Martin County Engineering Department
Danforth Creek Stormwater Quality Retrofit
SFWMD Submittal



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November 2010

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DANFORTH CREEK
STORMWATER QUALITY RETROFIT
STORMWATER MANAGEMENT STUDY
MAY 2009

INTRODUCTION:

On August 18, 2008 CAPTEC Engineering was contracted by Martin County's Office of Water Quality to prepare a report for the analysis and recommendations for a Water Quality and Stormwater Management Retrofit Program to serve the Danforth Creek Basin in western Martin County. The following report includes analysis of the existing drainage basin after limited field reconnaissance, environmental review and modeling. Following coordination with regulatory agencies and preparation of preliminary design, the report provides potential stormwater improvement areas. The primary purpose of CAPTEC's study is to identify water quality deficiencies of the Danforth Creek watershed. After identifying the areas for which additional water quality should be provided, the study provides recommendations on the most cost effective improvements to eliminate the water quality treatment deficiencies within the basin and reduce the potential for flooding of the existing developments.

EXISTING CONDITIONS:

The location of the Danforth Creek Basin is shown on **Exhibit 1**. The overall basin boundary is depicted on **Exhibit 2** and contains approximately 3,847 acres of land area located within the Tidal St. Lucie Basin. This basin consists primarily of agricultural, residential, and commercial developments.

The Danforh Creek basin is bounded by I-95, Pentalago residential ranchette (SFWMD Permit # 43-00723-S-02), Fox Grove (Meadow Run), Hammock Creek South Basin (SFWMD Permit # 43-00825-S), Danforth Creek residential development (SFWMD Permit # 43-00391-S) to the south, the St. Lucie River or old Palm City residential development to the east, Martin Downs development (SFWMD Permit # 43-00201-S), Martin Highway (SR 714) to the north, and existing vacant land along Oakbrook Estates to the west. Primary conveyance through the basin is provided by Danforth Creek, which was at one time a natural drainage feature of the area, but has been substantially

altered by the construction of surrounding developments. There are several lateral ditches that collect runoff from surrounding sub-basins (see **Exhibits 3, 3A-3D**) and convey it to Danforth Creek. There are 16 culverts or road crossings (DAN-1 to Dan-16) in different locations along Danforth Creek between Boat Ramp Road at the upstream end of the creek and Martin Downs Boulevard at the downstream end prior to discharging into the St. Lucie River. **Exhibit 4** depicts the SCS soil survey for the basin.

LEVEL OF SERVICE / WATER QUALITY CRITERIA

Martin County has established a Level of Service (LOS) criteria for drainage systems within its Comprehensive Plan. The LOS for stormwater conveyance systems represent the capacity provided for various development features. They are expressed in terms of storm events to be accommodated by the applicable drainage conveyance facilities. Acceptable LOS are:

- **10-Year Storm Event** – No street flooding, all stormwater will be contained within the banks of the canals and will be below roadway centerlines.

- **25-Year Storm Event** – Some street flooding acceptable during 72 hour design storm. Typically, the major canals within Martin County will maintain the 25-year, 24-hour storm event within their banks.

- **100-Year Storm Event** – No structure / home flooding.

- **Water Quality Criteria** - The SFWMD has set a Water Quality Criteria standard for drainage systems within developments. This requires that the initial rainfall runoff that collects water impurities, such as sediments, oils and greases, be retained prior to discharge into an outfall system. In general, the SFWMD standard is to retain a volume of stormwater which is the greater of the first one-inch of runoff from the entire site or 2.5-inches that falls on the impervious portion of the site. The Martin County Water Quality Criteria is more stringent than SFWMD, however, Martin County will meet SFWMD criteria for a large portion of the basin in this retrofit improvement project.

STORMWATER QUALITY DEFICIENCIES

The Danforth Creek basin has experienced several water-resource-related problems. Individually constructed, low-density residential development (1 unit per 5 or 10 acres) has been replacing pine flatwoods in upstream portions of the Danforth Creek basin. Although SFWMD surface water permitting is required for planned residential developments, it does not apply to individually constructed single family residences in the once agricultural rural areas. An approximate breakdown of the Land Uses within the basin area is summarized as follows:

Land Use Category	Area
Residential/Institutional Development:	1,095 Acres
Commercial/Industrial *Agricultural/Others	2,752 acres
Total:	**3,847 Acres**

*low density residential land is included in this category

The areas in which water quality is currently not being provided are depicted in **Exhibit 5**. In general, approximately 2870 total acres within the basin areas (Basin 1 thru 18, 19&21) located upstream of Sunset Trail culverts are deficient in water quality treatment. However, this includes a significant amount of areas that are either wetlands, agricultural area, creek or ditches and developed areas with surface water management system without SFWMD permits. As such, actual water quality deficient area could be further reduced to approximately 2,296 acres. It is estimated that total water quality deficiencies for 2,296 acres of developed land within the Danforth Creek basin total approximately 191 acre - feet.

BASIN BOUNDARY AND DISCHARGES

The 3,847-acre overall basin boundary for Danforth Creek is shown on **Exhibit 2**. The basin boundary and sub-basin boundaries were defined by researching SFWMD permit files, reviewing contour maps and making on-site field observations. A map of these sub-basins is presented in the Danforth Creek Sub-Basin Boundaries **Exhibit 3** and further detailed in **Exhibits 3a, 3b, 3c, and 3d**.

The sub-basin discharges were calculated using SFWMD and Soil Conservation Service (SCS) criteria for undeveloped and unpermitted areas. Utilizing a peak tail water elevation at the Martin Downs Boulevard Bridge crossing of 8.0 NGVD, the existing peak discharge at this structure was calculated to be 1180 cfs for the 25-year, 72-hour storm event. This high peak discharge rate is due to the lack of water quality and attenuation facilities provided within the basin. According to the previous basin study submitted to FEMA, peak flows through Martin Downs Boulevard Bridge is 1396 cfs for a 100 year storm event. Our existing ICPR Model (attached) indicates the peak discharge through Martin Downs Boulevard Bridge is 1339 cfs for a 100 year 3 day design storm event.

MODELING

To perform the hydraulic analyses for this study, computer models were developed which calculated a runoff hydrograph from each sub-basin and routes it through ditches, culverts, detention systems, and control structures to their outfalls. The model used for this study is the Interconnected Channel and Pond Routing Model (ICPR) Version 3.10. This model was selected because the branched and interconnected canal conditions of the study areas could be well represented in the channel and culvert routing functions.

Stage area estimates were made for each segment utilizing topographical information of the area provided by Martin County. This information was utilized in the ICPR model to determine stage-storage volumes and stormwater runoff attenuation characteristics.

CAPTEC performed computer model runs for various storm events for the existing and proposed system. The 10 year – 24 hour storm event (6.6 inches) was utilized to verify the level of service for the roadways. The 25 year – 72 hour storm (11.0 inches) event was modeled to determine discharge conditions for permitting purposes. The 100 year – 72 hour storm (13.0 inches) event was modeled to verify that flooding of the existing homes would not occur.

The model was calibrated against the information previously published in Federal Emergency Management Agency (FEMA) Flood Insurance Study for Martin County, Florida and Incorporated Areas (October 4, 2002), the existing SFWMD District Environmental Resource Permits for developments within the area and the reports of roadway flooding from the Martin County Engineering Field Operations Division. An additional calibration was conducted for Tropical Storm Fay utilizing recorded rainfall data collected at Node D08-MARTIN HY-UP. This model run is illustrated on **Exhibit 8**.

EXISTING SYSTEM MODELING RESULTS

The existing ICPR model developed by CAPTEC Engineering for the Danforth Creek basin analyzed Danforth Creek from its upper end (the location of DAN-16 culvert) down to the bridge crossing at Mapp Road. Peak tail water elevations of 6.00, 8.00, and 9.00 feet NGVD at Martin Downs were utilized for 10 year, 25 year, and 100 year storm events respectively based on existing FEMA Flood Insurance Study of Martin County, prepared in 1992 for Danforth Creek. CAPTEC Engineering utilized data available from "Flood Routing Model Development for Bessey and Danforth Creek Basin" by LBFH, Inc., "Basin Study of the Bessy and Danforth Creek System" by SFWMD, Danforth Creek Basin Study by Taylor Engineering prepared for FEMA, existing GIS data from Martin County, and existing SFWMD permits for various sub-basins of Danforth Creek system. The previously modeled connection to the Bessey Creek Basin was not included within this study, as this provided an additional, unpermitted discharge point from the Danforth Basin whereby it was discovered that a 24" CMP culvert connection would severely limit flows between the basins.

ICPR model results for the different design storm events (10-year, 25-year, and 100-year) for the existing conditions of the main canal are included in this report for reference and are shown in **Exhibit 8** as the existing flood profiles. The 100 year flood profiles previously developed for FEMA are also shown in **Exhibit 8**. The ICPR model results are generally consistent with FEMA flood profiles with the exception of a few locations where the FEMA profile shows significantly higher stages.

The results are briefly summarized below.

A. **10-year, 24-hour event:** Based on the proposed ICPR model, the existing culverts (DAN-16 thru DAN-3) experience full flow conditions for this storm event. The existing ground or roadway elevations at these culverts as provided to FEMA indicate that they do not overtop. The model results indicated that the flows in between culverts may not be contained within the top of bank. Therefore, other local sub-basins may experience flood conditions depending on the existing ground elevations.

B. **25-year, 72-hour event:** Based on the proposed ICPR model, all of the existing culverts (DAN-16 thru DAN 1) including Martin Downs Bridge will experience full flow conditions. Model results indicate roadway overtopping will occur on SW High Meadows Avenue, SW Leighton Farm Avenue, SW 42ND Avenue, and the locations of DAN-9, 10, 12, 13, 14, 15, and 16. Again, the local sub-basins will experience flood conditions depending on existing ground and the predicted storm stages. In addition, the Danforth Creek top of bank will overtop in several areas, depending on the existing top of bank elevations.

C. **100-year, 72-hour event:** All of the existing culverts including Martin Down Bridge will experience full flow conditions. The proposed ICPR model results indicate roadway overtopping will occur on SW High Meadows Avenue, SW Leighton Farm Avenue, SW 42 ND Avenue, and locations of DAN-9, 10, 12, 13, 14, 15, and 16. The existing canal banks overflow and road flooding occurs throughout the basin. House flooding may occur in several locations particularly in Basin 13 & 14 depending on the actual finished floor elevations and proximity

to the Danforth Creek which is consistent with historical accounts within the area and reports from Red Cross Flood Complaints. There are also existing resident flood complaints within Danforth Creek Residential Development (SFWMD Permit # 43-00391-S) which has an emergency outfall structure to Danforth Creek.

RECOMMENDED IMPROVEMENTS

As previously described, the existing developments within the basin have limited land available to provide additional stormwater storage and water quality treatment volume. Therefore, the acquisition of additional land for stormwater detention and treatment will be necessary. CAPTEC researched general and specific solutions within the Danforth Creek Basin to provide additional water quality for the developed areas and analyzed the basin to reduce localized stormwater flooding. The general contours of the land are illustrated on the USGS map for the basin as depicted in **Exhibit 6**. Several improvement options were analyzed and the County has acquired land to proceed with one such option. The improvements were then modeled to verify that there would be no negative impacts to the surrounding areas within the basin. The following is a summary of the recommended improvement chosen by the County to provide additional water quality treatment volume and storm water attenuation.

Stormwater Treatment Area 5:

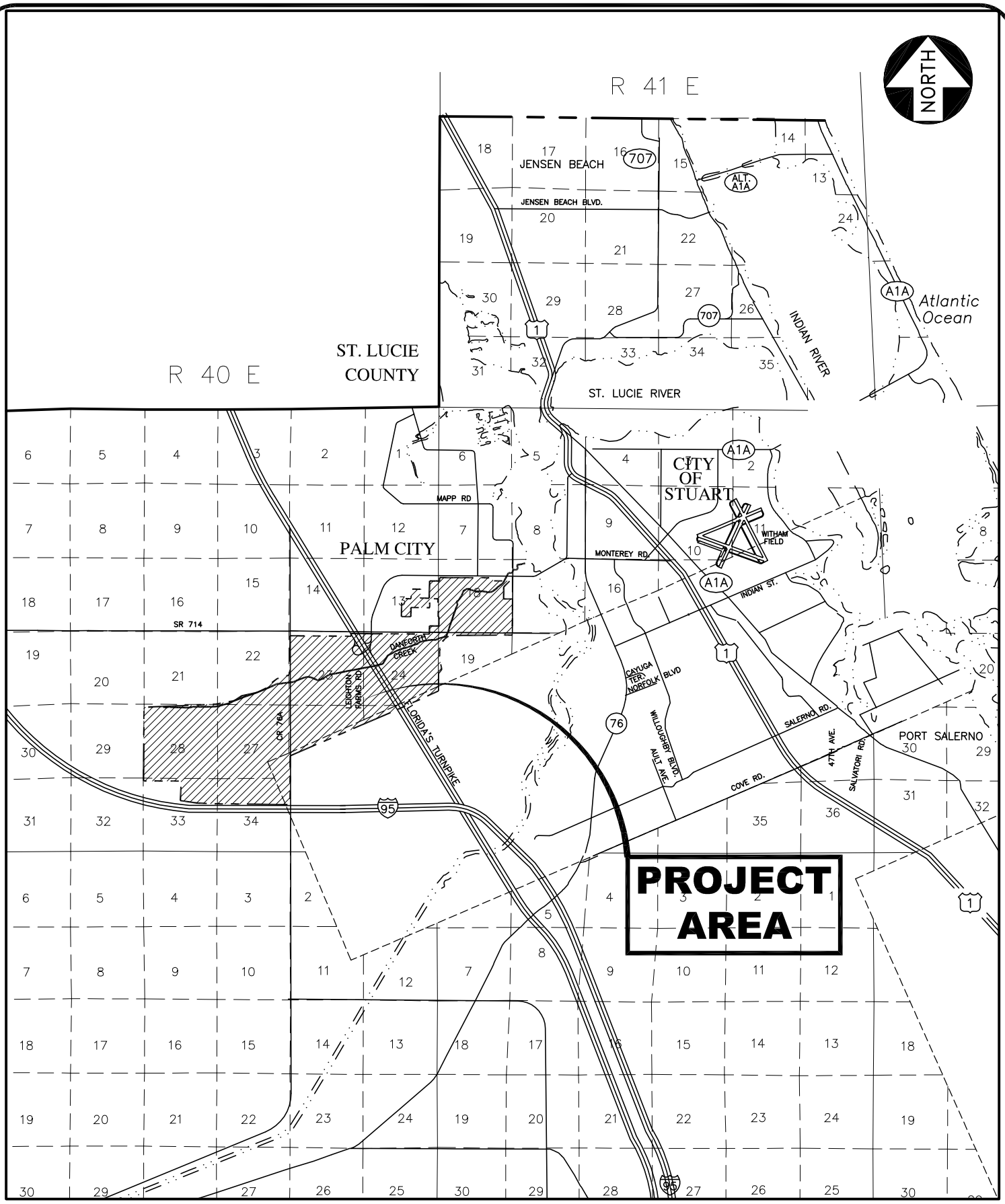
CAPTEC recommends that 10.70 acres (at control elevation 13.00 NGVD) of Stormwater Treatment Area (STA) be constructed within approximately 36 acres of existing vacant or agricultural land located just north of existing Humane Society of Treasure Coast (SFWMD Permit # 43-00700-S) development. Danforth Creek runs through this site and the nearest downstream culvert is located at SW Leighton Farm Avenue. The proposed STA will provide water quality treatment volume and stormwater attenuation. The proposed weir crest elevation is 16.00 NGVD and the control elevation is 13.00 NGVD. Total proposed water quality treatment volume within STA 5 is 27.2 ac-ft.

DANFORTH CREEK
STORM WATER QUALITY RETROFIT

EXHIBITS

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DATE:	12-12-08
DRAWN BY:	
DESIGNED BY:	
CHECKED BY:	JWC
PROJECT No.:	1207.2
HORZ. SCALE:	N.T.S.
VERT. SCALE:	N.T.S.
CADD FILE:	

DANFORTH CREEK STORMWATER QUALITY RETROFIT

MARTIN COUNTY, FLORIDA

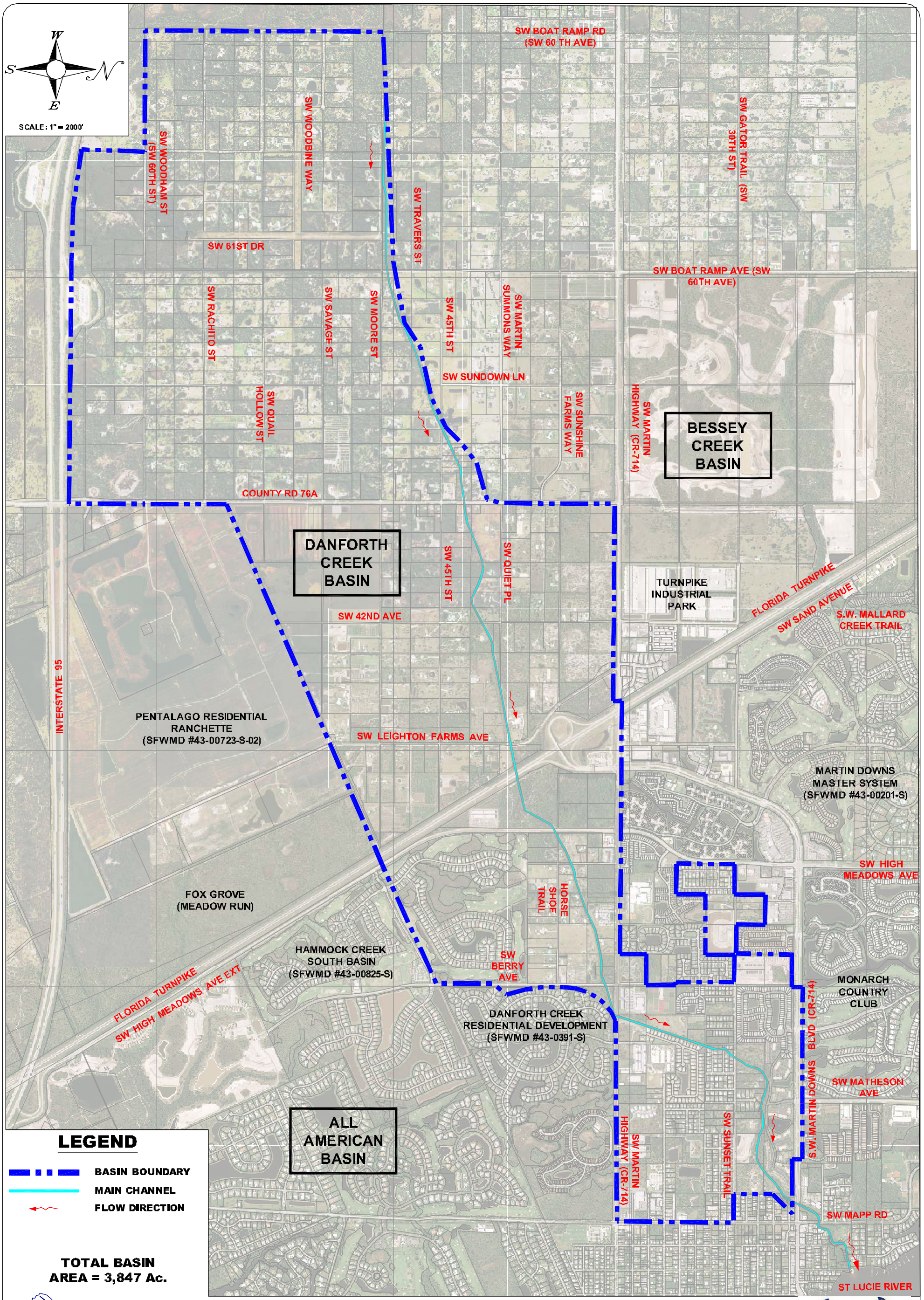
EXHIBIT 1 VICINITY MAP

S-13, 22, 23, 27, 28, 33, 34 & T-38 S., R-40 E.
S-18 & 19 T-38 S., R-41 E.

SCALE VERIFICATION

0 ——— 0.5

SOLID BAR IS EQUAL TO HALF AN INCH ON ORIGINAL DRAWING, ADJUST ALL SCALED DIMENSIONS ACCORDINGLY



LEGEND

- BASIN BOUNDARY
- MAIN CHANNEL
- FLOW DIRECTION

TOTAL BASIN AREA = 3,847 Ac.

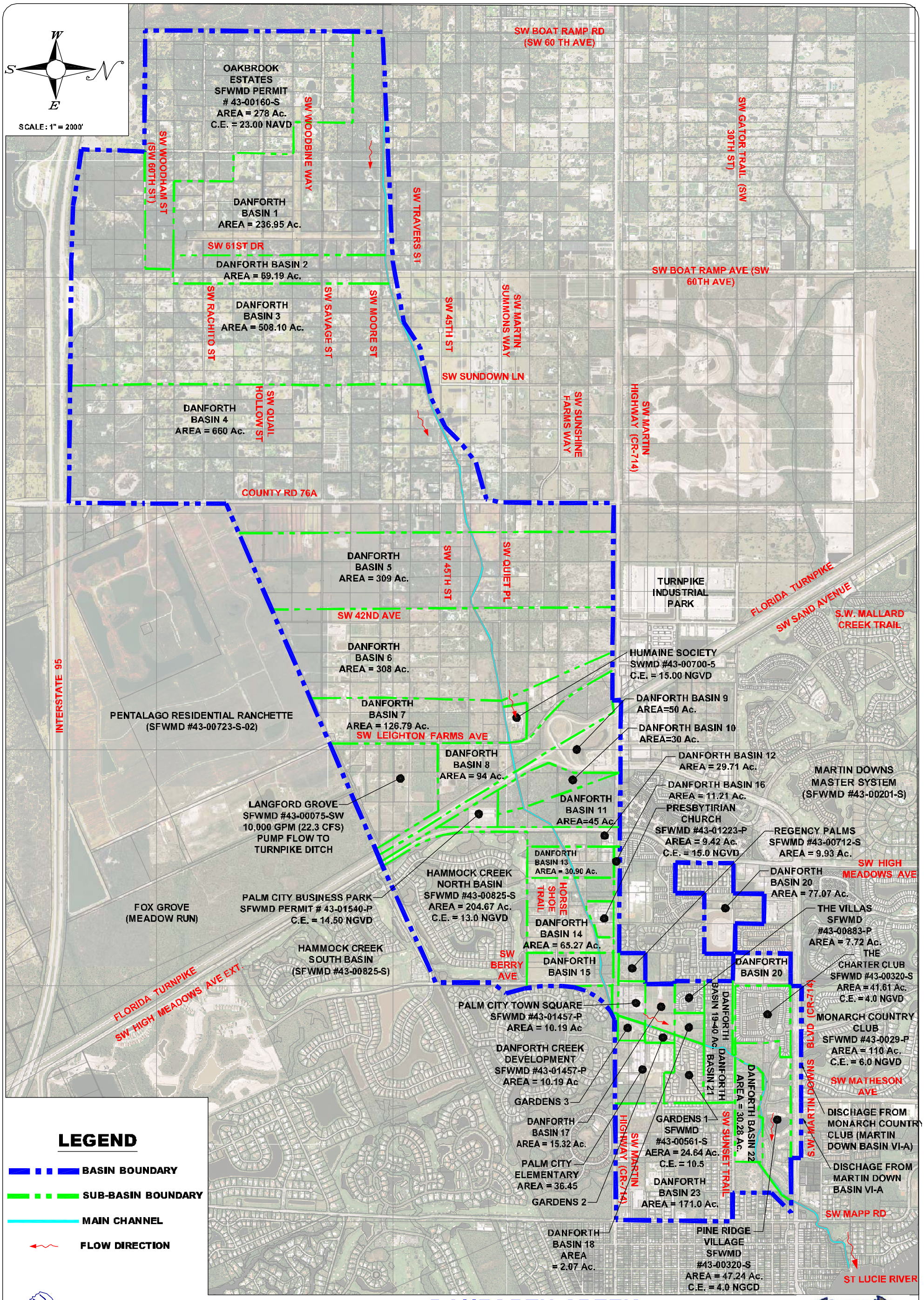
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DANFORTH CREEK OVERALL BASIN MAP
Exhibit 2

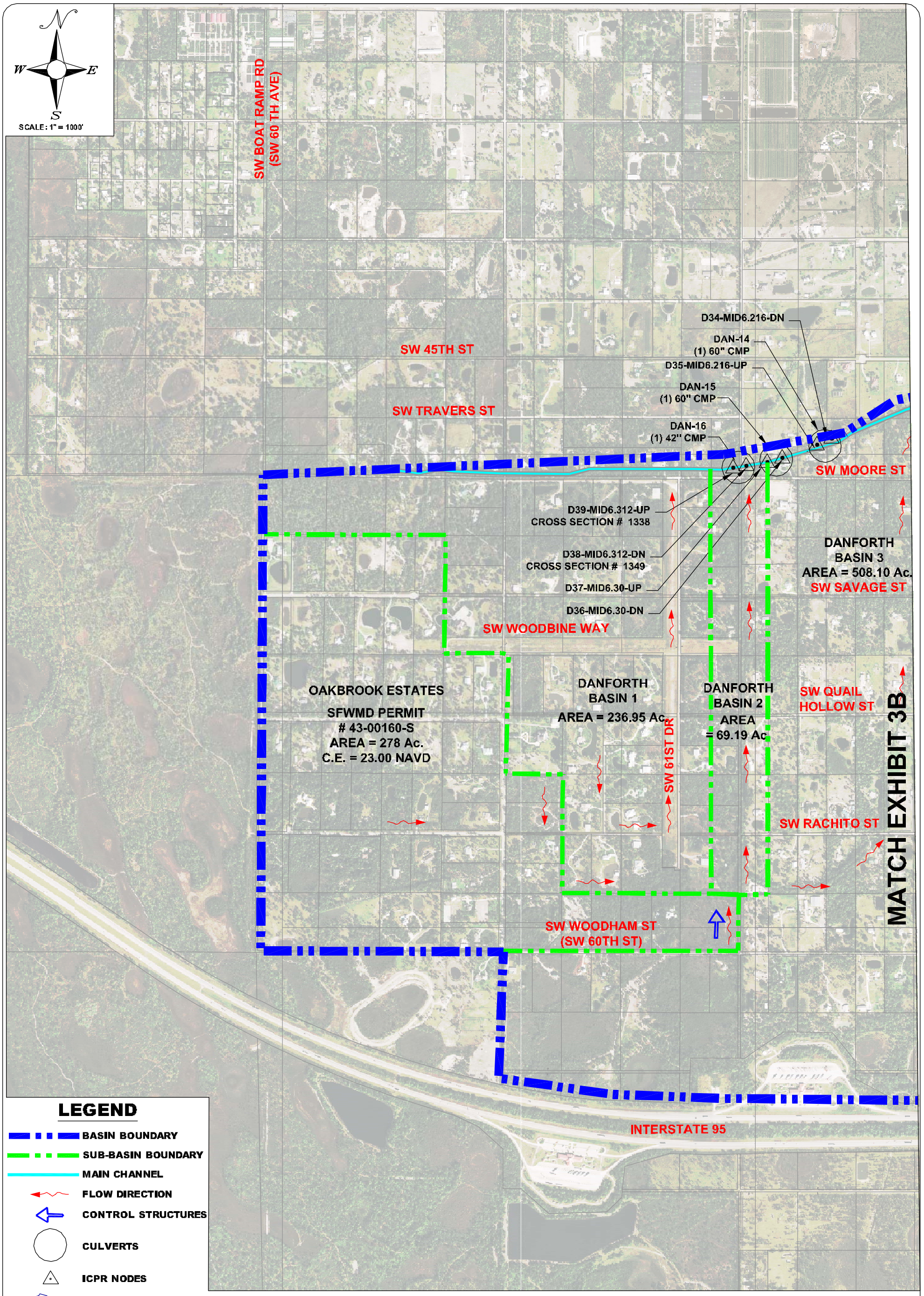
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DANFORTH CREEK BASIN AND SUB - BASIN BOUNDARIES

Exhibit 3



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DANFORTH CREEK
SUB-BASIN BOUNDARIES
Exhibit 3A

COUNTY OF MARTIN · STATE OF FLORIDA

N
W
E
S
SCALE: 1" = 1000'

SW SUNSHINE FARMS WAY
SW MARTIN SUMMONS WAY
SW SUNDOWN LN
SW MOORE ST
SW SAVAGE ST
SW QUAIL HOLLOW ST
SW RACHITO ST
COUNTY RD 76A
42 ND AVENUE
SW 42ND AVE
SW QUIET PL
SW HONEY TER
SW LEIGHTON FARMS AVE
TURNPIKE

D26-MID5.435-UP
D26-MID5.435-DN
DAN-09
(1) 74.4 x 63.6" CMP
DAN-10
(1) 72" x 60" CMP
DAN-12
(1) 72" x 61.2"
CMP
D27-MID5.47-DN
D28-MID5.47-UP
D29-MID5.558-DN
D30-MID5.558-UP
D31-MID5.585-DN
DAN-13
(1) 72" DIA CMP
D32-MID5.585-UP
D33-MID-OUTFALL

D20-42ND AVE-DN
DAN-07
(3) 72" x 96"
CONC. BOX
D21-42ND AVE-UP
DAN-08
(2) 72" x 84"
CONC. BOX
D22-MID-4.99
D23-SR76A-DN
CROSS SECTION # 1154
D24-SR76A-UP
CROSS SECTION # 1141
D19-MID-4.58

HUMAINE
SOCIETY SWMD
#43-00700-5
C.E. = 15.00 NGVD

DAN-06
(3) 72" x 84"
CONC. BOX
D18-LEIGHTON-UP
CROSS SECTION CS # 1033
D17-LEIGHTON-DN
CROSS SECTION # 1043

DANFORTH
BASIN 8
AREA
= 501 Ac.

DANFORTH
BASIN 5
AREA = 309 Ac.

DANFORTH
BASIN 6
AREA = 308 Ac.

DANFORTH
BASIN 7
AREA
= 126.79 Ac.

DANFORTH
BASIN 3
AREA = 508.10 Ac.

DANFORTH
BASIN 4
AREA = 660 Ac.

MATCH EXHIBIT 3A
MATCH EXHIBIT 3C

PENTALAGO RESIDENTIAL
RANCHETTE
(SFWMD #43-00723-S-02)

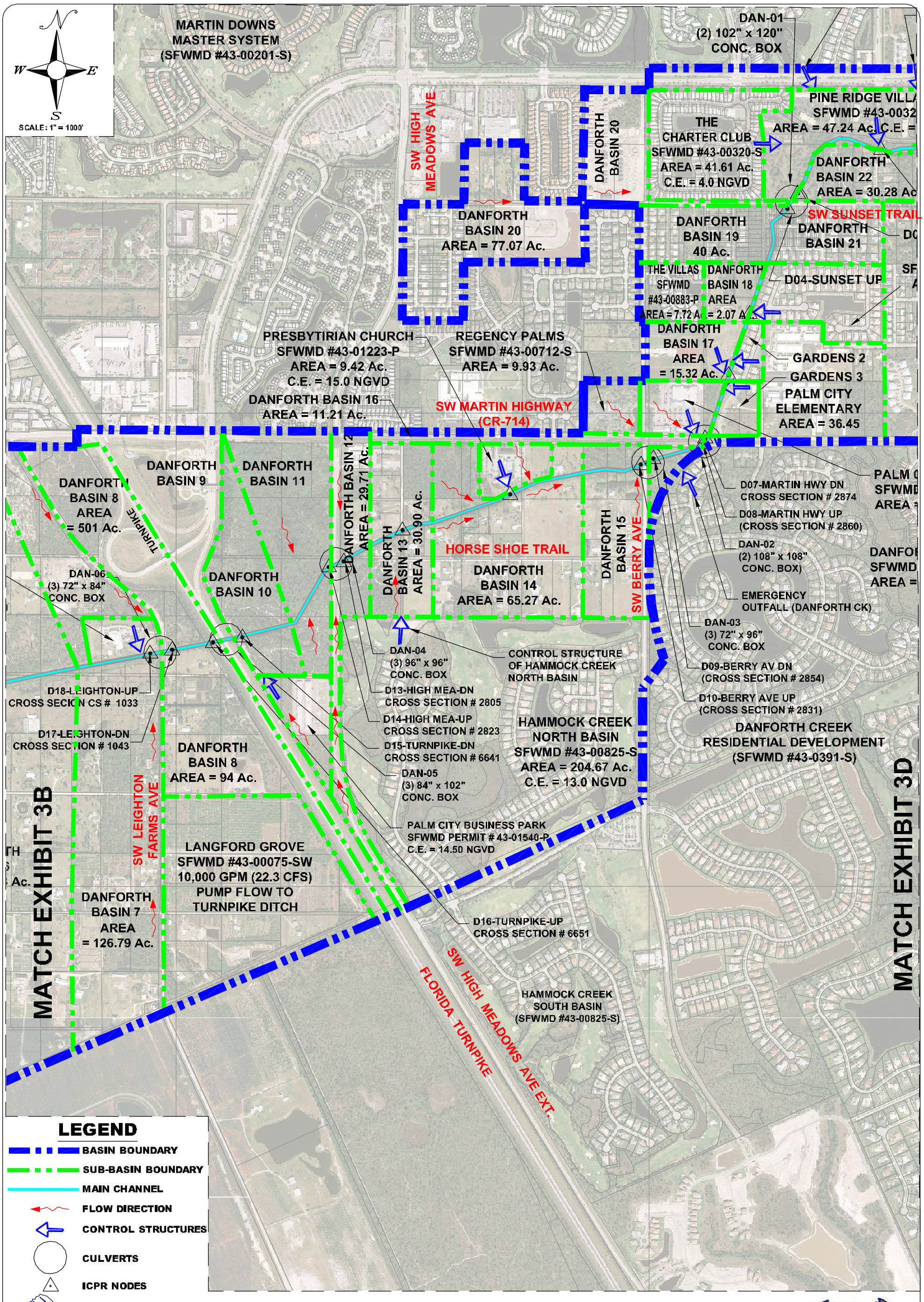
INTERSTATE 95

LEGEND
BASIN BOUNDARY
SUB-BASIN BOUNDARY
MAIN CHANNEL
FLOW DIRECTION
CONTROL STRUCTURES
CULVERTS
ICPR NODES

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DANFORTH CREEK
SUB-BASIN BOUNDARIES
Exhibit 3B

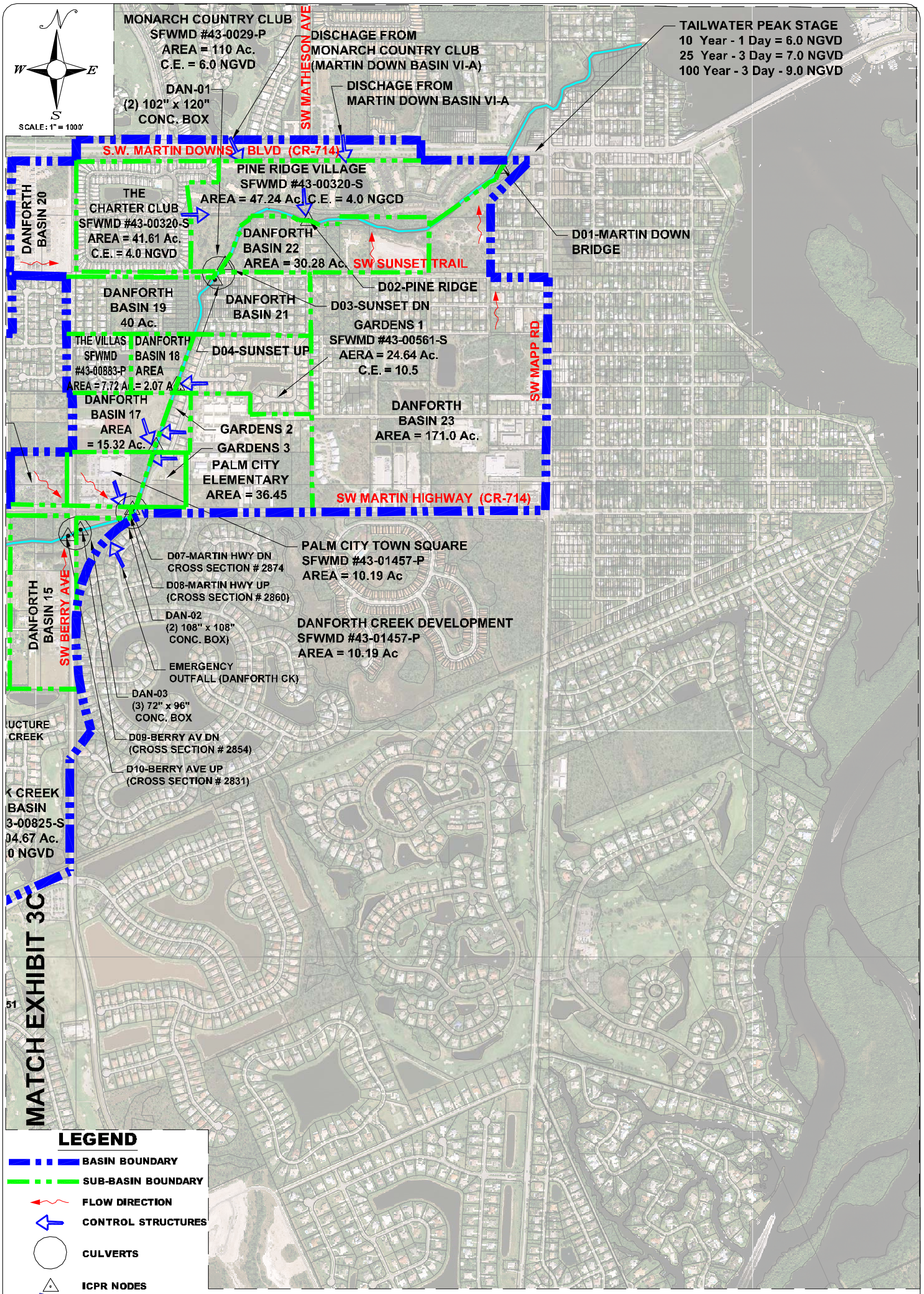
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DANFORTH CREEK
SUB-BASIN BOUNDARIES
Exhibit 3C

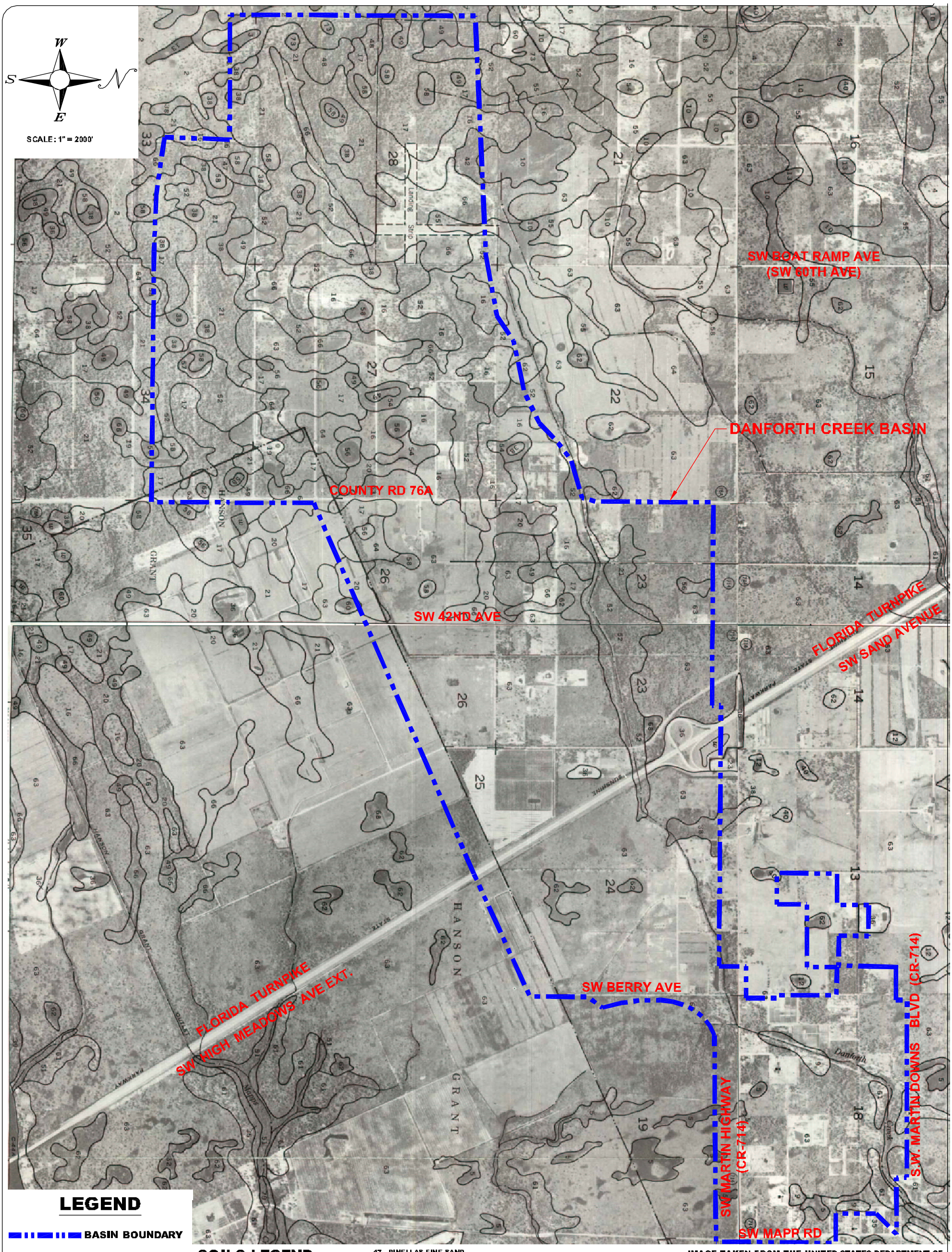
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DANFORTH CREEK
SUB-BASIN BOUNDARIES
Exhibit 3D

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LEGEND

BASIN BOUNDARY

SOILS LEGEND

- 3 - LAWNWOOD FINE SAND, DEPRESSIONAL
- 5 - WAVEKAND SAND, DEPRESSIONAL
- 6 - PAOLA SAND, 0 TO 8 PERCENT SLOPE
- 9 - POMELLO FINE SAND, DEPRESSIONAL
- 16 - OLDSMAR FINE SAND
- 17 - WABASSO SAND
- 20 - RIVIERA FINE SAND
- 21 - PINEDA SAND
- 38 - FLORIDANA FINE SAND, DEPRESSIONAL
- 42 - HALLENDALE SAND
- 47 - PINELLAS FINE SAND
- 48 - JUPITER SAND
- 49 - RIVIERA FINE SAND, DEPRESSIONAL
- 52 - MALABAR SAND
- 54 - OLDSMARE FINE SAND, DEPRESSIONAL
- 55 - BASINGER FINE SAND
- 56 - WABASSO SAND, DEPRESSIONAL
- 57 - CHOBEE LOAMY SAND
- 61 - HOBE FINE SAND, 0 TO 8 PERCENT SLOPE
- 62 - NETTLES SAND, DEPRESSIONAL
- 63 - NETTLES SAND
- 64 - EAUGALLE FINE SAND
- 71 - CANOVA VARIANT MUCK

IMAGE TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE SOIL SURVEY OF MARTIN COUNTY - MAP SHEET #7, 8, 9, 14, 15 & 16.

