Maps\Outfall_O_11x17.mxd


143.1S
SUB 143.1
119S
SUB 119
123S
SUB 123
124S
SUB 124
CR134
298R
031R
CUL-123
Default Culvert (ID031)
CR85
CUL-077
127S
SUB 127
4R
Default Culvert (ID233)
CB 111P
CB_111 Unsurveyed
287R
122S
SUB 122
292R
290R
289R
143.2S
CR139
286R
15P
284R
285R
56P
CB 126P
294R
295R
293R
33P
282R
34P
SUB 143.2
CUL-128
Pond/Wet Area (Culvert 127)
Pond/Wet Area
Culvert 126
Wetland Detention 33(Cul. ID 234 & Cul. 076)
Wetland Detention 34(Cul. Outfall Z)
283R
291R
CR140
CB 170P
CB_170 Unsurveyed
109S
SUB 109
29R
Default Culvert (ID029)
128S
SUB 128
118S
SUB 118
Subcat
Reach
Pond
Link
Drainage Diagram for Area (Z) (25-Year)
Prepared by Edwards and Kelcey 7/5/2006
HydroCAD® 7.10 s/n 000749 © 2005 HydroCAD Software Solutions LLC

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 109S: SUB 109 Runoff Area=4.420 ac Runoff Depth>0.99"
Flow Length=545' Tc=19.5 min CN=54 Runoff=3.22 cfs 0.365 af

Subcatchment 118S: SUB 118 Runoff Area=2.520 ac Runoff Depth>2.52"
Flow Length=535' Tc=72.0 min CN=75 Runoff=2.87 cfs 0.529 af

Subcatchment 119S: SUB 119 Runoff Area=1.680 ac Runoff Depth>2.12"
Flow Length=518' Tc=46.1 min CN=70 Runoff=2.07 cfs 0.297 af

Subcatchment 122S: SUB 122 Runoff Area=23.520 ac Runoff Depth>1.96"
Flow Length=750' Tc=50.1 min CN=68 Runoff=25.44 cfs 3.842 af

Subcatchment 123S: SUB 123 Runoff Area=3.910 ac Runoff Depth>3.01"
Flow Length=513' Tc=31.8 min CN=80 Runoff=8.17 cfs 0.981 af

Subcatchment 124S: SUB 124 Runoff Area=0.520 ac Runoff Depth>2.56"
Flow Length=237' Tc=26.0 min CN=75 Runoff=1.02 cfs 0.111 af

Subcatchment 127S: SUB 127 Runoff Area=17.880 ac Runoff Depth>2.55"
Flow Length=942' Tc=38.4 min CN=75 Runoff=29.14 cfs 3.803 af

Subcatchment 128S: SUB 128 Runoff Area=28.930 ac Runoff Depth>2.81"
Flow Length=1,638' Tc=44.5 min CN=78 Runoff=48.28 cfs 6.782 af

Subcatchment 143.1S: SUB 143.1 Runoff Area=9.470 ac Runoff Depth>1.18"
Flow Length=567' Tc=24.8 min CN=57 Runoff=7.91 cfs 0.932 af

Subcatchment 143.2S: SUB 143.2 Runoff Area=52.010 ac Runoff Depth>2.30"
Flow Length=1,595' Tc=37.9 min CN=72 Runoff=76.66 cfs 9.951 af

Reach 4R: Default Culvert (ID233) Peak Depth=1.00' Max Vel=4.0 fps Inflow=7.91 cfs 0.932 af
D=12.0" n=0.013 L=50.0' S=0.0060 '/' Capacity=2.76 cfs Outflow=2.76 cfs 0.932 af

Reach 29R: Default Culvert (ID029) Peak Depth=0.50' Max Vel=6.2 fps Inflow=2.87 cfs 0.529 af
D=15.0" n=0.013 L=116.0' S=0.0172 '/' Capacity=8.48 cfs Outflow=2.87 cfs 0.529 af

Reach 031R: Default Culvert (ID031) Peak Depth=1.00' Max Vel=5.7 fps Inflow=9.08 cfs 1.274 af
D=12.0" n=0.013 L=40.0' S=0.0125 '/' Capacity=3.98 cfs Outflow=4.46 cfs 1.274 af

Reach 282R: Peak Depth=0.96' Max Vel=2.2 fps Inflow=25.41 cfs 7.468 af
n=0.035 L=688.0' S=0.0044 '/' Capacity=251.92 cfs Outflow=25.30 cfs 7.386 af

Reach 283R: Peak Depth=0.16' Max Vel=2.0 fps Inflow=2.14 cfs 0.365 af
n=0.035 L=435.0' S=0.0290 '/' Capacity=568.10 cfs Outflow=2.14 cfs 0.362 af

Reach 284R: Peak Depth=0.29' Max Vel=1.9 fps Inflow=4.00 cfs 2.042 af
n=0.035 L=382.0' S=0.0128 '/' Capacity=377.28 cfs Outflow=4.00 cfs 2.008 af

Reach 285R: Peak Depth=0.35' Max Vel=1.9 fps Inflow=4.90 cfs 2.370 af
n=0.035 L=200.0' S=0.0100 '/' Capacity=333.80 cfs Outflow=4.90 cfs 2.351 af

Reach 286R: Peak Depth=0.16' Max Vel=3.7 fps Inflow=4.37 cfs 3.237 af
n=0.030 L=55.0' S=0.0860 '/' Capacity=2,171.94 cfs Outflow=4.34 cfs 3.234 af

Reach 287R: Peak Depth=0.20' Max Vel=2.0 fps Inflow=2.76 cfs 0.932 af
n=0.035 L=48.0' S=0.0233 '/' Capacity=509.89 cfs Outflow=2.76 cfs 0.931 af

Reach 289R: Peak Depth=0.76' Max Vel=3.3 fps Inflow=27.51 cfs 8.258 af
n=0.035 L=168.0' S=0.0119 '/' Capacity=416.25 cfs Outflow=27.49 cfs 8.242 af

Reach 290R: Peak Depth=0.09' Max Vel=1.3 fps Inflow=1.02 cfs 0.111 af
n=0.035 L=306.0' S=0.0248 '/' Capacity=600.44 cfs Outflow=0.99 cfs 0.111 af

Reach 291R: Peak Depth=0.18' Max Vel=1.8 fps Inflow=2.87 cfs 0.529 af
n=0.035 L=793.0' S=0.0189 '/' Capacity=524.69 cfs Outflow=2.83 cfs 0.522 af

Reach 292R: Peak Depth=0.26' Max Vel=1.8 fps Inflow=4.46 cfs 1.274 af
n=0.035 L=396.0' S=0.0152 '/' Capacity=781.41 cfs Outflow=4.04 cfs 1.268 af

Reach 293R: Peak Depth=0.66' Max Vel=2.4 fps Inflow=16.81 cfs 5.387 af
n=0.035 L=130.0' S=0.0077 '/' Capacity=334.60 cfs Outflow=16.80 cfs 5.370 af

Reach 294R: Peak Depth=0.53' Max Vel=2.1 fps Inflow=11.47 cfs 3.737 af
n=0.035 L=874.0' S=0.0076 '/' Capacity=332.27 cfs Outflow=11.27 cfs 3.627 af

Reach 295R: Peak Depth=0.64' Max Vel=1.9 fps Inflow=12.85 cfs 4.149 af
n=0.035 L=206.0' S=0.0049 '/' Capacity=265.80 cfs Outflow=12.82 cfs 4.118 af

Reach 298R: Peak Depth=0.15' Max Vel=1.6 fps Inflow=2.07 cfs 0.297 af
n=0.035 L=652.0' S=0.0184 '/' Capacity=517.56 cfs Outflow=2.02 cfs 0.294 af

Reach CR134: CUL-123 Peak Depth=0.63' Max Vel=4.0 fps Inflow=2.07 cfs 0.297 af
D=12.0" n=0.024 L=50.0' S=0.0224 '/' Capacity=2.89 cfs Outflow=2.07 cfs 0.297 af

Reach CR139: CUL-128 Peak Depth=1.25' Max Vel=3.9 fps Inflow=76.66 cfs 9.951 af
D=15.0" n=0.024 L=40.0' S=0.0142 '/' Capacity=4.18 cfs Outflow=4.37 cfs 3.237 af

Reach CR140: CUL-129 Peak Depth=1.25' Max Vel=2.0 fps Inflow=3.22 cfs 0.365 af
D=15.0" n=0.024 L=40.0' S=0.0038 '/' Capacity=2.14 cfs Outflow=2.14 cfs 0.365 af

Reach CR85: CUL-077 Peak Depth=0.55' Max Vel=2.3 fps Inflow=1.02 cfs 0.111 af
D=12.0" n=0.024 L=30.0' S=0.0083 '/' Capacity=1.76 cfs Outflow=1.02 cfs 0.111 af

Pond 15P: Pond/Wet Area (Culvert 127) Peak Elev=66.96' Storage=2.122 af Inflow=4.34 cfs 3.234 af
12.0" x 25.0' Culvert Outflow=3.20 cfs 1.110 af

Pond 33P: Wetland Detention 33(Cul. ID 23 Peak Elev=44.27' Storage=2.605 af Inflow=82.68 cfs 16.065 af
Primary=25.41 cfs 7.468 af Secondary=27.51 cfs 8.258 af Outflow=52.91 cfs 15.725 af

Pond 34P: Wetland Detention 34(Cul. Outfa Peak Elev=40.26' Storage=2.391 af Inflow=52.59 cfs 15.628 af
60.0" x 75.0' Culvert Outflow=42.54 cfs 14.877 af

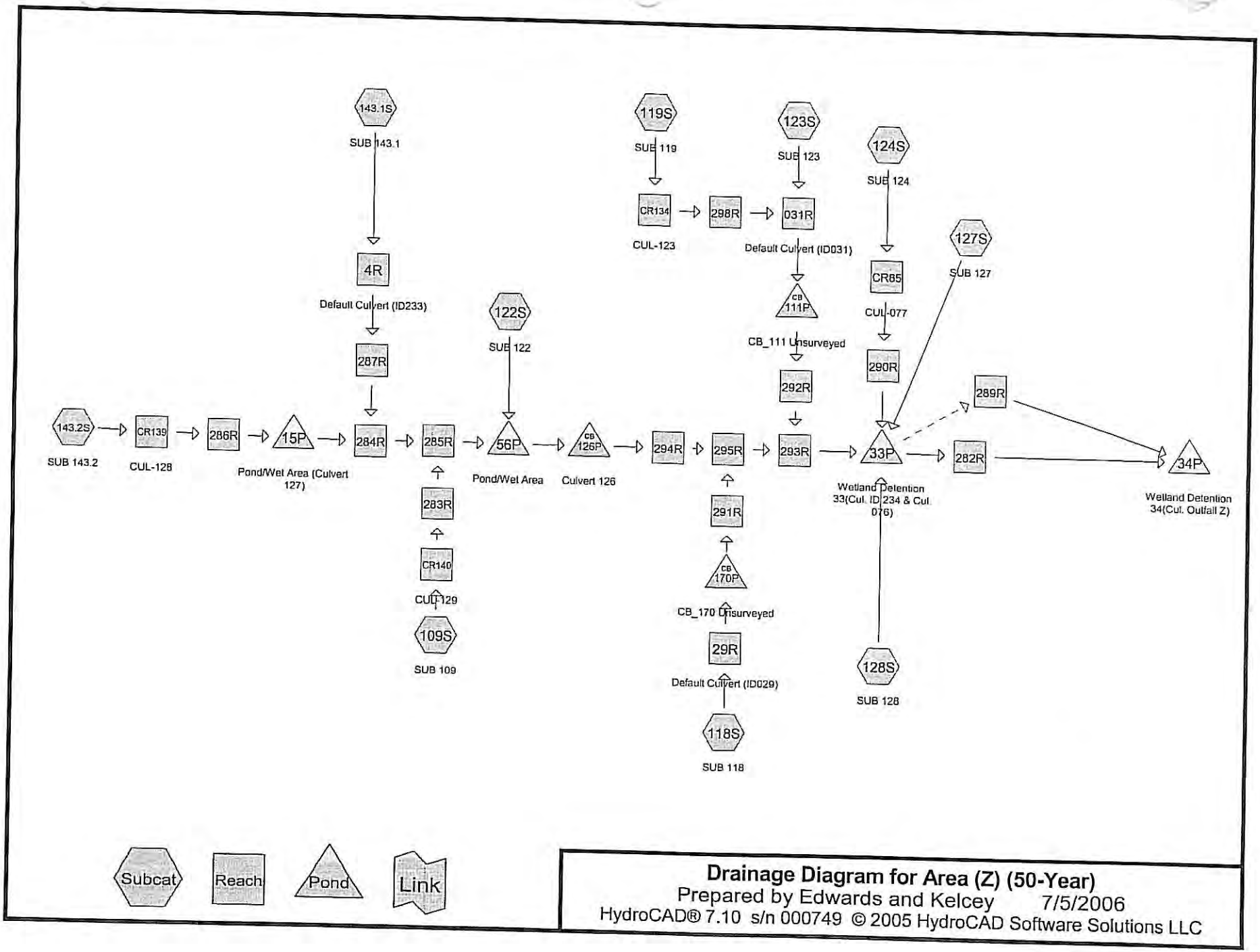
Pond 56P: Pond/Wet Area Peak Elev=59.24' Storage=2.569 af Inflow=30.34 cfs 6.192 af
Outflow=11.47 cfs 3.737 af