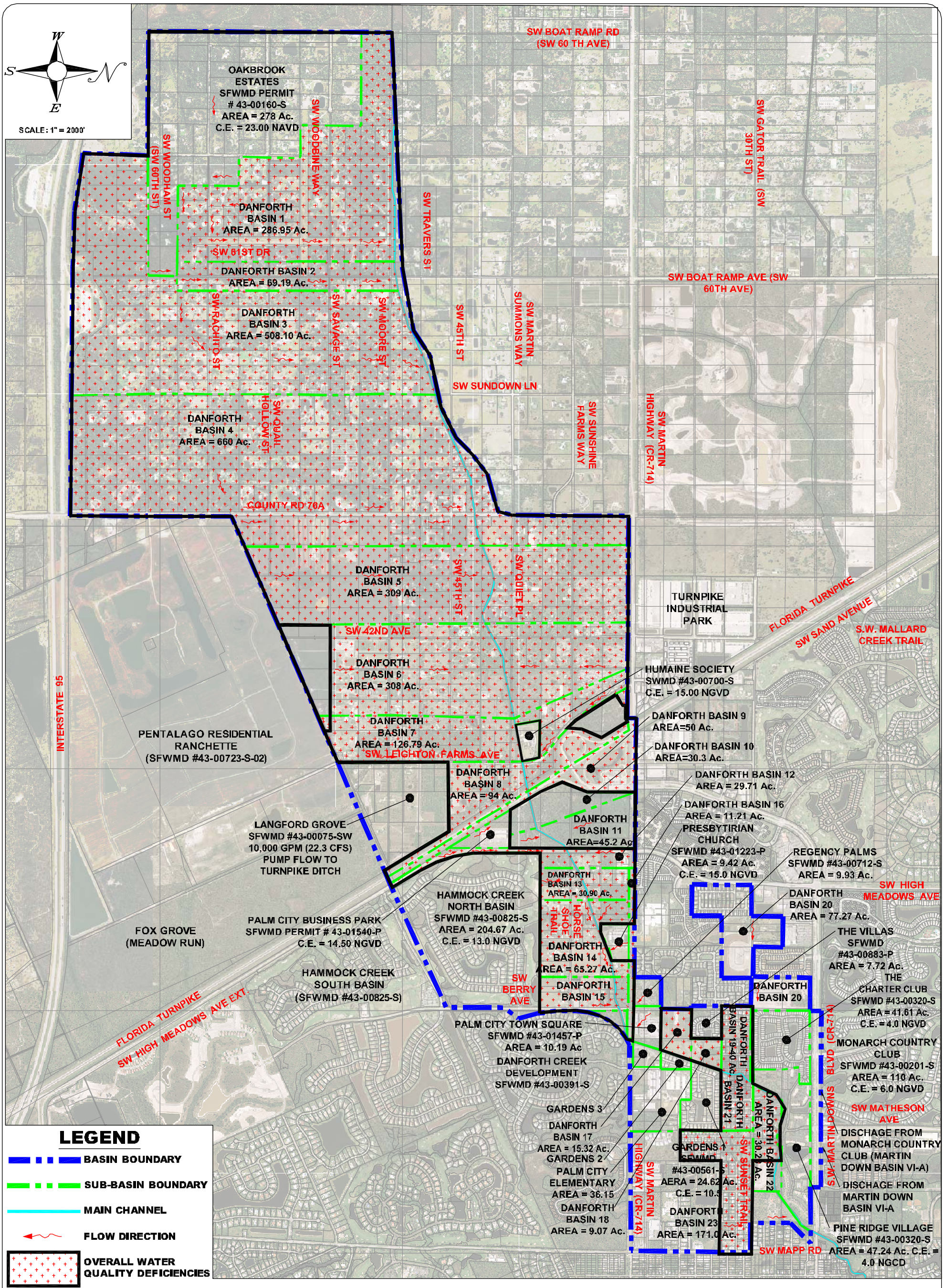
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DANFORTH CREEK
SCS SOIL SURVEY
Exhibit 4

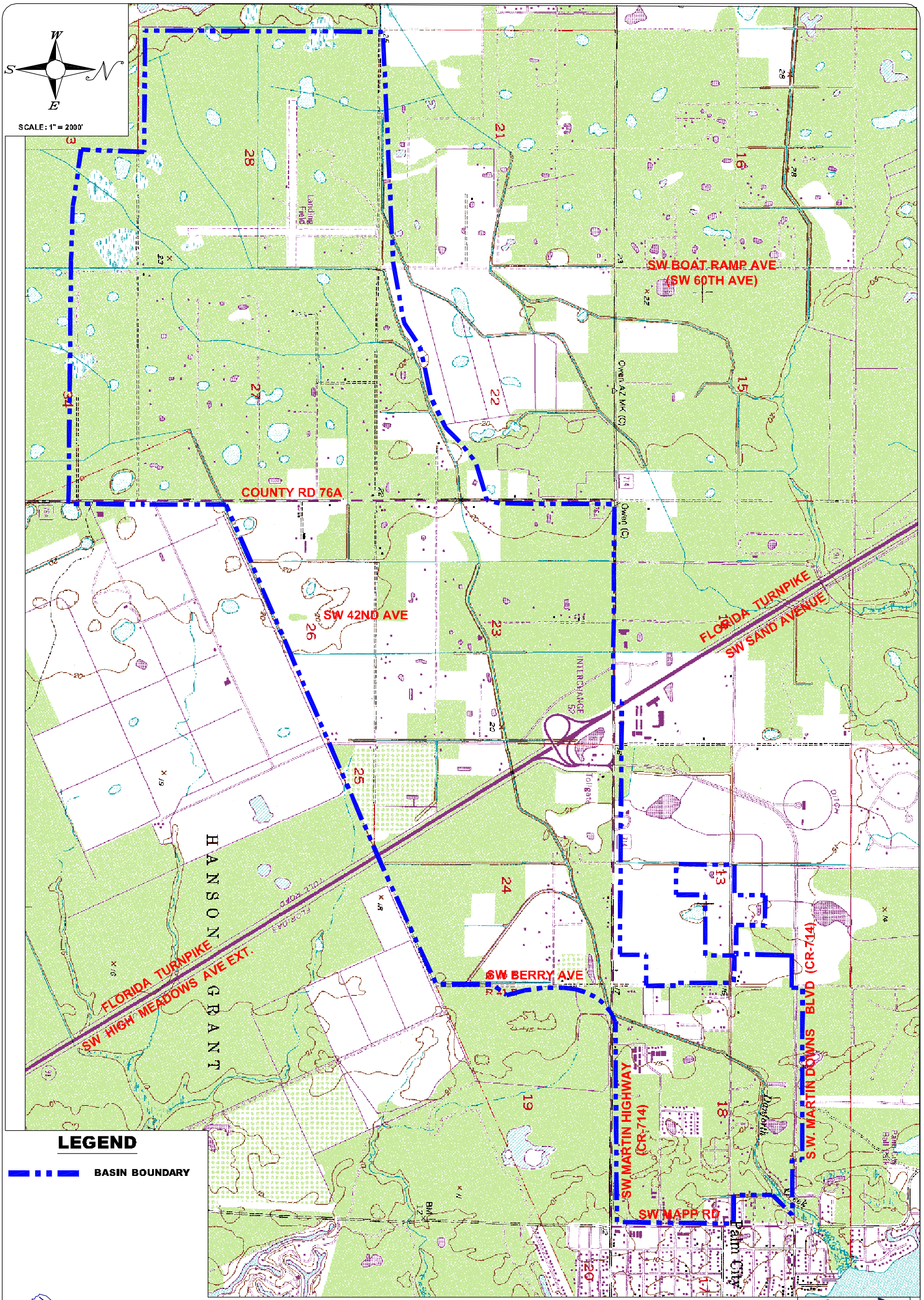
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STATE OF FLORIDA



OVERALL WATER QUALITY DEFICIENT AREA = 2296 AC. (1" OVER AREA = 191 AC.-FT.)
PROPOSED WATER QUALITY RETROFIT AREA = 121.50 AC. @ CONTROL EL.
PROPOSED WATER QUALITY PROVIDED = 196.50 AC.-FT.

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DANFORTH CREEK
WATER QUALITY DEFICIENCIES
Exhibit 5

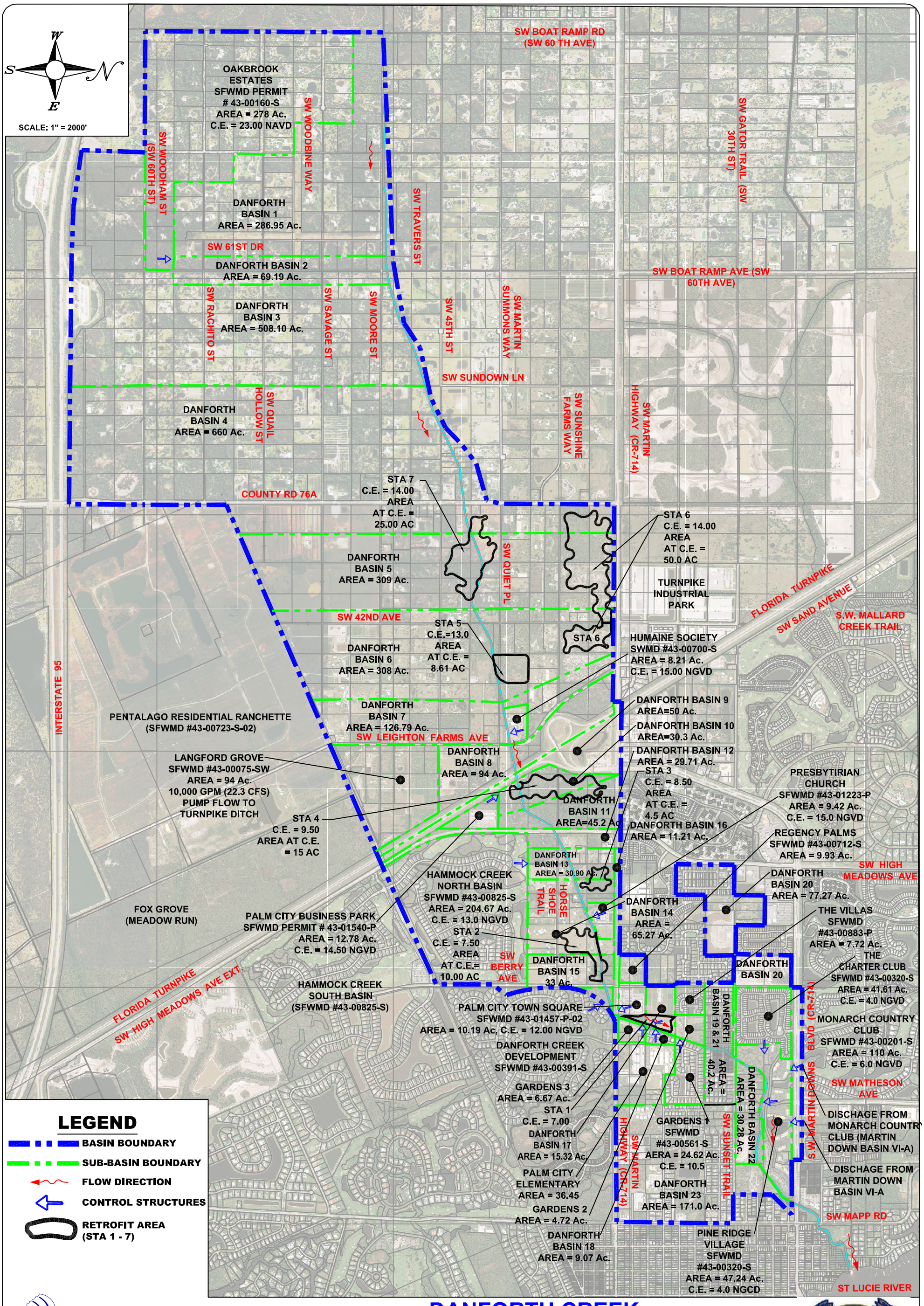


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DANFORTH CREEK
USGS MAP
Exhibit 6



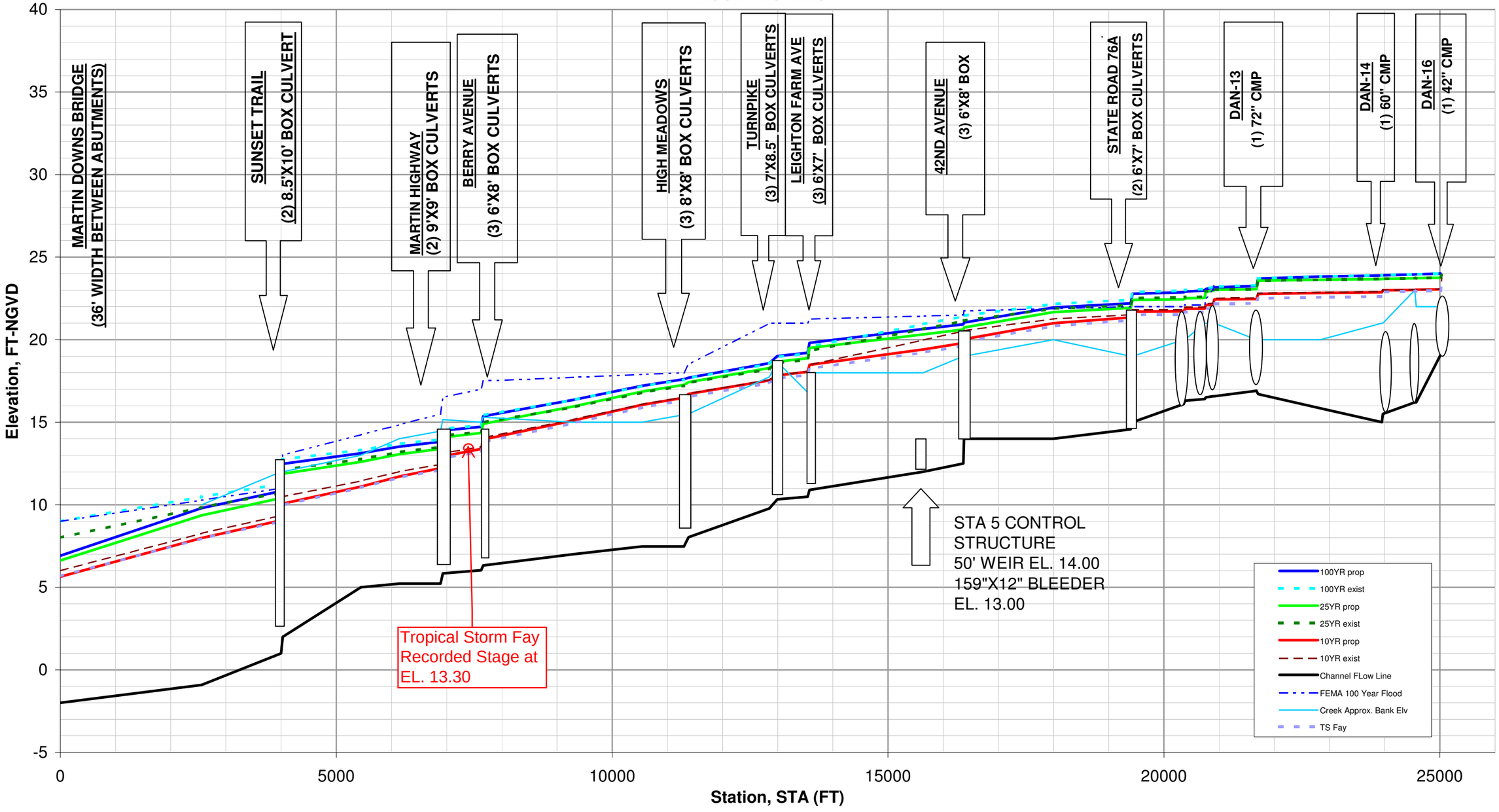
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DANFORTH CREEK BASIN AND SUB - BASIN IMPROVEMENTS

Exhibit 7

DANFORTH CREEK WITH STA 5 (EXHIBIT 8)

EXISTING/PROPOSED
FLOOD PROFILES



Project: DANFORTH CREEK WATER QUALITY RETROFIT **Date:** 12/24/2008

Name: EXHIBIT 9 **File:** P:\1200\1207.2 - Danforth Creek\Photos\Picture Descriptions.xls



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3825.JPG
Figure 1: Mapp Road Downstream (Looking DS)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3826.JPG
Figure 2: Mapp Road Downstream (Looking North)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3828.JPG
Figure 3: Mapp Road Downstream (Looking North)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3829.JPG
Figure 4: Mapp Road Upstream (Looking North)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3830.JPG
Figure 5: Mapp Road Upstream (Looking DS)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3831.JPG
Figure 6: Mapp Road Upstream (Looking US)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3835.JPG
Figure 7: Martin Downs Blvd Downstream (Looking DS, North))



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3836.JPG
Figure 8: Martin Downs Blvd Downstream (Looking East)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3840.JPG
Figure 9: Martin Downs Blvd Upstream (Looking DS)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3837.JPG
Figure 10: Martin Downs Blvd Upstream (Looking US, South)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3842.JPG
Figure 11: Sunset Trail Downstream (Looking DS)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3843.JPG
Figure 12: Sunset Trail Downstream (Looking DS)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3844.JPG
Figure 13: Sunset Trail Downstream (Looking US)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3845.JPG
Figure 14: Sunset Trail Downstream (Looking US)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3849.JPG
Figure 15: Sunset Trail Downstream (Looking East)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3846.JPG
Figure 16: Sunset Trail Upstream (Looking US)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3858.JPG
Figure 17: Martin Highway Downstream (Looking DS, North)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3856.JPG
Figure 18: Martin Highway Downstream (Looking DS, North)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3855.JPG
Figure 19: Martin Highway Downstream (Looking US, South)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3853.JPG
Figure 20: Martin Highway Upstream (Looking East)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3851.JPG
Figure 21: Martin Highway Upstream (Looking US)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3852.JPG
Figure 22: Martin Highway Upstream (Looking US)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3850.JPG
Figure 23: Martin Highway Upstream (Looking DS)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3860.JPG
Figure 24: Berry Avenue Downstream (Looking DS, East)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3861.JPG
Figure 25: Berry Avenue Downstream (Looking North)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3862.JPG
Figure 26: Berry Avenue Upstream (Looking North)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3863.JPG
Figure 27: Berry Avenue Upstream (Looking US, West)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3867.JPG
Figure 28: High Meadows Ave Downstream (Looking DS, East)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3865.JPG
Figure 29: High Meadows Ave Upstream (Looking DS, East)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3866.JPG
Figure 30: High Meadows Ave Upstream (Looking DS, East)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3864.JPG
Figure 31: High Meadows Ave Upstream (Looking US, Southwest)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3873.JPG
Figure 32: Leighton Farms Ave Downstream (Looking Turnpike Culverts)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3876.JPG
Figure 33: Leighton Farms Ave Downstream (Looking South)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3875.JPG
Figure 34: Leighton Farms Ave Downstream (Looking US, West)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3880.JPG
Figure 35: Leighton Farms Ave Upstream (Looking DS, East)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3877.JPG
Figure 36: Leighton Farms Ave Upstream (Looking US, West)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3882.JPG
Figure 37: 42ND Ave Box Culverts in Private Property



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3885.JPG
Figure 38: SR76A Downstream (Looking DS, East)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3886.JPG
Figure 39: SR76A Downstream (Looking South)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3884.JPG
Figure 40: SR76A Upstream (Looking North)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3883.JPG
Figure 41: SR76A Upstream (Looking US, West)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3888.JPG
Figure 42: Boat Ramp Road Downstream (Looking DS, East)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3890.JPG
Figure 43: Boat Ramp Road Downstream (Looking South)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3891.JPG
Figure 44: Boat Ramp Ave Downstream (Culvert under Road)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3892.JPG
Figure 45: Boat Ramp Road Downstream (Looking South, Incoming Ditch)



P:\1200\1207.2 - Danforth Creek\Photos\IMGP3894.JPG
Figure 46: Boat Ramp Road Upstream (Culvert under Road)

DANFORTH CREEK
STORM WATER QUALITY RETROFIT

TABLES

SUBMITTED BY:

CAPTEC Engineering, Inc.
Civil Engineering Professionals

TABLE 1 - TOTAL PEAK DISCHARGE THROUGH MARTIN DOWNS BLVD BRIDGE

	Discharge Location	100 Year Peak Discharge (CFS)	25 Year Peak Discharge (CFS)
Existing FEMA Model	Martin Downs Bridge	1396	-
ICPR Pre-Development Model	Martin Downs Bridge	1556.43	1371.05
Post ICPR Model with STA 7	Martin Downs Bridge	1549.69	1360.32
Post ICPR Model with STA 6	Martin Downs Bridge	1539.75	1345.03
Post ICPR Model with STA 5	Martin Downs Bridge	21.33	17.28
Post INCUR Model with SAT 4	Martin Downs Bridge	1545.33	1345.6
Post INCUR Model with SAT 3	Martin Downs Bridge	1522.99	1324.7
Post INCUR Model with SAT 2	Martin Downs Bridge	1445.7	1239.93

TABLE 2 - DANFORTH CREEK STORMWATER QUALITY RETROFIT

SUMMARY OF EXISTING AND PROPOSED MODEL CONDITIONS - STA 5

	Min Road Grade (ft - NGVD)	Min FFE El (ft - NGVD)	Storm Event	Maximum Stage Existing (ft - NGVD)	Maximum Stage Proposed (ft - NGVD)	Change in Stage (ft)	Maximum Discharge Existing (CFS)	Maximum Discharge Proposed (CFS)	Change in Discharge (CFS)
B01-PINE RIDGE	10	12	010YEAR1DAY	8.28	8.22	-0.06	28.39	26.86	-1.53
B01-PINE RIDGE	10	12	025YEAR3DAY	10.12	10.10	-0.02	73.41	73.05	-0.36
B01-PINE RIDGE	10	12	100YEAR3DAY	10.77	10.76	-0.01	97.06	96.86	-0.20
B02-THE CHARTER	10	12	010YEAR1DAY	8.32	8.26	-0.06	5.32	4.83	-0.49
B02-THE CHARTER	10	12	025YEAR3DAY	10.25	10.23	-0.02	14.42	14.26	-0.16
B02-THE CHARTER	10	12	100YEAR3DAY	10.91	10.90	-0.01	16.87	16.83	-0.04
B03-MONARCH CNT	10.5	12	010YEAR1DAY	8.95	8.93	-0.02	18.02	18.66	0.64
B03-MONARCH CNT	10.5	12	025YEAR3DAY	10.71	10.70	-0.01	36.19	36.08	-0.11
B03-MONARCH CNT	10.5	12	100YEAR3DAY	11.21	11.21	0.00	57.18	57.30	0.12
B04-GARDENS 1	13.5	16	010YEAR1DAY	12.94	12.92	-0.02	3.69	3.73	0.04
B04-GARDENS 1	13.5	16	025YEAR3DAY	14.27	14.26	-0.01	4.57	4.57	0.00
B04-GARDENS 1	13.5	16	100YEAR3DAY	14.49	14.49	0.00	9.37	9.38	0.01
B05-GARDENS 2	14	16	010YEAR1DAY	14.18	14.18	0.00	0.42	0.42	0.00
B05-GARDENS 2	14	16	025YEAR3DAY	14.82	14.82	0.00	0.51	0.50	-0.01
B05-GARDENS 2	14	16	100YEAR3DAY	14.90	14.90	0.00	1.94	1.93	-0.01
B06-GARDENS 3	14	16	010YEAR1DAY	14.25	14.25	0.00	6.53	6.56	0.03
B06-GARDENS 3	14	16	025YEAR3DAY	14.46	14.46	0.00	15.34	15.34	0.00
B06-GARDENS 3	14	16	100YEAR3DAY	14.54	14.54	0.00	18.10	18.26	0.16
B07-THE VILLAS	14.7	17	010YEAR1DAY	14.76	14.76	0.00	1.52	1.52	0.00
B07-THE VILLAS	14.7	17	025YEAR3DAY	15.54	15.54	0.00	1.97	1.97	0.00
B07-THE VILLAS	14.7	17	100YEAR3DAY	15.73	15.73	0.00	3.48	3.49	0.01
B08-PALM TN SQR	17	18.6	010YEAR1DAY	16.29	16.29	0.00	0.47	0.46	-0.01
B08-PALM TN SQR	17	18.6	025YEAR3DAY	17.23	17.23	0.00	1.66	1.66	0.00
B08-PALM TN SQR	17	18.6	100YEAR3DAY	17.37	17.37	0.00	5.52	5.52	0.00
B09-REGENCY PLM	16.5	19.2	010YEAR1DAY	15.30	15.30	0.00	6.65	6.65	0.00
B09-REGENCY PLM	16.5	19.2	025YEAR3DAY	16.04	16.04	0.00	8.86	8.88	0.02
B09-REGENCY PLM	16.5	19.2	100YEAR3DAY	16.38	16.38	0.00	9.48	9.53	0.05
B10-DANFORTH RS		15.5	010YEAR1DAY	13.70	13.70	0.00	0.78	0.81	0.03
B10-DANFORTH RS		15.5	025YEAR3DAY	14.40	14.40	0.00	3.65	3.67	0.02
B10-DANFORTH RS		15.5	100YEAR3DAY	15.00	15.00	0.00	6.34	6.36	0.02
B11-PRESBYTERN	17.54	18.75	010YEAR1DAY	17.65	17.65	0.00	1.87	1.88	0.01
B11-PRESBYTERN	17.54	18.75	025YEAR3DAY	18.02	18.02	0.00	10.00	10.00	0.00
B11-PRESBYTERN	17.54	18.75	100YEAR3DAY	18.05	18.05	0.00	29.76	29.76	0.00
B12-HAMMOCK CRK	16.6	18.5	010YEAR1DAY	16.91	16.86	-0.05	26.00	25.62	-0.38
B12-HAMMOCK CRK	16.6	18.5	025YEAR3DAY	17.67	17.66	-0.01	29.18	28.93	-0.25
B12-HAMMOCK CRK	16.6	18.5	100YEAR3DAY	17.90	17.89	-0.01	31.00	30.57	-0.43
B13-PLM C B PRK	17.4	19	010YEAR1DAY	17.60	17.55	-0.05	1.65	1.59	-0.06
B13-PLM C B PRK	17.4	19	025YEAR3DAY	18.24	18.23	-0.01	3.22	3.19	-0.03
B13-PLM C B PRK	17.4	19	100YEAR3DAY	18.54	18.54	0.00	4.60	4.62	0.02
B14-HUMAN SC	18.8	21.5	010YEAR1DAY	18.65	18.49	-0.16	6.89	6.04	-0.85
B14-HUMAN SC	18.8	21.5	025YEAR3DAY	19.50	19.50	0.00	8.96	9.16	0.20
B14-HUMAN SC	18.8	21.5	100YEAR3DAY	19.80	19.81	0.01	10.28	9.28	-1.00
B15-OAKBROOK ES			010YEAR1DAY	24.12	24.12	0.00	16.96	16.96	0.00
B15-OAKBROOK ES			025YEAR3DAY	24.51	24.51	0.00	27.54	27.55	0.01
B15-OAKBROOK ES			100YEAR3DAY	24.68	24.68	0.00	32.38	32.39	0.01
B16-IMMAN LUTH			010YEAR1DAY	6.35	6.34	-0.01	0.84	0.84	0.00
B16-IMMAN LUTH			025YEAR3DAY	7.17	7.17	0.00	5.50	5.51	0.01
B16-IMMAN LUTH			100YEAR3DAY	7.43	7.43	0.00	9.04	9.04	0.00
B17-MAPLEWOOD			010YEAR1DAY	6.24	6.24	0.00	5.68	5.68	0.00
B17-MAPLEWOOD			025YEAR3DAY	6.88	6.88	0.00	19.45	19.63	0.18
B17-MAPLEWOOD			100YEAR3DAY	7.08	7.08	0.00	22.78	23.02	0.24
B18-34ST POND			010YEAR1DAY	8.05	8.05	0.00	14.16	14.16	0.00
B18-34ST POND			025YEAR3DAY	8.89	8.89	0.00	25.06	25.06	0.00
B18-34ST POND			100YEAR3DAY	9.22	9.22	0.00	29.50	29.49	-0.01
B19-COR DITCH			010YEAR1DAY	7.61	7.61	0.00	17.36	17.36	0.00
B19-COR DITCH			025YEAR3DAY	8.26	8.26	0.00	33.01	33.01	0.00
B19-COR DITCH			100YEAR3DAY	8.51	8.51	0.00	39.73	39.74	0.01
D-00 RIVER TW			010YEAR1DAY	2.00	2.00	0.00	0.00	0.00	0.00
D-00 RIVER TW			025YEAR3DAY	4.00	4.00	0.00	0.00	0.00	0.00
D-00 RIVER TW			100YEAR3DAY	4.00	4.00	0.00	0.00	0.00	0.00
D00-MAPP RD DN			010YEAR1DAY	5.58	5.46	-0.12	812.24	750.45	-61.79
D00-MAPP RD DN			025YEAR3DAY	6.40	6.39	-0.01	1219.72	1209.22	-10.50
D00-MAPP RD DN			100YEAR3DAY	6.67	6.66	-0.01	1391.96	1384.61	-7.35

TABLE 2 - DANFORTH CREEK STORMWATER QUALITY RETROFIT

SUMMARY OF EXISTING AND PROPOSED MODEL CONDITIONS - STA 5

	Min Road Grade (ft - NGVD)	Min FFE El (ft - NGVD)	Storm Event	Maximum Stage Existing (ft - NGVD)	Maximum Stage Proposed (ft - NGVD)	Change in Stage (ft)	Maximum Discharge Existing (CFS)	Maximum Discharge Proposed (CFS)	Change in Discharge (CFS)
D00-MAPP RD UP			010YEAR1DAY	5.62	5.50	-0.12	807.92	746.52	-61.40
D00-MAPP RD UP			025YEAR3DAY	6.48	6.46	-0.02	1209.97	1199.67	-10.30
D00-MAPP RD UP			100YEAR3DAY	6.76	6.75	-0.01	1378.90	1371.69	-7.21
D01-MARTIN DN			010YEAR1DAY	5.77	5.64	-0.13	796.81	736.64	-60.17
D01-MARTIN DN			025YEAR3DAY	6.63	6.62	-0.01	1179.77	1169.90	-9.87
D01-MARTIN DN			100YEAR3DAY	6.92	6.91	-0.01	1339.46	1332.85	-6.61
D02-PINE RIDGE			010YEAR1DAY	8.20	7.98	-0.22	772.89	712.94	-59.95
D02-PINE RIDGE			025YEAR3DAY	9.39	9.36	-0.03	1127.66	1118.06	-9.60
D02-PINE RIDGE			100YEAR3DAY	9.81	9.80	-0.01	1273.42	1267.41	-6.01
D03-SUNSET-DN			010YEAR1DAY	9.31	9.06	-0.25	781.23	715.49	-65.74
D03-SUNSET-DN			025YEAR3DAY	10.44	10.41	-0.03	1043.12	1034.44	-8.68
D03-SUNSET-DN			100YEAR3DAY	10.85	10.83	-0.02	1155.01	1149.72	-5.29
D04-SUNSET-UP			010YEAR1DAY	10.43	10.07	-0.36	782.62	716.16	-66.46
D04-SUNSET-UP			025YEAR3DAY	11.93	11.88	-0.05	1046.27	1037.66	-8.61
D04-SUNSET-UP			100YEAR3DAY	12.51	12.48	-0.03	1158.42	1153.05	-5.37
D05-GARDENS 1			010YEAR1DAY	11.41	11.10	-0.31	677.28	644.81	-32.47
D05-GARDENS 1			025YEAR3DAY	12.65	12.60	-0.05	846.70	838.94	-7.76
D05-GARDENS 1			100YEAR3DAY	13.15	13.12	-0.03	915.99	910.60	-5.39
D06-VILLAS-OUT			010YEAR1DAY	11.99	11.71	-0.28	668.98	639.69	-29.29
D06-VILLAS-OUT			025YEAR3DAY	13.09	13.06	-0.03	830.80	823.26	-7.54
D06-VILLAS-OUT			100YEAR3DAY	13.55	13.52	-0.03	894.37	889.74	-4.63
D07-MARN HY-DN			010YEAR1DAY	12.43	12.22	-0.21	653.27	629.73	-23.54
D07-MARN HY-DN			025YEAR3DAY	13.43	13.39	-0.04	781.16	777.74	-3.42
D07-MARN HY-DN			100YEAR3DAY	13.84	13.82	-0.02	847.48	847.73	0.25
D08-MARTN HY-UP			010YEAR1DAY	13.12	12.94	-0.18	652.68	629.19	-23.49
D08-MARTN HY-UP			025YEAR3DAY	14.13	14.08	-0.05	779.34	776.15	-3.19
D08-MARTN HY-UP			100YEAR3DAY	14.53	14.50	-0.03	845.45	845.76	0.31
D09-BARRY AV DN			010YEAR1DAY	13.52	13.38	-0.14	647.21	624.52	-22.69
D09-BARRY AV DN			025YEAR3DAY	14.39	14.35	-0.04	769.50	767.18	-2.32
D09-BARRY AV DN			100YEAR3DAY	14.75	14.72	-0.03	833.37	833.98	0.61
D10-BERRY AV UP			010YEAR1DAY	14.12	13.95	-0.17	647.16	624.48	-22.68
D10-BERRY AV UP			025YEAR3DAY	14.96	14.90	-0.06	769.46	767.15	-2.31
D10-BERRY AV UP			100YEAR3DAY	15.38	15.36	-0.02	833.31	833.92	0.61
D11-CHURCH-OUT			010YEAR1DAY	15.23	15.10	-0.13	641.27	619.58	-21.69
D11-CHURCH-OUT			025YEAR3DAY	15.96	15.95	-0.01	764.18	762.08	-2.10
D11-CHURCH-OUT			100YEAR3DAY	16.35	16.35	0.00	827.67	828.38	0.71
D12-30TH AVE			010YEAR1DAY	16.17	16.05	-0.12	629.81	609.09	-20.72
D12-30TH AVE			025YEAR3DAY	16.86	16.85	-0.01	751.21	749.39	-1.82
D12-30TH AVE			100YEAR3DAY	17.20	17.20	0.00	813.33	814.18	0.85
D13-HIGH MEA-DN			010YEAR1DAY	16.61	16.48	-0.130	614.72	593.63	-21.09
D13-HIGH MEA-DN			025YEAR3DAY	17.28	17.26	-0.020	734.14	732.62	-1.52
D13-HIGH MEA-DN			100YEAR3DAY	17.60	17.61	0.010	793.43	794.90	1.47
D14-HIGH MEA-UP			010YEAR1DAY	16.85	16.71	-0.140	610.96	590.30	-20.66
D14-HIGH MEA-UP			025YEAR3DAY	17.43	17.42	-0.010	731.10	729.99	-1.11
D14-HIGH MEA-UP			100YEAR3DAY	17.70	17.70	0.000	790.71	792.68	1.97
D15-TURNPIKE-DN			010YEAR1DAY	17.69	17.54	-0.150	611.38	590.28	-21.10
D15-TURNPIKE-DN			025YEAR3DAY	18.29	18.29	0.000	731.87	731.81	-0.06
D15-TURNPIKE-DN			100YEAR3DAY	18.57	18.58	0.010	795.71	799.19	3.48
D16-TURNPIKE-UP			010YEAR1DAY	17.99	17.84	-0.150	606.91	589.13	-17.78
D16-TURNPIKE-UP			025YEAR3DAY	18.68	18.67	-0.010	726.45	728.08	1.63
D16-TURNPIKE-UP			100YEAR3DAY	19.00	19.01	0.010	794.09	799.44	5.35
D17-LEIGHTON-DN			010YEAR1DAY	18.20	18.06	-0.140	556.38	541.87	-14.51
D17-LEIGHTON-DN			025YEAR3DAY	18.88	18.88	0.000	676.8	678.34	1.54
D17-LEIGHTON-DN			100YEAR3DAY	19.20	19.21	0.010	740.2	745.3	5.10
D18-LEIGHTON-UP			010YEAR1DAY	18.65	18.48	-0.170	556.41	541.94	-14.47
D18-LEIGHTON-UP			025YEAR3DAY	19.50	19.50	0.000	676.77	678.32	1.55
D18-LEIGHTON-UP			100YEAR3DAY	19.80	19.81	0.010	740.19	745.29	5.10
D19-MID-4.58			010YEAR1DAY	19.78	19.31	-0.47		535.78	-4.15
D19-MID-4.58			025YEAR3DAY	20.52	20.21	-0.31		643.63	4.76
D19-MID-4.58			100YEAR3DAY	20.83	20.53	-0.30		695.7	5.86
D19-STA			010YEAR1DAY	19.78	19.41	-0.37	539.93	536.88	91.07
D19-STA			025YEAR3DAY	20.52	20.32	-0.20	638.87	645.04	94.59
D19-STA			100YEAR3DAY	20.83	20.65	-0.18	689.84	696.02	98.02
D20-42ND AVE-DN			010YEAR1DAY	20.09	19.80	-0.29	445.81	457.43	11.62
D20-42ND AVE-DN			025YEAR3DAY	20.79	20.62	-0.17	550.45	561.36	10.91
D20-42ND AVE-DN			100YEAR3DAY	21.08	20.93	-0.15	598	609.55	11.55
D21-42ND AVE-UP			010YEAR1DAY	20.25	20.03	-0.22	446.61	462.94	16.33
D21-42ND AVE-UP			025YEAR3DAY	20.89	20.74	-0.15	551.85	562.76	10.91
D21-42ND AVE-UP			100YEAR3DAY	21.18	21.04	-0.14	599.53	611.06	11.53

TABLE 2 - DANFORTH CREEK STORMWATER QUALITY RETROFIT

SUMMARY OF EXISTING AND PROPOSED MODEL CONDITIONS - STA 5

	Min Road Grade (ft - NGVD)	Min FFE El (ft - NGVD)	Storm Event	Maximum Stage Existing (ft - NGVD)	Maximum Stage Proposed (ft - NGVD)	Change in Stage (ft)	Maximum Discharge Existing (CFS)	Maximum Discharge Proposed (CFS)	Change in Discharge (CFS)
D22-MID-4.99			010YEAR1DAY	21.11	21.00	-0.11	447.81	473.17	25.36
D22-MID-4.99			025YEAR3DAY	21.73	21.67	-0.06	554.12	564.79	10.67
D22-MID-4.99			100YEAR3DAY	22.01	21.95	-0.06	602.19	613.47	11.28
D23-SR76A-DN			010YEAR1DAY	21.41	21.35	-0.06	325.54	329.02	3.48
D23-SR76A-DN			025YEAR3DAY	21.98	21.93	-0.05	405.92	408.98	3.06
D23-SR76A-DN			100YEAR3DAY	22.25	22.20	-0.05	455.31	459.33	4.02
D24-SR76A-UP			010YEAR1DAY	21.75	21.70	-0.05	325.08	328.6	3.52
D24-SR76A-UP			025YEAR3DAY	22.44	22.41	-0.03	405.41	408.45	3.04
D24-SR76A-UP			100YEAR3DAY	22.81	22.78	-0.03	454.88	459.02	4.14
D25-MID5.435-DN			010YEAR1DAY	21.77	21.72	-0.05	127.93	125.49	-2.44
D25-MID5.435-DN			025YEAR3DAY	22.47	22.44	-0.03	176.58	176.56	-0.02
D25-MID5.435-DN			100YEAR3DAY	22.90	22.87	-0.03	224.84	224.63	-0.21
D26-MID5.435-UP			010YEAR1DAY	21.91	21.87	-0.04	122.97	122.55	-0.42
D26-MID5.435-UP			025YEAR3DAY	22.52	22.51	-0.01	152.18	151.8	-0.38
D26-MID5.435-UP			100YEAR3DAY	22.94	22.91	-0.03	224.61	224.41	-0.20
D27-MID5.47-DN			010YEAR1DAY	21.93	21.88	-0.05	122.92	122.49	-0.43
D27-MID5.47-DN			025YEAR3DAY	22.55	22.53	-0.02	152.77	152.38	-0.39
D27-MID5.47-DN			100YEAR3DAY	23.00	22.98	-0.02	225.66	225.37	-0.29
D28-MID5.47-UP			010YEAR1DAY	22.12	22.11	-0.01	123.24	122.84	-0.40
D28-MID5.47-UP			025YEAR3DAY	22.91	22.90	-0.01	144.66	145.3	0.64
D28-MID5.47-UP			100YEAR3DAY	23.08	23.07	-0.01	205.91	206.65	0.74
D29-MID5.558-DN			010YEAR1DAY	22.15	22.10	-0.05	262.51	193	-69.51
D29-MID5.558-DN			025YEAR3DAY	22.96	22.96	0.00	461.32	459.96	-1.36
D29-MID5.558-DN			100YEAR3DAY	23.14	23.14	0.00	553.29	545.74	-7.55
D30-MID5.558-UP			010YEAR1DAY	22.47	22.44	-0.03	123.29	122.9	-0.39
D30-MID5.558-UP			025YEAR3DAY	23.02	23.02	0.00	147.71	147.5	-0.21
D30-MID5.558-UP			100YEAR3DAY	23.18	23.17	-0.01	184.74	187.63	2.89
D31-MID5.585-DN			010YEAR1DAY	22.49	22.46	-0.03	122.71	122.29	-0.42
D31-MID5.585-DN			025YEAR3DAY	23.06	23.06	0.00	152.18	151.8	-0.38
D31-MID5.585-DN			100YEAR3DAY	23.26	23.25	-0.01	225.16	224.9	-0.26
D32-MID5.585-UP			010YEAR1DAY	22.79	22.77	-0.02	122.61	122.18	N/A
D32-MID5.585-UP			025YEAR3DAY	23.57	23.57	0.00	152.1	151.73	N/A
D32-MID5.585-UP			100YEAR3DAY	23.70	23.70	0.00	224.61	224.39	N/A
D33-MID-OUTFALL			010YEAR1DAY	22.85	22.83	-0.02	122.48	122.05	N/A
D33-MID-OUTFALL			025YEAR3DAY	23.63	23.63	0.00	152.1	151.73	N/A
D33-MID-OUTFALL			100YEAR3DAY	23.82	23.82	0.00	224.6	224.38	N/A
D34-MID6.216-Dn				22.89	22.87	-0.02	85	85.04	
D34-MID6.216-Dn				23.67	23.67	0.00	182.01	182.12	
D34-MID6.216-Dn				23.89	23.89	0.00	221.15	221.31	
D35-MID6.216-UP				22.99	22.99	0.00	86.73	86.76	
D35-MID6.216-UP				23.68	23.68	0.00	182.75	182.86	
D35-MID6.216-UP				23.90	23.90	0.00	222.02	222.17	
D36-MID6.30-DN				23.02	23.01	-0.01	87.7	87.72	
D36-MID6.30-DN				23.72	23.72	0.00	183.13	183.23	
D36-MID6.30-DN				23.95	23.95	0.00	222.46	222.62	
D37-MID6.30-UP				23.03	23.03	0.00	88.7	88.72	
D37-MID6.30-UP				23.73	23.73	0.00	183.47	183.58	
D37-MID6.30-UP				23.96	23.96	0.00	222.88	223.03	
D38-MID6.312-DN				23.05	23.05	0.00	88.88	88.89	
D38-MID6.312-DN				23.76	23.75	-0.01	183.74	183.84	
D38-MID6.312-DN				24.00	24.00	0.00	223.2	223.35	
D39-MID6.312-UP				23.72	23.72	0.00	53.32	53.33	
D39-MID6.312-UP				23.91	23.91	0.00	145.69	145.71	
D39-MID6.312-UP				24.02	24.01	-0.01	190.42	190.45	

DANFORTH CREEK
STORM WATER QUALITY RETROFIT

APPENDICES

SUBMITTED BY:

CAPTEC Engineering, Inc.

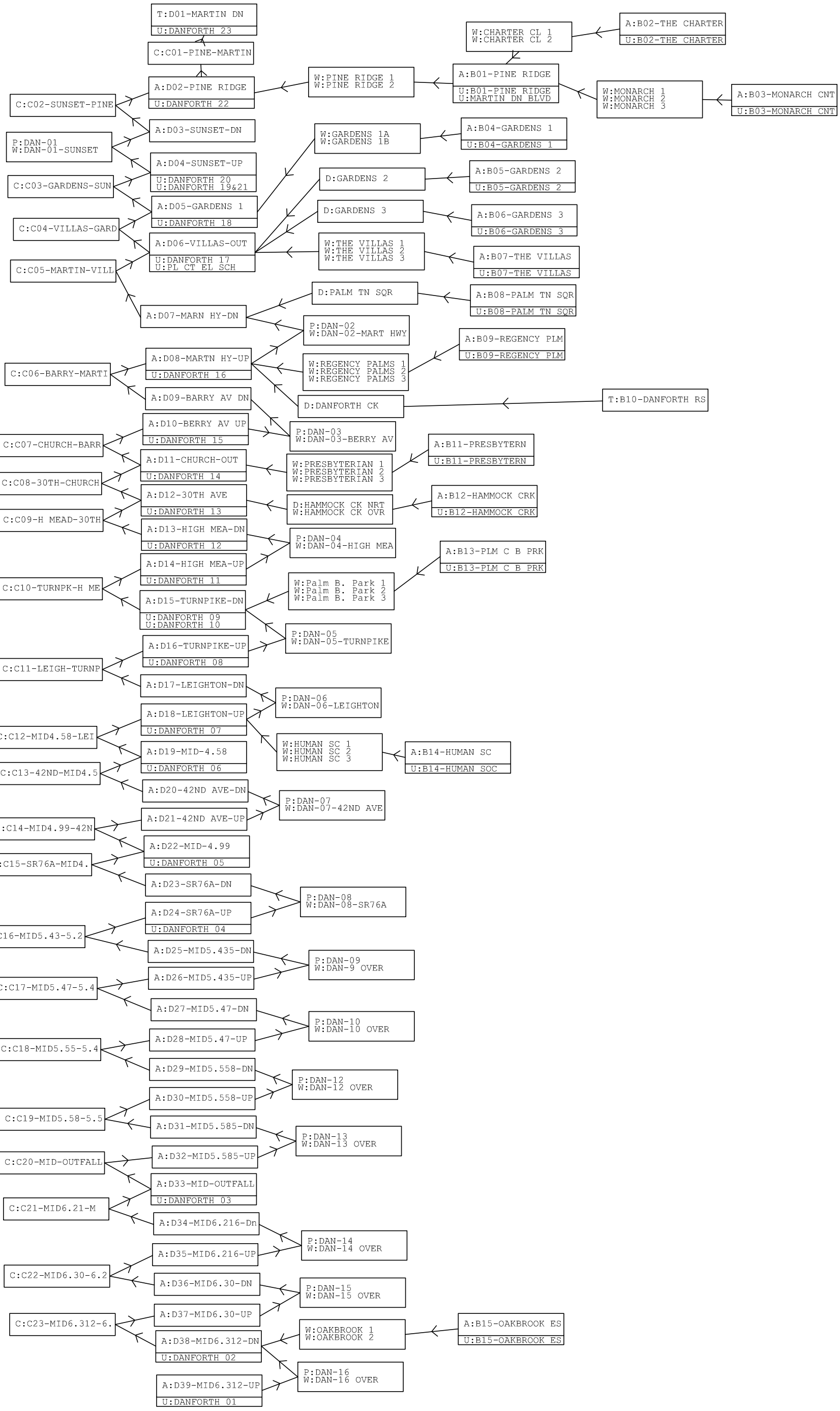
Civil Engineering Professionals

DANFORTH CREEK
STORM WATER QUALITY RETROFIT

ICPR MODEL OF EXISTING CONDITIONS

SUBMITTED BY:

CAPTEC Engineering, Inc.
Civil Engineering Professionals



THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADOPTION BY CAPTEC ENGINEERING, INC. SHALL BE WITHOUT LIABILITY TO CAPTEC ENGINEERING, INC.

JOB No.: 1207.2
SHEET 1 OF 1

Printed Date:

Joseph W. Capra
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638

DANFORTH CREEK WATER QUALITY RETROFIT

MARTIN COUNTY, FL

PRE-DEVELOPMENT NODE-REACH DIAGRAM

SCALE VERIFICATION

0 0.5

SOLID BAR IS EQUAL TO HALF AN INCH ON ORIGINAL DRAWING, ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

NO.	DATE	BY	REVISIONS

DATE: 12/02/08
DRAWN BY:
DESIGNED BY: MS
CHECKED BY: JWC
PROJECT No.: 1207.2
HORZ. SCALE: N/A
VERT. SCALE: N/A
CADD FILE: PRE-NODE

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DANFORTH CREEK WATER QUALITY RETROFIT
CAPTEC PROJECT NO. 1207.26
PRE DEVELOPMENT ICPR MODEL
EXIST NODE MAXIMUMS

Name	Simulation	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Inflow cfs	Max Outflow cfs
B01-PINE RIDGE	010YEAR1DAY	8.28	9.15	0.0015	239580	118.09	28.39
B01-PINE RIDGE	025YEAR3DAY	10.12	9.15	0.0004	331072	175.64	73.41
B01-PINE RIDGE	100YEAR3DAY	10.77	9.15	0.0004	813720	211.96	97.06
B02-THE CHARTER	010YEAR1DAY	8.32	8.89	0.0012	172095	52.41	5.32
B02-THE CHARTER	025YEAR3DAY	10.25	8.89	0.0004	223148	100.68	14.42
B02-THE CHARTER	100YEAR3DAY	10.91	8.89	0.0004	316997	124.94	16.87
B03-MONARCH CNT	010YEAR1DAY	8.95	12.00	0.0013	577304	242.76	18.02
B03-MONARCH CNT	025YEAR3DAY	10.71	12.00	0.0003	633426	326.66	36.19
B03-MONARCH CNT	100YEAR3DAY	11.21	12.00	0.0003	1066908	388.27	57.18
B04-GARDENS 1	010YEAR1DAY	12.94	14.15	0.0019	131860	67.86	3.69
B04-GARDENS 1	025YEAR3DAY	14.27	14.15	0.0005	300340	97.60	4.57
B04-GARDENS 1	100YEAR3DAY	14.49	14.15	0.0004	347396	116.95	9.37
B05-GARDENS 2	010YEAR1DAY	14.18	14.71	-0.0049	53190	11.90	0.42
B05-GARDENS 2	025YEAR3DAY	14.82	14.71	-0.0049	86445	18.17	0.51
B05-GARDENS 2	100YEAR3DAY	14.90	14.71	-0.0049	90795	21.91	1.94
B06-GARDENS 3	010YEAR1DAY	14.25	14.71	0.0046	77837	17.07	6.53
B06-GARDENS 3	025YEAR3DAY	14.46	14.71	-0.0028	97009	25.80	15.34
B06-GARDENS 3	100YEAR3DAY	14.54	14.71	-0.0019	104969	31.09	18.10
B07-THE VILLAS	010YEAR1DAY	14.76	15.40	0.0022	57824	23.15	1.52
B07-THE VILLAS	025YEAR3DAY	15.54	15.40	0.0005	120451	33.39	1.97
B07-THE VILLAS	100YEAR3DAY	15.73	15.40	0.0003	136033	40.04	3.48
B08-PALM TN SQR	010YEAR1DAY	16.29	17.17	0.0031	76501	31.40	0.47
B08-PALM TN SQR	025YEAR3DAY	17.23	17.17	-0.0042	138786	46.54	1.66
B08-PALM TN SQR	100YEAR3DAY	17.37	17.17	0.0003	165520	55.88	5.52
B09-REGENCY PLM	010YEAR1DAY	15.30	16.92	0.0020	64725	33.66	6.65
B09-REGENCY PLM	025YEAR3DAY	16.04	16.92	0.0005	71783	46.79	8.86
B09-REGENCY PLM	100YEAR3DAY	16.38	16.92	0.0004	75124	55.77	9.48
B10-DANFORTH RS	010YEAR1DAY	13.70	14.40	0.0001	0	0.00	0.78
B10-DANFORTH RS	025YEAR3DAY	14.40	14.40	-0.0001	0	0.00	3.65
B10-DANFORTH RS	100YEAR3DAY	15.00	14.40	0.0001	0	0.00	6.34
B11-PRESBYTERN	010YEAR1DAY	17.65	18.00	0.0012	161390	34.49	1.87
B11-PRESBYTERN	025YEAR3DAY	18.02	18.00	0.0002	202929	45.32	10.00
B11-PRESBYTERN	100YEAR3DAY	18.05	18.00	0.0001	208226	53.75	29.76
B12-HAMMOCK CRK	010YEAR1DAY	16.91	17.70	0.0017	1435738	458.57	26.00
B12-HAMMOCK CRK	025YEAR3DAY	17.67	17.70	0.0004	4446634	610.32	29.18
B12-HAMMOCK CRK	100YEAR3DAY	17.90	17.70	0.0002	5426517	724.68	31.00
B13-PLM C B PRK	010YEAR1DAY	17.60	17.75	0.0013	289427	11.49	1.65
B13-PLM C B PRK	025YEAR3DAY	18.24	17.75	-0.0046	369824	18.58	3.22
B13-PLM C B PRK	100YEAR3DAY	18.54	17.75	0.0001	407578	22.57	4.60
B14-HUMAN SC	010YEAR1DAY	18.65	17.85	0.0022	150959	29.66	6.89
B14-HUMAN SC	025YEAR3DAY	19.50	17.85	0.0004	203385	39.37	8.96
B14-HUMAN SC	100YEAR3DAY	19.80	17.85	0.0002	221965	46.73	10.28
B15-OAKBROOK ES	010YEAR1DAY	24.12	25.00	0.0003	7507264	426.70	16.96
B15-OAKBROOK ES	025YEAR3DAY	24.51	25.00	0.0000	9308309	546.24	27.54
B15-OAKBROOK ES	100YEAR3DAY	24.68	25.00	0.0000	10097852	647.53	32.38
B16-IMMAN LUTH	010YEAR1DAY	6.35	7.15	-0.0030	23168	9.45	0.84
B16-IMMAN LUTH	025YEAR3DAY	7.17	7.15	-0.0029	27311	17.28	5.50
B16-IMMAN LUTH	100YEAR3DAY	7.43	7.15	-0.0029	28441	21.33	9.04
B17-MAPLEWOOD	010YEAR1DAY	6.24	6.00	0.0019	59143	22.41	5.68
B17-MAPLEWOOD	025YEAR3DAY	6.88	6.00	0.0004	110471	47.71	19.45
B17-MAPLEWOOD	100YEAR3DAY	7.08	6.00	0.0002	126561	60.10	22.78
B18-34ST POND	010YEAR1DAY	8.05	9.50	0.0008	496861	51.83	14.16
B18-34ST POND	025YEAR3DAY	8.89	9.50	0.0001	795860	101.53	25.06
B18-34ST POND	100YEAR3DAY	9.22	9.50	0.0001	878111	126.51	29.50
B19-COR DITCH	010YEAR1DAY	7.61	7.00	0.0013	50895	20.30	17.36
B19-COR DITCH	025YEAR3DAY	8.26	7.00	0.0002	61535	37.90	33.01
B19-COR DITCH	100YEAR3DAY	8.51	7.00	0.0002	65649	47.14	39.73
D-00 RIVER TW	010YEAR1DAY	2.00	2.00	0.0000	56932	812.24	0.00
D-00 RIVER TW	025YEAR3DAY	4.00	2.00	0.0001	117178	1219.72	0.00
D-00 RIVER TW	100YEAR3DAY	4.00	2.00	0.0001	117762	1391.96	0.00
D00-MAPP RD DN	010YEAR1DAY	5.58	5.00	0.0050	105550	812.56	812.24
D00-MAPP RD DN	025YEAR3DAY	6.40	5.00	0.0038	124091	1220.49	1219.72
D00-MAPP RD DN	100YEAR3DAY	6.67	5.00	0.0039	126817	1392.78	1391.96
D00-MAPP RD UP	010YEAR1DAY	5.62	5.00	-0.0050	74773	808.55	807.92
D00-MAPP RD UP	025YEAR3DAY	6.48	5.00	-0.0050	256751	1216.36	1209.97
D00-MAPP RD UP	100YEAR3DAY	6.76	5.00	-0.0050	307317	1388.16	1378.90
D01-MARTIN DN	010YEAR1DAY	5.77	7.50	0.0019	146095	799.13	796.81
D01-MARTIN DN	025YEAR3DAY	6.63	7.50	0.0004	163978	1185.11	1179.77
D01-MARTIN DN	100YEAR3DAY	6.92	7.50	0.0004	169165	1345.81	1339.46
D02-PINE RIDGE	010YEAR1DAY	8.20	10.00	0.0032	139840	777.16	772.89
D02-PINE RIDGE	025YEAR3DAY	9.39	10.00	-0.0011	157122	1134.87	1127.66

DANFORTH CREEK WATER QUALITY RETROFIT
CAPTEC PROJECT NO. 1207.26
PRE DEVELOPMENT ICPR MODEL
EXIST NODE MAXIMUMS

Name	Simulation	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Inflow cfs	Max Outflow cfs
D02-PINE RIDGE	100YEAR3DAY	9.81	10.00	-0.0011	163291	1282.35	1273.42
D03-SUNSET-DN	010YEAR1DAY	9.31	13.24	0.0037	42290	782.62	781.23
D03-SUNSET-DN	025YEAR3DAY	10.44	13.24	-0.0016	47509	1046.27	1043.12
D03-SUNSET-DN	100YEAR3DAY	10.85	13.24	-0.0016	49450	1158.42	1155.01
D04-SUNSET-UP	010YEAR1DAY	10.43	13.24	0.0045	42099	784.69	782.62
D04-SUNSET-UP	025YEAR3DAY	11.93	13.24	-0.0026	47856	1050.28	1046.27
D04-SUNSET-UP	100YEAR3DAY	12.51	13.24	-0.0026	49561	1163.53	1158.42
D05-GARDENS 1	010YEAR1DAY	11.41	15.00	0.0037	58890	675.63	677.28
D05-GARDENS 1	025YEAR3DAY	12.65	15.00	0.0014	66519	846.35	846.70
D05-GARDENS 1	100YEAR3DAY	13.15	15.00	0.0014	69467	914.48	915.99
D06-VILLAS-OUT	010YEAR1DAY	11.99	15.00	0.0036	41080	668.24	668.98
D06-VILLAS-OUT	025YEAR3DAY	13.09	15.00	0.0019	45626	834.26	830.80
D06-VILLAS-OUT	100YEAR3DAY	13.55	15.00	0.0019	47497	901.48	894.37
D07-MARN HY-DN	010YEAR1DAY	12.43	18.20	0.0038	22453	653.13	653.27
D07-MARN HY-DN	025YEAR3DAY	13.43	18.20	0.0024	24632	780.94	781.16
D07-MARN HY-DN	100YEAR3DAY	13.84	18.20	0.0024	25541	847.44	847.48
D08-MARTN HY-UP	010YEAR1DAY	13.12	18.20	0.0045	20168	652.58	652.68
D08-MARTN HY-UP	025YEAR3DAY	14.13	18.20	0.0016	22188	779.19	779.34
D08-MARTN HY-UP	100YEAR3DAY	14.53	18.20	0.0016	23004	845.43	845.45
D09-BARRY AV DN	010YEAR1DAY	13.52	16.10	0.0043	13317	647.16	647.21
D09-BARRY AV DN	025YEAR3DAY	14.39	16.10	0.0023	13999	769.46	769.50
D09-BARRY AV DN	100YEAR3DAY	14.75	16.10	0.0023	14401	833.31	833.37
D10-BERRY AV UP	010YEAR1DAY	14.12	16.10	0.0049	39123	647.03	647.16
D10-BERRY AV UP	025YEAR3DAY	14.96	16.10	0.0013	41123	769.38	769.46
D10-BERRY AV UP	100YEAR3DAY	15.38	16.10	0.0013	42294	833.22	833.31
D11-CHURCH-OUT	010YEAR1DAY	15.23	16.00	0.0044	62683	641.09	641.27
D11-CHURCH-OUT	025YEAR3DAY	15.96	16.00	0.0028	65358	764.09	764.18
D11-CHURCH-OUT	100YEAR3DAY	16.35	16.00	0.0028	474596	827.54	827.67
D12-30TH AVE	010YEAR1DAY	16.17	15.00	0.0048	200891	629.29	629.81
D12-30TH AVE	025YEAR3DAY	16.86	15.00	0.0031	648473	751.12	751.21
D12-30TH AVE	100YEAR3DAY	17.20	15.00	0.0031	871260	814.29	813.33
D13-HIGH MEA-DN	010YEAR1DAY	16.61	17.00	0.0049	293124	614.65	614.72
D13-HIGH MEA-DN	025YEAR3DAY	17.28	17.00	0.0030	577078	735.33	734.14
D13-HIGH MEA-DN	100YEAR3DAY	17.60	17.00	0.0030	716736	795.66	793.43
D14-HIGH MEA-UP	010YEAR1DAY	16.85	17.00	0.0050	888087	617.02	610.96
D14-HIGH MEA-UP	025YEAR3DAY	17.43	17.00	0.0024	1450554	738.87	731.10
D14-HIGH MEA-UP	100YEAR3DAY	17.70	17.00	0.0024	1711004	803.99	790.71
D15-TURNPIKE-DN	010YEAR1DAY	17.69	19.26	0.0044	1149941	639.43	611.38
D15-TURNPIKE-DN	025YEAR3DAY	18.29	19.26	-0.0021	1544101	763.15	731.87
D15-TURNPIKE-DN	100YEAR3DAY	18.57	19.26	-0.0024	1725738	832.70	795.71
D16-TURNPIKE-UP	010YEAR1DAY	17.99	19.26	0.0097	17810	607.22	606.91
D16-TURNPIKE-UP	025YEAR3DAY	18.68	19.26	0.0097	18689	726.66	726.45
D16-TURNPIKE-UP	100YEAR3DAY	19.00	19.26	0.0097	17605	794.32	794.09
D17-LEIGHTON-DN	010YEAR1DAY	18.20	19.15	0.0045	13014	556.41	556.38
D17-LEIGHTON-DN	025YEAR3DAY	18.88	19.15	0.0015	13307	676.77	676.80
D17-LEIGHTON-DN	100YEAR3DAY	19.20	19.15	0.0015	13308	740.19	740.20
D18-LEIGHTON-UP	010YEAR1DAY	18.65	19.15	0.0047	1202034	596.78	556.41
D18-LEIGHTON-UP	025YEAR3DAY	19.50	19.15	0.0012	1783726	726.46	676.77
D18-LEIGHTON-UP	100YEAR3DAY	19.80	19.15	0.0012	1989568	783.37	740.19
D19-MID-4.58	010YEAR1DAY	19.78	19.00	0.0041	1886425	645.56	539.93
D19-MID-4.58	025YEAR3DAY	20.52	19.00	-0.0015	3545647	915.52	638.87
D19-MID-4.58	100YEAR3DAY	20.83	19.00	-0.0015	4234189	1045.95	689.84
D20-42ND AVE-DN	010YEAR1DAY	20.09	19.61	0.0039	17605	446.61	445.81
D20-42ND AVE-DN	025YEAR3DAY	20.79	19.61	-0.0013	18709	551.85	550.45
D20-42ND AVE-DN	100YEAR3DAY	21.08	19.61	-0.0013	19070	599.53	598.00
D21-42ND AVE-UP	010YEAR1DAY	20.25	19.61	-0.0053	31945	447.81	446.61
D21-42ND AVE-UP	025YEAR3DAY	20.89	19.61	-0.0053	33822	554.12	551.85
D21-42ND AVE-UP	100YEAR3DAY	21.18	19.61	-0.0053	34741	602.19	599.53
D22-MID-4.99	010YEAR1DAY	21.11	18.00	0.0033	76283	450.05	447.81
D22-MID-4.99	025YEAR3DAY	21.73	18.00	-0.0007	76914	557.77	554.12
D22-MID-4.99	100YEAR3DAY	22.01	18.00	-0.0007	77202	606.40	602.19
D23-SR76A-DN	010YEAR1DAY	21.41	22.77	0.0029	30708	325.08	325.54
D23-SR76A-DN	025YEAR3DAY	21.98	22.77	-0.0008	30563	405.41	405.92
D23-SR76A-DN	100YEAR3DAY	22.25	22.77	-0.0009	30563	454.88	455.31
D24-SR76A-UP	010YEAR1DAY	21.75	22.77	0.0031	3705756	454.89	325.08
D24-SR76A-UP	025YEAR3DAY	22.44	22.77	-0.0042	6985442	725.31	405.41
D24-SR76A-UP	100YEAR3DAY	22.81	22.77	-0.0049	8770302	871.01	454.88
D25-MID5.435-DN	010YEAR1DAY	21.77	22.30	0.0031	12053	122.97	127.93
D25-MID5.435-DN	025YEAR3DAY	22.47	22.30	-0.0013	12053	152.18	176.58
D25-MID5.435-DN	100YEAR3DAY	22.90	22.30	-0.0015	12053	224.61	224.84

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Name	Simulation	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Inflow cfs	Max Outflow cfs
D26-MID5.435-UP	010YEAR1DAY	21.91	22.30	0.0030	4711	122.92	122.97
D26-MID5.435-UP	025YEAR3DAY	22.52	22.30	-0.0012	4711	152.77	152.18
D26-MID5.435-UP	100YEAR3DAY	22.94	22.30	-0.0011	4711	225.66	224.61
D27-MID5.47-DN	010YEAR1DAY	21.93	22.80	0.0029	4711	123.24	122.92
D27-MID5.47-DN	025YEAR3DAY	22.55	22.80	-0.0012	4711	144.66	152.77
D27-MID5.47-DN	100YEAR3DAY	23.00	22.80	-0.0011	4711	205.91	225.66
D28-MID5.47-UP	010YEAR1DAY	22.12	22.80	-0.0074	2562	262.51	123.24
D28-MID5.47-UP	025YEAR3DAY	22.91	22.80	-0.0073	2562	461.32	144.66
D28-MID5.47-UP	100YEAR3DAY	23.08	22.80	-0.0079	2562	553.29	205.91
D29-MID5.558-DN	010YEAR1DAY	22.15	22.80	0.0075	2563	123.29	262.51
D29-MID5.558-DN	025YEAR3DAY	22.96	22.80	0.0073	2563	147.71	461.32
D29-MID5.558-DN	100YEAR3DAY	23.14	22.80	0.0079	2563	184.74	553.29
D30-MID5.558-UP	010YEAR1DAY	22.47	22.80	0.0027	14255	122.71	123.29
D30-MID5.558-UP	025YEAR3DAY	23.02	22.80	-0.0015	14255	152.18	147.71
D30-MID5.558-UP	100YEAR3DAY	23.18	22.80	-0.0014	14255	225.16	184.74
D31-MID5.585-DN	010YEAR1DAY	22.49	23.50	0.0024	14284	122.61	122.71
D31-MID5.585-DN	025YEAR3DAY	23.06	23.50	-0.0015	14256	152.10	152.18
D31-MID5.585-DN	100YEAR3DAY	23.26	23.50	-0.0014	14256	224.61	225.16
D32-MID5.585-UP	010YEAR1DAY	22.79	23.50	0.0029	21066	122.48	122.61
D32-MID5.585-UP	025YEAR3DAY	23.57	23.50	-0.0017	21056	152.10	152.10
D32-MID5.585-UP	100YEAR3DAY	23.70	23.50	-0.0017	21056	224.60	224.61
D33-MID-OUTFALL	010YEAR1DAY	22.85	21.00	0.0026	6905966	451.35	122.48
D33-MID-OUTFALL	025YEAR3DAY	23.63	21.00	-0.0022	9778247	727.42	152.10
D33-MID-OUTFALL	100YEAR3DAY	23.82	21.00	-0.0019	10489383	875.79	224.60
D34-MID6.216-Dn	010YEAR1DAY	22.89	22.90	0.0026	20739	86.73	85.00
D34-MID6.216-Dn	025YEAR3DAY	23.67	22.90	0.0017	20739	182.75	182.01
D34-MID6.216-Dn	100YEAR3DAY	23.89	22.90	0.0017	20739	222.02	221.15
D35-MID6.216-UP	010YEAR1DAY	22.99	22.90	0.0026	10826	87.70	86.73
D35-MID6.216-UP	025YEAR3DAY	23.68	22.90	0.0020	10826	183.13	182.75
D35-MID6.216-UP	100YEAR3DAY	23.90	22.90	0.0020	10826	222.46	222.02
D36-MID6.30-DN	010YEAR1DAY	23.02	22.80	-0.0043	10826	88.70	87.70
D36-MID6.30-DN	025YEAR3DAY	23.72	22.80	0.0020	10826	183.47	183.13
D36-MID6.30-DN	100YEAR3DAY	23.95	22.80	0.0020	10826	222.88	222.46
D37-MID6.30-UP	010YEAR1DAY	23.03	22.80	0.0026	8325	88.88	88.70
D37-MID6.30-UP	025YEAR3DAY	23.73	22.80	-0.0013	8325	183.74	183.47
D37-MID6.30-UP	100YEAR3DAY	23.96	22.80	-0.0013	8325	223.20	222.88
D38-MID6.312-DN	010YEAR1DAY	23.05	23.70	0.0025	81430	97.36	88.88
D38-MID6.312-DN	025YEAR3DAY	23.76	23.70	-0.0013	784388	205.74	183.74
D38-MID6.312-DN	100YEAR3DAY	24.00	23.70	-0.0012	1023691	266.77	223.20
D39-MID6.312-UP	010YEAR1DAY	23.72	23.70	0.0020	3044620	127.81	53.32
D39-MID6.312-UP	025YEAR3DAY	23.91	23.70	-0.0013	3837022	236.62	145.69
D39-MID6.312-UP	100YEAR3DAY	24.02	23.70	-0.0012	4261483	291.29	190.42

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Name	Simulation	Max Flow cfs	Max Delta Q cfs	Max US Stage ft	Max DS Stage ft
34 ST POND	010YEAR1DAY	14.16	-0.157	8.05	7.61
34 ST POND	025YEAR3DAY	25.06	0.119	8.89	8.26
34 ST POND	100YEAR3DAY	29.50	-0.140	9.22	8.51
C00-MAPP-ST LUC	010YEAR1DAY	812.24	0.804	5.58	2.00
C00-MAPP-ST LUC	025YEAR3DAY	1219.72	4.388	6.40	4.00
C00-MAPP-ST LUC	100YEAR3DAY	1391.96	4.388	6.67	4.00
C00-MARTIN-MAPP	010YEAR1DAY	796.81	-14.686	5.77	5.62
C00-MARTIN-MAPP	025YEAR3DAY	1179.77	-8.750	6.63	6.48
C00-MARTIN-MAPP	100YEAR3DAY	1339.46	8.258	6.92	6.76
C01-PINE-MARTIN	010YEAR1DAY	772.89	47.663	8.20	5.77
C01-PINE-MARTIN	025YEAR3DAY	1127.66	47.663	9.39	6.63
C01-PINE-MARTIN	100YEAR3DAY	1273.42	47.663	9.81	6.92
C02-SUNSET-PINE	010YEAR1DAY	781.23	63.434	9.31	8.20
C02-SUNSET-PINE	025YEAR3DAY	1043.12	63.434	10.44	9.39
C02-SUNSET-PINE	100YEAR3DAY	1155.01	63.434	10.85	9.81
C03-GARDENS-SUN	010YEAR1DAY	677.28	0.495	11.41	10.43
C03-GARDENS-SUN	025YEAR3DAY	846.70	0.081	12.65	11.93
C03-GARDENS-SUN	100YEAR3DAY	915.99	0.075	13.15	12.51
C04-VILLAS-GARD	010YEAR1DAY	668.98	0.500	11.99	11.41
C04-VILLAS-GARD	025YEAR3DAY	830.80	0.099	13.09	12.65
C04-VILLAS-GARD	100YEAR3DAY	894.37	0.082	13.55	13.15
C05-MARTIN-VILL	010YEAR1DAY	653.27	0.526	12.43	11.99
C05-MARTIN-VILL	025YEAR3DAY	781.16	-0.080	13.43	13.09
C05-MARTIN-VILL	100YEAR3DAY	847.48	-0.081	13.84	13.55
C06-BARRY-MARTI	010YEAR1DAY	647.21	0.581	13.52	13.12
C06-BARRY-MARTI	025YEAR3DAY	769.50	-0.104	14.39	14.13
C06-BARRY-MARTI	100YEAR3DAY	833.37	-0.092	14.75	14.53
C07-CHURCH-BARR	010YEAR1DAY	641.27	-1.727	15.23	14.12
C07-CHURCH-BARR	025YEAR3DAY	764.18	-1.716	15.96	14.96
C07-CHURCH-BARR	100YEAR3DAY	827.67	-1.720	16.35	15.38
C08-30TH-CHURCH	010YEAR1DAY	629.81	0.499	16.17	15.23
C08-30TH-CHURCH	025YEAR3DAY	751.21	-0.124	16.86	15.96
C08-30TH-CHURCH	100YEAR3DAY	813.33	-0.129	17.20	16.35
C09-H MEAD-30TH	010YEAR1DAY	614.72	0.510	16.61	16.17
C09-H MEAD-30TH	025YEAR3DAY	734.14	-0.293	17.28	16.86
C09-H MEAD-30TH	100YEAR3DAY	793.43	-0.246	17.60	17.20
C10-TURNPK-H ME	010YEAR1DAY	611.38	0.534	17.69	16.85
C10-TURNPK-H ME	025YEAR3DAY	731.87	-0.527	18.29	17.43
C10-TURNPK-H ME	100YEAR3DAY	795.71	-0.611	18.57	17.70
C11-LEIGH-TURNP	010YEAR1DAY	556.38	0.749	18.20	17.99
C11-LEIGH-TURNP	025YEAR3DAY	676.80	-0.708	18.88	18.68
C11-LEIGH-TURNP	100YEAR3DAY	740.20	-0.708	19.20	19.00
C12-MID4.58-LEI	010YEAR1DAY	539.93	42.415	19.78	18.65
C12-MID4.58-LEI	025YEAR3DAY	638.87	42.415	20.52	19.50
C12-MID4.58-LEI	100YEAR3DAY	689.84	42.415	20.83	19.80
C13-42ND-MID4.5	010YEAR1DAY	445.81	1.311	20.09	19.78
C13-42ND-MID4.5	025YEAR3DAY	550.45	1.311	20.79	20.52
C13-42ND-MID4.5	100YEAR3DAY	598.00	1.311	21.08	20.83
C14-MID4.99-42N	010YEAR1DAY	447.81	0.252	21.11	20.25
C14-MID4.99-42N	025YEAR3DAY	554.12	-0.073	21.73	20.89
C14-MID4.99-42N	100YEAR3DAY	602.19	-0.085	22.01	21.18
C15-SR76A-MID4.	010YEAR1DAY	325.54	0.176	21.41	21.11
C15-SR76A-MID4.	025YEAR3DAY	405.92	-0.208	21.98	21.73
C15-SR76A-MID4.	100YEAR3DAY	455.31	-0.231	22.25	22.01
C16-MID5.43-5.2	010YEAR1DAY	127.93	2.006	21.77	21.75
C16-MID5.43-5.2	025YEAR3DAY	176.58	2.184	22.47	22.44
C16-MID5.43-5.2	100YEAR3DAY	224.84	2.512	22.90	22.81
C17-MID5.47-5.4	010YEAR1DAY	122.92	-0.185	21.93	21.91
C17-MID5.47-5.4	025YEAR3DAY	152.77	-0.085	22.55	22.52
C17-MID5.47-5.4	100YEAR3DAY	225.66	-0.082	23.00	22.94
C18-MID5.55-5.4	010YEAR1DAY	262.51	197.351	22.15	22.12
C18-MID5.55-5.4	025YEAR3DAY	461.32	205.160	22.96	22.91
C18-MID5.55-5.4	100YEAR3DAY	553.29	202.541	23.14	23.08
C19-MID5.58-5.5	010YEAR1DAY	122.71	0.089	22.49	22.47
C19-MID5.58-5.5	025YEAR3DAY	152.18	-0.069	23.06	23.02
C19-MID5.58-5.5	100YEAR3DAY	225.16	-0.068	23.26	23.18
C20-MID-OUTFALL	010YEAR1DAY	122.48	1.501	22.85	22.79
C20-MID-OUTFALL	025YEAR3DAY	152.10	-0.414	23.63	23.57
C20-MID-OUTFALL	100YEAR3DAY	224.60	-0.323	23.82	23.70
C21-MID6.21-M	010YEAR1DAY	85.00	2.382	22.89	22.85
C21-MID6.21-M	025YEAR3DAY	182.01	0.743	23.67	23.63

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Name	Simulation	Max Flow cfs	Max Delta Q cfs	Max US Stage ft	Max DS Stage ft
C21-MID6.21-M	100YEAR3DAY	221.15	0.710	23.89	23.82
C22-MID6.30-6.2	010YEAR1DAY	87.70	0.331	23.02	22.99
C22-MID6.30-6.2	025YEAR3DAY	183.13	0.082	23.72	23.68
C22-MID6.30-6.2	100YEAR3DAY	222.46	0.073	23.95	23.90
C23-MID6.312-6.	010YEAR1DAY	88.88	0.144	23.05	23.03
C23-MID6.312-6.	025YEAR3DAY	183.74	0.046	23.76	23.73
C23-MID6.312-6.	100YEAR3DAY	223.20	0.043	24.00	23.96
CHARTER CL 1	010YEAR1DAY	4.91	0.007	8.32	8.28
CHARTER CL 1	025YEAR3DAY	13.93	0.006	10.25	10.12
CHARTER CL 1	100YEAR3DAY	16.36	0.008	10.91	10.77
CHARTER CL 2	010YEAR1DAY	1.11	0.003	8.32	8.28
CHARTER CL 2	025YEAR3DAY	1.10	0.011	10.25	10.12
CHARTER CL 2	100YEAR3DAY	1.10	0.012	10.91	10.77
CORRINE DITCH	010YEAR1DAY	17.36	0.021	7.61	5.86
CORRINE DITCH	025YEAR3DAY	33.01	0.004	8.26	6.63
CORRINE DITCH	100YEAR3DAY	39.73	0.004	8.51	6.92
DAN-01	010YEAR1DAY	782.62	6.454	10.43	9.31
DAN-01	025YEAR3DAY	1046.27	6.454	11.93	10.44
DAN-01	100YEAR3DAY	1158.42	6.454	12.51	10.85
DAN-01-SUNSET	010YEAR1DAY	0.00	0.000	10.43	9.31
DAN-01-SUNSET	025YEAR3DAY	0.00	0.000	11.93	10.44
DAN-01-SUNSET	100YEAR3DAY	0.00	0.000	12.51	10.85
DAN-02	010YEAR1DAY	652.68	0.539	13.12	12.43
DAN-02	025YEAR3DAY	779.34	-0.082	14.13	13.43
DAN-02	100YEAR3DAY	845.45	-0.084	14.53	13.84
DAN-02-MART HWY	010YEAR1DAY	0.00	0.000	13.12	12.43
DAN-02-MART HWY	025YEAR3DAY	0.00	0.000	14.13	13.43
DAN-02-MART HWY	100YEAR3DAY	0.00	0.000	14.53	13.84
DAN-03	010YEAR1DAY	647.16	0.559	14.12	13.52
DAN-03	025YEAR3DAY	769.46	-2.991	14.96	14.39
DAN-03	100YEAR3DAY	833.31	-3.223	15.38	14.75
DAN-03-BERRY AV	010YEAR1DAY	0.00	0.000	14.12	13.52
DAN-03-BERRY AV	025YEAR3DAY	0.00	0.000	14.96	14.39
DAN-03-BERRY AV	100YEAR3DAY	0.00	0.000	15.38	14.75
DAN-04	010YEAR1DAY	610.96	-4.597	16.85	16.61
DAN-04	025YEAR3DAY	623.72	4.093	17.43	17.28
DAN-04	100YEAR3DAY	621.65	4.068	17.70	17.60
DAN-04-HIGH MEA	010YEAR1DAY	0.00	0.000	16.85	16.61
DAN-04-HIGH MEA	025YEAR3DAY	238.56	0.014	17.43	17.28
DAN-04-HIGH MEA	100YEAR3DAY	399.88	0.027	17.70	17.60
DAN-05	010YEAR1DAY	606.91	1.378	17.99	17.69
DAN-05	025YEAR3DAY	726.45	1.202	18.68	18.29
DAN-05	100YEAR3DAY	794.09	-8.214	19.00	18.57
DAN-05-TURNPIKE	010YEAR1DAY	0.00	0.000	17.99	17.69
DAN-05-TURNPIKE	025YEAR3DAY	0.00	0.000	18.68	18.29
DAN-05-TURNPIKE	100YEAR3DAY	0.00	0.000	19.00	18.57
DAN-06	010YEAR1DAY	556.41	2.222	18.65	18.20
DAN-06	025YEAR3DAY	652.51	-2.018	19.50	18.88
DAN-06	100YEAR3DAY	642.19	-2.056	19.80	19.20
DAN-06-LEIGHTON	010YEAR1DAY	0.00	0.000	18.65	18.20
DAN-06-LEIGHTON	025YEAR3DAY	24.47	0.002	19.50	18.88
DAN-06-LEIGHTON	100YEAR3DAY	98.11	0.007	19.80	19.20
DAN-07	010YEAR1DAY	408.50	-13.254	20.25	20.09
DAN-07	025YEAR3DAY	414.53	-13.254	20.89	20.79
DAN-07	100YEAR3DAY	413.70	-13.254	21.18	21.08
DAN-07-42ND AVE	010YEAR1DAY	83.20	0.013	20.25	20.09
DAN-07-42ND AVE	025YEAR3DAY	210.65	0.030	20.89	20.79
DAN-07-42ND AVE	100YEAR3DAY	255.45	0.036	21.18	21.08
DAN-08	010YEAR1DAY	325.08	0.992	21.75	21.41
DAN-08	025YEAR3DAY	405.41	1.971	22.44	21.98
DAN-08	100YEAR3DAY	454.32	1.972	22.81	22.25
DAN-08-SR76A	010YEAR1DAY	0.00	0.000	21.75	21.41
DAN-08-SR76A	025YEAR3DAY	0.00	0.000	22.44	21.98
DAN-08-SR76A	100YEAR3DAY	14.54	-0.001	22.81	22.25
DAN-09	010YEAR1DAY	122.97	0.128	21.91	21.77
DAN-09	025YEAR3DAY	150.35	0.085	22.52	22.47
DAN-09	100YEAR3DAY	151.61	0.097	22.94	22.90
DAN-10	010YEAR1DAY	123.24	1.808	22.12	21.93
DAN-10	025YEAR3DAY	144.66	1.080	22.91	22.55
DAN-10	100YEAR3DAY	145.25	1.186	23.08	23.00

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Name	Simulation	Max Flow cfs	Max Delta Q cfs	Max US Stage ft	Max DS Stage ft
DAN-10 OVER	010YEAR1DAY	0.00	0.000	22.12	21.93
DAN-10 OVER	025YEAR3DAY	38.04	-0.003	22.91	22.55
DAN-10 OVER	100YEAR3DAY	157.69	0.005	23.08	23.00
DAN-12	010YEAR1DAY	123.29	1.410	22.47	22.15
DAN-12	025YEAR3DAY	139.37	0.944	23.02	22.96
DAN-12	100YEAR3DAY	139.12	1.052	23.18	23.14
DAN-12 OVER	010YEAR1DAY	0.00	0.000	22.47	22.15
DAN-12 OVER	025YEAR3DAY	110.26	-0.032	23.02	22.96
DAN-12 OVER	100YEAR3DAY	155.24	-0.035	23.18	23.14
DAN-13	010YEAR1DAY	122.61	-0.120	22.79	22.49
DAN-13	025YEAR3DAY	143.28	-0.112	23.57	23.06
DAN-13	100YEAR3DAY	143.40	-0.108	23.70	23.26
DAN-13 OVER	010YEAR1DAY	0.00	0.000	22.79	22.49
DAN-13 OVER	025YEAR3DAY	19.06	0.001	23.57	23.06
DAN-13 OVER	100YEAR3DAY	99.64	0.005	23.70	23.26
DAN-14	010YEAR1DAY	86.73	6.370	22.99	22.89
DAN-14	025YEAR3DAY	108.64	-3.883	23.68	23.67
DAN-14	100YEAR3DAY	104.73	-3.892	23.90	23.89
DAN-14 OVER	010YEAR1DAY	31.37	-0.002	22.99	22.89
DAN-14 OVER	025YEAR3DAY	162.27	0.013	23.68	23.67
DAN-14 OVER	100YEAR3DAY	201.74	0.017	23.90	23.89
DAN-15	010YEAR1DAY	85.03	-5.924	23.03	23.02
DAN-15	025YEAR3DAY	82.30	-3.777	23.73	23.72
DAN-15	100YEAR3DAY	77.62	-3.766	23.96	23.95
DAN-15 OVER	010YEAR1DAY	63.86	-0.028	23.03	23.02
DAN-15 OVER	025YEAR3DAY	165.45	0.036	23.73	23.72
DAN-15 OVER	100YEAR3DAY	204.53	0.040	23.96	23.95
DAN-16	010YEAR1DAY	49.53	-0.049	23.72	23.05
DAN-16	025YEAR3DAY	45.02	0.021	23.91	23.76
DAN-16	100YEAR3DAY	44.79	0.020	24.02	24.00
DAN-16 OVER	010YEAR1DAY	3.94	-0.001	23.72	23.05
DAN-16 OVER	025YEAR3DAY	113.09	0.012	23.91	23.76
DAN-16 OVER	100YEAR3DAY	172.13	0.017	24.02	24.00
DAN-9 OVER	010YEAR1DAY	0.00	0.000	21.91	21.77
DAN-9 OVER	025YEAR3DAY	77.59	0.004	22.52	22.47
DAN-9 OVER	100YEAR3DAY	186.87	0.010	22.94	22.90
DANFORTH CK	010YEAR1DAY	0.78	-0.000	13.70	13.12
DANFORTH CK	025YEAR3DAY	3.65	-0.001	14.40	14.13
DANFORTH CK	100YEAR3DAY	6.34	0.001	15.00	14.53
GARDENS 1A	010YEAR1DAY	0.00	0.000	12.94	11.41
GARDENS 1A	025YEAR3DAY	0.09	0.000	14.27	12.65
GARDENS 1A	100YEAR3DAY	5.65	0.001	14.49	13.15
GARDENS 1B	010YEAR1DAY	3.69	0.006	12.94	11.41
GARDENS 1B	025YEAR3DAY	4.57	0.001	14.27	12.65
GARDENS 1B	100YEAR3DAY	4.46	0.000	14.49	13.15
GARDENS 2	010YEAR1DAY	0.42	-0.001	14.18	11.99
GARDENS 2	025YEAR3DAY	0.51	-0.001	14.82	13.09
GARDENS 2	100YEAR3DAY	1.94	-0.001	14.90	13.55
GARDENS 3	010YEAR1DAY	6.53	0.014	14.25	11.99
GARDENS 3	025YEAR3DAY	15.34	0.005	14.46	13.09
GARDENS 3	100YEAR3DAY	18.10	-0.006	14.54	13.55
HAMMOCK CK NRT	010YEAR1DAY	26.00	-0.149	16.91	16.17
HAMMOCK CK NRT	025YEAR3DAY	29.18	0.003	17.67	16.86
HAMMOCK CK NRT	100YEAR3DAY	30.94	0.003	17.90	17.20
HAMMOCK CK OVR	010YEAR1DAY	0.00	0.000	16.91	16.17
HAMMOCK CK OVR	025YEAR3DAY	0.00	0.000	17.67	16.86
HAMMOCK CK OVR	100YEAR3DAY	2.43	0.000	17.90	17.20
HUMAN SC 1	010YEAR1DAY	4.49	-0.010	18.65	18.65
HUMAN SC 1	025YEAR3DAY	4.97	0.003	19.50	19.50
HUMAN SC 1	100YEAR3DAY	4.90	0.002	19.80	19.80
HUMAN SC 2	010YEAR1DAY	0.35	-0.006	18.65	18.65
HUMAN SC 2	025YEAR3DAY	0.38	0.003	19.50	19.50
HUMAN SC 2	100YEAR3DAY	0.38	0.003	19.80	19.80
HUMAN SC 3	010YEAR1DAY	5.71	0.005	18.65	18.65
HUMAN SC 3	025YEAR3DAY	7.45	-0.010	19.50	19.50
HUMAN SC 3	100YEAR3DAY	7.88	-0.016	19.80	19.80
IMMAN LUTH	010YEAR1DAY	0.84	0.001	6.35	5.62
IMMAN LUTH	025YEAR3DAY	5.50	0.002	7.17	6.48
IMMAN LUTH	100YEAR3DAY	9.04	0.004	7.43	6.76
MAPLEWOOD-1	010YEAR1DAY	0.60	0.002	6.24	5.62
MAPLEWOOD-1	025YEAR3DAY	0.60	0.000	6.88	6.48

DANFORTH CREEK WATER QUALITY RETROFIT
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EXIST LINK MAXIMUMS

Name	Simulation	Max Flow cfs	Max Delta Q cfs	Max US Stage ft	Max DS Stage ft
MAPLEWOOD-1	100YEAR3DAY	0.56	0.000	7.08	6.76
MAPLEWOOD-2	010YEAR1DAY	2.86	0.006	6.24	5.62
MAPLEWOOD-2	025YEAR3DAY	4.03	0.001	6.88	6.48
MAPLEWOOD-2	100YEAR3DAY	3.81	-0.166	7.08	6.76
MAPLEWOOD-3	010YEAR1DAY	2.23	0.004	6.24	5.62
MAPLEWOOD-3	025YEAR3DAY	15.28	-0.007	6.88	6.48
MAPLEWOOD-3	100YEAR3DAY	18.81	0.005	7.08	6.76
MAPP ROAD BRIDG	010YEAR1DAY	635.88	274.277	5.62	5.58
MAPP ROAD BRIDG	025YEAR3DAY	668.54	431.120	6.48	6.40
MAPP ROAD BRIDG	100YEAR3DAY	669.60	361.986	6.76	6.67
MAPP ROAD OVER	010YEAR1DAY	172.31	-3.143	5.62	5.58
MAPP ROAD OVER	025YEAR3DAY	635.56	2.579	6.48	6.40
MAPP ROAD OVER	100YEAR3DAY	848.78	2.796	6.76	6.67
MONARCH 1	010YEAR1DAY	0.00	0.000	8.95	8.28
MONARCH 1	025YEAR3DAY	7.51	0.001	10.71	10.12
MONARCH 1	100YEAR3DAY	29.57	0.006	11.21	10.77
MONARCH 2	010YEAR1DAY	6.29	0.008	8.95	8.28
MONARCH 2	025YEAR3DAY	5.06	0.001	10.71	10.12
MONARCH 2	100YEAR3DAY	4.89	0.001	11.21	10.77
MONARCH 3	010YEAR1DAY	13.27	0.008	8.95	8.28
MONARCH 3	025YEAR3DAY	26.21	-0.002	10.71	10.12
MONARCH 3	100YEAR3DAY	25.02	0.003	11.21	10.77
OAKBROOK 1	010YEAR1DAY	2.73	-0.000	24.12	23.05
OAKBROOK 1	025YEAR3DAY	12.23	0.001	24.51	23.76
OAKBROOK 1	100YEAR3DAY	17.49	0.009	24.68	24.00
OAKBROOK 2	010YEAR1DAY	14.23	0.004	24.12	23.05
OAKBROOK 2	025YEAR3DAY	17.07	-0.001	24.51	23.76
OAKBROOK 2	100YEAR3DAY	17.96	0.001	24.68	24.00
Palm B. Park 1	010YEAR1DAY	0.00	0.000	17.60	17.69
Palm B. Park 1	025YEAR3DAY	2.32	0.001	18.24	18.29
Palm B. Park 1	100YEAR3DAY	3.85	0.002	18.54	18.57
Palm B. Park 2	010YEAR1DAY	1.27	0.006	17.60	17.69
Palm B. Park 2	025YEAR3DAY	1.55	-0.018	18.24	18.29
Palm B. Park 2	100YEAR3DAY	1.58	-0.020	18.54	18.57
Palm B. Park 3	010YEAR1DAY	0.41	-0.016	17.60	17.69
Palm B. Park 3	025YEAR3DAY	0.43	-0.003	18.24	18.29
Palm B. Park 3	100YEAR3DAY	0.44	-0.003	18.54	18.57
PALM TN SQR	010YEAR1DAY	0.47	0.000	16.29	12.43
PALM TN SQR	025YEAR3DAY	1.66	-0.001	17.23	13.43
PALM TN SQR	100YEAR3DAY	5.52	0.001	17.37	13.84
PINE RIDGE 1	010YEAR1DAY	17.99	0.010	8.28	8.20
PINE RIDGE 1	025YEAR3DAY	62.29	0.011	10.12	9.39
PINE RIDGE 1	100YEAR3DAY	84.45	0.009	10.77	9.81
PINE RIDGE 2	010YEAR1DAY	14.76	0.094	8.28	8.20
PINE RIDGE 2	025YEAR3DAY	15.22	1.939	10.12	9.39
PINE RIDGE 2	100YEAR3DAY	14.98	1.521	10.77	9.81
PRESBYTERIAN 1	010YEAR1DAY	1.50	0.002	17.65	15.23
PRESBYTERIAN 1	025YEAR3DAY	3.25	0.001	18.02	15.96
PRESBYTERIAN 1	100YEAR3DAY	3.43	0.001	18.05	16.35
PRESBYTERIAN 2	010YEAR1DAY	0.37	0.000	17.65	15.23
PRESBYTERIAN 2	025YEAR3DAY	0.39	0.000	18.02	15.96
PRESBYTERIAN 2	100YEAR3DAY	0.39	0.000	18.05	16.35
PRESBYTERIAN 3	010YEAR1DAY	0.00	0.000	17.65	15.23
PRESBYTERIAN 3	025YEAR3DAY	6.39	0.007	18.02	15.96
PRESBYTERIAN 3	100YEAR3DAY	25.97	0.039	18.05	16.35
REGENCY PALMS 1	010YEAR1DAY	5.42	0.020	15.30	13.12
REGENCY PALMS 1	025YEAR3DAY	7.34	0.002	16.04	14.13
REGENCY PALMS 1	100YEAR3DAY	7.97	0.001	16.38	14.53
REGENCY PALMS 2	010YEAR1DAY	1.24	0.002	15.30	13.12
REGENCY PALMS 2	025YEAR3DAY	1.55	0.000	16.04	14.13
REGENCY PALMS 2	100YEAR3DAY	1.59	0.000	16.38	14.53
REGENCY PALMS 3	010YEAR1DAY	0.00	0.000	15.30	13.12
REGENCY PALMS 3	025YEAR3DAY	0.00	0.000	16.04	14.13
REGENCY PALMS 3	100YEAR3DAY	0.00	0.000	16.38	14.53
THE VILLAS 1	010YEAR1DAY	0.00	0.000	14.76	11.99
THE VILLAS 1	025YEAR3DAY	0.11	0.000	15.54	13.09
THE VILLAS 1	100YEAR3DAY	1.57	0.000	15.73	13.55
THE VILLAS 2	010YEAR1DAY	1.52	0.003	14.76	11.99
THE VILLAS 2	025YEAR3DAY	1.85	0.000	15.54	13.09
THE VILLAS 2	100YEAR3DAY	1.92	0.000	15.73	13.55