Pond 111P: CB_111 Unsurveyed Peak Elev=51.47' Inflow=4.46 cfs 1.274 af
12.0" x 55.0' Culvert Outflow=4.46 cfs 1.274 af

Pond 126P: Culvert 126 Peak Elev=57.19' Inflow=11.47 cfs 3.737 af
18.0" x 100.0' Culvert Outflow=11.47 cfs 3.737 af

Pond 170P: CB_170 Unsurveyed Peak Elev=60.76' Inflow=2.87 cfs 0.529 af
15.0" x 36.0' Culvert Outflow=2.87 cfs 0.529 af

Total Runoff Area = 144.860 ac Runoff Volume = 27.593 af Average Runoff Depth = 2.29"



Drainage Diagram for Area (Z) (50-Year)

Prepared by Edwards and Kelcey 7/5/2006

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 109S: SUB 109 Runoff Area=4.420 ac Runoff Depth>1.19"
Flow Length=545' Tc=19.5 min CN=54 Runoff=3.99 cfs 0.437 af

Subcatchment 118S: SUB 118 Runoff Area=2.520 ac Runoff Depth>2.83"
Flow Length=535' Tc=72.0 min CN=75 Runoff=3.22 cfs 0.594 af

Subcatchment 119S: SUB 119 Runoff Area=1.680 ac Runoff Depth>2.41"
Flow Length=518' Tc=46.1 min CN=70 Runoff=2.36 cfs 0.338 af

Subcatchment 122S: SUB 122 Runoff Area=23.520 ac Runoff Depth>2.24"
Flow Length=750' Tc=50.1 min CN=68 Runoff=29.14 cfs 4.384 af

Subcatchment 123S: SUB 123 Runoff Area=3.910 ac Runoff Depth>3.35"
Flow Length=513' Tc=31.8 min CN=80 Runoff=9.06 cfs 1.090 af

Subcatchment 124S: SUB 124 Runoff Area=0.520 ac Runoff Depth>2.88"
Flow Length=237' Tc=26.0 min CN=75 Runoff=1.14 cfs 0.125 af

Subcatchment 127S: SUB 127 Runoff Area=17.880 ac Runoff Depth>2.87"
Flow Length=942' Tc=38.4 min CN=75 Runoff=32.70 cfs 4.270 af

Subcatchment 128S: SUB 128 Runoff Area=28.930 ac Runoff Depth>3.14"
Flow Length=1,638' Tc=44.5 min CN=78 Runoff=53.79 cfs 7.569 af

Subcatchment 143.1S: SUB 143.1 Runoff Area=9.470 ac Runoff Depth>1.39"
Flow Length=567' Tc=24.8 min CN=57 Runoff=9.55 cfs 1.100 af

Subcatchment 143.2S: SUB 143.2 Runoff Area=52.010 ac Runoff Depth>2.59"
Flow Length=1,595' Tc=37.9 min CN=72 Runoff=86.73 cfs 11.247 af

Reach 4R: Default Culvert (ID233) Peak Depth=1.00' Max Vel=3.9 fps Inflow=9.55 cfs 1.100 af
D=12.0" n=0.013 L=50.0' S=0.0060 '/' Capacity=2.76 cfs Outflow=2.76 cfs 1.100 af

Reach 29R: Default Culvert (ID029) Peak Depth=0.53' Max Vel=6.4 fps Inflow=3.22 cfs 0.594 af
D=15.0" n=0.013 L=116.0' S=0.0172 '/' Capacity=8.48 cfs Outflow=3.22 cfs 0.594 af

Reach 031R: Default Culvert (ID031) Peak Depth=1.00' Max Vel=5.8 fps Inflow=10.16 cfs 1.424 af
D=12.0" n=0.013 L=40.0' S=0.0125 '/' Capacity=3.98 cfs Outflow=4.15 cfs 1.424 af

Reach 282R: Peak Depth=1.00' Max Vel=2.3 fps Inflow=27.82 cfs 8.575 af
n=0.035 L=688.0' S=0.0044 '/' Capacity=251.92 cfs Outflow=27.72 cfs 8.489 af

Reach 283R: Peak Depth=0.16' Max Vel=2.0 fps Inflow=2.14 cfs 0.436 af
n=0.035 L=435.0' S=0.0290 '/' Capacity=568.10 cfs Outflow=2.14 cfs 0.433 af

Reach 284R: Peak Depth=0.33' Max Vel=2.0 fps Inflow=4.83 cfs 2.276 af
n=0.035 L=382.0' S=0.0128 '/' Capacity=377.28 cfs Outflow=4.81 cfs 2.242 af

Reach 285R: Peak Depth=0.37' Max Vel=1.9 fps Inflow=5.22 cfs 2.676 af
n=0.035 L=200.0' S=0.0100 '/' Capacity=333.80 cfs Outflow=5.21 cfs 2.656 af

Reach 286R: Peak Depth=0.16' Max Vel=3.7 fps Inflow=4.37 cfs 3.323 af
n=0.030 L=55.0' S=0.0860 '/' Capacity=2,171.94 cfs Outflow=4.35 cfs 3.320 af

Reach 287R: Peak Depth=0.20' Max Vel=2.1 fps Inflow=2.76 cfs 1.100 af
n=0.035 L=48.0' S=0.0233 '/' Capacity=509.89 cfs Outflow=2.77 cfs 1.099 af

Reach 289R: Peak Depth=0.80' Max Vel=3.3 fps Inflow=30.07 cfs 9.449 af
n=0.035 L=168.0' S=0.0119 '/' Capacity=416.25 cfs Outflow=30.05 cfs 9.432 af

Reach 290R: Peak Depth=0.10' Max Vel=1.4 fps Inflow=1.14 cfs 0.125 af
n=0.035 L=306.0' S=0.0248 '/' Capacity=600.44 cfs Outflow=1.12 cfs 0.124 af

Reach 291R: Peak Depth=0.20' Max Vel=1.9 fps Inflow=3.22 cfs 0.594 af
n=0.035 L=793.0' S=0.0189 '/' Capacity=524.69 cfs Outflow=3.18 cfs 0.587 af

Reach 292R: Peak Depth=0.26' Max Vel=1.8 fps Inflow=4.15 cfs 1.424 af
n=0.035 L=396.0' S=0.0152 '/' Capacity=781.41 cfs Outflow=3.98 cfs 1.417 af

Reach 293R: Peak Depth=0.77' Max Vel=2.6 fps Inflow=22.45 cfs 6.443 af
n=0.035 L=130.0' S=0.0077 '/' Capacity=334.60 cfs Outflow=22.41 cfs 6.426 af

Reach 294R: Peak Depth=0.65' Max Vel=2.4 fps Inflow=16.67 cfs 4.579 af
n=0.035 L=874.0' S=0.0076 '/' Capacity=332.27 cfs Outflow=16.17 cfs 4.470 af

Reach 295R: Peak Depth=0.79' Max Vel=2.1 fps Inflow=18.53 cfs 5.057 af
n=0.035 L=206.0' S=0.0049 '/' Capacity=265.80 cfs Outflow=18.46 cfs 5.026 af

Reach 298R: Peak Depth=0.16' Max Vel=1.6 fps Inflow=2.36 cfs 0.337 af
n=0.035 L=652.0' S=0.0184 '/' Capacity=517.56 cfs Outflow=2.31 cfs 0.333 af

Reach CR134: CUL-123 Peak Depth=0.69' Max Vel=4.1 fps Inflow=2.36 cfs 0.338 af
D=12.0" n=0.024 L=50.0' S=0.0224 '/' Capacity=2.89 cfs Outflow=2.36 cfs 0.337 af

Reach CR139: CUL-128 Peak Depth=1.25' Max Vel=3.9 fps Inflow=86.73 cfs 11.247 af
D=15.0" n=0.024 L=40.0' S=0.0142 '/' Capacity=4.18 cfs Outflow=4.37 cfs 3.323 af

Reach CR140: CUL-129 Peak Depth=1.25' Max Vel=1.9 fps Inflow=3.99 cfs 0.437 af
D=15.0" n=0.024 L=40.0' S=0.0038 '/' Capacity=2.14 cfs Outflow=2.14 cfs 0.436 af

Reach CR85: CUL-077 Peak Depth=0.59' Max Vel=2.4 fps Inflow=1.14 cfs 0.125 af
D=12.0" n=0.024 L=30.0' S=0.0083 '/' Capacity=1.76 cfs Outflow=1.14 cfs 0.125 af

Pond 15P: Pond/Wet Area (Culvert 127) Peak Elev=66.99' Storage=2.141 af Inflow=4.35 cfs 3.320 af
12.0" x 25.0' Culvert Outflow=3.25 cfs 1.177 af

Pond 33P: Wetland Detention 33(Cul. ID 23 Peak Elev=44.41' Storage=2.951 af Inflow=91.96 cfs 18.389 af
Primary=27.82 cfs 8.575 af Secondary=30.07 cfs 9.449 af Outflow=57.89 cfs 18.023 af

Pond 34P: Wetland Detention 34(Cul. Outfa Peak Elev=40.42' Storage=2.657 af Inflow=57.58 cfs 17.921 af
60.0" x 75.0' Culvert Outflow=47.90 cfs 17.128 af

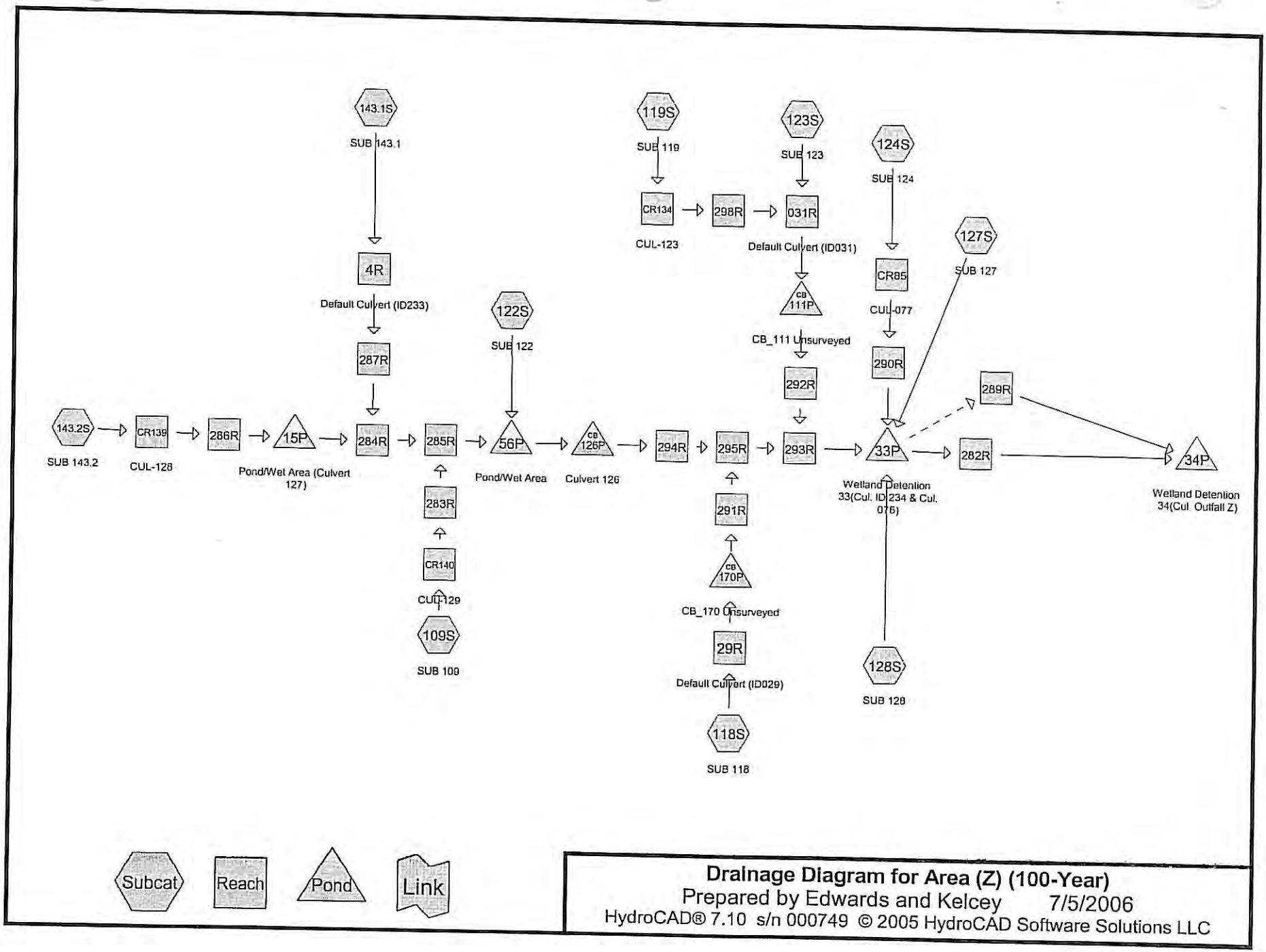
Pond 56P: Pond/Wet Area Peak Elev=59.31' Storage=2.643 af Inflow=34.04 cfs 7.040 af
Outflow=16.67 cfs 4.579 af