DANFORTH CREEK WATER QUALITY RETROFIT
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EXIST LINK MAXIMUMS

Name	Simulation	Max Flow cfs	Max Delta Q cfs	Max US Stage ft	Max DS Stage ft
THE VILLAS 3	010YEAR1DAY	0.00	0.000	14.76	11.99
THE VILLAS 3	025YEAR3DAY	0.00	0.000	15.54	13.09
THE VILLAS 3	100YEAR3DAY	0.00	0.000	15.73	13.55

DANFORTH CREEK WATER QUALITY RETROFIT
CAPTEC PROJECT NO. 1207.26
PRE-DEVELOPMENT ICPR MODEL
ICPR INPUT DATA

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==== Basins ====================================================================
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         Name: B01-PINE RIDGE           Node: B01-PINE RIDGE         Status: Onsite
        Group: DANFORTH                 Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                   Peaking Factor: 256.0
          Rainfall File:                  Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000              Time of Conc(min): 30.00
              Area(ac): 47.240                Time Shift(hrs): 0.00
          Curve Number: 75.00             Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00

SFWMD PERMIT # 43-00320-S

--------------------------------------------------------------------------------
         Name: B02-THE CHARTER          Node: B02-THE CHARTER        Status: Onsite
        Group: DANFORTH                 Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                   Peaking Factor: 256.0
          Rainfall File:                  Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000              Time of Conc(min): 30.00
              Area(ac): 41.610                Time Shift(hrs): 0.00
          Curve Number: 68.00             Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00



--------------------------------------------------------------------------------
         Name: B03-MONARCH CNT          Node: B03-MONARCH CNT        Status: Onsite
        Group: DANFORTH                 Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                   Peaking Factor: 256.0
          Rainfall File:                  Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000              Time of Conc(min): 30.00
              Area(ac): 110.000               Time Shift(hrs): 0.00
          Curve Number: 90.00             Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00

BASIN VI-A

--------------------------------------------------------------------------------
         Name: B04-GARDENS 1            Node: B04-GARDENS 1          Status: Onsite
        Group: DANFORTH                 Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                   Peaking Factor: 256.0
          Rainfall File:                  Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000              Time of Conc(min): 15.00
              Area(ac): 24.620                Time Shift(hrs): 0.00
          Curve Number: 83.30             Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00



--------------------------------------------------------------------------------
         Name: B05-GARDENS 2            Node: B05-GARDENS 2          Status: Onsite
        Group: DANFORTH                 Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                   Peaking Factor: 256.0
          Rainfall File:                  Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000              Time of Conc(min): 15.00
              Area(ac): 4.720                 Time Shift(hrs): 0.00
          Curve Number: 79.40             Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00



--------------------------------------------------------------------------------
         Name: B06-GARDENS 3            Node: B06-GARDENS 3          Status: Onsite
        Group: DANFORTH                 Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                   Peaking Factor: 256.0
          Rainfall File:                  Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000              Time of Conc(min): 15.00
              Area(ac): 6.670                 Time Shift(hrs): 0.00
          Curve Number: 80.00             Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00



--------------------------------------------------------------------------------
         Name: B07-THE VILLAS           Node: B07-THE VILLAS         Status: Onsite
        Group: DANFORTH                 Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                   Peaking Factor: 256.0
          Rainfall File:                  Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000              Time of Conc(min): 12.00
              Area(ac): 7.720                 Time Shift(hrs): 0.00
          Curve Number: 83.00             Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00



--------------------------------------------------------------------------------
         Name: B08-PALM TN SQR          Node: B08-PALM TN SQR        Status: Onsite
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        Group: DANFORTH                Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                  Peaking Factor: 256.0
          Rainfall File:                 Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000             Time of Conc(min): 10.00
              Area(ac): 10.190                Time Shift(hrs): 0.00
         Curve Number: 82.00            Max Allowable Q(cfs): 999999.000
              DCIA(%): 0.00

PALM CITY TOWN SQUARE, SFWMD PERMIT # 43-01457-P-02, APPLICATION # 040817-15

--------------------------------------------------------------------------------------------------
         Name: B09-REGENCY PLM         Node: B09-REGENCY PLM        Status: Onsite
        Group: DANFORTH                Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                  Peaking Factor: 256.0
          Rainfall File:                 Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000             Time of Conc(min): 10.00
              Area(ac): 9.930                 Time Shift(hrs): 0.00
         Curve Number: 87.00            Max Allowable Q(cfs): 999999.000
              DCIA(%): 0.00



--------------------------------------------------------------------------------------------------
         Name: B11-PRESBYTERN          Node: B11-PRESBYTERN         Status: Onsite
        Group: DANFORTH                Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                  Peaking Factor: 256.0
          Rainfall File:                 Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000             Time of Conc(min): 10.00
              Area(ac): 9.420                 Time Shift(hrs): 0.00
         Curve Number: 92.00            Max Allowable Q(cfs): 999999.000
              DCIA(%): 0.00

SFWMD PERMIT # 43-01223-P, APPLICATION NO. 010223-13

--------------------------------------------------------------------------------------------------
         Name: B12-HAMMOCK CRK         Node: B12-HAMMOCK CRK        Status: Onsite
        Group: DANFORTH                Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                  Peaking Factor: 256.0
          Rainfall File:                 Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000             Time of Conc(min): 30.00
              Area(ac): 204.670               Time Shift(hrs): 0.00
         Curve Number: 91.00            Max Allowable Q(cfs): 999999.000
              DCIA(%): 0.00



--------------------------------------------------------------------------------------------------
         Name: B13-PLM C B PRK         Node: B13-PLM C B PRK        Status: Onsite
        Group: DANFORTH                Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                  Peaking Factor: 256.0
          Rainfall File:                 Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000             Time of Conc(min): 80.00
              Area(ac): 12.780                Time Shift(hrs): 0.00
         Curve Number: 77.00            Max Allowable Q(cfs): 999999.000
              DCIA(%): 0.00



--------------------------------------------------------------------------------------------------
         Name: B14-HUMAN SOC           Node: B14-HUMAN SC           Status: Onsite
        Group: DANFORTH                Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                  Peaking Factor: 256.0
          Rainfall File:                 Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000             Time of Conc(min): 10.00
              Area(ac): 8.210                 Time Shift(hrs): 0.00
         Curve Number: 91.00            Max Allowable Q(cfs): 999999.000
              DCIA(%): 0.00



--------------------------------------------------------------------------------------------------
         Name: B15-OAKBROOK ES         Node: B15-OAKBROOK ES        Status: Onsite
        Group: DANFORTH                Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                  Peaking Factor: 256.0
          Rainfall File:                 Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000             Time of Conc(min): 60.00
              Area(ac): 278.000               Time Shift(hrs): 0.00
         Curve Number: 93.00            Max Allowable Q(cfs): 999999.000
              DCIA(%): 0.00



--------------------------------------------------------------------------------------------------
         Name: B16-IMMAN LUTH          Node: B16-IMMAN LUTH         Status: Onsite
        Group: DANFORTH                Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                  Peaking Factor: 256.0
          Rainfall File:                 Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000             Time of Conc(min): 10.00
              Area(ac): 4.320                 Time Shift(hrs): 0.00
```

Curve Number: 69.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Immanuel Lutheran Church, SFWMD Permit # 43-00201-S-06

Name: B17-MAPLEWOOD Node: B17-MAPLEWOOD Status: Onsite
Group: DANFORTH Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 13.300 Time Shift(hrs): 0.00
Curve Number: 62.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: B18-34ST POND Node: B18-34ST POND Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 70.00
Area(ac): 72.820 Time Shift(hrs): 0.00
Curve Number: 67.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: B19-COR DITCH Node: B19-COR DITCH Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 40.00
Area(ac): 22.630 Time Shift(hrs): 0.00
Curve Number: 64.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: DANFORTH 01 Node: D39-MID6.312-UP Status: Onsite
Group: DANFORTH Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 166.00
Area(ac): 286.950 Time Shift(hrs): 0.00
Curve Number: 72.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: DANFORTH 02 Node: D38-MID6.312-DN Status: Onsite
Group: DANFORTH Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 95.00
Area(ac): 69.190 Time Shift(hrs): 0.00
Curve Number: 72.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: DANFORTH 03 Node: D33-MID-OUTFALL Status: Onsite
Group: DANFORTH Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 110.00
Area(ac): 508.100 Time Shift(hrs): 0.00
Curve Number: 78.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: DANFORTH 04 Node: D24-SR76A-UP Status: Onsite
Group: DANFORTH Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 137.00
Area(ac): 660.000 Time Shift(hrs): 0.00
Curve Number: 78.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

```
        Name: DANFORTH 05             Node: D22-MID-4.99          Status: Onsite
       Group: DANFORTH                Type: SCS Unit Hydrograph CN

       Unit Hydrograph: Uh256                  Peaking Factor: 256.0
         Rainfall File:                  Storm Duration(hrs): 0.00
   Rainfall Amount(in): 0.000              Time of Conc(min): 95.00
            Area(ac): 309.000                Time Shift(hrs): 0.00
        Curve Number: 75.00             Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00


--------------------------------------------------------------------------------
        Name: DANFORTH 06             Node: D19-MID-4.58          Status: Onsite
       Group: DANFORTH                Type: SCS Unit Hydrograph CN

       Unit Hydrograph: Uh256                  Peaking Factor: 256.0
         Rainfall File:                  Storm Duration(hrs): 0.00
   Rainfall Amount(in): 0.000              Time of Conc(min): 91.00
            Area(ac): 308.000                Time Shift(hrs): 0.00
        Curve Number: 72.00             Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00


--------------------------------------------------------------------------------
        Name: DANFORTH 07             Node: D18-LEIGHTON-UP       Status: Onsite
       Group: DANFORTH                Type: SCS Unit Hydrograph CN

       Unit Hydrograph: Uh256                  Peaking Factor: 256.0
         Rainfall File:                  Storm Duration(hrs): 0.00
   Rainfall Amount(in): 0.000              Time of Conc(min): 81.00
            Area(ac): 126.790                Time Shift(hrs): 0.00
        Curve Number: 76.00             Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00


--------------------------------------------------------------------------------
        Name: DANFORTH 08             Node: D16-TURNPIKE-UP       Status: Onsite
       Group: DANFORTH                Type: SCS Unit Hydrograph CN

       Unit Hydrograph: Uh256                  Peaking Factor: 256.0
         Rainfall File:                  Storm Duration(hrs): 0.00
   Rainfall Amount(in): 0.000              Time of Conc(min): 60.00
            Area(ac): 94.000                 Time Shift(hrs): 0.00
        Curve Number: 81.00             Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00


--------------------------------------------------------------------------------
        Name: DANFORTH 09             Node: D15-TURNPIKE-DN       Status: Onsite
       Group: DANFORTH                Type: SCS Unit Hydrograph CN

       Unit Hydrograph: Uh256                  Peaking Factor: 256.0
         Rainfall File:                  Storm Duration(hrs): 0.00
   Rainfall Amount(in): 0.000              Time of Conc(min): 60.00
            Area(ac): 50.000                 Time Shift(hrs): 0.00
        Curve Number: 85.00             Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00


--------------------------------------------------------------------------------
        Name: DANFORTH 10             Node: D15-TURNPIKE-DN       Status: Onsite
       Group: DANFORTH                Type: SCS Unit Hydrograph CN

       Unit Hydrograph: Uh256                  Peaking Factor: 256.0
         Rainfall File:                  Storm Duration(hrs): 0.00
   Rainfall Amount(in): 0.000              Time of Conc(min): 30.00
            Area(ac): 30.300                 Time Shift(hrs): 0.00
        Curve Number: 64.00             Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00


--------------------------------------------------------------------------------
        Name: DANFORTH 11             Node: D14-HIGH MEA-UP       Status: Onsite
       Group: DANFORTH                Type: SCS Unit Hydrograph CN

       Unit Hydrograph: Uh256                  Peaking Factor: 256.0
         Rainfall File:                  Storm Duration(hrs): 0.00
   Rainfall Amount(in): 0.000              Time of Conc(min): 30.00
            Area(ac): 45.150                 Time Shift(hrs): 0.00
        Curve Number: 64.00             Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00


--------------------------------------------------------------------------------
        Name: DANFORTH 12             Node: D13-HIGH MEA-DN       Status: Onsite
       Group: DANFORTH                Type: SCS Unit Hydrograph CN

       Unit Hydrograph: Uh256                  Peaking Factor: 256.0
         Rainfall File:                  Storm Duration(hrs): 0.00
   Rainfall Amount(in): 0.000              Time of Conc(min): 30.00
```

Area(ac): 29.710 Time Shift(hrs): 0.00
Curve Number: 74.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: DANFORTH 13 Node: D12-30TH AVE Status: Onsite
Group: DANFORTH Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 30.00
Area(ac): 30.900 Time Shift(hrs): 0.00
Curve Number: 74.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: DANFORTH 14 Node: D11-CHURCH-OUT Status: Onsite
Group: DANFORTH Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 60.00
Area(ac): 65.270 Time Shift(hrs): 0.00
Curve Number: 74.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: DANFORTH 15 Node: D10-BERRY AV UP Status: Onsite
Group: DANFORTH Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 60.00
Area(ac): 33.000 Time Shift(hrs): 0.00
Curve Number: 74.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: DANFORTH 16 Node: D08-MARTN HY-UP Status: Onsite
Group: DANFORTH Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 30.00
Area(ac): 11.210 Time Shift(hrs): 0.00
Curve Number: 83.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: DANFORTH 17 Node: D06-VILLAS-OUT Status: Onsite
Group: DANFORTH Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 30.00
Area(ac): 15.320 Time Shift(hrs): 0.00
Curve Number: 63.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: DANFORTH 18 Node: D05-GARDENS 1 Status: Onsite
Group: DANFORTH Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 30.00
Area(ac): 9.070 Time Shift(hrs): 0.00
Curve Number: 63.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: DANFORTH 19&21 Node: D04-SUNSET-UP Status: Onsite
Group: DANFORTH Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 60.00
Area(ac): 40.220 Time Shift(hrs): 0.00
Curve Number: 80.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

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--------------------------------------------------------------------------------------------
        Name: DANFORTH 20             Node: D04-SUNSET-UP          Status: Onsite
       Group: DANFORTH                Type: SCS Unit Hydrograph CN

       Unit Hydrograph: Uh256                  Peaking Factor: 256.0
         Rainfall File:                Storm Duration(hrs): 0.00
   Rainfall Amount(in): 0.000            Time of Conc(min): 60.00
            Area(ac): 77.270               Time Shift(hrs): 0.00
        Curve Number: 89.00           Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00



--------------------------------------------------------------------------------------------
        Name: DANFORTH 22             Node: D02-PINE RIDGE         Status: Onsite
       Group: DANFORTH                Type: SCS Unit Hydrograph CN

       Unit Hydrograph: Uh256                  Peaking Factor: 256.0
         Rainfall File:                Storm Duration(hrs): 0.00
   Rainfall Amount(in): 0.000            Time of Conc(min): 30.00
            Area(ac): 40.900               Time Shift(hrs): 0.00
        Curve Number: 72.00           Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00



--------------------------------------------------------------------------------------------
        Name: DANFORTH 23             Node: D01-MARTIN DN          Status: Onsite
       Group: DANFORTH                Type: SCS Unit Hydrograph CN

       Unit Hydrograph: Uh256                  Peaking Factor: 256.0
         Rainfall File:                Storm Duration(hrs): 0.00
   Rainfall Amount(in): 0.000            Time of Conc(min): 30.00
            Area(ac): 18.900               Time Shift(hrs): 0.00
        Curve Number: 65.00           Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00



--------------------------------------------------------------------------------------------
        Name: MAPP ROAD DN            Node: D00-MAPP RD DN         Status: Onsite
       Group: DANFORTH                Type: SCS Unit Hydrograph CN

       Unit Hydrograph: Uh256                  Peaking Factor: 256.0
         Rainfall File:                Storm Duration(hrs): 0.00
   Rainfall Amount(in): 0.000            Time of Conc(min): 10.00
            Area(ac): 18.900               Time Shift(hrs): 0.00
        Curve Number: 70.00           Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00



--------------------------------------------------------------------------------------------
        Name: MAPP ROAD UP            Node: D00-MAPP RD UP         Status: Onsite
       Group: DANFORTH                Type: SCS Unit Hydrograph CN

       Unit Hydrograph: Uh256                  Peaking Factor: 256.0
         Rainfall File:                Storm Duration(hrs): 0.00
   Rainfall Amount(in): 0.000            Time of Conc(min): 15.00
            Area(ac): 20.370               Time Shift(hrs): 0.00
        Curve Number: 80.00           Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00



--------------------------------------------------------------------------------------------
        Name: MARTIN DN BLVD          Node: B01-PINE RIDGE         Status: Onsite
       Group: DANFORTH                Type: SCS Unit Hydrograph CN

       Unit Hydrograph: Uh256                  Peaking Factor: 256.0
         Rainfall File:                Storm Duration(hrs): 0.00
   Rainfall Amount(in): 0.000            Time of Conc(min): 30.00
            Area(ac): 17.670               Time Shift(hrs): 0.00
        Curve Number: 90.00           Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00



--------------------------------------------------------------------------------------------
        Name: MARTIN DOWN BLV         Node: D01-MARTIN DN          Status: Onsite
       Group: DANFORTH                Type: SCS Unit Hydrograph CN

       Unit Hydrograph: Uh256                  Peaking Factor: 256.0
         Rainfall File:                Storm Duration(hrs): 0.00
   Rainfall Amount(in): 0.000            Time of Conc(min): 10.00
            Area(ac): 5.130                Time Shift(hrs): 0.00
        Curve Number: 80.00           Max Allowable Q(cfs): 999999.000
             DCIA(%): 0.00



--------------------------------------------------------------------------------------------
        Name: PL CT EL SCH            Node: D06-VILLAS-OUT         Status: Onsite
       Group: DANFORTH                Type: SCS Unit Hydrograph CN

       Unit Hydrograph: Uh256                  Peaking Factor: 256.0
         Rainfall File:                Storm Duration(hrs): 0.00
```

Rainfall Amount(in): 0.000 Time of Conc(min): 30.00
Area(ac): 36.150 Time Shift(hrs): 0.00
Curve Number: 87.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Nodes

Name: B01-PINE RIDGE Base Flow(cfs): 0.000 Init Stage(ft): 4.000
Group: DANFORTH Warn Stage(ft): 9.150
Type: Stage/Area

Stage(ft)	Area(ac)
4.000	5.5000
4.500	5.5000
5.000	5.5000
5.500	5.5000
6.000	5.5000
6.500	5.5000
7.000	5.5000
7.500	5.5000
8.000	5.5000
8.500	5.5000
9.000	5.5000
9.500	5.5000
10.000	5.5000
10.500	14.0700
11.000	22.6400
11.500	31.2100
12.000	39.7800
12.500	39.7800
13.000	39.7800

Name: B02-THE CHARTER Base Flow(cfs): 0.000 Init Stage(ft): 4.000
Group: DANFORTH Warn Stage(ft): 8.890
Type: Stage/Area

SFWMD PERMIT # 43-00320-S, APPLICATION NO # 06307-B

Stage(ft)	Area(ac)
4.000	3.0000
4.500	3.1100
5.000	3.2200
5.500	3.3300
6.000	3.4400
6.500	3.5500
7.000	3.6600
7.500	3.7700
8.000	3.8800
8.500	3.9900
9.000	4.1000
9.500	4.2100
10.000	4.3200
10.500	5.9400
11.000	7.5700
11.500	30.0900
12.000	31.7200
12.500	31.7200

Name: B03-MONARCH CNT Base Flow(cfs): 0.000 Init Stage(ft): 6.000
Group: DANFORTH Warn Stage(ft): 12.000
Type: Stage/Area

Stage(ft)	Area(ac)
6.000	11.1000
6.500	11.4700
7.000	11.8300
7.500	12.2000
8.000	12.5600
8.500	12.9300
9.000	13.2900
9.500	13.6600
10.000	14.0200
10.500	14.3900
11.000	14.7500
11.500	37.5000
12.000	60.2400
12.500	82.6200
13.000	105.0000
13.500	105.0000
14.000	105.0000

Name: B04-GARDENS 1 Base Flow(cfs): 0.000 Init Stage(ft): 10.500
Group: DANFORTH Warn Stage(ft): 14.150

Type: Stage/Area

Stage(ft)	Area(ac)
10.500	2.4800
11.000	2.5900
11.500	2.7100
12.000	2.8200
12.500	2.9300
13.000	3.0400
13.500	3.1600
14.000	5.6000
14.500	8.0400
15.000	10.3700
15.500	12.6900
16.000	15.0200
16.500	17.3500
17.000	19.6800
17.500	19.6800
18.000	19.6800
18.500	19.6800
19.000	19.6800
19.500	19.6800
20.000	19.6800

Name: B05-GARDENS 2 Base Flow(cfs): 0.000 Init Stage(ft): 10.500
Group: DANFORTH Warn Stage(ft): 14.710
Type: Stage/Area

Stage(ft)	Area(ac)
10.500	0.0000
11.490	0.0000
11.500	0.2700
12.000	0.3000
12.500	0.3400
13.000	0.3700
13.500	0.4100
14.000	1.0000
14.500	1.6000
15.000	2.2000
15.500	2.7600
16.000	3.3200
16.500	3.8800
17.000	3.8800
17.500	3.8800
18.000	3.8800
18.500	3.8800
19.000	3.8800
19.500	3.8800
20.000	3.8800

Name: B06-GARDENS 3 Base Flow(cfs): 0.000 Init Stage(ft): 10.500
Group: DANFORTH Warn Stage(ft): 14.710
Type: Stage/Area

Stage(ft)	Area(ac)
10.500	0.0000
11.490	0.0000
11.500	0.1100
12.000	0.1300
12.500	0.1400
13.000	0.1600
13.500	0.1700
14.000	1.2500
14.500	2.3200
15.000	3.4000
15.500	4.4600
16.000	5.5200
16.500	6.5800
17.000	6.5800
17.500	6.5800
18.000	6.5800
18.500	6.5800
19.000	6.5800
19.500	6.5800
20.000	6.5800
20.500	6.5800

Name: B07-THE VILLAS Base Flow(cfs): 0.000 Init Stage(ft): 12.500
Group: DANFORTH Warn Stage(ft): 15.400
Type: Stage/Area

Stage(ft)	Area(ac)

12.500	0.7300
13.000	0.7800
13.500	0.8300
14.000	0.8900
14.500	0.9400
15.000	1.6900
15.500	2.6900
16.000	3.6400
16.500	4.5900
17.000	5.5400
17.500	5.5400
18.000	5.5400
18.500	5.5400
19.000	5.5400
19.500	5.5400
20.000	5.5400
20.500	5.5400
21.000	5.5400
21.500	5.5400

Name: B08-PALM TN SQR Base Flow(cfs): 0.000 Init Stage(ft): 12.000
Group: DANFORTH Warn Stage(ft): 17.170
Type: Stage/Area

PALM CITY TOWN SQUARE, SFWMD PERMIT # 43-01457-P-02, APPLICATION # 040817-15

Stage(ft)	Area(ac)
12.000	0.0000
12.990	0.0000
13.000	0.6100
13.500	0.7000
14.000	0.7900
14.500	0.8800
15.000	0.9700
15.200	1.0100
15.500	1.2100
16.000	1.5600
16.500	1.9000
17.000	2.2400
17.850	5.8100
18.000	6.4200
18.500	8.4400
19.000	8.4400
19.500	8.4400
20.000	8.4400
20.500	8.4400
21.000	8.4400
21.500	8.4400

Name: B09-REGENCY PLM Base Flow(cfs): 0.000 Init Stage(ft): 13.500
Group: DANFORTH Warn Stage(ft): 16.920
Type: Stage/Area

Stage(ft)	Area(ac)
13.500	1.0800
14.000	1.1900
14.500	1.3000
15.000	1.4200
15.500	1.5300
16.000	1.6400
16.500	1.7500
17.000	3.0500
17.500	4.2900
18.000	5.5200
18.500	6.7500
19.000	7.9900
19.200	8.4800
19.500	8.4800
20.000	8.4800
20.500	8.4800
21.000	8.4800
21.500	8.4800
22.000	8.4800

Name: B10-DANFORTH RS Base Flow(cfs): 0.000 Init Stage(ft): 12.000
Group: DANFORTH Warn Stage(ft): 14.400
Type: Time/Stage

DANFORTH DEVELOPMENT, SFWMD PERMIT # 43-0391-S, APPLICATION NO. 930129-5 (POP-OFF STRUCTURE)

Time(hrs)	Stage(ft)
0.00	12.000
20.00	13.700
36.00	12.000
99.00	12.000

Name: B11-PRESBYTERN Base Flow(cfs): 0.000 Init Stage(ft): 15.000
Group: DANFORTH Warn Stage(ft): 18.000

Type: Stage/Area

Stage(ft)	Area(ac)
15.000	0.1800
15.500	0.1800
15.990	0.1800
16.000	0.6500
16.500	0.7100
17.000	2.0200
17.500	3.3300
18.000	4.5800
18.500	6.4400
19.000	8.3000
19.500	8.9000
20.000	8.9000
20.500	8.9000
21.000	8.9000
21.500	8.9000
22.000	8.9000

Name: B12-HAMMOCK CRK Base Flow(cfs): 0.000 Init Stage(ft): 13.000
Group: DANFORTH Warn Stage(ft): 17.700
Type: Stage/Area

SFWMD PERMIT # 43-00825-S

Stage(ft)	Area(ac)
13.000	18.5000
13.500	18.5000
14.000	18.5000
14.500	18.5000
15.000	18.5000
15.500	18.5000
16.000	18.5000
16.190	18.5000
16.200	29.1400
16.390	29.1400
16.400	30.5300
16.490	30.5300
16.500	31.5600
16.590	31.5600
16.600	32.9600
17.000	32.9600
17.190	51.8000
17.200	55.5700
17.500	85.3200
18.000	134.9000
18.500	184.4800
19.000	184.4800
19.500	184.4800
20.000	184.4800
20.500	184.4800

Name: B13-PLM C B PRK Base Flow(cfs): 0.000 Init Stage(ft): 14.500
Group: DANFORTH Warn Stage(ft): 17.750
Type: Stage/Area

Stage(ft)	Area(ac)
14.500	0.0000
15.490	0.0000
15.500	0.8900
16.000	1.0400
16.500	1.2000
17.000	1.3500
17.400	5.1200
17.500	6.3400
18.000	7.8200
18.500	9.2400
19.000	10.6600
19.500	10.6600
20.000	10.6600
20.500	10.6600
21.000	10.6600
21.500	10.6600
22.000	10.6600
22.500	10.6600
23.000	10.6600
23.500	10.6600
24.000	10.6600

Name: B14-HUMAN SC Base Flow(cfs): 0.000 Init Stage(ft): 15.000
Group: DANFORTH Warn Stage(ft): 17.850
Type: Stage/Area

Humane Society of Trasure Coast
SFWMD Permit # 43-00700-S
Application # 011016-5

Stage(ft)	Area(ac)
15.000	0.7100
15.500	0.8600
16.000	1.0200
16.490	1.1700
16.500	1.2400
17.000	1.5400
17.500	1.8300
18.000	2.5400
18.500	3.2500
19.000	3.9600
19.500	4.6700
20.000	5.3800
20.500	6.0900
21.000	6.8000
21.500	6.8000
22.000	6.8000
22.500	6.8000
23.000	6.8000
23.500	6.8000

Name: B15-OAKBROOK ES Base Flow(cfs): 0.000 Init Stage(ft): 23.000
Group: DANFORTH Warn Stage(ft): 25.000
Type: Stage/Area

Stage(ft)	Area(ac)
23.000	33.0000
23.100	45.6000
23.200	58.2000
23.300	70.8000
23.400	83.4000
23.500	96.0000
23.600	108.6000
23.700	121.2000
23.800	133.8000
23.900	146.4000
24.000	159.0000
24.100	169.7000
24.200	180.4000
24.300	191.1000
24.400	201.8000
24.500	212.5000
24.600	223.2000
24.700	233.9000
24.800	244.6000
24.900	255.3000
25.000	266.0000
25.100	267.2000
25.200	268.4000
25.300	269.6000
25.400	270.8000
25.500	272.0000
25.600	273.2000
25.700	274.4000
25.800	275.6000
25.900	276.8000
26.000	278.0000

Name: B16-IMMAN LUTH Base Flow(cfs): 0.000 Init Stage(ft): 4.000
Group: DANFORTH Warn Stage(ft): 7.150
Type: Stage/Area

Stage(ft)	Area(ac)
4.000	0.0000
4.990	0.0000
5.000	0.3800
5.500	0.4400
6.000	0.4900
6.500	0.5500
7.000	0.6100
7.500	0.6600
8.000	0.7200
8.500	0.7200
8.600	0.7200
9.000	1.1800
9.500	2.8900
9.600	3.2300
10.000	4.1400
10.500	4.1400
11.000	4.1400
11.500	4.1400
12.000	4.1400
12.500	4.1400
13.000	4.1400

Name: B17-MAPLEWOOD Base Flow(cfs): 0.000 Init Stage(ft): 5.000

Group: DANFORTH Warn Stage(ft): 6.000
Type: Stage/Area

Stage(ft)	Area(ac)
5.000	0.9200
5.500	0.9200
6.000	0.9200
6.500	1.8400
7.000	2.7600
7.500	3.6700
8.000	4.5900
8.500	5.5100
9.000	6.4200
9.500	7.3400
10.000	8.2600
10.500	9.1800
11.000	10.1000
11.500	11.0100
12.000	11.9300

Name: B18-34ST POND Base Flow(cfs): 0.000 Init Stage(ft): 6.500
Group: DANFORTH Warn Stage(ft): 9.500
Type: Stage/Area

Stage(ft)	Area(ac)
6.500	2.3400
6.870	2.4800
6.880	3.7800
7.000	3.8400
7.500	7.4300
8.000	11.0300
8.390	13.8300
8.400	14.7200
8.500	15.4400
9.000	19.0700
9.500	21.5400
9.690	22.7500
9.700	24.4100
10.000	26.2600
10.500	29.3600
10.770	31.0300
11.000	32.6100
11.500	36.0400
12.000	39.4300
12.500	42.8200
13.000	46.2100
13.500	49.6100
14.000	53.0000
14.500	56.3900
15.000	59.7800
15.500	63.1800
16.000	66.5700
16.500	66.5700

Name: B19-COR DITCH Base Flow(cfs): 0.000 Init Stage(ft): 6.020
Group: DANFORTH Warn Stage(ft): 7.000
Type: Stage/Area

Stage/Storage is overbank storage for Corrine Ditch

Stage(ft)	Area(ac)
4.500	0.0000
5.000	0.1700
5.500	0.3400
6.000	0.5100
6.500	0.6800
7.000	0.8500
7.500	1.0100
8.000	1.1800
8.500	1.3500
8.990	1.5200
9.000	1.9300
9.500	2.1600
10.000	2.7800
10.500	5.7200
11.000	8.6600
11.500	11.5500

Name: D-00 RIVER TW Base Flow(cfs): 0.000 Init Stage(ft): 2.000
Group: BASE Warn Stage(ft): 2.000
Type: Time/Stage

Time(hrs)	Stage(ft)
0.00	2.000

360.00	2.000	

Name: D00-MAPP RD DN Base Flow(cfs): 0.000 Init Stage(ft): 2.000
Group: BASE Warn Stage(ft): 5.000
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D00-MAPP RD UP Base Flow(cfs): 0.000 Init Stage(ft): 2.000
Group: BASE Warn Stage(ft): 5.000
Type: Stage/Area

Stage(ft)	Area(ac)
6.000	2.0000
10.000	18.3700

Name: D01-MARTIN DN Base Flow(cfs): 0.000 Init Stage(ft): 2.000
Group: DANFORTH Warn Stage(ft): 7.500
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D02-PINE RIDGE Base Flow(cfs): 0.000 Init Stage(ft): 3.000
Group: DANFORTH Warn Stage(ft): 10.000
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D03-SUNSET-DN Base Flow(cfs): 0.000 Init Stage(ft): 4.000
Group: DANFORTH Warn Stage(ft): 13.240
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D04-SUNSET-UP Base Flow(cfs): 0.000 Init Stage(ft): 4.000
Group: DANFORTH Warn Stage(ft): 13.240
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D05-GARDENS 1 Base Flow(cfs): 0.000 Init Stage(ft): 5.000
Group: DANFORTH Warn Stage(ft): 15.000
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D06-VILLAS-OUT Base Flow(cfs): 0.000 Init Stage(ft): 5.220
Group: DANFORTH Warn Stage(ft): 15.000
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D07-MARN HY-DN Base Flow(cfs): 0.000 Init Stage(ft): 5.220
Group: DANFORTH Warn Stage(ft): 18.200
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D08-MARTN HY-UP Base Flow(cfs): 0.000 Init Stage(ft): 5.840
Group: DANFORTH Warn Stage(ft): 18.200

Type: Stage/Area

Stage(ft)	Area(ac)

Name: D09-BARRY AV DN Base Flow(cfs): 0.000 Init Stage(ft): 6.030
Group: DANFORTH Warn Stage(ft): 16.100
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D10-BERRY AV UP Base Flow(cfs): 0.000 Init Stage(ft): 6.320
Group: DANFORTH Warn Stage(ft): 16.100
Type: Stage/Area

Stage(ft)	Area(ac)
16.000	0.9000
18.000	33.0000

Name: D11-CHURCH-OUT Base Flow(cfs): 0.000 Init Stage(ft): 7.000
Group: DANFORTH Warn Stage(ft): 16.000
Type: Stage/Area

Stage(ft)	Area(ac)
16.000	1.9300
19.000	65.2700

Name: D12-30TH AVE Base Flow(cfs): 0.000 Init Stage(ft): 7.470
Group: DANFORTH Warn Stage(ft): 15.000
Type: Stage/Area

Stage(ft)	Area(ac)
16.000	1.0100
18.000	30.9000

Name: D13-HIGH MEA-DN Base Flow(cfs): 0.000 Init Stage(ft): 7.470
Group: DANFORTH Warn Stage(ft): 17.000
Type: Stage/Area

Stage(ft)	Area(ac)
16.000	0.4000
19.000	29.7100

Name: D14-HIGH MEA-UP Base Flow(cfs): 0.000 Init Stage(ft): 8.030
Group: DANFORTH Warn Stage(ft): 17.000
Type: Stage/Area

Stage(ft)	Area(ac)
16.000	0.8000
18.000	45.1500

Name: D15-TURNPIKE-DN Base Flow(cfs): 0.000 Init Stage(ft): 10.100
Group: DANFORTH Warn Stage(ft): 19.260
Type: Stage/Area

Stage(ft)	Area(ac)
16.000	0.6000
18.000	30.3000

Name: D16-TURNPIKE-UP Base Flow(cfs): 22.300 Init Stage(ft): 10.330
Group: DANFORTH Warn Stage(ft): 19.260
Type: Stage/Area

Base flow is added for discharge capacity of Langford Grove (10,000 GPM)

Stage(ft) Area(ac)

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Name: D17-LEIGHTON-DN Base Flow(cfs): 0.000 Init Stage(ft): 10.490
Group: DANFORTH Warn Stage(ft): 19.150
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D18-LEIGHTON-UP Base Flow(cfs): 0.000 Init Stage(ft): 10.900
Group: DANFORTH Warn Stage(ft): 19.150
Type: Stage/Area

Stage(ft)	Area(ac)
17.000	0.6500
25.000	126.0000

Name: D19-MID-4.58 Base Flow(cfs): 0.000 Init Stage(ft): 14.000
Group: DANFORTH Warn Stage(ft): 19.000
Type: Stage/Area

Stage(ft)	Area(ac)
19.000	1.6000
25.000	308.0000

Name: D20-42ND AVE-DN Base Flow(cfs): 0.000 Init Stage(ft): 14.000
Group: DANFORTH Warn Stage(ft): 19.610
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D21-42ND AVE-UP Base Flow(cfs): 0.000 Init Stage(ft): 14.000
Group: DANFORTH Warn Stage(ft): 19.610
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D22-MID-4.99 Base Flow(cfs): 0.000 Init Stage(ft): 14.000
Group: DANFORTH Warn Stage(ft): 18.000
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D23-SR76A-DN Base Flow(cfs): 0.000 Init Stage(ft): 15.000
Group: DANFORTH Warn Stage(ft): 22.770
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D24-SR76A-UP Base Flow(cfs): 0.000 Init Stage(ft): 15.000
Group: DANFORTH Warn Stage(ft): 22.770
Type: Stage/Area

Stage(ft)	Area(ac)
21.000	2.3400
27.000	660.0000

Name: D25-MID5.435-DN Base Flow(cfs): 0.000 Init Stage(ft): 16.100
Group: DANFORTH Warn Stage(ft): 22.300
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D26-MID5.435-UP Base Flow(cfs): 0.000 Init Stage(ft): 16.300
Group: DANFORTH Warn Stage(ft): 22.300
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D27-MID5.47-DN Base Flow(cfs): 0.000 Init Stage(ft): 16.570
Group: DANFORTH Warn Stage(ft): 22.800
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D28-MID5.47-UP Base Flow(cfs): 0.000 Init Stage(ft): 16.570
Group: DANFORTH Warn Stage(ft): 22.800
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D29-MID5.558-DN Base Flow(cfs): 0.000 Init Stage(ft): 17.000
Group: DANFORTH Warn Stage(ft): 22.800
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D30-MID5.558-UP Base Flow(cfs): 0.000 Init Stage(ft): 17.000
Group: DANFORTH Warn Stage(ft): 22.800
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D31-MID5.585-DN Base Flow(cfs): 0.000 Init Stage(ft): 17.000
Group: DANFORTH Warn Stage(ft): 23.500
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D32-MID5.585-UP Base Flow(cfs): 0.000 Init Stage(ft): 17.000
Group: DANFORTH Warn Stage(ft): 23.500
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D33-MID-OUTFALL Base Flow(cfs): 0.000 Init Stage(ft): 18.000
Group: DANFORTH Warn Stage(ft): 21.000
Type: Stage/Area

Stage(ft)	Area(ac)
21.000	1.7500
27.000	508.0000

Name: D34-MID6.216-Dn Base Flow(cfs): 0.000 Init Stage(ft): 18.620
Group: DANFORTH Warn Stage(ft): 22.900
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D35-MID6.216-UP Base Flow(cfs): 0.000 Init Stage(ft): 18.620
Group: DANFORTH Warn Stage(ft): 22.900
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D36-MID6.30-DN Base Flow(cfs): 0.000 Init Stage(ft): 18.620
Group: DANFORTH Warn Stage(ft): 22.800
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D37-MID6.30-UP Base Flow(cfs): 0.000 Init Stage(ft): 18.620
Group: DANFORTH Warn Stage(ft): 22.800
Type: Stage/Area

Stage(ft)	Area(ac)

Name: D38-MID6.312-DN Base Flow(cfs): 0.000 Init Stage(ft): 18.620
Group: DANFORTH Warn Stage(ft): 23.700
Type: Stage/Area

Stage(ft)	Area(ac)
18.620	0.0000
23.000	0.5000
26.000	69.1900

Name: D39-MID6.312-UP Base Flow(cfs): 0.000 Init Stage(ft): 19.100
Group: DANFORTH Warn Stage(ft): 23.700
Type: Stage/Area

Stage(ft)	Area(ac)
19.100	0.0000
23.000	1.0000
26.000	286.9500

Cross Sections

Name: CORRINE DITCH 1 Group: DANFORTH
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	9.960	0.035000
6.760	6.520	0.035000
8.920	6.080	0.035000
12.620	5.650	0.035000
15.600	6.020	0.035000
18.870	8.580	0.035000
19.000	10.000	0.035000

Name: CORRINE DITCH 9 Group: DANFORTH
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	10.040	0.035000
10.120	2.570	0.035000
10.440	1.700	0.035000
12.860	2.180	0.035000
12.970	2.610	0.035000
19.220	6.600	0.035000

Name: MAPP RD DN Group: DANFORTH
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	10.000	0.050000
0.000	3.000	0.050000
50.000	2.000	0.050000

60.000	1.000	0.050000
69.000	-1.500	0.050000
78.000	1.000	0.050000
79.000	2.000	0.050000
83.000	3.000	0.050000
110.000	4.000	0.050000
158.000	5.000	0.050000
169.000	6.000	0.050000
188.000	7.000	0.050000
200.000	8.000	0.050000
250.000	9.000	0.050000

Name: MAPP RD PROF Group: DANFORTH
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	5.000	0.000000
100.000	4.250	0.000000
200.000	5.500	0.000000
300.000	5.450	0.000000
400.000	6.420	0.000000
500.000	7.230	0.000000
600.000	7.740	0.000000

Name: X-1033 Group: DANFORTH
Encroachment: No

Martin County NPDES Stormwater Inventory, cross section 1033

Station(ft)	Elevation(ft)	Manning's N
0.000	17.410	0.040000
15.060	11.040	0.040000
28.420	10.990	0.040000
42.660	18.070	0.040000

Name: X-1043 Group: DANFORTH
Encroachment: No

Martin County NPDES Stormwater Inventory, cross section 1043

Station(ft)	Elevation(ft)	Manning's N
0.000	16.810	0.040000
18.830	10.900	0.040000
30.840	10.490	0.040000
40.880	16.950	0.040000

Name: X-1141 Group: DANFORTH
Encroachment: No

Martin County NPDES Stormwater Inventory, cross section 1141

Station(ft)	Elevation(ft)	Manning's N
0.000	17.210	0.040000
4.350	14.340	0.040000
20.070	14.460	0.040000
25.670	19.540	0.040000

Name: X-1154 Group: DANFORTH
Encroachment: No

Martin County NPDES Stormwater Inventory, cross section 1154

Station(ft)	Elevation(ft)	Manning's N
0.000	20.450	0.040000
15.890	12.750	0.040000
30.220	14.700	0.040000
44.150	20.690	0.040000

Name: X-1338 Group: DANFORTH
Encroachment: No

Martin County NPDES Stormwater Inventory, cross section 1338

Station(ft)	Elevation(ft)	Manning's N
0.000	22.040	0.040000
5.480	19.650	0.040000
13.080	19.510	0.040000
22.770	23.790	0.040000

Name: X-1349 Group: DANFORTH
Encroachment: No

Martin County NPDES Stormwater Inventory, cross section 1349

Station(ft)	Elevation(ft)	Manning's N
0.000	21.570	0.040000
14.840	18.620	0.040000
28.460	18.630	0.040000
37.060	21.830	0.040000

Name: X-2805 Group: DANFORTH
Encroachment: No

Martin County NPDES Stormwater Inventory, cross section 2805

Station(ft)	Elevation(ft)	Manning's N
0.000	15.450	0.040000
14.010	7.470	0.040000
23.780	7.900	0.040000
44.570	16.610	0.040000

Name: X-2823 Group: DANFORTH
Encroachment: No

Martin County NPDES Stormwater Inventory, cross section 2823

Station(ft)	Elevation(ft)	Manning's N
0.000	15.530	0.040000
10.490	8.340	0.040000
30.640	9.240	0.040000
44.350	17.610	0.040000

Name: X-2831 Group: DANFORTH
Encroachment: No

Martin County NPDES Stormwater Inventory, cross section 2831

Station(ft)	Elevation(ft)	Manning's N
0.000	16.040	0.040000
17.700	6.690	0.040000
37.610	5.890	0.040000
56.960	15.320	0.040000

Name: X-2854 Group: DANFORTH
Encroachment: No

Martin County NPDES Stormwater Inventory, cross section 2854

Station(ft)	Elevation(ft)	Manning's N
0.000	16.810	0.040000
16.910	5.860	0.040000
29.620	5.180	0.040000
32.440	11.080	0.040000

Name: X-2860 Group: DANFORTH
Encroachment: No

Martin County NPDES Stormwater Inventory, cross section 2860

Station(ft)	Elevation(ft)	Manning's N
0.000	15.290	0.040000
39.900	6.380	0.040000
56.250	6.030	0.040000
81.900	15.160	0.040000

Name: X-2874 Group: DANFORTH
Encroachment: No

Martin County NPDES Stormwater Inventory, cross section 2874

Station(ft)	Elevation(ft)	Manning's N
0.000	14.460	0.040000
23.950	5.440	0.040000
42.700	5.220	0.040000
74.200	15.610	0.040000

Name: X-42ND-AV Group: DANFORTH
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	19.400	0.040000
5.000	17.400	0.040000

9.300	13.500	0.040000
12.300	12.400	0.040000
18.600	12.400	0.040000
24.300	12.200	0.040000
27.300	13.000	0.040000
29.600	14.700	0.040000
44.600	20.400	0.040000

Name: X-6641 Group: DANFORTH
Encroachment: No

Martin County NPDES Stormwater Inventory, cross section 6641

Station(ft)	Elevation(ft)	Manning's N
0.000	17.750	0.040000
14.780	10.760	0.040000
28.690	9.780	0.040000
46.550	19.210	0.040000

Name: X-6651 Group: DANFORTH
Encroachment: No

Martin County NPDES Stormwater Inventory, cross section 6651

Station(ft)	Elevation(ft)	Manning's N
0.000	18.660	0.040000
19.720	12.140	0.040000
27.440	10.350	0.040000
36.890	10.840	0.040000
45.650	12.130	0.040000
69.060	18.740	0.040000

Name: X-MAPP-RD-UP Group: DANFORTH
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	9.000	0.040000
35.000	8.000	0.040000
60.000	7.000	0.040000
80.000	6.000	0.040000
98.000	5.000	0.040000
117.000	4.000	0.040000
122.000	3.000	0.040000
126.000	2.000	0.040000
132.000	1.000	0.040000
151.000	1.000	0.040000
155.000	2.000	0.040000
160.000	3.000	0.040000
190.000	3.000	0.040000
215.000	2.000	0.040000
239.000	2.000	0.040000
250.000	3.000	0.040000
255.000	4.000	0.040000
258.000	5.000	0.040000
263.000	6.000	0.040000
265.000	10.000	0.040000

Name: X-MID4.58 Group: DANFORTH
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	20.700	0.040000
14.500	18.700	0.040000
30.000	17.900	0.040000
46.000	11.900	0.040000
52.500	11.600	0.040000
60.000	11.900	0.040000
71.600	19.300	0.040000
83.500	21.400	0.040000

Name: X-MID4.99 Group: DANFORTH
Encroachment: No

MARTIN COUNTY CONTOURS

Station(ft)	Elevation(ft)	Manning's N
-34.000	20.000	0.040000
0.000	18.000	0.040000
9.460	15.000	0.040000
21.900	15.000	0.040000
32.420	20.000	0.040000

Name: X-MID4.99DN Group: DANFORTH
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	19.000	0.040000
12.130	13.000	0.040000
22.420	13.000	0.040000
45.320	18.000	0.040000

Name: X-PINE-OUT Group: DANFORTH
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	10.000	0.040000
45.000	1.000	0.040000
63.600	1.000	0.040000
89.000	10.000	0.040000

Name: X-SR76A-DN Group: DANFORTH
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	19.000	0.040000
8.000	15.000	0.040000
22.700	15.000	0.040000
35.840	20.000	0.040000

Name: X-SUNSET-DN Group: DANFORTH
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	12.000	0.040000
19.870	2.000	0.040000
31.870	2.000	0.040000
60.480	10.000	0.040000
69.000	12.000	0.040000

==== Pipes ====

Name: DAN-01 From Node: D04-SUNSET-UP Length(ft): 31.00
Group: DANFORTH To Node: D03-SUNSET-DN Count: 2
Friction Equation: Automatic
Solution Algorithm: Most Restrictive
Flow: Both
Entrance Loss Coef: 0.40
Exit Loss Coef: 1.00
Bend Loss Coef: 0.00
Outlet Ctrl Spec: Use dc or tw
Inlet Ctrl Spec: Use dc
Stabilizer Option: None

	UPSTREAM	DOWNSTREAM
Geometry:	Rectangular	Rectangular
Span(in):	102.00	102.00
Rise(in):	120.00	120.00
Invert(ft):	2.500	2.500
Manning's N:	0.012000	0.012000
Top Clip(in):	0.000	0.000
Bot Clip(in):	0.000	0.000

Upstream FHWA Inlet Edge Description:
Rectangular Box: 30° to 75° wingwall flares

Downstream FHWA Inlet Edge Description:
Rectangular Box: 30° to 75° wingwall flares

SUNSET TRAIL BOX CULVERTS

Name: DAN-02 From Node: D08-MARTN HY-UP Length(ft): 42.50
Group: DANFORTH To Node: D07-MARN HY-DN Count: 2
Friction Equation: Automatic
Solution Algorithm: Most Restrictive
Flow: Both
Entrance Loss Coef: 0.40
Exit Loss Coef: 1.00
Bend Loss Coef: 0.00
Outlet Ctrl Spec: Use dc or tw
Inlet Ctrl Spec: Use dc
Stabilizer Option: None

	UPSTREAM	DOWNSTREAM
Geometry:	Rectangular	Rectangular
Span(in):	108.00	108.00
Rise(in):	108.00	108.00
Invert(ft):	5.840	5.840
Manning's N:	0.012000	0.012000
Top Clip(in):	0.000	0.000
Bot Clip(in):	0.000	0.000

Upstream FHWA Inlet Edge Description:
Rectangular Box: 30° to 75° wingwall flares

Downstream FHWA Inlet Edge Description:

Rectangular Box: 30° to 75° wingwall flares

SW MARTIN HIGHWAY BOX CULVERTS

Name: DAN-03		From Node: D10-BERRY AV UP	Length(ft): 36.00
Group: DANFORTH		To Node: D09-BARRY AV DN	Count: 3
			Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry:	Rectangular	Rectangular	Flow: Both
Span(in):	72.00	72.00	Entrance Loss Coef: 0.40
Rise(in):	96.00	96.00	Exit Loss Coef: 1.00
Invert(ft):	6.320	6.320	Bend Loss Coef: 0.00
Manning's N:	0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in):	0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:
Rectangular Box: 30° to 75° wingwall flares

Downstream FHWA Inlet Edge Description:
Rectangular Box: 30° to 75° wingwall flares

Horseshoe Trail

Name: DAN-04		From Node: D14-HIGH MEA-UP	Length(ft): 84.00
Group: DANFORTH		To Node: D13-HIGH MEA-DN	Count: 3
			Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry:	Rectangular	Rectangular	Flow: Both
Span(in):	96.00	96.00	Entrance Loss Coef: 0.40
Rise(in):	96.00	96.00	Exit Loss Coef: 1.00
Invert(ft):	8.030	7.970	Bend Loss Coef: 0.00
Manning's N:	0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in):	0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:
Rectangular Box: 30° to 75° wingwall flares

Downstream FHWA Inlet Edge Description:
Rectangular Box: 30° to 75° wingwall flares

High Meadows Box Culverts at MID3.767

Name: DAN-05		From Node: D16-TURNPIKE-UP	Length(ft): 145.00
Group: DANFORTH		To Node: D15-TURNPIKE-DN	Count: 3
			Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry:	Rectangular	Rectangular	Flow: Both
Span(in):	84.00	84.00	Entrance Loss Coef: 0.20
Rise(in):	102.00	102.00	Exit Loss Coef: 1.00
Invert(ft):	10.330	10.100	Bend Loss Coef: 0.00
Manning's N:	0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in):	0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:
Rectangular Box: 30° to 75° wingwall flares

Downstream FHWA Inlet Edge Description:
Rectangular Box: 30° to 75° wingwall flares

Turnpike Box Culverts

Name: DAN-06		From Node: D18-LEIGHTON-UP	Length(ft): 34.00
Group: DANFORTH		To Node: D17-LEIGHTON-DN	Count: 3
			Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry:	Rectangular	Rectangular	Flow: Both
Span(in):	72.00	72.00	Entrance Loss Coef: 0.40
Rise(in):	84.00	84.00	Exit Loss Coef: 1.00
Invert(ft):	10.900	10.800	Bend Loss Coef: 0.00
Manning's N:	0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in):	0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:
Rectangular Box: 30° to 75° wingwall flares

Downstream FHWA Inlet Edge Description:
Rectangular Box: 30° to 75° wingwall flares

Leighton Farms Avenue Box Culverts

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         Name: DAN-07              From Node: D21-42ND AVE-UP    Length(ft): 15.00
        Group: DANFORTH              To Node: D20-42ND AVE-DN        Count: 3
                                                 Friction Equation: Automatic
               UPSTREAM       DOWNSTREAM               Solution Algorithm: Most Restrictive
     Geometry: Rectangular    Rectangular                        Flow: Both
     Span(in): 72.00          72.00                    Entrance Loss Coef: 0.40
     Rise(in): 96.00          96.00                        Exit Loss Coef: 1.00
   Invert(ft): 12.710         12.700                       Bend Loss Coef: 0.00
  Manning's N: 0.012000       0.012000                   Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000          0.000                       Inlet Ctrl Spec: Use dc
 Bot Clip(in): 0.000          0.000                     Stabilizer Option: None


Upstream FHWA Inlet Edge Description:
Rectangular Box: 0° wingwall flares

Downstream FHWA Inlet Edge Description:
Rectangular Box: 0° wingwall flares

42 ND AVE CULVERTS

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         Name: DAN-08              From Node: D24-SR76A-UP       Length(ft): 34.00
        Group: DANFORTH              To Node: D23-SR76A-DN           Count: 2
                                                 Friction Equation: Automatic
               UPSTREAM       DOWNSTREAM               Solution Algorithm: Most Restrictive
     Geometry: Rectangular    Rectangular                        Flow: Both
     Span(in): 72.00          72.00                    Entrance Loss Coef: 0.40
     Rise(in): 84.00          84.00                        Exit Loss Coef: 1.00
   Invert(ft): 14.570         14.510                       Bend Loss Coef: 0.00
  Manning's N: 0.012000       0.012000                   Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000          0.000                       Inlet Ctrl Spec: Use dc
 Bot Clip(in): 0.000          0.000                     Stabilizer Option: None


Upstream FHWA Inlet Edge Description:
Rectangular Box: 30° to 75° wingwall flares

Downstream FHWA Inlet Edge Description:
Rectangular Box: 30° to 75° wingwall flares

SR76A BOX CULVERTS

-------------------------------------------------------------------------------------------------
         Name: DAN-09              From Node: D26-MID5.435-UP    Length(ft): 20.00
        Group: DANFORTH              To Node: D25-MID5.435-DN        Count: 1
                                                 Friction Equation: Automatic
               UPSTREAM       DOWNSTREAM               Solution Algorithm: Most Restrictive
     Geometry: Horz Ellipse   Horz Ellipse                       Flow: Both
     Span(in): 74.40          74.40                    Entrance Loss Coef: 0.20
     Rise(in): 63.60          63.60                        Exit Loss Coef: 1.00
   Invert(ft): 16.300         16.100                       Bend Loss Coef: 0.00
  Manning's N: 0.024000       0.024000                   Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000          0.000                       Inlet Ctrl Spec: Use dc
 Bot Clip(in): 0.000          0.000                     Stabilizer Option: None


Upstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall


-------------------------------------------------------------------------------------------------
         Name: DAN-10              From Node: D28-MID5.47-UP     Length(ft): 20.00
        Group: DANFORTH              To Node: D27-MID5.47-DN         Count: 1
                                                 Friction Equation: Automatic
               UPSTREAM       DOWNSTREAM               Solution Algorithm: Most Restrictive
     Geometry: Horz Ellipse   Horz Ellipse                       Flow: Both
     Span(in): 72.00          72.00                    Entrance Loss Coef: 0.20
     Rise(in): 60.00          60.00                        Exit Loss Coef: 1.00
   Invert(ft): 16.570         16.570                       Bend Loss Coef: 0.00
  Manning's N: 0.024000       0.024000                   Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000          0.000                       Inlet Ctrl Spec: Use dc
 Bot Clip(in): 0.000          0.000                     Stabilizer Option: None


Upstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall


-------------------------------------------------------------------------------------------------
         Name: DAN-12              From Node: D30-MID5.558-UP    Length(ft): 24.00
        Group: DANFORTH              To Node: D29-MID5.558-DN        Count: 1
                                                 Friction Equation: Automatic
               UPSTREAM       DOWNSTREAM               Solution Algorithm: Most Restrictive
     Geometry: Horz Ellipse   Horz Ellipse                       Flow: Both
```

Span(in):	72.00	72.00	Entrance Loss Coef: 0.50
Rise(in):	61.20	61.20	Exit Loss Coef: 1.00
Invert(ft):	16.500	16.400	Bend Loss Coef: 0.00
Manning's N:	0.024000	0.024000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in):	0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall

Name: DAN-13 From Node: D32-MID5.585-UP Length(ft): 28.00
Group: DANFORTH To Node: D31-MID5.585-DN Count: 1
Friction Equation: Automatic

	UPSTREAM	DOWNSTREAM	
Geometry:	Circular	Circular	Solution Algorithm: Most Restrictive
Span(in):	72.00	72.00	Flow: Both
Rise(in):	72.00	72.00	Entrance Loss Coef: 0.20
Invert(ft):	16.700	16.900	Exit Loss Coef: 1.00
Manning's N:	0.024000	0.024000	Bend Loss Coef: 0.00
Top Clip(in):	0.000	0.000	Outlet Ctrl Spec: Use dc or tw
Bot Clip(in):	0.000	0.000	Inlet Ctrl Spec: Use dc
			Stabilizer Option: None

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Name: DAN-14 From Node: D35-MID6.216-UP Length(ft): 20.00
Group: DANFORTH To Node: D34-MID6.216-Dn Count: 1
Friction Equation: Automatic

	UPSTREAM	DOWNSTREAM	
Geometry:	Circular	Circular	Solution Algorithm: Most Restrictive
Span(in):	60.00	60.00	Flow: Both
Rise(in):	60.00	60.00	Entrance Loss Coef: 0.20
Invert(ft):	15.500	15.000	Exit Loss Coef: 1.00
Manning's N:	0.024000	0.024000	Bend Loss Coef: 0.00
Top Clip(in):	0.000	0.000	Outlet Ctrl Spec: Use dc or tw
Bot Clip(in):	0.000	0.000	Inlet Ctrl Spec: Use dc
			Stabilizer Option: None

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Name: DAN-15 From Node: D37-MID6.30-UP Length(ft): 25.00
Group: DANFORTH To Node: D36-MID6.30-DN Count: 1
Friction Equation: Automatic

	UPSTREAM	DOWNSTREAM	
Geometry:	Circular	Circular	Solution Algorithm: Most Restrictive
Span(in):	60.00	60.00	Flow: Both
Rise(in):	60.00	60.00	Entrance Loss Coef: 0.20
Invert(ft):	16.000	16.200	Exit Loss Coef: 1.00
Manning's N:	0.024000	0.024000	Bend Loss Coef: 0.00
Top Clip(in):	0.000	0.000	Outlet Ctrl Spec: Use dc or tw
Bot Clip(in):	0.000	0.000	Inlet Ctrl Spec: Use dc
			Stabilizer Option: None

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Name: DAN-16 From Node: D39-MID6.312-UP Length(ft): 22.00
Group: DANFORTH To Node: D38-MID6.312-DN Count: 1
Friction Equation: Automatic

	UPSTREAM	DOWNSTREAM	
Geometry:	Circular	Circular	Solution Algorithm: Most Restrictive
Span(in):	42.00	42.00	Flow: Both
Rise(in):	42.00	42.00	Entrance Loss Coef: 0.20
Invert(ft):	19.100	19.100	Exit Loss Coef: 1.00
Manning's N:	0.024000	0.024000	Bend Loss Coef: 0.00
Top Clip(in):	0.000	0.000	Outlet Ctrl Spec: Use dc or tw
			Inlet Ctrl Spec: Use dc

```
 Bot Clip(in): 0.000          0.000                      Stabilizer Option: None


Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall


================================================================================
==== Channels ==================================================================
================================================================================

          Name: C00-MAPP-ST LUC     From Node: D00-MAPP RD DN     Length(ft): 1430.00
         Group: BASE                  To Node: D-00 RIVER TW          Count: 1

                UPSTREAM       DOWNSTREAM                 Friction Equation: Automatic
      Geometry: Irregular      Irregular                  Solution Algorithm: Automatic
    Invert(ft): -1.500         -3.000                                 Flow: Both
 TClpInitZ(ft): 9999.000       9999.000                     Contraction Coef: 0.100
   Manning's N:                                             Expansion Coef: 0.300
  Top Clip(ft):                                           Entrance Loss Coef: 0.000
  Bot Clip(ft):                                              Exit Loss Coef: 0.000
     Main XSec: MAPP RD DN      MAPP RD DN                  Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000           0.000                        Inlet Ctrl Spec: Use dc
     Aux XSec1:                                            Stabilizer Option: None
  AuxElev2(ft): 0.000           0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


--------------------------------------------------------------------------------
          Name: C00-MARTIN-MAPP     From Node: D01-MARTIN DN      Length(ft): 680.00
         Group: BASE                  To Node: D00-MAPP RD UP          Count: 1

                UPSTREAM       DOWNSTREAM                 Friction Equation: Automatic
      Geometry: Irregular      Irregular                  Solution Algorithm: Automatic
    Invert(ft): 1.000          -1.500                                 Flow: Both
 TClpInitZ(ft): 9999.000       9999.000                     Contraction Coef: 0.100
   Manning's N:                                             Expansion Coef: 0.300
  Top Clip(ft):                                           Entrance Loss Coef: 0.000
  Bot Clip(ft):                                              Exit Loss Coef: 0.000
     Main XSec: X-MAPP-RD-UP    X-MAPP-RD-UP                Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000           0.000                        Inlet Ctrl Spec: Use dc
     Aux XSec1:                                            Stabilizer Option: None
  AuxElev2(ft): 0.000           0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


--------------------------------------------------------------------------------
          Name: C01-PINE-MARTIN     From Node: D02-PINE RIDGE     Length(ft): 2560.00
         Group: DANFORTH              To Node: D01-MARTIN DN           Count: 1

                UPSTREAM       DOWNSTREAM                 Friction Equation: Automatic
      Geometry: Irregular      Irregular                  Solution Algorithm: Automatic
    Invert(ft): 1.000          1.000                                  Flow: Both
 TClpInitZ(ft): 9999.000       9999.000                     Contraction Coef: 0.100
   Manning's N:                                             Expansion Coef: 0.300
  Top Clip(ft):                                           Entrance Loss Coef: 0.000
  Bot Clip(ft):                                              Exit Loss Coef: 0.000
     Main XSec: X-PINE-OUT      X-PINE-OUT                  Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000           0.000                        Inlet Ctrl Spec: Use dc
     Aux XSec1:                                            Stabilizer Option: None
  AuxElev2(ft): 0.000           0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


--------------------------------------------------------------------------------
          Name: C02-SUNSET-PINE     From Node: D03-SUNSET-DN      Length(ft): 1440.00
         Group: DANFORTH              To Node: D02-PINE RIDGE          Count: 1

                UPSTREAM       DOWNSTREAM                 Friction Equation: Automatic
      Geometry: Irregular      Irregular                  Solution Algorithm: Automatic
    Invert(ft): 2.000          1.000                                  Flow: Both
 TClpInitZ(ft): 9999.000       9999.000                     Contraction Coef: 0.100
   Manning's N:                                             Expansion Coef: 0.300
  Top Clip(ft):                                           Entrance Loss Coef: 0.000
```

```
  Bot Clip(ft):                                          Exit Loss Coef: 0.000
     Main XSec: X-SUNSET-DN    X-PINE-OUT               Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000          0.000                     Inlet Ctrl Spec: Use dc
     Aux XSec1:                                        Stabilizer Option: None
  AuxElev2(ft): 0.000          0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


-------------------------------------------------------------------------------------------
          Name: C03-GARDENS-SUN     From Node: D05-GARDENS 1      Length(ft): 1415.00
         Group: DANFORTH              To Node: D04-SUNSET-UP           Count: 1

                UPSTREAM       DOWNSTREAM                Friction Equation: Automatic
      Geometry: Irregular      Irregular                Solution Algorithm: Automatic
    Invert(ft): 5.000          3.000                              Flow: Both
 TClpInitZ(ft): 9999.000       9999.000                  Contraction Coef: 0.100
   Manning's N:                                           Expansion Coef: 0.300
  Top Clip(ft):                                        Entrance Loss Coef: 0.000
  Bot Clip(ft):                                           Exit Loss Coef: 0.000
     Main XSec: X-2874         X-2874                    Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000          0.000                     Inlet Ctrl Spec: Use dc
     Aux XSec1:                                        Stabilizer Option: None
  AuxElev2(ft): 0.000          0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


-------------------------------------------------------------------------------------------
          Name: C04-VILLAS-GARD     From Node: D06-VILLAS-OUT     Length(ft): 694.00
         Group: DANFORTH              To Node: D05-GARDENS 1           Count: 1

                UPSTREAM       DOWNSTREAM                Friction Equation: Automatic
      Geometry: Irregular      Irregular                Solution Algorithm: Automatic
    Invert(ft): 5.220          5.000                              Flow: Both
 TClpInitZ(ft): 9999.000       9999.000                  Contraction Coef: 0.100
   Manning's N:                                           Expansion Coef: 0.300
  Top Clip(ft):                                        Entrance Loss Coef: 0.000
  Bot Clip(ft):                                           Exit Loss Coef: 0.000
     Main XSec: X-2874         X-2874                    Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000          0.000                     Inlet Ctrl Spec: Use dc
     Aux XSec1:                                        Stabilizer Option: None
  AuxElev2(ft): 0.000          0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


-------------------------------------------------------------------------------------------
          Name: C05-MARTIN-VILL     From Node: D07-MARN HY-DN     Length(ft): 750.00
         Group: DANFORTH              To Node: D06-VILLAS-OUT          Count: 1

                UPSTREAM       DOWNSTREAM                Friction Equation: Automatic
      Geometry: Irregular      Irregular                Solution Algorithm: Automatic
    Invert(ft): 5.220          5.220                              Flow: Both
 TClpInitZ(ft): 9999.000       9999.000                  Contraction Coef: 0.100
   Manning's N:                                           Expansion Coef: 0.300
  Top Clip(ft):                                        Entrance Loss Coef: 0.000
  Bot Clip(ft):                                           Exit Loss Coef: 0.000
     Main XSec: X-2874         X-2874                    Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000          0.000                     Inlet Ctrl Spec: Use dc
     Aux XSec1:                                        Stabilizer Option: None
  AuxElev2(ft): 0.000          0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


-------------------------------------------------------------------------------------------
          Name: C06-BARRY-MARTI     From Node: D09-BARRY AV DN    Length(ft): 694.00
         Group: DANFORTH              To Node: D08-MARTN HY-UP         Count: 1

                UPSTREAM       DOWNSTREAM                Friction Equation: Automatic
      Geometry: Irregular      Irregular                Solution Algorithm: Automatic
    Invert(ft): 5.180          6.030                              Flow: Both
 TClpInitZ(ft): 9999.000       9999.000                  Contraction Coef: 0.100
   Manning's N:                                           Expansion Coef: 0.300
  Top Clip(ft):                                        Entrance Loss Coef: 0.000
  Bot Clip(ft):                                           Exit Loss Coef: 0.000
```

```
     Main XSec: X-2854         X-2860                      Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000          0.000                        Inlet Ctrl Spec: Use dc
     Aux XSec1:                                           Stabilizer Option: None
  AuxElev2(ft): 0.000          0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


----------------------------------------------------------------------------------------------
          Name: C07-CHURCH-BARR     From Node: D11-CHURCH-OUT     Length(ft): 1630.00
         Group: DANFORTH              To Node: D10-BERRY AV UP         Count: 1

               UPSTREAM       DOWNSTREAM                 Friction Equation: Automatic
      Geometry: Irregular     Irregular                  Solution Algorithm: Automatic
    Invert(ft): 7.000         6.320                                 Flow: Both
 TClpInitZ(ft): 9999.000      9999.000                    Contraction Coef: 0.100
   Manning's N:                                            Expansion Coef: 0.300
  Top Clip(ft):                                         Entrance Loss Coef: 0.000
  Bot Clip(ft):                                             Exit Loss Coef: 0.000
     Main XSec: X-2805         X-2831                      Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000          0.000                        Inlet Ctrl Spec: Use dc
     Aux XSec1:                                           Stabilizer Option: None
  AuxElev2(ft): 0.000          0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


----------------------------------------------------------------------------------------------
          Name: C08-30TH-CHURCH     From Node: D12-30TH AVE       Length(ft): 1248.00
         Group: DANFORTH              To Node: D11-CHURCH-OUT          Count: 1

               UPSTREAM       DOWNSTREAM                 Friction Equation: Automatic
      Geometry: Irregular     Irregular                  Solution Algorithm: Automatic
    Invert(ft): 7.470         7.000                                 Flow: Both
 TClpInitZ(ft): 9999.000      9999.000                    Contraction Coef: 0.100
   Manning's N:                                            Expansion Coef: 0.300
  Top Clip(ft):                                         Entrance Loss Coef: 0.000
  Bot Clip(ft):                                             Exit Loss Coef: 0.000
     Main XSec: X-2805         X-2805                      Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000          0.000                        Inlet Ctrl Spec: Use dc
     Aux XSec1:                                           Stabilizer Option: None
  AuxElev2(ft): 0.000          0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


----------------------------------------------------------------------------------------------
          Name: C09-H MEAD-30TH     From Node: D13-HIGH MEA-DN    Length(ft): 760.00
         Group: DANFORTH              To Node: D12-30TH AVE            Count: 1

               UPSTREAM       DOWNSTREAM                 Friction Equation: Automatic
      Geometry: Irregular     Irregular                  Solution Algorithm: Automatic
    Invert(ft): 7.470         7.470                                 Flow: Both
 TClpInitZ(ft): 9999.000      9999.000                    Contraction Coef: 0.100
   Manning's N:                                            Expansion Coef: 0.300
  Top Clip(ft):                                         Entrance Loss Coef: 0.000
  Bot Clip(ft):                                             Exit Loss Coef: 0.000
     Main XSec: X-2805         X-2805                      Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000          0.000                        Inlet Ctrl Spec: Use dc
     Aux XSec1:                                           Stabilizer Option: None
  AuxElev2(ft): 0.000          0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


----------------------------------------------------------------------------------------------
          Name: C10-TURNPK-H ME     From Node: D15-TURNPIKE-DN    Length(ft): 1463.00
         Group: DANFORTH              To Node: D14-HIGH MEA-UP         Count: 1

               UPSTREAM       DOWNSTREAM                 Friction Equation: Automatic
      Geometry: Irregular     Irregular                  Solution Algorithm: Automatic
    Invert(ft): 9.780         8.340                                 Flow: Both
 TClpInitZ(ft): 9999.000      9999.000                    Contraction Coef: 0.100
   Manning's N:                                            Expansion Coef: 0.300
  Top Clip(ft):                                         Entrance Loss Coef: 0.000
  Bot Clip(ft):                                             Exit Loss Coef: 0.000
     Main XSec: X-6641         X-2823                      Outlet Ctrl Spec: Use dc or tw
```

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  AuxElev1(ft): 0.000          0.000                       Inlet Ctrl Spec: Use dc
     Aux XSec1:                                          Stabilizer Option: None
  AuxElev2(ft): 0.000          0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):



-------------------------------------------------------------------------------------------
          Name: C11-LEIGH-TURNP     From Node: D17-LEIGHTON-DN    Length(ft): 550.00
         Group: DANFORTH              To Node: D16-TURNPIKE-UP         Count: 1

               UPSTREAM       DOWNSTREAM                 Friction Equation: Automatic
      Geometry: Irregular      Irregular                 Solution Algorithm: Automatic
    Invert(ft): 10.490         10.290                                Flow: Both
 TClpInitZ(ft): 9999.000       9999.000                    Contraction Coef: 0.100
   Manning's N:                                             Expansion Coef: 0.300
  Top Clip(ft):                                          Entrance Loss Coef: 0.000
  Bot Clip(ft):                                              Exit Loss Coef: 0.000
     Main XSec: X-1043          X-6651                     Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000           0.000                       Inlet Ctrl Spec: Use dc
     Aux XSec1:                                          Stabilizer Option: None
  AuxElev2(ft): 0.000           0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):



-------------------------------------------------------------------------------------------
          Name: C12-MID4.58-LEI     From Node: D19-MID-4.58       Length(ft): 2060.00
         Group: DANFORTH              To Node: D18-LEIGHTON-UP         Count: 1

               UPSTREAM       DOWNSTREAM                 Friction Equation: Automatic
      Geometry: Irregular      Irregular                 Solution Algorithm: Automatic
    Invert(ft): 12.100         10.990                                Flow: Both
 TClpInitZ(ft): 9999.000       9999.000                    Contraction Coef: 0.100
   Manning's N:                                             Expansion Coef: 0.300
  Top Clip(ft):                                          Entrance Loss Coef: 0.000
  Bot Clip(ft):                                              Exit Loss Coef: 0.000
     Main XSec: X-MID4.58       X-1033                     Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000           0.000                       Inlet Ctrl Spec: Use dc
     Aux XSec1:                                          Stabilizer Option: None
  AuxElev2(ft): 0.000           0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):



-------------------------------------------------------------------------------------------
          Name: C13-42ND-MID4.5     From Node: D20-42ND AVE-DN    Length(ft): 727.00
         Group: DANFORTH              To Node: D19-MID-4.58            Count: 1

               UPSTREAM       DOWNSTREAM                 Friction Equation: Automatic
      Geometry: Irregular      Irregular                 Solution Algorithm: Automatic
    Invert(ft): 12.400         12.100                                Flow: Both
 TClpInitZ(ft): 9999.000       9999.000                    Contraction Coef: 0.100
   Manning's N:                                             Expansion Coef: 0.300
  Top Clip(ft):                                          Entrance Loss Coef: 0.000
  Bot Clip(ft):                                              Exit Loss Coef: 0.000
     Main XSec: X-42ND-AV       X-MID4.58                  Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000           0.000                       Inlet Ctrl Spec: Use dc
     Aux XSec1:                                          Stabilizer Option: None
  AuxElev2(ft): 0.000           0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):



-------------------------------------------------------------------------------------------
          Name: C14-MID4.99-42N     From Node: D22-MID-4.99       Length(ft): 1620.00
         Group: DANFORTH              To Node: D21-42ND AVE-UP         Count: 1

               UPSTREAM       DOWNSTREAM                 Friction Equation: Automatic
      Geometry: Irregular      Irregular                 Solution Algorithm: Automatic
    Invert(ft): 14.000         14.000                                Flow: Both
 TClpInitZ(ft): 9999.000       9999.000                    Contraction Coef: 0.100
   Manning's N:                                             Expansion Coef: 0.300
  Top Clip(ft):                                          Entrance Loss Coef: 0.000
  Bot Clip(ft):                                              Exit Loss Coef: 0.000
     Main XSec: X-MID4.99DN     X-42ND-AV                  Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000           0.000                       Inlet Ctrl Spec: Use dc
```

```
     Aux XSec1:                                          Stabilizer Option: None
  AuxElev2(ft): 0.000          0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):



-------------------------------------------------------------------------------------------------
          Name: C15-SR76A-MID4.     From Node: D23-SR76A-DN       Length(ft): 1400.00
         Group: DANFORTH              To Node: D22-MID-4.99           Count: 1

               UPSTREAM       DOWNSTREAM                Friction Equation: Automatic
      Geometry: Irregular     Irregular                 Solution Algorithm: Automatic
    Invert(ft): 15.000        15.000                              Flow: Both
 TClpInitZ(ft): 9999.000      9999.000                  Contraction Coef: 0.100
   Manning's N:                                           Expansion Coef: 0.300
  Top Clip(ft):                                        Entrance Loss Coef: 0.000
  Bot Clip(ft):                                           Exit Loss Coef: 0.000
     Main XSec: X-SR76A-DN     X-MID4.99                 Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000          0.000                      Inlet Ctrl Spec: Use dc
     Aux XSec1:                                          Stabilizer Option: None
  AuxElev2(ft): 0.000          0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):



-------------------------------------------------------------------------------------------------
          Name: C16-MID5.43-5.2     From Node: D25-MID5.435-DN    Length(ft): 930.00
         Group: DANFORTH              To Node: D24-SR76A-UP           Count: 1

               UPSTREAM       DOWNSTREAM                Friction Equation: Automatic
      Geometry: Irregular     Irregular                 Solution Algorithm: Automatic
    Invert(ft): 16.000        14.340                              Flow: Both
 TClpInitZ(ft): 9999.000      9999.000                  Contraction Coef: 0.100
   Manning's N:                                           Expansion Coef: 0.300
  Top Clip(ft):                                        Entrance Loss Coef: 0.000
  Bot Clip(ft):                                           Exit Loss Coef: 0.000
     Main XSec: X-1141         X-1141                    Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000          0.000                      Inlet Ctrl Spec: Use dc
     Aux XSec1:                                          Stabilizer Option: None
  AuxElev2(ft): 0.000          0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):



-------------------------------------------------------------------------------------------------
          Name: C17-MID5.47-5.4     From Node: D27-MID5.47-DN     Length(ft): 358.00
         Group: DANFORTH              To Node: D26-MID5.435-UP        Count: 1

               UPSTREAM       DOWNSTREAM                Friction Equation: Automatic
      Geometry: Irregular     Irregular                 Solution Algorithm: Automatic
    Invert(ft): 16.570        16.300                              Flow: Both
 TClpInitZ(ft): 9999.000      9999.000                  Contraction Coef: 0.100
   Manning's N:                                           Expansion Coef: 0.300
  Top Clip(ft):                                        Entrance Loss Coef: 0.000
  Bot Clip(ft):                                           Exit Loss Coef: 0.000
     Main XSec: X-1141         X-1141                    Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000          0.000                      Inlet Ctrl Spec: Use dc
     Aux XSec1:                                          Stabilizer Option: None
  AuxElev2(ft): 0.000          0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):



-------------------------------------------------------------------------------------------------
          Name: C18-MID5.55-5.4     From Node: D29-MID5.558-DN    Length(ft): 132.00
         Group: DANFORTH              To Node: D28-MID5.47-UP         Count: 1

               UPSTREAM       DOWNSTREAM                Friction Equation: Automatic
      Geometry: Irregular     Irregular                 Solution Algorithm: Automatic
    Invert(ft): 17.000        16.570                              Flow: Both
 TClpInitZ(ft): 9999.000      9999.000                  Contraction Coef: 0.100
   Manning's N:                                           Expansion Coef: 0.300
  Top Clip(ft):                                        Entrance Loss Coef: 0.000
  Bot Clip(ft):                                           Exit Loss Coef: 0.000
     Main XSec: X-1349         X-1349                    Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000          0.000                      Inlet Ctrl Spec: Use dc
     Aux XSec1:                                          Stabilizer Option: None
```

```
  AuxElev2(ft): 0.000          0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


-------------------------------------------------------------------------------------------
          Name: C19-MID5.58-5.5     From Node: D31-MID5.585-DN    Length(ft): 763.00
         Group: DANFORTH              To Node: D30-MID5.558-UP         Count: 1

               UPSTREAM       DOWNSTREAM                Friction Equation: Automatic
      Geometry: Irregular     Irregular                 Solution Algorithm: Automatic
    Invert(ft): 17.000        17.000                                Flow: Both
 TClpInitZ(ft): 9999.000      9999.000                    Contraction Coef: 0.100
   Manning's N:                                            Expansion Coef: 0.300
  Top Clip(ft):                                         Entrance Loss Coef: 0.000
  Bot Clip(ft):                                            Exit Loss Coef: 0.000
     Main XSec: X-1349         X-1349                     Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000          0.000                       Inlet Ctrl Spec: Use dc
     Aux XSec1:                                          Stabilizer Option: None
  AuxElev2(ft): 0.000          0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


-------------------------------------------------------------------------------------------
          Name: C20-MID-OUTFALL     From Node: D33-MID-OUTFALL    Length(ft): 1130.00
         Group: DANFORTH              To Node: D32-MID5.585-UP         Count: 1

               UPSTREAM       DOWNSTREAM                Friction Equation: Automatic
      Geometry: Irregular     Irregular                 Solution Algorithm: Automatic
    Invert(ft): 18.000        17.000                                Flow: Both
 TClpInitZ(ft): 9999.000      9999.000                    Contraction Coef: 0.100
   Manning's N:                                            Expansion Coef: 0.300
  Top Clip(ft):                                         Entrance Loss Coef: 0.000
  Bot Clip(ft):                                            Exit Loss Coef: 0.000
     Main XSec: X-1349         X-1349                     Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000          0.000                       Inlet Ctrl Spec: Use dc
     Aux XSec1:                                          Stabilizer Option: None
  AuxElev2(ft): 0.000          0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


-------------------------------------------------------------------------------------------
          Name: C21-MID6.21-M       From Node: D34-MID6.216-Dn    Length(ft): 1113.00
         Group: DANFORTH              To Node: D33-MID-OUTFALL         Count: 1

               UPSTREAM       DOWNSTREAM                Friction Equation: Automatic
      Geometry: Irregular     Irregular                 Solution Algorithm: Automatic
    Invert(ft): 18.620        18.000                                Flow: Both
 TClpInitZ(ft): 9999.000      9999.000                    Contraction Coef: 0.100
   Manning's N:                                            Expansion Coef: 0.300
  Top Clip(ft):                                         Entrance Loss Coef: 0.000
  Bot Clip(ft):                                            Exit Loss Coef: 0.000
     Main XSec: X-1349         X-1349                     Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000          0.000                       Inlet Ctrl Spec: Use dc
     Aux XSec1:                                          Stabilizer Option: None
  AuxElev2(ft): 0.000          0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


-------------------------------------------------------------------------------------------
          Name: C22-MID6.30-6.2     From Node: D36-MID6.30-DN     Length(ft): 578.00
         Group: DANFORTH              To Node: D35-MID6.216-UP         Count: 1

               UPSTREAM       DOWNSTREAM                Friction Equation: Automatic
      Geometry: Irregular     Irregular                 Solution Algorithm: Automatic
    Invert(ft): 18.620        18.620                                Flow: Both
 TClpInitZ(ft): 9999.000      9999.000                    Contraction Coef: 0.100
   Manning's N:                                            Expansion Coef: 0.300
  Top Clip(ft):                                         Entrance Loss Coef: 0.000
  Bot Clip(ft):                                            Exit Loss Coef: 0.000
     Main XSec: X-1349         X-1349                     Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000          0.000                       Inlet Ctrl Spec: Use dc
     Aux XSec1:                                          Stabilizer Option: None
  AuxElev2(ft): 0.000          0.000
```

```
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


-------------------------------------------------------------------------------------------
          Name: C23-MID6.312-6.     From Node: D38-MID6.312-DN    Length(ft): 443.00
         Group: DANFORTH              To Node: D37-MID6.30-UP          Count: 1

                UPSTREAM       DOWNSTREAM                 Friction Equation: Automatic
      Geometry: Irregular      Irregular                 Solution Algorithm: Automatic
    Invert(ft): 18.620         18.620                               Flow: Both
 TClpInitZ(ft): 9999.000       9999.000                   Contraction Coef: 0.100
   Manning's N:                                             Expansion Coef: 0.300
  Top Clip(ft):                                          Entrance Loss Coef: 0.000
  Bot Clip(ft):                                              Exit Loss Coef: 0.000
     Main XSec: X-1349          X-1349                    Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000           0.000                      Inlet Ctrl Spec: Use dc
     Aux XSec1:                                          Stabilizer Option: None
  AuxElev2(ft): 0.000           0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


-------------------------------------------------------------------------------------------
          Name: CORRINE DITCH       From Node: B19-COR DITCH      Length(ft): 1050.00
         Group: DANFORTH              To Node: D01-MARTIN DN           Count: 1

                UPSTREAM       DOWNSTREAM                 Friction Equation: Automatic
      Geometry: Irregular      Irregular                 Solution Algorithm: Automatic
    Invert(ft): 6.020          4.500                                Flow: Both
 TClpInitZ(ft): 9999.000       9999.000                   Contraction Coef: 0.100
   Manning's N:                                             Expansion Coef: 0.300
  Top Clip(ft):                                          Entrance Loss Coef: 0.000
  Bot Clip(ft):                                              Exit Loss Coef: 0.000
     Main XSec: CORRINE DITCH 1CORRINE DITCH 9             Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft): 0.000           0.000                      Inlet Ctrl Spec: Use dc
     Aux XSec1:                                          Stabilizer Option: None
  AuxElev2(ft): 0.000           0.000
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft):
  LtSdSlp(h/v):
  RtSdSlp(h/v):


-------------------------------------------------------------------------------------------
          Name: MAPP ROAD BRIDG     From Node: D00-MAPP RD UP     Length(ft): 46.67
         Group: BASE                  To Node: D00-MAPP RD DN          Count: 1

                UPSTREAM       DOWNSTREAM                 Friction Equation: Automatic
      Geometry: Trapezoidal    Trapezoidal               Solution Algorithm: Automatic
    Invert(ft): -1.500         -1.500                               Flow: Both
 TClpInitZ(ft): 6.000          6.000                      Contraction Coef: 0.100
   Manning's N: 0.030000       0.030000                   Expansion Coef: 0.300
  Top Clip(ft): 1.000          1.000                     Entrance Loss Coef: 0.000
  Bot Clip(ft): 0.000          0.000                         Exit Loss Coef: 0.000
     Main XSec:                                          Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft):                                            Inlet Ctrl Spec: Use dc
     Aux XSec1:                                          Stabilizer Option: None
  AuxElev2(ft):
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft): 20.000         20.000
  LtSdSlp(h/v): 3.00           3.00
  RtSdSlp(h/v): 3.00           3.00


===============================================================================
==== Drop Structures ==========================================================
===============================================================================

          Name: 34 ST POND          From Node: B18-34ST POND      Length(ft): 58.00
         Group: DANFORTH              To Node: B19-COR DITCH           Count: 1

               UPSTREAM       DOWNSTREAM                 Friction Equation: Automatic
     Geometry: Circular       Circular                  Solution Algorithm: Most Restrictive
     Span(in): 42.00          42.00                                Flow: Both
     Rise(in): 42.00          42.00                     Entrance Loss Coef: 0.500
   Invert(ft): 4.130          3.820                         Exit Loss Coef: 0.100
  Manning's N: 0.024000       0.024000                    Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000          0.000                        Inlet Ctrl Spec: Use dc
 Bot Clip(in): 0.000          0.000                          Solution Incs: 10
```

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

*** Weir 1 of 1 for Drop Structure 34 ST POND ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	42.00	Invert(ft):	6.500
Rise(in):	999.00	Control Elev(ft):	6.500

Name: DANFORTH CK From Node: B10-DANFORTH RS Length(ft): 120.00
Group: DANFORTH To Node: D08-MARTN HY-UP Count: 1

	UPSTREAM	DOWNSTREAM		
			Friction Equation:	Automatic
Geometry:	Circular	Circular	Solution Algorithm:	Most Restrictive
Span(in):	24.00	24.00	Flow:	Both
Rise(in):	24.00	24.00	Entrance Loss Coef:	0.000
Invert(ft):	10.000	10.000	Exit Loss Coef:	1.000
Manning's N:	0.024000	0.024000	Outlet Ctrl Spec:	Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec:	Use dc
Bot Clip(in):	0.000	0.000	Solution Incs:	10

Upstream FHWA Inlet Edge Description:
Circular CMP: Headwall

Downstream FHWA Inlet Edge Description:
Circular CMP: Projecting

DANFORTH DEVELOPMENT POP-OFF STRUCTURE

*** Weir 1 of 3 for Drop Structure DANFORTH CK ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Circular	Orifice Disc Coef:	0.600
Span(in):	4.00	Invert(ft):	12.000
Rise(in):	4.00	Control Elev(ft):	12.000

*** Weir 2 of 3 for Drop Structure DANFORTH CK ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	18.00	Invert(ft):	13.500
Rise(in):	99999.00	Control Elev(ft):	13.500

*** Weir 3 of 3 for Drop Structure DANFORTH CK ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Horizontal	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	54.00	Invert(ft):	15.350
Rise(in):	36.00	Control Elev(ft):	15.350

Name: GARDENS 2 From Node: B05-GARDENS 2 Length(ft): 200.00
Group: DANFORTH To Node: D06-VILLAS-OUT Count: 1

	UPSTREAM	DOWNSTREAM		
			Friction Equation:	Automatic
Geometry:	Circular	Circular	Solution Algorithm:	Most Restrictive
Span(in):	24.00	24.00	Flow:	Both
Rise(in):	24.00	24.00	Entrance Loss Coef:	0.000
Invert(ft):	10.500	10.500	Exit Loss Coef:	1.000
Manning's N:	0.024000	0.024000	Outlet Ctrl Spec:	Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec:	Use dc
Bot Clip(in):	0.000	0.000	Solution Incs:	10