Pond 111P: CB_111 Unsurveyed Peak Elev=51.36' Inflow=4.15 cfs 1.424 af
12.0" x 55.0' Culvert Outflow=4.15 cfs 1.424 af

Pond 126P: Culvert 126 Peak Elev=62.82' Inflow=16.67 cfs 4.579 af
18.0" x 100.0' Culvert Outflow=16.67 cfs 4.579 af

Pond 170P: CB_170 Unsurveyed Peak Elev=60.83' Inflow=3.22 cfs 0.594 af
15.0" x 36.0' Culvert Outflow=3.22 cfs 0.594 af

Total Runoff Area = 144.860 ac Runoff Volume = 31.152 af Average Runoff Depth = 2.58"



Drainage Diagram for Area (Z) (100-Year)

Prepared by Edwards and Kelcey 7/5/2006

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 109S: SUB 109 Runoff Area=4.420 ac Runoff Depth>1.61"
Flow Length=545' Tc=19.5 min CN=54 Runoff=5.66 cfs 0.592 af

Subcatchment 118S: SUB 118 Runoff Area=2.520 ac Runoff Depth>3.47"
Flow Length=535' Tc=72.0 min CN=75 Runoff=3.94 cfs 0.728 af

Subcatchment 119S: SUB 119 Runoff Area=1.680 ac Runoff Depth>3.01"
Flow Length=518' Tc=46.1 min CN=70 Runoff=2.95 cfs 0.421 af

Subcatchment 122S: SUB 122 Runoff Area=23.520 ac Runoff Depth>2.81"
Flow Length=750' Tc=50.1 min CN=68 Runoff=36.80 cfs 5.514 af

Subcatchment 123S: SUB 123 Runoff Area=3.910 ac Runoff Depth>4.03"
Flow Length=513' Tc=31.8 min CN=80 Runoff=10.85 cfs 1.313 af

Subcatchment 124S: SUB 124 Runoff Area=0.520 ac Runoff Depth>3.52"
Flow Length=237' Tc=26.0 min CN=75 Runoff=1.39 cfs 0.153 af

Subcatchment 127S: SUB 127 Runoff Area=17.880 ac Runoff Depth>3.51"
Flow Length=942' Tc=38.4 min CN=75 Runoff=39.96 cfs 5.229 af

Subcatchment 128S: SUB 128 Runoff Area=28.930 ac Runoff Depth>3.81"
Flow Length=1,638' Tc=44.5 min CN=78 Runoff=64.93 cfs 9.177 af

Subcatchment 143.1S: SUB 143.1 Runoff Area=9.470 ac Runoff Depth>1.85"
Flow Length=567' Tc=24.8 min CN=57 Runoff=13.06 cfs 1.461 af

Subcatchment 143.2S: SUB 143.2 Runoff Area=52.010 ac Runoff Depth>3.21"
Flow Length=1,595' Tc=37.9 min CN=72 Runoff=107.37 cfs 13.923 af

Reach 4R: Default Culvert (ID233) Peak Depth=1.00' Max Vel=4.0 fps Inflow=13.06 cfs 1.461 af
D=12.0" n=0.013 L=50.0' S=0.0060 '/' Capacity=2.76 cfs Outflow=2.76 cfs 1.461 af

Reach 29R: Default Culvert (ID029) Peak Depth=0.60' Max Vel=6.8 fps Inflow=3.94 cfs 0.728 af
D=15.0" n=0.013 L=116.0' S=0.0172 '/' Capacity=8.48 cfs Outflow=3.94 cfs 0.728 af

Reach 031R: Default Culvert (ID031) Peak Depth=1.00' Max Vel=5.8 fps Inflow=12.35 cfs 1.730 af
D=12.0" n=0.013 L=40.0' S=0.0125 '/' Capacity=3.98 cfs Outflow=4.21 cfs 1.729 af

Reach 282R: Peak Depth=1.09' Max Vel=2.4 fps Inflow=32.43 cfs 10.858 af
n=0.035 L=688.0' S=0.0044 '/' Capacity=251.92 cfs Outflow=32.35 cfs 10.764 af

Reach 283R: Peak Depth=0.16' Max Vel=2.0 fps Inflow=2.14 cfs 0.591 af
n=0.035 L=435.0' S=0.0290 '/' Capacity=568.10 cfs Outflow=2.14 cfs 0.588 af

Reach 284R: Peak Depth=0.35' Max Vel=2.1 fps Inflow=5.61 cfs 2.763 af
n=0.035 L=382.0' S=0.0128 '/' Capacity=377.28 cfs Outflow=5.60 cfs 2.729 af

Reach 285R: Peak Depth=0.39' Max Vel=2.0 fps Inflow=6.01 cfs 3.317 af
n=0.035 L=200.0' S=0.0100 '/' Capacity=333.80 cfs Outflow=5.99 cfs 3.297 af

Reach 286R: Peak Depth=0.16' Max Vel=3.7 fps Inflow=4.40 cfs 3.483 af
n=0.030 L=55.0' S=0.0860 '/' Capacity=2,171.94 cfs Outflow=4.38 cfs 3.480 af

Reach 287R: Peak Depth=0.20' Max Vel=2.1 fps Inflow=2.76 cfs 1.461 af
n=0.035 L=48.0' S=0.0233 '/' Capacity=509.89 cfs Outflow=2.77 cfs 1.460 af

Reach 289R: Peak Depth=0.87' Max Vel=3.5 fps Inflow=34.93 cfs 11.899 af
n=0.035 L=168.0' S=0.0119 '/' Capacity=416.25 cfs Outflow=34.93 cfs 11.881 af

Reach 290R: Peak Depth=0.11' Max Vel=1.5 fps Inflow=1.39 cfs 0.153 af
n=0.035 L=306.0' S=0.0248 '/' Capacity=600.44 cfs Outflow=1.37 cfs 0.152 af

Reach 291R: Peak Depth=0.22' Max Vel=2.0 fps Inflow=3.94 cfs 0.728 af
n=0.035 L=793.0' S=0.0189 '/' Capacity=524.69 cfs Outflow=3.90 cfs 0.720 af

Reach 292R: Peak Depth=0.26' Max Vel=1.8 fps Inflow=4.21 cfs 1.729 af
n=0.035 L=396.0' S=0.0152 '/' Capacity=781.41 cfs Outflow=3.99 cfs 1.722 af

Reach 293R: Peak Depth=0.96' Max Vel=3.0 fps Inflow=33.67 cfs 8.639 af
n=0.035 L=130.0' S=0.0077 '/' Capacity=334.60 cfs Outflow=33.57 cfs 8.621 af

Reach 294R: Peak Depth=0.84' Max Vel=2.7 fps Inflow=26.88 cfs 6.339 af
n=0.035 L=874.0' S=0.0076 '/' Capacity=332.27 cfs Outflow=26.16 cfs 6.227 af

Reach 295R: Peak Depth=1.01' Max Vel=2.4 fps Inflow=29.80 cfs 6.947 af
n=0.035 L=206.0' S=0.0049 '/' Capacity=265.80 cfs Outflow=29.68 cfs 6.916 af

Reach 298R: Peak Depth=0.19' Max Vel=1.8 fps Inflow=2.95 cfs 0.421 af
n=0.035 L=652.0' S=0.0184 '/' Capacity=517.56 cfs Outflow=2.90 cfs 0.416 af

Reach CR134: CUL-123 Peak Depth=0.84' Max Vel=4.2 fps Inflow=2.95 cfs 0.421 af
D=12.0" n=0.024 L=50.0' S=0.0224 '/' Capacity=2.89 cfs Outflow=2.95 cfs 0.421 af

Reach CR139: CUL-128 Peak Depth=1.25' Max Vel=3.9 fps Inflow=107.37 cfs 13.923 af
D=15.0" n=0.024 L=40.0' S=0.0142 '/' Capacity=4.18 cfs Outflow=4.40 cfs 3.483 af

Reach CR140: CUL-129 Peak Depth=1.25' Max Vel=1.9 fps Inflow=5.66 cfs 0.592 af
D=15.0" n=0.024 L=40.0' S=0.0038 '/' Capacity=2.14 cfs Outflow=2.14 cfs 0.591 af

Reach CR85: CUL-077 Peak Depth=0.67' Max Vel=2.5 fps Inflow=1.39 cfs 0.153 af
D=12.0" n=0.024 L=30.0' S=0.0083 '/' Capacity=1.76 cfs Outflow=1.39 cfs 0.153 af

Pond 15P: Pond/Wet Area (Culvert 127) Peak Elev=67.04' Storage=2.176 af Inflow=4.38 cfs 3.480 af
12.0" x 25.0' Culvert Outflow=3.32 cfs 1.303 af

Pond 33P: Wetland Detention 33(Cul. ID 2 Peak Elev=44.67' Storage=3.686 af Inflow=110.81 cfs 23.179 af
Primary=32.43 cfs 10.858 af Secondary=34.93 cfs 11.899 af Outflow=67.36 cfs 22.757 af

Pond 34P: Wetland Detention 34(Cul. Outfa Peak Elev=40.80' Storage=3.276 af Inflow=67.15 cfs 22.645 af
60.0" x 75.0' Culvert Outflow=60.57 cfs 21.751 af