Upstream FHWA Inlet Edge Description:
Circular CMP: Headwall

Downstream FHWA Inlet Edge Description:
Circular CMP: Headwall

*** Weir 1 of 2 for Drop Structure GARDENS 2 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Horizontal	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200

```
               Geometry: Rectangular          Orifice Disc Coef: 0.600

               Span(in): 39.96                      Invert(ft): 14.800
               Rise(in): 51.96                   Control Elev(ft): 14.800

*** Weir 2 of 2 for Drop Structure GARDENS 2 ***
                                                                      TABLE
                  Count: 1                     Bottom Clip(in): 0.000
                   Type: Vertical: Mavis          Top Clip(in): 0.000
                   Flow: Both                   Weir Disc Coef: 3.200
               Geometry: Circular             Orifice Disc Coef: 0.600

               Span(in): 3.00                       Invert(ft): 10.500
               Rise(in): 3.00                    Control Elev(ft): 10.500


-------------------------------------------------------------------------------------------------
        Name: GARDENS 3          From Node: B06-GARDENS 3      Length(ft): 30.00
       Group: DANFORTH             To Node: D06-VILLAS-OUT          Count: 1

              UPSTREAM       DOWNSTREAM                Friction Equation: Automatic
    Geometry: Circular       Circular                 Solution Algorithm: Most Restrictive
    Span(in): 24.00          24.00                               Flow: Both
    Rise(in): 24.00          24.00                    Entrance Loss Coef: 0.000
  Invert(ft): 9.500          9.500                        Exit Loss Coef: 1.000
Manning's N: 0.024000        0.024000                   Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000          0.000                        Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000          0.000                          Solution Incs: 10

Upstream FHWA Inlet Edge Description:
Circular CMP: Headwall

Downstream FHWA Inlet Edge Description:
Circular CMP: Headwall



*** Weir 1 of 2 for Drop Structure GARDENS 3 ***
                                                                      TABLE
                  Count: 1                     Bottom Clip(in): 0.000
                   Type: Horizontal               Top Clip(in): 0.000
                   Flow: Both                   Weir Disc Coef: 3.200
               Geometry: Rectangular          Orifice Disc Coef: 0.600

               Span(in): 39.96                      Invert(ft): 14.000
               Rise(in): 51.96                   Control Elev(ft): 14.000

*** Weir 2 of 2 for Drop Structure GARDENS 3 ***
                                                                      TABLE
                  Count: 1                     Bottom Clip(in): 0.000
                   Type: Vertical: Mavis          Top Clip(in): 0.000
                   Flow: Both                   Weir Disc Coef: 3.200
               Geometry: Circular             Orifice Disc Coef: 0.600

               Span(in): 3.00                       Invert(ft): 10.500
               Rise(in): 3.00                    Control Elev(ft): 10.500


-------------------------------------------------------------------------------------------------
        Name: HAMMOCK CK NRT     From Node: B12-HAMMOCK CRK    Length(ft): 50.00
       Group: DANFORTH             To Node: D12-30TH AVE           Count: 1

              UPSTREAM       DOWNSTREAM                Friction Equation: Automatic
    Geometry: Circular       Circular                 Solution Algorithm: Most Restrictive
    Span(in): 48.00          48.00                               Flow: Both
    Rise(in): 48.00          48.00                    Entrance Loss Coef: 0.000
  Invert(ft): 10.000         10.000                       Exit Loss Coef: 1.000
Manning's N: 0.024000        0.024000                   Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000          0.000                        Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000          0.000                          Solution Incs: 10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall



*** Weir 1 of 2 for Drop Structure HAMMOCK CK NRT ***
                                                                      TABLE
                  Count: 1                     Bottom Clip(in): 0.000
                   Type: Vertical: Mavis          Top Clip(in): 0.000
                   Flow: Both                   Weir Disc Coef: 3.200
               Geometry: Rectangular          Orifice Disc Coef: 0.600

               Span(in): 48.00                      Invert(ft): 17.500
               Rise(in): 9999.00                 Control Elev(ft): 17.500

*** Weir 2 of 2 for Drop Structure HAMMOCK CK NRT ***
                                                                      TABLE
                  Count: 1                     Bottom Clip(in): 0.000
                   Type: Vertical: Mavis          Top Clip(in): 0.000
                   Flow: Both                   Weir Disc Coef: 3.200
               Geometry: Rectangular          Orifice Disc Coef: 0.600

               Span(in): 36.00                      Invert(ft): 13.000
```

```
              Rise(in): 12.00                 Control Elev(ft): 13.000


-------------------------------------------------------------------------------------------------
         Name: IMMAN LUTH          From Node: B16-IMMAN LUTH     Length(ft): 18.00
        Group: BASE                  To Node: D00-MAPP RD UP          Count: 1

              UPSTREAM       DOWNSTREAM                 Friction Equation: Automatic
     Geometry: Circular       Circular                 Solution Algorithm: Most Restrictive
     Span(in): 24.00          24.00                                Flow: Both
     Rise(in): 24.00          24.00                    Entrance Loss Coef: 0.000
   Invert(ft): 0.000          0.000                        Exit Loss Coef: 1.000
  Manning's N: 0.024000       0.024000                   Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000          0.000                       Inlet Ctrl Spec: Use dc
 Bot Clip(in): 0.000          0.000                         Solution Incs: 10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall



*** Weir 1 of 4 for Drop Structure IMMAN LUTH ***
                                                                                      TABLE
                 Count: 1                      Bottom Clip(in): 0.000
                  Type: Vertical: Mavis           Top Clip(in): 0.000
                  Flow: Both                   Weir Disc Coef: 3.200
              Geometry: Circular              Orifice Disc Coef: 0.600

              Span(in): 3.00                        Invert(ft): 4.000
              Rise(in): 3.00                  Control Elev(ft): 4.000

*** Weir 2 of 4 for Drop Structure IMMAN LUTH ***
                                                                                      TABLE
                 Count: 1                      Bottom Clip(in): 0.000
                  Type: Vertical: Mavis           Top Clip(in): 0.000
                  Flow: Both                   Weir Disc Coef: 3.200
              Geometry: Rectangular           Orifice Disc Coef: 0.600

              Span(in): 6.00                        Invert(ft): 5.810
              Rise(in): 11.52                 Control Elev(ft): 5.810

*** Weir 3 of 4 for Drop Structure IMMAN LUTH ***
                                                                                      TABLE
                 Count: 1                      Bottom Clip(in): 0.000
                  Type: Vertical: Mavis           Top Clip(in): 0.000
                  Flow: Both                   Weir Disc Coef: 3.200
              Geometry: Rectangular           Orifice Disc Coef: 0.600

              Span(in): 48.00                       Invert(ft): 6.770
              Rise(in): 8.88                  Control Elev(ft): 6.770

*** Weir 4 of 4 for Drop Structure IMMAN LUTH ***
                                                                                      TABLE
                 Count: 1                      Bottom Clip(in): 0.000
                  Type: Horizontal               Top Clip(in): 0.000
                  Flow: Both                   Weir Disc Coef: 3.200
              Geometry: Rectangular           Orifice Disc Coef: 0.600

              Span(in): 54.00                       Invert(ft): 7.510
              Rise(in): 36.00                 Control Elev(ft): 7.510


-------------------------------------------------------------------------------------------------
         Name: PALM TN SQR         From Node: B08-PALM TN SQR    Length(ft): 50.00
        Group: DANFORTH              To Node: D07-MARN HY-DN          Count: 1

              UPSTREAM       DOWNSTREAM                 Friction Equation: Automatic
     Geometry: Circular       Circular                 Solution Algorithm: Most Restrictive
     Span(in): 24.00          24.00                                Flow: Both
     Rise(in): 24.00          24.00                    Entrance Loss Coef: 0.000
   Invert(ft): 12.000         12.000                       Exit Loss Coef: 1.000
  Manning's N: 0.013000       0.013000                   Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000          0.000                       Inlet Ctrl Spec: Use dc
 Bot Clip(in): 0.000          0.000                         Solution Incs: 10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall



*** Weir 1 of 3 for Drop Structure PALM TN SQR ***
                                                                                      TABLE
                 Count: 1                      Bottom Clip(in): 0.000
                  Type: Vertical: Mavis           Top Clip(in): 0.000
                  Flow: Both                   Weir Disc Coef: 3.200
              Geometry: Circular              Orifice Disc Coef: 0.600

              Span(in): 3.00                        Invert(ft): 12.000
              Rise(in): 3.00                  Control Elev(ft): 12.000

*** Weir 2 of 3 for Drop Structure PALM TN SQR ***
```

```
                                                                                TABLE
                Count: 1                      Bottom Clip(in): 0.000
                 Type: Vertical: Mavis           Top Clip(in): 0.000
                 Flow: Both                    Weir Disc Coef: 3.200
             Geometry: Rectangular           Orifice Disc Coef: 0.600

             Span(in): 3.40                        Invert(ft): 16.500
             Rise(in): 12.00                 Control Elev(ft): 16.500

*** Weir 3 of 3 for Drop Structure PALM TN SQR ***
                                                                                TABLE
                Count: 1                      Bottom Clip(in): 0.000
                 Type: Horizontal               Top Clip(in): 0.000
                 Flow: Both                    Weir Disc Coef: 3.200
             Geometry: Rectangular           Orifice Disc Coef: 0.600

             Span(in): 54.00                       Invert(ft): 17.170
             Rise(in): 36.00                 Control Elev(ft): 17.170


================================================================================
==== Weirs =====================================================================
================================================================================

        Name: CHARTER CL 1        From Node: B02-THE CHARTER
       Group: DANFORTH              To Node: B01-PINE RIDGE
        Flow: Both                    Count: 1
        Type: Vertical: Mavis      Geometry: Rectangular

                  Span(in): 36.00
                  Rise(in): 99999.00
                Invert(ft): 7.000
     Control Elevation(ft): 7.000
                                          TABLE
           Bottom Clip(in): 0.000
              Top Clip(in): 0.000
       Weir Discharge Coef: 3.200
    Orifice Discharge Coef: 0.600


--------------------------------------------------------------------------------
        Name: CHARTER CL 2        From Node: B02-THE CHARTER
       Group: DANFORTH              To Node: B01-PINE RIDGE
        Flow: Both                    Count: 1
        Type: Vertical: Mavis      Geometry: Trapezoidal

          Bottom Width(ft): 0.00
     Left Side Slope(h/v): 0.25
    Right Side Slope(h/v): 0.25
                Invert(ft): 4.000
     Control Elevation(ft): 4.000
    Struct Opening Dim(ft): 1.00
                                          TABLE
           Bottom Clip(ft): 0.000
              Top Clip(ft): 0.000
       Weir Discharge Coef: 3.200
    Orifice Discharge Coef: 0.600


--------------------------------------------------------------------------------
        Name: DAN-01-SUNSET       From Node: D04-SUNSET-UP
       Group: DANFORTH              To Node: D03-SUNSET-DN
        Flow: Both                    Count: 1
        Type: Vertical: Fread      Geometry: Rectangular

                  Span(in): 3600.00
                  Rise(in): 999999.00
                Invert(ft): 13.240
     Control Elevation(ft): 13.240
                                          TABLE
           Bottom Clip(in): 0.000
              Top Clip(in): 0.000
       Weir Discharge Coef: 2.800
    Orifice Discharge Coef: 0.600


--------------------------------------------------------------------------------
        Name: DAN-02-MART HWY     From Node: D08-MARTN HY-UP
       Group: DANFORTH              To Node: D07-MARN HY-DN
        Flow: Both                    Count: 1
        Type: Vertical: Fread      Geometry: Rectangular

                  Span(in): 4200.00
                  Rise(in): 9999999.00
                Invert(ft): 18.200
     Control Elevation(ft): 18.200
                                          TABLE
           Bottom Clip(in): 0.000
              Top Clip(in): 0.000
       Weir Discharge Coef: 2.800
    Orifice Discharge Coef: 0.600
```

```
--------------------------------------------------------------------------------------------------
        Name: DAN-03-BERRY AV     From Node: D10-BERRY AV UP
       Group: DANFORTH              To Node: D09-BARRY AV DN
        Flow: Both                    Count: 1
        Type: Vertical: Fread      Geometry: Rectangular

                  Span(in): 3600.00
                  Rise(in): 9999.00
                Invert(ft): 16.100
     Control Elevation(ft): 16.100
                                          TABLE
           Bottom Clip(in): 0.000
              Top Clip(in): 0.000
        Weir Discharge Coef: 2.800
    Orifice Discharge Coef: 0.600



--------------------------------------------------------------------------------------------------
        Name: DAN-04-HIGH MEA     From Node: D14-HIGH MEA-UP
       Group: DANFORTH              To Node: D13-HIGH MEA-DN
        Flow: Both                    Count: 1
        Type: Vertical: Fread      Geometry: Rectangular

                  Span(in): 3600.00
                  Rise(in): 9999.00
                Invert(ft): 17.000
     Control Elevation(ft): 17.000
                                          TABLE
           Bottom Clip(in): 0.000
              Top Clip(in): 0.000
        Weir Discharge Coef: 2.800
    Orifice Discharge Coef: 0.600

High Meadows Roadway Overflow

--------------------------------------------------------------------------------------------------
        Name: DAN-05-TURNPIKE     From Node: D16-TURNPIKE-UP
       Group: DANFORTH              To Node: D15-TURNPIKE-DN
        Flow: Both                    Count: 1
        Type: Vertical: Fread      Geometry: Rectangular

                  Span(in): 4200.00
                  Rise(in): 99999.00
                Invert(ft): 19.260
     Control Elevation(ft): 19.260
                                          TABLE
           Bottom Clip(in): 0.000
              Top Clip(in): 0.000
        Weir Discharge Coef: 2.800
    Orifice Discharge Coef: 0.600



--------------------------------------------------------------------------------------------------
        Name: DAN-06-LEIGHTON     From Node: D18-LEIGHTON-UP
       Group: DANFORTH              To Node: D17-LEIGHTON-DN
        Flow: Both                    Count: 1
        Type: Vertical: Fread      Geometry: Rectangular

                  Span(in): 1200.00
                  Rise(in): 99999.00
                Invert(ft): 19.300
     Control Elevation(ft): 19.300
                                          TABLE
           Bottom Clip(in): 0.000
              Top Clip(in): 0.000
        Weir Discharge Coef: 2.800
    Orifice Discharge Coef: 0.600



--------------------------------------------------------------------------------------------------
        Name: DAN-07-42ND AVE     From Node: D21-42ND AVE-UP
       Group: DANFORTH              To Node: D20-42ND AVE-DN
        Flow: Both                    Count: 1
        Type: Vertical: Fread      Geometry: Rectangular

                  Span(in): 1200.00
                  Rise(in): 99999.00
                Invert(ft): 19.800
     Control Elevation(ft): 19.800
                                          TABLE
           Bottom Clip(in): 0.000
              Top Clip(in): 0.000
        Weir Discharge Coef: 2.800
    Orifice Discharge Coef: 0.600



--------------------------------------------------------------------------------------------------
        Name: DAN-08-SR76A        From Node: D24-SR76A-UP
       Group: DANFORTH              To Node: D23-SR76A-DN
        Flow: Both                    Count: 1
        Type: Vertical: Fread      Geometry: Rectangular

                  Span(in): 6984.00
```

```
                  Rise(in): 99999.00
                Invert(ft): 22.770
       Control Elevation(ft): 22.770
                                        TABLE
            Bottom Clip(in): 0.000
               Top Clip(in): 0.000
          Weir Discharge Coef: 2.800
      Orifice Discharge Coef: 0.600


--------------------------------------------------------------------------------------------
        Name: DAN-10 OVER         From Node: D28-MID5.47-UP
       Group: DANFORTH              To Node: D27-MID5.47-DN
        Flow: Both                    Count: 1
        Type: Vertical: Fread     Geometry: Rectangular

                  Span(in): 4632.00
                  Rise(in): 99999.00
                Invert(ft): 22.800
       Control Elevation(ft): 22.800
                                        TABLE
            Bottom Clip(in): 0.000
               Top Clip(in): 0.000
          Weir Discharge Coef: 2.800
      Orifice Discharge Coef: 0.600


--------------------------------------------------------------------------------------------
        Name: DAN-12 OVER         From Node: D30-MID5.558-UP
       Group: DANFORTH              To Node: D29-MID5.558-DN
        Flow: Both                    Count: 1
        Type: Vertical: Fread     Geometry: Rectangular

                  Span(in): 4632.00
                  Rise(in): 99999999.00
                Invert(ft): 22.800
       Control Elevation(ft): 22.800
                                        TABLE
            Bottom Clip(in): 0.000
               Top Clip(in): 0.000
          Weir Discharge Coef: 2.800
      Orifice Discharge Coef: 0.600


--------------------------------------------------------------------------------------------
        Name: DAN-13 OVER         From Node: D32-MID5.585-UP
       Group: DANFORTH              To Node: D31-MID5.585-DN
        Flow: Both                    Count: 1
        Type: Vertical: Fread     Geometry: Rectangular

                  Span(in): 4632.00
                  Rise(in): 9999999.00
                Invert(ft): 23.500
       Control Elevation(ft): 23.500
                                        TABLE
            Bottom Clip(in): 0.000
               Top Clip(in): 0.000
          Weir Discharge Coef: 2.800
      Orifice Discharge Coef: 0.600


--------------------------------------------------------------------------------------------
        Name: DAN-14 OVER         From Node: D35-MID6.216-UP
       Group: DANFORTH              To Node: D34-MID6.216-Dn
        Flow: Both                    Count: 1
        Type: Vertical: Fread     Geometry: Rectangular

                  Span(in): 4908.00
                  Rise(in): 9999999.00
                Invert(ft): 22.900
       Control Elevation(ft): 22.900
                                        TABLE
            Bottom Clip(in): 0.000
               Top Clip(in): 0.000
          Weir Discharge Coef: 2.800
      Orifice Discharge Coef: 0.600


--------------------------------------------------------------------------------------------
        Name: DAN-15 OVER         From Node: D37-MID6.30-UP
       Group: DANFORTH              To Node: D36-MID6.30-DN
        Flow: Both                    Count: 1
        Type: Vertical: Fread     Geometry: Rectangular

                  Span(in): 4908.00
                  Rise(in): 9999999.00
                Invert(ft): 22.800
       Control Elevation(ft): 22.800
                                        TABLE
            Bottom Clip(in): 0.000
               Top Clip(in): 0.000
          Weir Discharge Coef: 2.800
```

```
      Orifice Discharge Coef: 0.600


--------------------------------------------------------------------------------------------------
        Name: DAN-16 OVER         From Node: D39-MID6.312-UP
       Group: DANFORTH              To Node: D38-MID6.312-DN
        Flow: Both                    Count: 1
        Type: Vertical: Fread      Geometry: Rectangular

                    Span(in): 4908.00
                    Rise(in): 9999999.00
                  Invert(ft): 23.700
       Control Elevation(ft): 23.700
                                         TABLE
             Bottom Clip(in): 0.000
                Top Clip(in): 0.000
          Weir Discharge Coef: 2.800
      Orifice Discharge Coef: 0.600


--------------------------------------------------------------------------------------------------
        Name: DAN-9 OVER          From Node: D26-MID5.435-UP
       Group: DANFORTH              To Node: D25-MID5.435-DN
        Flow: Both                    Count: 1
        Type: Vertical: Fread      Geometry: Rectangular

                    Span(in): 3228.00
                    Rise(in): 9999.00
                  Invert(ft): 22.300
       Control Elevation(ft): 22.300
                                         TABLE
             Bottom Clip(in): 0.000
                Top Clip(in): 0.000
          Weir Discharge Coef: 2.800
      Orifice Discharge Coef: 0.600


--------------------------------------------------------------------------------------------------
        Name: GARDENS 1A          From Node: B04-GARDENS 1
       Group: DANFORTH              To Node: D05-GARDENS 1
        Flow: Both                    Count: 1
        Type: Horizontal           Geometry: Rectangular

                    Span(in): 39.96
                    Rise(in): 51.96
                  Invert(ft): 14.250
       Control Elevation(ft): 14.250
                                         TABLE
             Bottom Clip(in): 0.000
                Top Clip(in): 0.000
          Weir Discharge Coef: 3.200
      Orifice Discharge Coef: 0.600


--------------------------------------------------------------------------------------------------
        Name: GARDENS 1B          From Node: B04-GARDENS 1
       Group: DANFORTH              To Node: D05-GARDENS 1
        Flow: Both                    Count: 1
        Type: Vertical: Mavis      Geometry: Trapezoidal

                Bottom Width(ft): 0.00
         Left Side Slope(h/v): 0.88
        Right Side Slope(h/v): 0.88
                  Invert(ft): 10.500
       Control Elevation(ft): 10.500
      Struct Opening Dim(ft): 0.80
                                         TABLE
             Bottom Clip(ft): 0.000
                Top Clip(ft): 0.000
          Weir Discharge Coef: 3.200
      Orifice Discharge Coef: 0.600


--------------------------------------------------------------------------------------------------
        Name: HAMMOCK CK OVR      From Node: B12-HAMMOCK CRK
       Group: DANFORTH              To Node: D12-30TH AVE
        Flow: Both                    Count: 1
        Type: Vertical: Fread      Geometry: Rectangular

                    Span(in): 120.00
                    Rise(in): 99999.00
                  Invert(ft): 17.700
       Control Elevation(ft): 17.700
                                         TABLE
             Bottom Clip(in): 0.000
                Top Clip(in): 0.000
          Weir Discharge Coef: 2.800
      Orifice Discharge Coef: 0.600


--------------------------------------------------------------------------------------------------
```

```
        Name: HUMAN SC 1          From Node: B14-HUMAN SC
       Group: DANFORTH              To Node: D18-LEIGHTON-UP
        Flow: Both                    Count: 1
        Type: Vertical: Mavis      Geometry: Rectangular

                    Span(in): 9.60
                    Rise(in): 9999.00
                  Invert(ft): 16.250
      Control Elevation(ft): 16.250
                                        TABLE
            Bottom Clip(in): 0.000
               Top Clip(in): 0.000
         Weir Discharge Coef: 3.200
     Orifice Discharge Coef: 0.600



--------------------------------------------------------------------------------------------------
        Name: HUMAN SC 2          From Node: B14-HUMAN SC
       Group: DANFORTH              To Node: D18-LEIGHTON-UP
        Flow: Both                    Count: 1
        Type: Vertical: Mavis      Geometry: Circular

                    Span(in): 3.00
                    Rise(in): 3.00
                  Invert(ft): 15.000
      Control Elevation(ft): 15.000
                                        TABLE
            Bottom Clip(in): 0.000
               Top Clip(in): 0.000
         Weir Discharge Coef: 3.200
     Orifice Discharge Coef: 0.600



--------------------------------------------------------------------------------------------------
        Name: HUMAN SC 3          From Node: B14-HUMAN SC
       Group: DANFORTH              To Node: D18-LEIGHTON-UP
        Flow: Both                    Count: 1
        Type: Horizontal           Geometry: Rectangular

                    Span(in): 54.00
                    Rise(in): 36.00
                  Invert(ft): 17.850
      Control Elevation(ft): 17.850
                                        TABLE
            Bottom Clip(in): 0.000
               Top Clip(in): 0.000
         Weir Discharge Coef: 3.200
     Orifice Discharge Coef: 0.600



--------------------------------------------------------------------------------------------------
        Name: MAPLEWOOD-1         From Node: B17-MAPLEWOOD
       Group: DANFORTH              To Node: D00-MAPP RD UP
        Flow: Both                    Count: 1
        Type: Vertical: Mavis      Geometry: Rectangular

                    Span(in): 3.00
                    Rise(in): 6.00
                  Invert(ft): 5.000
      Control Elevation(ft): 5.000
                                        TABLE
            Bottom Clip(in): 0.000
               Top Clip(in): 0.000
         Weir Discharge Coef: 3.200
     Orifice Discharge Coef: 0.600



--------------------------------------------------------------------------------------------------
        Name: MAPLEWOOD-2         From Node: B17-MAPLEWOOD
       Group: DANFORTH              To Node: D00-MAPP RD UP
        Flow: Both                    Count: 1
        Type: Vertical: Mavis      Geometry: Rectangular

                    Span(in): 20.40
                    Rise(in): 6.00
                  Invert(ft): 5.500
      Control Elevation(ft): 5.500
                                        TABLE
            Bottom Clip(in): 0.000
               Top Clip(in): 0.000
         Weir Discharge Coef: 3.200
     Orifice Discharge Coef: 0.600



--------------------------------------------------------------------------------------------------
        Name: MAPLEWOOD-3         From Node: B17-MAPLEWOOD
       Group: DANFORTH              To Node: D00-MAPP RD UP
        Flow: Both                    Count: 1
        Type: Vertical: Mavis      Geometry: Rectangular

                    Span(in): 72.00
                    Rise(in): 99999.00
```

```
                Invert(ft): 6.000
       Control Elevation(ft): 6.000
                                       TABLE
             Bottom Clip(in): 0.000
                Top Clip(in): 0.000
          Weir Discharge Coef: 3.200
      Orifice Discharge Coef: 0.600


-------------------------------------------------------------------------------------------
         Name: MAPP ROAD OVER      From Node: D00-MAPP RD UP
        Group: BASE                  To Node: D00-MAPP RD DN
         Flow: Both                    Count: 1
         Type: Vertical: Fread      Geometry: Irregular

                     XSec: MAPP RD PROF
                Invert(ft): 4.250
       Control Elevation(ft): 4.250
      Struct Opening Dim(ft): 9999.00
                                       TABLE
             Bottom Clip(ft): 0.000
                Top Clip(ft): 0.000
          Weir Discharge Coef: 2.600
      Orifice Discharge Coef: 0.600


-------------------------------------------------------------------------------------------
         Name: MONARCH 1           From Node: B03-MONARCH CNT
        Group: DANFORTH              To Node: B01-PINE RIDGE
         Flow: Both                    Count: 1
         Type: Horizontal          Geometry: Rectangular

                  Span(in): 54.00
                  Rise(in): 36.00
                Invert(ft): 10.420
       Control Elevation(ft): 10.420
                                       TABLE
             Bottom Clip(in): 0.000
                Top Clip(in): 0.000
          Weir Discharge Coef: 3.200
      Orifice Discharge Coef: 0.600


-------------------------------------------------------------------------------------------
         Name: MONARCH 2           From Node: B03-MONARCH CNT
        Group: DANFORTH              To Node: B01-PINE RIDGE
         Flow: Both                    Count: 1
         Type: Vertical: Mavis     Geometry: Trapezoidal

            Bottom Width(ft): 0.00
        Left Side Slope(h/v): 1.00
       Right Side Slope(h/v): 1.00
                Invert(ft): 6.000
       Control Elevation(ft): 6.000
      Struct Opening Dim(ft): 1.00
                                       TABLE
             Bottom Clip(ft): 0.000
                Top Clip(ft): 0.000
          Weir Discharge Coef: 3.200
      Orifice Discharge Coef: 0.600


-------------------------------------------------------------------------------------------
         Name: MONARCH 3           From Node: B03-MONARCH CNT
        Group: DANFORTH              To Node: B01-PINE RIDGE
         Flow: Both                    Count: 1
         Type: Vertical: Mavis     Geometry: Rectangular

                  Span(in): 24.00
                  Rise(in): 9999.00
                Invert(ft): 7.000
       Control Elevation(ft): 7.000
                                       TABLE
             Bottom Clip(in): 0.000
                Top Clip(in): 0.000
          Weir Discharge Coef: 3.200
      Orifice Discharge Coef: 0.600


-------------------------------------------------------------------------------------------
         Name: OAKBROOK 1          From Node: B15-OAKBROOK ES
        Group: DANFORTH              To Node: D38-MID6.312-DN
         Flow: Both                    Count: 1
         Type: Vertical: Mavis     Geometry: Rectangular

                  Span(in): 96.00
                  Rise(in): 9999.00
                Invert(ft): 23.900
       Control Elevation(ft): 23.900
                                       TABLE
             Bottom Clip(in): 0.000
                Top Clip(in): 0.000
```

```
        Weir Discharge Coef: 3.200
     Orifice Discharge Coef: 0.600


--------------------------------------------------------------------------------
        Name: OAKBROOK 2          From Node: B15-OAKBROOK ES
       Group: DANFORTH              To Node: D38-MID6.312-DN
        Flow: Both                    Count: 1
        Type: Vertical: Mavis      Geometry: Rectangular

                  Span(in): 48.00
                  Rise(in): 10.80
                Invert(ft): 23.000
      Control Elevation(ft): 23.000
                                        TABLE
            Bottom Clip(in): 0.000
               Top Clip(in): 0.000
        Weir Discharge Coef: 3.200
     Orifice Discharge Coef: 0.600


--------------------------------------------------------------------------------
        Name: Palm B. Park 1      From Node: B13-PLM C B PRK
       Group: DANFORTH              To Node: D15-TURNPIKE-DN
        Flow: Both                    Count: 1
        Type: Vertical: Mavis      Geometry: Rectangular

                  Span(in): 36.00
                  Rise(in): 9999.00
                Invert(ft): 17.760
      Control Elevation(ft): 17.760
                                        TABLE
            Bottom Clip(in): 0.000
               Top Clip(in): 0.000
        Weir Discharge Coef: 3.200
     Orifice Discharge Coef: 0.600


--------------------------------------------------------------------------------
        Name: Palm B. Park 2      From Node: B13-PLM C B PRK
       Group: DANFORTH              To Node: D15-TURNPIKE-DN
        Flow: Both                    Count: 1
        Type: Vertical: Mavis      Geometry: Rectangular

                  Span(in): 13.50
                  Rise(in): 3.00
                Invert(ft): 16.600
      Control Elevation(ft): 16.600
                                        TABLE
            Bottom Clip(in): 0.000
               Top Clip(in): 0.000
        Weir Discharge Coef: 3.200
     Orifice Discharge Coef: 0.600


--------------------------------------------------------------------------------
        Name: Palm B. Park 3      From Node: B13-PLM C B PRK
       Group: DANFORTH              To Node: D15-TURNPIKE-DN
        Flow: Both                    Count: 1
        Type: Vertical: Mavis      Geometry: Circular

                  Span(in): 3.00
                  Rise(in): 3.00
                Invert(ft): 14.500
      Control Elevation(ft): 14.500
                                        TABLE
            Bottom Clip(in): 0.000
               Top Clip(in): 0.000
        Weir Discharge Coef: 3.200
     Orifice Discharge Coef: 0.600


--------------------------------------------------------------------------------
        Name: PINE RIDGE 1        From Node: B01-PINE RIDGE
       Group: DANFORTH              To Node: D02-PINE RIDGE
        Flow: Both                    Count: 1
        Type: Vertical: Mavis      Geometry: Rectangular

                  Span(in): 55.44
                  Rise(in): 999999.00
                Invert(ft): 7.000
      Control Elevation(ft): 7.000
                                        TABLE
            Bottom Clip(in): 0.000
               Top Clip(in): 0.000
        Weir Discharge Coef: 3.200
     Orifice Discharge Coef: 0.600


--------------------------------------------------------------------------------
        Name: PINE RIDGE 2        From Node: B01-PINE RIDGE
```

```
        Group: DANFORTH              To Node: D02-PINE RIDGE
         Flow: Both                    Count: 1
         Type: Vertical: Mavis      Geometry: Rectangular

                    Span(in): 8.40
                    Rise(in): 36.00
                  Invert(ft): 4.000
       Control Elevation(ft): 4.000
                                         TABLE
             Bottom Clip(in): 0.000
                Top Clip(in): 0.000
          Weir Discharge Coef: 3.200
      Orifice Discharge Coef: 0.600


-------------------------------------------------------------------------------------------------
         Name: PRESBYTERIAN 1      From Node: B11-PRESBYTERN
        Group: DANFORTH              To Node: D11-CHURCH-OUT
         Flow: Both                    Count: 1
         Type: Vertical: Mavis      Geometry: Rectangular

                    Span(in): 13.80
                    Rise(in): 99999.00
                  Invert(ft): 17.100
       Control Elevation(ft): 17.100
                                         TABLE
             Bottom Clip(in): 0.000
                Top Clip(in): 0.000
          Weir Discharge Coef: 3.200
      Orifice Discharge Coef: 0.600


-------------------------------------------------------------------------------------------------
         Name: PRESBYTERIAN 2      From Node: B11-PRESBYTERN
        Group: DANFORTH              To Node: D11-CHURCH-OUT
         Flow: Both                    Count: 1
         Type: Vertical: Mavis      Geometry: Circular

                    Span(in): 3.00
                    Rise(in): 3.00
                  Invert(ft): 15.000
       Control Elevation(ft): 15.000
                                         TABLE
             Bottom Clip(in): 0.000
                Top Clip(in): 0.000
          Weir Discharge Coef: 3.200
      Orifice Discharge Coef: 0.600


-------------------------------------------------------------------------------------------------
         Name: PRESBYTERIAN 3      From Node: B11-PRESBYTERN
        Group: DANFORTH              To Node: D11-CHURCH-OUT
         Flow: Both                    Count: 1
         Type: Vertical: Fread      Geometry: Rectangular

                    Span(in): 7800.00
                    Rise(in): 9999.00
                  Invert(ft): 18.000
       Control Elevation(ft): 18.000
                                         TABLE
             Bottom Clip(in): 0.000
                Top Clip(in): 0.000
          Weir Discharge Coef: 3.200
      Orifice Discharge Coef: 0.600

BERM OVERFLOW TO THE CREEK

-------------------------------------------------------------------------------------------------
         Name: REGENCY PALMS 1     From Node: B09-REGENCY PLM
        Group: DANFORTH              To Node: D08-MARTN HY-UP
         Flow: Both                    Count: 1
         Type: Vertical: Mavis      Geometry: Rectangular

                    Span(in): 48.00
                    Rise(in): 3.60
                  Invert(ft): 14.270
       Control Elevation(ft): 14.270
                                         TABLE
             Bottom Clip(in): 0.000
                Top Clip(in): 0.000
          Weir Discharge Coef: 3.200
      Orifice Discharge Coef: 0.600


-------------------------------------------------------------------------------------------------
         Name: REGENCY PALMS 2     From Node: B09-REGENCY PLM
        Group: DANFORTH              To Node: D08-MARTN HY-UP
         Flow: Both                    Count: 1
         Type: Vertical: Mavis      Geometry: Trapezoidal

            Bottom Width(ft): 0.00
         Left Side Slope(h/v): 0.38
        Right Side Slope(h/v): 0.38
```

```
                Invert(ft): 13.500
      Control Elevation(ft): 13.500
     Struct Opening Dim(ft): 0.77
                                          TABLE
           Bottom Clip(ft): 0.000
              Top Clip(ft): 0.000
        Weir Discharge Coef: 3.200
     Orifice Discharge Coef: 0.600



--------------------------------------------------------------------------------------------------
        Name: REGENCY PALMS 3     From Node: B09-REGENCY PLM
       Group: DANFORTH              To Node: D08-MARTN HY-UP
        Flow: Both                    Count: 1
        Type: Horizontal           Geometry: Rectangular

                Span(in): 54.00
                Rise(in): 36.00
              Invert(ft): 16.920
      Control Elevation(ft): 16.920
                                          TABLE
           Bottom Clip(in): 0.000
              Top Clip(in): 0.000
        Weir Discharge Coef: 3.200
     Orifice Discharge Coef: 0.600

25 YEAR OVERFLOW

--------------------------------------------------------------------------------------------------
        Name: THE VILLAS 1        From Node: B07-THE VILLAS
       Group: DANFORTH              To Node: D06-VILLAS-OUT
        Flow: Both                    Count: 1
        Type: Vertical: Mavis      Geometry: Rectangular

                Span(in): 54.00
                Rise(in): 99999.00
              Invert(ft): 15.500
      Control Elevation(ft): 15.500
                                          TABLE
           Bottom Clip(in): 0.000
              Top Clip(in): 0.000
        Weir Discharge Coef: 3.200
     Orifice Discharge Coef: 0.600



--------------------------------------------------------------------------------------------------
        Name: THE VILLAS 2        From Node: B07-THE VILLAS
       Group: DANFORTH              To Node: D06-VILLAS-OUT
        Flow: Both                    Count: 1
        Type: Vertical: Mavis      Geometry: Trapezoidal

           Bottom Width(ft): 0.00
      Left Side Slope(h/v): 0.25
     Right Side Slope(h/v): 0.25
              Invert(ft): 12.500
      Control Elevation(ft): 12.500
     Struct Opening Dim(ft): 1.00
                                          TABLE
           Bottom Clip(ft): 0.000
              Top Clip(ft): 0.000
        Weir Discharge Coef: 3.200
     Orifice Discharge Coef: 0.600



--------------------------------------------------------------------------------------------------
        Name: THE VILLAS 3        From Node: B07-THE VILLAS
       Group: DANFORTH              To Node: D06-VILLAS-OUT
        Flow: Both                    Count: 1
        Type: Horizontal           Geometry: Rectangular

                Span(in): 54.00
                Rise(in): 36.00
              Invert(ft): 15.800
      Control Elevation(ft): 15.800
                                          TABLE
           Bottom Clip(in): 0.000
              Top Clip(in): 0.000
        Weir Discharge Coef: 3.200
     Orifice Discharge Coef: 0.600

25 YEAR OVERFLOW

================================================================================
==== Hydrology Simulations ====================================================
================================================================================

        Name: 010 YEAR 1 DAY
    Filename: P:\1200\1207.26 Danforth Creek\drainage\ICPR3\Revision 11-02-10\PRE\010 YEAR 1 DAY.R32

     Override Defaults: Yes
   Storm Duration(hrs): 24.00
         Rainfall File: Flmod
   Rainfall Amount(in): 6.60
```

Time(hrs)	Print Inc(min)
72.000	5.00

Name: 025 YEAR 3 DAY
Filename: P:\1200\1207.26 Danforth Creek\drainage\ICPR3\Revision 11-02-10\PRE\025 YEAR 3 DAY.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: Sfwmd72
Rainfall Amount(in): 11.00

Time(hrs)	Print Inc(min)
50.000	30.00
90.000	5.00
360.000	30.00

Name: 100 YEAR 3 DAY
Filename: P:\1200\1207.26 Danforth Creek\drainage\ICPR3\Revision 11-02-10\PRE\100 YEAR 3 DAY.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: Sfwmd72
Rainfall Amount(in): 13.00

Time(hrs)	Print Inc(min)
50.000	30.00
90.000	5.00
360.000	30.00

Name: TS FAY
Filename: P:\1200\1207.26 Danforth Creek\drainage\ICPR3\Revision 11-02-10\PRE\TS FAY.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: Sfwmd72
Rainfall Amount(in): 6.35

Time(hrs)	Print Inc(min)
50.000	30.00
90.000	5.00
360.000	30.00

==== Routing Simulations ====

Name: 010YEAR1DAY Hydrology Sim: 010 YEAR 1 DAY
Filename: P:\1200\1207.26 Danforth Creek\drainage\ICPR3\Revision 11-02-10\PRE\010YEAR1DAY.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 72.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 010 YEAR Boundary Flows:

Time(hrs)	Print Inc(min)
72.000	5.000

Group	Run
BASE	Yes
DANFORTH	Yes

Name: 025YEAR3DAY Hydrology Sim: 025 YEAR 3 DAY
Filename: P:\1200\1207.26 Danforth Creek\drainage\ICPR3\Revision 11-02-10\PRE\025YEAR3DAY.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 360.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 025 YEAR Boundary Flows:

Time(hrs)	Print Inc(min)
50.000	30.000
90.000	5.000
360.000	30.000

Group	Run
BASE	Yes
DANFORTH	Yes

Name: 100YEAR3DAY Hydrology Sim: 100 YEAR 3 DAY
Filename: P:\1200\1207.26 Danforth Creek\drainage\ICPR3\Revision 11-02-10\PRE\100YEAR3DAY.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 150.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 100 YEAR Boundary Flows:

Time(hrs)	Print Inc(min)
50.000	30.000
90.000	5.000
150.000	30.000

Group	Run
BASE	Yes
DANFORTH	Yes

Name: TS FAY Hydrology Sim: TS FAY
Filename: P:\1200\1207.26 Danforth Creek\drainage\ICPR3\Revision 11-02-10\PRE\TS FAY.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 72.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 025 YEAR Boundary Flows:

Time(hrs)	Print Inc(min)
50.000	30.000
90.000	5.000
360.000	30.000

Group	Run
BASE	Yes
DANFORTH	Yes

Boundary Conditions

Name: 100 YEAR Node: D-00 RIVER TW Type: Stage

Time(hrs)	Stage(ft)
0.000	2.000
60.000	4.000
360.000	2.000

Name: 025 YEAR Node: D-00 RIVER TW Type: Stage

Time(hrs)	Stage(ft)
0.000	2.000
60.000	4.000
360.000	2.000

Name: 010 YEAR Node: D-00 RIVER TW Type: Stage

Time(hrs)	Stage(ft)
0.000	2.000
12.000	2.000
72.000	2.000

Name: 025 YEAR Node: B10-DANFORTH RS Type: Stage

Time(hrs)	Stage(ft)
0.000	12.000

68.000	14.400
120.000	12.000
360.000	12.000

Name: 100 YEAR Node: B10-DANFORTH RS Type: Stage

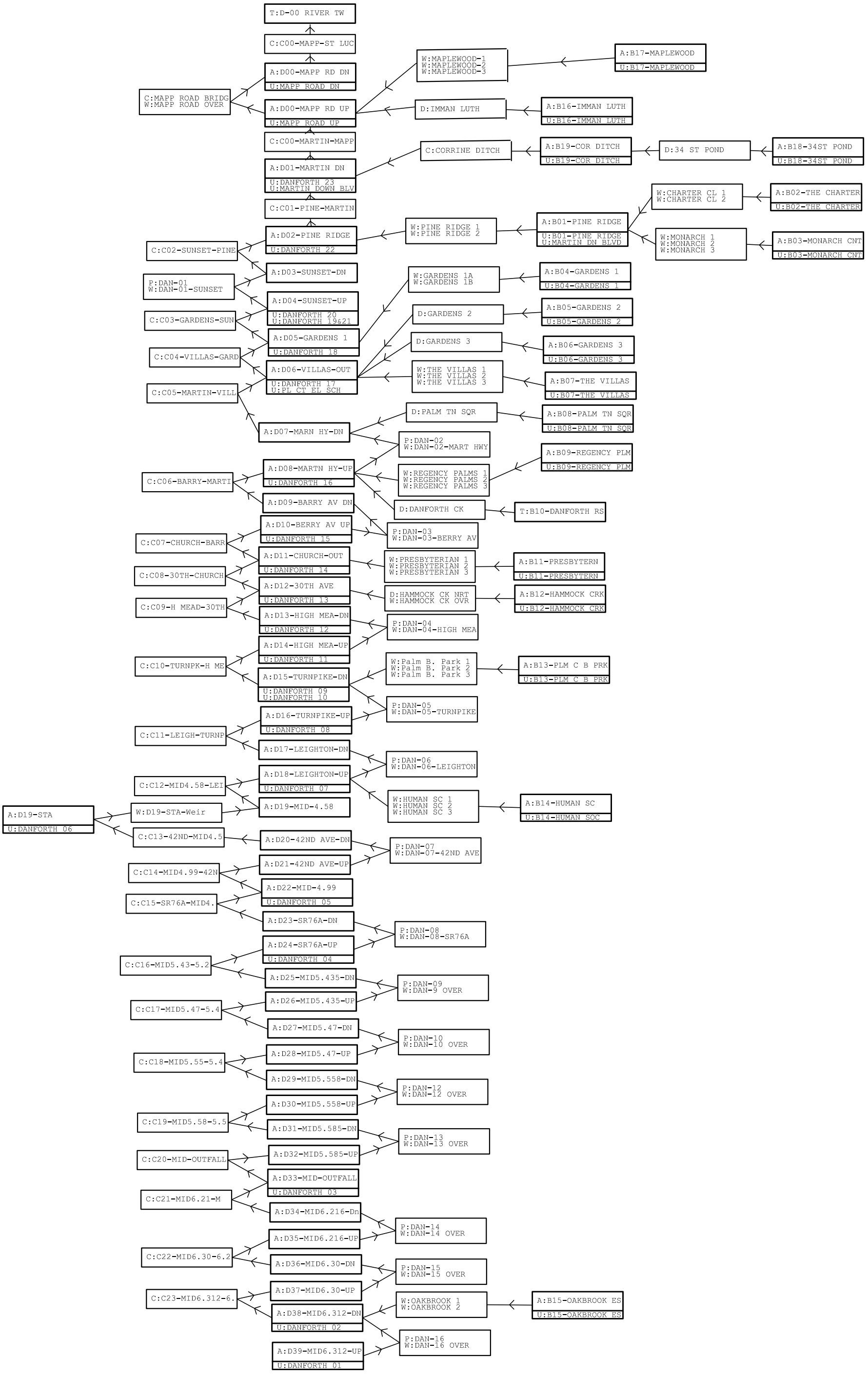
Time(hrs)	Stage(ft)
0.000	12.000
68.000	15.000
120.000	12.000
360.000	12.000

DANFORTH CREEK
STORM WATER QUALITY RETROFIT

ICPR MODEL
OF
PROPOSED CONDITIONS (STA 5)

SUBMITTED BY:

CAPTEC Engineering, Inc.
Civil Engineering Professionals



THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADOPTION BY CAPTEC ENGINEERING, INC. SHALL BE WITHOUT LIABILITY TO CAPTEC ENGINEERING, INC.

JOB No.: 1207.2
SHEET 1 OF 1

Printed Date:

Joseph W. Capra
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638

DANFORTH CREEK WATER QUALITY RETROFIT

MARTIN COUNTY, FL

POST-DEVELOPMENT NODE-REACH DIAGRAM FOR STA 5

SCALE VERIFICATION

0 ——— 0.5

SOLID BAR IS EQUAL TO HALF AN INCH ON ORIGINAL DRAWING, ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

NO.	DATE	BY	REVISIONS

DATE: 12/02/08
DRAWN BY:
DESIGNED BY: MS
CHECKED BY: JWC
PROJECT No.: 1207.2
HORZ. SCALE: N/A
VERT. SCALE: N/A
CADD FILE: PRE-NODE

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DANFORTH CREEK WATER WUALITY RETROFIT
CAPTEC PROJECT NO. 1207.26
POST DEVELOPMENT ICPR MODEL
NODE MAXIMUM REPORT

Name	Simulation	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Inflow cfs	Max Outflow cfs
B01-PINE RIDGE	010YEAR1DAY	8.22	9.15	0.0015	239580	118.10	26.86
B01-PINE RIDGE	025YEAR3DAY	10.10	9.15	0.0004	315863	177.07	73.05
B01-PINE RIDGE	100YEAR3DAY	10.76	9.15	0.0004	805407	212.99	96.86
B02-THE CHARTER	010YEAR1DAY	8.26	8.89	0.0012	171534	52.41	4.83
B02-THE CHARTER	025YEAR3DAY	10.23	8.89	0.0004	220151	100.68	14.26
B02-THE CHARTER	100YEAR3DAY	10.90	8.89	0.0004	315280	124.94	16.83
B03-MONARCH CNT	010YEAR1DAY	8.93	12.00	0.0014	576801	242.75	18.66
B03-MONARCH CNT	025YEAR3DAY	10.70	12.00	0.0003	633146	326.66	36.08
B03-MONARCH CNT	100YEAR3DAY	11.21	12.00	0.0003	1057175	388.27	57.30
B04-GARDENS 1	010YEAR1DAY	12.92	14.15	0.0020	131645	67.86	3.73
B04-GARDENS 1	025YEAR3DAY	14.26	14.15	0.0006	299880	97.60	4.57
B04-GARDENS 1	100YEAR3DAY	14.49	14.15	0.0004	347233	116.95	9.38
B05-GARDENS 2	010YEAR1DAY	14.18	14.71	-0.0049	52750	11.90	0.42
B05-GARDENS 2	025YEAR3DAY	14.82	14.71	-0.0049	86419	18.17	0.50
B05-GARDENS 2	100YEAR3DAY	14.90	14.71	-0.0048	90779	21.91	1.93
B06-GARDENS 3	010YEAR1DAY	14.25	14.71	0.0046	77810	17.07	6.56
B06-GARDENS 3	025YEAR3DAY	14.46	14.71	-0.0027	96992	25.80	15.34
B06-GARDENS 3	100YEAR3DAY	14.54	14.71	-0.0023	104745	31.09	18.26
B07-THE VILLAS	010YEAR1DAY	14.76	15.40	0.0022	57824	23.15	1.52
B07-THE VILLAS	025YEAR3DAY	15.54	15.40	0.0007	120451	33.39	1.97
B07-THE VILLAS	100YEAR3DAY	15.73	15.40	0.0003	135999	40.04	3.49
B08-PALM TN SQR	010YEAR1DAY	16.29	17.17	0.0031	76455	31.40	0.46
B08-PALM TN SQR	025YEAR3DAY	17.23	17.17	-0.0042	138762	46.55	1.66
B08-PALM TN SQR	100YEAR3DAY	17.37	17.17	0.0004	165512	55.88	5.52
B09-REGENCY PLM	010YEAR1DAY	15.30	16.92	0.0020	64725	33.67	6.65
B09-REGENCY PLM	025YEAR3DAY	16.04	16.92	0.0006	71781	46.79	8.88
B09-REGENCY PLM	100YEAR3DAY	16.38	16.92	0.0004	75112	55.77	9.53
B10-DANFORTH RS	010YEAR1DAY	13.70	14.40	0.0001	0	0.00	0.81
B10-DANFORTH RS	025YEAR3DAY	14.40	14.40	-0.0001	0	0.00	3.67
B10-DANFORTH RS	100YEAR3DAY	15.00	14.40	0.0001	0	0.00	6.36
B11-PRESBYTERN	010YEAR1DAY	17.65	18.00	0.0012	161380	34.49	1.88
B11-PRESBYTERN	025YEAR3DAY	18.02	18.00	0.0003	202927	45.33	10.00
B11-PRESBYTERN	100YEAR3DAY	18.05	18.00	0.0002	208225	53.75	29.76
B12-HAMMOCK CRK	010YEAR1DAY	16.86	17.70	0.0016	1435738	458.56	25.62
B12-HAMMOCK CRK	025YEAR3DAY	17.66	17.70	0.0004	4420163	610.33	28.93
B12-HAMMOCK CRK	100YEAR3DAY	17.89	17.70	0.0003	5407611	724.68	30.57
B13-PLM C B PRK	010YEAR1DAY	17.55	17.75	0.0013	283109	11.49	1.59
B13-PLM C B PRK	025YEAR3DAY	18.23	17.75	-0.0046	369030	18.58	3.19
B13-PLM C B PRK	100YEAR3DAY	18.54	17.75	0.0001	407920	22.57	4.62
B14-HUMAN SC	010YEAR1DAY	18.49	17.85	0.0022	140794	29.66	6.04
B14-HUMAN SC	025YEAR3DAY	19.50	17.85	0.0005	203358	39.37	9.16
B14-HUMAN SC	100YEAR3DAY	19.81	17.85	0.0003	222762	46.73	9.28
B15-OAKBROOK ES	010YEAR1DAY	24.12	25.00	0.0003	7507265	426.70	16.96
B15-OAKBROOK ES	025YEAR3DAY	24.51	25.00	0.0000	9308089	546.24	27.55
B15-OAKBROOK ES	100YEAR3DAY	24.68	25.00	0.0000	10097621	647.53	32.39
B16-IMMAN LUTH	010YEAR1DAY	6.34	7.15	-0.0037	23141	9.45	0.84
B16-IMMAN LUTH	025YEAR3DAY	7.17	7.15	-0.0027	27301	17.28	5.51
B16-IMMAN LUTH	100YEAR3DAY	7.43	7.15	-0.0029	28429	21.33	9.04
B17-MAPLEWOOD	010YEAR1DAY	6.24	6.00	0.0020	59144	22.41	5.68
B17-MAPLEWOOD	025YEAR3DAY	6.88	6.00	0.0005	110280	47.71	19.63
B17-MAPLEWOOD	100YEAR3DAY	7.08	6.00	0.0003	126255	60.10	23.02
B18-34ST POND	010YEAR1DAY	8.05	9.50	0.0008	496862	51.84	14.16
B18-34ST POND	025YEAR3DAY	8.89	9.50	0.0001	795834	101.53	25.06
B18-34ST POND	100YEAR3DAY	9.22	9.50	0.0001	878078	126.51	29.49
B19-COR DITCH	010YEAR1DAY	7.61	7.00	0.0013	50895	20.30	17.36
B19-COR DITCH	025YEAR3DAY	8.26	7.00	0.0002	61519	37.89	33.01
B19-COR DITCH	100YEAR3DAY	8.51	7.00	0.0002	65633	47.14	39.74
D-00 RIVER TW	010YEAR1DAY	2.00	2.00	0.0000	56932	750.45	0.00
D-00 RIVER TW	025YEAR3DAY	4.00	2.00	0.0001	117070	1209.22	0.00
D-00 RIVER TW	100YEAR3DAY	4.00	2.00	0.0001	117675	1384.61	0.00
D00-MAPP RD DN	010YEAR1DAY	5.46	5.00	0.0050	104807	750.66	750.45
D00-MAPP RD DN	025YEAR3DAY	6.39	5.00	-0.0036	123919	1210.00	1209.22
D00-MAPP RD DN	100YEAR3DAY	6.66	5.00	0.0037	126704	1385.44	1384.61
D00-MAPP RD UP	010YEAR1DAY	5.50	5.00	-0.0050	73357	746.86	746.52
D00-MAPP RD UP	025YEAR3DAY	6.46	5.00	0.0050	253377	1206.02	1199.67
D00-MAPP RD UP	100YEAR3DAY	6.75	5.00	-0.0050	305244	1381.22	1371.69
D01-MARTIN DN	010YEAR1DAY	5.64	7.50	0.0018	143431	737.83	736.64
D01-MARTIN DN	025YEAR3DAY	6.62	7.50	0.0005	163599	1175.37	1169.90
D01-MARTIN DN	100YEAR3DAY	6.91	7.50	0.0005	168956	1339.62	1332.85
D02-PINE RIDGE	010YEAR1DAY	7.98	10.00	0.0031	136707	714.70	712.94
D02-PINE RIDGE	025YEAR3DAY	9.36	10.00	-0.0013	156704	1125.43	1118.06

DANFORTH CREEK WATER WUALITY RETROFIT
CAPTEC PROJECT NO. 1207.26
POST DEVELOPMENT ICPR MODEL
NODE MAXIMUM REPORT

Name	Simulation	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Inflow cfs	Max Outflow cfs
D02-PINE RIDGE	100YEAR3DAY	9.80	10.00	-0.0013	163032	1276.65	1267.41
D03-SUNSET-DN	010YEAR1DAY	9.06	13.24	0.0036	41228	716.16	715.49
D03-SUNSET-DN	025YEAR3DAY	10.41	13.24	-0.0019	47367	1037.66	1034.44
D03-SUNSET-DN	100YEAR3DAY	10.83	13.24	-0.0019	49428	1153.05	1149.72
D04-SUNSET-UP	010YEAR1DAY	10.07	13.24	0.0043	40695	717.06	716.16
D04-SUNSET-UP	025YEAR3DAY	11.88	13.24	-0.0040	47681	1041.71	1037.66
D04-SUNSET-UP	100YEAR3DAY	12.48	13.24	-0.0040	49671	1157.71	1153.05
D05-GARDENS 1	010YEAR1DAY	11.10	15.00	0.0034	57022	644.39	644.81
D05-GARDENS 1	025YEAR3DAY	12.60	15.00	0.0011	66270	838.99	838.94
D05-GARDENS 1	100YEAR3DAY	13.12	15.00	0.0011	69311	909.85	910.60
D06-VILLAS-OUT	010YEAR1DAY	11.71	15.00	0.0034	39924	639.51	639.69
D06-VILLAS-OUT	025YEAR3DAY	13.06	15.00	0.0015	45464	826.49	823.26
D06-VILLAS-OUT	100YEAR3DAY	13.52	15.00	0.0015	47388	895.53	889.74
D07-MARN HY-DN	010YEAR1DAY	12.22	18.20	0.0035	21961	629.64	629.73
D07-MARN HY-DN	025YEAR3DAY	13.39	18.20	0.0018	24549	777.68	777.74
D07-MARN HY-DN	100YEAR3DAY	13.82	18.20	0.0018	25486	847.70	847.73
D08-MARTN HY-UP	010YEAR1DAY	12.94	18.20	0.0040	19809	629.13	629.19
D08-MARTN HY-UP	025YEAR3DAY	14.08	18.20	0.0012	22096	776.11	776.15
D08-MARTN HY-UP	100YEAR3DAY	14.50	18.20	0.0012	22943	845.74	845.76
D09-BARRY AV DN	010YEAR1DAY	13.38	16.10	0.0041	13153	624.48	624.52
D09-BARRY AV DN	025YEAR3DAY	14.35	16.10	0.0017	13953	767.15	767.18
D09-BARRY AV DN	100YEAR3DAY	14.72	16.10	0.0017	14370	833.92	833.98
D10-BERRY AV UP	010YEAR1DAY	13.95	16.10	0.0045	38665	624.39	624.48
D10-BERRY AV UP	025YEAR3DAY	14.90	16.10	0.0009	40963	767.10	767.15
D10-BERRY AV UP	100YEAR3DAY	15.36	16.10	0.0009	42250	833.76	833.92
D11-CHURCH-OUT	010YEAR1DAY	15.10	16.00	0.0042	62153	619.45	619.58
D11-CHURCH-OUT	025YEAR3DAY	15.95	16.00	0.0020	65297	762.02	762.08
D11-CHURCH-OUT	100YEAR3DAY	16.35	16.00	0.0020	476300	828.27	828.38
D12-30TH AVE	010YEAR1DAY	16.05	15.00	0.0046	118659	608.94	609.09
D12-30TH AVE	025YEAR3DAY	16.85	15.00	0.0028	641165	749.62	749.39
D12-30TH AVE	100YEAR3DAY	17.20	15.00	0.0028	872902	815.61	814.18
D13-HIGH MEA-DN	010YEAR1DAY	16.48	17.00	0.0049	238958	593.68	593.63
D13-HIGH MEA-DN	025YEAR3DAY	17.26	17.00	0.0034	572617	734.18	732.62
D13-HIGH MEA-DN	100YEAR3DAY	17.61	17.00	0.0034	718019	797.63	794.90
D14-HIGH MEA-UP	010YEAR1DAY	16.71	17.00	0.0050	749581	595.37	590.30
D14-HIGH MEA-UP	025YEAR3DAY	17.42	17.00	0.0017	1443289	738.69	729.99
D14-HIGH MEA-UP	100YEAR3DAY	17.70	17.00	0.0017	1713816	807.40	792.68
D15-TURNPIKE-DN	010YEAR1DAY	17.54	19.26	0.0040	1058473	614.36	590.28
D15-TURNPIKE-DN	025YEAR3DAY	18.29	19.26	0.0017	1539802	755.98	731.81
D15-TURNPIKE-DN	100YEAR3DAY	18.58	19.26	0.0017	1729346	829.92	799.19
D16-TURNPIKE-UP	010YEAR1DAY	17.84	19.26	0.0097	17608	589.52	589.13
D16-TURNPIKE-UP	025YEAR3DAY	18.67	19.26	0.0097	18685	728.32	728.08
D16-TURNPIKE-UP	100YEAR3DAY	19.01	19.26	0.0097	17605	799.69	799.44
D17-LEIGHTON-DN	010YEAR1DAY	18.06	19.15	0.0040	12947	541.94	541.87
D17-LEIGHTON-DN	025YEAR3DAY	18.88	19.15	0.0018	13306	678.32	678.34
D17-LEIGHTON-DN	100YEAR3DAY	19.21	19.15	0.0018	13308	745.29	745.30
D18-LEIGHTON-UP	010YEAR1DAY	18.48	19.15	0.0040	1073828	586.31	541.94
D18-LEIGHTON-UP	025YEAR3DAY	19.50	19.15	0.0018	1766995	735.79	678.32
D18-LEIGHTON-UP	100YEAR3DAY	19.81	19.15	0.0018	1981642	797.00	745.29
D19-MID-4.58	010YEAR1DAY	19.31	19.00	0.0039	38945	536.88	535.78
D19-MID-4.58	025YEAR3DAY	20.21	19.00	0.0004	44626	645.04	643.63
D19-MID-4.58	100YEAR3DAY	20.53	19.00	-0.0004	46811	696.02	695.70
D19-STA	010YEAR1DAY	19.41	19.00	0.0020	1354942	669.32	536.88
D19-STA	025YEAR3DAY	20.32	19.00	-0.0004	3317517	925.06	645.04
D19-STA	100YEAR3DAY	20.65	19.00	-0.0004	4027640	1057.28	696.02
D20-42ND AVE-DN	010YEAR1DAY	19.80	19.61	0.0026	17096	462.94	457.43
D20-42ND AVE-DN	025YEAR3DAY	20.62	19.61	-0.0021	18562	562.76	561.36
D20-42ND AVE-DN	100YEAR3DAY	20.93	19.61	-0.0021	18851	611.06	609.55
D21-42ND AVE-UP	010YEAR1DAY	20.03	19.61	-0.0052	31270	473.17	462.94
D21-42ND AVE-UP	025YEAR3DAY	20.74	19.61	-0.0052	33394	564.79	562.76
D21-42ND AVE-UP	100YEAR3DAY	21.04	19.61	-0.0052	34309	613.47	611.06
D22-MID-4.99	010YEAR1DAY	21.00	18.00	0.0030	76051	485.37	473.17
D22-MID-4.99	025YEAR3DAY	21.67	18.00	-0.0007	76751	567.98	564.79
D22-MID-4.99	100YEAR3DAY	21.95	18.00	-0.0006	77047	617.32	613.47
D23-SR76A-DN	010YEAR1DAY	21.35	22.77	0.0027	30708	328.60	329.02
D23-SR76A-DN	025YEAR3DAY	21.93	22.77	-0.0008	30563	408.45	408.98
D23-SR76A-DN	100YEAR3DAY	22.20	22.77	-0.0009	30563	459.02	459.33
D24-SR76A-UP	010YEAR1DAY	21.70	22.77	0.0030	3472937	457.68	328.60
D24-SR76A-UP	025YEAR3DAY	22.41	22.77	-0.0041	6834078	726.16	408.45
D24-SR76A-UP	100YEAR3DAY	22.78	22.77	-0.0048	8620832	871.68	459.02

DANFORTH CREEK WATER WUALITY RETROFIT
CAPTEC PROJECT NO. 1207.26
POST DEVELOPMENT ICPR MODEL
NODE MAXIMUM REPORT

Name	Simulation	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Inflow cfs	Max Outflow cfs
D25-MID5.435-DN	010YEAR1DAY	21.72	22.30	0.0030	12053	122.55	125.49
D25-MID5.435-DN	025YEAR3DAY	22.44	22.30	-0.0013	12053	151.80	176.56
D25-MID5.435-DN	100YEAR3DAY	22.87	22.30	-0.0015	12053	224.41	224.63
D26-MID5.435-UP	010YEAR1DAY	21.87	22.30	0.0030	4711	122.49	122.55
D26-MID5.435-UP	025YEAR3DAY	22.51	22.30	-0.0012	4711	152.38	151.80
D26-MID5.435-UP	100YEAR3DAY	22.91	22.30	-0.0011	4711	225.37	224.41
D27-MID5.47-DN	010YEAR1DAY	21.88	22.80	0.0029	4711	122.84	122.49
D27-MID5.47-DN	025YEAR3DAY	22.53	22.80	-0.0012	4711	145.30	152.38
D27-MID5.47-DN	100YEAR3DAY	22.98	22.80	-0.0012	4711	206.65	225.37
D28-MID5.47-UP	010YEAR1DAY	22.11	22.80	-0.0076	2562	193.00	122.84
D28-MID5.47-UP	025YEAR3DAY	22.90	22.80	-0.0077	2562	459.96	145.30
D28-MID5.47-UP	100YEAR3DAY	23.07	22.80	-0.0077	2562	545.74	206.65
D29-MID5.558-DN	010YEAR1DAY	22.10	22.80	0.0076	2563	122.90	193.00
D29-MID5.558-DN	025YEAR3DAY	22.96	22.80	0.0077	2563	147.50	459.96
D29-MID5.558-DN	100YEAR3DAY	23.14	22.80	0.0078	2563	187.63	545.74
D30-MID5.558-UP	010YEAR1DAY	22.44	22.80	0.0026	14255	122.29	122.90
D30-MID5.558-UP	025YEAR3DAY	23.02	22.80	-0.0015	14255	151.80	147.50
D30-MID5.558-UP	100YEAR3DAY	23.17	22.80	-0.0015	14255	224.90	187.63
D31-MID5.585-DN	010YEAR1DAY	22.46	23.50	0.0024	14285	122.18	122.29
D31-MID5.585-DN	025YEAR3DAY	23.06	23.50	-0.0014	14256	151.73	151.80
D31-MID5.585-DN	100YEAR3DAY	23.25	23.50	-0.0014	14256	224.39	224.90
D32-MID5.585-UP	010YEAR1DAY	22.77	23.50	0.0029	21066	122.05	122.18
D32-MID5.585-UP	025YEAR3DAY	23.57	23.50	-0.0017	21056	151.73	151.73
D32-MID5.585-UP	100YEAR3DAY	23.70	23.50	-0.0016	21056	224.38	224.39
D33-MID-OUTFALL	010YEAR1DAY	22.83	21.00	-0.0033	6854131	451.40	122.05
D33-MID-OUTFALL	025YEAR3DAY	23.63	21.00	-0.0031	9773407	727.44	151.73
D33-MID-OUTFALL	100YEAR3DAY	23.82	21.00	-0.0028	10484464	875.81	224.38
D34-MID6.216-Dn	010YEAR1DAY	22.87	22.90	0.0026	20739	86.76	85.04
D34-MID6.216-Dn	025YEAR3DAY	23.67	22.90	-0.0017	20739	182.86	182.12
D34-MID6.216-Dn	100YEAR3DAY	23.89	22.90	-0.0017	20739	222.17	221.31
D35-MID6.216-UP	010YEAR1DAY	22.99	22.90	0.0026	10826	87.72	86.76
D35-MID6.216-UP	025YEAR3DAY	23.68	22.90	0.0017	10826	183.23	182.86
D35-MID6.216-UP	100YEAR3DAY	23.90	22.90	0.0017	10826	222.62	222.17
D36-MID6.30-DN	010YEAR1DAY	23.01	22.80	0.0026	10826	88.72	87.72
D36-MID6.30-DN	025YEAR3DAY	23.72	22.80	-0.0043	10826	183.58	183.23
D36-MID6.30-DN	100YEAR3DAY	23.95	22.80	-0.0043	10826	223.03	222.62
D37-MID6.30-UP	010YEAR1DAY	23.03	22.80	0.0026	8325	88.89	88.72
D37-MID6.30-UP	025YEAR3DAY	23.73	22.80	0.0028	8325	183.84	183.58
D37-MID6.30-UP	100YEAR3DAY	23.96	22.80	0.0028	8325	223.35	223.03
D38-MID6.312-DN	010YEAR1DAY	23.05	23.70	0.0025	79333	97.38	88.89
D38-MID6.312-DN	025YEAR3DAY	23.75	23.70	-0.0013	782804	205.77	183.84
D38-MID6.312-DN	100YEAR3DAY	24.00	23.70	-0.0012	1022593	266.81	223.35
D39-MID6.312-UP	010YEAR1DAY	23.72	23.70	0.0020	3043663	127.81	53.33
D39-MID6.312-UP	025YEAR3DAY	23.91	23.70	-0.0013	3836707	236.62	145.71
D39-MID6.312-UP	100YEAR3DAY	24.01	23.70	-0.0012	4257337	291.29	190.45

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34 ST POND	010YEAR1DAY	14.16	-0.157	8.05	7.61
34 ST POND	025YEAR3DAY	25.06	0.119	8.89	8.26
34 ST POND	100YEAR3DAY	29.49	-0.140	9.22	8.51
C00-MAPP-ST LUC	010YEAR1DAY	750.45	4.242	5.46	2.00
C00-MAPP-ST LUC	025YEAR3DAY	1209.22	4.409	6.39	4.00
C00-MAPP-ST LUC	100YEAR3DAY	1384.61	4.409	6.66	4.00
C00-MARTIN-MAPP	010YEAR1DAY	736.64	-13.612	5.64	5.50
C00-MARTIN-MAPP	025YEAR3DAY	1169.90	-8.053	6.62	6.46
C00-MARTIN-MAPP	100YEAR3DAY	1332.85	7.885	6.91	6.75
C01-PINE-MARTIN	010YEAR1DAY	712.94	47.663	7.98	5.64
C01-PINE-MARTIN	025YEAR3DAY	1118.06	47.663	9.36	6.62
C01-PINE-MARTIN	100YEAR3DAY	1267.41	47.663	9.80	6.91
C02-SUNSET-PINE	010YEAR1DAY	715.49	63.434	9.06	7.98
C02-SUNSET-PINE	025YEAR3DAY	1034.44	63.434	10.41	9.36
C02-SUNSET-PINE	100YEAR3DAY	1149.72	63.434	10.83	9.80
C03-GARDENS-SUN	010YEAR1DAY	644.81	0.391	11.10	10.07
C03-GARDENS-SUN	025YEAR3DAY	838.94	0.103	12.60	11.88
C03-GARDENS-SUN	100YEAR3DAY	910.60	0.076	13.12	12.48
C04-VILLAS-GARD	010YEAR1DAY	639.69	0.401	11.71	11.10
C04-VILLAS-GARD	025YEAR3DAY	823.26	0.125	13.06	12.60
C04-VILLAS-GARD	100YEAR3DAY	889.74	0.082	13.52	13.12
C05-MARTIN-VILL	010YEAR1DAY	629.73	0.418	12.22	11.71
C05-MARTIN-VILL	025YEAR3DAY	777.74	0.069	13.39	13.06
C05-MARTIN-VILL	100YEAR3DAY	847.73	-0.055	13.82	13.52
C06-BARRY-MARTI	010YEAR1DAY	624.52	0.438	13.38	12.94
C06-BARRY-MARTI	025YEAR3DAY	767.18	-0.083	14.35	14.08
C06-BARRY-MARTI	100YEAR3DAY	833.98	-0.089	14.72	14.50
C07-CHURCH-BARR	010YEAR1DAY	619.58	-1.727	15.10	13.95
C07-CHURCH-BARR	025YEAR3DAY	762.08	-1.714	15.95	14.90
C07-CHURCH-BARR	100YEAR3DAY	828.38	-1.699	16.35	15.36
C08-30TH-CHURCH	010YEAR1DAY	609.09	0.406	16.05	15.10
C08-30TH-CHURCH	025YEAR3DAY	749.39	0.086	16.85	15.95
C08-30TH-CHURCH	100YEAR3DAY	814.18	-0.079	17.20	16.35
C09-H MEAD-30TH	010YEAR1DAY	593.63	0.354	16.48	16.05
C09-H MEAD-30TH	025YEAR3DAY	732.62	-0.166	17.26	16.85
C09-H MEAD-30TH	100YEAR3DAY	794.90	-0.161	17.61	17.20
C10-TURNPK-H ME	010YEAR1DAY	590.28	0.458	17.54	16.71
C10-TURNPK-H ME	025YEAR3DAY	731.81	0.458	18.29	17.42
C10-TURNPK-H ME	100YEAR3DAY	799.19	0.458	18.58	17.70
C11-LEIGH-TURNP	010YEAR1DAY	541.87	-0.293	18.06	17.84
C11-LEIGH-TURNP	025YEAR3DAY	678.34	0.561	18.88	18.67
C11-LEIGH-TURNP	100YEAR3DAY	745.30	0.581	19.21	19.01
C12-MID4.58-LEI	010YEAR1DAY	535.78	-0.973	19.31	18.48
C12-MID4.58-LEI	025YEAR3DAY	643.63	0.866	20.21	19.50
C12-MID4.58-LEI	100YEAR3DAY	695.70	0.925	20.53	19.81
C13-42ND-MID4.5	010YEAR1DAY	457.43	30.704	19.80	19.41
C13-42ND-MID4.5	025YEAR3DAY	561.36	30.704	20.62	20.32
C13-42ND-MID4.5	100YEAR3DAY	609.55	30.704	20.93	20.65
C14-MID4.99-42N	010YEAR1DAY	473.17	0.290	21.00	20.03
C14-MID4.99-42N	025YEAR3DAY	564.79	-0.074	21.67	20.74
C14-MID4.99-42N	100YEAR3DAY	613.47	-0.087	21.95	21.04
C15-SR76A-MID4.	010YEAR1DAY	329.02	0.187	21.35	21.00
C15-SR76A-MID4.	025YEAR3DAY	408.98	-0.202	21.93	21.67
C15-SR76A-MID4.	100YEAR3DAY	459.33	-0.232	22.20	21.95
C16-MID5.43-5.2	010YEAR1DAY	125.49	1.392	21.72	21.70
C16-MID5.43-5.2	025YEAR3DAY	176.56	2.098	22.44	22.41
C16-MID5.43-5.2	100YEAR3DAY	224.63	2.417	22.87	22.78
C17-MID5.47-5.4	010YEAR1DAY	122.49	-0.142	21.88	21.87
C17-MID5.47-5.4	025YEAR3DAY	152.38	-0.083	22.53	22.51
C17-MID5.47-5.4	100YEAR3DAY	225.37	-0.082	22.98	22.91
C18-MID5.55-5.4	010YEAR1DAY	193.00	199.318	22.10	22.11
C18-MID5.55-5.4	025YEAR3DAY	459.96	205.538	22.96	22.90
C18-MID5.55-5.4	100YEAR3DAY	545.74	203.613	23.14	23.07
C19-MID5.58-5.5	010YEAR1DAY	122.29	0.089	22.46	22.44
C19-MID5.58-5.5	025YEAR3DAY	151.80	-0.071	23.06	23.02
C19-MID5.58-5.5	100YEAR3DAY	224.90	-0.066	23.25	23.17
C20-MID-OUTFALL	010YEAR1DAY	122.05	1.499	22.83	22.77
C20-MID-OUTFALL	025YEAR3DAY	151.73	-0.655	23.63	23.57
C20-MID-OUTFALL	100YEAR3DAY	224.38	-0.552	23.82	23.70
C21-MID6.21-M	010YEAR1DAY	85.04	2.407	22.87	22.83
C21-MID6.21-M	025YEAR3DAY	182.12	0.731	23.67	23.63

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C21-MID6.21-M	100YEAR3DAY	221.31	-0.703	23.89	23.82
C22-MID6.30-6.2	010YEAR1DAY	87.72	0.331	23.01	22.99
C22-MID6.30-6.2	025YEAR3DAY	183.23	0.076	23.72	23.68
C22-MID6.30-6.2	100YEAR3DAY	222.62	0.070	23.95	23.90
C23-MID6.312-6.	010YEAR1DAY	88.89	0.144	23.05	23.03
C23-MID6.312-6.	025YEAR3DAY	183.84	0.048	23.75	23.73
C23-MID6.312-6.	100YEAR3DAY	223.35	0.043	24.00	23.96
CHARTER CL 1	010YEAR1DAY	4.44	0.006	8.26	8.22
CHARTER CL 1	025YEAR3DAY	13.78	0.006	10.23	10.10
CHARTER CL 1	100YEAR3DAY	16.32	0.008	10.90	10.76
CHARTER CL 2	010YEAR1DAY	1.11	0.004	8.26	8.22
CHARTER CL 2	025YEAR3DAY	1.10	0.010	10.23	10.10
CHARTER CL 2	100YEAR3DAY	1.09	0.012	10.90	10.76
CORRINE DITCH	010YEAR1DAY	17.36	0.021	7.61	5.86
CORRINE DITCH	025YEAR3DAY	33.01	0.005	8.26	6.62
CORRINE DITCH	100YEAR3DAY	39.74	0.004	8.51	6.91
D19-STA-Weir	010YEAR1DAY	536.88	-0.161	19.41	19.31
D19-STA-Weir	025YEAR3DAY	645.04	0.055	20.32	20.21
D19-STA-Weir	100YEAR3DAY	696.02	0.044	20.65	20.53
DAN-01	010YEAR1DAY	716.16	6.454	10.07	9.06
DAN-01	025YEAR3DAY	1037.66	6.454	11.88	10.41
DAN-01	100YEAR3DAY	1153.05	6.454	12.48	10.83
DAN-01-SUNSET	010YEAR1DAY	0.00	0.000	10.07	9.06
DAN-01-SUNSET	025YEAR3DAY	0.00	0.000	11.88	10.41
DAN-01-SUNSET	100YEAR3DAY	0.00	0.000	12.48	10.83
DAN-02	010YEAR1DAY	629.19	0.428	12.94	12.22
DAN-02	025YEAR3DAY	776.15	0.081	14.08	13.39
DAN-02	100YEAR3DAY	845.76	-0.056	14.50	13.82
DAN-02-MART HWY	010YEAR1DAY	0.00	0.000	12.94	12.22
DAN-02-MART HWY	025YEAR3DAY	0.00	0.000	14.08	13.39
DAN-02-MART HWY	100YEAR3DAY	0.00	0.000	14.50	13.82
DAN-03	010YEAR1DAY	624.48	0.441	13.95	13.38
DAN-03	025YEAR3DAY	767.15	-2.920	14.90	14.35
DAN-03	100YEAR3DAY	833.92	-3.224	15.36	14.72
DAN-03-BERRY AV	010YEAR1DAY	0.00	0.000	13.95	13.38
DAN-03-BERRY AV	025YEAR3DAY	0.00	0.000	14.90	14.35
DAN-03-BERRY AV	100YEAR3DAY	0.00	0.000	15.36	14.72
DAN-04	010YEAR1DAY	590.30	-4.575	16.71	16.48
DAN-04	025YEAR3DAY	623.17	4.295	17.42	17.26
DAN-04	100YEAR3DAY	621.08	4.162	17.70	17.61
DAN-04-HIGH MEA	010YEAR1DAY	0.00	0.000	16.71	16.48
DAN-04-HIGH MEA	025YEAR3DAY	232.37	0.013	17.42	17.26
DAN-04-HIGH MEA	100YEAR3DAY	401.43	0.026	17.70	17.61
DAN-05	010YEAR1DAY	589.13	0.293	17.84	17.54
DAN-05	025YEAR3DAY	728.08	0.660	18.67	18.29
DAN-05	100YEAR3DAY	799.44	-8.273	19.01	18.58
DAN-05-TURNPIKE	010YEAR1DAY	0.00	0.000	17.84	17.54
DAN-05-TURNPIKE	025YEAR3DAY	0.00	0.000	18.67	18.29
DAN-05-TURNPIKE	100YEAR3DAY	0.00	0.000	19.01	18.58
DAN-06	010YEAR1DAY	541.94	2.309	18.48	18.06
DAN-06	025YEAR3DAY	654.05	1.930	19.50	18.88
DAN-06	100YEAR3DAY	643.37	-2.044	19.81	19.21
DAN-06-LEIGHTON	010YEAR1DAY	0.00	0.000	18.48	18.06
DAN-06-LEIGHTON	025YEAR3DAY	24.39	0.002	19.50	18.88
DAN-06-LEIGHTON	100YEAR3DAY	101.95	0.007	19.81	19.21
DAN-07	010YEAR1DAY	462.94	-8.561	20.03	19.80
DAN-07	025YEAR3DAY	462.65	-8.561	20.74	20.62
DAN-07	100YEAR3DAY	455.07	-8.561	21.04	20.93
DAN-07-42ND AVE	010YEAR1DAY	30.67	0.007	20.03	19.80
DAN-07-42ND AVE	025YEAR3DAY	200.39	0.034	20.74	20.62
DAN-07-42ND AVE	100YEAR3DAY	248.92	0.035	21.04	20.93
DAN-08	010YEAR1DAY	328.60	1.009	21.70	21.35
DAN-08	025YEAR3DAY	408.45	1.971	22.41	21.93
DAN-08	100YEAR3DAY	459.02	1.972	22.78	22.20
DAN-08-SR76A	010YEAR1DAY	0.00	0.000	21.70	21.35
DAN-08-SR76A	025YEAR3DAY	0.00	0.000	22.41	21.93
DAN-08-SR76A	100YEAR3DAY	2.06	-0.000	22.78	22.20
DAN-09	010YEAR1DAY	122.55	0.095	21.87	21.72
DAN-09	025YEAR3DAY	151.09	0.082	22.51	22.44
DAN-09	100YEAR3DAY	152.68	0.093	22.91	22.87

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DAN-10	010YEAR1DAY	122.84	-1.155	22.11	21.88
DAN-10	025YEAR3DAY	145.30	1.120	22.90	22.53
DAN-10	100YEAR3DAY	146.13	1.193	23.07	22.98
DAN-10 OVER	010YEAR1DAY	0.00	0.000	22.11	21.88
DAN-10 OVER	025YEAR3DAY	36.29	-0.003	22.90	22.53
DAN-10 OVER	100YEAR3DAY	152.60	0.005	23.07	22.98
DAN-12	010YEAR1DAY	122.90	-0.955	22.44	22.10
DAN-12	025YEAR3DAY	139.49	0.988	23.02	22.96
DAN-12	100YEAR3DAY	139.28	1.053	23.17	23.14
DAN-12 OVER	010YEAR1DAY	0.00	0.000	22.44	22.10
DAN-12 OVER	025YEAR3DAY	109.44	-0.033	23.02	22.96
DAN-12 OVER	100YEAR3DAY	157.57	-0.038	23.17	23.14
DAN-13	010YEAR1DAY	122.18	-0.115	22.77	22.46
DAN-13	025YEAR3DAY	143.74	-0.108	23.57	23.06
DAN-13	100YEAR3DAY	144.00	-0.099	23.70	23.25
DAN-13 OVER	010YEAR1DAY	0.00	0.000	22.77	22.46
DAN-13 OVER	025YEAR3DAY	18.62	0.001	23.57	23.06
DAN-13 OVER	100YEAR3DAY	98.75	0.005	23.70	23.25
DAN-14	010YEAR1DAY	86.76	-3.926	22.99	22.87
DAN-14	025YEAR3DAY	108.77	6.327	23.68	23.67
DAN-14	100YEAR3DAY	104.94	6.338	23.90	23.89
DAN-14 OVER	010YEAR1DAY	29.76	-0.002	22.99	22.87
DAN-14 OVER	025YEAR3DAY	162.33	0.013	23.68	23.67
DAN-14 OVER	100YEAR3DAY	201.88	0.017	23.90	23.89
DAN-15	010YEAR1DAY	85.08	-3.335	23.03	23.01
DAN-15	025YEAR3DAY	82.41	-6.283	23.73	23.72
DAN-15	100YEAR3DAY	77.79	-6.205	23.96	23.95
DAN-15 OVER	010YEAR1DAY	63.83	-0.024	23.03	23.01
DAN-15 OVER	025YEAR3DAY	165.53	0.036	23.73	23.72
DAN-15 OVER	100YEAR3DAY	204.67	0.040	23.96	23.95
DAN-16	010YEAR1DAY	49.58	-0.050	23.72	23.05
DAN-16	025YEAR3DAY	45.05	0.022	23.91	23.75
DAN-16	100YEAR3DAY	44.82	0.021	24.01	24.00
DAN-16 OVER	010YEAR1DAY	3.88	-0.001	23.72	23.05
DAN-16 OVER	025YEAR3DAY	113.03	0.012	23.91	23.75
DAN-16 OVER	100YEAR3DAY	172.12	0.017	24.01	24.00
DAN-9 OVER	010YEAR1DAY	0.00	0.000	21.87	21.72
DAN-9 OVER	025YEAR3DAY	70.18	0.004	22.51	22.44
DAN-9 OVER	100YEAR3DAY	185.88	0.010	22.91	22.87
DANFORTH CK	010YEAR1DAY	0.81	0.000	13.70	12.94
DANFORTH CK	025YEAR3DAY	3.67	-0.001	14.40	14.08
DANFORTH CK	100YEAR3DAY	6.36	-0.001	15.00	14.50
GARDENS 1A	010YEAR1DAY	0.00	0.000	12.92	11.10
GARDENS 1A	025YEAR3DAY	0.07	0.000	14.26	12.60
GARDENS 1A	100YEAR3DAY	5.62	0.001	14.49	13.12
GARDENS 1B	010YEAR1DAY	3.73	0.006	12.92	11.10
GARDENS 1B	025YEAR3DAY	4.57	0.001	14.26	12.60
GARDENS 1B	100YEAR3DAY	4.46	0.000	14.49	13.12
GARDENS 2	010YEAR1DAY	0.42	-0.001	14.18	11.71
GARDENS 2	025YEAR3DAY	0.50	-0.001	14.82	13.06
GARDENS 2	100YEAR3DAY	1.93	-0.001	14.90	13.52
GARDENS 3	010YEAR1DAY	6.56	0.014	14.25	11.71
GARDENS 3	025YEAR3DAY	15.34	0.007	14.46	13.06
GARDENS 3	100YEAR3DAY	18.26	-0.007	14.54	13.52
HAMMOCK CK NRT	010YEAR1DAY	25.62	0.020	16.86	16.05
HAMMOCK CK NRT	025YEAR3DAY	28.93	0.002	17.66	16.85
HAMMOCK CK NRT	100YEAR3DAY	30.57	0.002	17.89	17.20
HAMMOCK CK OVR	010YEAR1DAY	0.00	0.000	16.86	16.05
HAMMOCK CK OVR	025YEAR3DAY	0.00	0.000	17.66	16.85
HAMMOCK CK OVR	100YEAR3DAY	2.35	0.000	17.89	17.20
HUMAN SC 1	010YEAR1DAY	3.99	0.004	18.49	18.48
HUMAN SC 1	025YEAR3DAY	4.64	-0.003	19.50	19.50
HUMAN SC 1	100YEAR3DAY	4.60	-0.002	19.81	19.81
HUMAN SC 2	010YEAR1DAY	0.34	-0.004	18.49	18.48
HUMAN SC 2	025YEAR3DAY	0.36	-0.003	19.50	19.50
HUMAN SC 2	100YEAR3DAY	0.36	-0.003	19.81	19.81
HUMAN SC 3	010YEAR1DAY	5.03	0.005	18.49	18.48
HUMAN SC 3	025YEAR3DAY	7.86	-0.014	19.50	19.50
HUMAN SC 3	100YEAR3DAY	7.16	-0.019	19.81	19.81
IMMAN LUTH	010YEAR1DAY	0.84	0.001	6.34	5.50
IMMAN LUTH	025YEAR3DAY	5.51	0.002	7.17	6.46

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Name	Simulation	Max Flow cfs	Max Delta Q cfs	Max US Stage ft	Max DS Stage ft
IMMAN LUTH	100YEAR3DAY	9.04	0.004	7.43	6.75
MAPLEWOOD-1	010YEAR1DAY	0.60	0.002	6.24	5.50
MAPLEWOOD-1	025YEAR3DAY	0.62	0.000	6.88	6.46
MAPLEWOOD-1	100YEAR3DAY	0.58	0.000	7.08	6.75
MAPLEWOOD-2	010YEAR1DAY	2.86	0.006	6.24	5.50
MAPLEWOOD-2	025YEAR3DAY	4.10	0.001	6.88	6.46
MAPLEWOOD-2	100YEAR3DAY	3.91	-0.168	7.08	6.75
MAPLEWOOD-3	010YEAR1DAY	2.23	0.005	6.24	5.50
MAPLEWOOD-3	025YEAR3DAY	15.39	0.008	6.88	6.46
MAPLEWOOD-3	100YEAR3DAY	18.97	0.006	7.08	6.75
MAPP ROAD BRIDG	010YEAR1DAY	627.70	307.450	5.50	5.46
MAPP ROAD BRIDG	025YEAR3DAY	668.47	433.864	6.46	6.39
MAPP ROAD BRIDG	100YEAR3DAY	669.61	367.920	6.75	6.66
MAPP ROAD OVER	010YEAR1DAY	131.66	-2.748	5.50	5.46
MAPP ROAD OVER	025YEAR3DAY	622.09	3.404	6.46	6.39
MAPP ROAD OVER	100YEAR3DAY	839.92	2.679	6.75	6.66
MONARCH 1	010YEAR1DAY	0.00	0.000	8.93	8.22
MONARCH 1	025YEAR3DAY	7.17	0.001	10.70	10.10
MONARCH 1	100YEAR3DAY	29.48	0.006	11.21	10.76
MONARCH 2	010YEAR1DAY	6.37	0.008	8.93	8.22
MONARCH 2	025YEAR3DAY	5.10	0.001	10.70	10.10
MONARCH 2	100YEAR3DAY	4.92	0.001	11.21	10.76
MONARCH 3	010YEAR1DAY	13.44	0.008	8.93	8.22
MONARCH 3	025YEAR3DAY	26.27	-0.003	10.70	10.10
MONARCH 3	100YEAR3DAY	25.02	0.003	11.21	10.76
OAKBROOK 1	010YEAR1DAY	2.73	-0.000	24.12	23.05
OAKBROOK 1	025YEAR3DAY	12.23	0.001	24.51	23.75
OAKBROOK 1	100YEAR3DAY	17.49	0.009	24.68	24.00
OAKBROOK 2	010YEAR1DAY	14.23	0.004	24.12	23.05
OAKBROOK 2	025YEAR3DAY	17.07	-0.001	24.51	23.75
OAKBROOK 2	100YEAR3DAY	17.97	0.001	24.68	24.00
Palm B. Park 1	010YEAR1DAY	0.00	0.000	17.55	17.54
Palm B. Park 1	025YEAR3DAY	2.29	0.001	18.23	18.29
Palm B. Park 1	100YEAR3DAY	3.87	0.002	18.54	18.58
Palm B. Park 2	010YEAR1DAY	1.23	-0.011	17.55	17.54
Palm B. Park 2	025YEAR3DAY	1.55	-0.017	18.23	18.29
Palm B. Park 2	100YEAR3DAY	1.58	-0.020	18.54	18.58
Palm B. Park 3	010YEAR1DAY	0.40	-0.002	17.55	17.54
Palm B. Park 3	025YEAR3DAY	0.43	-0.003	18.23	18.29
Palm B. Park 3	100YEAR3DAY	0.43	-0.003	18.54	18.58
PALM TN SQR	010YEAR1DAY	0.46	0.000	16.29	12.22
PALM TN SQR	025YEAR3DAY	1.66	-0.001	17.23	13.39
PALM TN SQR	100YEAR3DAY	5.52	0.001	17.37	13.82
PINE RIDGE 1	010YEAR1DAY	17.11	0.008	8.22	7.98
PINE RIDGE 1	025YEAR3DAY	61.91	0.011	10.10	9.36
PINE RIDGE 1	100YEAR3DAY	84.24	0.009	10.76	9.80
PINE RIDGE 2	010YEAR1DAY	14.51	0.090	8.22	7.98
PINE RIDGE 2	025YEAR3DAY	14.92	1.896	10.10	9.36
PINE RIDGE 2	100YEAR3DAY	14.68	1.180	10.76	9.80
PRESBYTERIAN 1	010YEAR1DAY	1.50	0.002	17.65	15.10
PRESBYTERIAN 1	025YEAR3DAY	3.25	0.001	18.02	15.95
PRESBYTERIAN 1	100YEAR3DAY	3.43	0.001	18.05	16.35
PRESBYTERIAN 2	010YEAR1DAY	0.38	0.000	17.65	15.10
PRESBYTERIAN 2	025YEAR3DAY	0.39	0.000	18.02	15.95
PRESBYTERIAN 2	100YEAR3DAY	0.40	0.000	18.05	16.35
PRESBYTERIAN 3	010YEAR1DAY	0.00	0.000	17.65	15.10
PRESBYTERIAN 3	025YEAR3DAY	6.38	0.007	18.02	15.95
PRESBYTERIAN 3	100YEAR3DAY	25.97	0.039	18.05	16.35
REGENCY PALMS 1	010YEAR1DAY	5.42	0.020	15.30	12.94
REGENCY PALMS 1	025YEAR3DAY	7.34	0.002	16.04	14.08
REGENCY PALMS 1	100YEAR3DAY	8.02	0.001	16.38	14.50
REGENCY PALMS 2	010YEAR1DAY	1.24	0.002	15.30	12.94
REGENCY PALMS 2	025YEAR3DAY	1.55	0.000	16.04	14.08
REGENCY PALMS 2	100YEAR3DAY	1.60	0.000	16.38	14.50
REGENCY PALMS 3	010YEAR1DAY	0.00	0.000	15.30	12.94
REGENCY PALMS 3	025YEAR3DAY	0.00	0.000	16.04	14.08
REGENCY PALMS 3	100YEAR3DAY	0.00	0.000	16.38	14.50
THE VILLAS 1	010YEAR1DAY	0.00	0.000	14.76	11.71
THE VILLAS 1	025YEAR3DAY	0.11	0.000	15.54	13.06
THE VILLAS 1	100YEAR3DAY	1.56	0.000	15.73	13.52

DANFORTH CREEK WATER WUALITY RETROFIT
CAPTEC PROJECT NO. 1207.26
POST DEVELOPMENT ICPR MODEL
LINK MAXIMUM REPORT

Name	Simulation	Max Flow cfs	Max Delta Q cfs	Max US Stage ft	Max DS Stage ft
THE VILLAS 2	010YEAR1DAY	1.52	0.003	14.76	11.71
THE VILLAS 2	025YEAR3DAY	1.85	0.000	15.54	13.06
THE VILLAS 2	100YEAR3DAY	1.93	0.000	15.73	13.52
THE VILLAS 3	010YEAR1DAY	0.00	0.000	14.76	11.71
THE VILLAS 3	025YEAR3DAY	0.00	0.000	15.54	13.06
THE VILLAS 3	100YEAR3DAY	0.00	0.000	15.73	13.52

Pine Ridge Village I
Basin Characteristics

Land Use	Acreage
Building	7.46
Other Impervious	15.02
Pervious	19.26
Lake	5.5
Total Area	47.24
% Pervious	40.77%
% Impervious	59.23%

Control Structure Info
Weir Width 4.62 Feet
Weir Elev. 7.0 NGVD
0.70'W X 3' H Rectangular Notch @ 4.00 NGVD
25 Year Overflow EL. 9.15

Soil Storage/ Curve Number
S = 3.33

CN = 75

Time of Concentration
Tc = 30

Stage-Storage

Pine Ridge Village I (SFWMD Permit # 43-00320-S)
LAND USE STAGE STORAGE DATA

Name	Open Space (ac)	Pavement (ac)	Lake (ac)		
Area	19.26	15.02	5.50		
S. Elev	10.00	10.00	4.00		
E. Elev	12.00	12.00			
Stage NGVD	Linear Storage ac-ft	Linear Storage ac-ft	Vert. Storage ac-ft	Total Attenuation Storage ac-ft	ICPR AREA INPUT ac
4.00	0.0	0.0	0.00	0.00	**5.50**
4.50	0.0	0.0	2.75	2.75	5.50
5.00	0.0	0.0	5.50	5.50	5.50
5.50	0.0	0.0	8.25	8.25	5.50
6.00	0.0	0.0	11.00	11.00	5.50
6.50	0.0	0.0	13.75	13.75	5.50
7.00	0.0	0.0	16.50	16.50	5.50
7.50	0.0	0.0	19.25	19.25	5.50
8.00	0.0	0.0	22.00	22.00	5.50
8.50	0.0	0.0	24.75	24.75	5.50
9.00	0.0	0.0	27.50	27.50	5.50
9.50	0.0	0.0	30.25	30.25	5.50
10.00	0.0	0.0	33.00	33.00	5.50
10.50	1.2	0.9	35.75	37.89	14.07
11.00	4.8	3.8	38.50	47.07	22.64
11.50	10.8	8.4	41.25	60.53	31.21
12.00	19.3	15.0	44.00	78.28	39.78
12.50	28.9	22.5	46.75	98.17	39.78
13.00	38.5	30.0	49.50	118.06	39.78