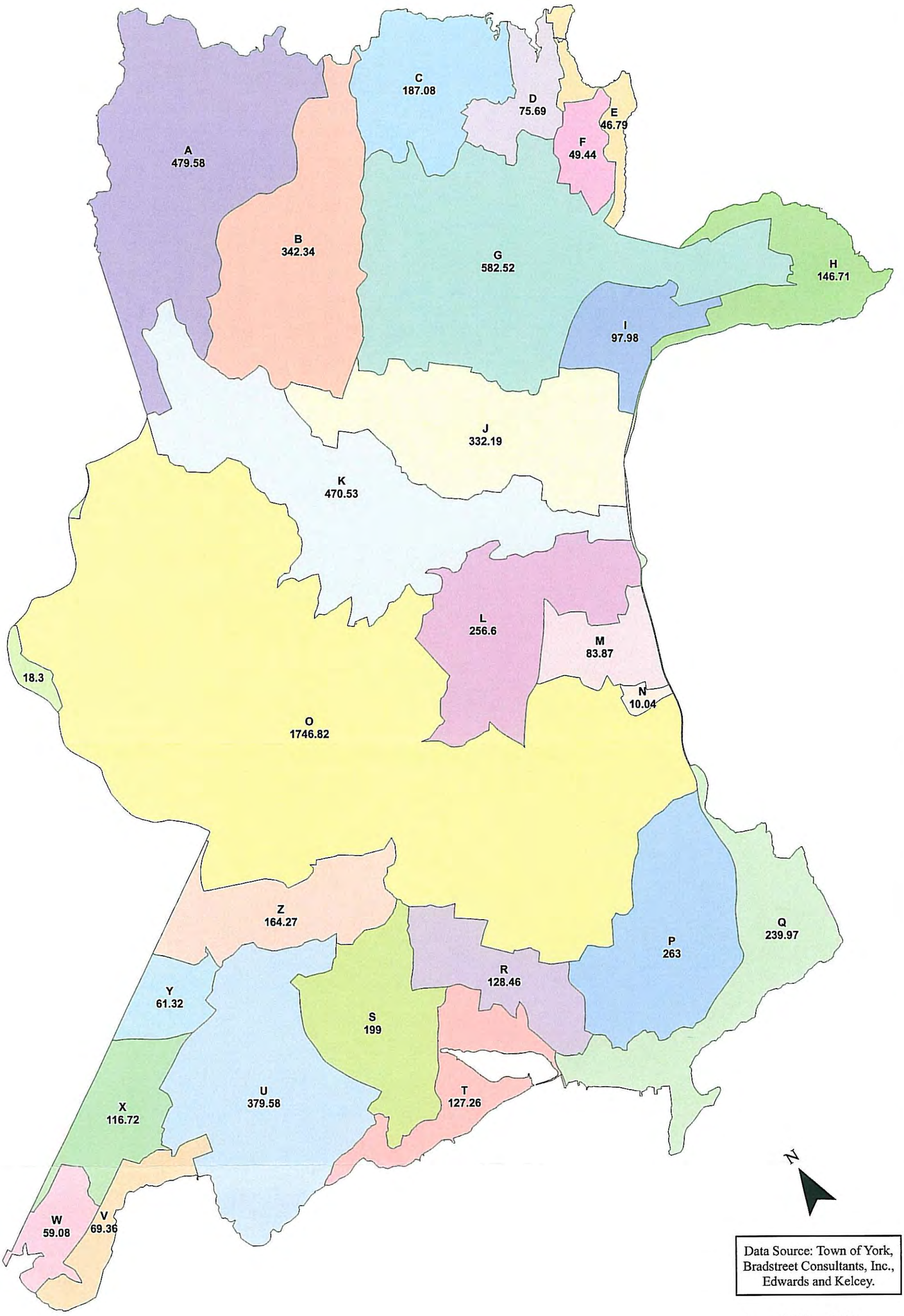
Pond 56P: Pond/Wet Area Peak Elev=59.41' Storage=2.763 af Inflow=41.70 cfs 8.810 af
Outflow=26.88 cfs 6.339 af

Pond 111P: CB_111 Unsurveyed Peak Elev=51.42' Inflow=4.21 cfs 1.729 af
12.0" x 55.0' Culvert Outflow=4.21 cfs 1.729 af

Pond 126P: Culvert 126 Peak Elev=79.91' Inflow=26.88 cfs 6.339 af
18.0" x 100.0' Culvert Outflow=26.88 cfs 6.339 af

Pond 170P: CB_170 Unsurveyed Peak Elev=60.97' Inflow=3.94 cfs 0.728 af
15.0" x 36.0' Culvert Outflow=3.94 cfs 0.728 af

Total Runoff Area = 144.860 ac Runoff Volume = 38.510 af Average Runoff Depth = 3.19"



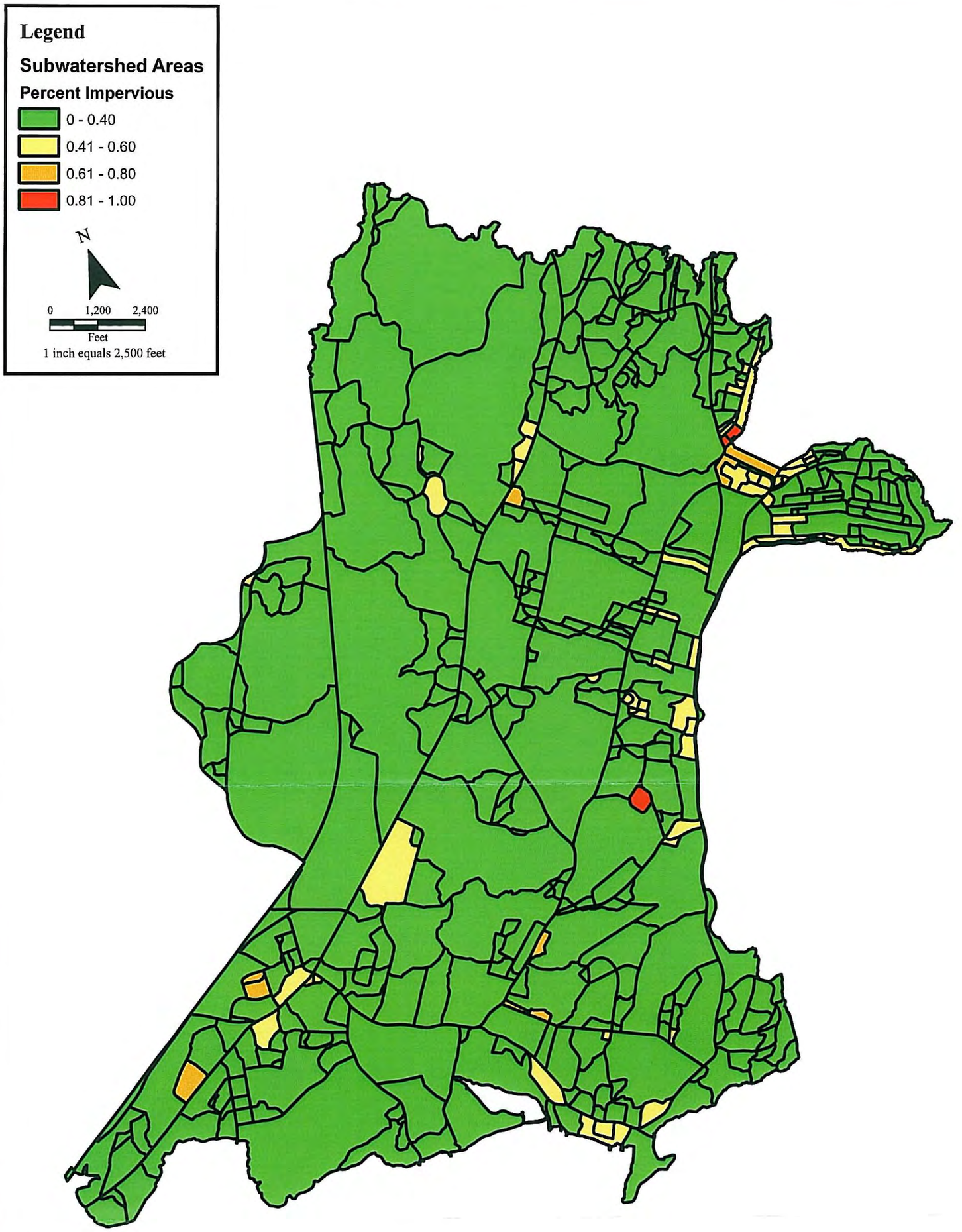
DRAWN BY: CJK	DATE: 4/6/2006
CHECKED BY: SJB	PROJECT: 06057018

Edwards AND Kelcey
ENGINEERS
ARCHITECTS
PLANNERS
CONSTRUCTORS
222 St. John Street Suite 314
Portland, Maine 04102
Tel. (207) 828-1272 Fax (207) 774-6907
www.ekcorp.com

Acreage of Outfall Areas

York Watershed Management
Town of York, Maine

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Data Source: Town of York, Bradstreet Consultants, Inc., Edwards and Kelcey.

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CHECKED BY: SJB	PROJECT: 06057018

Edwards AND Kelcey
ENGINEERS
ARCHITECTS
PLANNERS
CONSTRUCTORS
222 St. John Street Suite 314
Portland, Maine 04102
Tel. (207) 828-1272 Fax (207) 774-6907
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Percent Impervious Subwatershed Areas

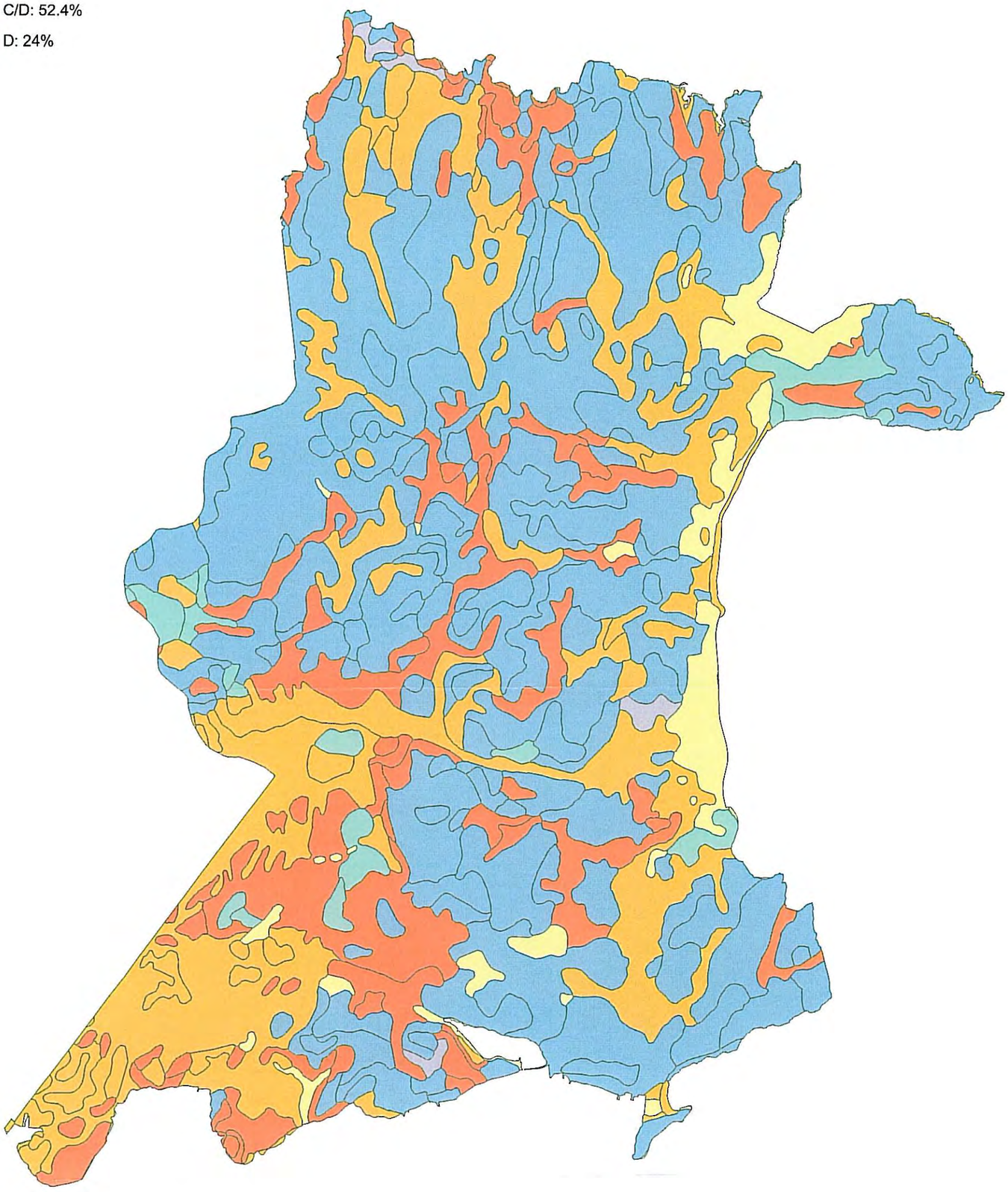
York Watershed Management
Town of York, Maine

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Soil Survey

Hydrologic Groups

- Unknown: 4.3 %
- A: 2.8%
- B: .50%
- C: 16%
- C/D: 52.4%
- D: 24%



N

0 1,500 3,000

Feet

DRAWN BY: CJK	DATE: 4/6/2006
CHECKED BY: SJB	PROJECT: 06057018

Edwards AND Kelcey
ENGINEERS
ARCHITECTS
PLANNERS
CONSTRUCTORS

222 St. John Street Suite 314
Portland, Maine 04102
Tel. (207) 828-1272 Fax (207) 774-6907
www.ekcorp.com

Soil Survey - Percent Hydrologic Groupings

York Watershed Management
Town of York, Maine

Data Source: Maine Office of GIS

T:\Projects\938\Maps\SoilSurvey.mxd

Subareas	Shape_Area	Acres (Subareas)	A_FD	A_FT	A_IP	A_LN	A_W	B_FD	B_FT	B_IP	B_LN	B_W	C_FD	C_FT	C_IP	C_LN	C_W	D_FD	D_FT	D_IP	D_LN	D_W	CD_FD	CD_FT	CD_IP	CD_LN	CD_W	U_FD	U_FT	U_IP	U_LN	U_W	W_FD	W_FT	W_IP	W_LN	W_W	Acres (Composite)	Difference
1	1050511.441	24.12																0.36		2.57	2.75	0.76		0.43	5.77	6.09							0.13	0.05	0.24	0.29	2.67	24.12	0.00
2	314728.652	7.23																						1.64	3.22	2.36												7.23	0.00
3	187769.665	4.31																							2.07	2.24												4.31	0.00
4	264103.374	6.06																						1.48	0.96	3.63												6.06	0.00
5	856965.767	19.67																	0.05	0.19				1.70	4.91	12.84												19.67	0.00
6	224983.439	5.16																						0.99	1.29	2.88												5.16	0.00
7	111208.006	2.55																						0.58	0.64	1.33												2.55	0.00
8	241322.926	5.54																							1.79	3.75												5.54	0.00
9	78290.577	1.80																						0.49	0.47	0.84												1.80	0.00
10.1	475370.296	10.91																						0.68	4.68	5.55												10.91	0.00
10.2	264944.008	6.08																						1.18	1.67	3.23												6.08	0.00
11	101063.520	2.32																						1.07	0.45	0.81												2.32	0.00
12	268460.283	6.16																						0.73	1.83	3.60												6.16	0.00
13	817955.909	18.78																						1.55	4.99	12.24												18.78	0.00
14	179147.899	4.11												0.32	0.29	0.49								1.17	0.80	1.04												4.11	0.00
15	368230.778	8.45																						1.40	1.56	5.50												8.45	0.00
16	113720.539	2.61																	0.10	0.34	0.33			0.54	0.58	0.72												2.61	0.00
17	206755.439	4.75																						1.95	1.10	1.70												4.75	0.00
18	254745.933	5.85																						2.93	1.19	1.73												5.85	0.00
19	144461.518	3.32																						0.34	0.70	2.28												3.32	0.00
20	465525.550	10.69												2.66	0.56	1.43								2.80	1.97	1.27												10.69	0.00
21	114677.192	2.63																						0.73	0.67	1.23												2.63	0.00
22	117543.204	2.70																						1.08	0.77	0.85												2.70	0.00
23	542839.426	12.46												0.82	0.35	0.99								3.40	2.35	4.55												12.46	0.00
24	135259.091	3.11																						0.56	0.89	1.65												3.11	0.00
25	331881.840	7.62												0.00	0.70	1.78								2.06	0.69	2.39												7.62	0.00
26	58692.853	1.35																						0.47	0.59	0.28												1.35	0.00
27	548207.904	12.59																	0.43	0.28	0.49			3.27	3.35	4.49	0.27											12.59	0.00
28	120670.764	2.77																						0.57	0.93	1.26												2.77	0.00
29	216241.091	4.96																						2.11	1.36	1.50												4.96	0.00
30	3067291.017	70.42																	34.93	0.74	1.56			21.56	3.75	7.87												70.42	0.00
31	428402.070	9.83												0.20	0.84	2.42								2.92	0.86	2.60												9.83	0.00
32	90017.581	2.07																						0.54	0.52	1.00												2.07	0.00
33	45729.429	1.05																							0.51	0.54												1.05	0.00
34	122446.996	2.81																						1.33	0.49	1.00												2.81	0.00
35	604881.953	13.89												0.32	1.10	1.66								5.37	2.14	3.29												13.89	0.00
36.1	126594.844	2.91																					1.30	1.05	0.54	0.02												2.91	0.00
36.2	26770.563	0.61																						0.52	0.09													0.61	0.00
37	42080.809	0.97																		0.07	0.18				0.31	0.41												0.97	0.00
38	488695.504	11.22																						0.51	4.87	5.84												11.22	0.00
39	113657.274	2.61																						1.34	0.54	0.73												2.61	0.00
40	641768.824	14.73																	4.53	0.27	1.26			1.52	2.91	4.11	0.14											14.73	0.00
41	161525.860	3.71																						0.13	1.11	2.46												3.71	0.00
42	919478.394	21.11																	3.07	0.22	0.42			5.45	5.05	5.62	0.03							0.10	0.11	0.57	0.46	21.11	0.00
43.1	565705.281	12.99												5.99	0.41	2.03			3.57	0.42	0.57																	12.99	0.00
43.2	117879.781	2.71												1.14	0.22	0.01			1.14	0.20																		2.71	0.00
44	317600.622	7.29																	0.14	0.12	0.15			2.41	1.47	3.01												7.29	0.00
45	298157.026	6.84																						1.86	2.19	2.79												6.84	0.00
46	2031615.879	46.64																	6.88	0.82	1.54			16.49	6.87	12.04												46.64	0.00
47	256459.820	5.89																						1.85	1.24	1.80												5.89	0.00
48	787129.619	18.07												7.82	0.68	4.86			4.29	0.20														0.24				18.09	-0.02
49	1116326.092	25.67												5.24		0.00			2.83	0.95	2.25			6.66	2.90	4.84												25.67	0.00
50	379933.054	8.72																	3.23	1.50	4.00																8.72	0.00
51	245503.549	5.64												0.81	0.40	0.77		0.00	0.76	1.09	1.81																	5.64	0.00
52.1	1463856.050	33.61								0.15	0.41	3.70		2.53	0.20	7.44								3.42	2.24	13.52												33.61	0.00
52.2	590430.452	13.55									0.06	0.01												1.17	5.19	7.10									0.02			13.55	0.00
52.3	3904087.446	89.63									0.49	2.88							1.21		0.16	1.01		24.93	11.05	12.06	6.29		0.06	4.94	1.22			0.45	0.03	0.23	3.05	89.63	0.00
52.4	76117.664	1.75												0.20	0.22	0.69								0.00	0.08	0.17			0.00	0.13	0.07							1.75	0.00
53	161526.614	3.71																		0.49	3.22																	3.71	0.00
54	277715.384	6.38													0.52	1.91				0.79	3.15																	6.38	0.00
55	1205670.166	27.68		0.94	1.32	0.44																	1.01	8.24	6.09	7.13				2.14	0.37						27.68	0.00
56.1	7578523.796	173.98											5.52	22.47	0.68	24.51	2.47	10.63	33.42	1.85	11.76	0.36	27.09	17.27	2.72	4.02				0.02	0.04		0.14	2.60	0.09	1.71	4.64	173.98	0.00
56.2	1048820.014	24.08											1.85	1.05					5.95	0.24			2.38	11.49	1.09	0.02								0.00	0.01			24.08	0.00
56.3	157116.572	3.61																						3.23	0.37													3.61	0.00
57	729005.376	16.74												2.81	0.25				12.71	0.75	0.22																	16.74	0.00
58	55063.926	1.26																						0.15	0.36	0.76												1.26	0.00
59	131436.726	3.02																		0.76	2.26																	3.02	0.00
60	83449.331	1.92													0.27	0.59				0.25	0.80																	1.92	0.00
61	277435.827	6.37																	0.48	0.44	0.71			1.94	0.95	1.93												6.37	0.00
62	107409.086	2.47																0.62	1.77	0.07																	2.47	0.00
63	31006.425	0.71																		0.18	0.53																	0.71	0.00
64.1	248096.754	5.70																	1.52	1.32	2.70				0.02	0.13												5.70	0.00
64.2	3526190.710	80.95	0.96	4.27	2.85	0.29												1.66	29.05	2.97	6.06			22.79	3.46	6.25			0.25	0.08								80.95	0.00
65	393675.747	9.04												0.03	0.00				4.69	0.85	1.47				0.30	0.86			0.10	0.41	0.34							9.04	0.00
66	349034.304	8.01																3.48	2.51	0.64	1.38																	8.01	0.00
67	210863.182	4.84																		1.15	3.69																	4.84	0.00
68	224383.883	5.15													0.04	0.01				1.12	3.99																	5.15	0.00
69	216685.653	4.97																						0.71	1.72	2.54												4.97	0.00
70	55889.409	1.28																						0.03	0.40	0.86												1.28	0.00
71	236092.514	5.42												0.20	0.36	0.63			1.70	0.88	1.66																	5.42	0.00
72	63117.974	1.45												0.02	0.11	0.36			0.33	0.23	0.41																	1.45	0.00
73	203659.569	4.68																						1.23	0.96	2.48												4.68	0.00
74.1	1229115.138	28.22												5.79	1.55	4.27			8.70	2.17	5.40													0.27	0.00	0.07		28.22	0.00
74.2	688829.330	15.81												0.73	0.36	1.54			0.59	4.83	7.78																	15.81	0.00
75.1	221120.795	5.08																	1.86	0.98	2.23																	5.08	0.00
75.2	36467.061	0.84																	0.09	0.25	0.50																	0.84	0.00