The Charter Club (Palm Ridge Village II)
Basin Characteristics

Land Use	Acreage
Building	7.00
Other Impervious	9.50
Pervious	22.11
Lake	3.00
Lake Bank	
Natural Area	
Total Area	41.61
% Pervious	60.35%
% Impervious	39.65%

Control Structure Info
Weir Width 3.0 Feet
Weir Elev. 7.0 NGVD
0.50'W X 1' H Inverted Triangle @ 4.00 NGVD

Outfalls to Village I

Soil Storage/ Curve Number
S = 4.7 Inches

CN = 68 Permitted

Time of Concentration
Tc = 30 Permitted

Stage-Storage

Palm Ridge Village II (SFWMD Permit # 43-00320-S)
LAND USE STAGE STORAGE DATA

Name	House Pad (ac)	50' Road R/W (ac)	Lake Bank 3 (ac)	Lake Bank 2 (ac)	Lake Bank 1 (ac)	Lake 1 (ac)	Lake 2 (ac)	Lake 3 (ac)		
Area	20.90	6.50	0.32	0.34	0.66	1.60	0.80	0.60		
S. Elev	11.00	10.00	4.00	4.00	4.00	4.00	4.00	4.00		
E. Elev	11.50	12.00	10.00	10.00	10.00					
Stage NGVD	Linear Storage ac-ft	Linear Storage ac-ft	Linear Storage ac-ft	Linear Storage ac-ft	Linear Storage ac-ft	Vert. Storage ac-ft	Vert. Storage ac-ft	Vert. Storage ac-ft	Total Attenuation Storage ac-ft	ICPR AREA INPUT ac
4.00	0.0	0.0	0.0	0.00	0.0	0.00	0.00	0.00	0.0	**3.00**
4.50	0.0	0.0	0.0	0.01	0.0	0.80	0.40	0.30	1.5	3.11
5.00	0.0	0.0	0.0	0.03	0.1	1.60	0.80	0.60	3.1	3.22
5.50	0.0	0.0	0.1	0.06	0.1	2.40	1.20	0.90	4.7	3.33
6.00	0.0	0.0	0.1	0.11	0.2	3.20	1.60	1.20	6.4	3.44
6.50	0.0	0.0	0.2	0.18	0.3	4.00	2.00	1.50	8.2	3.55
7.00	0.0	0.0	0.2	0.26	0.5	4.80	2.40	1.80	10.0	3.66
7.50	0.0	0.0	0.3	0.35	0.7	5.60	2.80	2.10	11.8	3.77
8.00	0.0	0.0	0.4	0.45	0.9	6.40	3.20	2.40	13.8	3.88
8.50	0.0	0.0	0.5	0.57	1.1	7.20	3.60	2.70	15.7	3.99
9.00	0.0	0.0	0.7	0.71	1.4	8.00	4.00	3.00	17.8	4.10
9.50	0.0	0.0	0.8	0.86	1.7	8.80	4.40	3.30	19.8	4.21
10.00	0.0	0.0	1.0	1.02	2.0	9.60	4.80	3.60	22.0	4.32
10.50	0.0	0.4	1.1	1.19	2.3	10.40	5.20	3.90	24.5	5.94
11.00	0.0	1.6	1.3	1.36	2.6	11.20	5.60	4.20	27.9	7.57
11.50	5.2	3.7	1.4	1.53	3.0	12.00	6.00	4.50	37.3	30.09
12.00	15.7	6.5	1.6	1.70	3.3	12.80	6.40	4.80	52.8	31.72
12.50	26.1	9.8	1.8	1.87	3.6	13.60	6.80	5.10	68.6	31.72
13.00	36.6	13.0	1.9	2.04	4.0	14.40	7.20	5.40	84.5	31.72

Monarch Country Club
Basin Characteristics

Land Use	Acreage
Building	5.00
Other Impervious	14.76
Open Space	74.76
Lake	11.10
Lake Banks	4.38
Total Area	110.00
% Pervious	71.95%
% Impervious	28.05%

Control Structure Info (VI-A)
Weir Width 2.0 Feet
Weir Elev. 8.72 NGVD
90 degree V Notch Top Width 2'
Invert El. = 6.00 NGVD

Soil Storage/ Curve Number
S = inches

CN = 85

Time of Concentration
Tc = 30

Stage-Storage

Monarch Country Club (SFWMD Permit # 43-00201-P)
LAND USE STAGE STORAGE DATA

Name	Open Space (ac)	Pavement (ac)	Lake Banks (ac)	Lake K (ac)	Lake I (ac)	Lake J (ac)	Lake E&H (ac)		
Area	74.76	14.76	4.38	0.88	2.16	2.32	5.74		
S. Elev	11.00	11.00	6	6.00	6.00	6.00	6.00		
E. Elev	13.00	13.00	12						
Stage NGVD	Linear Storage ac-ft	Linear Storage ac-ft	Linear Storage ac-ft	Vert. Storage ac-ft	Vert. Storage ac-ft	Vert. Storage ac-ft	Vert. Storage ac-ft	Total Attenuation Storage ac-ft	ICPR AREA INPUT ac
6.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	**11.10**
6.50	0.0	0.0	0.1	0.44	1.08	1.16	2.87	5.64	11.47
7.00	0.0	0.0	0.4	0.88	2.16	2.32	5.74	11.47	11.83
7.50	0.0	0.0	0.8	1.32	3.24	3.48	8.61	17.47	12.20
8.00	0.0	0.0	1.5	1.76	4.32	4.64	11.48	23.66	12.56
8.50	0.0	0.0	2.3	2.20	5.40	5.80	14.35	30.03	12.93
9.00	0.0	0.0	3.3	2.64	6.48	6.96	17.22	36.59	13.29
9.50	0.0	0.0	4.5	3.08	7.56	8.12	20.09	43.32	13.66
10.00	0.0	0.0	5.8	3.52	8.64	9.28	22.96	50.24	14.02
10.50	0.0	0.0	7.4	3.96	9.72	10.44	25.83	57.34	14.39
11.00	0.0	0.0	9.1	4.40	10.80	11.60	28.70	64.63	14.75
11.50	4.7	0.9	11.0	4.84	11.88	12.76	31.57	77.69	37.50
12.00	18.7	3.7	13.1	5.28	12.96	13.92	34.44	102.12	60.24
12.50	42.1	8.3	15.3	5.72	14.04	15.08	37.31	137.84	82.62
13.00	74.8	14.8	17.5	6.16	15.12	16.24	40.18	184.74	105.00
13.50	112.1	22.1	19.7	6.60	16.20	17.40	43.05	237.24	105.00
14.00	149.5	29.5	21.9	7.04	17.28	18.56	45.92	289.74	105.00
14.50	186.9	36.9	24.1	7.48	18.36	19.72	48.79	342.24	105.00
15.00	224.3	44.3	26.3	7.92	19.44	20.88	51.66	394.74	105.00

Gardens on Danforth (Basin 1)
Basin Characteristics

Land Use	Acreage
Building	4.94
Other Impervious	4.82
Pervious	12.38
Lake	2.48
Wetlands	
OtherAreas	
Total Area	24.62
% Pervious	50.28%
% Impervious	49.72%

Control Structure Info
Weir Width 3.33'X4.33' Horizontal
Weir Elev. 14.20' NGVD
1.42' TOP WIDTH, 0.8' H (83 Degree Triangular Orfice)
At Elevation 10.50 NGVD

Soil Storage/ Curve Number
S =

CN = 83.3 (Permitted)

Time of Concentration
Tc = 15

Stage-Storage

Gardesns on Danforth - Basin 1 (SFWMD Permit # 43-00561-S)
LAND USE STAGE STORAGE DATA

Name	Site	Lake Bank	Lake		
	(ac)	(ac)	(ac)		
Area	16.30	0.90	2.48		
S. Elev	13.50	10.50	10.50		
E. Elev	17.00	14.50			
Stage	Linear Storage	Linear Storage	Vert. Storage	Total Attenuation Storage	ICPR AREA INPUT
NGVD	ac-ft	ac-ft	ac-ft	ac-ft	ac
10.50	0.0	0.0	0.00	0.00	**2.48**
11.00	0.0	0.0	1.24	1.27	2.59
11.50	0.0	0.1	2.48	2.59	2.71
12.00	0.0	0.3	3.72	3.97	2.82
12.50	0.0	0.5	4.96	5.41	2.93
13.00	0.0	0.7	6.20	6.90	3.04
13.50	0.0	1.0	7.44	8.45	3.16
14.00	0.6	1.4	8.68	10.64	5.60
14.50	2.3	1.8	9.92	14.05	8.04
15.00	5.2	2.3	11.16	18.65	10.37
15.50	9.3	2.7	12.40	24.41	12.69
16.00	14.6	3.2	13.64	31.34	15.02
16.50	21.0	3.6	14.88	39.44	17.35
17.00	28.5	4.1	16.12	48.70	19.68
17.50	36.7	4.5	17.36	58.54	19.68
18.00	44.8	5.0	18.60	68.38	19.68
18.50	53.0	5.4	19.84	78.22	19.68
19.00	61.1	5.9	21.08	88.06	19.68
19.50	69.3	6.3	22.32	97.90	19.68
20.00	77.4	6.8	23.56	107.74	19.68

Gardens on Danforth (Basin 2)

Basin Characteristics

Land Use	Acreage
Building	0.84
Other Impervious	0.88
Pervious	2.49
Dry Detention	0.51
Wetlands	
OtherAreas	
Total Area	4.72
% Pervious	63.56%
% Impervious	36.44%

Control Structure Info

Weir Width 3.33'X4.33' Horizontal

Weir Elev. 14.8' NGVD

3" Dia Circular Orifice

At Elevation 10.50 NGVD

200 LF of 24" Dia ADS at Invert EL. 10.5

Soil Storage/ Curve Number

S =

CN = 79.4 (Permitted)

Time of Concentration

Tc = 15

Stage-Storage

Gardesns on Danforth - Basin 2 (SFWMD Permit # 43-00561-S)
LAND USE STAGE STORAGE DATA

Name	Site	Dry Detention Bank	Dry Detention		
	(ac)	(ac)	(ac)		
Area	3.37	0.24	0.27		
S. Elev	13.50	11.50	11.50		
E. Elev	16.50	15.00			
Stage	Linear Storage	Linear Storage	Vert. Storage	Total Attenuation Storage	ICPR AREA INPUT
NGVD	ac-ft	ac-ft	ac-ft	ac-ft	ac
11.50	0.0	0.0	0.00	0.00	**0.27**
12.00	0.0	0.0	0.14	0.14	0.30
12.50	0.0	0.0	0.27	0.30	0.34
13.00	0.0	0.1	0.41	0.48	0.37
13.50	0.0	0.1	0.54	0.68	0.41
14.00	0.1	0.2	0.68	1.03	1.00
14.50	0.6	0.3	0.81	1.68	1.60
15.00	1.3	0.4	0.95	2.63	2.20
15.50	2.2	0.5	1.08	3.87	2.76
16.00	3.5	0.7	1.22	5.39	3.32
16.50	5.1	0.8	1.35	7.19	3.88
17.00	6.7	0.9	1.49	9.13	3.88
17.50	8.4	1.0	1.62	11.07	3.88
18.00	10.1	1.1	1.76	13.01	3.88
18.50	11.8	1.3	1.89	14.95	3.88
19.00	13.5	1.4	2.03	16.89	3.88
19.50	15.2	1.5	2.16	18.83	3.88
20.00	16.9	1.6	2.30	20.77	3.88
20.50	18.5	1.7	2.43	22.71	3.88
21.00	20.2	1.9	2.57	24.65	3.88

Gardens on Danforth (Basin 3)

Basin Characteristics

Land Use	Acreage
Building	0.09
Other Impervious	0.64
Pervious	5.72
Dry Detention	0.22
Wetlands	
OtherAreas	
Total Area	6.67
% Pervious	89.06%
% Impervious	10.94%

Control Structure Info

Weir Width 3.33'X4.33' Horizontal

Weir Elev. 14.0' NGVD

3" Dia Circular Orifice

At Elevation 10.50 NGVD

30 LF of 24" ADS Invert EL. 9.50

Soil Storage/ Curve Number

S =

CN =

Time of Concentration

Tc = 15

Stage-Storage

Gardesns on Danforth - Basin 3 (SFWMD Permit # 43-00561-S)
LAND USE STAGE STORAGE DATA

Name	Site	Dry Detention Bank	Dry Detention		
	(ac)	(ac)	(ac)		
Area	6.36	0.11	0.11		
S. Elev	13.50	11.50	11.50		
E. Elev	16.50	15.00			
Stage	Linear Storage	Linear Storage	Vert. Storage	Total Attenuation Storage	ICPR AREA INPUT
NGVD	ac-ft	ac-ft	ac-ft	ac-ft	ac
11.50	0.0	0.0	0.00	0.00	**0.11**
12.00	0.0	0.0	0.06	0.06	0.13
12.50	0.0	0.0	0.11	0.13	0.14
13.00	0.0	0.0	0.17	0.20	0.16
13.50	0.0	0.1	0.22	0.28	0.17
14.00	0.3	0.1	0.28	0.64	1.25
14.50	1.1	0.1	0.33	1.53	2.32
15.00	2.4	0.2	0.39	2.96	3.40
15.50	4.2	0.2	0.44	4.93	4.46
16.00	6.6	0.3	0.50	7.42	5.52
16.50	9.5	0.4	0.55	10.45	6.58
17.00	12.7	0.4	0.61	13.74	6.58
17.50	15.9	0.5	0.66	17.03	6.58
18.00	19.1	0.5	0.72	20.32	6.58
18.50	22.3	0.6	0.77	23.61	6.58
19.00	25.4	0.6	0.83	26.90	6.58
19.50	28.6	0.7	0.88	30.19	6.58
20.00	31.8	0.7	0.94	33.48	6.58
20.50	35.0	0.8	0.99	36.77	6.58
21.00	38.2	0.9	1.05	40.06	6.58

The Villas
Basin Characteristics

Land Use	Acreage
Building	2.18
Other Impervious	1.00
Pervious	3.81
Lake	0.73
Preserve	2.20
Other ROW (Barry Ave)	0.20
Drainage Basin Area	7.72
Total Area	10.12
% Pervious	37.65%
% Impervious	38.64%

Control Structure Info
Weir Width 4.5 Feet
Weir Elev. 15.5 NGVD
0.50'W X 1' H Inverted Triangle @ 12.50 NGVD
Type 'E' Grate EL. 15.8
18 LF of 2' Dia RCP

Soil Storage/ Curve Number
S = 2 inches

CN = 83 Permitted

Time of Concentration
Tc = 12 Permitted

Stage-Storage

The Villas (SFWMD Permit # 43-00883-P)
LAND USE STAGE STORAGE DATA

Name	Open Space (ac)	Pavement (ac)	Lake Bank (ac)	Lake (ac)		
Area	3.50	1.00	0.31	0.73		
S. Elev	14.50	15.00	12.5	12.50		
E. Elev	17.00	17.00	15.5			
Stage NGVD	Linear Storage ac-ft	Linear Storage ac-ft	Linear Storage ac-ft	Vert. Storage ac-ft	Total Attenuation Storage ac-ft	ICPR AREA INPUT ac
12.50	0.0	0.0	0.0	0.00	0.00	**0.73**
13.00	0.0	0.0	0.0	0.37	0.38	0.78
13.50	0.0	0.0	0.1	0.73	0.78	0.83
14.00	0.0	0.0	0.1	1.10	1.21	0.89
14.50	0.0	0.0	0.2	1.46	1.67	0.94
15.00	0.2	0.0	0.3	1.83	2.32	1.69
15.50	0.7	0.1	0.5	2.19	3.42	2.69
16.00	1.6	0.3	0.6	2.56	5.00	3.64
16.50	2.8	0.6	0.8	2.92	7.06	4.59
17.00	4.4	1.0	0.9	3.29	9.59	5.54
17.50	6.1	1.5	1.1	3.65	12.36	5.54
18.00	7.9	2.0	1.2	4.02	15.13	5.54
18.50	9.6	2.5	1.4	4.38	17.90	5.54
19.00	11.4	3.0	1.6	4.75	20.67	5.54
19.50	13.1	3.5	1.7	5.11	23.44	5.54
20.00	14.9	4.0	1.9	5.48	26.21	5.54
20.50	16.6	4.5	2.0	5.84	28.98	5.54
21.00	18.4	5.0	2.2	6.21	31.75	5.54
21.50	20.1	5.5	2.3	6.57	34.52	5.54

Palm City Town Square
Basin Characteristics

Land Use	Acreage
Building	1.73
Other Impervious	4.79
Open Space	1.18
Preserve	0.92
Dry Detention	1.28
Other	0.29
Drainage Basin Area	10.19
Total Area	10.19
% Pervious	34.14%
% Impervious	65.86%

Control Structure Info

Weir Width 3.4"WX12"H

Weir Elev. 16.50 NGVD

0.25' dia bleeder @12' NGVD

E' Structure Overflow elevation 17.85

Soil Storage/ Curve Number

S =

CN = 82 Permitted

Time of Concentration

Tc = 10

Stage-Storage

Palm City Town Square (SFWMD Permit # 43-01457-P-02)
LAND USE STAGE STORAGE DATA

Name	Site	Preserve	Detention Bank	Detention Bank	Dry Detention		
	(ac)	(ac)	(ac)	(ac)	(ac)		
Area	6.07	0.92	0.755	0.08	0.614		
S. Elev	17.00	15.20	13	13	13.00		
E. Elev	18.50	17.00	17.85	16.5			
Stage	Linear Storage	Linear Storage	Linear Storage	Linear Storage	Vert. Storage	Total Attenuation Storage	ICPR AREA INPUT
NGVD	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac
13.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.61**
13.50	0.00	0.00	0.02	0.00	0.31	0.33	0.70
14.00	0.00	0.00	0.08	0.01	0.61	0.70	0.79
14.50	0.00	0.00	0.18	0.03	0.92	1.12	0.88
15.00	0.00	0.00	0.31	0.05	1.23	1.59	0.97
15.20	0.00	0.00	0.38	0.06	1.35	1.78	1.01
15.50	0.00	0.02	0.49	0.07	1.54	2.12	1.21
16.00	0.00	0.16	0.70	0.10	1.84	2.81	1.56
16.50	0.00	0.43	0.95	0.14	2.15	3.67	1.90
17.00	0.00	0.83	1.25	0.18	2.46	4.71	2.24
17.85	1.46	1.61	1.83	0.25	2.98	8.13	5.81
18.00	2.02	1.75	1.94	0.26	3.07	9.05	6.42
18.50	4.55	2.21	2.32	0.30	3.38	12.76	8.44
19.00	7.59	2.67	2.70	0.34	3.68	16.98	8.44
19.50	10.62	3.13	3.08	0.38	3.99	21.20	8.44
20.00	13.66	3.59	3.45	0.42	4.30	25.42	8.44
20.50	16.69	4.05	3.83	0.46	4.61	29.64	8.44
21.00	19.73	4.51	4.21	0.50	4.91	33.86	8.44
21.50	22.76	4.97	4.59	0.54	5.22	38.08	8.44

Regency Palms Nursing Center
Basin Characteristics

Land Use	Acreage
Building	1.35
Other Impervious	1.92
Pervious	4.74
Lake	1.08
Offsite Impervious (Barry Ave)	0.34
Offsite Pervious (Barry Ave)	0.50
Total Area	9.93
% Pervious	52.77%
% Impervious	47.23%

Control Structure Info

Weir Width 4.0 Feet Height 0.3'
Weir Elev. 14.27 NGVD
42 Degree V Notch (0.77' Opening) at
At Elevation 13.50' NGVD
Danforth Creek via SR 714 roadside Swale

Soil Storage/ Curve Number

S =

CN = 86.53 Permitted

Time of Concentration

Tc = 10

Stage-Storage

Regency Palms Nursing Center (SFWMD Permit # 43-00712-S)
LAND USE STAGE STORAGE DATA

Name	Open Space (ac)	Pavement (ac)	Lake Bank (ac)	Lake Bank (ac)	Lake (ac)		
Area	4.74	1.92	0.26	0.48	1.08		
S. Elev	16.50	16.50	13.50	13.50	13.50		
E. Elev	19.20	19.20	16.50	17.00			
Stage NGVD	Linear Storage ac-ft	Linear Storage ac-ft	Linear Storage ac-ft	Linear Storage ac-ft	Vert. Storage ac-ft	Total Attenuation Storage ac-ft	ICPR AREA INPUT ac
13.50	0.0	0.0	0.00	0.00	0.00	0.00	**1.08**
14.00	0.0	0.0	0.01	0.02	0.54	0.57	1.19
14.50	0.0	0.0	0.04	0.07	1.08	1.19	1.30
15.00	0.0	0.0	0.10	0.15	1.62	1.87	1.42
15.50	0.0	0.0	0.17	0.27	2.16	2.61	1.53
16.00	0.0	0.0	0.27	0.43	2.70	3.40	1.64
16.50	0.0	0.0	0.39	0.62	3.24	4.25	1.75
17.00	0.2	0.1	0.52	0.84	3.78	5.45	3.05
17.50	0.9	0.4	0.65	1.08	4.32	7.28	4.29
18.00	2.0	0.8	0.78	1.32	4.86	9.74	5.52
18.50	3.5	1.4	0.91	1.56	5.40	12.80	6.75
19.00	5.5	2.2	1.04	1.80	5.94	16.49	7.99
19.20	6.4	2.6	1.09	1.90	6.16	18.14	8.48
19.50	7.8	3.2	1.17	2.04	6.48	20.68	8.48
20.00	10.2	4.1	1.30	2.28	7.02	24.92	8.48
20.50	12.6	5.1	1.43	2.52	7.56	29.16	8.48
21.00	14.9	6.0	1.56	2.76	8.10	33.40	8.48
21.50	17.3	7.0	1.69	3.00	8.64	37.64	8.48
22.00	19.7	8.0	1.82	3.24	9.18	41.88	8.48

Hammock Creek North Basin
Basin Characteristics

Land Use	Acreage
Building	30.81
Other Impervious	10.97
Pervious	37.28
Lake	18.82
Wetlands	20.74
OtherAreas	86.05
Total Area	204.67
% Pervious	18.21%
% Impervious	29.61%

Control Structure Info
Weir Width 4.0 Feet
Weir Elev. 17.50 NGVD
3'W x 1' H Bleeder
At Elevation 13.00' NGVD
50 LF of 4' DIA CAP Culvert

Soil Storage/ Curve Number
S = 0.97

CN = 91

Time of Concentration
Tc = 30

Stage-Storage

Hammock Creek North Basin (SFWMD Permit # 43-00825-S)
LAND USE STAGE STORAGE DATA

Name	Site	Golf Storage	Lake	Wetland W-1	Wetland W-3	Wetland W-4	Wetland W-5	Wetland W-6		
	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)		
Area	59.78	88.96	18.50	1.40	2.78	10.64	1.03	1.39		
S. Elev	17.00	17.00	13.00	16.60	17.20	16.20	16.50	16.40		
E. Elev	18.50	18.50								
Stage	Linear Storage	Linear Storage	Vert. Storage	Vert. Storage	Vert. Storage	Vert. Storage	Vert. Storage	Vert. Storage	Total Attenuation Storage	ICPR AREA INPUT
NGVD	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac
13.00	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**18.50**
13.50	0.0	0.0	9.25	0.00	0.00	0.00	0.00	0.00	9.25	18.50
14.00	0.0	0.0	18.50	0.00	0.00	0.00	0.00	0.00	18.50	18.50
14.50	0.0	0.0	27.75	0.00	0.00	0.00	0.00	0.00	27.75	18.50
15.00	0.0	0.0	37.00	0.00	0.00	0.00	0.00	0.00	37.00	18.50
15.50	0.0	0.0	46.25	0.00	0.00	0.00	0.00	0.00	46.25	18.50
16.00	0.0	0.0	55.50	0.00	0.00	0.00	0.00	0.00	55.50	18.50
16.19	0.0	0.0	59.02	0.00	0.00	0.00	0.00	0.00	59.02	18.50
16.20	0.0	0.0	59.20	0.00	0.00	0.00	0.00	0.00	59.20	29.14
16.39	0.0	0.0	62.72	0.00	0.00	2.02	0.00	0.00	64.74	29.14
16.40	0.0	0.0	62.90	0.00	0.00	2.13	0.00	0.00	65.03	30.53
16.49	0.0	0.0	64.57	0.00	0.00	3.09	0.00	0.13	67.78	30.53
16.50	0.0	0.0	64.75	0.00	0.00	3.19	0.00	0.14	68.08	31.56
16.59	0.0	0.0	66.42	0.00	0.00	4.15	0.09	0.26	70.92	31.56
16.60	0.0	0.0	66.60	0.00	0.00	4.26	0.10	0.28	71.24	32.96
17.00	0.0	0.0	74.00	0.56	0.00	8.51	0.52	0.83	84.42	32.96
17.19	0.7	1.1	77.52	0.83	0.00	10.53	0.71	1.10	92.47	51.80
17.20	0.8	1.2	77.70	0.84	0.00	10.64	0.72	1.11	93.00	55.57
17.50	5.0	7.4	83.25	1.26	0.83	13.83	1.03	1.53	114.13	85.32
18.00	19.9	29.7	92.50	1.96	2.22	19.15	1.55	2.22	169.19	134.90
18.50	44.8	66.7	101.75	2.66	3.61	24.47	2.06	2.92	249.03	184.48
19.00	74.7	111.2	111.00	3.36	5.00	29.79	2.58	3.61	341.27	184.48
19.50	104.6	155.7	120.25	4.06	6.39	35.11	3.09	4.31	433.51	184.48
20.00	134.5	200.2	129.50	4.76	7.78	40.43	3.61	5.00	525.75	184.48
20.50	164.4	244.6	138.75	5.46	9.17	45.75	4.12	5.70	617.99	184.48

Palm City Presbyterian Church
Basin Characteristics

Land Use	Acreage
Building	0.52
Other Impervious	1.81
Open Space	6.27
Lake	0.18
Dry Detention	0.64
Total Area	9.42
% Pervious	66.56%
% Impervious	26.65%

Control Structure Info

Weir Width 1.15 Feet

Weir Elev. 17.1 NGVD

0.25' dia bleeder @15' NGVD

Structure Overflow elevation 18.05

21 LF of 15" Dia RCP

Soil Storage/ Curve Number

S = 0.86 inches

CN = 92 Permitted

Time of Concentration

Tc = 10

Stage-Storage

Palm City Presbyterian Church (SFWMD Permit # 43-01223-P)
LAND USE STAGE STORAGE DATA

Name	Open Space (ac)	Pavement (ac)	Detention Bank (ac)	Lake (ac)	Dry Detention (ac)		
Area	6.27	1.81	0.17	0.18	0.47		
S. Elev	16.50	18.00	16	15.00	16.00		
E. Elev	19.00	19.50	17.5				
Stage NGVD	Linear Storage ac-ft	Linear Storage ac-ft	Linear Storage ac-ft	Vert. Storage ac-ft	Vert. Storage ac-ft	Total Attenuation Storage ac-ft	ICPR AREA INPUT ac
15.00	0.0	0.0	0.0	0.00	0.00	0.00	**0.18**
15.50	0.0	0.0	0.0	0.09	0.00	0.09	0.18
15.99	0.0	0.0	0.0	0.18	0.00	0.18	0.18
16.00	0.0	0.0	0.0	0.18	0.00	0.18	0.65
16.50	0.0	0.0	0.0	0.27	0.24	0.52	0.71
17.00	0.3	0.0	0.1	0.36	0.47	1.20	2.02
17.50	1.3	0.0	0.1	0.45	0.71	2.54	3.33
18.00	2.8	0.0	0.2	0.54	0.94	4.51	4.58
18.50	5.0	0.2	0.3	0.63	1.18	7.27	6.44
19.00	7.8	0.6	0.4	0.72	1.41	10.95	8.30
19.50	11.0	1.4	0.5	0.81	1.65	15.25	8.90
20.00	14.1	2.3	0.6	0.90	1.88	19.70	8.90
20.50	17.2	3.2	0.6	0.99	2.12	24.15	8.90
21.00	20.4	4.1	0.7	1.08	2.35	28.60	8.90
21.50	23.5	5.0	0.8	1.17	2.59	33.05	8.90
22.00	26.6	5.9	0.9	1.26	2.82	37.50	8.90
22.50	29.8	6.8	1.0	1.35	3.06	41.95	8.90
23.00	32.9	7.7	1.1	1.44	3.29	46.40	8.90
23.50	36.1	8.6	1.1	1.53	3.53	50.85	8.90

Palm City Business Park
Basin Characteristics

Land Use	Acreage
Building	2.12
Other Impervious	4.55
Pervious	1.72
Dry Detention	0.89
Dry Detention Bank	0.67
Natural Area	2.83
Total Area	12.78
% Pervious	47.81%
% Impervious	52.19%

Control Structure Info
Weir Width 3.0 Feet
Weir Elev. 17.76 NGVD
13.5"W X 3" H Notch @ 16.60 NGVD
3" dia circular orifice
At Elevation 14.50' NGVD

Soil Storage/ Curve Number
S =

CN = 77 Permitted

Time of Concentration
Tc = 80 Permitted

Stage-Storage

Palm City Business Park (SFWMD Permit # 43-01540-P)
LAND USE STAGE STORAGE DATA

Name	Open Space (ac)	Pavement (ac)	Flood Compensation (ac)	Dry Detention Bank (ac)	Dry Detention (ac)	Flood Compensation (ac)		
Area	4.55	4.55	0.40	0.27	0.72	0.17		
S. Elev	17.00	17.40	15.50	15.50	15.50	15.50		
E. Elev	17.50	19.00	17.50	18.00				
Stage NGVD	Linear Storage ac-ft	Linear Storage ac-ft	Linear Storage ac-ft	Linear Storage ac-ft	Vert. Storage ac-ft	Vert. Storage ac-ft	Total Attenuation Storage ac-ft	ICPR AREA INPUT ac
15.50	0.0	0.0	0.00	0.0	0.00	0.00	0.00	**0.89**
16.00	0.0	0.0	0.03	0.0	0.36	0.09	0.48	1.04
16.50	0.0	0.0	0.10	0.1	0.72	0.17	1.04	1.20
17.00	0.0	0.0	0.23	0.1	1.08	0.26	1.68	1.35
17.40	0.7	0.0	0.36	0.2	1.37	0.32	2.97	5.12
17.50	1.1	0.0	0.40	0.2	1.44	0.34	3.55	6.34
18.00	3.4	0.5	0.60	0.3	1.80	0.43	7.09	7.82
18.50	5.7	1.7	0.80	0.5	2.16	0.51	11.35	9.24
19.00	8.0	3.6	1.00	0.6	2.52	0.60	16.33	10.66
19.50	10.2	5.9	1.20	0.7	2.88	0.68	21.66	10.66
20.00	12.5	8.2	1.40	0.9	3.24	0.77	26.99	10.66
20.50	14.8	10.5	1.60	1.0	3.60	0.85	32.32	10.66
21.00	17.1	12.7	1.80	1.1	3.96	0.94	37.65	10.66
21.50	19.3	15.0	2.00	1.3	4.32	1.02	42.98	10.66
22.00	21.6	17.3	2.20	1.4	4.68	1.11	48.31	10.66
22.50	23.9	19.6	2.40	1.6	5.04	1.19	53.64	10.66
23.00	26.2	21.8	2.60	1.7	5.40	1.28	58.97	10.66
23.50	28.4	24.1	2.80	1.8	5.76	1.36	64.30	10.66
24.00	30.7	26.4	3.00	2.0	6.12	1.45	69.63	10.66

Oakbrook Estates
Basin Characteristics

Land Use	Acreage
Residential Impervious	12.6
Roadway Impervious	6.40
Pervious	205.20
Lake/Wetlands	33
Drainage Ditches	20.8
OtherAreas	
Total Area	278.00
% Pervious	73.81%
% Impervious	26.19%

Control Structure Info
Weir Width 8.0 Feet
Weir Elev. 23.9 NGVD
48" W Bleeder
At Elevation 23.00' NGVD
30 LF of 2.5' DIA DISCHARGE PIPE

Soil Storage/ Curve Number
S = 0.78

CN = 93

Time of Concentration
Tc = 60

Stage-Storage

Oakbrook Estates (SFWMD Permit # 43-00160-S)
LAND USE STAGE STORAGE DATA

Name	Area 1 (ac)	Area 2 (ac)	Area 3 (ac)	Lake&Wetlands (ac)		
Area	126.00	107.00	12.00	33.00		
S. Elev	23.00	24.00	25.00	23.00		
E. Elev	24.00	25.00	26.00			
Stage NGVD	Linear Storage ac-ft	Linear Storage ac-ft	Linear Storage ac-ft	Vert. Storage ac-ft	Total Attenuation Storage ac-ft	ICPR AREA INPUT ac
23.00	0.0	0.0	0.0	0.00	0.00	**33.00**
23.10	0.6	0.0	0.0	3.30	3.93	45.60
23.20	2.5	0.0	0.0	6.60	9.12	58.20
23.30	5.7	0.0	0.0	9.90	15.57	70.80
23.40	10.1	0.0	0.0	13.20	23.28	83.40
23.50	15.8	0.0	0.0	16.50	32.25	96.00
23.60	22.7	0.0	0.0	19.80	42.48	108.60
23.70	30.9	0.0	0.0	23.10	53.97	121.20
23.80	40.3	0.0	0.0	26.40	66.72	133.80
23.90	51.0	0.0	0.0	29.70	80.73	146.40
24.00	63.0	0.0	0.0	33.00	96.00	159.00
24.10	75.6	0.5	0.0	36.30	112.44	169.70
24.20	88.2	2.1	0.0	39.60	129.94	180.40
24.30	100.8	4.8	0.0	42.90	148.52	191.10
24.40	113.4	8.6	0.0	46.20	168.16	201.80
24.50	126.0	13.4	0.0	49.50	188.88	212.50
24.60	138.6	19.3	0.0	52.80	210.66	223.20
24.70	151.2	26.2	0.0	56.10	233.52	233.90
24.80	163.8	34.2	0.0	59.40	257.44	244.60
24.90	176.4	43.3	0.0	62.70	282.44	255.30
25.00	189.0	53.5	0.0	66.00	308.50	266.00
25.10	201.6	64.2	0.1	69.30	335.16	267.20
25.20	214.2	74.9	0.2	72.60	361.94	268.40
25.30	226.8	85.6	0.5	75.90	388.84	269.60
25.40	239.4	96.3	1.0	79.20	415.86	270.80
25.50	252.0	107.0	1.5	82.50	443.00	272.00
25.60	264.6	117.7	2.2	85.80	470.26	273.20
25.70	277.2	128.4	2.9	89.10	497.64	274.40
25.80	289.8	139.1	3.8	92.40	525.14	275.60
25.90	302.4	149.8	4.9	95.70	552.76	276.80
26.00	315.0	160.5	6.0	99.00	580.50	278.00

Immanuel Lutheran Church
Basin Characteristics

Land Use	Acreage
Building (on Detention)	0.50
Other Impervious+Offsite	1.15
Open Space	2.27
Lake	0.00
Dry Detention	0.72
Preserve (non-basin)	0.30
Basin Area	4.14
Total Area	4.32
% Pervious	52.55%
% Impervious	38.19%

Control Structure Info

Weir Width 4.0 Feet 1' H
Weir Elev. 8.0 NGVD
0.25' dia bleeder @4' NGVD
0.5WX2.4'H Notch @5.6' NGVD
18 LF of 24" Dia CMP

Soil Storage/ Curve Number

S = 4.49 inches

CN = 69 Permitted

Time of Concentration

Tc = 10

Stage-Storage

Immanuel Lutheran Church (SFWMD Permit # 43-00201-S-06)
LAND USE STAGE STORAGE DATA

Name	Open Space (ac)	Pavement (ac)	Detention Bank (ac)	Dry Detention (ac)
Area	2.27	1.15	0.34	0.38
S. Elev	9.00	8.60	5.00	5.00
E. Elev	10.00	9.60	8.00	
(A/DZ)	2.27	1.15	0.11	

STEP SIZE
START STAGE

Stage NGVD	Linear Storage ac-ft	Linear Storage ac-ft	Linear Storage ac-ft	Vert. Storage ac-ft	Total Attenuation Storage ac-ft	ICPR AREA INPUT ac
5.00	0.0	0.0	0.0	0.00	0.00	**0.38**
5.50	0.0	0.0	0.0	0.19	0.20	0.44
6.00	0.0	0.0	0.1	0.38	0.44	0.49
6.50	0.0	0.0	0.1	0.57	0.70	0.55
7.00	0.0	0.0	0.2	0.76	0.99	0.61
7.50	0.0	0.0	0.4	0.95	1.30	0.66
8.00	0.0	0.0	0.5	1.14	1.65	0.72
8.50	0.0	0.0	0.7	1.33	2.01	0.72
8.60	0.0	0.0	0.7	1.37	2.08	0.72
9.00	0.0	0.1	0.9	1.52	2.46	1.18
9.50	0.3	0.5	1.0	1.71	3.48	2.89
9.60	0.4	0.6	1.1	1.75	3.79	3.23
10.00	1.1	1.0	1.2	1.90	5.26	4.14
10.50	2.3	1.6	1.4	2.09	7.33	4.14
11.00	3.4	2.2	1.5	2.28	9.40	4.14
11.50	4.5	2.8	1.7	2.47	11.47	4.14
12.00	5.7	3.3	1.9	2.66	13.54	4.14
12.50	6.8	3.9	2.0	2.85	15.61	4.14
13.00	7.9	4.5	2.2	3.04	17.68	4.14

The Humane Society of Treasure Coast
Basin Characteristics

Land Use	Acreage
Building	0.64
Other Impervious	1.19
Pervious	3.78
Lake	1.48
Dry detention	0.35
Borrow Pit	0.77
Total Area	8.21
Other Non Development	7.00
% Pervious	50.30%
% Impervious	49.70%

Control Structure Info

Weir Width 0.8 Feet
Weir Elev. 16.25 NGVD
0.25' dia circular orifice
At Elevation 15.00' NGVD
20 LF of 18" dia RCP

Soil Storage/ Curve Number

S = 0.95 Inches

CN = 91.32 Permitted

Time of Concentration

Tc = 10

Stage-Storage

Humane Society of Treasure Coast (SFWMD Permit # 43-00700-S)
LAND USE STAGE STORAGE DATA

Name	Site	Dry Detention Bank	Lake Bank	Lake	Dry Detention		
	(ac)	(ac)	(ac)	(ac)	(ac)		
Area	4.97	0.28	0.77	0.71	0.07		
S. Elev	17.50	16.50	15.00	15.00	16.50		
E. Elev	21.00	17.50	17.50				
Stage	Linear Storage	Linear Storage	Linear Storage	Vert. Storage	Vert. Storage	Total Attenuation Storage	ICPR AREA INPUT
NGVD	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac
15.00	0.0	0.00	0.00	0.00	0.00	0.00	**0.71**
15.50	0.0	0.00	0.04	0.36	0.00	0.39	0.86
16.00	0.0	0.00	0.15	0.71	0.00	0.86	1.02
16.49	0.0	0.00	0.34	1.06	0.00	1.40	1.17
16.50	0.0	0.00	0.35	1.07	0.00	1.41	1.24
17.00	0.0	0.04	0.62	1.42	0.04	2.11	1.54
17.50	0.0	0.14	0.96	1.78	0.07	2.95	1.83
18.00	0.2	0.28	1.35	2.13	0.11	4.04	2.54
18.50	0.7	0.42	1.73	2.49	0.14	5.49	3.25
19.00	1.6	0.56	2.12	2.84	0.18	7.29	3.96
19.50	2.8	0.70	2.50	3.20	0.21	9.45	4.67
20.00	4.4	0.84	2.89	3.55	0.25	11.96	5.38
20.50	6.4	0.98	3.27	3.91	0.28	14.83	6.09
21.00	8.7	1.12	3.66	4.26	0.32	18.05	6.80
21.50	11.2	1.26	4.04	4.62	0.35	21.45	6.80
22.00	13.7	1.40	4.43	4.97	0.39	24.85	6.80
22.50	16.2	1.54	4.81	5.33	0.42	28.25	6.80
23.00	18.6	1.68	5.20	5.68	0.46	31.65	6.80
23.50	21.1	1.82	5.58	6.04	0.49	35.05	6.80

D19-STA

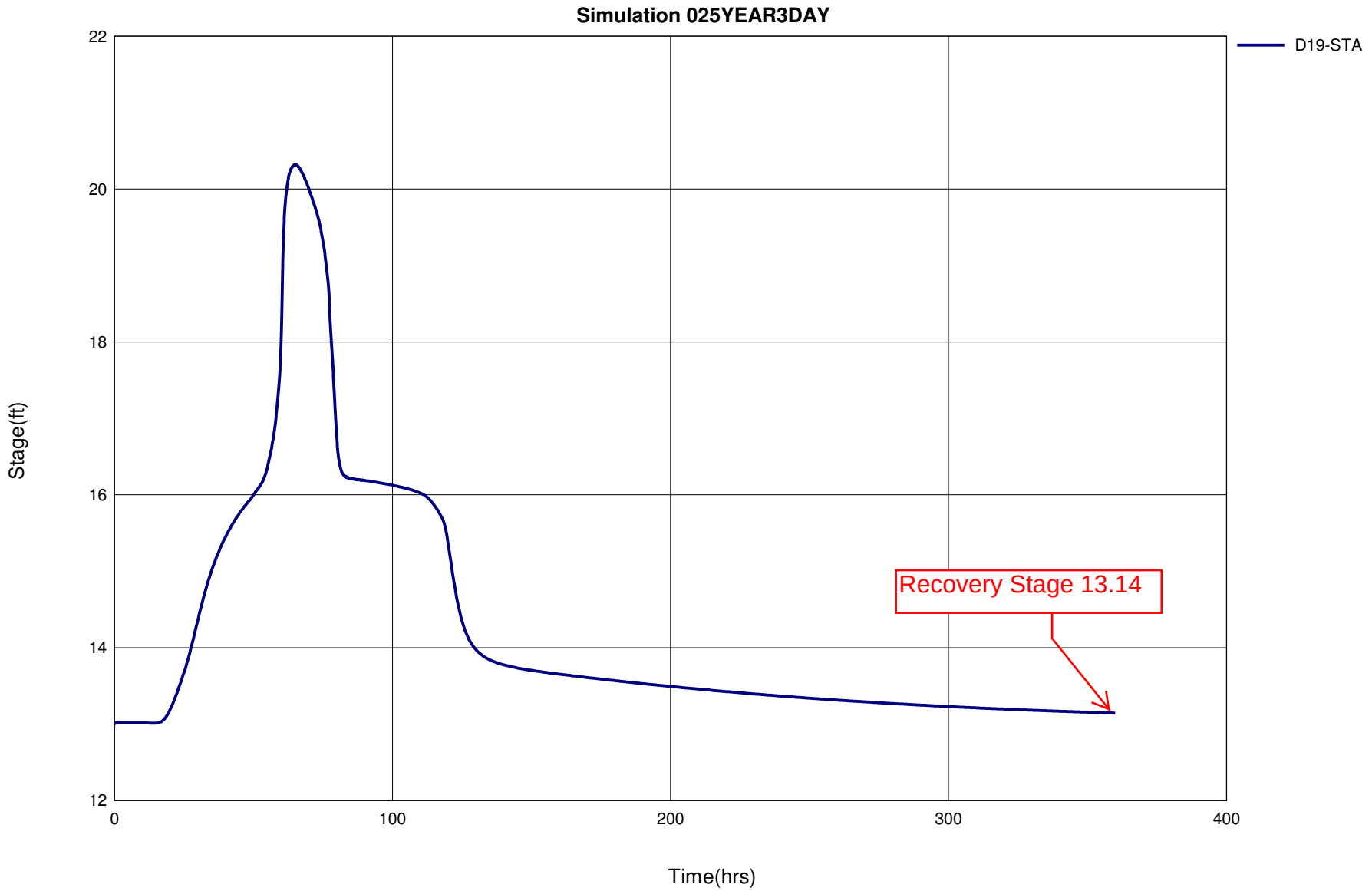
Basin Characteristics

Stage-Storage

DANFORTH CREEK STA BASIN
POST-DEVELOPMENT STAGE STORAGE DATA

Name	Bank (ac)	STA (ac)
Area	1.68	8.61
S. Elev	13.00	13.00
E. Elev	18.50	
(A/DZ)	0.31	

Stage **NGVD**	Linear Storage ac-ft	Vert. Storage ac-ft	Total Attenuation Storage ac-ft	ICPR AREA INPUT ac
13.00	0.00	0.00	0.00	**8.61**
13.50	0.04	4.31	4.34	8.76
14.00	0.15	8.61	8.76	8.92
14.50	0.34	12.92	13.26	9.07
15.00	0.61	17.22	17.83	9.22
15.50	0.95	21.53	22.48	9.37
16.00	1.37	25.83	27.20	9.53
16.50	1.87	30.14	32.01	9.68
17.00	2.44	34.44	36.88	9.83
17.50	3.09	38.75	41.84	9.98
18.00	3.82	43.05	46.87	10.14
18.50	4.62	47.36	51.98	10.29
19.00	5.46	51.66	57.12	10.29
19.50	6.30	55.97	62.27	10.29
20.00	7.14	60.27	67.41	10.29
20.50	7.98	64.58	72.56	10.29


Simulation 025YEAR3DAY
D19-STA
Stage(ft)
22
20
18
16
14
12
0
100
200
300
400
Time(hrs)
Recovery Stage 13.14

Danforth Creek Stormwater Quality Retrofit
Node Recovery Data

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
025YEAR3DAY	D19-STA	DANFORTH	359.08	13.15	19.00	383111	0.94	1.06	1636.1	1634.4
025YEAR3DAY	D19-STA	DANFORTH	359.58	13.14	19.00	383103	0.93	1.05	1636.2	1634.4
025YEAR3DAY	D19-STA	DANFORTH	360.00	13.14	19.00	383096	0.93	1.05	1636.2	1634.5