Subareas	Shape_Area	Acres (Subareas)	A_FD	A_FT	A_IP	A_LN	A_W	B_FD	B_FT	B_IP	B_LN	B_W	C_FD	C_FT	C_IP	C_LN	C_W	D_FD	D_FT	D_IP	D_LN	D_W	CD_FD	CD_FT	CD_IP	CD_LN	CD_W	U_FD	U_FT	U_IP	U_LN	U_W	W_FD	W_FT	W_IP	W_LN	W_W	Acres (Composite)	Difference
76	2358046.850	54.13												1.10	0.86	1.33		1.45	18.46	7.87	17.07			1.30	1.09	1.39				0.02	0.05			1.69	0.20	0.25		54.13	0.00
77	3995403.391	91.49											12.08	25.07	6.84	16.05	0.05		1.24	0.60	0.60		4.13	6.49	3.26	7.43	0.45			2.93	1.55		0.70	0.13	0.19	0.07	1.63	91.49	0.00
78	165923.076	3.81																1.11	0.55	0.43	1.72																	3.81	0.00
79	282860.956	6.49																4.15	0.46	1.61	0.27																	6.49	0.00
80	504331.721	11.58																	3.39	7.25	0.94																11.58	0.00
81	2125334.729	48.79												1.15	2.65	9.41								16.01	5.81	12.06				1.43	0.27							48.79	0.00
82	418043.074	9.60		1.19	0.08	0.03								1.26	1.73	4.34								0.13	0.32	0.51												9.60	0.00
83	396916.739	9.11																						3.06	2.04	4.01												9.11	0.00
84.1	75593.282	1.74		0.31	0.71																			0.09	0.34	0.30												1.74	0.00
84.2	111558.103	2.56		0.43	1.61	0.46																			0.03	0.02												2.56	0.00
84.3	1625682.281	41.91		4.75	3.26	0.76							0.05	9.01	0.54	0.54	2.68						0.70	10.23	3.35	5.94	0.09												41.91	0.00
84.4	167056.566	3.84												0.01		0.01								0.19	2.97	0.65												3.84	0.00
84.5	2441461.474	56.05											0.23	25.06	1.76	4.32							1.21	8.62	5.67	9.18												56.05	0.00
84.6	158377.027	3.64													0.02	0.04								0.42	0.90	2.26												3.64	0.00
85	415192.558	9.53																4.22	2.69	1.16	1.47																	9.53	0.00
86	52926.723	1.22													0.09	0.27								0.17	0.25	0.44												1.22	0.00
87	355139.376	8.15												0.32	1.01	1.78			1.44	1.45	2.14																	8.15	0.00
88	170140.664	3.91												0.01	0.06	0.05								1.26	0.84	1.68												3.91	0.00
89	1287898.887	29.57												4.32	4.59	11.81								3.85	2.07	2.93												29.57	0.00
90	97089.307	2.23																						0.68	0.41	1.14												2.23	0.00
91	134176.909	3.08												0.13	0.49	1.81									0.28	0.37												3.08	0.00
92	1126543.878	25.86												1.95	1.89	14.71								3.56	0.68	3.09												25.86	0.00
93	436038.523	10.01																1.09	1.44	4.53	2.91									0.01	0.02							10.01	0.00
94	320597.920	7.36																4.02	1.31	0.66	0.69									0.51	0.17							7.36	0.00
95	77026.684	1.77												0.45	0.21	0.17								0.19	0.26	0.50												1.77	0.00
96	768365.106	17.64																7.71	6.53	3.13	0.27																	17.64	0.00
97	176798.137	4.06		0.44	0.42	1.84									0.33	1.04																						4.06	0.00
98	410043.235	9.41																6.70	0.01	2.13	0.57																	9.41	0.00
99	520907.108	11.96		1.55	0.65	1.95								2.30	1.53	3.97																						11.96	0.00
100	1151805.848	26.44												0.44	2.07	3.63		0.00	9.42	2.29	5.30									2.68	0.62							26.44	0.00
101	37140.546	0.85																							0.22	0.64												0.85	0.00
102	38216.671	0.88													0.22	0.13														0.39	0.14							0.88	0.00
103	39456.018	0.91													0.37	0.53																						0.91	0.00
104	105525.548	2.42																						0.78	0.65	0.99												2.42	0.00
105.1	52654.754	1.21																	0.85	0.36																		1.21	0.00
105.2	535292.385	12.29												1.79	0.83	0.91			3.07	3.73	1.72									0.16	0.09							12.29	0.00
106.1	1267617.280	29.10		0.39			0.04							3.52					4.32	1.55	7.09	2.06	0.53	3.72	0.56	1.95	0.36							0.45	0.05	0.17	2.35	29.10	0.00
106.2	3192258.199	73.28		4.44	2.05	0.09	0.49							5.06	0.98	3.37		0.36	19.03	2.62	4.58	0.40		0.39	0.48	1.28		0.34	5.66	11.04	8.96	0.41		0.60		0.04	0.63	73.28	0.00
107	2329457.197	53.48											0.40	1.41	1.03	0.81		6.47	27.12	11.81	4.42																	53.48	0.00
108	66731.326	1.53																											0.06	0.69	0.78							1.53	0.00
109	192542.310	4.42		0.49	0.69	2.47								0.03	0.19	0.55																						4.42	0.00
110	112242.172	2.58																		0.00				0.73	0.66	1.19												2.58	0.00
111	330520.382	7.59												1.48	2.68	3.43																						7.59	0.00
112	426009.160	9.78		0.95	0.37	0.31							0.06	0.24	2.58	3.20				0.18										0.03	1.26	0.58							9.78	0.00
113	92395.983	2.12											1.32	0.17	0.56	0.08																						2.12	0.00
114	269883.340	6.20			2.81	0.41									0.92	2.06																						6.20	0.00
115	255809.932	5.87																											0.12	3.03	2.72							5.87	0.00
116	110389.177	2.53			0.31										1.40	0.83																						2.53	0.00
117	329334.021	7.56	0.82	3.32	0.37	0.00							0.19	1.40	0.67	0.79																						7.56	0.00
118	109500.596	2.52												1.83	0.39	0.30																						2.52	0.00
119	82916.098	1.90												1.64	0.24	0.02																						1.90	0.00
120.1	3837928.990	88.11												18.28	1.12	2.25								53.23	4.88	8.35												88.11	0.00
120.2	131165.205	3.01												0.40	0.39	0.63								0.48	0.28	0.84												3.01	0.00
121.1	27105.142	0.62																											0.19	0.09	0.34							0.62	0.00
121.2	181666.204	4.17																	0.01	0.08	0.20								1.80	1.12	0.97							4.17	0.00
122	1308350.381	30.04		3.26	0.86	0.43	0.25							10.31	6.50	5.44	0.44		0.20	0.18	0.01													1.16	0.03	0.05	0.91	30.04	0.00
123	170461.603	3.91												0.02	0.52	1.85			0.01	0.14	1.37																	3.91	0.00
124	22754.325	0.52												0.31	0.05	0.01			0.10		0.05																	0.52	0.00
125	1373689.358	31.54		0.00									4.26	8.93	1.47		0.74	4.21	8.38	3.48	0.06																	31.54	0.00
126	256163.193	5.88							4.26											0.25					1.38													5.88	0.00
127	782763.800	17.97		0.07									0.26	7.37	0.39	2.10		1.66	4.56	0.87	0.70																	17.97	0.00
128	1259851.642	28.92											7.62	2.04	1.81	0.21		13.02	2.89	1.26	0.08																	28.92	0.00
129	9326.145	0.21																							0.11	0.10												0.21	0.00
130.1	3937277.206	90.39						0.22	2.62	3.87				0.08	0.04				41.42	2.05	5.24	1.18		17.52	3.65	11.10	0.00		0.59	0.38	0.43							90.39	0.00
130.2	639620.678	14.68												1.73	0.59	1.24			1.32	0.18	0.21			2.74	1.95	4.72												14.68	0.00
131	837486.283	19.23												1.56	0.20	0.18								14.90	0.68	1.69												19.23	0.00
132	775630.780	17.81																		0.01					0.01				1.36	6.97	9.45							17.81	0.00
133	1049281.869	24.09						0.96	0.71	0.41														9.99	1.18	1.57			1.91	3.03	4.32							24.09	0.00
134	231648.453	5.32																						0.16	0.61	0.14			1.54	2.26	0.61							5.32	0.00
135	198804.749	4.56												0.53	0.05	0.20								2.71	0.49	0.59												4.56	0.00
136	207649.401	4.77																	1.22	1.65	1.90																	4.77	0.00
137.1	1046856.435	24.03							0.06	0.79									7.50	0.42	2.20	0.21		4.98	2.02	5.82	0.03												24.03	0.00
137.2	120923.753	2.78																						1.32	0.49	0.97												2.78	0.00
138.1	296094.270	6.80																	0.21	0.08	0.13			1.22	2.20	2.89				0.04	0.02							6.80	0.00
138.2	110053.750	2.53																	1.21	0.15	0.29			0.09	0.24	0.55												2.53	0.00
139	83707.926	1.92																	1.51	0.23	0.03			0.08	0.07													1.92	0.00
140	102809.280	2.36																						0.04	0.16	0.17				0.87	1.12							2.36	0.00
141.1	38064.410	0.87		0.02	0.06																			0.33	0.23	0.22												0.87	0.00
141.2	964499.274	22.14			0.03	0.05								5.30	0.71	1.10								8.11	1.55	5.30												22.14	0.00
142.1	1270335.552	29.16																6.61	15.87	4.28	1.92													0.44	0.04			29.16	0.00
142.2	352162.283	8.08													0.22	0.54				3.00	4.32																	8.08	0.00
143.1	412632.862	9.47		3.17	0.88	1.50								1.96	0.72	1.25																						9.47	0.00
143.2	2265937.057	52.02		4.04	0.69	0.96								11.23	0.79	2.60			8.51	0.17	0.16			19.75	0.16	2.97												52.02	0.00
143.3	343572.106	7.89		2.30	0.68								1.71	0.80	2.06	0.18	0.16																					7.89	0.00
143.4	1962072.557	45.04		2.35	1.08	0.53							1.05	9.27	10.43	3.38			1.44	11.57	2.42			0.28	0.33	0.91												45.04	0.00
143.5	101042.693	2.32												1.03	0.32	0.97																						2.32	0.00

Subareas	Shape_Area	Acres (Subarea)	A_FD	A_FT	A_IP	A_LN	A_W	B_FD	B_FT	B_IP	B_LN	B_W	C_FD	C_FT	C_IP	C_LN	C_W	D_FD	D_FT	D_IP	D_LN	D_W	CD_FD	CD_FT	CD_IP	CD_LN	CD_W	U_FD	U_FT	U_IP	U_LN	U_W	W_FD	W_FT	W_IP	W_LN	W_W	Acres (Composite)	Difference
144	274160.019	6.29												0.46	0.28	0.59			0.09	0.06	0.22			1.93	0.75	1.91												6.29	0.00
145	79653.777	1.83																	0.00	0.31	0.78		0.03	0.02	0.23	0.45												1.83	0.00
146	410897.020	9.43																	1.29	0.93	0.46			1.33	0.51	0.71			0.60	2.97	0.63							9.43	0.00
147	836321.436	19.20																0.02	6.20	0.39	0.17		1.04	4.25	3.25	3.77			0.09	0.03								19.20	0.00
148	61101.509	1.40																		0.11	0.09				0.59	0.62												1.40	0.00
149	28107.994	0.65																		0.10	0.09				0.20	0.26												0.65	0.00
150	65933.678	1.51																		0.00				0.05	0.67	0.79												1.51	0.00
151	7576297.814	173.97		4.63	0.57	1.46	0.26							12.64	1.46	2.93	0.01		40.83	2.37	2.71	1.00		76.60	11.75	14.44	0.32											173.97	0.00
152.1	154926.264	3.56																0.30	0.47	0.11	0.66		0.14	0.20	0.65	1.02												3.56	0.00
152.2	50768.318	1.17																							0.52	0.64												1.17	0.00
153.1	28506.373	0.65																						0.24	0.24	0.17												0.65	0.00
153.2	89796.737	2.06																							0.91	1.15												2.06	0.00
154	789499.108	18.12																	5.74	0.60	0.31			7.49	2.10	1.88												18.12	0.00
155	507538.601	11.65																						6.85	1.73	3.07												11.65	0.00
156	108720.488	2.50																						0.76	0.75	0.31			0.16	0.41	0.11							2.50	0.00
157	164418.504	3.77																		1.06	0.93									0.76	1.02							3.77	0.00
158	72882.269	1.67																						0.46	0.29	0.32			0.07	0.22	0.32							1.67	0.00
159	54459.870	1.25													0.33	0.32									0.35	0.26												1.25	0.00
160	43096.763	0.99												0.28	0.03	0.12	0.03							0.06	0.24	0.22	0.01											0.99	0.00
161.1	2661025.292	61.09											6.12	10.94	3.11	1.69	0.43	3.82	4.22	0.06	0.01		0.01	21.51	3.76	5.39	0.01											61.09	0.00
161.2	764247.808	17.54												0.08	0.04	0.05			5.60	0.21	0.63			6.84	1.56	2.53												17.54	0.00
162	510368.027	11.72												1.05	0.10	0.31								5.07	1.66	3.54												11.72	0.00
163.1	415976.991	9.55												2.17	0.47	0.82								2.50	1.94	1.56									0.02	0.06		9.55	0.00
163.2	1129051.316	25.92												0.18	0.10	0.07			4.95	1.45	0.07	0.29		11.64	3.17	2.89			0.06	0.48	0.58				0.00			25.92	0.00
163.3	96147.746	2.21																						1.38	0.40	0.42												2.21	0.00
164	6642708.192	152.50												23.36	0.31	0.32			19.03	0.26	0.30	0.38		75.71	8.84	23.98												152.50	0.00
165	389645.255	8.95																	1.31	0.06	0.11				0.02	0.04			1.77	2.79	2.85							8.95	0.00
166	274932.153	6.31													0.00									4.19	0.78	1.34												6.31	0.00
167	33038.777	0.76																							0.27	0.49												0.76	0.00
168	95619.994	2.20												0.57	0.13	0.01								1.06	0.16	0.26												2.20	0.00
169	91114.634	2.09												0.70	0.22	0.16								0.63	0.08	0.29												2.09	0.00
170	26113.031	0.60																							0.24	0.36												0.60	0.00
171	28049.344	0.64																							0.30	0.34												0.64	0.00
172	202228.016	4.64													0.45	0.87	0.00							0.21	0.84	1.75	0.01											4.13	0.51
173	913520.397	20.97												0.39	1.38	1.55								11.46	2.01	4.18												20.97	0.00
174	880135.618	20.21																						7.81	5.88	4.75			0.16	0.66	0.95							20.21	0.00
175	197436.928	4.53												0.86	0.51	0.31								1.06	0.77	1.02												4.53	0.00
176	87963.287	2.02																						0.08	1.17	0.75				0.01	0.01							2.02	0.00
177	58606.819	1.35													0.08	0.02									0.40	0.84												1.35	0.00
178	86862.688	1.99												0.08	0.02	0.04								1.25	0.24	0.37												1.99	0.00
179	69375.175	1.59																						0.67	0.61	0.31												1.59	0.00
180	41615.791	0.96																						0.31	0.33	0.32												0.96	0.00
181	77914.638	1.79			0.32	0.47									0.05	0.07									0.34	0.53												1.79	0.00
182	35376.409	0.81																						0.16	0.30	0.36												0.81	0.00
183	86629.977	1.99												0.30	0.06	0.00								0.97	0.49	0.16												1.99	0.00
184	71945.680	1.65																						0.60	0.50	0.55												1.65	0.00
185	50845.500	1.17																						0.35	0.51	0.31												1.17	0.00
186	251394.308	5.77																						4.64	0.41	0.73												5.77	0.00
187	31562.492	0.72																						0.43	0.18	0.12												0.72	0.00
188	93799.923	2.15																						0.94	0.57	0.64												2.15	0.00
189.1	157661.579	3.62																		0.01	0.07			2.01	0.49	1.04												3.62	0.00
189.2	108669.151	2.50																	0.68	0.14	0.18			0.83	0.27	0.40												2.50	0.00
190	446830.508	10.26												0.64	0.87	1.60	0.21							0.61	2.01	4.03	0.29											10.26	0.00
191	60268.111	1.38																		0.06	0.06			0.51	0.22	0.54												1.38	0.00
192	37718.402	0.87			0.12	0.17									0.00										0.28	0.31												0.87	0.00
193	76814.479	1.76			0.02	0.00									0.09	0.10									0.50	1.05												1.76	0.00
194	569345.654	13.07												1.31	0.58	0.63	0.64							6.63	1.52	1.76												13.07	0.00
195	60978.381	1.40												0.30	0.05	0.03								0.21	0.36	0.46												1.40	0.00
196	5830417.143	133.85	6.64	3.33	0.58								3.70	24.62	3.30	3.08		6.61	61.51	6.86	2.40	0.36		5.72	2.54	2.62												133.85	0.00
197	273106.739	6.27																						1.99	1.65	2.63												6.27	0.00
198	29698.445	0.68												0.28	0.22	0.18									0.00													0.68	0.00
199	104385.725	2.40												1.05	0.36	0.27			0.01	0.09	0.06			0.31	0.14	0.10												2.40	0.00
200	102245.054	2.35																						1.12	0.65	0.58												2.35	0.00
201	68683.154	1.58			0.69	0.88									0.01																							1.58	0.00
202	350085.794	8.04																		0.01				5.41	1.78	0.84												8.04	0.00
203	221789.034	5.09																						1.94	1.20	1.95												5.09	0.00
204	141368.281	3.25												0.02	0.03	0.04								2.24	0.46	0.45												3.25	0.00
205	2636366.587	60.52											0.49	8.49	0.47	1.66			5.78	0.53	0.31		0.23	25.25	4.89	7.38								0.79	3.55	0.04	0.12	0.52	60.52	0.00
206	180836.981	4.15																						1.23	1.23	1.69												4.15	0.00
207	107144.245	2.46																						0.35	0.82	1.30												2.46	0.00
208	132980.093	3.05			1.63	1.42																																3.05	0.00
209	614627.977	14.11			1.51	4.92														2.08	0.14				2.07	3.36				0.04								14.11	0.00
210	39336.707	0.90																						0.64	0.19	0.07												0.90	0.00
211	213397.154	4.90																						2.94	1.05	0.91												4.90	0.00
212	4313.144	0.10																							0.10													0.10	0.00
213	92270.764	2.12		0.30	0.13	0.09																		0.27	0.60	0.74												2.12	0.00
215	59962.687	1.38																						0.88	0.34	0.16												1.38	0.00
216	1196127.865	27.46		0.16	0.38	0.33								3.54	1.91	1.76								6.86	4.90	7.63												27.46	0.00
217	16880.366	0.39																							0.19	0.19												0.39	0.00
218	336701.903	7.73																						2.30	1.95	3.47												7.73	0.00
219	132900.829	3.05																						0.57	0.70	1.77												3.05	0.00
220	177353.795	4.07		0.29	0.51	0.86								0.15	1.12	1.14																								4.07	0.00
221	8352421.163	191.75		6.21	0.16	0.43								26.96	2.92	4.75			61.86	6.02	5.37	0.04		63.99	3.95	9.10												191.75	0.00
222	1911487.609	43.88													0.70	0.07			16.23	3.60	2.82	0.11		3.20	1.51	1.58			2.69	6.95	4.43							43.88	0.00
223	380903.165	8.74																						4.49	1.26	3.00												8.74	0.00
224	251317.240	5.77		2.24	0.14	0.30								2.55	0.30	0.22								0.00	0.01	0.01												5.77	0.00

Subareas	Shape_Area	Acres (Subareas)	A_FD	A_FT	A_IP	A_LN	A_W	B_FD	B_FT	B_IP	B_LN	B_W	C_FD	C_FT	C_IP	C_LN	C_W	D_FD	D_FT	D_IP	D_LN	D_W	CD_FD	CD_FT	CD_IP	CD_LN	CD_W	U_FD	U_FT	U_IP	U_LN	U_W	W_FD	W_FT	W_IP	W_LN	W_W	Acres (Composite)	Difference
225	127472.633	2.93																						1.76	0.55	0.51												2.82	0.10
226	22479.201	0.52		0.04	0.11	0.33									0.03	0.01																						0.52	0.00
227	308094.400	7.07		1.27	1.50	2.80								0.01	0.22	0.15								0.43	0.42	0.28												7.07	0.00
228	55964.198	1.28			0.43	0.85																																1.28	0.00
229	176283.820	4.05			0.01									0.39	2.16	1.50																						4.05	0.00
230	125628.093	2.88																						0.35	0.85	1.69												2.88	0.00
231	79001.019	1.81																						1.08	0.45	0.27												1.81	0.00
232	247767.567	5.69																	0.58	1.15	1.09			0.41	0.49	0.33			0.03	0.79	0.81						5.69	0.00
233	113955.466	2.62																						0.60	0.83	1.18												2.62	0.00
234	97262.534	2.23																						1.70	0.24	0.29												2.23	0.00
235	96700.280	2.22																						0.62	0.61	0.99												2.22	0.00
236.1	72632.306	1.67		0.72	0.31	0.25								0.25	0.07	0.07																						1.67	0.00
236.2	123599.983	2.84		1.32	0.33	0.86								0.13	0.08	0.03			0.02	0.03	0.04																	2.84	0.00
237	137163.856	3.15			1.16	1.99																																3.15	0.00
238	256866.941	5.90																						2.70	1.13	1.96	0.11											5.90	0.00
239	258153.441	5.93																		0.01				1.06	2.03	2.83												5.93	0.00
240	238854.882	5.48																	1.12	1.07	0.89	0.02		0.17	0.75	0.67			0.17	0.24	0.38							5.48	0.00
241	181799.434	4.17		0.39	1.30	2.03									0.30	0.16																						4.17	0.00
242	173678.425	3.99		0.46	1.49	2.03																								0.00							3.99	0.00
243	878509.011	20.17		11.44	0.22									0.34					6.66	0.27	0.42			0.67	0.00	0.14												20.17	0.00
244	520029.324	11.94		1.29	3.16	4.39								1.15	0.81	0.88													0.03	0.15	0.07							11.94	0.00
245	171985.063	3.95																						1.13	1.00	1.82												3.95	0.00
246.1	202784.875	4.66																						2.66	0.71	1.09												4.66	0.00
246.2	30280.698	0.70																						0.51	0.12	0.07												0.70	0.00
247	64146.568	1.47																						0.46	0.34	0.67												1.47	0.00
248	156423.453	3.59		0.30	0.73	1.16								0.00		0.02								0.61	0.41	0.37												3.59	0.00
249	259215.440	5.95		0.04	0.32	0.38																		2.19	0.83	2.20												5.95	0.00
250	138049.931	3.17																						1.27	0.87	1.03												3.17	0.00
251	77023.979	1.77			0.72	0.63																								0.22	0.20							1.77	0.00
252	41117.191	0.94																						0.01	0.22	0.72												0.94	0.00
253	93304.882	2.14		0.09	0.06	0.22								0.17	0.14	0.41								0.32	0.11	0.39			0.02	0.08	0.13							2.14	0.00
254	324140.949	7.44		0.16	0.69	1.05								0.55	0.06														0.91	1.70	2.33							7.44	0.00
255	219269.989	5.03																	1.60	0.10	0.72			0.88	0.41	1.33												5.03	0.00
256	289641.553	6.65		0.37	0.11	0.21								2.39	0.26	0.56													0.30	0.89	1.57							6.65	0.00
257	284150.448	6.52																						1.06	1.87	2.88			0.02	0.23	0.47							6.52	0.00
258	40495.094	0.93																												0.47	0.46							0.93	0.00
259	339693.187	7.80																	0.74	0.20	0.22			4.04	0.85	1.74												7.80	0.00
260	877572.831	20.15												2.74	0.07		0.11		0.02	0.01	0.02			12.81	1.13	2.22	0.28							0.62			0.10	20.15	0.00
261.1	87453.804	2.01																						1.11	0.32	0.58												2.01	0.00
261.2	148801.645	3.42																						2.08	0.69	0.64												3.42	0.00
262	53006.129	1.22																												0.64	0.57							1.22	0.00
263	1059429.315	24.32																	0.41	0.61	1.32	0.00	0.73	1.03	7.84	11.94	0.26							0.01			0.18	24.32	0.00
264	35467.369	0.81																												0.28	0.54							0.81	0.00
265	102210.662	2.35																						0.80	0.38	0.42				0.24	0.51							2.35	0.00
266	193067.496	4.43		0.01	1.08	0.72													0.04	0.10	0.05								0.26	1.05	1.13							4.43	0.00
267	133296.248	3.06																												1.32	1.74							3.06	0.00
268	91002.227	2.09																												1.05	1.04							2.09	0.00
269	40263.492	0.92																						0.16	0.11	0.21				0.25	0.20							0.92	0.00
270	41164.729	0.95																												0.38	0.57							0.95	0.00
271	29758.453	0.68																												0.31	0.37							0.68	0.00
272	88660.463	2.04																												0.98	1.06							2.04	0.00
273	38995.883	0.90																												0.15	0.74							0.90	0.00
275	342355.227	7.86	0.95	2.58	0.63	1.20								0.00	0.03	0.02			0.24	0.13	0.05		0.01	0.96	0.89	0.16												7.86	0.00
276	226942.086	5.21																			0.23			0.31	1.79	2.88												5.21	0.00
277	103045.207	2.37																						1.54	0.53	0.29												2.37	0.00
278	580739.746	13.33		10.23		0.21								1.74										0.47	0.15	0.53												13.33	0.00
279	1677793.860	38.52		0.50	2.07	4.06	0.20												6.79	5.21	5.16	0.77		0.13	0.09		0.01		0.92	6.82	5.66	0.13						38.52	0.00
280	1420313.018	32.61																	9.83	1.69	2.71			9.75	2.24	4.91			0.20	0.38	0.90							32.61	0.00
281	40852.348	0.94																												0.41	0.53							0.94	0.00
282	85405.019	1.96																		0.33	0.38									0.65	0.59							1.96	0.00
283	175251.509	4.02																						0.52	0.60	0.52			0.13	0.94	1.31							4.02	0.00
284	203426.315	4.67													0.10	0.05								2.12	0.83	1.57												4.67	0.00
285	4186091.914	96.10												32.27	1.53	2.71			10.60	0.36	1.04			35.73	4.54	7.33												96.10	0.00
286	316393.215	7.31																						4.51	1.03	1.77												7.31	0.00
287	4112261.736	94.40												28.31	4.24	3.56			12.24	0.23	1.39			29.47	6.76	8.19												94.40	0.00
288	53700.459	1.23																												0.38	0.86							1.23	0.00
289	292344.406	6.71			0.50	0.40													0.00	1.07	2.05								0.04	1.45	1.20							6.71	0.00
290	145170.240	3.33																	0.08	0.02				2.34	0.38	0.51												3.33	0.00
291	216308.609	4.97																						3.37	0.87	0.73												4.97	0.00
292	225758.062	5.18			0.04	0.00														0.33	0.70									3.71	0.40							5.18	0.00
293	92604.746	2.13																						1.49	0.36	0.27												2.13	0.00
294	402165.763	9.23																												5.75	3.49							9.23	0.00
295	7659.422	0.18																												0.18								0.18	0.00
296	51603.308	1.18																												1.18								1.18	0.00
297	2698807.975	61.96																	14.03	1.91	0.68	0.11	2.49	25.55	5.91	1.83	0.08	0.45	0.43	5.88	1.36			0.35	0.01		0.87	61.96	0.00
298	533294.087	12.24																	0.84	0.13	0.07			8.11	1.70	1.39												12.24	0.00
299	158892.619	3.65																						2.27	0.81	0.57												3.65	0.00
300	99422.786	2.28																												2.28								2.28	0.00
301	78315.787	1.80																						1.13	0.44	0.22												1.80	0.00
303	55217.238	1.27																												0.75	0.52							1.27	0.00
304	2252419.727	51.71												8.76	1.10	1.93			6.35	0.04	0.26			26.06	3.39	3.82												51.71	0.00
305	179420.617	4.12																	0.28					2.51	0.55	0.78												4.12	0.00
306.1	6393645.100	146.78		0.14	0.00									16.76	0.28	0.30								114.30	8.56	6.44												146.78	0.00
306.2	324266.640	7.44																	0.81	0.10	0.04			6.36	0.13	0.01												7.44	0.00
307	60018.252	1.38																						0.01	0.13	0.12			0.05	0.62	0.44							1.38	0.00
308	171535.660	3.94																						1.11	1.01	1.75				0.02	0.05							3.94	0.00

Subareas	Shape_Area	Acres (Subarea)	A_FD	A_FT	A_IP	A_LN	A_W	B_FD	B_FT	B_IP	B_LN	B_W	C_FD	C_FT	C_IP	C_LN	C_W	D_FD	D_FT	D_IP	D_LN	D_W	CD_FD	CD_FT	CD_IP	CD_LN	CD_W	U_FD	U_FT	U_IP	U_LN	U_W	W_FD	W_FT	W_IP	W_LN	W_W	Acres (Composite)	Difference
309	503709.316	11.56																						9.39	0.81	1.36												11.56	0.00
310.1	1834903.893	42.12		3.21	0.15	0.16	0.06												6.65	0.09	0.00	0.24		30.27	0.53	0.76												42.12	0.00
310.2	181408.568	4.16																	0.68					3.26	0.22												4.16	0.00
310.3	184386.687	4.23																						2.03	0.43	1.77												4.23	0.00
311	11173387.077	256.51		0.15	0.30	0.50								25.36	2.85	3.13	0.02	1.92	58.61	4.92	2.16	0.31	1.16	129.19	10.60	13.43	0.58							1.28		0.03		256.51	0.00
312	599701.631	13.77																	2.88	0.09	0.30			7.44	0.58	2.47												13.77	0.00
313	177687.326	4.08																						0.53	1.15	1.42			0.12	0.45	0.41							4.08	0.00
314	108641.722	2.49																						0.62	0.55	1.33												2.49	0.00
315	87453.506	2.01																							0.29	0.62				0.67	0.43							2.01	0.00
317	40609.859	0.93																							0.16	0.02				0.38	0.38							0.93	0.00
318.1	170411.219	3.91																	0.52	0.15	0.33			1.75	0.90	0.26												3.91	0.00
318.2	116354.412	2.67																						0.71	1.58	0.39												2.67	0.00
319	44293.885	1.02																						0.12	0.28	0.54				0.06	0.02							1.02	0.00
320	322580.249	7.41																						0.30	0.59	0.73			0.11	2.62	3.07							7.41	0.00
321	71192.935	1.63																						0.60	0.69	0.34												1.63	0.00
324.1	3464915.371	79.54											0.01	15.62	1.38	2.25	0.57						5.34	43.33	3.76	7.27												79.54	0.00
324.2	455089.295	10.45																						6.18	4.27													10.45	0.00
324.3	941210.941	21.61												6.18	0.37	0.39								10.69	1.63	2.33												21.61	0.00
324.4	212042.794	4.87												0.38										1.99	0.78	1.72												4.87	0.00
324.5	62279.819	1.43																						0.72	0.31	0.40												1.43	0.00
325	348967.567	8.01												0.59	0.49	0.45								1.78	1.92	2.72				0.04	0.04							8.01	0.00
326	51680.957	1.19													0.04	0.06								0.14	0.48	0.47												1.19	0.00
327.1	190530.678	4.37																						0.86	3.38	0.13												4.37	0.00
327.2	1570815.001	36.06											0.71	4.74	0.10			0.49	4.31				0.16	19.63	3.65	2.25												36.06	0.00
327.3	165145.841	3.79													0.00								0.22	3.42	0.15												3.79	0.00
327.4	2574263.471	59.10																0.11	21.82	1.05	0.09		1.74	27.88	4.95	1.46												59.10	0.00
328	334866.284	7.69																						7.68	0.00													7.69	0.00
329	104047.529	2.39																						0.25	1.06	0.84				0.01	0.23							2.39	0.00
330	211434.213	4.85												1.11	0.50	0.68								0.30	0.83	1.44												4.85	0.00
331	223737.740	5.14												1.46	0.82	0.09								0.85	0.78	1.13												5.14	0.00
332	54471.721	1.25																						0.45	0.44	0.36												1.25	0.00
333.1	208242.504	4.78																						1.01	2.08	1.70												4.78	0.00
333.2	170773.236	3.92																						0.96	1.73	1.23												3.92	0.00
334	90912.803	2.09																						1.35	0.33	0.41												2.09	0.00
335	448101.370	10.29																						4.71	2.85	2.54	0.19											10.29	0.00
336	162710.411	3.74																						0.52	1.05	1.86			0.00	0.00	0.29							3.74	0.00
337	5540408.551	127.19																	34.40	5.10	1.81	1.33		55.41	8.37	6.42			0.63	9.17	2.84	0.01		0.85			0.83	127.19	0.00
338	587375.779	13.48												4.89	2.10	2.78								0.45	1.20	2.06												13.48	0.00
339	116359.417	2.67																						2.02	0.16	0.50												2.67	0.00
340.1	94362.160	2.17																						0.17	1.02	0.97												2.17	0.00
340.2	456690.990	10.48																						6.01	0.95	3.53												10.48	0.00
341	2580027.153	59.23											1.52	0.56	0.43		0.44	0.02	19.14	0.22	0.06		3.99	29.06	2.47	1.32												59.23	0.00
342	96559.586	2.22																						1.31	0.46	0.44												2.22	0.00
343	504006.295	11.57																		0.01	0.11			4.49	3.45	3.51												11.57	0.00
344	299870.275	6.88																						6.25	0.24	0.40												6.88	0.00
345	123095.478	2.83																						1.59	0.26	0.98												2.83	0.00
346	48124.536	1.10																						0.09	0.35	0.67												1.10	0.00
347	140780.863	3.23																						1.45	0.91	0.87												3.23	0.00
348	480394.837	11.03																						7.13	1.24	2.67												11.03	0.00
349	370499.236	8.51																						5.20	1.31	1.99												8.51	0.00
350	348889.027	8.01												1.49	0.50	1.06				0.03	0.33			0.57	1.35	2.59				0.02	0.08				0.00			8.01	0.00
351	1323345.879	30.38																	3.34		0.17			15.16	2.75	8.96												30.38	0.00
353	133937.623	3.07																						1.10	0.77	1.21												3.07	0.00
354	830003.389	19.05																	5.74					9.72	1.69	1.90												19.05	0.00
355	146287.662	3.36												0.04	0.35	1.12								0.31	0.30	1.24												3.36	0.00
356	683008.372	15.68																	1.20			0.06		12.82	0.37	1.09	0.13											15.68	0.00
357.1	4916754.695	112.87																	30.73		0.02	1.76		68.48	3.89	7.48	0.52											112.87	0.00
357.2	212381.903	4.88																						2.18	1.00	1.70												4.88	0.00
358	1447231.334	33.22												7.19	0.63	2.15	0.11		5.10	0.05	0.22			14.60	1.09	1.95	0.13											33.22	0.00
359	38621.243	0.89												0.13	0.23	0.06								0.36	0.09	0.04												0.89	0.00
360	510965.379	11.73																						11.49	0.16	0.08												11.73	0.00
361.1	438163.663	10.01																						7.34	0.88	1.79												10.01	0.00
361.2	108389.925	2.49												0.16	0.08	0.00								1.04	0.52	0.68												2.49	0.00
362	860591.357	19.76																0.04	4.89	0.14	0.20	0.05	0.02	9.92	2.07	2.42												19.76	0.00
363	260590.804	5.98																	0.45	0.08				4.54	0.44	0.47												5.98	0.00
364.1	71694.099	1.65																						1.53	0.04	0.08												1.65	0.00
364.2	43227.029	0.99																						0.45	0.16	0.38												0.99	0.00
365	63267.615	1.45																						1.20	0.16	0.10												1.45	0.00
366	106129.467	2.44												0.45	0.26	0.40								0.69	0.17	0.47												2.44	0.00
367	69062.643	1.59												0.78	0.15	0.10								0.15	0.08	0.32												1.59	0.00
368	792514.065	18.19																						14.45	1.44	2.30												18.19	0.00
369	448002.624	10.28											0.01	1.29	0.34	0.20							0.19	4.46	2.03	1.78												10.28	0.00
370	169135.607	3.88																						1.57	1.23	1.08												3.88	0.00
371.1	72477.060	1.66																						0.33	0.67	0.67												1.66	0.00
371.2	206789.530	4.75																			0.04			1.04	0.75	2.91												4.75	0.00
371.3	138387.951	3.18																						0.94	0.99	1.25												3.18	0.00
371.4	262943.732	6.04																	0.00	0.00	0.13			2.72	0.89	2.19								0.02	0.02	0.07		6.04	0.00
372	649763.484	14.92												1.01	0.54	1.74								7.39	1.41	2.83												14.92	0.00
373	1064849.988	24.45																	3.23					21.21														24.45	0.00
374	43142.102	0.99																						0.06	0.29	0.64												0.99	0.00
375	514553.037	11.81																	2.10	0.46	0.70			6.77	0.94	0.84												11.81	0.00
376	834958.952	19.17												1.17	1.11	4.16			0.01		0.86			2.30	2.58	5.68	0.31							0.16	0.05	0.43	0.35	19.17	0.00
377	287136.543	6.59												2.10	0.50	0.79				0.08	1.67	0.01		0.11	0.28	0.83										0.17	0.03	6.59	0.00
378	700466.435	16.08												0.56	0.04				3.46	0.08	0.16			6.43	2.78	2.55												16.08	0.00
379	75206.276	1.73																						1.48	0.24													1.73	0.00
380	255151.540	5.86												0.90	0.22									3.18	1.39	0.17												5.86	0.00

Subareas	Shape_Area	Acres (Subarea)	A_FD	A_FT	A_IP	A_LN	A_W	B_FD	B_FT	B_IP	B_LN	B_W	C_FD	C_FT	C_IP	C_LN	C_W	D_FD	D_FT	D_IP	D_LN	D_W	CD_FD	CD_FT	CD_IP	CD_LN	CD_W	U_FD	U_FT	U_IP	U_LN	U_W	W_FD	W_FT	W_IP	W_LN	W_W	Acres (Composite)	Difference
381	419762.922	9.64												0.42	0.24	1.09			0.24	0.02	1.42	0.04		2.91	1.14	1.76	0.02							0.03		0.24	0.08	9.64	0.00
382	438193.938	10.06																						6.35	1.46	1.99	0.08							0.11			0.07	10.06	0.00
383	289500.222	6.65																	0.13		0.42	0.01		2.72	0.23	3.15	0.00							0.00				6.65	0.00
384	158048.932	3.63																					0.95	0.44	0.67	1.57												3.63	0.00
385	833619.324	19.14											1.74	4.20	1.32	1.68								8.65	1.08	0.47												19.14	0.00
386	695429.952	15.96																	0.07		2.75	0.09		5.74	1.74	5.50	0.06								0.00		0.00	15.96	0.00
387	3731668.898	85.67																	32.27					53.27			0.13											85.67	0.00
388	11925595.157	273.77											0.06	28.06	0.14	0.51			88.97	0.18	0.22			139.84	6.10	10.61	0.01							0.07	0.00			273.77	0.00
389	1060555.698	24.35												1.47	1.11	0.77							3.66	14.03	2.07	0.91	0.01						0.00	0.26	0.00	0.01	0.05	24.35	0.00
390	1321477.880	30.34																						23.58	3.25	3.51												30.34	0.00
391	54983.572	1.26																	1.14					0.12														1.26	0.00
392	10206241.513	234.30							9.91				11.14	29.24	0.44		0.07	2.21	100.74	0.46			0.92	79.03			0.16												234.30	0.00
393	292515.854	6.72							1.80					0.10					1.78					3.04														6.72	0.00
394	212863.192	4.89							2.35										0.45					2.08														4.89	0.00
395	2373416.097	54.49							0.30					17.23					5.45					31.51														54.49	0.00
396	340291.830	7.81																	1.86	2.36	3.59																7.81	0.00
397	926465.261	21.27												6.49						0.01	0.02			14.42	0.00	0.33												21.27	0.00
398	1406342.475	32.29			1.44	1.91									0.08	0.08				2.62	0.42			3.54	5.98	13.51				2.00	0.08			0.01	0.01	0.60		32.29	0.00
		6734.49																																				6733.89	0.60